Table 1. Median values and 68% confidence interval for OGLE-TR-1039.

Parameter	Units	Values
Stellar Parameters:		
M_*	Mass ($M_\odot$)	$1.63^{+0.18}_{-0.24}$
R_*	Radius ($R_\odot$)	$2.12^{+0.21}_{-0.15}$
$R_{*,SED}$ . .	Radius[1] ($R_\odot$)	$2.19^{+0.22}_{-0.17}$
L_*	Luminosity ($L_\odot$)	$8.3^{+2.9}_{-2.1}$
F_{Bol}	Bolometric Flux (cgs)	$0.0000000000482^{+0.000000000011}_{-0.0000000000084}$
ρ_*	Density (cgs)	$0.238^{+0.071}_{-0.078}$
$\log g$	Surface gravity (cgs)	$3.992^{+0.084}_{-0.13}$
$T_{\rm eff}$	Effective Temperature (K)	6700^{+480}_{-430}
$T_{\rm eff,SED}$ . .	Effective Temperature[1] (K)	6610^{+450}_{-440}
[Fe/H] . .	Metallicity (dex)	$0.08^{+0.22}_{-0.21}$
$[Fe/H]_0$.	Initial Metallicity[2]	$0.19^{+0.21}_{-0.22}$
Age	Age (Gyr)	$1.49^{+1.4}_{-0.64}$
EEP	Equal Evolutionary Phase[3]	368^{+43}_{-24}
A_V	V-band extinction (mag)	$1.84^{+0.24}_{-0.26}$
σ_{SED}	SED photometry error scaling	$10.4^{+1.5}_{-1.2}$
ϖ	Parallax (mas)	$0.431^{+0.035}_{-0.038}$
d	Distance (pc)	2320^{+220}_{-170}
Planetary Parameters:		b
P	Period (days)	$9.158188^{+0.000038}_{-0.000037}$
R_P	Radius ($R_{\rm J}$)	$1.167^{+0.15}_{-0.096}$
M_P	Mass[4] ($M_{\rm J}$)	26^{+54}_{-22}
T_C	Time of conjunction[5] (BJD$_{\rm TDB}$)	$2455380.9316^{+0.0070}_{-0.0077}$
T_T	Time of minimum projected separation[6] (BJD$_{\rm TDB}$)	$2455380.9316^{+0.0070}_{-0.0077}$
T_0	Optimal conjunction Time[7] (BJD$_{\rm TDB}$)	$2456983.6146^{+0.0038}_{-0.0043}$
a	Semi-major axis (AU)	$0.1017^{+0.0037}_{-0.0052}$
i	Inclination (Degrees)	$85.53^{+0.62}_{-0.91}$
T_{eq}	Equilibrium temperature[8] (K)	1485^{+91}_{-78}
$\tau_{\rm circ}$	Tidal circularization timescale (Gyr)	850^{+1600}_{-760}
K	RV semi-amplitude[4] (m/s)	1800^{+3700}_{-1600}
R_P/R_* . .	Radius of planet in stellar radii	$0.0570^{+0.0025}_{-0.0024}$
a/R_* . . .	Semi-major axis in stellar radii	$10.24^{+0.94}_{-1.2}$
δ	$(R_P/R_*)^2$	$0.00325^{+0.00029}_{-0.00027}$
$\delta_{\rm I}$	Transit depth in I (fraction)	$0.00320^{+0.00024}_{-0.00023}$
$\delta_{\rm V}$	Transit depth in V (fraction)	$0.00314^{+0.00022}_{-0.00023}$
τ	Ingress/egress transit duration (days)	$0.0272^{+0.0093}_{-0.0050}$
T_{14}	Total transit duration (days)	$0.1984^{+0.011}_{-0.0094}$

Table 1 *(continued)*

Parameter	Units	Values		
T_{FWHM} ..	FWHM transit duration (days)	$0.1695^{+0.010}_{-0.0090}$		
b	Transit Impact parameter	$0.800^{+0.051}_{-0.052}$		
$\delta_{S,2.5\mu m}$ ..	Blackbody eclipse depth at $2.5\mu m$ (ppm)	92^{+21}_{-14}		
$\delta_{S,5.0\mu m}$ ..	Blackbody eclipse depth at $5.0\mu m$ (ppm)	290^{+47}_{-32}		
$\delta_{S,7.5\mu m}$ ..	Blackbody eclipse depth at $7.5\mu m$ (ppm)	404^{+62}_{-41}		
ρ_P	Density[4] (cgs)	22^{+36}_{-20}		
$logg_P$ ...	Surface gravity[4]	$4.71^{+0.46}_{-0.91}$		
Θ	Safronov Number	$2.9^{+6.6}_{-2.5}$		
$\langle F \rangle$	Incident Flux (10^9 erg s^{-1} cm^{-2})	$1.11^{+0.30}_{-0.22}$		
T_P	Time of Periastron (BJD$_{TDB}$)	$2455380.9316^{+0.0070}_{-0.0077}$		
T_S	Time of eclipse (BJD$_{TDB}$)	$2455376.3525^{+0.0070}_{-0.0077}$		
T_A	Time of Ascending Node (BJD$_{TDB}$)	$2455387.8002^{+0.0070}_{-0.0076}$		
T_D	Time of Descending Node (BJD$_{TDB}$)	$2455383.2211^{+0.0070}_{-0.0077}$		
V_c/V_e ...	....	1.00		
$M_P \sin i$.	Minimum mass[4] (M_J)	25^{+54}_{-22}		
M_P/M_* .	Mass ratio[4]	$0.016^{+0.033}_{-0.013}$		
d/R_* ...	Separation at mid transit	$10.24^{+0.94}_{-1.2}$		
P_T	A priori non-grazing transit prob	$0.0921^{+0.012}_{-0.0077}$		
$P_{T,G}$	A priori transit prob	$0.1032^{+0.014}_{-0.0087}$		
Wavelength Parameters:		I	V	
u_1	linear limb-darkening coeff	$0.177^{+0.052}_{-0.046}$	$0.336^{+0.055}_{-0.049}$	
u_2	quadratic limb-darkening coeff	0.321 ± 0.039	$0.324^{+0.040}_{-0.043}$	
Transit Parameters:		OGLE UT 2010-03-06 (I)	OGLE UT 2010-03-06 (V)	OGLE UT 2010-07-03
σ^2	Added Variance	$0.00001166^{+0.00000022}_{-0.00000021}$	$0.0000337^{+0.0000044}_{-0.0000038}$	$0.00001166^{+0.00000022}_{-0.00000021}$
F_0	Baseline flux	$1.000056^{+0.000036}_{-0.000035}$	1.00022 ± 0.00044	1.000057 ± 0.000035

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