Ref.TH.2605-CERN

THERMODYNAMICS OF NUCLEAR MATTER FROM THE STATISTICAL BOOTSTRAP MODEL

R. Hagedorn, I. Montvay*) and J. Rafelski

CERN -- Geneva

ABSTRACT

We study the properties of nuclear matter within the framework of a modified and generalized statistical bootstrap model in which the volume of a fireball grows with its mass. We find that the such described nuclear matter can exist in two phases. In particular we consider in a numerical example the high temperature ($T \lesssim T_0 \approx 150$ MeV) regime of the gaseous phase with a density of less than ~ 0.75 of normal nuclear density.

Lecture given at the
Workshop on Theoretical Physics
"Hadronic Matter at Extreme Energy Density",
Erice -- October 13-21, 1978

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*) Present address: Fakultät für Physik, Universität Bielefeld

Ref.TH.2605
16 December 1978

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