

Homogeneous studies of transiting extrasolar planets. IV. Thirty systems with space-based light curves (Appendix)

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ABSTRACT

I calculate the physical properties of 32 transiting extrasolar planet and brown-dwarf systems from existing photometric observations and measured spectroscopic parameters. The systems studied include fifteen observed by the CoRoT satellite, ten by *Kepler* and five by the *Deep Impact* spacecraft. Inclusion of the objects studied in previous papers leads to a sample of 58 transiting systems with homogeneously measured properties. The *Kepler* data include observations from Quarter 2, and my analyses of several of the systems are the first to be based on short-cadence data from this satellite.

The light curves are modelled using the JKTEBOP code, with attention paid to the treatment of limb darkening, contaminating light, orbital eccentricity, correlated noise, and numerical integration over long exposure times. The physical properties are derived from the light curve parameters, spectroscopic characteristics of the host star, and constraints from five sets of theoretical stellar model predictions. An alternative approach using a calibration from eclipsing binary star systems is explored and found to give comparable results whilst imposing a much smaller computational burden.

My results are in good agreement with published properties for most of the transiting systems, but discrepancies are identified for CoRoT-5, CoRoT-8, CoRoT-13, Kepler-5 and Kepler-7. Many of the errorbars quoted in the literature are underestimated. Refined orbital ephemerides are given for CoRoT-8 and for the *Kepler* planets. Asteroseismic constraints on the density of the host stars are in good agreement with the photometric equivalents for HD 17156 and TrES-2, but not for HAT-P-7 and HAT-P-11.

Complete error budgets are generated for each transiting system, allowing identification of the observations best-suited to improve measurements of their physical properties. Whilst most systems would benefit from further photometry and spectroscopy, HD 17156, HD 80606, HAT-P-7 and TrES-2 are now extremely well characterised. HAT-P-11 is an exceptional candidate for studying starspots. The orbital ephemerides of some transiting systems are becoming uncertain and they should be re-observed in the near future.

The primary results from the current work and from previous papers in the series have been placed in an online catalogue, from where they can be obtained in a range of formats for reference and further study. TEPcat is available at <http://www.astro.keele.ac.uk/~jkt/tepcat/>

Key words: stars: planetary systems — stars: binaries: eclipsing — stars: binaries: spectroscopic — stars: fundamental parameters

APPENDIX A: FULL RESULTS FOR THE TRANSITING PLANETARY SYSTEMS ANALYSED IN THIS WORK

The tables in this Appendix contain the detailed results of the analysis process for the transiting extrasolar planetary systems (TEPs) studied in this work. For each TEP this includes:

- One table for each light curve showing the individual solutions (JKTEBOP analysis).
- One table for each TEP containing the final results for each light curve and comparison to published values.
- One table for each TEP with the individual physical properties calculated using the different sets of stellar evolutionary model pre-

dictions (JKTABSDIM analysis), the final physical properties from this work and comparison to published values.

Note that whilst all the results are best fits to the relevant data, some parameters are unphysical (for example the limb darkening coefficients imply that the limb of the star produces a negative amount of light). In these cases the unphysical results have *not* been used but are retained in the tables for completeness.

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Table A1. Parameters of the JKTEBOP best fits of the CoRoT-1 32s-sampled light curve from Barge et al. (2008), using different approaches to LD. The light curve contains 159 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.2313 ± 0.0033	0.2316 ± 0.0025	0.2311 ± 0.0027	0.2327 ± 0.0026	0.2380 ± 0.0022
k	0.13858 ± 0.00065	0.13887 ± 0.00042	0.13842 ± 0.00051	0.13929 ± 0.00043	0.14185 ± 0.00036
i (deg.)	85.36 ± 0.43	85.29 ± 0.31	85.41 ± 0.35	85.11 ± 0.30	84.23 ± 0.23
u_A	0.61 fixed	0.40 fixed	0.25 fixed	0.70 fixed	0.40 fixed
v_A		0.26 fixed	0.55 fixed	0.25 fixed	0.13 fixed
r_A	0.2032 ± 0.0027	0.2033 ± 0.0021	0.2030 ± 0.0023	0.2043 ± 0.0022	0.2084 ± 0.0019
r_B	0.02816 ± 0.00051	0.02824 ± 0.00036	0.02810 ± 0.00041	0.02845 ± 0.00038	0.02957 ± 0.00034
σ (mmag)	0.4369	0.3803	0.3996	0.3794	0.3835
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.2360 ± 0.0023	0.2345 ± 0.0025	0.2355 ± 0.0024	0.2350 ± 0.0026	0.2353 ± 0.0025
k	0.14157 ± 0.00053	0.14009 ± 0.00068	0.14064 ± 0.00057	0.14032 ± 0.00073	0.14074 ± 0.00069
i (deg.)	84.47 ± 0.27	84.80 ± 0.32	84.65 ± 0.29	84.73 ± 0.33	84.64 ± 0.31
u_A	0.484 ± 0.017	0.353 ± 0.036	0.163 ± 0.042	0.658 ± 0.050	0.453 ± 0.024
v_A		0.26 perturbed	0.55 perturbed	0.25 perturbed	0.13 perturbed
r_A	0.2067 ± 0.0020	0.2057 ± 0.0021	0.2064 ± 0.0020	0.2061 ± 0.0022	0.2063 ± 0.0021
r_B	0.02927 ± 0.00037	0.02882 ± 0.00041	0.02903 ± 0.00038	0.02892 ± 0.00043	0.02904 ± 0.00040
σ (mmag)	0.3752	0.3739	0.3740	0.3738	0.3740
Fitting for both LD coefficients					
$r_A + r_B$	0.2360 ± 0.0025	0.2349 ± 0.0028	0.2352 ± 0.0025	0.2350 ± 0.0026	0.2351 ± 0.0026
k	0.1416 ± 0.0005	0.1405 ± 0.0011	0.1403 ± 0.0015	0.1403 ± 0.0013	0.1404 ± 0.0015
i (deg.)	84.47 ± 0.29	84.71 ± 0.38	84.72 ± 0.38	84.73 ± 0.38	84.72 ± 0.44
u_A	0.484 ± 0.017	0.384 ± 0.085	0.046 ± 0.442	0.657 ± 0.163	0.442 ± 0.042
v_A		0.19 ± 0.17	0.75 ± 0.77	0.25 ± 0.23	0.18 ± 0.19
r_A	0.2067 ± 0.0021	0.2060 ± 0.0023	0.2063 ± 0.0022	0.2061 ± 0.0022	0.2061 ± 0.0021
r_B	0.02927 ± 0.00040	0.02894 ± 0.00050	0.02893 ± 0.00048	0.02892 ± 0.00049	0.02894 ± 0.00055
σ (mmag)	0.3752	0.3737	0.3739	0.3738	0.3740

Table A2. Parameters of the JKTEBOP best fits of the CoRoT-1 512s-sampled light curve from Barge et al. (2008), using different approaches to LD. The light curve contains 539 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.2379 ± 0.0045	0.2370 ± 0.0044	0.2368 ± 0.0044	0.2381 ± 0.0044	0.2428 ± 0.0037
k	0.14220 ± 0.00089	0.14217 ± 0.00073	0.14183 ± 0.00080	0.14259 ± 0.00073	0.14505 ± 0.00056
i (deg.)	84.71 ± 0.50	84.75 ± 0.48	84.84 ± 0.51	84.60 ± 0.48	83.83 ± 0.36
u_A	0.61 fixed	0.40 fixed	0.25 fixed	0.70 fixed	0.40 fixed
v_A		0.26 fixed	0.55 fixed	0.25 fixed	0.13 fixed
T_0	524.6185 ± 0.0038	524.6188 ± 0.0038	524.6189 ± 0.0038	524.6207 ± 0.0037	524.6195 ± 0.0036
r_A	0.2083 ± 0.0038	0.2075 ± 0.0037	0.2074 ± 0.0038	0.2083 ± 0.0037	0.2120 ± 0.0031
r_b	0.02962 ± 0.00070	0.02950 ± 0.00066	0.02941 ± 0.00068	0.02971 ± 0.00067	0.03075 ± 0.00056
σ (mmag)	0.8986	0.8796	0.8857	0.8786	0.8787
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.2404 ± 0.0040	0.2398 ± 0.0045	0.2404 ± 0.0042	0.2400 ± 0.0042	0.2402 ± 0.0042
k	0.14479 ± 0.00084	0.14343 ± 0.00111	0.14392 ± 0.00088	0.14361 ± 0.00102	0.14401 ± 0.00098
i (deg.)	84.09 ± 0.44	84.31 ± 0.53	84.19 ± 0.47	84.27 ± 0.50	84.20 ± 0.48
u_A	0.483 ± 0.025	0.346 ± 0.041	0.160 ± 0.047	0.655 ± 0.054	0.451 ± 0.033
v_A		0.26 perturbed	0.55 perturbed	0.25 perturbed	0.13 perturbed
T_0	524.6195 ± 0.0035	524.6206 ± 0.0037	524.6206 ± 0.0037	524.6204 ± 0.0035	524.6203 ± 0.0039
r_A	0.2100 ± 0.0034	0.2097 ± 0.0038	0.2102 ± 0.0035	0.2099 ± 0.0035	0.2100 ± 0.0036
r_b	0.03041 ± 0.00063	0.03008 ± 0.00074	0.03025 ± 0.00067	0.03014 ± 0.00068	0.03024 ± 0.00068
σ (mmag)	0.8750	0.8768	0.8759	0.8762	0.8758
Fitting for both LD coefficients					
$r_A + r_b$	0.2404 ± 0.0041	0.2411 ± 0.0044	0.2412 ± 0.0044	0.2412 ± 0.0044	0.2413 ± 0.0043
k	0.1448 ± 0.0009	0.1455 ± 0.0018	0.1459 ± 0.0020	0.1458 ± 0.0019	0.1458 ± 0.0019
i (deg.)	84.09 ± 0.44	83.95 ± 0.53	83.89 ± 0.53	83.92 ± 0.54	83.90 ± 0.55
u_A	0.483 ± 0.025	0.558 ± 0.156	0.886 ± 0.591	0.351 ± 0.242	0.528 ± 0.076
v_A		-0.14 ± 0.28	-0.68 ± 1.00	-0.20 ± 0.37	-0.16 ± 0.27
T_0	524.6195 ± 0.0038	524.6210 ± 0.0036	524.6202 ± 0.0036	524.6201 ± 0.0037	524.6199 ± 0.0036
r_A	0.2100 ± 0.0035	0.2105 ± 0.0036	0.2105 ± 0.0036	0.2105 ± 0.0035	0.2106 ± 0.0035
r_b	0.03041 ± 0.00063	0.03063 ± 0.00081	0.03072 ± 0.00083	0.03068 ± 0.00084	0.03071 ± 0.00084
σ (mmag)	0.8750	0.8750	0.8747	0.8748	0.8747

Table A3. Parameters of the JKTEBOP best fits of the CoRoT-1 *R*-band light curve from Gillon et al. (2009), using different approaches to LD. T_0 is given as HJD – 2454000.0. The light curve contains 103 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.2280 ± 0.0042	0.2231 ± 0.0039	0.2279 ± 0.0041	0.2268 ± 0.0043	0.2350 ± 0.0037
k	0.13527 ± 0.00085	0.13425 ± 0.00067	0.13536 ± 0.00071	0.13514 ± 0.00075	0.13864 ± 0.00055
i (deg.)	85.60 ± 0.59	86.41 ± 0.66	85.62 ± 0.57	85.79 ± 0.61	84.42 ± 0.40
u_A	0.55 fixed	0.35 fixed	0.15 fixed	0.68 fixed	0.35 fixed
v_A		0.30 fixed	0.60 fixed	0.17 fixed	0.10 fixed
T_0	524.623155 ± 0.000087	524.623135 ± 0.000089	524.623135 ± 0.000087	524.623132 ± 0.000090	524.623100 ± 0.000086
r_A	0.2008 ± 0.0036	0.1967 ± 0.0033	0.2007 ± 0.0034	0.1998 ± 0.0037	0.2064 ± 0.0032
r_B	0.02717 ± 0.00065	0.02641 ± 0.00057	0.02717 ± 0.00060	0.02700 ± 0.00064	0.02861 ± 0.00053
σ (mmag)	0.7066	0.6325	0.6474	0.6361	0.5857
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.2382 ± 0.0035	0.2359 ± 0.0038	0.2375 ± 0.0038	0.2370 ± 0.0037	0.2373 ± 0.0037
k	0.13997 ± 0.00066	0.13857 ± 0.00078	0.13919 ± 0.00070	0.13893 ± 0.00073	0.13943 ± 0.00076
i (deg.)	83.94 ± 0.38	84.32 ± 0.45	84.10 ± 0.42	84.18 ± 0.42	84.09 ± 0.42
u_A	0.333 ± 0.027	0.172 ± 0.047	-0.025 ± 0.046	0.512 ± 0.052	0.306 ± 0.033
v_A		0.30 perturbed	0.60 perturbed	0.27 perturbed	0.10 perturbed
T_0	524.623096 ± 0.000086	524.623094 ± 0.000085	524.623095 ± 0.000089	524.623095 ± 0.000089	524.623094 ± 0.000088
r_A	0.2089 ± 0.0029	0.2072 ± 0.0033	0.2085 ± 0.0032	0.2081 ± 0.0032	0.2083 ± 0.0032
r_B	0.02924 ± 0.00053	0.02871 ± 0.00059	0.02902 ± 0.00056	0.02891 ± 0.00056	0.02904 ± 0.00057
σ (mmag)	0.5844	0.5767	0.5803	0.5788	0.5814
Fitting for both LD coefficients					
$r_A + r_B$	0.2382 ± 0.0037	0.2322 ± 0.0051	0.2416 ± 0.0074	0.2323 ± 0.0050	0.2332 ± 0.0051
k	0.1400 ± 0.0007	0.1363 ± 0.0021	0.1286 ± 0.0022	0.1357 ± 0.0029	0.1363 ± 0.0034
i (deg.)	83.94 ± 0.40	85.02 ± 0.82	85.25 ± 0.68	85.13 ± 0.79	84.94 ± 0.75
u_A	0.333 ± 0.027	-0.007 ± 0.126	-3.279 ± 0.725	1.000 ± 0.396	0.202 ± 0.069
v_A		0.70 ± 0.29	6.50 ± 1.27	0.92 ± 0.49	0.63 ± 0.46
T_0	524.623096 ± 0.000087	524.623098 ± 0.000092	524.623097 ± 0.000083	524.623097 ± 0.000088	524.623095 ± 0.000093
r_A	0.2089 ± 0.0032	0.2043 ± 0.0042	0.2141 ± 0.0068	0.2045 ± 0.0043	0.2053 ± 0.0042
r_B	0.02924 ± 0.00054	0.02786 ± 0.00089	0.02753 ± 0.00070	0.02775 ± 0.00088	0.02797 ± 0.00086
σ (mmag)	0.5844	0.5738	0.5716	0.5754	0.5759

Table A4. Parameters of the JKTEBOP best fits of the CoRoT-1 *B*-band light curve from Pont et al. (2010), using different approaches to LD. T_0 is given as HJD – 2454000.0. The light curve contains 19 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.2200 ± 0.0072	0.2207 ± 0.0065	0.2204 ± 0.0068	0.2332 ± 0.0064	0.2256 ± 0.0065
k	0.1326 ± 0.0018	0.1325 ± 0.0015	0.1321 ± 0.0017	0.1391 ± 0.0012	0.1363 ± 0.0014
i (deg.)	86.52 ± 1.21	86.46 ± 1.03	86.56 ± 1.11	84.25 ± 0.65	85.34 ± 0.81
u_A	0.75 fixed	0.65 fixed	0.55 fixed	0.67 fixed	0.60 fixed
v_A		0.16 fixed	0.34 fixed	0.27 fixed	0.08 fixed
T_0	524.62309 ± 0.00017	524.62310 ± 0.00016	524.62309 ± 0.00017	524.62310 ± 0.00018	524.62310 ± 0.00017
r_A	0.1942 ± 0.0060	0.1949 ± 0.0055	0.1946 ± 0.0057	0.2047 ± 0.0054	0.1985 ± 0.0056
r_B	0.02575 ± 0.00116	0.02582 ± 0.00099	0.02572 ± 0.00106	0.02848 ± 0.00096	0.02706 ± 0.00101
σ (mmag)	0.5359	0.5201	0.5282	0.6727	0.5454
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.2223 ± 0.0073	0.2210 ± 0.0075	0.2220 ± 0.0075	0.2214 ± 0.0074	0.2220 ± 0.0075
k	0.1344 ± 0.0024	0.1327 ± 0.0028	0.1335 ± 0.0026	0.1320 ± 0.0030	0.1336 ± 0.0027
i (deg.)	86.0 ± 1.1	86.4 ± 1.4	86.1 ± 1.3	86.5 ± 1.6	86.1 ± 1.3
u_A	0.697 ± 0.055	0.644 ± 0.064	0.512 ± 0.064	0.923 ± 0.089	0.690 ± 0.052
v_A		0.16 perturbed	0.34 perturbed	0.27 perturbed	0.08 perturbed
T_0	524.62309 ± 0.00016	524.62310 ± 0.00018	524.62309 ± 0.00018	524.62310 ± 0.00017	524.62310 ± 0.00018
r_A	0.1960 ± 0.0060	0.1951 ± 0.0062	0.1958 ± 0.0062	0.1955 ± 0.0061	0.1958 ± 0.0063
r_B	0.0263 ± 0.0012	0.0259 ± 0.0013	0.0261 ± 0.0013	0.0258 ± 0.0014	0.0262 ± 0.0013
σ (mmag)	0.5246	0.5197	0.5227	0.5199	0.5232

Table A5. Final parameters of the fit to the light curves of CoRoT-1 from the JKTEBOP analysis, compared to those found by other studies. Quantities without quoted uncertainties were not given by those authors but have been calculated from other parameters which were.

	This work (CoRoT 32 s)	This work (CoRoT 512 s)	This work (FOR2 R)	This work (FOR2 B)	This work (final)
$r_A + r_b$	0.2351 ± 0.0031	0.2401 ± 0.0050	0.2369 ± 0.0050	0.2216 ± 0.0121	0.2366 ± 0.0023
k	0.1404 ± 0.0017	0.1438 ± 0.0012	0.1390 ± 0.0010	0.1330 ± 0.0047	0.1409 ± 0.0012
i ($^\circ$)	84.72 ± 0.48	84.24 ± 0.58	84.17 ± 0.57	86.3 ± 2.6	84.42 ± 0.31
r_A	0.2061 ± 0.0026	0.2099 ± 0.0042	0.2080 ± 0.0042	0.1956 ± 0.0100	0.2073 ± 0.0020
r_b	0.02893 ± 0.00060	0.03018 ± 0.00082	0.02892 ± 0.00076	0.0260 ± 0.0022	0.02924 ± 0.00041
	Barge et al. (2008)	Bean (2009)	Gillon et al. (2009)	Pont et al. (2010)	
$r_A + r_b$	0.2315	0.2407	0.2166	0.2303	
k	0.1388 ± 0.0021	0.1433 ± 0.0010	$0.13806^{+0.00072}_{-0.00146}$	0.1334	
i ($^\circ$)	85.1 ± 0.5	83.88 ± 0.29	$85.66^{+0.62}_{-0.48}$	86.7 ± 0.6	
r_A	0.2033 ± 0.0033	0.2105 ± 0.0020	0.1899	0.2032	
r_b	0.02822	0.03016	0.02675	0.02710	

Table A6. Derived physical properties of the CoRoT-1 system. The upper part of the table contains the individual results from this work; in each case $g_b = 10.65 \pm 0.69 \text{ m s}^{-2}$, $\rho_A = 0.660 \pm 0.019 \rho_\odot$ and $T'_{\text{eq}} = 1915 \pm 49 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y^2 models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s^{-1})	185.5 ± 7.7	182.7 ± 5.5	182.8 ± 7.0	180.6 ± 6.1	181.8 ± 6.7	180.8 ± 6.9
M_A (M_\odot)	1.014 ± 0.126	0.969 ± 0.088	0.971 ± 0.112	0.937 ± 0.096	0.955 ± 0.106	0.939 ± 0.107
R_A (R_\odot)	1.154 ± 0.049	1.136 ± 0.036	1.137 ± 0.045	1.124 ± 0.040	1.131 ± 0.043	1.125 ± 0.044
$\log g_A$ (cgs)	4.320 ± 0.020	4.314 ± 0.015	4.314 ± 0.019	4.309 ± 0.017	4.311 ± 0.018	4.309 ± 0.018
M_b (M_{Jup})	1.076 ± 0.109	1.044 ± 0.088	1.046 ± 0.101	1.021 ± 0.092	1.034 ± 0.098	1.023 ± 0.098
R_b (R_{Jup})	1.583 ± 0.069	1.559 ± 0.052	1.561 ± 0.064	1.542 ± 0.057	1.552 ± 0.061	1.543 ± 0.062
ρ_b (ρ_{Jup})	0.254 ± 0.021	0.258 ± 0.020	0.257 ± 0.021	0.260 ± 0.021	0.259 ± 0.021	0.260 ± 0.021
Θ	0.0347 ± 0.0025	0.0352 ± 0.0024	0.0352 ± 0.0025	0.0356 ± 0.0025	0.0354 ± 0.0025	0.0356 ± 0.0025
a (AU)	0.02587 ± 0.00107	0.02549 ± 0.00076	0.02551 ± 0.00098	0.02520 ± 0.00086	0.02536 ± 0.00094	0.02522 ± 0.00096
Age (Gyr)		$8.4^{+1.5}_{-3.8}$	$7.1^{+3.2}_{-3.1}$	$8.2^{+2.0}_{-2.8}$	$7.4^{+4.0}_{-2.9}$	$7.7^{+3.8}_{-2.8}$
	This work (final)	Barge et al. (2008)	Bean (2009)	Gillon et al. (2009)	Pont et al. (2010)	
M_A (M_\odot)	$0.95 \pm 0.11 \pm 0.02$	0.95 ± 0.15		$1.01^{+0.13}_{-0.22}$	1.03 ± 0.06	
R_A (R_\odot)	$1.131 \pm 0.045 \pm 0.007$	1.11 ± 0.05		$1.057^{+0.055}_{-0.094}$	1.14 ± 0.03	
$\log g_A$ (cgs)	$4.311 \pm 0.019 \pm 0.003$					
ρ_A (ρ_\odot)	0.660 ± 0.019			$0.86^{+0.13}_{-0.08}$		
M_b (M_{Jup})	$1.03 \pm 0.10 \pm 0.01$	1.03 ± 0.12		$1.07^{+0.13}_{-0.18}$	1.13 ± 0.07	
R_b (R_{Jup})	$1.551 \pm 0.064 \pm 0.010$	1.49 ± 0.08	1.54 ± 0.07	$1.45^{+0.07}_{-0.13}$	1.48 ± 0.06	
g_b (m s^{-1})	10.65 ± 0.69					
ρ_b (ρ_{Jup})	$0.259 \pm 0.021 \pm 0.002$	0.29 ± 0.04		$0.350^{+0.077}_{-0.042}$		
T'_{eq} (K)	1915 ± 49	1898 ± 50				
Θ	$0.0354 \pm 0.0025 \pm 0.0002$					
a (AU)	$0.02536 \pm 0.00098 \pm 0.00016$			$0.0259^{+0.0011}_{-0.0020}$	0.0261 ± 0.0005	
Age (Gyr)	$7.8^{+4.0}_{-3.8} \pm 0.7$				7 ± 6	

Table A7. Parameters of the JKTEBOP best fits of the 32s-sampled CoRoT light curve of CoRoT-2, using different approaches to LD. The light curve contains 254 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.1570 ± 0.0015	0.1653 ± 0.0016	0.1587 ± 0.0014	0.1602 ± 0.0014	0.1760 ± 0.0017
k	0.16370 ± 0.00031	0.16312 ± 0.00030	0.16294 ± 0.00029	0.16288 ± 0.00030	0.16542 ± 0.00028
i (deg.)	86.792 ± 0.090	87.605 ± 0.184	86.996 ± 0.099	87.136 ± 0.106	88.551 ± 0.456
u_A	0.61 fixed	0.41 fixed	0.30 fixed	0.73 fixed	0.41 fixed
v_A		0.25 fixed	0.50 fixed	0.22 fixed	0.12 fixed
T_0	0.00410 ± 0.00010	0.00202 ± 0.00023	0.00366 ± 0.00012	0.00327 ± 0.00014	-0.00052 ± 0.00032
r_A	0.1349 ± 0.0013	0.1421 ± 0.0014	0.1365 ± 0.0012	0.1378 ± 0.0012	0.1510 ± 0.0015
r_b	0.02209 ± 0.00021	0.02318 ± 0.00022	0.02224 ± 0.00020	0.02244 ± 0.00020	0.02498 ± 0.00025
σ (mmag)	0.2252	0.1695	0.2058	0.1940	0.1300
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.1734 ± 0.0020	0.1764 ± 0.0030	0.1750 ± 0.0024	0.1755 ± 0.0024	0.1750 ± 0.0024
k	0.16625 ± 0.00029	0.16442 ± 0.00062	0.16524 ± 0.00032	0.16493 ± 0.00050	0.16535 ± 0.00055
i (deg.)	87.71 ± 0.23	89.96 ± 1.04	88.26 ± 0.42	88.52 ± 0.73	88.24 ± 0.51
u_A	0.445 ± 0.007	0.330 ± 0.027	0.155 ± 0.038	0.603 ± 0.051	0.417 ± 0.016
v_A		0.25 perturbed	0.50 perturbed	0.22 perturbed	0.12 perturbed
T_0	0.00036 ± 0.00039	-0.00084 ± 0.00082	-0.00014 ± 0.00052	-0.00031 ± 0.00060	-0.00013 ± 0.00055
r_A	0.1487 ± 0.0017	0.1515 ± 0.0025	0.1502 ± 0.0021	0.1506 ± 0.0021	0.1502 ± 0.0021
r_b	0.02472 ± 0.00029	0.02491 ± 0.00044	0.02482 ± 0.00035	0.02484 ± 0.00034	0.02483 ± 0.00033
σ (mmag)	0.1288	0.1396	0.1306	0.1329	0.1302
Fitting for both LD coefficients					
$r_A + r_b$	0.1734 ± 0.0021	0.1716 ± 0.0024	0.1726 ± 0.0022	0.1726 ± 0.0022	0.1729 ± 0.0022
k	0.16625 ± 0.00029	0.16688 ± 0.00046	0.16650 ± 0.00050	0.16657 ± 0.00046	0.16643 ± 0.00047
i (deg.)	87.71 ± 0.23	87.23 ± 0.28	87.53 ± 0.31	87.49 ± 0.28	87.58 ± 0.30
u_A	0.445 ± 0.008	0.497 ± 0.035	0.517 ± 0.128	0.410 ± 0.042	0.452 ± 0.017
v_A		-0.091 ± 0.058	-0.120 ± 0.213	-0.053 ± 0.062	-0.023 ± 0.053
T_0	0.00036 ± 0.00039	0.00105 ± 0.00049	0.00061 ± 0.00050	0.00064 ± 0.00047	0.00053 ± 0.00046
r_A	0.1487 ± 0.0018	0.1470 ± 0.0021	0.1479 ± 0.0019	0.1480 ± 0.0019	0.1482 ± 0.0019
r_b	0.02472 ± 0.00031	0.02454 ± 0.00032	0.02463 ± 0.00030	0.02465 ± 0.00030	0.02467 ± 0.00031
σ (mmag)	0.1288	0.1284	0.1288	0.1287	0.1288

Table A8. Final parameters of the fit to the light curves of CoRoT-2 from the JKTEBOP analysis, compared to those found by other studies. Quantities without quoted uncertainties were not given by those authors but have been calculated from other parameters which were.

	This work	Czesla et al. (2009)	Rauer et al. (2010)	Gillon et al. (2010a)
$r_A + r_b$	0.1724 ± 0.0026		0.1838	0.1757
k	0.16660 ± 0.00055	0.172 ± 0.001	0.1633 ± 0.0031	0.1657 ± 0.0003
i ($^\circ$)	87.45 ± 0.34	87.7 ± 0.2	85.23 ± 1.37	$88.08^{+0.18}_{-0.16}$
r_A	0.1478 ± 0.0023		0.158 ± 0.012	0.1506
r_b	0.02462 ± 0.00035		0.02580	0.02504

Table A9. Derived physical properties of the CoRoT-2 system. The upper part of the table contains the individual results from this work; in each case $g_b = 41.5 \pm 1.7 \text{ m s}^{-2}$, $\rho_A = 1.362 \pm 0.064 \rho_\odot$ and $T'_{\text{eq}} = 1548 \pm 22 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	176.49 ± 4.08	179.26 ± 0.91	175.41 ± 1.61	177.66 ± 1.75	177.67 ± 1.21	176.96 ± 2.22
M_A (M _⊙)	1.002 ± 0.069	1.050 ± 0.016	0.984 ± 0.027	1.022 ± 0.030	1.023 ± 0.021	1.010 ± 0.038
R_A (R _⊙)	0.903 ± 0.026	0.917 ± 0.018	0.897 ± 0.020	0.909 ± 0.017	0.909 ± 0.017	0.905 ± 0.016
log g_A (cgs)	4.528 ± 0.016	4.535 ± 0.012	4.525 ± 0.012	4.531 ± 0.014	4.531 ± 0.013	4.529 ± 0.015
M_b (M _{Jup})	3.59 ± 0.20	3.70 ± 0.12	3.54 ± 0.12	3.63 ± 0.13	3.63 ± 0.12	3.61 ± 0.14
R_b (R _{Jup})	1.463 ± 0.040	1.486 ± 0.022	1.454 ± 0.025	1.473 ± 0.026	1.473 ± 0.024	1.467 ± 0.028
ρ_b (ρ _{Jup})	1.071 ± 0.061	1.055 ± 0.055	1.078 ± 0.057	1.064 ± 0.057	1.064 ± 0.056	1.068 ± 0.057
Θ	0.1388 ± 0.0056	0.1366 ± 0.0046	0.1396 ± 0.0048	0.1379 ± 0.0048	0.1379 ± 0.0047	0.1384 ± 0.0049
a (AU)	0.02840 ± 0.00065	0.02884 ± 0.00015	0.02822 ± 0.00026	0.02859 ± 0.00028	0.02859 ± 0.00019	0.02847 ± 0.00036
Age (Gyr)		0.0 ^{+0.0} _{-0.0}	2.1 ^{+0.0} _{-2.1}	0.2 ^{+1.9} _{-0.3}	0.0 ^{+0.8} _{-0.0}	0.7 ^{+1.4} _{-1.1}
	This work (final)	Alonso et al. (2008)	Vereš et al. (2009)	Gillon et al. (2010a)	Chavero et al. (2010)	
M_A (M _⊙)	1.018 ± 0.038 ± 0.034	0.97 ± 0.06		0.96 ± 0.08		
R_A (R _⊙)	0.907 ± 0.020 ± 0.010	0.902 ± 0.018		0.906 ^{+0.026} _{-0.027}		
log g_A (cgs)	4.530 ± 0.015 ± 0.005					
ρ_A (ρ _⊙)	1.362 ± 0.064			1.288 ^{+0.035} _{-0.033}		
M_b (M _{Jup})	3.62 ± 0.14 ± 0.08	3.31 ± 0.16				
R_b (R _{Jup})	1.470 ± 0.028 ± 0.016	1.465 ± 0.029	1.318 ± 0.158			
g_b (m s ⁻¹)	41.5 ± 1.7					
ρ_b (ρ _{Jup})	1.066 ± 0.057 ± 0.012	0.99 ± 0.03		1.105 ^{+0.060} _{-0.056}		
T'_{eq} (K)	1548 ± 22	1537 ± 35				
Θ	0.1381 ± 0.0049 ± 0.0016					
a (AU)	0.02854 ± 0.00036 ± 0.00032			0.02798 ^{+0.00076} _{-0.00080}		
Age (Gyr)	0.6 ^{+1.9} _{-2.1} ^{+1.5} _{-0.6}			2.7 ^{+3.2} _{-2.7}	0.12	

Table A10. Parameters of the JKTEBOP best fits of the CoRoT 32s-sampled light curve of CoRoT-3, using different approaches to LD. The light curve contains 477 phase-binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.1338 ± 0.0074	0.1272 ± 0.0069	0.1308 ± 0.0068	0.1296 ± 0.0067	0.1338 ± 0.0061
k	0.06646 ± 0.00103	0.06548 ± 0.00078	0.06611 ± 0.00085	0.06588 ± 0.00080	0.06687 ± 0.00058
i (deg.)	86.10 ± 0.76	86.81 ± 0.82	86.39 ± 0.73	86.53 ± 0.75	85.99 ± 0.59
u_A	0.57 fixed	0.32 fixed	0.17 fixed	0.66 fixed	0.32 fixed
v_A		0.31 fixed	0.54 fixed	0.26 fixed	0.15 fixed
r_A	0.1254 ± 0.0068	0.1194 ± 0.0064	0.1226 ± 0.0063	0.1216 ± 0.0062	0.1254 ± 0.0056
r_B	0.00834 ± 0.00058	0.00782 ± 0.00050	0.00811 ± 0.00051	0.00801 ± 0.00050	0.00839 ± 0.00043
σ (mmag)	0.3885	0.3857	0.3850	0.3851	0.3844
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.1326 ± 0.0062	0.1313 ± 0.0072	0.1317 ± 0.0068	0.1313 ± 0.0072	0.1315 ± 0.0069
k	0.06688 ± 0.00076	0.06629 ± 0.00084	0.06651 ± 0.00079	0.06639 ± 0.00081	0.06649 ± 0.00082
i (deg.)	86.11 ± 0.63	86.29 ± 0.80	86.24 ± 0.72	86.29 ± 0.75	86.26 ± 0.74
u_A	0.433 ± 0.039	0.228 ± 0.065	0.097 ± 0.059	0.583 ± 0.057	0.375 ± 0.050
v_A		0.31 perturbed	0.54 perturbed	0.26 perturbed	0.15 perturbed
r_A	0.1243 ± 0.0057	0.1232 ± 0.0068	0.1235 ± 0.0063	0.1232 ± 0.0067	0.1233 ± 0.0064
r_B	0.00831 ± 0.00047	0.00816 ± 0.00054	0.00821 ± 0.00050	0.00818 ± 0.00051	0.00820 ± 0.00052
σ (mmag)	0.3838	0.3841	0.3838	0.3838	0.3838
Fitting for both LD coefficients					
$r_A + r_B$	0.1326 ± 0.0066	0.1322 ± 0.0070	0.1321 ± 0.0073	0.1322 ± 0.0075	0.1321 ± 0.0081
k	0.0669 ± 0.0008	0.0668 ± 0.0011	0.0667 ± 0.0014	0.0667 ± 0.0014	0.0667 ± 0.0015
i (deg.)	86.11 ± 0.68	86.15 ± 0.75	86.18 ± 0.80	86.17 ± 0.84	86.17 ± 0.93
u_A	0.43 ± 0.04	0.43 ± 0.24	0.27 ± 0.88	0.47 ± 0.27	0.41 ± 0.13
v_A		0.01 ± 0.36	0.27 ± 1.41	0.06 ± 0.47	0.06 ± 0.39
r_A	0.1243 ± 0.0061	0.1239 ± 0.0064	0.1238 ± 0.0067	0.1239 ± 0.0069	0.1239 ± 0.0075
r_B	0.00831 ± 0.00049	0.00828 ± 0.00056	0.00826 ± 0.00060	0.00827 ± 0.00060	0.00826 ± 0.00066
σ (mmag)	0.3838	0.3838	0.3837	0.3837	0.3837

Table A11. Parameters of the JKTEBOP best fits of the CoRoT 512s-sampled light curve of CoRoT-3, using different approaches to LD. The light curve contains 835 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.1363 ± 0.0127	0.1168 ± 0.0081	0.1306 ± 0.0131	0.1273 ± 0.0122	0.1356 ± 0.0100
k	0.06748 ± 0.00179	0.06509 ± 0.00099	0.06682 ± 0.00151	0.06634 ± 0.00139	0.06781 ± 0.00093
i (deg.)	85.92 ± 1.39	88.48 ± 1.66	86.48 ± 1.62	86.87 ± 1.85	85.87 ± 0.98
u_A	0.57 fixed	0.32 fixed	0.17 fixed	0.66 fixed	0.32 fixed
v_A		0.31 fixed	0.54 fixed	0.26 fixed	0.15 fixed
P	4.256599 ± 0.000100	4.256604 ± 0.000096	4.256602 ± 0.000099	4.256601 ± 0.000095	4.256607 ± 0.000096
T_0	283.14015 ± 0.00043	283.14012 ± 0.00041	283.14013 ± 0.00043	283.14013 ± 0.00042	283.14015 ± 0.00041
r_A	0.1277 ± 0.0118	0.1096 ± 0.0075	0.1224 ± 0.0121	0.1193 ± 0.0113	0.1270 ± 0.0092
r_b	0.00861 ± 0.00100	0.00714 ± 0.00060	0.00818 ± 0.00099	0.00792 ± 0.00091	0.00861 ± 0.00072
σ (mmag)	0.7783	0.7741	0.7746	0.7745	0.7714
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.143 ± 0.009	0.139 ± 0.011	0.142 ± 0.010	0.141 ± 0.011	0.141 ± 0.010
k	0.06877 ± 0.00073	0.06801 ± 0.00083	0.06838 ± 0.00078	0.06822 ± 0.00081	0.06836 ± 0.00084
i (deg.)	85.11 ± 0.83	85.50 ± 1.03	85.27 ± 0.93	85.36 ± 1.01	85.30 ± 0.93
u_A	0.293 ± 0.080	0.078 ± 0.101	-0.050 ± 0.091	0.434 ± 0.092	0.228 ± 0.091
v_A		0.31 perturbed	0.54 perturbed	0.26 perturbed	0.15 perturbed
P	4.256596 ± 0.000093	4.256600 ± 0.000095	4.256595 ± 0.000093	4.256596 ± 0.000092	4.256596 ± 0.000096
T_0	283.14022 ± 0.00040	283.14018 ± 0.00041	283.14020 ± 0.00038	283.14019 ± 0.00044	283.14020 ± 0.00041
r_A	0.1339 ± 0.0087	0.1302 ± 0.0099	0.1325 ± 0.0097	0.1316 ± 0.0101	0.1322 ± 0.0094
r_b	0.00921 ± 0.00066	0.00886 ± 0.00077	0.00906 ± 0.00074	0.00898 ± 0.00077	0.00904 ± 0.00073
σ (mmag)	0.7711	0.7708	0.7709	0.7708	0.7709
Fitting for both LD coefficients					
$r_A + r_b$	0.143 ± 0.010	0.132 ± 0.015	0.131 ± 0.015	0.132 ± 0.014	0.129 ± 0.014
k	0.0688 ± 0.0008	0.0666 ± 0.0019	0.0659 ± 0.0025	0.0664 ± 0.0024	0.0660 ± 0.0025
i (deg.)	85.1 ± 0.8	86.3 ± 2.1	86.5 ± 1.6	86.4 ± 1.7	86.8 ± 1.8
u_A	0.29 ± 0.08	-0.28 ± 0.43	-2.05 ± 2.18	1.01 ± 0.81	0.03 ± 0.25
v_A		0.93 ± 0.73	3.90 ± 3.70	1.15 ± 1.15	0.94 ± 0.91
P	4.256596 ± 0.000094	4.256601 ± 0.000096	4.256598 ± 0.000096	4.256599 ± 0.000095	4.256598 ± 0.000094
T_0	283.14022 ± 0.00042	283.14015 ± 0.00041	283.14016 ± 0.00041	283.14016 ± 0.00041	283.14016 ± 0.00040
r_A	0.134 ± 0.009	0.123 ± 0.014	0.123 ± 0.014	0.123 ± 0.013	0.121 ± 0.013
r_b	0.0092 ± 0.0007	0.0082 ± 0.0011	0.0081 ± 0.0011	0.0082 ± 0.0010	0.0080 ± 0.0011
σ (mmag)	0.7711	0.7704	0.7704	0.7704	0.7704

Table A12. Final parameters of the fit to the light curves of CoRoT-3 from the JKTEBOP analysis, compared to those found by other authors. Quantities without quoted uncertainties were not given in other studies but have been calculated from other parameters which were.

	This work (32s sampling)	This work (512s sampling)	This work (final)	Deleuil et al. (2008)	Triaud et al. (2009)
$r_A + r_b$	0.1322 ± 0.0090	0.1406 ± 0.0121	0.1352 ± 0.0072	0.1365	0.1340
k	0.0668 ± 0.0016	0.06825 ± 0.00094	0.06787 ± 0.00082	0.0663 ± 0.0009	$0.06632^{+0.00063}_{-0.00069}$
i ($^\circ$)	86.2 ± 1.0	85.4 ± 1.1	85.80 ± 0.77	85.9 ± 0.8	$86.10^{+0.73}_{-0.52}$
r_A	0.1239 ± 0.0083	0.1317 ± 0.0113	0.1266 ± 0.0067	0.128 ± 0.007	$0.1257^{+0.0057}_{-0.0064}$
r_b	0.00827 ± 0.00073	0.00899 ± 0.00086	0.00857 ± 0.00056	0.00849	$0.00834^{+0.00042}_{-0.00030}$

Table A13. Derived physical properties of the CoRoT-3 system. The upper part of the table contains the individual results from this work; in each case $g_b = 506 \pm 67 \text{ m s}^{-2}$, $\rho_A = 0.359 \pm 0.058 \rho_\odot$ and $T'_{\text{eq}} = 1695 \pm 57 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	146.0 ± 3.7	145.7 ± 1.4	145.8 ± 1.5	145.1 ± 2.0	145.1 ± 1.4	144.3 ± 2.0
M_A (M _⊙)	1.425 ± 0.106	1.417 ± 0.042	1.420 ± 0.045	1.401 ± 0.056	1.400 ± 0.040	1.378 ± 0.056
R_A (R _⊙)	1.583 ± 0.102	1.580 ± 0.092	1.581 ± 0.092	1.574 ± 0.092	1.574 ± 0.085	1.565 ± 0.094
log g_A (cgs)	4.193 ± 0.044	4.192 ± 0.044	4.193 ± 0.044	4.191 ± 0.044	4.191 ± 0.046	4.188 ± 0.044
M_b (M _{Jup})	22.18 ± 1.13	22.11 ± 0.52	22.13 ± 0.54	21.93 ± 0.64	21.92 ± 0.50	21.69 ± 0.65
R_b (R _{Jup})	1.042 ± 0.073	1.041 ± 0.069	1.041 ± 0.069	1.036 ± 0.069	1.036 ± 0.068	1.031 ± 0.069
ρ_b (ρ _{Jup})	18.3 ± 3.7	18.3 ± 3.7	18.3 ± 3.7	18.4 ± 3.7	18.4 ± 3.7	18.5 ± 3.7
Θ	1.73 ± 0.12	1.74 ± 0.12	1.74 ± 0.12	1.74 ± 0.12	1.74 ± 0.12	1.75 ± 0.12
a (AU)	0.05813 ± 0.00144	0.05803 ± 0.00057	0.05807 ± 0.00060	0.05780 ± 0.00077	0.05779 ± 0.00054	0.05748 ± 0.00078
Age (Gyr)		1.5 ^{+0.3} _{-0.4}	1.5 ^{+0.4} _{-0.4}	1.4 ^{+0.4} _{-0.3}	1.3 ^{+0.4} _{-0.5}	1.8 ^{+0.5} _{-0.4}
	This work (final)	Deleuil et al. (2008)	Triaud et al. (2009)			
M_A (M _⊙)	1.403 ± 0.056 ± 0.026	1.37 ± 0.09	1.359 ^{+0.059} _{-0.043}			
R_A (R _⊙)	1.575 ± 0.094 ± 0.010	1.56 ± 0.09	1.540 ^{+0.083} _{-0.078}			
log g_A (cgs)	4.191 ± 0.046 ± 0.003	4.25 ± 0.07				
ρ_A (ρ _⊙)	0.359 ± 0.058		0.372 ^{+0.064} _{-0.047}			
M_b (M _{Jup})	21.96 ± 0.65 ± 0.27	21.7 ± 1.0	21.23 ^{+0.82} _{-0.59}			
R_b (R _{Jup})	1.037 ± 0.069 ± 0.006	1.01 ± 0.07	0.9934 ^{+0.058} _{-0.058}			
g_b (m s ⁻¹)	506 ± 67	524 ± 85				
ρ_b (ρ _{Jup})	18.4 ± 3.7 ± 0.1	19.9 ± 4.2				
T'_{eq} (K)	1695 ± 57					
Θ	1.74 ± 0.12 ± 0.01					
a (AU)	0.05783 ± 0.00078 ± 0.00035		0.05694 ^{+0.00096} _{-0.00079}			
Age (Gyr)	1.5 ^{+0.5} _{-0.5} ^{+0.3} _{-0.2}	1.6–2.8				

Table A14. Parameters of the JKTEBOP best fits of the 32s-sampled CoRoT light curve of CoRoT-4, using different approaches to LD. The light curve contains 519 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.0646 ^{+0.0049} _{-0.0017}	0.0649 ^{+0.0029} _{-0.0012}	0.0645 ^{+0.0032} _{-0.0012}	0.0652 ^{+0.0026} _{-0.0010}	0.0663 ^{+0.0025} _{-0.0024}
k	0.10299 ^{+0.00203} _{-0.00079}	0.10384 ^{+0.00084} _{-0.00062}	0.10409 ^{+0.00111} _{-0.00060}	0.10446 ^{+0.00083} _{-0.00056}	0.10603 ^{+0.00079} _{-0.00068}
i (deg.)	89.92 ^{+0.67} _{-0.79}	89.61 ^{+0.58} _{-0.56}	89.70 ^{+0.58} _{-0.58}	89.41 ^{+0.53} _{-0.54}	89.05 ^{+0.75} _{-0.40}
u_A	0.57 fixed	0.33 fixed	0.11 fixed	0.66 fixed	0.33 fixed
v_A		0.30 fixed	0.61 fixed	0.31 fixed	0.15 fixed
r_A	0.0585 ^{+0.0044} _{-0.0015}	0.0588 ^{+0.0025} _{-0.0011}	0.0584 ^{+0.0028} _{-0.0011}	0.0591 ^{+0.0023} _{-0.0009}	0.0599 ^{+0.0022} _{-0.0021}
r_B	0.00603 ^{+0.00059} _{-0.00019}	0.00610 ^{+0.00033} _{-0.00014}	0.00608 ^{+0.00036} _{-0.00014}	0.00617 ^{+0.00030} _{-0.00011}	0.00635 ^{+0.00028} _{-0.00025}
σ (mmag)	0.9468	0.9489	0.9466	0.9494	0.9559
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.0645 ^{+0.0030} _{-0.0012}	0.0647 ^{+0.0052} _{-0.0017}	0.0645 ^{+0.0055} _{-0.0017}	0.0647 ^{+0.0059} _{-0.0018}	0.0645 ^{+0.0050} _{-0.0016}
k	0.1041 ^{+0.0013} _{-0.0009}	0.1031 ^{+0.0019} _{-0.0012}	0.1034 ^{+0.0020} _{-0.0011}	0.1031 ^{+0.0022} _{-0.0012}	0.1035 ^{+0.0018} _{-0.0011}
i (deg.)	89.67 ^{+0.59} _{-0.59}	89.94 ^{+0.69} _{-0.81}	89.96 ^{+0.65} _{-0.88}	90.00 ^{+0.71} _{-0.92}	89.92 ^{+0.70} _{-0.80}
u_A	0.502 ^{+0.041} _{-0.041}	0.373 ^{+0.058} _{-0.074}	0.155 ^{+0.059} _{-0.069}	0.734 ^{+0.069} _{-0.080}	0.474 ^{+0.050} _{-0.062}
v_A		0.30 perturbed	0.61 perturbed	0.31 perturbed	0.15 perturbed
r_A	0.0584 ^{+0.0027} _{-0.0011}	0.0587 ^{+0.0045} _{-0.0015}	0.0585 ^{+0.0048} _{-0.0015}	0.0586 ^{+0.0052} _{-0.0016}	0.0584 ^{+0.0044} _{-0.0014}
r_B	0.00608 ^{+0.00035} _{-0.00015}	0.00605 ^{+0.00061} _{-0.00020}	0.00604 ^{+0.00065} _{-0.00019}	0.00605 ^{+0.00071} _{-0.00021}	0.00605 ^{+0.00058} _{-0.00019}
σ (mmag)	0.9442	0.9480	0.9455	0.9467	0.9455
Fitting for both LD coefficients					
$r_A + r_B$	0.0645 ^{+0.0029} _{-0.0013}	0.0658 ^{+0.0028} _{-0.0019}	0.0658 ^{+0.0026} _{-0.0020}	0.0658 ^{+0.0024} _{-0.0021}	0.0675 ^{+0.0063} _{-0.0027}
k	0.1041 ^{+0.0013} _{-0.0009}	0.1058 ^{+0.0016} _{-0.0013}	0.1062 ^{+0.0015} _{-0.0014}	0.1060 ^{+0.0016} _{-0.0013}	0.0985 ^{+0.0056} _{-0.0031}
i (deg.)	89.67 ^{+0.60} _{-0.56}	89.11 ^{+0.76} _{-0.46}	89.06 ^{+0.82} _{-0.44}	89.08 ^{+0.84} _{-0.44}	89.94 ^{+0.78} _{-0.89}
u_A	0.502 ^{+0.039} _{-0.042}	0.718 ^{+0.164} _{-0.151}	1.570 ^{+0.654} _{-0.592}	0.106 ^{+0.212} _{-0.208}	0.415 ^{+0.096} _{-0.104}
v_A		-0.43 ^{+0.27} _{-0.28}	-1.82 ^{+0.99} _{-1.06}	-0.58 ^{+0.33} _{-0.33}	1.08 ^{+0.49} _{-0.87}
r_A	0.0584 ^{+0.0025} _{-0.0011}	0.0595 ^{+0.0024} _{-0.0017}	0.0595 ^{+0.0023} _{-0.0017}	0.0595 ^{+0.0021} _{-0.0018}	0.0614 ^{+0.0057} _{-0.0025}
r_B	0.00608 ^{+0.00034} _{-0.00016}	0.00629 ^{+0.00034} _{-0.00025}	0.00632 ^{+0.00033} _{-0.00025}	0.00631 ^{+0.00032} _{-0.00025}	0.00605 ^{+0.00075} _{-0.00030}
σ (mmag)	0.9442	0.9420	0.9420	0.9420	0.9529

Table A15. Parameters of the JKTEBOP best fits of the 512s-sampled CoRoT light curve for CoRoT-4, using different approaches to LD. T_0 is given as HJD – 2454000.0. The light curve contains 254 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.0651 ^{+0.0059} _{-0.0023}	0.0650 ^{+0.0053} _{-0.0018}	0.0648 ^{+0.0075} _{-0.0020}	0.0648 ^{+0.0062} _{-0.0022}	0.0642 ^{+0.0062} _{-0.0020}
k	0.1023 ^{+0.0026} _{-0.0011}	0.1031 ^{+0.0017} _{-0.0008}	0.1034 ^{+0.0023} _{-0.0009}	0.1035 ^{+0.0017} _{-0.0009}	0.1047 ^{+0.0016} _{-0.0008}
i (deg.)	89.93 ^{+0.78} _{-0.86}	89.96 ^{+0.70} _{-0.83}	89.96 ^{+0.79} _{-1.04}	89.97 ^{+0.80} _{-0.89}	89.94 ^{+0.71} _{-0.91}
u_A	0.57 fixed	0.33 fixed	0.11 fixed	0.66 fixed	0.33 fixed
v_A		0.30 fixed	0.61 fixed	0.31 fixed	0.15 fixed
r_A	0.0590 ^{+0.0050} _{-0.0020}	0.0589 ^{+0.0047} _{-0.0016}	0.0587 ^{+0.0066} _{-0.0018}	0.0587 ^{+0.0055} _{-0.0020}	0.0581 ^{+0.0055} _{-0.0018}
r_B	0.00604 ^{+0.00071} _{-0.00027}	0.00607 ^{+0.00061} _{-0.00019}	0.00607 ^{+0.00085} _{-0.00023}	0.00607 ^{+0.00068} _{-0.00024}	0.00609 ^{+0.00070} _{-0.00022}
σ (mmag)	0.8598	0.8410	0.8396	0.8371	0.8325
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.0639 ^{+0.0061} _{-0.0019}	0.0643 ^{+0.0084} _{-0.0022}	0.0642 ^{+0.0067} _{-0.0020}	0.0643 ^{+0.0078} _{-0.0020}	0.0641 ^{+0.0066} _{-0.0021}
k	0.1053 ^{+0.0015} _{-0.0012}	0.1046 ^{+0.0019} _{-0.0014}	0.1048 ^{+0.0016} _{-0.0012}	0.1046 ^{+0.0016} _{-0.0013}	0.1049 ^{+0.0016} _{-0.0012}
i (deg.)	89.95 ^{+0.75} _{-0.90}	89.97 ^{+0.75} _{-1.12}	89.95 ^{+0.72} _{-0.99}	89.98 ^{+0.74} _{-1.09}	89.94 ^{+0.76} _{-0.94}
u_A	0.348 ^{+0.060} _{-0.070}	0.209 ^{+0.077} _{-0.100}	-0.005 ^{+0.074} _{-0.084}	0.571 ^{+0.084} _{-0.090}	0.315 ^{+0.063} _{-0.083}
v_A		0.30 perturbed	0.61 perturbed	0.31 perturbed	0.15 perturbed
r_A	0.0578 ^{+0.0055} _{-0.0016}	0.0582 ^{+0.0074} _{-0.0020}	0.0581 ^{+0.0059} _{-0.0018}	0.0582 ^{+0.0069} _{-0.0018}	0.0581 ^{+0.0059} _{-0.0018}
r_B	0.00609 ^{+0.00068} _{-0.00021}	0.00609 ^{+0.00092} _{-0.00024}	0.00609 ^{+0.00075} _{-0.00021}	0.00609 ^{+0.00087} _{-0.00022}	0.00609 ^{+0.00073} _{-0.00022}
σ (mmag)	0.8319	0.8334	0.8324	0.8329	0.8324
Fitting for both LD coefficients					
$r_A + r_B$	0.064 ^{+0.007} _{-0.002}	0.064 ^{+0.012} _{-0.002}	0.064 ^{+0.011} _{-0.002}	0.064 ^{+0.012} _{-0.002}	0.064 ^{+0.010} _{-0.003}
k	0.1053 ^{+0.0016} _{-0.0012}	0.1053 ^{+0.0020} _{-0.0085}	0.1054 ^{+0.0024} _{-0.0075}	0.1053 ^{+0.0022} _{-0.0086}	0.1053 ^{+0.0023} _{-0.0084}
i (deg.)	89.95 ^{+0.73} _{-0.99}	89.95 ^{+0.80} _{-1.02}	89.98 ^{+0.85} _{-1.12}	89.97 ^{+0.80} _{-1.03}	89.97 ^{+0.77} _{-1.09}
u_A	0.35 ^{+0.06} _{-0.07}	0.35 ^{+0.31} _{-0.54}	0.44 ^{+1.38} _{-3.84}	0.32 ^{+2.14} _{-0.48}	0.36 ^{+0.18} _{-0.24}
v_A		-0.0 ^{+1.8} _{-0.5}	-0.2 ^{+6.7} _{-2.3}	-0.0 ^{+2.6} _{-0.7}	-0.0 ^{+2.1} _{-0.6}
r_A	0.0578 ^{+0.0061} _{-0.0018}	0.0578 ^{+0.0111} _{-0.0021}	0.0578 ^{+0.0099} _{-0.0022}	0.0578 ^{+0.0110} _{-0.0021}	0.0578 ^{+0.0094} _{-0.0024}
r_B	0.00609 ^{+0.00077} _{-0.00022}	0.00609 ^{+0.00073} _{-0.00024}	0.00609 ^{+0.00092} _{-0.00026}	0.00609 ^{+0.00075} _{-0.00022}	0.00609 ^{+0.00083} _{-0.00022}
σ (mmag)	0.8319	0.8319	0.8319	0.8319	0.8319

Table A16. Final parameters of the fit to the light curves of CoRoT-4 from the JKTEBOP analysis, compared to those found by Aigrain et al. (2008). Quantities without quoted uncertainties were not given by Aigrain et al. (2008) but have been calculated from other parameters which were.

