

Microlensing Measurements with an Undersampled PSF

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Abstract: For a variety of reasons, detectors in space tend to be undersampled. While undersampling introduces severe complications for scientific programs that need to measure fine morphological structure in galaxies, the consequences for point-sources are less dire. I will discuss how undersampling impacts the variety of astrometric and photometric measurements we might want to make on space-based images. In particular, I will present an analysis of some recent HST images of a microlensing event to show how we can solve unambiguously for the lens-source proper motions.