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To my parents, **J.D.** and **Elinor Myers,** and to my friend **Mona Reeva,** whose support and encouragement was essential to its completion

PREFACE

The entire Droplet Model approach was conceived and carried out in collaboration with W. J. Swiatecki, whose influence is to be seen in every part of the work. The theory described here and the table of nuclear properties that appears at the end are the culmination of a series of developments that we have undertaken together off and on over the last twelve years. During that time the Droplet Model has found application to a broad range of static (and more recently dynamic) macroscopic nuclear properties.

The text begins with a historical introduction that briefly traces the development of the Droplet Model and references are given to the earlier work. After that the Droplet Model itself is presented and the values of the coefficients are given. In the following section descriptions are given, of the other terms which must be added to obtain a complete expression for the prediction of atomic mass defects. These sections are all quite brief with the exception of the one in which the "Wigner term" is described. This section (contributed by W. J. Swiatecki) contains a somewhat fuller discussion of our form of the Wigner term than might be thought appropriate in view of the many standard expositions of Wigner's supermultiplet theory and his "Uniform Model" of nuclear masses. One reason for this is that the physical content of our "Matching Energy" Wigner term does not appear to be identical to the usual one. Another reason is that this approach enables us to give a discussion of the shape dependence of the Matching Energy, which we do not recall having seen provided for the conventional Wigner term.

After the atomic mass expression has been fully described there is a section which compares predictions of the model with measured masses, fission barriers, deformations and radii. The mass comparisons are made in a number of different ways in order to best display the deviations that remain.

There are a few closing remarks at the end, and these are followed by a key to the table of nuclear properties and the table itself. The key to the table contains explainations of the various entries and in some cases the expressions that were used in their calculation.

I want to thank all my colleagues who have waited so patiently for the completition of this work. Their continued encouragement was appreciated when I was engaged in writing computer programs, making figures, etc., and all the other dull and uninteresting work that was necessary in order to present the material in the most useful manner.

During the years spent in compiling this work, the author benefitted substantially from discussions with E. R. Hilf, J. R. Nix, P. A. Seeger, and C. F. Tsang. Important contributions were also made by H. von Groote, R. W. Hasse, P. Möller, S. G. Nilsson, and D. Sprung. In connection with the section on the "Wigner term" W. J. Swiatecki has asked me to acknowledge a number of valuable discussions he had with M. G. Redlich. Finally, the author wishes to acknowledge the editorial assistance of Charles Pezzotti and Catherine Webb and the computer programming assistance provided by Tom Strong.

William D. Myers

Berkeley, California
March, 1977

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I. INTRODUCTION

The Droplet Model was conceived in order to effect a systematic refinement of the liquid drop model originated by von Weizsäcker.[1] Earlier developments can be found in the works of Bethe,[2] Bohr and Wheeler,[3] Feenberg,[4] and Green.[5] More recent results are contained in the proceedings of the five international conferences on nuclear masses,[6-9] and in the proceedings of three conferences on nuclei far from stability.[10,11] The work that intially stimulated our interest in improving the liquid drop model and some of our preliminary results are contained in Refs. 12-17.

Improved methods for describing average nuclear properties are relevant now because of the recent advances that have been made in our understanding of nuclear masses (and macroscopic properties in general) in terms of a two-part approach. This approach considers nuclear properties, such as masses or density distributions, as being made up of a smooth macroscopic part and an oscillating microscopic part. Initially the idea of a "two-part approach" was confined to the simple addition of empirical corrections to nuclear mass formulas.[18-21] These corrections were found to be necessary because of fluctuations in the masses due to variations in the nuclear single-particle level densities (such as gaps at magic numbers).

Swiatecki[12-14] developed a method for calculating the shell corrections that is based on a physical model whose main feature is the deviation of the actual nuclear energy level distribution from uniformity. In this approach the relatively minor bunching together of levels that produces gaps at magic numbers gives rise to nuclear mass deviations that correspond closely to those observed. Eventually, a sound physical basis for the two-part approach was provided by the development of Strutinsky's shell correction method.[22] In this method (see Refs. 22-24 for example) the oscillations observed in nuclear energies and densities are related to the properties of the separate particles of the system, which are assumed to be essentially independent and to move in a common nuclear potential.

Progress has also been made in our understanding of the purely macroscopic aspects of nuclear properties, and three items are of special significance for the discussion in the following sections.

The first development of importance has been the clarification of the role of the liquid drop model as an approximate solution of the nuclear many-body problem.[25,26] For saturating leptodermous* systems like nuclei, we are now aware that the liquid drop

*Leptodermous – having a thin skin. This term has beem employed by Tsang, Swiatecki and others[26,27] for the depiction of distributions that are essentially homogenous except at the surface. Its application implies that all deviations from bulk behavior are confined to a relatively thin surface region.

model potential energy may be thought of simply as a first-order description in terms of two small expansion parameters: the ratio of the surface diffuseness to the size of the system (proportional to $A^{-1/3}$), and the square of the relative neutron excess I^2, where I equals $(N - Z)/A$.

The second item contributing to our improved understanding of macroscopic properties is the use of the Thomas-Fermi method in self-consistent calculations of nuclear properties.[15] Such calculations are easily performed, and they provide a means of relating many macroscopic properties to their microscopic origin. Of special significance to us here is the fact that the development of the Droplet Model was supported in a number of ways by Thomas-Fermi calculations, like those of Seyler and Blanchard.[15]

The third item of importance in our improved understanding of macroscopic properties is the Droplet Model itself. This model is a uniform improvement of the liquid drop model that carries the leptodermous expansion to one higher order so as to include mass formula terms in $A^{1/3}$, $I^2 A^{2/3}$, and $I^4 A$.

In our earlier work[13,14] we had fitted a more or less conventional liquid drop model mass formula to the smooth mass surface that results when shell corrections, of the type proposed by Swiatecki,[12] are applied to the experimental masses. Besides the usual liquid drop model terms (which are the volume energy, symmetry energy, surface energy, Coulomb energy, and the empirical even-odd mass correction) a surface symmetry energy and Coulomb diffuseness correction were used. Liquid drop model fission barriers were also compared with experiment as a part of the fitting procedure. The inclusion of fission barriers permits more accurate determination of the separate values of the Coulomb and surface energy coefficients, which are highly correlated in a fit to ground state masses alone. We found that the Coulomb energy coefficient (which is inversely proportional to the nuclear radius constant r_0) determined in this way differs by 6 - 10% from that obtained in electron scattering measurements of nuclear sizes.[29] A real discrepancy was seen to exist since both methods were expected to be accurate to one or two percent.

In Ref. 15 we undertook a study to determine whether this discrepancy might not be due to the omission of higher order terms (such as compressibility and surface curvature effects) in the liquid drop model. Many of these terms had previously been considered one at a time. For example, the surface symmetry term had been considered in Refs. 18, 19, 30 and the compressibility and Coulomb redistribution in Refs. 31 and 32. Other Coulomb corrections such as the exchange correction[2] and surface diffuseness correction[17] had also been used before. The curvature correction to the surface energy was discussed in Refs. 33 and 34.

The Droplet Model was developed in the course of our investigation of these higher order terms, and come preliminary applications of it have already been made. In Ref. 35 the coefficients that appear in the model were determined by fitting to experimental nuclear masses. The model found other applications in predicting isotope shifts[36] and in providing a basis for predicting single particle potential well parameters.[37] Even more recently the first application of the model to a dynamical process has been made in order to provide an improved macroscopic description of the nuclear giant-dipole resonance.[38] After the shape dependence of the Droplet Model had been worked out it became possible to investigate the implications of this model for the fission process.[39] A revised version of the Droplet Model shape dependence is contained in Ref. 16, along with a preliminary set of the adjustable coefficients.

The purpose of the present work is to redetermine these coefficients by fitting to masses, fission barriers, and radii. The predictions of the model are then compared with experiment to give an indication of its range of applicability. One gratifying result of this work is the apparent resolution of the radius constant discrepancy metioned above. The value of this constant obtained in the Droplet Model fit no longer differs from that obtained in electron scattering experiments.

II. THE DROPLET MODEL

The Droplet Model binding energy expression for spherical shapes was first derived in Ref. 15. More recently a general derivation was given in Ref. 16, where the model was extended to include arbitrary shapes. The latter work should be referred to if the reader desires a more detailed discussion than that given in the brief outline below.

The feature that distinguishes the Droplet Model from the standard liquid drop model is that the neutron and proton density distributions are allowed to vary so as to minimize the total nuclear energy. This additional freedom leads to the following expression for the binding energy:

$$\begin{aligned} E(N,Z;\text{shape}) = & \left[-a_1 + J\bar{\delta}^2 - \frac{1}{2}K\bar{\epsilon}^2 + \frac{1}{2}M\bar{\delta}^4\right] A \\ & + \left[a_2 + \frac{9}{4}(J^2/Q)\bar{\delta}^2\right] A^{2/3} B_S + a_3 A^{1/3} B_k \;, \\ & + c_1 Z^2 A^{-1/3} B_C - c_2 Z^2 A^{1/3} B_r - c_3 Z^2 A^{-1} - c_4 Z^{-1/3} Z - c_5 Z^2 B_W \;, \end{aligned} \qquad (1)$$

where

$$\bar{\delta} = \left[I + \frac{3}{16} (c_1/Q)\, Z A^{-2/3} B_V \right] \Big/ \left[1 + \frac{9}{4} (J/Q) A^{-1/3} B_S \right], \tag{2}$$

$$\bar{\epsilon} = \left[-2a_2 A^{-1/3} B_S + L\bar{\delta}^2 + c_1 Z^2 A^{-4/3} B_C \right] \Big/ K. \tag{3}$$

In these expressions N and Z are the neutron and proton numbers, A is their sum, and I is the relative neutron excess (N - Z)/A. The quantity $\bar{\epsilon}$ is a measure of the average deviation of the bulk density from its nuclear matter value. It is defined by the expression

$$\bar{\epsilon} = -\frac{1}{3} \left(\frac{\rho - \rho_0}{\rho_0} \right)_{ave} . \tag{4}$$

To lowest order in $\bar{\epsilon}$ the radius of the nucleus is given by

$$R = r_0 A^{1/3} (1 + \bar{\epsilon}) , \tag{5}$$

where the nuclear radius constant r_0 is related to the equilbrium density ρ_0 of infinite nuclear matter by the expression

$$\rho_0 = \left(\frac{4}{3} \pi r_0^{\,3} \right)^{-1} . \tag{6}$$

The quantity $\bar{\delta}$ is the value of the local relative neutron excess averaged over the nuclear volume:

$$\bar{\delta} = \left(\frac{\rho_n - \rho_z}{\rho} \right)_{ave} . \tag{7}$$

Since the effective sharp radii of the neutron and proton distributions can differ, producing a neutron skin of thickness t, the quantity $\bar{\delta}$ is not always equal to I as it is in the liquid drop model. For spherical nuclei these quantities are related, to first order in t/R, by the expression

$$\bar{\delta} = I - \frac{3}{2} (t/R) . \tag{8}$$

The separate effective sharp radii of the neutron and proton distributions are given by

$$R_N = R + \frac{Z}{A} t \,, \qquad R_Z = R - \frac{N}{A} t \,, \tag{9}$$

and this latter quantity is the one to be compared with the results of the electron scattering or μ-mesic atom experiments.

The coefficients appearing in Eqs. (1-3) and the values that have been chosen for them are:

$$\begin{aligned} a_1 &= 15.96 \text{ MeV}, && \text{the volume energy coefficient,} \\ a_2 &= 20.69 \text{ MeV}, && \text{the surface energy coefficient,} \\ J &= 36.8 \text{ MeV}, && \text{the symmetry energy coefficient,} \\ r_0 &= 1.18 \text{ fm}, && \text{the nuclear radius constant,} \end{aligned} \tag{10}$$

and

$$\begin{aligned} a_3 &= 0 \text{ MeV}, && \text{the curvature correction coefficient,} \\ Q &= 17 \text{ MeV}, && \text{the effective surface stiffness coefficient,} \\ K &= 240 \text{ MeV}, && \text{the compressibility coefficient,} \\ L &= 100 \text{ MeV}, && \text{the density-symmetry coefficient,} \\ M &= 0 \text{ MeV}, && \text{the symmetry anharmonicity coefficient.} \end{aligned} \tag{11}$$

The five Coulomb coefficients that appear are defined in terms of the coefficients above by the expressions:

$$\begin{aligned} c_1 &= \frac{3}{5} (e^2/r_0) \\ &= 0.73219 \text{ MeV, the Coulomb energy coefficient,} \end{aligned} \tag{12}$$

where $e^2 = 1.4399784$ MeV fm is the square of the electronic charge.

$$\begin{aligned} c_2 &= (c_1/336) \cdot (1/J + 18/K) \\ &= 0.00016302 \text{ MeV, volume redistribution coefficient,} \\ c_3 &= \frac{5}{2} c_1 (b/r_0)^2 \\ &= 1.28846 \text{ MeV, diffuseness correction coefficient,} \end{aligned} \tag{13}$$

where b = 0.99 fm is a measure of the difuseness of the nuclear surface[27]

$$c_4 = \frac{5}{4}\left(\frac{3}{2\pi}\right)^{2/3} c_1$$

$$= 0.55911 \text{ MeV, exchange correction coefficient,} \qquad (14)$$

$$c_5 = \frac{1}{64}\left(c_1^{\,2}/Q\right)$$

$$= 0.00049274 \text{ MeV, surface redistribution coefficient.}$$

The quantities B_i, which introduce shape dependence into Eqs. (1-3), are discussed in detail in Refs. 16 and 39. Each of them is concerned with a different aspect of the shape dependence of the binding energy according to the following list:

B_s , the surface energy,

B_c , the Coulomb energy,

B_k , the curvature energy, (15)

B_r , the volume redistribution energy,

B_v , the neutron skin energy,

B_w, the surface redistribution energy.

As usual they are defined so as to have the value unity for a spherical shape.

The three lines of Eq. (1) represent the volume, surface, and Coulomb contributions to the total binding energy. The four terms in the volume energy contribution (the first line) are: $-a_1$, the binding energy per particle in infinite nuclear matter; $+J\bar{\delta}^2$, the bulk asymmetry term that corrects the binding for the neutron excess; $-\frac{1}{2}K\bar{\epsilon}^2$, the term that gives the extra binding resulting from the competition between various compression and dilatation forces and the bulk compressibility; and, $+\frac{1}{2}M\bar{\delta}^4$, which is a higher order symmetry energy term. The second line consists of two main terms. The first is proportional to the surface area and has the coefficient $\left[a_2 + \frac{9}{4}(J^2/Q)\bar{\delta}^2\right]$. The quantity a_2 is the surface energy coefficient for semi-infinite nuclear matter. The quantity $\frac{9}{4}(J^2/Q)\bar{\delta}^2$ corrects for the fact that some of the excess nucleons are pushed into the surface when $N \neq Z$. The second term in the second line is the curvature correction to the surface energy.

The last line in Eq. (1) has five separate parts, all associated with the Coulomb, energy. The first is the Coulomb energy of a sharp-surfaced sphere of radius $R = r_0A^{1/3}$. The second term is a correction for the redistribution of particles in the bulk in response to the Coulomb repulsion, which produces a central depression. The third term is a diffuseness correction, the fourth an exchange correction,* and the last term is a surface redistribution energy associated with the nonuniformity of the neutron skin thickness caused by electrostatic forces.

The other two expressions, Eqs. (2) and (3), are used to calculate the equilibrium values of $\bar{\delta}$ and $\bar{\epsilon}$ for insertion into Eq. (1). They are easily understood in terms of a competition between driving and restoring forces. In Eq. (3), for example, we see that the average deviation $\bar{\epsilon}$ of the bulk density from ρ_0 is driven by 1) surface squeezing, 2) neutron excess dilatation, and 3) Coulomb dilatation. These driving terms appear, in that order, in the numerator of Eq. (3), while the restoring force K appears in the denominator. In Eq. (2) we also see that the driving term I, the overall relative neutron excess, and a Coulomb term that acts to increase the average bulk neutron excess, are both in the numerator. The terms in the denominator act as a restoring force that tends to reduce the average bulk asymmetry $\bar{\delta}$.

All of these expressions are more thoroughly explained in Ref. 16.

III. MASS FORMULA

The Droplet Model of macroscopic nuclear properties contains a number of parameters such as the volume energy, surface energy, and symmetry energy coefficients. Their values can be determined by varying them until the agreement between experimental and predicted values for nuclear masses, fission barriers, and radii is as good as possible. The form of the mass formula employed for this purpose is the following:

$$\begin{aligned} \text{Mass Excess} = {} & M_N \cdot N + M_H \cdot Z + \text{Droplet Model Term} \\ & + \text{Shell Correction} + \text{Even-Odd Term} + \text{Wigner Term} \\ & - 0.00001433 \cdot Z^{2.39}\ \text{MeV} . \end{aligned} \tag{16}$$

The tabulated masses are atomic rather than nuclear and that is why the last term has been added. It provides a small correction to the data for the binding of the atomic electrons.[40] Another characteristic of the available data is that masses are given as mass

*The usual exchange term is $-c_4 Z^{4/3}/A^{1/3}$; see Ref. 2. Since this is a correction term we have made the simplifying assumption that $Z \approx A/2$. The actual form given in Eq. (1) must be used in conjunction with the coefficients, Eqs. (10-14), given in the text.

excesses relative to ^{12}C as a standard. In this scheme the mass excess of ^{12}C is set to zero, and the true mass of any atom can be obtained from the tabulated mass excess by the relationship[41]

$$\text{True Mass} = \text{Mass Excess} + 931.504 \cdot A \ \text{MeV}. \tag{17}$$

In this system the coefficients of the first two terms in Eq. (16), which are the mass excesses of the neutron and the hydrogen atom, have the values:[41]

$$\begin{aligned} M_N &= 8.07169 \text{ MeV}, \\ M_H &= 7.28922 \text{ MeV}. \end{aligned} \tag{18}$$

A. Shell Corrections

The shell corrections employed were the same as in our original work,[12,13] with the slight modification in shape dependence added in Ref. 14. These references discuss the physical motivation behind the expressions that are reproduced here.

For spherical nuclei the shell correction is taken to be

$$S(N,Z) = C \cdot \left[\frac{F(N) + F(Z)}{\left(\frac{1}{2}A\right)^{2/3}} - cA^{1/3} \right] , \tag{19}$$

where

$$F(N) = q_i \cdot (N - M_{i-1}) - \frac{3}{5}\left(N^{5/3} - M_{i-1}^{5/3}\right) , \tag{20}$$

for $M_{i-1} < N < M_i$, and both C and c are adjustable coefficients.
The quantities q_i are defined by

$$q_i = \frac{3}{5} \cdot \frac{M_i^{5/3} - M_{i-1}^{5/3}}{M_i - M_{i-1}} , \tag{21}$$

and the quantities M_i (the magic numbers) are chosen to have the values 2, 8, 14, 50, 82, 126, 184, and 258.

As before, the damping of shell effects with deformation is taken to have the relatively simple functional form

$$(1 - 2\theta^2)\, e^{-\theta^2} , \tag{22}$$

where θ, as it is used here and in Refs. 13 and 14, is a measure of the deviation of the nuclear shape from spherical. For small deformations given by the expression

$$R(\mu) = \lambda^{-1} R[1 + \alpha P_2(\mu)] \ , \tag{23}$$

where the value of λ is chosen to insure volume conservation, the quantity θ is given by

$$\theta = \alpha / \alpha_0 \ , \tag{24}$$

where

$$\alpha_0 = \sqrt{5}\,(a/r_0) A^{-1/3} \ . \tag{25}$$

The quantity a that appears in Eq. (25) is an adjustable coefficient that determines how quickly the shell effects damp out as the shape is changed.

Since only the Droplet Model and shell effect terms in Eq. (16) are shape dependent, the whole expression can be recast (using the expressions for the shape dependences B_i given in Section V of Ref. 16) in the form

$$M = M_0 + E\theta^2 + F\theta^3 + S \cdot (1 + 2\theta^2) e^{-\theta^2} \ . \tag{26}$$

In this expression the first three terms are an expansion of the Droplet Model shape dependence to cubic order in θ, and the last term is the shell correction with its shape dependence. If the lowest minimum in this function is other than spherical then the nucleus is predicted to be deformed in its ground state. The resulting intrinsic quadrupole moment is given to order α^2 by the expression

$$Q_0 = 0.012 \cdot (r_0 A^{1/3})^2 Z \alpha (1 + \frac{4}{7}\alpha) \quad \text{barns} \tag{27}$$

As in previous work, the quantity we refer to here as the shell correction is the difference between the minimum energy in Eq. (26) and M_0. For the three adjustable parameters that appear in the shell correction we have chosen to retain the values used earlier:[14]

$$\begin{aligned} C &= 5.8 \text{ MeV}, \\ c &= 0.325, \\ a/r_0 &= 0.444. \end{aligned} \tag{28}$$

In the actual fit, an entirely empirical function F(N or Z) similar to the one given in

Section 7.3 of Ref. 13 was employed for N, Z < 20. This function was determined from N = Z nuclei with the aid of Eq. (19) after subtracting the other terms of Eq. (16).

B. The Even-Odd Term

In our previous work[13,14] an even-odd mass term was employed that had the value $+11/\sqrt{A}$, 0, $-11/\sqrt{A}$ depending on whether the nucleus was odd, odd-A, or even. Here we use a slightly different version that allows for the fact that the separation between the odd and odd-A mass surfaces is slightly smaller than the separation between the even and odd-A surfaces (see the caption to Fig. 2-5 in Ref. 42, for example). Figure 1 shows how the correction was made so the mean mass surface continues to pass through the masses halfway between the even and the odd nuclei. In this scheme the correction is $(\Delta - \frac{1}{2}\delta)$, $(+\frac{1}{2}\delta)$, $(-\Delta + \frac{1}{2}\delta)$ depending on whether the nucleus is odd, odd-A, or even, where $\Delta = 12/\sqrt{A}$ and $\delta = 20/A$.

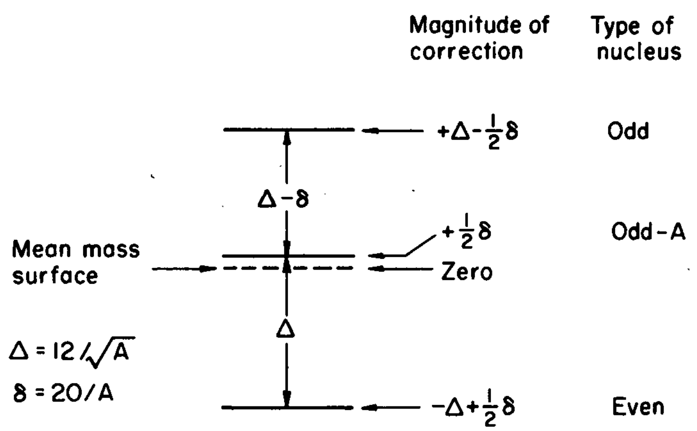

Fig. 1. Scheme used for the even-odd correction.

C. The "Wigner Term"

There is a V-shaped trough or kink in the nuclear mass surface (see Ref. 13, Section 7.2, for example) that is not a shell effect in the usual sense. A term of this kind in the mass equation, proportional to $|I|$, was first discussed by Wigner; see Ref. 43 and References there to the original works, or Ref. 44 in Section III.

A simple argument serves to show how a term with this unusual structure can arise from the increased overlap of wave functions of particles in identical orbits. The idea is, briefly, to write the excess interaction energy ΔE as a product of an average "bond strength" ϵ for non-identical orbit pairs, times a "matching excess factor" $(k - 1)$ expressing the relative interaction gain from the matching of identical orbits (assumed to interact k times more strongly than the non-identical ones), times the number H of identical orbit pairs in a nucleus, thus

$$\Delta E \approx \epsilon \cdot (k - 1) \cdot H \quad . \tag{29}$$

A term proportional to $|N - Z|$ then appears in ΔE because H contains such a term. An evaluation of this term requires some (straightforward) counting of identical pairs in a nucleus, detailed in Fig. 2, but the basic reason for an $|N - Z|$ term is trivially simple and may be illustrated at once by an analogy. Thus imagine that in a population of A persons (Z men and N women) the men and women are paired off in couples. The number of couples will be given by the smaller of the two numbers N and Z, which may be written as $\frac{1}{2}A - \frac{1}{2}|N - Z|$. The reason for the appearance of the $|N - Z|$ term in the counting of identical pairs in a nucleus is precisely the same as in the above counting of couples.

In order to estimate ΔE in Eq. (29) let us assume the approximate validity of the independent-particle model, so that the nuclear wave function may be considered as made up of spin up and spin down neutrons, and spin up and spin down protons. This

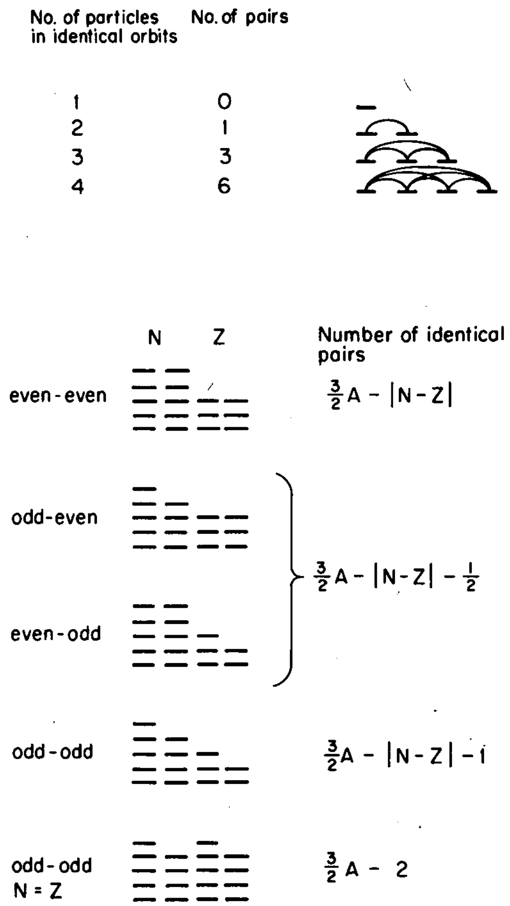

Fig. 2. Origin of the "Wigner term" in terms of increased binding for nucleons in identical orbits.

is symbolized by the usual four columns of horizontal bars in Fig. 2, each bar representing the spacial part of a particle's wave function (its "orbit"). Bars in the same horizontal line refer to identical orbits. (Or, if the electrostatic and spin-orbit interactions are kept in mind, at least to very similar orbits).

The expectation value of the nuclear interaction energy $\Sigma\Sigma v_{ij}$ will consist of three types of terms or "bonds." The most numerous will be contributions ϵ from "slanted pairs," i.e., from pairs of particles that are neither in the same row nor column in Fig. 2. Secondly, there will be contributions ϵ_H from pairs of particles in identical orbits, i.e., particles in the same horizontal line in Fig. 2 (H stands for "horizontal"). Lastly, there will be contributions ϵ_V from pairs in the same vertical column. The bonds are given by expressions of the type

$$\begin{aligned} \epsilon &= \iint \phi^*(1)\psi^*(2)\, v_{12}\,\phi(1)\psi(2)\, d^3x_1 d^3x_2 \ , \\ \epsilon_H &= \iint \phi^*(1)\phi^*(2)\, v_{12}\,\phi(1)\phi(2)\, d^3x_1 d^3x_2 \ , \end{aligned} \qquad (30)$$

where ϕ, ψ stand for different orbits, and the numbers 1,2 label a pair of particles. The expression for ϵ_V is similar to ϵ, but with the antisymmetrized combination $2^{-1/2}\,[\phi(1)\,\psi(2) - \phi(2)\,\psi(1)]$ in place of $\phi(1)\,\psi(2)$. This antisymmetrization is necessary for vertical pairs in order to make the total wave function antisymmetric to the interchange of particles whose spin and isospin states are already identical).

The expectation value of the nuclear interaction energy may now be written as

$$E_{int} = \bar{\epsilon}_V V + \bar{\epsilon} S + \bar{\epsilon}_H H \ ,$$

where $\bar{\epsilon}_V$, $\bar{\epsilon}$, $\bar{\epsilon}_H$ stand for average values of the respective bonds, and V, S, H are the numbers of vertical, slanted, and horizontal bonds. (In what follows we shall omit the bars over the ϵ's).

Denoting the total number of bonds by T [equal to ½A(A − 1)] we may rewrite E_{int} as follows:

$$\begin{aligned} E_{int} &= \epsilon_V V + \epsilon(T - V) + (\epsilon_H - \epsilon)H \\ &= \epsilon_V V + \epsilon(T - V) + \Delta E \ , \end{aligned} \qquad (31)$$

where $\Delta E = \epsilon(k - 1)H$, with $k = \epsilon_H/\epsilon$.

The reason for writing E_{int} in the above form is that only the part ΔE contains a term in $|N - Z|$. Thus, in the first line of Eq. (31), the total number of bonds T evidently has no such term. Neither has V, which is readily found with the aid of Fig. 2 to be given by

$$V = \frac{N}{2}\left(\frac{N}{2} - 1\right) + \frac{Z}{2}\left(\frac{Z}{2} - 1\right) + \frac{1}{2} A\delta$$
$$= \frac{1}{8} A^2(1 + I^2) - \frac{1}{2} A + \frac{1}{2} A\delta ,$$

where

$$\delta = \frac{1}{A} \begin{cases} 0 , & \text{for even-even} \\ \frac{1}{2} , & \text{for odd-A} \\ 1 , & \text{for odd-odd} \end{cases} .$$

On the other hand the number of identical bonds follows from Fig. 2 as

$$H = \frac{3}{2} A - A\delta - |N - Z| - A\Delta$$
$$= -A\left(-\frac{3}{2} + \delta + |I| + \Delta\right) , \tag{32}$$

$$\text{where } \Delta = \frac{1}{A} \begin{cases} 1, & \text{for } N = Z \text{ odd} \\ 0, & \text{otherwise} \end{cases} . . \tag{33}$$

It follows that in order to discuss the contribution to the energy characterized by the term $|I|$ (and the additional term Δ), it is only necessary to consider the part ΔE in Eq. (31) associated with slanted and horizontal bonds, ϵ and ϵ_H.

As regards the relative size of ϵ_H and ϵ, we note that for (non-singular, non-exchange) interactions v_{12} with a range very large compared to the size of the system the contributions ϵ_H and ϵ in Eq. (30) become proportional to products of normalization integrals and the ratio $\epsilon_H : \epsilon$ tends to unity. But in the more nearly realistic limit of short-ranged interactions the bonds ϵ_H, ϵ become proportional to the overlaps of the density distributions $|\phi|^2$ and $|\psi|^2$ of the particle orbits. This overlap is greater for particles in identical orbits (when the nodes and antinodes of the wave functions match) than for non-identical orbits (when, in general, they do not match). For example, in an infinitely deep potential well in the shape of a parallel-sided box (a "Hill-Wheeler box") the ratio between the overlap of matching (identical) and totally non-matching orbit densities is readily verified to be

$$\left[\frac{\int_0^{\pi} \sin^2 nx \, \sin^2 nx \, dx}{\int_0^{\pi} \sin^2 mx \, \sin^2 nx \, dx}\right]^3 = \left(\frac{3}{2}\right)^3 . \tag{34}$$

(The exponent 3 is associated with the three dimensions of the box.)

In the above idealized example we would thus have $\epsilon_H : \epsilon = 27/8 = 3.375$. In general then one would estimate that k in Eq. (29) might be a number in the range $1 < k \lesssim 27/8$.

Finally, as regards an estimate of the absolute magnitude of ϵ, we note that the nuclear interaction energy arising from all bonds is about (−16 −20)A MeV. (The −16 MeV is the nuclear binding energy per particle in nuclear matter and the −20 MeV allows for the kinetic energy per particle.) Hence the average bond energy is of the order of -36 A MeV/[½A(A − 1)] or about (−72/A) MeV. This would also be the slanted bond strength ϵ if one could assume that ϵ_V and ϵ were equal. (The contribution of the term $\epsilon_H H$ to the total energy is one order lower in A and may be disregarded in the present estimates.) In fact, however, ϵ_V may be considerably smaller than ϵ because of the antisymmetrization in vertical bonds. (The result of the antisymmetrization is that ϵ_V would be identically zero for delta-function interactions, or for any range "Serber" forces, relevant in the nuclear context.) If ϵ_V were taken as zero, then slanted bonds would be the only contributors to the interaction energy (to leading order in A) and, since for a larger nucleus (with a smaller neutron excess) $S \approx T - V \approx \frac{1}{2}A^2 - \frac{1}{8}A^2 = \frac{3}{4}(\frac{1}{2}A^2)$, we would estimate

$$\epsilon \approx \frac{4}{3}(-72/A) \text{ MeV} = -(96/A) \text{ MeV}. \tag{35}$$

In any case we shall not be grossly in error if we estimate the Matching Energy ΔE as

$$W\left(-\frac{3}{2} + \delta + |I| + \Delta\right) , \tag{36}$$

where $W \approx 96(k - 1)$ MeV, with $1 < k \lesssim 27/8$.

The first term in the bracket in Eq. (36) is a constant. Such terms (of order A^0)

can arise from several sources. We will not retain this particular contribution in order to be consistent with the general formulation of the Droplet Model where the highest-order term is $A^{1/3}$. The second term will not be retained, since it is an even-odd correction of the type discussed in the previous section, and its contribution to the nuclear mass is included in the empirical term described there. The third term, showing the $|I|$ dependence, is the one we originally sought. The last term applies only to N = Z = odd nuclei. We will keep it because of its peculiar structure and because it is clearly called for by the experimental masses (see Ref. 44, Table I). The form adopted for our "Wigner term" is then

$$E_{Wigner} = W(|I| + \Delta) , \tag{37}$$

and choosing 30 MeV for the value of W gives reasonable agreement with experiment. (This is consistent with a value of k in the anticipated range.)

On the basis of the derivation given above the "Wigner term" should, on the average, be approximately independent of the nuclear shape (with an important qualification mentioned below.) Thus the average interaction energy per pair is, to leading order in A, independent of shape. This may be appreciated by recalling the physical content of Eq. (35), which may be considered as the product of a typical interaction energy between nucleons when within range of their interactions (of the order of tens of MeV), times the fraction of the time two independent nucleons exploring a volume V are within range, which is of the order of (range of forces)^3/V $\approx A^{-1}$. The factor H is, in the nature of things, independent of nuclear shape. The factor (k − 1) may, in general, depend on the details of the particle orbits. But insofar as the usual statistical limit of a large irregular cavity filled with quantized orbits is, apart from surface corrections, approximated by a box calculation, the result suggested by Eq. (34) (that k is independent of shape) should be valid — at least on the average.

The qualification on the shape-independence of the Wigner term is that when a single system divides into n parts (as in fission) the Wigner term must be evaluated separately for the different pieces and the results added. Thus in a division into n pieces, all with the same value of $|I|$, the Wigner term would jump at scission to n times its original value. This strange behavior may be traced to the circumstance that the number of identical pairs H becomes split up at scission into a number of groups $H_1, H_2, \ldots H_n$ associated with the fragments $A_1, A_2, \ldots A_n$, each group exploring now a smaller volume and interacting therefore with stronger average interactions of about $-96\ A_1^{-1}$, $-96\ A_2^{-1}$, ... $-96\ A_n^{-1}$ MeV per pair. The result of summing the products $(96\ A_1^{-1}) \cdot |N_1 - Z_1|$, $(96\ A_2^{-1}) \cdot |N_2 - Z_2|$, is evidently just n times the original product $(96\ A^{-1}) \cdot |N - Z|$. [We have assumed that $(N_1 - Z_2)/A_1 = (N_2 - Z_2)/A_2 = (N - Z)/A$.] In general then we should write the Wigner or Matching energy as

$$\sum_{i=1}^{n} W(|I_i| + \Delta_i) \ , \tag{38}$$

where the sum is carried out over the n separate pieces of the nuclear configuration in question.

The predicted jump in the value of the Matching term at scission is a discontinuous step function in the idealization considered here. (This is analogous to the step function encountered in a higher order curvature correction to the surface energy, a contribution, like the Wigner term, of order A^0. (See Section 3 of the paper by Błocki et al., Ref. 26.) In reality one would expect a washed-out step function reflecting the fact that the nucleonic motions change continuously from an exploration of the total volume to the exploration of the fragment sub-volumes as the neck connecting the fragments closes off gradually.

We have given a somewhat fuller discussion of our form of the Wigner term than might be thought appropriate in view of the many standard expositions of Wigner's supermultiplet theory and his "Uniform Model" of nuclear masses. We offer two excuses. First, we should point out that the physical content of our Matching Energy and of the usual Wigner term does not appear to be identical. The Wigner Supermultiplet theory is more general than the independent-particle model on which we base our derivation of the Matching Energy, and Wigner's "uniformity" assumption of one average strength for space-even bonds and one for space-odd bonds is not the same as our assumption (motivated specifically by the independent-particle model) of one average strength for identical bonds and one for non-identical bonds.

This less general, more specific basis of our model enables us to give a discussion of the shape-dependence of the Matching Energy, which, as far as we know, has not been provided for the conventional Wigner term.

IV. COMPARISON WITH EXPERIMENT

The primary data employed for the determination of the Droplet Model coefficients were the 1678 experimental atomic masses with $A \geqslant 10$ taken from the 1971 compilation of Wapstra and Gove.[41] These were supplemented by 62 experimental fission barriers, 109 ground state deformations, and 6 nuclear charge radii. The actual fit was weighted 3/4 to the masses and 1/4 to the fission barriers.* If we had given each datum equal weight the large number of masses would have dominated, leaving the barriers with little influence on the results. The radii were only used in the fitting procedure when we had to choose between r_0 = 1.17 and 1.18 fm in rounding off the final set of coefficients. The deformations are determined largely by the coefficients in the shell effect function whose values were taken from our previous work.[14] The resulting Droplet Model predictions for all of these quantities are discussed in the following sections.

A. Beta-Stability Properties

In order to appreciate the quality of the fit, let us compare the general features of the experimental mass surface with those predicted by the theory. One way of doing this is to recognize that the mass surface is essentially a steep-sided valley whose main axis bends away from the N = Z line toward neutron rich nuclei and whose cross section is approximately parabolic.

The solid curves in Fig. 3 show how the valley of beta stability is expected to vary as a function of the mass number A. The characteristics of parabolas fitted (at constant A) to the mass surface are given in this figure for comparison with the corresponding experimental values given by points. The quantity V_A is the minimum value of the parabola, Y_A is the value of the neutron excess (Y = N - Z) at the minimum, and C_A is the curvature of the parabola. One sees that the lowest point on the mass surface is at A $\approx$ 115, that the displacement of the valley away from the N = Z line increases steadily, and that the curvature of the bottom of the valley decreases with increasing A. One also sees that the agreement between theory and experiment is so good that we must display the difference (as is done in Fig. 4) in order to see the remaining discrepancies.

Figure 4 shows that the minimum values of the parabolas fitted to the experimental masses generally lie below those predicted, and that the curvature of the experimental parabolas is generally greater than that predicted. These two deviations tend to compensate. In addition, note the relatively large excursion of the experimental values of V_A away from those predicted in the vicinity of A = 190. This difference seems to be due to the relatively poor quality of our shell corrections for nuclei at the end of the rare-earth region. Another deviation that is probably due to shell effects is the tendency of the experimental valley of beta stability to straighten out in the actinide region and not continue to bend away from the N = Z line as is predicted by the model. This

*A minor error was found in the barrier calculations after the fitting was completed. Its correction resulted in slightly improved agreement with experiment.

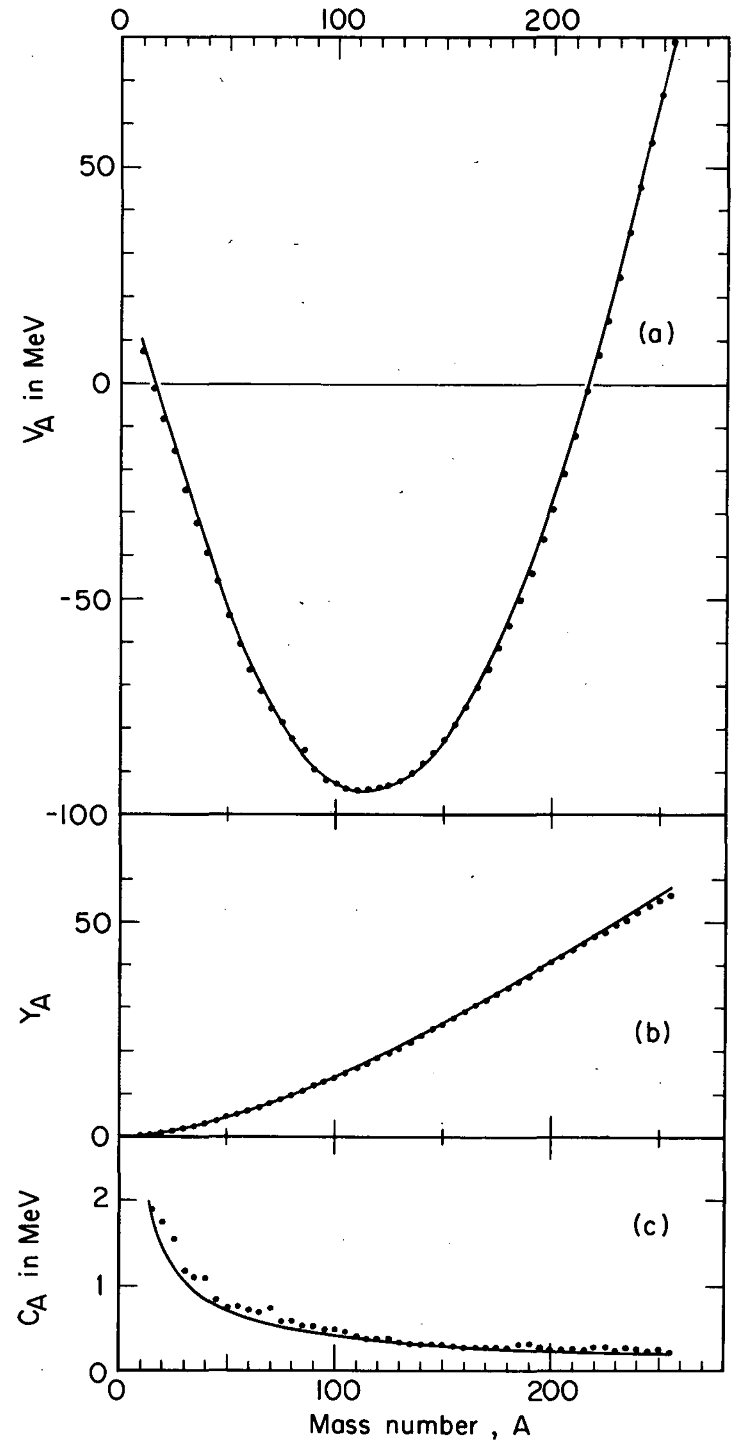

Fig. 3. Experimental and calculated properties of the valley of beta stability are plotted against mass number A. The points shown (for every fifth A value) were determined by fitting the quadratic function $M_A = V_A + \frac{1}{2}C_A(Y - Y_A)^2$ to isobaric sequences after first correcting the experimental masses for shell effects, the even-odd mass differences, the Wigner term and the binding of the atomic electrons. The solid lines represent a similar fit to the Droplet Model predictions for these same nuclei.

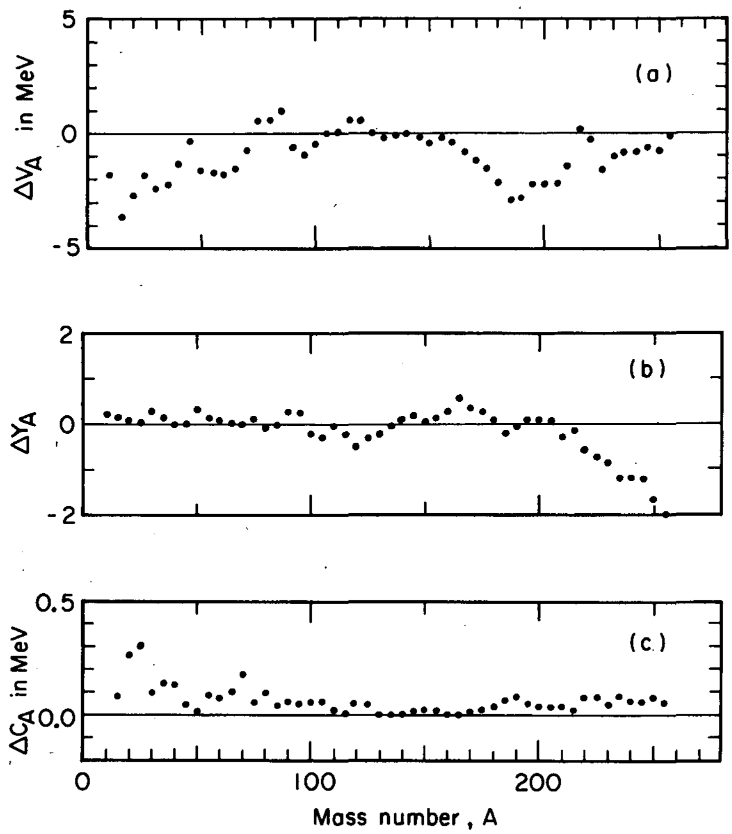

Fig. 4. The difference between the experimental and calculated values of V_A, Y_A, and C_A from Fig. 3 are plotted against mass number A in order to display the remaining deviations. This particularly useful way of displaying the data was inspired by the work of Yamada,[52] Kodama[53] and Ludwig et al.[35]

tendency shows up as a downward deviation of Y_A in Fig. 4b for $A \geqslant 210$. In our efforts to understand this deviation we tried other sets of shell corrections,[45-47] which reduced the discrepancy to varying degrees, but none of them eliminated it entirely. We also found that by choosing what appear to be unphysical values for the Droplet Model coefficients L and M, which are concerned with higher order asymmetry effects, we could straighten out the valley of beta stability in the actinide region. This had the effect of reducing the discrepancy at the cost of distorting the whole fitting procedure so as to give values that we felt were unreasonable for many of the coefficients. To avoid this undesirable tendency the coefficients L and M were fixed at nominal values close to those indicated by our earlier Thomas-Fermi calculations, and not allowed free variation in the fit.[15] The compressibility coefficient K was also fixed at a nominal value close to the one that gave the best agreement with experiment.

B. Final Mass Differences

Another way of displaying the differences between the experimental masses and the theoretical predictions is to plot the individual mass differences versus the neutron number as is done in Fig. 5. This plot, which should be compared with similar ones in our previous work,[14] shows once again how poor our shell correction function is at the end of the rare-earth region. The agreement between our shell function and the experimental one is also poor for the heavy elements. Microscopic methods for calculating shell effects such as the Strutinsky procedure[22-24] were expected to give a better account of these features, but their overall agreement with experiment (as can be seen in Figs. 6 and 7) is about the same.

Of course, it is possible some of the deviations seen in Figs. 3-7 are due to as yet unrecognized macroscopic effects rather than being completely due to shell effects. Another way of displaying the residual errors that might be useful for identifying such trends is a contour plot like Fig. 8. Here the same data as are shown in Fig. 5 are given as contours in the N,Z plane. The main feature of this diagram seems to be the hole near N = 110, Z = 75 due to over-correction for the shell effects in this region.

C. Fission Barriers

As was mentioned earlier, the Droplet Model coefficients were adjusted to give the best possible agreement between theory and experiment for both ground state masses and fission barriers. The comparison between the measured values of the fission barriers (based on the data from Table 1) and the calculated values is shown in Fig. 9. In the upper part of this figure (a) the measured barriers are plotted relative to the ground state mass according to the scheme shown in Fig. 10. The Droplet Model saddle masses are given in Part (b) and the difference between (a) and (b) is plotted in Part (c). The differences do not seem to be associated with any weakness of the Droplet Model but instead are seen to be almost entirely attributable to shell effects at the barrier. These effects (which are not included in the Droplet Model predictions) have been estimated for the actinide region[49] and for the lighter nuclei,[50] and these estimates are plotted in Part (d) of Fig. 9.

At first the differences in Part (c) of the figure were thought to reflect some possible shortcoming of the Droplet Model because of their relatively smooth variation through the periodic table. Negative values of the curvature correction coefficient, and a modified type of surface energy function[48] were both found to be effective in reducing the differences in the saddle masses but they made the fit to ground state masses worse. This source of concern was subsequently removed when we became aware of the importance of saddle point shell effects.

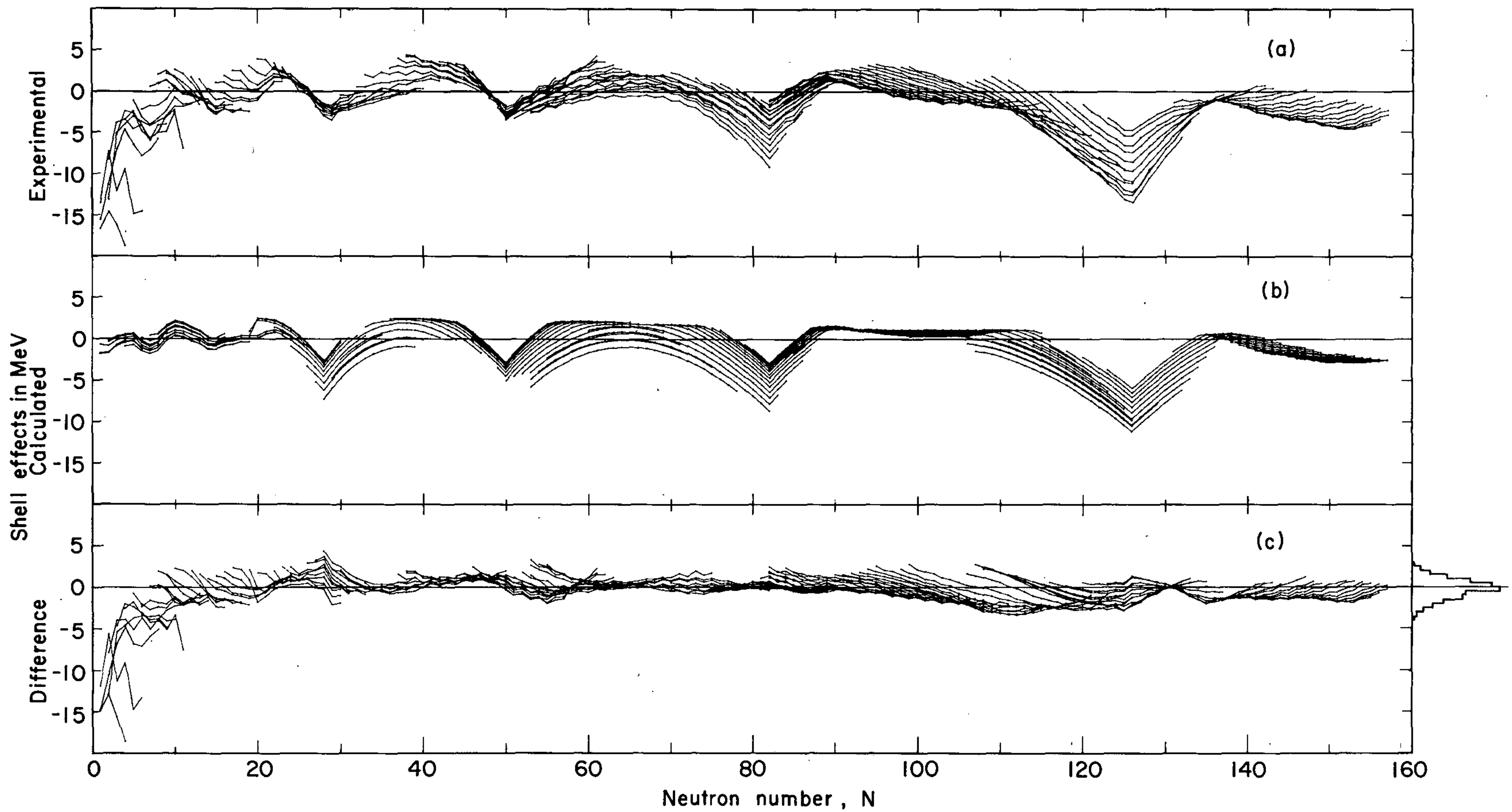

Fig. 5. The experimental and calculated shell effects and their differences are shown as functions of the neutron number. Isotopes of an element are connected by a line. The large negative deviations at the beginning of the periodic table are for nuclei outside of the fit region, which began at A = 10. A small histogram to the right of Part (c) shows how the final errors are distributed for nuclei in the fit region. The substantial weight given to fitting fission barriers is presumably responsible for pulling the error distribution slightly to one side so that the mass residuals are not equally distributed about zero.

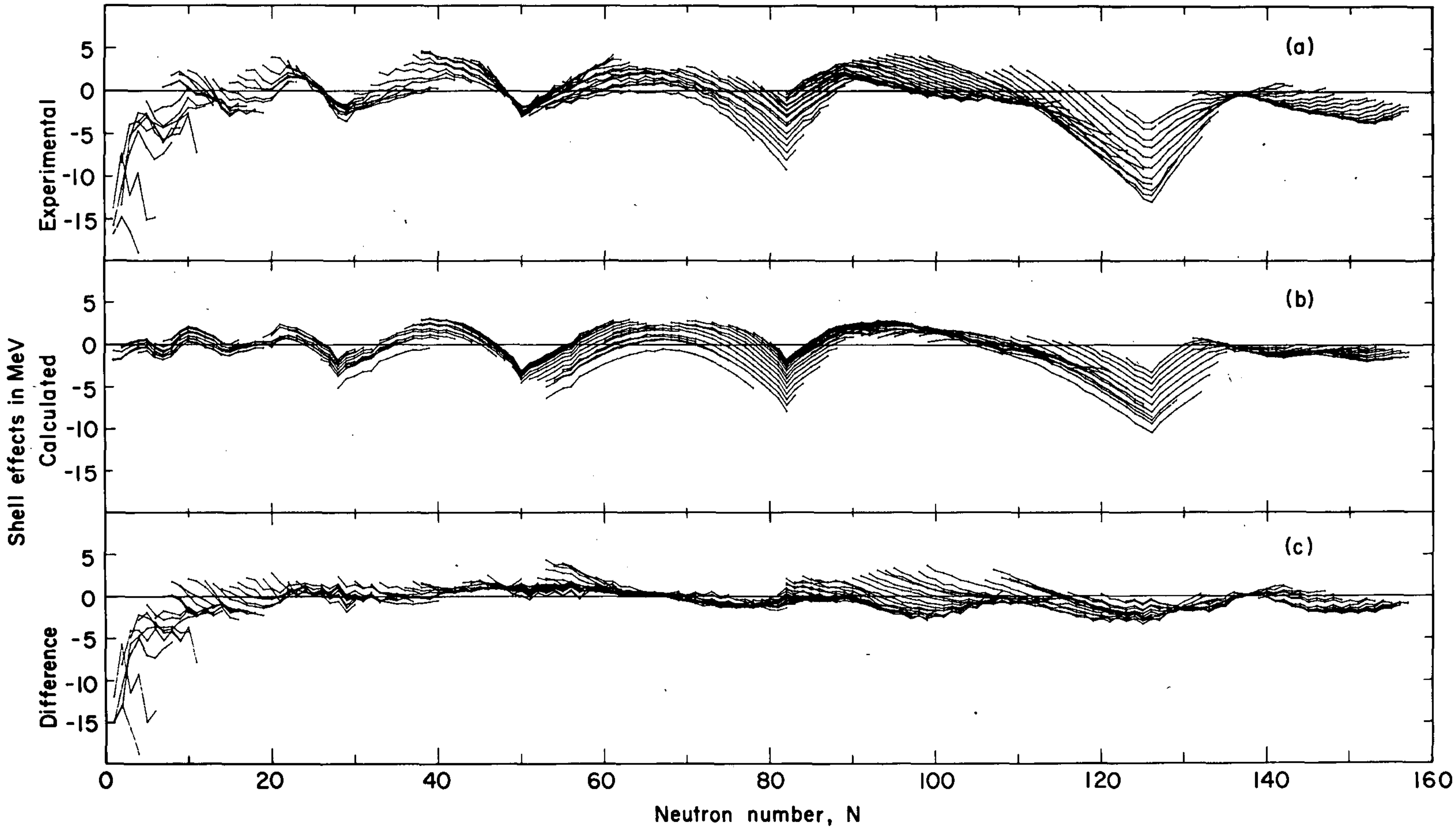

Fig. 6. This figure is like Fig. 5 for N and Z < 20 where an empirical shell function is used. The remainder of the calculated shell effects are from Seeger,[46] who used the Strutinsky method. The Droplet Model coefficients were redetermined to obtain the best agreement with masses and fission barriers. Their values changed very little and the quality of the fit was about the same.

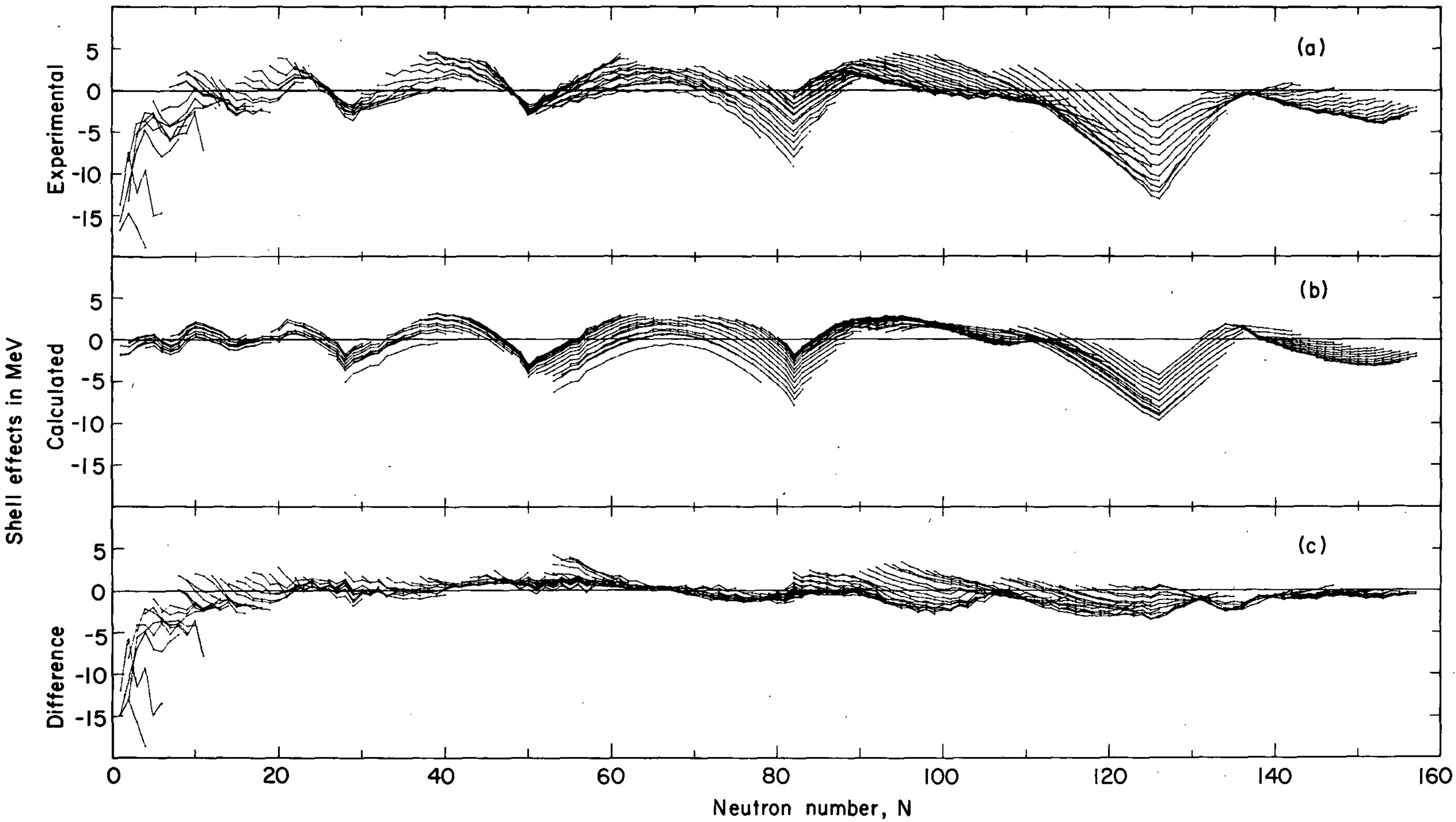

Fig. 7. This figure employs an empirical shell function for N and Z < 20 as in Figs. 5b and 6b. It uses the shell corrections provided by Seeger (see Fig. 6b) up to the middle of the rare-earth region then switches to a set of corrections provided by Möller.[45] The latter set of corrections was adjusted to the heavy-element region where it agrees quite well with experiment. Even though the Droplet Model coefficients were also redetermined, the overall agreement is about the same as that shown in Figs. 5 and 6.

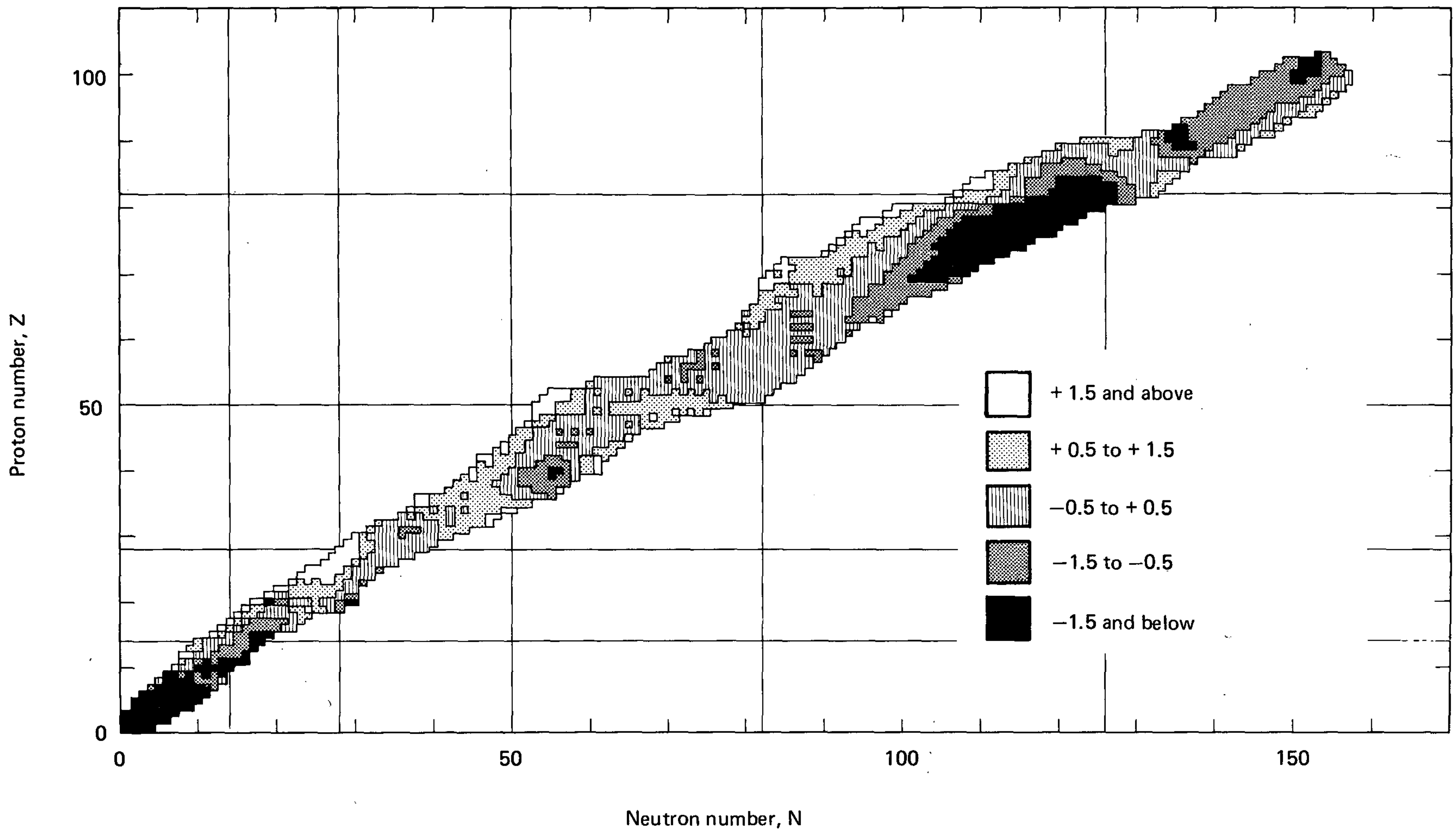

Fig. 8. The differences that remain between the experimental masses and those calculated with Eq. (16) after the Droplet Model coefficients have been adjusted to give the best overall agreement for masses and fission barriers.

Table 1. Experimental Fission Barriers and Saddle Masses.

Name	Z	A	Experimental Barrier	Relative Saddle Mass Exp.	Relative Saddle Mass Calc.	Relative Saddle Mass Diff.	Saddle Point Shell Effects[g]
Lu	71	173	28.0[a]	27.2	30.9	-3.7	
Ta	73	179	26.1[a]	25.0	27.9	-2.9	-2.6
Re	75	185	24.0[a]	22.0	24.8	-2.8	-3.5
Os	76	186	23.4[a]	21.4	23.3	-1.9	-3.8
		187	22.7[a]	20.5	23.2	-2.7	
		188	24.2[a]	21.8	23.2	-1.4	-4.4
Ir	77	189	22.6[a]	20.2	21.6	-1.4	
		191	23.7[a]	20.7	21.5	-0.8	-4.6
Tl	81	201	22.3[a]	13.8	15.2	-1.4	-0.8
Bi	83	207	21.9[a]	11.1	12.2	-1.1	-1.7
		209	23.3[a]	11.1	12.0	-0.9	
Po	84	210	21.0[a,b]	10.1	10.9	-0.8	-0.5
		211	19.7[a]	10.0	10.8	-0.8	
		212	19.5[a]	10.9	10.7	0.2	-0.5
At	85	213	17.0[a]	9.6	9.8	-0.2	
Rn	86	216	13.5[c]	8.4	8.6	-0.2	
Ra	88	225	9.0[d]	8.2	6.6	1.6	
		227	8.0[d]	8.0	6.4	1.6	
Ac	89	226	8.0[d]	7.0	6.0	1.0	
		227	7.3[d]	6.6	5.9	0.7	
		228	7.2[d]	6.8	5.8	1.0	
Th	90	230	6.5[e]	5.8	5.2	0.6	
		232	6.2[e]	5.7	5.0	0.7	
		234	6.5[e]	6.3	4.8	1.5	
Pa	91	231	5.9[f]	4.9	4.7	0.2	
		232	6.1[f]	4.9	4.6	0.3	
		233	6.0[f]	5.0	4.5	0.5	
U	92	232	5.5[e]	4.0	4.2	-0.2	1.9
		234	6.2[e]	4.6	4.0	0.6	1.5
		235	6.1[f]	4.5	4.0	0.5	
		236	5.7[e]	4.3	3.9	0.4	1.3
		237	6.4[f]	5.0	3.8	1.2	
		238	5.9[e]	4.9	3.8	1.1	1.5
		239	6.6[f]	5.6	3.7	1.9	
		240	6.0[e]	5.4	3.6	1.8	1.6

Table 1. (Continued)

Name	Z	A	Experimental Barrier	Exp.	Calc.	Diff.	Saddle Point Shell Effects[g]
Np	93	234	5.4[f]	3.3	3.7	−0.4	
		235	5.6[f]	3.6	3.6	0.0	
		236	5.7[f]	3.6	3.6	0.0	
		237	5.7[f]	3.9	3.5	0.4	
		238	6.0[f]	4.0	3.4	0.6	
		239	5.9[f]	4.3	3.4	0.9	
Pu	94	238	5.9[e]	3.6	3.1	0.5	1.0
		239	6.4[f]	3.9	3.1	0.8	
		240	5.8[e]	3.6	3.0	0.6	1.1
		241	6.3[f]	4.1	3.0	1.1	
		242	5.6[e]	3.8	2.9	0.9	1.1
		243	6.1[f]	4.3	2.9	1.4	
		245	5.7[f]	4.3	2.7	1.6	
Am	95	240	6.4[f]	3.4	2.7	0.7	
		241	6.0[f]	3.3	2.7	0.6	
		242	6.4[f]	3.7	2.6	1.1	
		243	6.0[f]	3.7	2.6	1.1	
		244	6.2[f]	3.8	2.5	1.3	
		245	5.9[f]	4.0	2.5	1.5	
		247	5.6[f]	4.1	2.4	1.7	
Cm	96	244	6.1[e]	3.2	2.3	0.9	1.4
		245	6.4[f]	3.4	2.2	1.2	
		247	6.2[f]	3.5	2.1	1.4	
		248	6.2[e]	3.9	2.1	1.8	1.5
		249	5.8[f]	3.7	2.0	1.7	
		250	5.2[e]	3.6	2.0	1.6	1.4
Bk	97	249	6.1[f]	3.2	1.8	1.4	

[a]L. G. Moretto et al., Phys. Lett. 38B, 471 (1972).
[b]Average of two values given.
[c]H. Freisleben, H. C. Britt, and J. R. Huizenga, Proceedings of the Third International Conference on the Physics and Chemistry of Fission, paper IAEA/SM - 174/81.
[d]Inferred from figures in E. Konechy, H. J. Specht, and J. Weber, ibid, paper IAEA/SM - 174/20.
[e]B. B. Back et al., ibid., paper IAEA/SM - 174/27.
[f]B. B. Back et al., ibid., paper IAEA/SM - 174/201.
[g]All the positive corrections (Z = 92, 94 and 96) were taken from Ref. 49. The values for the lighter nuclei are from Ref. 50. In the latter case the calculated value from a neighboring even nucleus is sometimes used.

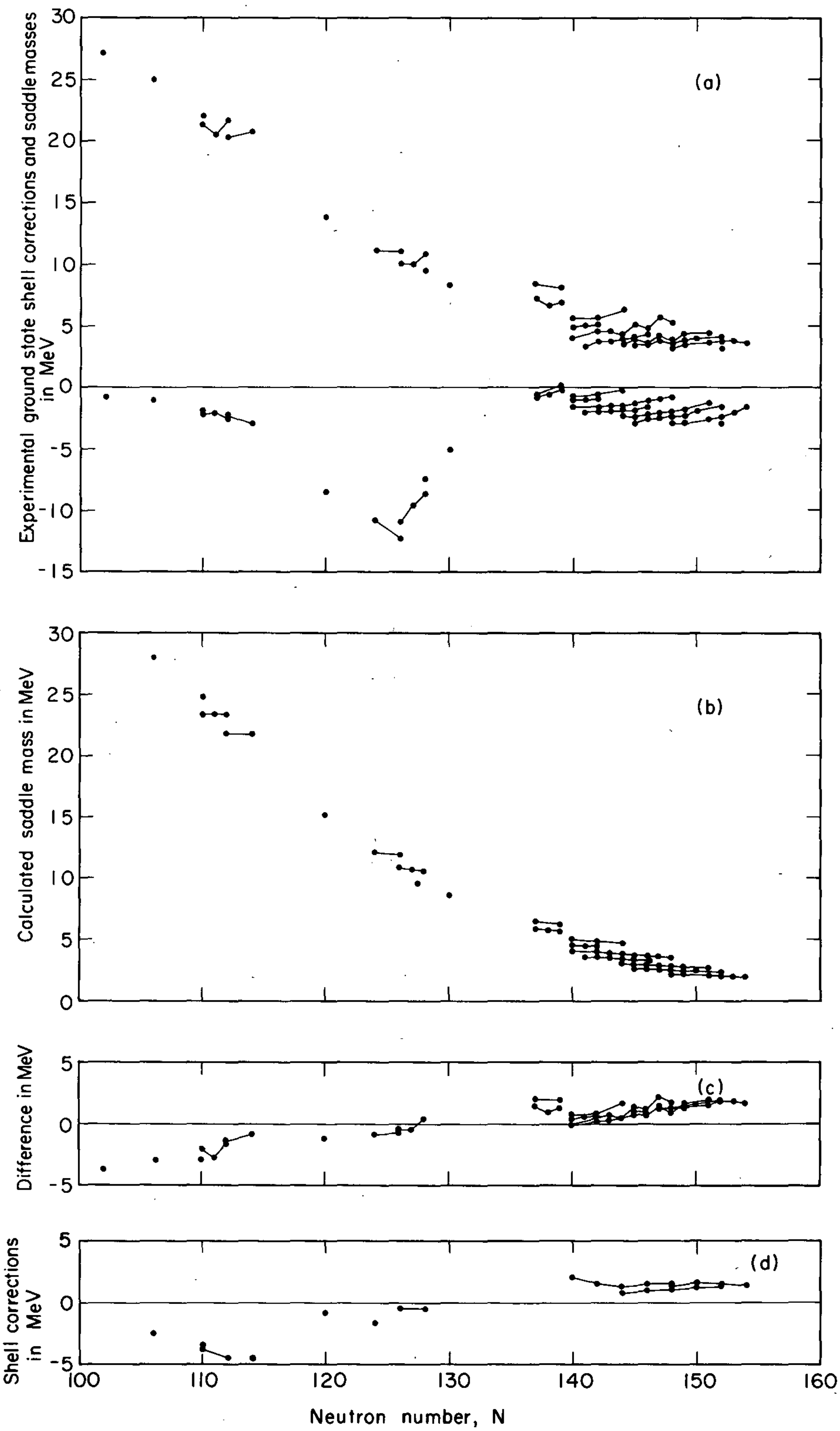

Fig. 9. Experimental and calculated saddle masses and their differences are plotted against neutron number N for nuclei listed in Table 1. The relationship between the experimental ground-state shell correction, fission barrier, and saddle mass can be seen in Fig. 10.

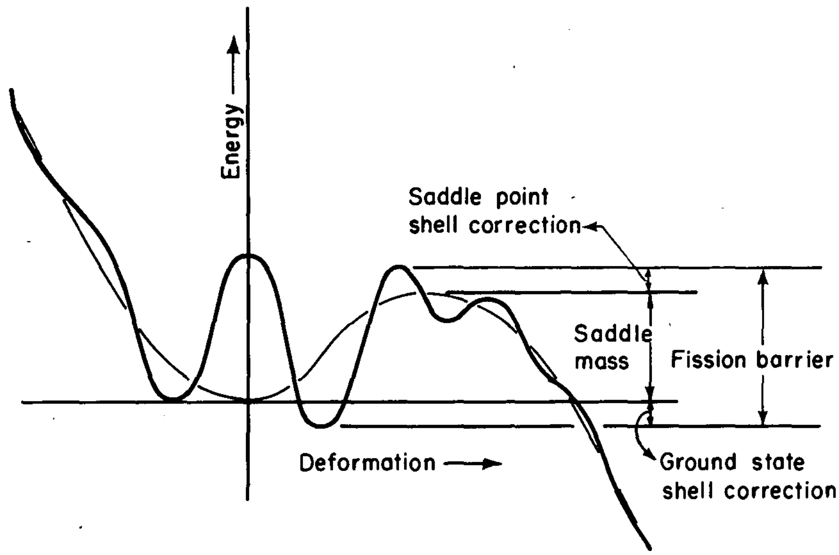

Fig. 10. Schematic diagram to show how the calculated fission barrier is related to the saddle mass and the ground-state shell correction. The figure also shows how saddle point shell effects can cause the experimental barriers to be slightly higher than might otherwise be expected.

D. Deformations

As in our previous work[13,14] one of the results of the calculation of shell effects is a prediction of nuclear ground state deformations. During the fitting procedure the calculated values were compared with the experimental ones from Ref. 51. Figure 11 shows that there is rough agreement between theory and experiment for nuclei in the rare-earth and actinide regions. The main deviations seem to be associated (as with the mass deviations) with the inability of our shell correction function to adequately portray the behavior of nuclei at the upper end of the rare-earth region.

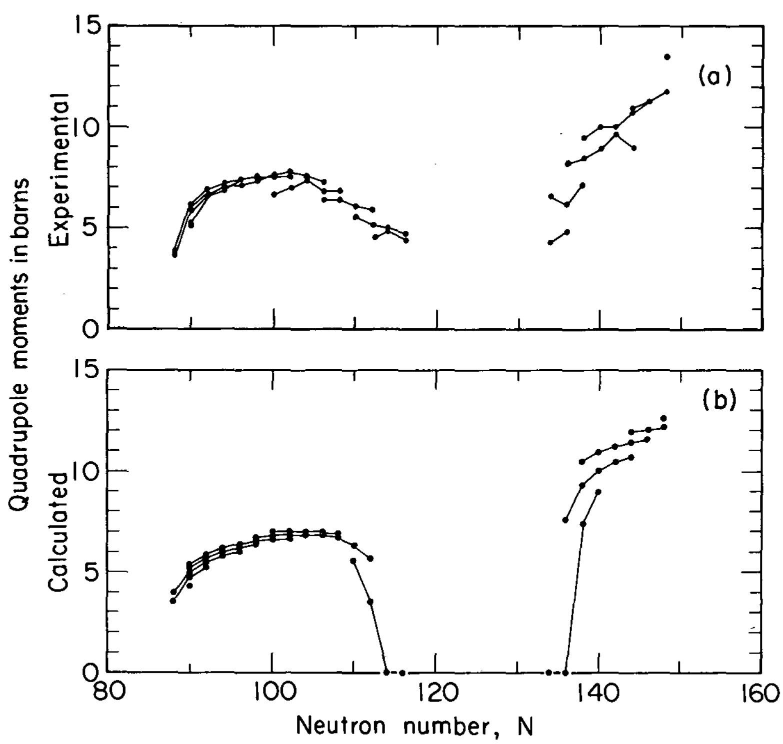

Fig. 11. Calculated and experimental quadrupole moments for nuclei in the rare-earth and actinide region are plotted against neutron number. The moments plotted are for those even-even nuclei listed in Ref. 51, with the omission of a few points with large errors whose tabulated values differed substantially from those of adjacent nuclei.

E. Radii

The Droplet Model parameters chosen to give the best fit for masses and fission barriers also lead to predictions of nuclear charge radii in quite good agreement with experiment. The Droplet Model fit seems to have resolved the discrepancy, mentioned earlier,[13,14] that existed between the nuclear radius constant inferred from a liquid drop model fit to masses and that obtained from electron scattering measurements of nuclear charge radii. Table 2 lists the calculated and experimental radii that are compared in Fig. 12. This figure also shows how the effective sharp radii of the neutron and proton distributions are expected to vary for nuclei along beta stability and how these radii are related to the radius constant r_0.

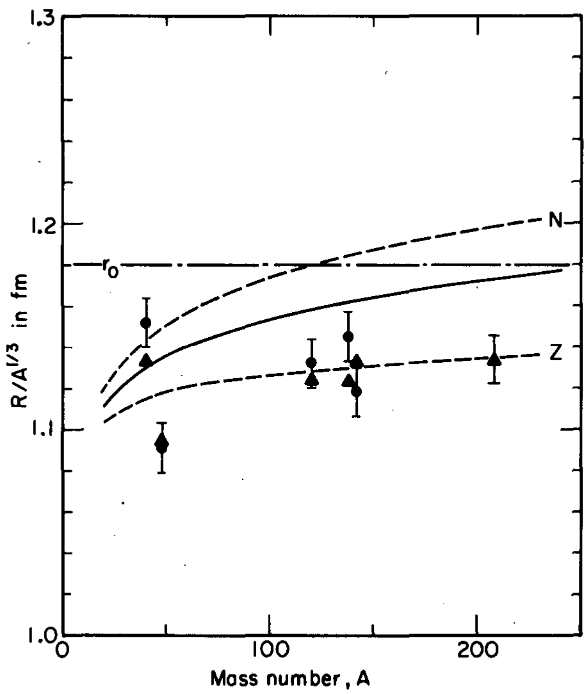

Fig. 12. Various quantities characteristic of the radial extent of spherical nuclei are plotted versus the mass number A. The dashed lines labeled N and Z correspond to the Droplet Model predictions for the quantities $(R_N/A^{1/3})$ and $(R_Z/A^{1/3})$ for nuclei along the bottom of the valley of beta stability. The solid line, which is the weighted mean of the neutron and proton lines, represents the value of $(R/A^{1/3})$ for the total nucleon density. The solid dots correspond to the experimental values of $(R_Z/A^{1/3})$ for various spherical nuclei given in Table 2. The error bars of ±0.012 fm were chosen to represent the spread in values observed in the tabulated results. Solid triangles indicate the Droplet Model value of $(R_Z/A^{1/3})$ for these same nuclei. For comparison a dot-dashed line is drawn across the figure at 1.18 fm, which is the value of r_0 [the constant related to ρ_0 by Eq. (6)] determined by the fitting procedure.

Table 2. Calculated and Experimental Nuclear Charge Radii.[a]

Nucleus	Experiment[b]	Distribution Parameters[c] c	a	w	$R_Z/A^{1/3}$ Experimental[d]		Calculated[e]
^{40}Ca	e	3.650	0.517	0	1.138	1.152	1.133
	e	3.676	0.585	−0.102	1.154		
	e,μ	3.697	0.587	−0.083	1.163		
	e	3.669	0.584	−0.102	1.152		
^{48}Ca	e	3.650	0.498	0	1.066	1.091	1.094
	e	3.744	0.526	−0.03	1.095		
	e,μ	3.797	0.534	−0.048	1.109		
	e	3.737	0.525	−0.03	1.093		
^{120}Sn	e	5.315	0.575	0	1.119	1.132	1.124
	μ	5.495	0.507	0	1.145		
^{138}Ba	μ	5.771	0.496	0	1.144	1.145	1.123
	e	5.83	0.407	0	1.146		
^{142}Nd	e	5.614	0.587	0.096	1.118		1.133
^{208}Pb	μ	6.712	0.481	0	1.152	1.134	1.133
	μ	6.659	0.514	0	1.146		
	μ	6.720	0.504	−0.061	1.154		
	e	6.47	0.523	0	1.115		
	e	6.38	0.537	0.130	1.105		
	e	6.40	0.542	0.140	1.109		
	e	6.66	0.503	0	1.145		
	e	6.597	0.550	0	1.139		
	e	6.628	0.544	−0.062	1.142		

[a]Experimental data from Table 3 of R. C. Barrett, Rep. Prog. Phys. 37, 1-54 (1974).

[b]The symbol e is used for electron scattering and μ for μ-mesic atom experiments.

[c]The charge densities were parametrized according to the expression

$$\rho_Z = \rho_C [1 + w(r/c)^2] / \{1 + \exp[(r - c)/a]\} .$$

[d]The experimental value of the effective sharp radius of the charge distribution can be calculated with the expression

$$R_Z = c \left[1 + \frac{(1 + 2w)}{(1 + w)} \cdot \frac{\pi^2}{3} \cdot (a/c)^2 + \ldots \right] \text{, see Ref. 15.}$$

[e]Eqs. (2, 3, 5, 8 and 9) are used to calculate the Droplet Model value of R_Z.

V. REMARKS

The development of the Droplet Model was originally undertaken to improve the liquid drop model approach by carrying the leptodermous expansion of nuclear properties to one higher order in $A^{1/3}$. We hoped, in this way, to help fill the gap existing between the usual liquid drop model (terms of order A and $A^{2/3}$) and the various terms of non-statistical origin such as shell effects, even-odd effects, Wigner term, etc. This work is brought to completion here with the determination of values for the various coefficients that enter and the comparison of calculated and experimental values for masses, fission barriers, and radii.

Some of the coefficients we have evaluated here (the volume energy coefficient, symmetry energy coefficient, surface energy coefficient, and nuclear radius constant, for example) may be considered constants of nature. These constants are probably more accurately determined from the experimental data when the Droplet Model is used than was possible with the liquid drop model. When the Droplet Model is used there is less need for these coefficients to assume slightly incorrect values to compensate for missing higher order terms. The Droplet Model also provides a more accurate way for extrapolating far from beta stability because of the higher order effects that are included. Since a number of higher order shape dependencies (such as the shape dependence of the Coulomb redistribution energy or surface symmetry energy) are included, the Droplet Model will be important in calculations of heavy-ion collisions where highly distroted shapes are involved.

These gains in understanding and completeness are provided by the Droplet Model at the cost of a substantial increase in the complexity of the treatment. However, the widespread availability of high-speed electronic computers makes this increased complexity tolerable for many applications.

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TABLE OF MASSES, DEFORMATIONS, FISSION BARRIERS, RADII, ETC.

A brief account is given here of the method of calculating the various entries in the table of nuclear properties which follows. The coverage of the table is from $Z = 10 \rightarrow 140$ and $N = 10 \rightarrow 210$. The region of nuclei included is also limited by the vanishing of the neutron binding energy (on the neutron-rich side of the valley of stability) and by instability against proton emission in excess of 3 MeV (on the proton-rich side).

While the headings in the table are meant to be descriptive of each column's content, an additional explanation is required in a number of cases and is given below:

DROPLET MASS

This column contains the numerical value [from Eq. (16)], in MeV, of the predicted Droplet Model mass excess for a spherical nucleus having the Z and N values given in the first two columns. (See Section III.)

CALC SHELL

This entry is the contribution to the nuclear mass excess due to the shell effects. Its value corresponds to the difference between the lowest minimum of the shape-dependent part of the mass formula, Eq. (26) and M_O, the spherical Droplet Model mass. (See Section III. A.) If the energy (mass) of the nucleus falls off monotonically with increasing deformation the words UNSTABLE AGAINST FISSION are written in this column and the remaining columns are blank.

CALC MASS

This column contains the predicted mass excess. The value is simply the sum of the values in the previous two columns.

BINDING ENERGY

The four columns under this heading contain, respectively the binding energies (in MeV) of one neutron, two neutrons, one proton and two protons calculated by using the expressions given below:

$$
\begin{aligned}
B_{\substack{\text{one}\\\text{neutron}}}(Z,N) &= [M_{calc}(Z,N-1) + 8.07169] - M_{calc}(Z,N) , \\
B_{\substack{\text{two}\\\text{neutrons}}}(Z,N) &= [M_{calc}(Z,N-2) + 16.14338] - M_{calc}(Z,N) , \\
B_{\substack{\text{one}\\\text{proton}}}(Z,N) &= [M_{calc}(Z-1,N) + 7.28922] - M_{calc}(Z,N) , \\
B_{\substack{\text{two}\\\text{protons}}}(Z,N) &= [M_{calc}(Z-2,N) + 14.57844] - M_{calc}(Z,N) .
\end{aligned}
\qquad (39)
$$

DECAY ENERGY

These three columns contain beta, electron capture, and alpha decay energies (in MeV) calculated by using the following expressions:

$$
\begin{aligned}
E_{\substack{\text{beta}\\\text{decay}}} &= M(Z,N) - M(Z+1, N-1) , \\
E_{\substack{\text{electron}\\\text{capture}}} &= M(Z,N) - M(Z-1, N+1) , \qquad (40) \\
E_{\substack{\text{alpha}\\\text{decay}}} &= M(Z,N) - [M(Z-2, N-2) + 2.42494] .
\end{aligned}
$$

GD STA DEF

This column contains the ground state deformation α corresponding to the minimum in the expression for the total energy (Droplet plus shell corrections) as a function of shape, Eq. (26). The intrinsic quadrupole moment implied by this deformation can be calculated (to second order in α) from the expression

$$
\begin{aligned}
Q_O &= 0.012(r_O A^{1/3})^2 Z\alpha(1 + \frac{4}{7}\alpha) , \\
&= 0.0167\ A^{2/3} Z\alpha(1 + 0.57\alpha)\ \text{barns} . \qquad (41)
\end{aligned}
$$

SADDLE

The three columns under this heading contain information concerning the calculation of fission barriers. For very light nuclei these columns are blank. For the heavier nuclei the entry in the first column (labeled MASS is the "saddle mass" (see Fig. 10) calculated by using a simple one-dimensional family of shapes. (The shapes employed were from the so called "y-family." This family consists of the sequence of liquid drop model saddle point shapes for different values of the fissility parameter x. The quantity y is defined as $y = 1 - x$ and a table of the corresponding values of the shape-dependent quatities B_i can be found in Ref. 16.) If the index appearing in the column labeled with the letter I is 1, 2, or 3 the saddle mass was calculated by perturbation, the final value being calculated for a saddle point shape that was found initially by using only the shape-dependent factors B_S and B_C. [See Eq. (15).] When the index is 4 all the B's are varied in the search for the saddle point. Regardless of which method is used, the value of y corresponding to the saddle point shape is given in the column labeled DEF.

The value of the fission barrier may be estimated by (algebraically) subtracting the ground state shell effects from the saddle mass. Use the experimental shell effect (from the next to last column in the table) if it is available, otherwise the calculated shell effect should be used. The need, in some cases, for corrections to the barrier due to saddle point shell effects is briefly discussed in Section IV. C, but a general treatment of such corrections beyond the scope of this work.

When the pure Droplet Model saddle mass drops below 0.5 MeV for the heaviest nuclei, an alternative procedure is used in order to better delineate the limits of stability against fission. In these cases the value given corresponds to the difference between the maximum value of the shape-dependent part of the mass formula given by Eq. (26) and the spherical Droplet Model mass M_O. The column DEF contains the saddle point deformation α [See Eq. (23)], followed by the letters ALP . Just as before, the fission barrier is calculated by (algebraically) subtracting the ground-state shell corrections from the tabulated value of the saddle mass.

Of course, if the energy (mass) decreases monotonically with increasing deformation, then no ground state or barrier exists. In these cases the words UNSTABLE AGAINST FISSION are written after the DROPLET MASS entry and the remaining columns are blank.

SHARP RADIUS

These two columns contain the calculated equivalent sharp radii, in Fermi, of the neutron and proton density distributions calculated by using the following expressions:

$$\begin{aligned} R &= r_O A^{1/3}(1 + \bar{\epsilon}) , \\ t &= 2/3\ (I - \bar{\delta})R , \\ R_N &= R + (Z/A) \cdot t , \\ R_Z &= R - (N/A) \cdot t , \end{aligned} \qquad (42)$$

where $\bar{\delta}$ and $\bar{\epsilon}$ are given by Eqs. (2) and (3). To lowest order in the ratio of the diffuseness b to the radius R (See Ref. 27 for definitions of these quantities) the location of the surface C (the half-value radius for a Fermi function) and the rms equivalent radius Q (equal to $5/3 \langle r^2 \rangle$) may be obtained from the following expressions:[27]

$$\begin{aligned} C_{\substack{N\\Z}} &= R_{\substack{N\\Z}} \left[1 - (b/R_{\substack{N\\Z}})^2 + \ldots\right] , \\ Q_{\substack{N\\Z}} &= R_{\substack{N\\Z}} \left[1 + \frac{5}{2} (b/R_{\substack{N\\Z}})^2 + \ldots\right] , \end{aligned} \qquad (43)$$

where $b \approx 1$ fm.

EXPERIMENTAL

The first of these three columns contains the experimental mass excess, in MeV, given by Wapstra and Gove[41] if it is available. The second column contains the ground-state shell effect obtained by subtracting the Droplet mass (in the fourth column of the table) from the experimental mass. The last column is the difference between the experimental mass and the calculated mass.

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
10	10	20	-7.34	-2.08	-9.42	15.49	26.66	12.31	20.64	-12.48	-7.35	-5.71				3.01	3.02	-7.04	.30	2.38
10	11	21	-5.47	-2.09	-7.56	6.21	21.70	12.78	23.79	-2.73	-5.05	-7.84				3.10	3.04	-5.73	-.26	1.83
10	12	22	-7.82	-2.46	-10.28	10.78	17.00	15.06	26.51	-3.36	-11.19	-9.35				3.18	3.06	-8.03	-.21	2.25
10	13	23	-4.12	-3.14	-7.26	5.05	15.84	15.46	29.31	4.17	-8.79	-11.34				3.25	3.07	-5.15	-1.03	2.11
10	14	24	-4.60	-4.09	-8.69	9.51	14.56	17.51	31.72	1.94	-17.47	-12.77				3.32	3.09	-5.95	-1.35	2.74
10	15	25	.57	-2.44	-1.87	1.25	10.76	17.94	34.37	10.58	-14.91	-11.76				3.38	3.10			
10	16	26	1.62	-1.17	.45	5.75	7.00	19.87	36.69	8.18	-20.27	-10.42				3.44	3.12			
10	17	27	8.00	-.22	7.78	.75	6.49	20.23	39.05	13.58	-17.66	-12.57				3.50	3.13			
10	18	28	10.33	.42	10.75	5.10	5.85	21.98	41.10	11.14	-22.73	-14.24				3.56	3.15			
10	19	29	17.72	.78	18.50	.32	5.42	22.27	43.22	16.26	-20.10	-16.17				3.61	3.16			
10	20	30	21.12	.89	22.01	4.56	4.88	23.88	45.07	13.78	-24.95	-17.69				3.67	3.18			
10	22	32	33.69	.42	34.11	4.08	4.04	25.60	48.65	16.16	-26.94	-20.82				3.76	3.21			
10	24	34	47.78	-.85	46.93	3.67	3.32	27.17	51.91	18.31	-28.74	-23.68				3.86	3.24			
10	26	36	63.19	-2.80	60.39	3.30	2.69	28.61	54.87	20.28	-30.38	-26.29				3.95	3.27			
10	28	38	79.76	-5.35	74.41	2.97	2.13	29.92	57.59	22.08	-35.04	-28.70				4.03	3.30			

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

11	10	21	-2.74	-2.09	-4.83	15.97	29.81	2.70	15.01	-10.50	2.74	-7.17				3.03	3.11	-2.18	.56	2.65
11	11	22	-4.81	-2.11	-6.92	10.16	26.12	6.64	19.43	-2.43	3.36	-8.34				3.12	3.13	-5.18	-.37	1.74
11	12	23	-8.96	-2.47	-11.43	12.58	22.74	8.44	23.50	-3.06	-4.17	-9.45				3.20	3.14	-9.53	-.57	1.90
11	13	24	-7.50	-3.12	-10.62	7.27	19.84	10.66	26.11	5.60	-1.93	-10.97				3.27	3.16	-8.42	-.92	2.20
11	14	25	-8.39	-4.06	-12.45	9.89	17.17	11.04	28.56	3.37	-10.58	-12.36				3.34	3.18	-9.36	-.97	3.09
11	15	26	-5.27	-2.45	-7.72	3.35	13.23	13.14	31.08	11.84	-8.18	-11.06				3.41	3.19	-7.51	-2.24	.21
11	16	27	-4.59	-1.21	-5.80	6.14	9.50	13.54	33.41	9.48	-13.58	-9.75				3.47	3.21	-6.58	-1.99	-.78
11	17	28	-.10	-.28	-.38	2.66	8.80	15.45	35.68	14.80	-11.13	-11.58				3.53	3.22			
11	18	29	1.89	.34	2.23	5.45	8.12	15.80	37.78	12.37	-16.26	-13.23				3.58	3.23			
11	19	30	7.54	.70	8.24	2.07	7.52	17.55	39.82	17.44	-13.77	-14.90				3.64	3.25			
11	20	31	10.65	.80	11.45	4.85	6.93	17.84	41.73	14.98	-18.67	-16.41				3.69	3.26			
11	21	32	17.27	.68	17.95	1.57	6.43	19.45	43.59	19.81	-16.16	-17.96				3.74	3.28			
11	22	33	21.34	.35	21.69	4.33	5.91	19.71	45.31	17.34	-20.84	-19.34				3.79	3.29			
11	23	34	28.80	-.18	28.62	1.14	5.47	21.19	47.01	21.97	-18.31	-20.76				3.84	3.31			
11	24	35	33.70	-.89	32.81	3.88	5.02	21.41	48.58	19.48	-22.81	-22.04				3.88	3.32			
11	25	36	41.88	-1.77	40.11	.77	4.65	22.80	50.14	23.93	-20.28	-23.36				3.93	3.33			
11	26	37	47.51	-2.81	44.70	3.48	4.25	22.98	51.59	21.43	-24.61	-24.54				3.97	3.35			
11	27	38	56.32	-3.99	52.33	.44	3.92	24.27	53.02	25.72	-22.08	-25.77				4.01	3.36			
11	28	39	62.59	-5.31	57.28	3.12	3.57	24.42	54.34	23.23	-29.37	-26.86				4.06	3.38			

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12	10	22	-2.03	-2.46	-4.49	18.24	32.52	6.95	9.64	-16.95	2.43	-8.02				3.05	3.19	-.38	1.65	4.11
12	11	23	-5.91	-2.47	-8.38	11.96	30.20	8.74	15.39	-10.28	3.05	-8.80				3.14	3.21	-5.47	.44	2.91
12	12	24	-13.42	-2.80	-16.22	15.92	27.88	12.08	20.52	-12.02	-5.59	-9.22				3.22	3.23	-13.93	-.51	2.29
12	13	25	-12.39	-3.44	-15.83	7.68	23.60	12.49	23.15	-3.37	-3.38	-10.69				3.29	3.24	-13.19	-.80	2.64
12	14	26	-15.23	-4.34	-19.57	11.81	19.50	14.41	25.46	-4.20	-11.84	-11.72				3.36	3.26	-16.21	-.98	3.36
12	15	27	-12.51	-2.77	-15.28	3.78	15.60	14.84	27.99	5.36	-9.48	-10.45				3.43	3.27	-14.58	-2.07	.70
12	16	28	-13.63	-1.54	-15.17	7.97	11.75	16.66	30.21	3.15	-14.78	-8.90				3.49	3.29	-15.02	-1.39	.15
12	17	29	-9.51	-.63	-10.14	3.04	11.01	17.05	32.50	8.49	-12.38	-10.69				3.55	3.30			
12	18	30	-9.18	-.02	-9.20	7.12	10.17	18.72	34.53	6.21	-17.43	-12.08				3.61	3.32			
12	19	31	-3.87	.34	-3.53	2.40	9.53	19.05	36.60	11.29	-14.98	-13.74				3.66	3.33			
12	20	32	-2.31	.45	-1.86	6.40	8.80	20.60	38.45	8.97	-19.81	-15.03				3.71	3.35			
12	21	33	4.01	.34	4.35	1.86	8.26	20.89	40.35	13.83	-17.34	-16.57				3.76	3.36			
12	22	34	6.63	.02	6.65	5.77	7.63	22.33	42.04	11.48	-21.97	-17.78				3.81	3.37			
12	23	35	13.82	-.49	13.33	1.39	7.16	22.58	43.77	16.14	-19.48	-19.21				3.86	3.39			
12	24	36	17.37	-1.18	16.19	5.21	6.60	23.91	45.32	13.77	-23.92	-20.34				3.91	3.40			
12	25	37	25.31	-2.04	23.27	.99	6.20	24.13	46.93	18.24	-21.43	-21.68				3.95	3.41			
12	26	38	29.67	-3.05	26.62	4.72	5.71	25.38	48.35	15.86	-25.71	-22.74				4.00	3.43			
12	27	39	38.27	-4.21	34.06	.63	5.35	25.57	49.83	20.18	-23.22	-23.98				4.04	3.44			
12	28	40	43.34	-5.51	37.83	4.29	4.93	26.74	51.16	17.78	-30.43	-24.99				4.08	3.46			
12	30	42	58.23	-2.56	55.67	.99	-1.69	28.09	53.96	22.51	-31.84	-21.17				4.16	3.49			
12	32	44	74.21	-.42	73.79	.81	-1.97	29.34	56.52	24.07	-33.14	-23.68				4.24	3.51			
12	34	46	91.15	.99	92.14	.65	-2.21	30.50	58.86	25.51	-34.16	-26.02				4.31	3.54			
12	36	48	108.96	1.58	110.54	.65	-2.26	31.30	60.65	26.68	-35.03	-28.31	.13			4.38	3.57			
12	38	50	127.55	1.57	129.12	.43	-2.44	32.25	62.63	27.76	-36.25	-29.92	.15			4.45	3.60			
12	40	52	146.87	1.38	148.25	.13	-2.98	33.24	64.63	29.11	-37.46	-31.34	.13			4.52	3.63			
12	42	54	166.83	.70	167.53	.11	-3.14	34.41	66.85	30.36	-38.42	-33.19				4.58	3.66			
12	44	56	187.38	-.59	186.79	.04	-3.12	35.25	68.63	31.38	-39.29	-35.44				4.65	3.69			

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13	10	23	5.04	-3.14	1.90	18.63	35.30	.90	7.84	-14.84	10.27	-9.37				3.07	3.27	6.77	1.73	4.87
13	11	24	-1.08	-3.12	-4.20	14.17	32.81	3.12	11.86	-8.33	12.02	-9.69				3.16	3.29	-.05	1.03	4.15
13	12	25	-9.02	-3.44	-12.46	16.32	30.50	3.53	15.61	-10.11	3.36	-10.05				3.24	3.30	-8.91	.11	3.55
13	13	26	-11.33	-4.04	-15.37	10.98	27.31	6.83	19.32	-2.85	4.19	-10.88				3.31	3.32	-12.21	-.88	3.16
13	14	27	-15.74	-4.90	-20.64	13.34	24.33	8.37	22.77	-3.67	-5.36	-11.64				3.38	3.34	-17.20	-1.46	3.44
13	15	28	-14.97	-3.36	-18.33	5.76	19.10	10.34	25.18	6.78	-3.15	-10.13				3.45	3.35	-16.85	-1.88	1.48
13	16	29	-16.48	-2.15	-18.63	8.38	14.13	10.74	27.41	4.58	-8.49	-8.61				3.51	3.37	-18.21	-1.73	.42
13	17	30	-14.16	-1.25	-15.41	4.85	13.23	12.55	29.60	9.83	-6.21	-10.11				3.57	3.38	-15.89	-1.73	-.48
13	18	31	-14.19	-.63	-14.82	7.48	12.34	12.91	31.64	7.58	-11.29	-11.45				3.63	3.40			
13	19	32	-10.57	-.27	-10.84	4.09	11.58	14.59	33.65	12.58	-8.98	-12.88				3.68	3.41			
13	20	33	-9.34	-.15	-9.49	6.72	10.81	14.91	35.52	10.28	-13.84	-14.15				3.74	3.42			
13	21	34	-4.59	-.24	-4.83	3.42	10.14	16.47	37.36	15.08	-11.48	-15.49				3.79	3.44			
13	22	35	-2.26	-.55	-2.81	6.05	9.47	16.75	39.08	12.76	-16.14	-16.69				3.84	3.45			
13	23	36	3.46	-1.04	2.42	2.84	8.89	18.19	40.78	17.36	-13.76	-17.96				3.88	3.46			
13	24	37	6.73	-1.71	5.02	5.47	8.31	18.45	42.37	15.01	-18.25	-19.10				3.93	3.48			
13	25	38	13.30	-2.54	10.76	2.34	7.80	19.80	43.93	19.44	-15.85	-20.28				3.97	3.49			
13	26	39	17.41	-3.53	13.88	4.95	7.29	20.02	45.40	17.08	-20.17	-21.36				4.02	3.50			
13	27	40	24.71	-4.66	20.05	1.91	6.85	21.29	46.86	21.35	-17.78	-22.49				4.06	3.52			
13	28	41	29.57	-5.93	23.64	4.48	6.39	21.48	48.22	18.99	-24.96	-23.49				4.10	3.53			
13	30	43	43.04	-3.01	40.03	1.21	-.25	22.94	51.03	23.66	-26.50	-19.67				4.18	3.56			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
13	32	45	57.68	-.89	56.79	1.01	-.61	24.29	53.63	25.20	-27.93	-22.11				4.26	3.59			
13	34	47	73.37	.51	73.88	.82	-.94	25.54	56.04	26.63	-29.24	-24.38				4.33	3.61			
13	36	49	90.01	1.27	91.28	.65	-1.25	26.55	57.85	27.97	-30.20	-26.49				4.40	3.64			
13	38	51	107.50	1.41	108.91	.52	-1.49	27.50	59.76	29.18	-31.39	-28.07	.09			4.47	3.67			
13	40	53	125.77	1.10	126.87	.34	-1.82	28.66	61.91	30.39	-32.70	-29.64				4.54	3.70			
13	42	55	144.74	.27	145.01	.23	-2.00	29.80	64.21	31.47	-33.75	-31.62				4.60	3.73			
13	44	57	164.36	-.99	163.37	.11	-2.22	30.71	65.96	32.50	-34.70	-33.70				4.67	3.76			
13	46	59	184.58	-2.66	181.92		-2.41	31.57	67.60	33.47	-35.59	-35.26				4.73	3.79			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	NEU	PRO	EXP MASS	SHELL	DIFF
14	10	24	8.22	-4.09	4.13	20.68	37.71	5.06	5.96	-23.80	8.33	-10.18				3.09	3.34	10.76	2.54	6.63
14	11	25	1.70	-4.06	-2.36	14.55	35.24	5.44	8.57	-17.26	10.10	-10.46				3.17	3.36	3.82	2.12	6.18
14	12	26	-8.19	-4.34	-12.53	18.24	32.80	7.36	10.89	-18.86	2.84	-10.47				3.25	3.38	-7.15	1.04	5.38
14	13	27	-12.07	-4.90	-16.97	12.52	30.76	8.89	15.72	-12.70	3.67	-11.02				3.33	3.39	-12.39	-.32	4.58
14	14	28	-19.38	-5.72	-25.10	16.21	28.72	11.75	20.11	-14.42	-6.78	-11.31				3.40	3.41	-21.49	-2.11	3.61
14	15	29	-19.01	-4.20	-23.21	6.17	22.38	12.17	22.51	-3.97	-4.58	-9.81				3.47	3.43	-21.89	-2.88	1.32
14	16	30	-22.24	-3.00	-25.24	10.10	16.28	13.90	24.64	-4.93	-9.83	-8.10				3.53	3.44	-24.43	-2.19	.81
14	17	31	-20.30	-2.10	-22.40	5.23	15.33	14.28	26.84	1.39	-7.58	-9.55				3.59	3.46	-22.95	-2.65	-.55
14	18	32	-21.94	-1.48	-23.42	9.09	14.32	15.88	28.80	-.70	-12.59	-10.67				3.65	3.47	-24.09	-2.15	-.67
14	19	33	-18.67	-1.11	-19.78	4.43	13.52	16.23	30.82	4.37	-10.30	-12.06				3.70	3.48			
14	20	34	-18.94	-.97	-19.91	8.21	12.63	17.72	32.63	2.24	-15.08	-13.14				3.76	3.50			
14	21	35	-14.52	-1.05	-15.57	3.73	11.94	18.03	34.49	7.09	-12.76	-14.46				3.81	3.51			
14	22	36	-13.61	-1.33	-14.94	7.44	11.17	19.42	36.17	4.92	-17.36	-15.50				3.86	3.52			
14	23	37	-8.19	-1.80	-9.99	3.12	10.56	19.70	37.89	9.58	-15.02	-16.76				3.90	3.54			
14	24	38	-6.24	-2.44	-8.68	6.77	9.88	21.00	39.44	7.38	-19.44	-17.75				3.95	3.55			
14	25	39	.05	-3.25	-3.20	2.59	9.35	21.25	41.04	11.86	-17.08	-18.95				4.00	3.56			
14	26	40	2.92	-4.21	-1.29	6.16	8.75	22.46	42.48	9.64	-21.34	-19.90				4.04	3.58			
14	27	41	9.97	-5.31	4.66	2.12	8.28	22.69	43.97	13.96	-18.98	-21.03				4.08	3.59			
14	28	42	13.64	-6.55	7.09	5.64	7.76	23.84	45.32	11.72	-26.07	-21.95				4.12	3.60			
14	30	44	25.77	-3.66	22.11	2.33	1.13	25.21	48.15	16.52	-27.61	-18.15				4.20	3.63			
14	32	46	39.15	-1.55	37.60	2.07	.66	26.49	50.77	18.23	-29.03	-20.50				4.28	3.66			
14	34	48	53.65	-.15	53.50	1.83	.24	27.68	53.21	19.82	-30.36	-22.71				4.35	3.68			
14	36	50	69.17	.61	69.78	1.60	-.14	28.78	55.34	21.30	-31.58	-24.78				4.43	3.71			
14	38	52	85.60	.81	86.41	1.40	-.49	29.79	57.30	22.75	-32.73	-26.55				4.49	3.74			
14	40	54	102.86	.48	103.34	1.22	-.79	30.81	59.48	24.04	-33.83	-28.21				4.56	3.77			
14	42	56	120.89	-.32	120.57	1.04	-1.09	31.73	61.53	25.22	-34.84	-30.10				4.63	3.79			
14	44	58	139.61	-1.56	138.05	.89	-1.34	32.61	63.32	26.37	-35.80	-31.90				4.69	3.82			
14	46	60	158.97	-3.20	155.77	.75	-1.58	33.43	65.01	27.44	-36.70	-33.45				4.75	3.85			
14	48	62	178.93	-5.20	173.73	.60	-1.81	34.20	66.59	28.48	-37.54	-34.89				4.81	3.88			
14	50	64	199.42	-7.54	191.88	.48	-2.01	34.94	68.09	29.44	-41.13	-36.28				4.87	3.91			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	NEU	PRO	EXP MASS	SHELL	DIFF
15	11	26	8.78	-2.45	6.33	16.65	37.75	-1.39	4.04	-15.14	18.85	-8.56				3.19	3.43			
15	12	27	-1.50	-2.77	-4.27	18.67	35.32	-.97	6.39	-16.78	12.70	-8.59				3.27	3.45	.21	1.71	4.48
15	13	28	-7.32	-3.36	-10.68	14.48	33.15	1.00	9.89	-10.76	14.43	-8.90				3.35	3.46	-7.15	.17	3.53
15	14	29	-15.04	-4.20	-19.24	16.63	31.12	1.42	13.18	-12.51	3.97	-9.21				3.42	3.48	-16.95	-1.91	2.29
15	15	30	-17.57	-2.74	-20.31	9.14	25.77	4.39	16.57	-3.30	4.93	-7.37				3.48	3.50	-20.20	-2.63	.11
15	16	31	-22.19	-1.60	-23.79	11.55	20.69	5.84	19.74	-4.26	-1.39	-5.57				3.55	3.51	-24.44	-2.25	-.65
15	17	32	-21.97	-.75	-22.72	7.00	18.55	7.61	21.89	2.90	.70	-6.82				3.61	3.53	-24.30	-2.33	-1.58
15	18	33	-23.98	-.17	-24.15	9.50	16.50	8.02	23.90	.82	-4.38	-7.95				3.67	3.54	-26.34	-2.36	-2.19
15	19	34	-22.32	.17	-22.15	6.07	15.57	9.67	25.89	5.82	-2.24	-9.17				3.72	3.55	-24.83	-2.51	-2.68
15	20	35	-22.94	.28	-22.66	8.58	14.66	10.04	27.76	3.69	-7.09	-10.26				3.77	3.57			
15	21	36	-20.03	.18	-19.85	5.26	13.84	11.57	29.60	8.49	-4.91	-11.44				3.83	3.58			
15	22	37	-19.44	-.12	-19.56	7.78	13.04	11.91	31.33	6.33	-9.57	-12.50				3.88	3.59			
15	23	38	-15.45	-.61	-16.06	4.56	12.35	13.36	33.06	10.91	-7.38	-13.65				3.92	3.61			
15	24	39	-13.80	-1.26	-15.06	7.07	11.64	13.67	34.67	8.73	-11.86	-14.68				3.97	3.62			
15	25	40	-8.86	-2.07	-10.93	3.95	11.02	15.02	36.26	13.16	-9.63	-15.77				4.02	3.63			
15	26	41	-6.27	-3.04	-9.31	6.45	10.40	15.30	37.77	10.95	-13.96	-16.76				4.06	3.64			
15	27	42	-.49	-4.14	-4.63	3.40	9.84	16.57	39.26	15.23	-11.72	-17.81				4.10	3.66			
15	28	43	2.94	-5.38	-2.44	5.88	9.28	16.82	40.66	13.01	-18.81	-18.75				4.14	3.67			
15	29	44	9.46	-3.87	5.59	.04	5.93	18.07	42.15	20.01	-16.52	-16.89				4.18	3.68			
15	30	45	13.63	-2.57	11.06	2.60	2.64	18.34	43.55	17.74	-20.53	-15.01				4.22	3.70			
15	32	47	25.66	-.52	25.14	2.30	2.07	19.75	46.23	19.44	-22.11	-17.32				4.30	3.72			
15	34	49	38.89	.83	39.72	2.03	1.56	21.07	48.74	21.02	-23.59	-19.50				4.37	3.75			
15	36	51	53.19	1.56	54.75	1.80	1.11	22.32	51.11	22.59	-24.98	-21.56	.05			4.45	3.78			
15	38	53	68.48	1.66	70.14	1.60	.75	23.55	53.35	24.19	-26.34	-23.56	.10			4.51	3.80			
15	40	55	84.67	1.38	86.05	1.33	.24	24.58	55.39	25.54	-27.49	-25.29	.05			4.58	3.83			
15	42	57	101.67	.57	102.24	1.18	-.05	25.62	57.35	26.47	-28.63	-27.05				4.65	3.86			
15	44	59	119.42	-.68	118.74	1.01	-.36	26.59	59.20	27.51	-29.71	-28.69				4.71	3.88			
15	46	61	137.86	-2.31	135.55	.85	-.66	27.52	60.94	28.60	-30.71	-30.24				4.77	3.91			
15	48	63	156.93	-4.31	152.62	.71	-.93	28.40	62.60	29.62	-31.67	-31.72				4.83	3.94			
15	50	65	176.59	-6.65	169.94	.57	-1.18	29.23	64.17	30.58	-35.33	-33.13				4.89	3.96			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	NEU	PRO	EXP MASS	SHELL	DIFF
16	10	26	22.64	-1.17	21.47	23.02	42.64	.72	-2.76	-27.15	15.14	-6.65				3.12	3.47			
16	11	27	13.71	-1.21	12.50	17.04	40.07	1.11	-.27	-20.82	16.77	-6.66				3.21	3.49			
16	12	28	1.63	-1.54	.09	20.49	37.53	2.93	1.97	-22.35	10.77	-6.46				3.29	3.51			
16	13	29	-4.58	-2.15	-6.73	14.88	35.38	3.34	4.34	-16.38	12.51	-6.80				3.36	3.53	-3.15	1.43	3.58
16	14	30	-14.01	-3.00	-17.01	18.35	33.24	5.06	6.48	-18.04	3.30	-6.91				3.43	3.55	-14.06	-.06	2.94
16	15	31	-17.93	-1.60	-19.53	10.59	28.95	6.51	10.90	-9.90	4.26	-4.99				3.50	3.56	-19.00	-1.07	.53
16	16	32	-25.12	-.51	-25.63	14.17	24.76	9.13	14.97	-11.71	-2.91	-2.95				3.57	3.58	-26.01	-.89	-.38
16	17	33	-25.27	.30	-24.97	7.42	21.58	9.54	17.15	-4.54	-.82	-4.19				3.63	3.59	-26.59	-1.32	-1.62
16	18	34	-28.82	.85	-27.97	11.07	18.49	11.11	19.13	-5.60	-5.82	-5.15				3.68	3.61	-29.93	-1.11	-1.96
16	19	35	-27.52	1.16	-26.36	6.46	17.53	11.50	21.16	.28	-3.70	-6.38				3.74	3.62	-28.85	-1.33	-2.49
16	20	36	-29.59	1.25	-28.34	10.06	16.52	12.97	23.01	-1.75	-8.48	-7.34				3.79	3.63	-30.67	-1.08	-2.33
16	21	37	-27.02	1.13	-25.89	5.62	15.68	13.32	24.90	3.05	-6.32	-8.54				3.84	3.65	-26.91	.11	-1.02

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
16	22	38	-27.80	.82	-26.98	9.16	14.79	14.70	26.62	.98	-10.92	-9.49				3.89	3.66	-26.86	.94	.12
16	23	39	-24.12	.33	-23.79	4.88	14.05	15.02	28.38	5.60	-8.73	-10.65				3.94	3.67			
16	24	40	-23.77	-.33	-24.10	8.38	13.27	16.33	30.00	3.49	-13.17	-11.59				3.99	3.69			
16	25	41	-19.12	-1.14	-20.26	4.24	12.61	16.62	31.64	7.94	-10.96	-12.70				4.03	3.70			
16	26	42	-17.75	-2.10	-19.85	7.67	11.90	17.84	33.13	5.83	-15.22	-13.59				4.08	3.71			
16	27	43	-12.24	-3.21	-15.45	3.66	11.33	18.11	34.68	10.11	-13.01	-14.67				4.12	3.72			
16	28	44	-9.98	-4.44	-14.42	7.04	10.71	19.27	36.09	7.98	-20.01	-15.55				4.16	3.74			
16	29	45	-3.71	-2.97	-6.68	.33	7.37	19.56	37.63	14.95	-17.75	-13.76				4.20	3.75			
16	30	46	-.64	-1.70	-2.34	3.73	4.06	20.69	39.03	12.76	-21.71	-11.86				4.24	3.76			
16	31	47	6.31	-.61	5.70	.03	3.76	20.96	40.47	16.74	-19.44	-13.10				4.28	3.77			
16	32	48	10.10	.29	10.39	3.38	3.41	22.03	41.79	14.54	-23.29	-14.15				4.32	3.79			
16	34	50	22.12	1.61	23.73	3.05	2.81	23.28	44.35	16.22	-24.75	-16.29				4.39	3.81			
16	36	52	35.28	2.03	37.31	2.92	2.55	24.73	47.05	17.89	-26.35	-18.61	.13			4.47	3.84			
16	38	54	49.48	2.02	51.50	2.52	1.95	25.93	49.48	19.57	-27.80	-20.71	.15			4.53	3.86			
16	40	56	64.63	1.84	66.47	2.11	1.17	26.87	51.45	21.10	-28.88	-22.36	.13			4.60	3.89			
16	42	58	80.65	1.27	81.92	1.92	.69	27.60	53.22	22.26	-29.76	-23.85				4.66	3.92			
16	44	60	97.47	.03	97.50	1.80	.57	28.54	55.13	23.14	-30.83	-25.49				4.73	3.94			
16	46	62	115.01	-1.61	113.40	1.61	.24	29.43	56.96	24.28	-31.85	-27.08				4.79	3.97			
16	48	64	133.24	-3.60	129.64	1.43	-.09	30.27	58.67	25.38	-32.80	-28.56				4.85	3.99			
16	50	66	152.09	-5.93	146.16	1.26	-.38	31.07	60.30	26.41	-36.43	-29.99				4.91	4.02			

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17	11	28	22.73	-.28	22.45	18.94	42.31	-2.65	-1.54	-18.62	22.37	-7.91				3.23	3.55			
17	12	29	10.28	-.63	9.65	20.87	39.81	-2.27	.66	-20.21	16.38	-7.68				3.31	3.57			
17	13	30	2.28	-1.25	1.03	16.69	37.56	-.47	2.87	-14.37	18.04	-7.73				3.38	3.59			
17	14	31	-7.53	-2.10	-9.63	18.73	35.42	-.09	4.97	-16.05	9.90	-7.79				3.45	3.61	-7.20	.33	2.43
17	15	32	-13.17	-.75	-13.92	12.36	31.09	1.68	8.19	-8.08	11.70	-5.66				3.52	3.63	-13.26	-.09	.66
17	16	33	-20.73	.30	-20.43	14.58	26.94	2.09	11.22	-9.90	4.54	-3.62				3.58	3.64	-21.00	-.27	-.57
17	17	34	-23.45	1.08	-22.37	10.02	24.60	4.69	14.23	-3.77	5.60	-4.48				3.64	3.66	-24.44	-.99	-2.07
17	18	35	-28.25	1.61	-26.64	12.34	22.36	5.97	17.07	-4.82	-.29	-5.27				3.70	3.67	-29.01	-.76	-2.37
17	19	36	-28.49	1.90	-26.59	8.02	20.36	7.53	19.02	1.82	1.75	-6.29				3.76	3.68	-29.52	-1.03	-2.93
17	20	37	-30.91	1.97	-28.94	10.42	18.44	7.89	20.86	-.15	-3.05	-7.22				3.81	3.70	-31.76	-.85	-2.82
17	21	38	-29.80	1.84	-27.96	7.09	17.51	9.36	22.68	4.60	-.99	-8.24				3.86	3.71	-29.80	0.	-1.84
17	22	39	-30.91	1.52	-29.39	9.50	16.59	9.70	24.40	2.50	-5.60	-9.15				3.91	3.72	-29.80	1.11	-.41
17	23	40	-28.62	1.03	-27.59	6.27	15.77	11.09	26.11	7.01	-3.50	-10.16				3.96	3.74	-27.54	1.08	.05
17	24	41	-28.57	.37	-28.20	8.68	14.96	11.40	27.72	4.92	-7.94	-11.06				4.01	3.75			
17	25	42	-25.24	-.44	-25.68	5.55	14.23	12.71	29.33	9.31	-5.82	-12.05				4.05	3.76			
17	26	43	-24.16	-1.40	-25.56	7.95	13.50	12.99	30.84	7.20	-10.11	-12.93				4.10	3.77			
17	27	44	-19.90	-2.50	-22.40	4.91	12.86	14.24	32.35	11.44	-7.98	-13.90				4.14	3.79			
17	28	45	-17.91	-3.72	-21.63	7.31	12.21	14.50	33.77	9.32	-14.95	-14.75				4.18	3.80			
17	29	46	-12.82	-2.28	-15.10	1.54	8.85	15.72	35.27	16.21	-12.76	-12.90				4.22	3.81			
17	30	47	-10.00	-1.04	-11.04	4.01	5.55	15.99	36.69	14.04	-16.74	-11.03				4.26	3.82			
17	31	48	-4.17	.02	-4.15	1.18	5.19	17.14	38.10	17.98	-14.55	-12.17				4.30	3.84			
17	32	49	-.62	.90	.28	3.64	4.82	17.40	39.44	15.79	-18.42	-13.21				4.34	3.85			
17	33	50	5.89	1.62	7.51	.85	4.48	18.48	40.75	19.63	-16.21	-14.29				4.38	3.86			
17	34	51	10.11	2.05	12.16	3.42	4.27	18.85	42.13	17.35	-20.00	-15.40	.11			4.41	3.87			
17	35	52	17.21	2.21	19.42	.82	4.23	20.03	43.64	21.10	-17.89	-16.69	.14			4.45	3.89			
17	36	53	22.05	2.25	24.30	3.20	4.01	20.30	45.03	19.00	-21.65	-17.84	.16			4.48	3.90			
17	37	54	29.70	2.23	31.93	.43	3.64	21.31	46.31	22.73	-19.57	-18.97	.16			4.52	3.91			
17	38	55	35.09	2.19	37.28	2.72	3.16	21.51	47.44	20.66	-23.23	-19.89	.16			4.55	3.92			
17	40	57	49.14	2.05	51.19	2.26	2.23	22.57	49.43	22.22	-24.58	-21.38	.15			4.62	3.95			
17	42	59	64.11	1.70	65.81	1.93	1.52	23.41	51.01	23.55	-25.42	-22.66	.10			4.68	3.97			
17	44	61	79.93	.56	80.49	1.95	1.46	24.29	52.83	24.33	-26.46	-24.17				4.75	4.00			
17	46	63	96.52	-1.07	95.45	1.74	1.18	25.25	54.67	25.44	-27.55	-25.72				4.81	4.03			
17	48	65	113.84	-3.05	110.79	1.55	.81	26.14	56.41	26.54	-28.57	-27.18				4.87	4.05			
17	50	67	131.82	-5.37	126.45	1.37	.48	27.00	58.07	27.56	-32.24	-28.59				4.92	4.08			

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18	10	28	40.65	.42	41.07	25.12	47.02	-.46	-5.02	-30.13	18.63	-9.33				3.16	3.59			
18	11	29	29.52	.34	29.86	19.28	44.40	-.13	-2.78	-24.01	20.21	-8.99				3.24	3.61			
18	12	30	15.41	-.02	15.39	22.54	41.82	1.54	-.73	-25.53	14.36	-8.51				3.32	3.64			
18	13	31	7.05	-.63	6.42	17.05	39.59	1.90	1.43	-19.71	16.05	-8.51				3.40	3.65			
18	14	32	-4.36	-1.48	-5.84	20.33	37.38	3.49	3.41	-21.33	8.08	-8.35				3.47	3.67			
18	15	33	-10.36	-.17	-10.53	12.76	33.10	3.90	5.58	-13.42	9.90	-6.23				3.54	3.69	-9.40	.96	1.13
18	16	34	-19.45	.85	-18.60	16.14	28.91	5.46	7.55	-15.16	3.77	-4.01				3.60	3.70	-18.39	1.06	.21
18	17	35	-23.43	1.61	-21.82	11.29	27.44	6.74	11.43	-9.92	4.82	-4.71				3.66	3.72	-23.05	.38	-1.23
18	18	36	-30.52	2.11	-28.41	14.66	25.95	9.06	15.02	-11.73	-1.82	-5.21	.05			3.72	3.73	-30.23	.29	-1.82
18	19	37	-31.12	2.33	-28.79	8.45	23.11	9.49	17.01	-5.08	.15	-6.24	.10			3.77	3.75	-30.95	.17	-2.16
18	20	38	-34.93	2.37	-32.56	11.84	20.29	10.90	18.80	-6.12	-4.60	-7.02	.10			3.83	3.76	-34.71	.22	-2.15
18	21	39	-34.16	2.28	-31.88	7.40	19.23	11.21	20.57	-.52	-2.49	-7.95	.09			3.88	3.77	-33.24	.92	-1.36
18	22	40	-36.60	2.00	-34.60	10.79	18.19	12.50	22.20	-2.54	-7.01	-8.69				3.93	3.79	-35.04	1.56	-.44
18	23	41	-34.63	1.51	-33.12	6.60	17.38	12.82	23.91	1.92	-4.92	-9.66				3.98	3.80	-33.07	1.56	.05
18	24	42	-35.84	.85	-34.99	9.94	16.54	14.08	25.48	-.12	-9.31	-10.44				4.02	3.81	-34.42	1.42	.57
18	25	43	-32.81	.04	-32.77	5.85	15.79	14.38	27.09	4.27	-7.21	-11.40				4.07	3.82			
18	26	44	-32.93	-.91	-33.84	9.15	15.00	15.57	28.56	2.24	-11.44	-12.17				4.11	3.84			
18	27	45	-28.95	-2.00	-30.95	5.18	14.33	15.84	30.08	6.50	-9.32	-13.12				4.16	3.85			
18	28	46	-28.10	-3.21	-31.31	8.44	13.62	16.97	31.47	4.45	-16.21	-13.88				4.20	3.86			
18	29	47	-23.28	-1.80	-25.08	1.84	10.27	17.27	32.98	11.31	-14.04	-12.05				4.24	3.87			
18	30	48	-21.55	-.58	-22.13	5.13	6.96	18.38	34.37	9.21	-17.98	-10.13				4.28	3.88			
18	31	49	-15.97	.46	-15.51	1.46	6.57	18.65	35.79	13.17	-15.80	-11.26				4.32	3.90			
18	32	50	-13.44	1.32	-12.12	4.68	6.13	19.69	37.09	11.06	-19.63	-12.20				4.36	3.91			
18	33	51	-7.18	1.98	-5.20	1.15	5.83	19.99	38.48	14.85	-17.36	-13.33	.08			4.39	3.92			
18	34	52	-3.94	2.26	-1.68	4.55	5.70	21.13	39.98	12.58	-21.10	-14.50	.13			4.43	3.93			
18	35	53	2.94	2.35	5.29	1.10	5.66	21.42	41.45	16.32	-19.01	-15.84	.16			4.47	3.94			
18	36	54	6.83	2.36	9.19	4.18	5.28	22.39	42.70	14.27	-22.74	-16.96	.17			4.50	3.96			
18	37	55	14.28	2.34	16.62	.65	4.82	22.60	43.91	18.03	-20.66	-17.97	.17			4.54	3.97			
18	38	56	18.77	2.29	21.06	3.63	4.28	23.51	45.02	16.02	-24.31	-18.67	.17			4.57	3.98			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP NEU	RADIUS PRO	EXPERIMENTAL MASS	SHELL	DIFF
18	39	57	26.73	2.24	28.97	.17	3.79	23.69	46.12	19.69	-22.22	-19.41	.17				4.60	3.99			
18	40	58	31.76	2.17	33.93	3.11	3.28	24.55	47.12	17.66	-25.73	-19.99	.16				4.64	4.01			
18	42	60	45.73	1.90	47.63	2.70	2.45	25.46	48.87	19.13	-26.73	-21.26	.13				4.70	4.03			
18	44	62	60.59	.93	61.52	2.71	2.26	26.26	50.55	20.09	-27.60	-22.83					4.76	4.06			
18	46	64	76.27	-.69	75.58	2.50	2.08	27.17	52.41	21.23	-28.68	-24.34					4.82	4.08			
18	48	66	92.71	-2.67	90.04	2.28	1.68	28.03	54.18	22.37	-29.71	-25.79					4.88	4.11			
18	50	68	109.86	-4.97	104.89	2.07	1.30	28.85	55.85	23.46	-33.34	-27.17					4.94	4.13			

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19	13	32	15.76	-.27	15.49	18.71	41.57	-1.78	.12	-17.64	21.33	-9.38					3.41	3.71			
19	14	33	4.00	-1.11	2.89	20.67	39.39	-1.44	2.06	-19.29	13.42	-9.18					3.48	3.73			
19	15	34	-3.61	.17	-3.44	14.41	35.07	.20	4.10	-11.54	15.16	-6.89					3.55	3.75			
19	16	35	-13.06	1.16	-11.90	16.53	30.94	.58	6.05	-13.30	9.92	-4.69					3.62	3.76	-11.25	1.81	.65
19	17	36	-18.58	1.90	-16.68	12.86	29.38	2.15	8.89	-8.16	11.73	-5.19					3.68	3.78	-17.32	1.26	-.64
19	18	37	-26.02	2.32	-23.70	15.10	27.95	2.58	11.63	-10.03	5.09	-5.70	.10				3.73	3.79	-24.80	1.22	-1.10
19	19	38	-28.93	2.48	-26.45	10.81	25.91	4.95	14.43	-4.32	6.11	-6.50	.13				3.79	3.81	-28.79	.14	-2.34
19	20	39	-33.87	2.52	-31.35	12.98	23.79	6.09	16.99	-5.33	.54	-7.13	.13				3.84	3.82	-33.81	.06	-2.46
19	21	40	-34.51	2.44	-32.07	8.78	21.77	7.47	18.69	.94	2.53	-7.90	.12				3.90	3.83	-33.53	.98	-1.46
19	22	41	-37.27	2.23	-35.04	11.05	19.83	7.73	20.23	-.99	-1.92	-8.52	.08				3.95	3.84	-35.56	1.71	-.52
19	23	42	-36.64	1.77	-34.87	7.90	18.95	9.04	21.86	3.41	.12	-9.33					3.99	3.86	-35.02	1.62	-.15
19	24	43	-38.17	1.12	-37.05	10.25	18.15	9.35	23.43	1.35	-4.29	-10.09					4.04	3.87	-36.58	1.59	.47
19	25	44	-36.41	.32	-36.09	7.12	17.37	10.61	24.99	5.69	-2.25	-10.93					4.09	3.88	-35.81	.61	.28
19	26	45	-36.83	-.62	-37.45	9.44	16.55	10.90	26.46	3.67	-6.50	-11.67					4.13	3.89	-36.61	.22	.84
19	27	46	-34.06	-1.70	-35.76	6.38	15.82	12.10	27.94	7.88	-4.45	-12.51					4.17	3.91	-35.43	-1.37	.33
19	28	47	-33.49	-2.90	-36.39	8.70	15.09	12.37	29.34	5.84	-11.31	-13.25					4.22	3.92	-35.70	-2.21	.69
19	29	48	-29.82	-1.51	-31.33	3.01	11.71	13.54	30.81	12.63	-9.20	-11.36					4.26	3.93			
19	30	49	-28.36	-.31	-28.67	5.41	8.42	13.83	32.20	10.53	-13.16	-9.46					4.30	3.94			
19	31	50	-23.88	.71	-23.17	2.57	7.98	14.95	33.60	14.45	-11.05	-10.49					4.34	3.95			
19	32	51	-21.61	1.56	-20.05	4.95	7.52	15.22	34.92	12.35	-14.86	-11.43					4.37	3.97			
19	33	52	-16.40	2.15	-14.25	2.27	7.22	16.35	36.34	16.06	-12.57	-12.52	.10				4.41	3.98			
19	34	53	-13.40	2.37	-11.03	4.85	7.12	16.64	37.77	13.75	-16.33	-13.74	.14				4.45	3.99			
19	35	54	-7.52	2.44	-5.08	2.12	6.97	17.67	39.08	17.45	-14.28	-15.01	.16				4.48	4.00			
19	36	55	-3.85	2.44	-1.41	4.40	6.52	17.90	40.28	15.41	-18.03	-16.00	.17				4.52	4.01			
19	37	56	2.63	2.41	5.04	1.62	6.02	18.87	41.47	19.11	-16.02	-16.81	.17				4.55	4.03			
19	38	57	6.91	2.37	9.28	3.84	5.45	19.08	42.58	17.12	-19.69	-17.44	.18				4.59	4.04			
19	39	58	13.95	2.31	16.26	1.09	4.92	19.99	43.69	20.75	-17.67	-18.10	.17				4.62	4.05			
19	40	59	18.79	2.25	21.04	3.30	4.38	20.18	44.73	18.75	-21.22	-18.67	.17				4.65	4.06			
19	41	60	26.34	2.16	28.50	.61	3.91	21.05	45.74	22.28	-19.13	-19.30	.15				4.69	4.07			
19	42	61	31.69	2.02	33.71	2.87	3.48	21.22	46.67	20.23	-22.45	-19.90	.13				4.72	4.09			
19	43	62	39.70	1.73	41.43	.35	3.21	22.02	47.51	23.57	-20.08	-20.66	.09				4.75	4.10			
19	44	63	45.54	1.14	46.68	2.83	3.17	22.13	48.38	21.28	-23.33	-21.55					4.78	4.11			
19	45	64	53.97	.38	54.35	.39	3.23	22.94	49.35	24.49	-21.23	-22.44					4.81	4.12			
19	46	65	60.24	-.47	59.77	2.65	3.05	23.10	50.26	22.40	-24.48	-23.14					4.84	4.13			
19	47	66	69.08	-1.41	67.67	.17	2.83	23.87	51.17	25.63	-22.38	-23.88					4.87	4.15			
19	48	67	75.76	-2.43	73.33	2.41	2.59	24.00	52.03	23.55	-25.56	-24.55					4.90	4.16			
19	50	69	92.01	-4.71	87.30	2.20	2.17	24.88	53.73	24.63	-29.24	-25.91					4.96	4.18			

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20	10	30	61.81	.89	62.70	26.99	50.93	-1.54	-7.05	-32.82	21.78	-11.67		26.72	.68	1	3.19	3.71			
20	11	31	48.66	.80	49.46	21.30	48.30	-1.26	-5.02	-26.90	23.33	-11.08					3.28	3.73			
20	12	32	32.68	.45	33.13	24.40	45.71	.29	-3.16	-28.40	17.64	-10.36					3.36	3.75			
20	13	33	22.32	-.15	22.17	19.03	43.43	.60	-1.17	-22.75	19.28	-10.12					3.43	3.77			
20	14	34	9.07	-.97	8.10	22.15	41.18	2.08	.64	-24.32	11.54	-9.72					3.50	3.79			
20	15	35	1.12	.28	1.40	14.77	36.92	2.45	2.65	-16.64	13.30	-7.45					3.57	3.80			
20	16	36	-9.78	1.25	-8.53	18.00	32.77	3.92	4.51	-18.34	8.15	-5.12					3.63	3.82			
20	17	37	-15.64	1.97	-13.67	13.22	31.21	4.28	6.43	-13.21	10.04	-5.57	.04				3.69	3.83	-13.23	2.41	.44
20	18	38	-24.47	2.34	-22.13	16.53	29.75	5.71	8.29	-15.06	4.31	-5.95	.12				3.75	3.85	-22.02	2.45	.11
20	19	39	-28.51	2.50	-26.01	11.96	28.49	6.86	11.80	-10.17	5.35	-6.61	.13				3.81	3.86	-27.28	1.23	-1.27
20	20	40	-35.54	2.53	-33.01	15.07	27.02	8.94	15.03	-11.89	-.95	-7.02	.13				3.86	3.88	-34.85	.69	-1.84
20	21	41	-36.51	2.47	-34.04	9.10	24.17	9.27	16.73	-5.60	1.00	-7.68	.12				3.91	3.89	-35.14	1.37	-1.10
20	22	42	-40.55	2.27	-38.28	12.30	21.41	10.52	18.26	-6.71	-3.41	-8.15	.09				3.96	3.90	-38.54	2.01	-.26
20	23	43	-40.24	1.84	-38.40	8.19	20.50	10.82	19.86	-1.54	-1.36	-8.94					4.01	3.91	-38.40	1.84	0.
20	24	44	-42.98	1.20	-41.78	11.45	19.65	12.02	21.37	-3.50	-5.70	-9.61					4.06	3.93	-41.46	1.52	.32
20	25	45	-41.53	.41	-41.12	7.41	18.86	12.32	22.93	.85	-3.67	-10.42					4.10	3.94	-40.81	.72	.31
20	26	46	-43.12	-.52	-43.64	10.59	18.00	13.48	24.38	-1.12	-7.88	-11.08					4.15	3.95	-43.14	-.02	.50
20	27	47	-40.65	-1.58	-42.23	6.67	17.25	13.76	25.86	3.10	-5.84	-11.89					4.19	3.96	-42.34	-1.69	-.11
20	28	48	-41.19	-2.77	-43.96	9.80	16.47	14.86	27.23	1.12	-12.62	-12.55					4.23	3.97	-44.22	-3.03	-.26
20	29	49	-37.80	-1.40	-39.20	3.32	13.12	15.15	28.70	7.88	-10.52	-10.68					4.27	3.99	-41.29	-3.49	-2.09
20	30	50	-37.40	-.22	-37.62	6.49	9.81	16.23	30.07	5.85	-14.44	-8.73					4.31	4.00	-39.58	-2.18	-1.96
20	31	51	-33.18	.79	-32.39	2.85	9.33	16.51	31.46	9.79	-12.34	-9.74					4.35	4.01			
20	32	52	-31.93	1.63	-30.30	5.98	8.82	17.54	32.76	7.75	-16.04	-10.60					4.39	4.02			
20	33	53	-26.97	2.19	-24.78	2.54	8.52	17.81	34.16	11.44	-13.75	-11.70	.11				4.43	4.03			
20	34	54	-24.94	2.41	-22.53	5.83	8.37	18.79	35.43	9.16	-17.45	-12.83	.14				4.46	4.05			
20	35	55	-19.30	2.48	-16.82	2.36	8.19	19.03	36.70	12.83	-15.41	-14.05	.16				4.50	4.06			
20	36	56	-16.56	2.48	-14.08	5.33	7.69	19.95	37.86	10.83	-19.12	-14.83	.17				4.54	4.07			
20	37	57	-10.29	2.46	-7.83	1.83	7.16	20.16	39.03	14.55	-17.11	-15.55	.17				4.57	4.08			
20	38	58	-6.91	2.42	-4.49	4.73	6.56	21.06	40.13	12.60	-20.76	-16.11	.17				4.60	4.09			
20	39	59	-.08	2.37	2.29	1.29	6.02	21.26	41.26	16.24	-18.76	-16.75	.17				4.64	4.10			
20	40	60	3.91	2.31	6.22	4.15	5.44	22.12	42.29	14.30	-22.28	-17.27	.16				4.67	4.12			
20	41	61	11.26	2.22	13.48	.81	4.96	22.31	43.36	17.85	-20.23	-17.91	.15				4.70	4.13			
20	42	62	15.79	2.07	17.86	3.69	4.50	23.14	44.35	15.86	-23.57	-18.50	.13				4.73	4.14			
20	43	63	23.62	1.79	25.41	.52	4.21	23.32	45.33	19.25	-21.26	-19.28	.09				4.77	4.15			
20	44	64	28.65	1.20	29.85	3.62	4.15	24.11	46.24	17.03	-24.50	-20.21					4.80	4.16			
20	45	65	36.92	.45	37.37	.56	4.17	24.27	47.21	20.31	-22.40	-21.21					4.83	4.17			
20	46	66	42.43	-.39	42.04	3.40	3.96	25.03	48.12	18.27	-25.63	-21.90					4.86	4.19			
20	47	67	51.10	-1.32	49.78	.33	3.73	25.18	49.05	21.51	-23.55	-22.65					4.89	4.20			
20	48	68	57.05	-2.33	54.72	3.14	3.46	25.90	49.91	19.47	-26.71	-23.28					4.92	4.21			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
20	49	69	66.10	-3.42	62.68	.11	3.25	26.04	50.79	22.65	-24.62	-24.00					4.94	4.22			
20	50	70	72.45	-4.59	67.86	2.89	3.00	26.74	51.61	20.62	-30.34	-24.61					4.97	4.23			
20	52	72	88,57	-2.02	86.55	.12	-2.55	27.59	53.35	24.27	-31.28	-20.77					5.03	4.26			
20	56	76	122.81	1.48	124.29	.16	-2.68	29.16	56.64	25.92	-32.34	-24.02	.13				5.14	4.31			
20	58	78	140.84	1.48	142.32	.43	-1.88	29.84	58.09	26.30	-33.09	-26.45	.18				5.19	4.33			
20	60	80	159.42	1.21	160.63	.21	-2.17	30.52	59.48	27.22	-34.00	-27.63	.20				5.24	4.36			

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21	13	34	32.67	-.24	32.43	20.57	45.24	-2.96	-2.36	-20.63	24.33	-10.91					3.45	3.82			
21	14	35	19.10	-1.05	18.05	22.44	43.02	-2.66	-.58	-22.24	16.65	-10.51					3.52	3.84			
21	15	36	9.64	.18	9.82	16.30	38.75	-1.13	1.32	-14.71	18.34	-8.09					3.58	3.86			
21	16	37	-1.59	1.13	-.46	18.34	34.65	-.78	3.14	-16.42	13.21	-5.78					3.65	3.87			
21	17	38	-8.91	1.84	-7.07	14.68	33.03	.69	4.97	-11.39	15.06	-6.05					3.71	3.89			
21	18	39	-18.09	2.24	-15.85	16.85	31.53	1.01	6.72	-13.23	10.17	-6.38	.11				3.77	3.90			
21	19	40	-23.52	2.41	-21.11	13.34	30.19	2.39	9.25	-8.46	11.90	-6.86	.12				3.82	3.92	-20.52	3.00	.59
21	20	41	-30.89	2.45	-28.44	15.40	28.74	2.72	11.66	-10.23	5.61	-7.16	.13				3.88	3.93	-28.64	2.25	-.20
21	21	42	-33.95	2.38	-31.57	11.20	26.60	4.81	14.08	-4.78	6.71	-7.55	.11				3.93	3.94	-32.11	1.84	-.54
21	22	43	-39.03	2.18	-36.85	13.36	24.55	5.87	16.38	-5.87	1.55	-7.92	.08				3.98	3.96	-36.18	2.85	.67
21	23	44	-40.01	1.73	-38.28	9.50	22.85	7.17	17.99	-.05	3.50	-8.64					4.03	3.97	-37.81	2.20	.47
21	24	45	-43.07	1.10	-41.97	11.76	21.26	7.48	19.50	-1.98	-.85	-9.35					4.07	3.98	-41.06	2.01	.91
21	25	46	-42.85	.32	-42.53	8.63	20.39	8.69	21.02	2.31	1.11	-10.09					4.12	3.99	-41.76	1.09	.77
21	26	47	-44.73	-.59	-45.32	10.87	19.50	8.98	22.45	.36	-3.09	-10.70					4.16	4.01	-44.33	.40	.99
21	27	48	-43.44	-1.64	-45.08	7.83	18.70	10.14	23.90	4.52	-1.12	-11.42					4.21	4.02	-44.49	-1.05	.59
21	28	49	-44.27	-2.81	-47.08	10.07	17.90	10.41	25.27	2.55	-7.88	-12.06					4.25	4.03	-46.55	-2.28	.53
21	29	50	-42.01	-1.46	-43.47	4.47	14.54	11.56	26.71	9.22	-5.85	-10.14					4.29	4.04	-44.55	-2.54	-1.08
21	30	51	-41.88	-.30	-42.18	6.78	11.24	11.84	28.08	7.20	-9.78	-8.21					4.33	4.05	-43.23	-1.35	-1.05
21	31	52	-38.75	.70	-38.05	3.94	10.72	12.94	29.45	11.09	-7.74	-9.14					4.37	4.06			
21	32	53	-37.75	1.53	-36.22	6.24	10.19	13.20	30.74	9.07	-11.44	-9.97					4.41	4.08			
21	33	54	-33.82	2.14	-31.68	3.53	9.78	14.20	32.00	12.79	-9.15	-10.93	.09				4.44	4.09			
21	34	55	-32.04	2.39	-29.65	6.03	9.57	14.41	33.20	10.48	-12.83	-12.02	.13				4.48	4.10			
21	35	56	-27.39	2.48	-24.91	3.33	9.37	15.38	34.40	14.05	-10.84	-13.08	.15				4.52	4.11			
21	36	57	-24.88	2.50	-22.38	5.54	8.87	15.59	35.55	12.04	-14.54	-13.77	.16				4.55	4.12			
21	37	58	-19.57	2.49	-17.08	2.77	8.32	16.54	36.70	15.70	-12.59	-14.42	.17				4.59	4.13			
21	38	59	-16.40	2.45	-13.95	4.93	7.71	16.75	37.81	13.75	-16.24	-14.96	.17				4.62	4.14			
21	39	60	-10.49	2.40	-8.09	2.20	7.15	17.67	38.93	17.36	-14.31	-15.56	.16				4.65	4.16			
21	40	61	-6.71	2.34	-4.37	4.36	6.56	17.88	39.99	15.43	-17.85	-16.08	.16				4.69	4.17			
21	41	62	-.24	2.24	2.00	1.70	6.06	18.77	41.08	18.95	-15.86	-16.69	.14				4.72	4.18			
21	42	63	4.10	2.07	6.17	3.90	5.60	18.98	42.12	16.98	-19.23	-17.30	.12				4.75	4.19			
21	43	64	11.08	1.74	12.82	1.41	5.32	19.87	43.19	20.33	-17.04	-18.11	.07				4.78	4.20			
21	44	65	15.93	1.12	17.05	3.84	5.26	20.09	44.20	18.20	-20.32	-19.08					4.81	4.21			
21	45	66	23.39	.38	23.77	1.36	5.19	20.89	45.16	21.50	-18.27	-20.09					4.84	4.23			
21	46	67	28.72	-.45	28.27	3.57	4.93	21.06	46.08	19.46	-21.51	-20.83					4.87	4.24			
21	47	68	36.62	-1.37	35.25	1.09	4.66	21.82	47.00	22.69	-19.47	-21.53					4.90	4.25			
21	48	69	42.40	-2.37	40.03	3.29	4.39	21.98	47.88	20.66	-22.64	-22.17					4.93	4.26			
21	49	70	50.69	-3.45	47.24	.86	4.15	22.73	48.76	23.81	-20.61	-22.86					4.96	4.27			
21	50	71	56.89	-4.61	52.28	3.04	3.89	22.87	49.60	21.79	-26.32	-23.47					4.99	4.28			
21	52	73	72.15	-2.06	70.09	.27	-1.67	23.75	51.34	25.42	-27.30	-19.64					5.04	4.31			
21	54	75	88.11	.03	88.14	.14	-1.91	24.62	53.01	26.39	-28.24	-21.14					5.10	4.33			
21	56	77	104.74	1.50	106.24	.20	-1.96	25.34	54.50	27.14	-28.43	-22.76	.11				5.15	4.36			
21	58	79	122.00	1.58	123.58	.51	-1.19	26.02	55.87	27.37	-29.18	-25.00	.17				5.20	4.38			
21	60	81	139.83	1.35	141.18	.30	-1.46	26.74	57.26	28.23	-30.13	-26.12	.19				5.26	4.40			
21	62	83	158.22	1.10	159.32	.01	-2.00	27.42	58.61	29.20	-31.08	-26.96	.20				5.31	4.43			

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22	10	32	85.74	.42	86.16	28.70	54.47	-2.51	-8.89	-35.29	24.63	-13.76		24.18	.62	1	3.23	3.81			
22	11	33	70.74	.35	71.09	23.15	51.84	-2.27	-7.05	-29.54	26.17	-12.95		26.89	.66	1	3.31	3.83			
22	12	34	53.04	.02	53.06	26.10	49.25	-.85	-5.35	-31.02	20.64	-12.06		29.41	.66	1	3.39	3.86			
22	13	35	40.83	-.55	40.28	20.85	46.95	-.57	-3.52	-25.53	22.24	-11.61		31.72	.68	1	3.46	3.87			
22	14	36	25.86	-1.33	24.53	23.83	44.67	.81	-1.85	-27.07	14.72	-11.03					3.53	3.89			
22	15	37	16.09	-.12	15.97	16.63	40.46	1.13	.01	-19.61	16.43	-8.63					3.60	3.91			
22	16	38	3.49	.82	4.31	19.72	36.36	2.52	1.74	-21.27	11.38	-6.21					3.66	3.93			
22	17	39	-4.15	1.52	-2.63	15.01	34.74	2.85	3.54	-16.25	13.21	-6.45					3.72	3.94			
22	18	40	-14.64	1.99	-12.65	18.10	33.11	4.10	5.10	-17.95	8.47	-6.55	.06				3.78	3.96			
22	19	41	-20.41	2.20	-18.21	13.63	31.73	4.39	6.77	-13.17	10.23	-6.97	.10				3.84	3.97			
22	20	42	-29.04	2.25	-26.79	16.66	30.28	5.64	8.36	-14.92	4.78	-7.08	.10				3.89	3.98	-25.12	3.92	1.67
22	21	43	-33.15	2.17	-30.98	12.26	28.92	6.70	11.51	-10.22	5.88	-7.39	.09				3.94	4.00	-29.32	3.83	1.66
22	22	44	-40.13	1.90	-38.23	15.32	27.58	8.66	14.53	-11.97	.05	-7.64					3.99	4.01	-37.55	2.58	.68
22	23	45	-41.43	1.44	-39.99	9.83	25.15	9.00	16.17	-6.14	1.98	-8.37					4.04	4.02	-39.00	2.43	.99
22	24	46	-45.66	.83	-44.83	12.92	22.74	10.15	17.63	-7.32	-2.31	-8.98					4.09	4.04	-44.13	1.53	.70
22	25	47	-45.75	.07	-45.68	8.92	21.84	10.45	19.14	-2.37	-.35	-9.71					4.13	4.05	-44.93	.82	.75
22	26	48	-48.76	-.83	-49.59	11.98	20.90	11.56	20.53	-4.26	-4.51	-10.23					4.18	4.06	-48.49	.27	1.10
22	27	49	-47.77	-1.86	-49.63	8.11	20.09	11.84	21.98	-.11	-2.55	-10.93					4.22	4.07	-48.56	-.79	1.07
22	28	50	-49.68	-3.01	-52.69	11.14	19.24	12.90	23.31	-2.02	-9.22	-11.48					4.26	4.08	-51.43	-1.75	1.26
22	29	51	-47.70	-1.68	-49.38	4.76	15.89	13.20	24.76	4.63	-7.20	-9.58					4.31	4.09	-49.74	-2.04	-.36
22	30	52	-48.61	-.53	-49.14	7.83	12.59	14.25	26.10	2.67	-11.09	-7.61					4.35	4.11	-49.47	-.86	-.33
22	31	53	-45.75	.46	-45.29	4.22	12.05	14.54	27.47	6.57	-9.07	-8.51					4.38	4.12			
22	32	54	-45.75	1.28	-44.47	7.25	11.47	15.53	28.74	4.59	-12.78	-9.27					4.42	4.13			
22	33	55	-42.08	1.94	-40.14	3.74	10.99	15.74	29.94	8.38	-10.49	-10.17	.05				4.46	4.14			
22	34	56	-41.25	2.29	-38.96	6.90	10.63	16.60	31.01	6.23	-14.05	-11.08	.11				4.50	4.15			
22	35	57	-36.85	2.43	-34.42	3.53	10.43	16.80	32.18	9.71	-12.04	-12.07	.14				4.53	4.16			
22	36	58	-35.26	2.48	-32.78	6.44	9.96	17.69	33.29	7.68	-15.69	-12.68	.15				4.57	4.17			
22	37	59	-30.18	2.48	-27.70	2.99	9.43	17.91	34.44	11.32	-13.75	-13.31	.16				4.60	4.19			
22	38	60	-27.90	2.45	-25.45	5.82	8.81	18.79	35.54	9.40	-17.37	-13.80	.15				4.64	4.20			
22	39	61	-22.20	2.40	-19.80	2.43	8.24	19.01	36.67	13.02	-15.43	-14.39	.15				4.67	4.21			
22	40	62	-19.27	2.32	-16.95	5.22	7.65	19.86	37.74	11.13	-18.95	-14.89	.14				4.70	4.22			
22	41	63	-13.01	2.20	-10.81	1.93	7.15	20.10	38.86	14.66	-16.97	-15.53	.13				4.73	4.23			
22	42	64	-9.49	1.98	-7.51	4.77	6.70	20.97	39.95	12.74	-20.33	-16.15	.10				4.77	4.24			

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
22	43	65	-2.70	1.55	-1.15	1.71	6.48	21.26	41.13	16.11	-18.21	-17.05					4.80	4.25			
22	44	66	1.36	.91	2.27	4.65	6.36	22.08	42.16	14.10	-21.50	-18.01					4.83	4.26			
22	45	67	8.63	.18	8.81	1.54	6.18	22.25	43.14	17.40	-19.46	-19.02					4.86	4.28			
22	46	68	13.21	-.64	12.57	4.32	5.85	23.00	44.05	15.42	-22.68	-19.71					4.89	4.29			
22	47	69	20.92	-1.55	19.37	1.27	5.58	23.17	44.99	18.64	-20.66	-20.43					4.92	4.30			
22	48	70	25.97	-2.54	23.43	4.02	5.28	23.89	45.87	16.66	-23.81	-21.03					4.95	4.31			
22	49	71	34.10	-3.61	30.49	1.01	5.03	24.04	46.76	19.83	-21.79	-21.72					4.98	4.32			
22	50	72	39.59	-4.76	34.83	3.73	4.74	24.74	47.60	17.84	-27.45	-22.31					5.00	4.33			
22	52	74	54.01	-2.23	51.78	.97	-.80	25.59	49.35	21.50	-28.42	-18.50					5.06	4.36			
22	54	76	69.17	-.16	69.01	.81	-1.09	26.41	51.03	22.53	-29.36	-19.97					5.11	4.38			
22	56	78	85.03	1.43	86.46	.71	-1.30	27.07	52.41	23.47	-29.56	-21.43	.09				5.17	4.40			
22	58	80	101.53	1.67	103.20	1.08	-.60	27.67	53.70	23.63	-30.21	-23.52	.16				5.22	4.43			
22	60	82	118.65	1.49	120.14	.88	-.79	28.33	55.06	24.46	-31.12	-24.60	.19				5.27	4.45			
22	62	84	136.34	1.27	137.61	.58	-1.32	28.99	56.43	25.44	-32.06	-25.44	.19				5.32	4.47			
22	64	86	154.57	1.11	155.68	.27	-1.92	29.65	57.75	26.45	-32.99	-26.20	.20				5.37	4.50			

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23	15	38	26.19	-.61	25.58	18.06	42.17	-2.33	-1.19	-17.64	21.26	-9.27					3.61	3.96			
23	16	39	13.29	.33	13.62	20.03	38.10	-2.02	.50	-19.31	16.24	-6.85					3.68	3.98			
23	17	40	4.27	1.03	5.30	16.39	36.42	-.63	2.21	-14.38	17.95	-6.94					3.74	3.99			
23	18	41	-6.54	1.51	-5.03	18.40	34.79	-.33	3.77	-16.08	13.18	-7.00					3.80	4.01			
23	19	42	-13.64	1.77	-11.87	14.90	33.31	.95	5.33	-11.34	14.92	-7.23					3.85	4.02			
23	20	43	-22.60	1.84	-20.76	16.96	31.86	1.25	6.90	-13.09	10.22	-7.34					3.91	4.04			
23	21	44	-27.99	1.73	-26.26	13.58	30.53	2.57	9.27	-8.50	11.97	-7.57					3.96	4.05			
23	22	45	-35.29	1.44	-33.85	15.66	29.24	2.91	11.57	-10.29	6.14	-7.83					4.01	4.06	-31.90	3.39	1.95
23	23	46	-38.50	1.00	-37.50	11.73	27.39	4.81	13.80	-5.19	7.34	-8.35					4.06	4.07	-37.07	1.43	.43
23	24	47	-43.70	.40	-43.30	13.87	25.60	5.76	15.91	-6.38	2.38	-8.87					4.10	4.09	-42.00	1.70	1.30
23	25	48	-44.98	-.35	-45.33	10.10	23.97	6.93	17.39	-.88	4.27	-9.48					4.15	4.10	-44.47	.51	.86
23	26	49	-48.29	-1.23	-49.52	12.27	22.36	7.21	18.77	-2.76	.11	-9.98					4.19	4.11	-47.96	.33	1.56
23	27	50	-48.43	-2.24	-50.67	9.22	21.49	8.33	20.17	1.36	2.02	-10.57					4.24	4.12	-49.22	-.79	1.45
23	28	51	-50.64	-3.37	-54.01	11.41	20.63	8.61	21.51	-.55	-4.63	-11.11					4.28	4.13	-52.20	-1.56	1.81
23	29	52	-49.75	-2.05	-51.80	5.87	17.27	9.71	22.91	6.02	-2.66	-9.15					4.32	4.15	-51.44	-1.69	.36
23	30	53	-50.95	-.91	-51.86	8.12	13.99	10.01	24.26	4.05	-6.57	-7.21					4.36	4.16	-51.86	-.91	-0.
23	31	54	-49.13	.07	-49.06	5.28	13.40	11.06	25.59	7.92	-4.59	-8.02					4.40	4.17	-49.93	-.80	-.87
23	32	55	-49.40	.89	-48.51	7.52	12.80	11.33	26.86	5.96	-8.38	-8.76					4.44	4.18			
23	33	56	-46.74	1.55	-45.19	4.74	12.27	12.34	28.08	9.71	-6.23	-9.57					4.48	4.19			
23	34	57	-46.17	2.05	-44.12	7.01	11.75	12.45	29.05	7.71	-9.70	-10.32	.07				4.51	4.20			
23	35	58	-42.74	2.28	-40.46	4.41	11.41	13.34	30.13	11.22	-7.68	-11.20	.11				4.55	4.21			
23	36	59	-41.39	2.37	-39.02	6.63	11.04	13.52	31.22	9.10	-11.32	-11.79	.13				4.58	4.22			
23	37	60	-37.25	2.40	-34.85	3.90	10.54	14.44	32.34	12.63	-9.40	-12.37	.14				4.62	4.24			
23	38	61	-35.20	2.38	-32.82	6.04	9.94	14.66	33.45	10.69	-13.02	-12.86	.14				4.65	4.25			
23	39	62	-30.40	2.32	-28.08	3.33	9.37	15.57	34.57	14.25	-11.13	-13.42	.13				4.68	4.26			
23	40	63	-27.69	2.22	-25.47	5.46	8.80	15.80	35.67	12.37	-14.66	-13.94	.12				4.72	4.27			
23	41	64	-22.30	2.05	-20.25	2.85	8.32	16.73	36.83	15.87	-12.74	-14.59	.10				4.75	4.28			
23	42	65	-18.98	1.73	-17.25	5.07	7.92	17.03	37.99	13.97	-16.10	-15.30	.05				4.78	4.29			
23	43	66	-13.03	1.20	-11.83	2.65	7.72	17.97	39.23	17.32	-14.10	-16.25					4.81	4.30			
23	44	67	-9.16	.57	-8.59	4.83	7.48	18.15	40.23	15.34	-17.40	-17.18					4.84	4.31			
23	45	68	-2.70	-.15	-2.85	2.33	7.16	18.95	41.20	18.61	-15.41	-18.10					4.87	4.32			
23	46	69	1.69	-.96	.73	4.49	6.82	19.13	42.12	16.63	-18.64	-18.75					4.90	4.34			
23	47	70	8.63	-1.86	6.77	2.03	6.52	19.89	43.05	19.83	-16.66	-19.42					4.93	4.35			
23	48	71	13.50	-2.84	10.66	4.18	6.21	20.06	43.94	17.86	-19.83	-20.04					4.96	4.36			
23	49	72	20.88	-3.90	16.98	1.75	5.93	20.80	44.84	21.00	-17.85	-20.69					4.99	4.37			
23	50	73	26.20	-5.03	21.17	3.89	5.64	20.95	45.69	19.03	-23.50	-21.28					5.02	4.38			
23	52	75	39.74	-2.52	37.22	1.13	.10	21.85	47.44	22.65	-24.53	-17.48					5.07	4.40			
23	54	77	54.05	-.46	53.59	.96	-.23	22.71	49.13	23.68	-25.51	-18.92					5.13	4.43			
23	56	79	69.08	1.18	70.26	.81	-.53	23.48	50.56	24.65	-25.95	-20.30					5.18	4.45			
23	58	81	84.80	1.72	86.52	1.12	-.11	23.97	51.64	24.91	-26.43	-22.15	.15				5.23	4.47			
23	60	83	101.16	1.63	102.79	.97	-.12	24.64	52.97	25.56	-27.33	-23.21	.18				5.29	4.49			
23	62	85	118.11	1.45	119.56	.69	-.63	25.34	54.34	26.49	-28.31	-24.05	.19				5.34	4.52			
23	64	87	135.63	1.30	136.93	.38	-1.23	26.04	55.68	27.46	-29.28	-24.81	.19				5.38	4.54			
23	66	89	153.69	1.21	154.90	.07	-1.83	26.71	57.00	28.44	-30.22	-25.56	.19				5.43	4.56			

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24	12	36	76.17	-1.18	74.99	27.66	52.48	-1.88	-7.35	-33.43	23.39	-13.60		26.81	.62	1	3.42	3.96			
24	13	37	62.25	-1.71	60.54	22.52	50.18	-1.65	-5.67	-28.08	24.96	-12.98		29.31	.64	1	3.49	3.97			
24	14	38	45.67	-2.44	43.23	25.39	47.90	-.36	-4.12	-29.61	17.65	-12.26		31.63	.66	1	3.56	3.99			
24	15	39	34.19	-1.26	32.93	18.36	43.75	-.06	-2.39	-22.35	19.31	-9.78		33.78	.68	1	3.63	4.01			
24	16	40	20.00	-.33	19.67	21.33	39.70	1.23	-.77	-23.98	14.37	-7.28		35.78	.68	1	3.69	4.03			
24	17	41	10.68	.37	11.05	16.70	38.02	1.54	.91	-19.06	16.09	-7.34					3.75	4.04			
24	18	42	-1.38	.85	-.53	19.65	36.35	2.78	2.46	-20.71	11.34	-7.27					3.81	4.06			
24	19	43	-8.79	1.12	-7.67	15.21	34.87	3.09	4.04	-15.98	13.09	-7.47					3.87	4.07			
24	20	44	-18.96	1.20	-17.76	18.16	33.37	4.29	5.54	-17.67	8.50	-7.53					3.92	4.09			
24	21	45	-24.66	1.10	-23.56	13.88	32.04	4.59	7.16	-13.09	10.29	-7.78					3.97	4.10			
24	22	46	-33.14	.83	-32.31	16.82	30.70	5.75	8.66	-14.82	5.20	-7.94					4.02	4.11			
24	23	47	-37.31	.40	-36.91	12.68	29.49	6.70	11.50	-10.38	6.40	-8.35					4.07	4.12	-34.50	2.81	2.41
24	24	48	-44.27	-.19	-44.46	15.61	28.29	8.44	14.20	-12.16	.87	-8.66					4.12	4.14	-42.82	1.45	1.64
24	25	49	-45.85	-.91	-46.76	10.38	25.99	8.73	15.65	-6.63	2.76	-9.20					4.16	4.15	-45.39	.46	1.37
24	26	50	-50.25	-1.78	-52.03	13.34	23.72	9.79	17.01	-7.85	-1.36	-9.62					4.21	4.16	-50.26	-.01	1.77
24	27	51	-50.69	-2.77	-53.46	9.50	22.84	10.07	18.41	-3.13	.55	-10.20					4.25	4.17	-51.45	-.76	2.01
24	28	52	-53.94	-3.88	-57.82	12.43	21.93	11.10	19.71	-4.98	-6.01	-10.65					4.29	4.18	-55.41	-1.47	2.40
24	29	53	-53.35	-2.57	-55.92	6.17	18.61	11.40	21.12	1.55	-4.06	-8.72					4.34	4.20	-55.28	-1.93	.64
24	30	54	-55.55	-1.43	-56.98	9.14	15.30	12.42	22.42	-.35	-7.92	-6.71					4.38	4.21	-56.93	-1.38	.05
24	31	55	-54.01	-.46	-54.47	5.56	14.70	12.69	23.76	3.51	-5.95	-7.51					4.41	4.22	-55.12	-1.11	-.65
24	32	56	-55.25	.35	-54.90	8.50	14.06	13.67	25.01	1.60	-9.71	-8.18					4.45	4.23	-55.27	-.02	-.37
24	33	57	-52.86	1.02	-51.84	5.01	13.51	13.94	26.28	5.36	-7.71	-8.97					4.49	4.24			
24	34	58	-53.22	1.54	-51.68	7.91	12.93	14.84	27.30	3.45	-11.22	-9.63					4.53	4.25			
24	35	59	-50.04	1.92	-48.12	4.51	12.43	14.95	28.28	7.11	-9.10	-10.41	.05				4.56	4.26			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
24	36	60	-49.60	2.11	-47.49	7.44	11.96	15.76	29.29	5.12	-12.64	-10.95	.09				4.60	4.27			
24	37	61	-45.69	2.18	-43.51	4.09	11.54	15.95	30.39	8.65	-10.69	-11.52	.10				4.63	4.28			
24	38	62	-44.51	2.18	-42.33	6.89	10.99	16.81	31.46	6.70	-14.25	-11.97	.11				4.67	4.30			
24	39	63	-39.94	2.11	-37.83	3.57	10.46	17.05	32.61	10.24	-12.36	-12.55	.10				4.70	4.31			
24	40	64	-38.08	1.96	-36.12	6.36	9.93	17.94	33.75	8.37	-15.87	-13.10	.08				4.73	4.32			
24	41	65	-32.90	1.67	-31.23	3.18	9.54	18.27	34.99	11.83	-13.97	-13.85					4.76	4.33			
24	42	66	-30.40	1.25	-29.15	6.00	9.17	19.18	36.21	9.90	-17.32	-14.62					4.80	4.34			
24	43	67	-24.65	.72	-23.93	2.85	8.85	19.38	37.35	13.25	-15.34	-15.54					4.83	4.35			
24	44	68	-21.56	.11	-21.45	5.60	8.45	20.15	38.30	11.32	-18.60	-16.36					4.86	4.36			
24	45	69	-15.30	-.61	-15.91	2.52	8.13	20.34	39.30	14.59	-16.64	-17.18					4.89	4.37			
24	46	70	-11.66	-1.40	-13.06	5.23	7.75	21.08	40.20	12.67	-19.83	-17.76					4.92	4.38			
24	47	71	-4.91	-2.29	-7.20	2.20	7.44	21.26	41.15	15.87	-17.86	-18.43					4.95	4.39			
24	48	72	-.77	-3.25	-4.02	4.90	7.10	21.97	42.03	13.94	-21.01	-19.01					4.98	4.40			
24	49	73	6.44	-4.30	2.14	1.91	6.81	22.13	42.93	17.10	-19.03	-19.66					5.01	4.42			
24	50	74	11.06	-5.42	5.64	4.57	6.49	22.82	43.77	15.17	-24.64	-20.22					5.03	4.43			
24	52	76	23.74	-2.92	20.82	1.82	.96	23.69	45.54	18.82	-25.66	-16.44					5.09	4.45			
24	54	78	37.23	-.87	36.36	1.63	.60	24.52	47.23	19.89	-26.63	-17.84					5.14	4.47			
24	56	80	51.48	.76	52.24	1.44	.26	25.32	48.79	20.92	-27.33	-19.20					5.20	4.49			
24	58	82	66.43	1.68	68.11	1.57	.27	25.70	49.67	21.58	-27.57	-20.77	.12				5.25	4.52			
24	60	84	82.05	1.73	83.78	1.52	.48	26.30	50.94	21.97	-28.39	-21.85	.16				5.30	4.54			
24	62	86	98.30	1.60	99.90	1.24	.03	26.95	52.29	22.85	-29.33	-22.67	.18				5.35	4.56			
24	64	88	115.14	1.47	116.61	.93	-.56	27.60	53.64	23.84	-30.28	-23.43	.18				5.40	4.58			
24	66	90	132.53	1.39	133.92	.61	-1.17	28.26	54.97	24.84	-31.22	-24.18	.18				5.45	4.61			
24	68	92	150.44	1.35	151.79	.32	-1.73	28.92	56.31	25.82	-32.14	-24.95	.18				5.49	4.63			
24	70	94	168.86	1.33	170.19	.06	-2.25	29.58	57.62	26.79	-33.00	-25.75	.16				5.54	4.65			
24	74	98	207.06	.16	207.22	.21	-2.18	31.25	60.92	28.45	-34.38	-28.58					5.63	4.70			
24	76	100	226.81	-1.29	225.52	.11	-2.15	31.80	62.05	29.14	-34.99	-30.47					5.68	4.72			
24	78	102	246.96	-2.96	244.00	.01	-2.33	32.32	63.11	29.81	-35.58	-31.41					5.72	4.74			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
25	17	42	20.62	-.44	20.18	18.00	39.61	-1.84	-.30	-17.16	20.71	-7.82		36.61	.68	1	3.77	4.09			
25	18	43	8.26	.04	8.30	19.95	37.95	-1.54	1.24	-18.84	15.97	-7.74		38.40	.68	1	3.83	4.11			
25	19	44	-.41	.32	-.09	16.47	36.42	-.29	2.80	-14.17	17.67	-7.81					3.88	4.12			
25	20	45	-10.88	.41	-10.47	18.45	34.92		4.29	-15.88	13.09	-7.86					3.94	4.13			
25	21	46	-17.81	.32	-17.49	15.09	33.55	1.22	5.81	-11.37	14.82	-8.05					3.99	4.15			
25	22	47	-26.59	.07	-26.52	17.11	32.19	1.50	7.25	-13.10	10.40	-8.19					4.04	4.16			
25	23	48	-31.95	-.35	-32.30	13.85	30.96	2.67	9.37	-8.74	12.15	-8.47					4.09	4.17			
25	24	49	-39.21	-.91	-40.12	15.89	29.74	2.96	11.39	-10.50	6.64	-8.70					4.13	4.19	-37.72	1.49	2.40
25	25	50	-42.56	-1.62	-44.18	12.13	28.02	4.71	13.43	-5.67	7.85	-9.10					4.18	4.20	-42.62	-.06	1.56
25	26	51	-47.86	-2.46	-50.32	14.21	26.34	5.58	15.38	-6.87	3.14	-9.44					4.22	4.21	-48.24	-.38	2.08
25	27	52	-49.41	-3.43	-52.84	10.59	24.80	6.67	16.74	-1.64	4.98	-9.94					4.27	4.22	-50.70	-1.29	2.13
25	28	53	-52.95	-4.52	-57.47	12.71	23.29	6.94	18.04	-3.49	-1.56	-10.37					4.31	4.23	-54.69	-1.74	2.78
25	29	54	-53.41	-3.22	-56.63	7.23	19.94	8.00	19.40	2.98	.35	-8.38					4.35	4.24	-55.56	-2.15	1.07
25	30	55	-55.89	-2.09	-57.98	9.42	16.66	8.29	20.70	1.08	-3.51	-6.39					4.39	4.26	-57.71	-1.82	.27
25	31	56	-55.38	-1.12	-56.50	6.59	16.01	9.32	22.01	4.90	-1.60	-7.12					4.43	4.27	-56.91	-1.53	-.41
25	32	57	-56.89	-.31	-57.20	8.77	15.36	9.59	23.26	3.00	-5.37	-7.77					4.47	4.28	-57.62	-.73	-.42
25	33	58	-55.48	.36	-55.12	5.99	14.76	10.58	24.51	6.73	-3.44	-8.48					4.50	4.29	-56.06	-.58	-.94
25	34	59	-56.11	.88	-55.23	8.17	14.17	10.84	25.68	4.80	-7.11	-9.14					4.54	4.30			
25	35	60	-53.88	1.27	-52.61	5.45	13.63	11.78	26.73	8.44	-5.13	-9.85					4.58	4.31			
25	36	61	-53.69	1.53	-52.16	7.62	13.08	11.97	27.72	6.52	-8.65	-10.46					4.61	4.32			
25	37	62	-50.70	1.66	-49.04	4.95	12.58	12.82	28.77	10.07	-6.71	-11.01					4.65	4.33			
25	38	63	-49.75	1.68	-48.07	7.11	12.06	13.03	29.83	8.15	-10.23	-11.48					4.68	4.34			
25	39	64	-46.07	1.58	-44.49	4.49	11.60	13.94	30.99	11.62	-8.37	-12.07					4.71	4.35			
25	40	65	-44.43	1.37	-43.06	6.64	11.13	14.23	32.17	9.69	-11.84	-12.67					4.75	4.36			
25	41	66	-40.11	1.06	-39.05	4.06	10.70	15.12	33.38	13.09	-9.90	-13.40					4.78	4.38			
25	42	67	-37.82	.64	-37.18	6.20	10.27	15.32	34.50	11.16	-13.25	-14.13					4.81	4.39			
25	43	68	-32.91	.13	-32.78	3.67	9.88	16.14	35.52	14.48	-11.32	-14.96					4.84	4.40			
25	44	69	-30.02	-.48	-30.50	5.79	9.46	16.33	36.48	12.56	-14.60	-15.67					4.87	4.41			
25	45	70	-24.55	-1.17	-25.72	3.30	9.09	17.11	37.45	15.82	-12.66	-16.31					4.90	4.42			
25	46	71	-21.11	-1.96	-23.07	5.41	8.71	17.29	38.37	13.89	-15.87	-16.90					4.93	4.43			
25	47	72	-15.13	-2.83	-17.96	2.96	8.38	18.05	39.31	17.09	-13.94	-17.53					4.96	4.44			
25	48	73	-11.18	-3.78	-14.96	5.07	8.03	18.23	40.20	15.16	-17.10	-18.11					4.99	4.45			
25	49	74	-4.72	-4.81	-9.53	2.64	7.71	18.96	41.09	18.29	-15.17	-18.72					5.02	4.46			
25	50	75	-.28	-5.92	-6.20	4.74	7.38	19.13	41.95	16.37	-20.77	-19.29					5.05	4.47			
25	52	77	11.51	-3.44	8.07	2.00	1.87	20.03	43.73	19.97	-21.84	-15.53					5.10	4.49			
25	54	79	24.15	-1.40	22.75	1.79	1.47	20.89	45.42	21.04	-22.86	-16.89					5.16	4.52			
25	56	81	37.56	.23	37.79	1.60	1.10	21.74	47.05	22.06	-23.82	-18.22					5.21	4.54			
25	58	83	51.72	1.44	53.16	1.44	.78	22.25	47.94	23.01	-24.07	-19.53	.07				5.26	4.56			
25	60	85	66.57	1.75	68.32	1.56	.98	22.75	49.04	23.39	-24.75	-20.63	.14				5.31	4.58			
25	62	87	82.07	1.71	83.78	1.34	.68	23.41	50.36	24.05	-25.69	-21.43	.16				5.36	4.60			
25	64	89	98.18	1.62	99.80	1.04	.12	24.10	51.71	24.96	-26.66	-22.19	.17				5.41	4.63			
25	66	91	114.88	1.54	116.42	.73	-.48	24.79	53.05	25.93	-27.63	-22.93	.17				5.46	4.65			
25	68	93	132.12	1.48	133.60	.45	-1.04	25.49	54.41	26.91	-28.58	-23.72	.16				5.51	4.67			
25	70	95	149.88	1.37	151.25	.22	-1.51	26.22	55.81	27.87	-29.51	-24.60	.13				5.55	4.69			
25	72	97	168.13	.90	169.03	.23	-1.64	27.16	57.48	28.84	-30.34	-25.88	.01				5.60	4.71			
25	74	99	186.84	-.29	186.55	.29	-1.38	27.97	59.22	29.55	-31.01	-27.81					5.64	4.74			
25	76	101	206.00	-1.73	204.27	.18	-1.58	28.54	60.34	30.23	-31.67	-29.34					5.69	4.76			
25	78	103	225.57	-3.39	222.18	.08	-1.77	29.11	61.43	30.88	-32.30	-30.28					5.73	4.78			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
26	12	38	101.81	-3.05	98.76	29.10	55.45	-2.84	-9.19	-35.65	25.92	-14.99		23.79	.56	1	3.45	4.05			
26	13	39	86.29	-3.53	82.76	24.07	53.17	-2.64	-7.64	-30.45	27.48	-14.24		26.46	.60	1	3.53	4.07			
26	14	40	68.21	-4.21	64.00	26.83	50.90	-1.43	-6.20	-31.96	20.35	-13.41		28.96	.62	1	3.59	4.09			
26	15	41	55.13	-3.04	52.09	19.98	46.82	-1.16	-4.58	-24.90	21.98	-10.88		31.30	.62	1	3.66	4.11			
26	16	42	39.45	-2.10	37.35	22.82	42.79	.05	-3.10	-26.47	17.17	-8.30		33.47	.64	1	3.72	4.12			
26	17	43	28.54	-1.40	27.14	18.27	41.10	.33	-1.51	-21.67	18.83	-8.21		35.48	.66	1	3.78	4.14			
26	18	44	14.99	-.91	14.08	21.13	39.40	1.52	-.03	-23.30	14.17	-8.02		37.36	.66	1	3.84	4.15			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
26	19	45	6.03	-.62	5.41	16.75	37.87	1.79	1.50	-18.65	15.88	-8.07		39.09	.68	1	3.90	4.17			
26	20	46	-5.60	-.52	-6.12	19.60	36.35	2.94	2.94	-20.31	11.37	-8.01					3.95	4.18			
26	21	47	-12.83	-.59	-13.42	15.37	34.97	3.23	4.44	-15.81	13.11	-8.18					4.00	4.20			
26	22	48	-22.73	-.83	-23.56	18.22	33.58	4.33	5.83	-17.49	8.74	-8.23					4.05	4.21			
26	23	49	-28.39	-1.23	-29.62	14.13	32.34	4.61	7.28	-13.13	10.51	-8.48					4.10	4.22			
26	24	50	-36.74	-1.78	-38.52	16.97	31.10	5.68	8.64	-14.86	5.66	-8.64					4.15	4.23			
26	25	51	-40.98	-2.46	-43.44	13.00	29.96	6.55	11.26	-10.61	6.89	-8.95					4.19	4.25			
26	26	52	-47.92	-3.28	-51.20	15.83	28.83	8.17	13.75	-12.36	1.64	-9.17					4.24	4.26	-48.33	-.41	2.87
26	27	53	-49.75	-4.23	-53.98	10.85	26.68	8.43	15.10	-7.12	3.49	-9.64					4.28	4.27	-50.94	-1.19	3.04
26	28	54	-54.31	-5.29	-59.60	13.70	24.54	9.43	16.36	-8.34	-2.97	-10.00					4.32	4.28	-56.25	-1.94	3.35
26	29	55	-55.06	-4.00	-59.06	7.53	21.22	9.72	17.72	-1.36	-1.08	-8.03					4.36	4.29	-57.48	-2.42	1.58
26	30	56	-58.53	-2.88	-61.41	10.42	17.95	10.71	19.01	-3.22	-4.91	-6.01					4.40	4.30	-60.61	-2.08	.80
26	31	57	-58.29	-1.91	-60.20	6.87	17.28	10.99	20.31	.61	-3.00	-6.71					4.44	4.31	-60.18	-1.89	.02
26	32	58	-60.75	-1.10	-61.85	9.72	16.59	11.93	21.53	-1.24	-6.72	-7.29					4.48	4.32	-62.16	-1.41	-.31
26	33	59	-59.60	-.43	-60.03	6.26	15.98	12.19	22.77	2.49	-4.80	-7.99					4.52	4.34	-60.67	-1.07	-.64
26	34	60	-61.15	.10	-61.05	9.09	15.35	13.11	23.95	.62	-8.44	-8.58					4.56	4.35	-61.43	-.28	-.38
26	35	61	-59.17	.49	-58.68	5.70	14.79	13.36	25.14	4.26	-6.52	-9.27					4.59	4.36	-59.03	.14	-.35
26	36	62	-59.86	.76	-59.10	8.50	14.20	14.24	26.19	2.40	-10.07	-9.85					4.63	4.37			
26	37	63	-57.12	.90	-56.22	5.19	13.69	14.48	27.29	5.95	-8.15	-10.53					4.66	4.38			
26	38	64	-57.03	.92	-56.11	7.96	13.15	15.32	28.36	4.07	-11.62	-11.05					4.69	4.39			
26	39	65	-53.58	.83	-52.75	4.71	12.67	15.55	29.49	7.55	-9.69	-11.67					4.73	4.40			
26	40	66	-52.77	.63	-52.14	7.46	12.17	16.37	30.60	5.66	-13.09	-12.23					4.76	4.41			
26	41	67	-48.67	.33	-48.34	4.27	11.73	16.58	31.70	9.07	-11.16	-12.93					4.79	4.42			
26	42	68	-47.19	-.07	-47.26	6.99	11.27	17.37	32.69	7.18	-14.49	-13.57					4.82	4.43			
26	43	69	-42.48	-.58	-43.06	3.87	10.86	17.57	33.71	10.51	-12.56	-14.26					4.86	4.44			
26	44	70	-40.37	-1.17	-41.54	6.55	10.42	18.33	34.66	8.63	-15.81	-14.82					4.89	4.45			
26	45	71	-35.11	-1.85	-36.96	3.49	10.05	18.53	35.64	11.90	-13.89	-15.46					4.92	4.46			
26	46	72	-32.42	-2.63	-35.05	6.15	9.65	19.26	36.56	10.00	-17.09	-16.02					4.95	4.47			
26	47	73	-26.63	-3.48	-30.11	3.14	9.29	19.44	37.49	13.21	-15.15	-16.63					4.98	4.48			
26	48	74	-23.40	-4.42	-27.82	5.78	8.92	20.15	38.38	11.32	-18.29	-17.18					5.00	4.50			
26	49	75	-17.13	-5.44	-22.57	2.82	8.60	20.32	39.29	14.46	-16.37	-17.80					5.03	4.51			
26	50	76	-13.39	-6.53	-19.92	5.42	8.24	21.01	40.14	12.58	-21.92	-18.33					5.06	4.52			
26	51	77	-6.67	-5.24	-11.91	.06	5.49	21.20	41.06	18.11	-19.99	-16.48					5.09	4.53			
26	52	78	-2.45	-4.06	-6.51	2.68	2.73	21.87	41.91	16.21	-22.98	-14.57					5.12	4.54			
26	54	80	9.35	-2.02	7.33	2.45	2.30	22.71	43.61	17.32	-23.99	-15.91					5.17	4.56			
26	56	82	21.97	-.40	21.57	2.24	1.90	23.51	45.24	18.39	-24.96	-17.21					5.22	4.58			
26	58	84	35.35	.83	36.18	2.04	1.53	24.26	46.51	19.39	-25.63	-18.48					5.28	4.60			
26	60	86	49.45	1.58	51.03	1.97	1.30	24.57	47.33	20.25	-26.02	-19.51	.10				5.33	4.62			
26	62	88	64.23	1.71	65.94	1.86	1.24	25.12	48.54	20.79	-26.83	-20.27	.13				5.38	4.65			
26	64	90	79.65	1.68	81.33	1.58	.76	25.76	49.86	21.58	-27.75	-21.00	.15				5.43	4.67			
26	66	92	95.67	1.61	97.28	1.28	.19	26.43	51.22	22.55	-28.69	-21.76	.15				5.47	4.69			
26	68	94	112.25	1.49	113.74	1.02	-.32	27.14	52.64	23.55	-29.66	-22.60	.13				5.52	4.71			
26	70	96	129.38	1.21	130.59	.86	-.70	27.95	54.17	24.65	-30.60	-23.63	.08				5.57	4.73			
26	72	98	147.02	.34	147.36	.90	-.63	28.96	56.12	25.48	-31.41	-25.25					5.61	4.76			
26	74	100	165.14	-.84	164.30	.78	-.80	29.54	57.51	26.23	-32.08	-27.03					5.66	4.78			
26	76	102	183.71	-2.26	181.45	.66	-1.01	30.11	58.66	26.93	-32.74	-28.20					5.70	4.80			
26	78	104	202.73	-3.90	198.83	.54	-1.23	30.64	59.75	27.63	-33.36	-29.12					5.74	4.82			
26	80	106	222.16	-5.76	216.40	.43	-1.43	31.17	60.81	28.30	-33.97	-30.02					5.79	4.84			
26	82	108	241.99	-7.82	234.17	.32	-1.63	31.67	61.83	28.95	-36.89	-30.89					5.83	4.87			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
27	17	44	39.88	-2.50	37.38	19.50	42.59	-2.95	-2.62	-19.75	23.30	-8.69		34.24	.64	1	3.80	4.18			
27	18	45	26.05	-2.00	24.05	21.40	40.90	-2.68	-1.17	-21.40	18.64	-8.48		36.20	.66	1	3.86	4.20			
27	19	46	15.89	-1.70	14.19	17.93	39.34	-1.50	.30	-16.82	20.31	-8.42		38.02	.66	1	3.91	4.21			
27	20	47	3.97	-1.58	2.39	19.87	37.81	-1.22	1.72	-18.49	15.81	-8.34		39.73	.66	1	3.97	4.23			
27	21	48	-4.43	-1.64	-6.07	16.53	36.40	-.06	3.16	-14.06	17.49	-8.41		41.29	.68	1	4.02	4.24			
27	22	49	-14.62	-1.86	-16.48	18.49	35.01	.21	4.53	-15.75	13.14	-8.43		42.76	.68	1	4.07	4.25			
27	23	50	-21.42	-2.24	-23.66	15.25	33.74	1.33	5.94	-11.45	14.85	-8.60					4.12	4.27			
27	24	51	-30.06	-2.77	-32.83	17.24	32.49	1.60	7.28	-13.18	10.62	-8.73					4.16	4.28			
27	25	52	-35.41	-3.43	-38.84	14.09	31.32	2.68	9.24	-9.00	12.36	-8.96					4.21	4.29			
27	26	53	-42.63	-4.23	-46.86	16.09	30.18	2.95	11.11	-10.75	7.12	-9.16					4.25	4.30			
27	27	54	-46.11	-5.15	-51.26	12.47	28.57	4.57	13.00	-6.13	8.35	-9.50					4.30	4.32	-48.00	-1.89	3.26
27	28	55	-51.51	-6.19	-57.70	14.52	26.98	5.39	14.81	-7.36	1.36	-9.80					4.34	4.33	-54.01	-2.50	3.69
27	29	56	-53.29	-4.91	-58.20	8.57	23.08	6.42	16.15	.08	3.20	-7.79					4.38	4.34	-56.04	-2.75	2.16
27	30	57	-57.03	-3.78	-60.81	10.69	19.25	6.70	17.40	-1.75	-.61	-5.77					4.42	4.35	-59.35	-2.32	1.46
27	31	58	-57.79	-2.82	-60.61	7.87	18.56	7.70	18.69	2.03	1.24	-6.40					4.46	4.36	-59.85	-2.06	.76
27	32	59	-60.52	-2.00	-62.52	9.99	17.85	7.97	19.90	.18	-2.49	-6.96					4.50	4.37	-62.24	-1.72	.28
27	33	60	-60.34	-1.33	-61.67	7.22	17.21	8.93	21.12	3.87	-.62	-7.59					4.53	4.38	-61.66	-1.32	.01
27	34	61	-62.14	-.80	-62.94	9.34	16.56	9.18	22.29	2.01	-4.26	-8.16					4.57	4.39	-62.92	-.78	.02
27	35	62	-61.09	-.40	-61.49	6.62	15.96	10.11	23.46	5.62	-2.38	-8.79					4.61	4.40	-61.53	-.44	-.04
27	36	63	-62.04	-.13	-62.17	8.75	15.37	10.36	24.59	3.75	-5.95	-9.37					4.64	4.41	-61.86	.18	.31
27	37	64	-60.20	.02	-60.18	6.08	14.82	11.25	25.72	7.27	-4.07	-10.00					4.67	4.42	-60.11	.09	.07
27	38	65	-60.35	.05	-60.30	8.19	14.27	11.48	26.80	5.40	-7.55	-10.57					4.71	4.43			
27	39	66	-57.77	-.03	-57.80	5.57	13.76	12.34	27.89	8.84	-5.66	-11.19					4.74	4.45			
27	40	67	-57.19	-.22	-57.41	7.68	13.25	12.56	28.93	6.96	-9.07	-11.76					4.77	4.46			
27	41	68	-53.93	-.51	-54.44	5.10	12.78	13.39	29.97	10.34	-7.18	-12.37					4.81	4.47			
27	42	69	-52.67	-.90	-53.57	7.20	12.31	13.60	30.97	8.46	-10.51	-12.94					4.84	4.48			
27	43	70	-48.78	-1.39	-50.17	4.67	11.87	14.40	31.97	11.77	-8.63	-13.55					4.87	4.49			
27	44	71	-46.89	-1.97	-48.86	6.76	11.43	14.61	32.94	9.88	-11.90	-14.11					4.90	4.50			
27	45	72	-42.41	-2.64	-45.05	4.27	11.02	15.38	33.90	13.13	-10.00	-14.70					4.93	4.51			
27	46	73	-39.92	-3.40	-43.32	6.34	10.61	15.56	34.82	11.25	-13.20	-15.25					4.96	4.52			
27	47	74	-34.90	-4.24	-39.14	3.89	10.23	16.31	35.75	14.43	-11.32	-15.84					4.99	4.53			
27	48	75	-31.86	-5.16	-37.02	5.95	9.84	16.49	36.64	12.55	-14.45	-16.37					5.02	4.54			
27	49	76	-26.33	-6.16	-32.49	3.54	9.49	17.22	37.54	15.67	-12.57	-16.95					5.05	4.55			
27	50	77	-22.78	-7.24	-30.02	5.60	9.14	17.39	38.40	13.79	-18.12	-17.49					5.08	4.56			
27	51	78	-16.77	-5.95	-22.72	.78	6.37	18.11	39.30	19.29	-16.21	-15.61					5.10	4.57			
27	52	79	-12.74	-4.78	-17.52	2.87	3.64	18.30	40.18	17.39	-19.23	-13.75					5.13	4.58			

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
27	53	80	-6.28	-3.71	-9.99	.55	3.41	18.99	41.04	20.38	-17.32	-14.42					5.16	4.59			
27	54	81	-1.79	-2.75	-4.54	2.62	3.17	19.16	41.87	18.49	-20.27	-15.04					5.18	4.60			
27	55	82	5.08	-1.89	3.19	.34	2.96	19.83	42.71	21.43	-18.38	-15.70					5.21	4.61			
27	56	83	9.99	-1.13	8.86	2.40	2.74	20.00	43.51	19.54	-21.29	-16.32					5.24	4.62			
27	57	84	17.25	-.47	16.78	.15	2.55	20.65	44.33	22.42	-19.41	-16.96					5.26	4.63			
27	58	85	22.56	.11	22.67	2.19	2.33	20.81	45.07	20.54	-22.26	-17.55					5.29	4.64			
27	60	87	35.88	.98	36.86	1.99	1.95	21.46	46.03	21.51	-22.87	-18.72					5.34	4.67			
27	62	89	49.91	1.47	51.38	1.85	1.63	21.86	46.98	22.40	-23.46	-19.36	.08				5.39	4.69			
27	64	91	64.59	1.55	66.14	1.68	1.37	22.48	48.24	23.15	-24.35	-20.06	.11				5.44	4.71			
27	66	93	79.90	1.48	81.38	1.43	.91	23.18	49.61	24.03	-25.31	-20.85	.10				5.49	4.73			
27	68	95	95.80	1.23	97.03	1.23	.49	24.00	51.14	24.99	-26.35	-21.81	.07				5.53	4.75			
27	70	97	112.26	.60	112.86	1.15	.32	25.02	52.97	25.81	-27.33	-23.16					5.58	4.77			
27	72	99	129.25	-.31	128.94	1.01	.07	25.71	54.67	26.58	-28.06	-24.73					5.62	4.79			
27	74	101	146.75	-1.48	145.27	.87	-.19	26.31	55.86	27.31	-28.77	-26.18					5.67	4.82			
27	76	103	164.72	-2.88	161.84	.75	-.43	26.90	57.01	28.02	-29.46	-27.13					5.71	4.84			
27	78	105	183.15	-4.50	178.65	.62	-.67	27.47	58.11	28.71	-30.11	-28.04					5.76	4.86			
27	80	107	202.01	-6.34	195.67	.51	-.88	28.02	59.19	29.38	-30.75	-28.94					5.80	4.88			
27	82	109	221.28	-8.39	212.89	.40	-1.08	28.56	60.23	30.01	-33.70	-29.81					5.84	4.90			

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28	14	42	93.25	-6.55	86.70	28.17	53.67	-2.42	-8.12	-37.09	22.88	-14.48		25.89	.56	1	3.63	4.18			
28	15	43	78.67	-5.38	73.29	21.47	49.65	-2.18	-6.62	-30.17	24.48	-11.90		28.38	.58	1	3.69	4.20			
28	16	44	61.57	-4.44	57.13	24.23	45.71	-1.03	-5.21	-31.70	19.75	-9.29		30.71	.60	1	3.75	4.21			
28	17	45	49.17	-3.72	45.45	19.76	43.98	-.77	-3.73	-26.94	21.39	-9.07		32.89	.62	1	3.81	4.23			
28	18	46	34.22	-3.21	31.01	22.52	42.27	.34	-2.35	-28.50	16.82	-8.76		34.93	.64	1	3.87	4.24			
28	19	47	23.78	-2.90	20.88	18.20	40.71	.60	-.89	-23.90	18.49	-8.68		36.84	.64	1	3.93	4.26			
28	20	48	10.76	-2.77	7.99	20.96	39.16	1.69	.47	-25.49	14.06	-8.52		38.62	.66	1	3.98	4.27			
28	21	49	2.08	-2.81	-.73	16.79	37.75	1.95	1.89	-21.03	15.76	-8.56		40.27	.66	1	4.03	4.29			
28	22	50	-9.19	-3.01	-12.20	19.55	36.33	3.01	3.21	-22.64	11.46	-8.51		41.82	.66	1	4.08	4.30			
28	23	51	-16.27	-3.37	-19.64	15.51	35.05	3.27	4.60	-18.31	13.19	-8.65		43.24	.68	1	4.13	4.31			
28	24	52	-25.96	-3.88	-29.84	18.26	33.78	4.30	5.90	-19.97	9.00	-8.70		44.57	.68	1	4.18	4.33			
28	25	53	-31.59	-4.52	-36.11	14.34	32.61	4.56	7.24	-15.76	10.75	-8.91					4.22	4.34			
28	26	54	-39.83	-5.29	-45.12	17.08	31.43	5.55	8.50	-17.43	6.14	-9.03					4.27	4.35			
28	27	55	-44.15	-6.19	-50.34	13.29	30.37	6.37	10.94	-13.34	7.36	-9.32					4.31	4.36			
28	28	56	-51.07	-7.21	-58.28	16.01	29.29	7.87	13.25	-15.03	-.09	-9.50					4.35	4.37	-53.91	-2.84	4.37
28	29	57	-53.13	-5.93	-59.06	8.84	24.86	8.15	14.58	-7.59	1.75	-7.51					4.39	4.38	-56.10	-2.97	2.96
28	30	58	-57.83	-4.81	-62.64	11.65	20.50	9.11	15.82	-8.83	-2.03	-5.46					4.43	4.39	-60.23	-2.40	2.41
28	31	59	-58.86	-3.84	-62.70	8.14	19.78	9.38	17.08	-4.50	-.18	-6.06					4.47	4.40	-61.16	-2.30	1.54
28	32	60	-62.52	-3.02	-65.54	10.92	19.05	10.31	18.27	-6.28	-3.87	-6.56					4.51	4.42	-64.48	-1.96	1.06
28	33	61	-62.60	-2.35	-64.95	7.48	18.39	10.57	19.50	-2.56	-2.01	-7.18					4.55	4.43	-64.23	-1.63	.72
28	34	62	-65.30	-1.81	-67.11	10.24	17.71	11.46	20.64	-4.35	-5.61	-7.69					4.58	4.44	-66.75	-1.45	.36
28	35	63	-64.51	-1.41	-65.92	6.88	17.11	11.71	21.82	-.73	-3.75	-8.31					4.62	4.45	-65.52	-1.01	.40
28	36	64	-66.32	-1.13	-67.45	9.61	16.48	12.57	22.92	-2.52	-7.27	-8.83					4.65	4.46	-67.11	-.79	.34
28	37	65	-64.72	-.97	-65.69	6.31	15.92	12.80	24.05	1.03	-5.39	-9.44					4.69	4.47	-65.13	-.41	.56
28	38	66	-65.72	-.93	-66.65	9.03	15.35	13.64	25.12	-.79	-8.85	-9.97					4.72	4.48	-66.06	-.34	.59
28	39	67	-63.38	-1.00	-64.38	5.81	14.83	13.86	26.21	2.69	-6.97	-10.58					4.76	4.49	-63.20	.18	1.18
28	40	68	-63.61	-1.17	-64.78	8.48	14.28	14.67	27.22	.88	-10.34	-11.10					4.79	4.50			
28	41	69	-60.58	-1.45	-62.03	5.32	13.80	14.88	28.27	4.28	-8.46	-11.70					4.82	4.51			
28	42	70	-60.10	-1.83	-61.93	7.97	13.29	15.65	29.25	2.47	-11.76	-12.22					4.85	4.52			
28	43	71	-56.44	-2.31	-58.75	4.88	12.86	15.87	30.27	5.79	-9.89	-12.83					4.88	4.53			
28	44	72	-55.30	-2.88	-58.18	7.50	12.39	16.61	31.22	3.97	-13.13	-13.35					4.91	4.54			
28	45	73	-51.04	-3.53	-54.57	4.47	11.97	16.81	32.18	7.24	-11.25	-13.94					4.94	4.55			
28	46	74	-49.29	-4.28	-53.57	7.07	11.53	17.53	33.10	5.41	-14.43	-14.45					4.97	4.56			
28	47	75	-44.47	-5.10	-49.57	4.08	11.14	17.72	34.03	8.62	-12.54	-15.03					5.00	4.57			
28	48	76	-42.15	-6.01	-48.16	6.66	10.74	18.42	34.92	6.79	-15.66	-15.54					5.03	4.58			
28	49	77	-36.81	-6.99	-43.80	3.72	10.37	18.60	35.81	9.94	-13.78	-16.11					5.06	4.59			
28	50	78	-33.96	-8.05	-42.01	6.28	9.99	19.28	36.67	8.11	-19.29	-16.61					5.09	4.60			
28	51	79	-28.13	-6.77	-34.90	.96	7.24	19.47	37.58	13.61	-17.39	-14.76					5.12	4.61			
28	52	80	-24.77	-5.60	-30.37	3.54	4.50	20.14	38.44	11.77	-20.38	-12.88					5.14	4.62			
28	53	81	-18.50	-4.54	-23.04	.73	4.28	20.33	39.33	14.77	-18.49	-13.56					5.17	4.63			
28	54	82	-14.66	-3.58	-18.24	3.27	4.01	20.98	40.15	12.94	-21.42	-14.15					5.20	4.64			
28	55	83	-7.96	-2.72	-10.68	.51	3.79	21.15	40.99	15.90	-19.54	-14.81					5.22	4.65			
28	56	84	-3.69	-1.95	-5.64	3.04	3.54	21.79	41.79	14.06	-22.43	-15.39					5.25	4.67			
28	57	85	3.41	-1.29	2.12	.31	3.34	21.95	42.61	16.96	-20.55	-16.04					5.28	4.68			
28	58	86	8.11	-.71	7.40	2.80	3.10	22.56	43.37	15.14	-23.38	-16.59					5.30	4.69			
28	59	87	15.58	-.23	15.35	.12	2.92	22.72	44.16	17.99	-21.52	-17.22					5.33	4.70			
28	60	88	20.67	.17	20.84	2.59	2.70	23.32	44.77	16.17	-24.31	-17.77					5.35	4.71			
28	62	90	33.96	.71	34.67	2.38	2.31	23.99	45.86	17.16	-25.08	-18.79					5.40	4.73			
28	64	92	47.94	.93	48.87	2.19	1.95	24.56	47.04	18.23	-25.86	-19.50					5.45	4.75			
28	66	94	62.56	.85	63.41	2.01	1.61	25.25	48.44	19.21	-26.78	-20.34					5.50	4.77			
28	68	96	77.80	.49	78.29	1.83	1.27	26.04	50.04	20.01	-27.65	-21.41					5.55	4.79			
28	70	98	93.62	-.15	93.47	1.66	.96	26.69	51.70	20.78	-28.41	-22.70					5.59	4.81			
28	72	100	109.98	-1.05	108.93	1.51	.67	27.30	53.00	21.60	-29.14	-24.08					5.64	4.83			
28	74	102	126.87	-2.20	124.67	1.36	.40	27.89	54.20	22.39	-29.85	-25.11					5.68	4.85			
28	76	104	144.25	-3.58	140.67	1.22	.14	28.46	55.36	23.16	-30.53	-26.05					5.73	4.88			
28	78	106	162.11	-5.19	156.92	1.09	-.11	29.01	56.49	23.89	-31.18	-26.96					5.77	4.90			
28	80	108	180.41	-7.01	173.40	.96	-.34	29.55	57.58	24.60	-31.82	-27.85					5.81	4.92			
28	82	110	199.14	-9.03	190.11	.84	-.56	30.07	58.63	25.30	-34.75	-28.71					5.85	4.94			