	This work (32s sampling)	This work (512s sampling)	This work (final)	Aigrain et al. (2008)
$r_A + r_B$	0.0646 ^{+0.0060} _{-0.0020}	0.0642 ^{+0.0115} _{-0.0028}	0.0646 ^{+0.0053} _{-0.0017}	0.0636
k	0.1033 ^{+0.0022} _{-0.0012}	0.1047 ^{+0.0019} _{-0.0014}	0.1043 ^{+0.0013} _{-0.0012}	0.1047 ^{+0.0041} _{-0.0022}
i (°)	89.95 ^{+0.05} _{-0.94}	89.96 ^{+0.04} _{-1.44}	89.96 ^{+0.04} _{-0.79}	90.00 ^{+0.000} _{-0.085}
r_A	0.0585 ^{+0.0053} _{-0.0018}	0.0581 ^{+0.0102} _{-0.0025}	0.0585 ^{+0.0046} _{-0.0015}	0.0576 ^{+0.0008} _{-0.0002}
r_B	0.00605 ^{+0.00072} _{-0.00024}	0.00609 ^{+0.00120} _{-0.00031}	0.00608 ^{+0.00060} _{-0.00020}	0.006031

Table A17. Derived physical properties of the CoRoT-4 system. The upper part of the table contains the individual results from this work; in each case $g_b = 13.5^{+1.6}_{-2.6} \text{ m s}^{-2}$, $\rho_A = 0.790^{+0.064}_{-0.161} \rho_\odot$ and $T'_{\text{eq}} = 1058^{+42}_{-17} \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	107.81 ^{+2.77} _{-2.52}	108.48 ^{+0.90} _{-1.10}	107.93 ^{+0.95} _{-1.18}	107.62 ^{+1.18} _{-1.32}	107.79 ^{+0.91} _{-1.09}	106.97 ^{+1.31} _{-1.17}
M_A (M _⊙)	1.196 ^{+0.094} _{-0.082}	1.219 ^{+0.031} _{-0.037}	1.200 ^{+0.032} _{-0.039}	1.190 ^{+0.039} _{-0.043}	1.196 ^{+0.031} _{-0.036}	1.168 ^{+0.043} _{-0.038}
R_A (R _⊙)	1.148 ^{+0.107} _{-0.043}	1.155 ^{+0.086} _{-0.032}	1.149 ^{+0.091} _{-0.032}	1.146 ^{+0.088} _{-0.032}	1.148 ^{+0.092} _{-0.032}	1.139 ^{+0.089} _{-0.031}
log g_A (cgs)	4.396 ^{+0.023} _{-0.062}	4.399 ^{+0.023} _{-0.068}	4.397 ^{+0.023} _{-0.066}	4.395 ^{+0.023} _{-0.067}	4.396 ^{+0.023} _{-0.065}	4.393 ^{+0.024} _{-0.066}
M_b (M _{Jup})	0.732 ^{+0.079} _{-0.078}	0.741 ^{+0.072} _{-0.072}	0.734 ^{+0.071} _{-0.073}	0.729 ^{+0.071} _{-0.072}	0.732 ^{+0.071} _{-0.071}	0.721 ^{+0.071} _{-0.070}
R_b (R _{Jup})	1.161 ^{+0.118} _{-0.047}	1.168 ^{+0.116} _{-0.040}	1.162 ^{+0.115} _{-0.040}	1.159 ^{+0.115} _{-0.041}	1.161 ^{+0.115} _{-0.040}	1.152 ^{+0.115} _{-0.040}
ρ_b (ρ_{Jup})	0.438 ^{+0.063} _{-0.116}	0.435 ^{+0.062} _{-0.115}	0.437 ^{+0.062} _{-0.115}	0.438 ^{+0.063} _{-0.116}	0.438 ^{+0.062} _{-0.116}	0.441 ^{+0.063} _{-0.116}
Θ	0.0961 ^{+0.0100} _{-0.0128}	0.0955 ^{+0.0097} _{-0.0125}	0.0960 ^{+0.0098} _{-0.0126}	0.0963 ^{+0.0098} _{-0.0127}	0.0961 ^{+0.0098} _{-0.0126}	0.0969 ^{+0.0099} _{-0.0127}
a (AU)	0.09124 ^{+0.00235} _{-0.00213}	0.09181 ^{+0.00076} _{-0.00093}	0.09134 ^{+0.00081} _{-0.00100}	0.09108 ^{+0.00099} _{-0.00112}	0.09123 ^{+0.00077} _{-0.00092}	0.09053 ^{+0.00110} _{-0.00099}
Age (Gyr)		0.5 ^{+1.9} _{-0.0}	0.8 ^{+1.5} _{-0.6}	0.8 ^{+2.6} _{-0.6}	0.5 ^{+1.3} _{-0.0}	1.5 ^{+2.2} _{-1.0}
	This work (final)	Moutou et al. (2008)				
M_A (M _⊙)	1.194 ^{+0.043} _{-0.043} ^{+0.024} _{-0.026}	1.16 ^{+0.03} _{-0.02}				
R_A (R _⊙)	1.148 ^{+0.092} _{-0.032} ^{+0.008} _{-0.008}	1.17 ^{+0.01} _{-0.03}				
log g_A (cgs)	4.396 ^{+0.024} _{-0.068} ^{+0.003} _{-0.003}	4.37 ± 0.02				
ρ_A (ρ_\odot)	0.790 ^{+0.064} _{-0.161}					
M_b (M _{Jup})	0.731 ^{+0.072} _{-0.073} ^{+0.010} _{-0.011}	0.72 ± 0.08				
R_b (R _{Jup})	1.160 ^{+0.116} _{-0.041} ^{+0.008} _{-0.008}	1.19 ^{+0.06} _{-0.05}				
g_b (m s ⁻¹)	13.5 ^{+1.6} _{-2.6}					
ρ_b (ρ_{Jup})	0.438 ^{+0.063} _{-0.116} ^{+0.003} _{-0.003}	0.396 ± 0.11				
T'_{eq} (K)	1058 ⁺⁴² ₋₁₇	1074 ± 19				
Θ	0.0962 ^{+0.0099} _{-0.0127} ^{+0.0007} _{-0.0006}					
a (AU)	0.0912 ^{+0.0011} _{-0.0011} ^{+0.0006} _{-0.0007}	0.090 ± 0.001				
Age (Gyr)	0.8 ^{+2.6} _{-1.0} ^{+0.6} _{-0.3}	1 ^{+1.0} _{-0.3}				

Table A18. Parameters of the JKTEBOP best fits of the CoRoT 32s-sampled light curve of CoRoT-5, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 459 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.1140 ± 0.0093	0.1101 ± 0.0095	0.1261 ± 0.0110	0.1094 ± 0.0091	0.1250 ± 0.0113
k	0.1169 ± 0.0013	0.1158 ± 0.0012	0.1169 ± 0.0012	0.1159 ± 0.0013	0.1166 ± 0.0013
i (deg.)	85.90 ± 0.62	86.18 ± 0.63	84.90 ± 0.81	86.23 ± 0.60	85.02 ± 0.83
u_A	0.57 fixed	0.33 fixed	0.24 fixed	0.70 fixed	0.33 fixed
v_A		0.29 fixed	0.14 fixed	0.28 fixed	0.15 fixed
r_A	0.1021 ± 0.0083	0.0987 ± 0.0085	0.1129 ± 0.0098	0.0981 ± 0.0082	0.1120 ± 0.0101
r_B	0.01193 ± 0.00099	0.01143 ± 0.00103	0.01321 ± 0.00116	0.01137 ± 0.00095	0.01305 ± 0.00123
σ (mmag)	0.4788	0.4777	0.4819	0.4779	0.4780
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.1093 ± 0.0098	0.1160 ± 0.0109	0.1085 ± 0.0103	0.1151 ± 0.0100	0.1176 ± 0.0100
k	0.1172 ± 0.0013	0.1161 ± 0.0013	0.1170 ± 0.0013	0.1162 ± 0.0012	0.1165 ± 0.0013
i (deg.)	86.20 ± 0.66	85.74 ± 0.75	86.25 ± 0.70	85.81 ± 0.67	85.63 ± 0.70
u_A	0.498 ± 0.050	0.265 ± 0.074	0.406 ± 0.063	0.631 ± 0.063	0.414 ± 0.065
v_A		0.29 perturbed	0.14 perturbed	0.28 perturbed	0.15 perturbed
r_A	0.0978 ± 0.0088	0.1039 ± 0.0098	0.0971 ± 0.0093	0.1032 ± 0.0089	0.1053 ± 0.0090
r_B	0.0115 ± 0.0011	0.0121 ± 0.0011	0.0114 ± 0.0011	0.0120 ± 0.0011	0.0123 ± 0.0011
σ (mmag)	0.4773	0.4768	0.4772	0.4769	0.4771
Fitting for both LD coefficients					
$r_A + r_B$	0.109 ± 0.009	0.112 ± 0.011	0.118 ± 0.012	0.128 ± 0.012	0.130 ± 0.013
k	0.1172 ± 0.0013	0.1139 ± 0.0039	0.1142 ± 0.0031	0.1146 ± 0.0040	0.1149 ± 0.0038
i (deg.)	86.20 ± 0.64	86.02 ± 0.73	85.68 ± 0.79	84.86 ± 0.89	84.68 ± 0.93
u_A	0.50 ± 0.05	-0.17 ± 0.79	-0.95 ± 1.40	0.86 ± 0.62	0.26 ± 0.33
v_A		0.88 ± 1.09	2.27 ± 2.25	0.73 ± 1.10	0.47 ± 0.79
r_A	0.0978 ± 0.0083	0.1010 ± 0.0094	0.1056 ± 0.0106	0.1147 ± 0.0110	0.1164 ± 0.0112
r_B	0.0115 ± 0.0010	0.0115 ± 0.0011	0.0121 ± 0.0012	0.0131 ± 0.0013	0.0134 ± 0.0013
σ (mmag)	0.4773	0.4766	0.4766	0.4764	0.4764

Table A19. Parameters of the JKTEBOP best fits of the CoRoT 512s-sampled light curve of CoRoT-5, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 322 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.096 ± 0.014	0.096 ± 0.013	0.101 ± 0.013	0.096 ± 0.014	0.100 ± 0.013
k	0.1125 ± 0.0024	0.1119 ± 0.0020	0.1145 ± 0.0015	0.1118 ± 0.0021	0.1138 ± 0.0016
i (deg.)	87.18 ± 0.87	87.17 ± 0.82	86.67 ± 0.86	87.21 ± 0.87	86.78 ± 0.89
u_A	0.57 fixed	0.33 fixed	0.24 fixed	0.70 fixed	0.33 fixed
v_A		0.29 fixed	0.14 fixed	0.28 fixed	0.15 fixed
T_0	400.19898 ± 0.00068	400.19896 ± 0.00070	400.19877 ± 0.00067	400.19897 ± 0.00072	400.19883 ± 0.00064
r_A	0.086 ± 0.012	0.086 ± 0.012	0.091 ± 0.012	0.086 ± 0.013	0.090 ± 0.012
r_b	0.0097 ± 0.0015	0.0097 ± 0.0014	0.0104 ± 0.0013	0.0096 ± 0.0015	0.0102 ± 0.0014
σ (mmag)	1.0699	1.0684	1.0706	1.0686	1.0687
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.099 ± 0.014	0.098 ± 0.014	0.099 ± 0.014	0.098 ± 0.014	0.098 ± 0.015
k	0.1139 ± 0.0020	0.1127 ± 0.0025	0.1137 ± 0.0020	0.1128 ± 0.0022	0.1131 ± 0.0021
i (deg.)	86.92 ± 0.91	86.99 ± 0.97	86.90 ± 0.93	86.99 ± 0.88	86.99 ± 0.95
u_A	0.46 ± 0.10	0.27 ± 0.12	0.38 ± 0.10	0.63 ± 0.11	0.41 ± 0.11
v_A		0.29 perturbed	0.14 perturbed	0.28 perturbed	0.15 perturbed
T_0	400.19885 ± 0.00065	400.19889 ± 0.00066	400.19885 ± 0.00070	400.19889 ± 0.00069	400.19888 ± 0.00070
r_A	0.088 ± 0.012	0.088 ± 0.013	0.089 ± 0.013	0.088 ± 0.012	0.088 ± 0.013
r_b	0.0101 ± 0.0015	0.0099 ± 0.0015	0.0101 ± 0.0015	0.0099 ± 0.0014	0.0099 ± 0.0016
σ (mmag)	1.0676	1.0680	1.0677	1.0680	1.0679
Fitting for both LD coefficients					
$r_A + r_b$	0.099 ± 0.015	0.100 ± 0.014	0.097 ± 0.014	0.100 ± 0.014	0.099 ± 0.013
k	0.1139 ± 0.0020	0.1166 ± 0.0062	0.1170 ± 0.0054	0.1169 ± 0.0060	0.1167 ± 0.0057
i (deg.)	86.92 ± 0.94	86.79 ± 0.96	86.90 ± 0.90	86.77 ± 0.91	86.79 ± 0.91
u_A	0.46 ± 0.09	0.91 ± 0.82	1.94 ± 2.06	0.06 ± 0.66	0.71 ± 0.41
v_A		-0.62 ± 1.18	-2.32 ± 3.23	-0.77 ± 1.26	-0.55 ± 0.89
T_0	400.19885 ± 0.00066	400.19880 ± 0.00067	400.19879 ± 0.00063	400.19879 ± 0.00064	400.19879 ± 0.00069
r_A	0.088 ± 0.013	0.089 ± 0.013	0.087 ± 0.012	0.089 ± 0.012	0.089 ± 0.012
r_b	0.0101 ± 0.0015	0.0104 ± 0.0017	0.0102 ± 0.0016	0.0104 ± 0.0015	0.0104 ± 0.0016
σ (mmag)	1.0676	1.0672	1.0669	1.0670	1.0670

Table A20. Final parameters of the fit to the light curves of CoRoT-5 from the JKTEBOP analysis, compared to those found by Rauer et al. (2009). Quantities without quoted uncertainties were not given by Rauer et al. (2009) but have been calculated from other parameters which were.

	This work (32s sampling)	This work (512s sampling)	This work (final)	Rauer et al. (2009)
$r_A + r_b$	0.114 ± 0.012	0.098 ± 0.017	0.1090 ± 0.0076	0.1249
k	0.1164 ± 0.0014	0.1131 ± 0.0027	0.1157 ± 0.0013	$0.1209^{+0.0012}_{-0.0013}$
i ($^\circ$)	85.86 ± 0.76	86.97 ± 1.09	86.24 ± 0.53	$85.83^{+0.99}_{-1.38}$
r_A	0.102 ± 0.010	0.088 ± 0.015	0.0977 ± 0.0067	0.1115
r_b	0.0119 ± 0.0012	0.0100 ± 0.0018	0.01129 ± 0.00091	0.01341

Table A21. Derived physical properties of the CoRoT-5 system. The upper part of the table contains the individual results from this work; in each case $g_b = 8.3^{+1.8}_{-1.3} \text{ m s}^{-2}$, $\rho_A = 0.88^{+0.21}_{-0.16} \rho_\odot$ and $T'_{\text{eq}} = 1348^{+50}_{-51} \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	135.0 ^{+3.8} _{-3.4}	135.6 ^{+4.5} _{-1.2}	135.2 ^{+3.4} _{-1.4}	134.5 ^{+3.0} _{-2.0}	135.6 ^{+3.0} _{-2.5}	134.1 ^{+4.7} _{-1.5}
M_A (M _⊙)	1.023 ^{+0.079} _{-0.075}	1.038 ^{+0.097} _{-0.026}	1.030 ^{+0.067} _{-0.030}	1.014 ^{+0.057} _{-0.044}	1.038 ^{+0.058} _{-0.056}	1.005 ^{+0.100} _{-0.031}
R_A (R _⊙)	1.051 ^{+0.086} _{-0.085}	1.056 ^{+0.079} _{-0.060}	1.053 ^{+0.081} _{-0.065}	1.048 ^{+0.070} _{-0.066}	1.056 ^{+0.072} _{-0.067}	1.045 ^{+0.079} _{-0.066}
log g_A (cgs)	4.405 ^{+0.058} _{-0.055}	4.407 ^{+0.068} _{-0.057}	4.406 ^{+0.066} _{-0.055}	4.404 ^{+0.066} _{-0.059}	4.407 ^{+0.066} _{-0.059}	4.402 ^{+0.066} _{-0.058}
M_b (M _{Jup})	0.469 ^{+0.055} _{-0.034}	0.474 ^{+0.058} _{-0.027}	0.471 ^{+0.053} _{-0.027}	0.467 ^{+0.052} _{-0.029}	0.474 ^{+0.053} _{-0.031}	0.464 ^{+0.057} _{-0.027}
R_b (R _{Jup})	1.182 ^{+0.100} _{-0.100}	1.187 ^{+0.102} _{-0.096}	1.184 ^{+0.099} _{-0.096}	1.178 ^{+0.097} _{-0.096}	1.187 ^{+0.098} _{-0.098}	1.174 ^{+0.102} _{-0.095}
ρ_b (ρ_{Jup})	0.266 ^{+0.082} _{-0.057}	0.265 ^{+0.081} _{-0.057}	0.266 ^{+0.081} _{-0.057}	0.267 ^{+0.082} _{-0.057}	0.265 ^{+0.081} _{-0.057}	0.268 ^{+0.082} _{-0.058}
Θ	0.0388 ^{+0.0054} _{-0.0037}	0.0386 ^{+0.0053} _{-0.0037}	0.0387 ^{+0.0053} _{-0.0037}	0.0389 ^{+0.0054} _{-0.0037}	0.0386 ^{+0.0053} _{-0.0036}	0.0390 ^{+0.0054} _{-0.0038}
a (AU)	0.05002 ^{+0.00126} _{-0.00125}	0.05025 ^{+0.00153} _{-0.00043}	0.05012 ^{+0.00107} _{-0.00049}	0.04986 ^{+0.00092} _{-0.00073}	0.05026 ^{+0.00092} _{-0.00092}	0.04972 ^{+0.00161} _{-0.00052}
Age (Gyr)		4.5 ^{+1.0} _{-5.3}	4.0 ^{+0.6} _{-3.7}	3.9 ^{+2.3} _{-3.1}	2.8 ^{+2.6} _{-3.0}	4.2 ^{+1.4} _{-4.9}
	This work (final)	Rauer et al. (2009)				
M_A (M _⊙)	1.025 ^{+0.100} _{-0.056} ^{+0.013} _{-0.020}	1.00 ± 0.02				
R_A (R _⊙)	1.052 ^{+0.081} _{-0.067} ^{+0.005} _{-0.007}	1.186 ± 0.04				
log g_A (cgs)	4.405 ^{+0.068} _{-0.059} ^{+0.002} _{-0.003}	4.311 ± 0.033				
ρ_A (ρ_\odot)	0.88 ^{+0.21} _{-0.16}					
M_b (M _{Jup})	0.470 ^{+0.058} _{-0.031} ^{+0.004} _{-0.006}	0.467 ^{+0.047} _{-0.024}				
R_b (R _{Jup})	1.182 ^{+0.102} _{-0.098} ^{+0.005} _{-0.008}	1.388 ^{+0.046} _{-0.047}				
g_b (m s ⁻¹)	8.3 ^{+1.8} _{-1.3}	*				
ρ_b (ρ_{Jup})	0.266 ^{+0.082} _{-0.058} ^{+0.002} _{-0.001}	0.164 ^{+0.023} _{-0.019}				
T'_{eq} (K)	1348 ⁺⁵⁰ ₋₅₁	1438 ± 39				
Θ	0.0388 ^{+0.0054} _{-0.0038} ^{+0.0003} _{-0.0002}					
a (AU)	0.05004 ^{+0.00161} _{-0.00092} ^{+0.00022} _{-0.00033}	0.04947 ^{+0.00026} _{-0.00029}				
Age (Gyr)	3.9 ^{+2.6} _{-5.3} ^{+0.6} _{-1.0}	5.5 to 8.3				

* The quoted surface gravity of the planet from Rauer et al. (2009) is $\log g_b = 7.77^{+0.14}_{-0.08}$, which is much too high. If we guess it is out by a factor of 10^5 then we would get $g_b = 5.9^{+2.2}_{-1.0}$. The surface gravity calculated from the M_b and R_b values given by Rauer et al. (2009) is $g_b = 6.0^{+0.6}_{-0.9}$. The likely explanation of this discrepancy is therefore that the quoted $\log g_b$ is actually non-logarithmic g_b but that the errorbars *are* logarithmic.

Table A22. Parameters of the JKTEBOP best fits of the 32s-sampled CoRoT light curve of CoRoT-6, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 476 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.0632 ± 0.0014	0.0604 ± 0.0016	0.0623 ± 0.0015	0.0619 ± 0.0014	0.0630 ± 0.0013
k	0.11444 ± 0.00089	0.11287 ± 0.00084	0.11377 ± 0.00081	0.11372 ± 0.00077	0.11631 ± 0.00067
i (deg.)	89.01 ± 0.25	89.95 ± 0.48	89.20 ± 0.32	89.29 ± 0.37	88.95 ± 0.21
u_A	0.60 fixed	0.39 fixed	0.25 fixed	0.72 fixed	0.39 fixed
v_A		0.34 fixed	0.56 fixed	0.22 fixed	0.17 fixed
r_A	0.0567 ± 0.0012	0.0543 ± 0.0014	0.0559 ± 0.0013	0.0556 ± 0.0013	0.0564 ± 0.0011
r_b	0.00649 ± 0.00019	0.00613 ± 0.00020	0.00636 ± 0.00019	0.00632 ± 0.00018	0.00656 ± 0.00016
σ (mmag)	0.5369	0.5142	0.5250	0.5210	0.4978
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.0639 ± 0.0012	0.0629 ± 0.0015	0.0635 ± 0.0013	0.0634 ± 0.0013	0.0634 ± 0.0013
k	0.11763 ± 0.00072	0.11616 ± 0.00087	0.11689 ± 0.00077	0.11678 ± 0.00084	0.11678 ± 0.00086
i (deg.)	88.75 ± 0.17	88.96 ± 0.25	88.84 ± 0.19	88.87 ± 0.20	88.86 ± 0.21
u_A	0.405 ± 0.024	0.239 ± 0.043	0.079 ± 0.043	0.559 ± 0.055	0.366 ± 0.030
v_A		0.34 perturbed	0.56 perturbed	0.22 perturbed	0.17 perturbed
r_A	0.0572 ± 0.0011	0.0564 ± 0.0013	0.0569 ± 0.0011	0.0568 ± 0.0011	0.0568 ± 0.0012
r_b	0.00673 ± 0.00016	0.00655 ± 0.00019	0.00665 ± 0.00016	0.00663 ± 0.00017	0.00663 ± 0.00017
σ (mmag)	0.4988	0.4975	0.4977	0.4976	0.4975
Fitting for both LD coefficients					
$r_A + r_b$	0.0639 ± 0.0012	0.0628 ± 0.0017	0.0631 ± 0.0015	0.0630 ± 0.0015	0.0629 ± 0.0016
k	0.1176 ± 0.0007	0.1163 ± 0.0014	0.1158 ± 0.0018	0.1161 ± 0.0015	0.1159 ± 0.0020
i (deg.)	88.75 ± 0.17	88.97 ± 0.32	88.96 ± 0.30	88.96 ± 0.31	88.98 ± 0.35
u_A	0.405 ± 0.024	0.262 ± 0.095	-0.392 ± 0.538	0.692 ± 0.224	0.331 ± 0.054
v_A		0.30 ± 0.21	1.38 ± 0.96	0.40 ± 0.29	0.34 ± 0.29
r_A	0.0572 ± 0.0011	0.0563 ± 0.0014	0.0566 ± 0.0013	0.0565 ± 0.0013	0.0564 ± 0.0014
r_b	0.00673 ± 0.00016	0.00654 ± 0.00024	0.00655 ± 0.00022	0.00655 ± 0.00023	0.00654 ± 0.00025
σ (mmag)	0.4988	0.4974	0.4972	0.4973	0.4971

Table A23. Final parameters of the fit to the light curves of CoRoT-6 from the JKTEBOP analysis, compared to those found by Fridlund et al. (2010). Quantities without quoted uncertainties were not given by Fridlund et al. (2010) but have been calculated from other parameters which were.

	This work	Fridlund et al. (2010)
$r_A + r_b$	0.0633 ± 0.0015	0.0623
k	0.11667 ± 0.00089	0.1169 ± 0.0009
i (°)	88.88 ± 0.25	89.07 ± 0.30
r_A	0.0567 ± 0.0013	0.05574 ± 0.00103
r_b	0.00662 ± 0.00019	0.00652

Table A24. Derived physical properties of the CoRoT-6 system. The upper part of the table contains the individual results from this work; in each case $g_b = 52.3 \pm 6.4 \text{ m s}^{-2}$, $\rho_A = 0.929 \pm 0.064 \rho_\odot$ and $T'_{\text{eq}} = 1025 \pm 16 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	103.8 ± 2.7	105.2 ± 1.8	104.7 ± 1.6	103.9 ± 2.0	104.7 ± 1.9	103.6 ± 1.7
M_A (M _⊙)	1.036 ± 0.080	1.077 ± 0.055	1.062 ± 0.049	1.039 ± 0.059	1.063 ± 0.058	1.030 ± 0.050
R_A (R _⊙)	1.037 ± 0.038	1.051 ± 0.028	1.046 ± 0.028	1.038 ± 0.029	1.046 ± 0.028	1.035 ± 0.028
log g_A (cgs)	4.422 ± 0.022	4.428 ± 0.022	4.426 ± 0.021	4.422 ± 0.022	4.426 ± 0.022	4.421 ± 0.022
M_b (M _{Jup})	2.93 ± 0.35	3.00 ± 0.34	2.98 ± 0.33	2.93 ± 0.33	2.98 ± 0.34	2.92 ± 0.33
R_b (R _{Jup})	1.178 ± 0.045	1.193 ± 0.040	1.188 ± 0.039	1.179 ± 0.041	1.188 ± 0.040	1.176 ± 0.039
ρ_b (ρ _{Jup})	1.67 ± 0.23	1.65 ± 0.23	1.66 ± 0.23	1.67 ± 0.23	1.66 ± 0.23	1.68 ± 0.23
Θ	0.408 ± 0.046	0.402 ± 0.045	0.404 ± 0.045	0.407 ± 0.046	0.404 ± 0.045	0.408 ± 0.046
a (AU)	0.0850 ± 0.0022	0.0861 ± 0.0015	0.0857 ± 0.0013	0.0851 ± 0.0016	0.0858 ± 0.0016	0.0849 ± 0.0014
Age (Gyr)		2.4 ^{+1.7} _{-1.7}	2.3 ^{+1.5} _{-1.1}	2.8 ^{+2.1} _{-1.7}	1.8 ^{+1.8} _{-1.6}	3.1 ^{+1.4} _{-1.3}
	This work (final)	Fridlund et al. (2010)				
M_A (M _⊙)	1.054 ± 0.059 ± 0.024	1.05 ± 0.05				
R_A (R _⊙)	1.043 ± 0.029 ± 0.008	1.025 ± 0.026				
log g_A (cgs)	4.425 ± 0.022 ± 0.003	4.44 ± 0.023				
ρ_A (ρ _⊙)	0.929 ± 0.064					
M_b (M _{Jup})	2.96 ± 0.34 ± 0.05	2.96 ± 0.34				
R_b (R _{Jup})	1.185 ± 0.041 ± 0.009	1.166 ± 0.035				
g_b (m s ⁻¹)	52.3 ± 6.4					
ρ_b (ρ _{Jup})	1.66 ± 0.23 ± 0.01	1.74 ± 0.23				
T'_{eq} (K)	1025 ± 16	1017 ± 19				
Θ	0.405 ± 0.046 ± 0.003					
a (AU)	0.0855 ± 0.0016 ± 0.0007	0.0855 ± 0.0015				
Age (Gyr)	2.5 ^{+2.1} _{-1.7} ^{+0.6} _{-0.7}	1.0 to 3.3				

Table A25. Parameters of the JKTEBOP best fits of the 32s-sampled CoRoT light curve of CoRoT-7, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 160 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.270 ± 0.036	0.239 ± 0.036	0.268 ± 0.041	0.240 ± 0.040	0.170 ± 0.036
k	0.01912 ± 0.00078	0.01828 ± 0.00086	0.01899 ± 0.00087	0.01833 ± 0.00089	0.01701 ± 0.00075
i (deg.)	77.7 ± 2.7	80.2 ± 2.9	77.9 ± 3.0	80.1 ± 3.3	87.5 ± 4.6
u_A	0.65 fixed	0.50 fixed	0.40 fixed	0.73 fixed	0.45 fixed
v_A		0.19 fixed	0.40 fixed	0.18 fixed	0.10 fixed
T_0	-0.00003 ± 0.00039	-0.00015 ± 0.00033	-0.00005 ± 0.00038	-0.00028 ± 0.00037	-0.00014 ± 0.00035
r_A	0.265 ± 0.035	0.234 ± 0.035	0.263 ± 0.040	0.236 ± 0.039	0.167 ± 0.035
r_b	0.00506 ± 0.00086	0.00429 ± 0.00083	0.00500 ± 0.00098	0.00433 ± 0.00091	0.00284 ± 0.00075
σ (mmag)	0.0737	0.0738	0.0736	0.0738	0.0743
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.277 ± 0.038	0.269 ± 0.036	0.271 ± 0.031	0.266 ± 0.034	0.269 ± 0.035
k	0.0183 ± 0.0018	0.0178 ± 0.0015	0.0178 ± 0.0015	0.0176 ± 0.0015	0.0178 ± 0.0017
i (deg.)	78.9 ± 3.1	79.6 ± 2.9	79.5 ± 2.6	79.9 ± 2.8	79.6 ± 2.9
u_A	1.29 ± 0.14	1.16 ± 0.13	1.05 ± 0.12	1.39 ± 0.12	1.25 ± 0.13
v_A		0.19 perturbed	0.40 perturbed	0.18 perturbed	0.10 perturbed
T_0	-0.00043 ± 0.00054	-0.00046 ± 0.00050	-0.00046 ± 0.00046	-0.00050 ± 0.00049	-0.00045 ± 0.00047
r_A	0.272 ± 0.037	0.265 ± 0.035	0.266 ± 0.030	0.261 ± 0.033	0.265 ± 0.034
r_b	0.00498 ± 0.00115	0.00471 ± 0.00103	0.00473 ± 0.00094	0.00460 ± 0.00096	0.00472 ± 0.00104
σ (mmag)	0.0736	0.0734	0.0734	0.0734	0.0734

Table A26. Final parameters of the fit to the light curves of CoRoT-7 from the JKTEBOP analysis, compared to those found by Léger et al. (2009). Quantities without quoted uncertainties were not given by Léger et al. (2009) but have been calculated from other parameters which were.

	This work	Léger et al. (2009)
$r_A + r_b$	0.269 ± 0.040	0.238
k	0.0178 ± 0.0019	0.0187 ± 0.0003
i (°)	79.6 ± 3.2	80.1 ± 0.3
r_A	0.264 ± 0.039	0.234 ± 0.011
r_b	0.0047 ± 0.0012	0.0044

Table A27. Derived physical properties of the CoRoT-7 system. The upper part of the table contains the individual results from this work; in each case. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	220.0 ^{+6.8} _{-7.4}	211.0 ^{+7.3} _{-2.9}	213.1 ^{+2.6} _{-5.0}	208.6 ^{+10.0} _{-2.5}	213.1 ^{+1.9} _{-8.7}	213.1 ^{+2.1} _{-5.6}
M_A (M _⊙)	0.989 ^{+0.090} _{-0.091}	0.873 ^{+0.090} _{-0.019}	0.900 ^{+0.023} _{-0.054}	0.844 ^{+0.111} _{-0.015}	0.900 ^{+0.051} _{-0.103}	0.900 ^{+0.013} _{-0.062}
R_A (R _⊙)	1.00 ^{+0.17} _{-0.17}	0.96 ^{+0.14} _{-0.12}	0.97 ^{+0.13} _{-0.14}	0.95 ^{+0.15} _{-0.12}	0.97 ^{+0.14} _{-0.15}	0.97 ^{+0.14} _{-0.14}
log g_A (cgs)	4.44 ^{+0.13} _{-0.11}	4.42 ^{+0.15} _{-0.12}	4.42 ^{+0.14} _{-0.12}	4.41 ^{+0.15} _{-0.12}	4.42 ^{+0.14} _{-0.12}	4.42 ^{+0.14} _{-0.12}
M_b (M _{Jup})	0.0237 ^{+0.0053} _{-0.0053}	0.0218 ^{+0.0050} _{-0.0047}	0.0223 ^{+0.0048} _{-0.0049}	0.0214 ^{+0.0049} _{-0.0046}	0.0223 ^{+0.0048} _{-0.0051}	0.0223 ^{+0.0048} _{-0.0049}
R_b (R _{Jup})	0.173 ^{+0.044} _{-0.044}	0.166 ^{+0.043} _{-0.042}	0.167 ^{+0.043} _{-0.043}	0.164 ^{+0.042} _{-0.042}	0.167 ^{+0.043} _{-0.043}	0.167 ^{+0.043} _{-0.043}
ρ_b (ρ _{Jup})	4.3 ^{+6.2} _{-2.3}	4.5 ^{+6.5} _{-2.4}	4.5 ^{+6.4} _{-2.4}	4.6 ^{+6.5} _{-2.5}	4.5 ^{+6.4} _{-2.4}	4.5 ^{+6.4} _{-2.4}
Θ	0.0049 ^{+0.0020} _{-0.0015}	0.0051 ^{+0.0021} _{-0.0015}	0.0050 ^{+0.0020} _{-0.0015}	0.0051 ^{+0.0021} _{-0.0015}	0.0050 ^{+0.0021} _{-0.0015}	0.0050 ^{+0.0020} _{-0.0015}
a (AU)	0.01755 ^{+0.00052} _{-0.00055}	0.01683 ^{+0.00056} _{-0.00012}	0.01700 ^{+0.00015} _{-0.00034}	0.01664 ^{+0.00072} _{-0.00032}	0.01700 ^{+0.00033} _{-0.00067}	0.01700 ^{+0.00084} _{-0.00040}
Age (Gyr)		15.2 ^{+3.4} _{-15.5}	7.2 ^{+11.1} _{-5.7}	16.4 ^{+0.8} _{-27.1}	3.2 ^{+18.9} _{-0.0}	5.0 ^{+10.4} _{-3.9}
	This work (final)		Léger et al. (2009)	Queloz et al. (2009)	Bruntt et al. (2010)	
M_A (M _⊙)	0.88 ^{+0.11} _{-0.10} ^{+0.02} _{-0.04}		0.93 ± 0.03		0.91 ± 0.03	
R_A (R _⊙)	0.96 ^{+0.15} _{-0.15} ^{+0.01} _{-0.01}		0.87 ± 0.04		0.82 ± 0.04	
log g_A (cgs)	4.42 ^{+0.15} _{-0.12} ^{+0.00} _{-0.01}		4.50 ± 0.10		4.45 ± 0.05	
ρ_A (ρ _⊙)	1.00 ^{+0.62} _{-0.34}		1.1			
M_b (M _{Jup})	0.0220 ^{+0.0050} _{-0.0051} ^{+0.0003} _{-0.0007}		< 0.066	0.015 ± 0.005		
R_b (R _{Jup})	0.166 ^{+0.043} _{-0.043} ^{+0.001} _{-0.002}		0.150 ± 0.008		0.141 ± 0.009	
g_b (m s ⁻¹)	19.8 ^{+16.4} _{-8.4}					
ρ_b (ρ _{Jup})	4.5 ^{+6.5} _{-2.5} ^{+0.1} _{-0.0}			4.2 ± 1.0	5.4 ± 1.4	
T'_{eq} (K)	1910 ⁺¹⁴⁰ ₋₁₅₀		1810 ± 90			
Θ	0.0051 ^{+0.0021} _{-0.0015} ^{+0.0001} _{-0.0000}					
a (AU)	0.01690 ^{+0.00072} _{-0.00067} ^{+0.00011} _{-0.00025}		0.0172 ± 0.00029	0.017		
Age (Gyr)	unconstrained		1.2 to 2.3		1.2 to 2.3	
		Hatzes et al. (2010)	Pont et al. (2011)	Ferraz-Mello et al. (2010)	Boisse et al. (2011)	
M_A (M _⊙)						
R_A (R _⊙)						
log g_A (cgs)						
ρ_A (ρ _⊙)						
M_b (M _{Jup})		0.022 ± 0.004	0.003 to 0.013	0.027 ± 0.005	0.018 ± 0.008	
R_b (R _{Jup})						
g_b (m s ⁻¹)						
ρ_b (ρ _{Jup})						
T'_{eq} (K)						
Θ						
a (AU)		0.017				
Age (Gyr)						

Table A28. Parameters of the JKTEBOP best fits of the CoRoT 32s-sampled light curve of CoRoT-8, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 485 phase-binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.0708 ± 0.0057	0.0583 ± 0.0048	0.0726 ± 0.0054	0.0715 ± 0.0052	0.0708 ± 0.0058
k	0.0816 ± 0.0022	0.0729 ± 0.0020	0.0820 ± 0.0017	0.0816 ± 0.0017	0.0808 ± 0.0020
i (deg.)	87.51 ± 0.46	89.02 ± 0.84	87.36 ± 0.41	87.45 ± 0.41	87.53 ± 0.46
u_A	0.68 fixed	0.56 fixed	0.36 fixed	0.72 fixed	0.55 fixed
v_A		0.54 fixed	0.41 fixed	0.16 fixed	0.25 fixed
r_A	0.0655 ± 0.0052	0.0543 ± 0.0044	0.0671 ± 0.0049	0.0662 ± 0.0048	0.0656 ± 0.0053
r_b	0.00534 ± 0.00055	0.00396 ± 0.00042	0.00550 ± 0.00051	0.00540 ± 0.00049	0.00530 ± 0.00054
σ (mmag)	0.6811	0.6823	0.6799	0.6801	0.6801
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.0719 ± 0.0052	0.0721 ± 0.0066	0.0716 ± 0.0056	0.0713 ± 0.0057	0.0711 ± 0.0068
k	0.0822 ± 0.0017	0.0808 ± 0.0020	0.0817 ± 0.0019	0.0816 ± 0.0020	0.0811 ± 0.0021
i (deg.)	87.39 ± 0.42	87.40 ± 0.54	87.42 ± 0.46	87.45 ± 0.48	87.48 ± 0.58
u_A	0.60 ± 0.10	0.21 ± 0.17	0.34 ± 0.12	0.69 ± 0.12	0.50 ± 0.13
v_A		0.54 perturbed	0.41 perturbed	0.16 perturbed	0.25 perturbed
r_A	0.0664 ± 0.0047	0.0668 ± 0.0060	0.0662 ± 0.0051	0.0659 ± 0.0051	0.0658 ± 0.0061
r_b	0.00546 ± 0.00049	0.00539 ± 0.00060	0.00541 ± 0.00053	0.00538 ± 0.00055	0.00533 ± 0.00064
σ (mmag)	0.6801	0.6794	0.6800	0.6800	0.6798
Fitting for both LD coefficients					
$r_A + r_b$	0.0719 ± 0.0052	0.0831 ± 0.0072	0.0744 ± 0.0069	0.0745 ± 0.0067	0.0750 ± 0.0068
k	0.0822 ± 0.0018	0.0744 ± 0.0025	0.0792 ± 0.0038	0.0785 ± 0.0044	0.0785 ± 0.0047
i (deg.)	87.39 ± 0.43	86.86 ± 0.51	87.32 ± 0.56	87.33 ± 0.51	87.30 ± 0.54
u_A	0.60 ± 0.10	-2.44 ± 2.34	-1.75 ± 2.19	1.56 ± 1.03	0.11 ± 0.62
v_A		4.6 ± 2.9	3.8 ± 3.5	1.7 ± 1.8	1.3 ± 1.4
r_A	0.0664 ± 0.0047	0.0774 ± 0.0068	0.0690 ± 0.0063	0.0691 ± 0.0063	0.0695 ± 0.0062
r_b	0.00546 ± 0.00049	0.00576 ± 0.00044	0.00546 ± 0.00066	0.00543 ± 0.00059	0.00546 ± 0.00062
σ (mmag)	0.6801	0.6778	0.6791	0.6789	0.6788

Table A29. Parameters of the JKTEBOP best fits of the 512s-sampled CoRoT light curve of CoRoT-8, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 954 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.0810 ± 0.0083	0.0606 ± 0.0084	0.0825 ± 0.0076	0.0819 ± 0.0074	0.0804 ± 0.0079
k	0.0872 ± 0.0031	0.0754 ± 0.0035	0.0869 ± 0.0025	0.0867 ± 0.0024	0.0856 ± 0.0027
i (deg.)	86.71 ± 0.56	88.60 ± 1.15	86.59 ± 0.51	86.64 ± 0.51	86.77 ± 0.55
u_A	0.68 fixed	0.56 fixed	0.36 fixed	0.72 fixed	0.55 fixed
v_A		0.54 fixed	0.41 fixed	0.16 fixed	0.25 fixed
T_0	239.0349 ± 0.0011	239.0352 ± 0.0011	239.0350 ± 0.0011	239.0349 ± 0.0011	239.0349 ± 0.0011
r_A	0.0745 ± 0.0074	0.0564 ± 0.0075	0.0759 ± 0.0068	0.0754 ± 0.0066	0.0740 ± 0.0071
r_b	0.00649 ± 0.00085	0.00425 ± 0.00077	0.00660 ± 0.00076	0.00654 ± 0.00075	0.00634 ± 0.00079
σ (mmag)	1.2479	1.2470	1.2477	1.2478	1.2476
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.074 ± 0.011	0.065 ± 0.012	0.074 ± 0.012	0.073 ± 0.012	0.070 ± 0.013
k	0.0843 ± 0.0047	0.0782 ± 0.0059	0.0838 ± 0.0049	0.0834 ± 0.0053	0.0816 ± 0.0054
i (deg.)	87.27 ± 0.95	88.10 ± 1.51	87.27 ± 1.00	87.33 ± 1.19	87.58 ± 1.36
u_A	0.73 ± 0.15	0.48 ± 0.29	0.48 ± 0.18	0.83 ± 0.19	0.67 ± 0.21
v_A		0.54 perturbed	0.41 perturbed	0.16 perturbed	0.25 perturbed
T_0	239.0349 ± 0.0011	239.0351 ± 0.0010	239.0350 ± 0.0011	239.0350 ± 0.0011	239.0350 ± 0.0011
r_A	0.068 ± 0.010	0.060 ± 0.011	0.068 ± 0.011	0.067 ± 0.011	0.065 ± 0.011
r_b	0.0057 ± 0.0012	0.0047 ± 0.0012	0.0057 ± 0.0012	0.0056 ± 0.0013	0.0053 ± 0.0013
σ (mmag)	1.2479	1.2470	1.2477	1.2477	1.2473
Fitting for both LD coefficients					
$r_A + r_b$	0.074 ± 0.011	0.067 ± 0.012	0.072 ± 0.012	0.071 ± 0.011	0.074 ± 0.011
k	0.0843 ± 0.0048	0.0766 ± 0.0082	0.0794 ± 0.0076	0.0787 ± 0.0084	0.0796 ± 0.0083
i (deg.)	87.27 ± 0.98	88.02 ± 1.26	87.57 ± 1.08	87.63 ± 0.95	87.38 ± 0.86
u_A	0.73 ± 0.15	0.19 ± 1.17	-0.97 ± 2.49	1.54 ± 1.14	0.44 ± 0.66
v_A		1.1 ± 1.8	2.9 ± 4.1	1.2 ± 1.8	1.0 ± 1.5
T_0	239.0349 ± 0.0011	239.0351 ± 0.0011	239.0350 ± 0.0010	239.0350 ± 0.0011	239.0350 ± 0.0010
r_A	0.0678 ± 0.0101	0.0621 ± 0.0111	0.0665 ± 0.0112	0.0660 ± 0.0096	0.0690 ± 0.0100
r_b	0.0057 ± 0.0012	0.0048 ± 0.0013	0.0053 ± 0.0013	0.0052 ± 0.0012	0.0055 ± 0.0012
σ (mmag)	1.2479	1.2467	1.2471	1.2469	1.2469

Table A30. Final parameters of the fit to the light curves of CoRoT-8 from the JKTEBOP analysis, compared to those found by Bordé et al. (2010). Quantities without quoted uncertainties were not given by Bordé et al. (2010) but have been calculated from other parameters which were.

	This work (32s sampling)	This work (512s sampling)	This work (final)	Bordé et al. (2010)
$r_A + r_b$	0.0715 ± 0.0070	0.070 ± 0.013	0.0713 ± 0.0062	0.0611
k	0.0813 ± 0.0022	0.0820 ± 0.0060	0.0814 ± 0.0021	0.075 ± 0.001
i ($^\circ$)	87.44 ± 0.60	87.5 ± 1.5	87.44 ± 0.56	88.4 ± 0.1
r_A	0.0662 ± 0.0064	0.065 ± 0.012	0.0659 ± 0.0056	0.0568 ± 0.0013
r_b	0.00538 ± 0.00066	0.0053 ± 0.0014	0.00537 ± 0.00060	0.00426

Table A31. Derived physical properties of the CoRoT-8 system. The upper part of the table contains the individual results from this work; in each case $g_b = 10.6 \pm 2.9 \text{ m s}^{-2}$, $\rho_A = 1.21 \pm 0.32 \rho_\odot$ and $T'_{\text{eq}} = 922 \pm 41 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	115.85 ± 2.96	111.69 ± 0.96	111.07 ± 1.08	110.06 ± 3.27	109.27 ± 3.32	111.69 ± 1.07
M_A (M _⊙)	1.004 ± 0.077	0.900 ± 0.023	0.885 ± 0.026	0.861 ± 0.077	0.843 ± 0.078	0.900 ± 0.025
R_A (R _⊙)	0.939 ± 0.093	0.905 ± 0.070	0.900 ± 0.076	0.892 ± 0.081	0.886 ± 0.090	0.905 ± 0.076
log g_A (cgs)	4.495 ± 0.070	4.479 ± 0.077	4.477 ± 0.075	4.473 ± 0.075	4.470 ± 0.071	4.479 ± 0.075
M_b (M _{Jup})	0.236 ± 0.038	0.219 ± 0.034	0.217 ± 0.034	0.213 ± 0.036	0.210 ± 0.036	0.219 ± 0.034
R_b (R _{Jup})	0.744 ± 0.085	0.718 ± 0.081	0.714 ± 0.081	0.707 ± 0.083	0.702 ± 0.083	0.718 ± 0.081
ρ_b (ρ _{Jup})	0.54 ± 0.21	0.56 ± 0.21	0.56 ± 0.21	0.56 ± 0.21	0.57 ± 0.21	0.56 ± 0.21
Θ	0.0418 ± 0.0081	0.0433 ± 0.0083	0.0436 ± 0.0083	0.0440 ± 0.0084	0.0443 ± 0.0084	0.0433 ± 0.0083
a (AU)	0.06624 ± 0.00169	0.06386 ± 0.00054	0.06350 ± 0.00061	0.06293 ± 0.00187	0.06248 ± 0.00189	0.06386 ± 0.00061
Age (Gyr)		7.7 ^{+2.6} _{-8.1}	9.5 ^{+0.5} _{-10.3}	10.0 ^{+0.0} _{-17.3}	10.0 ^{+0.0} _{-22.3}	5.6 ^{+5.0} _{-3.1}
	This work (final)	Bordé et al. (2010)				
M_A (M _⊙)	0.878 ± 0.078 ± 0.035	0.88 ± 0.04				
R_A (R _⊙)	0.898 ± 0.090 ± 0.012	0.77 ± 0.02				
log g_A (cgs)	4.475 ± 0.077 ± 0.006	4.61 ± 0.07				
ρ_A (ρ _⊙)	1.21 ± 0.32	1.9 ± 0.1				
M_b (M _{Jup})	0.216 ± 0.036 ± 0.006	0.22 ± 0.03				
R_b (R _{Jup})	0.712 ± 0.083 ± 0.010	0.57 ± 0.02				
g_b (m s ⁻²)	10.6 ± 2.9					
ρ_b (ρ _{Jup})	0.56 ± 0.21 ± 0.01	1.2 ± 0.1				
T'_{eq} (K)	922 ± 41					
Θ	0.0437 ± 0.0084 ± 0.0006					
a (AU)	0.0633 ± 0.0019 ± 0.0008	0.063 ± 0.001				
Age (Gyr)	8.6 ^{+5.0} _{-22.3} ^{+1.4} _{-3.0}	< 3				

Table A32. Parameters of the JKTEBOP best fits of the 32s-sampled CoRoT light curve of CoRoT-9, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 944 binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.01240 ± 0.00083	0.01250 ± 0.00074	0.01243 ± 0.00079	0.01216 ± 0.00074	0.01201 ± 0.00073
k	0.11142 ± 0.00160	0.11218 ± 0.00099	0.11274 ± 0.00109	0.11294 ± 0.00102	0.11393 ± 0.00092
i (deg.)	89.95 ± 0.13	89.96 ± 0.11	89.95 ± 0.12	89.95 ± 0.12	89.95 ± 0.11
u_A	0.64 fixed	0.46 fixed	0.23 fixed	0.69 fixed	0.45 fixed
v_A		0.22 fixed	0.53 fixed	0.24 fixed	0.10 fixed
P	95.2707 ± 0.0015	95.2706 ± 0.0013	95.2707 ± 0.0013	95.2706 ± 0.0013	95.2706 ± 0.0013
T_0	603.34444 ± 0.00072	603.34453 ± 0.00073	603.34456 ± 0.00071	603.34457 ± 0.00071	603.34462 ± 0.00066
r_A	0.01116 ± 0.00073	0.01124 ± 0.00066	0.01117 ± 0.00071	0.01093 ± 0.00066	0.01078 ± 0.00064
r_b	0.001243 ± 0.000095	0.001261 ± 0.000082	0.001259 ± 0.000087	0.001234 ± 0.000081	0.001228 ± 0.000080
σ (mmag)	1.4035	1.3924	1.3901	1.3891	1.3875
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.01203 ± 0.00068	0.01216 ± 0.00071	0.01206 ± 0.00074	0.01210 ± 0.00076	0.01195 ± 0.00071
k	0.1146 ± 0.0012	0.1137 ± 0.0014	0.1138 ± 0.0013	0.1137 ± 0.0013	0.1140 ± 0.0013
i (deg.)	89.90 ± 0.12	89.98 ± 0.13	89.98 ± 0.12	89.98 ± 0.13	89.96 ± 0.12
u_A	0.464 ± 0.041	0.368 ± 0.054	0.161 ± 0.055	0.641 ± 0.066	0.445 ± 0.044
v_A		0.22 perturbed	0.53 perturbed	0.24 perturbed	0.10 perturbed
P	95.2706 ± 0.0012	95.2706 ± 0.0013	95.2706 ± 0.0012	95.2706 ± 0.0013	95.2706 ± 0.0013
T_0	603.34465 ± 0.00071	603.34463 ± 0.00069	603.34463 ± 0.00071	603.34463 ± 0.00067	603.34462 ± 0.00066
r_A	0.01079 ± 0.00061	0.01092 ± 0.00063	0.01083 ± 0.00065	0.01086 ± 0.00067	0.01073 ± 0.00063
r_b	0.001236 ± 0.000077	0.001241 ± 0.000078	0.001232 ± 0.000083	0.001235 ± 0.000083	0.001222 ± 0.000077
σ (mmag)	1.3878	1.3882	1.3877	1.3879	1.3876
Fitting for both LD coefficients					
$r_A + r_b$	0.01203 ± 0.00070	0.01229 ± 0.00075	0.01296 ± 0.00076	0.01278 ± 0.00069	0.01197 ± 0.00073
k	0.1146 ± 0.0013	0.1148 ± 0.0021	0.1168 ± 0.0030	0.1159 ± 0.0030	0.1140 ± 0.0037
i (deg.)	89.90 ± 0.12	89.87 ± 0.13	89.74 ± 0.15	89.78 ± 0.14	89.95 ± 0.12
u_A	0.464 ± 0.041	0.475 ± 0.171	0.912 ± 1.029	0.367 ± 0.493	0.453 ± 0.085
v_A		-0.03 ± 0.34	-0.78 ± 1.78	-0.13 ± 0.63	0.07 ± 0.66
P	95.2706 ± 0.0013	95.2706 ± 0.0013	95.2706 ± 0.0014	95.2706 ± 0.0014	95.2706 ± 0.0013
T_0	603.34465 ± 0.00068	603.34466 ± 0.00066	603.34473 ± 0.00070	603.34473 ± 0.00068	603.34462 ± 0.00066
r_A	0.01079 ± 0.00062	0.01102 ± 0.00066	0.01161 ± 0.00068	0.01145 ± 0.00062	0.01075 ± 0.00067
r_b	0.001236 ± 0.000079	0.001266 ± 0.000082	0.001356 ± 0.000097	0.001327 ± 0.000087	0.001226 ± 0.000079
σ (mmag)	1.3878	1.3880	1.3899	1.3889	1.3875

Table A33. Final parameters of the fit to the light curves of CoRoT-9 from the JKTEBOP analysis, compared to those found by Deeg et al. (2010). Quantities without quoted uncertainties were not given by Deeg et al. (2010) but have been calculated from other parameters which were.

