Table 1. Median values and 68% confidence interval for OGLE-TR-1075.

Parameter	Units	Values
Stellar Parameters:		
M_*	Mass ($M_\odot$)	$0.788^{+0.045}_{-0.025}$
R_*	Radius ($R_\odot$)	$1.576^{+0.074}_{-0.057}$
$R_{*,SED}$ ..	Radius[1] ($R_\odot$)	$1.698^{+0.099}_{-0.089}$
L_*	Luminosity ($L_\odot$)	$4.48^{+0.90}_{-0.67}$
F_{Bol}	Bolometric Flux (cgs)	$0.0000000000284^{+0.0000000000051}_{-0.0000000000038}$
ρ_*	Density (cgs)	$0.288^{+0.031}_{-0.037}$
$\log g$	Surface gravity (cgs)	$3.944^{+0.032}_{-0.041}$
$T_{\rm eff}$	Effective Temperature (K)	6680^{+280}_{-240}
$T_{\rm eff,SED}$ ..	Effective Temperature[1] (K)	6450^{+300}_{-250}
[Fe/H]..	Metallicity (dex)	$-4.15^{+0.47}_{-0.11}$
$[{\rm Fe/H}]_0$.	Initial Metallicity[2]	$-3.60^{+0.46}_{-0.14}$
Age	Age (Gyr)	$11.9^{+1.4}_{-2.1}$
EEP	Equal Evolutionary Phase[3]	$444.2^{+4.4}_{-3.6}$
A_V	V-band extinction (mag)	$1.97^{+0.23}_{-0.29}$
σ_{SED}	SED photometry error scaling	$10.5^{+1.5}_{-1.2}$
ϖ	Parallax (mas)	0.445 ± 0.025
d	Distance (pc)	2250^{+130}_{-120}
Planetary Parameters:		b
P	Period (days)	$30.55566^{+0.00015}_{-0.00014}$
R_P	Radius ($R_{\rm J}$)	$1.929^{+0.11}_{-0.072}$
M_P	Mass[4] ($M_{\rm J}$)	$0.4034^{+0.0079}_{-0.016}$
T_C	Time of conjunction[5] ($\rm BJD_{TDB}$)	$2455390.5425^{+0.0078}_{-0.0085}$
T_T	Time of minimum projected separation[6] ($\rm BJD_{TDB}$)	$2455390.5425^{+0.0078}_{-0.0085}$
T_0	Optimal conjunction Time[7] ($\rm BJD_{TDB}$)	$2456887.7697^{+0.0039}_{-0.0041}$
a	Semi-major axis (AU)	$0.1767^{+0.0033}_{-0.0019}$
i	Inclination (Degrees)	$89.46^{+0.36}_{-0.41}$
T_{eq}	Equilibrium temperature[8] (K)	962^{+40}_{-36}
$\tau_{\rm circ}$	Tidal circularization timescale (Gyr)	106^{+21}_{-25}
K	RV semi-amplitude[4] (m/s)	$30.4^{+1.1}_{-1.5}$
R_P/R_* ..	Radius of planet in stellar radii	$0.1261^{+0.0022}_{-0.0021}$
a/R_* ...	Semi-major axis in stellar radii	$24.22^{+0.85}_{-1.1}$
δ	$\left(R_P/R_*\right)^2$	$0.01591^{+0.00055}_{-0.00052}$
$\delta_{\rm I}$	Transit depth in I (fraction)	$0.01783^{+0.00058}_{-0.00056}$
$\delta_{\rm V}$	Transit depth in V (fraction)	$0.01879^{+0.00077}_{-0.00074}$
τ	Ingress/egress transit duration (days)	$0.0519^{+0.0061}_{-0.0027}$
T_{14}	Total transit duration (days)	$0.441^{+0.010}_{-0.011}$

Table 1 continued on next page

Table 1 *(continued)*

Parameter	Units	Values	
T_{FWHM} ..	FWHM transit duration (days)	$0.3882^{+0.0095}_{-0.010}$	
b	Transit Impact parameter	0.23 ± 0.15	
$\delta_{S,2.5\mu m}$ ..	Blackbody eclipse depth at 2.5μm (ppm)	$55.2^{+12}_{-9.6}$	
$\delta_{S,5.0\mu m}$ ..	Blackbody eclipse depth at 5.0μm (ppm)	452^{+48}_{-40}	
$\delta_{S,7.5\mu m}$ ..	Blackbody eclipse depth at 7.5μm (ppm)	832^{+64}_{-52}	
ρ_P	Density[4] (cgs)	$0.0688^{+0.0085}_{-0.010}$	
$logg_P$ ...	Surface gravity[4]	$2.424^{+0.035}_{-0.047}$	
Θ	Safronov Number	$0.0918^{+0.0058}_{-0.0064}$	
$\langle F \rangle$	Incident Flux (10^9 erg s^{-1} cm^{-2})	$0.195^{+0.035}_{-0.027}$	
T_P	Time of Periastron (BJD$_{\rm TDB}$)	$2455390.5425^{+0.0078}_{-0.0085}$	
T_S	Time of eclipse (BJD$_{\rm TDB}$)	$2455405.8203^{+0.0078}_{-0.0085}$	
T_A	Time of Ascending Node (BJD$_{\rm TDB}$)	$2455413.4592^{+0.0077}_{-0.0084}$	
T_D	Time of Descending Node (BJD$_{\rm TDB}$)	$2455398.1814^{+0.0078}_{-0.0085}$	
V_c/V_e ...	.....	1.00	
$M_P \sin i$.	Minimum mass[4] ($M_{\rm J}$)	$0.4033^{+0.0079}_{-0.016}$	
M_P/M_* .	Mass ratio[4]	$0.000483^{+0.000022}_{-0.000031}$	
d/R_* ...	Separation at mid transit	$24.22^{+0.85}_{-1.1}$	
P_T	A priori non-grazing transit prob	$0.0361^{+0.0017}_{-0.0013}$	
$P_{T,G}$	A priori transit prob	$0.0465^{+0.0023}_{-0.0016}$	
Wavelength Parameters:		I	V
u_1	linear limb-darkening coeff	0.233 ± 0.050	0.331 ± 0.050
u_2	quadratic limb-darkening coeff	$0.315^{+0.049}_{-0.050}$	$0.303^{+0.049}_{-0.050}$
Transit Parameters:		OGLE UT 2010-07-13 (I)	OGLE UT 2010-07-13 (V)
σ^2	Added Variance	$0.00003096 \pm 0.00000047$	$0.0000289^{+0.0000044}_{-0.0000039}$
F_0	Baseline flux	$1.000252^{+0.000054}_{-0.000053}$	1.00014 ± 0.00045

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