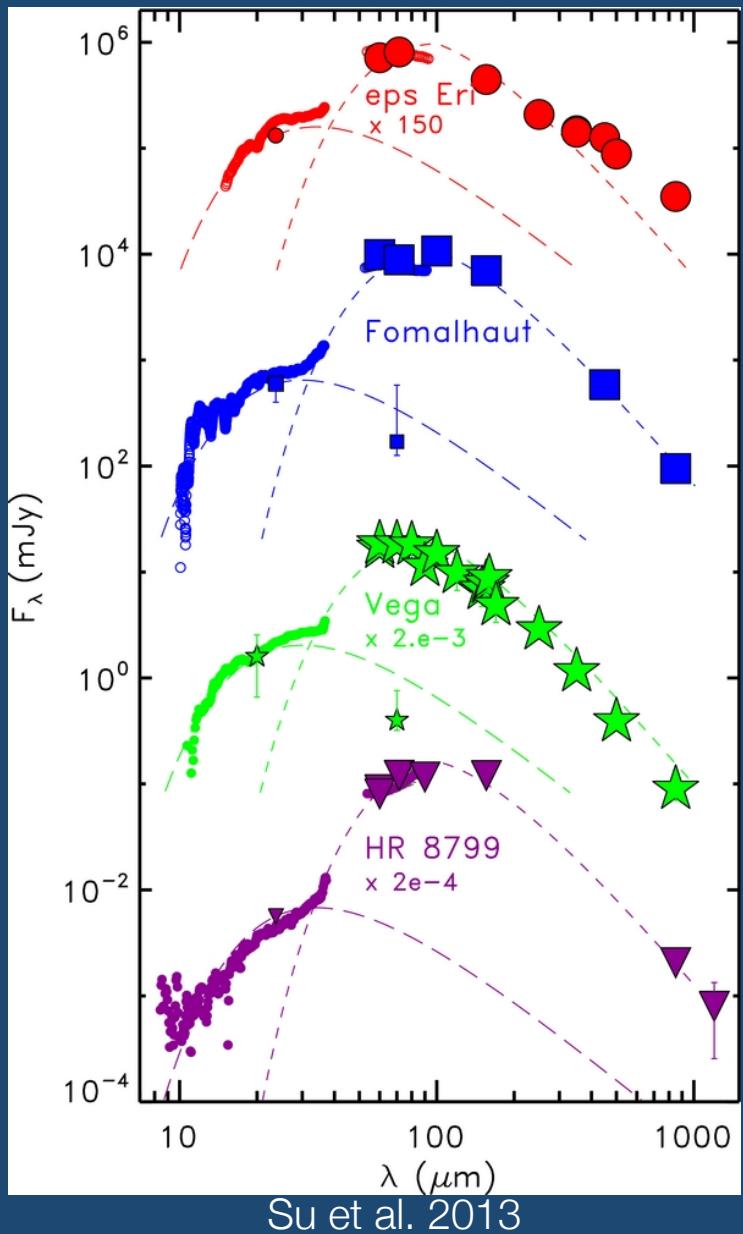


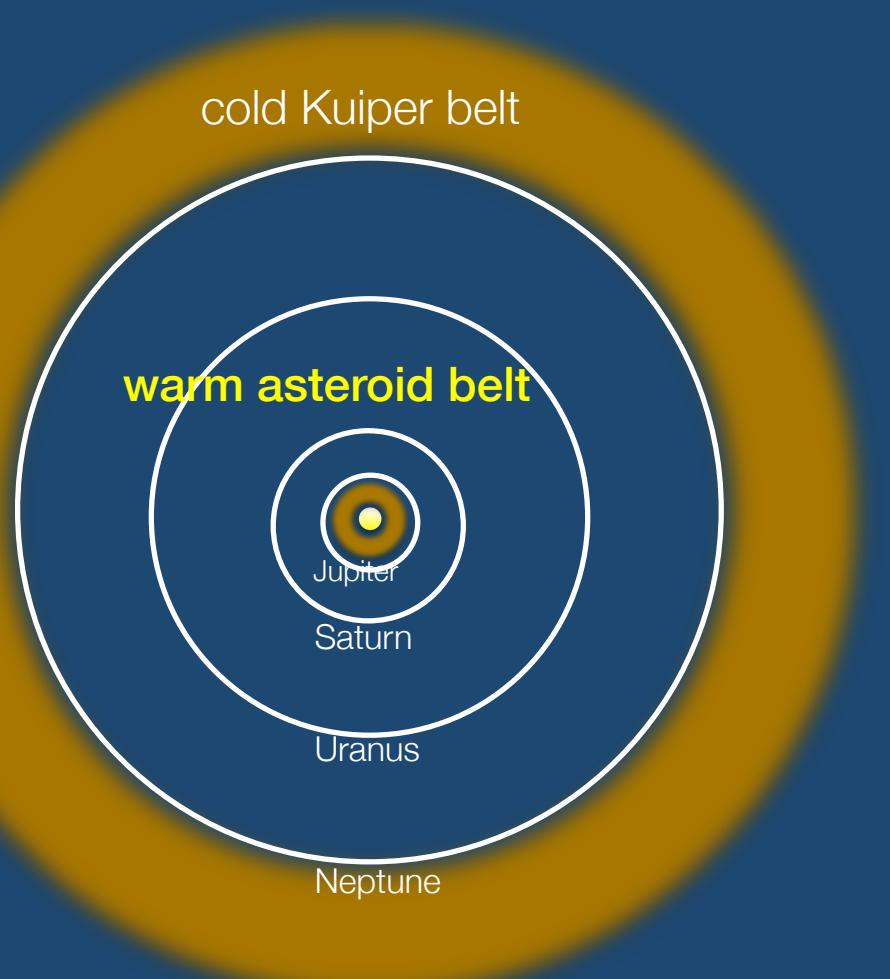
Filling in the Gaps in “Holey Disks”