	This work	Deeg et al. (2010)
$r_A + r_b$	0.01207 ± 0.00081	0.01204
k	0.1138 ± 0.0015	0.115 ± 0.001
i ($^\circ$)	$89.97^{+0.03}_{-0.13}$	$89.99^{+0.01}_{-0.04}$
r_A	0.01083 ± 0.00072	0.0108 ± 0.0003
r_b	0.001233 ± 0.000089	0.001242

Table A34. Derived physical properties of the GOAT system. The upper part of the table contains the individual results from this work; in each case $g_b = 19.1 \pm 3.2 \text{ m s}^{-2}$, $\rho_A = 1.16 \pm 0.24 \rho_\odot$ and $T'_{\text{eq}} = 413 \pm 14 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	46.77 ± 1.18	46.88 ± 0.91	46.48 ± 0.54	46.03 ± 1.11	45.67 ± 1.13	46.10 ± 0.93
M_A (M _⊙)	0.993 ± 0.074	1.000 ± 0.056	0.975 ± 0.031	0.947 ± 0.068	0.925 ± 0.067	0.951 ± 0.057
R_A (R _⊙)	0.949 ± 0.075	0.951 ± 0.055	0.943 ± 0.058	0.934 ± 0.058	0.927 ± 0.058	0.935 ± 0.059
log g_A (cgs)	4.481 ± 0.055	4.482 ± 0.063	4.478 ± 0.060	4.474 ± 0.063	4.470 ± 0.063	4.474 ± 0.061
M_b (M _{Jup})	0.845 ± 0.079	0.849 ± 0.075	0.835 ± 0.068	0.819 ± 0.076	0.806 ± 0.080	0.821 ± 0.073
R_b (R _{Jup})	1.049 ± 0.081	1.051 ± 0.080	1.042 ± 0.077	1.032 ± 0.080	1.024 ± 0.081	1.034 ± 0.079
ρ_b (ρ _{Jup})	0.69 ± 0.16	0.68 ± 0.16	0.69 ± 0.16	0.70 ± 0.17	0.70 ± 0.17	0.70 ± 0.17
Θ	0.661 ± 0.073	0.659 ± 0.072	0.665 ± 0.072	0.671 ± 0.074	0.676 ± 0.076	0.670 ± 0.074
a (AU)	0.4074 ± 0.0101	0.4084 ± 0.0076	0.4049 ± 0.0043	0.4010 ± 0.0095	0.3979 ± 0.0094	0.4016 ± 0.0079
Age (Gyr)		3.3 ^{+7.2} _{-3.7}	0.0 ^{+12.8} _{-0.0}	5.9 ^{+4.4} _{-7.3}	8.0 ^{+0.0} _{-11.6}	5.1 ^{+3.9} _{-7.0}
	This work (final)	Deeg et al. (2010)				
M_A (M _⊙)	0.960 ± 0.068 ± 0.040	0.99 ± 0.04				
R_A (R _⊙)	0.938 ± 0.059 ± 0.013	0.94 ± 0.04				
log g_A (cgs)	4.476 ± 0.063 ± 0.006	4.49 ± 0.04				
ρ_A (ρ _⊙)	1.16 ± 0.24	1.19 ± 0.14				
M_b (M _{Jup})	0.826 ± 0.080 ± 0.023	0.84 ± 0.07				
R_b (R _{Jup})	1.037 ± 0.081 ± 0.014	1.05 ± 0.04				
g_b (m s ⁻¹)	19.1 ± 3.2					
ρ_b (ρ _{Jup})	0.69 ± 0.17 ± 0.01	0.68 ± 0.10				
T'_{eq} (K)	413 ± 14	250 to 430				
Θ	0.668 ± 0.076 ± 0.009					
a (AU)	0.4027 ± 0.0095 ± 0.0056	0.407 ± 0.005				
Age (Gyr)	4.5 ^{+12.8} _{-11.6} ± 3.5 ^{+3.5} _{-4.4}					

Table A35. Parameters of the JKTEBOP best fits of the 32s-sampled CoRoT light curve of CoRoT-10, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 359 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.0372 ± 0.0025	0.0375 ± 0.0027	0.0377 ± 0.0026	0.0380 ± 0.0026	0.0382 ± 0.0024
k	0.1304 ± 0.0027	0.1296 ± 0.0030	0.1293 ± 0.0029	0.1289 ± 0.0030	0.1279 ± 0.0027
i (deg.)	88.51 ± 0.20	88.48 ± 0.20	88.47 ± 0.20	88.44 ± 0.20	88.42 ± 0.18
u_A	0.68 fixed	0.56 fixed	0.38 fixed	0.73 fixed	0.50 fixed
v_A		0.14 fixed	0.41 fixed	0.20 fixed	0.07 fixed
r_A	0.0329 ± 0.0022	0.0332 ± 0.0024	0.0333 ± 0.0023	0.0337 ± 0.0023	0.0338 ± 0.0021
r_B	0.00429 ± 0.00034	0.00430 ± 0.00036	0.00431 ± 0.00034	0.00435 ± 0.00035	0.00433 ± 0.00032
σ (mmag)	1.0896	1.0897	1.0897	1.0897	1.0897
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.0388 ± 0.0029	0.0371 ± 0.0029	0.0372 ± 0.0029	0.0384 ± 0.0028	0.0354 ± 0.0029
k	0.1258 ± 0.0076	0.1279 ± 0.0058	0.1279 ± 0.0051	0.1256 ± 0.0065	0.1296 ± 0.0050
i (deg.)	88.36 ± 0.24	88.49 ± 0.21	88.49 ± 0.21	88.39 ± 0.22	88.63 ± 0.22
u_A	0.34 ± 0.87	0.46 ± 0.60	0.30 ± 0.55	0.48 ± 0.81	0.60 ± 0.38
v_A		0.14 perturbed	0.41 perturbed	0.20 perturbed	0.07 perturbed
r_A	0.0344 ± 0.0026	0.0329 ± 0.0026	0.0330 ± 0.0025	0.0341 ± 0.0025	0.0314 ± 0.0025
r_B	0.00433 ± 0.00042	0.00421 ± 0.00039	0.00422 ± 0.00037	0.00429 ± 0.00039	0.00407 ± 0.00038
σ (mmag)	1.0903	1.0896	1.0896	1.0900	1.0896
Fitting for both LD coefficients					
$r_A + r_B$	0.0388 ± 0.0029	0.0367 ± 0.0030	0.0369 ± 0.0031	0.0366 ± 0.0029	0.0357 ± 0.0029
k	0.1258 ± 0.0072	0.1307 ± 0.0086	0.1360 ± 0.0116	0.1385 ± 0.0152	0.1243 ± 0.0098
i (deg.)	88.36 ± 0.23	88.52 ± 0.22	88.46 ± 0.24	88.48 ± 0.22	88.69 ± 0.19
u_A	0.34 ± 0.82	0.87 ± 1.02	3.11 ± 1.40	-0.05 ± 0.80	0.41 ± 0.81
v_A		-0.3 ± 1.2	-3.7 ± 2.2	-1.6 ± 1.6	1.0 ± 1.2
r_A	0.0344 ± 0.0026	0.0324 ± 0.0026	0.0325 ± 0.0028	0.0322 ± 0.0028	0.0317 ± 0.0025
r_B	0.00433 ± 0.00041	0.00424 ± 0.00046	0.00442 ± 0.00049	0.00445 ± 0.00051	0.00394 ± 0.00044
σ (mmag)	1.0903	1.0894	1.0895	1.0894	1.0910

Table A36. Parameters of the JKTEBOP best fits of the 512s-sampled CoRoT light curve of CoRoT-10, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 473 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.0366 ± 0.0038	0.0379 ± 0.0040	0.0372 ± 0.0038	0.0369 ± 0.0037	0.0391 ± 0.0045
k	0.136 ± 0.013	0.137 ± 0.019	0.137 ± 0.017	0.135 ± 0.014	0.140 ± 0.029
i (deg.)	88.57 ± 0.27	88.48 ± 0.30	88.53 ± 0.29	88.54 ± 0.27	88.39 ± 0.32
u_A	0.68 fixed	0.56 fixed	0.38 fixed	0.73 fixed	0.50 fixed
v_A		0.14 fixed	0.41 fixed	0.20 fixed	0.07 fixed
T_0	273.34507 ± 0.00093	273.34496 ± 0.00093	273.34502 ± 0.00092	273.34504 ± 0.00087	273.34481 ± 0.00096
r_A	0.0322 ± 0.0029	0.0333 ± 0.0030	0.0327 ± 0.0029	0.0325 ± 0.0029	0.0343 ± 0.0030
r_b	0.00439 ± 0.00076	0.00458 ± 0.00103	0.00447 ± 0.00093	0.00440 ± 0.00079	0.00480 ± 0.00143
σ (mmag)	1.6404	1.6399	1.6401	1.6403	1.6404
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.0378 ± 0.0046	0.0369 ± 0.0046	0.0365 ± 0.0043	0.0366 ± 0.0042	0.0362 ± 0.0045
k	0.1392 ± 0.0127	0.1368 ± 0.0102	0.1358 ± 0.0097	0.1359 ± 0.0093	0.1363 ± 0.0096
i (deg.)	88.58 ± 0.27	88.64 ± 0.28	88.66 ± 0.25	88.66 ± 0.25	88.70 ± 0.25
u_A	1.12 ± 0.27	1.01 ± 0.25	0.83 ± 0.28	1.19 ± 0.27	1.10 ± 0.24
v_A		0.14 perturbed	0.41 perturbed	0.20 perturbed	0.07 perturbed
T_0	273.34513 ± 0.00091	273.34519 ± 0.00091	273.34524 ± 0.00092	273.34522 ± 0.00086	273.34527 ± 0.00089
r_A	0.0332 ± 0.0036	0.0325 ± 0.0036	0.0321 ± 0.0035	0.0323 ± 0.0034	0.0319 ± 0.0037
r_b	0.00462 ± 0.00086	0.00444 ± 0.00079	0.00436 ± 0.00076	0.00439 ± 0.00069	0.00435 ± 0.00076
σ (mmag)	1.6371	1.6375	1.6380	1.6378	1.6375
Fitting for both LD coefficients					
$r_A + r_b$	0.0378 ± 0.0043	0.0384 ± 0.0043	0.0383 ± 0.0044	0.0287 ± 0.0036	0.0371 ± 0.0051
k	0.139 ± 0.012	0.136 ± 0.017	0.141 ± 0.017	0.088 ± 0.011	0.124 ± 0.023
i (deg.)	88.58 ± 0.26	88.53 ± 0.25	88.56 ± 0.28	89.49 ± 0.39	88.77 ± 0.31
u_A	1.12 ± 0.27	0.41 ± 1.11	1.93 ± 1.10	-0.03 ± 0.30	1.93 ± 0.37
v_A		0.79 ± 1.26	-1.14 ± 1.52	-2.68 ± 0.52	-1.09 ± 0.67
T_0	273.34513 ± 0.00086	273.34502 ± 0.00091	273.34511 ± 0.00094	273.34594 ± 0.00081	273.34540 ± 0.00095
r_A	0.0332 ± 0.0034	0.0338 ± 0.0034	0.0336 ± 0.0035	0.0264 ± 0.0031	0.0330 ± 0.0043
r_b	0.00462 ± 0.00082	0.00458 ± 0.00087	0.00475 ± 0.00097	0.00233 ± 0.00053	0.00410 ± 0.00108
σ (mmag)	1.6371	1.6377	1.6361	1.6282	1.6348

Table A37. Final parameters of the fit to the light curves of CoRoT-10 from the JKTEBOP analysis, compared to those found by Bonomo et al. (2010). Quantities without quoted uncertainties were not given by Bonomo et al. (2010) but have been calculated from other parameters which were.

	This work (32s sampling)	This work (512s sampling)	This work (final)	Bonomo et al. (2010)
$r_A + r_b$	0.0371 ± 0.0032	0.0366 ± 0.0046	0.0369 ± 0.0026	0.03597
k	0.1280 ± 0.0069	0.1362 ± 0.0104	0.1305 ± 0.0057	0.1269 ± 0.0038
i ($^\circ$)	88.50 ± 0.24	88.66 ± 0.28	88.57 ± 0.18	88.55 ± 0.2
r_A	0.0329 ± 0.0028	0.0322 ± 0.0038	0.0326 ± 0.0023	0.03192 ± 0.00220
r_b	0.00419 ± 0.00043	0.00438 ± 0.00080	0.00424 ± 0.00038	0.004051

Table A38. Derived physical properties of the CoRoT-10 system. The upper part of the table contains the individual results from this work; in each case $g_b = 78 \pm 14 \text{ m s}^{-2}$, $\rho_A = 2.20 \pm 0.47 \rho_\odot$ and $T'_{\text{eq}} = 647 \pm 24 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	102.5 ± 4.0	103.2 ± 3.2	102.2 ± 3.2	102.4 ± 3.2	101.9 ± 3.1	102.2 ± 3.2
M_A (M _⊙)	0.906 ± 0.070	0.926 ± 0.023	0.900 ± 0.025	0.905 ± 0.022	0.891 ± 0.021	0.900 ± 0.027
R_A (R _⊙)	0.744 ± 0.062	0.749 ± 0.055	0.742 ± 0.055	0.744 ± 0.053	0.740 ± 0.051	0.742 ± 0.055
log g_A (cgs)	4.652 ± 0.058	4.656 ± 0.061	4.651 ± 0.060	4.652 ± 0.061	4.650 ± 0.062	4.651 ± 0.060
M_b (M _{Jup})	2.79 ± 0.19	2.83 ± 0.13	2.78 ± 0.13	2.78 ± 0.13	2.76 ± 0.13	2.78 ± 0.14
R_b (R _{Jup})	0.941 ± 0.088	0.948 ± 0.085	0.939 ± 0.085	0.941 ± 0.085	0.936 ± 0.084	0.939 ± 0.085
ρ_b (ρ _{Jup})	3.13 ± 0.88	3.10 ± 0.87	3.13 ± 0.88	3.13 ± 0.88	3.14 ± 0.88	3.13 ± 0.88
Θ	0.693 ± 0.072	0.688 ± 0.070	0.694 ± 0.070	0.693 ± 0.070	0.697 ± 0.070	0.694 ± 0.070
a (AU)	0.10609 ± 0.00271	0.10688 ± 0.00090	0.10585 ± 0.00097	0.10603 ± 0.00086	0.10549 ± 0.00082	0.10585 ± 0.00107
Age (Gyr)		0.0 ^{+0.0} _{-0.0}	0.5 ^{+0.2} _{-0.0}	0.0 ^{+1.1} _{-0.0}	0.0 ^{+2.0} _{-0.0}	0.1 ^{+0.1} _{-0.2}
	This work (final)	Bonomo et al. (2010)				
M_A (M _⊙)	0.904 ± 0.027 ± 0.022	0.89 ± 0.05				
R_A (R _⊙)	0.743 ± 0.055 ± 0.006	0.79 ± 0.05				
log g_A (cgs)	4.652 ± 0.062 ± 0.004	4.65 ± 0.10				
ρ_A (ρ _⊙)	2.20 ± 0.47	2.36 ± 0.50				
M_b (M _{Jup})	2.78 ± 0.14 ± 0.05	2.75 ± 0.16				
R_b (R _{Jup})	0.941 ± 0.085 ± 0.008	0.97 ± 0.07				
g_b (m s ⁻¹)	78 ± 14	85 ± 16				
ρ_b (ρ _{Jup})	3.13 ± 0.88 ± 0.03	2.79 ± 0.63				
T'_{eq} (K)	647 ± 24	600 ± 23				
Θ	0.693 ± 0.070 ± 0.006					
a (AU)	0.1060 ± 0.0011 ± 0.0009	0.1055 ± 0.0021				
Age (Gyr)	0.1 ^{+2.0 +0.3} _{-0.2 -0.1}					

Table A39. Parameters of the JKTEBOP best fits of the 32s-sampled CoRoT light curve of CoRoT-11, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 527 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.1570 ± 0.0017	0.1571 ± 0.0017	0.1573 ± 0.0017	0.1591 ± 0.0016	0.1610 ± 0.0015
k	0.10749 ± 0.00092	0.10619 ± 0.00092	0.10643 ± 0.00091	0.10610 ± 0.00091	0.10599 ± 0.00091
i (deg.)	83.415 ± 0.113	83.427 ± 0.110	83.418 ± 0.107	83.264 ± 0.102	83.096 ± 0.096
u_A	0.58 fixed	0.35 fixed	0.12 fixed	0.64 fixed	0.35 fixed
v_A		0.29 fixed	0.69 fixed	0.28 fixed	0.15 fixed
r_A	0.1417 ± 0.0015	0.1420 ± 0.0015	0.1422 ± 0.0015	0.1438 ± 0.0014	0.1455 ± 0.0014
r_b	0.01524 ± 0.00020	0.01508 ± 0.00021	0.01513 ± 0.00020	0.01526 ± 0.00019	0.01543 ± 0.00018
σ (mmag)	0.3090	0.3093	0.3092	0.3088	0.3091
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.1588 ± 0.0021	0.1596 ± 0.0021	0.1594 ± 0.0022	0.1595 ± 0.0021	0.1593 ± 0.0021
k	0.10724 ± 0.00100	0.10592 ± 0.00096	0.10619 ± 0.00093	0.10604 ± 0.00109	0.10636 ± 0.00105
i (deg.)	83.26 ± 0.16	83.22 ± 0.17	83.24 ± 0.17	83.23 ± 0.17	83.23 ± 0.16
u_A	0.517 ± 0.057	0.261 ± 0.084	0.046 ± 0.074	0.626 ± 0.070	0.418 ± 0.070
v_A		0.29 perturbed	0.69 perturbed	0.28 perturbed	0.15 perturbed
r_A	0.1435 ± 0.0019	0.1443 ± 0.0020	0.1441 ± 0.0020	0.1442 ± 0.0020	0.1440 ± 0.0019
r_b	0.01538 ± 0.00020	0.01528 ± 0.00021	0.01530 ± 0.00021	0.01529 ± 0.00022	0.01532 ± 0.00020
σ (mmag)	0.3086	0.3087	0.3088	0.3088	0.3087
Fitting for both LD coefficients					
$r_A + r_b$	0.1588 ± 0.0020	0.1549 ± 0.0031	0.1556 ± 0.0027	0.1555 ± 0.0029	0.1557 ± 0.0026
k	0.1072 ± 0.0009	0.1147 ± 0.0053	0.1127 ± 0.0034	0.1132 ± 0.0043	0.1131 ± 0.0042
i (deg.)	83.26 ± 0.15	83.50 ± 0.20	83.42 ± 0.16	83.44 ± 0.18	83.43 ± 0.17
u_A	0.52 ± 0.06	1.53 ± 0.54	2.36 ± 0.95	0.15 ± 0.21	1.03 ± 0.30
v_A		-1.14 ± 0.60	-2.63 ± 1.35	-1.03 ± 0.61	-0.75 ± 0.43
r_A	0.1435 ± 0.0018	0.1390 ± 0.0033	0.1399 ± 0.0027	0.1397 ± 0.0031	0.1399 ± 0.0028
r_b	0.01538 ± 0.00020	0.01595 ± 0.00040	0.01576 ± 0.00028	0.01582 ± 0.00035	0.01581 ± 0.00035
σ (mmag)	0.3086	0.3083	0.3083	0.3083	0.3083

Table A40. Parameters of the JKTEBOP best fits of the CoRoT 512s-sampled light curve of CoRoT-11, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 703 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.1635 ± 0.0037	0.1634 ± 0.0037	0.1636 ± 0.0037	0.1652 ± 0.0036	0.1668 ± 0.0032
k	0.1081 ± 0.0012	0.1067 ± 0.0012	0.1069 ± 0.0012	0.1065 ± 0.0011	0.1062 ± 0.0011
i (deg.)	82.96 ± 0.23	82.98 ± 0.23	82.97 ± 0.23	82.84 ± 0.22	82.69 ± 0.19
u_A	0.58 fixed	0.35 fixed	0.12 fixed	0.64 fixed	0.35 fixed
v_A		0.29 fixed	0.69 fixed	0.28 fixed	0.15 fixed
T_0	597.67989 ± 0.00022	597.67989 ± 0.00022	597.67989 ± 0.00023	597.67989 ± 0.00022	597.67990 ± 0.00021
r_A	0.1475 ± 0.0032	0.1477 ± 0.0032	0.1478 ± 0.0033	0.1493 ± 0.0032	0.1507 ± 0.0029
r_B	0.01594 ± 0.00044	0.01576 ± 0.00045	0.01580 ± 0.00047	0.01590 ± 0.00043	0.01601 ± 0.00038
σ (mmag)	0.6833	0.6836	0.6835	0.6829	0.6822
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.1692 ± 0.0063	0.1704 ± 0.0061	0.1703 ± 0.0061	0.1703 ± 0.0060	0.1701 ± 0.0065
k	0.1054 ± 0.0038	0.1039 ± 0.0035	0.1041 ± 0.0035	0.1040 ± 0.0037	0.1043 ± 0.0039
i (deg.)	82.47 ± 0.48	82.39 ± 0.48	82.40 ± 0.48	82.39 ± 0.48	82.41 ± 0.50
u_A	0.29 ± 0.38	-0.02 ± 0.40	-0.23 ± 0.37	0.35 ± 0.39	0.16 ± 0.41
v_A		0.29 perturbed	0.69 perturbed	0.28 perturbed	0.15 perturbed
T_0	597.67989 ± 0.00022	597.67989 ± 0.00021	597.67989 ± 0.00023	597.67989 ± 0.00022	597.67989 ± 0.00023
r_A	0.1531 ± 0.0062	0.1543 ± 0.0059	0.1542 ± 0.0059	0.1543 ± 0.0059	0.1540 ± 0.0063
r_B	0.01614 ± 0.00041	0.01603 ± 0.00037	0.01606 ± 0.00037	0.01604 ± 0.00038	0.01607 ± 0.00039
σ (mmag)	0.6816	0.6816	0.6817	0.6817	0.6816
Fitting for both LD coefficients					
$r_A + r_B$	0.1692 ± 0.0062	0.1626 ± 0.0086	0.1592 ± 0.0076	0.1595 ± 0.0088	0.1605 ± 0.0085
k	0.105 ± 0.003	0.115 ± 0.012	0.119 ± 0.010	0.119 ± 0.012	0.118 ± 0.012
i (deg.)	82.47 ± 0.48	82.92 ± 0.59	83.11 ± 0.49	83.11 ± 0.58	83.05 ± 0.56
u_A	0.29 ± 0.33	1.56 ± 1.24	3.73 ± 1.94	-0.09 ± 0.32	1.30 ± 0.74
v_A		-1.24 ± 1.26	-4.57 ± 2.67	-1.67 ± 1.14	-1.17 ± 0.94
T_0	597.67989 ± 0.00022	597.67989 ± 0.00022	597.67989 ± 0.00022	597.67989 ± 0.00022	597.67989 ± 0.00022
r_A	0.1531 ± 0.0060	0.1459 ± 0.0091	0.1423 ± 0.0079	0.1425 ± 0.0095	0.1436 ± 0.0089
r_B	0.01614 ± 0.00038	0.01675 ± 0.00088	0.01691 ± 0.00069	0.01695 ± 0.00087	0.01687 ± 0.00081
σ (mmag)	0.6816	0.6814	0.6812	0.6812	0.6813

Table A41. Final parameters of the fit to the light curves of CoRoT-11 from the JKTEBOP analysis, compared to those found by Gandolfi et al. (2010). Quantities without quoted uncertainties were not given by Gandolfi et al. (2010) but have been calculated from other parameters which were.

	This work (32s sampling)	This work (512s sampling)	This work (final)	Gandolfi et al. (2010)
$r_A + r_B$	0.1594 ± 0.0024	0.1703 ± 0.0069	0.1607 ± 0.0024	0.1606
k	0.1061 ± 0.0012	0.1041 ± 0.0041	0.1060 ± 0.0011	0.1070 ± 0.0017
i ($^\circ$)	83.23 ± 0.19	82.40 ± 0.53	83.13 ± 0.19	83.170 ± 0.150
r_A	0.1441 ± 0.0023	0.1542 ± 0.0067	0.1452 ± 0.0022	0.1451 ± 0.0017
r_B	0.01530 ± 0.00024	0.01605 ± 0.00041	0.01549 ± 0.00023	0.01553

Table A42. Derived physical properties of the CoRoT-11 system. The upper part of the table contains the individual results from this work; in each case $g_b = 28.5 \pm 4.2 \text{ m s}^{-2}$, $\rho_A = 0.488 \pm 0.022 \rho_\odot$ and $T'_{\text{eq}} = 1735 \pm 34 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	159.6 ± 4.0	159.0 ± 2.2	158.8 ± 1.1	158.2 ± 2.3	158.5 ± 5.7	157.4 ± 4.8
M_A (M _⊙)	1.293 ± 0.096	1.279 ± 0.053	1.275 ± 0.027	1.259 ± 0.054	1.268 ± 0.140	1.240 ± 0.116
R_A (R _⊙)	1.384 ± 0.042	1.379 ± 0.029	1.378 ± 0.026	1.372 ± 0.030	1.375 ± 0.061	1.365 ± 0.049
log g_A (cgs)	4.268 ± 0.016	4.266 ± 0.014	4.266 ± 0.013	4.264 ± 0.014	4.265 ± 0.015	4.261 ± 0.019
M_b (M _{Jup})	2.38 ± 0.36	2.36 ± 0.34	2.35 ± 0.34	2.33 ± 0.34	2.35 ± 0.39	2.31 ± 0.37
R_b (R _{Jup})	1.436 ± 0.041	1.431 ± 0.029	1.430 ± 0.025	1.424 ± 0.029	1.427 ± 0.057	1.417 ± 0.050
ρ_b (ρ _{Jup})	0.75 ± 0.11	0.75 ± 0.11	0.75 ± 0.11	0.76 ± 0.11	0.75 ± 0.12	0.76 ± 0.12
Θ	0.113 ± 0.017	0.114 ± 0.016	0.114 ± 0.016	0.114 ± 0.017	0.114 ± 0.017	0.115 ± 0.017
a (AU)	0.04431 ± 0.00110	0.04416 ± 0.00061	0.04411 ± 0.00031	0.04393 ± 0.00063	0.04403 ± 0.00158	0.04370 ± 0.00133
Age (Gyr)		2.0 ^{+0.8} _{-0.7}	2.1 ^{+0.6} _{-0.1}	2.0 ^{+0.8} _{-0.6}	1.7 ^{+0.7} _{-2.1}	2.4 ^{+0.4} _{-2.0}
	This work (final)	Gandolfi et al. (2010)				
M_A (M _⊙)	1.26 ± 0.14 ± 0.02	1.27 ± 0.05				
R_A (R _⊙)	1.374 ± 0.061 ± 0.009	1.37 ± 0.03				
log g_A (cgs)	4.264 ± 0.019 ± 0.003	4.26 ± 0.06				
ρ_A (ρ _⊙)	0.488 ± 0.022	0.490 ± 0.014				
M_b (M _{Jup})	2.34 ± 0.39 ± 0.03	2.33 ± 0.34				
R_b (R _{Jup})	1.426 ± 0.057 ± 0.009	1.43 ± 0.03				
g_b (m s ⁻²)	28.5 ± 4.2					
ρ_b (ρ _{Jup})	0.76 ± 0.12 ± 0.00	0.75 ± 0.11				
T'_{eq} (K)	1735 ± 34	1657 ± 55				
Θ	0.114 ± 0.017 ± 0.001					
a (AU)	0.0440 ± 0.0016 ± 0.0003	0.0436 ± 0.0005				
Age (Gyr)	2.0 ^{+0.8 +0.4} _{-2.1 -0.4}	2.0 ± 1.0				

Table A43. Parameters of the JKTEBOP best fits of the CoRoT 32s-sampled light curve of CoRoT-12, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 291 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.1376 ± 0.0032	0.1361 ± 0.0033	0.1404 ± 0.0031	0.1399 ± 0.0030	0.1413 ± 0.0028
k	0.13227 ± 0.00108	0.12900 ± 0.00112	0.13316 ± 0.00085	0.13271 ± 0.00093	0.13328 ± 0.00080
i (deg.)	86.00 ± 0.29	86.31 ± 0.31	85.71 ± 0.24	85.78 ± 0.25	85.63 ± 0.23
u_A	0.63 fixed	0.45 fixed	0.21 fixed	0.70 fixed	0.45 fixed
v_A		0.41 fixed	0.54 fixed	0.23 fixed	0.20 fixed
r_A	0.1215 ± 0.0027	0.1205 ± 0.0028	0.1239 ± 0.0026	0.1235 ± 0.0025	0.1247 ± 0.0024
r_B	0.01608 ± 0.00048	0.01555 ± 0.00048	0.01650 ± 0.00042	0.01639 ± 0.00044	0.01662 ± 0.00040
σ (mmag)	0.7422	0.7431	0.7486	0.7463	0.7514
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.1376 ± 0.0032	0.1374 ± 0.0040	0.1376 ± 0.0037	0.1375 ± 0.0038	0.1375 ± 0.0036
k	0.1322 ± 0.0014	0.1301 ± 0.0018	0.1313 ± 0.0016	0.1311 ± 0.0017	0.1309 ± 0.0017
i (deg.)	86.01 ± 0.31	86.13 ± 0.41	86.07 ± 0.37	86.08 ± 0.38	86.09 ± 0.36
u_A	0.632 ± 0.045	0.405 ± 0.066	0.312 ± 0.062	0.784 ± 0.068	0.579 ± 0.054
v_A		0.41 perturbed	0.54 perturbed	0.23 perturbed	0.20 perturbed
r_A	0.1215 ± 0.0028	0.1216 ± 0.0034	0.1216 ± 0.0031	0.1216 ± 0.0032	0.1216 ± 0.0031
r_B	0.01607 ± 0.00051	0.01582 ± 0.00065	0.01596 ± 0.00059	0.01593 ± 0.00061	0.01592 ± 0.00058
σ (mmag)	0.7422	0.7423	0.7421	0.7421	0.7421
Fitting for both LD coefficients					
$r_A + r_B$	0.1376 ± 0.0033	0.1374 ± 0.0040	0.1376 ± 0.0040	0.1375 ± 0.0038	0.1375 ± 0.0040
k	0.1322 ± 0.0014	0.1312 ± 0.0039	0.1312 ± 0.0044	0.1312 ± 0.0043	0.1314 ± 0.0042
i (deg.)	86.01 ± 0.32	86.07 ± 0.44	86.07 ± 0.39	86.07 ± 0.40	86.06 ± 0.39
u_A	0.63 ± 0.04	0.52 ± 0.28	0.28 ± 1.23	0.77 ± 0.50	0.60 ± 0.12
v_A		0.20 ± 0.52	0.60 ± 2.09	0.20 ± 0.70	0.13 ± 0.52
r_A	0.1215 ± 0.0029	0.1215 ± 0.0034	0.1216 ± 0.0035	0.1216 ± 0.0033	0.1215 ± 0.0035
r_B	0.01607 ± 0.00053	0.01594 ± 0.00073	0.01596 ± 0.00064	0.01595 ± 0.00068	0.01597 ± 0.00065
σ (mmag)	0.7422	0.7420	0.7421	0.7420	0.7421

Table A44. Parameters of the JKTEBOP best fits of the CoRoT 512s-sampled light curve of CoRoT-12, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 413 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.1476 ± 0.0096	0.1423 ± 0.0102	0.1507 ± 0.0081	0.1497 ± 0.0085	0.1512 ± 0.0087
k	0.1356 ± 0.0030	0.1310 ± 0.0031	0.1362 ± 0.0024	0.1356 ± 0.0025	0.1361 ± 0.0022
i (deg.)	85.24 ± 0.76	85.86 ± 0.91	84.95 ± 0.61	85.05 ± 0.66	84.90 ± 0.65
u_A	0.63 fixed	0.45 fixed	0.21 fixed	0.70 fixed	0.45 fixed
v_A		0.41 fixed	0.54 fixed	0.23 fixed	0.20 fixed
T_0	398.62700 ± 0.00074	398.62704 ± 0.00075	398.62702 ± 0.00077	398.62701 ± 0.00076	398.62703 ± 0.00075
r_A	0.1300 ± 0.0081	0.1258 ± 0.0087	0.1327 ± 0.0069	0.1319 ± 0.0073	0.1331 ± 0.0074
r_b	0.0176 ± 0.0014	0.0165 ± 0.0015	0.0181 ± 0.0012	0.0179 ± 0.0013	0.0181 ± 0.0012
σ (mmag)	2.3975	2.3971	2.3944	2.3947	2.3938
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.1553 ± 0.0094	0.1547 ± 0.0099	0.1551 ± 0.0095	0.1550 ± 0.0096	0.1550 ± 0.0100
k	0.1383 ± 0.0022	0.1365 ± 0.0025	0.1375 ± 0.0024	0.1374 ± 0.0022	0.1372 ± 0.0024
i (deg.)	84.48 ± 0.76	84.57 ± 0.82	84.51 ± 0.78	84.53 ± 0.78	84.53 ± 0.81
u_A	0.42 ± 0.22	0.13 ± 0.26	0.08 ± 0.23	0.55 ± 0.21	0.33 ± 0.21
v_A		0.41 perturbed	0.54 perturbed	0.23 perturbed	0.20 perturbed
T_0	398.62704 ± 0.00074	398.62705 ± 0.00074	398.62705 ± 0.00073	398.62705 ± 0.00073	398.62706 ± 0.00077
r_A	0.1364 ± 0.0080	0.1361 ± 0.0085	0.1364 ± 0.0081	0.1362 ± 0.0082	0.1363 ± 0.0085
r_b	0.0189 ± 0.0013	0.0186 ± 0.0014	0.0188 ± 0.0013	0.0187 ± 0.0013	0.0187 ± 0.0014
σ (mmag)	2.3936	2.3924	2.3931	2.3930	2.3929
Fitting for both LD coefficients					
$r_A + r_b$	0.155 ± 0.009	0.161 ± 0.014	0.163 ± 0.014	0.162 ± 0.012	0.164 ± 0.015
k	0.1383 ± 0.0023	0.1243 ± 0.0092	0.1288 ± 0.0077	0.1270 ± 0.0080	0.1272 ± 0.0090
i (deg.)	84.48 ± 0.72	84.75 ± 1.04	84.42 ± 0.89	84.56 ± 0.79	84.39 ± 0.90
u_A	0.4 ± 0.2	-1.6 ± 2.8	-4.4 ± 4.9	2.4 ± 1.4	-0.4 ± 1.3
v_A		3.6 ± 3.9	7.9 ± 7.9	3.2 ± 2.5	2.5 ± 2.6
T_0	398.62704 ± 0.00075	398.62709 ± 0.00072	398.62707 ± 0.00078	398.62703 ± 0.00075	398.62708 ± 0.00076
r_A	0.136 ± 0.008	0.143 ± 0.014	0.144 ± 0.014	0.144 ± 0.012	0.146 ± 0.014
r_b	0.0189 ± 0.0013	0.0178 ± 0.0014	0.0185 ± 0.0013	0.0182 ± 0.0013	0.0185 ± 0.0012
σ (mmag)	2.3936	2.3888	2.3903	2.3899	2.3900

Table A45. Final parameters of the fit to the light curves of CoRoT-12 from the JKTEBOP analysis, compared to those found by Gillon et al. (2010b). Quantities without quoted uncertainties were not given by Gillon et al. (2010b) but have been calculated from other parameters which were.

	This work (32s sampling)	This work (512s sampling)	This work (final)	Gillon et al. (2010b)
$r_A + r_b$	0.1375 ± 0.0043	0.1550 ± 0.0112	0.1398 ± 0.0042	0.1464
k	0.1309 ± 0.0020	0.1371 ± 0.0028	0.1330 ± 0.0021	0.1321 ± 0.0015
i (°)	86.08 ± 0.45	84.53 ± 0.91	85.79 ± 0.43	$85.48^{+0.72}_{-0.77}$
r_A	0.1216 ± 0.0037	0.1363 ± 0.0096	0.1235 ± 0.0035	0.1293
r_b	0.01591 ± 0.00070	0.01869 ± 0.00156	0.01638 ± 0.00074	0.01714

Table A46. Derived physical properties of the CoRoT-12 system. The upper part of the table contains the individual results from this work; in each case $g_b = 12.1 \pm 1.3 \text{ m s}^{-2}$, $\rho_A = 0.889 \pm 0.076 \rho_\odot$ and $T'_{\text{eq}} = 1410 \pm 28 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	155.7 ± 4.0	152.4 ± 2.4	152.1 ± 2.2	149.8 ± 4.3	149.8 ± 2.2	150.8 ± 2.3
M_A (M _⊙)	1.116 ± 0.087	1.047 ± 0.049	1.041 ± 0.044	0.996 ± 0.088	0.995 ± 0.044	1.014 ± 0.046
R_A (R _⊙)	1.079 ± 0.044	1.056 ± 0.033	1.054 ± 0.034	1.038 ± 0.042	1.038 ± 0.032	1.045 ± 0.034
log g_A (cgs)	4.420 ± 0.025	4.411 ± 0.026	4.410 ± 0.025	4.404 ± 0.029	4.404 ± 0.026	4.406 ± 0.025
M_b (M _{Jup})	0.943 ± 0.076	0.903 ± 0.063	0.899 ± 0.061	0.873 ± 0.077	0.873 ± 0.060	0.884 ± 0.061
R_b (R _{Jup})	1.392 ± 0.072	1.363 ± 0.065	1.360 ± 0.064	1.340 ± 0.074	1.340 ± 0.064	1.348 ± 0.064
ρ_b (ρ _{Jup})	0.327 ± 0.050	0.334 ± 0.050	0.335 ± 0.050	0.340 ± 0.052	0.340 ± 0.051	0.337 ± 0.051
Θ	0.0492 ± 0.0040	0.0503 ± 0.0040	0.0504 ± 0.0039	0.0511 ± 0.0042	0.0511 ± 0.0040	0.0508 ± 0.0040
a (AU)	0.04061 ± 0.00105	0.03975 ± 0.00063	0.03967 ± 0.00056	0.03909 ± 0.00112	0.03908 ± 0.00057	0.03933 ± 0.00060
Age (Gyr)		4.8 ^{+3.3} _{-1.9}	4.4 ^{+2.1} _{-1.5}	7.6 ^{+1.6} _{-6.7}	6.7 ^{+1.6} _{-2.9}	5.6 ^{+2.0} _{-1.7}
	This work (final)	Gillon et al. (2010b)				
M_A (M _⊙)	1.018 ± 0.088 ± 0.029	1.078 ^{+0.077} _{-0.072}				
R_A (R _⊙)	1.046 ± 0.042 ± 0.010	1.116 ^{+0.096} _{-0.092}				
log g_A (cgs)	4.407 ± 0.029 ± 0.004	4.375 ^{+0.065} _{-0.062}				
ρ_A (ρ _⊙)	0.889 ± 0.076	0.77 ^{+0.20} _{-0.15}				
M_b (M _{Jup})	0.887 ± 0.077 ± 0.017	0.917 ^{+0.070} _{-0.065}				
R_b (R _{Jup})	1.350 ± 0.074 ± 0.013	1.44 ± 0.13				
g_b (m s ⁻¹)	12.1 ± 1.3	11.0 ^{+2.3} _{-1.9}				
ρ_b (ρ _{Jup})	0.337 ± 0.052 ± 0.003	0.309 ^{+0.097} _{-0.071}				
T'_{eq} (K)	1410 ± 28	1442 ± 58				
Θ	0.0508 ± 0.0042 ± 0.0005					
a (AU)	0.0394 ± 0.0011 ± 0.0004	0.04016 ^{+0.00093} _{-0.00092}				
Age (Gyr)	5.8 ^{+3.3} _{-6.7} ^{+1.8} _{-1.5}	6.3 ± 3.1				

Table A47. Parameters of the JKTEBOP best fits of the 32s-sampled CoRoT light curve of CoRoT-13, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 441 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.1207 ± 0.0057	0.1158 ± 0.0060	0.1234 ± 0.0048	0.1230 ± 0.0048	0.1251 ± 0.0046
k	0.1001 ± 0.0015	0.0975 ± 0.0015	0.1004 ± 0.0011	0.1001 ± 0.0012	0.1007 ± 0.0011
i (deg.)	85.93 ± 0.46	86.42 ± 0.52	85.68 ± 0.37	85.71 ± 0.37	85.52 ± 0.36
u_A	0.61 fixed	0.41 fixed	0.16 fixed	0.67 fixed	0.40 fixed
v_A		0.36 fixed	0.57 fixed	0.27 fixed	0.18 fixed
r_A	0.1097 ± 0.0050	0.1055 ± 0.0054	0.1121 ± 0.0043	0.1118 ± 0.0042	0.1137 ± 0.0041
r_b	0.01099 ± 0.00065	0.01029 ± 0.00066	0.01126 ± 0.00051	0.01120 ± 0.00054	0.01145 ± 0.00051
σ (mmag)	0.8144	0.8142	0.8104	0.8102	0.8094
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.1281 ± 0.0048	0.1276 ± 0.0056	0.1281 ± 0.0049	0.1279 ± 0.0050	0.1278 ± 0.0053
k	0.1019 ± 0.0010	0.1006 ± 0.0011	0.1013 ± 0.0011	0.1010 ± 0.0010	0.1011 ± 0.0010
i (deg.)	85.23 ± 0.37	85.30 ± 0.45	85.25 ± 0.38	85.27 ± 0.39	85.28 ± 0.42
u_A	0.417 ± 0.089	0.145 ± 0.121	0.046 ± 0.101	0.550 ± 0.103	0.329 ± 0.099
v_A		0.36 perturbed	0.57 perturbed	0.27 perturbed	0.18 perturbed
r_A	0.1163 ± 0.0043	0.1159 ± 0.0051	0.1163 ± 0.0043	0.1162 ± 0.0044	0.1161 ± 0.0047
r_b	0.01185 ± 0.00051	0.01166 ± 0.00059	0.01178 ± 0.00052	0.01174 ± 0.00052	0.01174 ± 0.00057
σ (mmag)	0.8090	0.8086	0.8088	0.8087	0.8087
Fitting for both LD coefficients					
$r_A + r_b$	0.1281 ± 0.0049	0.1234 ± 0.0085	0.1278 ± 0.0075	0.1630 ± 0.0178	0.1294 ± 0.0084
k	0.1019 ± 0.0010	0.0936 ± 0.0046	0.0956 ± 0.0037	0.1403 ± 0.0261	0.0941 ± 0.0034
i (deg.)	85.23 ± 0.38	85.99 ± 0.71	85.60 ± 0.52	82.29 ± 1.26	85.59 ± 0.60
u_A	0.42 ± 0.09	-1.06 ± 1.27	-3.18 ± 2.52	-1.90 ± 0.41	-0.19 ± 0.51
v_A		2.52 ± 2.02	5.95 ± 4.12	-5.58 ± 0.69	2.02 ± 1.17
r_A	0.1163 ± 0.0044	0.1129 ± 0.0077	0.1167 ± 0.0069	0.1429 ± 0.0157	0.1183 ± 0.0078
r_b	0.01185 ± 0.00053	0.01057 ± 0.00084	0.01115 ± 0.00068	0.02005 ± 0.00365	0.01113 ± 0.00070
σ (mmag)	0.8090	0.8072	0.8077	0.8064	0.8074

Table A48. Parameters of the JKTEBOP best fits of the 512s-sampled CoRoT light curve of CoRoT-13, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 196 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	$0.093^{+0.020}_{-0.005}$	$0.094^{+0.019}_{-0.005}$	$0.093^{+0.021}_{-0.005}$	$0.093^{+0.019}_{-0.005}$	$0.092^{+0.019}_{-0.005}$
k	$0.0930^{+0.0046}_{-0.0027}$	$0.0927^{+0.0039}_{-0.0025}$	$0.0942^{+0.0038}_{-0.0028}$	$0.0942^{+0.0037}_{-0.0026}$	$0.0947^{+0.0032}_{-0.0025}$
i (deg.)	$89.9^{+1.1}_{-2.4}$	$90.0^{+1.1}_{-2.4}$	$90.0^{+1.1}_{-2.6}$	$90.0^{+1.0}_{-2.5}$	$89.9^{+1.2}_{-2.3}$
u_A	0.61 fixed	0.41 fixed	0.16 fixed	0.67 fixed	0.40 fixed
v_A		0.36 fixed	0.57 fixed	0.27 fixed	0.18 fixed
T_0	$790.8085^{+0.0021}_{-0.0021}$	$790.8085^{+0.0022}_{-0.0022}$	$790.8085^{+0.0021}_{-0.0020}$	$790.8086^{+0.0021}_{-0.0021}$	$790.8086^{+0.0021}_{-0.0019}$
r_A	$0.085^{+0.017}_{-0.005}$	$0.086^{+0.017}_{-0.004}$	$0.085^{+0.019}_{-0.004}$	$0.085^{+0.018}_{-0.004}$	$0.084^{+0.017}_{-0.004}$
r_B	$0.0079^{+0.0021}_{-0.0005}$	$0.0080^{+0.0021}_{-0.0005}$	$0.0080^{+0.0023}_{-0.0004}$	$0.0080^{+0.0021}_{-0.0005}$	$0.0080^{+0.0020}_{-0.0005}$
σ (mmag)	2.2190	2.2155	2.2160	2.2155	2.2163
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	$0.092^{+0.021}_{-0.006}$	$0.173^{+0.010}_{-0.011}$	$0.092^{+0.024}_{-0.006}$	$0.093^{+0.023}_{-0.006}$	$0.093^{+0.021}_{-0.006}$
k	$0.0947^{+0.0038}_{-0.0056}$	$0.0776^{+0.0028}_{-0.0027}$	$0.0943^{+0.0041}_{-0.0052}$	$0.0942^{+0.0038}_{-0.0044}$	$0.0943^{+0.0037}_{-0.0050}$
i (deg.)	$89.99^{+2.37}_{-2.37}$	$81.76^{+0.61}_{-0.66}$	$89.99^{+2.59}_{-2.59}$	$89.95^{+1.10}_{-2.53}$	$89.98^{+1.13}_{-2.38}$
u_A	$0.48^{+0.28}_{-0.30}$	$-60.37^{+479.78}_{-496.31}$	$0.15^{+0.31}_{-0.29}$	$0.67^{+0.28}_{-0.30}$	$0.44^{+0.29}_{-0.29}$
v_A		0.36 perturbed	0.57 perturbed	0.27 perturbed	0.18 perturbed
T_0	$790.8085^{+0.0021}_{-0.0019}$	$790.8087^{+0.0021}_{-0.0020}$	$790.8085^{+0.0022}_{-0.0020}$	$790.8085^{+0.0022}_{-0.0021}$	$790.8085^{+0.0022}_{-0.0018}$
r_A	$0.0841^{+0.0195}_{-0.0059}$	$0.1607^{+0.0097}_{-0.0104}$	$0.0845^{+0.0222}_{-0.0054}$	$0.0846^{+0.0212}_{-0.0056}$	$0.0846^{+0.0190}_{-0.0057}$
r_B	$0.00796^{+0.00204}_{-0.00046}$	$0.01247^{+0.00068}_{-0.00073}$	$0.00797^{+0.00227}_{-0.00049}$	$0.00798^{+0.00220}_{-0.00048}$	$0.00797^{+0.00208}_{-0.00048}$
σ (mmag)	2.2165	2.2136	2.2160	2.2155	2.2161
Fitting for both LD coefficients					
$r_A + r_B$	$0.092^{+0.021}_{-0.005}$	$0.100^{+0.020}_{-0.009}$	$0.165^{+0.015}_{-0.021}$	$0.099^{+0.016}_{-0.008}$	$0.103^{+0.023}_{-0.010}$
k	$0.095^{+0.004}_{-0.004}$	$0.087^{+0.012}_{-0.007}$	$0.086^{+0.017}_{-0.008}$	$0.088^{+0.011}_{-0.007}$	$0.089^{+0.013}_{-0.007}$
i (deg.)	$90.0^{+1.0}_{-2.5}$	$89.9^{+1.3}_{-2.9}$	$82.4^{+1.6}_{-1.0}$	$89.9^{+1.1}_{-1.0}$	$88.5^{+1.9}_{-2.6}$
u_A	$0.48^{+0.24}_{-0.27}$	$-0.19^{+1.14}_{-1.45}$	$-3.03^{+12.22}_{-55.68}$	$2.24^{+1.05}_{-2.88}$	$0.24^{+0.59}_{-0.88}$
v_A		$2.0^{+2.1}_{-3.0}$	$-2.4^{+55.9}_{-23.7}$	$2.2^{+1.8}_{-3.7}$	$1.7^{+1.9}_{-3.2}$
T_0	$790.8085^{+0.0022}_{-0.0021}$	$790.8086^{+0.0023}_{-0.0022}$	$790.8087^{+0.0022}_{-0.0021}$	$790.8087^{+0.0022}_{-0.0020}$	$790.8086^{+0.0022}_{-0.0020}$
r_A	$0.084^{+0.019}_{-0.005}$	$0.092^{+0.017}_{-0.009}$	$0.152^{+0.014}_{-0.021}$	$0.091^{+0.014}_{-0.008}$	$0.095^{+0.019}_{-0.010}$
r_B	$0.0080^{+0.0020}_{-0.0004}$	$0.0080^{+0.0024}_{-0.0005}$	$0.0130^{+0.0015}_{-0.0013}$	$0.0080^{+0.0022}_{-0.0005}$	$0.0084^{+0.0029}_{-0.0008}$
σ (mmag)	2.2165	2.2110	2.2134	2.2124	2.2145

Table A49. Final parameters of the fit to the 32s-sampled light curves of CoRoT-13 from the JKTEBOP analysis, compared to those found by Cabrera et al. (2010). The 512s-sampled solutions are not included because they are unreliable and should be ignored. Quantities without quoted uncertainties were not given by Cabrera et al. (2010) but have been calculated from other parameters which were.

	This work (32s sampling)	Cabrera et al. (2010)
$r_A + r_B$	0.1279 ± 0.0060	0.1009
k	0.1010 ± 0.0012	0.0909 ± 0.0014
i (°)	85.27 ± 0.47	$88.02^{+0.34}_{-0.36}$
r_A	0.1161 ± 0.0053	0.0925 ± 0.0027
r_B	0.01173 ± 0.00063	0.00841

Table A50. Derived physical properties of the CoRoT-13 system. The upper part of the table contains the individual results from this work; in each case $g_b = 20.7 \pm 2.5 \text{ m s}^{-2}$, $\rho_A = 0.526 \pm 0.072 \rho_\odot$ and $T'_{\text{eq}} = 1432 \pm 39 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	141.1 ± 3.5	137.1 ± 1.7	138.4 ± 3.1	136.2 ± 3.1	136.6 ± 2.5	136.3 ± 3.2
M_A (M _⊙)	1.188 ± 0.087	1.092 ± 0.040	1.122 ± 0.075	1.069 ± 0.073	1.078 ± 0.061	1.072 ± 0.077
R_A (R _⊙)	1.312 ± 0.075	1.276 ± 0.065	1.287 ± 0.074	1.267 ± 0.074	1.271 ± 0.077	1.268 ± 0.070
log g_A (cgs)	4.277 ± 0.038	4.265 ± 0.038	4.269 ± 0.037	4.262 ± 0.038	4.263 ± 0.034	4.262 ± 0.040
M_b (M _{Jup})	1.392 ± 0.096	1.316 ± 0.073	1.340 ± 0.089	1.298 ± 0.079	1.305 ± 0.084	1.300 ± 0.092
R_b (R _{Jup})	1.290 ± 0.076	1.254 ± 0.069	1.265 ± 0.074	1.245 ± 0.075	1.249 ± 0.072	1.246 ± 0.075
ρ_b (ρ _{Jup})	0.61 ± 0.10	0.62 ± 0.11	0.62 ± 0.11	0.63 ± 0.11	0.63 ± 0.11	0.63 ± 0.11
Θ	0.0954 ± 0.0073	0.0981 ± 0.0073	0.0972 ± 0.0074	0.0988 ± 0.0080	0.0985 ± 0.0075	0.0987 ± 0.0076
a (AU)	0.05256 ± 0.00129	0.05110 ± 0.00062	0.05156 ± 0.00114	0.05074 ± 0.00114	0.05088 ± 0.00094	0.05078 ± 0.00119
Age (Gyr)		6.3 ^{+0.3} _{-1.9}	4.8 ^{+1.4} _{-1.6}	6.3 ^{+0.0} _{-3.0}	5.7 ^{+0.3} _{-2.2}	6.0 ^{+0.8} _{-6.2}
	This work (final)	Cabrera et al. (2010)				
M_A (M _⊙)	1.086 ± 0.077 ± 0.035	1.09 ± 0.02				
R_A (R _⊙)	1.274 ± 0.077 ± 0.014	1.01 ± 0.03				
log g_A (cgs)	4.264 ± 0.040 ± 0.005	4.46 ± 0.05				
ρ_A (ρ _⊙)	0.526 ± 0.072	1.043 ± 0.093				
M_b (M _{Jup})	1.312 ± 0.092 ± 0.028	1.308 ± 0.066				
R_b (R _{Jup})	1.252 ± 0.075 ± 0.013	0.885 ± 0.014				
g_b (m s ⁻²)	20.7 ± 2.5	41.7 ± 2.9				
ρ_b (ρ _{Jup})	0.62 ± 0.11 ± 0.01	1.76 ± 0.17				
T'_{eq} (K)	1432 ± 39	1700				
Θ	0.0983 ± 0.0080 ± 0.0010					
a (AU)	0.0510 ± 0.0012 ± 0.0005	0.0510 ± 0.0031				
Age (Gyr)	5.8 ^{+1.4} _{-6.2} ^{+0.5} _{-1.0}	0.12 to 3.15				

Table A51. Parameters of the JKTEBOP best fits of the CoRoT 32s-sampled light curve of CoRoT-14, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 263 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.220 ± 0.011	0.222 ± 0.012	0.221 ± 0.012	0.222 ± 0.012	0.222 ± 0.011
k	0.0923 ± 0.0020	0.0914 ± 0.0020	0.0912 ± 0.0019	0.0911 ± 0.0019	0.0901 ± 0.0017
i (deg.)	80.11 ± 0.71	80.02 ± 0.76	80.01 ± 0.73	80.00 ± 0.74	79.93 ± 0.68
u_A	0.61 fixed	0.40 fixed	0.23 fixed	0.69 fixed	0.40 fixed
v_A		0.26 fixed	0.51 fixed	0.25 fixed	0.13 fixed
r_A	0.2013 ± 0.0101	0.2030 ± 0.0107	0.2029 ± 0.0106	0.2032 ± 0.0107	0.2034 ± 0.0099
r_B	0.0186 ± 0.0013	0.0186 ± 0.0014	0.0185 ± 0.0013	0.0185 ± 0.0013	0.0183 ± 0.0012
σ (mmag)	1.0151	1.0160	1.0151	1.0154	1.0138
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.224 ± 0.017	0.224 ± 0.017	0.226 ± 0.018	0.226 ± 0.017	0.223 ± 0.017
k	0.0889 ± 0.0058	0.0878 ± 0.0055	0.0878 ± 0.0063	0.0875 ± 0.0061	0.0886 ± 0.0054
i (deg.)	79.7 ± 1.2	79.7 ± 1.2	79.6 ± 1.3	79.6 ± 1.3	79.8 ± 1.2
u_A	0.34 ± 0.62	0.08 ± 0.70	-0.07 ± 0.75	0.37 ± 0.74	0.28 ± 0.63
v_A		0.26 perturbed	0.51 perturbed	0.25 perturbed	0.13 perturbed
r_A	0.206 ± 0.016	0.206 ± 0.016	0.208 ± 0.017	0.208 ± 0.017	0.205 ± 0.016
r_B	0.0183 ± 0.0011	0.0181 ± 0.0012	0.0182 ± 0.0011	0.0182 ± 0.0011	0.0181 ± 0.0011
σ (mmag)	1.0131	1.0133	1.0132	1.0132	1.0134

Table A52. Parameters of the JKTEBOP best fits of the CoRoT 512s-sampled light curve of CoRoT-14, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 291 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.212 ± 0.057	0.210 ± 0.060	0.215 ± 0.058	0.214 ± 0.061	0.213 ± 0.057
k	0.0893 ± 0.0080	0.0882 ± 0.0083	0.0887 ± 0.0076	0.0884 ± 0.0078	0.0878 ± 0.0064
i (deg.)	81.0 ± 4.3	81.1 ± 5.2	80.8 ± 4.6	80.8 ± 5.0	80.8 ± 4.5
u_A	0.61 fixed	0.40 fixed	0.23 fixed	0.69 fixed	0.40 fixed
v_A		0.26 fixed	0.51 fixed	0.25 fixed	0.13 fixed
P	1.51244 ± 0.00026	1.51244 ± 0.00026	1.51244 ± 0.00027	1.51244 ± 0.00027	1.51244 ± 0.00025
T_0	787.6673 ± 0.0022	787.6672 ± 0.0022	787.6673 ± 0.0022	787.6673 ± 0.0023	787.6673 ± 0.0022
r_A	0.194 ± 0.050	0.193 ± 0.054	0.198 ± 0.052	0.197 ± 0.055	0.196 ± 0.052
r_B	0.0174 ± 0.0059	0.0171 ± 0.0061	0.0175 ± 0.0059	0.0174 ± 0.0061	0.0172 ± 0.0055
σ (mmag)	3.3074	3.3077	3.3082	3.3081	3.3097
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.160 ± 0.019	0.159 ± 0.021	0.159 ± 0.021	0.159 ± 0.019	0.159 ± 0.019
k	0.059 ± 0.012	0.060 ± 0.012	0.060 ± 0.012	0.059 ± 0.012	0.059 ± 0.012
i (deg.)	89.7 ± 2.9	89.4 ± 2.9	89.5 ± 2.9	89.5 ± 2.9	89.6 ± 2.7
u_A	1.65 ± 0.56	1.49 ± 0.60	1.32 ± 0.59	1.80 ± 0.59	1.60 ± 0.57
v_A		0.26 perturbed	0.51 perturbed	0.25 perturbed	0.13 perturbed
P	1.51236 ± 0.00026	1.51236 ± 0.00026	1.51236 ± 0.00026	1.51236 ± 0.00027	1.51236 ± 0.00025
T_0	787.6682 ± 0.0022	787.6682 ± 0.0022	787.6682 ± 0.0023	787.6682 ± 0.0023	787.6682 ± 0.0022
r_A	0.151 ± 0.019	0.150 ± 0.020	0.150 ± 0.019	0.150 ± 0.018	0.150 ± 0.018
r_B	0.0089 ± 0.0020	0.0090 ± 0.0023	0.0090 ± 0.0022	0.0089 ± 0.0020	0.0089 ± 0.0020
σ (mmag)	3.2996	3.3000	3.2996	3.2997	3.2996

Table A53. Final parameters of the fit to the light curves of CoRoT-14 from the JKTEBOP analysis, compared to those found by Tingley et al. (2011). Quantities without quoted uncertainties were not given by Tingley et al. (2011) but have been calculated from other parameters which were.

