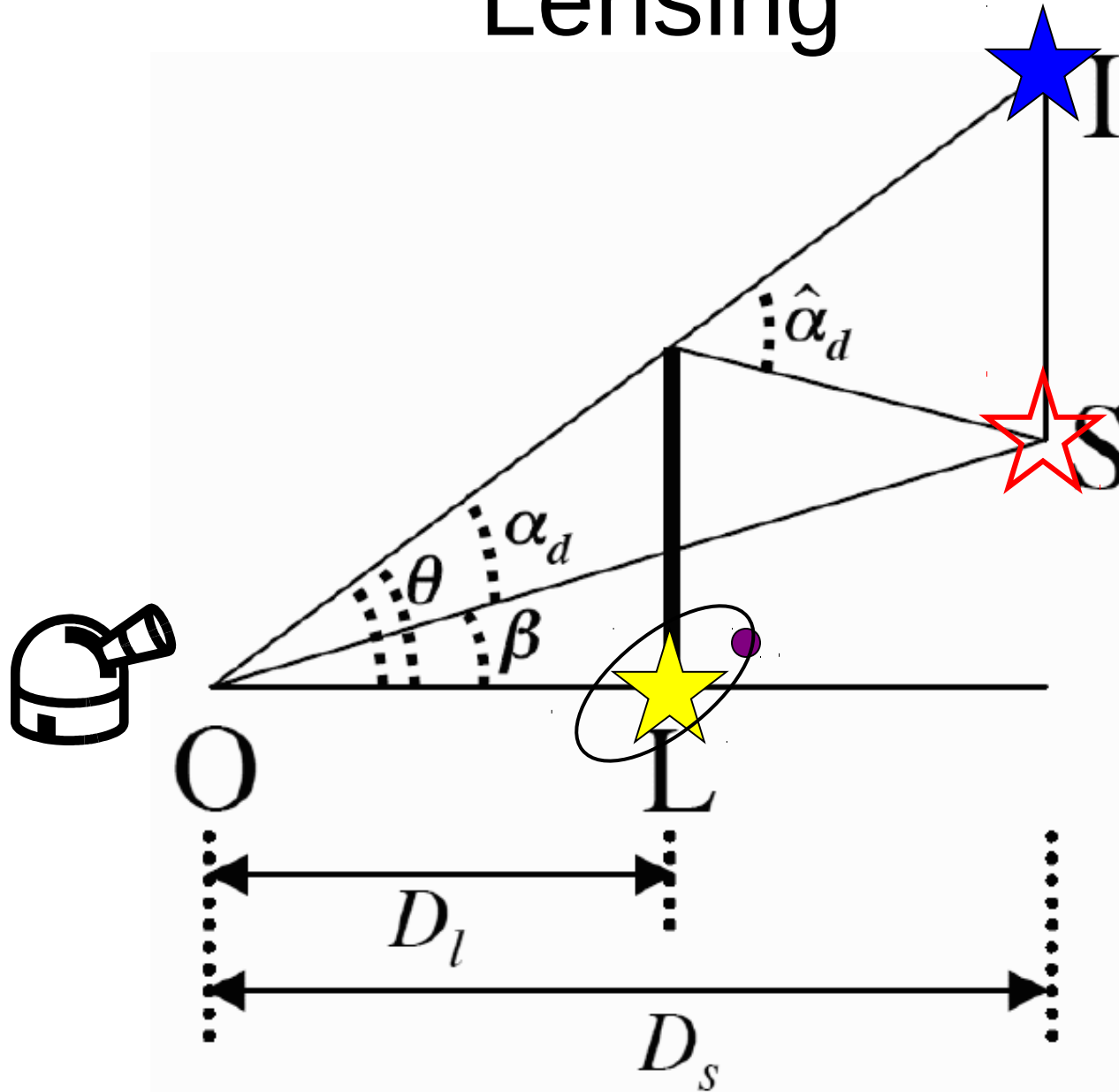
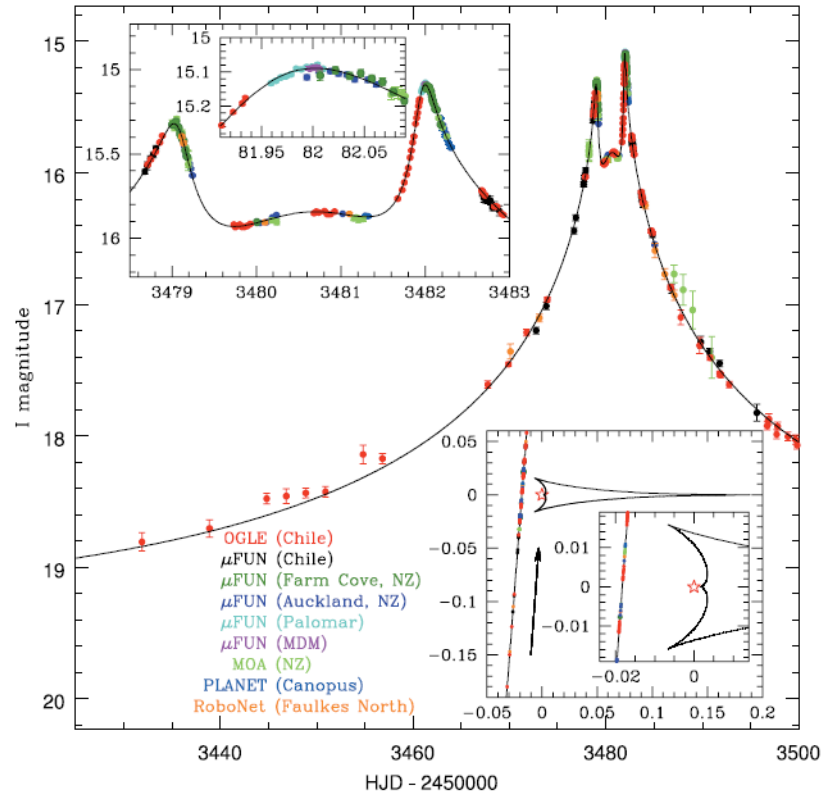


Lensing



See Scott Gaudi's webpage for microlensing animations:
<http://www.astronomy.ohio-state.edu/~gaudi/movies.html>

Basic Information



Mass Ratio

Scaled Projected Separation

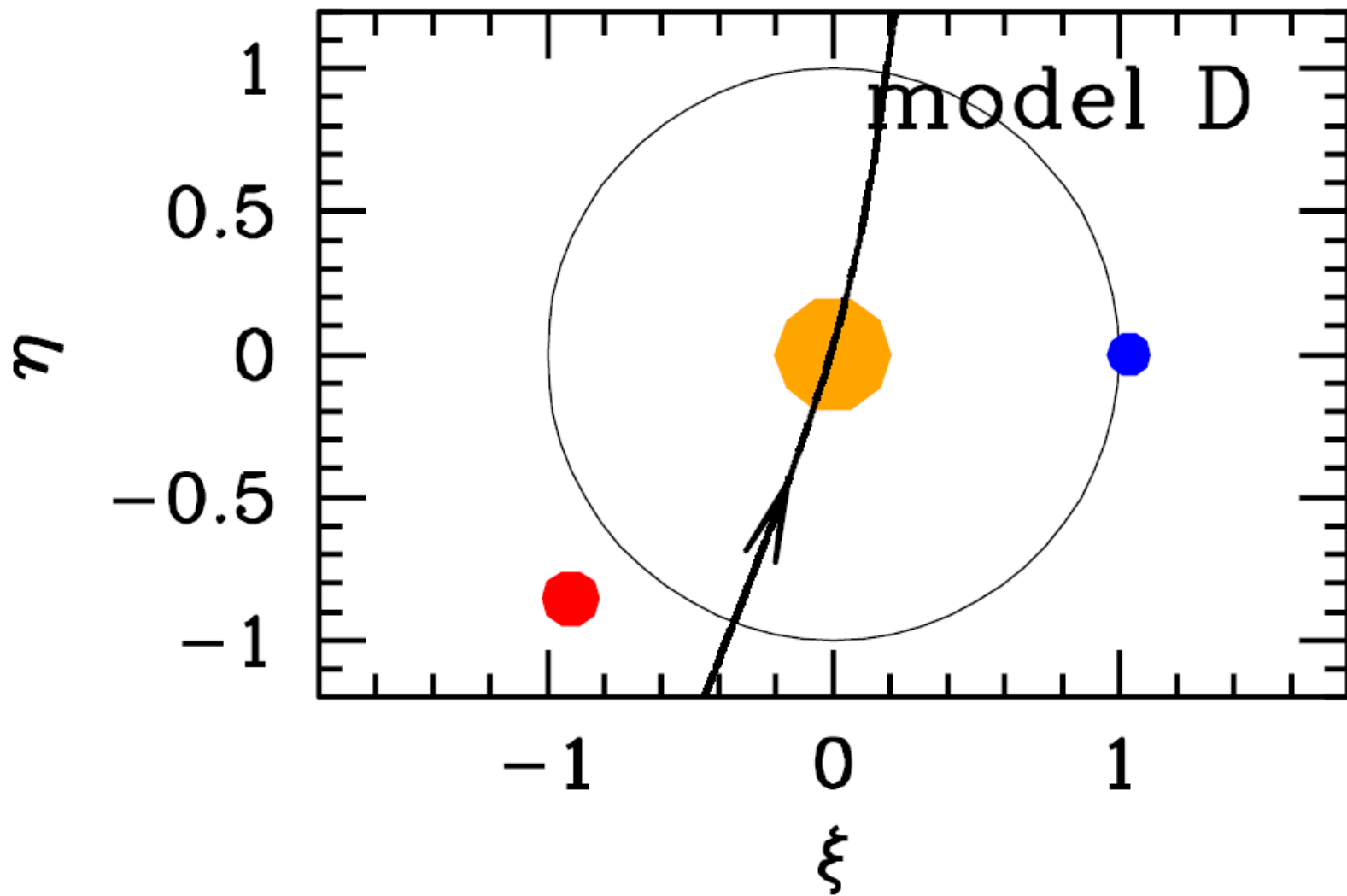
Mass Ratio: q



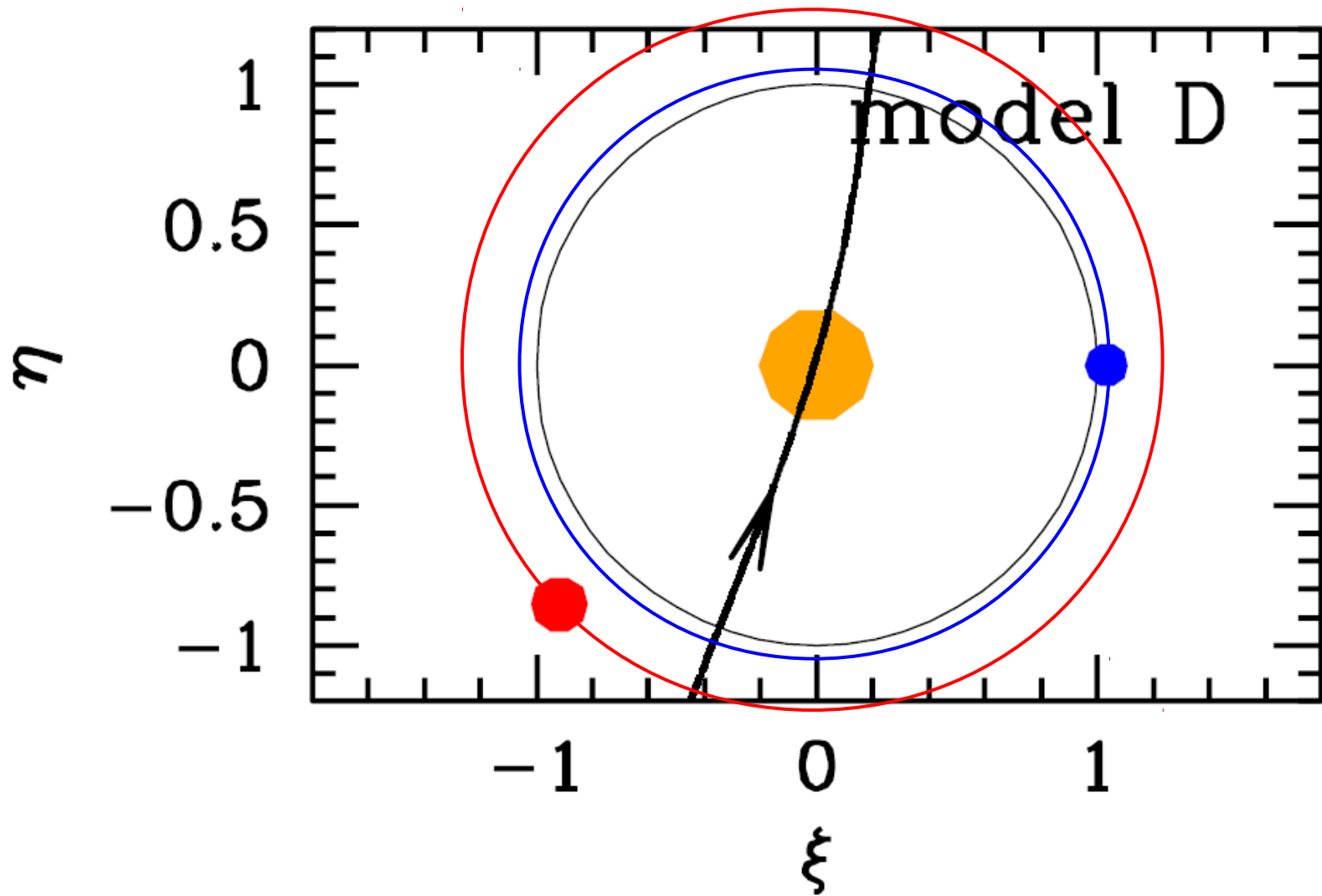
Mass Ratio: q



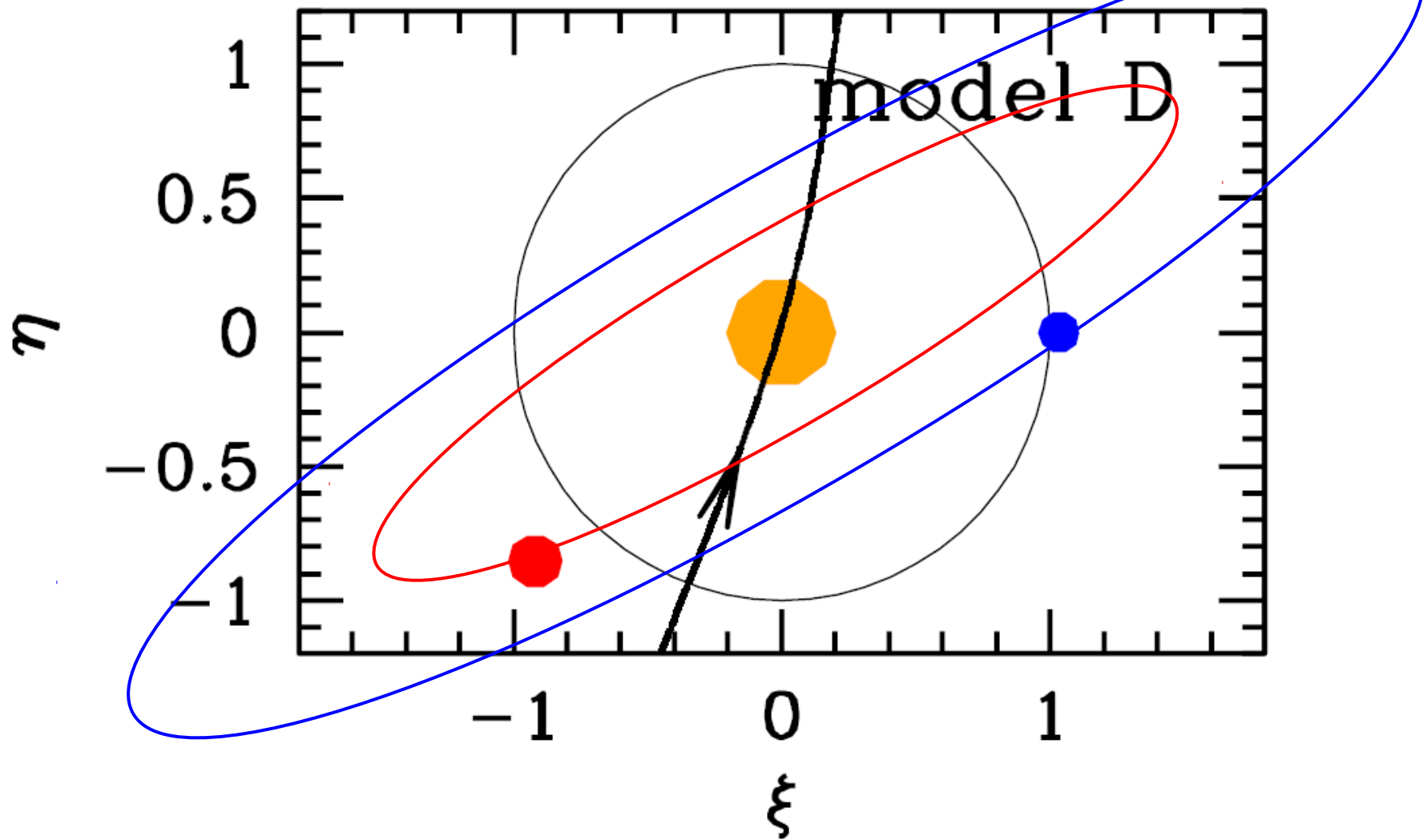
Projected Separation: s (b,d)