Tiffany Meshkat, M. Kenworthy, V. Bailey,
K. Y. Su, P. Hinz, E. Mamajek
In Prep

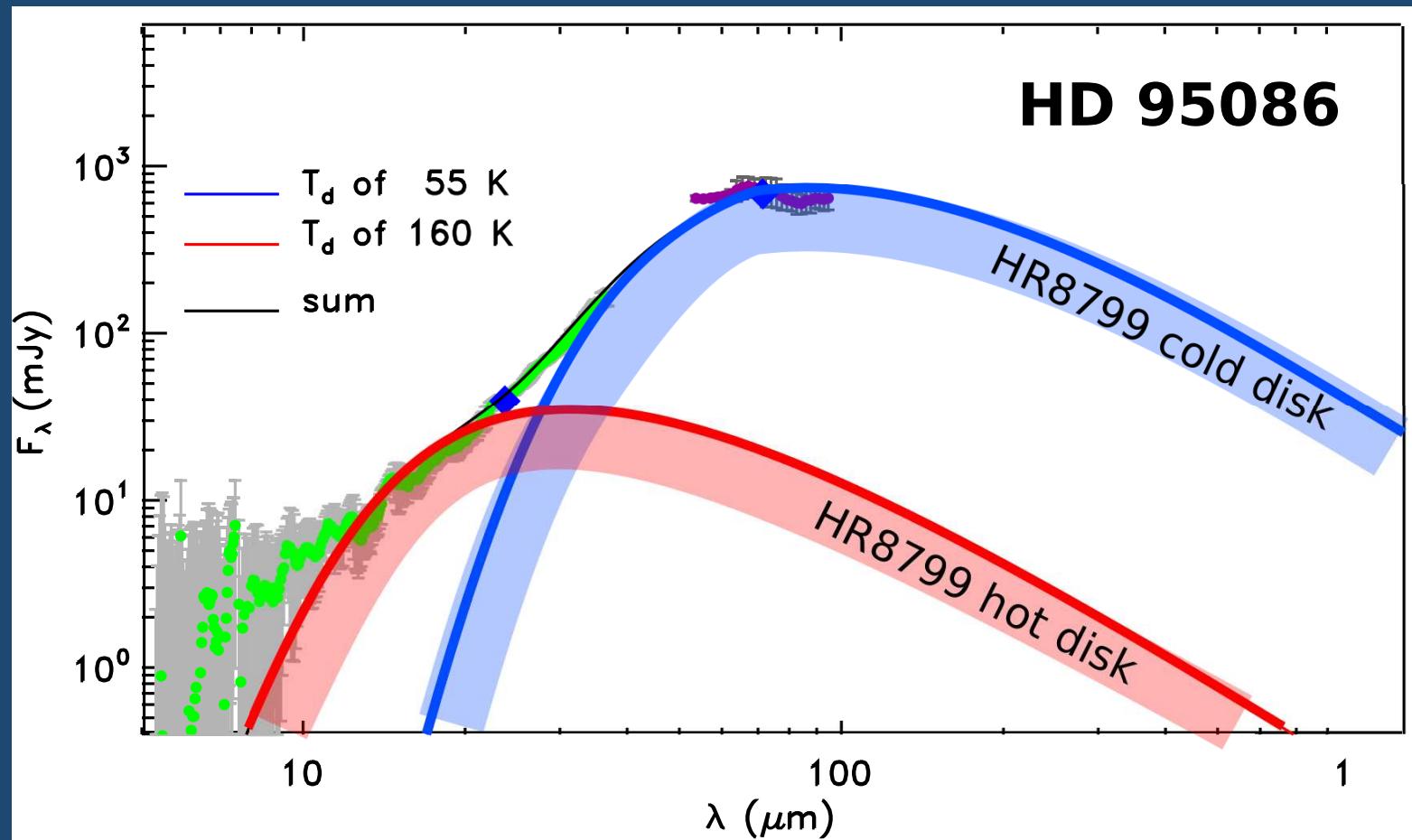
Signposts for planets



Our Solar System



“Holey Disks” Project

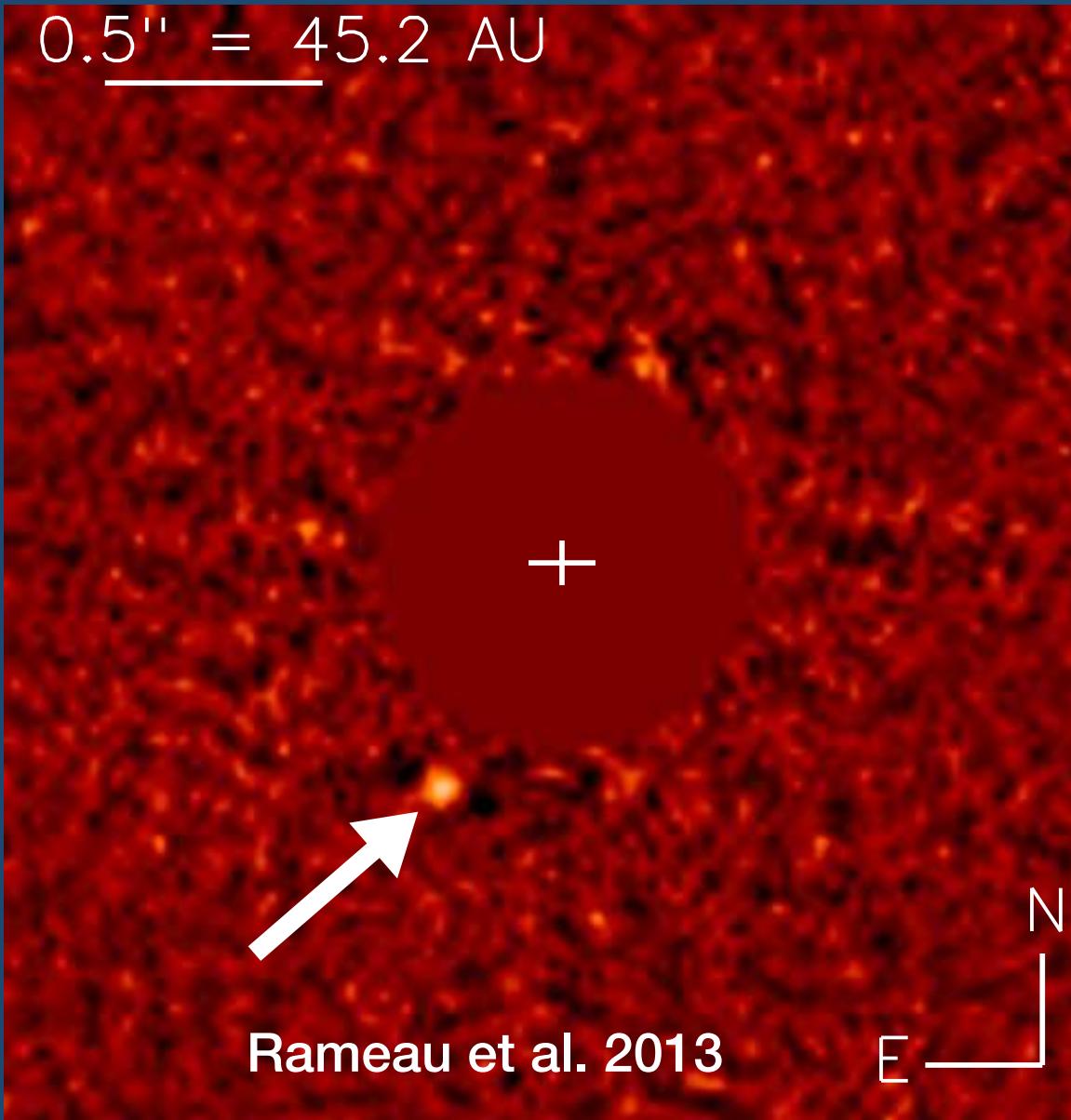


Su et al. in prep

Two planets detected!

