

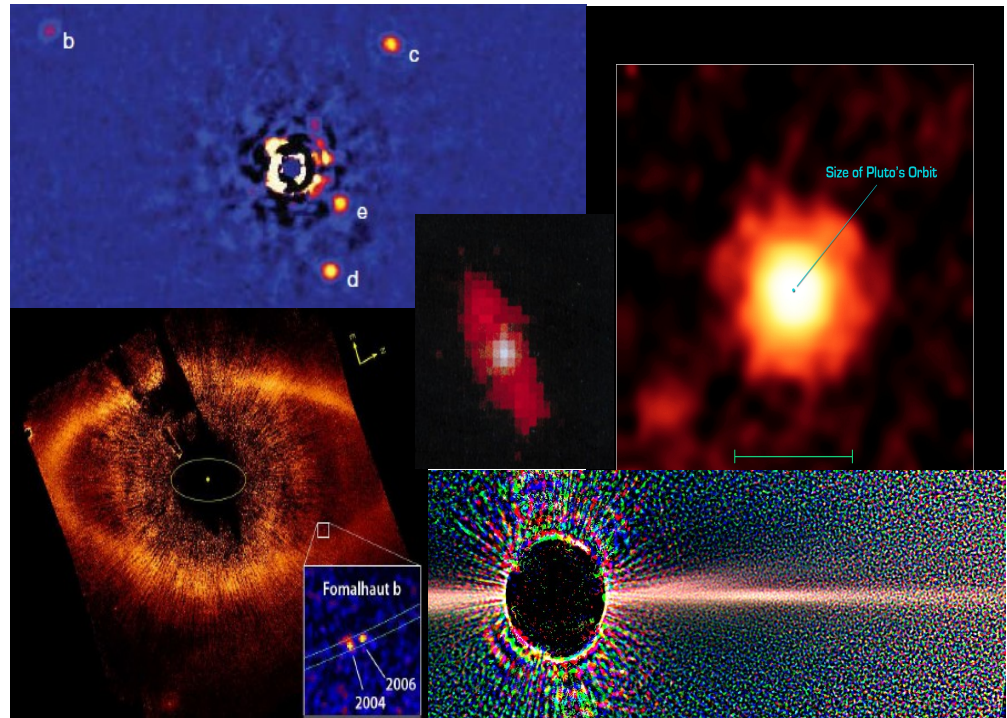


# Interferometric Study to Determine A-star Ages using CHARA (ISAAC)

**Jeremy Jones (GSU)**

with:

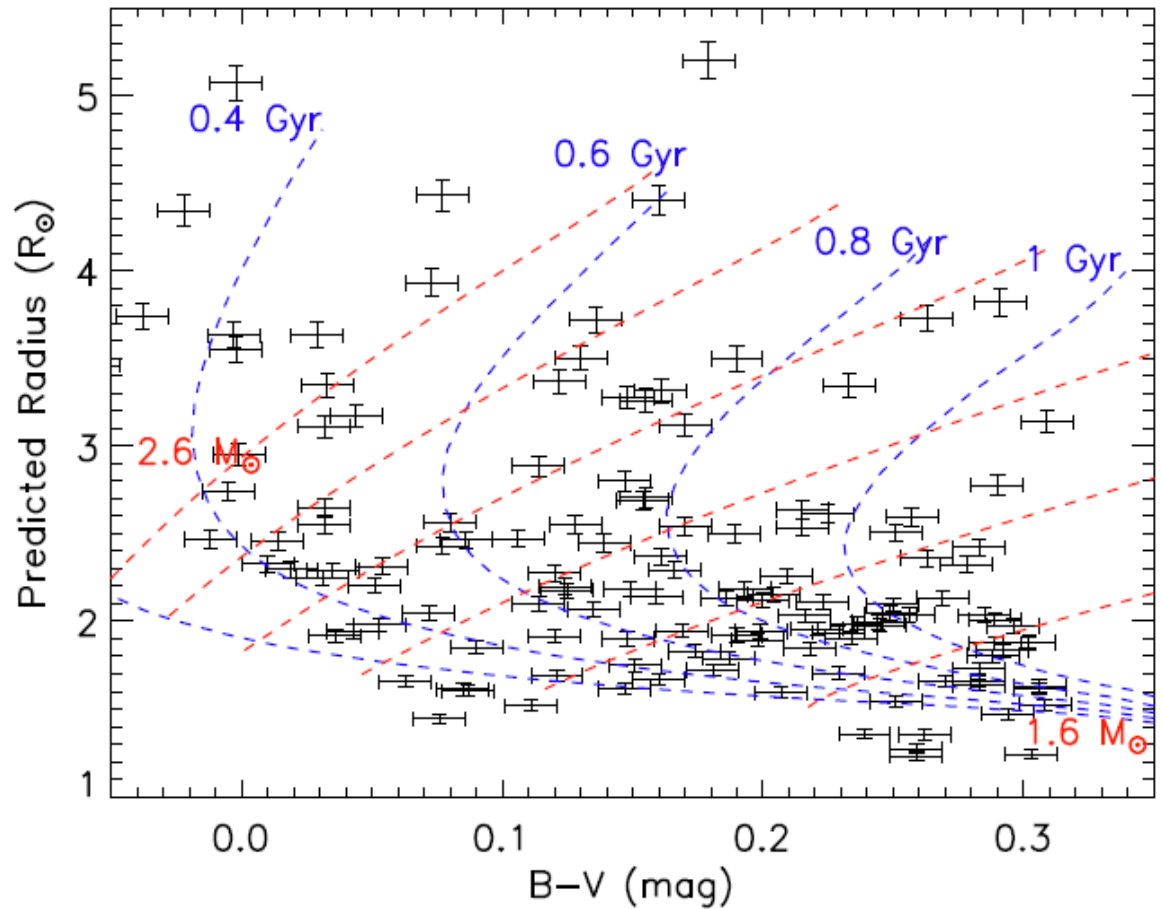
- R. White
- T. Boyajian
- G. Schaefer
- E. Baines
- M. Ireland
- J. Patience



