

# Homogeneous studies of transiting extrasolar planets – I. Light curve analyses

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## APPENDIX A: RESULTS OF THE LIGHT CURVE ANALYSES

The tables in this section contain the detailed results of the modelling of each light curve. 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 table for completeness.

**Table A1.** Parameters of the JKTEBOP best fits of the TrES-1 light curve from Winn, Holman & Roussanova (2007c) ( $N_{\text{obs}} = 1149$ ) for different treatment of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 3000. The perturbations of the LD coefficients are discussed in Section 2.3.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	$0.1082^{+0.0018}_{-0.0004}$	$0.1078^{+0.0015}_{-0.0004}$	$0.1078^{+0.0016}_{-0.0005}$	$0.1077^{+0.0016}_{-0.0004}$	
$k$	$0.13444^{+0.00059}_{-0.00038}$	$0.13568 \pm 0.00039$	$0.13533 \pm 0.00040$	$0.13566 \pm 0.00041$	
$i$ (deg.)	$89.85^{+0.15}_{-0.92}$	$89.96^{+0.04}_{-0.90}$	$89.91^{+0.09}_{-0.91}$	$89.99^{+0.01}_{-0.97}$	
$u_A$	0.53 fixed	0.28 fixed	0.14 fixed	0.61 fixed	
$v_A$		0.29 fixed	0.52 fixed	0.26 fixed	
$T_0$	$898.87336 \pm 0.00009$	$898.87336 \pm 0.00008$	$898.87336 \pm 0.00008$	$898.87336 \pm 0.00008$	
$r_A$	$0.0954^{+0.0004}_{-0.0015}$	$0.0949^{+0.0004}_{-0.0013}$	$0.0950^{+0.0004}_{-0.0014}$	$0.0948^{+0.0004}_{-0.0014}$	
$r_b$	$0.01283^{+0.00007}_{-0.00027}$	$0.01288^{+0.00007}_{-0.00020}$	$0.01285^{+0.00008}_{-0.00023}$	$0.01286^{+0.00008}_{-0.00023}$	
$\sigma$ (mmag)	1.6785	1.6420	1.6478	1.6425	
$\chi^2_{\text{red}}$	1.0544	1.0085	1.0157	1.0091	
Fitting for one LD coefficient					
$r_A + r_b$	$0.1097 \pm 0.0015$	$0.1087 \pm 0.0016$	$0.1094 \pm 0.0019$	$0.1091 \pm 0.0017$	$0.1091 \pm 0.0017$
$k$	$0.13802 \pm 0.00073$	$0.13654 \pm 0.00070$	$0.13729 \pm 0.00073$	$0.13693 \pm 0.00075$	$0.13691 \pm 0.00070$
$i$ (deg.)	$88.69 \pm 0.66$	$89.18 \pm 0.65$	$88.86 \pm 0.54$	$88.99 \pm 0.65$	$88.99 \pm 0.64$
$u_A$	$0.368 \pm 0.029$	$0.245 \pm 0.027$	$0.071 \pm 0.030$	$0.558 \pm 0.037$	$0.331 \pm 0.024$
$v_A$		0.29 perturbed	0.52 perturbed	0.26 perturbed	0.20 perturbed
$T_0$	$898.87336 \pm 0.00010$	$898.87336 \pm 0.00009$	$898.87336 \pm 0.00008$	$898.87336 \pm 0.00008$	$898.87336 \pm 0.00008$
$r_A$	$0.0951 \pm 0.0011$	$0.0956 \pm 0.0013$	$0.0962 \pm 0.0016$	$0.0959 \pm 0.0014$	$0.0960 \pm 0.0014$
$r_b$	$0.01293 \pm 0.00020$	$0.01306 \pm 0.00024$	$0.01321 \pm 0.00029$	$0.01314 \pm 0.00026$	$0.01314 \pm 0.00025$
$\sigma$ (mmag)	1.6386	1.6408	1.6392	1.6397	1.6398
$\chi^2_{\text{red}}$	1.0052	1.0078	1.0059	1.0065	1.0066
Fitting for two LD coefficients					
$r_A + r_b$		$0.1097 \pm 0.0020$	$0.1097 \pm 0.0018$	$0.1098 \pm 0.0019$	$0.1096 \pm 0.0018$
$k$		$0.1380 \pm 0.0010$	$0.1382 \pm 0.0012$	$0.1382 \pm 0.0013$	$0.1382 \pm 0.0012$
$i$ (deg.)		$88.70 \pm 0.65$	$88.69 \pm 0.52$	$88.66 \pm 0.53$	$88.67 \pm 0.48$
$u_A$		$0.37 \pm 0.08$	$0.45 \pm 0.41$	$0.34 \pm 0.18$	$0.38 \pm 0.05$
$v_A$		$0.00 \pm 0.17$	$-0.13 \pm 0.71$	$-0.04 \pm 0.24$	$-0.05 \pm 0.19$
$T_0$		$898.87336 \pm 0.00008$	$898.87336 \pm 0.00008$	$898.87336 \pm 0.00008$	$898.87336 \pm 0.00009$
$r_A$		$0.0964 \pm 0.0016$	$0.0964 \pm 0.0015$	$0.0964 \pm 0.0016$	$0.0963 \pm 0.0015$
$r_b$		$0.01330 \pm 0.00031$	$0.01332 \pm 0.00032$	$0.01332 \pm 0.00032$	$0.01332 \pm 0.00030$
$\sigma$ (mmag)		1.6387	1.6386	1.6386	1.6386
$\chi^2_{\text{red}}$		1.0061	1.0060	1.0060	1.0060

**Table A2.** Parameters of the JKTEBOP best fits of the TrES-2 light curve ( $z$  band,  $N_{\text{obs}} = 1033$ ) from Holman et al. (2007b) for different treatments of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 3000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	$0.1468 \pm 0.0020$	$0.1475 \pm 0.0020$	$0.1479 \pm 0.0020$	$0.1478 \pm 0.0021$	
$k$	$0.12681 \pm 0.00086$	$0.12537 \pm 0.00086$	$0.12537 \pm 0.00087$	$0.12532 \pm 0.00089$	
$i$ (deg.)	$83.61 \pm 0.12$	$83.58 \pm 0.12$	$83.54 \pm 0.12$	$83.55 \pm 0.12$	
$u_A$	0.49 fixed	0.22 fixed	0.06 fixed	0.57 fixed	
$v_A$		0.31 fixed	0.56 fixed	0.27 fixed	
$T_0$	$989.75282 \pm 0.00017$	$989.75298 \pm 0.00018$	$989.75279 \pm 0.00017$	$989.75279 \pm 0.00018$	
$r_A$	$0.1303 \pm 0.0017$	$0.1310 \pm 0.0017$	$0.1314 \pm 0.0018$	$0.1313 \pm 0.0017$	
$r_b$	$0.01653 \pm 0.00028$	$0.01643 \pm 0.00030$	$0.01647 \pm 0.00030$	$0.01645 \pm 0.00031$	
$\sigma$ (mmag)	1.4941	1.4940	1.4942	1.4941	
$\chi^2_{\text{red}}$	1.0050	1.0048	1.0052	1.0050	
Fitting for one LD coefficient					
$r_A + r_b$	$0.1453 \pm 0.0035$	$0.1462 \pm 0.0036$	$0.1461 \pm 0.0038$	$0.1462 \pm 0.0037$	$0.1455 \pm 0.0037$
$k$	$0.1281 \pm 0.0025$	$0.1263 \pm 0.0028$	$0.1269 \pm 0.0026$	$0.1265 \pm 0.0029$	$0.1274 \pm 0.0026$
$i$ (deg.)	$83.75 \pm 0.31$	$83.69 \pm 0.37$	$83.71 \pm 0.37$	$83.70 \pm 0.38$	$83.75 \pm 0.36$
$u_A$	$0.61 \pm 0.22$	$0.33 \pm 0.30$	$0.21 \pm 0.27$	$0.69 \pm 0.32$	$0.55 \pm 0.26$
$v_A$		0.31 perturbed	0.56 perturbed	0.27 perturbed	0.10 perturbed
$T_0$	$989.75279 \pm 0.00018$	$989.75279 \pm 0.00018$	$989.75279 \pm 0.00017$	$989.75279 \pm 0.00018$	$989.75279 \pm 0.00018$
$r_A$	$0.1288 \pm 0.0032$	$0.1298 \pm 0.0033$	$0.1296 \pm 0.0034$	$0.1298 \pm 0.0034$	$0.1291 \pm 0.0033$
$r_b$	$0.01650 \pm 0.00040$	$0.01640 \pm 0.00038$	$0.01645 \pm 0.00041$	$0.01643 \pm 0.00041$	$0.01645 \pm 0.00039$
$\sigma$ (mmag)	1.4939	1.4939	1.4939	1.4939	1.4939
$\chi^2_{\text{red}}$	1.0057	1.0057	1.0057	1.0057	1.0057
Fitting for two LD coefficients					
$r_A + r_b$		$0.1431 \pm 0.0053$	$0.1451 \pm 0.0049$	$0.1428 \pm 0.0064$	$0.1370 \pm 0.0059$
$k$		$0.1316 \pm 0.0073$	$0.1282 \pm 0.0048$	$0.1322 \pm 0.0086$	$0.1409 \pm 0.0090$
$i$ (deg.)		$83.91 \pm 0.41$	$83.77 \pm 0.39$	$83.91 \pm 0.44$	$84.29 \pm 0.39$
$u_A$		$1.07 \pm 0.77$	$0.62 \pm 1.27$	$0.41 \pm 0.58$	$1.46 \pm 0.44$
$v_A$		$-0.50 \pm 0.95$	$-0.01 \pm 1.83$	$-0.60 \pm 1.21$	$-1.17 \pm 0.68$
$T_0$		$989.75280 \pm 0.0018$	$989.75279 \pm 0.00016$	$989.75279 \pm 0.00018$	$989.75278 \pm 0.00018$
$r_A$		$0.1264 \pm 0.0050$	$0.1286 \pm 0.0047$	$0.1261 \pm 0.0065$	$0.1201 \pm 0.0059$
$r_b$		$0.01664 \pm 0.00050$	$0.01649 \pm 0.00043$	$0.01667 \pm 0.00052$	$0.01692 \pm 0.00047$
$\sigma$ (mmag)		1.4938	1.4939	1.4937	1.4937
$\chi^2_{\text{red}}$		1.0065	1.0066	1.0064	1.0061