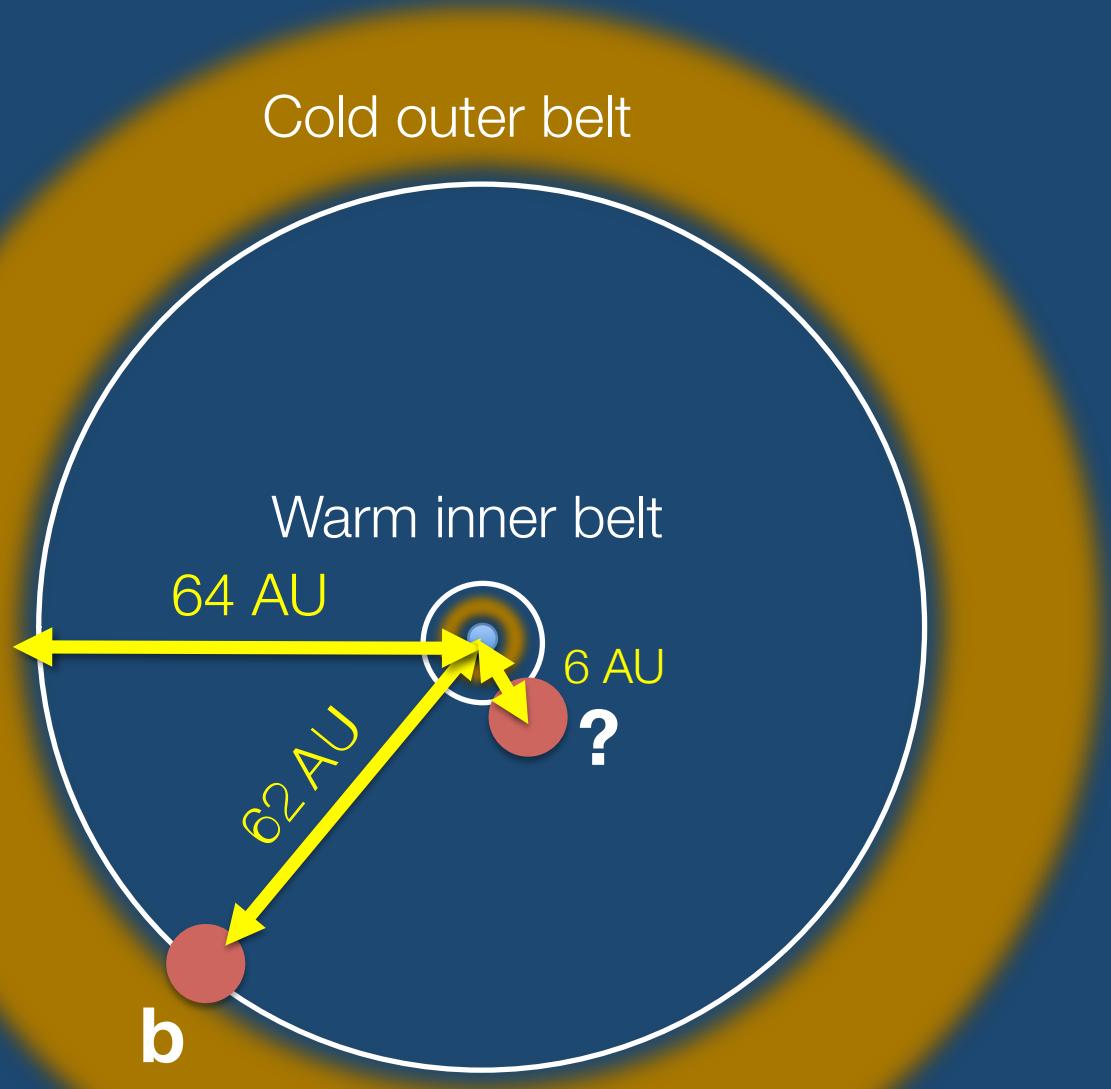
HD 95086 b

0.5'' = 45.2 AU



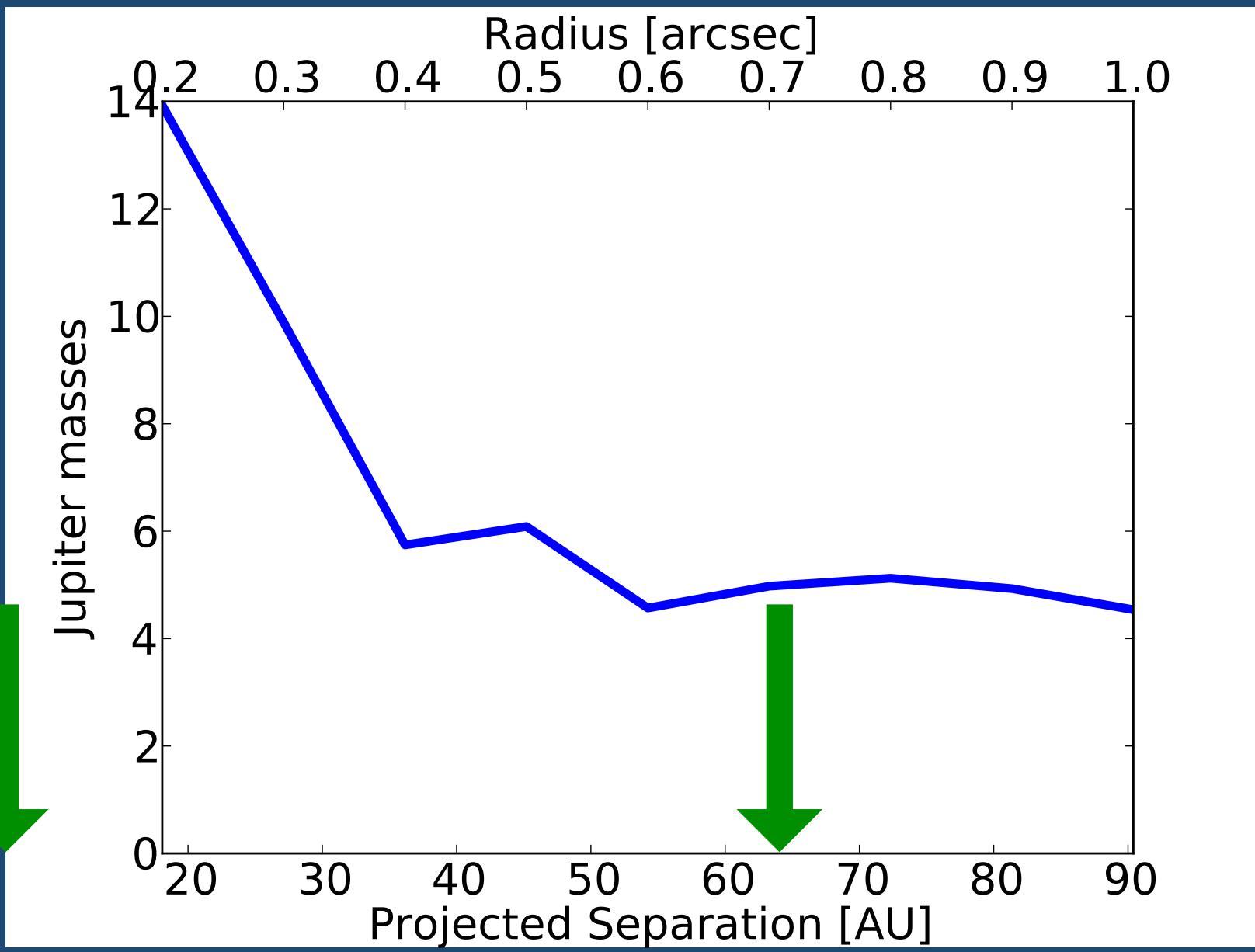
