

## Progress with the TEDI near- infrared exoplanet velocimeter

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### ABSTRACT

The TripleSpec - Exoplanet Discovery Instrument (TEDI) uses externally dispersed interferometry for radial-velocity exoplanet searches in the near-infrared pass-band. The instrument is a hybrid of an interferometer and a moderate resolution echelle spectrograph (*TripleSpec*,  $R=2,700$ ,  $0.9 - 2.4 \mu\text{m}$ ) installed at the Cassegrain focus of the Palomar 200" telescope. We describe the progress of our experimental program to establish a sub-100 m/s velocimetry method in a difficult pass-band and challenging telescope environment.

### Keywords:

Doppler planet search

radial velocity

interferometry

high resolution spectroscopy

near infra-red