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Novel Interferometer-Spectrometer for Sensitive Doppler Planet Detection David Erskine and Jian Ge

We describe a new compact and inexpensive instrument for detecting 1 m/s Doppler shifts of starlight (1/20,000th fringe shift) that can be extended to broad bandwidth, high efficiency and has 2 orders of magnitude greater etendue capability (for blurry sources) than the Lick Observatory spectrometer.

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