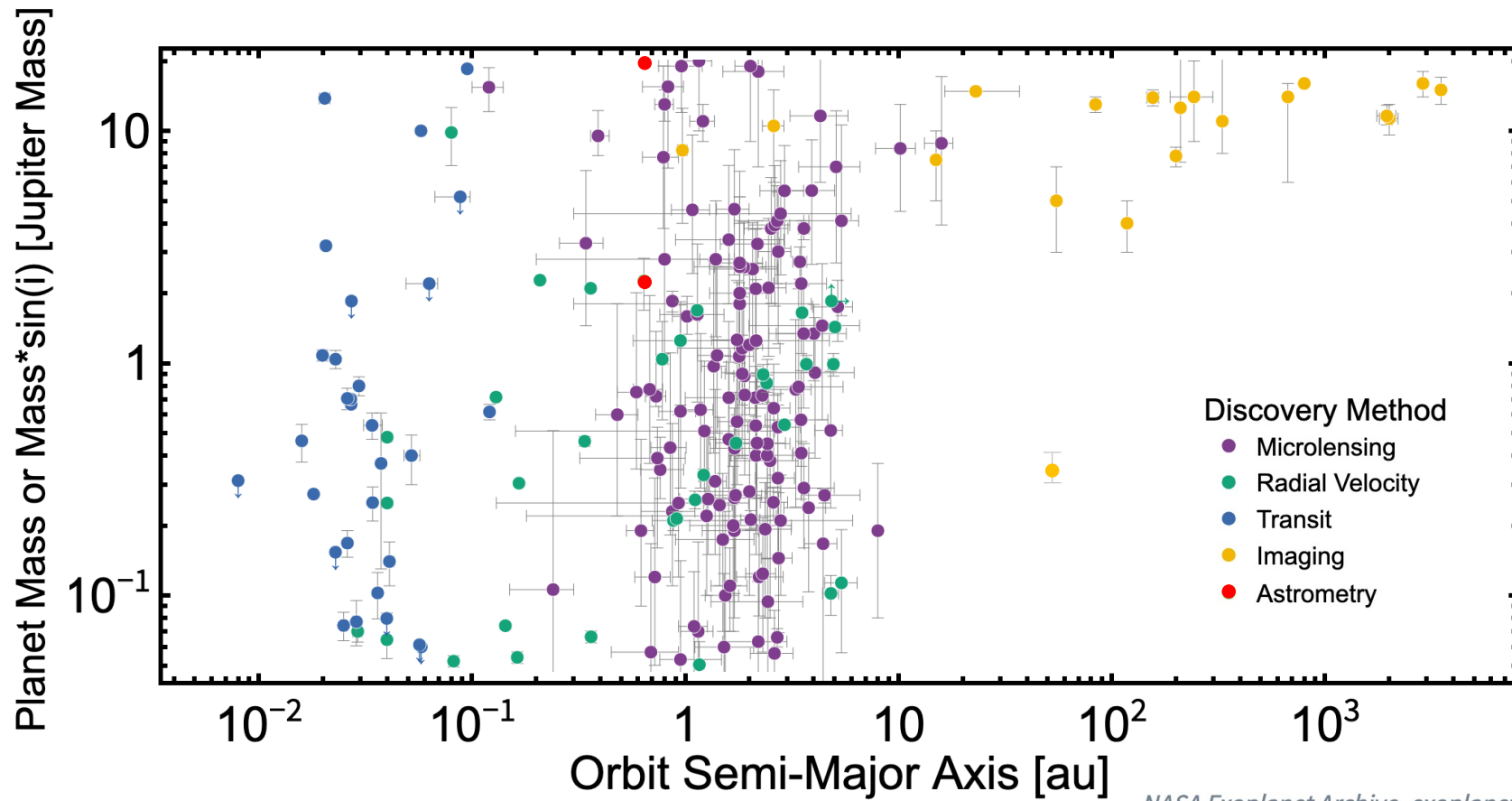


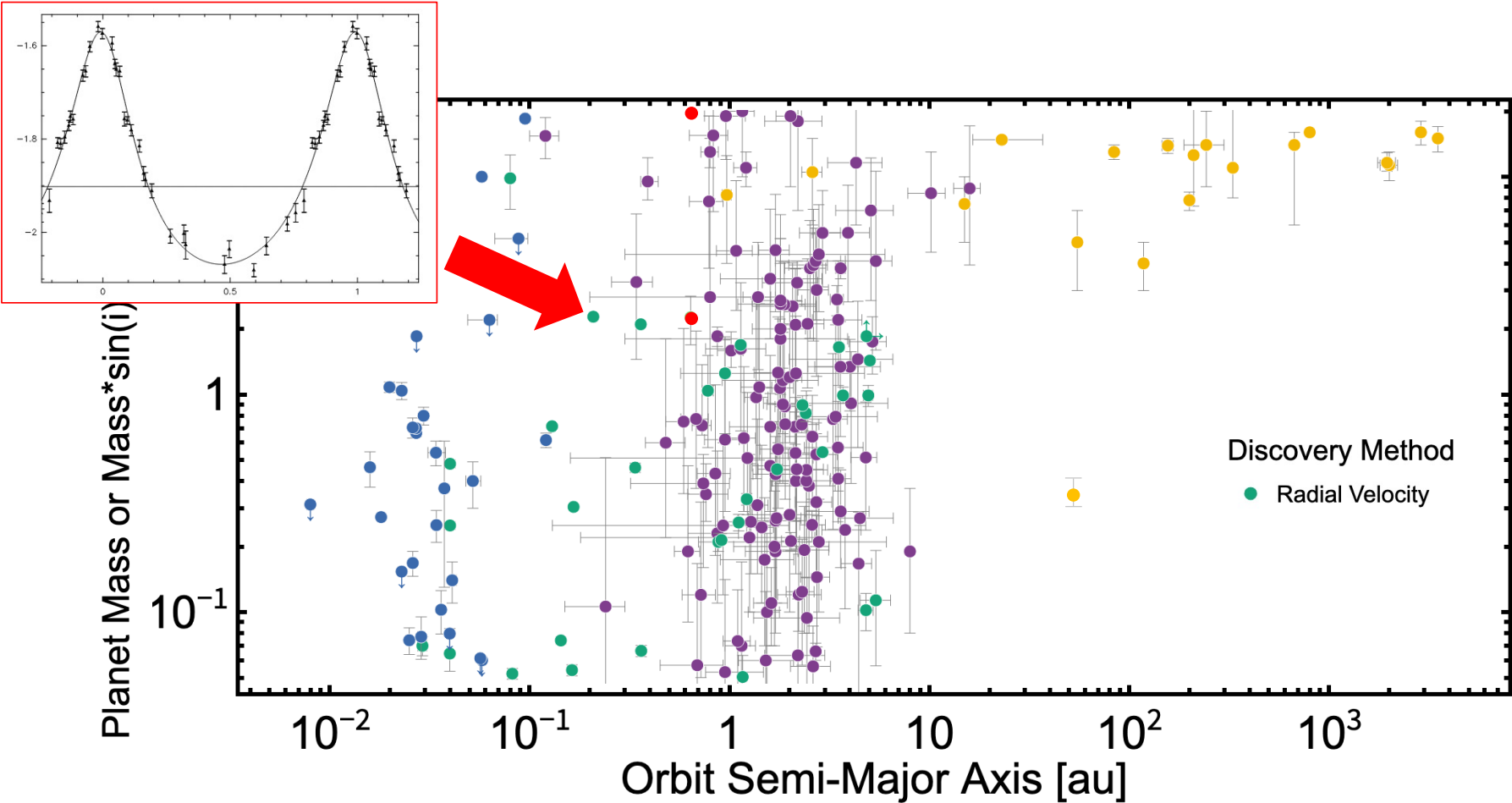