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29	23	52	-7.81	-2.05	-9.86	16.61	36.45	-2.50	.78	-16.57	19.98	-6.22		42.27	.66	1	4.14	4.36			
29	24	53	-17.78	-2.57	-20.35	18.55	35.17	-2.20	2.10	-18.24	15.76	-6.29		43.67	.66	1	4.19	4.37			
29	25	54	-24.47	-3.22	-27.69	15.41	33.96	-1.14	3.43	-14.08	17.44	-6.45		44.97	.68	1	4.24	4.38			
29	26	55	-33.00	-4.00	-37.00	17.38	32.79	-.84	4.72	-15.77	13.34	-6.60		46.18	.68	1	4.28	4.39			
29	27	56	-38.34	-4.91	-43.25	14.32	31.70	.19	6.57	-11.73	15.03	-6.84					4.32	4.40			
29	28	57	-45.54	-5.93	-51.47	16.29	30.62	.47	8.35	-13.42	7.59	-7.03					4.37	4.42			
29	29	58	-49.14	-4.67	-53.81	10.42	26.71	2.04	10.19	-6.59	8.83	-4.98					4.41	4.43	-51.67	-2.53	2.14

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
29	30	59	-54.62	-3.58	-58.20	12.46	22.88	2.85	11.96	-7.82	4.50	-2.92					4.45	4.44	-56.36	-1.74	1.84
29	31	60	-56.62	-2.64	-59.26	9.13	21.60	3.85	13.23	-3.03	6.28	-3.49					4.48	4.45	-58.35	-1.73	.91
29	32	61	-60.55	-1.84	-62.39	11.21	20.33	4.14	14.44	-4.82	2.56	-4.00					4.52	4.46	-61.98	-1.43	.41
29	33	62	-61.57	-1.19	-62.76	8.44	19.64	5.10	15.67	-1.14	4.35	-4.58					4.56	4.47	-62.81	-1.24	-.05
29	34	63	-64.52	-.67	-65.19	10.51	18.94	5.37	16.83	-2.92	.73	-5.09					4.60	4.48	-65.59	-1.07	-.40
29	35	64	-64.64	-.28	-64.92	7.80	18.31	6.30	18.00	.68	2.53	-5.67					4.63	4.49	-65.43	-.79	-.51
29	36	65	-66.71	-.02	-66.73	9.87	17.68	6.57	19.14	-1.13	-1.03	-6.21					4.67	4.50	-67.26	-.55	-.53
29	37	66	-65.99	.13	-65.86	7.21	17.08	7.46	20.26	2.40	.78	-6.79					4.70	4.51	-66.26	-.27	-.40
29	38	67	-67.23	.16	-67.07	9.28	16.49	7.72	21.35	.59	-2.70	-7.32					4.74	4.52	-67.30	-.07	-.23
29	39	68	-65.74	.08	-65.66	6.66	15.94	8.58	22.44	4.03	-.88	-7.90					4.77	4.53	-65.42	.32	.24
29	40	69	-66.21	-.11	-66.32	8.73	15.40	8.82	23.49	2.21	-4.29	-8.45					4.80	4.54	-65.94	.27	.38
29	41	70	-64.01	-.39	-64.40	6.16	14.88	9.66	24.54	5.59	-2.46	-9.02					4.83	4.55			
29	42	71	-63.76	-.78	-64.54	8.21	14.37	9.89	25.55	3.77	-5.80	-9.56					4.87	4.56			
29	43	72	-60.89	-1.26	-62.15	5.69	13.89	10.69	26.56	7.08	-3.97	-10.13					4.90	4.57			
29	44	73	-59.97	-1.83	-61.80	7.72	13.41	10.91	27.52	5.27	-7.23	-10.65					4.93	4.58			
29	45	74	-56.49	-2.49	-58.98	5.25	12.97	11.70	28.51	8.50	-5.41	-11.23					4.96	4.59			
29	46	75	-54.95	-3.24	-58.19	7.28	12.53	11.91	29.45	6.69	-8.62	-11.76					4.99	4.60			
29	47	76	-50.88	-4.07	-54.95	4.83	12.11	12.66	30.39	9.87	-6.79	-12.32					5.02	4.61			
29	48	77	-48.76	-4.98	-53.74	6.86	11.70	12.86	31.29	8.05	-9.93	-12.84					5.05	4.62			
29	49	78	-44.16	-5.96	-50.12	4.45	11.31	13.60	32.20	11.16	-8.11	-13.40					5.07	4.63			
29	50	79	-41.49	-7.02	-48.51	6.46	10.91	13.79	33.07	9.35	-13.60	-13.91					5.10	4.64			
29	51	80	-36.38	-5.76	-42.14	1.70	8.17	14.52	33.99	14.80	-11.77	-12.07					5.13	4.65			
29	52	81	-33.21	-4.60	-37.81	3.75	5.44	14.73	34.87	12.97	-14.78	-10.22					5.16	4.67			
29	53	82	-27.62	-3.56	-31.18	1.44	5.18	15.43	35.76	15.96	-12.94	-10.88					5.18	4.68			
29	54	83	-23.96	-2.61	-26.57	3.47	4.90	15.62	36.60	14.13	-15.89	-11.48					5.21	4.69			
29	55	84	-17.93	-1.77	-19.70	1.19	4.67	16.31	37.46	17.07	-14.06	-12.13					5.24	4.70			
29	56	85	-13.82	-1.02	-14.84	3.21	4.41	16.49	38.28	15.24	-16.97	-12.72					5.26	4.71			
29	57	86	-7.37	-.37	-7.74	.96	4.18	17.15	39.10	18.13	-15.13	-13.35					5.29	4.72			
29	58	87	-2.84	.20	-2.64	2.97	3.94	17.33	39.89	16.31	-17.99	-13.92					5.32	4.73			
29	59	88	4.00	.67	4.67	.76	3.73	17.97	40.69	19.15	-16.17	-14.54					5.34	4.74			
29	60	89	8.94	1.06	10.00	2.75	3.50	18.13	41.45	17.33	-18.98	-15.10					5.37	4.75			
29	61	90	16.15	1.36	17.51	.55	3.31	18.76	42.22	20.24	-17.17	-15.70	.03				5.39	4.76			
29	62	91	21.46	1.53	22.99	2.59	3.15	18.97	42.96	18.55	-20.00	-16.30	.08				5.42	4.77			
29	63	92	29.03	1.61	30.64	.43	3.02	19.64	43.69	21.43	-18.23	-16.94	.09				5.44	4.78			
29	64	93	34.70	1.63	36.33	2.38	2.81	19.84	44.39	19.70	-21.02	-17.47	.10				5.46	4.79			
29	65	94	42.60	1.61	44.21	.19	2.57	20.43	45.10	22.50	-19.21	-17.96	.10				5.49	4.80			
29	66	95	48.61	1.55	50.16	2.11	2.31	20.54	45.80	20.72	-21.88	-18.41	.10				5.51	4.81			
29	68	97	63.15	1.30	64.45	1.89	1.85	21.12	47.16	21.57	-22.60	-19.35	.06				5.56	4.83			
29	70	99	78.29	.68	78.97	1.79	1.62	21.78	48.47	22.11	-23.39	-20.49					5.60	4.85			
29	72	101	94.00	-.23	93.77	1.63	1.34	22.44	49.75	22.70	-24.19	-21.52					5.65	4.87			
29	74	103	110.25	-1.38	108.87	1.48	1.04	23.08	50.98	23.49	-24.95	-22.49					5.69	4.89			
29	76	105	127.02	-2.76	124.26	1.33	.76	23.70	52.16	24.25	-25.68	-23.43					5.74	4.91			
29	78	107	144.27	-4.37	139.90	1.19	.50	24.31	53.32	24.98	-26.39	-24.37					5.78	4.93			
29	80	109	161.99	-6.19	155.80	1.06	.25	24.89	54.44	25.68	-27.08	-25.27					5.82	4.96			
29	82	111	180.16	-8.21	171.95	.93	.00	25.45	55.52	26.37	-30.04	-26.14					5.87	4.98			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
30	20	50	29.88	-.22	29.66	22.33	41.97	-2.07	-7.09	-27.74	19.22	-3.77		36.09	.62	1	4.01	4.36			
30	21	51	19.82	-.30	19.52	18.21	40.54	-1.79	-5.67	-23.36	20.85	-3.78		37.90	.62	1	4.06	4.37			
30	22	52	7.24	-.53	6.71	20.88	39.10	-.75	-4.34	-24.96	16.58	-3.70		39.59	.64	1	4.11	4.39			
30	23	53	-1.20	-.91	-2.11	16.89	37.78	-.47	-2.96	-20.69	18.24	-3.80		41.18	.64	1	4.16	4.40			
30	24	54	-12.17	-1.43	-13.60	19.56	36.46	.54	-1.66	-22.30	14.09	-3.82		42.65	.66	1	4.20	4.41			
30	25	55	-19.14	-2.09	-21.23	15.70	35.26	.82	-.31	-18.17	15.77	-4.01		44.03	.66	1	4.25	4.42			
30	26	56	-28.64	-2.88	-31.52	18.35	34.06	1.81	.97	-19.81	11.73	-4.11		45.31	.66	1	4.29	4.44			
30	27	57	-34.26	-3.78	-38.04	14.59	32.95	2.09	2.27	-15.77	13.43	-4.35		46.50	.68	1	4.34	4.45			
30	28	58	-42.42	-4.81	-47.23	17.25	31.85	3.05	3.52	-17.44	6.58	-4.53		47.60	.68	1	4.38	4.46			
30	29	59	-46.80	-3.58	-50.38	11.23	28.48	3.86	5.90	-11.14	7.82	-2.46		48.62	.68	1	4.42	4.47			
30	30	60	-53.72	-2.51	-56.23	13.92	25.15	5.32	8.17	-12.84	3.03	-.37					4.46	4.48	-54.19	-.47	2.04
30	31	61	-55.98	-1.59	-57.57	9.42	23.33	5.60	9.45	-8.05	4.82	-.94					4.50	4.49	-56.58	-.60	.99
30	32	62	-60.81	-.82	-61.63	12.13	21.55	6.53	10.67	-9.30	1.13	-1.42					4.54	4.50	-61.12	-.31	.52
30	33	63	-62.09	-.18	-62.27	8.72	20.84	6.80	11.90	-5.13	2.92	-2.00					4.57	4.51	-62.22	-.13	.05
30	34	64	-65.92	.32	-65.60	11.40	20.12	7.69	13.07	-6.88	-.67	-2.48					4.61	4.52	-66.01	-.09	-.41
30	35	65	-66.29	.70	-65.59	8.07	19.46	7.96	14.25	-3.27	1.13	-3.07					4.65	4.53	-65.91	.38	-.32
30	36	66	-69.20	.95	-68.25	10.73	18.79	8.82	15.38	-5.03	-2.39	-3.56					4.68	4.54	-68.89	.31	-.64
30	37	67	-68.74	1.08	-67.66	7.47	18.21	9.08	16.54	-1.52	-.59	-4.17					4.72	4.55	-67.88	.86	-.22
30	38	68	-70.80	1.10	-69.70	10.11	17.59	9.92	17.63	-3.28	-4.04	-4.68					4.75	4.56	-70.00	.80	-.30
30	39	69	-69.55	1.02	-68.53	6.91	17.02	10.16	18.73	.18	-2.22	-5.26					4.78	4.58	-68.42	1.13	.11
30	40	70	-70.81	.82	-69.99	9.52	16.44	10.96	19.79	-1.61	-5.59	-5.77					4.81	4.59	-69.56	1.25	.43
30	41	71	-68.85	.53	-68.32	6.40	15.93	11.21	20.86	1.76	-3.78	-6.37					4.85	4.60	-67.33	1.52	.99
30	42	72	-69.37	.14	-69.23	8.99	15.38	11.98	21.87	-.01	-7.08	-6.87					4.88	4.61	-68.13	1.24	1.10
30	43	73	-66.73	-.35	-67.08	5.92	14.91	12.21	22.91	3.29	-5.27	-7.47					4.91	4.62			
30	44	74	-66.56	-.92	-67.48	8.48	14.39	12.96	23.88	1.52	-8.50	-7.97					4.94	4.63			
30	45	75	-63.29	-1.58	-64.87	5.46	13.94	13.18	24.88	4.76	-6.68	-8.55					4.97	4.64			
30	46	76	-62.48	-2.33	-64.81	8.01	13.47	13.91	25.82	2.98	-9.86	-9.06					5.00	4.65			
30	47	77	-58.63	-3.16	-61.79	5.05	13.06	14.13	26.79	6.15	-8.05	-9.64					5.03	4.66			
30	48	78	-57.22	-4.07	-61.29	7.57	12.62	14.84	27.71	4.37	-11.17	-10.15					5.06	4.67			
30	49	79	-52.81	-5.05	-57.86	4.65	12.22	15.03	28.63	7.50	-9.35	-10.71					5.09	4.68			
30	50	80	-50.83	-6.11	-56.94	7.15	11.80	15.72	29.51	5.72	-14.80	-11.20					5.11	4.69			
30	51	81	-45.91	-4.87	-50.78	1.90	9.06	15.93	30.45	11.16	-12.97	-9.40					5.14	4.70			
30	52	82	-43.41	-3.73	-47.14	4.43	6.34	16.62	31.35	9.35	-15.96	-7.56					5.17	4.71			
30	53	83	-38.00	-2.70	-40.70	1.63	6.06	16.81	32.25	12.35	-14.12	-8.22					5.20	4.72			
30	54	84	-35.00	-1.77	-36.77	4.14	5.78	17.48	33.11	10.55	-17.07	-8.82					5.22	4.73			
30	55	85	-29.14	-.94	-30.08	1.38	5.52	17.67	33.98	13.50	-15.24	-9.47					5.25	4.74			
30	56	86	-25.67	-.20	-25.87	3.86	5.25	18.32	34.81	11.70	-18.13	-10.06					5.28	4.75			
30	57	87	-19.39	.44	-18.95	1.15	5.01	18.50	35.65	14.59	-16.31	-10.70					5.30	4.76			
30	58	88	-15.47	.99	-14.48	3.60	4.75	19.12	36.45	12.79	-19.15	-11.26					5.33	4.77			
30	59	89	-8.79	1.46	-7.33	.93	4.53	19.30	37.26	15.69	-17.32	-11.88	.04				5.35	4.78			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
30	60	90	-4.45	1.72	-2.73	3.47	4.40	20.02	38.15	14.00	-20.24	-12.55	.09				5.38	4.79			
30	61	91	2.61	1.83	4.44	.90	4.37	20.36	39.12	16.90	-18.56	-13.34	.12				5.40	4.80			
30	62	92	7.34	1.87	9.21	3.30	4.20	21.08	40.04	15.20	-21.43	-14.06	.13				5.43	4.81			
30	63	93	14.75	1.87	16.62	.66	3.96	21.30	40.95	18.05	-19.71	-14.79	.14				5.45	4.82			
30	64	94	19.86	1.86	21.72	2.98	3.63	21.90	41.73	16.35	-22.48	-15.38	.14				5.48	4.83			
30	65	95	27.61	1.83	29.44	.35	3.33	22.06	42.49	19.15	-20.72	-15.97	.14				5.50	4.84			
30	66	96	33.07	1.79	34.86	2.65	3.00	22.59	43.14	17.43	-23.42	-16.44	.14				5.52	4.85			
30	67	97	41.14	1.74	42.88	.05	2.70	22.69	43.74	20.17	-21.57	-16.89	.13				5.55	4.86			
30	68	98	46.94	1.67	48.61	2.35	2.39	23.13	44.25	18.42	-24.08	-17.23	.12				5.57	4.87			
30	70	100	61.42	1.36	62.78	2.16	1.97	23.48	45.26	19.20	-24.55	-17.93	.08				5.62	4.89			
30	72	102	76.50	.50	77.00	2.14	1.92	24.06	46.51	19.58	-25.28	-18.89					5.66	4.91			
30	74	104	92.14	-.66	91.48	1.97	1.66	24.68	47.77	20.26	-26.03	-19.87					5.71	4.93			
30	76	106	108.30	-2.04‘	106.26	1.82	1.36	25.28	48.99	21.05	-26.77	-20.83					5.75	4.95			
30	78	108	124.98	-3.64	121.34	1.66	1.07	25.86	50.16	21.82	-27.46	-21.76					5.79	4.97			
30	80	110	142.13	-5.46	136.67	1.52	.80	26.43	51.31	22.55	-28.14	-22.67					5.84	4.99			
30	82	112	159.75	-7.48	152.27	1.38	.54	26.97	52.42	23.27	-31.09	-23.56					5.88	5.01			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
31	25	56	-10.59	-1.12	-11.71	16.72	36.56	-2.23	-1.41	-16.47	19.81	-4.27		42.98	.64	1	4.26	4.47			
31	26	57	-20.36	-1.91	-22.27	18.63	35.35	-1.96	-.15	-18.12	15.78	-4.35		44.33	.66	1	4.31	4.48			
31	27	58	-26.97	-2.82	-29.79	15.59	34.22	-.97	1.12	-14.13	17.43	-4.52		45.59	.66	1	4.35	4.49			
31	28	59	-35.40	-3.84	-39.24	17.52	33.11	-.69	2.35	-15.80	11.14	-4.67		46.76	.66	1	4.39	4.50			
31	29	60	-40.75	-2.64	-43.39	12.22	29.74	.30	4.16	-9.58	12.84	-2.57		47.85	.68	1	4.43	4.51			
31	30	61	-47.93	-1.59	-49.52	14.21	26.43	.58	5.90	-11.28	8.05	-.48		48.86	.68	1	4.47	4.52			
31	31	62	-51.64	-.69	-52.33	10.88	25.09	2.05	7.65	-7.04	9.29	-.95		49.79	.68	1	4.51	4.53			
31	32	63	-57.21	.06	-57.15	12.89	23.77	2.81	9.34	-8.29	5.12	-1.37		50.64	.68	1	4.55	4.54	-56.72	.49	.43
31	33	64	-59.40	.68	-58.72	9.65	22.54	3.74	10.54	-3.68	6.88	-1.89					4.59	4.56	-58.93	.47	-.21
31	34	65	-63.49	1.17	-62.32	11.67	21.32	4.01	11.70	-5.43	3.28	-2.36					4.62	4.57	-62.65	.84	-.34
31	35	66	-64.75	1.53	-63.22	8.97	20.64	4.91	12.87	-1.86	5.04	-2.89					4.66	4.58	-63.72	1.03	-.50
31	36	67	-67.91	1.78	-66.'13	10.99	19.96	5.17	13.98	-3.51	1.53	-3.36					4.69	4.59	-66.88	1.03	-.75
31	37	68	-68.31	1.89	-66.42	8.35	19.35	6.05	15.13	.07	3.27	-3.92	.05				4.73	4.60	-67.09	1.22	-.66
31	38	69	-70.61	1.90	-68.71	10.36	18.72	6.31	16.22	-1.62	-.18	-4.41	.06				4.76	4.61	-69.32	1.29	-.61
31	39	70	-70.20	1.82	-68.38	7.75	18.11	7.14	17.30	1.81	1.61	-4.94	.04				4.80	4.62	-68.91	1.29	-.53
31	40	71	-71.70	1.62	-70.08	9.77	17.52	7.38	18.34	-.01	-1.77	-5.44					4.83	4.63	-70.14	1.56	-.06
31	41	72	-70.54	1.32	-69.22	7.21	16.98	8.19	19.40	3.23	.01	-5.98					4.86	4.64	-68.59	1.95	.63
31	42	73	-71.29	.93	-70.36	9.22	16.43	8.42	20.40	1.36	-3.29	-6.47					4.89	4.65	-69.74	1.55	.62
31	43	74	-69.44	.44	-69.00	6.71	15.93	9.22	21.43	4.59	-1.52	-7.03					4.92	4.66	-67.92	1.52	1.08
31	44	75	-69.50	-.14	-69.64	8.71	15.42	9.44	22.41	2.81	-4.76	-7.53					4.95	4.67	-68.54	.96	1.10
31	45	76	-66.99	-.80	-67.79	6.23	14.94	10.20	23.39	6.04	-2.97	-8.06					4.98	4.68			
31	46	77	-66.39	-1.55	-67.94	8.22	14.45	10.41	24.33	4.26	-6.15	-8.56					5.01	4.69			
31	47	78	-63.28	-2.38	-65.66	5.79	14.01	11.16	25.29	7.42	-4.38	-9.10					5.04	4.70			
31	48	79	-62.07	-3.28	-65.35	7.77	13.55	11.36	26.19	5.65	-7.49	-9.59					5.07	4.71			
31	49	80	-58.39	-4.27	-62.66	5.37	13.15	12.08	27.12	8.74	-5.72	-10.13					5.10	4.72			
31	50	81	-56.61	-5.32	-61.93	7.35	12.71	12.28	27.99	6.97	-11.15	-10.62					5.13	4.73			
31	51	82	-52.39	-4.10	-56.49	2.62	9.98	13.00	28.93	12.37	-9.35	-8.80					5.16	4.74			
31	52	83	-50.08	-2.97	-53.05	4.64	7.26	13.21	29.82	10.57	-12.35	-6.96					5.18	4.75			
31	53	84	-45.36	-1.96	-47.32	2.34	6.97	13.90	30.72	13.54	-10.55	-7.61					5.21	4.76			
31	54	85	-42.54	-1.04	-43.58	4.34	6.67	14.10	31.58	11.75	-13.50	-8.20					5.24	4.77			
31	55	86	-37.34	-.22	-37.56	2.06	6.39	14.77	32.44	14.68	-11.69	-8.81					5.26	4.78			
31	56	87	-34.05	.50	-33.55	4.05	6.12	14.97	33.28	12.88	-14.60	-9.40					5.29	4.79			
31	57	88	-28.41	1.14	-27.27	1.80	5.85	15.62	34.11	15.77	-12.79	-10.00					5.31	4.80			
31	58	89	-24.66	1.64	-23.02	3.81	5.62	15.83	34.95	13.97	-15.69	-10.60	.07				5.34	4.81			
31	59	90	-18.61	1.88	-16.73	1.78	5.60	16.69	35.98	16.85	-14.00	-11.42	.11				5.37	4.82			
31	60	91	-14.43	1.97	-12.46	3.80	5.59	17.01	37.03	15.14	-16.90	-12.24	.13				5.39	4.83			
31	61	92	-7.99	1.99	-6.00	1.60	5.42	17.72	38.09	18.01	-15.21	-13.10	.14				5.42	4.84			
31	62	93	-3.41	1.98	-1.43	3.51	5.11	17.92	39.01	16.31	-18.06	-13.85	.15				5.44	4.85			
31	63	94	3.41	1.96	5.37	1.28	4.78	18.55	39.85	19.15	-16.34	-14.57	.15				5.46	4.86			
31	64	95	8.36	1.92	10.28	3.15	4.43	18.72	40.62	17.44	-19.16	-15.14	.15				5.49	4.87			
31	65	96	15.54	1.89	17.43	.93	4.08	19.30	41.35	20.24	-17.43	-15.63	.16				5.51	4.88			
31	66	97	20.85	1.86	22.71	2.79	3.72	19.44	42.03	18.53	-20.17	-16.04	.15				5.54	4.89			
31	67	98	28.36	1.83	30.19	.60	3.38	19.98	42.66	21.27	-18.41	-16.44	.15				5.56	4.90			
31	68	99	34.02	1.79	35.81	2.45	3.05	20.08	43.22	19.55	-21.05	-16.77	.15				5.58	4.91			
31	69	100	41.84	1.73	43.57	.30	2.76	20.58	43.69	22.21	-19.21	-17.13	.14				5.61	4.92			
31	70	101	47.82	1.64	49.46	2.18	2.49	20.61	44.08	20.44	-21.61	-17.42	.12				5.63	4.93			
31	71	102	55.95	1.48	57.43	.11	2.29	20.93	44.48	23.00	-19.57	-17.68	.10				5.65	4.94			
31	72	103	62.23	1.12	63.35	2.14	2.26	20.93	45.00	21.01	-22.03	-18.04					5.67	4.95			
31	73	104	70.64	.58	71.22	.21	2.34	21.46	45.64	23.28	-20.26	-18.54					5.70	4.96			
31	74	105	77.23	-.03	77.20	2.09	2.30	21.57	46.25	21.37	-22.81	-19.00					5.72	4.97			
31	75	106	85.91	-.69	85.22	.05	2.14	22.08	46.87	23.91	-21.04	-19.48					5.74	4.98			
31	76	107	92.77	-1.41	91.36	1.93	1.98	22.20	47.47	22.16	-23.56	-19.94					5.76	4.99			
31	78	109	108.83	-3.02	105.81	1.77	1.69	22.81	48.67	22.90	-24.31	-20.87					5.80	5.01			
31	80	111	125.39	-4.83	120.56	1.63	1.40	23.40	49.83	23.63	-25.02	-21.77					5.85	5.03			
31	82	113	142.43	-6.84	135.59	1.48	1.12	23.97	50.94	24.35	-27.97	-22.64					5.89	5.05			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
32	20	52	51.57	1.59	53.16	23.61	44.65	-2.99	-8.92	-29.41	21.49	-4.75	.09	33.14	.58	1	4.04	4.44			
32	21	53	40.19	1.53	41.72	19.52	43.12	-2.76	-7.62	-25.09	23.14	-4.62	.05	35.11	.58	1	4.09	4.46			
32	22	54	26.36	1.28	27.64	22.14	41.67	-1.77	-6.35	-26.79	18.94	-4.45		36.94	.60	1	4.14	4.47			
32	23	55	16.61	.89	17.50	18.21	40.36	-1.50	-5.03	-22.79	20.56	-4.45		38.67	.62	1	4.19	4.48			
32	24	56	4.41	.35	4.76	20.80	39.02	-.54	-3.79	-24.53	16.47	-4.38		40.30	.62	1	4.23	4.50			
32	25	57	-3.84	-.31	-4.15	16.98	37.79	-.27	-2.50	-20.44	18.12	-4.46		41.82	.62	1	4.28	4.51			
32	26	58	-14.56	-1.10	-15.66	19.57	36.56	.67	-1.28	-22.06	14.13	-4.48		43.24	.64	1	4.32	4.52			
32	27	59	-21.44	-2.00	-23.44	15.86	35.43	.94	-.03	-18.08	15.80	-4.63		44.57	.64	1	4.36	4.53			
32	28	60	-30.78	-3.02	-33.80	18.43	34.29	1.86	1.16	-19.70	9.59	-4.71		45.81	.66	1	4.41	4.54			
32	29	61	-36.40	-1.84	-38.24	12.51	30.94	2.15	2.44	-13.52	11.28	-2.62		46.97	.66	1	4.45	4.55			
32	30	62	-44.48	-.82	-45.30	15.13	27.64	3.06	3.65	-15.19	7.03	-.50		48.04	.66	1	4.49	4.56			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
32	31	63	-48.93	.06	-48.87	11.64	26.77	3.83	5.88	-11.43	8.27	-.92		49.04	.66	1	4.52	4.58			
32	32	64	-55.84	.80	-55.04	14.24	25.89	5.18	8.00	-13.10	3.68	-1.24		49.96	.68	1	4.56	4.59			
32	33	65	-58.30	1.41	-56.89	9.92	24.17	5.46	9.20	-8.50	5.43	-1.74		50.81	.68	1	4.60	4.60	-56.36	1.94	.53
32	34	66	-63.24	1.88	-61.36	12.55	22.46	6.34	10.34	-9.71	1.86	-2.16	.06	51.59	.68	1	4.64	4.61	-61.62	1.62	-.26
32	35	67	-64.75	2.12	-62.63	9.34	21.89	6.70	11.61	-5.60	3.51	-2.79	.10	52.31	.68	1	4.67	4.62	-62.45	2.30	.18
32	36	68	-68.74	2.24	-66.50	11.94	21.28	7.65	12.82	-7.22	-.08	-3.33	.11				4.71	4.63	-66.70	2.04	-.20
32	37	69	-69.38	2.29	-67.09	8.66	20.61	7.96	14.01	-3.63	1.62	-3.92	.12				4.74	4.64	-67.10	2.28	-.01
32	38	70	-72.49	2.29	-70.20	11.18	19.85	8.78	15.09	-5.29	-1.82	-4.37	.12				4.78	4.65	-70.56	1.93	-.36
32	39	71	-72.31	2.25	-70.06	7.94	19.12	8.97	16.10	-1.80	.02	-4.83	.12				4.81	4.66	-69.90	2.41	.16
32	40	72	-74.60	2.15	-72.45	10.46	18.40	9.67	17.04	-3.52	-3.23	-5.18	.10				4.84	4.67	-72.58	2.02	-.13
32	41	73	-73.67	1.95	-71.72	7.34	17.80	9.79	17.98	-.21	-1.35	-5.61	.07				4.87	4.68	-71.29	2.38	.43
32	42	74	-75.19	1.59	-73.60	9.95	17.29	10.52	18.95	-2.12	-4.60	-6.03					4.90	4.69	-73.42	1.77	.18
32	43	75	-73.56	1.10	-72.46	6.93	16.88	10.75	19.97	.97	-2.83	-6.57					4.94	4.70	-71.84	1.72	.62
32	44	76	-74.35	.53	-73.82	9.44	16.37	11.48	20.91	-.85	-6.03	-7.01					4.97	4.71	-73.21	1.14	.61
32	45	77	-72.07	-.14	-72.21	6.45	15.90	11.71	21.91	2.36	-4.27	-7.56					5.00	4.72	-71.16	.91	1.05
32	46	78	-72.19	-.89	-73.08	8.94	15.39	12.42	22.84	.62	-7.42	-8.02					5.03	4.73	-71.78	.41	1.30
32	47	79	-69.29	-1.71	-71.00	6.00	14.94	12.64	23.79	3.78	-5.64	-8.55					5.05	4.74	-69.39	-.10	1.61
32	48	80	-68.78	-2.62	-71.40	8.47	14.47	13.33	24.69	2.04	-8.74	-9.01					5.08	4.75			
32	49	81	-65.30	-3.60	-68.90	5.57	14.04	13.53	25.62	5.14	-6.96	-9.54					5.11	4.76			
32	50	82	-64.20	-4.65	-68.85	8.02	13.59	14.21	26.48	3.40	-12.36	-9.99					5.14	4.77			
32	51	83	-60.18	-3.44	-63.62	2.84	10.86	14.42	27.42	8.78	-10.57	-8.18					5.17	4.78			
32	52	84	-58.53	-2.33	-60.86	5.31	8.15	15.10	28.30	7.02	-13.54	-6.34					5.19	4.79			
32	53	85	-54.00	-1.33	-55.33	2.54	7.85	15.30	29.21	9.99	-11.75	-6.98					5.22	4.79			
32	54	86	-51.82	-.42	-52.24	4.99	7.52	15.96	30.05	8.24	-14.67	-7.53					5.25	4.80			
32	55	87	-46.81	.38	-46.43	2.25	7.25	16.15	30.93	11.16	-12.89	-8.15					5.28	4.81			
32	56	88	-44.14	1.10	-43.04	4.69	6.94	16.79	31.75	9.40	-15.77	-8.70					5.30	4.82			
32	57	89	-38.68	1.69	-36.99	2.02	6.71	17.01	32.62	12.26	-13.97	-9.33	.07				5.33	4.83			
32	58	90	-35.54	1.96	-33.58	4.66	6.68	17.86	33.68	10.47	-16.85	-10.14	.12				5.35	4.84			
32	59	91	-29.66	2.05	-27.61	2.09	6.76	18.17	34.86	13.35	-15.15	-11.09	.13				5.38	4.85			
32	60	92	-26.08	2.07	-24.01	4.48	6.57	18.84	35.85	11.66	-18.02	-11.96	.15				5.40	4.86			
32	61	93	-19.79	2.05	-17.74	1.81	6.28	19.04	36.76	14.54	-16.31	-12.83	.16				5.43	4.87			
32	62	94	-15.80	2.01	-13.79	4.12	5.93	19.65	37.58	12.85	-19.16	-13.48	.16				5.45	4.88			
32	63	95	-9.13	1.97	-7.16	1.45	5.56	19.82	38.37	15.70	-17.45	-14.02	.16				5.48	4.89			
32	64	96	-4.74	1.93	-2.81	3.72	5.17	20.39	39.10	14.03	-20.24	-14.44	.16				5.50	4.90			
32	65	97	2.28	1.90	4.18	1.09	4.80	20.54	39.84	16.82	-18.53	-14.87	.16				5.52	4.91			
32	66	98	7.05	1.87	8.92	3.33	4.41	21.08	40.52	15.15	-21.27	-15.22	.16				5.55	4.92			
32	67	99	14.41	1.85	16.26	.73	4.06	21.22	41.20	17.90	-19.55	-15.60	.16				5.57	4.93			
32	68	100	19.53	1.83	21.36	2.97	3.70	21.74	41.82	16.21	-22.22	-15.92	.16				5.59	4.94			
32	69	101	27.22	1.80	29.02	.41	3.38	21.84	42.42	18.91	-20.45	-16.29	.15				5.62	4.95			
32	70	102	32.68	1.76	34.44	2.65	3.06	22.32	42.92	17.20	-22.98	-16.59	.14				5.64	4.96			
32	71	103	40.67	1.67	42.34	.16	2.82	22.37	43.31	19.80	-21.02	-16.95	.12				5.66	4.97			
32	72	104	46.45	1.50	47.95	2.46	2.63	22.70	43.63	18.00	-23.27	-17.26	.10				5.68	4.98			
32	73	105	54.73	1.10	55.83	.18	2.65	22.67	44.13	20.33	-21.36	-17.66					5.71	4.99			
32	74	106	60.81	.50	61.31	2.59	2.78	23.18	44.75	18.27	-23.90	-18.11					5.73	5.00			
32	75	107	69.37	-.16	69.21	.18	2.76	23.29	45.37	20.72	-22.14	-18.60					5.75	5.01			
32	76	108	75.74	-.88	74.86	2.42	2.59	23.78	45.98	18.99	-24.66	-19.05					5.77	5.02			
32	77	109	84.56	-1.66	82.90	.03	2.45	23.90	46.60	21.49	-22.91	-19.53					5.79	5.03			
32	78	110	91.22	-2.48	88.74	2.24	2.26	24.37	47.17	19.78	-25.38	-19.95					5.82	5.04			
32	80	112	107.20	-4.29	102.91	2.09	1.97	24.94	48.34	20.53	-26.09	-20.85					5.86	5.06			
32	82	114	123.68	-6.30	117.38	1.93	1.68	25.50	49.46	21.27	-29.03	-21.71					5.90	5.08			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
33	27	60	-12.77	-1.33	-14.10	16.81	36.64	-2.05	-1.11	-16.42	19.71	-4.81		43.45	.62	1	4.38	4.57			
33	28	61	-22.37	-2.35	-24.72	18.69	35.50	-1.80	.06	-18.05	13.52	-4.87		44.75	.64	1	4.42	4.58			
33	29	62	-28.92	-1.19	-30.11	13.46	32.15	-.84	1.30	-11.94	15.18	-2.74		45.98	.64	1	4.46	4.59			
33	30	63	-37.26	-.18	-37.44	15.40	28.86	-.56	2.50	-13.60	11.42	-.63		47.12	.64	1	4.50	4.60			
33	31	64	-42.62	.68	-41.94	12.57	27.97	.36	4.19	-9.89	13.10	-.98		48.18	.66	1	4.54	4.62			
33	32	65	-49.80	1.41	-48.39	14.52	27.09	.64	5.83	-11.57	8.50	-1.29		49.16	.66	1	4.58	4.63			
33	33	66	-53.61	1.96	-51.65	11.34	25.85	2.05	7.51	-7.50	9.71	-1.75	.08	50.08	.66	1	4.61	4.64			
33	34	67	-59.25	2.22	-57.03	13.45	24.79	2.95	9.29	-8.70	5.59	-2.31	.12	50.93	.66	1	4.65	4.65			
33	35	68	-61.63	2.35	-59.28	10.32	23.78	3.94	10.64	-4.18	7.21	-2.99	.13	51.71	.68	1	4.68	4.66			
33	36	69	-65.87	2.41	-63.46	12.25	22.58	4.25	11.90	-5.81	3.63	-3.57	.14	52.42	.68	1	4.72	4.67	-63.13	2.74	.33
33	37	70	-67.35	2.43	-64.92	9.53	21.79	5.12	13.08	-2.25	5.27	-4.13	.14	53.07	.68	1	4.75	4.68	-64.34	3.01	.58
33	38	71	-70.70	2.43	-68.27	11.42	20.96	5.36	14.14	-3.89	1.80	-4.56	.14	53.67	.68	1	4.79	4.69	-67.89	2.81	.38
33	39	72	-71.34	2.41	-68.93	8.74	20.16	6.15	15.13	-.42	3.52	-4.94	.14	54.21	.68	1	4.82	4.70	-68.23	3.11	.70
33	40	73	-73.86	2.36	-71.50	10.64	19.38	6.34	16.00	-2.09	.22	-5.22	.13				4.85	4.71	-70.95	2.91	.55
33	41	74	-73.73	2.25	-71.48	8.05	18.69	7.05	16.84	1.24	2.11	-5.52	.12				4.89	4.72	-70.86	2.87	.62
33	42	75	-75.48	2.05	-73.43	10.02	18.07	7.13	17.64	-.55	-.98	-5.78	.09				4.92	4.73	-73.03	2.45	.40
33	43	76	-74.62	1.65	-72.97	7.62	17.63	7.81	18.55	2.52	.86	-6.18					4.95	4.74	-72.29	2.33	.68
33	44	77	-75.64	1.07	-74.57	9.67	17.28	8.03	19.52	.54	-2.37	-6.63					4.98	4.75	-73.92	1.72	.65
33	45	78	-74.10	.41	-73.69	7.20	16.86	8.78	20.48	3.67	-.61	-7.12					5.01	4.76	-72.76	1.34	.93
33	46	79	-74.44	-.34	-74.78	9.15	16.35	8.99	21.42	1.92	-3.78	-7.57					5.04	4.77	-73.69	.75	1.09
33	47	80	-72.27	-1.16	-73.43	6.72	15.88	9.72	22.35	5.06	-2.03	-8.07					5.07	4.78	-71.76	.51	1.67
33	48	81	-71.97	-2.07	-74.04	8.67	15.40	9.93	23.26	3.32	-5.14	-8.52					5.10	4.78	-72.59	-.62	1.45
33	49	82	-69.21	-3.04	-72.25	6.28	14.96	10.64	24.17	6.40	-3.39	-9.02					5.12	4.79			
33	50	83	-68.31	-4.09	-72.40	8.23	14.50	10.84	25.04	4.66	-8.78	-9.47					5.15	4.80			
33	51	84	-64.98	-2.90	-67.88	3.54	11.77	11.54	25.97	10.00	-7.02	-7.65					5.18	4.81			
33	52	85	-63.52	-1.80	-65.32	5.52	9.06	11.75	26.85	8.25	-9.99	-5.81					5.21	4.82			
33	53	86	-59.67	-.81	-60.48	3.23	8.75	12.44	27.74	11.20	-8.24	-6.42					5.23	4.83			
33	54	87	-57.68	.08	-57.60	5.19	8.42	12.64	28.60	9.44	-11.17	-6.97					5.26	4.84			
33	55	88	-53.32	.88	-52.44	2.92	8.11	13.30	29.45	12.36	-9.40	-7.55					5.29	4.85			
33	56	89	-50.83	1.58	-49.25	4.88	7.80	13.49	30.29	10.59	-12.26	-8.10	.04				5.31	4.86			
33	57	90	-46.01	1.96	-44.05	2.87	7.75	14.35	31.35	13.34	-10.47	-8.91	.11				5.34	4.87			
33	58	91	-43.05	2.09	-40.96	4.97	7.85	14.66	32.52	11.56	-13.36	-9.84	.13				5.36	4.88			
33	59	92	-37.79	2.12	-35.67	2.78	7.76	15.35	33.52	14.43	-11.66	-10.82	.15				5.39	4.89			
33	60	93	-34.38	2.10	-32.28	4.68	7.47	15.56	34.40	12.74	-14.54	-11.69	.16				5.41	4.90			
33	61	94	-28.70	2.06	-26.64	2.44	7.12	16.19	35.23	15.60	-12.86	-12.34	.16				5.44	4.91			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
33	62	95	-24.87	2.01	-22.86	4.29	6.72	16.37	36.01	13.93	-15.70	-12.82	.17				5.46	4.92			
33	63	96	-18.79	1.96	-16.83	2.04	6.33	16.96	36.77	16.76	-14.02	-13.26	.17				5.49	4.93			
33	64	97	-14.56	1.91	-12.65	3.88	5.93	17.13	37.52	15.08	-16.83	-13.65	.17				5.51	4.94			
33	65	98	-8.11	1.88	-6.23	1.66	5.54	17.70	38.24	17.87	-15.15	-14.02	.17				5.54	4.95			
33	66	99	-3.50	1.86	-1.64	3.48	5.14	17.85	38.93	16.20	-17.90	-14.35	.17				5.56	4.96			
33	67	100	3.30	1.84	5.14	1.29	4.77	18.41	39.63	18.94	-16.22	-14.72	.17				5.58	4.97			
33	68	101	8.28	1.83	10.11	3.11	4.39	18.54	40.27	17.27	-18.91	-15.03	.16				5.61	4.98			
33	69	102	15.42	1.82	17.24	.94	4.05	19.07	40.91	19.96	-17.19	-15.37	.16				5.63	4.99			
33	70	103	20.74	1.80	22.54	2.77	3.71	19.18	41.50	18.27	-19.80	-15.69	.15				5.65	5.00			
33	71	104	28.19	1.76	29.95	.66	3.43	19.68	42.05	20.88	-17.99	-16.05	.14				5.67	5.01			
33	72	105	33.84	1.67	35.51	2.52	3.17	19.73	42.43	19.14	-20.32	-16.38	.12				5.70	5.02			
33	73	106	41.60	1.45	43.05	.53	3.05	20.07	42.75	21.60	-18.26	-16.80	.09				5.72	5.03			
33	74	107	47.55	.94	48.49	2.63	3.16	20.11	43.28	19.56	-20.71	-17.29					5.74	5.04			
33	75	108	55.60	.27	55.87	.68	3.32	20.62	43.92	21.82	-18.99	-17.77					5.76	5.05			
33	76	109	61.85	-.44	61.41	2.54	3.22	20.74	44.52	20.09	-21.50	-18.21					5.78	5.06			
33	77	110	70.17	-1.21	68.96	.52	3.06	21.24	45.13	22.59	-19.77	-18.68					5.81	5.07			
33	78	111	76.71	-2.04	74.67	2.36	2.88	21.35	45.72	20.87	-22.26	-19.11					5.83	5.08			
33	79	112	85.29	-2.91	82.38	.36	2.72	21.84	46.31	23.34	-20.53	-19.56					5.85	5.09			
33	80	113	92.09	-3.84	88.25	2.20	2.56	21.95	46.89	21.62	-22.99	-19.99					5.87	5.10			
33	81	114	100.93	-4.82	96.11	.21	2.41	22.42	47.47	24.06	-21.27	-20.43					5.89	5.11			
33	82	115	107.99	-5.84	102.15	2.04	2.25	22.53	48.02	22.36	-25.94	-20.84					5.91	5.12			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
34	22	56	47.98	1.93	49.91	23.06	43.69	-2.33	-7.69	-28.41	20.62	-5.68	.16	33.90	.56	1	4.16	4.55			
34	23	57	36.98	1.85	38.83	19.14	42.21	-2.26	-6.75	-24.32	22.54	-5.31	.13	35.78	.56	1	4.21	4.56			
34	24	58	23.59	1.54	25.13	21.78	40.91	-1.55	-5.79	-26.08	18.73	-4.94	.05	37.53	.58	1	4.26	4.58			
34	25	59	14.11	.88	14.99	18.21	39.99	-1.30	-4.56	-22.46	20.35	-4.93		39.18	.60	1	4.30	4.59			
34	26	60	2.23	.10	2.33	20.73	38.95	-.40	-3.41	-24.18	16.43	-4.86		40.75	.60	1	4.35	4.60			
34	27	61	-5.86	-.80	-6.66	17.06	37.79	-.15	-2.20	-20.26	18.06	-4.93		42.21	.62	1	4.39	4.61			
34	28	62	-16.36	-1.81	-18.17	19.58	36.64	.74	-1.06	-21.87	11.94	-4.94		43.59	.62	1	4.43	4.62			
34	29	63	-23.16	-.67	-23.83	13.73	33.31	1.01	.17	-15.78	13.61	-2.81		44.88	.62	1	4.47	4.63			
34	30	64	-32.38	.32	-32.06	16.29	30.03	1.91	1.34	-17.42	9.88	-.68		46.08	.64	1	4.51	4.64			
34	31	65	-37.99	1.17	-36.82	12.84	29.13	2.17	2.53	-13.70	11.57	-1.00		47.21	.64	1	4.55	4.66			
34	32	66	-46.01	1.86	-44.15	15.40	28.24	3.05	3.69	-15.37	7.50	-1.28	.07	48.26	.64	1	4.59	4.67			
34	33	67	-50.53	2.20	-48.33	12.25	27.65	3.98	6.02	-11.81	8.70	-1.89	.12	49.24	.66	1	4.63	4.68			
34	34	68	-57.45	2.35	-55.10	14.84	27.09	5.36	8.32	-13.41	4.18	-2.49	.14	50.15	.66	1	4.66	4.69			
34	35	69	-60.07	2.42	-57.65	10.63	25.46	5.66	9.60	-8.89	5.81	-3.19	.15	50.99	.66	1	4.70	4.70			
34	36	70	-65.12	2.45	-62.67	13.09	23.72	6.50	10.75	-10.05	2.24	-3.73	.16	51.76	.66	1	4.73	4.71			
34	37	71	-66.84	2.46	-64.38	9.78	22.87	6.75	11.87	-6.06	3.88	-4.18	.16	52.48	.66	1	4.77	4.72	-62.89	3.95	1.49
34	38	72	-70.98	2.47	-68.51	12.21	21.99	7.54	12.90	-7.65	.42	-4.44	.16	53.13	.68	1	4.80	4.73	-67.63	3.35	.88
34	39	73	-71.86	2.46	-69.40	8.96	21.17	7.76	13.91	-4.17	2.11	-4.74	.15	53.73	.68	1	4.83	4.74	-68.21	3.65	1.19
34	40	74	-75.15	2.43	-72.72	11.39	20.35	8.50	14.85	-5.81	-1.24	-4.95	.15	54.27	.68	1	4.87	4.75	-72.21	2.94	.51
34	41	75	-75.25	2.37	-72.88	8.23	19.62	8.69	15.74	-2.44	.55	-5.24	.14	54.76	.68	1	4.90	4.76	-72.16	3.09	.72
34	42	76	-77.74	2.25	-75.49	10.69	18.91	9.35	16.47	-4.14	-2.52	-5.46	.12	55.20	.68	1	4.93	4.77	-75.25	2.49	.24
34	43	77	-77.11	2.00	-75.11	7.69	18.37	9.43	17.23	-.96	-.54	-5.82	.09	55.59	.68	1	4.96	4.78	-74.60	2.51	.51
34	44	78	-78.86	1.50	-77.36	10.32	18.01	10.08	18.11	-2.92	-3.66	-6.19					4.99	4.78	-77.03	1.83	.33
34	45	79	-77.54	.84	-76.70	7.42	17.73	10.30	19.07	.07	-1.92	-6.67					5.02	4.79	-75.93	1.61	.77
34	46	80	-78.59	.09	-78.50	9.86	17.29	11.00	20.00	-1.66	-5.06	-7.10					5.05	4.80	-77.76	.83	.74
34	47	81	-76.63	-.73	-77.36	6.93	16.80	11.21	20.94	1.48	-3.32	-7.58					5.08	4.81	-76.39	.24	.97
34	48	82	-77.02	-1.63	-78.65	9.36	16.30	11.89	21.83	-.23	-6.40	-8.00					5.11	4.82	-77.59	-.57	1.06
34	49	83	-74.46	-2.60	-77.06	6.48	15.85	12.10	22.74	2.86	-4.66	-8.48					5.14	4.83	-75.44	-.98	1.62
34	50	84	-74.24	-3.64	-77.88	8.90	15.38	12.77	23.60	1.15	-10.00	-8.90					5.16	4.84	-75.92	-1.68	1.96
34	51	85	-71.11	-2.46	-73.57	3.76	12.65	12.98	24.53	6.48	-8.25	-7.10					5.19	4.85			
34	52	86	-70.30	-1.38	-71.68	6.18	9.94	13.64	25.40	4.75	-11.20	-5.25					5.22	4.86			
34	53	87	-66.64	-.40	-67.04	3.43	9.62	13.85	26.29	7.71	-9.45	-5.84					5.25	4.87			
34	54	88	-65.29	.49	-64.80	5.84	9.26	14.50	27.14	5.98	-12.36	-6.36					5.27	4.88			
34	55	89	-61.12	1.28	-59.84	3.11	8.95	14.69	27.99	8.91	-10.59	-6.94					5.30	4.89			
34	56	90	-59.25	1.87	-57.38	5.61	8.72	15.42	28.92	7.07	-13.33	-7.56	.09				5.33	4.90			
34	57	91	-54.61	2.09	-52.52	3.20	8.82	15.75	30.11	9.81	-11.56	-8.52	.13				5.35	4.91			
34	58	92	-52.26	2.16	-50.10	5.65	8.86	16.44	31.09	8.08	-14.43	-9.48	.15				5.38	4.92			
34	59	93	-47.17	2.15	-45.02	3.00	8.64	16.65	31.99	10.95	-12.74	-10.45	.16				5.40	4.93			
34	60	94	-44.35	2.10	-42.25	5.30	8.29	17.26	32.82	9.28	-15.61	-11.09	.16				5.43	4.94			
34	61	95	-38.84	2.05	-36.79	2.62	7.91	17.44	33.63	12.15	-13.93	-11.61	.17				5.45	4.95			
34	62	96	-35.58	1.99	-33.59	4.87	7.49	18.02	34.38	10.51	-16.75	-12.01	.17				5.48	4.96			
34	63	97	-29.67	1.94	-27.73	2.21	7.08	18.19	35.15	13.34	-15.09	-12.41	.18				5.50	4.97			
34	64	98	-26.00	1.89	-24.11	4.45	6.66	18.75	35.88	11.69	-17.88	-12.75	.17				5.52	4.98			
34	65	99	-19.70	1.86	-17.84	1.81	6.25	18.90	36.60	14.49	-16.20	-13.10	.17				5.55	4.99			
34	66	100	-15.64	1.84	-13.80	4.03	5.84	19.45	37.30	12.84	-18.95	-13.42	.17				5.57	5.00			
34	67	101	-8.99	1.83	-7.16	1.44	5.46	19.60	38.00	15.59	-17.27	-13.77	.17				5.59	5.01			
34	68	102	-4.55	1.83	-2.72	3.64	5.06	20.12	38.66	13.95	-19.96	-14.06	.17				5.62	5.01			
34	69	103	2.45	1.83	4.28	1.08	4.70	20.25	39.32	16.65	-18.26	-14.40	.16				5.64	5.02			
34	70	104	7.24	1.82	9.06	3.28	4.36	20.76	39.95	14.98	-20.89	-14.72	.16				5.66	5.03			
34	71	105	14.56	1.81	16.37	.77	4.05	20.88	40.55	17.63	-19.13	-15.07	.15				5.69	5.04			
34	72	106	19.70	1.75	21.45	2.99	3.76	21.34	41.07	15.93	-21.59	-15.41	.13				5.71	5.05			
34	73	107	27.32	1.61	28.93	.59	3.58	21.40	41.48	18.45	-19.56	-15.83	.11				5.73	5.06			
34	74	108	32.78	1.27	34.05	2.95	3.54	21.72	41.84	16.56	-21.82	-16.32	.05				5.75	5.07			
34	75	109	40.70	.62	41.32	.80	3.76	21.84	42.46	18.75	-20.09	-16.94					5.77	5.08			
34	76	110	46.46	-.09	46.37	3.02	3.83	22.33	43.07	16.96	-22.59	-17.37					5.80	5.09			
34	77	111	54.66	-.86	53.80	.64	3.66	22.45	43.69	19.47	-20.87	-17.83					5.82	5.10			
34	78	112	60.72	-1.68	59.04	2.84	3.48	22.92	44.27	17.77	-23.34	-18.25					5.84	5.11			
34	79	113	69.19	-2.55	66.64	.48	3.31	23.03	44.86	20.26	-21.61	-18.69					5.86	5.12			
34	80	114	75.53	-3.48	72.05	2.65	3.13	23.49	45.44	18.56	-24.06	-19.11					5.88	5.13			
34	81	115	84.24	-4.45	79.79	.33	2.98	23.61	46.03	21.00	-22.35	-19.56					5.90	5.14			
34	82	116	90.85	-5.47	85.38	2.49	2.81	24.06	46.58	19.32	-27.00	-19.96					5.92	5.15			
34	84	118	106.68	-3.23	103.45	.12	-1.93	24.62	47.73	22.27	-27.65	-16.36					5.96	5.17			
34	86	120	122.98	-1.27	121.71	.01	-2.13	25.18	48.86	22.95	-28.29	-17.32					6.00	5.19			
34	90	124	156.93	1.23	158.16	.35	-1.87	26.48	51.52	23.84	-29.11	-19.80	.13				6.08	5.23			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
34	92	126	174.54	1.04	175.58	.42	-1.28	27.05	52.74	24.40	-29.72	-21.94	.17				6.12	5.25			
34	94	128	192.55	.70	193.25	.26	-1.53	27.56	53.77	25.09	-30.40	-22.92	.18				6.16	5.27			
34	96	130	210.95	.37	211.32	.04	-1.92	28.03	54.74	25.80	-31.06	-23.55	.19				6.20	5.29			

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35	28	63	-6.65	-1.41	-8.06	19.83	37.81	-2.83	-2.08	-20.21	15.78	-5.12		42.32	.60	1	4.44	4.66			
35	29	64	-14.35	-.28	-14.63	14.65	34.47	-1.91	-.90	-14.18	17.42	-2.95		43.67	.62	1	4.49	4.67			
35	30	65	-23.82	.70	-23.12	16.56	31.21	-1.64	.26	-15.83	13.70	-.82		44.94	.62	1	4.53	4.68			
35	31	66	-30.32	1.53	-28.79	13.74	30.30	-.74	1.43	-12.16	15.36	-1.10		46.14	.62	1	4.56	4.69			
35	32	67	-38.59	2.06	-36.53	15.82	29.55	-.34	2.72	-13.96	11.80	-1.51	.11	47.25	.64	1	4.60	4.70			
35	33	68	-43.97	2.28	-41.69	13.24	29.05	.65	4.62	-10.40	13.41	-2.17	.14	48.29	.64	1	4.64	4.71			
35	34	69	-51.13	2.37	-48.76	15.14	28.38	.95	6.31	-12.00	8.89	-2.80	.15	49.26	.64	1	4.67	4.73			
35	35	70	-55.04	2.41	-52.63	11.94	27.09	2.26	7.93	-7.96	10.04	-3.41	.16	50.16	.64	1	4.71	4.74			
35	36	71	-60.76	2.43	-58.33	13.78	25.72	2.95	9.45	-9.11	6.05	-3.73	.17	50.99	.66	1	4.75	4.75			
35	37	72	-63.30	2.44	-60.86	10.61	24.38	3.77	10.53	-4.73	7.65	-4.01	.17	51.77	.66	1	4.78	4.76			
35	38	73	-67.68	2.45	-65.23	12.45	23.05	4.01	11.55	-6.32	4.18	-4.20	.17	52.48	.66	1	4.81	4.76	-63.51	4.17	1.72
35	39	74	-69.36	2.45	-66.91	9.76	22.19	4.80	12.56	-2.87	5.81	-4.42	.16	53.13	.66	1	4.85	4.77	-65.21	4.15	1.70
35	40	75	-72.88	2.44	-70.44	11.60	21.35	5.01	13.51	-4.49	2.44	-4.60	.16	53.73	.66	1	4.88	4.78	-69.16	3.72	1.28
35	41	76	-73.76	2.41	-71.35	8.98	20.58	5.76	14.45	-1.13	4.14	-4.84	.15	54.28	.66	1	4.91	4.79	-70.15	3.61	1.20
35	42	77	-76.48	2.33	-74.15	10.87	19.85	5.95	15.30	-2.80	.96	-5.07	.13	54.77	.68	1	4.94	4.80	-73.24	3.24	.91
35	43	78	-76.61	2.16	-74.45	8.37	19.24	6.63	16.06	.40	2.91	-5.39	.11	55.21	.68	1	4.97	4.81	-73.45	3.16	1.00
35	44	79	-78.58	1.81	-76.77	10.40	18.76	6.71	16.78	-1.45	-.07	-5.77	.06	55.61	.68	1	5.00	4.82	-76.07	2.51	.70
35	45	80	-78.00	1.16	-76.84	8.14	18.54	7.43	17.72	1.44	1.65	-6.29		55.96	.68	1	5.03	4.83	-75.89	2.11	.95
35	46	81	-79.26	.42	-78.84	10.07	18.21	7.63	18.64	-.34	-1.48	-6.70		56.26	.68	1	5.06	4.84	-77.97	1.29	.87
35	47	82	-78.03	-.40	-78.43	7.65	17.73	8.36	19.57	2.77	.22	-7.16		56.52	.68	1	5.09	4.85	-77.50	.53	.93
35	48	83	-78.63	-1.29	-79.92	9.57	17.22	8.56	20.46	1.07	-2.86	-7.56		56.75	.68	1	5.12	4.86	-79.02	-.39	.90
35	49	84	-76.77	-2.26	-79.03	7.18	16.75	9.26	21.36	4.13	-1.15	-8.02					5.15	4.87	-77.73	-.96	1.30
35	50	85	-76.75	-3.30	-80.05	9.09	16.27	9.46	22.22	2.42	-6.48	-8.43					5.18	4.88	-78.67	-1.92	1.38
35	51	86	-74.30	-2.13	-76.43	4.45	13.54	10.15	23.13	7.71	-4.75	-6.61					5.20	4.89	-75.96	-1.66	.47
35	52	87	-73.70	-1.06	-74.76	6.40	10.86	10.36	24.01	5.98	-7.72	-4.78					5.23	4.90	-74.20	-.50	.56
35	53	88	-70.70	-.08	-70.78	4.10	10.49	11.04	24.88	8.94	-5.98	-5.33					5.26	4.91			
35	54	89	-69.54	.79	-68.75	6.04	10.14	11.24	25.74	7.20	-8.91	-5.85					5.28	4.92			
35	55	90	-66.02	1.57	-64.45	3.77	9.81	11.89	26.59	10.11	-7.06	-6.40	.02				5.31	4.93			
35	56	91	-64.34	2.01	-62.33	5.95	9.73	12.23	27.66	8.16	-9.81	-7.16	.11				5.34	4.94			
35	57	92	-60.33	2.16	-58.17	3.91	9.86	12.94	28.69	10.91	-8.07	-8.15	.14				5.36	4.95			
35	58	93	-58.15	2.18	-55.97	5.86	9.78	13.16	29.59	9.18	-10.95	-9.15	.15				5.39	4.96			
35	59	94	-53.68	2.15	-51.53	3.63	9.50	13.80	30.44	12.03	-9.29	-9.90	.16				5.41	4.96			
35	60	95	-51.04	2.10	-48.94	5.48	9.11	13.99	31.24	10.37	-12.15	-10.41	.17				5.44	4.97			
35	61	96	-46.13	2.03	-44.10	3.23	8.71	14.59	32.04	13.21	-10.51	-10.86	.17				5.46	4.98			
35	62	97	-43.04	1.97	-41.07	5.04	8.27	14.77	32.79	11.57	-13.34	-11.22	.18				5.49	4.99			
35	63	98	-37.71	1.92	-35.79	2.80	7.84	15.35	33.53	14.39	-11.69	-11.57	.18				5.51	5.00			
35	64	99	-34.20	1.88	-32.32	4.60	7.40	15.51	34.25	12.76	-14.48	-11.88	.18				5.54	5.01			
35	65	100	-28.49	1.84	-26.65	2.39	7.00	16.09	35.00	15.52	-12.85	-12.24	.18				5.56	5.02			
35	66	101	-24.57	1.83	-22.74	4.17	6.56	16.24	35.68	13.90	-15.58	-12.52	.18				5.58	5.03			
35	67	102	-18.48	1.82	-16.66	1.98	6.16	16.79	36.38	16.63	-13.94	-12.85	.17				5.61	5.04			
35	68	103	-14.19	1.82	-12.37	3.78	5.76	16.94	37.06	14.99	-16.64	-13.15	.17				5.63	5.05			
35	69	104	-7.75	1.83	-5.92	1.62	5.40	17.48	37.74	17.68	-14.99	-13.49	.17				5.65	5.06			
35	70	105	-3.09	1.84	-1.25	3.41	5.02	17.61	38.37	16.04	-17.62	-13.79	.16				5.67	5.07			
35	71	106	3.69	1.83	5.52	1.29	4.70	18.13	39.01	18.66	-15.93	-14.14	.15				5.70	5.08			
35	72	107	8.68	1.80	10.48	3.11	4.40	18.26	39.60	16.98	-18.45	-14.48	.14				5.72	5.09			
35	73	108	15.79	1.70	17.49	1.06	4.17	18.73	40.13	19.52	-16.56	-14.89	.12				5.74	5.10			
35	74	109	21.11	1.46	22.57	2.99	4.06	18.77	40.50	17.71	-18.75	-15.36	.08				5.76	5.11			
35	75	110	28.52	.89	29.41	1.24	4.23	19.20	41.04	19.92	-16.96	-16.06					5.78	5.12			
35	76	111	34.16	.17	34.33	3.15	4.39	19.33	41.66	18.06	-19.47	-16.58					5.81	5.13			
35	77	112	41.86	-.59	41.27	1.14	4.28	19.82	42.27	20.56	-17.77	-17.03					5.83	5.14			
35	78	113	47.79	-1.41	46.38	2.96	4.10	19.95	42.87	18.86	-20.25	-17.45					5.85	5.15			
35	79	114	55.77	-2.28	53.49	.96	3.92	20.43	43.46	21.33	-18.56	-17.89					5.87	5.16			
35	80	115	61.99	-3.20	58.79	2.77	3.74	20.55	44.04	19.64	-21.00	-18.30					5.89	5.17			
35	81	116	70.23	-4.17	66.06	.80	3.58	21.02	44.63	22.07	-19.32	-18.74					5.91	5.17			
35	82	117	76.73	-5.19	71.54	2.59	3.39	21.12	45.18	20.40	-23.95	-19.14					5.93	5.18			
35	84	119	91.97	-2.96	89.01	.25	-1.33	21.72	46.35	23.32	-24.64	-15.56					5.97	5.20			
35	86	121	107.71	-1.02	106.69	.13	-1.54	22.30	47.48	24.00	-25.30	-16.51					6.01	5.22			
35	88	123	123.92	.66	124.58	.03	-1.74	22.86	48.58	24.66	-25.86	-17.44					6.05	5.24			
35	90	125	140.58	1.28	141.86	.53	-1.13	23.59	50.07	24.79	-26.07	-19.15	.14				6.09	5.26			
35	92	127	157.67	1.05	158.72	.53	-.71	24.14	51.20	25.34	-26.72	-21.06	.17				6.13	5.28			
35	94	129	175.18	.71	175.89	.34	-1.02	24.65	52.21	26.04	-27.40	-21.88	.18				6.17	5.30			
35	96	131	193.08	.38	193.46	.13	-1.43	25.15	53.18	26.75	-28.10	-22.48	.19	38.97	.68	1	6.21	5.32			

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36	24	60	45.21	1.84	47.05	22.64	42.82	-2.31	-7.34	-27.93	20.54	-5.28	.14	34.37	.54	1	4.29	4.65			
36	25	61	34.55	1.52	36.07	19.05	41.69	-2.27	-6.50	-24.17	22.47	-5.19	.06	36.16	.56	1	4.33	4.67			
36	26	62	21.54	.76	22.30	21.85	40.89	-1.40	-5.40	-26.16	18.60	-5.26		37.85	.56	1	4.37	4.68			
36	27	63	12.28	-.13	12.15	18.22	40.06	-1.16	-4.24	-22.36	20.20	-5.27		39.44	.58	1	4.42	4.69			
36	28	64	.68	-1.13	-.45	20.67	38.89	-.32	-3.15	-23.93	14.19	-5.20		40.96	.58	1	4.46	4.70			
36	29	65	-7.28	-.02	-7.30	14.92	35.60	-.05	-1.96	-17.95	15.82	-3.06		42.37	.60	1	4.50	4.71			
36	30	66	-17.58	.95	-16.63	17.41	32.32	.80	-.85	-19.55	12.15	-.88		43.70	.60	1	4.54	4.72			
36	31	67	-24.33	1.75	-22.58	14.02	31.43	1.08	.34	-15.90	13.94	-1.17	.07	44.95	.62	1	4.58	4.73			
36	32	68	-33.42	2.13	-31.29	16.79	30.80	2.05	1.72	-17.76	10.40	-1.66	.13	46.13	.62	1	4.61	4.74			
36	33	69	-39.05	2.29	-36.76	13.55	30.33	2.37	3.01	-14.20	12.00	-2.37	.15	47.23	.62	1	4.65	4.75			
36	34	70	-47.02	2.35	-44.67	15.98	29.52	3.20	4.15	-15.77	7.95	-2.94	.16	48.26	.62	1	4.69	4.76			
36	35	71	-51.60	2.38	-49.22	12.63	28.60	3.89	6.15	-12.15	9.10	-3.31	.17	49.22	.64	1	4.72	4.77			
36	36	72	-58.52	2.39	-56.13	14.98	27.61	5.10	8.04	-13.68	4.73	-3.46	.17	50.12	.64	1	4.76	4.78			
36	37	73	-61.30	2.40	-58.90	10.84	25.82	5.33	9.10	-9.30	6.33	-3.67	.17	50.95	.64	1	4.79	4.79			
36	38	74	-66.45	2.41	-64.04	13.21	24.05	6.10	10.11	-10.45	2.87	-3.80	.17	51.72	.64	1	4.83	4.80	-62.11	4.34	1.93
36	39	75	-68.37	2.41	-65.96	9.98	23.20	6.33	11.13	-6.60	4.48	-4.01	.17	52.43	.66	1	4.86	4.81	-64.05	4.32	1.91
36	40	76	-72.64	2.42	-70.22	12.34	22.32	7.07	12.08	-8.17	1.13	-4.13	.16	53.08	.66	1	4.89	4.82	-69.15	3.49	1.07
36	41	77	-73.75	2.40	-71.35	9.20	21.54	7.28	13.05	-4.81	2.80	-4.37	.15	53.68	.66	1	4.92	4.83	-70.24	3.51	1.11

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
36	42	78	-77.20	2.35	-74.85	11.57	20.77	7.98	13.93	-6.44	-.41	-4.56	.14	54.23	.66	1	4.95	4.84	-74.15	3.05	.70
36	43	79	-77.55	2.23	-75.32	8.54	20.12	8.16	14.79	-3.20	1.45	-4.86	.12	54.73	.66	1	4.98	4.85	-74.44	3.11	.88
36	44	80	-80.24	1.96	-78.28	11.03	19.58	8.80	15.50	-4.96	-1.44	-5.21	.08	55.17	.66	1	5.02	4.86	-77.90	2.34	.38
36	45	81	-79.88	1.38	-78.50	8.30	19.32	8.95	16.38	-2.04	.34	-5.82		55.57	.66	1	5.05	4.87	-77.68	2.20	.82
36	46	82	-81.84	.64	-81.20	10.77	19.06	9.64	17.28	-3.85	-2.78	-6.27		55.94	.68	1	5.07	4.88	-80.59	1.25	.61
36	47	83	-80.82	-.17	-80.99	7.86	18.63	9.86	18.21	-.73	-1.07	-6.71		56.25	.68	1	5.10	4.89	-79.99	.83	1.00
36	48	84	-82.10	-1.06	-83.16	10.24	18.10	10.53	19.09	-2.41	-4.13	-7.09		56.52	.68	1	5.13	4.90	-82.43	-.33	.73
36	49	85	-80.45	-2.02	-82.47	7.39	17.63	10.73	19.99	.65	-2.42	-7.54		56.75	.68	1	5.16	4.91	-81.47	-1.02	1.00
36	50	86	-81.09	-3.06	-84.15	9.75	17.13	11.39	20.85	-1.03	-7.72	-7.93		56.94	.68	1	5.19	4.92	-83.26	-2.17	.89
36	51	87	-78.84	-1.89	-80.73	4.66	14.41	11.59	21.74	4.26	-5.98	-6.10		57.09	.68	1	5.22	4.93	-80.70	-1.86	.03
36	52	88	-78.88	-.83	-79.71	7.05	11.71	12.25	22.61	2.56	-8.93	-4.25		57.21	.68	1	5.24	4.94	-79.70	-.82	.01
36	53	89	-76.08	.13	-75.95	4.31	11.36	12.46	23.49	5.51	-7.20	-4.81		57.29	.68	1	5.27	4.94	-76.56	-.48	-.61
36	54	90	-75.55	1.00	-74.55	6.67	10.98	13.09	24.33	3.81	-10.10	-5.30		57.34	.68	1	5.30	4.95	-74.89	.66	-.34
36	55	91	-72.23	1.74	-70.49	4.00	10.68	13.33	25.22	6.67	-8.16	-5.88	.07	57.35	.68	1	5.32	4.96	-71.50	.73	-1.01
36	56	92	-71.16	2.08	-69.08	6.67	10.67	14.04	26.27	4.69	-10.90	-6.71	.12				5.35	4.97			
36	57	93	-67.33	2.19	-65.14	4.14	10.80	14.26	27.20	7.46	-9.17	-7.72	.14				5.37	4.98			
36	58	94	-65.76	2.19	-63.57	6.49	10.63	14.88	28.05	5.74	-12.04	-8.61	.16				5.40	4.99			
36	59	95	-61.46	2.15	-59.31	3.82	10.30	15.06	28.87	8.61	-10.37	-9.21	.16				5.43	5.00			
36	60	96	-59.40	2.09	-57.31	6.07	9.89	15.66	29.64	6.97	-13.21	-9.63	.17				5.45	5.01			
36	61	97	-54.67	2.03	-52.64	3.40	9.47	15.84	30.43	9.82	-11.57	-10.04	.17				5.47	5.02			
36	62	98	-52.15	1.96	-50.19	5.62	9.02	16.41	31.18	8.19	-14.39	-10.37	.18				5.50	5.03			
36	63	99	-46.99	1.91	-45.08	2.97	8.58	16.57	31.93	11.02	-12.75	-10.71	.18				5.52	5.04			
36	64	100	-44.04	1.87	-42.17	5.16	8.13	17.13	32.65	9.40	-15.53	-11.00	.18				5.55	5.05			
36	65	101	-38.48	1.84	-36.64	2.54	7.70	17.29	33.37	12.19	-13.89	-11.33	.18				5.57	5.06			
36	66	102	-35.11	1.82	-33.29	4.72	7.26	17.83	34.07	10.58	-16.62	-11.61	.18				5.59	5.07			
36	67	103	-29.18	1.82	-27.36	2.14	6.86	17.99	34.78	13.32	-14.99	-11.94	.18				5.62	5.08			
36	68	104	-25.42	1.82	-23.60	4.31	6.45	18.51	35.46	11.70	-17.68	-12.23	.17				5.64	5.08			
36	69	105	-19.12	1.83	-17.29	1.76	6.07	18.66	36.14	14.40	-16.03	-12.56	.17				5.66	5.09			
36	70	106	-14.99	1.85	-13.14	3.93	5.69	19.17	36.79	12.78	-18.66	-12.84	.16				5.69	5.10			
36	71	107	-8.35	1.85	-6.50	1.43	5.35	19.31	37.45	15.42	-16.98	-13.20	.15				5.71	5.11			
36	72	108	-3.86	1.83	-2.03	3.60	5.03	19.80	38.06	13.78	-19.52	-13.52	.14				5.73	5.12			
36	73	109	3.10	1.76	4.86	1.18	4.78	19.92	38.65	16.34	-17.71	-13.93	.13				5.75	5.13			
36	74	110	7.93	1.56	9.49	3.44	4.62	20.37	39.14	14.59	-19.92	-14.38	.10				5.77	5.14			
36	75	111	15.20	1.06	16.26	1.30	4.74	20.43	39.64	16.85	-18.07	-15.10					5.80	5.15			
36	76	112	20.35	.36	20.71	3.63	4.92	20.92	40.24	14.98	-20.56	-15.77					5.82	5.16			
36	77	113	27.92	-.41	27.51	1.27	4.90	21.04	40.87	17.47	-18.87	-16.24					5.84	5.17			
36	78	114	33.38	-1.22	32.16	3.43	4.69	21.51	41.46	15.81	-21.33	-16.64					5.86	5.18			
36	79	115	41.24	-2.09	39.15	1.08	4.51	21.63	42.06	18.28	-19.64	-17.08					5.88	5.19			
36	80	116	46.99	-3.00	43.99	3.23	4.32	22.09	42.64	16.61	-22.07	-17.48					5.90	5.20			
36	81	117	55.11	-3.97	51.14	.92	4.15	22.21	43.23	19.04	-20.40	-17.92					5.92	5.21			
36	82	118	61.15	-4.98	56.17	3.05	3.96	22.66	43.79	17.39	-25.01	-18.30					5.94	5.22			
36	84	120	75.84	-2.77	73.07	.69	-.76	23.23	44.95	20.33	-25.69	-14.73					5.98	5.24			
36	86	122	91.03	-.84	90.19	.57	-.98	23.79	46.09	21.03	-26.35	-15.68					6.02	5.26			
36	88	124	106.71	.83	107.54	.45	-1.20	24.33	47.19	21.73	-26.78	-16.59					6.06	5.27			
36	90	126	122.85	1.32	124.17	.97	-.49	24.98	48.57	21.80	-27.01	-18.40	.14				6.10	5.29			
36	92	128	139.43	1.08	140.51	.94	-.20	25.50	49.65	22.37	-27.65	-20.07	.17	42.87	.68	1	6.14	5.31			
36	94	130	156.44	.74	157.18	.74	-.53	26.00	50.65	23.08	-28.34	-20.82	.18	41.56	.68	1	6.18	5.33			
36	96	132	173.85	.41	174.26	.52	-.94	26.48	51.64	23.80	-29.04	-21.42	.19	40.22	.68	1	6.22	5.35			
36	98	134	191.66	.14	191.80	.29	-1.39	26.95	52.58	24.53	-29.71	-21.94	.19	38.85	.68	1	6.26	5.37			
36	100	136	209.85	-.07	209.78	.06	-1.84	27.41	53.50	25.24	-30.37	-22.45	.19	37.45	.68	1	6.29	5.39			

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37	29	66	2.79	.13	2.92	15.80	36.70	-2.92	-2.98	-16.33	19.55	-3.20		40.97	.58	1	4.51	4.75			
37	30	67	-7.76	1.08	-6.68	17.66	33.47	-2.67	-1.86	-17.95	15.89	-1.05		42.37	.58	1	4.55	4.76			
37	31	68	-15.36	1.83	-13.53	14.93	32.59	-1.75	-.67	-14.38	17.76	-1.32	.09	43.67	.60	1	4.59	4.77			
37	32	69	-24.70	2.14	-22.56	17.10	32.03	-1.44	.62	-16.29	14.20	-1.87	.14	44.91	.60	1	4.63	4.78			
37	33	70	-31.16	2.26	-28.90	14.41	31.51	-.57	1.79	-12.77	15.77	-2.54	.16	46.08	.60	1	4.66	4.79			
37	34	71	-39.37	2.31	-37.06	16.23	30.64	-.31	2.88	-14.34	12.16	-2.96	.17	47.16	.62	1	4.70	4.80			
37	35	72	-44.77	2.32	-42.45	13.45	29.69	.51	4.40	-10.78	13.68	-3.19	.17	48.18	.62	1	4.74	4.81			
37	36	73	-51.93	2.34	-49.59	15.22	28.67	.75	5.84	-12.30	9.32	-3.26	.18	49.14	.62	1	4.77	4.82			
37	37	74	-55.93	2.35	-53.58	12.06	27.28	1.97	7.30	-8.37	10.46	-3.38	.17	50.03	.62	1	4.80	4.83			
37	38	75	-61.72	2.36	-59.36	13.85	25.91	2.61	8.71	-9.52	6.59	-3.46	.17	50.85	.64	1	4.84	4.84			
37	39	76	-64.42	2.37	-62.05	10.76	24.61	3.38	9.72	-5.30	8.17	-3.62	.17	51.62	.64	1	4.87	4.85			
37	40	77	-68.92	2.38	-66.54	12.56	23.32	3.60	10.68	-6.87	4.81	-3.74	.17	52.33	.64	1	4.90	4.86			
37	41	78	-70.79	2.38	-68.41	9.94	22.51	4.35	11.63	-3.52	6.44	-3.92	.16	52.98	.64	1	4.93	4.87			
37	42	79	-74.47	2.35	-72.12	11.78	21.73	4.57	12.55	-5.14	3.20	-4.10	.15	53.58	.64	1	4.97	4.88	-70.92	3.55	1.20
37	43	80	-75.57	2.25	-73.32	9.27	21.05	5.29	13.45	-1.91	4.96	-4.39	.13	54.14	.66	1	5.00	4.89	-72.10	3.47	1.22
37	44	81	-78.47	2.02	-76.45	11.20	20.47	5.46	14.26	-3.63	2.05	-4.73	.09	54.63	.66	1	5.03	4.90	-75.42	3.05	1.03
37	45	82	-78.84	1.49	-77.35	8.97	20.17	6.14	15.09	-.71	3.85	-5.33		55.09	.66	1	5.06	4.91	-76.19	2.65	1.16
37	46	83	-81.02	.76	-80.26	10.98	19.95	6.35	15.99	-2.53	.73	-5.91		55.49	.66	1	5.09	4.92	-78.95	2.07	1.31
37	47	84	-80.70	-.05	-80.75	8.56	19.54	7.05	16.90	.57	2.41	-6.33		55.85	.66	1	5.12	4.93	-79.75	.95	1.00
37	48	85	-82.19	-.93	-83.12	10.44	19.01	7.25	17.78	-1.10	-.65	-6.70		56.17	.66	1	5.14	4.93	-82.16	.03	.96
37	49	86	-81.23	-1.89	-83.12	8.06	18.51	7.94	18.67	1.93	1.02	-7.12		56.45	.66	1	5.17	4.94	-82.74	-1.51	.38
37	50	87	-82.08	-2.91	-84.99	9.95	18.01	8.14	19.52	.26	-4.25	-7.49		56.68	.66	1	5.20	4.95	-84.59	-2.51	.40
37	51	88	-80.51	-1.76	-82.27	5.35	15.30	8.82	20.42	5.50	-2.55	-5.67		56.88	.66	1	5.23	4.96	-82.60	-2.09	-.33
37	52	89	-80.75	-.71	-81.46	7.26	12.61	9.03	21.29	3.80	-5.51	-3.84		57.06	.68	1	5.26	4.97	-81.71	-.96	-.25
37	53	90	-78.61	.25	-78.36	4.98	12.23	9.70	22.15	6.73	-3.80	-4.36		57.18	.68	1	5.28	4.98	-79.30	-.69	-.94
37	54	91	-78.27	1.11	-77.16	6.88	11.85	9.90	22.99	5.04	-6.67	-4.83		57.27	.68	1	5.31	4.99	-78.00	.27	-.84
37	55	92	-75.59	1.81	-73.78	4.68	11.56	10.58	23.91	7.85	-4.70	-5.42	.08	57.33	.68	1	5.33	5.00	-75.02	.57	-1.24
37	56	93	-74.70	2.11	-72.59	6.89	11.57	10.80	24.84	5.85	-7.44	-6.27	.12	57.36	.68	1	5.36	5.01	-73.05	1.65	-.46
37	57	94	-71.51	2.20	-69.31	4.79	11.68	11.45	25.71	8.57	-5.75	-7.28	.14	57.35	.68	1	5.39	5.02			
37	58	95	-70.11	2.20	-67.91	6.68	11.46	11.64	26.52	6.87	-8.60	-8.00	.16	57.32	.68	1	5.41	5.03			
37	59	96	-66.43	2.15	-64.28	4.43	11.11	12.26	27.33	9.70	-6.97	-8.53	.16	57.26	.68	1	5.44	5.04			
37	60	97	-64.55	2.09	-62.46	6.25	10.69	12.44	28.10	8.06	-9.82	-8.91	.17	57.17	.68	1	5.46	5.05			
37	61	98	-60.41	2.02	-58.39	4.00	10.25	13.03	28.87	10.89	-8.21	-9.28	.17	57.05	.68	1	5.49	5.05			
37	62	99	-58.06	1.96	-56.10	5.79	9.79	13.20	29.61	9.27	-11.02	-9.58	.18	56.90	.68	1	5.51	5.06			
37	63	100	-53.48	1.91	-51.57	3.54	9.33	13.78	30.35	12.08	-9.40	-9.90	.18	56.73	.68	1	5.53	5.07			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
37	64	101	-50.70	1.87	-48.83	5.33	8.88	13.95	31.08	10.47	-12.19	-10.19	.18	56.54	.68	1	5.56	5.08			
37	65	102	-45.71	1.84	-43.87	3.11	8.44	14.51	31.81	13.23	-10.58	-10.50	.18	56.32	.68	1	5.58	5.09			
37	66	103	-42.50	1.83	-40.67	4.88	7.99	14.67	32.50	11.63	-13.31	-10.77	.18	56.09	.68	1	5.61	5.10			
37	67	104	-37.12	1.83	-35.29	2.69	7.57	15.22	33.20	14.36	-11.69	-11.07	.18	55.82	.68	1	5.63	5.11			
37	68	105	-33.52	1.83	-31.69	4.46	7.16	15.38	33.90	12.74	-14.40	-11.37	.17				5.65	5.12			
37	69	106	-27.77	1.85	-25.92	2.31	6.77	15.92	34.58	15.43	-12.78	-11.68	.17				5.67	5.13			
37	70	107	-23.78	1.86	-21.92	4.07	6.38	16.06	35.24	13.82	-15.42	-11.97	.16				5.70	5.14			
37	71	108	-17.68	1.87	-15.81	1.96	6.03	16.60	35.91	16.45	-13.78	-12.32	.16				5.72	5.15			
37	72	109	-13.33	1.86	-11.47	3.74	5.69	16.73	36.53	14.82	-16.33	-12.64	.15				5.74	5.16			
37	73	110	-6.89	1.79	-5.10	1.69	5.44	17.25	37.17	17.37	-14.59	-13.05	.13				5.76	5.17			
37	74	111	-2.20	1.61	-.59	3.56	5.26	17.36	37.74	15.65	-16.86	-13.50	.10				5.79	5.18			
37	75	112	4.57	1.16	5.73	1.76	5.32	17.83	38.26	17.95	-14.98	-14.19					5.81	5.18			
37	76	113	9.58	.45	10.03	3.76	5.53	17.96	38.88	16.08	-17.49	-14.97					5.83	5.19			
37	77	114	16.66	-.30	16.36	1.75	5.51	18.45	39.49	18.58	-15.80	-15.47					5.85	5.20			
37	78	115	21.99	-1.11	20.88	3.55	5.30	18.58	40.08	16.91	-18.27	-15.88					5.87	5.21			
37	79	116	29.35	-1.98	27.37	1.57	5.13	19.06	40.70	19.35	-16.62	-16.32					5.89	5.22			
37	80	117	34.98	-2.89	32.09	3.36	4.93	19.18	41.28	17.69	-19.05	-16.72		50.74	.68	1	5.91	5.23			
37	81	118	42.63	-3.85	38.78	1.39	4.74	19.65	41.86	20.12	-17.39	-17.14		50.24	.68	1	5.93	5.24			
37	82	119	48.55	-4.86	43.69	3.16	4.55	19.77	42.43	18.47	-22.00	-17.53		49.73	.68	1	5.95	5.25			
37	84	121	62.65	-2.66	59.99	.82	-.16	20.37	43.60	21.39	-22.70	-13.97		48.66	.68	1	5.99	5.27			
37	86	123	77.28	-.74	76.54	.69	-.40	20.94	44.73	22.10	-23.38	-14.90		47.55	.68	1	6.03	5.29			
37	88	125	92.40	.92	93.32	.57	-.64	21.51	45.84	22.78	-23.75	-15.80		46.40	.68	1	6.07	5.31			
37	90	127	108.00	1.36	109.36	1.09	.10	22.10	47.08	22.79	-24.02	-17.65	.14	45.20	.68	1	6.11	5.33			
37	92	129	124.05	1.12	125.17	1.04	.33	22.63	48.13	23.34	-24.68	-19.12	.17	43.96	.68	1	6.15	5.34			
37	94	131	140.54	.78	141.32	.84	-.01	23.14	49.15	24.03	-25.39	-19.83	.18	42.69	.68	1	6.19	5.36			
37	96	133	157.45	.46	157.91	.62	-.44	23.64	50.13	24.75	-26.11	-20.40	.19	41.38	.68	1	6.23	5.38			
37	98	135	174.77	.19	174.96	.38	-.90	24.12	51.08	25.47	-26.80	-20.92	.19	40.05	.68	1	6.27	5.40			
37	100	137	192.48	-.01	192.47	.14	-1.36	24.60	52.00	26.18	-27.48	-21.41	.19	38.63	.66	1	6.30	5.42			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
38	26	64	43.23	.92	44.15	22.83	42.87	-2.35	-7.27	-28.08	20.67	-5.33		34.59	.52	1	4.40	4.75			
38	27	65	32.85	.05	32.90	19.33	42.15	-2.13	-6.17	-24.35	22.25	-5.59		36.30	.54	1	4.44	4.76			
38	28	66	20.18	-.93	19.25	21.72	41.05	-1.32	-5.12	-25.89	16.33	-5.47		37.94	.54	1	4.48	4.77			
38	29	67	11.11	.16	11.27	16.05	37.78	-1.06	-3.99	-20.00	17.95	-3.31		39.47	.56	1	4.52	4.79			
38	30	68	-.25	1.10	.85	18.49	34.54	-.24	-2.90	-21.59	14.38	-1.12		40.93	.56	1	4.56	4.80			
38	31	69	-8.09	1.82	-6.27	15.20	33.68	.03	-1.72	-18.05	16.29	-1.40	.10	42.30	.58	1	4.60	4.81			
38	32	70	-18.23	2.10	-16.13	17.93	33.13	.86	-.58	-19.96	12.77	-1.92	.14	43.60	.58	1	4.64	4.82			
38	33	71	-24.93	2.21	-22.72	14.66	32.59	1.11	.54	-16.47	14.35	-2.57	.16	44.82	.60	1	4.68	4.83			
38	34	72	-33.93	2.25	-31.68	17.03	31.69	1.90	1.59	-18.03	10.77	-2.82	.17	45.97	.60	1	4.71	4.84			
38	35	73	-39.56	2.27	-37.29	13.69	30.71	2.13	2.65	-14.46	12.31	-2.95	.17	47.05	.60	1	4.75	4.85			
38	36	74	-47.49	2.28	-45.21	15.99	29.68	2.90	3.66	-15.97	8.38	-2.97	.17	48.05	.62	1	4.78	4.86			
38	37	75	-52.13	2.29	-49.84	12.70	28.69	3.54	5.51	-12.45	9.52	-3.04	.18	49.00	.62	1	4.82	4.87			
38	38	76	-59.06	2.31	-56.75	14.98	27.68	4.68	7.29	-13.96	5.30	-3.04	.18	49.88	.62	1	4.85	4.88			
38	39	77	-62.00	2.33	-59.67	10.99	25.97	4.91	8.29	-9.74	6.87	-3.19	.17	50.71	.62	1	4.88	4.89			
38	40	78	-67.23	2.34	-64.89	13.29	24.28	5.64	9.25	-10.89	3.52	-3.27	.17	51.47	.62	1	4.92	4.90			
38	41	79	-69.33	2.35	-66.98	10.17	23.46	5.86	10.21	-7.15	5.14	-3.45	.16	52.18	.64	1	4.95	4.91			
38	42	80	-73.73	2.32	-71.41	12.50	22.67	6.57	11.14	-8.73	1.91	-3.61	.15	52.83	.64	1	4.98	4.91			
38	43	81	-75.05	2.23	-72.82	9.48	21.98	6.79	12.08	-5.50	3.64	-3.90	.13	53.43	.64	1	5.01	4.92	-71.62	3.43	1.20
38	44	82	-78.65	2.01	-76.64	11.89	21.38	7.47	12.94	-7.18	.71	-4.22	.10	53.99	.64	1	5.04	4.93	-75.59	3.06	1.05
38	45	83	-79.24	1.51	-77.73	9.17	21.06	7.67	13.81	-4.21	2.53	-4.83		54.49	.64	1	5.07	4.94	-76.70	2.54	1.03
38	46	84	-82.10	.78	-81.32	11.66	20.82	8.35	14.70	-5.97	-.57	-5.47		54.94	.64	1	5.10	4.95	-80.64	1.46	.68
38	47	85	-82.00	-.02	-82.02	8.77	20.43	8.56	15.61	-2.88	1.10	-5.94		55.36	.66	1	5.13	4.96	-81.10	.90	.92
38	48	86	-84.16	-.89	-85.05	11.11	19.87	9.22	16.47	-4.52	-1.93	-6.28		55.73	.66	1	5.16	4.97	-84.51	-.35	.54
38	49	87	-83.40	-1.84	-85.24	8.26	19.37	9.41	17.35	-1.47	-.25	-6.68		56.05	.66	1	5.18	4.98	-84.87	-1.47	.37
38	50	88	-84.90	-2.86	-87.76	10.59	18.85	10.06	18.19	-3.12	-5.49	-7.03		56.33	.66	1	5.21	4.99	-87.91	-3.01	-.15
38	51	89	-83.54	-1.72	-85.26	5.56	16.16	10.28	19.10	2.09	-3.80	-5.22		56.58	.66	1	5.24	5.00	-86.20	-2.66	-.94
38	52	90	-84.41	-.68	-85.09	7.90	13.47	10.92	19.95	.42	-6.73	-3.37		56.79	.66	1	5.27	5.01	-85.93	-1.52	-.84
38	53	91	-82.47	.27	-82.20	5.18	13.09	11.13	20.82	3.35	-5.04	-3.89		56.96	.66	1	5.29	5.02	-83.68	-1.21	-1.48
38	54	92	-82.75	1.12	-81.63	7.50	12.68	11.75	21.65	1.69	-7.86	-4.34		57.09	.66	1	5.32	5.03	-82.92	-.17	-1.29
38	55	93	-80.26	1.82	-78.44	4.88	12.39	11.96	22.53	4.51	-5.84	-4.91	.08	57.19	.66	1	5.35	5.03	-79.95	.31	-1.51
38	56	94	-79.99	2.11	-77.88	7.51	12.39	12.57	23.38	2.49	-8.57	-5.75	.12	57.26	.66	1	5.37	5.04	-78.74	1.25	-.86
38	57	95	-76.98	2.20	-74.78	4.98	12.48	12.76	24.21	5.20	-6.86	-6.72	.14	57.30	.66	1	5.40	5.05	-75.54	1.44	-.76
38	58	96	-76.18	2.20	-73.98	7.27	12.25	13.36	24.99	3.50	-9.70	-7.33	.16	57.32	.68	1	5.42	5.06			
38	59	97	-72.68	2.15	-70.53	4.62	11.89	13.54	25.80	6.33	-8.07	-7.81	.16	57.30	.68	1	5.45	5.07			
38	60	98	-71.37	2.10	-69.27	6.83	11.43	14.11	26.54	4.73	-10.89	-8.13	.17	57.25	.68	1	5.47	5.08			
38	61	99	-67.41	2.03	-65.38	4.17	11.00	14.28	27.32	7.54	-9.28	-8.49	.17	57.17	.68	1	5.50	5.09			
38	62	100	-65.63	1.97	-63.66	6.35	10.53	14.85	28.05	5.95	-12.09	-8.77	.18	57.06	.68	1	5.52	5.10			
38	63	101	-61.22	1.92	-59.30	3.72	10.07	15.01	28.80	8.76	-10.47	-9.08	.18	56.93	.68	1	5.55	5.11			
38	64	102	-58.99	1.89	-57.10	5.88	9.59	15.57	29.51	7.18	-13.23	-9.34	.18	56.77	.68	1	5.57	5.12			
38	65	103	-54.16	1.86	-52.30	3.27	9.15	15.72	30.24	9.95	-11.62	-9.64	.18	56.59	.68	1	5.59	5.13			
38	66	104	-51.50	1.85	-49.65	5.42	8.69	16.27	30.94	8.36	-14.35	-9.91	.18	56.39	.68	1	5.62	5.13			
38	67	105	-46.28	1.84	-44.44	2.85	8.28	16.43	31.66	11.08	-12.75	-10.22	.17	56.16	.68	1	5.64	5.14			
38	68	106	-43.20	1.85	-41.35	4.98	7.84	16.95	32.33	9.51	-15.43	-10.48	.17	55.91	.68	1	5.66	5.15			
38	69	107	-37.61	1.87	-35.74	2.46	7.45	17.11	33.03	12.19	-13.82	-10.80	.17	55.64	.68	1	5.69	5.16			
38	70	108	-34.14	1.88	-32.26	4.59	7.05	17.62	33.69	10.60	-16.45	-11.09	.16	55.35	.68	1	5.71	5.17			
38	71	109	-28.18	1.89	-26.29	2.10	6.69	17.77	34.37	13.25	-14.81	-11.43	.15	55.04	.68	1	5.73	5.18			
38	72	110	-24.35	1.88	-22.47	4.25	6.36	18.29	35.02	11.63	-17.37	-11.75	.15	54.71	.68	1	5.75	5.19			
38	73	111	-18.05	1.81	-16.24	1.84	6.09	18.43	35.68	14.20	-15.65	-12.16	.13	54.36	.68	1	5.77	5.20			
38	74	112	-13.85	1.63	-12.22	4.05	5.89	18.92	36.29	12.51	-17.95	-12.61	.10	54.00	.68	1	5.80	5.21			
38	75	113	-7.23	1.18	-6.05	1.90	5.96	19.07	36.89	14.83	-16.09	-13.33		53.62	.68	1	5.82	5.22			
38	76	114	-2.69	.47	-2.22	4.24	6.14	19.54	37.51	13.04	-18.57	-14.13		53.22	.68	1	5.84	5.23			
38	77	115	4.25	-.28	3.97	1.88	6.12	19.67	38.13	15.53	-16.90	-14.72		52.80	.68	1	5.86	5.24			
38	78	116	9.10	-1.09	8.01	4.02	5.91	20.15	38.73	13.88	-19.37	-15.12		52.37	.68	1	5.88	5.25			
38	79	117	16.34	-1.94	14.40	1.69	5.71	20.27	39.33	16.35	-17.70	-15.54		51.92	.68	1	5.90	5.25			
38	80	118	21.50	-2.85	18.65	3.82	5.51	20.73	39.92	14.70	-20.13	-15.94		51.46	.68	1	5.92	5.26			
38	81	119	29.03	-3.80	25.23	1.50	5.31	20.85	40.49	17.14	-18.46	-16.34		50.99	.68	1	5.94	5.27			
38	82	120	34.49	-4.81	29.68	3.61	5.12	21.30	41.07	15.50	-23.06	-16.73		50.50	.68	1	5.96	5.28			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
38	84	122	48.03	-2.62	45.41	1.27	.41	21.88	42.23	18.44	-23.75	-13.18		49.49	.68	1	6.01	5.30			
38	86	124	62.10	-.71	61.39	1.13	.16	22.44	43.38	19.16	-24.42	-14.10		48.42	.68	1	6.05	5.32			
38	88	126	76.68	.93	77.61	1.00	-.08	22.99	44.50	19.85	-24.76	-15.01		47.31	.68	1	6.08	5.34			
38	90	128	91.75	1.39	93.14	1.50	.62	23.50	45.60	19.85	-25.00	-16.82	.14	46.15	.68	1	6.12	5.36			
38	92	130	107.29	1.17	108.46	1.44	.83	24.00	46.63	20.40	-25.64	-18.13	.17	44.96	.68	1	6.16	5.38			
38	94	132	123.28	.85	124.13	1.24	.47	24.49	47.62	21.12	-26.33	-18.80	.18	43.68	.66	1	6.20	5.39			
38	96	134	139.70	.53	140.23	1.00	.04	24.97	48.61	21.85	-27.04	-19.37	.19	42.41	.66	1	6.24	5.41			
38	98	136	156.54	.27	156.81	.76	-.43	25.44	49.57	22.59	-27.73	-19.88	.19	41.10	.66	1	6.28	5.43			
38	100	138	173.77	.07	173.84	.53	-.89	25.92	50.51	23.31	-28.42	-20.38	.19	39.77	.66	1	6.31	5.45			
38	102	140	191.39	-.06	191.33	.29	-1.35	26.37	51.43	24.02	-29.08	-20.87	.19	38.40	.66	1	6.35	5.47			
38	104	142	209.38	-.12	209.26	.07	-1.79	26.82	52.34	24.71	-29.73	-21.35	.19	37.01	.66	1	6.38	5.49			
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39	31	70	2.09	1.74	3.83	16.02	34.75	-2.82	-2.78	-16.46	19.96	-1.51	.09	40.83	.56	1	4.61	4.84			
39	32	71	-8.28	2.03	-6.25	18.15	34.17	-2.60	-1.73	-18.41	16.47	-2.00	.14	42.19	.56	1	4.65	4.85			
39	33	72	-15.79	2.15	-13.64	15.47	33.62	-1.79	-.68	-15.00	18.03	-2.53	.16	43.46	.58	1	4.69	4.86			
39	34	73	-25.02	2.19	-22.83	17.25	32.73	-1.56	.34	-16.58	14.46	-2.69	.17	44.67	.58	1	4.72	4.87			
39	35	74	-31.45	2.22	-29.23	14.48	31.73	-.77	1.36	-13.05	15.98	-2.75	.17	45.80	.60	1	4.76	4.88			
39	36	75	-39.62	2.23	-37.39	16.22	30.71	-.53	2.37	-14.58	12.45	-2.75	.17	46.87	.60	1	4.79	4.89			
39	37	76	-45.04	2.25	-42.79	13.48	29.70	.24	3.78	-11.09	13.96	-2.77	.18	47.87	.60	1	4.83	4.90			
39	38	77	-52.20	2.27	-49.93	15.21	28.69	.47	5.15	-12.60	9.74	-2.76	.18	48.82	.60	1	4.86	4.91			
39	39	78	-56.29	2.29	-54.00	12.14	27.35	1.63	6.53	-8.79	10.89	-2.84	.17	49.69	.62	1	4.90	4.92			
39	40	79	-62.14	2.30	-59.84	13.90	26.05	2.24	7.88	-9.95	7.14	-2.90	.16	50.51	.62	1	4.93	4.93			
39	41	80	-64.98	2.31	-62.67	10.91	24.81	2.98	8.84	-5.86	8.74	-3.05	.16	51.27	.62	1	4.96	4.94			
39	42	81	-69.60	2.28	-67.32	12.72	23.63	3.20	9.77	-7.44	5.50	-3.21	.14	51.98	.62	1	4.99	4.95			
39	43	82	-71.65	2.19	-69.46	10.21	22.93	3.94	10.72	-4.22	7.18	-3.47	.13	52.63	.62	1	5.02	4.96			
39	44	83	-75.48	1.96	-73.52	12.13	22.34	4.17	11.64	-5.89	4.21	-3.82	.09	53.23	.62	1	5.05	4.97	-72.20	3.28	1.32
39	45	84	-76.77	1.43	-75.34	9.89	22.02	4.90	12.57	-2.93	5.98	-4.45		53.79	.64	1	5.08	4.98	-73.69	3.08	1.65
39	46	85	-79.85	.71	-79.14	11.86	21.76	5.11	13.46	-4.64	2.88	-5.11		54.30	.64	1	5.11	4.99	-77.84	2.01	1.30
39	47	86	-80.44	-.08	-80.52	9.45	21.32	5.80	14.35	-1.55	4.53	-5.59		54.75	.64	1	5.14	5.00	-79.24	1.20	1.28
39	48	87	-82.82	-.95	-83.77	11.32	20.77	6.01	15.22	-3.21	1.48	-5.94		55.17	.64	1	5.17	5.01	-82.98	-.16	.79
39	49	88	-82.74	-1.90	-84.64	8.94	20.26	6.68	16.10	-.19	3.13	-6.32		55.54	.64	1	5.20	5.01	-84.29	-1.55	.35
39	50	89	-84.45	-2.91	-87.36	10.79	19.73	6.88	16.95	-1.85	-2.10	-6.66		55.87	.64	1	5.22	5.02	-87.69	-3.24	-.33
39	51	90	-83.74	-1.77	-85.51	6.23	17.02	7.54	17.82	3.35	-.42	-4.82		56.17	.66	1	5.25	5.03	-86.47	-2.73	-.96
39	52	91	-84.82	-.73	-85.55	8.11	14.34	7.75	18.67	1.68	-3.35	-2.98		56.43	.66	1	5.28	5.04	-86.35	-1.53	-.80
39	53	92	-83.52	.21	-83.31	5.83	13.94	8.41	19.53	4.60	-1.68	-3.46		56.64	.66	1	5.31	5.05	-84.83	-1.31	-1.52
39	54	93	-84.00	1.05	-82.95	7.70	13.54	8.61	20.36	2.92	-4.51	-3.92		56.82	.66	1	5.33	5.06	-84.25	-.25	-1.30
39	55	94	-82.14	1.77	-80.37	5.49	13.20	9.22	21.18	5.76	-2.49	-4.44	.07	56.96	.66	1	5.36	5.07	-82.26	-.12	-1.89
39	56	95	-82.06	2.08	-79.98	7.67	13.17	9.39	21.96	3.73	-5.20	-5.24	.12	57.07	.66	1	5.38	5.08	-81.24	.82	-1.26
39	57	96	-79.67	2.19	-77.48	5.58	13.25	9.99	22.75	6.37	-3.50	-6.13	.14	57.15	.66	1	5.41	5.09	-78.63	1.04	-1.15
39	58	97	-79.05	2.19	-76.86	7.44	13.03	10.17	23.52	4.65	-6.34	-6.69	.15	57.20	.66	1	5.43	5.10	-76.83	2.22	.03
39	59	98	-76.16	2.16	-74.00	5.22	12.66	10.77	24.30	7.45	-4.72	-7.11	.16	57.21	.66	1	5.46	5.11			
39	60	99	-75.03	2.11	-72.92	7.00	12.21	10.94	25.04	5.84	-7.55	-7.43	.17	57.20	.66	1	5.48	5.11			
39	61	100	-71.66	2.05	-69.61	4.76	11.76	11.53	25.81	8.64	-5.96	-7.76	.17	57.16	.66	1	5.51	5.12			
39	62	101	-70.05	1.99	-68.06	6.52	11.28	11.69	26.54	7.05	-8.76	-8.03	.17	57.09	.66	1	5.53	5.13			
39	63	102	-66.22	1.95	-64.27	4.29	10.80	12.26	27.27	9.84	-7.17	-8.31	.17	57.00	.66	1	5.56	5.14			
39	64	103	-64.16	1.91	-62.25	6.04	10.34	12.44	28.00	8.25	-9.95	-8.58	.18	56.88	.66	1	5.58	5.15			
39	65	104	-59.90	1.89	-58.01	3.84	9.88	13.00	28.72	11.01	-8.36	-8.86	.18	56.73	.66	1	5.60	5.16			
39	66	105	-57.40	1.88	-55.52	5.58	9.42	13.16	29.42	9.43	-11.09	-9.12	.17	56.56	.66	1	5.63	5.17			
39	67	106	-52.73	1.87	-50.86	3.40	8.99	13.71	30.14	12.14	-9.51	-9.42	.17	56.37	.66	1	5.65	5.18			
39	68	107	-49.81	1.88	-47.93	5.14	8.55	13.87	30.82	10.56	-12.19	-9.68	.17	56.15	.66	1	5.67	5.19			
39	69	108	-44.76	1.90	-42.86	3.00	8.15	14.41	31.52	13.24	-10.60	-9.99	.16	55.94	.68	1	5.70	5.20			
39	70	109	-41.45	1.91	-39.54	4.75	7.75	14.57	32.20	11.65	-13.25	-10.28	.16	55.68	.68	1	5.72	5.20			
39	71	110	-36.02	1.91	-34.11	2.64	7.39	15.10	32.88	14.27	-11.64	-10.62	.15	55.41	.68	1	5.74	5.21			
39	72	111	-32.33	1.89	-30.44	4.41	7.05	15.26	33.54	12.67	-14.20	-10.94	.14	55.11	.68	1	5.76	5.22			
39	73	112	-26.54	1.81	-24.73	2.36	6.77	15.78	34.21	15.23	-12.51	-11.35	.12	54.79	.68	1	5.78	5.23			
39	74	113	-22.49	1.61	-20.88	4.22	6.59	15.95	34.87	13.55	-14.83	-11.83	.09	54.46	.68	1	5.81	5.24			
39	75	114	-16.37	1.11	-15.26	2.44	6.67	16.50	35.56	15.86	-13.04	-12.59		54.10	.68	1	5.83	5.25			
39	76	115	-11.98	.42	-11.56	4.38	6.82	16.63	36.18	14.15	-15.53	-13.40		53.73	.68	1	5.85	5.26			
39	77	116	-5.54	-.33	-5.87	2.38	6.76	17.13	36.80	16.62	-13.89	-14.02		53.35	.68	1	5.87	5.27			
39	78	117	-.81	-1.13	-1.94	4.15	6.52	17.25	37.39	14.99	-16.34	-14.40		52.94	.68	1	5.89	5.28			
39	79	118	5.94	-1.98	3.96	2.17	6.32	17.73	38.00	17.44	-14.70	-14.82		52.53	.68	1	5.91	5.29			
39	80	119	10.97	-2.89	8.08	3.94	6.12	17.86	38.59	15.79	-17.14	-15.22		52.09	.68	1	5.93	5.30			
39	81	120	18.02	-3.84	14.18	1.98	5.92	18.33	39.18	18.21	-15.50	-15.62		51.64	.68	1	5.95	5.30			
39	82	121	23.36	-4.83	18.53	3.73	5.70	18.44	39.74	16.59	-20.07	-15.99		51.18	.68	1	5.97	5.31			
39	84	123	36.31	-2.66	33.65	1.40	1.02	19.05	40.92	19.50	-20.79	-12.47		50.21	.68	1	6.02	5.33			
39	86	125	49.81	-.76	49.05	1.25	.74	19.63	42.07	20.22	-21.49	-13.37		49.16	.66	1	6.06	5.35			
39	88	127	63.83	.88	64.71	1.12	.48	20.20	43.18	20.91	-21.86	-14.25		48.09	.66	1	6.09	5.37			
39	90	129	78.36	1.42	79.78	1.58	1.07	20.65	44.15	20.90	-22.05	-15.96	.14	46.97	.66	1	6.13	5.39			
39	92	131	93.36	1.23	94.59	1.54	1.33	21.16	45.16	21.39	-22.70	-17.19	.16	45.82	.66	1	6.17	5.41			
39	94	133	108.83	.92	109.75	1.33	.99	21.66	46.15	22.08	-23.41	-17.84	.18	44.62	.66	1	6.21	5.42			
39	96	135	124.74	.62	125.36	1.10	.53	22.16	47.14	22.81	-24.13	-18.39	.18	43.39	.66	1	6.25	5.44			
39	98	137	141.08	.36	141.44	.85	.06	22.65	48.10	23.53	-24.85	-18.90	.19	42.12	.66	1	6.29	5.46			
39	100	139	157.83	.17	158.00	.61	-.42	23.13	49.04	24.26	-25.55	-19.39	.19	40.82	.66	1	6.32	5.48			
39	102	141	174.97	.04	175.01	.38	-.88	23.61	49.97	24.96	-26.24	-19.88	.19	39.49	.66	1	6.36	5.50			
39	104	143	192.49	-.02	192.47	.15	-1.32	24.08	50.89	25.64	-26.92	-20.36	.19	38.13	.66	1	6.39	5.52			
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40	28	68	41.99	-1.17	40.82	22.74	43.12	-2.26	-6.99	-27.77	18.38	-5.76		34.54	.52	1	4.51	4.85			
40	29	69	31.85	-.11	31.74	17.14	39.89	-2.02	-5.89	-21.98	19.96	-3.59		36.20	.52	1	4.55	4.86			
40	30	70	19.47	.82	20.29	19.53	36.67	-1.23	-4.86	-23.53	16.46	-1.38		37.77	.54	1	4.59	4.87			
40	31	71	10.57	1.59	12.16	16.20	35.73	-1.04	-3.86	-19.98	18.41	-1.53	.07	39.27	.54	1	4.63	4.88			
40	32	72	-.58	1.94	1.36	18.88	35.08	-.31	-2.91	-21.87	15.01	-1.92	.13	40.67	.56	1	4.66	4.89			
40	33	73	-8.32	2.07	-6.25	15.68	34.56	-.11	-1.89	-18.57	16.58	-2.40	.15	42.01	.56	1	4.70	4.90			
40	34	74	-18.31	2.13	-16.18	18.00	33.68	.64	-.92	-20.16	13.06	-2.47	.16	43.28	.56	1	4.74	4.91			
40	35	75	-24.98	2.16	-22.82	14.71	32.71	.87	.11	-16.66	14.57	-2.52	.17	44.47	.58	1	4.77	4.92			
40	36	76	-33.89	2.18	-31.71	16.97	31.67	1.61	1.08	-18.16	11.08	-2.46	.17	45.59	.58	1	4.81	4.93			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
40	37	77	-39.54	2.20	-37.34	13.71	30.67	1.84	2.08	-14.68	12.59	-2.47	.17	46.65	.58	1	4.84	4.94			
40	38	78	-47.43	2.22	-45.21	15.94	29.65	2.56	3.04	-16.16	8.79	-2.43	.17	47.64	.60	1	4.87	4.95			
40	39	79	-52.13	2.24	-49.89	12.75	28.70	3.17	4.80	-12.75	9.94	-2.48	.17	48.58	.60	1	4.91	4.96			
40	40	80	-59.07	2.26	-56.81	14.99	27.75	4.27	6.50	-14.24	5.87	-2.48	.16	49.45	.60	1	4.94	4.97			
40	41	81	-62.14	2.26	-59.88	11.14	26.14	4.49	7.47	-10.16	7.44	-2.64	.15	50.26	.60	1	4.97	4.98			
40	42	82	-67.47	2.22	-65.25	13.44	24.58	5.22	8.42	-11.34	4.21	-2.79	.14	51.02	.62	1	5.00	4.99			
40	43	83	-69.73	2.11	-67.62	10.45	23.88	5.45	9.38	-7.74	5.90	-3.06	.12	51.73	.62	1	5.03	4.99			
40	44	84	-74.25	1.84	-72.41	12.86	23.31	6.18	10.35	-9.39	2.94	-3.43	.08	52.38	.62	1	5.06	5.00			
40	45	85	-75.76	1.26	-74.50	10.17	23.02	6.45	11.35	-6.39	4.64	-4.11		52.98	.62	1	5.09	5.01	-72.94	2.82	1.56
40	46	86	-79.51	.54	-78.97	12.53	22.70	7.11	12.23	-8.03	1.56	-4.76		53.54	.62	1	5.12	5.02	-77.94	1.57	1.03
40	47	87	-80.31	-.24	-80.55	9.66	22.19	7.31	13.11	-4.94	3.22	-5.24		54.05	.62	1	5.15	5.03	-79.48	.83	1.07
40	48	88	-83.34	-1.10	-84.44	11.96	21.62	7.96	13.97	-6.57	.20	-5.55		54.52	.64	1	5.18	5.04	-83.61	-.27	.83
40	49	89	-83.47	-2.04	-85.51	9.13	21.10	8.16	14.84	-3.54	1.84	-5.92		54.94	.64	1	5.21	5.05	-84.85	-1.38	.66
40	50	90	-85.82	-3.04	-88.86	11.42	20.56	8.80	15.67	-5.17	-3.35	-6.23		55.32	.64	1	5.24	5.06	-88.76	-2.94	.10
40	51	91	-85.32	-1.91	-87.23	6.44	17.86	9.01	16.55	.01	-1.68	-4.41		55.65	.64	1	5.26	5.07	-87.89	-2.57	-.66
40	52	92	-87.03	-.88	-87.91	8.75	15.19	9.65	17.40	-1.64	-4.59	-2.57		55.95	.64	1	5.29	5.08	-88.46	-1.43	-.55
40	53	93	-85.93	.05	-85.88	6.04	14.79	9.85	18.26	1.27	-2.93	-3.05		56.21	.64	1	5.32	5.09	-87.14	-1.21	-1.26
40	54	94	-87.02	.90	-86.12	8.32	14.35	10.46	19.07	-.36	-5.75	-3.46		56.43	.64	1	5.34	5.09	-87.26	-.24	-1.14
40	55	95	-85.36	1.64	-83.72	5.66	13.99	10.63	19.86	2.49	-3.74	-3.95	.05	56.62	.64	1	5.37	5.10	-85.67	-.31	-1.95
40	56	96	-85.87	2.02	-83.85	8.20	13.87	11.16	20.55	.57	-6.37	-4.65	.11	56.77	.64	1	5.39	5.11	-85.43	.44	-1.58
40	57	97	-83.67	2.16	-81.51	5.73	13.94	11.32	21.31	3.11	-4.65	-5.50	.13	56.91	.66	1	5.42	5.12	-82.93	.74	-1.42
40	58	98	-83.64	2.19	-81.45	8.01	13.74	11.89	22.05	1.38	-7.45	-6.00	.15	56.99	.66	1	5.45	5.13	-81.27	2.37	.18
40	59	99	-80.93	2.17	-78.76	5.38	13.39	12.06	22.82	4.17	-5.84	-6.40	.16	57.05	.66	1	5.47	5.14	-78.36	2.57	.40
40	60	100	-80.38	2.12	-78.26	7.57	12.95	12.62	23.56	2.55	-8.65	-6.71	.16	57.08	.66	1	5.50	5.15	-77.09	3.29	1.17
40	61	101	-77.18	2.07	-75.11	4.93	12.49	12.79	24.31	5.36	-7.05	-7.01	.17	57.07	.66	1	5.52	5.16	-72.90	4.28	2.21
40	62	102	-76.13	2.02	-74.11	7.07	12.00	13.34	25.04	3.79	-9.83	-7.26	.17	57.04	.66	1	5.54	5.17			
40	63	103	-72.48	1.98	-70.50	4.46	11.53	13.51	25.78	6.57	-8.25	-7.55	.17	56.98	.66	1	5.57	5.17			
40	64	104	-70.96	1.95	-69.01	6.58	11.04	14.06	26.49	5.02	-11.00	-7.78	.17	56.90	.66	1	5.59	5.18			
40	65	105	-66.87	1.92	-64.95	4.00	10.59	14.22	27.22	7.76	-9.43	-8.08	.17	56.79	.66	1	5.62	5.19			
40	66	106	-64.91	1.91	-63.00	6.12	10.13	14.76	27.93	6.20	-12.14	-8.32	.17	56.66	.66	1	5.64	5.20			
40	67	107	-60.40	1.91	-58.49	3.56	9.68	14.92	28.63	8.93	-10.56	-8.61	.17	56.50	.66	1	5.66	5.21			
40	68	108	-58.01	1.92	-56.09	5.67	9.24	15.45	29.32	7.37	-13.23	-8.86	.17	56.32	.66	1	5.68	5.22			
40	69	109	-53.11	1.93	-51.18	3.16	8.83	15.61	30.02	10.05	-11.64	-9.17	.16	56.11	.66	1	5.71	5.23			
40	70	110	-50.32	1.94	-48.38	5.27	8.43	16.14	30.70	8.48	-14.28	-9.45	.16	55.89	.66	1	5.73	5.24			
40	71	111	-45.04	1.93	-43.11	2.80	8.07	16.30	31.40	11.11	-12.67	-9.80	.15	55.64	.66	1	5.75	5.25			
40	72	112	-41.86	1.89	-39.97	4.93	7.73	16.82	32.08	9.52	-15.24	-10.14	.14	55.37	.66	1	5.77	5.26			
40	73	113	-36.22	1.79	-34.43	2.54	7.46	16.99	32.77	12.09	-13.55	-10.56	.12	55.09	.66	1	5.80	5.26			
40	74	114	-32.66	1.54	-31.12	4.76	7.30	17.53	33.48	10.43	-15.86	-11.07	.08	54.78	.66	1	5.82	5.27			
40	75	115	-26.69	.98	-25.71	2.66	7.42	17.74	34.24	12.77	-14.15	-11.90		54.46	.66	1	5.84	5.28			
40	76	116	-22.78	.28	-22.50	4.86	7.52	18.22	34.86	11.13	-16.63	-12.70		54.12	.66	1	5.86	5.29			
40	77	117	-16.47	-.46	-16.93	2.51	7.36	18.35	35.47	13.62	-14.98	-13.31		53.76	.66	1	5.88	5.30			
40	78	118	-12.22	-1.26	-13.48	4.62	7.13	18.82	36.07	11.99	-17.43	-13.69		53.38	.66	1	5.90	5.31			
40	79	119	-5.60	-2.10	-7.70	2.30	6.91	18.94	36.67	14.46	-15.79	-14.09		52.99	.66	1	5.92	5.32			
40	80	120	-1.03	-3.00	-4.03	4.39	6.70	19.40	37.26	12.83	-18.21	-14.47		52.58	.66	1	5.94	5.33			
40	81	121	5.88	-3.94	1.94	2.10	6.50	19.54	37.86	15.25	-16.58	-14.88		52.16	.66	1	5.96	5.34			
40	82	122	10.77	-4.93	5.84	4.18	6.27	19.98	38.42	13.65	-21.13	-15.24		51.72	.66	1	5.99	5.35			
40	84	124	23.15	-2.77	20.38	1.85	1.60	20.56	39.60	16.57	-21.85	-11.73		50.81	.66	1	6.03	5.36			
40	86	126	36.09	-.88	35.21	1.70	1.31	21.13	40.75	17.31	-22.55	-12.62		49.83	.66	1	6.07	5.38			
40	88	128	49.57	.75	50.32	1.55	1.03	21.68	41.87	18.03	-22.97	-13.49		48.81	.66	1	6.11	5.40			
40	90	130	63.56	1.45	65.01	1.94	1.45	22.06	42.71	18.09	-23.05	-15.03	.13	47.74	.66	1	6.14	5.42			
40	92	132	78.05	1.30	79.35	1.92	1.80	22.53	43.69	18.52	-23.66	-16.22	.16	46.63	.66	1	6.18	5.44			
40	94	134	93.01	1.01	94.02	1.72	1.47	23.02	44.68	19.20	-24.36	-16.87	.17	45.48	.66	1	6.22	5.45			
40	96	136	108.42	.72	109.14	1.48	1.02	23.51	45.67	19.94	-25.08	-17.41	.18	44.29	.66	1	6.26	5.47			
40	98	138	124.27	.47	124.74	1.24	.54	23.99	46.64	20.68	-25.79	-17.92	.18	43.06	.66	1	6.29	5.49			
40	100	140	140.54	.28	140.82	.99	.07	24.46	47.60	21.41	-26.49	-18.41	.19	41.79	.66	1	6.33	5.51			
40	102	142	157.22	.16	157.38	.75	-.41	24.92	48.53	22.14	-27.17	-18.89	.19	40.50	.66	1	6.37	5.53			
40	104	144	174.29	.10	174.39	.51	-.87	25.37	49.45	22.85	-27.84	-19.36	.19	39.12	.64	1	6.40	5.55			
40	106	146	191.73	.11	191.84	.29	-1.31	25.82	50.35	23.53	-28.50	-19.84	.19	37.76	.64	1	6.44	5.56			
40	108	148	209.54	.19	209.73	.06	-1.74	26.25	51.23	24.22	-29.12	-20.31	.19	36.38	.64	1	6.47	5.58			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
41	33	74	2.00	1.98	3.98	16.42	35.39	-2.94	-3.05	-16.97	20.16	-2.28	.14	40.48	.54	1	4.71	4.93			
41	34	75	-8.22	2.06	-6.16	18.21	34.63	-2.73	-2.09	-18.64	16.65	-2.34	.16	41.80	.54	1	4.75	4.94			
41	35	76	-15.66	2.10	-13.56	15.47	33.68	-1.97	-1.10	-15.21	18.14	-2.34	.16	43.04	.56	1	4.78	4.95			
41	36	77	-24.79	2.13	-22.66	17.18	32.64	-1.76	-.15	-16.71	14.67	-2.26	.17	44.22	.56	1	4.82	4.96			
41	37	78	-31.20	2.16	-29.04	14.46	31.63	-1.00	.83	-13.27	16.17	-2.23	.17	45.34	.56	1	4.85	4.97			
41	38	79	-39.32	2.18	-37.14	16.17	30.62	-.78	1.78	-14.77	12.75	-2.18	.17	46.38	.58	1	4.89	4.98			
41	39	80	-44.77	2.20	-42.57	13.50	29.67	-.03	3.15	-11.39	14.24	-2.20	.16	47.37	.58	1	4.92	4.99			
41	40	81	-51.93	2.21	-49.72	15.22	28.72	.20	4.47	-12.88	10.16	-2.21	.16	48.29	.58	1	4.95	5.00			
41	41	82	-56.11	2.19	-53.92	12.26	27.49	1.32	5.82	-9.22	11.32	-2.34	.15	49.16	.60	1	4.98	5.01			
41	42	83	-62.01	2.13	-59.88	14.04	26.30	1.92	7.14	-10.38	7.75	-2.47	.13	49.97	.60	1	5.01	5.02			
41	43	84	-65.00	1.98	-63.02	11.21	25.25	2.68	8.13	-6.46	9.39	-2.77	.10	50.72	.60	1	5.04	5.03			
41	44	85	-69.73	1.62	-68.11	13.17	24.37	2.99	9.17	-8.12	6.39	-3.21	.04	51.43	.60	1	5.07	5.04			
41	45	86	-71.94	.99	-70.95	10.91	24.08	3.73	10.18	-5.06	8.02	-3.91		52.08	.60	1	5.10	5.05			
41	46	87	-75.90	.29	-75.61	12.74	23.65	3.93	11.05	-6.68	4.95	-4.52		52.69	.62	1	5.13	5.06	-74.28	1.62	1.33
41	47	88	-77.39	-.49	-77.88	10.34	23.08	4.61	11.93	-3.63	6.57	-4.96		53.25	.62	1	5.16	5.07	-76.41	.98	1.47
41	48	89	-80.62	-1.34	-81.96	12.16	22.49	4.80	12.77	-5.24	3.55	-5.24		53.76	.62	1	5.19	5.07	-80.98	-.36	.98
41	49	90	-81.42	-2.27	-83.69	9.79	21.96	5.46	13.63	-2.25	5.17	-5.59		54.22	.62	1	5.22	5.08	-82.65	-1.23	1.04
41	50	91	-83.98	-3.26	-87.24	11.62	21.42	5.67	14.47	-3.88	-.01	-5.90		54.65	.62	1	5.25	5.09	-86.63	-2.65	.61
41	51	92	-84.13	-2.14	-86.27	7.10	18.72	6.32	15.33	1.26	1.64	-4.06		55.03	.62	1	5.27	5.10	-86.45	-2.32	-.18
41	52	93	-86.03	-1.11	-87.14	8.95	16.05	6.52	16.16	-.37	-1.27	-2.21		55.37	.62	1	5.30	5.11	-87.21	-1.18	-.07
41	53	94	-85.57	-.18	-85.75	6.68	15.63	7.17	17.01	2.53	.38	-2.66		55.69	.64	1	5.33	5.12	-86.36	-.79	-.61
41	54	95	-86.86	.65	-86.21	8.52	15.20	7.37	17.84	.88	-2.50	-3.08		55.95	.64	1	5.35	5.13	-86.79	.07	-.58
41	55	96	-85.82	1.40	-84.42	6.28	14.81	7.99	18.62	3.73	-.57	-3.53		56.18	.64	1	5.38	5.14	-85.61	.21	-1.19
41	56	97	-86.53	1.91	-84.62	8.27	14.55	8.06	19.22	1.93	-3.11	-4.10	.10	56.38	.64	1	5.41	5.15	-85.61	.93	-.99
41	57	98	-84.94	2.10	-82.84	6.29	14.56	8.61	19.94	4.39	-1.39	-4.89	.13	56.54	.64	1	5.43	5.15	-83.51	1.43	-.67
41	58	99	-85.09	2.17	-82.92	8.16	14.44	8.76	20.64	2.61	-4.16	-5.37	.14	56.67	.64	1	5.46	5.16	-82.86	2.23	.06

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
41	59	100	-82.98	2.17	-80.81	5.96	14.12	9.34	21.39	5.34	-2.56	-5.75	.15	56.77	.64	1	5.48	5.17	-80.19	2.79	.62
41	60	101	-82.61	2.14	-80.47	7.73	13.69	9.51	22.12	3.71	-5.36	-6.04	.16	56.83	.64	1	5.51	5.18	-79.40	3.21	1.07
41	61	102	-80.00	2.10	-77.90	5.50	13.23	10.09	22.87	6.49	-3.79	-6.33	.16	56.87	.64	1	5.53	5.19	-76.20	3.80	1.70
41	62	103	-79.13	2.05	-77.08	7.25	12.75	10.25	23.60	4.90	-6.58	-6.58	.17	56.88	.64	1	5.55	5.20			
41	63	104	-76.05	2.02	-74.03	5.03	12.27	10.82	24.33	7.67	-5.01	-6.85	.17	56.85	.64	1	5.58	5.21			
41	64	105	-74.70	1.99	-72.71	6.76	11.78	10.98	25.04	6.12	-7.76	-7.08	.17	56.83	.66	1	5.60	5.22			
41	65	106	-71.17	1.97	-69.20	4.56	11.31	11.54	25.77	8.85	-6.20	-7.35	.17	56.75	.66	1	5.63	5.23			
41	66	107	-69.37	1.96	-67.41	6.28	10.84	11.71	26.47	7.30	-8.92	-7.59	.17	56.65	.66	1	5.65	5.23			
41	67	108	-65.42	1.95	-63.47	4.12	10.41	12.26	27.19	9.98	-7.37	-7.88	.16	56.53	.66	1	5.67	5.24			
41	68	109	-63.19	1.96	-61.23	5.84	9.96	12.43	27.88	8.44	-10.04	-8.13	.16	56.38	.66	1	5.69	5.25			
41	69	110	-58.82	1.96	-56.86	3.70	9.54	12.96	28.58	11.10	-8.48	-8.43	.16	56.21	.66	1	5.72	5.26			
41	70	111	-56.18	1.96	-54.22	5.43	9.13	13.13	29.26	9.55	-11.11	-8.71	.15	56.02	.66	1	5.74	5.27			
41	71	112	-51.43	1.94	-49.49	3.34	8.77	13.67	29.97	12.17	-9.53	-9.05	.14	55.81	.66	1	5.76	5.28			
41	72	113	-48.40	1.87	-46.53	5.10	8.45	13.85	30.67	10.58	-12.10	-9.42	.13	55.57	.66	1	5.78	5.29			
41	73	114	-43.28	1.73	-41.55	3.10	8.20	14.41	31.40	13.13	-10.43	-9.87	.10	55.32	.66	1	5.81	5.30			
41	74	115	-39.87	1.39	-38.48	5.00	8.10	14.65	32.17	11.45	-12.77	-10.47	.05	55.04	.66	1	5.83	5.31			
41	75	116	-34.39	.76	-33.63	3.22	8.22	15.20	32.95	13.87	-11.14	-11.32		54.75	.66	1	5.85	5.31			
41	76	117	-30.63	.08	-30.55	5.00	8.21	15.35	33.57	12.25	-13.62	-12.09		54.44	.66	1	5.87	5.32			
41	77	118	-24.81	-.66	-25.47	2.99	7.99	15.83	34.18	14.72	-11.99	-12.64		54.11	.66	1	5.89	5.33			
41	78	119	-20.70	-1.45	-22.15	4.75	7.75	15.96	34.78	13.10	-14.44	-13.01		53.76	.66	1	5.91	5.34			
41	79	120	-14.57	-2.29	-16.86	2.78	7.53	16.44	35.39	15.54	-12.83	-13.42		53.40	.66	1	5.93	5.35			
41	80	121	-10.13	-3.18	-13.31	4.52	7.30	16.57	35.98	13.93	-15.25	-13.79		53.02	.66	1	5.95	5.36			
41	81	122	-3.69	-4.12	-7.81	2.57	7.09	17.04	36.57	16.33	-13.64	-14.19		52.62	.66	1	5.97	5.37			
41	82	123	1.07	-5.10	-4.03	4.30	6.86	17.16	37.13	14.74	-18.18	-14.54		52.21	.66	1	6.00	5.38			
41	83	124	7.81	-4.00	3.81	.22	4.53	17.63	37.74	19.25	-16.57	-12.80		51.78	.66	1	6.02	5.39			
41	84	125	12.86	-2.95	9.91	1.98	2.19	17.76	38.32	17.64	-18.92	-11.04		51.34	.66	1	6.04	5.39			
41	85	126	19.88	-1.98	17.90	.08	2.05	18.22	38.91	19.98	-17.31	-11.50		50.89	.66	1	6.06	5.40			
41	86	127	25.22	-1.07	24.15	1.82	1.90	18.35	39.48	18.37	-19.65	-11.92		50.42	.66	1	6.08	5.41			
41	88	129	38.14	.56	38.70	1.67	1.60	18.92	40.59	19.09	-20.18	-12.77		49.45	.66	1	6.11	5.43			
41	90	131	51.58	1.45	53.03	1.96	1.81	19.27	41.33	19.29	-20.17	-14.10	.12	48.43	.66	1	6.15	5.45			
41	91	132	59.38	1.45	60.83	.27	2.23	19.66	41.80	21.23	-18.52	-14.88	.14	47.90	.66	1	6.17	5.46			
41	92	133	65.53	1.37	66.90	2.01	2.27	19.74	42.27	19.54	-20.77	-15.31	.16	47.36	.66	1	6.19	5.47			
41	93	134	73.57	1.25	74.82	.15	2.16	20.14	42.77	21.77	-19.20	-15.66	.16	46.81	.66	1	6.21	5.48			
41	94	135	79.96	1.11	81.07	1.82	1.97	20.24	43.26	20.19	-21.48	-15.95	.17	46.25	.66	1	6.23	5.48			
41	96	137	94.86	.84	95.70	1.58	1.51	20.73	44.24	20.91	-22.21	-16.48	.18	45.09	.66	1	6.27	5.50			
41	98	139	110.20	.60	110.80	1.34	1.04	21.23	45.22	21.64	-22.94	-16.98	.18	43.86	.64	1	6.30	5.52			
41	100	141	125.98	.41	126.39	1.09	.55	21.72	46.18	22.36	-23.66	-17.47	.19	42.63	.64	1	6.34	5.54			
41	102	143	142.18	.29	142.47	.84	.07	22.19	47.11	23.08	-24.36	-17.95	.19	41.36	.64	1	6.38	5.56			
41	104	145	158.77	.24	159.01	.61	-.40	22.67	48.04	23.78	-25.05	-18.42	.19	40.07	.64	1	6.41	5.58			
41	106	147	175.75	.25	176.00	.38	-.85	23.13	48.95	24.46	-25.72	-18.90	.18	38.75	.64	1	6.45	5.59			
41	108	149	193.11	.33	193.44	.15	-1.29	23.58	49.83	25.15	-26.37	-19.36	.18	37.40	.64	1	6.48	5.61			
41	118	159	285.00	-.29	284.71	.02	-1.79	26.02	54.54	27.76	-28.80	-23.33		30.21	.62	1	6.65	5.70			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
42	29	71	54.83	-.78	54.05	18.18	41.89	-2.94	-7.72	-23.85	21.91	-3.86		32.59	.48	1	4.58	4.93			
42	30	72	41.45	.14	41.59	20.53	38.72	-2.16	-6.72	-25.40	18.36	-1.65		34.27	.50	1	4.61	4.94			
42	31	73	31.53	.93	32.46	17.20	37.73	-1.94	-5.72	-21.85	20.14	-1.71		35.88	.50	1	4.65	4.95			
42	32	74	19.40	1.55	20.95	19.58	36.79	-1.34	-5.01	-23.45	16.97	-1.77	.08	37.40	.52	1	4.69	4.96			
42	33	75	10.65	1.83	12.48	16.54	36.12	-1.22	-4.15	-20.24	18.64	-2.11	.12	38.85	.52	1	4.73	4.97			
42	34	76	-.31	1.96	1.65	18.90	35.45	-.52	-3.25	-22.02	15.20	-2.13	.14	40.21	.54	1	4.76	4.98			
42	35	77	-7.97	2.03	-5.94	15.66	34.56	-.32	-2.30	-18.65	16.72	-2.12	.15	41.52	.54	1	4.80	4.99			
42	36	78	-17.84	2.07	-15.77	17.90	33.56	.40	-1.35	-20.18	13.28	-2.01	.16	42.76	.54	1	4.83	5.00			
42	37	79	-24.47	2.10	-22.37	14.67	32.57	.62	-.39	-16.75	14.77	-1.98	.16	43.92	.56	1	4.87	5.01			
42	38	80	-33.30	2.12	-31.18	16.88	31.55	1.33	.55	-18.23	11.39	-1.90	.16	45.02	.56	1	4.90	5.02			
42	39	81	-38.97	2.14	-36.83	13.72	30.60	1.56	1.52	-14.85	12.89	-1.92	.15	46.06	.56	1	4.93	5.03			
42	40	82	-46.84	2.13	-44.71	15.94	29.67	2.27	2.48	-16.34	9.20	-1.93	.15	47.04	.56	1	4.96	5.04			
42	41	83	-51.60	2.10	-49.50	12.87	28.81	2.88	4.20	-13.02	10.38	-2.04	.13	47.96	.58	1	4.99	5.05			
42	42	84	-58.55	1.99	-56.56	15.13	28.00	3.97	5.89	-14.53	6.46	-2.17	.11	48.82	.58	1	5.03	5.05			
42	43	85	-61.75	1.76	-59.99	11.51	26.63	4.26	6.94	-10.61	8.12	-2.53	.07	49.63	.58	1	5.06	5.06			
42	44	86	-67.15	1.26	-65.89	13.97	25.48	5.07	8.06	-11.86	5.05	-3.07		50.38	.60	1	5.09	5.07			
42	45	87	-69.58	.65	-68.93	11.12	25.08	5.28	9.00	-8.41	6.68	-3.73		51.08	.60	1	5.12	5.08			
42	46	88	-74.20	-.05	-74.25	13.39	24.51	5.93	9.86	-10.01	3.62	-4.26		51.74	.60	1	5.15	5.09	-71.81	2.39	2.44
42	47	89	-75.90	-.82	-76.72	10.54	23.93	6.13	10.74	-6.96	5.25	-4.64		52.34	.60	1	5.17	5.10	-75.01	.89	1.71
42	48	90	-79.78	-1.66	-81.44	12.80	23.34	6.77	11.57	-8.55	2.25	-4.90		52.90	.60	1	5.20	5.11	-80.16	-.38	1.28
42	49	91	-80.79	-2.58	-83.37	10.00	22.80	6.97	12.44	-5.55	3.87	-5.24		53.42	.62	1	5.23	5.12	-82.19	-1.40	1.18
42	50	92	-83.97	-3.56	-87.53	12.24	22.23	7.59	13.25	-7.15	-1.26	-5.51		53.89	.62	1	5.26	5.13	-86.81	-2.84	.72
42	51	93	-84.33	-2.45	-86.78	7.32	19.56	7.80	14.12	-2.03	.37	-3.69		54.32	.62	1	5.29	5.14	-86.81	-2.48	-.03
42	52	94	-86.85	-1.43	-88.28	9.58	16.89	8.42	14.95	-3.65	-2.52	-1.84		54.71	.62	1	5.31	5.14	-88.41	-1.56	-.13
42	53	95	-86.58	-.50	-87.08	6.88	16.45	8.61	15.78	-.74	-.87	-2.27		55.05	.62	1	5.34	5.15	-87.71	-1.13	-.63
42	54	96	-88.48	.33	-88.15	9.13	16.02	9.23	16.60	-2.36	-3.73	-2.67		55.36	.62	1	5.37	5.16	-88.80	-.32	-.65
42	55	97	-87.63	1.08	-86.55	6.47	15.60	9.42	17.41	.50	-1.93	-3.10		55.64	.62	1	5.39	5.17	-87.54	.09	-.99
42	56	98	-88.93	1.71	-87.22	8.74	15.21	9.89	17.95	-1.15	-4.39	-3.52	.07	55.87	.62	1	5.42	5.18	-88.11	.82	-.89
42	57	99	-87.53	2.00	-85.53	6.37	15.12	9.98	18.60	1.37	-2.60	-4.24	.11	56.08	.62	1	5.44	5.19	-85.96	1.57	-.43
42	58	100	-88.26	2.12	-86.14	8.69	15.06	10.50	19.27	-.52	-5.33	-4.72	.13	56.26	.64	1	5.47	5.20	-86.19	2.07	-.05
42	59	101	-86.33	2.15	-84.18	6.11	14.80	10.66	20.00	2.16	-3.71	-5.09	.14	56.40	.64	1	5.49	5.21	-83.50	2.83	.68
42	60	102	-86.53	2.14	-84.39	8.28	14.39	11.21	20.72	.52	-6.49	-5.36	.15	56.50	.64	1	5.52	5.21	-83.60	2.93	.79
42	61	103	-84.10	2.11	-81.99	5.67	13.95	11.37	21.46	3.28	-4.92	-5.65	.16	56.58	.64	1	5.54	5.22	-80.50	3.60	1.49
42	62	104	-83.79	2.08	-81.71	7.79	13.46	11.92	22.18	1.71	-7.68	-5.88	.16	56.62	.64	1	5.57	5.23	-80.19	3.60	1.52
42	63	105	-80.88	2.05	-78.83	5.20	12.99	12.09	22.91	4.47	-6.12	-6.15	.16	56.64	.64	1	5.59	5.24			
42	64	106	-80.08	2.03	-78.05	7.30	12.49	12.63	23.61	2.93	-8.85	-6.36	.16	56.63	.64	1	5.61	5.25			
42	65	107	-76.72	2.01	-74.71	4.73	12.03	12.80	24.34	5.67	-7.29	-6.63	.16	56.59	.64	1	5.64	5.26			
42	66	108	-75.45	2.00	-73.45	6.82	11.54	13.32	25.03	4.13	-9.99	-6.86	.16	56.53	.64	1	5.66	5.27			
42	67	109	-71.66	1.99	-69.67	4.28	11.11	13.49	25.76	6.83	-8.44	-7.15	.16	56.44	.64	1	5.68	5.28			
42	68	110	-69.95	1.99	-67.96	6.36	10.65	14.02	26.44	5.30	-11.10	-7.39	.16	56.33	.64	1	5.71	5.28			
42	69	111	-65.75	1.98	-63.77	3.87	10.25	14.19	27.16	7.96	-9.55	-7.70	.15	56.19	.64	1	5.73	5.29			
42	70	112	-63.62	1.97	-61.65	5.96	9.83	14.72	27.85	6.43	-12.16	-7.98	.14	56.03	.64	1	5.75	5.30			
42	71	113	-59.02	1.92	-57.10	3.52	9.48	14.90	28.57	9.06	-10.58	-8.34	.13	55.85	.64	1	5.77	5.31			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
42	72	114	-56.49	1.82	-54.67	5.64	9.16	15.44	29.29	7.50	-13.12	-8.71	.11	55.65	.64	1	5.79	5.32			
42	73	115	-51.52	1.59	-49.93	3.32	8.97	15.67	30.08	10.03	-11.45	-9.24	.08	55.43	.64	1	5.82	5.33			
42	74	116	-48.60	1.11	-47.49	5.63	8.96	16.30	30.94	8.38	-13.86	-9.95		55.18	.64	1	5.84	5.34			
42	75	117	-43.28	.48	-42.80	3.37	9.01	16.46	31.67	10.87	-12.25	-10.79		54.92	.64	1	5.86	5.35			
42	76	118	-39.99	-.20	-40.19	5.47	8.84	16.93	32.28	9.27	-14.72	-11.49		54.64	.64	1	5.88	5.35			
42	77	119	-34.32	-.93	-35.25	3.13	8.60	17.07	32.90	11.75	-13.09	-11.97		54.33	.64	1	5.90	5.36			
42	78	120	-30.68	-1.72	-32.40	5.22	8.35	17.53	33.50	10.15	-15.54	-12.33		54.02	.64	1	5.92	5.37			
42	79	121	-24.69	-2.55	-27.24	2.91	8.13	17.67	34.11	12.59	-13.93	-12.73		53.68	.64	1	5.94	5.38			
42	80	122	-20.71	-3.44	-24.15	4.98	7.89	18.12	34.70	10.99	-16.34	-13.10		53.33	.64	1	5.96	5.39			
42	81	123	-14.40	-4.37	-18.77	2.69	7.68	18.25	35.29	13.41	-14.73	-13.49		52.96	.64	1	5.99	5.40			
42	82	124	-10.10	-5.35	-15.45	4.75	7.45	18.70	35.86	11.81	-19.26	-13.85		52.57	.64	1	6.01	5.41			
42	83	125	-3.49	-4.24	-7.73	.36	5.11	18.83	36.46	16.34	-17.63	-12.10		52.17	.64	1	6.03	5.42			
42	84	126	1.12	-3.20	-2.08	2.42	2.78	19.28	37.04	14.74	-19.98	-10.34		51.76	.64	1	6.05	5.43			
42	85	127	8.02	-2.23	5.79	.20	2.62	19.40	37.62	17.10	-18.36	-10.79		51.33	.64	1	6.07	5.43			
42	86	128	12.93	-1.33	11.60	2.25	2.46	19.84	38.19	15.50	-20.69	-11.20		50.88	.64	1	6.09	5.44			
42	87	129	20.10	-.49	19.61	.06	2.32	19.97	38.77	17.82	-19.08	-11.65		50.43	.64	1	6.11	5.45			
42	88	130	25.29	.29	25.58	2.10	2.16	20.40	39.32	16.23	-21.34	-12.06		49.96	.64	1	6.12	5.46			
42	90	132	38.20	1.40	39.60	2.20	2.13	20.71	39.99	16.68	-21.23	-13.15	.11	48.98	.64	1	6.16	5.48			
42	91	133	45.88	1.48	47.36	.31	2.52	20.77	40.42	18.50	-19.53	-13.94	.13	48.47	.64	1	6.18	5.49			
42	92	134	51.62	1.43	53.05	2.38	2.69	21.13	40.87	16.74	-21.77	-14.38	.15	47.95	.64	1	6.20	5.50			
42	93	135	59.55	1.33	60.88	.24	2.62	21.22	41.37	18.94	-20.19	-14.74	.16	47.42	.64	1	6.22	5.51			
42	94	136	65.53	1.21	66.74	2.21	2.45	21.61	41.86	17.35	-22.46	-15.03	.17	46.88	.64	1	6.24	5.51			
42	95	137	73.70	1.09	74.79	.03	2.24	21.70	42.34	19.62	-20.90	-15.30	.17	46.33	.64	1	6.26	5.52			
42	96	138	79.93	.96	80.89	1.97	2.00	22.09	42.83	18.08	-23.17	-15.55	.17	45.77	.64	1	6.28	5.53			
42	98	140	94.79	.73	95.52	1.71	1.52	22.56	43.80	18.82	-23.89	-16.05	.18	44.61	.64	1	6.31	5.55			
42	100	142	110.08	.56	110.64	1.46	1.02	23.05	44.76	19.56	-24.60	-16.53	.18	43.42	.64	1	6.35	5.57			
42	102	144	125.81	.44	126.25	1.21	.54	23.51	45.71	20.30	-25.29	-17.00	.18	42.20	.64	1	6.39	5.59			
42	104	146	141.94	.39	142.33	.97	.06	23.97	46.64	21.01	-25.98	-17.47	.18	40.94	.64	1	6.42	5.60			
42	106	148	158.47	.40	158.87	.74	-.39	24.42	47.55	21.72	-26.64	-17.94	.18	39.65	.64	1	6.46	5.62			
42	108	150	175.38	.47	175.85	.51	-.83	24.87	48.45	22.41	-27.30	-18.42	.18	38.27	.62	1	6.49	5.64			
42	110	152	192.66	.59	193.25	.30	-1.25	25.31	49.35	23.08	-27.93	-18.90	.17	36.92	.62	1	6.53	5.66			
42	112	154	210.29	.75	211.04	.11	-1.64	25.75	50.23	23.73	-28.54	-19.40	.16	35.55	.62	1	6.56	5.68			
42	118	160	265.20	-.52	264.68	.33	-1.23	27.32	53.33	25.20	-29.78	-22.66		31.28	.62	1	6.66	5.73			
42	120	162	284.14	-1.95	282.19	.24	-1.36	27.70	54.10	25.69	-30.22	-23.67		29.82	.62	1	6.70	5.75			
42	122	164	303.37	-3.53	299.84	.16	-1.51	28.08	54.87	26.16	-30.67	-24.30		28.27	.60	1	6.73	5.77			
42	124	166	322.89	-5.24	317.65	.09	-1.66	28.44	55.61	26.62	-31.11	-24.90		26.77	.60	1	6.76	5.78			
42	126	168	342.70	-7.09	335.61		-1.81	28.80	56.33	27.08	-33.56	-25.49		25.25	.60	1	6.79	5.80			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
43	36	79	-7.58	1.97	-5.61	18.09	34.46	-2.87	-2.47	-18.61	16.76	-1.88	.14	41.19	.54	1	4.84	5.03			
43	37	80	-14.96	2.01	-12.95	15.41	33.50	-2.13	-1.52	-15.27	18.23	-1.82	.15	42.41	.54	1	4.88	5.04			
43	38	81	-24.01	2.03	-21.98	17.10	32.51	-1.91	-.58	-16.77	14.86	-1.75	.14	43.57	.54	1	4.91	5.05			
43	39	82	-30.40	2.03	-28.37	14.46	31.56	-1.18	.38	-13.43	16.33	-1.75	.14	44.66	.56	1	4.94	5.06			
43	40	83	-38.49	2.01	-36.48	16.18	30.64	-.93	1.34	-14.91	13.02	-1.76	.13	45.69	.56	1	4.97	5.07			
43	41	84	-43.96	1.93	-42.03	13.62	29.80	-.18	2.70	-11.62	14.53	-1.89	.11	46.66	.56	1	5.01	5.08			
43	42	85	-51.13	1.74	-49.39	15.42	29.05	.12	4.09	-13.12	10.60	-2.09	.08	47.57	.56	1	5.04	5.09			
43	43	86	-55.38	1.35	-54.03	12.71	28.14	1.32	5.59	-9.59	11.86	-2.54		48.43	.58	1	5.07	5.10			
43	44	87	-61.35	.82	-60.53	14.57	27.29	1.93	7.00	-10.83	8.40	-3.08		49.24	.58	1	5.10	5.11			
43	45	88	-64.46	.22	-64.24	11.79	26.35	2.60	7.88	-7.05	10.01	-3.65		49.99	.58	1	5.13	5.12			
43	46	89	-69.29	-.47	-69.76	13.59	25.38	2.80	8.73	-8.65	6.96	-4.08		50.69	.58	1	5.16	5.12			
43	47	90	-71.66	-1.23	-72.89	11.20	24.79	3.47	9.59	-5.62	8.55	-4.37		51.35	.60	1	5.19	5.13			
43	48	91	-75.75	-2.07	-77.82	13.00	24.20	3.67	10.43	-7.23	5.54	-4.64		51.95	.60	1	5.21	5.14	-76.59	-.84	1.23
43	49	92	-77.41	-2.97	-80.38	10.64	23.63	4.31	11.27	-4.24	7.15	-4.93		52.51	.60	1	5.24	5.15	-78.86	-1.45	1.52
43	50	93	-80.80	-3.95	-84.75	12.44	23.08	4.50	12.09	-5.84	2.02	-5.21		53.03	.60	1	5.27	5.16	-83.62	-2.82	1.13
43	51	94	-81.80	-2.84	-84.64	7.96	20.40	5.16	12.95	-.76	3.64	-3.37		53.50	.60	1	5.30	5.17	-84.15	-2.35	.49
43	52	95	-84.52	-1.82	-86.34	9.78	17.74	5.36	13.77	-2.37	.75	-1.53		53.93	.60	1	5.32	5.18	-86.01	-1.49	.33
43	53	96	-84.88	-.90	-85.78	7.51	17.29	5.98	14.60	.51	2.37	-1.94		54.34	.62	1	5.35	5.19	-85.86	-.98	-.08
43	54	97	-86.97	-.07	-87.04	9.33	16.84	6.18	15.41	-1.10	-.49	-2.32		54.69	.62	1	5.38	5.19	-87.20	-.23	-.16
43	55	98	-86.74	.67	-86.07	7.09	16.43	6.80	16.23	1.73	1.16	-2.74		55.00	.62	1	5.40	5.20	-86.52	.22	-.45
43	56	99	-88.23	1.33	-86.90	8.90	16.00	6.96	16.86	.11	-1.37	-3.11		55.28	.62	1	5.43	5.21	-87.33	.90	-.43
43	57	100	-87.43	1.81	-85.62	6.79	15.69	7.38	17.37	2.81	.53	-3.63	.09	55.53	.62	1	5.45	5.22	-85.85	1.58	-.23
43	58	101	-88.35	2.02	-86.33	8.78	15.57	7.48	17.98	.92	-2.15	-4.14	.12	55.74	.62	1	5.48	5.23	-86.32	2.03	.01
43	59	102	-87.01	2.10	-84.91	6.65	15.43	8.02	18.68	3.45	-.52	-4.50	.13	55.91	.62	1	5.50	5.24	-84.60	2.41	.31
43	60	103	-87.39	2.12	-85.27	8.43	15.08	8.17	19.38	1.76	-3.29	-4.77	.14	56.06	.62	1	5.53	5.25	-84.90	2.49	.37
43	61	104	-85.54	2.12	-83.42	6.22	14.65	8.73	20.10	4.47	-1.72	-5.03	.15	56.17	.62	1	5.55	5.26	-82.79	2.75	.63
43	62	105	-85.40	2.10	-83.30	7.95	14.17	8.89	20.80	2.89	-4.47	-5.25	.15	56.26	.62	1	5.58	5.26	-82.53	2.87	.77
43	63	106	-83.06	2.08	-80.98	5.75	13.70	9.45	21.53	5.62	-2.93	-5.50	.16	56.31	.62	1	5.60	5.27	-79.82	3.24	1.16
43	64	107	-82.43	2.06	-80.37	7.46	13.21	9.61	22.23	4.07	-5.66	-5.72	.16	56.34	.62	1	5.62	5.28			
43	65	108	-79.63	2.04	-77.59	5.28	12.75	10.17	22.97	6.78	-4.14	-5.99	.16	56.36	.64	1	5.65	5.29			
43	66	109	-78.53	2.03	-76.50	6.99	12.27	10.33	23.66	5.25	-6.83	-6.21	.15	56.33	.64	1	5.67	5.30			
43	67	110	-75.28	2.02	-73.26	4.83	11.82	10.88	24.38	7.93	-5.30	-6.48	.15	56.28	.64	1	5.69	5.31			
43	68	111	-73.74	2.01	-71.73	6.54	11.37	11.06	25.08	6.40	-7.96	-6.74	.15	56.20	.64	1	5.72	5.32			
43	69	112	-70.07	1.98	-68.09	4.42	10.97	11.61	25.81	9.05	-6.43	-7.05	.14	56.10	.64	1	5.74	5.32			
43	70	113	-68.10	1.94	-66.16	6.15	10.57	11.79	26.51	7.51	-9.05	-7.35	.13	55.97	.64	1	5.76	5.33			
43	71	114	-64.02	1.86	-62.16	4.08	10.22	12.35	27.25	10.14	-7.48	-7.72	.12	55.82	.64	1	5.78	5.34			
43	72	115	-61.65	1.68	-59.97	5.87	9.96	12.58	28.02	8.57	-10.04	-8.17	.09	55.65	.64	1	5.81	5.35			
43	73	116	-57.18	1.32	-55.86	3.97	9.84	13.22	28.89	11.11	-8.36	-8.79		55.46	.64	1	5.83	5.36			
43	74	117	-54.42	.75	-53.67	5.87	9.85	13.46	29.77	9.49	-10.87	-9.57		55.25	.64	1	5.85	5.37			
43	75	118	-49.59	.13	-49.46	3.87	9.74	13.96	30.41	11.99	-9.27	-10.34		55.02	.64	1	5.87	5.38			
43	76	119	-46.45	-.55	-47.00	5.61	9.47	14.10	31.03	10.39	-11.75	-10.95		54.76	.64	1	5.89	5.39			
43	77	120	-41.27	-1.28	-42.55	3.62	9.23	14.58	31.65	12.84	-10.15	-11.35		54.49	.64	1	5.91	5.39			
43	78	121	-37.77	-2.05	-39.82	5.35	8.96	14.71	32.24	11.26	-12.58	-11.70		54.20	.64	1	5.93	5.40			
43	79	122	-32.26	-2.88	-35.14	3.39	8.74	15.19	32.86	13.68	-11.00	-12.09		53.89	.64	1	5.95	5.41			
43	80	123	-28.42	-3.76	-32.18	5.11	8.50	15.32	33.45	12.09	-13.41	-12.45		53.57	.64	1	5.97	5.42			
43	81	124	-22.58	-4.68	-27.26	3.16	8.26	15.79	34.03	14.50	-11.82	-12.82		53.23	.64	1	6.00	5.43			
43	82	125	-18.41	-5.66	-24.07	4.87	8.04	15.91	34.61	12.91	-16.34	-13.18		52.87	.64	1	6.02	5.44			
43	83	126	-12.27	-4.55	-16.82	.83	5.70	16.38	35.21	17.41	-14.74	-11.44		52.50	.64	1	6.04	5.45			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
43	84	127	-7.79	-3.52	-11.31	2.56	3.38	16.52	35.79	15.81	-17.09	-9.70		52.11	.64	1	6.06	5.46			
43	85	128	-1.34	-2.55	-3.89	.66	3.21	16.97	36.37	18.16	-15.49	-10.12		51.70	.64	1	6.08	5.46			
43	86	129	3.44	-1.65	1.79	2.39	3.05	17.10	36.94	16.56	-17.82	-10.54		51.29	.64	1	6.10	5.47			
43	87	130	10.17	-.81	9.36	.50	2.89	17.54	37.51	18.88	-16.22	-10.97		50.85	.64	1	6.12	5.48			
43	88	131	15.24	-.04	15.20	2.22	2.73	17.67	38.07	17.29	-18.54	-11.38		50.41	.64	1	6.13	5.49			
43	89	132	22.24	.68	22.92	.35	2.58	18.11	38.58	19.58	-16.68	-11.80		49.95	.64	1	6.15	5.50			
43	90	133	27.59	1.27	28.86	2.13	2.48	18.03	38.75	17.93	-18.50	-12.26	.08	49.48	.64	1	6.17	5.51			
43	91	134	34.85	1.46	36.31	.61	2.75	18.34	39.10	19.80	-16.74	-13.03	.12	48.99	.64	1	6.19	5.52			
43	92	135	40.47	1.48	41.95	2.44	3.05	18.39	39.52	17.87	-18.93	-13.50	.14	48.50	.64	1	6.21	5.53			
43	93	136	47.98	1.41	49.39	.62	3.07	18.78	40.00	19.98	-17.36	-13.87	.15	47.99	.64	1	6.23	5.53			
43	94	137	53.85	1.32	55.17	2.30	2.92	18.87	40.48	18.38	-19.62	-14.15	.16	47.47	.64	1	6.25	5.54			
43	95	138	61.61	1.21	62.82	.43	2.72	19.26	40.96	20.62	-18.07	-14.42	.17	46.94	.64	1	6.27	5.55			
43	96	139	67.73	1.09	68.82	2.06	2.49	19.36	41.45	19.06	-20.34	-14.67	.17	46.40	.64	1	6.29	5.56			
43	97	140	75.72	.98	76.70	.19	2.26	19.75	41.94	21.31	-18.82	-14.93	.17	45.85	.64	1	6.31	5.57			
43	98	141	82.08	.88	82.96	1.81	2.00	19.85	42.42	19.80	-21.07	-15.16	.18	45.29	.64	1	6.32	5.58			
43	100	143	96.88	.71	97.59	1.56	1.51	20.34	43.38	20.52	-21.80	-15.63	.18	44.13	.64	1	6.36	5.60			
43	102	145	112.11	.60	112.71	1.31	1.02	20.83	44.34	21.24	-22.52	-16.11	.18	42.95	.64	1	6.40	5.61			
43	104	147	127.77	.55	128.32	1.06	.54	21.30	45.27	21.96	-23.22	-16.57	.18	41.67	.62	1	6.43	5.63			
43	106	149	143.83	.56	144.39	.83	.07	21.77	46.19	22.66	-23.90	-17.05	.18	40.41	.62	1	6.47	5.65			
43	108	151	160.28	.63	160.91	.61	-.37	22.24	47.10	23.34	-24.57	-17.52	.17	39.12	.62	1	6.50	5.67			
43	110	153	177.11	.74	177.85	.40	-.79	22.69	48.00	24.01	-25.22	-18.01	.17	37.80	.62	1	6.54	5.69			
43	112	155	194.31	.87	195.18	.20	-1.18	23.15	48.90	24.66	-25.85	-18.52	.16	36.46	.62	1	6.57	5.70			
43	114	157	211.85	.95	212.80	.07	-1.48	23.65	49.84	25.28	-26.43	-19.13	.13	35.09	.62	1	6.60	5.72			
43	116	159	229.74	.48	230.22	.31	-1.28	24.37	51.13	25.70	-26.73	-20.27		33.70	.62	1	6.64	5.74			
43	118	161	247.95	-.80	247.15	.41	-.79	24.82	52.14	26.19	-27.21	-22.05		32.22	.60	1	6.67	5.76			
43	120	163	266.48	-2.23	264.25	.32	-.96	25.22	52.93	26.67	-27.69	-22.89		30.78	.60	1	6.70	5.77			
43	122	165	285.32	-3.79	281.53	.23	-1.13	25.61	53.68	27.15	-28.13	-23.49		29.32	.60	1	6.74	5.79			
43	124	167	304.45	-5.50	298.95	.15	-1.28	25.99	54.43	27.60	-28.59	-24.10		27.84	.60	1	6.77	5.81			
43	126	169	323.87	-7.34	316.53	.07	-1.44	26.36	55.17	28.05	-31.06	-24.70		26.34	.60	1	6.80	5.83			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
44	31	75	54.67	-.14	54.53	18.20	39.69	-2.85	-7.49	-23.69	21.81	-1.94		32.14	.48	1	4.68	5.02			
44	32	76	41.59	.53	42.12	20.49	38.68	-2.11	-6.59	-25.21	18.45	-1.90		33.78	.48	1	4.71	5.03			
44	33	77	31.86	1.07	32.93	17.26	37.74	-1.97	-5.87	-21.78	20.22	-1.95		35.34	.48	1	4.75	5.04			
44	34	78	19.96	1.47	21.43	19.56	36.83	-1.44	-5.21	-23.34	17.02	-1.95	.07	36.81	.50	1	4.79	5.05			
44	35	79	11.33	1.68	13.01	16.49	36.06	-1.31	-4.38	-20.08	18.63	-1.89	.10	38.22	.50	1	4.82	5.06			
44	36	80	.53	1.78	2.31	18.76	35.26	-.64	-3.50	-21.75	15.26	-1.76	.12	39.55	.52	1	4.86	5.07			
44	37	81	-7.05	1.84	-5.21	15.60	34.36	-.45	-2.58	-18.47	16.77	-1.69	.12	40.83	.52	1	4.89	5.08			
44	38	82	-16.80	1.86	-14.94	17.80	33.40	.25	-1.66	-20.00	13.43	-1.60	.12	42.03	.52	1	4.92	5.08			
44	39	83	-23.41	1.84	-21.57	14.70	32.50	.49	-.69	-16.68	14.91	-1.62	.11	43.17	.54	1	4.95	5.09			
44	40	84	-32.18	1.77	-30.41	16.91	31.61	1.22	.28	-18.14	11.62	-1.65	.10	44.25	.54	1	4.99	5.10			
44	41	85	-37.87	1.60	-36.27	13.93	30.84	1.53	1.35	-14.85	13.11	-1.86	.06	45.27	.54	1	5.02	5.11			
44	42	86	-45.71	1.26	-44.45	16.25	30.18	2.35	2.47	-16.38	9.58	-2.17		46.23	.56	1	5.05	5.12			
44	43	87	-50.53	.82	-49.71	13.33	29.59	2.97	4.30	-13.24	10.81	-2.63		47.14	.56	1	5.08	5.13			
44	44	88	-57.49	.30	-57.19	15.56	28.89	3.95	5.88	-14.79	7.05	-3.06		47.99	.56	1	5.11	5.14			
44	45	89	-60.81	-.30	-61.11	11.99	27.55	4.15	6.76	-11.02	8.65	-3.54		48.80	.56	1	5.14	5.15			
44	46	90	-66.29	-.98	-67.27	14.23	26.22	4.79	7.60	-12.26	5.62	-3.81		49.55	.58	1	5.17	5.16			
44	47	91	-68.87	-1.73	-70.60	11.40	25.63	5.00	8.46	-8.90	7.22	-4.09		50.25	.58	1	5.20	5.17			
44	48	92	-73.59	-2.55	-76.14	13.62	25.02	5.62	9.28	-10.47	4.24	-4.32		50.90	.58	1	5.23	5.17			
44	49	93	-75.46	-3.45	-78.91	10.84	24.46	5.81	10.12	-7.49	5.84	-4.62		51.51	.58	1	5.25	5.18	-77.42	-1.96	1.49
44	50	94	-79.47	-4.41	-83.88	13.05	23.88	6.43	10.92	-9.06	.75	-4.86		52.08	.60	1	5.28	5.19	-82.57	-3.10	1.31
44	51	95	-80.66	-3.31	-83.97	8.16	21.21	6.62	11.78	-3.99	2.37	-3.03		52.60	.60	1	5.31	5.20	-83.45	-2.79	.52
44	52	96	-84.00	-2.30	-86.30	10.40	18.56	7.24	12.60	-5.59	-.51	-1.19		53.07	.60	1	5.33	5.21	-86.07	-2.07	.23
44	53	97	-84.56	-1.38	-85.94	7.72	18.11	7.44	13.43	-2.71	1.11	-1.59		53.51	.60	1	5.36	5.22	-86.04	-1.48	-.10
44	54	98	-87.25	-.55	-87.80	9.93	17.65	8.04	14.23	-4.30	-1.73	-1.95		53.90	.60	1	5.39	5.23	-88.22	-.97	-.42
44	55	99	-87.21	.19	-87.02	7.29	17.23	8.24	15.04	-1.47	-.12	-2.36		54.26	.60	1	5.41	5.24	-87.62	-.41	-.60
44	56	100	-89.28	.85	-88.43	9.49	16.78	8.82	15.78	-3.05	-2.81	-2.71		54.59	.60	1	5.44	5.24	-89.22	.06	-.79
44	57	101	-88.67	1.42	-87.25	6.89	16.38	8.91	16.30	-.26	-.91	-3.12		54.87	.60	1	5.46	5.25	-87.96	.71	-.71
44	58	102	-90.16	1.81	-88.35	9.18	16.06	9.30	16.78	-1.96	-3.44	-3.55	.09	55.14	.62	1	5.49	5.26	-89.10	1.06	-.75
44	59	103	-89.01	1.98	-87.03	6.75	15.93	9.41	17.42	.55	-1.76	-3.93	.11	55.35	.62	1	5.51	5.27	-87.25	1.76	-.22
44	60	104	-89.95	2.06	-87.89	8.94	15.68	9.91	18.08	-1.24	-4.47	-4.17	.13	55.54	.62	1	5.54	5.28	-88.09	1.86	-.20
44	61	105	-88.27	2.08	-86.19	6.37	15.31	10.05	18.78	1.41	-2.89	-4.43	.14	55.69	.62	1	5.56	5.29	-85.93	2.34	.26
44	62	106	-88.69	2.09	-86.60	8.48	14.85	10.59	19.48	-.19	-5.62	-4.63	.14	55.81	.62	1	5.59	5.30	-86.32	2.37	.28
44	63	107	-86.52	2.08	-84.44	5.91	14.39	10.75	20.19	2.53	-4.06	-4.88	.15	55.90	.62	1	5.61	5.30	-83.71	2.81	.73
44	64	108	-86.43	2.07	-84.36	7.99	13.90	11.28	20.89	.99	-6.78	-5.08	.15	55.97	.62	1	5.63	5.31	-83.71	2.72	.65
44	65	109	-83.80	2.05	-81.75	5.45	13.45	11.45	21.62	3.69	-5.25	-5.35	.15	56.00	.62	1	5.66	5.32			
44	66	110	-83.23	2.04	-81.19	7.52	12.97	11.98	22.31	2.17	-7.93	-5.56	.15	56.01	.62	1	5.68	5.33			
44	67	111	-80.15	2.02	-78.13	5.01	12.53	12.16	23.04	4.86	-6.40	-5.85	.14	55.99	.62	1	5.70	5.34			
44	68	112	-79.12	1.99	-77.13	7.07	12.08	12.69	23.74	3.35	-9.05	-6.10	.14	55.95	.62	1	5.73	5.35			
44	69	113	-75.61	1.94	-73.67	4.61	11.68	12.88	24.48	6.00	-7.51	-6.43	.13	55.88	.62	1	5.75	5.36			
44	70	114	-74.15	1.85	-72.30	6.69	11.31	13.43	25.22	4.49	-10.13	-6.76	.11	55.79	.62	1	5.77	5.36			
44	71	115	-70.23	1.70	-68.53	4.31	11.00	13.66	26.00	7.12	-8.57	-7.19	.09	55.67	.62	1	5.79	5.37			
44	72	116	-68.35	1.39	-66.96	6.50	10.81	14.29	26.86	5.60	-11.09	-7.73	.03	55.54	.62	1	5.82	5.38			
44	73	117	-64.05	.88	-63.17	4.27	10.78	14.59	27.82	8.11	-9.50	-8.49		55.38	.62	1	5.84	5.39			
44	74	118	-61.77	.32	-61.45	6.36	10.63	15.07	28.53	6.53	-11.99	-9.20		55.19	.62	1	5.86	5.40			
44	75	119	-57.09	-.29	-57.38	4.01	10.36	15.21	29.16	9.03	-10.38	-9.88		54.99	.62	1	5.88	5.41			
44	76	120	-54.43	-.96	-55.39	6.08	10.09	15.68	29.78	7.45	-12.84	-10.32		54.80	.64	1	5.90	5.42			
44	77	121	-49.40	-1.68	-51.08	3.76	9.84	15.83	30.40	9.91	-11.25	-10.71		54.56	.64	1	5.92	5.42			
44	78	122	-46.37	-2.46	-48.83	5.82	9.58	16.29	31.01	8.33	-13.69	-11.06		54.30	.64	1	5.94	5.43			
44	79	123	-40.99	-3.28	-44.27	3.52	9.33	16.42	31.61	10.77	-12.09	-11.44		54.02	.64	1	5.96	5.44			
44	80	124	-37.61	-4.15	-41.76	5.56	9.08	16.87	32.19	9.20	-14.50	-11.79		53.73	.64	1	5.98	5.45			
44	81	125	-31.91	-5.07	-36.98	3.29	8.85	17.00	32.79	11.60	-12.91	-12.17		53.41	.64	1	6.01	5.46			
44	82	126	-28.20	-6.03	-34.23	5.32	8.61	17.45	33.36	10.03	-17.41	-12.51		53.08	.64	1	6.03	5.47			
44	83	127	-22.18	-4.93	-27.11	.96	6.27	17.58	33.96	14.53	-15.80	-10.77		52.73	.64	1	6.05	5.48			
44	84	128	-18.14	-3.90	-22.04	3.00	3.96	18.03	34.54	12.95	-18.14	-9.02		52.37	.64	1	6.07	5.49			
44	85	129	-11.83	-2.94	-14.77	.79	3.80	18.16	35.13	15.29	-16.56	-9.46		51.99	.64	1	6.09	5.49			
44	86	130	-7.48	-2.04	-9.52	2.82	3.61	18.60	35.70	13.72	-18.87	-9.86		51.60	.64	1	6.11	5.50			

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
44	87	131	-.88	-1.20	-2.08	.63	3.45	18.73	36.27	16.04	-17.28	-10.29		51.19	.64	1	6.12	5.51			
44	88	132	3.77	-.43	3.34	2.65	3.28	19.15	36.82	14.47	-19.58	-10.68		50.77	.64	1	6.14	5.52			
44	89	133	10.64	.28	10.92	.48	3.14	19.28	37.39	16.75	-17.94	-11.11		50.34	.64	1	6.16	5.53			
44	90	134	15.58	.94	16.52	2.48	2.96	19.63	37.66	15.20	-19.79	-11.49		49.89	.64	1	6.18	5.54			
44	91	135	22.72	1.37	24.09	.50	2.98	19.52	37.85	17.30	-17.85	-12.07	.09	49.43	.64	1	6.20	5.55			
44	92	136	27.93	1.48	29.41	2.74	3.25	19.82	38.22	15.31	-19.98	-12.61	.13	48.96	.64	1	6.22	5.55			
44	93	137	35.32	1.47	36.79	.69	3.44	19.89	38.67	17.29	-18.38	-13.00	.14	48.42	.62	1	6.24	5.56			
44	94	138	40.80	1.41	42.21	2.66	3.34	20.25	39.12	15.64	-20.60	-13.26	.15	47.92	.62	1	6.26	5.57			
44	95	139	48.44	1.32	49.76	.52	3.18	20.34	39.61	17.85	-19.06	-13.55	.16	47.41	.62	1	6.28	5.58			
44	96	140	54.17	1.22	55.39	2.44	2.96	20.72	40.08	16.30	-21.31	-13.78	.16	46.89	.62	1	6.30	5.59			
44	97	141	62.04	1.12	63.16	.29	2.74	20.83	40.58	18.53	-19.80	-14.05	.17	46.36	.62	1	6.31	5.60			
44	98	142	68.02	1.03	69.05	2.19	2.48	21.20	41.05	17.03	-22.03	-14.27	.17	45.82	.62	1	6.33	5.61			
44	99	143	76.12	.95	77.07	.05	2.24	21.30	41.54	19.26	-20.52	-14.52	.17	45.27	.62	1	6.35	5.62			
44	100	144	82.33	.88	83.21	1.93	1.98	21.67	42.01	17.77	-22.74	-14.74	.17	44.71	.62	1	6.37	5.62			
44	102	146	97.09	.77	97.86	1.68	1.49	22.14	42.97	18.50	-23.46	-15.21	.18	43.55	.62	1	6.41	5.64			
44	104	148	112.28	.72	113.00	1.43	1.00	22.61	43.91	19.23	-24.15	-15.68	.17	42.36	.62	1	6.44	5.66			
44	106	150	127.89	.73	128.62	1.19	.53	23.06	44.83	19.95	-24.82	-16.14	.17	41.14	.62	1	6.48	5.68			
44	108	152	143.89	.79	144.68	.96	.08	23.52	45.75	20.65	-25.49	-16.62	.17	39.89	.62	1	6.51	5.69			
44	110	154	160.28	.88	161.16	.75	-.34	23.98	46.67	21.33	-26.15	-17.12	.16	38.60	.62	1	6.55	5.71			
44	112	156	177.05	.98	178.03	.56	-.72	24.44	47.59	22.01	-26.76	-17.65	.15	37.29	.62	1	6.58	5.73			
44	114	158	194.17	.95	195.12	.47	-.95	24.97	48.61	22.64	-27.33	-18.35	.11	35.95	.62	1	6.61	5.75			
44	116	160	211.64	.13	211.77	.82	-.51	25.73	50.11	23.13	-27.71	-19.81		34.52	.60	1	6.65	5.77			
44	118	162	229.45	-1.14	228.31	.72	-.40	26.13	50.95	23.64	-28.19	-21.42		33.13	.60	1	6.68	5.78			
44	120	164	247.58	-2.56	245.02	.63	-.57	26.52	51.75	24.13	-28.66	-22.09		31.72	.60	1	6.71	5.80			
44	122	166	266.03	-4.12	261.91	.54	-.74	26.90	52.51	24.62	-29.12	-22.70		30.29	.60	1	6.75	5.82			
44	124	168	284.78	-5.81	278.97	.45	-.91	27.27	53.26	25.10	-29.56	-23.30		28.83	.60	1	6.78	5.84			
44	126	170	303.83	-7.64	296.19	.36	-1.08	27.63	54.00	25.57	-32.01	-23.89		27.29	.58	1	6.81	5.85			
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX																					
45	37	82	3.58	1.48	5.06	16.28	35.14	-2.98	-3.43	-16.70	20.00	-1.77	.06	39.15	.50	1	4.90	5.11			
45	38	83	-6.38	1.49	-4.89	18.02	34.30	-2.77	-2.51	-18.25	16.68	-1.70	.06	40.40	.52	1	4.93	5.12			
45	39	84	-13.70	1.43	-12.27	15.46	33.47	-2.01	-1.52	-15.01	18.14	-1.75	.03	41.59	.52	1	4.97	5.13			
45	40	85	-22.68	1.26	-21.42	17.22	32.67	-1.70	-.48	-16.56	14.85	-1.86		42.73	.52	1	5.00	5.14			
45	41	86	-29.06	.99	-28.07	14.71	31.94	-.91	.62	-13.40	16.37	-2.12		43.79	.54	1	5.03	5.15			
45	42	87	-37.12	.65	-36.47	16.48	31.19	-.68	1.66	-14.95	13.23	-2.41		44.80	.54	1	5.06	5.15			
45	43	88	-42.61	.22	-42.39	14.00	30.47	-.02	2.94	-11.82	14.80	-2.78		45.76	.54	1	5.09	5.16			
45	44	89	-49.79	-.30	-50.09	15.76	29.77	.19	4.14	-13.39	11.02	-3.13		46.67	.54	1	5.12	5.17			
45	45	90	-54.12	-.89	-55.01	12.99	28.75	1.19	5.34	-9.98	12.26	-3.41		47.51	.56	1	5.15	5.18			
45	46	91	-60.14	-1.56	-61.70	14.76	27.76	1.72	6.52	-11.22	8.89	-3.60		48.31	.56	1	5.18	5.19			
45	47	92	-63.37	-2.30	-65.67	12.04	26.80	2.37	7.36	-7.55	10.47	-3.85		49.06	.56	1	5.21	5.20			
45	48	93	-68.30	-3.12	-71.42	13.81	25.86	2.56	8.18	-9.13	7.49	-4.08		49.76	.56	1	5.24	5.21			
45	49	94	-70.81	-4.00	-74.81	11.46	25.28	3.19	9.00	-6.17	9.07	-4.34		50.41	.56	1	5.26	5.22			
45	50	95	-75.02	-4.96	-79.98	13.23	24.70	3.38	9.81	-7.75	3.99	-4.59		51.02	.58	1	5.29	5.22	-78.45	-3.43	1.53
45	51	96	-76.85	-3.86	-80.71	8.80	22.04	4.02	10.65	-2.71	5.58	-2.75		51.59	.58	1	5.32	5.23	-79.63	-2.78	1.08
45	52	97	-80.38	-2.85	-83.23	10.59	19.39	4.22	11.47	-4.30	2.71	-.91		52.11	.58	1	5.35	5.24	-82.55	-2.17	.68
45	53	98	-81.56	-1.93	-83.49	8.33	18.93	4.84	12.28	-1.44	4.31	-1.28		52.59	.58	1	5.37	5.25	-83.17	-1.61	.32
45	54	99	-84.45	-1.10	-85.55	10.13	18.46	5.05	13.08	-3.04	1.46	-1.63		53.04	.60	1	5.40	5.26	-85.57	-1.12	-.02
45	55	100	-85.01	-.36	-85.37	7.90	18.02	5.65	13.88	-.21	3.06	-2.01		53.44	.60	1	5.42	5.27	-85.59	-.58	-.22
45	56	101	-87.28	.29	-86.99	9.68	17.58	5.84	14.67	-1.82	.26	-2.37		53.80	.60	1	5.45	5.28	-87.40	-.12	-.41
45	57	102	-87.26	.87	-86.39	7.48	17.16	6.44	15.35	.97	1.97	-2.75		54.13	.60	1	5.48	5.28	-86.78	.48	-.39
45	58	103	-88.94	1.36	-87.58	9.26	16.74	6.51	15.82	-.63	-.55	-3.10		54.42	.60	1	5.50	5.29	-88.02	.92	-.44
45	59	104	-88.37	1.72	-86.65	7.15	16.40	6.92	16.31	2.06	1.24	-3.45	.08	54.68	.60	1	5.53	5.30	-86.94	1.43	-.29
45	60	105	-89.49	1.89	-87.60	9.02	16.16	7.00	16.91	.30	-1.41	-3.69	.10	54.90	.60	1	5.55	5.31	-87.85	1.64	-.25
45	61	106	-88.39	1.97	-86.42	6.89	15.91	7.52	17.58	2.82	.18	-3.93	.12	55.09	.60	1	5.57	5.32	-86.36	2.03	.06
45	62	107	-88.98	2.01	-86.97	8.63	15.51	7.66	18.25	1.14	-2.53	-4.12	.13	55.26	.60	1	5.60	5.33	-86.86	2.12	.11
45	63	108	-87.37	2.02	-85.35	6.45	15.08	8.19	18.95	3.79	-.98	-4.35	.13	55.39	.60	1	5.62	5.34	-85.03	2.34	.32
45	64	109	-87.46	2.02	-85.44	8.16	14.61	8.36	19.64	2.22	-3.69	-4.56	.13	55.50	.62	1	5.65	5.34	-85.11	2.35	.33
45	65	110	-85.37	2.01	-83.36	6.00	14.15	8.90	20.35	4.90	-2.17	-4.80	.13	55.58	.62	1	5.67	5.35	-82.94	2.43	.42
45	66	111	-84.97	1.99	-82.98	7.69	13.69	9.08	21.06	3.38	-4.85	-5.03	.13	55.62	.62	1	5.69	5.36			
45	67	112	-82.43	1.95	-80.48	5.56	13.26	9.64	21.80	6.04	-3.34	-5.32	.12	55.64	.62	1	5.71	5.37			
45	68	113	-81.57	1.89	-79.68	7.27	12.84	9.83	22.53	4.53	-6.01	-5.60	.12	55.63	.62	1	5.74	5.38			
45	69	114	-78.59	1.80	-76.79	5.19	12.46	10.41	23.29	7.18	-4.49	-5.95	.10	55.60	.62	1	5.76	5.39			
45	70	115	-77.29	1.63	-75.66	6.94	12.13	10.65	24.08	5.69	-7.12	-6.35	.08	55.54	.62	1	5.78	5.40			
45	71	116	-73.89	1.33	-72.56	4.98	11.92	11.31	24.97	8.31	-5.59	-6.90		55.46	.62	1	5.80	5.40			
45	72	117	-72.16	.88	-71.28	6.79	11.77	11.60	25.90	6.73	-8.12	-7.55		55.35	.62	1	5.83	5.41			
45	73	118	-68.36	.38	-67.98	4.77	11.57	12.10	26.69	9.24	-6.53	-8.24		55.22	.62	1	5.85	5.42			
45	74	119	-66.24	-.17	-66.41	6.50	11.27	12.26	27.32	7.66	-9.02	-8.87		55.07	.62	1	5.87	5.43			
45	75	120	-62.06	-.78	-62.84	4.50	11.00	12.75	27.96	10.14	-7.45	-9.40		54.90	.62	1	5.89	5.44			
45	76	121	-59.54	-1.45	-60.99	6.22	10.72	12.88	28.57	8.56	-9.91	-9.75		54.71	.62	1	5.91	5.45			
45	77	122	-55.00	-2.16	-57.16	4.24	10.46	13.37	29.19	11.01	-8.34	-10.12		54.50	.62	1	5.93	5.45			
45	78	123	-52.11	-2.93	-55.04	5.95	10.19	13.50	29.79	9.44	-10.77	-10.47		54.27	.62	1	5.95	5.46			
45	79	124	-47.22	-3.74	-50.96	3.99	9.95	13.98	30.40	11.86	-9.20	-10.84		54.02	.62	1	5.97	5.47			
45	80	125	-43.98	-4.60	-48.58	5.70	9.68	14.11	30.98	10.30	-11.60	-11.18		53.75	.62	1	5.99	5.48			
45	81	126	-38.75	-5.51	-44.26	3.75	9.45	14.57	31.57	12.69	-10.03	-11.55		53.46	.62	1	6.02	5.49			
45	82	127	-35.17	-6.47	-41.64	5.45	9.20	14.70	32.15	11.12	-14.52	-11.89		53.16	.62	1	6.04	5.50			
45	83	128	-29.61	-5.38	-34.99	1.42	6.87	15.16	32.75	15.59	-12.94	-10.15		52.84	.62	1	6.06	5.51			
45	84	129	-25.71	-4.35	-30.06	3.14	4.56	15.30	33.33	14.02	-15.29	-8.41		52.50	.62	1	6.08	5.51			
45	85	130	-19.85	-3.39	-23.24	1.25	4.39	15.76	33.92	16.35	-13.72	-8.84		52.15	.62	1	6.10	5.52			
45	86	131	-15.63	-2.49	-18.12	2.96	4.20	15.89	34.49	14.78	-16.03	-9.24		51.78	.62	1	6.12	5.53			
45	87	132	-9.47	-1.66	-11.13	1.08	4.04	16.33	35.06	17.09	-14.47	-9.66		51.40	.62	1	6.13	5.54			
45	88	133	-4.95	-.89	-5.84	2.78	3.86	16.46	35.62	15.52	-16.77	-10.05		51.00	.62	1	6.15	5.55			
45	89	134	1.50	-.17	1.33	.91	3.69	16.89	36.17	17.82	-15.18	-10.45		50.59	.62	1	6.17	5.56			
45	90	135	6.30	.48	6.78	2.61	3.53	17.02	36.66	16.24	-17.30	-10.85		50.17	.62	1	6.19	5.57			
45	91	136	13.02	1.08	14.10	.76	3.37	17.28	36.79	18.51	-15.31	-11.24	.02	49.73	.62	1	6.21	5.57			
45	92	137	18.11	1.39	19.50	2.66	3.43	17.19	37.02	16.72	-17.29	-11.78	.10	49.28	.62	1	6.23	5.58			
45	93	138	25.09	1.48	26.57	1.01	3.67	17.51	37.40	18.58	-15.63	-12.17	.12	48.81	.62	1	6.25	5.59			
45	94	139	30.45	1.47	31.92	2.72	3.73	17.57	37.83	16.78	-17.84	-12.45	.14	48.34	.62	1	6.27	5.60			

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
45	95	140	37.68	1.41	39.09	.89	3.62	17.95	38.30	18.91	-16.30	-12.73	.15	47.85	.62	1	6.29	5.61			
45	96	141	43.29	1.34	44.63	2.53	3.43	18.05	38.77	17.33	-18.53	-12.97	.15	47.35	.62	1	6.31	5.62			
45	97	142	50.77	1.26	52.03	.68	3.20	18.43	39.25	19.55	-17.02	-13.21	.16	46.84	.62	1	6.32	5.63			
45	98	143	56.63	1.18	57.81	2.29	2.96	18.53	39.73	18.03	-19.26	-13.44	.16	46.32	.62	1	6.34	5.64			
45	99	144	64.34	1.10	65.44	.44	2.73	18.91	40.22	20.24	-17.77	-13.68	.17	45.79	.62	1	6.36	5.64			
45	100	145	70.44	1.04	71.48	2.04	2.47	19.02	40.69	18.74	-19.99	-13.90	.17	45.25	.62	1	6.38	5.65			
45	101	146	78.38	.98	79.36	.19	2.23	19.39	41.17	20.96	-18.50	-14.14	.17	44.69	.62	1	6.40	5.66			
45	102	147	84.71	.94	85.65	1.78	1.97	19.50	41.64	19.47	-20.71	-14.37	.17	44.13	.62	1	6.41	5.67			
45	104	149	99.42	.89	100.31	1.53	1.48	19.98	42.59	20.19	-21.42	-14.83	.17	42.98	.62	1	6.45	5.69			
45	106	151	114.55	.90	115.45	1.29	1.01	20.46	43.52	20.90	-22.12	-15.30	.17	41.80	.62	1	6.49	5.70			
45	108	153	130.09	.94	131.03	1.07	.56	20.93	44.46	21.59	-22.81	-15.79	.16	40.58	.62	1	6.52	5.72			
45	110	155	146.03	1.01	147.04	.86	.14	21.41	45.39	22.28	-23.48	-16.30	.15	39.27	.60	1	6.55	5.74			
45	112	157	162.35	1.05	163.40	.69	-.21	21.91	46.36	22.95	-24.12	-16.88	.13	37.98	.60	1	6.59	5.76			
45	114	159	179.04	.81	179.85	.70	-.30	22.56	47.53	23.59	-24.67	-17.75	.06	36.67	.60	1	6.62	5.77			
45	116	161	196.08	-.27	195.81	.91	.18	23.25	48.98	24.12	-25.15	-19.41		35.34	.60	1	6.66	5.79			
45	118	163	213.47	-1.54	211.93	.81	.02	23.66	49.80	24.62	-25.65	-20.71		33.97	.60	1	6.69	5.81			
45	120	165	231.19	-2.94	228.25	.71	-.17	24.07	50.58	25.12	-26.13	-21.32		32.59	.60	1	6.72	5.83			
45	122	167	249.24	-4.49	244.75	.61	-.36	24.46	51.35	25.61	-26.60	-21.93		31.18	.60	1	6.75	5.84			
45	124	169	267.59	-6.18	261.41	.53	-.52	24.85	52.12	26.07	-27.07	-22.54		29.68	.58	1	6.79	5.86			
45	126	171	286.25	-8.00	278.25	.44	-.69	25.22	52.86	26.53	-29.53	-23.12		28.23	.58	1	6.82	5.88			

