

Exoplanets

Measuring Tiny Doppler Shifts

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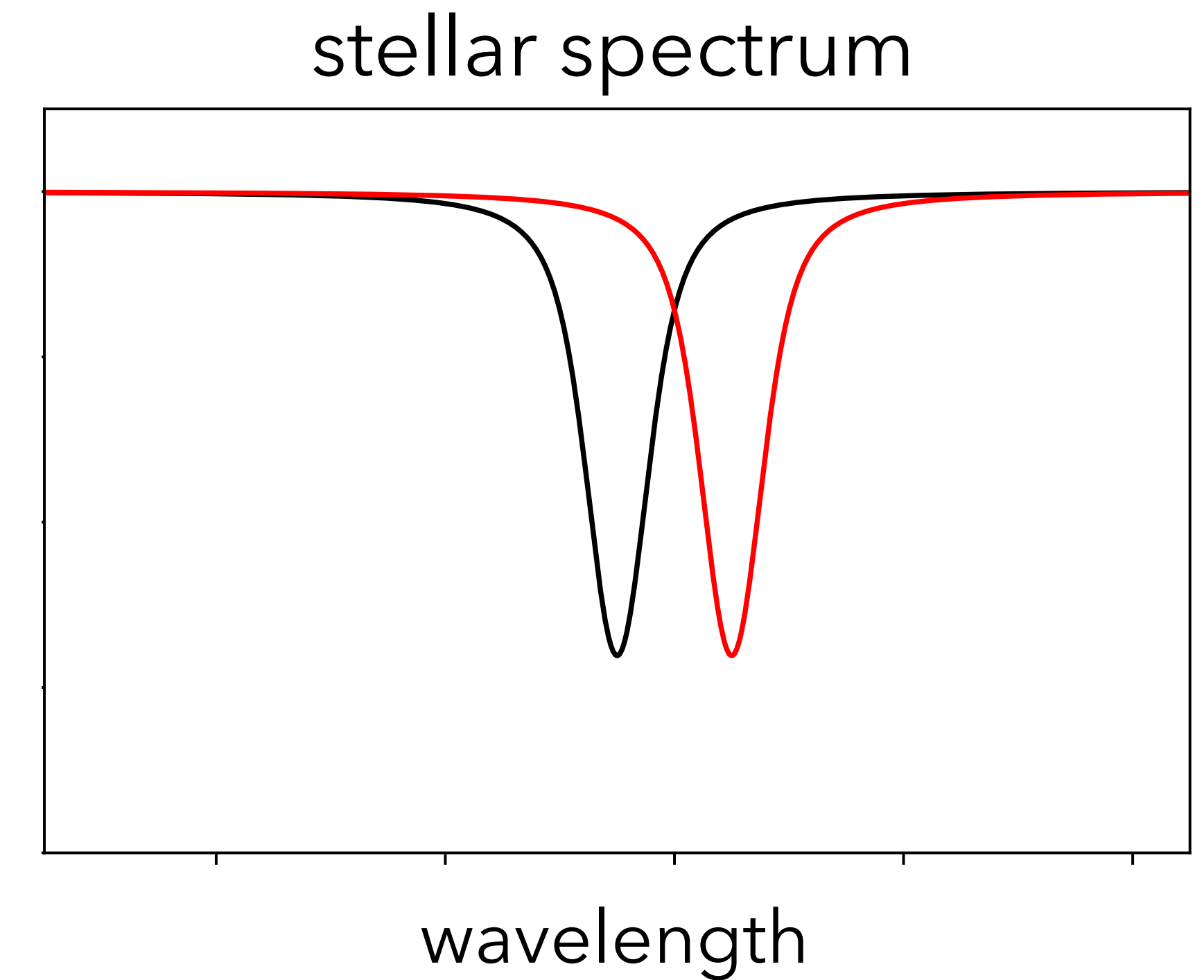
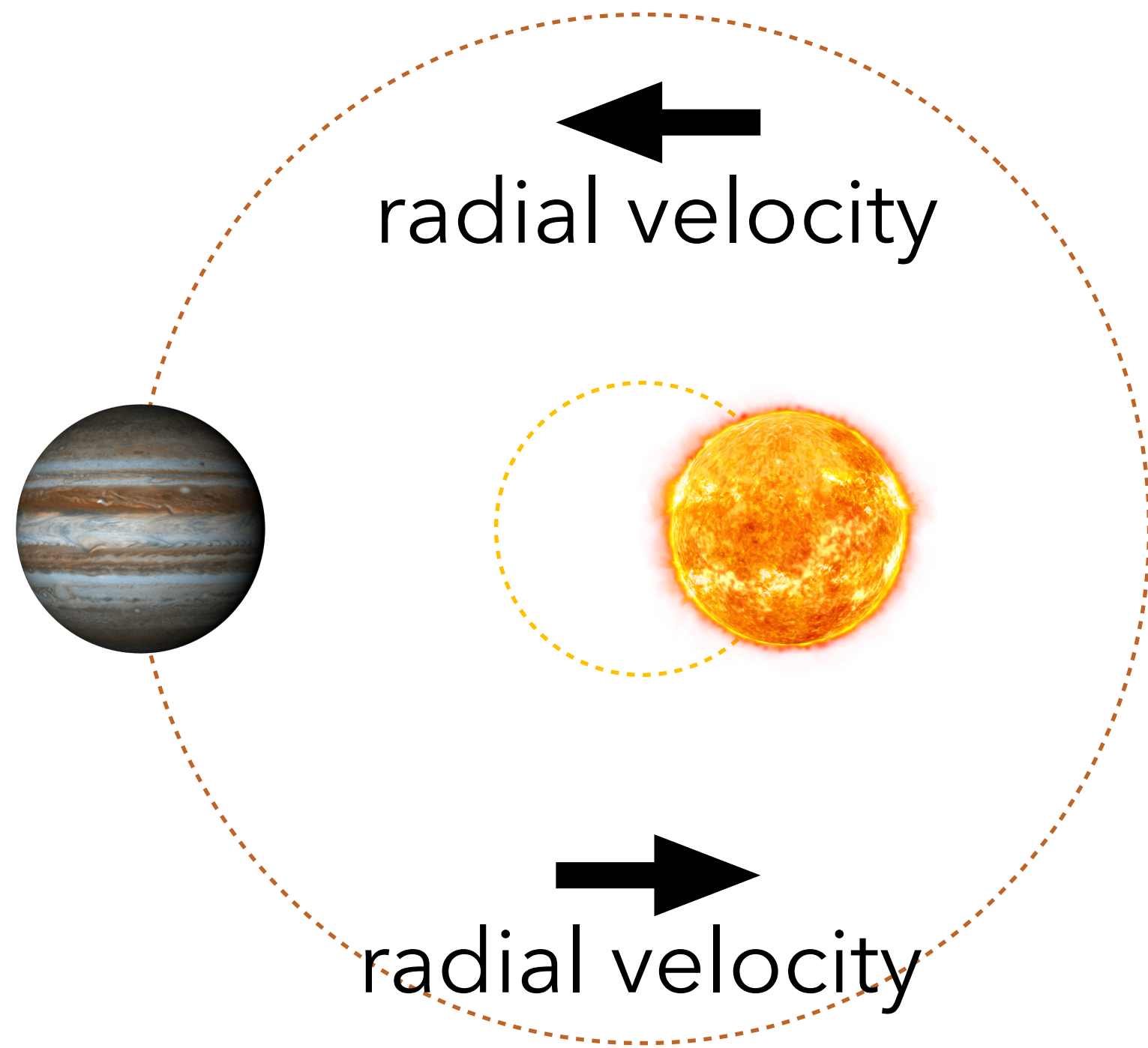
exoplanets.astro.yale.edu