Session - Giant planets around M dwarfs

Short Introduction

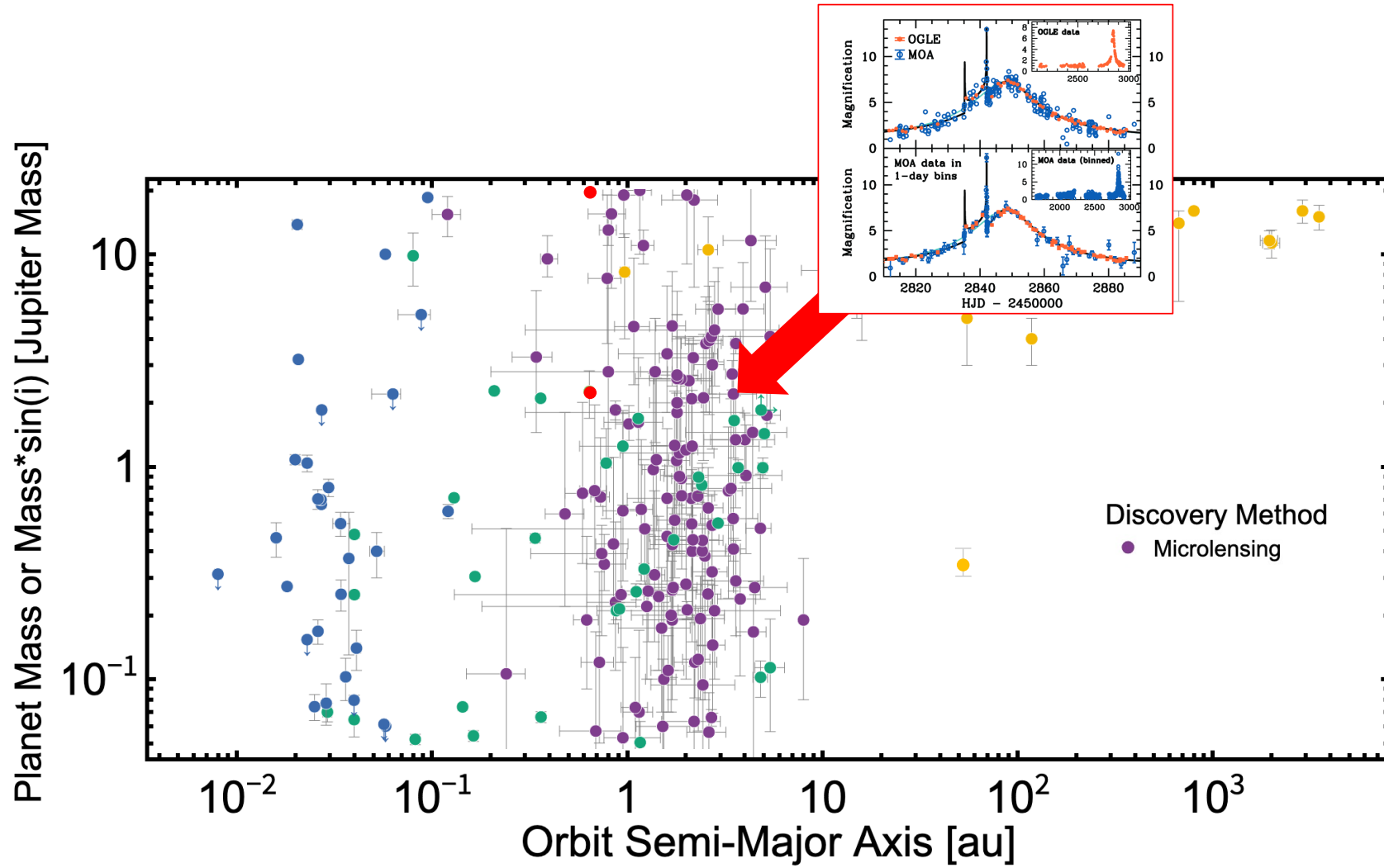


NASA Exoplanet Archive, exoplanetarchive.ipac.caltech.edu,