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46	32	78	65.88	-.89	64.99	21.40	40.57	-3.00	-8.30	-26.96	20.22	-2.09		29.86	.44	2	4.74	5.09			
46	33	79	55.19	-.34	54.85	18.21	39.62	-2.79	-7.35	-23.57	21.76	-2.11		31.51	.44	2	4.78	5.10			
46	34	80	42.38	.09	42.47	20.45	38.67	-2.09	-6.46	-25.09	18.41	-2.07		33.06	.48	1	4.81	5.11			
46	35	81	32.81	.42	33.23	17.32	37.77	-1.89	-5.65	-21.75	19.97	-2.12		34.57	.48	1	4.85	5.12			
46	36	82	21.12	.64	21.76	19.54	36.86	-1.21	-4.86	-23.27	16.70	-2.09		36.02	.48	1	4.88	5.13			
46	37	83	12.60	.76	13.36	16.47	36.02	-1.01	-4.00	-19.99	18.25	-2.07		37.39	.48	1	4.91	5.14			
46	38	84	1.96	.78	2.74	18.69	35.16	-.34	-3.11	-21.52	15.01	-2.00		38.69	.50	1	4.95	5.15			
46	39	85	-5.57	.71	-4.86	15.67	34.36	-.12	-2.13	-18.30	16.56	-2.07		39.93	.50	1	4.98	5.16			
46	40	86	-15.22	.54	-14.68	17.89	33.56	.54	-1.15	-19.83	13.39	-2.16		41.11	.52	1	5.01	5.17			
46	41	87	-21.81	.29	-21.52	14.92	32.80	.74	-.17	-16.66	14.95	-2.37		42.23	.52	1	5.04	5.18			
46	42	88	-30.52	-.05	-30.57	17.12	32.04	1.39	.70	-18.19	11.83	-2.58		43.29	.52	1	5.07	5.19			
46	43	89	-36.23	-.47	-36.70	14.21	31.32	1.59	1.58	-15.08	13.39	-2.86		44.30	.52	1	5.10	5.20			
46	44	90	-44.05	-.98	-45.03	16.40	30.60	2.23	2.42	-16.62	9.98	-3.01		45.24	.54	1	5.13	5.20			
46	45	91	-48.92	-1.56	-50.48	13.53	29.92	2.76	3.95	-13.54	11.22	-3.20		46.14	.54	1	5.16	5.21			
46	46	92	-55.90	-2.22	-58.12	15.71	29.24	3.71	5.43	-15.08	7.55	-3.36		46.99	.54	1	5.19	5.22			
46	47	93	-59.34	-2.95	-62.29	12.24	27.95	3.91	6.27	-11.42	9.13	-3.60		47.78	.54	1	5.22	5.23			
46	48	94	-64.89	-3.76	-68.65	14.43	26.67	4.52	7.08	-12.65	6.17	-3.81		48.53	.56	1	5.25	5.24			
46	49	95	-67.60	-4.63	-72.23	11.66	26.09	4.70	7.90	-9.37	7.75	-4.06		49.23	.56	1	5.28	5.25			
46	50	96	-72.42	-5.57	-77.99	13.83	25.49	5.30	8.69	-10.92	2.72	-4.27		49.88	.56	1	5.30	5.26			
46	51	97	-74.45	-4.48	-78.93	9.00	22.84	5.51	9.54	-5.90	4.30	-2.45		50.49	.56	1	5.33	5.27	-77.75	-3.30	1.18
46	52	98	-78.58	-3.47	-82.05	11.20	20.20	6.11	10.33	-7.47	1.45	-.59		51.05	.56	1	5.36	5.27	-81.37	-2.79	.68
46	53	99	-79.95	-2.56	-82.51	8.53	19.73	6.30	11.15	-4.61	3.04	-.96		51.58	.58	1	5.38	5.28	-82.16	-2.21	.35
46	54	100	-83.42	-1.73	-85.15	10.71	19.24	6.89	11.93	-6.18	.23	-1.28		52.07	.58	1	5.41	5.29	-85.19	-1.77	-.04
46	55	101	-84.18	-.99	-85.17	8.09	18.80	7.08	12.73	-3.36	1.82	-1.66		52.51	.58	1	5.44	5.30	-85.41	-1.23	-.24
46	56	102	-87.03	-.33	-87.36	10.26	18.35	7.67	13.51	-4.93	-.97	-1.99		52.92	.58	1	5.46	5.31	-87.93	-.90	-.57
46	57	103	-87.20	.24	-86.96	7.67	17.93	7.86	14.29	-2.16	.62	-2.37		53.29	.58	1	5.49	5.32	-87.46	-.26	-.50
46	58	104	-89.44	.74	-88.70	9.82	17.48	8.41	14.92	-3.72	-2.05	-2.69		53.62	.58	1	5.51	5.32	-89.41	.03	-.71
46	59	105	-89.05	1.15	-87.90	7.26	17.09	8.53	15.45	-.98	-.30	-3.08		53.93	.60	1	5.54	5.33	-88.41	.64	-.51
46	60	106	-90.73	1.49	-89.24	9.41	16.68	8.92	15.93	-2.56	-2.83	-3.31	.03	54.19	.60	1	5.56	5.34	-89.90	.83	-.66
46	61	107	-89.81	1.70	-88.11	6.95	16.36	8.99	16.50	.09	-1.14	-3.51	.08	54.42	.60	1	5.58	5.35	-88.37	1.44	-.26
46	62	108	-90.94	1.80	-89.14	9.10	16.05	9.46	17.12	-1.57	-3.79	-3.67	.09	54.62	.60	1	5.61	5.36	-89.53	1.41	-.39
46	63	109	-89.51	1.85	-87.66	6.59	15.69	9.60	17.80	1.02	-2.22	-3.89	.10	54.79	.60	1	5.63	5.37	-87.61	1.90	.05
46	64	110	-90.13	1.87	-88.26	8.67	15.26	10.11	18.47	-.58	-4.90	-4.08	.11	54.93	.60	1	5.66	5.38	-88.34	1.79	-.08
46	65	111	-88.22	1.86	-86.36	6.17	14.84	10.29	19.19	2.05	-3.37	-4.34	.11	55.04	.60	1	5.68	5.38	-86.02	2.20	.34
46	66	112	-88.34	1.82	-86.52	8.23	14.40	10.82	19.90	.52	-6.04	-4.58	.10	55.12	.60	1	5.70	5.39	-86.28	2.06	.24
46	67	113	-85.96	1.76	-84.20	5.76	13.99	11.01	20.65	3.21	-4.53	-4.88	.09	55.17	.60	1	5.72	5.40			
46	68	114	-85.62	1.64	-83.98	7.84	13.61	11.59	21.42	1.72	-7.19	-5.21	.08	55.20	.60	1	5.75	5.41			
46	69	115	-82.80	1.45	-81.35	5.45	13.29	11.85	22.25	4.36	-5.70	-5.64	.04	55.20	.60	1	5.77	5.42			
46	70	116	-82.00	1.13	-80.87	7.59	13.04	12.51	23.15	2.81	-8.31	-6.16		55.17	.60	1	5.79	5.43			
46	71	117	-78.76	.75	-78.01	5.21	12.80	12.74	24.05	5.35	-6.73	-6.76		55.12	.60	1	5.81	5.43			
46	72	118	-77.53	.31	-77.22	7.28	12.49	13.23	24.83	3.79	-9.24	-7.35		55.08	.62	1	5.84	5.44			
46	73	119	-73.89	-.18	-74.07	4.93	12.20	13.38	25.48	6.30	-7.66	-7.96		54.98	.62	1	5.86	5.45			
46	74	120	-72.25	-.73	-72.98	6.98	11.90	13.86	26.11	4.74	-10.14	-8.44		54.86	.62	1	5.88	5.46			
46	75	121	-68.22	-1.34	-69.56	4.65	11.63	14.01	26.75	7.21	-8.57	-8.82		54.72	.62	1	5.90	5.47			
46	76	122	-66.18	-1.99	-68.17	6.69	11.33	14.47	27.36	5.66	-11.01	-9.15		54.56	.62	1	5.92	5.48			
46	77	123	-61.78	-2.70	-64.48	4.38	11.07	14.61	27.98	8.11	-9.44	-9.52		54.38	.62	1	5.94	5.48			
46	78	124	-59.36	-3.46	-62.82	6.41	10.79	15.07	28.58	6.56	-11.86	-9.85		54.18	.62	1	5.96	5.49			
46	79	125	-54.61	-4.27	-58.88	4.13	10.54	15.21	29.19	8.98	-10.30	-10.23		53.96	.62	1	5.98	5.50			
46	80	126	-51.83	-5.12	-56.95	6.15	10.27	15.66	29.77	7.43	-12.69	-10.55		53.72	.62	1	6.00	5.51			
46	81	127	-46.74	-6.03	-52.77	3.89	10.04	15.80	30.37	9.82	-11.13	-10.92		53.46	.62	1	6.03	5.52			
46	82	128	-43.61	-6.98	-50.59	5.89	9.78	16.24	30.94	8.27	-15.60	-11.25		53.19	.62	1	6.05	5.53			
46	83	129	-38.19	-5.89	-44.08	1.56	7.46	16.37	31.54	12.74	-14.02	-9.53		52.89	.62	1	6.07	5.54			
46	84	130	-34.73	-4.86	-39.59	3.59	5.15	16.82	32.12	11.18	-16.35	-7.79		52.58	.62	1	6.09	5.54			
46	85	131	-29.00	-3.90	-32.90	1.39	4.97	16.96	32.71	13.52	-14.78	-8.21		52.26	.62	1	6.11	5.55			
46	86	132	-25.21	-3.01	-28.22	3.39	4.78	17.39	33.28	11.96	-17.09	-8.60		51.92	.62	1	6.12	5.56			
46	87	133	-19.18	-2.17	-21.35	1.21	4.59	17.52	33.84	14.28	-15.52	-9.00		51.56	.62	1	6.14	5.57			
46	88	134	-15.08	-1.40	-16.48	3.20	4.41	17.94	34.39	12.73	-17.80	-9.38		51.19	.62	1	6.16	5.58			
46	89	135	-8.77	-.69	-9.46	1.05	4.25	18.07	34.96	15.02	-16.25	-9.80		50.80	.62	1	6.18	5.59			
46	90	136	-4.37	-.04	-4.41	3.02	4.07	18.48	35.50	13.47	-18.51	-10.17		50.40	.62	1	6.20	5.59			
46	91	137	2.22	.56	2.78	.88	3.90	18.61	35.88	15.74	-16.72	-10.57		49.99	.62	1	6.22	5.60			
46	92	138	6.90	1.09	7.99	2.86	3.74	18.80	35.99	14.19	-18.58	-10.95	.03	49.56	.62	1	6.24	5.61			
46	93	139	13.76	1.38	15.14	.93	3.78	18.72	36.23	16.24	-16.77	-11.37	.10	49.12	.62	1	6.26	5.62			
46	94	140	18.72	1.46	20.18	3.02	3.96	19.02	36.60	14.36	-18.91	-11.65	.12	48.67	.62	1	6.28	5.63			
46	95	141	25.83	1.47	27.30	.96	3.98	19.08	37.03	16.33	-17.33	-11.92	.14	48.20	.62	1	6.30	5.64			
46	96	142	31.05	1.43	32.48	2.89	3.84	19.44	37.48	14.69	-19.54	-12.15	.14	47.73	.62	1	6.31	5.65			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SADDLE DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
46	97	143	38.41	1.37	39.78	.77	3.66	19.53	37.96	16.86	-18.03	-12.40	.15	47.24	.62	1	6.33	5.65			
46	98	144	43.89	1.31	45.20	2.66	3.42	19.90	38.42	15.33	-20.24	-12.61	.16	46.74	.62	1	6.35	5.66			
46	99	145	51.49	1.25	52.74	.53	3.19	19.99	38.91	17.54	-18.74	-12.85	.16	46.23	.62	1	6.37	5.67			
46	100	146	57.21	1.19	58.40	2.41	2.94	20.37	39.38	16.04	-20.96	-13.07	.16	45.70	.62	1	6.39	5.68			
46	101	147	65.04	1.14	66.18	.29	2.70	20.47	39.87	18.25	-19.47	-13.31	.16	45.17	.62	1	6.41	5.69			
46	102	148	71.00	1.10	72.10	2.15	2.45	20.84	40.34	16.77	-21.67	-13.53	.16	44.63	.62	1	6.42	5.70			
46	103	149	79.05	1.08	80.13	.05	2.20	20.94	40.81	18.98	-20.18	-13.76	.16	44.08	.62	1	6.44	5.71			
46	104	150	85.24	1.06	86.30	1.90	1.95	21.30	41.28	17.51	-22.37	-13.99	.16	43.46	.60	1	6.46	5.71			
46	106	152	99.91	1.06	100.97	1.66	1.47	21.77	42.22	18.23	-23.06	-14.46	.16	42.31	.60	1	6.49	5.73			
46	108	154	115.00	1.08	116.08	1.43	1.03	22.24	43.18	18.94	-23.75	-14.96	.15	41.13	.60	1	6.53	5.75			
46	110	156	130.50	1.11	131.61	1.22	.62	22.72	44.13	19.66	-24.41	-15.49	.14	39.91	.60	1	6.56	5.77			
46	112	158	146.38	1.04	147.42	1.10	.33	23.27	45.18	20.37	-25.06	-16.17	.11	38.66	.60	1	6.60	5.78			
46	114	160	162.64	.37	163.01	1.32	.55	24.13	46.69	21.03	-25.63	-17.44		37.38	.60	1	6.63	5.80			
46	116	162	179.27	-.73	178.54	1.23	.62	24.56	47.81	21.58	-26.13	-19.01		36.07	.60	1	6.66	5.82			
46	118	164	196.25	-1.99	194.26	1.12	.42	24.96	48.63	22.09	-26.63	-19.94		34.74	.60	1	6.70	5.84			
46	120	166	213.57	-3.38	210.19	1.02	.22	25.35	49.41	22.61	-27.10	-20.54		33.38	.60	1	6.73	5.85			
46	122	168	231.22	-4.92	226.30	.92	.03	25.74	50.19	23.11	-27.57	-21.15		31.93	.58	1	6.76	5.87			
46	124	170	249.19	-6.60	242.59	.82	-.15	26.12	50.96	23.60	-28.03	-21.75		30.52	.58	1	6.79	5.89			
46	126	172	267.46	-8.41	259.05	.74	-.32	26.49	51.71	24.07	-30.49	-22.34		29.10	.58	1	6.83	5.90			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SADDLE DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
47	39	86	5.24	-.08	5.16	16.35	35.24	-2.73	-2.85	-16.82	19.83	-2.32		38.19	.48	1	4.99	5.19			
47	40	87	-4.62	-.24	-4.86	18.09	34.44	-2.52	-1.99	-18.36	16.66	-2.40		39.41	.50	1	5.02	5.20			
47	41	88	-11.89	-.49	-12.38	15.59	33.68	-1.85	-1.11	-15.23	18.19	-2.53		40.58	.50	1	5.05	5.21			
47	42	89	-20.80	-.82	-21.62	17.31	32.90	-1.66	-.27	-16.75	15.08	-2.62		41.69	.50	1	5.08	5.22			
47	43	90	-27.18	-1.23	-28.41	14.86	32.18	-1.00	.59	-13.66	16.62	-2.77		42.74	.52	1	5.11	5.23			
47	44	91	-35.21	-1.73	-36.94	16.60	31.46	-.80	1.43	-15.21	13.54	-2.90		43.74	.52	1	5.14	5.24			
47	45	92	-40.73	-2.30	-43.03	14.17	30.76	-.16	2.60	-12.15	15.09	-3.06		44.68	.52	1	5.17	5.25			
47	46	93	-47.92	-2.95	-50.87	15.91	30.08	.04	3.75	-13.70	11.42	-3.21		45.57	.54	1	5.20	5.25			
47	47	94	-52.32	-3.67	-55.99	13.20	29.10	1.00	4.89	-10.38	12.65	-3.40		46.41	.54	1	5.23	5.26			
47	48	95	-58.40	-4.47	-62.87	14.94	28.14	1.51	6.03	-11.62	9.36	-3.59		47.20	.54	1	5.26	5.27			
47	49	96	-61.74	-5.33	-67.07	12.28	27.22	2.13	6.83	-8.04	10.93	-3.82		47.95	.54	1	5.29	5.28			
47	50	97	-66.76	-6.26	-73.02	14.02	26.30	2.32	7.62	-9.59	5.91	-4.03		48.65	.54	1	5.31	5.29			
47	51	98	-69.41	-5.17	-74.58	9.62	23.65	2.94	8.45	-4.61	7.47	-2.19		49.30	.56	1	5.34	5.30			
47	52	99	-73.73	-4.17	-77.90	11.39	21.02	3.14	9.25	-6.18	4.61	-.34		49.91	.56	1	5.37	5.31	-76.13	-2.40	1.77
47	53	100	-75.72	-3.25	-78.97	9.14	20.53	3.75	10.05	-3.34	6.19	-.69		50.48	.56	1	5.39	5.31	-77.89	-2.17	1.08
47	54	101	-79.38	-2.43	-81.81	10.91	20.05	3.94	10.84	-4.91	3.36	-1.00		51.00	.56	1	5.42	5.32	-81.01	-1.63	.80
47	55	102	-80.74	-1.69	-82.43	8.69	19.60	4.54	11.63	-2.12	4.93	-1.36		51.49	.56	1	5.45	5.33	-82.37	-1.63	.06
47	56	103	-83.77	-1.03	-84.80	10.45	19.13	4.73	12.39	-3.68	2.15	-1.68		51.94	.56	1	5.47	5.34	-84.78	-1.01	.02
47	57	104	-84.53	-.46	-84.99	8.26	18.71	5.32	13.18	-.93	3.72	-2.04		52.35	.56	1	5.50	5.35	-85.31	-.78	-.32
47	58	105	-86.96	.04	-86.92	10.01	18.26	5.50	13.92	-2.49	.98	-2.36		52.73	.58	1	5.52	5.36	-87.08	-.12	-.16
47	59	106	-87.14	.46	-86.68	7.83	17.84	6.07	14.61	.24	2.56	-2.71		53.07	.58	1	5.55	5.36	-86.93	.21	-.25
47	60	107	-89.00	.80	-88.20	9.59	17.43	6.25	15.18	-1.33	-.09	-3.05		53.37	.58	1	5.57	5.37	-88.41	.59	-.21
47	61	108	-88.64	1.08	-87.56	7.44	17.02	6.74	15.72	1.37	1.58	-3.33		53.64	.58	1	5.60	5.38	-87.61	1.03	-.05
47	62	109	-89.96	1.27	-88.69	9.19	16.64	6.83	16.30	-.22	-1.03	-3.51		53.88	.58	1	5.62	5.39	-88.72	1.24	-.03
47	63	110	-89.08	1.40	-87.68	7.07	16.26	7.31	16.91	2.44	.58	-3.69		54.09	.58	1	5.64	5.40	-87.46	1.62	.22
47	64	111	-89.87	1.46	-88.41	8.80	15.87	7.44	17.55	.88	-2.05	-3.87	.04	54.28	.60	1	5.67	5.41	-88.22	1.65	.19
47	65	112	-88.50	1.46	-87.04	6.70	15.51	7.98	18.26	3.50	-.52	-4.12	.04	54.42	.60	1	5.69	5.41	-86.58	1.92	.46
47	66	113	-88.80	1.39	-87.41	8.44	15.14	8.18	19.00	1.93	-3.20	-4.40		54.54	.60	1	5.71	5.42	-87.03	1.77	.38
47	67	114	-86.95	1.25	-85.70	6.36	14.80	8.78	19.80	4.52	-1.73	-4.76		54.63	.60	1	5.74	5.43	-85.01	1.94	.69
47	68	115	-86.77	1.06	-85.71	8.09	14.45	9.03	20.61	2.97	-4.36	-5.15		54.69	.60	1	5.76	5.44	-84.91	1.86	.80
47	69	116	-84.47	.80	-83.67	6.03	14.12	9.61	21.46	5.52	-2.80	-5.62		54.73	.60	1	5.78	5.45	-82.41	2.05	1.26
47	70	117	-83.84	.48	-83.36	7.75	13.79	9.78	22.29	3.96	-5.35	-6.11		54.74	.60	1	5.80	5.46			
47	71	118	-81.11	.11	-81.00	5.72	13.47	10.28	23.02	6.49	-3.78	-6.64		54.72	.60	1	5.82	5.46			
47	72	119	-80.04	-.33	-80.37	7.43	13.16	10.43	23.67	4.92	-6.30	-7.14		54.68	.60	1	5.85	5.47			
47	73	120	-76.90	-.82	-77.72	5.42	12.86	10.93	24.32	7.42	-4.74	-7.59		54.62	.60	1	5.87	5.48			
47	74	121	-75.41	-1.36	-76.77	7.13	12.55	11.08	24.94	5.87	-7.22	-7.91		54.53	.60	1	5.89	5.49			
47	75	122	-71.88	-1.96	-73.84	5.14	12.27	11.57	25.58	8.33	-5.67	-8.28		54.42	.60	1	5.91	5.50			
47	76	123	-69.99	-2.60	-72.59	6.83	11.96	11.71	26.18	6.79	-8.11	-8.60		54.29	.60	1	5.93	5.51			
47	77	124	-66.07	-3.31	-69.38	4.85	11.69	12.18	26.80	9.22	-6.56	-8.97		54.14	.60	1	5.95	5.51			
47	78	125	-63.81	-4.06	-67.87	6.56	11.42	12.33	27.41	7.66	-8.99	-9.31		53.97	.60	1	5.97	5.52			
47	79	126	-59.53	-4.86	-64.39	4.60	11.15	12.80	28.01	10.08	-7.44	-9.66		53.78	.60	1	5.99	5.53			
47	80	127	-56.89	-5.70	-62.59	6.28	10.87	12.93	28.59	8.54	-9.83	-9.98		53.57	.60	1	6.01	5.54			
47	81	128	-52.26	-6.60	-58.86	4.34	10.62	13.39	29.18	10.92	-8.28	-10.33		53.34	.60	1	6.03	5.55			
47	82	129	-49.27	-7.54	-56.81	6.02	10.36	13.52	29.75	9.38	-12.73	-10.65		53.09	.60	1	6.06	5.56			
47	83	130	-44.31	-6.45	-50.76	2.02	8.04	13.98	30.35	13.82	-11.17	-8.93		52.83	.60	1	6.08	5.56			
47	84	131	-40.99	-5.43	-46.42	3.73	5.75	14.13	30.94	12.25	-13.52	-7.21		52.54	.60	1	6.10	5.57			
47	85	132	-35.70	-4.48	-40.18	1.83	5.56	14.57	31.52	14.58	-11.96	-7.61		52.24	.60	1	6.11	5.58			
47	86	133	-32.05	-3.58	-35.63	3.52	5.35	14.70	32.09	13.03	-14.27	-7.99		51.93	.60	1	6.13	5.59			
47	87	134	-26.46	-2.75	-29.21	1.65	5.17	15.14	32.66	15.34	-12.72	-8.40		51.60	.60	1	6.15	5.60			
47	88	135	-22.50	-1.98	-24.48	3.34	4.99	15.28	33.22	13.78	-15.02	-8.78		51.25	.60	1	6.17	5.61			
47	89	136	-16.61	-1.27	-17.88	1.48	4.81	15.71	33.78	16.07	-13.47	-9.18		50.89	.60	1	6.19	5.61			
47	90	137	-12.34	-.62	-12.96	3.15	4.63	15.83	34.32	14.52	-15.74	-9.55		50.51	.60	1	6.21	5.62			
47	91	138	-6.17	-.02	-6.19	1.30	4.45	16.26	34.87	16.79	-14.18	-9.94		50.12	.60	1	6.23	5.63			
47	92	139	-1.62	.52	-1.10	2.98	4.28	16.39	35.18	15.24	-16.24	-10.31		49.72	.60	1	6.25	5.64			
47	93	140	4.83	1.00	5.83	1.14	4.12	16.60	35.32	17.48	-14.35	-10.69		49.30	.60	1	6.27	5.65			
47	94	141	9.66	1.31	10.97	2.93	4.07	16.50	35.52	15.82	-16.33	-10.96	.09	48.87	.60	1	6.29	5.66			
47	95	142	16.37	1.42	17.79	1.25	4.18	16.79	35.88	17.77	-14.69	-11.20	.11	48.42	.60	1	6.31	5.67			
47	96	143	21.47	1.45	22.92	2.94	4.20	16.85	36.29	15.96	-16.86	-11.42	.13	47.97	.60	1	6.32	5.67			
47	97	144	28.43	1.44	29.87	1.13	4.07	17.21	36.73	18.02	-15.33	-11.65	.14	47.50	.60	1	6.34	5.68			
47	98	145	33.80	1.40	35.20	2.74	3.87	17.29	37.19	16.44	-17.54	-11.86	.14	47.02	.60	1	6.36	5.69			
47	99	146	41.00	1.36	42.36	.91	3.65	17.66	37.66	18.60	-16.04	-12.09	.15	46.53	.60	1	6.38	5.70			
47	100	147	46.61	1.32	47.93	2.50	3.41	17.76	38.13	17.09	-18.25	-12.30	.15	46.03	.60	1	6.40	5.71			
47	101	148	54.05	1.28	55.33	.67	3.17	18.14	38.61	19.27	-16.78	-12.54	.15	45.51	.60	1	6.41	5.72			
47	102	149	59.91	1.25	61.16	2.25	2.91	18.24	39.07	17.80	-18.96	-12.74	.15	44.99	.60	1	6.43	5.72			
47	103	150	67.57	1.22	68.79	.43	2.68	18.62	39.56	19.97	-17.51	-12.99	.15	44.46	.60	1	6.45	5.73			
47	104	151	73.66	1.20	74.86	2.00	2.44	18.72	40.03	18.51	-19.69	-13.22	.15	43.92	.60	1	6.47	5.74			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
47	105	152	81.54	1.19	82.73	.20	2.21	19.11	40.52	20.68	-18.24	-13.47	.15	43.36	.60	1	6.49	5.75			
47	106	153	87.85	1.19	89.04	1.77	1.96	19.22	40.99	19.23	-20.40	-13.70	.15	42.80	.60	1	6.50	5.76			
47	108	155	102.48	1.18	103.66	1.55	1.53	19.71	41.96	19.95	-21.10	-14.21	.14	41.65	.60	1	6.54	5.78			
47	110	157	117.51	1.13	118.64	1.38	1.16	20.25	42.98	20.68	-21.81	-14.82	.12	40.47	.60	1	6.57	5.79			
47	112	159	132.95	.79	133.74	1.38	1.05	20.97	44.24	21.48	-22.52	-15.73	.03	39.25	.60	1	6.61	5.81			
47	114	161	148.77	-.15	148.62	1.43	1.26	21.68	45.81	22.03	-23.07	-17.21		38.01	.60	1	6.64	5.83			
47	116	163	164.97	-1.24	163.73	1.31	1.03	22.10	46.66	22.57	-23.58	-18.54		36.73	.60	1	6.67	5.84			
47	118	165	181.52	-2.49	179.03	1.21	.83	22.52	47.49	23.07	-24.10	-19.20		35.36	.58	1	6.71	5.86			
47	120	167	198.42	-3.88	194.54	1.10	.64	22.93	48.29	23.58	-24.60	-19.82		34.03	.58	1	6.74	5.88			
47	122	169	215.67	-5.41	210.26	.99	.43	23.32	49.06	24.08	-25.08	-20.42		32.67	.58	1	6.77	5.90			
47	124	171	233.24	-7.07	226.17	.90	.23	23.71	49.82	24.57	-25.55	-21.00		31.29	.58	1	6.80	5.91			
47	126	173	251.12	-8.87	242.25	.81	.06	24.10	50.58	25.04	-28.01	-21.59		29.82	.56	1	6.83	5.93			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
48	34	82	66.87	-1.63	65.24	21.32	40.45	-2.97	-8.18	-26.77	20.21	-2.18		29.05	.42	3	4.83	5.18			
48	35	83	56.38	-1.29	55.09	18.22	39.55	-2.77	-7.28	-23.48	21.74	-2.19		30.65	.42	3	4.87	5.19			
48	36	84	43.81	-1.06	42.75	20.41	38.63	-2.11	-6.41	-24.98	18.49	-2.15		32.17	.44	2	4.90	5.20			
48	37	85	34.39	-.93	33.46	17.36	37.78	-1.91	-5.52	-21.74	20.02	-2.20		33.64	.44	2	4.94	5.20			
48	38	86	22.88	-.89	21.99	19.55	36.91	-1.26	-4.67	-23.24	16.84	-2.20		35.02	.48	1	4.97	5.21			
48	39	87	14.46	-.95	13.51	16.55	36.09	-1.06	-3.79	-20.05	18.37	-2.28		36.36	.48	1	5.00	5.22			
48	40	88	3.95	-1.10	2.85	18.73	35.28	-.42	-2.94	-21.56	15.23	-2.32		37.63	.48	1	5.03	5.23			
48	41	89	-3.53	-1.34	-4.87	15.79	34.52	-.22	-2.07	-18.43	16.75	-2.44		38.85	.48	1	5.06	5.24			
48	42	90	-13.08	-1.66	-14.74	17.95	33.73	.41	-1.25	-19.94	13.67	-2.49		40.00	.50	1	5.10	5.25			
48	43	91	-19.66	-2.07	-21.73	15.05	33.01	.60	-.39	-16.85	15.21	-2.64		41.10	.50	1	5.13	5.26			
48	44	92	-28.32	-2.55	-30.87	17.21	32.27	1.23	.42	-18.37	12.17	-2.73		42.15	.50	1	5.16	5.27			
48	45	93	-34.05	-3.12	-37.17	14.36	31.58	1.42	1.27	-15.33	13.70	-2.90		43.13	.52	1	5.18	5.28			
48	46	94	-41.86	-3.76	-45.62	16.52	30.89	2.04	2.08	-16.86	10.38	-3.02		44.07	.52	1	5.21	5.29			
48	47	95	-46.78	-4.47	-51.25	13.71	30.22	2.54	3.54	-13.85	11.61	-3.20		44.96	.52	1	5.24	5.29			
48	48	96	-53.78	-5.25	-59.03	15.85	29.56	3.46	4.96	-15.38	8.04	-3.34		45.80	.52	1	5.27	5.30			
48	49	97	-57.32	-6.10	-63.42	12.47	28.31	3.64	5.77	-11.80	9.61	-3.56		46.58	.54	1	5.30	5.31			
48	50	98	-62.94	-7.02	-69.96	14.61	27.07	4.23	6.54	-13.02	4.62	-3.74		47.33	.54	1	5.33	5.32			
48	51	99	-65.79	-5.93	-71.72	9.83	24.44	4.43	7.37	-7.75	6.18	-1.91		48.02	.54	1	5.35	5.33			
48	52	100	-70.70	-4.93	-75.63	11.98	21.81	5.02	8.16	-9.30	3.34	-.06		48.68	.54	1	5.38	5.34			
48	53	101	-72.88	-4.02	-76.90	9.34	21.32	5.22	8.97	-6.46	4.91	-.40		49.29	.54	1	5.41	5.34	-75.48	-2.60	1.42
48	54	102	-77.12	-3.19	-80.31	11.49	20.82	5.79	9.73	-8.01	2.12	-.69		49.86	.56	1	5.43	5.35	-79.47	-2.35	.84
48	55	103	-78.67	-2.45	-81.12	8.88	20.37	5.99	10.53	-5.21	3.68	-1.03		50.39	.56	1	5.46	5.36	-80.38	-1.71	.74
48	56	104	-82.26	-1.80	-84.06	11.01	19.89	6.55	11.28	-6.76	.92	-1.33		50.88	.56	1	5.48	5.37	-84.01	-1.75	.05
48	57	105	-83.21	-1.22	-84.43	8.44	19.45	6.74	12.05	-4.00	2.49	-1.68		51.33	.56	1	5.51	5.38	-84.28	-1.07	.15
48	58	106	-86.20	-.72	-86.92	10.57	19.00	7.29	12.79	-5.55	-.24	-1.99		51.74	.56	1	5.53	5.39	-87.13	-.93	-.21
48	59	107	-86.57	-.30	-86.87	8.02	18.59	7.48	13.55	-2.82	1.33	-2.34		52.12	.56	1	5.56	5.39	-86.99	-.42	-.12
48	60	108	-88.97	.05	-88.92	10.13	18.14	8.02	14.26	-4.36	-1.35	-2.64		52.46	.56	1	5.58	5.40	-89.25	-.28	-.33
48	61	109	-88.79	.32	-88.47	7.62	17.75	8.19	14.94	-1.67	.21	-3.00		52.77	.56	1	5.61	5.41	-88.54	.25	-.07
48	62	110	-90.64	.52	-90.12	9.72	17.34	8.72	15.56	-3.22	-2.44	-3.31		53.06	.58	1	5.63	5.42	-90.35	.29	-.23
48	63	111	-89.94	.66	-89.28	7.23	16.95	8.90	16.20	-.56	-.87	-3.60		53.30	.58	1	5.65	5.43	-89.25	.69	.03
48	64	112	-91.26	.72	-90.54	9.32	16.56	9.42	16.86	-2.11	-3.50	-3.82		53.52	.58	1	5.68	5.44	-90.58	.68	-.04
48	65	113	-90.06	.72	-89.34	6.87	16.20	9.59	17.56	.51	-1.93	-4.11		53.70	.58	1	5.70	5.44	-89.04	1.02	.30
48	66	114	-90.88	.65	-90.23	8.95	15.83	10.11	18.29	-1.04	-4.53	-4.39		53.85	.58	1	5.72	5.45	-90.01	.87	.22
48	67	115	-89.20	.52	-88.68	6.52	15.48	10.27	19.05	1.55	-2.97	-4.75		53.98	.58	1	5.75	5.46	-88.09	1.11	.59
48	68	116	-89.53	.33	-89.20	8.59	15.12	10.77	19.81	.00	-5.52	-5.11		54.07	.58	1	5.77	5.47	-88.72	.81	.48
48	69	117	-87.40	.08	-87.32	6.20	14.79	10.93	20.55	2.57	-3.96	-5.54		54.14	.58	1	5.79	5.48	-86.41	.99	.91
48	70	118	-87.26	-.23	-87.49	8.25	14.44	11.42	21.20	1.03	-6.48	-5.94		54.19	.58	1	5.81	5.49	-86.70	.56	.79
48	71	119	-84.69	-.60	-85.29	5.87	14.12	11.57	21.86	3.56	-4.92	-6.36		54.23	.60	1	5.83	5.49	-84.21	.48	1.08
48	72	120	-84.11	-1.03	-85.14	7.91	13.79	12.06	22.50	2.01	-7.42	-6.70		54.22	.60	1	5.86	5.50			
48	73	121	-81.13	-1.51	-82.64	5.57	13.49	12.21	23.15	4.51	-5.87	-7.05		54.19	.60	1	5.88	5.51			
48	74	122	-80.12	-2.05	-82.17	7.60	13.17	12.68	23.77	2.97	-8.34	-7.37		54.14	.60	1	5.90	5.52			
48	75	123	-76.74	-2.64	-79.38	5.28	12.89	12.83	24.40	5.44	-6.79	-7.73		54.06	.60	1	5.92	5.53			
48	76	124	-75.32	-3.28	-78.60	7.29	12.58	13.29	25.01	3.91	-9.22	-8.04		53.96	.60	1	5.94	5.53			
48	77	125	-71.56	-3.97	-75.53	5.00	12.30	13.44	25.63	6.35	-7.67	-8.40		53.84	.60	1	5.96	5.54			
48	78	126	-69.75	-4.71	-74.46	7.01	12.00	13.89	26.22	4.82	-10.08	-8.71		53.70	.60	1	5.98	5.55			
48	79	127	-65.62	-5.51	-71.13	4.73	11.74	14.03	26.83	7.23	-8.54	-9.07		53.54	.60	1	6.00	5.56			
48	80	128	-63.44	-6.35	-69.79	6.73	11.47	14.48	27.42	5.70	-10.93	-9.39		53.36	.60	1	6.02	5.57			
48	81	129	-58.96	-7.23	-66.19	4.48	11.21	14.62	28.00	8.09	-9.37	-9.74		53.16	.60	1	6.04	5.58			
48	82	130	-56.41	-8.17	-64.58	6.46	10.94	15.05	28.58	6.56	-13.81	-10.05		52.94	.60	1	6.06	5.58			
48	83	131	-51.59	-7.08	-58.67	2.17	8.62	15.19	29.17	10.99	-12.25	-8.33		52.70	.60	1	6.08	5.59			
48	84	132	-48.70	-6.06	-54.76	4.16	6.32	15.63	29.75	9.46	-14.58	-6.60		52.45	.60	1	6.10	5.60			
48	85	133	-43.56	-5.11	-48.67	1.98	6.14	15.78	30.35	11.78	-13.04	-7.02		52.17	.60	1	6.12	5.61			
48	86	134	-40.33	-4.22	-44.55	3.95	5.93	16.20	30.91	10.24	-15.34	-7.39		51.88	.60	1	6.14	5.62			
48	87	135	-34.88	-3.39	-38.27	1.79	5.75	16.34	31.49	12.54	-13.79	-7.80		51.58	.60	1	6.16	5.63			
48	88	136	-31.33	-2.62	-33.95	3.76	5.55	16.76	32.04	11.02	-16.07	-8.16		51.26	.60	1	6.18	5.63			
48	89	137	-25.58	-1.91	-27.49	1.61	5.37	16.89	32.61	13.30	-14.53	-8.56		50.92	.60	1	6.20	5.64			
48	90	138	-21.72	-1.25	-22.97	3.56	5.17	17.30	33.14	11.78	-16.77	-8.91		50.57	.60	1	6.22	5.65			
48	91	139	-15.68	-.66	-16.34	1.43	5.00	17.43	33.69	14.03	-15.24	-9.31		50.20	.60	1	6.24	5.66			
48	92	140	-11.53	-.12	-11.65	3.38	4.82	17.84	34.22	12.51	-17.47	-9.66		49.82	.60	1	6.26	5.67			
48	93	141	-5.21	.36	-4.85	1.27	4.65	17.96	34.56	14.74	-15.82	-10.05		49.43	.60	1	6.28	5.68			
48	94	142	-.77	.79	.02	3.20	4.47	18.24	34.74	13.23	-17.77	-10.40		49.02	.60	1	6.30	5.68			
48	95	143	5.81	1.15	6.96	1.13	4.34	18.12	34.91	15.42	-15.96	-10.60	.06	48.60	.60	1	6.31	5.69			
48	96	144	10.52	1.33	11.85	3.19	4.31	18.37	35.21	13.76	-18.02	-10.75	.09	48.17	.60	1	6.33	5.70			
48	97	145	17.37	1.40	18.77	1.16	4.34	18.39	35.59	15.76	-16.43	-10.95	.11	47.72	.60	1	6.35	5.71			
48	98	146	22.35	1.41	23.76	3.07	4.23	18.72	36.02	14.04	-18.60	-11.14	.12	47.27	.60	1	6.37	5.72			
48	99	147	29.44	1.41	30.85	.98	4.06	18.80	36.46	16.12	-17.08	-11.36	.13	46.80	.60	1	6.39	5.73			
48	100	148	34.67	1.39	36.06	2.86	3.84	19.16	36.92	14.56	-19.27	-11.56	.13	46.32	.60	1	6.41	5.74			
48	101	149	42.00	1.36	43.36	.77	3.63	19.26	37.40	16.71	-17.79	-11.80	.14	45.82	.60	1	6.42	5.74			
48	102	150	47.48	1.34	48.82	2.61	3.38	19.62	37.86	15.23	-19.97	-12.01	.14	45.32	.60	1	6.44	5.75			
48	103	151	55.04	1.32	56.36	.53	3.14	19.73	38.34	17.40	-18.50	-12.25	.14	44.81	.60	1	6.46	5.76			
48	104	152	60.76	1.30	62.06	2.37	2.90	20.09	38.82	15.94	-20.68	-12.47	.14	44.29	.60	1	6.48	5.77			
48	105	153	68.54	1.28	69.82	.31	2.68	20.21	39.31	18.12	-19.22	-12.73	.14	43.75	.60	1	6.49	5.78			
48	106	154	74.49	1.26	75.75	2.14	2.45	20.58	39.80	16.68	-21.39	-12.97	.13	43.21	.60	1	6.51	5.79			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
48	107	155	82.48	1.23	83.71	.11	2.25	20.72	40.31	18.85	-19.95	-13.27	.12	42.66	.60	1	6.53	5.79			
48	108	156	88.66	1.19	89.85	1.94	2.04	21.10	40.81	17.46	-22.10	-13.54	.11	42.10	.60	1	6.55	5.80			
48	110	158	103.24	.95	104.19	1.85	1.80	21.75	42.00	18.32	-22.86	-14.32	.07	40.95	.60	1	6.58	5.82			
48	111	159	111.64	.61	112.25	.01	1.86	22.08	42.78	20.41	-21.49	-14.94		40.30	.58	1	6.60	5.83			
48	112	160	118.24	.21	118.45	1.88	1.88	22.58	43.55	18.93	-23.53	-15.58		39.71	.58	1	6.61	5.84			
48	114	162	133.63	-.72	132.91	1.76	1.68	23.00	44.68	19.49	-24.05	-16.93		38.49	.58	1	6.65	5.85			
48	116	164	149.40	-1.81	147.59	1.64	1.46	23.42	45.52	20.03	-24.58	-17.85		37.24	.58	1	6.68	5.87			
48	118	166	165.54	-3.04	162.50	1.53	1.24	23.83	46.34	20.57	-25.08	-18.46		35.97	.58	1	6.71	5.89			
48	120	168	182.04	-4.42	177.62	1.42	1.02	24.22	47.14	21.09	-25.57	-19.07		34.67	.58	1	6.75	5.90			
48	122	170	198.88	-5.94	192.94	1.31	.82	24.61	47.93	21.60	-26.05	-19.67		33.34	.58	1	6.78	5.92			
48	124	172	216.06	-7.60	208.46	1.21	.63	24.99	48.70	22.10	-26.52	-20.26		31.91	.56	1	6.81	5.94			
48	126	174	233.56	-9.39	224.17	1.11	.44	25.36	49.46	22.59	-28.97	-20.84		30.54	.56	1	6.84	5.95			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
49	41	90	7.46	-2.27	5.19	16.44	35.37	-2.77	-2.99	-16.99	19.94	-2.39		37.03	.48	1	5.08	5.27			
49	42	91	-2.30	-2.58	-4.88	18.15	34.59	-2.58	-2.17	-18.51	16.85	-2.45		38.24	.48	1	5.11	5.28			
49	43	92	-9.53	-2.97	-12.50	15.70	33.84	-1.94	-1.34	-15.44	18.38	-2.55		39.38	.48	1	5.14	5.29			
49	44	93	-18.39	-3.45	-21.84	17.41	33.11	-1.75	-.52	-16.96	15.33	-2.64		40.47	.48	1	5.17	5.30			
49	45	94	-24.76	-4.00	-28.76	15.00	32.40	-1.12	.30	-13.94	16.85	-2.77		41.50	.50	1	5.20	5.31			
49	46	95	-32.76	-4.63	-37.39	16.70	31.70	-.93	1.10	-15.46	13.86	-2.88		42.49	.50	1	5.22	5.32			
49	47	96	-38.32	-5.33	-43.65	14.33	31.03	-.31	2.23	-12.49	15.38	-3.04		43.42	.50	1	5.25	5.32			
49	48	97	-45.52	-6.10	-51.62	16.04	30.37	-.12	3.33	-14.01	11.81	-3.18		44.30	.52	1	5.28	5.33			
49	49	98	-49.99	-6.94	-56.93	13.39	29.42	.80	4.43	-10.77	13.04	-3.36		45.13	.52	1	5.31	5.34			
49	50	99	-56.11	-7.85	-63.96	15.10	28.48	1.29	5.51	-11.99	7.76	-3.52		45.92	.52	1	5.34	5.35			
49	51	100	-59.57	-6.76	-66.33	10.44	25.54	1.90	6.33	-6.45	9.30	-1.68		46.66	.52	1	5.36	5.36			
49	52	101	-64.68	-5.76	-70.44	12.18	22.62	2.10	7.12	-8.01	6.46	.16		47.36	.54	1	5.39	5.37			
49	53	102	-67.45	-4.85	-72.30	9.94	22.11	2.69	7.91	-5.18	8.01	-.15		48.01	.54	1	5.42	5.38	-69.67	-2.22	2.63
49	54	103	-71.88	-4.03	-75.91	11.68	21.62	2.88	8.68	-6.73	5.21	-.43		48.62	.54	1	5.44	5.38	-73.78	-1.90	2.13
49	55	104	-74.02	-3.29	-77.31	9.47	21.15	3.48	9.46	-3.96	6.75	-.76		49.19	.54	1	5.47	5.39	-75.51	-1.49	1.80
49	56	105	-77.80	-2.63	-80.43	11.20	20.66	3.66	10.21	-5.50	4.00	-1.04		49.72	.54	1	5.49	5.40	-79.18	-1.38	1.25
49	57	106	-79.32	-2.05	-81.37	9.01	20.21	4.23	10.97	-2.75	5.55	-1.37		50.21	.54	1	5.52	5.41	-80.39	-1.07	.98
49	58	107	-82.50	-1.55	-84.05	10.75	19.76	4.42	11.71	-4.30	2.82	-1.67		50.67	.56	1	5.54	5.42	-83.50	-1.00	.55
49	59	108	-83.43	-1.13	-84.56	8.58	19.33	4.98	12.46	-1.59	4.37	-2.00		51.09	.56	1	5.57	5.42	-84.10	-.67	.46
49	60	109	-86.02	-.78	-86.80	10.31	18.89	5.16	13.18	-3.14	1.67	-2.31		51.47	.56	1	5.59	5.43	-86.52	-.50	.28
49	61	110	-86.40	-.50	-86.90	8.17	18.48	5.71	13.91	-.47	3.22	-2.64		51.82	.56	1	5.62	5.44	-86.42	-.02	.48
49	62	111	-88.43	-.29	-88.72	9.90	18.07	5.89	14.62	-2.01	.57	-2.95		52.13	.56	1	5.64	5.45	-88.43	0.	.29
49	63	112	-88.27	-.16	-88.43	7.78	17.68	6.43	15.33	.63	2.11	-3.29		52.42	.56	1	5.66	5.46	-87.99	.28	.44
49	64	113	-89.77	-.09	-89.86	9.50	17.28	6.60	16.03	-.93	-.52	-3.60		52.67	.56	1	5.69	5.47	-89.34	.43	.52
49	65	114	-89.10	-.08	-89.18	7.40	16.90	7.13	16.71	1.70	1.04	-3.93		52.88	.56	1	5.71	5.47	-88.58	.52	.60
49	66	115	-90.09	-.14	-90.23	9.12	16.52	7.30	17.40	.15	-1.55	-4.24		53.07	.56	1	5.73	5.48	-89.54	.55	.69
49	67	116	-88.94	-.27	-89.21	7.05	16.17	7.82	18.09	2.72	-.02	-4.59		53.23	.56	1	5.76	5.49	-88.25	.69	.96
49	68	117	-89.43	-.45	-89.88	8.75	15.79	7.98	18.74	1.19	-2.56	-4.90		53.39	.58	1	5.78	5.50	-88.93	.50	.95
49	69	118	-87.82	-.70	-88.52	6.71	15.46	8.49	19.42	3.72	-1.03	-5.25		53.49	.58	1	5.80	5.51	-87.45	.37	1.07
49	70	119	-87.85	-1.00	-88.85	8.41	15.11	8.65	20.07	2.18	-3.56	-5.56		53.57	.58	1	5.82	5.51	-87.71	.14	1.14
49	71	120	-85.79	-1.37	-87.16	6.38	14.79	9.15	20.73	4.69	-2.02	-5.91		53.62	.58	1	5.84	5.52	-85.49	.30	1.67
49	72	121	-85.36	-1.79	-87.15	8.07	14.44	9.30	21.36	3.16	-4.51	-6.22		53.65	.58	1	5.87	5.53	-85.82	-.46	1.33
49	73	122	-82.88	-2.26	-85.14	6.06	14.13	9.79	22.00	5.65	-2.97	-6.56		53.65	.58	1	5.89	5.54	-83.24	-.36	1.90
49	74	123	-82.03	-2.79	-84.82	7.75	13.81	9.94	22.63	4.11	-5.44	-6.88		53.63	.58	1	5.91	5.55	-83.42	-1.39	1.40
49	75	124	-79.13	-3.38	-82.51	5.76	13.51	10.42	23.26	6.57	-3.91	-7.22		53.58	.58	1	5.93	5.56	-80.83	-1.70	1.68
49	76	125	-77.87	-4.01	-81.88	7.44	13.20	10.57	23.86	5.04	-6.35	-7.53		53.51	.58	1	5.95	5.56			
49	77	126	-74.59	-4.70	-79.29	5.47	12.92	11.04	24.49	7.46	-4.82	-7.88		53.43	.58	1	5.97	5.57			
49	78	127	-72.93	-5.43	-78.36	7.15	12.62	11.18	25.08	5.93	-7.23	-8.19		53.31	.58	1	5.99	5.58			
49	79	128	-69.27	-6.22	-75.49	5.20	12.35	11.65	25.69	8.33	-5.71	-8.54		53.18	.58	1	6.01	5.59			
49	80	129	-67.23	-7.05	-74.28	6.86	12.06	11.78	26.26	6.81	-8.09	-8.84		53.03	.58	1	6.03	5.60			
49	81	130	-63.21	-7.93	-71.14	4.93	11.80	12.24	26.86	9.19	-6.56	-9.18		52.89	.60	1	6.05	5.60			
49	82	131	-60.81	-8.85	-69.66	6.60	11.52	12.37	27.42	7.66	-10.99	-9.49		52.70	.60	1	6.07	5.61			
49	83	132	-56.44	-7.77	-64.21	2.62	9.21	12.83	28.02	12.07	-9.45	-7.77		52.49	.60	1	6.09	5.62			
49	84	133	-53.69	-6.75	-60.44	4.30	6.92	12.97	28.60	10.54	-11.78	-6.05		52.27	.60	1	6.11	5.63			
49	85	134	-48.99	-5.80	-54.79	2.41	6.72	13.41	29.19	12.85	-10.24	-6.45		52.02	.60	1	6.13	5.64			
49	86	135	-45.91	-4.91	-50.82	4.10	6.52	13.56	29.77	11.31	-12.56	-6.83		51.76	.60	1	6.15	5.65			
49	87	136	-40.89	-4.08	-44.97	2.23	6.32	14.00	30.34	13.61	-11.02	-7.21		51.48	.60	1	6.17	5.65			
49	88	137	-37.48	-3.31	-40.79	3.89	6.12	14.13	30.89	12.08	-13.31	-7.58		51.19	.60	1	6.19	5.66			
49	89	138	-32.15	-2.60	-34.75	2.04	5.93	14.56	31.45	14.36	-11.77	-7.96		50.87	.60	1	6.21	5.67			
49	90	139	-28.43	-1.95	-30.38	3.70	5.74	14.69	32.00	12.82	-14.04	-8.33		50.55	.60	1	6.23	5.68			
49	91	140	-22.81	-1.35	-24.16	1.86	5.55	15.11	32.54	15.08	-12.51	-8.71		50.21	.60	1	6.25	5.69			
49	92	141	-18.78	-.81	-19.59	3.51	5.36	15.23	33.07	13.56	-14.74	-9.05		49.85	.60	1	6.27	5.70			
49	93	142	-12.88	-.33	-13.21	1.68	5.20	15.65	33.61	15.78	-13.23	-9.44		49.48	.60	1	6.29	5.70			
49	94	143	-8.56	.10	-8.46	3.32	5.01	15.77	34.01	14.27	-15.42	-9.78		49.10	.60	1	6.31	5.71			
49	95	144	-2.39	.48	-1.91	1.52	4.85	16.16	34.28	16.47	-13.76	-10.16		48.70	.60	1	6.32	5.72			
49	96	145	2.21	.80	3.01	3.15	4.67	16.12	34.49	14.96	-15.75	-10.39		48.29	.60	1	6.34	5.73			
49	97	146	8.65	1.07	9.72	1.36	4.52	16.33	34.73	17.14	-14.04	-10.50	.04	47.87	.60	1	6.36	5.74			
49	98	147	13.51	1.22	14.73	3.06	4.42	16.31	35.05	15.55	-16.11	-10.62	.08	47.43	.60	1	6.38	5.75			
49	99	148	20.21	1.29	21.50	1.30	4.37	16.63	35.44	17.62	-14.56	-10.79	.10	46.99	.60	1	6.40	5.75			
49	100	149	25.33	1.32	26.65	2.92	4.23	16.69	35.86	16.01	-16.71	-10.97	.10	46.53	.60	1	6.41	5.76			
49	101	150	32.27	1.33	33.60	1.12	4.04	17.05	36.31	18.10	-15.22	-11.19	.11	46.06	.60	1	6.43	5.77			
49	102	151	37.64	1.32	38.96	2.71	3.83	17.15	36.77	16.55	-17.39	-11.40	.11	45.57	.60	1	6.45	5.78			
49	103	152	44.82	1.30	46.12	.91	3.62	17.52	37.25	18.68	-15.93	-11.64	.11	45.03	.58	1	6.47	5.79			
49	104	153	50.43	1.27	51.70	2.49	3.40	17.64	37.74	17.20	-18.11	-11.88	.11	44.52	.58	1	6.49	5.80			
49	105	154	57.83	1.23	59.06	.71	3.20	18.04	38.25	19.38	-16.69	-12.16	.11	44.01	.58	1	6.50	5.80			
49	106	155	63.68	1.18	64.86	2.28	2.98	18.18	38.76	17.98	-18.85	-12.43	.10	43.48	.58	1	6.52	5.81			
49	107	156	71.31	1.09	72.40	.53	2.81	18.61	39.32	20.18	-17.44	-12.76	.08	42.95	.58	1	6.54	5.82			
49	108	157	77.38	.93	78.31	2.16	2.69	18.82	39.93	18.76	-19.65	-13.16	.05	42.40	.58	1	6.56	5.83			
49	109	158	85.22	.66	85.88	.50	2.65	19.38	40.65	20.85	-18.31	-13.68		41.85	.58	1	6.57	5.84			
49	110	159	91.50	.34	91.84	2.11	2.61	19.64	41.39	19.35	-20.42	-14.25		41.29	.58	1	6.59	5.85			
49	111	160	99.55	-.03	99.52	.39	2.50	20.02	42.11	21.41	-18.93	-14.85		40.72	.58	1	6.61	5.85			
49	112	161	106.05	-.43	105.62	1.97	2.36	20.12	42.70	19.92	-20.97	-15.45		40.14	.58	1	6.62	5.86			
49	113	162	114.29	-.87	113.42	.27	2.25	20.46	43.13	21.96	-19.49	-16.05		39.55	.58	1	6.64	5.87			

Z	N	A	DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
			MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
49	114	163	120.99	-1.35	119.64	1.85	2.12	20.56	43.56	20.47	-21.52	-16.52		38.96	.58	1	6.66	5.88			
49	115	164	129.43	-1.87	127.56	.16	2.00	20.89	43.98	22.50	-20.03	-16.84		38.36	.58	1	6.67	5.89			
49	116	165	136.33	-2.43	133.90	1.73	1.89	20.98	44.40	21.01	-22.06	-17.15		37.75	.58	1	6.69	5.90			
49	117	166	144.95	-3.02	141.93	.05	1.77	21.31	44.81	23.03	-20.57	-17.46		37.13	.58	1	6.71	5.90			
49	118	167	152.04	-3.65	148.39	1.61	1.66	21.40	45.22	21.55	-22.57	-17.76		36.50	.58	1	6.72	5.91			
49	120	169	168.12	-5.02	163.10	1.50	1.44	21.81	46.03	22.07	-23.08	-18.36		35.16	.56	1	6.76	5.93			
49	122	171	184.55	-6.53	178.02	1.39	1.22	22.21	46.82	22.58	-23.58	-18.95		33.86	.56	1	6.79	5.95			
49	124	173	201.32	-8.17	193.15	1.28	1.02	22.60	47.59	23.08	-24.06	-19.53		32.53	.56	1	6.82	5.96			
49	126	175	218.42	-9.95	208.47	1.18	.82	22.99	48.36	23.56	-26.52	-20.12		31.18	.56	1	6.85	5.98			

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50	36	86	68.52	-3.06	65.46	21.25	40.35	-2.98	-8.13	-28.92	20.23	-2.21		28.04	.40	3	4.93	5.26			
50	37	87	58.22	-2.91	55.31	18.23	39.48	-2.79	-7.27	-25.68	21.75	-2.21		29.58	.42	3	4.96	5.27			
50	38	88	45.86	-2.86	43.00	20.38	38.61	-2.15	-6.44	-27.16	18.59	-2.18		31.07	.42	3	4.99	5.28			
50	39	89	36.57	-2.91	33.66	17.41	37.79	-1.96	-5.58	-23.99	20.10	-2.22		32.50	.42	3	5.03	5.29			
50	40	90	25.22	-3.04	22.18	19.55	36.96	-1.33	-4.76	-25.47	16.98	-2.23		33.85	.44	2	5.06	5.29			
50	41	91	16.89	-3.26	13.63	16.62	36.18	-1.14	-3.92	-22.34	18.51	-2.30		35.16	.44	2	5.09	5.30			
50	42	92	6.50	-3.56	2.94	18.76	35.39	-.52	-3.11	-23.82	15.44	-2.33		36.39	.48	1	5.12	5.31			
50	43	93	-.93	-3.95	-4.88	15.89	34.65	-.33	-2.27	-20.75	16.96	-2.44		37.58	.48	1	5.15	5.32			
50	44	94	-10.41	-4.41	-14.82	18.02	33.90	.28	-1.48	-22.23	13.94	-2.50		38.71	.48	1	5.18	5.33			
50	45	95	-16.98	-4.96	-21.94	15.19	33.20	.46	-.65	-19.21	15.46	-2.63		39.79	.48	1	5.21	5.34			
50	46	96	-25.59	-5.57	-31.16	17.30	32.48	1.06	.13	-20.68	12.49	-2.71		40.82	.48	1	5.24	5.35			
50	47	97	-31.34	-6.26	-37.60	14.51	31.81	1.24	.93	-17.69	14.02	-2.86		41.79	.50	1	5.26	5.36			
50	48	98	-39.14	-7.02	-46.16	16.63	31.14	1.83	1.71	-19.19	10.78	-2.97		42.72	.50	1	5.29	5.36			
50	49	99	-44.11	-7.85	-51.96	13.88	30.50	2.32	3.11	-16.24	12.01	-3.13		43.60	.50	1	5.32	5.37			
50	50	100	-51.13	-8.75	-59.88	15.98	29.86	3.20	4.49	-17.74	6.45	-3.28		44.43	.50	1	5.35	5.38			
50	51	101	-54.77	-7.66	-62.43	10.63	26.61	3.39	5.29	-12.19	8.01	-1.43		45.21	.52	1	5.37	5.39			
50	52	102	-60.46	-6.66	-67.12	12.76	23.39	3.97	6.07	-13.41	5.18	.42		45.95	.52	1	5.40	5.40			
50	53	103	-63.43	-5.75	-69.18	10.13	22.89	4.17	6.86	-10.28	6.73	.11		46.64	.52	1	5.43	5.41	-65.88	-2.45	3.30
50	54	104	-68.43	-4.93	-73.36	12.25	22.38	4.73	7.62	-11.80	3.94	-.15		47.29	.52	1	5.45	5.41	-70.91	-2.48	2.45
50	55	105	-70.75	-4.19	-74.94	9.65	21.91	4.92	8.40	-9.01	5.49	-.47		47.91	.52	1	5.48	5.42	-72.58	-1.83	2.36
50	56	106	-75.10	-3.53	-78.63	11.76	21.42	5.48	9.15	-10.53	2.74	-.74		48.48	.54	1	5.50	5.43	-77.09	-1.99	1.54
50	57	107	-76.80	-2.94	-79.74	9.20	20.95	5.66	9.89	-7.75	4.31	-1.05		49.01	.54	1	5.53	5.44	-78.20	-1.40	1.54
50	58	108	-80.52	-2.44	-82.96	11.29	20.48	6.20	10.62	-9.27	1.60	-1.32		49.51	.54	1	5.55	5.45	-82.00	-1.48	.96
50	59	109	-81.64	-2.01	-83.65	8.76	20.05	6.38	11.36	-6.55	3.15	-1.65		49.96	.54	1	5.58	5.45	-82.72	-1.08	.93
50	60	110	-84.77	-1.66	-86.43	10.85	19.61	6.92	12.08	-8.07	.47	-1.94		50.38	.54	1	5.60	5.46	-85.82	-1.05	.61
50	61	111	-85.33	-1.38	-86.71	8.35	19.20	7.10	12.82	-5.39	2.01	-2.27		50.77	.54	1	5.63	5.47	-85.92	-.59	.79
50	62	112	-87.89	-1.17	-89.06	10.42	18.77	7.63	13.52	-6.91	-.63	-2.56		51.12	.54	1	5.65	5.48	-88.65	-.76	.41
50	63	113	-87.91	-1.03	-88.94	7.95	18.38	7.80	14.23	-4.25	.91	-2.89		51.46	.56	1	5.67	5.49	-88.32	-.41	.62
50	64	114	-89.92	-.95	-90.87	10.01	17.96	8.31	14.91	-5.76	-1.68	-3.17		51.74	.56	1	5.70	5.50	-90.56	-.64	.31
50	65	115	-89.43	-.95	-90.38	7.57	17.59	8.48	15.61	-3.15	-.15	-3.52		52.00	.56	1	5.72	5.50	-90.03	-.60	.35
50	66	116	-90.93	-1.00	-91.93	9.63	17.20	8.99	16.29	-4.66	-2.73	-3.81		52.22	.56	1	5.74	5.51	-91.52	-.59	.41
50	67	117	-89.95	-1.12	-91.07	7.21	16.84	9.15	16.97	-2.07	-1.18	-4.15		52.42	.56	1	5.77	5.52	-90.39	-.44	.68
50	68	118	-90.94	-1.30	-92.24	9.25	16.46	9.64	17.62	-3.58	-3.72	-4.44		52.59	.56	1	5.79	5.53	-91.65	-.71	.59
50	69	119	-89.49	-1.54	-91.03	6.86	16.11	9.80	18.29	-1.02	-2.18	-4.78		52.73	.56	1	5.81	5.54	-90.06	-.57	.97
50	70	120	-90.01	-1.84	-91.85	8.89	15.75	10.29	18.94	-2.54	-4.70	-5.08		52.84	.56	1	5.83	5.54	-91.09	-1.08	.76
50	71	121	-88.12	-2.20	-90.32	6.53	15.43	10.45	19.60	-.02	-3.17	-5.43		52.92	.56	1	5.85	5.55	-89.20	-1.08	1.12
50	72	122	-88.18	-2.61	-90.79	8.55	15.08	10.93	20.23	-1.52	-5.65	-5.72		52.98	.56	1	5.88	5.56	-89.94	-1.76	.85
50	73	123	-85.85	-3.08	-88.93	6.21	14.76	11.07	20.87	.98	-4.11	-6.06		53.02	.56	1	5.90	5.57	-87.81	-1.96	1.12
50	74	124	-85.48	-3.60	-89.08	8.22	14.43	11.55	21.49	-.54	-6.57	-6.37		53.03	.56	1	5.92	5.58	-88.23	-2.75	.85
50	75	125	-82.74	-4.18	-86.92	5.91	14.13	11.69	22.12	1.93	-5.04	-6.71		53.04	.58	1	5.94	5.58	-85.89	-3.15	1.03
50	76	126	-81.95	-4.80	-86.75	7.91	13.81	12.16	22.73	.42	-7.47	-7.01		53.01	.58	1	5.96	5.59	-86.01	-4.06	.74
50	77	127	-78.81	-5.48	-84.29	5.61	13.52	12.30	23.34	2.87	-5.93	-7.34		52.95	.58	1	5.98	5.60	-83.51	-4.70	.78
50	78	128	-77.61	-6.21	-83.82	7.60	13.21	12.75	23.93	1.36	-8.33	-7.64		52.87	.58	1	6.00	5.61	-83.40	-5.79	.42
50	79	129	-74.10	-6.98	-81.08	5.33	12.93	12.89	24.53	3.79	-6.80	-7.97		52.77	.58	1	6.02	5.62			
50	80	130	-72.52	-7.81	-80.33	7.31	12.65	13.34	25.12	2.27	-9.19	-8.29		52.64	.58	1	6.04	5.63			
50	81	131	-68.64	-8.68	-77.32	5.07	12.38	13.47	25.71	4.67	-7.66	-8.62		52.50	.58	1	6.06	5.63			
50	82	132	-66.68	-9.60	-76.28	7.03	12.10	13.90	26.28	3.16	-12.06	-8.92		52.34	.58	1	6.08	5.64			
50	83	133	-62.46	-8.52	-70.98	2.77	9.80	14.05	26.88	7.56	-10.53	-7.22		52.16	.58	1	6.10	5.65			
50	84	134	-60.14	-7.50	-67.64	4.74	7.50	14.48	27.45	6.06	-12.85	-5.49		51.96	.58	1	6.12	5.66			
50	85	135	-55.58	-6.55	-62.13	2.56	7.30	14.62	28.04	8.39	-11.32	-5.88		51.74	.58	1	6.14	5.67			
50	86	136	-52.92	-5.66	-58.58	4.52	7.08	15.05	28.61	6.88	-13.61	-6.24		51.50	.58	1	6.16	5.67			
50	87	137	-48.04	-4.83	-52.87	2.36	6.88	15.19	29.19	9.18	-12.08	-6.63		51.25	.58	1	6.18	5.68			
50	88	138	-45.05	-4.06	-49.11	4.31	6.67	15.61	29.74	7.67	-14.36	-6.99		50.98	.58	1	6.20	5.69			
50	89	139	-39.85	-3.35	-43.20	2.16	6.48	15.74	30.30	9.97	-12.83	-7.36		50.70	.58	1	6.22	5.70			
50	90	140	-36.54	-2.70	-39.24	4.10	6.28	16.15	30.84	8.46	-15.08	-7.72		50.40	.58	1	6.24	5.71			
50	91	141	-31.05	-2.10	-33.15	1.98	6.09	16.28	31.39	10.72	-13.56	-8.09		50.08	.58	1	6.26	5.71			
50	92	142	-27.43	-1.56	-28.99	3.91	5.89	16.68	31.92	9.22	-15.78	-8.44		49.75	.58	1	6.28	5.72			
50	93	143	-21.65	-1.07	-22.72	1.80	5.71	16.81	32.45	11.47	-14.26	-8.81		49.40	.58	1	6.30	5.73			
50	94	144	-17.74	-.64	-18.38	3.73	5.53	17.21	32.98	9.96	-16.47	-9.16		49.04	.58	1	6.31	5.74			
50	95	145	-11.68	-.26	-11.94	1.63	5.36	17.33	33.48	12.19	-14.95	-9.52		48.66	.58	1	6.33	5.75			
50	96	146	-7.48	.06	-7.42	3.54	5.18	17.72	33.85	10.69	-17.14	-9.86		48.28	.58	1	6.35	5.76			
50	97	147	-1.16	.34	-.82	1.47	5.02	17.83	34.16	12.89	-15.55	-10.21		47.88	.58	1	6.37	5.76			
50	98	148	3.31	.56	3.87	3.38	4.85	18.15	34.47	11.39	-17.63	-10.41		47.46	.58	1	6.39	5.77			
50	99	149	9.89	.74	10.63	1.32	4.69	18.16	34.79	13.66	-16.02	-10.56		47.04	.58	1	6.41	5.78			
50	100	150	14.64	.87	15.51	3.20	4.51	18.43	35.13	12.29	-18.08	-10.67		46.60	.58	1	6.42	5.79			
50	101	151	21.46	.95	22.41	1.17	4.37	18.48	35.53	14.54	-16.55	-10.86		46.15	.58	1	6.44	5.80			
50	102	152	26.46	.98	27.44	3.04	4.21	18.81	35.96	13.12	-18.68	-11.04	.03	45.68	.58	1	6.46	5.81			
50	103	153	33.53	.97	34.50	1.02	4.06	18.91	36.43	15.31	-17.20	-11.29	.03	45.21	.58	1	6.48	5.81			
50	104	154	38.78	.91	39.69	2.88	3.90	19.30	36.94	13.83	-19.38	-11.55		44.73	.58	1	6.49	5.82			
50	105	155	46.07	.80	46.87	.88	3.77	19.48	37.52	15.90	-17.99	-11.91		44.23	.58	1	6.51	5.83			
50	106	156	51.56	.66	52.22	2.73	3.61	19.93	38.10	14.36	-20.17	-12.26		43.73	.58	1	6.53	5.84			
50	107	157	59.08	.47	59.55	.74	3.47	20.13	38.74	16.37	-18.75	-12.69		43.21	.58	1	6.55	5.85			
50	108	158	64.80	.23	65.03	2.58	3.33	20.56	39.39	14.78	-20.84	-13.14		42.69	.58	1	6.56	5.85			
50	109	159	72.53	-.04	72.49	.61	3.20	20.67	40.05	16.78	-19.35	-13.65		42.16	.58	1	6.58	5.86			
50	110	160	78.47	-.36	78.11	2.45	3.06	21.02	40.66	15.29	-21.41	-14.16		41.61	.58	1	6.60	5.87			
50	111	161	86.42	-.72	85.70	.48	2.93	21.11	41.14	17.36	-19.92	-14.69		41.06	.58	1	6.61	5.88			

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GO STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
50	112	162	92.57	-1.11	91.46	2.32	2.80	21.45	41.57	15.89	-21.96	-15.16		40.50	.58	1	6.63	5.89			
50	113	163	100.72	-1.55	99.17	.36	2.67	21.54	42.00	17.94	-20.47	-15.51		39.86	.56	1	6.65	5.90			
50	114	164	107.09	-2.03	105.06	2.18	2.54	21.87	42.43	16.47	-22.50	-15.81		39.28	.56	1	6.67	5.90			
50	115	165	115.43	-2.54	112.89	.24	2.42	21.96	42.85	18.51	-21.01	-16.13		38.70	.56	1	6.68	5.91			
50	116	166	122.00	-3.09	118.91	2.05	2.29	22.29	43.26	17.05	-23.02	-16.42		38.10	.56	1	6.70	5.92			
50	117	167	130.52	-3.68	126.84	.14	2.19	22.38	43.69	19.06	-21.55	-16.75		37.50	.56	1	6.71	5.93			
50	118	168	137.29	-4.31	132.98	1.93	2.07	22.70	44.10	17.60	-23.55	-17.04		36.89	.56	1	6.73	5.94			
50	119	169	146.00	-4.97	141.03	.02	1.96	22.78	44.51	19.60	-22.07	-17.35		36.27	.56	1	6.75	5.95			
50	120	170	152.96	-5.66	147.30	1.81	1.83	23.10	44.90	18.16	-24.04	-17.63		35.64	.56	1	6.76	5.95			
50	122	172	168.98	-7.16	161.82	1.70	1.61	23.49	45.70	18.68	-24.54	-18.22		34.37	.56	1	6.80	5.97			
50	124	174	185.36	-8.80	176.56	1.58	1.40	23.87	46.48	19.20	-25.02	-18.81		33.08	.56	1	6.83	5.99			
50	126	176	202.07	-10.56	191.51	1.48	1.19	24.26	47.24	19.72	-27.46	-19.38		31.76	.56	1	6.86	6.00			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GO STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
51	49	100	-35.38	-6.76	-42.14	14.49	31.31	-2.54	-.22	-14.88	17.74	-.91		41.98	.48	1	5.33	5.40			
51	50	101	-42.58	-7.66	-50.24	16.17	30.66	-2.35	.85	-16.37	12.19	-1.05		42.85	.50	1	5.36	5.41			
51	51	102	-47.13	-6.59	-53.72	11.55	27.72	-1.43	1.97	-11.17	13.40	.79		43.67	.50	1	5.38	5.42			
51	52	103	-53.30	-5.60	-58.90	13.26	24.80	-.93	3.04	-12.38	10.28	2.64		44.46	.50	1	5.41	5.43			
51	53	104	-56.85	-4.70	-61.55	10.73	23.98	-.34	3.82	-8.98	11.80	2.36		45.19	.50	1	5.44	5.44			
51	54	105	-62.04	-3.89	-65.93	12.45	23.17	-.13	4.60	-10.50	9.00	2.08		45.89	.52	1	5.46	5.44	-63.18	-1.14	2.75
51	55	106	-64.94	-3.16	-68.10	10.24	22.69	.46	5.37	-7.72	10.52	1.78		46.54	.52	1	5.49	5.45	-65.69	-.75	2.41
51	56	107	-69.48	-2.51	-71.99	11.96	22.20	.66	6.13	-9.24	7.76	1.50		47.15	.52	1	5.51	5.46	-70.10	-.62	1.89
51	57	108	-71.75	-1.94	-73.69	9.78	21.73	1.23	6.89	-6.50	9.28	1.19		47.72	.52	1	5.54	5.47	-72.20	-.45	1.49
51	58	109	-75.66	-1.45	-77.11	11.49	21.27	1.43	7.64	-8.03	6.55	.90		48.26	.52	1	5.56	5.48	-76.02	-.36	1.09
51	59	110	-77.33	-1.03	-78.36	9.33	20.81	1.99	8.38	-5.31	8.07	.59		48.75	.52	1	5.59	5.48	-77.62	-.29	.74
51	60	111	-80.64	-.68	-81.32	11.04	20.36	2.18	9.10	-6.83	5.39	.30		49.22	.54	1	5.61	5.49	-81.02	-.38	.30
51	61	112	-81.74	-.41	-82.15	8.90	19.93	2.73	9.83	-4.15	6.91	-.02		49.65	.54	1	5.64	5.50	-81.85	-.11	.30
51	62	113	-84.48	-.21	-84.69	10.60	19.51	2.92	10.55	-5.68	4.24	-.32		50.04	.54	1	5.66	5.51	-84.42	.06	.27
51	63	114	-85.04	-.07	-85.11	8.50	19.10	3.47	11.26	-3.03	5.77	-.64		50.39	.54	1	5.68	5.52	-84.87	.17	.24
51	64	115	-87.23	-0.	-87.23	10.19	18.69	3.65	11.96	-4.55	3.15	-.93		50.72	.54	1	5.71	5.52	-87.00	.23	.23
51	65	116	-87.27	-0.	-87.27	8.11	18.30	4.18	12.66	-1.95	4.66	-1.27		51.01	.54	1	5.73	5.53	-87.02	.25	.25
51	66	117	-88.93	-.06	-88.99	9.79	17.90	4.35	13.34	-3.45	2.08	-1.56		51.27	.54	1	5.75	5.54	-88.64	.29	.35
51	67	118	-88.47	-.18	-88.65	7.73	17.52	4.88	14.02	-.88	3.59	-1.89		51.50	.54	1	5.78	5.55	-87.95	.52	.70
51	68	119	-89.64	-.37	-90.01	9.42	17.16	5.06	14.70	-2.40	1.02	-2.20		51.73	.56	1	5.80	5.56	-89.48	.16	.53
51	69	120	-88.70	-.61	-89.31	7.38	16.79	5.57	15.37	.15	2.54	-2.53		51.90	.56	1	5.82	5.56	-88.41	.29	.90
51	70	121	-89.39	-.92	-90.31	9.06	16.45	5.74	16.04	-1.38	.00	-2.85		52.04	.56	1	5.84	5.57	-89.59	-.20	.72
51	71	122	-87.99	-1.28	-89.27	7.04	16.10	6.24	16.69	1.14	1.52	-3.18		52.16	.56	1	5.86	5.58	-88.33	-.34	.94
51	72	123	-88.22	-1.69	-89.91	8.72	15.75	6.41	17.34	-.37	-.98	-3.48		52.26	.56	1	5.89	5.59	-89.22	-1.00	.69
51	73	124	-86.38	-2.16	-88.54	6.71	15.42	6.90	17.98	2.12	.54	-3.81		52.32	.56	1	5.91	5.60	-87.61	-1.23	.93
51	74	125	-86.16	-2.69	-88.85	8.37	15.09	7.06	18.61	.61	-1.93	-4.12		52.37	.56	1	5.93	5.60	-88.26	-2.10	.59
51	75	126	-83.91	-3.26	-87.17	6.39	14.77	7.55	19.24	3.07	-.42	-4.45		52.39	.56	1	5.95	5.61	-86.33	-2.42	.84
51	76	127	-83.27	-3.89	-87.16	8.06	14.45	7.70	19.86	1.57	-2.87	-4.76		52.38	.56	1	5.97	5.62	-86.71	-3.44	.45
51	77	128	-80.61	-4.57	-85.18	6.09	14.15	8.18	20.48	4.00	-1.36	-5.09		52.35	.56	1	5.99	5.63	-84.70	-4.09	.48
51	78	129	-79.57	-5.30	-84.87	7.76	13.85	8.34	21.09	2.48	-3.78	-5.41		52.30	.56	1	6.01	5.64	-84.59	-5.02	.28
51	79	130	-76.52	-6.08	-82.60	5.80	13.56	8.80	21.69	4.89	-2.27	-5.74		52.23	.56	1	6.03	5.65	-82.35	-5.83	.25
51	80	131	-75.08	-6.90	-81.98	7.46	13.26	8.95	22.28	3.39	-4.66	-6.04		52.14	.56	1	6.05	5.65	-82.09	-7.01	-.11
51	81	132	-71.67	-7.77	-79.44	5.53	12.99	9.41	22.88	5.77	-3.16	-6.38		52.02	.56	1	6.07	5.66	-79.59	-7.92	-.15
51	82	133	-69.85	-8.69	-78.54	7.17	12.70	9.55	23.45	4.27	-7.56	-6.68		51.89	.56	1	6.09	5.67	-79.00	-9.15	-.46
51	83	134	-66.08	-7.62	-73.70	3.23	10.40	10.01	24.06	8.65	-6.06	-4.98		51.74	.56	1	6.11	5.68			
51	84	135	-63.90	-6.61	-70.51	4.89	8.11	10.16	24.64	7.15	-8.38	-3.27		51.56	.56	1	6.13	5.69			
51	85	136	-59.79	-5.67	-65.46	3.01	7.90	10.62	25.24	9.46	-6.88	-3.67		51.37	.56	1	6.15	5.69			
51	86	137	-57.26	-4.79	-62.05	4.66	7.68	10.76	25.81	7.96	-9.18	-4.03		51.17	.56	1	6.17	5.70			
51	87	138	-52.82	-3.97	-56.79	2.81	7.48	11.21	26.40	10.25	-7.68	-4.42		50.98	.58	1	6.19	5.71			
51	88	139	-49.96	-3.21	-53.17	4.45	7.26	11.35	26.96	8.75	-9.97	-4.78		50.74	.58	1	6.21	5.72			
51	89	140	-45.19	-2.50	-47.69	2.60	7.05	11.78	27.52	11.03	-8.45	-5.15		50.48	.58	1	6.23	5.73			
51	90	141	-42.02	-1.86	-43.88	4.25	6.86	11.93	28.09	9.52	-10.73	-5.52		50.20	.58	1	6.25	5.73			
51	91	142	-36.94	-1.27	-38.21	2.41	6.66	12.35	28.63	11.78	-9.22	-5.89		49.91	.58	1	6.27	5.74			
51	92	143	-33.45	-.73	-34.18	4.04	6.45	12.48	29.16	10.29	-11.45	-6.23		49.60	.58	1	6.29	5.75			
51	93	144	-28.09	-.25	-28.34	2.23	6.27	12.91	29.71	12.51	-9.96	-6.61		49.28	.58	1	6.31	5.76			
51	94	145	-24.30	.17	-24.13	3.86	6.08	13.04	30.25	11.01	-12.18	-6.96		48.95	.58	1	6.32	5.77			
51	95	146	-18.65	.54	-18.11	2.05	5.91	13.45	30.78	13.22	-10.69	-7.33		48.59	.58	1	6.34	5.77			
51	96	147	-14.57	.87	-13.70	3.67	5.71	13.57	31.29	11.78	-12.88	-7.66		48.23	.58	1	6.36	5.78			
51	97	148	-8.65	1.12	-7.53	1.89	5.57	13.99	31.83	14.12	-11.41	-8.05	.05	47.85	.58	1	6.38	5.79			
51	98	149	-4.29	1.26	-3.03	3.58	5.47	14.20	32.34	12.76	-13.67	-8.47	.08	47.46	.58	1	6.40	5.80			
51	99	150	1.89	1.33	3.22	1.82	5.40	14.71	32.86	15.02	-12.28	-8.93	.10	47.06	.58	1	6.41	5.81			
51	100	151	6.52	1.35	7.87	3.42	5.24	14.92	33.36	13.61	-14.54	-9.29	.11	46.64	.58	1	6.43	5.82			
51	101	152	12.96	1.36	14.32	1.63	5.04	15.39	33.85	15.84	-13.12	-9.60	.11	46.21	.58	1	6.45	5.82			
51	102	153	17.84	1.35	19.19	3.20	4.82	15.54	34.34	14.40	-15.31	-9.88	.11	45.71	.56	1	6.47	5.83			
51	103	154	24.53	1.33	25.86	1.40	4.60	15.93	34.83	16.58	-13.82	-10.16	.11	45.26	.56	1	6.49	5.84			
51	104	155	29.67	1.30	30.97	2.96	4.36	16.00	35.31	15.14	-15.91	-10.41	.11	44.80	.56	1	6.50	5.85			
51	105	156	36.59	1.27	37.86	1.19	4.14	16.31	35.79	17.28	-14.36	-10.68	.11	44.32	.56	1	6.52	5.86			
51	106	157	41.97	1.21	43.18	2.75	3.93	16.32	36.25	15.80	-16.37	-10.95	.10	43.84	.56	1	6.54	5.86			
51	107	158	49.12	1.13	50.25	1.01	3.75	16.59	36.72	17.87	-14.78	-11.24	.08	43.34	.56	1	6.56	5.87			
51	108	159	54.73	.98	55.71	2.61	3.61	16.61	37.17	16.31	-16.78	-11.57	.05	42.83	.56	1	6.57	5.88			
51	109	160	62.11	.72	62.83	.96	3.56	16.95	37.62	18.21	-15.28	-11.99		42.32	.56	1	6.59	5.89			
51	110	161	67.95	.40	68.35	2.55	3.50	17.06	38.07	16.53	-17.35	-12.38		41.79	.56	1	6.61	5.90			
51	111	162	75.54	.04	75.58	.84	3.39	17.41	38.52	18.42	-15.88	-12.72		41.26	.56	1	6.62	5.91			
51	112	163	81.59	-.36	81.23	2.42	3.26	17.52	38.97	16.89	-17.94	-13.03		40.71	.56	1	6.64	5.91			
51	113	164	89.39	-.80	88.59	.71	3.13	17.87	39.41	18.93	-16.47	-13.36		40.16	.56	1	6.66	5.92			
51	114	165	95.66	-1.28	94.38	2.28	2.99	17.96	39.84	17.47	-18.51	-13.66		39.60	.56	1	6.67	5.93			
51	115	166	103.65	-1.79	101.86	.59	2.87	18.32	40.28	19.49	-17.04	-13.99		39.03	.56	1	6.69	5.94			
51	116	167	110.13	-2.34	107.79	2.15	2.73	18.41	40.69	18.04	-19.05	-14.28		38.45	.56	1	6.71	5.95			
51	117	168	118.32	-2.93	115.39	.47	2.61	18.74	41.12	20.05	-17.59	-14.60		37.86	.56	1	6.72	5.95			
51	118	169	124.99	-3.56	121.43	2.02	2.50	18.84	41.54	18.59	-19.60	-14.90		37.27	.56	1	6.74	5.96			
51	119	170	133.36	-4.22	129.14	.36	2.39	19.18	41.97	20.58	-18.15	-15.22		36.67	.56	1	6.76	5.97			
51	120	171	140.23	-4.92	135.31	1.90	2.26	19.27	42.37	19.13	-20.13	-15.51		36.06	.56	1	6.77	5.98			
51	121	172	148.79	-5.65	143.14	.24	2.15	19.59	42.78	21.11	-18.68	-15.81		35.44	.56	1	6.79	5.99			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SADDLE DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
51	122	173	155.84	-6.42	149.42	1.79	2.04	19.68	43.18	19.65	-20.65	-16.11		34.82	.56	1	6.80	6.00			
51	123	174	164.57	-7.22	157.35	.14	1.93	20.01	43.59	21.61	-19.21	-16.41		34.19	.56	1	6.82	6.00			
51	124	175	171.81	-8.05	163.76	1.67	1.81	20.09	43.97	20.18	-21.15	-16.69		33.55	.56	1	6.84	6.01			
51	125	176	180.71	-8.92	171.79	.03	1.71	20.41	44.37	22.12	-19.72	-16.99		32.91	.56	1	6.85	6.02			
51	126	177	188.12	-9.81	178.31	1.56	1.59	20.49	44.74	20.69	-23.62	-17.26		32.18	.54	1	6.87	6.03			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SADDLE DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
52	44	96	9.61	-2.30	7.31	18.82	35.55	-2.76	-7.55	-23.85	17.79	1.95		34.98	.44	2	5.20	5.39			
52	45	97	2.22	-2.85	-.63	16.01	34.83	-2.56	-6.72	-20.84	19.28	1.82		36.14	.44	2	5.23	5.40			
52	46	98	-7.19	-3.47	-10.66	18.10	34.11	-1.96	-5.92	-22.32	16.31	1.74		37.26	.44	2	5.26	5.41			
52	47	99	-13.75	-4.17	-17.92	15.33	33.43	-1.77	-5.11	-19.36	17.80	1.59		38.31	.48	1	5.29	5.42			
52	48	100	-22.33	-4.93	-27.26	17.41	32.74	-1.17	-4.32	-20.83	14.88	1.48		39.32	.48	1	5.31	5.42			
52	49	101	-28.10	-5.76	-33.86	14.68	32.08	-.99	-3.53	-17.90	16.38	1.32		40.28	.48	1	5.34	5.43			
52	50	102	-35.89	-6.66	-42.55	16.76	31.44	-.40	-2.75	-19.38	11.16	1.18		41.19	.48	1	5.37	5.44			
52	51	103	-40.92	-5.60	-46.52	12.04	28.80	.10	-1.33	-14.48	12.38	3.02		42.06	.48	1	5.40	5.45			
52	52	104	-47.94	-4.63	-52.57	14.12	26.17	.96	.03	-15.96	8.99	4.88		42.88	.48	1	5.42	5.46			
52	53	105	-51.69	-3.74	-55.43	10.93	25.06	1.17	.83	-12.57	10.50	4.58		43.66	.50	1	5.45	5.46			
52	54	106	-57.44	-2.94	-60.38	13.02	23.95	1.74	1.61	-13.78	7.72	4.32		44.40	.50	1	5.47	5.47			
52	55	107	-60.52	-2.22	-62.74	10.44	23.45	1.93	2.38	-10.72	9.25	4.01		45.09	.50	1	5.50	5.48	-60.05	.47	2.69
52	56	108	-65.61	-1.58	-67.19	12.52	22.95	2.50	3.15	-12.22	6.50	3.74		45.74	.50	1	5.53	5.49	-65.29	.32	1.90
52	57	109	-68.06	-1.02	-69.08	9.96	22.48	2.68	3.91	-9.47	8.02	3.43		46.35	.50	1	5.55	5.50	-67.42	.64	1.66
52	58	110	-72.51	-.54	-73.05	12.03	22.00	3.23	4.66	-10.98	5.31	3.15		46.93	.52	1	5.57	5.51	-72.12	.39	.93
52	59	111	-74.37	-.13	-74.50	9.52	21.56	3.43	5.42	-8.28	6.82	2.82		47.47	.52	1	5.60	5.51	-73.62	.75	.88
52	60	112	-78.21	.21	-78.00	11.58	21.10	3.96	6.15	-9.77	4.15	2.54		47.96	.52	1	5.62	5.52	-77.65	.56	.35
52	61	113	-79.49	.48	-79.01	9.09	20.66	4.15	6.88	-7.10	5.68	2.22		48.43	.52	1	5.65	5.53	-78.52	.97	.49
52	62	114	-82.75	.68	-82.07	11.13	20.22	4.68	7.59	-8.59	3.04	1.94		48.85	.52	1	5.67	5.54	-82.17	.58	-.10
52	63	115	-83.49	.80	-82.69	8.68	19.82	4.86	8.33	-5.95	4.54	1.59		49.25	.52	1	5.69	5.55	-82.46	1.03	.23
52	64	116	-86.19	.87	-85.32	10.71	19.39	5.38	9.02	-7.40	1.95	1.31		49.62	.54	1	5.72	5.55	-85.46	.73	-.14
52	65	117	-86.40	.87	-85.53	8.28	18.99	5.56	9.73	-4.77	3.47	.98		49.95	.54	1	5.74	5.56	-85.15	1.25	.38
52	66	118	-88.57	.80	-87.77	10.31	18.59	6.06	10.42	-6.27	.89	.68		50.25	.54	1	5.76	5.57	-87.65	.92	.12
52	67	119	-88.28	.67	-87.61	7.91	18.22	6.24	11.12	-3.72	2.40	.34		50.52	.54	1	5.79	5.58	-87.19	1.09	.42
52	68	120	-89.94	.48	-89.46	9.92	17.83	6.74	11.80	-5.25	-.15	.04		50.75	.54	1	5.81	5.59	-89.40	.54	.06
52	69	121	-89.17	.24	-88.93	7.55	17.46	6.91	12.47	-2.72	1.37	-.29		50.96	.54	1	5.83	5.59	-88.59	.58	.34
52	70	122	-90.34	-.07	-90.41	9.55	17.10	7.40	13.13	-4.22	-1.14	-.59		51.14	.54	1	5.85	5.60	-90.30	.04	.11
52	71	123	-89.11	-.43	-89.54	7.20	16.75	7.56	13.80	-1.70	.37	-.93		51.29	.54	1	5.87	5.61	-89.16	-.05	.38
52	72	124	-89.82	-.85	-90.67	9.20	16.40	8.05	14.46	-3.20	-2.13	-1.24		51.42	.54	1	5.90	5.62	-90.51	-.69	.16
52	73	125	-88.14	-1.32	-89.46	6.87	16.06	8.21	15.11	-.71	-.61	-1.57		51.52	.54	1	5.92	5.63	-89.03	-.89	.43
52	74	126	-88.40	-1.85	-90.25	8.86	15.73	8.69	15.75	-2.21	-3.08	-1.89		51.62	.56	1	5.94	5.63	-90.06	-1.66	.19
52	75	127	-86.30	-2.43	-88.73	6.55	15.41	8.84	16.39	.25	-1.57	-2.22		51.67	.56	1	5.96	5.64	-88.29	-1.99	.44
52	76	128	-86.12	-3.06	-89.18	8.52	15.08	9.30	17.01	-1.24	-4.00	-2.53		51.70	.56	1	5.98	5.65	-88.99	-2.87	.19
52	77	129	-83.62	-3.74	-87.36	6.25	14.78	9.46	17.64	1.19	-2.49	-2.87		51.70	.56	1	6.00	5.66	-87.00	-3.38	.36
52	78	130	-83.03	-4.47	-87.50	8.21	14.47	9.92	18.26	-.30	-4.90	-3.18		51.68	.56	1	6.02	5.66	-87.35	-4.32	.15
52	79	131	-80.13	-5.24	-85.37	5.95	14.16	10.06	18.86	2.12	-3.38	-3.50		51.64	.56	1	6.04	5.67	-85.19	-5.06	.18
52	80	132	-79.14	-6.07	-85.21	7.91	13.86	10.51	19.46	.63	-5.77	-3.81		51.58	.56	1	6.06	5.68	-85.19	-6.05	.02
52	81	133	-75.87	-6.94	-82.81	5.67	13.58	10.66	20.07	3.01	-4.27	-4.15		51.50	.56	1	6.08	5.69	-82.90	-7.03	-.09
52	82	134	-74.50	-7.86	-82.36	7.62	13.29	11.10	20.66	1.52	-8.66	-4.46		51.39	.56	1	6.10	5.70	-82.57	-8.07	-.21
52	83	135	-70.87	-6.80	-77.67	3.38	11.00	11.26	21.27	5.90	-7.15	-2.77		51.27	.56	1	6.12	5.70	-77.78	-6.91	-.11
52	84	136	-69.12	-5.80	-74.92	5.33	8.71	11.69	21.85	4.41	-9.46	-1.06		51.12	.56	1	6.14	5.71			
52	85	137	-65.15	-4.86	-70.01	3.16	8.49	11.85	22.46	6.73	-7.96	-1.46		50.96	.56	1	6.16	5.72			
52	86	138	-63.05	-3.99	-67.04	5.10	8.26	12.28	23.04	5.24	-10.26	-1.82		50.78	.56	1	6.18	5.73			
52	87	139	-58.74	-3.18	-61.92	2.95	8.05	12.42	23.63	7.54	-8.75	-2.21		50.58	.56	1	6.20	5.74			
52	88	140	-56.30	-2.42	-58.72	4.88	7.82	12.85	24.19	6.05	-11.02	-2.57		50.36	.56	1	6.22	5.74			
52	89	141	-51.67	-1.73	-53.40	2.74	7.63	12.99	24.78	8.32	-9.53	-2.96		50.13	.56	1	6.24	5.75			
52	90	142	-48.90	-1.09	-49.99	4.66	7.41	13.40	25.33	6.84	-11.78	-3.31		49.88	.56	1	6.26	5.76			
52	91	143	-43.96	-.50	-44.46	2.55	7.21	13.54	25.89	9.10	-10.27	-3.68		49.61	.56	1	6.28	5.77			
52	92	144	-40.88	.02	-40.86	4.46	7.01	13.96	26.45	7.60	-12.52	-4.05		49.33	.56	1	6.30	5.78			
52	93	145	-35.64	.50	-35.14	2.36	6.82	14.09	26.99	9.84	-11.01	-4.41		49.03	.56	1	6.31	5.79			
52	94	146	-32.25	.92	-31.33	4.26	6.62	14.49	27.53	8.37	-13.22	-4.76		48.72	.56	1	6.33	5.79			
52	95	147	-26.72	1.24	-25.48	2.22	6.48	14.66	28.11	10.72	-11.77	-5.18	.07	48.39	.56	1	6.35	5.80			
52	96	148	-23.03	1.39	-21.64	4.23	6.45	15.23	28.80	9.36	-14.12	-5.68	.10	48.05	.56	1	6.37	5.81			
52	97	149	-17.23	1.44	-15.79	2.21	6.45	15.55	29.55	11.63	-12.76	-6.27	.11	47.69	.56	1	6.39	5.82			
52	98	150	-13.26	1.46	-11.80	4.08	6.29	16.06	30.26	10.23	-15.02	-6.81	.12	47.32	.56	1	6.41	5.83			
52	99	151	-7.19	1.45	-5.74	2.01	6.09	16.25	30.95	12.47	-13.61	-7.34	.13	46.94	.56	1	6.42	5.83			
52	100	152	-2.95	1.43	-1.52	3.85	5.86	16.68	31.60	11.06	-15.84	-7.82	.13	46.54	.56	1	6.44	5.84			
52	101	153	3.38	1.41	4.79	1.77	5.61	16.82	32.20	13.28	-14.40	-8.27	.14	46.14	.56	1	6.46	5.85			
52	102	154	7.89	1.39	9.28	3.58	5.35	17.20	32.74	11.86	-16.58	-8.65	.14	45.72	.56	1	6.48	5.86			
52	103	155	14.46	1.37	15.83	1.52	5.10	17.32	33.24	14.04	-15.14	-9.01	.14	45.28	.56	1	6.49	5.87			
52	104	156	19.23	1.35	20.58	3.32	4.84	17.68	33.68	12.62	-17.28	-9.29	.14	44.84	.56	1	6.51	5.87			
52	105	157	26.05	1.33	27.38	1.27	4.60	17.76	34.08	14.77	-15.80	-9.54	.13	44.39	.56	1	6.53	5.88			
52	106	158	31.07	1.32	32.39	3.07	4.34	18.08	34.40	13.35	-17.86	-9.72	.13	43.92	.56	1	6.55	5.89			
52	107	159	38.11	1.29	39.40	1.05	4.12	18.13	34.72	15.46	-16.31	-9.90	.12	43.45	.56	1	6.56	5.90			
52	108	160	43.37	1.25	44.62	2.85	3.90	18.38	34.99	14.00	-18.20	-10.02	.12	42.96	.56	1	6.58	5.91			
52	109	161	50.64	1.18	51.82	.87	3.73	18.29	35.25	16.05	-16.52	-10.15	.10	42.46	.56	1	6.60	5.91			
52	110	162	56.13	1.04	57.17	2.72	3.59	18.47	35.52	14.50	-18.40	-10.28	.07	41.95	.56	1	6.62	5.92			
52	111	163	63.61	.73	64.34	.89	3.62	18.52	35.94	16.32	-16.89	-10.57		41.44	.56	1	6.63	5.93			
52	112	164	69.33	.33	69.66	2.75	3.65	18.86	36.38	14.59	-18.93	-10.88		40.91	.56	1	6.65	5.94			
52	113	165	77.02	-.11	76.91	.82	3.58	18.97	36.84	16.44	-17.47	-11.22		40.38	.56	1	6.67	5.95			
52	114	166	82.95	-.58	82.37	2.62	3.43	19.30	37.27	14.97	-19.49	-11.52		39.83	.56	1	6.68	5.96			
52	115	167	90.85	-1.10	89.75	.69	3.31	19.40	37.71	17.00	-18.03	-11.84		39.28	.56	1	6.70	5.96			
52	116	168	96.99	-1.65	95.34	2.49	3.17	19.74	38.14	15.55	-20.04	-12.14		38.72	.56	1	6.71	5.97			
52	117	169	105.09	-2.24	102.85	.56	3.04	19.83	38.57	17.57	-18.58	-12.46		38.15	.56	1	6.73	5.98			
52	118	170	111.43	-2.87	108.56	2.35	2.92	20.16	39.00	16.12	-20.58	-12.77		37.57	.56	1	6.75	5.99			
52	119	171	119.72	-3.53	116.19	.45	2.80	20.25	39.42	18.12	-19.12	-13.08		36.99	.56	1	6.76	6.00			
52	120	172	126.26	-4.23	122.03	2.22	2.68	20.57	39.84	16.68	-21.11	-13.38		36.40	.56	1	6.78	6.00			
52	121	173	134.73	-4.96	129.77	.33	2.56	20.66	40.25	18.66	-19.65	-13.69		35.72	.54	1	6.80	6.01			
52	122	174	141.46	-5.73	135.73	2.10	2.44	20.98	40.67	17.22	-21.63	-13.99		35.11	.54	1	6.81	6.02			
52	123	175	150.11	-6.53	143.58	.22	2.33	21.06	41.07	19.19	-20.18	-14.29		34.49	.54	1	6.83	6.03			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
52	124	176	157.03	-7.36	149.67	1.98	2.21	21.37	41.47	17.75	-22.12	-14.57		33.87	.54	1	6.84	6.04			
52	125	177	165.85	-8.23	157.62	.11	2.10	21.46	41.87	19.71	-20.68	-14.88		33.24	.54	1	6.86	6.04			
52	126	178	172.95	-9.12	163.83	1.87	1.98	21.76	42.25	18.28	-24.57	-15.15		32.60	.54	1	6.88	6.05			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
53	51	104	-31.90	-4.70	-36.60	12.64	29.58	-2.62	-2.53	-13.14	15.97	3.11		40.37	.48	1	5.41	5.48			
53	52	105	-39.12	-3.74	-42.86	14.33	26.97	-2.42	-1.46	-14.63	12.57	4.96		41.23	.48	1	5.43	5.49			
53	53	106	-43.73	-2.87	-46.60	11.81	26.14	-1.54	-.38	-11.55	13.78	4.69		42.05	.48	1	5.46	5.49			
53	54	107	-49.95	-2.08	-52.03	13.50	25.31	-1.06	.68	-12.76	10.72	4.44		42.82	.48	1	5.48	5.50			
53	55	108	-53.60	-1.37	-54.97	11.01	24.52	-.49	1.45	-9.44	12.22	4.16		43.55	.48	1	5.51	5.51			
53	56	109	-58.87	-.74	-59.61	12.71	23.73	-.29	2.20	-10.94	9.47	3.90		44.25	.50	1	5.54	5.52			
53	57	110	-61.88	-.18	-62.06	10.53	23.23	.27	2.95	-8.20	10.99	3.62		44.90	.50	1	5.56	5.53			
53	58	111	-66.51	.29	-66.22	12.22	22.76	.46	3.70	-9.71	8.27	3.34		45.51	.50	1	5.59	5.53			
53	59	112	-68.92	.69	-68.23	10.07	22.30	1.02	4.45	-7.03	9.77	3.03		46.09	.50	1	5.61	5.54			
53	60	113	-72.94	1.03	-71.91	11.76	21.83	1.21	5.17	-8.50	7.10	2.77		46.62	.50	1	5.63	5.55	-71.32	1.62	.59
53	61	114	-74.76	1.29	-73.47	9.63	21.39	1.75	5.89	-5.72	8.61	2.46		47.12	.50	1	5.66	5.56	-73.47	1.29	-0.
53	62	115	-78.20	1.46	-76.74	11.34	20.97	1.96	6.63	-7.09	5.94	2.16	.06	47.60	.52	1	5.68	5.57	-76.96	1.24	-.22
53	63	116	-79.47	1.54	-77.93	9.26	20.60	2.53	7.40	-4.38	7.39	1.80	.08	48.03	.52	1	5.70	5.57	-78.16	1.31	-.23
53	64	117	-82.34	1.58	-80.76	10.91	20.16	2.73	8.10	-5.80	4.78	1.50	.08	48.43	.52	1	5.73	5.58	-80.84	1.50	-.08
53	65	118	-83.08	1.57	-81.51	8.81	19.73	3.26	8.82	-3.17	6.26	1.18	.08	48.79	.52	1	5.75	5.59	-81.55	1.53	-.04
53	66	119	-85.42	1.53	-83.89	10.46	19.27	3.41	9.47	-4.64	3.72	.92	.07	49.13	.52	1	5.77	5.60	-83.99	1.43	-.10
53	67	120	-85.64	1.44	-84.20	8.39	18.84	3.88	10.12	-2.10	5.26	.64	.05	49.43	.52	1	5.80	5.61	-84.10	1.54	.10
53	68	121	-87.47	1.26	-86.21	10.08	18.47	4.04	10.78	-3.68	2.72	.36		49.70	.52	1	5.82	5.61	-86.22	1.25	-.01
53	69	122	-87.20	1.01	-86.19	8.05	18.13	4.54	11.45	-1.28	4.22	.04		49.96	.54	1	5.84	5.62	-86.16	1.04	.03
53	70	123	-88.54	.70	-87.84	9.72	17.77	4.71	12.12	-2.93	1.70	-.26		50.18	.54	1	5.86	5.63	-87.96	.58	-.12
53	71	124	-87.81	.34	-87.47	7.70	17.42	5.22	12.78	-.53	3.19	-.58		50.36	.54	1	5.88	5.64	-87.35	.46	.12
53	72	125	-88.67	-.08	-88.75	9.36	17.05	5.38	13.42	-2.03	.71	-.87		50.52	.54	1	5.91	5.65	-88.88	-.21	-.13
53	73	126	-87.48	-.56	-88.04	7.35	16.72	5.86	14.08	.44	2.20	-1.20		50.66	.54	1	5.93	5.65	-87.91	-.43	.13
53	74	127	-87.90	-1.08	-88.98	9.01	16.37	6.03	14.71	-1.05	-.25	-1.50		50.76	.54	1	5.95	5.66	-88.98	-1.08	-0.
53	75	128	-86.28	-1.66	-87.94	7.03	16.04	6.51	15.34	1.40	1.24	-1.82		50.85	.54	1	5.97	5.67	-87.74	-1.46	.20
53	76	129	-86.26	-2.29	-88.55	8.68	15.71	6.67	15.97	-.09	-1.20	-2.12		50.90	.54	1	5.99	5.68	-88.50	-2.24	.05
53	77	130	-84.23	-2.97	-87.20	6.72	15.40	7.14	16.59	2.33	.29	-2.45		50.94	.54	1	6.01	5.68	-86.89	-2.66	.31
53	78	131	-83.79	-3.70	-87.49	8.37	15.08	7.29	17.20	.84	-2.12	-2.75		50.95	.54	1	6.03	5.69	-87.44	-3.65	.05
53	79	132	-81.35	-4.48	-85.83	6.41	14.77	7.75	17.81	3.24	-.62	-3.07		50.94	.54	1	6.05	5.70	-85.70	-4.35	.13
53	80	133	-80.51	-5.31	-85.82	8.05	14.47	7.90	18.41	1.75	-3.01	-3.38		50.90	.54	1	6.07	5.71	-85.86	-5.35	-.04
53	81	134	-77.70	-6.18	-83.88	6.13	14.19	8.36	19.02	4.11	-1.53	-3.71		50.85	.54	1	6.09	5.72	-83.97	-6.27	-.09
53	82	135	-76.47	-7.09	-83.56	7.76	13.88	8.50	19.59	2.64	-5.90	-4.00		50.81	.56	1	6.11	5.72	-83.78	-7.31	-.22
53	83	136	-73.29	-6.04	-79.33	3.84	11.60	8.96	20.21	6.99	-4.41	-2.31		50.71	.56	1	6.13	5.73	-79.42	-6.13	-.09
53	84	137	-71.69	-5.05	-76.74	5.48	9.32	9.11	20.80	5.50	-6.73	-.62		50.60	.56	1	6.15	5.74	-76.81	-5.12	-.07
53	85	138	-68.15	-4.13	-72.28	3.61	9.09	9.55	21.40	7.81	-5.24	-1.01		50.46	.56	1	6.17	5.75			
53	86	139	-66.19	-3.26	-69.45	5.24	8.85	9.70	21.98	6.33	-7.53	-1.36		50.31	.56	1	6.19	5.76			
53	87	140	-62.32	-2.45	-64.77	3.39	8.63	10.15	22.56	8.61	-6.05	-1.74		50.14	.56	1	6.21	5.76			
53	88	141	-60.01	-1.71	-61.72	5.02	8.41	10.28	23.13	7.13	-8.32	-2.09		49.95	.56	1	6.23	5.77			
53	89	142	-55.81	-1.02	-56.83	3.18	8.20	10.72	23.71	9.39	-6.84	-2.47		49.74	.56	1	6.25	5.78			
53	90	143	-53.17	-.39	-53.56	4.80	7.98	10.86	24.27	7.91	-9.09	-2.82		49.52	.56	1	6.27	5.79			
53	91	144	-48.65	.19	-48.46	2.97	7.78	11.28	24.83	10.15	-7.61	-3.19		49.27	.56	1	6.29	5.80			
53	92	145	-45.70	.71	-44.99	4.60	7.57	11.42	25.38	8.66	-9.85	-3.54		49.02	.56	1	6.31	5.80			
53	93	146	-40.87	1.17	-39.70	2.78	7.38	11.84	25.93	10.93	-8.37	-3.91	.05	48.74	.56	1	6.32	5.81			
53	94	147	-37.61	1.41	-36.20	4.58	7.36	12.16	26.65	9.55	-10.72	-4.44	.10	48.46	.56	1	6.34	5.82			
53	95	148	-32.49	1.49	-31.00	2.87	7.44	12.81	27.47	11.82	-9.35	-5.08	.12	48.15	.56	1	6.36	5.83			
53	96	149	-28.93	1.51	-27.42	4.50	7.36	13.06	28.29	10.42	-11.63	-5.72	.13	47.84	.56	1	6.38	5.84			
53	97	150	-23.52	1.49	-22.03	2.68	7.18	13.53	29.08	12.67	-10.23	-6.35	.14	47.50	.56	1	6.40	5.84			
53	98	151	-19.67	1.46	-18.21	4.25	6.94	13.70	29.76	11.26	-12.47	-6.93	.14	47.16	.56	1	6.41	5.85			
53	99	152	-14.00	1.42	-12.58	2.44	6.69	14.12	30.38	13.48	-11.06	-7.48	.15	46.80	.56	1	6.43	5.86			
53	100	153	-9.87	1.38	-8.49	3.98	6.42	14.26	30.94	12.07	-13.28	-7.88	.15	46.43	.56	1	6.45	5.87			
53	101	154	-3.93	1.35	-2.58	2.17	6.15	14.66	31.47	14.28	-11.86	-8.22	.15	46.04	.56	1	6.47	5.88			
53	102	155	.47	1.32	1.79	3.70	5.87	14.78	31.98	12.87	-14.04	-8.51	.15	45.64	.56	1	6.49	5.88			
53	103	156	6.66	1.30	7.96	1.90	5.60	15.16	32.48	15.04	-12.62	-8.78	.15	45.23	.56	1	6.50	5.89			
53	104	157	11.32	1.29	12.61	3.43	5.32	15.27	32.94	13.63	-14.77	-9.01	.15	44.81	.56	1	6.52	5.90			
53	105	158	17.76	1.28	19.04	1.64	5.07	15.63	33.40	15.78	-13.34	-9.25	.15	44.38	.56	1	6.54	5.91			
53	106	159	22.67	1.28	23.95	3.16	4.80	15.72	33.81	14.37	-15.45	-9.44	.14	43.93	.56	1	6.56	5.92			
53	107	160	29.34	1.28	30.62	1.40	4.56	16.07	34.21	16.48	-14.00	-9.66	.14	43.48	.56	1	6.57	5.92			
53	108	161	34.49	1.28	35.77	2.93	4.32	16.14	34.52	15.05	-16.05	-9.84	.14	43.01	.56	1	6.59	5.93			
53	109	162	41.40	1.27	42.67	1.18	4.10	16.44	34.73	17.14	-14.49	-10.00	.13	42.53	.56	1	6.61	5.94			
53	110	163	46.79	1.23	48.02	2.72	3.90	16.43	34.90	15.67	-16.32	-10.12	.12	42.04	.56	1	6.62	5.95			
53	111	164	53.92	1.15	55.07	1.02	3.74	16.56	35.08	17.67	-14.59	-10.18	.10	41.55	.56	1	6.64	5.96			
53	112	165	59.53	.95	60.48	2.66	3.68	16.47	35.33	16.06	-16.43	-10.29	.06	41.04	.56	1	6.66	5.96			
53	113	166	66.87	.52	67.39	1.15	3.82	16.81	35.78	17.76	-14.98	-10.61		40.52	.56	1	6.67	5.97			
53	114	167	72.70	.05	72.75	2.72	3.87	16.91	36.21	16.04	-17.00	-10.91		39.92	.54	1	6.69	5.98			
53	115	168	80.26	-.47	79.79	1.03	3.75	17.25	36.65	17.99	-15.55	-11.22		39.39	.54	1	6.71	5.99			
53	116	169	86.30	-1.02	85.28	2.58	3.61	17.35	37.08	16.54	-17.56	-11.53		38.84	.54	1	6.72	6.00			
53	117	170	94.06	-1.61	92.45	.90	3.48	17.69	37.51	18.56	-16.11	-11.84		38.29	.54	1	6.74	6.00			
53	118	171	100.31	-2.24	98.07	2.44	3.35	17.78	37.94	17.11	-18.11	-12.14		37.73	.54	1	6.76	6.01			
53	119	172	108.26	-2.90	105.36	.78	3.23	18.12	38.36	19.10	-16.67	-12.45		37.16	.54	1	6.77	6.02			
53	120	173	114.71	-3.60	111.11	2.31	3.10	18.21	38.78	17.66	-18.66	-12.74		36.58	.54	1	6.79	6.03			
53	121	174	122.84	-4.33	118.51	.67	2.99	18.55	39.21	19.63	-17.23	-13.06		36.00	.54	1	6.80	6.04			
53	122	175	129.49	-5.10	124.39	2.19	2.86	18.63	39.61	18.19	-19.19	-13.35		35.40	.54	1	6.82	6.04			
53	123	176	137.81	-5.89	131.92	.55	2.74	18.95	40.02	20.16	-17.75	-13.64		34.80	.54	1	6.84	6.05			
53	124	177	144.64	-6.73	137.91	2.07	2.63	19.04	40.42	18.72	-19.71	-13.94		34.20	.54	1	6.85	6.06			
53	125	178	153.14	-7.59	145.55	.44	2.51	19.36	40.82	20.67	-18.27	-14.23		33.58	.54	1	6.87	6.07			
53	126	179	160.15	-8.49	151.66	1.96	2.40	19.45	41.22	19.24	-22.17	-14.52		32.96	.54	1	6.88	6.08			
53	140	193	277.95	.55	278.50	.04	-1.48	22.81	47.77	24.42	-25.44	-16.24	.15	23.55	.52	1	7.10	6.19			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
54	46	100	13.26	-1.73	11.53	18.88	35.70	-2.80	-7.61	-23.90	17.96	1.80		33.39	.42	3	5.28	5.47			
54	47	101	5.91	-2.43	3.48	16.12	35.00	-2.62	-6.82	-20.96	19.44	1.69		34.53	.42	3	5.31	5.47			
54	48	102	-3.43	-3.19	-6.62	18.17	34.30	-2.05	-6.06	-22.41	16.55	1.61		35.62	.42	3	5.34	5.48			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
54	49	103	-10.00	-4.03	-14.03	15.47	33.65	-1.85	-5.26	-19.53	18.01	1.46		36.66	.44	2	5.36	5.49			
54	50	104	-18.53	-4.93	-23.46	17.51	32.98	-1.29	-4.51	-20.98	13.15	1.37		37.65	.44	2	5.39	5.50			
54	51	105	-24.34	-3.89	-28.23	12.84	30.35	-1.09	-3.71	-16.13	14.63	3.21		38.60	.44	2	5.42	5.51			
54	52	106	-32.11	-2.94	-35.05	14.90	27.73	-.52	-2.94	-17.59	11.55	5.07		39.50	.48	1	5.44	5.52			
54	53	107	-37.19	-2.08	-39.27	12.29	27.19	-.04	-1.58	-14.79	12.75	4.82		40.36	.48	1	5.47	5.52			
54	54	108	-44.23	-1.30	-45.53	14.33	26.62	.79	-.27	-16.26	9.44	4.62		41.17	.48	1	5.50	5.53			
54	55	109	-48.07	-.60	-48.67	11.21	25.55	.99	.50	-12.94	10.94	4.34		41.94	.48	1	5.52	5.54			
54	56	110	-53.88	.03	-53.85	13.26	24.46	1.54	1.24	-14.14	8.22	4.10		42.67	.48	1	5.55	5.55			
54	57	111	-57.08	.57	-56.51	10.73	23.98	1.73	2.00	-11.15	9.71	3.81		43.36	.48	1	5.57	5.56			
54	58	112	-62.24	1.04	-61.20	12.76	23.49	2.27	2.73	-12.63	7.03	3.56		44.01	.48	1	5.60	5.56			
54	59	113	-64.83	1.42	-63.41	10.28	23.04	2.47	3.49	-9.83	8.50	3.25	.06	44.62	.48	1	5.62	5.57			
54	60	114	-69.37	1.62	-67.75	12.41	22.69	3.12	4.33	-11.18	5.73	2.87	.09	45.21	.50	1	5.64	5.58			
54	61	115	-71.37	1.72	-69.65	9.97	22.39	3.46	5.21	-8.43	7.09	2.42	.11	45.75	.50	1	5.67	5.59	-69.49	1.88	.16
54	62	116	-75.32	1.77	-73.55	11.97	21.94	4.09	6.05	-9.82	4.37	2.02	.12	46.25	.50	1	5.69	5.59	-73.66	1.66	-.11
54	63	117	-76.76	1.80	-74.96	9.48	21.45	4.33	6.86	-7.11	5.80	1.63	.12	46.72	.50	1	5.72	5.60	-74.77	1.99	.19
54	64	118	-80.15	1.81	-78.34	11.45	20.93	4.87	7.60	-8.53	3.16	1.31	.13	47.15	.50	1	5.74	5.61	-78.25	1.90	.09
54	65	119	-81.05	1.81	-79.24	8.97	20.42	5.03	8.28	-5.87	4.65	1.02	.12	47.55	.50	1	5.76	5.62	-79.00	2.05	.24
54	66	120	-83.90	1.79	-82.11	10.93	19.91	5.51	8.92	-7.32	2.10	.79	.12	47.94	.52	1	5.78	5.63	-81.90	2.00	.21
54	67	121	-84.29	1.76	-82.53	8.50	19.43	5.61	9.50	-4.73	3.68	.58	.11	48.27	.52	1	5.81	5.63	-82.43	1.86	.10
54	68	122	-86.61	1.70	-84.91	10.45	18.95	5.99	10.03	-6.21	1.28	.44	.10	48.58	.52	1	5.83	5.64	-85.06	1.55	-.15
54	69	123	-86.51	1.59	-84.92	8.08	18.54	6.01	10.56	-3.72	2.92	.26	.09	48.86	.52	1	5.85	5.65	-85.29	1.22	-.37
54	70	124	-88.33	1.39	-86.94	10.10	18.18	6.39	11.11	-5.31	.53	.09	.05	49.11	.52	1	5.87	5.66	-87.45	.88	-.51
54	71	125	-87.75	1.03	-86.72	7.85	17.95	6.54	11.76	-3.03	2.03	-.21		49.33	.52	1	5.89	5.67	-87.14	.61	-.42
54	72	126	-89.09	.61	-88.48	9.83	17.69	7.01	12.39	-4.73	-.44	-.49		49.52	.52	1	5.92	5.67	-89.16	-.07	-.68
54	73	127	-88.07	.14	-87.93	7.52	17.35	7.18	13.04	-2.36	1.05	-.81		49.68	.52	1	5.94	5.68	-88.32	-.25	-.39
54	74	128	-88.95	-.39	-89.34	9.48	17.00	7.65	13.67	-3.83	-1.40	-1.10		49.85	.54	1	5.96	5.69	-89.86	-.91	-.52
54	75	129	-87.49	-.97	-88.46	7.19	16.67	7.81	14.31	-1.39	.09	-1.42		49.97	.54	1	5.98	5.70	-88.69	-1.20	-.23
54	76	130	-87.92	-1.60	-89.52	9.14	16.32	8.26	14.92	-2.85	-2.32	-1.70		50.06	.54	1	6.00	5.70	-89.88	-1.96	-.36
54	77	131	-86.04	-2.28	-88.32	6.87	16.00	8.41	15.54	-.43	-.83	-2.02		50.12	.54	1	6.02	5.71	-88.41	-2.37	-.09
54	78	132	-86.06	-3.01	-89.07	8.82	15.69	8.87	16.16	-1.91	-3.23	-2.32		50.16	.54	1	6.04	5.72	-89.28	-3.22	-.21
54	79	133	-83.78	-3.79	-87.57	6.57	15.38	9.02	16.77	.48	-1.75	-2.64		50.18	.54	1	6.06	5.73	-87.66	-3.88	-.09
54	80	134	-83.38	-4.61	-87.99	8.50	15.06	9.46	17.36	-.98	-4.11	-2.92		50.18	.54	1	6.08	5.74	-88.12	-4.74	-.13
54	81	135	-80.71	-5.49	-86.20	6.27	14.78	9.61	17.97	1.38	-2.63	-3.25		50.15	.54	1	6.10	5.74	-86.50	-5.79	-.30
54	82	136	-79.92	-6.40	-86.32	8.19	14.47	10.04	18.54	-.08	-6.99	-3.54		50.11	.54	1	6.12	5.75	-86.42	-6.50	-.10
54	83	137	-76.88	-5.36	-82.24	3.99	12.19	10.20	19.15	4.27	-5.50	-1.85		50.04	.54	1	6.14	5.76	-82.21	-5.33	.03
54	84	138	-75.71	-4.38	-80.09	5.92	9.91	10.63	19.75	2.79	-7.81	-.16		49.95	.54	1	6.16	5.77	-80.07	-4.36	.02
54	85	139	-72.32	-3.46	-75.78	3.76	9.68	10.79	20.35	5.10	-6.32	-.54		49.84	.54	1	6.18	5.77	-75.98	-3.66	-.20
54	86	140	-70.78	-2.60	-73.38	5.67	9.43	11.21	20.92	3.63	-8.61	-.88		49.72	.54	1	6.20	5.78	-73.24	-2.46	.14
54	87	141	-67.05	-1.80	-68.85	3.54	9.22	11.37	21.51	5.92	-7.13	-1.26		49.57	.54	1	6.22	5.79			
54	88	142	-65.16	-1.06	-66.22	5.44	8.98	11.79	22.07	4.45	-9.39	-1.60		49.41	.54	1	6.24	5.80			
54	89	143	-61.09	-.38	-61.47	3.32	8.77	11.93	22.65	6.71	-7.91	-1.98		49.23	.54	1	6.26	5.81			
54	90	144	-58.86	.25	-58.61	5.22	8.54	12.34	23.20	5.25	-10.15	-2.31		49.03	.54	1	6.28	5.81			
54	91	145	-54.48	.82	-53.66	3.12	8.34	12.49	23.77	7.49	-8.68	-2.69		48.81	.54	1	6.30	5.82			
54	92	146	-51.92	1.29	-50.63	5.05	8.16	12.93	24.36	6.04	-10.93	-3.07	.07	48.58	.54	1	6.31	5.83			
54	93	147	-47.23	1.48	-45.75	3.19	8.24	13.34	25.19	8.31	-9.55	-3.71	.11	48.33	.54	1	6.33	5.84			
54	94	148	-44.36	1.54	-42.82	5.15	8.33	13.91	26.07	6.91	-11.82	-4.39	.12	48.07	.54	1	6.35	5.85			
54	95	149	-39.36	1.53	-37.83	3.08	8.23	14.12	26.93	9.18	-10.41	-5.11	.13	47.79	.54	1	6.37	5.85			
54	96	150	-36.19	1.49	-34.70	4.93	8.02	14.57	27.63	7.78	-12.67	-5.80	.14	47.49	.54	1	6.39	5.86			
54	97	151	-30.91	1.44	-29.47	2.84	7.78	14.73	28.26	10.03	-11.26	-6.41	.15	47.18	.54	1	6.41	5.87			
54	98	152	-27.45	1.38	-26.07	4.66	7.51	15.14	28.84	8.62	-13.49	-6.85	.15	46.86	.54	1	6.42	5.88			
54	99	153	-21.89	1.33	-20.56	2.57	7.23	15.27	29.39	10.85	-12.07	-7.20	.15	46.52	.54	1	6.44	5.89			
54	100	154	-18.14	1.28	-16.86	4.37	6.94	15.66	29.92	9.45	-14.28	-7.48	.16	46.17	.54	1	6.46	5.89			
54	101	155	-12.32	1.24	-11.08	2.29	6.66	15.79	30.45	11.65	-12.87	-7.76	.16	45.81	.54	1	6.48	5.90			
54	102	156	-8.29	1.21	-7.08	4.07	6.37	16.16	30.94	10.26	-15.04	-7.99	.16	45.43	.54	1	6.49	5.91			
54	103	157	-2.21	1.19	-1.02	2.01	6.09	16.27	31.43	12.44	-13.63	-8.23	.16	45.04	.54	1	6.51	5.92			
54	104	158	2.08	1.18	3.26	3.79	5.80	16.63	31.90	11.04	-15.78	-8.44	.16	44.64	.54	1	6.53	5.93			
54	105	159	8.40	1.18	9.58	1.75	5.54	16.75	32.38	13.19	-14.36	-8.68	.16	44.22	.54	1	6.55	5.93			
54	106	160	12.95	1.19	14.14	3.52	5.26	17.10	32.82	11.80	-16.48	-8.87	.16	43.80	.54	1	6.56	5.94			
54	107	161	19.52	1.20	20.72	1.49	5.01	17.19	33.26	13.93	-15.05	-9.09	.15	43.36	.54	1	6.58	5.95			
54	108	162	24.32	1.22	25.54	3.25	4.74	17.52	33.66	12.53	-17.13	-9.27	.15	42.91	.54	1	6.60	5.96			
54	109	163	31.12	1.24	32.36	1.25	4.50	17.60	34.04	14.63	-15.66	-9.47	.14	42.45	.54	1	6.62	5.96			
54	110	164	36.15	1.25	37.40	3.03	4.28	17.91	34.34	13.20	-17.67	-9.65	.14	41.99	.54	1	6.63	5.97			
54	111	165	43.18	1.24	44.42	1.05	4.08	17.94	34.50	15.25	-16.05	-9.82	.13	41.51	.54	1	6.65	5.98			
54	112	166	48.44	1.19	49.63	2.86	3.91	18.14	34.61	13.77	-17.77	-9.96	.11	41.02	.54	1	6.67	5.99			
54	113	167	55.69	1.03	56.72	.98	3.84	17.97	34.77	15.69	-16.03	-10.05	.08	40.52	.54	1	6.68	6.00			
54	114	168	61.18	.62	61.80	2.99	3.97	18.24	35.15	13.91	-17.99	-10.28		40.01	.54	1	6.70	6.00			
54	115	169	68.63	.10	68.73	1.14	4.13	18.34	35.60	15.60	-16.55	-10.61		39.49	.54	1	6.72	6.01			
54	116	170	74.35	-.45	73.90	2.91	4.04	18.67	36.02	14.09	-18.54	-10.89		38.96	.54	1	6.73	6.02			
54	117	171	82.00	-1.04	80.96	1.01	3.92	18.77	36.46	16.09	-17.11	-11.22		38.43	.54	1	6.75	6.03			
54	118	172	87.92	-1.67	86.25	2.78	3.79	19.10	36.89	14.65	-19.10	-11.51		37.88	.54	1	6.76	6.04			
54	119	173	95.78	-2.33	93.45	.88	3.65	19.19	37.31	16.65	-17.66	-11.82		37.33	.54	1	6.78	6.04			
54	120	174	101.91	-3.03	98.88	2.64	3.52	19.51	37.73	15.22	-19.63	-12.11		36.77	.54	1	6.80	6.05			
54	121	175	109.95	-3.76	106.19	.76	3.40	19.61	38.15	17.20	-18.20	-12.42		36.20	.54	1	6.81	6.06			
54	122	176	116.28	-4.52	111.76	2.51	3.26	19.92	38.55	15.78	-20.16	-12.70		35.62	.54	1	6.83	6.07			
54	123	177	124.51	-5.32	119.19	.64	3.15	20.01	38.97	17.74	-18.72	-13.00		35.04	.54	1	6.84	6.08			
54	124	178	131.03	-6.15	124.88	2.38	3.02	20.32	39.37	16.32	-20.67	-13.28		34.45	.54	1	6.86	6.09			
54	125	179	139.44	-7.02	132.42	.52	2.91	20.41	39.78	18.27	-19.24	-13.59		33.85	.54	1	6.88	6.09			
54	126	180	146.14	-7.91	138.23	2.26	2.79	20.72	40.17	16.85	-23.12	-13.86		33.25	.54	1	6.89	6.10			
54	128	182	161.61	-5.93	155.68	.22	-1.30	21.13	40.98	19.30	-23.60	-10.57		31.92	.52	1	6.92	6.12			
54	130	184	177.43	-4.14	173.29	.13	-1.47	21.52	41.78	19.79	-24.07	-11.22		30.66	.52	1	6.95	6.13			
54	132	186	193.58	-2.51	191.07	.05	-1.63	21.91	42.56	20.28	-24.52	-11.85		29.38	.52	1	6.98	6.15			
54	138	192	243.95	.71	244.66	.33	-1.44	23.50	45.46	21.56	-25.81	-14.35	.13	25.39	.52	1	7.07	6.20			
54	140	194	261.35	.45	261.80	.35	-1.00	24.00	46.80	22.07	-26.30	-16.17	.16	23.91	.50	1	7.10	6.21			
54	142	196	279.03	.11	279.14	.23	-1.20	24.39	47.61	22.58	-26.81	-17.31	.17	22.51	.50	1	7.13	6.23			
54	144	198	297.00	-.22	296.78	.07	-1.50	24.73	48.33	23.10	-27.31	-17.82	.18	21.10	.50	1	7.16	6.25			

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			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
55	53	108	-27.90	-1.37	-29.27	12.86	27.96	-2.71	-2.75	-13.47	16.26	4.91		38.59	.44	2	5.48	5.55			
55	54	109	-35.13	-.60	-35.73	14.53	27.40	-2.52	-1.72	-14.95	12.94	4.71		39.44	.44	2	5.51	5.56			
55	55	110	-39.80	.10	-39.70	12.05	26.57	-1.68	-.69	-11.92	14.16	4.47		40.26	.48	1	5.53	5.57			
55	56	111	-46.07	.71	-45.36	13.72	25.78	-1.21	.33	-13.13	11.15	4.24		41.03	.48	1	5.56	5.58			
55	57	112	-49.81	1.25	-48.56	11.28	25.00	-.66	1.07	-9.87	12.64	3.98		41.75	.48	1	5.58	5.58			
55	58	113	-55.16	1.58	-53.58	13.09	24.37	-.33	1.94	-11.26	9.83	3.60	.09	42.44	.48	1	5.61	5.59			
55	59	114	-58.28	1.72	-56.56	11.05	24.14	.44	2.91	-8.49	11.19	3.08	.12	43.09	.48	1	5.63	5.60			
55	60	115	-63.00	1.78	-61.22	12.72	23.78	.76	3.88	-9.88	8.43	2.58	.13	43.70	.48	1	5.65	5.61			
55	61	116	-65.54	1.81	-63.73	10.58	23.31	1.37	4.83	-7.16	9.82	2.07	.14	44.28	.48	1	5.68	5.61			
55	62	117	-69.66	1.82	-67.84	12.18	22.76	1.58	5.68	-8.55	7.12	1.65	.14	44.82	.48	1	5.70	5.62			
55	63	118	-71.63	1.82	-69.81	10.03	22.22	2.13	6.47	-5.88	8.53	1.24	.14	45.33	.50	1	5.73	5.63			
55	64	119	-75.19	1.82	-73.37	11.63	21.67	2.32	7.18	-7.29	5.88	.95	.15	45.80	.50	1	5.75	5.64			
55	65	120	-76.61	1.82	-74.79	9.49	21.12	2.83	7.87	-4.65	7.31	.71	.14	46.24	.50	1	5.77	5.65			
55	66	121	-79.62	1.82	-77.80	11.08	20.58	2.98	8.49	-6.08	4.73	.54	.14	46.64	.50	1	5.79	5.65			
55	67	122	-80.52	1.82	-78.70	8.98	20.06	3.46	9.07	-3.48	6.21	.38	.14	47.02	.50	1	5.82	5.66			
55	68	123	-83.00	1.81	-81.19	10.57	19.54	3.58	9.56	-4.92	3.72	.27	.13	47.36	.50	1	5.84	5.67	-81.09	1.91	.10
55	69	124	-83.40	1.77	-81.63	8.50	19.08	4.00	10.02	-2.40	5.31	.15	.12	47.67	.50	1	5.86	5.68	-81.55	1.85	.08
55	70	125	-85.39	1.70	-83.69	10.13	18.64	4.04	10.43	-3.90	3.03	.10	.11	47.98	.52	1	5.88	5.69	-84.07	1.32	-.38
55	71	126	-85.30	1.55	-83.75	8.13	18.26	4.32	10.86	-1.49	4.73	.02	.09	48.23	.52	1	5.90	5.69	-84.16	1.14	-.41
55	72	127	-86.81	1.23	-85.58	9.89	18.04	4.38	11.40	-3.19	2.35	-.17		48.46	.52	1	5.93	5.70	-86.23	.58	-.65
55	73	128	-86.26	.76	-85.50	8.00	17.89	4.86	12.04	-1.01	3.84	-.46		48.65	.52	1	5.95	5.71	-85.95	.31	-.45
55	74	129	-87.30	.23	-87.07	9.64	17.64	5.02	12.67	-2.67	1.39	-.74		48.83	.52	1	5.97	5.72	-87.59	-.29	-.52
55	75	130	-86.32	-.35	-86.67	7.67	17.31	5.50	13.31	-.25	2.86	-1.05		48.97	.52	1	5.99	5.72	-86.86	-.54	-.19
55	76	131	-86.91	-.98	-87.89	9.30	16.96	5.65	13.92	-1.71	.44	-1.33		49.09	.52	1	6.01	5.73	-88.06	-1.15	-.17
55	77	132	-85.50	-1.66	-87.16	7.34	16.64	6.12	14.54	.69	1.91	-1.64		49.19	.52	1	6.03	5.74	-87.18	-1.68	-.02
55	78	133	-85.66	-2.39	-88.05	8.96	16.30	6.27	15.14	-.77	-.48	-1.92		49.26	.52	1	6.05	5.75	-88.09	-2.43	-.04
55	79	134	-83.84	-3.17	-87.01	7.03	15.99	6.73	15.75	1.61	.98	-2.24		49.31	.52	1	6.07	5.75	-86.91	-3.07	.10
55	80	135	-83.59	-3.99	-87.58	8.64	15.67	6.88	16.34	.14	-1.38	-2.52		49.34	.52	1	6.09	5.76	-87.66	-4.07	-.08
55	81	136	-81.38	-4.86	-86.24	6.73	15.37	7.33	16.94	2.50	.08	-2.83		49.34	.52	1	6.11	5.77	-86.36	-4.98	-.12
55	82	137	-80.73	-5.77	-86.50	8.34	15.06	7.47	17.51	1.04	-4.26	-3.11		49.36	.54	1	6.13	5.78	-86.56	-5.83	-.06
55	83	138	-78.14	-4.74	-82.88	4.44	12.78	7.93	18.13	5.36	-2.79	-1.43		49.32	.54	1	6.15	5.79	-82.87	-4.73	.01
55	84	139	-77.11	-3.77	-80.88	6.07	10.51	8.08	18.72	3.89	-5.10	.26		49.26	.54	1	6.17	5.79	-80.78	-3.67	.10
55	85	140	-74.16	-2.85	-77.01	4.21	10.27	8.53	19.31	6.19	-3.63	-.10		49.18	.54	1	6.19	5.80	-77.54	-3.38	-.53
55	86	141	-72.76	-2.00	-74.76	5.82	10.02	8.67	19.88	4.72	-5.91	-.44		49.08	.54	1	6.21	5.81	-74.87	-2.11	-.11
55	87	142	-69.45	-1.21	-70.66	3.97	9.79	9.10	20.47	7.00	-4.44	-.81		48.97	.54	1	6.23	5.82	-71.07	-1.62	-.41
55	88	143	-67.71	-.48	-68.19	5.59	9.57	9.26	21.05	5.52	-6.72	-1.16		48.83	.54	1	6.25	5.82			
55	89	144	-64.06	.20	-63.86	3.75	9.34	9.68	21.61	7.78	-5.25	-1.51		48.67	.54	1	6.27	5.83			
55	90	145	-61.97	.82	-61.15	5.36	9.11	9.82	22.17	6.31	-7.50	-1.85		48.50	.54	1	6.29	5.84			
55	91	146	-58.00	1.32	-56.68	3.60	8.96	10.31	22.80	8.52	-6.05	-2.28	.07	48.31	.54	1	6.30	5.85			
55	92	147	-55.58	1.51	-54.07	5.47	9.07	10.72	23.66	7.06	-8.32	-2.93	.11	48.11	.54	1	6.32	5.86			
55	93	148	-51.29	1.56	-49.73	3.74	9.20	11.28	24.61	9.33	-6.91	-3.69	.13	47.88	.54	1	6.34	5.86			
55	94	149	-48.55	1.54	-47.01	5.35	9.09	11.48	25.39	7.93	-9.17	-4.45	.14	47.64	.54	1	6.36	5.87			
55	95	150	-43.96	1.48	-42.48	3.54	8.89	11.93	26.06	10.17	-7.78	-5.21	.15	47.39	.54	1	6.38	5.88			
55	96	151	-40.91	1.42	-39.49	5.09	8.62	12.08	26.65	8.78	-10.02	-5.71	.15	47.12	.54	1	6.40	5.89			
55	97	152	-36.03	1.34	-34.69	3.26	8.36	12.50	27.24	11.01	-8.63	-6.12	.16	46.83	.54	1	6.41	5.90			
55	98	153	-32.69	1.28	-31.41	4.80	8.06	12.64	27.77	9.61	-10.85	-6.42	.16	46.53	.54	1	6.43	5.90			
55	99	154	-27.52	1.21	-26.31	2.97	7.77	13.03	28.31	11.83	-9.45	-6.70	.16	46.22	.54	1	6.45	5.91			
55	100	155	-23.89	1.16	-22.73	4.49	7.46	13.16	28.82	10.43	-11.65	-6.94	.16	45.89	.54	1	6.47	5.92			
55	101	156	-18.46	1.12	-17.34	2.68	7.17	13.55	29.34	12.62	-10.26	-7.19	.16	45.55	.54	1	6.49	5.93			
55	102	157	-14.55	1.09	-13.46	4.20	6.87	13.67	29.83	11.23	-12.44	-7.40	.16	45.19	.54	1	6.50	5.93			
55	103	158	-8.85	1.07	-7.78	2.39	6.59	14.05	30.32	13.41	-11.04	-7.63	.16	44.83	.54	1	6.52	5.94			
55	104	159	-4.67	1.06	-3.61	3.90	6.29	14.16	30.79	12.01	-13.19	-7.82	.16	44.45	.54	1	6.54	5.95			
55	105	160	1.28	1.06	2.34	2.12	6.02	14.53	31.28	14.16	-11.80	-8.05	.16	44.05	.54	1	6.56	5.96			
55	106	161	5.72	1.07	6.79	3.62	5.74	14.63	31.73	12.76	-13.93	-8.24	.16	43.65	.54	1	6.57	5.97			
55	107	162	11.92	1.10	13.02	1.85	5.47	14.99	32.18	14.90	-12.51	-8.44	.16	43.23	.54	1	6.59	5.97			
55	108	163	16.60	1.13	17.73	3.36	5.20	15.10	32.62	13.49	-14.62	-8.64	.16	42.81	.54	1	6.61	5.98			
55	109	164	23.04	1.16	24.20	1.60	4.96	15.44	33.05	15.59	-13.20	-8.85	.15	42.37	.54	1	6.62	5.99			
55	110	165	27.97	1.20	29.17	3.11	4.70	15.52	33.43	14.19	-15.25	-9.03	.15	41.92	.54	1	6.64	6.00			
55	111	166	34.64	1.22	35.86	1.38	4.49	15.84	33.78	16.25	-13.77	-9.24	.14	41.46	.54	1	6.66	6.01			
55	112	167	39.80	1.23	41.03	2.91	4.28	15.89	34.02	14.81	-15.68	-9.42	.13	40.99	.54	1	6.67	6.01			
55	113	168	46.70	1.19	47.89	1.21	4.12	16.11	34.09	16.81	-13.91	-9.60	.11	40.51	.54	1	6.69	6.02			
55	114	169	52.09	1.04	53.13	2.83	4.05	15.96	34.20	15.25	-15.61	-9.77	.08	40.02	.54	1	6.71	6.03			
55	115	170	59.20	.62	59.82	1.38	4.21	16.21	34.55	16.92	-14.07	-10.00		39.52	.54	1	6.72	6.04			
55	116	171	64.81	.06	64.87	3.01	4.40	16.31	34.99	15.14	-16.09	-10.30		39.01	.54	1	6.74	6.05			
55	117	172	72.12	-.53	71.59	1.35	4.37	16.66	35.43	17.06	-14.67	-10.62		38.49	.54	1	6.76	6.05			
55	118	173	77.95	-1.15	76.80	2.87	4.21	16.75	35.84	15.65	-16.65	-10.90		37.97	.54	1	6.77	6.06			
55	119	174	85.47	-1.81	83.66	1.21	4.08	17.08	36.27	17.63	-15.22	-11.21		37.43	.54	1	6.79	6.07			
55	120	175	91.50	-2.51	88.99	2.74	3.95	17.18	36.70	16.20	-17.21	-11.50		36.89	.54	1	6.80	6.08			
55	121	176	99.22	-3.24	95.98	1.08	3.82	17.50	37.11	18.18	-15.78	-11.80		36.25	.52	1	6.82	6.09			
55	122	177	105.45	-4.00	101.45	2.60	3.69	17.60	37.52	16.76	-17.74	-12.08		35.69	.52	1	6.84	6.09			
55	123	178	113.36	-4.80	108.56	.96	3.56	17.92	37.93	18.72	-16.32	-12.38		35.12	.52	1	6.85	6.10			
55	124	179	119.78	-5.63	114.15	2.48	3.44	18.02	38.34	17.29	-18.27	-12.67		34.55	.52	1	6.87	6.11			
55	125	180	127.87	-6.49	121.38	.85	3.32	18.33	38.75	19.23	-16.85	-12.96		33.96	.52	1	6.88	6.12			
55	126	181	134.49	-7.39	127.10	2.35	3.20	18.42	39.14	17.82	-20.73	-13.24		33.37	.52	1	6.90	6.12			
55	128	183	149.56	-5.42	144.14	.31	-.89	18.83	39.95	20.26	-21.21	-9.95		32.16	.52	1	6.93	6.14			
55	130	185	164.98	-3.64	161.34	.22	-1.06	19.24	40.76	20.74	-21.70	-10.60		30.93	.52	1	6.96	6.16			
55	132	187	180.74	-2.02	178.72	.14	-1.23	19.64	41.54	21.23	-22.17	-11.23		29.68	.52	1	6.99	6.17			
55	134	189	196.84	-.58	196.26	.05	-1.39	20.02	42.31	21.70	-22.63	-11.85		28.40	.52	1	7.02	6.19			
55	136	191	213.25	.66	213.91	.02	-1.51	20.45	43.11	22.12	-23.01	-12.51	.07	26.99	.50	1	7.05	6.20			
55	138	193	229.98	.66	230.64	.53	-.58	21.31	44.81	22.42	-23.44	-14.23	.14	25.66	.50	1	7.08	6.22			
55	140	195	247.02	.34	247.36	.45	-.57	21.73	45.73	22.94	-23.93	-15.94	.16	24.31	.50	1	7.11	6.24			
55	142	197	264.35	-.02	264.33	.30	-.83	22.10	46.48	23.46	-24.45	-16.60	.17	22.94	.50	1	7.14	6.25			
55	144	199	281.96	-.35	281.61	.14	-1.14	22.46	47.19	23.97	-24.96	-17.05	.18	21.55	.50	1	7.17	6.27			

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56	48	104	17.47	-1.80	15.67	18.92	35.83	-2.88	-7.72	-23.96	18.15	1.71		31.63	.40	3	5.36	5.54			
56	49	105	10.14	-2.63	7.51	16.23	35.15	-2.70	-6.95	-21.08	19.61	1.61		32.75	.42	3	5.39	5.55			

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
56	50	106	.86	-3.53	-2.67	18.24	34.48	-2.15	-6.21	-22.53	14.79	1.53		33.82	.42	3	5.41	5.56			
56	51	107	-5.71	-2.51	-8.22	13.62	31.87	-1.95	-5.43	-17.73	16.26	3.38		34.84	.42	3	5.44	5.56			
56	52	108	-14.21	-1.58	-15.79	15.65	29.26	-1.39	-4.68	-19.17	13.48	5.24		35.81	.42	3	5.47	5.57			
56	53	109	-20.04	-.74	-20.78	13.05	28.71	-1.20	-3.91	-16.40	14.95	5.02		36.74	.42	3	5.49	5.58			
56	54	110	-27.81	.03	-27.78	15.08	28.13	-.65	-3.17	-17.85	11.93	4.85		37.64	.44	2	5.52	5.59			
56	55	111	-32.94	.71	-32.23	12.52	27.59	-.19	-1.86	-15.10	13.13	4.61		38.49	.44	2	5.54	5.60			
56	56	112	-40.00	1.31	-38.69	14.54	27.05	.62	-.59	-16.56	9.88	4.42	.05	39.29	.44	2	5.57	5.60			
56	57	113	-43.93	1.61	-42.32	11.70	26.23	1.05	.39	-13.28	11.26	3.92	.11	40.06	.44	2	5.59	5.61			
56	58	114	-49.79	1.72	-48.07	13.82	25.52	1.78	1.45	-14.40	8.50	3.36	.13	40.80	.48	1	5.62	5.62			
56	59	115	-53.10	1.76	-51.34	11.34	25.16	2.06	2.51	-11.39	9.88	2.74	.14	41.48	.48	1	5.64	5.63			
56	60	116	-58.34	1.77	-56.57	13.31	24.64	2.64	3.40	-12.77	7.16	2.21	.15	42.13	.48	1	5.66	5.64			
56	61	117	-61.05	1.76	-59.29	10.79	24.09	2.85	4.22	-10.05	8.56	1.69	.15	42.74	.48	1	5.69	5.64			
56	62	118	-65.68	1.75	-63.93	12.72	23.50	3.37	4.96	-11.43	5.88	1.40	.16	43.32	.48	1	5.71	5.65			
56	63	119	-67.82	1.74	-66.08	10.22	22.94	3.56	5.69	-8.76	7.29	1.15	.16	43.86	.48	1	5.74	5.66			
56	64	120	-71.88	1.74	-70.14	12.13	22.35	4.06	6.38	-10.15	4.65	.98	.16	44.36	.48	1	5.76	5.67			
56	65	121	-73.47	1.74	-71.73	9.66	21.79	4.23	7.06	-7.51	6.07	.81	.16	44.84	.48	1	5.78	5.67			
56	66	122	-76.97	1.75	-75.22	11.56	21.23	4.71	7.70	-8.91	3.48	.69	.15	45.27	.48	1	5.80	5.68			
56	67	123	-78.04	1.77	-76.27	9.13	20.69	4.86	8.32	-6.30	4.93	.55	.15	45.68	.48	1	5.83	5.69			
56	68	124	-81.01	1.78	-79.23	11.03	20.16	5.32	8.90	-7.72	2.40	.45	.15	46.08	.50	1	5.85	5.70			
56	69	125	-81.57	1.79	-79.78	8.63	19.65	5.44	9.44	-5.16	3.91	.32	.14	46.42	.50	1	5.87	5.70	-79.57	2.00	.21
56	70	126	-84.04	1.78	-82.26	10.55	19.17	5.87	9.90	-6.62	1.49	.22	.13	46.74	.50	1	5.89	5.71	-82.36	1.68	-.10
56	71	127	-84.12	1.73	-82.39	8.21	18.75	5.93	10.25	-4.15	3.18	.10	.12	47.03	.50	1	5.91	5.72	-82.73	1.39	-.34
56	72	128	-86.09	1.60	-84.49	10.17	18.37	6.21	10.59	-5.68	1.02	.02	.10	47.28	.50	1	5.94	5.73	-85.25	.84	-.76
56	73	129	-85.70	1.30	-84.40	7.98	18.15	6.18	11.05	-3.42	2.67	-.10	.04	47.52	.50	1	5.96	5.74	-85.15	.55	-.75
56	74	130	-87.20	.78	-86.42	10.09	18.07	6.64	11.66	-5.22	.25	-.36		47.72	.50	1	5.98	5.74	-87.30	-.10	-.88
56	75	131	-86.38	.20	-86.18	7.83	17.92	6.80	12.30	-3.00	1.71	-.67		47.90	.50	1	6.00	5.75	-86.72	-.34	-.54
56	76	132	-87.42	-.43	-87.85	9.75	17.57	7.25	12.90	-4.45	-.69	-.94		48.08	.52	1	6.02	5.76	-88.45	-1.03	-.60
56	77	133	-86.17	-1.11	-87.28	7.50	17.25	7.41	13.53	-2.04	.77	-1.25		48.21	.52	1	6.04	5.77	-87.57	-1.40	-.29
56	78	134	-86.78	-1.84	-88.62	9.41	16.91	7.85	14.13	-3.50	-1.61	-1.52		48.31	.52	1	6.06	5.77	-88.96	-2.18	-.34
56	79	135	-85.11	-2.61	-87.72	7.18	16.59	8.00	14.73	-1.11	-.14	-1.82		48.39	.52	1	6.08	5.78	-87.87	-2.76	-.15
56	80	136	-85.30	-3.44	-88.74	9.08	16.27	8.44	15.32	-2.57	-2.50	-2.10		48.45	.52	1	6.10	5.79	-88.90	-3.60	-.16
56	81	137	-83.24	-4.30	-87.54	6.88	15.96	8.59	15.92	-.21	-1.03	-2.40		48.48	.52	1	6.12	5.80	-87.73	-4.49	-.19
56	82	138	-83.02	-5.22	-88.24	8.77	15.65	9.02	16.50	-1.66	-5.36	-2.67		48.49	.52	1	6.14	5.80	-88.27	-5.25	-.03
56	83	139	-80.58	-4.19	-84.77	4.60	13.37	9.18	17.11	2.66	-3.89	-1.00		48.48	.52	1	6.16	5.81	-84.93	-4.35	-.16
56	84	140	-79.98	-3.22	-83.20	6.51	11.10	9.61	17.69	1.20	-6.19	.70		48.45	.52	1	6.18	5.82	-83.24	-3.26	-.04
56	85	141	-77.16	-2.32	-79.48	4.35	10.86	9.75	18.28	3.51	-4.71	.34		48.40	.52	1	6.20	5.83	-79.97	-2.81	-.49
56	86	142	-76.19	-1.47	-77.66	6.25	10.60	10.19	18.86	2.05	-6.99	.01		48.33	.52	1	6.22	5.84	-77.77	-1.58	-.11
56	87	143	-73.02	-.69	-73.71	4.12	10.37	10.33	19.44	4.33	-5.53	-.36		48.24	.52	1	6.24	5.84	-74.01	-.99	-.30
56	88	144	-71.68	.04	-71.64	6.00	10.12	10.74	20.00	2.88	-7.78	-.68		48.13	.52	1	6.26	5.85	-71.80	-.12	-.16
56	89	145	-68.18	.71	-67.47	3.90	9.91	10.90	20.58	5.13	-6.32	-1.05		48.00	.52	1	6.28	5.86			
56	90	146	-66.49	1.29	-65.20	5.81	9.70	11.34	21.17	3.64	-8.53	-1.41	.07	47.85	.52	1	6.30	5.87			
56	91	147	-62.65	1.52	-61.13	4.00	9.81	11.75	22.06	5.84	-7.07	-2.09	.11	47.69	.52	1	6.31	5.87			
56	92	148	-60.63	1.57	-59.06	6.00	10.00	12.29	23.01	4.40	-9.33	-2.87	.13	47.51	.52	1	6.33	5.88			
56	93	149	-56.48	1.54	-54.94	3.95	9.95	12.50	23.77	6.65	-7.93	-3.71	.14	47.31	.52	1	6.35	5.89			
56	94	150	-54.13	1.48	-52.65	5.79	9.73	12.93	24.41	5.26	-10.17	-4.44	.15	47.14	.54	1	6.37	5.90			
56	95	151	-49.67	1.40	-48.27	3.69	9.48	13.08	25.01	7.52	-8.77	-4.95	.15	46.91	.54	1	6.39	5.91			
56	96	152	-47.01	1.32	-45.69	5.49	9.18	13.48	25.57	6.13	-11.00	-5.29	.16	46.67	.54	1	6.41	5.91			
56	97	153	-42.26	1.23	-41.03	3.40	8.90	13.63	26.13	8.36	-9.62	-5.62	.16	46.41	.54	1	6.42	5.92			
56	98	154	-39.29	1.16	-38.13	5.18	8.58	14.01	26.65	6.98	-11.82	-5.85	.16	46.13	.54	1	6.44	5.93			
56	99	155	-34.25	1.09	-33.16	3.09	8.28	14.14	27.18	9.20	-10.43	-6.11	.17	45.84	.54	1	6.46	5.94			
56	100	156	-31.00	1.04	-29.96	4.87	7.97	14.52	27.68	7.81	-12.62	-6.32	.17	45.54	.54	1	6.48	5.94			
56	101	157	-25.68	.99	-24.69	2.80	7.67	14.64	28.19	10.01	-11.23	-6.55	.17	45.22	.54	1	6.49	5.95			
56	102	158	-22.14	.96	-21.18	4.56	7.36	15.01	28.68	8.63	-13.40	-6.75	.17	44.88	.54	1	6.51	5.96			
56	103	159	-16.56	.94	-15.62	2.51	7.07	15.13	29.18	10.81	-12.01	-6.97	.17	44.54	.54	1	6.53	5.97			
56	104	160	-12.75	.93	-11.82	4.27	6.78	15.49	29.66	9.42	-14.16	-7.16	.17	44.18	.54	1	6.55	5.98			
56	105	161	-6.91	.94	-5.97	2.23	6.49	15.60	30.13	11.58	-12.76	-7.37	.17	43.81	.54	1	6.56	5.98			
56	106	162	-2.83	.96	-1.87	3.97	6.20	15.95	30.59	10.20	-14.88	-7.55	.17	43.43	.54	1	6.58	5.99			
56	107	163	3.25	.98	4.23	1.96	5.94	16.07	31.07	12.32	-13.50	-7.78	.16	43.03	.54	1	6.60	6.00			
56	108	164	7.59	1.02	8.61	3.70	5.65	16.41	31.50	10.95	-15.59	-7.95	.16	42.63	.54	1	6.62	6.01			
56	109	165	13.92	1.07	14.99	1.69	5.39	16.51	31.94	13.06	-14.18	-8.16	.16	42.21	.54	1	6.63	6.01			
56	110	166	18.50	1.12	19.62	3.44	5.13	16.84	32.36	11.67	-16.24	-8.34	.15	41.71	.52	1	6.65	6.02			
56	111	167	25.06	1.16	26.22	1.46	4.91	16.93	32.77	13.74	-14.81	-8.56	.15	41.27	.52	1	6.67	6.03			
56	112	168	29.88	1.20	31.08	3.21	4.67	17.24	33.13	12.33	-16.81	-8.75	.14	40.82	.52	1	6.68	6.04			
56	113	169	36.67	1.22	37.89	1.26	4.48	17.29	33.40	14.37	-15.24	-8.95	.13	40.35	.52	1	6.70	6.05			
56	114	170	41.72	1.18	42.90	3.06	4.33	17.52	33.48	12.90	-16.91	-9.16	.11	39.88	.52	1	6.72	6.05			
56	115	171	48.72	1.01	49.73	1.24	4.30	17.37	33.58	14.76	-15.14	-9.41	.08	39.40	.52	1	6.73	6.06			
56	116	172	54.00	.52	54.52	3.28	4.52	17.64	33.95	12.95	-17.08	-9.70		38.91	.52	1	6.75	6.07			
56	117	173	61.22	-.07	61.15	1.44	4.73	17.73	34.39	14.64	-15.65	-10.01		38.41	.52	1	6.76	6.08			
56	118	174	66.72	-.69	66.03	3.20	4.64	18.06	34.81	13.22	-17.63	-10.29		37.89	.52	1	6.78	6.09			
56	119	175	74.14	-1.35	72.79	1.31	4.51	18.16	35.24	15.21	-16.20	-10.59		37.38	.52	1	6.80	6.09			
56	120	176	79.85	-2.05	77.80	3.06	4.37	18.48	35.66	13.79	-18.18	-10.88		36.85	.52	1	6.81	6.10			
56	121	177	87.47	-2.78	84.69	1.18	4.24	18.57	36.08	15.76	-16.76	-11.18		36.31	.52	1	6.83	6.11			
56	122	178	93.38	-3.54	89.84	2.92	4.10	18.90	36.50	14.35	-18.72	-11.47		35.77	.52	1	6.84	6.12			
56	123	179	101.20	-4.34	96.86	1.05	3.98	18.98	36.91	16.31	-17.29	-11.76		35.21	.52	1	6.86	6.12			
56	124	180	107.31	-5.16	102.15	2.79	3.84	19.30	37.30	14.91	-19.23	-12.03		34.65	.52	1	6.88	6.13			
56	125	181	115.31	-6.03	109.28	.93	3.72	19.39	37.72	16.84	-17.82	-12.33		34.08	.52	1	6.89	6.14			
56	126	182	121.62	-6.92	114.70	2.66	3.59	19.69	38.11	15.44	-21.68	-12.60		33.51	.52	1	6.91	6.15			
56	128	184	136.29	-4.96	131.33	.62	-.49	20.10	38.93	17.89	-22.17	-9.33		32.33	.52	1	6.94	6.16			
56	130	186	151.33	-3.19	148.14	.53	-.67	20.49	39.73	18.39	-22.65	-9.97		31.13	.52	1	6.97	6.18			
56	132	188	166.71	-1.58	165.13	.44	-.84	20.88	40.52	18.89	-23.11	-10.59		29.80	.50	1	7.00	6.20			
56	134	190	182.43	-.15	182.28	.35	-1.01	21.27	41.30	19.37	-23.57	-11.21		28.55	.50	1	7.03	6.21			
56	136	192	198.48	.79	199.27	.60	-.84	21.94	42.38	19.63	-23.83	-12.15	.11	27.27	.50	1	7.06	6.23			
56	138	194	214.85	.59	215.44	.85	-.03	22.50	43.80	20.05	-24.29	-14.06	.15	25.96	.50	1	7.09	6.24			
56	140	196	231.52	.23	231.75	.74	-.17	22.89	44.62	20.57	-24.81	-15.34	.17	24.64	.50	1	7.12	6.26			
56	142	198	248.50	-.14	248.36	.58	-.47	23.25	45.36	21.11	-25.32	-15.86	.17	23.29	.50	1	7.15	6.28			
56	144	200	265.77	-.47	265.30	.41	-.80	23.60	46.06	21.64	-25.82	-16.26	.18	21.81	.48	1	7.18	6.29			
56	146	202	283.33	-.76	282.57	.24	-1.13	23.94	46.74	22.17	-26.31	-16.63	.18	20.42	.48	1	7.21	6.31			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
56	148	204	301.16	-1.00	300.16	.07	-1.45	24.27	47.42	22.67	-26.81	-17.00	.18	19.02	.48	1	7.24	6.32			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
57	55	112	-23.38	1.24	-22.14	13.08	28.35	-2.80	-2.99	-13.81	16.55	4.70	.04	36.65	.42	3	5.55	5.62			
57	56	113	-30.62	1.57	-29.05	14.99	28.07	-2.36	-1.73	-15.32	13.27	4.25	.11	37.48	.42	3	5.58	5.63			
57	57	114	-35.35	1.68	-33.67	12.70	27.68	-1.37	-.32	-12.31	14.40	3.61	.14	38.30	.44	2	5.60	5.64			
57	58	115	-41.66	1.71	-39.95	14.35	27.05	-.83	.95	-13.43	11.39	2.98	.15	39.06	.44	2	5.63	5.65			
57	59	116	-45.50	1.70	-43.80	11.92	26.27	-.25	1.81	-10.18	12.77	2.34	.15	39.78	.44	2	5.65	5.66			
57	60	117	-50.91	1.67	-49.24	13.51	25.43	-.04	2.59	-11.57	10.05	1.92	.16	40.46	.44	2	5.67	5.66			
57	61	118	-54.14	1.65	-52.49	11.33	24.83	.49	3.34	-8.86	11.44	1.65	.16	41.14	.48	1	5.70	5.67			
57	62	119	-58.95	1.63	-57.32	12.90	24.23	.68	4.05	-10.24	8.76	1.48	.17	41.75	.48	1	5.72	5.68			
57	63	120	-61.61	1.62	-59.99	10.74	23.64	1.21	4.76	-7.58	10.15	1.32	.17	42.32	.48	1	5.75	5.69			
57	64	121	-65.83	1.61	-64.22	12.30	23.04	1.37	5.43	-8.97	7.50	1.20	.17	42.86	.48	1	5.77	5.69			
57	65	122	-67.93	1.62	-66.31	10.16	22.46	1.87	6.10	-6.34	8.91	1.08	.17	43.37	.48	1	5.79	5.70			
57	66	123	-71.61	1.64	-69.97	11.73	21.89	2.04	6.75	-7.74	6.30	.97	.16	43.84	.48	1	5.81	5.71			
57	67	124	-73.17	1.67	-71.50	9.61	21.33	2.52	7.38	-5.13	7.73	.86	.16	44.28	.48	1	5.84	5.72			
57	68	125	-76.31	1.70	-74.61	11.18	20.79	2.67	7.99	-6.55	5.18	.76	.16	44.69	.48	1	5.86	5.72			
57	69	126	-77.37	1.73	-75.64	9.10	20.27	3.15	8.59	-4.00	6.62	.63	.15	45.07	.48	1	5.88	5.73			
57	70	127	-79.99	1.75	-78.24	10.67	19.77	3.27	9.13	-5.43	4.15	.53	.15	45.42	.48	1	5.90	5.74	-77.73	2.26	.51
57	71	128	-80.56	1.75	-78.81	8.63	19.31	3.71	9.63	-2.95	5.68	.39	.14	45.74	.48	1	5.92	5.75	-78.45	2.11	.36
57	72	129	-82.69	1.71	-80.98	10.24	18.88	3.78	9.99	-4.42	3.42	.28	.12	46.06	.50	1	5.95	5.75	-81.15	1.54	-.17
57	73	130	-82.79	1.59	-81.20	8.30	18.54	4.09	10.27	-2.06	5.22	.13	.10	46.32	.50	1	5.97	5.76	-81.60	1.19	-.40
57	74	131	-84.45	1.26	-83.19	10.06	18.35	4.05	10.70	-3.75	2.99	-.04	.03	46.56	.50	1	5.99	5.77	-83.76	.69	-.57
57	75	132	-84.09	.68	-83.41	8.29	18.35	4.52	11.32	-1.70	4.44	-.33		46.77	.50	1	6.01	5.78	-83.74	.35	-.33
57	76	133	-85.29	.05	-85.24	9.90	18.20	4.67	11.93	-3.31	2.04	-.59		46.95	.50	1	6.03	5.79	-85.67	-.38	-.43
57	77	134	-84.50	-.62	-85.12	7.96	17.86	5.14	12.54	-.91	3.50	-.88		47.11	.50	1	6.05	5.79	-85.25	-.75	-.13
57	78	135	-85.26	-1.35	-86.61	9.56	17.52	5.28	13.14	-2.36	1.11	-1.14		47.25	.50	1	6.07	5.80	-86.83	-1.57	-.22
57	79	136	-84.05	-2.12	-86.17	7.64	17.19	5.74	13.74	.01	2.57	-1.44		47.36	.50	1	6.09	5.81	-86.03	-1.98	.14
57	80	137	-84.39	-2.95	-87.34	9.24	16.87	5.89	14.33	-1.45	.20	-1.71		47.44	.50	1	6.11	5.82	-87.23	-2.84	.11
57	81	138	-82.77	-3.81	-86.58	7.32	16.55	6.33	14.92	.91	1.66	-2.00		47.50	.50	1	6.13	5.82	-86.48	-3.71	.10
57	82	139	-82.71	-4.72	-87.43	8.92	16.24	6.48	15.50	-.54	-2.66	-2.27		47.54	.50	1	6.15	5.83	-87.19	-4.48	.24
57	83	140	-80.70	-3.70	-84.40	5.04	13.96	6.92	16.10	3.76	-1.20	-.59		47.60	.52	1	6.17	5.84	-84.28	-3.58	.12
57	84	141	-80.25	-2.74	-82.99	6.66	11.70	7.08	16.69	2.30	-3.51	1.09		47.60	.52	1	6.19	5.85	-82.97	-2.72	.02
57	85	142	-77.87	-1.84	-79.71	4.80	11.45	7.52	17.28	4.59	-2.05	.75		47.58	.52	1	6.21	5.85	-79.97	-2.10	-.26
57	86	143	-77.03	-1.01	-78.04	6.40	11.19	7.66	17.85	3.14	-4.33	.42		47.54	.52	1	6.23	5.86	-78.21	-1.18	-.17
57	87	144	-74.29	-.22	-74.51	4.55	10.94	8.10	18.42	5.42	-2.87	.08		47.47	.52	1	6.25	5.87	-74.90	-.61	-.39
57	88	145	-73.10	.50	-72.60	6.16	10.70	8.25	19.00	3.95	-5.14	-.26		47.39	.52	1	6.27	5.88	-72.91	.19	-.31
57	89	146	-70.01	1.16	-68.85	4.32	10.48	8.67	19.57	6.20	-3.65	-.61	.03	47.29	.52	1	6.29	5.88	-69.44	.57	-.59
57	90	147	-68.46	1.49	-66.97	6.20	10.52	9.06	20.40	4.61	-5.84	-1.21	.10	47.17	.52	1	6.30	5.89			
57	91	148	-65.03	1.57	-63.46	4.56	10.76	9.61	21.37	6.82	-4.40	-2.03	.13	47.03	.52	1	6.32	5.90			
57	92	149	-63.15	1.55	-61.60	6.21	10.78	9.82	22.12	5.39	-6.66	-2.88	.14	46.87	.52	1	6.34	5.91			
57	93	150	-59.40	1.49	-57.91	4.39	10.59	10.27	22.76	7.65	-5.26	-3.66	.15	46.70	.52	1	6.36	5.92			
57	94	151	-57.18	1.40	-55.78	5.94	10.33	10.42	23.34	6.26	-7.51	-4.14	.15	46.51	.52	1	6.38	5.92			
57	95	152	-53.12	1.30	-51.82	4.10	10.05	10.83	23.92	8.50	-6.12	-4.51	.16	46.30	.52	1	6.40	5.93			
57	96	153	-50.59	1.21	-49.38	5.63	9.74	10.97	24.46	7.12	-8.36	-4.79	.16	46.08	.52	1	6.41	5.94			
57	97	154	-46.23	1.12	-45.11	3.80	9.43	11.38	25.00	9.34	-6.97	-5.06	.17	45.84	.52	1	6.43	5.95			
57	98	155	-43.40	1.04	-42.36	5.32	9.12	11.51	25.53	7.95	-9.20	-5.29	.17	45.59	.52	1	6.45	5.95			
57	99	156	-38.74	.97	-37.77	3.49	8.80	11.90	26.04	10.17	-7.81	-5.51	.17	45.32	.52	1	6.47	5.96			
57	100	157	-35.61	.91	-34.70	5.00	8.49	12.02	26.55	8.78	-10.01	-5.71	.17	45.04	.52	1	6.49	5.97			
57	101	158	-30.68	.87	-29.81	3.18	8.18	12.41	27.05	10.97	-8.62	-5.93	.17	44.74	.52	1	6.50	5.98			
57	102	159	-27.26	.84	-26.42	4.69	7.86	12.53	27.54	9.60	-10.80	-6.11	.17	44.43	.52	1	6.52	5.98			
57	103	160	-22.05	.82	-21.23	2.88	7.56	12.90	28.03	11.77	-9.41	-6.32	.17	44.11	.52	1	6.54	5.99			
57	104	161	-18.36	.81	-17.55	4.38	7.27	13.02	28.51	10.38	-11.58	-6.51	.17	43.77	.52	1	6.56	6.00			
57	105	162	-12.89	.82	-12.07	2.59	6.98	13.39	28.99	12.53	-10.19	-6.71	.17	43.42	.52	1	6.57	6.01			
57	106	163	-8.93	.84	-8.09	4.09	6.68	13.50	29.46	11.15	-12.33	-6.90	.17	43.06	.52	1	6.59	6.02			
57	107	164	-3.21	.87	-2.34	2.32	6.41	13.86	29.93	13.27	-10.95	-7.11	.17	42.68	.52	1	6.61	6.02			
57	108	165	1.01	.92	1.93	3.81	6.12	13.97	30.38	11.90	-13.05	-7.29	.16	42.30	.52	1	6.62	6.03			
57	109	166	6.98	.97	7.95	2.05	5.86	14.32	30.83	14.00	-11.66	-7.49	.16	41.90	.52	1	6.64	6.04			
57	110	167	11.45	1.03	12.48	3.54	5.59	14.42	31.27	12.62	-13.74	-7.67	.16	41.49	.52	1	6.66	6.05			
57	111	168	17.66	1.09	18.75	1.80	5.34	14.76	31.69	14.70	-12.33	-7.88	.15	41.07	.52	1	6.67	6.05			
57	112	169	22.37	1.15	23.52	3.30	5.10	14.85	32.09	13.30	-14.36	-8.07	.15	40.64	.52	1	6.69	6.06			
57	113	170	28.81	1.19	30.00	1.59	4.89	15.17	32.47	15.34	-12.90	-8.29	.14	40.19	.52	1	6.71	6.07			
57	114	171	33.76	1.21	34.97	3.11	4.69	15.22	32.74	13.91	-14.76	-8.49	.13	39.74	.52	1	6.72	6.08			
57	115	172	40.42	1.15	41.57	1.47	4.58	15.45	32.82	15.86	-12.96	-8.74	.11	39.28	.52	1	6.74	6.09			
57	116	173	45.60	.91	46.51	3.13	4.60	15.30	32.94	14.24	-14.64	-9.04	.05	38.80	.52	1	6.76	6.09			
57	117	174	52.47	.34	52.81	1.77	4.91	15.64	33.37	15.80	-13.22	-9.43		38.32	.52	1	6.77	6.10			
57	118	175	57.87	-.29	57.58	3.30	5.07	15.73	33.80	14.20	-15.21	-9.71		37.83	.52	1	6.79	6.11			
57	119	176	64.96	-.95	64.01	1.64	4.94	16.06	34.22	16.18	-13.79	-10.01		37.33	.52	1	6.80	6.12			
57	120	177	70.57	-1.64	68.93	3.15	4.80	16.16	34.64	14.77	-15.76	-10.29		36.82	.52	1	6.82	6.12			
57	121	178	77.86	-2.37	75.49	1.51	4.66	16.49	35.07	16.74	-14.35	-10.59		36.30	.52	1	6.84	6.13			
57	122	179	83.68	-3.13	80.55	3.01	4.52	16.58	35.48	15.33	-16.31	-10.87		35.77	.52	1	6.85	6.14			
57	123	180	91.17	-3.92	87.25	1.38	4.39	16.90	35.88	17.29	-14.90	-11.15		35.23	.52	1	6.87	6.15			
57	124	181	97.19	-4.75	92.44	2.88	4.25	17.00	36.29	15.88	-16.84	-11.43		34.69	.52	1	6.88	6.16			
57	125	182	104.87	-5.61	99.26	1.25	4.13	17.32	36.70	17.82	-15.44	-11.72		34.14	.52	1	6.90	6.16			
57	126	183	111.08	-6.50	104.58	2.75	4.00	17.41	37.10	16.41	-19.30	-12.00		33.48	.50	1	6.92	6.17			
57	128	185	125.36	-4.56	120.80	.71	-.08	17.82	37.92	18.85	-19.80	-8.73		32.34	.50	1	6.95	6.19			
57	130	187	139.99	-2.79	137.20	.62	-.26	18.23	38.73	19.34	-20.29	-9.36		31.16	.50	1	6.98	6.20			
57	132	189	154.98	-1.19	153.79	.53	-.44	18.63	39.51	19.84	-20.77	-9.98		29.96	.50	1	7.01	6.22			
57	134	191	170.32	.23	170.55	.43	-.62	19.02	40.29	20.32	-21.24	-10.60		28.73	.50	1	7.04	6.23			
57	136	193	185.99	.80	186.79	.92	-.10	19.76	41.70	20.47	-21.43	-11.90	.13	27.48	.50	1	7.07	6.25			
57	138	195	201.98	.51	202.49	.96	.44	20.23	42.74	20.92	-21.93	-13.85	.16	26.20	.50	1	7.10	6.27			
57	140	197	218.29	.13	218.42	.83	.22	20.62	43.51	21.44	-22.45	-14.65	.17	24.79	.48	1	7.13	6.28			
57	142	199	234.91	-.24	234.67	.66	-.11	20.98	44.23	21.98	-22.97	-15.11	.18	23.47	.48	1	7.16	6.30			
57	144	201	251.82	-.58	251.24	.49	-.43	21.34	44.94	22.50	-23.49	-15.51	.18	22.12	.48	1	7.19	6.31			
57	146	203	269.03	-.87	268.16	.31	-.77	21.69	45.63	23.02	-24.00	-15.87	.18	20.76	.48	1	7.21	6.33			
57	148	205	286.52	-1.10	285.42	.14	-1.12	22.03	46.30	23.54	-24.50	-16.22	.18	19.38	.48	1	7.24	6.34			

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			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
58	50	108	22.21	-2.44	19.77	18.97	35.95	-2.97	-7.86	-24.03	16.39	1.68		29.72	.40	3	5.43	5.61			
58	51	109	14.90	-1.45	13.45	14.38	33.35	-2.78	-7.09	-19.28	17.83	3.52		30.81	.40	3	5.46	5.62			
58	52	110	5.68	-.54	5.14	16.38	30.77	-2.24	-6.36	-20.72	15.07	5.38		31.85	.40	3	5.49	5.63			
58	53	111	-.89	.29	-.60	13.81	30.20	-2.05	-5.60	-17.96	16.53	5.19		32.85	.40	3	5.51	5.64			
58	54	112	-9.37	1.04	-8.33	15.80	29.61	-1.51	-4.88	-19.40	13.80	5.04		33.83	.42	3	5.54	5.64			
58	55	113	-15.22	1.49	-13.73	13.47	29.28	-1.12	-3.92	-16.79	15.31	4.62	.11	34.75	.42	3	5.56	5.65			
58	56	114	-22.99	1.62	-21.37	15.71	29.19	-.39	-2.74	-18.24	12.30	3.99	.14	35.62	.42	3	5.59	5.66			
58	57	115	-28.16	1.65	-26.51	13.22	28.92	.13	-1.23	-15.47	13.44	3.29	.15	36.46	.42	3	5.61	5.67			
58	58	116	-35.24	1.62	-33.62	15.17	28.40	.95	.12	-16.85	10.18	2.65	.16	37.25	.42	3	5.64	5.67			
58	59	117	-39.26	1.58	-37.68	12.12	27.30	1.16	.92	-13.60	11.56	2.22	.16	38.01	.42	3	5.66	5.68			
58	60	118	-45.18	1.54	-43.64	14.03	26.16	1.69	1.65	-14.71	8.86	2.01	.17	38.74	.44	2	5.69	5.69			
58	61	119	-48.59	1.51	-47.08	11.52	25.55	1.87	2.37	-11.76	10.24	1.84	.17	39.42	.44	2	5.71	5.70			
58	62	120	-53.90	1.48	-52.42	13.41	24.93	2.38	3.07	-13.13	7.57	1.73	.17	40.07	.44	2	5.73	5.71			
58	63	121	-56.72	1.47	-55.25	10.91	24.32	2.55	3.75	-10.45	8.97	1.61	.17	40.68	.44	2	5.76	5.71			
58	64	122	-61.44	1.47	-59.97	12.79	23.70	3.04	4.41	-11.83	6.34	1.54	.17	41.25	.44	2	5.78	5.72			
58	65	123	-63.71	1.48	-62.23	10.33	23.12	3.20	5.08	-9.19	7.74	1.42	.17	41.83	.48	1	5.80	5.73			
58	66	124	-67.87	1.51	-66.36	12.20	22.53	3.69	5.72	-10.57	5.15	1.35	.17	42.34	.48	1	5.82	5.74			
58	67	125	-69.61	1.54	-68.07	9.78	21.98	3.85	6.38	-7.98	6.55	1.23	.17	42.81	.48	1	5.85	5.74			
58	68	126	-73.22	1.58	-71.64	11.64	21.42	4.31	6.99	-9.37	4.00	1.15	.16	43.26	.48	1	5.87	5.75			
58	69	127	-74.44	1.63	-72.81	9.24	20.89	4.46	7.60	-6.81	5.43	1.04	.16	43.67	.48	1	5.89	5.76			
58	70	128	-77.54	1.68	-75.86	11.12	20.36	4.91	8.18	-8.21	2.95	.94	.16	44.05	.48	1	5.91	5.77			
58	71	129	-78.27	1.71	-76.56	8.76	19.89	5.04	8.75	-5.71	4.42	.80	.15	44.41	.48	1	5.93	5.77			
58	72	130	-80.87	1.72	-79.15	10.66	19.43	5.46	9.24	-7.15	2.05	.68	.14	44.73	.48	1	5.95	5.78			
58	73	131	-81.12	1.68	-79.44	8.37	19.03	5.53	9.62	-4.72	3.74	.53	.12	45.03	.48	1	5.98	5.79	-79.46	1.66	-.02
58	74	132	-83.24	1.53	-81.71	10.35	18.71	5.82	9.86	-6.28	1.69	.35	.09	45.29	.48	1	6.00	5.80	-82.34	.90	-.63
58	75	133	-83.03	1.10	-81.93	8.29	18.63	5.81	10.33	-4.16	3.31	.04		45.53	.48	1	6.02	5.80	-82.37	.66	-.44
58	76	134	-84.69	.47	-84.22	10.36	18.65	6.27	10.95	-5.96	.90	-.22		45.75	.48	1	6.04	5.81	-84.75	-.06	-.53
58	77	135	-84.05	-.20	-84.25	8.11	18.46	6.42	11.55	-3.61	2.36	-.50		45.94	.48	1	6.06	5.82	-84.53	-.48	-.28
58	78	136	-85.26	-.93	-86.19	10.01	18.12	6.87	12.15	-5.06	-.02	-.76		46.14	.50	1	6.08	5.83	-86.46	-1.20	-.27
58	79	137	-84.19	-1.70	-85.89	7.78	17.78	7.01	12.75	-2.67	1.44	-1.04		46.28	.50	1	6.10	5.83	-86.03	-1.84	-.14
58	80	138	-84.97	-2.52	-87.49	9.67	17.45	7.44	13.33	-4.11	-.91	-1.30		46.39	.50	1	6.12	5.84	-87.54	-2.57	-.05
58	81	139	-83.50	-3.38	-86.88	7.46	17.13	7.59	13.92	-1.76	.55	-1.58		46.48	.50	1	6.14	5.85	-86.91	-3.41	-.03
58	82	140	-83.87	-4.29	-88.16	9.35	16.81	8.02	14.50	-3.20	-3.76	-1.85		46.55	.50	1	6.16	5.86	-88.04	-4.17	.12
58	83	141	-82.01	-3.28	-85.29	5.20	14.55	8.17	15.10	1.09	-2.30	-.18		46.60	.50	1	6.18	5.86	-85.40	-3.39	-.11
58	84	142	-81.98	-2.33	-84.31	7.09	12.29	8.61	15.69	-.36	-4.60	1.51		46.63	.50	1	6.20	5.87	-84.49	-2.51	-.18
58	85	143	-79.74	-1.43	-81.17	4.94	12.02	8.75	16.27	1.95	-3.13	1.17		46.63	.50	1	6.22	5.88	-81.59	-1.85	-.42
58	86	144	-79.33	-.60	-79.93	6.83	11.77	9.18	16.85	.50	-5.41	.84		46.62	.50	1	6.24	5.89	-80.40	-1.07	-.47
58	87	145	-76.73	.17	-76.56	4.70	11.53	9.33	17.43	2.76	-3.96	.50		46.58	.50	1	6.26	5.90	-77.11	-.38	-.55
58	88	146	-75.94	.89	-75.05	6.57	11.27	9.74	17.99	1.33	-6.21	.19		46.52	.50	1	6.28	5.90	-75.74	.20	-.69
58	89	147	-72.99	1.41	-71.58	4.60	11.17	10.02	18.70	3.45	-4.61	-.30	.09	46.45	.50	1	6.29	5.91	-72.23	.76	-.65
58	90	148	-71.84	1.56	-70.28	6.77	11.38	10.60	19.66	1.92	-6.82	-1.06	.12	46.36	.50	1	6.31	5.92	-70.68	1.16	-.40
58	91	149	-68.56	1.56	-67.00	4.78	11.57	10.82	20.44	4.13	-5.41	-1.96	.14	46.24	.50	1	6.33	5.93			
58	92	150	-67.07	1.50	-65.57	6.65	11.43	11.26	21.09	2.73	-7.66	-2.79	.15	46.11	.50	1	6.35	5.93			
58	93	151	-63.45	1.41	-62.04	4.55	11.19	11.41	21.68	4.99	-6.25	-3.33	.15	46.02	.52	1	6.37	5.94			
58	94	152	-61.63	1.31	-60.32	6.35	10.90	11.82	22.25	3.61	-8.50	-3.68	.16	45.85	.52	1	6.39	5.95			
58	95	153	-57.70	1.20	-56.50	4.25	10.60	11.96	22.81	5.85	-7.11	-3.99	.16	45.67	.52	1	6.41	5.96			
58	96	154	-55.55	1.10	-54.45	6.02	10.27	12.35	23.33	4.48	-9.34	-4.22	.17	45.48	.52	1	6.42	5.96			
58	97	155	-51.32	1.01	-50.31	3.93	9.96	12.49	23.87	6.71	-7.95	-4.46	.17	45.26	.52	1	6.44	5.97			
58	98	156	-48.86	.93	-47.93	5.69	9.62	12.87	24.37	5.35	-10.16	-4.66	.17	45.03	.52	1	6.46	5.98			
58	99	157	-44.34	.85	-43.49	3.62	9.32	13.00	24.91	7.54	-8.79	-4.89	.17	44.79	.52	1	6.48	5.99			
58	100	158	-41.58	.80	-40.78	5.37	8.99	13.37	25.40	6.18	-10.97	-5.07	.17	44.53	.52	1	6.49	5.99			
58	101	159	-36.77	.75	-36.02	3.31	8.68	13.50	25.91	8.37	-9.59	-5.28	.17	44.26	.52	1	6.51	6.00			
58	102	160	-33.72	.72	-33.00	5.06	8.36	13.86	26.39	7.00	-11.76	-5.46	.17	43.97	.52	1	6.53	6.01			
58	103	161	-28.63	.70	-27.93	3.00	8.06	13.98	26.89	9.18	-10.38	-5.66	.17	43.67	.52	1	6.55	6.02			
58	104	162	-25.30	.70	-24.60	4.74	7.75	14.34	27.36	7.81	-12.53	-5.84	.17	43.35	.52	1	6.56	6.03			
58	105	163	-19.95	.71	-19.24	2.71	7.45	14.46	27.85	9.96	-11.15	-6.04	.17	43.02	.52	1	6.58	6.03			
58	106	164	-16.35	.73	-15.62	4.45	7.16	14.81	28.32	8.59	-13.28	-6.23	.17	42.68	.52	1	6.60	6.04			
58	107	165	-10.74	.77	-9.97	2.43	6.87	14.92	28.79	10.72	-11.90	-6.42	.17	42.33	.52	1	6.62	6.05			
58	108	166	-6.87	.82	-6.05	4.16	6.58	15.27	29.24	9.36	-14.00	-6.60	.17	41.96	.52	1	6.63	6.06			
58	109	167	-1.01	.87	-.14	2.15	6.31	15.37	29.70	11.47	-12.62	-6.80	.17	41.59	.52	1	6.65	6.06			
58	110	168	3.11	.94	4.05	3.88	6.04	15.72	30.14	10.10	-14.70	-6.98	.16	41.20	.52	1	6.67	6.07			
58	111	169	9.21	1.01	10.22	1.90	5.78	15.82	30.58	12.19	-13.30	-7.19	.16	40.79	.52	1	6.68	6.08			
58	112	170	13.58	1.08	14.66	3.63	5.53	16.15	31.00	10.80	-15.34	-7.38	.15	40.38	.52	1	6.70	6.09			
58	113	171	19.91	1.15	21.06	1.67	5.30	16.24	31.40	12.86	-13.91	-7.59	.15	39.96	.52	1	6.72	6.09			
58	114	172	24.52	1.19	25.71	3.41	5.09	16.54	31.77	11.45	-15.86	-7.80	.14	39.53	.52	1	6.73	6.10			
58	115	173	31.08	1.20	32.28	1.51	4.92	16.59	32.03	13.45	-14.23	-8.03	.12	39.08	.52	1	6.75	6.11			
58	116	174	35.92	1.09	37.01	3.33	4.85	16.78	32.09	11.93	-15.80	-8.31	.09	38.63	.52	1	6.76	6.12			
58	117	175	42.70	.69	43.39	1.70	5.03	16.71	32.34	13.61	-14.19	-8.77		38.08	.50	1	6.78	6.13			
58	118	176	47.77	.06	47.83	3.62	5.33	17.04	32.77	11.82	-16.18	-9.12		37.60	.50	1	6.80	6.13			
58	119	177	54.75	-.59	54.16	1.75	5.37	17.15	33.21	13.78	-14.77	-9.42		37.12	.50	1	6.81	6.14			
58	120	178	60.04	-1.29	58.75	3.48	5.22	17.46	33.63	12.37	-16.74	-9.70		36.62	.50	1	6.83	6.15			
58	121	179	67.23	-2.01	65.22	1.61	5.08	17.56	34.05	14.34	-15.33	-9.99		36.12	.50	1	6.84	6.16			
58	122	180	72.74	-2.77	69.97	3.33	4.93	17.87	34.45	12.95	-17.27	-10.26		35.61	.50	1	6.86	6.16			
58	123	181	80.13	-3.57	76.56	1.47	4.80	17.97	34.88	14.90	-15.88	-10.56		35.09	.50	1	6.88	6.17			
58	124	182	85.84	-4.39	81.45	3.19	4.66	18.28	35.28	13.51	-17.81	-10.82		34.56	.50	1	6.89	6.18			
58	125	183	93.42	-5.25	88.17	1.35	4.53	18.38	35.69	15.44	-16.41	-11.12		34.02	.50	1	6.91	6.19			
58	126	184	99.33	-6.14	93.19	3.05	4.40	18.68	36.09	14.05	-20.25	-11.38		33.48	.50	1	6.92	6.20			
58	128	186	113.20	-4.20	109.00	1.03	.33	19.09	36.91	16.49	-20.75	-8.12		32.36	.50	1	6.95	6.21			
58	130	188	127.45	-2.45	125.00	.92	.14	19.49	37.72	17.00	-21.24	-8.76		31.22	.50	1	6.98	6.23			
58	132	190	142.06	-.86	141.20	.82	-.05	19.88	38.51	17.51	-21.71	-9.37		30.05	.50	1	7.01	6.24			
58	134	192	157.01	.56	157.57	.73	-.23	20.27	39.29	17.99	-22.07	-9.98		28.85	.50	1	7.05	6.26			
58	136	194	172.31	.78	173.09	1.31	.63	20.99	40.76	18.08	-22.30	-11.62	.14	27.51	.48	1	7.08	6.27			
58	138	196	187.94	.44	188.38	1.26	.85	21.40	41.64	18.56	-22.80	-13.31	.16	26.26	.48	1	7.10	6.29			
58	140	198	203.89	.05	203.94	1.11	.59	21.77	42.39	19.11	-23.31	-13.92	.17	24.99	.48	1	7.13	6.30			
58	142	200	220.15	-.33	219.82	.94	.26	22.13	43.12	19.64	-23.84	-14.36	.18	23.69	.48	1	7.16	6.32			
58	144	202	236.72	-.67	236.05	.76	-.08	22.48	43.82	20.18	-24.35	-14.74	.18	22.37	.48	1	7.19	6.34			
58	146	204	253.58	-.95	252.63	.58	-.43	22.82	44.51	20.72	-24.86	-15.09	.18	21.03	.48	1	7.22	6.35			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
58	148	206	270.73	-1.19	269.54	.41	-.77	23.16	45.20	21.23	-25.36	-15.45	.18	19.68	.48	1	7.25	6.37			
58	150	208	288.16	-1.37	286.79	.24	-1.10	23.49	45.87	21.74	-25.85	-15.79	.19	18.30	.48	1	7.28	6.38			
58	152	210	305.87	-1.49	304.38	.07	-1.44	23.81	46.51	22.26	-26.33	-16.12	.19	16.91	.48	1	7.31	6.40			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
59	57	116	-18.33	1.56	-16.77	13.81	29.78	-2.46	-2.32	-14.26	16.85	2.94	.16	34.56	.42	3	5.62	5.69			
59	58	117	-25.58	1.51	-24.07	15.37	29.18	-2.26	-1.30	-15.63	13.60	2.55	.17	35.39	.42	3	5.65	5.70			
59	59	118	-30.38	1.45	-28.93	12.92	28.30	-1.46	-.29	-12.66	14.70	2.32	.17	36.18	.42	3	5.67	5.71			
59	60	119	-36.73	1.40	-35.33	14.47	27.40	-1.02	.67	-13.77	11.75	2.20	.17	36.94	.42	3	5.70	5.72			
59	61	120	-40.65	1.36	-39.29	12.04	26.51	-.50	1.37	-10.58	13.12	2.09	.18	37.65	.42	3	5.72	5.73			
59	62	121	-46.13	1.33	-44.80	13.58	25.62	-.33	2.05	-11.95	10.45	2.01	.18	38.33	.42	3	5.74	5.73			
59	63	122	-49.47	1.32	-48.15	11.42	25.01	.19	2.74	-9.30	11.82	1.92	.18	38.99	.44	2	5.77	5.74			
59	64	123	-54.36	1.32	-53.04	12.97	24.39	.35	3.40	-10.67	9.19	1.86	.18	39.60	.44	2	5.79	5.75			
59	65	124	-57.13	1.34	-55.79	10.83	23.79	.85	4.06	-8.05	10.58	1.78	.18	40.18	.44	2	5.81	5.76			
59	66	125	-61.45	1.37	-60.08	12.37	23.19	1.01	4.69	-9.42	7.98	1.72	.17	40.72	.44	2	5.83	5.76			
59	67	126	-63.68	1.41	-62.27	10.26	22.62	1.50	5.34	-6.84	9.37	1.62	.17	41.23	.44	2	5.86	5.77			
59	68	127	-67.46	1.46	-66.00	11.80	22.06	1.65	5.96	-8.22	6.81	1.54	.17	41.73	.46	1	5.88	5.78			
59	69	128	-69.17	1.52	-67.65	9.72	21.52	2.13	6.59	-5.67	8.21	1.43	.17	42.19	.48	1	5.90	5.79			
59	70	129	-72.43	1.58	-70.85	11.27	20.99	2.27	7.18	-7.07	5.71	1.34	.16	42.61	.48	1	5.92	5.79			
59	71	130	-73.64	1.64	-72.00	9.22	20.49	2.73	7.77	-4.57	7.14	1.22	.15	42.99	.48	1	5.94	5.80			
59	72	131	-76.40	1.68	-74.72	10.79	20.01	2.86	8.32	-5.99	4.72	1.10	.15	43.35	.48	1	5.96	5.81			
59	73	132	-77.12	1.69	-75.43	8.79	19.57	3.28	8.81	-3.55	6.28	.95	.13	43.68	.48	1	5.99	5.82			
59	74	133	-79.40	1.63	-77.77	10.41	19.20	3.35	9.17	-5.05	4.16	.78	.11	43.98	.48	1	6.01	5.82			
59	75	134	-79.66	1.40	-78.26	8.56	18.97	3.62	9.44	-2.80	5.95	.51	.07	44.25	.48	1	6.03	5.83	-78.55	1.11	-.29
59	76	135	-81.47	.83	-80.64	10.45	19.01	3.72	9.98	-4.64	3.61	.12		44.50	.48	1	6.05	5.84	-80.95	.52	-.31
59	77	136	-81.29	.15	-81.14	8.57	19.02	4.18	10.60	-2.48	5.04	-.16		44.72	.48	1	6.07	5.85	-81.26	.03	-.12
59	78	137	-82.65	-.57	-83.22	10.16	18.72	4.32	11.19	-3.91	2.67	-.41		44.91	.48	1	6.09	5.85	-83.28	-.63	-.06
59	79	138	-82.04	-1.34	-83.38	8.23	18.39	4.78	11.79	-1.55	4.11	-.69		45.08	.48	1	6.11	5.86	-83.10	-1.06	.28
59	80	139	-82.97	-2.16	-85.13	9.82	18.05	4.92	12.37	-2.99	1.76	-.94		45.23	.48	1	6.13	5.87	-84.80	-1.83	.33
59	81	140	-81.94	-3.02	-84.96	7.91	17.73	5.36	12.96	-.65	3.20	-1.21		45.35	.48	1	6.15	5.88	-84.65	-2.71	.31
59	82	141	-82.46	-3.92	-86.38	9.50	17.40	5.51	13.53	-2.08	-1.09	-1.47		45.45	.48	1	6.17	5.88	-85.98	-3.52	.40
59	83	142	-81.03	-2.92	-83.95	5.64	15.13	5.95	14.13	2.19	.35	.21		45.52	.48	1	6.19	5.89	-83.75	-2.72	.20
59	84	143	-81.15	-1.97	-83.12	7.24	12.88	6.11	14.71	.74	-1.94	1.88		45.62	.50	1	6.21	5.90	-83.04	-1.89	.08
59	85	144	-79.34	-1.08	-80.42	5.38	12.61	6.54	15.29	3.04	-.49	1.56		45.65	.50	1	6.23	5.91	-80.72	-1.38	-.30
59	86	145	-79.07	-.26	-79.33	6.97	12.36	6.69	15.87	1.58	-2.78	1.23		45.67	.50	1	6.25	5.91	-79.60	-.53	-.27
59	87	146	-76.89	.51	-76.38	5.12	12.10	7.11	16.44	3.85	-1.33	.91		45.66	.50	1	6.27	5.92	-76.82	.07	-.44
59	88	147	-76.24	1.21	-75.03	6.72	11.85	7.27	17.01	2.40	-3.45	.58	.05	45.63	.50	1	6.28	5.93	-75.43	.81	-.40
59	89	148	-73.71	1.51	-72.20	5.24	11.97	7.91	17.93	4.40	-1.92	-.11	.11	45.58	.50	1	6.30	5.94	-72.48	1.23	-.28
59	90	149	-72.70	1.57	-71.13	7.01	12.24	8.14	18.74	2.91	-4.14	-.96	.13	45.51	.50	1	6.32	5.94	-71.38	1.32	-.25
59	91	150	-69.83	1.53	-68.30	5.24	12.25	8.60	19.42	5.14	-2.74	-1.88	.14	45.43	.50	1	6.34	5.95	-68.66	1.17	-.36
59	92	151	-68.47	1.44	-67.03	6.80	12.04	8.76	20.01	3.74	-4.99	-2.49	.15	45.32	.50	1	6.36	5.96			
59	93	152	-65.26	1.33	-63.93	4.97	11.77	9.18	20.59	5.98	-3.61	-2.89	.16	45.20	.50	1	6.38	5.97			
59	94	153	-63.57	1.22	-62.35	6.49	11.46	9.32	21.14	4.60	-5.85	-3.18	.16	45.06	.50	1	6.40	5.97			
59	95	154	-60.04	1.11	-58.93	4.65	11.14	9.73	21.69	6.84	-4.48	-3.44	.17	44.90	.50	1	6.41	5.98			
59	96	155	-58.02	1.00	-57.02	6.16	10.81	9.86	22.21	5.47	-6.71	-3.66	.17	44.73	.50	1	6.43	5.99			
59	97	156	-54.18	.91	-53.27	4.32	10.48	10.25	22.74	7.69	-5.33	-3.87	.17	44.54	.50	1	6.45	6.00			
59	98	157	-51.85	.82	-51.03	5.82	10.15	10.38	23.25	6.32	-7.55	-4.07	.17	44.33	.50	1	6.47	6.00			
59	99	158	-47.71	.75	-46.96	4.00	9.83	10.77	23.76	8.52	-6.18	-4.27	.17	44.11	.50	1	6.49	6.01			
59	100	159	-45.08	.69	-44.39	5.50	9.50	10.90	24.27	7.15	-8.37	-4.46	.17	43.88	.50	1	6.50	6.02			
59	101	160	-40.65	.65	-40.00	3.69	9.18	11.28	24.77	9.34	-7.00	-4.65	.18	43.63	.50	1	6.52	6.03			
59	102	161	-37.72	.62	-37.10	5.17	8.85	11.39	25.25	7.97	-9.17	-4.82	.18	43.36	.50	1	6.54	6.03			
59	103	162	-33.01	.60	-32.41	3.38	8.55	11.77	25.75	10.13	-7.81	-5.02	.17	43.08	.50	1	6.56	6.04			
59	104	163	-29.80	.60	-29.20	4.86	8.24	11.89	26.23	8.77	-9.96	-5.20	.17	42.79	.50	1	6.57	6.05			
59	105	164	-24.82	.61	-24.21	3.08	7.94	12.26	26.72	10.91	-8.60	-5.40	.17	42.48	.50	1	6.59	6.06			
59	106	165	-21.33	.64	-20.69	4.56	7.63	12.37	27.18	9.55	-10.72	-5.57	.17	42.16	.50	1	6.61	6.06			
59	107	166	-16.09	.68	-15.41	2.79	7.35	12.73	27.65	11.67	-9.36	-5.76	.17	41.83	.50	1	6.62	6.07			
59	108	167	-12.33	.73	-11.60	4.26	7.05	12.84	28.11	10.31	-11.46	-5.93	.17	41.48	.50	1	6.64	6.08			
59	109	168	-6.84	.79	-6.05	2.52	6.78	13.20	28.58	12.41	-10.10	-6.14	.17	41.12	.50	1	6.66	6.09			
59	110	169	-2.82	.86	-1.96	3.99	6.50	13.30	29.02	11.05	-12.18	-6.31	.17	40.75	.50	1	6.67	6.10			
59	111	170	2.92	.94	3.86	2.25	6.24	13.65	29.47	13.13	-10.80	-6.51	.16	40.37	.50	1	6.69	6.10			
59	112	171	7.18	1.02	8.20	3.73	5.98	13.75	29.90	11.76	-12.86	-6.70	.16	39.98	.50	1	6.71	6.11			
59	113	172	13.16	1.09	14.25	2.01	5.75	14.09	30.33	13.80	-11.46	-6.92	.15	39.57	.50	1	6.72	6.12			
59	114	173	17.67	1.16	18.83	3.50	5.51	14.17	30.72	12.42	-13.44	-7.11	.14	39.15	.50	1	6.74	6.13			
59	115	174	23.88	1.20	25.08	1.82	5.32	14.48	31.07	14.42	-11.93	-7.35	.13	38.73	.50	1	6.76	6.13			
59	116	175	28.62	1.16	29.78	3.36	5.19	14.52	31.30	12.96	-13.60	-7.61	.11	38.29	.50	1	6.77	6.14			
59	117	176	35.06	.95	36.01	1.84	5.21	14.66	31.38	14.77	-11.82	-7.99	.06	37.84	.50	1	6.79	6.15			
59	118	177	40.02	.36	40.38	3.70	5.55	14.74	31.78	12.92	-13.78	-8.55		37.39	.50	1	6.80	6.16			
59	119	178	46.68	-.30	46.38	2.07	5.77	15.06	32.21	14.75	-12.37	-8.85		36.92	.50	1	6.82	6.16			
59	120	179	51.86	-.99	50.87	3.58	5.66	15.17	32.64	13.34	-14.35	-9.14		36.44	.50	1	6.84	6.17			
59	121	180	58.73	-1.71	57.02	1.93	5.51	15.49	33.05	15.32	-12.94	-9.42		35.96	.50	1	6.85	6.18			
59	122	181	64.13	-2.47	61.66	3.43	5.36	15.59	33.47	13.92	-14.90	-9.69		35.47	.50	1	6.87	6.19			
59	123	182	71.20	-3.26	67.94	1.79	5.22	15.91	33.88	15.87	-13.50	-9.98		34.96	.50	1	6.88	6.20			
59	124	183	76.81	-4.08	72.73	3.29	5.08	16.01	34.28	14.48	-15.44	-10.24		34.45	.50	1	6.90	6.20			
59	125	184	84.08	-4.94	79.14	1.66	4.94	16.32	34.69	16.41	-14.05	-10.53		33.93	.50	1	6.92	6.21			
59	126	185	89.89	-5.83	84.06	3.15	4.81	16.42	35.10	15.02	-17.89	-10.80		33.40	.50	1	6.93	6.22			
59	128	187	103.36	-3.90	99.46	1.12	.75	16.83	35.92	17.45	-18.40	-7.55		32.32	.50	1	6.96	6.23			
59	130	189	117.21	-2.15	115.06	1.01	.54	17.24	36.72	17.96	-18.89	-8.16		31.11	.48	1	6.99	6.25			
59	132	191	131.42	-.57	130.85	.91	.35	17.64	37.52	18.46	-19.38	-8.78		29.96	.48	1	7.02	6.26			
59	134	193	145.99	.77	146.76	.89	.23	18.11	38.37	18.88	-19.56	-9.45	.08	28.79	.48	1	7.05	6.28			
59	136	195	160.90	.74	161.64	1.44	1.26	18.74	39.73	18.94	-19.93	-11.34	.15	27.59	.48	1	7.08	6.30			
59	138	197	176.15	.38	176.53	1.36	1.26	19.14	40.54	19.44	-20.45	-12.68	.16	26.36	.48	1	7.11	6.31			
59	140	199	191.73	-.02	191.71	1.20	.97	19.52	41.29	19.97	-20.98	-13.21	.17	25.12	.48	1	7.14	6.33			
59	142	201	207.63	-.40	207.23	1.02	.62	19.88	42.01	20.51	-21.51	-13.62	.18	23.85	.48	1	7.17	6.34			
59	144	203	223.84	-.74	223.10	.84	.27	20.24	42.72	21.05	-22.04	-13.99	.18	22.55	.48	1	7.20	6.36			
59	146	205	240.35	-1.02	239.33	.66	-.08	20.59	43.41	21.58	-22.55	-14.34	.18	21.24	.48	1	7.23	6.37			
59	148	207	257.15	-1.26	255.89	.49	-.42	20.94	44.10	22.09	-23.07	-14.69	.18	19.91	.48	1	7.26	6.39			
59	150	209	274.24	-1.43	272.81	.31	-.77	21.28	44.76	22.61	-23.56	-15.03	.19	18.55	.48	1	7.29	6.40			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
59	152	211	291.61	-1.56	290.05	.14	-1.10	21.61	45.43	23.11	-24.06	-15.37	.19	16.91	.44	2	7.31	6.42			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
60	53	113	20.20	1.03	21.23	14.54	31.64	-2.87	-7.25	-19.46	18.17	5.35		28.70	.38	3	5.53	5.69			
60	54	114	11.02	1.43	12.45	16.84	31.39	-2.10	-6.20	-21.16	15.58	4.89	.12	29.76	.40	3	5.56	5.70			
60	55	115	4.45	1.52	5.97	14.56	31.40	-1.81	-5.12	-18.50	17.01	4.14	.14	30.74	.40	3	5.58	5.71			
60	56	116	-4.00	1.50	-2.50	16.54	31.10	-1.25	-4.29	-19.89	14.27	3.40	.16	31.69	.40	3	5.61	5.71			
60	57	117	-9.88	1.44	-8.44	14.00	30.55	-1.04	-3.50	-17.15	15.64	2.87	.17	32.59	.40	3	5.63	5.72			
60	58	118	-17.65	1.38	-16.27	15.90	29.91	-.51	-2.77	-18.51	12.66	2.67	.17	33.45	.40	3	5.66	5.73			
60	59	119	-22.87	1.31	-21.56	13.36	29.26	-.08	-1.54	-15.79	13.76	2.53	.18	34.27	.40	3	5.68	5.74			
60	60	120	-29.97	1.26	-28.71	15.23	28.58	.68	-.35	-17.13	10.58	2.49	.18	35.08	.42	3	5.71	5.74			
60	61	121	-34.06	1.21	-32.85	12.21	27.44	.85	.35	-13.94	11.95	2.40	.18	35.83	.42	3	5.73	5.75			
60	62	122	-40.04	1.19	-38.85	14.08	26.28	1.35	1.02	-15.04	9.29	2.36	.18	36.54	.42	3	5.75	5.76			
60	63	123	-43.54	1.17	-42.37	11.59	25.66	1.51	1.70	-12.15	10.67	2.28	.18	37.22	.42	3	5.78	5.77			
60	64	124	-48.92	1.18	-47.74	13.45	25.03	2.00	2.34	-13.50	8.05	2.25	.18	37.86	.42	3	5.80	5.77			
60	65	125	-51.86	1.20	-50.66	10.99	24.43	2.16	3.01	-10.88	9.43	2.17	.18	38.46	.42	3	5.82	5.78			
60	66	126	-56.66	1.23	-55.43	12.84	23.83	2.63	3.64	-12.24	6.84	2.12	.18	39.06	.44	2	5.84	5.79			
60	67	127	-59.06	1.28	-57.78	10.42	23.26	2.80	4.29	-9.65	8.22	2.03	.18	39.60	.44	2	5.87	5.80			
60	68	128	-63.31	1.34	-61.97	12.26	22.68	3.26	4.91	-11.02	5.68	1.97	.17	40.11	.44	2	5.89	5.80			
60	69	129	-65.19	1.41	-63.78	9.88	22.14	3.42	5.55	-8.47	7.07	1.86	.17	40.59	.44	2	5.91	5.81			
60	70	130	-68.91	1.48	-67.43	11.72	21.60	3.87	6.14	-9.85	4.57	1.78	.17	41.04	.44	2	5.93	5.82			
60	71	131	-70.28	1.55	-68.73	9.37	21.09	4.02	6.75	-7.34	5.99	1.66	.16	41.45	.44	2	5.95	5.83			
60	72	132	-73.50	1.62	-71.88	11.23	20.59	4.46	7.32	-8.74	3.55	1.56	.15	41.84	.44	2	5.97	5.83			
60	73	133	-74.38	1.66	-72.72	8.91	20.14	4.58	7.86	-6.28	5.05	1.41	.14	42.26	.48	1	6.00	5.84			
60	74	134	-77.11	1.65	-75.46	10.81	19.72	4.98	8.33	-7.73	2.80	1.26	.13	42.59	.48	1	6.02	5.85			
60	75	135	-77.53	1.52	-76.01	8.62	19.43	5.03	8.66	-5.42	4.63	1.00	.10	42.90	.48	1	6.04	5.86			
60	76	136	-79.78	1.12	-78.66	10.73	19.34	5.31	9.02	-7.13	2.47	.62		43.17	.48	1	6.06	5.86	-78.80	.98	-.14
60	77	137	-79.75	.45	-79.30	8.71	19.44	5.46	9.63	-5.10	3.92	.21		43.42	.48	1	6.08	5.87	-79.28	.47	.02
60	78	138	-81.55	-.27	-81.82	10.59	19.30	5.89	10.21	-6.56	1.56	-.03		43.65	.48	1	6.10	5.88	-81.80	-.25	.02
60	79	139	-81.09	-1.04	-82.13	8.38	18.97	6.04	10.81	-4.20	2.99	-.30		43.85	.48	1	6.12	5.89	-82.00	-.91	.13
60	80	140	-82.46	-1.86	-84.32	10.25	18.63	6.48	11.41	-5.64	.64	-.56		44.02	.48	1	6.14	5.89	-84.18	-1.72	.14
60	81	141	-81.58	-2.72	-84.30	8.05	18.31	6.62	11.99	-3.30	2.08	-.83		44.18	.48	1	6.16	5.90	-84.18	-2.60	.12
60	82	142	-82.52	-3.62	-86.14	9.91	17.97	7.05	12.56	-4.72	-2.19	-1.07		44.30	.48	1	6.18	5.91	-85.92	-3.40	.22
60	83	143	-81.25	-2.62	-83.87	5.80	15.72	7.21	13.16	-.46	-.75	.59		44.41	.48	1	6.20	5.92	-83.97	-2.72	-.10
60	84	144	-81.78	-1.68	-83.46	7.67	13.46	7.63	13.73	-1.89	-3.03	2.28		44.49	.48	1	6.22	5.92	-83.72	-1.94	-.26
60	85	145	-80.12	-.80	-80.92	5.53	13.20	7.78	14.32	.40	-1.60	1.94		44.55	.48	1	6.24	5.93	-81.40	-1.28	-.48
60	86	146	-80.26	.03	-80.23	7.39	12.92	8.20	14.88	-1.02	-3.85	1.65		44.59	.48	1	6.26	5.94	-80.90	-.64	-.67
60	87	147	-78.22	.79	-77.43	5.27	12.66	8.34	15.46	1.24	-2.40	1.32		44.61	.48	1	6.27	5.95	-78.13	.09	-.70
60	88	148	-77.98	1.38	-76.60	7.24	12.51	8.86	16.13	-.30	-4.40	.90	.08	44.61	.48	1	6.29	5.95	-77.38	.60	-.78
60	89	149	-75.59	1.55	-74.04	5.51	12.75	9.13	17.04	1.71	-2.91	.09	.12	44.59	.48	1	6.31	5.96	-74.38	1.21	-.34
60	90	150	-74.98	1.55	-73.43	7.46	12.97	9.59	17.73	.25	-5.13	-.81	.14	44.54	.48	1	6.33	5.97	-73.66	1.32	-.23
60	91	151	-72.24	1.48	-70.76	5.40	12.86	9.75	18.35	2.49	-3.73	-1.61	.15	44.48	.48	1	6.35	5.98	-70.90	1.34	-.14
60	92	152	-71.28	1.37	-69.91	7.21	12.62	10.16	18.92	1.10	-5.98	-2.05	.16	44.41	.48	1	6.37	5.98	-70.13	1.15	-.22
60	93	153	-68.21	1.25	-66.96	5.12	12.34	10.31	19.50	3.34	-4.61	-2.39	.16	44.36	.50	1	6.39	5.99			
60	94	154	-66.91	1.14	-65.77	6.89	12.00	10.71	20.03	1.98	-6.84	-2.63	.17	44.25	.50	1	6.40	6.00			
60	95	155	-63.51	1.02	-62.49	4.79	11.68	10.85	20.57	4.21	-5.47	-2.87	.17	44.12	.50	1	6.42	6.01			
60	96	156	-61.87	.91	-60.96	6.54	11.33	11.23	21.09	2.86	-7.68	-3.06	.17	43.97	.50	1	6.44	6.01			
60	97	157	-58.16	.81	-57.35	4.46	11.01	11.36	21.62	5.08	-6.32	-3.28	.17	43.80	.50	1	6.46	6.02			
60	98	158	-56.21	.73	-55.48	6.21	10.66	11.74	22.12	3.72	-8.52	-3.45	.17	43.62	.50	1	6.48	6.03			
60	99	159	-52.20	.66	-51.54	4.13	10.34	11.87	22.64	5.92	-7.15	-3.65	.18	43.42	.50	1	6.49	6.04			
60	100	160	-49.93	.60	-49.33	5.86	9.99	12.23	23.13	4.58	-9.33	-3.82	.18	43.21	.50	1	6.51	6.04			
60	101	161	-45.63	.55	-45.08	3.81	9.68	12.36	23.64	6.75	-7.97	-4.02	.18	42.98	.50	1	6.53	6.05			
60	102	162	-43.07	.53	-42.54	5.54	9.35	12.73	24.12	5.40	-10.13	-4.18	.18	42.74	.50	1	6.55	6.06			
60	103	163	-38.48	.51	-37.97	3.50	9.04	12.85	24.62	7.56	-8.77	-4.38	.18	42.48	.50	1	6.56	6.07			
60	104	164	-35.63	.51	-35.12	5.22	8.72	13.21	25.10	6.21	-10.91	-4.55	.18	42.21	.50	1	6.58	6.07			
60	105	165	-30.77	.52	-30.25	3.20	8.43	13.33	25.59	8.35	-9.56	-4.75	.18	41.93	.50	1	6.60	6.08			
60	106	166	-27.64	.55	-27.09	4.92	8.12	13.68	26.06	7.00	-11.68	-4.91	.17	41.63	.50	1	6.62	6.09			
60	107	167	-22.51	.59	-21.92	2.91	7.82	13.79	26.53	9.13	-10.31	-5.10	.17	41.32	.50	1	6.63	6.10			
60	108	168	-19.11	.65	-18.46	4.62	7.52	14.14	26.98	7.78	-12.41	-5.27	.17	40.99	.50	1	6.65	6.10			
60	109	169	-13.72	.71	-13.01	2.62	7.24	14.25	27.45	9.89	-11.04	-5.47	.17	40.66	.50	1	6.67	6.11			
60	110	170	-10.06	.79	-9.27	4.34	6.95	14.60	27.90	8.54	-13.13	-5.64	.17	40.31	.50	1	6.68	6.12			
60	111	171	-4.42	.87	-3.55	2.35	6.68	14.70	28.35	10.63	-11.75	-5.84	.16	39.95	.50	1	6.70	6.13			
60	112	172	-.50	.96	.46	4.06	6.41	15.03	28.78	9.27	-13.80	-6.01	.16	39.57	.50	1	6.72	6.13			
60	113	173	5.37	1.04	6.41	2.11	6.18	15.13	29.22	11.32	-12.42	-6.23	.16	39.19	.50	1	6.73	6.14			
60	114	174	9.54	1.12	10.66	3.82	5.94	15.45	29.63	9.95	-14.42	-6.43	.15	38.79	.50	1	6.75	6.15			
60	115	175	15.64	1.18	16.82	1.91	5.74	15.55	30.03	11.97	-12.96	-6.66	.14	38.39	.50	1	6.76	6.16			
60	116	176	20.05	1.19	21.24	3.66	5.56	15.83	30.35	10.55	-14.77	-6.90	.12	37.97	.50	1	6.78	6.16			
60	117	177	26.38	1.07	27.45	1.86	5.52	15.84	30.51	12.43	-12.93	-7.25	.09	37.54	.50	1	6.80	6.17			
60	118	178	31.02	.61	31.63	3.90	5.75	16.05	30.78	10.67	-14.75	-7.81		37.10	.50	1	6.81	6.18			
60	119	179	37.57	-.05	37.52	2.18	6.08	16.15	31.22	12.36	-13.36	-8.29		36.65	.50	1	6.83	6.19			
60	120	180	42.44	-.74	41.70	3.89	6.07	16.46	31.63	10.97	-15.32	-8.55		36.20	.50	1	6.84	6.20			
60	121	181	49.20	-1.46	47.74	2.03	5.93	16.57	32.06	12.93	-13.92	-8.84		35.73	.50	1	6.86	6.20			
60	122	182	54.29	-2.22	52.07	3.74	5.78	16.88	32.47	11.55	-15.87	-9.11		35.25	.50	1	6.88	6.21			
60	123	183	61.26	-3.01	58.25	1.89	5.64	16.97	32.89	13.50	-14.48	-9.40		34.67	.48	1	6.89	6.22			
60	124	184	66.56	-3.83	62.73	3.59	5.49	17.28	33.29	12.12	-16.41	-9.66		34.18	.48	1	6.91	6.23			
60	125	185	73.73	-4.68	69.05	1.75	5.35	17.38	33.70	14.06	-15.01	-9.94		33.67	.48	1	6.92	6.23			
60	126	186	79.23	-5.57	73.66	3.45	5.21	17.69	34.11	12.67	-18.85	-10.21		33.16	.48	1	6.94	6.24			
60	128	188	92.30	-3.65	88.65	1.43	1.16	18.10	34.93	15.11	-19.35	-6.96		32.11	.48	1	6.97	6.26			
60	130	190	105.75	-1.91	103.84	1.33	.95	18.50	35.74	15.62	-19.85	-7.58		31.02	.48	1	7.00	6.27			
60	132	192	119.58	-.33	119.25	1.22	.74	18.89	36.53	16.15	-20.33	-8.18		29.91	.48	1	7.03	6.29			
60	134	194	133.77	.85	134.62	1.33	.77	19.42	37.54	16.42	-20.39	-9.00	.10	28.77	.48	1	7.06	6.30			
60	136	196	148.31	.71	149.02	1.76	1.75	19.92	38.65	16.59	-20.80	-10.98	.15	27.60	.48	1	7.09	6.32			
60	137	197	156.57	.53	157.10	-	1.75	20.01	39.05	18.45	-19.43	-11.65	.16	27.00	.48	1	7.10	6.33			
60	138	198	163.20	.33	163.53	1.64	1.63	20.30	39.43	17.11	-21.30	-11.99	.17	26.40	.48	1	7.12	6.33			
60	140	200	178.41	-.08	178.33	1.48	1.33	20.67	40.19	17.65	-21.85	-12.48	.17	25.18	.48	1	7.15	6.35			
60	142	202	193.95	-.46	193.49	1.30	.99	21.03	40.91	18.20	-22.38	-12.87	.18	23.94	.48	1	7.18	6.36			
60	144	204	209.81	-.79	209.02	1.11	.62	21.38	41.61	18.75	-22.89	-13.23	.18	22.67	.48	1	7.21	6.38			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SADDLE DEF	I	SHARP RADIUS NEU	SHARP RADIUS PRO	EXPERIMENTAL MASS	EXPERIMENTAL SHELL	EXPERIMENTAL DIFF
60	146	206	225.97	-1.08	224.89	.93	.27	21.72	42.32	19.28	-23.42	-13.59	.18	21.38	.48	1	7.24	6.39			
60	148	208	242.43	-1.31	241.12	.75	-.08	22.06	43.00	19.81	-23.93	-13.93	.18	19.94	.46	1	7.26	6.41			
60	150	210	259.19	-1.48	257.71	.57	-.44	22.39	43.66	20.34	-24.41	-14.26	.19	18.47	.44	2	7.29	6.43			
60	152	212	276.22	-1.60	274.62	.40	-.77	22.73	44.33	20.85	-24.91	-14.60	.18	17.11	.44	2	7.32	6.44			
60	154	214	293.53	-1.67	291.86	.23	-1.10	23.05	44.99	21.35	-25.39	-14.94	.19	15.74	.44	2	7.35	6.46			
60	156	216	311.12	-1.68	309.44	.06	-1.43	23.36	45.63	21.86	-25.86	-15.26	.19	14.36	.44	2	7.38	6.47			
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx																					
61	59	120	-12.76	1.18	-11.58	13.88	29.96	-2.68	-2.77	-14.58	17.13	2.77	.18	32.32	.40	3	5.69	5.76			
61	60	121	-20.03	1.12	-18.91	15.40	29.28	-2.51	-1.84	-15.93	13.94	2.74	.18	33.13	.40	3	5.72	5.77			
61	61	122	-24.88	1.07	-23.81	12.97	28.37	-1.75	-.90	-13.01	15.04	2.69	.18	33.91	.40	3	5.74	5.78			
61	62	123	-31.27	1.05	-30.22	14.49	27.45	-1.34	.00	-14.11	12.15	2.68	.18	34.65	.40	3	5.76	5.79			
61	63	124	-35.28	1.04	-34.24	12.09	26.58	-.83	.67	-10.98	13.50	2.62	.18	35.39	.42	3	5.79	5.79			
61	64	125	-40.82	1.04	-39.78	13.61	25.70	-.68	1.32	-12.34	10.88	2.59	.18	36.07	.42	3	5.81	5.80			
61	65	126	-44.26	1.06	-43.20	11.49	25.10	-.18	1.99	-9.74	12.23	2.52	.18	36.71	.42	3	5.83	5.81			
61	66	127	-49.23	1.10	-48.13	13.01	24.49	-.02	2.62	-11.10	9.65	2.48	.18	37.31	.42	3	5.85	5.82			
61	67	128	-52.11	1.15	-50.96	10.90	23.91	.46	3.26	-8.53	11.02	2.40	.18	37.89	.42	3	5.88	5.82			
61	68	129	-56.53	1.22	-55.31	12.43	23.33	.62	3.88	-9.89	8.47	2.35	.18	38.43	.42	3	5.90	5.83			
61	69	130	-58.88	1.30	-57.58	10.35	22.77	1.09	4.51	-7.34	9.85	2.27	.17	38.93	.42	3	5.92	5.84			
61	70	131	-62.77	1.38	-61.39	11.88	22.22	1.25	5.12	-8.72	7.34	2.19	.17	39.45	.44	2	5.94	5.85			
61	71	132	-64.61	1.46	-63.15	9.83	21.71	1.71	5.73	-6.22	8.73	2.08	.16	39.89	.44	2	5.96	5.85			
61	72	133	-67.99	1.54	-66.45	11.37	21.20	1.86	6.31	-7.62	6.27	1.98	.16	40.31	.44	2	5.98	5.86			
61	73	134	-69.34	1.61	-67.73	9.36	20.73	2.30	6.88	-5.16	7.73	1.84	.15	40.70	.44	2	6.00	5.87			
61	74	135	-72.22	1.63	-70.59	10.93	20.29	2.42	7.40	-6.59	5.41	1.70	.14	41.06	.44	2	6.03	5.88			
61	75	136	-73.10	1.57	-71.53	9.01	19.94	2.82	7.85	-4.24	7.13	1.48	.11	41.40	.44	2	6.05	5.88			
61	76	137	-75.51	1.31	-74.20	10.74	19.75	2.82	8.14	-5.86	5.11	1.15	.07	41.70	.44	2	6.07	5.89			
61	77	138	-75.93	.68	-75.25	9.13	19.86	3.23	8.69	-3.88	6.58	.59		42.02	.46	1	6.09	5.90			
61	78	139	-77.89	-.04	-77.93	10.75	19.88	3.39	9.29	-5.43	4.21	.29		42.31	.48	1	6.11	5.90	-77.50	.39	.43
61	79	140	-77.87	-.81	-78.68	8.82	19.57	3.83	9.88	-3.08	5.63	.03		42.54	.48	1	6.13	5.91	-78.28	-.41	.40
61	80	141	-79.39	-1.62	-81.01	10.40	19.23	3.98	10.46	-4.51	3.29	-.22		42.75	.48	1	6.15	5.92	-80.45	-1.06	.56
61	81	142	-78.95	-2.47	-81.42	8.49	18.88	4.41	11.04	-2.17	4.72	-.47		42.93	.48	1	6.17	5.93	-81.10	-2.15	.32
61	82	143	-80.04	-3.37	-83.41	10.06	18.55	4.56	11.61	-3.59	.45	-.71		43.09	.48	1	6.19	5.93	-82.90	-2.86	.51
61	83	144	-79.20	-2.38	-81.58	6.24	16.30	5.00	12.21	.64	1.88	.96		43.22	.48	1	6.21	5.94	-81.34	-2.14	.24
61	84	145	-79.88	-1.44	-81.32	7.82	14.05	5.16	12.78	-.78	-.41	2.64		43.33	.48	1	6.23	5.95	-81.23	-1.35	.09
61	85	146	-78.64	-.57	-79.21	5.96	13.78	5.58	13.36	1.49	1.02	2.32		43.42	.48	1	6.25	5.96	-79.42	-.78	-.21
61	86	147	-78.92	.25	-78.67	7.53	13.50	5.73	13.92	.07	-1.24	2.02		43.49	.48	1	6.26	5.96	-79.02	-.10	-.35
61	87	148	-77.31	1.01	-76.30	5.70	13.24	6.16	14.50	2.32	.30	1.70		43.53	.48	1	6.28	5.97	-76.85	.46	-.55
61	88	149	-77.21	1.46	-75.75	7.53	13.22	6.44	15.30	.65	-1.71	1.15	.10	43.56	.48	1	6.30	5.98	-76.05	1.16	-.30
61	89	150	-75.23	1.55	-73.68	6.00	13.53	6.93	16.06	2.71	-.24	.27	.13	43.56	.48	1	6.32	5.99	-73.53	1.70	.15
61	90	151	-74.76	1.51	-73.25	7.64	13.64	7.10	16.69	1.25	-2.48	-.64	.14	43.55	.48	1	6.34	5.99	-73.37	1.39	-.12
61	91	152	-72.43	1.42	-71.01	5.83	13.47	7.53	17.29	3.48	-1.10	-1.24	.15	43.52	.48	1	6.36	6.00	-71.35	1.08	-.34
61	92	153	-71.61	1.31	-70.30	7.37	13.19	7.68	17.85	2.09	-3.35	-1.59	.16	43.46	.48	1	6.38	6.01	-70.74	.87	-.44
61	93	154	-68.93	1.18	-67.75	5.52	12.89	8.08	18.40	4.34	-1.98	-1.87	.16	43.39	.48	1	6.40	6.02	-68.45	.48	-.70
61	94	155	-67.76	1.06	-66.70	7.02	12.55	8.22	18.93	2.97	-4.21	-2.09	.17	43.30	.48	1	6.41	6.02			
61	95	156	-64.76	.94	-63.82	5.19	12.22	8.62	19.47	5.20	-2.86	-2.32	.17	43.20	.48	1	6.43	6.03			
61	96	157	-63.26	.83	-62.43	6.68	11.87	8.75	19.99	3.84	-5.08	-2.50	.17	43.07	.48	1	6.45	6.04			
61	97	158	-59.94	.73	-59.21	4.85	11.54	9.15	20.51	6.05	-3.73	-2.70	.17	42.93	.48	1	6.47	6.05			
61	98	159	-58.11	.65	-57.46	6.33	11.18	9.27	21.01	4.70	-5.92	-2.86	.18	42.77	.48	1	6.49	6.05			
61	99	160	-54.48	.58	-53.90	4.51	10.84	9.65	21.52	6.90	-4.56	-3.05	.18	42.60	.48	1	6.50	6.06			
61	100	161	-52.35	.52	-51.83	6.00	10.51	9.78	22.02	5.54	-6.76	-3.22	.18	42.41	.48	1	6.52	6.07			
61	101	162	-48.42	.48	-47.94	4.19	10.18	10.16	22.52	7.72	-5.40	-3.40	.18	42.20	.48	1	6.54	6.08			
61	102	163	-45.98	.45	-45.53	5.66	9.84	10.28	23.00	6.37	-7.56	-3.57	.18	41.98	.48	1	6.56	6.08			
61	103	164	-41.77	.44	-41.33	3.87	9.53	10.66	23.50	8.53	-6.21	-3.75	.18	41.75	.48	1	6.57	6.09			
61	104	165	-39.04	.44	-38.60	5.34	9.21	10.77	23.98	7.18	-8.36	-3.92	.18	41.50	.48	1	6.59	6.10			
61	105	166	-34.54	.45	-34.09	3.56	8.90	11.14	24.46	9.31	-7.01	-4.10	.18	41.23	.48	1	6.61	6.11			
61	106	167	-31.53	.48	-31.05	5.03	8.59	11.25	24.93	7.96	-9.14	-4.27	.17	40.96	.48	1	6.62	6.11			
61	107	168	-26.77	.52	-26.25	3.27	8.30	11.62	25.42	10.07	-7.79	-4.47	.17	40.67	.48	1	6.64	6.12			
61	108	169	-23.48	.58	-22.90	4.73	7.99	11.73	25.87	8.73	-9.89	-4.63	.17	40.36	.48	1	6.66	6.13			
61	109	170	-18.46	.65	-17.81	2.98	7.71	12.09	26.34	10.83	-8.54	-4.82	.17	40.04	.48	1	6.67	6.14			
61	110	171	-14.90	.73	-14.17	4.44	7.41	12.19	26.78	9.49	-10.61	-4.99	.17	39.71	.48	1	6.69	6.14			
61	111	172	-9.62	.81	-8.81	2.70	7.15	12.54	27.24	11.56	-9.26	-5.19	.16	39.37	.48	1	6.71	6.15			
61	112	173	-5.82	.90	-4.92	4.18	6.88	12.66	27.70	10.20	-11.33	-5.38	.16	39.02	.48	1	6.72	6.16			
61	113	174	-.29	1.00	.71	2.45	6.62	12.99	28.13	12.26	-9.95	-5.57	.16	38.65	.48	1	6.74	6.17			
61	114	175	3.77	1.09	4.86	3.92	6.37	13.09	28.55	10.90	-11.96	-5.76	.15	38.28	.48	1	6.76	6.17			
61	115	176	9.53	1.16	10.69	2.24	6.16	13.42	28.97	12.91	-10.55	-5.99	.14	37.89	.48	1	6.77	6.18			
61	116	177	13.83	1.19	15.02	3.74	5.98	13.51	29.34	11.51	-12.44	-6.23	.13	37.49	.48	1	6.79	6.19			
61	117	178	19.83	1.13	20.96	2.13	5.87	13.78	29.63	13.43	-10.67	-6.54	.10	37.08	.48	1	6.80	6.20			
61	118	179	24.36	.80	25.16	3.87	6.01	13.76	29.80	11.77	-12.37	-7.05		36.66	.48	1	6.82	6.20			
61	119	180	30.58	.15	30.73	2.51	6.37	14.09	30.23	13.36	-10.97	-7.70		36.23	.48	1	6.84	6.21			
61	120	181	35.34	-.54	34.80	4.00	6.51	14.19	30.66	11.95	-12.94	-8.01		35.78	.48	1	6.85	6.22			
61	121	182	41.78	-1.26	40.52	2.36	6.35	14.51	31.08	13.91	-11.55	-8.29		35.33	.48	1	6.87	6.23			
61	122	183	46.76	-2.01	44.75	3.85	6.20	14.62	31.49	12.53	-13.50	-8.55		34.87	.48	1	6.88	6.23			
61	123	184	53.41	-2.80	50.61	2.21	6.05	14.93	31.91	14.47	-12.12	-8.83		34.40	.48	1	6.90	6.24			
61	124	185	58.61	-3.62	54.99	3.69	5.90	15.03	32.31	13.09	-14.05	-9.10		33.92	.48	1	6.92	6.25			
61	125	186	65.46	-4.47	60.99	2.07	5.76	15.35	32.73	15.02	-12.67	-9.37		33.44	.48	1	6.93	6.26			
61	126	187	70.87	-5.36	65.51	3.55	5.62	15.44	33.13	13.64	-16.50	-9.64		32.94	.48	1	6.95	6.26			
61	127	188	77.92	-4.38	73.54	.04	3.59	15.76	33.54	17.45	-15.11	-8.02		32.44	.48	1	6.96	6.27			
61	128	189	83.53	-3.45	80.08	1.53	1.58	15.86	33.96	16.06	-17.02	-6.41		31.92	.48	1	6.98	6.28			
61	130	191	96.58	-1.71	94.87	1.42	1.36	16.27	34.76	16.58	-17.52	-7.01		30.87	.48	1	7.01	6.29			
61	132	193	110.01	-.15	109.86	1.31	1.15	16.67	35.57	17.08	-18.02	-7.62		29.79	.48	1	7.04	6.31			
61	134	195	123.81	.89	124.70	1.57	1.31	17.21	36.64	17.23	-18.00	-8.57	.11	28.68	.48	1	7.07	6.32			
61	135	196	131.60	.83	132.43	.33	1.91	17.56	37.16	18.87	-16.59	-9.57	.14	28.11	.48	1	7.08	6.33			
61	136	197	137.97	.68	138.65	1.85	2.19	17.66	37.58	17.47	-18.44	-10.53	.15	27.54	.48	1	7.10	6.34			
61	137	198	145.93	.49	146.42	.30	2.16	17.96	37.97	19.32	-17.10	-11.02	.16	26.96	.48	1	7.11	6.35			
61	138	199	152.47	.29	152.76	1.73	2.03	18.05	38.35	17.98	-18.98	-11.31	.16	26.37	.48	1	7.13	6.36			
61	139	200	160.60	.08	160.68	.15	1.88	18.34	38.73	19.85	-17.65	-11.56	.17	25.78	.48	1	7.14	6.36			
61	140	201	167.32	-.12	167.20	1.55	1.70	18.42	39.09	18.53	-19.52	-11.76	.17	25.18	.48	1	7.16	6.37			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
61	142	203	182.49	-.50	181.99	1.37	1.35	18.79	39.82	19.07	-20.06	-12.15	.18	23.96	.48	1	7.19	6.39			
61	144	205	197.98	-.83	197.15	1.19	.98	19.16	40.53	19.61	-20.60	-12.51	.18	22.72	.48	1	7.21	6.40			
61	146	207	213.79	-1.11	212.68	1.00	.62	19.51	41.22	20.15	-21.12	-12.85	.18	21.19	.44	2	7.24	6.42			
61	148	209	229.90	-1.34	228.56	.82	.26	19.86	41.92	20.68	-21.64	-13.19	.18	19.90	.44	2	7.27	6.43			
61	150	211	246.31	-1.52	244.79	.64	-.09	20.20	42.60	21.19	-22.15	-13.53	.19	18.59	.44	2	7.30	6.45			
61	152	213	263.01	-1.64	261.37	.47	-.43	20.53	43.26	21.70	-22.65	-13.86	.18	17.26	.44	2	7.33	6.46			
61	154	215	279.98	-1.70	278.28	.30	-.77	20.87	43.92	22.20	-23.15	-14.20	.19	15.91	.44	2	7.36	6.48			
61	156	217	297.23	-1.71	295.52	.14	-1.10	21.20	44.57	22.70	-23.63	-14.53	.19	14.39	.42	3	7.38	6.49			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
62	54	116	33.29	1.38	34.67	17.82	33.30	-2.91	-7.64	-22.85	17.28	4.55	.14	25.41	.36	3	5.58	5.75			
62	55	117	26.02	1.36	27.38	15.37	33.19	-2.70	-6.83	-20.16	18.67	3.73	.16	26.43	.36	3	5.60	5.76			
62	56	118	16.89	1.29	18.18	17.28	32.64	-2.18	-6.11	-21.52	15.94	3.30	.17	27.50	.38	3	5.63	5.77			
62	57	119	10.31	1.20	11.51	14.74	32.02	-1.99	-5.37	-18.81	17.28	3.12	.18	28.46	.38	3	5.65	5.78			
62	58	120	1.88	1.12	3.00	16.59	31.32	-1.49	-4.69	-20.14	14.58	3.08	.18	29.38	.38	3	5.68	5.78			
62	59	121	-4.03	1.05	-2.98	14.06	30.64	-1.31	-4.00	-17.43	15.93	3.04	.18	30.31	.40	3	5.70	5.79			
62	60	122	-11.79	.99	-10.80	15.89	29.95	-.82	-3.33	-18.76	13.01	3.05	.18	31.16	.40	3	5.73	5.80			
62	61	123	-17.06	.94	-16.12	13.39	29.28	-.40	-2.15	-16.09	14.10	3.01	.19	31.97	.40	3	5.75	5.81			
62	62	124	-24.17	.92	-23.25	15.21	28.59	.32	-1.02	-17.41	10.99	3.04	.19	32.74	.40	3	5.77	5.81			
62	63	125	-28.35	.91	-27.44	12.26	27.47	.49	-.35	-14.29	12.34	2.98	.19	33.48	.40	3	5.80	5.82			
62	64	126	-34.37	.92	-33.45	14.09	26.34	.96	.29	-15.38	9.74	2.98	.19	34.18	.40	3	5.82	5.83			
62	65	127	-37.97	.94	-37.03	11.64	25.73	1.12	.95	-12.54	11.10	2.91	.18	34.85	.40	3	5.84	5.83			
62	66	128	-43.42	.98	-42.44	13.48	25.13	1.60	1.58	-13.89	8.51	2.88	.18	35.52	.42	3	5.86	5.84			
62	67	129	-46.46	1.04	-45.42	11.06	24.53	1.75	2.22	-11.31	9.89	2.82	.18	36.13	.42	3	5.89	5.85			
62	68	130	-51.35	1.11	-50.24	12.89	23.95	2.22	2.84	-12.66	7.34	2.77	.18	36.70	.42	3	5.91	5.86			
62	69	131	-53.86	1.19	-52.67	10.50	23.39	2.37	3.47	-10.12	8.72	2.69	.18	37.24	.42	3	5.93	5.86			
62	70	132	-58.21	1.28	-56.93	12.33	22.84	2.83	4.08	-11.48	6.21	2.62	.17	37.75	.42	3	5.95	5.87			
62	71	133	-60.21	1.38	-58.83	9.98	22.30	2.98	4.68	-8.97	7.61	2.52	.17	38.23	.42	3	5.97	5.88			
62	72	134	-64.04	1.47	-62.57	11.81	21.79	3.42	5.27	-10.34	5.16	2.44	.16	38.68	.42	3	5.99	5.89			
62	73	135	-65.55	1.55	-64.00	9.50	21.31	3.56	5.86	-7.88	6.59	2.30	.15	39.10	.42	3	6.01	5.89			
62	74	136	-68.88	1.60	-67.28	11.35	20.85	3.98	6.40	-9.28	4.25	2.17	.14	39.53	.44	2	6.04	5.90			
62	75	137	-69.92	1.58	-68.34	9.13	20.48	4.10	6.92	-6.92	5.86	1.96	.12	39.89	.44	2	6.06	5.91			
62	76	138	-72.77	1.40	-71.37	11.10	20.23	4.46	7.29	-8.46	3.89	1.67	.09	40.23	.44	2	6.08	5.92			
62	77	139	-73.35	.85	-72.50	9.20	20.30	4.53	7.77	-6.46	5.43	1.08		40.54	.44	2	6.10	5.92			
62	78	140	-75.74	.13	-75.61	11.18	20.39	4.97	8.36	-8.08	3.07	.63		40.82	.44	2	6.12	5.93			
62	79	141	-75.87	-.63	-76.50	8.97	20.15	5.11	8.94	-5.71	4.50	.38		41.08	.44	2	6.14	5.94	-76.05	-.18	.45
62	80	142	-77.81	-1.44	-79.25	10.82	19.79	5.53	9.51	-7.12	2.17	.15		41.31	.44	2	6.16	5.95	-79.05	-1.24	.20
62	81	143	-77.53	-2.29	-79.82	8.64	19.46	5.68	10.10	-4.80	3.59	-.11		41.52	.44	2	6.18	5.95	-79.42	-1.89	.40
62	82	144	-79.04	-3.19	-82.23	10.48	19.12	6.10	10.67	-6.21	-.66	-.34		41.71	.44	2	6.20	5.96	-81.90	-2.86	.33
62	83	145	-78.34	-2.20	-80.54	6.38	16.87	6.25	11.26	-1.97	.78	1.33		41.92	.46	1	6.22	5.97	-80.60	-2.26	-.06
62	84	146	-79.44	-1.27	-80.71	8.24	14.63	6.68	11.83	-3.39	-1.50	3.01		42.10	.48	1	6.24	5.97	-80.95	-1.51	-.24
62	85	147	-78.35	-.40	-78.75	6.11	14.36	6.83	12.42	-1.11	-.08	2.69		42.22	.48	1	6.25	5.98	-79.25	-.90	-.50
62	86	148	-79.04	.42	-78.62	7.95	14.06	7.24	12.97	-2.52	-2.32	2.41		42.31	.48	1	6.27	5.99	-79.32	-.28	-.70
62	87	149	-77.57	1.17	-76.40	5.85	13.80	7.40	13.55	-.27	-.65	2.09	.04	42.39	.48	1	6.29	6.00	-77.12	.45	-.72
62	88	150	-77.87	1.49	-76.38	8.06	13.90	7.92	14.36	-2.02	-2.70	1.43	.11	42.44	.48	1	6.31	6.00	-77.03	.84	-.65
62	89	151	-76.03	1.53	-74.50	6.18	14.24	8.11	15.04	.06	-1.25	.51	.13	42.47	.48	1	6.33	6.01	-74.55	1.48	-.05
62	90	152	-75.96	1.48	-74.48	8.06	14.24	8.53	15.62	-1.37	-3.47	-.30	.15	42.48	.48	1	6.35	6.02	-74.75	1.21	-.27
62	91	153	-73.77	1.37	-72.40	5.98	14.04	8.68	16.21	.85	-2.10	-.78	.16	42.48	.48	1	6.37	6.03	-72.54	1.23	-.14
62	92	154	-73.34	1.25	-72.09	7.77	13.75	9.08	16.76	-.52	-4.34	-1.08	.16	42.45	.48	1	6.39	6.03	-72.45	.89	-.36
62	93	155	-70.80	1.12	-69.68	5.66	13.43	9.22	17.31	1.72	-2.98	-1.34	.17	42.40	.48	1	6.40	6.04	-70.19	.61	-.51
62	94	156	-70.01	1.00	-69.01	7.41	13.07	9.60	17.82	.38	-5.19	-1.52	.17	42.34	.48	1	6.42	6.05	-69.36	.65	-.35
62	95	157	-67.14	.88	-66.26	5.32	12.73	9.73	18.35	2.61	-3.83	-1.73	.17	42.26	.48	1	6.44	6.06			
62	96	158	-66.02	.77	-65.25	7.06	12.37	10.12	18.87	1.26	-6.05	-1.91	.17	42.16	.48	1	6.46	6.06			
62	97	159	-62.83	.67	-62.16	4.98	12.04	10.25	19.39	3.48	-4.70	-2.10	.18	42.04	.48	1	6.48	6.07			
62	98	160	-61.38	.58	-60.80	6.70	11.69	10.62	19.90	2.13	-6.89	-2.26	.18	41.91	.48	1	6.49	6.08			
62	99	161	-57.88	.51	-57.37	4.64	11.35	10.75	20.41	4.33	-5.54	-2.45	.18	41.76	.48	1	6.51	6.08			
62	100	162	-56.12	.46	-55.66	6.37	11.00	11.12	20.90	2.99	-7.72	-2.60	.18	41.59	.48	1	6.53	6.09			
62	101	163	-52.31	.41	-51.90	4.31	10.67	11.24	21.41	5.16	-6.37	-2.79	.18	41.41	.48	1	6.55	6.10			
62	102	164	-50.24	.39	-49.85	6.02	10.33	11.61	21.89	3.83	-8.52	-2.94	.18	41.22	.48	1	6.56	6.11			
62	103	165	-46.15	.37	-45.78	3.99	10.02	11.73	22.39	5.98	-7.18	-3.13	.18	41.00	.48	1	6.58	6.11			
62	104	166	-43.78	.38	-43.40	5.70	9.69	12.09	22.86	4.65	-9.31	-3.28	.18	40.78	.48	1	6.60	6.12			
62	105	167	-39.41	.39	-39.02	3.68	9.39	12.21	23.36	6.78	-7.97	-3.48	.18	40.54	.48	1	6.62	6.13			
62	106	168	-36.75	.43	-36.32	5.38	9.06	12.56	23.82	5.45	-10.08	-3.63	.18	40.28	.48	1	6.63	6.14			
62	107	169	-32.10	.47	-31.63	3.38	8.76	12.68	24.29	7.57	-8.73	-3.81	.17	40.01	.48	1	6.65	6.14			
62	108	170	-29.17	.53	-28.64	5.08	8.46	13.03	24.76	6.23	-10.83	-3.98	.17	39.73	.48	1	6.67	6.15			
62	109	171	-24.26	.60	-23.66	3.10	8.17	13.14	25.23	8.33	-9.48	-4.17	.17	39.43	.48	1	6.68	6.16			
62	110	172	-21.05	.68	-20.37	4.79	7.87	13.48	25.68	7.00	-11.56	-4.34	.17	39.12	.48	1	6.70	6.17			
62	111	173	-15.88	.77	-15.11	2.81	7.59	13.59	26.13	9.08	-10.20	-4.52	.17	38.80	.48	1	6.72	6.17			
62	112	174	-12.41	.86	-11.55	4.50	7.32	13.93	26.58	7.74	-12.26	-4.70	.16	38.47	.48	1	6.73	6.18			
62	113	175	-7.00	.96	-6.04	2.56	7.07	14.04	27.03	9.79	-10.89	-4.91	.16	38.12	.48	1	6.75	6.19			
62	114	176	-3.28	1.05	-2.23	4.26	6.82	14.37	27.47	8.43	-12.92	-5.11	.15	37.77	.48	1	6.76	6.20			
62	115	177	2.38	1.14	3.52	2.33	6.58	14.46	27.88	10.47	-11.50	-5.32	.14	37.40	.48	1	6.78	6.20			
62	116	178	6.35	1.18	7.53	4.05	6.39	14.78	28.29	9.08	-13.43	-5.55	.13	37.02	.48	1	6.80	6.21			
62	117	179	12.23	1.16	13.39	2.22	6.27	14.86	28.64	11.02	-11.77	-5.86	.11	36.63	.48	1	6.81	6.22			
62	118	180	16.44	.92	17.36	4.10	6.31	15.09	28.85	9.45	-13.37	-6.30	.06	36.23	.48	1	6.83	6.23			
62	119	181	22.56	.30	22.86	2.59	6.67	15.16	29.24	11.03	-11.95	-7.02		35.82	.48	1	6.84	6.23			
62	120	182	27.00	-.39	26.61	4.31	6.90	15.48	29.67	9.59	-13.91	-7.44		35.39	.48	1	6.86	6.24			
62	121	183	33.33	-1.11	32.22	2.46	6.78	15.59	30.10	11.55	-12.53	-7.73		34.96	.48	1	6.88	6.25			
62	122	184	38.00	-1.86	36.14	4.16	6.61	15.90	30.51	10.18	-14.47	-7.99		34.52	.48	1	6.89	6.26			
62	123	185	44.55	-2.65	41.90	2.31	6.47	15.99	30.93	12.12	-13.09	-8.27		34.07	.48	1	6.91	6.26			
62	124	186	49.43	-3.46	45.97	4.00	6.31	16.31	31.34	10.75	-15.02	-8.53		33.61	.48	1	6.92	6.27			
62	125	187	56.18	-4.31	51.87	2.17	6.17	16.41	31.75	12.68	-13.64	-8.81		33.14	.48	1	6.94	6.28			
62	126	188	61.29	-5.19	56.10	3.85	6.01	16.71	32.14	11.32	-17.44	-9.05		32.66	.48	1	6.95	6.29			
62	127	189	68.24	-4.22	64.02	.14	3.99	16.81	32.57	15.12	-16.06	-7.45		32.17	.48	1	6.97	6.29			
62	128	190	73.55	-3.29	70.26	1.83	1.97	17.12	32.97	13.75	-17.96	-5.83		31.67	.48	1	6.98	6.30			
62	129	191	80.69	-2.41	78.28	.04	1.88	17.22	33.40	15.64	-16.59	-6.15		31.17	.48	1	7.00	6.31			
62	130	192	86.20	-1.56	84.64	1.72	1.76	17.52	33.79	14.28	-18.46	-6.44		30.65	.48	1	7.02	6.32			