**Table A3.** Parameters of the JKTEBOP best fits of the XO-1 light curve from the FLWO 1.2-m telescope (Holman et al. 2006) ( $z$  band,  $N_{\text{obs}} = 821$ ) for different treatment of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 3000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
All LD coefficients fixed					
$r_A + r_b$	$0.1003 \pm 0.0019$	$0.1004 \pm 0.0017$	$0.1012 \pm 0.0019$	$0.1010 \pm 0.0018$	
$k$	$0.1317 \pm 0.0007$	$0.1327 \pm 0.0005$	$0.1331 \pm 0.0006$	$0.1330 \pm 0.0006$	
$i$ (deg.)	$88.94 \pm 0.57$	$88.87 \pm 0.42$	$88.66 \pm 0.37$	$88.71 \pm 0.38$	
$u_A$	0.49 fixed	0.23 fixed	0.07 fixed	0.57 fixed	
$v_A$		0.31 fixed	0.55 fixed	0.27 fixed	
$T_0$	$875.92236 \pm 0.00010$	$875.92236 \pm 0.00011$	$875.92235 \pm 0.00011$	$875.92236 \pm 0.00011$	
$r_A$	$0.0886 \pm 0.0016$	$0.0886 \pm 0.0015$	$0.0893 \pm 0.0016$	$0.0892 \pm 0.0015$	
$r_b$	$0.01167 \pm 0.00027$	$0.01176 \pm 0.00023$	$0.01189 \pm 0.00026$	$0.01186 \pm 0.00025$	
$\sigma$ (mmag)	1.5081	1.4816	1.4841	1.4826	
$\chi^2_{\text{red}}$	1.0568	1.0179	1.0217	1.0195	
Fitting for one LD coefficient					
$r_A + r_b$	$0.1029 \pm 0.0017$	$0.1004 \pm 0.0019$	$0.1022 \pm 0.0018$	$0.1017 \pm 0.0020$	$0.1025 \pm 0.0018$
$k$	$0.1347 \pm 0.0007$	$0.1327 \pm 0.0009$	$0.1338 \pm 0.0008$	$0.1334 \pm 0.0009$	$0.1342 \pm 0.0008$
$i$ (deg.)	$88.26 \pm 0.28$	$88.87 \pm 0.54$	$88.44 \pm 0.33$	$88.55 \pm 0.38$	$88.36 \pm 0.30$
$u_A$	$0.358 \pm 0.025$	$0.230 \pm 0.031$	$0.042 \pm 0.030$	$0.557 \pm 0.036$	$0.430 \pm 0.033$
$v_A$		0.31 perturbed	0.55 perturbed	0.27 perturbed	0.10 perturbed
$T_0$	$883.80543 \pm 0.00011$	$883.80542 \pm 0.00010$	$883.80542 \pm 0.00010$	$883.80542 \pm 0.00011$	$883.80542 \pm 0.00010$
$r_A$	$0.0906 \pm 0.0015$	$0.0886 \pm 0.0017$	$0.0901 \pm 0.0016$	$0.0898 \pm 0.0017$	$0.0903 \pm 0.0015$
$r_b$	$0.01221 \pm 0.00025$	$0.01176 \pm 0.00029$	$0.01206 \pm 0.00027$	$0.01198 \pm 0.00029$	$0.01213 \pm 0.00026$
$\sigma$ (mmag)	1.4849	1.4832	1.4824	1.4824	1.4838
$\chi^2_{\text{red}}$	1.0244	1.0218	1.0206	1.0206	1.0228
Fitting for two LD coefficients					
$r_A + r_b$		$0.1001 \pm 0.0019$	$0.1007 \pm 0.0020$	$0.1004 \pm 0.0019$	$0.1003 \pm 0.0019$
$k$		$0.1320 \pm 0.0013$	$0.1310 \pm 0.0021$	$0.1316 \pm 0.0017$	$0.1314 \pm 0.0016$
$i$ (deg.)		$89.03 \pm 0.72$	$89.06 \pm 0.74$	$89.05 \pm 0.73$	$89.08 \pm 0.72$
$u_A$		$0.17 \pm 0.08$	$-0.86 \pm 0.63$	$0.84 \pm 0.25$	$0.86 \pm 0.23$
$v_A$		$0.46 \pm 0.19$	$2.17 \pm 1.13$	$0.63 \pm 0.31$	$0.65 \pm 0.30$
$T_0$		$883.80542 \pm 0.00011$	$883.80542 \pm 0.00011$	$883.80542 \pm 0.00010$	$883.80542 \pm 0.00011$
$r_A$		$0.0885 \pm 0.0016$	$0.0890 \pm 0.0018$	$0.0887 \pm 0.0017$	$0.0887 \pm 0.0016$
$r_b$		$0.01167 \pm 0.00031$	$0.01166 \pm 0.00031$	$0.01167 \pm 0.00030$	$0.01165 \pm 0.00029$
$\sigma$ (mmag)		1.4809	1.4807	1.4808	1.4808
$\chi^2_{\text{red}}$		1.0195	1.0192	1.0193	1.0193

**Table A4.** Parameters of the JKTEBOP best fits of the WASP-1 light curve from Shporer et al. (2007) (*I* band,  $N_{\text{obs}} = 583$ ) for different treatment of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 4000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.2036 \pm 0.0104$	$0.1986 \pm 0.0102$	$0.2032 \pm 0.0106$	$0.1978 \pm 0.0096$	$0.2027 \pm 0.0114$
$k$	$0.1042 \pm 0.0011$	$0.1031 \pm 0.0012$	$0.1038 \pm 0.0012$	$0.1025 \pm 0.0013$	$0.1037 \pm 0.0012$
$i$ (deg.)	$86.0 \pm 1.6$	$87.0 \pm 2.4$	$86.1 \pm 2.2$	$87.3 \pm 2.3$	$86.2 \pm 2.3$
$u_A$	$0.215 \pm 0.070$	$0.043 \pm 0.082$	$-0.114 \pm 0.079$	$0.644 \pm 0.088$	$0.158 \pm 0.074$
$v_A$		0.35 perturbed	0.55 perturbed	0.60 perturbed	0.20 perturbed
$T_0$	$13.3127 \pm 0.0004$	$13.3127 \pm 0.0004$	$13.3127 \pm 0.0004$	$13.3127 \pm 0.0004$	$13.3127 \pm 0.0004$
$r_A$	$0.1844 \pm 0.0093$	$0.1800 \pm 0.0092$	$0.1841 \pm 0.0095$	$0.1794 \pm 0.0086$	$0.1837 \pm 0.0102$
$r_b$	$0.0192 \pm 0.0011$	$0.0186 \pm 0.0011$	$0.0191 \pm 0.0011$	$0.0184 \pm 0.0010$	$0.0190 \pm 0.0012$
$\sigma$ (mmag)	2.1653	2.1664	2.1655	2.1665	2.1656
$\chi^2_{\text{red}}$	1.0016	1.0032	1.0020	1.0034	1.0022
Fitting for two LD coefficients					
$r_A + r_b$		$0.2038 \pm 0.0106$	$0.2035 \pm 0.0106$	$0.2035 \pm 0.0109$	$0.2034 \pm 0.0110$
$k$		$0.1044 \pm 0.0017$	$0.1044 \pm 0.0019$	$0.1044 \pm 0.0019$	$0.1043 \pm 0.0019$
$i$ (deg.)		$85.9 \pm 1.9$	$86.0 \pm 1.2$	$86.0 \pm 1.9$	$86.0 \pm 2.2$
$u_A$		$0.29 \pm 0.32$	$0.41 \pm 1.17$	$0.14 \pm 0.44$	$0.23 \pm 0.17$
$v_A$		$-0.13 \pm 0.54$	$-0.32 \pm 1.90$	$-0.12 \pm 0.68$	$-0.05 \pm 0.54$
$T_0$		$13.3127 \pm 0.0004$	$13.3127 \pm 0.0004$	$13.3127 \pm 0.0004$	$13.3127 \pm 0.0004$
$r_A$		$0.1845 \pm 0.0094$	$0.1842 \pm 0.0094$	$0.1843 \pm 0.0098$	$0.1842 \pm 0.0099$
$r_b$		$0.0193 \pm 0.0013$	$0.0192 \pm 0.0013$	$0.0192 \pm 0.0013$	$0.0192 \pm 0.0013$
$\sigma$ (mmag)		2.1653	2.1653	2.1653	2.1653
$\chi^2_{\text{red}}$		1.0032	1.0033	1.0033	1.0033

**Table A5.** Parameters of the JKTEBOP best fits of the WASP-1 light curve from Charbonneau et al. (2007) (*z* band,  $N_{\text{obs}} = 657$ ) for different treatment of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 0000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.1941 \pm 0.0065$	$0.1918 \pm 0.0052$	$0.1922 \pm 0.0057$	$0.1912 \pm 0.0047$	$0.1919 \pm 0.0052$
$k$	$0.10479 \pm 0.00097$	$0.10405 \pm 0.00093$	$0.10429 \pm 0.00093$	$0.10411 \pm 0.00092$	$0.10402 \pm 0.00089$
$i$ (deg.)	$88.0 \pm 1.9$	$89.3 \pm 1.6$	$88.8 \pm 1.7$	$89.6 \pm 1.6$	$89.2 \pm 1.6$
$u_A$	$0.211 \pm 0.54$	$0.055 \pm 0.060$	$-0.141 \pm 0.058$	$0.408 \pm 0.059$	$0.143 \pm 0.061$
$v_A$		0.32 perturbed	0.60 perturbed	0.28 perturbed	0.28 perturbed
$T_0$	$5.7520 \pm 0.0003$	$5.7520 \pm 0.0003$	$5.7520 \pm 0.0003$	$5.7520 \pm 0.0003$	$5.7520 \pm 0.0003$
$r_A$	$0.1757 \pm 0.0058$	$0.1737 \pm 0.0047$	$0.1740 \pm 0.0050$	$0.1732 \pm 0.0042$	$0.1738 \pm 0.0046$
$r_b$	$0.01841 \pm 0.00071$	$0.01807 \pm 0.00056$	$0.01815 \pm 0.00062$	$0.01803 \pm 0.00050$	$0.01808 \pm 0.00054$
$\sigma$ (mmag)	1.8084	1.8096	1.8086	1.8089	1.8088
$\chi^2_{\text{red}}$	0.9616	0.9629	0.9618	0.9621	0.9621
Fitting for two LD coefficients					
$r_A + r_b$		$0.1922 \pm 0.0057$	$0.1916 \pm 0.0057$	$0.1921 \pm 0.0056$	$0.1915 \pm 0.0055$
$k$		$0.10465 \pm 0.00114$	$0.10447 \pm 0.00131$	$0.10456 \pm 0.00128$	$0.10446 \pm 0.00134$
$i$ (deg.)		$88.6 \pm 1.8$	$88.9 \pm 1.7$	$88.7 \pm 1.8$	$88.9 \pm 1.7$
$u_A$		$0.21 \pm 0.20$	$0.06 \pm 0.88$	$0.25 \pm 0.33$	$0.19 \pm 0.12$
$v_A$		$0.01 \pm 0.36$	$0.27 \pm 1.47$	$0.06 \pm 0.47$	$0.07 \pm 0.41$
$T_0$		$5.7520 \pm 0.0003$	$5.7520 \pm 0.0003$	$5.7520 \pm 0.0003$	$5.7520 \pm 0.0003$
$r_A$		$0.1740 \pm 0.0051$	$0.1735 \pm 0.0051$	$0.0050 \pm 0.0050$	$0.1734 \pm 0.0050$
$r_b$		$0.01820 \pm 0.00064$	$0.01812 \pm 0.00065$	$0.00062 \pm 0.00062$	$0.01811 \pm 0.00059$
$\sigma$ (mmag)		1.8084	1.8085	1.8084	1.8084
$\chi^2_{\text{red}}$		0.9631	0.9632	0.9631	0.9631