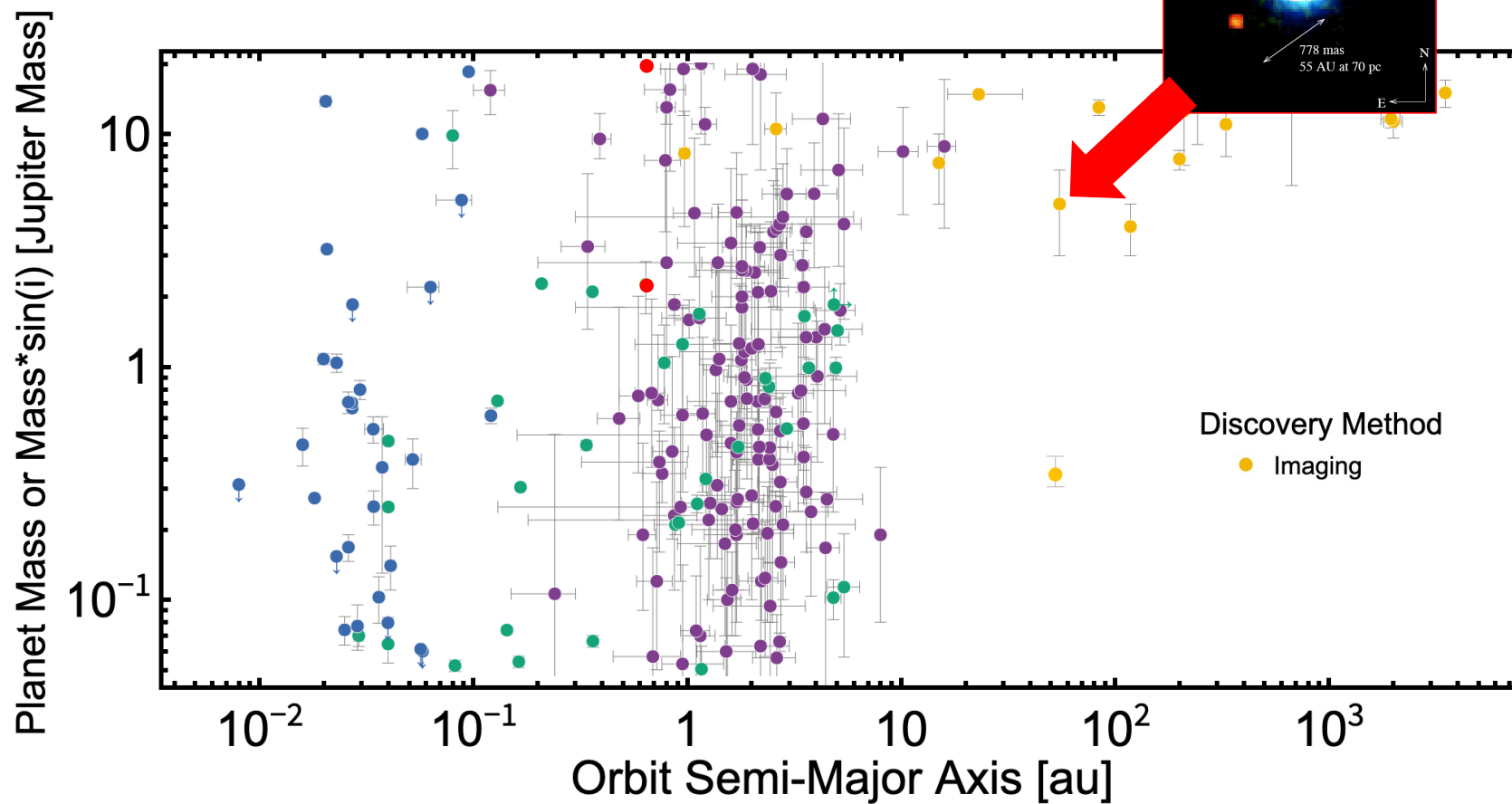
Gl876b (Delfosse+1998 / Marcy+1998)