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
62	132	194	99.24	-0.	99.24	1.61	1.54	17.92	34.59	14.79	-18.96	-7.03		29.60	.48	1	7.05	6.33			
62	134	196	112.66	.90	113.56	1.98	1.82	18.42	35.64	14.85	-18.87	-8.11	.12	28.52	.48	1	7.08	6.35			
62	135	197	120.36	.82	121.18	.45	2.43	18.54	36.10	16.52	-17.47	-9.13	.14	27.97	.48	1	7.09	6.35			
62	136	198	126.44	.66	127.10	2.15	2.60	18.84	36.50	15.13	-19.32	-9.95	.15	27.41	.48	1	7.11	6.36			
62	137	199	134.31	.46	134.77	.40	2.55	18.93	36.90	16.98	-17.99	-10.36	.16	26.85	.48	1	7.12	6.37			
62	138	200	140.57	.26	140.83	2.02	2.41	19.22	37.27	15.66	-19.85	-10.62	.17	26.28	.48	1	7.13	6.38			
62	139	201	148.62	.05	148.67	.23	2.25	19.30	37.64	17.53	-18.53	-10.85	.17	25.70	.48	1	7.15	6.38			
62	140	202	155.05	-.15	154.90	1.84	2.08	19.58	38.01	16.21	-20.39	-11.05	.17	24.99	.46	1	7.16	6.39			
62	141	203	163.26	-.34	162.92	.06	1.89	19.66	38.37	18.08	-19.07	-11.24	.18	24.40	.46	1	7.18	6.40			
62	142	204	169.87	-.52	169.35	1.65	1.70	19.93	38.72	16.78	-20.92	-11.41	.18	23.66	.44	2	7.19	6.41			
62	144	206	185.01	-.86	184.15	1.46	1.34	20.29	39.44	17.33	-21.46	-11.77	.18	22.44	.44	2	7.22	6.42			
62	146	208	200.46	-1.14	199.32	1.28	.97	20.64	40.15	17.87	-21.99	-12.12	.18	21.20	.44	2	7.25	6.44			
62	148	210	216.23	-1.36	214.87	1.09	.60	20.98	40.83	18.41	-22.50	-12.45	.18	19.93	.44	2	7.28	6.45			
62	150	212	232.30	-1.54	230.76	.91	.25	21.32	41.52	18.94	-23.01	-12.79	.18	18.65	.44	2	7.31	6.47			
62	152	214	248.66	-1.65	247.01	.73	-.10	21.65	42.19	19.46	-23.50	-13.12	.18	17.34	.44	2	7.33	6.48			
62	154	216	265.31	-1.72	263.59	.55	-.44	21.98	42.85	19.97	-23.99	-13.45	.19	15.86	.42	3	7.36	6.50			
62	156	218	282.23	-1.73	280.50	.39	-.76	22.31	43.51	20.46	-24.48	-13.79	.18	14.52	.42	3	7.39	6.51			
62	158	220	299.43	-1.68	297.75	.22	-1.10	22.62	44.15	20.97	-24.95	-14.11	.18	13.15	.42	3	7.42	6.53			
62	160	222	316.90	-1.59	315.31	.06	-1.42	22.93	44.78	21.45	-25.41	-14.43	.19	11.78	.42	3	7.44	6.54			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SADDLE DEF	I	NEU	PRO	EXP MASS	EXP SHELL	DIFF
63	61	124	-6.67	.83	-5.84	13.88	29.94	-2.98	-3.39	-14.89	17.42	3.32	.19	29.91	.38	3	5.76	5.83			
63	62	125	-13.96	.80	-13.16	15.38	29.27	-2.81	-2.49	-16.23	14.28	3.32	.19	30.76	.40	3	5.78	5.84			
63	63	126	-18.87	.80	-18.07	12.99	28.37	-2.08	-1.59	-13.36	15.39	3.31	.19	31.54	.40	3	5.81	5.85			
63	64	127	-25.30	.81	-24.49	14.49	27.48	-1.67	-.71	-14.46	12.54	3.31	.19	32.27	.40	3	5.83	5.85			
63	65	128	-29.38	.84	-28.54	12.13	26.61	-1.20	-.07	-11.39	13.89	3.28	.19	32.97	.40	3	5.85	5.86			
63	66	129	-34.99	.88	-34.11	13.64	25.76	-1.03	.56	-12.74	11.31	3.25	.18	33.64	.40	3	5.87	5.87			
63	67	130	-38.52	.94	-37.58	11.54	25.18	-.55	1.20	-10.18	12.66	3.19	.18	34.27	.40	3	5.90	5.88			
63	68	131	-43.56	1.02	-42.54	13.04	24.57	-.40	1.81	-11.52	10.13	3.16	.18	34.87	.40	3	5.92	5.88			
63	69	132	-46.55	1.10	-45.45	10.97	24.02	.07	2.45	-9.00	11.48	3.08	.18	35.48	.42	3	5.94	5.89			
63	70	133	-51.06	1.20	-49.86	12.48	23.45	.22	3.05	-10.35	8.97	3.02	.17	36.02	.42	3	5.96	5.90			
63	71	134	-53.53	1.30	-52.23	10.44	22.92	.69	3.66	-7.86	10.34	2.93	.17	36.53	.42	3	5.98	5.90			
63	72	135	-57.52	1.40	-56.12	11.96	22.40	.84	4.26	-9.22	7.88	2.84	.16	37.01	.42	3	6.00	5.91			
63	73	136	-59.49	1.49	-58.00	9.95	21.91	1.29	4.85	-6.77	9.29	2.72	.16	37.46	.42	3	6.02	5.92			
63	74	137	-62.98	1.55	-61.43	11.50	21.45	1.43	5.42	-8.18	6.91	2.59	.14	37.89	.42	3	6.04	5.93			
63	75	138	-64.47	1.56	-62.91	9.56	21.05	1.86	5.96	-5.80	8.46	2.39	.13	38.28	.42	3	6.07	5.93			
63	76	139	-67.47	1.43	-66.04	11.20	20.76	1.96	6.42	-7.31	6.46	2.13	.10	38.64	.42	3	6.09	5.94			
63	77	140	-68.50	.96	-67.54	9.57	20.78	2.33	6.86	-5.27	8.06	1.56		38.98	.42	3	6.11	5.95			
63	78	141	-71.04	.25	-70.79	11.33	20.90	2.48	7.44	-6.92	5.71	.98		39.29	.42	3	6.13	5.96			
63	79	142	-71.62	-.51	-72.13	9.41	20.74	2.92	8.03	-4.58	7.12	.70		39.63	.44	2	6.15	5.96			
63	80	143	-73.71	-1.31	-75.02	10.97	20.37	3.06	8.59	-5.99	4.80	.48		39.89	.44	2	6.17	5.97	-74.42	-.71	.60
63	81	144	-73.86	-2.16	-76.02	9.07	20.04	3.50	9.17	-3.67	6.20	.23		40.13	.44	2	6.19	5.98	-75.58	-1.72	.44
63	82	145	-75.52	-3.06	-78.58	10.63	19.70	3.64	9.75	-5.08	1.96	-.00		40.34	.44	2	6.21	5.98	-77.88	-2.36	.70
63	83	146	-75.25	-2.07	-77.32	6.82	17.44	4.07	10.32	-.86	3.38	1.68		40.53	.44	2	6.23	5.99	-77.08	-1.83	.24
63	84	147	-76.49	-1.15	-77.64	8.39	15.21	4.22	10.90	-2.28	1.10	3.35		40.70	.44	2	6.24	6.00	-77.49	-1.00	.15
63	85	148	-75.82	-.28	-76.10	6.54	14.92	4.65	11.47	-.01	2.52	3.05		40.84	.44	2	6.26	6.01	-76.22	-.40	-.12
63	86	149	-76.66	.53	-76.13	8.10	14.64	4.80	12.04	-1.42	.27	2.76		40.96	.44	2	6.28	6.01	-76.36	.30	-.23
63	87	150	-75.60	1.24	-74.36	6.30	14.40	5.25	12.64	.79	2.03	2.42	.07	41.06	.44	2	6.30	6.02	-74.72	.88	-.36
63	88	151	-76.05	1.49	-74.56	8.27	14.57	5.46	13.39	-1.01	-.06	1.69	.12	41.14	.44	2	6.32	6.03	-74.63	1.42	-.07
63	89	152	-74.62	1.51	-73.11	6.62	14.89	5.90	14.01	1.07	1.38	.76	.14	41.20	.44	2	6.34	6.04	-72.86	1.76	.25
63	90	153	-74.69	1.44	-73.25	8.21	14.83	6.05	14.58	-.36	-.86	.08	.15	41.29	.46	1	6.36	6.04	-73.35	1.34	-.10
63	91	154	-72.90	1.33	-71.57	6.39	14.60	6.47	15.14	1.86	.52	-.31	.16	41.36	.48	1	6.38	6.05	-71.71	1.19	-.14
63	92	155	-72.60	1.20	-71.40	7.90	14.29	6.60	15.68	.49	-1.73	-.58	.16	41.36	.48	1	6.39	6.06	-71.82	.78	-.42
63	93	156	-70.46	1.07	-69.39	6.06	13.96	7.00	16.22	2.73	-.37	-.81	.17	41.35	.48	1	6.41	6.07	-70.07	.39	-.68
63	94	157	-69.82	.94	-68.88	7.56	13.62	7.15	16.75	1.36	-2.61	-1.01	.17	41.31	.48	1	6.43	6.07	-69.46	.36	-.58
63	95	158	-67.34	.82	-66.52	5.72	13.27	7.54	17.28	3.59	-1.26	-1.20	.17	41.25	.48	1	6.45	6.08	-67.25	.09	-.73
63	96	159	-66.35	.71	-65.64	7.19	12.91	7.67	17.79	2.24	-3.48	-1.36	.17	41.18	.48	1	6.47	6.09	-65.92	.43	-.28
63	97	160	-63.55	.62	-62.93	5.37	12.56	8.06	18.31	4.45	-2.13	-1.54	.18	41.08	.48	1	6.48	6.09	-63.53	.02	-.60
63	98	161	-62.23	.53	-61.70	6.84	12.21	8.19	18.81	3.10	-4.33	-1.70	.18	40.98	.48	1	6.50	6.10			
63	99	162	-59.11	.46	-58.65	5.02	11.86	8.57	19.32	5.29	-2.99	-1.87	.18	40.85	.48	1	6.52	6.11			
63	100	163	-57.47	.41	-57.06	6.49	11.51	8.69	19.81	3.96	-5.16	-2.02	.18	40.71	.48	1	6.54	6.12			
63	101	164	-54.04	.37	-53.67	4.68	11.17	9.06	20.30	6.14	-3.81	-2.19	.18	40.55	.48	1	6.55	6.12			
63	102	165	-52.10	.34	-51.76	6.15	10.84	9.19	20.80	4.79	-5.98	-2.36	.18	40.38	.48	1	6.57	6.13			
63	103	166	-48.38	.33	-48.05	4.37	10.52	9.56	21.30	6.94	-4.65	-2.53	.18	40.19	.48	1	6.59	6.14			
63	104	167	-46.13	.33	-45.80	5.82	10.19	9.68	21.78	5.60	-6.79	-2.69	.18	39.98	.48	1	6.61	6.15			
63	105	168	-42.12	.35	-41.77	4.04	9.87	10.05	22.26	7.73	-5.45	-2.86	.18	39.77	.48	1	6.62	6.15			
63	106	169	-39.58	.38	-39.20	5.50	9.55	10.16	22.73	6.40	-7.57	-3.02	.18	39.53	.48	1	6.64	6.16			
63	107	170	-35.30	.43	-34.87	3.74	9.24	10.53	23.21	8.51	-6.23	-3.20	.17	39.29	.48	1	6.66	6.17			
63	108	171	-32.48	.49	-31.99	5.20	8.93	10.64	23.67	7.18	-8.33	-3.36	.17	39.03	.48	1	6.67	6.18			
63	109	172	-27.93	.56	-27.37	3.45	8.65	11.00	24.14	9.27	-7.00	-3.55	.17	38.75	.48	1	6.69	6.18			
63	110	173	-24.83	.64	-24.19	4.89	8.34	11.10	24.59	7.94	-9.07	-3.71	.17	38.46	.48	1	6.71	6.19			
63	111	174	-20.02	.73	-19.29	3.17	8.07	11.46	25.06	10.01	-7.74	-3.91	.17	38.16	.48	1	6.72	6.20			
63	112	175	-16.66	.83	-15.83	4.62	7.78	11.57	25.50	8.68	-9.79	-4.08	.16	37.85	.48	1	6.74	6.20			
63	113	176	-11.60	.93	-10.67	2.91	7.53	11.92	25.96	10.72	-8.45	-4.28	.16	37.53	.48	1	6.76	6.21			
63	114	177	-7.98	1.03	-6.95	4.36	7.26	12.02	26.38	9.38	-10.46	-4.46	.15	37.19	.48	1	6.77	6.22			
63	115	178	-2.67	1.12	-1.55	2.67	7.03	12.35	26.82	11.40	-9.08	-4.68	.15	36.84	.48	1	6.79	6.23			
63	116	179	1.19	1.18	2.37	4.15	6.82	12.45	27.23	10.03	-11.02	-4.91	.13	36.48	.48	1	6.80	6.23			
63	117	180	6.74	1.17	7.91	2.53	6.68	12.77	27.63	11.98	-9.46	-5.20	.12	36.11	.48	1	6.82	6.24			
63	118	181	10.84	.98	11.82	4.16	6.69	12.83	27.92	10.44	-11.03	-5.63	.07	35.73	.48	1	6.84	6.25			
63	119	182	16.63	.39	17.02	2.88	7.03	13.12	28.29	12.02	-9.59	-6.36		35.34	.48	1	6.85	6.26			
63	120	183	20.96	-.29	20.67	4.42	7.30	13.23	28.71	10.57	-11.55	-6.92		34.93	.48	1	6.87	6.26			
63	121	184	26.97	-1.01	25.96	2.78	7.20	13.55	29.14	12.52	-10.18	-7.19		34.52	.48	1	6.88	6.27			
63	122	185	31.53	-1.76	29.77	4.26	7.05	13.66	29.56	11.15	-12.13	-7.46		34.09	.48	1	6.90	6.28			
63	123	186	37.76	-2.54	35.22	2.63	6.88	13.97	29.97	13.09	-10.75	-7.72		33.66	.48	1	6.92	6.29			
63	124	187	42.54	-3.36	39.18	4.10	6.74	14.07	30.39	11.71	-12.69	-7.99		33.22	.48	1	6.93	6.29			
63	125	188	48.98	-4.20	44.78	2.48	6.58	14.38	30.79	13.65	-11.31	-8.25		32.77	.48	1	6.95	6.30			
63	126	189	53.98	-5.08	48.90	3.95	6.43	14.48	31.19	12.28	-15.12	-8.51		32.30	.48	1	6.96	6.31			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
63	127	190	60.62	-4.11	56.51	.46	4.41	14.80	31.61	16.07	-13.74	-6.90		31.83	.48	1	6.98	6.32			
63	128	191	65.83	-3.19	62.64	1.93	2.40	14.90	32.02	14.70	-15.65	-5.30		31.35	.48	1	6.99	6.32			
63	129	192	72.67	-2.30	70.37	.35	2.28	15.21	32.42	16.60	-14.27	-5.59		30.86	.48	1	7.01	6.33			
63	130	193	78.08	-1.46	76.62	1.82	2.17	15.31	32.83	15.23	-16.16	-5.89		30.37	.48	1	7.02	6.34			
63	131	194	85.11	-.67	84.44	.24	2.07	15.62	33.24	17.10	-14.80	-6.20		29.86	.48	1	7.04	6.35			
63	132	195	90.72	.09	90.81	1.71	1.95	15.72	33.63	15.74	-16.66	-6.48		29.35	.48	1	7.05	6.35			
63	133	196	97.94	.77	98.71	.17	1.88	16.05	34.07	17.57	-14.85	-6.82	.07	28.83	.48	1	7.07	6.36			
63	134	197	103.75	.91	104.66	2.13	2.30	16.19	34.61	15.73	-16.52	-7.63	.12	28.30	.48	1	7.08	6.37			
63	135	198	111.15	.82	111.97	.76	2.89	16.51	35.04	17.41	-15.13	-8.65	.14	27.65	.46	1	7.10	6.38			
63	136	199	117.14	.65	117.79	2.25	3.01	16.60	35.44	16.02	-16.99	-9.33	.15	26.98	.44	2	7.11	6.38			
63	137	200	124.72	.45	125.17	.69	2.94	16.90	35.83	17.86	-15.66	-9.69	.16	26.42	.44	2	7.13	6.39			
63	138	201	130.89	.25	131.14	2.11	2.79	16.99	36.20	16.54	-17.53	-9.93	.17	25.86	.44	2	7.14	6.40			
63	139	202	138.65	.04	138.69	.52	2.63	17.27	36.57	18.40	-16.21	-10.15	.17	25.30	.44	2	7.16	6.41			
63	140	203	145.00	-.16	144.84	1.92	2.44	17.35	36.93	17.09	-18.08	-10.34	.17	24.72	.44	2	7.17	6.41			
63	141	204	152.92	-.35	152.57	.34	2.26	17.64	37.30	18.95	-16.77	-10.54	.18	24.14	.44	2	7.19	6.42			
63	142	205	159.44	-.53	158.91	1.73	2.07	17.73	37.66	17.65	-18.63	-10.71	.18	23.55	.44	2	7.20	6.43			
63	143	206	167.53	-.70	166.83	.15	1.88	18.00	38.02	19.50	-17.32	-10.89	.18	22.96	.44	2	7.21	6.44			
63	144	207	174.22	-.86	173.36	1.54	1.69	18.08	38.37	18.20	-19.17	-11.06	.18	22.36	.44	2	7.23	6.44			
63	146	209	189.32	-1.14	188.18	1.35	1.32	18.44	39.08	18.74	-19.70	-11.40	.18	21.15	.44	2	7.26	6.46			
63	148	211	204.73	-1.37	203.36	1.17	.96	18.79	39.78	19.27	-20.24	-11.74	.18	19.91	.44	2	7.29	6.47			
63	150	213	220.45	-1.54	218.91	.98	.60	19.14	40.46	19.79	-20.76	-12.07	.18	18.49	.42	3	7.31	6.49			
63	152	215	236.47	-1.65	234.82	.80	.24	19.48	41.13	20.32	-21.26	-12.40	.18	17.21	.42	3	7.34	6.50			
63	154	217	252.78	-1.71	251.07	.63	-.11	19.82	41.79	20.83	-21.75	-12.72	.19	15.90	.42	3	7.37	6.52			
63	156	219	269.37	-1.72	267.65	.46	-.44	20.15	42.45	21.32	-22.25	-13.06	.18	14.58	.42	3	7.40	6.53			
63	158	221	286.24	-1.68	284.56	.29	-.77	20.48	43.10	21.81	-22.74	-13.39	.18	13.24	.42	3	7.42	6.55			
63	160	223	303.38	-1.58	301.80	.13	-1.09	20.80	43.73	22.30	-23.21	-13.71	.18	11.89	.42	3	7.45	6.56			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
64	57	121	32.37	.99	33.36	15.42	33.39	-2.94	-7.26	-20.40	18.91	3.55	.18	23.93	.34	3	5.67	5.83			
64	58	122	23.28	.90	24.18	17.25	32.68	-2.45	-6.60	-21.73	16.22	3.58	.18	25.11	.36	3	5.70	5.84			
64	59	123	16.70	.83	17.53	14.73	31.98	-2.28	-5.93	-19.03	17.56	3.59	.19	26.03	.36	3	5.72	5.84			
64	60	124	8.28	.77	9.05	16.55	31.28	-1.79	-5.27	-20.35	14.89	3.62	.19	26.92	.36	3	5.75	5.85			
64	61	125	2.35	.73	3.08	14.05	30.59	-1.63	-4.61	-17.68	16.23	3.63	.19	27.76	.36	3	5.77	5.86			
64	62	126	-5.42	.70	-4.72	15.86	29.91	-1.15	-3.96	-19.02	13.35	3.66	.19	28.69	.38	3	5.79	5.86			
64	63	127	-10.73	.70	-10.03	13.39	29.25	-.75	-2.83	-16.38	14.46	3.66	.19	29.49	.38	3	5.82	5.87			
64	64	128	-17.87	.71	-17.16	15.20	28.59	-.04	-1.72	-17.71	11.39	3.67	.19	30.25	.38	3	5.84	5.88			
64	65	129	-22.11	.74	-21.37	12.29	27.48	.11	-1.08	-14.63	12.74	3.64	.19	31.03	.40	3	5.86	5.89			
64	66	130	-28.19	.79	-27.40	14.10	26.39	.58	-.45	-15.73	10.18	3.63	.19	31.73	.40	3	5.88	5.89			
64	67	131	-31.88	.85	-31.03	11.70	25.80	.74	.19	-12.94	11.52	3.57	.18	32.39	.40	3	5.91	5.90			
64	68	132	-37.39	.93	-36.46	13.51	25.20	1.20	.80	-14.28	8.99	3.55	.18	33.02	.40	3	5.93	5.91			
64	69	133	-40.54	1.02	-39.52	11.13	24.64	1.36	1.43	-11.75	10.34	3.48	.18	33.62	.40	3	5.95	5.92			
64	70	134	-45.50	1.12	-44.38	12.94	24.07	1.80	2.03	-13.09	7.85	3.43	.17	34.19	.40	3	5.97	5.92			
64	71	135	-48.13	1.23	-46.90	10.60	23.53	1.96	2.64	-10.59	9.22	3.34	.17	34.73	.40	3	5.99	5.93			
64	72	136	-52.56	1.34	-51.22	12.40	22.99	2.39	3.23	-11.93	6.78	3.28	.16	35.24	.40	3	6.01	5.94			
64	73	137	-54.69	1.44	-53.25	10.10	22.50	2.54	3.83	-9.48	8.17	3.16	.16	35.76	.42	3	6.03	5.94			
64	74	138	-58.62	1.51	-57.11	11.93	22.03	2.98	4.40	-10.86	5.80	3.04	.15	36.21	.42	3	6.05	5.95			
64	75	139	-60.27	1.53	-58.74	9.70	21.63	3.12	4.98	-8.48	7.30	2.84	.13	36.64	.42	3	6.08	5.96			
64	76	140	-63.71	1.43	-62.28	11.61	21.31	3.53	5.49	-9.96	5.25	2.58	.10	37.03	.42	3	6.10	5.97			
64	77	141	-64.89	1.02	-63.87	9.67	21.28	3.63	5.95	-7.87	6.92	2.05		37.40	.42	3	6.12	5.97			
64	78	142	-67.86	.31	-67.55	11.76	21.42	4.05	6.53	-9.53	4.58	1.39		37.74	.42	3	6.14	5.98			
64	79	143	-68.59	-.45	-69.04	9.56	21.32	4.20	7.12	-7.19	5.98	1.03		38.06	.42	3	6.16	5.99			
64	80	144	-71.10	-1.25	-72.35	11.39	20.95	4.61	7.68	-8.58	3.67	.83		38.35	.42	3	6.18	6.00	-71.88	-.78	.47
64	81	145	-71.40	-2.10	-73.50	9.22	20.61	4.76	8.26	-6.27	5.07	.58		38.61	.42	3	6.20	6.00	-72.88	-1.48	.62
64	82	146	-73.48	-2.98	-76.46	11.04	20.25	5.18	8.81	-7.66	.86	.37		38.85	.42	3	6.22	6.01	-75.88	-2.40	.58
64	83	147	-73.36	-2.01	-75.37	6.98	18.02	5.33	9.41	-3.46	2.27	2.02		39.07	.42	3	6.23	6.02	-75.16	-1.80	.21
64	84	148	-75.01	-1.08	-76.09	8.81	15.77	5.75	9.97	-4.85	.01	3.71		39.32	.44	2	6.25	6.02	-76.21	-1.20	-.12
64	85	149	-74.48	-.22	-74.70	6.68	15.48	5.89	10.54	-2.58	1.43	3.41		39.49	.44	2	6.27	6.03	-75.07	-.59	-.37
64	86	150	-75.73	.58	-75.15	8.51	15.20	6.31	11.11	-3.99	-.79	3.13		39.64	.44	2	6.29	6.04	-75.73	0.	-.58
64	87	151	-74.81	1.27	-73.54	6.47	14.98	6.47	11.72	-1.80	1.02	2.78	.07	39.77	.44	2	6.31	6.05	-74.17	.64	-.63
64	88	152	-75.66	1.48	-74.18	8.70	15.18	6.91	12.37	-3.61	-1.07	2.02	.12	39.87	.44	2	6.33	6.05	-74.69	.97	-.51
64	89	153	-74.37	1.48	-72.89	6.78	15.49	7.06	12.97	-1.53	.36	1.09	.14	39.96	.44	2	6.35	6.06	-73.11	1.26	-.22
64	90	154	-74.84	1.41	-73.43	8.62	15.39	7.47	13.52	-2.96	-1.86	.53	.15	40.02	.44	2	6.37	6.07	-73.69	1.15	-.26
64	91	155	-73.18	1.29	-71.89	6.53	15.15	7.61	14.07	-.73	-.49	.18	.16	40.06	.44	2	6.39	6.07	-72.06	1.12	-.17
64	92	156	-73.28	1.16	-72.12	8.30	14.83	8.00	14.61	-2.10	-2.73	-.06	.16	40.09	.44	2	6.40	6.08	-72.52	.76	-.40
64	93	157	-71.27	1.03	-70.24	6.19	14.49	8.14	15.14	.14	-1.37	-.27	.17	40.09	.44	2	6.42	6.09	-70.82	.45	-.58
64	94	158	-71.01	.90	-70.11	7.94	14.14	8.52	15.67	-1.21	-3.60	-.45	.17	40.08	.44	2	6.44	6.10	-70.68	.33	-.57
64	95	159	-68.67	.78	-67.89	5.85	13.79	8.66	16.20	1.01	-2.25	-.64	.17	40.04	.44	2	6.46	6.10	-68.55	.12	-.66
64	96	160	-68.06	.68	-67.38	7.57	13.42	9.04	16.70	-.31	-4.45	-.79	.18	39.99	.44	2	6.48	6.11	-67.93	.13	-.55
64	97	161	-65.38	.58	-64.80	5.49	13.06	9.16	17.21	1.90	-3.10	-.96	.18	39.92	.44	2	6.49	6.12	-65.49	-.11	-.69
64	98	162	-64.44	.50	-63.94	7.21	12.70	9.54	17.72	.56	-5.29	-1.11	.18	39.83	.44	2	6.51	6.13	-64.29	.15	-.35
64	99	163	-61.45	.43	-61.02	5.15	12.36	9.67	18.23	2.75	-3.96	-1.28	.18	39.81	.46	1	6.53	6.13			
64	100	164	-60.18	.37	-59.81	6.86	12.01	10.03	18.73	1.42	-6.13	-1.43	.18	39.69	.46	1	6.55	6.14			
64	101	165	-56.88	.33	-56.55	4.81	11.67	10.16	19.23	3.59	-4.79	-1.61	.18	39.62	.48	1	6.56	6.15			
64	102	166	-55.29	.31	-54.98	6.51	11.32	10.51	19.70	2.27	-6.93	-1.74	.18	39.47	.48	1	6.58	6.15			
64	103	167	-51.70	.30	-51.40	4.49	11.00	10.64	20.20	4.42	-5.60	-1.92	.18	39.30	.48	1	6.60	6.16			
64	104	168	-49.81	.30	-49.51	6.18	10.67	11.00	20.68	3.09	-7.74	-2.08	.18	39.12	.48	1	6.61	6.17			
64	105	169	-45.92	.32	-45.60	4.16	10.34	11.12	21.17	5.23	-6.40	-2.25	.18	38.93	.48	1	6.63	6.18			
64	106	170	-43.74	.36	-43.38	5.86	10.02	11.47	21.63	3.90	-8.51	-2.40	.18	38.72	.48	1	6.65	6.18			
64	107	171	-39.57	.40	-39.17	3.86	9.71	11.59	22.12	6.02	-7.18	-2.58	.18	38.49	.48	1	6.67	6.19			
64	108	172	-37.10	.46	-36.64	5.54	9.40	11.93	22.58	4.69	-9.27	-2.74	.17	38.25	.48	1	6.68	6.20			
64	109	173	-32.67	.54	-32.13	3.57	9.11	12.06	23.05	6.79	-7.94	-2.92	.17	38.00	.48	1	6.70	6.21			
64	110	174	-29.92	.62	-29.30	5.24	8.81	12.40	23.51	5.46	-10.01	-3.09	.17	37.74	.48	1	6.72	6.21			
64	111	175	-25.22	.71	-24.51	3.28	8.52	12.51	23.97	7.54	-8.68	-3.28	.17	37.46	.48	1	6.73	6.22			
64	112	176	-22.20	.81	-21.39	4.96	8.24	12.84	24.41	6.22	-10.73	-3.44	.16	37.17	.48	1	6.75	6.23			
64	113	177	-17.25	.91	-16.34	3.02	7.98	12.96	24.88	8.26	-9.39	-3.65	.16	36.86	.48	1	6.76	6.24			
64	114	178	-13.97	1.01	-12.96	4.70	7.71	13.29	25.31	6.93	-11.41	-3.83	.15	36.54	.48	1	6.78	6.24			
64	115	179	-8.77	1.11	-7.66	2.78	7.47	13.40	25.75	8.96	-10.03	-4.04	.15	36.22	.48	1	6.80	6.25			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SADDLE DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
64	116	180	-5.23	1.17	-4.06	4.47	7.25	13.72	26.17	7.61	-11.97	-4.26	.14	35.88	.48	1	6.81	6.26			
64	117	181	.21	1.17	1.38	2.63	7.10	13.82	26.59	9.56	-10.45	-4.56	.12	35.52	.48	1	6.83	6.26			
64	118	182	3.99	1.01	5.00	4.45	7.08	14.12	26.95	8.08	-12.02	-4.96	.08	35.16	.48	1	6.84	6.27			
64	119	183	9.66	.44	10.10	2.97	7.42	14.21	27.33	9.67	-10.57	-5.72		34.79	.48	1	6.86	6.28			
64	120	184	13.68	-.24	13.44	4.73	7.70	14.52	27.75	8.23	-12.52	-6.35		34.40	.48	1	6.88	6.29			
64	121	185	19.58	-.96	18.62	2.88	7.62	14.63	28.18	10.18	-11.16	-6.66		34.01	.48	1	6.89	6.29			
64	122	186	23.83	-1.70	22.13	4.57	7.45	14.94	28.59	8.82	-13.09	-6.90		33.60	.48	1	6.91	6.30			
64	123	187	29.95	-2.48	27.47	2.73	7.30	15.04	29.01	10.76	-11.72	-7.18		33.19	.48	1	6.92	6.31			
64	124	188	34.42	-3.29	31.13	4.41	7.14	15.35	29.42	9.40	-13.65	-7.43		32.76	.48	1	6.94	6.32			
64	125	189	40.76	-4.14	36.62	2.58	6.99	15.44	29.83	11.33	-12.28	-7.70		32.33	.48	1	6.95	6.32			
64	126	190	45.45	-5.01	40.44	4.25	6.83	15.75	30.23	9.98	-16.07	-7.95		31.78	.46	1	6.97	6.33			
64	127	191	51.99	-4.05	47.94	.57	4.82	15.85	30.65	13.75	-14.70	-6.36		31.33	.46	1	6.99	6.34			
64	128	192	56.90	-3.13	53.77	2.24	2.81	16.16	31.06	12.40	-16.59	-4.75		30.74	.44	2	7.00	6.35			
64	129	193	63.64	-2.25	61.39	.45	2.69	16.26	31.47	14.29	-15.23	-5.05		30.27	.44	2	7.02	6.35			
64	130	194	68.75	-1.41	67.34	2.12	2.57	16.57	31.88	12.93	-17.11	-5.34		29.79	.44	2	7.03	6.36			
64	131	195	75.69	-.62	75.07	.34	2.46	16.66	32.28	14.81	-15.74	-5.64		29.29	.44	2	7.05	6.37			
64	132	196	81.01	.14	81.15	2.00	2.33	16.96	32.67	13.47	-17.56	-5.91		28.79	.44	2	7.06	6.38			
64	133	197	88.13	.80	88.93	.29	2.29	17.08	33.12	15.27	-15.73	-6.27	.07	28.29	.44	2	7.08	6.38			
64	134	198	93.64	.91	94.55	2.45	2.74	17.39	33.59	13.41	-17.42	-7.11	.12	27.77	.44	2	7.09	6.39			
64	135	199	100.96	.82	101.78	.86	3.29	17.48	33.98	15.10	-16.01	-8.12	.14	27.25	.44	2	7.11	6.40			
64	136	200	106.66	.65	107.31	2.54	3.39	17.77	34.37	13.71	-17.86	-8.68	.15	26.72	.44	2	7.12	6.41			
64	137	201	114.15	.45	114.60	.78	3.32	17.86	34.76	15.56	-16.54	-9.01	.16	26.18	.44	2	7.13	6.41			
64	138	202	120.04	.25	120.29	2.39	3.16	18.14	35.12	14.24	-18.40	-9.23	.17	25.63	.44	2	7.15	6.42			
64	139	203	127.71	.04	127.75	.61	3.00	18.23	35.50	16.10	-17.09	-9.45	.17	25.08	.44	2	7.16	6.43			
64	140	204	133.78	-.16	133.62	2.20	2.81	18.50	35.86	14.80	-18.95	-9.64	.17	24.52	.44	2	7.18	6.44			
64	141	205	141.61	-.35	141.26	.43	2.63	18.60	36.24	16.66	-17.65	-9.84	.18	23.95	.44	2	7.19	6.44			
64	142	206	147.86	-.53	147.33	2.00	2.43	18.87	36.59	15.36	-19.49	-10.00	.18	23.38	.44	2	7.21	6.45			
64	143	207	155.86	-.70	155.16	.24	2.25	18.95	36.96	17.21	-18.20	-10.18	.18	22.80	.44	2	7.22	6.46			
64	144	208	162.28	-.86	161.42	1.81	2.05	19.22	37.31	15.92	-20.03	-10.35	.18	22.22	.44	2	7.24	6.47			
64	145	209	170.44	-1.00	169.44	.05	1.86	19.30	37.67	17.77	-18.74	-10.52	.18	21.62	.44	2	7.25	6.47			
64	146	210	177.02	-1.13	175.89	1.62	1.67	19.58	38.02	16.47	-20.57	-10.69	.18	20.88	.42	3	7.26	6.48			
64	148	212	192.09	-1.35	190.74	1.43	1.30	19.92	38.71	17.02	-21.08	-11.01	.18	19.66	.42	3	7.29	6.49			
64	150	214	207.47	-1.52	205.95	1.24	.93	20.26	39.39	17.56	-21.60	-11.34	.18	18.42	.42	3	7.32	6.51			
64	152	216	223.15	-1.64	221.51	1.06	.58	20.59	40.08	18.08	-22.11	-11.68	.18	17.17	.42	3	7.35	6.52			
64	154	218	239.13	-1.70	237.43	.88	.23	20.92	40.74	18.60	-22.61	-12.00	.18	15.89	.42	3	7.38	6.54			
64	156	220	255.39	-1.71	253.68	.72	-.11	21.25	41.41	19.10	-23.10	-12.34	.18	14.59	.42	3	7.40	6.55			
64	158	222	271.94	-1.66	270.28	.54	-.45	21.57	42.05	19.61	-23.58	-12.65	.18	13.27	.42	3	7.43	6.57			
64	160	224	288.76	-1.56	287.20	.38	-.77	21.89	42.69	20.11	-24.05	-12.98	.18	11.94	.42	3	7.46	6.58			
64	162	226	305.85	-1.41	304.44	.22	-1.10	22.20	43.32	20.59	-24.51	-13.30	.18	10.41	.40	3	7.49	6.60			
64	164	228	323.20	-1.22	321.98	.06	-1.40	22.51	43.95	21.06	-24.97	-13.62	.18	9.04	.40	3	7.51	6.61			
64	176	240	432.43	-.89	431.54	.08	-1.47	24.25	47.40	22.90	-26.60	-17.14		.38	.38	3	7.67	6.70			
64	178	242	451.44	-2.27	449.17	.02	-1.48	24.53	47.96	23.24	-26.93	-17.62		-1.07	.38	3	7.70	6.72			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SADDLE DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
65	65	130	-12.34	.67	-11.67	13.01	28.36	-2.41	-2.30	-13.71	15.73	3.98	.19	28.99	.38	3	5.87	5.91			
65	66	131	-18.80	.72	-18.08	14.48	27.48	-2.03	-1.45	-14.80	12.94	3.98	.19	29.71	.38	3	5.89	5.92			
65	67	132	-22.97	.78	-22.19	12.17	26.66	-1.55	-.81	-11.81	14.26	3.93	.19	30.39	.38	3	5.91	5.93			
65	68	133	-28.64	.87	-27.77	13.66	25.83	-1.39	-.20	-13.13	11.74	3.92	.18	31.11	.40	3	5.94	5.93			
65	69	134	-32.25	.96	-31.29	11.59	25.25	-.93	.42	-10.61	13.08	3.86	.18	31.74	.40	3	5.96	5.94			
65	70	135	-37.37	1.06	-36.31	13.09	24.68	-.78	1.03	-11.96	10.59	3.81	.18	32.34	.40	3	5.98	5.95			
65	71	136	-40.46	1.17	-39.29	11.05	24.14	-.32	1.64	-9.47	11.94	3.74	.17	32.91	.40	3	6.00	5.96			
65	72	137	-45.06	1.28	-43.78	12.56	23.61	-.16	2.24	-10.83	9.47	3.66	.17	33.45	.40	3	6.02	5.96			
65	73	138	-47.64	1.39	-46.25	10.55	23.10	.29	2.83	-8.37	10.86	3.56	.16	33.95	.40	3	6.04	5.97			
65	74	139	-51.73	1.47	-50.26	12.08	22.63	.44	3.41	-9.75	8.47	3.43	.15	34.43	.40	3	6.06	5.98			
65	75	140	-53.82	1.50	-52.32	10.14	22.21	.88	3.99	-7.37	9.95	3.25	.13	34.88	.40	3	6.08	5.98			
65	76	141	-57.41	1.41	-56.00	11.75	21.89	1.01	4.54	-8.84	7.87	3.00	.10	35.30	.40	3	6.10	5.99			
65	77	142	-59.04	1.02	-58.02	10.09	21.84	1.45	5.06	-6.74	9.53	2.46		35.75	.42	3	6.13	6.00			
65	78	143	-62.16	.31	-61.85	11.90	21.99	1.59	5.64	-8.38	7.18	1.76		36.13	.42	3	6.15	6.01			
65	79	144	-63.33	-.44	-63.77	10.00	21.89	2.03	6.22	-6.05	8.58	1.34		36.47	.42	3	6.17	6.01			
65	80	145	-65.99	-1.24	-67.23	11.53	21.52	2.17	6.78	-7.44	6.27	1.13		36.79	.42	3	6.19	6.02			
65	81	146	-66.72	-2.08	-68.80	9.64	21.17	2.60	7.36	-5.14	7.66	.90		37.08	.42	3	6.20	6.03	-67.78	-1.06	1.02
65	82	147	-68.94	-2.97	-71.91	11.18	20.82	2.74	7.92	-6.53	3.45	.69		37.35	.42	3	6.22	6.03	-70.56	-1.62	1.35
65	83	148	-69.25	-1.99	-71.24	7.40	18.58	3.17	8.50	-2.34	4.85	2.36		37.60	.42	3	6.24	6.04	-70.59	-1.34	.65
65	84	149	-71.05	-1.08	-72.13	8.96	16.36	3.32	9.07	-3.75	2.58	4.02		37.82	.42	3	6.26	6.05	-71.38	-.33	.75
65	85	150	-70.94	-.22	-71.16	7.11	16.06	3.74	9.64	-1.49	3.99	3.74		38.01	.42	3	6.28	6.06	-71.06	-.12	.10
65	86	151	-72.33	.58	-71.75	8.66	15.77	3.89	10.20	-2.89	1.80	3.46		38.19	.42	3	6.30	6.06	-71.56	.77	.19
65	87	152	-71.83	1.26	-70.57	6.90	15.55	4.31	10.79	-.72	3.61	3.11	.08	38.34	.42	3	6.32	6.07	-70.87	.96	-.30
65	88	153	-72.82	1.46	-71.36	8.86	15.76	4.47	11.38	-2.56	1.53	2.35	.12	38.47	.42	3	6.34	6.08	-71.31	1.51	.05
65	89	154	-71.93	1.46	-70.47	7.19	16.04	4.87	11.94	-.50	2.96	1.47	.14	38.58	.42	3	6.36	6.08	-70.29	1.64	.18
65	90	155	-72.54	1.38	-71.16	8.76	15.95	5.02	12.49	-1.93	.73	.97	.15	38.67	.42	3	6.38	6.09	-71.22	1.32	-.06
65	91	156	-71.29	1.26	-70.03	6.94	15.70	5.42	13.04	.27	2.09	.66	.16	38.81	.44	2	6.39	6.10	-70.22	1.07	-.19
65	92	157	-71.52	1.14	-70.38	8.43	15.37	5.56	13.56	-1.08	-.14	.45	.16	38.86	.44	2	6.41	6.11	-70.76	.76	-.38
65	93	158	-69.91	1.00	-68.91	6.60	15.03	5.95	14.10	1.13	1.20	.24	.17	38.89	.44	2	6.43	6.11	-69.44	.47	-.53
65	94	159	-69.78	.88	-68.90	8.07	14.66	6.08	14.61	-.20	-1.02	.08	.17	38.90	.44	2	6.45	6.12	-69.50	.28	-.60
65	95	160	-67.83	.76	-67.07	6.24	14.31	6.48	15.13	2.01	.31	-.10	.17	38.89	.44	2	6.47	6.13	-67.81	.02	-.74
65	96	161	-67.35	.65	-66.70	7.70	13.94	6.61	15.64	.67	-1.90	-.25	.18	38.86	.44	2	6.48	6.14	-67.44	-.09	-.74
65	97	162	-65.06	.56	-64.50	5.88	13.58	6.99	16.15	2.88	-.56	-.41	.18	38.82	.44	2	6.50	6.14	-65.69	-.63	-1.19
65	98	163	-64.25	.47	-63.78	7.34	13.23	7.12	16.66	1.54	-2.76	-.57	.18	38.76	.44	2	6.52	6.15	-64.67	-.42	-.89
65	99	164	-61.63	.41	-61.22	5.52	12.86	7.49	17.15	3.73	-1.41	-.72	.18	38.68	.44	2	6.54	6.16	-62.59	-.96	-1.37
65	100	165	-60.49	.35	-60.14	6.98	12.51	7.62	17.66	2.40	-3.59	-.87	.18	38.58	.44	2	6.55	6.16			
65	101	166	-57.57	.32	-57.25	5.19	12.17	8.00	18.15	4.56	-2.26	-1.03	.18	38.47	.44	2	6.57	6.17			
65	102	167	-56.11	.29	-55.82	6.64	11.82	8.12	18.64	3.23	-4.42	-1.18	.18	38.34	.44	2	6.59	6.18			
65	103	168	-52.88	.28	-52.60	4.85	11.49	8.49	19.13	5.38	-3.10	-1.35	.18	38.19	.44	2	6.61	6.19			
65	104	169	-51.12	.29	-50.83	6.30	11.15	8.62	19.61	4.05	-5.23	-1.50	.18	38.03	.44	2	6.62	6.19			
65	105	170	-47.59	.31	-47.28	4.52	10.82	8.97	20.09	6.19	-3.90	-1.66	.18	37.86	.44	2	6.64	6.20			
65	106	171	-45.53	.34	-45.19	5.97	10.51	9.09	20.57	4.86	-6.02	-1.82	.18	37.67	.44	2	6.66	6.21			
65	107	172	-41.73	.39	-41.34	4.22	10.20	9.46	21.05	6.96	-4.70	-2.00	.17	37.46	.44	2	6.67	6.21			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
65	108	173	-39.37	.45	-38.92	5.66	9.88	9.57	21.51	5.64	-6.79	-2.14	.17	37.24	.44	2	6.69	6.22			
65	109	174	-35.29	.53	-34.76	3.91	9.57	9.92	21.97	7.74	-5.46	-2.32	.17	37.01	.44	2	6.71	6.23			
65	110	175	-32.66	.61	-32.05	5.36	9.27	10.04	22.44	6.41	-7.54	-2.48	.17	36.76	.44	2	6.72	6.24			
65	111	176	-28.31	.70	-27.61	3.63	8.99	10.39	22.90	8.48	-6.22	-2.67	.17	36.50	.44	2	6.74	6.24			
65	112	177	-25.41	.80	-24.61	5.07	8.70	10.51	23.35	7.15	-8.28	-2.84	.16	36.23	.44	2	6.76	6.25			
65	113	178	-20.80	.91	-19.89	3.36	8.43	10.85	23.80	9.21	-6.94	-3.03	.16	35.94	.44	2	6.77	6.26			
65	114	179	-17.63	1.01	-16.62	4.80	8.16	10.96	24.24	7.88	-8.96	-3.21	.15	35.64	.44	2	6.79	6.27			
65	115	180	-12.77	1.10	-11.67	3.12	7.92	11.30	24.70	9.89	-7.60	-3.43	.15	35.33	.44	2	6.81	6.27			
65	116	181	-9.35	1.16	-8.19	4.59	7.71	11.41	25.13	8.53	-9.57	-3.66	.14	35.01	.44	2	6.82	6.28			
65	117	182	-4.24	1.17	-3.07	2.96	7.54	11.74	25.56	10.50	-8.07	-3.94	.12	34.67	.44	2	6.84	6.29			
65	118	183	-.57	1.01	.44	4.56	7.52	11.85	25.97	9.02	-9.66	-4.35	.08	34.33	.44	2	6.85	6.29			
65	119	184	4.77	.44	5.21	3.29	7.86	12.18	26.39	10.62	-8.23	-5.12		33.97	.44	2	6.87	6.30			
65	120	185	8.68	-.24	8.44	4.84	8.14	12.28	26.81	9.20	-10.18	-5.81		33.60	.44	2	6.88	6.31			
65	121	186	14.26	-.95	13.31	3.20	8.05	12.60	27.23	11.16	-8.82	-6.13		33.22	.44	2	6.90	6.32			
65	122	187	18.40	-1.69	16.71	4.67	7.88	12.71	27.64	9.80	-10.76	-6.39		32.83	.44	2	6.92	6.32			
65	123	188	24.20	-2.47	21.73	3.05	7.72	13.03	28.06	11.73	-9.40	-6.66		32.43	.44	2	6.93	6.33			
65	124	189	28.57	-3.28	25.29	4.51	7.56	13.13	28.48	10.37	-11.33	-6.91		32.02	.44	2	6.95	6.34			
65	125	190	34.59	-4.12	30.47	2.89	7.40	13.44	28.88	12.30	-9.97	-7.17		31.60	.44	2	6.96	6.35			
65	126	191	39.18	-4.99	34.19	4.35	7.24	13.54	29.29	10.94	-13.75	-7.42		31.17	.44	2	6.98	6.35			
65	127	192	45.41	-4.03	41.38	.88	5.23	13.85	29.71	14.71	-12.39	-5.82		30.73	.44	2	6.99	6.36			
65	128	193	50.21	-3.11	47.10	2.35	3.23	13.96	30.12	13.35	-14.29	-4.22		30.29	.44	2	7.01	6.37			
65	129	194	56.65	-2.24	54.41	.76	3.11	14.27	30.53	15.24	-12.93	-4.52		29.83	.44	2	7.02	6.38			
65	130	195	61.66	-1.40	60.26	2.23	2.98	14.38	30.93	13.88	-14.81	-4.81		29.36	.44	2	7.04	6.38			
65	131	196	68.30	-.61	67.69	.64	2.86	14.67	31.33	15.76	-13.45	-5.10		28.89	.44	2	7.05	6.39			
65	132	197	73.52	.14	73.66	2.10	2.74	14.77	31.73	14.41	-15.27	-5.38		28.40	.44	2	7.07	6.40			
65	133	198	80.34	.80	81.14	.59	2.69	15.08	32.15	16.21	-13.42	-5.73	.07	27.91	.44	2	7.08	6.40			
65	134	199	85.76	.92	86.68	2.54	3.12	15.17	32.55	14.35	-15.09	-6.56	.12	27.41	.44	2	7.10	6.41			
65	135	200	92.78	.82	93.60	1.15	3.69	15.46	32.94	15.99	-13.71	-7.54	.14	26.91	.44	2	7.11	6.42			
65	136	201	98.39	.66	99.05	2.63	3.77	15.55	33.32	14.60	-15.55	-8.03	.15	26.39	.44	2	7.13	6.43			
65	137	202	105.59	.46	106.05	1.06	3.69	15.84	33.70	16.44	-14.24	-8.34	.16	25.87	.44	2	7.14	6.43			
65	138	203	111.39	.26	111.65	2.47	3.54	15.93	34.07	15.12	-16.10	-8.56	.17	25.34	.44	2	7.16	6.44			
65	139	204	118.76	.06	118.82	.90	3.37	16.22	34.45	16.98	-14.80	-8.78	.17	24.80	.44	2	7.17	6.45			
65	140	205	124.74	-.14	124.60	2.29	3.19	16.31	34.82	15.67	-16.66	-8.97	.17	24.25	.44	2	7.19	6.46			
65	141	206	132.30	-.33	131.97	.71	2.99	16.58	35.18	17.53	-15.36	-9.14	.17	23.56	.42	3	7.20	6.46			
65	142	207	138.46	-.51	137.95	2.09	2.80	16.67	35.54	16.24	-17.21	-9.31	.18	23.00	.42	3	7.21	6.47			
65	143	208	146.18	-.68	145.50	.51	2.61	16.95	35.90	18.08	-15.92	-9.49	.18	22.43	.42	3	7.23	6.48			
65	144	209	152.51	-.83	151.68	1.89	2.41	17.03	36.25	16.80	-17.76	-9.65	.18	21.86	.42	3	7.24	6.49			
65	145	210	160.39	-.98	159.41	.33	2.23	17.31	36.62	18.62	-16.48	-9.84	.18	21.28	.42	3	7.26	6.49			
65	146	211	166.89	-1.11	165.78	1.70	2.04	17.40	36.97	17.33	-18.31	-10.00	.18	20.69	.42	3	7.27	6.50			
65	147	212	174.94	-1.22	173.72	.14	1.84	17.67	37.32	19.17	-17.02	-10.16	.18	20.10	.42	3	7.29	6.51			
65	148	213	181.61	-1.33	180.28	1.50	1.65	17.74	37.66	17.88	-18.84	-10.32	.18	19.51	.42	3	7.30	6.52			
65	150	215	196.63	-1.49	195.14	1.33	1.28	18.10	38.35	18.41	-19.36	-10.65	.18	18.30	.42	3	7.33	6.53			
65	152	217	211.97	-1.61	210.36	1.14	.92	18.44	39.04	18.93	-19.88	-10.98	.18	17.06	.42	3	7.36	6.55			
65	154	219	227.61	-1.67	225.94	.96	.57	18.78	39.70	19.45	-20.39	-11.30	.18	15.81	.42	3	7.38	6.56			
65	156	221	243.54	-1.67	241.87	.78	.21	19.11	40.36	19.97	-20.88	-11.62	.18	14.53	.42	3	7.41	6.58			
65	158	223	259.75	-1.63	258.12	.62	-.11	19.45	41.02	20.45	-21.38	-11.95	.18	13.24	.42	3	7.44	6.59			
65	160	225	276.25	-1.53	274.72	.44	-.45	19.77	41.66	20.95	-21.86	-12.27	.18	11.75	.40	3	7.47	6.60			
65	162	227	293.01	-1.38	291.63	.29	-.77	20.10	42.30	21.43	-22.34	-12.59	.18	10.42	.40	3	7.49	6.62			
65	164	229	310.05	-1.18	308.87	.12	-1.09	20.41	42.91	21.91	-22.79	-12.90	.18	9.08	.40	3	7.52	6.63			
65	176	241	417.47	-.89	416.58	.13	-1.18	22.25	46.50	23.78	-24.54	-16.47		.53	.38	3	7.68	6.72			
65	178	243	436.19	-2.26	433.93	.07	-1.21	22.53	47.06	24.13	-24.88	-17.00		-1.06	.36	3	7.70	6.74			
65	180	245	455.13	-3.73	451.40	.01	-1.33	22.82	47.62	24.47	-25.21	-17.44		-2.48	.36	3	7.73	6.75			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
66	60	126	30.18	.61	30.79	17.19	32.58	-2.74	-7.16	-21.92	16.49	4.18	.19	22.54	.34	3	5.77	5.90			
66	61	127	23.59	.58	24.17	14.70	31.89	-2.58	-6.52	-19.26	17.82	4.22	.19	23.41	.34	3	5.79	5.91			
66	62	128	15.19	.56	15.75	16.49	31.19	-2.11	-5.88	-20.57	15.20	4.27	.19	24.24	.34	3	5.81	5.92			
66	63	129	9.23	.56	9.79	14.04	30.52	-1.95	-5.24	-17.95	16.53	4.29	.19	25.30	.36	3	5.84	5.92			
66	64	130	1.47	.57	2.04	15.82	29.85	-1.49	-4.61	-19.26	13.71	4.33	.19	26.10	.36	3	5.86	5.93			
66	65	131	-3.89	.61	-3.28	13.39	29.21	-1.10	-3.51	-16.68	14.81	4.32	.19	26.87	.36	3	5.88	5.94			
66	66	132	-11.04	.66	-10.38	15.17	28.56	-.42	-2.44	-17.99	11.80	4.35	.19	27.60	.36	3	5.90	5.94			
66	67	133	-15.37	.73	-14.64	12.33	27.50	-.25	-1.81	-14.98	13.13	4.31	.18	28.41	.38	3	5.92	5.95			
66	68	134	-21.49	.81	-20.68	14.11	26.44	.20	-1.20	-16.08	10.61	4.29	.18	29.09	.38	3	5.95	5.96			
66	69	135	-25.26	.91	-24.35	11.75	25.86	.35	-.58	-13.33	11.96	4.25	.18	29.75	.38	3	5.97	5.97			
66	70	136	-30.83	1.02	-29.81	13.53	25.28	.79	.01	-14.65	9.48	4.22	.18	30.37	.38	3	5.99	5.97			
66	71	137	-34.08	1.13	-32.95	11.20	24.74	.95	.63	-12.17	10.82	4.14	.17	30.96	.38	3	6.01	5.98			
66	72	138	-39.12	1.24	-37.88	13.00	24.21	1.39	1.23	-13.51	8.37	4.07	.17	31.59	.40	3	6.03	5.99			
66	73	139	-41.86	1.35	-40.51	10.71	23.70	1.55	1.83	-11.06	9.75	3.96	.16	32.13	.40	3	6.05	5.99			
66	74	140	-46.38	1.43	-44.95	12.51	23.22	1.98	2.42	-12.42	7.37	3.85	.15	32.64	.40	3	6.07	6.00			
66	75	141	-48.63	1.46	-47.17	10.29	22.81	2.14	3.01	-10.05	8.83	3.66	.13	33.12	.40	3	6.09	6.01			
66	76	142	-52.65	1.37	-51.28	12.18	22.48	2.56	3.59	-11.49	6.74	3.41	.10	33.57	.40	3	6.11	6.02			
66	77	143	-54.43	.96	-53.47	10.26	22.45	2.74	4.18	-9.39	8.38	2.84		33.99	.40	3	6.13	6.02			
66	78	144	-57.97	.25	-57.72	12.32	22.58	3.15	4.75	-10.96	6.05	2.13		34.39	.40	3	6.15	6.03			
66	79	145	-59.29	-.49	-59.78	10.14	22.46	3.30	5.32	-8.62	7.45	1.66		34.76	.40	3	6.17	6.04			
66	80	146	-62.38	-1.29	-63.67	11.95	22.09	3.72	5.90	-10.02	5.13	1.45		35.10	.40	3	6.19	6.04			
66	81	147	-63.25	-2.13	-65.38	9.78	21.74	3.86	6.46	-7.71	6.53	1.23		35.42	.40	3	6.21	6.05			
66	82	148	-65.89	-3.01	-68.90	11.59	21.38	4.27	7.02	-9.09	2.34	1.03		35.78	.42	3	6.23	6.06	-67.79	-1.90	1.11
66	83	149	-66.34	-2.04	-68.38	7.55	19.14	4.42	7.60	-4.91	3.74	2.69		36.05	.42	3	6.25	6.07	-67.48	-1.14	.90
66	84	150	-68.55	-1.12	-69.67	9.37	16.92	4.84	8.16	-6.29	1.49	4.37		36.30	.42	3	6.27	6.07	-69.10	-.55	.57
66	85	151	-68.59	-.27	-68.86	7.26	16.62	4.99	8.73	-4.04	2.88	4.08		36.53	.42	3	6.29	6.08	-68.55	.04	.31
66	86	152	-70.38	.53	-69.85	9.07	16.32	5.40	9.28	-5.43	.72	3.82		36.73	.42	3	6.31	6.09	-70.06	.32	-.21
66	87	153	-70.02	1.22	-68.80	7.03	16.09	5.52	9.83	-3.24	2.56	3.48	.07	36.91	.42	3	6.33	6.09	-69.09	.93	-.29
66	88	154	-71.41	1.43	-69.98	9.25	16.28	5.91	10.38	-5.08	.49	2.74	.12	37.07	.42	3	6.35	6.10	-70.36	1.05	-.38
66	89	155	-70.66	1.44	-69.22	7.32	16.56	6.04	10.91	-3.06	1.94	1.90	.14	37.20	.42	3	6.37	6.11	-69.12	1.54	.10
66	90	156	-71.66	1.36	-70.30	9.15	16.47	6.43	11.45	-4.49	-.28	1.46	.15	37.32	.42	3	6.38	6.12	-70.49	1.17	-.19
66	91	157	-70.55	1.25	-69.30	7.08	16.22	6.57	11.99	-2.29	1.08	1.16	.16	37.41	.42	3	6.40	6.12	-69.39	1.16	-.09
66	92	158	-71.16	1.12	-70.04	8.81	15.88	6.95	12.50	-3.64	-1.14	.97	.16	37.49	.42	3	6.42	6.13	-70.38	.78	-.34

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	GD STA MASS	SADDLE DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
66	93	159	-69.69	.99	-68.70	6.73	15.54	7.08	13.04	-1.42	.20	.77	.17	37.54	.42	3	6.44	6.14	-69.14	.55	-.44
66	94	160	-69.94	.87	-69.07	8.45	15.17	7.46	13.54	-2.74	-2.00	.62	.17	37.58	.42	3	6.46	6.14	-69.65	.29	-.58
66	95	161	-68.12	.75	-67.37	6.37	14.81	7.59	14.07	-.53	-.67	.45	.17	37.59	.42	3	6.48	6.15	-68.03	.09	-.66
66	96	162	-68.02	.64	-67.38	8.07	14.45	7.97	14.58	-1.86	-2.88	.30	.17	37.59	.42	3	6.49	6.16	-68.15	-.13	-.77
66	97	163	-65.87	.55	-65.32	6.01	14.09	8.11	15.09	.34	-1.55	.14	.18	37.57	.42	3	6.51	6.17	-66.35	-.48	-1.03
66	98	164	-65.42	.47	-64.95	7.71	13.71	8.47	15.59	-.97	-3.72	.01	.18	37.53	.42	3	6.53	6.17	-65.93	-.51	-.98
66	99	165	-62.94	.40	-62.54	5.66	13.37	8.60	16.10	1.20	-2.40	-.16	.18	37.55	.44	2	6.55	6.18	-63.58	-.64	-1.04
66	100	166	-62.16	.35	-61.81	7.34	13.00	8.96	16.58	-.11	-4.56	-.29	.18	37.48	.44	2	6.56	6.19	-62.56	-.40	-.75
66	101	167	-59.37	.31	-59.06	5.31	12.66	9.09	17.09	2.05	-3.24	-.46	.18	37.39	.44	2	6.58	6.19			
66	102	168	-58.27	.29	-57.98	7.00	12.31	9.45	17.57	.74	-5.38	-.60	.18	37.29	.44	2	6.60	6.20			
66	103	169	-55.17	.28	-54.89	4.98	11.98	9.58	18.07	2.88	-4.06	-.77	.18	37.16	.44	2	6.61	6.21			
66	104	170	-53.76	.29	-53.47	6.66	11.63	9.93	18.54	1.57	-6.19	-.91	.18	37.03	.44	2	6.63	6.22			
66	105	171	-50.36	.31	-50.05	4.65	11.31	10.05	19.03	3.69	-4.86	-1.08	.18	36.87	.44	2	6.65	6.22			
66	106	172	-48.65	.35	-48.30	6.33	10.98	10.40	19.50	2.38	-6.97	-1.22	.17	36.71	.44	2	6.67	6.23			
66	107	173	-44.96	.40	-44.56	4.34	10.66	10.52	19.97	4.50	-5.64	-1.39	.17	36.52	.44	2	6.68	6.24			
66	108	174	-42.96	.46	-42.50	6.01	10.34	10.87	20.44	3.18	-7.74	-1.54	.17	36.33	.44	2	6.70	6.24			
66	109	175	-38.99	.53	-38.46	4.03	10.04	10.98	20.91	5.27	-6.41	-1.72	.17	36.11	.44	2	6.72	6.25			
66	110	176	-36.70	.62	-36.08	5.69	9.72	11.32	21.36	3.97	-8.47	-1.87	.17	35.89	.44	2	6.73	6.26			
66	111	177	-32.47	.71	-31.76	3.74	9.44	11.44	21.83	6.03	-7.16	-2.06	.17	35.65	.44	2	6.75	6.27			
66	112	178	-29.91	.81	-29.10	5.41	9.16	11.79	22.29	4.71	-9.21	-2.23	.16	35.40	.44	2	6.76	6.27			
66	113	179	-25.41	.91	-24.50	3.47	8.88	11.90	22.75	6.77	-7.88	-2.42	.16	35.13	.44	2	6.78	6.28			
66	114	180	-22.58	1.01	-21.57	5.14	8.62	12.23	23.20	5.44	-9.90	-2.61	.15	34.85	.44	2	6.80	6.29			
66	115	181	-17.83	1.10	-16.73	3.24	8.38	12.35	23.65	7.47	-8.55	-2.82	.15	34.56	.44	2	6.81	6.30			
66	116	182	-14.73	1.16	-13.57	4.91	8.15	12.67	24.08	6.13	-10.49	-3.04	.13	34.26	.44	2	6.83	6.30			
66	117	183	-9.74	1.16	-8.58	3.08	8.00	12.79	24.54	8.09	-9.01	-3.34	.12	33.95	.44	2	6.85	6.31			
66	118	184	-6.39	.98	-5.41	4.90	7.98	13.13	24.98	6.61	-10.62	-3.77	.07	33.62	.44	2	6.86	6.32			
66	119	185	-1.16	.39	-.77	3.42	8.33	13.27	25.45	8.24	-9.21	-4.57		33.28	.44	2	6.88	6.32			
66	120	186	2.43	-.28	2.15	5.16	8.58	13.58	25.87	6.87	-11.16	-5.27		32.93	.44	2	6.89	6.33			
66	121	187	7.90	-.99	6.91	3.31	8.47	13.69	26.29	8.83	-9.80	-5.62		32.57	.44	2	6.91	6.34			
66	122	188	11.73	-1.73	10.00	4.99	8.30	14.00	26.70	7.48	-11.73	-5.86		32.20	.44	2	6.92	6.35			
66	123	189	17.43	-2.51	14.92	3.15	8.13	14.09	27.12	9.42	-10.37	-6.13		31.82	.44	2	6.94	6.35			
66	124	190	21.49	-3.31	18.18	4.81	7.96	14.40	27.53	8.07	-12.28	-6.37		31.43	.44	2	6.95	6.36			
66	125	191	27.40	-4.15	23.25	3.00	7.81	14.50	27.95	9.99	-10.94	-6.64		31.03	.44	2	6.97	6.37			
66	126	192	31.69	-5.02	26.67	4.65	7.65	14.81	28.34	8.65	-14.70	-6.88		30.62	.44	2	6.99	6.38			
66	127	193	37.81	-4.06	33.75	.99	5.64	14.92	28.77	12.41	-13.35	-5.29		30.19	.44	2	7.00	6.38			
66	128	194	42.32	-3.15	39.17	2.65	3.64	15.22	29.18	11.06	-15.24	-3.69		29.76	.44	2	7.02	6.39			
66	129	195	48.65	-2.27	46.38	.87	3.51	15.32	29.59	12.95	-13.88	-3.99		29.32	.44	2	7.03	6.40			
66	130	196	53.37	-1.44	51.93	2.52	3.38	15.62	29.99	11.61	-15.75	-4.27		28.87	.44	2	7.05	6.40			
66	131	197	59.90	-.65	59.25	.75	3.27	15.73	30.40	13.48	-14.41	-4.57		28.42	.44	2	7.06	6.41			
66	132	198	64.83	.09	64.92	2.40	3.15	16.02	30.80	12.13	-16.22	-4.85		27.95	.44	2	7.08	6.42			
66	133	199	71.56	.77	72.33	.66	3.06	16.10	31.18	13.97	-14.35	-5.17	.06	27.47	.44	2	7.09	6.43			
66	134	200	76.69	.92	77.61	2.79	3.46	16.36	31.53	12.12	-15.99	-5.96	.12	26.85	.42	3	7.11	6.43			
66	135	201	83.61	.84	84.45	1.24	4.03	16.44	31.90	13.71	-14.59	-6.90	.14	26.36	.42	3	7.12	6.44			
66	136	202	88.93	.68	89.61	2.91	4.14	16.73	32.27	12.31	-16.44	-7.37	.15	25.86	.42	3	7.13	6.45			
66	137	203	96.04	.49	96.53	1.16	4.06	16.81	32.65	14.15	-15.12	-7.67	.16	25.35	.42	3	7.15	6.46			
66	138	204	101.56	.29	101.85	2.75	3.90	17.09	33.01	12.84	-16.97	-7.88	.17	24.83	.42	3	7.16	6.46			
66	139	205	108.84	.09	108.93	.99	3.74	17.18	33.40	14.69	-15.67	-8.10	.17	24.31	.42	3	7.18	6.47			
66	140	206	114.55	-.11	114.44	2.56	3.55	17.45	33.76	13.40	-17.53	-8.27	.17	23.78	.42	3	7.19	6.48			
66	141	207	122.01	-.30	121.71	.79	3.36	17.54	34.13	15.25	-16.24	-8.46	.17	23.24	.42	3	7.21	6.49			
66	142	208	127.89	-.47	127.42	2.37	3.16	17.82	34.49	13.97	-18.08	-8.62	.18	22.70	.42	3	7.22	6.49			
66	143	209	135.53	-.64	134.89	.60	2.97	17.90	34.85	15.82	-16.78	-8.80	.18	22.15	.42	3	7.24	6.50			
66	144	210	141.59	-.80	140.79	2.16	2.77	18.17	35.21	14.53	-18.63	-8.96	.18	21.59	.42	3	7.25	6.51			
66	145	211	149.39	-.94	148.45	.41	2.58	18.25	35.57	16.37	-17.34	-9.14	.18	21.02	.42	3	7.26	6.51			
66	146	212	155.62	-1.07	154.55	1.97	2.38	18.52	35.92	15.09	-19.17	-9.30	.18	20.45	.42	3	7.28	6.52			
66	147	213	163.58	-1.18	162.40	.22	2.19	18.61	36.27	16.92	-17.88	-9.46	.18	19.87	.42	3	7.29	6.53			
66	148	214	169.98	-1.28	168.70	1.77	1.99	18.87	36.61	15.65	-19.69	-9.62	.18	19.29	.42	3	7.31	6.54			
66	149	215	178.10	-1.37	176.73	.04	1.81	18.95	36.97	17.46	-18.41	-9.79	.18	18.70	.42	3	7.32	6.54			
66	150	216	184.66	-1.45	183.21	1.59	1.63	19.22	37.31	16.18	-20.22	-9.95	.18	18.11	.42	3	7.34	6.55			
66	152	218	199.66	-1.56	198.10	1.40	1.26	19.55	37.99	16.72	-20.73	-10.27	.18	16.90	.42	3	7.36	6.57			
66	154	220	214.96	-1.62	213.34	1.22	.50	19.89	38.67	17.24	-21.24	-10.60	.18	15.67	.42	3	7.39	6.58			
66	156	222	230.56	-1.62	228.94	1.04	.55	20.22	39.33	17.76	-21.73	-10.92	.18	14.24	.40	3	7.42	6.60			
66	158	224	246.45	-1.58	244.87	.87	.21	20.54	39.99	18.26	-22.22	-11.24	.18	12.97	.40	3	7.45	6.61			
66	160	226	262.63	-1.48	261.15	.69	-.13	20.86	40.63	18.77	-22.70	-11.56	.18	11.69	.40	3	7.47	6.62			
66	162	228	279.08	-1.33	277.75	.53	-.46	21.17	41.27	19.26	-23.17	-11.88	.18	10.38	.40	3	7.50	6.64			
66	164	230	295.80	-1.13	294.67	.37	-.78	21.49	41.89	19.75	-23.63	-12.19	.18	9.06	.40	3	7.53	6.65			
66	166	232	312.78	-.89	311.89	.21	-1.08	21.80	42.52	20.22	-24.09	-12.52	.18	7.72	.40	3	7.55	6.67			
66	168	234	330.02	-.60	329.42	.06	-1.38	22.10	43.13	20.68	-24.54	-12.84	.18	6.36	.40	3	7.58	6.68			
66	176	242	401.44	-.92	400.52	.36	-.86	23.35	45.60	21.74	-25.41	-15.83		.46	.36	3	7.68	6.74			
66	178	244	419.88	-2.29	417.59	.29	-.93	23.63	46.16	22.09	-25.75	-16.38		-.93	.36	3	7.71	6.76			
66	180	246	438.54	-3.75	434.79	.22	-1.06	23.90	46.72	22.45	-26.08	-16.81		-2.34	.36	3	7.73	6.77			
66	182	248	457.42	-5.31	452.11	.16	-1.18	24.17	47.26	22.79	-26.40	-17.24		-3.76	.36	3	7.76	6.79			
66	184	250	476.51	-6.97	469.54	.10	-1.29	24.44	47.81	23.12	-28.52	-17.68		-5.15	.34	3	7.78	6.80			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	GD STA MASS	SADDLE DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
67	67	134	-5.29	.69	-4.60	13.01	28.35	-2.75	-3.00	-14.06	16.08	4.64	.18	26.30	.36	3	5.93	5.98			
67	68	135	-11.80	.78	-11.02	14.49	27.51	-2.36	-2.17	-15.15	13.33	4.64	.18	27.00	.36	3	5.96	5.98			
67	69	136	-16.04	.88	-15.16	12.21	26.70	-1.90	-1.55	-12.21	14.66	4.60	.18	27.67	.36	3	5.98	5.99			
67	70	137	-21.76	.98	-20.78	13.69	25.90	-1.75	-.95	-13.53	12.17	4.57	.18	28.30	.36	3	6.00	6.00			
67	71	138	-25.47	1.10	-24.37	11.66	25.35	-1.29	-.34	-11.06	13.51	4.50	.17	29.03	.38	3	6.02	6.01			
67	72	139	-30.66	1.21	-29.45	13.15	24.81	-1.14	.26	-12.40	11.06	4.44	.16	29.62	.38	3	6.04	6.01			
67	73	140	-33.85	1.32	-32.53	11.16	24.31	-.69	.86	-9.96	12.42	4.33	.16	30.18	.38	3	6.06	6.02			
67	74	141	-38.52	1.40	-37.12	12.67	23.82	-.54	1.44	-11.31	10.04	4.23	.15	30.71	.38	3	6.08	6.03			
67	75	142	-41.21	1.42	-39.79	10.74	23.41	-.09	2.05	-8.95	11.49	4.04	.13	31.29	.40	3	6.10	6.03			
67	76	143	-45.39	1.32	-44.07	12.36	23.09	.09	2.65	-10.39	9.40	3.76	.10	31.77	.40	3	6.12	6.04			
67	77	144	-47.60	.85	-46.75	10.75	23.10	.57	3.31	-8.32	10.97	3.15		32.22	.40	3	6.14	6.05			
67	78	145	-51.30	.15	-51.15	12.47	23.22	.72	3.88	-9.81	8.64	2.43		32.65	.40	3	6.16	6.06			
67	79	146	-53.05	-.60	-53.65	10.56	23.04	1.15	4.46	-7.49	10.01	1.95		33.05	.40	3	6.18	6.06			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
67	80	147	-56.29	-1.39	-57.68	12.10	22.67	1.30	5.03	-8.88	7.70	1.74		33.42	.40	3	6.20	6.07			
67	81	148	-57.59	-2.22	-59.81	10.21	22.30	1.72	5.59	-6.58	9.09	1.53		33.77	.40	3	6.22	6.08			
67	82	149	-60.37	-3.10	-63.47	11.73	21.94	1.86	6.14	-7.96	4.91	1.34		34.09	.40	3	6.24	6.08	-61.58	-1.21	1.89
67	83	150	-61.24	-2.13	-63.37	7.97	19.70	2.28	6.71	-3.79	6.30	3.01		34.39	.40	3	6.26	6.09	-62.00	-.76	1.37
67	84	151	-63.60	-1.22	-64.82	9.52	17.49	2.44	7.28	-5.19	4.04	4.67		34.66	.40	3	6.28	6.10	-63.50	.10	1.32
67	85	152	-64.05	-.37	-64.42	7.67	17.19	2.85	7.84	-2.93	5.43	4.40		34.91	.40	3	6.30	6.10	-63.67	.38	.75
67	86	153	-65.98	.42	-65.56	9.21	16.88	3.00	8.39	-4.32	3.24	4.14		35.14	.40	3	6.32	6.11	-64.83	1.15	.73
67	87	154	-66.03	1.14	-64.89	7.40	16.61	3.38	8.90	-2.12	5.08	3.85	.06	35.41	.42	3	6.34	6.12	-64.60	1.43	.29
67	88	155	-67.56	1.40	-66.16	9.34	16.74	3.48	9.38	-3.93	3.07	3.16	.11	35.60	.42	3	6.36	6.13	-65.82	1.74	.34
67	89	156	-67.22	1.42	-65.80	7.71	17.05	3.87	9.90	-2.00	4.50	2.34	.14	35.76	.42	3	6.37	6.13	-65.39	1.83	.41
67	90	157	-68.36	1.35	-67.01	9.28	16.99	4.00	10.43	-3.45	2.29	1.92	.15	35.90	.42	3	6.39	6.14	-66.89	1.47	.12
67	91	158	-67.64	1.24	-66.40	7.46	16.74	4.39	10.96	-1.26	3.64	1.65	.16	36.02	.42	3	6.41	6.15	-66.41	1.23	-.01
67	92	159	-68.40	1.12	-67.28	8.95	16.41	4.53	11.48	-2.62	1.42	1.45	.16	36.12	.42	3	6.43	6.15	-67.44	.96	-.16
67	93	160	-67.32	.99	-66.33	7.12	16.07	4.92	12.00	-.41	2.75	1.27	.17	36.20	.42	3	6.45	6.16	-66.73	.59	-.40
67	94	161	-67.71	.87	-66.84	8.59	15.70	5.06	12.52	-1.74	.53	1.12	.17	36.26	.42	3	6.47	6.17	-67.21	.50	-.37
67	95	162	-66.27	.75	-65.52	6.75	15.33	5.43	13.03	.46	1.86	.96	.17	36.30	.42	3	6.48	6.18	-65.98	.29	-.46
67	96	163	-66.31	.65	-65.66	8.21	14.96	5.57	13.54	-.86	-.34	.82	.17	36.32	.42	3	6.50	6.18	-66.34	-.03	-.68
67	97	164	-64.53	.55	-63.98	6.39	14.60	5.95	14.05	1.32	.97	.66	.18	36.33	.42	3	6.52	6.19	-64.96	-.43	-.98
67	98	165	-64.22	.48	-63.74	7.84	14.22	6.08	14.55	.01	-1.20	.53	.18	36.31	.42	3	6.54	6.20	-64.87	-.65	-1.13
67	99	166	-62.11	.41	-61.70	6.03	13.87	6.45	15.05	2.18	.11	.38	.18	36.28	.42	3	6.55	6.20	-63.04	-.93	-1.34
67	100	167	-61.47	.36	-61.11	7.48	13.51	6.58	15.55	.86	-2.06	.24	.18	36.23	.42	3	6.57	6.21	-62.30	-.83	-1.19
67	101	168	-59.04	.33	-58.71	5.68	13.15	6.95	16.04	3.03	-.73	.09	.18	36.16	.42	3	6.59	6.22	-60.20	-1.16	-1.49
67	102	169	-58.07	.30	-57.77	7.12	12.81	7.08	16.53	1.71	-2.89	-.06	.18	36.08	.42	3	6.61	6.23	-58.75	-.68	-.98
67	103	170	-55.33	.30	-55.03	5.34	12.46	7.44	17.01	3.85	-1.56	-.20	.18	35.98	.42	3	6.62	6.23	-56.39	-1.06	-1.36
67	104	171	-54.05	.31	-53.74	6.78	12.12	7.57	17.49	2.54	-3.69	-.35	.18	35.86	.42	3	6.64	6.24			
67	105	172	-51.01	.33	-50.68	5.01	11.79	7.92	17.97	4.66	-2.38	-.51	.17	35.73	.42	3	6.66	6.25			
67	106	173	-49.42	.36	-49.06	6.44	11.46	8.04	18.45	3.34	-4.50	-.66	.17	35.59	.42	3	6.67	6.25			
67	107	174	-46.10	.41	-45.69	4.70	11.15	8.41	18.94	5.44	-3.19	-.83	.17	35.42	.42	3	6.69	6.26			
67	108	175	-44.21	.48	-43.73	6.12	10.81	8.52	19.39	4.14	-5.27	-.97	.17	35.25	.42	3	6.71	6.27			
67	109	176	-40.60	.55	-40.05	4.39	10.51	8.88	19.86	6.22	-3.96	-1.14	.17	35.06	.42	3	6.72	6.28			
67	110	177	-38.43	.63	-37.80	5.82	10.21	9.00	20.33	4.90	-6.04	-1.30	.17	34.85	.42	3	6.74	6.28			
67	111	178	-34.54	.73	-33.81	4.09	9.90	9.34	20.78	6.98	-4.71	-1.47	.17	34.63	.42	3	6.76	6.29			
67	112	179	-32.09	.83	-31.26	5.52	9.61	9.46	21.23	5.67	-6.76	-1.64	.16	34.40	.42	3	6.77	6.30			
67	113	180	-27.94	.93	-27.01	3.82	9.34	9.80	21.70	7.71	-5.45	-1.83	.16	34.15	.42	3	6.79	6.30			
67	114	181	-25.22	1.03	-24.19	5.25	9.07	9.92	22.15	6.39	-7.47	-2.01	.15	33.89	.42	3	6.81	6.31			
67	115	182	-20.81	1.11	-19.70	3.57	8.83	10.26	22.61	8.40	-6.13	-2.23	.14	33.62	.42	3	6.82	6.32			
67	116	183	-17.83	1.16	-16.67	5.04	8.62	10.38	23.06	7.06	-8.09	-2.47	.13	33.34	.42	3	6.84	6.33			
67	117	184	-13.17	1.14	-12.03	3.43	8.47	10.74	23.53	9.00	-6.62	-2.79	.11	33.04	.42	3	6.85	6.33			
67	118	185	-9.93	.92	-9.01	5.06	8.49	10.89	24.02	7.52	-8.25	-3.25	.06	32.73	.42	3	6.87	6.34			
67	119	186	-5.03	.30	-4.73	3.79	8.85	11.26	24.52	9.20	-6.88	-4.08		32.41	.42	3	6.88	6.35			
67	120	187	-1.54	-.37	-1.91	5.26	9.04	11.35	24.93	7.86	-8.82	-4.77		32.08	.42	3	6.90	6.35			
67	121	188	3.60	-1.08	2.52	3.63	8.90	11.68	25.36	9.80	-7.48	-5.12		31.74	.42	3	6.92	6.36			
67	122	189	7.32	-1.82	5.50	5.09	8.73	11.78	25.78	8.45	-9.42	-5.37		31.39	.42	3	6.93	6.37			
67	123	190	12.69	-2.59	10.10	3.47	8.56	12.11	26.21	10.38	-8.07	-5.63		31.02	.42	3	6.95	6.38			
67	124	191	16.65	-3.39	13.26	4.92	8.39	12.20	26.61	9.04	-9.99	-5.87		30.65	.42	3	6.96	6.38			
67	125	192	22.25	-4.23	18.02	3.31	8.23	12.51	27.02	10.95	-8.65	-6.13		30.26	.42	3	6.98	6.39			
67	126	193	26.43	-5.09	21.34	4.76	8.06	12.62	27.42	9.61	-12.41	-6.37		29.87	.42	3	6.99	6.40			
67	127	194	32.25	-4.14	28.11	1.30	6.06	12.93	27.84	13.36	-11.06	-4.78		29.46	.42	3	7.01	6.40			
67	128	195	36.65	-3.22	33.43	2.76	4.05	13.03	28.25	12.02	-12.95	-3.18		29.05	.42	3	7.02	6.41			
67	129	196	42.68	-2.35	40.33	1.17	3.92	13.34	28.66	13.91	-11.60	-3.47		28.62	.42	3	7.04	6.42			
67	130	197	47.30	-1.53	45.77	2.62	3.80	13.44	29.07	12.56	-13.48	-3.76		28.19	.42	3	7.05	6.43			
67	131	198	53.53	-.74	52.79	1.05	3.67	13.75	29.47	14.43	-12.14	-4.04		27.75	.42	3	7.07	6.43			
67	132	199	58.36	.01	58.37	2.49	3.54	13.85	29.86	13.09	-13.96	-4.31		27.30	.42	3	7.08	6.44			
67	133	200	64.79	.71	65.50	.94	3.43	14.13	30.22	14.94	-12.11	-4.61	.04	26.84	.42	3	7.10	6.45			
67	134	201	69.82	.92	70.74	2.82	3.77	14.16	30.52	13.15	-13.71	-5.34	.12	26.37	.42	3	7.11	6.46			
67	135	202	76.44	.86	77.30	1.52	4.34	14.44	30.88	14.63	-12.31	-6.27	.14	25.89	.42	3	7.13	6.46			
67	136	203	81.67	.70	82.37	3.00	4.51	14.53	31.25	13.21	-14.16	-6.74	.15	25.41	.42	3	7.14	6.47			
67	137	204	88.49	.52	89.01	1.44	4.43	14.81	31.62	15.04	-12.83	-7.01	.16	24.91	.42	3	7.16	6.48			
67	138	205	93.91	.32	94.23	2.85	4.29	14.90	31.99	13.71	-14.70	-7.24	.16	24.41	.42	3	7.17	6.48			
67	139	206	100.91	.13	101.04	1.27	4.11	15.18	32.36	15.57	-13.40	-7.43	.17	23.90	.42	3	7.19	6.49			
67	140	207	106.52	-.06	106.46	2.65	3.92	15.27	32.72	14.28	-15.25	-7.61	.17	23.39	.42	3	7.20	6.50			
67	141	208	113.70	-.25	113.45	1.08	3.73	15.55	33.09	16.13	-13.97	-7.80	.17	22.86	.42	3	7.21	6.51			
67	142	209	119.49	-.43	119.06	2.46	3.54	15.64	33.46	14.83	-15.82	-7.97	.17	22.33	.42	3	7.23	6.51			
67	143	210	126.85	-.59	126.26	.88	3.33	15.91	33.82	16.69	-14.53	-8.13	.18	21.80	.42	3	7.24	6.52			
67	144	211	132.82	-.74	132.08	2.25	3.13	16.00	34.17	15.41	-16.37	-8.29	.18	21.25	.42	3	7.26	6.53			
67	145	212	140.34	-.88	139.46	.69	2.94	16.28	34.54	17.24	-15.09	-8.46	.18	20.70	.42	3	7.27	6.54			
67	146	213	146.49	-1.01	145.48	2.05	2.74	16.36	34.89	15.96	-16.92	-8.62	.18	20.14	.42	3	7.29	6.54			
67	147	214	154.18	-1.13	153.05	.50	2.55	16.63	35.24	17.78	-15.64	-8.79	.18	19.58	.42	3	7.30	6.55			
67	148	215	160.49	-1.23	159.26	1.86	2.36	16.72	35.60	16.50	-17.47	-8.95	.18	19.01	.42	3	7.31	6.56			
67	149	216	168.34	-1.32	167.02	.31	2.17	16.99	35.95	18.31	-16.19	-9.12	.18	18.44	.42	3	7.33	6.56			
67	150	217	174.82	-1.39	173.43	1.67	1.98	17.07	36.29	17.04	-18.00	-9.27	.18	17.85	.42	3	7.34	6.57			
67	151	218	182.83	-1.45	181.38	.13	1.79	17.34	36.63	18.85	-16.72	-9.43	.18	17.27	.42	3	7.36	6.58			
67	152	219	189.47	-1.50	187.97	1.48	1.61	17.42	36.97	17.57	-18.52	-9.59	.18	16.50	.40	3	7.37	6.59			
67	154	221	204.43	-1.56	202.87	1.30	1.25	17.76	37.65	18.09	-19.03	-9.92	.18	15.30	.40	3	7.40	6.60			
67	156	223	219.69	-1.56	218.13	1.12	.89	18.10	38.31	18.61	-19.54	-10.24	.18	14.07	.40	3	7.42	6.62			
67	158	225	235.25	-1.51	233.74	.94	.54	18.43	38.97	19.12	-20.03	-10.55	.18	12.82	.40	3	7.45	6.63			
67	160	227	251.10	-1.41	249.69	.76	.19	18.75	39.61	19.62	-20.51	-10.86	.18	11.56	.40	3	7.48	6.64			
67	162	229	267.22	-1.27	265.95	.60	-.12	19.08	40.26	20.10	-21.01	-11.19	.18	10.28	.40	3	7.51	6.66			
67	164	231	283.62	-1.07	282.55	.44	-.45	19.40	40.89	20.58	-21.48	-11.51	.18	8.97	.40	3	7.53	6.67			
67	166	233	300.29	-.83	299.46	.28	-.76	19.72	41.52	21.05	-21.95	-11.83	.18	7.66	.40	3	7.56	6.69			
67	168	235	317.22	-.54	316.68	.13	-1.07	20.03	42.13	21.52	-22.40	-12.14	.17	6.13	.38	3	7.59	6.70			
67	176	243	387.43	-1.00	386.43	.42	-.51	21.37	44.73	22.60	-23.37	-15.25		.51	.36	3	7.69	6.76			
67	178	245	405.58	-2.36	403.22	.35	-.64	21.65	45.29	22.96	-23.71	-15.78		-.87	.36	3	7.71	6.78			
67	180	247	423.95	-3.82	420.13	.29	-.77	21.94	45.85	23.31	-24.06	-16.22		-2.26	.36	3	7.74	6.79			
67	182	249	442.55	-5.37	437.18	.22	-.90	22.22	46.39	23.66	-24.39	-16.65		-3.65	.34	3	7.77	6.81			
67	184	251	461.36	-7.02	454.34	.16	-1.02	22.49	46.94	23.99	-26.51	-17.08		-5.02	.34	3	7.79	6.82			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
68	63	131	31.00	.48	31.48	14.67	31.78	-2.89	-7.11	-19.50	18.08	4.89	.19	21.00	.36	4	5.86	5.97			
68	64	132	22.62	.50	23.12	16.43	31.10	-2.44	-6.50	-20.79	15.51	4.94	.19	21.87	.36	4	5.88	5.98			
68	65	133	16.63	.54	17.17	14.02	30.46	-2.28	-5.87	-18.22	16.83	4.96	.19	22.69	.36	4	5.90	5.99			
68	66	134	8.86	.60	9.46	15.79	29.80	-1.82	-5.26	-19.52	14.06	4.99	.19	23.49	.36	4	5.92	5.99			
68	67	135	3.46	.67	4.13	13.40	29.18	-1.44	-4.19	-16.98	15.15	4.98	.18	24.26	.38	4	5.94	6.00			
68	68	136	-3.71	.76	-2.95	15.16	28.55	-.78	-3.15	-18.27	12.21	5.01	.18	25.00	.38	4	5.97	6.01			
68	69	137	-8.10	.86	-7.24	12.36	27.52	-.63	-2.54	-15.32	13.54	4.97	.18	25.72	.38	4	5.99	6.02			
68	70	138	-14.27	.96	-13.31	14.13	26.50	-.18	-1.93	-16.42	11.06	4.94	.17	26.40	.40	4	6.01	6.02			
68	71	139	-18.13	1.08	-17.05	11.81	25.94	-.03	-1.32	-13.73	12.40	4.88	.17	27.06	.40	4	6.03	6.03			
68	72	140	-23.76	1.19	-22.57	13.59	25.40	.41	-.73	-15.05	9.96	4.82	.16	27.69	.40	4	6.05	6.04			
68	73	141	-27.10	1.29	-25.81	11.31	24.90	.57	-.12	-12.62	11.31	4.72	.16	28.14	.36	3	6.07	6.04			
68	74	142	-32.21	1.37	-30.84	13.10	24.41	1.01	.47	-13.96	8.95	4.61	.14	28.82	.38	3	6.09	6.05			
68	75	143	-35.06	1.38	-33.68	10.91	24.01	1.18	1.09	-11.60	10.40	4.40	.13	29.35	.38	3	6.11	6.06			
68	76	144	-39.66	1.23	-38.43	12.82	23.73	1.64	1.73	-13.04	8.33	4.09	.09	29.85	.38	3	6.13	6.07			
68	77	145	-42.02	.68	-41.34	10.98	23.80	1.87	2.45	-10.97	9.82	3.40		30.32	.38	3	6.15	6.07			
68	78	146	-46.14	-.02	-46.16	12.88	23.87	2.29	3.02	-12.37	7.49	2.69		30.77	.38	3	6.17	6.08			
68	79	147	-48.04	-.76	-48.80	10.71	23.60	2.44	3.59	-10.05	8.87	2.24		31.27	.40	3	6.19	6.09			
68	80	148	-51.69	-1.54	-53.23	12.51	23.21	2.85	4.14	-11.41	6.58	2.06		31.67	.40	3	6.21	6.09			
68	81	149	-53.14	-2.37	-55.51	10.35	22.85	2.99	4.71	-9.11	7.96	1.85		32.05	.40	3	6.23	6.10			
68	82	150	-56.34	-3.24	-59.58	12.14	22.49	3.40	5.26	-10.49	3.80	1.66		32.40	.40	3	6.25	6.11	-57.90	-1.56	1.68
68	83	151	-57.35	-2.28	-59.63	8.12	20.26	3.54	5.83	-6.33	5.19	3.32		32.72	.40	3	6.27	6.11	-58.20	-.85	1.43
68	84	152	-60.11	-1.38	-61.49	9.92	18.05	3.95	6.40	-7.72	2.93	4.98		33.02	.40	3	6.29	6.12	-60.43	-.32	1.06
68	85	153	-60.71	-.53	-61.24	7.82	17.75	4.10	6.96	-5.47	4.32	4.71		33.30	.40	3	6.31	6.13	-60.25	.46	.99
68	86	154	-63.04	.26	-62.78	9.61	17.44	4.50	7.51	-6.84	2.12	4.47		33.55	.40	3	6.33	6.14	-62.40	.64	.38
68	87	155	-63.23	1.00	-62.23	7.53	17.14	4.62	8.01	-4.61	3.93	4.20		33.78	.40	3	6.35	6.14	-62.01	1.22	.22
68	88	156	-65.15	1.35	-63.80	9.64	17.17	4.93	8.41	-6.32	2.01	3.62	.11	33.99	.40	3	6.37	6.15	-63.69	1.46	.11
68	89	157	-64.96	1.40	-63.56	7.83	17.47	5.05	8.91	-4.50	3.45	2.82	.13	34.18	.40	3	6.38	6.16	-62.99	1.97	.57
68	90	158	-66.48	1.34	-65.14	9.65	17.48	5.42	9.42	-5.97	1.26	2.41	.15	34.34	.40	3	6.40	6.16	-64.91	1.57	.23
68	91	159	-65.90	1.24	-64.66	7.59	17.24	5.55	9.94	-3.79	2.62	2.14	.16	34.49	.40	3	6.42	6.17	-64.34	1.56	.32
68	92	160	-67.04	1.12	-65.92	9.33	16.92	5.92	10.46	-5.15	.41	1.95	.16	34.61	.40	3	6.44	6.18	-65.93	1.11	-.01
68	93	161	-66.10	1.00	-65.10	7.25	16.58	6.06	10.98	-2.94	1.74	1.77	.17	34.80	.42	3	6.46	6.18	-65.16	.94	-.06
68	94	162	-66.86	.88	-65.98	8.95	16.20	6.43	11.48	-4.26	-.46	1.64	.17	34.88	.42	3	6.47	6.19	-66.30	.56	-.32
68	95	163	-65.56	.77	-64.79	6.88	15.84	6.56	11.99	-2.05	.87	1.49	.17	34.95	.42	3	6.49	6.20	-65.13	.43	-.34
68	96	164	-65.97	.67	-65.30	8.58	15.46	6.94	12.50	-3.37	-1.32	1.35	.17	34.99	.42	3	6.51	6.21	-65.92	.05	-.62
68	97	165	-64.33	.58	-63.75	6.52	15.10	7.07	13.01	-1.18	-.01	1.20	.17	35.02	.42	3	6.53	6.21	-64.50	-.17	-.75
68	98	166	-64.38	.50	-63.88	8.20	14.72	7.43	13.50	-2.49	-2.18	1.08	.18	35.03	.42	3	6.55	6.22	-64.90	-.52	-1.02
68	99	167	-62.41	.44	-61.97	6.16	14.36	7.56	14.01	-.31	-.86	.92	.18	35.02	.42	3	6.56	6.23	-63.27	-.86	-1.30
68	100	168	-62.12	.39	-61.73	7.83	13.99	7.92	14.49	-1.61	-3.01	.80	.18	35.00	.42	3	6.58	6.23	-62.97	-.85	-1.24
68	101	169	-59.83	.35	-59.48	5.81	13.65	8.05	15.00	.53	-1.71	.63	.18	34.96	.42	3	6.60	6.24	-60.90	-1.07	-1.42
68	102	170	-59.22	.33	-58.89	7.48	13.29	8.41	15.49	-.77	-3.85	.50	.18	34.90	.42	3	6.61	6.25	-60.09	-.87	-1.20
68	103	171	-56.61	.33	-56.28	5.47	12.95	8.54	15.97	1.37	-2.54	.35	.18	34.82	.42	3	6.63	6.26	-57.70	-1.09	-1.42
68	104	172	-55.67	.34	-55.33	7.13	12.59	8.88	16.44	.08	-4.65	.22	.17	34.73	.42	3	6.65	6.26	-56.48	-.81	-1.15
68	105	173	-52.76	.36	-52.40	5.13	12.27	9.01	16.93	2.19	-3.34	.06	.17	34.62	.42	3	6.67	6.27	-53.42	-.66	-1.02
68	106	174	-51.52	.40	-51.12	6.79	11.92	9.35	17.40	.90	-5.44	-.08	.17	34.49	.42	3	6.68	6.28			
68	107	175	-48.32	.45	-47.87	4.82	11.61	9.48	17.88	2.99	-4.14	-.25	.17	34.35	.42	3	6.70	6.28			
68	108	176	-46.78	.51	-46.27	6.47	11.29	9.83	18.35	1.69	-6.22	-.40	.17	34.20	.42	3	6.72	6.29			
68	109	177	-43.28	.58	-42.70	4.50	10.97	9.94	18.82	3.78	-4.91	-.56	.17	34.03	.42	3	6.73	6.30			
68	110	178	-41.45	.67	-40.78	6.15	10.66	10.28	19.27	2.49	-6.97	-.71	.17	33.85	.42	3	6.75	6.30			
68	111	179	-37.68	.76	-36.92	4.21	10.36	10.40	19.74	4.55	-5.65	-.88	.16	33.65	.42	3	6.76	6.31			
68	112	180	-35.57	.85	-34.72	5.86	10.08	10.74	20.20	3.24	-7.71	-1.06	.16	33.44	.42	3	6.78	6.32			
68	113	181	-31.53	.95	-30.58	3.93	9.80	10.85	20.66	5.29	-6.38	-1.24	.16	33.21	.42	3	6.80	6.33			
68	114	182	-29.15	1.05	-28.10	5.59	9.53	11.20	21.12	3.98	-8.40	-1.43	.15	32.97	.42	3	6.81	6.33			
68	115	183	-24.85	1.12	-23.73	3.70	9.29	11.31	21.58	5.99	-7.06	-1.66	.14	32.72	.42	3	6.83	6.34			
68	116	184	-22.20	1.16	-21.04	5.38	9.08	11.66	22.05	4.66	-9.02	-1.90	.13	32.46	.42	3	6.85	6.35			
68	117	185	-17.65	1.11	-16.54	3.58	8.96	11.80	22.54	6.60	-7.53	-2.24	.10	32.18	.42	3	6.86	6.35			
68	118	186	-14.73	.80	-13.93	5.47	9.04	12.21	23.10	5.09	-9.21	-2.78		31.89	.42	3	6.88	6.36			
68	119	187	-9.94	.16	-9.78	3.92	9.39	12.34	23.60	6.88	-7.86	-3.63		31.59	.42	3	6.89	6.37			
68	120	188	-6.77	-.51	-7.28	5.58	9.49	12.65	24.01	5.55	-9.80	-4.29		31.28	.42	3	6.91	6.38			
68	121	189	-1.74	-1.21	-2.95	3.74	9.32	12.76	24.44	7.49	-8.45	-4.61		30.96	.42	3	6.92	6.38			
68	122	190	1.67	-1.95	-.28	5.40	9.14	13.07	24.86	6.15	-10.39	-4.86		30.62	.42	3	6.94	6.39			
68	123	191	6.94	-2.71	4.23	3.57	8.97	13.17	25.27	8.09	-9.03	-5.11		30.28	.42	3	6.95	6.40			
68	124	192	10.58	-3.51	7.07	5.23	8.80	13.48	25.68	6.75	-10.95	-5.35		29.92	.42	3	6.97	6.40			
68	125	193	16.08	-4.35	11.73	3.41	8.64	13.58	26.10	8.66	-9.61	-5.61		29.56	.42	3	6.99	6.41			
68	126	194	19.95	-5.21	14.74	5.06	8.47	13.89	26.50	7.33	-13.37	-5.86		29.18	.42	3	7.00	6.42			
68	127	195	25.67	-4.26	21.41	1.40	6.46	13.98	26.92	11.08	-12.02	-4.26		28.79	.42	3	7.02	6.43			
68	128	196	29.77	-3.35	26.42	3.06	4.47	14.29	27.33	9.74	-13.90	-2.67		28.39	.42	3	7.03	6.43			
68	129	197	35.69	-2.48	33.21	1.28	4.34	14.40	27.75	11.62	-12.56	-2.97		27.99	.42	3	7.05	6.44			
68	130	198	40.01	-1.65	38.36	2.93	4.21	14.70	28.14	10.29	-14.43	-3.24		27.57	.42	3	7.06	6.45			
68	131	199	46.15	-.87	45.28	1.15	4.08	14.79	28.55	12.17	-13.08	-3.52		27.15	.42	3	7.08	6.46			
68	132	200	50.68	-.12	50.56	2.79	3.94	15.10	28.94	10.84	-14.93	-3.79		26.71	.42	3	7.09	6.46			
68	133	201	57.01	.58	57.59	1.04	3.83	15.19	29.32	12.69	-13.15	-4.09		26.27	.42	3	7.11	6.47			
68	134	202	61.76	.91	62.67	2.99	4.03	15.36	29.52	11.03	-14.63	-4.68	.11	25.82	.42	3	7.12	6.48			
68	135	203	68.29	.88	69.17	1.57	4.57	15.42	29.86	12.41	-13.21	-5.59	.13	25.36	.42	3	7.14	6.48			
68	136	204	73.23	.74	73.97	3.26	4.84	15.70	30.22	10.96	-15.04	-6.07	.15	24.89	.42	3	7.15	6.49			
68	137	205	79.95	.57	80.52	1.53	4.79	15.78	30.59	12.77	-13.72	-6.35	.16	24.41	.42	3	7.16	6.50			
68	138	206	85.09	.38	85.47	3.12	4.64	16.06	30.95	11.46	-15.57	-6.57	.16	23.93	.42	3	7.18	6.51			
68	139	207	92.00	.18	92.18	1.36	4.48	16.15	31.33	13.31	-14.28	-6.77	.17	23.43	.42	3	7.19	6.51			
68	140	208	97.33	-.01	97.32	2.93	4.29	16.42	31.69	12.02	-16.13	-6.95	.17	22.93	.42	3	7.21	6.52			
68	141	209	104.42	-.19	104.23	1.16	4.09	16.51	32.06	13.87	-14.84	-7.13	.17	22.42	.42	3	7.22	6.53			
68	142	210	109.94	-.36	109.58	2.72	3.89	16.78	32.42	12.60	-16.68	-7.28	.17	21.91	.42	3	7.24	6.53			
68	143	211	117.20	-.53	116.67	.97	3.70	16.87	32.79	14.43	-15.41	-7.47	.18	21.39	.42	3	7.25	6.54			
68	144	212	122.90	-.68	122.22	2.52	3.50	17.14	33.15	13.16	-17.24	-7.62	.18	20.86	.42	3	7.26	6.55			
68	145	213	130.34	-.82	129.52	.77	3.30	17.22	33.51	15.00	-15.96	-7.79	.18	20.32	.42	3	7.28	6.56			
68	146	214	136.21	-.94	135.27	2.32	3.10	17.50	33.86	13.73	-17.78	-7.94	.18	19.78	.42	3	7.29	6.56			
68	147	215	143.82	-1.06	142.76	.58	2.90	17.58	34.22	15.55	-16.51	-8.11	.18	19.06	.40	3	7.31	6.57			
68	148	216	149.87	-1.16	148.71	2.12	2.70	17.84	34.56	14.28	-18.32	-8.27	.18	18.50	.40	3	7.32	6.58			
68	149	217	157.63	-1.24	156.39	.39	2.51	17.93	34.91	16.10	-17.04	-8.43	.18	17.94	.40	3	7.34	6.59			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SADDLE DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
68	150	218	163.85	-1.32	162.53	1.93	2.32	18.19	35.26	14.83	-18.85	-8.59	.18	17.37	.40	3	7.35	6.59			
68	151	219	171.77	-1.38	170.39	.21	2.14	18.28	35.61	16.63	-17.58	-8.76	.18	16.80	.40	3	7.36	6.60			
68	152	220	178.16	-1.43	176.73	1.73	1.95	18.53	35.95	15.37	-19.37	-8.91	.18	16.22	.40	3	7.38	6.61			
68	153	221	186.24	-1.46	184.78	.02	1.76	18.61	36.29	17.17	-18.10	-9.07	.18	15.63	.40	3	7.39	6.61			
68	154	222	192.78	-1.48	191.30	1.55	1.58	18.87	36.62	15.91	-19.88	-9.22	.18	15.04	.40	3	7.40	6.62			
68	156	224	207.71	-1.48	206.23	1.37	1.21	19.20	37.29	16.43	-20.38	-9.54	.18	13.84	.40	3	7.43	6.64			
68	158	226	222.94	-1.44	221.50	1.19	.87	19.52	37.95	16.94	-20.88	-9.86	.18	12.62	.40	3	7.46	6.65			
68	160	228	238.46	-1.34	237.12	1.02	.53	19.85	38.61	17.44	-21.37	-10.18	.18	11.37	.40	3	7.49	6.66			
68	162	230	254.27	-1.19	253.08	.85	.19	20.16	39.25	17.95	-21.84	-10.49	.18	10.11	.40	3	7.51	6.68			
68	164	232	270.36	-.99	269.37	.68	-.15	20.48	39.87	18.44	-22.30	-10.80	.18	8.83	.40	3	7.54	6.69			
68	166	234	286.71	-.75	285.96	.52	-.45	20.79	40.51	18.91	-22.78	-11.13	.18	7.34	.38	3	7.57	6.71			
68	168	236	303.34	-.46	302.88	.36	-.77	21.10	41.12	19.40	-23.22	-11.44	.17	6.04	.38	3	7.59	6.72			
68	170	238	320.22	-.14	320.08	.21	-1.06	21.40	41.74	19.86	-23.66	-11.77	.17	4.34	.28	4	7.62	6.74			
68	172	240	337.36	.19	337.55	.08	-1.33	21.71	42.36	20.30	-24.07	-12.12	.15	3.55	.26	4	7.64	6.75			
68	174	242	354.74	.15	354.89	.29	-1.20	22.18	43.21	20.44	-23.89	-12.87		2.89	.24	4	7.67	6.77			
68	176	244	372.37	-1.11	371.26	.64	-.22	22.46	43.83	20.57	-24.24	-14.68		2.31	.22	4	7.70	6.78			
68	178	246	390.23	-2.47	387.76	.57	-.36	22.75	44.40	20.93	-24.58	-15.18		1.81	.20	4	7.72	6.80			
68	180	248	408.32	-3.92	404.40	.50	-.50	23.03	44.96	21.29	-24.92	-15.61		1.41	.18	4	7.75	6.81			
68	182	250	426.64	-5.47	421.17	.43	-.63	23.30	45.51	21.65	-25.25	-16.04		1.04	.16	4	7.77	6.82			
68	184	252	445.18	-7.12	438.06	.36	-.75	23.57	46.06	21.98	-27.36	-16.47		.75	.16	4	7.80	6.84			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SADDLE DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
69	70	139	-4.28	.96	-3.32	14.50	27.54	-2.70	-2.88	-15.50	13.73	5.28	.17	24.32	.38	4	6.02	6.05			
69	71	140	-8.59	1.07	-7.52	12.27	26.77	-2.25	-2.27	-12.61	15.05	5.21	.17	25.00	.38	4	6.04	6.05			
69	72	141	-14.37	1.18	-13.19	13.74	26.01	-2.09	-1.68	-13.93	12.62	5.16	.16	25.65	.38	4	6.06	6.06			
69	73	142	-18.16	1.28	-16.88	11.76	25.50	-1.64	-1.07	-11.51	13.96	5.06	.15	26.28	.40	4	6.08	6.07			
69	74	143	-23.42	1.34	-22.08	13.27	25.03	-1.47	-.47	-12.85	11.60	4.94	.14	26.87	.40	4	6.10	6.08			
69	75	144	-26.70	1.32	-25.38	11.37	24.64	-1.01	.17	-10.50	13.05	4.72	.12	27.32	.36	3	6.12	6.08			
69	76	145	-31.46	1.08	-30.38	13.06	24.44	-.77	.88	-11.99	10.96	4.32	.06	27.84	.36	3	6.14	6.09			
69	77	146	-34.25	.46	-33.79	11.49	24.55	-.27	1.61	-9.84	12.37	3.58		28.33	.36	3	6.16	6.10			
69	78	147	-38.52	-.23	-38.75	13.03	24.52	-.12	2.17	-11.21	10.05	2.90		28.92	.38	3	6.18	6.10			
69	79	148	-40.85	-.97	-41.82	11.14	24.17	.31	2.75	-8.91	11.41	2.51		29.37	.38	3	6.20	6.11			
69	80	149	-44.65	-1.75	-46.40	12.65	23.79	.45	3.30	-10.28	9.11	2.33		29.79	.38	3	6.22	6.12			
69	81	150	-46.52	-2.57	-49.09	10.77	23.42	.87	3.86	-7.99	10.49	2.14		30.19	.38	3	6.24	6.12			
69	82	151	-49.86	-3.44	-53.30	12.28	23.05	1.01	4.41	-9.36	6.33	1.95		30.56	.38	3	6.26	6.13	-50.90	-1.04	2.40
69	83	152	-51.29	-2.48	-53.77	8.54	20.82	1.43	4.97	-5.22	7.72	3.62		30.91	.38	3	6.28	6.14	-51.93	-.64	1.84
69	84	153	-54.19	-1.58	-55.77	10.07	18.61	1.57	5.53	-6.60	5.47	5.28		31.32	.40	3	6.30	6.15	-53.90	.29	1.87
69	85	154	-55.20	-.73	-55.93	8.23	18.30	1.99	6.08	-4.36	6.84	5.02		31.63	.40	3	6.32	6.15	-54.49	.71	1.44
69	86	155	-57.68	.06	-57.62	9.76	17.99	2.14	6.64	-5.74	4.61	4.78		31.91	.40	3	6.34	6.16	-56.31	1.37	1.31
69	87	156	-58.28	.79	-57.49	7.94	17.70	2.55	7.17	-3.52	6.31	4.51		32.17	.40	3	6.36	6.17	-56.69	1.59	.80
69	88	157	-60.34	1.27	-59.07	9.65	17.59	2.55	7.49	-5.10	4.49	4.07	.10	32.40	.40	3	6.37	6.17	-58.19	2.15	.88
69	89	158	-60.54	1.37	-59.17	8.18	17.83	2.90	7.94	-3.36	5.97	3.30	.13	32.61	.40	3	6.39	6.18	-58.31	2.23	.86
69	90	159	-62.20	1.34	-60.86	9.77	17.94	3.02	8.43	-4.89	3.80	2.88	.14	32.80	.40	3	6.41	6.19	-60.14	2.06	.72
69	91	160	-62.02	1.25	-60.77	7.98	17.74	3.40	8.94	-2.75	5.15	2.61	.15	32.97	.40	3	6.43	6.19	-60.13	1.89	.64
69	92	161	-63.30	1.14	-62.16	9.46	17.44	3.53	9.46	-4.12	2.94	2.43	.16	33.12	.40	3	6.45	6.20	-61.64	1.66	.52
69	93	162	-62.74	1.02	-61.72	7.63	17.09	3.91	9.97	-1.92	4.26	2.26	.16	33.25	.40	3	6.47	6.21	-61.60	1.14	.12
69	94	163	-63.64	.91	-62.73	9.09	16.72	4.04	10.47	-3.24	2.07	2.13	.17	33.36	.40	3	6.48	6.22	-62.72	.92	.01
69	95	164	-62.73	.80	-61.93	7.27	16.35	4.43	10.99	-1.06	3.37	1.97	.17	33.45	.40	3	6.50	6.22	-61.96	.77	-.03
69	96	165	-63.27	.70	-62.57	8.71	15.98	4.56	11.49	-2.37	1.18	1.85	.17	33.51	.40	3	6.52	6.23	-62.94	.33	-.37
69	97	166	-62.00	.61	-61.39	6.89	15.60	4.93	11.99	-.19	2.49	1.71	.17	33.56	.40	3	6.54	6.24	-61.87	.13	-.48
69	98	167	-62.19	.53	-61.66	8.33	15.23	5.06	12.50	-1.50	.31	1.57	.17	33.60	.40	3	6.55	6.24	-62.52	-.33	-.86
69	99	168	-60.59	.47	-60.12	6.53	14.87	5.43	13.00	.66	1.62	1.43	.17	33.61	.40	3	6.57	6.25	-61.27	-.68	-1.15
69	100	169	-60.44	.43	-60.01	7.97	14.50	5.56	13.48	-.64	-.53	1.31	.18	33.60	.40	3	6.59	6.26	-61.25	-.81	-1.24
69	101	170	-58.51	.39	-58.12	6.18	14.15	5.93	13.98	1.51	.76	1.16	.18	33.68	.42	3	6.61	6.26	-59.77	-1.26	-1.65
69	102	171	-58.02	.37	-57.65	7.60	13.78	6.05	14.46	.21	-1.37	1.03	.18	33.64	.42	3	6.62	6.27	-59.19	-1.17	-1.54
69	103	172	-55.78	.37	-55.41	5.83	13.44	6.42	14.95	2.34	-.07	.88	.17	33.59	.42	3	6.64	6.28	-57.37	-1.59	-1.96
69	104	173	-54.97	.38	-54.59	7.25	13.08	6.54	15.42	1.04	-2.19	.75	.17	33.52	.42	3	6.66	6.29	-56.22	-1.25	-1.63
69	105	174	-52.42	.40	-52.02	5.49	12.76	6.90	15.91	3.15	-.89	.59	.17	33.44	.42	3	6.67	6.29	-53.87	-1.45	-1.85
69	106	175	-51.30	.44	-50.86	6.91	12.41	7.02	16.38	1.85	-2.99	.46	.17	33.33	.42	3	6.69	6.30	-52.28	-.98	-1.42
69	107	176	-48.45	.49	-47.96	5.17	12.09	7.38	16.86	3.95	-1.69	.30	.17	33.22	.42	3	6.71	6.31	-49.34	-.89	-1.38
69	108	177	-47.03	.55	-46.48	6.59	11.76	7.50	17.32	2.65	-3.78	.15	.17	33.08	.42	3	6.72	6.31			
69	109	178	-43.89	.63	-43.26	4.86	11.44	7.85	17.79	4.73	-2.47	-.00	.17	32.94	.42	3	6.74	6.32			
69	110	179	-42.18	.71	-41.47	6.28	11.13	7.97	18.25	3.43	-4.54	-.16	.17	32.78	.42	3	6.76	6.33			
69	111	180	-38.76	.80	-37.96	4.56	10.84	8.32	18.72	5.49	-3.24	-.34	.16	32.60	.42	3	6.77	6.33			
69	112	181	-36.76	.89	-35.87	5.98	10.54	8.44	19.18	4.19	-5.29	-.50	.16	32.41	.42	3	6.79	6.34			
69	113	182	-33.07	.99	-32.08	4.28	10.26	8.79	19.65	6.22	-3.98	-.69	.15	32.21	.42	3	6.81	6.35			
69	114	183	-30.80	1.07	-29.73	5.72	10.00	8.92	20.11	4.91	-6.00	-.89	.15	31.99	.42	3	6.82	6.36			
69	115	184	-26.83	1.14	-25.69	4.04	9.75	9.25	20.57	6.93	-4.66	-1.10	.14	31.76	.42	3	6.84	6.36			
69	116	185	-24.29	1.16	-23.13	5.51	9.55	9.39	21.04	5.60	-6.60	-1.36	.12	31.51	.42	3	6.85	6.37			
69	117	186	-20.08	1.06	-19.02	3.96	9.47	9.78	21.57	7.51	-5.09	-1.75	.09	31.26	.42	3	6.87	6.38			
69	118	187	-17.27	.61	-16.66	5.71	9.67	10.01	22.23	5.95	-6.89	-2.42		30.99	.42	3	6.88	6.38			
69	119	188	-12.81	-.02	-12.83	4.24	9.95	10.35	22.68	7.86	-5.55	-3.23		30.71	.42	3	6.90	6.39			
69	120	189	-9.75	-.69	-10.44	5.68	9.92	10.45	23.10	6.53	-7.49	-3.85		30.42	.42	3	6.92	6.40			
69	121	190	-5.04	-1.39	-6.43	4.06	9.75	10.77	23.53	8.46	-6.15	-4.13		30.11	.42	3	6.93	6.41			
69	122	191	-1.74	-2.12	-3.86	5.50	9.56	10.87	23.94	7.13	-8.08	-4.37		29.80	.42	3	6.95	6.41			
69	123	192	3.21	-2.88	.33	3.89	9.39	11.19	24.35	9.06	-6.74	-4.62		29.47	.42	3	6.96	6.42			
69	124	193	6.75	-3.68	3.07	5.33	9.21	11.29	24.77	7.72	-8.66	-4.86		29.13	.42	3	6.98	6.43			
69	125	194	11.92	-4.51	7.41	3.73	9.06	11.61	25.19	9.62	-7.34	-5.12		28.79	.42	3	6.99	6.43			
69	126	195	15.70	-5.37	10.33	5.15	8.88	11.70	25.59	8.30	-11.08	-5.35		28.43	.42	3	7.01	6.44			
69	127	196	21.10	-4.42	16.68	1.72	6.88	12.02	26.01	12.03	-9.74	-3.77		28.06	.42	3	7.02	6.45			
69	128	197	25.10	-3.51	21.59	3.16	4.88	12.12	26.41	10.70	-11.62	-2.17		27.68	.42	3	7.04	6.45			
69	129	198	30.72	-2.65	28.07	1.59	4.75	12.43	26.83	12.58	-10.29	-2.46		27.29	.42	3	7.05	6.46			
69	130	199	34.94	-1.82	33.12	3.02	4.61	12.53	27.23	11.25	-12.16	-2.73		26.89	.42	3	7.07	6.47			
69	131	200	40.76	-1.04	39.72	1.47	4.49	12.85	27.65	13.10	-10.84	-3.03		26.48	.42	3	7.08	6.48			
69	132	201	45.20	-.30	44.90	2.89	4.36	12.94	28.04	11.78	-12.69	-3.29		26.06	.42	3	7.10	6.48			
69	133	202	51.23	.40	51.63	1.34	4.24	13.25	28.44	13.62	-11.04	-3.58		25.64	.42	3	7.11	6.49			
69	134	203	55.88	.88	56.76	2.95	4.29	13.20	28.56	12.12	-12.40	-4.03	.10	25.20	.42	3	7.13	6.50			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
69	135	204	62.11	.90	63.01	1.82	4.77	13.45	28.87	13.40	-10.96	-4.91	.13	24.76	.42	3	7.14	6.50			
69	136	205	66.96	.78	67.74	3.34	5.16	13.52	29.22	11.88	-12.78	-5.43	.14	24.31	.42	3	7.16	6.51			
69	137	206	73.39	.62	74.01	1.81	5.14	13.80	29.58	13.67	-11.46	-5.71	.15	23.84	.42	3	7.17	6.52			
69	138	207	78.44	.44	78.88	3.20	5.01	13.88	29.94	12.36	-13.30	-5.92	.16	23.38	.42	3	7.19	6.53			
69	139	208	85.06	.25	85.31	1.64	4.84	14.16	30.31	14.20	-12.01	-6.12	.16	22.90	.42	3	7.20	6.53			
69	140	209	90.30	.06	90.36	3.01	4.66	14.25	30.68	12.90	-13.87	-6.30	.17	22.41	.42	3	7.22	6.54			
69	141	210	97.10	-.12	96.98	1.45	4.47	14.53	31.05	14.74	-12.59	-6.48	.17	21.76	.40	3	7.23	6.55			
69	142	211	102.53	-.29	102.24	2.81	4.26	14.62	31.41	13.47	-14.43	-6.64	.17	21.26	.40	3	7.24	6.56			
69	143	212	109.51	-.45	109.06	1.25	4.07	14.90	31.77	15.30	-13.16	-6.81	.17	20.75	.40	3	7.26	6.56			
69	144	213	115.12	-.60	114.52	2.61	3.86	14.99	32.14	14.03	-15.00	-6.97	.18	20.24	.40	3	7.27	6.57			
69	145	214	122.28	-.73	121.55	1.05	3.66	15.26	32.49	15.87	-13.72	-7.13	.18	19.71	.40	3	7.29	6.58			
69	146	215	128.07	-.86	127.21	2.41	3.46	15.35	32.85	14.59	-15.55	-7.29	.18	19.18	.40	3	7.30	6.58			
69	147	216	135.40	-.97	134.43	.85	3.26	15.62	33.20	16.41	-14.28	-7.45	.18	18.65	.40	3	7.31	6.59			
69	148	217	141.36	-1.07	140.29	2.21	3.06	15.71	33.55	15.14	-16.10	-7.61	.18	18.11	.40	3	7.33	6.60			
69	149	218	148.86	-1.16	147.70	.66	2.87	15.97	33.90	16.95	-14.83	-7.78	.18	17.56	.40	3	7.34	6.61			
69	150	219	154.99	-1.23	153.76	2.01	2.68	16.06	34.25	15.69	-16.64	-7.93	.18	17.00	.40	3	7.36	6.61			
69	151	220	162.65	-1.29	161.36	.47	2.48	16.33	34.60	17.49	-15.37	-8.09	.18	16.44	.40	3	7.37	6.62			
69	152	221	168.95	-1.34	167.61	1.82	2.30	16.41	34.94	16.22	-17.17	-8.25	.18	15.87	.40	3	7.38	6.63			
69	153	222	176.76	-1.37	175.39	.30	2.11	16.68	35.29	18.01	-15.91	-8.41	.18	15.30	.40	3	7.40	6.63			
69	154	223	183.23	-1.39	181.84	1.63	1.92	16.75	35.61	16.76	-17.68	-8.56	.18	14.72	.40	3	7.41	6.64			
69	155	224	191.20	-1.40	189.80	.11	1.74	17.01	35.95	18.53	-16.43	-8.72	.18	14.13	.40	3	7.42	6.65			
69	156	225	197.82	-1.39	196.43	1.44	1.55	17.09	36.28	17.28	-18.19	-8.87	.18	13.54	.40	3	7.44	6.66			
69	158	227	212.71	-1.34	211.37	1.27	1.20	17.43	36.95	17.79	-18.70	-9.19	.18	12.35	.40	3	7.47	6.67			
69	160	229	227.90	-1.25	226.65	1.09	.86	17.76	37.61	18.28	-19.20	-9.51	.18	11.13	.40	3	7.49	6.68			
69	162	231	243.38	-1.10	242.28	.92	.52	18.09	38.26	18.78	-19.69	-9.83	.18	9.89	.40	3	7.52	6.70			
69	164	233	259.15	-.90	258.25	.75	.18	18.40	38.88	19.28	-20.16	-10.13	.18	8.44	.38	3	7.55	6.71			
69	166	235	275.19	-.66	274.53	.59	-.14	18.72	39.51	19.76	-20.63	-10.45	.18	7.17	.38	3	7.57	6.73			
69	168	237	291.50	-.38	291.12	.43	-.45	19.04	40.14	20.22	-21.10	-10.77	.17	5.89	.38	3	7.60	6.74			
69	170	239	308.07	-.06	308.01	.29	-.75	19.36	40.76	20.68	-21.55	-11.10	.16	4.38	.28	4	7.62	6.76			
69	172	241	324.90	.26	325.16	.16	-1.01	19.68	41.39	21.12	-21.95	-11.46	.15	3.63	.26	4	7.65	6.77			
69	174	243	341.98	-0.	341.98	.54	-.68	20.20	42.38	21.13	-21.85	-12.42		2.98	.24	4	7.68	6.79			
69	176	245	359.31	-1.26	358.05	.71	.08	20.50	42.96	21.44	-22.21	-14.16		2.41	.22	4	7.70	6.80			
69	178	247	376.88	-2.61	374.27	.63	-.07	20.78	43.53	21.81	-22.55	-14.59		1.92	.20	4	7.73	6.81			
69	180	249	394.68	-4.06	390.62	.56	-.21	21.07	44.09	22.16	-22.90	-15.02		1.50	.18	4	7.75	6.83			
69	182	251	412.71	-5.61	407.10	.49	-.34	21.35	44.65	22.50	-23.25	-15.46		1.14	.18	4	7.78	6.84			
69	184	253	430.97	-7.25	423.72	.42	-.47	21.63	45.20	22.85	-25.36	-15.88		.84	.16	4	7.80	6.86			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
70	66	136	30.55	.60	31.15	16.38	31.03	-2.75	-7.11	-21.02	15.83	5.60	.19	19.20	.34	4	5.94	6.04			
70	67	137	24.53	.67	25.20	14.02	30.41	-2.59	-6.49	-18.50	17.12	5.60	.18	19.98	.34	4	5.96	6.05			
70	68	138	16.76	.76	17.52	15.76	29.77	-2.15	-5.90	-19.78	14.41	5.64	.18	20.75	.36	4	5.99	6.06			
70	69	139	11.32	.86	12.18	13.41	29.17	-1.78	-4.85	-17.28	15.50	5.62	.18	21.50	.36	4	6.01	6.07			
70	70	140	4.13	.97	5.10	15.16	28.57	-1.13	-3.83	-18.57	12.62	5.63	.17	22.22	.36	4	6.03	6.07			
70	71	141	-.33	1.07	.74	12.42	27.58	-.97	-3.22	-15.68	13.93	5.56	.17	22.92	.36	4	6.05	6.08			
70	72	142	-6.55	1.18	-5.37	14.18	26.61	-.53	-2.62	-16.78	11.51	5.52	.16	23.58	.36	4	6.07	6.09			
70	73	143	-10.49	1.26	-9.23	11.93	26.11	-.36	-2.00	-14.15	12.85	5.40	.15	24.22	.38	4	6.09	6.09			
70	74	144	-16.17	1.30	-14.87	13.72	25.64	.08	-1.40	-15.47	10.52	5.28	.13	24.83	.38	4	6.11	6.10			
70	75	145	-19.61	1.22	-18.39	11.58	25.31	.29	-.71	-13.15	11.98	5.00	.10	25.42	.40	4	6.13	6.11			
70	76	146	-24.79	.83	-23.96	13.64	25.23	.87	.10	-14.68	9.83	4.46		25.99	.40	4	6.15	6.11			
70	77	147	-27.73	.19	-27.54	11.66	25.30	1.04	.77	-12.38	11.21	3.72		26.44	.36	3	6.17	6.12			
70	78	148	-32.42	-.50	-32.92	13.45	25.11	1.45	1.34	-13.75	8.90	3.09		26.93	.36	3	6.19	6.13			
70	79	149	-34.89	-1.23	-36.12	11.28	24.72	1.59	1.90	-11.43	10.28	2.80		27.39	.36	3	6.21	6.13			
70	80	150	-39.10	-2.01	-41.11	13.06	24.34	2.00	2.45	-12.80	7.98	2.62		27.83	.36	3	6.23	6.14			
70	81	151	-41.12	-2.83	-43.95	10.91	23.97	2.14	3.01	-10.51	9.35	2.42		28.24	.36	3	6.25	6.15			
70	82	152	-44.86	-3.69	-48.55	12.68	23.59	2.54	3.55	-11.86	5.22	2.26		28.76	.38	3	6.27	6.16			
70	83	153	-46.44	-2.73	-49.17	8.69	21.37	2.69	4.11	-7.73	6.60	3.92		29.14	.38	3	6.29	6.16	-47.30	-.86	1.87
70	84	154	-49.74	-1.83	-51.57	10.47	19.16	3.09	4.66	-9.10	4.37	5.59		29.49	.38	3	6.31	6.17	-50.01	-.27	1.56
70	85	155	-50.89	-.99	-51.88	8.38	18.85	3.23	5.22	-6.86	5.74	5.33		29.81	.38	3	6.33	6.18	-50.42	.47	1.46
70	86	156	-53.76	-.20	-53.96	10.15	18.53	3.63	5.76	-8.22	3.52	5.10		30.11	.38	3	6.35	6.18	-53.07	.69	.89
70	87	157	-54.50	.53	-53.97	8.07	18.23	3.77	6.32	-6.00	5.09	4.84		30.39	.38	3	6.36	6.19	-53.21	1.29	.76
70	88	158	-56.96	1.15	-55.81	9.91	17.99	4.04	6.58	-7.43	3.36	4.54	.08	30.65	.38	3	6.38	6.20	-55.31	1.65	.50
70	89	159	-57.30	1.33	-55.97	8.23	18.14	4.09	6.99	-5.68	4.90	3.84	.12	30.98	.40	3	6.40	6.20	-55.14	2.16	.83
70	90	160	-59.35	1.33	-58.02	10.12	18.35	4.44	7.46	-7.34	2.75	3.36	.14	31.20	.40	3	6.42	6.21	-57.33	2.02	.69
70	91	161	-59.30	1.26	-58.04	8.10	18.21	4.56	7.96	-5.24	4.12	3.09	.15	31.39	.40	3	6.44	6.22	-57.14	2.16	.90
70	92	162	-60.96	1.16	-59.80	9.83	17.93	4.93	8.46	-6.61	1.92	2.91	.16	31.57	.40	3	6.46	6.22	-59.30	1.66	.50
70	93	163	-60.54	1.05	-59.49	7.76	17.59	5.06	8.97	-4.42	3.25	2.75	.16	31.72	.40	3	6.47	6.23	-59.02	1.52	.47
70	94	164	-61.82	.94	-60.88	9.46	17.23	5.43	9.48	-5.75	1.05	2.61	.17	31.85	.40	3	6.49	6.24	-60.86	.96	.02
70	95	165	-61.04	.84	-60.20	7.40	16.86	5.56	9.98	-3.55	2.37	2.47	.17	31.97	.40	3	6.51	6.25	-60.18	.86	.02
70	96	166	-61.95	.74	-61.21	9.08	16.48	5.93	10.48	-4.86	.18	2.35	.17	32.06	.40	3	6.53	6.25	-61.61	.34	-.40
70	97	167	-60.82	.66	-60.16	7.03	16.10	6.06	10.99	-2.68	1.50	2.21	.17	32.14	.40	3	6.54	6.26	-60.57	.25	-.41
70	98	168	-61.37	.58	-60.79	8.70	15.73	6.42	11.48	-3.98	-.67	2.09	.17	32.19	.40	3	6.56	6.27	-61.55	-.18	-.76
70	99	169	-59.90	.52	-59.38	6.66	15.37	6.55	11.99	-1.82	.63	1.95	.17	32.23	.40	3	6.58	6.27	-60.34	-.44	-.96
70	100	170	-60.10	.48	-59.62	8.32	14.98	6.90	12.46	-3.10	-1.50	1.84	.17	32.25	.40	3	6.60	6.28	-60.74	-.64	-1.12
70	101	171	-58.30	.45	-57.85	6.30	14.62	7.03	12.95	-.95	-.20	1.70	.17	32.25	.40	3	6.61	6.29	-59.29	-.99	-1.44
70	102	172	-58.18	.43	-57.75	7.96	14.27	7.39	13.45	-2.25	-2.34	1.56	.17	32.24	.40	3	6.63	6.29	-59.24	-1.06	-1.49
70	103	173	-56.06	.43	-55.63	5.96	13.92	7.51	13.93	-.11	-1.04	1.42	.17	32.20	.40	3	6.65	6.30	-57.54	-1.48	-1.91
70	104	174	-55.60	.44	-55.16	7.60	13.56	7.86	14.40	-1.40	-3.14	1.30	.17	32.15	.40	3	6.67	6.31	-56.93	-1.33	-1.77
70	105	175	-53.18	.46	-52.72	5.62	13.23	7.99	14.90	.70	-1.86	1.13	.17	32.09	.40	3	6.68	6.31	-54.68	-1.50	-1.96
70	106	176	-52.41	.50	-51.91	7.27	12.89	8.34	15.36	-.58	-3.95	1.00	.17	32.01	.40	3	6.70	6.32	-53.48	-1.07	-1.57
70	107	177	-49.68	.55	-49.13	5.30	12.56	8.46	15.84	1.52	-2.65	.85	.17	31.91	.40	3	6.72	6.33	-50.97	-1.29	-1.84
70	108	178	-48.60	.61	-47.99	6.93	12.23	8.80	16.30	.23	-4.72	.71	.17	31.80	.40	3	6.73	6.34	-49.47	-.87	-1.48
70	109	179	-45.58	.68	-44.90	4.98	11.91	8.92	16.78	2.31	-3.43	.54	.17	31.67	.40	3	6.75	6.34			
70	110	180	-44.21	.76	-43.45	6.62	11.60	9.27	17.24	1.02	-5.49	.39	.16	31.53	.40	3	6.76	6.35			
70	111	181	-40.90	.85	-40.05	4.68	11.29	9.38	17.70	3.09	-4.18	.23	.16	31.37	.40	3	6.78	6.36			
70	112	182	-39.24	.94	-38.30	6.32	11.00	9.72	18.16	1.79	-6.22	.06	.16	31.20	.40	3	6.80	6.36			
70	113	183	-35.66	1.03	-34.63	4.40	10.72	9.84	18.63	3.84	-4.91	-.13	.15	31.02	.40	3	6.81	6.37			
70	114	184	-33.72	1.10	-32.62	6.05	10.46	10.19	19.10	2.53	-6.92	-.33	.14	30.82	.40	3	6.83	6.38			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
70	115	185	-29.88	1.15	-28.73	4.18	10.24	10.32	19.58	4.53	-5.59	-.57	.13	30.61	.40	3	6.85	6.38			
70	116	186	-27.66	1.13	-26.53	5.87	10.05	10.68	20.08	3.20	-7.51	-.85	.11	30.50	.42	3	6.86	6.39			
70	117	187	-23.56	.94	-22.62	4.16	10.04	10.89	20.67	5.09	-5.96	-1.32	.07	30.27	.42	3	6.88	6.40			
70	118	188	-21.08	.38	-20.70	6.15	10.31	11.32	21.35	3.60	-7.87	-2.09		30.02	.42	3	6.89	6.41			
70	119	189	-16.72	-.25	-16.97	4.35	10.50	11.43	21.78	5.56	-6.53	-2.86		29.76	.42	3	6.91	6.41			
70	120	190	-13.98	-.91	-14.89	6.00	10.34	11.74	22.19	4.24	-8.46	-3.38		29.49	.42	3	6.92	6.42			
70	121	191	-9.38	-1.61	-10.99	4.17	10.17	11.85	22.62	6.17	-7.13	-3.64		29.20	.42	3	6.94	6.43			
70	122	192	-6.39	-2.34	-8.73	5.81	9.98	12.16	23.03	4.85	-9.05	-3.88		28.91	.42	3	6.95	6.43			
70	123	193	-1.55	-3.10	-4.65	3.99	9.80	12.26	23.45	6.77	-7.72	-4.13		28.60	.42	3	6.97	6.44			
70	124	194	1.68	-3.89	-2.21	5.63	9.62	12.57	23.86	5.45	-9.62	-4.36		28.28	.42	3	6.99	6.45			
70	125	195	6.75	-4.72	2.03	3.82	9.46	12.67	24.28	7.36	-8.30	-4.62		27.95	.42	3	7.00	6.46			
70	126	196	10.22	-5.57	4.65	5.46	9.28	12.97	24.67	6.04	-12.03	-4.84		27.61	.42	3	7.02	6.46			
70	127	197	15.51	-4.63	10.88	1.83	7.30	13.08	25.11	9.76	-10.71	-3.28		27.12	.40	3	7.03	6.47			
70	128	198	19.21	-3.72	15.49	3.47	5.30	13.39	25.51	8.44	-12.58	-1.68		26.76	.40	3	7.05	6.48			
70	129	199	24.73	-2.86	21.87	1.69	5.16	13.49	25.92	10.32	-11.24	-1.96		26.38	.40	3	7.06	6.48			
70	130	200	28.65	-2.04	26.61	3.33	5.03	13.79	26.33	8.99	-13.11	-2.24		26.00	.40	3	7.08	6.49			
70	131	201	34.38	-1.26	33.12	1.56	4.89	13.89	26.74	10.86	-11.78	-2.52		25.61	.40	3	7.09	6.50			
70	132	202	38.52	-.51	38.01	3.19	4.75	14.19	27.13	9.55	-13.63	-2.78		25.21	.40	3	7.11	6.50			
70	133	203	44.46	.19	44.65	1.43	4.62	14.28	27.52	11.40	-12.11	-3.05		24.80	.40	3	7.12	6.51			
70	134	204	48.81	.79	49.60	3.11	4.55	14.44	27.65	10.02	-13.41	-3.38	.07	24.38	.40	3	7.14	6.52			
70	135	205	54.95	.91	55.86	1.82	4.93	14.44	27.88	11.36	-11.89	-4.16	.12	23.95	.40	3	7.15	6.53			
70	136	206	59.51	.83	60.34	3.59	5.41	14.70	28.21	9.70	-13.67	-4.75	.14	23.51	.40	3	7.16	6.53			
70	137	207	65.84	.68	66.52	1.89	5.48	14.78	28.57	11.44	-12.35	-5.07	.15	23.07	.40	3	7.18	6.54			
70	138	208	70.61	.51	71.12	3.48	5.36	15.05	28.92	10.12	-14.18	-5.28	.16	22.61	.40	3	7.19	6.55			
70	139	209	77.13	.33	77.46	1.73	5.21	15.14	29.30	11.95	-12.90	-5.48	.16	22.15	.40	3	7.21	6.55			
70	140	210	82.09	.15	82.24	3.29	5.02	15.41	29.66	10.66	-14.74	-5.65	.17	21.68	.40	3	7.22	6.56			
70	141	211	88.80	-.03	88.77	1.54	4.83	15.50	30.04	12.50	-13.47	-5.84	.17	21.20	.40	3	7.24	6.57			
70	142	212	93.96	-.20	93.76	3.08	4.62	15.77	30.39	11.23	-15.30	-5.99	.17	20.71	.40	3	7.25	6.58			
70	143	213	100.85	-.36	100.49	1.34	4.43	15.86	30.76	13.07	-14.03	-6.16	.17	20.22	.40	3	7.27	6.58			
70	144	214	106.19	-.50	105.69	2.88	4.21	16.13	31.11	11.81	-15.85	-6.31	.17	19.72	.40	3	7.28	6.59			
70	145	215	113.26	-.64	112.62	1.13	4.02	16.21	31.48	13.64	-14.59	-6.48	.18	19.21	.40	3	7.29	6.60			
70	146	216	118.78	-.76	118.02	2.67	3.81	16.48	31.83	12.38	-16.41	-6.63	.18	18.70	.40	3	7.31	6.60			
70	147	217	126.02	-.87	125.15	.94	3.61	16.57	32.19	14.20	-15.14	-6.79	.18	18.18	.40	3	7.32	6.61			
70	148	218	131.72	-.97	130.75	2.47	3.41	16.83	32.54	12.94	-16.95	-6.95	.18	17.65	.40	3	7.34	6.62			
70	149	219	139.13	-1.06	138.07	.74	3.22	16.92	32.90	14.75	-15.69	-7.11	.18	17.11	.40	3	7.35	6.63			
70	150	220	145.00	-1.13	143.87	2.27	3.02	17.18	33.24	13.49	-17.49	-7.26	.18	16.57	.40	3	7.36	6.63			
70	151	221	152.57	-1.19	151.38	.56	2.83	17.27	33.60	15.29	-16.23	-7.43	.18	16.02	.40	3	7.38	6.64			
70	152	222	158.61	-1.23	157.38	2.08	2.63	17.53	33.93	14.04	-18.01	-7.58	.18	15.47	.40	3	7.39	6.65			
70	153	223	166.35	-1.27	165.08	.37	2.45	17.60	34.28	15.83	-16.76	-7.74	.18	14.91	.40	3	7.40	6.65			
70	154	224	172.55	-1.29	171.26	1.89	2.26	17.86	34.62	14.57	-18.54	-7.90	.18	14.34	.40	3	7.42	6.66			
70	155	225	180.44	-1.29	179.15	.19	2.07	17.94	34.95	16.36	-17.27	-8.05	.18	13.77	.40	3	7.43	6.67			
70	156	226	186.81	-1.29	185.52	1.70	1.89	18.19	35.28	15.11	-19.04	-8.20	.18	13.19	.40	3	7.45	6.68			
70	157	227	194.85	-1.27	193.58	.01	1.71	18.27	35.62	16.87	-17.79	-8.37	.18	12.61	.40	3	7.46	6.68			
70	158	228	201.37	-1.24	200.13	1.52	1.53	18.53	35.95	15.62	-19.55	-8.52	.18	12.02	.40	3	7.47	6.69			
70	160	230	216.24	-1.14	215.10	1.34	1.18	18.85	36.60	16.14	-20.03	-8.83	.18	10.63	.38	3	7.50	6.70			
70	162	232	231.40	-.99	230.41	1.16	.83	19.17	37.25	16.65	-20.52	-9.14	.18	9.42	.38	3	7.53	6.72			
70	164	234	246.85	-.80	246.05	.99	.50	19.48	37.89	17.14	-21.00	-9.46	.18	8.19	.38	3	7.55	6.73			
70	166	236	262.57	-.56	262.01	.83	.18	19.80	38.53	17.62	-21.47	-9.78	.17	6.95	.38	3	7.58	6.75			
70	168	238	278.57	-.28	278.29	.68	-.13	20.12	39.16	18.10	-21.93	-10.10	.17	5.25	.28	4	7.61	6.76			
70	170	240	294.84	.03	294.87	.53	-.43	20.43	39.79	18.57	-22.38	-10.43	.16	4.41	.26	4	7.63	6.78			
70	172	242	311.37	.32	311.69	.42	-.67	20.75	40.44	19.01	-22.76	-10.81	.14	3.68	.24	4	7.66	6.79			
70	174	244	328.16	-.19	327.97	.95	-.13	21.30	41.50	19.05	-22.72	-12.00		3.05	.24	4	7.68	6.80			
70	176	246	345.20	-1.45	343.75	.92	.36	21.59	42.09	19.42	-23.08	-13.57		2.50	.22	4	7.71	6.82			
70	178	248	362.48	-2.80	359.68	.85	.21	21.87	42.66	19.79	-23.43	-14.00		2.01	.20	4	7.73	6.83			
70	180	250	379.99	-4.24	375.75	.78	.07	22.16	43.22	20.15	-23.77	-14.43		1.59	.18	4	7.76	6.85			
70	182	252	397.74	-5.78	391.96	.71	-.07	22.44	43.78	20.50	-24.12	-14.86		1.23	.18	4	7.78	6.86			
70	184	254	415.72	-7.41	408.31	.64	-.20	22.71	44.33	20.86	-26.21	-15.28		.92	.16	4	7.81	6.88			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
71	73	144	-.63	1.24	.61	12.38	26.94	-2.55	-2.91	-13.03	15.49	5.70	.14	22.15	.36	4	6.10	6.12			
71	74	145	-6.47	1.23	-5.24	13.91	26.30	-2.35	-2.27	-14.38	13.15	5.53	.12	22.78	.36	4	6.12	6.12			
71	75	146	-10.34	1.06	-9.28	12.12	26.03	-1.81	-1.53	-12.08	14.67	5.18	.07	23.38	.36	4	6.14	6.13			
71	76	147	-15.67	.51	-15.16	13.95	26.06	-1.50	-.64	-13.54	12.38	4.50		23.96	.38	4	6.16	6.14			
71	77	148	-19.04	-.13	-19.17	12.08	26.03	-1.08	-.05	-11.22	13.74	3.79		24.52	.38	4	6.18	6.14			
71	78	149	-23.87	-.81	-24.68	13.59	25.66	-.94	.50	-12.58	11.44	3.27		25.05	.40	4	6.20	6.15			
71	79	150	-26.77	-1.54	-28.31	11.70	25.28	-.52	1.07	-10.29	12.79	3.06		25.56	.40	4	6.22	6.16			
71	80	151	-31.12	-2.31	-33.43	13.19	24.89	-.38	1.61	-11.64	10.51	2.90		25.96	.36	3	6.24	6.17			
71	81	152	-33.56	-3.13	-36.69	11.32	24.52	.04	2.18	-9.37	11.86	2.70		26.40	.36	3	6.26	6.17			
71	82	153	-37.45	-3.99	-41.44	12.82	24.15	.17	2.72	-10.73	7.73	2.53		26.81	.36	3	6.28	6.18			
71	83	154	-39.44	-3.03	-42.47	9.11	21.93	.59	3.27	-6.62	9.10	4.20		27.20	.36	3	6.30	6.19			
71	84	155	-42.89	-2.14	-45.03	10.62	19.74	.74	3.84	-7.99	6.85	5.85		27.56	.36	3	6.32	6.19	-42.69	.20	2.34
71	85	156	-44.45	-1.30	-45.75	8.79	19.42	1.15	4.39	-5.77	8.22	5.60		27.90	.36	3	6.34	6.20	-43.93	.52	1.82
71	86	157	-47.46	-.51	-47.97	10.30	19.09	1.29	4.93	-7.12	6.00	5.38		28.36	.38	3	6.35	6.21	-46.31	1.15	1.66
71	87	158	-48.60	.22	-48.38	8.48	18.78	1.69	5.47	-4.92	7.43	5.13		28.67	.38	3	6.37	6.21	-47.11	1.49	1.27
71	88	159	-51.19	.90	-50.29	9.98	18.47	1.77	5.80	-6.27	5.68	4.91		28.95	.38	3	6.39	6.22	-48.94	2.25	1.35
71	89	160	-51.93	1.25	-50.68	8.46	18.45	2.00	6.09	-4.36	7.34	4.38	.10	29.21	.38	3	6.41	6.23	-49.53	2.40	1.15
71	90	161	-54.12	1.31	-52.81	10.20	18.66	2.08	6.52	-6.17	5.23	3.83	.13	29.44	.38	3	6.43	6.23	-51.64	2.48	1.17
71	91	162	-54.46	1.27	-53.19	8.46	18.66	2.44	7.00	-4.15	6.61	3.55	.14	29.66	.38	3	6.45	6.24	-52.20	2.26	.99
71	92	163	-56.26	1.19	-55.07	9.95	18.41	2.56	7.49	-5.55	4.42	3.37	.15	29.85	.38	3	6.46	6.25	-54.22	2.04	.85
71	93	164	-56.22	1.09	-55.13	8.13	18.08	2.93	7.99	-3.38	5.74	3.22	.16	30.03	.38	3	6.48	6.25	-54.46	1.76	.67
71	94	165	-57.64	.99	-56.65	9.59	17.73	3.07	8.49	-4.72	3.55	3.08	.16	30.29	.40	3	6.50	6.26	-56.18	1.46	.47
71	95	166	-57.24	.89	-56.35	7.77	17.36	3.44	9.00	-2.54	4.85	2.95	.17	30.43	.40	3	6.52	6.27	-56.11	1.13	.24
71	96	167	-58.28	.80	-57.48	9.21	16.97	3.57	9.49	-3.84	2.68	2.83	.17	30.55	.40	3	6.54	6.28	-57.50	.78	-.02
71	97	168	-57.53	.72	-56.81	7.40	16.60	3.95	9.99	-1.68	3.97	2.70	.17	30.64	.40	3	6.55	6.28	-57.19	.34	-.38
71	98	169	-58.21	.65	-57.56	8.83	16.22	4.07	10.48	-2.97	1.81	2.58	.17	30.72	.40	3	6.57	6.29	-58.07	.14	-.51
71	99	170	-57.11	.59	-56.52	7.03	15.85	4.44	10.98	-.82	3.11	2.45	.17	30.79	.40	3	6.59	6.30	-57.30	-.19	-.78
71	100	171	-57.45	.54	-56.91	8.45	15.49	4.57	11.48	-2.12	.95	2.32	.17	30.83	.40	3	6.61	6.30	-57.89	-.44	-.98

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
71	101	172	-56.02	.51	-55.51	6.67	15.13	4.94	11.97	.02	2.24	2.18	.17	30.85	.40	3	6.62	6.31	-56.74	-.72	-1.23
71	102	173	-56.01	.50	-55.51	8.08	14.75	5.05	12.44	-1.26	.12	2.08	.17	30.86	.40	3	6.64	6.32	-56.85	-.84	-1.34
71	103	174	-54.26	.50	-53.76	6.32	14.40	5.42	12.93	.86	1.41	1.93	.17	30.85	.40	3	6.66	6.32	-55.56	-1.30	-1.80
71	104	175	-53.93	.51	-53.42	7.73	14.05	5.55	13.41	-.43	-.71	1.80	.17	30.83	.40	3	6.67	6.33	-55.15	-1.22	-1.73
71	105	176	-51.86	.53	-51.33	5.98	13.71	5.90	13.89	1.67	.58	1.65	.17	30.79	.40	3	6.69	6.34	-53.37	-1.51	-2.04
71	106	177	-51.21	.57	-50.64	7.39	13.36	6.02	14.36	.39	-1.51	1.53	.17	30.73	.40	3	6.71	6.34	-52.37	-1.16	-1.73
71	107	178	-48.84	.62	-48.22	5.65	13.04	6.38	14.84	2.48	-.23	1.37	.17	30.65	.40	3	6.72	6.35	-50.17	-1.33	-1.95
71	108	179	-47.88	.68	-47.20	7.05	12.70	6.50	15.30	1.19	-2.30	1.24	.17	30.56	.40	3	6.74	6.36	-49.10	-1.22	-1.90
71	109	180	-45.21	.75	-44.46	5.33	12.38	6.85	15.77	3.26	-1.01	1.08	.16	30.46	.40	3	6.76	6.36	-46.47	-1.26	-2.01
71	110	181	-43.96	.82	-43.14	6.74	12.08	6.98	16.25	1.97	-3.08	.92	.16	30.34	.40	3	6.77	6.37			
71	111	182	-41.00	.91	-40.09	5.03	11.77	7.33	16.71	4.03	-1.79	.75	.16	30.20	.40	3	6.79	6.38			
71	112	183	-39.46	.99	-38.47	6.45	11.48	7.45	17.18	2.73	-3.83	.58	.15	30.05	.40	3	6.81	6.39			
71	113	184	-36.22	1.07	-35.15	4.76	11.20	7.80	17.65	4.77	-2.53	.39	.14	29.89	.40	3	6.82	6.39			
71	114	185	-34.39	1.13	-33.26	6.18	10.94	7.93	18.12	3.47	-4.53	.19	.14	29.71	.40	3	6.84	6.40			
71	115	186	-30.88	1.15	-29.73	4.54	10.72	8.30	18.61	5.47	-3.20	-.07	.12	29.52	.40	3	6.85	6.41			
71	116	187	-28.78	1.07	-27.71	6.05	10.59	8.47	19.15	4.13	-5.10	-.41	.10	29.31	.40	3	6.87	6.41			
71	117	188	-25.01	.70	-24.31	4.66	10.72	8.98	19.87	5.94	-3.62	-1.04		29.10	.40	3	6.88	6.42			
71	118	189	-22.64	.11	-22.53	6.30	10.96	9.13	20.45	4.59	-5.56	-1.82		28.87	.40	3	6.90	6.43			
71	119	190	-18.61	-.52	-19.13	4.67	10.97	9.45	20.88	6.54	-4.24	-2.54		28.62	.40	3	6.92	6.43			
71	120	191	-15.98	-1.18	-17.16	6.10	10.77	9.55	21.30	5.21	-6.17	-2.92		28.37	.40	3	6.93	6.44			
71	121	192	-11.70	-1.87	-13.57	4.48	10.59	9.87	21.72	7.15	-4.84	-3.17		28.10	.40	3	6.95	6.45			
71	122	193	-8.82	-2.60	-11.42	5.91	10.40	9.98	22.14	5.82	-6.77	-3.41		27.82	.40	3	6.96	6.46			
71	123	194	-4.30	-3.36	-7.66	4.31	10.23	10.29	22.56	7.74	-5.45	-3.66		27.53	.40	3	6.98	6.46			
71	124	195	-1.18	-4.15	-5.33	5.74	10.05	10.40	22.97	6.41	-7.36	-3.89		27.23	.40	3	6.99	6.47			
71	125	196	3.58	-4.97	-1.39	4.13	9.87	10.71	23.38	8.32	-6.04	-4.14		26.92	.40	3	7.01	6.48			
71	126	197	6.94	-5.82	1.12	5.56	9.70	10.81	23.79	7.00	-9.77	-4.37		26.60	.40	3	7.02	6.48			
71	127	198	11.93	-4.87	7.06	2.14	7.69	11.12	24.20	10.73	-8.43	-2.78		26.26	.40	3	7.04	6.49			
71	128	199	15.52	-3.97	11.55	3.58	5.72	11.23	24.62	9.39	-10.32	-1.20		25.92	.40	3	7.05	6.50			
71	129	200	20.73	-3.11	17.62	2.00	5.58	11.54	25.03	11.27	-9.00	-1.48		25.56	.40	3	7.07	6.50			
71	130	201	24.55	-2.29	22.26	3.43	5.43	11.65	25.43	9.95	-10.86	-1.75		25.20	.40	3	7.08	6.51			
71	131	202	29.98	-1.51	28.47	1.86	5.29	11.95	25.83	11.81	-9.54	-2.02		24.82	.40	3	7.10	6.52			
71	132	203	34.02	-.77	33.25	3.29	5.15	12.05	26.23	10.49	-11.39	-2.29		24.44	.40	3	7.11	6.53			
71	133	204	39.65	-.07	39.58	1.74	5.03	12.36	26.64	12.34	-10.03	-2.57		24.05	.40	3	7.13	6.53			
71	134	205	43.91	.59	44.50	3.16	4.89	12.40	26.84	11.02	-11.36	-2.83		23.64	.40	3	7.14	6.54			
71	135	206	49.75	.89	50.64	1.93	5.08	12.50	26.95	12.54	-9.70	-3.42	.11	23.23	.40	3	7.16	6.55			
71	136	207	54.22	.87	55.09	3.63	5.55	12.54	27.23	10.71	-11.43	-4.09	.13	22.81	.40	3	7.17	6.55			
71	137	208	60.26	.74	61.00	2.15	5.79	12.81	27.59	12.37	-10.11	-4.44	.15	22.38	.40	3	7.19	6.56			
71	138	209	64.93	.58	65.51	3.56	5.72	12.89	27.94	11.02	-11.95	-4.66	.15	21.94	.40	3	7.20	6.57			
71	139	210	71.17	.41	71.58	2.00	5.57	13.17	28.30	12.84	-10.66	-4.85	.16	21.50	.40	3	7.22	6.58			
71	140	211	76.03	.24	76.27	3.38	5.39	13.26	28.67	11.55	-12.50	-5.03	.16	21.04	.40	3	7.23	6.58			
71	141	212	82.46	.07	82.53	1.82	5.19	13.54	29.03	13.39	-11.23	-5.20	.17	20.58	.40	3	7.24	6.59			
71	142	213	87.52	-.10	87.42	3.17	4.99	13.62	29.40	12.11	-13.07	-5.36	.17	20.11	.40	3	7.26	6.60			
71	143	214	94.13	-.25	93.88	1.62	4.79	13.90	29.76	13.94	-11.80	-5.53	.17	19.63	.40	3	7.27	6.60			
71	144	215	99.38	-.40	98.98	2.97	4.59	13.99	30.12	12.68	-13.64	-5.69	.17	19.14	.40	3	7.29	6.61			
71	145	216	106.17	-.53	105.64	1.42	4.38	14.27	30.48	14.50	-12.38	-5.85	.17	18.65	.40	3	7.30	6.62			
71	146	217	111.60	-.65	110.95	2.76	4.18	14.36	30.84	13.24	-14.20	-6.00	.18	18.15	.40	3	7.31	6.62			
71	147	218	118.57	-.76	117.81	1.22	3.97	14.63	31.19	15.06	-12.94	-6.16	.18	17.64	.40	3	7.33	6.63			
71	148	219	124.18	-.86	123.32	2.56	3.77	14.71	31.55	13.80	-14.75	-6.32	.18	17.13	.40	3	7.34	6.64			
71	149	220	131.32	-.94	130.38	1.02	3.57	14.98	31.90	15.61	-13.49	-6.47	.18	16.61	.40	3	7.36	6.65			
71	150	221	137.11	-1.01	136.10	2.35	3.37	15.06	32.24	14.36	-15.29	-6.62	.18	16.08	.40	3	7.37	6.65			
71	151	222	144.41	-1.07	143.34	.83	3.18	15.34	32.60	16.14	-14.04	-6.79	.18	15.54	.40	3	7.38	6.66			
71	152	223	150.37	-1.12	149.25	2.16	2.99	15.42	32.94	14.89	-15.83	-6.94	.18	15.00	.40	3	7.40	6.67			
71	153	224	157.84	-1.15	156.69	.63	2.79	15.68	33.28	16.68	-14.58	-7.09	.18	14.46	.40	3	7.41	6.67			
71	154	225	163.96	-1.17	162.79	1.97	2.61	15.76	33.63	15.43	-16.36	-7.25	.18	13.90	.40	3	7.43	6.68			
71	155	226	171.59	-1.18	170.41	.45	2.42	16.02	33.97	17.20	-15.11	-7.41	.18	13.15	.38	3	7.44	6.69			
71	156	227	177.88	-1.17	176.71	1.77	2.23	16.10	34.29	15.96	-16.87	-7.55	.18	12.59	.38	3	7.45	6.70			
71	157	228	185.66	-1.15	184.51	.27	2.05	16.36	34.63	17.72	-15.62	-7.71	.18	12.02	.38	3	7.47	6.70			
71	158	229	192.10	-1.12	190.98	1.60	1.87	16.44	34.97	16.47	-17.39	-7.87	.18	11.45	.38	3	7.48	6.71			
71	159	230	200.03	-1.08	198.95	.10	1.70	16.70	35.30	18.22	-16.15	-8.04	.18	10.87	.38	3	7.49	6.72			
71	160	231	206.63	-1.02	205.61	1.42	1.51	16.78	35.63	16.98	-17.89	-8.18	.18	10.28	.38	3	7.51	6.72			
71	162	233	221.47	-.87	220.60	1.24	1.16	17.10	36.26	17.49	-18.37	-8.48	.18	9.09	.38	3	7.53	6.74			
71	164	235	236.59	-.68	235.91	1.07	.82	17.43	36.91	17.98	-18.86	-8.80	.17	7.89	.38	3	7.56	6.75			
71	166	237	252.00	-.44	251.56	.90	.49	17.75	37.55	18.47	-19.34	-9.11	.17	6.49	.36	3	7.59	6.77			
71	168	239	267.68	-.17	267.51	.75	.19	18.07	38.19	18.94	-19.82	-9.44	.17	5.20	.28	4	7.61	6.78			
71	170	241	283.64	.13	283.77	.60	-.11	18.39	38.82	19.40	-20.27	-9.77	.16	4.42	.26	4	7.64	6.80			
71	172	243	299.86	.38	300.24	.52	-.33	18.75	39.50	19.83	-20.61	-10.19	.12	3.72	.24	4	7.66	6.81			
71	174	245	316.34	-.42	315.92	1.08	.46	19.34	40.64	19.92	-20.69	-11.66		3.10	.24	4	7.69	6.82			
71	176	247	333.08	-1.67	331.41	.99	.66	19.63	41.22	20.29	-21.05	-13.00		2.56	.22	4	7.71	6.84			
71	178	249	350.06	-3.02	347.04	.92	.51	19.92	41.80	20.65	-21.42	-13.44		2.08	.20	4	7.74	6.85			
71	180	251	367.29	-4.46	362.83	.84	.36	20.21	42.37	21.02	-21.77	-13.86		1.66	.18	4	7.77	6.87			
71	182	253	384.75	-5.99	378.76	.77	.22	20.49	42.92	21.37	-22.11	-14.28		1.31	.18	4	7.79	6.88			
71	184	255	402.45	-7.62	394.83	.69	.07	20.77	43.47	21.72	-24.22	-14.70		1.00	.16	4	7.82	6.90			

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72	69	141	32.94	.91	33.85	14.02	30.38	-2.90	-7.09	-18.76	17.43	6.22	.17	17.26	.34	4	6.03	6.11
72	70	142	25.17	1.01	26.18	15.75	29.77	-2.47	-6.51	-20.03	14.77	6.23	.16	18.00	.34	4	6.05	6.12
72	71	143	19.68	1.10	20.78	13.47	29.22	-2.08	-5.46	-17.59	15.86	6.17	.16	18.71	.34	4	6.07	6.13
72	72	144	12.47	1.17	13.64	15.21	28.68	-1.43	-4.43	-18.88	13.04	6.12	.15	19.40	.34	4	6.09	6.13
72	73	145	7.94	1.20	9.14	12.58	27.78	-1.24	-3.79	-16.05	14.38	5.97	.13	20.05	.34	4	6.11	6.14
72	74	146	1.68	1.11	2.79	14.42	26.99	-.74	-3.09	-17.19	12.07	5.74	.10	20.69	.36	4	6.13	6.15
72	75	147	-2.33	.72	-1.61	12.48	26.89	-.38	-2.20	-14.70	13.55	5.19		21.32	.36	4	6.15	6.15
72	76	148	-8.07	.13	-7.94	14.40	26.88	.07	-1.44	-16.05	11.23	4.51		21.92	.36	4	6.17	6.16
72	77	149	-11.60	-.50	-12.10	12.23	26.63	.22	-.86	-13.74	12.59	3.86		22.49	.36	4	6.19	6.17
72	78	150	-16.84	-1.18	-18.02	13.99	26.22	.62	-.31	-15.09	10.29	3.51		23.03	.36	4	6.21	6.18
72	79	151	-19.88	-1.90	-21.78	11.83	25.82	.76	.24	-12.79	11.66	3.34		23.55	.38	4	6.23	6.18
72	80	152	-24.64	-2.67	-27.31	13.60	25.43	1.16	.78	-14.14	9.38	3.18		24.05	.38	4	6.25	6.19
72	81	153	-27.23	-3.48	-30.71	11.47	25.07	1.31	1.35	-11.87	10.73	2.98		24.53	.40	4	6.27	6.20

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
72	82	154	-31.52	-4.33	-35.85	13.22	24.68	1.70	1.88	-13.21	6.62	2.83		24.70	.34	3	6.29	6.20			
72	83	155	-33.65	-3.38	-37.03	9.25	22.47	1.85	2.43	-9.11	7.99	4.49		25.36	.36	3	6.31	6.21			
72	84	156	-37.49	-2.49	-39.98	11.01	20.27	2.24	2.98	-10.46	5.76	6.15		25.75	.36	3	6.33	6.22			
72	85	157	-39.20	-1.65	-40.85	8.94	19.96	2.40	3.54	-8.24	7.12	5.90		26.11	.36	3	6.34	6.22	-39.05	.15	1.80
72	86	158	-42.60	-.87	-43.47	10.69	19.63	2.79	4.08	-9.59	4.91	5.68		26.45	.36	3	6.36	6.23	-42.18	.42	1.29
72	87	159	-43.88	-.14	-44.02	8.62	19.32	2.93	4.62	-7.38	6.27	5.44		26.77	.36	3	6.38	6.24	-42.74	1.14	1.28
72	88	160	-46.86	.54	-46.32	10.37	19.00	3.32	5.09	-8.73	4.36	5.22		27.07	.36	3	6.40	6.24	-45.23	1.63	1.09
72	89	161	-47.74	1.10	-46.64	8.39	18.77	3.25	5.25	-6.61	6.16	4.91	.08	27.34	.36	3	6.42	6.25	-45.54	2.20	1.10
72	90	162	-50.31	1.27	-49.04	10.48	18.86	3.53	5.60	-8.36	4.15	4.35	.12	27.60	.36	3	6.44	6.26	-48.20	2.11	.84
72	91	163	-50.79	1.27	-49.52	8.55	19.03	3.61	6.06	-6.53	5.55	4.02	.14	27.97	.38	3	6.46	6.26	-48.62	2.17	.90
72	92	164	-52.96	1.21	-51.75	10.30	18.85	3.97	6.53	-7.98	3.38	3.84	.15	28.19	.38	3	6.47	6.27	-51.06	1.90	.69
72	93	165	-53.07	1.13	-51.94	8.26	18.56	4.09	7.03	-5.85	4.71	3.68	.15	28.39	.38	3	6.49	6.28	-51.08	1.99	.86
72	94	166	-54.85	1.04	-53.81	9.95	18.21	4.45	7.51	-7.17	2.54	3.56	.16	28.57	.38	3	6.51	6.28	-53.41	1.44	.40
72	95	167	-54.59	.95	-53.64	7.90	17.85	4.58	8.02	-5.00	3.84	3.42	.16	28.73	.38	3	6.53	6.29	-53.20	1.39	.44
72	96	168	-56.00	.86	-55.14	9.57	17.47	4.94	8.51	-6.31	1.67	3.31	.17	28.87	.38	3	6.54	6.30	-55.19	.81	-.05
72	97	169	-55.37	.78	-54.59	7.52	17.10	5.06	9.01	-4.13	2.97	3.18	.17	28.99	.38	3	6.56	6.30	-54.70	.67	-.11
72	98	170	-56.42	.72	-55.70	9.18	16.71	5.43	9.49	-5.42	.82	3.08	.17	29.08	.38	3	6.58	6.31	-56.10	.32	-.40
72	99	171	-55.45	.66	-54.79	7.16	16.34	5.55	10.00	-3.27	2.11	2.94	.17	29.17	.38	3	6.60	6.32	-55.29	.16	-.50
72	100	172	-56.15	.62	-55.53	8.81	15.97	5.91	10.48	-4.56	-.03	2.83	.17	29.23	.38	3	6.61	6.33	-56.34	-.19	-.81
72	101	173	-54.84	.59	-54.25	6.79	15.60	6.04	10.97	-2.41	1.27	2.70	.17	29.40	.40	3	6.63	6.33	-55.25	-.41	-1.00
72	102	174	-55.20	.58	-54.62	8.44	15.24	6.39	11.45	-3.70	-.86	2.58	.17	29.43	.40	3	6.65	6.34	-55.76	-.56	-1.14
72	103	175	-53.57	.58	-52.99	6.45	14.88	6.52	11.94	-1.57	.43	2.44	.17	29.44	.40	3	6.66	6.35	-54.54	-.97	-1.55
72	104	176	-53.59	.59	-53.00	8.08	14.52	6.87	12.41	-2.85	-1.67	2.32	.17	29.44	.40	3	6.68	6.35	-54.56	-.97	-1.56
72	105	177	-51.64	.61	-51.03	6.10	14.18	6.99	12.89	-.74	-.38	2.18	.17	29.42	.40	3	6.70	6.36	-52.87	-1.23	-1.84
72	106	178	-51.34	.65	-50.69	7.73	13.83	7.34	13.36	-2.02	-2.47	2.05	.17	29.38	.40	3	6.72	6.37	-52.42	-1.08	-1.73
72	107	179	-49.09	.70	-48.39	5.77	13.50	7.46	13.84	.07	-1.18	1.90	.17	29.33	.40	3	6.73	6.37	-50.45	-1.36	-2.06
72	108	180	-48.48	.75	-47.73	7.40	13.18	7.81	14.32	-1.22	-3.26	1.75	.16	29.26	.40	3	6.75	6.38	-49.77	-1.29	-2.04
72	109	181	-45.93	.82	-45.11	5.46	12.86	7.93	14.79	.86	-1.97	1.59	.16	29.18	.40	3	6.76	6.39	-47.39	-1.46	-2.28
72	110	182	-45.01	.89	-44.12	7.08	12.54	8.27	15.25	-.42	-4.03	1.45	.16	29.08	.40	3	6.78	6.39	-45.90	-.89	-1.78
72	111	183	-42.17	.97	-41.20	5.15	12.24	8.40	15.72	1.64	-2.73	1.28	.15	28.97	.40	3	6.80	6.40	-43.22	-1.05	-2.02
72	112	184	-40.96	1.04	-39.92	6.79	11.95	8.74	16.19	.36	-4.77	1.10	.15	28.84	.40	3	6.81	6.41			
72	113	185	-37.84	1.10	-36.74	4.89	11.68	8.87	16.68	2.39	-3.48	.89	.14	28.69	.40	3	6.83	6.41			
72	114	186	-36.34	1.14	-35.20	6.54	11.43	9.23	17.16	1.10	-5.47	.68	.13	28.54	.40	3	6.85	6.42			
72	115	187	-32.95	1.11	-31.84	4.71	11.25	9.39	17.69	3.09	-4.13	.37	.11	28.37	.40	3	6.86	6.43			
72	116	188	-31.17	.91	-30.26	6.49	11.20	9.83	18.31	1.73	-5.96	-.06	.06	28.18	.40	3	6.88	6.44			
72	117	189	-27.51	.38	-27.13	4.94	11.44	10.11	19.10	3.62	-4.60	-.83		27.99	.40	3	6.89	6.44			
72	118	190	-25.46	-.21	-25.67	6.61	11.56	10.43	19.56	2.31	-6.54	-1.56		27.78	.40	3	6.91	6.45			
72	119	191	-21.54	-.83	-22.37	4.77	11.39	10.53	19.98	4.26	-5.21	-2.18		27.55	.40	3	6.92	6.46			
72	120	192	-19.23	-1.49	-20.72	6.42	11.20	10.85	20.40	2.94	-7.14	-2.45		27.32	.40	3	6.94	6.46			
72	121	193	-15.06	-2.18	-17.24	4.59	11.01	10.95	20.83	4.87	-5.82	-2.70		27.07	.40	3	6.95	6.47			
72	122	194	-12.50	-2.90	-15.40	6.23	10.82	11.27	21.25	3.55	-7.74	-2.93		26.81	.40	3	6.97	6.48			
72	123	195	-8.09	-3.66	-11.75	4.42	10.65	11.38	21.68	5.46	-6.42	-3.19		26.54	.40	3	6.99	6.48			
72	124	196	-5.27	-4.44	-9.71	6.04	10.45	11.68	22.07	4.16	-8.32	-3.40		26.26	.40	3	7.00	6.49			
72	125	197	-.62	-5.26	-5.88	4.24	10.28	11.78	22.49	6.06	-7.00	-3.65		25.96	.40	3	7.02	6.50			
72	126	198	2.44	-6.11	-3.67	5.86	10.10	12.08	22.89	4.75	-10.72	-3.88		25.66	.40	3	7.03	6.50			
72	127	199	7.32	-5.16	2.16	2.25	8.10	12.19	23.31	8.47	-9.39	-2.30		25.34	.40	3	7.05	6.51			
72	128	200	10.61	-4.26	6.35	3.88	6.13	12.49	23.72	7.15	-11.27	-.72		25.02	.40	3	7.06	6.52			
72	129	201	15.72	-3.40	12.32	2.11	5.98	12.59	24.13	9.03	-9.94	-.99		24.68	.40	3	7.08	6.53			
72	130	202	19.24	-2.59	16.65	3.73	5.84	12.90	24.54	7.71	-11.81	-1.27		24.33	.40	3	7.09	6.53			
72	131	203	24.57	-1.81	22.76	1.97	5.70	12.99	24.94	9.58	-10.49	-1.54		23.98	.40	3	7.11	6.54			
72	132	204	28.32	-1.07	27.25	3.58	5.55	13.29	25.33	8.27	-12.33	-1.79		23.61	.40	3	7.12	6.55			
72	133	205	33.85	-.37	33.48	1.84	5.42	13.39	25.74	10.12	-11.02	-2.07		23.23	.40	3	7.14	6.55			
72	134	206	37.82	.28	38.10	3.45	5.29	13.68	26.08	8.80	-12.54	-2.33		22.85	.40	3	7.15	6.56			
72	135	207	43.56	.81	44.37	1.80	5.25	13.56	26.07	10.55	-10.71	-2.70	.08	22.45	.40	3	7.16	6.57			
72	136	208	47.74	.89	48.63	3.82	5.62	13.75	26.29	8.74	-12.37	-3.40	.12	22.05	.40	3	7.18	6.57			
72	137	209	53.69	.80	54.49	2.21	6.03	13.80	26.61	10.21	-11.02	-3.79	.14	21.63	.40	3	7.19	6.58			
72	138	210	58.07	.67	58.74	3.83	6.03	14.07	26.95	8.83	-12.84	-4.02	.15	21.21	.40	3	7.21	6.59			
72	139	211	64.21	.51	64.72	2.09	5.91	14.15	27.32	10.62	-11.55	-4.23	.16	20.78	.40	3	7.22	6.60			
72	140	212	68.80	.34	69.14	3.65	5.74	14.42	27.68	9.33	-13.39	-4.40	.16	20.34	.40	3	7.24	6.60			
72	141	213	75.14	.17	75.31	1.90	5.55	14.50	28.04	11.16	-12.11	-4.57	.16	19.89	.40	3	7.25	6.61			
72	142	214	79.92	.02	79.94	3.45	5.35	14.78	28.40	9.90	-13.94	-4.72	.17	19.44	.40	3	7.27	6.62			
72	143	215	86.44	-.14	86.30	1.70	5.15	14.86	28.77	11.72	-12.68	-4.90	.17	18.98	.40	3	7.28	6.62			
72	144	216	91.42	-.28	91.14	3.23	4.94	15.13	29.12	10.47	-14.50	-5.04	.17	18.51	.40	3	7.29	6.63			
72	145	217	98.12	-.41	97.71	1.50	4.74	15.22	29.49	12.30	-13.24	-5.21	.17	18.03	.40	3	7.31	6.64			
72	146	218	103.28	-.53	102.75	3.03	4.53	15.49	29.84	11.04	-15.06	-5.36	.17	17.54	.40	3	7.32	6.64			
72	147	219	110.16	-.64	109.52	1.30	4.33	15.58	30.21	12.85	-13.80	-5.52	.17	17.05	.40	3	7.34	6.65			
72	148	220	115.51	-.73	114.78	2.82	4.12	15.84	30.55	11.62	-15.60	-5.66	.18	16.55	.40	3	7.35	6.66			
72	149	221	122.56	-.82	121.74	1.10	3.93	15.92	30.91	13.41	-14.35	-5.83	.18	16.04	.40	3	7.36	6.67			
72	150	222	128.08	-.89	127.19	2.62	3.73	16.19	31.26	12.16	-16.15	-5.98	.18	15.34	.38	3	7.38	6.67			
72	151	223	135.30	-.94	134.36	.91	3.53	16.27	31.60	13.97	-14.89	-6.14	.18	14.82	.38	3	7.39	6.68			
72	152	224	141.00	-.99	140.01	2.42	3.33	16.53	31.95	12.72	-16.68	-6.29	.18	14.30	.38	3	7.40	6.69			
72	153	225	148.38	-1.02	147.36	.72	3.14	16.62	32.30	14.50	-15.43	-6.45	.18	13.76	.38	3	7.42	6.69			
72	154	226	154.25	-1.04	153.21	2.22	2.94	16.87	32.63	13.26	-17.20	-6.60	.18	13.23	.38	3	7.43	6.70			
72	155	227	161.79	-1.05	160.74	.54	2.77	16.96	32.99	15.03	-15.97	-6.77	.18	12.68	.38	3	7.45	6.71			
72	156	228	167.83	-1.04	166.79	2.03	2.56	17.20	33.31	13.80	-17.72	-6.90	.18	12.13	.38	3	7.46	6.72			
72	157	229	175.53	-1.02	174.51	.35	2.38	17.28	33.65	15.56	-16.47	-7.06	.18	11.57	.38	3	7.47	6.72			
72	158	230	181.72	-.99	180.73	1.85	2.20	17.54	33.98	14.32	-18.23	-7.21	.18	11.01	.38	3	7.49	6.73			
72	159	231	189.58	-.95	188.63	.17	2.02	17.61	34.31	16.08	-16.98	-7.37	.18	10.44	.38	3	7.50	6.74			
72	160	232	195.93	-.89	195.04	1.66	1.84	17.86	34.64	14.85	-18.72	-7.52	.18	9.87	.38	3	7.51	6.74			
72	161	233	203.93	-.82	203.11		1.66	17.94	34.97	16.59	-17.48	-7.68	.18	9.29	.38	3	7.53	6.75			
72	162	234	210.43	-.74	209.69	1.49	1.49	18.19	35.29	15.35	-19.22	-7.83	.17	8.53	.36	3	7.54	6.76			
72	164	236	225.24	-.55	224.69	1.31	1.14	18.51	35.94	15.86	-19.70	-8.14	.17	7.35	.36	3	7.57	6.77			
72	166	238	240.33	-.32	240.01	1.15	.82	18.83	36.58	16.35	-20.18	-8.46	.17	5.95	.28	4	7.59	6.79			
72	168	240	255.71	-.05	255.66	.98	.50	19.14	37.21	16.84	-20.64	-8.78	.16	5.13	.28	4	7.62	6.80			
72	170	242	271.36	.24	271.60	.84	.20	19.46	37.85	17.31	-21.08	-9.12	.15	4.39	.26	4	7.64	6.81			
72	172	244	287.28	.38	287.66	.83	.08	19.87	38.62	17.71	-21.26	-9.64	.09	3.73	.24	4	7.67	6.83			
72	174	246	303.46	-.69	302.77	1.30	1.03	20.44	39.78	17.89	-21.56	-11.35		3.12	.24	4	7.70	6.84			