	This work (32s sampling)	This work (512s sampling)	This work (final)	Tingley et al. (2011)
$r_A + r_B$	0.225 ± 0.020	0.213 ± 0.069	0.223 ± 0.019	0.228
k	0.0880 ± 0.0020	0.0882 ± 0.0092	0.0881 ± 0.0056	0.0925 ± 0.0019
i ($^\circ$)	79.7 ± 1.5	80.9 ± 5.8	79.7 ± 1.4	79.6 ± 0.8
r_A	0.206 ± 0.019	0.196 ± 0.062	0.206 ± 0.019	0.209 ± 0.012
r_B	0.0182 ± 0.0013	0.0173 ± 0.0069	0.0181 ± 0.0013	0.0193

Table A54. Derived physical properties of the CoRoT-14 system. The upper part of the table contains the individual results from this work; in each case $g_b = 183 \pm 27 \text{ m s}^{-2}$, $\rho_A = 0.67 \pm 0.19 \rho_\odot$ and $T'_{\text{eq}} = 1936 \pm 95 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	192.6 ± 6.4	189.2 ± 5.0	190.0 ± 5.5	188.5 ± 4.4	189.0 ± 4.0	188.1 ± 4.2
M_A (M _⊙)	1.190 ± 0.116	1.129 ± 0.088	1.143 ± 0.098	1.117 ± 0.076	1.126 ± 0.069	1.110 ± 0.072
R_A (R _⊙)	1.21 ± 0.13	1.19 ± 0.11	1.20 ± 0.14	1.19 ± 0.11	1.19 ± 0.11	1.19 ± 0.11
log g_A (cgs)	4.346 ± 0.076	4.338 ± 0.082	4.340 ± 0.073	4.337 ± 0.081	4.338 ± 0.081	4.336 ± 0.080
M_b (M _{Jup})	7.96 ± 0.56	7.69 ± 0.46	7.75 ± 0.49	7.63 ± 0.41	7.67 ± 0.38	7.60 ± 0.39
R_b (R _{Jup})	1.037 ± 0.082	1.019 ± 0.078	1.023 ± 0.079	1.015 ± 0.077	1.018 ± 0.076	1.013 ± 0.076
ρ_b (ρ _{Jup})	6.7 ± 1.5	6.8 ± 1.5	6.8 ± 1.5	6.8 ± 1.5	6.8 ± 1.5	6.8 ± 1.5
Θ	0.353 ± 0.030	0.359 ± 0.029	0.358 ± 0.030	0.360 ± 0.029	0.359 ± 0.029	0.361 ± 0.029
a (AU)	0.02738 ± 0.00089	0.02690 ± 0.00070	0.02702 ± 0.00077	0.02681 ± 0.00061	0.02688 ± 0.00055	0.02675 ± 0.00058
Age (Gyr)		4.3 ^{+1.9} _{-5.0}	3.1 ^{+2.1} _{-3.2}	3.9 ^{+2.5} _{-2.8}	3.2 ^{+2.4} _{-2.7}	3.9 ^{+2.0} _{-2.2}
	This work (final)	Tingley et al. (2011)				
M_A (M _⊙)	1.125 ± 0.098 ± 0.018	1.13 ± 0.09				
R_A (R _⊙)	1.19 ± 0.14 ± 0.01	1.21 ± 0.08				
log g_A (cgs)	4.338 ± 0.082 ± 0.002	4.33 ± 0.14				
ρ_A (ρ _⊙)	0.67 ± 0.19	0.65 ± 0.12				
M_b (M _{Jup})	7.67 ± 0.49 ± 0.08	7.6 ± 0.6				
R_b (R _{Jup})	1.018 ± 0.079 ± 0.005	1.09 ± 0.07				
g_b (m s ⁻¹)	183 ± 27					
ρ_b (ρ _{Jup})	6.8 ± 1.5 ± 0.0	5.5 ± 1.1				
T'_{eq} (K)	1936 ± 95	1952 ± 66				
Θ	0.360 ± 0.030 ± 0.002					
a (AU)	0.02687 ± 0.00077 ± 0.00015	0.0270 ± 0.0002				
Age (Gyr)	3.7 ^{+2.5+0.7} _{-5.0-0.6}	0.4 to 8.0				

Table A55. Parameters of the JKTEBOP best fits of the CoRoT 512s light curve of CoRoT-15, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 391 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	$0.149^{+0.028}_{-0.005}$	$0.149^{+0.029}_{-0.005}$	$0.148^{+0.032}_{-0.006}$	$0.149^{+0.029}_{-0.005}$	$0.147^{+0.027}_{-0.005}$
k	$0.0790^{+0.0040}_{-0.0022}$	$0.0795^{+0.0029}_{-0.0022}$	$0.0796^{+0.0034}_{-0.0024}$	$0.0795^{+0.0033}_{-0.0021}$	$0.0807^{+0.0026}_{-0.0021}$
i (deg.)	$90.0^{+1.4}_{-4.4}$	$90.0^{+1.4}_{-4.2}$	$90.0^{+1.3}_{-4.5}$	$89.9^{+1.5}_{-4.2}$	$89.9^{+1.5}_{-3.9}$
u_A	0.59 fixed	0.36 fixed	0.20 fixed	0.68 fixed	0.35 fixed
v_A		0.28 fixed	0.52 fixed	0.25 fixed	0.14 fixed
P	$3.06004^{+0.00048}_{-0.00050}$	$3.06005^{+0.00045}_{-0.00048}$	$3.06005^{+0.00049}_{-0.00046}$	$3.06005^{+0.00045}_{-0.00047}$	$3.06008^{+0.00039}_{-0.00048}$
T_0	$753.5601^{+0.0027}_{-0.0026}$	$753.5601^{+0.0026}_{-0.0022}$	$753.5601^{+0.0025}_{-0.0024}$	$753.5601^{+0.0023}_{-0.0025}$	$753.5600^{+0.0024}_{-0.0021}$
r_A	$0.138^{+0.025}_{-0.005}$	$0.138^{+0.027}_{-0.005}$	$0.137^{+0.029}_{-0.005}$	$0.138^{+0.026}_{-0.005}$	$0.136^{+0.025}_{-0.005}$
r_B	$0.0109^{+0.0027}_{-0.0005}$	$0.0109^{+0.0027}_{-0.0005}$	$0.0109^{+0.0029}_{-0.0006}$	$0.0109^{+0.0027}_{-0.0005}$	$0.0110^{+0.0024}_{-0.0005}$
σ (mmag)	2.8702	2.8724	2.8713	2.8717	2.8747
χ^2_{red}	0.9974	0.9989	0.9981	0.9984	1.0005
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	$0.148^{+0.033}_{-0.008}$	$0.149^{+0.037}_{-0.008}$	$0.149^{+0.036}_{-0.007}$	$0.149^{+0.037}_{-0.008}$	$0.149^{+0.034}_{-0.008}$
k	$0.0793^{+0.0037}_{-0.0034}$	$0.0788^{+0.0035}_{-0.0039}$	$0.0789^{+0.0035}_{-0.0040}$	$0.0788^{+0.0033}_{-0.0039}$	$0.0790^{+0.0034}_{-0.0040}$
i (deg.)	$90.0^{+1.7}_{-4.5}$	$89.9^{+1.6}_{-5.0}$	$90.0^{+1.4}_{-4.9}$	$89.9^{+1.5}_{-4.9}$	$90.0^{+1.5}_{-4.8}$
u_A	$0.56^{+0.22}_{-0.24}$	$0.43^{+0.26}_{-0.26}$	$0.26^{+0.23}_{-0.26}$	$0.74^{+0.25}_{-0.28}$	$0.53^{+0.24}_{-0.24}$
v_A		0.28 perturbed	0.52 perturbed	0.25 perturbed	0.14 perturbed
P	$3.06004^{+0.00047}_{-0.00056}$	$3.06004^{+0.00047}_{-0.00051}$	$3.06005^{+0.00046}_{-0.00050}$	$3.06005^{+0.00051}_{-0.00052}$	$3.06005^{+0.00048}_{-0.00048}$
T_0	$753.5601^{+0.0026}_{-0.0027}$	$753.5601^{+0.0026}_{-0.0025}$	$753.5601^{+0.0026}_{-0.0026}$	$753.5601^{+0.0029}_{-0.0027}$	$753.5601^{+0.0025}_{-0.0025}$
r_A	$0.137^{+0.030}_{-0.007}$	$0.139^{+0.034}_{-0.008}$	$0.138^{+0.033}_{-0.007}$	$0.138^{+0.034}_{-0.008}$	$0.138^{+0.031}_{-0.007}$
r_B	$0.0109^{+0.0032}_{-0.0006}$	$0.0109^{+0.0034}_{-0.0006}$	$0.0109^{+0.0033}_{-0.0005}$	$0.0109^{+0.0032}_{-0.0006}$	$0.0109^{+0.0030}_{-0.0005}$
σ (mmag)	2.8701	2.8718	2.8709	2.8713	2.8709
χ^2_{red}	0.9999	1.0011	1.0004	1.0007	1.0005

Table A56. Final parameters of the fit to the light curves of CoRoT-15 from the JKTEBOP analysis, compared to those found by Bouchy et al. (2011). Quantities without quoted uncertainties were not given by Bouchy et al. (2011) but have been calculated from other parameters which were.

	This work	Bouchy et al. (2011)
$r_A + r_B$	$0.149^{+0.039}_{-0.009}$	0.162
k	$0.0789^{+0.0036}_{-0.0044}$	$0.0788^{+0.0059}_{-0.0029}$
i (°)	$89.9^{+0.1}_{-5.0}$	$86.7^{+2.3}_{-3.2}$
r_A	$0.138^{+0.034}_{-0.009}$	$0.150^{+0.020}_{-0.012}$
r_B	$0.0109^{+0.0034}_{-0.0008}$	0.0118

Table A57. Derived physical properties of the CoRoT-15 system. The upper part of the table contains the individual results from this work; in each case $g_b = 1470_{-620}^{+240} \text{ m s}^{-2}$, $\rho_A = 0.52_{-0.25}^{+0.12} \rho_\odot$ and $T'_{\text{eq}} = 1668_{-76}^{+201} \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	156.4 ^{+7.7} _{-6.1}	155.2 ^{+5.2} _{-0.7}	156.7 ^{+2.7} _{-7.4}	154.4 ^{+6.5} _{-5.3}	154.3 ^{+5.7} _{-4.6}	157.2 ^{+4.0} _{-7.8}
M_A (M _⊙)	1.331 ^{+0.196} _{-0.146}	1.300 ^{+0.130} _{-0.006}	1.339 ^{+0.068} _{-0.177}	1.281 ^{+0.162} _{-0.123}	1.279 ^{+0.141} _{-0.108}	1.350 ^{+0.101} _{-0.188}
R_A (R _⊙)	1.37 ^{+0.39} _{-0.11}	1.36 ^{+0.37} _{-0.09}	1.37 ^{+0.36} _{-0.12}	1.35 ^{+0.39} _{-0.10}	1.35 ^{+0.38} _{-0.10}	1.37 ^{+0.35} _{-0.11}
log g_A (cgs)	4.290 ^{+0.057} _{-0.179}	4.287 ^{+0.059} _{-0.181}	4.291 ^{+0.055} _{-0.186}	4.285 ^{+0.059} _{-0.178}	4.285 ^{+0.059} _{-0.180}	4.293 ^{+0.059} _{-0.191}
M_b (M _{Jup})	65.6 ^{+6.3} _{-4.9}	64.6 ^{+4.3} _{-1.0}	65.8 ^{+2.4} _{-5.9}	63.9 ^{+5.3} _{-4.2}	63.9 ^{+4.7} _{-3.7}	66.2 ^{+3.9} _{-6.2}
R_b (R _{Jup})	1.051 ^{+0.332} _{-0.086}	1.043 ^{+0.327} _{-0.077}	1.053 ^{+0.329} _{-0.091}	1.038 ^{+0.326} _{-0.083}	1.037 ^{+0.326} _{-0.082}	1.056 ^{+0.347} _{-0.083}
ρ_b (ρ _{Jup})	52 ⁺¹³ ₋₂₉	53 ⁺¹³ ₋₂₉	52 ⁺¹³ ₋₂₉	53 ⁺¹³ ₋₂₉	53 ⁺¹³ ₋₂₉	52 ⁺¹² ₋₂₉
Θ	4.32 ^{+0.39} _{-1.05}	4.35 ^{+0.35} _{-1.05}	4.31 ^{+0.41} _{-1.03}	4.37 ^{+0.38} _{-1.06}	4.38 ^{+0.38} _{-1.05}	4.30 ^{+0.36} _{-1.07}
a (AU)	0.04608 ^{+0.00217} _{-0.00169}	0.04572 ^{+0.00147} _{-0.00007}	0.04616 ^{+0.00076} _{-0.00207}	0.04550 ^{+0.00184} _{-0.00147}	0.04548 ^{+0.00161} _{-0.00128}	0.04629 ^{+0.00113} _{-0.00220}
Age (Gyr)		1.8 ^{+2.1} _{-1.8}	0.0 ^{+4.5} _{-0.0}	2.2 ^{+1.4} _{-2.4}	1.4 ^{+1.8} _{-1.5}	2.5 ^{+1.3} _{-5.9}
	This work (final)	Bouchy et al. (2011)				
M_A (M _⊙)	1.31 ^{+0.16} _{-0.19} ^{+0.04} _{-0.03}	1.32 ± 0.12				
R_A (R _⊙)	1.36 ^{+0.39} _{-0.12} ^{+0.01} _{-0.01}	1.46 ^{+0.31} _{-0.14}				
log g_A (cgs)	4.288 ^{+0.059} _{-0.191} ^{+0.005} _{-0.003}	4.23 ^{+0.12} _{-0.20}				
ρ_A (ρ _⊙)	0.52 ^{+0.12} _{-0.25}	0.43 ^{+0.09} _{-0.20}				
M_b (M _{Jup})	64.9 ^{+5.3} _{-6.2} ^{+1.3} _{-1.0}	63.3 ± 4.1				
R_b (R _{Jup})	1.045 ^{+0.347} _{-0.091} ^{+0.011} _{-0.008}	1.12 ^{+0.30} _{-0.15}				
g_b (m s ⁻¹)	1470 ⁺²⁴⁰ ₋₆₂₀					
ρ_b (ρ _{Jup})	53 ⁺¹³ ₋₂₉ ⁺⁰ ₋₀	44 ⁺²⁸ ₋₂₄				
T'_{eq} (K)	1668 ⁺²⁰¹ ₋₇₆	1740 ⁺¹²⁰ ₋₁₉₀				
Θ	4.34 ^{+0.41} _{-1.07} ^{+0.03} _{-0.05}					
a (AU)	0.0458 ^{+0.0018} _{-0.0022} ^{+0.0005} _{-0.0003}	0.045 ^{+0.014} _{-0.010}				
Age (Gyr)	1.6 ^{+4.5} _{-5.9} ^{+0.9} _{-1.6}	1.14 to 3.35				

Table A58. Parameters of the JKTEBOP best fits of the HAT-P-4 *z*-band light curve from Kovács et al. (2007), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 985 datapoints. The measurement errors on the datapoints have been multiplied by 1.67 to force $\chi^2_{\nu} \approx 1$.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	$0.1874^{+0.0113}_{-0.0078}$	$0.1819^{+0.0102}_{-0.0029}$	$0.1802^{+0.0105}_{-0.0034}$	$0.1790^{+0.0154}_{-0.0043}$	$0.1790^{+0.0098}_{-0.0028}$
k	$0.08190^{+0.00129}_{-0.00103}$	$0.08196^{+0.00081}_{-0.00072}$	$0.08195^{+0.00094}_{-0.00076}$	$0.08187^{+0.00123}_{-0.00077}$	$0.08339^{+0.00070}_{-0.00066}$
i (deg.)	$87.1^{+2.8}_{-1.7}$	$88.3^{+1.7}_{-2.0}$	$88.8^{+1.8}_{-2.0}$	$89.5^{+2.0}_{-2.5}$	$88.6^{+1.6}_{-2.0}$
u_A	0.50 fixed	0.23 fixed	0.07 fixed	0.58 fixed	0.20 fixed
v_A		0.32 fixed	0.56 fixed	0.28 fixed	0.15 fixed
T_0	$245.81398^{+0.00055}_{-0.00050}$	$245.81392^{+0.00054}_{-0.00051}$	$245.81394^{+0.00049}_{-0.00048}$	$245.81393^{+0.00048}_{-0.00049}$	$245.81394^{+0.00042}_{-0.00046}$
r_A	$0.1732^{+0.0104}_{-0.0071}$	$0.1681^{+0.0093}_{-0.0026}$	$0.1665^{+0.0095}_{-0.0031}$	$0.1655^{+0.0140}_{-0.0039}$	$0.1652^{+0.0089}_{-0.0025}$
r_B	$0.01419^{+0.00106}_{-0.00072}$	$0.01378^{+0.00091}_{-0.00028}$	$0.01365^{+0.00095}_{-0.00031}$	$0.01355^{+0.00137}_{-0.00039}$	$0.01378^{+0.00083}_{-0.00028}$
σ (mmag)	1.7621	1.7447	1.7467	1.7448	1.7380
χ^2_{red}	1.0457	1.0244	1.0264	1.0241	1.0150
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	$0.1804^{+0.0093}_{-0.0035}$	$0.1779^{+0.0114}_{-0.0048}$	$0.1791^{+0.0099}_{-0.0030}$	$0.1787^{+0.0097}_{-0.0031}$	$0.1794^{+0.0103}_{-0.0034}$
k	$0.08374^{+0.00093}_{-0.00080}$	$0.08322^{+0.00095}_{-0.00085}$	$0.08344^{+0.00079}_{-0.00085}$	$0.08333^{+0.00085}_{-0.00081}$	$0.08347^{+0.00084}_{-0.00087}$
i (deg.)	$88.0^{+1.8}_{-1.9}$	$89.2^{+2.1}_{-2.0}$	$88.5^{+1.6}_{-2.0}$	$88.7^{+1.7}_{-2.0}$	$88.4^{+1.7}_{-2.0}$
u_A	$0.236^{+0.047}_{-0.052}$	$0.070^{+0.070}_{-0.073}$	$-0.098^{+0.068}_{-0.068}$	$0.423^{+0.068}_{-0.067}$	$0.193^{+0.055}_{-0.056}$
v_A		0.32 perturbed	0.56 perturbed	0.28 perturbed	0.15 perturbed
T_0	$245.81397^{+0.00042}_{-0.00047}$	$245.81391^{+0.00046}_{-0.00046}$	$245.81394^{+0.00042}_{-0.00046}$	$245.81392^{+0.00045}_{-0.00045}$	$245.81394^{+0.00042}_{-0.00046}$
r_A	$0.1664^{+0.0086}_{-0.0032}$	$0.1642^{+0.0104}_{-0.0044}$	$0.1653^{+0.0090}_{-0.0028}$	$0.1649^{+0.0088}_{-0.0028}$	$0.1656^{+0.0084}_{-0.0031}$
r_B	$0.01394^{+0.00079}_{-0.00035}$	$0.01367^{+0.00101}_{-0.00041}$	$0.01379^{+0.00085}_{-0.00031}$	$0.01374^{+0.00086}_{-0.00028}$	$0.01382^{+0.00092}_{-0.00031}$
σ (mmag)	1.7392	1.7366	1.7380	1.7374	1.7380
χ^2_{red}	1.0170	1.0149	1.0160	1.0154	1.0159
Fitting for both LD coefficients					
$r_A + r_B$	$0.180^{+0.010}_{-0.004}$	$0.179^{+0.018}_{-0.005}$	$0.180^{+0.013}_{-0.005}$	$0.178^{+0.030}_{-0.007}$	$0.179^{+0.018}_{-0.007}$
k	$0.0837^{+0.0008}_{-0.0008}$	$0.0830^{+0.0012}_{-0.0019}$	$0.0829^{+0.0013}_{-0.0019}$	$0.0828^{+0.0016}_{-0.0052}$	$0.0829^{+0.0015}_{-0.0051}$
i (deg.)	$88.0^{+2.0}_{-1.7}$	$89.1^{+2.1}_{-2.5}$	$88.5^{+1.8}_{-2.4}$	$89.8^{+2.3}_{-3.5}$	$89.2^{+2.0}_{-2.8}$
u_A	$0.24^{+0.05}_{-0.05}$	$-0.02^{+0.21}_{-0.33}$	$-0.92^{+0.98}_{-1.44}$	$0.68^{+2.03}_{-2.48}$	$0.11^{+0.14}_{-0.26}$
v_A		$0.50^{+0.63}_{-0.44}$	$1.95^{+2.36}_{-1.67}$	$0.65^{+2.79}_{-0.65}$	$0.49^{+1.83}_{-0.48}$
T_0	$245.81397^{+0.00044}_{-0.00046}$	$245.81390^{+0.00046}_{-0.00047}$	$245.81389^{+0.00047}_{-0.00048}$	$245.81388^{+0.00043}_{-0.00049}$	$245.81388^{+0.00046}_{-0.00049}$
r_A	$0.166^{+0.009}_{-0.004}$	$0.165^{+0.017}_{-0.005}$	$0.167^{+0.012}_{-0.005}$	$0.165^{+0.028}_{-0.006}$	$0.165^{+0.017}_{-0.007}$
r_B	$0.0139^{+0.0008}_{-0.0004}$	$0.0137^{+0.0013}_{-0.0004}$	$0.0138^{+0.0012}_{-0.0003}$	$0.0136^{+0.0020}_{-0.0005}$	$0.0137^{+0.0015}_{-0.0004}$
σ (mmag)	1.7392	1.7359	1.7363	1.7362	1.7366
χ^2_{red}	1.0170	1.0155	1.0158	1.0158	1.0161

Table A59. Parameters of the JKTEBOP best fits of the FTN *i*-band light curve of HAT-P-4 from Winn et al. (2011), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD(UTC) – 2455000.0. The light curve contains 133 binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.181 ^{+0.014} _{-0.004}	0.183 ^{+0.013} _{-0.004}	0.179 ^{+0.014} _{-0.005}	0.179 ^{+0.017} _{-0.005}	0.188 ^{+0.010} _{-0.010}
k	0.0837 ^{+0.0016} _{-0.0010}	0.0843 ^{+0.0011} _{-0.0009}	0.0841 ^{+0.0015} _{-0.0010}	0.0841 ^{+0.0017} _{-0.0010}	0.0861 ^{+0.0011} _{-0.0011}
i (deg.)	88.4 ^{+2.0} _{-2.3}	88.0 ^{+1.9} _{-2.3}	89.3 ^{+2.1} _{-2.3}	89.7 ^{+2.2} _{-2.6}	86.6 ^{+2.5} _{-1.4}
u_A	0.56 fixed	0.30 fixed	0.14 fixed	0.64 fixed	0.30 fixed
v_A		0.31 fixed	0.56 fixed	0.27 fixed	0.15 fixed
T_0	285.03007 ^{+0.00041} _{-0.00042}	285.03008 ^{+0.00038} _{-0.00040}	285.03017 ^{+0.00039} _{-0.00041}	285.03016 ^{+0.00039} _{-0.00041}	285.03014 ^{+0.00037} _{-0.00036}
r_A	0.1672 ^{+0.0128} _{-0.0036}	0.1684 ^{+0.0121} _{-0.0035}	0.1650 ^{+0.0125} _{-0.0043}	0.1647 ^{+0.0155} _{-0.0042}	0.1731 ^{+0.0093} _{-0.0091}
r_B	0.01400 ^{+0.00136} _{-0.00042}	0.01421 ^{+0.00122} _{-0.00038}	0.01387 ^{+0.00126} _{-0.00047}	0.01385 ^{+0.00162} _{-0.00045}	0.01490 ^{+0.00098} _{-0.00089}
σ (mmag)	2.1160	2.1471	2.1364	2.1430	2.1675
χ^2_{red}	7.9641	8.2121	8.1264	8.1789	8.3751
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.181 ^{+0.022} _{-0.004}	0.186 ^{+0.018} _{-0.007}	0.185 ^{+0.018} _{-0.005}	0.185 ^{+0.019} _{-0.006}	0.184 ^{+0.020} _{-0.006}
k	0.0811 ^{+0.0032} _{-0.0017}	0.0807 ^{+0.0033} _{-0.0019}	0.0812 ^{+0.0029} _{-0.0016}	0.0809 ^{+0.0031} _{-0.0018}	0.0811 ^{+0.0027} _{-0.0019}
i (deg.)	89.9 ^{+1.7} _{-3.5}	88.3 ^{+2.5} _{-2.8}	88.3 ^{+2.0} _{-3.0}	88.3 ^{+2.3} _{-3.0}	88.5 ^{+2.2} _{-3.0}
u_A	0.741 ^{+0.063} _{-0.063}	0.607 ^{+0.081} _{-0.098}	0.411 ^{+0.074} _{-0.077}	0.942 ^{+0.086} _{-0.098}	0.701 ^{+0.072} _{-0.065}
v_A		0.31 perturbed	0.56 perturbed	0.27 perturbed	0.15 perturbed
T_0	285.02971 ^{+0.00049} _{-0.00046}	285.02963 ^{+0.00050} _{-0.00049}	285.02967 ^{+0.00047} _{-0.00047}	285.02965 ^{+0.00048} _{-0.00044}	285.02967 ^{+0.00046} _{-0.00047}
r_A	0.168 ^{+0.019} _{-0.004}	0.172 ^{+0.016} _{-0.006}	0.171 ^{+0.016} _{-0.004}	0.172 ^{+0.017} _{-0.005}	0.170 ^{+0.018} _{-0.005}
r_B	0.0136 ^{+0.0024} _{-0.0005}	0.0139 ^{+0.0021} _{-0.0007}	0.0139 ^{+0.0019} _{-0.0005}	0.0139 ^{+0.0021} _{-0.0006}	0.0138 ^{+0.0020} _{-0.0006}
σ (mmag)	2.1043	2.1186	2.1102	2.1133	2.1102
χ^2_{red}	7.9348	8.0490	7.9826	8.0069	7.9826

Table A60. Parameters of the JKTEBOP best fits of the FLWO *i*-band light curve of HAT-P-4 from Winn et al. (2011), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD(UTC) – 2455000.0. The light curve contains 241 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.177 ^{+0.025} _{-0.006}	0.184 ^{+0.021} _{-0.007}	0.194 ^{+0.021} _{-0.015}	0.201 ^{+0.021} _{-0.020}	0.211 ^{+0.018} _{-0.019}
k	0.0887 ^{+0.0033} _{-0.0016}	0.0904 ^{+0.0020} _{-0.0016}	0.0915 ^{+0.0025} _{-0.0019}	0.0922 ^{+0.0023} _{-0.0022}	0.0941 ^{+0.0019} _{-0.0018}
i (deg.)	89.9 ^{+2.0} _{-3.6}	87.3 ^{+2.5} _{-2.7}	85.8 ^{+3.9} _{-2.3}	84.9 ^{+3.2} _{-2.1}	83.7 ^{+2.0} _{-1.5}
u_A	0.56 fixed	0.30 fixed	0.14 fixed	0.64 fixed	0.30 fixed
v_A		0.31 fixed	0.56 fixed	0.27 fixed	0.15 fixed
T_0	324.76692 ^{+0.00073} _{-0.00078}	324.76696 ^{+0.00075} _{-0.00071}	324.76693 ^{+0.00077} _{-0.00073}	324.76693 ^{+0.00070} _{-0.00080}	324.76694 ^{+0.00074} _{-0.00068}
r_A	0.163 ^{+0.022} _{-0.005}	0.169 ^{+0.019} _{-0.006}	0.177 ^{+0.019} _{-0.013}	0.184 ^{+0.019} _{-0.018}	0.193 ^{+0.016} _{-0.017}
r_B	0.0145 ^{+0.0027} _{-0.0007}	0.0153 ^{+0.0020} _{-0.0008}	0.0162 ^{+0.0023} _{-0.0014}	0.0169 ^{+0.0021} _{-0.0020}	0.0182 ^{+0.0018} _{-0.0019}
σ (mmag)	1.6027	1.6123	1.6090	1.6109	1.6248
χ^2_{red}	0.7726	0.7819	0.7786	0.7805	0.7939
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.178 ^{+0.025} _{-0.007}	0.180 ^{+0.034} _{-0.010}	0.179 ^{+0.025} _{-0.006}	0.179 ^{+0.031} _{-0.011}	0.179 ^{+0.026} _{-0.006}
k	0.0882 ^{+0.0031} _{-0.0023}	0.0876 ^{+0.0038} _{-0.0030}	0.0878 ^{+0.0029} _{-0.0024}	0.0877 ^{+0.0034} _{-0.0029}	0.0878 ^{+0.0031} _{-0.0024}
i (deg.)	89.9 ^{+2.0} _{-3.6}	89.5 ^{+2.9} _{-3.9}	90.0 ^{+1.8} _{-3.8}	89.6 ^{+2.8} _{-3.7}	90.0 ^{+1.7} _{-4.2}
u_A	0.59 ^{+0.10} _{-0.10}	0.46 ^{+0.13} _{-0.16}	0.27 ^{+0.12} _{-0.12}	0.79 ^{+0.12} _{-0.14}	0.57 ^{+0.12} _{-0.11}
v_A		0.31 perturbed	0.56 perturbed	0.27 perturbed	0.15 perturbed
T_0	324.76690 ^{+0.00081} _{-0.00068}	324.76690 ^{+0.00069} _{-0.00073}	324.76690 ^{+0.00078} _{-0.00079}	324.76689 ^{+0.00078} _{-0.00071}	324.76690 ^{+0.00072} _{-0.00078}
r_A	0.164 ^{+0.023} _{-0.006}	0.165 ^{+0.031} _{-0.009}	0.164 ^{+0.022} _{-0.005}	0.165 ^{+0.028} _{-0.010}	0.164 ^{+0.023} _{-0.006}
r_B	0.0144 ^{+0.0026} _{-0.0007}	0.0145 ^{+0.0035} _{-0.0010}	0.0144 ^{+0.0027} _{-0.0005}	0.0145 ^{+0.0033} _{-0.0011}	0.0144 ^{+0.0028} _{-0.0006}
σ (mmag)	1.6021	1.6035	1.6022	1.6026	1.6022
χ^2_{red}	0.7752	0.7766	0.7753	0.7757	0.7754

Table A61. Parameters of the JKTEBOP best fits of the EPOXI light curve of HAT-P-4, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as BJD(UTC) – 2454000.0. The light curve contains 5248 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.1950 ^{+0.0053} _{-0.0057}	0.1818 ^{+0.0092} _{-0.0015}	0.1818 ^{+0.0106} _{-0.0017}	0.1819 ^{+0.0092} _{-0.0017}	0.1859 ^{+0.0048} _{-0.0043}
k	0.08665 ^{+0.00075} _{-0.00080}	0.08538 ^{+0.00088} _{-0.00031}	0.08520 ^{+0.00119} _{-0.00033}	0.08525 ^{+0.00101} _{-0.00032}	0.08733 ^{+0.00046} _{-0.00043}
i (deg.)	86.3 ^{+1.0} _{-0.7}	90.0 ^{+1.1} _{-2.2}	90.0 ^{+1.3} _{-2.3}	89.9 ^{+1.3} _{-2.1}	87.5 ^{+1.1} _{-0.9}
u_A	0.61 fixed	0.41 fixed	0.26 fixed	0.72 fixed	0.40 fixed
v_A		0.25 fixed	0.51 fixed	0.25 fixed	0.10 fixed
T_0	508.67528 ^{+0.00021} _{-0.00020}	508.67528 ^{+0.00018} _{-0.00020}	508.67527 ^{+0.00018} _{-0.00020}	508.67528 ^{+0.00018} _{-0.00019}	508.67530 ^{+0.00019} _{-0.00018}
r_A	0.1794 ^{+0.0047} _{-0.0051}	0.1675 ^{+0.0068} _{-0.0013}	0.1675 ^{+0.0086} _{-0.0014}	0.1676 ^{+0.0078} _{-0.0015}	0.1709 ^{+0.0043} _{-0.0039}
r_B	0.01555 ^{+0.00052} _{-0.00060}	0.01430 ^{+0.00086} _{-0.00014}	0.01427 ^{+0.00103} _{-0.00016}	0.01429 ^{+0.00091} _{-0.00016}	0.01493 ^{+0.00044} _{-0.00042}
σ (mmag)	1.4835	1.4770	1.4782	1.4775	1.4769
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.1798 ^{+0.0095} _{-0.0015}	0.1810 ^{+0.0064} _{-0.0021}	0.1807 ^{+0.0051} _{-0.0019}	0.1807 ^{+0.0119} _{-0.0020}	0.1802 ^{+0.0099} _{-0.0018}
k	0.08649 ^{+0.00086} _{-0.00042}	0.08611 ^{+0.00065} _{-0.00047}	0.08623 ^{+0.00056} _{-0.00043}	0.08610 ^{+0.00091} _{-0.00048}	0.08629 ^{+0.00096} _{-0.00048}
i (deg.)	90.0 ^{+1.1} _{-2.3}	89.5 ^{+1.5} _{-1.5}	89.5 ^{+1.3} _{-2.3}	90.0 ^{+1.3} _{-2.5}	90.0 ^{+1.2} _{-2.4}
u_A	0.467 ^{+0.023} _{-0.020}	0.345 ^{+0.041} _{-0.039}	0.169 ^{+0.046} _{-0.044}	0.643 ^{+0.056} _{-0.053}	0.443 ^{+0.026} _{-0.030}
v_A		0.25 perturbed	0.51 perturbed	0.25 perturbed	0.10 perturbed
T_0	245.81453 ^{+0.00060} _{-0.00062}	245.81460 ^{+0.00070} _{-0.00064}	285.03124 ^{+0.00014} _{-0.00015}	285.03125 ^{+0.00015} _{-0.00015}	285.03124 ^{+0.00016} _{-0.00015}
r_A	0.1655 ^{+0.0085} _{-0.0014}	0.1666 ^{+0.0058} _{-0.0019}	0.1663 ^{+0.0046} _{-0.0017}	0.1664 ^{+0.0106} _{-0.0018}	0.1659 ^{+0.0089} _{-0.0016}
r_B	0.01431 ^{+0.00092} _{-0.00015}	0.01435 ^{+0.00064} _{-0.00021}	0.01434 ^{+0.00050} _{-0.00020}	0.01432 ^{+0.00116} _{-0.00019}	0.01432 ^{+0.00100} _{-0.00017}
σ (mmag)	1.4761	1.4759	1.4760	1.4760	1.4760
Fitting for both LD coefficients					
$r_A + r_B$	0.1798 ^{+0.0099} _{-0.0017}	0.1812 ^{+0.0052} _{-0.0017}	0.1806 ^{+0.0173} _{-0.0025}	0.1807 ^{+0.0240} _{-0.0028}	0.1804 ^{+0.0203} _{-0.0037}
k	0.08649 ^{+0.00085} _{-0.00041}	0.08631 ^{+0.00074} _{-0.00047}	0.08614 ^{+0.00085} _{-0.00323}	0.08620 ^{+0.00076} _{-0.00432}	0.08621 ^{+0.00091} _{-0.00476}
i (deg.)	89.9 ^{+1.2} _{-2.3}	89.1 ^{+1.1} _{-1.5}	90.0 ^{+1.4} _{-2.3}	89.6 ^{+1.5} _{-2.5}	89.9 ^{+1.3} _{-2.5}
u_A	0.467 ^{+0.021} _{-0.023}	0.382 ^{+0.072} _{-0.076}	0.117 ^{+0.408} _{-2.178}	0.609 ^{+1.430} _{-0.160}	0.434 ^{+0.057} _{-0.121}
v_A		0.17 ^{+0.15} _{-0.14}	0.60 ^{+3.89} _{-0.71}	0.20 ^{+1.83} _{-0.23}	0.14 ^{+1.32} _{-0.19}
T_0	285.03124 ^{+0.00015} _{-0.00015}	285.03125 ^{+0.00016} _{-0.00015}	285.03124 ^{+0.00016} _{-0.00016}	285.03124 ^{+0.00015} _{-0.00016}	285.03124 ^{+0.00015} _{-0.00015}
r_A	0.1655 ^{+0.0090} _{-0.0015}	0.1668 ^{+0.0046} _{-0.0015}	0.1662 ^{+0.0167} _{-0.0023}	0.1663 ^{+0.0225} _{-0.0026}	0.1661 ^{+0.0196} _{-0.0034}
r_B	0.01431 ^{+0.00095} _{-0.00017}	0.01440 ^{+0.00054} _{-0.00013}	0.01432 ^{+0.00101} _{-0.00018}	0.01434 ^{+0.00125} _{-0.00022}	0.01432 ^{+0.00110} _{-0.00018}
σ (mmag)	1.4761	1.4759	1.4760	1.4760	1.4760

Table A62. Final parameters of the JKTEBOP fit to the *Kepler* light curve of HAT-P-4, compared to parameters found in other studies. Quantities without quoted uncertainties were not given in other studies but have been calculated from other parameters which were.

	This work (z -band)	This work (FTN i)	This work (FLWO i)	This work (EPOCH)	This work (final)
$r_A + r_B$	0.1788 ^{+0.0151} _{-0.0049}	0.185 ^{+0.057} _{-0.021}	0.179 ^{+0.039} _{-0.013}	0.1806 ^{+0.0131} _{-0.0029}	0.1807 ^{+0.0089} _{-0.0028}
k	0.0834 ^{+0.0011} _{-0.0010}	0.0810 ^{+0.0093} _{-0.0080}	0.0878 ^{+0.0047} _{-0.0027}	0.0862 ^{+0.0012} _{-0.0009}	0.08520 ^{+0.00076} _{-0.00078}
i (°)	88.7 ^{+1.3} _{-2.4}	88.4 ^{+1.6} _{-8.5}	89.8 ^{+0.2} _{-4.3}	89.7 ^{+0.3} _{-2.5}	89.2 ^{+0.8} _{-1.5}
r_A	0.1650 ^{+0.0136} _{-0.0045}	0.171 ^{+0.050} _{-0.020}	0.165 ^{+0.034} _{-0.012}	0.1663 ^{+0.0117} _{-0.0027}	0.1666 ^{+0.0080} _{-0.0027}
r_B	0.01376 ^{+0.00134} _{-0.00042}	0.0139 ^{+0.0060} _{-0.0019}	0.0145 ^{+0.0041} _{-0.0014}	0.01433 ^{+0.00129} _{-0.00029}	0.01431 ^{+0.00072} _{-0.00028}
	Kovács et al. (2007)	TWH08	Winn et al. (2011)	Christiansen et al. (2011)	
$r_A + r_B$	0.1792	0.1791	0.1837	0.1815	
k	0.08200 ± 0.00044	0.08200 ^{+0.00044} _{-0.00044}	0.08697 ^{+0.00052} _{-0.00045}	0.0855 ± 0.0078	
i (°)	89.9 ^{+0.1} _{-2.2}	89.91 ^{+0.09} _{-2.2}	88.76 ^{+0.89} _{-1.38}	89.67 ± 0.30	
r_A	0.1656 ^{+0.0051} _{-0.0008}	0.16556 ^{+0.00479} _{-0.00083}	0.1690 ^{+0.0064} _{-0.0051}	0.1672 ± 0.078	
r_B	0.01358	0.01358	0.01470	0.01430	

Table A63. Derived physical properties of the HAT-P-4 system. The upper part of the table contains the individual results from this work; in each case $g_b = 9.42^{+0.44}_{-0.91} \text{ m s}^{-2}$, $\rho_A = 0.310^{+0.016}_{-0.041} \rho_\odot$ and $T'_{\text{eq}} = 1691^{+27}_{-26} \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	163.33 ^{+3.70} _{-3.50}	158.57 ^{+2.52} _{-2.02}	159.02 ^{+1.64} _{-2.21}	161.81 ^{+0.65} _{-0.48}	156.92 ^{+4.02} _{-0.52}	157.82 ^{+1.25} _{-0.61}
M_A (M _⊙)	1.382 ^{+0.096} _{-0.087}	1.264 ^{+0.061} _{-0.048}	1.275 ^{+0.040} _{-0.053}	1.343 ^{+0.016} _{-0.012}	1.225 ^{+0.096} _{-0.012}	1.247 ^{+0.030} _{-0.014}
R_A (R _⊙)	1.645 ^{+0.097} _{-0.046}	1.597 ^{+0.097} _{-0.036}	1.602 ^{+0.043} _{-0.037}	1.630 ^{+0.052} _{-0.029}	1.581 ^{+0.113} _{-0.028}	1.590 ^{+0.089} _{-0.030}
log g_A (cgs)	4.146 ^{+0.016} _{-0.039}	4.133 ^{+0.014} _{-0.036}	4.135 ^{+0.013} _{-0.014}	4.142 ^{+0.014} _{-0.025}	4.129 ^{+0.015} _{-0.032}	4.131 ^{+0.013} _{-0.038}
M_b (M _{Jup})	0.719 ^{+0.037} _{-0.035}	0.677 ^{+0.027} _{-0.023}	0.681 ^{+0.021} _{-0.025}	0.705 ^{+0.017} _{-0.017}	0.663 ^{+0.038} _{-0.016}	0.671 ^{+0.019} _{-0.017}
R_b (R _{Jup})	1.375 ^{+0.076} _{-0.040}	1.335 ^{+0.070} _{-0.031}	1.339 ^{+0.069} _{-0.032}	1.362 ^{+0.069} _{-0.027}	1.321 ^{+0.075} _{-0.026}	1.329 ^{+0.068} _{-0.026}
ρ_b (ρ_{Jup})	0.259 ^{+0.018} _{-0.036}	0.266 ^{+0.018} _{-0.037}	0.266 ^{+0.018} _{-0.037}	0.261 ^{+0.017} _{-0.036}	0.269 ^{+0.018} _{-0.038}	0.268 ^{+0.018} _{-0.037}
Θ	0.0347 ^{+0.0013} _{-0.0020}	0.0357 ^{+0.0012} _{-0.0020}	0.0356 ^{+0.0012} _{-0.0019}	0.0350 ^{+0.0011} _{-0.0019}	0.0361 ^{+0.0011} _{-0.0021}	0.0359 ^{+0.0011} _{-0.0019}
a (AU)	0.04592 ^{+0.00104} _{-0.00098}	0.04458 ^{+0.00071} _{-0.00057}	0.04471 ^{+0.00046} _{-0.00062}	0.04549 ^{+0.00018} _{-0.00013}	0.04412 ^{+0.00113} _{-0.00014}	0.04437 ^{+0.00035} _{-0.00017}
Age (Gyr)		4.2 ^{+0.5} _{-0.6}	3.9 ^{+0.6} _{-0.5}	2.8 ^{+0.0} _{-0.0}	4.2 ^{+0.3} _{-0.9}	4.5 ^{+0.2} _{-0.3}
	This work (final)	Kovács et al. (2007)	TWH08	Winn et al. (2011)	Christiansen et al. (2011)	
M_A (M _⊙)	1.271 ^{+0.096} _{-0.053} ^{+0.072} _{-0.046}	1.26 ^{+0.06} _{-0.14}	1.248 ^{+0.070} _{-0.12}	1.26 ± 0.10 adopted	1.26 ± 0.14 adopted	
R_A (R _⊙)	1.600 ^{+0.113} _{-0.037} ^{+0.030} _{-0.019}	1.59 ± 0.07	1.596 ^{+0.060} _{-0.075}	1.617 ^{+0.057} _{-0.050}	1.602 ± 0.061	
log g_A (cgs)	4.134 ^{+0.015} _{-0.038} ^{+0.008} _{-0.005}	4.14 ^{+0.01} _{-0.04}	4.127 ^{+0.019} _{-0.027}			
ρ_A (ρ_\odot)	0.310 ^{+0.016} _{-0.041}		0.317 ^{+0.005} _{-0.028}			
M_b (M _{Jup})	0.680 ^{+0.038} _{-0.025} ^{+0.026} _{-0.016}	0.68 ± 0.04	0.671 ^{+0.033} _{-0.044}	0.556 ± 0.068	0.68 ± 0.04 adopted	
R_b (R _{Jup})	1.337 ^{+0.075} _{-0.032} ^{+0.025} _{-0.016}	1.27 ± 0.05	1.274 ^{+0.049} _{-0.060}	1.367 ^{+0.052} _{-0.044}	1.332 ± 0.052	
g_b (m s ⁻¹)	9.42 ^{+0.44} _{-0.91}	10.47 ± 0.48	10.47 ^{+0.39} _{-0.54}			
ρ_b (ρ_{Jup})	0.266 ^{+0.018} _{-0.038} ^{+0.003} _{-0.005}	0.31 ± 0.05	0.304 ^{+0.049} _{-0.037}			
T'_{eq} (K)	1691 ⁺⁴⁶ ₋₂₆		1686 ⁺³⁰ ₋₂₆			
Θ	0.0357 ^{+0.0012} _{-0.0021} ^{+0.0004} _{-0.0007}		0.0378 ^{+0.0016} _{-0.0014}			
a (AU)	0.04465 ^{+0.00113} _{-0.00062} ^{+0.00084} _{-0.00054}	0.0446 ± 0.0012	0.04438 ^{+0.00081} _{-0.0015}			
Age (Gyr)	3.9 ^{+0.6} _{-0.9} ^{+0.6} _{-1.1}	4.2 ^{+2.6} _{-0.6}	4.6 ^{+2.2} _{-1.0}			

Table A64. Parameters of the JKTEBOP best fits of the *Kepler* light curve of HAT-P-7, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 633 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.25848 ± 0.00048	0.25289 ± 0.00044	0.25756 ± 0.00043	0.25305 ± 0.00050	0.26768 ± 0.00038
k	0.076926 ± 0.000040	0.076478 ± 0.000029	0.077110 ± 0.000028	0.076446 ± 0.000034	0.078211 ± 0.000021
i (deg.)	83.350 ± 0.055	84.017 ± 0.055	83.366 ± 0.050	84.014 ± 0.062	82.083 ± 0.038
u_A	0.56 fixed	0.30 fixed	0.09 fixed	0.67 fixed	0.30 fixed
v_A		0.31 fixed	0.61 fixed	0.27 fixed	0.15 fixed
r_A	0.24001 ± 0.00044	0.23492 ± 0.00041	0.23912 ± 0.00039	0.23508 ± 0.00045	0.24826 ± 0.00034
r_B	0.018463 ± 0.000042	0.017966 ± 0.000037	0.018439 ± 0.000036	0.017971 ± 0.000042	0.019417 ± 0.000031
σ (mmag)	0.0733	0.0355	0.0319	0.0403	0.0688
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.26036 ± 0.00043	0.25599 ± 0.00089	0.25766 ± 0.00052	0.25663 ± 0.00092	0.25761 ± 0.00115
k	0.077701 ± 0.000034	0.076839 ± 0.000180	0.077122 ± 0.000068	0.076959 ± 0.000189	0.077179 ± 0.000234
i (deg.)	82.943 ± 0.047	83.583 ± 0.135	83.353 ± 0.066	83.490 ± 0.143	83.345 ± 0.175
u_A	0.460 ± 0.002	0.273 ± 0.039	0.089 ± 0.041	0.628 ± 0.045	0.410 ± 0.022
v_A		0.31 perturbed	0.61 perturbed	0.27 perturbed	0.15 perturbed
r_A	0.24159 ± 0.00039	0.23772 ± 0.00080	0.23921 ± 0.00047	0.23829 ± 0.00083	0.23915 ± 0.00101
r_B	0.018772 ± 0.000038	0.018266 ± 0.000100	0.018449 ± 0.000049	0.018339 ± 0.000107	0.018457 ± 0.000133
σ (mmag)	0.0345	0.0327	0.0319	0.0324	0.0315
Fitting for both LD coefficients					
$r_A + r_B$	0.26036 ± 0.00041	0.25739 ± 0.00051	0.25716 ± 0.00051	0.25738 ± 0.00051	0.25701 ± 0.00054
k	0.077701 ± 0.000031	0.077146 ± 0.000054	0.077011 ± 0.000063	0.077114 ± 0.000060	0.077056 ± 0.000058
i (deg.)	82.943 ± 0.047	83.363 ± 0.064	83.433 ± 0.067	83.375 ± 0.063	83.439 ± 0.067
u_A	0.4595 ± 0.0016	0.3406 ± 0.0084	0.0191 ± 0.0332	0.5913 ± 0.0117	0.3989 ± 0.0042
v_A		0.194 ± 0.014	0.726 ± 0.056	0.213 ± 0.018	0.186 ± 0.013
r_A	0.24159 ± 0.00038	0.23895 ± 0.00046	0.23877 ± 0.00046	0.23895 ± 0.00047	0.23862 ± 0.00049
r_B	0.018772 ± 0.000036	0.018434 ± 0.000048	0.018388 ± 0.000049	0.018427 ± 0.000048	0.018387 ± 0.000049
σ (mmag)	0.0345	0.0316	0.0318	0.0322	0.0314

Table A65. Parameters of the JKTEBOP best fits of the HAT-P-7 *i*-band light curve from Winn et al. (2009a), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD(UTC) – 2454000.0. The light curve contains 630 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.276 ± 0.016	0.240 ± 0.013	0.274 ± 0.016	0.250 ± 0.017	0.287 ± 0.013
k	0.08228 ± 0.00142	0.07980 ± 0.00096	0.08210 ± 0.00122	0.08042 ± 0.00112	0.08324 ± 0.00088
i (deg.)	81.7 ± 1.7	86.4 ± 3.0	81.9 ± 1.7	84.8 ± 2.6	80.4 ± 1.2
u_A	0.51 fixed	0.23 fixed	0.06 fixed	0.61 fixed	0.20 fixed
v_A		0.34 fixed	0.60 fixed	0.29 fixed	0.15 fixed
T_0	731.67931 ± 0.00043	731.67917 ± 0.00041	731.67927 ± 0.00042	731.67918 ± 0.00042	731.67925 ± 0.00045
r_A	0.255 ± 0.015	0.222 ± 0.012	0.253 ± 0.015	0.231 ± 0.015	0.265 ± 0.012
r_b	0.0210 ± 0.0015	0.0177 ± 0.0011	0.0208 ± 0.0015	0.0186 ± 0.0014	0.0221 ± 0.0011
σ (mmag)	1.4746	1.4629	1.4649	1.4642	1.4563
χ^2_{red}	1.0004	0.9849	0.9874	0.9866	0.9761
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.286 ± 0.013	0.287 ± 0.015	0.287 ± 0.015	0.288 ± 0.015	0.286 ± 0.014
k	0.08352 ± 0.00088	0.08294 ± 0.00079	0.08319 ± 0.00089	0.08309 ± 0.00087	0.08322 ± 0.00084
i (deg.)	80.5 ± 1.2	80.4 ± 1.4	80.4 ± 1.3	80.3 ± 1.4	80.4 ± 1.3
u_A	0.214 ± 0.081	-0.052 ± 0.116	-0.178 ± 0.106	0.350 ± 0.103	0.137 ± 0.099
v_A		0.34 perturbed	0.60 perturbed	0.29 perturbed	0.15 perturbed
T_0	731.67921 ± 0.00042	731.67923 ± 0.00042	731.67921 ± 0.00042	731.67923 ± 0.00043	731.67922 ± 0.00041
r_A	0.264 ± 0.012	0.265 ± 0.014	0.265 ± 0.013	0.266 ± 0.014	0.264 ± 0.013
r_b	0.0220 ± 0.0012	0.0220 ± 0.0012	0.0220 ± 0.0012	0.0221 ± 0.0013	0.0220 ± 0.0012
σ (mmag)	1.4556	1.4554	1.4554	1.4554	1.4554
χ^2_{red}	0.9768	0.9766	0.9766	0.9766	0.9766
Fitting for both LD coefficients					
$r_A + r_b$	0.286 ± 0.014	0.251 ± 0.021	0.286 ± 0.018	0.257 ± 0.023	0.258 ± 0.022
k	0.0835 ± 0.0008	0.0797 ± 0.0024	0.0826 ± 0.0027	0.0785 ± 0.0031	0.0783 ± 0.0032
i (deg.)	80.5 ± 1.3	84.9 ± 4.0	80.5 ± 1.7	84.6 ± 3.2	84.7 ± 2.9
u_A	0.21 ± 0.08	-0.39 ± 0.44	-0.85 ± 2.36	1.64 ± 0.92	-0.08 ± 0.29
v_A		1.25 ± 0.89	1.65 ± 3.84	1.97 ± 1.37	1.55 ± 1.05
T_0	731.67921 ± 0.00041	731.67919 ± 0.00040	731.67923 ± 0.00040	731.67920 ± 0.00039	731.67921 ± 0.00043
r_A	0.264 ± 0.013	0.233 ± 0.019	0.264 ± 0.016	0.238 ± 0.021	0.239 ± 0.021
r_b	0.0220 ± 0.0012	0.0186 ± 0.0018	0.0218 ± 0.0016	0.0187 ± 0.0020	0.0187 ± 0.0019
σ (mmag)	1.4556	1.4557	1.4555	1.4554	1.4552
χ^2_{red}	0.9768	0.9785	0.9783	0.9780	0.9778

Table A66. Parameters of the JKTEBOP best fits of the EPOXI light curve of HAT-P-7, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as BJD(UTC) – 2454000.0. The light curve contains 5248 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.2541 ± 0.0058	0.2595 ± 0.0057	0.2627 ± 0.0057	0.2563 ± 0.0058	0.2861 ± 0.0047
k	0.07713 ± 0.00051	0.07741 ± 0.00038	0.07797 ± 0.00038	0.07720 ± 0.00041	0.07962 ± 0.00028
i (deg.)	83.78 ± 0.72	83.14 ± 0.63	82.70 ± 0.61	83.52 ± 0.68	80.25 ± 0.41
u_A	0.56 fixed	0.30 fixed	0.09 fixed	0.67 fixed	0.30 fixed
v_A		0.31 fixed	0.61 fixed	0.27 fixed	0.15 fixed
T_0	700.81305 ± 0.00013	700.81307 ± 0.00013	700.81307 ± 0.00014	700.81306 ± 0.00014	700.81312 ± 0.00014
r_A	0.2359 ± 0.0053	0.2408 ± 0.0053	0.2437 ± 0.0052	0.2379 ± 0.0053	0.2650 ± 0.0043
r_b	0.01819 ± 0.00053	0.01864 ± 0.00050	0.01900 ± 0.00049	0.01836 ± 0.00050	0.02110 ± 0.00040
σ (mmag)	1.0164	1.0167	1.0176	1.0164	1.0222
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.2550 ± 0.0059	0.2526 ± 0.0079	0.2535 ± 0.0067	0.2530 ± 0.0065	0.2531 ± 0.0065
k	0.07731 ± 0.00052	0.07649 ± 0.00071	0.07674 ± 0.00062	0.07661 ± 0.00063	0.07678 ± 0.00066
i (deg.)	83.63 ± 0.70	84.10 ± 1.05	83.95 ± 0.85	84.02 ± 0.86	83.97 ± 0.86
u_A	0.546 ± 0.020	0.367 ± 0.042	0.179 ± 0.044	0.719 ± 0.051	0.500 ± 0.027
v_A		0.31 perturbed	0.61 perturbed	0.27 perturbed	0.15 perturbed
T_0	700.81305 ± 0.00014	700.81306 ± 0.00014	700.81306 ± 0.00014	700.81306 ± 0.00014	700.81306 ± 0.00013
r_A	0.2367 ± 0.0054	0.2347 ± 0.0072	0.2354 ± 0.0061	0.2350 ± 0.0060	0.2351 ± 0.0059
r_b	0.01830 ± 0.00052	0.01795 ± 0.00069	0.01806 ± 0.00060	0.01800 ± 0.00059	0.01805 ± 0.00060
σ (mmag)	1.0164	1.0159	1.0160	1.0159	1.0160
Fitting for both LD coefficients					
$r_A + r_b$	0.2550 ± 0.0059	0.2527 ± 0.0080	0.2486 ± 0.0083	0.2492 ± 0.0081	0.2489 ± 0.0083
k	0.07731 ± 0.00055	0.07650 ± 0.00091	0.07551 ± 0.00143	0.07579 ± 0.00119	0.07584 ± 0.00127
i (deg.)	83.6 ± 0.7	84.1 ± 1.1	84.9 ± 1.4	84.7 ± 1.3	84.7 ± 1.4
u_A	0.546 ± 0.021	0.367 ± 0.095	-0.393 ± 0.485	0.872 ± 0.182	0.451 ± 0.045
v_A		0.31 ± 0.17	1.60 ± 0.88	0.49 ± 0.24	0.36 ± 0.21
T_0	700.81305 ± 0.00014	700.81306 ± 0.00013	700.81306 ± 0.00014	700.81306 ± 0.00014	700.81306 ± 0.00014
r_A	0.2367 ± 0.0053	0.2348 ± 0.0073	0.2312 ± 0.0076	0.2317 ± 0.0073	0.2314 ± 0.0075
r_b	0.01830 ± 0.00053	0.01796 ± 0.00074	0.01745 ± 0.00081	0.01756 ± 0.00080	0.01755 ± 0.00083
σ (mmag)	1.0164	1.0160	1.0159	1.0158	1.0159

Table A67. Final parameters of the JKTEBOP fit to the *Kepler* light curve of HAT-P-7, compared to parameters found in other studies. Quantities without quoted uncertainties were not given in other studies but have been calculated from other parameters which were.