Rameau et al. 2013

HD 95086 disk structure

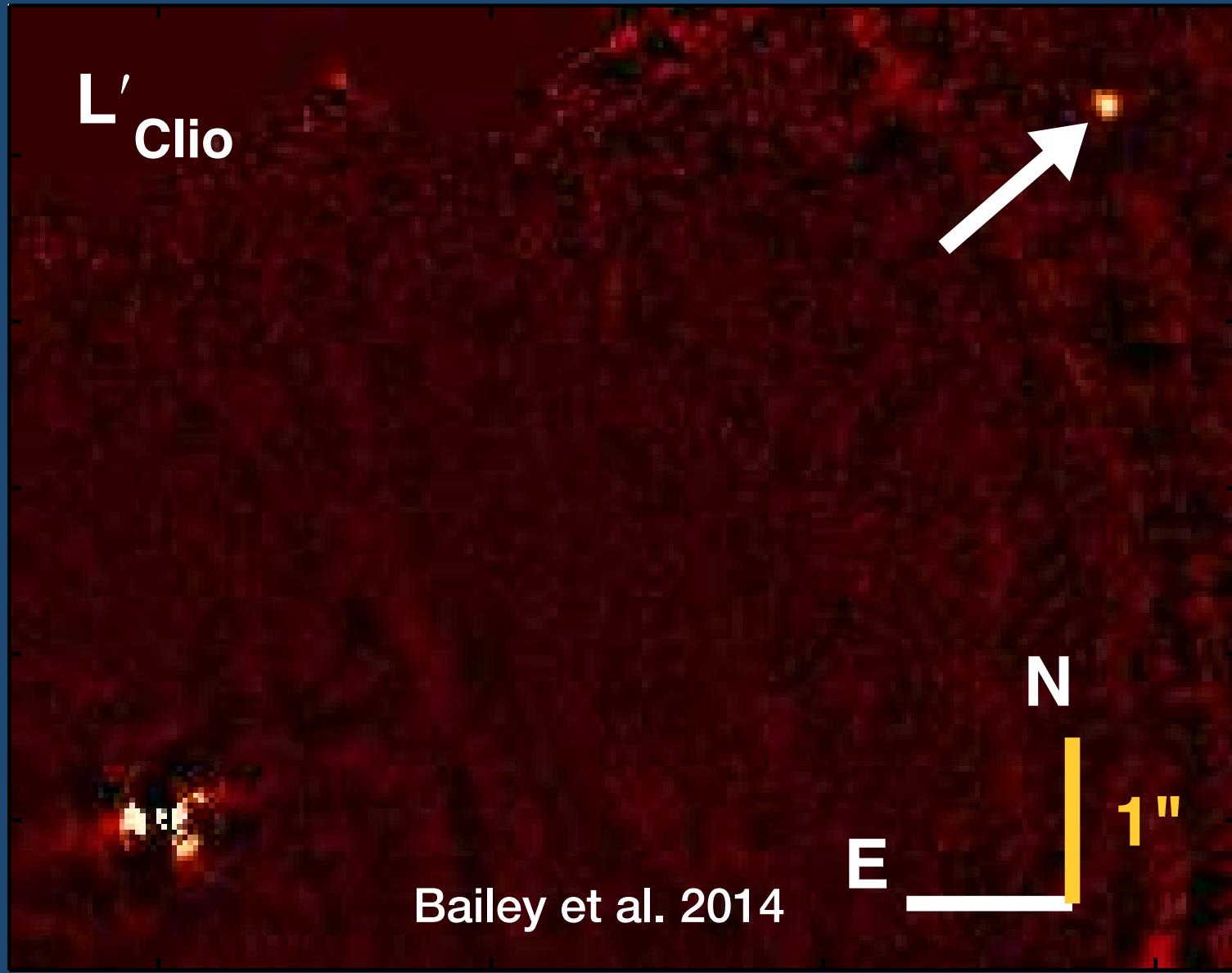


Moor et al. 2013