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
72	176	248	319.90	-1.93	317.97	1.22	.95	20.73	40.36	18.27	-21.92	-12.42		2.61	.22	4	7.72	6.86			
72	178	250	336.60	-3.27	333.33	1.13	.79	21.01	40.93	18.65	-22.27	-12.85		2.13	.20	4	7.75	6.87			
72	180	252	353.53	-4.71	348.82	1.06	.65	21.30	41.51	19.01	-22.64	-13.28		1.72	.18	4	7.77	6.89			
72	182	254	370.71	-6.24	364.47	.99	.50	21.58	42.07	19.37	-22.98	-13.71		1.37	.18	4	7.80	6.90			
72	184	256	388.13	-7.86	380.27	.91	.35	21.85	42.62	19.74	-25.07	-14.12		1.06	.16	4	7.82	6.91			

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73	75	148	7.83	.29	8.12	13.05	28.00	-2.44	-2.82	-13.53	16.07	5.09		19.26	.34	4	6.16	6.18			
73	76	149	1.94	-.30	1.64	14.54	27.60	-2.30	-2.22	-14.89	13.74	4.45		19.85	.34	4	6.18	6.18			
73	77	150	-2.01	-.92	-2.93	12.65	27.19	-1.88	-1.66	-12.58	15.09	3.93		20.42	.36	4	6.20	6.19			
73	78	151	-7.40	-1.60	-9.00	14.14	26.78	-1.73	-1.11	-13.94	12.79	3.74		20.99	.36	4	6.22	6.20			
73	79	152	-10.86	-2.32	-13.18	12.25	26.39	-1.32	-.55	-11.65	14.14	3.57		21.54	.36	4	6.24	6.21			
73	80	153	-15.76	-3.08	-18.84	13.73	25.99	-1.19	-.02	-13.00	11.87	3.42		22.06	.36	4	6.26	6.21			
73	81	154	-18.76	-3.88	-22.64	11.87	25.61	-.78	.53	-10.73	13.21	3.25		22.55	.36	4	6.28	6.22			
73	82	155	-23.20	-4.73	-27.93	13.36	25.23	-.63	1.07	-12.08	9.11	3.08		23.01	.36	4	6.30	6.23			
73	83	156	-25.74	-3.78	-29.52	9.67	23.02	-.23	1.62	-8.00	10.46	4.74		23.46	.38	4	6.32	6.23			
73	84	157	-29.72	-2.89	-32.61	11.16	20.83	-.09	2.17	-9.35	8.24	6.40		23.89	.38	4	6.34	6.24			
73	85	158	-31.83	-2.05	-33.88	9.34	20.51	.32	2.72	-7.13	9.58	6.17		24.05	.34	3	6.35	6.25			
73	86	159	-35.37	-1.27	-36.64	10.83	20.17	.46	3.25	-8.48	7.38	5.96		24.39	.34	3	6.37	6.25			
73	87	160	-37.05	-.54	-37.59	9.02	19.86	.86	3.79	-6.28	8.73	5.73		24.97	.36	3	6.39	6.26			
73	88	161	-40.17	.14	-40.03	10.52	19.53	1.00	4.32	-7.63	6.61	5.51		25.29	.36	3	6.41	6.27			
73	89	162	-41.44	.76	-40.68	8.72	19.23	1.33	4.58	-5.45	8.36	5.27		25.59	.36	3	6.43	6.27			
73	90	163	-44.15	1.16	-42.99	10.38	19.10	1.24	4.76	-6.97	6.53	4.88	.09	25.87	.36	3	6.45	6.28	-41.52	2.63	1.47
73	91	164	-45.02	1.25	-43.77	8.86	19.23	1.54	5.16	-5.24	7.98	4.48	.12	26.13	.36	3	6.46	6.29	-42.46	2.56	1.31
73	92	165	-47.33	1.23	-46.10	10.40	19.26	1.64	5.61	-6.84	5.83	4.28	.14	26.36	.36	3	6.48	6.29	-44.88	2.45	1.22
73	93	166	-47.81	1.17	-46.64	8.62	19.01	1.99	6.08	-4.76	7.17	4.13	.15	26.58	.36	3	6.50	6.30	-45.61	2.20	1.03
73	94	167	-49.73	1.09	-48.64	10.07	18.69	2.12	6.57	-6.12	5.00	4.00	.15	26.77	.36	3	6.52	6.31	-47.80	1.93	.84
73	95	168	-49.85	1.01	-48.84	8.27	18.34	2.49	7.07	-3.97	6.29	3.87	.16	26.94	.36	3	6.54	6.31	-48.19	1.66	.65
73	96	169	-51.39	.93	-50.46	9.69	17.97	2.61	7.56	-5.28	4.13	3.76	.16	27.10	.36	3	6.55	6.32	-50.10	1.29	.36
73	97	170	-51.14	.86	-50.28	7.89	17.59	2.98	8.05	-3.12	5.42	3.64	.16	27.39	.38	3	6.57	6.33	-50.10	1.04	.18
73	98	171	-52.32	.80	-51.52	9.31	17.21	3.11	8.53	-4.42	3.27	3.54	.17	27.51	.38	3	6.59	6.33	-51.59	.73	-.07
73	99	172	-51.72	.75	-50.97	7.52	16.83	3.47	9.03	-2.27	4.56	3.42	.17	27.62	.38	3	6.61	6.34	-51.34	.38	-.37
73	100	173	-52.54	.71	-51.83	8.93	16.45	3.59	9.51	-3.55	2.42	3.31	.17	27.70	.38	3	6.62	6.35	-52.35	.19	-.52
73	101	174	-51.61	.68	-50.93	7.16	16.10	3.97	10.01	-1.43	3.69	3.17	.17	27.77	.38	3	6.64	6.35	-51.76	-.15	-.83
73	102	175	-52.09	.67	-51.42	8.57	15.73	4.09	10.48	-2.71	1.57	3.06	.17	27.82	.38	3	6.66	6.36	-52.34	-.25	-.92
73	103	176	-50.82	.67	-50.15	6.81	15.37	4.45	10.97	-.59	2.85	2.93	.17	27.85	.38	3	6.67	6.37	-51.46	-.64	-1.31
73	104	177	-50.96	.68	-50.28	8.20	15.00	4.57	11.43	-1.87	.75	2.81	.17	27.87	.38	3	6.69	6.37	-51.71	-.75	-1.43
73	105	178	-49.37	.70	-48.67	6.45	14.66	4.93	11.92	.23	2.03	2.67	.17	27.87	.38	3	6.71	6.38	-50.51	-1.14	-1.84
73	106	179	-49.20	.74	-48.46	7.86	14.32	5.06	12.39	-1.05	-.07	2.54	.16	27.85	.38	3	6.72	6.39	-50.33	-1.13	-1.87
73	107	180	-47.30	.78	-46.52	6.13	13.99	5.41	12.88	1.02	1.20	2.38	.16	27.82	.38	3	6.74	6.40	-48.84	-1.54	-2.32
73	108	181	-46.81	.84	-45.97	7.53	13.65	5.54	13.34	-.25	-.86	2.25	.16	27.77	.38	3	6.76	6.40	-48.41	-1.60	-2.44
73	109	182	-44.60	.90	-43.70	5.80	13.33	5.88	13.81	1.82	.42	2.10	.16	27.70	.38	3	6.77	6.41	-46.40	-1.80	-2.70
73	110	183	-43.81	.96	-42.85	7.21	13.02	6.02	14.29	.53	-1.65	1.93	.15	27.62	.38	3	6.79	6.42	-45.26	-1.45	-2.41
73	111	184	-41.31	1.03	-40.28	5.51	12.72	6.37	14.77	2.59	-.36	1.76	.15	27.67	.40	3	6.81	6.42	-42.64	-1.33	-2.36
73	112	185	-40.21	1.09	-39.12	6.92	12.42	6.49	15.23	1.32	-2.39	1.59	.14	27.56	.40	3	6.82	6.43	-41.38	-1.17	-2.26
73	113	186	-37.43	1.13	-36.30	5.25	12.17	6.86	15.73	3.34	-1.10	1.37	.13	27.44	.40	3	6.84	6.44	-38.58	-1.15	-2.28
73	114	187	-36.05	1.12	-34.93	6.70	11.95	7.02	16.24	2.05	-3.09	1.11	.11	27.30	.40	3	6.85	6.44			
73	115	188	-32.99	1.00	-31.99	5.13	11.83	7.45	16.83	4.03	-1.74	.73	.08	27.15	.40	3	6.87	6.45			
73	116	189	-31.33	.58	-30.75	6.83	11.96	7.79	17.62	2.66	-3.63	.09		26.99	.40	3	6.88	6.46			
73	117	190	-28.00	.02	-27.98	5.30	12.13	8.14	18.26	4.61	-2.31	-.67		26.81	.40	3	6.90	6.46			
73	118	191	-26.06	-.57	-26.63	6.72	12.02	8.25	18.68	3.29	-4.26	-1.34		26.62	.40	3	6.92	6.47			
73	119	192	-22.47	-1.19	-23.66	5.10	11.83	8.57	19.11	5.23	-2.94	-1.78		26.42	.40	3	6.93	6.48			
73	120	193	-20.27	-1.84	-22.11	6.52	11.62	8.68	19.53	3.92	-4.87	-2.01		26.21	.40	3	6.95	6.48			
73	121	194	-16.43	-2.53	-18.96	4.92	11.45	9.00	19.96	5.84	-3.56	-2.26		25.98	.40	3	6.96	6.49			
73	122	195	-13.97	-3.25	-17.22	6.34	11.25	9.11	20.38	4.52	-5.48	-2.48		25.74	.40	3	6.98	6.50			
73	123	196	-9.87	-4.00	-13.87	4.72	11.06	9.41	20.79	6.44	-4.16	-2.72		25.49	.40	3	6.99	6.51			
73	124	197	-7.17	-4.78	-11.95	6.15	10.88	9.53	21.20	5.12	-6.07	-2.95		25.22	.40	3	7.01	6.51			
73	125	198	-2.83	-5.59	-8.42	4.55	10.69	9.83	21.61	7.03	-4.75	-3.19		24.95	.40	3	7.02	6.52			
73	126	199	.12	-6.44	-6.32	5.97	10.52	9.94	22.02	5.71	-8.48	-3.42		24.66	.40	3	7.04	6.53			
73	127	200	4.69	-5.50	-.81	2.56	8.53	10.25	22.44	9.41	-7.16	-1.85		24.36	.40	3	7.05	6.53			
73	128	201	7.88	-4.60	3.28	3.99	6.55	10.36	22.85	8.10	-9.03	-.27		24.05	.40	3	7.07	6.54			
73	129	202	12.68	-3.74	8.94	2.42	6.40	10.66	23.26	9.97	-7.72	-.54		23.74	.40	3	7.08	6.55			
73	130	203	16.10	-2.92	13.18	3.84	6.25	10.77	23.66	8.66	-9.58	-.80		23.41	.40	3	7.10	6.55			
73	131	204	21.13	-2.15	18.98	2.27	6.11	11.07	24.06	10.52	-8.26	-1.06		23.07	.40	3	7.11	6.56			
73	132	205	24.77	-1.41	23.36	3.69	5.96	11.17	24.46	9.21	-10.12	-1.33		22.72	.40	3	7.13	6.57			
73	133	206	30.01	-.72	29.29	2.14	5.83	11.47	24.87	11.05	-8.81	-1.60		22.36	.40	3	7.14	6.57			
73	134	207	33.88	-.06	33.82	3.55	5.69	11.57	25.26	9.75	-10.56	-1.85		21.99	.40	3	7.16	6.58			
73	135	208	39.33	.56	39.89	2.00	5.55	11.77	25.33	11.58	-8.74	-2.12		21.61	.40	3	7.17	6.59			
73	136	209	43.41	.87	44.28	3.68	5.68	11.64	25.38	10.00	-10.21	-2.64	.10	21.22	.40	3	7.19	6.60			
73	137	210	49.06	.85	49.91	2.43	6.12	11.87	25.67	11.29	-8.83	-3.16	.13	20.83	.40	3	7.20	6.60			
73	138	211	53.35	.75	54.10	3.89	6.32	11.93	25.99	9.79	-10.62	-3.41	.14	20.42	.40	3	7.22	6.61			
73	139	212	59.21	.60	59.81	2.36	6.25	12.20	26.35	11.54	-9.33	-3.62	.15	20.01	.40	3	7.23	6.62			
73	140	213	63.70	.45	64.15	3.73	6.09	12.28	26.70	10.24	-11.16	-3.79	.16	19.58	.40	3	7.24	6.62			
73	141	214	69.75	.29	70.04	2.18	5.91	12.56	27.06	12.05	-9.90	-3.96	.16	18.97	.38	3	7.26	6.63			
73	142	215	74.44	.14	74.58	3.53	5.71	12.65	27.42	10.79	-11.72	-4.12	.17	18.53	.38	3	7.27	6.64			
73	143	216	80.68	-.01	80.67	1.98	5.51	12.92	27.79	12.61	-10.47	-4.28	.17	18.09	.38	3	7.29	6.64			
73	144	217	85.56	-.15	85.41	3.33	5.31	13.02	28.15	11.34	-12.30	-4.44	.17	17.63	.38	3	7.30	6.65			
73	145	218	91.99	-.28	91.71	1.77	5.10	13.29	28.51	13.16	-11.04	-4.59	.17	17.17	.38	3	7.31	6.66			
73	146	219	97.06	-.40	96.66	3.12	4.90	13.38	28.87	11.91	-12.86	-4.75	.17	16.70	.38	3	7.33	6.66			
73	147	220	103.67	-.50	103.17	1.57	4.68	13.64	29.22	13.73	-11.60	-4.90	.17	16.22	.38	3	7.34	6.67			
73	148	221	108.92	-.60	108.32	2.91	4.49	13.74	29.58	12.47	-13.42	-5.06	.17	15.73	.38	3	7.36	6.68			
73	149	222	115.70	-.68	115.02	1.38	4.29	14.01	29.94	14.27	-12.18	-5.21	.18	15.24	.38	3	7.37	6.69			
73	150	223	121.14	-.75	120.39	2.70	4.08	14.09	30.28	13.03	-13.97	-5.36	.18	14.74	.38	3	7.38	6.69			
73	151	224	128.09	-.80	127.29	1.18	3.88	14.36	30.63	14.82	-12.72	-5.51	.18	14.24	.38	3	7.40	6.70			
73	152	225	133.70	-.85	132.85	2.51	3.69	14.45	30.98	13.57	-14.51	-5.67	.18	13.72	.38	3	7.41	6.71			
73	153	226	140.82	-.88	139.94	.99	3.49	14.71	31.33	15.35	-13.27	-5.83	.18	13.21	.38	3	7.43	6.71			
73	154	227	146.61	-.90	145.71	2.30	3.29	14.79	31.66	14.12	-15.04	-5.97	.18	12.68	.38	3	7.44	6.72			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
73	155	228	153.89	-.90	152.99	.79	3.10	15.05	32.00	15.89	-13.80	-6.12	.18	12.15	.38	3	7.45	6.73			
73	156	229	159.84	-.89	158.95	2.12	2.90	15.13	32.33	14.65	-15.56	-6.27	.18	11.61	.38	3	7.47	6.74			
73	157	230	167.28	-.88	166.40	.61	2.73	15.39	32.68	16.40	-14.33	-6.44	.18	10.88	.36	3	7.48	6.74			
73	158	231	173.40	-.85	172.55	1.92	2.54	15.47	33.01	15.17	-16.08	-6.58	.18	10.34	.36	3	7.49	6.75			
73	159	232	180.99	-.80	180.19	.43	2.36	15.73	33.35	16.92	-14.85	-6.74	.17	9.78	.36	3	7.51	6.76			
73	160	233	187.27	-.75	186.52	1.74	2.17	15.80	33.67	15.69	-16.59	-6.89	.17	9.23	.36	3	7.52	6.76			
73	161	234	195.02	-.68	194.34	.25	1.99	16.06	34.00	17.43	-15.35	-7.04	.17	8.67	.36	3	7.53	6.77			
73	162	235	201.44	-.60	200.84	1.57	1.82	16.14	34.33	16.19	-17.09	-7.20	.17	8.10	.36	3	7.55	6.78			
73	163	236	209.34	-.51	208.83	.09	1.65	16.39	34.65	17.93	-15.86	-7.36	.17	7.53	.36	3	7.56	6.78			
73	164	237	215.92	-.41	215.51	1.39	1.47	16.47	34.98	16.70	-17.58	-7.51	.17	6.69	.30	4	7.57	6.79			
73	166	239	230.69	-.18	230.51	1.23	1.14	16.79	35.62	17.19	-18.06	-7.82	.17	5.83	.28	4	7.60	6.81			
73	168	241	245.75	.08	245.83	1.06	.82	17.12	36.26	17.67	-18.54	-8.15	.16	5.04	.26	4	7.62	6.82			
73	170	243	261.09	.34	261.43	.93	.54	17.46	36.92	18.14	-18.98	-8.51	.14	4.34	.26	4	7.65	6.83			
73	172	245	276.70	.15	276.85	1.17	.72	18.09	37.97	18.39	-19.15	-9.35		3.72	.24	4	7.68	6.85			
73	173	246	285.29	-.40	284.89	.03	1.21	18.41	38.61	20.04	-17.89	-10.22		3.42	.24	4	7.69	6.85			
73	174	247	292.57	-.99	291.58	1.37	1.41	18.48	38.92	18.76	-19.54	-11.08		3.14	.22	4	7.70	6.86			
73	176	249	308.71	-2.23	306.48	1.29	1.25	18.78	39.51	19.14	-19.91	-11.87		2.63	.22	4	7.73	6.88			
73	178	251	325.11	-3.56	321.55	1.20	1.08	19.07	40.08	19.52	-20.26	-12.29		2.17	.20	4	7.75	6.89			
73	180	253	341.75	-4.99	336.76	1.12	.93	19.36	40.65	19.89	-20.63	-12.71		1.77	.18	4	7.78	6.90			
73	182	255	358.64	-6.52	352.12	1.04	.78	19.64	41.22	20.24	-20.99	-13.14		1.43	.18	4	7.80	6.92			
73	184	257	375.77	-8.13	367.64	.97	.63	19.92	41.77	20.60	-23.08	-13.55		1.11	.16	4	7.83	6.93			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
74	72	146	34.07	1.04	35.11	15.85	30.00	-2.63	-6.89	-20.28	15.13	6.51	.11	15.27	.32	4	6.11	6.18			
74	73	147	28.55	.82	29.37	13.81	29.70	-2.10	-5.65	-17.84	16.28	6.16		15.91	.32	4	6.13	6.19			
74	74	148	21.32	.34	21.66	15.78	29.60	-1.28	-4.29	-19.17	13.55	5.59		16.54	.34	4	6.15	6.19			
74	75	149	16.72	-.19	16.53	13.20	28.98	-1.12	-3.57	-16.45	14.89	4.97		17.19	.34	4	6.17	6.20			
74	76	150	10.42	-.77	9.65	14.95	28.15	-.72	-3.02	-17.58	12.58	4.43		17.81	.34	4	6.19	6.21			
74	77	151	6.33	-1.39	4.94	12.79	27.74	-.58	-2.46	-15.07	13.93	4.13		18.41	.34	4	6.21	6.22			
74	78	152	.54	-2.06	-1.52	14.53	27.32	-.18	-1.92	-16.41	11.65	4.00		18.97	.34	4	6.23	6.22			
74	79	153	-3.07	-2.77	-5.84	12.39	26.92	-.04	-1.37	-14.12	13.00	3.83		19.51	.34	4	6.25	6.23			
74	80	154	-8.38	-3.53	-11.91	14.14	26.53	.36	-.83	-15.47	10.73	3.69		20.03	.34	4	6.27	6.24			
74	81	155	-11.52	-4.33	-15.85	12.01	26.15	.50	-.28	-13.20	12.07	3.51		20.53	.36	4	6.29	6.24			
74	82	156	-16.35	-5.17	-21.52	13.75	25.75	.88	.25	-14.53	8.00	3.37		21.02	.36	4	6.31	6.25			
74	83	157	-19.04	-4.22	-23.26	9.81	23.56	1.04	.80	-10.46	9.35	5.02		21.49	.36	4	6.33	6.26			
74	84	158	-23.41	-3.33	-26.74	11.55	21.36	1.42	1.34	-11.80	7.14	6.69		21.93	.36	4	6.34	6.26			
74	85	159	-25.66	-2.50	-28.16	9.48	21.04	1.57	1.89	-9.59	8.48	6.45		22.35	.36	4	6.36	6.27			
74	86	160	-29.59	-1.72	-31.31	11.22	20.71	1.96	2.42	-10.93	6.28	6.25		22.74	.36	4	6.38	6.28			
74	87	161	-31.41	-.99	-32.40	9.16	20.39	2.10	2.96	-8.72	7.63	6.02		23.12	.38	4	6.40	6.28			
74	88	162	-34.91	-.32	-35.23	10.90	20.06	2.48	3.49	-10.07	5.45	5.81		23.28	.34	3	6.42	6.29			
74	89	163	-36.32	.31	-36.01	8.86	19.75	2.62	3.95	-7.88	6.98	5.58		23.58	.34	3	6.44	6.30			
74	90	164	-39.41	.88	-38.53	10.59	19.44	2.83	4.07	-9.22	5.24	5.37		23.86	.34	3	6.45	6.30			
74	91	165	-40.42	1.16	-39.26	8.80	19.39	2.78	4.32	-7.30	6.83	4.95	.10	24.13	.34	3	6.47	6.31	-37.78	2.64	1.48
74	92	166	-43.10	1.22	-41.88	10.70	19.50	3.08	4.71	-9.05	4.76	4.73	.13	24.63	.36	3	6.49	6.32	-40.61	2.49	1.27
74	93	167	-43.72	1.20	-42.52	8.72	19.41	3.17	5.16	-7.10	6.12	4.57	.14	24.87	.36	3	6.51	6.32	-41.40	2.32	1.12
74	94	168	-46.01	1.14	-44.87	10.42	19.13	3.52	5.64	-8.50	3.96	4.45	.15	25.08	.36	3	6.53	6.33	-43.99	2.02	.88
74	95	169	-46.26	1.08	-45.18	8.39	18.80	3.64	6.12	-6.38	5.28	4.33	.15	25.28	.36	3	6.54	6.34	-44.30	1.96	.88
74	96	170	-48.16	1.01	-47.15	10.04	18.43	3.99	6.60	-7.68	3.13	4.24	.16	25.46	.36	3	6.56	6.34	-46.60	1.56	.55
74	97	171	-48.05	.94	-47.11	8.02	18.07	4.12	7.10	-5.55	4.41	4.10	.16	25.62	.36	3	6.58	6.35	-46.59	1.46	.52
74	98	172	-49.59	.89	-48.70	9.67	17.69	4.47	7.58	-6.83	2.27	4.01	.16	25.76	.36	3	6.60	6.36	-48.54	1.05	.16
74	99	173	-49.12	.84	-48.28	7.65	17.32	4.60	8.07	-4.69	3.56	3.88	.16	25.88	.36	3	6.61	6.36	-48.35	.77	-.07
74	100	174	-50.30	.80	-49.50	9.29	16.94	4.95	8.55	-5.97	1.42	3.78	.16	25.98	.36	3	6.63	6.37	-49.86	.44	-.36
74	101	175	-49.49	.78	-48.71	7.29	16.57	5.08	9.04	-3.84	2.71	3.65	.17	26.06	.36	3	6.65	6.38	-49.34	.15	-.63
74	102	176	-50.32	.76	-49.56	8.92	16.21	5.43	9.52	-5.12	.59	3.54	.16	26.13	.36	3	6.66	6.38	-50.46	-.14	-.90
74	103	177	-49.18	.76	-48.42	6.93	15.85	5.56	10.01	-3.00	1.87	3.41	.16	26.18	.36	3	6.68	6.39	-49.71	-.53	-1.29
74	104	178	-49.67	.77	-48.90	8.55	15.49	5.90	10.48	-4.27	-.23	3.29	.16	26.38	.38	3	6.70	6.40	-50.42	-.75	-1.52
74	105	179	-48.21	.80	-47.41	6.59	15.14	6.03	10.96	-2.17	1.05	3.16	.16	26.40	.38	3	6.71	6.40	-49.23	-1.02	-1.82
74	106	180	-48.37	.83	-47.54	8.20	14.79	6.37	11.42	-3.43	-1.03	3.04	.16	26.40	.38	3	6.73	6.41	-49.65	-1.28	-2.11
74	107	181	-46.59	.87	-45.72	6.25	14.45	6.49	11.90	-1.35	.25	2.89	.16	26.39	.38	3	6.75	6.42	-48.23	-1.64	-2.51
74	108	182	-46.44	.92	-45.52	7.87	14.12	6.84	12.37	-2.62	-1.82	2.75	.16	26.36	.38	3	6.76	6.42	-48.21	-1.77	-2.69
74	109	183	-44.36	.98	-43.38	5.93	13.80	6.97	12.85	-.55	-.54	2.59	.15	26.32	.38	3	6.78	6.43	-46.33	-1.97	-2.95
74	110	184	-43.90	1.03	-42.87	7.55	13.49	7.32	13.33	-1.82	-2.59	2.43	.15	26.26	.38	3	6.80	6.44	-45.67	-1.77	-2.80
74	111	185	-41.52	1.08	-40.44	5.64	13.20	7.45	13.82	.23	-1.31	2.24	.14	26.19	.38	3	6.81	6.44	-43.34	-1.82	-2.90
74	112	186	-40.76	1.12	-39.64	7.28	12.92	7.81	14.30	-1.03	-3.34	2.05	.13	26.10	.38	3	6.83	6.45	-42.48	-1.72	-2.84
74	113	187	-38.09	1.11	-36.98	5.40	12.69	7.96	14.83	1.00	-2.05	1.80	.12	26.00	.38	3	6.85	6.46	-39.87	-1.78	-2.89
74	114	188	-37.04	1.02	-36.02	7.11	12.52	8.38	15.40	-.29	-4.03	1.47	.09	25.88	.38	3	6.86	6.46	-38.63	-1.59	-2.61
74	115	189	-34.10	.68	-33.42	5.47	12.58	8.71	16.16	1.68	-2.67	.89		25.75	.38	3	6.88	6.47	-35.44	-1.34	-2.02
74	116	190	-32.76	.17	-32.59	7.25	12.71	9.13	16.91	.38	-4.61	.19		25.60	.38	3	6.89	6.48			
74	117	191	-29.54	-.38	-29.92	5.40	12.65	9.24	17.37	2.34	-3.29	-.51		25.44	.38	3	6.91	6.49			
74	118	192	-27.93	-.97	-28.90	7.04	12.45	9.56	17.81	1.02	-5.24	-1.07		25.27	.38	3	6.92	6.49			
74	119	193	-24.45	-1.58	-26.03	5.21	12.25	9.66	18.23	2.97	-3.92	-1.33		25.09	.38	3	6.94	6.50			
74	120	194	-22.56	-2.23	-24.79	6.83	12.04	9.97	18.65	1.66	-5.84	-1.55		24.89	.38	3	6.96	6.51			
74	121	195	-18.83	-2.92	-21.75	5.02	11.86	10.08	19.09	3.58	-4.54	-1.80		24.68	.38	3	6.97	6.51			
74	122	196	-16.68	-3.63	-20.31	6.64	11.66	10.39	19.49	2.28	-6.44	-2.01		24.45	.38	3	6.99	6.52			
74	123	197	-12.70	-4.38	-17.08	4.84	11.48	10.50	19.92	4.19	-5.14	-2.26		24.22	.38	3	7.00	6.53			
74	124	198	-10.30	-5.16	-15.46	6.45	11.29	10.80	20.33	2.88	-7.04	-2.49		23.97	.38	3	7.02	6.53			
74	125	199	-6.07	-5.97	-12.04	4.66	11.11	10.90	20.74	4.78	-5.73	-2.72		23.72	.38	3	7.03	6.54			
74	126	200	-3.42	-6.81	-10.23	6.26	10.92	11.20	21.14	3.48	-9.43	-2.94		23.45	.38	3	7.05	6.55			
74	127	201	1.05	-5.87	-4.82	2.67	8.93	11.31	21.55	7.19	-8.11	-1.37		23.17	.38	3	7.06	6.55			
74	128	202	3.94	-4.97	-1.03	4.28	6.95	11.61	21.96	5.88	-9.97	.21		22.87	.38	3	7.08	6.56			
74	129	203	8.63	-4.12	4.51	2.52	6.81	11.72	22.38	7.74	-8.67	-.07		22.57	.38	3	7.09	6.57			
74	130	204	11.76	-3.30	8.46	4.13	6.65	12.01	22.78	6.45	-10.52	-.32		22.26	.38	3	7.11	6.57			
74	131	205	16.68	-2.53	14.15	2.37	6.51	12.11	23.19	8.31	-9.21	-.59		21.94	.38	3	7.12	6.58			
74	132	206	20.03	-1.79	18.24	3.98	6.36	12.41	23.58	7.00	-11.06	-.84		21.60	.38	3	7.14	6.59			
74	133	207	25.17	-1.10	24.07	2.24	6.22	12.51	23.99	8.85	-9.75	-1.11		21.26	.38	3	7.15	6.60			
74	134	208	28.75	-.44	28.31	3.83	6.07	12.80	24.37	7.55	-11.58	-1.36		20.91	.38	3	7.17	6.60			
74	135	209	34.10	.18	34.28	2.10	5.94	12.90	24.67	9.39	-10.00	-1.62		20.54	.38	3	7.18	6.61			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
74	136	210	37.89	.73	38.62	3.72	5.83	12.94	24.59	8.06	-11.29	-1.91	.06	20.17	.38	3	7.19	6.62			
74	137	211	43.45	.87	44.32	2.38	6.10	12.89	24.75	9.48	-9.78	-2.48	.12	19.79	.38	3	7.21	6.62			
74	138	212	47.45	.81	48.26	4.12	6.51	13.12	25.06	7.71	-11.55	-2.79	.13	19.40	.38	3	7.22	6.63			
74	139	213	53.21	.70	53.91	2.43	6.55	13.19	25.39	9.39	-10.24	-3.01	.14	19.00	.38	3	7.24	6.64			
74	140	214	57.43	.56	57.99	3.99	6.42	13.45	25.73	8.06	-12.05	-3.17	.15	18.60	.38	3	7.25	6.64			
74	141	215	63.38	.41	63.79	2.27	6.26	13.54	26.10	9.86	-10.79	-3.36	.16	18.18	.38	3	7.27	6.65			
74	142	216	67.80	.27	68.07	3.80	6.06	13.80	26.44	8.60	-12.60	-3.50	.16	17.76	.38	3	7.28	6.66			
74	143	217	73.94	.12	74.06	2.07	5.88	13.89	26.82	10.40	-11.35	-3.68	.17	17.32	.38	3	7.29	6.66			
74	144	218	78.56	-.01	78.55	3.59	5.66	14.15	27.17	9.16	-13.16	-3.81	.17	16.88	.38	3	7.31	6.67			
74	145	219	84.89	-.14	84.75	1.86	5.46	14.24	27.54	10.97	-11.92	-3.98	.17	16.44	.38	3	7.32	6.68			
74	146	220	89.69	-.25	89.44	3.38	5.25	14.51	27.89	9.73	-13.72	-4.12	.17	15.98	.38	3	7.34	6.69			
74	147	221	96.21	-.35	95.86	1.66	5.04	14.60	28.24	11.54	-12.47	-4.27	.17	15.52	.38	3	7.35	6.69			
74	148	222	101.20	-.45	100.75	3.17	4.84	14.86	28.60	10.30	-14.28	-4.43	.17	15.05	.38	3	7.36	6.70			
74	149	223	107.89	-.53	107.36	1.46	4.64	14.95	28.96	12.09	-13.03	-4.59	.17	14.57	.38	3	7.38	6.71			
74	150	224	113.06	-.59	112.47	2.97	4.43	15.22	29.30	10.86	-14.82	-4.73	.17	14.08	.38	3	7.39	6.71			
74	151	225	119.93	-.65	119.28	1.26	4.23	15.30	29.66	12.65	-13.58	-4.89	.17	13.59	.38	3	7.40	6.72			
74	152	226	125.28	-.69	124.59	2.76	4.02	15.56	30.00	11.42	-15.36	-5.03	.17	12.91	.36	3	7.42	6.73			
74	153	227	132.32	-.72	131.60	1.06	3.82	15.64	30.34	13.20	-14.11	-5.18	.17	12.41	.36	3	7.43	6.73			
74	154	228	137.84	-.74	137.10	2.57	3.63	15.90	30.69	11.96	-15.89	-5.34	.18	11.90	.36	3	7.45	6.74			
74	155	229	145.04	-.75	144.29	.88	3.45	15.98	31.04	13.73	-14.66	-5.50	.18	11.38	.36	3	7.46	6.75			
74	156	230	150.74	-.74	150.00	2.37	3.25	16.23	31.37	12.51	-16.41	-5.64	.18	10.86	.36	3	7.47	6.75			
74	157	231	158.10	-.72	157.38	.69	3.06	16.32	31.71	14.27	-15.17	-5.79	.17	10.34	.36	3	7.49	6.76			
74	158	232	163.96	-.69	163.27	2.18	2.87	16.57	32.04	13.04	-16.92	-5.94	.17	9.81	.36	3	7.50	6.77			
74	159	233	171.48	-.65	170.83	.51	2.69	16.65	32.38	14.79	-15.69	-6.10	.17	9.27	.36	3	7.51	6.78			
74	160	234	177.50	-.59	176.91	1.99	2.50	16.90	32.70	13.56	-17.43	-6.25	.17	8.72	.36	3	7.53	6.78			
74	161	235	185.17	-.53	184.64	.34	2.33	16.98	33.04	15.30	-16.20	-6.41	.17	8.18	.36	3	7.54	6.79			
74	162	236	191.35	-.45	190.90	1.81	2.15	17.23	33.37	14.07	-17.93	-6.56	.17	7.62	.36	3	7.55	6.80			
74	163	237	199.17	-.36	198.81	.17	1.98	17.31	33.70	15.81	-16.70	-6.72	.17	6.89	.30	4	7.57	6.80			
74	164	238	205.51	-.26	205.25	1.64	1.80	17.55	34.02	14.59	-18.41	-6.87	.17	6.45	.28	4	7.58	6.81			
74	166	240	219.96	-.04	219.92	1.47	1.47	17.88	34.67	15.08	-18.90	-7.19	.16	5.67	.28	4	7.61	6.82			
74	168	242	234.71	.21	234.92	1.31	1.15	18.20	35.32	15.58	-19.37	-7.52	.15	4.95	.26	4	7.63	6.84			
74	170	244	249.74	.42	250.16	1.20	.90	18.56	36.01	16.06	-19.79	-7.92	.13	4.27	.24	4	7.66	6.85			
74	172	246	265.04	-.19	264.85	1.68	1.45	19.29	37.38	16.36	-20.03	-9.17		3.69	.24	4	7.68	6.87			
74	173	247	273.56	-.74	272.82	.11	1.78	19.35	37.76	18.01	-18.77	-10.02		3.40	.24	4	7.70	6.87			
74	174	248	280.62	-1.32	279.30	1.59	1.70	19.58	38.05	16.76	-20.40	-10.78		3.14	.22	4	7.71	6.88			
74	175	249	289.27	-1.93	287.34	.03	1.62	19.65	38.36	18.39	-19.15	-11.09		2.89	.22	4	7.72	6.89			
74	176	250	296.46	-2.56	293.90	1.51	1.54	19.87	38.65	17.14	-20.78	-11.30		2.64	.22	4	7.73	6.89			
74	178	252	312.56	-3.89	308.67	1.43	1.38	20.16	39.23	17.51	-21.14	-11.73		2.20	.20	4	7.76	6.91			
74	180	254	328.92	-5.31	323.61	1.34	1.21	20.44	39.80	17.90	-21.49	-12.14		1.81	.18	4	7.78	6.92			
74	182	256	345.52	-6.83	338.69	1.26	1.06	20.72	40.37	18.26	-21.84	-12.56		1.47	.18	4	7.81	6.94			
74	184	258	362.37	-8.44	353.93	1.18	.90	21.00	40.92	18.63	-23.93	-12.97		1.16	.16	4	7.83	6.95			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
75	77	152	16.80	-1.91	14.89	13.19	28.49	-2.66	-3.24	-13.91	16.42	4.35		16.35	.32	4	6.22	6.24			
75	78	153	10.85	-2.57	8.28	14.68	27.88	-2.52	-2.70	-15.26	14.12	4.21		16.93	.34	4	6.24	6.25			
75	79	154	6.83	-3.28	3.55	12.80	27.48	-2.11	-2.15	-12.99	15.46	4.06		17.50	.34	4	6.26	6.25			
75	80	155	1.38	-4.03	-2.65	14.28	27.08	-1.97	-1.61	-14.32	13.20	3.92		18.04	.34	4	6.28	6.26			
75	81	156	-2.16	-4.82	-6.98	12.41	26.68	-1.57	-1.08	-12.06	14.54	3.77		18.55	.34	4	6.30	6.27			
75	82	157	-7.14	-5.66	-12.80	13.88	26.30	-1.43	-.55	-13.40	10.46	3.62		19.04	.34	4	6.32	6.27			
75	83	158	-10.23	-4.71	-14.94	10.22	24.10	-1.03	.00	-9.34	11.81	5.28		19.51	.34	4	6.33	6.28			
75	84	159	-14.75	-3.83	-18.58	11.70	21.92	-.88	.55	-10.69	9.58	6.92		19.95	.34	4	6.35	6.29			
75	85	160	-17.39	-2.99	-20.38	9.88	21.58	-.49	1.08	-8.47	10.93	6.71		20.38	.36	4	6.37	6.29			
75	86	161	-21.46	-2.21	-23.67	11.36	21.24	-.35	1.61	-9.81	8.73	6.51		20.80	.36	4	6.39	6.30			
75	87	162	-23.68	-1.49	-25.17	9.56	20.93	.05	2.16	-7.63	10.06	6.28		21.20	.36	4	6.41	6.31			
75	88	163	-27.32	-.81	-28.13	11.04	20.60	.19	2.67	-8.96	7.89	6.08		21.57	.36	4	6.43	6.31			
75	89	164	-29.12	-.19	-29.31	9.25	20.29	.58	3.21	-6.80	9.22	5.86		21.92	.36	4	6.45	6.32			
75	90	165	-32.34	.38	-31.96	10.72	19.97	.72	3.55	-8.13	7.30	5.65		22.24	.36	4	6.46	6.33			
75	91	166	-33.73	.90	-32.83	8.95	19.67	.86	3.64	-5.98	9.05	5.43	.04	22.56	.38	4	6.48	6.33			
75	92	167	-36.55	1.13	-35.42	10.66	19.61	.83	3.90	-7.56	7.10	5.14	.10	22.67	.34	3	6.50	6.34	-33.70	2.85	1.72
75	93	168	-37.55	1.19	-36.36	9.02	19.67	1.13	4.30	-5.79	8.51	4.99	.12	22.91	.34	3	6.52	6.35	-34.99	2.56	1.37
75	94	169	-39.97	1.17	-38.80	10.51	19.53	1.22	4.74	-7.34	6.38	4.87	.14	23.14	.34	3	6.54	6.35	-37.50	2.47	1.30
75	95	170	-40.60	1.13	-39.47	8.74	19.25	1.58	5.22	-5.29	7.69	4.75	.15	23.34	.34	3	6.55	6.36	-38.40	2.20	1.07
75	96	171	-42.64	1.08	-41.56	10.17	18.90	1.70	5.68	-6.62	5.54	4.65	.15	23.53	.34	3	6.57	6.37	-40.69	1.95	.87
75	97	172	-42.89	1.02	-41.87	8.38	18.55	2.05	6.17	-4.50	6.83	4.54	.15	23.94	.36	3	6.59	6.37	-41.24	1.65	.63
75	98	173	-44.56	.97	-43.59	9.79	18.17	2.18	6.65	-5.80	4.69	4.44	.16	24.11	.36	3	6.60	6.38	-43.15	1.41	.44
75	99	174	-44.46	.93	-43.53	8.01	17.80	2.54	7.14	-3.68	5.97	4.32	.16	24.25	.36	3	6.62	6.39	-43.46	1.00	.07
75	100	175	-45.77	.90	-44.87	9.42	17.43	2.66	7.61	-4.96	3.84	4.22	.16	24.37	.36	3	6.64	6.39	-45.04	.73	-.17
75	101	176	-45.32	.88	-44.44	7.64	17.06	3.02	8.10	-2.83	5.12	4.11	.16	24.48	.36	3	6.66	6.40	-44.96	.36	-.52
75	102	177	-46.28	.86	-45.42	9.04	16.69	3.15	8.58	-4.12	2.99	3.99	.16	24.57	.36	3	6.67	6.41	-46.11	.17	-.69
75	103	178	-45.49	.86	-44.63	7.28	16.33	3.50	9.06	-2.01	4.27	3.87	.16	24.64	.36	3	6.69	6.41	-45.76	-.27	-1.13
75	104	179	-46.12	.87	-45.25	8.69	15.98	3.64	9.54	-3.29	2.16	3.74	.16	24.70	.36	3	6.71	6.42	-46.54	-.42	-1.29
75	105	180	-45.00	.90	-44.10	6.94	15.61	3.98	10.01	-1.18	3.44	3.62	.16	24.73	.36	3	6.72	6.43	-45.86	-.86	-1.76
75	106	181	-45.30	.92	-44.38	8.34	15.28	4.12	10.50	-2.46	1.34	3.48	.15	24.76	.36	3	6.74	6.43	-46.43	-1.13	-2.05
75	107	182	-43.86	.96	-42.90	6.60	14.94	4.46	10.96	-.37	2.62	3.35	.15	24.76	.36	3	6.76	6.44	-45.35	-1.49	-2.45
75	108	183	-43.84	1.00	-42.84	8.00	14.61	4.60	11.45	-1.65	.54	3.20	.15	24.75	.36	3	6.77	6.45	-45.77	-1.93	-2.93
75	109	184	-42.10	1.05	-41.05	6.29	14.29	4.96	11.93	.42	1.82	3.04	.14	24.72	.36	3	6.79	6.45	-44.06	-1.96	-3.01
75	110	185	-41.76	1.09	-40.67	7.69	13.98	5.09	12.41	-.84	-.23	2.87	.14	24.68	.36	3	6.81	6.46	-43.77	-2.01	-3.10
75	111	186	-39.72	1.11	-38.61	6.01	13.70	5.46	12.91	1.20	1.03	2.67	.13	24.62	.36	3	6.82	6.47	-41.88	-2.16	-3.27
75	112	187	-39.08	1.10	-37.98	7.44	13.45	5.63	13.43	-.06	-1.00	2.44	.11	24.55	.36	3	6.84	6.47	-41.18	-2.10	-3.20
75	113	188	-36.75	1.01	-35.74	5.83	13.28	6.05	14.02	1.98	.28	2.11	.09	24.47	.36	3	6.85	6.48	-38.98	-2.23	-3.24
75	114	189	-35.81	.71	-35.10	7.44	13.27	6.37	14.75	.72	-1.69	1.60		24.54	.38	3	6.87	6.49	-37.94	-2.13	-2.84
75	115	190	-33.20	.23	-32.97	5.94	13.38	6.85	15.56	2.68	-.38	.91		24.43	.38	3	6.88	6.49	-35.49	-2.29	-2.52
75	116	191	-31.98	-.28	-32.26	7.37	13.30	6.96	16.09	1.37	-2.34	.25		24.30	.38	3	6.90	6.50	-34.46	-2.48	-2.20
75	117	192	-29.09	-.83	-29.92	5.73	13.10	7.28	16.52	3.32	-1.03	-.35		24.16	.38	3	6.92	6.51			
75	118	193	-27.59	-1.41	-29.00	7.15	12.89	7.39	16.95	2.01	-2.97	-.67		24.01	.38	3	6.93	6.51			
75	119	194	-24.43	-2.02	-26.45	5.53	12.68	7.71	17.37	3.95	-1.65	-.90		23.85	.38	3	6.95	6.52			
75	120	195	-22.66	-2.67	-25.33	6.95	12.48	7.82	17.80	2.64	-3.59	-1.13		23.67	.38	3	6.96	6.53			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP NEU	RADIUS PRO	EXPERIMENTAL MASS	SHELL	DIFF
75	121	196	-19.24	-3.35	-22.59	5.33	12.28	8.13	18.22	4.56	-2.28	-1.36		23.48	.38	3	6.98	6.53			
75	122	197	-17.21	-4.06	-21.27	6.75	12.08	8.24	18.63	3.25	-4.20	-1.58		23.27	.38	3	6.99	6.54			
75	123	198	-13.54	-4.80	-18.34	5.15	11.89	8.56	19.05	5.17	-2.89	-1.81		23.06	.38	3	7.01	6.55			
75	124	199	-11.25	-5.58	-16.83	6.56	11.71	8.66	19.46	3.85	-4.80	-2.04		22.83	.38	3	7.02	6.55			
75	125	200	-7.33	-6.38	-13.71	4.96	11.51	8.97	19.87	5.76	-3.49	-2.26		22.59	.38	3	7.04	6.56			
75	126	201	-4.79	-7.22	-12.01	6.37	11.33	9.07	20.28	4.45	-7.19	-2.49		22.34	.38	3	7.05	6.57			
75	127	202	-.63	-6.28	-6.91	2.97	9.34	9.38	20.69	8.15	-5.88	-.91		22.08	.38	3	7.07	6.57			
75	128	203	2.15	-5.39	-3.24	4.39	7.38	9.49	21.11	6.83	-7.76	.65		21.80	.38	3	7.08	6.58			
75	129	204	6.54	-4.53	2.01	2.83	7.22	9.80	21.51	8.70	-6.45	.39		21.52	.38	3	7.10	6.59			
75	130	205	9.56	-3.72	5.84	4.24	7.07	9.90	21.92	7.39	-8.31	.13		21.23	.38	3	7.11	6.60			
75	131	206	14.18	-2.94	11.24	2.68	6.91	10.20	22.32	9.26	-7.00	-.13		20.92	.38	3	7.13	6.60			
75	132	207	17.43	-2.21	15.22	4.09	6.77	10.31	22.72	7.95	-8.85	-.39		20.60	.38	3	7.14	6.61			
75	133	208	22.27	-1.52	20.75	2.54	6.63	10.61	23.12	9.79	-7.56	-.65		20.28	.38	3	7.16	6.62			
75	134	209	25.75	-.86	24.89	3.94	6.47	10.71	23.51	8.49	-9.39	-.90		19.94	.38	3	7.17	6.62			
75	135	210	30.80	-.24	30.56	2.40	6.34	11.01	23.91	10.32	-8.06	-1.16		19.60	.38	3	7.19	6.63			
75	136	211	34.50	.34	34.84	3.79	6.19	11.07	24.01	9.03	-9.47	-1.41		19.24	.38	3	7.20	6.64			
75	137	212	39.77	.78	40.55	2.36	6.16	11.05	23.94	10.75	-7.72	-1.76	.08	18.88	.38	3	7.22	6.64			
75	138	213	43.68	.85	44.53	4.09	6.45	11.03	24.15	9.02	-9.38	-2.17	.12	18.50	.38	3	7.23	6.65			
75	139	214	49.15	.78	49.93	2.66	6.76	11.27	24.46	10.42	-8.06	-2.41	.14	18.12	.38	3	7.24	6.66			
75	140	215	53.26	.67	53.93	4.07	6.74	11.35	24.80	9.01	-9.86	-2.59	.15	17.73	.38	3	7.26	6.66			
75	141	216	58.93	.54	59.47	2.54	6.60	11.62	25.15	10.78	-8.59	-2.76	.15	17.33	.38	3	7.27	6.67			
75	142	217	63.26	.40	63.66	3.88	6.42	11.69	25.50	9.50	-10.41	-2.91	.16	16.92	.38	3	7.29	6.68			
75	143	218	69.12	.27	69.39	2.34	6.23	11.97	25.86	11.30	-9.16	-3.07	.16	16.32	.36	3	7.30	6.68			
75	144	219	73.64	.14	73.78	3.68	6.02	12.06	26.21	10.04	-10.97	-3.22	.16	15.89	.36	3	7.32	6.69			
75	145	220	79.70	.02	79.72	2.13	5.81	12.33	26.57	11.86	-9.72	-3.37	.17	15.46	.36	3	7.33	6.70			
75	146	221	84.41	-.10	84.31	3.47	5.61	12.42	26.93	10.60	-11.54	-3.53	.17	15.03	.36	3	7.34	6.70			
75	147	222	90.65	-.20	90.45	1.93	5.41	12.69	27.29	12.40	-10.30	-3.68	.17	14.58	.36	3	7.36	6.71			
75	148	223	95.55	-.29	95.26	3.26	5.20	12.78	27.65	11.16	-12.10	-3.83	.17	14.13	.36	3	7.37	6.72			
75	149	224	101.97	-.36	101.61	1.73	4.99	13.05	27.99	12.96	-10.86	-3.98	.17	13.67	.36	3	7.38	6.73			
75	150	225	107.06	-.43	106.63	3.05	4.78	13.13	28.34	11.73	-12.65	-4.12	.17	13.20	.36	3	7.40	6.73			
75	151	226	113.66	-.48	113.18	1.53	4.57	13.39	28.69	13.52	-11.41	-4.27	.17	12.73	.36	3	7.41	6.74			
75	152	227	118.92	-.53	118.39	2.85	4.38	13.49	29.05	12.27	-13.20	-4.43	.17	12.24	.36	3	7.43	6.75			
75	153	228	125.69	-.56	125.13	1.33	4.19	13.75	29.40	14.05	-11.97	-4.59	.17	11.76	.36	3	7.44	6.75			
75	154	229	131.13	-.57	130.56	2.65	3.98	13.83	29.73	12.82	-13.74	-4.72	.17	11.26	.36	3	7.45	6.76			
75	155	230	138.07	-.58	137.49	1.14	3.79	14.09	30.08	14.59	-12.51	-4.88	.17	10.76	.36	3	7.47	6.77			
75	156	231	143.68	-.57	143.11	2.46	3.59	14.18	30.41	13.36	-14.27	-5.03	.17	10.25	.36	3	7.48	6.77			
75	157	232	150.78	-.55	150.23	.96	3.40	14.44	30.75	15.11	-13.04	-5.18	.17	9.74	.36	3	7.49	6.78			
75	158	233	156.56	-.52	156.04	2.27	3.21	14.52	31.09	13.89	-14.79	-5.33	.17	9.22	.36	3	7.51	6.79			
75	159	234	163.83	-.48	163.35	.76	3.02	14.77	31.42	15.64	-13.56	-5.48	.17	8.70	.36	3	7.52	6.79			
75	160	235	169.77	-.43	169.34	2.07	2.84	14.85	31.76	14.41	-15.31	-5.64	.17	8.16	.36	3	7.53	6.80			
75	161	236	177.19	-.36	176.83	.58	2.66	15.11	32.08	16.15	-14.07	-5.79	.17	7.46	.30	4	7.55	6.81			
75	162	237	183.29	-.28	183.01	1.89	2.48	15.19	32.41	14.93	-15.80	-5.93	.17	7.02	.30	4	7.56	6.82			
75	163	238	190.86	-.20	190.66	.41	2.31	15.44	32.75	16.65	-14.59	-6.10	.17	6.62	.28	4	7.57	6.82			
75	164	239	197.12	-.10	197.02	1.71	2.13	15.52	33.07	15.43	-16.30	-6.25	.16	6.24	.28	4	7.59	6.83			
75	165	240	204.84	0.	204.84	.24	1.96	15.77	33.40	17.14	-15.09	-6.41	.16	5.86	.28	4	7.60	6.84			
75	166	241	211.25	.11	211.36	1.55	1.80	15.85	33.73	15.92	-16.80	-6.57	.16	5.49	.26	4	7.61	6.84			
75	167	242	219.11	.23	219.34	.10	1.64	16.11	34.06	17.63	-15.58	-6.75	.15	5.16	.26	4	7.62	6.85			
75	168	243	225.67	.34	226.01	1.40	1.49	16.20	34.40	16.42	-17.28	-6.92	.14	4.83	.26	4	7.64	6.86			
75	170	245	240.38	.40	240.78	1.39	1.37	16.66	35.22	16.86	-17.68	-7.47	.08	4.21	.24	4	7.66	6.87			
75	171	246	248.53	-.04	248.49	.37	1.76	17.26	36.04	18.49	-16.36	-8.22		3.92	.24	4	7.68	6.88			
75	172	247	255.38	-.57	254.81	1.75	2.12	17.33	36.62	17.23	-18.01	-9.04		3.63	.24	4	7.69	6.88			
75	173	248	263.66	-1.12	262.54	.34	2.10	17.56	36.92	18.87	-16.76	-9.84		3.36	.22	4	7.70	6.89			
75	174	249	270.65	-1.70	268.95	1.66	2.01	17.63	37.21	17.62	-18.39	-10.32		3.12	.22	4	7.71	6.90			
75	175	250	279.06	-2.30	276.76	.26	1.93	17.87	37.52	19.25	-17.14	-10.55		2.87	.22	4	7.73	6.91			
75	176	251	286.19	-2.92	283.27	1.57	1.83	17.93	37.79	18.02	-18.76	-10.74		2.63	.22	4	7.74	6.91			
75	177	252	294.73	-3.58	291.15	.18	1.76	18.16	38.10	19.63	-17.52	-10.97		2.42	.20	4	7.75	6.92			
75	178	253	301.99	-4.25	297.74	1.49	1.66	18.22	38.38	18.39	-19.13	-11.17		2.21	.20	4	7.77	6.93			
75	179	254	310.66	-4.95	305.71	.10	1.59	18.45	38.68	20.00	-17.89	-11.39		2.01	.20	4	7.78	6.93			
75	180	255	318.04	-5.67	312.37	1.41	1.51	18.52	38.97	18.75	-19.51	-11.60		1.83	.18	4	7.79	6.94			
75	181	256	326.84	-6.41	320.43	.02	1.42	18.74	39.24	20.37	-18.26	-11.80		1.66	.18	4	7.80	6.95			
75	182	257	334.35	-7.18	327.17	1.33	1.35	18.81	39.53	19.12	-19.87	-12.01		1.50	.18	4	7.82	6.95			
75	184	259	350.91	-8.79	342.12	1.25	1.20	19.09	40.09	19.48	-21.97	-12.43		1.19	.16	4	7.84	6.97			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP NEU	RADIUS PRO	EXPERIMENTAL MASS	SHELL	DIFF
76	72	148	57.36	.13	57.49	16.79	31.81	-2.99	-7.80	-21.47	16.66	6.10		11.51	.30	4	6.13	6.23			
76	73	149	51.26	-.30	50.96	14.60	31.39	-2.84	-7.01	-19.14	17.98	5.60		12.10	.30	4	6.15	6.23			
76	74	150	43.47	-.77	42.70	16.34	30.93	-2.44	-6.47	-20.47	15.47	5.16		12.67	.30	4	6.17	6.24			
76	75	151	37.91	-1.29	36.62	14.16	30.49	-2.10	-5.51	-18.14	16.61	4.83		13.25	.32	4	6.19	6.25			
76	76	152	30.66	-1.86	28.80	15.89	30.05	-1.50	-4.57	-19.47	13.91	4.72		13.85	.32	4	6.21	6.25			
76	77	153	26.01	-2.47	23.54	13.33	29.22	-1.36	-4.02	-16.77	15.26	4.58		14.44	.32	4	6.23	6.26			
76	78	154	19.66	-3.13	16.53	15.08	28.42	-.96	-3.48	-17.91	12.97	4.45		15.00	.32	4	6.25	6.27			
76	79	155	15.50	-3.83	11.67	12.94	28.01	-.83	-2.94	-15.43	14.32	4.31		15.53	.32	4	6.27	6.27			
76	80	156	9.65	-4.58	5.07	14.67	27.61	-.43	-2.40	-16.77	12.06	4.17		16.04	.32	4	6.29	6.28			
76	81	157	5.96	-5.36	.60	12.55	27.21	-.29	-1.87	-14.51	13.40	4.02		16.53	.34	4	6.31	6.29			
76	82	158	.59	-6.19	-5.60	14.27	26.82	.09	-1.34	-15.83	9.34	3.88		17.05	.34	4	6.32	6.29			
76	83	159	-2.64	-5.25	-7.89	10.36	24.63	.24	-.79	-11.79	10.68	5.53		17.54	.34	4	6.34	6.30			
76	84	160	-7.54	-4.36	-11.90	12.09	22.44	.62	-.27	-13.11	8.48	7.20		18.00	.34	4	6.36	6.31			
76	85	161	-10.33	-3.53	-13.86	10.03	22.11	.77	.28	-10.91	9.82	6.98		18.44	.34	4	6.38	6.31			
76	86	162	-14.78	-2.75	-17.53	11.75	21.77	1.15	.80	-12.23	7.63	6.79		18.86	.34	4	6.40	6.32			
76	87	163	-17.14	-2.03	-19.17	9.70	21.45	1.29	1.35	-10.05	8.96	6.56		19.26	.34	4	6.42	6.33			
76	88	164	-21.16	-1.35	-22.51	11.42	21.12	1.67	1.86	-11.38	6.80	6.37		19.63	.34	4	6.44	6.33			
76	89	165	-23.09	-.73	-23.82	9.38	20.80	1.80	2.38	-9.20	8.14	6.16		19.99	.36	4	6.45	6.34			
76	90	166	-26.69	-.16	-26.85	11.10	20.48	2.18	2.90	-10.53	5.98	5.95		20.34	.36	4	6.47	6.35			
76	91	167	-28.22	.36	-27.86	9.08	20.18	2.32	3.18	-8.38	7.56	5.73		20.67	.36	4	6.49	6.35			
76	92	168	-31.41	.83	-30.58	10.79	19.87	2.45	3.28	-9.71	5.79	5.52		20.98	.36	4	6.51	6.36			
76	93	169	-32.54	1.08	-31.46	8.96	19.74	2.38	3.52	-7.74	7.34	5.37	.10	21.27	.36	4	6.53	6.37	-29.60	2.94	1.86
76	94	170	-35.33	1.15	-34.18	10.79	19.75	2.67	3.89	-9.37	5.29	5.27	.12	21.53	.36	4	6.54	6.37	-32.60	2.73	1.58

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
76	95	171	-36.09	1.15	-34.94	8.83	19.62	2.76	4.34	-7.52	6.62	5.16	.13	21.66	.34	3	6.56	6.38	-33.49	2.60	1.45
76	96	172	-38.49	1.13	-37.36	10.50	19.32	3.09	4.78	-8.92	4.51	5.08	.14	21.86	.34	3	6.58	6.39	-36.14	2.35	1.22
76	97	173	-38.88	1.09	-37.79	8.50	19.00	3.21	5.26	-6.85	5.80	4.96	.14	22.05	.34	3	6.60	6.39	-36.75	2.13	1.04
76	98	174	-40.91	1.05	-39.86	10.14	18.64	3.56	5.74	-8.16	3.67	4.87	.15	22.22	.34	3	6.61	6.40	-39.06	1.85	.80
76	99	175	-40.93	1.02	-39.91	8.13	18.26	3.67	6.21	-6.03	4.96	4.77	.15	22.38	.34	3	6.63	6.41	-39.34	1.59	.57
76	100	176	-42.60	.99	-41.61	9.77	17.90	4.03	6.69	-7.32	2.83	4.66	.15	22.51	.34	3	6.65	6.41	-41.36	1.24	.25
76	101	177	-42.28	.97	-41.31	7.77	17.54	4.15	7.18	-5.21	4.11	4.54	.15	22.63	.34	3	6.66	6.42	-41.41	.87	-.10
76	102	178	-43.59	.96	-42.63	9.40	17.17	4.50	7.65	-6.48	2.00	4.44	.15	22.73	.34	3	6.68	6.43	-42.96	.63	-.33
76	103	179	-42.93	.96	-41.97	7.42	16.81	4.63	8.14	-4.38	3.27	4.31	.15	22.81	.34	3	6.70	6.43	-42.74	.19	-.77
76	104	180	-43.89	.97	-42.92	9.03	16.44	4.97	8.60	-5.63	1.19	4.21	.15	23.12	.36	3	6.71	6.44	-43.96	-.07	-1.04
76	105	181	-42.91	.99	-41.92	7.07	16.10	5.10	9.09	-3.54	2.45	4.07	.15	23.18	.36	3	6.73	6.45	-43.40	-.49	-1.48
76	106	182	-43.54	1.01	-42.53	8.68	15.75	5.45	9.56	-4.80	.37	3.94	.15	23.23	.36	3	6.75	6.45	-44.25	-.71	-1.72
76	107	183	-42.23	1.04	-41.19	6.73	15.42	5.58	10.05	-2.72	1.64	3.79	.15	23.25	.36	3	6.76	6.46	-43.37	-1.14	-2.18
76	108	184	-42.54	1.07	-41.47	8.35	15.09	5.93	10.53	-3.97	-.42	3.65	.14	23.26	.36	3	6.78	6.47	-44.16	-1.62	-2.69
76	109	185	-40.92	1.09	-39.83	6.43	14.78	6.07	11.02	-1.90	.84	3.47	.13	23.26	.36	3	6.80	6.47	-42.76	-1.84	-2.93
76	110	186	-40.92	1.10	-39.82	8.06	14.49	6.44	11.53	-3.15	-1.21	3.28	.12	23.24	.36	3	6.81	6.48	-42.96	-2.04	-3.14
76	111	187	-39.00	1.08	-37.92	6.18	14.23	6.60	12.06	-1.08	.06	3.04	.11	23.20	.36	3	6.83	6.49	-41.18	-2.18	-3.26
76	112	188	-38.69	.97	-37.72	7.87	14.05	7.03	12.66	-2.30	-1.99	2.72	.08	23.15	.36	3	6.85	6.49	-41.10	-2.41	-3.38
76	113	189	-36.47	.65	-35.82	6.17	14.04	7.37	13.42	-.25	-.72	2.19		23.08	.36	3	6.86	6.50	-38.95	-2.48	-3.13
76	114	190	-35.86	.21	-35.65	7.90	14.08	7.83	14.21	-1.56	-2.68	1.57		23.00	.36	3	6.88	6.51	-38.67	-2.81	-3.02
76	115	191	-33.37	-.26	-33.63	6.05	13.95	7.95	14.80	.41	-1.37	.93		22.91	.36	3	6.89	6.51	-36.36	-2.99	-2.73
76	116	192	-32.47	-.77	-33.24	7.68	13.73	8.27	15.23	-.90	-3.32	.35		22.80	.36	3	6.91	6.52	-35.85	-3.38	-2.61
76	117	193	-29.69	-1.31	-31.00	5.84	13.52	8.38	15.65	1.06	-2.00	-.01		22.68	.36	3	6.92	6.53	-33.37	-3.68	-2.37
76	118	194	-28.51	-1.89	-30.40	7.47	13.31	8.69	16.09	-.25	-3.95	-.24		22.54	.36	3	6.94	6.53	-32.40	-3.89	-2.00
76	119	195	-25.47	-2.50	-27.97	5.64	13.11	8.81	16.52	1.69	-2.64	-.47		22.39	.36	3	6.96	6.54	-29.85	-4.38	-1.88
76	120	196	-24.01	-3.14	-27.15	7.26	12.89	9.11	16.93	.39	-4.56	-.68		22.23	.36	3	6.97	6.55			
76	121	197	-20.70	-3.82	-24.52	5.44	12.70	9.22	17.35	2.32	-3.25	-.91		22.06	.36	3	6.99	6.55			
76	122	198	-18.98	-4.53	-23.51	7.05	12.50	9.53	17.77	1.01	-5.17	-1.14		21.87	.36	3	7.00	6.56			
76	123	199	-15.42	-5.26	-20.68	5.25	12.30	9.63	18.18	2.93	-3.86	-1.36		21.67	.36	3	7.02	6.57			
76	124	200	-13.43	-6.03	-19.46	6.85	12.10	9.93	18.59	1.64	-5.75	-1.57		21.46	.36	3	7.03	6.58			
76	125	201	-9.63	-6.84	-16.47	5.07	11.93	10.04	19.02	3.52	-4.46	-1.82		21.24	.36	3	7.05	6.58			
76	126	202	-7.39	-7.67	-15.06	6.67	11.73	10.34	19.41	2.23	-8.15	-2.03		21.01	.36	3	7.06	6.59			
76	127	203	-3.34	-6.73	-10.07	3.09	9.75	10.45	19.83	5.92	-6.84	-.46		20.76	.36	3	7.08	6.60			
76	128	204	-.85	-5.84	-6.69	4.69	7.78	10.74	20.23	4.63	-8.70	1.11		20.51	.36	3	7.09	6.60			
76	129	205	3.43	-4.99	-1.56	2.94	7.63	10.85	20.65	6.48	-7.40	.84		20.24	.36	3	7.11	6.61			
76	130	206	6.16	-4.17	1.99	4.53	7.46	11.15	21.04	5.20	-9.25	.60		19.96	.36	3	7.12	6.62			
76	131	207	10.67	-3.40	7.27	2.79	7.32	11.26	21.46	7.05	-7.95	.33		19.67	.36	3	7.14	6.62			
76	132	208	13.63	-2.67	10.96	4.38	7.17	11.55	21.86	5.75	-9.80	.08		19.38	.36	3	7.15	6.63			
76	133	209	18.37	-1.97	16.40	2.64	7.01	11.65	22.25	7.60	-8.49	-.17		19.07	.36	3	7.17	6.64			
76	134	210	21.56	-1.32	20.24	4.23	6.87	11.94	22.65	6.31	-10.32	-.42		18.75	.36	3	7.18	6.64			
76	135	211	26.51	-.70	25.81	2.50	6.73	12.04	23.04	8.14	-9.03	-.69		18.42	.36	3	7.19	6.65			
76	136	212	29.92	-.12	29.80	4.08	6.58	12.33	23.40	6.85	-10.75	-.93		18.08	.36	3	7.21	6.66			
76	137	213	35.09	.42	35.51	2.36	6.45	12.33	23.38	8.67	-9.01	-1.19		17.74	.36	3	7.22	6.66			
76	138	214	38.72	.79	39.51	4.07	6.44	12.30	23.34	7.25	-10.42	-1.54	.09	17.38	.36	3	7.24	6.67			
76	139	215	44.09	.83	44.92	2.66	6.74	12.30	23.57	8.62	-9.01	-1.82	.12	17.01	.36	3	7.25	6.68			
76	140	216	47.93	.76	48.69	4.30	6.96	12.53	23.88	6.97	-10.78	-2.00	.14	16.64	.36	3	7.27	6.68			
76	141	217	53.51	.66	54.17	2.60	6.89	12.60	24.20	8.66	-9.49	-2.17	.15	16.26	.36	3	7.28	6.69			
76	142	218	57.55	.54	58.09	4.15	6.75	12.86	24.55	7.35	-11.30	-2.32	.15	15.87	.36	3	7.29	6.70			
76	143	219	63.33	.41	63.74	2.42	6.57	12.94	24.91	9.14	-10.04	-2.48	.16	15.47	.36	3	7.31	6.70			
76	144	220	67.57	.29	67.86	3.95	6.37	13.21	25.26	7.88	-11.85	-2.63	.16	15.06	.36	3	7.32	6.71			
76	145	221	73.54	.17	73.71	2.22	6.17	13.29	25.62	9.68	-10.61	-2.78	.16	14.64	.36	3	7.34	6.72			
76	146	222	77.98	.07	78.05	3.73	5.96	13.56	25.97	8.44	-12.40	-2.92	.16	14.22	.36	3	7.35	6.72			
76	147	223	84.13	-.03	84.10	2.02	5.75	13.64	26.33	10.24	-11.17	-3.08	.17	13.79	.36	3	7.36	6.73			
76	148	224	88.76	-.12	88.64	3.53	5.55	13.91	26.69	9.00	-12.97	-3.23	.17	13.35	.36	3	7.38	6.74			
76	149	225	95.10	-.19	94.91	1.81	5.33	13.99	27.03	10.81	-11.72	-3.37	.17	12.91	.36	3	7.39	6.75			
76	150	226	99.92	-.26	99.66	3.31	5.13	14.26	27.39	9.57	-13.51	-3.52	.17	12.45	.36	3	7.41	6.75			
76	151	227	106.43	-.31	106.12	1.61	4.93	14.34	27.74	11.36	-12.28	-3.67	.17	11.99	.36	3	7.42	6.76			
76	152	228	111.43	-.35	111.08	3.11	4.73	14.61	28.09	10.13	-14.06	-3.82	.17	11.52	.36	3	7.43	6.77			
76	153	229	118.12	-.38	117.74	1.42	4.52	14.69	28.43	11.91	-12.82	-3.97	.17	11.05	.36	3	7.45	6.77			
76	154	230	123.30	-.40	122.90	2.91	4.33	14.95	28.78	10.68	-14.59	-4.11	.17	10.57	.36	3	7.46	6.78			
76	155	231	130.15	-.40	129.75	1.23	4.13	15.03	29.12	12.45	-13.36	-4.27	.17	10.08	.36	3	7.47	6.79			
76	156	232	135.51	-.40	135.11	2.71	3.94	15.29	29.47	11.22	-15.12	-4.42	.17	9.59	.36	3	7.49	6.79			
76	157	233	142.53	-.38	142.15	1.04	3.75	15.37	29.81	12.98	-13.89	-4.57	.17	9.09	.36	3	7.50	6.80			
76	158	234	148.06	-.35	147.71	2.51	3.55	15.62	30.14	11.77	-15.64	-4.71	.17	8.47	.34	3	7.51	6.81			
76	159	235	155.24	-.30	154.94	.85	3.36	15.70	30.47	13.52	-14.40	-4.86	.17	7.93	.30	4	7.53	6.81			
76	160	236	160.93	-.25	160.68	2.33	3.18	15.95	30.81	12.30	-16.15	-5.01	.17	7.51	.30	4	7.54	6.82			
76	161	237	168.27	-.19	168.08	.67	3.00	16.03	31.14	14.03	-14.92	-5.18	.17	7.10	.28	4	7.55	6.83			
76	162	238	174.13	-.11	174.02	2.14	2.80	16.28	31.46	12.83	-16.64	-5.31	.17	6.74	.28	4	7.57	6.83			
76	163	239	181.62	-.03	181.59	.49	2.64	16.36	31.80	14.55	-15.43	-5.48	.16	6.37	.28	4	7.58	6.84			
76	164	240	187.63	.06	187.69	1.97	2.47	16.61	32.14	13.33	-17.15	-5.64	.16	6.00	.28	4	7.59	6.85			
76	165	241	195.27	.16	195.43	.34	2.30	16.70	32.47	15.05	-15.93	-5.81	.16	5.65	.26	4	7.61	6.86			
76	166	242	201.44	.26	201.70	1.80	2.14	16.95	32.81	13.84	-17.64	-5.97	.15	5.33	.26	4	7.62	6.86			
76	167	243	209.23	.36	209.59	.19	1.99	17.04	33.15	15.55	-16.42	-6.16	.14	5.01	.26	4	7.63	6.87			
76	168	244	215.55	.44	215.99	1.68	1.86	17.31	33.51	14.34	-18.11	-6.36	.13	4.68	.26	4	7.64	6.88			
76	169	245	223.49	.43	223.92	.14	1.82	17.47	33.95	16.05	-16.87	-6.66	.09	4.40	.24	4	7.66	6.88			
76	170	246	229.96	.05	230.01	1.98	2.13	18.07	34.72	14.83	-18.48	-7.33		4.12	.24	4	7.67	6.89			
76	171	247	238.03	-.45	237.58	.50	2.48	18.20	35.46	16.47	-17.23	-8.13		3.84	.24	4	7.68	6.90			
76	172	248	244.64	-.98	243.66	1.99	2.49	18.44	35.77	15.22	-18.88	-8.92		3.55	.22	4	7.70	6.90			
76	173	249	252.85	-1.53	251.32	.42	2.40	18.51	36.08	16.86	-17.63	-9.56		3.32	.22	4	7.71	6.91			
76	174	250	259.61	-2.10	257.51	1.89	2.30	18.73	36.36	15.62	-19.25	-9.77		3.08	.22	4	7.72	6.92			
76	175	251	267.95	-2.70	265.25	.33	2.22	18.81	36.67	17.25	-18.01	-9.99		2.84	.22	4	7.73	6.92			
76	176	252	274.85	-3.33	271.52	1.80	2.13	19.03	36.96	16.01	-19.64	-10.20		2.61	.20	4	7.75	6.93			
76	177	253	283.32	-3.97	279.35	.25	2.04	19.10	37.26	17.64	-18.39	-10.41		2.41	.20	4	7.76	6.94			
76	178	254	290.35	-4.65	285.70	1.72	1.97	19.32	37.55	16.39	-20.01	-10.63		2.21	.20	4	7.77	6.94			
76	179	255	298.96	-5.34	293.62	.16	1.87	19.38	37.83	18.02	-18.76	-10.83		2.01	.18	4	7.78	6.95			
76	180	256	306.12	-6.06	300.06	1.63	1.79	19.60	38.12	16.77	-20.37	-11.04		1.84	.18	4	7.80	6.96			
76	181	257	314.85	-6.80	308.05	.08	1.71	19.67	38.41	18.39	-19.12	-11.25		1.68	.18	4	7.81	6.97			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
76	182	258	322.14	-7.57	314.57	1.55	1.64	19.89	38.70	17.14	-20.73	-11.46		1.51	.18	4	7.82	6.97			
76	183	259	330.99	-8.35	322.64	.01	1.55	19.95	38.97	18.75	-19.49	-11.66		1.35	.16	4	7.83	6.98			
76	184	260	338.41	-9.16	329.25	1.47	1.47	20.17	39.25	17.52	-22.82	-11.86		1.21	.16	4	7.85	6.99			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
77	79	156	26.26	-4.43	21.83	13.34	28.75	-2.87	-3.70	-14.29	16.75	4.52		13.62	.32	4	6.28	6.30			
77	80	157	20.27	-5.17	15.10	14.81	28.15	-2.74	-3.17	-15.62	14.50	4.39		14.15	.32	4	6.29	6.30			
77	81	158	16.18	-5.95	10.23	12.95	27.75	-2.34	-2.64	-13.37	15.83	4.25		14.66	.32	4	6.31	6.31			
77	82	159	10.67	-6.77	3.90	14.41	27.35	-2.21	-2.12	-14.69	11.79	4.12		15.15	.32	4	6.33	6.32			
77	83	160	7.04	-5.83	1.21	10.76	25.17	-1.81	-1.58	-10.66	13.12	5.77		15.61	.32	4	6.35	6.32			
77	84	161	1.99	-4.95	-2.96	12.24	23.00	-1.66	-1.03	-12.00	10.90	7.42		16.05	.32	4	6.37	6.33			
77	85	162	-1.18	-4.11	-5.29	10.41	22.64	-1.28	-.52	-9.79	12.25	7.23		16.47	.32	4	6.39	6.34			
77	86	163	-5.78	-3.34	-9.12	11.89	22.31	-1.13	.02	-11.13	10.05	7.03		16.91	.34	4	6.41	6.34			
77	87	164	-8.52	-2.61	-11.13	10.09	21.97	-.74	.54	-8.94	11.38	6.83		17.33	.34	4	6.43	6.35			
77	88	165	-12.68	-1.94	-14.62	11.56	21.65	-.60	1.07	-10.28	9.21	6.63		17.73	.34	4	6.44	6.36			
77	89	166	-15.00	-1.32	-16.32	9.77	21.33	-.22	1.59	-8.12	10.53	6.42		18.10	.34	4	6.46	6.36			
77	90	167	-18.73	-.75	-19.48	11.23	21.00	-.09	2.10	-9.44	8.38	6.23		18.46	.34	4	6.48	6.37			
77	91	168	-20.65	-.22	-20.87	9.47	20.69	.30	2.62	-7.30	9.70	6.01		18.79	.34	4	6.50	6.38			
77	92	169	-23.97	.25	-23.72	10.92	20.38	.44	2.88	-8.62	7.74	5.81		19.10	.34	4	6.52	6.38			
77	93	170	-25.48	.67	-24.81	9.16	20.08	.63	3.02	-6.50	9.37	5.60		19.39	.34	4	6.53	6.39			
77	94	171	-28.40	.98	-27.42	10.68	19.84	.52	3.20	-7.89	7.52	5.57	.08	19.67	.36	4	6.55	6.40	-25.23	3.17	2.19
77	95	172	-29.53	1.09	-28.44	9.09	19.78	.79	3.55	-6.00	8.93	5.50	.11	19.94	.36	4	6.57	6.40	-26.62	2.91	1.82
77	96	173	-32.07	1.12	-30.95	10.58	19.67	.87	3.97	-7.58	6.84	5.43	.12	20.19	.36	4	6.59	6.41	-29.30	2.77	1.65
77	97	174	-32.82	1.12	-31.70	8.83	19.40	1.20	4.41	-5.65	8.15	5.34	.13	20.42	.36	4	6.60	6.42	-30.37	2.45	1.33
77	98	175	-34.98	1.10	-33.88	10.25	19.08	1.31	4.87	-7.02	6.03	5.26	.14	20.63	.36	4	6.62	6.42	-32.74	2.24	1.14
77	99	176	-35.37	1.08	-34.29	8.48	18.73	1.66	5.34	-4.95	7.32	5.15	.14	20.82	.36	4	6.64	6.43	-33.58	1.79	.71
77	100	177	-37.16	1.06	-36.10	9.88	18.37	1.78	5.81	-6.25	5.20	5.06	.14	20.88	.34	3	6.66	6.44	-35.59	1.57	.51
77	101	178	-37.20	1.05	-36.15	8.12	18.01	2.13	6.29	-4.16	6.47	4.95	.14	21.02	.34	3	6.67	6.44	-35.96	1.24	.19
77	102	179	-38.64	1.04	-37.60	9.52	17.65	2.26	6.76	-5.44	4.36	4.85	.14	21.14	.34	3	6.69	6.45	-37.64	1.00	-.04
77	103	180	-38.33	1.04	-37.29	7.76	17.28	2.61	7.24	-3.34	5.63	4.73	.14	21.24	.34	3	6.71	6.46	-37.86	.47	-.57
77	104	181	-39.43	1.05	-38.38	9.16	16.93	2.75	7.72	-4.61	3.54	4.61	.14	21.33	.34	3	6.72	6.46	-39.10	.33	-.72
77	105	182	-38.79	1.06	-37.73	7.43	16.58	3.10	8.20	-2.52	4.80	4.48	.14	21.40	.34	3	6.74	6.47	-38.95	-.16	-1.22
77	106	183	-39.55	1.07	-38.48	8.82	16.25	3.24	8.69	-3.78	2.71	4.34	.14	21.45	.34	3	6.76	6.48	-39.97	-.42	-1.49
77	107	184	-38.59	1.09	-37.50	7.10	15.91	3.60	9.18	-1.70	3.97	4.18	.13	21.49	.34	3	6.77	6.48	-39.44	-.85	-1.94
77	108	185	-39.02	1.09	-37.93	8.50	15.60	3.75	9.68	-2.94	1.90	4.02	.12	21.52	.34	3	6.79	6.49	-40.26	-1.24	-2.33
77	109	186	-37.74	1.08	-36.66	6.81	15.30	4.12	10.19	-.85	3.15	3.82	.11	21.52	.34	3	6.81	6.50	-39.13	-1.39	-2.47
77	110	187	-37.86	1.02	-36.84	8.25	15.06	4.32	10.75	-2.06	1.08	3.57	.10	21.51	.34	3	6.82	6.50	-39.68	-1.82	-2.84
77	111	188	-36.28	.86	-35.42	6.65	14.90	4.79	11.39	.06	2.30	3.20	.06	21.49	.34	3	6.84	6.51	-38.27	-1.99	-2.85
77	112	189	-36.08	.51	-35.57	8.22	14.88	5.14	12.17	-1.22	.25	2.68		21.69	.36	3	6.85	6.52	-38.45	-2.37	-2.88
77	113	190	-34.21	.11	-34.10	6.60	14.83	5.56	12.94	.74	1.55	2.08		21.64	.36	3	6.87	6.52	-36.62	-2.41	-2.52
77	114	191	-33.71	-.32	-34.03	8.01	14.60	5.67	13.51	-.55	-.40	1.52		21.58	.36	3	6.88	6.53	-36.67	-2.96	-2.64
77	115	192	-31.55	-.79	-32.34	6.38	14.39	6.01	13.95	1.40	.90	.97		21.51	.36	3	6.90	6.54	-34.80	-3.25	-2.46
77	116	193	-30.76	-1.30	-32.06	7.79	14.17	6.11	14.38	.10	-1.05	.62		21.42	.36	3	6.92	6.54	-34.50	-3.74	-2.44
77	117	194	-28.32	-1.84	-30.16	6.17	13.96	6.44	14.82	2.04	.24	.38		21.32	.36	3	6.93	6.55	-32.49	-4.17	-2.33
77	118	195	-27.25	-2.41	-29.66	7.58	13.74	6.55	15.24	.74	-1.69	.17		21.20	.36	3	6.95	6.56	-31.85	-4.60	-2.19
77	119	196	-24.53	-3.02	-27.55	5.96	13.54	6.87	15.67	2.67	-.40	-.06		21.07	.36	3	6.96	6.56	-29.46	-4.93	-1.91
77	120	197	-23.18	-3.66	-26.84	7.36	13.33	6.97	16.09	1.37	-2.32	-.27		20.93	.36	3	6.98	6.57	-28.41	-5.23	-1.57
77	121	198	-20.20	-4.33	-24.53	5.76	13.13	7.29	16.52	3.29	-1.02	-.50		20.78	.36	3	6.99	6.58	-25.51	-5.31	-.98
77	122	199	-18.58	-5.03	-23.61	7.16	12.91	7.40	16.92	2.00	-2.93	-.71		20.61	.36	3	7.01	6.58			
77	123	200	-15.34	-5.77	-21.11	5.56	12.73	7.71	17.35	3.89	-1.64	-.94		20.43	.36	3	7.02	6.59			
77	124	201	-13.46	-6.53	-19.99	6.96	12.52	7.81	17.74	2.61	-3.53	-1.15		20.24	.36	3	7.04	6.60			
77	125	202	-9.97	-7.33	-17.30	5.38	12.34	8.13	18.17	4.49	-2.24	-1.38		20.03	.36	3	7.05	6.60			
77	126	203	-7.83	-8.16	-15.99	6.76	12.14	8.22	18.56	3.21	-5.92	-1.59		19.82	.36	3	7.07	6.61			
77	127	204	-4.09	-7.22	-11.31	3.39	10.16	8.53	18.97	6.88	-4.62	-.02		19.59	.36	3	7.08	6.62			
77	128	205	-1.71	-6.33	-8.04	4.80	8.19	8.64	19.38	5.58	-6.49	1.54		19.35	.36	3	7.10	6.62			
77	129	206	2.27	-5.48	-3.21	3.24	8.04	8.94	19.80	7.44	-5.19	1.28		19.10	.36	3	7.11	6.63			
77	130	207	4.89	-4.67	.22	4.64	7.88	9.05	20.20	6.15	-7.05	1.03		18.84	.36	3	7.13	6.64			
77	131	208	9.10	-3.90	5.20	3.09	7.73	9.36	20.61	7.99	-5.76	.77		18.57	.36	3	7.14	6.64			
77	132	209	11.96	-3.16	8.80	4.48	7.56	9.46	21.00	6.71	-7.60	.53		18.29	.36	3	7.16	6.65			
77	133	210	16.40	-2.47	13.93	2.94	7.42	9.76	21.40	8.54	-6.31	.27		18.00	.36	3	7.17	6.66			
77	134	211	19.49	-1.82	17.67	4.33	7.27	9.85	21.80	7.25	-8.14	.02		17.70	.36	3	7.19	6.66			
77	135	212	24.15	-1.20	22.95	2.79	7.12	10.15	22.19	9.08	-6.85	-.23		17.39	.36	3	7.20	6.67			
77	136	213	27.46	-.62	26.84	4.18	6.98	10.25	22.58	7.79	-8.67	-.47		17.07	.36	3	7.22	6.68			
77	137	214	32.34	-.08	32.26	2.65	6.83	10.54	22.87	9.60	-7.25	-.73		16.73	.36	3	7.23	6.68			
77	138	215	35.87	.43	36.30	4.03	6.68	10.50	22.80	8.32	-8.62	-.96		16.39	.36	3	7.24	6.69			
77	139	216	40.95	.77	41.72	2.65	6.68	10.49	22.79	9.99	-6.97	-1.25	.09	16.05	.36	3	7.26	6.70			
77	140	217	44.70	.81	45.51	4.29	6.93	10.47	23.00	8.32	-8.65	-1.44	.12	15.69	.36	3	7.27	6.70			
77	141	218	49.99	.75	50.74	2.83	7.13	10.71	23.31	9.73	-7.35	-1.61	.14	15.32	.36	3	7.29	6.71			
77	142	219	53.94	.66	54.60	4.21	7.05	10.78	23.64	8.32	-9.14	-1.76	.14	14.94	.36	3	7.30	6.72			
77	143	220	59.43	.55	59.98	2.69	6.90	11.04	23.99	10.06	-7.88	-1.92	.15	14.56	.36	3	7.32	6.72			
77	144	221	63.58	.44	64.02	4.03	6.72	11.13	24.34	8.78	-9.69	-2.06	.15	14.17	.36	3	7.33	6.73			
77	145	222	69.27	.34	69.61	2.49	6.52	11.39	24.68	10.58	-8.44	-2.20	.16	13.77	.36	3	7.34	6.74			
77	146	223	73.62	.24	73.86	3.82	6.31	11.48	25.03	9.33	-10.24	-2.34	.16	13.36	.36	3	7.36	6.74			
77	147	224	79.50	.14	79.64	2.29	6.11	11.75	25.39	11.12	-9.01	-2.50	.16	12.94	.36	3	7.37	6.75			
77	148	225	84.04	.06	84.10	3.61	5.90	11.84	25.74	9.89	-10.80	-2.64	.16	12.52	.36	3	7.38	6.76			
77	149	226	90.10	-.01	90.09	2.09	5.69	12.11	26.10	11.67	-9.57	-2.79	.16	12.09	.36	3	7.40	6.76			
77	150	227	94.84	-.08	94.76	3.40	5.48	12.19	26.45	10.44	-11.36	-2.93	.17	11.65	.36	3	7.41	6.77			
77	151	228	101.08	-.13	100.95	1.88	5.28	12.46	26.80	12.22	-10.13	-3.08	.17	11.06	.34	3	7.43	6.78			
77	152	229	106.00	-.17	105.83	3.19	5.07	12.54	27.14	11.00	-11.91	-3.22	.17	10.62	.34	3	7.44	6.79			
77	153	230	112.41	-.20	112.21	1.69	4.88	12.81	27.50	12.76	-10.69	-3.39	.17	10.17	.34	3	7.45	6.79			
77	154	231	117.51	-.21	117.30	2.99	4.67	12.90	27.84	11.54	-12.45	-3.52	.17	9.71	.34	3	7.47	6.80			
77	155	232	124.10	-.22	123.88	1.49	4.48	13.16	28.19	13.30	-11.24	-3.68	.17	9.25	.34	3	7.48	6.81			
77	156	233	129.38	-.21	129.17	2.79	4.27	13.24	28.52	12.09	-12.98	-3.81	.17	8.78	.34	3	7.49	6.81			
77	157	234	136.14	-.19	135.95	1.29	4.08	13.49	28.86	13.84	-11.76	-3.97	.17	8.31	.30	4	7.51	6.82			
77	158	235	141.58	-.16	141.42	2.60	3.89	13.58	29.20	12.62	-13.51	-4.12	.17	7.91	.30	4	7.52	6.83			
77	159	236	148.50	-.12	148.38	1.11	3.71	13.84	29.54	14.36	-12.30	-4.28	.17	7.51	.28	4	7.53	6.83			
77	160	237	154.12	-.07	154.05	2.40	3.51	13.92	29.87	13.15	-14.03	-4.42	.16	7.16	.28	4	7.55	6.84			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
77	161	238	161.20	-.01	161.19	.93	3.34	14.18	30.21	14.88	-12.82	-4.58	.16	6.80	.28	4	7.56	6.85			
77	162	239	166.98	.06	167.04	2.22	3.15	14.26	30.54	13.67	-14.55	-4.73	.16	6.44	.28	4	7.57	6.85			
77	163	240	174.22	.14	174.36	.75	2.98	14.51	30.88	15.39	-13.34	-4.89	.16	6.08	.26	4	7.59	6.86			
77	164	241	180.15	.23	180.38	2.05	2.80	14.61	31.21	14.18	-15.06	-5.05	.15	5.77	.26	4	7.60	6.87			
77	165	242	187.55	.32	187.87	.59	2.63	14.86	31.55	15.91	-13.84	-5.22	.15	5.46	.26	4	7.61	6.87			
77	166	243	193.64	.40	194.04	1.89	2.49	14.96	31.90	14.70	-15.55	-5.40	.14	5.14	.26	4	7.63	6.88			
77	167	244	201.18	.46	201.64	.47	2.37	15.24	32.28	16.41	-14.35	-5.62	.13	4.82	.24	4	7.64	6.89			
77	168	245	207.43	.44	207.87	1.85	2.31	15.42	32.72	15.24	-16.05	-5.92	.09	4.55	.24	4	7.65	6.89			
77	169	246	215.12	.07	215.19	.75	2.60	16.02	33.49	16.95	-14.81	-6.58		4.28	.24	4	7.66	6.90			
77	170	247	221.51	-.41	221.10	2.15	2.91	16.19	34.27	15.69	-16.48	-7.34		4.01	.24	4	7.68	6.91			
77	171	248	229.34	-.90	228.44	.74	2.89	16.43	34.63	17.34	-15.23	-8.09		3.73	.24	4	7.69	6.92			
77	172	249	235.89	-1.42	234.47	2.05	2.78	16.49	34.92	16.11	-16.86	-8.74		3.49	.22	4	7.70	6.92			
77	173	250	243.86	-1.97	241.89	.65	2.70	16.73	35.23	17.74	-15.62	-9.03		3.26	.22	4	7.71	6.93			
77	174	251	250.54	-2.54	248.00	1.96	2.61	16.80	35.53	16.49	-17.25	-9.24		3.02	.22	4	7.73	6.94			
77	175	252	258.65	-3.14	255.51	.56	2.52	17.03	35.83	18.12	-16.01	-9.46		2.78	.22	4	7.74	6.94			
77	176	253	265.48	-3.76	261.72	1.86	2.42	17.09	36.12	16.89	-17.63	-9.66		2.58	.20	4	7.75	6.95			
77	177	254	273.72	-4.41	269.31	.47	2.34	17.33	36.42	18.50	-16.40	-9.88		2.38	.20	4	7.77	6.96			
77	178	255	280.68	-5.07	275.61	1.78	2.25	17.39	36.71	17.27	-18.01	-10.08		2.19	.20	4	7.78	6.96			
77	179	256	289.05	-5.77	283.28	.39	2.18	17.62	37.01	18.87	-16.78	-10.30		2.01	.18	4	7.79	6.97			
77	180	257	296.15	-6.48	289.67	1.69	2.08	17.68	37.28	17.65	-18.38	-10.49		1.84	.18	4	7.80	6.98			
77	181	258	304.65	-7.22	297.43	.31	2.00	17.91	37.57	19.25	-17.15	-10.71		1.68	.18	4	7.82	6.98			
77	182	259	311.87	-7.98	303.89	1.61	1.92	17.98	37.86	18.01	-18.75	-10.91		1.52	.18	4	7.83	6.99			
77	183	260	320.50	-8.77	311.73	.23	1.84	18.20	38.15	19.61	-17.52	-11.12		1.36	.16	4	7.84	7.00			
77	184	261	327.85	-9.58	318.27	1.53	1.76	18.27	38.43	18.37	-20.85	-11.33		1.23	.16	4	7.85	7.00			
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78	76	154	53.37	-3.13	50.24	16.43	31.13	-2.64	-6.86	-20.73	15.80	5.11		10.39	.28	4	6.23	6.30			
78	77	155	47.77	-3.73	44.04	14.28	30.70	-2.31	-5.92	-18.44	16.94	4.99		10.89	.30	4	6.25	6.31			
78	78	156	40.50	-4.38	36.12	15.99	30.27	-1.73	-5.01	-19.75	14.28	4.89		11.41	.30	4	6.27	6.31			
78	79	157	35.79	-5.07	30.72	13.47	29.46	-1.60	-4.47	-17.10	15.61	4.76		11.90	.30	4	6.28	6.32			
78	80	158	29.40	-5.80	23.60	15.19	28.67	-1.20	-3.95	-18.23	13.37	4.64		12.38	.30	4	6.30	6.33			
78	81	159	25.17	-6.58	18.59	13.08	28.27	-1.07	-3.41	-15.79	14.69	4.50		12.83	.30	4	6.32	6.33			
78	82	160	19.27	-7.40	11.87	14.79	27.87	-.69	-2.89	-17.11	10.66	4.37		13.27	.30	4	6.34	6.34			
78	83	161	15.50	-6.46	9.04	10.90	25.69	-.55	-2.35	-13.09	11.99	6.02		13.74	.32	4	6.36	6.35			
78	84	162	10.07	-5.57	4.50	12.62	23.52	-.16	-1.83	-14.40	9.80	7.68		14.21	.32	4	6.38	6.35			
78	85	163	6.75	-4.74	2.01	10.56	23.18	-.02	-1.29	-12.21	11.13	7.47		14.65	.32	4	6.40	6.36			
78	86	164	1.78	-3.96	-2.18	12.27	22.82	.36	-.78	-13.52	8.95	7.30		15.07	.32	4	6.42	6.37			
78	87	165	-1.10	-3.24	-4.34	10.23	22.49	.49	-.25	-11.34	10.28	7.09		15.47	.32	4	6.44	6.37			
78	88	166	-5.64	-2.57	-8.21	11.94	22.17	.88	.28	-12.67	8.11	6.90		15.84	.32	4	6.45	6.38			
78	89	167	-8.09	-1.95	-10.04	9.90	21.84	1.01	.79	-10.50	9.44	6.70		16.20	.32	4	6.47	6.39			
78	90	168	-12.20	-1.37	-13.57	11.61	21.51	1.38	1.30	-11.82	7.30	6.52		16.55	.34	4	6.49	6.39			
78	91	169	-14.24	-.85	-15.09	9.59	21.19	1.51	1.81	-9.67	8.63	6.31		16.90	.34	4	6.51	6.40			
78	92	170	-17.93	-.38	-18.31	11.28	20.88	1.88	2.32	-10.99	6.50	6.12		17.24	.34	4	6.53	6.41			
78	93	171	-19.58	.05	-19.53	9.29	20.58	2.01	2.64	-8.86	7.89	5.90		17.55	.34	4	6.54	6.41			
78	94	172	-22.87	.43	-22.44	10.98	20.27	2.31	2.83	-10.18	6.00	5.71		17.84	.34	4	6.56	6.42			
78	95	173	-24.13	.76	-23.37	9.00	19.98	2.22	3.01	-8.07	7.57	5.67		18.12	.34	4	6.58	6.42	-20.84	3.29	2.53
78	96	174	-27.02	.97	-26.05	10.76	19.75	2.40	3.26	-9.45	5.65	5.71	.08	18.37	.34	4	6.60	6.43	-24.00	3.02	2.05
78	97	175	-27.91	1.05	-26.86	8.88	19.63	2.45	3.65	-7.52	7.02	5.65	.10	18.60	.34	4	6.61	6.44	-24.97	2.94	1.89
78	98	176	-30.42	1.08	-29.34	10.55	19.43	2.75	4.06	-9.00	4.95	5.60	.12	18.82	.34	4	6.63	6.44	-27.85	2.57	1.49
78	99	177	-30.94	1.09	-29.85	8.58	19.14	2.85	4.51	-7.06	6.25	5.51	.12	19.02	.34	4	6.65	6.45	-28.68	2.26	1.17
78	100	178	-33.08	1.09	-31.99	10.21	18.79	3.18	4.96	-8.42	4.16	5.44	.13	19.21	.36	4	6.66	6.46	-31.07	2.01	.92
78	101	179	-33.25	1.09	-32.16	8.24	18.45	3.30	5.43	-6.37	5.43	5.33	.13	19.38	.36	4	6.68	6.46	-31.65	1.60	.51
78	102	180	-35.03	1.08	-33.95	9.86	18.10	3.64	5.90	-7.66	3.34	5.23	.13	19.54	.36	4	6.70	6.47	-33.68	1.35	.27
78	103	181	-34.86	1.08	-33.78	7.90	17.76	3.78	6.39	-5.59	4.60	5.10	.13	19.68	.36	4	6.71	6.48	-33.85	1.01	-.07
78	104	182	-36.29	1.08	-35.21	9.51	17.40	4.12	6.87	-6.84	2.52	4.99	.13	19.80	.36	4	6.73	6.48	-35.59	.70	-.38
78	105	183	-35.78	1.08	-34.70	7.56	17.07	4.26	7.36	-4.75	3.77	4.84	.12	19.90	.36	4	6.75	6.49	-35.48	.30	-.78
78	106	184	-36.88	1.07	-35.81	9.18	16.74	4.63	7.86	-5.98	1.69	4.69	.12	19.90	.34	3	6.76	6.50	-36.94	-.06	-1.13
78	107	185	-36.04	1.05	-34.99	7.26	16.43	4.78	8.38	-3.87	2.94	4.50	.11	19.96	.34	3	6.78	6.50	-36.46	-.42	-1.47
78	108	186	-36.80	1.00	-35.80	8.89	16.14	5.17	8.91	-5.03	.87	4.30	.09	20.00	.34	3	6.80	6.51	-37.50	-.70	-1.70
78	109	187	-35.65	.88	-34.77	7.04	15.92	5.40	9.52	-2.90	2.07	4.00	.06	20.03	.34	3	6.81	6.52	-36.78	-1.13	-2.01
78	110	188	-36.10	.62	-35.48	8.78	15.81	5.94	10.24	-4.18	-.06	3.57		20.04	.34	3	6.83	6.52	-37.73	-1.63	-2.25
78	111	189	-34.64	.29	-34.35	6.94	15.72	6.22	11.01	-2.20	1.22	3.05		20.04	.34	3	6.85	6.53	-36.55	-1.91	-2.20
78	112	190	-34.77	-.07	-34.84	8.56	15.50	6.56	11.70	-3.49	-.75	2.55		20.02	.34	3	6.86	6.54	-37.29	-2.52	-2.45
78	113	191	-33.01	-.47	-33.48	6.71	15.28	6.67	12.24	-1.52	.56	2.02		19.99	.34	3	6.88	6.54	-35.67	-2.66	-2.19
78	114	192	-32.84	-.90	-33.74	8.33	15.04	6.99	12.67	-2.81	-1.40	1.55		19.94	.34	3	6.89	6.55	-36.26	-3.42	-2.52
78	115	193	-30.79	-1.37	-32.16	6.49	14.82	7.10	13.11	-.86	-.10	1.24		19.88	.34	3	6.91	6.56	-34.44	-3.65	-2.28
78	116	194	-30.33	-1.87	-32.20	8.11	14.60	7.43	13.54	-2.15	-2.05	1.02		19.81	.34	3	6.92	6.56	-34.73	-4.40	-2.53
78	117	195	-28.00	-2.40	-30.40	6.28	14.38	7.54	13.97	-.20	-.74	.80		19.72	.34	3	6.94	6.57	-32.79	-4.79	-2.39
78	118	196	-27.24	-2.97	-30.21	7.88	14.16	7.84	14.39	-1.49	-2.67	.60		19.62	.34	3	6.96	6.58	-32.63	-5.39	-2.42
78	119	197	-24.64	-3.57	-28.21	6.07	13.95	7.96	14.82	.44	-1.37	.37		19.50	.34	3	6.97	6.58	-30.41	-5.77	-2.20
78	120	198	-23.61	-4.21	-27.82	7.68	13.75	8.27	15.25	-.86	-3.30	.15		19.38	.34	3	6.99	6.59	-29.91	-6.30	-2.09
78	121	199	-20.73	-4.88	-25.61	5.86	13.54	8.37	15.67	1.06	-2.00	-.07		19.24	.34	3	7.00	6.60	-27.41	-6.68	-1.80
78	122	200	-19.43	-5.58	-25.01	7.47	13.34	8.68	16.08	-.23	-3.91	-.28		19.09	.34	3	7.02	6.60	-26.61	-7.18	-1.60
78	123	201	-16.29	-6.31	-22.60	5.66	13.13	8.78	16.49	1.68	-2.61	-.50		18.93	.34	3	7.03	6.61	-23.50	-7.21	-.90
78	124	202	-14.72	-7.07	-21.79	7.26	12.93	9.08	16.90	.40	-4.50	-.71		18.75	.34	3	7.05	6.62			
78	125	203	-11.34	-7.86	-19.20	5.48	12.74	9.20	17.32	2.28	-3.21	-.94		18.56	.34	3	7.06	6.62			
78	126	204	-9.51	-8.68	-18.19	7.07	12.54	9.49	17.71	1.00	-6.87	-1.15		18.37	.34	3	7.08	6.63			
78	127	205	-5.87	-7.75	-13.62	3.50	10.57	9.60	18.13	4.67	-5.58	.42		18.16	.34	3	7.09	6.64			
78	128	206	-3.79	-6.86	-10.65	5.10	8.60	9.90	18.54	3.38	-7.44	1.98		18.14	.36	3	7.11	6.64			
78	129	207	.08	-6.01	-5.93	3.35	8.45	10.01	18.95	5.24	-6.15	1.72		17.91	.36	3	7.12	6.65			
78	130	208	2.41	-5.20	-2.79	4.94	8.28	10.30	19.35	3.96	-8.00	1.48		17.67	.36	3	7.14	6.66			
78	131	209	6.52	-4.43	2.09	3.19	8.13	10.40	19.76	5.81	-6.71	1.22		17.41	.36	3	7.15	6.66			
78	132	210	9.09	-3.70	5.39	4.77	7.96	10.69	20.15	4.53	-8.54	.98		17.15	.36	3	7.17	6.67			
78	133	211	13.42	-3.00	10.42	3.05	7.81	10.80	20.55	6.36	-7.25	.72		16.87	.36	3	7.18	6.68			
78	134	212	16.22	-2.35	13.87	4.62	7.66	11.09	20.95	5.08	-9.08	.48		16.59	.36	3	7.19	6.68			
78	135	213	20.78	-1.73	19.05	2.90	7.51	11.19	21.34	6.91	-7.79	.23		16.30	.36	3	7.21	6.69			
78	136	214	23.81	-1.15	22.66	4.47	7.36	11.47	21.72	5.63	-9.60	-.00		15.81	.34	3	7.22	6.70			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
78	137	215	28.59	-.61	27.98	2.75	7.21	11.57	22.11	7.45	-8.32	-.26		15.50	.34	3	7.24	6.70			
78	138	216	31.84	-.10	31.74	4.31	7.06	11.85	22.35	6.18	-9.98	-.49		15.18	.34	3	7.25	6.71			
78	139	217	36.82	.37	37.19	2.62	6.93	11.83	22.31	7.97	-8.32	-.75		14.85	.34	3	7.27	6.72			
78	140	218	40.29	.72	41.01	4.25	6.87	11.78	22.26	6.62	-9.73	-.92	.08	14.51	.34	3	7.28	6.72			
78	141	219	45.48	.79	46.27	2.81	7.06	11.76	22.47	8.08	-8.33	-1.08	.11	14.17	.34	3	7.29	6.73			
78	142	220	49.16	.75	49.91	4.43	7.25	11.97	22.76	6.41	-10.07	-1.21	.13	13.81	.34	3	7.31	6.74			
78	143	221	54.56	.68	55.24	2.75	7.18	12.03	23.08	8.03	-8.79	-1.35	.14	13.45	.34	3	7.32	6.74			
78	144	222	58.44	.59	59.03	4.28	7.03	12.29	23.41	6.70	-10.58	-1.48	.15	13.08	.34	3	7.34	6.75			
78	145	223	64.03	.50	64.53	2.57	6.85	12.37	23.76	8.46	-9.33	-1.63	.15	12.70	.34	3	7.35	6.76			
78	146	224	68.11	.40	68.51	4.08	6.66	12.63	24.12	7.20	-11.13	-1.78	.16	12.31	.34	3	7.36	6.76			
78	147	225	73.90	.32	74.22	2.37	6.45	12.71	24.46	8.99	-9.88	-1.92	.16	11.92	.34	3	7.38	6.77			
78	148	226	78.18	.24	78.42	3.87	6.24	12.97	24.81	7.76	-11.67	-2.05	.16	11.52	.34	3	7.39	6.78			
78	149	227	84.15	.17	84.32	2.17	6.04	13.06	25.16	9.54	-10.44	-2.20	.16	11.11	.34	3	7.41	6.78			
78	150	228	88.62	.11	88.73	3.66	5.83	13.32	25.51	8.32	-12.22	-2.34	.16	10.69	.34	3	7.42	6.79			
78	151	229	94.77	.06	94.83	1.97	5.63	13.41	25.87	10.09	-11.00	-2.50	.16	10.27	.34	3	7.43	6.80			
78	152	230	99.43	.02	99.45	3.45	5.42	13.67	26.21	8.87	-12.77	-2.64	.16	9.84	.34	3	7.45	6.80			
78	153	231	105.76	-0.	105.76	1.77	5.22	13.75	26.56	10.65	-11.54	-2.78	.16	9.40	.34	3	7.46	6.81			
78	154	232	110.60	-.02	110.58	3.25	5.02	14.01	26.90	9.43	-13.31	-2.93	.16	8.96	.30	4	7.47	6.82			
78	155	233	117.10	-.02	117.08	1.58	4.82	14.10	27.25	11.19	-12.09	-3.08	.16	8.59	.30	4	7.49	6.82			
78	156	234	122.12	-.02	122.10	3.05	4.62	14.35	27.60	9.97	-13.84	-3.23	.16	8.21	.30	4	7.50	6.83			
78	157	235	128.80	0.	128.80	1.38	4.42	14.43	27.93	11.73	-12.62	-3.38	.16	7.83	.28	4	7.51	6.84			
78	158	236	133.99	.03	134.02	2.85	4.23	14.69	28.27	10.52	-14.36	-3.52	.16	7.49	.28	4	7.53	6.85			
78	159	237	140.83	.07	140.90	1.19	4.04	14.77	28.61	12.26	-13.15	-3.68	.16	7.15	.28	4	7.54	6.85			
78	160	238	146.20	.12	146.32	2.65	3.84	15.02	28.94	11.06	-14.87	-3.82	.16	6.81	.28	4	7.55	6.86			
78	161	239	153.20	.18	153.38	1.01	3.66	15.11	29.28	12.80	-13.66	-3.98	.16	6.46	.28	4	7.57	6.87			
78	162	240	158.73	.24	158.97	2.47	3.49	15.36	29.62	11.59	-15.39	-4.14	.15	6.15	.26	4	7.58	6.87			
78	163	241	165.89	.31	166.20	.84	3.32	15.45	29.97	13.32	-14.18	-4.31	.15	5.84	.26	4	7.59	6.88			
78	164	242	171.58	.38	171.96	2.31	3.15	15.71	30.31	12.11	-15.90	-4.48	.14	5.54	.26	4	7.61	6.89			
78	165	243	178.89	.45	179.34	.70	3.00	15.81	30.67	13.84	-14.70	-4.67	.14	5.23	.26	4	7.62	6.89			
78	166	244	184.75	.49	185.24	2.18	2.87	16.09	31.05	12.68	-16.41	-4.88	.12	4.94	.24	4	7.63	6.90			
78	167	245	192.21	.41	192.62	.68	2.87	16.31	31.55	14.48	-15.25	-5.24	.07	4.67	.24	4	7.64	6.91			
78	168	246	198.22	.02	198.24	2.46	3.14	16.91	32.33	13.27	-16.94	-5.89		4.41	.24	4	7.66	6.91			
78	169	247	205.83	-.42	205.41	.90	3.36	17.06	33.09	14.92	-15.70	-6.61		4.14	.24	4	7.67	6.92			
78	170	248	211.99	-.89	211.10	2.38	3.28	17.30	33.48	13.68	-17.34	-7.32		3.87	.24	4	7.68	6.93			
78	171	249	219.75	-1.39	218.36	.81	3.19	17.37	33.79	15.33	-16.10	-7.98		3.63	.22	4	7.70	6.93			
78	172	250	226.06	-1.90	224.16	2.28	3.08	17.60	34.08	14.10	-17.73	-8.27		3.40	.22	4	7.71	6.94			
78	173	251	233.96	-2.45	231.51	.71	3.00	17.67	34.39	15.74	-16.49	-8.49		3.17	.22	4	7.72	6.95			
78	174	252	240.41	-3.02	237.39	2.19	2.91	17.90	34.70	14.50	-18.12	-8.70		2.94	.22	4	7.73	6.95			
78	175	253	248.45	-3.61	244.84	.62	2.81	17.96	34.99	16.13	-16.87	-8.91		2.73	.20	4	7.75	6.96			
78	176	254	255.04	-4.23	250.81	2.10	2.72	18.19	35.29	14.89	-18.50	-9.12		2.54	.20	4	7.76	6.97			
78	177	255	263.21	-4.87	258.34	.55	2.64	18.26	35.59	16.51	-17.26	-9.34		2.34	.20	4	7.77	6.97			
78	178	256	269.95	-5.54	264.41	2.00	2.54	18.48	35.88	15.28	-18.88	-9.54		2.15	.18	4	7.78	6.98			
78	179	257	278.25	-6.23	272.02	.46	2.46	18.55	36.18	16.89	-17.64	-9.75		1.99	.18	4	7.80	6.99			
78	180	258	285.12	-6.94	278.18	1.91	2.37	18.77	36.46	15.67	-19.25	-9.95		1.83	.18	4	7.81	7.00			
78	181	259	293.55	-7.68	285.87	.38	2.30	18.84	36.76	17.27	-18.02	-10.17		1.67	.18	4	7.82	7.00			
78	182	260	300.56	-8.43	292.13	1.82	2.20	19.05	37.03	16.05	-19.60	-10.36		1.51	.18	4	7.83	7.01			
78	183	261	309.12	-9.22	299.90	.29	2.12	19.12	37.32	17.64	-18.38	-10.57		1.36	.16	4	7.85	7.02			
78	184	262	316.25	-10.02	306.23	1.74	2.04	19.34	37.60	16.42	-21.70	-10.77		1.24	.16	4	7.86	7.02			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
79	82	161	30.19	-8.06	22.13	14.93	28.40	-2.96	-3.66	-15.97	13.09	4.60		11.63	.30	4	6.35	6.36			
79	83	162	26.03	-7.12	18.91	11.29	26.21	-2.57	-3.12	-11.96	14.41	6.25		12.07	.30	4	6.37	6.37			
79	84	163	20.46	-6.24	14.22	12.76	24.05	-2.43	-2.59	-13.28	12.21	7.90		12.48	.30	4	6.39	6.38			
79	85	164	16.75	-5.41	11.34	10.95	23.71	-2.04	-2.06	-11.10	13.53	7.71		12.88	.30	4	6.41	6.38			
79	86	165	11.64	-4.64	7.00	12.41	23.36	-1.90	-1.54	-12.42	11.34	7.53		13.25	.30	4	6.43	6.39			
79	87	166	8.37	-3.91	4.46	10.62	23.02	-1.51	-1.02	-10.25	12.66	7.33		13.64	.32	4	6.44	6.39			
79	88	167	3.70	-3.24	.46	12.07	22.69	-1.38	-.50	-11.57	10.50	7.15		14.03	.32	4	6.46	6.40			
79	89	168	.86	-2.62	-1.76	10.29	22.37	-.99	.02	-9.42	11.81	6.95		14.41	.32	4	6.48	6.41			
79	90	169	-3.38	-2.04	-5.42	11.74	22.03	-.86	.52	-10.73	9.68	6.78		14.77	.32	4	6.50	6.41			
79	91	170	-5.80	-1.52	-7.32	9.97	21.71	-.49	1.03	-8.59	10.99	6.57		15.11	.32	4	6.52	6.42			
79	92	171	-9.62	-1.05	-10.67	11.42	21.39	-.36	1.53	-9.91	8.86	6.39		15.43	.32	4	6.53	6.43			
79	93	172	-11.64	-.62	-12.26	9.66	21.08	.02	2.03	-7.79	10.18	6.18		15.73	.32	4	6.55	6.43			
79	94	173	-15.06	-.24	-15.30	11.11	20.77	.15	2.46	-9.10	8.07	5.99		16.01	.32	4	6.57	6.44			
79	95	174	-16.69	.09	-16.60	9.37	20.48	.52	2.74	-7.00	9.45	5.78		16.27	.32	4	6.59	6.45			
79	96	175	-19.72	.38	-19.34	10.81	20.18	.57	2.97	-8.32	7.52	5.66		16.54	.34	4	6.60	6.45			
79	97	176	-20.97	.63	-20.34	9.08	19.89	.78	3.22	-6.22	9.00	5.68		16.80	.34	4	6.62	6.46			
79	98	177	-23.61	.82	-22.79	10.52	19.60	.74	3.49	-7.54	7.06	5.73	.04	17.04	.34	4	6.64	6.47	-20.62	2.99	2.17
79	99	178	-24.49	.92	-23.57	8.85	19.37	1.01	3.86	-5.53	8.42	5.71	.08	17.25	.34	4	6.66	6.47	-21.89	2.60	1.68
79	100	179	-26.76	.97	-25.79	10.29	19.14	1.08	4.27	-6.89	6.37	5.66	.09	17.45	.34	4	6.67	6.48	-24.34	2.42	1.45
79	101	180	-27.29	.99	-26.30	8.58	18.87	1.42	4.73	-4.90	7.65	5.56	.09	17.64	.34	4	6.69	6.49	-25.38	1.91	.92
79	102	181	-29.20	1.00	-28.20	9.98	18.55	1.54	5.18	-6.22	5.57	5.47	.10	17.80	.34	4	6.71	6.49	-27.42	1.78	.78
79	103	182	-29.37	1.00	-28.37	8.25	18.22	1.89	5.66	-4.17	6.84	5.35	.10	17.95	.34	4	6.72	6.50	-28.09	1.28	.28
79	104	183	-30.93	.98	-29.95	9.65	17.90	2.03	6.15	-5.43	4.75	5.22	.09	18.08	.34	4	6.74	6.51	-29.75	1.18	.20
79	105	184	-30.77	.94	-29.83	7.95	17.60	2.42	6.68	-3.36	5.97	5.03	.08	18.19	.34	4	6.76	6.51	-30.14	.63	-.31
79	106	185	-31.99	.87	-31.12	9.37	17.31	2.60	7.23	-4.60	3.87	4.83	.06	18.29	.36	4	6.77	6.52	-31.49	.50	-.37
79	107	186	-31.50	.73	-30.77	7.73	17.09	3.07	7.85	-2.57	5.04	4.53		18.38	.36	4	6.79	6.52	-31.50	0.	-.73
79	108	187	-32.38	.52	-31.86	9.17	16.89	3.34	8.51	-3.86	2.92	4.19		18.45	.36	4	6.81	6.53	-32.75	-.37	-.89
79	109	188	-31.57	.27	-31.30	7.50	16.68	3.81	9.21	-1.87	4.18	3.77		18.51	.36	4	6.82	6.54	-32.43	-.86	-1.13
79	110	189	-32.14	-.01	-32.15	8.92	16.43	3.96	9.89	-3.17	2.20	3.35		18.55	.36	4	6.84	6.54	-33.55	-1.41	-1.40
79	111	190	-31.01	-.33	-31.34	7.26	16.18	4.29	10.50	-1.18	3.50	2.90		18.58	.36	4	6.85	6.55	-32.89	-1.88	-1.55
79	112	191	-31.27	-.69	-31.96	8.68	15.95	4.41	10.97	-2.48	1.52	2.45		18.59	.36	4	6.87	6.56	-33.77	-2.50	-1.81
79	113	192	-29.84	-1.09	-30.93	7.04	15.72	4.73	11.42	-.52	2.81	2.06		18.51	.34	3	6.89	6.56	-32.74	-2.90	-1.81
79	114	193	-29.79	-1.51	-31.30	8.45	15.48	4.85	11.84	-1.81	.86	1.84		18.49	.34	3	6.90	6.57	-33.44	-3.65	-2.14
79	115	194	-28.07	-1.98	-30.05	6.82	15.27	5.18	12.29	.13	2.15	1.62		18.45	.34	3	6.92	6.58	-32.22	-4.15	-2.17
79	116	195	-27.72	-2.48	-30.20	8.22	15.04	5.29	12.72	-1.16	.20	1.41		18.39	.34	3	6.93	6.58	-32.56	-4.84	-2.36
79	117	196	-25.71	-3.01	-28.72	6.59	14.82	5.60	13.14	.78	1.50	1.20		18.32	.34	3	6.95	6.59	-31.15	-5.44	-2.43
79	118	197	-25.08	-3.57	-28.65	8.00	14.60	5.72	13.57	-.51	-.44	.99		18.24	.34	3	6.96	6.60	-31.16	-6.08	-2.51

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
79	119	198	-22.79	-4.17	-26.96	6.38	14.38	6.04	13.99	1.42	.86	.77		18.15	.34	3	6.98	6.60	-29.60	-6.81	-2.64
79	120	199	-21.87	-4.80	-26.67	7.78	14.16	6.14	14.41	.13	-1.06	.56		18.04	.34	3	6.99	6.61	-29.10	-7.23	-2.43
79	121	200	-19.32	-5.46	-24.78	6.18	13.96	6.46	14.83	2.04	.22	.34		17.92	.34	3	7.01	6.62	-27.31	-7.99	-2.53
79	122	201	-18.12	-6.16	-24.28	7.57	13.75	6.57	15.24	.76	-1.68	.13		17.79	.34	3	7.02	6.62	-26.16	-8.04	-1.88
79	123	202	-15.30	-6.89	-22.19	5.98	13.55	6.87	15.66	2.65	-.40	-.09		17.64	.34	3	7.04	6.63	-23.85	-8.55	-1.66
79	124	203	-13.84	-7.64	-21.48	7.37	13.34	6.98	16.06	1.37	-2.28	-.29		17.48	.34	3	7.05	6.64	-22.77	-8.93	-1.29
79	125	204	-10.76	-8.43	-19.19	5.78	13.15	7.28	16.47	3.26	-1.00	-.51		17.32	.34	3	7.07	6.64	-20.19	-9.43	-1.00
79	126	205	-9.04	-9.25	-18.29	7.17	12.95	7.39	16.88	1.97	-4.67	-.72		17.14	.34	3	7.08	6.65			
79	127	206	-5.71	-8.32	-14.03	3.81	10.98	7.69	17.29	5.63	-3.38	.84		16.94	.34	3	7.10	6.66			
79	128	207	-3.74	-7.43	-11.17	5.21	9.02	7.81	17.70	4.34	-5.24	2.40		16.74	.34	3	7.11	6.66			
79	129	208	-.17	-6.58	-6.75	3.65	8.86	8.11	18.12	6.19	-3.96	2.14		16.53	.34	3	7.13	6.67			
79	130	209	2.05	-5.77	-3.72	5.04	8.69	8.22	18.52	4.91	-5.81	1.90		16.30	.34	3	7.14	6.68			
79	131	210	5.86	-5.00	.86	3.49	8.54	8.52	18.92	6.75	-4.53	1.65		16.07	.34	3	7.16	6.68			
79	132	211	8.33	-4.27	4.06	4.87	8.37	8.62	19.31	5.48	-6.36	1.41		15.82	.34	3	7.17	6.69			
79	133	212	12.37	-3.58	8.79	3.33	8.22	8.91	19.72	7.30	-5.08	1.16		15.57	.34	3	7.19	6.70			
79	134	213	15.06	-2.92	12.14	4.72	8.06	9.02	20.11	6.02	-6.91	.92		15.30	.34	3	7.20	6.70			
79	135	214	19.33	-2.30	17.03	3.19	7.90	9.31	20.50	7.85	-5.63	.68		15.03	.34	3	7.22	6.71			
79	136	215	22.26	-1.73	20.53	4.56	7.76	9.41	20.89	6.57	-7.45	.43		14.74	.34	3	7.23	6.72			
79	137	216	26.74	-1.18	25.56	3.05	7.61	9.71	21.28	8.37	-6.17	.18		14.45	.34	3	7.25	6.72			
79	138	217	29.89	-.68	29.21	4.42	7.47	9.81	21.67	7.09	-7.98	-.06		14.14	.34	3	7.26	6.73			
79	139	218	34.60	-.21	34.39	2.90	7.32	10.09	21.91	8.90	-6.62	-.30		13.83	.34	3	7.27	6.74			
79	140	219	37.96	.23	38.19	4.27	7.17	10.11	21.89	7.62	-8.09	-.53		13.51	.34	3	7.29	6.74			
79	141	220	42.88	.62	43.50	2.76	7.04	10.06	21.82	9.41	-6.42	-.65	.05	13.18	.34	3	7.30	6.75			
79	142	221	46.46	.76	47.22	4.35	7.12	9.99	21.96	7.91	-8.02	-.71	.10	12.84	.34	3	7.32	6.76			
79	143	222	51.57	.76	52.33	2.96	7.31	10.20	22.23	9.35	-6.70	-.84	.12	12.49	.34	3	7.33	6.76			
79	144	223	55.36	.71	56.07	4.33	7.29	10.25	22.54	7.80	-8.46	-.95	.13	12.14	.34	3	7.34	6.77			
79	145	224	60.68	.64	61.32	2.82	7.15	10.50	22.86	9.46	-7.20	-1.09	.14	11.77	.34	3	7.36	6.78			
79	146	225	64.66	.56	65.22	4.16	6.99	10.59	23.22	8.15	-8.99	-1.23	.15	11.40	.34	3	7.37	6.78			
79	147	226	70.18	.49	70.67	2.63	6.78	10.84	23.55	9.92	-7.75	-1.36	.15	11.02	.34	3	7.39	6.79			
79	148	227	74.36	.42	74.78	3.96	6.59	10.93	23.90	8.67	-9.54	-1.50	.15	10.63	.34	3	7.40	6.80			
79	149	228	80.06	.35	80.41	2.44	6.39	11.19	24.26	10.43	-8.32	-1.65	.15	10.24	.34	3	7.41	6.80			
79	150	229	84.44	.30	84.74	3.75	6.18	11.28	24.60	9.20	-10.09	-1.79	.16	9.84	.34	3	7.43	6.81			
79	151	230	90.33	.25	90.58	2.23	5.98	11.54	24.95	10.97	-8.87	-1.93	.16	9.46	.30	4	7.44	6.82			
79	152	231	94.90	.22	95.12	3.54	5.76	11.63	25.29	9.76	-10.64	-2.07	.16	9.11	.30	4	7.45	6.82			
79	153	232	100.96	.19	101.15	2.03	5.57	11.89	25.65	11.51	-9.43	-2.23	.16	8.76	.30	4	7.47	6.83			
79	154	233	105.72	.18	105.90	3.33	5.36	11.97	25.98	10.31	-11.18	-2.35	.16	8.40	.30	4	7.48	6.84			
79	155	234	111.96	.17	112.13	1.83	5.17	12.24	26.34	12.05	-9.98	-2.51	.16	8.06	.28	4	7.49	6.84			
79	156	235	116.89	.18	117.07	3.14	4.97	12.33	26.68	10.84	-11.73	-2.66	.16	7.74	.28	4	7.51	6.85			
79	157	236	123.31	.19	123.50	1.64	4.77	12.58	27.02	12.59	-10.52	-2.81	.16	7.42	.28	4	7.52	6.86			
79	158	237	128.42	.22	128.64	2.93	4.57	12.67	27.36	11.39	-12.26	-2.95	.16	7.10	.28	4	7.53	6.86			
79	159	238	135.00	.26	135.26	1.45	4.39	12.93	27.70	13.13	-11.05	-3.11	.16	6.77	.28	4	7.55	6.87			
79	160	239	140.28	.30	140.58	2.75	4.20	13.02	28.05	11.92	-12.79	-3.26	.15	6.45	.26	4	7.56	6.88			
79	161	240	147.03	.35	147.38	1.27	4.02	13.28	28.39	13.65	-11.59	-3.43	.15	6.16	.26	4	7.57	6.88			
79	162	241	152.48	.41	152.89	2.57	3.84	13.37	28.73	12.46	-13.31	-3.58	.14	5.87	.26	4	7.59	6.89			
79	163	242	159.39	.46	159.85	1.11	3.67	13.64	29.09	14.20	-12.11	-3.77	.14	5.58	.26	4	7.60	6.90			
79	164	243	165.00	.50	165.50	2.42	3.53	13.75	29.46	13.02	-13.84	-3.97	.13	5.28	.26	4	7.61	6.90			
79	165	244	172.07	.50	172.57	1.01	3.42	14.07	29.87	14.82	-12.66	-4.21	.10	5.01	.24	4	7.63	6.91			
79	166	245	177.84	.30	178.14	2.49	3.50	14.38	30.48	13.73	-14.49	-4.67		4.76	.24	4	7.64	6.92			
79	167	246	185.06	-.09	184.97	1.24	3.74	14.94	31.25	15.39	-13.27	-5.32		4.50	.24	4	7.65	6.93			
79	168	247	190.99	-.50	190.49	2.56	3.79	15.04	31.95	14.15	-14.92	-5.98		4.24	.24	4	7.66	6.93			
79	169	248	198.36	-.94	197.42	1.14	3.69	15.28	32.34	15.80	-13.68	-6.65		3.98	.24	4	7.68	6.94			
79	170	249	204.44	-1.41	203.03	2.46	3.60	15.36	32.66	14.56	-15.33	-7.26		3.75	.22	4	7.69	6.95			
79	171	250	211.96	-1.90	210.06	1.05	3.50	15.59	32.96	16.20	-14.09	-7.55		3.52	.22	4	7.70	6.95			
79	172	251	218.19	-2.42	215.77	2.36	3.41	15.67	33.27	14.96	-15.74	-7.76		3.30	.22	4	7.72	6.96			
79	173	252	225.85	-2.96	222.89	.96	3.31	15.91	33.58	16.60	-14.50	-7.98		3.07	.22	4	7.73	6.97			
79	174	253	232.23	-3.53	228.70	2.26	3.22	15.98	33.88	15.36	-16.13	-8.19		2.86	.20	4	7.74	6.97			
79	175	254	240.04	-4.12	235.92	.86	3.12	16.20	34.17	16.99	-14.89	-8.39		2.67	.20	4	7.75	6.98			
79	176	255	246.56	-4.73	241.83	2.16	3.02	16.27	34.46	15.77	-16.51	-8.59		2.48	.20	4	7.77	6.99			
79	177	256	254.50	-5.37	249.13	.77	2.93	16.50	34.76	17.38	-15.28	-8.81		2.29	.20	4	7.78	6.99			
79	178	257	261.16	-6.03	255.13	2.07	2.84	16.57	35.05	16.15	-16.89	-9.01		2.12	.18	4	7.79	7.00			
79	179	258	269.23	-6.72	262.51	.69	2.76	16.80	35.35	17.75	-15.67	-9.23		1.96	.18	4	7.80	7.01			
79	180	259	276.04	-7.43	268.61	1.98	2.66	16.86	35.63	16.54	-17.27	-9.42		1.81	.18	4	7.82	7.01			
79	181	260	284.24	-8.16	276.08	.60	2.58	17.09	35.92	18.14	-16.04	-9.63		1.65	.18	4	7.83	7.02			
79	182	261	291.18	-8.92	282.26	1.89	2.49	17.15	36.21	16.91	-17.64	-9.83		1.49	.18	4	7.84	7.03			
79	183	262	299.51	-9.70	289.81	.52	2.41	17.38	36.50	18.50	-16.42	-10.04		1.36	.16	4	7.85	7.03			
79	184	263	306.58	-10.50	296.08	1.80	2.32	17.44	36.78	17.28	-19.73	-10.24		1.23	.16	4	7.86	7.04			
79	186	265	322.23	-8.73	313.50	.01	-1.28	17.74	37.36	19.36	-20.09	-7.20		.99	.14	4	7.89	7.05			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
80	78	158	63.76	-5.80	57.96	16.52	31.33	-2.85	-7.26	-20.99	16.13	5.29		8.42	.26	4	6.28	6.36			
80	79	159	58.13	-6.48	51.65	14.38	30.90	-2.53	-6.35	-18.72	17.27	5.18		8.87	.28	4	6.30	6.37			
80	80	160	50.84	-7.20	43.64	16.08	30.47	-1.97	-5.46	-20.02	14.66	5.09		9.30	.28	4	6.32	6.37			
80	81	161	46.06	-7.97	38.09	13.61	29.70	-1.82	-4.92	-17.43	15.96	4.95		9.71	.28	4	6.34	6.38			
80	82	162	39.64	-8.77	30.87	15.30	28.91	-1.45	-4.42	-18.54	11.97	4.84		10.11	.28	4	6.36	6.38			
80	83	163	35.34	-7.84	27.50	11.43	26.74	-1.31	-3.88	-14.36	13.28	6.48		10.49	.28	4	6.38	6.39			
80	84	164	29.39	-6.95	22.44	13.14	24.57	-.93	-3.36	-15.67	11.10	8.14		10.85	.28	4	6.40	6.40			
80	85	165	25.54	-6.12	19.42	11.09	24.23	-.79	-2.83	-13.48	12.42	7.95		11.26	.30	4	6.42	6.40			
80	86	166	20.05	-5.35	14.70	12.79	23.88	-.41	-2.31	-14.80	10.24	7.78		11.65	.30	4	6.43	6.41			
80	87	167	16.65	-4.62	12.03	10.75	23.53	-.28	-1.79	-12.62	11.57	7.59		12.03	.30	4	6.45	6.42			
80	88	168	11.61	-3.95	7.66	12.44	23.19	.09	-1.29	-13.93	9.41	7.42		12.39	.30	4	6.47	6.42			
80	89	169	8.63	-3.33	5.30	10.43	22.87	.23	-.76	-11.79	10.72	7.22		12.73	.30	4	6.49	6.43			
80	90	170	4.03	-2.76	1.27	12.10	22.53	.59	-.26	-13.09	8.59	7.05		13.05	.30	4	6.51	6.44			
80	91	171	1.47	-2.23	-.76	10.10	22.21	.73	.24	-10.95	9.91	6.85		13.35	.30	4	6.53	6.44			
80	92	172	-2.72	-1.76	-4.48	11.78	21.89	1.10	.75	-12.26	7.78	6.67		13.66	.32	4	6.54	6.45			
80	93	173	-4.87	-1.33	-6.20	9.80	21.58	1.22	1.24	-10.14	9.10	6.47		13.98	.32	4	6.56	6.46			
80	94	174	-8.65	-.95	-9.60	11.47	21.27	1.58	1.74	-11.44	7.00	6.29		14.28	.32	4	6.58	6.46			
80	95	175	-10.41	-.61	-11.02	9.50	20.96	1.71	2.23	-9.33	8.32	6.09		14.56	.32	4	6.60	6.47			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
80	96	176	-13.79	-.32	-14.11	11.16	20.66	2.07	2.63	-10.63	6.23	5.91		14.83	.32	4	6.61	6.47			
80	97	177	-15.17	-.08	-15.25	9.20	20.37	2.20	2.97	-8.55	7.54	5.69		15.07	.32	4	6.63	6.48			
80	98	178	-18.17	.12	-18.05	10.87	20.08	2.54	3.29	-9.86	5.52	5.58		15.30	.32	4	6.65	6.49			
80	99	179	-19.18	.28	-18.90	8.93	19.79	2.62	3.63	-7.79	6.89	5.53		15.51	.32	4	6.66	6.49	-16.13	3.05	2.77
80	100	180	-21.80	.40	-21.40	10.58	19.50	2.90	3.98	-9.08	4.89	5.51		15.71	.32	4	6.68	6.50	-19.30	2.50	2.10
80	101	181	-22.45	.47	-21.98	8.65	19.23	2.98	4.39	-7.03	6.21	5.45		15.88	.32	4	6.70	6.51	-20.12	2.33	1.86
80	102	182	-24.70	.50	-24.20	10.29	18.94	3.30	4.83	-8.32	4.17	5.37		16.05	.34	4	6.71	6.51	-22.66	2.04	1.54
80	103	183	-25.00	.49	-24.51	8.38	18.67	3.43	5.31	-6.28	5.44	5.23		16.22	.34	4	6.73	6.52	-23.42	1.58	1.09
80	104	184	-26.91	.44	-26.47	10.03	18.41	3.81	5.84	-7.58	3.36	5.06		16.37	.34	4	6.75	6.53	-25.59	1.32	.88
80	105	185	-26.87	.35	-26.52	8.13	18.15	3.98	6.40	-5.56	4.60	4.83		16.50	.34	4	6.76	6.53	-25.93	.94	.59
80	106	186	-28.42	.22	-28.20	9.75	17.88	4.37	6.97	-6.85	2.57	4.59		16.62	.34	4	6.78	6.54	-27.96	.46	.24
80	107	187	-28.05	.05	-28.00	7.87	17.63	4.52	7.59	-4.84	3.87	4.28		16.72	.34	4	6.80	6.55	-27.91	.14	.09
80	108	188	-29.28	-.16	-29.44	9.50	17.38	4.86	8.21	-6.14	1.86	3.94		16.80	.34	4	6.81	6.55	-29.52	-.24	-.08
80	109	189	-28.58	-.40	-28.98	7.62	17.12	4.97	8.78	-4.14	3.17	3.58		16.87	.34	4	6.83	6.56	-29.35	-.77	-.37
80	110	190	-29.48	-.68	-30.16	9.25	16.87	5.30	9.26	-5.43	1.19	3.22		16.92	.34	4	6.85	6.57	-30.89	-1.41	-.73
80	111	191	-28.48	-1.00	-29.48	7.39	16.64	5.42	9.71	-3.45	2.48	2.87		16.96	.34	4	6.86	6.57	-30.47	-1.99	-.99
80	112	192	-29.06	-1.35	-30.41	9.01	16.39	5.74	10.15	-4.74	.52	2.65		16.98	.34	4	6.88	6.58	-31.84	-2.78	-1.43
80	113	193	-27.75	-1.74	-29.49	7.16	16.16	5.85	10.59	-2.77	1.81	2.43		16.99	.34	4	6.89	6.59	-31.10	-3.35	-1.61
80	114	194	-28.02	-2.17	-30.19	8.77	15.93	6.17	11.03	-4.06	-.14	2.23		16.98	.34	4	6.91	6.59	-32.17	-4.15	-1.98
80	115	195	-26.41	-2.63	-29.04	6.92	15.69	6.28	11.46	-2.10	1.16	2.01		16.96	.36	4	6.92	6.60	-31.16	-4.75	-2.12
80	116	196	-26.38	-3.12	-29.50	8.53	15.46	6.59	11.88	-3.38	-.78	1.82		16.93	.36	4	6.94	6.60	-31.84	-5.46	-2.34
80	117	197	-24.49	-3.65	-28.14	6.71	15.24	6.71	12.32	-1.45	.51	1.60		16.89	.36	4	6.96	6.61	-30.75	-6.26	-2.61
80	118	198	-24.17	-4.21	-28.38	8.31	15.02	7.02	12.74	-2.73	-1.42	1.39		16.83	.36	4	6.97	6.62	-30.97	-6.80	-2.59
80	119	199	-22.00	-4.80	-26.80	6.50	14.80	7.13	13.16	-.80	-.13	1.18		16.76	.36	4	6.99	6.62	-29.55	-7.55	-2.75
80	120	200	-21.39	-5.43	-26.82	8.09	14.58	7.44	13.58	-2.08	-2.04	.97		16.68	.36	4	7.00	6.63	-29.51	-8.12	-2.69
80	121	201	-18.95	-6.09	-25.04	6.29	14.38	7.55	14.01	-.18	-.76	.75		16.58	.36	4	7.02	6.64	-27.66	-8.71	-2.62
80	122	202	-18.06	-6.78	-24.84	7.88	14.16	7.85	14.41	-1.45	-2.65	.55		16.43	.34	3	7.03	6.64	-27.35	-9.29	-2.51
80	123	203	-15.35	-7.50	-22.85	6.08	13.96	7.95	14.83	.45	-1.37	.34		16.30	.34	3	7.05	6.65	-25.27	-9.92	-2.42
80	124	204	-14.19	-8.26	-22.45	7.66	13.75	8.25	15.24	-.83	-3.26	.13		16.16	.34	3	7.06	6.66	-24.69	-10.50	-2.24
80	125	205	-11.23	-9.04	-20.27	5.89	13.56	8.36	15.65	1.05	-1.98	-.09		16.01	.34	3	7.08	6.66	-22.28	-11.05	-2.01
80	126	206	-9.80	-9.85	-19.65	7.46	13.34	8.65	16.04	-.21	-5.62	-.28		15.85	.34	3	7.09	6.67	-20.94	-11.14	-1.29
80	127	207	-6.58	-8.92	-15.50	3.92	11.38	8.76	16.46	3.44	-4.33	1.27		15.68	.34	3	7.11	6.68			
80	128	208	-4.91	-8.03	-12.94	5.51	9.43	9.06	16.87	2.16	-6.19	2.82		15.49	.34	3	7.12	6.68			
80	129	209	-1.44	-7.19	-8.63	3.76	9.27	9.17	17.28	4.01	-4.91	2.57		15.29	.34	3	7.14	6.69			
80	130	210	.49	-6.38	-5.89	5.33	9.09	9.46	17.68	2.74	-6.75	2.34		15.09	.34	3	7.15	6.70			
80	131	211	4.19	-5.61	-1.42	3.60	8.94	9.57	18.09	4.58	-5.48	2.08		14.87	.34	3	7.17	6.70			
80	132	212	6.36	-4.88	1.48	5.17	8.77	9.86	18.49	3.30	-7.31	1.84		14.64	.34	3	7.18	6.71			
80	133	213	10.30	-4.18	6.12	3.44	8.61	9.96	18.88	5.14	-6.02	1.60		14.40	.34	3	7.19	6.72			
80	134	214	12.71	-3.53	9.18	5.01	8.45	10.25	19.27	3.87	-7.85	1.37		14.15	.34	3	7.21	6.72			
80	135	215	16.88	-2.91	13.97	3.29	8.29	10.35	19.66	5.70	-6.56	1.13		13.89	.34	3	7.22	6.73			
80	136	216	19.52	-2.33	17.19	4.85	8.13	10.63	20.05	4.43	-8.37	.89		13.62	.34	3	7.24	6.74			
80	137	217	23.91	-1.79	22.12	3.14	7.99	10.73	20.44	6.24	-7.10	.64		13.34	.34	3	7.25	6.74			
80	138	218	26.77	-1.28	25.49	4.70	7.84	11.02	20.82	4.96	-8.90	.41		13.06	.34	3	7.27	6.75			
80	139	219	31.38	-.81	30.57	3.00	7.69	11.11	21.20	6.77	-7.62	.17		12.76	.34	3	7.28	6.76			
80	140	220	34.47	-.38	34.09	4.54	7.54	11.39	21.50	5.50	-9.41	-.07		12.45	.34	3	7.29	6.76			
80	141	221	39.28	.02	39.30	2.86	7.41	11.48	21.55	7.28	-7.91	-.32		12.14	.34	3	7.31	6.77			
80	142	222	42.59	.39	42.98	4.40	7.25	11.52	21.51	6.03	-9.35	-.46		11.81	.34	3	7.32	6.78			
80	143	223	47.61	.67	48.28	2.77	7.17	11.34	21.53	7.75	-7.79	-.42	.08	11.48	.34	3	7.34	6.78			
80	144	224	51.12	.73	51.85	4.49	7.27	11.50	21.76	6.25	-9.46	-.49	.11	11.14	.34	3	7.35	6.79			
80	145	225	56.35	.72	57.07	2.86	7.35	11.53	22.03	7.75	-8.16	-.59	.12	10.79	.34	3	7.36	6.80			
80	146	226	60.07	.68	60.75	4.39	7.25	11.76	22.35	6.25	-9.91	-.70	.13	10.45	.32	4	7.38	6.80			
80	147	227	65.48	.63	66.11	2.71	7.10	11.84	22.68	7.91	-8.67	-.84	.14	10.12	.30	4	7.39	6.81			
80	148	228	69.41	.57	69.98	4.20	6.91	12.08	23.01	6.62	-10.43	-.96	.14	9.80	.30	4	7.41	6.82			
80	149	229	75.01	.52	75.53	2.52	6.73	12.17	23.37	8.36	-9.21	-1.11	.15	9.48	.30	4	7.42	6.82			
80	150	230	79.13	.47	79.60	4.00	6.52	12.42	23.71	7.13	-10.98	-1.24	.15	9.16	.30	4	7.43	6.83			
80	151	231	84.93	.43	85.36	2.31	6.32	12.50	24.05	8.89	-9.75	-1.38	.15	8.83	.30	4	7.45	6.84			
80	152	232	89.24	.40	89.64	3.79	6.11	12.76	24.39	7.67	-11.51	-1.51	.15	8.51	.28	4	7.46	6.84			
80	153	233	95.21	.38	95.59	2.12	5.91	12.85	24.74	9.43	-10.30	-1.67	.15	8.21	.28	4	7.47	6.85			
80	154	234	99.71	.37	100.08	3.59	5.70	13.11	25.08	8.22	-12.05	-1.80	.15	7.91	.28	4	7.49	6.86			
80	155	235	105.87	.36	106.23	1.92	5.51	13.19	25.43	9.98	-10.84	-1.95	.15	7.60	.28	4	7.50	6.86			
80	156	236	110.55	.37	110.92	3.38	5.30	13.44	25.77	8.78	-12.58	-2.09	.15	7.30	.28	4	7.51	6.87			
80	157	237	116.87	.38	117.25	1.73	5.12	13.54	26.13	10.52	-11.39	-2.26	.15	6.98	.28	4	7.53	6.88			
80	158	238	121.73	.40	122.13	3.19	4.92	13.80	26.47	9.32	-13.13	-2.40	.15	6.69	.26	4	7.54	6.88			
80	159	239	128.23	.43	128.66	1.54	4.74	13.89	26.82	11.07	-11.92	-2.56	.14	6.41	.26	4	7.55	6.89			
80	160	240	133.26	.46	133.72	3.01	4.56	14.15	27.17	9.87	-13.66	-2.73	.14	6.14	.26	4	7.57	6.90			
80	161	241	139.93	.50	140.43	1.37	4.38	14.24	27.52	11.64	-12.45	-2.90	.13	5.86	.26	4	7.58	6.90			
80	162	242	145.13	.52	145.65	2.84	4.22	14.52	27.90	10.47	-14.20	-3.09	.12	5.57	.26	4	7.59	6.91			
80	163	243	151.96	.52	152.48	1.25	4.09	14.66	28.30	12.30	-13.02	-3.32	.11	5.29	.24	4	7.61	6.92			
80	164	244	157.33	.42	157.75	2.80	4.05	15.04	28.79	11.27	-14.81	-3.64	.05	5.05	.24	4	7.62	6.92			
80	165	245	164.31	.10	164.41	1.41	4.21	15.45	29.51	12.95	-13.73	-4.21		4.80	.24	4	7.63	6.93			
80	166	246	169.85	-.26	169.59	2.89	4.30	15.84	30.22	11.72	-15.38	-4.80		4.55	.24	4	7.64	6.94			
80	167	247	176.99	-.65	176.34	1.31	4.21	15.92	30.87	13.37	-14.15	-5.43		4.30	.24	4	7.66	6.94			
80	168	248	182.68	-1.06	181.62	2.79	4.11	16.16	31.20	12.14	-15.80	-6.04		4.05	.22	4	7.67	6.95			
80	169	249	189.97	-1.50	188.47	1.22	4.01	16.23	31.52	13.79	-14.56	-6.58		3.83	.22	4	7.68	6.96			
80	170	250	195.82	-1.96	193.86	2.69	3.90	16.47	31.82	12.56	-16.20	-6.81		3.61	.22	4	7.70	6.96			
80	171	251	203.26	-2.45	200.81	1.12	3.80	16.54	32.13	14.21	-14.96	-7.03		3.40	.22	4	7.71	6.97			
80	172	252	209.26	-2.97	206.29	2.58	3.71	16.77	32.44	12.97	-16.60	-7.24		3.18	.22	4	7.72	6.98			
80	173	253	216.84	-3.50	213.34	1.03	3.61	16.85	32.74	14.61	-15.37	-7.45		2.97	.20	4	7.73	6.98			
80	174	254	222.99	-4.07	218.92	2.49	3.52	17.07	33.05	13.38	-17.00	-7.66		2.78	.20	4	7.75	6.99			
80	175	255	230.72	-4.66	226.06	.93	3.42	17.14	33.35	15.00	-15.77	-7.87		2.60	.20	4	7.76	7.00			
80	176	256	237.02	-5.27	231.75	2.38	3.32	17.36	33.64	13.79	-17.38	-8.07		2.41	.20	4	7.77	7.00			
80	177	257	244.88	-5.90	238.98	.84	3.23	17.44	33.94	15.40	-16.15	-8.28		2.23	.18	4	7.78	7.01			
80	178	258	251.32	-6.56	244.76	2.29	3.13	17.66	34.23	14.18	-17.75	-8.48		2.08	.18	4	7.80	7.02			
80	179	259	259.32	-7.25	252.07	.75	3.05	17.73	34.53	15.79	-16.53	-8.69		1.92	.18	4	7.81	7.02			
80	180	260	265.90	-7.95	257.95	2.20	2.95	17.95	34.81	14.57	-18.13	-8.88		1.77	.18	4	7.82	7.03			
80	181	261	274.03	-8.68	265.35	.67	2.87	18.02	35.11	16.17	-16.91	-9.10		1.61	.18	4	7.83	7.04			
80	182	262	280.75	-9.44	271.31	2.11	2.78	18.23	35.39	14.95	-18.50	-9.30		1.47	.16	4	7.85	7.04			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
80	183	263	289.01	-10.21	278.80	.58	2.69	18.30	35.68	16.55	-17.28	-9.50		1.34	.16	4	7.86	7.05			
80	184	264	295.86	-11.01	284.85	2.02	2.60	18.52	35.96	15.33	-20.59	-9.70		1.22	.16	4	7.87	7.06			
80	186	266	311.23	-9.24	301.99	.22	-1.00	18.80	36.54	17.42	-20.93	-6.67		.98	.14	4	7.90	7.07			
80	188	268	326.85	-7.60	319.25	.16	-1.12	19.09	37.12	17.77	-21.28	-7.12		.79	.14	4	7.92	7.09			
80	190	270	342.72	-6.07	336.65	.09	-1.25	19.37	37.68	18.13	-21.62	-7.56		.61	.12	4	7.94	7.10			
80	192	272	358.84	-4.66	354.18	.02	-1.38	19.64	38.23	18.48	-21.95	-7.99		2.47	.19	ALP	7.97	7.11			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
81	85	166	36.38	-6.88	29.50	11.47	24.75	-2.79	-3.58	-12.37	14.79	8.17		9.83	.28	4	6.43	6.43			
81	86	167	30.75	-6.10	24.65	12.92	24.40	-2.65	-3.07	-13.68	12.62	8.01		10.18	.28	4	6.44	6.43			
81	87	168	26.97	-5.38	21.59	11.13	24.05	-2.28	-2.55	-11.52	13.93	7.82		10.51	.28	4	6.46	6.44			
81	88	169	21.79	-4.70	17.09	12.58	23.70	-2.14	-2.05	-12.82	11.78	7.66		10.83	.28	4	6.48	6.45			
81	89	170	18.44	-4.08	14.36	10.80	23.37	-1.76	-1.53	-10.68	13.09	7.47		11.14	.30	4	6.50	6.45			
81	90	171	13.69	-3.51	10.18	12.25	23.05	-1.62	-1.02	-12.00	10.94	7.29		11.48	.30	4	6.52	6.46			
81	91	172	10.76	-2.98	7.78	10.48	22.72	-1.25	-.52	-9.87	12.25	7.11		11.80	.30	4	6.53	6.46			
81	92	173	6.44	-2.51	3.93	11.92	22.40	-1.12	-.02	-11.18	10.13	6.93		12.11	.30	4	6.55	6.47			
81	93	174	3.92	-2.08	1.84	10.17	22.08	-.75	.47	-9.06	11.44	6.74		12.40	.30	4	6.57	6.48			
81	94	175	.01	-1.70	-1.69	11.60	21.77	-.62	.97	-10.37	9.33	6.56		12.67	.30	4	6.59	6.48			
81	95	176	-2.12	-1.36	-3.48	9.86	21.47	-.26	1.46	-8.28	10.64	6.36		12.93	.30	4	6.60	6.49			
81	96	177	-5.63	-1.07	-6.70	11.29	21.16	-.13	1.94	-9.58	8.55	6.18		13.17	.30	4	6.62	6.50			
81	97	178	-7.37	-.82	-8.19	9.57	20.86	.23	2.43	-7.50	9.85	5.98		13.39	.30	4	6.64	6.50			
81	98	179	-10.49	-.62	-11.11	10.99	20.56	.35	2.90	-8.79	7.79	5.80		13.60	.32	4	6.66	6.51			
81	99	180	-11.86	-.46	-12.32	9.28	20.27	.71	3.33	-6.73	9.08	5.60		13.83	.32	4	6.67	6.52			
81	100	181	-14.61	-.34	-14.95	10.70	19.98	.84	3.74	-8.03	7.03	5.42		14.05	.32	4	6.69	6.52			
81	101	182	-15.61	-.27	-15.88	9.00	19.70	1.18	4.17	-5.99	8.32	5.26		14.25	.32	4	6.71	6.53			
81	102	183	-18.00	-.23	-18.23	10.42	19.42	1.32	4.61	-7.28	6.29	5.14		14.43	.32	4	6.72	6.53			
81	103	184	-18.65	-.24	-18.89	8.73	19.15	1.66	5.09	-5.26	7.58	4.98		14.59	.32	4	6.74	6.54			
81	104	185	-20.67	-.29	-20.96	10.14	18.88	1.78	5.59	-6.55	5.56	4.81		14.74	.32	4	6.76	6.55			
81	105	186	-20.98	-.37	-21.35	8.47	18.61	2.13	6.10	-4.53	6.85	4.60		14.87	.32	4	6.77	6.55			
81	106	187	-22.66	-.50	-23.16	9.88	18.34	2.25	6.62	-5.82	4.84	4.37		14.98	.32	4	6.79	6.56	-21.51	1.15	1.65
81	107	188	-22.63	-.67	-23.30	8.21	18.09	2.58	7.11	-3.82	6.13	4.10		15.09	.32	4	6.81	6.57	-21.92	.71	1.38
81	108	189	-23.98	-.87	-24.85	9.62	17.83	2.71	7.56	-5.12	4.13	3.84		15.17	.32	4	6.82	6.57	-23.65	.33	1.20
81	109	190	-23.62	-1.11	-24.73	7.96	17.58	3.03	8.01	-3.12	5.43	3.61		15.24	.32	4	6.84	6.58	-23.89	-.27	.84
81	110	191	-24.64	-1.39	-26.03	9.37	17.33	3.16	8.46	-4.42	3.45	3.41		15.30	.32	4	6.85	6.59	-25.47	-.83	.56
81	111	192	-23.97	-1.70	-25.67	7.72	17.08	3.48	8.90	-2.44	4.74	3.20		15.34	.32	4	6.87	6.59	-25.54	-1.57	.13
81	112	193	-24.67	-2.05	-26.72	9.12	16.84	3.60	9.34	-3.73	2.77	3.01		15.38	.34	4	6.89	6.60	-26.9[illegible]	-2.23	-.18
81	113	194	-23.69	-2.44	-26.13	7.48	16.60	3.93	9.78	-1.77	4.05	2.79		15.41	.34	4	6.90	6.61	-26.67	-2.98	-.54
81	114	195	-24.08	-2.86	-26.94	8.88	16.36	4.04	10.21	-3.06	2.10	2.59		15.42	.34	4	6.92	6.61	-27.96	-3.88	-1.02
81	115	196	-22.80	-3.31	-26.11	7.25	16.12	4.36	10.64	-1.10	3.39	2.39		15.42	.34	4	6.93	6.62	-27.44	-4.64	-1.33
81	116	197	-22.89	-3.80	-26.69	8.65	15.90	4.48	11.07	-2.39	1.45	2.19		15.40	.34	4	6.95	6.63	-28.35	-5.46	-1.66
81	117	198	-21.32	-4.33	-25.65	7.03	15.68	4.80	11.51	-.46	2.73	1.97		15.37	.34	4	6.96	6.63	-27.51	-6.19	-1.86
81	118	199	-21.11	-4.89	-26.00	8.42	15.45	4.91	11.93	-1.74	.80	1.77		15.33	.34	4	6.98	6.64	-28.15	-7.04	-2.15
81	119	200	-19.26	-5.48	-24.74	6.81	15.23	5.22	12.36	.17	2.08	1.56		15.27	.34	4	6.99	6.64	-27.05	-7.79	-2.31
81	120	201	-18.76	-6.10	-24.86	8.19	15.01	5.33	12.77	-1.10	.18	1.36		15.20	.34	4	7.01	6.65	-27.25	-8.49	-2.39
81	121	202	-16.64	-6.75	-23.39	6.60	14.80	5.65	13.19	.80	1.45	1.15		15.12	.34	4	7.02	6.66	-26.11	-9.47	-2.72
81	122	203	-15.86	-7.44	-23.30	7.98	14.58	5.75	13.60	-.47	-.45	.95		15.02	.34	4	7.04	6.66	-25.76	-9.90	-2.46
81	123	204	-13.47	-8.16	-21.63	6.40	14.38	6.06	14.02	1.41	.82	.73		14.91	.34	4	7.05	6.67	-24.34	-10.87	-2.71
81	124	205	-12.42	-8.90	-21.32	7.77	14.16	6.17	14.41	.15	-1.06	.54		14.79	.34	4	7.07	6.68	-23.81	-11.39	-2.49
81	125	206	-9.76	-9.68	-19.44	6.19	13.96	6.47	14.82	2.03	.22	.32		14.66	.34	4	7.08	6.68	-22.24	-12.48	-2.80
81	126	207	-8.45	-10.49	-18.94	7.57	13.76	6.57	15.23	.75	-3.43	.12		14.51	.34	4	7.10	6.69	-21.01	-12.56	-2.07
81	127	208	-5.53	-9.56	-15.09	4.22	11.79	6.88	15.64	4.40	-2.15	1.68		14.35	.34	4	7.11	6.70	-16.75	-11.22	-1.66
81	128	209	-3.96	-8.68	-12.64	5.61	9.84	6.98	16.05	3.11	-4.01	3.23		14.19	.34	4	7.13	6.70	-13.63	-9.67	-.99
81	129	210	-.80	-7.83	-8.63	4.06	9.68	7.29	16.46	4.96	-2.74	2.98		14.01	.34	4	7.14	6.71	-9.22	-8.42	-.59
81	130	211	1.02	-7.02	-6.00	5.44	9.50	7.40	16.86	3.69	-4.58	2.74		13.82	.34	4	7.16	6.72			
81	131	212	4.43	-6.25	-1.82	3.89	9.34	7.69	17.26	5.53	-3.31	2.50		13.61	.34	4	7.17	6.72			
81	132	213	6.50	-5.52	.98	5.27	9.17	7.80	17.65	4.26	-5.14	2.27		13.40	.34	4	7.19	6.73			
81	133	214	10.14	-4.83	5.31	3.74	9.01	8.09	18.06	6.08	-3.87	2.02		13.18	.34	4	7.20	6.74			
81	134	215	12.45	-4.17	8.28	5.11	8.84	8.19	18.44	4.82	-5.68	1.80		12.95	.34	4	7.22	6.74			
81	135	216	16.32	-3.56	12.76	3.58	8.69	8.49	18.84	6.62	-4.43	1.54		12.70	.34	4	7.23	6.75			
81	136	217	18.86	-2.98	15.88	4.95	8.54	8.59	19.23	5.36	-6.24	1.31		12.45	.34	4	7.25	6.76			
81	137	218	22.96	-2.43	20.53	3.43	8.38	8.88	19.61	7.17	-4.96	1.08		12.19	.34	4	7.26	6.76			
81	138	219	25.73	-1.93	23.80	4.79	8.23	8.98	20.00	5.90	-6.77	.84		11.93	.32	4	7.27	6.77			
81	139	220	30.05	-1.45	28.60	3.28	8.07	9.26	20.37	7.70	-5.49	.61		11.66	.32	4	7.29	6.78			
81	140	221	33.04	-1.02	32.02	4.64	7.93	9.36	20.75	6.43	-7.29	.38		11.38	.32	4	7.30	6.78			
81	141	222	37.57	-.62	36.95	3.14	7.78	9.64	21.13	8.21	-6.03	.13		11.10	.32	4	7.32	6.79			
81	142	223	40.78	-.25	40.53	4.49	7.63	9.74	21.26	6.95	-7.74	-.09		10.81	.30	4	7.33	6.80			
81	143	224	45.52	.08	45.60	3.00	7.50	9.96	21.31	8.72	-6.26	-.32		10.54	.30	4	7.34	6.80			
81	144	225	48.94	.38	49.32	4.35	7.35	9.83	21.32	7.46	-7.75	-.32		10.27	.30	4	7.36	6.81			
81	145	226	53.88	.62	54.50	2.90	7.25	9.86	21.39	9.19	-6.25	-.25	.07	9.98	.30	4	7.37	6.82			
81	146	227	57.51	.69	58.20	4.37	7.27	9.84	21.60	7.77	-7.91	-.29	.10	9.70	.30	4	7.39	6.82			
81	147	228	62.66	.70	63.36	2.92	7.29	10.04	21.88	9.34	-6.62	-.38	.11	9.40	.30	4	7.40	6.83			
81	148	229	66.49	.68	67.17	4.26	7.18	10.10	22.19	7.90	-8.37	-.48	.12	9.10	.30	4	7.41	6.84			
81	149	230	71.82	.65	72.47	2.77	7.03	10.35	22.52	9.48	-7.14	-.62	.13	8.82	.28	4	7.43	6.84			
81	150	231	75.85	.62	76.47	4.08	6.84	10.43	22.85	8.18	-8.89	-.73	.13	8.55	.28	4	7.44	6.85			
81	151	232	81.38	.59	81.97	2.57	6.65	10.68	23.19	9.89	-7.67	-.87	.14	8.27	.28	4	7.45	6.86			
81	152	233	85.60	.56	86.16	3.88	6.45	10.76	23.53	8.65	-9.43	-1.00	.14	7.99	.28	4	7.47	6.86			
81	153	234	91.31	.54	91.85	2.38	6.26	11.03	23.88	10.38	-8.23	-1.15	.14	7.70	.28	4	7.48	6.87			
81	154	235	95.72	.53	96.25	3.68	6.05	11.11	24.22	9.17	-9.98	-1.29	.14	7.41	.28	4	7.49	6.88			
81	155	236	101.61	.53	102.14	2.19	5.86	11.38	24.57	10.92	-8.77	-1.44	.14	7.11	.28	4	7.51	6.88			
81	156	237	106.21	.53	106.74	3.47	5.65	11.46	24.91	9.73	-10.51	-1.58	.14	6.85	.26	4	7.52	6.89			
81	157	238	112.28	.53	112.81	1.99	5.47	11.73	25.27	11.47	-9.32	-1.75	.13	6.59	.26	4	7.53	6.90			
81	158	239	117.05	.54	117.59	3.29	5.29	11.83	25.63	10.29	-11.07	-1.91	.13	6.33	.26	4	7.55	6.90			
81	159	240	123.29	.55	123.84	1.82	5.11	12.11	26.00	12.06	-9.89	-2.09	.12	6.06	.26	4	7.56	6.91			
81	160	241	128.24	.55	128.79	3.12	4.95	12.22	26.37	10.96	-11.64	-2.27	.11	5.79	.26	4	7.57	6.92			
81	161	242	134.65	.53	135.18	1.69	4.81	12.54	26.78	12.84	-10.47	-2.50	.10	5.52	.24	4	7.59	6.92			
81	162	243	139.77	.41	140.18	3.07	4.76	12.77	27.28	11.73	-12.30	-2.83	.03	5.29	.24	4	7.60	6.93			
81	163	244	146.35	.13	146.48	1.77	4.84	13.29	27.95	13.40	-11.27	-3.33		5.05	.24	4	7.61	6.94			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GO STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
81	164	245	151.64	-.17	151.47	3.08	4.85	13.57	28.61	12.17	-12.94	-3.84		4.81	.24	4	7.63	6.94			
81	165	246	158.37	-.50	157.87	1.67	4.75	13.83	29.27	13.83	-11.71	-4.40		4.57	.24	4	7.64	6.95			
81	166	247	163.83	-.86	162.97	2.97	4.64	13.90	29.75	12.60	-13.37	-4.95		4.32	.24	4	7.65	6.96			
81	167	248	170.72	-1.24	169.48	1.56	4.53	14.15	30.07	14.25	-12.14	-5.51		4.09	.22	4	7.66	6.96			
81	168	249	176.33	-1.65	174.68	2.87	4.43	14.23	30.38	13.02	-13.79	-5.88		3.89	.22	4	7.68	6.97			
81	169	250	183.38	-2.09	181.29	1.46	4.33	14.47	30.70	14.66	-12.57	-6.11		3.68	.22	4	7.69	6.98			
81	170	251	189.15	-2.55	186.60	2.77	4.22	14.54	31.01	13.43	-14.21	-6.31		3.46	.22	4	7.70	6.98			
81	171	252	196.35	-3.03	193.32	1.36	4.12	14.78	31.32	15.07	-12.97	-6.52		3.25	.22	4	7.72	6.99			
81	172	253	202.28	-3.55	198.73	2.66	4.02	14.85	31.62	13.84	-14.61	-6.73		3.05	.20	4	7.73	7.00			
81	173	254	209.63	-4.08	205.55	1.25	3.91	15.08	31.92	15.48	-13.38	-6.93		2.87	.20	4	7.74	7.00			
81	174	255	215.70	-4.64	211.06	2.56	3.82	15.16	32.23	14.25	-15.00	-7.14		2.69	.20	4	7.75	7.01			
81	175	256	223.19	-5.23	217.96	1.17	3.73	15.39	32.54	15.87	-13.79	-7.36		2.51	.20	4	7.77	7.02			
81	176	257	229.41	-5.84	223.57	2.46	3.63	15.46	32.83	14.64	-15.41	-7.56		2.32	.18	4	7.78	7.02			
81	177	258	237.04	-6.47	230.57	1.08	3.54	15.69	33.13	16.26	-14.19	-7.77		2.18	.18	4	7.79	7.03			
81	178	259	243.41	-7.13	236.28	2.36	3.44	15.76	33.43	15.04	-15.79	-7.97		2.02	.18	4	7.80	7.04			
81	179	260	251.18	-7.81	243.37	.98	3.35	15.99	33.72	16.64	-14.57	-8.18		1.87	.18	4	7.82	7.04			
81	180	261	257.69	-8.51	249.18	2.27	3.25	16.05	34.00	15.43	-16.17	-8.37		1.72	.18	4	7.83	7.05			
81	181	262	265.59	-9.23	256.36	.89	3.16	16.28	34.30	17.03	-14.95	-8.58		1.57	.18	4	7.84	7.06			
81	182	263	272.24	-9.98	262.26	2.17	3.06	16.34	34.58	15.82	-16.54	-8.77		1.44	.16	4	7.85	7.06			
81	183	264	280.28	-10.76	269.52	.80	2.98	16.56	34.87	17.40	-15.33	-8.98		1.32	.16	4	7.86	7.07			
81	184	265	287.05	-11.55	275.50	2.09	2.90	16.64	35.16	16.18	-18.64	-9.18		1.20	.16	4	7.88	7.08			
81	186	267	302.13	-9.78	292.35	.30	-.70	16.93	35.73	18.27	-18.99	-6.15		.98	.14	4	7.90	7.09			
81	188	269	317.47	-8.14	309.33	.22	-.84	17.22	36.30	18.63	-19.34	-6.60		.78	.14	4	7.93	7.10			
81	190	271	333.05	-6.62	326.43	.16	-.96	17.51	36.88	18.97	-19.70	-7.05		.62	.12	4	7.95	7.12			
81	192	273	348.89	-5.21	343.68	.09	-1.10	17.78	37.43	19.32	-20.03	-7.47		2.72	.19	ALP	7.97	7.13			
81	194	275	364.96	-3.91	361.05	.02	-1.23	18.06	37.97	19.67	-20.36	-7.90		2.07	.19	ALP	8.00	7.14			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GO STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	EXP SHELL	DIFF
82	81	163	68.97	-9.52	59.45	14.50	31.09	-2.75	-6.78	-20.80	17.59	5.38		7.14	.26	4	6.36	6.42			
82	82	164	61.66	-10.32	51.34	16.17	30.68	-2.19	-5.90	-22.09	13.23	5.28		7.50	.26	4	6.38	6.43			
82	83	165	56.83	-9.38	47.45	11.97	28.14	-2.05	-5.37	-17.74	14.55	6.93		7.84	.26	4	6.40	6.44			
82	84	166	50.37	-8.50	41.87	13.65	25.62	-1.68	-4.86	-18.86	12.37	8.58		8.17	.26	4	6.42	6.44			
82	85	167	46.00	-7.67	38.33	11.61	25.26	-1.54	-4.33	-16.49	13.68	8.40		8.49	.26	4	6.43	6.45			
82	86	168	40.01	-6.90	33.11	13.29	24.90	-1.17	-3.82	-17.78	11.52	8.25		8.80	.28	4	6.45	6.45			
82	87	169	36.08	-6.17	29.91	11.27	24.56	-1.03	-3.30	-15.62	12.82	8.07		9.14	.28	4	6.47	6.46			
82	88	170	30.54	-5.50	25.04	12.94	24.21	-.67	-2.80	-16.91	10.68	7.91		9.47	.28	4	6.49	6.47			
82	89	171	27.05	-4.87	22.18	10.94	23.88	-.53	-2.29	-14.76	11.99	7.73		9.79	.28	4	6.51	6.47			
82	90	172	21.95	-4.30	17.65	12.60	23.54	-.17	-1.80	-16.05	9.87	7.57		10.09	.28	4	6.52	6.48			
82	91	173	18.88	-3.77	15.11	10.61	23.21	-.04	-1.29	-13.91	11.17	7.38		10.37	.28	4	6.54	6.49			
82	92	174	14.20	-3.30	10.90	12.28	22.89	.32	-.80	-15.21	9.06	7.20		10.64	.28	4	6.56	6.49			
82	93	175	11.55	-2.87	8.68	10.29	22.57	.45	-.30	-13.09	10.37	7.02		10.90	.28	4	6.58	6.50			
82	94	176	7.28	-2.48	4.80	11.95	22.25	.81	.18	-14.37	8.28	6.85		11.14	.28	4	6.60	6.51			
82	95	177	5.02	-2.14	2.88	9.99	21.94	.94	.67	-12.28	9.58	6.66		11.41	.30	4	6.61	6.51			
82	96	178	1.16	-1.85	-.69	11.64	21.63	1.28	1.15	-13.56	7.50	6.48		11.66	.30	4	6.63	6.52			
82	97	179	-.72	-1.60	-2.32	9.70	21.34	1.42	1.65	-11.48	8.79	6.28		11.90	.30	4	6.65	6.52			
82	98	180	-4.19	-1.40	-5.59	11.34	21.04	1.76	2.12	-12.77	6.73	6.10		12.13	.30	4	6.66	6.53			
82	99	181	-5.68	-1.23	-6.91	9.40	20.74	1.88	2.59	-10.69	8.04	5.92		12.34	.30	4	6.68	6.54			
82	100	182	-8.78	-1.11	-9.89	11.05	20.45	2.23	3.07	-11.98	5.99	5.73		12.54	.30	4	6.70	6.54			
82	101	183	-9.91	-1.04	-10.95	9.13	20.17	2.36	3.55	-9.93	7.28	5.52		12.72	.30	4	6.71	6.55			
82	102	184	-12.63	-1.00	-13.63	10.76	19.88	2.69	4.00	-11.21	5.26	5.35		12.88	.30	4	6.73	6.56			
82	103	185	-13.41	-1.01	-14.42	8.85	19.62	2.82	4.48	-9.18	6.54	5.13		13.03	.30	4	6.75	6.56			
82	104	186	-15.77	-1.05	-16.82	10.48	19.33	3.15	4.93	-10.45	4.53	4.96		13.17	.30	4	6.76	6.57			
82	105	187	-16.20	-1.13	-17.33	8.58	19.06	3.27	5.39	-8.42	5.83	4.76		13.29	.30	4	6.78	6.58			
82	106	188	-18.22	-1.26	-19.48	10.21	18.80	3.61	5.85	-9.71	3.82	4.56		13.40	.30	4	6.80	6.58			
82	107	189	-18.31	-1.42	-19.73	8.33	18.54	3.72	6.31	-7.70	5.11	4.36		13.51	.32	4	6.81	6.59	-16.95	1.36	2.78
82	108	190	-19.99	-1.62	-21.61	9.95	18.28	4.05	6.76	-8.98	3.12	4.17		13.62	.32	4	6.83	6.59	-19.19	.80	2.42
82	109	191	-19.76	-1.86	-21.62	8.08	18.03	4.17	7.21	-6.99	4.41	3.96		13.71	.32	4	6.85	6.60	-19.47	.29	2.15
82	110	192	-21.10	-2.13	-23.23	9.69	17.77	4.49	7.65	-8.26	2.44	3.78		13.78	.32	4	6.86	6.61	-21.54	-.44	1.69
82	111	193	-20.55	-2.44	-22.99	7.83	17.52	4.61	8.09	-6.28	3.73	3.57		13.85	.32	4	6.88	6.61	-21.60	-1.05	1.39
82	112	194	-21.57	-2.79	-24.36	9.44	17.27	4.93	8.53	-7.55	1.77	3.38		13.89	.32	4	6.89	6.62	-23.47	-1.90	.89
82	113	195	-20.71	-3.17	-23.88	7.59	17.03	5.04	8.97	-5.58	3.06	3.17		13.92	.32	4	6.91	6.63	-23.36	-2.65	.52
82	114	196	-21.42	-3.59	-25.01	9.19	16.79	5.36	9.40	-6.86	1.11	2.97		13.94	.32	4	6.92	6.63	-25.04	-3.62	-.03
82	115	197	-20.26	-4.04	-24.30	7.36	16.56	5.47	9.84	-4.90	2.39	2.77		13.95	.32	4	6.94	6.64	-24.65	-4.39	-.35
82	116	198	-20.66	-4.53	-25.19	8.96	16.32	5.78	10.26	-6.18	.46	2.57		13.94	.32	4	6.96	6.65	-26.01	-5.35	-.82
82	117	199	-19.21	-5.05	-24.26	7.14	16.10	5.90	10.70	-4.24	1.74	2.36		13.92	.32	4	6.97	6.65	-25.35	-6.14	-1.09
82	118	200	-19.32	-5.60	-24.92	8.73	15.87	6.21	11.12	-5.51	-.18	2.16		13.89	.32	4	6.99	6.66	-26.35	-7.03	-1.43
82	119	201	-17.58	-6.18	-23.76	6.92	15.65	6.32	11.54	-3.58	1.10	1.96		13.84	.32	4	7.00	6.67	-25.45	-7.87	-1.69
82	120	202	-17.39	-6.80	-24.19	8.50	15.42	6.62	11.95	-4.84	-.80	1.76		13.79	.32	4	7.02	6.67	-26.06	-8.67	-1.87
82	121	203	-15.38	-7.45	-22.83	6.71	15.21	6.73	12.37	-2.93	.47	1.55		13.72	.32	4	7.03	6.68	-24.78	-9.40	-1.95
82	122	204	-14.91	-8.13	-23.04	8.29	14.99	7.03	12.78	-4.19	-1.42	1.36		13.63	.32	4	7.05	6.68	-25.11	-10.20	-2.07
82	123	205	-12.62	-8.85	-21.47	6.50	14.78	7.13	13.20	-2.30	-.15	1.14		13.54	.32	4	7.06	6.69	-23.77	-11.15	-2.30
82	124	206	-11.88	-9.59	-21.47	8.07	14.57	7.44	13.60	-3.56	-2.03	.95		13.44	.32	4	7.08	6.70	-23.78	-11.90	-2.31
82	125	207	-9.33	-10.36	-19.69	6.30	14.36	7.54	14.00	-1.67	-.75	.74		13.32	.32	4	7.09	6.70	-22.45	-13.12	-2.76
82	126	208	-8.32	-11.17	-19.49	7.87	14.16	7.84	14.41	-2.94	-4.39	.53		13.19	.32	4	7.11	6.71	-21.74	-13.42	-2.25
82	127	209	-5.51	-10.24	-15.75	4.34	12.20	7.94	14.82	.70	-3.11	2.09		13.05	.32	4	7.12	6.72	-17.61	-12.10	-1.86
82	128	210	-4.24	-9.35	-13.59	5.91	10.25	8.24	15.23	-.56	-4.96	3.64		12.91	.32	4	7.14	6.72	-14.72	-10.48	-1.13
82	129	211	-1.18	-8.51	-9.69	4.17	10.08	8.35	15.64	1.29	-3.69	3.39		12.75	.32	4	7.15	6.73	-10.46	-9.28	-.77
82	130	212	.35	-7.70	-7.35	5.73	9.90	8.64	16.04	.03	-5.53	3.17		12.58	.32	4	7.17	6.74	-7.54	-7.89	-.19
82	131	213	3.65	-6.93	-3.28	4.00	9.74	8.75	16.44	1.88	-4.26	2.92		12.40	.32	4	7.18	6.74	-3.13	-6.78	.15
82	132	214	5.43	-6.20	-.77	5.56	9.56	9.03	16.83	.62	-6.08	2.70		12.21	.32	4	7.20	6.75	-.15	-5.58	.62
82	133	215	8.97	-5.51	3.46	3.84	9.40	9.14	17.24	2.45	-4.81	2.45		12.01	.32	4	7.21	6.76			
82	134	216	10.99	-4.85	6.14	5.39	9.23	9.42	17.62	1.20	-6.62	2.23		11.80	.32	4	7.22	6.76			
82	135	217	14.76	-4.24	10.52	3.68	9.08	9.53	18.02	3.01	-5.36	1.98		11.59	.30	4	7.24	6.77			
82	136	218	17.02	-3.66	13.36	5.23	8.92	9.81	18.40	1.76	-7.17	1.75		11.39	.30	4	7.25	6.78			
82	137	219	21.01	-3.11	17.90	3.53	8.77	9.92	18.79	3.56	-5.90	1.51		11.18	.30	4	7.27	6.78			
82	138	220	23.50	-2.60	20.90	5.08	8.60	10.20	19.17	2.31	-7.69	1.29		10.95	.30	4	7.28	6.79			
82	139	221	27.72	-2.13	25.59	3.38	8.46	10.29	19.55	4.11	-6.43	1.05		10.73	.30	4	7.30	6.80			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
82	140	222	30.44	-1.69	28.75	4.92	8.29	10.56	19.92	2.87	-8.20	.83		10.49	.30	4	7.31	6.80			
82	141	223	34.87	-1.29	33.58	3.24	8.15	10.66	20.31	4.65	-6.95	.59		10.25	.30	4	7.32	6.81			
82	142	224	37.80	-.92	36.88	4.77	8.00	10.94	20.68	3.40	-8.72	.36		9.99	.30	4	7.34	6.82			
82	143	225	42.45	-.59	41.86	3.09	7.86	11.03	20.99	5.18	-7.46	.13		9.74	.30	4	7.35	6.82			
82	144	226	45.60	-.29	45.31	4.62	7.71	11.30	21.13	3.93	-9.19	-.09		9.47	.30	4	7.36	6.83			
82	145	227	50.45	-.02	50.43	2.95	7.57	11.36	21.22	5.70	-7.77	-.27		9.23	.28	4	7.38	6.83			
82	146	228	53.81	.21	54.02	4.48	7.43	11.47	21.31	4.52	-9.34	-.26		8.99	.28	4	7.39	6.84			
82	147	229	58.86	.41	59.27	2.82	7.30	11.37	21.42	6.45	-7.90	-.22		8.74	.28	4	7.41	6.85			
82	148	230	62.42	.56	62.98	4.36	7.18	11.47	21.58	5.39	-9.49	-.19	.06	8.49	.28	4	7.42	6.85			
82	149	231	67.67	.63	68.30	2.76	7.11	11.47	21.81	7.27	-8.17	-.24	.09	8.24	.28	4	7.43	6.86			
82	150	232	71.43	.64	72.07	4.29	7.06	11.68	22.11	6.09	-9.90	-.34	.10	7.97	.28	4	7.45	6.87			
82	151	233	76.87	.64	77.51	2.63	6.93	11.74	22.43	7.90	-8.65	-.45	.11	7.71	.28	4	7.46	6.87			
82	152	234	80.83	.64	81.47	4.12	6.75	11.98	22.75	6.72	-10.39	-.56	.11	7.43	.28	4	7.47	6.88			
82	153	235	86.45	.63	87.08	2.46	6.58	12.07	23.09	8.48	-9.17	-.71	.11	7.19	.26	4	7.49	6.89			
82	154	236	90.60	.62	91.22	3.94	6.39	12.32	23.43	7.28	-10.92	-.84	.11	6.95	.26	4	7.50	6.89			
82	155	237	96.41	.60	97.01	2.28	6.21	12.41	23.80	9.02	-9.72	-1.01	.11	6.70	.26	4	7.51	6.90			
82	156	238	100.75	.59	101.34	3.75	6.02	12.68	24.15	7.81	-11.47	-1.16	.11	6.45	.26	4	7.53	6.91			
82	157	239	106.73	.57	107.30	2.11	5.86	12.80	24.53	9.52	-10.29	-1.35	.10	6.20	.26	4	7.54	6.91			
82	158	240	111.25	.52	111.77	3.60	5.71	13.11	24.94	8.25	-12.08	-1.57	.08	5.94	.26	4	7.55	6.92			
82	159	241	117.41	.42	117.83	2.02	5.61	13.30	25.41	9.87	-10.96	-1.85	.02	5.69	.24	4	7.57	6.93			
82	160	242	122.11	.23	122.34	3.56	5.58	13.74	25.97	8.46	-12.84	-2.22		5.47	.24	4	7.58	6.93			
82	161	243	128.44	.01	128.45	1.96	5.53	14.01	26.55	9.95	-11.73	-2.64		5.24	.24	4	7.59	6.94			
82	162	244	133.31	-.23	133.08	3.45	5.40	14.39	27.15	8.52	-13.40	-3.07		5.01	.24	4	7.61	6.95			
82	163	245	139.81	-.51	139.30	1.85	5.29	14.46	27.76	10.03	-12.16	-3.55		4.78	.24	4	7.62	6.95			
82	164	246	144.85	-.81	144.04	3.33	5.18	14.71	28.29	8.79	-13.83	-4.04		4.55	.24	4	7.63	6.96			
82	165	247	151.51	-1.13	150.38	1.74	5.06	14.78	28.61	10.47	-12.59	-4.52		4.31	.24	4	7.65	6.97			
82	166	248	156.72	-1.49	155.23	3.21	4.96	15.02	28.93	9.24	-14.25	-4.94		4.11	.22	4	7.66	6.97			
82	167	249	163.53	-1.87	161.66	1.64	4.85	15.11	29.26	10.90	-13.02	-5.17		3.91	.22	4	7.67	6.98			
82	168	250	168.91	-2.28	166.63	3.10	4.74	15.34	29.57	9.68	-14.67	-5.38		3.71	.22	4	7.68	6.99			
82	169	251	175.88	-2.71	173.17	1.53	4.64	15.41	29.88	11.33	-13.43	-5.59		3.50	.22	4	7.70	6.99			
82	170	252	181.41	-3.17	178.24	3.00	4.53	15.65	30.19	10.10	-15.08	-5.80		3.29	.22	4	7.71	7.00			
82	171	253	188.53	-3.65	184.88	1.44	4.43	15.73	30.51	11.75	-13.85	-6.02		3.10	.20	4	7.72	7.01			
82	172	254	194.22	-4.16	190.06	2.89	4.33	15.96	30.81	10.53	-15.48	-6.22		2.93	.20	4	7.73	7.01			
82	173	255	201.50	-4.69	196.81	1.33	4.22	16.02	31.11	12.17	-14.25	-6.42		2.75	.20	4	7.75	7.02			
82	174	256	207.34	-5.25	202.09	2.78	4.12	16.25	31.41	10.95	-15.87	-6.63		2.58	.20	4	7.76	7.03			
82	175	257	214.75	-5.83	208.92	1.24	4.03	16.33	31.72	12.58	-14.66	-6.84		2.40	.18	4	7.77	7.03			
82	176	258	220.75	-6.44	214.31	2.68	3.92	16.55	32.02	11.37	-16.27	-7.04		2.25	.18	4	7.78	7.04			
82	177	259	228.31	-7.07	221.24	1.14	3.83	16.62	32.32	12.99	-15.04	-7.25		2.11	.18	4	7.80	7.05			
82	178	260	234.45	-7.72	226.73	2.58	3.73	16.84	32.60	11.78	-16.65	-7.44		1.96	.18	4	7.81	7.05			
82	179	261	242.14	-8.40	233.74	1.05	3.64	16.92	32.91	13.38	-15.44	-7.66		1.81	.18	4	7.82	7.06			
82	180	262	248.43	-9.10	239.33	2.48	3.54	17.13	33.19	12.18	-17.03	-7.85		1.66	.18	4	7.83	7.07			
82	181	263	256.26	-9.82	246.44	.96	3.45	17.21	33.49	13.78	-15.81	-8.06		1.53	.16	4	7.85	7.07			
82	182	264	262.68	-10.56	252.12	2.40	3.35	17.43	33.77	12.57	-17.40	-8.25		1.41	.16	4	7.86	7.08			
82	183	265	270.65	-11.33	259.32	.87	3.26	17.49	34.06	14.17	-16.18	-8.45		1.29	.16	4	7.87	7.09			
82	184	266	277.21	-12.12	265.09	2.30	3.17	17.71	34.34	12.97	-19.48	-8.65		1.16	.16	4	7.88	7.09			
82	186	268	292.00	-10.36	281.64	.51	-.41	18.00	34.93	15.05	-19.84	-5.64		.96	.14	4	7.91	7.11			
82	188	270	307.05	-8.72	298.33	.44	-.55	18.28	35.50	15.42	-20.19	-6.08		.77	.14	4	7.93	7.12			
82	190	272	322.36	-7.19	315.17	.37	-.69	18.56	36.06	15.79	-20.53	-6.51		.61	.12	4	7.96	7.13			
82	192	274	337.91	-5.79	332.12	.30	-.81	18.84	36.63	16.14	-20.88	-6.96		2.98	.19	ALP	7.98	7.15			
82	194	276	353.71	-4.49	349.22	.24	-.95	19.12	37.18	16.50	-21.20	-7.38		2.33	.19	ALP	8.00	7.16			
82	196	278	369.75	-3.31	366.44	.17	-1.08	19.38	37.72	16.85	-21.53	-7.80		1.74	.19	ALP	8.03	7.17			
82	198	280	386.02	-2.24	383.78	.11	-1.20	19.65	38.27	17.19	-21.86	-8.23		1.19	.19	ALP	8.05	7.19			
82	200	282	402.52	-1.28	401.24	.04	-1.31	19.92	38.80	17.52	-22.19	-8.65		.69	.18	ALP	8.07	7.20			
82	204	286	436.20	UNSTABLE AGAINST FISSION																	
82	206	288	453.36	UNSTABLE AGAINST FISSION																	
82	208	290	470.73	-.89	469.84			20.12	39.24	19.28	-22.21	-9.53	.22	-.89	.23	ALP	8.17	7.25			
82	210	292	488.32	-1.16	487.16	.09	-1.17	20.36	39.73	19.68	-22.57	-9.77	.21	-1.15	.25	ALP	8.19	7.27			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
83	95	178	14.16	-1.29	12.87	10.35	22.45	-2.71	-1.77	-11.20	13.56	8.60		10.09	.28	4	6.62	6.53			
83	96	179	10.16	-1.00	9.16	11.78	22.14	-2.57	-1.28	-12.49	11.48	8.42		10.31	.28	4	6.64	6.54			
83	97	180	7.93	-.75	7.18	10.06	21.83	-2.21	-.79	-10.41	12.77	8.23		10.53	.28	4	6.66	6.55			
83	98	181	4.33	-.55	3.78	11.47	21.53	-2.08	-.31	-11.70	10.70	8.05		10.73	.28	4	6.67	6.55			
83	99	182	2.48	-.39	2.09	9.76	21.23	-1.72	.17	-9.64	11.98	7.86		10.92	.28	4	6.69	6.56			
83	100	183	-.74	-.28	-1.02	11.18	20.94	-1.59	.65	-10.92	9.93	7.67		11.09	.28	4	6.71	6.56			
83	101	184	-2.22	-.20	-2.42	9.48	20.65	-1.23	1.12	-8.87	11.21	7.47		11.26	.30	4	6.72	6.57			
83	102	185	-5.07	-.17	-5.24	10.89	20.37	-1.11	1.59	-10.16	9.17	7.29		11.44	.30	4	6.74	6.58			
83	103	186	-6.20	-.18	-6.38	9.21	20.10	-.75	2.07	-8.14	10.44	7.07		11.61	.30	4	6.76	6.58			
83	104	187	-8.69	-.22	-8.91	10.61	19.81	-.62	2.53	-9.41	8.43	6.89		11.76	.30	4	6.77	6.59			
83	105	188	-9.46	-.31	-9.77	8.93	19.54	-.28	3.00	-7.40	9.71	6.69		11.90	.30	4	6.79	6.60			
83	106	189	-11.60	-.44	-12.04	10.34	19.27	-.15	3.46	-8.68	7.69	6.49		12.03	.30	4	6.81	6.60			
83	107	190	-12.03	-.60	-12.63	8.67	19.00	.19	3.91	-6.67	8.98	6.30		12.14	.30	4	6.82	6.61			
83	108	191	-13.83	-.80	-14.63	10.07	18.74	.31	4.36	-7.95	6.98	6.11		12.24	.30	4	6.84	6.62	-12.37	1.46	2.26
83	109	192	-13.93	-1.04	-14.97	8.41	18.48	.65	4.82	-5.96	8.26	5.90		12.33	.30	4	6.85	6.62	-12.94	.99	2.03
83	110	193	-15.40	-1.32	-16.72	9.82	18.23	.78	5.27	-7.24	6.27	5.70		12.40	.30	4	6.87	6.63	-15.00	.40	1.72
83	111	194	-15.18	-1.63	-16.81	8.17	17.98	1.11	5.72	-5.26	7.55	5.50		12.46	.30	4	6.89	6.63	-15.37	-.19	1.44
83	112	195	-16.32	-1.98	-18.30	9.56	17.73	1.23	6.16	-6.54	5.58	5.30		12.51	.30	4	6.90	6.64	-17.26	-.94	1.04
83	113	196	-15.79	-2.36	-18.15	7.93	17.48	1.56	6.60	-4.58	6.86	5.10		12.55	.30	4	6.92	6.65	-17.44	-1.65	.71
83	114	197	-16.62	-2.78	-19.40	9.32	17.24	1.68	7.04	-5.85	4.90	4.90		12.57	.30	4	6.93	6.65	-19.15	-2.53	.25
83	115	198	-15.78	-3.23	-19.01	7.69	17.00	2.00	7.47	-3.90	6.18	4.69		12.58	.30	4	6.95	6.66	-19.11	-3.33	-.10
83	116	199	-16.30	-3.72	-20.02	9.08	16.77	2.12	7.91	-5.17	4.24	4.49		12.58	.30	4	6.96	6.67	-20.55	-4.25	-.53
83	117	200	-15.17	-4.24	-19.41	7.46	16.54	2.44	8.34	-3.24	5.50	4.28		12.57	.30	4	6.98	6.67	-20.35	-5.18	-.94
83	118	201	-15.39	-4.80	-20.19	8.85	16.31	2.56	8.77	-4.52	3.57	4.08		12.55	.30	4	6.99	6.68	-21.45	-6.06	-1.26
83	119	202	-13.97	-5.38	-19.35	7.24	16.08	2.88	9.19	-2.59	4.84	3.87		12.52	.30	4	7.01	6.69	-20.86	-6.89	-1.51
83	120	203	-13.90	-6.00	-19.90	8.62	15.86	3.00	9.62	-3.86	2.93	3.67		12.47	.30	4	7.02	6.69	-21.59	-7.69	-1.69
83	121	204	-12.19	-6.65	-18.84	7.02	15.63	3.30	10.03	-1.95	4.20	3.47		12.42	.30	4	7.04	6.70	-20.71	-8.52	-1.87
83	122	205	-11.84	-7.33	-19.17	8.40	15.42	3.42	10.45	-3.21	2.30	3.27		12.36	.30	4	7.06	6.70	-21.06	-9.22	-1.89

