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Novel Approach to Microlensing Free-Floating Planets: Optical Interferometry

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One of the key questions about microlensing free-floating planet (FFP) events is whether the lenses are bona fide unbound or bound to a star that is not microlensing because of chance alignment. One avenue to verify boundness is to image the FFP events with high angular resolution in order to directly detect the putative host star. The highest resolution is obtained with interferometry. I will discuss the recent technical developments in interferometric instruments and present a proposal for interferometric observations of FFPs that was recently accepted.

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