Debra Fischer (PI)
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Gary Muller
Fernando Santoro
Ryan Petersburg

Joel Ong
Lily Zhao
Allen Davis
Jessi Cisewski
Parker Holzer
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Bo Ning
Christopher Leet

The Doppler Method of Detecting Exoplanets



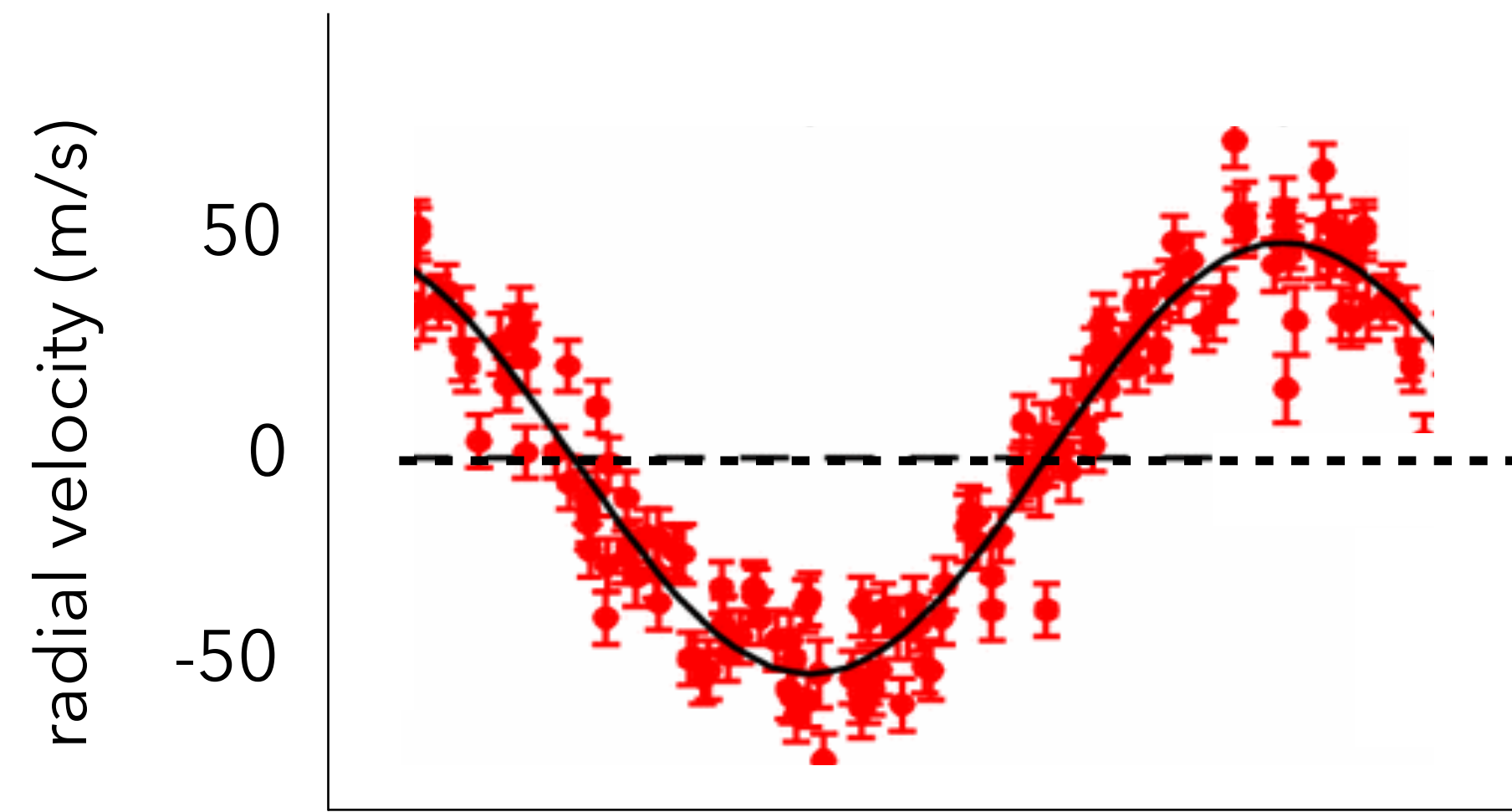
EXtreme PREcision
• Spectrograph

2 meters

4.3 Meter Discovery Channel Telescope, Happy Jack, Arizona

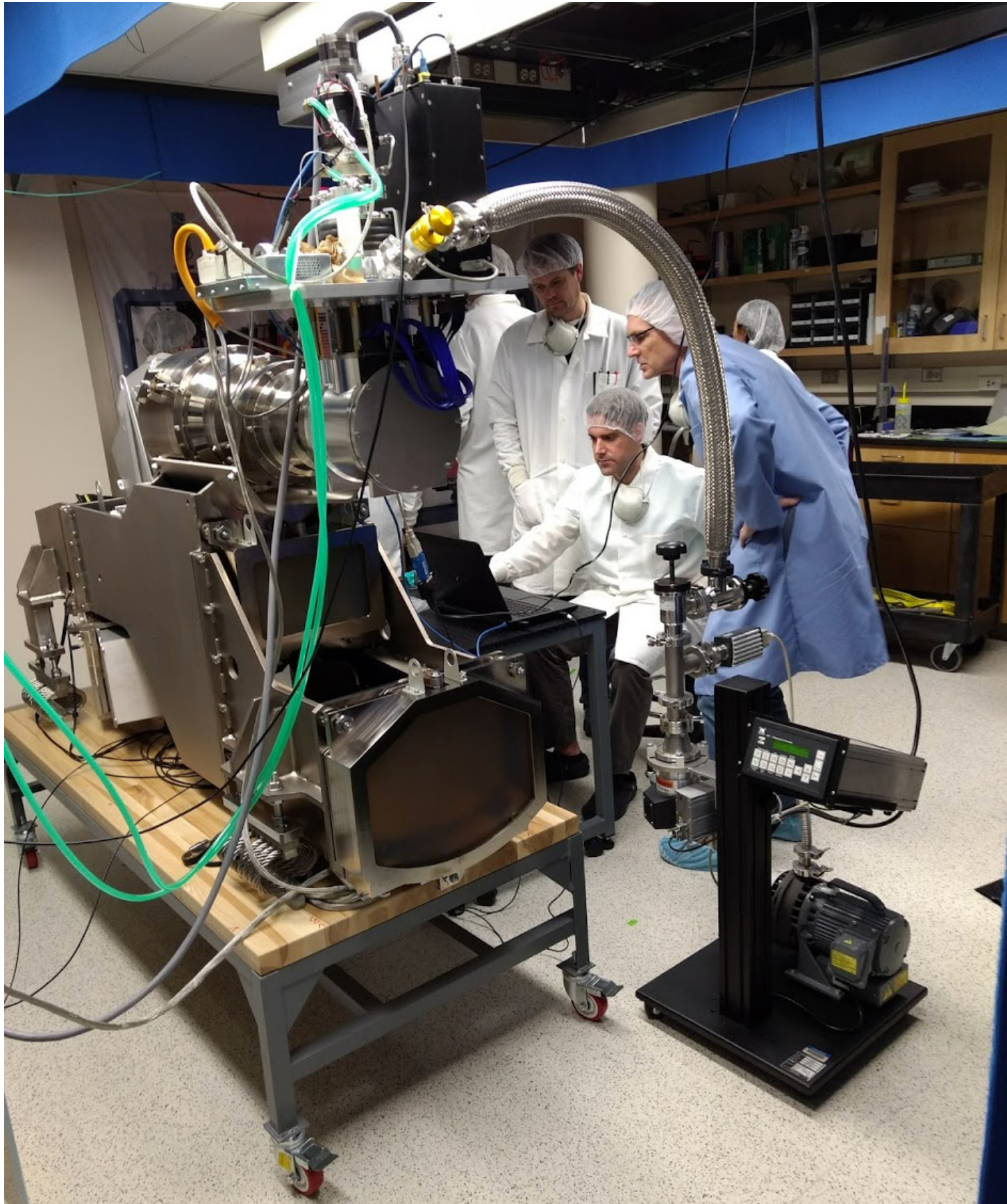