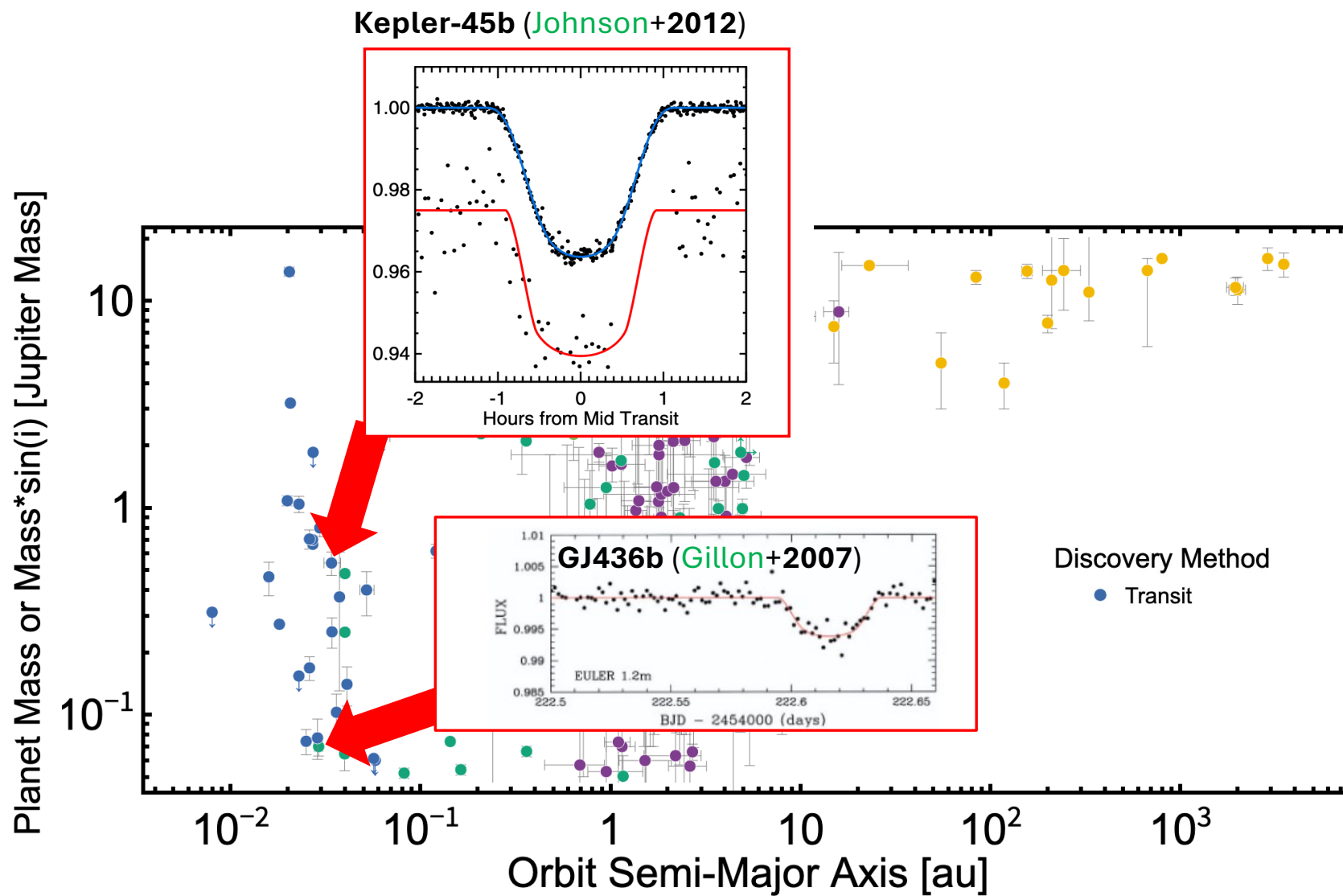