**Table A6.** Parameters of the JKTEBOP best fits of the WASP-2 light curve from Charbonneau et al. (2007) ( $z$  band,  $N_{\text{obs}} = 426$ ) for different treatment of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD  $- 245\,4000$ . For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.1403 \pm 0.0058$	$0.1409 \pm 0.0059$	$0.1408 \pm 0.0060$	$0.1409 \pm 0.0060$	$0.1409 \pm 0.0060$
$k$	$0.1322 \pm 0.0014$	$0.1310 \pm 0.0015$	$0.1315 \pm 0.0015$	$0.1313 \pm 0.0015$	$0.1313 \pm 0.0016$
$i$ (deg.)	$84.86 \pm 0.45$	$84.83 \pm 0.46$	$84.84 \pm 0.47$	$84.83 \pm 0.48$	$84.83 \pm 0.47$
$u_A$	$0.476 \pm 0.147$	$0.240 \pm 0.171$	$0.128 \pm 0.163$	$0.594 \pm 0.169$	$0.369 \pm 0.167$
$v_A$		0.30 perturbed	0.53 perturbed	0.25 perturbed	0.20 perturbed
$T_0$	$8.73204 \pm 0.00021$	$8.73205 \pm 0.00022$	$8.73205 \pm 0.00022$	$8.73205 \pm 0.00022$	$8.73205 \pm 0.00021$
$r_A$	$0.1239 \pm 0.0050$	$0.1246 \pm 0.0050$	$0.1244 \pm 0.0051$	$0.1245 \pm 0.0052$	$0.1246 \pm 0.0052$
$r_b$	$0.01637 \pm 0.00079$	$0.01632 \pm 0.00079$	$0.01636 \pm 0.00083$	$0.01635 \pm 0.00081$	$0.01635 \pm 0.00081$
$\sigma$ (mmag)	1.8891	1.8891	1.8891	1.8891	1.8891
$\chi^2_{\text{red}}$	0.9988	0.9989	0.9989	0.9989	0.9989
Fitting for two LD coefficients					
$r_A + r_b$		$0.1405 \pm 0.0074$	$0.1404 \pm 0.0066$	$0.1404 \pm 0.0071$	$0.1404 \pm 0.0075$
$k$		$0.1318 \pm 0.0099$	$0.1321 \pm 0.0082$	$0.1322 \pm 0.0093$	$0.1321 \pm 0.0090$
$i$ (deg.)		$84.84 \pm 0.47$	$84.85 \pm 0.41$	$84.85 \pm 0.41$	$84.85 \pm 0.46$
$u_A$		$0.40 \pm 1.63$	$0.43 \pm 3.24$	$0.47 \pm 1.19$	$0.46 \pm 0.67$
$v_A$		$0.10 \pm 2.20$	$0.06 \pm 5.11$	$0.00 \pm 2.22$	$0.02 \pm 1.54$
$T_0$		$8.73205 \pm 0.00021$	$8.73205 \pm 8.73205$	$8.73204 \pm 0.00021$	$8.73204 \pm 0.00021$
$r_A$		$0.1241 \pm 0.0071$	$0.1240 \pm 0.0063$	$0.1240 \pm 0.0069$	$0.1240 \pm 0.0072$
$r_b$		$0.01636 \pm 0.00097$	$0.01639 \pm 0.00091$	$0.01639 \pm 0.00088$	$0.01638 \pm 0.00095$
$\sigma$ (mmag)		1.8891	1.8891	1.8891	1.8891
$\chi^2_{\text{red}}$		1.0012	1.0012	1.0012	1.0012

**Table A7.** Parameters of the JKTEBOP best fits of the FLWO light curve of HAT-P-1 from Winn et al. (2007e) for different treatments of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD  $- 245\,3000$ . For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.1025 \pm 0.0029$	$0.1026 \pm 0.0031$	$0.1026 \pm 0.0030$	$0.1026 \pm 0.0031$	$0.1026 \pm 0.0029$
$k$	$0.11328 \pm 0.00082$	$0.11217 \pm 0.00092$	$0.1126 \pm 0.00092$	$0.1124 \pm 0.00087$	$0.1128 \pm 0.00091$
$i$ (deg.)	$86.36 \pm 0.22$	$86.38 \pm 0.26$	$86.37 \pm 0.25$	$86.37 \pm 0.25$	$86.37 \pm 0.23$
$u_A$	$0.485 \pm 0.063$	$0.273 \pm 0.076$	$0.117 \pm 0.070$	$0.629 \pm 0.075$	$0.439 \pm 0.067$
$v_A$		0.30 perturbed	0.58 perturbed	0.28 perturbed	0.10 perturbed
$T_0$	$997.79205 \pm 0.00030$	$997.79205 \pm 0.00030$	$997.79205 \pm 0.00026$	$997.79202 \pm 0.00028$	$997.79206 \pm 0.00030$
$r_A$	$0.0920 \pm 0.0025$	$0.0922 \pm 0.0028$	$0.0922 \pm 0.0026$	$0.0923 \pm 0.0027$	$0.0922 \pm 0.0026$
$r_b$	$0.01043 \pm 0.00035$	$0.01038 \pm 0.00038$	$0.01038 \pm 0.00037$	$0.01037 \pm 0.00037$	$0.01040 \pm 0.00036$
$\sigma$ (mmag)	2.1309	2.1320	2.1316	2.1318	2.1314
Fitting for two LD coefficients					
$r_A + r_b$		$0.1024 \pm 0.0018$	$0.1027 \pm 0.0017$	$0.1026 \pm 0.0018$	$0.1028 \pm 0.0018$
$k$		$0.1221 \pm 0.0037$	$0.1208 \pm 0.0028$	$0.1212 \pm 0.0031$	$0.1210 \pm 0.0031$
$i$ (deg.)		$86.27 \pm 0.13$	$86.22 \pm 0.12$	$86.24 \pm 0.12$	$86.22 \pm 0.13$
$u_A$		$1.79 \pm 0.39$	$3.62 \pm 0.89$	$-0.31 \pm 0.21$	$1.18 \pm 0.23$
$v_A$		$-1.66 \pm 0.46$	$-4.73 \pm 1.31$	$-1.73 \pm 0.49$	$-1.29 \pm 0.37$
$T_0$		$997.79206 \pm 0.00029$	$997.79208 \pm 0.00028$	$997.79208 \pm 0.00028$	$997.79208 \pm 0.00028$
$r_A$		$0.0913 \pm 0.0015$	$0.0916 \pm 0.0015$	$0.0915 \pm 0.0016$	$0.0917 \pm 0.0016$
$r_b$		$0.01115 \pm 0.00039$	$0.01106 \pm 0.00031$	$0.01109 \pm 0.00034$	$0.01109 \pm 0.00036$
$\sigma$ (mmag)		2.1248	2.1248	2.1249	2.1248

**Table A8.** Parameters of the JKTEBOP best fits of the Lick light curve of HAT-P-1 from Winn et al. (2007e) for different treatments of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 3000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.1065 \pm 0.0028$	$0.1055 \pm 0.0027$	$0.1056 \pm 0.0030$	$0.1056 \pm 0.0029$	$0.1056 \pm 0.0030$
$k$	$0.11108 \pm 0.00062$	$0.10992 \pm 0.00059$	$0.11031 \pm 0.00066$	$0.11012 \pm 0.00068$	$0.11054 \pm 0.00066$
$i$ (deg.)	$86.01 \pm 0.22$	$86.11 \pm 0.22$	$86.10 \pm 0.24$	$86.10 \pm 0.22$	$86.09 \pm 0.23$
$u_A$	$0.339 \pm 0.076$	$0.124 \pm 0.081$	$-0.022 \pm 0.081$	$0.486 \pm 0.083$	$0.304 \pm 0.079$
$v_A$		0.30 perturbed	0.58 perturbed	0.28 perturbed	0.10 perturbed
$T_0$	$997.79357 \pm 0.00028$	$997.79355 \pm 0.00026$	$997.79355 \pm 0.00026$	$997.79357 \pm 0.00028$	$997.79356 \pm 0.00026$
$r_A$	$0.0959 \pm 0.0024$	$0.0950 \pm 0.0024$	$0.0951 \pm 0.0027$	$0.0952 \pm 0.0026$	$0.0951 \pm 0.0027$
$r_b$	$0.01065 \pm 0.00031$	$0.01045 \pm 0.00031$	$0.01049 \pm 0.00034$	$0.01048 \pm 0.00032$	$0.01051 \pm 0.00034$
$\sigma$ (mmag)	1.9210	1.9207	1.9208	1.9207	1.9209
Fitting for two LD coefficients					
$r_A + r_b$		$0.1019 \pm 0.0051$	$0.1079 \pm 0.0055$	$0.1068 \pm 0.0052$	$0.1064 \pm 0.0054$
$k$		$0.1023 \pm 0.0044$	$0.1029 \pm 0.0027$	$0.1021 \pm 0.0034$	$0.1024 \pm 0.0039$
$i$ (deg.)		$86.68 \pm 0.40$	$86.27 \pm 0.35$	$86.31 \pm 0.32$	$86.41 \pm 0.36$
$u_A$		$-1.20 \pm 1.12$	$-4.34 \pm 2.03$	$2.25 \pm 0.95$	$-0.26 \pm 0.41$
$v_A$		$2.63 \pm 1.79$	$7.78 \pm 3.34$	$2.93 \pm 1.51$	$2.13 \pm 1.16$
$T_0$		$997.79359 \pm 0.00026$	$997.79360 \pm 0.00028$	$997.79358 \pm 0.00024$	$997.79360 \pm 0.00027$
$r_A$		$0.0924 \pm 0.0047$	$0.0978 \pm 0.0050$	$0.0970 \pm 0.0049$	$0.0965 \pm 0.0050$
$r_b$		$0.00945 \pm 0.00051$	$0.01007 \pm 0.00042$	$0.01000 \pm 0.00039$	$0.00988 \pm 0.00046$
$\sigma$ (mmag)		1.9190	1.9194	1.9194	1.9190