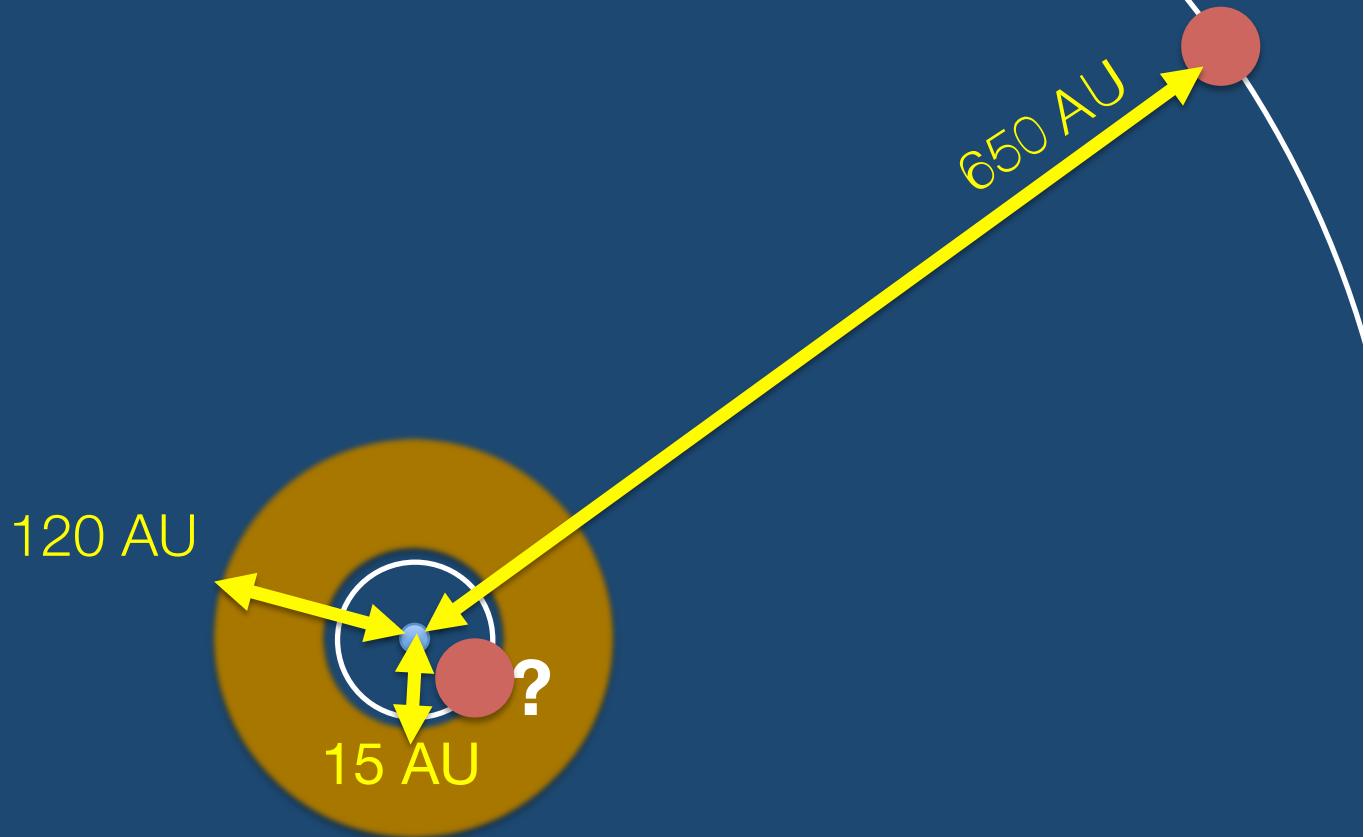
HD 95086 L' Mass Limit



HD 106906 b

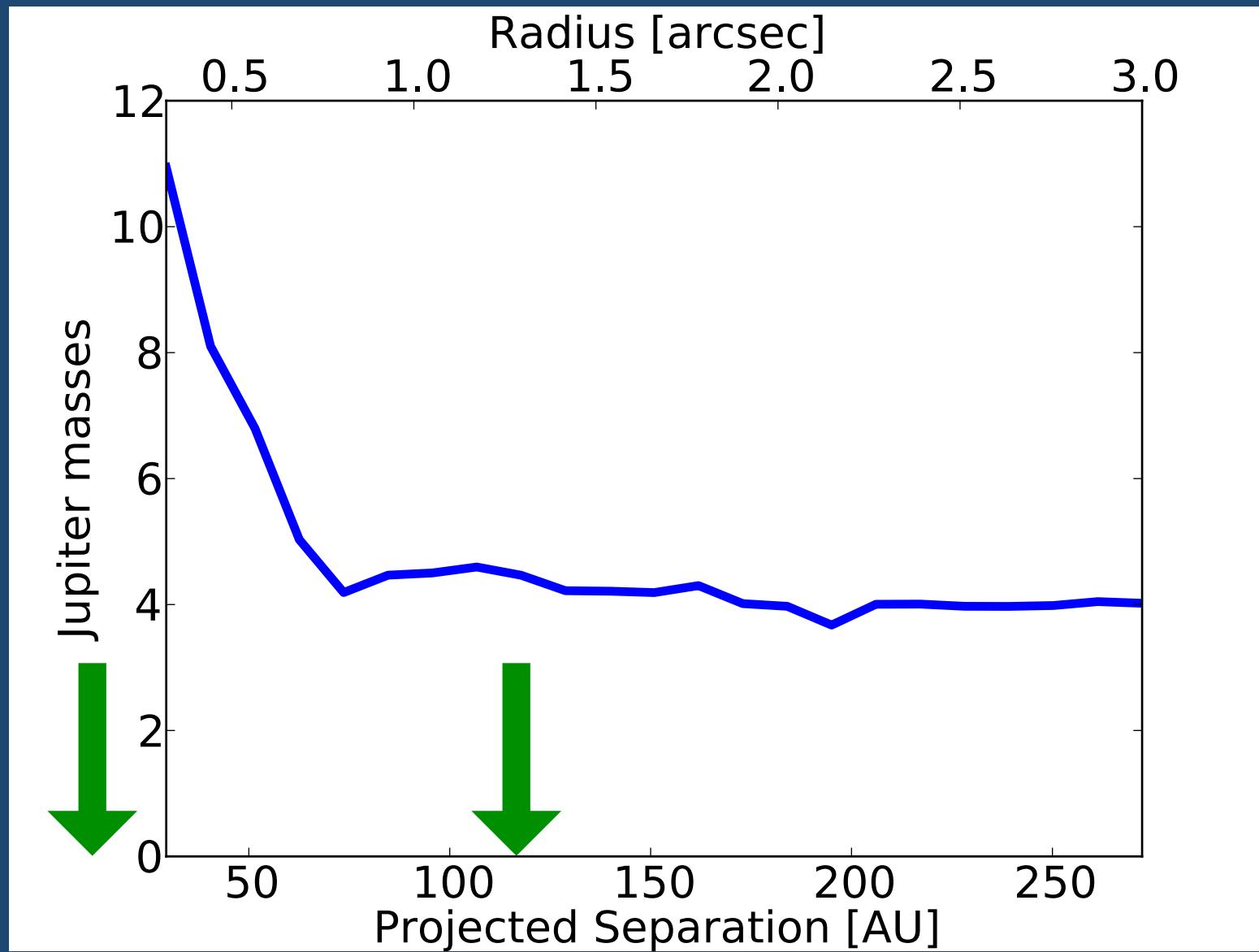