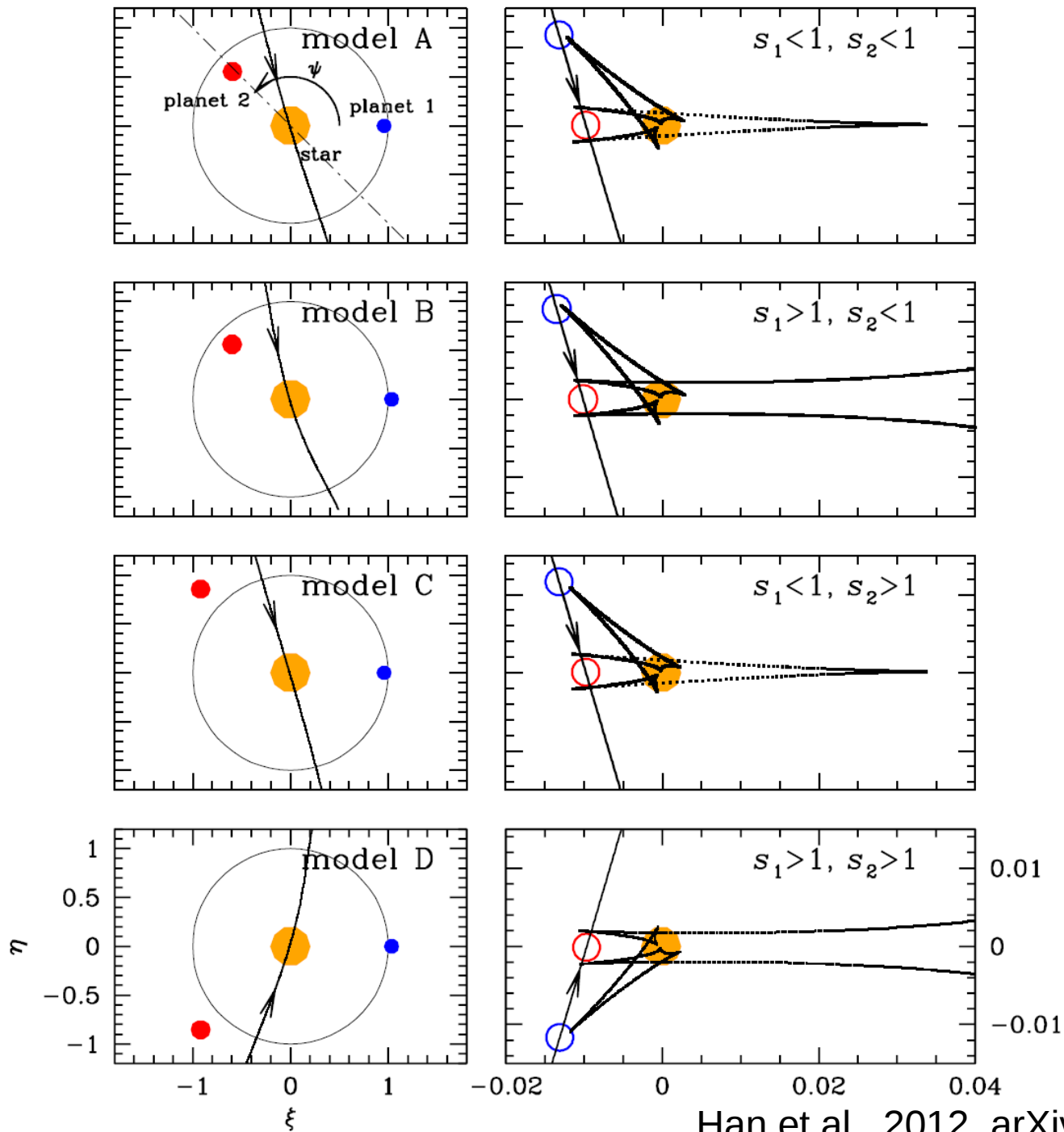


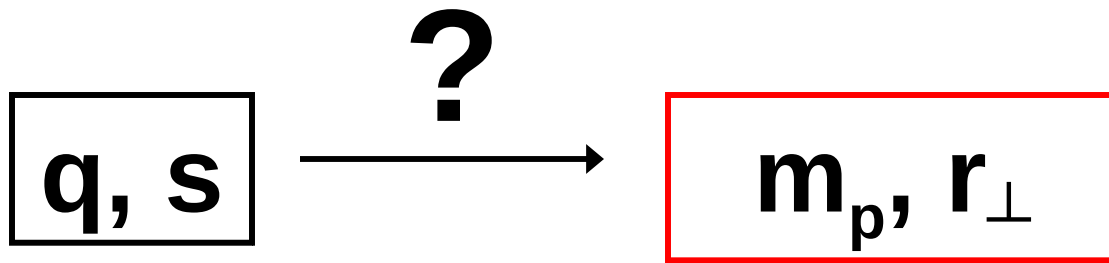
Projected Separation: s (b,d)



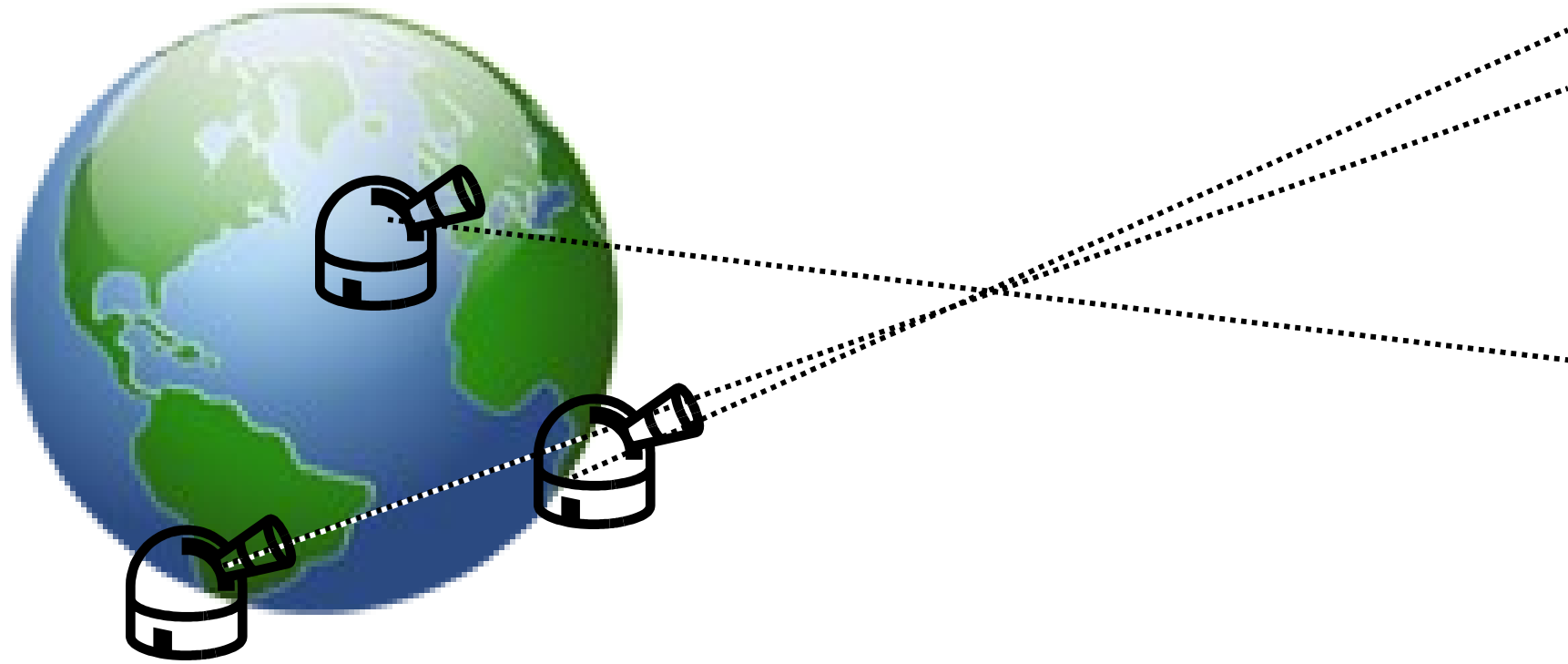
Projected Separation: s (b,d)



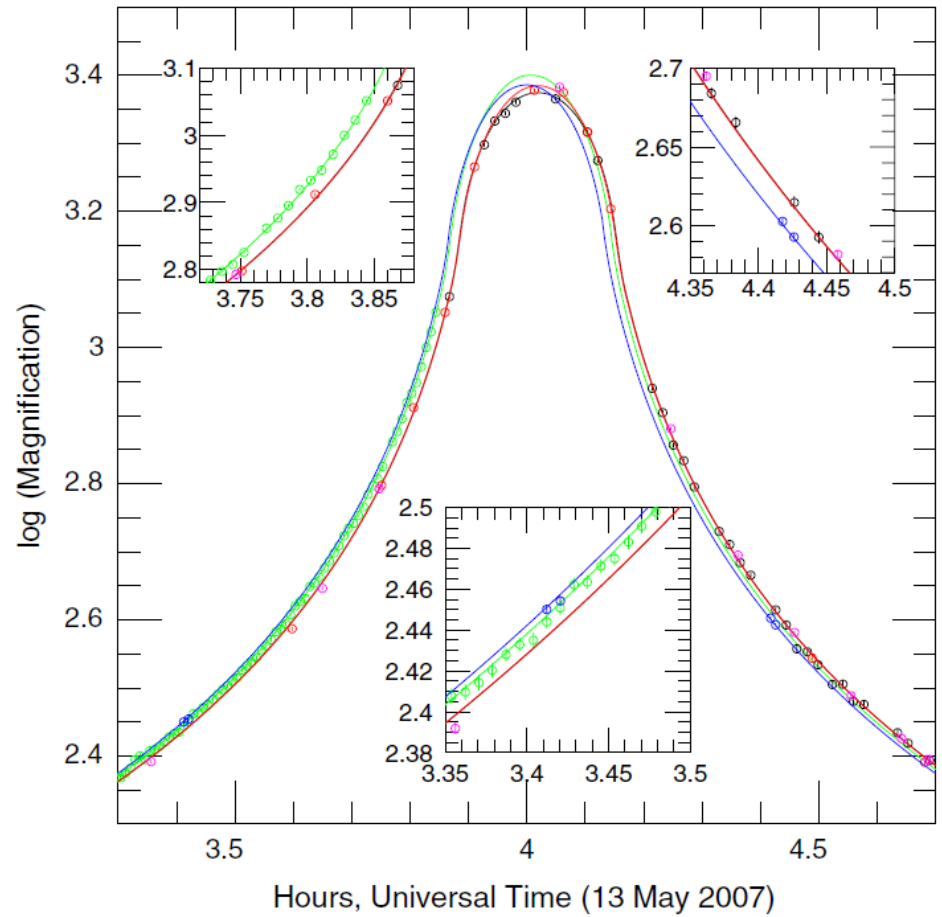
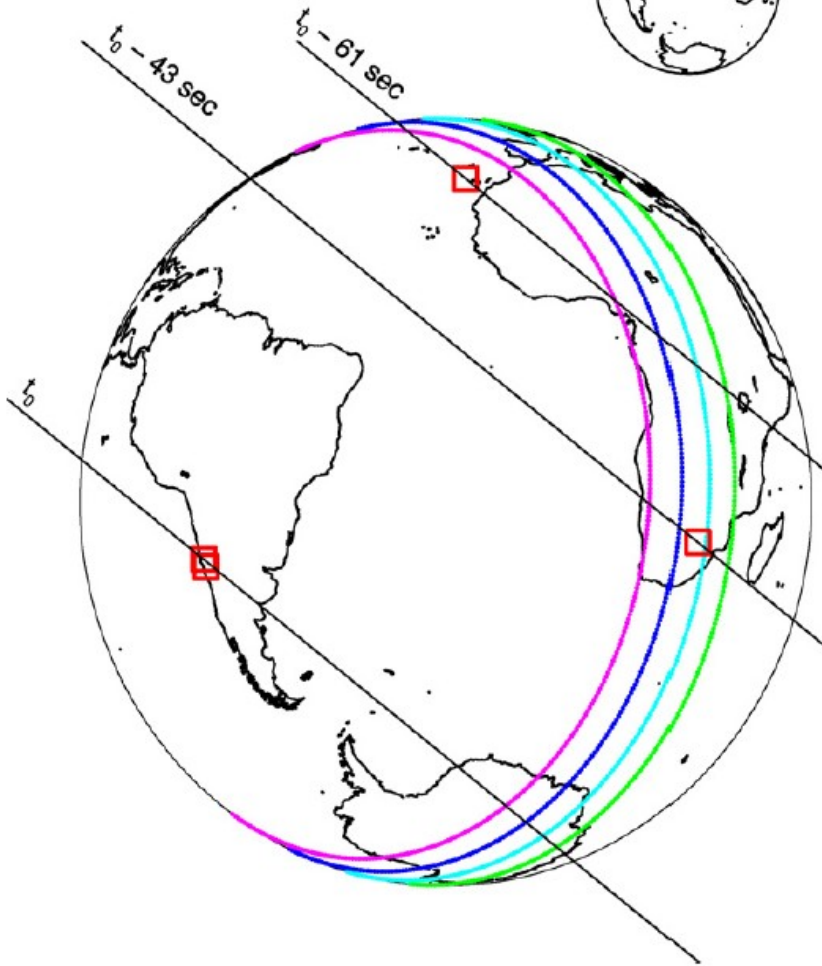