**Table A9.** Parameters of the JKTEBOP best fits of the OGLE-TR-10 light curve from Holman et al. (2007a) ( $I$  band,  $N_{\text{obs}} = 388$ ) for different treatment of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 3000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.1469 \pm 0.0058$	$0.1468 \pm 0.0064$	$0.1469 \pm 0.0060$	$0.1468 \pm 0.0052$	$0.1469 \pm 0.0061$
$k$	$0.1026 \pm 0.0010$	$0.1021 \pm 0.0011$	$0.1023 \pm 0.0011$	$0.1021 \pm 0.0011$	$0.1022 \pm 0.0011$
$i$ (deg.)	$85.98 \pm 0.59$	$86.05 \pm 0.68$	$86.02 \pm 0.61$	$86.04 \pm 0.65$	$86.02 \pm 0.62$
$u_A$	$0.223 \pm 0.063$	$0.011 \pm 0.075$	$-0.130 \pm 0.070$	$0.396 \pm 0.071$	$0.143 \pm 0.074$
$v_A$		0.32 perturbed	0.60 perturbed	0.30 perturbed	0.20 perturbed
$P$ (days)	$3.101257 \pm 0.000005$	$3.101258 \pm 0.000005$	$3.101257 \pm 0.000005$	$3.101257 \pm 0.000005$	$3.101258 \pm 0.000005$
$T_0$	$583.64596 \pm 0.00028$	$583.64593 \pm 0.00028$	$583.64594 \pm 0.00028$	$583.64593 \pm 0.00027$	$583.64594 \pm 0.00029$
$r_A$	$0.1332 \pm 0.0053$	$0.1332 \pm 0.0057$	$0.1333 \pm 0.0054$	$0.1332 \pm 0.0055$	$0.1333 \pm 0.0054$
$r_b$	$0.01368 \pm 0.00062$	$0.01359 \pm 0.00068$	$0.01363 \pm 0.00066$	$0.01361 \pm 0.00068$	$0.01362 \pm 0.00067$
$\sigma$ (mmag)	1.6660	1.6691	1.6675	1.6684	1.6683
$\chi^2_{\text{red}}$	0.9747	0.9745	0.9744	0.9745	0.9745
Fitting for two LD coefficients					
$r_A + r_b$		$0.1466 \pm 0.0070$	$0.1470 \pm 0.0067$	$0.1465 \pm 0.0070$	$0.1461 \pm 0.0067$
$k$		$0.1022 \pm 0.0019$	$0.1022 \pm 0.0023$	$0.1022 \pm 0.0020$	$0.1022 \pm 0.0021$
$i$ (deg.)		$86.04 \pm 0.79$	$86.01 \pm 0.77$	$86.06 \pm 0.80$	$86.09 \pm 0.80$
$u_A$		$0.07 \pm 0.38$	$-0.20 \pm 1.45$	$0.36 \pm 0.46$	$0.17 \pm 0.20$
$v_A$		$0.22 \pm 0.61$	$0.67 \pm 2.37$	$0.24 \pm 0.74$	$0.15 \pm 0.56$
$T_0$		$583.64594 \pm 0.00028$	$583.64594 \pm 0.00030$	$583.64594 \pm 0.00029$	$583.64595 \pm 0.00027$
$r_A$		$0.1330 \pm 0.0062$	$0.1334 \pm 0.0059$	$0.1329 \pm 0.0061$	$0.1326 \pm 0.0059$
$r_b$		$0.01360 \pm 0.00082$	$0.01364 \pm 0.00079$	$0.01358 \pm 0.00081$	$0.01355 \pm 0.00082$
$\sigma$ (mmag)		1.6679	1.6677	1.6676	1.6673
$\chi^2_{\text{red}}$		0.9768	0.9770	0.9769	0.9769

**Table A10.** Parameters of the JKTEBOP best fits of the VLT V-band light curve of OGLE-TR-10 ( $N_{\text{obs}} = 78$ ) from Pont et al. (2007c) for different treatment of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 3000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.1881 \pm 0.0080$	$0.1885 \pm 0.0098$	$0.1880 \pm 0.0088$	$0.1882 \pm 0.0089$	$0.1873 \pm 0.0092$
$k$	$0.1183 \pm 0.0014$	$0.1174 \pm 0.0017$	$0.1175 \pm 0.0015$	$0.1176 \pm 0.0015$	$0.1172 \pm 0.0016$
$i$ (deg.)	$82.96 \pm 0.65$	$82.95 \pm 0.79$	$83.00 \pm 0.74$	$82.98 \pm 0.74$	$83.07 \pm 0.76$
$u_A$	$0.48 \pm 0.14$	$0.29 \pm 0.19$	$0.13 \pm 0.16$	$0.58 \pm 0.17$	$0.40 \pm 0.17$
$v_A$		0.25 perturbed	0.55 perturbed	0.20 perturbed	0.20 perturbed
$T_0$	$890.67095 \pm 0.00047$	$890.67095 \pm 0.00049$	$890.67095 \pm 0.00047$	$890.67095 \pm 0.00045$	$890.67096 \pm 0.00047$
$r_A$	$0.1682 \pm 0.0070$	$0.1687 \pm 0.0086$	$0.1682 \pm 0.0076$	$0.1684 \pm 0.0078$	$0.1676 \pm 0.0080$
$r_b$	$0.0199 \pm 0.0010$	$0.01980 \pm 0.0012$	$0.0198 \pm 0.0011$	$0.0198 \pm 0.0011$	$0.0196 \pm 0.0011$
$\sigma$ (mmag)	0.9756	0.9774	0.9771	0.9771	0.9777
$\chi^2_{\text{red}}$	1.8409	1.8470	1.8459	1.8459	1.8480
Fitting for two LD coefficients					
$r_A + r_b$		$0.1835 \pm 0.0053$	$0.1837 \pm 0.0049$	$0.1838 \pm 0.0052$	$0.1841 \pm 0.0052$
$k$		$0.1289 \pm 0.0107$	$0.1274 \pm 0.0085$	$0.1278 \pm 0.0096$	$0.1274 \pm 0.0091$
$i$ (deg.)		$83.11 \pm 0.40$	$83.03 \pm 0.40$	$83.05 \pm 0.41$	$83.03 \pm 0.41$
$u_A$		$1.95 \pm 0.90$	$4.04 \pm 2.03$	$-0.39 \pm 0.49$	$1.27 \pm 0.54$
$v_A$		$11.84 \pm 1.10$	$-5.34 \pm 2.98$	$-1.93 \pm 1.15$	$-1.43 \pm 0.92$
$T_0$		$890.67098 \pm 0.00048$	$890.67097 \pm 0.00044$	$890.67098 \pm 0.00048$	$890.67098 \pm 0.00044$
$r_A$		$0.1626 \pm 0.0051$	$0.1629 \pm 0.0044$	$0.1629 \pm 0.0046$	$0.1633 \pm 0.0048$
$r_b$		$0.0210 \pm 0.0017$	$0.0208 \pm 0.0014$	$0.0208 \pm 0.0016$	$0.0208 \pm 0.0015$
$\sigma$ (mmag)		0.9666	0.9659	0.9662	0.9662
$\chi^2_{\text{red}}$		1.8336	1.8310	1.8321	1.8323

**Table A11.** Parameters of the JKTEBOP best fits of the VLT R-band light curve of OGLE-TR-10 ( $N_{\text{obs}} = 67$ ) from Pont et al. (2007c) for different treatment of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 3000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.1636 \pm 0.0093$	$0.1634 \pm 0.0095$	$0.1634 \pm 0.0096$	$0.1633 \pm 0.0093$	$0.1633 \pm 0.0092$
$k$	$0.11764 \pm 0.00067$	$0.11720 \pm 0.00068$	$0.11722 \pm 0.00069$	$0.11710 \pm 0.00069$	$0.1174 \pm 0.00067$
$i$ (deg.)	$84.61 \pm 0.74$	$84.64 \pm 0.76$	$84.64 \pm 0.75$	$84.65 \pm 0.74$	$84.64 \pm 0.72$
$u_A$	$0.00 \pm 0.11$	$-0.19 \pm 0.13$	$-0.35 \pm 0.12$	$0.13 \pm 0.12$	$-0.05 \pm 0.11$
$v_A$		0.25 perturbed	0.55 perturbed	0.25 perturbed	0.10 perturbed
$T_0$	$890.67095 \pm 0.00044$	$890.67095 \pm 0.00047$	$890.67095 \pm 0.00043$	$890.67095 \pm 0.00043$	$890.67095 \pm 0.00044$
$r_A$	$0.1463 \pm 0.0083$	$0.1463 \pm 0.00086$	$0.1462 \pm 0.0085$	$0.1462 \pm 0.0084$	$0.1462 \pm 0.0082$
$r_b$	$0.0172 \pm 0.0010$	$0.0171 \pm 0.0010$	$0.0171 \pm 0.0010$	$0.0181 \pm 0.0010$	$0.0172 \pm 0.0010$
$\sigma$ (mmag)	0.7155	0.7149	0.7150	0.7149	0.7151
$\chi^2_{\text{red}}$	1.6819	1.6790	1.6797	1.6792	1.6802
Fitting for two LD coefficients					
$r_A + r_b$		$0.1402 \pm 0.0040$	$0.1575 \pm 0.0110$	$0.1536 \pm 0.0077$	$0.1565 \pm 0.0110$
$k$		$0.1015 \pm 0.0027$	$0.1125 \pm 0.0055$	$0.1050 \pm 0.0018$	$0.1141 \pm 0.0059$
$i$ (deg.)		$88.98 \pm 1.13$	$85.54 \pm 1.02$	$86.64 \pm 0.97$	$85.48 \pm 0.99$
$u_A$		$-0.54 \pm 0.22$	$-3.54 \pm 3.53$	$3.04 \pm 0.25$	$-0.30 \pm 0.50$
$v_A$		$2.56 \pm 0.43$	$6.00 \pm 5.89$	$3.92 \pm 0.48$	$1.13 \pm 1.70$
$T_0$		$890.67093 \pm 0.00046$	$890.67098 \pm 0.00048$	$890.67100 \pm 0.00045$	$890.67097 \pm 0.00048$
$r_A$		$0.1272 \pm 0.0036$	$0.1416 \pm 0.0099$	$0.1390 \pm 0.0068$	$0.1405 \pm 0.0101$
$r_b$		$0.0129 \pm 0.00047$	$0.0159 \pm 0.0013$	$0.0146 \pm 0.00090$	$0.0160 \pm 0.0012$
$\sigma$ (mmag)		0.6875	0.7142	0.7131	0.7142
$\chi^2_{\text{red}}$		1.5941	1.7020	1.6994	1.7020



