



Erratum: “TOI-2076 and TOI-1807: Two Young, Comoving Planetary Systems within 50 pc Identified by TESS that are Ideal Candidates for Further Follow Up” (2021, AJ, 162, 54)

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Received 2021 December 10; published 2022 February 23

1. Erratum

In the original paper the reported planet radii are incorrect: the planet radii (R_p) were too large by a factor of the stellar radius in solar units (R_*/R_\odot). The quoted values in the abstract, Tables 4 and 5, and Paragraph 2 of Section 7 should be for TOI-2076, $R_b = 2.5^{+0.06}_{-0.06} R_\oplus$, $R_c = 3.38^{+0.08}_{-0.08} R_\oplus$, and $R_d = 3.16^{+0.08}_{-0.09} R_\oplus$, and for TOI-1807, $R_b = 1.258^{+0.04}_{-0.039} R_\oplus$. In Tables 4 and 5, the Planet

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Radius/Star Radius, (R_p/R_*) should be $0.03009 \pm_{-0.00039}^{+0.00039}$, $0.04069 \pm_{-0.00042}^{+0.00042}$, and $0.038 \pm_{-0.0006}^{+0.0006}$ for TOI-2076b, c and d, respectively, and $0.01695 \pm_{-0.00039}^{+0.00039}$ for TOI-1807 b.

We update Figure 12 to the following, and in Section 7, Paragraph 4, we update the text to: “We found that the average planet radius and the sum of planetary radii in the TOI-2076 system are larger than 83% and 86% of the equivalent values in confirmed multiplanet systems, respectively.” In Section 7, Paragraph 9, the text should read; “We found that TOI-1807b is the seventh most favorable USP for the detection of mid-IR thermal emission (Table 6 and Figure 13).” Since the original publication date, further TESS discoveries now mean TOI-1807b is the tenth most favorable small USP for phase-curve observations.

