HARVARD-SMITHSONIAN

## CENTER FOR ASTROPHYSICS

# Spitzer as Microlens Parallax Satellite: OGLE-2014-BLG-0939 

Jennifer C. Yee

Sagan Fellow


## Spitzer Events (w/ $\geq 10$ obs)

Point Lens 32
Binaries
7
Planets
3 (1+2?)
Total
42

## All OGLE Events - Spitzer Events




## Distribution of Spitzer Events




## OGLE-2014-BLG-0939



## OGLE-2014-BLG-0939



## OGLE-2014-BLG-0939



## Timeline of Spitzer Observations

 6814

6849
6856


Yee et al. 2014, ApJ submitted, arXiv:1410.5429

## Earth <br> $\rightarrow \mathrm{t}_{0,1} \pm \mathrm{u}_{0,1}$



## Earth <br> $\rightarrow \mathrm{t}_{0,1}, \pm \mathrm{u}_{0,1}$

Spitzer
$\rightarrow \mathrm{t}_{0,2} \pm \mathrm{u}_{0,2}={ }^{\circ}$


## Earth <br> $\rightarrow \mathrm{t}_{0,1}, \pm \mathrm{u}_{0,1}$

Spitzer
$\rightarrow \mathrm{t}_{0,2} \pm \mathrm{u}_{0,2}={ }^{\circ}$


## Earth <br> $\rightarrow \mathrm{t}_{0,1}, \pm \mathrm{u}_{0,1}$

Spitzer
$\rightarrow \mathrm{t}_{0,2} \pm \mathrm{u}_{0,2}={ }^{\circ}$


## Earth $\rightarrow \mathrm{t}_{0,1}, \pm \mathrm{u}_{0,1}$

 Spitzer $\rightarrow \mathrm{t}_{0,2} \pm \mathrm{u}_{0,2}$ ~0

## Earth $\rightarrow \mathrm{t}_{0,1}, \pm \mathrm{u}_{0,1}$ Spitzer $\rightarrow \mathrm{t}_{0,2} \pm \mathrm{u}_{0,2} \quad{ }^{\circ}$



## Earth $\rightarrow \mathrm{t}_{0,1}, \pm \mathrm{u}_{0,1}$ Spitzer $\rightarrow \mathrm{t}_{0,2} \pm \mathrm{u}_{0,2} \quad{ }^{\circ}$




Yee et al. 2014, ApJ submitted, arXiv:1410.5429


Yee et al. 2014, ApJ submitted, arXiv:1410.5429


Yee et al. 2014, ApJ submitted, arXiv:1410.5429