**Table A12.** Parameters of the JKTEBOP best fits of the VLT V-band light curve of OGLE-TR-56 (68 observations) from Pont et al. (2007c) for different treatment of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 3000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.273 \pm 0.033$	$0.275 \pm 0.035$	$0.275 \pm 0.033$	$0.275 \pm 0.031$	$0.274 \pm 0.033$
$k$	$0.1022 \pm 0.0053$	$0.1012 \pm 0.0056$	$0.1015 \pm 0.0053$	$0.1013 \pm 0.0047$	$0.1017 \pm 0.0052$
$i$ (deg.)	$78.8 \pm 2.5$	$78.7 \pm 2.8$	$78.7 \pm 2.7$	$78.7 \pm 2.5$	$78.8 \pm 2.6$
$u_A$	$0.69 \pm 0.28$	$0.49 \pm 0.33$	$0.32 \pm 0.32$	$0.79 \pm 0.35$	$0.63 \pm 0.30$
$v_A$		0.25 perturbed	0.55 perturbed	0.23 perturbed	0.10 perturbed
$T_0$	$936.59816 \pm 0.00067$	$936.59814 \pm 0.00066$	$936.59813 \pm 0.00067$	$936.59814 \pm 0.00064$	$936.59814 \pm 0.00064$
$r_A$	$0.248 \pm 0.030$	$0.250 \pm 0.031$	$0.250 \pm 0.030$	$0.250 \pm 0.028$	$0.249 \pm 0.030$
$r_b$	$0.0253 \pm 0.0035$	$0.0253 \pm 0.0037$	$0.0254 \pm 0.0037$	$0.0253 \pm 0.0034$	$0.0253 \pm 0.0035$
$\sigma$ (mmag)	0.8418	0.8429	0.8428	0.8429	0.8425
$\chi^2_{\text{red}}$	0.8062	0.8083	0.8080	0.8083	0.8075
Fitting for two LD coefficients					
$r_A + r_b$		$0.258 \pm 0.015$	$0.266 \pm 0.018$	$0.259 \pm 0.015$	$0.259 \pm 0.015$
$k$		$0.121 \pm 0.014$	$0.113 \pm 0.010$	$0.118 \pm 0.013$	$0.118 \pm 0.012$
$i$ (deg.)		$79.7 \pm 0.9$	$79.1 \pm 1.1$	$79.5 \pm 0.9$	$79.5 \pm 0.9$
$u_A$		$2.56 \pm 0.67$	$3.96 \pm 1.80$	$-0.26 \pm 0.37$	$1.72 \pm 0.51$
$v_A$		$-2.28 \pm 0.76$	$-4.83 \pm 2.58$	$-2.26 \pm 0.92$	$-1.70 \pm 0.77$
$T_0$		$936.59827 \pm 0.00058$	$936.59817 \pm 0.00062$	$936.59826 \pm 0.00056$	$936.59827 \pm 0.00061$
$r_A$		$0.230 \pm 0.014$	$0.239 \pm 0.017$	$0.232 \pm 0.015$	$0.232 \pm 0.014$
$r_b$		$0.0279 \pm 0.0028$	$0.0270 \pm 0.0026$	$0.0274 \pm 0.0026$	$0.0273 \pm 0.0027$
$\sigma$ (mmag)		0.8229	0.8241	0.8219	0.8224
$\chi^2_{\text{red}}$		0.7834	0.7857	0.7816	0.7825

**Table A13.** Parameters of the JKTEBOP best fits of the VLT R-band light curve of OGLE-TR-56 (67 observations) from Pont et al. (2007c) for different treatment of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 3000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.236 \pm 0.043$	$0.265 \pm 0.039$	$0.252 \pm 0.041$	$0.347 \pm 0.018$	$0.333 \pm 0.042$
$k$	$0.0890 \pm 0.0104$	$0.0912 \pm 0.0090$	$0.0900 \pm 0.0099$	$0.0918 \pm 0.0113$	$0.0999 \pm 0.0081$
$i$ (deg.)	$83.3 \pm 4.3$	$81.4 \pm 3.3$	$82.3 \pm 3.5$	$73.4 \pm 1.5$	$77.3 \pm 2.5$
$u_A$	$1.14 \pm 0.31$	$1.06 \pm 0.30$	$1.06 \pm 0.29$	$-0.84 \pm 3.43$	$1.36 \pm 0.11$
$v_A$		0.28 perturbed	0.60 perturbed	0.25 perturbed	0.10 perturbed
$T_0$	$936.59811 \pm 0.00049$	$936.59811 \pm 0.00049$	$936.59814 \pm 0.00049$	$936.59852 \pm 0.00046$	$936.59843 \pm 0.00046$
$r_A$	$0.217 \pm 0.037$	$0.243 \pm 0.034$	$0.231 \pm 0.035$	$0.318 \pm 0.019$	$0.303 \pm 0.036$
$r_b$	$0.0193 \pm 0.0059$	$0.0221 \pm 0.0051$	$0.0208 \pm 0.0052$	$0.0292 \pm 0.0023$	$0.0302 \pm 0.0058$
$\sigma$ (mmag)	0.8531	0.8514	0.8521	0.8452	0.8550
$\chi^2_{\text{red}}$	0.8257	0.8226	0.8237	0.9114	0.8290
Fitting for two LD coefficients					
$r_A + r_b$		$0.255 \pm 0.037$	$0.225 \pm 0.037$	$0.259 \pm 0.034$	$0.257 \pm 0.034$
$k$		$0.0900 \pm 0.0099$	$0.0910 \pm 0.0091$	$0.0906 \pm 0.0092$	$0.0904 \pm 0.0096$
$i$ (deg.)		$82.1 \pm 3.0$	$83.7 \pm 2.4$	$81.7 \pm 2.9$	$81.9 \pm 2.9$
$u_A$		$1.06 \pm 0.64$	$1.54 \pm 1.42$	$1.32 \pm 0.71$	$1.13 \pm 0.38$
$v_A$		$0.25 \pm 0.99$	$-0.84 \pm 2.44$	$0.37 \pm 1.02$	$0.24 \pm 0.78$
$T_0$		$936.59811 \pm 0.00049$	$936.59806 \pm 0.00050$	$936.59807 \pm 0.00048$	$936.59808 \pm 0.00048$
$r_A$		$0.234 \pm 0.033$	$0.206 \pm 0.033$	$0.238 \pm 0.029$	$0.236 \pm 0.030$
$r_b$		$0.0210 \pm 0.0050$	$0.0188 \pm 0.0049$	$0.0215 \pm 0.0045$	$0.0213 \pm 0.0045$
$\sigma$ (mmag)		0.8509	0.8531	0.8506	0.8509
$\chi^2_{\text{red}}$		0.8353	0.8394	0.8348	0.8354

**Table A14.** Parameters of the JKTEBOP best fits of the OGLE-TR-111 light curve from Winn, Holman & Fuentes (2007b) (*I* band,  $N_{\text{obs}} = 386$ ) for different treatment of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD - 245 3000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_B$	$0.0954 \pm 0.0036$	$0.0950 \pm 0.0040$	$0.0954 \pm 0.0037$	$0.0953 \pm 0.0036$	$0.0953 \pm 0.0039$
$k$	$0.1324 \pm 0.0017$	$0.1313 \pm 0.0021$	$0.1318 \pm 0.0018$	$0.1316 \pm 0.0018$	$0.1314 \pm 0.0019$
$i$ (deg.)	$88.03 \pm 0.47$	$88.15 \pm 0.61$	$88.08 \pm 0.51$	$88.11 \pm 0.51$	$88.12 \pm 0.56$
$u_A$	$0.454 \pm 0.051$	$0.320 \pm 0.064$	$0.189 \pm 0.057$	$0.604 \pm 0.061$	$0.405 \pm 0.060$
$v_A$		0.26 perturbed	0.45 perturbed	0.22 perturbed	0.20 perturbed
$T_0$	$799.75165 \pm 0.00019$	$799.75165 \pm 0.00021$	$799.75165 \pm 0.00020$	$799.75165 \pm 0.00020$	$799.75165 \pm 0.00020$
$r_A$	$0.0843 \pm 0.0030$	$0.0840 \pm 0.0034$	$0.0843 \pm 0.0031$	$0.0842 \pm 0.0031$	$0.0842 \pm 0.0034$
$r_B$	$0.01116 \pm 0.00053$	$0.01103 \pm 0.00061$	$0.01111 \pm 0.00053$	$0.01108 \pm 0.00054$	$0.01107 \pm 0.00058$
$\sigma$ (mmag)	2.0830	2.0828	2.0828	2.0827	2.0828
$\chi^2_{\text{red}}$	0.9786	0.9778	0.9781	0.9779	0.9779
Fitting for two LD coefficients					
$r_A + r_B$		$0.0950 \pm 0.0040$	$0.0954 \pm 0.0042$	$0.0951 \pm 0.0040$	$0.0951 \pm 0.0039$
$k$		$0.1313 \pm 0.0033$	$0.1314 \pm 0.0040$	$0.1312 \pm 0.0040$	$0.1313 \pm 0.0047$
$i$ (deg.)		$88.16 \pm 0.73$	$88.11 \pm 0.63$	$88.15 \pm 0.67$	$88.15 \pm 0.64$
$u_A$		$0.33 \pm 0.22$	$-0.03 \pm 1.23$	$0.66 \pm 0.51$	$0.40 \pm 0.12$
$v_A$		$0.24 \pm 0.44$	$0.83 \pm 2.14$	$0.29 \pm 0.70$	$0.22 \pm 0.65$
$T_0$		$799.75165 \pm 0.00021$	$799.75165 \pm 0.00020$	$799.75165 \pm 0.00020$	$799.75165 \pm 0.00019$
$r_A$		$0.0839 \pm 0.0034$	$0.0843 \pm 0.0036$	$0.0841 \pm 0.0033$	$0.0841 \pm 0.0033$
$r_B$		$0.01102 \pm 0.00068$	$0.01108 \pm 0.00066$	$0.01103 \pm 0.00066$	$0.01104 \pm 0.00064$
$\sigma$ (mmag)		2.0828	2.0828	2.0828	2.0828
$\chi^2_{\text{red}}$		0.9804	0.9806	0.9805	0.9805

