Milliarcsecond Astronomy with the CHARA Array Community Workshop Caltech/IPAC, Pasadena, California Sunday, October 8, 2017 Principles of stellar interferometry Overview of the CHARA Array and other interferometers Science review of recent results from interferometry Observing strategies and planning How to apply for time at the CHARA Array Overview of modeling and imaging software **Information and registration:** http://www.chara.gsu.edu/workshops/caltech Bet Lyr Images of Rapid Rotators with MIRC Roche-lobe filling Accretion disk secondary Rasalhague Alderamin Bet Cas Mysterious eclipse of eps Aur (3 frames) 1.5 2008, Pre-Eclipse UT2009Nov03 UT2009Dec03 Expanding Fireball of Nova Del 2013 1.0 0.5 0.0 2013Aug17 Aug21 1.51.00.50.0-0.51.01.51.51.00.50.0-0.51.01.51.51.00.50.0-0.51.01.5 Milliarcseconds Milliarcseconds Milliarcseconds

CHARA Community Workshops

- Already held:
 - Carnegie 2017 Mar 15
 - University of Toledo 2017 Sep 8
 - 22 people, 7 institutions
- Upcoming:
 - Caltech/IPAC 2017 Oct 8
 - AAS 2018 Jan 7
 - SPIE (Jun), Cool Stars (Aug)

Community Workshop Topics

Overview of the CHARA Array

Principles of Interferometry and Science Review

Applying for Time

Observing Strategies and Planning Software

Data Format and Modeling/Imaging Software

Selected science topics / interferometers

CHARA Website

- Adding content on basics of interferometry, planning observations
- Expand sections under Science Highlights
- Active webpage
- Press kit

Exhibit Hall

- Update display panels with recent results
- Interactive displays
- Create fringes with Michelson beam using laser

Public Outreach

- "100 years of stellar sizes" 2019
- Coordinate with MWI outreach efforts
- Carnegie open house
- LAAS
- Local schools
- Public talk series