	This work (<i>Kepler</i>)	This work (<i>i</i> -band)	This work (EPOCH)	This work (final)
$r_A + r_b$	0.2572 ± 0.0011	0.287 ± 0.017	0.253 ± 0.012	0.2572 ± 0.0010
k	0.07709 ± 0.00012	0.0831 ± 0.0010	0.0767 ± 0.0011	0.07708 ± 0.00012
i (°)	83.40 ± 0.12	80.4 ± 1.5	84.0 ± 1.5	83.40 ± 0.12
r_A	0.23883 ± 0.00096	0.265 ± 0.015	0.2351 ± 0.011	0.23880 ± 0.00095
r_b	0.018410 ± 0.000090	0.0220 ± 0.0014	0.0180 ± 0.0010	0.018401 ± 0.000090
	Pál et al. (2008)	Winn et al. (2009a)	Christiansen et al. (2010)	Welsh et al. (2010)
$r_A + r_b$	0.248	0.284		0.2596
k	0.0762 ± 0.0012	$0.0834^{+0.0012}_{-0.0021}$		0.0778 ± 0.0003
i (°)	$85.7^{+3.5}_{-3.1}$	$80.8^{+2.8}_{-1.2}$	$85.7^{+3.5}_{-2.2}$	83.1 ± 0.5
r_A	$0.230^{+0.018}_{-0.016}$	$0.262^{+0.011}_{-0.030}$		0.2409
r_b	0.0175	0.0219		0.01874

Table A68. Derived physical properties of the HAT-P-7 system. The upper part of the table contains the individual results from this work; in each case $g_b = 20.77 \pm 0.33 \text{ m s}^{-2}$, $\rho_A = 0.2023 \pm 0.0024 \rho_\odot$ and $T'_{\text{eq}} = 2194 \pm 27 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	190.6 ± 4.6	186.4 ± 1.3	186.9 ± 1.5	187.0 ± 1.4	185.7 ± 1.3	185.6 ± 1.6
M_A (M _⊙)	1.618 ± 0.117	1.512 ± 0.032	1.524 ± 0.037	1.528 ± 0.034	1.497 ± 0.031	1.493 ± 0.039
R_A (R _⊙)	2.000 ± 0.049	1.955 ± 0.017	1.960 ± 0.018	1.962 ± 0.017	1.948 ± 0.016	1.947 ± 0.019
log g_A (cgs)	4.0453 ± 0.0110	4.0355 ± 0.0043	4.0366 ± 0.0047	4.0370 ± 0.0045	4.0340 ± 0.0044	4.0337 ± 0.0049
M_b (M _{Jup})	1.883 ± 0.094	1.800 ± 0.034	1.809 ± 0.037	1.812 ± 0.035	1.787 ± 0.033	1.785 ± 0.038
R_b (R _{Jup})	1.499 ± 0.037	1.466 ± 0.013	1.469 ± 0.014	1.471 ± 0.013	1.461 ± 0.012	1.460 ± 0.015
ρ_b (ρ _{Jup})	0.523 ± 0.016	0.535 ± 0.011	0.533 ± 0.011	0.533 ± 0.011	0.536 ± 0.011	0.537 ± 0.011
Θ	0.06038 ± 0.00166	0.06176 ± 0.00093	0.06160 ± 0.00096	0.06154 ± 0.00093	0.06197 ± 0.00093	0.06201 ± 0.00098
a (AU)	0.03893 ± 0.00094	0.03806 ± 0.00027	0.03816 ± 0.00031	0.03820 ± 0.00028	0.03793 ± 0.00027	0.03791 ± 0.00033
Age (Gyr)		2.0 ^{+0.3} _{-0.3}	2.0 ^{+0.3} _{-0.3}	1.8 ^{+0.3} _{-0.2}	1.9 ^{+0.2} _{-0.3}	2.2 ^{+0.4} _{-0.3}
	This work (final)	Pál et al. (2008)	Christiansen et al. (2010)	Welsh et al. (2010)	Christensen-Dalsgaard et al. (2010)	
M_A (M _⊙)	1.511 ± 0.039 ± 0.017	1.47 ^{+0.08} _{-0.05}	1.47 ± 0.08 adopted	1.53 ± 0.04	1.520 ± 0.036	
R_A (R _⊙)	1.955 ± 0.019 ± 0.007	1.84 ^{+0.23} _{-0.1}	1.824 ± 0.089	1.98 ± 0.02	1.991 ± 0.018	
log g_A (cgs)	4.0354 ± 0.0049 ± 0.0017	4.07 ^{+0.04} _{-0.0}				
ρ_A (ρ _⊙)	0.2023 ± 0.0024				0.1926 ± 0.0023	
M_b (M _{Jup})	1.799 ± 0.038 ± 0.014	1.776 ^{+0.077} _{-0.049}	1.776 ± 0.077 adopted	1.82 ± 0.03		
R_b (R _{Jup})	1.465 ± 0.015 ± 0.006	1.363 ^{+0.195} _{-0.087}	1.342 ± 0.068	1.50 ± 0.02		
g_b (m s ⁻¹)	20.77 ± 0.33	20.4 ^{+4.1} _{-3.4}				
ρ_b (ρ _{Jup})	0.535 ± 0.011 ± 0.002	0.66 ^{+0.13} _{-0.18}				
T'_{eq} (K)	2194 ± 27			2885 ± 100		
Θ	0.06178 ± 0.00098 ± 0.00024					
a (AU)	0.03805 ± 0.00033 ± 0.00015	0.0377 ± 0.0005		0.03824 ± 0.00009		
Age (Gyr)	2.0 ^{+0.4} _{-0.3} ^{+0.3} _{-0.2}	2.2 ± 1.0				

Table A69. Parameters of the JKTEBOP best fits of the *Kepler* light curve of HAT-P-11, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as BJD – 2454000.0. The light curve contains 12532 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.06708 ± 0.00044	0.06431 ± 0.00079	0.06521 ± 0.00045	0.06458 ± 0.00080	0.06545 ± 0.00042
k	0.05880 ± 0.00013	0.05820 ± 0.00022	0.05861 ± 0.00012	0.05786 ± 0.00023	0.05901 ± 0.00011
i (deg.)	88.93 ± 0.09	89.92 ± 0.36	89.35 ± 0.14	89.93 ± 0.37	89.22 ± 0.11
u_A	0.70 fixed	0.60 fixed	0.45 fixed	0.80 fixed	0.60 fixed
v_A		0.12 fixed	0.33 fixed	0.15 fixed	0.06 fixed
T_0	957.812592 ± 0.000016	957.812542 ± 0.000022	957.812503 ± 0.000024	957.812484 ± 0.000034	957.812569 ± 0.000014
r_A	0.06336 ± 0.00041	0.06077 ± 0.00074	0.06160 ± 0.00041	0.06105 ± 0.00074	0.06180 ± 0.00039
r_b	0.003725 ± 0.000032	0.003537 ± 0.000055	0.003610 ± 0.000032	0.003532 ± 0.000057	0.003647 ± 0.000029
σ (mmag)	0.1414	0.1391	0.1388	0.1405	0.1392
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.06615 ± 0.00041	0.06489 ± 0.00067	0.06523 ± 0.00051	0.06483 ± 0.00064	0.06548 ± 0.00083
k	0.05911 ± 0.00012	0.05858 ± 0.00027	0.05867 ± 0.00015	0.05851 ± 0.00027	0.05881 ± 0.00036
i (deg.)	89.05 ± 0.09	89.45 ± 0.31	89.34 ± 0.16	89.49 ± 0.34	89.24 ± 0.28
u_A	0.638 ± 0.003	0.578 ± 0.032	0.445 ± 0.039	0.743 ± 0.050	0.623 ± 0.017
v_A		0.12 perturbed	0.33 perturbed	0.15 perturbed	0.06 perturbed
T_0	957.812526 ± 0.000024	957.812497 ± 0.000029	957.812504 ± 0.000026	957.812495 ± 0.000027	957.812511 ± 0.000029
r_A	0.06245 ± 0.00038	0.06130 ± 0.00061	0.06161 ± 0.00047	0.06124 ± 0.00058	0.06184 ± 0.00077
r_b	0.003692 ± 0.000030	0.003591 ± 0.000053	0.003615 ± 0.000037	0.003583 ± 0.000051	0.003637 ± 0.000067
σ (mmag)	0.1390	0.1388	0.1388	0.1387	0.1388
Fitting for both LD coefficients					
$r_A + r_b$	0.06615 ± 0.00044	0.06419 ± 0.00111	0.06674 ± 0.00093	0.06786 ± 0.00086	0.06658 ± 0.00063
k	0.05911 ± 0.00012	0.05837 ± 0.00017	0.05619 ± 0.00042	0.05631 ± 0.00018	0.05623 ± 0.00035
i (deg.)	89.05 ± 0.10	89.94 ± 0.39	89.76 ± 0.29	89.33 ± 0.25	89.93 ± 0.30
u_A	0.6379 ± 0.0029	0.5767 ± 0.0114	-1.0920 ± 0.2519	1.5495 ± 0.0399	0.5494 ± 0.0067
v_A		0.125 ± 0.022	3.146 ± 0.477	1.133 ± 0.051	0.821 ± 0.078
T_0	957.812526 ± 0.000025	957.812483 ± 0.000033	957.812488 ± 0.000027	957.812505 ± 0.000028	957.812487 ± 0.000031
r_A	0.06245 ± 0.00041	0.06065 ± 0.00103	0.06319 ± 0.00090	0.06424 ± 0.00081	0.06303 ± 0.00059
r_b	0.003692 ± 0.000031	0.003540 ± 0.000059	0.003551 ± 0.000036	0.003617 ± 0.000052	0.003544 ± 0.000038
σ (mmag)	0.1390	0.1388	0.1411	0.1429	0.1414

Table A70. Parameters of the JKTEBOP best fits of the HAT-P-11 z -band light curve from Bakos et al. (2010), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 411 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.0651 ± 0.0024	0.0630 ± 0.0021	0.0629 ± 0.0021	0.0629 ± 0.0021	0.0625 ± 0.0020
k	0.05677 ± 0.00055	0.05655 ± 0.00038	0.05664 ± 0.00045	0.05667 ± 0.00041	0.05753 ± 0.00030
i (deg.)	89.07 ± 0.55	89.99 ± 0.62	89.92 ± 0.62	89.94 ± 0.62	89.93 ± 0.61
u_A	0.57 fixed	0.35 fixed	0.21 fixed	0.64 fixed	0.30 fixed
v_A		0.28 fixed	0.48 fixed	0.23 fixed	0.15 fixed
r_A	0.0616 ± 0.0022	0.0597 ± 0.0019	0.0595 ± 0.0020	0.0596 ± 0.0019	0.0591 ± 0.0019
r_b	0.00350 ± 0.00016	0.00337 ± 0.00013	0.00337 ± 0.00014	0.00338 ± 0.00013	0.00340 ± 0.00012
σ (mmag)	0.8604	0.8594	0.8587	0.8589	0.8619
χ^2_{red}	19.2076	19.1608	19.1315	19.1408	19.2776
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.0627 ± 0.0026	0.0649 ± 0.0023	0.0635 ± 0.0017	0.0629 ± 0.0024	0.0630 ± 0.0022
k	0.05684 ± 0.00054	0.05699 ± 0.00051	0.05680 ± 0.00039	0.05666 ± 0.00050	0.05670 ± 0.00049
i (deg.)	90.00 ± 0.68	89.11 ± 0.59	89.50 ± 0.55	89.95 ± 0.66	89.79 ± 0.64
u_A	0.486 ± 0.020	0.333 ± 0.039	0.204 ± 0.043	0.641 ± 0.048	0.445 ± 0.026
v_A		0.28 perturbed	0.48 perturbed	0.23 perturbed	0.15 perturbed
r_A	0.0593 ± 0.0024	0.0614 ± 0.0022	0.0601 ± 0.0016	0.0596 ± 0.0022	0.0596 ± 0.0021
r_b	0.00337 ± 0.00016	0.00350 ± 0.00015	0.00341 ± 0.00011	0.00337 ± 0.00016	0.00338 ± 0.00014
σ (mmag)	0.8583	0.8602	0.8590	0.8589	0.8589
χ^2_{red}	19.1558	19.2465	19.1908	19.1877	19.1841

Table A71. Final parameters of the JKTEBOP fit to the *Kepler* and *z*-band light curve of HAT-P-11, compared to parameters found in other studies. Quantities without quoted uncertainties were not given in other studies but have been calculated from other parameters which were.

	This work (<i>Kepler</i>)	This work (<i>z</i> -band)	This work (final)
$r_A + r_b$	0.06510 ± 0.00089	0.0636 ± 0.0115	0.06508 ± 0.00088
k	0.05863 ± 0.00037	0.0568 ± 0.0024	0.05860 ± 0.00037
i ($^\circ$)	89.35 ± 0.36	$89.56^{+0.44}_{-3.19}$	89.36 ± 0.36
r_A	0.06148 ± 0.00082	0.0601 ± 0.0108	0.06148 ± 0.00082
r_b	0.003606 ± 0.000071	0.00341 ± 0.00075	0.003604 ± 0.000071
	Bakos et al. (2010)	Dittmann et al. (2009)	Hirano et al. (2011)
$r_A + r_b$	0.0724		0.0712
k	0.0576 ± 0.0009	0.0621 ± 0.0011	0.0576 ± 0.0090
i ($^\circ$)	88.5 ± 0.6		$89.17^{+0.46}_{-0.60}$
r_A	$0.06849^{+0.0060}_{-0.0090}$		0.0673 ± 0.0018
r_b	0.00395		0.00388

Table A72. Derived physical properties of the HAT-P-11 system. The upper part of the table contains the individual results from this work; in each case $g_b = 13.2 \pm 1.1 \text{ m s}^{-2}$, $\rho_A = 2.415 \pm 0.097 \rho_\odot$ and $T'_{\text{eq}} = 838 \pm 10 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y^2 models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s^{-1})	121.6 ± 2.9	120.1 ± 1.1	119.3 ± 1.1	119.7 ± 1.7	119.0 ± 1.0	119.8 ± 1.0
M_A (M_\odot)	0.8534 ± 0.0574	0.8228 ± 0.0133	0.8069 ± 0.0104	0.8157 ± 0.0259	0.7998 ± 0.0086	0.8163 ± 0.0101
R_A (R_\odot)	0.707 ± 0.019	0.698 ± 0.011	0.694 ± 0.012	0.696 ± 0.014	0.692 ± 0.011	0.697 ± 0.011
$\log g_A$ (cgs)	4.671 ± 0.015	4.665 ± 0.011	4.662 ± 0.010	4.664 ± 0.012	4.661 ± 0.011	4.664 ± 0.011
M_b (M_{Jup})	0.0868 ± 0.0077	0.0847 ± 0.0066	0.0836 ± 0.0064	0.0842 ± 0.0068	0.0831 ± 0.0064	0.0842 ± 0.0065
R_b (R_{Jup})	0.4032 ± 0.0120	0.3983 ± 0.0081	0.3958 ± 0.0080	0.3972 ± 0.0092	0.3946 ± 0.0079	0.3973 ± 0.0080
ρ_b (ρ_{Jup})	1.24 ± 0.12	1.25 ± 0.12	1.26 ± 0.12	1.26 ± 0.12	1.26 ± 0.12	1.26 ± 0.12
Θ	0.0269 ± 0.0022	0.0273 ± 0.0022	0.0274 ± 0.0022	0.0273 ± 0.0022	0.0275 ± 0.0022	0.0273 ± 0.0022
a (AU)	0.05347 ± 0.00120	0.05282 ± 0.00028	0.05248 ± 0.00023	0.05267 ± 0.00056	0.05232 ± 0.00019	0.05268 ± 0.00022
Age (Gyr)		$1.0^{+0.0}_{-0.0}$	$1.0^{+0.0}_{-0.0}$	$1.0^{+5.0}_{-0.0}$	$1.0^{+0.0}_{-0.0}$	$1.0^{+0.0}_{-0.0}$
	This work (final)	Bakos et al. (2010)	Dittmann et al. (2009)	Christensen-Dalsgaard et al. (2010)		
M_A (M_\odot)	$0.812 \pm 0.026 \pm 0.012$	$0.809^{+0.020}_{-0.027}$				
R_A (R_\odot)	$0.695 \pm 0.014 \pm 0.004$	0.752 ± 0.021				
$\log g_A$ (cgs)	$4.663 \pm 0.012 \pm 0.002$	4.59 ± 0.03				
ρ_A (ρ_\odot)	2.415 ± 0.097				1.7846 ± 0.0006	
M_b (M_{Jup})	$0.0840 \pm 0.0068 \pm 0.0009$	0.081 ± 0.009				
R_b (R_{Jup})	$0.3966 \pm 0.0092 \pm 0.0020$	0.422 ± 0.014	0.452 ± 0.020			
g_b (m s^{-2})	13.2 ± 1.1	11.2 ± 1.6				
ρ_b (ρ_{Jup})	$1.26 \pm 0.12 \pm 0.01$	1.00 ± 0.15				
T'_{eq} (K)	838 ± 10	878 ± 15				
Θ	$0.0274 \pm 0.0022 \pm 0.0001$	0.025 ± 0.003				
a (AU)	$0.05259 \pm 0.00056 \pm 0.00027$	$0.0530^{+0.0002}_{-0.0008}$				
Age (Gyr)	unconstrained	$6.5^{+5.9}_{-4.1}$				

Table A73. Parameters of the JKTEBOP best fits of the HD 17156 ($b + y$)/2-band light curve from Winn et al. (2009c), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 523 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	$0.0417^{+0.0094}_{-0.0019}$	$0.0410^{+0.0076}_{-0.0023}$	$0.0401^{+0.0086}_{-0.0015}$	$0.0401^{+0.0076}_{-0.0016}$	$0.0397^{+0.0084}_{-0.0019}$
k	$0.0709^{+0.0049}_{-0.0020}$	$0.0685^{+0.0034}_{-0.0018}$	$0.0701^{+0.0033}_{-0.0020}$	$0.0700^{+0.0035}_{-0.0017}$	$0.0710^{+0.0031}_{-0.0017}$
i (deg.)	$88.2^{+1.8}_{-3.1}$	$89.7^{+1.9}_{-2.5}$	$90.0^{+1.3}_{-3.1}$	$89.9^{+1.3}_{-2.8}$	$89.9^{+1.7}_{-2.8}$
u_A	0.68 fixed	0.55 fixed	0.35 fixed	0.78 fixed	0.50 fixed
v_A		0.42 fixed	0.50 fixed	0.18 fixed	0.20 fixed
T_0	$459.69942^{+0.00088}_{-0.00110}$	$459.69972^{+0.00090}_{-0.00097}$	$459.69955^{+0.00091}_{-0.00103}$	$459.69958^{+0.00086}_{-0.00111}$	$459.69936^{+0.00080}_{-0.00099}$
r_A	$0.0389^{+0.0086}_{-0.0017}$	$0.0384^{+0.0070}_{-0.0021}$	$0.0374^{+0.0079}_{-0.0014}$	$0.0375^{+0.0069}_{-0.0015}$	$0.0371^{+0.0077}_{-0.0017}$
r_B	$0.00276^{+0.00088}_{-0.00016}$	$0.00263^{+0.00064}_{-0.00019}$	$0.00263^{+0.00074}_{-0.00014}$	$0.00263^{+0.00064}_{-0.00014}$	$0.00263^{+0.00072}_{-0.00016}$
σ (mmag)	2.3109	2.3140	2.3085	2.3091	2.3045
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	$0.0405^{+0.0080}_{-0.0017}$	$0.0394^{+0.0072}_{-0.0015}$	$0.0401^{+0.0078}_{-0.0019}$	$0.0400^{+0.0089}_{-0.0018}$	$0.0395^{+0.0086}_{-0.0025}$
k	$0.0732^{+0.0020}_{-0.0022}$	$0.0722^{+0.0020}_{-0.0020}$	$0.0728^{+0.0022}_{-0.0020}$	$0.0728^{+0.0023}_{-0.0022}$	$0.0725^{+0.0022}_{-0.0023}$
i (deg.)	$88.4^{+1.7}_{-2.8}$	$90.0^{+1.3}_{-2.8}$	$88.7^{+1.7}_{-2.8}$	$88.7^{+1.6}_{-3.1}$	$89.2^{+2.1}_{-2.8}$
u_A	$0.39^{+0.15}_{-0.19}$	$0.18^{+0.17}_{-0.21}$	$0.09^{+0.17}_{-0.18}$	$0.51^{+0.17}_{-0.19}$	$0.34^{+0.16}_{-0.21}$
v_A		0.42 perturbed	0.50 perturbed	0.18 perturbed	0.20 perturbed
T_0	$459.69908^{+0.00077}_{-0.00092}$	$459.69924^{+0.00074}_{-0.00089}$	$459.69913^{+0.00078}_{-0.00089}$	$459.69914^{+0.00080}_{-0.00097}$	$459.69918^{+0.00079}_{-0.00098}$
r_A	$0.0377^{+0.0073}_{-0.0018}$	$0.0367^{+0.0066}_{-0.0015}$	$0.0374^{+0.0073}_{-0.0018}$	$0.0373^{+0.0081}_{-0.0016}$	$0.0369^{+0.0080}_{-0.0023}$
r_B	$0.00276^{+0.00066}_{-0.00014}$	$0.00265^{+0.00055}_{-0.00012}$	$0.00272^{+0.00063}_{-0.00015}$	$0.00272^{+0.00072}_{-0.00014}$	$0.00267^{+0.00073}_{-0.00018}$
σ (mmag)	2.3014	2.3028	2.3017	2.3017	2.3017

Table A74. Parameters of the JKTEBOP best fits of the HD 17156 z -band light curve from Winn et al. (2009c), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 849 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.0513 ± 0.0059	0.0479 ± 0.0052	0.0507 ± 0.0059	0.0491 ± 0.0057	0.0505 ± 0.0051
k	0.0737 ± 0.0020	0.0725 ± 0.0015	0.0735 ± 0.0017	0.0730 ± 0.0015	0.0739 ± 0.0013
i (deg.)	85.5 ± 1.8	86.6 ± 2.4	85.7 ± 1.8	86.1 ± 2.1	85.6 ± 1.5
u_A	0.47 fixed	0.20 fixed	0.03 fixed	0.55 fixed	0.20 fixed
v_A		0.33 fixed	0.57 fixed	0.29 fixed	0.15 fixed
T_0	459.69963 ± 0.00080	459.69989 ± 0.00071	459.69971 ± 0.00081	459.69983 ± 0.00071	459.69978 ± 0.00065
r_A	0.0477 ± 0.0054	0.0446 ± 0.0048	0.0472 ± 0.0055	0.0458 ± 0.0053	0.0470 ± 0.0047
r_B	0.00352 ± 0.00048	0.00324 ± 0.00041	0.00347 ± 0.00046	0.00334 ± 0.00045	0.00347 ± 0.00040
σ (mmag)	2.2442	2.2427	2.2415	2.2418	2.2398
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.0511 ± 0.0051	0.0508 ± 0.0059	0.0508 ± 0.0056	0.0509 ± 0.0055	0.0505 ± 0.0053
k	0.0742 ± 0.0014	0.0737 ± 0.0014	0.0739 ± 0.0014	0.0738 ± 0.0013	0.0739 ± 0.0013
i (deg.)	85.5 ± 1.5	85.6 ± 1.8	85.6 ± 1.8	85.5 ± 1.7	85.6 ± 1.6
u_A	0.26 ± 0.12	0.02 ± 0.15	-0.10 ± 0.15	0.41 ± 0.15	0.19 ± 0.14
v_A		0.33 perturbed	0.57 perturbed	0.29 perturbed	0.15 perturbed
T_0	459.69973 ± 0.00071	459.69975 ± 0.00073	459.69976 ± 0.00076	459.69974 ± 0.00078	459.69978 ± 0.00075
r_A	0.0475 ± 0.0048	0.0473 ± 0.0054	0.0473 ± 0.0051	0.0474 ± 0.0051	0.0470 ± 0.0049
r_B	0.00353 ± 0.00040	0.00349 ± 0.00045	0.00349 ± 0.00044	0.00350 ± 0.00042	0.00347 ± 0.00041
σ (mmag)	2.2394	2.2400	2.2397	2.2399	2.2398

Table A75. Parameters of the JKTEBOP best fits of the HST/FGS curve of HD 17156, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD/BJD – 2454000.0. The light curve contains 2048 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.04612 ± 0.00059	0.04573 ± 0.00052	0.04608 ± 0.00057	0.04597 ± 0.00056	0.05048 ± 0.00047
k	0.07411 ± 0.00026	0.07401 ± 0.00018	0.07440 ± 0.00021	0.07428 ± 0.00019	0.07682 ± 0.00011
i (deg.)	86.63 ± 0.18	86.76 ± 0.16	86.61 ± 0.17	86.65 ± 0.17	85.19 ± 0.12
u_A	0.66 fixed	0.38 fixed	0.25 fixed	0.74 fixed	0.35 fixed
v_A		0.33 fixed	0.54 fixed	0.27 fixed	0.15 fixed
T_0	820.378552 ± 0.000066	820.378604 ± 0.000059	820.378568 ± 0.000059	820.378580 ± 0.000057	820.378110 ± 0.000059
r_A	0.04294 ± 0.00054	0.04258 ± 0.00047	0.04289 ± 0.00052	0.04279 ± 0.00052	0.04688 ± 0.00043
r_b	0.003182 ± 0.000050	0.003151 ± 0.000042	0.003191 ± 0.000046	0.003179 ± 0.000046	0.003601 ± 0.000036
σ (mmag)	0.2102	0.2038	0.2040	0.2038	0.2212
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.04669 ± 0.00056	0.04539 ± 0.00069	0.04606 ± 0.00058	0.04576 ± 0.00063	0.04597 ± 0.00065
k	0.07507 ± 0.00023	0.07377 ± 0.00036	0.07438 ± 0.00024	0.07409 ± 0.00034	0.07435 ± 0.00040
i (deg.)	86.36 ± 0.16	86.89 ± 0.23	86.62 ± 0.17	86.74 ± 0.21	86.65 ± 0.22
u_A	0.574 ± 0.008	0.393 ± 0.034	0.252 ± 0.040	0.752 ± 0.048	0.531 ± 0.018
v_A		0.33 perturbed	0.54 perturbed	0.27 perturbed	0.15 perturbed
T_0	820.378501 ± 0.000059	820.378636 ± 0.000073	820.378571 ± 0.000060	820.378601 ± 0.000068	820.378578 ± 0.000069
r_A	0.04343 ± 0.00051	0.04228 ± 0.00063	0.04287 ± 0.00053	0.04260 ± 0.00058	0.04279 ± 0.00059
r_b	0.003260 ± 0.000046	0.003119 ± 0.000059	0.003188 ± 0.000048	0.003156 ± 0.000056	0.003181 ± 0.000058
σ (mmag)	0.2047	0.2037	0.2040	0.2038	0.2039
Fitting for both LD coefficients					
$r_A + r_b$	0.04669 ± 0.00055	0.04547 ± 0.00066	0.04530 ± 0.00072	0.04530 ± 0.00070	0.04519 ± 0.00075
k	0.07507 ± 0.00022	0.07386 ± 0.00040	0.07335 ± 0.00058	0.07356 ± 0.00047	0.07347 ± 0.00052
i (deg.)	86.36 ± 0.16	86.85 ± 0.23	86.99 ± 0.28	86.95 ± 0.27	87.00 ± 0.30
u_A	0.574 ± 0.008	0.405 ± 0.037	-0.210 ± 0.205	0.851 ± 0.068	0.492 ± 0.018
v_A		0.307 ± 0.071	1.337 ± 0.359	0.410 ± 0.094	0.323 ± 0.081
T_0	820.378501 ± 0.000060	820.378628 ± 0.000074	820.378658 ± 0.000080	820.378650 ± 0.000077	820.378662 ± 0.000081
r_A	0.04343 ± 0.00051	0.04235 ± 0.00060	0.04220 ± 0.00065	0.04220 ± 0.00064	0.04210 ± 0.00068
r_b	0.003260 ± 0.000046	0.003128 ± 0.000059	0.003096 ± 0.000069	0.003104 ± 0.000064	0.003093 ± 0.000071
σ (mmag)	0.2047	0.2037	0.2037	0.2037	0.2037

Table A76. Final parameters of the JKTEBOP fit to the HST/FGS and z - and $(b + y)/2$ -band light curves of HD 17156, compared to parameters found in other studies. Quantities without quoted uncertainties were not given in other studies but have been calculated from other parameters which were.

	This work $((b + y)/2)$	This work (z -band)	This work (HST/FGS)	This work (final)		Barbieri et al. (2007)
$r_A + r_b$	$0.0398^{+0.0089}_{-0.0026}$	0.0507 ± 0.0066	0.04533 ± 0.00087	0.04533 ± 0.00087		
k	$0.0726^{+0.0023}_{-0.0024}$	0.0738 ± 0.0026	0.07361 ± 0.00064	0.07361 ± 0.00064		0.08007 ± 0.0028
i ($^\circ$)	$89.1^{+0.9}_{-3.2}$	85.6 ± 2.1	86.94 ± 0.34	86.94 ± 0.34		87.89 ± 0.10
r_A	$0.0371^{+0.0082}_{-0.0024}$	0.0472 ± 0.0061	0.04222 ± 0.00079	0.04222 ± 0.00079		0.046
r_b	$0.00269^{+0.00073}_{-0.00018}$	0.00349 ± 0.00050	0.003107 ± 0.000081	0.003107 ± 0.000081		0.0037
	Gillon et al. (2008)	Irwin et al. (2008)	Narita et al. (2008)	Barbieri et al. (2009)	Winn et al. (2009c)	Nutzman et al. (2011)
$r_A + r_b$	0.04238		0.0495	0.04450		0.04633
k	$0.07320^{+0.00036}_{-0.00041}$	0.070 ± 0.003	0.0846 ± 0.0026	0.0727 ± 0.0006		0.07454 ± 0.00035
i ($^\circ$)	$88.23^{+0.17}_{-0.05}$	$86.5^{+1.1}_{-0.7}$	85.65 ± 0.29	87.89 ± 0.11		$86.49^{+0.24}_{-0.20}$
r_A	$0.03949^{+0.00026}_{-0.00035}$		0.0456	0.04148		$0.04312^{+0.00050}_{-0.00060}$
r_b	$0.002891^{+0.00022}_{-0.000032}$		0.00386	0.000302		0.003214

Table A77. Derived physical properties of the HD 17156 system. The upper part of the table contains the individual results from this work; in each case $g_b = 71.2 \pm 3.7 \text{ m s}^{-2}$, $\rho_A = 0.395 \pm 0.022 \rho_\odot$ and $T'_{\text{eq}} = 883 \pm 11 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	116.35 ± 2.66	112.93 ± 0.81	113.35 ± 0.90	113.77 ± 0.77	112.76 ± 0.80	115.11 ± 1.61
M_A (M _⊙)	1.394 ± 0.094	1.275 ± 0.022	1.289 ± 0.026	1.303 ± 0.018	1.269 ± 0.022	1.350 ± 0.046
R_A (R _⊙)	1.523 ± 0.047	1.478 ± 0.032	1.484 ± 0.033	1.489 ± 0.023	1.476 ± 0.033	1.507 ± 0.037
log g_A (cgs)	4.217 ± 0.018	4.204 ± 0.015	4.206 ± 0.015	4.208 ± 0.018	4.204 ± 0.015	4.213 ± 0.018
M_b (M _{Jup})	3.421 ± 0.156	3.224 ± 0.047	3.248 ± 0.052	3.272 ± 0.045	3.214 ± 0.046	3.349 ± 0.072
R_b (R _{Jup})	1.091 ± 0.037	1.059 ± 0.028	1.063 ± 0.028	1.067 ± 0.028	1.058 ± 0.028	1.080 ± 0.033
ρ_b (ρ _{Jup})	2.46 ± 0.20	2.54 ± 0.20	2.53 ± 0.20	2.52 ± 0.20	2.54 ± 0.20	2.49 ± 0.20
Θ	0.754 ± 0.027	0.776 ± 0.022	0.774 ± 0.022	0.771 ± 0.021	0.778 ± 0.022	0.762 ± 0.026
a (AU)	0.16767 ± 0.00376	0.16276 ± 0.00093	0.16336 ± 0.00109	0.16396 ± 0.00073	0.16251 ± 0.00092	0.16590 ± 0.00193
Age (Gyr)		3.2 ^{+0.4} _{-0.3}	2.9 ^{+0.3} _{-0.4}	2.9 ^{+0.0} _{-0.6}	2.8 ^{+0.3} _{-0.3}	2.4 ^{+1.1} _{-0.1}
	This work (final)	Fischer et al. (2007)	Barbieri et al. (2007)	Gillon et al. (2008)	Irwin et al. (2008)	
M_A (M _⊙)	1.297 ± 0.046 ± 0.053	1.2 ± 0.1	1.2 adopted	1.2 ± 0.1 adopted	1.2 fixed	
R_A (R _⊙)	1.487 ± 0.037 ± 0.020	1.47 ^{+0.13} _{-0.17}	1.47 adopted	1.354 ^{+0.012} _{-0.037}	1.47 ± 0.08	
log g_A (cgs)	4.207 ± 0.018 ± 0.006	4.29 ± 0.06				
ρ_A (ρ _⊙)	0.395 ± 0.022					
M_b (M _{Jup})	3.262 ± 0.072 ± 0.088		3.12 ± 0.5	3.111 ^{+0.035} _{-0.013}	3.13 ± 0.11 adopted	
R_b (R _{Jup})	1.065 ± 0.033 ± 0.014		1.15 ± 0.11	0.964 ^{+0.016} _{-0.027}	1.01 ± 0.09	
g_b (m s ⁻¹)	71.2 ± 3.7					
ρ_b (ρ _{Jup})	2.52 ± 0.20 ± 0.03		1.95 ± 0.63	1.66 ^{+1.37} _{-0.60}	2.9 ^{+0.6} _{-0.8}	
T'_{eq} (K)	883 ± 11					
Θ	0.772 ± 0.026 ± 0.010					
a (AU)	0.1637 ± 0.0019 ± 0.0022			0.1594 ^{+0.0012} _{-0.0041}		
Age (Gyr)	2.8 ^{+1.1} _{-0.6} ^{+0.4} _{-0.4}	5.7 ^{+1.3} _{-0.9}				
	Winn et al. (2009c)	Barbieri et al. (2009)	van Belle et al. (2009)	Gonzalez et al. (2010)	Gilliland et al. (2011)	Nutzman et al. (2011)
M_A (M _⊙)	1.263 ^{+0.035} _{-0.047}	1.24 ± 0.03		1.16 ± 0.03	1.285 ± 0.026	1.275 ± 0.018
R_A (R _⊙)	1.446 ^{+0.099} _{-0.06}	1.44 ± 0.08	1.36 ± 0.08		1.507 ± 0.012	1.5007 ± 0.0076
log g_A (cgs)	4.219 ^{+0.033} _{-0.055}	4.22 ± 0.05		4.22 ± 0.05	4.191 ± 0.004	
ρ_A (ρ _⊙)	0.418 ^{+0.047} _{-0.073}	0.42 ± 0.04			0.3765 ± 0.0031	0.3770 ± 0.0028
M_b (M _{Jup})	3.212 ^{+0.069} _{-0.082}	3.22 ± 0.08				3.191 ± 0.033
R_b (R _{Jup})	1.023 ^{+0.070} _{-0.055}	1.02 ± 0.08				1.0870 ± 0.0066
g_b (m s ⁻¹)	76.1 ^{+7.3} _{-9.0}	78 ± 11				67.0 ± 2.4
ρ_b (ρ _{Jup})	2.80 ± 0.51	2.84 ± 0.05				
T'_{eq} (K)						
Θ						
a (AU)	0.1623 ^{+0.0015} _{-0.0020}	0.1614 ± 0.0022				
Age (Gyr)	3.06 ^{+0.76} _{-0.64}	2.6 ± 1.0		3.5 ± 1.2	3.2 ± 0.3	3.38 ^{+0.20} _{-0.47}

Table A78. Parameters of the JKTEBOP best fits of the HD 80606 *Spitzer*/IRAC 4.5 μm light curve from Hébrard et al. (2010), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2455000.0. The light curve contains 318 binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.01135 ± 0.00012	0.01123 ± 0.00012	0.01128 ± 0.00012	0.01125 ± 0.00012	0.01144 ± 0.00012
k	0.10050 ± 0.00022	0.10016 ± 0.00021	0.10040 ± 0.00022	0.10030 ± 0.00023	0.09973 ± 0.00021
i (deg.)	89.265 ± 0.021	89.285 ± 0.020	89.278 ± 0.020	89.282 ± 0.020	89.254 ± 0.021
u_A	0.17 fixed	0.05 fixed	0.00 fixed	0.28 fixed	0.05 fixed
v_A		0.20 fixed	0.30 fixed	0.16 fixed	0.10 fixed
T_0	210.65060 ± 0.00050	210.65018 ± 0.00048	210.65032 ± 0.00051	210.65023 ± 0.00049	210.65084 ± 0.00047
r_A	0.01032 ± 0.00011	0.01021 ± 0.00011	0.01025 ± 0.00011	0.01022 ± 0.00011	0.01040 ± 0.00011
r_b	0.001037 ± 0.000012	0.001023 ± 0.000012	0.001029 ± 0.000012	0.001025 ± 0.000012	0.001037 ± 0.000012
σ (mmag)	0.3161	0.3190	0.3177	0.3184	0.3145
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.01155 ± 0.00014	0.01162 ± 0.00014	0.01157 ± 0.00014	0.01161 ± 0.00015	0.01161 ± 0.00015
k	0.09956 ± 0.00053	0.09875 ± 0.00057	0.09917 ± 0.00050	0.09894 ± 0.00055	0.09902 ± 0.00062
i (deg.)	89.237 ± 0.023	89.229 ± 0.024	89.237 ± 0.024	89.230 ± 0.024	89.231 ± 0.023
u_A	0.039 ± 0.065	-0.174 ± 0.094	-0.182 ± 0.076	0.072 ± 0.072	-0.051 ± 0.086
v_A		0.20 perturbed	0.30 perturbed	0.16 perturbed	0.10 perturbed
T_0	210.65123 ± 0.00055	210.65139 ± 0.00055	210.65122 ± 0.00059	210.65136 ± 0.00057	210.65135 ± 0.00057
r_A	0.01051 ± 0.00013	0.01057 ± 0.00013	0.01053 ± 0.00013	0.01056 ± 0.00013	0.01056 ± 0.00014
r_b	0.001046 ± 0.000011	0.001044 ± 0.000011	0.001044 ± 0.000012	0.001045 ± 0.000011	0.001046 ± 0.000011
σ (mmag)	0.3145	0.3140	0.3141	0.3141	0.3141
Fitting for both LD coefficients					
$r_A + r_b$	0.01155 ± 0.00015	0.01182 ± 0.00026	0.01191 ± 0.00027	0.01197 ± 0.00026	0.01188 ± 0.00026
k	0.0996 ± 0.0005	0.0926 ± 0.0040	0.0913 ± 0.0032	0.0895 ± 0.0038	0.0909 ± 0.0038
i (deg.)	89.237 ± 0.023	89.215 ± 0.033	89.219 ± 0.030	89.211 ± 0.031	89.217 ± 0.032
u_A	0.0 ± 0.1	-3.0 ± 3.2	-8.1 ± 4.5	1.6 ± 1.2	-2.5 ± 2.0
v_A		2.9 ± 3.1	11.3 ± 6.3	5.8 ± 4.4	3.1 ± 2.5
T_0	210.65123 ± 0.00056	210.65174 ± 0.00085	210.65166 ± 0.00074	210.65186 ± 0.00080	210.65171 ± 0.00074
r_A	0.01051 ± 0.00014	0.01082 ± 0.00027	0.01091 ± 0.00027	0.01098 ± 0.00027	0.01089 ± 0.00027
r_b	0.001046 ± 0.000012	0.001001 ± 0.000026	0.000996 ± 0.000019	0.000983 ± 0.000024	0.000990 ± 0.000025
σ (mmag)	0.3145	0.3116	0.3112	0.3110	0.3111

Table A79. Final parameters of the fit to the *Spitzer* light curve of HD 80606 from the JKTEBOP analysis, compared to those found by other authors. Quantities without quoted uncertainties were not given in the relevant studies so have been calculated from other parameters which were.

	This work	Moutou et al. (2009)	Garcia-Melendo & McCullough (2009)	Fossey et al. (2009)
$r_A + r_b$	0.01160 ± 0.00025	0.0110	0.0111	0.0114
k	0.09898 ± 0.00077	0.094 ± 0.009	$0.11^{+0.04}_{-0.02}$	0.1057 ± 0.0018
i ($^\circ$)	89.232 ± 0.029	89.6 ± 0.4	$89.26^{+0.24}_{-0.09}$	89.285 ± 0.023
r_A	0.01056 ± 0.00024	0.0101	0.01 fixed	0.103 fixed
r_b	0.001045 ± 0.000019	0.00095	0.0011	0.00109
	Pont et al. (2009)	Winn et al. (2009b)	Hébrard et al. (2010)	Hidas et al. (2010)
$r_A + r_b$	0.0111	0.01078	0.11341	0.01084
k	0.103 ± 0.003	0.1033 ± 0.0011	0.1001 ± 0.0006	$0.0967^{+0.0032}_{-0.0035}$
i ($^\circ$)	89.32 ± 0.06	89.324 ± 0.029	89.269 ± 0.018	$89.341^{+0.073}_{-0.063}$
r_A	0.0101	0.00977 ± 0.00028	0.01031 ± 0.00017	$0.00988^{+0.00051}_{-0.00072}$
r_b	0.00104	0.001009	0.01032	0.000955

Table A80. Derived physical properties of the HD 80606 system. The upper part of the table contains the individual results from this work; in each case $g_b = 101.4 \pm 3.9 \text{ m s}^{-2}$, $\rho_A = 0.913 \pm 0.062 \rho_\odot$ and $T'_{\text{eq}} = 405.0 \pm 7.0 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y^2 models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s^{-1})	129.4 ± 3.0	124.4 ± 1.3	124.7 ± 1.1	121.5 ± 1.7	122.0 ± 1.4	124.0 ± 1.3
M_A (M_\odot)	1.174 ± 0.080	1.045 ± 0.031	1.051 ± 0.024	0.973 ± 0.035	0.985 ± 0.033	1.035 ± 0.031
R_A (R_\odot)	1.087 ± 0.037	1.046 ± 0.024	1.048 ± 0.026	1.021 ± 0.032	1.026 ± 0.026	1.043 ± 0.025
$\log g_A$ (cgs)	4.435 ± 0.021	4.418 ± 0.021	4.419 ± 0.020	4.408 ± 0.018	4.410 ± 0.021	4.417 ± 0.021
M_b (M_{Jup})	4.526 ± 0.207	4.188 ± 0.087	4.203 ± 0.068	3.992 ± 0.096	4.026 ± 0.093	4.161 ± 0.085
R_b (R_{Jup})	1.052 ± 0.031	1.012 ± 0.022	1.014 ± 0.021	0.988 ± 0.023	0.992 ± 0.022	1.008 ± 0.022
ρ_b (ρ_{Jup})	3.64 ± 0.22	3.78 ± 0.22	3.77 ± 0.22	3.87 ± 0.23	3.86 ± 0.23	3.79 ± 0.22
Θ	3.505 ± 0.106	3.644 ± 0.081	3.637 ± 0.078	3.733 ± 0.093	3.717 ± 0.085	3.656 ± 0.081
a (AU)	0.4787 ± 0.0109	0.4605 ± 0.0046	0.4613 ± 0.0035	0.4496 ± 0.0054	0.4515 ± 0.0050	0.4590 ± 0.0045
Age (Gyr)		$4.3^{+1.3}_{-2.0}$	$3.9^{+1.2}_{-1.1}$	$10.0^{+0.0}_{-2.2}$	$6.9^{+1.5}_{-2.1}$	$4.6^{+1.6}_{-1.4}$
	This work (final)	Moutou et al. (2009)	Garcia-Melendo & McCullough (2009)	Fossey et al. (2009)		
M_A (M_\odot)	$1.018 \pm 0.035 \pm 0.045$	0.98 ± 0.10		0.90 fixed	1.0 fixed	
R_A (R_\odot)	$1.037 \pm 0.032 \pm 0.015$	0.98 ± 0.07		1.0 fixed	1.0 fixed	
$\log g_A$ (cgs)	$4.415 \pm 0.021 \pm 0.007$					
ρ_A (ρ_\odot)	0.913 ± 0.062					
M_b (M_{Jup})	$4.114 \pm 0.096 \pm 0.122$	4.0 ± 0.3			3.9 fixed	
R_b (R_{Jup})	$1.003 \pm 0.023 \pm 0.015$	0.9 ± 0.10		1.1 fixed	1.029 ± 0.017	
g_b (m s^{-1})	101.4 ± 3.9					
ρ_b (ρ_{Jup})	$3.82 \pm 0.23 \pm 0.06$				3.35 ± 0.18	
T'_{eq} (K)	405.0 ± 7.0					
Θ	$3.677 \pm 0.093 \pm 0.055$					
a (AU)	$0.4564 \pm 0.0054 \pm 0.0068$	0.453 ± 0.015		0.469 fixed		
Age (Gyr)	$5.9^{+1.6}_{-2.2} \pm 4.1$					
	Pont et al. (2009)	Winn et al. (2009b)	Gonzalez et al. (2010)	Hébrard et al. (2010)	Hidas et al. (2010)	
M_A (M_\odot)	0.97 ± 0.04	1.05 ± 0.032	0.98 ± 0.06	1.01 ± 0.05 adopted		
R_A (R_\odot)	0.978 ± 0.015	0.968 ± 0.028		1.007 ± 0.024	0.978 ± 0.015 adopted	
$\log g_A$ (cgs)		4.487 ± 0.021	4.33 ± 0.07			
ρ_A (ρ_\odot)		1.16 ± 0.11		0.992 ± 0.050		
M_b (M_{Jup})	3.94 ± 0.11	4.20 ± 0.11		4.08 ± 0.14		
R_b (R_{Jup})	0.98 ± 0.03	0.974 ± 0.030		0.981 ± 0.023	0.921 ± 0.036	
g_b (m s^{-1})		110.5 ± 8.2				
ρ_b (ρ_{Jup})		4.26 ± 0.41		4.1 ± 0.3		
T'_{eq} (K)						
Θ						
a (AU)		0.4614 ± 0.0047				
Age (Gyr)		$1.6^{+1.8}_{-1.1}$	5.5 ± 4.6			

Table A81. Parameters of the JKTEBOP best fits of the *Kepler* Q0-Q2 long-cadence light curve of Kepler-4, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 323 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	$0.1611^{+0.0020}_{-0.0018}$	$0.1604^{+0.0019}_{-0.0017}$	$0.1657^{+0.0022}_{-0.0018}$	$0.1603^{+0.0018}_{-0.0019}$	$0.1992^{+0.0017}_{-0.0018}$
k	$0.02480^{+0.00035}_{-0.00038}$	$0.02500^{+0.00039}_{-0.00035}$	$0.02515^{+0.00039}_{-0.00039}$	$0.02496^{+0.00036}_{-0.00035}$	$0.02645^{+0.00035}_{-0.00037}$
i (deg.)	$89.5552^{+0.0013}_{-0.0017}$	$89.4417^{+0.0051}_{-0.0389}$	$87.5889^{+0.0025}_{-0.0185}$	$89.6864^{+0.0026}_{-0.0139}$	$83.0742^{+0.0074}_{-0.0349}$
u_A	0.60 fixed	0.38 fixed	0.24 fixed	0.70 fixed	0.40 fixed
v_A		0.27 fixed	0.51 fixed	0.25 fixed	0.10 fixed
P	$3.21353^{+0.00023}_{-0.00022}$	$3.21352^{+0.00023}_{-0.00021}$	$3.21351^{+0.00023}_{-0.00022}$	$3.21352^{+0.00023}_{-0.00024}$	$3.21349^{+0.00022}_{-0.00020}$
T_0	$956.6121^{+0.0016}_{-0.0015}$	$956.6122^{+0.0015}_{-0.0016}$	$956.6123^{+0.0014}_{-0.0018}$	$956.6122^{+0.0015}_{-0.0016}$	$956.6125^{+0.0015}_{-0.0016}$
r_A	$0.1572^{+0.0020}_{-0.0018}$	$0.1565^{+0.0018}_{-0.0017}$	$0.1616^{+0.0022}_{-0.0017}$	$0.1564^{+0.0018}_{-0.0018}$	$0.1940^{+0.0017}_{-0.0017}$
r_B	$0.003898^{+0.000066}_{-0.000070}$	$0.003913^{+0.000072}_{-0.000070}$	$0.004064^{+0.000074}_{-0.000070}$	$0.003903^{+0.000067}_{-0.000066}$	$0.005138^{+0.000063}_{-0.000069}$
σ (mmag)	0.1170	0.1162	0.1164	0.1163	0.1157
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	$0.1744^{+0.0028}_{-0.0023}$	$0.1564^{+0.0026}_{-0.0024}$	$0.1560^{+0.0024}_{-0.0023}$	$0.1558^{+0.0026}_{-0.0024}$	$0.1555^{+0.0023}_{-0.0024}$
k	$0.02624^{+0.00049}_{-0.00050}$	$0.02573^{+0.00047}_{-0.00054}$	$0.02579^{+0.00050}_{-0.00050}$	$0.02575^{+0.00050}_{-0.00050}$	$0.02580^{+0.00049}_{-0.00050}$
i (deg.)	$85.4443^{+0.0016}_{-0.0164}$	$89.4325^{+0.0016}_{-0.0030}$	$89.3648^{+0.0076}_{-0.0077}$	$89.9391^{+0.0170}_{-0.0238}$	$89.9471^{+0.0206}_{-0.0182}$
u_A	$0.28^{+0.10}_{-0.12}$	$0.15^{+0.12}_{-0.12}$	$-0.02^{+0.12}_{-0.12}$	$0.46^{+0.12}_{-0.13}$	$0.25^{+0.11}_{-0.13}$
v_A		0.27 perturbed	0.51 perturbed	0.25 perturbed	0.10 perturbed
P	$3.21349^{+0.00020}_{-0.00019}$	$3.21345^{+0.00020}_{-0.00020}$	$3.21346^{+0.00019}_{-0.00021}$	$3.21345^{+0.00021}_{-0.00020}$	$3.21346^{+0.00022}_{-0.00021}$
T_0	$956.6126^{+0.0014}_{-0.0014}$	$956.6127^{+0.0014}_{-0.0014}$	$956.6127^{+0.0015}_{-0.0015}$	$956.6127^{+0.0015}_{-0.0013}$	$956.6127^{+0.0014}_{-0.0014}$
r_A	$0.1699^{+0.0027}_{-0.0022}$	$0.1525^{+0.0026}_{-0.0024}$	$0.1521^{+0.0024}_{-0.0023}$	$0.1519^{+0.0025}_{-0.0024}$	$0.1515^{+0.0022}_{-0.0024}$
r_B	$0.004459^{+0.000079}_{-0.000074}$	$0.003923^{+0.000061}_{-0.000068}$	$0.003921^{+0.000063}_{-0.000065}$	$0.003912^{+0.000065}_{-0.000074}$	$0.003910^{+0.000065}_{-0.000066}$
σ (mmag)	0.1154	0.1154	0.1154	0.1154	0.1154

Table A82. Parameters of the JKTEBOP best fits of the *Kepler* Q2 short-cadence light curve of Kepler-4, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 323 phase-binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	$0.132^{+0.054}_{-0.017}$	$0.161^{+0.038}_{-0.009}$	$0.161^{+0.037}_{-0.009}$	$0.161^{+0.035}_{-0.010}$	$0.159^{+0.033}_{-0.009}$
k	$0.02385^{+0.00153}_{-0.00071}$	$0.02432^{+0.00109}_{-0.00045}$	$0.02428^{+0.00103}_{-0.00045}$	$0.02430^{+0.00095}_{-0.00047}$	$0.02460^{+0.00074}_{-0.00038}$
i (deg.)	$89.7^{+2.8}_{-4.0}$	$88.6^{+2.3}_{-4.5}$	$88.7^{+2.1}_{-4.5}$	$88.6^{+2.2}_{-4.3}$	$89.0^{+2.2}_{-3.8}$
u_A	0.60 fixed	0.38 fixed	0.24 fixed	0.70 fixed	0.40 fixed
v_A		0.27 fixed	0.51 fixed	0.25 fixed	0.10 fixed
r_A	$0.129^{+0.052}_{-0.016}$	$0.157^{+0.037}_{-0.009}$	$0.157^{+0.036}_{-0.008}$	$0.157^{+0.034}_{-0.009}$	$0.155^{+0.032}_{-0.008}$
r_B	$0.00309^{+0.00159}_{-0.00048}$	$0.00382^{+0.00113}_{-0.00025}$	$0.00382^{+0.00111}_{-0.00024}$	$0.00382^{+0.00103}_{-0.00026}$	$0.00382^{+0.00094}_{-0.00024}$
σ (mmag)	0.0873	0.0874	0.0875	0.0874	0.0881
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	$0.133^{+0.028}_{-0.013}$	$0.161^{+0.057}_{-0.014}$	$0.161^{+0.055}_{-0.015}$	$0.161^{+0.053}_{-0.016}$	$0.146^{+0.039}_{-0.012}$
k	$0.0239^{+0.0012}_{-0.0006}$	$0.0242^{+0.0016}_{-0.0006}$	$0.0242^{+0.0015}_{-0.0006}$	$0.0242^{+0.0015}_{-0.0006}$	$0.0241^{+0.0012}_{-0.0006}$
i (deg.)	$88.5^{+2.7}_{-2.8}$	$88.7^{+3.1}_{-5.6}$	$88.8^{+3.0}_{-5.2}$	$88.8^{+3.3}_{-5.1}$	$88.6^{+2.5}_{-3.8}$
u_A	$0.612^{+0.052}_{-0.047}$	$0.416^{+0.057}_{-0.068}$	$0.257^{+0.053}_{-0.059}$	$0.727^{+0.059}_{-0.057}$	$0.552^{+0.054}_{-0.048}$
v_A		0.27 perturbed	0.51 perturbed	0.25 perturbed	0.10 perturbed
r_A	$0.130^{+0.027}_{-0.012}$	$0.157^{+0.055}_{-0.014}$	$0.157^{+0.054}_{-0.015}$	$0.157^{+0.051}_{-0.015}$	$0.142^{+0.038}_{-0.012}$
r_B	$0.0031^{+0.0009}_{-0.0004}$	$0.0038^{+0.0017}_{-0.0004}$	$0.0038^{+0.0017}_{-0.0004}$	$0.0038^{+0.0016}_{-0.0005}$	$0.0034^{+0.0012}_{-0.0004}$
σ (mmag)	0.0873	0.0874	0.0875	0.0874	0.0874

Table A83. Final parameters of the fit to the *Kepler* light curves of Kepler-4 from the JKTEBOP analysis, compared to those found by Borucki et al. (2010) and Kipping & Bakos (2011b) (their solution ‘A.c.’) from the same data. Quantities without quoted uncertainties were not given by those authors but have been calculated from other parameters which were.

