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Title: A Relation between Mass and Radius for 59 Exoplanets with $R < 4R\oplus$
Type: Poster
Session: Earth Analogues and Super-Earths
Abstract: We study the masses and radii of the 59 known exoplanets that have radii less than $4R\oplus$. We find a linear relation of the form $M \approx 3R$. The RMS of planet masses is $5M\oplus$, and our best fit has reduced $\chi 2 = 4.3$, indicating a large diversity in planet compositions below $4R\oplus$. Wu & Lithwick (2013), who also find $M \approx 3R$, note that the linear scaling is consistent with a constant escape velocity.