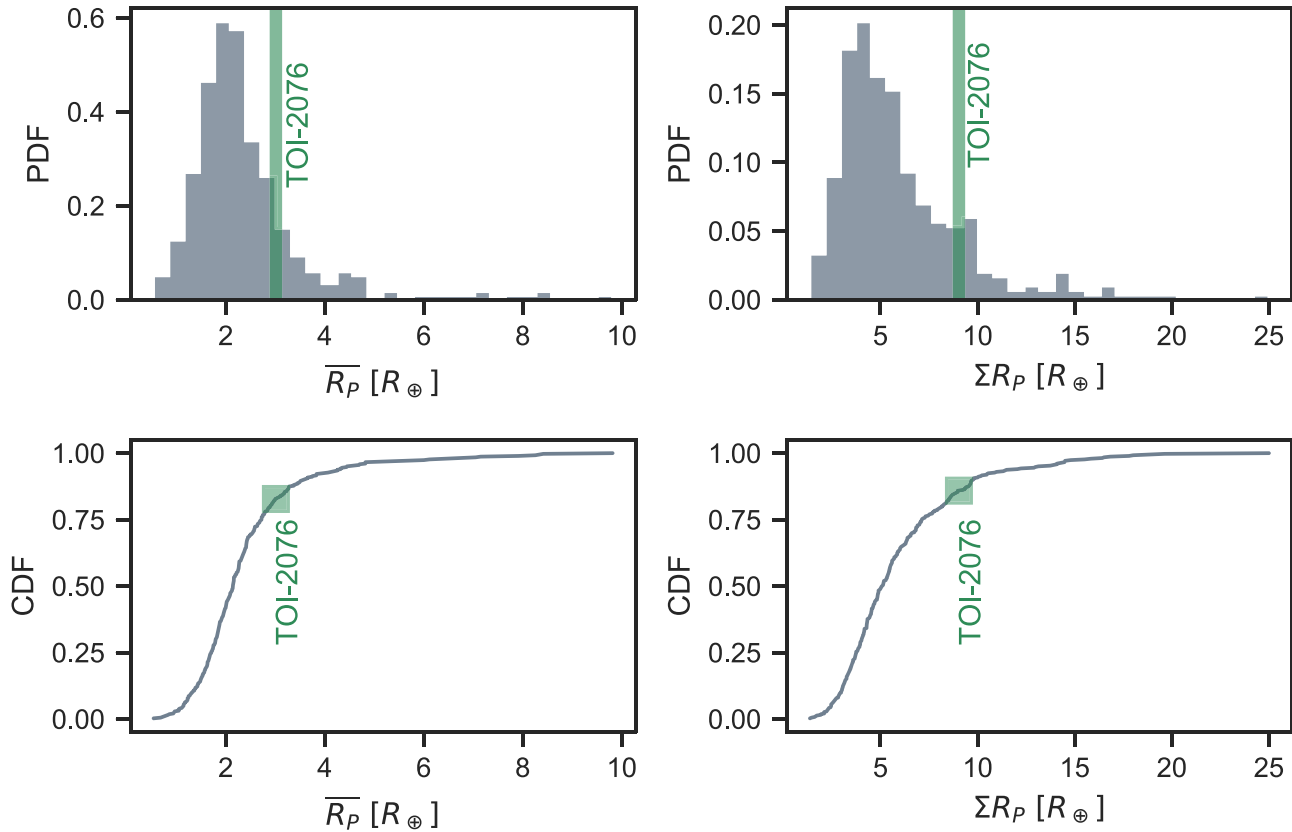


Figure 12. Probability distribution functions (top row) and cumulative distribution functions (bottom row) for the average planet size (left column) and sum of planet sizes in confirmed multitransiting systems around GK stars.

Table 6
JWST Emission Spectroscopy Metric for the Most Favorable
Ultrashort Period Planets

Planet Name	ESM
55 Cnc e	101.0
LHS 3844 b	51.4
GJ 1252 b	26.6
LTT 3780 b	23.3
K2-141 b	21.5
HD 3167 b	20.0
TOI-1807 b	17.6
LP 791-18 b	12.2
TOI-561 b	11.5
K2-131 b	9.7

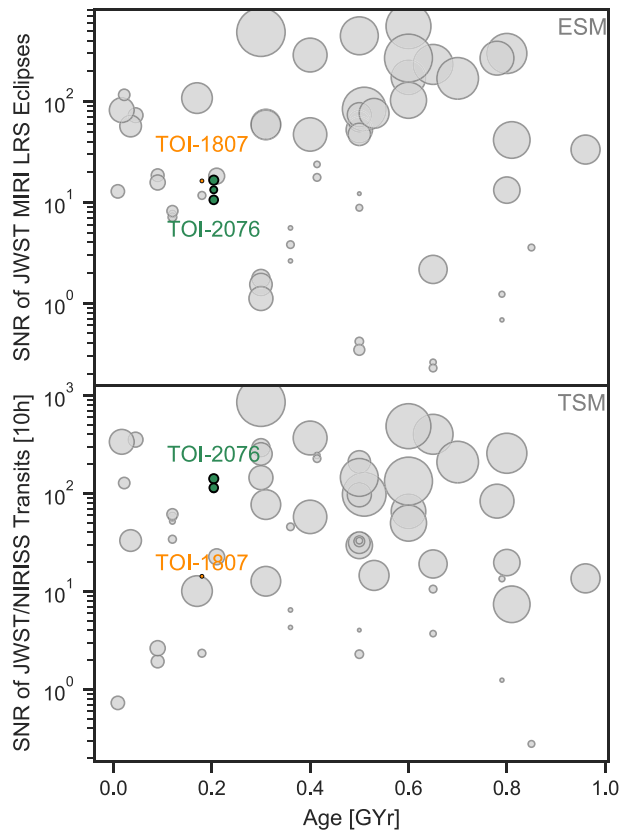





































Figure 13. The emission spectroscopy metric (ESM) and Transmission spectroscopy metric (TSM) from Kempton et al. (2018) for the sample of confirmed, young, transiting exoplanets (gray), highlighting TOI-2076 and TOI-1807. Points are scaled to represent the relative sizes of each planet. Top: ESM as a function of stellar age, not accounting for any residual heat due to formation. TOI-1807 Shows a high signal to noise value, pointing to a possible detectable secondary eclipse, despite TOI-1807b being a small planet. Bottom: TSM as a function of age. The planets in TOI-2076 show a high TSM compared to other known young transiting planets, indicating these are excellent candidates for follow up with JWST.

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