**Table A15.** Parameters of the JKTEBOP best fits of the OGLE-TR-132 light curve from Gillon et al. (2007c) ( $R_{\text{special}}$  filter,  $N_{\text{obs}} = 274$ ) for different treatment of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD - 245 3000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_B$	$0.228 \pm 0.017$	$0.231 \pm 0.020$	$0.231 \pm 0.018$	$0.231 \pm 0.019$	$0.231 \pm 0.020$
$k$	$0.0941 \pm 0.0021$	$0.0937 \pm 0.0022$	$0.0938 \pm 0.0020$	$0.0937 \pm 0.0022$	$0.0937 \pm 0.0023$
$i$ (deg.)	$83.5 \pm 1.7$	$83.2 \pm 2.0$	$83.3 \pm 1.8$	$83.3 \pm 2.0$	$83.3 \pm 2.0$
$u_A$	$0.534 \pm 0.071$	$0.341 \pm 0.099$	$0.166 \pm 0.088$	$0.684 \pm 0.086$	$0.464 \pm 0.088$
$v_A$		0.30 perturbed	0.60 perturbed	0.25 perturbed	0.20 perturbed
$T_0$	$142.59118 \pm 0.00033$	$142.59121 \pm 0.00035$	$142.59120 \pm 0.00033$	$142.59121 \pm 0.00034$	$142.59121 \pm 0.00034$
$r_A$	$0.208 \pm 0.016$	$0.212 \pm 0.017$	$0.211 \pm 0.016$	$0.211 \pm 0.017$	$0.211 \pm 0.018$
$r_B$	$0.0196 \pm 0.0018$	$0.0198 \pm 0.0021$	$0.0198 \pm 0.0019$	$0.0198 \pm 0.0020$	$0.0197 \pm 0.0021$
$\sigma$ (mmag)	1.2781	1.2799	1.2790	1.2793	1.2794
Fitting for two LD coefficients					
$r_A + r_B$		$0.226 \pm 0.016$	$0.224 \pm 0.016$	$0.225 \pm 0.017$	$0.227 \pm 0.017$
$k$		$0.0944 \pm 0.0034$	$0.0946 \pm 0.0034$	$0.0944 \pm 0.0034$	$0.095 \pm 0.0037$
$i$ (deg.)		$83.6 \pm 1.9$	$83.7 \pm 2.1$	$83.7 \pm 1.9$	$83.5 \pm 1.8$
$u_A$		$0.68 \pm 0.43$	$1.13 \pm 1.28$	$0.39 \pm 0.45$	$0.61 \pm 0.22$
$v_A$		$-0.22 \pm 0.65$	$-0.96 \pm 2.09$	$-0.25 \pm 0.76$	$-0.19 \pm 0.59$
$T_0$		$142.59116 \pm 0.00034$	$142.59115 \pm 0.00032$	$142.59116 \pm 0.00033$	$142.59118 \pm 0.00032$
$r_A$		$0.206 \pm 0.014$	$0.205 \pm 0.015$	$0.206 \pm 0.015$	$0.208 \pm 0.015$
$r_B$		$0.0195 \pm 0.0019$	$0.0194 \pm 0.0019$	$0.0194 \pm 0.0020$	$0.0196 \pm 0.0019$
$\sigma$ (mmag)		1.2801	1.2803	1.2801	1.2800

**Table A16.** Parameters of the JKTEBOP best fits of the *Spitzer* light curve of GJ 436 for different LD laws. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 4000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
$r_A + r_b$	$0.0794 \pm 0.0024$	$0.0790 \pm 0.0024$	$0.0794 \pm 0.0023$	$0.0790 \pm 0.0023$	$0.0791 \pm 0.0025$
$k$	$0.08313 \pm 0.00072$	$0.08283 \pm 0.00075$	$0.08259 \pm 0.00078$	$0.08300 \pm 0.00077$	$0.08291 \pm 0.00074$
$i$ (deg.)	$86.41 \pm 0.15$	$86.41 \pm 0.15$	$86.41 \pm 0.15$	$86.44 \pm 0.14$	$86.44 \pm 0.15$
$u_A$	0.10 perturbed	–0.05 perturbed	–0.11 perturbed	0.18 perturbed	0.05 perturbed
$v_A$		0.20 perturbed	0.25 perturbed	0.14 perturbed	0.10 perturbed
$T_0$	$280.78212 \pm 0.00011$	$280.78211 \pm 0.00011$	$280.78212 \pm 0.00011$	$280.78212 \pm 0.00010$	$280.78212 \pm 0.00010$
$r_A$	$0.07332 \pm 0.0022$	$0.0730 \pm 0.0022$	$0.0734 \pm 0.0021$	$0.0730 \pm 0.0021$	$0.0730 \pm 0.0023$
$r_b$	$0.006095 \pm 0.00019$	$0.00604 \pm 0.00020$	$0.00606 \pm 0.00018$	$0.00606 \pm 0.00018$	$0.00606 \pm 0.00019$
$\sigma$ (mmag)	0.7043	0.7051	0.7041	0.7049	0.7048
$\chi^2_{\text{red}}$	1.3718	1.3748	1.3712	1.3743	1.3738

**Table A17.** Parameters of the JKTEBOP best fits of the HD 149026 light curve from Sato et al. (2005) and Charbonneau et al. (2006) for different treatment of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD - 245 3000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law
APT ( $b+y/2$ ) light curve from Sato et al. (2005)				
$r_A + r_b$	$0.143^{+0.062}_{-0.019}$	$0.145^{+0.065}_{-0.017}$	$0.144^{+0.060}_{-0.017}$	$0.158^{+0.065}_{-0.015}$
$k$	$0.0464^{+0.0033}_{-0.0028}$	$0.0463^{+0.0033}_{-0.0029}$	$0.0482^{+0.0031}_{-0.0035}$	$0.0480^{+0.0033}_{-0.0030}$
$i$ (deg.)	82.0 to 90.0	83.0 to 90.0	83.0 to 90.0	83.0 to 90.0
$u_A$	$0.735^{+0.35}_{-0.26}$	$0.510^{+0.392}_{-0.302}$	$0.331^{+0.358}_{-0.271}$	$0.780^{+0.298}_{-0.305}$
$v_A$		0.25 perturbed	0.55 perturbed	0.20 perturbed
$P$ (days)	$2.87555^{+0.00037}_{-0.00034}$	$2.87560^{+0.00031}_{-0.00036}$	$2.87558^{+0.00034}_{-0.00036}$	$2.87286^{+0.00031}_{-0.00034}$
$T_0$	$527.8729^{+0.0004}_{-0.0003}$	$527.8729^{+0.0016}_{-0.0015}$	$527.8729^{+0.0014}_{-0.0015}$	$527.8729^{+0.0014}_{-0.0015}$
$r_A$	$0.136^{+0.062}_{-0.028}$	$0.139^{+0.062}_{-0.016}$	$0.153^{+0.057}_{-0.016}$	$0.151^{+0.061}_{-0.014}$
$r_b$	$0.00633^{+0.0039}_{-0.0009}$	$0.0064^{+0.0009}_{-0.0040}$	$0.0072^{+0.0037}_{-0.0008}$	$0.0071^{+0.0041}_{-0.0007}$
$\sigma$ (mmag)	1.8014	1.8022	1.8018	1.8019
FLWO $g$ light curve from Charbonneau et al. (2006)				
$r_A + r_b$	$0.162^{+0.045}_{-0.014}$	$0.158^{+0.010}_{-0.004}$	$0.158^{+0.014}_{-0.004}$	$0.147^{+0.008}_{-0.004}$
$k$	$0.0491^{+0.0039}_{-0.0027}$	$0.0533^{+0.0018}_{-0.0014}$	$0.0538^{+0.0019}_{-0.0014}$	$0.0485^{+0.0025}_{-0.0024}$
$i$ (deg.)	82.0 to 90.0	86.0 to 90.0	86.0 to 90.0	87.0 to 90.0
$u_A$	0.73 perturbed	0.52 perturbed	0.42 perturbed	0.80 perturbed
$v_A$		0.24 perturbed	0.41 perturbed	0.20 perturbed
$T_0$	$527.8750^{+0.0013}_{-0.0014}$	$527.8749^{+0.0034}_{-0.0099}$	$527.8749^{+0.0013}_{-0.0012}$	$527.8751^{+0.0011}_{-0.0012}$
$r_A$	$0.154^{+0.013}_{-0.042}$	$0.150^{+0.0034}_{-0.0099}$	$0.150^{+0.013}_{-0.004}$	$0.140^{+0.004}_{-0.008}$
$r_b$	$0.0075^{+0.0009}_{-0.0030}$	$0.0080^{+0.0003}_{-0.0007}$	$0.0080^{+0.0009}_{-0.0003}$	$0.0068^{+0.0004}_{-0.0007}$
$\sigma$ (mmag)	2.4386	2.2049	2.2054	2.4354
$\chi^2_{\text{red}}$	1.0053	1.0019	1.0027	1.0018
FLWO $r$ light curve from Charbonneau et al. (2006)				
$r_A + r_b$	$0.162^{+0.045}_{-0.014}$	$0.147^{+0.009}_{-0.004}$	$0.148^{+0.023}_{-0.004}$	$0.147^{+0.008}_{-0.004}$
$k$	$0.0491^{+0.0039}_{-0.0027}$	$0.0484^{+0.0023}_{-0.0023}$	$0.0486^{+0.0024}_{-0.0024}$	$0.0485^{+0.0025}_{-0.0024}$
$i$ (deg.)	82.0 to 90.0	87.0 to 90.0	85.0 to 90.0	87.0 to 90.0
$u_A$	0.61 perturbed	0.35 perturbed	0.19 perturbed	0.70 perturbed
$v_A$		0.32 perturbed	0.55 perturbed	0.27 perturbed
$T_0$	$527.8750^{+0.0013}_{-0.0014}$	$527.8750^{+0.0012}_{-0.0012}$	$527.8751^{+0.0012}_{-0.0012}$	$527.8751^{+0.0011}_{-0.0012}$
$r_A$	$0.154^{+0.042}_{-0.013}$	$0.140^{+0.008}_{-0.004}$	$0.141^{+0.022}_{-0.004}$	$0.140^{+0.008}_{-0.004}$
$r_b$	$0.0076^{+0.0028}_{-0.0009}$	$0.0068^{+0.0006}_{-0.0004}$	$0.0068^{+0.0012}_{-0.0004}$	$0.0068^{+0.0007}_{-0.0004}$
$\sigma$ (mmag)	2.4386	2.4362	2.4353	2.4354
$\chi^2_{\text{red}}$	1.0053	1.0027	1.0017	1.0018

