Table 1. Median values and 68% confidence interval for OGLE-TR-1028.

Parameter	Units	Values
Stellar Parameters:		
M_*	Mass ($M_\odot$)	$1.11^{+0.19}_{-0.14}$
R_*	Radius ($R_\odot$)	$2.06^{+0.23}_{-0.16}$
$R_{*,SED}$ ..	Radius[1] ($R_\odot$)	$2.13^{+0.24}_{-0.20}$
L_*	Luminosity ($L_\odot$)	$3.01^{+1.5}_{-0.73}$
F_{Bol}	Bolometric Flux (cgs)	$0.000000000076^{+0.000000000021}_{-0.000000000013}$
ρ_*	Density (cgs)	$0.177^{+0.055}_{-0.046}$
$\log g$	Surface gravity (cgs)	$3.854^{+0.085}_{-0.095}$
$T_{\rm eff}$	Effective Temperature (K)	5290^{+510}_{-330}
$T_{\rm eff,SED}$ ..	Effective Temperature[1] (K)	5230^{+490}_{-350}
[Fe/H] ..	Metallicity (dex)	$0.22^{+0.23}_{-0.26}$
$[{\rm Fe/H}]_0$.	Initial Metallicity[2]	$0.21^{+0.21}_{-0.25}$
Age	Age (Gyr)	$8.2^{+3.9}_{-3.4}$
EEP	Equal Evolutionary Phase[3]	$466.3^{+6.7}_{-11}$
A_V	V-band extinction (mag)	$1.16^{+0.38}_{-0.33}$
σ_{SED}	SED photometry error scaling	$14.5^{+2.5}_{-1.8}$
ϖ	Parallax (mas)	$0.884^{+0.085}_{-0.091}$
d	Distance (pc)	1130^{+130}_{-99}
Planetary Parameters:		b
P	Period (days)	$0.74714108^{+0.00000073}_{-0.00000077}$
R_P	Radius ($R_{\rm J}$)	$1.40^{+0.22}_{-0.14}$
M_P	Mass[4] ($M_{\rm J}$)	$1.07^{+15}_{-0.67}$
T_C	Time of conjunction[5] ($\rm BJD_{TDB}$)	$2455376.7574^{+0.0018}_{-0.0019}$
T_T	Time of minimum projected separation[6] ($\rm BJD_{TDB}$)	$2455376.7574^{+0.0018}_{-0.0019}$
T_0	Optimal conjunction Time[7] ($\rm BJD_{TDB}$)	2456831.4411 ± 0.0011
a	Semi-major axis (AU)	$0.01676^{+0.00090}_{-0.00074}$
i	Inclination (Degrees)	$60.3^{+4.1}_{-5.2}$
T_{eq}	Equilibrium temperature[8] (K)	2830^{+240}_{-160}
$\tau_{\rm circ}$	Tidal circularization timescale (Gyr)	$0.00020^{+0.0051}_{-0.00017}$
K	RV semi-amplitude[4] (m/s)	200^{+2700}_{-130}
R_P/R_* ..	Radius of planet in stellar radii	$0.0699^{+0.0032}_{-0.0025}$
a/R_* ...	Semi-major axis in stellar radii	1.74 ± 0.17
δ	$\left(R_P/R_*\right)^2$	$0.00489^{+0.00045}_{-0.00034}$
$\delta_{\rm I}$	Transit depth in I (fraction)	$0.00432^{+0.00020}_{-0.00021}$
$\delta_{\rm V}$	Transit depth in V (fraction)	$0.00390^{+0.00037}_{-0.00060}$
τ	Ingress/egress transit duration (days)	$0.0239^{+0.012}_{-0.0060}$
T_{14}	Total transit duration (days)	$0.1027^{+0.0084}_{-0.0064}$

Table 1 continued on next page

Table 1 *(continued)*

Parameter	Units	Values	
T_{FWHM} ..	FWHM transit duration (days)	$0.0777^{+0.0037}_{-0.0046}$	
b	Transit Impact parameter	$0.864^{+0.039}_{-0.041}$	
$\delta_{S,2.5\mu m}$ ..	Blackbody eclipse depth at 2.5μm (ppm)	1450^{+310}_{-200}	
$\delta_{S,5.0\mu m}$ ..	Blackbody eclipse depth at 5.0μm (ppm)	2000^{+330}_{-230}	
$\delta_{S,7.5\mu m}$ ..	Blackbody eclipse depth at 7.5μm (ppm)	2200^{+340}_{-240}	
ρ_P	Density[4] (cgs)	$0.51^{+9.9}_{-0.39}$	
$logg_P$ ...	Surface gravity[4]	$3.15^{+1.3}_{-0.56}$	
Θ	Safronov Number	$0.024^{+0.36}_{-0.016}$	
$\langle F \rangle$	Incident Flux (10^9 erg s^{-1} cm^{-2})	$14.5^{+5.7}_{-3.0}$	
T_P	Time of Periastron (BJD$_{\rm TDB}$)	$2455376.7574^{+0.0018}_{-0.0019}$	
T_S	Time of eclipse (BJD$_{\rm TDB}$)	$2455376.3839^{+0.0018}_{-0.0019}$	
T_A	Time of Ascending Node (BJD$_{\rm TDB}$)	$2455377.3178^{+0.0018}_{-0.0019}$	
T_D	Time of Descending Node (BJD$_{\rm TDB}$)	$2455376.9442^{+0.0018}_{-0.0019}$	
V_c/V_e ...	.....	1.00	
$M_P \sin i$.	Minimum mass[4] ($M_{\rm J}$)	$0.93^{+13}_{-0.61}$	
M_P/M_* .	Mass ratio[4]	$0.00093^{+0.013}_{-0.00060}$	
d/R_* ...	Separation at mid transit	1.74 ± 0.17	
P_T	A priori non-grazing transit prob	$0.534^{+0.055}_{-0.045}$	
$P_{T,G}$	A priori transit prob	$0.615^{+0.067}_{-0.054}$	
Wavelength Parameters:		I	V
u_1	linear limb-darkening coeff	$0.372^{+0.074}_{-0.092}$	$0.58^{+0.10}_{-0.12}$
u_2	quadratic limb-darkening coeff	$0.256^{+0.066}_{-0.061}$	$0.173^{+0.090}_{-0.084}$
Transit Parameters:		OGLE UT 2010-06-29 (I)	OGLE UT 2010-06-29 (V)
σ^2	Added Variance	$0.00001970^{+0.00000029}_{-0.00000031}$	$0.000112^{+0.000012}_{-0.000011}$
F_0	Baseline flux	$1.000142^{+0.000045}_{-0.000047}$	0.99959 ± 0.00075

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