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
83	123	206	-9.86	-8.05	-17.91	6.81	15.21	3.73	10.87	-1.32	3.56	3.05		12.28	.30	4	7.07	6.71	-20.12	-10.26	-2.21
83	124	207	-9.23	-8.79	-18.02	8.18	14.99	3.84	11.27	-2.58	1.67	2.86		12.20	.30	4	7.09	6.72	-20.04	-10.81	-2.02
83	125	208	-6.99	-9.56	-16.55	6.61	14.78	4.15	11.69	-.70	2.94	2.65		12.10	.30	4	7.10	6.72	-18.88	-11.89	-2.33
83	126	209	-6.08	-10.37	-16.45	7.97	14.57	4.25	12.09	-1.96	-.70	2.45		12.00	.30	4	7.11	6.73	-18.26	-12.18	-1.81
83	127	210	-3.58	-9.45	-13.03	4.65	12.62	4.56	12.51	1.66	.56	3.99		11.88	.30	4	7.13	6.74	-14.78	-11.20	-1.75
83	128	211	-2.42	-8.56	-10.98	6.03	10.67	4.68	12.92	.40	-1.29	5.54		11.76	.30	4	7.14	6.74	-11.84	-9.42	-.86
83	129	212	.34	-7.72	-7.38	4.47	10.50	4.99	13.33	2.25	-.03	5.29		11.63	.30	4	7.16	6.75	-8.12	-8.46	-.74
83	130	213	1.76	-6.92	-5.16	5.85	10.32	5.10	13.74	.99	-1.88	5.05		11.48	.30	4	7.17	6.76	-5.23	-6.99	-.07
83	131	214	4.77	-6.16	-1.39	4.30	10.15	5.40	14.15	2.83	-.62	4.81		11.33	.30	4	7.19	6.76	-1.18	-5.95	.21
83	132	215	6.44	-5.43	1.01	5.67	9.98	5.51	14.54	1.57	-2.45	4.58		11.17	.30	4	7.20	6.77	1.73	-4.71	.72
83	133	216	9.69	-4.74	4.95	4.13	9.81	5.80	14.94	3.40	-1.19	4.35		11.01	.30	4	7.22	6.78	5.99	-3.70	1.04
83	134	217	11.60	-4.09	7.51	5.51	9.64	5.92	15.34	2.14	-3.01	4.11		10.83	.30	4	7.23	6.78			
83	135	218	15.08	-3.48	11.60	3.98	9.49	6.21	15.74	3.95	-1.76	3.86		10.65	.30	4	7.25	6.79			
83	136	219	17.24	-2.90	14.34	5.34	9.31	6.31	16.12	2.71	-3.56	3.64		10.45	.30	4	7.26	6.80			
83	137	220	20.95	-2.36	18.59	3.82	9.16	6.61	16.51	4.51	-2.31	3.40		10.25	.30	4	7.27	6.80			
83	138	221	23.34	-1.86	21.48	5.18	9.00	6.71	16.90	3.26	-4.11	3.17		10.04	.30	4	7.29	6.81			
83	139	222	27.27	-1.39	25.88	3.67	8.85	7.00	17.29	5.05	-2.86	2.93		9.84	.28	4	7.30	6.81			
83	140	223	29.89	-.96	28.93	5.02	8.69	7.10	17.67	3.80	-4.65	2.70		9.64	.28	4	7.32	6.82			
83	141	224	34.04	-.56	33.48	3.52	8.54	7.39	18.05	5.58	-3.40	2.46		9.44	.28	4	7.33	6.83			
83	142	225	36.88	-.19	36.69	4.87	8.38	7.48	18.42	4.34	-5.17	2.25		9.23	.28	4	7.34	6.83			
83	143	226	41.24	.14	41.38	3.38	8.24	7.77	18.80	6.10	-3.93	2.00		9.02	.28	4	7.36	6.84			
83	144	227	44.30	.43	44.73	4.72	8.09	7.86	19.17	5.00	-5.70	1.78		8.80	.28	4	7.37	6.85			
83	145	228	48.87	.63	49.50	3.30	8.02	8.21	19.58	6.97	-4.52	1.47	.08	8.58	.28	4	7.39	6.85			
83	146	229	52.13	.68	52.81	4.76	8.06	8.50	19.97	5.84	-6.46	1.06	.11	8.35	.28	4	7.40	6.86			
83	147	230	56.91	.68	57.59	3.30	8.06	8.97	20.34	7.67	-5.40	.66	.12	8.11	.28	4	7.41	6.87			
83	148	231	60.38	.65	61.03	4.63	7.93	9.24	20.71	6.49	-7.26	.40	.13	7.87	.28	4	7.43	6.87			
83	149	232	65.36	.62	65.98	3.13	7.75	9.60	21.07	8.29	-6.10	.20	.13	7.62	.26	4	7.44	6.88			
83	150	233	69.03	.58	69.61	4.43	7.57	9.75	21.44	7.09	-7.90	.02	.14	7.41	.26	4	7.45	6.89			
83	151	234	74.20	.55	74.75	2.93	7.37	10.05	21.80	8.87	-6.72	-.15	.14	7.19	.26	4	7.47	6.89			
83	152	235	78.07	.53	78.60	4.23	7.16	10.16	22.14	7.68	-8.48	-.29	.14	6.96	.26	4	7.48	6.90			
83	153	236	83.43	.51	83.94	2.73	6.96	10.43	22.49	9.45	-7.28	-.45	.14	6.73	.26	4	7.49	6.91			
83	154	237	87.49	.50	87.99	4.02	6.75	10.52	22.84	8.25	-9.02	-.60	.14	6.50	.26	4	7.51	6.91			
83	155	238	93.04	.49	93.53	2.53	6.55	10.77	23.19	9.99	-7.81	-.75	.14	6.26	.26	4	7.52	6.92			
83	156	239	97.29	.50	97.79	3.82	6.34	10.84	23.52	8.80	-9.51	-.89	.14	6.02	.26	4	7.53	6.93			
83	157	240	103.01	.50	103.51	2.34	6.16	11.07	23.88	10.52	-8.27	-1.05	.14	5.80	.24	4	7.55	6.93			
83	158	241	107.45	.52	107.97	3.62	5.96	11.10	24.20	9.32	-9.86	-1.19	.13	5.59	.24	4	7.56	6.94			
83	159	242	113.35	.53	113.88	2.15	5.78	11.24	24.54	11.02	-8.46	-1.36	.13	5.37	.24	4	7.57	6.95			
83	160	243	117.96	.54	118.50	3.45	5.61	11.13	24.87	9.79	-9.95	-1.52	.12	5.16	.24	4	7.59	6.95			
83	161	244	124.04	.53	124.57	2.01	5.45	11.17	25.19	11.46	-8.51	-1.70	.10	4.94	.24	4	7.60	6.96			
83	162	245	128.83	.44	129.27	3.36	5.38	11.10	25.48	10.13	-10.03	-1.95	.06	4.72	.24	4	7.61	6.97			
83	163	246	135.07	.18	135.25	2.09	5.46	11.34	25.81	11.53	-8.79	-2.35		4.49	.24	4	7.63	6.97			
83	164	247	140.03	-.12	139.91	3.41	5.50	11.42	26.13	10.00	-10.46	-2.69		4.29	.22	4	7.64	6.98			
83	165	248	146.44	-.45	145.99	1.99	5.40	11.67	26.46	11.41	-9.24	-2.91		4.10	.22	4	7.65	6.99			
83	166	249	151.57	-.81	150.76	3.30	5.29	11.75	26.78	10.12	-10.90	-3.13		3.91	.22	4	7.66	6.99			
83	167	250	158.14	-1.19	156.95	1.88	5.18	12.00	27.11	11.77	-9.68	-3.35		3.71	.22	4	7.68	7.00			
83	168	251	163.43	-1.59	161.84	3.19	5.07	12.08	27.42	10.56	-11.33	-3.55		3.51	.22	4	7.69	7.01			
83	169	252	170.16	-2.03	168.13	1.78	4.97	12.33	27.74	12.20	-10.12	-3.77		3.31	.22	4	7.70	7.01			
83	170	253	175.62	-2.49	173.13	3.07	4.85	12.40	28.05	10.99	-11.76	-3.98		3.14	.20	4	7.72	7.02			
83	171	254	182.50	-2.97	179.53	1.67	4.75	12.64	28.37	12.63	-10.54	-4.19		2.97	.20	4	7.73	7.02			
83	172	255	188.11	-3.48	184.63	2.97	4.65	12.72	28.68	11.41	-12.18	-4.40		2.80	.20	4	7.74	7.03			
83	173	256	195.15	-4.01	191.14	1.57	4.54	12.96	28.98	13.05	-10.95	-4.60		2.63	.20	4	7.75	7.04			
83	174	257	200.91	-4.57	196.34	2.87	4.44	13.04	29.30	11.82	-12.59	-4.82		2.45	.18	4	7.77	7.04			
83	175	258	208.09	-5.15	202.94	1.48	4.34	13.28	29.60	13.45	-11.37	-5.03		2.31	.18	4	7.78	7.05			
83	176	259	214.01	-5.76	208.25	2.76	4.24	13.35	29.90	12.23	-12.99	-5.23		2.17	.18	4	7.79	7.06			
83	177	260	221.34	-6.39	214.95	1.37	4.14	13.58	30.20	13.85	-11.78	-5.44		2.03	.18	4	7.80	7.06			
83	178	261	227.40	-7.04	220.36	2.66	4.04	13.66	30.50	12.64	-13.39	-5.64		1.88	.18	4	7.82	7.07			
83	179	262	234.87	-7.72	227.15	1.28	3.94	13.88	30.80	14.25	-12.18	-5.85		1.73	.18	4	7.83	7.08			
83	180	263	241.08	-8.42	232.66	2.56	3.85	13.96	31.10	13.04	-13.78	-6.05		1.60	.16	4	7.84	7.08			
83	181	264	248.69	-9.14	239.55	1.18	3.75	14.18	31.39	14.64	-12.57	-6.25		1.48	.16	4	7.85	7.09			
83	182	265	255.04	-9.89	245.15	2.46	3.66	14.25	31.68	13.43	-14.17	-6.45		1.36	.16	4	7.87	7.10			
83	183	266	262.78	-10.65	252.13	1.10	3.56	14.48	31.97	15.03	-12.96	-6.65		1.24	.16	4	7.88	7.10			
83	184	267	269.27	-11.44	257.83	2.37	3.46	14.55	32.25	13.83	-16.25	-6.85		1.13	.14	4	7.89	7.11			
83	186	269	283.77	-9.69	274.08	.58	-.11	14.85	32.85	15.91	-16.62	-3.85		.94	.14	4	7.91	7.12			
83	188	271	298.53	-8.05	290.48	.51	-.26	15.15	33.43	16.28	-16.98	-4.29		.75	.14	4	7.94	7.14			
83	190	273	313.55	-6.54	307.01	.44	-.39	15.44	34.01	16.63	-17.35	-4.74		.61	.12	4	7.96	7.15			
83	192	275	328.82	-5.14	323.68	.37	-.53	15.73	34.58	16.99	-17.70	-5.18		2.69	.19	ALP	7.99	7.16			
83	194	277	344.34	-3.85	340.49	.30	-.66	16.02	35.13	17.34	-18.05	-5.61		2.05	.19	ALP	8.01	7.18			
83	196	279	360.10	-2.67	357.43	.24	-.80	16.30	35.68	17.69	-18.39	-6.04		1.45	.19	ALP	8.03	7.19			
83	198	281	376.10	-1.61	374.49	.17	-.92	16.58	36.23	18.03	-18.73	-6.47		.91	.19	ALP	8.06	7.20			
83	200	283	392.33	-.65	391.68	.11	-1.04	16.86	36.77	18.37	-19.06	-6.89		.41	.18	ALP	8.08	7.22			
83	202	285	408.79	UNSTABLE AGAINST FISSION																	
83	204	287	425.47	UNSTABLE AGAINST FISSION																	
83	206	289	442.37	-.82	441.55	.41			38.39	19.69			.20	-.78	.26	ALP	8.15	7.26			
83	208	291	459.49	-1.13	458.36	.27	-.66	18.78	38.89	20.09	-20.81	-9.43	.20	-1.04	.27	ALP	8.17	7.27			
83	210	293	476.81	-1.41	475.40	.15	-.90	19.04	39.40	20.45	-21.20	-9.69	.20	-1.28	.27	ALP	8.20	7.28			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
84	89	173	47.12	-3.15	43.97	11.45	24.91	-2.99	-7.21	-15.98	14.95	11.63		7.35	.26	4	6.52	6.52			
84	90	174	41.52	-2.59	38.93	13.11	24.57	-2.62	-6.71	-17.27	12.82	11.46		7.62	.26	4	6.54	6.52			
84	91	175	37.95	-2.07	35.88	11.13	24.24	-2.48	-6.19	-15.14	14.11	11.28		7.89	.26	4	6.56	6.53			
84	92	176	32.78	-1.60	31.18	12.78	23.90	-2.12	-5.70	-16.42	12.01	11.11		8.14	.26	4	6.58	6.54			
84	93	177	29.63	-1.18	28.45	10.81	23.58	-1.98	-5.19	-14.31	13.29	10.92		8.37	.26	4	6.59	6.54			
84	94	178	24.88	-.81	24.07	12.45	23.26	-1.63	-4.70	-15.59	11.20	10.74		8.60	.26	4	6.61	6.55			
84	95	179	22.13	-.48	21.65	10.49	22.94	-1.49	-4.19	-13.50	12.49	10.55		8.81	.26	4	6.63	6.55			
84	96	180	17.79	-.19	17.60	12.13	22.62	-1.14	-3.72	-14.77	10.42	10.38		9.02	.28	4	6.65	6.56			
84	97	181	15.43	.05	15.48	10.19	22.32	-1.01	-3.22	-12.70	11.70	10.18		9.25	.28	4	6.66	6.57			
84	98	182	11.48	.25	11.73	11.82	22.01	-.66	-2.74	-13.92	9.64	10.00		9.46	.28	4	6.68	6.57			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
84	99	183	9.50	.40	9.90	9.90	21.72	-.52	-2.24	-11.74	10.92	9.79		9.66	.28	4	6.70	6.58			
84	100	184	5.94	.51	6.45	11.52	21.42	-.18	-1.76	-12.89	8.87	9.61		9.85	.28	4	6.71	6.59			
84	101	185	4.33	.58	4.91	9.61	21.14	-.05	-1.28	-10.75	10.15	9.40		10.03	.28	4	6.73	6.59			
84	102	186	1.14	.61	1.75	11.23	20.85	.29	-.81	-11.96	8.12	9.22		10.19	.28	4	6.75	6.60			
84	103	187	-.10	.60	.50	9.33	20.56	.41	-.34	-9.90	9.41	9.02		10.34	.28	4	6.76	6.60			
84	104	188	-2.93	.55	-2.38	10.95	20.28	.76	.14	-11.19	7.39	8.83		10.48	.28	4	6.78	6.61			
84	105	189	-3.83	.46	-3.37	9.06	20.01	.89	.61	-9.23	8.66	8.62		10.61	.28	4	6.80	6.62			
84	106	190	-6.30	.34	-5.96	10.67	19.73	1.22	1.06	-10.58	6.67	8.44		10.73	.28	4	6.81	6.62			
84	107	191	-6.85	.17	-6.68	8.79	19.46	1.34	1.53	-8.69	7.95	8.23		10.83	.28	4	6.83	6.63			
84	108	192	-8.98	-.03	-9.01	10.40	19.19	1.67	1.98	-10.08	5.96	8.04		10.92	.28	4	6.85	6.64			
84	109	193	-9.20	-.27	-9.47	8.53	18.93	1.79	2.43	-8.18	7.24	7.84		11.00	.28	4	6.86	6.64	-7.40	1.80	2.07
84	110	194	-10.99	-.55	-11.54	10.14	18.67	2.12	2.89	-9.45	5.27	7.64		11.07	.28	4	6.88	6.65	-9.78	1.21	1.76
84	111	195	-10.90	-.87	-11.77	8.29	18.43	2.25	3.36	-7.49	6.53	7.42		11.13	.28	4	6.89	6.66	-10.30	.60	1.47
84	112	196	-12.36	-1.22	-13.58	9.89	18.18	2.57	3.80	-8.76	4.57	7.23		11.19	.30	4	6.91	6.66	-12.46	-.10	1.12
84	113	197	-11.95	-1.60	-13.55	8.05	17.93	2.69	4.24	-6.79	5.85	7.02		11.24	.30	4	6.92	6.67	-12.76	-.81	.79
84	114	198	-13.09	-2.02	-15.11	9.64	17.68	3.00	4.68	-8.05	3.90	6.83		11.28	.30	4	6.94	6.67	-14.74	-1.65	.37
84	115	199	-12.37	-2.47	-14.84	7.81	17.44	3.12	5.12	-6.10	5.18	6.62		11.31	.30	4	6.96	6.68	-14.86	-2.49	-.02
84	116	200	-13.20	-2.96	-16.16	9.39	17.19	3.43	5.55	-7.36	3.25	6.42		11.33	.30	4	6.97	6.69	-16.63	-3.43	-.47
84	117	201	-12.19	-3.48	-15.67	7.58	16.97	3.55	5.99	-5.43	4.51	6.21		11.33	.30	4	6.99	6.69	-16.42	-4.23	-.75
84	118	202	-12.72	-4.04	-16.76	9.16	16.74	3.87	6.42	-6.70	2.59	6.00		11.32	.30	4	7.00	6.70	-17.89	-5.17	-1.13
84	119	203	-11.41	-4.63	-16.04	7.35	16.51	3.98	6.86	-4.78	3.86	5.79		11.31	.30	4	7.02	6.71	-17.43	-6.02	-1.39
84	120	204	-11.65	-5.25	-16.90	8.93	16.29	4.29	7.28	-6.04	1.95	5.59		11.28	.30	4	7.03	6.71	-18.45	-6.80	-1.55
84	121	205	-10.06	-5.90	-15.96	7.13	16.06	4.40	7.71	-4.13	3.21	5.38		11.24	.30	4	7.05	6.72	-17.70	-7.64	-1.74
84	122	206	-10.01	-6.58	-16.59	8.70	15.84	4.71	8.13	-5.38	1.32	5.18		11.19	.30	4	7.06	6.73	-18.31	-8.30	-1.72
84	123	207	-8.15	-7.29	-15.44	6.93	15.63	4.82	8.55	-3.49	2.58	4.96		11.13	.30	4	7.08	6.73	-17.13	-8.98	-1.69
84	124	208	-7.81	-8.04	-15.85	8.48	15.41	5.12	8.96	-4.74	.70	4.77		11.06	.30	4	7.09	6.74	-17.46	-9.65	-1.61
84	125	209	-5.68	-8.81	-14.49	6.71	15.20	5.23	9.37	-2.86	1.96	4.56		10.98	.30	4	7.11	6.74	-16.36	-10.68	-1.87
84	126	210	-5.08	-9.61	-14.69	8.27	14.98	5.53	9.78	-4.11	-1.66	4.35		10.88	.30	4	7.12	6.75	-15.94	-10.86	-1.25
84	127	211	-2.68	-8.70	-11.38	4.76	13.03	5.64	10.21	-.49	-.40	5.89		10.78	.30	4	7.14	6.76	-12.43	-9.75	-1.05
84	128	212	-1.81	-7.82	-9.63	6.32	11.08	5.94	10.62	-1.75	-2.25	7.43		10.68	.30	4	7.15	6.76	-10.36	-8.55	-.73
84	129	213	.84	-6.98	-6.14	4.58	10.90	6.05	11.03	.11	-.98	7.19		10.56	.30	4	7.17	6.77	-6.65	-7.49	-.51
84	130	214	1.97	-6.19	-4.22	6.14	10.73	6.35	11.45	-1.16	-2.83	6.95		10.44	.28	4	7.18	6.78	-4.46	-6.43	-.24
84	131	215	4.87	-5.43	-.56	4.41	10.56	6.46	11.86	.69	-1.57	6.70		10.32	.28	4	7.20	6.78	-.51	-5.38	.05
84	132	216	6.25	-4.71	1.54	5.97	10.39	6.75	12.27	-.57	-3.40	6.46		10.19	.28	4	7.21	6.79	1.79	-4.46	.25
84	133	217	9.39	-4.02	5.37	4.25	10.21	6.86	12.67	1.26	-2.14	6.22		10.05	.28	4	7.22	6.80	5.97	-3.42	.60
84	134	218	11.03	-3.38	7.65	5.79	10.04	7.15	13.06	.02	-3.95	6.00		9.91	.28	4	7.24	6.80	8.39	-2.64	.74
84	135	219	14.40	-2.77	11.63	4.09	9.88	7.26	13.47	1.83	-2.71	5.75		9.76	.28	4	7.25	6.81			
84	136	220	16.28	-2.20	14.08	5.62	9.71	7.54	13.86	.59	-4.51	5.52		9.60	.28	4	7.27	6.81			
84	137	221	19.88	-1.66	18.22	3.93	9.56	7.65	14.26	2.39	-3.26	5.27		9.44	.28	4	7.28	6.82			
84	138	222	21.99	-1.16	20.83	5.47	9.39	7.94	14.65	1.14	-5.05	5.04		9.27	.28	4	7.30	6.83			
84	139	223	25.83	-.69	25.14	3.77	9.23	8.03	15.03	2.95	-3.79	4.81		9.09	.28	4	7.31	6.83			
84	140	224	28.17	-.26	27.91	5.30	9.07	8.31	15.41	1.70	-5.57	4.59		8.90	.28	4	7.32	6.84			
84	141	225	32.22	.13	32.35	3.62	8.93	8.42	15.81	3.48	-4.33	4.34		8.71	.28	4	7.34	6.85			
84	142	226	34.78	.49	35.27	5.15	8.78	8.70	16.19	2.35	-6.11	4.10		8.51	.28	4	7.35	6.85			
84	143	227	39.05	.68	39.73	3.62	8.77	8.94	16.71	4.31	-5.00	3.73	.09	8.31	.28	4	7.37	6.86			
84	144	228	41.84	.70	42.54	5.26	8.88	9.48	17.35	3.17	-6.96	3.23	.12	8.10	.28	4	7.38	6.87			
84	145	229	46.31	.66	46.97	3.63	8.90	9.82	18.03	4.99	-5.85	2.69	.13	7.90	.26	4	7.39	6.87			
84	146	230	49.31	.61	49.92	5.13	8.75	10.19	18.68	3.82	-7.67	2.19	.14	7.71	.26	4	7.41	6.88			
84	147	231	53.99	.55	54.54	3.45	8.58	10.34	19.31	5.62	-6.49	1.69	.14	7.51	.26	4	7.42	6.89			
84	148	232	57.20	.49	57.69	4.92	8.37	10.64	19.88	4.44	-8.29	1.25	.15	7.31	.26	4	7.43	6.89			
84	149	233	62.08	.43	62.51	3.25	8.17	10.75	20.36	6.22	-7.10	.81	.15	7.11	.26	4	7.45	6.90			
84	150	234	65.49	.38	65.87	4.71	7.96	11.03	20.78	5.03	-8.88	.46	.15	6.90	.26	4	7.46	6.91			
84	151	235	70.57	.34	70.91	3.03	7.75	11.13	21.18	6.81	-7.69	.19	.15	6.69	.26	4	7.47	6.91			
84	152	236	74.18	.31	74.49	4.49	7.53	11.39	21.56	5.62	-9.45	-.01	.15	6.47	.26	4	7.49	6.92			
84	153	237	79.45	.29	79.74	2.82	7.32	11.49	21.92	7.38	-8.25	-.20	.15	6.25	.26	4	7.50	6.93			
84	154	238	83.26	.28	83.54	4.27	7.10	11.74	22.26	6.20	-9.99	-.35	.15	6.04	.24	4	7.51	6.93			
84	155	239	88.71	.28	88.99	2.62	6.90	11.83	22.60	7.94	-8.79	-.51	.15	5.85	.24	4	7.53	6.94			
84	156	240	92.71	.29	93.00	4.07	6.68	12.08	22.92	6.76	-10.52	-.65	.15	5.65	.24	4	7.54	6.94			
84	157	241	98.35	.30	98.65	2.41	6.48	12.15	23.23	8.49	-9.31	-.79	.15	5.45	.24	4	7.55	6.95			
84	158	242	102.53	.33	102.86	3.86	6.28	12.39	23.50	7.30	-11.02	-.90	.15	5.24	.24	4	7.57	6.96			
84	159	243	108.34	.36	108.70	2.23	6.09	12.47	23.71	9.02	-9.80	-1.02	.15	5.04	.24	4	7.58	6.96			
84	160	244	112.71	.40	113.11	3.67	5.89	12.68	23.81	7.82	-11.45	-1.09	.14	4.83	.24	4	7.59	6.97			
84	161	245	118.70	.44	119.14	2.04	5.71	12.71	23.89	9.53	-10.13	-1.12	.14	4.61	.24	4	7.61	6.98			
84	162	246	123.24	.48	123.72	3.49	5.53	12.83	23.94	8.31	-11.53	-1.05	.13	4.43	.22	4	7.62	6.98			
84	163	247	129.40	.50	129.90	1.89	5.39	12.64	23.98	9.97	-10.01	-.98	.12	4.24	.22	4	7.63	6.99			
84	164	248	134.12	.46	134.58	3.40	5.29	12.62	24.04	8.67	-11.41	-.92	.08	4.06	.22	4	7.65	7.00			
84	165	249	140.45	.20	140.65	2.01	5.40	12.63	24.30	10.05	-10.11	-1.07		3.87	.22	4	7.66	7.00			
84	166	250	145.34	-.16	145.18	3.53	5.54	12.87	24.63	8.46	-11.77	-1.29		3.68	.22	4	7.67	7.01			
84	167	251	151.82	-.54	151.28	1.97	5.51	12.97	24.96	9.81	-10.56	-1.52		3.49	.22	4	7.68	7.02			
84	168	252	156.88	-.95	155.93	3.42	5.39	13.20	25.28	8.57	-12.21	-1.72		3.31	.20	4	7.70	7.02			
84	169	253	163.53	-1.38	162.15	1.86	5.28	13.28	25.60	10.23	-10.98	-1.94		3.15	.20	4	7.71	7.03			
84	170	254	168.75	-1.84	166.91	3.31	5.16	13.51	25.91	9.01	-12.62	-2.15		2.98	.20	4	7.72	7.04			
84	171	255	175.55	-2.33	173.22	1.75	5.07	13.60	26.24	10.65	-11.42	-2.37		2.82	.20	4	7.73	7.04			
84	172	256	180.93	-2.84	178.09	3.20	4.96	13.83	26.56	9.44	-13.05	-2.58		2.65	.20	4	7.75	7.05			
84	173	257	187.89	-3.37	184.52	1.65	4.85	13.90	26.86	11.08	-11.82	-2.79		2.49	.18	4	7.76	7.06			
84	174	258	193.42	-3.93	189.49	3.10	4.75	14.14	27.18	9.86	-13.45	-3.00		2.35	.18	4	7.77	7.06			
84	175	259	200.53	-4.51	196.02	1.55	4.64	14.21	27.48	11.49	-12.23	-3.21		2.22	.18	4	7.78	7.07			
84	176	260	206.21	-5.12	201.09	2.99	4.55	14.45	27.80	10.27	-13.86	-3.43		2.07	.18	4	7.80	7.08			
84	177	261	213.47	-5.75	207.72	1.45	4.44	14.52	28.10	11.90	-12.64	-3.63		1.93	.18	4	7.81	7.08			
84	178	262	219.30	-6.40	212.90	2.89	4.34	14.75	28.40	10.69	-14.25	-3.84		1.79	.18	4	7.82	7.09			
84	179	263	226.70	-7.08	219.62	1.35	4.24	14.82	28.71	12.30	-13.04	-4.05		1.66	.16	4	7.83	7.10			
84	180	264	232.68	-7.78	224.90	2.79	4.15	15.05	29.01	11.09	-14.65	-4.25		1.54	.16	4	7.85	7.10			
84	181	265	240.22	-8.50	231.72	1.26	4.04	15.11	29.30	12.70	-13.43	-4.45		1.43	.16	4	7.86	7.11			
84	182	266	246.34	-9.24	237.10	2.69	3.95	15.34	29.60	11.50	-15.02	-4.65		1.31	.16	4	7.87	7.12			
84	183	267	254.01	-10.01	244.00	1.17	3.86	15.42	29.90	13.09	-13.82	-4.87		1.19	.16	4	7.88	7.12			
84	184	268	260.28	-10.80	249.48	2.60	3.76	15.63	30.18	11.89	-17.11	-5.06		1.09	.14	4	7.90	7.13			
84	186	270	274.50	-9.05	265.45	.80	.18	15.92	30.77	13.99	-17.46	-2.06		.91	.14	4	7.92	7.14			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
84	188	272	288.97	-7.43	281.54	.73	.04	16.22	31.37	14.35	-17.84	-2.53		.73	.12	4	7.94	7.15			
84	190	274	303.71	-5.92	297.79	.66	-.10	16.51	31.95	14.72	-18.19	-2.97		.59	.12	4	7.97	7.17			
84	192	276	318.70	-4.52	314.18	.59	-.24	16.80	32.53	15.09	-18.54	-3.41		2.42	.19	ALP	7.99	7.18			
84	194	278	333.95	-3.24	330.71	.51	-.38	17.07	33.09	15.45	-18.88	-3.84		1.78	.19	ALP	8.02	7.19			
84	196	280	349.44	-2.07	347.37	.44	-.52	17.35	33.65	15.80	-19.22	-4.28		1.19	.19	ALP	8.04	7.21			
84	198	282	365.17	-1.01	364.16	.37	-.65	17.62	34.20	16.15	-19.56	-4.71		.64	.19	ALP	8.06	7.22			
84	200	284	381.13	-.06	381.07	.31	-.77	17.90	34.76	16.49	-19.89	-5.14		.15	.18	ALP	8.09	7.23			
84	202	286	397.33	-.30	397.03		.19		36.38	17.01		-6.64	.20	-.30	.24	ALP	8.11	7.25			
84	204	288	413.75	-.71	413.04	.74	.13			17.40	-20.85	-8.22	.20	-.62	.27	ALP	8.13	7.26			
84	206	290	430.39	-1.06	429.33	.60	-.14	19.52		17.80	-21.23		.19	-.90	.28	ALP	8.16	7.27			
84	208	292	447.25	-1.38	445.87	.47	-.40	19.77	38.55	18.18	-21.61		.19	-1.15	.28	ALP	8.18	7.29			
84	210	294	464.33	-1.65	462.68	.34	-.66	20.01	39.05	18.58	-21.98	-9.59	.20	-1.38	.28	ALP	8.20	7.30			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
85	97	182	24.90	.75	25.65	10.60	22.86	-2.88	-3.89	-11.21	13.92	10.35	.08	8.13	.26	4	6.67	6.59			
85	98	183	20.83	.82	21.65	12.07	22.67	-2.63	-3.29	-12.36	11.75	10.06	.10	8.32	.26	4	6.69	6.59			
85	99	184	18.50	.85	19.35	10.37	22.44	-2.15	-2.68	-10.22	12.90	9.74	.11	8.50	.26	4	6.71	6.60			
85	100	185	14.81	.86	15.67	11.75	22.12	-1.92	-2.11	-11.43	10.75	9.47	.12	8.67	.26	4	6.72	6.61			
85	101	186	12.85	.86	13.71	10.02	21.78	-1.50	-1.56	-9.34	11.95	9.20	.12	8.82	.26	4	6.74	6.61			
85	102	187	9.54	.86	10.40	11.38	21.41	-1.36	-1.06	-10.56	9.90	8.99	.12	8.97	.26	4	6.76	6.62			
85	103	188	7.95	.87	8.82	9.66	21.04	-1.03	-.61	-8.49	11.19	8.82	.12	9.11	.28	4	6.77	6.63			
85	104	189	5.00	.87	5.87	11.02	20.67	-.95	-.20	-9.73	9.23	8.69	.12	9.27	.28	4	6.79	6.63			
85	105	190	3.76	.86	4.62	9.31	20.33	-.70	.19	-7.71	10.58	8.57	.11	9.41	.28	4	6.81	6.64			
85	106	191	1.17	.85	2.02	10.68	19.99	-.69	.53	-8.98	8.70	8.50	.10	9.54	.28	4	6.82	6.64			
85	107	192	.27	.80	1.07	9.01	19.69	-.46	.88	-7.03	10.08	8.41	.09	9.66	.28	4	6.84	6.65			
85	108	193	-1.97	.68	-1.29	10.43	19.44	-.44	1.24	-8.40	8.19	8.32	.04	9.76	.28	4	6.85	6.66			
85	109	194	-2.53	.45	-2.08	8.86	19.29	-.11	1.68	-6.64	9.47	8.13		9.86	.28	4	6.87	6.66			
85	110	195	-4.44	.17	-4.27	10.26	19.12	.02	2.13	-8.14	7.49	7.94		9.94	.28	4	6.89	6.67			
85	111	196	-4.68	-.15	-4.83	8.62	18.89	.36	2.60	-6.40	8.74	7.72		10.01	.28	4	6.90	6.68	-3.32	1.36	1.51
85	112	197	-6.26	-.50	-6.76	10.01	18.63	.48	3.04	-7.74	6.79	7.53		10.08	.28	4	6.92	6.68	-5.47	.79	1.29
85	113	198	-6.17	-.89	-7.06	8.37	18.38	.80	3.49	-5.79	8.05	7.32		10.13	.28	4	6.93	6.69	-6.06	.11	1.00
85	114	199	-7.43	-1.31	-8.74	9.75	18.13	.92	3.92	-7.04	6.11	7.13		10.17	.28	4	6.95	6.69	-8.06	-.63	.68
85	115	200	-7.04	-1.76	-8.80	8.13	17.89	1.24	4.36	-5.11	7.37	6.93		10.20	.28	4	6.96	6.70	-8.42	-1.38	.38
85	116	201	-7.99	-2.25	-10.24	9.51	17.64	1.36	4.80	-6.37	5.43	6.73		10.22	.28	4	6.98	6.71	-10.25	-2.26	-.01
85	117	202	-7.29	-2.77	-10.06	7.90	17.40	1.68	5.23	-4.44	6.70	6.53		10.23	.28	4	6.99	6.71	-10.43	-3.14	-.37
85	118	203	-7.94	-3.33	-11.27	9.28	17.18	1.80	5.67	-5.71	4.77	6.32		10.23	.28	4	7.01	6.72	-11.92	-3.98	-.65
85	119	204	-6.95	-3.92	-10.87	7.67	16.95	2.11	6.10	-3.80	6.02	6.11		10.23	.28	4	7.03	6.73	-11.86	-4.91	-.99
85	120	205	-7.29	-4.53	-11.82	9.04	16.70	2.22	6.50	-5.03	4.14	5.94		10.21	.28	4	7.04	6.73	-13.01	-5.72	-1.19
85	121	206	-6.02	-5.19	-11.21	7.45	16.49	2.54	6.94	-3.15	5.38	5.71		10.18	.28	4	7.06	6.74	-12.62	-6.60	-1.41
85	122	207	-6.08	-5.87	-11.95	8.82	16.26	2.65	7.36	-4.40	3.49	5.52		10.15	.28	4	7.07	6.75	-13.29	-7.21	-1.34
85	123	208	-4.52	-6.58	-11.10	7.23	16.04	2.95	7.77	-2.50	4.75	5.32		10.10	.28	4	7.09	6.75	-12.54	-8.02	-1.44
85	124	209	-4.30	-7.33	-11.63	8.59	15.83	3.07	8.19	-3.76	2.86	5.12		10.05	.28	4	7.10	6.76	-12.88	-8.58	-1.25
85	125	210	-2.48	-8.10	-10.58	7.02	15.62	3.38	8.61	-1.89	4.11	4.90		9.99	.28	4	7.12	6.76	-12.07	-9.59	-1.49
85	126	211	-1.98	-8.90	-10.88	8.38	15.39	3.48	9.01	-3.13	.50	4.71		9.92	.28	4	7.13	6.77	-11.64	-9.66	-.76
85	127	212	.11	-7.99	-7.88	5.07	13.45	3.79	9.43	.47	1.75	6.25		9.84	.28	4	7.14	6.78	-8.62	-8.73	-.74
85	128	213	.87	-7.12	-6.25	6.44	11.51	3.91	9.85	-.79	-.10	7.78		9.75	.28	4	7.16	6.78	-6.58	-7.45	-.93
85	129	214	3.22	-6.29	-3.07	4.89	11.33	4.21	10.27	1.05	1.15	7.53		9.66	.28	4	7.17	6.79	-3.41	-6.63	-.34
85	130	215	4.25	-5.49	-1.24	6.25	11.14	4.32	10.66	-.19	-.68	7.32		9.56	.28	4	7.19	6.80	-1.25	-5.50	-.01
85	131	216	6.85	-4.74	2.11	4.71	10.97	4.62	11.08	1.64	.56	7.07		9.45	.28	4	7.20	6.80	2.26	-4.59	.15
85	132	217	8.13	-4.02	4.11	6.07	10.79	4.73	11.48	.39	-1.26	6.84		9.33	.28	4	7.22	6.81	4.40	-3.73	.29
85	133	218	10.98	-3.34	7.64	4.54	10.61	5.02	11.88	2.22	-.01	6.60		9.20	.28	4	7.23	6.82	8.12	-2.86	.48
85	134	219	12.51	-2.70	9.81	5.90	10.44	5.13	12.28	.97	-1.82	6.37		9.07	.28	4	7.25	6.82	10.54	-1.97	.73
85	135	220	15.59	-2.10	13.49	4.38	10.29	5.43	12.69	2.77	-.59	6.12		8.93	.28	4	7.26	6.83	14.22	-1.37	.73
85	136	221	17.36	-1.53	15.83	5.74	10.12	5.54	13.08	1.52	-2.39	5.89		8.78	.28	4	7.27	6.83			
85	137	222	20.69	-1.00	19.69	4.21	9.95	5.82	13.47	3.33	-1.14	5.66		8.63	.28	4	7.29	6.84			
85	138	223	22.69	-.50	22.19	5.57	9.79	5.93	13.87	2.08	-2.94	5.43		8.47	.28	4	7.30	6.85			
85	139	224	26.24	-.04	26.20	4.06	9.63	6.22	14.26	3.87	-1.70	5.19		8.30	.28	4	7.32	6.85			
85	140	225	28.48	.39	28.87	5.41	9.47	6.32	14.64	2.64	-3.48	4.97		8.15	.26	4	7.33	6.86			
85	141	226	32.26	.67	32.93	4.01	9.42	6.71	15.13	4.60	-2.35	4.63	.09	8.00	.26	4	7.34	6.87			
85	142	227	34.72	.70	35.42	5.58	9.59	7.15	15.84	3.45	-4.31	4.07	.12	7.84	.26	4	7.36	6.87			
85	143	228	38.71	.65	39.36	4.13	9.71	7.65	16.60	5.28	-3.17	3.45	.13	7.67	.26	4	7.37	6.88			
85	144	229	41.40	.58	41.98	5.46	9.58	7.84	17.33	4.11	-4.99	2.87	.14	7.50	.26	4	7.39	6.89			
85	145	230	45.60	.50	46.10	3.95	9.41	8.17	17.98	5.91	-3.82	2.30	.15	7.32	.26	4	7.40	6.89			
85	146	231	48.50	.41	48.91	5.26	9.21	8.29	18.48	4.72	-5.63	1.76	.15	7.14	.26	4	7.41	6.90			
85	147	232	52.91	.34	53.25	3.74	8.99	8.58	18.92	6.52	-4.44	1.32	.16	6.96	.26	4	7.43	6.91			
85	148	233	56.03	.26	56.29	5.03	8.77	8.68	19.32	5.33	-6.23	1.05	.16	6.77	.26	4	7.44	6.91			
85	149	234	60.64	.20	60.84	3.52	8.55	8.96	19.72	7.11	-5.04	.83	.16	6.57	.26	4	7.45	6.92			
85	150	235	63.96	.15	64.11	4.81	8.32	9.06	20.08	5.92	-6.81	.65	.16	6.37	.26	4	7.47	6.92			
85	151	236	68.77	.10	68.87	3.30	8.11	9.33	20.46	7.68	-5.62	.47	.16	6.19	.24	4	7.48	6.93			
85	152	237	72.29	.07	72.36	4.58	7.89	9.42	20.82	6.50	-7.38	.32	.16	6.01	.24	4	7.49	6.94			
85	153	238	77.29	.05	77.34	3.09	7.68	9.69	21.18	8.25	-6.20	.16	.16	5.83	.24	4	7.51	6.94			
85	154	239	81.01	.04	81.05	4.37	7.45	9.78	21.52	7.07	-7.94	.03	.16	5.65	.24	4	7.52	6.95			
85	155	240	86.20	.04	86.24	2.88	7.25	10.04	21.87	8.81	-6.75	-.12	.16	5.46	.24	4	7.53	6.96			
85	156	241	90.11	.05	90.16	4.16	7.03	10.13	22.20	7.63	-8.49	-.25	.16	5.27	.24	4	7.55	6.96			
85	157	242	95.49	.07	95.56	2.67	6.82	10.38	22.54	9.36	-7.30	-.39	.16	5.07	.24	4	7.56	6.97			
85	158	243	99.59	.10	99.69	3.94	6.61	10.46	22.85	8.18	-9.02	-.52	.16	4.88	.24	4	7.57	6.98			
85	159	244	105.15	.14	105.29	2.47	6.41	10.71	23.17	9.90	-7.82	-.65	.16	4.68	.22	4	7.59	6.98			
85	160	245	109.43	.19	109.62	3.74	6.21	10.78	23.46	8.71	-9.52	-.77	.16	4.51	.22	4	7.60	6.99			
85	161	246	115.16	.25	115.41	2.28	6.02	11.03	23.73	10.42	-8.31	-.90	.15	4.34	.22	4	7.61	7.00			
85	162	247	119.62	.31	119.93	3.55	5.83	11.08	23.91	9.22	-9.98	-1.00	.15	4.16	.22	4	7.63	7.00			
85	163	248	125.53	.38	125.91	2.10	5.64	11.29	23.92	10.91	-8.67	-1.08	.14	3.99	.22	4	7.64	7.01			
85	164	249	130.17	.44	130.61	3.37	5.46	11.26	23.88	9.71	-10.03	-1.08	.13	3.80	.22	4	7.65	7.02			
85	165	250	136.24	.47	136.71	1.96	5.34	11.22	23.86	11.33	-8.47	-.97	.12	3.62	.22	4	7.66	7.02			
85	166	251	141.05	.41	141.46	3.32	5.28	11.00	23.88	10.00	-9.82	-.87	.07	3.44	.20	4	7.68	7.03			
85	167	252	147.29	.06	147.35	2.18	5.51	11.22	24.18	11.25	-8.58	-1.07		3.29	.20	4	7.69	7.03			
85	168	253	152.27	-.35	151.92	3.51	5.69	11.29	24.50	9.64	-10.22	-1.27		3.13	.20	4	7.70	7.04			
85	169	254	158.67	-.78	157.89	2.10	5.61	11.54	24.82	11.09	-9.01	-1.49		2.97	.20	4	7.72	7.05			

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
85	170	255	163.81	-1.24	162.57	3.40	5.50	11.62	25.14	9.88	-10.65	-1.70		2.81	.20	4	7.73	7.05			
85	171	256	170.38	-1.72	168.66	1.99	5.38	11.86	25.45	11.53	-9.43	-1.90		2.65	.20	4	7.74	7.06			
85	172	257	175.68	-2.23	173.45	3.28	5.27	11.94	25.76	10.32	-11.07	-2.11		2.51	.18	4	7.75	7.07			
85	173	258	182.40	-2.77	179.63	1.88	5.17	12.17	26.08	11.94	-9.86	-2.33		2.38	.18	4	7.77	7.07			
85	174	259	187.85	-3.32	184.53	3.18	5.06	12.26	26.39	10.74	-11.49	-2.53		2.24	.18	4	7.78	7.08			
85	175	260	194.72	-3.91	190.81	1.79	4.96	12.49	26.71	12.35	-10.29	-2.75		2.10	.18	4	7.79	7.09			
85	176	261	200.33	-4.51	195.82	3.07	4.85	12.57	27.01	11.15	-11.90	-2.95		1.97	.18	4	7.80	7.09			
85	177	262	207.35	-5.14	202.21	1.69	4.75	12.80	27.32	12.76	-10.69	-3.16		1.83	.18	4	7.82	7.10			
85	178	263	213.12	-5.80	207.32	2.96	4.65	12.87	27.62	11.56	-12.30	-3.36		1.70	.16	4	7.83	7.11			
85	179	264	220.28	-6.47	213.81	1.58	4.54	13.10	27.92	13.17	-11.10	-3.57		1.59	.16	4	7.84	7.11			
85	180	265	226.19	-7.17	219.02	2.86	4.44	13.18	28.22	11.97	-12.70	-3.77		1.47	.16	4	7.85	7.12			
85	181	266	233.50	-7.89	225.61	1.48	4.34	13.40	28.51	13.57	-11.49	-3.97		1.36	.16	4	7.87	7.13			
85	182	267	239.55	-8.64	230.91	2.76	4.25	13.48	28.82	12.36	-13.09	-4.18		1.25	.16	4	7.88	7.13			
85	183	268	247.00	-9.41	237.59	1.39	4.15	13.70	29.11	13.95	-11.89	-4.38		1.15	.14	4	7.89	7.14			
85	184	269	253.19	-10.20	242.99	2.67	4.06	13.78	29.41	12.75	-15.18	-4.59		1.06	.14	4	7.90	7.15			
85	186	271	267.11	-8.46	258.65	.88	.49	14.08	30.01	14.83	-15.55	-1.60		.88	.14	4	7.93	7.16			
85	188	273	281.30	-6.84	274.46	.80	.34	14.37	30.59	15.20	-15.92	-2.04		.71	.12	4	7.95	7.17			
85	190	275	295.75	-5.33	290.42	.72	.18	14.67	31.17	15.58	-16.27	-2.48		.58	.12	4	7.97	7.19			
85	192	277	310.46	-3.94	306.52	.65	.04	14.96	31.74	15.94	-16.63	-2.92		2.16	.19	ALP	8.00	7.20			
85	194	279	325.42	-2.67	322.75	.58	-.10	15.25	32.32	16.29	-16.99	-3.36		1.52	.19	ALP	8.02	7.21			
85	196	281	340.63	-1.50	339.13	.51	-.24	15.53	32.88	16.64	-17.33	-3.79		.93	.19	ALP	8.05	7.22			
85	198	283	356.08	-.45	355.63	.45	-.36	15.81	33.44	16.98	-17.68	-4.22		.39	.19	ALP	8.07	7.24			
85	200	285	371.78	-.10	371.68	.97	.10	16.68	34.58	17.39		-5.24	.19	-.09	.23	ALP	8.09	7.25			
85	202	287	387.70	-.55	387.15	.94	.67	17.16		17.79	-18.56	-6.96	.19	-.45	.27	ALP	8.12	7.26			
85	204	289	403.86	-.95	402.91	.80	.39	17.42		18.19	-18.95		.19	-.73	.28	ALP	8.14	7.28			
85	206	291	420.24	-1.30	418.94	.66	.12	17.68	37.19	18.59	-19.33		.19	-1.00	.29	ALP	8.16	7.29			
85	208	293	436.84	-1.61	435.23	.53	-.15	17.94	37.70	18.98	-19.72	-8.75	.19	-1.24	.29	ALP	8.18	7.30			
85	210	295	453.66	-1.88	451.78	.39	-.41	18.19	38.21	19.36	-20.10	-9.00	.19	-1.46	.29	ALP	8.21	7.32			

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86	92	178	53.00	-.11	52.89	13.27	24.89	-2.84	-7.13	-17.60	13.23	11.53		6.06	.24	4	6.59	6.58			
86	93	179	49.35	.30	49.65	11.31	24.58	-2.70	-6.62	-15.51	14.50	11.34		6.28	.24	4	6.61	6.58			
86	94	180	44.12	.65	44.77	12.95	24.26	-2.33	-6.12	-16.56	12.40	11.16	.06	6.48	.24	4	6.63	6.59			
86	95	181	40.89	.78	41.67	11.18	24.13	-2.01	-5.44	-14.30	13.49	10.79	.11	6.68	.24	4	6.65	6.60			
86	96	182	36.07	.80	36.87	12.87	24.05	-1.40	-4.70	-15.47	11.22	10.37	.13	6.87	.24	4	6.66	6.60			
86	97	183	33.22	.79	34.01	10.93	23.80	-1.07	-3.95	-13.33	12.37	9.93	.14	7.05	.24	4	6.68	6.61			
86	98	184	28.81	.77	29.58	12.51	23.43	-.64	-3.27	-14.52	10.24	9.56	.14	7.23	.26	4	6.70	6.61			
86	99	185	26.35	.75	27.10	10.55	23.06	-.46	-2.62	-12.41	11.44	9.20	.15	7.42	.26	4	6.71	6.62			
86	100	186	22.32	.73	23.05	12.12	22.67	-.10	-2.02	-13.62	9.34	8.90	.15	7.60	.26	4	6.73	6.63			
86	101	187	20.24	.72	20.96	10.16	22.28	.04	-1.47	-11.53	10.56	8.63	.15	7.77	.26	4	6.75	6.63			
86	102	188	16.59	.72	17.31	11.72	21.88	.38	-.97	-12.74	8.50	8.43	.15	7.93	.26	4	6.76	6.64			
86	103	189	14.87	.73	15.60	9.78	21.50	.50	-.52	-10.68	9.74	8.26	.15	8.08	.26	4	6.78	6.65			
86	104	190	11.59	.74	12.33	11.34	21.12	.82	-.13	-11.90	7.71	8.15	.15	8.21	.26	4	6.80	6.65			
86	105	191	10.23	.77	11.00	9.41	20.74	.91	.22	-9.85	8.99	8.08	.14	8.34	.26	4	6.81	6.66			
86	106	192	7.31	.79	8.10	10.96	20.38	1.20	.52	-11.09	7.03	8.05	.14	8.46	.26	4	6.83	6.66			
86	107	193	6.29	.82	7.11	9.06	20.03	1.25	.79	-9.08	8.40	8.05	.13	8.57	.26	4	6.85	6.67			
86	108	194	3.72	.84	4.56	10.63	19.68	1.44	1.01	-10.33	6.65	8.10	.13	8.66	.26	4	6.86	6.68			
86	109	195	3.04	.83	3.87	8.76	19.38	1.33	1.23	-8.38	8.15	8.13	.11	8.75	.26	4	6.88	6.68			
86	110	196	.81	.76	1.57	10.37	19.13	1.44	1.46	-9.72	6.39	8.16	.08	8.83	.26	4	6.89	6.69			
86	111	197	.46	.52	.98	8.66	19.03	1.48	1.84	-8.00	7.74	8.03		8.90	.26	4	6.91	6.70			
86	112	198	-1.44	.17	-1.27	10.32	18.98	1.80	2.27	-9.58	5.79	7.85		8.96	.26	4	6.93	6.70			
86	113	199	-1.48	-.22	-1.70	8.49	18.82	1.93	2.73	-7.92	7.04	7.64		9.01	.26	4	6.94	6.71			
86	114	200	-3.05	-.64	-3.69	10.07	18.56	2.24	3.16	-9.23	5.11	7.46		9.05	.26	4	6.96	6.71	-3.02	.03	.67
86	115	201	-2.78	-1.09	-3.87	8.25	18.32	2.36	3.60	-7.29	6.37	7.25		9.10	.28	4	6.97	6.72	-3.47	-.69	.40
86	116	202	-4.04	-1.58	-5.62	9.82	18.07	2.68	4.03	-8.54	4.44	7.07		9.13	.28	4	6.99	6.73	-5.55	-1.51	.07
86	117	203	-3.46	-2.11	-5.57	8.02	17.84	2.79	4.47	-6.63	5.69	6.85		9.15	.28	4	7.00	6.73	-5.80	-2.34	-.23
86	118	204	-4.41	-2.66	-7.07	9.58	17.59	3.10	4.89	-7.87	3.79	6.67		9.17	.28	4	7.02	6.74	-7.66	-3.25	-.59
86	119	205	-3.54	-3.25	-6.79	7.79	17.37	3.22	5.33	-5.96	5.04	6.46		9.17	.28	4	7.03	6.75	-7.61	-4.07	-.82
86	120	206	-4.19	-3.87	-8.06	9.34	17.13	3.52	5.74	-7.20	3.15	6.27		9.17	.28	4	7.05	6.75	-9.08	-4.89	-1.02
86	121	207	-3.03	-4.52	-7.55	7.56	16.91	3.63	6.17	-5.31	4.40	6.07		9.16	.28	4	7.06	6.76	-8.75	-5.72	-1.20
86	122	208	-3.39	-5.20	-8.59	9.11	16.67	3.93	6.58	-6.55	2.52	5.88		9.13	.28	4	7.08	6.76	-9.75	-6.36	-1.16
86	123	209	-1.95	-5.92	-7.87	7.34	16.46	4.05	7.01	-4.67	3.76	5.66		9.10	.28	4	7.09	6.77	-9.12	-7.17	-1.25
86	124	210	-2.03	-6.66	-8.69	8.90	16.24	4.35	7.42	-5.91	1.89	5.47		9.06	.28	4	7.11	6.78	-9.72	-7.69	-1.03
86	125	211	-.31	-7.43	-7.74	7.13	16.02	4.46	7.83	-4.03	3.15	5.27		9.01	.28	4	7.12	6.78	-8.74	-8.43	-1.00
86	126	212	-.11	-8.24	-8.35	8.67	15.81	4.75	8.24	-5.28	-.47	5.07		8.95	.28	4	7.14	6.79	-8.65	-8.54	-.30
86	127	213	1.87	-7.33	-5.46	5.18	13.86	4.87	8.66	-1.67	.79	6.61		8.88	.28	4	7.15	6.80	-5.70	-7.57	-.24
86	128	214	2.34	-6.46	-4.12	6.73	11.91	5.17	9.07	-2.92	-1.06	8.15		8.81	.28	4	7.17	6.80	-4.31	-6.65	-.19
86	129	215	4.58	-5.64	-1.06	5.00	11.74	5.28	9.49	-1.08	.19	7.89		8.73	.26	4	7.18	6.81	-1.17	-5.75	-.11
86	130	216	5.32	-4.85	.47	6.55	11.55	5.57	9.89	-2.32	-1.64	7.68		8.65	.26	4	7.20	6.82	.26	-5.06	-.21
86	131	217	7.81	-4.10	3.71	4.83	11.38	5.69	10.31	-.49	-.40	7.43		8.56	.26	4	7.21	6.82	3.67	-4.14	-.04
86	132	218	8.81	-3.38	5.43	6.36	11.18	5.97	10.70	-1.72	-2.20	7.22		8.47	.26	4	7.22	6.83	5.23	-3.58	-.20
86	133	219	11.55	-2.71	8.84	4.65	11.02	6.08	11.11	.10	-.96	6.97		8.37	.26	4	7.24	6.83	8.86	-2.69	.02
86	134	220	12.79	-2.07	10.72	6.19	10.84	6.37	11.51	-1.15	-2.77	6.75		8.26	.26	4	7.25	6.84	10.62	-2.17	-.10
86	135	221	15.78	-1.47	14.31	4.48	10.67	6.47	11.90	.67	-1.52	6.51		8.15	.26	4	7.27	6.85	14.39	-1.39	.08
86	136	222	17.27	-.91	16.36	6.01	10.50	6.76	12.30	-.57	-3.33	6.29		8.03	.26	4	7.28	6.85	16.40	-.87	.04
86	137	223	20.49	-.38	20.11	4.32	10.34	6.86	12.69	1.23	-2.08	6.05		7.91	.26	4	7.30	6.86			
86	138	224	22.22	.12	22.34	5.84	10.16	7.15	13.07	-.00	-3.87	5.83		7.78	.26	4	7.31	6.87			
86	139	225	25.66	.57	26.23	4.18	10.02	7.27	13.48	1.83	-2.64	5.58	.05	7.65	.26	4	7.32	6.87			
86	140	226	27.63	.70	28.33	5.98	10.15	7.83	14.15	.71	-4.59	5.07	.11	7.51	.26	4	7.34	6.88			
86	141	227	31.30	.67	31.97	4.43	10.41	8.25	14.96	2.55	-3.45	4.41	.13	7.36	.26	4	7.35	6.89			
86	142	228	33.50	.58	34.08	5.96	10.39	8.62	15.78	1.37	-5.29	3.75	.14	7.21	.26	4	7.37	6.89			
86	143	229	37.39	.49	37.88	4.28	10.23	8.78	16.43	3.20	-4.10	3.10	.15	7.05	.26	4	7.38	6.90			
86	144	230	39.80	.38	40.18	5.76	10.04	9.08	16.93	2.00	-5.92	2.48	.15	6.89	.26	4	7.39	6.90			
86	145	231	43.91	.28	44.19	4.07	9.83	9.20	17.36	3.81	-4.73	2.04	.16	6.72	.26	4	7.41	6.91			
86	146	232	46.55	.19	46.74	5.53	9.59	9.47	17.76	2.64	-6.51	1.78	.16	6.55	.26	4	7.42	6.92			
86	147	233	50.86	.10	50.96	3.84	9.38	9.58	18.16	4.42	-5.33	1.56	.16	6.39	.24	4	7.43	6.92			
86	148	234	53.71	.02	53.73	5.30	9.15	9.85	18.54	3.24	-7.11	1.39	.16	6.24	.24	4	7.45	6.93			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
86	149	235	58.23	-.04	58.19	3.62	8.92	9.94	18.90	5.02	-5.91	1.22	.16	6.08	.24	4	7.46	6.94			
86	150	236	61.29	-.10	61.19	5.07	8.69	10.20	19.27	3.84	-7.68	1.08	.17	5.92	.24	4	7.47	6.94			
86	151	237	66.01	-.15	65.86	3.39	8.47	10.30	19.63	5.60	-6.50	.92	.17	5.75	.24	4	7.49	6.95			
86	152	238	69.27	-.18	69.09	4.84	8.24	10.56	19.98	4.43	-8.25	.79	.17	5.58	.24	4	7.50	6.96			
86	153	239	74.18	-.20	73.98	3.18	8.02	10.65	20.34	6.18	-7.07	.64	.17	5.41	.24	4	7.51	6.96			
86	154	240	77.64	-.21	77.43	4.62	7.80	10.91	20.68	5.00	-8.81	.51	.17	5.23	.24	4	7.53	6.97			
86	155	241	82.74	-.21	82.53	2.97	7.59	11.00	21.04	6.74	-7.63	.36	.17	5.05	.24	4	7.54	6.98			
86	156	242	86.40	-.20	86.20	4.40	7.37	11.25	21.37	5.57	-9.36	.24	.17	4.87	.24	4	7.55	6.98			
86	157	243	91.69	-.18	91.51	2.76	7.16	11.33	21.72	7.30	-8.17	.10	.17	4.71	.22	4	7.57	6.99			
86	158	244	95.53	-.14	95.39	4.20	6.95	11.59	22.05	6.12	-9.90	-.03	.17	4.55	.22	4	7.58	6.99			
86	159	245	101.01	-.10	100.91	2.55	6.74	11.66	22.38	7.85	-8.70	-.16	.16	4.39	.22	4	7.59	7.00			
86	160	246	105.04	-.04	105.00	3.98	6.53	11.91	22.69	6.67	-10.41	-.28	.16	4.22	.22	4	7.61	7.01			
86	161	247	110.69	.02	110.71	2.35	6.34	11.99	23.01	8.38	-9.22	-.42	.16	4.05	.22	4	7.62	7.01			
86	162	248	114.90	.09	114.99	3.79	6.15	12.23	23.31	7.19	-10.92	-.55	.16	3.88	.22	4	7.63	7.02			
86	163	249	120.73	.18	120.91	2.16	5.94	12.29	23.57	8.91	-9.69	-.66	.15	3.71	.22	4	7.65	7.03			
86	164	250	125.12	.26	125.38	3.59	5.76	12.51	23.78	7.72	-11.34	-.77	.15	3.54	.20	4	7.66	7.03			
86	165	251	131.11	.35	131.46	1.99	5.59	12.55	23.76	9.39	-10.01	-.87	.14	3.39	.20	4	7.67	7.04			
86	166	252	135.68	.42	136.10	3.43	5.42	12.65	23.65	8.18	-11.26	-.91	.13	3.24	.20	4	7.68	7.05			
86	167	253	141.84	.45	142.29	1.88	5.31	12.36	23.57	9.79	-9.63	-.78	.11	3.09	.20	4	7.70	7.05			
86	168	254	146.58	.22	146.80	3.56	5.44	12.41	23.71	8.28	-11.10	-.80		2.94	.20	4	7.71	7.06			
86	169	255	152.90	-.21	152.69	2.18	5.74	12.50	24.03	9.45	-9.88	-1.02		2.79	.20	4	7.72	7.07			
86	170	256	157.80	-.67	157.13	3.63	5.81	12.74	24.35	7.92	-11.52	-1.23		2.64	.18	4	7.73	7.07			
86	171	257	164.29	-1.16	163.13	2.07	5.70	12.81	24.67	9.56	-10.31	-1.44		2.51	.18	4	7.75	7.08			
86	172	258	169.35	-1.67	167.68	3.52	5.59	13.05	24.99	8.35	-11.95	-1.65		2.38	.18	4	7.76	7.09			
86	173	259	175.99	-2.20	173.79	1.97	5.48	13.13	25.31	9.98	-10.74	-1.86		2.25	.18	4	7.77	7.09			
86	174	260	181.22	-2.76	178.46	3.40	5.37	13.36	25.61	8.78	-12.36	-2.06		2.12	.18	4	7.79	7.10			
86	175	261	188.01	-3.34	184.67	1.86	5.27	13.44	25.92	10.40	-11.15	-2.27		1.98	.18	4	7.80	7.10			
86	176	262	193.39	-3.95	189.44	3.30	5.16	13.67	26.24	9.20	-12.77	-2.48		1.85	.18	4	7.81	7.11			
86	177	263	200.34	-4.58	195.76	1.76	5.05	13.74	26.54	10.82	-11.56	-2.68		1.73	.16	4	7.82	7.12			
86	178	264	205.87	-5.23	200.64	3.19	4.95	13.97	26.84	9.62	-13.17	-2.88		1.62	.16	4	7.83	7.12			
86	179	265	212.96	-5.91	207.05	1.66	4.85	14.04	27.15	11.22	-11.97	-3.09		1.51	.16	4	7.85	7.13			
86	180	266	218.65	-6.61	212.04	3.08	4.75	14.26	27.44	10.03	-13.56	-3.29		1.40	.16	4	7.86	7.14			
86	181	267	225.88	-7.33	218.55	1.56	4.65	14.34	27.75	11.63	-12.36	-3.50		1.29	.16	4	7.87	7.14			
86	182	268	231.71	-8.07	223.64	2.98	4.55	14.56	28.04	10.44	-13.95	-3.69		1.19	.14	4	7.88	7.15			
86	183	269	239.08	-8.84	230.24	1.47	4.45	14.64	28.34	12.02	-12.76	-3.90		1.10	.14	4	7.90	7.16			
86	184	270	245.06	-9.63	235.43	2.88	4.35	14.85	28.63	10.83	-16.03	-4.10		1.01	.14	4	7.91	7.16			
86	186	272	258.69	-7.90	250.79	1.10	.79	15.15	29.23	12.91	-16.40	-1.12		.83	.14	4	7.93	7.18			
86	188	274	272.59	-6.28	266.31	1.02	.63	15.44	29.81	13.30	-16.76	-1.56		.69	.12	4	7.96	7.19			
86	190	276	286.76	-4.78	281.98	.94	.47	15.73	30.39	13.68	-17.11	-1.99		.55	.12	4	7.98	7.20			
86	192	278	301.18	-3.40	297.78	.87	.33	16.02	30.98	14.03	-17.48	-2.44		1.91	.19	ALP	8.00	7.22			
86	194	280	315.87	-2.13	313.74	.79	.19	16.30	31.55	14.40	-17.83	-2.87		1.28	.19	ALP	8.03	7.23			
86	196	282	330.81	-.97	329.84	.72	.04	16.58	32.10	14.76	-18.17	-3.29		.69	.19	ALP	8.05	7.24			
86	198	284	345.99	.08	346.07	.65	-.09	16.86	32.66	15.11	-18.51	-3.72		.16	.21	ALP	8.07	7.25			
86	200	286	361.42	-.34	361.08	1.27	1.13	17.88	34.57	15.48	-18.94	-5.50	.19	-.25	.27	ALP	8.10	7.27			
86	202	288	377.08	-.78	376.30	1.13	.92	18.14	35.30	15.89	-19.34	-7.20	.19	-.55	.29	ALP	8.12	7.28			
86	204	290	392.97	-1.17	391.80	1.00	.64	18.41	35.82	16.30	-19.73	-7.65	.19	-.83	.29	ALP	8.14	7.29			
86	206	292	409.09	-1.53	407.56	.86	.38	18.66	36.35	16.69	-20.13	-7.91	.19	-1.08	.30	ALP	8.17	7.31			
86	208	294	425.44	-1.83	423.61	.72	.10	18.91	36.85	17.10	-20.49	-8.14	.19	-1.31	.30	ALP	8.19	7.32			
86	210	296	442.00	-2.10	439.90	.59	-.15	19.17	37.36	17.48	-20.88	-8.40	.19	-1.54	.30	ALP	8.21	7.33			

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87	97	184	43.51	.59	44.10	11.31	24.38	-2.80	-3.87	-12.25	14.53	9.31	.16	6.13	.24	4	6.69	6.63			
87	98	185	38.96	.55	39.51	12.66	23.97	-2.65	-3.29	-13.45	12.41	8.91	.16	6.31	.24	4	6.71	6.64			
87	99	186	36.16	.51	36.67	10.91	23.57	-2.29	-2.75	-11.36	13.62	8.59	.16	6.47	.24	4	6.72	6.64			
87	100	187	32.00	.49	32.49	12.25	23.16	-2.15	-2.25	-12.57	11.53	8.42	.16	6.63	.24	4	6.74	6.65			
87	101	188	29.58	.48	30.06	10.50	22.75	-1.81	-1.77	-10.48	12.75	8.29	.16	6.78	.24	4	6.76	6.65			
87	102	189	25.80	.48	26.28	11.85	22.35	-1.68	-1.30	-11.70	10.68	8.19	.16	6.92	.24	4	6.77	6.66			
87	103	190	23.74	.49	24.23	10.12	21.97	-1.34	-.84	-9.64	11.90	8.09	.16	7.06	.24	4	6.79	6.67			
87	104	191	20.34	.52	20.86	11.45	21.56	-1.23	-.42	-10.85	9.86	8.04	.16	7.18	.24	4	6.81	6.67			
87	105	192	18.64	.55	19.19	9.73	21.19	-.90	.01	-8.81	11.09	7.95	.16	7.31	.26	4	6.82	6.68			
87	106	193	15.59	.59	16.18	11.08	20.82	-.79	.41	-10.04	9.07	7.89	.16	7.44	.26	4	6.84	6.68			
87	107	194	14.24	.64	14.88	9.37	20.45	-.48	.77	-8.02	10.32	7.83	.15	7.56	.26	4	6.85	6.69			
87	108	195	11.55	.70	12.25	10.71	20.08	-.40	1.04	-9.24	8.38	7.81	.15	7.67	.26	4	6.87	6.70			
87	109	196	10.54	.75	11.29	9.03	19.74	-.13	1.20	-7.26	9.72	7.79	.14	7.76	.26	4	6.89	6.70			
87	110	197	8.19	.79	8.98	10.38	19.41	-.13	1.32	-8.52	8.00	7.85	.13	7.85	.26	4	6.90	6.71			
87	111	198	7.51	.80	8.31	8.74	19.12	-.05	1.44	-6.60	9.58	7.97	.12	7.93	.26	4	6.92	6.72			
87	112	199	5.49	.73	6.22	10.17	18.90	-.20	1.60	-7.96	7.92	8.07	.C8	8.01	.26	4	6.93	6.72			
87	113	200	5.13	.41	5.54	8.75	18.92	.06	1.98	-6.36	9.23	7.94		8.07	.26	4	6.95	6.73			
87	114	201	3.44	-.02	3.42	10.19	18.94	.17	2.42	-8.00	7.29	7.75		8.12	.26	4	6.96	6.73			
87	115	202	3.40	-.47	2.93	8.57	18.75	.49	2.85	-6.28	8.55	7.56		8.17	.26	4	6.98	6.74			
87	116	203	2.02	-.96	1.06	9.94	18.51	.61	3.28	-7.54	6.62	7.37		8.20	.26	4	7.00	6.75	1.64	-.38	.58
87	117	204	2.28	-1.48	.80	8.33	18.27	.93	3.72	-5.62	7.87	7.17		8.23	.26	4	7.01	6.75	1.12	-1.16	.32
87	118	205	1.21	-2.04	-.83	9.70	18.03	1.05	4.15	-6.87	5.96	6.98		8.25	.26	4	7.03	6.76	-.77	-1.98	.06
87	119	206	1.77	-2.63	-.86	8.10	17.80	1.36	4.58	-4.97	7.20	6.78		8.26	.26	4	7.04	6.77	-1.08	-2.85	-.22
87	120	207	1.00	-3.25	-2.25	9.46	17.56	1.48	5.00	-6.22	5.30	6.59		8.26	.26	4	7.06	6.77	-2.59	-3.59	-.34
87	121	208	1.86	-3.90	-2.04	7.87	17.33	1.78	5.41	-4.32	6.56	6.40		8.26	.26	4	7.07	6.78	-2.66	-4.52	-.62
87	122	209	1.38	-4.58	-3.20	9.23	17.10	1.90	5.83	-5.57	4.67	6.20		8.25	.26	4	7.09	6.78	-3.80	-5.18	-.60
87	123	210	2.52	-5.29	-2.77	7.65	16.87	2.20	6.24	-3.68	5.92	6.01		8.23	.26	4	7.10	6.79	-3.52	-6.04	-.75
87	124	211	2.33	-6.04	-3.71	9.00	16.65	2.31	6.66	-4.93	4.04	5.81		8.20	.26	4	7.12	6.80	-4.20	-6.53	-.49
87	125	212	3.74	-6.81	-3.07	7.43	16.44	2.61	7.07	-3.06	5.28	5.61		8.16	.26	4	7.13	6.80	-3.58	-7.32	-.51
87	126	213	3.83	-7.61	-3.78	8.78	16.21	2.72	7.47	-4.30	1.68	5.42		8.12	.26	4	7.15	6.81	-3.55	-7.38	.23
87	127	214	5.51	-6.71	-1.20	5.49	14.27	3.03	7.90	-.71	2.92	6.95		8.07	.26	4	7.16	6.82	-1.06	-6.57	.14
87	128	215	5.87	-5.85	.02	6.85	12.34	3.15	8.31	-1.96	1.07	8.48		8.02	.26	4	7.17	6.82	.33	-5.54	.31
87	129	216	7.82	-5.03	2.79	5.30	12.15	3.44	8.72	-.12	2.32	8.25		7.95	.26	4	7.19	6.83	2.98	-4.84	.19
87	130	217	8.44	-4.24	4.20	6.66	11.97	3.56	9.13	-1.36	.48	8.02		7.88	.26	4	7.20	6.83	4.32	-4.12	.12
87	131	218	10.65	-3.50	7.15	5.12	11.78	3.85	9.54	.47	1.73	7.79		7.81	.26	4	7.22	6.84	7.01	-3.64	-.14
87	132	219	11.53	-2.79	8.74	6.48	11.61	3.97	9.94	-.78	-.10	7.56		7.72	.26	4	7.23	6.85	8.61	-2.92	-.13

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP NEU	RADIUS PRO	EXPERIMENTAL MASS	SHELL	DIFF
87	133	220	13.98	-2.12	11.86	4.95	11.43	4.26	10.35	1.04	1.14	7.33		7.63	.26	4	7.25	6.85	11.48	-2.50	-.38
87	134	221	15.12	-1.48	13.64	6.30	11.25	4.37	10.74	-.20	-.67	7.11		7.54	.26	4	7.26	6.86	13.28	-1.84	-.36
87	135	222	17.82	-.89	16.93	4.78	11.08	4.66	11.14	1.60	.57	6.87		7.43	.26	4	7.28	6.87	16.36	-1.46	-.57
87	136	223	19.21	-.32	18.89	6.12	10.89	4.76	11.52	.38	-1.22	6.66		7.32	.26	4	7.29	6.87	18.41	-.80	-.48
87	137	224	22.14	.20	22.34	4.61	10.74	5.06	11.93	2.16	.01	6.42		7.21	.26	4	7.30	6.88	21.73	-.41	-.61
87	138	225	23.77	.63	24.40	6.01	10.62	5.22	12.37	.97	-1.83	6.14	.08	7.09	.26	4	7.32	6.89			
87	139	226	26.93	.69	27.62	4.85	10.86	5.90	13.16	2.81	-.71	5.51	.12	6.96	.26	4	7.33	6.89			
87	140	227	28.80	.62	29.42	6.27	11.12	6.19	14.03	1.63	-2.55	4.80	.14	6.83	.26	4	7.35	6.90			
87	141	228	32.19	.52	32.71	4.79	11.06	6.55	14.79	3.46	-1.37	4.08	.15	6.70	.24	4	7.36	6.90			
87	142	229	34.29	.40	34.69	6.09	10.87	6.68	15.31	2.28	-3.18	3.39	.15	6.58	.24	4	7.37	6.91			
87	143	230	37.90	.28	38.18	4.58	10.67	6.99	15.76	4.08	-2.01	2.83	.16	6.46	.24	4	7.39	6.92			
87	144	231	40.22	.16	40.38	5.87	10.45	7.10	16.18	2.90	-3.81	2.54	.16	6.33	.24	4	7.40	6.92			
87	145	232	44.05	.05	44.10	4.35	10.22	7.38	16.58	4.69	-2.63	2.31	.16	6.19	.24	4	7.41	6.93			
87	146	233	46.59	-.05	46.54	5.64	9.98	7.48	16.96	3.51	-4.42	2.14	.16	6.05	.24	4	7.43	6.94			
87	147	234	50.64	-.14	50.50	4.11	9.75	7.75	17.33	5.30	-3.23	1.98	.17	5.91	.24	4	7.44	6.94			
87	148	235	53.39	-.22	53.17	5.40	9.51	7.85	17.70	4.11	-5.02	1.83	.17	5.76	.24	4	7.45	6.95			
87	149	236	57.64	-.29	57.35	3.89	9.29	8.13	18.07	5.89	-3.84	1.67	.17	5.61	.24	4	7.47	6.96			
87	150	237	60.60	-.35	60.25	5.17	9.06	8.22	18.43	4.70	-5.61	1.54	.17	5.45	.24	4	7.48	6.96			
87	151	238	65.06	-.39	64.67	3.66	8.82	8.48	18.78	6.47	-4.42	1.40	.17	5.29	.24	4	7.50	6.97			
87	152	239	68.23	-.43	67.80	4.93	8.60	8.57	19.14	5.29	-6.18	1.27	.17	5.13	.24	4	7.51	6.97			
87	153	240	72.88	-.45	72.43	3.44	8.38	8.84	19.49	7.04	-5.00	1.13	.17	4.97	.22	4	7.52	6.98			
87	154	241	76.24	-.46	75.78	4.72	8.16	8.93	19.84	5.85	-6.75	1.00	.17	4.83	.22	4	7.54	6.99			
87	155	242	81.09	-.46	80.63	3.23	7.94	9.19	20.19	7.60	-5.57	.86	.17	4.68	.22	4	7.55	6.99			
87	156	243	84.65	-.44	84.21	4.50	7.72	9.28	20.53	6.42	-7.30	.74	.17	4.53	.22	4	7.56	7.00			
87	157	244	89.69	-.42	89.27	3.01	7.51	9.53	20.87	8.16	-6.12	.61	.17	4.38	.22	4	7.57	7.01			
87	158	245	93.44	-.38	93.06	4.28	7.29	9.62	21.20	6.98	-7.85	.48	.17	4.23	.22	4	7.59	7.01			
87	159	246	98.66	-.34	98.32	2.81	7.09	9.87	21.54	8.69	-6.67	.34	.17	4.07	.22	4	7.60	7.02			
87	160	247	102.61	-.28	102.33	4.07	6.87	9.95	21.86	7.52	-8.38	.22	.17	3.91	.22	4	7.61	7.03			
87	161	248	108.00	-.21	107.79	2.61	6.68	10.21	22.20	9.23	-7.21	.08	.17	3.75	.22	4	7.63	7.03			
87	162	249	112.13	-.13	112.00	3.87	6.47	10.29	22.51	8.06	-8.90	-.04	.16	3.60	.20	4	7.64	7.04			
87	163	250	117.71	-.04	117.67	2.40	6.27	10.52	22.82	9.76	-7.71	-.16	.16	3.46	.20	4	7.65	7.04			
87	164	251	122.01	.05	122.06	3.67	6.08	10.60	23.12	8.57	-9.40	-.30	.16	3.32	.20	4	7.67	7.05			
87	165	252	127.76	.16	127.92	2.22	5.89	10.83	23.38	10.26	-8.18	-.41	.16	3.17	.20	4	7.68	7.06			
87	166	253	132.24	.26	132.50	3.49	5.71	10.89	23.54	9.07	-9.78	-.53	.15	3.03	.20	4	7.69	7.06			
87	167	254	138.16	.36	138.52	2.06	5.54	11.06	23.42	10.73	-8.28	-.62	.14	2.88	.20	4	7.70	7.07			
87	168	255	142.81	.42	143.23	3.36	5.42	10.85	23.27	9.49	-9.46	-.66	.12	2.73	.20	4	7.72	7.08			
87	169	256	148.90	.32	149.22	2.09	5.44	10.76	23.25	10.95	-7.91	-.56		2.61	.18	4	7.73	7.08			
87	170	257	153.72	-.14	153.58	3.71	5.80	10.84	23.57	9.22	-9.55	-.77		2.49	.18	4	7.74	7.09			
87	171	258	159.96	-.63	159.33	2.31	6.03	11.09	23.90	10.44	-8.36	-.99		2.36	.18	4	7.75	7.10			
87	172	259	164.95	-1.14	163.81	3.59	5.91	11.16	24.21	9.23	-9.98	-1.19		2.24	.18	4	7.77	7.10			
87	173	260	171.35	-1.67	169.68	2.20	5.80	11.40	24.53	10.85	-8.78	-1.40		2.11	.18	4	7.78	7.11			
87	174	261	176.50	-2.23	174.27	3.48	5.68	11.48	24.84	9.66	-10.40	-1.60		1.98	.18	4	7.79	7.12			
87	175	262	183.06	-2.81	180.25	2.09	5.57	11.71	25.15	11.28	-9.20	-1.80		1.85	.18	4	7.80	7.12			
87	176	263	188.36	-3.42	184.94	3.37	5.47	11.79	25.46	10.07	-10.82	-2.01		1.74	.16	4	7.82	7.13			
87	177	264	195.07	-4.05	191.02	1.99	5.37	12.03	25.77	11.68	-9.62	-2.22		1.63	.16	4	7.83	7.14			
87	178	265	200.53	-4.70	195.83	3.26	5.26	12.10	26.07	10.49	-11.22	-2.42		1.53	.16	4	7.84	7.14			
87	179	266	207.39	-5.38	202.01	1.89	5.16	12.33	26.38	12.09	-10.03	-2.63		1.42	.16	4	7.85	7.15			
87	180	267	213.00	-6.08	206.92	3.16	5.05	12.41	26.68	10.89	-11.63	-2.82		1.31	.16	4	7.87	7.15			
87	181	268	220.00	-6.80	213.20	1.79	4.95	12.64	26.98	12.48	-10.44	-3.03		1.21	.14	4	7.88	7.16			
87	182	269	225.76	-7.54	218.22	3.06	4.85	12.71	27.27	11.30	-12.02	-3.22		1.13	.14	4	7.89	7.17			
87	183	270	232.91	-8.31	224.60	1.69	4.75	12.93	27.57	12.88	-10.83	-3.43		1.04	.14	4	7.90	7.17			
87	184	271	238.81	-9.10	229.71	2.96	4.65	13.01	27.86	11.69	-14.11	-3.63		.96	.14	4	7.91	7.18			
87	186	273	252.14	-7.37	244.77	1.18	1.09	13.31	28.46	13.76	-14.49	-.65		.79	.12	4	7.94	7.19			
87	188	275	265.75	-5.76	259.99	1.10	.93	13.61	29.05	14.14	-14.85	-1.09		.66	.12	4	7.96	7.21			
87	190	277	279.63	-4.27	275.36	1.02	.77	13.90	29.63	14.52	-15.22	-1.52		.53	.12	4	7.99	7.22			
87	192	279	293.77	-2.89	290.88	.94	.62	14.20	30.21	14.88	-15.58	-1.96		1.68	.19	ALP	8.01	7.23			
87	194	281	308.17	-1.63	306.54	.87	.48	14.49	30.79	15.24	-15.95	-2.40		1.05	.19	ALP	8.03	7.25			
87	196	283	322.83	-.48	322.35	.79	.34	14.77	31.35	15.59	-16.30	-2.82		.47	.20	ALP	8.06	7.26			
87	198	285	337.74	-.07	337.67	1.36	.83	15.69	32.54	15.86	-16.62	-3.88	.18	-.02	.25	ALP	8.08	7.27			
87	199	286	345.92	-.32	345.60	.14	1.50	15.98	33.56	17.41	-15.48	-4.83	.18	-.20	.27	ALP	8.09	7.28			
87	200	287	352.89	-.56	352.33	1.34	1.48	16.04	33.92	16.27	-17.03	-5.73	.19	-.36	.28	ALP	8.10	7.28			
87	202	289	368.28	-1.00	367.28	1.20	1.20	16.31	34.45	16.67	-17.44	-6.82	.19	-.65	.29	ALP	8.13	7.30			
87	204	291	383.91	-1.39	382.52	1.05	.91	16.57	34.97	17.08	-17.83	-7.06	.19	-.91	.30	ALP	8.15	7.31			
87	206	293	399.76	-1.74	398.02	.92	.64	16.84	35.50	17.47	-18.23	-7.32	.19	-1.15	.30	ALP	8.17	7.32			
87	208	295	415.85	-2.04	413.81	.78	.36	17.09	36.00	17.88	-18.61	-7.55	.19	-1.39	.30	ALP	8.20	7.34			
87	210	297	432.15	-2.30	429.85	.65	.10	17.35	36.51	18.26	-19.00	-7.80	.19	-1.61	.30	ALP	8.22	7.35			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP NEU	RADIUS PRO
88	93	181	70.67	.62	71.29	12.26	26.43	-2.67	-7.06	-16.39	15.32	10.78	.15	4.56	.22	4	6.63	6.63
88	94	182	64.97	.54	65.51	13.85	26.11	-2.25	-6.16	-17.58	13.17	10.20	.16	4.74	.22	4	6.65	6.63
88	95	183	61.25	.46	61.71	11.87	25.73	-2.09	-5.47	-15.44	14.37	9.63	.16	4.92	.22	4	6.66	6.64
88	96	184	55.96	.39	56.35	13.43	25.30	-1.72	-4.91	-16.63	12.25	9.15	.17	5.10	.22	4	6.68	6.64
88	97	185	52.64	.33	52.97	11.45	24.88	-1.58	-4.38	-14.51	13.46	8.88	.17	5.26	.22	4	6.70	6.65
88	98	186	47.75	.28	48.03	13.01	24.46	-1.23	-3.88	-15.72	11.36	8.74	.17	5.41	.22	4	6.71	6.66
88	99	187	44.82	.24	45.06	11.04	24.05	-1.10	-3.39	-13.62	12.57	8.62	.17	5.56	.22	4	6.73	6.66
88	100	188	40.33	.21	40.54	12.59	23.63	-.76	-2.91	-14.83	10.49	8.54	.17	5.72	.24	4	6.75	6.67
88	101	189	37.78	.20	37.98	10.63	23.22	-.64	-2.44	-12.75	11.70	8.46	.17	5.88	.24	4	6.76	6.67
88	102	190	33.67	.20	33.87	12.18	22.81	-.31	-1.98	-13.96	9.64	8.40	.17	6.03	.24	4	6.78	6.68
88	103	191	31.49	.22	31.71	10.24	22.41	-.19	-1.53	-11.89	10.86	8.33	.17	6.17	.24	4	6.80	6.69
88	104	192	27.75	.25	28.00	11.78	22.02	.14	-1.09	-13.10	8.81	8.27	.17	6.31	.24	4	6.81	6.69
88	105	193	25.93	.29	26.22	9.85	21.63	.26	-.65	-11.05	10.03	8.19	.17	6.43	.24	4	6.83	6.70
88	106	194	22.56	.34	22.90	11.39	21.24	.57	-.22	-12.26	8.01	8.14	.17	6.55	.24	4	6.85	6.71
88	107	195	21.09	.41	21.50	9.48	20.86	.68	.19	-10.23	9.25	8.08	.16	6.65	.24	4	6.86	6.71
88	108	196	18.07	.48	18.55	11.02	20.50	.99	.58	-11.45	7.26	8.02	.16	6.75	.24	4	6.88	6.72
88	109	197	16.94	.56	17.50	9.12	20.14	1.08	.95	-9.44	8.52	7.96	.16	6.84	.24	4	6.89	6.72
88	110	198	14.27	.64	14.91	10.66	19.78	1.36	1.24	-10.67	6.60	7.93	.15	6.93	.24	4	6.91	6.73
88	111	199	13.47	.71	14.18	8.80	19.46	1.42	1.38	-8.70	7.96	7.89	.14	7.00	.24	4	6.93	6.74

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	BINDING ENERGY B2N	BINDING ENERGY BZ	BINDING ENERGY B2Z	DECAY ENERGY BETA	DECAY ENERGY EL-CAP	DECAY ENERGY ALPHA	GD STA DEF	SADDLE MASS	SADDLE DEF	I	SHARP RADIUS NEU	SHARP RADIUS PRO	EXPERIMENTAL MASS	EXPERIMENTAL SHELL	EXPERIMENTAL DIFF
88	112	200	11.13	.77	11.90	10.36	19.15	1.61	1.40	-9.96	6.36	7.91	.13	7.07	.24	4	6.94	6.74			
88	113	201	10.66	.76	11.42	8.55	18.91	1.41	1.46	-8.09	8.00	8.02	.11	7.13	.24	4	6.96	6.75			
88	114	202	8.65	.56	9.21	10.28	18.83	1.50	1.68	-9.59	6.29	8.06		7.18	.24	4	6.97	6.75			
88	115	203	8.49	.11	8.60	8.69	18.96	1.62	2.11	-8.11	7.54	7.87		7.22	.24	4	6.99	6.76			
88	116	204	6.80	-.38	6.42	10.25	18.94	1.93	2.54	-9.69	5.62	7.69		7.26	.26	4	7.00	6.77			
88	117	205	6.95	-.91	6.04	8.45	18.70	2.04	2.97	-7.79	6.87	7.49		7.30	.26	4	7.02	6.77			
88	118	206	5.57	-1.46	4.11	10.01	18.45	2.35	3.39	-9.03	4.97	7.31		7.33	.26	4	7.03	6.78	4.29	-1.28	.18
88	119	207	6.02	-2.05	3.97	8.21	18.22	2.46	3.82	-7.12	6.21	7.11		7.35	.26	4	7.05	6.79	3.89	-2.13	-.08
88	120	208	4.95	-2.67	2.28	9.76	17.98	2.77	4.24	-8.36	4.32	6.93		7.37	.26	4	7.06	6.79	2.03	-2.92	-.25
88	121	209	5.69	-3.32	2.37	7.98	17.74	2.88	4.66	-6.47	5.57	6.73		7.37	.26	4	7.08	6.80	1.96	-3.73	-.41
88	122	210	4.91	-4.00	.91	9.53	17.51	3.18	5.07	-7.71	3.69	6.55		7.37	.26	4	7.09	6.80	.50	-4.41	-.41
88	123	211	5.94	-4.72	1.22	7.76	17.29	3.29	5.49	-5.83	4.93	6.34		7.36	.26	4	7.11	6.81	.71	-5.23	-.51
88	124	212	5.45	-5.46	-.01	9.30	17.06	3.59	5.90	-7.06	3.06	6.16		7.34	.26	4	7.12	6.82	-.30	-5.75	-.29
88	125	213	6.75	-6.23	.52	7.54	16.84	3.70	6.31	-5.19	4.31	5.96		7.32	.26	4	7.14	6.82	.17	-6.58	-.35
88	126	214	6.54	-7.03	-.49	9.08	16.62	4.00	6.72	-6.43	.71	5.77		7.29	.26	4	7.15	6.83	-.03	-6.57	.46
88	127	215	8.12	-6.14	1.98	5.60	14.68	4.10	7.14	-2.84	1.96	7.30		7.25	.26	4	7.17	6.84	2.55	-5.57	.57
88	128	216	8.19	-5.28	2.91	7.14	12.74	4.40	7.55	-4.08	.12	8.83		7.20	.26	4	7.18	6.84	3.26	-4.93	.35
88	129	217	10.02	-4.46	5.56	5.42	12.56	4.52	7.97	-2.24	1.36	8.60		7.15	.26	4	7.20	6.85	5.89	-4.13	.33
88	130	218	10.36	-3.68	6.68	6.95	12.37	4.81	8.37	-3.48	-.47	8.38		7.09	.26	4	7.21	6.85	6.66	-3.70	-.02
88	131	219	12.46	-2.94	9.52	5.23	12.19	4.92	8.77	-1.65	.78	8.15		7.02	.24	4	7.23	6.86	9.39	-3.07	-.13
88	132	220	13.06	-2.23	10.83	6.76	12.00	5.21	9.17	-2.88	-1.04	7.93		6.96	.24	4	7.24	6.87	10.28	-2.78	-.55
88	133	221	15.40	-1.57	13.83	5.06	11.83	5.32	9.59	-1.07	.19	7.69		6.89	.24	4	7.25	6.87	12.97	-2.43	-.86
88	134	222	16.26	-.93	15.33	6.58	11.64	5.60	9.97	-2.29	-1.60	7.48		6.82	.24	4	7.27	6.88	14.34	-1.92	-.99
88	135	223	18.85	-.34	18.51	4.89	11.47	5.71	10.37	-.49	-.37	7.25		6.74	.24	4	7.28	6.89	17.26	-1.59	-1.25
88	136	224	19.96	.22	20.18	6.41	11.29	5.99	10.76	-1.71	-2.16	7.03		6.65	.24	4	7.30	6.89	18.83	-1.13	-1.35
88	137	225	22.79	.64	23.43	4.81	11.22	6.20	11.26	.07	-.97	6.70	.09	6.56	.24	4	7.31	6.90	22.01	-.78	-1.42
88	138	226	24.14	.67	24.81	6.70	11.51	6.88	12.10	-1.12	-2.81	6.02	.13	6.47	.24	4	7.32	6.90	23.69	-.45	-1.12
88	139	227	27.21	.58	27.79	5.09	11.79	7.12	13.02	.71	-1.63	5.26	.14	6.37	.24	4	7.34	6.91	27.20	-.01	-.59
88	140	228	28.80	.46	29.26	6.60	11.69	7.45	13.65	-.47	-3.45	4.50	.15	6.26	.24	4	7.35	6.92	28.96	.16	-.30
88	141	229	32.09	.32	32.41	4.91	11.52	7.59	14.14	1.35	-2.27	3.75	.16	6.15	.24	4	7.37	6.92	32.70	.61	.29
88	142	230	33.91	.18	34.09	6.39	11.31	7.88	14.57	.16	-4.09	3.34	.16	6.04	.24	4	7.38	6.93	34.59	.68	.50
88	143	231	37.43	.05	37.48	4.69	11.07	7.98	14.97	1.97	-2.90	3.09	.16	5.92	.24	4	7.39	6.94			
88	144	232	39.48	-.07	39.41	6.15	10.83	8.26	15.36	.80	-4.69	2.90	.17	5.80	.24	4	7.41	6.94			
88	145	233	43.22	-.18	43.04	4.45	10.59	8.36	15.73	2.60	-3.50	2.74	.17	5.67	.24	4	7.42	6.95			
88	146	234	45.49	-.29	45.20	5.90	10.35	8.63	16.11	1.42	-5.29	2.59	.17	5.54	.24	4	7.43	6.95			
88	147	235	49.44	-.38	49.06	4.21	10.11	8.73	16.48	3.21	-4.11	2.44	.17	5.40	.24	4	7.45	6.96			
88	148	236	51.93	-.46	51.47	5.66	9.87	8.99	16.84	2.03	-5.88	2.31	.17	5.26	.24	4	7.46	6.97			
88	149	237	56.08	-.53	55.55	3.99	9.65	9.09	17.21	3.80	-4.71	2.16	.17	5.12	.22	4	7.48	6.97			
88	150	238	58.79	-.59	58.20	5.42	9.41	9.34	17.56	2.63	-6.46	2.04	.17	5.00	.22	4	7.49	6.98			
88	151	239	63.15	-.63	62.52	3.75	9.18	9.44	17.92	4.40	-5.28	1.91	.17	4.87	.22	4	7.50	6.99			
88	152	240	66.06	-.67	65.39	5.19	8.95	9.69	18.27	3.22	-7.04	1.78	.17	4.74	.22	4	7.52	6.99			
88	153	241	70.62	-.69	69.93	3.53	8.72	9.79	18.63	4.97	-5.86	1.65	.17	4.60	.22	4	7.53	7.00			
88	154	242	73.73	-.70	73.03	4.97	8.50	10.04	18.97	3.80	-7.60	1.52	.17	4.47	.22	4	7.54	7.01			
88	155	243	78.48	-.70	77.78	3.32	8.29	10.14	19.33	5.53	-6.43	1.38	.17	4.33	.22	4	7.56	7.01			
88	156	244	81.79	-.68	81.11	4.75	8.06	10.39	19.67	4.37	-8.16	1.26	.17	4.18	.22	4	7.57	7.02			
88	157	245	86.74	-.65	86.09	3.10	7.84	10.47	20.00	6.11	-6.97	1.13	.17	4.04	.22	4	7.58	7.02			
88	158	246	90.24	-.62	89.62	4.53	7.64	10.73	20.35	4.92	-8.71	1.00	.17	3.89	.22	4	7.59	7.03			
88	159	247	95.37	-.57	94.80	2.90	7.43	10.81	20.69	6.65	-7.53	.86	.17	3.74	.20	4	7.61	7.04			
88	160	248	99.07	-.51	98.56	4.31	7.21	11.05	21.01	5.48	-9.24	.74	.17	3.61	.20	4	7.62	7.04			
88	161	249	104.38	-.44	103.94	2.69	7.01	11.14	21.35	7.19	-8.06	.61	.17	3.48	.20	4	7.63	7.05			
88	162	250	108.26	-.35	107.91	4.11	6.79	11.38	21.66	6.03	-9.75	.49	.17	3.35	.20	4	7.65	7.06			
88	163	251	113.75	-.26	113.49	2.49	6.60	11.46	21.99	7.73	-8.58	.36	.17	3.22	.20	4	7.66	7.06			
88	164	252	117.81	-.16	117.65	3.91	6.40	11.70	22.31	6.55	-10.27	.23	.17	3.08	.20	4	7.67	7.07			
88	165	253	123.48	-.05	123.43	2.30	6.20	11.77	22.61	8.25	-9.07	.10	.16	2.94	.20	4	7.68	7.08			
88	166	254	127.72	.07	127.79	3.71	6.01	12.00	22.89	7.08	-10.73	-.01	.16	2.80	.18	4	7.70	7.08			
88	167	255	133.55	.19	133.74	2.12	5.83	12.07	23.12	8.75	-9.50	-.14	.15	2.68	.18	4	7.71	7.09			
88	168	256	137.97	.30	138.27	3.54	5.66	12.25	23.11	7.56	-10.94	-.25	.14	2.57	.18	4	7.72	7.09			
88	169	257	143.97	.39	144.36	1.98	5.52	12.14	22.91	9.18	-9.21	-.35	.13	2.45	.18	4	7.74	7.10			
88	170	258	148.55	.34	148.89	3.54	5.53	11.97	22.82	7.82	-10.44	-.33	.06	2.33	.18	4	7.75	7.11			
88	171	259	154.72	-.14	154.58	2.38	5.93	12.04	23.13	8.91	-9.23	-.53		2.20	.18	4	7.76	7.11			
88	172	260	159.47	-.65	158.82	3.83	6.22	12.27	23.45	7.27	-10.86	-.74		2.08	.18	4	7.77	7.12			
88	173	261	165.79	-1.18	164.61	2.29	6.12	12.36	23.76	8.90	-9.66	-.94		1.96	.18	4	7.79	7.13			
88	174	262	170.71	-1.74	168.97	3.71	6.00	12.58	24.07	7.71	-11.27	-1.14		1.84	.16	4	7.80	7.13			
88	175	263	177.19	-2.32	174.87	2.17	5.89	12.66	24.38	9.33	-10.07	-1.35		1.74	.16	4	7.81	7.14			
88	176	264	182.27	-2.93	179.34	3.60	5.78	12.89	24.69	8.14	-11.68	-1.55		1.64	.16	4	7.82	7.15			
88	177	265	188.90	-3.55	185.35	2.07	5.66	12.97	24.99	9.75	-10.48	-1.75		1.53	.16	4	7.84	7.15			
88	178	266	194.13	-4.21	189.92	3.49	5.56	13.19	25.30	8.55	-12.09	-1.95		1.43	.16	4	7.85	7.16			
88	179	267	200.91	-4.88	196.03	1.97	5.46	13.27	25.60	10.16	-10.89	-2.15		1.32	.16	4	7.86	7.17			
88	180	268	206.30	-5.58	200.72	3.38	5.35	13.49	25.90	8.97	-12.48	-2.35		1.23	.14	4	7.87	7.17			
88	181	269	213.23	-6.30	206.93	1.86	5.24	13.57	26.20	10.57	-11.29	-2.55		1.15	.14	4	7.88	7.18			
88	182	270	218.76	-7.05	211.71	3.28	5.15	13.79	26.51	9.37	-12.89	-2.76		1.07	.14	4	7.90	7.18			
88	183	271	225.83	-7.81	218.02	1.77	5.05	13.87	26.80	10.96	-11.69	-2.96		.98	.14	4	7.91	7.19			
88	184	272	231.52	-8.60	222.92	3.17	4.94	14.08	27.09	9.78	-14.96	-3.14		.90	.14	4	7.92	7.20			
88	186	274	244.56	-6.88	237.68	1.40	1.38	14.38	27.69	11.86	-15.33	-.18		.75	.12	4	7.94	7.21			
88	188	276	257.88	-5.28	252.60	1.32	1.22	14.67	28.29	12.24	-15.70	-.62		.62	.12	4	7.97	7.22			
88	190	278	271.47	-3.79	267.68	1.24	1.07	14.97	28.87	12.62	-16.07	-1.05		2.13	.19	ALP	7.99	7.24			
88	192	280	285.34	-2.42	282.92	1.15	.90	15.25	29.44	13.00	-16.42	-1.48		1.45	.19	ALP	8.02	7.25			
88	194	282	299.46	-1.16	298.30	1.08	.76	15.54	30.02	13.36	-16.78	-1.91		.83	.20	ALP	8.04	7.26			
88	196	284	313.84	-.01	313.83	1.00	.61	15.82	30.58	13.73	-17.13	-2.33		.26	.22	ALP	8.06	7.27			
88	197	285	321.84	-.03	321.81	.09	1.09	16.43	31.42	15.09	-15.85	-3.10	.17	.03	.25	ALP	8.07	7.28			
88	198	286	328.48	-.28	328.20	1.69	1.77	16.76	32.45	13.95	-17.40	-4.06	.18	-.15	.27	ALP	8.09	7.29			
88	199	287	336.60	-.53	336.07	.19	1.88	16.82	32.80	15.51	-16.26	-5.00	.19	-.31	.29	ALP	8.10	7.29			
88	200	288	343.36	-.77	342.59	1.54	1.75	17.03	33.07	14.36	-17.82	-5.90	.19	-.46	.29	ALP	8.11	7.30			
88	201	289	351.60	-.99	350.61	.05	1.60	17.09	33.33	15.92	-16.67	-6.10	.19	-.60	.30	ALP	8.12	7.31			
88	202	290	358.48	-1.20	357.28	1.40	1.46	17.30	33.60	14.78	-18.22	-6.23	.19	-.73	.30	ALP	8.13	7.31			
88	204	292	373.85	-1.59	372.26	1.25	1.17	17.55	34.12	15.20	-18.61	-6.47	.19	-.99	.30	ALP	8.16	7.33			
88	206	294	389.44	-1.94	387.50	1.12	.90	17.81	34.65	15.59	-19.01	-6.72	.19	-1.23	.30	ALP	8.18	7.34			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP NEU	RADIUS PRO	EXPERIMENTAL MASS	SHELL	DIFF
88	208	296	405.27	-2.24	403.03	.97	.62	18.06	35.15	16.00	-19.39	-6.96	.19	-1.46	.31	ALP	8.20	7.35			
88	210	298	421.32	-2.50	418.82	.84	.35	18.32	35.66	16.39	-19.78	-7.21	.19	-1.68	.30	ALP	8.22	7.37			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP NEU	RADIUS PRO	EXP MASS	EXP SHELL	DIFF
89	100	189	50.81	-.08	50.73	12.71	24.10	-2.90	-3.66	-13.80	12.75	8.80	.18	4.95	.22	4	6.76	6.69			
89	101	190	47.91	-.09	47.82	10.98	23.69	-2.55	-3.19	-11.74	13.95	8.72	.18	5.09	.22	4	6.77	6.69			
89	102	191	43.68	-.08	43.60	12.30	23.27	-2.43	-2.74	-12.94	11.89	8.68	.18	5.22	.22	4	6.79	6.70			
89	103	192	41.16	-.06	41.10	10.57	22.87	-2.10	-2.29	-10.88	13.10	8.62	.18	5.34	.22	4	6.81	6.71			
89	104	193	37.30	-.03	37.27	11.90	22.47	-1.98	-1.84	-12.09	11.05	8.57	.18	5.46	.22	4	6.82	6.71			
89	105	194	35.15	.02	35.17	10.18	22.07	-1.66	-1.40	-10.04	12.27	8.51	.17	5.57	.22	4	6.84	6.72			
89	106	195	31.65	.08	31.73	11.51	21.69	-1.53	-.97	-11.26	10.24	8.45	.17	5.67	.24	4	6.85	6.73			
89	107	196	29.85	.15	30.00	9.80	21.31	-1.21	-.53	-9.23	11.45	8.39	.17	5.79	.24	4	6.87	6.73			
89	108	197	26.71	.23	26.94	11.13	20.93	-1.10	-.11	-10.45	9.44	8.33	.17	5.90	.24	4	6.89	6.74			
89	109	198	25.25	.32	25.57	9.44	20.57	-.79	.30	-8.45	10.66	8.26	.17	6.00	.24	4	6.90	6.74			
89	110	199	22.46	.42	22.88	10.77	20.21	-.69	.68	-9.66	8.70	8.21	.16	6.09	.24	4	6.92	6.75			
89	111	200	21.34	.52	21.86	9.09	19.86	-.39	1.03	-7.68	9.96	8.14	.16	6.17	.24	4	6.93	6.76			
89	112	201	18.88	.62	19.50	10.43	19.53	-.31	1.30	-8.92	8.08	8.09	.15	6.25	.24	4	6.95	6.76			
89	113	202	18.09	.71	18.80	8.78	19.21	-.09	1.32	-6.97	9.59	8.06	.14	6.32	.24	4	6.96	6.77			
89	114	203	15.96	.74	16.70	10.16	18.95	-.20	1.30	-8.28	8.10	8.06	.12	6.38	.24	4	6.98	6.77			
89	115	204	15.49	.62	16.11	8.66	18.83	-.23	1.39	-6.54	9.69	8.15	.06	6.43	.24	4	7.00	6.78			
89	116	205	13.68	.15	13.83	10.35	19.02	-.12	1.80	-8.28	7.79	7.98		6.48	.24	4	7.01	6.79			
89	117	206	13.51	-.37	13.14	8.77	19.11	.20	2.23	-6.77	9.03	7.79		6.52	.24	4	7.03	6.79			
89	118	207	12.02	-.93	11.09	10.12	18.89	.31	2.66	-8.04	7.12	7.61		6.55	.24	4	7.04	6.80			
89	119	208	12.16	-1.52	10.64	8.52	18.64	.62	3.08	-6.13	8.36	7.42		6.58	.24	4	7.06	6.81			
89	120	209	10.97	-2.13	8.84	9.88	18.40	.73	3.49	-7.37	6.47	7.24		6.59	.24	4	7.07	6.81	9.39	-1.58	.55
89	121	210	11.40	-2.79	8.61	8.29	18.18	1.04	3.93	-5.49	7.70	7.04		6.61	.24	4	7.09	6.82	8.95	-2.45	.34
89	122	211	10.51	-3.47	7.04	9.64	17.94	1.16	4.34	-6.73	5.82	6.86		6.61	.24	4	7.10	6.82	7.46	-3.05	.42
89	123	212	11.23	-4.18	7.05	8.07	17.71	1.46	4.75	-4.85	7.06	6.67		6.61	.24	4	7.12	6.83	7.29	-3.94	.24
89	124	213	10.63	-4.92	5.71	9.41	17.48	1.57	5.16	-6.08	5.19	6.49		6.60	.24	4	7.13	6.84	6.12	-4.51	.41
89	125	214	11.63	-5.69	5.94	7.85	17.26	1.87	5.57	-4.22	6.43	6.29		6.59	.24	4	7.15	6.84	6.25	-5.38	.31
89	126	215	11.32	-6.50	4.82	9.18	17.03	1.98	5.97	-5.45	2.84	6.11		6.57	.24	4	7.16	6.85	5.97	-5.35	1.15
89	127	216	12.59	-5.60	6.99	5.91	15.09	2.28	6.39	-1.88	4.08	7.64		6.54	.24	4	7.17	6.85	8.03	-4.56	1.04
89	128	217	12.55	-4.75	7.80	7.26	13.16	2.40	6.80	-3.12	2.24	9.16		6.51	.24	4	7.19	6.86	8.67	-3.88	.87
89	129	218	14.09	-3.93	10.16	5.72	12.97	2.70	7.21	-1.28	3.48	8.94		6.47	.24	4	7.20	6.87	10.75	-3.34	.59
89	130	219	14.32	-3.16	11.16	7.07	12.79	2.81	7.62	-2.52	1.64	8.71		6.42	.24	4	7.22	6.87	11.58	-2.74	.42
89	131	220	16.12	-2.42	13.70	5.54	12.60	3.11	8.03	-.70	2.88	8.49		6.37	.24	4	7.23	6.88	13.75	-2.37	.05
89	132	221	16.62	-1.72	14.90	6.87	12.41	3.21	8.42	-1.93	1.06	8.27		6.32	.24	4	7.25	6.89	14.53	-2.09	-.37
89	133	222	18.67	-1.05	17.62	5.36	12.23	3.51	8.82	-.12	2.29	8.05		6.26	.24	4	7.26	6.89	16.57	-2.10	-1.05
89	134	223	19.43	-.43	19.00	6.69	12.04	3.61	9.22	-1.35	.49	7.83		6.19	.24	4	7.28	6.90	17.82	-1.61	-1.18
89	135	224	21.73	.16	21.89	5.18	11.87	3.91	9.62	.45	1.71	7.60		6.12	.24	4	7.29	6.90	20.23	-1.50	-1.66
89	136	225	22.73	.63	23.36	6.61	11.78	4.11	10.10	-.83	-.07	7.30	.09	6.04	.24	4	7.30	6.91	21.64	-1.09	-1.72
89	137	226	25.28	.65	25.93	5.50	12.11	4.79	10.99	.96	1.12	6.57	.13	5.96	.24	4	7.32	6.92	24.33	-.95	-1.60
89	138	227	26.53	.55	27.08	6.93	12.43	5.02	11.90	-.22	-.71	5.77	.14	5.87	.24	4	7.33	6.92	25.87	-.66	-1.21
89	139	228	29.32	.41	29.73	5.42	12.35	5.35	12.47	1.60	.48	4.96	.15	5.78	.24	4	7.35	6.93	28.91	-.41	-.82
89	140	229	30.80	.26	31.06	6.74	12.16	5.48	12.94	.41	-1.35	4.24	.16	5.68	.24	4	7.36	6.94	30.70	-.10	-.36
89	141	230	33.82	.11	33.93	5.21	11.94	5.77	13.36	2.23	-.17	3.88	.16	5.58	.24	4	7.37	6.94	33.79	-.03	-.14
89	142	231	35.54	-.03	35.51	6.50	11.70	5.88	13.75	1.05	-1.97	3.67	.17	5.47	.24	4	7.39	6.95	35.93	.39	.42
89	143	232	38.78	-.17	38.61	4.97	11.46	6.16	14.15	2.85	-.80	3.48	.17	5.36	.24	4	7.40	6.95	39.17	.39	.56
89	144	233	40.74	-.30	40.44	6.24	11.21	6.26	14.52	1.68	-2.59	3.33	.17	5.26	.22	4	7.41	6.96			
89	145	234	44.20	-.41	43.79	4.72	10.97	6.53	14.89	3.48	-1.41	3.19	.17	5.16	.22	4	7.43	6.97			
89	146	235	46.37	-.52	45.85	6.01	10.73	6.64	15.27	2.29	-3.21	3.05	.17	5.05	.22	4	7.44	6.97			
89	147	236	50.05	-.61	49.44	4.49	10.49	6.91	15.63	4.07	-2.02	2.91	.17	4.94	.22	4	7.46	6.98			
89	148	237	52.45	-.69	51.76	5.76	10.24	7.00	15.99	2.91	-3.79	2.79	.17	4.83	.22	4	7.47	6.99			
89	149	238	56.34	-.76	55.58	4.25	10.00	7.27	16.35	4.68	-2.62	2.66	.17	4.71	.22	4	7.48	6.99			
89	150	239	58.94	-.82	58.12	5.52	9.77	7.37	16.71	3.49	-4.39	2.53	.17	4.60	.22	4	7.50	7.00			
89	151	240	63.04	-.87	62.17	4.02	9.54	7.63	17.07	5.25	-3.22	2.39	.18	4.47	.22	4	7.51	7.01			
89	152	241	65.86	-.90	64.96	5.28	9.30	7.72	17.42	4.08	-4.97	2.28	.18	4.35	.22	4	7.52	7.01			
89	153	242	70.15	-.92	69.23	3.80	9.09	7.98	17.78	5.82	-3.80	2.14	.18	4.22	.22	4	7.54	7.02			
89	154	243	73.17	-.93	72.24	5.06	8.86	8.08	18.12	4.65	-5.55	2.02	.18	4.09	.22	4	7.55	7.02			
89	155	244	77.67	-.92	76.75	3.57	8.63	8.33	18.46	6.40	-4.36	1.90	.17	3.95	.22	4	7.56	7.03			
89	156	245	80.89	-.91	79.98	4.83	8.41	8.42	18.81	5.22	-6.10	1.77	.17	3.83	.20	4	7.57	7.04			
89	157	246	85.58	-.88	84.70	3.35	8.19	8.67	19.15	6.96	-4.93	1.64	.17	3.71	.20	4	7.59	7.04			
89	158	247	88.99	-.84	88.15	4.62	7.97	8.77	19.49	5.78	-6.66	1.52	.17	3.59	.20	4	7.60	7.05			
89	159	248	93.87	-.79	93.08	3.14	7.76	9.01	19.82	7.50	-5.48	1.39	.17	3.47	.20	4	7.61	7.06			
89	160	249	97.48	-.73	96.75	4.40	7.54	9.10	20.16	6.33	-7.19	1.26	.17	3.34	.20	4	7.63	7.06			
89	161	250	102.54	-.65	101.89	2.93	7.33	9.35	20.48	8.05	-6.02	1.14	.17	3.22	.20	4	7.64	7.07			
89	162	251	106.33	-.57	105.76	4.19	7.13	9.44	20.82	6.87	-7.73	1.01	.17	3.09	.20	4	7.65	7.07			
89	163	252	111.57	-.47	111.10	2.74	6.93	9.68	21.14	8.58	-6.56	.88	.17	2.96	.20	4	7.67	7.08			
89	164	253	115.55	-.37	115.18	3.99	6.72	9.76	21.46	7.41	-8.25	.75	.17	2.83	.18	4	7.68	7.09			
89	165	254	120.97	-.25	120.72	2.53	6.52	10.00	21.78	9.10	-7.07	.63	.17	2.73	.18	4	7.69	7.09			
89	166	255	125.12	-.13	124.99	3.79	6.33	10.09	22.09	7.92	-8.75	.50	.16	2.61	.18	4	7.70	7.10			
89	167	256	130.71	0.	130.71	2.35	6.14	10.32	22.39	9.60	-7.56	.37	.16	2.50	.18	4	7.72	7.11			
89	168	257	135.04	.13	135.17	3.61	5.96	10.39	22.64	8.42	-9.19	.24	.15	2.39	.18	4	7.73	7.11			
89	169	258	140.80	.26	141.06	2.18	5.79	10.59	22.73	10.07	-7.83	.12	.15	2.27	.18	4	7.74	7.12			
89	170	259	145.31	.37	145.68	3.46	5.64	10.51	22.47	8.87	-8.90	.02	.13	2.15	.18	4	7.75	7.13			
89	171	260	151.23	.32	151.55	2.20	5.66	10.33	22.36	10.33	-7.28	-.09	.05	2.03	.18	4	7.77	7.13			
89	172	261	155.90	-.19	155.71	3.91	6.11	10.40	22.68	8.53	-8.90	-.29		1.92	.16	4	7.78	7.14			
89	173	262	161.99	-.72	161.27	2.52	6.42	10.64	22.99	9.78	-7.70	-.49		1.82	.16	4	7.79	7.14			
89	174	263	166.82	-1.28	165.54	3.80	6.31	10.72	23.31	8.58	-9.33	-.69		1.72	.16	4	7.80	7.15			
89	175	264	173.07	-1.86	171.21	2.41	6.20	10.95	23.61	10.20	-8.13	-.89		1.62	.16	4	7.82	7.16			
89	176	265	178.07	-2.47	175.60	3.67	6.09	11.03	23.92	9.01	-9.74	-1.09		1.52	.16	4	7.83	7.16			
89	177	266	184.46	-3.10	181.36	2.31	5.99	11.27	24.24	10.60	-8.56	-1.31		1.42	.16	4	7.84	7.17			
89	178	267	189.62	-3.75	185.87	3.57	5.87	11.34	24.54	9.42	-10.16	-1.50		1.32	.16	4	7.85	7.18			
89	179	268	196.17	-4.42	191.75	2.20	5.76	11.57	24.84	11.02	-8.97	-1.70		1.24	.14	4	7.87	7.18			
89	180	269	201.48	-5.12	196.36	3.46	5.65	11.65	25.14	9.83	-10.56	-1.89		1.16	.14	4	7.88	7.19			
89	181	270	208.18	-5.84	202.34	2.09	5.55	11.88	25.44	11.42	-9.38	-2.10		1.08	.14	4	7.89	7.20			
89	182	271	213.64	-6.59	207.05	3.36	5.45	11.95	25.75	10.23	-10.97	-2.30		1.00	.14	4	7.90	7.20			

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE			SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF	I	NEU	PRO	MASS	SHELL	DIFF
89	183	272	220.49	-7.35	213.14	1.99	5.34	12.17	26.04	11.82	-9.78	-2.49		.91	.14	4	7.91	7.21			
89	184	273	226.10	-8.14	217.96	3.25	5.24	12.25	26.33	10.64	-13.05	-2.68		.84	.12	4	7.93	7.21			
89	185	274	233.09	-7.27	225.82	.21	3.46	12.47	26.64	13.89	-11.86	-1.20		.77	.12	4	7.94	7.22			
89	186	275	238.84	-6.42	232.42	1.48	1.69	12.55	26.93	12.71	-13.43	.28		.71	.12	4	7.95	7.23			
89	187	276	245.97	-5.61	240.36	.13	1.61	12.78	27.23	14.27	-12.24	.06		.65	.12	4	7.96	7.23			
89	188	277	251.87	-4.83	247.04	1.39	1.52	12.85	27.53	13.09	-13.80	-.16		.58	.12	4	7.97	7.24			
89	189	278	259.13	-4.07	255.06	.06	1.44	13.08	27.82	14.65	-12.62	-.38		.52	.12	4	7.99	7.25			
89	190	279	265.17	-3.35	261.82	1.31	1.36	13.15	28.12	13.46	-14.18	-.59		1.92	.19	ALP	8.00	7.25			
89	192	281	278.75	-1.98	276.77	1.23	1.20	13.44	28.69	13.84	-14.53	-1.01		1.25	.19	ALP	8.02	7.27			
89	194	283	292.59	-.73	291.86	1.15	1.05	13.73	29.26	14.20	-14.90	-1.44		.62	.20	ALP	8.05	7.28			
89	196	285	306.69	.03	306.72	1.45	1.28	14.39	30.21	14.32	-15.09	-2.25	.16	.09	.25	ALP	8.07	7.29			
89	197	286	314.48	-.23	314.25	.54	2.00	14.85	31.28	15.88	-13.94	-3.25	.18	-.10	.27	ALP	8.08	7.30			
89	198	287	321.05	-.48	320.57	1.75	2.30	14.91	31.67	14.74	-15.49	-4.21	.18	-.26	.29	ALP	8.09	7.30			
89	199	288	328.96	-.73	328.23	.40	2.16	15.12	31.95	16.29	-14.36	-5.15	.18	-.41	.29	ALP	8.10	7.31			
89	200	289	335.65	-.96	334.69	1.61	2.02	15.19	32.22	15.15	-15.92	-5.40	.19	-.55	.30	ALP	8.12	7.32			
89	201	290	343.68	-1.18	342.50	.27	1.87	15.40	32.49	16.70	-14.78	-5.53	.19	-.69	.30	ALP	8.13	7.32			
89	202	291	350.51	-1.40	349.11	1.46	1.72	15.46	32.75	15.57	-16.33	-5.65	.19	-.82	.30	ALP	8.14	7.33			
89	203	292	358.66	-1.59	357.07	.12	1.57	15.66	33.01	17.12	-15.18	-5.77	.19	-.94	.31	ALP	8.15	7.34			
89	204	293	365.60	-1.78	363.82	1.32	1.43	15.73	33.28	15.98	-16.73	-5.89	.19	-1.07	.31	ALP	8.16	7.34			
89	206	295	380.93	-2.13	378.80	1.17	1.16	15.99	33.80	16.38	-17.13	-6.14	.19	-1.30	.31	ALP	8.18	7.36			
89	208	297	396.49	-2.43	394.06	1.04	.89	16.25	34.32	16.77	-17.53	-6.39	.19	-1.53	.31	ALP	8.21	7.37			
89	210	299	412.28	-2.68	409.60	.90	.61	16.51	34.83	17.17	-17.91	-6.63	.19	-1.74	.31	ALP	8.23	7.38			
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90	94	184	87.38	-0.	87.38	14.36	27.17	-2.94	-7.29	-18.80	14.40	9.47	.18	3.33	.20	4	6.66	6.67			
90	95	185	83.18	-.10	83.08	12.37	26.73	-2.81	-6.79	-16.68	15.60	9.36	.18	3.49	.20	4	6.68	6.68			
90	96	186	77.42	-.18	77.24	13.92	26.28	-2.46	-6.31	-17.87	13.49	9.30	.18	3.64	.20	4	6.70	6.68			
90	97	187	73.63	-.25	73.38	11.93	25.84	-2.34	-5.84	-15.76	14.70	9.24	.18	3.79	.20	4	6.71	6.69			
90	98	188	68.28	-.31	67.97	13.48	25.41	-2.00	-5.37	-16.96	12.60	9.20	.18	3.93	.20	4	6.73	6.70			
90	99	189	64.88	-.35	64.53	11.51	24.99	-1.87	-4.89	-14.88	13.80	9.14	.18	4.06	.20	4	6.75	6.70			
90	100	190	59.93	-.37	59.56	13.05	24.56	-1.54	-4.44	-16.07	11.73	9.11	.18	4.19	.20	4	6.76	6.71			
90	101	191	56.91	-.38	56.53	11.10	24.15	-1.42	-3.97	-14.00	12.93	9.05	.18	4.32	.22	4	6.78	6.72			
90	102	192	52.35	-.37	51.98	12.63	23.72	-1.09	-3.53	-15.19	10.88	9.01	.18	4.46	.22	4	6.80	6.72			
90	103	193	49.71	-.35	49.36	10.69	23.32	-.97	-3.07	-13.14	12.09	8.96	.18	4.60	.22	4	6.81	6.73			
90	104	194	45.52	-.31	45.21	12.22	22.92	-.65	-2.63	-14.33	10.05	8.91	.18	4.72	.22	4	6.83	6.73			
90	105	195	43.25	-.26	42.99	10.30	22.51	-.54	-2.19	-12.29	11.26	8.86	.18	4.84	.22	4	6.85	6.74			
90	106	196	39.43	-.20	39.23	11.82	22.13	-.22	-1.75	-13.49	9.23	8.80	.18	4.95	.22	4	6.86	6.75			
90	107	197	37.50	-.12	37.38	9.92	21.75	-.09	-1.31	-11.47	10.44	8.73	.18	5.05	.22	4	6.88	6.75			
90	108	198	34.05	-.03	34.02	11.44	21.36	.21	-.89	-12.66	8.44	8.69	.18	5.15	.22	4	6.89	6.76			
90	109	199	32.47	.07	32.54	9.55	20.99	.32	-.46	-10.66	9.66	8.62	.17	5.24	.22	4	6.91	6.76			
90	110	200	29.36	.18	29.54	11.07	20.62	.63	-.06	-11.86	7.68	8.57	.17	5.32	.22	4	6.93	6.77			
90	111	201	28.12	.30	28.42	9.19	20.26	.73	.34	-9.87	8.91	8.50	.17	5.40	.22	4	6.94	6.78			
90	112	202	25.35	.43	25.78	10.71	19.91	1.02	.70	-11.07	6.98	8.45	.16	5.47	.22	4	6.96	6.78			
90	113	203	24.43	.55	24.98	8.87	19.58	1.11	1.02	-9.12	8.27	8.37	.15	5.53	.22	4	6.97	6.79			
90	114	204	22.00	.65	22.65	10.40	19.27	1.34	1.14	-10.36	6.54	8.32	.14	5.59	.22	4	6.99	6.79			
90	115	205	21.40	.71	22.11	8.61	19.01	1.29	1.07	-8.49	8.28	8.26	.12	5.64	.22	4	7.00	6.80			
90	116	206	19.29	.62	19.91	10.28	18.88	1.22	1.09	-9.90	6.77	8.27	.07	5.68	.22	4	7.02	6.81			
90	117	207	19.01	.12	19.13	8.85	19.13	1.30	1.49	-8.52	8.04	8.11		5.72	.24	4	7.03	6.81			
90	118	208	17.21	-.44	16.77	10.42	19.28	1.61	1.92	-10.17	6.13	7.92		5.77	.24	4	7.05	6.82			
90	119	209	17.23	-1.02	16.21	8.64	19.06	1.72	2.34	-8.27	7.37	7.74		5.80	.24	4	7.06	6.82			
90	120	210	15.74	-1.64	14.10	10.18	18.82	2.03	2.76	-9.50	5.48	7.56		5.83	.24	4	7.08	6.83			
90	121	211	16.06	-2.29	13.77	8.40	18.58	2.14	3.18	-7.61	6.72	7.37		5.85	.24	4	7.09	6.84			
90	122	212	14.87	-2.97	11.90	9.94	18.34	2.44	3.59	-8.85	4.85	7.20		5.86	.24	4	7.11	6.84			
90	123	213	15.48	-3.68	11.80	8.17	18.11	2.55	4.00	-6.96	6.09	7.01		5.87	.24	4	7.12	6.85	12.22	-3.26	.42
90	124	214	14.58	-4.43	10.15	9.71	17.89	2.85	4.42	-8.21	4.21	6.82		5.87	.24	4	7.14	6.86	10.75	-3.83	.60
90	125	215	15.47	-5.20	10.27	7.96	17.67	2.95	4.83	-6.34	5.45	6.63		5.86	.24	4	7.15	6.86	10.80	-4.67	.53
90	126	216	14.86	-6.00	8.86	9.48	17.44	3.25	5.23	-7.57	1.87	6.45		5.85	.24	4	7.17	6.87	10.20	-4.66	1.34
90	127	217	16.03	-5.11	10.92	6.02	15.50	3.36	5.64	-3.99	3.12	7.98		5.83	.24	4	7.18	6.87	12.02	-4.01	1.10
90	128	218	15.70	-4.26	11.44	7.55	13.57	3.65	6.05	-5.22	1.28	9.50		5.81	.24	4	7.20	6.88	12.30	-3.40	.86
90	129	219	17.13	-3.45	13.68	5.83	13.38	3.77	6.46	-3.39	2.51	9.27		5.77	.24	4	7.21	6.89	14.37	-2.76	.69
90	130	220	17.08	-2.68	14.40	7.35	13.18	4.05	6.86	-4.61	.69	9.07		5.74	.24	4	7.23	6.89	14.68	-2.40	.28
90	131	221	18.77	-1.94	16.83	5.64	13.00	4.17	7.27	-2.79	1.93	8.84		5.70	.24	4	7.24	6.90	16.94	-1.83	.11
90	132	222	18.98	-1.24	17.74	7.16	12.80	4.45	7.66	-4.01	.12	8.63		5.65	.24	4	7.25	6.91	17.21	-1.77	-.53
90	133	223	20.93	-.58	20.35	5.46	12.62	4.56	8.07	-2.20	1.35	8.41		5.60	.24	4	7.27	6.91	19.27	-1.66	-1.08
90	134	224	21.40	.04	21.44	6.98	12.44	4.85	8.46	-3.43	-.45	8.19		5.54	.22	4	7.28	6.92	20.01	-1.39	-1.43
90	135	225	23.60	.58	24.18	5.33	12.31	5.00	8.91	-1.68	.82	7.92	.07	5.48	.22	4	7.30	6.92	22.32	-1.28	-1.86
90	136	226	24.33	.64	24.97	7.29	12.61	5.68	9.78	-2.97	-.96	7.22	.13	5.42	.22	4	7.31	6.93	23.21	-1.12	-1.76
90	137	227	26.77	.53	27.30	5.73	13.03	5.92	10.71	-1.16	.22	6.36	.14	5.36	.22	4	7.33	6.94	25.83	-.94	-1.47
90	138	228	27.74	.38	28.12	7.25	12.99	6.25	11.27	-2.34	-1.61	5.52	.15	5.29	.22	4	7.34	6.94	26.77	-.97	-1.35
90	139	229	30.43	.22	30.65	5.55	12.80	6.36	11.72	-.51	-.41	4.79	.16	5.22	.22	4	7.35	6.95	29.60	-.83	-1.05
90	140	230	31.64	.06	31.70	7.02	12.57	6.66	12.13	-1.68	-2.23	4.46	.16	5.15	.22	4	7.37	6.95	30.89	-.75	-.81
90	141	231	34.56	-.10	34.46	5.31	12.33	6.76	12.53	.13	-1.05	4.25	.17	5.07	.22	4	7.38	6.96	33.83	-.73	-.63
90	142	232	36.01	-.25	35.76	6.77	12.08	7.04	12.92	-1.04	-2.85	4.08	.17	4.98	.22	4	7.39	6.97	35.47	-.54	-.29
90	143	233	39.15	-.39	38.76	5.07	11.84	7.14	13.30	.76	-1.68	3.92	.17	4.89	.22	4	7.41	6.97	38.75	-.40	-.01
90	144	234	40.83	-.52	40.31	6.52	11.59	7.42	13.68	-.42	-3.47	3.79	.17	4.80	.22	4	7.42	6.98	40.64	-.19	.33
90	145	235	44.20	-.64	43.56	4.82	11.34	7.51	14.05	1.38	-2.29	3.65	.17	4.71	.22	4	7.44	6.99			
90	146	236	46.11	-.74	45.37	6.27	11.09	7.78	14.41	.21	-4.07	3.54	.18	4.61	.22	4	7.45	6.99			
90	147	237	49.69	-.84	48.85	4.58	10.86	7.87	14.78	1.98	-2.90	3.39	.17	4.50	.22	4	7.46	7.00			
90	148	238	51.82	-.92	50.90	6.02	10.61	8.14	15.14	.81	-4.67	3.28	.18	4.40	.22	4	7.48	7.00			
90	149	239	55.62	-.99	54.63	4.34	10.37	8.23	15.50	2.59	-3.49	3.15	.18	4.29	.22	4	7.49	7.01			
90	150	240	57.96	-1.04	56.92	5.79	10.13	8.49	15.85	1.42	-5.25	3.03	.18	4.17	.22	4	7.50	7.02			
90	151	241	61.97	-1.09	60.88	4.11	9.89	8.58	16.21	3.18	-4.08	2.90	.18	4.06	.22	4	7.52	7.02			
90	152	242	64.53	-1.12	63.41	5.54	9.65	8.84	16.56	2.02	-5.82	2.79	.18	3.95	.20	4	7.53	7.03			
90	153	243	68.73	-1.14	67.59	3.89	9.43	8.93	16.91	3.77	-4.66	2.65	.18	3.85	.20	4	7.54	7.04			
90	154	244	71.50	-1.15	70.35	5.31	9.20	9.18	17.26	2.60	-6.39	2.54	.18	3.74	.20	4	7.56	7.04			
90	155	245	75.90	-1.14	74.76	3.66	8.97	9.27	17.60	4.34	-5.22	2.41	.18	3.63	.20	4	7.57	7.05			
90	156	246	78.87	-1.12	77.75	5.08	8.74	9.52	17.94	3.18	-6.95	2.30	.18	3.52	.20	4	7.58	7.05			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
90	157	247	83.46	-1.10	82.36	3.45	8.54	9.62	18.30	4.90	-5.79	2.15	.18	3.41	.20	4	7.59	7.06			
90	158	248	86.63	-1.05	85.58	4.87	8.31	9.87	18.62	3.75	-7.50	2.04	.18	3.30	.20	4	7.61	7.07			
90	159	249	91.42	-1.00	90.42	3.23	8.09	9.95	18.96	5.47	-6.33	1.91	.18	3.18	.20	4	7.62	7.07			
90	160	250	94.78	-.94	93.84	4.65	7.88	10.20	19.30	4.30	-8.04	1.79	.17	3.06	.20	4	7.63	7.08			
90	161	251	99.75	-.86	98.89	3.02	7.67	10.28	19.63	6.02	-6.87	1.66	.17	2.94	.18	4	7.65	7.09			
90	162	252	103.30	-.78	102.52	4.44	7.46	10.53	19.97	4.85	-8.58	1.53	.17	2.84	.18	4	7.66	7.09			
90	163	253	108.45	-.68	107.77	2.82	7.26	10.61	20.30	6.55	-7.41	1.40	.17	2.73	.18	4	7.67	7.10			
90	164	254	112.19	-.57	111.62	4.23	7.05	10.85	20.61	5.39	-9.09	1.29	.17	2.63	.18	4	7.69	7.11			
90	165	255	117.52	-.45	117.07	2.62	6.85	10.93	20.94	7.09	-7.92	1.15	.17	2.52	.18	4	7.70	7.11			
90	166	256	121.44	-.33	121.11	4.02	6.65	11.17	21.26	5.92	-9.60	1.03	.17	2.42	.18	4	7.71	7.12			
90	167	257	126.94	-.19	126.75	2.43	6.46	11.25	21.57	7.60	-8.43	.90	.17	2.31	.18	4	7.72	7.12			
90	168	258	131.04	-.05	130.99	3.83	6.26	11.47	21.86	6.44	-10.08	.78	.16	2.20	.18	4	7.74	7.13			
90	169	259	136.71	.10	136.81	2.25	6.09	11.55	22.13	8.10	-8.86	.64	.16	2.08	.18	4	7.75	7.14			
90	170	260	140.98	.24	141.22	3.66	5.91	11.74	22.25	6.92	-10.33	.52	.15	1.97	.16	4	7.76	7.14			
90	171	261	146.82	.35	147.17	2.12	5.79	11.66	21.99	8.53	-8.54	.38	.13	1.88	.16	4	7.77	7.15			
90	172	262	151.26	.23	151.49	3.76	5.88	11.51	21.91	7.09	-9.77	.17		1.78	.16	4	7.79	7.16			
90	173	263	157.27	-.30	156.97	2.60	6.35	11.59	22.22	8.11	-8.57	-.04		1.69	.16	4	7.80	7.16			
90	174	264	161.87	-.86	161.01	4.02	6.62	11.82	22.54	6.64	-10.19	-.24		1.59	.16	4	7.81	7.17			
90	175	265	168.04	-1.44	166.60	2.48	6.51	11.90	22.85	8.27	-9.00	-.44		1.50	.16	4	7.82	7.17			
90	176	266	172.80	-2.05	170.75	3.91	6.40	12.13	23.17	7.07	-10.62	-.65		1.40	.16	4	7.84	7.18			
90	177	267	179.13	-2.68	176.45	2.37	6.29	12.20	23.47	8.68	-9.42	-.84		1.31	.14	4	7.85	7.19			
90	178	268	184.05	-3.33	180.72	3.80	6.18	12.44	23.78	7.49	-11.03	-1.05		1.24	.14	4	7.86	7.19			
90	179	269	190.53	-4.00	186.53	2.27	6.06	12.51	24.08	9.10	-9.83	-1.24		1.16	.14	4	7.87	7.20			
90	180	270	195.61	-4.70	190.91	3.69	5.96	12.74	24.39	7.91	-11.43	-1.44		1.08	.14	4	7.88	7.21			
90	181	271	202.24	-5.42	196.82	2.17	5.85	12.81	24.68	9.51	-10.24	-1.63		1.00	.14	4	7.90	7.21			
90	182	272	207.48	-6.16	201.32	3.57	5.74	13.03	24.98	8.33	-11.82	-1.82		.92	.14	4	7.91	7.22			
90	183	273	214.25	-6.92	207.33	2.06	5.63	13.10	25.27	9.92	-10.63	-2.02		.85	.12	4	7.92	7.23			
90	184	274	219.64	-7.71	211.93	3.47	5.53	13.32	25.57	8.74	-13.89	-2.21		.79	.12	4	7.93	7.23			
90	185	275	226.55	-6.84	219.71	.29	3.76	13.40	25.88	11.99	-12.71	-.74		.72	.12	4	7.94	7.24			
90	186	276	232.09	-6.00	226.09	1.70	1.98	13.62	26.17	10.81	-14.27	.74		.66	.12	4	7.96	7.24			
90	187	277	239.15	-5.19	233.96	.20	1.89	13.69	26.46	12.38	-13.08	.53		.60	.12	4	7.97	7.25			
90	188	278	244.83	-4.41	240.42	1.61	1.81	13.91	26.76	11.20	-14.64	.31		.54	.12	4	7.98	7.26			
90	189	279	252.02	-3.66	248.36	.13	1.73	13.99	27.06	12.76	-13.46	.09		2.07	.19	ALP	7.99	7.26			
90	190	280	257.85	-2.94	254.91	1.52	1.65	14.20	27.35	11.59	-15.01	-.12		1.72	.19	ALP	8.00	7.27			
90	191	281	265.17	-2.25	262.92	.05	1.58	14.28	27.66	13.12	-13.84	-.35		1.38	.19	ALP	8.02	7.28			
90	192	282	271.14	-1.58	269.56	1.44	1.49	14.49	27.93	11.96	-15.38	-.55		1.05	.20	ALP	8.03	7.28			
90	194	284	284.70	-.33	284.37	1.36	1.33	14.78	28.51	12.33	-15.73	-.97		.43	.21	ALP	8.05	7.30			
90	195	285	292.29	.11	292.40	.04	1.40	14.99	28.94	13.72	-14.32	-1.33	.14	.17	.24	ALP	8.06	7.30			
90	196	286	298.52	-.15	298.37	2.10	2.14	15.64	30.04	12.40	-15.88	-2.35	.18	-.04	.27	ALP	8.07	7.31			
90	197	287	306.24	-.41	305.83	.62	2.71	15.71	30.56	13.97	-14.73	-3.35	.18	-.21	.28	ALP	8.09	7.31			
90	198	288	312.61	-.67	311.94	1.96	2.58	15.91	30.83	12.84	-16.29	-4.31	.18	-.36	.29	ALP	8.10	7.32			
90	199	289	320.45	-.91	319.54	.47	2.43	15.98	31.10	14.40	-15.15	-4.69	.19	-.51	.30	ALP	8.11	7.33			
90	200	290	326.94	-1.15	325.79	1.81	2.29	16.19	31.38	13.25	-16.71	-4.83	.19	-.64	.30	ALP	8.12	7.33			
90	201	291	334.91	-1.37	333.54	.32	2.14	16.25	31.65	14.81	-15.57	-4.95	.19	-.77	.30	ALP	8.13	7.34			
90	202	292	341.53	-1.58	339.95	1.66	1.99	16.45	31.91	13.68	-17.11	-5.07	.19	-.90	.31	ALP	8.14	7.35			
90	203	293	349.61	-1.77	347.84	.19	1.84	16.51	32.17	15.23	-15.98	-5.19	.19	-1.02	.31	ALP	8.16	7.35			
90	204	294	356.36	-1.96	354.40	1.51	1.69	16.71	32.43	14.10	-17.51	-5.31	.19	-1.14	.31	ALP	8.17	7.36			
90	205	295	364.56	-2.14	362.42	.04	1.56	16.77	32.70	15.63	-16.38	-5.44	.19	-1.26	.31	ALP	8.18	7.37			
90	206	296	371.42	-2.30	369.12	1.38	1.42	16.97	32.96	14.50	-17.91	-5.56	.19	-1.38	.31	ALP	8.19	7.37			
90	208	298	386.73	-2.60	384.13	1.23	1.14	17.22	33.48	14.91	-18.30	-5.80	.19	-1.60	.31	ALP	8.21	7.38			
90	210	300	402.26	-2.85	399.41	1.09	.86	17.48	33.99	15.31	-18.68	-6.04	.19	-1.81	.31	ALP	8.24	7.40			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
91	103	194	60.17	-.63	59.54	11.02	23.78	-2.89	-3.86	-12.14	14.33	9.29	.19	3.92	.20	4	6.82	6.75			
91	104	195	55.86	-.59	55.27	12.34	23.37	-2.77	-3.42	-13.34	12.28	9.25	.18	4.03	.20	4	6.84	6.75			
91	105	196	53.25	-.53	52.72	10.63	22.97	-2.44	-2.98	-11.30	13.49	9.20	.18	4.13	.20	4	6.85	6.76			
91	106	197	49.31	-.46	48.85	11.95	22.57	-2.32	-2.54	-12.49	11.46	9.15	.18	4.23	.20	4	6.87	6.77			
91	107	198	47.06	-.38	46.68	10.24	22.18	-2.00	-2.10	-10.48	12.66	9.09	.18	4.32	.20	4	6.89	6.77			
91	108	199	43.48	-.29	43.19	11.56	21.80	-1.89	-1.67	-11.68	10.65	9.04	.18	4.42	.22	4	6.90	6.78			
91	109	200	41.58	-.18	41.40	9.87	21.42	-1.57	-1.25	-9.67	11.86	8.98	.18	4.52	.22	4	6.92	6.78			
91	110	201	38.35	-.06	38.29	11.18	21.05	-1.46	-.83	-10.87	9.87	8.92	.17	4.61	.22	4	6.93	6.79			
91	111	202	36.79	.07	36.86	9.50	20.68	-1.15	-.42	-8.88	11.09	8.86	.17	4.69	.22	4	6.95	6.80			
91	112	203	33.90	.21	34.11	10.82	20.32	-1.04	-.02	-10.09	9.13	8.80	.17	4.77	.22	4	6.96	6.80			
91	113	204	32.67	.35	33.02	9.16	19.98	-.75	.35	-8.12	10.37	8.73	.16	4.84	.22	4	6.98	6.81			
91	114	205	30.11	.48	30.59	10.49	19.66	-.66	.70	-9.36	8.48	8.66	.15	4.91	.22	4	7.00	6.81			
91	115	206	29.20	.61	29.81	8.86	19.34	-.41	.88	-7.43	9.90	8.59	.14	4.96	.22	4	7.01	6.82			
91	116	207	26.97	.68	27.65	10.23	19.09	-.45	.76	-8.72	8.52	8.52	.12	5.02	.22	4	7.03	6.83			
91	117	208	26.38	.56	26.94	8.78	19.01	-.53	.78	-7.03	10.17	8.41	.05	5.06	.22	4	7.04	6.83			
91	118	209	24.47	.01	24.48	10.53	19.32	-.42	1.19	-8.85	8.27	8.22		5.10	.22	4	7.06	6.84			
91	119	210	24.18	-.57	23.61	8.94	19.47	-.11	1.61	-7.28	9.51	8.04		5.14	.22	4	7.07	6.84			
91	120	211	22.57	-1.19	21.38	10.30	19.24	.01	2.03	-8.52	7.61	7.86		5.16	.22	4	7.09	6.85			
91	121	212	22.59	-1.84	20.75	8.71	19.00	.31	2.44	-6.63	8.85	7.68		5.19	.22	4	7.10	6.86			
91	122	213	21.29	-2.52	18.77	10.05	18.76	.42	2.85	-7.86	6.98	7.51		5.20	.22	4	7.12	6.86			
91	123	214	21.59	-3.23	18.36	8.48	18.53	.72	3.27	-5.99	8.20	7.32		5.21	.22	4	7.13	6.87			
91	124	215	20.58	-3.97	16.61	9.82	18.30	.84	3.68	-7.22	6.34	7.14		5.22	.22	4	7.15	6.87			
91	125	216	21.17	-4.74	16.43	8.25	18.07	1.14	4.09	-5.36	7.56	6.95		5.22	.22	4	7.16	6.88			
91	126	217	20.45	-5.54	14.91	9.59	17.84	1.25	4.49	-6.59	3.99	6.77		5.22	.22	4	7.18	6.89			
91	127	218	21.32	-4.66	16.66	6.32	15.91	1.54	4.91	-3.03	5.22	8.30		5.21	.22	4	7.19	6.89			
91	128	219	20.88	-3.81	17.07	7.66	13.98	1.66	5.31	-4.26	3.39	9.82		5.19	.22	4	7.20	6.90			
91	129	220	22.02	-3.01	19.01	6.13	13.79	1.96	5.73	-2.43	4.61	9.60		5.17	.22	4	7.22	6.91			
91	130	221	21.86	-2.24	19.62	7.46	13.59	2.06	6.12	-3.66	2.79	9.39		5.15	.22	4	7.23	6.91			
91	131	222	23.26	-1.51	21.75	5.94	13.41	2.36	6.53	-1.84	4.01	9.17		5.12	.22	4	7.25	6.92	21.87	-1.39	.12
91	132	223	23.36	-.81	22.55	7.28	13.21	2.48	6.93	-3.07	2.20	8.96		5.08	.22	4	7.26	6.92	22.35	-1.01	-.20
91	133	224	25.02	-.15	24.87	5.76	13.03	2.77	7.33	-1.26	3.43	8.74		5.04	.22	4	7.28	6.93	23.80	-1.22	-1.07
91	134	225	25.39	.47	25.86	7.09	12.83	2.87	7.72	-2.48	1.67	8.53		5.00	.22	4	7.29	6.94	24.35	-1.06	-1.53
91	135	226	27.30	.63	27.93	6.00	13.08	3.54	8.54	-.87	2.96	7.88	.12	4.95	.22	4	7.30	6.94	25.98	-1.32	-1.95
91	136	227	27.92	.53	28.45	7.56	13.55	3.80	9.49	-2.09	1.15	7.03	.14	4.90	.22	4	7.32	6.95	26.83	-1.09	-1.62

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
91	137	228	30.09	.37	30.46	6.06	13.62	4.13	10.05	-.26	2.33	6.14	.15	4.84	.22	4	7.33	6.95	28.88	-1.21	-1.58
91	138	229	30.96	.20	31.16	7.37	13.44	4.25	10.50	-1.44	.51	5.37	.16	4.78	.22	4	7.35	6.96	29.90	-1.06	-1.26
91	139	230	33.36	.03	33.39	5.84	13.21	4.55	10.91	.38	1.69	5.03	.17	4.71	.22	4	7.36	6.97	32.19	-1.17	-1.20
91	140	231	34.47	-.14	34.33	7.13	12.97	4.66	11.31	-.80	-.13	4.82	.17	4.65	.22	4	7.37	6.97	33.44	-1.03	-.89
91	141	232	37.11	-.31	36.80	5.60	12.73	4.94	11.71	1.01	1.04	4.65	.17	4.57	.22	4	7.39	6.98	35.95	-1.16	-.85
91	142	233	38.46	-.46	38.00	6.88	12.47	5.05	12.09	-.16	-.76	4.51	.17	4.49	.22	4	7.40	6.99	37.51	-.95	-.49
91	143	234	41.33	-.60	40.73	5.35	12.22	5.32	12.46	1.64	.42	4.37	.17	4.41	.22	4	7.42	6.99	40.38	-.95	-.35
91	144	235	42.92	-.73	42.19	6.61	11.96	5.42	12.83	.47	-1.37	4.26	.18	4.33	.22	4	7.43	7.00	42.33	-.59	.14
91	145	236	46.01	-.85	45.16	5.10	11.71	5.69	13.20	2.25	-.21	4.12	.18	4.24	.22	4	7.44	7.00	45.56	-.45	.40
91	146	237	47.82	-.96	46.86	6.37	11.47	5.79	13.57	1.08	-1.99	4.00	.18	4.14	.22	4	7.46	7.01	47.71	-.11	.85
91	147	238	51.13	-1.05	50.08	4.86	11.22	6.06	13.94	2.85	-.82	3.87	.18	4.06	.20	4	7.47	7.02	51.30	.17	1.22
91	148	239	53.17	-1.13	52.04	6.12	10.97	6.15	14.29	1.69	-2.59	3.76	.18	3.97	.20	4	7.48	7.02			
91	149	240	56.70	-1.20	55.50	4.61	10.73	6.42	14.65	3.46	-1.42	3.64	.18	3.89	.20	4	7.50	7.03			
91	150	241	58.95	-1.25	57.70	5.87	10.48	6.51	15.00	2.29	-3.18	3.52	.18	3.80	.20	4	7.51	7.04			
91	151	242	62.69	-1.30	61.39	4.37	10.25	6.78	15.36	4.04	-2.02	3.39	.18	3.71	.20	4	7.52	7.04			
91	152	243	65.15	-1.33	63.82	5.64	10.02	6.87	15.71	2.87	-3.77	3.27	.18	3.61	.20	4	7.54	7.05			
91	153	244	69.10	-1.35	67.75	4.14	9.78	7.13	16.06	4.62	-2.60	3.15	.18	3.51	.20	4	7.55	7.05			
91	154	245	71.77	-1.35	70.42	5.40	9.55	7.22	16.40	3.46	-4.34	3.04	.18	3.41	.20	4	7.56	7.06			
91	155	246	75.91	-1.35	74.56	3.93	9.33	7.48	16.76	5.19	-3.18	2.90	.18	3.31	.20	4	7.58	7.07			
91	156	247	78.79	-1.33	77.46	5.18	9.10	7.57	17.10	4.03	-4.91	2.79	.18	3.21	.20	4	7.59	7.07			
91	157	248	83.13	-1.30	81.83	3.70	8.88	7.83	17.44	5.75	-3.75	2.66	.18	3.10	.20	4	7.60	7.08			
91	158	249	86.21	-1.26	84.95	4.95	8.66	7.91	17.78	4.59	-5.47	2.54	.18	2.99	.18	4	7.61	7.09			
91	159	250	90.74	-1.20	89.54	3.49	8.44	8.17	18.12	6.31	-4.30	2.42	.18	2.90	.18	4	7.63	7.09			
91	160	251	94.01	-1.14	92.87	4.74	8.22	8.26	18.46	5.14	-6.02	2.29	.18	2.81	.18	4	7.64	7.10			
91	161	252	98.73	-1.06	97.67	3.28	8.01	8.51	18.79	6.85	-4.85	2.17	.18	2.71	.18	4	7.65	7.10			
91	162	253	102.20	-.97	101.23	4.52	7.79	8.59	19.11	5.70	-6.54	2.06	.18	2.61	.18	4	7.67	7.11			
91	163	254	107.10	-.87	106.23	3.07	7.59	8.84	19.44	7.40	-5.39	1.92	.17	2.52	.18	4	7.68	7.12			
91	164	255	110.75	-.76	109.99	4.31	7.38	8.92	19.77	6.24	-7.08	1.80	.17	2.41	.18	4	7.69	7.12			
91	165	256	115.83	-.64	115.19	2.87	7.18	9.17	20.10	7.92	-5.92	1.67	.17	2.31	.18	4	7.70	7.13			
91	166	257	119.67	-.51	119.16	4.11	6.97	9.24	20.41	6.77	-7.59	1.56	.17	2.21	.18	4	7.72	7.14			
91	167	258	124.93	-.37	124.56	2.67	6.77	9.49	20.73	8.45	-6.43	1.42	.17	2.10	.18	4	7.73	7.14			
91	168	259	128.94	-.23	128.71	3.91	6.59	9.56	21.05	7.28	-8.10	1.29	.17	2.00	.16	4	7.74	7.15			
91	169	260	134.37	-.07	134.30	2.48	6.40	9.80	21.34	8.94	-6.92	1.16	.16	1.91	.16	4	7.75	7.15			
91	170	261	138.56	.09	138.65	3.72	6.21	9.86	21.60	7.78	-8.53	1.05	.16	1.82	.16	4	7.77	7.16			
91	171	262	144.16	.24	144.40	2.32	6.04	10.07	21.72	9.41	-7.09	.91	.15	1.73	.16	4	7.78	7.17			
91	172	263	148.52	.35	148.87	3.60	5.92	9.91	21.42	8.20	-8.09	.77	.12	1.64	.16	4	7.79	7.17			
91	173	264	154.28	.08	154.36	2.57	6.18	9.89	21.48	9.41	-6.65	.39		1.55	.16	4	7.80	7.18			
91	174	265	158.81	-.48	158.33	4.10	6.68	9.97	21.79	7.61	-8.26	.19		1.46	.16	4	7.82	7.19			
91	175	266	164.74	-1.06	163.68	2.72	6.83	10.20	22.10	9.12	-7.08	-.01		1.37	.14	4	7.83	7.19			
91	176	267	169.43	-1.66	167.77	3.98	6.71	10.28	22.41	7.95	-8.68	-.20		1.29	.14	4	7.84	7.20			
91	177	268	175.52	-2.29	173.23	2.61	6.60	10.51	22.72	9.55	-7.50	-.40		1.22	.14	4	7.85	7.20			
91	178	269	180.37	-2.94	177.43	3.87	6.48	10.59	23.02	8.37	-9.10	-.59		1.14	.14	4	7.87	7.21			
91	179	270	186.61	-3.61	183.00	2.50	6.37	10.82	23.33	9.96	-7.92	-.79		1.07	.14	4	7.88	7.22			
91	180	271	191.62	-4.31	187.31	3.76	6.26	10.89	23.63	8.78	-9.51	-.99		.99	.14	4	7.89	7.22			
91	181	272	198.01	-5.03	192.98	2.40	6.16	11.13	23.94	10.36	-8.34	-1.19		.91	.14	4	7.90	7.23			
91	182	273	203.18	-5.77	197.41	3.65	6.04	11.20	24.23	9.19	-9.91	-1.37		.85	.12	4	7.91	7.24			
91	183	274	209.72	-6.53	203.19	2.29	5.94	11.43	24.53	10.77	-8.74	-1.57		.79	.12	4	7.93	7.24			
91	184	275	215.04	-7.32	207.72	3.54	5.83	11.50	24.82	9.59	-11.99	-1.76		.73	.12	4	7.94	7.25			
91	185	276	221.73	-6.45	215.28	.51	4.05	11.72	25.12	12.84	-10.81	-.28		.67	.12	4	7.95	7.26			
91	186	277	227.19	-5.62	221.57	1.77	2.29	11.80	25.43	11.65	-12.38	1.18		.61	.12	4	7.96	7.26			
91	187	278	234.03	-4.81	229.22	.43	2.20	12.02	25.72	13.23	-11.19	.97		.55	.12	4	7.97	7.27			
91	188	279	239.64	-4.03	235.61	1.68	2.11	12.10	26.01	12.05	-12.75	.77		2.25	.19	ALP	7.99	7.27			
91	189	280	246.61	-3.29	243.32	.35	2.04	12.32	26.32	13.59	-11.59	.54		1.88	.19	ALP	8.00	7.28			
91	190	281	252.36	-2.56	249.80	1.60	1.95	12.40	26.60	12.43	-13.13	.33		1.53	.19	ALP	8.01	7.29			
91	191	282	259.47	-1.87	257.60	.27	1.87	12.62	26.90	13.97	-11.96	.12		1.19	.19	ALP	8.02	7.29			
91	192	283	265.37	-1.21	264.16	1.51	1.78	12.69	27.18	12.80	-13.50	-.09		.87	.20	ALP	8.03	7.30			
91	193	284	272.61	-.57	272.04	.19	1.70	12.91	27.47	14.34	-12.33	-.30		.55	.20	ALP	8.05	7.31			
91	194	285	278.64	.04	278.68	1.43	1.62	12.98	27.76	13.17	-13.72	-.51		.26	.22	ALP	8.06	7.31			
91	195	286	286.02	-.05	285.97	.78	2.21	13.72	28.71	14.34	-12.40	-1.39	.17	.03	.26	ALP	8.07	7.32			
91	196	287	292.18	-.32	291.86	2.18	2.96	13.81	29.44	13.20	-13.97	-2.42	.18	-.16	.28	ALP	8.08	7.32			
91	197	288	299.69	-.59	299.10	.83	3.01	14.01	29.73	14.76	-12.84	-3.43	.18	-.32	.29	ALP	8.09	7.33			
91	198	289	305.99	-.84	305.15	2.03	2.85	14.08	29.99	13.63	-14.39	-4.00	.18	-.46	.30	ALP	8.10	7.34			
91	199	290	313.62	-1.09	312.53	.68	2.71	14.29	30.28	15.17	-13.27	-4.14	.19	-.60	.30	ALP	8.12	7.34			
91	200	291	320.05	-1.32	318.73	1.87	2.56	14.35	30.54	14.05	-14.81	-4.26	.19	-.73	.30	ALP	8.13	7.35			
91	201	292	327.81	-1.54	326.27	.53	2.41	14.56	30.81	15.60	-13.68	-4.38	.19	-.86	.31	ALP	8.14	7.36			
91	202	293	334.36	-1.74	332.62	1.73	2.25	14.62	31.07	14.47	-15.22	-4.50	.19	-.99	.31	ALP	8.15	7.36			
91	203	294	342.24	-1.94	340.30	.39	2.11	14.83	31.34	16.01	-14.10	-4.63	.19	-1.11	.31	ALP	8.16	7.37			
91	204	295	348.92	-2.13	346.79	1.58	1.97	14.89	31.60	14.88	-15.63	-4.75	.19	-1.22	.31	ALP	8.17	7.38			
91	205	296	356.92	-2.30	354.62	.24	1.82	15.09	31.87	16.42	-14.50	-4.87	.19	-1.34	.31	ALP	8.18	7.38			
91	206	297	363.72	-2.47	361.25	1.43	1.68	15.16	32.13	15.29	-16.04	-4.99	.19	-1.45	.31	ALP	8.20	7.39			
91	207	298	371.83	-2.62	369.21	.11	1.55	15.36	32.40	16.81	-14.92	-5.12	.19	-1.56	.31	ALP	8.21	7.39			
91	208	299	378.76	-2.76	376.00	1.29	1.39	15.42	32.64	15.70	-16.43	-5.23	.19	-1.67	.31	ALP	8.22	7.40			
91	210	301	394.03	-3.01	391.02	1.15	1.12	15.68	33.16	16.10	-16.82	-5.47	.19	-1.88	.31	ALP	8.24	7.41			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
92	98	190	90.37	-.88	89.49	13.93	26.33	-2.79	-6.94	-18.19	13.86	9.83	.19	2.75	.18	4	6.75	6.74			
92	99	191	86.50	-.92	85.58	11.97	25.91	-2.67	-6.47	-16.12	15.05	9.78	.19	2.86	.18	4	6.76	6.74			
92	100	192	81.10	-.93	80.17	13.49	25.46	-2.34	-6.03	-17.29	13.00	9.77	.19	2.98	.18	4	6.78	6.75			
92	101	193	77.62	-.94	76.68	11.55	25.05	-2.22	-5.56	-15.24	14.18	9.72	.19	3.08	.18	4	6.80	6.76			
92	102	194	72.60	-.92	71.68	13.08	24.62	-1.89	-5.12	-16.42	12.14	9.69	.19	3.19	.18	4	6.81	6.76			
92	103	195	69.50	-.90	68.60	11.15	24.22	-1.77	-4.66	-14.38	13.32	9.64	.19	3.30	.20	4	6.83	6.77			
92	104	196	64.87	-.85	64.02	12.66	23.80	-1.45	-4.23	-15.56	11.30	9.61	.19	3.41	.20	4	6.85	6.77			
92	105	197	62.14	-.80	61.34	10.75	23.41	-1.33	-3.78	-13.53	12.49	9.55	.19	3.52	.20	4	6.86	6.78			
92	106	198	57.88	-.72	57.16	12.26	23.00	-1.02	-3.35	-14.71	10.48	9.52	.19	3.62	.20	4	6.88	6.79			
92	107	199	55.51	-.64	54.87	10.36	22.62	-.90	-2.91	-12.70	11.67	9.46	.19	3.72	.20	4	6.89	6.79			
92	108	200	51.61	-.54	51.07	11.87	22.23	-.59	-2.47	-13.89	9.67	9.41	.18	3.81	.20	4	6.91	6.80			
92	109	201	49.59	-.43	49.16	9.98	21.85	-.47	-2.04	-11.89	10.87	9.35	.18	3.90	.20	4	6.93	6.80			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
92	110	202	46.04	-.30	45.74	11.49	21.48	-.16	-1.62	-13.08	8.89	9.30	.18	3.97	.20	4	6.94	6.81			
92	111	203	44.36	-.16	44.20	9.62	21.10	-.05	-1.20	-11.08	10.10	9.24	.18	4.05	.20	4	6.96	6.82			
92	112	204	41.16	-.02	41.14	11.13	20.75	.25	-.79	-12.28	8.13	9.17	.17	4.12	.20	4	6.97	6.82			
92	113	205	39.81	.13	39.94	9.27	20.40	.36	-.38	-10.32	9.34	9.10	.17	4.18	.20	4	6.99	6.83			
92	114	206	36.95	.29	37.24	10.78	20.05	.64	-.01	-11.51	7.43	9.04	.16	4.24	.20	4	7.00	6.83			
92	115	207	35.92	.44	36.36	8.95	19.73	.73	.33	-9.58	8.71	8.96	.16	4.29	.20	4	7.02	6.84			
92	116	208	33.39	.58	33.97	10.47	19.41	.97	.51	-10.80	7.03	8.90	.14	4.34	.20	4	7.03	6.85			
92	117	209	32.68	.65	33.33	8.71	19.18	.90	.37	-8.96	8.85	8.79	.12	4.39	.22	4	7.05	6.85			
92	118	210	30.46	.42	30.88	10.51	19.23	.89	.47	-10.53	7.28	8.55		4.43	.22	4	7.06	6.86			
92	119	211	30.06	-.16	29.90	9.06	19.57	1.00	.89	-9.22	8.52	8.35		4.48	.22	4	7.08	6.86			
92	120	212	28.16	-.78	27.38	10.59	19.65	1.29	1.30	-10.63	6.63	8.18		4.51	.22	4	7.09	6.87			
92	121	213	28.06	-1.43	26.63	8.82	19.41	1.40	1.72	-8.74	7.87	8.00		4.54	.22	4	7.11	6.88			
92	122	214	26.46	-2.11	24.35	10.35	19.17	1.70	2.13	-9.97	5.99	7.83		4.56	.22	4	7.12	6.88			
92	123	215	26.65	-2.82	23.83	8.59	18.94	1.82	2.54	-8.10	7.22	7.64		4.58	.22	4	7.14	6.89			
92	124	216	25.35	-3.56	21.79	10.11	18.70	2.11	2.95	-9.32	5.36	7.47		4.60	.22	4	7.15	6.89			
92	125	217	25.83	-4.33	21.50	8.36	18.47	2.22	3.35	-7.46	6.59	7.28		4.60	.22	4	7.17	6.90			
92	126	218	24.82	-5.13	19.69	9.88	18.24	2.51	3.75	-8.68	3.03	7.11		4.61	.22	4	7.18	6.91			
92	127	219	25.57	-4.25	21.32	6.44	16.32	2.63	4.18	-5.14	4.25	8.62		4.60	.22	4	7.20	6.91			
92	128	220	24.85	-3.40	21.45	7.95	14.38	2.91	4.57	-6.34	2.44	10.16		4.59	.22	4	7.21	6.92			
92	129	221	25.88	-2.60	23.28	6.24	14.19	3.02	4.98	-4.52	3.66	9.94		4.58	.22	4	7.23	6.92			
92	130	222	25.43	-1.84	23.59	7.75	14.00	3.31	5.39	-5.74	1.84	9.73		4.56	.22	4	7.24	6.93			
92	131	223	26.72	-1.11	25.61	6.05	13.81	3.43	5.80	-3.93	3.06	9.50		4.54	.22	4	7.26	6.94			
92	132	224	26.54	-.42	26.12	7.56	13.62	3.72	6.19	-5.15	1.25	9.30		4.51	.22	4	7.27	6.94			
92	133	225	28.10	.24	28.34	5.86	13.42	3.82	6.58	-3.33	2.48	9.09		4.48	.22	4	7.28	6.95			
92	134	226	28.19	.61	28.80	7.61	13.47	4.34	7.22	-4.74	.86	8.64	.11	4.44	.22	4	7.30	6.96			
92	135	227	30.00	.54	30.54	6.33	13.94	4.68	8.22	-3.00	2.08	7.77	.14	4.40	.22	4	7.31	6.96	28.90	-1.10	-1.64
92	136	228	30.34	.38	30.72	7.89	14.22	5.02	8.82	-4.20	.26	6.86	.15	4.35	.22	4	7.33	6.97	29.24	-1.10	-1.48
92	137	229	32.40	.20	32.60	6.19	14.08	5.15	9.28	-2.37	1.44	5.99	.16	4.30	.22	4	7.34	6.97	31.22	-1.18	-1.38
92	138	230	32.99	.02	33.01	7.67	13.86	5.44	9.69	-3.54	-.37	5.62	.17	4.25	.20	4	7.35	6.98	31.63	-1.36	-1.38
92	139	231	35.29	-.17	35.12	5.96	13.62	5.55	10.10	-1.73	.79	5.39	.17	4.20	.20	4	7.37	6.99	33.80	-1.49	-1.32
92	140	232	36.13	-.34	35.79	7.41	13.36	5.83	10.49	-2.89	-1.01	5.24	.17	4.15	.20	4	7.38	6.99	34.61	-1.52	-1.18
92	141	233	38.67	-.51	38.16	5.70	13.11	5.93	10.87	-1.09	.16	5.09	.17	4.09	.20	4	7.39	7.00	36.94	-1.73	-1.22
92	142	234	39.75	-.66	39.09	7.15	12.85	6.20	11.25	-2.25	-1.64	4.97	.18	4.03	.20	4	7.41	7.00	38.17	-1.58	-.92
92	143	235	42.52	-.80	41.72	5.45	12.59	6.30	11.62	-.45	-.46	4.84	.18	3.97	.20	4	7.42	7.01	40.93	-1.59	-.79
92	144	236	43.84	-.93	42.91	6.89	12.33	6.57	11.98	-1.61	-2.25	4.73	.18	3.90	.20	4	7.44	7.02	42.46	-1.38	-.45
92	145	237	46.84	-1.05	45.79	5.19	12.07	6.66	12.35	.18	-1.08	4.60	.18	3.83	.20	4	7.45	7.02	45.41	-1.43	-.38
92	146	238	48.38	-1.16	47.22	6.63	11.83	6.93	12.72	-1.00	-2.87	4.48	.18	3.76	.20	4	7.46	7.03	47.34	-1.04	.12
92	147	239	51.60	-1.25	50.35	4.95	11.58	7.03	13.08	.79	-1.69	4.36	.18	3.68	.20	4	7.48	7.04	50.60	-1.00	.25
92	148	240	53.37	-1.33	52.04	6.38	11.33	7.29	13.44	-.38	-3.46	4.25	.18	3.61	.20	4	7.49	7.04	52.74	-.63	.70
92	149	241	56.81	-1.40	55.41	4.70	11.08	7.38	13.80	1.39	-2.29	4.13	.18	3.52	.20	4	7.50	7.05			
92	150	242	58.80	-1.45	57.35	6.13	10.84	7.64	14.15	.23	-4.04	4.02	.18	3.44	.20	4	7.52	7.05			
92	151	243	62.44	-1.50	60.94	4.47	10.61	7.74	14.52	1.98	-2.88	3.88	.18	3.35	.20	4	7.53	7.06			
92	152	244	64.65	-1.53	63.12	5.89	10.37	7.99	14.86	.82	-4.63	3.77	.18	3.26	.20	4	7.54	7.07			
92	153	245	68.50	-1.54	66.96	4.24	10.13	8.08	15.21	2.58	-3.46	3.66	.18	3.17	.20	4	7.56	7.07			
92	154	246	70.92	-1.55	69.37	5.66	9.90	8.33	15.56	1.41	-5.20	3.54	.18	3.08	.18	4	7.57	7.08			
92	155	247	74.97	-1.54	73.43	4.02	9.67	8.43	15.91	3.15	-4.03	3.41	.18	3.00	.18	4	7.58	7.08			
92	156	248	77.60	-1.52	76.08	5.43	9.44	8.67	16.24	2.00	-5.75	3.30	.18	2.92	.18	4	7.60	7.09			
92	157	249	81.85	-1.49	80.36	3.79	9.22	8.76	16.59	3.73	-4.59	3.18	.18	2.83	.18	4	7.61	7.10			
92	158	250	84.68	-1.45	83.23	5.20	8.99	9.01	16.93	2.57	-6.31	3.06	.18	2.74	.18	4	7.62	7.10			
92	159	251	89.12	-1.39	87.73	3.57	8.77	9.10	17.26	4.29	-5.14	2.94	.18	2.66	.18	4	7.63	7.11			
92	160	252	92.14	-1.33	90.81	4.98	8.56	9.35	17.61	3.12	-6.86	2.81	.18	2.57	.18	4	7.65	7.12			
92	161	253	96.77	-1.25	95.52	3.37	8.35	9.44	17.95	4.83	-5.70	2.68	.18	2.47	.18	4	7.66	7.12			
92	162	254	99.99	-1.16	98.83	4.77	8.13	9.68	18.27	3.68	-7.40	2.57	.18	2.38	.18	4	7.67	7.13			
92	163	255	104.81	-1.06	103.75	3.15	7.92	9.76	18.60	5.38	-6.23	2.44	.18	2.28	.18	4	7.69	7.13			
92	164	256	108.22	-.95	107.27	4.55	7.71	10.00	18.93	4.23	-7.92	2.32	.18	2.19	.18	4	7.70	7.14			
92	165	257	113.22	-.82	112.40	2.95	7.49	10.08	19.24	5.93	-6.75	2.20	.17	2.09	.18	4	7.71	7.15			
92	166	258	116.81	-.69	116.12	4.34	7.29	10.32	19.57	4.77	-8.43	2.08	.17	2.00	.16	4	7.72	7.15			
92	167	259	121.98	-.55	121.43	2.76	7.10	10.41	19.90	6.44	-7.28	1.94	.17	1.92	.16	4	7.74	7.16			
92	168	260	125.76	-.40	125.36	4.14	6.90	10.64	20.21	5.29	-8.94	1.82	.17	1.84	.16	4	7.75	7.17			
92	169	261	131.11	-.24	130.87	2.56	6.71	10.72	20.52	6.96	-7.77	1.69	.17	1.75	.16	4	7.76	7.17			
92	170	262	135.06	-.07	134.99	3.95	6.51	10.94	20.81	5.81	-9.41	1.57	.16	1.67	.16	4	7.77	7.18			
92	171	263	140.58	.10	140.68	2.38	6.33	11.01	21.07	7.46	-8.18	1.44	.15	1.58	.16	4	7.79	7.18			
92	172	264	144.70	.25	144.95	3.79	6.18	11.20	21.12	6.27	-9.42	1.30	.14	1.49	.16	4	7.80	7.19			
92	173	265	150.39	.33	150.72	2.31	6.10	10.93	20.82	7.82	-7.61	1.12	.10	1.41	.14	4	7.81	7.20			
92	174	266	154.68	-.13	154.55	4.23	6.55	11.07	21.04	6.05	-9.13	.63		1.34	.14	4	7.82	7.20			
92	175	267	160.53	-.71	159.82	2.80	7.04	11.15	21.35	7.20	-7.95	.43		1.26	.14	4	7.84	7.21			
92	176	268	164.99	-1.31	163.68	4.21	7.02	11.38	21.66	6.02	-9.55	.24		1.19	.14	4	7.85	7.22			
92	177	269	171.00	-1.94	169.06	2.69	6.91	11.45	21.97	7.63	-8.37	.04		1.12	.14	4	7.86	7.22			
92	178	270	175.62	-2.59	173.03	4.10	6.80	11.68	22.28	6.44	-9.97	-.15		1.05	.14	4	7.87	7.23			
92	179	271	181.79	-3.26	178.53	2.58	6.68	11.76	22.58	8.05	-8.78	-.34		.97	.14	4	7.88	7.23			
92	180	272	186.57	-3.95	182.62	3.99	6.56	11.98	22.87	6.88	-10.37	-.53		.90	.12	4	7.90	7.24			
92	181	273	192.89	-4.67	188.22	2.47	6.45	12.06	23.18	8.46	-9.19	-.73		.84	.12	4	7.91	7.25			
92	182	274	197.83	-5.41	192.42	3.87	6.34	12.28	23.48	7.29	-10.77	-.92		.79	.12	4	7.92	7.25			
92	183	275	204.30	-6.18	198.12	2.37	6.24	12.35	23.78	8.87	-9.60	-1.12		.73	.12	4	7.93	7.26			
92	184	276	209.40	-6.96	202.44	3.76	6.12	12.57	24.07	7.70	-12.84	-1.30		.67	.12	4	7.95	7.27			
92	185	277	216.01	-6.10	209.91	.60	4.36	12.65	24.38	10.94	-11.67	.16		.61	.12	4	7.96	7.27			
92	186	278	221.26	-5.26	216.00	1.99	2.58	12.87	24.67	9.78	-13.22	1.65		.55	.12	4	7.97	7.28			
92	187	279	228.02	-4.46	223.56	.51	2.50	12.95	24.97	11.34	-12.04	1.42		.50	.10	4	7.98	7.28			
92	188	280	233.41	-3.69	229.72	1.91	2.42	13.17	25.27	10.16	-13.60	1.21		2.07	.19	ALP	7.99	7.29			
92	189	281	240.31	-2.94	237.37	.43	2.33	13.24	25.57	11.72	-12.43	.99		1.71	.19	ALP	8.00	7.30			
92	190	282	245.85	-2.22	243.63	1.82	2.24	13.46	25.85	10.55	-13.97	.79		1.36	.19	ALP	8.02	7.30			
92	191	283	252.89	-1.53	251.36	.34	2.16	13.53	26.15	12.10	-12.80	.58		1.02	.19	ALP	8.03	7.31			
92	192	284	258.57	-.87	257.70	1.73	2.07	13.75	26.44	10.93	-14.34	.37		.70	.20	ALP	8.04	7.32			
92	193	285	265.75	-.24	265.51	.26	1.99	13.82	26.73	12.47	-13.17	.16		.39	.21	ALP	8.05	7.32			
92	194	286	271.57	.07	271.64	1.94	2.20	14.33	27.31	11.01	-14.33	-.34	.16	.11	.24	ALP	8.06	7.33			
92	195	287	278.87	-.21	278.66	1.05	2.99	14.60	28.32	12.43	-13.20	-1.42	.18	-.09	.27	ALP	8.08	7.34			
92	196	288	284.83	-.49	284.34	2.39	3.44	14.81	28.61	11.30	-14.76	-2.45	.18	-.26	.28	ALP	8.09	7.34			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
92	197	289	292.27	-.75	291.52	.90	3.28	14.87	28.88	12.86	-13.62	-3.30	.18	-.42	.29	ALP	8.10	7.35			
92	198	290	298.36	-1.00	297.36	2.23	3.13	15.08	29.15	11.74	-15.18	-3.44	.19	-.56	.30	ALP	8.11	7.35			
92	199	291	305.92	-1.25	304.67	.75	2.99	15.15	29.44	13.28	-14.06	-3.58	.19	-.69	.30	ALP	8.12	7.36			
92	200	292	312.15	-1.47	310.68	2.08	2.82	15.34	29.70	12.17	-15.59	-3.68	.19	-.82	.31	ALP	8.13	7.37			
92	201	293	319.84	-1.69	318.15	.60	2.67	15.41	29.97	13.72	-14.46	-3.81	.19	-.95	.31	ALP	8.14	7.37			
92	202	294	326.19	-1.90	324.29	1.93	2.53	15.61	30.24	12.59	-16.01	-3.93	.19	-1.07	.31	ALP	8.16	7.38			
92	203	295	334.00	-2.10	331.90	.46	2.39	15.68	30.52	14.12	-14.89	-4.07	.19	-1.19	.31	ALP	8.17	7.39			
92	204	296	340.48	-2.28	338.20	1.78	2.23	15.88	30.77	13.01	-16.42	-4.18	.19	-1.31	.31	ALP	8.18	7.39			
92	205	297	348.42	-2.45	345.97	.31	2.08	15.94	31.03	14.55	-15.28	-4.29	.19	-1.42	.31	ALP	8.19	7.40			
92	206	298	355.02	-2.62	352.40	1.63	1.94	16.14	31.30	13.42	-16.82	-4.42	.19	-1.53	.31	ALP	8.20	7.40			
92	207	299	363.07	-2.77	360.30	.17	1.81	16.20	31.56	14.95	-15.69	-4.55	.19	-1.64	.31	ALP	8.21	7.41			
92	208	300	369.80	-2.91	366.89	1.48	1.66	16.39	31.82	13.84	-17.21	-4.66	.19	-1.75	.31	ALP	8.22	7.42			
92	209	301	377.96	-3.04	374.92	.04	1.53	16.47	32.08	15.35	-16.09	-4.79	.19	-1.85	.31	ALP	8.24	7.42			
92	210	302	384.81	-3.16	381.65	1.35	1.38	16.65	32.33	14.24	-17.60	-4.90	.19	-1.95	.31	ALP	8.25	7.43			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
93	107	200	65.84	-.89	64.95	10.69	23.07	-2.79	-3.69	-11.72	13.88	9.80	.19	3.14	.18	4	6.90	6.81			
93	108	201	61.83	-.78	61.05	11.98	22.66	-2.69	-3.28	-12.90	11.89	9.77	.19	3.22	.18	4	6.92	6.82			
93	109	202	59.48	-.67	58.81	10.30	22.29	-2.36	-2.83	-10.91	13.07	9.71	.18	3.29	.20	4	6.93	6.82			
93	110	203	55.82	-.54	55.28	11.60	21.91	-2.25	-2.41	-12.10	11.08	9.66	.18	3.38	.20	4	6.95	6.83			
93	111	204	53.82	-.39	53.43	9.93	21.53	-1.94	-2.00	-10.10	12.29	9.61	.18	3.46	.20	4	6.97	6.84			
93	112	205	50.50	-.24	50.26	11.24	21.17	-1.83	-1.58	-11.30	10.31	9.55	.18	3.53	.20	4	6.98	6.84			
93	113	206	48.83	-.08	48.75	9.58	20.82	-1.52	-1.16	-9.34	11.51	9.47	.17	3.60	.20	4	7.00	6.85			
93	114	207	45.85	.09	45.94	10.89	20.46	-1.41	-.77	-10.54	9.57	9.41	.17	3.67	.20	4	7.01	6.85			
93	115	208	44.51	.26	44.77	9.24	20.13	-1.11	-.38	-8.60	10.80	9.33	.16	3.73	.20	4	7.03	6.86			
93	116	209	41.86	.43	42.29	10.56	19.80	-1.03	-.06	-9.80	8.96	9.27	.16	3.78	.20	4	7.04	6.87			
93	117	210	40.84	.57	41.41	8.96	19.51	-.79	.11	-7.92	10.52	9.18	.14	3.83	.20	4	7.06	6.87			
93	118	211	38.51	.61	39.12	10.36	19.31	-.94	-.06	-9.24	9.22	9.04	.11	3.87	.20	4	7.07	6.88			
93	119	212	37.80	.20	38.00	9.19	19.55	-.82	.18	-7.87	10.62	8.64		3.91	.20	4	7.09	6.88			
93	120	213	35.79	-.41	35.38	10.70	19.89	-.71	.58	-9.61	8.75	8.47		3.95	.20	4	7.10	6.89			
93	121	214	35.38	-1.06	34.32	9.13	19.83	-.41	1.00	-7.76	9.97	8.29		3.98	.20	4	7.12	6.90			
93	122	215	33.67	-1.74	31.93	10.46	19.59	-.29	1.41	-8.99	8.10	8.12		4.00	.20	4	7.13	6.90			
93	123	216	33.56	-2.45	31.11	8.89	19.35	.01	1.83	-7.12	9.32	7.94		4.02	.20	4	7.15	6.91			
93	124	217	32.15	-3.19	28.96	10.22	19.11	.12	2.23	-8.34	7.46	7.77		4.04	.20	4	7.16	6.91			
93	125	218	32.33	-3.95	28.38	8.66	18.88	.41	2.63	-6.48	8.69	7.60		4.05	.20	4	7.18	6.92			
93	126	219	31.21	-4.75	26.46	9.99	18.65	.52	3.03	-7.70	5.13	7.42		4.05	.20	4	7.19	6.93			
93	127	220	31.67	-3.87	27.80	6.73	16.72	.82	3.44	-4.16	6.36	8.95		4.06	.20	4	7.21	6.93			
93	128	221	30.83	-3.04	27.79	8.07	14.81	.94	3.86	-5.39	4.51	10.45		4.05	.20	4	7.22	6.94			
93	129	222	31.57	-2.24	29.33	6.54	14.61	1.23	4.26	-3.57	5.74	10.24		4.05	.20	4	7.23	6.94			
93	130	223	31.01	-1.47	29.54	7.87	14.40	1.35	4.66	-4.78	3.92	10.05		4.04	.20	4	7.25	6.95			
93	131	224	32.02	-.75	31.27	6.34	14.21	1.63	5.06	-2.97	5.14	9.83		4.02	.20	4	7.26	6.96			
93	132	225	31.73	-.06	31.67	7.67	14.01	1.75	5.46	-4.19	3.33	9.63		4.01	.20	4	7.28	6.96			
93	133	226	33.00	.54	33.54	6.20	13.87	2.09	5.91	-2.44	4.74	9.36	.08	3.98	.20	4	7.29	6.97			
93	134	227	32.98	.56	33.54	8.08	14.27	2.55	6.89	-3.91	3.00	8.56	.13	3.96	.20	4	7.30	6.97			
93	135	228	34.51	.41	34.92	6.69	14.77	2.91	7.59	-2.12	4.20	7.63	.15	3.93	.20	4	7.32	6.98			
93	136	229	34.75	.22	34.97	8.02	14.72	3.04	8.06	-3.30	2.37	6.69	.16	3.89	.20	4	7.33	6.99	33.77	-.98	-1.20
93	137	230	36.52	.03	36.55	6.50	14.51	3.34	8.49	-1.48	3.54	6.19	.17	3.86	.20	4	7.35	6.99	35.20	-1.32	-1.35
93	138	231	37.02	-.17	36.85	7.77	14.26	3.44	8.89	-2.65	1.72	5.97	.17	3.82	.20	4	7.36	7.00	35.65	-1.37	-1.20
93	139	232	39.04	-.35	38.69	6.24	14.01	3.73	9.27	-.83	2.90	5.80	.17	3.77	.20	4	7.37	7.00	37.31	-1.73	-1.38
93	140	233	39.78	-.53	39.25	7.51	13.74	3.83	9.66	-2.00	1.09	5.67	.17	3.72	.20	4	7.39	7.01	38.02	-1.76	-1.23
93	141	234	42.04	-.70	41.34	5.98	13.49	4.11	10.04	-.20	2.25	5.53	.18	3.67	.20	4	7.40	7.02	39.98	-2.06	-1.36
93	142	235	43.02	-.85	42.17	7.25	13.22	4.22	10.41	-1.36	.45	5.42	.18	3.62	.20	4	7.42	7.02	41.06	-1.96	-1.11
93	143	236	45.52	-1.00	44.52	5.72	12.97	4.48	10.79	.43	1.61	5.29	.18	3.56	.20	4	7.43	7.03	43.44	-2.08	-1.08
93	144	237	46.74	-1.13	45.61	6.98	12.70	4.58	11.15	-.74	-.17	5.18	.18	3.50	.20	4	7.44	7.03	44.89	-1.85	-.72
93	145	238	49.46	-1.24	48.22	5.47	12.45	4.86	11.52	1.05	.99	5.07	.18	3.43	.20	4	7.46	7.04	47.48	-1.98	-.74
93	146	239	50.91	-1.35	49.56	6.73	12.19	4.95	11.88	-.12	-.79	4.95	.18	3.37	.20	4	7.47	7.05	49.33	-1.58	-.23
93	147	240	53.86	-1.44	52.42	5.21	11.94	5.22	12.24	1.66	.38	4.84	.18	3.29	.20	4	7.48	7.05	52.23	-1.63	-.19
93	148	241	55.53	-1.52	54.01	6.48	11.70	5.32	12.61	.49	-1.40	4.72	.18	3.22	.20	4	7.50	7.06	54.33	-1.20	.32
93	149	242	58.70	-1.59	57.11	4.97	11.45	5.58	12.97	2.25	-.24	4.60	.18	3.15	.18	4	7.51	7.07	57.54	-1.16	.43
93	150	243	60.60	-1.64	58.96	6.23	11.20	5.68	13.31	1.10	-1.99	4.50	.18	3.09	.18	4	7.52	7.07			
93	151	244	63.98	-1.68	62.30	4.73	10.96	5.94	13.67	2.85	-.83	4.38	.18	3.02	.18	4	7.54	7.08			
93	152	245	66.09	-1.71	64.38	5.99	10.72	6.04	14.02	1.69	-2.58	4.26	.18	2.95	.18	4	7.55	7.08			
93	153	246	69.68	-1.73	67.95	4.50	10.49	6.29	14.38	3.42	-1.42	4.13	.18	2.88	.18	4	7.56	7.09			
93	154	247	72.01	-1.73	70.28	5.75	10.25	6.38	14.72	2.27	-3.15	4.03	.18	2.80	.18	4	7.58	7.10			
93	155	248	75.80	-1.72	74.08	4.27	10.02	6.64	15.07	4.00	-2.00	3.91	.18	2.73	.18	4	7.59	7.10			
93	156	249	78.34	-1.70	76.64	5.52	9.78	6.73	15.40	2.85	-3.72	3.80	.18	2.65	.18	4	7.60	7.11			
93	157	250	82.33	-1.67	80.66	4.05	9.56	6.99	15.75	4.57	-2.57	3.67	.18	2.57	.18	4	7.62	7.11			
93	158	251	85.07	-1.63	83.44	5.29	9.34	7.07	16.09	3.41	-4.29	3.55	.18	2.48	.18	4	7.63	7.12			
93	159	252	89.26	-1.57	87.69	3.82	9.12	7.32	16.43	5.13	-3.13	3.43	.18	2.40	.18	4	7.64	7.13			
93	160	253	92.19	-1.50	90.69	5.07	8.90	7.42	16.76	3.98	-4.84	3.31	.18	2.31	.18	4	7.65	7.13			
93	161	254	96.57	-1.42	95.15	3.62	8.68	7.67	17.10	5.68	-3.68	3.19	.18	2.22	.18	4	7.67	7.14			
93	162	255	99.70	-1.33	98.37	4.86	8.46	7.76	17.43	4.52	-5.38	3.07	.18	2.13	.18	4	7.68	7.15			
93	163	256	104.27	-1.23	103.04	3.40	8.25	8.00	17.76	6.22	-4.23	2.94	.18	2.06	.16	4	7.69	7.15			
93	164	257	107.59	-1.12	106.47	4.64	8.04	8.09	18.09	5.06	-5.92	2.82	.18	1.98	.16	4	7.70	7.16			
93	165	258	112.35	-.99	111.36	3.19	7.83	8.32	18.41	6.76	-4.75	2.71	.18	1.91	.16	4	7.72	7.16			
93	166	259	115.85	-.86	114.99	4.43	7.63	8.41	18.74	5.60	-6.44	2.58	.17	1.83	.16	4	7.73	7.17			
93	167	260	120.78	-.72	120.06	3.00	7.43	8.66	19.07	7.27	-5.30	2.45	.17	1.75	.16	4	7.74	7.18			
93	168	261	124.47	-.56	123.91	4.23	7.22	8.74	19.38	6.13	-6.96	2.33	.17	1.67	.16	4	7.76	7.18			
93	169	262	129.58	-.40	129.18	2.80	7.03	8.98	19.70	7.79	-5.81	2.20	.17	1.59	.16	4	7.77	7.19			
93	170	263	133.45	-.23	133.22	4.03	6.83	9.05	20.00	6.64	-7.45	2.08	.17	1.50	.16	4	7.78	7.20			
93	171	264	138.73	-.05	138.68	2.61	6.65	9.28	20.30	8.29	-6.27	1.95	.16	1.43	.14	4	7.79	7.20			
93	172	265	142.77	.13	142.90	3.85	6.46	9.35	20.54	7.13	-7.82	1.83	.15	1.36	.14	4	7.81	7.21			
93	173	266	148.22	.28	148.50	2.47	6.32	9.50	20.44	8.74	-6.06	1.68	.13	1.29	.14	4	7.82	7.21			
93	174	267	152.43	.19	152.62	3.95	6.42	9.22	20.29	7.31	-7.20	1.33		1.22	.14	4	7.83	7.22			
93	175	268	158.05	-.39	157.66	3.03	6.98	9.45	20.60	8.24	-6.02	.87		1.15	.14	4	7.84	7.23			
93	176	269	162.43	-.99	161.44	4.29	7.33	9.53	20.91	6.90	-7.62	.68		1.08	.14	4	7.85	7.23			
93	177	270	168.20	-1.62	166.58	2.92	7.22	9.77	21.23	8.49	-6.46	.47		1.01	.14	4	7.87	7.24			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
93	178	271	172.75	-2.27	170.48	4.17	7.10	9.85	21.53	7.32	-8.05	.29		.94	.14	4	7.88	7.25			
93	179	272	178.68	-2.94	175.74	2.81	6.99	10.08	21.84	8.90	-6.88	.09		.88	.12	4	7.89	7.25			
93	180	273	183.39	-3.63	179.76	4.06	6.86	10.15	22.13	7.74	-8.46	-.09		.83	.12	4	7.90	7.26			
93	181	274	189.48	-4.35	185.13	2.70	6.76	10.38	22.44	9.32	-7.29	-.29		.78	.12	4	7.92	7.26			
93	182	275	194.35	-5.09	189.26	3.94	6.64	10.45	22.73	8.16	-8.87	-.47		.72	.12	4	7.93	7.27			
93	183	276	200.59	-5.85	194.74	2.59	6.53	10.68	23.03	9.73	-7.70	-.67		.66	.12	4	7.94	7.28			
93	184	277	205.61	-6.64	198.97	3.83	6.43	10.75	23.33	8.56	-10.95	-.86		.61	.12	4	7.95	7.28			
93	185	278	212.00	-5.78	206.22	.82	4.66	10.98	23.63	11.79	-9.77	.60		.55	.12	4	7.96	7.29			
93	186	279	217.17	-4.95	212.22	2.07	2.90	11.06	23.93	10.62	-11.34	2.07		.50	.10	4	7.98	7.30			
93	187	280	223.71	-4.15	219.56	.73	2.81	11.28	24.23	12.17	-10.17	1.86		2.27	.19	ALP	7.99	7.30			
93	188	281	229.03	-3.37	225.66	1.98	2.71	11.36	24.52	11.01	-11.71	1.66		1.90	.19	ALP	8.00	7.31			
93	189	282	235.71	-2.63	233.08	.65	2.63	11.58	24.82	12.56	-10.55	1.44		1.54	.19	ALP	8.01	7.31			
93	190	283	241.17	-1.91	239.26	1.90	2.54	11.66	25.12	11.39	-12.10	1.23		1.19	.19	ALP	8.02	7.32			
93	191	284	248.00	-1.23	246.77	.56	2.45	11.87	25.41	12.94	-10.93	1.02		.86	.19	ALP	8.03	7.33			
93	192	285	253.60	-.57	253.03	1.81	2.37	11.96	25.70	11.76	-12.48	.81		.54	.20	ALP	8.05	7.33			
93	193	286	260.56	.06	260.62	.49	2.29	12.17	26.00	13.30	-11.01	.60		.23	.21	ALP	8.06	7.34			
93	194	287	266.31	-.08	266.23	2.47	2.95	12.69	27.02	11.66	-12.43	-.35	.18	-.02	.25	ALP	8.07	7.35			
93	195	288	273.41	-.36	273.05	1.26	3.72	12.90	27.50	13.23	-11.29	-1.41	.18	-.21	.28	ALP	8.08	7.35			
93	196	289	279.29	-.64	278.65	2.46	3.73	12.98	27.79	12.09	-12.87	-2.45	.18	-.37	.29	ALP	8.09	7.36			
93	197	290	286.52	-.90	285.62	1.11	3.57	13.19	28.06	13.65	-11.74	-2.77	.19	-.52	.29	ALP	8.10	7.36			
93	198	291	292.54	-1.15	291.39	2.30	3.41	13.26	28.33	12.53	-13.29	-2.89	.19	-.66	.30	ALP	8.12	7.37			
93	199	292	299.90	-1.39	298.51	.95	3.25	13.46	28.60	14.08	-12.16	-3.02	.19	-.79	.30	ALP	8.13	7.38			
93	200	293	306.05	-1.62	304.43	2.15	3.10	13.53	28.88	12.95	-13.72	-3.14	.19	-.92	.31	ALP	8.14	7.38			
93	201	294	313.54	-1.84	311.70	.80	2.95	13.73	29.15	14.50	-12.59	-3.26	.19	-1.04	.31	ALP	8.15	7.39			
93	202	295	319.82	-2.04	317.78	1.99	2.80	13.80	29.41	13.38	-14.13	-3.38	.19	-1.16	.31	ALP	8.16	7.40			
93	203	296	327.43	-2.24	325.19	.66	2.65	14.01	29.69	14.91	-13.01	-3.50	.19	-1.28	.31	ALP	8.17	7.40			
93	204	297	333.84	-2.42	331.42	1.85	2.50	14.07	29.95	13.79	-14.54	-3.62	.19	-1.39	.31	ALP	8.18	7.41			
93	205	298	341.57	-2.59	338.98	.52	2.36	14.28	30.21	15.33	-13.42	-3.74	.19	-1.50	.31	ALP	8.20	7.41			
93	206	299	348.11	-2.76	345.35	1.70	2.21	14.34	30.48	14.20	-14.95	-3.86	.19	-1.61	.31	ALP	8.21	7.42			
93	207	300	355.96	-2.91	353.05	.37	2.07	14.54	30.74	15.72	-13.84	-3.99	.19	-1.72	.31	ALP	8.22	7.43			
93	208	301	362.62	-3.05	359.57	1.55	1.93	14.60	31.00	14.61	-15.35	-4.11	.19	-1.82	.31	ALP	8.23	7.43			
93	209	302	370.59	-3.18	367.41	.23	1.79	14.80	31.26	16.12	-14.24	-4.23	.19	-1.93	.31	ALP	8.24	7.44			
93	210	303	377.37	-3.30	374.07	1.41	1.65	14.86	31.52	15.01	-15.75	-4.35	.19	-2.03	.31	ALP	8.25	7.45			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
94	102	196	94.40	-1.44	92.96	13.51	25.52	-2.69	-6.70	-17.64	13.38	10.37	.19	2.19	.16	4	6.83	6.80			
94	103	197	90.84	-1.41	89.43	11.59	25.11	-2.56	-6.24	-15.61	14.56	10.32	.19	2.27	.16	4	6.85	6.81			
94	104	198	85.77	-1.36	84.41	13.10	24.69	-2.25	-5.81	-16.78	12.54	10.31	.19	2.37	.18	4	6.86	6.81			
94	105	199	82.59	-1.29	81.30	11.19	24.28	-2.13	-5.38	-14.75	13.73	10.27	.19	2.46	.18	4	6.88	6.82			
94	106	200	77.89	-1.22	76.67	12.69	23.88	-1.82	-4.93	-15.94	11.71	10.23	.19	2.56	.18	4	6.89	6.83			
94	107	201	75.07	-1.12	73.95	10.80	23.49	-1.70	-4.50	-13.92	12.90	10.18	.19	2.65	.18	4	6.91	6.83			
94	108	202	70.74	-1.02	69.72	12.29	23.10	-1.39	-4.07	-15.10	10.90	10.14	.19	2.73	.18	4	6.93	6.84			
94	109	203	68.27	-.90	67.37	10.42	22.72	-1.27	-3.63	-13.11	12.09	10.07	.19	2.81	.18	4	6.94	6.84			
94	110	204	64.30	-.76	63.54	11.91	22.32	-.97	-3.22	-14.28	10.12	10.04	.19	2.88	.18	4	6.96	6.85			
94	111	205	62.18	-.62	61.56	10.04	21.96	-.85	-2.79	-12.30	11.30	9.97	.18	2.95	.18	4	6.97	6.85			
94	112	206	58.55	-.46	58.09	11.54	21.59	-.54	-2.37	-13.48	9.34	9.92	.18	3.02	.18	4	6.99	6.86			
94	113	207	56.77	-.29	56.48	9.68	21.22	-.44	-1.96	-11.51	10.54	9.86	.18	3.08	.18	4	7.00	6.87			
94	114	208	53.48	-.11	53.37	11.18	20.87	-.14	-1.55	-12.70	8.60	9.80	.17	3.13	.18	4	7.02	6.87			
94	115	209	52.02	.07	52.09	9.35	20.53	-.03	-1.15	-10.76	9.80	9.72	.17	3.18	.18	4	7.03	6.88			
94	116	210	49.07	.26	49.33	10.84	20.18	.25	-.79	-11.94	7.92	9.66	.16	3.23	.18	4	7.05	6.88			
94	117	211	47.93	.43	48.36	9.04	19.88	.34	-.46	-10.04	9.24	9.57	.15	3.28	.18	4	7.07	6.89			
94	118	212	45.30	.56	45.86	10.57	19.61	.55	-.40	-11.29	7.85	9.47	.13	3.32	.18	4	7.08	6.90			
94	119	213	44.48	.51	44.99	8.95	19.52	.30	-.52	-9.60	9.62	9.24	.07	3.36	.20	4	7.10	6.90			
94	120	214	42.17	-.08	42.09	10.98	19.92	.58	-.14	-11.47	7.77	8.78		3.40	.20	4	7.11	6.91			
94	121	215	41.65	-.73	40.92	9.23	20.22	.69	.28	-9.86	8.99	8.60		3.43	.20	4	7.12	6.91			
94	122	216	39.64	-1.41	38.23	10.76	20.00	.99	.70	-11.09	7.12	8.43		3.46	.20	4	7.14	6.92			
94	123	217	39.42	-2.12	37.30	9.00	19.76	1.10	1.11	-9.22	8.34	8.25		3.49	.20	4	7.15	6.93			
94	124	218	37.72	-2.85	34.87	10.51	19.51	1.38	1.50	-10.42	6.50	8.10		3.51	.20	4	7.17	6.93			
94	125	219	37.78	-3.62	34.16	8.77	19.29	1.50	1.92	-8.58	7.70	7.91		3.53	.20	4	7.18	6.94			
94	126	220	36.37	-4.41	31.96	10.28	19.05	1.79	2.31	-9.79	4.17	7.75		3.54	.20	4	7.20	6.94			
94	127	221	36.73	-3.54	33.19	6.84	17.12	1.90	2.72	-6.25	5.39	9.27		3.55	.20	4	7.21	6.95			
94	128	222	35.60	-2.71	32.89	8.36	15.21	2.19	3.13	-7.47	3.56	10.77		3.55	.20	4	7.23	6.96			
94	129	223	36.23	-1.91	34.32	6.65	15.01	2.30	3.53	-5.64	4.78	10.57		3.55	.20	4	7.24	6.96			
94	130	224	35.39	-1.15	34.24	8.16	14.80	2.59	3.93	-6.85	2.97	10.37		3.55	.20	4	7.26	6.97			
94	131	225	36.29	-.43	35.86	6.45	14.61	2.70	4.33	-5.04	4.19	10.16		3.54	.20	4	7.27	6.97			
94	132	226	35.72	.25	35.97	7.96	14.41	2.99	4.74	-6.26	2.43	9.95		3.52	.20	4	7.28	6.98			
94	133	227	36.89	.57	37.46	6.59	14.54	3.38	5.46	-4.74	3.92	9.42	.12	3.51	.20	4	7.30	6.99			
94	134	228	36.59	.45	37.04	8.48	15.08	3.79	6.34	-6.04	2.12	8.49	.15	3.49	.20	4	7.31	6.99			
94	135	229	38.01	.26	38.27	6.84	15.33	3.93	6.85	-4.23	3.30	7.51	.16	3.46	.20	4	7.33	7.00			
94	136	230	37.97	.06	38.03	8.31	15.15	4.23	7.27	-5.41	1.48	6.81	.17	3.43	.20	4	7.34	7.00			
94	137	231	39.65	-.14	39.51	6.60	14.91	4.33	7.67	-3.57	2.66	6.55	.17	3.40	.20	4	7.35	7.01			
94	138	232	39.86	-.34	39.52	8.06	14.66	4.62	8.07	-4.74	.84	6.37	.17	3.37	.20	4	7.37	7.02	38.36	-1.50	-1.16
94	139	233	41.78	-.53	41.25	6.35	14.40	4.73	8.45	-2.93	2.00	6.23	.17	3.33	.20	4	7.38	7.02	40.06	-1.72	-1.19
94	140	234	42.25	-.71	41.54	7.78	14.13	5.00	8.83	-4.09	.20	6.11	.18	3.28	.20	4	7.40	7.03	40.36	-1.89	-1.18
94	141	235	44.41	-.88	43.53	6.08	13.87	5.10	9.21	-2.29	1.36	5.98	.18	3.24	.18	4	7.41	7.04	42.19	-2.22	-1.34
94	142	236	45.13	-1.03	44.10	7.51	13.59	5.36	9.57	-3.43	-.42	5.88	.18	3.20	.18	4	7.42	7.04	42.90	-2.23	-1.20
94	143	237	47.52	-1.18	46.34	5.82	13.34	5.47	9.96	-1.65	.73	5.75	.18	3.16	.18	4	7.44	7.05	45.11	-2.41	-1.23
94	144	238	48.48	-1.31	47.17	7.24	13.07	5.72	10.32	-2.80	-1.05	5.65	.18	3.11	.18	4	7.45	7.05	46.19	-2.29	-.98
94	145	239	51.10	-1.42	49.68	5.56	12.81	5.83	10.68	-1.02	.12	5.54	.18	3.06	.18	4	7.46	7.06	48.60	-2.50	-1.08
94	146	240	52.29	-1.53	50.76	6.99	12.55	6.09	11.05	-2.18	-1.66	5.43	.18	3.01	.18	4	7.48	7.07	50.14	-2.15	-.62
94	147	241	55.14	-1.62	53.52	5.31	12.30	6.18	11.41	-.40	-.50	5.31	.18	2.96	.18	4	7.49	7.07	52.97	-2.17	-.55
94	148	242	56.55	-1.70	54.85	6.74	12.05	6.45	11.77	-1.57	-2.27	5.20	.18	2.90	.18	4	7.50	7.08	54.74	-1.81	-.11
94	149	243	59.62	-1.76	57.86	5.07	11.80	6.55	12.13	.20	-1.10	5.09	.18	2.84	.18	4	7.52	7.08	57.78	-1.84	-.08
94	150	244	61.26	-1.81	59.45	6.49	11.55	6.80	12.47	-.95	-2.85	4.98	.18	2.78	.18	4	7.53	7.09	59.83	-1.43	.38
94	151	245	64.55	-1.85	62.70	4.83	11.31	6.89	12.83	.81	-1.68	4.87	.18	2.72	.18	4	7.54	7.10	63.18	-1.37	.48
94	152	246	66.41	-1.88	64.53	6.24	11.06	7.15	13.17	-.34	-3.43	4.76	.18	2.65	.18	4	7.56	7.10	65.32	-1.09	.79
94	153	247	69.90	-1.90	68.00	4.59	10.84	7.24	13.54	1.39	-2.28	4.63	.18	2.59	.18	4	7.57	7.11			

Z	N	A	DROPLET MASS	CALC. SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
94	154	248	71.98	-1.90	70.08	6.00	10.59	7.49	13.87	.25	-4.00	4.53	.18	2.52	.18	4	7.58	7.11			
94	155	249	75.68	-1.89	73.79	4.36	10.36	7.58	14.22	1.98	-2.84	4.41	.18	2.44	.18	4	7.60	7.12			
94	156	250	77.96	-1.87	76.09	5.77	10.13	7.83	14.57	.83	-4.57	4.29	.18	2.37	.18	4	7.61	7.13			
94	157	251	81.86	-1.84	80.02	4.14	9.91	7.93	14.92	2.54	-3.42	4.16	.18	2.29	.18	4	7.62	7.13			
94	158	252	84.35	-1.79	82.56	5.54	9.67	8.17	15.25	1.40	-5.13	4.06	.18	2.21	.18	4	7.63	7.14			
94	159	253	88.45	-1.73	86.72	3.92	9.45	8.26	15.58	3.12	-3.97	3.94	.18	2.14	.16	4	7.65	7.14			
94	160	254	91.14	-1.67	89.47	5.31	9.23	8.51	15.92	1.96	-5.68	3.82	.18	2.07	.16	4	7.66	7.15			
94	161	255	95.43	-1.59	93.84	3.70	9.02	8.60	16.26	3.66	-4.53	3.69	.18	2.01	.16	4	7.67	7.16			
94	162	256	98.32	-1.49	96.83	5.09	8.79	8.83	16.58	2.53	-6.21	3.59	.18	1.94	.16	4	7.69	7.16			
94	163	257	102.80	-1.39	101.41	3.49	8.58	8.92	16.92	4.22	-5.06	3.46	.18	1.87	.16	4	7.70	7.17			
94	164	258	105.88	-1.28	104.60	4.88	8.37	9.16	17.25	3.07	-6.75	3.34	.18	1.79	.16	4	7.71	7.18			
94	165	259	110.54	-1.15	109.39	3.28	8.16	9.25	17.58	4.76	-5.60	3.21	.18	1.72	.16	4	7.72	7.18			
94	166	260	113.81	-1.02	112.79	4.67	7.95	9.49	17.90	3.61	-7.28	3.10	.18	1.65	.16	4	7.74	7.19			
94	167	261	118.65	-.87	117.78	3.08	7.75	9.58	18.23	5.29	-6.13	2.96	.18	1.57	.16	4	7.75	7.19			
94	168	262	122.11	-.71	121.40	4.46	7.53	9.80	18.54	4.16	-7.78	2.86	.17	1.49	.16	4	7.76	7.20			
94	169	263	127.13	-.55	126.58	2.88	7.35	9.89	18.87	5.81	-6.64	2.72	.17	1.43	.14	4	7.77	7.21			
94	170	264	130.76	-.37	130.39	4.27	7.14	10.12	19.17	4.67	-8.29	2.61	.17	1.36	.14	4	7.79	7.21			
94	171	265	135.96	-.19	135.77	2.69	6.95	10.20	19.48	6.33	-7.13	2.48	.17	1.30	.14	4	7.80	7.22			
94	172	266	139.77	-0.	139.77	4.07	6.76	10.42	19.76	5.18	-8.73	2.36	.16	1.24	.14	4	7.81	7.23			
94	173	267	145.13	.18	145.31	2.53	6.60	10.48	19.99	6.80	-7.31	2.21	.15	1.17	.14	4	7.82	7.23			
94	174	268	149.12	.30	149.42	3.96	6.49	10.49	19.71	5.59	-8.24	2.04	.11	1.11	.14	4	7.84	7.24			
94	175	269	154.65	-.11	154.54	2.95	6.91	10.40	19.86	6.63	-6.89	1.40		1.04	.14	4	7.85	7.24			
94	176	270	158.80	-.71	158.09	4.52	7.47	10.63	20.17	4.98	-8.50	1.11		.97	.14	4	7.86	7.25			
94	177	271	164.50	-1.33	163.17	3.00	7.52	10.71	20.47	6.59	-7.31	.92		.91	.12	4	7.87	7.26			
94	178	272	168.82	-1.98	166.84	4.40	7.40	10.93	20.78	5.42	-8.90	.73		.86	.12	4	7.89	7.26			
94	179	273	174.67	-2.65	172.02	2.89	7.29	11.02	21.09	7.01	-7.74	.53		.81	.12	4	7.90	7.27			
94	180	274	179.16	-3.35	175.81	4.28	7.17	11.23	21.39	5.84	-9.32	.35		.76	.12	4	7.91	7.27			
94	181	275	185.17	-4.06	181.11	2.77	7.05	11.31	21.69	7.43	-8.14	.16		.70	.12	4	7.92	7.28			
94	182	276	189.81	-4.80	185.01	4.17	6.94	11.54	21.99	6.26	-9.73	-.03		.65	.12	4	7.93	7.29			
94	183	277	195.98	-5.56	190.42	2.66	6.83	11.61	22.28	7.84	-8.55	-.22		.59	.12	4	7.95	7.29			
94	184	278	200.78	-6.34	194.44	4.05	6.71	11.83	22.58	6.68	-11.78	-.41		.54	.10	4	7.96	7.30			
94	185	279	207.09	-5.49	201.60	.90	4.96	11.91	22.89	9.90	-10.62	1.05		.50	.10	4	7.97	7.31			
94	186	280	212.05	-4.66	207.39	2.29	3.19	12.12	23.18	8.74	-12.17	2.53		2.50	.19	ALP	7.98	7.31			
94	187	281	218.51	-3.86	214.65	.81	3.10	12.20	23.49	10.30	-11.00	2.31		2.12	.19	ALP	7.99	7.32			
94	188	282	223.61	-3.09	220.52	2.20	3.01	12.43	23.78	9.13	-12.56	2.10		1.75	.19	ALP	8.01	7.32			
94	189	283	230.22	-2.35	227.87	.72	2.92	12.50	24.08	10.69	-11.39	1.89		1.39	.19	ALP	8.02	7.33			
94	190	284	235.47	-1.64	233.83	2.11	2.83	12.72	24.38	9.52	-12.94	1.68		1.04	.19	ALP	8.03	7.34			
94	191	285	242.22	-.95	241.27	.64	2.74	12.79	24.66	11.07	-11.77	1.47		.71	.19	ALP	8.04	7.34			
94	192	286	247.62	-.30	247.32	2.01	2.66	13.00	24.96	9.91	-13.31	1.27		.39	.20	ALP	8.05	7.35			
94	193	287	254.50	.07	254.57	.82	2.84	13.35	25.52	11.18	-11.66	.79	.16	.09	.23	ALP	8.06	7.36			
94	194	288	260.04	-.22	259.82	2.83	3.64	13.70	26.39	9.76	-13.22	-.30	.18	-.13	.26	ALP	8.08	7.36			
94	195	289	267.07	-.50	266.57	1.33	4.15	13.77	26.67	11.33	-12.09	-1.36	.18	-.32	.28	ALP	8.09	7.37			
94	196	290	272.75	-.78	271.97	2.66	4.00	13.97	26.95	10.21	-13.65	-2.09	.19	-.47	.29	ALP	8.10	7.37			
94	197	291	279.90	-1.04	278.86	1.18	3.85	14.05	27.24	11.76	-12.53	-2.23	.19	-.62	.30	ALP	8.11	7.38			
94	198	292	285.72	-1.29	284.43	2.50	3.68	14.25	27.50	10.65	-14.08	-2.34	.19	-.76	.30	ALP	8.12	7.39			
94	199	293	293.01	-1.53	291.48	1.02	3.53	14.31	27.78	12.20	-12.95	-2.46	.19	-.89	.30	ALP	8.13	7.39			
94	200	294	298.96	-1.76	297.20	2.34	3.37	14.52	28.05	11.08	-14.50	-2.58	.19	-1.01	.31	ALP	8.14	7.40			
94	201	295	306.37	-1.97	304.40	.87	3.22	14.59	28.32	12.62	-13.38	-2.70	.19	-1.13	.31	ALP	8.16	7.41			
94	202	296	312.45	-2.18	310.27	2.20	3.07	14.79	28.60	11.50	-14.92	-2.83	.19	-1.25	.31	ALP	8.17	7.41			
94	203	297	319.99	-2.37	317.62	.73	2.92	14.86	28.87	13.04	-13.80	-2.95	.19	-1.37	.31	ALP	8.18	7.42			
94	204	298	326.21	-2.55	323.66	2.04	2.76	15.05	29.12	11.94	-15.32	-3.05	.19	-1.48	.31	ALP	8.19	7.42			
94	205	299	333.87	-2.72	331.15	.58	2.62	15.12	29.39	13.46	-14.20	-3.18	.19	-1.59	.31	ALP	8.20	7.43			
94	206	300	340.21	-2.88	337.33	1.89	2.47	15.32	29.65	12.35	-15.72	-3.30	.19	-1.70	.31	ALP	8.21	7.44			
94	207	301	348.00	-3.03	344.97	.43	2.32	15.38	29.91	13.88	-14.60	-3.42	.19	-1.80	.31	ALP	8.22	7.44			
94	208	302	354.46	-3.17	351.29	1.75	2.18	15.58	30.17	12.76	-16.12	-3.54	.19	-1.91	.31	ALP	8.24	7.45			
94	209	303	362.36	-3.30	359.06	.30	2.05	15.64	30.44	14.27	-15.01	-3.67	.19	-2.01	.31	ALP	8.25	7.46			
94	210	304	368.95	-3.42	365.53	1.60	1.90	15.83	30.70	13.17	-16.52	-3.78	.19	-2.11	.31	ALP	8.26	7.46			