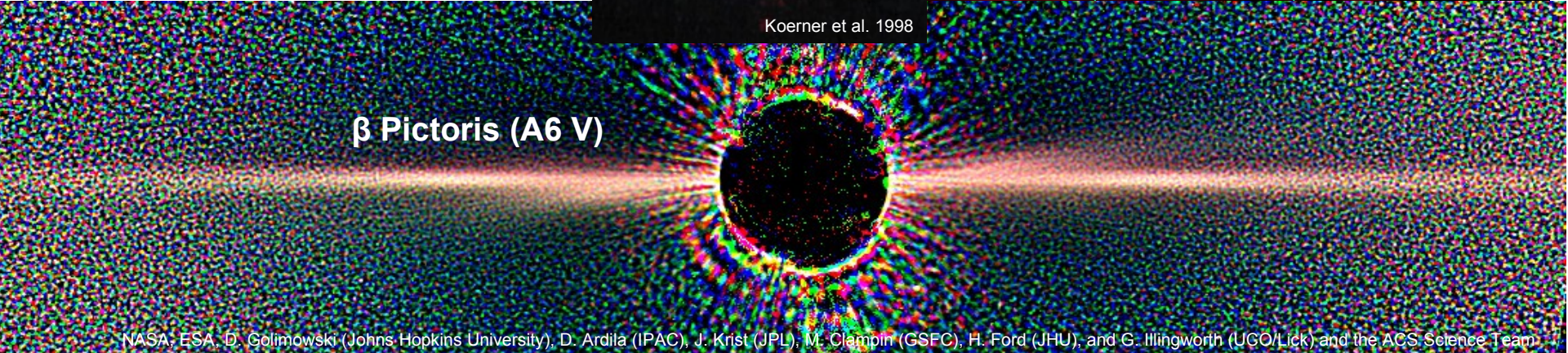
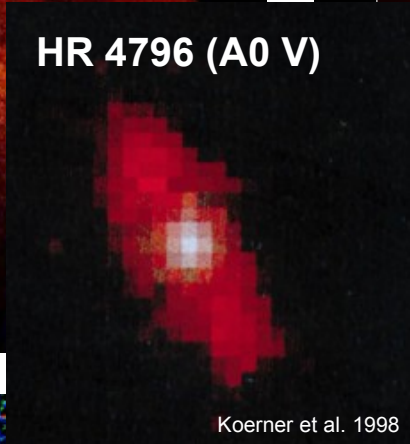
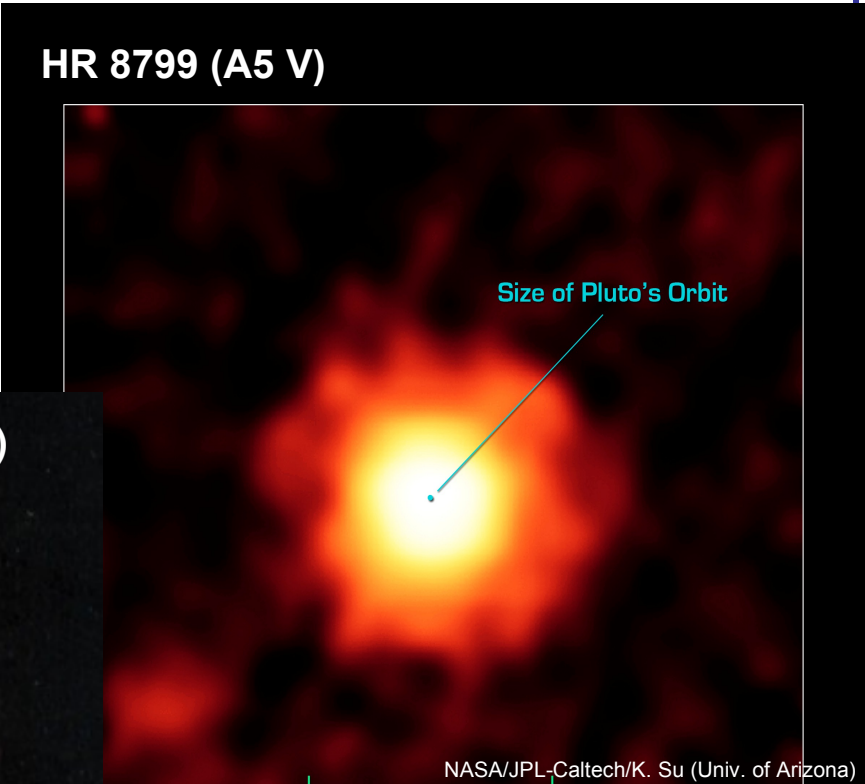
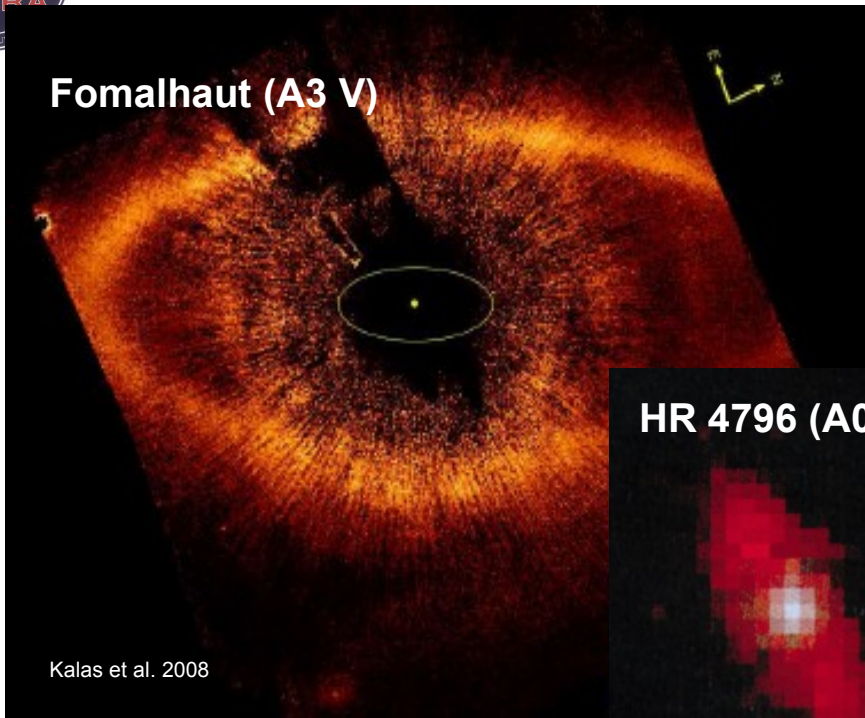