	This work (LC)	This work (SC)	This work (final)	Borucki et al. (2010)	Kipping & Bakos (2011b)
$r_A + r_b$	$0.156^{+0.031}_{-0.012}$	$0.157^{+0.058}_{-0.017}$	$0.157^{+0.027}_{-0.010}$	0.1584	0.1888
k	$0.02577^{+0.00052}_{-0.00053}$	$0.02417^{+0.00159}_{-0.00063}$	$0.02561^{+0.00049}_{-0.00050}$	$0.02470^{+0.00031}_{-0.00030}$	$0.0263^{+0.0022}_{-0.0014}$
i (°)	$89.7^{+0.3}_{-3.2}$	$88.7^{+1.1}_{-5.6}$	$89.2^{+0.8}_{-2.6}$	$89.76^{+0.24}_{-2.05}$	$84.3^{+4.0}_{-6.0}$
r_A	$0.152^{+0.030}_{-0.012}$	$0.153^{+0.056}_{-0.016}$	$0.153^{+0.026}_{-0.010}$	$0.1546^{+0.0064}_{-0.0065}$	$0.184^{+0.039}_{-0.035}$
r_b	$0.00392^{+0.00088}_{-0.00036}$	$0.00371^{+0.00175}_{-0.00048}$	$0.00391^{+0.00076}_{-0.00034}$	0.00382	0.00484

Table A84. Derived physical properties of the Kepler-4 system. The upper part of the table contains the individual results from this work; in each case $g_b = 13.7^{+3.4}_{-4.9} \text{ m s}^{-2}$, $\rho_A = 0.37^{+0.10}_{-0.15} \rho_\odot$ and $T'_{\text{eq}} = 1614^{+155}_{-72} \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Υ^2 models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s $^{-1}$)	$158.0^{+5.1}_{-4.0}$	$153.8^{+2.0}_{-4.1}$	$152.9^{+5.6}_{-2.2}$	$151.1^{+6.4}_{-1.2}$	$150.7^{+8.2}_{-0.9}$	$152.1^{+2.4}_{-2.2}$
M_A (M_\odot)	$1.313^{+0.130}_{-0.098}$	$1.212^{+0.047}_{-0.095}$	$1.190^{+0.133}_{-0.050}$	$1.150^{+0.150}_{-0.027}$	$1.140^{+0.193}_{-0.018}$	$1.173^{+0.057}_{-0.049}$
R_A (R_\odot)	$1.54^{+0.30}_{-0.12}$	$1.50^{+0.27}_{-0.13}$	$1.49^{+0.31}_{-0.11}$	$1.47^{+0.31}_{-0.11}$	$1.47^{+0.33}_{-0.09}$	$1.48^{+0.27}_{-0.11}$
$\log g_A$ (cgs)	$4.184^{+0.056}_{-0.127}$	$4.172^{+0.049}_{-0.133}$	$4.170^{+0.057}_{-0.124}$	$4.165^{+0.057}_{-0.123}$	$4.163^{+0.063}_{-0.117}$	$4.168^{+0.056}_{-0.133}$
M_b (M_{Jup})	$0.0810^{+0.0117}_{-0.0112}$	$0.0767^{+0.0101}_{-0.0107}$	$0.0758^{+0.0113}_{-0.0100}$	$0.0741^{+0.0129}_{-0.0096}$	$0.0737^{+0.0125}_{-0.0095}$	$0.0751^{+0.0100}_{-0.0099}$
R_b (R_{Jup})	$0.382^{+0.075}_{-0.035}$	$0.372^{+0.072}_{-0.034}$	$0.370^{+0.073}_{-0.033}$	$0.365^{+0.073}_{-0.032}$	$0.364^{+0.074}_{-0.032}$	$0.368^{+0.072}_{-0.032}$
ρ_b (ρ_{Jup})	$1.36^{+0.46}_{-0.59}$	$1.40^{+0.48}_{-0.60}$	$1.41^{+0.48}_{-0.61}$	$1.42^{+0.48}_{-0.62}$	$1.43^{+0.48}_{-0.62}$	$1.41^{+0.48}_{-0.61}$
Θ	$0.0151^{+0.0024}_{-0.0032}$	$0.0155^{+0.0025}_{-0.0032}$	$0.0156^{+0.0025}_{-0.0033}$	$0.0157^{+0.0024}_{-0.0033}$	$0.0158^{+0.0025}_{-0.0034}$	$0.0156^{+0.0025}_{-0.0033}$
a (AU)	$0.04667^{+0.00151}_{-0.00118}$	$0.04544^{+0.00058}_{-0.00121}$	$0.04517^{+0.00164}_{-0.00064}$	$0.04466^{+0.00190}_{-0.00035}$	$0.04452^{+0.00243}_{-0.00024}$	$0.04495^{+0.00072}_{-0.00064}$
Age (Gyr)		$4.9^{+1.5}_{-1.0}$	$5.0^{+0.6}_{-1.7}$	$5.7^{+0.3}_{-2.4}$	$5.4^{+0.4}_{-2.5}$	$5.4^{+0.6}_{-1.2}$
	This work (final)	Borucki et al. (2010)	Kipping & Bakos (2011b)			
M_A (M_\odot)	$1.173^{+0.193+0.039}_{-0.095-0.033}$	$1.223^{+0.053}_{-0.091}$	$1.28^{+0.20}_{-0.13}$			
R_A (R_\odot)	$1.48^{+0.33+0.02}_{-0.13-0.01}$	$1.487^{+0.071}_{-0.084}$	$1.487^{+0.071}_{-0.084}$			
$\log g_A$ (cgs)	$4.168^{+0.063+0.005}_{-0.133-0.004}$	4.17 ± 0.04	4.17 ± 0.04			
ρ_A (ρ_\odot)	$0.362^{+0.081}_{-0.136}$	0.36 ± 0.11	$0.21^{+0.12}_{-0.13}$			
M_b (M_{Jup})	$0.075^{+0.013+0.002}_{-0.011-0.001}$	0.077 ± 0.012	$0.081^{+0.031}_{-0.030}$			
R_b (R_{Jup})	$0.368^{+0.074+0.004}_{-0.034-0.003}$	0.357 ± 0.019	$0.460^{+0.272}_{-0.084}$			
g_b (m s $^{-1}$)	$13.8^{+3.3}_{-4.5}$	$14.5^{+2.1}_{-3.0}$	$7.9^{+6.2}_{-4.6}$			
ρ_b (ρ_{Jup})	$1.41^{+0.48+0.01}_{-0.62-0.02}$	$1.44^{+0.27}_{-0.35}$	$0.65^{+0.73}_{-0.47}$			
T'_{eq} (K)	1619^{+136}_{-63}	1650 ± 200	1777^{+308}_{-132}			
Θ	$0.0156^{+0.0025+0.0001}_{-0.0034-0.0002}$					
a (AU)	$0.0449^{+0.0024+0.0005}_{-0.0012-0.0004}$	0.0456 ± 0.0009	$0.0463^{+0.0023}_{-0.0016}$			
Age (Gyr)	$5.3^{+1.5+0.4}_{-2.5-0.4}$	4.5 ± 1.5	$4.2^{+2.1}_{-1.2}$			

Table A85. Parameters of the JKTEBOP best fits of the *Kepler* ong-cadence light curve of Kepler-5, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 330 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.1858 ^{+0.0060} _{-0.0069}	0.1702 ^{+0.0051} _{-0.0016}	0.1683 ^{+0.0085} _{-0.0028}	0.1685 ^{+0.0076} _{-0.0026}	0.1843 ^{+0.0052} _{-0.0056}
k	0.08054 ^{+0.00073} _{-0.00086}	0.07862 ^{+0.00046} _{-0.00022}	0.07869 ^{+0.00091} _{-0.00032}	0.07861 ^{+0.00075} _{-0.00031}	0.08137 ^{+0.00043} _{-0.00047}
i (deg.)	85.78 ^{+0.99} _{-0.72}	88.84 ^{+1.18} _{-1.29}	89.74 ^{+1.49} _{-1.67}	89.75 ^{+1.38} _{-1.59}	85.72 ^{+0.74} _{-0.60}
u_A	0.56 fixed	0.36 fixed	0.20 fixed	0.69 fixed	0.36 fixed
v_A		0.31 fixed	0.53 fixed	0.26 fixed	0.15 fixed
P	3.548463 ^{+0.000028} _{-0.000029}	3.548461 ^{+0.000029} _{-0.000029}	3.548461 ^{+0.000030} _{-0.000029}	3.548461 ^{+0.000032} _{-0.000028}	3.548463 ^{+0.000025} _{-0.000029}
T_0	955.90124 ^{+0.00018} _{-0.00019}	955.90126 ^{+0.00019} _{-0.00019}	955.90125 ^{+0.00019} _{-0.00020}	955.90126 ^{+0.00019} _{-0.00019}	955.90126 ^{+0.00018} _{-0.00018}
r_A	0.1719 ^{+0.0054} _{-0.0063}	0.1578 ^{+0.0046} _{-0.0015}	0.1560 ^{+0.0078} _{-0.0025}	0.1562 ^{+0.0069} _{-0.0024}	0.1705 ^{+0.0047} _{-0.0051}
r_b	0.01385 ^{+0.00057} _{-0.00064}	0.01241 ^{+0.00044} _{-0.00014}	0.01228 ^{+0.00076} _{-0.00024}	0.01228 ^{+0.00067} _{-0.00024}	0.01387 ^{+0.00045} _{-0.00050}
σ (mmag)	0.1506	0.1315	0.1353	0.1330	0.1263
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.1870 ^{+0.0052} _{-0.0058}	0.1676 ^{+0.0090} _{-0.0025}	0.1799 ^{+0.0058} _{-0.0067}	0.1763 ^{+0.0063} _{-0.0076}	0.1782 ^{+0.0063} _{-0.0068}
k	0.08191 ^{+0.00047} _{-0.00056}	0.07928 ^{+0.00095} _{-0.00042}	0.08087 ^{+0.00057} _{-0.00065}	0.08037 ^{+0.00065} _{-0.00074}	0.08070 ^{+0.00066} _{-0.00072}
i (deg.)	85.3 ^{+0.7} _{-0.6}	89.6 ^{+1.5} _{-1.8}	86.3 ^{+1.1} _{-0.8}	86.9 ^{+1.7} _{-1.0}	86.6 ^{+1.3} _{-0.9}
u_A	0.413 ^{+0.012} _{-0.013}	0.287 ^{+0.031} _{-0.032}	0.104 ^{+0.043} _{-0.040}	0.599 ^{+0.056} _{-0.053}	0.380 ^{+0.018} _{-0.019}
v_A		0.31 perturbed	0.53 perturbed	0.26 perturbed	0.15 perturbed
P	3.548464 ^{+0.000030} _{-0.000030}	3.548462 ^{+0.000028} _{-0.000028}	3.548463 ^{+0.000027} _{-0.000025}	3.548463 ^{+0.000028} _{-0.000029}	3.548463 ^{+0.000028} _{-0.000028}
T_0	955.90125 ^{+0.00019} _{-0.00017}	955.90125 ^{+0.00018} _{-0.00019}	955.90125 ^{+0.00017} _{-0.00018}	955.90125 ^{+0.00019} _{-0.00018}	955.90125 ^{+0.00016} _{-0.00020}
r_A	0.1729 ^{+0.0047} _{-0.0053}	0.1553 ^{+0.0082} _{-0.0023}	0.1664 ^{+0.0053} _{-0.0061}	0.1632 ^{+0.0057} _{-0.0069}	0.1649 ^{+0.0058} _{-0.0062}
r_b	0.01416 ^{+0.00046} _{-0.00052}	0.01231 ^{+0.00081} _{-0.00023}	0.01346 ^{+0.00052} _{-0.00060}	0.01312 ^{+0.00058} _{-0.00067}	0.01331 ^{+0.00057} _{-0.00062}
σ (mmag)	0.1269	0.1250	0.1261	0.1257	0.1260
Fitting for both LD coefficients					
$r_A + r_b$	0.1870 ^{+0.0051} _{-0.0059}	0.1685 ^{+0.0073} _{-0.0016}	0.1688 ^{+0.0148} _{-0.0038}	0.1687 ^{+0.0088} _{-0.0016}	0.1687 ^{+0.0181} _{-0.0049}
k	0.08191 ^{+0.00043} _{-0.00056}	0.07919 ^{+0.00088} _{-0.00044}	0.07860 ^{+0.00107} _{-0.00290}	0.07887 ^{+0.00099} _{-0.00053}	0.07865 ^{+0.00100} _{-0.00390}
i (deg.)	85.33 ^{+0.73} _{-0.58}	89.13 ^{+1.07} _{-1.89}	89.93 ^{+1.43} _{-2.24}	89.38 ^{+0.92} _{-2.18}	89.96 ^{+1.38} _{-2.35}
u_A	0.413 ^{+0.013} _{-0.013}	0.258 ^{+0.043} _{-0.045}	-0.617 ^{+0.386} _{-1.891}	0.832 ^{+0.146} _{-0.135}	0.335 ^{+0.032} _{-0.077}
v_A		0.38 ^{+0.11} _{-0.10}	1.84 ^{+3.42} _{-0.71}	0.55 ^{+0.18} _{-0.17}	0.49 ^{+1.13} _{-0.21}
P	3.548464 ^{+0.000027} _{-0.000028}	3.548462 ^{+0.000028} _{-0.000029}	3.548462 ^{+0.000028} _{-0.000029}	3.548462 ^{+0.000028} _{-0.000029}	3.548462 ^{+0.000027} _{-0.000029}
T_0	955.90125 ^{+0.00019} _{-0.00017}	955.90125 ^{+0.00017} _{-0.00019}	955.90125 ^{+0.00019} _{-0.00018}	955.90125 ^{+0.00018} _{-0.00020}	955.90125 ^{+0.00020} _{-0.00018}
r_A	0.1729 ^{+0.0047} _{-0.0053}	0.1562 ^{+0.0067} _{-0.0015}	0.1565 ^{+0.0142} _{-0.0035}	0.1564 ^{+0.0083} _{-0.0015}	0.1564 ^{+0.0173} _{-0.0043}
r_b	0.01416 ^{+0.00046} _{-0.00052}	0.01237 ^{+0.00068} _{-0.00012}	0.01230 ^{+0.00105} _{-0.00023}	0.01233 ^{+0.00078} _{-0.00009}	0.01230 ^{+0.00108} _{-0.00024}
σ (mmag)	0.1269	0.1249	0.1249	0.1249	0.1249

Table A86. Parameters of the JKTEBOP best fits of the *Kepler* short-cadence light curve of Kepler-5, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 379 phase-binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	$0.1471^{+0.0020}_{-0.0022}$	$0.1459^{+0.0060}_{-0.0032}$	$0.1453^{+0.0068}_{-0.0030}$	$0.1455^{+0.0052}_{-0.0030}$	$0.1665^{+0.0125}_{-0.0034}$
k	$0.08005^{+0.00027}_{-0.00033}$	$0.07815^{+0.00061}_{-0.00021}$	$0.07835^{+0.00035}_{-0.00021}$	$0.07826^{+0.00035}_{-0.00019}$	$0.08022^{+0.00028}_{-0.00022}$
i (deg.)	$86.45^{+0.25}_{-0.20}$	$89.96^{+0.87}_{-1.41}$	$89.37^{+0.56}_{-1.06}$	$89.59^{+0.56}_{-1.13}$	$88.31^{+1.21}_{-0.98}$
u_A	0.56 fixed	0.36 fixed	0.20 fixed	0.69 fixed	0.36 fixed
v_A		0.31 fixed	0.53 fixed	0.26 fixed	0.15 fixed
r_A	$0.1362^{+0.0019}_{-0.0020}$	$0.1353^{+0.0055}_{-0.0030}$	$0.1348^{+0.0062}_{-0.0028}$	$0.1349^{+0.0048}_{-0.0027}$	$0.1541^{+0.0116}_{-0.0031}$
r_B	$0.01091^{+0.00017}_{-0.00018}$	$0.01058^{+0.00050}_{-0.00023}$	$0.01056^{+0.00052}_{-0.00023}$	$0.01056^{+0.00041}_{-0.00023}$	$0.01236^{+0.00095}_{-0.00027}$
σ (mmag)	0.1192	0.1176	0.1162	0.1159	0.1115
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	$0.1574^{+0.0042}_{-0.0029}$	$0.1640^{+0.0092}_{-0.0076}$	$0.1576^{+0.0056}_{-0.0041}$	$0.1608^{+0.0069}_{-0.0059}$	$0.1601^{+0.0055}_{-0.0046}$
k	$0.08033^{+0.00023}_{-0.00024}$	$0.07949^{+0.00059}_{-0.00041}$	$0.07975^{+0.00030}_{-0.00028}$	$0.07944^{+0.00043}_{-0.00035}$	$0.07972^{+0.00036}_{-0.00037}$
i (deg.)	$87.06^{+0.50}_{-0.33}$	$89.95^{+1.01}_{-1.71}$	$87.75^{+1.27}_{-0.54}$	$89.91^{+0.92}_{-1.48}$	$88.22^{+1.52}_{-0.84}$
u_A	$0.458^{+0.014}_{-0.017}$	$0.276^{+0.039}_{-0.043}$	$0.138^{+0.044}_{-0.042}$	$0.615^{+0.046}_{-0.054}$	$0.401^{+0.024}_{-0.023}$
v_A		0.31 perturbed	0.53 perturbed	0.26 perturbed	0.15 perturbed
r_A	$0.1457^{+0.0040}_{-0.0027}$	$0.1519^{+0.0085}_{-0.0071}$	$0.1459^{+0.0052}_{-0.0037}$	$0.1489^{+0.0063}_{-0.0055}$	$0.1483^{+0.0051}_{-0.0042}$
r_B	$0.01170^{+0.00032}_{-0.00024}$	$0.01207^{+0.00077}_{-0.00058}$	$0.01164^{+0.00043}_{-0.00032}$	$0.01183^{+0.00057}_{-0.00045}$	$0.01182^{+0.00043}_{-0.00035}$
σ (mmag)	0.1091	0.1114	0.1094	0.1098	0.1094
Fitting for both LD coefficients					
$r_A + r_B$	$0.1574^{+0.0044}_{-0.0030}$	$0.1566^{+0.0036}_{-0.0031}$	$0.1561^{+0.0045}_{-0.0031}$	$0.1577^{+0.0036}_{-0.0031}$	$0.1561^{+0.0034}_{-0.0032}$
k	$0.08033^{+0.00025}_{-0.00024}$	$0.08032^{+0.00036}_{-0.00040}$	$0.08013^{+0.00044}_{-0.00051}$	$0.08016^{+0.00042}_{-0.00043}$	$0.08035^{+0.00038}_{-0.00055}$
i (deg.)	$87.06^{+0.47}_{-0.33}$	$87.03^{+0.73}_{-0.43}$	$87.19^{+1.00}_{-0.50}$	$87.31^{+1.01}_{-0.56}$	$86.97^{+0.85}_{-0.42}$
u_A	$0.458^{+0.014}_{-0.017}$	$0.459^{+0.056}_{-0.059}$	$0.360^{+0.207}_{-0.234}$	$0.486^{+0.069}_{-0.069}$	$0.465^{+0.034}_{-0.039}$
v_A		$0.003^{+0.088}_{-0.079}$	$0.167^{+0.370}_{-0.336}$	$0.048^{+0.108}_{-0.112}$	$-0.008^{+0.100}_{-0.081}$
r_A	$0.1457^{+0.0040}_{-0.0028}$	$0.1449^{+0.0033}_{-0.0028}$	$0.1445^{+0.0042}_{-0.0028}$	$0.1460^{+0.0034}_{-0.0029}$	$0.1444^{+0.0031}_{-0.0030}$
r_B	$0.01170^{+0.00033}_{-0.00024}$	$0.01164^{+0.00026}_{-0.00025}$	$0.01158^{+0.00032}_{-0.00025}$	$0.01170^{+0.00026}_{-0.00025}$	$0.01161^{+0.00026}_{-0.00027}$
σ (mmag)	0.1091	0.1091	0.1092	0.1091	0.1091

Table A87. Final parameters of the fit to the *Kepler* light curve of Kepler-5 from the JKTEBOP analysis, compared to those found by Koch et al. (2010) and Kipping & Bakos (2011b) (their solution 'A.c') from the same data. Quantities without quoted uncertainties were not given by those authors but have been calculated from other parameters which were.

	This work (LC)	This work (SC, final)	Koch et al. (2010)	Kipping & Bakos (2011b)
$r_A + r_B$	$0.1689^{+0.0176}_{-0.0047}$	$0.15661^{+0.0045}_{-0.0034}$	0.1785	0.1738
k	$0.07883^{+0.00106}_{-0.00038}$	$0.08024^{+0.00045}_{-0.00056}$	$0.08195^{+0.00030}_{-0.00047}$	$0.0798^{+0.0016}_{-0.0011}$
i (°)	$89.6^{+0.4}_{-2.3}$	$87.1^{+1.0}_{-0.6}$	86.3 ± 0.5	$87.6^{+1.7}_{-2.2}$
r_A	$0.1564^{+0.0169}_{-0.0042}$	$0.1445^{+0.0042}_{-0.0033}$	0.1650 ± 0.0038	$0.161^{+0.010}_{-0.005}$
r_B	$0.01233^{+0.00105}_{-0.00023}$	$0.01163^{+0.00032}_{-0.00027}$	0.01352	0.01280

Table A88. Derived physical properties of the Kepler-5 system. The upper part of the table contains the individual results from this work; in each case $g_b = 34.5^{+1.7}_{-1.9} \text{ m s}^{-2}$, $\rho_A = 0.352^{+0.025}_{-0.029} \rho_\odot$ and $T'_{\text{eq}} = 1692^{+29}_{-25} \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	154.15 ^{+3.60} _{-3.51}	151.92 ^{+1.52} _{-1.09}	152.27 ^{+1.35} _{-1.18}	152.28 ^{+0.59} _{-0.18}	151.81 ^{+1.28} _{-1.10}	150.99 ^{+1.57} _{-0.76}
M_A (M _⊙)	1.356 ^{+0.097} _{-0.091}	1.298 ^{+0.039} _{-0.028}	1.307 ^{+0.035} _{-0.030}	1.3072 ^{+0.015} _{-0.040}	1.2953 ^{+0.0328} _{-0.0280}	1.2744 ^{+0.040} _{-0.019}
R_A (R _⊙)	1.567 ^{+0.063} _{-0.054}	1.544 ^{+0.055} _{-0.041}	1.548 ^{+0.054} _{-0.042}	1.548 ^{+0.049} _{-0.037}	1.543 ^{+0.053} _{-0.041}	1.535 ^{+0.053} _{-0.026}
log g_A (cgs)	4.180 ^{+0.021} _{-0.025}	4.174 ^{+0.019} _{-0.023}	4.175 ^{+0.019} _{-0.023}	4.175 ^{+0.020} _{-0.024}	4.174 ^{+0.019} _{-0.023}	4.171 ^{+0.023} _{-0.023}
M_b (M _{Jup})	2.096 ^{+0.102} _{-0.098}	2.036 ^{+0.048} _{-0.038}	2.045 ^{+0.044} _{-0.040}	2.045 ^{+0.030} _{-0.026}	2.033 ^{+0.042} _{-0.039}	2.011 ^{+0.049} _{-0.032}
R_b (R _{Jup})	1.227 ^{+0.044} _{-0.040}	1.209 ^{+0.035} _{-0.029}	1.212 ^{+0.035} _{-0.030}	1.212 ^{+0.034} _{-0.028}	1.208 ^{+0.035} _{-0.029}	1.202 ^{+0.035} _{-0.029}
ρ_b (ρ_{Jup})	1.061 ^{+0.082} _{-0.087}	1.077 ^{+0.080} _{-0.086}	1.074 ^{+0.080} _{-0.086}	1.074 ^{+0.080} _{-0.085}	1.077 ^{+0.080} _{-0.086}	1.083 ^{+0.080} _{-0.086}
Θ	0.1269 ^{+0.0045} _{-0.0047}	0.1288 ^{+0.0036} _{-0.0040}	0.1285 ^{+0.0036} _{-0.0040}	0.1285 ^{+0.0034} _{-0.0038}	0.1289 ^{+0.0036} _{-0.0039}	0.1296 ^{+0.0035} _{-0.0040}
a (AU)	0.050419 ^{+0.00117} _{-0.00115}	0.04969 ^{+0.00050} _{-0.00035}	0.04981 ^{+0.00044} _{-0.00038}	0.049808 ^{+0.00019} _{-0.00049}	0.049655 ^{+0.00042} _{-0.00036}	0.049388 ^{+0.00051} _{-0.00025}
Age (Gyr)		3.0 ^{+0.3} _{-0.5}	2.8 ^{+0.3} _{-0.4}	2.6 ^{+0.0} _{-0.1}	2.5 ^{+0.3} _{-0.3}	3.1 ^{+0.1} _{-0.3}
	This work (final)	Koch et al. (2010)	Kipping & Bakos (2011b)			
M_A (M _⊙)	1.296 ^{+0.040} _{-0.030} ^{+0.011} _{-0.022}	1.374 ^{+0.040} _{-0.059}	1.370 ^{+0.050} _{-0.036}			
R_A (R _⊙)	1.544 ^{+0.055} _{-0.042} ^{+0.004} _{-0.009}	1.793 ^{+0.043} _{-0.062}	1.749 ^{+0.151} _{-0.059}			
log g_A (cgs)	4.174 ^{+0.023} _{-0.024} ^{+0.001} _{-0.002}	4.07 ± 0.02	4.087 ^{+0.023} _{-0.057}			
ρ_A (ρ_\odot)	0.352 ^{+0.025} _{-0.029}	0.236 ± 0.014	0.256 ^{+0.023} _{-0.050}			
M_b (M _{Jup})	2.034 ^{+0.049} _{-0.040} ^{+0.011} _{-0.023}	2.114 ^{+0.056} _{-0.059}	2.05 ^{+0.14} _{-0.14}			
R_b (R _{Jup})	1.209 ^{+0.035} _{-0.030} ^{+0.003} _{-0.007}	1.431 ^{+0.041} _{-0.052}	1.352 ^{+0.149} _{-0.052}			
g_b (m s ⁻¹)	34.5 ^{+1.7} _{-1.9}	25.7 ± 1.8	27.1 ^{+3.0} _{-4.5}			
ρ_b (ρ_{Jup})	1.077 ^{+0.080} _{-0.086} ^{+0.006} _{-0.003}	0.674 ± 0.060	0.76 ^{+0.11} _{-0.19}			
T'_{eq} (K)	1692 ⁺²⁹ ₋₂₅	1868 ± 284	1790 ⁺⁶⁴ ₋₃₃			
Θ	0.1288 ^{+0.0036} _{-0.0040} ^{+0.0007} _{-0.0004}					
a (AU)	0.04967 ^{+0.00051} _{-0.00038} ^{+0.00014} _{-0.00028}	0.05064 ± 0.00070	0.05056 ^{+0.00061} _{-0.00045}			
Age (Gyr)	2.8 ^{+0.3} _{-0.5} ^{+0.3} _{-0.3}	3.0 ± 0.6	2.83 ^{+0.23} _{-0.25}			

Table A89. Parameters of the JKTEBOP best fits of the *Kepler* long-cadence light curve of Kepler-6, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 246 datapoints with a temporal sampling rate of 29.4244 min.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	$0.1493^{+0.0060}_{-0.0038}$	$0.1462^{+0.0047}_{-0.0015}$	$0.1463^{+0.0063}_{-0.0017}$	$0.1457^{+0.0051}_{-0.0014}$	$0.1715^{+0.0033}_{-0.0034}$
k	$0.09426^{+0.00120}_{-0.00077}$	$0.09427^{+0.00073}_{-0.00036}$	$0.09301^{+0.00126}_{-0.00042}$	$0.09355^{+0.00092}_{-0.00041}$	$0.09978^{+0.00040}_{-0.00046}$
i (deg.)	$88.23^{+1.62}_{-1.08}$	$88.98^{+1.02}_{-1.16}$	$89.81^{+1.09}_{-1.42}$	$89.68^{+0.99}_{-1.25}$	$84.94^{+0.33}_{-0.30}$
u_A	0.63 fixed	0.45 fixed	0.40 fixed	0.75 fixed	0.40 fixed
v_A		0.23 fixed	0.42 fixed	0.21 fixed	0.10 fixed
T_0	$954.48638^{+0.00015}_{-0.00015}$	$954.48640^{+0.00014}_{-0.00015}$	$954.48638^{+0.00017}_{-0.00014}$	$954.48639^{+0.00015}_{-0.00015}$	$954.48643^{+0.00015}_{-0.00014}$
r_A	$0.1365^{+0.0053}_{-0.0034}$	$0.1336^{+0.0042}_{-0.0013}$	$0.1339^{+0.0056}_{-0.0015}$	$0.1332^{+0.0046}_{-0.0013}$	$0.1560^{+0.0029}_{-0.0031}$
r_B	$0.01286^{+0.00067}_{-0.00043}$	$0.01260^{+0.00050}_{-0.00016}$	$0.01245^{+0.00069}_{-0.00019}$	$0.01246^{+0.00058}_{-0.00016}$	$0.01556^{+0.00036}_{-0.00036}$
σ (mmag)	0.1627	0.1519	0.1627	0.1531	0.1728
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	$0.1515^{+0.0056}_{-0.0053}$	$0.1452^{+0.0079}_{-0.0022}$	$0.1447^{+0.0060}_{-0.0017}$	$0.1449^{+0.0074}_{-0.0022}$	$0.1445^{+0.0070}_{-0.0018}$
k	$0.09606^{+0.00100}_{-0.00093}$	$0.09390^{+0.00156}_{-0.00074}$	$0.09430^{+0.00098}_{-0.00050}$	$0.09407^{+0.00133}_{-0.00064}$	$0.09435^{+0.00127}_{-0.00060}$
i (deg.)	$87.5^{+1.2}_{-0.8}$	$89.8^{+1.6}_{-1.6}$	$89.7^{+1.4}_{-1.4}$	$89.9^{+1.2}_{-1.5}$	$89.7^{+1.1}_{-1.5}$
u_A	$0.545^{+0.014}_{-0.012}$	$0.463^{+0.026}_{-0.031}$	$0.312^{+0.039}_{-0.042}$	$0.712^{+0.060}_{-0.054}$	$0.532^{+0.016}_{-0.015}$
v_A		0.23 perturbed	0.42 perturbed	0.21 perturbed	0.10 perturbed
T_0	$954.48640^{+0.00013}_{-0.00016}$	$954.48639^{+0.00014}_{-0.00015}$	$954.48640^{+0.00014}_{-0.00014}$	$954.48640^{+0.00014}_{-0.00015}$	$954.48640^{+0.00014}_{-0.00014}$
r_A	$0.1382^{+0.0050}_{-0.0047}$	$0.1328^{+0.0070}_{-0.0020}$	$0.1322^{+0.0053}_{-0.0016}$	$0.1324^{+0.0066}_{-0.0020}$	$0.1321^{+0.0061}_{-0.0016}$
r_B	$0.01327^{+0.00062}_{-0.00058}$	$0.01247^{+0.00089}_{-0.00025}$	$0.01246^{+0.00065}_{-0.00019}$	$0.01246^{+0.00082}_{-0.00025}$	$0.01246^{+0.00078}_{-0.00020}$
σ (mmag)	0.1506	0.1516	0.1505	0.1508	0.1504
Fitting for both LD coefficients					
$r_A + r_B$	$0.1515^{+0.0058}_{-0.0063}$	$0.1536^{+0.0067}_{-0.0071}$	$0.1536^{+0.0072}_{-0.0068}$	$0.1537^{+0.0070}_{-0.0070}$	$0.1539^{+0.0068}_{-0.0067}$
k	$0.0961^{+0.0010}_{-0.0011}$	$0.0967^{+0.0016}_{-0.0015}$	$0.0968^{+0.0019}_{-0.0017}$	$0.0968^{+0.0017}_{-0.0016}$	$0.0969^{+0.0016}_{-0.0017}$
i (deg.)	$87.5^{+1.5}_{-0.9}$	$87.1^{+1.4}_{-0.9}$	$87.1^{+1.4}_{-1.0}$	$87.1^{+1.5}_{-1.0}$	$87.0^{+1.4}_{-0.9}$
u_A	$0.545^{+0.013}_{-0.012}$	$0.585^{+0.090}_{-0.065}$	$0.749^{+0.389}_{-0.334}$	$0.462^{+0.149}_{-0.139}$	$0.563^{+0.042}_{-0.033}$
v_A		$-0.09^{+0.14}_{-0.16}$	$-0.36^{+0.59}_{-0.66}$	$-0.11^{+0.20}_{-0.21}$	$-0.09^{+0.16}_{-0.16}$
T_0	$954.48640^{+0.00015}_{-0.00014}$	$954.48640^{+0.00014}_{-0.00015}$	$954.48640^{+0.00014}_{-0.00014}$	$954.48640^{+0.00013}_{-0.00015}$	$954.48640^{+0.00014}_{-0.00014}$
r_A	$0.1382^{+0.0052}_{-0.0056}$	$0.1400^{+0.0060}_{-0.0062}$	$0.1400^{+0.0063}_{-0.0060}$	$0.1401^{+0.0062}_{-0.0062}$	$0.1403^{+0.0060}_{-0.0059}$
r_B	$0.01327^{+0.00082}_{-0.00068}$	$0.01355^{+0.00079}_{-0.00083}$	$0.01356^{+0.00088}_{-0.00082}$	$0.01357^{+0.00085}_{-0.00083}$	$0.01359^{+0.00079}_{-0.00081}$
σ (mmag)	0.1506	0.1506	0.1506	0.1506	0.1506

Table A90. Parameters of the JKTEBOP best fits of the *Kepler* short-cadence light curve of Kepler-6, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains phase-binned 304 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	$0.14504^{+0.00152}_{-0.00037}$	$0.14489^{+0.00139}_{-0.00045}$	$0.14578^{+0.00168}_{-0.00052}$	$0.14533^{+0.00175}_{-0.00046}$	$0.14977^{+0.00088}_{-0.00080}$
k	$0.09454^{+0.00036}_{-0.00025}$	$0.09511^{+0.00030}_{-0.00023}$	$0.09400^{+0.00039}_{-0.00024}$	$0.09454^{+0.00035}_{-0.00026}$	$0.09815^{+0.00020}_{-0.00023}$
i (deg.)	$89.92^{+0.48}_{-0.69}$	$89.93^{+0.54}_{-0.61}$	$89.97^{+0.57}_{-0.69}$	$89.98^{+0.54}_{-0.75}$	$87.62^{+0.14}_{-0.15}$
u_A	0.63 fixed	0.45 fixed	0.40 fixed	0.75 fixed	0.40 fixed
v_A		0.23 fixed	0.42 fixed	0.21 fixed	0.10 fixed
r_A	$0.13251^{+0.00135}_{-0.00034}$	$0.13230^{+0.00125}_{-0.00040}$	$0.13325^{+0.00152}_{-0.00045}$	$0.13278^{+0.00157}_{-0.00042}$	$0.13639^{+0.00078}_{-0.00071}$
r_b	$0.012528^{+0.000165}_{-0.000053}$	$0.012583^{+0.000139}_{-0.000058}$	$0.012525^{+0.000185}_{-0.000062}$	$0.012553^{+0.000186}_{-0.000061}$	$0.013386^{+0.000090}_{-0.000082}$
σ (mmag)	0.1339	0.0967	0.1380	0.1089	0.1537
χ^2_{red}	2.0210	1.0532	2.1456	1.3362	2.6597
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	$0.1444^{+0.0009}_{-0.0006}$	$0.1447^{+0.0019}_{-0.0006}$	$0.1444^{+0.0014}_{-0.0005}$	$0.1446^{+0.0021}_{-0.0006}$	$0.1443^{+0.0021}_{-0.0006}$
k	$0.09599^{+0.00026}_{-0.00025}$	$0.09528^{+0.00047}_{-0.00034}$	$0.09553^{+0.00034}_{-0.00026}$	$0.09538^{+0.00048}_{-0.00035}$	$0.09559^{+0.00052}_{-0.00034}$
i (deg.)	$89.34^{+0.62}_{-0.41}$	$89.92^{+0.67}_{-0.74}$	$89.94^{+0.57}_{-0.62}$	$89.93^{+0.64}_{-0.79}$	$89.91^{+0.65}_{-0.77}$
u_A	$0.541^{+0.005}_{-0.005}$	$0.439^{+0.030}_{-0.033}$	$0.301^{+0.037}_{-0.039}$	$0.696^{+0.046}_{-0.054}$	$0.521^{+0.014}_{-0.017}$
v_A		0.23 perturbed	0.42 perturbed	0.21 perturbed	0.10 perturbed
r_A	$0.1317^{+0.0008}_{-0.0005}$	$0.1321^{+0.0017}_{-0.0005}$	$0.1318^{+0.0012}_{-0.0004}$	$0.1320^{+0.0019}_{-0.0005}$	$0.1317^{+0.0019}_{-0.0005}$
r_b	$0.01264^{+0.00010}_{-0.00007}$	$0.01259^{+0.00022}_{-0.00007}$	$0.01259^{+0.00015}_{-0.00006}$	$0.01259^{+0.00023}_{-0.00007}$	$0.01259^{+0.00022}_{-0.00007}$
σ (mmag)	0.0957	0.0960	0.0937	0.0940	0.0937
χ^2_{red}	1.0358	1.0425	0.9926	0.9977	0.9933
Fitting for both LD coefficients					
$r_A + r_b$	$0.1444^{+0.0010}_{-0.0005}$	$0.1443^{+0.0023}_{-0.0005}$	$0.1443^{+0.0016}_{-0.0005}$	$0.1443^{+0.0026}_{-0.0006}$	$0.1444^{+0.0058}_{-0.0007}$
k	$0.09599^{+0.00027}_{-0.00024}$	$0.09562^{+0.00039}_{-0.00035}$	$0.09556^{+0.00041}_{-0.00036}$	$0.09557^{+0.00041}_{-0.00037}$	$0.09551^{+0.00044}_{-0.00058}$
i (deg.)	$89.34^{+0.57}_{-0.47}$	$89.90^{+0.52}_{-0.69}$	$89.91^{+0.60}_{-0.69}$	$89.95^{+0.58}_{-0.80}$	$89.93^{+0.57}_{-0.76}$
u_A	$0.541^{+0.005}_{-0.005}$	$0.493^{+0.018}_{-0.020}$	$0.318^{+0.101}_{-0.113}$	$0.643^{+0.043}_{-0.045}$	$0.516^{+0.012}_{-0.018}$
v_A		$0.108^{+0.043}_{-0.041}$	$0.391^{+0.200}_{-0.173}$	$0.139^{+0.060}_{-0.059}$	$0.127^{+0.077}_{-0.053}$
r_A	$0.1317^{+0.0009}_{-0.0004}$	$0.1317^{+0.0020}_{-0.0005}$	$0.1317^{+0.0014}_{-0.0005}$	$0.1317^{+0.0023}_{-0.0005}$	$0.1318^{+0.0051}_{-0.0006}$
r_b	$0.01264^{+0.00011}_{-0.00006}$	$0.01259^{+0.00017}_{-0.00006}$	$0.01259^{+0.00018}_{-0.00006}$	$0.01259^{+0.00022}_{-0.00006}$	$0.01259^{+0.00020}_{-0.00007}$
σ (mmag)	0.0957	0.0937	0.0938	0.0937	0.0936
χ^2_{red}	1.0358	0.9958	0.9969	0.9953	0.9944

Table A91. Final parameters of the fit to the *Kepler* light curve of Kepler-6 from the JKTEBOP analysis, compared to those found by Dunham et al. (2010) and Kipping & Bakos (2011b) (their solution ‘A.c’) from the same data. Quantities without quoted uncertainties were not given by those authors but have been calculated from other parameters which were.

	This work (LC)	This work (SC)	This work (final)	Dunham et al. (2010)	Kipping & Bakos (2011b)
$r_A + r_b$	$0.1448^{+0.0080}_{-0.0023}$	$0.1445^{+0.0022}_{-0.0006}$	$0.1446^{+0.0020}_{-0.0006}$	0.1557	0.1496
k	$0.09415^{+0.00160}_{-0.00077}$	$0.09544^{+0.00054}_{-0.00037}$	$0.09538^{+0.00046}_{-0.00036}$	$0.09829^{+0.00014}_{-0.00050}$	$0.0955^{+0.0024}_{-0.0015}$
i (°)	$89.8^{+0.2}_{-1.6}$	$89.9^{+0.1}_{-0.8}$	$89.9^{+0.1}_{-0.7}$	86.8 ± 0.3	$87.9^{+1.4}_{-1.7}$
r_A	$0.1324^{+0.0072}_{-0.0020}$	$0.1319^{+0.0019}_{-0.0006}$	$0.1321^{+0.0017}_{-0.0006}$	$0.1418^{+0.0012}_{-0.0022}$	$0.1366^{+0.0084}_{-0.0042}$
r_b	$0.01246^{+0.00091}_{-0.00026}$	$0.01259^{+0.00023}_{-0.00007}$	$0.01259^{+0.00022}_{-0.00007}$	0.01394	0.01305

 * Some of the values for k in Table 6 Kipping & Bakos (2011b) are misprints: they appear to be quantities for Kepler-4, not Kepler-6.

Table A92. Derived physical properties of the Kepler-6 system. The upper part of the table contains the individual results from this work; in each case $g_b = 11.48^{+0.39}_{-0.54} \text{ m s}^{-2}$, $\rho_A = 0.556^{+0.008}_{-0.021} \rho_\odot$ and $T'_{\text{eq}} = 1451^{+15}_{-13} \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	156.05 ^{+3.52} _{-3.44}	148.59 ^{+0.18} _{-0.39}	149.48 ^{+0.87} _{-0.97}	151.86 ^{+6.09} _{-2.72}	147.40 ^{+1.57} _{-0.36}	148.51 ^{+1.00} _{-0.12}
M_A (M _⊙)	1.275 ^{+0.088} _{-0.083}	1.101 ^{+0.004} _{-0.009}	1.121 ^{+0.020} _{-0.022}	1.175 ^{+0.146} _{-0.092}	1.075 ^{+0.035} _{-0.008}	1.099 ^{+0.022} _{-0.003}
R_A (R _⊙)	1.319 ^{+0.035} _{-0.030}	1.256 ^{+0.017} _{-0.007}	1.264 ^{+0.020} _{-0.011}	1.284 ^{+0.057} _{-0.024}	1.246 ^{+0.029} _{-0.007}	1.255 ^{+0.020} _{-0.007}
log g_A (cgs)	4.3033 ^{+0.0103} _{-0.0142}	4.2821 ^{+0.0039} _{-0.0108}	4.2847 ^{+0.0043} _{-0.0106}	4.2915 ^{+0.0171} _{-0.0108}	4.2786 ^{+0.0037} _{-0.0066}	4.2818 ^{+0.0046} _{-0.0103}
M_b (M _{Jup})	0.693 ^{+0.039} _{-0.038}	0.628 ^{+0.020} _{-0.020}	0.635 ^{+0.022} _{-0.022}	0.656 ^{+0.057} _{-0.031}	0.618 ^{+0.024} _{-0.020}	0.627 ^{+0.022} _{-0.020}
R_b (R _{Jup})	1.223 ^{+0.035} _{-0.028}	1.165 ^{+0.020} _{-0.007}	1.172 ^{+0.022} _{-0.010}	1.190 ^{+0.052} _{-0.022}	1.155 ^{+0.024} _{-0.007}	1.164 ^{+0.022} _{-0.007}
ρ_b (ρ_{Jup})	0.354 ^{+0.015} _{-0.023}	0.372 ^{+0.014} _{-0.022}	0.369 ^{+0.014} _{-0.022}	0.364 ^{+0.015} _{-0.026}	0.375 ^{+0.014} _{-0.023}	0.372 ^{+0.013} _{-0.022}
Θ	0.0412 ^{+0.0016} _{-0.0018}	0.0432 ^{+0.0014} _{-0.0016}	0.0430 ^{+0.0014} _{-0.0016}	0.0423 ^{+0.0016} _{-0.0022}	0.0436 ^{+0.0014} _{-0.0017}	0.0433 ^{+0.0014} _{-0.0016}
a (AU)	0.04643 ^{+0.00105} _{-0.00102}	0.04421 ^{+0.00005} _{-0.00012}	0.04448 ^{+0.00026} _{-0.00029}	0.04518 ^{+0.00181} _{-0.00081}	0.04386 ^{+0.00047} _{-0.00011}	0.04419 ^{+0.00030} _{-0.00003}
Age (Gyr)		6.0 ^{+0.0} _{-0.1}	5.2 ^{+0.8} _{-0.7}	5.2 ^{+0.8} _{-2.3}	6.0 ^{+0.0} _{-0.7}	6.0 ^{+0.0} _{-0.8}
	This work (final)	Dunham et al. (2010)	Kipping & Bakos (2011b)			
M_A (M _⊙)	1.114 ^{+0.146} _{-0.062} ^{+0.061} _{-0.040}	1.209 ^{+0.044} _{-0.038}	1.127 ^{+0.045} _{-0.065}			
R_A (R _⊙)	1.261 ^{+0.057} _{-0.024} ^{+0.023} _{-0.015}	1.391 ^{+0.017} _{-0.034}	1.306 ^{+0.102} _{-0.046}			
log g_A (cgs)	4.284 ^{+0.017} _{-0.011} ^{+0.008} _{-0.005}	4.236 ± 0.011	4.254 ^{+0.026} _{-0.056}			
ρ_A (ρ_\odot)	0.5555 ^{+0.0076} _{-0.0209}		0.504 ^{+0.048} _{-0.093}			
M_b (M _{Jup})	0.633 ^{+0.057} _{-0.031} ^{+0.023} _{-0.015}	0.669 ^{+0.025} _{-0.030}	0.617 ^{+0.052} _{-0.051}			
R_b (R _{Jup})	1.169 ^{+0.052} _{-0.022} ^{+0.021} _{-0.014}	1.323 ^{+0.026} _{-0.029}	1.208 ^{+0.129} _{-0.049}			
g_b (ms ⁻¹)	11.48 ^{+0.39} _{-0.54}	9.42 ^{+0.35} _{-0.47}	10.2 ^{+1.3} _{-1.7}			
ρ_b (ρ_{Jup})	0.370 ^{+0.015} _{-0.026} ^{+0.004} _{-0.007}	0.265 ^{+0.14} _{-0.17}	0.321 ^{+0.052} _{-0.079}			
T'_{eq} (K)	1451 ⁺¹⁵ ₋₁₃	1500 ± 200	1480 ⁺⁵¹ ₋₃₃			
Θ	0.0431 ^{+0.0016} _{-0.0022} ^{+0.0005} _{-0.0008}					
a (AU)	0.04438 ^{+0.00181} _{-0.00081} ^{+0.00080} _{-0.00053}	0.04567 ^{+0.00055} _{-0.00046}	0.04452 ^{+0.00058} _{-0.00088}			
Age (Gyr)	5.7 ^{+0.8} _{-2.3} ^{+0.3} _{-0.5}	3.8 ± 1.0	5.65 ^{+2.68} _{-0.86}			

Table A93. Parameters of the JKTEBOP best fits of the *Kepler* light curve of Kepler-7, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 341 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.1609 ± 0.0024	0.1548 ± 0.0021	0.1568 ± 0.0024	0.1539 ± 0.0024	0.1715 ± 0.0016
k	0.08339 ± 0.00038	0.08249 ± 0.00029	0.08274 ± 0.00034	0.08227 ± 0.00035	0.08518 ± 0.00023
i (deg.)	85.47 ± 0.24	86.11 ± 0.23	85.90 ± 0.26	86.24 ± 0.28	84.33 ± 0.14
u_A	0.59 fixed	0.36 fixed	0.23 fixed	0.71 fixed	0.36 fixed
v_A		0.28 fixed	0.53 fixed	0.26 fixed	0.14 fixed
P	4.8854946 ± 0.0000086	4.8854950 ± 0.0000078	4.8854951 ± 0.0000086	4.8854950 ± 0.0000079	4.8854947 ± 0.0000082
T_0	967.27596 ± 0.00012	967.27597 ± 0.00011	967.27596 ± 0.00012	967.27597 ± 0.00011	967.27599 ± 0.00011
r_A	0.1485 ± 0.0022	0.1430 ± 0.0019	0.1448 ± 0.0022	0.1422 ± 0.0022	0.1580 ± 0.0014
r_b	0.01239 ± 0.00023	0.01179 ± 0.00019	0.01198 ± 0.00022	0.01170 ± 0.00022	0.01346 ± 0.00015
σ (mmag)	0.1287	0.1189	0.1213	0.1203	0.1231
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.1654 ± 0.0020	0.1605 ± 0.0030	0.1629 ± 0.0021	0.1616 ± 0.0024	0.1626 ± 0.0026
k	0.08469 ± 0.00030	0.08340 ± 0.00048	0.08394 ± 0.00032	0.08362 ± 0.00041	0.08392 ± 0.00050
i (deg.)	84.90 ± 0.19	85.45 ± 0.31	85.20 ± 0.21	85.34 ± 0.25	85.22 ± 0.27
u_A	0.488 ± 0.008	0.324 ± 0.035	0.168 ± 0.040	0.654 ± 0.045	0.444 ± 0.020
v_A		0.28 perturbed	0.53 perturbed	0.26 perturbed	0.14 perturbed
P	4.8854947 ± 0.0000080	4.8854948 ± 0.0000077	4.8854948 ± 0.0000082	4.8854947 ± 0.0000084	4.8854948 ± 0.0000081
T_0	967.27598 ± 0.00011	967.27598 ± 0.00011	967.27598 ± 0.00011	967.27598 ± 0.00011	967.27598 ± 0.00011
r_A	0.1525 ± 0.0018	0.1482 ± 0.0027	0.1503 ± 0.0019	0.1491 ± 0.0022	0.1500 ± 0.0023
r_b	0.01291 ± 0.00019	0.01236 ± 0.00028	0.01261 ± 0.00020	0.01247 ± 0.00024	0.01259 ± 0.00026
σ (mmag)	0.1184	0.1182	0.1182	0.1182	0.1182
Fitting for both LD coefficients					
$r_A + r_b$	0.1654 ± 0.0020	0.1623 ± 0.0030	0.1615 ± 0.0034	0.1619 ± 0.0032	0.1616 ± 0.0035
k	0.08469 ± 0.00030	0.08384 ± 0.00061	0.08354 ± 0.00082	0.08370 ± 0.00068	0.08367 ± 0.00075
i (deg.)	84.90 ± 0.19	85.25 ± 0.32	85.36 ± 0.39	85.31 ± 0.35	85.33 ± 0.39
u_A	0.488 ± 0.008	0.373 ± 0.064	0.012 ± 0.298	0.641 ± 0.094	0.433 ± 0.030
v_A		0.19 ± 0.11	0.79 ± 0.50	0.24 ± 0.14	0.18 ± 0.11
P	4.8854947 ± 0.0000078	4.8854948 ± 0.0000080	4.8854948 ± 0.0000086	4.8854947 ± 0.0000076	4.8854947 ± 0.0000081
T_0	967.27598 ± 0.00012	967.27598 ± 0.00011	967.27598 ± 0.00012	967.27598 ± 0.00011	967.27598 ± 0.00011
r_A	0.1525 ± 0.0018	0.1497 ± 0.0027	0.1490 ± 0.0030	0.1494 ± 0.0029	0.1492 ± 0.0032
r_b	0.01291 ± 0.00019	0.01255 ± 0.00031	0.01245 ± 0.00037	0.01250 ± 0.00033	0.01248 ± 0.00037
σ (mmag)	0.1184	0.1182	0.1182	0.1182	0.1182

Table A94. Final parameters of the fit to the *Kepler* light curve of Kepler-7 from the JKTEBOP analysis, compared to those found by Latham et al. (2010) and Kipping & Bakos (2011b) (their solution ‘A.c’) from the same data. Quantities without quoted uncertainties were not given by those authors but have been calculated from other parameters which were.

	This work	Latham et al. (2010)	Kipping & Bakos (2011b)
$r_A + r_b$	0.1619 ± 0.0039	0.1499	0.1514
k	0.0837 ± 0.0009	$0.08241^{+0.00032}_{-0.00044}$	$0.0813^{+0.0023}_{-0.0021}$
i (°)	85.31 ± 0.43	86.5 ± 0.4	$86.5^{+2.0}_{-1.4}$
r_A	0.1494 ± 0.0035	$0.1385^{+0.0025}_{-0.0031}$	$0.1401^{+0.0097}_{-0.0119}$
r_b	0.01250 ± 0.00041	0.01141	0.01138

Table A95. Derived physical properties of the Kepler-7 system. The upper part of the table contains the individual results from this work; in each case $g_b = 4.10 \pm 0.43 \text{ m s}^{-2}$, $\rho_A = 0.168 \pm 0.012 \rho_\odot$ and $T'_{\text{eq}} = 1621 \pm 23 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	141.29 ± 3.17	136.45 ± 0.43	136.45 ± 0.62	136.18 ± 3.86	135.80 ± 0.70	134.68 ± 1.86
M_A (M _⊙)	1.443 ± 0.097	1.300 ± 0.011	1.300 ± 0.016	1.292 ± 0.115	1.281 ± 0.020	1.250 ± 0.052
R_A (R _⊙)	2.046 ± 0.071	1.976 ± 0.048	1.976 ± 0.051	1.972 ± 0.081	1.967 ± 0.053	1.951 ± 0.053
log g_A (cgs)	3.976 ± 0.021	3.960 ± 0.020	3.960 ± 0.020	3.960 ± 0.024	3.958 ± 0.019	3.955 ± 0.021
M_b (M _{Jup})	0.459 ± 0.043	0.428 ± 0.035	0.428 ± 0.035	0.426 ± 0.046	0.424 ± 0.035	0.417 ± 0.036
R_b (R _{Jup})	1.666 ± 0.066	1.609 ± 0.053	1.609 ± 0.054	1.606 ± 0.075	1.601 ± 0.053	1.588 ± 0.057
ρ_b (ρ _{Jup})	0.093 ± 0.012	0.096 ± 0.012	0.096 ± 0.012	0.096 ± 0.013	0.097 ± 0.012	0.097 ± 0.013
Θ	0.0243 ± 0.0022	0.0252 ± 0.0022	0.0252 ± 0.0022	0.0252 ± 0.0024	0.0253 ± 0.0022	0.0255 ± 0.0023
a (AU)	0.06368 ± 0.00143	0.06150 ± 0.00018	0.06150 ± 0.00026	0.06138 ± 0.00174	0.06121 ± 0.00031	0.06070 ± 0.00084
Age (Gyr)		4.4 ^{+0.2} _{-0.0}	4.2 ^{+0.1} _{-0.0}	4.1 ^{+0.0} _{-1.6}	4.0 ^{+0.1} _{-0.4}	5.1 ^{+0.4} _{-0.6}
	This work (final)	Latham et al. (2010)	Kipping & Bakos (2011b)			
M_A (M _⊙)	1.28 ± 0.11 ± 0.03	1.347 ^{+0.072} _{-0.054}	1.257 ^{+0.087} _{-0.073}			
R_A (R _⊙)	1.969 ± 0.081 ± 0.018	1.843 ^{+0.048} _{-0.066}	1.83 ^{+0.17} _{-0.14}			
log g_A (cgs)	3.959 ± 0.024 ± 0.004	4.030 ^{+0.018} _{-0.019}	4.012 ^{+0.061} _{-0.063}			
ρ_A (ρ _⊙)	0.168 ± 0.012		0.197 ^{+0.052} _{-0.043}			
M_b (M _{Jup})	0.425 ± 0.046 ± 0.008	0.433 ^{+0.040} _{-0.041}	0.42 ^{+0.11} _{-0.11}			
R_b (R _{Jup})	1.602 ± 0.075 ± 0.014	1.478 ^{+0.050} _{-0.051}	1.45 ^{+0.18} _{-0.15}			
g_b (m s ⁻¹)	4.10 ± 0.43	4.91 ^{+0.45} _{-0.44}	4.9 ^{+1.7} _{-1.4}			
ρ_b (ρ _{Jup})	0.097 ± 0.013 ± 0.001	0.125 ^{+0.014} _{-0.015}	0.126 ^{+0.056} _{-0.042}			
T'_{eq} (K)	1621 ± 23	1540 ± 200	1569 ⁺⁶⁵ ₋₅₈			
Θ	0.0253 ± 0.0024 ± 0.0002					
a (AU)	0.0613 ± 0.0017 ± 0.0006	0.06224 ^{+0.00109} _{-0.00084}	0.0608 ^{+0.0014} _{-0.0012}			
Age (Gyr)	4.4 ^{+0.4} _{-1.6} ^{+0.7} _{-0.4}	3.5 ± 1.0	4.82 ^{+0.82} _{-1.20}			

Table A96. Parameters of the JKTEBOP best fits of the *Kepler* light curve of Kepler-8, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as BJD – 2454000.0. The light curve contains 264 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.1591 ± 0.0074	0.1572 ± 0.0065	0.1582 ± 0.0071	0.1565 ± 0.0072	0.1697 ± 0.0053
k	0.09525 ± 0.00126	0.09398 ± 0.00101	0.09452 ± 0.00111	0.09407 ± 0.00116	0.09568 ± 0.00070
i (deg.)	84.09 ± 0.55	84.24 ± 0.50	84.17 ± 0.53	84.31 ± 0.55	83.22 ± 0.37
u_A	0.57 fixed	0.32 fixed	0.22 fixed	0.69 fixed	0.32 fixed
v_A		0.30 fixed	0.52 fixed	0.25 fixed	0.15 fixed
P	3.522477 ± 0.000052	3.522477 ± 0.000053	3.522478 ± 0.000050	3.522477 ± 0.000053	3.522477 ± 0.000050
T_0	954.11860 ± 0.00036	954.11860 ± 0.00037	954.11860 ± 0.00036	954.11860 ± 0.00037	954.11861 ± 0.00037
r_A	0.1452 ± 0.0066	0.1437 ± 0.0058	0.1445 ± 0.0064	0.1431 ± 0.0065	0.1549 ± 0.0048
r_B	0.01383 ± 0.00078	0.01350 ± 0.00069	0.01366 ± 0.00076	0.01346 ± 0.00076	0.01482 ± 0.00055
σ (mmag)	0.3463	0.3437	0.3446	0.3447	0.3402
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.1741 ± 0.0062	0.1739 ± 0.0067	0.1739 ± 0.0069	0.1738 ± 0.0068	0.1739 ± 0.0067
k	0.09638 ± 0.00067	0.09533 ± 0.00068	0.09578 ± 0.00068	0.09557 ± 0.00067	0.09572 ± 0.00073
i (deg.)	82.86 ± 0.45	82.89 ± 0.50	82.89 ± 0.50	82.90 ± 0.50	82.89 ± 0.51
u_A	0.33 ± 0.10	0.08 ± 0.13	-0.02 ± 0.11	0.44 ± 0.11	0.24 ± 0.11
v_A		0.30 perturbed	0.52 perturbed	0.25 perturbed	0.15 perturbed
P	3.522476 ± 0.000052	3.522476 ± 0.000055	3.522476 ± 0.000048	3.522476 ± 0.000050	3.522476 ± 0.000052
T_0	954.11862 ± 0.00037	954.11862 ± 0.00037	954.11862 ± 0.00036	954.11862 ± 0.00037	954.11862 ± 0.00036
r_A	0.1588 ± 0.0056	0.1588 ± 0.0062	0.1587 ± 0.0063	0.1587 ± 0.0061	0.1587 ± 0.0062
r_B	0.01531 ± 0.00058	0.01514 ± 0.00060	0.01520 ± 0.00062	0.01516 ± 0.00061	0.01519 ± 0.00061
σ (mmag)	0.3398	0.3398	0.3398	0.3398	0.3398
Fitting for both LD coefficients					
$r_A + r_B$	0.1741 ± 0.0065	0.1742 ± 0.0055	0.1750 ± 0.0053	0.1745 ± 0.0057	0.1746 ± 0.0057
k	0.0964 ± 0.0007	0.1000 ± 0.0096	0.1014 ± 0.0088	0.0992 ± 0.0097	0.0991 ± 0.0092
i (deg.)	82.86 ± 0.47	82.82 ± 0.41	82.71 ± 0.36	82.79 ± 0.40	82.78 ± 0.41
u_A	0.33 ± 0.08	1.04 ± 1.52	2.56 ± 3.26	0.06 ± 0.86	0.67 ± 0.93
v_A		-0.8 ± 1.8	-3.2 ± 4.7	-0.7 ± 2.1	-0.5 ± 1.6
P	3.522476 ± 0.000052	3.522476 ± 0.000053	3.522478 ± 0.000053	3.522476 ± 0.000054	3.522476 ± 0.000051
T_0	954.11862 ± 0.00037	954.11861 ± 0.00035	954.11860 ± 0.00038	954.11861 ± 0.00038	954.11861 ± 0.00036
r_A	0.1588 ± 0.0059	0.1584 ± 0.0053	0.1589 ± 0.0051	0.1587 ± 0.0057	0.1589 ± 0.0056
r_B	0.0153 ± 0.0006	0.0158 ± 0.0015	0.0161 ± 0.0012	0.0157 ± 0.0013	0.0157 ± 0.0014
σ (mmag)	0.3398	0.3396	0.3395	0.3396	0.3396

Table A97. Parameters of the JKTEBOP best fits of the *Kepler* short-cadence light curve of Kepler-8, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 298 phase-binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.1551 ± 0.0016	0.1553 ± 0.0015	0.1552 ± 0.0016	0.1546 ± 0.0016	0.1622 ± 0.0013
k	0.09542 ± 0.00043	0.09451 ± 0.00041	0.09488 ± 0.00040	0.09459 ± 0.00043	0.09559 ± 0.00038
i (deg.)	84.369 ± 0.124	84.360 ± 0.111	84.372 ± 0.120	84.429 ± 0.118	83.742 ± 0.097
u_A	0.57 fixed	0.32 fixed	0.22 fixed	0.69 fixed	0.32 fixed
v_A		0.30 fixed	0.52 fixed	0.25 fixed	0.15 fixed
r_A	0.1416 ± 0.0015	0.1419 ± 0.0013	0.1418 ± 0.0014	0.1413 ± 0.0014	0.1481 ± 0.0012
r_b	0.01351 ± 0.00017	0.01341 ± 0.00016	0.01345 ± 0.00016	0.01336 ± 0.00017	0.01416 ± 0.00014
σ (mmag)	0.1718	0.1690	0.1697	0.1698	0.1771
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.1574 ± 0.0016	0.1566 ± 0.0018	0.1569 ± 0.0016	0.1567 ± 0.0017	0.1568 ± 0.0018
k	0.09582 ± 0.00043	0.09471 ± 0.00046	0.09517 ± 0.00041	0.09495 ± 0.00047	0.09511 ± 0.00049
i (deg.)	84.15 ± 0.13	84.25 ± 0.14	84.22 ± 0.13	84.24 ± 0.13	84.23 ± 0.14
u_A	0.514 ± 0.019	0.295 ± 0.052	0.184 ± 0.045	0.646 ± 0.040	0.447 ± 0.035
v_A		0.30 perturbed	0.52 perturbed	0.25 perturbed	0.15 perturbed
r_A	0.1437 ± 0.0015	0.1431 ± 0.0016	0.1433 ± 0.0015	0.1432 ± 0.0015	0.1432 ± 0.0016
r_b	0.01376 ± 0.00018	0.01355 ± 0.00019	0.01364 ± 0.00017	0.01359 ± 0.00018	0.01362 ± 0.00019
σ (mmag)	0.1692	0.1686	0.1688	0.1687	0.1687
Fitting for both LD coefficients					
$r_A + r_b$	0.1574 ± 0.0017	0.1557 ± 0.0021	0.1560 ± 0.0019	0.1558 ± 0.0020	0.1556 ± 0.0020
k	0.0958 ± 0.0004	0.0939 ± 0.0011	0.0940 ± 0.0013	0.0940 ± 0.0012	0.0940 ± 0.0011
i (deg.)	84.15 ± 0.13	84.34 ± 0.18	84.35 ± 0.18	84.35 ± 0.19	84.36 ± 0.18
u_A	0.514 ± 0.020	0.133 ± 0.212	-0.439 ± 0.688	0.808 ± 0.199	0.355 ± 0.094
v_A		0.53 ± 0.31	1.52 ± 1.11	0.54 ± 0.35	0.38 ± 0.24
r_A	0.1437 ± 0.0015	0.1423 ± 0.0018	0.1426 ± 0.0017	0.1424 ± 0.0018	0.1423 ± 0.0017
r_b	0.01376 ± 0.00017	0.01336 ± 0.00027	0.01339 ± 0.00027	0.01338 ± 0.00028	0.01338 ± 0.00026
σ (mmag)	0.1692	0.1685	0.1685	0.1685	0.1685

Table A98. Final parameters of the fit to the *Kepler* light curves of Kepler-8 from the JKTEBOP analysis, compared to those found by Jenkins et al. (2010) and Kipping & Bakos (2011b) (their solution 'A.c') from the same data. Quantities without quoted uncertainties were not given by those authors but have been calculated from other parameters which were.