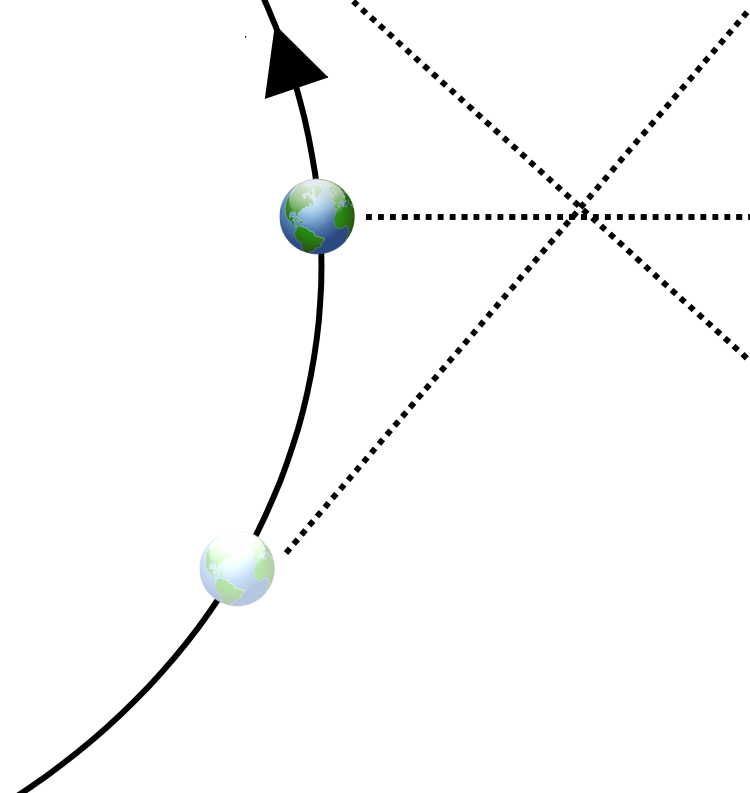
Terrestrial Parallax



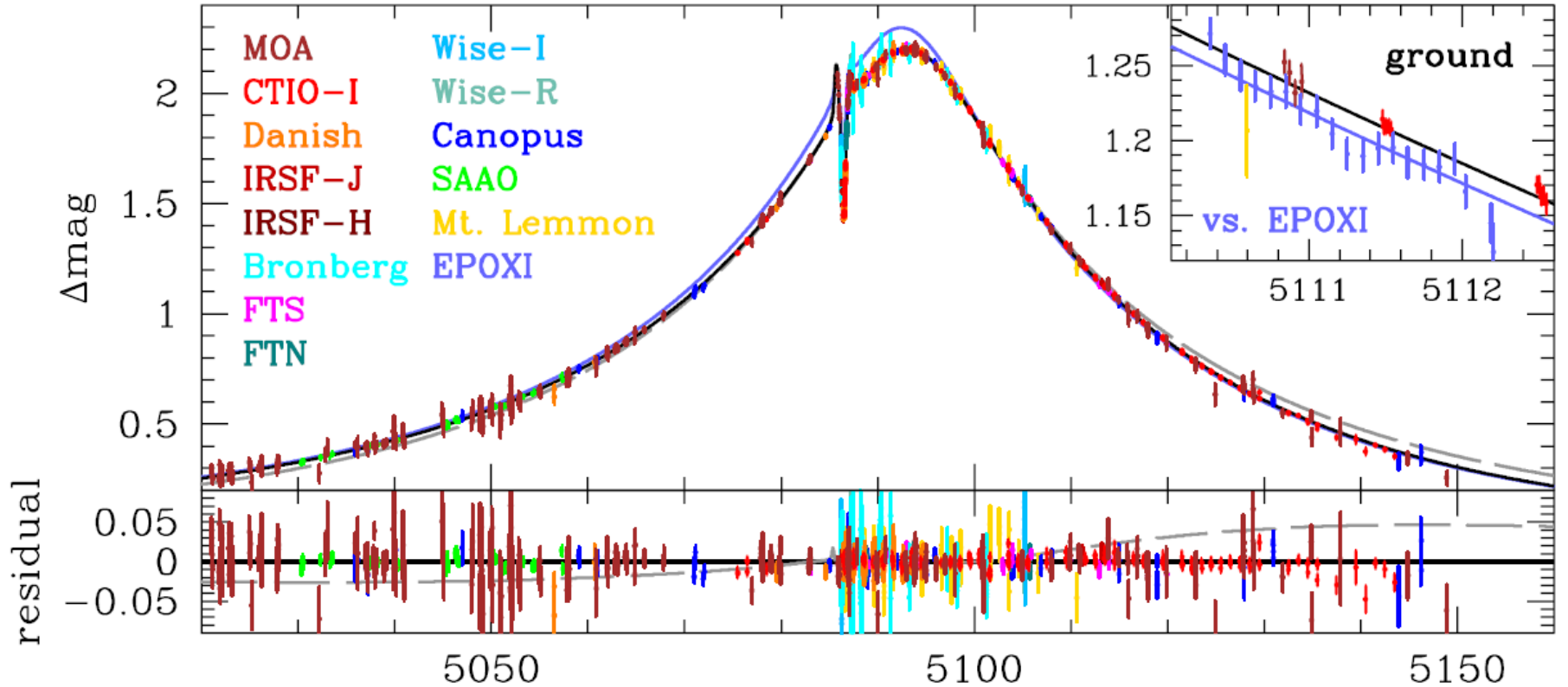
OGLE-2007-BLG-224



Orbital Parallax

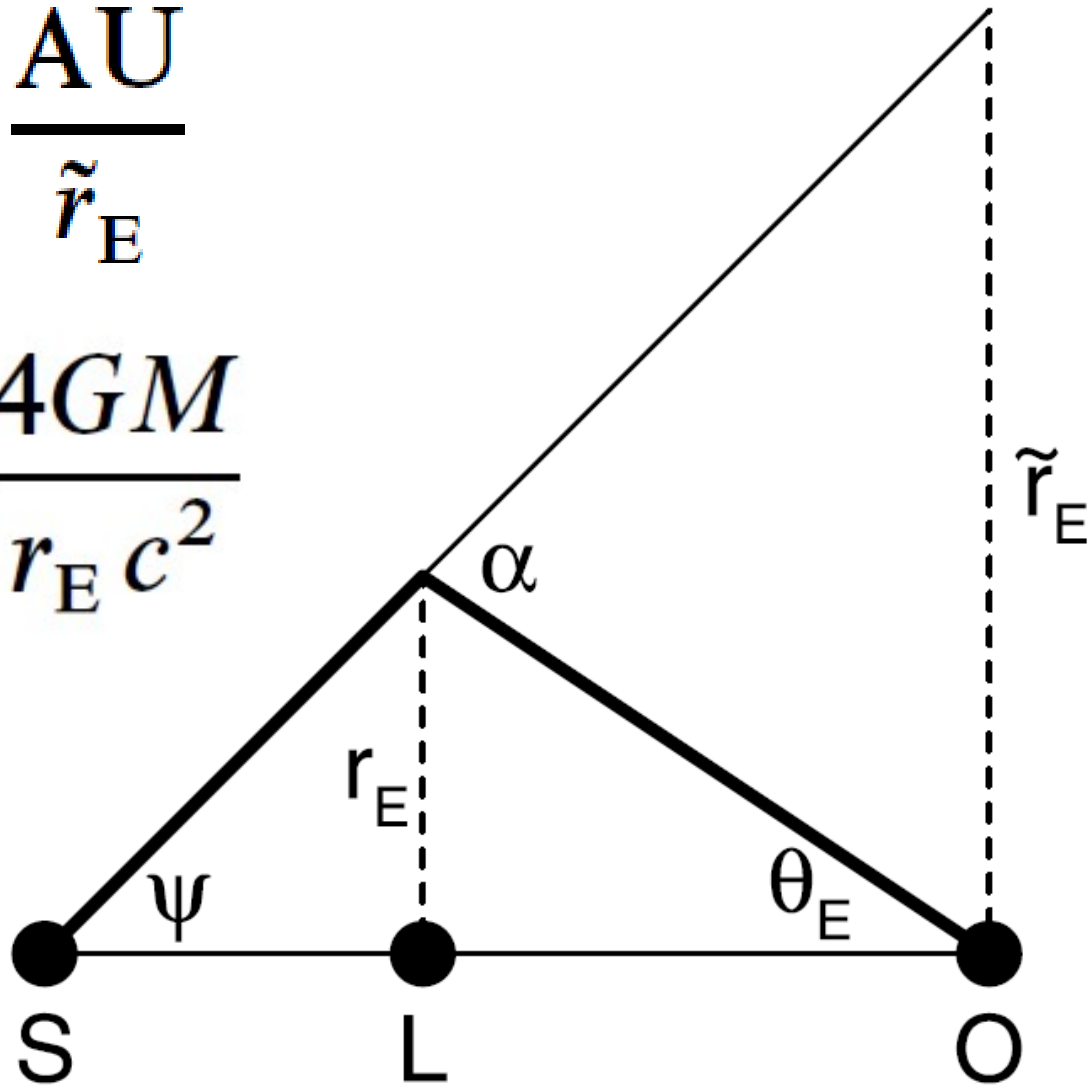


MOA-2009-BLG-266

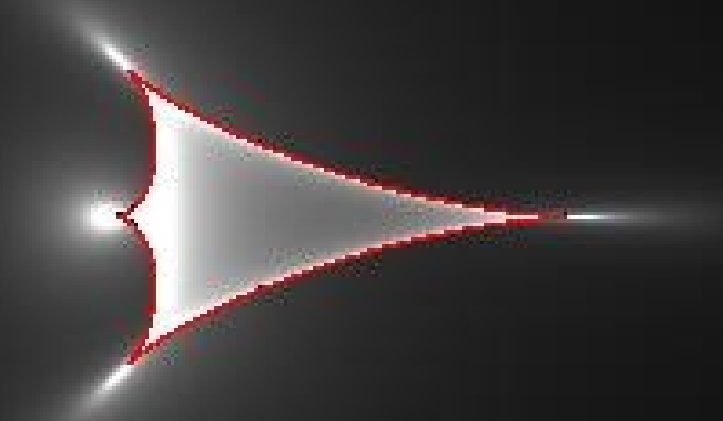


$$\pi_E \equiv \frac{AU}{\tilde{r}_E}$$

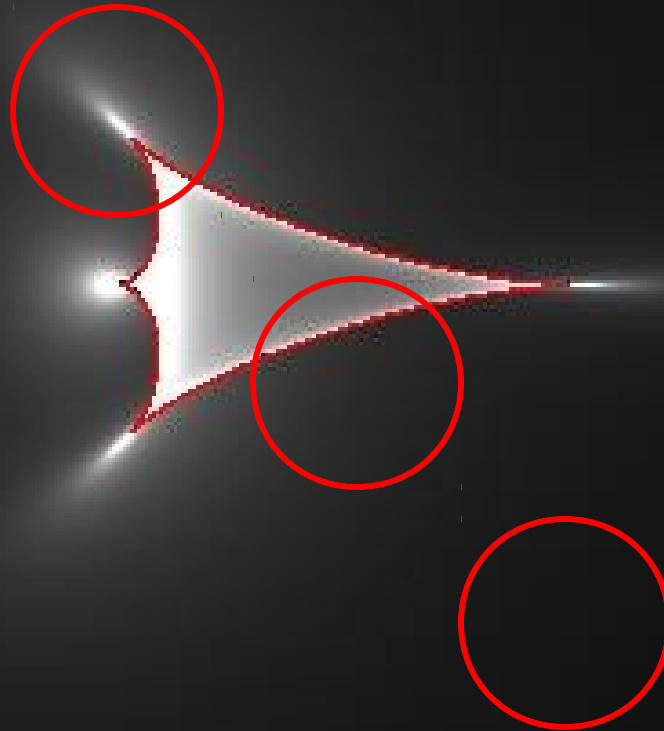
$$\alpha = \frac{4GM}{r_E c^2}$$



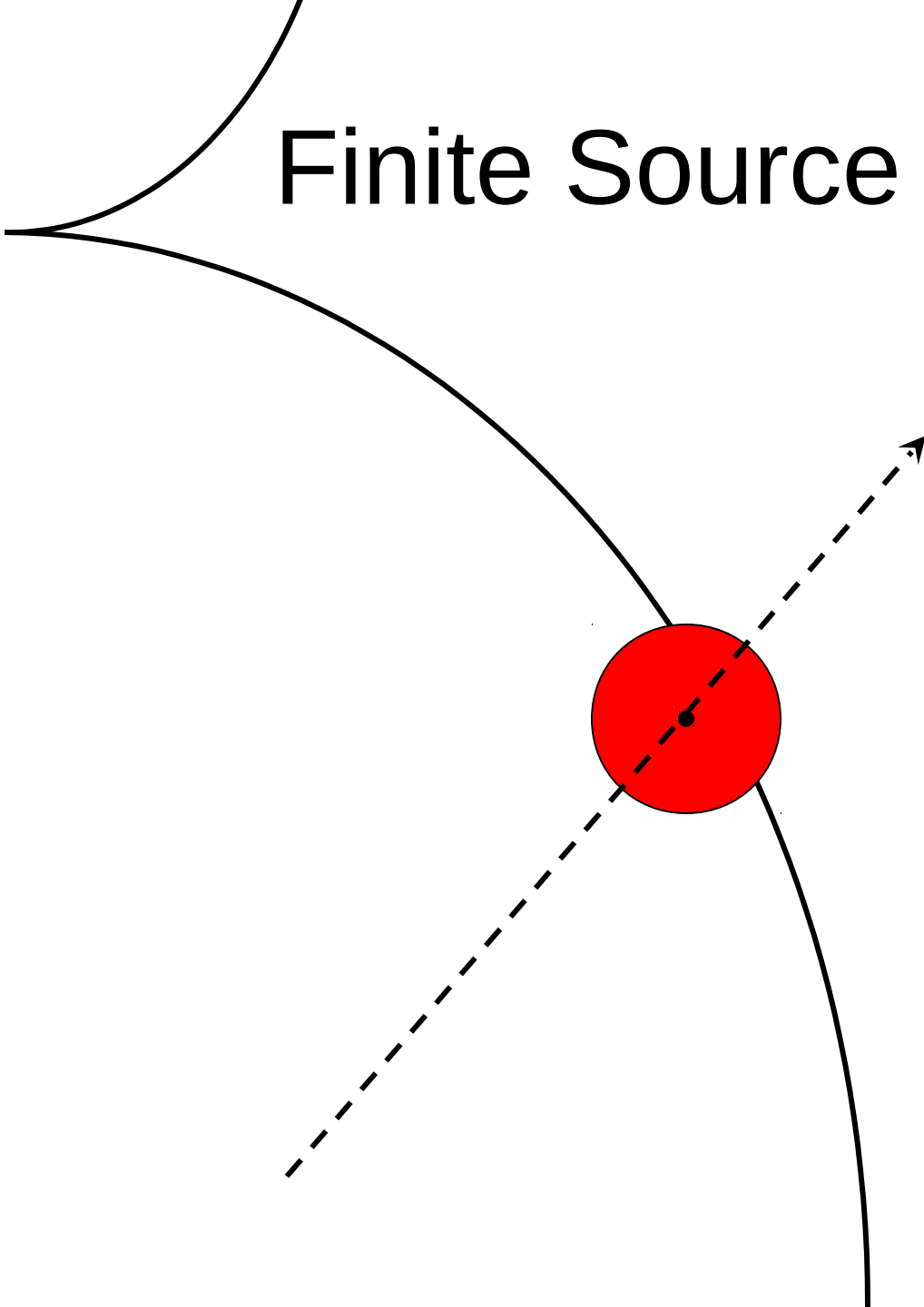
Finite Source Effects