# ISAAC in a Nutshell

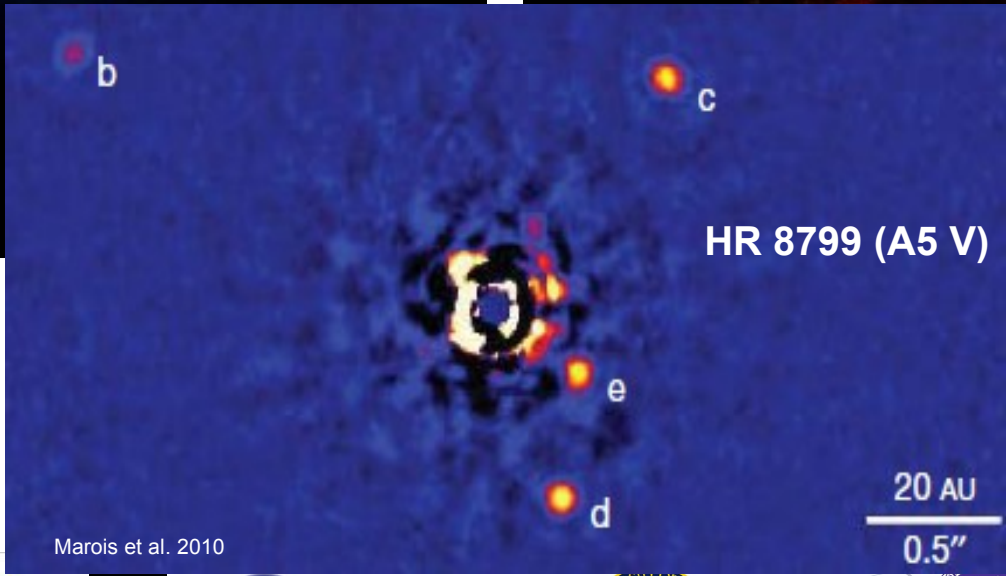
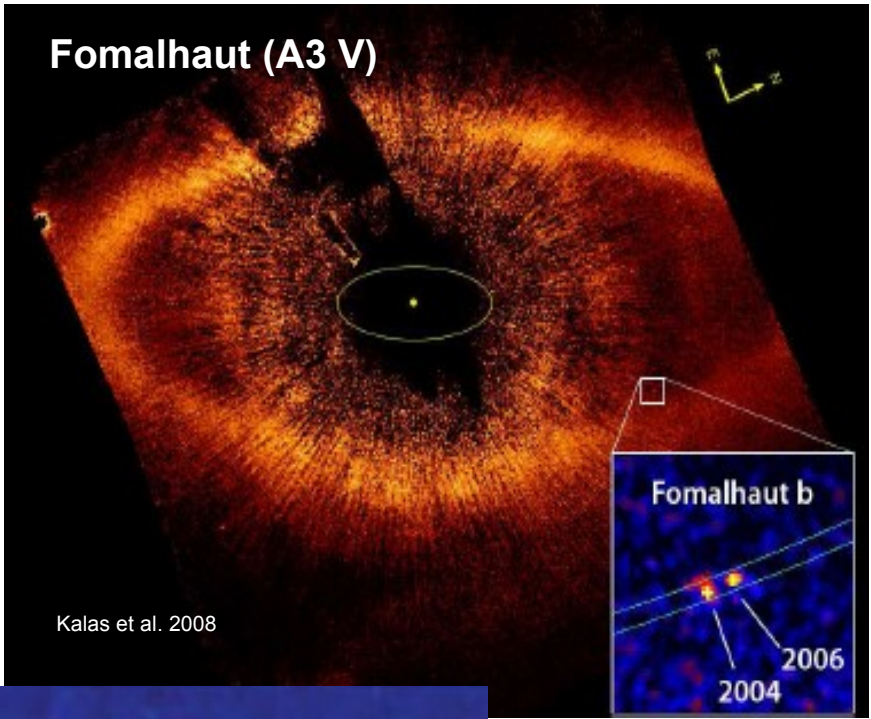