**Table A18.** Parameters of the JKTEBOP best fits of the FLWO  $r$ -band light curve ( $N_{\text{obs}} = 642$ ) of HD 189733 from Bakos et al. (2006b) for different treatments of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 3000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities. Note that the  $\sigma$  is affected by scatter due to high airmass towards the end of the observations.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.1190 \pm 0.0068$	$0.1194 \pm 0.0066$	$0.1193 \pm 0.0069$	$0.1194 \pm 0.0069$	$0.1192 \pm 0.0073$
$k$	$0.1509 \pm 0.0034$	$0.1500 \pm 0.0036$	$0.1504 \pm 0.0037$	$0.1502 \pm 0.0033$	$0.1497 \pm 0.0039$
$i$ (deg.)	$86.56 \pm 0.61$	$86.56 \pm 0.64$	$86.55 \pm 0.65$	$86.55 \pm 0.64$	$86.59 \pm 0.69$
$u_A$	$0.541 \pm 0.123$	$0.413 \pm 0.148$	$0.309 \pm 0.133$	$0.651 \pm 0.139$	$0.481 \pm 0.148$
$v_A$		0.21 perturbed	0.38 perturbed	0.18 perturbed	0.20 perturbed
$T_0$	$642.70584 \pm 0.00025$	$642.70584 \pm 0.00026$	$642.70584 \pm 0.00025$	$642.70584 \pm 0.00024$	$642.70584 \pm 0.00025$
$r_A$	$0.1034 \pm 0.0056$	$0.1038 \pm 0.0055$	$0.1037 \pm 0.0057$	$0.1038 \pm 0.0057$	$0.1037 \pm 0.0060$
$r_b$	$0.0156 \pm 0.0011$	$0.0156 \pm 0.0012$	$0.0156 \pm 0.0012$	$0.0156 \pm 0.0012$	$0.0155 \pm 0.0013$
$\sigma$ (mmag)	4.9239	4.9249	4.9243	4.9245	4.9249
Fitting for two LD coefficients					
$r_A + r_b$		$0.1184 \pm 0.0052$	$0.1181 \pm 0.0059$	$0.1182 \pm 0.0064$	$0.1183 \pm 0.0059$
$k$		$0.1542 \pm 0.0079$	$0.1536 \pm 0.0072$	$0.1539 \pm 0.0093$	$0.1537 \pm 0.0080$
$i$ (deg.)		$86.50 \pm 0.50$	$86.52 \pm 0.52$	$86.51 \pm 0.58$	$86.50 \pm 0.55$
$u_A$		$0.98 \pm 0.75$	$1.71 \pm 2.23$	$0.11 \pm 1.01$	$0.73 \pm 0.35$
$v_A$		$-0.70 \pm 0.49$	$-1.90 \pm 3.63$	$-0.73 \pm 1.50$	$-0.53 \pm 1.07$
$T_0$		$642.70584 \pm 0.00025$	$642.70584 \pm 0.00025$	$642.70584 \pm 0.00025$	$642.70584 \pm 0.00025$
$r_A$		$0.1026 \pm 0.0042$	$0.1024 \pm 0.0050$	$0.1024 \pm 0.0054$	$0.1026 \pm 0.0049$
$r_b$		$0.0158 \pm 0.0011$	$0.0157 \pm 0.0011$	$0.0158 \pm 0.0012$	$0.0158 \pm 0.0012$
$\sigma$ (mmag)		4.9227	4.9231	4.9229	4.9230

**Table A19.** Parameters of the JKTEBOP best fits of the FLWO light curve of HD 189733 ( $z$  band,  $N_{\text{obs}} = 1662$ ) from Winn et al. (2007d) for different treatments of LD. The parameter symbols are as given in Section 2.2. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.1295 \pm 0.0019$	$0.1298 \pm 0.0021$	$0.1297 \pm 0.0019$	$0.1298 \pm 0.0020$	$0.1297 \pm 0.0020$
$k$	$0.1585 \pm 0.0009$	$0.1572 \pm 0.0009$	$0.1579 \pm 0.0009$	$0.1576 \pm 0.0009$	$0.1580 \pm 0.0009$
$i$ (deg.)	$85.73 \pm 0.16$	$85.73 \pm 0.16$	$85.73 \pm 0.16$	$85.74 \pm 0.17$	$85.73 \pm 0.17$
$u_A$	$0.440 \pm 0.058$	$0.222 \pm 0.062$	$0.124 \pm 0.062$	$0.571 \pm 0.066$	$0.397 \pm 0.058$
$v_A$		0.31 perturbed	0.50 perturbed	0.24 perturbed	0.10 perturbed
$r_A$	$0.1118 \pm 0.0016$	$0.1122 \pm 0.0016$	$0.1120 \pm 0.0016$	$0.1121 \pm 0.0017$	$0.1120 \pm 0.0016$
$r_b$	$0.01772 \pm 0.00033$	$0.01764 \pm 0.00033$	$0.01768 \pm 0.00033$	$0.01767 \pm 0.00035$	$0.01769 \pm 0.00034$
$\sigma$ (mmag)	2.4579	2.4578	2.4578	2.4578	2.4578
$\chi^2_{\text{red}}$	1.0086	1.0085	1.0086	1.0085	1.0086
Fitting for two LD coefficients					
$r_A + r_b$		$0.1299 \pm 0.0023$	$0.1298 \pm 0.0026$	$0.1299 \pm 0.0027$	$0.1297 \pm 0.0026$
$k$		$0.1573 \pm 0.0043$	$0.1575 \pm 0.0044$	$0.1575 \pm 0.0050$	$0.1578 \pm 0.0048$
$i$ (deg.)		$85.73 \pm 0.18$	$85.74 \pm 0.17$	$85.73 \pm 0.19$	$85.73 \pm 0.18$
$u_A$		$0.23 \pm 0.65$	$-0.02 \pm 1.79$	$0.59 \pm 0.72$	$0.37 \pm 0.29$
$v_A$		$0.30 \pm 0.97$	$0.73 \pm 2.91$	$0.28 \pm 1.20$	$0.15 \pm 0.84$
$r_A$		$0.1122 \pm 0.0022$	$0.1121 \pm 0.0024$	$0.1122 \pm 0.0026$	$0.1121 \pm 0.0025$
$r_b$		$0.01765 \pm 0.00045$	$0.01777 \pm 0.00038$	$0.01767 \pm 0.00041$	$0.01768 \pm 0.00039$
$\sigma$ (mmag)		2.4578	2.4578	2.4578	2.4578
$\chi^2_{\text{red}}$		1.0091	1.0092	1.0091	1.0091

**Table A20.** Parameters of the JKTEBOP best fits of the WISE Observatory HD 189733 light curve (*I* band,  $N_{\text{obs}} = 345$ ) from Winn et al. (2007d) for different LD laws. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 0000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.1320 \pm 0.0067$	$0.1327 \pm 0.0072$	$0.1327 \pm 0.0073$	$0.1327 \pm 0.0071$	$0.1325 \pm 0.0074$
$k$	$0.1506 \pm 0.0025$	$0.1496 \pm 0.0026$	$0.1500 \pm 0.0024$	$0.1498 \pm 0.0025$	$0.1501 \pm 0.0026$
$i$ (deg.)	$85.41 \pm 0.56$	$85.37 \pm 0.61$	$85.38 \pm 0.58$	$85.38 \pm 0.60$	$85.38 \pm 0.60$
$u_A$	$0.42 \pm 0.22$	$0.22 \pm 0.27$	$0.11 \pm 0.25$	$0.52 \pm 0.27$	$0.36 \pm 0.25$
$v_A$		0.25 perturbed	0.46 perturbed	0.22 perturbed	0.10 perturbed
$T_0$	$984.36572 \pm 0.00029$	$984.36582 \pm 0.00028$	$984.36582 \pm 0.00027$	$984.36582 \pm 0.00028$	$984.36582 \pm 0.00029$
$r_A$	$0.1147 \pm 0.0056$	$0.1154 \pm 0.0060$	$0.1153 \pm 0.0062$	$0.1154 \pm 0.0060$	$0.1152 \pm 0.0064$
$r_b$	$0.0173 \pm 0.0010$	$0.0173 \pm 0.0011$	$0.0173 \pm 0.0011$	$0.0173 \pm 0.0011$	$0.0173 \pm 0.0011$
$\sigma$ (mmag)	3.2212	3.2204	3.2207	3.2205	3.2207
$\chi^2_{\text{red}}$	1.0042	1.0038	1.0039	1.0038	1.0040

**Table A21.** Parameters of the JKTEBOP best fits of the HD 209458 light curve from Brown et al. (2001) ( $N_{\text{obs}} = 556$ ) for different treatments of LD. The parameter symbols are as given in Section 2.2. The transit midpoint  $T_0$  is expressed as HJD – 245 1000. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.12889 \pm 0.00041$	$0.12768 \pm 0.00048$	$0.12840 \pm 0.00044$	$0.12811 \pm 0.00048$	$0.12846 \pm 0.00043$
$k$	$0.12260 \pm 0.00011$	$0.12095 \pm 0.00020$	$0.12172 \pm 0.00013$	$0.12137 \pm 0.00018$	$0.12201 \pm 0.00021$
$i$ (deg.)	$86.472 \pm 0.038$	$86.668 \pm 0.052$	$86.567 \pm 0.044$	$86.612 \pm 0.049$	$86.543 \pm 0.046$
$u_A$	$0.494 \pm 0.004$	$0.297 \pm 0.020$	$0.152 \pm 0.021$	$0.674 \pm 0.023$	$0.463 \pm 0.011$
$v_A$		0.34 perturbed	0.57 perturbed	0.28 perturbed	0.10 perturbed
$T_0$	$659.936716 \pm 0.000021$	$659.936712 \pm 0.000022$	$659.936714 \pm 0.000021$	$659.936713 \pm 0.000020$	$659.936715 \pm 0.000022$
$r_A$	$0.11482 \pm 0.00035$	$0.11391 \pm 0.00042$	$0.11447 \pm 0.00038$	$0.11425 \pm 0.00041$	$0.11449 \pm 0.00038$
$r_b$	$0.014076 \pm 0.000055$	$0.013778 \pm 0.000068$	$0.013934 \pm 0.000059$	$0.013866 \pm 0.000065$	$0.013969 \pm 0.000062$
$\sigma$ (mmag)	0.1781	0.1732	0.1748	0.1738	0.1754
$\chi^2_{\text{red}}$	1.1457	1.0536	1.0812	1.0633	1.0947
Fitting for two LD coefficients					
$r_A + r_b$		$0.12769 \pm 0.00047$	$0.12794 \pm 0.00050$	$0.12779 \pm 0.00053$	$0.12774 \pm 0.00050$
$k$		$0.12096 \pm 0.00025$	$0.12052 \pm 0.00034$	$0.12073 \pm 0.00030$	$0.12074 \pm 0.00032$
$i$ (deg.)		$86.667 \pm 0.53$	$86.688 \pm 0.057$	$86.681 \pm 0.063$	$86.689 \pm 0.060$
$u_A$		$0.297 \pm 0.028$	$-0.309 \pm 0.122$	$0.772 \pm 0.042$	$0.405 \pm 0.013$
$v_A$		$0.338 \pm 0.050$	$1.350 \pm 0.207$	$0.427 \pm 0.063$	$0.317 \pm 0.050$
$T_0$		$659.936712 \pm 0.000022$	$659.936711 \pm 0.000022$	$659.936711 \pm 0.000023$	$659.936711 \pm 0.000022$
$r_A$		$0.11391 \pm 0.00041$	$0.11418 \pm 0.00043$	$0.11402 \pm 0.00045$	$0.11398 \pm 0.00043$
$r_b$		$0.013779 \pm 0.000069$	$0.013761 \pm 0.000075$	$0.013766 \pm 0.000075$	$0.013762 \pm 0.000078$
$\sigma$ (mmag)		0.1732	0.1734	0.1733	0.1734
$\chi^2_{\text{red}}$		1.0536	1.0540	1.0538	1.0541

