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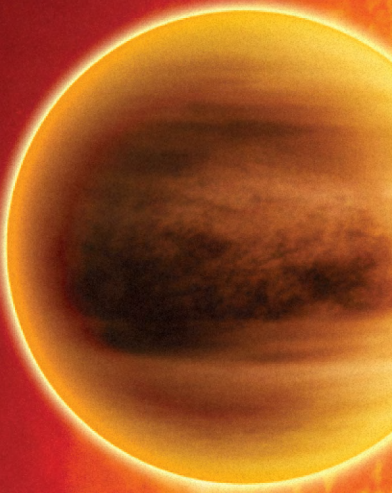


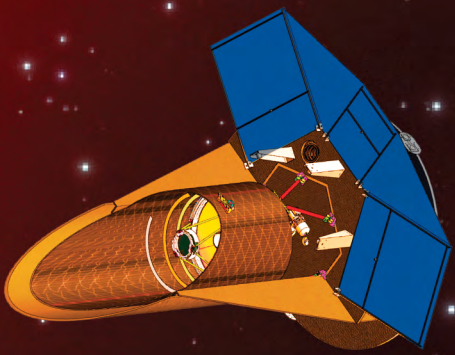
FINESSE

Exploring New Worlds Around Other Stars

National Aeronautics and
Space Administration

Fast INfrared Exoplanet Spectroscopy Survey Explorer

- The first mission dedicated to characterizing the diverse & rapidly growing exoplanet family
- Proposed for launch in 2016
- Probe the atmospheres of 200 transiting exoplanets using an Earth-orbiting telescope equipped with a highly stable infrared spectrograph
- Explore newly discovered worlds, ranging from hot Jupiter-like planets to super Earths, with repeated detections of important molecules over the course of each planet's orbit
- Measurements from 0.7 - 5μm will reveal the composition, temperature structure, and chemistry of exoplanet atmospheres
- Provides a basis for comparing exoplanets in a uniform way



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