HD 106906 disk structure



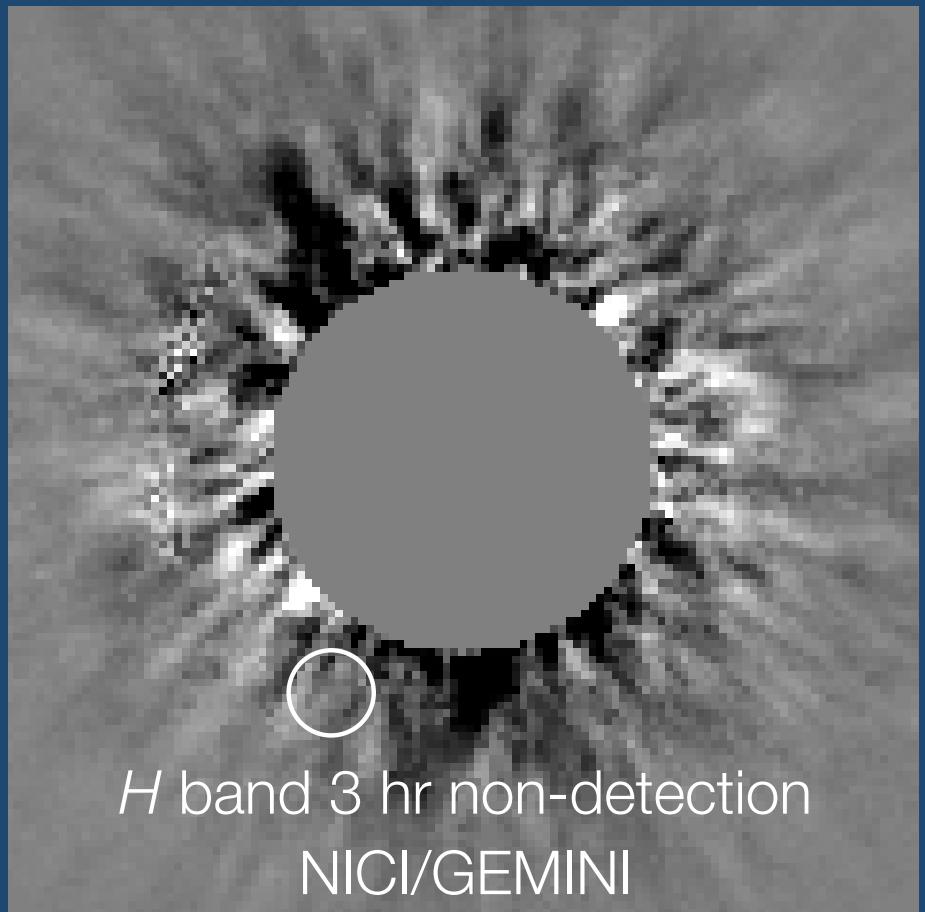
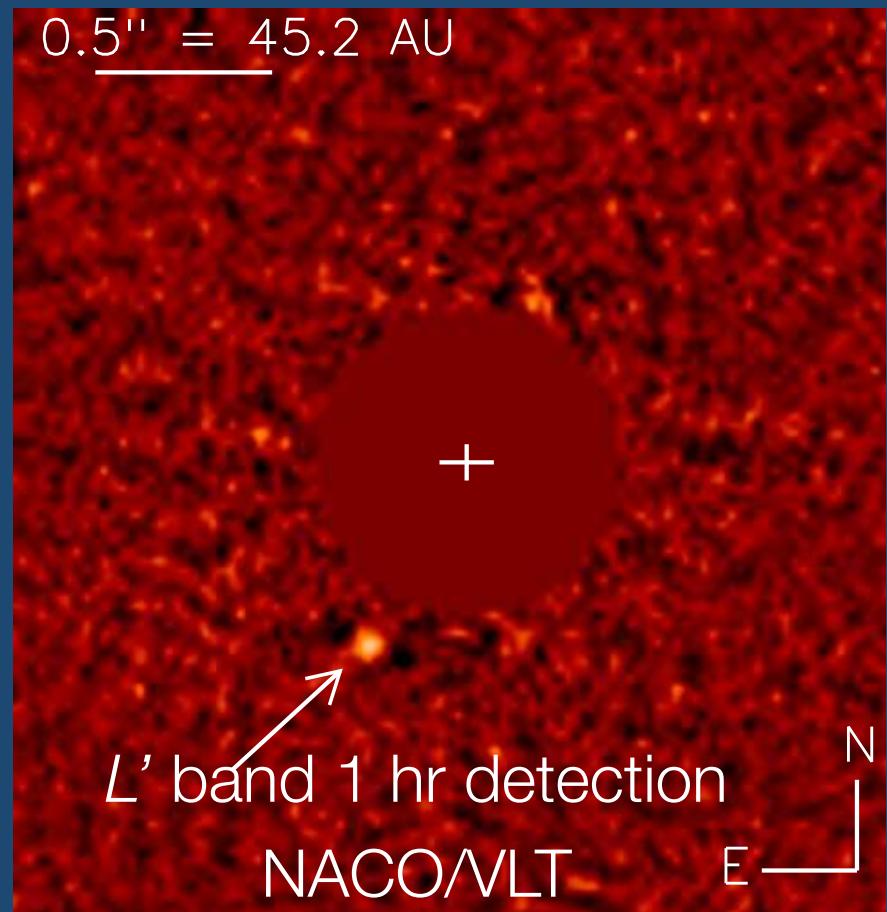
Bailey et al. 2014