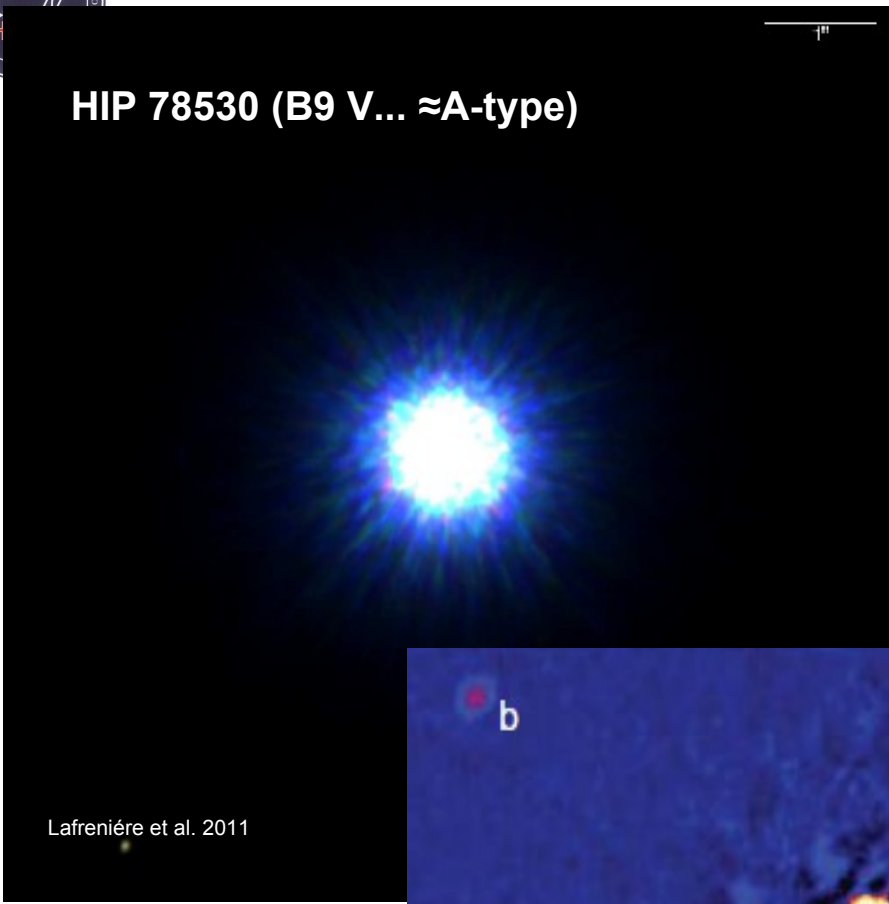
- Measure radii of nearby A-stars
- Determine ages from evolutionary models

