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Near infrared interferometric spectroscopy with TEDI

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The TripleSpec - Exoplanet Discovery Instrument (TEDI) interferometric spectrometer, a hybrid of an interferometer and a moderate resolution echelle spectrograph (TripleSpec, $R=2,700$), performs radial velocimetry and spectral synthesis at infrared wavelengths (0.9 - 2.4 μm) from the Cassegrain focus of the Palomar 200" telescope. Here we present results from on-sky observations of standard and science targets following an instrumental upgrade development. Velocity precision stability of 15-30 m/s and six-fold spectral resolution boosting has been achieved.