	This work (LC)	This work (SC, final)	Jenkins et al. (2010)	Kipping & Bakos (2011b)
$r_A + r_b$	0.1739 ± 0.0076	0.1568 ± 0.0020	0.1576	0.1532
k	0.09559 ± 0.00080	0.09499 ± 0.00054	$0.08241^{+0.00032}_{-0.00044}$	$0.0942^{+0.0047}_{-0.0058}$
i ($^\circ$)	82.89 ± 0.56	84.23 ± 0.16	84.07 ± 0.33	$84.5^{+2.8}_{-1.6}$
r_A	0.1587 ± 0.0069	0.1432 ± 0.0018	$0.1435^{+0.0048}_{-0.0042}$	$0.140^{+0.014}_{-0.039}$
r_b	0.01517 ± 0.00068	0.01360 ± 0.00021	0.01408	0.01319

Table A99. Derived physical properties of the Kepler-8 system. The upper part of the table contains the individual results from this work; in each case $g_b = 7.7 \pm 1.4 \text{ m s}^{-2}$, $\rho_A = 0.368 \pm 0.014 \rho_\odot$ and $T'_{\text{eq}} = 1662 \pm 41 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	150.87 ± 3.60	149.17 ± 2.59	149.31 ± 1.71	152.40 ± 0.36	149.14 ± 3.18	148.49 ± 3.62
M_A (M _⊙)	1.2738 ± 0.0913	1.2312 ± 0.0638	1.2346 ± 0.0426	1.3129 ± 0.0091	1.2305 ± 0.0776	1.2146 ± 0.0719
R_A (R _⊙)	1.513 ± 0.042	1.496 ± 0.035	1.497 ± 0.027	1.528 ± 0.022	1.496 ± 0.032	1.489 ± 0.037
log g_A (cgs)	4.184 ± 0.015	4.179 ± 0.012	4.179 ± 0.011	4.188 ± 0.010	4.179 ± 0.016	4.177 ± 0.022
M_b (M _{Jup})	0.60 ± 0.11	0.59 ± 0.11	0.59 ± 0.10	0.62 ± 0.11	0.59 ± 0.11	0.59 ± 0.12
R_b (R _{Jup})	1.398 ± 0.040	1.382 ± 0.032	1.383 ± 0.027	1.412 ± 0.022	1.382 ± 0.037	1.376 ± 0.037
ρ_b (ρ _{Jup})	0.207 ± 0.038	0.209 ± 0.038	0.209 ± 0.038	0.205 ± 0.037	0.209 ± 0.038	0.210 ± 0.040
Θ	0.0333 ± 0.0059	0.0337 ± 0.0060	0.0337 ± 0.0060	0.0330 ± 0.0058	0.0337 ± 0.0060	0.0339 ± 0.0063
a (AU)	0.04912 ± 0.00117	0.04857 ± 0.00084	0.04861 ± 0.00056	0.04962 ± 0.00012	0.04856 ± 0.00103	0.04835 ± 0.00115
Age (Gyr)		3.8 ^{+1.5} _{-0.8}	3.4 ^{+0.5} _{-0.6}	2.1 ^{+0.0} _{-0.0}	3.2 ^{+1.8} _{-0.7}	3.5 ^{+0.0} _{-3.1}
	This work (final)	Jenkins et al. (2010)	Kipping & Bakos (2011b)			
M_A (M _⊙)	1.230 ± 0.072 ± 0.010	1.213 ^{+0.067} _{-0.063}	1.214 ^{+0.092} _{-0.087}			
R_A (R _⊙)	1.495 ± 0.037 ± 0.005	1.486 ^{+0.053} _{-0.062}	1.46 ^{+0.21} _{-0.26}			
log g_A (cgs)	4.178 ± 0.022 ± 0.002	4.174 ± 0.026	4.192 ^{+0.149} _{-0.094}			
ρ_A (ρ _⊙)	0.368 ± 0.014		0.40 ^{+0.32} _{-0.12}			
M_b (M _{Jup})	0.59 ± 0.12 ± 0.00	0.603 ^{+0.13} _{-0.19}	0.58 ^{+0.32} _{-0.31}			
R_b (R _{Jup})	1.381 ± 0.037 ± 0.005	1.419 ^{+0.056} _{-0.058}	1.35 ^{+0.26} _{-0.31}			
g_b (m s ⁻¹)	7.7 ± 1.4	7.430 ± 2.06	8.1 ^{+7.0} _{-4.6}			
ρ_b (ρ _{Jup})	0.210 ± 0.040 ± 0.001	0.197 ± 0.054	0.21 ^{+0.27} _{-0.13}			
T'_{eq} (K)	1662 ± 41	1764 ± 200	1645 ⁺¹⁰⁸ ₋₁₄₆			
Θ	0.0337 ± 0.0063 ± 0.0001					
a (AU)	0.0485 ± 0.0012 ± 0.0002	0.0483 ^{+0.0006} _{-0.0012}	0.0483 ^{+0.0012} _{-0.0012}			
Age (Gyr)	3.2 ^{+1.8} _{-3.1} ^{+0.6} _{-1.1}	3.84 ± 1.5	3.23 ^{+1.37} _{-0.88}			

Table A100. Parameters of the JKTEBOP best fits of the *Kepler* light curve of KOI-428, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as BJD – 2455000.0. The light curve contains 184 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.145 ± 0.013	0.157 ± 0.011	0.144 ± 0.013	0.143 ± 0.012	0.149 ± 0.011
k	0.05824 ± 0.00136	0.05913 ± 0.00079	0.05808 ± 0.00118	0.05797 ± 0.00105	0.05925 ± 0.00064
i (deg.)	86.5 ± 1.9	85.2 ± 1.0	86.6 ± 2.1	86.7 ± 1.9	85.8 ± 1.2
u_A	0.54 fixed	0.28 fixed	0.19 fixed	0.67 fixed	0.28 fixed
v_A		0.32 fixed	0.53 fixed	0.26 fixed	0.16 fixed
P	6.873131 ± 0.000079	6.873125 ± 0.000076	6.873131 ± 0.000074	6.873130 ± 0.000078	6.873123 ± 0.000073
T_0	5.51861 ± 0.00050	5.51857 ± 0.00052	5.51860 ± 0.00050	5.51860 ± 0.00050	5.51852 ± 0.00049
r_A	0.1366 ± 0.0125	0.1484 ± 0.0099	0.1359 ± 0.0125	0.1353 ± 0.0114	0.1409 ± 0.0101
r_b	0.00795 ± 0.00091	0.00878 ± 0.00069	0.00789 ± 0.00090	0.00784 ± 0.00080	0.00835 ± 0.00067
σ (mmag)	0.3003	0.2998	0.2994	0.2993	0.3011
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.147 ± 0.013	0.140 ± 0.013	0.144 ± 0.014	0.143 ± 0.013	0.130 ± 0.011
k	0.05895 ± 0.00101	0.05794 ± 0.00107	0.05842 ± 0.00111	0.05829 ± 0.00107	0.05713 ± 0.00089
i (deg.)	86.1 ± 1.6	87.1 ± 2.1	86.5 ± 2.0	86.6 ± 2.0	89.7 ± 2.0
u_A	0.453 ± 0.034	0.272 ± 0.053	0.132 ± 0.052	0.617 ± 0.060	0.412 ± 0.038
v_A		0.32 perturbed	0.53 perturbed	0.26 perturbed	0.16 perturbed
P	6.873128 ± 0.000074	6.873130 ± 0.000075	6.873128 ± 0.000075	6.873127 ± 0.000072	6.873132 ± 0.000073
T_0	5.51856 ± 0.00052	5.51858 ± 0.00050	5.51857 ± 0.00049	5.51858 ± 0.00049	5.51861 ± 0.00049
r_A	0.139 ± 0.012	0.133 ± 0.012	0.136 ± 0.013	0.136 ± 0.012	0.123 ± 0.010
r_b	0.00820 ± 0.00083	0.00769 ± 0.00085	0.00795 ± 0.00092	0.00790 ± 0.00086	0.00701 ± 0.00070
σ (mmag)	0.2989	0.2989	0.2988	0.2988	0.2986
Fitting for both LD coefficients					
$r_A + r_b$	0.147 ± 0.013	0.154 ± 0.014	0.155 ± 0.013	0.155 ± 0.013	0.147 ± 0.014
k	0.0590 ± 0.0010	0.0527 ± 0.0010	0.0541 ± 0.0011	0.0536 ± 0.0012	0.0588 ± 0.0015
i (deg.)	86.1 ± 1.6	86.9 ± 2.0	86.4 ± 1.6	86.6 ± 1.8	86.2 ± 1.9
u_A	0.45 ± 0.03	-0.46 ± 0.61	-3.44 ± 0.62	2.43 ± 0.21	0.43 ± 0.10
v_A		2.40 ± 0.76	6.92 ± 0.90	2.56 ± 0.48	0.06 ± 0.30
P	6.873128 ± 0.000074	6.873116 ± 0.000080	6.873123 ± 0.000074	6.873124 ± 0.000076	6.873129 ± 0.000077
T_0	5.51856 ± 0.00051	5.51882 ± 0.00053	5.51880 ± 0.00048	5.51879 ± 0.00045	5.51856 ± 0.00052
r_A	0.139 ± 0.012	0.146 ± 0.013	0.147 ± 0.012	0.147 ± 0.013	0.139 ± 0.013
r_b	0.00820 ± 0.00085	0.00770 ± 0.00085	0.00794 ± 0.00080	0.00786 ± 0.00084	0.00815 ± 0.00097
σ (mmag)	0.2989	0.3014	0.2986	0.2994	0.2989

Table A101. Final parameters of the fit to the *Kepler* light curve of KOI-428 from the JKTEBOP analysis, compared to those found by Santerne et al. (2011) from the same data. Quantities without quoted uncertainties were not given by Santerne et al. (2011) but have been calculated from other parameters which were.

	This work	Santerne et al. (2011)
$r_A + r_b$	0.138 ± 0.015	0.1303
k	0.0579 ± 0.0012	0.0565 ± 0.0004
i ($^\circ$)	87.5 ± 2.3	$89.7^{+0.3}_{-0.1}$
r_A	0.131 ± 0.014	0.1233 ± 0.0009
r_b	0.0076 ± 0.0010	0.00697

Table A102. Derived physical properties of the KOI-428 system. The upper part of the table contains the individual results from this work; in each case $g_b = 32 \pm 10 \text{ m s}^{-2}$, $\rho_A = 0.126 \pm 0.042 \rho_\odot$ and $T'_{\text{eq}} = 1666 \pm 92 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	132.4 ± 4.4	124.9 ± 2.7	125.1 ± 3.2	125.0 ± 2.0	125.1 ± 3.5	127.9 ± 3.5
M_A (M _⊙)	1.661 ± 0.166	1.397 ± 0.092	1.401 ± 0.109	1.401 ± 0.065	1.401 ± 0.120	1.500 ± 0.124
R_A (R _⊙)	2.36 ± 0.30	2.23 ± 0.25	2.23 ± 0.25	2.23 ± 0.25	2.23 ± 0.25	2.28 ± 0.22
log g_A (cgs)	3.912 ± 0.088	3.887 ± 0.093	3.887 ± 0.093	3.887 ± 0.092	3.887 ± 0.093	3.897 ± 0.099
M_b (M _{Jup})	2.35 ± 0.39	2.10 ± 0.33	2.10 ± 0.34	2.10 ± 0.33	2.10 ± 0.34	2.20 ± 0.35
R_b (R _{Jup})	1.33 ± 0.18	1.26 ± 0.17	1.26 ± 0.17	1.26 ± 0.17	1.26 ± 0.17	1.29 ± 0.17
ρ_b (ρ_{Jup})	0.93 ± 0.42	0.98 ± 0.44	0.98 ± 0.44	0.98 ± 0.44	0.98 ± 0.44	0.96 ± 0.43
Θ	0.178 ± 0.036	0.188 ± 0.038	0.188 ± 0.038	0.188 ± 0.038	0.188 ± 0.038	0.184 ± 0.038
a (AU)	0.0838 ± 0.0028	0.0791 ± 0.0017	0.0792 ± 0.0020	0.0792 ± 0.0012	0.0792 ± 0.0022	0.0810 ± 0.0022
Age (Gyr)		2.2 ^{+0.6} _{-0.6}	2.2 ^{+0.5} _{-0.5}	1.9 ^{+0.3} _{-0.2}	2.1 ^{+0.4} _{-0.5}	2.2 ^{+0.4} _{-0.3}
	This work (final)	Santerne et al. (2011)				
M_A (M _⊙)	1.42 ± 0.12 ± 0.08	1.48 ± 0.06				
R_A (R _⊙)	2.24 ± 0.25 ± 0.04	2.13 ± 0.06				
log g_A (cgs)	3.889 ± 0.099 ± 0.008	3.94 ± 0.32				
ρ_A (ρ_\odot)	0.126 ± 0.042	0.151 ± 0.004				
M_b (M _{Jup})	2.12 ± 0.35 ± 0.08	2.2 ± 0.4				
R_b (R _{Jup})	1.27 ± 0.17 ± 0.02	1.17 ± 0.04				
g_b (m s ⁻¹)	32 ± 10					
ρ_b (ρ_{Jup})	0.98 ± 0.44 ± 0.02	1.27 ^{+0.40} _{-0.32}				
T'_{eq} (K)	1666 ± 92	1620 ± 30				
Θ	0.188 ± 0.038 ± 0.003					
a (AU)	0.0795 ± 0.0022 ± 0.0015	0.080 ± 0.003				
Age (Gyr)	2.1 ^{+0.6} _{-0.6} ^{+0.1} _{-0.3}	2.8 ± 0.3				

Table A103. Parameters of the JKTEBOP best fits of the *Kepler* light curve of LHS 6343, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as BJD – 2454000.0. The light curve contains 99 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.02577 ± 0.00087	0.02515 ± 0.00083	0.02523 ± 0.00076	0.02543 ± 0.00080	0.02691 ± 0.00084
k	0.2066 ± 0.0076	0.2190 ± 0.0103	0.2015 ± 0.0076	0.2179 ± 0.0108	0.2145 ± 0.0118
i (deg.)	89.943 ± 0.181	89.971 ± 0.175	89.756 ± 0.147	89.742 ± 0.133	89.450 ± 0.091
u_A	0.67 fixed	0.38 fixed	0.20 fixed	0.70 fixed	0.35 fixed
v_A		0.35 fixed	0.64 fixed	0.27 fixed	0.15 fixed
P	12.7138102 ± 0.0000080	12.7138120 ± 0.0000072	12.7138121 ± 0.0000071	12.7138122 ± 0.0000074	12.7138116 ± 0.0000067
T_0	995.358004 ± 0.000042	995.357996 ± 0.000043	995.357998 ± 0.000040	995.357999 ± 0.000041	995.358010 ± 0.000042
r_A	0.02135 ± 0.00081	0.02063 ± 0.00080	0.02100 ± 0.00070	0.02088 ± 0.00076	0.02216 ± 0.00085
r_b	0.00441 ± 0.00015	0.00452 ± 0.00019	0.00423 ± 0.00015	0.00455 ± 0.00017	0.00475 ± 0.00017
σ (mmag)	0.3510	0.2615	0.2847	0.2640	0.2465
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.02814 ± 0.00094	0.02774 ± 0.00087	0.02791 ± 0.00091	0.02750 ± 0.00088	0.02787 ± 0.00092
k	0.209 ± 0.012	0.211 ± 0.011	0.210 ± 0.012	0.218 ± 0.012	0.210 ± 0.012
i (deg.)	89.298 ± 0.090	89.367 ± 0.090	89.334 ± 0.090	89.394 ± 0.088	89.336 ± 0.091
u_A	0.316 ± 0.026	0.154 ± 0.046	-0.053 ± 0.047	0.513 ± 0.058	0.285 ± 0.031
v_A		0.35 perturbed	0.64 perturbed	0.27 perturbed	0.15 perturbed
P	12.7138107 ± 0.0000069	12.7138107 ± 0.0000073	12.7138106 ± 0.0000070	12.7138107 ± 0.0000069	12.7138106 ± 0.0000073
T_0	995.358017 ± 0.000040	995.358014 ± 0.000044	995.358015 ± 0.000042	995.358012 ± 0.000041	995.358015 ± 0.000040
r_A	0.02328 ± 0.00092	0.02291 ± 0.00088	0.02307 ± 0.00089	0.02258 ± 0.00084	0.02303 ± 0.00091
r_b	0.00486 ± 0.00018	0.00483 ± 0.00017	0.00484 ± 0.00018	0.00492 ± 0.00018	0.00484 ± 0.00019
σ (mmag)	0.2446	0.2438	0.2443	0.2443	0.2443
Fitting for both LD coefficients					
$r_A + r_b$	0.02814 ± 0.00095	0.02714 ± 0.00098	0.02783 ± 0.00095	0.02763 ± 0.00096	0.02986 ± 0.00126
k	0.209 ± 0.012	0.207 ± 0.012	0.210 ± 0.013	0.205 ± 0.013	0.195 ± 0.010
i (deg.)	89.298 ± 0.090	89.512 ± 0.120	89.359 ± 0.101	89.455 ± 0.109	89.354 ± 0.096
u_A	0.32 ± 0.03	-0.07 ± 0.19	-0.42 ± 1.27	1.39 ± 0.68	0.09 ± 0.10
v_A		1.09 ± 0.63	1.29 ± 2.27	1.35 ± 0.83	2.09 ± 0.34
P	12.7138107 ± 0.0000067	12.7138104 ± 0.0000072	12.7138106 ± 0.0000073	12.7138105 ± 0.0000066	12.7138104 ± 0.0000071
T_0	995.358017 ± 0.000041	995.358009 ± 0.000043	995.358014 ± 0.000042	995.358010 ± 0.000042	995.358014 ± 0.000042
r_A	0.02328 ± 0.00093	0.02249 ± 0.00095	0.02300 ± 0.00095	0.02293 ± 0.00092	0.02499 ± 0.00115
r_b	0.00486 ± 0.00018	0.00465 ± 0.00021	0.00483 ± 0.00021	0.00469 ± 0.00021	0.00487 ± 0.00021
σ (mmag)	0.2446	0.2426	0.2439	0.2429	0.2424

Table A104. Final parameters of the fit to the *Kepler* light curve of LHS 6343 from the JKTEBOP analysis, compared to those found by Johnson et al. (2011) from the same data. Quantities without quoted uncertainties were not given by Johnson et al. (2011) but have been calculated from other parameters which were.

	This work	Johnson et al. (2011)
$r_A + r_b$	0.02877 ± 0.00097	0.0271
k	0.2123 ± 0.0131	0.226 ± 0.003
i ($^\circ$)	89.358 ± 0.097	89.50 ± 0.05
r_A	0.02288 ± 0.00097	0.0221 ± 0.0003
r_b	0.00486 ± 0.00020	0.00499

Table A105. Derived physical properties of the LHS 6343 system. The upper part of the table contains the individual results from this work; in each case $g_b = 2320 \pm 210 \text{ m s}^{-2}$, $\rho_A = 6.01 \pm 0.77 \rho_\odot$ and $T'_{\text{eq}} = 352 \pm 22 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	63.4 ± 2.3	63.0 ± 2.6	63.5 ± 1.7	63.9 ± 1.4	63.1 ± 1.6	62.6 ± 1.5
M_A (M _⊙)	0.443 ± 0.044	0.436 ± 0.049	0.446 ± 0.032	0.452 ± 0.027	0.438 ± 0.031	0.428 ± 0.028
R_A (R _⊙)	0.419 ± 0.024	0.417 ± 0.030	0.420 ± 0.023	0.422 ± 0.026	0.418 ± 0.027	0.415 ± 0.026
log g_A (cgs)	4.840 ± 0.038	4.837 ± 0.030	4.841 ± 0.035	4.843 ± 0.028	4.838 ± 0.026	4.834 ± 0.027
M_b (M _{Jup})	70.2 ± 5.1	69.6 ± 5.6	70.5 ± 4.0	71.2 ± 3.7	69.8 ± 4.0	68.7 ± 3.8
R_b (R _{Jup})	0.866 ± 0.045	0.862 ± 0.048	0.868 ± 0.041	0.872 ± 0.040	0.863 ± 0.040	0.857 ± 0.040
ρ_b (ρ _{Jup})	101 ± 13	101 ± 13	100 ± 13	100 ± 12	101 ± 13	102 ± 13
Θ	31.2 ± 2.0	31.3 ± 2.2	31.1 ± 1.8	30.9 ± 1.8	31.3 ± 1.8	31.6 ± 1.8
a (AU)	0.0852 ± 0.0027	0.0848 ± 0.0031	0.0853 ± 0.0019	0.0857 ± 0.0016	0.0849 ± 0.0019	0.0843 ± 0.0018
Age (Gyr)		1.0 ^{+0.0} _{-0.0}	1.0 ^{+0.7} _{-0.0}	6.0 ^{+0.0} _{-0.0}	6.0 ^{+0.0} _{-0.0}	6.0 ^{+0.0} _{-0.0}
	This work (final)	Johnson et al. (2011)				
M_A (M _⊙)	0.440 ± 0.049 ± 0.012	0.370 ± 0.009				
R_A (R _⊙)	0.418 ± 0.030 ± 0.004	0.378 ± 0.008				
log g_A (cgs)	4.839 ± 0.035 ± 0.004	4.851 ± 0.008				
ρ_A (ρ _⊙)	6.01 ± 0.76 ± 0.01	6.6 ± 0.5				
M_b (M _{Jup})	69.9 ± 5.6 ± 1.2	62.7 ± 2.4				
R_b (R _{Jup})	0.864 ± 0.048 ± 0.007	0.833 ± 0.021				
g_b (m s ⁻²)	2320 ± 210	2240 ± 100				
ρ_b (ρ _{Jup})	101 ± 13 ± 0	82 ± 6				
T'_{eq} (K)	352 ± 22					
Θ	31.2 ± 2.2 ± 0.3					
a (AU)	0.0850 ± 0.0031 ± 0.0007	0.804 ± 0.0006				
Age (Gyr)	4.0 ^{+0.7} _{-0.0} ^{+2.0} _{-3.0}	> 1–2				

Table A106. Parameters of the JKTEBOP best fits of the *Kepler* light curve of TrES-2, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 645 phased and binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.14066 ± 0.00013	0.14126 ± 0.00012	0.14131 ± 0.00012	0.14129 ± 0.00013	0.14290 ± 0.00012
k	0.12850 ± 0.00012	0.12716 ± 0.00013	0.12750 ± 0.00013	0.12732 ± 0.00014	0.12610 ± 0.00013
i (deg.)	83.9975 ± 0.0078	83.9686 ± 0.0077	83.9613 ± 0.0078	83.9682 ± 0.0082	83.7987 ± 0.0075
u_A	0.60 fixed	0.38 fixed	0.25 fixed	0.70 fixed	0.37 fixed
v_A		0.27 fixed	0.50 fixed	0.24 fixed	0.13 fixed
r_A	0.12464 ± 0.00011	0.12533 ± 0.00011	0.12533 ± 0.00011	0.12533 ± 0.00012	0.12690 ± 0.00011
r_b	0.016017 ± 0.000018	0.015936 ± 0.000019	0.015980 ± 0.000019	0.015956 ± 0.000020	0.016002 ± 0.000018
σ (mmag)	0.0497	0.0502	0.0498	0.0500	0.0521
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.14085 ± 0.00021	0.14180 ± 0.00030	0.14156 ± 0.00023	0.14174 ± 0.00030	0.14152 ± 0.00038
k	0.12837 ± 0.00017	0.12679 ± 0.00040	0.12732 ± 0.00022	0.12700 ± 0.00038	0.12735 ± 0.00053
i (deg.)	83.978 ± 0.019	83.914 ± 0.025	83.935 ± 0.020	83.921 ± 0.024	83.935 ± 0.028
u_A	0.585 ± 0.013	0.335 ± 0.065	0.229 ± 0.049	0.662 ± 0.025	0.488 ± 0.053
v_A		0.27 perturbed	0.50 perturbed	0.24 perturbed	0.13 perturbed
r_A	0.12483 ± 0.00020	0.12585 ± 0.00031	0.12557 ± 0.00022	0.12577 ± 0.00031	0.12553 ± 0.00040
r_b	0.016024 ± 0.000021	0.015956 ± 0.000023	0.015988 ± 0.000019	0.015973 ± 0.000023	0.015987 ± 0.000025
σ (mmag)	0.0496	0.0496	0.0496	0.0496	0.0496
Fitting for both LD coefficients					
$r_A + r_b$	0.14085 ± 0.00020	0.14097 ± 0.00089	0.14114 ± 0.00070	0.14037 ± 0.00104	0.14056 ± 0.00101
k	0.12837 ± 0.00018	0.12817 ± 0.00139	0.12794 ± 0.00096	0.12911 ± 0.00148	0.12881 ± 0.00146
i (deg.)	83.978 ± 0.017	83.970 ± 0.063	83.961 ± 0.047	84.009 ± 0.068	83.997 ± 0.067
u_A	0.585 ± 0.012	0.557 ± 0.207	0.444 ± 0.317	0.547 ± 0.074	0.627 ± 0.133
v_A		0.03 ± 0.22	0.20 ± 0.44	-0.12 ± 0.24	-0.06 ± 0.17
r_A	0.12483 ± 0.00019	0.12495 ± 0.00095	0.12513 ± 0.00073	0.12432 ± 0.00108	0.12452 ± 0.00105
r_b	0.016024 ± 0.000019	0.016016 ± 0.000059	0.016009 ± 0.000036	0.016051 ± 0.000055	0.016040 ± 0.000053
σ (mmag)	0.0496	0.0496	0.0496	0.0496	0.0496

Table A107. Parameters of the JKTEBOP best fits of the TrES-2 790.2 nm light curve from Colón et al. (2010), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD - 2454000.0. The light curve contains 53 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.1405 ± 0.0023	0.1410 ± 0.0024	0.1414 ± 0.0025	0.1412 ± 0.0025	0.1431 ± 0.0023
k	0.1316 ± 0.0011	0.1302 ± 0.0011	0.1304 ± 0.0011	0.1304 ± 0.0011	0.1292 ± 0.0010
i (deg.)	84.00 ± 0.14	83.99 ± 0.14	83.95 ± 0.15	83.97 ± 0.15	83.79 ± 0.13
u_A	0.50 fixed	0.26 fixed	0.09 fixed	0.60 fixed	0.25 fixed
v_A		0.31 fixed	0.57 fixed	0.25 fixed	0.15 fixed
T_0	955.730 ± 0.013	955.754 ± 0.016	955.737 ± 0.015	955.737 ± 0.014	955.761 ± 0.014
r_A	0.1242 ± 0.0019	0.1247 ± 0.0021	0.1251 ± 0.0022	0.1249 ± 0.0022	0.1268 ± 0.0019
r_b	0.01634 ± 0.00037	0.01624 ± 0.00038	0.01631 ± 0.00038	0.01629 ± 0.00039	0.01637 ± 0.00034
σ (mmag)	0.4439	0.4456	0.4440	0.4448	0.4409
χ^2_{red}	0.9974	1.0052	0.9980	1.0014	0.9837
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.1538 ± 0.0087	0.1659 ± 0.0082	0.1658 ± 0.0087	0.1658 ± 0.0093	0.1653 ± 0.0094
k	0.1150 ± 0.0101	0.1020 ± 0.0090	0.1023 ± 0.0098	0.1022 ± 0.0098	0.1027 ± 0.0102
i (deg.)	82.88 ± 0.66	81.99 ± 0.59	82.00 ± 0.62	82.00 ± 0.66	82.03 ± 0.68
u_A	-1 ± 3	-10 ± 36	-9 ± 33	-9 ± 37	-8 ± 34
v_A		0.31 perturbed	0.57 perturbed	0.25 perturbed	0.15 perturbed
T_0	955.750 ± 0.029	955.706 ± 0.028	955.706 ± 0.027	955.706 ± 0.028	955.708 ± 0.031
r_A	0.1379 ± 0.0091	0.1505 ± 0.0085	0.1504 ± 0.0090	0.1504 ± 0.0094	0.1499 ± 0.0097
r_b	0.01586 ± 0.00062	0.01536 ± 0.00073	0.01538 ± 0.00072	0.01537 ± 0.00074	0.01539 ± 0.00074
σ (mmag)	0.4061	0.4002	0.4003	0.4003	0.4003
χ^2_{red}	0.8478	0.8228	0.8229	0.8229	0.8233

Table A108. Parameters of the JKTEBOP best fits of the TrES-2 794.4 nm light curve from Colón et al. (2010), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 53 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.1434 ± 0.0025	0.1438 ± 0.0026	0.1440 ± 0.0028	0.1440 ± 0.0026	0.1449 ± 0.0025
k	0.1308 ± 0.0011	0.1295 ± 0.0011	0.1296 ± 0.0012	0.1296 ± 0.0011	0.1281 ± 0.0010
i (deg.)	83.86 ± 0.15	83.85 ± 0.15	83.82 ± 0.17	83.83 ± 0.15	83.71 ± 0.15
u_A	0.50 fixed	0.26 fixed	0.09 fixed	0.60 fixed	0.25 fixed
v_A		0.31 fixed	0.57 fixed	0.25 fixed	0.15 fixed
T_0	955.754 ± 0.014	955.758 ± 0.013	955.744 ± 0.013	955.755 ± 0.013	955.757 ± 0.015
r_A	0.1268 ± 0.0022	0.1273 ± 0.0022	0.1275 ± 0.0024	0.1274 ± 0.0022	0.1285 ± 0.0021
r_b	0.01658 ± 0.00038	0.01648 ± 0.00038	0.01653 ± 0.00043	0.01652 ± 0.00040	0.01646 ± 0.00037
σ (mmag)	0.4545	0.4549	0.4539	0.4543	0.4509
χ^2_{red}	0.9862	0.9874	0.9833	0.9851	0.9703
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.1450 ± 0.0042	0.1453 ± 0.0043	0.1449 ± 0.0041	0.1451 ± 0.0041	0.1449 ± 0.0041
k	0.1280 ± 0.0044	0.1276 ± 0.0041	0.1282 ± 0.0041	0.1279 ± 0.0042	0.1282 ± 0.0039
i (deg.)	83.68 ± 0.37	83.69 ± 0.37	83.72 ± 0.38	83.70 ± 0.36	83.72 ± 0.37
u_A	0.28 ± 0.40	0.07 ± 0.42	-0.04 ± 0.41	0.44 ± 0.40	0.26 ± 0.38
v_A		0.31 perturbed	0.57 perturbed	0.25 perturbed	0.15 perturbed
T_0	955.749 ± 0.012	955.762 ± 0.014	955.762 ± 0.014	955.762 ± 0.014	955.762 ± 0.014
r_A	0.1285 ± 0.0042	0.1288 ± 0.0041	0.1285 ± 0.0040	0.1287 ± 0.0040	0.1284 ± 0.0039
r_b	0.01645 ± 0.00044	0.01643 ± 0.00046	0.01647 ± 0.00047	0.01646 ± 0.00044	0.01646 ± 0.00044
σ (mmag)	0.4486	0.4509	0.4511	0.4509	0.4511
χ^2_{red}	0.9815	0.9915	0.9923	0.9915	0.9925

Table A109. Parameters of the JKTEBOP best fits of the TrES-2 light curve from Rabus et al. (2009), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. The light curve contains 53 phase-binned datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.1447 ± 0.0058	0.1449 ± 0.0060	0.1444 ± 0.0059	0.1438 ± 0.0059	0.1436 ± 0.0063
k	0.13204 ± 0.00093	0.12941 ± 0.00088	0.13140 ± 0.00105	0.13154 ± 0.00103	0.12860 ± 0.00089
i (deg.)	83.77 ± 0.27	83.69 ± 0.27	83.82 ± 0.28	83.86 ± 0.28	83.70 ± 0.30
u_A	0.49 fixed	0.15 fixed	0.10 fixed	0.66 fixed	0.20 fixed
v_A		0.25 fixed	0.64 fixed	0.25 fixed	0.10 fixed
T_0	-0.000162 ± 0.000064	-0.000159 ± 0.000062	-0.000165 ± 0.000059	-0.000166 ± 0.000066	-0.000156 ± 0.000065
r_A	0.1279 ± 0.0051	0.1283 ± 0.0053	0.1276 ± 0.0052	0.1271 ± 0.0052	0.1272 ± 0.0056
r_b	0.01688 ± 0.00070	0.01660 ± 0.00071	0.01677 ± 0.00074	0.01672 ± 0.00074	0.01636 ± 0.00077
σ (mmag)	0.7552	0.7549	0.7548	0.7550	0.7551
χ^2_{red}	0.9993	1.0003	0.9999	1.0002	1.0023
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.1390 ± 0.0064	0.1400 ± 0.0075	0.1436 ± 0.0074	0.1589 ± 0.0087	0.1516 ± 0.0080
k	0.1319 ± 0.0034	0.1294 ± 0.0039	0.1308 ± 0.0034	0.1302 ± 0.0036	0.1310 ± 0.0039
i (deg.)	84.02 ± 0.41	83.90 ± 0.44	83.81 ± 0.48	83.12 ± 0.51	83.45 ± 0.48
u_A	0.48 ± 0.32	0.15 ± 0.40	0.03 ± 0.37	0.53 ± 0.38	0.39 ± 0.36
v_A		0.25 perturbed	0.64 perturbed	0.25 perturbed	0.10 perturbed
T_0	-0.000163 ± 0.000065	-0.000159 ± 0.000060	-0.000163 ± 0.000066	-0.000162 ± 0.000067	-0.000161 ± 0.000066
r_A	0.1228 ± 0.0057	0.1240 ± 0.0067	0.1270 ± 0.0066	0.1406 ± 0.0079	0.1340 ± 0.0072
r_b	0.01620 ± 0.00082	0.01605 ± 0.00091	0.01660 ± 0.00089	0.01830 ± 0.00100	0.01755 ± 0.00101
σ (mmag)	0.7551	0.7549	0.7551	0.7551	0.7550
χ^2_{red}	1.0044	1.0053	1.0047	1.0049	1.0047

Table A110. Parameters of the JKTEBOP best fits of the EPOCH light curve of TrES-2, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as BJD(UTC) – 2454000.0. The light curve contains 3517 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.1398 ± 0.0018	0.1403 ± 0.0021	0.1404 ± 0.0018	0.1404 ± 0.0018	0.1420 ± 0.0018
k	0.12877 ± 0.00085	0.12739 ± 0.00090	0.12775 ± 0.00084	0.12755 ± 0.00086	0.12639 ± 0.00077
i (deg.)	84.02 ± 0.11	84.00 ± 0.12	83.99 ± 0.11	84.00 ± 0.11	83.83 ± 0.10
u_A	0.60 fixed	0.38 fixed	0.25 fixed	0.70 fixed	0.37 fixed
v_A		0.27 fixed	0.50 fixed	0.24 fixed	0.13 fixed
T_0	661.75983 ± 0.00012	661.75983 ± 0.00013	661.75983 ± 0.00013	661.75983 ± 0.00012	661.75983 ± 0.00012
r_A	0.1239 ± 0.0016	0.1245 ± 0.0018	0.1245 ± 0.0015	0.1245 ± 0.0016	0.1260 ± 0.0015
r_b	0.01595 ± 0.00029	0.01586 ± 0.00033	0.01591 ± 0.00028	0.01588 ± 0.00029	0.01593 ± 0.00025
σ (mmag)	2.0147	2.0148	2.0147	2.0148	2.0140
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.1465 ± 0.0041	0.1468 ± 0.0041	0.1466 ± 0.0040	0.1467 ± 0.0041	0.1473 ± 0.0045
k	0.1190 ± 0.0059	0.1185 ± 0.0055	0.1190 ± 0.0056	0.1187 ± 0.0059	0.1177 ± 0.0062
i (deg.)	83.39 ± 0.34	83.38 ± 0.33	83.40 ± 0.33	83.38 ± 0.34	83.33 ± 0.36
u_A	-0.20 ± 0.60	-0.43 ± 0.58	-0.51 ± 0.58	-0.10 ± 0.61	-0.38 ± 0.75
v_A		0.27 perturbed	0.50 perturbed	0.24 perturbed	0.13 perturbed
T_0	661.75982 ± 0.00013	661.75982 ± 0.00012	661.75982 ± 0.00012	661.75982 ± 0.00012	661.75982 ± 0.00013
r_A	0.1310 ± 0.0042	0.1312 ± 0.0041	0.1310 ± 0.0042	0.1312 ± 0.0042	0.1318 ± 0.0047
r_b	0.01558 ± 0.00034	0.01555 ± 0.00036	0.01559 ± 0.00033	0.01556 ± 0.00035	0.01551 ± 0.00035
σ (mmag)	2.0131	2.0131	2.0131	2.0131	2.0132
Fitting for both LD coefficients					
$r_A + r_b$	0.1465 ± 0.0041	0.1453 ± 0.0043	0.1465 ± 0.0045	0.1440 ± 0.0058	0.1431 ± 0.0048
k	0.1190 ± 0.0058	0.1215 ± 0.0068	0.1192 ± 0.0061	0.1232 ± 0.0095	0.1249 ± 0.0081
i (deg.)	83.39 ± 0.35	83.46 ± 0.33	83.38 ± 0.36	83.55 ± 0.41	83.62 ± 0.35
u_A	-0.20 ± 0.60	0.44 ± 1.04	0.32 ± 1.81	-0.30 ± 0.55	0.52 ± 0.78
v_A		-0.61 ± 1.14	-0.79 ± 2.59	-0.79 ± 1.67	-0.67 ± 0.93
T_0	661.75982 ± 0.00012	661.75982 ± 0.00012	661.75982 ± 0.00012	661.75982 ± 0.00012	661.75982 ± 0.00012
r_A	0.1310 ± 0.0044	0.1296 ± 0.0045	0.1309 ± 0.0046	0.1282 ± 0.0063	0.1272 ± 0.0051
r_b	0.01558 ± 0.00036	0.01575 ± 0.00051	0.01560 ± 0.00042	0.01579 ± 0.00058	0.01589 ± 0.00052
σ (mmag)	2.0131	2.0132	2.0132	2.0131	2.0131

Table A111. Final parameters of the fits to the light curves of TrES-2 from the JKTEBOP analysis, compared to those found by other authors. Quantities without quoted uncertainties were not given by other authors but have been calculated from those parameters which were. Note that the earlier works did not account for the presence of the close faint stars discovered by Daemgen et al. (2009).

	This work (<i>Kepler</i>)	This work (790.2 nm)	This work (794.4 nm)	This work (Rabus)	This work (EPOCH)	This work (final)
$r_A + r_b$	0.14165 ± 0.00041	0.1417 ± 0.0034	0.1451 ± 0.0047	0.1476 ± 0.0095	0.1408 ± 0.0026	0.14167 ± 0.00040
k	0.12718 ± 0.00055	0.1300 ± 0.0013	0.1278 ± 0.0047	0.1304 ± 0.0054	0.1272 ± 0.0012	0.12760 ± 0.00046
i ($^\circ$)	83.927 ± 0.031	83.92 ± 0.22	83.71 ± 0.44	83.59 ± 0.56	83.95 ± 0.16	83.925 ± 0.030
r_A	0.12566 ± 0.00042	0.1254 ± 0.0029	0.1286 ± 0.0045	0.1305 ± 0.0086	0.1249 ± 0.0023	0.12568 ± 0.00041
r_b	0.015977 ± 0.000027	0.01631 ± 0.00051	0.01646 ± 0.00052	0.0170 ± 0.0011	0.01590 ± 0.00040	0.015979 ± 0.000027
	O'Donovan et al. (2006)	Holman et al. (2007)	TWH08	Paper I	Winn et al. (2008)	Daemgen et al. (2009)
$r_A + r_b$	0.1429	0.1475	0.1476	0.1460 ± 0.0042		0.1474
k	0.1273	0.1253 ± 0.0010	0.1253 ± 0.0010	0.1268 ± 0.0032	0.1253 ± 0.0012	0.1279 ± 0.0010
i ($^\circ$)	83.90 ± 0.22	83.57 ± 0.14	83.57 ± 0.14	83.71 ± 0.42		83.62 ± 0.14
r_A	0.1267	0.1311 ± 0.0021	0.1312 ± 0.0019	0.1296 ± 0.0038		0.1307 ± 0.0020
r_b	0.01614	0.0164 ± 0.0004	0.01644	0.01643 ± 0.00046		0.01672
	Rabus et al. (2009)	Scuderi et al. (2010)	Paper III	Colon+10mn	Kipping & Bakos (2011a)	Christiansen et al. (2011)
$r_A + r_b$	0.1462		0.1448 ± 0.0038		0.1379	0.1388
k	0.1260		0.1293 ± 0.0029	$0.1249^{+0.0048}_{-0.0007}$	$0.12582^{+0.00093}_{-0.00124}$	0.1278 ± 0.0094
i ($^\circ$)	83.70	83.92 ± 0.05	83.80 ± 0.36		$84.21^{+0.21}_{-0.22}$	84.15 ± 0.16
r_A	0.1298		0.1282 ± 0.0035		0.1225 ± 0.0022	0.1230 ± 0.0179
r_b	0.01635		0.01658 ± 0.00043		0.01541	0.01572

Table A112. Derived physical properties of the TrES-2 system. The upper part of the table contains the individual results from this work; in each case $g_b = 21.02 \pm 0.31 \text{ m s}^{-2}$, $\rho_A = 1.105 \pm 0.011 \rho_\odot$ and $T'_{\text{eq}} = 1466 \pm 12 \text{ K}$. The lower parts of the table contain the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	155.8 ± 3.9	157.3 ± 2.7	156.4 ± 2.4	155.2 ± 2.7	156.1 ± 2.5	155.2 ± 2.3
M_A (M _⊙)	0.986 ± 0.075	1.015 ± 0.052	0.998 ± 0.045	0.975 ± 0.051	0.993 ± 0.048	0.975 ± 0.043
R_A (R _⊙)	0.963 ± 0.025	0.972 ± 0.017	0.966 ± 0.015	0.959 ± 0.017	0.965 ± 0.016	0.959 ± 0.014
log g_A (cgs)	4.4653 ± 0.0113	4.4695 ± 0.0080	4.4669 ± 0.0072	4.4635 ± 0.0081	4.4663 ± 0.0077	4.4636 ± 0.0070
M_b (M _{Jup})	1.202 ± 0.063	1.226 ± 0.045	1.211 ± 0.040	1.193 ± 0.045	1.208 ± 0.043	1.193 ± 0.039
R_b (R _{Jup})	1.191 ± 0.030	1.202 ± 0.021	1.195 ± 0.018	1.186 ± 0.021	1.194 ± 0.019	1.186 ± 0.017
ρ_b (ρ _{Jup})	0.666 ± 0.020	0.659 ± 0.015	0.663 ± 0.014	0.668 ± 0.015	0.664 ± 0.015	0.668 ± 0.014
Θ	0.0728 ± 0.0021	0.0721 ± 0.0016	0.0726 ± 0.0015	0.0731 ± 0.0017	0.0727 ± 0.0016	0.0731 ± 0.0015
a (AU)	0.03562 ± 0.00090	0.03596 ± 0.00061	0.03575 ± 0.00054	0.03548 ± 0.00061	0.03570 ± 0.00058	0.03548 ± 0.00052
Age (Gyr)		3.2 ^{+2.0} _{-2.2}	3.2 ^{+1.1} _{-1.6}	4.0 ^{+1.9} _{-1.6}	3.0 ^{+1.4} _{-1.9}	3.8 ^{+1.3} _{-1.2}
	This work (final)		Paper III		Paper II	
M_A (M _⊙)	0.991 ± 0.052 ± 0.024		1.049 ± 0.054 ± 0.030		0.991 ± 0.050 ± 0.025	
R_A (R _⊙)	0.964 ± 0.017 ± 0.008		1.002 ± 0.029 ± 0.010		0.994 ± 0.031 ± 0.009	
log g_A (cgs)	4.4660 ± 0.0081 ± 0.0035		4.457 ± 0.027 ± 0.004		4.440 ± 0.028 ± 0.004	
ρ_A (ρ _⊙)	1.105 ± 0.011		1.043 ± 0.088		1.010 ± 0.092	
M_b (M _{Jup})	1.206 ± 0.045 ± 0.020		1.253 ± 0.047 ± 0.024		1.206 ± 0.045 ± 0.020	
R_b (R _{Jup})	1.193 ± 0.021 ± 0.010		1.261 ± 0.039 ± 0.012		1.226 ± 0.040 ± 0.010	
g_b (m s ⁻¹)	21.02 ± 0.31		19.5 ± 1.1		19.9 ± 1.2	
ρ_b (ρ _{Jup})	0.665 ± 0.015 ± 0.005		0.626 ± 0.051 ± 0.006		0.654 ± 0.057 ± 0.006	
T'_{eq} (K)	1466 ± 12		1467 ± 27			
Θ	0.0727 ± 0.0017 ± 0.0006		0.0688 ± 0.0024 ± 0.0007			
a (AU)	0.03567 ± 0.00061 ± 0.00029		0.03635 ± 0.00063 ± 0.00035		0.03568 ± 0.00061 ± 0.00031	
Age (Gyr)	3.4 ^{+2.0} _{-2.2} ^{+0.5} _{-0.5}		2.5 ^{+2.8} _{-2.5} ^{+0.7} _{-0.8}		5.3 ^{+1.6} _{-2.6} ^{+0.8} _{-0.8}	
	O'Donovan et al. (2006)	Holman et al. (2007)	Sozzetti et al. (2007)	TWH08	Winn et al. (2008)	
M_A (M _⊙)	1.08 ^{+0.11} _{-0.05}		0.980 ± 0.062	0.983 ^{+0.059} _{-0.063}	0.980 ± 0.062	
R_A (R _⊙)	1.00 ^{+0.06} _{-0.04}	1.003 ± 0.027	1.000 ^{+0.036} _{-0.033}	1.003 ^{+0.033} _{-0.033}	1.000 ^{+0.036} _{-0.033}	
log g_A (cgs)			4.429 ^{+0.021} _{-0.023}	4.427 ^{+0.019} _{-0.021}		
ρ_A (ρ _⊙)			0.976 ± 0.046	0.974 ^{+0.043} _{-0.042}		
M_b (M _{Jup})	1.28 ^{+0.09} _{-0.04}	1.198 ± 0.053		1.200 ^{+0.051} _{-0.053}	1.198 ± 0.053	
R_b (R _{Jup})	1.24 ^{+0.09} _{-0.06}	1.222 ± 0.038		1.224 ^{+0.041} _{-0.041}	1.220 ^{+0.045} _{-0.042}	
g_b (m s ⁻¹)		19.76 ± 0.91		19.86 ^{+0.75} _{-0.72}		
ρ_b (ρ _{Jup})	0.67 ^{+0.10} _{-0.07}			0.665 ^{+0.077} _{-0.067}		
T'_{eq} (K)				1498 ⁺¹⁷ ₋₁₇		
Θ				0.0709 ^{+0.0022} _{-0.0021}		
a (AU)				0.03558 ^{+0.00070} _{-0.00077}		
Age (Gyr)				5.0 ^{+2.7} _{-2.1}		
	Daemgen et al. (2009)	Christensen-Dalsgaard et al. (2010)	Kipping & Bakos (2011a)	Christiansen et al. (2011)		
M_A (M _⊙)	0.983 ± 0.061		0.992 ^{+0.039} _{-0.045}	0.98 ± 0.062 adopted		
R_A (R _⊙)	0.999 ± 0.033		0.939 ± 0.022	0.940 ± 0.026		
log g_A (cgs)			4.488 ± 0.017			
ρ_A (ρ _⊙)	0.987 ± 0.043	0.9398 ± 0.0019	1.204 ^{+0.069} _{-0.066}			
M_b (M _{Jup})	1.199 ± 0.052		1.199 ^{+0.038} _{-0.042}	1.198 ± 0.053 adopted		
R_b (R _{Jup})	1.272 ± 0.041		1.173 ± 0.027	1.169 ± 0.034		
g_b (m s ⁻¹)	19.2 ± 0.8		21.58 ^{+0.81} _{-0.78}			
ρ_b (ρ _{Jup})	0.62 ± 0.07		0.694 ^{+0.038} _{-0.037}			
T'_{eq} (K)	1495 ± 17					
Θ	0.0697 ± 0.0022					
a (AU)	0.03556 ± 0.00075		0.03566 ^{+0.00049} _{-0.00056}			
Age (Gyr)						

Table A113. Parameters of the JKTEBOP best fits of the TrES-3 790.2 nm light curve from Colón et al. (2010), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 36 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	$0.1949^{+0.0038}_{-0.0030}$	$0.1958^{+0.0038}_{-0.0031}$	$0.1960^{+0.0039}_{-0.0031}$	$0.1959^{+0.0038}_{-0.0031}$	$0.1984^{+0.0054}_{-0.0037}$
k	$0.1674^{+0.0036}_{-0.0022}$	$0.1659^{+0.0035}_{-0.0020}$	$0.1665^{+0.0037}_{-0.0022}$	$0.1663^{+0.0035}_{-0.0022}$	$0.1670^{+0.0056}_{-0.0032}$
i (deg.)	$81.97^{+0.18}_{-0.25}$	$81.94^{+0.18}_{-0.24}$	$81.90^{+0.19}_{-0.25}$	$81.92^{+0.19}_{-0.25}$	$81.66^{+0.25}_{-0.34}$
u_A	0.50 fixed	0.26 fixed	0.09 fixed	0.60 fixed	0.25 fixed
v_A		0.31 fixed	0.57 fixed	0.25 fixed	0.15 fixed
T_0	$54.52449^{+0.00013}_{-0.00012}$	$54.52449^{+0.00012}_{-0.00012}$	$54.52449^{+0.00011}_{-0.00013}$	$54.52449^{+0.00013}_{-0.00012}$	$54.52449^{+0.00012}_{-0.00012}$
r_A	$0.1669^{+0.0028}_{-0.0024}$	$0.1679^{+0.0030}_{-0.0024}$	$0.1680^{+0.0028}_{-0.0025}$	$0.1680^{+0.0028}_{-0.0025}$	$0.1700^{+0.0038}_{-0.0028}$
r_B	$0.02795^{+0.00101}_{-0.00068}$	$0.02787^{+0.00093}_{-0.00067}$	$0.02797^{+0.00106}_{-0.00069}$	$0.02794^{+0.00105}_{-0.00069}$	$0.02839^{+0.00153}_{-0.00097}$
σ (mmag)	0.5543	0.5522	0.5554	0.5539	0.5627
χ^2_{red}	1.2005	1.1907	1.2051	1.1986	1.2378
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	$0.1937^{+0.0081}_{-0.0039}$	$0.1953^{+0.0090}_{-0.0043}$	$0.1949^{+0.0087}_{-0.0045}$	$0.1951^{+0.0087}_{-0.0045}$	$0.1948^{+0.0080}_{-0.0046}$
k	$0.1696^{+0.0032}_{-0.0044}$	$0.1677^{+0.0033}_{-0.0042}$	$0.1683^{+0.0035}_{-0.0043}$	$0.1681^{+0.0035}_{-0.0040}$	$0.1684^{+0.0036}_{-0.0043}$
i (deg.)	$82.33^{+0.35}_{-0.38}$	$82.27^{+0.32}_{-0.47}$	$82.30^{+0.33}_{-0.45}$	$82.28^{+0.33}_{-0.44}$	$82.30^{+0.34}_{-0.42}$
u_A	$0.83^{+0.29}_{-0.31}$	$0.61^{+0.36}_{-0.37}$	$0.47^{+0.34}_{-0.37}$	$0.96^{+0.34}_{-0.35}$	$0.77^{+0.35}_{-0.32}$
v_A		0.31 perturbed	0.57 perturbed	0.25 perturbed	0.15 perturbed
T_0	$54.52450^{+0.00013}_{-0.00012}$	$54.52450^{+0.00012}_{-0.00012}$	$54.52450^{+0.00012}_{-0.00012}$	$54.52450^{+0.00011}_{-0.00013}$	$54.52450^{+0.00012}_{-0.00012}$
r_A	$0.1656^{+0.0067}_{-0.0032}$	$0.1672^{+0.0079}_{-0.0035}$	$0.1668^{+0.0078}_{-0.0036}$	$0.1670^{+0.0078}_{-0.0036}$	$0.1667^{+0.0078}_{-0.0037}$
r_B	$0.0281^{+0.0011}_{-0.0009}$	$0.0280^{+0.0013}_{-0.0008}$	$0.0281^{+0.0013}_{-0.0010}$	$0.0281^{+0.0013}_{-0.0009}$	$0.0281^{+0.0013}_{-0.0009}$
σ (mmag)	0.5389	0.5394	0.5393	0.5394	0.5393
χ^2_{red}	1.1680	1.1702	1.1699	1.1701	1.1698

Table A114. Parameters of the JKTEBOP best fits of the TrES-3 794.4 nm light curve from Colón et al. (2010), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD – 2454000.0. The light curve contains 35 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	$0.1944^{+0.0052}_{-0.0037}$	$0.1955^{+0.0049}_{-0.0037}$	$0.1955^{+0.0049}_{-0.0041}$	$0.1955^{+0.0052}_{-0.0039}$	$0.1968^{+0.0052}_{-0.0042}$
k	$0.1645^{+0.0055}_{-0.0030}$	$0.1632^{+0.0051}_{-0.0029}$	$0.1635^{+0.0053}_{-0.0030}$	$0.1634^{+0.0053}_{-0.0032}$	$0.1630^{+0.0059}_{-0.0037}$
i (deg.)	$81.88^{+0.24}_{-0.34}$	$81.83^{+0.23}_{-0.32}$	$81.81^{+0.26}_{-0.32}$	$81.82^{+0.25}_{-0.35}$	$81.64^{+0.27}_{-0.34}$
u_A	0.50 fixed	0.26 fixed	0.09 fixed	0.60 fixed	0.25 fixed
v_A		0.31 fixed	0.57 fixed	0.25 fixed	0.15 fixed
T_0	$54.52445^{+0.00012}_{-0.00013}$	$54.52445^{+0.00013}_{-0.00014}$	$54.52445^{+0.00012}_{-0.00013}$	$54.52445^{+0.00014}_{-0.00013}$	$54.52445^{+0.00012}_{-0.00013}$
r_A	$0.1670^{+0.0035}_{-0.0029}$	$0.1681^{+0.0035}_{-0.0029}$	$0.1680^{+0.0035}_{-0.0032}$	$0.1680^{+0.0037}_{-0.0030}$	$0.1692^{+0.0037}_{-0.0032}$
r_B	$0.0275^{+0.0015}_{-0.0009}$	$0.0274^{+0.0014}_{-0.0009}$	$0.0275^{+0.0015}_{-0.0010}$	$0.0275^{+0.0015}_{-0.0009}$	$0.0276^{+0.0016}_{-0.0010}$
σ (mmag)	0.4671	0.4680	0.4668	0.4673	0.4653
χ^2_{red}	0.8273	0.8306	0.8261	0.8279	0.8210
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	$0.197^{+0.015}_{-0.006}$	$0.198^{+0.014}_{-0.007}$	$0.197^{+0.015}_{-0.006}$	$0.198^{+0.015}_{-0.006}$	$0.198^{+0.015}_{-0.007}$
k	$0.1641^{+0.0069}_{-0.0054}$	$0.1624^{+0.0070}_{-0.0049}$	$0.1630^{+0.0055}_{-0.0054}$	$0.1628^{+0.0068}_{-0.0054}$	$0.1630^{+0.0061}_{-0.0055}$
i (deg.)	$81.56^{+0.57}_{-1.35}$	$81.55^{+0.62}_{-1.34}$	$81.58^{+0.58}_{-1.37}$	$81.57^{+0.55}_{-1.39}$	$81.58^{+0.67}_{-1.32}$
u_A	$0.27^{+0.41}_{-1.15}$	$0.02^{+0.48}_{-1.33}$	$-0.09^{+0.44}_{-1.22}$	$0.40^{+0.44}_{-1.22}$	$0.20^{+0.47}_{-1.27}$
v_A		0.31 perturbed	0.57 perturbed	0.25 perturbed	0.15 perturbed
T_0	$54.52445^{+0.00012}_{-0.00011}$	$54.52445^{+0.00013}_{-0.00011}$	$54.52445^{+0.00012}_{-0.00014}$	$54.52445^{+0.00012}_{-0.00013}$	$54.52445^{+0.00013}_{-0.00013}$
r_A	$0.170^{+0.013}_{-0.005}$	$0.170^{+0.013}_{-0.005}$	$0.170^{+0.013}_{-0.005}$	$0.170^{+0.012}_{-0.005}$	$0.170^{+0.012}_{-0.005}$
r_B	$0.0278^{+0.0024}_{-0.0012}$	$0.0276^{+0.0026}_{-0.0013}$	$0.0277^{+0.0025}_{-0.0012}$	$0.0277^{+0.0026}_{-0.0011}$	$0.0277^{+0.0026}_{-0.0013}$
σ (mmag)	0.4650	0.4651	0.4651	0.4651	0.4651
χ^2_{red}	0.8479	0.8483	0.8484	0.8483	0.8483