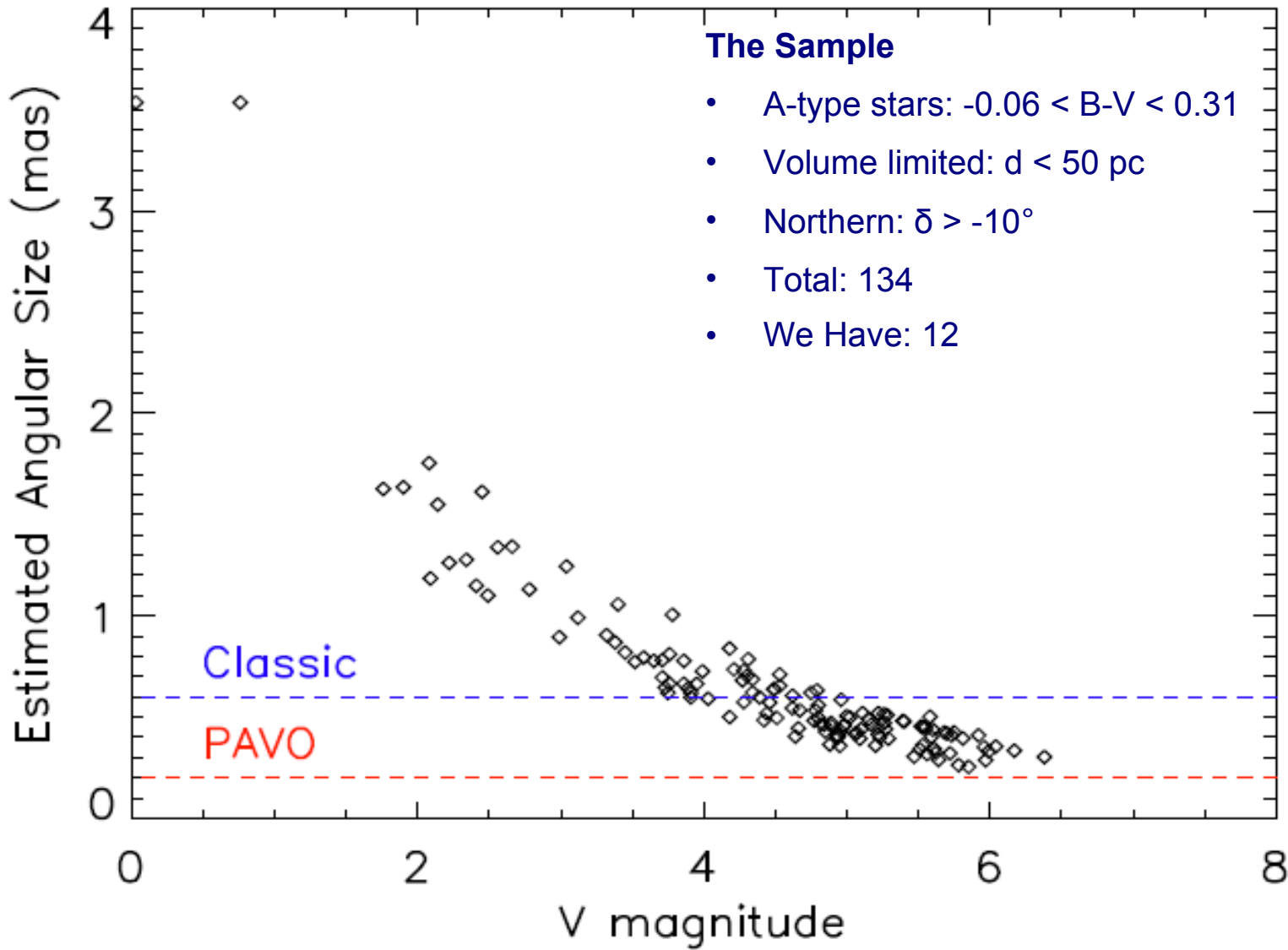


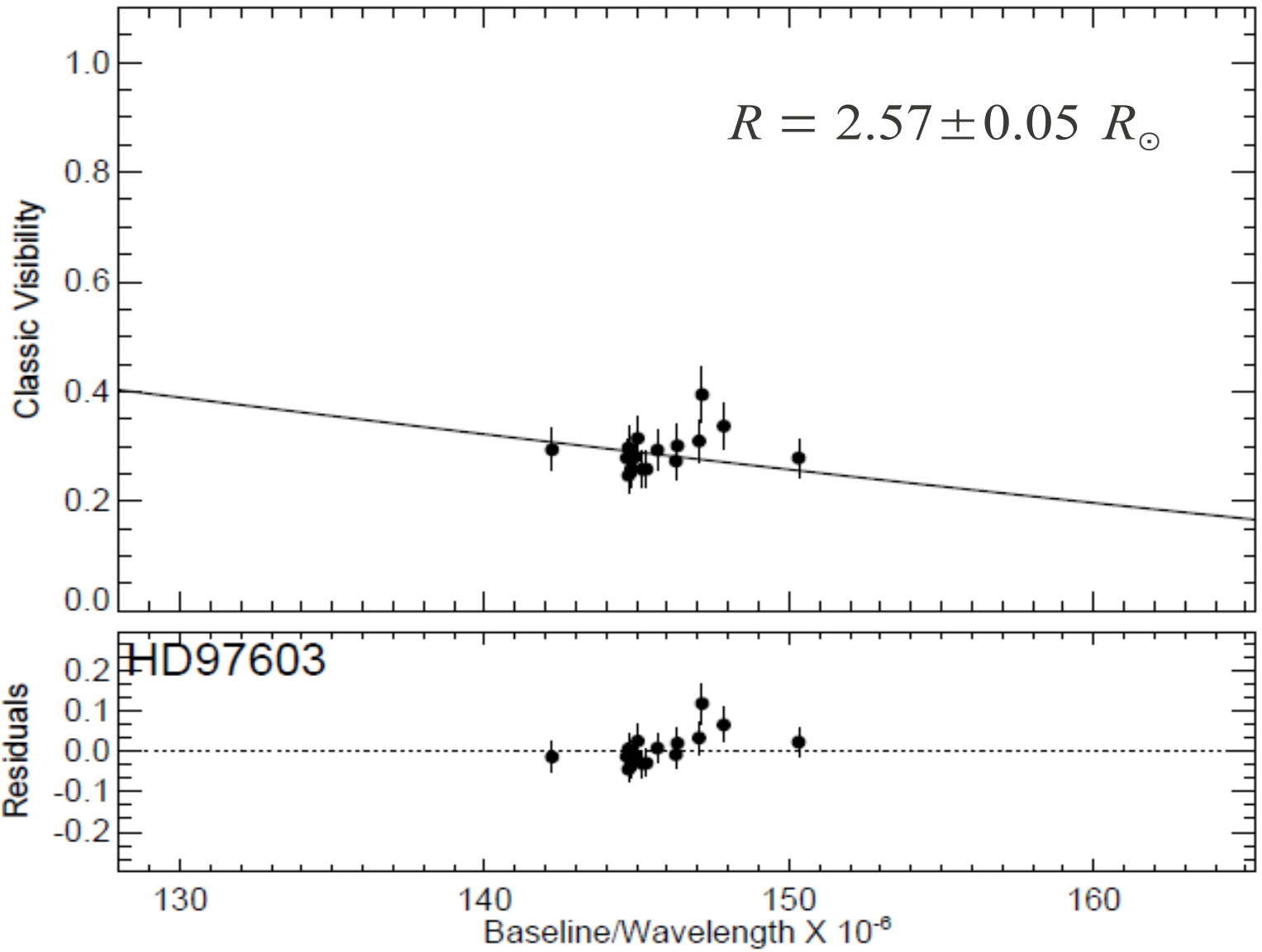






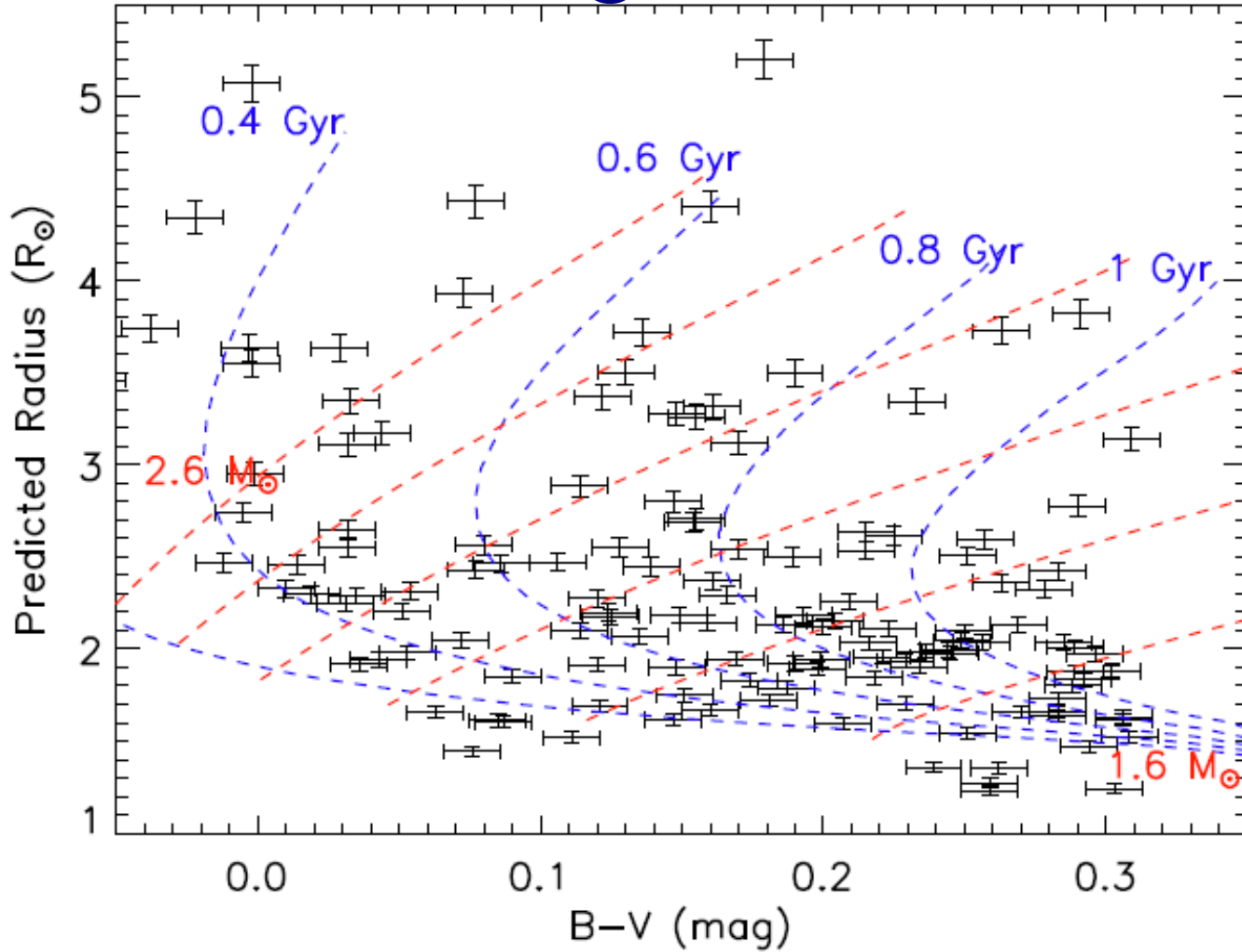








