
EAPS Planetary Lunch Colloquium Series (PICS)

Dr. Johanna K. Teske

Tuesday, March 6th

Hubble Postdoctoral Fellow

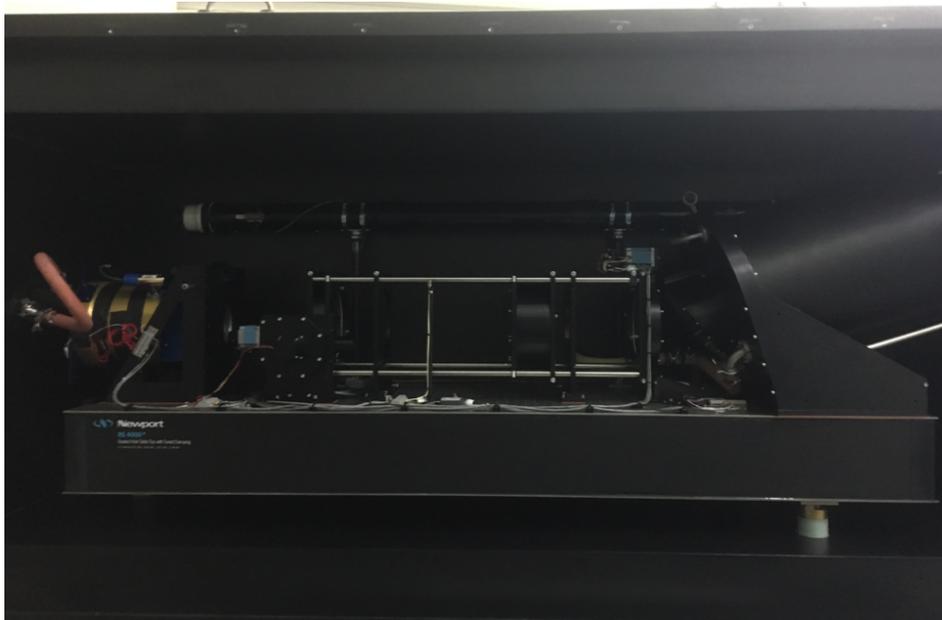
12:30pm

Carnegie Institute, Department of Terrestrial Magnetism

54-517

Two Tales of the Planet Finder Spectrograph

This talk will cover two tales of the Carnegie Planet Finder Spectrograph (PFS)—one introductory, the other cautionary. First, I will briefly review the history and status of PFS, designed to survey the closest, least active FGKM stars to find terrestrial-mass planets that are amenable to follow-up with next-generation telescopes. We are in the process of making some instrument upgrades (see image below) with the goal of demonstrably improving the RV precision of PFS in preparation for TESS. Second, I will highlight our most recent paper, constraining the masses of the transiting planets around GJ 9827. This study demonstrates the caution required when jointly interpreting precision RV and precision photometric observations in the context of planet detection, and both brings to light and calls into question the utility of sparsely-sampled archival RV observations.



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