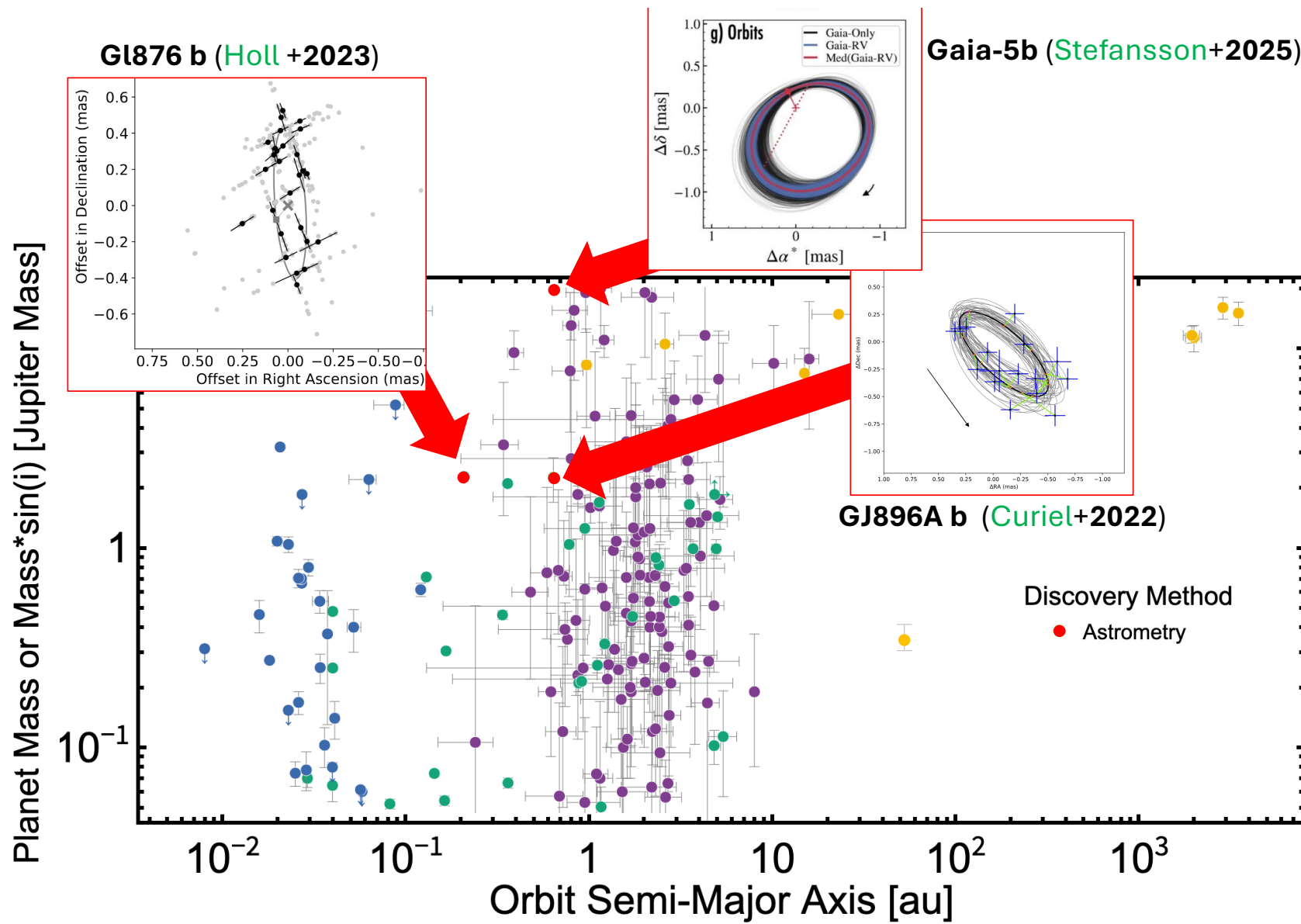
OGLE2003-BLG-235Lb (Bond et al. 2004)