Table A115. Parameters of the JKTEBOP best fits of the EPOCH light curve of TrES-2, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as BJD(UTC) – 2454000.0. The light curve contains 3517 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.1963 ^{+0.0037} _{-0.0031}	0.1973 ^{+0.0042} _{-0.0032}	0.1974 ^{+0.0041} _{-0.0031}	0.1975 ^{+0.0041} _{-0.0032}	0.1996 ^{+0.0048} _{-0.0038}
k	0.1646 ^{+0.0044} _{-0.0024}	0.1633 ^{+0.0043} _{-0.0023}	0.1635 ^{+0.0040} _{-0.0026}	0.1635 ^{+0.0044} _{-0.0027}	0.1648 ^{+0.0059} _{-0.0036}
i (deg.)	81.83 ^{+0.19} _{-0.24}	81.77 ^{+0.20} _{-0.27}	81.75 ^{+0.21} _{-0.27}	81.75 ^{+0.20} _{-0.27}	81.52 ^{+0.25} _{-0.31}
u_A	0.62 fixed	0.42 fixed	0.27 fixed	0.71 fixed	0.40 fixed
v_A		0.25 fixed	0.49 fixed	0.24 fixed	0.12 fixed
P	1.306310 ^{+0.000037} _{-0.000034}	1.306310 ^{+0.000034} _{-0.000036}	1.306310 ^{+0.000038} _{-0.000035}	1.306310 ^{+0.000035} _{-0.000036}	1.306309 ^{+0.000035} _{-0.000035}
T_0	538.58083 ^{+0.00011} _{-0.00011}	538.58083 ^{+0.00011} _{-0.00011}	538.58083 ^{+0.00010} _{-0.00011}	538.58083 ^{+0.00011} _{-0.00010}	538.58082 ^{+0.00011} _{-0.00011}
r_A	0.1685 ^{+0.0026} _{-0.0023}	0.1696 ^{+0.0030} _{-0.0025}	0.1696 ^{+0.0030} _{-0.0023}	0.1698 ^{+0.0030} _{-0.0024}	0.1714 ^{+0.0034} _{-0.0028}
r_b	0.0277 ^{+0.0011} _{-0.0007}	0.0277 ^{+0.0012} _{-0.0008}	0.0278 ^{+0.0012} _{-0.0008}	0.0278 ^{+0.0012} _{-0.0008}	0.0282 ^{+0.0015} _{-0.0010}
σ (mmag)	2.1777	2.1775	2.1778	2.1777	2.1788
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.2086 ^{+0.0067} _{-0.0092}	0.2093 ^{+0.0072} _{-0.0077}	0.2087 ^{+0.0070} _{-0.0077}	0.2090 ^{+0.0069} _{-0.0086}	0.2088 ^{+0.0069} _{-0.0077}
k	0.1561 ^{+0.0036} _{-0.0028}	0.1559 ^{+0.0033} _{-0.0028}	0.1563 ^{+0.0030} _{-0.0028}	0.1562 ^{+0.0032} _{-0.0028}	0.1562 ^{+0.0033} _{-0.0025}
i (deg.)	82.28 ^{+0.30} _{-0.30}	82.17 ^{+0.28} _{-0.30}	82.20 ^{+0.28} _{-0.29}	82.17 ^{+0.27} _{-0.29}	82.21 ^{+0.27} _{-0.30}
u_A	1.340 ^{+0.051} _{-0.099}	1.145 ^{+0.082} _{-0.108}	0.999 ^{+0.074} _{-0.120}	1.438 ^{+0.068} _{-0.114}	1.265 ^{+0.072} _{-0.107}
v_A		0.25 perturbed	0.49 perturbed	0.24 perturbed	0.12 perturbed
P	1.306307 ^{+0.000037} _{-0.000033}	1.306307 ^{+0.000032} _{-0.000037}	1.306307 ^{+0.000033} _{-0.000036}	1.306307 ^{+0.000035} _{-0.000036}	1.306306 ^{+0.000037} _{-0.000036}
T_0	538.58084 ^{+0.00010} _{-0.00012}	538.58084 ^{+0.00011} _{-0.00011}	538.58084 ^{+0.00011} _{-0.00011}	538.58084 ^{+0.00011} _{-0.00011}	538.58084 ^{+0.00011} _{-0.00011}
r_A	0.1805 ^{+0.0058} _{-0.0082}	0.1811 ^{+0.0061} _{-0.0072}	0.1805 ^{+0.0059} _{-0.0072}	0.1808 ^{+0.0058} _{-0.0077}	0.1806 ^{+0.0056} _{-0.0070}
r_b	0.0282 ^{+0.0012} _{-0.0013}	0.0282 ^{+0.0012} _{-0.0011}	0.0282 ^{+0.0011} _{-0.0011}	0.0282 ^{+0.0012} _{-0.0011}	0.0282 ^{+0.0012} _{-0.0010}
σ (mmag)	2.1721	2.1722	2.1721	2.1722	2.1721
Fitting for both LD coefficients					
$r_A + r_b$	0.2086 ^{+0.0067} _{-0.0095}	0.2086 ^{+0.0076} _{-0.0105}	0.2086 ^{+0.0077} _{-0.0101}	0.2088 ^{+0.0077} _{-0.0091}	0.2089 ^{+0.0070} _{-0.0102}
k	0.1561 ^{+0.0036} _{-0.0031}	0.1561 ^{+0.0035} _{-0.0043}	0.1561 ^{+0.0037} _{-0.0043}	0.1560 ^{+0.0036} _{-0.0042}	0.1562 ^{+0.0034} _{-0.0043}
i (deg.)	82.28 ^{+0.33} _{-0.29}	82.29 ^{+0.55} _{-0.51}	82.28 ^{+0.54} _{-0.47}	82.29 ^{+0.54} _{-0.45}	82.27 ^{+0.53} _{-0.48}
u_A	1.34 ^{+0.05} _{-0.10}	1.37 ^{+0.49} _{-0.81}	1.37 ^{+1.21} _{-1.36}	1.32 ^{+0.38} _{-0.30}	1.35 ^{+0.29} _{-0.45}
v_A		-0.03 ^{+1.02} _{-0.64}	-0.04 ^{+2.03} _{-1.79}	-0.06 ^{+0.87} _{-0.70}	-0.01 ^{+0.72} _{-0.47}
P	1.306307 ^{+0.000033} _{-0.000034}	1.306307 ^{+0.000033} _{-0.000036}	1.306307 ^{+0.000033} _{-0.000037}	1.306307 ^{+0.000036} _{-0.000036}	1.306307 ^{+0.000033} _{-0.000033}
T_0	538.58084 ^{+0.00011} _{-0.00011}	538.58084 ^{+0.00012} _{-0.00010}	538.58084 ^{+0.00011} _{-0.00011}	538.58084 ^{+0.00012} _{-0.00011}	538.58084 ^{+0.00011} _{-0.00011}
r_A	0.1805 ^{+0.0056} _{-0.0085}	0.1805 ^{+0.0063} _{-0.0089}	0.1804 ^{+0.0065} _{-0.0087}	0.1807 ^{+0.0063} _{-0.0080}	0.1807 ^{+0.0059} _{-0.0087}
r_b	0.0282 ^{+0.0012} _{-0.0013}	0.0282 ^{+0.0012} _{-0.0015}	0.0282 ^{+0.0012} _{-0.0016}	0.0282 ^{+0.0013} _{-0.0014}	0.0282 ^{+0.0012} _{-0.0014}
σ (mmag)	2.1721	2.1721	2.1721	2.1721	2.1721

Table A116. Final parameters of the fits to the light curves of TrES-3 from the JKTEBOP analysis, compared to those found by other authors. The light curve results from Paper III are reproduced and used in calculating the final results for the current work. Quantities without quoted uncertainties were not given by other authors but have been calculated from those parameters which were.

	Paper III (<i>B</i> -band)	Paper III (<i>z</i> -band)	Paper III (<i>V</i> -band)	Paper III (<i>g</i> -band)	Paper III (<i>r</i> -band)	Paper III (<i>i</i> -band)	Paper III (LT/RISE)
$r_A + r_B$	$0.189^{+0.027}_{-0.012}$	$0.1958^{+0.0101}_{-0.0058}$	$0.215^{+0.027}_{-0.017}$	$0.214^{+0.023}_{-0.020}$	$0.1921^{+0.0039}_{-0.0055}$	$0.1948^{+0.0034}_{-0.0055}$	$0.1934^{+0.0055}_{-0.0026}$
k	$0.164^{+0.030}_{-0.009}$	$0.1671^{+0.0041}_{-0.0052}$	$0.203^{+0.107}_{-0.040}$	$0.201^{+0.095}_{-0.054}$	$0.1602^{+0.0023}_{-0.0045}$	$0.1654^{+0.0031}_{-0.0045}$	$0.1646^{+0.0023}_{-0.0013}$
i (°)	$81.8^{+1.2}_{-2.2}$	$82.32^{+0.48}_{-0.88}$	$80.6^{+1.2}_{-2.0}$	$80.9^{+1.7}_{-1.7}$	$82.05^{+0.37}_{-0.26}$	$82.07^{+0.20}_{-0.26}$	$82.05^{+0.35}_{-0.54}$
r_A	$0.1621^{+0.0203}_{-0.0096}$	$0.1677^{+0.0094}_{-0.0046}$	$0.1791^{+0.0068}_{-0.0102}$	$0.1783^{+0.0082}_{-0.0075}$	$0.1656^{+0.0031}_{-0.0041}$	$0.1672^{+0.0026}_{-0.0041}$	$0.1660^{+0.0044}_{-0.0021}$
r_B	$0.0266^{+0.0069}_{-0.0024}$	$0.0280^{+0.0015}_{-0.0011}$	$0.0364^{+0.0205}_{-0.0089}$	$0.036^{+0.019}_{-0.011}$	$0.02653^{+0.00075}_{-0.00140}$	$0.02765^{+0.00095}_{-0.00140}$	$0.02733^{+0.00113}_{-0.00048}$
	This work (790.2 nm)	This work (794.4 nm)	This work (EPOCH)	This work (final)	Paper III		
$r_A + r_B$	$0.1950^{+0.0098}_{-0.0050}$	$0.1976^{+0.0137}_{-0.0062}$	$0.1980^{+0.0049}_{-0.0039}$	$0.1954^{+0.0018}_{-0.0017}$	$0.1940^{+0.0021}_{-0.0018}$		
k	$0.1681^{+0.0039}_{-0.0053}$	$0.1628^{+0.0118}_{-0.0056}$	$0.1639^{+0.0059}_{-0.0036}$	$0.1642^{+0.0010}_{-0.0009}$	$0.1641^{+0.0020}_{-0.0019}$		
i (°)	$82.29^{+0.37}_{-0.99}$	$81.57^{+0.62}_{-1.99}$	$81.70^{+0.27}_{-0.33}$	$81.93^{+0.13}_{-0.13}$	$82.07^{+0.16}_{-0.17}$		
r_A	$0.1669^{+0.0086}_{-0.0040}$	$0.1699^{+0.0118}_{-0.0050}$	$0.1701^{+0.0034}_{-0.0029}$	$0.1682^{+0.0014}_{-0.0014}$	$0.1666^{+0.0017}_{-0.0015}$		
r_B	$0.0281^{+0.0014}_{-0.0011}$	$0.0277^{+0.0034}_{-0.0015}$	$0.0279^{+0.0015}_{-0.0012}$	$0.02750^{+0.00037}_{-0.00033}$	$0.02731^{+0.00055}_{-0.00043}$		
	O'Donovan et al. (2007)	TWH08	Sozzetti et al. (2009)	Gibson et al. (2009)	Colón et al. (2010)	Lee et al. (2011)	Christiansen et al. (2011)
$r_A + r_B$	0.1925	0.1926	0.1978			0.1954 ± 0.0023	0.1940
k	0.1660 ± 0.0024	$0.1660^{+0.0024}_{-0.0024}$	0.1655 ± 0.0020	$0.1664^{+0.0011}_{-0.0018}$	$0.1662^{+0.0046}_{-0.0048}$	0.1603 ± 0.0042	0.1661 ± 0.0343
i (°)	82.15 ± 0.21	$82.15^{+0.21}_{-0.21}$	81.85 ± 0.16	$81.73^{+0.13}_{-0.04}$		81.77 ± 0.14	81.99 ± 0.30
r_A	0.1651	$0.1652^{+0.0027}_{-0.0028}$	0.1697 ± 0.0016			0.1687 ± 0.017	0.1664 ± 0.0204
r_B	0.02738	0.02742	0.02809			0.02712 ± 0.00074	0.02764

Table A117. Derived physical properties of the TrES-3 system. The upper part of the table contains the individual results from this work; in each case $g_b = 27.4 \pm 1.1 \text{ m s}^{-2}$, $\rho_A = 1.648 \pm 0.041 \rho_\odot$ and $T'_{\text{eq}} = 1638 \pm 22 \text{ K}$. The lower parts of the table contain the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)	
K_b (km s ⁻¹)	184.78 ± 4.48	188.27 ± 0.68	187.58 ± 0.70	186.98 ± 0.96	186.82 ± 0.72	187.09 ± 0.96	
M_A (M _⊙)	0.883 ± 0.064	0.934 ± 0.010	0.924 ± 0.010	0.915 ± 0.014	0.913 ± 0.011	0.917 ± 0.014	
R_A (R _⊙)	0.8123 ± 0.0211	0.8276 ± 0.0093	0.8245 ± 0.0093	0.8219 ± 0.0097	0.8212 ± 0.0092	0.8224 ± 0.0098	
log g_A (cgs)	4.5650 ± 0.0125	4.5731 ± 0.0061	4.5715 ± 0.0062	4.5701 ± 0.0064	4.5698 ± 0.0063	4.5704 ± 0.0063	
M_b (M _{Jup})	1.847 ± 0.105	1.918 ± 0.059	1.904 ± 0.059	1.892 ± 0.060	1.888 ± 0.058	1.894 ± 0.060	
R_b (R _{Jup})	1.292 ± 0.036	1.316 ± 0.018	1.311 ± 0.018	1.307 ± 0.019	1.306 ± 0.018	1.308 ± 0.019	
ρ_b (ρ _{Jup})	0.801 ± 0.045	0.786 ± 0.040	0.789 ± 0.040	0.792 ± 0.040	0.792 ± 0.040	0.791 ± 0.040	
Θ	0.0726 ± 0.0030	0.0713 ± 0.0023	0.0715 ± 0.0024	0.0718 ± 0.0024	0.0718 ± 0.0024	0.0717 ± 0.0024	
a (AU)	0.02245 ± 0.00054	0.02288 ± 0.00008	0.02279 ± 0.00008	0.02272 ± 0.00012	0.02270 ± 0.00009	0.02273 ± 0.00012	
Age (Gyr)		1.0 ^{+0.0} _{-0.0}	1.0 ^{+0.0} _{-0.0}	1.0 ^{+0.5} _{-0.0}	1.0 ^{+0.0} _{-0.0}	1.0 ^{+0.3} _{-0.0}	
This work (final)		Paper III					
M_A (M _⊙)	0.921 ± 0.014 ± 0.014	0.929 ^{+0.101+0.014} _{-0.030-0.021}					
R_A (R _⊙)	0.8235 ± 0.0098 ± 0.0040	0.818 ^{+0.030+0.004} _{-0.013-0.006}					
log g_A (cgs)	4.5710 ± 0.0064 ± 0.0021	4.581 ^{+0.016+0.002} _{-0.010-0.003}					
ρ_A (ρ _⊙)	1.648 ± 0.041	1.700 ^{+0.047} _{-0.051}					
M_b (M _{Jup})	1.899 ± 0.060 ± 0.019	1.910 ^{+0.148+0.020} _{-0.070-0.029}					
R_b (R _{Jup})	1.310 ± 0.019 ± 0.006	1.305 ^{+0.053+0.007} _{-0.025-0.010}					
g_b (m s ⁻¹)	27.4 ± 1.1	27.8 ^{+1.2} _{-1.4}					
ρ_b (ρ _{Jup})	0.790 ± 0.040 ± 0.004	0.860 ^{+0.050^{+0.007}} _{-0.063-0.004}					
T'_{eq} (K)	1638 ± 22	1630 ⁺²³ ₋₂₂					
Θ	0.0716 ± 0.0024 ± 0.0004	0.0719 ^{+0.0026+0.0005} _{-0.0035-0.0004}					
a (AU)	0.02276 ± 0.00012 ± 0.00011	0.02283 ^{+0.00012+0.00012} _{-0.00025-0.00017}					
Age (Gyr)	1.0 ^{+0.5+0.0} _{-0.0-0.0}	0.0 ^{+0.7+0.0} _{-0.0-0.0}					
	O'Donovan et al. (2007)	TWH08	Sozzetti et al. (2009)	de Mooij & Snellen (2009)	Gibson et al. (2009)	Lee et al. (2011)	Christiansen et al. (2011)
M_A (M _⊙)	0.91 ± 0.15	0.915 ^{+0.021} _{-0.031}	0.928 ^{+0.028} _{-0.048}			0.944 ± 0.025	0.928 ^{+0.028} _{-0.048} adopted
R_A (R _⊙)	0.802 ± 0.046	0.812 ^{+0.014} _{-0.025}	0.829 ^{+0.015} _{-0.022}			0.832 ± 0.013	0.817 ± 0.022
log g_A (cgs)	4.6 ± 0.3	4.581 ^{+0.017} _{-0.012}	4.568 ^{+0.009} _{-0.014}			4.572 ± 0.018	
ρ_A (ρ _⊙)		1.754 ^{+0.085} _{-0.085}	1.636 ± 0.046			1.639 ± 0.050	
M_b (M _{Jup})	1.92 ± 0.23	1.938 ^{+0.062} _{-0.063}	1.910 ^{+0.075} _{-0.080}		1.910 ^{+0.075} _{-0.080}	1.931 ± 0.074	1.910 ^{+0.075} _{-0.080} adopted
R_b (R _{Jup})	1.295 ± 0.081	1.312 ^{+0.033} _{-0.041}	1.336 ^{+0.031} _{-0.036}	1.338 ± 0.016	1.341 ^{+0.025} _{-0.035}	1.302 ± 0.038	1.320 ± 0.057
g_b (m s ⁻¹)		28.3 ^{+1.5} _{-1.4}	26.6 ± 1.2		26.3 ^{+1.4} _{-1.3}	28.2 ± 1.2	
ρ_b (ρ _{Jup})		0.858 ^{+0.089} _{-0.068}	0.801 ^{+0.077} _{-0.063}		0.792 ^{+0.047} _{-0.042}	0.817 ± 0.056	
T'_{eq} (K)		1623 ⁺²⁶ ₋₂₅				1641 ± 23	
Θ		0.0738 ^{+0.0026} _{-0.0026}				0.0721 ± 0.0039	
a (AU)	0.0226 ± 0.0013	0.02272 ^{+0.00017} _{-0.00026}	0.02282 ^{+0.00023} _{-0.00040}			0.02297 ± 0.00028	
Age (Gyr)		0.6 ^{+2.0} _{-0.4}	0.9 ^{+2.8} _{-0.8}			0.2 ± 1.0	

Table A118. Parameters of the JKTEBOP best fits of the WASP-3 *g*-band light curve from Tripathi et al. (2010), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD $- 2454000.0$. The light curve contains 463 datapoints. The original errorbars were multiplied by $\sqrt{0.25}$ to obtain $\chi^2_{\nu} \approx 1.0$.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.2176 ± 0.0090	0.2169 ± 0.0084	0.2171 ± 0.0090	0.2177 ± 0.0089	0.2238 ± 0.0074
k	0.1079 ± 0.0017	0.1077 ± 0.0014	0.1076 ± 0.0016	0.1081 ± 0.0015	0.1104 ± 0.0011
i (deg.)	84.34 ± 0.94	84.39 ± 0.90	84.40 ± 0.96	84.27 ± 0.92	83.43 ± 0.68
u_A	0.72 fixed	0.51 fixed	0.38 fixed	0.79 fixed	0.50 fixed
v_A		0.26 fixed	0.51 fixed	0.21 fixed	0.12 fixed
T_0	963.84453 ± 0.00035	963.84453 ± 0.00036	963.84453 ± 0.00035	963.84453 ± 0.00035	963.84449 ± 0.00034
r_A	0.1964 ± 0.0079	0.1958 ± 0.0074	0.1960 ± 0.0078	0.1965 ± 0.0077	0.2015 ± 0.0065
r_B	0.02119 ± 0.00117	0.02108 ± 0.00108	0.02110 ± 0.00113	0.02123 ± 0.00111	0.02224 ± 0.00091
σ (mmag)	1.3163	1.3053	1.3091	1.3064	1.3075
χ^2_{red}	1.1072	1.0938	1.0982	1.0951	1.1021
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.2199 ± 0.0087	0.2181 ± 0.0098	0.2189 ± 0.0091	0.2186 ± 0.0096	0.2189 ± 0.0094
k	0.1095 ± 0.0016	0.1082 ± 0.0020	0.1087 ± 0.0017	0.1085 ± 0.0020	0.1088 ± 0.0019
i (deg.)	83.89 ± 0.84	84.19 ± 1.08	84.09 ± 0.96	84.12 ± 1.03	84.07 ± 1.00
u_A	0.623 ± 0.047	0.480 ± 0.068	0.322 ± 0.066	0.764 ± 0.069	0.591 ± 0.053
v_A		0.26 perturbed	0.51 perturbed	0.21 perturbed	0.12 perturbed
T_0	963.84450 ± 0.00034	963.84453 ± 0.00033	963.84453 ± 0.00035	963.84453 ± 0.00033	963.84452 ± 0.00034
r_A	0.1982 ± 0.0076	0.1968 ± 0.0085	0.1974 ± 0.0079	0.1972 ± 0.0083	0.1974 ± 0.0081
r_B	0.0217 ± 0.0011	0.0213 ± 0.0013	0.0215 ± 0.0012	0.0214 ± 0.0013	0.0215 ± 0.0012
σ (mmag)	1.3077	1.3042	1.3058	1.3053	1.3058
χ^2_{red}	1.1001	1.0954	1.0976	1.0969	1.0976
Fitting for both LD coefficients					
$r_A + r_B$	0.220 ± 0.009	0.232 ± 0.015	0.235 ± 0.013	0.233 ± 0.013	0.235 ± 0.014
k	0.1095 ± 0.0017	0.1006 ± 0.0029	0.1030 ± 0.0020	0.1019 ± 0.0022	0.1022 ± 0.0025
i (deg.)	83.9 ± 0.9	84.2 ± 1.4	83.5 ± 1.1	83.9 ± 1.2	83.7 ± 1.2
u_A	0.62 ± 0.05	-0.11 ± 0.40	-2.16 ± 0.83	2.00 ± 0.41	0.41 ± 0.16
v_A		1.77 ± 0.70	4.90 ± 1.33	1.82 ± 0.57	1.38 ± 0.46
T_0	963.84450 ± 0.00035	963.84450 ± 0.00034	963.84456 ± 0.00035	963.84453 ± 0.00035	963.84451 ± 0.00035
r_A	0.198 ± 0.008	0.210 ± 0.014	0.213 ± 0.011	0.211 ± 0.012	0.214 ± 0.012
r_B	0.0217 ± 0.0011	0.0212 ± 0.0016	0.0220 ± 0.0013	0.0215 ± 0.0014	0.0218 ± 0.0014
σ (mmag)	1.3077	1.2987	1.2987	1.2984	1.2990
χ^2_{red}	1.1001	1.0897	1.0884	1.0885	1.0894

Table A119. Parameters of the JKTEBOP best fits of the WASP-3 i -band light curve from Tripathi et al. (2010), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD $- 2454000.0$. The light curve contains 1194 datapoints. The original errorbars were multiplied by $\sqrt{0.69}$ to obtain $\chi^2_{\nu} \approx 1.0$.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.2037 ± 0.0063	0.2023 ± 0.0055	0.2038 ± 0.0056	0.2034 ± 0.0057	0.2122 ± 0.0049
k	0.10103 ± 0.00090	0.10107 ± 0.00062	0.10154 ± 0.00068	0.10140 ± 0.00063	0.10325 ± 0.00049
i (deg.)	85.83 ± 0.89	86.00 ± 0.78	85.74 ± 0.74	85.80 ± 0.77	84.53 ± 0.53
u_A	0.52 fixed	0.24 fixed	0.07 fixed	0.60 fixed	0.25 fixed
v_A		0.33 fixed	0.59 fixed	0.28 fixed	0.15 fixed
T_0	627.72175 ± 0.00018	627.72174 ± 0.00016	627.72175 ± 0.00017	627.72174 ± 0.00017	627.72175 ± 0.00017
r_A	0.1850 ± 0.0055	0.1837 ± 0.0049	0.1850 ± 0.0050	0.1847 ± 0.0050	0.1923 ± 0.0044
r_b	0.01869 ± 0.00071	0.01857 ± 0.00061	0.01878 ± 0.00062	0.01873 ± 0.00061	0.01986 ± 0.00051
σ (mmag)	1.4578	1.4512	1.4518	1.4515	1.4574
χ^2_{red}	1.0086	0.9960	0.9965	0.9961	1.0033
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.2075 ± 0.0056	0.2032 ± 0.0066	0.2059 ± 0.0057	0.2045 ± 0.0062	0.2060 ± 0.0061
k	0.10260 ± 0.00076	0.10131 ± 0.00095	0.10194 ± 0.00081	0.10162 ± 0.00089	0.10199 ± 0.00088
i (deg.)	85.14 ± 0.70	85.84 ± 0.96	85.43 ± 0.74	85.63 ± 0.86	85.41 ± 0.80
u_A	0.401 ± 0.033	0.224 ± 0.051	0.049 ± 0.050	0.588 ± 0.057	0.357 ± 0.040
v_A		0.33 perturbed	0.59 perturbed	0.28 perturbed	0.15 perturbed
T_0	627.72175 ± 0.00017	627.72174 ± 0.00016	627.72175 ± 0.00016	627.72175 ± 0.00016	627.72175 ± 0.00017
r_A	0.1882 ± 0.0050	0.1845 ± 0.0059	0.1868 ± 0.0051	0.1857 ± 0.0055	0.1869 ± 0.0054
r_b	0.01930 ± 0.00062	0.01869 ± 0.00073	0.01904 ± 0.00064	0.01887 ± 0.00071	0.01906 ± 0.00069
σ (mmag)	1.4524	1.4513	1.4517	1.4515	1.4517
χ^2_{red}	0.9978	0.9967	0.9970	0.9968	0.9970
Fitting for both LD coefficients					
$r_A + r_b$	0.2075 ± 0.0053	0.2034 ± 0.0070	0.2030 ± 0.0073	0.2034 ± 0.0072	0.2022 ± 0.0073
k	0.1026 ± 0.0007	0.1013 ± 0.0014	0.1007 ± 0.0021	0.1010 ± 0.0018	0.1007 ± 0.0021
i (deg.)	85.1 ± 0.7	85.8 ± 1.1	86.0 ± 1.2	85.9 ± 1.3	86.1 ± 1.4
u_A	0.401 ± 0.033	0.215 ± 0.144	-0.513 ± 0.836	0.713 ± 0.311	0.302 ± 0.074
v_A		0.34 ± 0.27	1.56 ± 1.46	0.46 ± 0.42	0.41 ± 0.36
T_0	627.72175 ± 0.00017	627.72174 ± 0.00017	627.72174 ± 0.00017	627.72174 ± 0.00017	627.72174 ± 0.00017
r_A	0.1882 ± 0.0047	0.1847 ± 0.0061	0.1845 ± 0.0064	0.1847 ± 0.0064	0.1837 ± 0.0065
r_b	0.01930 ± 0.00060	0.01870 ± 0.00087	0.01858 ± 0.00090	0.01867 ± 0.00092	0.01850 ± 0.00097
σ (mmag)	1.4524	1.4513	1.4512	1.4512	1.4511
χ^2_{red}	0.9978	0.9975	0.9974	0.9974	0.9973

Table A120. Parameters of the JKTEBOP best fits of the WASP-3 z -band light curve from Tripathi et al. (2010), using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as HJD $- 2454000.0$. The light curve contains 277 datapoints. The original errorbars were multiplied by $\sqrt{0.55}$ to obtain $\chi^2_{\nu} \approx 1.0$.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_B$	0.2318 ± 0.0059	0.2308 ± 0.0061	0.2348 ± 0.0060	0.2338 ± 0.0057	0.2401 ± 0.0050
k	0.11041 ± 0.00079	0.10977 ± 0.00064	0.11060 ± 0.00066	0.11032 ± 0.00062	0.11140 ± 0.00055
i (deg.)	83.20 ± 0.55	83.29 ± 0.56	82.87 ± 0.54	82.98 ± 0.52	82.25 ± 0.42
u_A	0.46 fixed	0.18 fixed	0.02 fixed	0.54 fixed	0.20 fixed
v_A		0.33 fixed	0.58 fixed	0.28 fixed	0.15 fixed
T_0	660.96402 ± 0.00017	660.96403 ± 0.00017	660.96404 ± 0.00018	660.96404 ± 0.00017	660.96406 ± 0.00016
r_A	0.2088 ± 0.0051	0.2080 ± 0.0053	0.2115 ± 0.0053	0.2105 ± 0.0050	0.2161 ± 0.0045
r_B	0.02305 ± 0.00071	0.02283 ± 0.00069	0.02339 ± 0.00071	0.02323 ± 0.00065	0.02407 ± 0.00057
σ (mmag)	0.8374	0.8280	0.8256	0.8258	0.8230
χ^2_{red}	1.0621	1.0383	1.0323	1.0328	1.0258
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_B$	0.2387 ± 0.0056	0.2382 ± 0.0064	0.2383 ± 0.0058	0.2382 ± 0.0061	0.2381 ± 0.0060
k	0.11172 ± 0.00066	0.11078 ± 0.00070	0.11116 ± 0.00065	0.11097 ± 0.00069	0.11117 ± 0.00069
i (deg.)	82.37 ± 0.50	82.49 ± 0.59	82.47 ± 0.54	82.49 ± 0.55	82.48 ± 0.55
u_A	0.303 ± 0.048	0.074 ± 0.077	-0.060 ± 0.062	0.460 ± 0.066	0.243 ± 0.061
v_A		0.33 perturbed	0.58 perturbed	0.28 perturbed	0.15 perturbed
T_0	660.96405 ± 0.00017	660.96405 ± 0.00017	660.96405 ± 0.00015	660.96405 ± 0.00017	660.96405 ± 0.00017
r_A	0.2147 ± 0.0049	0.2144 ± 0.0057	0.2144 ± 0.0052	0.2144 ± 0.0054	0.2143 ± 0.0053
r_B	0.02399 ± 0.00064	0.02376 ± 0.00074	0.02384 ± 0.00068	0.02379 ± 0.00070	0.02382 ± 0.00070
σ (mmag)	0.8207	0.8234	0.8220	0.8226	0.8221
χ^2_{red}	1.0240	1.0307	1.0271	1.0287	1.0275
Fitting for both LD coefficients					
$r_A + r_B$	0.2387 ± 0.0054	0.2395 ± 0.0051	0.2419 ± 0.0046	0.2417 ± 0.0049	0.2418 ± 0.0043
k	0.1117 ± 0.0006	0.1138 ± 0.0019	0.1146 ± 0.0018	0.1145 ± 0.0018	0.1143 ± 0.0017
i (deg.)	82.37 ± 0.48	82.18 ± 0.47	81.90 ± 0.41	81.94 ± 0.43	81.93 ± 0.41
u_A	0.30 ± 0.05	0.79 ± 0.36	1.99 ± 0.94	-0.16 ± 0.25	0.61 ± 0.20
v_A		-0.67 ± 0.47	-2.62 ± 1.43	-0.90 ± 0.52	-0.65 ± 0.39
T_0	660.96405 ± 0.00017	660.96405 ± 0.00016	660.96404 ± 0.00017	660.96404 ± 0.00017	660.96404 ± 0.00016
r_A	0.2147 ± 0.0047	0.2151 ± 0.0044	0.2170 ± 0.0040	0.2169 ± 0.0042	0.2170 ± 0.0038
r_B	0.02399 ± 0.00065	0.02448 ± 0.00077	0.02486 ± 0.00071	0.02483 ± 0.00072	0.02481 ± 0.00066
σ (mmag)	0.8207	0.8183	0.8183	0.8184	0.8183
χ^2_{red}	1.0240	1.0217	1.0218	1.0218	1.0216

Table A121. Parameters of the JKTEBOP best fits of the WASP-3 light curve from EPOCH, using different approaches to LD. For each part of the table the upper quantities are fitted parameters and the lower quantities are derived parameters. T_0 is given as BJD - 2454000.0. The light curve contains 3363 datapoints.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	0.2210 ± 0.0034	0.2206 ± 0.0030	0.2207 ± 0.0032	0.2199 ± 0.0032	0.2334 ± 0.0026
k	0.10645 ± 0.00046	0.10599 ± 0.00035	0.10617 ± 0.00043	0.10590 ± 0.00041	0.10844 ± 0.00028
i (deg.)	83.90 ± 0.34	83.94 ± 0.30	83.94 ± 0.31	84.04 ± 0.32	82.51 ± 0.22
u_A	0.56 fixed	0.31 fixed	0.21 fixed	0.68 fixed	0.30 fixed
v_A		0.31 fixed	0.52 fixed	0.25 fixed	0.15 fixed
T_0	686.820226 ± 0.000087	686.820218 ± 0.000082	686.820220 ± 0.000085	686.820220 ± 0.000083	686.820217 ± 0.000083
r_A	0.1998 ± 0.0030	0.1995 ± 0.0026	0.1996 ± 0.0028	0.1988 ± 0.0029	0.2105 ± 0.0023
r_b	0.02127 ± 0.00039	0.02114 ± 0.00034	0.02119 ± 0.00038	0.02106 ± 0.00038	0.02283 ± 0.00029
σ (mmag)	1.1316	1.1280	1.1289	1.1287	1.1319
Fitting for the linear LD coefficient and perturbing the nonlinear LD coefficient					
$r_A + r_b$	0.2253 ± 0.0031	0.2224 ± 0.0036	0.2238 ± 0.0034	0.2233 ± 0.0034	0.2235 ± 0.0032
k	0.10769 ± 0.00046	0.10637 ± 0.00058	0.10695 ± 0.00047	0.10671 ± 0.00052	0.10689 ± 0.00053
i (deg.)	83.33 ± 0.30	83.73 ± 0.37	83.55 ± 0.34	83.62 ± 0.35	83.58 ± 0.32
u_A	0.470 ± 0.021	0.287 ± 0.046	0.157 ± 0.045	0.629 ± 0.049	0.424 ± 0.030
v_A		0.31 perturbed	0.52 perturbed	0.25 perturbed	0.15 perturbed
T_0	686.820212 ± 0.000081	686.820216 ± 0.000083	686.820213 ± 0.000083	686.820214 ± 0.000089	686.820213 ± 0.000084
r_A	0.2034 ± 0.0027	0.2010 ± 0.0032	0.2022 ± 0.0030	0.2018 ± 0.0030	0.2019 ± 0.0029
r_b	0.02191 ± 0.00037	0.02138 ± 0.00045	0.02163 ± 0.00041	0.02153 ± 0.00041	0.02158 ± 0.00039
σ (mmag)	1.1283	1.1279	1.1279	1.1279	1.1279
Fitting for both LD coefficients					
$r_A + r_b$	0.2253 ± 0.0032	0.2217 ± 0.0042	0.2219 ± 0.0042	0.2217 ± 0.0041	0.2208 ± 0.0042
k	0.1077 ± 0.0004	0.1061 ± 0.0010	0.1053 ± 0.0015	0.1056 ± 0.0014	0.1053 ± 0.0015
i (deg.)	83.33 ± 0.31	83.82 ± 0.47	83.94 ± 0.47	83.90 ± 0.52	84.04 ± 0.53
u_A	0.470 ± 0.021	0.247 ± 0.127	-0.610 ± 0.619	0.826 ± 0.222	0.343 ± 0.061
v_A		0.38 ± 0.22	1.82 ± 1.05	0.55 ± 0.32	0.47 ± 0.27
T_0	686.820212 ± 0.000085	686.820217 ± 0.000088	686.820220 ± 0.000081	686.820219 ± 0.000085	686.820221 ± 0.000082
r_A	0.2034 ± 0.0029	0.2005 ± 0.0036	0.2008 ± 0.0036	0.2005 ± 0.0036	0.1998 ± 0.0037
r_b	0.02191 ± 0.00038	0.02126 ± 0.00056	0.02114 ± 0.00055	0.02117 ± 0.00060	0.02103 ± 0.00059
σ (mmag)	1.1283	1.1279	1.1276	1.1277	1.1276

Table A122. Final parameters of the fits to the light curves of WASP-3 from the JKTEBOP analysis, compared to those found by other authors. The light curve results from Paper III are reproduced and used in calculating the final results for the current work. Quantities without quoted uncertainties were not given by other authors but have been calculated from those parameters which were.

	Paper III (LT)	Paper III (Keele)	Paper III (IAC I)	This work (g -band)	This work (i -band)	This work (z -band)	This work (EPOCH)
$r_A + r_b$	0.223 ± 0.012	0.221 ± 0.031	0.220 ± 0.061	0.219 ± 0.014	0.2050 ± 0.0073	0.2382 ± 0.0094	0.2233 ± 0.0054
k	0.1094 ± 0.0028	0.1087 ± 0.0065	0.0950 ± 0.0154	0.1086 ± 0.0036	0.1017 ± 0.0013	0.11102 ± 0.00091	0.10676 ± 0.00081
i ($^\circ$)	84.2 ± 1.4	83.5 ± 3.1	83.6 ± 6.4	84.1 ± 1.5	85.5 ± 1.0	82.48 ± 0.86	83.61 ± 0.56
r_A	0.201 ± 0.011	0.199 ± 0.027	0.201 ± 0.058	0.197 ± 0.012	0.1861 ± 0.0065	0.2144 ± 0.0084	0.2018 ± 0.0047
r_b	0.0220 ± 0.0012	0.0217 ± 0.0035	0.0190 ± 0.0053	0.0214 ± 0.0019	0.01893 ± 0.00083	0.02380 ± 0.00110	0.02154 ± 0.00064
	This work (final)		Paper III				
$r_A + r_b$	0.2206 ± 0.0039		0.223 ± 0.011				
k	0.1074 ± 0.0012		0.1089 ± 0.0025				
i ($^\circ$)	83.72 ± 0.39		84.1 ± 1.3				
r_A	0.1994 ± 0.0033		0.201 ± 0.010				
r_b	0.02125 ± 0.00059		0.0218 ± 0.0011				
	Pollacco et al. (2008)	Gibson et al. (2008)	Damasso et al. (2010)	Simpson et al. (2010)	Tripathi et al. (2010)	Miller et al. (2010)	Christiansen et al. (2011)
$r_A + r_b$	0.212			0.2132		0.1983	0.2198
k	$0.103^{+0.001}_{-0.002}$	$0.1014^{+0.0010}_{-0.0008}$	0.1091 ± 0.0006	$0.1013^{+0.0014}_{-0.0013}$		$0.1025^{+0.0010}_{-0.0005}$	0.1051 ± 0.0124
i ($^\circ$)	$84.4^{+2.1}_{-0.8}$	$85.06^{+0.16}_{-0.15}$	81.24 ± 0.06	$84.93^{+1.32}_{-0.78}$	84.1	$87.0^{+1.0}_{-1.1}$	84.22 ± 0.81
r_A	0.192			$0.1933^{+0.0059}_{-0.0097}$		0.1799	0.1989 ± 0.0287
r_b	0.0197	0.0194		0.02132		0.01844	0.02090

Table A123. Derived physical properties of the WASP-3 system. The upper part of the table contains the individual results from this work; in each case $g_b = 25.1 \pm 1.2 \text{ m s}^{-2}$, $\rho_A = 0.495 \pm 0.024 \rho_\odot$ and $T'_{\text{eq}} = 2020 \pm 35 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	187.9 ± 6.6	186.9 ± 2.9	186.7 ± 2.7	186.0 ± 4.7	186.3 ± 4.0	185.0 ± 5.0
M_A (M _⊙)	1.297 ± 0.137	1.276 ± 0.060	1.273 ± 0.056	1.258 ± 0.095	1.264 ± 0.082	1.238 ± 0.101
R_A (R _⊙)	1.379 ± 0.055	1.371 ± 0.032	1.370 ± 0.032	1.365 ± 0.042	1.367 ± 0.038	1.358 ± 0.044
log g_A (cgs)	4.272 ± 0.020	4.270 ± 0.015	4.270 ± 0.015	4.268 ± 0.017	4.269 ± 0.016	4.266 ± 0.018
M_b (M _{Jup})	2.071 ± 0.156	2.048 ± 0.087	2.045 ± 0.084	2.029 ± 0.116	2.036 ± 0.104	2.008 ± 0.122
R_b (R _{Jup})	1.429 ± 0.057	1.421 ± 0.036	1.420 ± 0.035	1.415 ± 0.045	1.417 ± 0.041	1.407 ± 0.047
ρ_b (ρ _{Jup})	0.663 ± 0.048	0.667 ± 0.044	0.667 ± 0.044	0.670 ± 0.046	0.669 ± 0.045	0.674 ± 0.047
Θ	0.0717 ± 0.0035	0.0721 ± 0.0027	0.0722 ± 0.0027	0.0725 ± 0.0030	0.0724 ± 0.0029	0.0729 ± 0.0031
a (AU)	0.03214 ± 0.00113	0.03197 ± 0.00050	0.03194 ± 0.00046	0.03181 ± 0.00080	0.03187 ± 0.00069	0.03165 ± 0.00086
Age (Gyr)		2.1 ^{+0.6} _{-1.1}	2.1 ^{+0.4} _{-1.0}	2.0 ^{+1.1} _{-1.0}	1.7 ^{+1.1} _{-0.8}	2.5 ^{+1.2} _{-1.2}
	This work (final)	Paper III				
M_A (M _⊙)	1.26 ± 0.10 ± 0.02	1.26 ± 0.10 ± 0.02				
R_A (R _⊙)	1.366 ± 0.044 ± 0.008	1.377 ± 0.085 ± 0.009				
log g_A (cgs)	4.268 ± 0.018 ± 0.003	4.262 ± 0.044 ± 0.003				
ρ_A (ρ _⊙)	0.495 ± 0.024	0.484 ± 0.073				
M_b (M _{Jup})	2.03 ± 0.12 ± 0.03	2.06 ± 0.13 ± 0.03				
R_b (R _{Jup})	1.416 ± 0.047 ± 0.009	1.454 ± 0.083 ± 0.009				
g_b (m s ⁻¹)	25.1 ± 1.2	24.2 ± 2.6				
ρ_b (ρ _{Jup})	0.669 ± 0.047 ± 0.004	0.67 ± 0.11 ± 0.00				
T'_{eq} (K)	2020 ± 35	2028 ± 59				
Θ	0.0724 ± 0.0031 ± 0.0004	0.0715 ± 0.0048 ± 0.0004				
a (AU)	0.03185 ± 0.00086 ± 0.00020	0.03187 ± 0.00086 ± 0.00020				
Age (Gyr)	2.1 ^{+1.2} _{-1.2} ^{+0.4} _{-0.4}	2.1 ^{+1.5} _{-1.2} ^{+0.4} _{-0.3}				
	Pollacco et al. (2008)	Gibson et al. (2008)	Simpson et al. (2010)	Tripathi et al. (2010)	Miller et al. (2010)	Christiansen et al. (2011)
M_A (M _⊙)	1.24 ^{+0.06} _{-0.11}			1.24 adopted	1.20 ± 0.01	1.24 ^{+0.06} _{-0.11} adopted
R_A (R _⊙)	1.31 ^{+0.05} _{-0.12}		1.31 ^{+0.05} _{-0.07}		1.21 ^{+0.04} _{-0.03}	1.3540.056
log g_A (cgs)	4.30 ^{+0.07} _{-0.03}				4.33 ± 0.03	
ρ_A (ρ _⊙)	0.55 ^{+0.15} _{-0.05}				0.67 ^{+0.05} _{-0.06}	
M_b (M _{Jup})	1.76 ^{+0.08} _{-0.14}	1.76 ^{+0.08} _{-0.14}		2.04 ± 0.07	1.90 ^{+0.10} _{-0.09}	1.76 ^{+0.08} _{-0.14} adopted
R_b (R _{Jup})	1.31 ^{+0.07} _{-0.14}	1.29 ^{+0.05} _{-0.12}	1.29 ^{+0.05} _{-0.07}		1.20 ^{+0.05} _{-0.03}	1.3850.060
g_b (m s ⁻¹)	23.4 ^{+5.4} _{-2.1}	26.3 ^{+3.9} _{-2.3}			29.5 ^{+2.1} _{-2.6}	
ρ_b (ρ _{Jup})	0.78 ^{+0.28} _{-0.09}	0.82 ^{+0.14} _{-0.09}			1.08 ^{+0.11} _{-0.13}	
T'_{eq} (K)	1960 ⁺³³ ₋₇₆				1920 ⁺³² ₋₂₂	
Θ						
a (AU)	0.0317 ^{+0.0005} _{-0.0010}				0.0313 ± 0.0001	
Age (Gyr)	0.7 to 3.5				0.3 ^{+1.7} _{-0.3}	

Table A124. Derived physical properties of the XO-4 system. The upper part of the table contains the individual results from this work; in each case $g_b = 23.1_{-9.4}^{+2.5} \text{ m s}^{-2}$, $\rho_A = 0.358_{-0.160}^{+0.046} \rho_\odot$ and $T'_{\text{eq}} = 1630_{-36}^{+169} \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	146.0 ^{+5.2} _{-3.4}	144.7 ^{+3.1} _{-1.2}	144.5 ^{+4.1} _{-1.2}	144.0 ^{+4.2} _{-1.5}	144.3 ^{+4.3} _{-1.1}	143.4 ^{+1.3} _{-1.4}
M_A (M _⊙)	1.332 ^{+0.145} _{-0.090}	1.299 ^{+0.085} _{-0.030}	1.293 ^{+0.112} _{-0.032}	1.280 ^{+0.116} _{-0.039}	1.289 ^{+0.117} _{-0.028}	1.263 ^{+0.035} _{-0.036}
R_A (R _⊙)	1.549 ^{+0.390} _{-0.077}	1.536 ^{+0.371} _{-0.068}	1.534 ^{+0.382} _{-0.066}	1.529 ^{+0.385} _{-0.066}	1.532 ^{+0.385} _{-0.066}	1.522 ^{+0.326} _{-0.066}
log g_A (cgs)	4.183 ^{+0.034} _{-0.160}	4.179 ^{+0.033} _{-0.163}	4.178 ^{+0.034} _{-0.160}	4.177 ^{+0.034} _{-0.159}	4.178 ^{+0.033} _{-0.159}	4.175 ^{+0.034} _{-0.172}
M_b (M _{Jup})	1.585 ^{+0.128} _{-0.093}	1.558 ^{+0.089} _{-0.063}	1.553 ^{+0.106} _{-0.063}	1.544 ^{+0.109} _{-0.066}	1.550 ^{+0.110} _{-0.062}	1.530 ^{+0.064} _{-0.064}
R_b (R _{Jup})	1.303 ^{+0.390} _{-0.069}	1.292 ^{+0.385} _{-0.063}	1.290 ^{+0.385} _{-0.063}	1.286 ^{+0.384} _{-0.063}	1.289 ^{+0.385} _{-0.063}	1.280 ^{+0.381} _{-0.063}
ρ_b (ρ_{Jup})	0.67 ^{+0.11} _{-0.36}	0.68 ^{+0.11} _{-0.37}	0.68 ^{+0.11} _{-0.37}	0.68 ^{+0.11} _{-0.37}	0.68 ^{+0.11} _{-0.37}	0.68 ^{+0.11} _{-0.37}
Θ	0.1011 ^{+0.0068} _{-0.0237}	0.1019 ^{+0.0065} _{-0.0238}	0.1021 ^{+0.0065} _{-0.0239}	0.1024 ^{+0.0065} _{-0.0240}	0.1022 ^{+0.0065} _{-0.0239}	0.1029 ^{+0.0065} _{-0.0239}
a (AU)	0.05541 ^{+0.00196} _{-0.00126}	0.05494 ^{+0.00117} _{-0.00043}	0.05485 ^{+0.00154} _{-0.00045}	0.05468 ^{+0.00161} _{-0.00056}	0.05480 ^{+0.00162} _{-0.00040}	0.05443 ^{+0.00049} _{-0.00053}
Age (Gyr)		2.9 ^{+0.3} _{-0.5}	2.7 ^{+0.3} _{-0.4}	2.6 ^{+0.5} _{-0.3}	2.4 ^{+0.3} _{-0.4}	2.9 ^{+1.1} _{-0.3}
	This work (final)	Paper III	McCullough et al. (2008)	Narita et al. (2010)		
M_A (M _⊙)	1.285 ^{+0.117} _{-0.039} ^{+0.014} _{-0.022}	1.285 ^{+0.068} _{-0.036} ^{+0.016} _{-0.024}	1.32 ± 0.02	1.32 ± 0.02 adopted		
R_A (R _⊙)	1.531 ^{+0.386} _{-0.068} ^{+0.006} _{-0.009}	1.530 ^{+0.362} _{-0.069} ^{+0.006} _{-0.010}	1.55 ± 0.05			
log g_A (cgs)	4.177 ^{+0.034} _{-0.172} ^{+0.002} _{-0.002}	4.178 ^{+0.034} _{-0.169} ^{+0.002} _{-0.003}	4.18 ± 0.07			
ρ_A (ρ_\odot)	0.358 ^{+0.046} _{-0.160}	0.359 ^{+0.046} _{-0.160}				
M_b (M _{Jup})	1.547 ^{+0.110} _{-0.066} ^{+0.011} _{-0.017}	1.52 ^{+0.16} _{-0.15} ^{+0.01} _{-0.02}	1.72 ± 0.20	1.78 ± 0.08		
R_b (R _{Jup})	1.287 ^{+0.385} _{-0.063} ^{+0.005} _{-0.007}	1.288 ^{+0.385} _{-0.063} ^{+0.005} _{-0.008}	1.34 ± 0.048	1.33 ± 0.05		
g_b (ms ⁻¹)	23.1 ^{+2.5} _{-9.4}	22.8 ^{+3.2} _{-9.5}				
ρ_b (ρ_{Jup})	0.68 ^{+0.11} _{-0.37} ^{+0.00} _{-0.00}	0.71 ^{+0.13} _{-0.39} ^{+0.00} _{-0.00}				
T'_{eq} (K)	1630 ⁺¹⁶⁹ ₋₃₆	1630 ⁺¹⁶⁹ ₋₃₆				
Θ	0.1023 ^{+0.0065} _{-0.0240} ^{+0.0006} _{-0.0004}	0.101 ^{+0.011} _{-0.025} ^{+0.001} _{-0.000}				
a (AU)	0.05474 ^{+0.00162} _{-0.00056} ^{+0.00020} _{-0.00031}	0.05475 ^{+0.00094} _{-0.00051} ^{+0.00022} _{-0.00035}	0.0555 ± 0.0011			
Age (Gyr)	2.7 ^{+1.1} _{-0.5} ^{+0.2} _{-0.3}	2.7 ^{+0.6} _{-0.5} ^{+0.2} _{-0.3}	2.1 ± 0.6			

Table A125. Derived physical properties of the WASP-7 system. The upper part of the table contains the individual results from this work; in each case $g_b = 12.9 \pm 2.4 \text{ m s}^{-2}$, $\rho_A = 0.408 \pm 0.068 \rho_\odot$ and $T'_{\text{eq}} = 1502 \pm 47 \text{ K}$. The lower part of the table contains the final results and a comparison to published measurements.

	This work (dEB constraint)	This work (Claret models)	This work (Y ² models)	This work (Teramo models)	This work (VRSS models)	This work (DSEP models)
K_b (km s ⁻¹)	137.2 ± 3.7	135.8 ± 2.0	135.9 ± 2.0	135.4 ± 2.1	135.6 ± 1.9	134.8 ± 2.2
M_A (M _⊙)	1.332 ± 0.107	1.293 ± 0.056	1.297 ± 0.056	1.282 ± 0.060	1.288 ± 0.053	1.266 ± 0.063
R_A (R _⊙)	1.484 ± 0.101	1.469 ± 0.092	1.471 ± 0.093	1.465 ± 0.094	1.467 ± 0.092	1.459 ± 0.094
log g_A (cgs)	4.220 ± 0.046	4.216 ± 0.046	4.216 ± 0.045	4.215 ± 0.045	4.215 ± 0.046	4.213 ± 0.046
M_b (M _{Jup})	0.99 ± 0.14	0.97 ± 0.13	0.97 ± 0.13	0.96 ± 0.13	0.96 ± 0.13	0.95 ± 0.13
R_b (R _{Jup})	1.379 ± 0.099	1.366 ± 0.093	1.367 ± 0.093	1.362 ± 0.093	1.364 ± 0.093	1.356 ± 0.093
ρ_b (ρ_{Jup})	0.352 ± 0.086	0.355 ± 0.087	0.355 ± 0.086	0.356 ± 0.087	0.356 ± 0.087	0.358 ± 0.087
Θ	0.067 ± 0.010	0.068 ± 0.010	0.068 ± 0.010	0.068 ± 0.010	0.068 ± 0.010	0.068 ± 0.010
a (AU)	0.06259 ± 0.00168	0.06198 ± 0.00089	0.06204 ± 0.00089	0.06181 ± 0.00096	0.06189 ± 0.00085	0.06154 ± 0.00102
Age (Gyr)		2.6 ^{+0.5} _{-0.9}	2.5 ^{+0.4} _{-0.8}	2.4 ^{+0.5} _{-0.8}	2.1 ^{+0.5} _{-0.6}	2.7 ^{+0.8} _{-0.5}
	This work (final)	Southworth et al. (2011)	Hellier et al. (2009)			
M_A (M _⊙)	1.285 ± 0.063 ± 0.019	1.287 ± 0.064 ± 0.021	1.28 ^{+0.09} _{-0.19}			
R_A (R _⊙)	1.466 ± 0.094 ± 0.007	1.466 ± 0.094 ± 0.008	1.236 ^{+0.059} _{-0.046}			
log g_A (cgs)	4.215 ± 0.046 ± 0.002	4.215 ± 0.046 ± 0.002	4.363 ^{+0.010} _{-0.047}			
ρ_A (ρ_\odot)	0.408 ± 0.068	0.408 ± 0.069				
M_b (M _{Jup})	0.96 ± 0.13 ± 0.01	0.96 ± 0.13 ± 0.01	0.96 ^{+0.12} _{-0.18}			
R_b (R _{Jup})	1.363 ± 0.093 ± 0.007	1.364 ± 0.093 ± 0.007	0.915 ^{+0.046} _{-0.040}			
g_b (m s ⁻¹)	12.9 ± 2.4	12.8 ± 2.4	26.4 ^{+4.4} _{-4.0}			
ρ_b (ρ_{Jup})	0.356 ± 0.087 ± 0.002	0.380 ± 0.093 ± 0.002	1.26 ^{+0.25} _{-0.21}			
T'_{eq} (K)	1502 ± 47	1502 ± 47	1379 ⁺³⁵ ₋₂₃			
Θ	0.068 ± 0.010 ± 0.000	0.068 ± 0.010 ± 0.000				
a (AU)	0.0619 ± 0.0010 ± 0.0003	0.0619 ± 0.0010 ± 0.0003	0.0618 ^{+0.0014} _{-0.0033}			
Age (Gyr)	2.5 ^{+0.8 +0.2} _{-0.9 -0.4}	2.5 ^{+0.8 +0.2} _{-0.9 -0.3}				

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