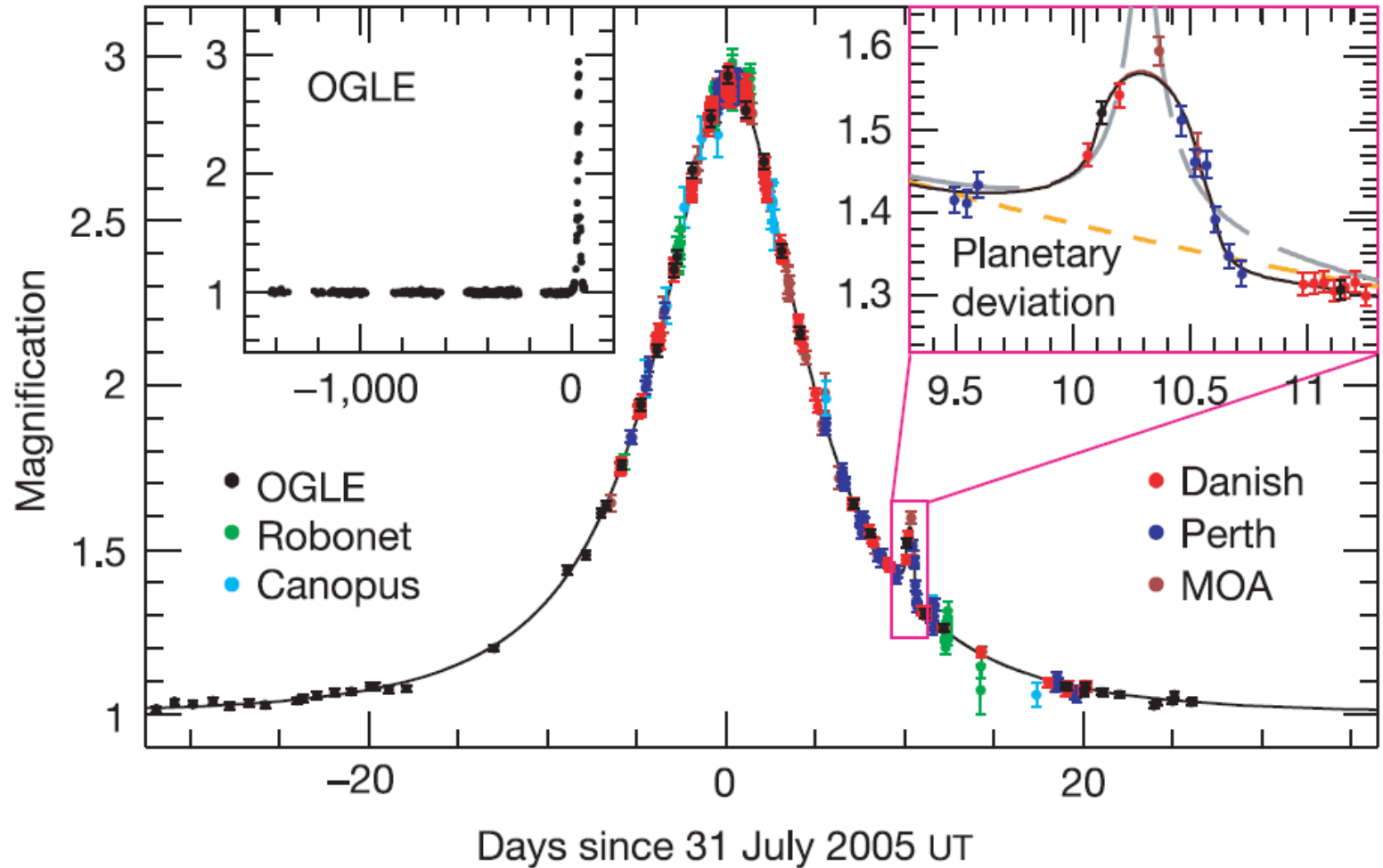
Finite Source Effects



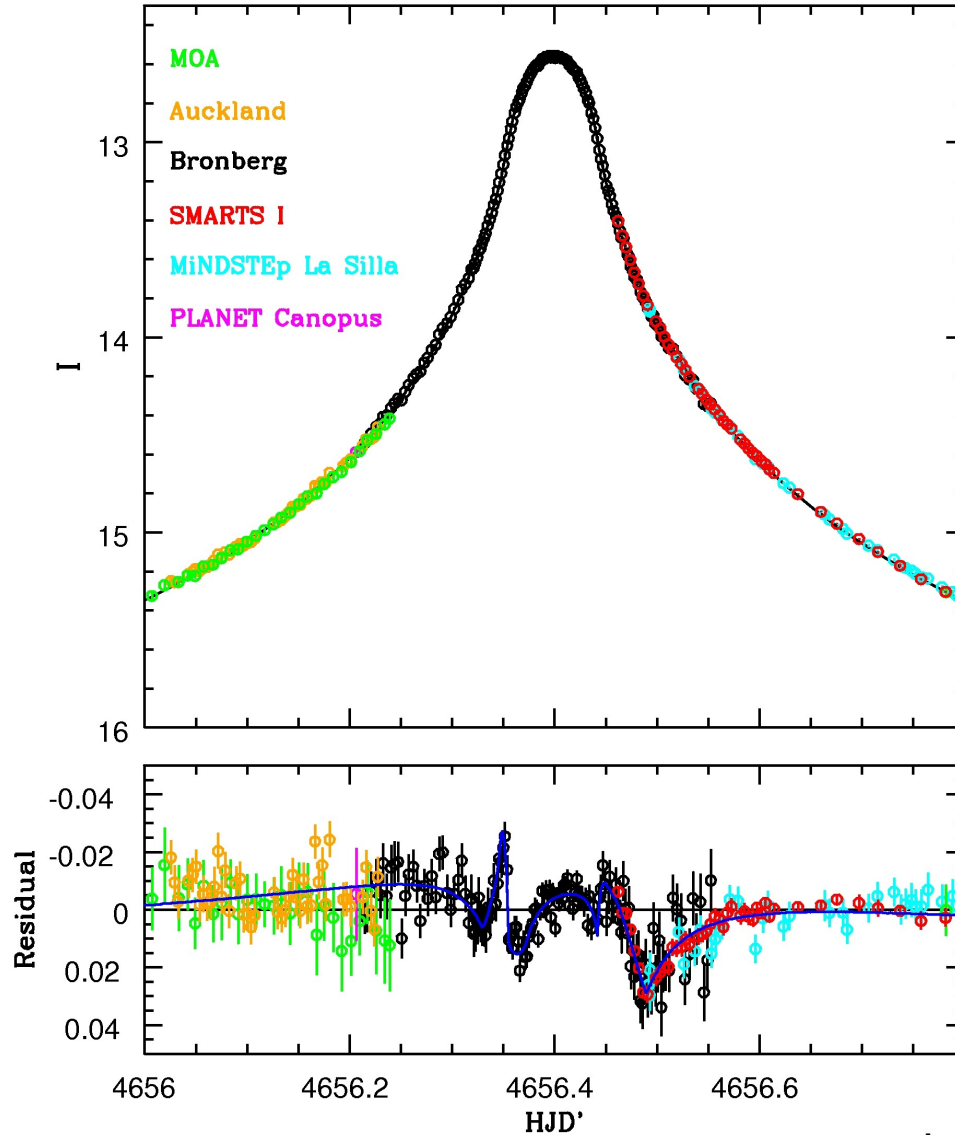
Finite Source Effects



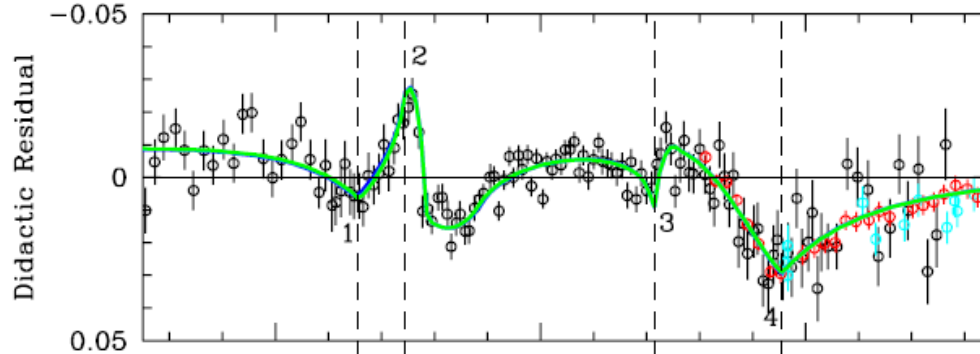
OGLE-2005-BLG-390



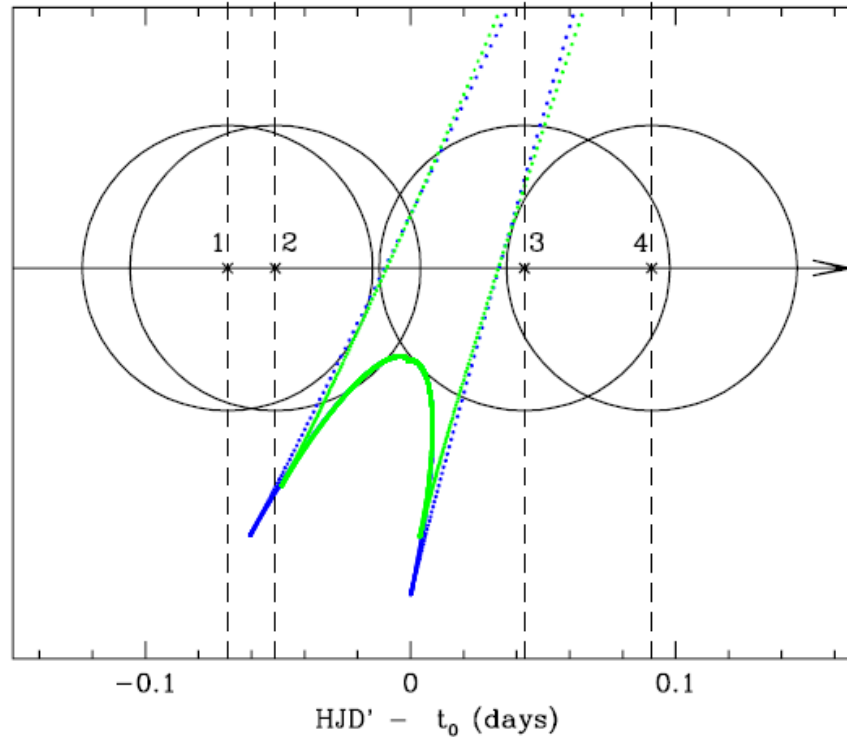
MOA-2008-BLG-310



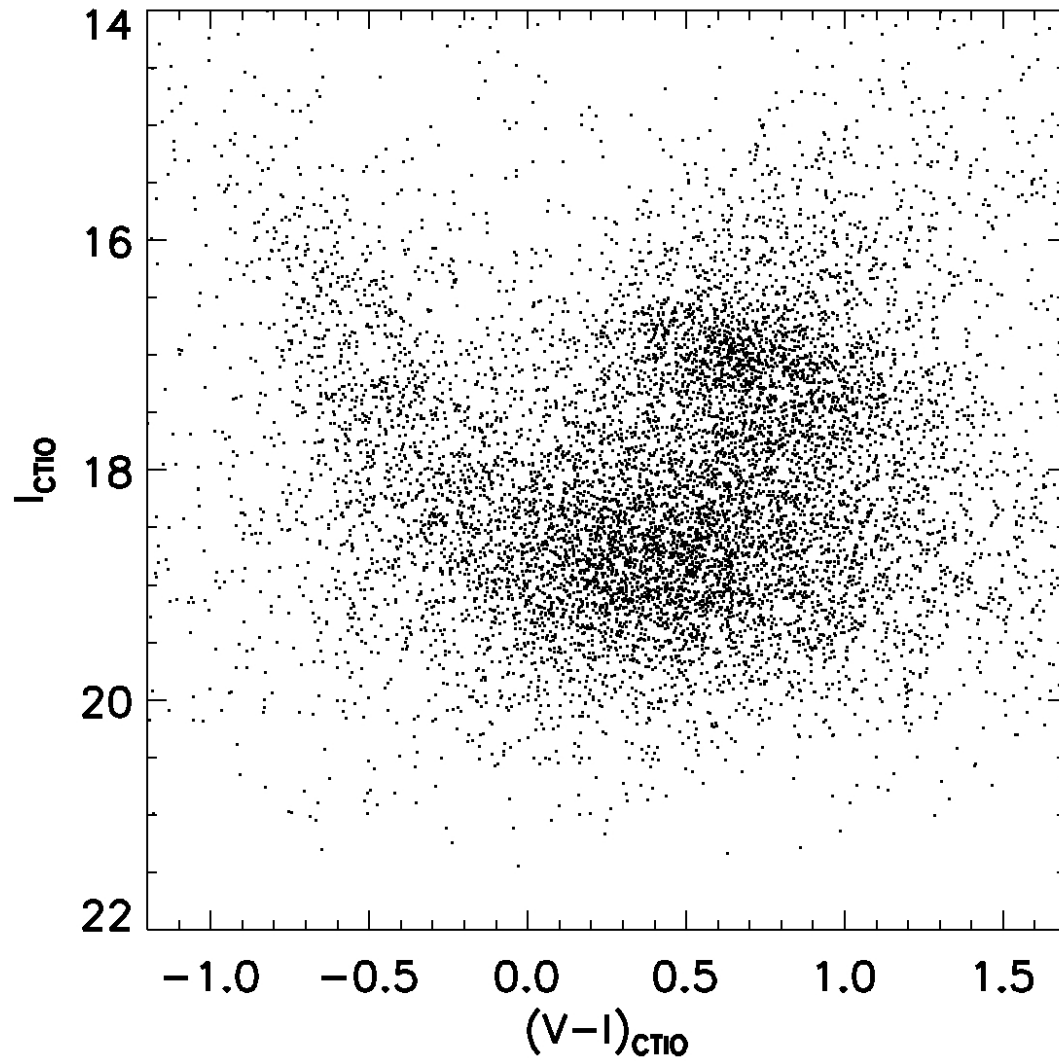
MOA-2008-BLG-310



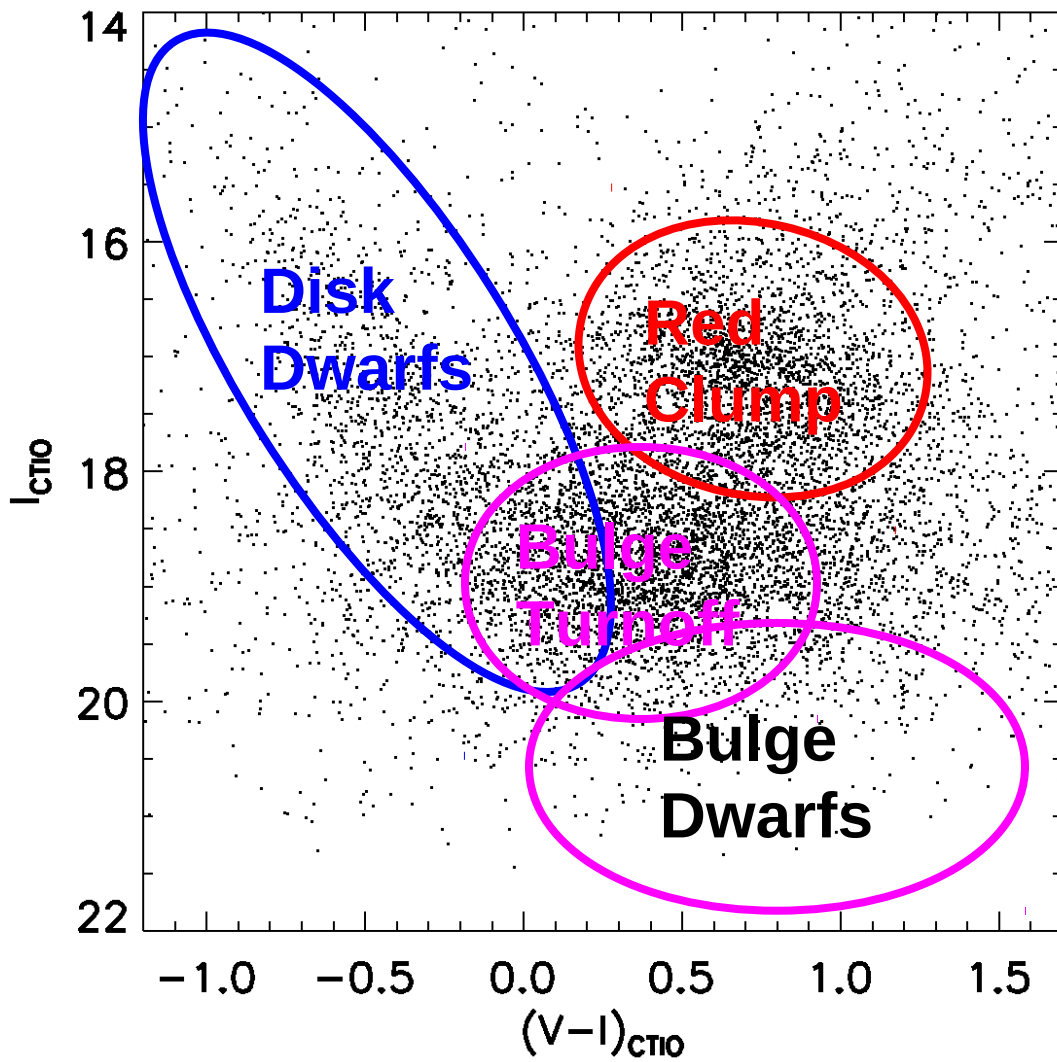
- Wide Solution
- Close Solution
- μ FUN Bronberg
- μ FUN SMARTS I
- MiNDSTEp La Silla