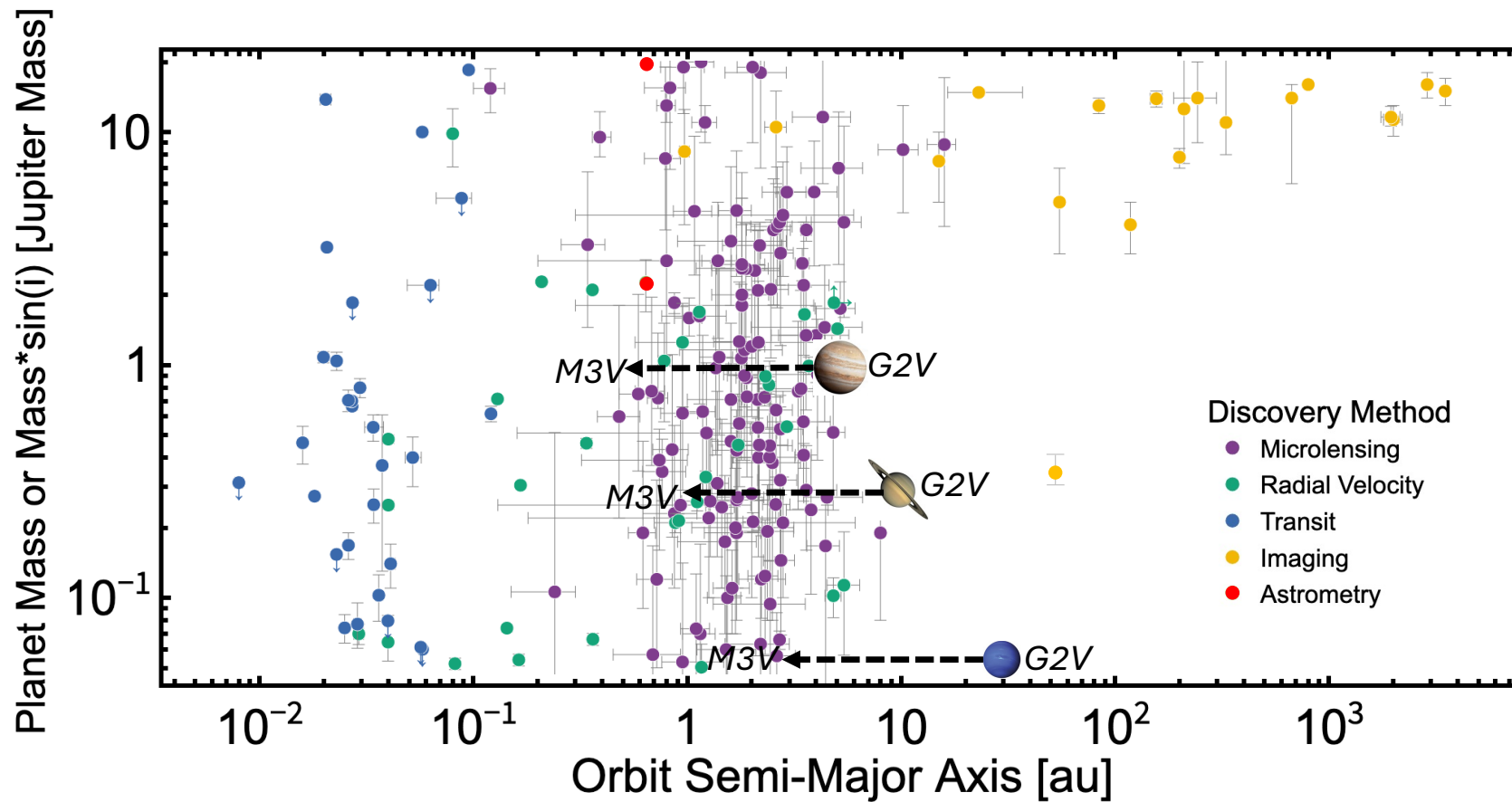


2MASSWJ 1207334-393254 (Chauvin+2004)