Twenty Years of Evolution in Radial Velocity Precision for 51 Pegasi b

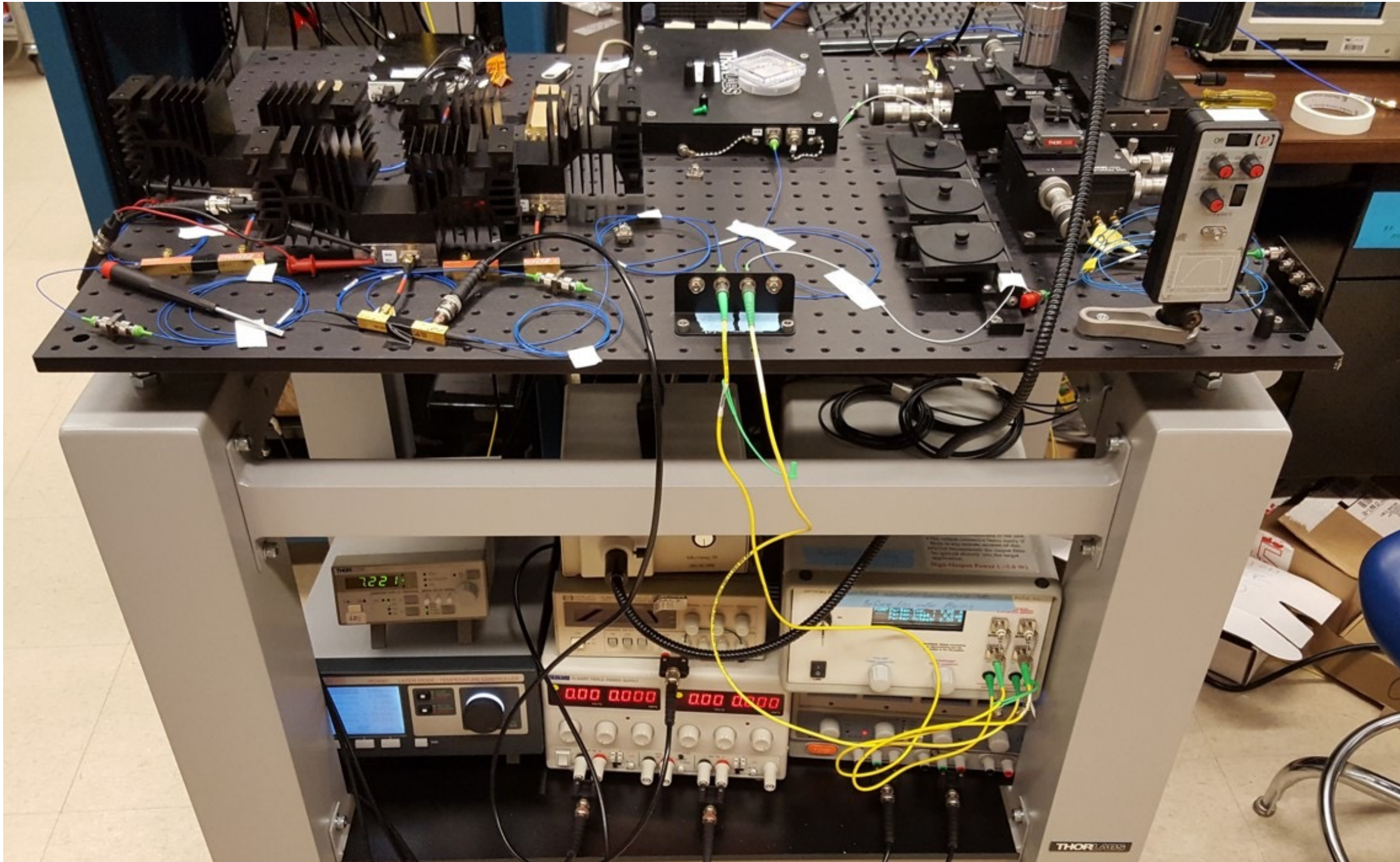


ELODIE 1995
10 m/s

Astronomy Optics Lab (Exolab)



Yale Nanodevices Laboratory



Center for Engineering Innovation and Design



Wright Lab Machine Shop

