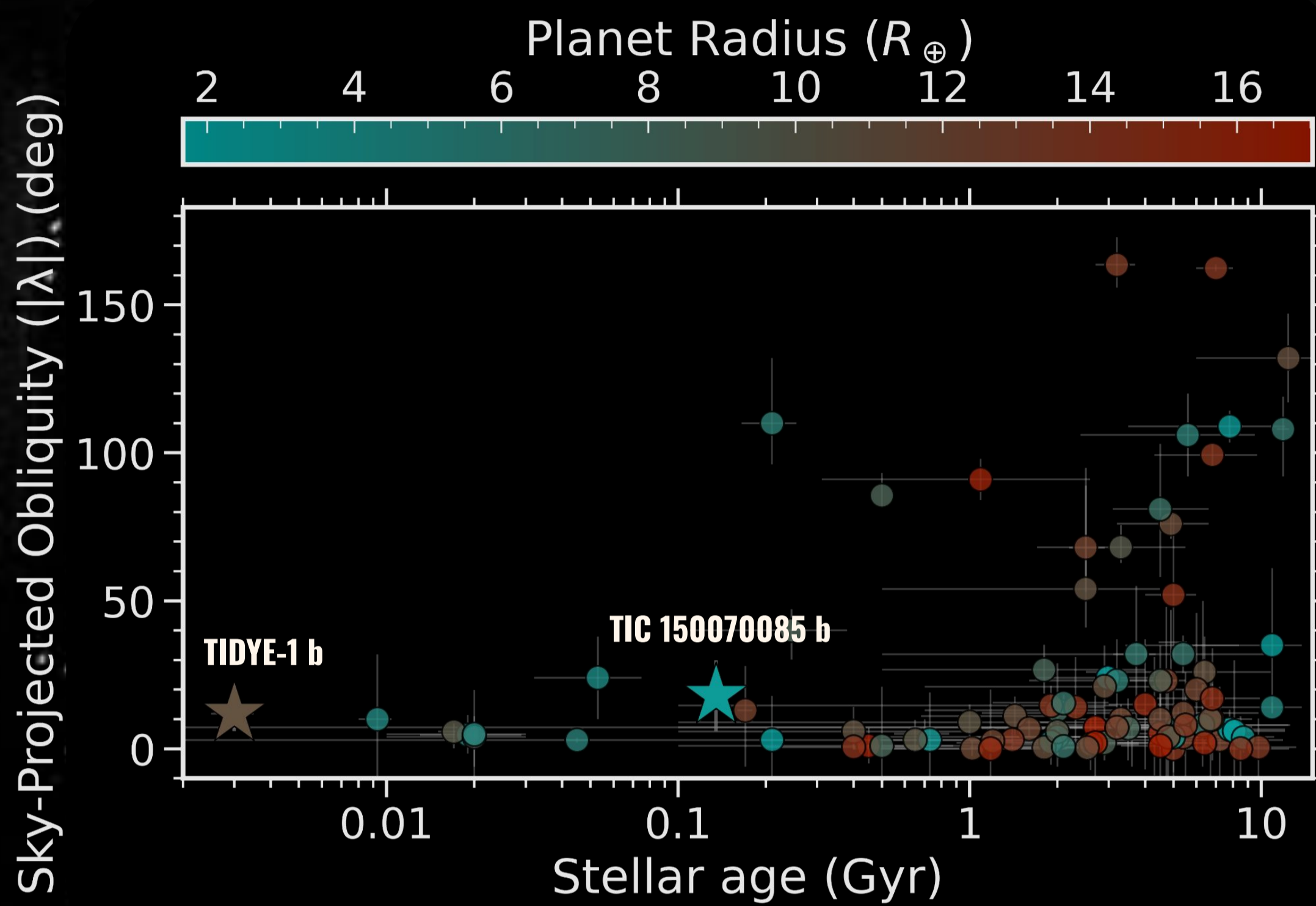


THE SOYSAUCE ZONE

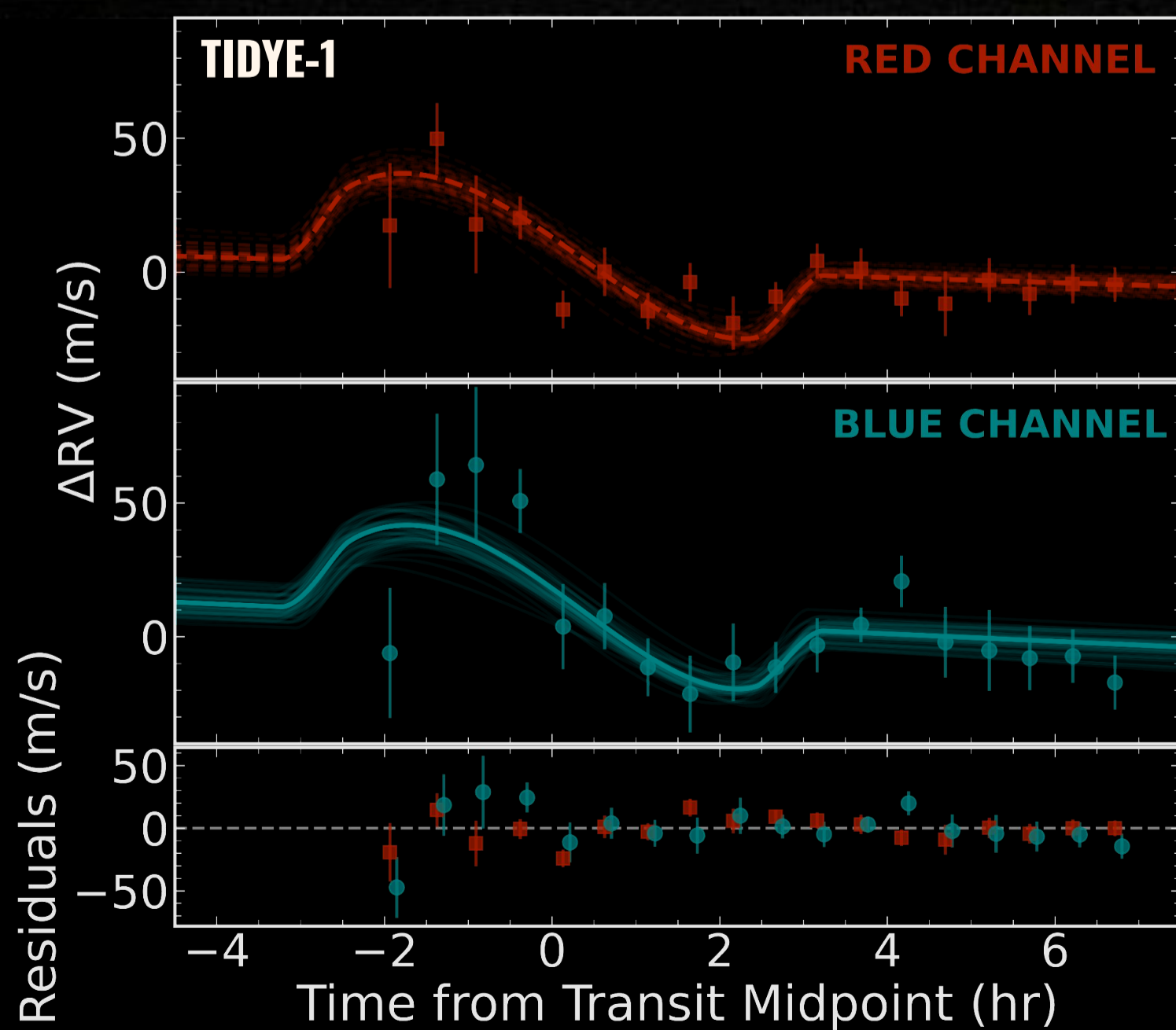
*Stellar Obliquities of
Young Systems,
Atmospheres Undergoing
Contraction and Escape*

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Distribution of sky-projected stellar obliquities for planetary systems with age determinations. Young planets (<100 Myr) tend to be aligned with their hosts, but mature systems (>1 Gyr) show a wide range of (mis)alignments.

With just 5–10 additional young obliquity measurements, we will be able to statistically differentiate between a uniform and an age-evolving misalignment distribution, revealing how systems transition from youth to maturity.



RVs from MAROON-X observations of transits of TIDYE-1 b (left) and TIC 150070085 b (right). Both show an RM signal with stellar obliquities consistent with alignment.