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Z	N	A	DROPLET MASS	CALC. SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
95	111	206	72.40	-.83	71.57	10.36	22.39	-2.72	-3.57	-11.33	13.48	10.33	.19	2.46	.18	4	6.98	6.87			
95	112	207	68.66	-.67	67.99	11.65	22.01	-2.61	-3.15	-12.51	11.51	10.28	.18	2.53	.18	4	7.00	6.88			
95	113	208	66.56	-.49	66.07	10.00	21.65	-2.30	-2.74	-10.55	12.70	10.22	.18	2.60	.18	4	7.01	6.89			
95	114	209	63.16	-.31	62.85	11.29	21.29	-2.19	-2.33	-11.73	10.76	10.17	.18	2.66	.18	4	7.03	6.89			
95	115	210	61.39	-.12	61.27	9.65	20.94	-1.89	-1.92	-9.79	11.94	10.09	.18	2.72	.18	4	7.04	6.90			
95	116	211	58.32	.08	58.40	10.95	20.59	-1.79	-1.53	-10.98	10.04	10.03	.17	2.77	.18	4	7.06	6.90			
95	117	212	56.88	.28	57.16	9.32	20.26	-1.50	-1.17	-9.05	11.29	9.96	.16	2.82	.18	4	7.07	6.91			
95	118	213	54.13	.45	54.58	10.64	19.97	-1.43	-.88	-10.28	9.59	9.87	.15	2.86	.18	4	7.09	6.92			
95	119	214	53.00	.55	53.55	9.11	19.75	-1.27	-.96	-8.47	11.47	9.72	.12	2.90	.18	4	7.10	6.92			
95	120	215	50.58	.21	50.79	10.84	19.94	-1.41	-.84	-10.15	9.87	9.24		2.94	.18	4	7.12	6.93			
95	121	216	49.76	-.44	49.32	9.53	20.38	-1.11	-.42	-8.87	11.09	8.89		2.97	.18	4	7.13	6.93			
95	122	217	47.64	-1.12	46.52	10.86	20.41	-1.00	-.01	-10.10	9.22	8.72		3.00	.18	4	7.15	6.94			
95	123	218	47.12	-1.82	45.30	9.30	20.16	-.70	.39	-8.23	10.44	8.56		3.03	.18	4	7.16	6.95			
95	124	219	45.30	-2.56	42.74	10.62	19.93	-.59	.80	-9.45	8.58	8.38		3.05	.18	4	7.18	6.95			
95	125	220	45.07	-3.32	41.75	9.07	19.69	-.29	1.20	-7.60	9.79	8.21		3.07	.18	4	7.19	6.96			
95	126	221	43.55	-4.12	39.43	10.39	19.46	-.18	1.61	-8.82	6.25	8.04		3.08	.18	4	7.21	6.96			
95	127	222	43.61	-3.25	40.36	7.15	17.53	.11	2.01	-5.29	7.46	9.56		3.09	.18	4	7.22	6.97			
95	128	223	42.38	-2.42	39.96	8.47	15.62	.22	2.42	-6.51	5.64	11.08		3.10	.18	4	7.23	6.98			
95	129	224	42.72	-1.62	41.10	6.94	15.41	.52	2.81	-4.68	6.86	10.88		3.10	.18	4	7.25	6.98			
95	130	225	41.77	-.87	40.90	8.27	15.21	.63	3.22	-5.90	5.04	10.68		3.10	.18	4	7.26	6.99			
95	131	226	42.38	-.15	42.23	6.74	15.01	.92	3.62	-4.09	6.25	10.47		3.10	.18	4	7.28	6.99			
95	132	227	41.71	.49	42.20	8.10	14.85	1.06	4.05	-5.34	4.75	10.24	.08	3.09	.18	4	7.29	7.00			
95	133	228	42.59	.50	43.09	7.19	15.28	1.66	5.03	-3.92	6.05	9.40	.14	3.08	.18	4	7.31	7.01			
95	134	229	42.18	.32	42.50	8.65	15.85	1.83	5.62	-5.16	4.23	8.40	.15	3.07	.18	4	7.32	7.01			
95	135	230	43.32	.12	43.44	7.14	15.79	2.13	6.06	-3.33	5.41	7.47	.16	3.05	.18	4	7.33	7.02			
95	136	231	43.18	-.10	43.08	8.42	15.57	2.24	6.47	-4.51	3.58	7.11	.17	3.03	.18	4	7.35	7.02			
95	137	232	44.57	-.31	44.26	6.89	15.32	2.53	6.87	-2.69	4.74	6.92	.17	3.01	.18	4	7.36	7.03			
95	138	233	44.69	-.51	44.18	8.15	15.04	2.63	7.25	-3.85	2.93	6.78	.17	2.99	.18	4	7.38	7.04			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
95	139	234	46.33	-.70	45.63	6.62	14.78	2.91	7.63	-2.04	4.09	6.65	.18	2.96	.18	4	7.39	7.04	44.43	-1.90	-1.20
95	140	235	46.70	-.88	45.82	7.88	14.50	3.01	8.01	-3.19	2.29	6.54	.18	2.93	.18	4	7.40	7.05	44.67	-2.03	-1.15
95	141	236	48.58	-1.05	47.53	6.35	14.24	3.29	8.39	-1.40	3.44	6.42	.18	2.89	.18	4	7.42	7.05	46.03	-2.55	-1.50
95	142	237	49.19	-1.20	47.99	7.62	13.97	3.39	8.76	-2.56	1.64	6.32	.18	2.86	.18	4	7.43	7.06	46.65	-2.54	-1.34
95	143	238	51.32	-1.34	49.98	6.09	13.70	3.66	9.12	-.76	2.81	6.21	.18	2.82	.18	4	7.44	7.07	48.49	-2.83	-1.49
95	144	239	52.17	-1.47	50.70	7.35	13.44	3.76	9.49	-1.92	1.02	6.11	.18	2.78	.18	4	7.46	7.07	49.41	-2.76	-1.29
95	145	240	54.53	-1.59	52.94	5.83	13.18	4.03	9.86	-.14	2.18	5.99	.18	2.73	.18	4	7.47	7.08	51.54	-2.99	-1.40
95	146	241	55.62	-1.69	53.93	7.08	12.91	4.12	10.21	-1.29	.41	5.89	.18	2.68	.18	4	7.48	7.08	52.95	-2.67	-.98
95	147	242	58.20	-1.78	56.42	5.58	12.66	4.39	10.58	.47	1.56	5.78	.18	2.63	.18	4	7.50	7.09	55.49	-2.71	-.93
95	148	243	59.52	-1.86	57.66	6.83	12.41	4.49	10.93	-.68	-.20	5.67	.18	2.58	.18	4	7.51	7.10	57.19	-2.33	-.47
95	149	244	62.32	-1.92	60.40	5.33	12.16	4.76	11.29	1.07	.95	5.56	.18	2.53	.18	4	7.52	7.10	59.90	-2.42	-.50
95	150	245	63.87	-1.98	61.89	6.58	11.91	4.84	11.65	-.08	-.80	5.45	.18	2.47	.18	4	7.54	7.11	61.92	-1.95	.03
95	151	246	66.89	-2.02	64.87	5.09	11.67	5.11	12.01	1.66	.34	5.33	.18	2.41	.18	4	7.55	7.11	64.94	-1.95	.07
95	152	247	68.65	-2.04	66.61	6.34	11.42	5.21	12.35	.51	-1.40	5.23	.18	2.35	.18	4	7.56	7.12	67.16	-1.49	.55
95	153	248	71.89	-2.06	69.83	4.85	11.19	5.46	12.71	2.25	-.25	5.11	.18	2.28	.18	4	7.58	7.13	70.52	-1.37	.69
95	154	249	73.87	-2.06	71.81	6.09	10.94	5.55	13.05	1.10	-1.98	5.00	.18	2.22	.16	4	7.59	7.13			
95	155	250	77.31	-2.05	75.26	4.62	10.72	5.81	13.40	2.83	-.83	4.88	.18	2.17	.16	4	7.60	7.14			
95	156	251	79.50	-2.03	77.47	5.86	10.48	5.90	13.74	1.67	-2.56	4.77	.18	2.11	.16	4	7.62	7.14			
95	157	252	83.15	-1.99	81.16	4.39	10.25	6.16	14.08	3.40	-1.40	4.65	.18	2.05	.16	4	7.63	7.15			
95	158	253	85.55	-1.95	83.60	5.63	10.02	6.24	14.42	2.25	-3.11	4.54	.18	1.99	.16	4	7.64	7.16			
95	159	254	89.39	-1.89	87.50	4.17	9.80	6.50	14.77	3.95	-1.97	4.41	.18	1.93	.16	4	7.65	7.16			
95	160	255	91.99	-1.82	90.17	5.41	9.58	6.59	15.10	2.81	-3.68	4.30	.18	1.87	.16	4	7.67	7.17			
95	161	256	96.04	-1.74	94.30	3.94	9.35	6.83	15.43	4.51	-2.52	4.19	.18	1.80	.16	4	7.68	7.17			
95	162	257	98.83	-1.64	97.19	5.18	9.13	6.93	15.76	3.37	-4.22	4.07	.18	1.73	.16	4	7.69	7.18			
95	163	258	103.07	-1.54	101.53	3.73	8.91	7.17	16.09	5.06	-3.07	3.95	.18	1.67	.16	4	7.71	7.19			
95	164	259	106.06	-1.43	104.63	4.96	8.70	7.25	16.42	3.91	-4.76	3.83	.18	1.60	.16	4	7.72	7.19			
95	165	260	110.48	-1.30	109.18	3.52	8.49	7.50	16.75	5.60	-3.61	3.71	.18	1.52	.16	4	7.73	7.20			
95	166	261	113.66	-1.16	112.50	4.75	8.27	7.58	17.07	4.46	-5.28	3.60	.18	1.47	.14	4	7.74	7.21			
95	167	262	118.26	-1.02	117.24	3.32	8.08	7.83	17.41	6.12	-4.15	3.46	.18	1.41	.14	4	7.76	7.21			
95	168	263	121.62	-.86	120.76	4.55	7.88	7.92	17.73	4.97	-5.82	3.34	.18	1.35	.14	4	7.77	7.22			
95	169	264	126.41	-.69	125.72	3.12	7.67	8.15	18.04	6.65	-4.67	3.23	.17	1.29	.14	4	7.78	7.22			
95	170	265	129.96	-.51	129.45	4.34	7.46	8.23	18.35	5.51	-6.32	3.11	.17	1.23	.14	4	7.79	7.23			
95	171	266	134.91	-.33	134.58	2.93	7.28	8.47	18.68	7.15	-5.18	2.97	.17	1.17	.14	4	7.81	7.24			
95	172	267	138.64	-.13	138.51	4.15	7.08	8.55	18.96	6.01	-6.80	2.86	.16	1.11	.14	4	7.82	7.24			
95	173	268	143.77	.06	143.83	2.75	6.90	8.77	19.25	7.64	-5.59	2.73	.16	1.04	.14	4	7.83	7.25			
95	174	269	147.67	.24	147.91	4.00	6.74	8.80	19.29	6.48	-6.63	2.59	.14	.98	.14	4	7.84	7.25			
95	175	270	152.97	.14	153.11	2.87	6.86	8.72	19.13	7.81	-4.98	2.19		.93	.12	4	7.85	7.26			
95	176	271	157.04	-.46	156.58	4.60	7.47	8.80	19.43	5.94	-6.58	1.53		.88	.12	4	7.87	7.27			
95	177	272	162.51	-1.08	161.43	3.23	7.82	9.03	19.73	7.45	-5.41	1.35		.83	.12	4	7.88	7.27			
95	178	273	166.74	-1.73	165.01	4.48	7.71	9.12	20.05	6.27	-7.01	1.15		.78	.12	4	7.89	7.28			
95	179	274	172.37	-2.40	169.97	3.12	7.59	9.34	20.35	7.87	-5.84	.96		.73	.12	4	7.90	7.29			
95	180	275	176.77	-3.09	173.68	4.37	7.48	9.42	20.65	6.70	-7.42	.77		.68	.12	4	7.92	7.29			
95	181	276	182.56	-3.81	178.75	3.00	7.36	9.64	20.96	8.28	-6.26	.58		.62	.12	4	7.93	7.30			
95	182	277	187.12	-4.55	182.57	4.25	7.25	9.73	21.26	7.11	-7.84	.39		.57	.12	4	7.94	7.30			
95	183	278	193.06	-5.31	187.75	2.89	7.14	9.95	21.56	8.68	-6.68	.20		.53	.10	4	7.95	7.31			
95	184	279	197.79	-6.09	191.70	4.13	7.02	10.02	21.85	7.53	-9.90	.02		3.16	.19	ALP	7.96	7.32			
95	185	280	203.88	-5.23	198.65	1.12	5.25	10.25	22.15	10.76	-8.74	1.49		2.75	.19	ALP	7.98	7.32			
95	186	281	208.76	-4.41	204.35	2.37	3.49	10.32	22.45	9.59	-10.30	2.95		2.36	.19	ALP	7.99	7.33			
95	187	282	215.00	-3.61	211.39	1.03	3.40	10.55	22.75	11.15	-9.13	2.74		1.98	.19	ALP	8.00	7.33			
95	188	283	220.03	-2.84	217.19	2.27	3.30	10.62	23.04	9.99	-10.68	2.54		1.61	.19	ALP	8.01	7.34			
95	189	284	226.41	-2.11	224.30	.95	3.23	10.85	23.36	11.52	-9.53	2.31		1.25	.19	ALP	8.02	7.35			
95	190	285	231.59	-1.40	230.19	2.19	3.13	10.93	23.65	10.36	-11.08	2.11		.91	.19	ALP	8.03	7.35			
95	191	286	238.12	-.71	237.41	.86	3.04	11.15	23.94	11.91	-9.91	1.91		.57	.19	ALP	8.05	7.36			
95	192	287	243.45	-.06	243.39	2.09	2.95	11.22	24.22	10.75	-11.18	1.71		.26	.20	ALP	8.06	7.37			
95	193	288	250.12	-.05	250.07	1.40	3.48	11.80	25.14	11.69	-9.75	.88	.18	-.03	.24	ALP	8.07	7.37			
95	194	289	255.59	-.35	255.24	2.90	4.29	11.87	25.57	10.56	-11.32	-.22	.18	-.25	.27	ALP	8.08	7.38			
95	195	290	262.40	-.63	261.77	1.54	4.44	12.08	25.85	12.12	-10.20	-1.28	.19	-.42	.28	ALP	8.09	7.38			
95	196	291	268.00	-.91	267.09	2.74	4.29	12.16	26.14	10.99	-11.77	-1.57	.19	-.58	.29	ALP	8.10	7.39			
95	197	292	274.95	-1.17	273.78	1.39	4.13	12.37	26.42	12.55	-10.65	-1.69	.19	-.72	.29	ALP	8.12	7.40			
95	198	293	280.70	-1.41	279.29	2.57	3.95	12.43	26.68	11.44	-12.19	-1.79	.19	-.86	.30	ALP	8.13	7.40			
95	199	294	287.77	-1.65	286.12	1.23	3.81	12.65	26.97	12.98	-11.08	-1.92	.19	-.98	.30	ALP	8.14	7.41			
95	200	295	293.65	-1.88	291.77	2.42	3.65	12.72	27.24	11.86	-12.63	-2.04	.19	-1.11	.30	ALP	8.15	7.42			
95	201	296	300.86	-2.09	298.77	1.08	3.50	12.92	27.51	13.41	-11.51	-2.16	.19	-1.23	.31	ALP	8.16	7.42			
95	202	297	306.88	-2.30	304.58	2.26	3.34	12.98	27.78	12.29	-13.05	-2.28	.19	-1.34	.31	ALP	8.17	7.43			
95	203	298	314.21	-2.49	311.72	.93	3.19	13.19	28.05	13.82	-11.93	-2.40	.19	-1.46	.31	ALP	8.18	7.43			
95	204	299	320.36	-2.67	317.69	2.11	3.03	13.25	28.31	12.72	-13.46	-2.51	.19	-1.57	.31	ALP	8.20	7.44			
95	205	300	327.82	-2.84	324.98	.78	2.89	13.46	28.58	14.24	-12.35	-2.64	.19	-1.68	.31	ALP	8.21	7.45			
95	206	301	334.09	-3.00	331.09	1.96	2.74	13.52	28.84	13.13	-13.87	-2.75	.19	-1.78	.31	ALP	8.22	7.45			
95	207	302	341.67	-3.15	338.52	.64	2.60	13.73	29.11	14.64	-12.77	-2.88	.19	-1.89	.31	ALP	8.23	7.46			
95	208	303	348.07	-3.29	344.78	1.81	2.45	13.79	29.37	13.53	-14.28	-3.00	.19	-1.99	.31	ALP	8.24	7.47			
95	209	304	355.78	-3.41	352.37	.49	2.30	13.98	29.62	15.06	-13.16	-3.11	.19	-2.09	.31	ALP	8.25	7.47			
95	210	305	362.30	-3.53	358.77	1.67	2.16	14.05	29.88	13.95	-14.67	-3.23	.19	-2.19	.31	ALP	8.26	7.48			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
96	105	201	104.55	-1.74	102.81	11.63	25.16	-2.91	-6.94	-15.96	14.94	10.95	.20	1.63	.14	4	6.90	6.86			
96	106	202	99.42	-1.66	97.76	13.12	24.75	-2.60	-6.51	-17.13	12.94	10.92	.19	1.71	.16	4	6.91	6.86			
96	107	203	96.16	-1.56	94.60	11.23	24.35	-2.49	-6.08	-15.13	14.12	10.88	.19	1.78	.16	4	6.93	6.87			
96	108	204	91.39	-1.45	89.94	12.73	23.96	-2.17	-5.64	-16.31	12.12	10.84	.19	1.86	.16	4	6.94	6.88			
96	109	205	88.49	-1.32	87.17	10.85	23.57	-2.06	-5.22	-14.31	13.31	10.80	.19	1.93	.16	4	6.96	6.88			
96	110	206	84.09	-1.18	82.91	12.33	23.18	-1.76	-4.80	-15.48	11.34	10.76	.19	1.99	.16	4	6.97	6.89			
96	111	207	81.53	-1.03	80.50	10.48	22.81	-1.64	-4.36	-13.51	12.51	10.70	.19	2.05	.16	4	6.99	6.89			
96	112	208	77.48	-.86	76.62	11.96	22.43	-1.33	-3.95	-14.67	10.55	10.66	.19	2.11	.16	4	7.00	6.90			
96	113	209	75.27	-.69	74.58	10.11	22.07	-1.23	-3.53	-12.72	11.73	10.60	.19	2.17	.16	4	7.02	6.91			
96	114	210	71.56	-.50	71.06	11.59	21.70	-.92	-3.11	-13.89	9.79	10.54	.18	2.22	.16	4	7.04	6.91			
96	115	211	69.68	-.30	69.38	9.75	21.34	-.82	-2.71	-11.94	10.98	10.48	.18	2.27	.16	4	7.05	6.92			
96	116	212	66.31	-.09	66.22	11.23	20.99	-.53	-2.32	-13.12	9.07	10.43	.17	2.31	.16	4	7.07	6.92			
96	117	213	64.75	.12	64.87	9.42	20.65	-.42	-1.93	-11.19	10.28	10.35	.17	2.35	.16	4	7.08	6.93			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
96	118	214	61.71	.32	62.03	10.91	20.33	-.15	-1.58	-12.39	8.47	10.28	.16	2.40	.18	4	7.10	6.93			
96	119	215	60.46	.48	60.94	9.15	20.07	-.10	-1.37	-10.54	10.16	10.15	.14	2.45	.18	4	7.11	6.94			
96	120	216	57.74	.45	58.19	10.83	19.98	-.11	-1.53	-11.94	8.87	9.90	.06	2.49	.18	4	7.13	6.95			
96	121	217	56.81	-.19	56.62	9.64	20.47	-.02	-1.13	-10.78	10.10	9.20		2.52	.18	4	7.14	6.95			
96	122	218	54.39	-.86	53.53	11.16	20.80	.29	-.72	-12.18	8.24	9.02		2.56	.18	4	7.15	6.96			
96	123	219	53.76	-1.57	52.19	9.41	20.57	.39	-.31	-10.32	9.45	8.85		2.59	.18	4	7.17	6.96			
96	124	220	51.66	-2.30	49.36	10.91	20.31	.68	.08	-11.52	7.61	8.70		2.61	.18	4	7.18	6.97			
96	125	221	51.32	-3.07	48.25	9.17	20.09	.79	.49	-9.68	8.81	8.52		2.64	.18	4	7.20	6.98			
96	126	222	49.51	-3.86	45.65	10.67	19.85	1.08	.89	-10.88	5.29	8.36		2.65	.18	4	7.21	6.98			
96	127	223	49.46	-2.99	46.47	7.26	17.92	1.19	1.29	-7.36	6.51	9.88		2.67	.18	4	7.23	6.99			
96	128	224	47.94	-2.17	45.77	8.76	16.03	1.48	1.71	-8.58	4.68	11.39		2.68	.18	4	7.24	6.99			
96	129	225	48.17	-1.38	46.79	7.06	15.82	1.59	2.11	-6.76	5.89	11.18		2.69	.18	4	7.26	7.00			
96	130	226	46.94	-.62	46.32	8.55	15.60	1.87	2.50	-7.95	4.09	11.00		2.69	.18	4	7.27	7.01			
96	131	227	47.44	.09	47.53	6.86	15.41	1.99	2.91	-6.15	5.33	10.78		2.69	.18	4	7.28	7.01			
96	132	228	46.49	.52	47.01	8.60	15.45	2.48	3.55	-7.60	3.93	10.35	.12	2.69	.18	4	7.30	7.02			
96	133	229	47.26	.40	47.66	7.42	16.02	2.72	4.37	-6.06	5.16	9.38	.15	2.69	.18	4	7.31	7.02			
96	134	230	46.58	.19	46.77	8.96	16.38	3.02	4.85	-7.26	3.33	8.37	.16	2.68	.18	4	7.33	7.03			
96	135	231	47.61	-.03	47.58	7.26	16.22	3.14	5.27	-5.44	4.50	7.70	.17	2.67	.18	4	7.34	7.04			
96	136	232	47.20	-.25	46.95	8.71	15.97	3.42	5.66	-6.59	2.69	7.49	.17	2.65	.18	4	7.35	7.04			
96	137	233	48.49	-.46	48.03	6.99	15.70	3.52	6.05	-4.77	3.85	7.33	.17	2.63	.18	4	7.37	7.05			
96	138	234	48.33	-.67	47.66	8.43	15.43	3.80	6.44	-5.93	2.03	7.20	.18	2.61	.18	4	7.38	7.05			
96	139	235	49.87	-.86	49.01	6.73	15.16	3.91	6.82	-4.12	3.19	7.08	.18	2.59	.18	4	7.40	7.06			
96	140	236	49.97	-1.04	48.93	8.15	14.88	4.17	7.19	-5.27	1.40	6.98	.18	2.56	.18	4	7.41	7.07	47.99	-1.98	-.94
96	141	237	51.75	-1.20	50.55	6.46	14.61	4.28	7.56	-3.47	2.56	6.87	.18	2.53	.18	4	7.42	7.07	49.18	-2.57	-1.37
96	142	238	52.10	-1.36	50.74	7.88	14.34	4.54	7.93	-4.62	.77	6.77	.18	2.50	.18	4	7.44	7.08	49.42	-2.68	-1.32
96	143	239	54.12	-1.50	52.62	6.19	14.07	4.64	8.30	-2.83	1.92	6.66	.18	2.47	.18	4	7.45	7.08	51.11	-3.01	-1.51
96	144	240	54.71	-1.63	53.08	7.61	13.80	4.91	8.67	-3.98	.14	6.56	.18	2.43	.18	4	7.46	7.09	51.72	-2.99	-1.36
96	145	241	56.97	-1.74	55.23	5.93	13.54	5.00	9.03	-2.19	1.31	6.46	.18	2.39	.18	4	7.48	7.10	53.72	-3.25	-1.51
96	146	242	57.79	-1.85	55.94	7.35	13.29	5.27	9.40	-3.36	-.48	6.34	.18	2.34	.18	4	7.49	7.10	54.83	-2.96	-1.11
96	147	243	60.28	-1.93	58.35	5.68	13.02	5.36	9.75	-1.57	.69	6.25	.18	2.30	.16	4	7.50	7.11	57.20	-3.08	-1.15
96	148	244	61.34	-2.01	59.33	7.09	12.76	5.62	10.11	-2.73	-1.07	6.14	.18	2.26	.16	4	7.52	7.11	58.47	-2.87	-.86
96	149	245	64.05	-2.07	61.98	5.42	12.51	5.71	10.46	-.96	.09	6.03	.18	2.22	.16	4	7.53	7.12	61.02	-3.03	-.96
96	150	246	65.33	-2.13	63.20	6.84	12.27	5.97	10.83	-2.12	-1.67	5.92	.18	2.18	.16	4	7.54	7.13	62.64	-2.69	-.56
96	151	247	68.26	-2.16	66.10	5.18	12.02	6.07	11.17	-.36	-.51	5.81	.18	2.13	.16	4	7.56	7.13	65.56	-2.70	-.54
96	152	248	69.77	-2.19	67.58	6.59	11.77	6.32	11.52	-1.51	-2.25	5.71	.18	2.08	.16	4	7.57	7.14	67.42	-2.35	-.16
96	153	249	72.91	-2.20	70.71	4.95	11.53	6.41	11.87	.23	-1.10	5.59	.18	2.04	.16	4	7.58	7.14	70.78	-2.13	.07
96	154	250	74.64	-2.20	72.44	6.34	11.28	6.66	12.21	-.91	-2.82	5.49	.18	1.99	.16	4	7.60	7.15	73.07	-1.57	.63
96	155	251	77.99	-2.19	75.80	4.71	11.05	6.76	12.56	.81	-1.68	5.37	.18	1.93	.16	4	7.61	7.16			
96	156	252	79.93	-2.17	77.76	6.11	10.82	7.01	12.91	-.33	-3.40	5.26	.18	1.88	.16	4	7.62	7.16			
96	157	253	83.48	-2.13	81.35	4.49	10.59	7.10	13.25	1.39	-2.25	5.14	.18	1.82	.16	4	7.64	7.17			
96	158	254	85.63	-2.09	83.54	5.88	10.36	7.35	13.60	.24	-3.97	5.03	.18	1.77	.16	4	7.65	7.17			
96	159	255	89.39	-2.03	87.36	4.26	10.13	7.43	13.93	1.95	-2.82	4.91	.18	1.71	.16	4	7.66	7.18			
96	160	256	91.74	-1.96	89.78	5.65	9.91	7.68	14.27	.81	-4.52	4.80	.18	1.65	.16	4	7.67	7.19			
96	161	257	95.70	-1.88	93.82	4.03	9.69	7.76	14.60	2.51	-3.37	4.68	.18	1.58	.16	4	7.69	7.19			
96	162	258	98.25	-1.78	96.47	5.42	9.46	8.01	14.93	1.38	-5.06	4.57	.18	1.53	.14	4	7.70	7.20			
96	163	259	102.39	-1.68	100.71	3.83	9.25	8.10	15.27	3.06	-3.92	4.44	.18	1.48	.14	4	7.71	7.20			
96	164	260	105.14	-1.56	103.58	5.21	9.03	8.34	15.60	1.93	-5.60	4.33	.18	1.43	.14	4	7.72	7.21			
96	165	261	109.48	-1.43	108.05	3.61	8.81	8.42	15.92	3.62	-4.44	4.22	.18	1.37	.14	4	7.74	7.22			
96	166	262	112.42	-1.30	111.12	4.99	8.61	8.66	16.25	2.47	-6.12	4.10	.18	1.32	.14	4	7.75	7.22			
96	167	263	116.93	-1.15	115.78	3.41	8.41	8.75	16.58	4.14	-4.99	3.97	.18	1.26	.14	4	7.76	7.23			
96	168	264	120.06	-.99	119.07	4.79	8.19	8.99	16.90	3.01	-6.65	3.85	.18	1.21	.14	4	7.77	7.24			
96	169	265	124.76	-.82	123.94	3.21	7.99	9.07	17.22	4.67	-5.50	3.73	.18	1.15	.14	4	7.79	7.24			
96	170	266	128.07	-.64	127.43	4.58	7.79	9.30	17.54	3.54	-7.16	3.61	.17	1.09	.14	4	7.80	7.25			
96	171	267	132.95	-.45	132.50	3.01	7.58	9.38	17.85	5.20	-6.01	3.49	.17	1.03	.14	4	7.81	7.25			
96	172	268	136.44	-.26	136.18	4.38	7.40	9.61	18.16	4.05	-7.65	3.37	.17	.98	.12	4	7.82	7.26			
96	173	269	141.49	-.05	141.44	2.82	7.20	9.68	18.45	5.70	-6.47	3.25	.16	.93	.12	4	7.84	7.27			
96	174	270	145.16	.14	145.30	4.20	7.03	9.89	18.70	4.54	-7.81	3.11	.15	.88	.12	4	7.85	7.27			
96	175	271	150.38	.27	150.65	2.73	6.93	9.75	18.47	6.10	-5.93	2.91	.10	.84	.12	4	7.86	7.28			
96	176	272	154.22	-.24	153.98	4.74	7.47	9.89	18.69	4.26	-7.44	2.14		.79	.12	4	7.87	7.28			
96	177	273	159.60	-.87	158.73	3.31	8.06	9.98	19.01	5.54	-6.28	1.76		.74	.12	4	7.89	7.29			
96	178	274	163.62	-1.51	162.11	4.70	8.01	10.20	19.30	4.39	-7.86	1.59		.69	.12	4	7.90	7.30			
96	179	275	169.16	-2.18	166.98	3.20	7.90	10.28	19.62	5.97	-6.70	1.39		.64	.12	4	7.91	7.30			
96	180	276	173.34	-2.87	170.47	4.59	7.78	10.50	19.92	4.82	-8.28	1.21		.59	.12	4	7.92	7.31			
96	181	277	179.05	-3.59	175.46	3.08	7.66	10.58	20.22	6.40	-7.12	1.02		.55	.10	4	7.93	7.31			
96	182	278	183.39	-4.32	179.07	4.46	7.54	10.80	20.52	5.24	-8.69	.84		.51	.10	4	7.95	7.32			
96	183	279	189.25	-5.08	184.17	2.97	7.43	10.88	20.82	6.81	-7.53	.64		2.71	.19	ALP	7.96	7.33			
96	184	280	193.76	-5.86	187.90	4.34	7.31	11.09	21.11	5.66	-10.75	.47		3.03	.19	ALP	7.97	7.33			
96	185	281	199.77	-5.01	194.76	1.21	5.55	11.17	21.42	8.87	-9.59	1.92		2.62	.19	ALP	7.98	7.34			
96	186	282	204.43	-4.19	200.24	2.59	3.80	11.39	21.72	7.71	-11.15	3.38		2.23	.19	ALP	7.99	7.35			
96	187	283	210.60	-3.39	207.21	1.11	3.69	11.47	22.01	9.28	-9.97	3.18		1.85	.19	ALP	8.01	7.35			
96	188	284	215.41	-2.63	212.78	2.49	3.61	11.69	22.32	8.11	-11.53	2.97		1.48	.19	ALP	8.02	7.36			
96	189	285	221.72	-1.89	219.83	1.02	3.52	11.77	22.62	9.66	-10.37	2.76		1.12	.19	ALP	8.03	7.36			
96	190	286	226.69	-1.18	225.51	2.40	3.41	11.98	22.90	8.52	-11.90	2.56		.78	.19	ALP	8.04	7.37			
96	191	287	233.14	-.50	232.64	.94	3.33	12.06	23.20	10.05	-10.75	2.35		.45	.19	ALP	8.05	7.38			
96	192	288	238.26	.12	238.38	2.33	3.27	12.30	23.52	8.87	-11.68	2.12	.12	.13	.19	ALP	8.06	7.38			
96	193	289	244.86	-.17	244.69	1.76	4.09	12.67	24.46		-10.55	1.00	.19	-.15	.24	ALP	8.08	7.39			
96	194	290	250.11	-.47	249.64	3.11	4.88	12.88	24.76	8.66	-12.12	-.11	.19	-.36	.27	ALP	8.09	7.39			
96	195	291	256.85	-.75	256.10	1.62	4.73	12.95	25.04	10.23	-11.00	-.90	.19	-.53	.28	ALP	8.10	7.40			
96	196	292	262.25	-1.02	261.23	2.94	4.56	13.16	25.32	9.12	-12.55	-1.02	.19	-.68	.29	ALP	8.11	7.41			
96	197	293	269.13	-1.28	267.85	1.45	4.39	13.22	25.59	10.68	-11.43	-1.14	.19	-.82	.29	ALP	8.12	7.41			
96	198	294	274.67	-1.53	273.14	2.77	4.23	13.43	25.87	9.56	-12.98	-1.25	.19	-.96	.30	ALP	8.13	7.42			
96	199	295	281.67	-1.76	279.91	1.30	4.08	13.51	26.15	11.11	-11.87	-1.38	.19	-1.08	.30	ALP	8.15	7.43			
96	200	296	287.35	-1.99	285.36	2.62	3.92	13.70	26.42	10.00	-13.41	-1.49	.19	-1.21	.30	ALP	8.16	7.43			
96	201	297	294.49	-2.20	292.29	1.15	3.76	13.77	26.69	11.55	-12.29	-1.61	.19	-1.33	.31	ALP	8.17	7.44			
96	202	298	300.30	-2.40	297.90	2.46	3.61	13.97	26.96	10.44	-13.82	-1.73	.19	-1.44	.31	ALP	8.18	7.44			
96	203	299	307.57	-2.60	304.97	.99	3.46	14.04	27.23	11.96	-12.72	-1.86	.19	-1.55	.31	ALP	8.19	7.45			
96	204	300	313.51	-2.78	310.73	2.31	3.31	14.24	27.50	10.85	-14.25	-1.97	.19	-1.66	.31	ALP	8.20	7.46			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
96	205	301	320.91	-2.94	317.97	.84	3.15	14.30	27.76	12.40	-13.12	-2.08	.19	-1.77	.31	ALP	8.21	7.46			
96	206	302	326.98	-3.10	323.88	2.16	3.00	14.50	28.02	11.28	-14.65	-2.20	.19	-1.87	.31	ALP	8.22	7.47			
96	207	303	334.50	-3.25	331.25	.70	2.85	14.57	28.29	12.81	-13.54	-2.32	.19	-1.98	.31	ALP	8.24	7.47			
96	208	304	340.70	-3.39	337.31	2.01	2.71	14.76	28.55	11.70	-15.05	-2.44	.19	-2.08	.31	ALP	8.25	7.48			
96	209	305	348.34	-3.51	344.83	.56	2.56	14.83	28.81	13.22	-13.94	-2.56	.19	-2.17	.31	ALP	8.26	7.49			
96	210	306	354.66	-3.63	351.03	1.86	2.42	15.03	29.08	12.11	-15.45	-2.68	.19	-2.27	.31	ALP	8.27	7.49			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
97	114	211	82.00	-.68	81.32	11.70	22.12	-2.97	-3.89	-12.92	11.94	10.90	.19	1.84	.16	4	7.04	6.93			
97	115	212	79.81	-.47	79.34	10.06	21.76	-2.67	-3.49	-10.98	13.13	10.85	.18	1.89	.16	4	7.06	6.94			
97	116	213	76.32	-.26	76.06	11.35	21.41	-2.56	-3.08	-12.16	11.20	10.79	.18	1.94	.16	4	7.07	6.94			
97	117	214	74.46	-.04	74.42	9.72	21.06	-2.27	-2.69	-10.23	12.40	10.72	.17	1.99	.16	4	7.09	6.95			
97	118	215	71.30	.18	71.48	11.01	20.73	-2.16	-2.32	-11.42	10.54	10.65	.17	2.03	.16	4	7.10	6.95			
97	119	216	69.75	.38	70.13	9.42	20.43	-1.89	-2.00	-9.55	11.94	10.55	.15	2.07	.16	4	7.12	6.96			
97	120	217	66.92	.49	67.41	10.80	20.21	-1.93	-2.05	-10.83	10.79	10.40	.11	2.10	.16	4	7.13	6.97			
97	121	218	65.68	.02	65.70	9.77	20.58	-1.80	-1.81	-9.58	12.17	9.72		2.14	.16	4	7.15	6.97			
97	122	219	63.16	-.65	62.51	11.27	21.04	-1.69	-1.41	-11.19	10.32	9.30		2.17	.16	4	7.16	6.98			
97	123	220	62.23	-1.35	60.88	9.71	20.97	-1.39	-1.01	-9.34	11.53	9.14		2.19	.16	4	7.18	6.98			
97	124	221	60.02	-2.09	57.93	11.02	20.73	-1.29	-.61	-10.54	9.68	8.98		2.22	.16	4	7.19	6.99			
97	125	222	59.38	-2.85	56.53	9.47	20.49	-.99	-.20	-8.71	10.88	8.81		2.24	.16	4	7.21	6.99			
97	126	223	57.47	-3.64	53.83	10.78	20.24	-.89	.19	-9.90	7.36	8.66		2.25	.16	4	7.22	7.00			
97	127	224	57.12	-2.78	54.34	7.55	18.34	-.59	.60	-6.40	8.56	10.16		2.27	.16	4	7.24	7.01			
97	128	225	55.50	-1.95	53.55	8.87	16.42	-.48	.99	-7.60	6.75	11.69		2.28	.16	4	7.25	7.01			
97	129	226	55.44	-1.16	54.28	7.34	16.21	-.19	1.39	-5.78	7.96	11.49		2.29	.16	4	7.26	7.02			
97	130	227	54.10	-.41	53.69	8.66	16.00	-.08	1.79	-6.99	6.15	11.30		2.30	.16	4	7.28	7.02			
97	131	228	54.32	.30	54.62	7.14	15.80	.21	2.19	-5.19	7.61	11.10		2.30	.16	4	7.29	7.03			
97	132	229	53.26	.46	53.72	8.96	16.11	.58	3.06	-6.87	6.06	10.39	.13	2.30	.16	4	7.31	7.04			
97	133	230	53.74	.28	54.02	7.77	16.74	.92	3.64	-5.18	7.25	9.36	.16	2.30	.16	4	7.32	7.04			
97	134	231	52.96	.06	53.02	9.08	16.84	1.04	4.06	-6.35	5.43	8.39	.17	2.30	.16	4	7.33	7.05			
97	135	232	53.71	-.17	53.54	7.55	16.63	1.33	4.47	-4.54	6.59	8.03	.17	2.29	.16	4	7.35	7.05			
97	136	233	53.19	-.39	52.80	8.81	16.36	1.44	4.86	-5.69	4.77	7.87	.17	2.28	.16	4	7.36	7.06			
97	137	234	54.20	-.61	53.59	7.28	16.09	1.72	5.25	-3.88	5.92	7.73	.18	2.27	.16	4	7.38	7.07			
97	138	235	53.94	-.81	53.13	8.53	15.81	1.83	5.63	-5.03	4.12	7.62	.18	2.26	.16	4	7.39	7.07			
97	139	236	55.20	-1.00	54.20	7.00	15.53	2.11	6.01	-3.22	5.27	7.51	.18	2.24	.16	4	7.40	7.08			
97	140	237	55.20	-1.18	54.02	8.25	15.25	2.20	6.37	-4.37	3.47	7.42	.18	2.22	.16	4	7.42	7.08			
97	141	238	56.71	-1.35	55.36	6.73	14.98	2.48	6.75	-2.58	4.62	7.31	.18	2.20	.16	4	7.43	7.09	54.25	-2.46	-1.11
97	142	239	56.95	-1.50	55.45	7.98	14.71	2.58	7.12	-3.73	2.83	7.21	.18	2.18	.16	4	7.44	7.10	54.30	-2.65	-1.15
97	143	240	58.71	-1.64	57.07	6.46	14.43	2.84	7.48	-1.94	3.99	7.11	.18	2.15	.16	4	7.46	7.10	55.72	-2.99	-1.35
97	144	241	59.19	-1.77	57.42	7.71	14.17	2.95	7.86	-3.10	2.20	7.00	.18	2.13	.16	4	7.47	7.11	56.12	-3.07	-1.30
97	145	242	61.18	-1.89	59.29	6.20	13.92	3.22	8.23	-1.33	3.34	6.89	.18	2.10	.16	4	7.48	7.11	57.83	-3.35	-1.46
97	146	243	61.91	-1.99	59.92	7.45	13.65	3.31	8.58	-2.48	1.58	6.80	.18	2.07	.16	4	7.50	7.12	58.70	-3.21	-1.22
97	147	244	64.13	-2.07	62.06	5.94	13.38	3.58	8.93	-.70	2.73	6.70	.18	2.03	.16	4	7.51	7.13	60.74	-3.39	-1.32
97	148	245	65.09	-2.15	62.94	7.19	13.13	3.68	9.30	-1.86	.97	6.59	.18	2.00	.16	4	7.52	7.13	61.84	-3.25	-1.10
97	149	246	67.54	-2.21	65.33	5.69	12.87	3.93	9.65	-.10	2.12	6.49	.18	1.96	.16	4	7.54	7.14	64.24	-3.30	-1.09
97	150	247	68.73	-2.26	66.47	6.93	12.61	4.03	10.00	-1.24	.37	6.39	.18	1.92	.16	4	7.55	7.14	65.50	-3.23	-.97
97	151	248	71.39	-2.30	69.09	5.45	12.38	4.30	10.36	.49	1.51	6.27	.18	1.88	.16	4	7.56	7.15	68.01	-3.38	-1.08
97	152	249	72.81	-2.32	70.49	6.68	12.12	4.38	10.70	-.64	-.22	6.18	.18	1.83	.16	4	7.58	7.16	69.87	-2.94	-.62
97	153	250	75.69	-2.34	73.35	5.20	11.89	4.64	11.06	1.08	.92	6.05	.18	1.79	.16	4	7.59	7.16	72.97	-2.72	-.38
97	154	251	77.32	-2.34	74.98	6.44	11.65	4.74	11.41	-.07	-.82	5.94	.18	1.74	.16	4	7.60	7.17	75.28	-2.04	.30
97	155	252	80.42	-2.32	78.10	4.96	11.40	4.99	11.74	1.67	.34	5.84	.18	1.69	.16	4	7.62	7.17	78.56	-1.86	.46
97	156	253	82.26	-2.30	79.96	6.20	11.17	5.09	12.10	.52	-1.39	5.72	.18	1.64	.16	4	7.63	7.18			
97	157	254	85.57	-2.26	83.31	4.73	10.93	5.33	12.43	2.24	-.24	5.62	.18	1.59	.14	4	7.64	7.19			
97	158	255	87.62	-2.22	85.40	5.97	10.71	5.43	12.78	1.09	-1.96	5.50	.18	1.55	.14	4	7.66	7.19			
97	159	256	91.13	-2.16	88.97	4.50	10.48	5.68	13.12	2.80	-.82	5.39	.18	1.50	.14	4	7.67	7.20			
97	160	257	93.39	-2.08	91.31	5.74	10.24	5.77	13.44	1.67	-2.51	5.28	.18	1.46	.14	4	7.68	7.20			
97	161	258	97.09	-2.00	95.09	4.29	10.03	6.02	13.79	3.36	-1.38	5.16	.18	1.41	.14	4	7.69	7.21			
97	162	259	99.56	-1.91	97.65	5.51	9.80	6.10	14.12	2.22	-3.07	5.05	.18	1.36	.14	4	7.71	7.22			
97	163	260	103.45	-1.80	101.65	4.07	9.59	6.36	14.45	3.90	-1.93	4.93	.18	1.32	.14	4	7.72	7.22			
97	164	261	106.12	-1.68	104.44	5.29	9.35	6.44	14.77	2.78	-3.60	4.83	.18	1.27	.14	4	7.73	7.23			
97	165	262	110.20	-1.56	108.64	3.86	9.16	6.69	15.12	4.44	-2.48	4.69	.18	1.22	.14	4	7.74	7.23			
97	166	263	113.06	-1.42	111.64	5.08	8.93	6.77	15.43	3.31	-4.15	4.59	.18	1.16	.14	4	7.76	7.24			
97	167	264	117.33	-1.27	116.06	3.65	8.73	7.01	15.76	4.98	-3.01	4.46	.18	1.11	.14	4	7.77	7.25			
97	168	265	120.37	-1.11	119.26	4.87	8.52	7.10	16.09	3.84	-4.68	4.34	.18	1.06	.14	4	7.78	7.25			
97	169	266	124.83	-.94	123.89	3.45	8.32	7.34	16.41	5.50	-3.54	4.22	.18	1.00	.12	4	7.79	7.26			
97	170	267	128.06	-.76	127.30	4.66	8.11	7.42	16.72	4.37	-5.20	4.11	.18	.96	.12	4	7.81	7.26			
97	171	268	132.70	-.57	132.13	3.24	7.91	7.65	17.04	6.02	-4.06	3.99	.17	.92	.12	4	7.82	7.27			
97	172	269	136.11	-.37	135.74	4.46	7.71	7.73	17.34	4.89	-5.69	3.87	.17	.88	.12	4	7.83	7.28			
97	173	270	140.92	-.16	140.76	3.05	7.51	7.97	17.65	6.53	-4.54	3.75	.17	.83	.12	4	7.84	7.28			
97	174	271	144.50	.05	144.55	4.28	7.33	8.05	17.93	5.38	-6.09	3.62	.16	.79	.12	4	7.86	7.29			
97	175	272	149.49	.23	149.72	2.90	7.18	8.22	17.97	6.98	-4.26	3.46	.13	.74	.12	4	7.87	7.29			
97	176	273	153.25	-.06	153.19	4.60	7.50	8.08	17.97	5.34	-5.55	2.86		.69	.12	4	7.88	7.30			
97	177	274	158.40	-.68	157.72	3.54	8.14	8.31	18.28	6.41	-4.38	2.18		.65	.12	4	7.89	7.31			
97	178	275	162.33	-1.33	161.00	4.79	8.33	8.39	18.59	5.24	-5.98	1.99		.60	.12	4	7.90	7.31			
97	179	276	167.65	-2.00	165.65	3.42	8.21	8.61	18.90	6.83	-4.82	1.80		.56	.10	4	7.92	7.32			
97	180	277	171.75	-2.69	169.06	4.66	8.09	8.69	19.20	5.67	-6.40	1.62		.52	.10	4	7.93	7.33			
97	181	278	177.23	-3.40	173.83	3.30	7.97	8.92	19.50	7.25	-5.24	1.44		1.97	.19	ALP	7.94	7.33			
97	182	279	181.49	-4.13	177.36	4.54	7.85	9.00	19.80	6.09	-6.81	1.26		2.27	.19	ALP	7.95	7.34			
97	183	280	187.13	-4.89	182.24	3.19	7.73	9.22	20.10	7.66	-5.65	1.07		2.58	.19	ALP	7.96	7.34			
97	184	281	191.55	-5.67	185.88	4.43	7.62	9.30	20.40	6.50	-8.88	.88		2.90	.19	ALP	7.98	7.35			
97	185	282	197.35	-4.82	192.53	1.43	5.85	9.52	20.69	9.72	-7.71	2.35		2.50	.19	ALP	7.99	7.36			
97	186	283	201.93	-4.00	197.93	2.67	4.10	9.60	21.00	8.56	-9.27	3.81		2.11	.19	ALP	8.00	7.36			
97	187	284	207.87	-3.21	204.66	1.34	4.01	9.83	21.30	10.11	-8.12	3.59		1.73	.19	ALP	8.01	7.37			
97	188	285	212.61	-2.45	210.16	2.57	3.91	9.91	21.60	8.95	-9.67	3.39		1.36	.19	ALP	8.02	7.37			
97	189	286	218.71	-1.71	217.00	1.24	3.81	10.12	21.89	10.51	-8.50	3.19		1.01	.19	ALP	8.04	7.38			
97	190	287	223.60	-1.00	222.60	2.47	3.71	10.20	22.18	9.36	-10.04	2.99		.67	.19	ALP	8.05	7.39			
97	191	288	229.84	-.33	229.51	1.15	3.63	10.42	22.48	10.89	-8.87	2.78		.34	.18	ALP	8.06	7.39			
97	192	289	234.87	UNSTABLE AGAINST FISSION																	

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
97	193	290	241.26	-.28	240.98		4.67	10.99	23.66		-8.67	1.14	.19	-.26	.24	ALP	8.08	7.40			
97	194	291	246.44	-.58	245.86	3.18		11.07	23.96	9.46	-10.24	.05	.19	-.46	.27	ALP	8.09	7.41			
97	195	292	252.97	-.86	252.11	1.83	5.01	11.28	24.23	11.03	-9.12	-.38	.19	-.63	.28	ALP	8.11	7.42			
97	196	293	258.30	-1.13	257.17	3.01	4.84	11.34	24.51	9.91	-10.68	-.49	.19	-.79	.29	ALP	8.12	7.42			
97	197	294	264.96	-1.38	263.58	1.66	4.67	11.56	24.78	11.47	-9.56	-.61	.19	-.93	.29	ALP	8.13	7.43			
97	198	295	270.43	-1.63	268.80	2.85	4.51	11.63	25.06	10.36	-11.11	-.72	.19	-1.06	.30	ALP	8.14	7.44			
97	199	296	277.23	-1.86	275.37	1.50	4.35	11.83	25.33	11.91	-9.99	-.84	.19	-1.19	.30	ALP	8.15	7.44			
97	200	297	282.83	-2.09	280.74	2.69	4.20	11.91	25.62	10.78	-11.55	-.97	.19	-1.31	.30	ALP	8.16	7.45			
97	201	298	289.76	-2.30	287.46	1.36	4.05	12.12	25.89	12.32	-10.44	-1.09	.19	-1.42	.30	ALP	8.17	7.45			
97	202	299	295.51	-2.50	293.01	2.53	3.88	12.18	26.15	11.22	-11.96	-1.19	.19	-1.54	.31	ALP	8.19	7.46			
97	203	300	302.57	-2.69	299.88	1.20	3.73	12.38	26.42	12.75	-10.86	-1.32	.19	-1.65	.31	ALP	8.20	7.47			
97	204	301	308.44	-2.87	305.57	2.38	3.58	12.46	26.70	11.64	-12.39	-1.44	.19	-1.76	.31	ALP	8.21	7.47			
97	205	302	315.63	-3.04	312.59	1.05	3.43	12.66	26.97	13.16	-11.29	-1.56	.19	-1.86	.31	ALP	8.22	7.48			
97	206	303	321.64	-3.20	318.44	2.22	3.28	12.72	27.23	12.06	-12.81	-1.67	.19	-1.96	.31	ALP	8.23	7.48			
97	207	304	328.96	-3.34	325.62	.90	3.12	12.92	27.48	13.59	-11.69	-1.78	.19	-2.07	.31	ALP	8.24	7.49			
97	208	305	335.09	-3.48	331.61	2.07	2.98	12.99	27.75	12.48	-13.21	-1.91	.19	-2.16	.31	ALP	8.25	7.50			
97	209	306	342.53	-3.60	338.93	.76	2.83	13.19	28.01	13.99	-12.10	-2.02	.19	-2.26	.31	ALP	8.26	7.50			
97	210	307	348.79	-3.72	345.07	1.93	2.68	13.25	28.27	12.89	-13.61	-2.14	.19	-2.35	.31	ALP	8.28	7.51			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
98	108	206	113.55	-1.83	111.72	13.15	24.81	-2.95	-7.20	-17.48	13.33	11.54	.20	1.19	.14	4	6.96	6.91			
98	109	207	110.21	-1.70	108.51	11.28	24.43	-2.83	-6.76	-15.50	14.50	11.49	.20	1.25	.14	4	6.97	6.92			
98	110	208	105.39	-1.56	103.83	12.75	24.03	-2.54	-6.35	-16.66	12.54	11.46	.19	1.31	.14	4	6.99	6.93			
98	111	209	102.40	-1.40	101.00	10.90	23.66	-2.42	-5.92	-14.70	13.70	11.41	.19	1.36	.14	4	7.01	6.93			
98	112	210	97.93	-1.23	96.70	12.37	23.27	-2.12	-5.50	-15.86	11.75	11.37	.19	1.41	.14	4	7.02	6.94			
98	113	211	95.29	-1.04	94.25	10.53	22.90	-2.01	-5.09	-13.90	12.93	11.32	.19	1.46	.14	4	7.04	6.94			
98	114	212	91.16	-.84	90.32	12.00	22.53	-1.70	-4.68	-15.06	10.98	11.28	.19	1.50	.14	4	7.05	6.95			
98	115	213	88.86	-.64	88.22	10.17	22.17	-1.60	-4.26	-13.12	12.16	11.21	.19	1.55	.14	4	7.07	6.96			
98	116	214	85.07	-.42	84.65	11.64	21.81	-1.30	-3.86	-14.29	10.23	11.16	.18	1.59	.14	4	7.08	6.96			
98	117	215	83.09	-.19	82.90	9.83	21.46	-1.19	-3.46	-12.37	11.42	11.10	.18	1.62	.14	4	7.10	6.97			
98	118	216	79.64	.04	79.68	11.29	21.12	-.91	-3.08	-13.54	9.55	11.04	.17	1.66	.14	4	7.11	6.97			
98	119	217	77.98	.26	78.24	9.51	20.80	-.82	-2.72	-11.65	10.84	10.95	.16	1.70	.16	4	7.13	6.98			
98	120	218	74.85	.43	75.28	11.03	20.54	-.59	-2.52	-12.89	9.57	10.83	.13	1.74	.16	4	7.14	6.98			
98	121	219	73.50	.20	73.70	9.66	20.68	-.70	-2.50	-11.43	11.19	10.33		1.77	.16	4	7.16	6.99			
98	122	220	70.69	-.47	70.22	11.56	21.21	-.41	-2.11	-13.26	9.34	9.61		1.81	.16	4	7.17	7.00			
98	123	221	69.65	-1.17	68.48	9.81	21.37	-.31	-1.71	-11.40	10.55	9.44		1.84	.16	4	7.18	7.00			
98	124	222	67.14	-1.91	65.23	11.31	21.13	-.01	-1.30	-12.61	8.70	9.27		1.86	.16	4	7.20	7.01			
98	125	223	66.40	-2.67	63.73	9.58	20.89	.09	-.90	-10.77	9.90	9.11		1.89	.16	4	7.21	7.01			
98	126	224	64.20	-3.46	60.74	11.06	20.64	.37	-.51	-11.96	6.39	8.96		1.91	.16	4	7.23	7.02			
98	127	225	63.74	-2.60	61.14	7.67	18.74	.49	-.10	-8.46	7.59	10.46		1.93	.16	4	7.24	7.03			
98	128	226	61.84	-1.77	60.07	9.15	16.82	.77	.29	-9.65	5.80	11.99		1.94	.16	4	7.26	7.03			
98	129	227	61.67	-.99	60.68	7.45	16.61	.88	.70	-7.84	7.00	11.79		1.96	.16	4	7.27	7.04			
98	130	228	60.05	-.24	59.81	8.94	16.40	1.17	1.09	-9.04	5.20	11.61		1.97	.16	4	7.29	7.04			
98	131	229	60.16	.43	60.59	7.29	16.23	1.31	1.53	-7.27	6.87	11.37	.08	1.97	.16	4	7.30	7.05			
98	132	230	58.82	.38	59.20	9.46	16.75	1.81	2.39	-9.03	5.17	10.46	.14	1.98	.16	4	7.31	7.05			
98	133	231	59.20	.17	59.37	7.90	17.36	1.95	2.87	-7.27	6.35	9.41	.16	1.98	.16	4	7.33	7.06			
98	134	232	58.14	-.06	58.08	9.37	17.26	2.23	3.27	-8.43	4.54	8.65	.17	1.98	.16	4	7.34	7.07			
98	135	233	58.79	-.30	58.49	7.66	17.02	2.34	3.67	-6.61	5.69	8.41	.17	1.98	.16	4	7.36	7.07			
98	136	234	57.99	-.53	57.46	9.10	16.76	2.62	4.07	-7.77	3.87	8.26	.18	1.97	.16	4	7.37	7.08			
98	137	235	58.90	-.74	58.16	7.38	16.47	2.72	4.44	-5.95	5.03	8.15	.18	1.96	.16	4	7.38	7.08			
98	138	236	58.37	-.95	57.42	8.81	16.19	2.99	4.83	-7.10	3.22	8.05	.18	1.95	.16	4	7.40	7.09			
98	139	237	59.53	-1.14	58.39	7.10	15.91	3.10	5.20	-5.29	4.37	7.94	.18	1.94	.16	4	7.41	7.10			
98	140	238	59.26	-1.32	57.94	8.52	15.63	3.36	5.57	-6.43	2.58	7.85	.18	1.93	.16	4	7.42	7.10			
98	141	239	60.67	-1.48	59.19	6.83	15.35	3.46	5.94	-4.63	3.74	7.75	.18	1.91	.16	4	7.44	7.11			
98	142	240	60.65	-1.64	59.01	8.24	15.07	3.73	6.31	-5.78	1.95	7.65	.18	1.89	.16	4	7.45	7.11	58.13	-2.52	-.88
98	143	241	62.30	-1.78	60.52	6.56	14.81	3.83	6.68	-4.00	3.10	7.55	.18	1.87	.16	4	7.46	7.12	59.21	-3.09	-1.31
98	144	242	62.52	-1.90	60.62	7.98	14.53	4.09	7.04	-5.14	1.32	7.45	.18	1.84	.16	4	7.48	7.13	59.35	-3.17	-1.27
98	145	243	64.41	-2.01	62.40	6.30	14.27	4.19	7.40	-3.36	2.48	7.35	.18	1.82	.16	4	7.49	7.13	60.93	-3.48	-1.47
98	146	244	64.88	-2.11	62.77	7.70	14.00	4.45	7.76	-4.50	.71	7.26	.18	1.79	.16	4	7.51	7.14	61.47	-3.41	-1.30
98	147	245	67.00	-2.20	64.80	6.04	13.74	4.55	8.12	-2.74	1.86	7.15	.18	1.76	.16	4	7.52	7.14	63.40	-3.60	-1.40
98	148	246	67.70	-2.28	65.42	7.45	13.49	4.81	8.49	-3.89	.10	7.05	.19	1.72	.16	4	7.53	7.15	64.12	-3.58	-1.30
98	149	247	70.05	-2.34	67.71	5.79	13.23	4.90	8.84	-2.13	1.25	6.94	.19	1.69	.16	4	7.54	7.16	66.22	-3.83	-1.49
98	150	248	70.99	-2.39	68.60	7.18	12.97	5.15	9.19	-3.27	-.49	6.85	.18	1.65	.16	4	7.56	7.16	67.26	-3.73	-1.34
98	151	249	73.56	-2.42	71.14	5.53	12.72	5.25	9.54	-1.52	.66	6.74	.18	1.62	.14	4	7.57	7.17	69.74	-3.82	-1.40
98	152	250	74.72	-2.45	72.27	6.93	12.47	5.50	9.89	-2.66	-1.08	6.64	.18	1.59	.14	4	7.58	7.17	71.20	-3.52	-1.07
98	153	251	77.50	-2.46	75.04	5.30	12.24	5.60	10.25	-.94	.05	6.52	.18	1.55	.14	4	7.60	7.18	74.15	-3.35	-.89
98	154	252	78.88	-2.46	76.42	6.69	11.99	5.85	10.59	-2.08	-1.67	6.41	.18	1.52	.14	4	7.61	7.19	76.06	-2.82	-.36
98	155	253	81.89	-2.44	79.45	5.05	11.74	5.94	10.93	-.33	-.51	6.32	.18	1.48	.14	4	7.62	7.19	79.34	-2.55	-.11
98	156	254	83.48	-2.42	81.06	6.45	11.51	6.19	11.28	-1.48	-2.24	6.20	.18	1.45	.14	4	7.64	7.20	81.43	-2.05	.37
98	157	255	86.69	-2.38	84.31	4.83	11.28	6.28	11.62	.24	-1.10	6.09	.18	1.41	.14	4	7.65	7.20			
98	158	256	88.50	-2.33	86.17	6.21	11.04	6.53	11.96	-.90	-2.80	5.98	.18	1.37	.14	4	7.66	7.21			
98	159	257	91.92	-2.27	89.65	4.59	10.80	6.61	12.29	.81	-1.66	5.87	.18	1.33	.14	4	7.67	7.22			
98	160	258	93.93	-2.20	91.73	5.98	10.58	6.86	12.63	-.33	-3.36	5.76	.18	1.28	.14	4	7.69	7.22			
98	161	259	97.55	-2.12	95.43	4.37	10.36	6.95	12.97	1.37	-2.22	5.64	.18	1.24	.14	4	7.70	7.23			
98	162	260	99.77	-2.02	97.75	5.75	10.13	7.19	13.30	.24	-3.90	5.54	.18	1.19	.14	4	7.71	7.23			
98	163	261	103.58	-1.91	101.67	4.15	9.90	7.28	13.63	1.93	-2.76	5.42	.18	1.15	.14	4	7.73	7.24			
98	164	262	106.00	-1.80	104.20	5.53	9.69	7.52	13.96	.79	-4.45	5.31	.18	1.10	.14	4	7.74	7.25			
98	165	263	110.00	-1.67	108.33	3.94	9.48	7.60	14.29	2.48	-3.31	5.19	.18	1.05	.14	4	7.75	7.25			
98	166	264	112.61	-1.53	111.08	5.32	9.26	7.85	14.62	1.34	-4.98	5.07	.18	1.01	.12	4	7.76	7.26			
98	167	265	116.80	-1.38	115.42	3.73	9.05	7.93	14.94	3.01	-3.85	4.95	.18	.97	.12	4	7.78	7.26			
98	168	266	119.61	-1.22	118.39	5.10	8.84	8.16	15.26	1.88	-5.50	4.84	.18	.93	.12	4	7.79	7.27			
98	169	267	123.98	-1.04	122.94	3.53	8.63	8.25	15.58	3.55	-4.36	4.73	.18	.89	.12	4	7.80	7.28			
98	170	268	126.97	-.86	126.11	4.90	8.42	8.48	15.90	2.42	-6.02	4.61	.18	.85	.12	4	7.81	7.28			
98	171	269	131.52	-.67	130.85	3.33	8.23	8.57	16.22	4.07	-4.89	4.48	.18	.81	.12	4	7.83	7.29			
98	172	270	134.70	-.47	134.23	4.69	8.02	8.80	16.53	2.94	-6.53	4.37	.17	.77	.12	4	7.84	7.29			
98	173	271	139.43	-.26	139.17	3.13	7.82	8.88	16.84	4.59	-5.38	4.25	.17	.73	.12	4	7.85	7.30			
98	174	272	142.79	-.05	142.74	4.50	7.63	9.10	17.14	3.45	-6.98	4.13	.16	.68	.12	4	7.86	7.31			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP NEU	RADIUS PRO	EXPERIMENTAL MASS	SHELL	DIFF
98	175	273	147.69	.16	147.85	2.96	7.46	9.16	17.37	5.07	-5.34	3.99	.15	.64	.12	4	7.87	7.31			
98	176	274	151.22	.09	151.31	4.61	7.57	9.17	17.24	3.64	-6.41	3.58		.59	.12	4	7.89	7.32			
98	177	275	156.29	-.53	155.76	3.62	8.23	9.25	17.55	4.53	-5.25	2.69		.56	.10	4	7.90	7.32			
98	178	276	160.00	-1.18	158.82	5.01	8.63	9.47	17.86	3.36	-6.83	2.42		.53	.10	4	7.91	7.33			
98	179	277	165.23	-1.84	163.39	3.51	8.51	9.56	18.17	4.95	-5.67	2.23		1.29	.20	ALP	7.92	7.34			
98	180	278	169.11	-2.53	166.58	4.88	8.39	9.77	18.47	3.80	-7.25	2.05		1.57	.19	ALP	7.93	7.34			
98	181	279	174.51	-3.24	171.27	3.38	8.26	9.85	18.77	5.38	-6.09	1.87		1.86	.19	ALP	7.95	7.35			
98	182	280	178.55	-3.97	174.58	4.76	8.14	10.07	19.07	4.23	-7.66	1.69		2.16	.19	ALP	7.96	7.35			
98	183	281	184.11	-4.73	179.38	3.27	8.03	10.15	19.37	5.80	-6.51	1.50		2.47	.19	ALP	7.97	7.36			
98	184	282	188.31	-5.51	182.80	4.65	7.92	10.37	19.67	4.64	-9.73	1.31		2.79	.19	ALP	7.98	7.37			
98	185	283	194.03	-4.66	189.37	1.51	6.15	10.45	19.97	7.85	-8.56	2.77		2.39	.19	ALP	7.99	7.37			
98	186	284	198.39	-3.84	194.55	2.89	4.40	10.67	20.27	6.70	-10.12	4.23		2.00	.19	ALP	8.01	7.38			
98	187	285	204.26	-3.05	201.21	1.42	4.30	10.75	20.57	8.25	-8.96	4.02		1.62	.19	ALP	8.02	7.38			
98	188	286	208.78	-2.29	206.49	2.79	4.21	10.97	20.87	7.10	-10.50	3.82		1.26	.19	ALP	8.03	7.39			
98	189	287	214.80	-1.56	213.24	1.32	4.11	11.05	21.17	8.65	-9.35	3.61		.91	.19	ALP	8.04	7.40			
98	190	288	219.48	-.86	218.62	2.69	4.01	11.26	21.46	7.50	-10.89	3.41		.57	.18	ALP	8.05	7.40			
98	191	289	225.64	-.18	225.46	1.23	3.92	11.34	21.76	9.04		3.21		.24	.18	ALP	8.06	7.41			
98	192	290	230.47	UNSTABLE AGAINST FISSION																	
98	193	291	236.78	-.38	236.40		5.21	11.87	22.86		-9.47	1.33	.19	-.36	.24	ALP	8.09	7.42			
98	194	292	241.76	-.67	241.09	3.38		12.07	23.13	7.60	-11.02	.29	.19	-.57	.26	ALP	8.10	7.43			
98	195	293	248.21	-.95	247.26	1.90	5.28	12.14	23.42	9.15	-9.91	.15	.19	-.74	.28	ALP	8.11	7.43			
98	196	294	253.33	-1.22	252.11	3.22	5.12	12.35	23.70	8.04	-11.47	.04	.19	-.89	.29	ALP	8.12	7.44			
98	197	295	259.92	-1.47	258.45	1.74	4.95	12.42	23.97	9.60	-10.35	-.08	.19	-1.03	.29	ALP	8.13	7.45			
98	198	296	265.18	-1.72	263.46	3.06	4.79	12.63	24.26	8.49	-11.90	-.20	.19	-1.16	.29	ALP	8.15	7.45			
98	199	297	271.91	-1.95	269.96	1.58	4.63	12.69	24.53	10.04	-10.78	-.31	.19	-1.29	.30	ALP	8.16	7.46			
98	200	298	277.31	-2.18	275.13	2.89	4.48	12.90	24.81	8.92	-12.33	-.43	.19	-1.41	.30	ALP	8.17	7.46			
98	201	299	284.17	-2.39	281.78	1.42	4.32	12.97	25.09	10.46	-11.23	-.55	.19	-1.53	.30	ALP	8.18	7.47			
98	202	300	289.71	-2.59	287.12	2.73	4.16	13.17	25.35	9.36	-12.76	-.67	.19	-1.64	.30	ALP	8.19	7.48			
98	203	301	296.71	-2.78	293.93	1.26	4.00	13.23	25.62	10.90	-11.64	-.78	.19	-1.75	.31	ALP	8.20	7.48			
98	204	302	302.38	-2.95	299.43	2.58	3.84	13.44	25.88	9.80	-13.17	-.89	.19	-1.85	.30	ALP	8.21	7.49			
98	205	303	309.50	-3.12	306.38	1.12	3.69	13.51	26.16	11.32	-12.06	-1.02	.19	-1.96	.31	ALP	8.22	7.49			
98	206	304	315.31	-3.28	312.03	2.42	3.54	13.70	26.42	10.22	-13.58	-1.13	.19	-2.06	.31	ALP	8.24	7.50			
98	207	305	322.56	-3.42	319.14	.97	3.39	13.77	26.68	11.74	-12.47	-1.25	.19	-2.16	.31	ALP	8.25	7.51			
98	208	306	328.50	-3.56	324.94	2.27	3.24	13.96	26.95	10.64	-13.98	-1.36	.19	-2.25	.31	ALP	8.26	7.51			
98	209	307	335.87	-3.68	332.19	.82	3.09	14.03	27.21	12.16	-12.88	-1.48	.19	-2.35	.31	ALP	8.27	7.52			
98	210	308	341.93	-3.80	338.13	2.12	2.95	14.23	27.48	11.05	-14.39	-1.60	.19	-2.44	.31	ALP	8.28	7.52			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP NEU	RADIUS PRO	EXPERIMENTAL MASS	SHELL	DIFF
99	118	217	89.99	-.10	89.89	11.40	21.52	-2.93	-3.83	-12.58	11.65	11.40	.18	1.37	.14	4	7.12	6.99			
99	119	218	88.03	.14	88.17	9.79	21.19	-2.64	-3.46	-10.68	12.89	11.33	.17	1.41	.14	4	7.13	7.00			
99	120	219	84.78	.35	85.13	11.11	20.90	-2.56	-3.15	-11.90	11.43	11.23	.15	1.44	.14	4	7.15	7.00			
99	121	220	83.14	.34	83.48	9.73	20.83	-2.48	-3.19	-10.25	13.26	10.92		1.47	.14	4	7.16	7.01			
99	122	221	80.22	-.33	79.89	11.66	21.39	-2.38	-2.80	-12.20	11.42	10.06		1.50	.14	4	7.18	7.01			
99	123	222	78.88	-1.03	77.85	10.11	21.77	-2.08	-2.39	-10.42	12.61	9.72		1.52	.14	4	7.19	7.02			
99	124	223	76.26	-1.76	74.50	11.42	21.52	-1.97	-1.99	-11.62	10.77	9.56		1.55	.14	4	7.21	7.03			
99	125	224	75.23	-2.52	72.71	9.86	21.28	-1.68	-1.60	-9.78	11.97	9.41		1.57	.14	4	7.22	7.03			
99	126	225	72.91	-3.31	69.60	11.18	21.04	-1.57	-1.19	-10.99	8.45	9.24		1.59	.14	4	7.24	7.04			
99	127	226	72.17	-2.45	69.72	7.96	19.13	-1.28	-.80	-7.49	9.66	10.76		1.60	.14	4	7.25	7.04			
99	128	227	70.16	-1.63	68.53	9.26	17.22	-1.17	-.41	-8.68	7.85	12.28		1.62	.14	4	7.26	7.05			
99	129	228	69.70	-.85	68.85	7.75	17.01	-.88	.00	-6.88	9.04	12.08		1.63	.14	4	7.28	7.06			
99	130	229	67.97	-.11	67.86	9.06	16.80	-.77	.40	-8.08	7.27	11.89		1.64	.14	4	7.29	7.06			
99	131	230	67.80	.43	68.23	7.71	16.76	-.35	.96	-6.45	9.03	11.53	.11	1.65	.14	4	7.31	7.07			
99	132	231	66.35	.29	66.64	9.66	17.37	-.15	1.66	-8.16	7.27	10.53	.15	1.66	.14	4	7.32	7.07			
99	133	232	66.45	.06	66.51	8.20	17.86	.15	2.09	-6.38	8.43	9.47	.17	1.66	.14	4	7.34	7.08			
99	134	233	65.28	-.18	65.10	9.49	17.69	.27	2.50	-7.54	6.61	8.96	.17	1.66	.14	4	7.35	7.08			
99	135	234	65.65	-.42	65.23	7.94	17.42	.55	2.89	-5.72	7.76	8.78	.18	1.66	.14	4	7.36	7.09			
99	136	235	64.75	-.65	64.10	9.20	17.15	.66	3.27	-6.87	5.94	8.66	.18	1.66	.14	4	7.38	7.10			
99	137	236	65.38	-.86	64.52	7.66	16.86	.93	3.65	-5.05	7.10	8.55	.18	1.66	.14	4	7.39	7.10			
99	138	237	64.75	-1.07	63.68	8.91	16.57	1.03	4.03	-6.20	5.29	8.46	.18	1.65	.14	4	7.40	7.11			
99	139	238	65.64	-1.26	64.38	7.37	16.28	1.30	4.40	-4.39	6.44	8.36	.18	1.64	.14	4	7.42	7.11			
99	140	239	65.26	-1.44	63.82	8.63	16.00	1.41	4.77	-5.55	4.64	8.27	.18	1.63	.14	4	7.43	7.12			
99	141	240	66.40	-1.60	64.80	7.10	15.72	1.68	5.14	-3.75	5.79	8.18	.18	1.62	.14	4	7.45	7.13			
99	142	241	66.28	-1.76	64.52	8.34	15.45	1.78	5.51	-4.90	4.00	8.08	.19	1.61	.14	4	7.46	7.13			
99	143	242	67.66	-1.89	65.77	6.83	15.17	2.05	5.87	-3.11	5.15	7.99	.18	1.59	.14	4	7.47	7.14			
99	144	243	67.78	-2.02	65.76	8.07	14.90	2.15	6.24	-4.26	3.36	7.88	.18	1.58	.14	4	7.49	7.14			
99	145	244	69.40	-2.13	67.27	6.57	14.64	2.42	6.61	-2.49	4.51	7.78	.19	1.56	.14	4	7.50	7.15	65.98	-3.42	-1.29
99	146	245	69.77	-2.23	67.54	7.81	14.37	2.51	6.96	-3.63	2.74	7.69	.19	1.54	.14	4	7.51	7.16	66.45	-3.32	-1.09
99	147	246	71.63	-2.32	69.31	6.30	14.11	2.77	7.32	-1.87	3.88	7.59	.19	1.52	.14	4	7.53	7.16	67.97	-3.66	-1.34
99	148	247	72.23	-2.39	69.84	7.54	13.85	2.88	7.68	-3.02	2.13	7.49	.19	1.50	.14	4	7.54	7.17	68.58	-3.65	-1.26
99	149	248	74.32	-2.45	71.87	6.05	13.59	3.13	8.03	-1.26	3.27	7.39	.18	1.47	.14	4	7.55	7.17	70.32	-4.00	-1.55
99	150	249	75.16	-2.50	72.66	7.28	13.33	3.23	8.38	-2.40	1.53	7.29	.18	1.44	.14	4	7.57	7.18	71.15	-4.01	-1.51
99	151	250	77.47	-2.53	74.94	5.79	13.07	3.49	8.73	-.66	2.67	7.19	.19	1.42	.14	4	7.58	7.19	73.20	-4.27	-1.74
99	152	251	78.53	-2.56	75.97	7.03	12.83	3.58	9.09	-1.81	.92	7.08	.19	1.39	.14	4	7.59	7.19	74.52	-4.01	-1.45
99	153	252	81.06	-2.57	78.49	5.55	12.59	3.84	9.44	-.08	2.06	6.97	.19	1.36	.14	4	7.60	7.20	77.18	-3.88	-1.31
99	154	253	82.35	-2.56	79.79	6.78	12.33	3.93	9.77	-1.20	.35	6.88	.19	1.32	.14	4	7.62	7.20	79.04	-3.31	-.75
99	155	254	85.09	-2.55	82.54	5.32	12.10	4.19	10.13	.51	1.47	6.76	.18	1.29	.14	4	7.63	7.21	82.02	-3.07	-.52
99	156	255	86.60	-2.52	84.08	6.54	11.85	4.28	10.46	-.62	-.23	6.67	.18	1.26	.14	4	7.64	7.21	84.11	-2.49	.03
99	157	256	89.55	-2.49	87.06	5.08	11.63	4.54	10.82	1.08	.89	6.54	.18	1.22	.14	4	7.66	7.22	87.28	-2.27	.22
99	158	257	91.27	-2.44	88.83	6.31	11.39	4.63	11.16	-.05	-.81	6.44	.18	1.18	.14	4	7.67	7.23			
99	159	258	94.43	-2.37	92.06	4.85	11.15	4.88	11.49	1.65	.33	6.33	.18	1.14	.14	4	7.68	7.23			
99	160	259	96.36	-2.30	94.06	6.07	10.92	4.96	11.82	.52	-1.37	6.23	.18	1.10	.14	4	7.69	7.24			
99	161	260	99.73	-2.22	97.51	4.62	10.69	5.21	12.16	2.22	-.24	6.11	.18	1.06	.14	4	7.71	7.24			
99	162	261	101.86	-2.12	99.74	5.84	10.46	5.30	12.49	1.09	-1.92	6.01	.18	1.03	.12	4	7.72	7.25			
99	163	262	105.42	-2.01	103.41	4.40	10.24	5.54	12.82	2.77	-.79	5.89	.18	.99	.12	4	7.73	7.26			
99	164	263	107.75	-1.90	105.85	5.62	10.03	5.63	13.16	1.63	-2.48	5.77	.18	.96	.12	4	7.74	7.26			
99	165	264	111.51	-1.77	109.74	4.18	9.81	5.87	13.49	3.31	-1.34	5.66	.18	.93	.12	4	7.76	7.27			
99	166	265	114.03	-1.63	112.40	5.41	9.60	5.97	13.82	2.17	-3.02	5.54	.18	.89	.12	4	7.77	7.27			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
99	167	266	117.98	-1.47	116.51	3.97	9.37	6.21	14.13	3.85	-1.88	5.44	.18	.85	.12	4	7.78	7.28			
99	168	267	120.70	-1.31	119.39	5.19	9.16	6.29	14.45	2.72	-3.54	5.33	.18	.82	.12	4	7.79	7.29			
99	169	268	124.83	-1.14	123.69	3.77	8.96	6.53	14.78	4.37	-2.42	5.20	.18	.78	.12	4	7.81	7.29			
99	170	269	127.74	-.96	126.78	4.98	8.75	6.61	15.10	3.25	-4.07	5.09	.18	.74	.12	4	7.82	7.30			
99	171	270	132.05	-.76	131.29	3.57	8.54	6.85	15.42	4.90	-2.94	4.97	.18	.70	.12	4	7.83	7.30			
99	172	271	135.15	-.56	134.59	4.77	8.34	6.93	15.73	3.78	-4.58	4.86	.18	.66	.12	4	7.84	7.31			
99	173	272	139.64	-.35	139.29	3.37	8.14	7.17	16.04	5.41	-3.45	4.74	.17	.62	.12	4	7.86	7.32			
99	174	273	142.91	-.13	142.78	4.58	7.95	7.25	16.35	4.28	-5.07	4.62	.17	.58	.10	4	7.87	7.32			
99	175	274	147.58	.09	147.67	3.19	7.76	7.47	16.63	5.90	-3.64	4.49	.16	.55	.10	4	7.88	7.33			
99	176	275	151.03	.20	151.23	4.51	7.69	7.37	16.54	4.65	-4.53	4.25	.07	.52	.10	4	7.89	7.33			
99	177	276	155.87	-.41	155.46	3.85	8.35	7.59	16.84	5.47	-3.36	3.32		.68	.23	ALP	7.90	7.34			
99	178	277	159.50	-1.05	158.45	5.09	8.93	7.67	17.13	4.23	-4.94	2.84		.92	.20	ALP	7.92	7.35			
99	179	278	164.50	-1.72	162.78	3.73	8.82	7.90	17.45	5.80	-3.80	2.64		1.18	.20	ALP	7.93	7.35			
99	180	279	168.30	-2.41	165.89	4.96	8.69	7.97	17.75	4.65	-5.38	2.46		1.46	.19	ALP	7.94	7.36			
99	181	280	173.47	-3.12	170.35	3.61	8.58	8.20	18.06	6.23	-4.23	2.27		1.76	.19	ALP	7.95	7.36			
99	182	281	177.43	-3.85	173.58	4.84	8.45	8.28	18.36	5.07	-5.80	2.09		2.06	.19	ALP	7.96	7.37			
99	183	282	182.77	-4.60	178.17	3.49	8.33	8.50	18.65	6.65	-4.64	1.91		2.37	.19	ALP	7.98	7.38			
99	184	283	186.89	-5.38	181.51	4.72	8.22	8.58	18.96	5.49	-7.86	1.73		2.69	.19	ALP	7.99	7.38			
99	185	284	192.39	-4.53	187.86	1.73	6.45	8.80	19.25	8.71	-6.69	3.19		2.29	.19	ALP	8.00	7.39			
99	186	285	196.67	-3.72	192.95	2.97	4.71	8.89	19.56	7.54	-8.26	4.64		1.91	.19	ALP	8.01	7.39			
99	187	286	202.32	-2.93	199.39	1.64	4.61	9.11	19.85	9.10	-7.10	4.44		1.53	.19	ALP	8.02	7.40			
99	188	287	206.77	-2.17	204.60	2.86	4.50	9.18	20.14	7.95	-8.64	4.24		1.17	.18	ALP	8.04	7.41			
99	189	288	212.56	-1.44	211.12	1.55	4.41	9.41	20.45	9.49	-7.50	4.03		.82	.18	ALP	8.05	7.41			
99	190	289	217.16	-.74	216.42	2.77	4.32	9.49	20.75	8.34	-9.04	3.83		.48	.18	ALP	8.06	7.42			
99	191	290	223.11	-.07	223.04	1.45	4.23	9.71	21.05	9.87		3.62		.16	.17	ALP	8.07	7.43			
99	192	291	227.87	UNSTABLE AGAINST FISSION																	
99	193	292	233.96	-.47	233.49		5.70	10.20	22.06		-7.59	1.56	.20	-.46	.24	ALP	8.09	7.44			
99	194	293	238.86	-.76	238.10	3.46		10.27	22.35	8.39	-9.16		.19	-.66	.26	ALP	8.11	7.44			
99	195	294	245.10	-1.03	244.07	2.11	5.57	10.48	22.62	9.95	-8.04	.67	.19	-.84	.27	ALP	8.12	7.45			
99	196	295	250.15	-1.30	248.85	3.29	5.40	10.55	22.90	8.84	-9.59	.56	.19	-.99	.28	ALP	8.13	7.46			
99	197	296	256.53	-1.55	254.98	1.95	5.23	10.76	23.17	10.39	-8.48	.44	.19	-1.13	.29	ALP	8.14	7.46			
99	198	297	261.72	-1.80	259.92	3.12	5.07	10.83	23.46	9.28	-10.04	.32	.19	-1.27	.29	ALP	8.15	7.47			
99	199	298	268.24	-2.03	266.21	1.78	4.91	11.04	23.73	10.83	-8.93	.21	.19	-1.39	.30	ALP	8.16	7.47			
99	200	299	273.57	-2.25	271.32	2.96	4.74	11.11	24.00	9.72	-10.47	.10	.19	-1.51	.30	ALP	8.17	7.48			
99	201	300	280.22	-2.46	277.76	1.63	4.59	11.32	24.28	11.25	-9.37	-.03	.19	-1.63	.30	ALP	8.19	7.49			
99	202	301	285.69	-2.66	283.03	2.80	4.43	11.39	24.55	10.15	-10.90	-.14	.19	-1.74	.30	ALP	8.20	7.49			
99	203	302	292.48	-2.85	289.63	1.47	4.27	11.59	24.83	11.68	-9.80	-.26	.19	-1.85	.30	ALP	8.21	7.50			
99	204	303	298.09	-3.03	295.06	2.64	4.12	11.65	25.09	10.58	-11.32	-.37	.19	-1.95	.30	ALP	8.22	7.50			
99	205	304	305.00	-3.19	301.81	1.32	3.97	11.86	25.36	12.10	-10.22	-.49	.19	-2.05	.30	ALP	8.23	7.51			
99	206	305	310.74	-3.35	307.39	2.49	3.81	11.93	25.63	11.00	-11.74	-.61	.19	-2.16	.30	ALP	8.24	7.52			
99	207	306	317.79	-3.49	314.30	1.17	3.66	12.13	25.89	12.52	-10.64	-.72	.19	-2.25	.30	ALP	8.25	7.52			
99	208	307	323.66	-3.63	320.03	2.34	3.51	12.19	26.16	11.42	-12.15	-.84	.19	-2.35	.30	ALP	8.26	7.53			
99	209	308	330.83	-3.75	327.08	1.02	3.36	12.39	26.42	12.93	-11.05	-.96	.19	-2.44	.30	ALP	8.28	7.53			
99	210	309	336.83	-3.86	332.97	2.19	3.21	12.46	26.68	11.84	-12.55	-1.07	.19	-2.53	.30	ALP	8.29	7.54			

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100	112	212	119.86	-1.54	118.32	12.79	24.11	-2.88	-7.04	-17.03	12.94	12.07	.20	.88	.12	4	7.04	6.98			
100	113	213	116.80	-1.35	115.45	10.94	23.73	-2.78	-6.63	-15.07	14.11	12.02	.19	.92	.12	4	7.05	6.98			
100	114	214	112.26	-1.15	111.11	12.41	23.36	-2.48	-6.21	-16.23	12.17	11.98	.19	.95	.12	4	7.07	6.99			
100	115	215	109.53	-.93	108.60	10.58	22.99	-2.36	-5.80	-14.29	13.33	11.93	.19	.99	.12	4	7.08	6.99			
100	116	216	105.33	-.71	104.62	12.05	22.63	-2.07	-5.39	-15.46	11.40	11.88	.19	1.02	.12	4	7.10	7.00			
100	117	217	102.94	-.47	102.47	10.23	22.27	-1.96	-4.99	-13.53	12.58	11.83	.19	1.06	.12	4	7.11	7.00			
100	118	218	99.08	-.23	98.85	11.69	21.92	-1.68	-4.60	-14.69	10.68	11.77	.18	1.09	.12	4	7.13	7.01			
100	119	219	97.01	.02	97.03	9.89	21.58	-1.58	-4.21	-12.79	11.90	11.71	.17	1.12	.14	4	7.14	7.02			
100	120	220	93.47	.26	93.73	11.37	21.27	-1.30	-3.87	-13.97	10.25	11.63	.16	1.15	.14	4	7.16	7.02			
100	121	221	91.72	.37	92.09	9.71	21.08	-1.33	-3.81	-12.22	12.21	11.43	.10	1.19	.14	4	7.17	7.03			
100	122	222	88.50	-.23	88.27	11.89	21.60	-1.10	-3.47	-14.17	10.43	10.56		1.22	.14	4	7.19	7.03			
100	123	223	87.05	-.93	86.12	10.22	22.11	-.99	-3.07	-12.48	11.62	9.99		1.25	.14	4	7.20	7.04			
100	124	224	84.15	-1.66	82.49	11.70	21.92	-.70	-2.67	-13.67	9.79	9.85		1.27	.14	4	7.21	7.04			
100	125	225	83.01	-2.42	80.59	9.97	21.68	-.60	-2.28	-11.84	10.99	9.69		1.30	.14	4	7.23	7.05			
100	126	226	80.41	-3.20	77.21	11.45	21.43	-.32	-1.89	-13.03	7.49	9.55		1.32	.14	4	7.24	7.06			
100	127	227	79.56	-2.35	77.21	8.07	19.52	-.21	-1.48	-9.54	8.69	11.05		1.34	.14	4	7.26	7.06			
100	128	228	77.26	-1.53	75.73	9.55	17.62	.08	-1.09	-10.73	6.88	12.56		1.35	.14	4	7.27	7.07			
100	129	229	76.70	-.75	75.95	7.85	17.40	.19	-.69	-8.92	8.09	12.38		1.37	.14	4	7.29	7.07			
100	130	230	74.69	-.01	74.68	9.34	17.19	.47	-.30	-10.11	6.45	12.19		1.38	.14	4	7.30	7.08			
100	131	231	74.41	.39	74.80	7.95	17.29	.72	.37	-8.62	8.16	11.70	.13	1.39	.14	4	7.31	7.09			
100	132	232	72.69	.20	72.89	9.98	17.93	1.04	.89	-10.24	6.38	10.66	.16	1.40	.14	4	7.33	7.09			
100	133	233	72.68	-.04	72.64	8.32	18.30	1.16	1.31	-8.45	7.54	9.63	.17	1.41	.14	4	7.34	7.10			
100	134	234	71.24	-.29	70.95	9.76	18.08	1.44	1.70	-9.60	5.72	9.32	.18	1.41	.14	4	7.36	7.10			
100	135	235	71.50	-.53	70.97	8.05	17.81	1.55	2.10	-7.78	6.86	9.17	.18	1.41	.14	4	7.37	7.11			
100	136	236	70.33	-.76	69.57	9.47	17.52	1.82	2.48	-8.92	5.05	9.07	.18	1.42	.14	4	7.38	7.11			
100	137	237	70.86	-.98	69.88	7.76	17.23	1.92	2.86	-7.11	6.20	8.97	.18	1.41	.14	4	7.40	7.12			
100	138	238	69.95	-1.18	68.77	9.18	16.94	2.20	3.23	-8.25	4.40	8.88	.18	1.41	.14	4	7.41	7.13			
100	139	239	70.74	-1.37	69.37	7.48	16.65	2.30	3.60	-6.44	5.55	8.79	.18	1.41	.14	4	7.43	7.13			
100	140	240	70.10	-1.55	68.55	8.89	16.37	2.56	3.97	-7.58	3.76	8.70	.19	1.40	.14	4	7.44	7.14			
100	141	241	71.13	-1.71	69.42	7.20	16.09	2.67	4.34	-5.79	4.90	8.60	.19	1.39	.14	4	7.45	7.14			
100	142	242	70.74	-1.86	68.88	8.61	15.81	2.93	4.71	-6.93	3.12	8.51	.19	1.38	.14	4	7.47	7.15			
100	143	243	72.02	-2.00	70.02	6.93	15.54	3.03	5.08	-5.16	4.26	8.41	.19	1.37	.14	4	7.48	7.16			
100	144	244	71.89	-2.13	69.76	8.33	15.26	3.29	5.44	-6.29	2.49	8.32	.19	1.35	.14	4	7.49	7.16			
100	145	245	73.41	-2.24	71.17	6.66	15.00	3.39	5.81	-4.52	3.63	8.22	.19	1.34	.14	4	7.51	7.17			
100	146	246	73.52	-2.33	71.19	8.06	14.72	3.65	6.15	-5.65	1.88	8.14	.19	1.32	.14	4	7.52	7.17	70.15	-3.37	-1.04
100	147	247	75.28	-2.42	72.86	6.40	14.46	3.74	6.52	-3.89	3.02	8.04	.19	1.30	.14	4	7.53	7.18	71.56	-3.72	-1.30
100	148	248	75.62	-2.49	73.13	7.80	14.20	4.00	6.88	-5.03	1.26	7.94	.19	1.28	.14	4	7.55	7.18	71.90	-3.72	-1.23
100	149	249	77.61	-2.55	75.06	6.15	13.94	4.10	7.23	-3.28	2.40	7.84	.19	1.26	.14	4	7.56	7.19	73.53	-4.08	-1.53
100	150	250	78.19	-2.60	75.59	7.54	13.69	4.36	7.59	-4.42	.66	7.74	.19	1.23	.14	4	7.57	7.20	74.09	-4.10	-1.50
100	151	251	80.41	-2.63	77.78	5.89	13.42	4.45	7.93	-2.67	1.80	7.64	.19	1.21	.14	4	7.59	7.20	76.01	-4.40	-1.77
100	152	252	81.22	-2.65	78.57	7.28	13.17	4.70	8.28	-3.80	.07	7.55	.19	1.18	.14	4	7.60	7.21	76.84	-4.38	-1.73

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
100	153	253	83.65	-2.66	80.99	5.65	12.93	4.80	8.63	-2.08	1.21	7.43	.19	1.15	.14	4	7.61	7.21	79.37	-4.28	-1.62
100	154	254	84.69	-2.66	82.03	7.03	12.68	5.04	8.98	-3.21	-.51	7.34	.18	1.12	.14	4	7.62	7.22	80.93	-3.76	-1.10
100	155	255	87.34	-2.64	84.70	5.41	12.44	5.14	9.32	-1.48	.63	7.23	.18	1.09	.14	4	7.64	7.23	83.82	-3.52	-.88
100	156	256	88.60	-2.62	85.98	6.79	12.19	5.38	9.66	-2.61	-1.09	7.13	.18	1.06	.12	4	7.65	7.23	85.52	-3.08	-.46
100	157	257	91.46	-2.58	88.88	5.17	11.96	5.48	10.01	-.90	.04	7.01	.18	1.04	.12	4	7.66	7.24	88.63	-2.83	-.25
100	158	258	92.93	-2.53	90.40	6.55	11.72	5.72	10.35	-2.03	-1.66	6.91	.18	1.01	.12	4	7.68	7.24			
100	159	259	96.00	-2.47	93.53	4.94	11.50	5.82	10.69	-.33	-.53	6.79	.18	.99	.12	4	7.69	7.25			
100	160	260	97.69	-2.39	95.30	6.31	11.25	6.05	11.01	-1.45	-2.21	6.70	.18	.96	.12	4	7.70	7.26			
100	161	261	100.96	-2.31	98.65	4.71	11.03	6.14	11.36	.24	-1.09	6.58	.18	.93	.12	4	7.71	7.26			
100	162	262	102.85	-2.21	100.64	6.08	10.80	6.38	11.69	-.89	-2.77	6.48	.18	.90	.12	4	7.73	7.27			
100	163	263	106.32	-2.10	104.22	4.49	10.58	6.48	12.02	.80	-1.63	6.36	.18	.87	.12	4	7.74	7.27			
100	164	264	108.41	-1.98	106.43	5.86	10.35	6.72	12.35	-.33	-3.31	6.26	.18	.83	.12	4	7.75	7.28			
100	165	265	112.08	-1.85	110.23	4.27	10.13	6.80	12.68	1.35	-2.18	6.14	.18	.80	.12	4	7.76	7.29			
100	166	266	114.37	-1.71	112.66	5.64	9.91	7.04	13.00	.23	-3.85	6.04	.18	.77	.12	4	7.78	7.29			
100	167	267	118.23	-1.56	116.67	4.06	9.70	7.12	13.33	1.89	-2.72	5.92	.18	.73	.12	4	7.79	7.30			
100	168	268	120.71	-1.40	119.31	5.43	9.49	7.36	13.66	.76	-4.38	5.80	.18	.70	.12	4	7.80	7.30			
100	169	269	124.76	-1.22	123.54	3.85	9.27	7.44	13.97	2.43	-3.24	5.69	.18	.66	.12	4	7.81	7.31			
100	170	270	127.43	-1.04	126.39	5.22	9.07	7.68	14.30	1.30	-4.90	5.58	.18	.62	.12	4	7.83	7.32			
100	171	271	131.66	-.85	130.81	3.65	8.87	7.77	14.62	2.95	-3.77	5.45	.18	.59	.10	4	7.84	7.32			
100	172	272	134.52	-.64	133.88	5.01	8.66	8.00	14.93	1.83	-5.41	5.35	.18	.56	.10	4	7.85	7.33			
100	173	273	138.93	-.43	138.50	3.45	8.46	8.08	15.25	3.47	-4.28	5.22	.18	.54	.10	4	7.86	7.33			
100	174	274	141.98	-.21	141.77	4.80	8.25	8.30	15.55	2.35	-5.90	5.12	.17	.51	.10	4	7.87	7.34			
100	175	275	146.56	.02	146.58	3.26	8.06	8.38	15.84	3.98	-4.65	4.99	.16	.32	.29	ALP	7.89	7.35			
100	176	276	149.78	.20	149.98	4.67	7.93	8.54	15.91	2.80	-5.48	4.82	.12	.41	.26	ALP	7.90	7.35			
100	177	277	154.54	-.32	154.22	3.84	8.50	8.53	16.12	3.68	-4.22	3.95		.58	.22	ALP	7.91	7.36			
100	178	278	157.94	-.96	156.98	5.31	9.15	8.76	16.42	2.35	-5.80	3.24		.82	.20	ALP	7.92	7.36			
100	179	279	162.87	-1.63	161.24	3.81	9.12	8.83	16.73	3.94	-4.65	3.06		1.09	.19	ALP	7.94	7.37			
100	180	280	166.44	-2.32	164.12	5.18	9.00	9.06	17.04	2.78	-6.23	2.87		1.38	.19	ALP	7.95	7.38			
100	181	281	171.53	-3.02	168.51	3.69	8.87	9.14	17.33	4.37	-5.07	2.69		1.67	.19	ALP	7.96	7.38			
100	182	282	175.27	-3.75	171.52	5.06	8.75	9.36	17.63	3.22	-6.64	2.52		1.97	.19	ALP	7.97	7.39			
100	183	283	180.53	-4.51	176.02	3.57	8.63	9.43	17.94	4.78	-5.50	2.33		2.29	.19	ALP	7.98	7.39			
100	184	284	184.43	-5.28	179.15	4.94	8.51	9.65	18.24	3.63	-8.70	2.15		2.61	.19	ALP	7.99	7.40			
100	185	285	189.85	-4.44	185.41	1.81	6.75	9.73	18.54	6.84	-7.55	3.61		2.21	.19	ALP	8.01	7.41			
100	186	286	193.92	-3.62	190.30	3.19	5.00	9.95	18.83	5.70	-9.09	5.07		1.82	.18	ALP	8.02	7.41			
100	187	287	199.49	-2.84	196.65	1.71	4.90	10.03	19.14	7.24	-7.94	4.86		1.45	.18	ALP	8.03	7.42			
100	188	288	203.72	-2.08	201.64	3.08	4.80	10.24	19.43	6.10	-9.48	4.66		1.09	.18	ALP	8.04	7.42			
100	189	289	209.44	-1.35	208.09	1.62	4.70	10.33	19.73	7.65	-8.33	4.46		.74	.18	ALP	8.05	7.43			
100	190	290	213.83	-.65	213.18	2.98	4.60	10.54	20.02	6.51	-9.87	4.26		.41	.18	ALP	8.07	7.44			
100	191	291	219.70	.02	219.72	1.53	4.51	10.62	20.32	8.04		4.05		.10	.15	ALP	8.08	7.44			
100	192	292	224.24	UNSTABLE AGAINST FISSION																	
100	193	293	230.26	-.55	229.71		6.15	11.07	21.27		-8.40	1.82	.21	-.54	.23	ALP	8.10	7.45			
100	194	294	234.95	-.83	234.12	3.67		11.28	21.54		-9.95		.20	-.76	.26	ALP	8.11	7.46			
100	195	295	241.12	-1.11	240.01	2.18	5.85	11.34	21.83	8.08	-8.84	1.19	.19	-.94	.27	ALP	8.12	7.47			
100	196	296	245.96	-1.37	244.59	3.49	5.68	11.55	22.10	6.98	-10.38	1.08	.19	-1.09	.28	ALP	8.13	7.47			
100	197	297	252.26	-1.62	250.64	2.02	5.51	11.63	22.38	8.53	-9.28	.96	.19	-1.24	.29	ALP	8.15	7.48			
100	198	298	257.25	-1.87	255.38	3.33	5.35	11.83	22.66	7.42	-10.83	.85	.19	-1.37	.29	ALP	8.16	7.48			
100	199	299	263.70	-2.10	261.60	1.85	5.18	11.89	22.93	8.97	-9.72	.73	.19	-1.50	.29	ALP	8.17	7.49			
100	200	300	268.82	-2.32	266.50	3.17	5.03	12.10	23.21	7.86	-11.26	.61	.19	-1.62	.30	ALP	8.18	7.50			
100	201	301	275.41	-2.53	272.88	1.69	4.86	12.17	23.48	9.41	-10.15	.50	.19	-1.73	.30	ALP	8.19	7.50			
100	202	302	280.67	-2.72	277.95	3.01	4.70	12.38	23.76	8.31	-11.68	.39	.19	-1.84	.30	ALP	8.20	7.51			
100	203	303	287.39	-2.91	284.48	1.54	4.54	12.44	24.03	9.84	-10.58	.27	.19	-1.95	.30	ALP	8.21	7.51			
100	204	304	292.80	-3.09	289.71	2.84	4.38	12.64	24.30	8.74	-12.10	.16	.19	-2.05	.30	ALP	8.23	7.52			
100	205	305	299.64	-3.25	296.39	1.39	4.23	12.71	24.57	10.26	-11.01	.03	.19	-2.15	.30	ALP	8.24	7.53			
100	206	306	305.19	-3.41	301.78	2.68	4.07	12.90	24.83	9.17	-12.52	-.07	.19	-2.25	.30	ALP	8.25	7.53			
100	207	307	312.16	-3.55	308.61	1.24	3.93	12.98	25.10	10.68	-11.42	-.20	.19	-2.35	.30	ALP	8.26	7.54			
100	208	308	317.84	-3.68	314.16	2.53	3.76	13.17	25.36	9.60	-12.92	-.30	.19	-2.44	.30	ALP	8.27	7.54			
100	209	309	324.94	-3.81	321.13	1.09	3.63	13.24	25.63	11.10	-11.83	-.43	.19	-2.53	.30	ALP	8.28	7.55			
100	210	310	330.74	-3.92	326.82	2.39	3.47	13.43	25.89	10.01	-13.34	-.54	.19	-2.62	.30	ALP	8.29	7.56			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	SHELL	DIFF
101	123	224	97.03	-.86	96.17	10.51	22.41	-2.75	-3.75	-11.49	13.68	10.27		1.00	.12	4	7.21	7.06			
101	124	225	94.02	-1.59	92.43	11.81	22.32	-2.65	-3.35	-12.69	11.84	10.12		1.02	.12	4	7.22	7.06			
101	125	226	92.58	-2.34	90.24	10.26	22.07	-2.36	-2.96	-10.86	13.03	9.97		1.04	.12	4	7.24	7.07			
101	126	227	89.87	-3.13	86.74	11.56	21.83	-2.25	-2.56	-12.06	9.53	9.82		1.06	.12	4	7.25	7.07			
101	127	228	88.73	-2.28	86.45	8.36	19.93	-1.95	-2.15	-8.58	10.72	11.32		1.08	.12	4	7.27	7.08			
101	128	229	86.33	-1.46	84.87	9.66	18.02	-1.85	-1.77	-9.76	8.93	12.84		1.09	.12	4	7.28	7.09			
101	129	230	85.48	-.69	84.79	8.14	17.81	-1.56	-1.36	-7.96	10.11	12.65		1.10	.12	4	7.29	7.09			
101	130	231	83.37	.05	83.42	9.44	17.59	-1.45	-.98	-9.15	8.62	12.47		1.11	.12	4	7.31	7.10			
101	131	232	82.80	.33	83.13	8.36	17.81	-1.05	-.33	-7.79	10.24	11.86	.14	1.13	.14	4	7.32	7.10			
101	132	233	80.97	.11	81.08	10.12	18.48	-.91	.14	-9.36	8.44	10.79	.16	1.14	.14	4	7.34	7.11			
101	133	234	80.69	-.14	80.55	8.61	18.73	-.63	.54	-7.55	9.60	9.90	.17	1.15	.14	4	7.35	7.12			
101	134	235	79.14	-.39	78.75	9.87	18.48	-.52	.93	-8.70	7.78	9.68	.18	1.16	.14	4	7.36	7.12			
101	135	236	79.12	-.63	78.49	8.33	18.20	-.23	1.32	-6.88	8.92	9.55	.18	1.16	.14	4	7.38	7.13			
101	136	237	77.85	-.86	76.99	9.57	17.90	-.13	1.69	-8.02	7.11	9.46	.18	1.16	.14	4	7.39	7.13			
101	137	238	78.10	-1.08	77.02	8.04	17.62	.15	2.08	-6.22	8.25	9.36	.18	1.16	.14	4	7.41	7.14			
101	138	239	77.09	-1.28	75.81	9.28	17.32	.25	2.45	-7.36	6.44	9.28	.19	1.16	.14	4	7.42	7.14			
101	139	240	77.60	-1.47	76.13	7.76	17.04	.52	2.82	-5.56	7.58	9.19	.19	1.16	.14	4	7.43	7.15			
101	140	241	76.86	-1.65	75.21	8.99	16.75	.62	3.19	-6.70	5.79	9.10	.19	1.16	.14	4	7.45	7.16			
101	141	242	77.62	-1.81	75.81	7.47	16.47	.90	3.56	-4.91	6.93	9.01	.19	1.15	.14	4	7.46	7.16			
101	142	243	77.14	-1.96	75.18	8.70	16.18	.99	3.92	-6.04	5.16	8.93	.19	1.14	.14	4	7.47	7.17			
101	143	244	78.15	-2.10	76.05	7.19	15.91	1.26	4.29	-4.27	6.29	8.83	.19	1.13	.14	4	7.49	7.17			
101	144	245	77.91	-2.22	75.69	8.43	15.63	1.36	4.65	-5.41	4.52	8.75	.19	1.12	.14	4	7.50	7.18			
101	145	246	79.17	-2.33	76.84	6.92	15.36	1.62	5.01	-3.64	5.66	8.65	.19	1.11	.14	4	7.51	7.19			
101	146	247	79.18	-2.43	76.75	8.16	15.09	1.72	5.37	-4.78	3.89	8.56	.19	1.10	.12	4	7.53	7.19			
101	147	248	80.67	-2.51	78.16	6.66	14.82	1.99	5.73	-3.02	5.03	8.46	.19	1.08	.12	4	7.54	7.20			
101	148	249	80.92	-2.58	78.34	7.89	14.55	2.08	6.08	-4.16	3.28	8.37	.19	1.07	.12	4	7.55	7.20	77.33	-3.59	-1.01
101	149	250	82.65	-2.64	80.01	6.40	14.30	2.34	6.44	-2.41	4.41	8.27	.19	1.06	.12	4	7.57	7.21	78.65	-4.00	-1.36

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
101	150	251	83.13	-2.68	80.45	7.64	14.03	2.44	6.79	-3.54	2.67	8.18	.19	1.04	.12	4	7.58	7.21	79.05	-4.08	-1.40
101	151	252	85.09	-2.72	82.37	6.15	13.78	2.69	7.14	-1.81	3.80	8.08	.19	1.02	.12	4	7.59	7.22	80.59	-4.50	-1.78
101	152	253	85.80	-2.74	83.06	7.38	13.53	2.79	7.49	-2.95	2.07	7.98	.19	1.00	.12	4	7.61	7.23	81.27	-4.53	-1.79
101	153	254	87.98	-2.75	85.23	5.90	13.28	3.05	7.84	-1.22	3.20	7.87	.19	.98	.12	4	7.62	7.23	83.42	-4.56	-1.81
101	154	255	88.92	-2.74	86.18	7.13	13.03	3.14	8.18	-2.34	1.48	7.78	.19	.96	.12	4	7.63	7.24	84.89	-4.03	-1.29
101	155	256	91.32	-2.73	88.59	5.66	12.79	3.39	8.53	-.63	2.61	7.67	.19	.94	.12	4	7.64	7.24	87.51	-3.81	-1.08
101	156	257	92.48	-2.70	89.78	6.89	12.54	3.49	8.87	-1.76	.90	7.57	.19	.92	.12	4	7.66	7.25	89.06	-3.42	-.72
101	157	258	95.09	-2.66	92.43	5.43	12.31	3.74	9.22	-.05	2.02	7.46	.19	.90	.12	4	7.67	7.26			
101	158	259	96.47	-2.61	93.86	6.64	12.07	3.83	9.55	-1.18	.32	7.36	.19	.87	.12	4	7.68	7.26			
101	159	260	99.29	-2.55	96.74	5.19	11.84	4.08	9.90	.51	1.45	7.25	.19	.85	.12	4	7.69	7.27			
101	160	261	100.88	-2.47	98.41	6.41	11.60	4.17	10.23	-.61	-.24	7.15	.18	.82	.12	4	7.71	7.27			
101	161	262	103.91	-2.38	101.53	4.96	11.36	4.42	10.56	1.09	.89	7.04	.18	.79	.12	4	7.72	7.28			
101	162	263	105.71	-2.29	103.42	6.18	11.14	4.51	10.89	-.04	-.80	6.94	.18	.76	.12	4	7.73	7.28			
101	163	264	108.94	-2.18	106.76	4.73	10.91	4.75	11.22	1.64	.33	6.83	.18	.73	.12	4	7.75	7.29			
101	164	265	110.94	-2.06	108.88	5.95	10.69	4.84	11.55	.51	-1.35	6.72	.18	.70	.12	4	7.76	7.30			
101	165	266	114.36	-1.93	112.43	4.52	10.47	5.08	11.89	2.18	-.23	6.60	.18	.67	.12	4	7.77	7.30			
101	166	267	116.56	-1.79	114.77	5.73	10.25	5.17	12.22	1.05	-1.90	6.49	.18	.64	.12	4	7.78	7.31			
101	167	268	120.18	-1.63	118.55	4.30	10.03	5.41	12.53	2.73	-.77	6.38	.18	.61	.10	4	7.80	7.31			
101	168	269	122.58	-1.47	121.11	5.51	9.81	5.50	12.86	1.60	-2.42	6.28	.18	.59	.10	4	7.81	7.32			
101	169	270	126.38	-1.30	125.08	4.10	9.61	5.74	13.19	3.25	-1.31	6.15	.18	.56	.10	4	7.82	7.33			
101	170	271	128.97	-1.11	127.86	5.30	9.39	5.82	13.50	2.14	-2.95	6.05	.18	.54	.10	4	7.83	7.33			
101	171	272	132.97	-.92	132.05	3.88	9.18	6.05	13.82	3.78	-1.83	5.93	.18	.51	.10	4	7.84	7.34			
101	172	273	135.74	-.71	135.03	5.09	8.97	6.14	14.13	2.66	-3.47	5.82	.18	.10	.32	ALP	7.86	7.34			
101	173	274	139.91	-.50	139.41	3.69	8.78	6.38	14.46	4.29	-2.36	5.70	.18	.11	.31	ALP	7.87	7.35			
101	174	275	142.87	-.28	142.59	4.89	8.58	6.46	14.77	3.17	-3.99	5.58	.18	.13	.30	ALP	7.88	7.36			
101	175	276	147.23	-.04	147.19	3.49	8.37	6.68	15.06	4.81	-2.80	5.48	.17	.19	.28	ALP	7.89	7.36			
101	176	277	150.37	.17	150.54	4.71	8.20	6.74	15.27	3.66	-3.68	5.33	.14	.29	.25	ALP	7.91	7.37			
101	177	278	154.89	-.27	154.62	3.99	8.71	6.88	15.42	4.60	-2.36	4.53		.49	.21	ALP	7.92	7.37			
101	178	279	158.21	-.91	157.30	5.39	9.38	6.96	15.72	3.21	-3.94	3.64		.74	.19	ALP	7.93	7.38			
101	179	280	162.91	-1.57	161.34	4.03	9.43	7.19	16.02	4.79	-2.78	3.46		1.02	.19	ALP	7.94	7.39			
101	180	281	166.40	-2.25	164.15	5.26	9.30	7.27	16.32	3.65	-4.36	3.28		1.30	.19	ALP	7.95	7.39			
101	181	282	171.26	-2.96	168.30	3.92	9.18	7.50	16.63	5.21	-3.22	3.09		1.59	.19	ALP	7.97	7.40			
101	182	283	174.93	-3.69	171.24	5.13	9.05	7.57	16.92	4.08	-4.78	2.92		1.90	.19	ALP	7.98	7.40			
101	183	284	179.96	-4.44	175.52	3.79	8.93	7.79	17.22	5.64	-3.63	2.74		2.21	.19	ALP	7.99	7.41			
101	184	285	183.78	-5.21	178.57	5.02	8.81	7.88	17.52	4.49	-6.84	2.56		2.53	.18	ALP	8.00	7.42			
101	185	286	188.97	-4.37	184.60	2.05	7.06	8.10	17.83	7.68	-5.69	4.01		2.14	.18	ALP	8.01	7.42			
101	186	287	192.97	-3.56	189.41*	3.26	5.30	8.17	18.12	6.54	-7.24	5.47		1.75	.18	ALP	8.02	7.43			
101	187	288	198.32	-2.78	195.54	1.94	5.21	8.39	18.43	8.09	-6.09	5.26		1.38	.18	ALP	8.04	7.43			
101	188	289	202.47	-2.02	200.45	3.16	5.10	8.48	18.72	6.95	-7.63	5.07		1.02	.18	ALP	8.05	7.44			
101	189	290	207.97	-1.30	206.67	1.84	5.01	8.70	19.03	8.48	-6.50	4.86		.68	.18	ALP	8.06	7.45			
101	190	291	212.28	-.60	211.68	3.07	4.91	8.78	19.32	7.33	-8.04	4.66		.35	.17	ALP	8.07	7.45			
101	191	292	217.94	.07	218.01	1.74	4.81	8.99	19.62	8.87		4.46		.08	.07	ALP	8.08	7.46			
101	192	293	222.40	UNSTABLE AGAINST FISSION																	
101	193	294	228.21	UNSTABLE AGAINST FISSION																	
101	194	295	232.83	-.90	231.93			9.48	20.75		-8.08		.20	-.85	.25	ALP	8.12	7.48			
101	195	296	238.78	-1.17	237.61	2.39		9.69	21.04	8.88	-6.98	1.69	.20	-1.03	.27	ALP	8.13	7.48			
101	196	297	243.55	-1.43	242.12	3.56	5.95	9.76	21.31	7.78	-8.52	1.59	.19	-1.19	.28	ALP	8.14	7.49			
101	197	298	249.64	-1.68	247.96	2.23	5.79	9.97	21.59	9.32	-7.42	1.47	.19	-1.34	.28	ALP	8.15	7.49			
101	198	299	254.55	-1.92	252.63	3.40	5.63	10.05	21.87	8.22	-8.97	1.36	.19	-1.47	.29	ALP	8.16	7.50			
101	199	300	260.79	-2.15	258.64	2.06	5.46	10.25	22.15	9.76	-7.87	1.24	.19	-1.60	.29	ALP	8.17	7.51			
101	200	301	265.85	-2.37	263.48	3.23	5.29	10.32	22.42	8.66	-9.40	1.13	.19	-1.72	.29	ALP	8.19	7.51			
101	201	302	272.22	-2.58	269.64	1.91	5.14	10.53	22.70	10.19	-8.31	1.01	.19	-1.83	.29	ALP	8.20	7.52			
101	202	303	277.42	-2.78	274.64	3.07	4.98	10.60	22.97	9.09	-9.84	.90	.19	-1.94	.30	ALP	8.21	7.52			
101	203	304	283.93	-2.96	280.97	1.75	4.82	10.80	23.24	10.62	-8.74	.78	.19	-2.05	.30	ALP	8.22	7.53			
101	204	305	289.27	-3.14	286.13	2.91	4.66	10.87	23.51	9.53	-10.26	.67	.19	-2.15	.30	ALP	8.23	7.54			
101	205	306	295.91	-3.30	292.61	1.59	4.50	11.07	23.78	11.05	-9.17	.55	.19	-2.25	.30	ALP	8.24	7.54			
101	206	307	301.38	-3.46	297.92	2.76	4.35	11.14	24.05	9.94	-10.69	.43	.19	-2.35	.30	ALP	8.25	7.55			
101	207	308	308.16	-3.60	304.56	1.44	4.19	11.34	24.32	11.46	-9.59	.32	.19	-2.45	.30	ALP	8.26	7.55			
101	208	309	313.76	-3.73	310.03	2.60	4.04	11.41	24.58	10.37	-11.10	.21	.19	-2.54	.30	ALP	8.28	7.56			
101	209	310	320.67	-3.85	316.82	1.29	3.88	11.61	24.84	11.88	-10.00	.10	.19	-2.63	.30	ALP	8.29	7.57			
101	210	311	326.40	-3.97	322.43	2.45	3.74	11.68	25.11	10.78	-11.52	-.03	.19	-2.72	.30	ALP	8.30	7.57			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO
102	116	218	127.07	-.95	126.12	12.44	23.44	-2.83	-6.91	-16.59	12.58	12.59	.19	.60	.10	4	7.11	7.04
102	117	219	124.26	-.71	123.55	10.64	23.08	-2.72	-6.50	-14.68	13.73	12.53	.19	.63	.10	4	7.13	7.04
102	118	220	120.00	-.46	119.54	12.08	22.72	-2.44	-6.11	-15.83	11.84	12.49	.19	.65	.10	4	7.14	7.05
102	119	221	117.51	-.19	117.32	10.29	22.37	-2.32	-5.71	-13.93	13.01	12.43	.18	.68	.12	4	7.16	7.05
102	120	222	113.58	.07	113.65	11.74	22.03	-2.05	-5.34	-15.09	11.21	12.37	.17	.71	.12	4	7.17	7.06
102	121	223	111.41	.30	111.71	10.02	21.75	-1.98	-5.04	-13.26	13.11	12.26	.14	.74	.12	4	7.19	7.06
102	122	224	107.80	-.14	107.66	12.12	22.13	-1.77	-4.81	-15.11	11.50	11.51		.77	.12	4	7.20	7.07
102	123	225	105.95	-.83	105.12	10.62	22.73	-1.66	-4.42	-13.54	12.69	10.61		.79	.12	4	7.22	7.08
102	124	226	102.65	-1.56	101.09	12.09	22.72	-1.38	-4.02	-14.73	10.85	10.40		.81	.12	4	7.23	7.08
102	125	227	101.11	-2.31	98.80	10.37	22.46	-1.28	-3.63	-12.89	12.05	10.25		.83	.12	4	7.24	7.09
102	126	228	98.12	-3.09	95.03	11.84	22.21	-.99	-3.24	-14.08	8.57	10.11		.85	.12	4	7.26	7.09
102	127	229	96.87	-2.24	94.63	8.47	20.31	-.88	-2.84	-10.60	9.76	11.62		.87	.12	4	7.27	7.10
102	128	230	94.18	-1.43	92.75	9.95	18.42	-.59	-2.44	-11.79	7.96	13.12		.89	.12	4	7.29	7.10
102	129	231	93.23	-.66	92.57	8.25	18.20	-.49	-2.05	-9.99	9.15	12.93		.90	.12	4	7.30	7.11
102	130	232	90.84	.08	90.92	9.72	17.98	-.21	-1.66	-11.17	7.79	12.77		.92	.12	4	7.32	7.12
102	131	233	90.16	.27	90.43	8.56	18.28	-.01	-1.06	-9.90	9.34	12.06	.15	.93	.12	4	7.33	7.12
102	132	234	88.06	.03	88.09	10.42	18.97	.28	-.63	-11.43	7.54	10.99	.17	.94	.12	4	7.34	7.13
102	133	235	87.67	-.22	87.45	8.72	19.13	.39	-.24	-9.61	8.70	10.23	.18	.95	.12	4	7.36	7.13
102	134	236	85.85	-.48	85.37	10.14	18.87	.67	.16	-10.75	6.88	10.06	.18	.96	.12	4	7.37	7.14
102	135	237	85.73	-.72	85.01	8.43	18.58	.77	.54	-8.93	8.02	9.95	.18	.96	.12	4	7.38	7.14
102	136	238	84.19	-.95	83.24	9.84	18.28	1.04	.91	-10.06	6.22	9.87	.18	.96	.12	4	7.40	7.15
102	137	239	84.33	-1.16	83.17	8.14	17.98	1.15	1.29	-8.25	7.36	9.78	.19	.97	.12	4	7.41	7.16
102	138	240	83.06	-1.37	81.69	9.55	17.69	1.41	1.66	-9.39	5.56	9.69	.19	.97	.12	4	7.43	7.16
102	139	241	83.46	-1.56	81.90	7.86	17.41	1.52	2.04	-7.60	6.69	9.60	.19	.97	.12	4	7.44	7.17

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
102	140	242	82.46	-1.73	80.73	9.25	17.10	1.77	2.39	-8.72	4.92	9.53	.19	.97	.12	4	7.45	7.17			
102	141	243	83.12	-1.90	81.22	7.57	16.83	1.88	2.77	-6.94	6.04	9.43	.19	.96	.12	4	7.47	7.18			
102	142	244	82.37	-2.04	80.33	8.97	16.54	2.14	3.13	-8.06	4.28	9.36	.19	.96	.12	4	7.48	7.19			
102	143	245	83.28	-2.18	81.10	7.29	16.27	2.24	3.50	-6.30	5.41	9.26	.19	.95	.12	4	7.49	7.19			
102	144	246	82.78	-2.30	80.48	8.69	15.99	2.50	3.86	-7.43	3.64	9.18	.19	.95	.12	4	7.51	7.20			
102	145	247	83.94	-2.41	81.53	7.02	15.71	2.60	4.22	-5.66	4.78	9.08	.19	.94	.12	4	7.52	7.20			
102	146	248	83.69	-2.51	81.18	8.42	15.44	2.86	4.58	-6.79	3.02	8.99	.19	.93	.12	4	7.53	7.21			
102	147	249	85.08	-2.59	82.49	6.76	15.18	2.96	4.95	-5.04	4.15	8.89	.19	.92	.12	4	7.55	7.21			
102	148	250	85.08	-2.66	82.42	8.15	14.91	3.21	5.29	-6.16	2.41	8.81	.19	.91	.12	4	7.56	7.22			
102	149	251	86.71	-2.72	83.99	6.50	14.65	3.30	5.65	-4.42	3.54	8.71	.19	.89	.12	4	7.57	7.23	82.78	-3.93	-1.21
102	150	252	86.94	-2.76	84.18	7.88	14.38	3.56	6.00	-5.54	1.81	8.62	.19	.88	.12	4	7.59	7.23	82.87	-4.07	-1.31
102	151	253	88.80	-2.79	86.01	6.24	14.13	3.65	6.35	-3.80	2.94	8.52	.19	.86	.12	4	7.60	7.24	84.35	-4.45	-1.66
102	152	254	89.26	-2.81	86.45	7.63	13.87	3.91	6.70	-4.93	1.21	8.43	.19	.85	.12	4	7.61	7.24	84.75	-4.51	-1.70
102	153	255	91.34	-2.82	88.52	6.00	13.63	4.00	7.05	-3.21	2.34	8.32	.19	.83	.12	4	7.62	7.25	86.87	-4.47	-1.65
102	154	256	92.04	-2.81	89.23	7.37	13.36	4.24	7.38	-4.32	.64	8.24	.19	.81	.12	4	7.64	7.26	87.82	-4.22	-1.41
102	155	257	94.34	-2.80	91.54	5.75	13.13	4.34	7.74	-2.61	1.76	8.12	.19	.79	.12	4	7.65	7.26	90.25	-4.09	-1.29
102	156	258	95.25	-2.77	92.48	7.13	12.88	4.59	8.08	-3.74	.05	8.02	.19	.77	.12	4	7.66	7.27			
102	157	259	97.77	-2.73	95.04	5.51	12.64	4.68	8.42	-2.03	1.18	7.92	.19	.75	.12	4	7.68	7.27			
102	158	260	98.90	-2.68	96.22	6.89	12.41	4.93	8.76	-3.16	-.53	7.81	.19	.72	.12	4	7.69	7.28			
102	159	261	101.63	-2.61	99.02	5.28	12.17	5.02	9.10	-1.45	.61	7.71	.19	.70	.12	4	7.70	7.28			
102	160	262	102.98	-2.54	100.44	6.65	11.93	5.26	9.43	-2.57	-1.09	7.61	.19	.67	.12	4	7.71	7.29			
102	161	263	105.92	-2.45	103.47	5.05	11.69	5.35	9.76	-.88	.05	7.51	.19	.65	.12	4	7.73	7.30			
102	162	264	107.47	-2.35	105.12	6.42	11.47	5.59	10.10	-2.00	-1.64	7.40	.19	.63	.10	4	7.74	7.30			
102	163	265	110.61	-2.24	108.37	4.83	11.24	5.68	10.43	-.32	-.51	7.29	.19	.61	.10	4	7.75	7.31			
102	164	266	112.37	-2.12	110.25	6.19	11.01	5.92	10.76	-1.44	-2.18	7.19	.19	.59	.10	4	7.76	7.31			
102	165	267	115.71	-1.99	113.72	4.60	10.79	6.01	11.09	.24	-1.06	7.08	.19	.57	.10	4	7.78	7.32			
102	166	268	117.67	-1.85	115.82	5.97	10.57	6.25	11.42	-.89	-2.73	6.96	.18	.54	.10	4	7.79	7.33			
102	167	269	121.20	-1.70	119.50	4.39	10.36	6.33	11.75	.77	-1.61	6.85	.18	.52	.10	4	7.80	7.33			
102	168	270	123.36	-1.53	121.83	5.75	10.14	6.57	12.06	-.34	-3.26	6.75	.18	.50	.10	4	7.81	7.34			
102	169	271	127.08	-1.36	125.72	4.18	9.93	6.66	12.39	1.31	-2.14	6.63	.18	-.07	.33	ALP	7.83	7.34			
102	170	272	129.44	-1.17	128.27	5.53	9.70	6.88	12.70	.21	-3.78	6.53	.18	-.08	.33	ALP	7.84	7.35			
102	171	273	133.34	-.98	132.36	3.98	9.51	6.97	13.03	1.84	-2.67	6.40	.18	-.08	.32	ALP	7.85	7.36			
102	172	274	135.89	-.77	135.12	5.32	9.29	7.20	13.34	.74	-4.30	6.30	.18	-.07	.31	ALP	7.86	7.36			
102	173	275	139.98	-.56	139.42	3.77	9.09	7.28	13.66	2.37	-3.18	6.18	.18	-.05	.30	ALP	7.88	7.37			
102	174	276	142.71	-.33	142.38	5.11	8.88	7.51	13.97	1.26	-4.80	6.08	.18	-.01	.29	ALP	7.89	7.37			
102	175	277	146.98	-.10	146.88	3.57	8.68	7.59	14.28	2.89	-3.66	5.95	.17	.06	.27	ALP	7.90	7.38			
102	176	278	149.89	.13	150.02	4.93	8.50	7.80	14.55	1.76	-4.61	5.83	.15	.19	.24	ALP	7.91	7.38			
102	177	279	154.33	-.24	154.09	4.01	8.93	7.83	14.71	2.76	-3.21	5.09		.42	.20	ALP	7.92	7.39			
102	178	280	157.43	-.88	156.55	5.61	9.62	8.04	15.00	1.35	-4.79	4.14		.68	.19	ALP	7.94	7.40			
102	179	281	162.04	-1.54	160.50	4.12	9.74	8.13	15.32	2.93	-3.64	3.86		.95	.19	ALP	7.95	7.40			
102	180	282	165.31	-2.22	163.09	5.49	9.60	8.35	15.61	1.79	-5.21	3.69		1.24	.19	ALP	7.96	7.41			
102	181	283	170.09	-2.93	167.16	4.00	9.48	8.43	15.92	3.35	-4.08	3.50		1.53	.18	ALP	7.97	7.41			
102	182	284	173.54	-3.66	169.88	5.35	9.35	8.64	16.22	2.22	-5.64	3.33		1.84	.18	ALP	7.98	7.42			
102	183	285	178.48	-4.41	174.07	3.88	9.24	8.73	16.53	3.77	-4.50	3.14		2.15	.18	ALP	8.00	7.43			
102	184	286	182.09	-5.18	176.91	5.24	9.11	8.95	16.82	2.64	-7.69	2.97		2.47	.18	ALP	8.01	7.43			
102	185	287	187.21	-4.34	182.87	2.12	7.35	9.02	17.12	5.83	-6.54	4.43		2.08	.18	ALP	8.02	7.44			
102	186	288	190.98	-3.53	187.45	3.49	5.61	9.24	17.42	4.69	-8.09	5.87		1.70	.18	ALP	8.03	7.44			
102	187	289	196.25	-2.75	193.50	2.02	5.51	9.32	17.73	6.24	-6.94	5.67		1.33	.18	ALP	8.04	7.45			
102	188	290	200.19	-2.00	198.19	3.38	5.41	9.54	18.02	5.10	-8.48	5.47		.97	.18	ALP	8.05	7.46			
102	189	291	205.62	-1.27	204.35	1.92	5.30	9.61	18.31	6.65	-7.33	5.28		.63	.18	ALP	8.07	7.46			
102	190	292	209.71	-.57	209.14	3.28	5.20	9.84	18.61	5.50	-8.87	5.08		.30	.17	ALP	8.08	7.47			
102	191	293	215.29	UNSTABLE AGAINST FISSION																	
102	192	294	219.55	UNSTABLE AGAINST FISSION																	
102	193	295	225.28	UNSTABLE AGAINST FISSION																	
102	194	296	229.69	-.95	228.74			10.48	19.96		-8.87		.20	-.93	.24	ALP	8.12	7.49			
102	195	297	235.56	-1.22	234.34	2.47		10.56	20.25	7.02	-7.77	2.20	.20	-1.12	.26	ALP	8.13	7.50			
102	196	298	240.12	-1.48	238.64	3.78	6.24	10.76	20.53	5.92	-9.32	2.09	.19	-1.29	.27	ALP	8.15	7.50			
102	197	299	246.14	-1.73	244.41	2.30	6.08	10.84	20.81	7.46	-8.22	1.97	.19	-1.44	.28	ALP	8.16	7.51			
102	198	300	250.85	-1.97	248.88	3.61	5.90	11.04	21.08	6.37	-9.76	1.87	.19	-1.57	.28	ALP	8.17	7.52			
102	199	301	257.02	-2.20	254.82	2.13	5.74	11.11	21.36	7.91	-8.65	1.76	.19	-1.70	.29	ALP	8.18	7.52			
102	200	302	261.87	-2.42	259.45	3.43	5.57	11.31	21.63	6.81	-10.19	1.64	.19	-1.82	.29	ALP	8.19	7.53			
102	201	303	268.17	-2.62	265.55	1.98	5.41	11.38	21.91	8.35	-9.09	1.53	.19	-1.94	.29	ALP	8.20	7.53			
102	202	304	273.17	-2.82	270.35	3.27	5.24	11.58	22.18	7.26	-10.62	1.42	.19	-2.05	.29	ALP	8.21	7.54			
102	203	305	279.61	-3.00	276.61	1.81	5.08	11.65	22.45	8.79	-9.52	1.31	.19	-2.15	.29	ALP	8.23	7.55			
102	204	306	284.74	-3.18	281.56	3.11	4.93	11.85	22.73	7.69	-11.05	1.18	.19	-2.25	.30	ALP	8.24	7.55			
102	205	307	291.32	-3.34	287.98	1.66	4.77	11.92	22.99	9.22	-9.95	1.07	.19	-2.35	.30	ALP	8.25	7.56			
102	206	308	296.59	-3.49	293.10	2.95	4.61	12.12	23.26	8.13	-11.46	.97	.19	-2.45	.30	ALP	8.26	7.56			
102	207	309	303.29	-3.64	299.65	1.51	4.47	12.19	23.54	9.63	-10.38	.83	.19	-2.54	.30	ALP	8.27	7.57			
102	208	310	308.70	-3.77	304.93	2.80	4.31	12.39	23.80	8.55	-11.88	.73	.19	-2.63	.30	ALP	8.28	7.58			
102	209	311	315.54	-3.89	311.65	1.36	4.15	12.45	24.06	10.06	-10.79	.61	.19	-2.72	.30	ALP	8.29	7.58			
102	210	312	321.08	-4.00	317.08	2.64	4.00	12.65	24.32	8.97	-12.29	.50	.19	-2.81	.30	ALP	8.30	7.59			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	NEU	PRO	EXP MASS	EXP SHELL	DIFF
103	126	229	108.32	-3.09	105.23	11.95	22.61	-2.91	-3.90	-13.10	10.60	10.38		.65	.10	4	7.27	7.11			
103	127	230	106.79	-2.24	104.55	8.76	20.70	-2.63	-3.51	-9.63	11.80	11.89		.67	.10	4	7.28	7.12			
103	128	231	103.99	-1.43	102.56	10.06	18.82	-2.51	-3.12	-10.82	9.99	13.39		.68	.12	4	7.29	7.12			
103	129	232	102.75	-.66	102.09	8.54	18.60	-2.23	-2.72	-9.03	11.17	13.21		.70	.12	4	7.31	7.13			
103	130	233	100.25	.07	100.32	9.84	18.38	-2.12	-2.32	-10.22	9.88	13.03		.72	.12	4	7.32	7.13			
103	131	234	99.30	.22	99.52	8.88	18.71	-1.79	-1.81	-8.98	11.42	12.30	.15	.73	.12	4	7.34	7.14			
103	132	235	97.09	-.04	97.05	10.54	19.42	-1.67	-1.38	-10.52	9.60	11.21	.17	.74	.12	4	7.35	7.15			
103	133	236	96.42	-.30	96.12	9.01	19.54	-1.39	-.99	-8.71	10.75	10.56	.18	.75	.12	4	7.36	7.15			
103	134	237	94.50	-.55	93.95	10.25	19.25	-1.28	-.62	-9.83	8.94	10.44	.18	.76	.12	4	7.38	7.16			
103	135	238	94.10	-.80	93.30	8.71	18.96	-1.00	-.23	-8.03	10.06	10.33	.19	.77	.12	4	7.39	7.16			
103	136	239	92.45	-1.03	91.42	9.95	18.66	-.90	.15	-9.17	8.25	10.25	.19	.77	.12	4	7.41	7.17			
103	137	240	92.32	-1.24	91.08	8.42	18.36	-.62	.52	-7.36	9.39	10.16	.19	.78	.12	4	7.42	7.17			
103	138	241	90.95	-1.44	89.51	9.65	18.06	-.53	.88	-8.48	7.60	10.10	.19	.78	.12	4	7.43	7.18			
103	139	242	91.08	-1.63	89.45	8.13	17.77	-.25	1.26	-6.70	8.73	10.00	.19	.78	.12	4	7.45	7.19			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP NEU	RADIUS PRO	EXPERIMENTAL MASS	SHELL	DIFF
103	140	243	89.97	-1.81	88.16	9.36	17.49	-.15	1.63	-7.84	6.94	9.92	.19	.78	.12	4	7.46	7.19			
103	141	244	90.36	-1.97	88.39	7.84	17.20	.12	2.00	-6.06	8.07	9.83	.19	.78	.12	4	7.47	7.20			
103	142	245	89.51	-2.12	87.39	9.07	16.92	.22	2.36	-7.19	6.29	9.75	.19	.78	.12	4	7.49	7.20			
103	143	246	90.16	-2.25	87.91	7.56	16.63	.48	2.72	-5.41	7.43	9.67	.19	.78	.12	4	7.50	7.21			
103	144	247	89.56	-2.37	87.19	8.79	16.35	.58	3.08	-6.54	5.66	9.59	.19	.77	.12	4	7.51	7.21			
103	145	248	90.45	-2.48	87.97	7.29	16.08	.85	3.45	-4.78	6.79	9.49	.19	.76	.12	4	7.53	7.22			
103	146	249	90.10	-2.57	87.53	8.52	15.80	.95	3.80	-5.91	5.03	9.41	.19	.76	.12	4	7.54	7.23			
103	147	250	91.24	-2.65	88.59	7.02	15.53	1.20	4.15	-4.15	6.17	9.33	.19	.75	.12	4	7.55	7.23			
103	148	251	91.13	-2.72	88.41	8.25	15.26	1.30	4.51	-5.28	4.42	9.23	.19	.74	.12	4	7.57	7.24			
103	149	252	92.50	-2.78	89.72	6.76	15.00	1.56	4.87	-3.55	5.54	9.13	.19	.73	.12	4	7.58	7.24			
103	150	253	92.63	-2.82	89.81	7.99	14.74	1.66	5.22	-4.67	3.80	9.04	.19	.71	.12	4	7.59	7.25			
103	151	254	94.23	-2.85	91.38	6.51	14.48	1.92	5.57	-2.94	4.93	8.95	.19	.70	.12	4	7.61	7.26			
103	152	255	94.60	-2.87	91.73	7.73	14.22	2.01	5.91	-4.06	3.21	8.86	.19	.69	.12	4	7.62	7.26			
103	153	256	96.43	-2.88	93.55	6.25	13.97	2.26	6.26	-2.34	4.33	8.75	.19	.67	.12	4	7.63	7.27	91.82	-4.61	-1.73
103	154	257	97.03	-2.87	94.16	7.47	13.71	2.35	6.60	-3.46	2.62	8.67	.19	.65	.10	4	7.64	7.27	92.70	-4.33	-1.46
103	155	258	99.08	-2.86	96.22	6.00	13.47	2.61	6.95	-1.75	3.74	8.56	.19	.64	.10	4	7.66	7.28			
103	156	259	99.90	-2.83	97.07	7.22	13.23	2.70	7.29	-2.88	2.03	8.46	.19	.63	.10	4	7.67	7.28			
103	157	260	102.16	-2.79	99.37	5.77	12.99	2.96	7.64	-1.18	3.14	8.35	.19	.61	.10	4	7.68	7.29			
103	158	261	103.20	-2.73	100.47	6.98	12.74	3.05	7.97	-2.30	1.45	8.26	.19	.60	.10	4	7.70	7.30			
103	159	262	105.68	-2.67	103.01	5.53	12.51	3.30	8.32	-.61	2.57	8.15	.19	.58	.10	4	7.71	7.30			
103	160	263	106.94	-2.59	104.35	6.74	12.26	3.38	8.64	-1.72	.89	8.06	.19	.56	.10	4	7.72	7.31			
103	161	264	109.63	-2.50	107.13	5.29	12.03	3.63	8.97	-.03	2.01	7.96	.19	.55	.10	4	7.73	7.31			
103	162	265	111.09	-2.41	108.68	6.51	11.81	3.73	9.32	-1.16	.31	7.84	.19	.53	.10	4	7.75	7.32			
103	163	266	113.99	-2.30	111.69	5.07	11.58	3.96	9.65	.52	1.44	7.74	.19	.51	.10	4	7.76	7.32			
103	164	267	115.66	-2.18	113.48	6.28	11.35	4.05	9.98	-.60	-.24	7.63	.19	-.20	.35	ALP	7.77	7.33			
103	165	268	118.75	-2.04	116.71	4.85	11.12	4.30	10.30	1.07	.89	7.53	.18	-.22	.34	ALP	7.78	7.34			
103	166	269	120.63	-1.90	118.73	6.05	10.90	4.38	10.63	-.04	-.78	7.43	.18	-.24	.34	ALP	7.80	7.34			
103	167	270	123.92	-1.75	122.17	4.63	10.68	4.62	10.96	1.61	.34	7.31	.18	-.25	.33	ALP	7.81	7.35			
103	168	271	125.99	-1.58	124.41	5.83	10.46	4.71	11.28	.50	-1.31	7.21	.18	-.26	.33	ALP	7.82	7.35			
103	169	272	129.47	-1.41	128.06	4.42	10.25	4.95	11.61	2.15	-.21	7.09	.18	-.27	.33	ALP	7.83	7.36			
103	170	273	131.74	-1.22	130.52	5.62	10.03	5.04	11.92	1.04	-1.85	6.99	.18	-.27	.32	ALP	7.85	7.37			
103	171	274	135.41	-1.03	134.38	4.21	9.83	5.27	12.25	2.67	-.74	6.87	.18	-.26	.31	ALP	7.86	7.37			
103	172	275	137.87	-.82	137.05	5.41	9.61	5.36	12.56	1.57	-2.37	6.76	.18	-.24	.31	ALP	7.87	7.38			
103	173	276	141.72	-.61	141.11	4.01	9.42	5.60	12.88	3.19	-1.27	6.64	.18	-.21	.29	ALP	7.88	7.38			
103	174	277	144.37	-.38	143.99	5.20	9.20	5.68	13.19	2.09	-2.89	6.54	.18	-.15	.28	ALP	7.89	7.39			
103	175	278	148.41	-.14	148.27	3.80	8.99	5.90	13.49	3.72	-1.75	6.43	.18	-.06	.26	ALP	7.91	7.40			
103	176	279	151.24	.10	151.34	4.99	8.79	5.98	13.78	2.60	-2.75	6.32	.16	.11	.21	ALP	7.92	7.40			
103	177	280	155.45	-.25	155.20	4.20	9.21	6.18	14.00		-1.35	5.59		.36	.19	ALP	7.93	7.41			
103	178	281	158.46	-.88	157.58	5.70	9.90	6.26	14.30	2.21	-2.92	4.62		.63	.18	ALP	7.94	7.41			
103	179	282	162.85	-1.54	161.31	4.34	10.04	6.48	14.61	3.79	-1.78	4.26		.90	.18	ALP	7.95	7.42			
103	180	283	166.03	-2.23	163.80	5.57	9.92	6.57	14.92	2.64	-3.36	4.07		1.19	.18	ALP	7.97	7.42			
103	181	284	170.59	-2.93	167.66	4.22	9.79	6.79	15.22	4.21	-2.22	3.90		1.48	.18	ALP	7.98	7.43			
103	182	285	173.95	-3.65	170.30	5.44	9.65	6.87	15.51	3.08	-3.78	3.73		1.79	.18	ALP	7.99	7.44			
103	183	286	178.68	-4.40	174.28	4.09	9.53	7.09	15.81	4.64	-2.64	3.55		2.10	.18	ALP	8.00	7.44			
103	184	287	182.21	-5.17	177.04	5.31	9.40	7.17	16.11	3.50	-5.83	3.38		2.42	.18	ALP	8.01	7.45			
103	185	288	187.09	-4.33	182.76	2.35	7.66	7.40	16.42	6.68	-4.69	4.82		2.03	.18	ALP	8.03	7.45			
103	186	289	190.79	-3.53	187.26	3.57	5.92	7.48	16.72	5.53	-6.24	6.26		1.65	.18	ALP	8.04	7.46			
103	187	290	195.84	-2.75	193.09	2.24	5.81	7.70	17.03	7.08	-5.10	6.06		1.28	.18	ALP	8.05	7.47			
103	188	291	199.70	-2.00	197.70	3.46	5.71	7.78	17.32	5.94	-6.65	5.87		.93	.18	ALP	8.06	7.47			
103	189	292	204.91	-1.27	203.64	2.14	5.60	8.00	17.61	7.48	-5.50	5.68		.59	.17	ALP	8.07	7.48			
103	190	293	208.93	-.58	208.35	3.36	5.50	8.08	17.91	6.34		5.48		.27	.16	ALP	8.08	7.48			
103	191	294	214.29	UNSTABLE AGAINST FISSION																	
103	192	295	218.47	UNSTABLE AGAINST FISSION																	
103	193	296	223.99	UNSTABLE AGAINST FISSION																	
103	194	297	228.32	-1.00	227.32			8.71	19.19		-7.02		.21	-1.00	.23	ALP	8.13	7.51			
103	195	298	233.98	-1.26	232.72	2.67		8.92	19.47		-5.92		.20	-1.20	.25	ALP	8.14	7.51			
103	196	299	238.47	-1.52	236.95	3.84	6.51	8.98	19.74	6.72	-7.46	2.59	.20	-1.38	.27	ALP	8.15	7.52			
103	197	300	244.28	-1.77	242.51	2.51	6.35	9.19	20.03	8.26	-6.37	2.47	.19	-1.53	.27	ALP	8.16	7.53			
103	198	301	248.91	-2.01	246.90	3.68	6.19	9.27	20.31	7.16	-7.92	2.36	.19	-1.67	.28	ALP	8.18	7.53			
103	199	302	254.87	-2.23	252.64	2.34	6.01	9.47	20.58	8.70	-6.81	2.26	.19	-1.80	.28	ALP	8.19	7.54			
103	200	303	259.65	-2.45	257.20	3.51	5.85	9.54	20.85	7.61	-8.35	2.15	.19	-1.92	.29	ALP	8.20	7.54			
103	201	304	265.74	-2.65	263.09	2.18	5.69	9.75	21.13	9.14	-7.26	2.03	.19	-2.04	.29	ALP	8.21	7.55			
103	202	305	270.67	-2.85	267.82	3.34	5.52	9.82	21.40	8.05	-8.78	1.92	.19	-2.15	.29	ALP	8.22	7.56			
103	203	306	276.90	-3.03	273.87	2.02	5.36	10.03	21.68	9.57	-7.69	1.80	.19	-2.25	.29	ALP	8.23	7.56			
103	204	307	281.97	-3.21	278.76	3.18	5.20	10.09	21.95	8.48	-9.22	1.69	.19	-2.35	.29	ALP	8.24	7.57			
103	205	308	288.34	-3.37	284.97	1.86	5.04	10.29	22.22	10.00	-8.13	1.58	.19	-2.45	.29	ALP	8.25	7.57			
103	206	309	293.54	-3.52	290.02	3.02	4.88	10.36	22.49	8.91	-9.64	1.47	.19	-2.55	.30	ALP	8.27	7.58			
103	207	310	300.05	-3.66	296.39	1.70	4.72	10.56	22.75	10.43	-8.55	1.36	.19	-2.64	.29	ALP	8.28	7.59			
103	208	311	305.38	-3.79	301.59	2.87	4.57	10.64	23.02	9.33	-10.06	1.24	.19	-2.73	.30	ALP	8.29	7.59			
103	209	312	312.02	-3.91	308.11	1.56	4.42	10.83	23.28	10.84	-8.97	1.13	.19	-2.82	.30	ALP	8.30	7.60			
103	210	313	317.49	-4.02	313.47	2.71	4.26	10.90	23.55	9.75	-10.47	1.01	.19	-2.90	.30	ALP	8.31	7.60			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF	I	SHARP NEU	RADIUS PRO	EXPERIMENTAL MASS	SHELL	DIFF
104	120	224	135.14	-.09	135.05	12.12	22.81	-2.79	-6.82	-16.19	12.28	13.09	.19	-.01	.27	ALP	7.19	7.10			
104	121	225	132.57	.19	132.76	10.36	22.48	-2.70	-6.47	-14.32	14.10	13.02	.16	.23	.24	ALP	7.20	7.10			
104	122	226	128.56	-.19	128.37	12.46	22.82	-2.43	-6.13		12.55	12.29		.53	.22	ALP	7.22	7.11			
104	123	227	126.31	-.88	125.43	11.02	23.47	-2.32	-5.74	-14.59	13.74	11.30		.85	.21	ALP	7.23	7.11			
104	124	228	122.62	-1.60	121.02	12.48	23.50	-2.04	-5.35	-15.77	11.91	10.93		1.18	.21	ALP	7.25	7.12			
104	125	229	120.68	-2.34	118.34	10.76	23.24	-1.94	-4.96	-13.94	13.11	10.80		1.53	.20	ALP	7.26	7.12			
104	126	230	117.30	-3.12	114.18	12.23	22.99	-1.66	-4.57	-15.12	9.64	10.66		.51	.10	4	7.27	7.13			
104	127	231	115.66	-2.28	113.38	8.87	21.10	-1.55	-4.17	-11.66	10.82	12.16		.52	.10	4	7.29	7.14			
104	128	232	112.59	-1.47	111.12	10.33	19.20	-1.27	-3.79	-12.83	9.03	13.67		.54	.10	4	7.30	7.14			
104	129	233	111.24	-.70	110.54	8.65	18.99	-1.16	-3.39	-11.04	10.21	13.49		.55	.10	4	7.32	7.15			
104	130	234	108.47	.03	108.50	10.11	18.76	-.89	-3.00	-12.22	8.98	13.32		.56	.10	4	7.33	7.15			
104	131	235	107.41	.17	107.58	8.99	19.10	-.77	-2.56	-10.99	10.52	12.58	.16	.57	.10	4	7.34	7.16			
104	132	236	104.93	-.10	104.83	10.81	19.81	-.49	-2.15	-12.57	8.71	11.49	.18	.58	.10	4	7.36	7.16			
104	133	237	104.15	-.37	103.78	9.11	19.94	-.37	-1.76	-10.75	9.84	10.92	.18	.59	.10	4	7.37	7.17			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
104	134	238	101.95	-.62	101.33	10.53	19.64	-.10	-1.38	-11.88	8.03	10.81	.19	.60	.10 4	7.39	7.18			
104	135	239	101.45	-.86	100.59	8.82	19.34		-1.00	-10.06	9.17	10.72	.19	.60	.10 4	7.40	7.18			
104	136	240	99.53	-1.09	98.44	10.22	19.03	.28	-.62	-11.19	7.36	10.64	.19	.61	.10 4	7.41	7.19			
104	137	241	99.30	-1.31	97.99	8.52	18.74	.38	-.25	-9.39	8.49	10.55	.19	.61	.10 4	7.43	7.19			
104	138	242	97.66	-1.51	96.15	9.92	18.43	.64	.12	-10.52	6.70	10.49	.19	.62	.10 4	7.44	7.20			
104	139	243	97.69	-1.70	95.99	8.23	18.15	.74	.50	-8.73	7.83	10.40	.19	.62	.10 4	7.45	7.20			
104	140	244	96.32	-1.87	94.45	9.62	17.84	1.00	.85	-9.85	6.06	10.33	.19	.62	.10 4	7.47	7.21			
104	141	245	96.61	-2.03	94.58	7.94	17.56	1.10	1.22	-8.07	7.18	10.25	.19	.62	.10 4	7.48	7.21			
104	142	246	95.49	-2.18	93.31	9.34	17.28	1.37	1.59	-9.20	5.40	10.16	.19	.62	.10 4	7.49	7.22			
104	143	247	96.04	-2.31	93.73	7.66	16.99	1.46	1.95	-7.42	6.54	10.08	.19	.62	.10 4	7.51	7.23			
104	144	248	95.18	-2.43	92.75	9.05	16.71	1.73	2.31	-8.55	4.78	10.00	.19	.62	.10 4	7.52	7.23			
104	145	249	95.97	-2.54	93.43	7.39	16.44	1.83	2.68	-6.79	5.90	9.90	.19	.61	.10 4	7.53	7.24			
104	146	250	95.37	-2.63	92.74	8.77	16.16	2.08	3.02	-7.91	4.16	9.83	.19	.61	.10 4	7.55	7.24			
104	147	251	96.40	-2.71	93.69	7.12	15.89	2.18	3.38	-6.16	5.28	9.74	.19	.60	.10 4	7.56	7.25			
104	148	252	96.04	-2.78	93.26	8.50	15.62	2.43	3.74	-7.28	3.54	9.65	.19	.60	.10 4	7.57	7.26			
104	149	253	97.31	-2.83	94.48	6.86	15.36	2.53	4.09	-5.54	4.67	9.56	.19	.59	.10 4	7.59	7.26			
104	150	254	97.20	-2.87	94.33	8.23	15.08	2.77	4.43	-6.65	2.95	9.49	.19	.58	.10 4	7.60	7.27			
104	151	255	98.70	-2.90	95.80	6.60	14.83	2.87	4.78	-4.92	4.07	9.38	.19	.57	.10 4	7.61	7.27			
104	152	256	98.82	-2.92	95.90	7.97	14.56	3.12	5.13	-6.04	2.35	9.30	.19	.56	.10 4	7.63	7.28			
104	153	257	100.55	-2.93	97.62	6.34	14.32	3.22	5.48	-4.32	3.47	9.19	.19	.55	.10 4	7.64	7.28			
104	154	258	100.90	-2.92	97.98	7.71	14.06	3.46	5.82	-5.44	1.76	9.11	.19	.54	.10 4	7.65	7.29			
104	155	259	102.85	-2.90	99.95	6.10	13.81	3.56	6.17	-3.73	2.88	9.00	.19	.53	.10 4	7.66	7.30			
104	156	260	103.43	-2.87	100.56	7.46	13.56	3.80	6.50	-4.84	1.18	8.91	.19	.52	.10 4	7.68	7.30			
104	157	261	105.60	-2.83	102.77	5.85	13.32	3.90	6.85	-3.14	2.30	8.80	.19	.50	.10 4	7.69	7.31			
104	158	262	106.39	-2.78	103.61	7.23	13.09	4.15	7.20	-4.26	.60	8.70	.19	-.34	.35ALP	7.70	7.31			
104	159	263	108.78	-2.71	106.07	5.62	12.84	4.24	7.53	-2.56	1.72	8.60	.19	-.36	.35ALP	7.72	7.32			
104	160	264	109.79	-2.64	107.15	6.99	12.61	4.48	7.87	-3.69	.03	8.50	.19	-.38	.35ALP	7.73	7.32			
104	161	265	112.39	-2.55	109.84	5.39	12.37	4.57	8.20	-1.99	1.15	8.39	.19	-.39	.35ALP	7.74	7.33			
104	162	266	113.62	-2.45	111.17	6.74	12.13	4.81	8.53	-3.10	-.52	8.30	.19	-.41	.34ALP	7.75	7.34			
104	163	267	116.42	-2.34	114.08	5.16	11.91	4.90	8.86	-1.43	.60	8.19	.19	-.42	.34ALP	7.77	7.34			
104	164	268	117.85	-2.22	115.63	6.52	11.68	5.14	9.20	-2.55	-1.08	8.08	.19	-.44	.34ALP	7.78	7.35			
104	165	269	120.86	-2.08	118.78	4.93	11.44	5.22	9.51	-.86	.05	7.99	.19	-.45	.34ALP	7.79	7.35			
104	166	270	122.50	-1.94	120.56	6.29	11.22	5.46	9.84	-1.98	-1.61	7.89	.19	-.46	.33ALP	7.80	7.36			
104	167	271	125.70	-1.79	123.91	4.71	11.01	5.55	10.17	-.32	-.50	7.77	.19	-.46	.33ALP	7.82	7.37			
104	168	272	127.54	-1.62	125.92	6.06	10.78	5.78	10.49	-1.43	-2.14	7.67	.19	-.47	.32ALP	7.83	7.37			
104	169	273	130.93	-1.45	129.48	4.50	10.57	5.87	10.82	.22	-1.04	7.55	.19	-.46	.32ALP	7.84	7.38			
104	170	274	132.97	-1.26	131.71	5.85	10.35	6.10	11.13	-.88	-2.67	7.45	.18	-.45	.31ALP	7.85	7.38			
104	171	275	136.55	-1.07	135.48	4.29	10.15	6.19	11.46	.75	-1.57	7.33	.18	-.43	.31ALP	7.86	7.39			
104	172	276	138.78	-.86	137.92	5.64	9.93	6.42	11.78	-.35	-3.20	7.23	.19	-.40	.30ALP	7.88	7.39			
104	173	277	142.55	-.64	141.91	4.09	9.72	6.50	12.09	1.29	-2.08	7.12	.19	-.35	.29ALP	7.89	7.40			
104	174	278	144.97	-.42	144.55	5.42	9.51	6.73	12.41	.18	-3.71	7.01	.19	-.27	.27ALP	7.90	7.41			
104	175	279	148.92	-.18	148.74	3.88	9.31	6.81	12.72	1.81	-2.59	6.89	.19	-.15	.24ALP	7.91	7.41			
104	176	280	151.52	UNSTABLE AGAINST FISSION																
104	177	281	155.65	-.28	155.37		9.51	7.12	13.30		-2.20	6.07		.32	.18ALP	7.94	7.42			
104	178	282	158.44	-.92	157.52	5.92		7.34	13.61	.35	-3.78	5.07		.59	.18ALP	7.95	7.43			
104	179	283	162.74	-1.58	161.16	4.43	10.35	7.43	13.92	1.92	-2.65	4.64		.86	.18ALP	7.96	7.44			
104	180	284	165.71	-2.26	163.45	5.78	10.21	7.64	14.21	.79	-4.21	4.48		1.15	.18ALP	7.97	7.44			
104	181	285	170.18	-2.96	167.22	4.30	10.09	7.73	14.52	2.36	-3.08	4.29		1.44	.18ALP	7.98	7.45			
104	182	286	173.32	-3.68	169.64	5.66	9.95	7.95	14.82	1.23	-4.63	4.13		1.75	.18ALP	8.00	7.45			
104	183	287	177.97	-4.43	173.54	4.17	9.83	8.02	15.12	2.79	-3.50	3.95		2.06	.18ALP	8.01	7.46			
104	184	288	181.28	-5.19	176.09	5.52	9.69	8.24	15.41	1.66	-6.67	3.79		2.38	.18ALP	8.02	7.46			
104	185	289	186.09	-4.36	181.73	2.43	7.95	8.32	15.72	4.84	-5.53	5.23		1.99	.18ALP	8.03	7.47			
104	186	290	189.57	-3.55	186.02	3.78	6.21	8.54	16.01	3.71	-7.07	6.68		1.62	.18ALP	8.04	7.48			
104	187	291	194.54	-2.78	191.76	2.32	6.11	8.62	16.32	5.24	-5.94	6.47		1.25	.18ALP	8.05	7.48			
104	188	292	198.18	-2.03	196.15	3.68	6.01	8.84	16.62	4.11	-7.49	6.27		.90	.18ALP	8.07	7.49			
104	189	293	203.31	-1.31	202.00	2.22	5.90	8.92	16.92	5.64	-6.35	6.07		.56	.17ALP	8.08	7.49			
104	190	294	207.12	-.61	206.51	3.57	5.79	9.13	17.21	4.52		5.89		.25	.16ALP	8.09	7.50			
104	191	295	212.41	.05	212.46	2.12	5.69			6.05		5.69		.06	.04ALP	8.10	7.51			
104	192	296	216.37	UNSTABLE AGAINST FISSION																
104	193	297	221.81	UNSTABLE AGAINST FISSION																
104	194	298	225.94	UNSTABLE AGAINST FISSION																
104	195	299	231.53	-1.30	230.23			9.78	18.69		-6.72		.21	-1.28	.24ALP	8.15	7.53			
104	196	300	235.80	-1.55	234.25	4.05		9.99	18.97	4.88	-8.26	3.09	.20	-1.46	.26ALP	8.16	7.54			
104	197	301	241.54	-1.80	239.74	2.58	6.63	10.06	19.25	6.42	-7.17	2.97	.20	-1.62	.27ALP	8.17	7.54			
104	198	302	245.97	-2.03	243.94	3.88	6.45	10.26	19.52	5.33	-8.70	2.87	.19	-1.76	.27ALP	8.18	7.55			
104	199	303	251.85	-2.26	249.59	2.42	6.30	10.33	19.80	6.86	-7.61	2.75	.19	-1.89	.28ALP	8.19	7.55			
104	200	304	256.43	-2.47	253.96	3.71	6.12	10.53	20.07	5.78	-9.13	2.65	.19	-2.02	.28ALP	8.20	7.56			
104	201	305	262.45	-2.68	259.77	2.25	5.97	10.61	20.36	7.30	-8.05	2.53	.19	-2.13	.28ALP	8.22	7.56			
104	202	306	267.17	-2.87	264.30	3.54	5.80	10.81	20.63	6.22	-9.57	2.42	.19	-2.24	.29ALP	8.23	7.57			
104	203	307	273.33	-3.05	270.28	2.10	5.64	10.88	20.90	7.74	-8.48	2.31	.19	-2.35	.29ALP	8.24	7.58			
104	204	308	278.20	-3.23	274.97	3.38	5.47	11.07	21.17	6.65	-10.00	2.20	.19	-2.45	.29ALP	8.25	7.58			
104	205	309	284.50	-3.39	281.11	1.93	5.31	11.15	21.44	8.17	-8.91	2.08	.19	-2.55	.29ALP	8.26	7.59			
104	206	310	289.50	-3.54	285.96	3.22	5.16	11.35	21.71	7.09	-10.42	1.97	.19	-2.65	.29ALP	8.27	7.59			
104	207	311	295.94	-3.68	292.26	1.77	5.00	11.41	21.98	8.60	-9.33	1.86	.19	-2.74	.29ALP	8.28	7.60			
104	208	312	301.08	-3.81	297.27	3.06	4.84	11.61	22.24	7.52	-10.84	1.75	.19	-2.83	.29ALP	8.29	7.61			
104	209	313	307.65	-3.93	303.72	1.62	4.68	11.67	22.51	9.03	-9.75	1.64	.19	-2.91	.29ALP	8.30	7.61			
104	210	314	312.92	-4.04	308.88	2.91	4.53	11.87	22.78	7.94	-11.25	1.52	.19	-3.00	.29ALP	8.32	7.62			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
105	129	234	121.49	-.77	120.72	8.94	19.38	-2.89	-4.05	-10.08	12.22	13.75		.76	.20ALP	7.32	7.16			
105	130	235	118.61	-.04	118.57	10.22	19.15	-2.78	-3.66	-11.26	11.00	13.59		.45	.22ALP	7.34	7.17			
105	131	236	117.27	.12	117.39	9.25	19.47	-2.53	-3.29	-10.01	12.56	12.88	.17	.20	.26ALP	7.35	7.18			
105	132	237	114.69	-.15	114.54	10.93	20.17	-2.42	-2.91	-11.65	10.76	11.79	.18	.04	.28ALP	7.37	7.18			
105	133	238	113.63	-.42	113.21	9.40	20.33	-2.14	-2.51	-9.84	11.88	11.27	.19	-.07	.30ALP	7.38	7.19			
105	134	239	111.33	-.68	110.65	10.63	20.03	-2.03	-2.13	-10.97	10.06	11.17	.19	-.15	.31ALP	7.39	7.19			
105	135	240	110.55	-.92	109.63	9.09	19.72	-1.75	-1.75	-9.16	11.19	11.08	.19	-.21	.32ALP	7.41	7.20			
105	136	241	108.53	-1.15	107.38	10.32	19.42	-1.65	-1.38	-10.29	9.39	11.01	.19	-.25	.33ALP	7.42	7.20			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
105	137	242	108.03	-1.36	106.67	8.79	19.11	-1.38	-1.01	-8.49	10.52	10.94	.19	-.29	.33ALP	7.43	7.21			
105	138	243	106.28	-1.56	104.72	10.02	18.81	-1.28	-.64	-9.62	8.72	10.87	.19	-.32	.33ALP	7.45	7.22			
105	139	244	106.05	-1.75	104.30	8.49	18.51	-1.02	-.27	-7.83	9.85	10.79	.19	-.34	.34ALP	7.46	7.22			
105	140	245	104.57	-1.92	102.65	9.72	18.21	-.91	.09	-8.95	8.07	10.72	.19	-.36	.34ALP	7.47	7.23			
105	141	246	104.59	-2.08	102.51	8.21	17.93	-.64	.46	-7.18	9.19	10.64	.19	-.38	.34ALP	7.49	7.23			
105	142	247	103.38	-2.22	101.16	9.43	17.63	-.55	.81	-8.30	7.43	10.57	.19	-.40	.34ALP	7.50	7.24			
105	143	248	103.66	-2.36	101.30	7.92	17.36	-.28	1.18	-6.54	8.55	10.48	.19	-.41	.35ALP	7.51	7.24			
105	144	249	102.70	-2.47	100.23	9.15	17.07	-.18	1.54	-7.66	6.79	10.41	.19	-.43	.35ALP	7.53	7.25			
105	145	250	103.23	-2.58	100.65	7.65	16.79	.08	1.90	-5.90	7.91	10.32	.19	-.44	.35ALP	7.54	7.26			
105	146	251	102.52	-2.67	99.85	8.87	16.52	.18	2.26	-7.03	6.16	10.24	.19	-.45	.35ALP	7.55	7.26			
105	147	252	103.30	-2.75	100.55	7.37	16.24	.43	2.61	-5.28	7.28	10.15	.19	-.46	.35ALP	7.57	7.27			
105	148	253	102.84	-2.82	100.02	8.60	15.97	.53	2.97	-6.40	5.54	10.07	.19	-.48	.35ALP	7.58	7.27			
105	149	254	103.85	-2.87	100.98	7.11	15.71	.79	3.32	-4.67	6.66	9.97	.19	-.49	.35ALP	7.59	7.28			
105	150	255	103.64	-2.91	100.73	8.32	15.43	.88	3.66	-5.78	4.94	9.90	.19	-.50	.35ALP	7.61	7.28			
105	151	256	104.88	-2.94	101.94	6.86	15.18	1.15	4.02	-4.06	6.05	9.79	.19	-.51	.35ALP	7.62	7.29			
105	152	257	104.90	-2.96	101.94	8.07	14.92	1.24	4.37	-5.18	4.32	9.70	.19	-.53	.35ALP	7.63	7.30			
105	153	258	106.38	-2.97	103.41	6.60	14.67	1.49	4.72	-3.47	5.44	9.60	.19	-.54	.35ALP	7.65	7.30			
105	154	259	106.63	-2.96	103.67	7.82	14.42	1.59	5.06	-4.58	3.72	9.52	.19	-.55	.35ALP	7.66	7.31			
105	155	260	108.34	-2.94	105.40	6.35	14.16	1.84	5.40	-2.87	4.85	9.42	.19	-.57	.35ALP	7.67	7.31			
105	156	261	108.82	-2.91	105.91	7.56	13.91	1.93	5.74	-3.98	3.14	9.33	.19	-.58	.35ALP	7.68	7.32			
105	157	262	110.74	-2.87	107.87	6.10	13.67	2.18	6.09	-2.29	4.25	9.23	.19	-.59	.35ALP	7.70	7.32			
105	158	263	111.44	-2.81	108.63	7.32	13.42	2.28	6.42	-3.40	2.56	9.14	.19	-.60	.34ALP	7.71	7.33			
105	159	264	113.58	-2.75	110.83	5.87	13.19	2.52	6.76	-1.72	3.67	9.03	.19	-.62	.34ALP	7.72	7.34			
105	160	265	114.50	-2.67	111.83	7.08	12.94	2.62	7.09	-2.83	1.99	8.93	.19	-.63	.34ALP	7.73	7.34			
105	161	266	116.85	-2.58	114.27	5.64	12.71	2.86	7.43	-1.15	3.10	8.83	.19	-.64	.34ALP	7.75	7.35			
105	162	267	117.99	-2.48	115.51	6.83	12.47	2.95	7.76	-2.26	1.43	8.74	.19	-.65	.34ALP	7.76	7.35			
105	163	268	120.55	-2.37	118.18	5.40	12.24	3.19	8.09	-.58	2.54	8.63	.19	-.66	.33ALP	7.77	7.36			
105	164	269	121.89	-2.25	119.64	6.61	12.01	3.28	8.42	-1.70	.87	8.53	.19	-.66	.33ALP	7.78	7.36			
105	165	270	124.65	-2.11	122.54	5.18	11.78	3.53	8.75	-.03	1.98	8.43	.19	-.67	.33ALP	7.80	7.37			
105	166	271	126.20	-1.97	124.23	6.38	11.56	3.62	9.07	-1.14	.32	8.32	.19	-.67	.33ALP	7.81	7.38			
105	167	272	129.16	-1.82	127.34	4.96	11.34	3.86	9.41	.51	1.43	8.21	.19	-.67	.32ALP	7.82	7.38			
105	168	273	130.91	-1.65	129.26	6.16	11.11	3.95	9.73	-.60	-.22	8.11	.19	-.66	.32ALP	7.83	7.39			
105	169	274	134.07	-1.48	132.59	4.74	10.90	4.18	10.05	1.05	.88	8.00	.19	-.65	.31ALP	7.85	7.39			
105	170	275	136.02	-1.29	134.73	5.94	10.68	4.27	10.37	-.06	-.75	7.90	.19	-.63	.31ALP	7.86	7.40			
105	171	276	139.37	-1.10	138.27	4.53	10.47	4.50	10.69	1.58	.35	7.78	.19	-.59	.30ALP	7.87	7.41			
105	172	277	141.51	-.89	140.62	5.72	10.25	4.59	11.01	.47	-1.28	7.68	.19	-.55	.29ALP	7.88	7.41			
105	173	278	145.05	-.67	144.38	4.32	10.04	4.82	11.32	2.11	-.17	7.57	.19	-.48	.28ALP	7.89	7.42			
105	174	279	147.38	-.45	146.93	5.51	9.84	4.91	11.64	1.00	-1.81	7.46	.19	-.38	.26ALP	7.91	7.42			
105	175	280	151.10	UNSTABLE AGAINST FISSION																
105	176	281	153.62	UNSTABLE AGAINST FISSION																
105	177	282	157.52	-.35	157.17			5.49	12.61		-.35	6.48		.30	.17ALP	7.94	7.44			
105	178	283	160.22	-.98	159.24	6.00		5.57	12.91	1.21	-1.92	5.48		.56	.18ALP	7.95	7.45			
105	179	284	164.30	-1.64	162.66	4.65	10.65	5.79	13.22	2.79	-.79	5.03		.84	.18ALP	7.97	7.45			
105	180	285	167.18	-2.32	164.86	5.87	10.52	5.88	13.53	1.65	-2.36	4.86		1.12	.18ALP	7.98	7.46			
105	181	286	171.43	-3.02	168.41	4.52	10.39	6.10	13.83	3.21	-1.23	4.68		1.42	.18ALP	7.99	7.46			
105	182	287	174.49	-3.74	170.75	5.73	10.26	6.18	14.12	2.08	-2.79	4.52		1.72	.18ALP	8.00	7.47			
105	183	288	178.91	-4.48	174.43	4.39	10.13	6.40	14.42	3.64	-1.65	4.34		2.04	.18ALP	8.01	7.47			
105	184	289	182.14	-5.25	176.89	5.61	10.00	6.48	14.72	2.51	-4.84	4.17		2.36	.18ALP	8.03	7.48			
105	185	290	186.73	-4.42	182.31	2.65	8.26	6.70	15.03	5.68	-3.70	5.61		1.97	.18ALP	8.04	7.49			
105	186	291	190.13	-3.61	186.52	3.87	6.52	6.78	15.32	4.55	-5.24	7.06		1.59	.18ALP	8.05	7.49			
105	187	292	194.88	-2.84	192.04	2.54	6.42	7.01	15.63	6.08	-4.12	6.85		1.23	.18ALP	8.06	7.50			
105	188	293	198.45	-2.09	196.36	3.75	6.30	7.08	15.92	4.96	-5.65	6.67		.88	.17ALP	8.07	7.50			
105	189	294	203.36	-1.37	201.99	2.44	6.20	7.31	16.22	6.49	-4.52	6.47		.55	.17ALP	8.08	7.51			
105	190	295	207.09	-.68	206.41	3.65	6.09	7.38	16.52	5.36	-6.05	6.28		.24	.16ALP	8.10	7.52			
105	191	296	212.16	-.01	212.15	2.33	5.98	7.60		6.89		6.09		.02	.09ALP	8.11	7.52			
105	192	297	216.05	UNSTABLE AGAINST FISSION																
105	193	298	221.27	UNSTABLE AGAINST FISSION																
105	194	299	225.32	UNSTABLE AGAINST FISSION																
105	195	300	230.70	-1.33	229.37			8.15	17.93		-4.88		.22	-1.33	.23ALP	8.15	7.55			
105	196	301	234.90	-1.58	233.32	4.11		8.22	18.21		-6.42	3.58	.20	-1.53	.25ALP	8.16	7.55			
105	197	302	240.43	-1.82	238.61	2.78	6.90	8.42	18.48	7.22	-5.33	3.46	.20	-1.70	.26ALP	8.18	7.56			
105	198	303	244.78	-2.05	242.73	3.95	6.74	8.50	18.75	6.12	-6.86	3.36	.20	-1.85	.27ALP	8.19	7.56			
105	199	304	250.45	-2.27	248.18	2.63	6.57	8.71	19.03	7.66	-5.77	3.24	.19	-1.98	.27ALP	8.20	7.57			
105	200	305	254.96	-2.49	252.47	3.78	6.40	8.77	19.31	6.57	-7.30	3.14	.19	-2.11	.28ALP	8.21	7.57			
105	201	306	260.77	-2.69	258.08	2.46	6.24	8.98	19.59	8.09	-6.22	3.02	.19	-2.23	.28ALP	8.22	7.58			
105	202	307	265.42	-2.88	262.54	3.62	6.07	9.05	19.86	7.01	-7.74	2.92	.19	-2.34	.28ALP	8.23	7.59			
105	203	308	271.38	-3.06	268.32	2.29	5.91	9.25	20.13	8.53	-6.65	2.81	.19	-2.45	.29ALP	8.24	7.59			
105	204	309	276.17	-3.23	272.94	3.45	5.74	9.33	20.40	7.44	-8.17	2.70	.19	-2.55	.29ALP	8.25	7.60			
105	205	310	282.27	-3.39	278.88	2.13	5.58	9.53	20.67	8.96	-7.08	2.59	.19	-2.65	.29ALP	8.27	7.60			
105	206	311	287.20	-3.54	283.66	3.29	5.42	9.60	20.94	7.88	-8.60	2.47	.19	-2.74	.29ALP	8.28	7.61			
105	207	312	293.43	-3.68	289.75	1.98	5.27	9.80	21.21	9.38	-7.52	2.36	.19	-2.83	.29ALP	8.29	7.62			
105	208	313	298.51	-3.81	294.70	3.13	5.10	9.86	21.47	8.31	-9.02	2.26	.19	-2.92	.29ALP	8.30	7.62			
105	209	314	304.87	-3.93	300.94	1.83	4.95	10.07	21.74	9.80	-7.94	2.13	.19	-3.01	.29ALP	8.31	7.63			
105	210	315	310.08	-4.04	306.04	2.97	4.79	10.13	22.01	8.72	-9.44	2.02	.19	-3.09	.29ALP	8.32	7.63			

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106	123	229	148.12	-1.06	147.06	11.40		-2.98	-7.05	-15.61	14.78	11.88		.69	.19ALP	7.25	7.15			
106	124	230	144.04	-1.78	142.26	12.86	24.28	-2.70	-6.66	-16.79	12.96	11.46		1.03	.19ALP	7.26	7.15			
106	125	231	141.70	-2.52	139.18	11.15	24.02	-2.59	-6.27	-14.97	14.14	11.32		1.37	.20ALP	7.27	7.16			
106	126	232	137.93	-3.29	134.64	12.61	23.77	-2.31	-5.88	-16.15	10.69	11.19		1.73	.20ALP	7.29	7.17			
106	127	233	135.90	-2.45	133.45	9.27	21.87	-2.21	-5.49	-12.70	11.87	12.69		1.37	.20ALP	7.30	7.17			
106	128	234	132.44	-1.65	130.79	10.73	20.00	-1.92	-5.10	-13.88	10.07	14.18		1.03	.20ALP	7.32	7.18			
106	129	235	130.71	-.88	129.83	9.04	19.76	-1.82	-4.71	-12.08	11.26	14.02		.70	.20ALP	7.33	7.18			
106	130	236	127.55	-.15	127.40	10.50	19.54	-1.54	-4.32	-13.25	10.00	13.86		.38	.20ALP	7.35	7.19			
106	131	237	126.11	.08	126.19	9.28	19.78	-1.51	-4.04	-11.93	11.66	13.23	.19	.08	.21ALP	7.36	7.19			
106	132	238	123.25	-.20	123.05	11.22	20.49	-1.23	-3.65		9.84	12.13	.19	-.14	.26ALP	7.37	7.20			
106	133	239	122.09	-.47	121.62	9.50	20.72	-1.12	-3.26		10.97	11.62	.19	-.29	.28ALP	7.39	7.21			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
106	134	240	119.52	-.73	118.79	10.90	20.40	-.85	-2.88	-12.99	9.16	11.54	.19	-.39	.30ALP	7.40	7.21			
106	135	241	118.64	-.97	117.67	9.19	20.09	-.75	-2.51	-11.18	10.29	11.46	.19	-.47	.31ALP	7.41	7.22			
106	136	242	116.35	-1.19	115.16	10.59	19.78	-.48	-2.14	-12.30	8.49	11.40	.19	-.52	.31ALP	7.43	7.22			
106	137	243	115.75	-1.41	114.34	8.89	19.48	-.39	-1.77	-10.50	9.62	11.33	.19	-.57	.32ALP	7.44	7.23			
106	138	244	113.73	-1.61	112.12	10.29	19.18	-.11	-1.39	-11.64	7.82	11.25	.19	-.60	.32ALP	7.46	7.23			
106	139	245	113.39	-1.79	111.60	8.60	18.88	-.01	-1.03	-9.85	8.95	11.18	.19	-.63	.33ALP	7.47	7.24			
106	140	246	111.65	-1.96	109.69	9.99	18.58	.25	-.66	-10.96	7.18	11.11	.19	-.66	.33ALP	7.48	7.24			
106	141	247	111.58	-2.12	109.46	8.30	18.29	.34	-.30	-9.18	8.31	11.04	.19	-.68	.33ALP	7.50	7.25			
106	142	248	110.10	-2.26	107.84	9.69	18.00	.60	.06	-10.30	6.54	10.97	.19	-.69	.34ALP	7.51	7.26			
106	143	249	110.28	-2.39	107.89	8.02	17.71	.70	.42	-8.53	7.67	10.89	.19	-.71	.34ALP	7.52	7.26			
106	144	250	109.06	-2.51	106.55	9.41	17.43	.96	.78	-9.66	5.90	10.81	.19	-.72	.34ALP	7.54	7.27			
106	145	251	109.49	-2.61	106.88	7.75	17.15	1.06	1.14	-7.90	7.03	10.73	.19	-.74	.34ALP	7.55	7.27			
106	146	252	108.53	-2.71	105.82	9.13	16.88	1.31	1.50	-9.02	5.28	10.64	.19	-.75	.34ALP	7.56	7.28			
106	147	253	109.21	-2.78	106.43	7.47	16.59	1.41	1.84	-7.26	6.41	10.57	.19	-.76	.34ALP	7.57	7.28			
106	148	254	108.49	-2.85	105.64	8.85	16.33	1.67	2.20	-8.39	4.66	10.48	.19	-.77	.34ALP	7.59	7.29			
106	149	255	109.41	-2.90	106.51	7.21	16.06	1.76	2.55	-6.64	5.79	10.39	.19	-.78	.34ALP	7.60	7.30			
106	150	256	108.94	-2.94	106.00	8.58	15.79	2.01	2.90	-7.76	4.06	10.31	.19	-.79	.34ALP	7.61	7.30			
106	151	257	110.09	-2.97	107.12	6.95	15.53	2.11	3.25	-6.04	5.18	10.21	.19	-.80	.34ALP	7.63	7.31			
106	152	258	109.86	-2.99	106.87	8.32	15.27	2.36	3.60	-7.15	3.45	10.12	.19	-.81	.34ALP	7.64	7.31			
106	153	259	111.25	-2.99	108.26	6.69	15.00	2.45	3.94	-5.42	4.58	10.04	.19	-.82	.34ALP	7.65	7.32			
106	154	260	111.25	-2.98	108.27	8.06	14.75	2.70	4.28	-6.54	2.87	9.95	.19	-.83	.34ALP	7.67	7.32			
106	155	261	112.86	-2.96	109.90	6.44	14.50	2.79	4.63	-4.83	3.99	9.86	.19	-.84	.34ALP	7.68	7.33			
106	156	262	113.09	-2.93	110.16	7.81	14.25	3.04	4.97	-5.94	2.29	9.76	.19	-.84	.34ALP	7.69	7.34			
106	157	263	114.92	-2.89	112.03	6.20	14.01	3.13	5.32	-4.25	3.40	9.66	.19	-.85	.34ALP	7.70	7.34			
106	158	264	115.38	-2.83	112.55	7.56	13.75	3.37	5.64	-5.35	1.71	9.57	.19	-.86	.34ALP	7.72	7.35			
106	159	265	117.43	-2.77	114.66	5.96	13.52	3.46	5.99	-3.66	2.83	9.47	.19	-.87	.34ALP	7.73	7.35			
106	160	266	118.11	-2.69	115.42	7.31	13.27	3.70	6.32	-4.77	1.15	9.38	.19	-.87	.33ALP	7.74	7.36			
106	161	267	120.37	-2.60	117.77	5.72	13.03	3.79	6.65	-3.08	2.26	9.28	.19	-.88	.33ALP	7.75	7.36			
106	162	268	121.26	-2.50	118.76	7.08	12.80	4.04	6.99	-4.20	.58	9.18	.19	-.88	.33ALP	7.77	7.37			
106	163	269	123.73	-2.39	121.34	5.49	12.57	4.12	7.32	-2.52	1.70	9.07	.19	-.89	.33ALP	7.78	7.38			
106	164	270	124.84	-2.27	122.57	6.84	12.34	4.36	7.65	-3.63	.03	8.98	.19	-.89	.32ALP	7.79	7.38			
106	165	271	127.51	-2.13	125.38	5.27	12.10	4.45	7.97	-1.96	1.15	8.87	.19	-.88	.32ALP	7.80	7.39			
106	166	272	128.82	-1.99	126.83	6.62	11.88	4.69	8.30	-3.07	-.52	8.77	.19	-.88	.32ALP	7.82	7.39			
106	167	273	131.69	-1.84	129.85	5.05	11.67	4.78	8.64	-1.42	.59	8.65	.19	-.86	.31ALP	7.83	7.40			
106	168	274	133.21	-1.67	131.54	6.39	11.44	5.01	8.95	-2.52	-1.05	8.56	.19	-.85	.31ALP	7.84	7.40			
106	169	275	136.28	-1.50	134.78	4.83	11.22	5.10	9.28	-.87	.05	8.45	.19	-.82	.30ALP	7.85	7.41			
106	170	276	138.00	-1.31	136.69	6.17	11.00	5.33	9.59	-1.97	-1.58	8.35	.19	-.79	.30ALP	7.86	7.42			
106	171	277	141.26	-1.11	140.15	4.62	10.78	5.42	9.91	-.33	-.47	8.24	.19	-.75	.29ALP	7.88	7.42			
106	172	278	143.17	-.91	142.26	5.96	10.57	5.65	10.24	-1.44	-2.11	8.13	.19	-.68	.28ALP	7.89	7.43			
106	173	279	146.62	-.69	145.93	4.41	10.36	5.74	10.55	.20	-1.00	8.02	.19	-.60	.26ALP	7.90	7.43			
106	174	280	148.73	-.47	148.26	5.74	10.15	5.96	10.87	-.89		7.92	.20	-.46	.24ALP	7.91	7.44			
106	175	281	152.36	UNSTABLE AGAINST FISSION																
106	176	282	154.66	UNSTABLE AGAINST FISSION																
106	177	283	158.47	-.45	158.02			6.43	11.93	.49	-1.22	6.86		.29	.17ALP	7.95	7.46			
106	178	284	160.95	-1.08	159.87	6.23		6.65	12.23	-.64	-2.79			.55	.18ALP	7.96	7.46			
106	179	285	164.95	-1.73	163.22	4.73	10.95	6.73	12.52	.94	-1.64	5.43		.83	.18ALP	7.97	7.47			
106	180	286	167.61	-2.41	165.20	6.08	10.82	6.95	12.83	-.19	-3.21	5.26		1.11	.18ALP	7.98	7.47			
106	181	287	171.77	-3.11	168.66	4.61	10.70	7.04	13.14	1.37	-2.09	5.07		1.40	.18ALP	8.00	7.48			
106	182	288	174.61	-3.83	170.78	5.96	10.56	7.25	13.44	.24	-3.65	4.91		1.71	.18ALP	8.01	7.49			
106	183	289	178.95	-4.57	174.38	4.48	10.43	7.33	13.74	1.80	-2.51	4.73		2.02	.18ALP	8.02	7.49			
106	184	290	181.96	-5.33	176.63	5.83	10.30	7.55	14.03	.67	-5.68	4.57		2.34	.18ALP	8.03	7.50			
106	185	291	186.47	-4.50	181.97	2.74	8.56	7.63	14.34	3.84	-4.55	6.01		1.96	.18ALP	8.04	7.50			
106	186	292	189.66	-3.70	185.96	4.08	6.82	7.84	14.63	2.72	-6.08	7.45		1.58	.18ALP	8.06	7.51			
106	187	293	194.33	-2.92	191.41	2.62	6.70	7.93	14.93	4.26	-4.95	7.26		1.22	.17ALP	8.07	7.51			
106	188	294	197.68	-2.18	195.50	3.97	6.60	8.15	15.23	3.13	-6.49	7.06		.88	.17ALP	8.08	7.52			
106	189	295	202.51	-1.46	201.05	2.52	6.50	8.23	15.54	4.66	-5.36	6.86		.55	.17ALP	8.09	7.53			
106	190	296	206.03	-.77	205.26	3.86	6.39	8.44	15.83	3.54	-6.89	6.68		.24	.16ALP	8.10	7.53			
106	191	297	211.02	-.10	210.92	2.42	6.28	8.52	16.12	5.07		6.49		.01	.12ALP	8.11	7.54			
106	192	298	214.70	UNSTABLE AGAINST FISSION																
106	193	299	219.85	UNSTABLE AGAINST FISSION																
106	194	300	223.69	UNSTABLE AGAINST FISSION																
106	195	301	228.99	UNSTABLE AGAINST FISSION																
106	196	302	232.99	-1.60	231.39			9.22	17.44		-7.22		.21	-1.59	.24ALP	8.17	7.57			
106	197	303	238.44	-1.83	236.61	2.85		9.29	17.71		-6.12	3.96	.20	-1.77	.25ALP	8.18	7.57			
106	198	304	242.59	-2.06	240.53	4.15	7.00	9.49	17.98	4.30	-7.65	3.85	.20	-1.92	.26ALP	8.19	7.58			
106	199	305	248.18	-2.28	245.90	2.70	6.85	9.57	18.27	5.83	-6.57	3.73	.20	-2.07	.27ALP	8.20	7.58			
106	200	306	252.48	-2.49	249.99	3.99	6.68	9.77	18.54	4.74	-8.09	3.63	.19	-2.20	.27ALP	8.22	7.59			
106	201	307	258.23	-2.69	255.54	2.53	6.51	9.84	18.81	6.28	-7.00	3.52	.19	-2.32	.28ALP	8.23	7.60			
106	202	308	262.67	-2.88	259.79	3.82	6.34	10.04	19.09	5.19	-8.53	3.41	.19	-2.43	.28ALP	8.24	7.60			
106	203	309	268.56	-3.06	265.50	2.36	6.18	10.11	19.36	6.71	-7.44	3.30	.19	-2.54	.28ALP	8.25	7.61			
106	204	310	273.15	-3.23	269.92	3.65	6.01	10.31	19.63	5.63	-8.95	3.19	.19	-2.64	.28ALP	8.26	7.61			
106	205	311	279.18	-3.39	275.79	2.20	5.85	10.38	19.90	7.15	-7.87	3.08	.19	-2.74	.28ALP	8.27	7.62			
106	206	312	283.91	-3.54	280.37	3.49	5.69	10.58	20.17	6.07	-9.38	2.97	.19	-2.84	.29ALP	8.28	7.63			
106	207	313	290.07	-3.68	286.39	2.05	5.54	10.65	20.45	7.57	-8.30	2.85	.19	-2.93	.29ALP	8.29	7.63			
106	208	314	294.95	-3.81	291.14	3.32	5.37	10.84	20.71	6.50	-9.80	2.75	.19	-3.01	.29ALP	8.30	7.64			
106	209	315	301.24	-3.93	297.31	1.90	5.22	10.92	20.98	7.99	-8.73	2.63	.19	-3.10	.29ALP	8.32	7.64			
106	210	316	306.26	-4.04	302.22	3.16	5.06	11.10	21.24	6.92	-10.22	2.53	.19	-3.18	.29ALP	8.33	7.65			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
107	133	240	132.29	-.52	131.77			-2.87	-3.98		12.98	11.95	.20	-.46	.26ALP	7.39	7.22			
107	134	241	129.62	-.77	128.85	11.00		-2.77	-3.62		11.18	11.89	.20	-.60	.28ALP	7.41	7.23			
107	135	242	128.47	-1.01	127.46	9.46	20.46	-2.50	-3.25	-10.27	12.30	11.83	.20	-.69	.29ALP	7.42	7.23			
107	136	243	126.08	-1.23	124.85	10.68	20.15	-2.40	-2.89	-11.39	10.51	11.77	.20	-.77	.30ALP	7.44	7.24			
107	137	244	125.20	-1.44	123.76	9.16	19.84	-2.13	-2.51	-9.60	11.63	11.70	.20	-.82	.31ALP	7.45	7.25			
107	138	245	123.08	-1.64	121.44	10.39	19.55	-2.02	-2.14	-10.73	9.84	11.63	.20	-.87	.31ALP	7.46	7.25			
107	139	246	122.48	-1.82	120.66	8.86	19.24	-1.77	-1.78	-8.94	10.97	11.57	.19	-.90	.32ALP	7.48	7.26			
107	140	247	120.63	-1.99	118.64	10.09	18.95	-1.66	-1.41	-10.07	9.18	11.49	.19	-.93	.32ALP	7.49	7.26			

			DROPLET	CALC	CALC	BINDING ENERGY				DECAY ENERGY			GD STA	SADDLE		SHARP RADIUS		EXPERIMENTAL		
Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
107	141	248	120.29	-2.15	118.14	8.57	18.66	-1.40	-1.05	-8.30	10.30	11.42	.19	-.96	.33ALP	7.50	7.27			
107	142	249	118.71	-2.29	116.42	9.79	18.37	-1.29	-.69	-9.42	8.53	11.35	.19	-.98	.33ALP	7.52	7.27			
107	143	250	118.63	-2.42	116.21	8.28	18.08	-1.04	-.33	-7.65	9.66	11.27	.19	-.99	.33ALP	7.53	7.28			
107	144	251	117.31	-2.53	114.78	9.50	17.79	-.93	.02	-8.77	7.90	11.20	.19	-1.01	.33ALP	7.54	7.28			
107	145	252	117.48	-2.64	114.84	8.01	17.51	-.68	.39	-7.02	9.01	11.11	.19	-1.02	.33ALP	7.56	7.29			
107	146	253	116.42	-2.73	113.69	9.22	17.23	-.58	.74	-8.14	7.27	11.04	.19	-1.03	.33ALP	7.57	7.30			
107	147	254	116.83	-2.80	114.03	7.74	16.96	-.31	1.09	-6.39	8.38	10.96	.19	-1.04	.34ALP	7.58	7.30			
107	148	255	116.02	-2.87	113.15	8.95	16.69	-.22	1.45	-7.51	6.64	10.87	.19	-1.05	.34ALP	7.59	7.31			
107	149	256	116.68	-2.92	113.76	7.47	16.41	.04	1.80	-5.78	7.76	10.79	.19	-1.06	.34ALP	7.61	7.31			
107	150	257	116.12	-2.96	113.16	8.67	16.14	.13	2.14	-6.88	6.04	10.72	.19	-1.07	.34ALP	7.62	7.32			
107	151	258	117.01	-2.99	114.02	7.20	15.88	.39	2.50	-5.17	7.14	10.62	.19	-1.07	.34ALP	7.63	7.32			
107	152	259	116.69	-3.00	113.69	8.41	15.61	.48	2.83	-6.27	5.44	10.54	.19	-1.08	.34ALP	7.65	7.33			
107	153	260	117.81	-3.01	114.80	6.95	15.37	.74	3.19	-4.57	6.53	10.44	.19	-1.09	.34ALP	7.66	7.34			
107	154	261	117.72	-3.00	114.72	8.16	15.11	.83	3.53	-5.68	4.83	10.35	.19	-1.09	.34ALP	7.67	7.34			
107	155	262	119.08	-2.98	116.10	6.69	14.85	1.08	3.88	-3.98	5.94	10.26	.19	-1.10	.33ALP	7.68	7.35			
107	156	263	119.22	-2.94	116.28	7.90	14.59	1.17	4.21	-5.08	4.25	10.18	.19	-1.10	.33ALP	7.70	7.35			
107	157	264	120.80	-2.90	117.90	6.45	14.35	1.42	4.55	-3.39	5.35	10.08	.19	-1.11	.33ALP	7.71	7.36			
107	158	265	121.17	-2.84	118.33	7.65	14.09	1.51	4.88	-4.49	3.67	10.00	.19	-1.11	.33ALP	7.72	7.36			
107	159	266	122.97	-2.78	120.19	6.20	13.85	1.76	5.22	-2.81	4.77	9.89	.19	-1.11	.33ALP	7.74	7.37			
107	160	267	123.55	-2.70	120.85	7.41	13.62	1.86	5.56	-3.92	3.08	9.79	.19	-1.11	.33ALP	7.75	7.38			
107	161	268	125.57	-2.61	122.96	5.97	13.37	2.09	5.89	-2.24	4.20	9.70	.19	-1.11	.32ALP	7.76	7.38			
107	162	269	126.37	-2.51	123.86	7.17	13.14	2.19	6.23	-3.35	2.52	9.60	.19	-1.11	.32ALP	7.77	7.39			
107	163	270	128.60	-2.40	126.20	5.73	12.90	2.43	6.56	-1.68	3.63	9.50	.19	-1.10	.32ALP	7.79	7.39			
107	164	271	129.61	-2.28	127.33	6.94	12.68	2.52	6.89	-2.79	1.96	9.40	.19	-1.10	.32ALP	7.80	7.40			
107	165	272	132.04	-2.14	129.90	5.51	12.44	2.77	7.22	-1.13	3.07	9.30	.19	-1.09	.31ALP	7.81	7.40			
107	166	273	133.27	-2.00	131.27	6.70	12.21	2.85	7.54	-2.23	1.41	9.20	.19	-1.07	.31ALP	7.82	7.41			
107	167	274	135.90	-1.84	134.06	5.29	11.99	3.09	7.86	-.57	2.52	9.10	.19	-1.05	.31ALP	7.83	7.42			
107	168	275	137.33	-1.68	135.65	6.48	11.76	3.18	8.19	-1.68	.86	8.99	.19	-1.02	.30ALP	7.85	7.42			
107	169	276	140.16	-1.50	138.66	5.07	11.54	3.42	8.51	-.03	1.97	8.89	.19	-.99	.30ALP	7.86	7.43			
107	170	277	141.79	-1.32	140.47	6.26	11.33	3.51	8.84	-1.14	.32	8.78	.19	-.94	.29ALP	7.87	7.43			
107	171	278	144.82	-1.12	143.70	4.85	11.10	3.74	9.15	.50	1.43	8.68	.19	-.88	.28ALP	7.88	7.44			
107	172	279	146.65	-.92	145.73	6.04	10.89	3.82	9.47	-.60	-.20	8.58	.20	-.80	.27ALP	7.90	7.44			
107	173	280	149.86	-.71	149.15	4.65	10.69	4.07	9.80	1.02	.89	8.45	.20	-.68	.25ALP	7.91	7.45			
107	174	281	151.88	UNSTABLE AGAINST FISSION																
107	175	282	155.29	UNSTABLE AGAINST FISSION																
107	176	283	157.50	.04	157.54						-.49	8.18		.08	.12ALP	7.94	7.47			
107	177	284	161.08	-.57	160.51	5.10		4.81	11.24	1.35	.64			.30	.17ALP	7.96	7.47			
107	178	285	163.48	-1.20	162.28	6.31	11.40	4.89	11.54	.23	-.93			.55	.17ALP	7.97	7.48			
107	179	286	167.24	-1.85	165.39	4.96	11.27	5.12	11.85	1.79	.19	5.80		.83	.17ALP	7.98	7.48			
107	180	287	169.82	-2.53	167.29	6.17	11.13	5.20	12.15	.66	-1.38	5.63		1.11	.18ALP	7.99	7.49			
107	181	288	173.77	-3.23	170.54	4.82	10.99	5.41	12.45	2.23	-.25	5.46		1.40	.18ALP	8.00	7.50			
107	182	289	176.52	-3.94	172.58	6.04	10.86	5.50	12.75	1.10	-1.80	5.29		1.71	.18ALP	8.01	7.50			
107	183	290	180.64	-4.68	175.96	4.69	10.72	5.72	13.05	2.66	-.67	5.12		2.02	.18ALP	8.03	7.51			
107	184	291	183.57	-5.44	178.13	5.90	10.59	5.80	13.34	1.53	-3.84	4.96		2.34	.18ALP	8.04	7.51			
107	185	292	187.86	-4.61	183.25	2.95	8.85	6.01	13.64	4.70	-2.71	6.40		1.96	.18ALP	8.05	7.52			
107	186	293	190.96	-3.81	187.15	4.17	7.12	6.10	13.94	3.57	-4.25	7.83		1.59	.18ALP	8.06	7.52			
107	187	294	195.41	-3.04	192.37	2.85	7.01	6.32	14.25	5.10	-3.13	7.63		1.23	.17ALP	8.07	7.53			
107	188	295	198.69	-2.30	196.39	4.05	6.90	6.40	14.55	3.97	-4.66	7.45		.88	.17ALP	8.08	7.54			
107	189	296	203.30	-1.58	201.72	2.74	6.79	6.62	14.85	5.50	-3.54	7.25		.56	.17ALP	8.10	7.54			
107	190	297	206.74	-.89	205.85	3.94	6.68	6.70	15.14	4.38	-5.07	7.07		.25	.16ALP	8.11	7.55			
107	191	298	211.52	-.23	211.29	2.63	6.58	6.92	15.44	5.90		6.87		.01	.13ALP	8.12	7.55			
107	192	299	215.12	UNSTABLE AGAINST FISSION																
107	193	300	220.05	UNSTABLE AGAINST FISSION																
107	194	301	223.82	UNSTABLE AGAINST FISSION																
107	195	302	228.91	UNSTABLE AGAINST FISSION																
107	196	303	232.82	UNSTABLE AGAINST FISSION																
107	197	304	238.07	-1.84	236.23			7.66	16.96		-4.29	4.44	.21	-1.82	.24ALP	8.19	7.59			
107	198	305	242.14	-2.06	240.08	4.22		7.74	17.23		-5.82	4.33	.20	-1.99	.25ALP	8.20	7.59			
107	199	306	247.53	-2.28	245.25	2.90	7.12	7.94	17.51	6.63	-4.74	4.22	.20	-2.14	.26ALP	8.21	7.60			
107	200	307	251.75	-2.49	249.26	4.06	6.96	8.02	17.79	5.53	-6.27	4.11	.20	-2.28	.27ALP	8.22	7.61			
107	201	308	257.29	-2.69	254.60	2.73	6.79	8.22	18.06	7.06	-5.19	4.00	.20	-2.40	.27ALP	8.23	7.61			
107	202	309	261.66	-2.88	258.78	3.89	6.63	8.30	18.34	5.97	-6.72	3.89	.19	-2.52	.27ALP	8.24	7.62			
107	203	310	267.34	-3.06	264.28	2.57	6.47	8.50	18.61	7.49	-5.64	3.77	.19	-2.63	.28ALP	8.26	7.62			
107	204	311	271.86	-3.22	268.64	3.72	6.29	8.57	18.88	6.42	-7.14	3.68	.19	-2.73	.28ALP	8.27	7.63			
107	205	312	277.69	-3.38	274.31	2.40	6.12	8.76	19.14	7.93	-6.06	3.57	.19	-2.83	.28ALP	8.28	7.64			
107	206	313	282.35	-3.53	278.82	3.56	5.96	8.84	19.41	6.85	-7.57	3.46	.19	-2.92	.28ALP	8.29	7.64			
107	207	314	288.31	-3.67	284.64	2.25	5.81	9.04	19.69	8.35	-6.50	3.34	.19	-3.02	.28ALP	8.30	7.65			
107	208	315	293.11	-3.80	289.31	3.40	5.65	9.11	19.96	7.27	-8.01	3.23	.19	-3.10	.28ALP	8.31	7.65			
107	209	316	299.21	-3.91	295.30	2.09	5.48	9.31	20.22	8.78	-6.92	3.13	.19	-3.19	.28ALP	8.32	7.66			
107	210	317	304.15	-4.02	300.13	3.24	5.33	9.38	20.49	7.70	-8.42	3.01	.19	-3.27	.28ALP	8.33	7.66			