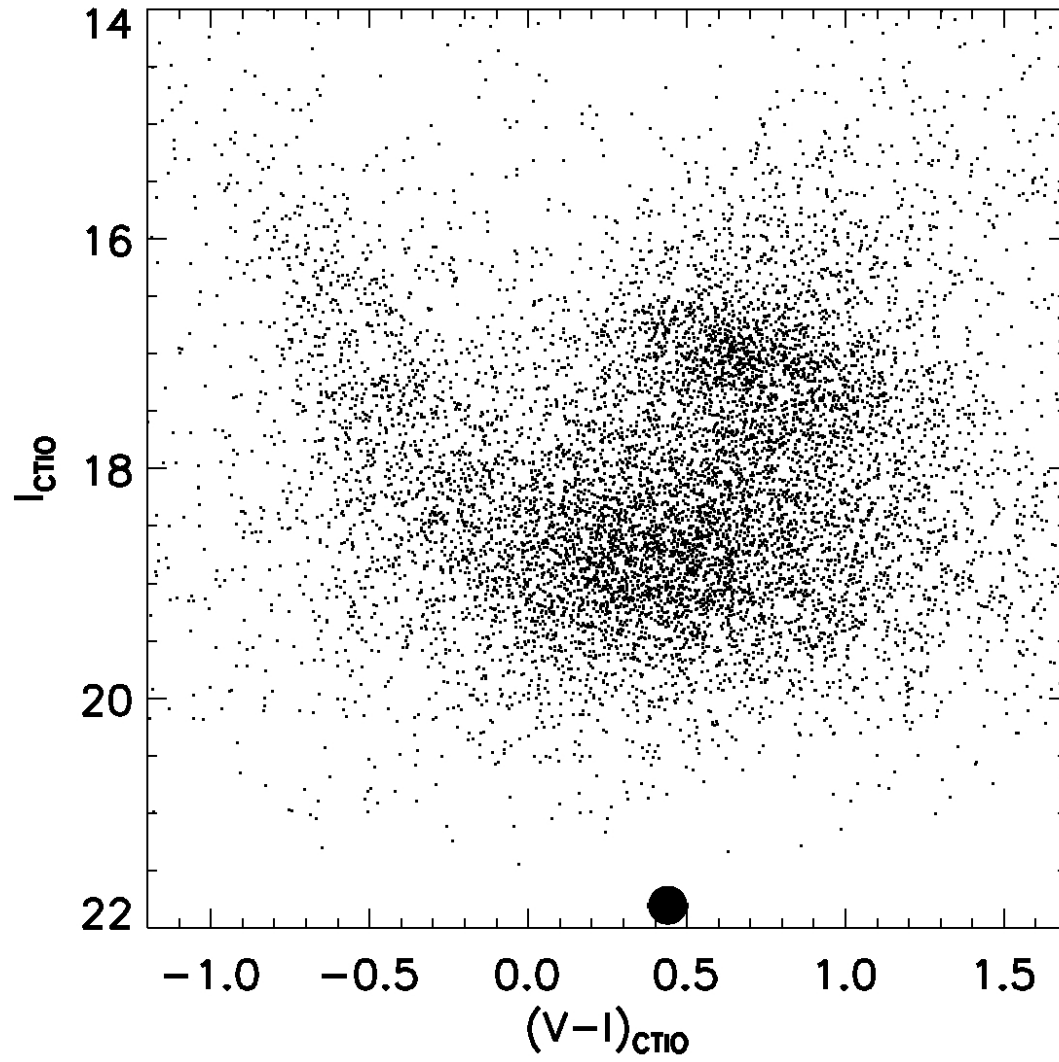
CMD

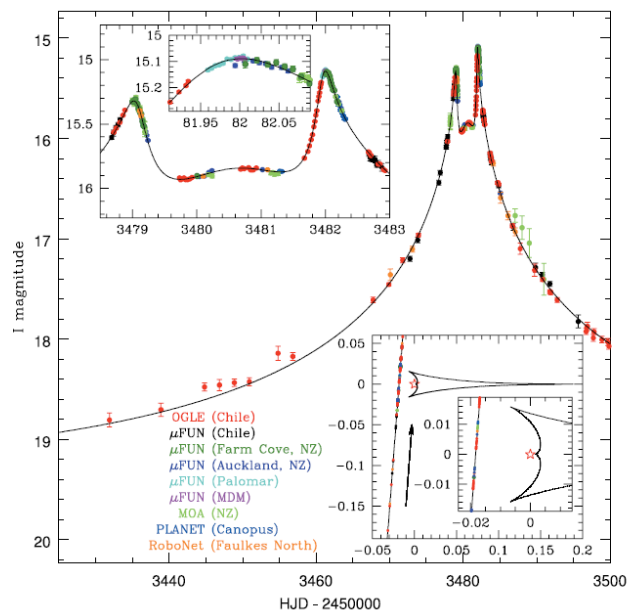
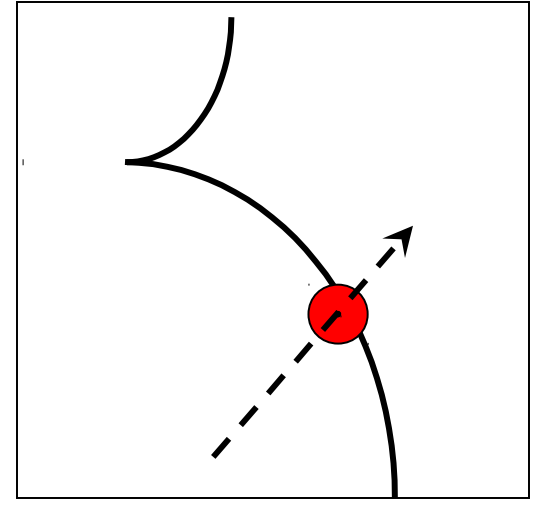
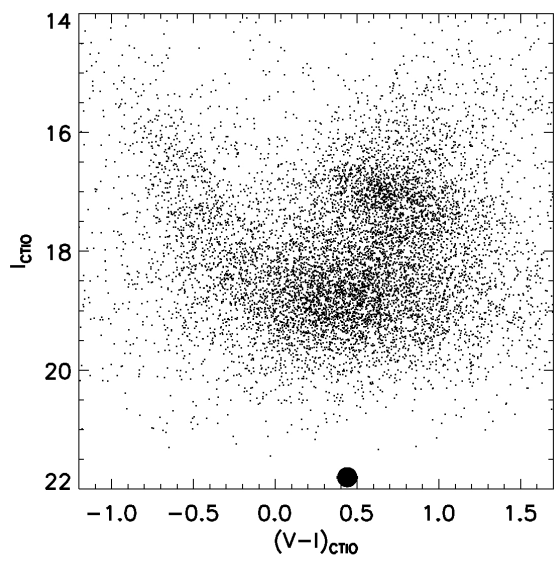
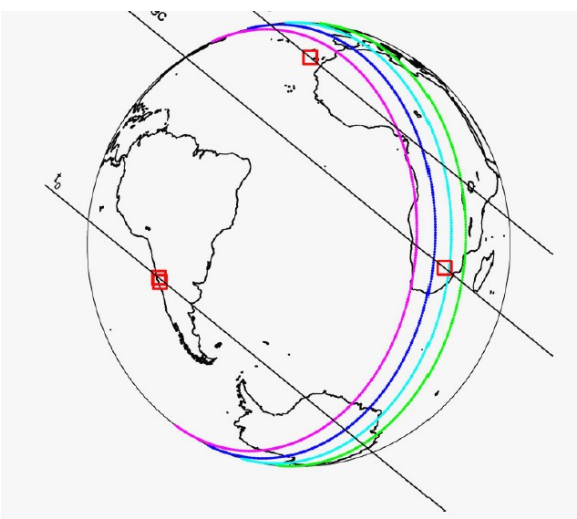


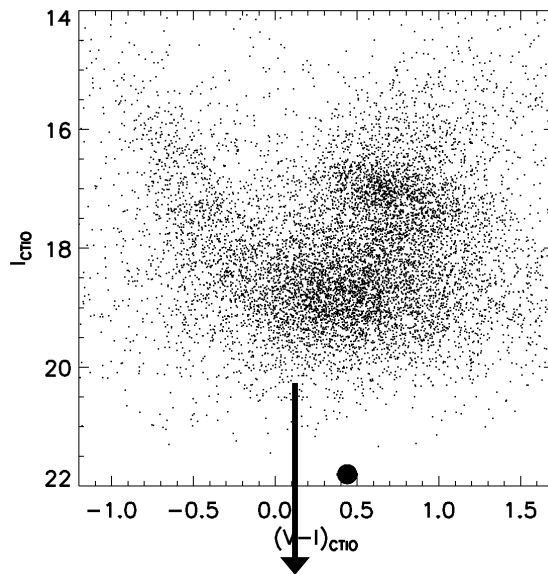
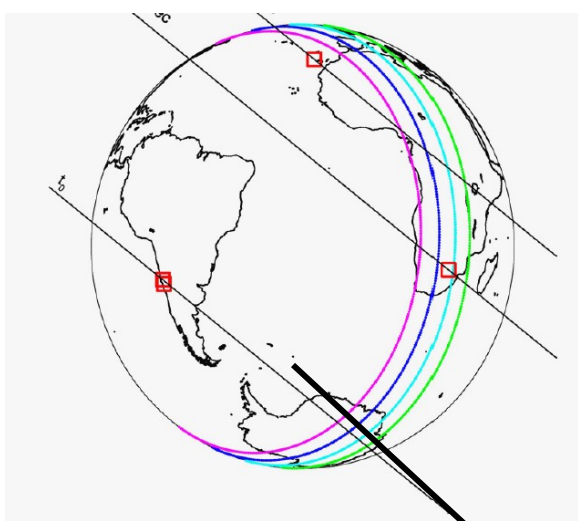
CMD



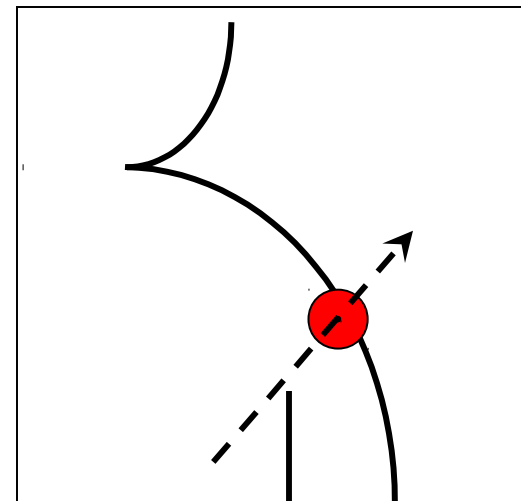
CMD



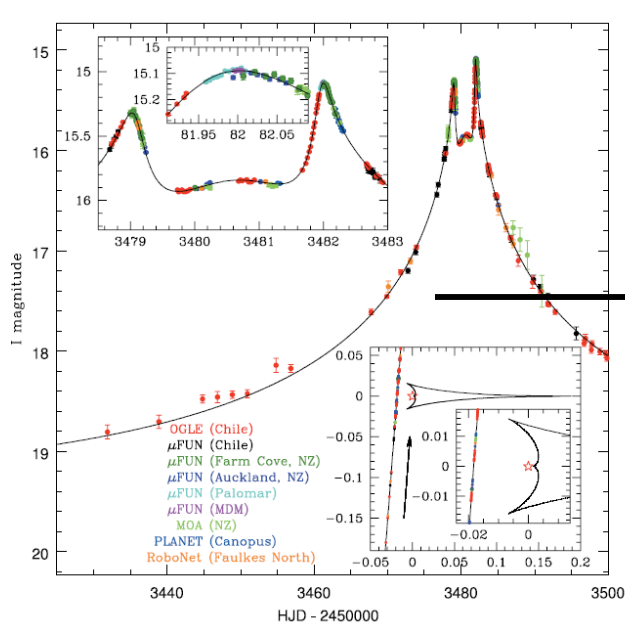




θ_*

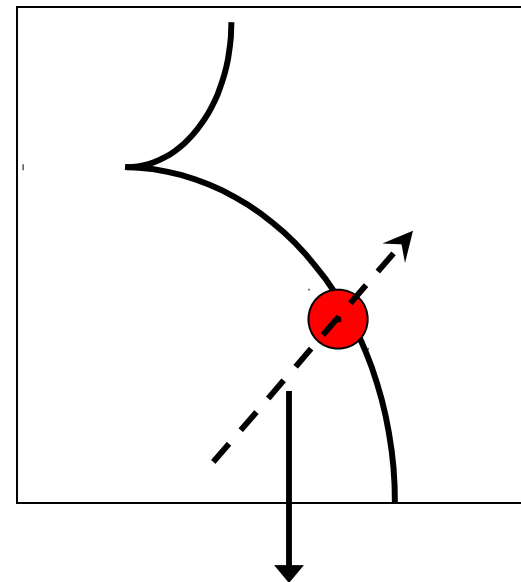
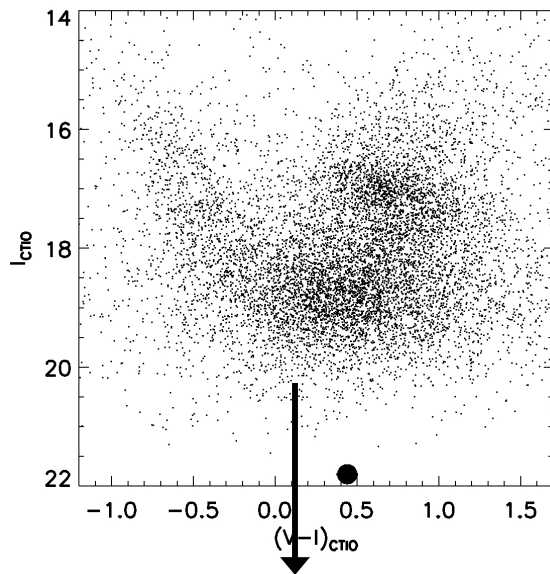
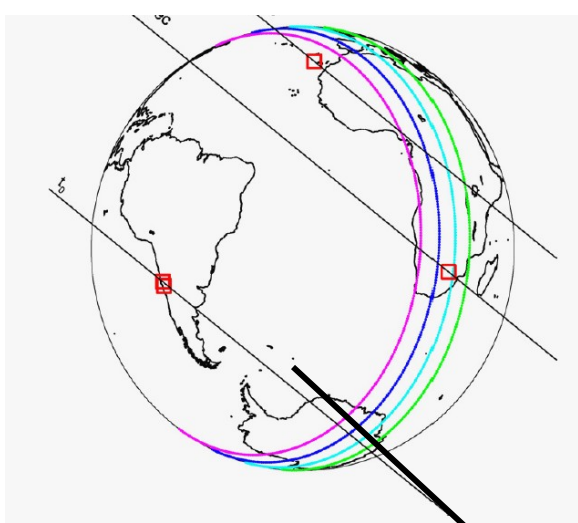