**Table A22.** Parameters of the JKTEBOP best fits of the MOST light curve of HD 209458 from Rowe et al. (2006) (unfiltered GOAT?,  $N_{\text{obs}} = 8772$  as analysed here) for different treatments of LD. The parameter symbols are as given in Section 2.2. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	Linear LD law	Quadratic LD law	Square-root LD law	Logarithmic LD law	Cubic LD law
Fitting for one LD coefficient					
$r_A + r_b$	$0.1269 \pm 0.0021$	$0.1259 \pm 0.0022$	$0.1266 \pm 0.0022$	$0.1264 \pm 0.0022$	$0.1266 \pm 0.0022$
$k$	$0.12447 \pm 0.00071$	$0.1231 \pm 0.00079$	$0.1235 \pm 0.00080$	$0.1235 \pm 0.00078$	$0.1238 \pm 0.00076$
$i$ (deg.)	$86.69 \pm 0.22$	$86.85 \pm 0.24$	$86.77 \pm 0.24$	$86.79 \pm 0.24$	$86.75 \pm 0.23$
$u_A$	$0.552 \pm 0.023$	$0.415 \pm 0.031$	$0.196 \pm 0.032$	$0.691 \pm 0.034$	$0.524 \pm 0.026$
$v_A$		0.25 perturbed	0.60 perturbed	0.21 perturbed	0.10 perturbed
$r_A$	$0.1128 \pm 0.0018$	$0.1121 \pm 0.0019$	$0.1127 \pm 0.0019$	$0.1125 \pm 0.0019$	$0.1126 \pm 0.0019$
$r_b$	$0.01404 \pm 0.00030$	$0.01380 \pm 0.00031$	$0.01392 \pm 0.00032$	$0.01389 \pm 0.00031$	$0.01395 \pm 0.00030$
$\sigma$ (mmag)	3.1582	3.1564	3.1571	3.1570	3.1574
$\chi^2_{\text{red}}$	0.9258	0.9247	0.9251	0.9251	0.9253
Fitting for two LD coefficients					
$r_A + r_b$		$0.1292 \pm 0.0058$	$0.1312 \pm 0.0048$	$0.1321 \pm 0.0055$	$0.1321 \pm 0.0055$
$k$		$0.1122 \pm 0.0014$	$0.1162 \pm 0.0020$	$0.1142 \pm 0.0012$	$0.1151 \pm 0.0023$
$i$ (deg.)		$87.46 \pm 0.56$	$86.95 \pm 0.36$	$87.02 \pm 0.43$	$86.95 \pm 0.39$
$u_A$		$-0.05 \pm 0.19$	$-2.15 \pm 0.73$	$2.08 \pm 0.26$	$0.38 \pm 0.07$
$v_A$		$1.724 \pm 0.36$	$4.82 \pm 1.31$	$1.94 \pm 0.38$	$1.39 \pm 0.39$
$r_A$		$0.1162 \pm 0.0053$	$0.1175 \pm 0.0045$	$0.1185 \pm 0.0050$	$0.1185 \pm 0.0052$
$r_b$		$0.01304 \pm 0.00055$	$0.01366 \pm 0.00045$	$0.01354 \pm 0.00050$	$0.01364 \pm 0.00048$
$\sigma$ (mmag)		3.1524	3.1542	3.1534	3.1538
$\chi^2_{\text{red}}$		0.9228	0.9238	0.9234	0.9236

**Table A23.** Parameters of the JKTEBOP best fits of the *HST* light curves of HD 209458 from Knutson et al. (2007c) ( $N_{\text{obs}} = 504$  for the five bluer passbands and  $N_{\text{obs}} = 548$  for the five redder passbands) for the linear LD law. The parameter symbols are as given in Section 2.2. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	320 nm	375 nm	430 nm	484 nm	539 nm
$r_A + r_b$	$0.1270 \pm 0.0024$	$0.1247 \pm 0.0024$	$0.1271 \pm 0.0007$	$0.1272 \pm 0.0006$	$0.1286 \pm 0.0006$
$k$	$0.12230 \pm 0.00128$	$0.12160 \pm 0.0013$	$0.12248 \pm 0.0003$	$0.12238 \pm 0.0002$	$0.12272 \pm 0.0002$
$i$ (deg.)	$86.71 \pm 0.26$	$86.93 \pm 0.15$	$86.65 \pm 0.07$	$86.63 \pm 0.06$	$86.50 \pm 0.06$
$u_A$	$0.828 \pm 0.023$	$0.754 \pm 0.013$	$0.703 \pm 0.007$	$0.618 \pm 0.006$	$0.561 \pm 0.0007$
$r_A$	$0.1131 \pm 0.0021$	$0.1112 \pm 0.0011$	$0.1133 \pm 0.0006$	$0.1134 \pm 0.0005$	$0.1146 \pm 0.0005$
$r_b$	$0.01384 \pm 0.00039$	$0.01352 \pm 0.00020$	$0.01387 \pm 0.00010$	$0.01387 \pm 0.00008$	$0.01406 \pm 0.00009$
$\sigma$ (mmag)	0.6568	0.3686	0.2238	0.1989	0.2067
$\chi^2_{\text{red}}$	1.0791	1.0700	1.0129	1.0843	1.0264
	580 nm	677 nm	775 nm	873 nm	970 nm
$r_A + r_b$	$0.1286 \pm 0.0005$	$0.1296 \pm 0.0004$	$0.1281 \pm 0.0006$	$0.1294 \pm 0.0008$	$0.1290 \pm 0.0010$
$k$	$0.12328 \pm 0.00017$	$0.12266 \pm 0.00013$	$0.12222 \pm 0.00015$	$0.12270 \pm 0.00042$	$0.12336 \pm 0.00024$
$i$ (deg.)	$86.48 \pm 0.05$	$86.38 \pm 0.04$	$86.49 \pm 0.06$	$86.37 \pm 0.07$	$86.39 \pm 0.10$
$u_A$	$0.534 \pm 0.006$	$0.437 \pm 0.006$	$0.377 \pm 0.008$	$0.324 \pm 0.011$	$0.275 \pm 0.016$
$r_A$	$0.1145 \pm 0.0004$	$0.1154 \pm 0.0004$	$0.1141 \pm 0.0005$	$0.1152 \pm 0.0007$	$0.1148 \pm 0.0009$
$r_b$	$0.01411 \pm 0.00007$	$0.01416 \pm 0.00006$	$0.01395 \pm 0.00008$	$0.01413 \pm 0.00010$	$0.01416 \pm 0.00013$
$\sigma$ (mmag)	0.2210	0.1861	0.2413	0.3161	0.4912
$\chi^2_{\text{red}}$	1.3139	1.0623	1.0866	1.0341	1.1273

**Table A24.** Parameters of the JKTEBOP best fits of the *HST* light curves of HD 209458 from Knutson et al. (2007c) ( $N_{\text{obs}} = 504$  for the five bluer passbands and  $N_{\text{obs}} = 548$  for the five redder passbands) for the quadratic LD law. The parameter symbols are as given in Section 2.2. For each part of the table the upper parameters are fitted quantities and the lower parameters are derived quantities.

	320 nm	375 nm	430 nm	484 nm	539 nm
$r_{\text{A}} + r_{\text{B}}$	$0.1271 \pm 0.0022$	$0.1248 \pm 0.0012$	$0.1271 \pm 0.0007$	$0.1272 \pm 0.0006$	$0.1277 \pm 0.0008$
$k$	$0.1249 \pm 0.0018$	$0.1221 \pm 0.0009$	$0.12249 \pm 0.0006$	$0.1223 \pm 0.0005$	$0.1213 \pm 0.0005$
$i$ (deg.)	$86.57 \pm 0.25$	$86.90 \pm 0.15$	$86.65 \pm 0.09$	$86.64 \pm 0.07$	$86.66 \pm 0.09$
$u_{\text{A}}$	$1.030 \pm 0.102$	$0.791 \pm 0.052$	$0.703 \pm 0.036$	$0.612 \pm 0.034$	$0.426 \pm 0.039$
$v_{\text{A}}$	$-0.384 \pm 0.182$	$-0.073 \pm 0.102$	$-0.001 \pm 0.068$	$0.009 \pm 0.062$	$0.248 \pm 0.092$
$r_{\text{A}}$	$0.1129 \pm 0.0018$	$0.1112 \pm 0.0010$	$0.1133 \pm 0.0006$	$0.1133 \pm 0.0005$	$0.1139 \pm 0.0007$
$r_{\text{B}}$	$0.01411 \pm 0.0004$	$0.01357 \pm 0.00021$	$0.01387 \pm 0.00013$	$0.01386 \pm 0.00010$	$0.01382 \pm 0.00013$
$\sigma$ (mmag)	0.6528	0.3683	0.2238	0.1989	0.2038
$\chi^2_{\text{red}}$	1.0695	1.0704	1.1315	1.0862	1.0027
	580 nm	677 nm	775 nm	873 nm	970 nm
$r_{\text{A}} + r_{\text{B}}$	$0.1281 \pm 0.0006$	$0.1288 \pm 0.0005$	$0.1271 \pm 0.0006$	$0.1283 \pm 0.0008$	$0.1272 \pm 0.0013$
$k$	$0.1227 \pm 0.0004$	$0.1218 \pm 0.0003$	$0.1211 \pm 0.0003$	$0.1214 \pm 0.0004$	$0.1215 \pm 0.0006$
$i$ (deg.)	$86.55 \pm 0.07$	$86.49 \pm 0.06$	$86.64 \pm 0.07$	$86.54 \pm 0.09$	$86.65 \pm 0.16$
$u_{\text{A}}$	$0.462 \pm 0.036$	$0.309 \pm 0.037$	$0.197 \pm 0.047$	$0.079 \pm 0.069$	$-0.078 \pm 0.098$
$v_{\text{A}}$	$0.126 \pm 0.063$	$0.214 \pm 0.061$	$0.299 \pm 0.078$	$0.400 \pm 0.114$	$0.581 \pm 0.164$
$r_{\text{A}}$	$0.1141 \pm 0.0005$	$0.1148 \pm 0.0004$	$0.1134 \pm 0.0005$	$0.1144 \pm 0.0007$	$0.1135 \pm 0.0011$
$r_{\text{B}}$	$0.01400 \pm 0.00009$	$0.0140 \pm 0.00008$	$0.01373 \pm 0.00009$	$0.01388 \pm 0.00012$	$0.01379 \pm 0.00019$
$\sigma$ (mmag)	0.2206	0.1846	0.2382	0.3122	0.4861
$\chi^2_{\text{red}}$	1.3088	1.0429	1.0593	1.0105	1.106



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