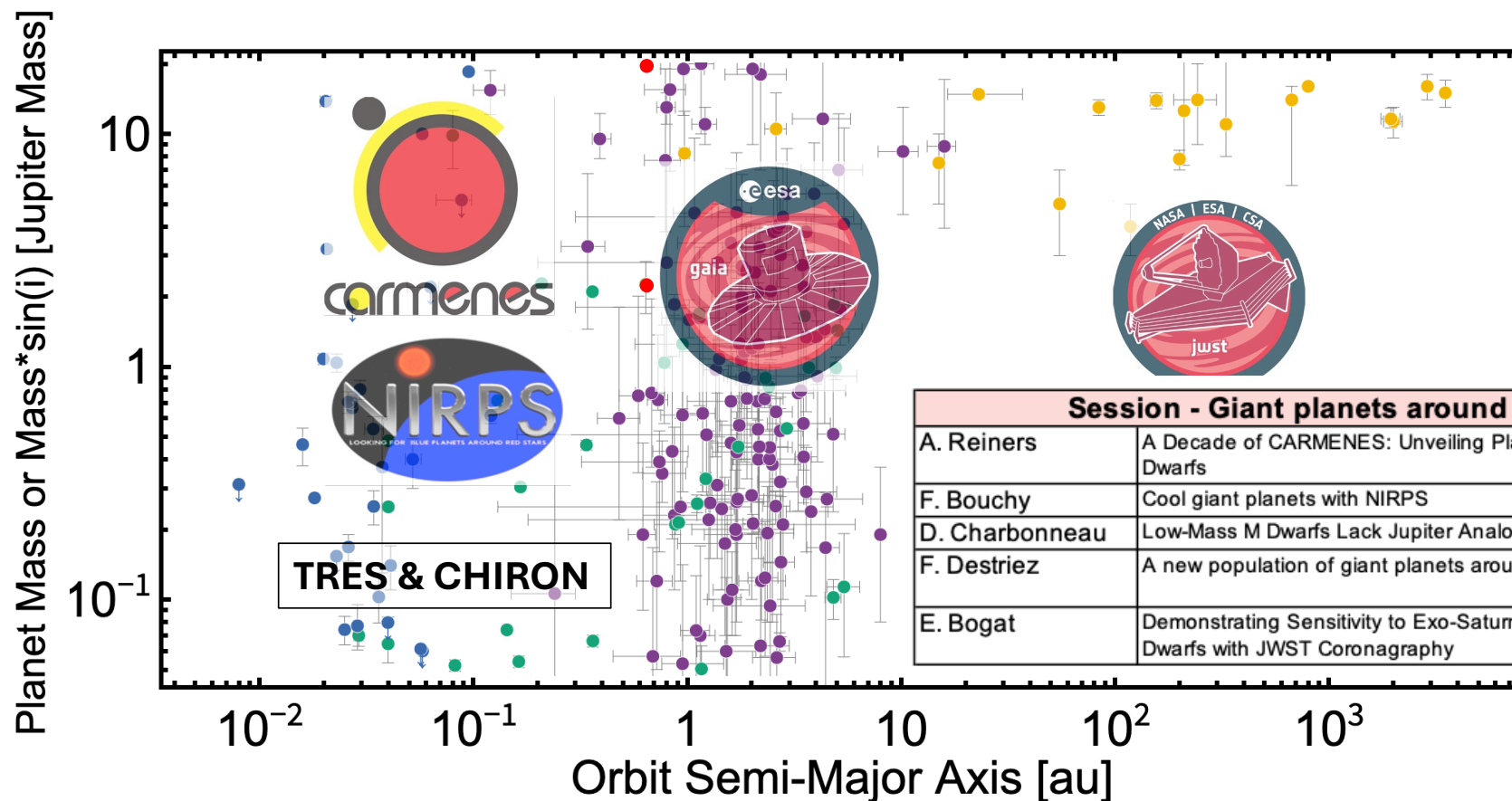


Session - Giant planets around M dwarfs

Scientific questions

- Occurrence rate of giant planets around M dwarfs ($0.3 - 0.6 M_{\odot}$),
late M dwarfs ($0.1 - 0.3 M_{\odot}$) and Ultra Cool dwarfs ($<0.1 M_{\odot}$),
- Relationship with host star properties (mass, abundances, multiplicity, age,),
- Architecture of planetary systems around M dwarfs
(radius gap, multiplicity, solar-system like,),
- Constrain formation and evolution processes,
- Identify temperate exoplanets & golden targets for future direct imaging
and atmospheric characterization

Session - Giant planets around M dwarfs



Best strategies to identify planets amenable for direct imaging with ELT ?

Gap in the parameter space with present surveys ?

Are there good agreements in occurrence rates from different surveys ?