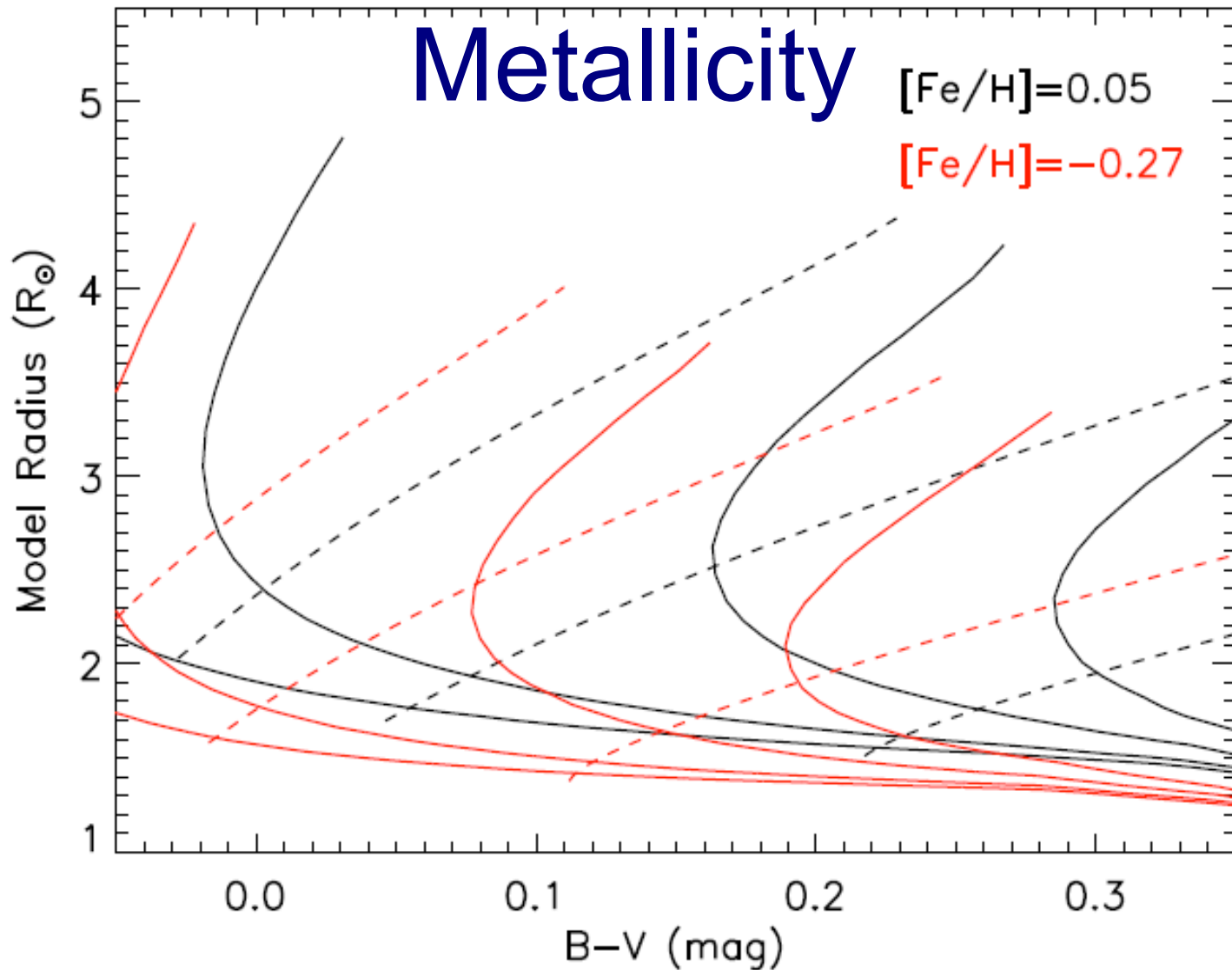
# Ages





# Challenge:

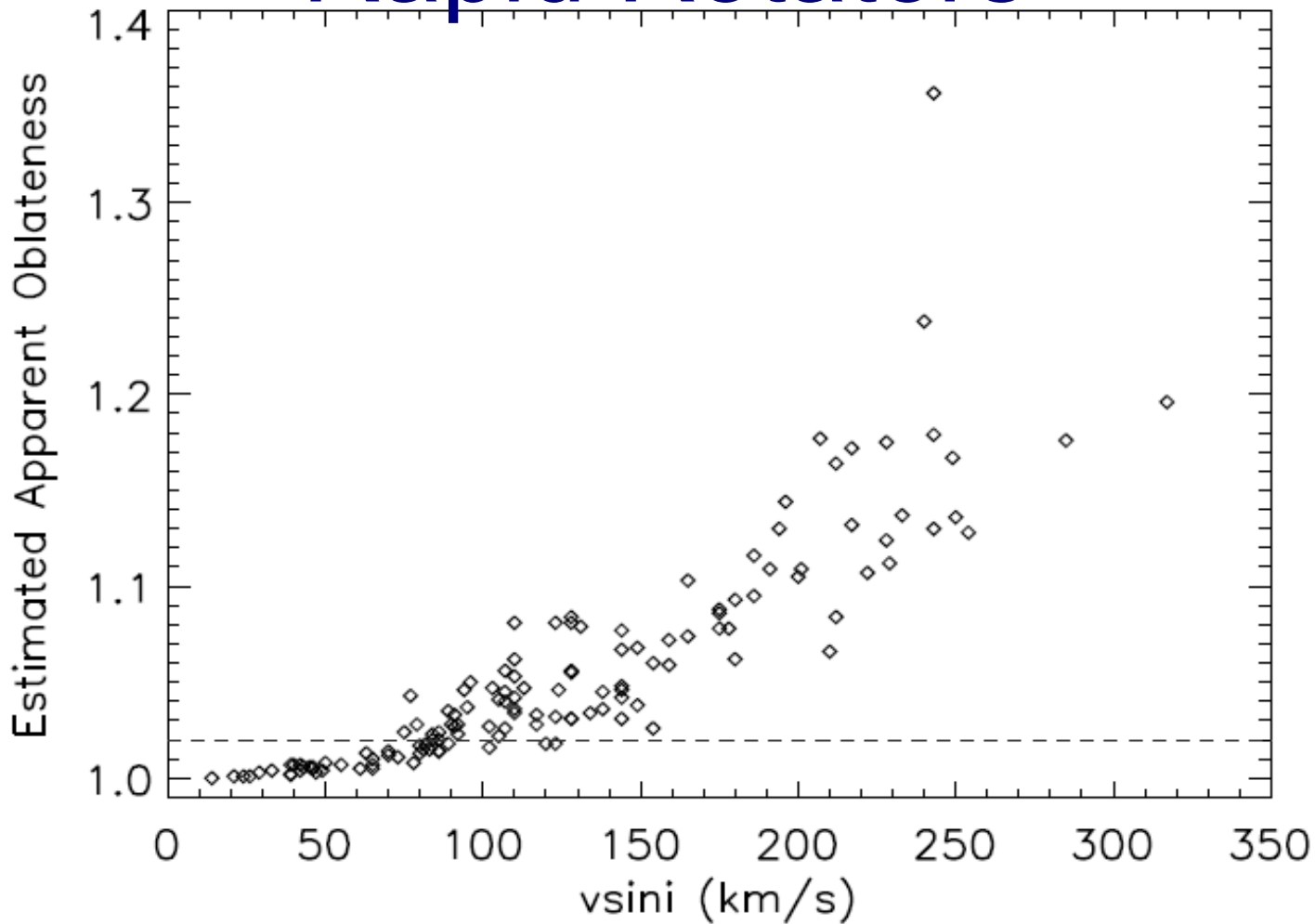
# Metallicity







# Challenge: Rapid Rotators





# Summary

- Measure radii for all nearby A-stars
  - Using Classic/CLIMB for large targets, PAVO for small targets
- Determine ages based on these radii
  - ~5% precision on “simple” systems
- Open to collaboration