

How Old are the A-Stars?

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50 pc A-star Sample

The Sample

- A-type stars: -0.06 < B-V < 0.31
- Volume limited: d < 50 pc
- Northern: $\delta > -10^{\circ}$
- Single
- Total: 129























Motivation Disks and Planets







Motivation Rapid Rotation



Observatoire









Clusters/Moving Groups









UMa Moving Group Correcting for Rotation

- Stars rotating faster than average
 Assume edge-on
- Fit limb-darkened ellipse

























- Stars rotating faster than average
 - Assume edge-on
- Fit limb-darkened ellipse
- Adjust model to fit ellipse

servatoire

-LESIA

• Find R, L, T of non-rotating equivalent star















PORRS

<u>Vega</u>

Pole-On Rapidly Rotating Star

Proposal

HDs 141795, 165777 1st lobe: Classic 2nd lobe: PAVO















к Andromeda









50 pc Update

- 129 Total Stars
 - 47 oblate
- 25 Completed (19%)
 - Classic/CLIMB: 8 (6 oblate)
 - PAVO: 5
 - Classic/CLIMB + PAVO: 3
 - Previously Published: 9





















Future Plans

- Cluster/Moving Group Studies
- Rapid Rotation Corrections
- Slow Rotators or PORRS?
- к Andromeda
- 25-pc completion



















Observatoire





Results

- 19% 50-pc sample complete
- Rapid Rotators in UMa Corrected
- Classic and PAVO agree!























Questions?

or Lunch?