ρ



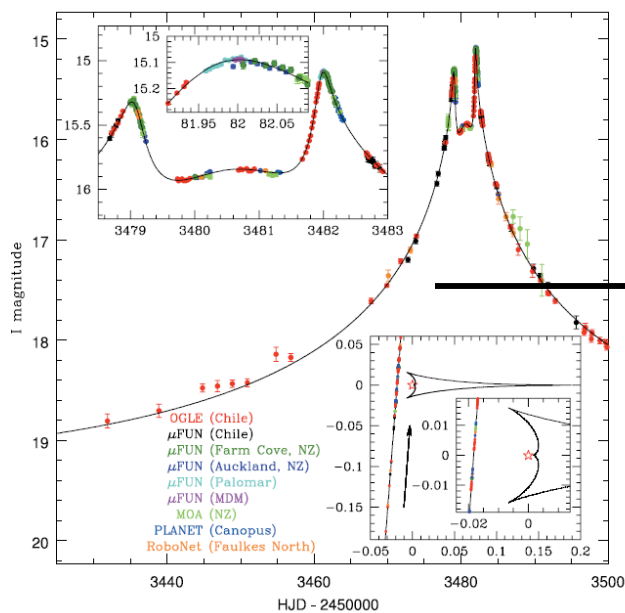
π_E

q, s



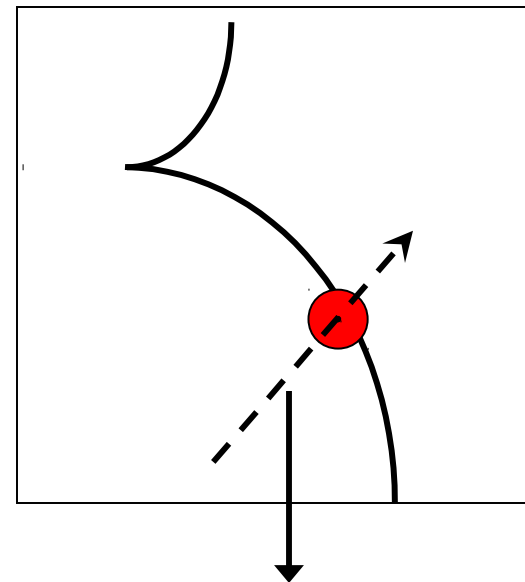
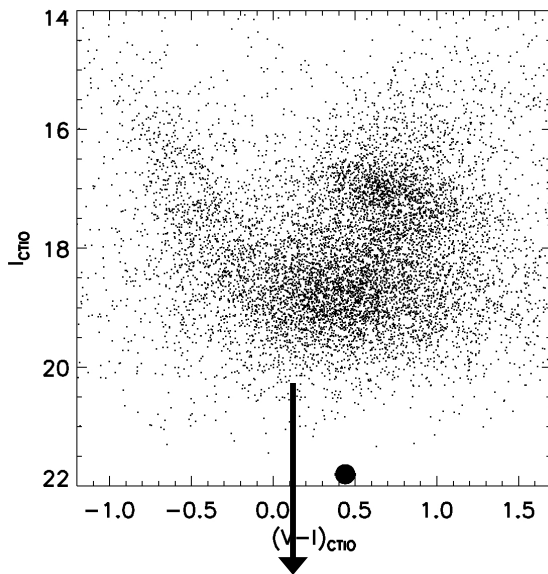
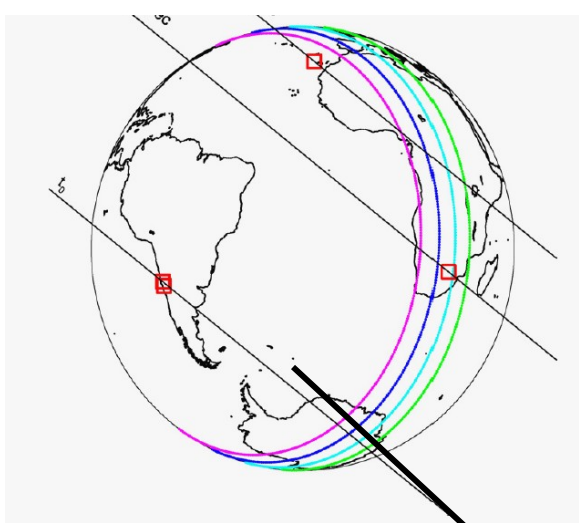
θ_* + ρ

θ_E



π_E

q, s

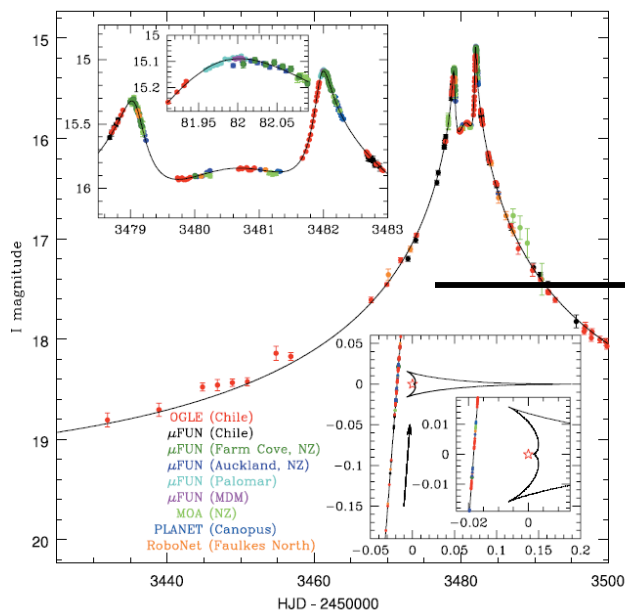


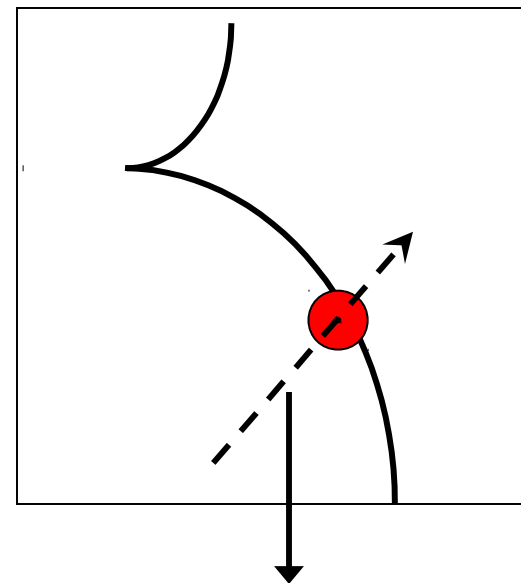
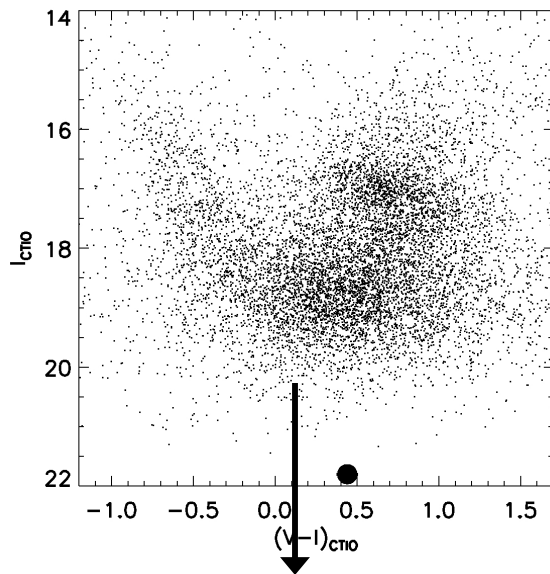
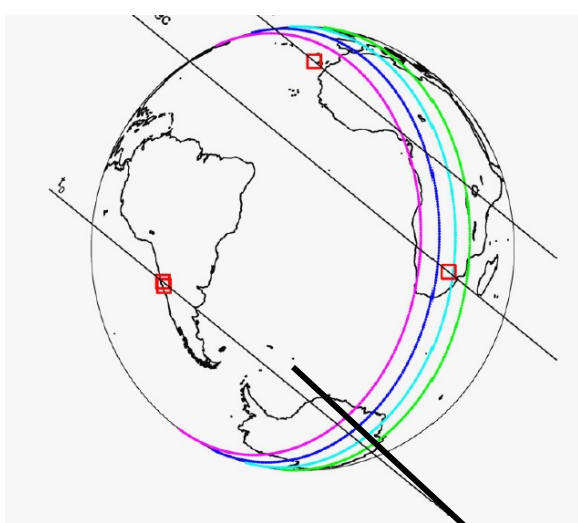
$$\theta_* + \rho$$

$$\pi_E + \theta_E$$

$$q, s$$

$$M_L, D_L$$



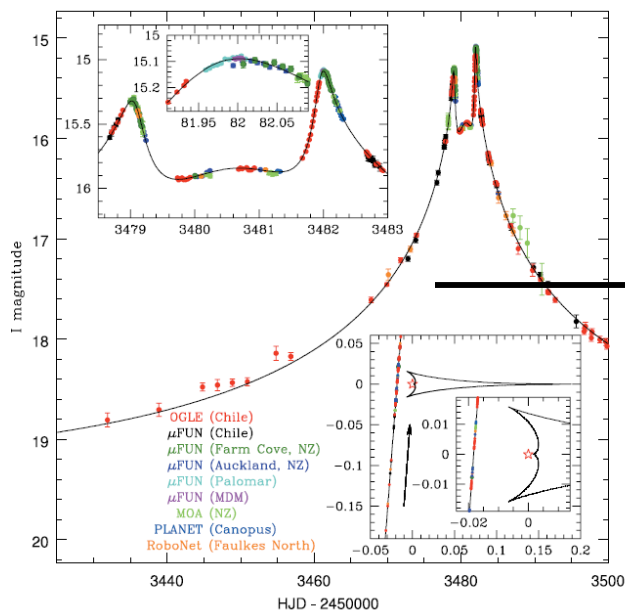


$$\theta_* + \rho$$

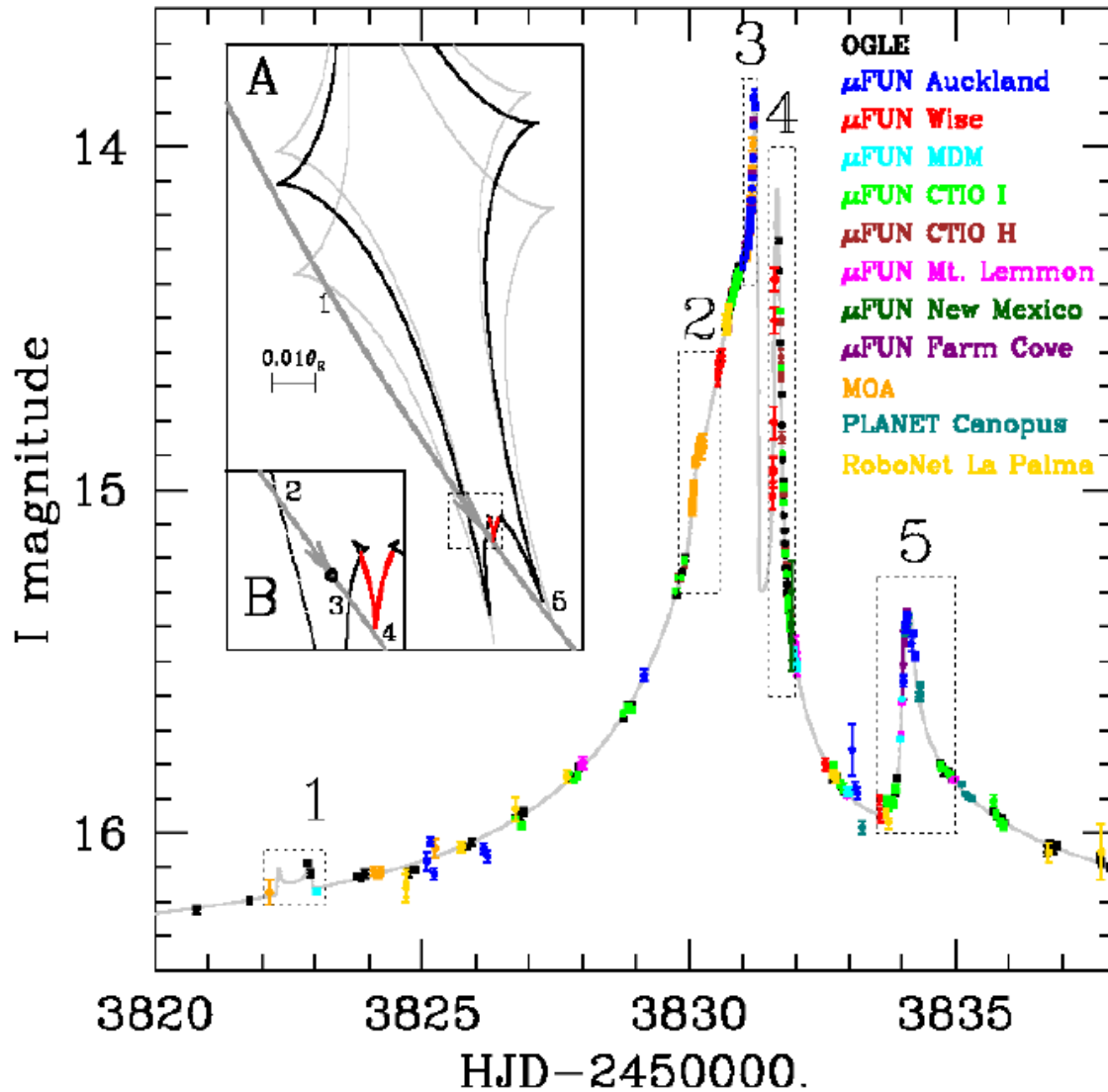
$$\pi_E + \theta_E$$

$$q, s + M_L, D_L$$

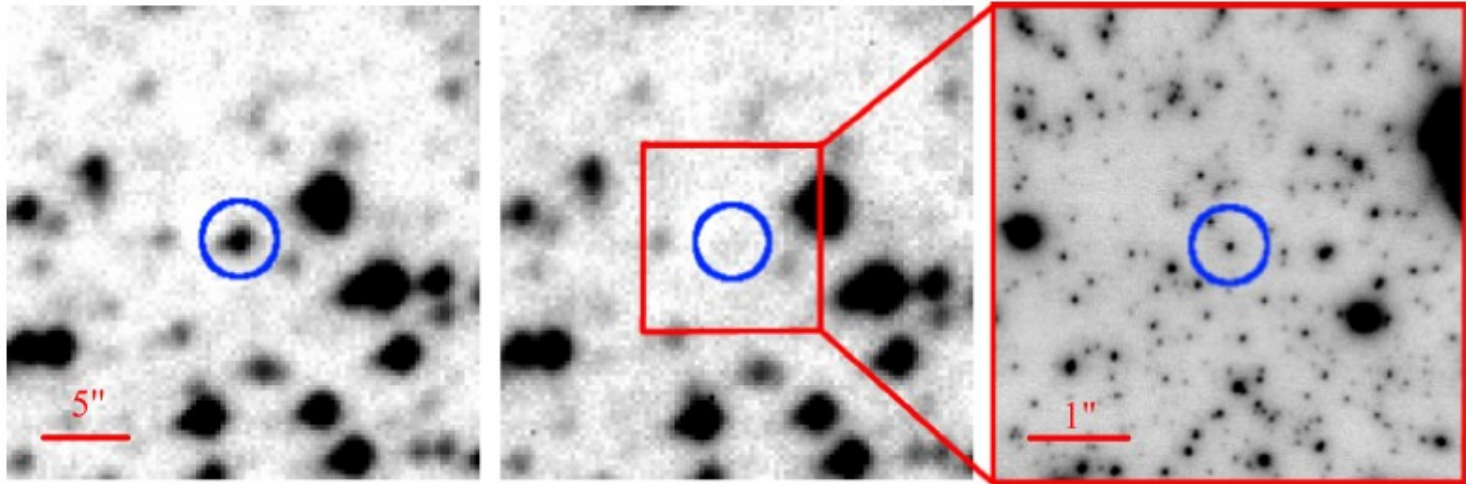
$$m_p, r_{\perp}$$



Orbital Motion

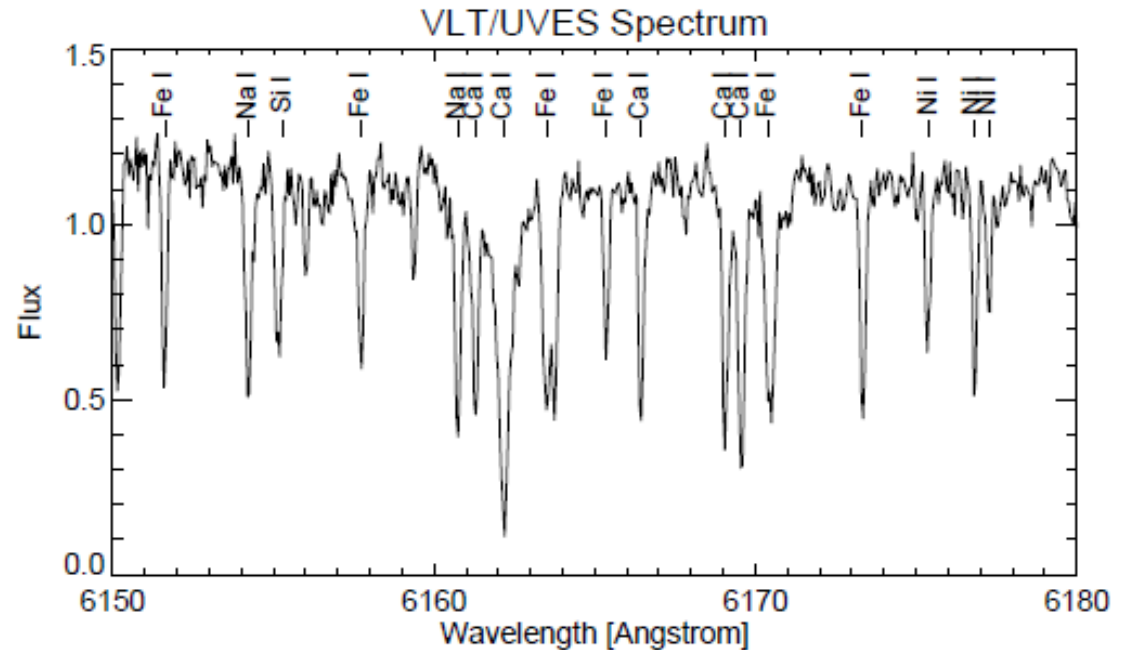
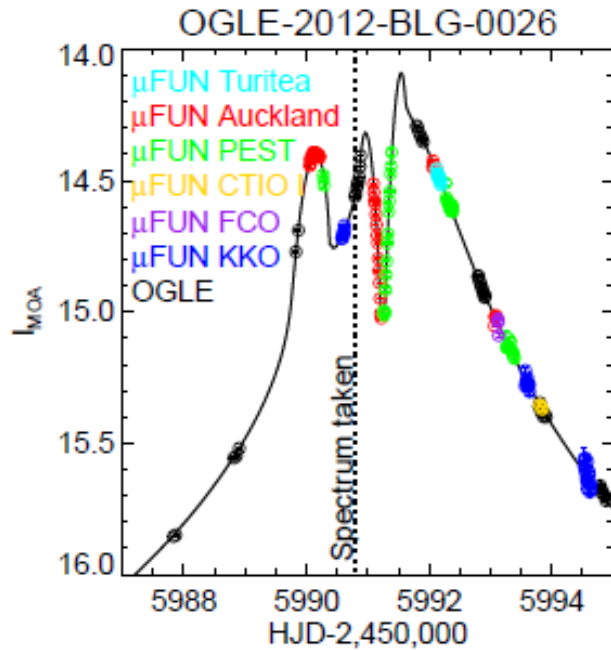