HD 106906 L' Mass Limit



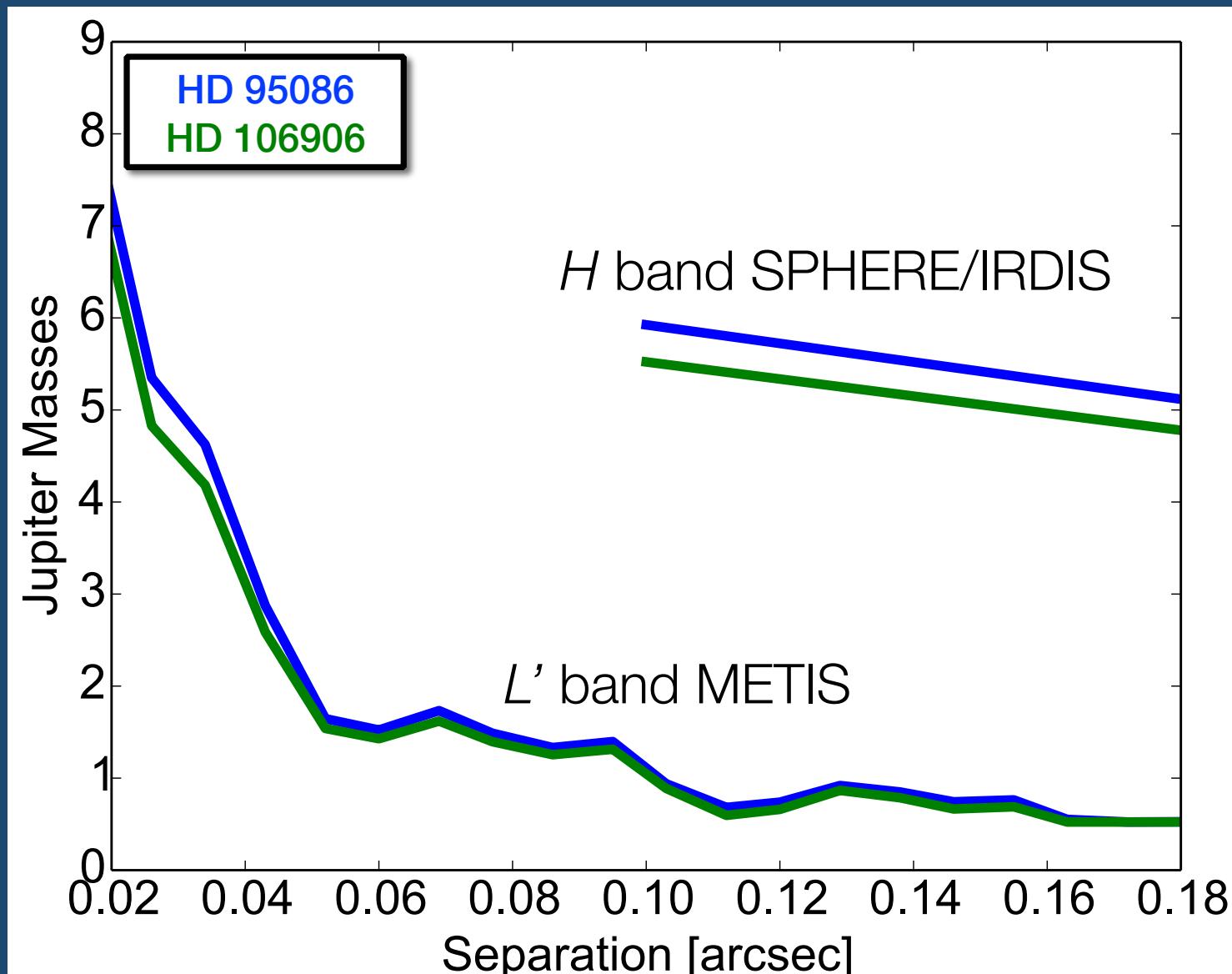
L' band

HD 95086 b

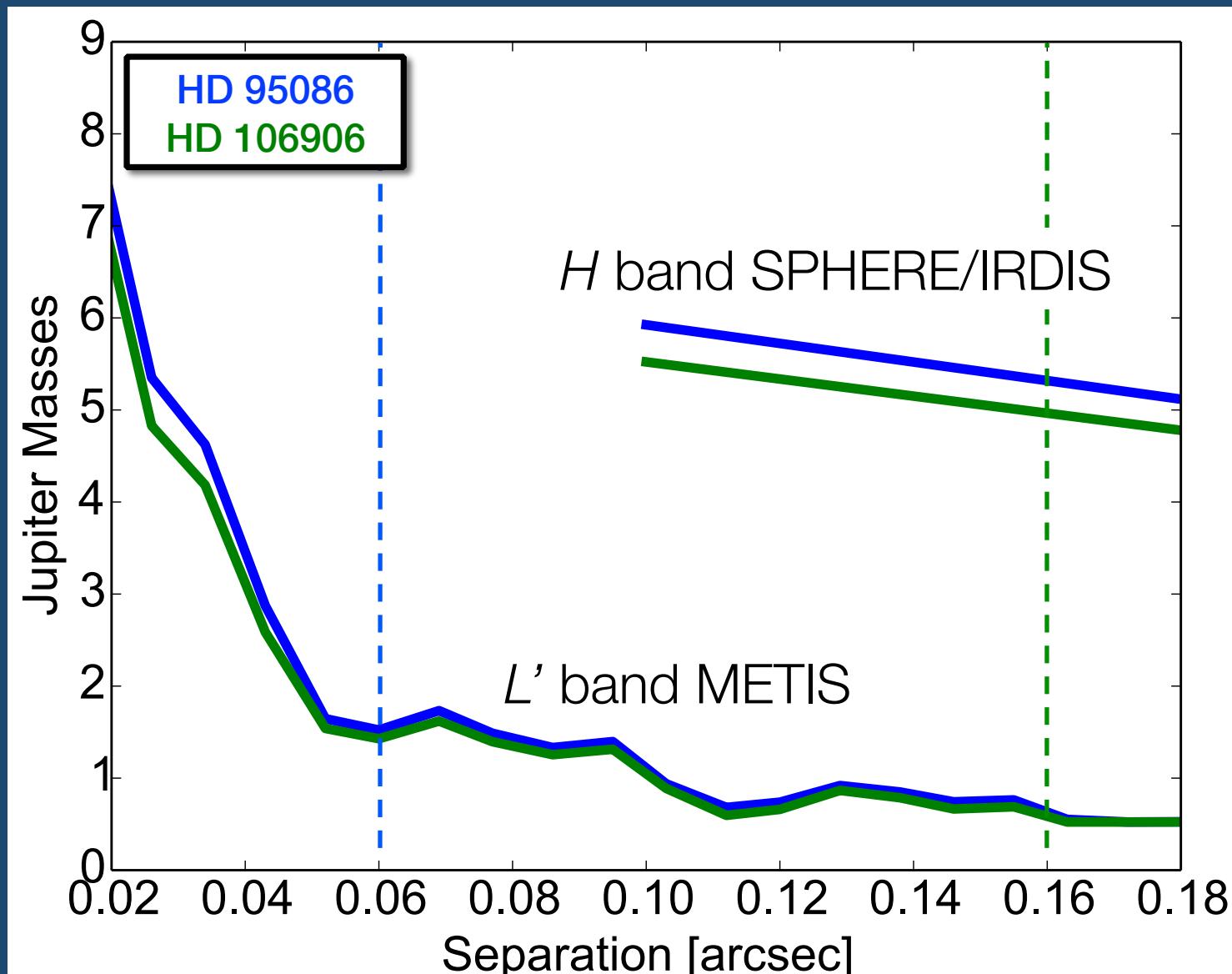


Meshkat et al. 2013

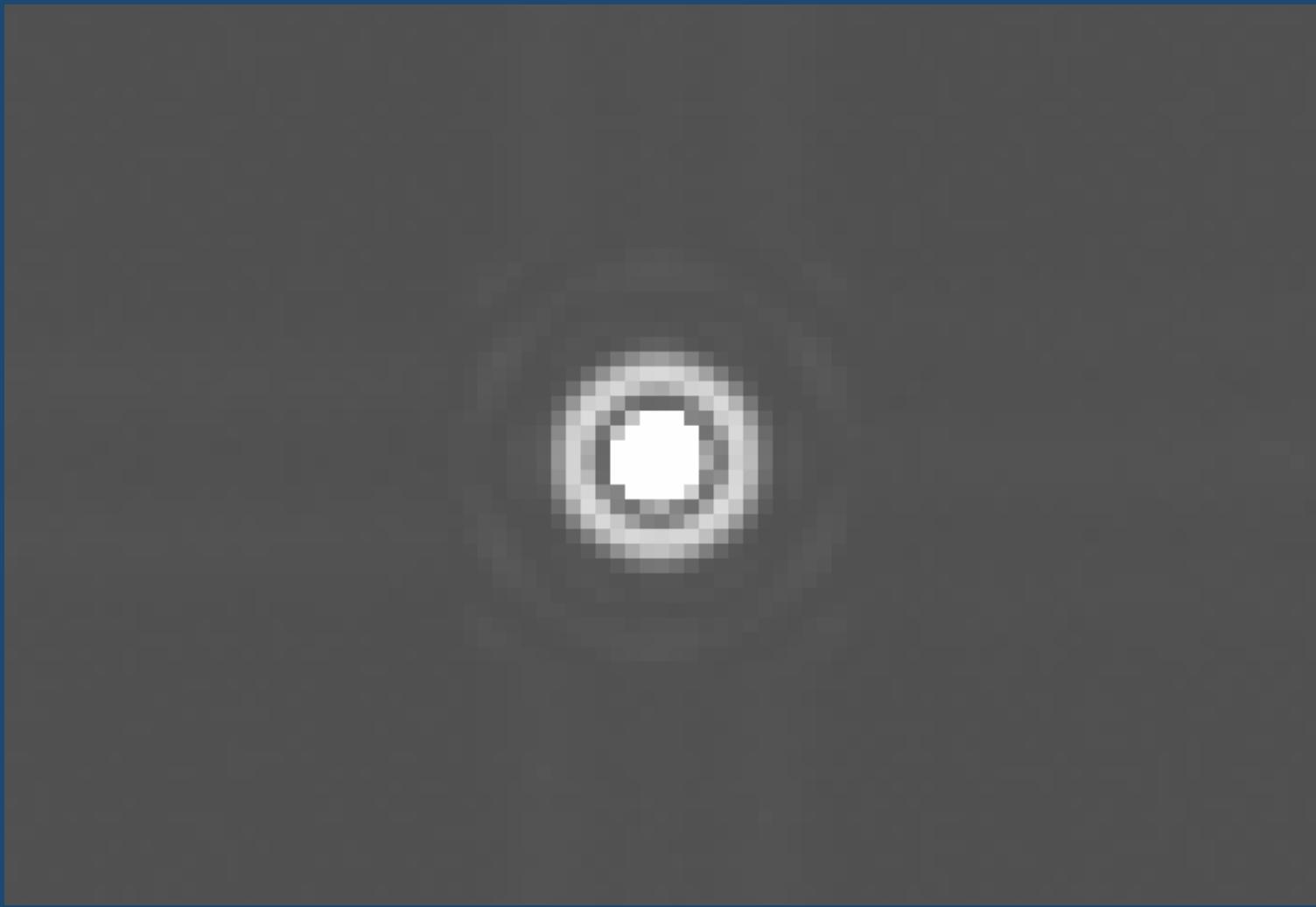
How to detect inner planets?



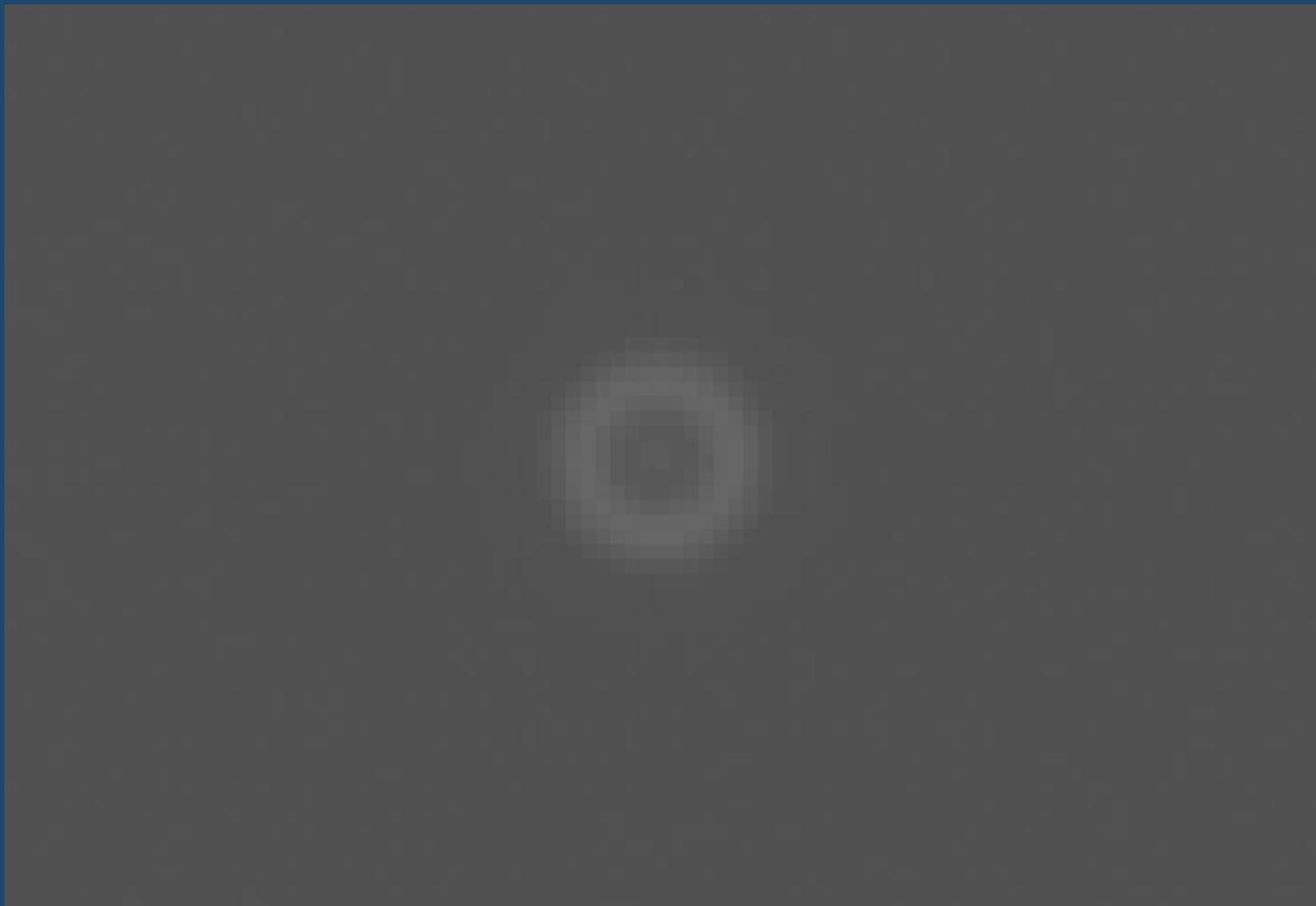
How to detect inner planets?



Simultaneous L' and N - band



Simultaneous L' and N - band



Conclusion

- Hard to find planets – especially if you don't know where to look!
- Holey Disk targets are great candidates for the future E-ELT imagers.
- Chance to resolve the inner disk with METIS.