



DEPARTMENT OF ASTRONOMY AND STEWARD OBSERVATORY

What the LBTO means to the University of Arizona

- World class, unique, science producing facility
- Enable Follow-up of/Complementary work with JWST
- Pathfinder for Giant Magellan Telescope



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Science Area Priorities for This Decade

(from the Decadal Survey, NWNH)

- **Cosmic Dawn: Searching for the First Stars, Galaxies, and Black Holes**
- **New Worlds: Seeking Nearby, Habitable Planets**



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Unique Spatial Resolution and Collecting Area

- Potentially > 10 times spatial resolution of HST

LUCIs+AO cameras + ARGOS

LMIRCAM + AO

LBTI (and LN)

New Instrument to take full advantage of AO?

- Binocular Mode, Realize benefits of the Largest Collecting Area

LUC1 + LUC2

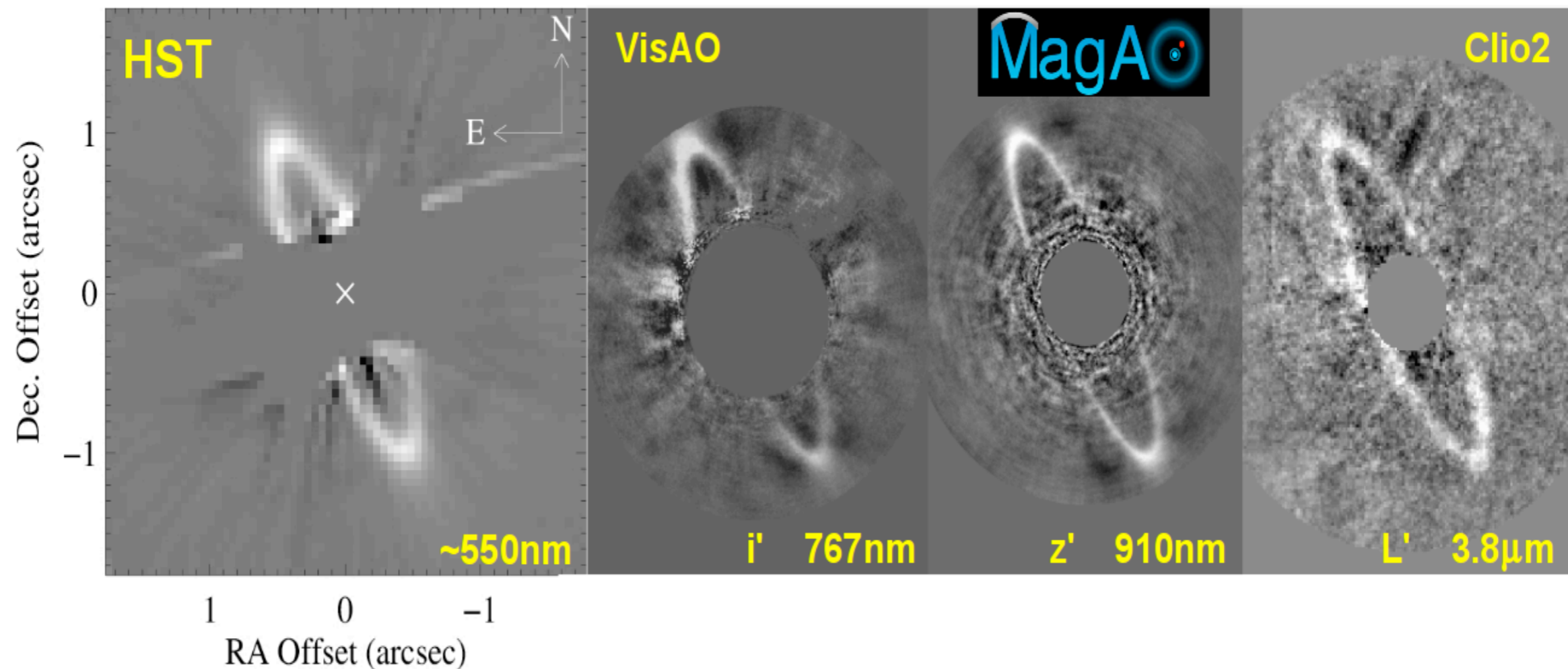
MODS1 + MOD2

LUCI + MODS ?

PEPSI

VisAO Can Also Image Debris Disks Rings Around Stars:

Better resolution than HST



Commissioning images of the HR 4796 debris disk with MagAO and its visible (VisAO) and infrared (Clio2) cameras. Credit T. Rodigas, J. Males, L. Close, K. Morzinski, P. Hinz (UA), A. Weinberger (Carnegie, DTM) and the MagAO team (Rodigas et al. in prep).



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We look forward to continuing to work with the LBTO and partner efforts to fully commission:

- LBTI
- LUCIs + AO Cameras
- ARGOS
- Full Binocular Mode(s)

LUC1 + LUC2

MODS1 + MODS2

LUCI + MODS ?

PEPSI



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Toward Full Queue?

- UofA has been working with modest queue observing
LBTI/LMIRCAM
mini-queue for UA programs
- Open to investigating broader queue observing
opportunities