Adaptive Optics Imaging



M_L

Spectra



OGLE-2008-279

OGLE

MOA

μ FUN Bronberg

μ FUN HHO I

μ FUN HHO U

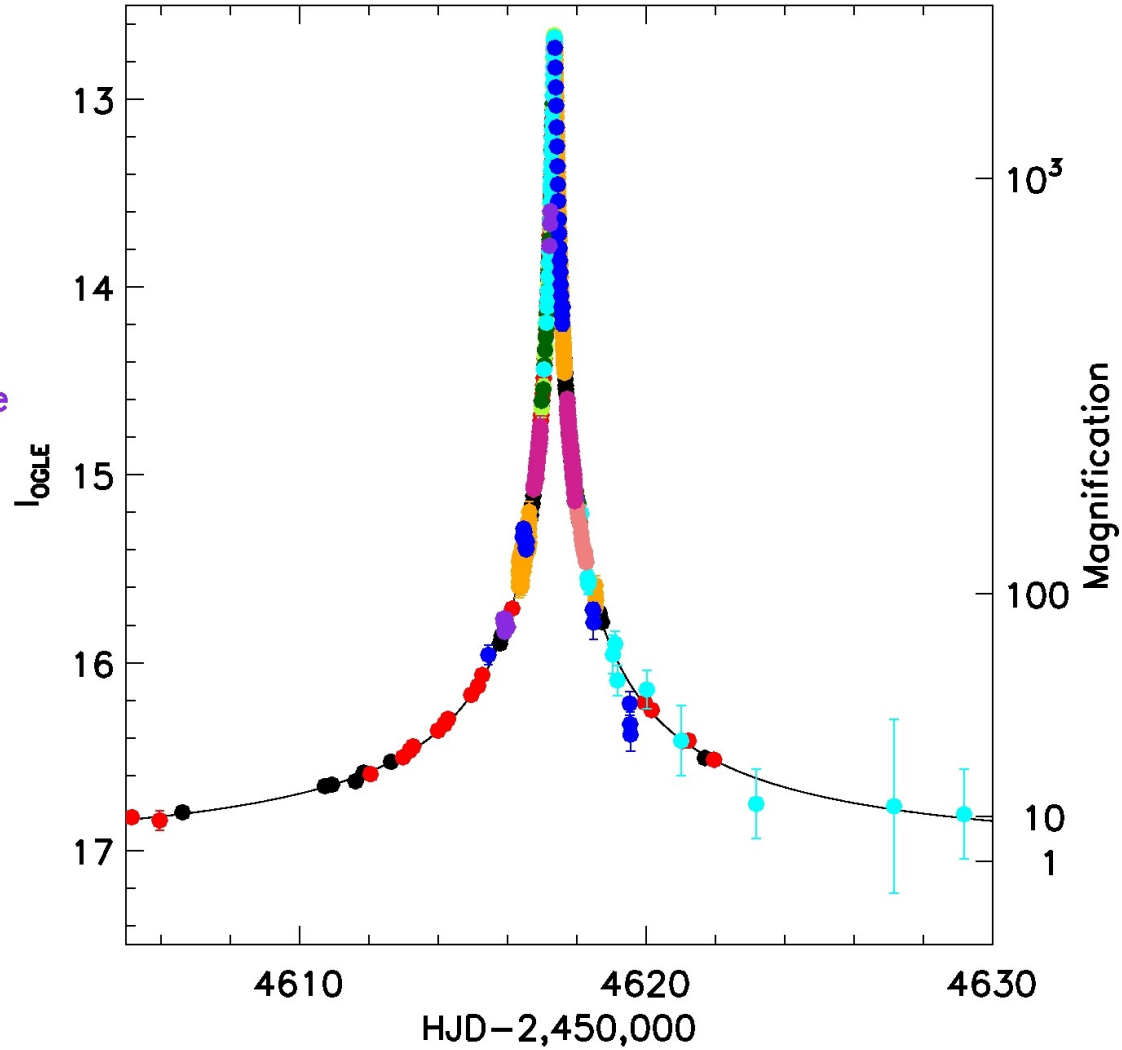
PLANET UTas

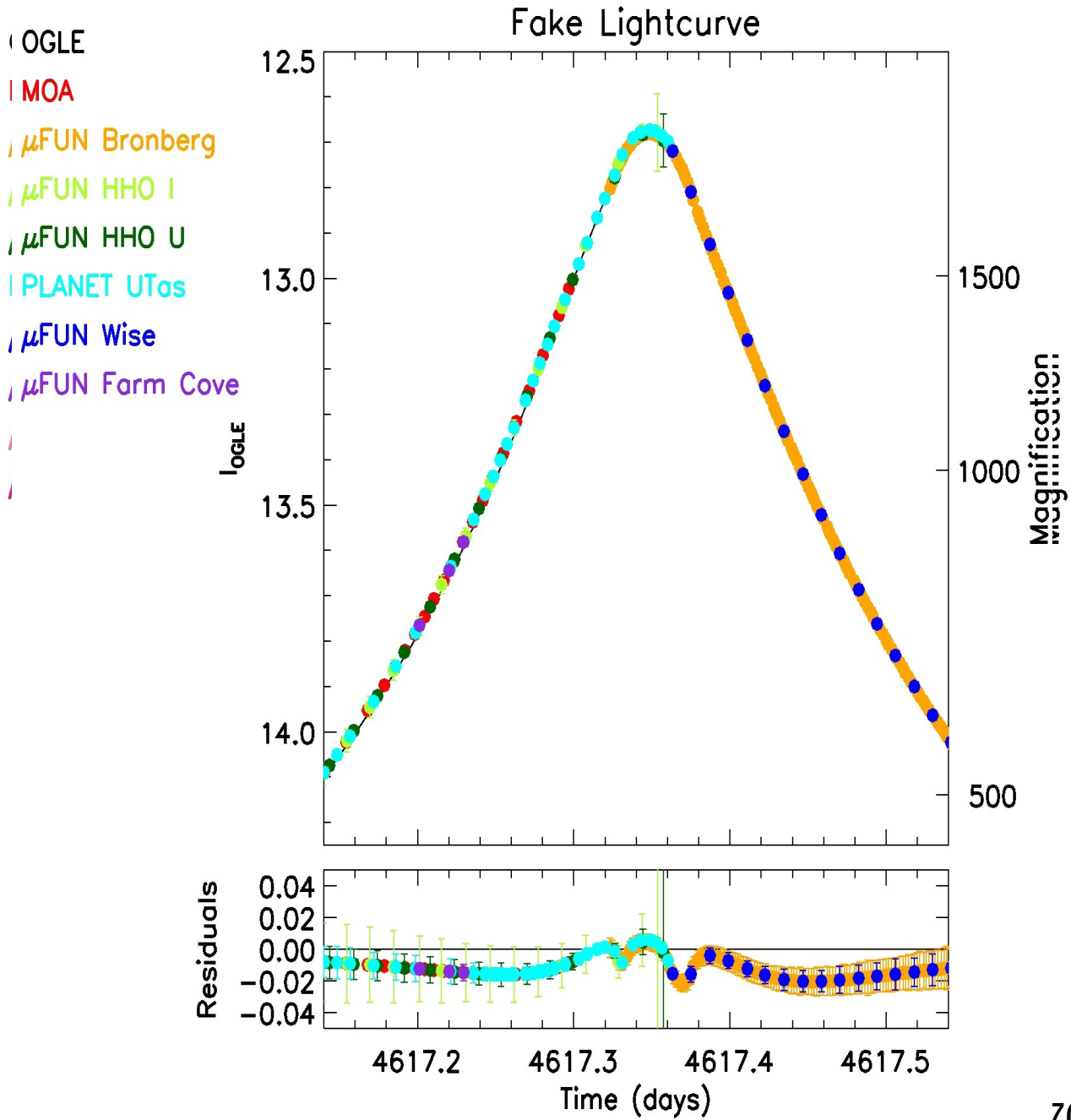
μ FUN Wise

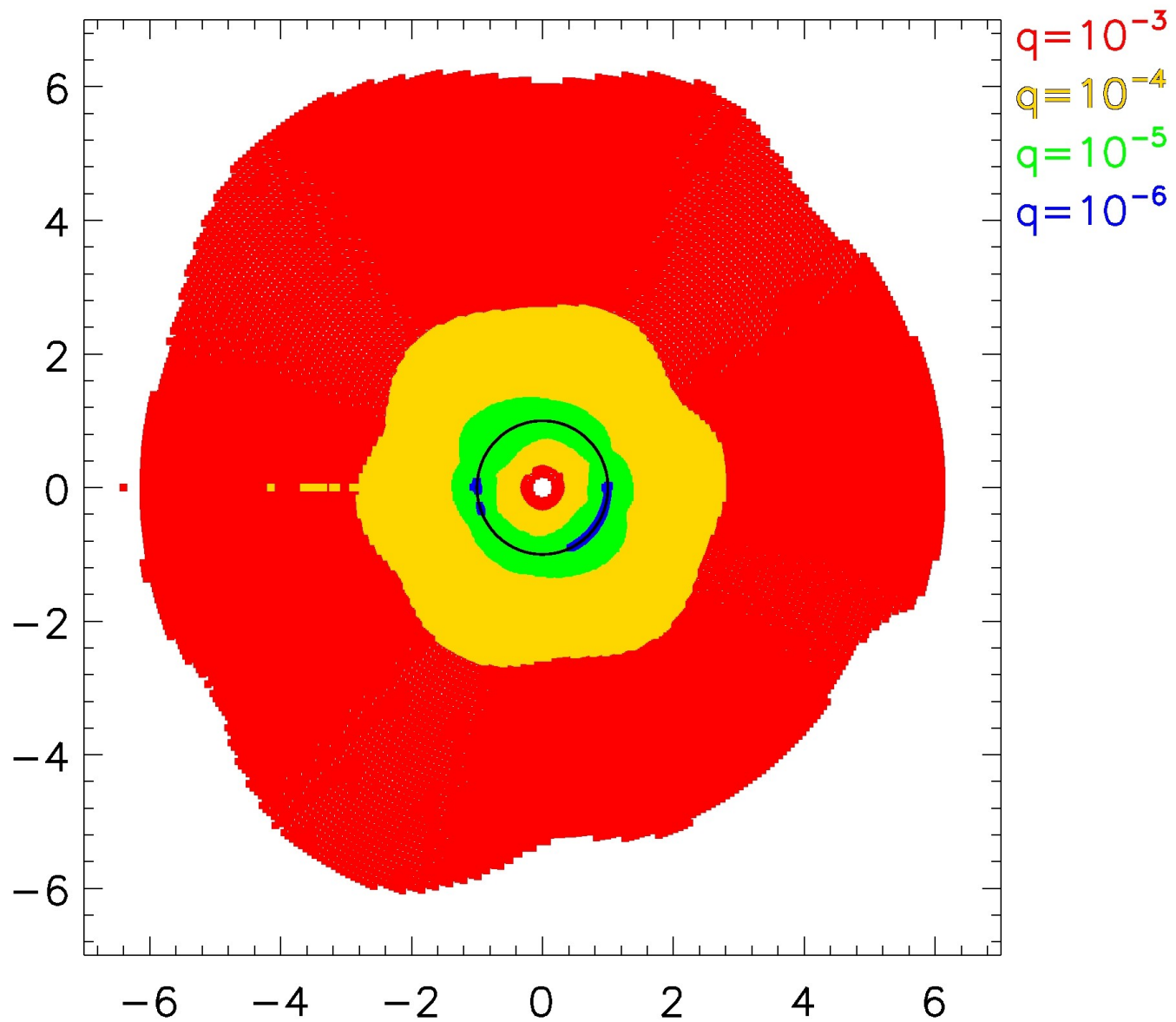
μ FUN Farm Cove

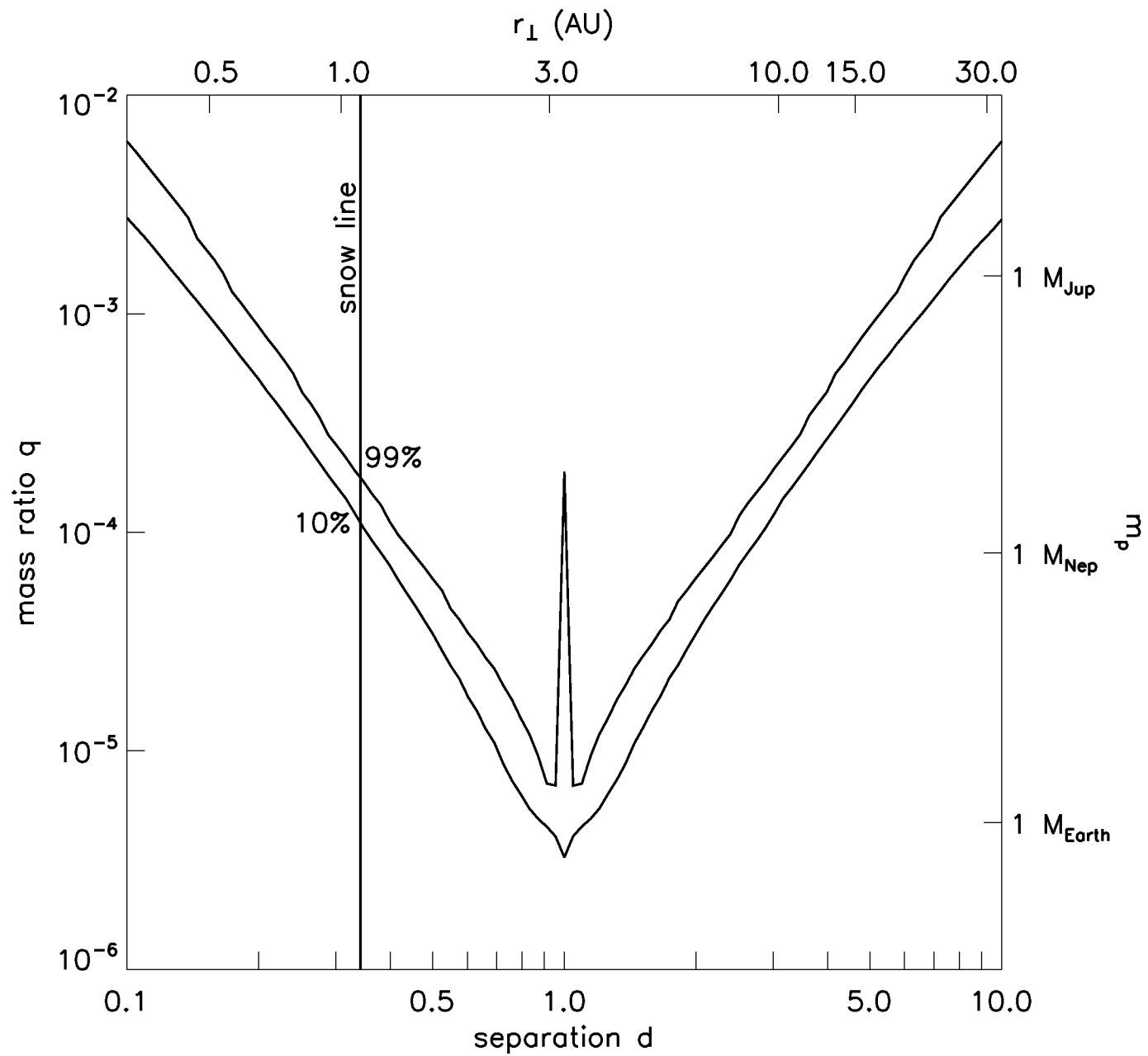
μ FUN CTIO I

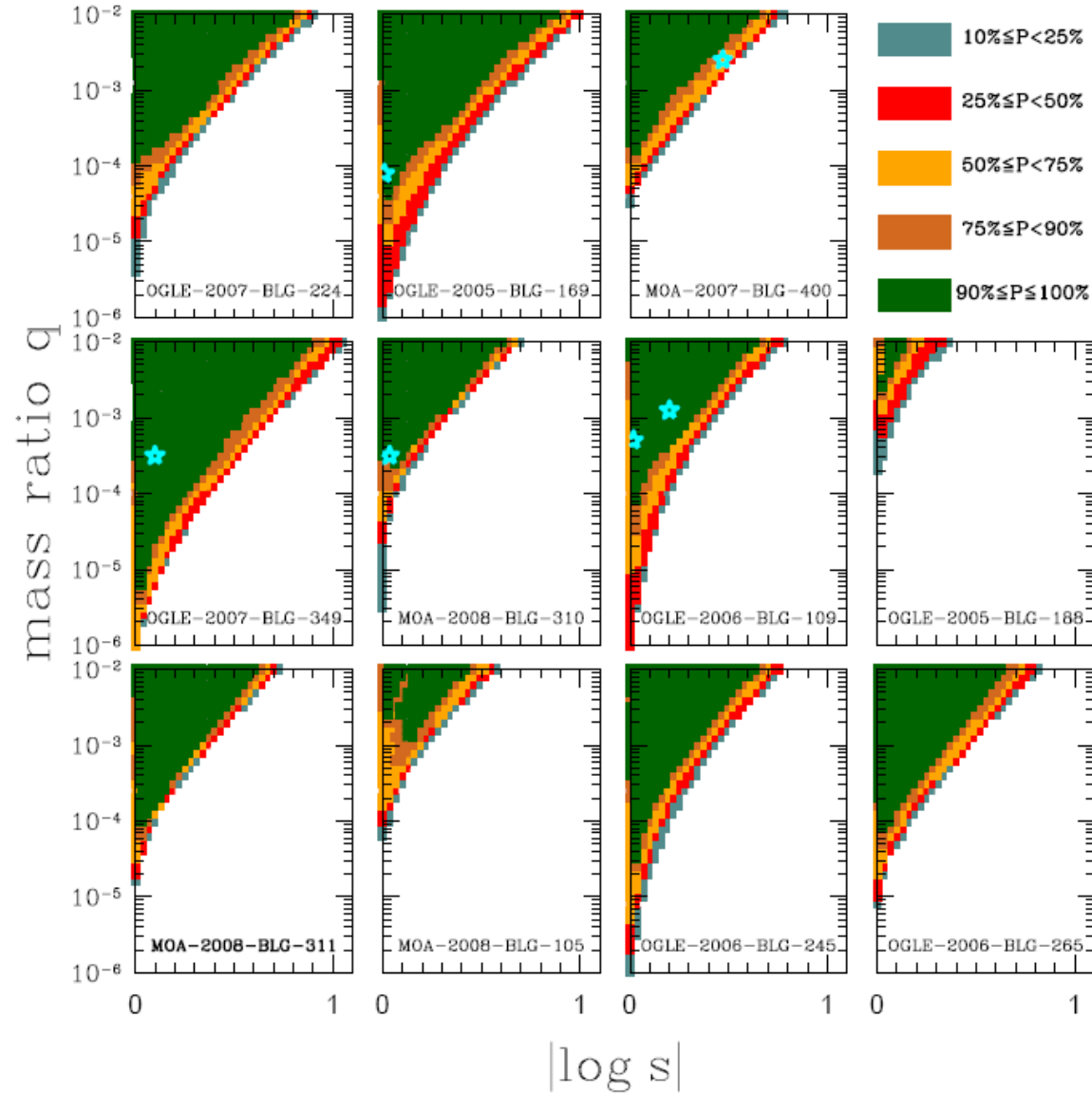
