Table 1. Median values and 68% confidence interval for OGLE-TR-1011.

Parameter	Units	Values
Stellar Parameters:		
M_*	Mass ($M_\odot$)	$1.56^{+0.22}_{-0.17}$
R_*	Radius ($R_\odot$)	$1.94^{+0.42}_{-0.27}$
$R_{*,SED}$ ..	Radius[1] ($R_\odot$)	$1.97^{+0.38}_{-0.24}$
L_*	Luminosity ($L_\odot$)	$2.49^{+0.97}_{-0.60}$
F_{Bol}	Bolometric Flux (cgs)	$0.0000000000223^{+0.0000000000037}_{-0.0000000000028}$
ρ_*	Density (cgs)	0.31 ± 0.13
$\log g$	Surface gravity (cgs)	$4.070^{+0.086}_{-0.16}$
$T_{\rm eff}$	Effective Temperature (K)	5150^{+380}_{-300}
$T_{\rm eff,SED}$ ..	Effective Temperature[1] (K)	5120^{+340}_{-270}
[Fe/H]..	Metallicity (dex)	$0.31^{+0.20}_{-0.23}$
$[{\rm Fe/H}]_0$.	Initial Metallicity[2]	$0.25^{+0.18}_{-0.21}$
Age	Age (Gyr)	$0.0053^{+0.0060}_{-0.0031}$
EEP	Equal Evolutionary Phase[3]	173^{+14}_{-18}
A_V	V-band extinction (mag)	$1.74^{+0.27}_{-0.26}$
σ_{SED}	SED photometry error scaling	$6.44^{+1.0}_{-0.81}$
ϖ	Parallax (mas)	$0.536^{+0.066}_{-0.077}$
d	Distance (pc)	1870^{+310}_{-210}
Planetary Parameters:		b
P	Period (days)	$16.854160^{+0.000093}_{-0.00011}$
R_P	Radius ($R_{\rm J}$)	$1.52^{+0.42}_{-0.25}$
M_P	Mass[4] ($M_{\rm J}$)	134^{+43}_{-130}
T_C	Time of conjunction[5] ($\rm BJD_{TDB}$)	$2455389.1759^{+0.0090}_{-0.0093}$
T_T	Time of minimum projected separation[6] ($\rm BJD_{TDB}$)	$2455389.1759^{+0.0090}_{-0.0093}$
T_0	Optimal conjunction Time[7] ($\rm BJD_{TDB}$)	$2456602.6750^{+0.0052}_{-0.0058}$
a	Semi-major axis (AU)	$0.1525^{+0.0080}_{-0.0075}$
i	Inclination (Degrees)	$88.6^{+1.0}_{-1.3}$
T_{eq}	Equilibrium temperature[8] (K)	896^{+62}_{-51}
$\tau_{\rm circ}$	Tidal circularization timescale (Gyr)	8500^{+10000}_{-7600}
K	RV semi-amplitude[4] (m/s)	7300^{+2000}_{-7100}
R_P/R_* ..	Radius of planet in stellar radii	$0.0809^{+0.0046}_{-0.0039}$
a/R_* ...	Semi-major axis in stellar radii	$17.1^{+1.8}_{-2.8}$
δ	$\left(R_P/R_*\right)^2$	$0.00654^{+0.00076}_{-0.00062}$
$\delta_{\rm I}$	Transit depth in I (fraction)	$0.00765^{+0.00060}_{-0.00059}$
$\delta_{\rm V}$	Transit depth in V (fraction)	$0.00858^{+0.00080}_{-0.00076}$
τ	Ingress/egress transit duration (days)	$0.0277^{+0.015}_{-0.0052}$
T_{14}	Total transit duration (days)	$0.313^{+0.017}_{-0.014}$

Table 1 continued on next page

Table 1 *(continued)*

Parameter	Units	Values	
T_{FWHM} ..	FWHM transit duration (days)	0.282 ± 0.012	
b	Transit Impact parameter	$0.41^{+0.24}_{-0.29}$	
$\delta_{S,2.5\mu m}$ ..	Blackbody eclipse depth at 2.5μm (ppm)	$21.6^{+13}_{-7.1}$	
$\delta_{S,5.0\mu m}$ ..	Blackbody eclipse depth at 5.0μm (ppm)	201^{+67}_{-42}	
$\delta_{S,7.5\mu m}$ ..	Blackbody eclipse depth at 7.5μm (ppm)	384^{+110}_{-65}	
ρ_P	Density[4] (cgs)	32^{+18}_{-30}	
$logg_P$ ...	Surface gravity[4]	$5.080^{+0.089}_{-1.3}$	
Θ	Safronov Number	$16.3^{+1.7}_{-16}$	
$\langle F \rangle$	Incident Flux (10^9 erg s^{-1} cm^{-2})	$0.147^{+0.045}_{-0.031}$	
T_P	Time of Periastron (BJD$_{\rm TDB}$)	$2455389.1759^{+0.0090}_{-0.0093}$	
T_S	Time of eclipse (BJD$_{\rm TDB}$)	$2455380.7488^{+0.0090}_{-0.0093}$	
T_A	Time of Ascending Node (BJD$_{\rm TDB}$)	$2455401.8165^{+0.0089}_{-0.0093}$	
T_D	Time of Descending Node (BJD$_{\rm TDB}$)	$2455393.3894^{+0.0090}_{-0.0093}$	
V_c/V_e ...	.....	1.00	
$M_P \sin i$.	Minimum mass[4] ($M_{\rm J}$)	134^{+43}_{-130}	
M_P/M_* .	Mass ratio[4]	$0.079^{+0.023}_{-0.076}$	
d/R_* ...	Separation at mid transit	$17.1^{+1.8}_{-2.8}$	
P_T	A priori non-grazing transit prob	$0.0538^{+0.010}_{-0.0050}$	
$P_{T,G}$	A priori transit prob	$0.0632^{+0.013}_{-0.0061}$	
Wavelength Parameters:		I	V
u_1	linear limb-darkening coeff	$0.391^{+0.067}_{-0.074}$	$0.633^{+0.090}_{-0.098}$
u_2	quadratic limb-darkening coeff	$0.227^{+0.061}_{-0.059}$	$0.143^{+0.079}_{-0.078}$
Transit Parameters:		OGLE UT 2010-07-11 (I)	OGLE UT 2010-07-11 (V)
σ^2	Added Variance	$0.00003358^{+0.00000052}_{-0.00000051}$	$0.0000499^{+0.0000074}_{-0.0000065}$
F_0	Baseline flux	1.000152 ± 0.000054	$0.99899^{+0.00059}_{-0.00058}$

See Table 3 in Eastman, J. et al., 2019, arXiv:1907.09480 for a detailed description of all parameters

[1] This value ignores the systematic error and is for reference only

[2] The metallicity of the star at birth

[3] Corresponds to static points in a star's evolutionary history. See §2 in Dotter, A., 2016, ApJS, 222, 8

[4] Uses measured radius and estimated mass from Chen, J., & Kipping, D. 2017, ApJ, 834, 17

[5] Time of conjunction is commonly reported as the "transit time"

[6] Time of minimum projected separation is a more correct "transit time"

[7] Optimal time of conjunction minimizes the covariance between T_C and Period

[8] Assumes no albedo and perfect redistribution