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108	126	234	159.99	-3.59	156.40	12.99	24.53	-2.96	-7.18	-17.15	11.73	11.71		1.64	.19ALP	7.30	7.20			
108	127	235	157.57	-2.76	154.81	9.66	22.65	-2.85	-6.78	-13.73	12.90	13.21		1.29	.19ALP	7.32	7.21			
108	128	236	153.73	-1.96	151.77	11.11	20.77	-2.58	-6.40	-14.90	11.12	14.70		.95	.19ALP	7.33	7.21			
108	129	237	151.61	-1.20	150.41	9.43	20.54	-2.47	-6.01	-13.11	12.29	14.54		.63	.18ALP	7.35	7.22			
108	130	238	148.08	-.47	147.61	10.87	20.31	-2.20	-5.63	-14.27		14.39		.33	.17ALP	7.36	7.22			
108	131	239	146.25	UNSTABLE AGAINST FISSION																
108	132	240	143.01	UNSTABLE AGAINST FISSION																
108	133	241	141.47	UNSTABLE AGAINST FISSION																
108	134	242	138.53	-.81	137.72			-1.58	-4.35		10.26	12.25	.21	-.76	.26ALP	7.42	7.25			
108	135	243	137.27	-1.04	136.23	9.57		-1.48	-3.98		11.39	12.19	.20	-.89	.28ALP	7.43	7.25			
108	136	244	134.62	-1.26	133.36	10.95	20.51	-1.23	-3.62	-13.38	9.60	12.14	.20	-.98	.29ALP	7.44	7.26			
108	137	245	133.64	-1.47	132.17	9.26	20.21	-1.13	-3.25	-11.60	10.72	12.07	.20	-1.06	.30ALP	7.46	7.26			
108	138	246	131.26	-1.66	129.60	10.64	19.90	-.86	-2.89	-12.72	8.95	12.02	.20	-1.11	.30ALP	7.47	7.27			
108	139	247	130.55	-1.84	128.71	8.96	19.60	-.76	-2.53	-10.94	10.07	11.95	.20	-1.16	.31ALP	7.48	7.27			
108	140	248	128.45	-2.01	126.44	10.34	19.30	-.51	-2.17	-12.05	8.30	11.89	.20	-1.19	.31ALP	7.50	7.28			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
108	141	249	128.00	-2.16	125.84	8.67	19.01	-.40	-1.80	-10.28	9.42	11.81	.20	-1.22	.32ALP	7.51	7.29			
108	142	250	126.17	-2.31	123.86	10.04	18.72	-.15	-1.44	-11.40	7.65	11.74	.20	-1.24	.32ALP	7.52	7.29			
108	143	251	125.98	-2.43	123.55	8.38	18.43	-.05	-1.08	-9.63	8.77	11.67	.20	-1.26	.32ALP	7.54	7.30			
108	144	252	124.41	-2.55	121.86	9.76	18.14	.20	-.73	-10.75	7.02	11.60	.19	-1.28	.32ALP	7.55	7.30			
108	145	253	124.47	-2.65	121.82	8.11	17.87	.31	-.36	-9.00	8.13	11.51	.19	-1.29	.32ALP	7.56	7.31			
108	146	254	123.16	-2.74	120.42	9.47	17.58	.56	-.01	-10.11	6.39	11.44	.19	-1.30	.33ALP	7.58	7.31			
108	147	255	123.48	-2.81	120.67	7.83	17.30	.65	.33	-8.36	7.52	11.37	.19	-1.31	.33ALP	7.59	7.32			
108	148	256	122.41	-2.88	119.53	9.20	17.03	.91	.69	-9.48	5.77	11.28	.19	-1.32	.33ALP	7.60	7.32			
108	149	257	122.97	-2.93	120.04	7.57	16.77	1.01	1.05	-7.75	6.88	11.19	.19	-1.33	.33ALP	7.61	7.33			
108	150	258	122.16	-2.97	119.19	8.92	16.49	1.25	1.39	-8.85	5.17	11.12	.19	-1.33	.33ALP	7.63	7.34			
108	151	259	122.96	-2.99	119.97	7.30	16.22	1.35	1.73	-7.12	6.29	11.04	.19	-1.34	.33ALP	7.64	7.34			
108	152	260	122.38	-3.01	119.37	8.66	15.96	1.60	2.08	-8.24	4.56	10.95	.19	-1.34	.33ALP	7.65	7.35			
108	153	261	123.41	-3.01	120.40	7.05	15.71	1.70	2.43	-6.53	5.67	10.85	.19	-1.35	.33ALP	7.67	7.35			
108	154	262	123.08	-3.00	120.08	8.40	15.44	1.94	2.77	-7.62	3.98	10.78	.19	-1.35	.33ALP	7.68	7.36			
108	155	263	124.34	-2.98	121.36	6.79	15.19	2.03	3.11	-5.92	5.08	10.68	.19	-1.35	.33ALP	7.69	7.36			
108	156	264	124.23	-2.95	121.28	8.15	14.94	2.28	3.46	-7.04	3.38	10.59	.19	-1.35	.33ALP	7.70	7.37			
108	157	265	125.72	-2.90	122.82	6.54	14.68	2.37	3.79	-5.33	4.50	10.50	.19	-1.35	.32ALP	7.72	7.37			
108	158	266	125.84	-2.85	122.99	7.90	14.44	2.62	4.14	-6.45	2.80	10.40	.19	-1.35	.32ALP	7.73	7.38			
108	159	267	127.55	-2.78	124.77	6.30	14.19	2.71	4.47	-4.75	3.92	10.31	.19	-1.34	.32ALP	7.74	7.39			
108	160	268	127.90	-2.70	125.20	7.64	13.94	2.94	4.80	-5.85	2.24	10.23	.19	-1.34	.32ALP	7.75	7.39			
108	161	269	129.82	-2.61	127.21	6.06	13.71	3.04	5.13	-4.17	3.35	10.12	.19	-1.33	.32ALP	7.77	7.40			
108	162	270	130.39	-2.51	127.88	7.40	13.46	3.27	5.46	-5.27	1.68	10.04	.19	-1.32	.32ALP	7.78	7.40			
108	163	271	132.52	-2.40	130.12	5.83	13.23	3.36	5.80	-3.61	2.78	9.93	.19	-1.31	.31ALP	7.79	7.41			
108	164	272	133.30	-2.27	131.03	7.17	12.99	3.60	6.12	-4.70	1.13	9.84	.19	-1.30	.31ALP	7.80	7.41			
108	165	273	135.64	-2.14	133.50	5.60	12.77	3.69	6.45	-3.04	2.23	9.73	.19	-1.28	.31ALP	7.82	7.42			
108	166	274	136.63	-2.00	134.63	6.94	12.54	3.93	6.78	-4.15	.57	9.64	.19	-1.26	.30ALP	7.83	7.43			
108	167	275	139.17	-1.84	137.33	5.38	12.31	4.02	7.11	-2.49	1.68	9.53	.19	-1.23	.30ALP	7.84	7.43			
108	168	276	140.37	-1.68	138.69	6.71	12.09	4.25	7.43	-3.59	.03	9.43	.19	-1.19	.29ALP	7.85	7.44			
108	169	277	143.11	-1.50	141.61	5.16	11.87	4.34	7.75	-1.94	1.13	9.33	.19	-1.14	.29ALP	7.87	7.44			
108	170	278	144.51	-1.32	143.19	6.49	11.65	4.57	8.08	-3.04	-.51	9.22	.19	-1.08	.28ALP	7.88	7.45			
108	171	279	147.45	-1.13	146.32	4.94	11.43	4.66	8.40	-1.41	.59	9.11	.20	-1.00	.27ALP	7.89	7.45			
108	172	280	149.05	-.93	148.12	6.27	11.22	4.89	8.72	-2.50	-1.03	9.01	.20	-.89	.25ALP	7.90	7.46			
108	173	281	152.18	UNSTABLE AGAINST FISSION																
108	174	282	153.97	UNSTABLE AGAINST FISSION																
108	175	283	157.29	UNSTABLE AGAINST FISSION																
108	176	284	159.28	-.12	159.16			5.66			-1.35	8.48		.09	.14ALP	7.95	7.48			
108	177	285	162.78	-.73	162.05	5.18		5.75	10.56	-.49	-.23			.31	.16ALP	7.96	7.49			
108	178	286	164.95	-1.35	163.60	6.53	11.70	5.97	10.85	-1.61	-1.79			.57	.17ALP	7.97	7.49			
108	179	287	168.63	-2.01	166.62	5.04	11.58	6.06	11.17	-.05	-.67	6.17		.84	.17ALP	7.99	7.50			
108	180	288	170.99	-2.68	168.31	6.39	11.43	6.27	11.47	-1.17	-2.23	6.01		1.12	.17ALP	8.00	7.51			
108	181	289	174.85	-3.37	171.48	4.91	11.29	6.35	11.77	.40	-1.10	5.84		1.41	.18ALP	8.01	7.51			
108	182	290	177.39	-4.09	173.30	6.25	11.16	6.57	12.06	-.73	-2.66	5.68		1.72	.18ALP	8.02	7.52			
108	183	291	181.42	-4.83	176.59	4.78	11.03	6.65	12.37	.82	-1.54	5.50		2.03	.18ALP	8.03	7.52			
108	184	292	184.14	-5.58	178.56	6.11	10.88	6.86	12.65	-.28	-4.68	5.35		2.35	.18ALP	8.04	7.53			
108	185	293	188.34	-4.76	183.58	3.04	9.16	6.95	12.97	2.86	-3.57	6.77		1.97	.18ALP	8.06	7.53			
108	186	294	191.23	-3.96	187.27	4.38	7.43	7.16	13.27	1.74	-5.10	8.21		1.60	.17ALP	8.07	7.54			
108	187	295	195.60	-3.19	192.41	2.93	7.32	7.25	13.57	3.27	-3.98	8.01		1.24	.17ALP	8.08	7.55			
108	188	296	198.66	-2.44	196.22	4.27	7.19	7.46	13.86	2.16	-5.50	7.84		.90	.17ALP	8.09	7.55			
108	189	297	203.20	-1.73	201.47	2.82	7.09	7.54	14.16	3.69	-4.38	7.64		.58	.17ALP	8.10	7.56			
108	190	298	206.43	-1.04	205.39	4.15	6.97	7.75	14.45	2.57	-5.90	7.46		.28	.16ALP	8.11	7.56			
108	191	299	211.12	-.38	210.74	2.72	6.87	7.84	14.76	4.09		7.26		.02	.14ALP	8.13	7.57			
108	192	300	214.52	UNSTABLE AGAINST FISSION																
108	193	301	219.37	UNSTABLE AGAINST FISSION																
108	194	302	222.93	UNSTABLE AGAINST FISSION																
108	195	303	227.94	UNSTABLE AGAINST FISSION																
108	196	304	231.65	UNSTABLE AGAINST FISSION																
108	197	305	236.82	UNSTABLE AGAINST FISSION																
108	198	306	240.68	-2.06	238.62			8.75	16.48		-6.63	4.81	.21	-2.04	.24ALP	8.20	7.61			
108	199	307	246.00	-2.27	243.73	2.97		8.81	16.75		-5.53	4.70	.20	-2.20	.25ALP	8.22	7.62			
108	200	308	250.02	-2.48	247.54	4.26	7.23	9.01	17.03	3.73	-7.06	4.59	.20	-2.34	.26ALP	8.23	7.62			
108	201	309	255.48	-2.67	252.81	2.81	7.06	9.09	17.30	5.25	-5.98	4.48	.20	-2.47	.26ALP	8.24	7.63			
108	202	310	259.66	-2.86	256.80	4.08	6.89	9.28	17.57	4.17	-7.49	4.38	.20	-2.60	.27ALP	8.25	7.63			
108	203	311	265.26	-3.04	262.22	2.64	6.73	9.36	17.85	5.68	-6.42	4.26	.19	-2.71	.27ALP	8.26	7.64			
108	204	312	269.58	-3.21	266.37	3.92	6.57	9.55	18.13	4.60	-7.93	4.16	.19	-2.81	.27ALP	8.27	7.64			
108	205	313	275.33	-3.36	271.97	2.48	6.40	9.62	18.39	6.12	-6.85	4.05	.19	-2.91	.27ALP	8.28	7.65			
108	206	314	279.80	-3.51	276.29	3.75	6.23	9.82	18.66	5.05	-8.35	3.95	.19	-3.01	.28ALP	8.29	7.66			
108	207	315	285.69	-3.65	282.04	2.31	6.07	9.89	18.93	6.56	-7.28	3.83	.19	-3.10	.28ALP	8.31	7.66			
108	208	316	290.29	-3.77	286.52	3.59	5.91	10.09	19.20	5.48	-8.78	3.73	.19	-3.19	.28ALP	8.32	7.67			
108	209	317	296.32	-3.89	292.43	2.16	5.75	10.16	19.46	6.98	-7.70	3.61	.19	-3.27	.28ALP	8.33	7.67			
108	210	318	301.07	-4.00	297.07	3.43	5.59	10.35	19.73	5.91	-9.19	3.51	.19	-3.35	.28ALP	8.34	7.68			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
109	137	246	143.80	-1.49	142.31	9.53	20.58	-2.86	-3.98	-10.69	12.71	12.42	.20	-1.26	.29ALP	7.46	7.28			
109	138	247	141.32	-1.68	139.64	10.75	20.27	-2.76	-3.62	-11.81	10.93	12.37	.20	-1.33	.29ALP	7.48	7.29			
109	139	248	140.35	-1.86	138.49	9.22	19.97	-2.50	-3.26	-10.04	12.05	12.31	.20	-1.38	.30ALP	7.49	7.29			
109	140	249	138.14	-2.02	136.12	10.44	19.67	-2.39	-2.90	-11.15	10.28	12.25	.20	-1.43	.30ALP	7.50	7.30			
109	141	250	137.43	-2.17	135.26	8.93	19.37	-2.13	-2.54	-9.39	11.40	12.18	.20	-1.46	.31ALP	7.52	7.30			
109	142	251	135.49	-2.31	133.18	10.15	19.08	-2.03	-2.18	-10.51	9.63	12.11	.20	-1.49	.31ALP	7.53	7.31			
109	143	252	135.05	-2.44	132.61	8.64	18.79	-1.78	-1.82	-8.75	10.75	12.04	.20	-1.52	.31ALP	7.54	7.31			
109	144	253	133.37	-2.55	130.82	9.86	18.51	-1.67	-1.46	-9.86	8.99	11.97	.20	-1.53	.32ALP	7.56	7.32			
109	145	254	133.18	-2.65	130.53	8.37	18.22	-1.41	-1.11	-8.11	10.11	11.90	.20	-1.55	.32ALP	7.57	7.32			
109	146	255	131.77	-2.74	129.03	9.57	17.94	-1.32	-.76	-9.22	8.37	11.83	.20	-1.56	.32ALP	7.58	7.33			
109	147	256	131.82	-2.81	129.01	8.09	17.66	-1.06	-.40	-7.49	9.47	11.74	.20	-1.57	.32ALP	7.60	7.34			
109	148	257	130.66	-2.88	127.78	9.30	17.39	-.96	-.05	-8.60	7.74	11.66	.19	-1.58	.32ALP	7.61	7.34			
109	149	258	130.97	-2.93	128.04	7.82	17.11	-.71	.30	-6.87	8.85	11.59	.19	-1.59	.32ALP	7.62	7.35			
109	150	259	130.05	-2.96	127.09	9.03	16.84	-.61	.64	-7.98	7.13	11.51	.19	-1.59	.32ALP	7.63	7.35			
109	151	260	130.60	-2.99	127.61	7.55	16.57	-.36	.99	-6.26	8.24	11.42	.19	-1.59	.32ALP	7.65	7.36			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SHARP DEF	I	RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
109	152	261	129.93	-3.00	126.93	8.75	16.30	-.26	1.33	-7.36	6.53	11.35	.19	-1.59	.32	ALP	7.66	7.36			
109	153	262	130.71	-3.00	127.71	7.29	16.04	-.01	1.68	-5.65	7.63	11.26	.19	-1.59	.32	ALP	7.67	7.37			
109	154	263	130.28	-2.99	127.29	8.49	15.78	.08	2.01	-6.76	5.93	11.18	.19	-1.59	.32	ALP	7.69	7.37			
109	155	264	131.29	-2.97	128.32	7.04	15.53	.33	2.36	-5.06	7.03	11.09	.19	-1.59	.32	ALP	7.70	7.38			
109	156	265	131.09	-2.94	128.15	8.24	15.28	.43	2.70	-6.17	5.33	11.00	.19	-1.59	.32	ALP	7.71	7.39			
109	157	266	132.33	-2.89	129.44	6.79	15.02	.67	3.04	-4.47	6.44	10.91	.19	-1.58	.32	ALP	7.72	7.39			
109	158	267	132.36	-2.84	129.52	7.98	14.77	.76	3.38	-5.58	4.75	10.82	.19	-1.58	.32	ALP	7.74	7.40			
109	159	268	133.82	-2.77	131.05	6.54	14.53	1.01	3.72	-3.90	5.85	10.72	.19	-1.57	.32	ALP	7.75	7.40			
109	160	269	134.07	-2.69	131.38	7.74	14.28	1.11	4.05	-5.00	4.17	10.63	.19	-1.56	.31	ALP	7.76	7.41			
109	161	270	135.75	-2.60	133.15	6.30	14.04	1.35	4.39	-3.33	5.27	10.54	.19	-1.54	.31	ALP	7.77	7.41			
109	162	271	136.22	-2.50	133.72	7.50	13.81	1.44	4.72	-4.43	3.60	10.44	.19	-1.53	.31	ALP	7.79	7.42			
109	163	272	138.12	-2.39	135.73	6.06	13.56	1.68	5.05	-2.76	4.70	10.35	.19	-1.51	.31	ALP	7.80	7.43			
109	164	273	138.81	-2.26	136.55	7.26	13.32	1.77	5.37	-3.85	3.05	10.26	.19	-1.49	.30	ALP	7.81	7.43			
109	165	274	140.91	-2.13	138.78	5.83	13.09	2.01	5.70	-2.20	4.15	10.16	.19	-1.46	.30	ALP	7.82	7.44			
109	166	275	141.81	-1.99	139.82	7.02	12.87	2.10	6.03	-3.30	2.49	10.06	.19	-1.43	.29	ALP	7.84	7.44			
109	167	276	144.11	-1.83	142.28	5.62	12.64	2.34	6.36	-1.65	3.59	9.95	.19	-1.39	.29	ALP	7.85	7.45			
109	168	277	145.22	-1.67	143.55	6.80	12.41	2.43	6.68	-2.75	1.94	9.85	.19	-1.33	.28	ALP	7.86	7.45			
109	169	278	147.73	-1.49	146.24	5.39	12.18	2.67	7.00	-1.10	3.04	9.76	.20	-1.27	.28	ALP	7.87	7.46			
109	170	279	149.04	-1.31	147.73	6.58	11.97	2.76	7.32	-2.20	1.40	9.65	.20	-1.19	.27	ALP	7.88	7.47			
109	171	280	151.75	-1.12	150.63	5.17	11.75	2.99	7.64	-.56	2.50	9.55	.20	-1.09	.25	ALP	7.90	7.47			
109	172	281	153.26	UNSTABLE AGAINST FISSION																	
109	173	282	156.15	UNSTABLE AGAINST FISSION																	
109	174	283	157.86	UNSTABLE AGAINST FISSION																	
109	175	284	160.95	UNSTABLE AGAINST FISSION																	
109	176	285	162.85	-.31	162.54			3.90	9.57	-1.21	.49			.11	.15	ALP	7.96	7.50			
109	177	286	166.12	-.91	165.21	5.41		4.13	9.88	.37	1.61			.34	.16	ALP	7.97	7.51			
109	178	287	168.21	-1.54	166.67	6.61	12.02	4.21	10.18	-.76	.04	6.71		.59	.17	ALP	7.98	7.51			
109	179	288	171.67	-2.19	169.48	5.26	11.88	4.43	10.49	.81	1.17	6.54		.86	.17	ALP	7.99	7.52			
109	180	289	173.94	-2.86	171.08	6.47	11.74	4.52	10.79	-.32	-.40	6.38		1.14	.17	ALP	8.00	7.52			
109	181	290	177.58	-3.55	174.03	5.12	11.60	4.74	11.09	1.25	.73	6.21		1.44	.18	ALP	8.02	7.53			
109	182	291	180.03	-4.26	175.77	6.33	11.46	4.82	11.39	.13	-.83	6.05		1.74	.18	ALP	8.03	7.53			
109	183	292	183.84	-5.00	178.84	5.00	11.33	5.04	11.69	1.67	.29	5.87		2.05	.18	ALP	8.04	7.54			
109	184	293	186.48	-5.75	180.73	6.19	11.18	5.12	11.97	.57	-2.85	5.73		2.37	.18	ALP	8.05	7.55			
109	185	294	190.46	-4.93	185.53	3.26	9.46	5.34	12.29	3.71	-1.74	7.15		1.99	.18	ALP	8.06	7.55			
109	186	295	193.27	-4.13	189.14	4.46	7.72	5.42	12.58	2.59	-3.28	8.59		1.62	.17	ALP	8.07	7.56			
109	187	296	197.42	-3.36	194.06	3.15	7.61	5.65	12.89	4.12	-2.16	8.39		1.27	.17	ALP	8.09	7.56			
109	188	297	200.40	-2.62	197.78	4.35	7.50	5.73	13.19	3.00	-3.69	8.21		.93	.17	ALP	8.10	7.57			
109	189	298	204.72	-1.90	202.82	3.04	7.38	5.94	13.48	4.53	-2.57	8.02		.61	.16	ALP	8.11	7.57			
109	190	299	207.87	-1.22	206.65	4.23	7.27	6.02	13.78	3.41	-4.10	7.84		.31	.16	ALP	8.12	7.58			
109	191	300	212.35	-.56	211.79	2.93	7.17	6.24	14.08	4.93		7.64		.05	.14	ALP	8.13	7.59			
109	192	301	215.66	UNSTABLE AGAINST FISSION																	
109	193	302	220.31	UNSTABLE AGAINST FISSION																	
109	194	303	223.78	UNSTABLE AGAINST FISSION																	
109	195	304	228.59	UNSTABLE AGAINST FISSION																	
109	196	305	232.22	UNSTABLE AGAINST FISSION																	
109	197	306	237.18	UNSTABLE AGAINST FISSION																	
109	198	307	240.97	UNSTABLE AGAINST FISSION																	
109	199	308	246.08	-2.26	243.82			7.20	16.01		-3.72	5.17	.21	-2.25	.24	ALP	8.22	7.63			
109	200	309	250.02	-2.46	247.56	4.33		7.27	16.28		-5.25	5.06	.20	-2.40	.25	ALP	8.23	7.64			
109	201	310	255.28	-2.65	252.63	3.01	7.33	7.47	16.55	6.05	-4.16	4.96	.20	-2.54	.26	ALP	8.24	7.64			
109	202	311	259.38	-2.84	256.54	4.16	7.16	7.54	16.82	4.96	-5.68	4.85	.20	-2.66	.26	ALP	8.26	7.65			
109	203	312	264.78	-3.01	261.77	2.84	7.00	7.75	17.10	6.48	-4.61	4.74	.20	-2.78	.26	ALP	8.27	7.65			
109	204	313	269.03	-3.18	265.85	3.99	6.83	7.81	17.37	5.40	-6.12	4.64	.20	-2.89	.27	ALP	8.28	7.66			
109	205	314	274.57	-3.33	271.24	2.68	6.67	8.02	17.64	6.91	-5.05	4.53	.20	-2.99	.27	ALP	8.29	7.67			
109	206	315	278.96	-3.48	275.48	3.83	6.51	8.10	17.92	5.83	-6.56	4.42	.19	-3.09	.27	ALP	8.30	7.67			
109	207	316	284.65	-3.62	281.03	2.52	6.35	8.29	18.19	7.33	-5.49	4.30	.19	-3.18	.27	ALP	8.31	7.68			
109	208	317	289.19	-3.74	285.45	3.66	6.18	8.36	18.44	6.27	-6.98	4.21	.19	-3.27	.27	ALP	8.32	7.68			
109	209	318	295.02	-3.86	291.16	2.36	6.02	8.56	18.71	7.76	-5.91	4.09	.19	-3.35	.27	ALP	8.33	7.69			
109	210	319	299.69	-3.96	295.73	3.50	5.86	8.63	18.98	6.69	-7.40	3.99	.19	-3.43	.27	ALP	8.34	7.69			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SHARP DEF	I	RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
110	130	240	170.01	-.92	169.09	11.26	21.08	-2.84	-6.91	-15.28	11.54	14.89		.34	.17	ALP	7.38	7.26			
110	131	241	167.80	-.23	167.57	9.59	20.85	-2.73		-13.51		14.73		.09	.15	ALP	7.39	7.26			
110	132	242	164.19	UNSTABLE AGAINST FISSION																	
110	133	243	162.28	UNSTABLE AGAINST FISSION																	
110	134	244	158.96	UNSTABLE AGAINST FISSION																	
110	135	245	157.33	UNSTABLE AGAINST FISSION																	
110	136	246	154.31	-1.31	153.00			-1.94	-5.06		10.68	12.85	.22	-1.30	.25	ALP	7.46	7.29			
110	137	247	152.96	-1.50	151.46	9.61		-1.85	-4.71		11.81	12.80	.21	-1.42	.27	ALP	7.47	7.30			
110	138	248	150.21	-1.69	148.52	11.00	20.62	-1.59	-4.34		10.03	12.74	.21	-1.51	.28	ALP	7.48	7.30			
110	139	249	149.13	-1.86	147.27	9.33	20.33	-1.49	-3.98	-12.01	11.15	12.68	.21	-1.58	.29	ALP	7.50	7.31			
110	140	250	146.67	-2.02	144.65	10.70	20.02	-1.24	-3.64	-13.12	9.39	12.63	.20	-1.64	.29	ALP	7.51	7.31			
110	141	251	145.86	-2.17	143.69	9.03	19.73	-1.14	-3.28	-11.36	10.51	12.56	.20	-1.68	.30	ALP	7.52	7.32			
110	142	252	143.66	-2.31	141.35	10.41	19.44	-.88	-2.91	-12.48	8.74	12.49	.20	-1.72	.30	ALP	7.54	7.33			
110	143	253	143.12	-2.43	140.69	8.74	19.14	-.79	-2.57	-10.71	9.87	12.43	.20	-1.75	.30	ALP	7.55	7.33			
110	144	254	141.19	-2.54	138.65	10.11	18.85	-.53	-2.21	-11.82	8.12	12.36	.20	-1.77	.31	ALP	7.56	7.34			
110	145	255	140.90	-2.64	138.26	8.46	18.57	-.44	-1.86	-10.07	9.23	12.29	.20	-1.79	.31	ALP	7.58	7.34			
110	146	256	139.23	-2.73	136.50	9.82	18.29	-.18	-1.50	-11.18	7.49	12.22	.20	-1.80	.31	ALP	7.59	7.35			
110	147	257	139.19	-2.80	136.39	8.18	18.01	-.09	-1.15	-9.44	8.60	12.14	.20	-1.81	.31	ALP	7.60	7.35			
110	148	258	137.78	-2.86	134.92	9.54	17.72	.16	-.81	-10.54	6.88	12.07	.20	-1.82	.31	ALP	7.62	7.36			
110	149	259	137.98	-2.91	135.07	7.92	17.46	.26	-.45	-8.82	7.98	11.98	.20	-1.83	.31	ALP	7.63	7.36			
110	150	260	136.82	-2.95	133.87	9.27	17.18	.51	-.10	-9.93	6.26	11.91	.20	-1.83	.31	ALP	7.64	7.37			
110	151	261	137.27	-2.97	134.30	7.65	16.91	.60	.24	-8.20	7.37	11.83	.19	-1.83	.31	ALP	7.65	7.38			
110	152	262	136.35	-2.99	133.36	9.00	16.65	.85	.59	-9.31	5.66	11.75	.19	-1.83	.31	ALP	7.67	7.38			
110	153	263	137.03	-2.99	134.04	7.39	16.40	.95	.94	-7.61	6.76	11.65	.19	-1.83	.31	ALP	7.68	7.39			
110	154	264	136.36	-2.98	133.38	8.73	16.13	1.19	1.28	-8.70	5.06	11.58	.19	-1.82	.31	ALP	7.69	7.39			
110	155	265	137.27	-2.95	134.32	7.14	15.87	1.29	1.62	-7.00	6.17	11.49	.19	-1.82	.31	ALP	7.71	7.40			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
110	156	266	136.83	-2.92	133.91	8.48	15.61	1.53	1.96	-8.10	4.47	11.41	.19	-1.81	.31ALP	7.72	7.40			
110	157	267	137.97	-2.87	135.10	6.89	15.36	1.63	2.30	-6.41	5.58	11.32	.19	-1.80	.31ALP	7.73	7.41			
110	158	268	137.76	-2.82	134.94	8.23	15.11	1.87	2.64	-7.51	3.89	11.23	.19	-1.79	.31ALP	7.74	7.41			
110	159	269	139.13	-2.75	136.38	6.64	14.86	1.96	2.97	-5.83	5.00	11.14	.19	-1.78	.31ALP	7.76	7.42			
110	160	270	139.15	-2.67	136.48	7.97	14.61	2.19	3.30	-6.92	3.33	11.06	.19	-1.76	.31ALP	7.77	7.43			
110	161	271	140.73	-2.58	138.15	6.40	14.38	2.29	3.64	-5.25	4.42	10.95	.19	-1.74	.30ALP	7.78	7.43			
110	162	272	140.97	-2.48	138.49	7.73	14.13	2.52	3.97	-6.34	2.76	10.87	.19	-1.72	.30ALP	7.79	7.44			
110	163	273	142.77	-2.37	140.40	6.16	13.90	2.62	4.30	-4.68	3.86	10.77	.19	-1.69	.30ALP	7.81	7.44			
110	164	274	143.22	-2.24	140.98	7.50	13.65	2.85	4.62	-5.77	2.20	10.68	.19	-1.66	.30ALP	7.82	7.45			
110	165	275	145.23	-2.11	143.12	5.93	13.43	2.95	4.96	-4.11	3.30	10.57	.20	-1.62	.29ALP	7.83	7.45			
110	166	276	145.90	-1.97	143.93	7.26	13.19	3.18	5.28	-5.21	1.65	10.48	.20	-1.58	.29ALP	7.84	7.46			
110	167	277	148.12	-1.81	146.31	5.70	12.96	3.26	5.60	-3.55	2.76	10.39	.20	-1.53	.28ALP	7.85	7.46			
110	168	278	148.99	-1.65	147.34	7.04	12.74	3.50	5.93	-4.65	1.11	10.28	.20	-1.46	.27ALP	7.87	7.47			
110	169	279	151.41	-1.48	149.93	5.48	12.52	3.59	6.26	-3.00	2.20	10.17	.20	-1.38	.26ALP	7.88	7.48			
110	170	280	152.49	-1.30	151.19	6.82	12.30	3.83	6.58	-4.09	.57	10.07	.21	-1.28	.25ALP	7.89	7.48			
110	171	281	155.11	UNSTABLE AGAINST FISSION																
110	172	282	156.39	UNSTABLE AGAINST FISSION																
110	173	283	159.20	UNSTABLE AGAINST FISSION																
110	174	284	160.69	UNSTABLE AGAINST FISSION																
110	175	285	163.69	.06	163.75						1.21			.06	.03ALP	7.95	7.51			
110	176	286	165.36	-.52	164.84	6.98		4.99	8.90	-3.04	-.37			.14	.15ALP	7.96	7.52			
110	177	287	168.55	-1.12	167.43	5.49	12.46	5.08	9.20	-1.47	.76			.37	.16ALP	7.97	7.52			
110	178	288	170.42	-1.75	168.67	6.83	12.32	5.29	9.51	-2.59	-.81	7.09		.63	.17ALP	7.99	7.53			
110	179	289	173.79	-2.39	171.40	5.35	12.17	5.38	9.81	-1.01	.32	6.92		.90	.17ALP	8.00	7.53			
110	180	290	175.84	-3.06	172.78	6.69	12.03	5.60	10.11	-2.14	-1.25	6.76		1.18	.17ALP	8.01	7.54			
110	181	291	179.40	-3.75	175.65	5.20	11.89	5.67	10.41	-.57	-.12	6.60		1.47	.17ALP	8.02	7.54			
110	182	292	181.63	-4.47	177.16	6.55	11.76	5.89	10.72	-1.70	-1.68	6.42		1.77	.18ALP	8.03	7.55			
110	183	293	185.36	-5.20	180.16	5.08	11.63	5.97	11.01	-.14	-.56	6.26		2.08	.17ALP	8.05	7.56			
110	184	294	187.78	-5.95	181.83	6.41	11.48	6.18	11.30	-1.25	-3.70	6.11		2.40	.18ALP	8.06	7.56			
110	185	295	191.68	-5.13	186.55	3.34	9.76	6.27	11.61	1.89	-2.59	7.53		2.02	.17ALP	8.07	7.57			
110	186	296	194.27	-4.33	189.94	4.68	8.03	6.49	11.91	.77	-4.12	8.96		1.66	.17ALP	8.08	7.57			
110	187	297	198.34	-3.56	194.78	3.23	7.91	6.57	12.21	2.31	-3.00	8.77		1.31	.17ALP	8.09	7.58			
110	188	298	201.11	-2.82	198.29	4.57	7.79	6.78	12.51	1.20	-4.53	8.59		.97	.17ALP	8.10	7.58			
110	189	299	205.35	-2.11	203.24	3.12	7.68	6.86	12.81	2.72	-3.41	8.40		.65	.16ALP	8.11	7.59			
110	190	300	208.29	-1.42	206.87	4.45	7.56	7.07	13.09	1.61	-4.93	8.23		.35	.16ALP	8.13	7.60			
110	191	301	212.69	-.76	211.93	3.01	7.45	7.16	13.40	3.13		8.03		.08	.15ALP	8.14	7.60			
110	192	302	215.79	-.13	215.66	4.34	7.35			2.01		7.85		-.06	.09ALP	8.15	7.61			
110	193	303	220.36	UNSTABLE AGAINST FISSION																
110	194	304	223.63	UNSTABLE AGAINST FISSION																
110	195	305	228.35	UNSTABLE AGAINST FISSION																
110	196	306	231.78	UNSTABLE AGAINST FISSION																
110	197	307	236.66	UNSTABLE AGAINST FISSION																
110	198	308	240.25	UNSTABLE AGAINST FISSION																
110	199	309	245.28	UNSTABLE AGAINST FISSION																
110	200	310	249.02	-2.44	246.58			8.27	15.54		-6.05	5.53	.21	-2.43	.24ALP	8.24	7.65			
110	201	311	254.21	-2.63	251.58	3.07		8.33	15.81		-4.96	5.43	.21	-2.58	.25ALP	8.25	7.66			
110	202	312	258.10	-2.81	255.29	4.36	7.43	8.54	16.08	3.17	-6.48	5.32	.20	-2.72	.25ALP	8.26	7.66			
110	203	313	263.43	-2.98	260.45	2.92	7.27	8.61	16.35	4.68	-5.40	5.22	.20	-2.84	.26ALP	8.27	7.67			
110	204	314	267.48	-3.15	264.33	4.19	7.10	8.80	16.63	3.60	-6.91	5.11	.20	-2.95	.26ALP	8.28	7.68			
110	205	315	272.95	-3.30	269.65	2.75	6.94	8.88	16.90	5.11	-5.83	5.00	.20	-3.06	.26ALP	8.29	7.68			
110	206	316	277.14	-3.44	273.70	4.03	6.78	9.08	17.17	4.04	-7.34	4.90	.20	-3.16	.27ALP	8.31	7.69			
110	207	317	282.76	-3.58	279.18	2.59	6.61	9.14	17.44	5.54	-6.27	4.79	.20	-3.25	.27ALP	8.32	7.69			
110	208	318	287.10	-3.70	283.40	3.86	6.44	9.34	17.70	4.48	-7.76	4.69	.19	-3.34	.27ALP	8.33	7.70			
110	209	319	292.85	-3.82	289.03	2.44	6.30	9.41	17.98	5.97	-6.70	4.57	.19	-3.42	.27ALP	8.34	7.70			
110	210	320	297.34	-3.92	293.42	3.69	6.12	9.60	18.23	4.92	-8.17	4.48	.19	-3.50	.27ALP	8.35	7.71			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
111	141	252	155.99	-2.17	153.82	9.30	20.10	-2.85	-3.98	-10.47	12.46	12.90	.21	-1.88	.29ALP	7.53	7.34			
111	142	253	153.70	-2.30	151.40	10.50	19.79	-2.76	-3.64	-11.57	10.72	12.85	.20	-1.92	.29ALP	7.54	7.34			
111	143	254	152.89	-2.42	150.47	9.00	19.50	-2.50	-3.28	-9.82	11.83	12.79	.20	-1.96	.29ALP	7.56	7.35			
111	144	255	150.86	-2.53	148.33	10.21	19.21	-2.40	-2.93	-10.93	10.08	12.72	.20	-1.99	.30ALP	7.57	7.35			
111	145	256	150.31	-2.63	147.68	8.72	18.93	-2.14	-2.57	-9.20	11.18	12.65	.20	-2.01	.30ALP	7.58	7.36			
111	146	257	148.55	-2.71	145.84	9.92	18.64	-2.05	-2.23	-10.29	9.46	12.59	.20	-2.02	.30ALP	7.60	7.36			
111	147	258	148.25	-2.78	145.47	8.44	18.36	-1.79	-1.88	-8.56	10.56	12.52	.20	-2.04	.30ALP	7.61	7.37			
111	148	259	146.74	-2.84	143.90	9.64	18.08	-1.70	-1.53	-9.66	8.83	12.45	.20	-2.05	.30ALP	7.62	7.38			
111	149	260	146.69	-2.89	143.80	8.17	17.81	-1.44	-1.18	-7.95	9.93	12.36	.20	-2.05	.30ALP	7.64	7.38			
111	150	261	145.43	-2.93	142.50	9.37	17.54	-1.34	-.83	-9.05	8.21	12.29	.20	-2.05	.31ALP	7.65	7.39			
111	151	262	145.62	-2.95	142.67	7.90	17.27	-1.09	-.48	-7.34	9.31	12.20	.20	-2.05	.31ALP	7.66	7.39			
111	152	263	144.61	-2.96	141.65	9.10	16.99	-1.00	-.15	-8.44	7.60	12.13	.20	-2.05	.31ALP	7.67	7.40			
111	153	264	145.04	-2.96	142.08	7.64	16.74	-.74	.20	-6.74	8.70	12.05	.20	-2.05	.31ALP	7.69	7.40			
111	154	265	144.27	-2.95	141.32	8.83	16.47	-.65	.54	-7.83	7.00	11.97	.20	-2.04	.31ALP	7.70	7.41			
111	155	266	144.94	-2.93	142.01	7.38	16.21	-.40	.89	-6.14	8.10	11.88	.20	-2.03	.31ALP	7.71	7.41			
111	156	267	144.40	-2.89	141.51	8.58	15.95	-.31	1.22	-7.24	6.41	11.80	.20	-2.02	.30ALP	7.73	7.42			
111	157	268	145.30	-2.85	142.45	7.13	15.70	-.06	1.56	-5.55	7.50	11.71	.20	-2.01	.30ALP	7.74	7.43			
111	158	269	144.99	-2.79	142.20	8.32	15.45	.03	1.90	-6.65	5.82	11.62	.20	-1.99	.30ALP	7.75	7.43			
111	159	270	146.12	-2.72	143.40	6.88	15.20	.27	2.23	-4.97	6.92	11.54	.20	-1.97	.30ALP	7.76	7.44			
111	160	271	146.04	-2.64	143.40	8.07	14.95	.37	2.56	-6.06	5.25	11.45	.20	-1.95	.30ALP	7.78	7.44			
111	161	272	147.38	-2.55	144.83	6.64	14.71	.61	2.90	-4.40	6.34	11.36	.20	-1.92	.30ALP	7.79	7.45			
111	162	273	147.53	-2.45	145.08	7.82	14.46	.70	3.23	-5.49	4.68	11.27	.20	-1.89	.29ALP	7.80	7.45			
111	163	274	149.09	-2.34	146.75	6.40	14.23	.94	3.56	-3.83	5.77	11.17	.20	-1.86	.29ALP	7.81	7.46			
111	164	275	149.45	-2.21	147.24	7.59	13.98	1.03	3.88	-4.92	4.12	11.09	.20	-1.82	.29ALP	7.82	7.46			
111	165	276	151.22	-2.08	149.14	6.17	13.75	1.27	4.22	-3.27	5.21	10.98	.20	-1.77	.28ALP	7.84	7.47			
111	166	277	151.80	-1.94	149.86	7.35	13.52	1.36	4.54	-4.36	3.56	10.89	.20	-1.71	.28ALP	7.85	7.48			
111	167	278	153.78	-1.79	151.99	5.94	13.29	1.60	4.87	-2.71	4.65	10.79	.20	-1.64	.27ALP	7.86	7.48			
111	168	279	154.56	-1.63	152.93	7.13	13.07	1.70	5.20	-3.81	3.00	10.68	.21	-1.56	.26ALP	7.87	7.49			
111	169	280	156.75	-1.47	155.28	5.72	12.85	1.94	5.53	-2.16	4.09	10.57	.21	-1.45	.24ALP	7.89	7.49			
111	170	281	157.74	UNSTABLE AGAINST FISSION																

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SHARP DEF I	RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
111	171	282	160.13	UNSTABLE AGAINST FISSION																
111	172	283	161.32	UNSTABLE AGAINST FISSION																
111	173	284	163.90	UNSTABLE AGAINST FISSION																
111	174	285	165.30	UNSTABLE AGAINST FISSION																
111	175	286	168.07	-.19	167.88			3.15			3.04			.01	.13ALP	7.96	7.53			
111	176	287	169.66	-.76	168.90	7.06		3.24	8.22	-2.17	1.47			.19	.15ALP	7.97	7.53			
111	177	288	172.62	-1.36	171.26	5.71	12.77	3.46	8.53	-.60	2.59			.42	.16ALP	7.98	7.54			
111	178	289	174.40	-1.99	172.41	6.91	12.63	3.55	8.84	-1.73	1.01	7.44		.68	.17ALP	7.99	7.54			
111	179	290	177.55	-2.63	174.92	5.57	12.48	3.77	9.14	-.16	2.14	7.28		.94	.17ALP	8.00	7.55			
111	180	291	179.52	-3.30	176.22	6.77	12.34	3.85	9.44	-1.28	.58	7.12		1.22	.17ALP	8.02	7.55			
111	181	292	182.85	-3.99	178.86	5.43	12.20	4.07	9.75	.28	1.69	6.95		1.51	.17ALP	8.03	7.56			
111	182	293	185.00	-4.70	180.30	6.63	12.06	4.15	10.05	-.84	.14	6.79		1.81	.17ALP	8.04	7.57			
111	183	294	188.51	-5.43	183.08	5.29	11.92	4.37	10.34	.71	1.26	6.63		2.12	.17ALP	8.05	7.57			
111	184	295	190.84	-6.18	184.66	6.49	11.79	4.45	10.64	-.40	-1.89	6.47		2.44	.18ALP	8.06	7.58			
111	185	296	194.52	-5.36	189.16	3.57	10.06	4.68	10.95	2.73	-.78	7.89		2.07	.17ALP	8.07	7.58			
111	186	297	197.03	-4.56	192.47	4.77	8.33	4.76	11.24	1.62	-2.31	9.32		1.70	.17ALP	8.09	7.59			
111	187	298	200.89	-3.79	197.10	3.45	8.21	4.97	11.54	3.16	-1.19	9.14		1.35	.17ALP	8.10	7.59			
111	188	299	203.57	-3.05	200.52	4.65	8.10	5.06	11.84	2.04	-2.72	8.96		1.02	.17ALP	8.11	7.60			
111	189	300	207.60	-2.34	205.26	3.33	7.98	5.27	12.13	3.56	-1.60	8.78		.70	.16ALP	8.12	7.61			
111	190	301	210.45	-1.66	208.79	4.53	7.87	5.36	12.44	2.44	-3.14	8.58		.40	.16ALP	8.13	7.61			
111	191	302	214.64	-1.00	213.64	3.23	7.76	5.58	12.73	3.96	-2.02	8.40		.13	.15ALP	8.14	7.62			
111	192	303	217.67	-.37	217.30	4.41	7.64	5.65		2.85		8.22		-.07	.12ALP	8.16	7.62			
111	193	304	222.02	UNSTABLE AGAINST FISSION																
111	194	305	225.21	UNSTABLE AGAINST FISSION																
111	195	306	229.72	UNSTABLE AGAINST FISSION																
111	196	307	233.08	UNSTABLE AGAINST FISSION																
111	197	308	237.75	UNSTABLE AGAINST FISSION																
111	198	309	241.26	UNSTABLE AGAINST FISSION																
111	199	310	246.08	UNSTABLE AGAINST FISSION																
111	200	311	249.75	UNSTABLE AGAINST FISSION																
111	201	312	254.73	-2.61	252.12			6.74	15.08		-3.17	5.88	.22	-2.61	.23ALP	8.26	7.67			
111	202	313	258.55	-2.78	255.77	4.42		6.81	15.35		-4.68	5.78	.21	-2.75	.24ALP	8.27	7.68			
111	203	314	263.67	-2.95	260.72	3.12	7.54	7.01	15.63		-3.61	5.67	.21	-2.88	.25ALP	8.28	7.69			
111	204	315	267.64	-3.11	264.53	4.26	7.38	7.09	15.90	4.40	-5.12	5.57	.20	-3.00	.25ALP	8.29	7.69			
111	205	316	272.91	-3.26	269.65	2.96	7.22	7.29	16.17	5.90	-4.05	5.46	.20	-3.11	.26ALP	8.30	7.70			
111	206	317	277.04	-3.40	273.64	4.09	7.04	7.35	16.42	4.84	-5.54	5.37	.20	-3.21	.26ALP	8.31	7.70			
111	207	318	282.45	-3.53	278.92	2.79	6.88	7.55	16.70	6.33	-4.48	5.26	.20	-3.31	.26ALP	8.32	7.71			
111	208	319	286.72	-3.66	283.06	3.93	6.72	7.62	16.96	5.26	-5.98	5.15	.20	-3.40	.26ALP	8.33	7.71			
111	209	320	292.27	-3.77	288.50	2.63	6.56	7.83	17.24	6.75	-4.91	5.04	.20	-3.48	.26ALP	8.34	7.72			
111	210	321	296.68	-3.87	292.81	3.77	6.39	7.90	17.50	5.69	-6.40	4.94	.20	-3.56	.27ALP	8.36	7.73			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SHARP DEF I	RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
112	135	247	178.79	UNSTABLE AGAINST FISSICN																
112	136	248	175.40	UNSTABLE AGAINST FISSION																
112	137	249	173.68	UNSTABLE AGAINST FISSION																
112	138	250	170.57	UNSTABLE AGAINST FISSION																
112	139	251	169.13	-1.87	167.26			-2.20	-5.41		12.21	13.38	.23	-1.87	.25ALP	7.51	7.34			
112	140	252	166.30	-2.02	164.28	11.05		-1.94	-5.05		10.45	13.33	.22	-1.96	.26ALP	7.53	7.35			
112	141	253	165.13	-2.16	162.97	9.38	20.43	-1.86	-4.71		11.57	13.27	.21	-2.04	.27ALP	7.54	7.35			
112	142	254	162.58	-2.29	160.29	10.75	20.14	-1.60	-4.36	-13.52	9.82	13.22	.21	-2.09	.28ALP	7.55	7.36			
112	143	255	161.67	-2.40	159.27	9.10	19.85	-1.51	-4.01	-11.77	10.94	13.16	.21	-2.14	.28ALP	7.56	7.36			
112	144	256	159.39	-2.51	156.88	10.46	19.56	-1.26	-3.66	-12.88	9.20	13.10	.20	-2.17	.29ALP	7.58	7.37			
112	145	257	158.74	-2.60	156.14	8.81	19.27	-1.16	-3.31	-11.13	10.31	13.03	.20	-2.20	.29ALP	7.59	7.38			
112	146	258	156.72	-2.69	154.03	10.17	18.99	-.91	-2.95	-12.24	8.57	12.96	.20	-2.22	.29ALP	7.60	7.38			
112	147	259	156.32	-2.76	153.56	8.54	18.71	-.81	-2.60	-10.52	9.67	12.88	.20	-2.24	.29ALP	7.62	7.39			
112	148	260	154.56	-2.82	151.74	9.89	18.43	-.56	-2.25	-11.62	7.94	12.82	.20	-2.25	.30ALP	7.63	7.39			
112	149	261	154.41	-2.86	151.55	8.27	18.16	-.46	-1.90	-9.89	9.05	12.74	.20	-2.26	.30ALP	7.64	7.40			
112	150	262	152.91	-2.90	150.01	9.61	17.88	-.22	-1.56	-10.99	7.34	12.67	.20	-2.26	.30ALP	7.66	7.40			
112	151	263	153.01	-2.92	150.09	7.99	17.61	-.13	-1.22	-9.27	8.44	12.60	.20	-2.26	.30ALP	7.67	7.41			
112	152	264	151.75	-2.93	148.82	9.34	17.33	.12	-.88	-10.37	6.74	12.53	.20	-2.26	.30ALP	7.68	7.41			
112	153	265	152.08	-2.93	149.15	7.74	17.08	.22	-.53	-8.67	7.83	12.43	.20	-2.25	.30ALP	7.69	7.42			
112	154	266	151.07	-2.92	148.15	9.07	16.81	.46	-.19	-9.76	6.14	12.36	.20	-2.24	.30ALP	7.71	7.43			
112	155	267	151.64	-2.89	148.75	7.47	16.55	.55	.15	-8.06	7.24	12.28	.20	-2.23	.30ALP	7.72	7.43			
112	156	268	150.86	-2.86	148.00	8.82	16.29	.80	.49	-9.16	5.55	12.20	.20	-2.21	.30ALP	7.73	7.44			
112	157	269	151.66	-2.81	148.85	7.23	16.04	.89	.83	-7.47	6.64	12.11	.20	-2.19	.30ALP	7.74	7.44			
112	158	270	151.12	-2.75	148.37	8.56	15.78	1.13	1.15	-8.56	4.97	12.03	.20	-2.17	.29ALP	7.76	7.45			
112	159	271	152.15	-2.68	149.47	6.97	15.53	1.22	1.49	-6.88	6.07	11.94	.20	-2.15	.29ALP	7.77	7.45			
112	160	272	151.83	-2.60	149.23	8.31	15.28	1.46	1.82	-7.97	4.40	11.86	.20	-2.12	.29ALP	7.78	7.46			
112	161	273	153.08	-2.51	150.57	6.73	15.04	1.55	2.16	-6.30	5.49	11.76	.20	-2.09	.29ALP	7.79	7.46			
112	162	274	152.99	-2.41	150.58	8.06	14.79	1.79	2.49	-7.39	3.83	11.68	.20	-2.05	.28ALP	7.81	7.47			
112	163	275	154.46	-2.30	152.16	6.49	14.55	1.88	2.82	-5.73	4.93	11.58	.20	-2.00	.28ALP	7.82	7.48			
112	164	276	154.59	-2.18	152.41	7.82	14.31	2.11	3.15	-6.81	3.27	11.49	.20	-1.95	.27ALP	7.83	7.48			
112	165	277	156.27	-2.05	154.22	6.26	14.08	2.21	3.48	-5.16	4.36	11.39	.20	-1.89	.27ALP	7.84	7.49			
112	166	278	156.61	-1.91	154.70	7.59	13.85	2.45	3.81	-6.25	2.71	11.30	.21	-1.82	.26ALP	7.86	7.49			
112	167	279	158.50	-1.76	156.74	6.04	13.62	2.54	4.14	-4.59	3.81	11.19	.21	-1.73	.25ALP	7.87	7.50			
112	168	280	159.06	-1.62	157.44	7.36	13.40	2.78	4.48		2.16	11.08	.23	-1.62	.23ALP	7.88	7.50			
112	169	281	161.15	UNSTABLE AGAINST FISSION																
112	170	282	161.92	UNSTABLE AGAINST FISSION																
112	171	283	164.21	UNSTABLE AGAINST FISSION																
112	172	284	165.18	UNSTABLE AGAINST FISSION																
112	173	285	167.67	UNSTABLE AGAINST FISSION																
112	174	286	168.84	UNSTABLE AGAINST FISSION																
112	175	287	171.53	-.46	171.07			4.10	7.26	-2.89	2.17			.04	.14ALP	7.96	7.54			
112	176	288	172.90	-1.03	171.87	7.28		4.32	7.55	-4.00	.61			.24	.16ALP	7.98	7.55			
112	177	289	175.77	-1.63	174.14	5.80	13.08	4.41	7.87	-2.43	1.73	7.97		.48	.16ALP	7.99	7.55			
112	178	290	177.33	-2.25	175.08	7.14	12.93	4.63	8.17	-3.55	.16	7.81		.73	.17ALP	8.00	7.56			
112	179	291	180.39	-2.90	177.49	5.66	12.79	4.71	8.48	-1.99	1.27	7.64		1.00	.17ALP	8.01	7.56			

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	SHARP NEU	RADIUS PRO	EXPERIMENTAL MASS	SHELL	DIFF
112	180	292	182.14	-3.56	178.58	6.99	12.64	4.93	8.78	-3.10	-.28	7.48		1.28	.17ALP	8.02	7.57			
112	181	293	185.39	-4.25	181.14	5.51	12.50	5.01	9.08	-1.54	.84	7.32		1.57	.17ALP	8.03	7.58			
112	182	294	187.32	-4.95	182.37	6.85	12.36	5.23	9.37	-2.65	-.71	7.17		1.87	.17ALP	8.05	7.58			
112	183	295	190.75	-5.68	185.07	5.37	12.21	5.30	9.67	-1.09	.41	7.00		2.18	.17ALP	8.06	7.59			
112	184	296	192.86	-6.43	186.43	6.71	12.08	5.52	9.97	-2.21	-2.74	6.84		2.50	.17ALP	8.07	7.59			
112	185	297	196.47	-5.61	190.86	3.64	10.35	5.60	10.27	.93	-1.61	8.27		2.12	.17ALP	8.08	7.60			
112	186	298	198.76	-4.82	193.94	4.98	8.64	5.82	10.58	-.19	-3.15	9.69		1.76	.17ALP	8.09	7.60			
112	187	299	202.54	-4.05	198.49	3.53	8.51	5.90	10.87	1.35	-2.03	9.51		1.41	.17ALP	8.10	7.61			
112	188	300	205.01	-3.31	201.70	4.86	8.39	6.11	11.17	.24	-3.56	9.34		1.08	.17ALP	8.12	7.62			
112	189	301	208.95	-2.60	206.35	3.42	8.28	6.20	11.47	1.76	-2.45	9.14		.76	.16ALP	8.13	7.62			
112	190	302	211.60	-1.92	209.68	4.74	8.16	6.40	11.76	.65	-3.97	8.97		.46	.16ALP	8.14	7.63			
112	191	303	215.71	-1.26	214.45	3.30	8.04	6.48	12.06	2.17	-2.85	8.78		.19	.15ALP	8.15	7.63			
112	192	304	218.52	-.63	217.89	4.63	7.93	6.70	12.35	1.06		8.60		-.04	.13ALP	8.16	7.64			
112	193	305	222.80	-.02	222.78	3.19	7.81			2.58		8.43		-.02	.01ALP	8.17	7.64			
112	194	306	225.78	UNSTABLE AGAINST FISSION																
112	195	307	230.21	UNSTABLE AGAINST FISSION																
112	196	308	233.36	UNSTABLE AGAINST FISSION																
112	197	309	237.95	UNSTABLE AGAINST FISSION																
112	198	310	241.26	UNSTABLE AGAINST FISSION																
112	199	311	246.01	UNSTABLE AGAINST FISSION																
112	200	312	249.47	UNSTABLE AGAINST FISSION																
112	201	313	254.37	UNSTABLE AGAINST FISSION																
112	202	314	257.99	UNSTABLE AGAINST FISSION																
112	203	315	263.04	-2.91	260.13			7.89	14.90		-4.41	6.13	.21	-2.90	.23ALP	8.28	7.70			
112	204	316	266.82	-3.06	263.76	4.45		8.07	15.15		-5.90	6.04	.21	-3.03	.24ALP	8.30	7.71			
112	205	317	272.02	-3.21	268.81	3.02	7.47	8.14	15.42		-4.83	5.94	.21	-3.15	.25ALP	8.31	7.71			
112	206	318	275.94	-3.35	272.59	4.29	7.31	8.34	15.69	3.06	-6.33	5.83	.20	-3.26	.25ALP	8.32	7.72			
112	207	319	281.28	-3.48	277.80	2.86	7.15	8.41	15.96	4.56	-5.26	5.72	.20	-3.36	.25ALP	8.33	7.72			
112	208	320	285.35	-3.60	281.75	4.12	6.98	8.60	16.22	3.49	-6.75	5.62	.20	-3.45	.26ALP	8.34	7.73			
112	209	321	290.83	-3.72	287.11	2.70	6.83	8.68	16.50	4.97	-5.70	5.50	.20	-3.53	.26ALP	8.35	7.73			
112	210	322	295.05	-3.82	291.23	3.96	6.66	8.87	16.76	3.92	-7.18	5.41	.20	-3.61	.26ALP	8.36	7.74			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	DEF I	SHARP NEU	RADIUS PRO	EXPERIMENTAL MASS	SHELL	DIFF
113	145	258	168.85	-2.58	166.27	9.07	19.63	-2.85	-4.01	-10.25	12.24	13.38	.21	-2.37	.28ALP	7.60	7.39			
113	146	259	166.73	-2.66	164.07	10.27	19.35	-2.75	-3.66	-11.35	10.51	13.31	.21	-2.39	.28ALP	7.61	7.40			
113	147	260	166.08	-2.72	163.36	8.79	19.06	-2.50	-3.32	-9.62	11.61	13.25	.21	-2.41	.28ALP	7.62	7.40			
113	148	261	164.22	-2.78	161.44	9.99	18.78	-2.40	-2.97	-10.73	9.89	13.18	.20	-2.43	.28ALP	7.64	7.41			
113	149	262	163.82	-2.83	160.99	8.52	18.51	-2.15	-2.62	-9.02	10.98	13.10	.20	-2.44	.29ALP	7.65	7.41			
113	150	263	162.22	-2.86	159.36	9.71	18.23	-2.06	-2.28	-10.11	9.27	13.04	.20	-2.44	.29ALP	7.66	7.42			
113	151	264	162.07	-2.88	159.19	8.24	17.95	-1.81	-1.94	-8.39	10.37	12.97	.20	-2.44	.29ALP	7.68	7.43			
113	152	265	160.71	-2.89	157.82	9.44	17.68	-1.72	-1.59	-9.49	8.67	12.89	.20	-2.44	.29ALP	7.69	7.43			
113	153	266	160.80	-2.89	157.91	7.98	17.42	-1.47	-1.25	-7.80	9.76	12.81	.20	-2.43	.29ALP	7.70	7.44			
113	154	267	159.69	-2.87	156.82	9.17	17.14	-1.38	-.92	-8.88	8.07	12.75	.20	-2.42	.29ALP	7.71	7.44			
113	155	268	160.01	-2.85	157.16	7.72	16.89	-1.12	-.57	-7.20	9.16	12.65	.20	-2.40	.29ALP	7.73	7.45			
113	156	269	159.14	-2.81	156.33	8.91	16.62	-1.03	-.24	-8.28	7.48	12.59	.20	-2.38	.29ALP	7.74	7.45			
113	157	270	159.70	-2.77	156.93	7.46	16.37	-.79	.10	-6.61	8.56	12.49	.20	-2.36	.29ALP	7.75	7.46			
113	158	271	159.06	-2.71	156.35	8.65	16.12	-.70	.43	-7.70	6.89	12.42	.20	-2.33	.28ALP	7.76	7.46			
113	159	272	159.84	-2.64	157.20	7.22	15.87	-.45	.77	-6.03	7.97	12.32	.20	-2.30	.28ALP	7.78	7.47			
113	160	273	159.43	-2.56	156.87	8.40	15.62	-.35	1.11	-7.12	6.30	12.24	.20	-2.27	.28ALP	7.79	7.48			
113	161	274	160.44	-2.47	157.97	6.97	15.37	-.11	1.44	-5.45	7.39	12.15	.20	-2.22	.28ALP	7.80	7.48			
113	162	275	160.26	-2.37	157.89	8.15	15.12	-.02	1.77	-6.53	5.73	12.07	.20	-2.18	.27ALP	7.81	7.49			
113	163	276	161.49	-2.26	159.23	6.73	14.88	.22	2.10	-4.87	6.82	11.97	.21	-2.12	.27ALP	7.83	7.49			
113	164	277	161.52	-2.14	159.38	7.92	14.65	.32	2.43	-5.96	5.16	11.88	.21	-2.05	.26ALP	7.84	7.50			
113	165	278	162.97	-2.02	160.95	6.50	14.42	.55	2.77	-4.31	6.25	11.78	.21	-1.98	.25ALP	7.85	7.50			
113	166	279	163.22	-1.89	161.33	7.69	14.19	.66	3.11		4.59	11.67	.22	-1.88	.24ALP	7.86	7.51			
113	167	280	164.87	UNSTABLE AGAINST FISSION																
113	168	281	165.34	UNSTABLE AGAINST FISSION																
113	169	282	167.20	UNSTABLE AGAINST FISSION																
113	170	283	167.88	UNSTABLE AGAINST FISSION																
113	171	284	169.94	UNSTABLE AGAINST FISSION																
113	172	285	170.82	UNSTABLE AGAINST FISSION																
113	173	286	173.09	UNSTABLE AGAINST FISSION																
113	174	287	174.17	-.21	173.96					-3.60	2.89			-.04	.11ALP	7.96	7.55			
113	175	288	176.63	-.76	175.87	6.16		2.49	6.59	-2.02	4.01			.10	.15ALP	7.97	7.56			
113	176	289	177.91	-1.33	176.58	7.36	13.52	2.57	6.89	-3.13	2.44			.31	.16ALP	7.98	7.56			
113	177	290	180.56	-1.93	178.63	6.01	13.38	2.80	7.20	-1.57	3.55	8.32		.55	.16ALP	7.99	7.57			
113	178	291	182.03	-2.55	179.48	7.22	13.24	2.89	7.51	-2.69	1.98	8.16		.80	.17ALP	8.01	7.58			
113	179	292	184.87	-3.19	181.68	5.87	13.09	3.11	7.82	-1.13	3.10	8.00		1.07	.17ALP	8.02	7.58			
113	180	293	186.53	-3.85	182.68	7.07	12.94	3.19	8.12	-2.24	1.54	7.84		1.35	.17ALP	8.03	7.59			
113	181	294	189.55	-4.53	185.02	5.74	12.80	3.42	8.42	-.68	2.65	7.68		1.64	.17ALP	8.04	7.59			
113	182	295	191.41	-5.24	186.17	6.92	12.65	3.49	8.71	-1.79	1.11	7.53		1.93	.17ALP	8.05	7.60			
113	183	296	194.61	-5.97	188.64	5.59	12.52	3.71	9.02	-.25	2.21	7.36		2.24	.17ALP	8.06	7.60			
113	184	297	196.64	-6.71	189.93	6.79	12.38	3.80	9.31	-1.36	-.92	7.20		2.56	.17ALP	8.08	7.61			
113	185	298	200.03	-5.89	194.14	3.86	10.65	4.01	9.60	1.78	.20	8.64		2.19	.17ALP	8.09	7.61			
113	186	299	202.24	-5.10	197.14	5.06	8.93	4.10	9.91	.66	-1.34	10.05		1.83	.17ALP	8.10	7.62			
113	187	300	205.80	-4.34	201.46	3.75	8.81	4.31	10.21	2.19	-.24	9.87		1.48	.17ALP	8.11	7.63			
113	188	301	208.19	-3.60	204.59	4.94	8.69	4.39	10.51	1.08	-1.76	9.69		1.15	.17ALP	8.12	7.63			
113	189	302	211.92	-2.89	209.03	3.63	8.57	4.61	10.80	2.60	-.65	9.51		.83	.16ALP	8.13	7.64			
113	190	303	214.48	-2.20	212.28	4.82	8.45	4.69	11.10	1.50	-2.17	9.34		.53	.16ALP	8.14	7.64			
113	191	304	218.38	-1.55	216.83	3.52	8.34	4.91	11.39	3.01	-1.07	9.15		.26	.15ALP	8.16	7.65			
113	192	305	221.11	-.92	220.19	4.71	8.23	4.99	11.69	1.90	-2.59	8.97		.02	.14ALP	8.17	7.65			
113	193	306	225.18	-.31	224.87	3.40	8.10	5.20		3.42		8.80		-.13	.11ALP	8.18	7.66			
113	194	307	228.08	UNSTABLE AGAINST FISSION																
113	195	308	232.30	UNSTABLE AGAINST FISSION																
113	196	309	235.37	UNSTABLE AGAINST FISSION																
113	197	310	239.76	UNSTABLE AGAINST FISSION																
113	198	311	242.99	UNSTABLE AGAINST FISSION																

Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SADDLE DEF I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
113	199	312	247.53	UNSTABLE AGAINST FISSION																
113	200	313	250.92	UNSTABLE AGAINST FISSION																
113	201	314	255.61	UNSTABLE AGAINST FISSION																
113	202	315	259.16	UNSTABLE AGAINST FISSION																
113	203	316	264.00	UNSTABLE AGAINST FISSION																
113	204	317	267.70	UNSTABLE AGAINST FISSION																
113	205	318	272.70	-3.17	269.53			6.56	14.71		-3.06	6.38	.22	-3.16	.23ALP	8.31	7.73			
113	206	319	276.54	-3.30	273.24	4.36		6.64	14.97		-4.56	6.28	.21	-3.28	.24ALP	8.32	7.73			
113	207	320	281.69	-3.43	278.26	3.05	7.41	6.83	15.24		-3.49	6.18	.21	-3.38	.24ALP	8.33	7.74			
113	208	321	285.68	-3.55	282.13	4.20	7.26	6.90	15.51		-4.99	6.07	.20	-3.48	.25ALP	8.35	7.74			
113	209	322	290.97	-3.66	287.31	2.90	7.09	7.10	15.77	5.77	-3.92	5.97	.20	-3.57	.25ALP	8.36	7.75			
113	210	323	295.11	-3.76	291.35	4.03	6.93	7.17	16.04	4.71	-5.41	5.86	.20	-3.65	.25ALP	8.37	7.76			

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Z	N	A	DROPLET MASS	CALC SHELL	CALC MASS	BINDING ENERGY BN	B2N	BZ	B2Z	DECAY ENERGY BETA	EL-CAP	ALPHA	GD STA DEF	SADDLE MASS	SADDLE DEF I	SHARP RADIUS NEU	PRO	EXPERIMENTAL MASS	SHELL	DIFF
114	138	252	192.32	UNSTABLE AGAINST FISSION																
114	139	253	190.51	UNSTABLE AGAINST FISSION																
114	140	254	187.33	UNSTABLE AGAINST FISSION																
114	141	255	185.79	UNSTABLE AGAINST FISSION																
114	142	256	182.88	UNSTABLE AGAINST FISSION																
114	143	257	181.61	-2.38	179.23			-2.19	-5.39		11.96	13.83	.23	-2.37	.24ALP	7.58	7.40			
114	144	258	178.98	-2.47	176.51	10.80		-1.95	-5.06		10.24	13.79	.22	-2.44	.26ALP	7.59	7.40			
114	145	259	177.97	-2.55	175.42	9.17	19.96	-1.86	-4.71		11.34	13.73	.22	-2.49	.26ALP	7.61	7.41			
114	146	260	175.61	-2.63	172.98	10.51	19.68	-1.62	-4.37		9.62	13.68	.21	-2.53	.27ALP	7.62	7.42			
114	147	261	174.86	-2.69	172.17	8.88	19.40	-1.52	-4.03	-11.54	10.73	13.61	.21	-2.55	.27ALP	7.63	7.42			
114	148	262	172.75	-2.74	170.01	10.23	19.11	-1.27	-3.69	-12.64	9.01	13.55	.21	-2.57	.27ALP	7.64	7.43			
114	149	263	172.25	-2.79	169.46	8.61	18.85	-1.18	-3.33	-10.93	10.10	13.47	.21	-2.59	.27ALP	7.66	7.43			
114	150	264	170.40	-2.82	167.58	9.95	18.57	-.93	-2.99	-12.03	8.39	13.41	.21	-2.59	.28ALP	7.67	7.44			
114	151	265	170.15	-2.84	167.31	8.34	18.30	-.84	-2.65	-10.32	9.49	13.33	.21	-2.59	.28ALP	7.68	7.44			
114	152	266	168.55	-2.84	165.71	9.68	18.02	-.60	-2.32	-11.40	7.80	13.27	.21	-2.59	.28ALP	7.70	7.45			
114	153	267	168.54	-2.84	165.70	8.08	17.76	-.50	-1.97	-9.71	8.89	13.19	.21	-2.58	.28ALP	7.71	7.45			
114	154	268	167.19	-2.83	164.36	9.41	17.49	-.26	-1.63	-10.80	7.20	13.12	.20	-2.57	.28ALP	7.72	7.46			
114	155	269	167.42	-2.80	164.62	7.81	17.22	-.17	-1.29	-9.10	8.30	13.04	.20	-2.55	.28ALP	7.73	7.46			
114	156	270	166.30	-2.77	163.53	9.15	16.97	.08	-.95	-10.20	6.60	12.96	.20	-2.52	.27ALP	7.75	7.47			
114	157	271	166.77	-2.72	164.05	7.56	16.71	.17	-.62	-8.51	7.70	12.88	.21	-2.50	.27ALP	7.76	7.48			
114	158	272	165.89	-2.66	163.23	8.89	16.45	.41	-.29	-9.59	6.03	12.80	.21	-2.46	.27ALP	7.77	7.48			
114	159	273	166.58	-2.59	163.99	7.31	16.20	.50	.05	-7.92	7.12	12.71	.21	-2.43	.27ALP	7.78	7.49			
114	160	274	165.93	-2.51	163.42	8.64	15.95	.75	.39	-9.01	5.45	12.63	.21	-2.38	.27ALP	7.80	7.49			
114	161	275	166.85	-2.43	164.42	7.07	15.71	.84	.73	-7.34	6.53	12.53	.21	-2.33	.26ALP	7.81	7.50			
114	162	276	166.43	-2.33	164.10	8.39	15.46	1.08	1.06	-8.42	4.88	12.45	.21	-2.27	.26ALP	7.82	7.50			
114	163	277	167.57	-2.22	165.35	6.83	15.22	1.17	1.38		5.97	12.36	.21	-2.20	.25ALP	7.83	7.51			
114	164	278	167.37	-2.11	165.26	8.16	14.98	1.41	1.72		4.31	12.26	.22	-2.11	.24ALP	7.84	7.51			
114	165	279	168.72	UNSTABLE AGAINST FISSION																
114	166	280	168.75	UNSTABLE AGAINST FISSION																
114	167	281	170.31	UNSTABLE AGAINST FISSION																
114	168	282	170.55	UNSTABLE AGAINST FISSION																
114	169	283	172.32	UNSTABLE AGAINST FISSION																
114	170	284	172.77	UNSTABLE AGAINST FISSION																
114	171	285	174.74	UNSTABLE AGAINST FISSION																
114	172	286	175.40	UNSTABLE AGAINST FISSION																
114	173	287	177.57	-.01	177.56						3.60			-.01	.04ALP	7.95	7.56			
114	174	288	178.43	-.54	177.89	7.74		3.36		-5.43	2.02			-.01	.14ALP	7.97	7.57			
114	175	289	180.80	-1.09	179.71	6.25	13.99	3.44	5.94	-3.85	3.14			.17	.15ALP	7.98	7.57			
114	176	290	181.86	-1.66	180.20	7.59	13.84	3.66	6.24	-4.96	1.57			.39	.16ALP	7.99	7.58			
114	177	291	184.42	-2.25	182.17	6.11	13.69	3.75	6.55	-3.39	2.69	8.67		.63	.16ALP	8.00	7.59			
114	178	292	185.68	-2.87	182.81	7.43	13.53	3.96	6.85	-4.50	1.13	8.52		.88	.17ALP	8.01	7.59			
114	179	293	188.43	-3.51	184.92	5.96	13.39	4.05	7.16	-2.94	2.24	8.36		1.15	.17ALP	8.02	7.60			
114	180	294	189.87	-4.17	185.70	7.29	13.25	4.27	7.46	-4.05	.68	8.20		1.42	.17ALP	8.04	7.60			
114	181	295	192.81	-4.85	187.96	5.82	13.10	4.35	7.76	-2.49	1.80	8.04		1.71	.17ALP	8.05	7.61			
114	182	296	194.45	-5.55	188.90	7.14	12.95	4.56	8.05	-3.59	.26	7.89		2.01	.17ALP	8.06	7.61			
114	183	297	197.57	-6.28	191.29	5.67	12.81	4.64	8.35	-2.05	1.36	7.72		2.32	.17ALP	8.07	7.62			
114	184	298	199.39	-7.02	192.37	6.99	12.67	4.85	8.64	-3.15	-1.76	7.58		2.64	.17ALP	8.08	7.62			
114	185	299	202.68	-6.20	196.48	3.96	10.95	4.94	8.95	-.03	-.66	8.99		2.27	.17ALP	8.09	7.63			
114	186	300	204.68	-5.41	199.27	5.28	9.24	5.16	9.25	-1.14	-2.19	10.41		1.91	.17ALP	8.11	7.64			
114	187	301	208.16	-4.65	203.51	3.83	9.11	5.24	9.55	.39	-1.08	10.23		1.56	.17ALP	8.12	7.64			
114	188	302	210.34	-3.91	206.43	5.15	8.99	5.45	9.84	-.71	-2.60	10.06		1.23	.17ALP	8.13	7.65			
114	189	303	213.99	-3.20	210.79	3.71	8.86	5.53	10.14	.82	-1.49	9.88		.92	.16ALP	8.14	7.65			
114	190	304	216.34	-2.52	213.82	5.04	8.75	5.74	10.44	-.29	-3.01	9.70		.62	.16ALP	8.15	7.66			
114	191	305	220.16	-1.86	218.30	3.60	8.63	5.82	10.73	1.23	-1.90	9.52		.34	.15ALP	8.16	7.66			
114	192	306	222.68	-1.23	221.45	4.92	8.51	6.04	11.02	.12	-3.41	9.34		.09	.15ALP	8.17	7.67			
114	193	307	226.67	-.63	226.04	3.48	8.40	6.11	11.31	1.63		9.17		-.11	.13ALP	8.18	7.67			
114	194	308	229.36	-.05	229.31	4.80	8.28			.53		8.99		-.05	.01ALP	8.20	7.68			
114	195	309	233.51	UNSTABLE AGAINST FISSION																
114	196	310	236.37	UNSTABLE AGAINST*FISSION																
114	197	311	240.68	UNSTABLE AGAINST FISSION																
114	198	312	243.71	UNSTABLE AGAINST FISSION																
114	199	313	248.17	UNSTABLE AGAINST FISSION																
114	200	314	251.36	UNSTABLE AGAINST FISSION																
114	201	315	255.97	UNSTABLE AGAINST FISSION																
114	202	316	259.32	UNSTABLE AGAINST FISSION																
114	203	317	264.09	UNSTABLE AGAINST FISSION																
114	204	318	267.59	UNSTABLE AGAINST FISSION																
114	205	319	272.51	UNSTABLE AGAINST FISSION																
114	206	320	276.16	UNSTABLE AGAINST FISSION																
114	207	321	281.23	UNSTABLE AGAINST FISSION																
114	208	322	285.03	-3.49	281.54			7.89	14.79		-5.77	6.53	.21	-3.49	.23ALP	8.35	7.76			
114	209	323	290.24	-3.60	286.64	2.97		7.96	15.06		-4.71	6.42	.21	-3.58	.24ALP	8.36	7.76			
114	210	324	294.19	-3.70	290.49	4.22	7.19	8.15	15.32		-6.19	6.32	.21	-3.67	.24ALP	8.37	7.77			

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Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
115	149	264	182.35	-2.75	179.60	8.86	19.19	-2.85	-4.02		12.02	13.82	.22	-2.69	.26ALP	7.66	7.45			
115	150	265	180.41	-2.77	177.64	10.04	18.90	-2.76	-3.70		10.33	13.77	.21	-2.70	.26ALP	7.68	7.45			
115	151	266	179.91	-2.79	177.12	8.58	18.63	-2.51	-3.36		11.41	13.70	.21	-2.71	.26ALP	7.69	7.46			
115	152	267	178.21	-2.80	175.41	9.77	18.36	-2.42	-3.01		9.71	13.62	.21	-2.70	.26ALP	7.70	7.46			
115	153	268	177.95	-2.79	175.16	8.33	18.10	-2.17	-2.67		10.80	13.55	.21	-2.70	.26ALP	7.71	7.47			
115	154	269	176.50	-2.78	173.72	9.51	17.83	-2.07	-2.33	-9.91	9.11	13.47	.21	-2.68	.26ALP	7.73	7.48			
115	155	270	176.49	-2.75	173.74	8.06	17.56	-1.83	-2.00	-8.22	10.20	13.40	.21	-2.66	.26ALP	7.74	7.48			
115	156	271	175.28	-2.72	172.56	9.24	17.31	-1.74	-1.66	-9.31	8.51	13.32	.21	-2.63	.26ALP	7.75	7.49			
115	157	272	175.50	-2.67	172.83	7.80	17.05	-1.49	-1.32		9.60	13.24	.21	-2.60	.26ALP	7.77	7.49			
115	158	273	174.52	-2.61	171.91	8.99	16.79	-1.39	-.98		7.92	13.16	.21	-2.56	.26ALP	7.78	7.50			
115	159	274	174.97	-2.55	172.42	7.56	16.55	-1.15	-.64		9.00	13.07	.22	-2.51	.25ALP	7.79	7.50			
115	160	275	174.23	-2.47	171.76	8.74	16.29	-1.05	-.31		7.34	12.99	.22	-2.46	.25ALP	7.80	7.51			
115	161	276	174.91	-2.39	172.52	7.31	16.05	-.81	.03		8.42	12.89	.22	-2.39	.24ALP	7.81	7.51			
115	162	277	174.40	UNSTABLE AGAINST FISSION																
115	163	278	175.30	UNSTABLE AGAINST FISSION																
115	164	279	175.01	UNSTABLE AGAINST FISSION																
115	165	280	176.12	UNSTABLE AGAINST FISSION																
115	166	281	176.06	UNSTABLE AGAINST FISSION																
115	167	282	177.39	UNSTABLE AGAINST FISSION																
115	168	283	177.53	UNSTABLE AGAINST FISSION																
115	169	284	179.07	UNSTABLE AGAINST FISSION																
115	170	285	179.43	UNSTABLE AGAINST FISSION																
115	171	286	181.18	UNSTABLE AGAINST FISSION																
115	172	287	181.74	UNSTABLE AGAINST FISSION																
115	173	288	183.69	-.37	183.32			1.53		-3.44	5.43			-.08	.12ALP	7.96	7.58			
115	174	289	184.46	-.90	183.56	7.82		1.62	4.98	-4.56	3.85			.06	.14ALP	7.97	7.58			
115	175	290	186.60	-1.44	185.16	6.48	14.30	1.85	5.29	-2.98	4.96			.25	.15ALP	7.98	7.59			
115	176	291	187.57	-2.01	185.56	7.67	14.15	1.93	5.59	-4.10	3.39	9.17		.48	.16ALP	8.00	7.60			
115	177	292	189.91	-2.61	187.30	6.33	14.00	2.15	5.90	-2.54	4.49	9.01		.71	.16ALP	8.01	7.60			
115	178	293	191.08	-3.22	187.86	7.52	13.84	2.23	6.20	-3.64	2.94	8.86		.97	.17ALP	8.02	7.61			
115	179	294	193.61	-3.86	189.75	6.18	13.70	2.46	6.51	-2.09	4.05	8.70		1.23	.17ALP	8.03	7.61			
115	180	295	194.97	-4.51	190.46	7.37	13.54	2.54	6.80	-3.19	2.50	8.55		1.51	.17ALP	8.04	7.62			
115	181	296	197.69	-5.19	192.50	6.03	13.40	2.75	7.10	-1.63	3.61	8.40		1.80	.17ALP	8.05	7.62			
115	182	297	199.23	-5.89	193.34	7.23	13.26	2.85	7.40	-2.75	2.05	8.23		2.10	.17ALP	8.07	7.63			
115	183	298	202.13	-6.62	195.51	5.90	13.13	3.06	7.71	-1.21	3.15	8.07		2.40	.17ALP	8.08	7.63			
115	184	299	203.87	-7.36	196.51	7.08	12.97	3.14	8.00	-2.31	.03	7.92		2.72	.17ALP	8.09	7.64			
115	185	300	206.95	-6.54	200.41	4.17	11.25	3.36	8.30	.81	1.14	9.34		2.35	.17ALP	8.10	7.65			
115	186	301	208.87	-5.75	203.12	5.36	9.54	3.44	8.60	-.29	-.39	10.77		2.00	.17ALP	8.11	7.65			
115	187	302	212.13	-4.99	207.14	4.05	9.41	3.66	8.90	1.23	.71	10.58		1.65	.17ALP	8.12	7.66			
115	188	303	214.23	-4.25	209.98	5.23	9.28	3.74	9.19	.13	-.80	10.42		1.32	.17ALP	8.13	7.66			
115	189	304	217.66	-3.54	214.12	3.93	9.16	3.96	9.49	1.65	.30	10.24		1.01	.16ALP	8.15	7.67			
115	190	305	219.93	-2.86	217.07	5.12	9.05	4.04	9.78	.54	-1.22	10.06		.71	.16ALP	8.16	7.67			
115	191	306	223.53	-2.20	221.33	3.82	8.93	4.26	10.08	2.06	-.12	9.88		.43	.16ALP	8.17	7.68			
115	192	307	225.98	-1.58	224.40	5.00	8.81	4.34	10.37	.95	-1.64	9.70		.17	.15ALP	8.18	7.68			
115	193	308	229.75	-.97	228.78	3.70	8.69	4.55	10.66	2.46	-.53	9.53		-.04	.14ALP	8.19	7.69			
115	194	309	232.37	-.39	231.98	4.88	8.57	4.63		1.37		9.36		-.17	.11ALP	8.20	7.70			
115	195	310	236.31	UNSTABLE AGAINST FISSION																
115	196	311	239.09	UNSTABLE AGAINST FISSION																
115	197	312	243.19	UNSTABLE AGAINST FISSION																
115	198	313	246.14	UNSTABLE AGAINST FISSION																
115	199	314	250.39	UNSTABLE AGAINST FISSION																
115	200	315	253.50	UNSTABLE AGAINST FISSION																
115	201	316	257.92	UNSTABLE AGAINST FISSION																
115	202	317	261.19	UNSTABLE AGAINST FISSION																
115	203	318	265.76	UNSTABLE AGAINST FISSION																
115	204	319	269.18	UNSTABLE AGAINST FISSION																
115	205	320	273.90	UNSTABLE AGAINST FISSION																
115	206	321	277.48	UNSTABLE AGAINST FISSION																
115	207	322	282.34	UNSTABLE AGAINST FISSION																
115	208	323	286.07	UNSTABLE AGAINST FISSION																
115	209	324	291.08	UNSTABLE AGAINST FISSION																
115	210	325	294.96	UNSTABLE AGAINST FISSION																
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116	142	258	204.56	UNSTABLE AGAINST FISSION																
116	143	259	202.94	UNSTABLE AGAINST FISSION																
116	144	260	199.95	UNSTABLE AGAINST FISSION																
116	145	261	198.59	UNSTABLE AGAINST FISSION																
116	146	262	195.87	UNSTABLE AGAINST FISSION																
116	147	263	194.77	UNSTABLE AGAINST FISSION																
116	148	264	192.32	UNSTABLE AGAINST FISSION																
116	149	265	191.47	UNSTABLE AGAINST FISSION																
116	150	266	189.28	UNSTABLE AGAINST FISSION																
116	151	267	188.68	UNSTABLE AGAINST FISSION																
116	152	268	186.74	UNSTABLE AGAINST FISSION																
116	153	269	186.39	-2.76	183.63			-1.18	-3.35		9.91	13.89	.23	-2.76	.24ALP	7.72	7.49			
116	154	270	184.70	-2.74	181.96	9.75		-.95	-3.02		8.23	13.83	.23	-2.74	.24ALP	7.73	7.49			
116	155	271	184.59	-2.72	181.87	8.16	17.91	-.85	-2.68		9.31	13.74	.23	-2.72	.24ALP	7.75	7.50			
116	156	272	183.14	UNSTABLE AGAINST FISSION																
116	157	273	183.26	UNSTABLE AGAINST FISSION																
116	158	274	182.05	UNSTABLE AGAINST FISSION																
116	159	275	182.41	UNSTABLE AGAINST FISSION																
116	160	276	181.44	UNSTABLE AGAINST FISSION																
116	161	277	182.02	UNSTABLE AGAINST FISSION																
116	162	278	181.27	UNSTABLE AGAINST FISSION																
116	163	279	182.08	UNSTABLE AGAINST FISSION																
116	164	280	181.56	UNSTABLE AGAINST FISSION																

Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF MASS	DEF I	NEU	PRO	MASS SHELL DIFF
116	165	281	182.58	UNSTABLE AGAINST FISSION													
116	166	282	182.29	UNSTABLE AGAINST FISSION													
116	167	283	183.52	UNSTABLE AGAINST FISSION													
116	168	284	183.44	UNSTABLE AGAINST FISSION													
116	169	285	184.89	UNSTABLE AGAINST FISSION													
116	170	286	185.02	UNSTABLE AGAINST FISSION													
116	171	287	186.68	UNSTABLE AGAINST FISSION													
116	172	288	187.02	-.26	186.76					-6.85	3.44		-.11	.10ALP	7.95	7.59	
116	173	289	188.88	-.76	188.12	6.71		2.49	4.02	-5.27	4.56		-.03	.14ALP	7.97	7.60	
116	174	290	189.43	-1.28	188.15	8.04	14.76	2.70	4.32	-6.37	2.99		.14	.15ALP	7.98	7.60	
116	175	291	191.48	-1.83	189.65	6.56	14.61	2.80	4.64	-4.81	4.09	9.66	.35	.16ALP	7.99	7.61	
116	176	292	192.23	-2.39	189.84	7.89	14.45	3.01	4.94	-5.90	2.53	9.52	.57	.16ALP	8.00	7.61	
116	177	293	194.48	-2.98	191.50	6.41	14.30	3.10	5.25	-4.34	3.64	9.36	.81	.16ALP	8.01	7.62	
116	178	294	195.43	-3.60	191.83	7.74	14.15	3.32	5.55	-5.45	2.08	9.21	1.07	.17ALP	8.03	7.62	
116	179	295	197.88	-4.23	193.65	6.26	13.99	3.39	5.85	-3.88	3.20	9.06	1.33	.17ALP	8.04	7.63	
116	180	296	199.02	-4.89	194.13	7.58	13.85	3.61	6.15	-4.99	1.64	8.90	1.61	.17ALP	8.05	7.63	
116	181	297	201.65	-5.56	196.09	6.12	13.70	3.69	6.45	-3.44	2.75	8.75	1.90	.17ALP	8.06	7.64	
116	182	298	202.98	-6.26	196.72	7.44	13.56	3.91	6.75	-4.54	1.20	8.59	2.19	.17ALP	8.07	7.64	
116	183	299	205.80	-6.98	198.82	5.97	13.41	3.99	7.05	-2.99	2.31	8.43	2.50	.17ALP	8.08	7.65	
116	184	300	207.32	-7.72	199.60	7.29	13.26	4.20	7.34	-4.09	-.81	8.28	2.82	.17ALP	8.09	7.66	
116	185	301	210.32	-6.90	203.42	4.25	11.54	4.28	7.64	-.97	.30	9.71	2.45	.17ALP	8.11	7.66	
116	186	302	212.02	-6.11	205.91	5.58	9.83	4.50	7.94	-2.08	-1.23	11.12	2.09	.17ALP	8.12	7.67	
116	187	303	215.20	-5.35	209.85	4.13	9.71	4.58	8.24	-.55	-.12	10.94	1.75	.17ALP	8.13	7.67	
116	188	304	217.08	-4.62	212.46	5.46	9.59	4.80	8.55	-1.66	-1.65	10.76	1.42	.17ALP	8.14	7.68	
116	189	305	220.44	-3.91	216.53	4.01	9.46	4.87	8.83	-.13	-.54	10.59	1.11	.16ALP	8.15	7.68	
116	190	306	222.50	-3.23	219.27	5.33	9.34	5.09	9.13	-1.23	-2.06	10.42	.81	.16ALP	8.16	7.69	
116	191	307	226.02	-2.57	223.45	3.90	9.22	5.17	9.42	.28	-.96	10.24	.53	.16ALP	8.17	7.69	
116	192	308	228.26	-1.94	226.32	5.21	9.10	5.38	9.71	-.81	-2.46	10.07	.27	.15ALP	8.19	7.70	
116	193	309	231.95	-1.34	230.61	3.78	8.98	5.46	10.01	.69	-1.37	9.89	.04	.14ALP	8.20	7.71	
116	194	310	234.36	-.76	233.60	5.09	8.86	5.67	10.29	-.40		9.72	-.14	.13ALP	8.21	7.71	
116	195	311	238.22	-.21	238.01	3.66	8.74			1.10		9.55	-.17	.07ALP	8.22	7.72	
116	196	312	240.80	UNSTABLE AGAINST FISSION													
116	197	313	244.82	UNSTABLE AGAINST FISSION													
116	198	314	247.57	UNSTABLE AGAINST FISSION													
116	199	315	251.75	UNSTABLE AGAINST FISSION													
116	200	316	254.65	UNSTABLE AGAINST FISSION													
116	201	317	258.99	UNSTABLE AGAINST FISSION													
116	202	318	262.06	UNSTABLE AGAINST FISSION													
116	203	319	266.55	UNSTABLE AGAINST FISSION													
116	204	320	269.78	UNSTABLE AGAINST FISSION													
116	205	321	274.42	UNSTABLE AGAINST FISSION													
116	206	322	277.80	UNSTABLE AGAINST FISSION													
116	207	323	282.59	UNSTABLE AGAINST FISSION													
116	208	324	286.13	UNSTABLE AGAINST FISSION													
116	209	325	291.07	UNSTABLE AGAINST FISSION													
116	210	326	294.75	UNSTABLE AGAINST FISSION													

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Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF MASS	DEF I	NEU	PRO	MASS SHELL DIFF
117	156	273	192.80	UNSTABLE AGAINST FISSION													
117	157	274	192.68	UNSTABLE AGAINST FISSION													
117	158	275	191.38	UNSTABLE AGAINST FISSION													
117	159	276	191.49	UNSTABLE AGAINST FISSION													
117	160	277	190.43	UNSTABLE AGAINST FISSION													
117	161	278	190.77	UNSTABLE AGAINST FISSION													
117	162	279	189.93	UNSTABLE AGAINST FISSION													
117	163	280	190.50	UNSTABLE AGAINST FISSION													
117	164	281	189.89	UNSTABLE AGAINST FISSION													
117	165	282	190.68	UNSTABLE AGAINST FISSION													
117	166	283	190.29	UNSTABLE AGAINST FISSION													
117	167	284	191.29	UNSTABLE AGAINST FISSION													
117	168	285	191.12	UNSTABLE AGAINST FISSION													
117	169	286	192.34	UNSTABLE AGAINST FISSION													
117	170	287	192.38	UNSTABLE AGAINST FISSION													
117	171	288	193.81	-.20	193.61					-4.86	6.85		-.13	.09ALP	7.95	7.60	
117	172	289	194.06	-.68	193.38	8.29		.67		-5.98	5.26		-.09	.13ALP	7.96	7.61	
117	173	290	195.69	-1.17	194.52	6.94	15.23	.89	3.37	-4.40	6.38		.06	.15ALP	7.97	7.61	
117	174	291	196.15	-1.69	194.46	8.13	15.07	.98	3.68	-5.50	4.80		.24	.15ALP	7.98	7.62	
117	175	292	197.98	-2.24	195.74	6.79	14.92	1.20	4.00	-3.94	5.90	10.00	.45	.16ALP	8.00	7.62	
117	176	293	198.64	-2.80	195.84	7.98	14.76	1.29	4.30	-5.04	4.34	9.85	.68	.16ALP	8.01	7.63	
117	177	294	200.67	-3.39	197.28	6.63	14.61	1.51	4.60	-3.48	5.44	9.70	.92	.16ALP	8.02	7.63	
117	178	295	201.53	-4.00	197.53	7.82	14.46	1.59	4.91	-4.59	3.88	9.54	1.18	.17ALP	8.03	7.64	
117	179	296	203.75	-4.63	199.12	6.49	14.30	1.82	5.21	-3.03	4.99	9.39	1.44	.17ALP	8.04	7.64	
117	180	297	204.81	-5.28	199.53	7.67	14.15	1.90	5.50	-4.13	3.44	9.25	1.72	.17ALP	8.05	7.65	
117	181	298	207.22	-5.96	201.26	6.34	14.01	2.11	5.81	-2.59	4.54	9.08	2.00	.17ALP	8.07	7.65	
117	182	299	208.47	-6.65	201.82	7.52	13.85	2.20	6.10	-3.68	3.00	8.94	2.30	.17ALP	8.08	7.66	
117	183	300	211.07	-7.37	203.70	6.19	13.71	2.41	6.40	-2.14	4.10	8.78	2.61	.17ALP	8.09	7.67	
117	184	301	212.50	-8.11	204.39	7.38	13.57	2.50	6.70	-3.25	.98	8.62	2.92	.17ALP	8.10	7.67	
117	185	302	215.28	-7.29	207.99	4.48	11.85	2.72	7.00	-.14	2.08	10.05	2.56	.17ALP	8.11	7.68	
117	186	303	216.91	-6.51	210.40	5.66	10.14	2.79	7.30	-1.24	.55	11.46	2.20	.17ALP	8.12	7.68	
117	187	304	219.87	-5.74	214.13	4.35	10.00	3.01	7.59	.29	1.66	11.29	1.86	.17ALP	8.14	7.69	
117	188	305	221.67	-5.01	216.66	5.53	9.88	3.10	7.89	-.81	.13	11.12	1.53	.17ALP	8.15	7.69	
117	189	306	224.81	-4.30	220.51	4.22	9.76	3.31	8.18	.71	1.24	10.94	1.22	.16ALP	8.16	7.70	
117	190	307	226.79	-3.62	223.17	5.41	9.63	3.39	8.48	-.39	-.28	10.77	.92	.16ALP	8.17	7.70	
117	191	308	230.10	-2.97	227.13	4.11	9.52	3.61	8.78	1.11	.81	10.59	.64	.16ALP	8.18	7.71	
117	192	309	232.26	-2.34	229.92	5.28	9.39	3.69	9.06	.02	-.69	10.42	.38	.15ALP	8.19	7.72	
117	193	310	235.74	-1.74	234.00	3.99	9.28	3.90	9.36	1.52	.40	10.25	.14	.15ALP	8.20	7.72	
117	194	311	238.07	-1.16	236.91	5.16	9.15	3.98	9.64	.43	-1.10	10.08	-.07	.14ALP	8.21	7.73	

Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
117	195	312	241.72	-.61	241.11	3.87	9.04	4.19		1.93		9.90		-.21	.12ALP	8.23	7.73			
117	196	313	244.22	UNSTABLE AGAINST FISSION																
117	197	314	248.03	UNSTABLE AGAINST FISSION																
117	198	315	250.70	UNSTABLE AGAINST FISSION																
117	199	316	254.67	UNSTABLE AGAINST FISSION																
117	200	317	257.50	UNSTABLE AGAINST FISSION																
117	201	318	261.64	UNSTABLE AGAINST FISSION																
117	202	319	264.63	UNSTABLE AGAINST FISSION																
117	203	320	268.92	UNSTABLE AGAINST FISSION																
117	204	321	272.07	UNSTABLE AGAINST FISSION																
117	205	322	276.51	UNSTABLE AGAINST FISSION																
117	206	323	279.81	UNSTABLE AGAINST FISSION																
117	207	324	284.41	UNSTABLE AGAINST FISSION																
117	208	325	287.87	UNSTABLE AGAINST FISSION																
117	209	326	292.61	UNSTABLE AGAINST FISSION																
117	210	327	296.22	UNSTABLE AGAINST FISSION																

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Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
118	145	263	220.56	UNSTABLE AGAINST FISSION																
118	146	264	217.50	UNSTABLE AGAINST FISSION																
118	147	265	216.05	UNSTABLE AGAINST FISSION																
118	148	266	213.25	UNSTABLE AGAINST FISSION																
118	149	267	212.06	UNSTABLE AGAINST FISSION																
118	150	268	209.52	UNSTABLE AGAINST FISSION																
118	151	269	208.58	UNSTABLE AGAINST FISSION																
118	152	270	206.30	UNSTABLE AGAINST FISSION																
118	153	271	205.61	UNSTABLE AGAINST FISSION																
118	154	272	203.58	UNSTABLE AGAINST FISSION																
118	155	273	203.13	UNSTABLE AGAINST FISSION																
118	156	274	201.35	UNSTABLE AGAINST FISSION																
118	157	275	201.14	UNSTABLE AGAINST FISSION																
118	158	276	199.60	UNSTABLE AGAINST FISSION																
118	159	277	199.62	UNSTABLE AGAINST FISSION																
118	160	278	198.32	UNSTABLE AGAINST FISSION																
118	161	279	198.57	UNSTABLE AGAINST FISSION																
118	162	280	197.50	UNSTABLE AGAINST FISSION																
118	163	281	197.97	UNSTABLE AGAINST FISSION																
118	164	282	197.13	UNSTABLE AGAINST FISSION																
118	165	283	197.83	UNSTABLE AGAINST FISSION																
118	166	284	197.21	UNSTABLE AGAINST FISSION																
118	167	285	198.12	UNSTABLE AGAINST FISSION																
118	168	286	197.73	UNSTABLE AGAINST FISSION																
118	169	287	198.85	UNSTABLE AGAINST FISSION																
118	170	288	198.67	-.20	198.47					-8.27	4.86			-.14	.08ALP	7.94	7.61			
118	171	289	200.01	-.65	199.36	7.18		1.53		-6.68	5.97			-.13	.13ALP	7.96	7.62			
118	172	290	200.04	-1.12	198.92	8.51	15.70	1.75	2.42	-7.78	4.40			-.01	.14ALP	7.97	7.62			
118	173	291	201.58	-1.61	199.97	7.02	15.53	1.84	2.73	-6.20	5.51			.16	.15ALP	7.98	7.63			
118	174	292	201.82	-2.13	199.69	8.35	15.37	2.06	3.03	-7.30	3.95	10.50		.36	.16ALP	7.99	7.63			
118	175	293	203.56	-2.67	200.89	6.87	15.22	2.15	3.34	-5.74	5.05	10.35		.57	.16ALP	8.00	7.64			
118	176	294	204.00	-3.24	200.76	8.19	15.07	2.37	3.66	-6.85	3.48	10.19		.80	.16ALP	8.01	7.64			
118	177	295	205.94	-3.82	202.12	6.72	14.91	2.45	3.96	-5.28	4.59	10.04		1.04	.16ALP	8.03	7.65			
118	178	296	206.58	-4.43	202.15	8.04	14.76	2.67	4.26	-6.39	3.03	9.89		1.29	.17ALP	8.04	7.65			
118	179	297	208.72	-5.06	203.66	6.56	14.60	2.75	4.56	-4.83	4.13	9.73		1.56	.17ALP	8.05	7.66			
118	180	298	209.56	-5.71	203.85	7.88	14.45	2.96	4.86	-5.92	2.59	9.59		1.84	.17ALP	8.06	7.67			
118	181	299	211.88	-6.38	205.50	6.42	14.30	3.05	5.17	-4.38	3.69	9.43		2.12	.17ALP	8.07	7.67			
118	182	300	212.92	-7.07	205.85	7.73	14.14	3.26	5.45	-5.46	2.16	9.29		2.42	.17ALP	8.08	7.68			
118	183	301	215.43	-7.79	207.64	6.27	14.00	3.34	5.76	-3.93	3.25	9.13		2.72	.17ALP	8.10	7.68			
118	184	302	216.65	-8.52	208.13	7.59	13.85	3.56	6.05	-5.02	.14	8.98		3.04	.17ALP	8.11	7.69			
118	185	303	219.35	-7.71	211.64	4.56	12.14	3.64	6.35	-1.92	1.24	10.40		2.67	.17ALP	8.12	7.69			
118	186	304	220.76	-6.92	213.84	5.87	10.43	3.85	6.65	-3.01	-.28	11.82		2.32	.17ALP	8.13	7.70			
118	187	305	223.64	-6.16	217.48	4.43	10.30	3.93	6.94	-1.49	.82	11.64		1.98	.17ALP	8.14	7.70			
118	188	306	225.23	-5.43	219.80	5.74	10.18	4.15	7.25	-2.59	-.70	11.47		1.65	.17ALP	8.15	7.71			
118	189	307	228.28	-4.72	223.56	4.31	10.06	4.23	7.54	-1.07	.39	11.29		1.34	.16ALP	8.16	7.71			
118	190	308	230.06	-4.04	226.02	5.62	9.92	4.44	7.83	-2.16	-1.11	11.13		1.04	.16ALP	8.18	7.72			
118	191	309	233.29	-3.39	229.90	4.19	9.81	4.52	8.13	-.65	-.02	10.95		.76	.16ALP	8.19	7.73			
118	192	310	235.24	-2.76	232.48	5.49	9.68	4.73	8.42	-1.74	-1.52	10.78		.50	.15ALP	8.20	7.73			
118	193	311	238.64	-2.16	236.48	4.07	9.56	4.81	8.71	-.24	-.43	10.61		.25	.15ALP	8.21	7.74			
118	194	312	240.76	-1.58	239.18	5.37	9.44	5.02	9.00	-1.33	-1.93	10.44		.03	.14ALP	8.22	7.74			
118	195	313	244.33	-1.03	243.30	3.95	9.32	5.10	9.29	.17		10.26		-.15	.13ALP	8.23	7.75			
118	196	314	246.63	-.50	246.13	5.25	9.19			-.91		10.11		-.24	.11ALP	8.24	7.75			
118	197	315	250.36	UNSTABLE AGAINST FISSION																
118	198	316	252.83	UNSTABLE AGAINST FISSION																
118	199	317	256.72	UNSTABLE AGAINST FISSION																
118	200	318	259.35	UNSTABLE AGAINST FISSION																
118	201	319	263.41	UNSTABLE AGAINST FISSION																
118	202	320	266.20	UNSTABLE AGAINST FISSION																
118	203	321	270.41	UNSTABLE AGAINST FISSION																
118	204	322	273.36	UNSTABLE AGAINST FISSION																
118	205	323	277.73	UNSTABLE AGAINST FISSION																
118	206	324	280.84	UNSTABLE AGAINST FISSION																
118	207	325	285.36	UNSTABLE AGAINST FISSION																
118	208	326	288.62	UNSTABLE AGAINST FISSION																
118	209	327	293.29	UNSTABLE AGAINST FISSION																
118	210	328	296.70	UNSTABLE AGAINST FISSION																

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Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
119	157	276	211.23	UNSTABLE AGAINST FISSION																
119	158	277	209.60	UNSTABLE AGAINST FISSION																
119	159	278	209.38	UNSTABLE AGAINST FISSION																
119	160	279	207.99	UNSTABLE AGAINST FISSION																
119	161	280	208.00	UNSTABLE AGAINST FISSION																
119	162	281	206.84	UNSTABLE AGAINST FISSION																
119	163	282	207.08	UNSTABLE AGAINST FISSION																
119	164	283	206.14	UNSTABLE AGAINST FISSION																
119	165	284	206.61	UNSTABLE AGAINST FISSION																
119	166	285	205.90	UNSTABLE AGAINST FISSION																
119	167	286	206.58	UNSTABLE AGAINST FISSION																
119	168	287	206.09	UNSTABLE AGAINST FISSION																
119	169	288	206.99	-.25	206.74					-6.29	8.27			-.17	.08ALP	7.94	7.62			
119	170	289	206.71	-.67	206.04	8.77		-.28		-7.40	6.68			-.17	.12ALP	7.95	7.63			
119	171	290	207.82	-1.12	206.70	7.41	16.18	-.05	1.49	-5.82	7.78			-.06	.14ALP	7.96	7.63			
119	172	291	207.76	-1.59	206.17	8.60	16.02	.04	1.79	-6.92	6.21			.10	.15ALP	7.97	7.64			
119	173	292	209.08	-2.08	207.00	7.25	15.85	.25	2.10	-5.34	7.32	10.97		.28	.15ALP	7.99	7.64			
119	174	293	209.23	-2.60	206.63	8.43	15.69	.34	2.41	-6.44	5.75	10.82		.48	.16ALP	8.00	7.65			
119	175	294	210.74	-3.14	207.60	7.10	15.54	.57	2.72	-4.89	6.84	10.66		.70	.16ALP	8.01	7.65			
119	176	295	211.10	-3.70	207.40	8.28	15.37	.65	3.02	-5.98	5.28	10.52		.93	.16ALP	8.02	7.66			
119	177	296	212.82	-4.28	208.54	6.93	15.21	.87	3.32	-4.42	6.39	10.37		1.17	.17ALP	8.03	7.66			
119	178	297	213.37	-4.89	208.48	8.12	15.06	.96	3.63	-5.53	4.82	10.21		1.42	.17ALP	8.04	7.67			
119	179	298	215.28	-5.51	209.77	6.79	14.91	1.18	3.93	-3.97	5.92	10.06		1.69	.17ALP	8.06	7.68			
119	180	299	216.04	-6.16	209.88	7.96	14.75	1.26	4.22	-5.07	4.38	9.92		1.96	.17ALP	8.07	7.68			
119	181	300	218.14	-6.83	211.31	6.64	14.61	1.48	4.53	-3.53	5.47	9.76		2.25	.17ALP	8.08	7.69			
119	182	301	219.09	-7.52	211.57	7.82	14.45	1.56	4.82	-4.62	3.93	9.62		2.55	.17ALP	8.09	7.69			
119	183	302	221.39	-8.23	213.16	6.49	14.30	1.77	5.11	-3.08	5.03	9.47		2.85	.17ALP	8.10	7.70			
119	184	303	222.53	-8.97	213.56	7.66	14.15	1.85	5.41	-4.18	1.92	9.32		3.17	.17ALP	8.11	7.70			
119	185	304	225.01	-8.15	216.86	4.77	12.44	2.07	5.71	-1.07	3.02	10.74		2.80	.17ALP	8.12	7.71			
119	186	305	226.33	-7.36	218.97	5.96	10.73	2.16	6.01	-2.17	1.50	12.15		2.45	.17ALP	8.14	7.71			
119	187	306	228.99	-6.60	222.39	4.65	10.61	2.38	6.31	-.65	2.59	11.98		2.11	.17ALP	8.15	7.72			
119	188	307	230.51	-5.87	224.64	5.82	10.47	2.45	6.60	-1.74	1.08	11.81		1.78	.17ALP	8.16	7.72			
119	189	308	233.35	-5.17	228.18	4.52	10.35	2.67	6.90	-.23	2.16	11.63		1.47	.16ALP	8.17	7.73			
119	190	309	235.04	-4.49	230.55	5.70	10.23	2.75	7.20	-1.33	.65	11.46		1.17	.16ALP	8.18	7.74			
119	191	310	238.06	-3.83	234.23	4.40	10.09	2.96	7.48	.19	1.75	11.30		.89	.16ALP	8.19	7.74			
119	192	311	239.93	-3.21	236.72	5.57	9.98	3.04	7.78	-.91	.24	11.13		.62	.16ALP	8.20	7.75			
119	193	312	243.12	-2.60	240.52	4.28	9.85	3.25	8.06	.60	1.34	10.96		.37	.15ALP	8.22	7.75			
119	194	313	245.16	-2.03	243.13	5.45	9.73	3.34	8.36	-.50	-.17	10.79		.15	.15ALP	8.23	7.76			
119	195	314	248.52	-1.48	247.04	4.16	9.61	3.55	8.65	.99	.92	10.61		-.05	.14ALP	8.24	7.76			
119	196	315	250.74	-.95	249.79	5.33	9.49	3.62		-.09		10.46		-.21	.13ALP	8.25	7.77			
119	197	316	254.26	-.45	253.81	4.05	9.38			1.40		10.28		-.27	.10ALP	8.26	7.77			
119	198	317	256.65	UNSTABLE AGAINST FISSION																
119	199	318	260.34	UNSTABLE AGAINST FISSION																
119	200	319	262.89	UNSTABLE AGAINST FISSION																
119	201	320	266.74	UNSTABLE AGAINST FISSION																
119	202	321	269.46	UNSTABLE AGAINST FISSION																
119	203	322	273.47	UNSTABLE AGAINST FISSION																
119	204	323	276.34	UNSTABLE AGAINST FISSION																
119	205	324	280.51	UNSTABLE AGAINST FISSION																
119	206	325	283.54	UNSTABLE AGAINST FISSION																
119	207	326	287.86	UNSTABLE AGAINST FISSION																
119	208	327	291.05	UNSTABLE AGAINST FISSION																
119	209	328	295.52	UNSTABLE AGAINST FISSION																
119	210	329	298.86	UNSTABLE AGAINST FISSION																

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120	150	270	231.12	UNSTABLE AGAINST FISSION																
120	151	271	229.83	UNSTABLE AGAINST FISSION																
120	152	272	227.22	UNSTABLE AGAINST FISSION																
120	153	273	226.18	UNSTABLE AGAINST FISSION																
120	154	274	223.82	UNSTABLE AGAINST FISSION																
120	155	275	223.03	UNSTABLE AGAINST FISSION																
120	156	276	220.92	UNSTABLE AGAINST FISSION																
120	157	277	220.37	UNSTABLE AGAINST FISSION																
120	158	278	218.50	UNSTABLE AGAINST FISSION																
120	159	279	218.19	UNSTABLE AGAINST FISSION																
120	160	280	216.56	UNSTABLE AGAINST FISSION																
120	161	281	216.48	UNSTABLE AGAINST FISSION																
120	162	282	215.08	UNSTABLE AGAINST FISSION																
120	163	283	215.23	UNSTABLE AGAINST FISSION																
120	164	284	214.07	UNSTABLE AGAINST FISSION																
120	165	285	214.44	UNSTABLE AGAINST FISSION																
120	166	286	213.50	UNSTABLE AGAINST FISSION																
120	167	287	214.09	UNSTABLE AGAINST FISSION																
120	168	288	213.38	-.35	213.03					-9.68	6.29			-.22	.09ALP	7.93	7.63			
120	169	289	214.19	-.75	213.44	7.66		.59		-8.10	7.40			-.19	.12ALP	7.94	7.64			
120	170	290	213.69	-1.17	212.52	8.99	16.65	.81	.53	-9.20	5.82			-.09	.14ALP	7.96	7.64			
120	171	291	214.71	-1.62	213.09	7.49	16.49	.90	.85	-7.62	6.92			.06	.15ALP	7.97	7.65			
120	172	292	214.42	-2.08	212.34	8.83	16.32	1.13	1.16	-8.72	5.35	11.44		.22	.15ALP	7.98	7.65			
120	173	293	215.65	-2.58	213.07	7.34	16.16	1.21	1.47	-7.15	6.44	11.28		.41	.16ALP	7.99	7.66			
120	174	294	215.58	-3.09	212.49	8.66	15.99	1.43	1.77	-8.24	4.88	11.15		.62	.16ALP	8.00	7.66			
120	175	295	217.01	-3.63	213.38	7.18	15.84	1.51	2.08	-6.68	5.98	10.99		.83	.16ALP	8.02	7.67			
120	176	296	217.14	-4.18	212.96	8.50	15.67	1.73	2.38	-7.77	4.42	10.85		1.06	.16ALP	8.03	7.67			
120	177	297	218.77	-4.76	214.01	7.02	15.52	1.82	2.69	-6.21	5.52	10.70		1.31	.17ALP	8.04	7.68			
120	178	298	219.11	-5.37	213.74	8.34	15.36	2.03	2.99	-7.31	3.97	10.55		1.56	.17ALP	8.05	7.69			
120	179	299	220.94	-5.99	214.95	6.87	15.20	2.11	3.29	-5.76	5.07	10.41		1.83	.17ALP	8.06	7.69			
120	180	300	221.48	-6.64	214.84	8.18	15.05	2.32	3.59	-6.85	3.53	10.26		2.10	.17ALP	8.07	7.70			

Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
120	181	301	223.50	-7.30	216.20	6.71	14.89	2.41	3.88	-5.30	4.63	10.12		2.39	.17ALP	8.09	7.70			
120	182	302	224.23	-7.99	216.24	8.03	14.74	2.62	4.18	-6.39	3.09	9.97		2.68	.17ALP	8.10	7.71			
120	183	303	226.44	-8.70	217.74	6.57	14.59	2.70	4.48	-4.86	4.18	9.81		2.99	.17ALP	8.11	7.71			
120	184	304	227.36	-9.43	217.93	7.88	14.45	2.92	4.78	-5.95	1.08	9.66		3.30	.17ALP	8.12	7.72			
120	185	305	229.76	-8.62	221.14	4.86	12.74	3.00	5.08	-2.86	2.17	11.08		2.94	.17ALP	8.13	7.72			
120	186	306	230.88	-7.83	223.05	6.17	11.03	3.21	5.36	-3.94	.66	12.50		2.59	.17ALP	8.14	7.73			
120	187	307	233.45	-7.07	226.38	4.74	10.91	3.30	5.67	-2.43	1.75	12.32		2.25	.17ALP	8.15	7.73			
120	188	308	234.76	-6.34	228.42	6.03	10.77	3.50	5.96	-3.51	.24	12.16		1.93	.17ALP	8.17	7.74			
120	189	309	237.51	-5.64	231.87	4.61	10.65	3.60	6.27	-2.01	1.32	11.97		1.61	.16ALP	8.18	7.74			
120	190	310	239.00	-4.96	234.04	5.91	10.52	3.80	6.55	-3.09	-.18	11.81		1.32	.16ALP	8.19	7.75			
120	191	311	241.93	-4.30	237.63	4.49	10.39	3.89	6.85	-1.58	.91	11.64		1.03	.16ALP	8.20	7.76			
120	192	312	243.60	-3.68	239.92	5.78	10.26	4.09	7.14	-2.67	-.59	11.48		.76	.16ALP	8.21	7.76			
120	193	313	246.71	-3.07	243.64	4.36	10.13	4.17	7.42	-1.16	.51	11.32		.51	.15ALP	8.22	7.77			
120	194	314	248.55	-2.50	246.05	5.65	10.01	4.37	7.71	-2.25	-.99	11.15		.28	.15ALP	8.23	7.77			
120	195	315	251.83	-1.95	249.88	4.24	9.89	4.45	8.00	-.75	.09	10.97		.07	.14ALP	8.24	7.78			
120	196	316	253.84	-1.42	252.42	5.53	9.77	4.66	8.28	-1.83	-1.39	10.81		-.12	.14ALP	8.25	7.78			
120	197	317	257.29	-.92	256.37	4.12	9.65	4.73		-.34		10.64		-.25	.12ALP	8.27	7.79			
120	198	318	259.47	-.45	259.02	5.41	9.54			-1.43		10.47		-.29	.09ALP	8.28	7.79			
120	199	319	263.08	UNSTABLE AGAINST FISSION																
120	200	320	265.43	UNSTABLE AGAINST FISSION																
120	201	321	269.21	UNSTABLE AGAINST FISSION																
120	202	322	271.72	UNSTABLE AGAINST FISSION																
120	203	323	275.66	UNSTABLE AGAINST FISSION																
120	204	324	278.33	UNSTABLE AGAINST FISSION																
120	205	325	282.42	UNSTABLE AGAINST FISSION																
120	206	326	285.26	UNSTABLE AGAINST FISSION																
120	207	327	289.51	UNSTABLE AGAINST FISSION																
120	208	328	292.50	UNSTABLE AGAINST FISSION																
120	209	329	296.89	UNSTABLE AGAINST FISSION																
120	210	330	300.04	UNSTABLE AGAINST FISSION																

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Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
121	160	281	226.90	UNSTABLE AGAINST FISSION																
121	161	282	226.58	UNSTABLE AGAINST FISSION																
121	162	283	225.10	UNSTABLE AGAINST FISSION																
121	163	284	225.01	UNSTABLE AGAINST FISSION																
121	164	285	223.75	UNSTABLE AGAINST FISSION																
121	165	286	223.89	UNSTABLE AGAINST FISSION																
121	166	287	222.86	-.16	222.70					-9.30				-.15	.05ALP	7.92	7.64			
121	167	288	223.22	-.51	222.71	8.06				-7.71	9.68			-.25	.11ALP	7.93	7.64			
121	168	289	222.42	-.88	221.54	9.25	17.31	-1.22		-8.80	8.10			-.21	.13ALP	7.94	7.65			
121	169	290	223.00	-1.28	221.72	7.89	17.14	-1.00	-.40	-7.22	9.20			-.11	.14ALP	7.95	7.65			
121	170	291	222.41	-1.70	220.71	9.08	16.97	-.91	-.09	-8.33	7.62			.03	.15ALP	7.96	7.66			
121	171	292	223.20	-2.14	221.06	7.72	16.80	-.68	.22	-6.75	8.72	11.90		.19	.15ALP	7.98	7.66			
121	172	293	222.83	-2.61	220.22	8.91	16.63	-.60	.53	-7.85	7.15	11.75		.36	.15ALP	7.99	7.67			
121	173	294	223.83	-3.10	220.73	7.56	16.47	-.37	.84	-6.28	8.24	11.60		.55	.16ALP	8.00	7.67			
121	174	295	223.67	-3.61	220.06	8.74	16.30	-.29	1.15	-7.38	6.68	11.46		.76	.16ALP	8.01	7.68			
121	175	296	224.87	-4.14	220.73	7.40	16.15	-.06	1.46	-5.82	7.77	11.31		.98	.16ALP	8.02	7.69			
121	176	297	224.92	-4.70	220.22	8.58	15.98	.02	1.76	-6.92	6.21	11.17		1.21	.16ALP	8.03	7.69			
121	177	298	226.33	-5.27	221.06	7.24	15.82	.24	2.05	-5.35	7.32	11.03		1.46	.16ALP	8.05	7.70			
121	178	299	226.58	-5.87	220.71	8.42	15.66	.33	2.36	-6.44	5.76	10.88		1.71	.17ALP	8.06	7.70			
121	179	300	228.19	-6.50	221.69	7.08	15.51	.54	2.66	-4.90	6.85	10.73		1.97	.17ALP	8.07	7.71			
121	180	301	228.64	-7.14	221.50	8.26	15.35	.63	2.96	-5.99	5.31	10.59		2.25	.17ALP	8.08	7.71			
121	181	302	230.44	-7.80	222.64	6.93	15.19	.84	3.25	-4.45	6.40	10.44		2.53	.17ALP	8.09	7.72			
121	182	303	231.09	-8.49	222.60	8.10	15.04	.92	3.55	-5.54	4.86	10.30		2.83	.17ALP	8.10	7.72			
121	183	304	233.08	-9.20	223.88	6.78	14.90	1.14	3.85	-4.01	5.95	10.14		3.13	.17ALP	8.11	7.73			
121	184	305	233.92	-9.92	224.00	7.96	14.74	1.23	4.14	-5.09	2.86	10.00		3.45	.17ALP	8.13	7.73			
121	185	306	236.10	-9.11	226.99	5.08	13.03	1.44	4.44	-2.01	3.95	11.41		3.09	.17ALP	8.14	7.74			
121	186	307	237.13	-8.33	228.80	6.26	11.34	1.53	4.75	-3.11	2.42	12.81		2.74	.17ALP	8.15	7.74			
121	187	308	239.50	-7.57	231.93	4.94	11.20	1.74	5.04	-1.58	3.52	12.65		2.40	.17ALP	8.16	7.75			
121	188	309	240.71	-6.84	233.87	6.13	11.08	1.83	5.34	-2.68	1.99	12.48		2.07	.17ALP	8.17	7.75			
121	189	310	243.26	-6.13	237.13	4.82	10.94	2.04	5.63	-1.16	3.09	12.32		1.76	.16ALP	8.18	7.76			
121	190	311	244.66	-5.45	239.21	5.99	10.81	2.12	5.92	-2.25	1.58	12.15		1.47	.16ALP	8.19	7.77			
121	191	312	247.39	-4.80	242.59	4.69	10.68	2.33	6.21	-.74	2.67	11.98		1.18	.16ALP	8.21	7.77			
121	192	313	248.97	-4.17	244.80	5.86	10.55	2.41	6.50	-1.83	1.17	11.82		.91	.16ALP	8.22	7.78			
121	193	314	251.87	-3.57	248.30	4.57	10.43	2.62	6.79	-.33	2.25	11.65		.66	.15ALP	8.23	7.78			
121	194	315	253.63	-3.00	250.63	5.73	10.31	2.70	7.08	-1.42	.75	11.48		.42	.15ALP	8.24	7.79			
121	195	316	256.70	-2.45	254.25	4.45	10.19	2.91	7.37	.07	1.84	11.31		.20	.15ALP	8.25	7.79			
121	196	317	258.63	-1.92	256.71	5.61	10.06	2.99	7.65	-1.01	.35	11.15		0.00	.14ALP	8.26	7.80			
121	197	318	261.87	-1.42	260.45	4.33	9.95	3.20	7.94	.47	1.43	10.98		-.16	.13ALP	8.27	7.80			
121	198	319	263.98	-.94	263.04	5.49	9.82	3.28		-.60		10.83		-.28	.12ALP	8.28	7.81			
121	199	320	267.38	-.49	266.89	4.22	9.71			.87		10.65		-.32	.09ALP	8.29	7.81			
121	200	321	269.66	UNSTABLE AGAINST FISSION																
121	201	322	273.23	UNSTABLE AGAINST FISSION																
121	202	323	275.67	UNSTABLE AGAINST FISSION																
121	203	324	279.40	UNSTABLE AGAINST FISSION																
121	204	325	282.00	UNSTABLE AGAINST FISSION																
121	205	326	285.89	UNSTABLE AGAINST FISSION																
121	206	327	288.65	UNSTABLE AGAINST FISSION																
121	207	328	292.70	UNSTABLE AGAINST FISSION																
121	208	329	295.61	UNSTABLE AGAINST FISSION																
121	209	330	299.81	UNSTABLE AGAINST FISSION																
121	210	331	302.89	UNSTABLE AGAINST FISSION																

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122 151 273 252.41 UNSTABLE AGAINST FISSION

Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS SHELL DIFF
122	152	274	249.46	UNSTABLE AGAINST FISSION														
122	153	275	248.08	UNSTABLE AGAINST FISSION														
122	154	276	245.39	UNSTABLE AGAINST FISSION														
122	155	277	244.26	UNSTABLE AGAINST FISSION														
122	156	278	241.82	UNSTABLE AGAINST FISSION														
122	157	279	240.94	UNSTABLE AGAINST FISSION														
122	158	280	238.74	UNSTABLE AGAINST FISSION														
122	159	281	238.10	UNSTABLE AGAINST FISSION														
122	160	282	236.14	UNSTABLE AGAINST FISSION														
122	161	283	235.73	UNSTABLE AGAINST FISSION														
122	162	284	234.02	UNSTABLE AGAINST FISSION														
122	163	285	233.84	UNSTABLE AGAINST FISSION														
122	164	286	232.35	UNSTABLE AGAINST FISSION														
122	165	287	232.40	-.40	232.00					-10.01	9.30			-.27	.09ALP	7.91	7.65	
122	166	288	231.14	-.72	230.42	9.65		-.43		-11.11	7.71			-.27	.12ALP	7.92	7.65	
122	167	289	231.41	-1.07	230.34	8.15	17.80	-.34		-9.52	8.80			-.21	.13ALP	7.93	7.66	
122	168	290	230.38	-1.44	228.94	9.48	17.62	-.12	-1.34	-10.62	7.22			-.11	.14ALP	7.95	7.66	
122	169	291	230.87	-1.83	229.04	7.98	17.45	-.03	-1.03	-9.03	8.33			.02	.15ALP	7.96	7.67	
122	170	292	230.06	-2.25	227.81	9.30	17.28	.19	-.72	-10.13	6.75	12.36		.17	.15ALP	7.97	7.67	
122	171	293	230.76	-2.69	228.07	7.81	17.11	.28	-.40	-8.55	7.85	12.21		.33	.15ALP	7.98	7.68	
122	172	294	230.17	-3.15	227.02	9.13	16.93	.49	-.10	-9.64	6.29	12.08		.51	.16ALP	7.99	7.68	
122	173	295	231.08	-3.64	227.44	7.65	16.77	.58	.21	-8.07	7.38	11.93		.71	.16ALP	8.01	7.69	
122	174	296	230.70	-4.15	226.55	8.96	16.61	.80	.52	-9.17	5.82	11.79		.92	.16ALP	8.02	7.70	
122	175	297	231.82	-4.68	227.14	7.48	16.44	.88	.82	-7.60	6.92	11.64		1.14	.16ALP	8.03	7.70	
122	176	298	231.64	-5.23	226.41	8.80	16.28	1.11	1.13	-8.70	5.36	11.50		1.37	.16ALP	8.04	7.71	
122	177	299	232.97	-5.81	227.16	7.32	16.12	1.18	1.43	-7.14	6.45	11.35		1.61	.16ALP	8.05	7.71	
122	178	300	233.00	-6.41	226.59	8.63	15.96	1.40	1.73	-8.23	4.90	11.21		1.87	.17ALP	8.06	7.72	
122	179	301	234.52	-7.03	227.49	7.17	15.81	1.49	2.03	-6.68	5.99	11.06		2.13	.17ALP	8.08	7.72	
122	180	302	234.75	-7.67	227.08	8.48	15.65	1.70	2.34	-7.78	4.45	10.91		2.41	.17ALP	8.09	7.73	
122	181	303	236.47	-8.33	228.14	7.02	15.50	1.78	2.63	-6.23	5.54	10.77		2.69	.17ALP	8.10	7.73	
122	182	304	236.90	-9.01	227.89	8.32	15.34	2.00	2.92	-7.32	4.01	10.63		2.99	.17ALP	8.11	7.74	
122	183	305	238.81	-9.72	229.09	6.87	15.19	2.08	3.22	-5.78	5.09	10.47		3.29	.17ALP	8.12	7.74	
122	184	306	239.44	-10.44	229.00	8.17	15.03	2.29	3.51	-6.86	2.01	10.34		3.60	.17ALP	8.13	7.75	
122	185	307	241.54	-9.63	231.91	5.16	13.33	2.37	3.81	-3.78	3.10	11.75		3.24	.17ALP	8.14	7.75	
122	186	308	242.36	-8.84	233.52	6.46	11.62	2.58	4.10	-4.86	1.59	13.16		2.89	.17ALP	8.16	7.76	
122	187	309	244.64	-8.09	236.55	5.03	11.50	2.66	4.41	-3.35	2.67	12.98		2.56	.17ALP	8.17	7.76	
122	188	310	245.65	-7.36	238.29	6.33	11.37	2.87	4.70	-4.43	1.16	12.82		2.23	.17ALP	8.18	7.77	
122	189	311	248.11	-6.65	241.46	4.90	11.24	2.96	5.00	-2.92	2.25	12.65		1.92	.16ALP	8.19	7.78	
122	190	312	249.30	-5.97	243.33	6.20	11.11	3.17	5.29	-4.01	.74	12.49		1.63	.16ALP	8.20	7.78	
122	191	313	251.95	-5.32	246.63	4.77	10.97	3.25	5.58	-2.50	1.83	12.33		1.34	.16ALP	8.21	7.79	
122	192	314	253.32	-4.69	248.63	6.07	10.85	3.46	5.87	-3.58	.33	12.16		1.07	.16ALP	8.22	7.79	
122	193	315	256.14	-4.09	252.05	4.65	10.72	3.54	6.16	-2.08	1.42	11.99		.82	.16ALP	8.23	7.80	
122	194	316	257.70	-3.52	254.18	5.94	10.59	3.74	6.44	-3.16	-.07	11.83		.57	.15ALP	8.24	7.80	
122	195	317	260.69	-2.97	257.72	4.53	10.47	3.82	6.74	-1.67	1.01	11.66		.35	.15ALP	8.26	7.81	
122	196	318	262.42	-2.44	259.98	5.81	10.34	4.02	7.01	-2.74	-.47	11.51		.15	.15ALP	8.27	7.81	
122	197	319	265.58	-1.94	263.64	4.41	10.22	4.10	7.30	-1.26	.61	11.34		-.04	.14ALP	8.28	7.82	
122	198	320	267.48	-1.47	266.01	5.70	10.11	4.31	7.59	-2.35	-.88	11.17		-.19	.13ALP	8.29	7.82	
122	199	321	270.81	-1.01	269.80	4.29	9.98	4.38		-.86		11.01		-.31	.12ALP	8.30	7.83	
122	200	322	272.88	-.59	272.29	5.58	9.87			-1.94		10.84		-.35	.10ALP	8.31	7.83	
122	201	323	276.38	-.18	276.20	4.17	9.74			-.45				-.18	.01ALP	8.32	7.84	
122	202	324	278.62	UNSTABLE AGAINST FISSION														
122	203	325	282.27	UNSTABLE AGAINST FISSION														
122	204	326	284.67	UNSTABLE AGAINST FISSION														
122	205	327	288.49	UNSTABLE AGAINST FISSION														
122	206	328	291.05	UNSTABLE AGAINST FISSION														
122	207	329	295.02	UNSTABLE AGAINST FISSION														
122	208	330	297.75	UNSTABLE AGAINST FISSION														
122	209	331	301.87	UNSTABLE AGAINST FISSION														
122	210	332	304.75	UNSTABLE AGAINST FISSION														

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Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS SHELL DIFF
123	163	286	244.28	-.42	243.86	8.73				-9.62				-.30	.09ALP	7.89	7.65	
123	164	287	242.70	-.69	242.01	9.92	18.65			-10.72	10.01			-.32	.11ALP	7.91	7.66	
123	165	288	242.52	-.99	241.53	8.55	18.47	-2.24		-9.13	11.11			-.28	.12ALP	7.92	7.66	
123	166	289	241.17	-1.31	239.86	9.74	18.29	-2.15	-2.58	-10.23	9.52			-.20	.13ALP	7.93	7.67	
123	167	290	241.21	-1.65	239.56	8.38	18.11	-1.92	-2.27	-8.64	10.62			-.10	.14ALP	7.94	7.67	
123	168	291	240.09	-2.02	238.07	9.56	17.94	-1.84	-1.96	-9.73	9.03	12.94		.02	.15ALP	7.95	7.68	
123	169	292	240.35	-2.41	237.94	8.20	17.76	-1.61	-1.64	-8.15	10.13	12.80		.16	.15ALP	7.96	7.68	
123	170	293	239.45	-2.83	236.62	9.38	17.59	-1.52	-1.33	-9.25	8.55	12.66		.32	.15ALP	7.98	7.69	
123	171	294	239.92	-3.27	236.65	8.04	17.43	-1.29	-1.01	-7.69	9.64	12.51		.49	.16ALP	7.99	7.70	
123	172	295	239.24	-3.73	235.51	9.22	17.25	-1.21	-.71	-8.78	8.07	12.37		.68	.16ALP	8.00	7.70	
123	173	296	239.93	-4.21	235.72	7.87	17.08	-.99	-.41	-7.20	9.17	12.24		.87	.16ALP	8.01	7.71	
123	174	297	239.46	-4.72	234.74	9.04	16.92	-.90	-.10	-8.30	7.60	12.09		1.08	.16ALP	8.02	7.71	
123	175	298	240.35	-5.25	235.10	7.71	16.76	-.68	.21	-6.75	8.69	11.94		1.31	.16ALP	8.04	7.72	
123	176	299	240.09	-5.80	234.29	8.88	16.59	-.59	.51	-7.84	7.14	11.80		1.54	.16ALP	8.05	7.72	
123	177	300	241.19	-6.37	234.82	7.55	16.43	-.37	.81	-6.28	8.23	11.66		1.78	.17ALP	8.06	7.73	
123	178	301	241.14	-6.97	234.17	8.72	16.27	-.29	1.11	-7.37	6.68	11.52		2.04	.17ALP	8.07	7.73	
123	179	302	242.44	-7.58	234.86	7.39	16.10	-.08	1.41	-5.82	7.77	11.38		2.30	.17ALP	8.08	7.74	
123	180	303	242.59	-8.22	234.37	8.56	15.95	.01	1.71	-6.91	6.23	11.24		2.57	.17ALP	8.09	7.74	
123	181	304	244.09	-8.88	235.21	7.23	15.79	.22	2.00	-5.37	7.32	11.10		2.86	.17ALP	8.10	7.75	
123	182	305	244.43	-9.56	234.87	8.41	15.64	.31	2.30	-6.47	5.78	10.95		3.15	.17ALP	8.12	7.75	
123	183	306	246.12	-10.26	235.86	7.09	15.49	.53	2.60	-4.93	6.86	10.80		3.46	.17ALP	8.13	7.76	
123	184	307	246.67	-10.98	235.69	8.25	15.33	.60	2.88	-6.01	3.78	10.67		3.77	.17ALP	8.14	7.76	
123	185	308	248.55	-10.17	238.38	5.38	13.63	.82	3.19	-2.93	4.87	12.07		3.41	.17ALP	8.15	7.77	
123	186	309	249.29	-9.39	239.90	6.55	11.93	.90	3.48	-4.02	3.35	13.48		3.06	.17ALP	8.16	7.77	
123	187	310	251.35	-8.63	242.72	5.25	11.80	1.12	3.79	-2.51	4.43	13.31		2.73	.17ALP	8.17	7.78	
123	188	311	252.28	-7.90	244.38	6.42	11.66	1.20	4.08	-3.59	2.92	13.15		2.40	.17ALP	8.18	7.79	

Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS SHELL DIFF
123	189	312	254.53	-7.19	247.34	5.12	11.53	1.41	4.37	-2.08	4.01	12.99		2.09	.16ALP	8.20	7.79	
123	190	313	255.64	-6.52	249.12	6.29	11.40	1.50	4.67	-3.17	2.49	12.82		1.80	.16ALP	8.21	7.80	
123	191	314	258.08	-5.86	252.22	4.98	11.26	1.70	4.95	-1.66	3.59	12.67		1.51	.16ALP	8.22	7.80	
123	192	315	259.37	-5.24	254.13	6.15	11.14	1.79	5.24	-2.75	2.08	12.49		1.24	.16ALP	8.23	7.81	
123	193	316	261.98	-4.64	257.34	4.86	11.01	2.00	5.53	-1.25	3.16	12.33		.98	.16ALP	8.24	7.81	
123	194	317	263.45	-4.06	259.39	6.03	10.88	2.08	5.82	-2.33	1.67	12.17		.74	.15ALP	8.25	7.82	
123	195	318	266.24	-3.51	262.73	4.73	10.75	2.28	6.10	-.84	2.75	12.01		.51	.15ALP	8.26	7.82	
123	196	319	267.89	-2.99	264.90	5.89	10.63	2.36	6.39	-1.92	1.26	11.84		.30	.15ALP	8.27	7.83	
123	197	320	270.84	-2.49	268.35	4.62	10.52	2.57	6.68	-.44	2.33	11.67		.11	.14ALP	8.28	7.83	
123	198	321	272.67	-2.01	270.66	5.77	10.38	2.65	6.95	-1.51	.86	11.52		-.06	.14ALP	8.30	7.84	
123	199	322	275.79	-1.56	274.23	4.50	10.27	2.85	7.24	-.04	1.93	11.35		-.21	.13ALP	8.31	7.84	
123	200	323	277.78	-1.13	276.65	5.65	10.15	2.94		-1.11	.46	11.19		-.32	.12ALP	8.32	7.85	
123	201	324	281.07	-.73	280.34	4.38	10.03	3.14		.35		11.02		-.38	.10ALP	8.33	7.85	
123	202	325	283.24	-.35	282.89	5.53	9.91			-.71				-.31	.06ALP	8.34	7.86	
123	203	326	286.69	UNSTABLE AGAINST FISSION														
123	204	327	289.02	UNSTABLE AGAINST FISSION														
123	205	328	292.63	UNSTABLE AGAINST FISSION														
123	206	329	295.12	UNSTABLE AGAINST FISSION														
123	207	330	298.89	UNSTABLE AGAINST FISSICN														
123	208	331	301.54	UNSTABLE AGAINST FISSION														
123	209	332	305.46	UNSTABLE AGAINST FISSION														
123	210	333	308.27	UNSTABLE AGAINST FISSION														

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Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS SHELL DIFF
124	159	283	259.33	-.21	259.12					-12.45				-.21	.03ALP	7.85	7.65	
124	160	284	257.05	-.38	256.67	10.52				-13.55				-.31	.08ALP	7.86	7.65	
124	161	285	256.31	-.57	255.74	9.01	19.52			-11.94	11.22			-.35	.10ALP	7.88	7.66	
124	162	286	254.27	-.79	253.48	10.34	19.33	-1.67		-13.03	9.62			-.35	.11ALP	7.89	7.66	
124	163	287	253.77	-1.04	252.73	8.82	19.15	-1.58		-11.43	10.72			-.32	.12ALP	7.90	7.67	
124	164	288	251.97	-1.31	250.66	10.14	18.96	-1.36		-12.53	9.13			-.26	.13ALP	7.91	7.67	
124	165	289	251.69	-1.60	250.09	8.64	18.79	-1.27	-3.51	-10.93	10.23			-.18	.14ALP	7.92	7.68	
124	166	290	250.12	-1.92	248.20	9.96	18.60	-1.05	-3.20	-12.02	8.64			-.08	.14ALP	7.94	7.68	
124	167	291	250.07	-2.26	247.81	8.46	18.42	-.96	-2.89	-10.43	9.74	13.39		.04	.15ALP	7.95	7.69	
124	168	292	248.72	-2.63	246.09	9.78	18.25	-.73	-2.57	-11.53	8.15	13.24		.18	.15ALP	7.96	7.70	
124	169	293	248.89	-3.02	245.87	8.29	18.08	-.65	-2.25	-9.96	9.25	13.10		.32	.15ALP	7.97	7.70	
124	170	294	247.77	-3.43	244.34	9.60	17.90	-.43	-1.95	-11.04	7.68	12.97		.49	.16ALP	7.98	7.71	
124	171	295	248.15	-3.87	244.28	8.12	17.74	-.34	-1.63	-9.48	8.77	12.82		.66	.16ALP	7.99	7.71	
124	172	296	247.25	-4.33	242.92	9.43	17.56	-.12	-1.33	-10.56	7.20	12.69		.85	.16ALP	8.01	7.72	
124	173	297	247.85	-4.81	243.04	7.95	17.39	-.04	-1.02	-8.99	8.30	12.54		1.05	.16ALP	8.02	7.72	
124	174	298	247.16	-5.31	241.85	9.26	17.22	.18	-.72	-10.08	6.74	12.41		1.26	.16ALP	8.03	7.73	
124	175	299	247.97	-5.84	242.13	7.79	17.05	.26	-.42	-8.52	7.83	12.27		1.48	.16ALP	8.04	7.73	
124	176	300	247.49	-6.39	241.10	9.10	16.89	.48	-.11	-9.61	6.28	12.13		1.72	.16ALP	8.05	7.74	
124	177	301	248.50	-6.96	241.54	7.63	16.73	.57	.19	-8.06	7.37	11.98		1.96	.17ALP	8.06	7.74	
124	178	302	248.23	-7.55	240.68	8.93	16.57	.78	.49	-9.14	5.82	11.85		2.21	.17ALP	8.08	7.75	
124	179	303	249.44	-8.16	241.28	7.48	16.41	.87	.79	-7.60	6.91	11.70		2.48	.17ALP	8.09	7.75	
124	180	304	249.38	-8.80	240.58	8.77	16.25	1.08	1.09	-8.68	5.37	11.56		2.75	.17ALP	8.10	7.76	
124	181	305	250.79	-9.45	241.34	7.32	16.08	1.16	1.38	-7.14	6.47	11.42		3.04	.17ALP	8.11	7.76	
124	182	306	250.93	-10.13	240.80	8.61	15.92	1.37	1.67	-8.22	4.94	11.29		3.33	.17ALP	8.12	7.77	
124	183	307	252.53	-10.83	241.70	7.17	15.78	1.45	1.97	-6.69	6.01	11.13		3.63	.17ALP	8.13	7.77	
124	184	308	252.86	-11.55	241.31	8.46	15.63	1.67	2.27	-7.77	2.93	10.99		3.94	.17ALP	8.15	7.78	
124	185	309	254.66	-10.74	243.92	5.46	13.92	1.75	2.57	-4.70	4.02	12.40		3.58	.17ALP	8.16	7.78	
124	186	310	255.19	-9.96	245.23	6.76	12.23	1.95	2.86	-5.78	2.51	13.81		3.24	.17ALP	8.17	7.79	
124	187	311	257.17	-9.20	247.97	5.33	12.09	2.04	3.16	-4.27	3.59	13.64		2.90	.17ALP	8.18	7.80	
124	188	312	257.89	-8.47	249.42	6.62	11.95	2.25	3.45	-5.34	2.08	13.48		2.58	.17ALP	8.19	7.80	
124	189	313	260.06	-7.76	252.30	5.20	11.82	2.33	3.74	-3.83	3.17	13.32		2.27	.16ALP	8.20	7.81	
124	190	314	260.96	-7.09	253.87	6.49	11.69	2.54	4.04	-4.92	1.66	13.15		1.97	.16ALP	8.21	7.81	
124	191	315	263.31	-6.43	256.88	5.07	11.56	2.62	4.33	-3.41	2.75	12.99		1.69	.16ALP	8.22	7.82	
124	192	316	264.40	-5.81	258.59	6.36	11.43	2.83	4.62	-4.49	1.25	12.83		1.42	.16ALP	8.24	7.82	
124	193	317	266.93	-5.21	261.72	4.94	11.30	2.91	4.91	-2.99	2.33	12.67		1.16	.16ALP	8.25	7.83	
124	194	318	268.20	-4.63	263.57	6.23	11.17	3.11	5.19	-4.06	.85	12.52		.92	.16ALP	8.26	7.83	
124	195	319	270.90	-4.08	266.82	4.82	11.04	3.20	5.48	-2.58	1.92	12.35		.69	.15ALP	8.27	7.84	
124	196	320	272.35	-3.56	268.79	6.10	10.92	3.40	5.76	-3.65	.43	12.19		.47	.15ALP	8.28	7.84	
124	197	321	275.23	-3.06	272.17	4.69	10.79	3.47	6.05	-2.17	1.51	12.02		.27	.15ALP	8.29	7.85	
124	198	322	276.85	-2.58	274.27	5.97	10.67	3.67	6.33	-3.24	.04	11.87		.09	.14ALP	8.30	7.85	
124	199	323	279.89	-2.13	277.76	4.58	10.55	3.76	6.61	-1.77	1.11	11.70		-.08	.14ALP	8.31	7.86	
124	200	324	281.69	-1.70	279.99	5.85	10.42	3.95	6.88	-2.83	-.36	11.55		-.21	.13ALP	8.32	7.86	
124	201	325	284.90	-1.30	283.60	4.46	10.31	4.03	7.17	-1.36	.71	11.38		-.32	.12ALP	8.33	7.87	
124	202	326	286.86	-.92	285.94	5.73	10.19	4.23		-2.44		11.22		-.39	.11ALP	8.34	7.88	
124	203	327	290.24	-.56	289.68	4.34	10.07			-.96		11.06		-.39	.09ALP	8.36	7.88	
124	204	328	292.37	-.23	292.14	5.61	9.95			-2.03				-.23	.02ALP	8.37	7.89	
124	205	329	295.90	UNSTABLE AGAINST FISSION														
124	206	330	298.20	UNSTABLE AGAINST FISSION														
124	207	331	301.89	UNSTABLE AGAINST FISSION														
124	208	332	304.35	UNSTABLE AGAINST FISSION														
124	209	333	308.20	UNSTABLE AGAINST FISSION														
124	210	334	310.81	UNSTABLE AGAINST FISSION														

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Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS SHELL DIFF
125	165	290	262.47	-2.24	260.23	8.87	19.10	-2.85	-4.12	-10.05	12.03	13.95		-.03	.14ALP	7.93	7.70	
125	166	291	260.80	-2.56	258.24	10.05	18.93	-2.76	-3.80	-11.15	10.44	13.81		.08	.15ALP	7.94	7.70	
125	167	292	260.52	-2.90	257.62	8.69	18.75	-2.53	-3.48	-9.57	11.53	13.67		.21	.15ALP	7.95	7.71	
125	168	293	259.09	-3.26	255.83	9.87	18.56	-2.45	-3.18	-10.65	9.96	13.54		.35	.15ALP	7.97	7.71	
125	169	294	259.03	-3.65	255.38	8.51	18.39	-2.22	-2.87	-9.08	11.04	13.40		.50	.16ALP	7.98	7.72	
125	170	295	257.82	-4.06	253.76	9.69	18.21	-2.14	-2.56	-10.17	9.47	13.27		.67	.16ALP	7.99	7.72	
125	171	296	257.97	-4.49	253.48	8.35	18.04	-1.90	-2.24	-8.60	10.56	13.12		.84	.16ALP	8.00	7.73	
125	172	297	256.98	-4.95	252.03	9.52	17.87	-1.82	-1.94	-9.69	8.99	12.98		1.03	.16ALP	8.01	7.73	
125	173	298	257.36	-5.43	251.93	8.17	17.70	-1.60	-1.64	-8.13	10.08	12.85		1.23	.16ALP	8.02	7.74	

Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
125	174	299	256.58	-5.93	250.65	9.35	17.53	-1.51	-1.33	-9.21	8.52	12.71		1.45	.16ALP	8.04	7.74			
125	175	300	257.16	-6.45	250.71	8.02	17.36	-1.29	-1.03	-7.66	9.61	12.57		1.67	.16ALP	8.05	7.75			
125	176	301	256.60	-7.00	249.60	9.18	17.19	-1.21	-.73	-8.75	8.06	12.43		1.90	.16ALP	8.06	7.75			
125	177	302	257.39	-7.57	249.82	7.85	17.03	-.99	-.42	-7.20	9.14	12.29		2.15	.17ALP	8.07	7.76			
125	178	303	257.03	-8.16	248.87	9.02	16.87	-.90	-.12	-8.29	7.59	12.15		2.40	.17ALP	8.08	7.76			
125	179	304	258.03	-8.77	249.26	7.69	16.71	-.69	.17	-6.74	8.68	12.01		2.66	.17ALP	8.09	7.77			
125	180	305	257.88	-9.40	248.48	8.85	16.54	-.61	.47	-7.82	7.14	11.88		2.94	.17ALP	8.11	7.77			
125	181	306	259.07	-10.05	249.02	7.53	16.38	-.39	.76	-6.28	8.23	11.74		3.22	.17ALP	8.12	7.78			
125	182	307	259.12	-10.73	248.39	8.70	16.23	-.31	1.06	-7.37	6.69	11.60		3.51	.17ALP	8.13	7.78			
125	183	308	260.51	-11.43	249.08	7.38	16.08	-.10	1.36	-5.85	7.77	11.45		3.82	.17ALP	8.14	7.79			
125	184	309	260.76	-12.14	248.62	8.54	15.91	-.02	1.64	-6.92	4.70	11.32		4.13	.17ALP	8.15	7.79			
125	185	310	262.34	-11.33	251.01	5.68	14.22	.20	1.95	-3.85	5.78	12.72		3.77	.17ALP	8.16	7.80			
125	186	311	262.78	-10.55	252.23	6.85	12.53	.29	2.25	-4.94	4.26	14.12		3.42	.17ALP	8.17	7.81			
125	187	312	264.55	-9.79	254.76	5.55	12.39	.50	2.54	-3.43	5.34	13.96		3.09	.17ALP	8.19	7.81			
125	188	313	265.19	-9.06	256.13	6.71	12.25	.58	2.83	-4.50	3.84	13.81		2.77	.17ALP	8.20	7.82			
125	189	314	267.15	-8.36	258.79	5.41	12.12	.79	3.13	-3.00	4.91	13.64		2.46	.17ALP	8.21	7.82			
125	190	315	267.97	-7.68	260.29	6.57	11.98	.87	3.42	-4.07	3.41	13.48		2.16	.16ALP	8.22	7.83			
125	191	316	270.11	-7.03	263.08	5.28	11.85	1.08	3.71	-2.58	4.49	13.32		1.88	.16ALP	8.23	7.83			
125	192	317	271.12	-6.40	264.72	6.43	11.71	1.16	3.99	-3.65	3.00	13.17		1.61	.16ALP	8.24	7.84			
125	193	318	273.43	-5.80	267.63	5.16	11.59	1.38	4.29	-2.16	4.06	12.99		1.35	.16ALP	8.25	7.84			
125	194	319	274.62	-5.23	269.39	6.31	11.47	1.46	4.58	-3.24	2.57	12.83		1.10	.16ALP	8.26	7.85			
125	195	320	277.12	-4.68	272.44	5.02	11.34	1.66	4.86	-1.75	3.65	12.67		.87	.16ALP	8.27	7.85			
125	196	321	278.49	-4.15	274.34	6.18	11.20	1.74	5.14	-2.82	2.17	12.52		.65	.15ALP	8.29	7.86			
125	197	322	281.16	-3.65	277.51	4.90	11.08	1.95	5.42	-1.34	3.24	12.36		.45	.15ALP	8.30	7.86			
125	198	323	282.70	-3.17	279.53	6.05	10.95	2.03	5.70	-2.41	1.77	12.20		.26	.15ALP	8.31	7.87			
125	199	324	285.54	-2.72	282.82	4.78	10.83	2.23	5.99	-.94	2.83	12.04		.08	.14ALP	8.32	7.87			
125	200	325	287.26	-2.29	284.97	5.93	10.70	2.31	6.26	-2.01	1.37	11.89		-.07	.14ALP	8.33	7.88			
125	201	326	290.27	-1.89	288.38	4.66	10.58	2.51	6.54	-.54	2.43	11.72		-.20	.13ALP	8.34	7.88			
125	202	327	292.15	-1.51	290.64	5.81	10.47	2.59	6.83	-1.62	.96	11.56		-.32	.13ALP	8.35	7.89			
125	203	328	295.33	-1.15	294.18	4.54	10.34	2.79		-.14	2.04	11.41		-.39	.12ALP	8.36	7.90			
125	204	329	297.38	-.82	296.56	5.68	10.23	2.87		-1.22		11.25		-.43	.10ALP	8.37	7.90			
125	205	330	300.72	-.51	300.21	4.42	10.11			.24				-.40	.08ALP	8.38	7.91			
125	206	331	302.93	UNSTABLE AGAINST FISSION																
125	207	332	306.43	UNSTABLE AGAINST FISSION																
125	208	333	308.81	UNSTABLE AGAINST FISSION																
125	209	334	312.46	UNSTABLE AGAINST FISSION																
125	210	335	315.00	UNSTABLE AGAINST FISSION																

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126	158	284	283.17	-1.40	281.77	11.04	20.75	-2.91		-16.42	11.55			-.36	.13ALP	7.85	7.67			
126	159	285	281.87	-1.54	280.33	9.51	20.55	-2.82	-6.63	-14.80	12.65			-.33	.13ALP	7.87	7.68			
126	160	286	279.27	-1.70	277.57	10.84	20.35	-2.60	-6.32	-15.88	11.06			-.28	.13ALP	7.88	7.69			
126	161	287	278.20	-1.89	276.31	9.33	20.16	-2.50	-5.99	-14.28	12.15	14.76		-.22	.14ALP	7.89	7.69			
126	162	288	275.84	-2.11	273.73	10.65	19.98	-2.28	-5.67	-15.37	10.54	14.63		-.15	.14ALP	7.90	7.70			
126	163	289	275.02	-2.35	272.67	9.14	19.78	-2.19	-5.36	-13.76	11.65	14.50		-.07	.14ALP	7.91	7.70			
126	164	290	272.89	-2.62	270.27	10.46	19.61	-1.96	-5.03	-14.86	10.05	14.36		.03	.15ALP	7.93	7.71			
126	165	291	272.30	-2.91	269.39	8.95	19.42	-1.88	-4.72	-13.26	11.15	14.23		.14	.15ALP	7.94	7.71			
126	166	292	270.41	-3.22	267.19	10.27	19.23	-1.66	-4.41	-14.34	9.57	14.11		.26	.15ALP	7.95	7.72			
126	167	293	270.04	-3.56	266.48	8.78	19.05	-1.57	-4.10	-12.76	10.65	13.97		.39	.15ALP	7.96	7.72			
126	168	294	268.38	-3.92	264.46	10.09	18.87	-1.35	-3.79	-13.84	9.08	13.84		.53	.16ALP	7.97	7.73			
126	169	295	268.23	-4.30	263.93	8.60	18.69	-1.26	-3.48	-12.26	10.17	13.70		.69	.16ALP	7.98	7.73			
126	170	296	266.79	-4.71	262.08	9.92	18.52	-1.03	-3.17	-13.35	8.60	13.56		.86	.16ALP	8.00	7.74			
126	171	297	266.86	-5.14	261.72	8.44	18.35	-.95	-2.86	-11.78	9.69	13.42		1.04	.16ALP	8.01	7.74			
126	172	298	265.65	-5.60	260.05	9.74	18.18	-.73	-2.55	-12.86	8.12	13.29		1.23	.16ALP	8.02	7.75			
126	173	299	265.94	-6.07	259.87	8.26	18.00	-.65	-2.25	-11.29	9.22	13.16		1.43	.16ALP	8.03	7.75			
126	174	300	264.94	-6.57	258.37	9.57	17.83	-.43	-1.94	-12.37	7.66	13.02		1.64	.16ALP	8.04	7.76			
126	175	301	265.44	-7.09	258.35	8.10	17.66	-.35	-1.64	-10.81	8.75	12.88		1.86	.16ALP	8.05	7.76			
126	176	302	264.66	-7.64	257.02	9.39	17.49	-.13	-1.34	-11.89	7.20	12.75		2.10	.16ALP	8.07	7.77			
126	177	303	265.36	-8.20	257.16	7.93	17.33	-.05	-1.04	-10.34	8.28	12.61		2.34	.17ALP	8.08	7.77			
126	178	3C4	264.79	-8.79	256.00	9.23	17.16	.17	-.74	-11.42	6.74	12.47		2.60	.17ALP	8.09	7.78			
126	179	305	265.70	-9.40	256.30	7.77	17.00	.25	-.44	-9.87	7.82	12.33		2.86	.17ALP	8.10	7.78			
126	180	306	265.33	-10.03	255.30	9.07	16.84	.46	-.14	-10.95	6.28	12.19		3.13	.17ALP	8.11	7.79			
126	181	307	266.44	-10.68	255.76	7.61	16.68	.54	.15	-9.41	7.37	12.05		3.42	.17ALP	8.12	7.79			
126	182	308	266.28	-11.35	254.93	8.90	16.52	.75	.44	-10.48	5.85	11.92		3.71	.17ALP	8.14	7.80			
126	183	309	267.58	-12.04	255.54	7.46	16.36	.84	.74	-8.95	6.92	11.78		4.01	.17ALP	8.15	7.80			
126	184	310	267.62	-12.76	254.86	8.75	16.21	1.04	1.03	-10.03	3.85	11.64		4.32	.17ALP	8.16	7.81			
126	185	311	269.12	-11.95	257.17	5.76	14.51	1.13	1.33	-6.96	4.93	13.05		3.96	.17ALP	8.17	7.81			
126	186	312	269.35	-11.16	258.19	7.06	12.81	1.34	1.62	-8.03	3.43	14.45		3.62	.17ALP	8.18	7.82			
126	187	313	271.04	-10.41	260.63	5.63	12.68	1.42	1.92	-6.52	4.50	14.28		3.29	.17ALP	8.19	7.83			
126	188	314	271.46	-9.68	261.78	6.92	12.55	1.64	2.22	-7.59	2.99	14.12		2.96	.17ALP	8.20	7.83			
126	189	315	273.34	-8.97	264.37	5.49	12.40	1.71	2.50	-6.07	4.08	13.97		2.66	.16ALP	8.21	7.84			
126	190	316	273.95	-8.30	265.65	6.78	12.28	1.92	2.80	-7.16	2.57	13.80		2.36	.16ALP	8.23	7.84			
126	191	317	276.01	-7.65	268.36	5.36	12.15	2.00	3.10	-5.66	3.65	13.64		2.08	.16ALP	8.24	7.85			
126	192	318	276.81	-7.02	269.79	6.65	12.01	2.21	3.38	-6.72	2.16	13.49		1.80	.16ALP	8.25	7.85			
126	193	319	279.05	-6.42	272.63	5.23	11.88	2.29	3.67	-5.23	3.23	13.33		1.54	.16ALP	8.26	7.86			
126	194	320	280.04	-5.84	274.20	6.51	11.74	2.49	3.94	-6.28	1.76	13.18		1.30	.16ALP	8.27	7.86			
126	195	321	282.45	-5.29	277.16	5.11	11.62	2.58	4.24	-4.80	2.82	13.01		1.06	.16ALP	8.28	7.87			
126	196	322	283.62	-4.77	278.85	6.38	11.49	2.77	4.52	-5.87	1.34	12.86		.84	.15ALP	8.29	7.87			
126	197	323	286.21	-4.27	281.94	4.98	11.36	2.85	4.81	-4.39	2.41	12.69		.64	.15ALP	8.30	7.88			
126	198	324	287.55	-3.79	283.76	6.25	11.23	3.06	5.09	-5.45	.94	12.54		.44	.15ALP	8.31	7.88			
126	199	325	290.31	-3.34	286.97	4.86	11.12	3.14	5.37	-3.98	2.01	12.38		.26	.15ALP	8.32	7.89			
126	200	326	291.83	-2.91	288.92	6.13	10.98	3.33	5.64	-5.04	.54	12.23		.10	.14ALP	8.34	7.89			
126	201	327	294.76	-2.50	292.26	4.74	10.86	3.41	5.92	-3.56	1.62	12.07		-.05	.14ALP	8.35	7.90			
126	202	328	296.45	-2.12	294.33	6.00	10.73	3.61	6.19	-4.62	.16	11.92		-.18	.14ALP	8.36	7.90			
126	203	329	299.54	-1.77	297.77	4.62	10.63	3.69	6.49	-3.17	1.21	11.74		-.29	.13ALP	8.37	7.91			
126	204	330	301.40	-1.43	299.97	5.88	10.50	3.88	6.75	-4.22	-.24	11.60		-.38	.12ALP	8.38	7.92			
126	205	331	304.66	-1.12	303.54	4.50	10.38	3.96		-2.76		11.44		-.44	.11ALP	8.39	7.92			

Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
126	206	332	306.68	-.83	305.85	5.76	10.26			-3.82		11.29		-.46	.10ALP	8.40	7.93			
126	207	333	310.10	-.57	309.53	4.39	10.15							-.43	.08ALP	8.41	7.93			
126	208	334	312.29	-.33	311.96	5.64	10.03							-.32	.04ALP	8.42	7.94			
126	209	335	315.87	UNSTABLE AGAINST FISSION																
126	210	336	318.21	UNSTABLE AGAINST FISSION																

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Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
127	177	304	274.91	-7.49	267.42	8.15	17.64	-2.97	-3.02	-9.47	11.42	14.28		1.96	.16ALP	8.08	7.79			
127	178	305	274.25	-8.08	266.17	9.32	17.47	-2.88	-2.71	-10.56	9.87	14.14		2.21	.17ALP	8.10	7.79			
127	179	306	274.94	-8.69	266.25	7.99	17.31	-2.67	-2.41	-9.02	10.95	14.00		2.47	.17ALP	8.11	7.80			
127	180	307	274.49	-9.32	265.17	9.15	17.15	-2.58	-2.11	-10.09	9.41	13.87		2.75	.17ALP	8.12	7.80			
127	181	308	275.38	-9.97	265.41	7.83	16.98	-2.36	-1.82	-8.55	10.48	13.73		3.03	.17ALP	8.13	7.81			
127	182	309	275.13	-10.64	264.49	8.99	16.82	-2.28	-1.52	-9.63	8.95	13.59		3.32	.17ALP	8.14	7.81			
127	183	310	276.22	-11.33	264.89	7.67	16.66	-2.06	-1.23	-8.10	10.03	13.45		3.62	.17ALP	8.15	7.82			
127	184	311	276.17	-12.05	264.12	8.83	16.51	-1.97	-.92	-9.18	6.95	13.30		3.93	.17ALP	8.16	7.82			
127	185	312	277.45	-11.24	266.21	5.99	14.82	-1.75	-.62	-6.12	8.02	14.70		3.58	.17ALP	8.18	7.83			
127	186	313	277.60	-10.46	267.14	7.15	13.13	-1.67	-.33	-7.19	6.51	16.10		3.24	.17ALP	8.19	7.84			
127	187	314	279.08	-9.71	269.37	5.84	12.99	-1.46	-.03	-5.68	7.58	15.94		2.91	.17ALP	8.20	7.84			
127	188	315	279.42	-8.98	270.44	7.00	12.85	-1.37	.27	-6.75	6.08	15.78		2.59	.16ALP	8.21	7.85			
127	189	316	281.09	-8.28	272.81	5.70	12.71	-1.16	.56	-5.24	7.15	15.62		2.29	.16ALP	8.22	7.85			
127	190	317	281.62	-7.60	274.02	6.86	12.57	-1.07	.85	-6.31	5.65	15.47		1.99	.16ALP	8.23	7.86			
127	191	318	283.47	-6.95	276.52	5.57	12.43	-.86	1.14	-4.81	6.73	15.31		1.71	.16ALP	8.24	7.86			
127	192	319	284.19	-6.33	277.86	6.73	12.30	-.77	1.43	-5.88	5.23	15.15		1.45	.16ALP	8.25	7.87			
127	193	320	286.22	-5.73	280.49	5.44	12.17	-.56	1.72	-4.38	6.30	14.99		1.19	.16ALP	8.26	7.87			
127	194	321	287.12	-5.16	281.96	6.60	12.04	-.48	2.02	-5.46	4.80	14.82		.95	.16ALP	8.28	7.88			
127	195	322	289.33	-4.61	284.72	5.32	11.91	-.27	2.30	-3.97	5.87	14.66		.73	.15ALP	8.29	7.88			
127	196	323	290.42	-4.09	286.33	6.46	11.78	-.19	2.59	-5.03	4.39	14.51		.51	.15ALP	8.30	7.89			
127	197	324	292.80	-3.59	289.21	5.19	11.65	.02	2.88	-3.56	5.45	14.34		.32	.15ALP	8.31	7.89			
127	198	325	294.07	-3.12	290.95	6.33	11.52	.10	3.16	-4.62	3.97	14.19		.13	.14ALP	8.32	7.90			
127	199	326	296.62	-2.67	293.95	5.07	11.40	.31	3.45	-3.15	5.03	14.02		-.03	.14ALP	8.33	7.90			
127	200	327	298.06	-2.24	295.82	6.21	11.27	.39	3.72	-4.21	3.56	13.87		-.18	.14ALP	8.34	7.91			
127	201	328	300.79	-1.84	298.95	4.94	11.15	.59	4.01	-2.74	4.63	13.70		-.30	.13ALP	8.35	7.91			
127	202	329	302.40	-1.46	300.94	6.08	11.02	.67	4.28	-3.80	3.16	13.55		-.40	.12ALP	8.36	7.92			
127	203	330	305.30	-1.11	304.19	4.82	10.90	.87	4.56	-2.34	4.22	13.39		-.46	.11ALP	8.37	7.92			
127	204	331	307.07	-.77	306.30	5.97	10.78	.96	4.84	-3.40	2.76	13.23		-.48	.10ALP	8.38	7.93			
127	205	332	310.13	-.46	309.67	4.71	10.66	1.16	5.12		3.82	13.07		-.41	.07ALP	8.40	7.94			
127	206	333	312.08	UNSTABLE AGAINST FISSION																
127	207	334	315.30	UNSTABLE AGAINST FISSION																
127	208	335	317.41	UNSTABLE AGAINST FISSION																
127	209	336	320.79	UNSTABLE AGAINST FISSION																
127	210	337	323.06	UNSTABLE AGAINST FISSION																

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Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
128	171	299	286.88	-3.74	283.14	8.75	18.97	-2.94	-6.84	-12.67	11.98	16.79		.33	.15ALP	8.02	7.77			
128	172	300	285.36	-4.20	281.16	10.05	18.80	-2.72	-6.53	-13.75	10.42	16.65		.51	.15ALP	8.03	7.78			
128	173	301	285.33	-4.67	280.66	8.58	18.62	-2.63	-6.22	-12.19	11.50	16.51		.70	.16ALP	8.04	7.78			
128	174	302	284.03	-5.17	278.86	9.88	18.45	-2.41	-5.91	-13.26	9.95	16.38		.91	.16ALP	8.06	7.79			
128	175	303	284.22	-5.70	278.52	8.41	18.28	-2.32	-5.60	-11.71	11.02	16.23		1.13	.16ALP	8.07	7.79			
128	176	304	283.13	-6.24	276.89	9.71	18.11	-2.10	-5.29	-12.79	9.47	16.09		1.35	.16ALP	8.08	7.80			
128	177	305	283.53	-6.81	276.72	8.24	17.95	-2.02	-4.98	-11.24	10.55	15.95		1.59	.16ALP	8.09	7.80			
128	178	306	282.66	-7.39	275.27	9.53	17.77	-1.81	-4.69	-12.30	9.02	15.82		1.84	.16ALP	8.10	7.81			
128	179	307	283.26	-8.00	275.26	8.08	17.61	-1.72	-4.38	-10.76	10.09	15.68		2.10	.16ALP	8.11	7.81			
128	180	308	282.60	-8.63	273.97	9.36	17.44	-1.51	-4.09	-11.83	8.56	15.54		2.37	.16ALP	8.13	7.82			
128	181	309	283.40	-9.28	274.12	7.92	17.28	-1.42	-3.78	-10.30	9.63	15.40		2.65	.16ALP	8.14	7.82			
128	182	310	282.94	-9.96	272.98	9.21	17.13	-1.20	-3.48	-11.38	8.09	15.25		2.95	.17ALP	8.15	7.83			
128	183	311	283.95	-10.65	273.30	7.76	16.96	-1.12	-3.18	-9.84	9.17	15.11		3.25	.17ALP	8.16	7.83			
128	184	312	283.69	-11.36	272.33	9.04	16.80	-.91	-2.89	-10.91	6.11	14.98		3.56	.17ALP	8.17	7.84			
128	185	313	284.89	-10.56	274.33	6.07	15.11	-.83	-2.58	-7.85	7.18	16.37		3.21	.17ALP	8.18	7.85			
128	186	314	284.83	-9.78	275.05	7.35	13.42	-.61	-2.29	-8.92	5.68	17.76		2.87	.17ALP	8.19	7.85			
128	187	315	286.22	-9.03	277.19	5.93	13.28	-.52	-1.98	-7.41	6.75	17.60		2.54	.16ALP	8.20	7.86			
128	188	316	286.36	-8.31	278.05	7.21	13.14	-.32	-1.69	-8.48	5.24	17.44		2.23	.16ALP	8.22	7.86			
128	189	317	287.94	-7.61	280.33	5.79	13.00	-.23	-1.39	-6.97	6.31	17.28		1.93	.16ALP	8.23	7.87			
128	190	318	288.27	-6.94	281.33	7.07	12.86	-.03	-1.09	-8.03	4.82	17.12		1.64	.16ALP	8.24	7.87			
128	191	319	290.03	-6.29	283.74	5.66	12.73	.07	-.80	-6.54	5.88	16.95		1.37	.16ALP	8.25	7.88			
128	192	320	290.55	-5.67	284.88	6.93	12.59	.27	-.51	-7.60	4.40	16.80		1.11	.16ALP	8.26	7.88			
128	193	321	292.50	-5.08	287.42	5.52	12.46	.35	-.21	-6.11	5.46	16.63		.86	.15ALP	8.27	7.89			
128	194	322	293.20	-4.51	288.69	6.80	12.33	.56	.08	-7.18	3.97	16.47		.63	.15ALP	8.28	7.89			
128	195	323	295.33	-3.96	291.37	5.39	12.19	.64	.37	-5.68	5.04	16.31		.41	.15ALP	8.29	7.90			
128	196	324	296.21	-3.44	292.77	6.67	12.06	.85	.66	-6.75	3.56	16.15		.21	.15ALP	8.30	7.90			
128	197	325	298.52	-2.94	295.58	5.27	11.93	.93	.94	-5.26	4.63	15.99		.02	.14ALP	8.31	7.91			
128	198	326	299.58	-2.47	297.11	6.53	11.80	1.13	1.23	-6.33	3.15	15.83		-.14	.14ALP	8.33	7.91			
128	199	327	302.06	-2.03	300.03	5.14	11.68	1.21	1.52	-4.86	4.21	15.66		-.28	.13ALP	8.34	7.92			
128	200	328	303.30	-1.60	301.70	6.40	11.55	1.41	1.80	-5.91	2.75	15.51		-.40	.12ALP	8.35	7.92			
128	201	329	305.95	-1.20	304.75	5.02	11.42	1.49	2.08	-4.44	3.81	15.35		-.47	.11ALP	8.36	7.93			
128	202	330	307.36	-.82	306.54	6.28	11.30	1.69	2.36	-5.50	2.35	15.19		-.50	.10ALP	8.37	7.93			
128	203	331	310.18	-.47	309.71	4.90	11.18	1.77	2.65		3.41	15.03		-.42	.06ALP	8.38	7.94			
128	204	332	311.76	UNSTABLE AGAINST FISSION																
128	205	333	314.74	UNSTABLE AGAINST FISSION																
128	206	334	316.49	UNSTABLE AGAINST FISSION																
128	207	335	319.64	UNSTABLE AGAINST FISSION																
128	208	336	321.55	UNSTABLE AGAINST FISSION																
128	209	337	324.86	UNSTABLE AGAINST FISSION																
128	210	338	326.94	UNSTABLE AGAINST FISSION																

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Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
129	181	310	292.99	-8.63	284.36	8.13	17.58	-2.95	-4.37	-9.44	11.37	15.68		2.30	.16ALP	8.14	7.84			

Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS SHELL DIFF
129	182	311	292.44	-9.30	283.14	9.29	17.42	-2.86	-4.07	-10.51	9.84	15.54		2.59	.16ALP	8.15	7.84	
129	183	312	293.23	-10.00	283.23	7.98	17.27	-2.65	-3.77	-9.00	10.90	15.40		2.89	.17ALP	8.17	7.85	
129	184	313	292.89	-10.71	282.18	9.13	17.10	-2.56	-3.48	-10.06	7.85	15.26		3.19	.17ALP	8.18	7.86	
129	185	314	293.88	-9.91	283.97	6.28	15.41	-2.35	-3.18	-7.00	8.92	16.66		2.85	.16ALP	8.19	7.86	
129	186	315	293.73	-9.14	284.59	7.45	13.73	-2.26	-2.87	-8.08	7.40	18.04		2.51	.16ALP	8.20	7.87	
129	187	316	294.91	-8.39	286.52	6.15	13.59	-2.04	-2.57	-6.57	8.47	17.88		2.19	.16ALP	8.21	7.87	
129	188	317	294.97	-7.67	287.30	7.30	13.44	-1.96	-2.28	-7.63	6.97	17.73		1.89	.16ALP	8.22	7.88	
129	189	318	296.34	-6.97	289.37	6.00	13.30	-1.75	-1.98	-6.13	8.04	17.57		1.59	.16ALP	8.23	7.88	
129	190	319	296.58	-6.30	290.28	7.16	13.16	-1.66	-1.69	-7.20	6.54	17.41		1.31	.16ALP	8.24	7.89	
129	191	320	298.14	-5.66	292.48	5.87	13.03	-1.45	-1.39	-5.70	7.61	17.25		1.04	.16ALP	8.25	7.89	
129	192	321	298.57	-5.04	293.53	7.02	12.89	-1.36	-1.09	-6.77	6.11	17.09		.79	.15ALP	8.27	7.90	
129	193	322	300.32	-4.45	295.87	5.73	12.75	-1.16	-.81	-5.28	7.18	16.93		.55	.15ALP	8.28	7.90	
129	194	323	300.94	-3.88	297.06	6.88	12.62	-1.08	-.52	-6.34	5.70	16.78		.33	.15ALP	8.29	7.91	
129	195	324	302.86	-3.34	299.52	5.60	12.49	-.87	-.22	-4.86	6.75	16.61		.12	.14ALP	8.30	7.91	
129	196	325	303.66	-2.82	300.84	6.75	12.36	-.78	.07	-5.92	5.27	16.45		-.07	.14ALP	8.31	7.92	
129	197	326	305.76	-2.33	303.43	5.48	12.23	-.57	.36	-4.45	6.33	16.29		-.23	.13ALP	8.32	7.92	
129	198	327	306.75	-1.86	304.89	6.61	12.09	-.50	.64	-5.50	4.86	16.14		-.37	.13ALP	8.33	7.93	
129	199	328	309.02	-1.41	307.61	5.35	11.97	-.29	.93	-4.03	5.92	15.97		-.47	.12ALP	8.34	7.93	
129	200	329	310.18	-.99	309.19	6.49	11.84	-.21	1.21	-5.09	4.45	15.82		-.52	.10ALP	8.35	7.94	
129	201	330	312.63	-.59	312.04	5.23	11.71	-	1.49	-3.62	5.51	15.66		-.47	.08ALP	8.36	7.94	
129	202	331	313.96	UNSTABLE AGAINST FISSION														
129	203	332	316.58	UNSTABLE AGAINST FISSION														
129	204	333	318.09	UNSTABLE AGAINST FISSION														
129	205	334	320.87	UNSTABLE AGAINST FISSION														
129	206	335	322.55	UNSTABLE AGAINST FISSION														
129	207	336	325.49	UNSTABLE AGAINST FISSION														
129	208	337	327.33	UNSTABLE AGAINST FISSION														
129	209	338	330.44	UNSTABLE AGAINST FISSION														
129	210	339	332.45	UNSTABLE AGAINST FISSION														

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130	174	304	304.41	-3.90	300.51	10.18	19.07	-2.99	-7.07	-14.15	10.83	16.92		.26	.15ALP	8.07	7.82	
130	175	305	304.29	-4.42	299.87	8.72	18.90	-2.91	-6.77	-12.60	11.91	16.78		.47	.15ALP	8.08	7.82	
130	176	306	302.91	-4.96	297.95	10.00	18.71	-2.70	-6.48	-13.66	10.38	16.67		.68	.15ALP	8.09	7.83	
130	177	307	303.00	-5.53	297.47	8.54	18.55	-2.61	-6.17	-12.12	11.45	16.52		.91	.16ALP	8.10	7.83	
130	178	308	301.82	-6.12	295.70	9.84	18.39	-2.39	-5.86	-13.19	9.90	16.38		1.16	.16ALP	8.12	7.84	
130	179	309	302.12	-6.73	295.39	8.38	18.22	-2.30	-5.55	-11.66	10.97	16.24		1.41	.16ALP	8.13	7.84	
130	180	310	301.16	-7.36	293.80	9.66	18.05	-2.09	-5.26	-12.72	9.44	16.11		1.68	.16ALP	8.14	7.85	
130	181	311	301.66	-8.01	293.65	8.22	17.89	-2.01	-4.95	-11.19	10.51	15.97		1.95	.16ALP	8.15	7.85	
130	182	312	300.91	-8.68	292.23	9.50	17.72	-1.80	-4.67	-12.25	8.99	15.84		2.24	.16ALP	8.16	7.86	
130	183	313	301.61	-9.37	292.24	8.06	17.56	-1.71	-4.36	-10.72	10.06	15.70		2.54	.16ALP	8.17	7.87	
130	184	314	301.06	-10.09	290.97	9.34	17.40	-1.50	-4.07	-11.79	7.00	15.56		2.85	.16ALP	8.18	7.87	
130	185	315	301.96	-9.29	292.67	6.37	15.71	-1.41	-3.76	-8.74	8.07	16.95		2.50	.16ALP	8.19	7.88	
130	186	316	301.61	-8.52	293.09	7.65	14.03	-1.20	-3.46	-9.81	6.56	18.34		2.18	.16ALP	8.21	7.88	
130	187	317	302.71	-7.77	294.94	6.23	13.88	-1.12	-3.17	-8.29	7.64	18.19		1.86	.16ALP	8.22	7.89	
130	188	318	302.55	-7.06	295.49	7.51	13.75	-.91	-2.86	-9.37	6.13	18.02		1.56	.16ALP	8.23	7.89	
130	189	319	303.84	-6.36	297.48	6.09	13.60	-.82	-2.57	-7.85	7.20	17.87		1.27	.16ALP	8.24	7.90	
130	190	320	303.88	-5.70	298.18	7.37	13.46	-.61	-2.28	-8.92	5.70	17.71		.99	.15ALP	8.25	7.90	
130	191	321	305.36	-5.06	300.30	5.95	13.32	-.53	-1.98	-7.42	6.77	17.55		.73	.15ALP	8.26	7.91	
130	192	322	305.59	-4.44	301.15	7.22	13.18	-.33	-1.70	-8.48	5.28	17.40		.49	.15ALP	8.27	7.91	
130	193	323	307.25	-3.85	303.40	5.82	13.04	-.24	-1.40	-6.99	6.35	17.24		.26	.15ALP	8.28	7.92	
130	194	324	307.66	-3.29	304.37	7.09	12.92	-.03	-1.10	-8.06	4.85	17.07		.05	.14ALP	8.29	7.92	
130	195	325	309.51	-2.74	306.77	5.69	12.77	.04	-.83	-6.56	5.93	16.93		-.14	.14ALP	8.31	7.93	
130	196	326	310.11	-2.23	307.88	6.95	12.64	.25	-.53	-7.63	4.44	16.76		-.30	.13ALP	8.32	7.93	
130	197	327	312.13	-1.74	310.39	5.56	12.51	.33	-.24	-6.15	5.50	16.60		-.43	.12ALP	8.33	7.94	
130	198	328	312.91	-1.27	311.64	6.82	12.38	.54	.04	-7.21	4.03	16.45		-.52	.11ALP	8.34	7.94	
130	199	329	315.11	-.83	314.28	5.43	12.26	.62	.33	-5.74	5.09	16.28		-.53	.09ALP	8.35	7.95	
130	200	330	316.07	-.41	315.66	6.69	12.13	.82	.61		3.62	16.13		-.39	.05ALP	8.36	7.95	
130	201	331	318.44	UNSTABLE AGAINST FISSION														
130	202	332	319.58	UNSTABLE AGAINST FISSION														
130	203	333	322.12	UNSTABLE AGAINST FISSION														
130	204	334	323.43	UNSTABLE AGAINST FISSION														
130	205	335	326.13	UNSTABLE AGAINST FISSION														
130	206	336	327.61	UNSTABLE AGAINST FISSION														
130	207	337	330.49	UNSTABLE AGAINST FISSION														
130	208	338	332.13	UNSTABLE AGAINST FISSION														
130	209	339	335.17	UNSTABLE AGAINST FISSION														
130	210	340	336.98	UNSTABLE AGAINST FISSION														

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131	185	316	311.59	-8.70	302.89	6.59	16.02	-2.93	-4.34	-7.90	9.80	17.23		2.18	.16ALP	8.20	7.89	
131	186	317	311.16	-7.93	303.23	7.74	14.33	-2.85	-4.05	-8.96	8.30	18.62		1.85	.16ALP	8.21	7.90	
131	187	318	312.04	-7.19	304.85	6.45	14.19	-2.63	-3.75	-7.46	9.35	18.46		1.54	.16ALP	8.22	7.90	
131	188	319	311.81	-6.47	305.34	7.59	14.03	-2.55	-3.46	-8.51	7.86	18.32		1.24	.16ALP	8.23	7.91	
131	189	320	312.89	-5.78	307.11	6.30	13.89	-2.34	-3.17	-7.01	8.93	18.16		.96	.15ALP	8.25	7.91	
131	190	321	312.84	-5.12	307.72	7.45	13.76	-2.25	-2.86	-8.08	7.42	18.00		.69	.15ALP	8.26	7.92	
131	191	322	314.11	-4.48	309.63	6.17	13.62	-2.04	-2.57	-6.59	8.48	17.84		.44	.15ALP	8.27	7.92	
131	192	323	314.26	-3.87	310.39	7.31	13.48	-1.96	-2.28	-7.65	6.99	17.69		.21	.15ALP	8.28	7.93	
131	193	324	315.71	-3.28	312.43	6.03	13.34	-1.74	-1.99	-6.16	8.05	17.53		-.01	.14ALP	8.29	7.93	
131	194	325	316.05	-2.72	313.33	7.17	13.20	-1.67	-1.70	-7.22	6.57	17.37		-.20	.14ALP	8.30	7.94	
131	195	326	317.69	-2.18	315.51	5.89	13.07	-1.46	-1.41	-5.74	7.63	17.22		-.36	.13ALP	8.31	7.94	
131	196	327	318.21	-1.66	316.55	7.03	12.92	-1.38	-1.13	-6.79	6.16	17.07		-.49	.12ALP	8.32	7.95	
131	197	328	320.02	-1.18	318.84	5.77	12.81	-1.16	-.83	-5.33	7.20	16.90		-.56	.11ALP	8.33	7.95	
131	198	329	320.73	-.71	320.02	6.90	12.67	-1.09	-.55	-6.38	5.74	16.75		-.53	.08ALP	8.34	7.96	
131	199	330	322.72	UNSTABLE AGAINST FISSION														
131	200	331	323.60	UNSTABLE AGAINST FISSION														
131	201	332	325.77	UNSTABLE AGAINST FISSION														

Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS SHELL DIFF
131	202	333	326.83	UNSTABLE AGAINST FISSION														
131	203	334	329.17	UNSTABLE AGAINST FISSION														
131	204	335	330.40	UNSTABLE AGAINST FISSION														
131	205	336	332.91	UNSTABLE AGAINST FISSION														
131	206	337	334.31	UNSTABLE AGAINST FISSION														
131	207	338	336.99	UNSTABLE AGAINST FISSION														
131	208	339	338.56	UNSTABLE AGAINST FISSION														
131	209	340	341.40	UNSTABLE AGAINST FISSION														
131	210	341	343.13	UNSTABLE AGAINST FISSION														
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132	178	310	322.27	-4.96	317.31	10.13	18.98	-2.98	-7.03	-14.06	10.79	16.94		.55	.15ALP	8.13	7.87	
132	179	311	322.26	-5.57	316.69	8.69	18.82	-2.89	-6.72	-12.53	11.85	16.80		.79	.15ALP	8.14	7.87	
132	180	312	321.00	-6.20	314.80	9.96	18.65	-2.67	-6.42	-13.59	10.32	16.67		1.05	.16ALP	8.15	7.88	
132	181	313	321.21	-6.85	314.36	8.52	18.48	-2.60	-6.13	-12.06	11.40	16.54		1.32	.16ALP	8.16	7.88	
132	182	314	320.15	-7.52	312.63	9.80	18.32	-2.38	-5.82	-13.13	9.87	16.40		1.60	.16ALP	8.17	7.89	
132	183	315	320.56	-8.21	312.35	8.36	18.15	-2.30	-5.53	-11.60	10.94	16.27		1.89	.16ALP	8.18	7.90	
132	184	316	319.72	-8.92	310.80	9.62	17.98	-2.09	-5.25	-12.65	7.90	16.15		2.19	.16ALP	8.20	7.90	
132	185	317	320.32	-8.13	312.19	6.68	16.30	-2.00	-4.94	-9.62	8.96	17.53		1.86	.16ALP	8.21	7.91	
132	186	318	319.68	-7.37	312.31	7.95	14.62	-1.79	-4.64	-10.68	7.45	18.91		1.54	.16ALP	8.22	7.91	
132	187	319	320.48	-6.63	313.85	6.53	14.48	-1.70	-4.34	-9.18	8.52	18.75		1.24	.16ALP	8.23	7.92	
132	188	320	320.04	-5.92	314.12	7.80	14.33	-1.50	-4.04	-10.23	7.02	18.60		.95	.15ALP	8.24	7.92	
132	189	321	321.03	-5.23	315.80	6.39	14.19	-1.41	-3.74	-8.74	8.08	18.44		.67	.15ALP	8.25	7.93	
132	190	322	320.79	-4.57	316.22	7.65	14.04	-1.21	-3.46	-9.79	6.59	18.30		.41	.15ALP	8.26	7.93	
132	191	323	321.97	-3.93	318.04	6.25	13.91	-1.12	-3.16	-8.30	7.65	18.14		.17	.14ALP	8.27	7.94	
132	192	324	321.92	-3.32	318.60	7.51	13.76	-.92	-2.88	-9.35	6.17	17.99		-.05	.14ALP	8.28	7.94	
132	193	325	323.29	-2.74	320.55	6.11	13.63	-.83	-2.58	-7.87	7.22	17.83		-.24	.14ALP	8.30	7.95	
132	194	326	323.42	-2.18	321.24	7.38	13.50	-.62	-2.28	-8.93	5.73	17.67		-.41	.13ALP	8.31	7.95	
132	195	327	324.98	-1.64	323.34	5.98	13.35	-.54	-2.00	-7.44	6.80	17.52		-.53	.12ALP	8.32	7.96	
132	196	328	325.30	-1.13	324.17	7.24	13.22	-.34	-1.71	-8.50	5.32	17.37		-.59	.10ALP	8.33	7.96	
132	197	329	327.04	-.64	326.40	5.84	13.08	-.26	-1.43	-7.02	6.38	17.21		-.53	.07ALP	8.34	7.97	
132	198	330	327.54	UNSTABLE AGAINST FISSION														
132	199	331	329.46	UNSTABLE AGAINST FISSION														
132	200	332	330.14	UNSTABLE AGAINST FISSION														
132	201	333	332.23	UNSTABLE AGAINST FISSION														
132	202	334	333.09	UNSTABLE AGAINST FISSION														
132	203	335	335.35	UNSTABLE AGAINST FISSION														
132	204	336	336.39	UNSTABLE AGAINST FISSION														
132	205	337	338.82	UNSTABLE AGAINST FISSION														
132	206	338	340.03	UNSTABLE AGAINST FISSION														
132	207	339	342.63	UNSTABLE AGAINST FISSION														
132	208	340	344.01	UNSTABLE AGAINST FISSION														
132	209	341	346.77	UNSTABLE AGAINST FISSION														
132	210	342	348.31	UNSTABLE AGAINST FISSION														
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133	189	322	330.71	-4.71	326.00	6.60	14.50	-2.91	-4.32	-7.90	9.78	18.72		.40	.15ALP	8.26	7.94	
133	190	323	330.38	-4.05	326.33	7.75	14.35	-2.83	-4.03	-8.96	8.29	18.57		.16	.14ALP	8.27	7.95	
133	191	324	331.36	-3.41	327.95	6.46	14.20	-2.62	-3.74	-7.46	9.36	18.42		-.07	.14ALP	8.28	7.95	
133	192	325	331.23	-2.80	328.43	7.60	14.05	-2.54	-3.46	-8.51	7.88	18.28		-.27	.13ALP	8.29	7.96	
133	193	326	332.39	-2.22	330.17	6.32	13.92	-2.33	-3.16	-7.04	8.92	18.12		-.44	.13ALP	8.30	7.96	
133	194	327	332.44	-1.66	330.78	7.46	13.78	-2.24	-2.87	-8.09	7.44	17.96		-.57	.12ALP	8.31	7.97	
133	195	328	333.80	-1.13	332.67	6.18	13.64	-2.04	-2.58	-6.61	8.50	17.81		-.62	.10ALP	8.32	7.97	
133	196	329	334.04	-.62	333.42	7.32	13.51	-1.96	-2.30	-7.66	7.02	17.66		-.53	.07ALP	8.33	7.98	
133	197	330	335.57	UNSTABLE AGAINST FISSION														
133	198	331	336.00	UNSTABLE AGAINST FISSION														
133	199	332	337.71	UNSTABLE AGAINST FISSION														
133	200	333	338.31	UNSTABLE AGAINST FISSION														
133	201	334	340.20	UNSTABLE AGAINST FISSION														
133	202	335	340.99	UNSTABLE AGAINST FISSION														
133	203	336	343.05	UNSTABLE AGAINST FISSION														
133	204	337	344.01	UNSTABLE AGAINST FISSION														
133	205	338	346.24	UNSTABLE AGAINST FISSION														
133	206	339	347.37	UNSTABLE AGAINST FISSION														
133	207	340	349.78	UNSTABLE AGAINST FISSION														
133	208	341	351.08	UNSTABLE AGAINST FISSION														
133	209	342	353.64	UNSTABLE AGAINST FISSION														
133	210	343	355.11	UNSTABLE AGAINST FISSION														
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134	182	316	340.67	-6.47	334.20	10.09	18.90	-2.96	-6.99	-13.98	10.75	16.97		1.02	.15ALP	8.19	7.92	
134	183	317	340.78	-7.16	333.62	8.65	18.74	-2.88	-6.69	-12.46	11.81	16.84		1.30	.16ALP	8.20	7.92	
134	184	318	339.64	-7.88	331.76	9.92	18.58	-2.67	-6.39	-13.52	8.77	16.70		1.60	.16ALP	8.21	7.93	
134	185	319	339.95	-7.09	332.86	6.98	16.90	-2.58	-6.09	-10.49	9.83	18.09		1.28	.16ALP	8.22	7.94	
134	186	320	339.02	-6.33	332.69	8.24	15.22	-2.37	-5.80	-11.54	8.34	19.47		.97	.15ALP	8.23	7.94	
134	187	321	339.53	-5.60	333.93	6.83	15.07	-2.29	-5.50	-10.04	9.39	19.32		.68	.15ALP	8.24	7.95	
134	188	322	338.79	-4.89	333.90	8.10	14.93	-2.07	-5.20	-11.10	7.89	19.16		.41	.15ALP	8.25	7.95	
134	189	323	339.50	-4.21	335.29	6.68	14.78	-1.99	-4.91	-9.60	8.95	19.01		.15	.14ALP	8.26	7.96	
134	190	324	338.96	-3.55	335.41	7.95	14.64	-1.78	-4.62	-10.66	7.46	18.86		-.08	.14ALP	8.28	7.96	
134	191	325	339.86	-2.92	336.94	6.54	14.49	-1.70	-4.32	-9.17	8.52	18.71		-.29	.13ALP	8.29	7.97	
134	192	326	339.52	-2.31	337.21	7.81	14.35	-1.50	-4.04	-10.22	7.04	18.57		-.46	.13ALP	8.30	7.97	
134	193	327	340.61	-1.73	338.88	6.40	14.20	-1.42	-3.75	-8.73	8.10	18.42		-.59	.12ALP	8.31	7.98	
134	194	328	340.46	-1.18	339.28	7.66	14.07	-1.21	-3.46	-9.79	6.61	18.26		-.65	.10ALP	8.32	7.98	
134	195	329	341.73	-.65	341.08	6.27	13.94	-1.13	-3.16	-8.31	7.66	18.10		-.56	.07ALP	8.33	7.99	
134	196	330	341.77	UNSTABLE AGAINST FISSION														
134	197	331	343.22	UNSTABLE AGAINST FISSION														
134	198	332	343.45	UNSTABLE AGAINST FISSION														

Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS	SHELL	DIFF
134	199	333	345.08	UNSTABLE AGAINST FISSION																
134	200	334	345.49	UNSTABLE AGAINST FISSION																
134	201	335	347.30	UNSTABLE AGAINST FISSION																
134	202	336	347.89	UNSTABLE AGAINST FISSION																
134	203	337	349.87	UNSTABLE AGAINST FISSION																
134	204	338	350.64	UNSTABLE AGAINST FISSION																
134	205	339	352.79	UNSTABLE AGAINST FISSION																
134	206	340	353.73	UNSTABLE AGAINST FISSION																
134	207	341	356.06	UNSTABLE AGAINST FISSION																
134	208	342	357.17	UNSTABLE AGAINST FISSION																
134	209	343	359.66	UNSTABLE AGAINST FISSION																
134	210	344	360.93	UNSTABLE AGAINST FISSION																
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135	193	328	350.34	-1.27	349.07	6.61	14.50	-2.91	-4.32	-7.90	9.79	18.70		-.68	.10ALP	8.31	7.99			
135	194	329	350.11	-.72	349.39	7.75	14.36	-2.82	-4.03	-8.96	8.31	18.54		-.60	.07ALP	8.33	8.00			
135	195	330	351.18	UNSTABLE AGAINST FISSION																
135	196	331	351.14	UNSTABLE AGAINST FISSION																
135	197	332	352.39	UNSTABLE AGAINST FISSION																
135	198	333	352.54	UNSTABLE AGAINST FISSION																
135	199	334	353.97	UNSTABLE AGAINST FISSION																
135	200	335	354.30	UNSTABLE AGAINST FISSION																
135	201	336	355.91	UNSTABLE AGAINST FISSION																
135	202	337	356.42	UNSTABLE AGAINST FISSION																
135	203	338	358.20	UNSTABLE AGAINST FISSION																
135	204	339	358.89	UNSTABLE AGAINST FISSION																
135	205	340	360.85	UNSTABLE AGAINST FISSION																
135	206	341	361.71	UNSTABLE AGAINST FISSION																
135	207	342	363.84	UNSTABLE AGAINST FISSION																
135	208	343	364.87	UNSTABLE AGAINST FISSION																
135	209	344	367.17	UNSTABLE AGAINST FISSION																
135	210	345	368.37	UNSTABLE AGAINST FISSION																
XXXXXXXXXX																				
136	186	322	359.61	-5.40	354.21	8.54	15.81	-2.94	-6.95	-12.41	9.21	20.02		.47	.15ALP	8.24	7.97			
136	187	323	359.83	-4.68	355.15	7.13	15.67	-2.86	-6.64	-10.91	10.26	19.87		.19	.14ALP	8.25	7.97			
136	188	324	358.81	-3.97	354.84	8.39	15.51	-2.65	-6.36	-11.96	8.77	19.73		-.06	.14ALP	8.27	7.98			
136	189	325	359.22	-3.30	355.92	6.98	15.38	-2.56	-6.05	-10.47	9.81	19.57		-.28	.14ALP	8.28	7.98			
136	190	326	358.40	-2.64	355.76	8.24	15.22	-2.36	-5.77	-11.51	8.33	19.43		-.47	.13ALP	8.29	7.99			
136	191	327	359.01	-2.02	356.99	6.84	15.08	-2.28	-5.47	-10.03	9.38	19.28		-.62	.12ALP	8.30	7.99			
136	192	328	358.39	-1.42	356.97	8.09	14.93	-2.08	-5.19	-11.08	7.90	19.13		-.70	.11ALP	8.31	8.00			
136	193	329	359.19	-.84	358.35	6.69	14.79	-1.99	-4.90	-9.59	8.96	18.99		-.66	.08ALP	8.32	8.00			
136	194	330	358.76	UNSTABLE AGAINST FISSION																
136	195	331	359.74	UNSTABLE AGAINST FISSION																
136	196	332	359.50	UNSTABLE AGAINST FISSION																
136	197	333	360.67	UNSTABLE AGAINST FISSION																
136	198	334	360.62	UNSTABLE AGAINST FISSION																
136	199	335	361.97	UNSTABLE AGAINST FISSION																
136	200	336	362.11	UNSTABLE AGAINST FISSION																
136	201	337	363.64	UNSTABLE AGAINST FISSION																
136	202	338	363.95	UNSTABLE AGAINST FISSION																
136	203	339	365.66	UNSTABLE AGAINST FISSION																
136	204	340	366.15	UNSTABLE AGAINST FISSION																
136	205	341	368.03	UNSTABLE AGAINST FISSION																
136	206	342	368.70	UNSTABLE AGAINST FISSION																
136	207	343	370.75	UNSTABLE AGAINST FISSION																
136	208	344	371.59	UNSTABLE AGAINST FISSION																
136	209	345	373.81	UNSTABLE AGAINST FISSION																
136	210	346	374.83	UNSTABLE AGAINST FISSION																
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137	194	331	369.03	UNSTABLE AGAINST FISSICN																
137	195	332	369.82	UNSTABLE AGAINST FISSION																
137	196	333	369.50	UNSTABLE AGAINST FISSION																
137	197	334	370.47	UNSTABLE AGAINST FISSION																
137	198	335	370.33	UNSTABLE AGAINST FISSION																
137	199	336	371.49	UNSTABLE AGAINST FISSION																
137	200	337	371.54	UNSTABLE AGAINST FISSION																
137	201	338	372.87	UNSTABLE AGAINST FISSION																
137	202	339	373.11	UNSTABLE AGAINST FISSION																
137	203	340	374.62	UNSTABLE AGAINST FISSION																
137	204	341	375.03	UNSTABLE AGAINST FISSION																
137	205	342	376.72	UNSTABLE AGAINST FISSION																
137	206	343	377.31	UNSTABLE AGAINST FISSION																
137	207	344	379.16	UNSTABLE AGAINST FISSION																
137	208	345	379.93	UNSTABLE AGAINST FISSION																
137	209	346	381.95	UNSTABLE AGAINST FISSION																
137	210	347	382.89	UNSTABLE AGAINST FISSION																
XXXXXXXXXX																				
138	190	328	379.09	-1.85	377.24	8.53	15.81	-2.93	-6.90	-12.37	9.19	19.98		-.74	.11ALP	8.30	8.02			
138	191	329	379.41	-1.22	378.19	7.13	15.65	-2.85	-6.62	-10.88	10.25	19.84		-.77	.10ALP	8.31	8.02			
138	192	330	378.50	-.62	377.88	8.38	15.51	-2.64	-6.33	-11.92	8.77	19.70		-.59	.05ALP	8.32	8.03			
138	193	331	379.01	UNSTABLE AGAINST FISSION																
138	194	332	378.30	UNSTABLE AGAINST FISSION																
138	195	333	379.00	UNSTABLE AGAINST FISSION																

Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS SHELL	DIFF
138	196	334	378.49	UNSTABLE AGAINST FISSION															
138	197	335	379.37	UNSTABLE AGAINST FISSION															
138	198	336	379.05	UNSTABLE AGAINST FISSION															
138	199	337	380.12	UNSTABLE AGAINST FISSION															
138	200	338	379.98	UNSTABLE AGAINST FISSION															
138	201	339	381.23	UNSTABLE AGAINST FISSION															
138	202	340	381.27	UNSTABLE AGAINST FISSION															
138	203	341	382.70	UNSTABLE AGAINST FISSION															
138	204	342	382.92	UNSTABLE AGAINST FISSION															
138	205	343	384.53	UNSTABLE AGAINST FISSION															
138	206	344	384.93	UNSTABLE AGAINST FISSION															
138	207	345	386.71	UNSTABLE AGAINST FISSION															
138	208	346	387.28	UNSTABLE AGAINST FISSION															
138	209	347	389.23	UNSTABLE AGAINST FISSION															
138	210	348	389.97	UNSTABLE AGAINST FISSION															

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Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS SHELL	DIFF
139	196	335	389.10	UNSTABLE AGAINST FISSION															
139	197	336	389.79	UNSTABLE AGAINST FISSION															
139	198	337	389.38	UNSTABLE AGAINST FISSION															
139	199	338	390.25	UNSTABLE AGAINST FISSION															
139	201	340	391.08	UNSTABLE AGAINST FISSION															
139	202	341	391.04	UNSTABLE AGAINST FISSION															
139	203	342	392.28	UNSTABLE AGAINST FISSION															
139	204	343	392.42	UNSTABLE AGAINST FISSION															
139	205	344	393.83	UNSTABLE AGAINST FISSION															
139	206	345	394.15	UNSTABLE AGAINST FISSION															
139	207	346	395.74	UNSTABLE AGAINST FISSION															
139	208	347	396.23	UNSTABLE AGAINST FISSION															
139	209	348	397.99	UNSTABLE AGAINST FISSION															
139	210	349	398.66	UNSTABLE AGAINST FISSION															

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Z	N	A	MASS	SHELL	MASS	BN	B2N	BZ	B2Z	BETA	EL-CAP	ALPHA	DEF	MASS	DEF I	NEU	PRO	MASS SHELL	DIFF
140	192	332	399.85	UNSTABLE AGAINST FISSION															
140	193	333	400.07	UNSTABLE AGAINST FISSION															
140	194	334	399.08	UNSTABLE AGAINST FISSION															
140	195	335	399.50	UNSTABLE AGAINST FISSION															
140	196	336	398.71	UNSTABLE AGAINST FISSION															
140	197	337	399.31	UNSTABLE AGAINST FISSION															
140	198	338	398.71	UNSTABLE AGAINST FISSION															
140	199	339	399.50	UNSTABLE AGAINST FISSION															
140	200	340	399.08	UNSTABLE AGAINST FISSION															
140	201	341	400.06	UNSTABLE AGAINST FISSION															
140	202	342	399.83	UNSTABLE AGAINST FISSION															
140	203	343	400.98	UNSTABLE AGAINST FISSION															
140	204	344	400.93	UNSTABLE AGAINST FISSION															
140	205	345	402.27	UNSTABLE AGAINST FISSION															
140	206	346	402.39	UNSTABLE AGAINST FISSION															
140	207	347	403.90	UNSTABLE AGAINST FISSION															
140	208	348	404.21	UNSTABLE AGAINST FISSION															
140	209	349	405.89	UNSTABLE AGAINST FISSION															
140	210	350	406.37	UNSTABLE AGAINST FISSION															

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