μ FUN CTIO V

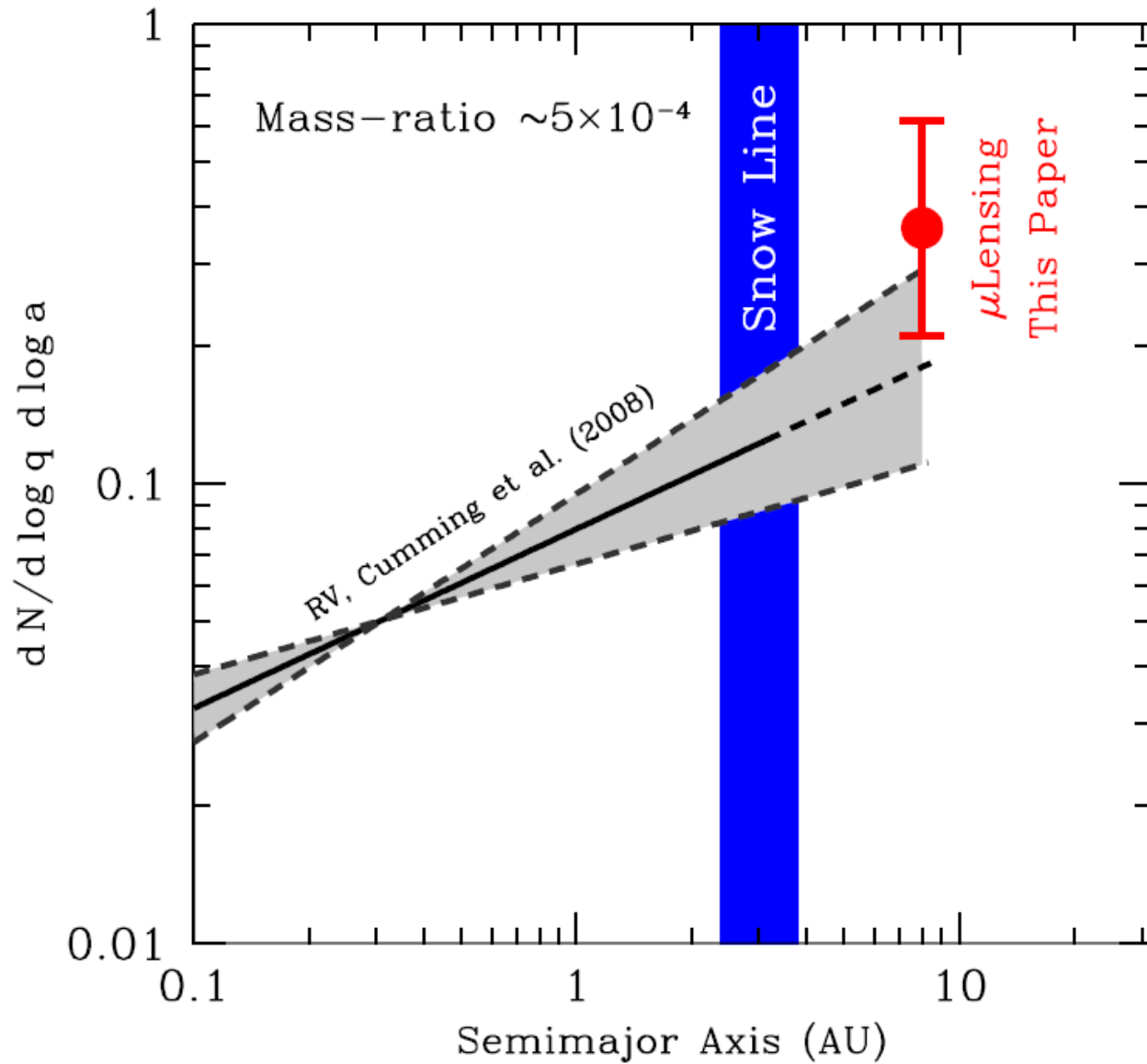




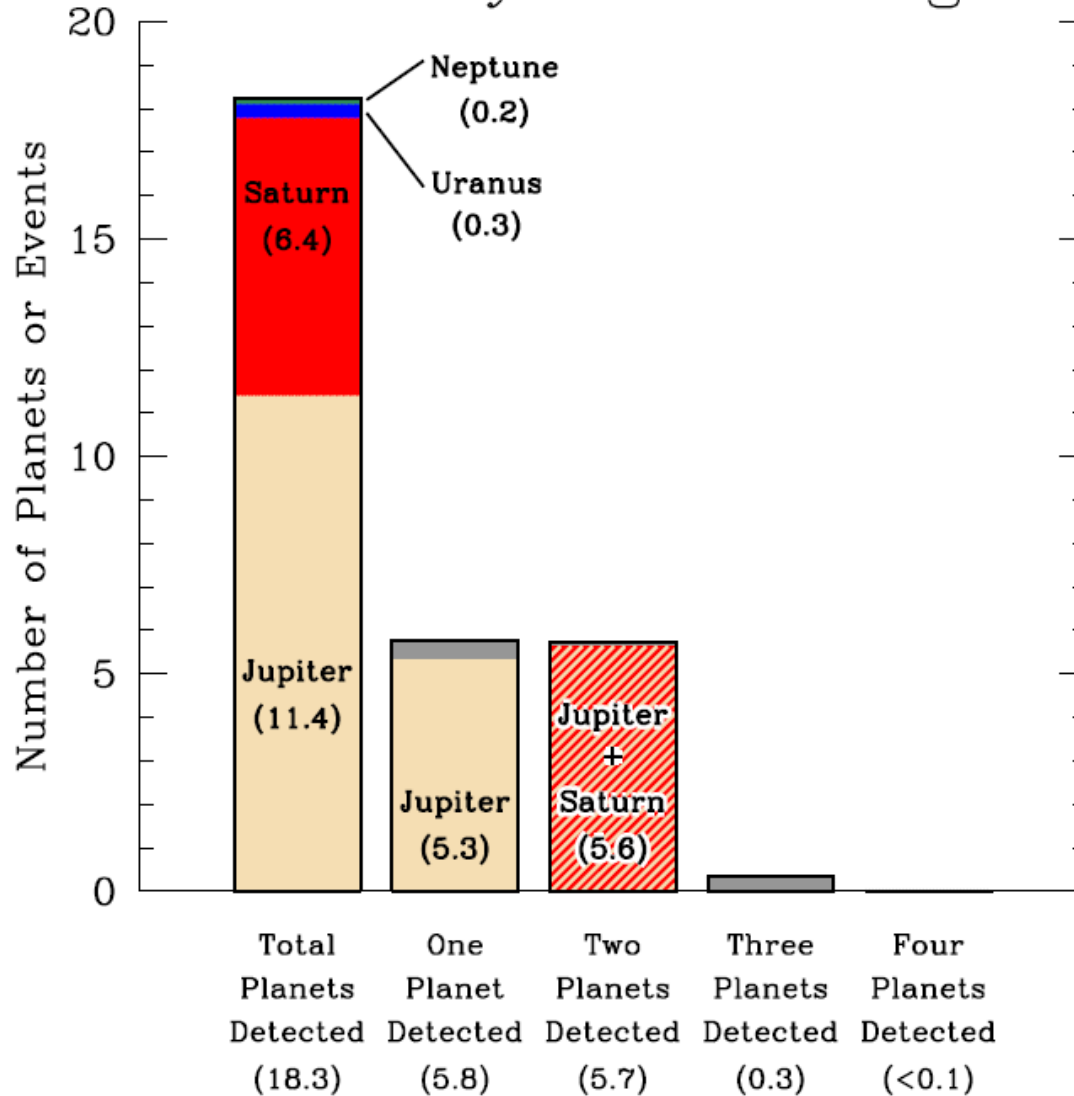


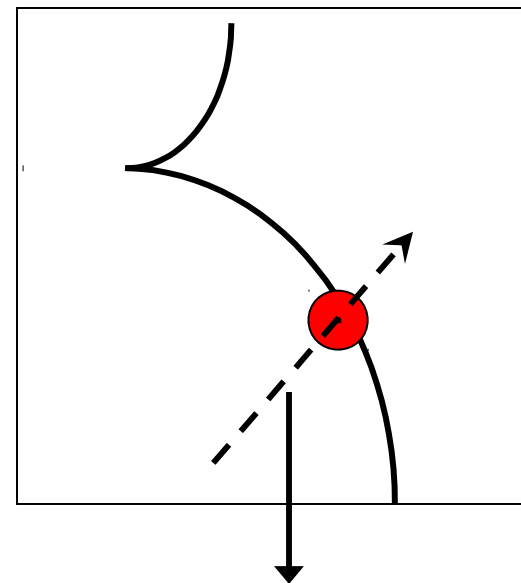
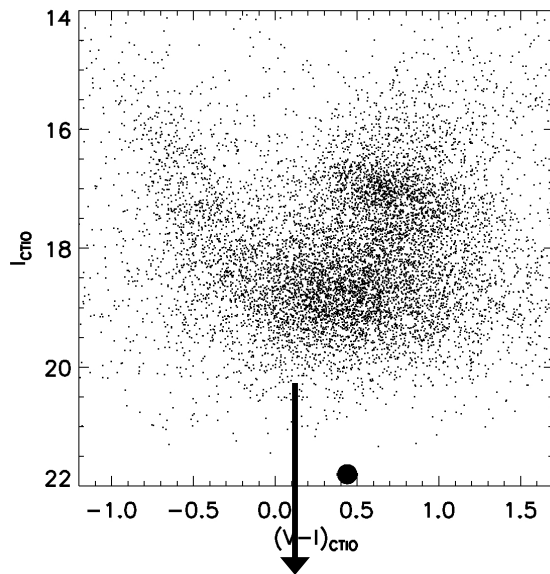
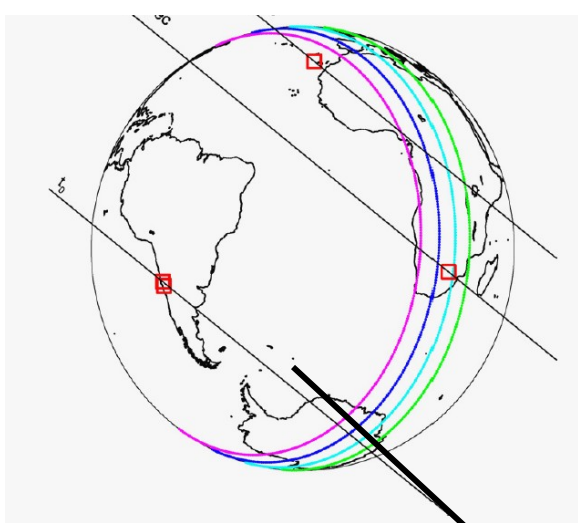






Solar System Analogs





$$\theta_* + \rho$$

$$\pi_E + \theta_E$$

$$q, s + M_L, D_L$$

$$m_p, r_{\perp}$$

