

Astrometric Detection of Planets

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Abstract

Astrometry is undergoing a rebirth. From modern photoelectric instruments on telescopes to the fine guidance sensors on HST to the Hipparcos mission, astrometric instruments have significantly increased in accuracy in the recent past. This talk will concentrate on the activities at JPL/NASA. NASA is about to embark on two major facilities, the Keck Interferometer and SIM, the Space Interferometry mission. Keck is designed to perform narrow angle astrometry with 10-20 μ as accuracy over very small fields, while SIM is designed for 4 μ as global astrometry and \sim 1 μ as narrow angle astrometry. A brief status of the Palomar Testbed Interferometer will also be given.