

Eyepiece observing in Arizona

Ya-Lin Wu

GSPS meeting
Nov 2, 2018

Eyepiece observing at the 61" telescope

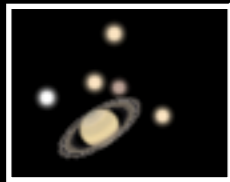


You can see objects as faint as magnitude 17 !

Solar System moons

Iapetus •

Titan •



• Hyperion

• Rhea

Tethys

• Mimas

Dione



• Enceladus

• Umbriel



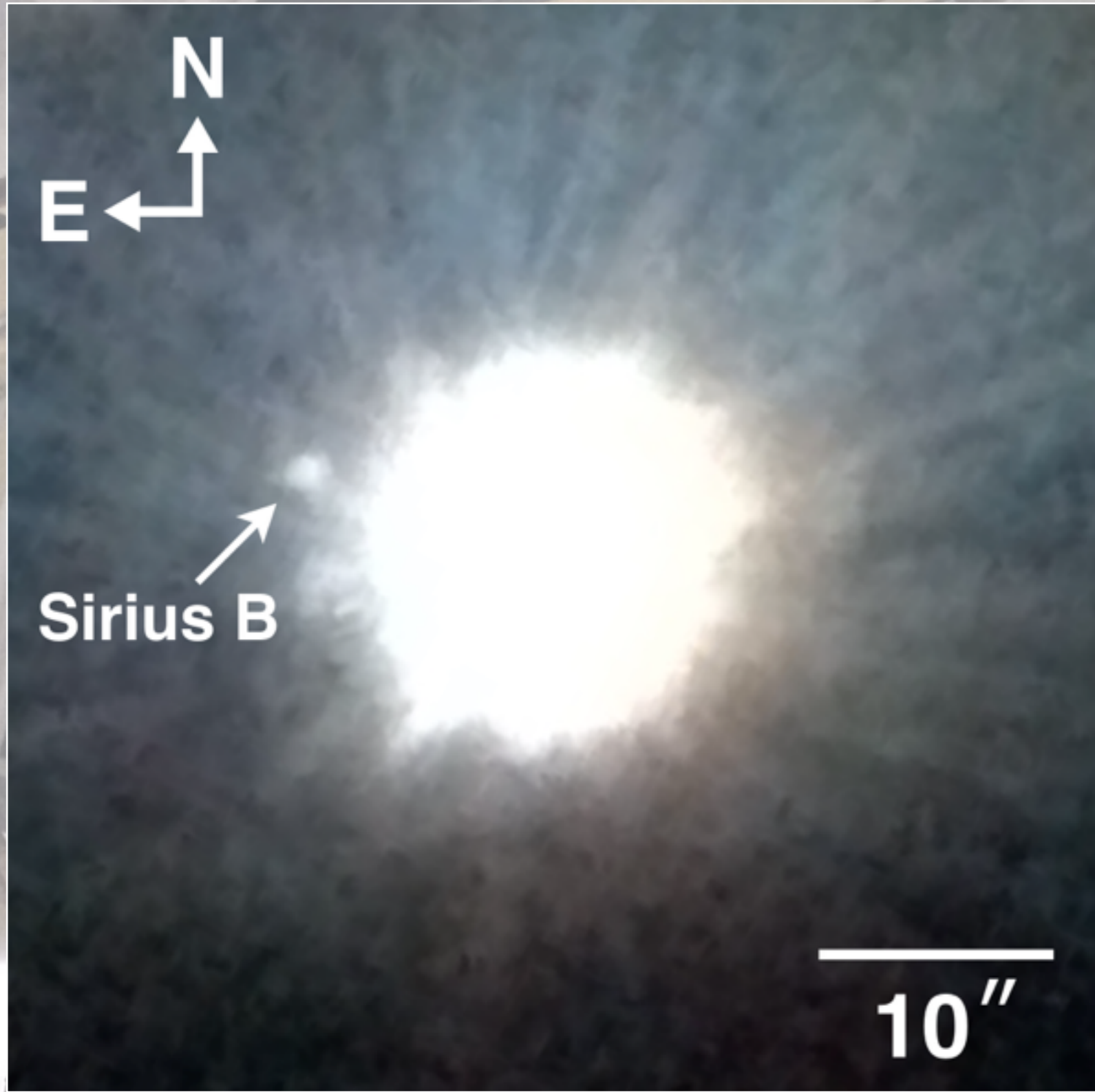
• Titania

• Ariel

• Oberon

Stellarium

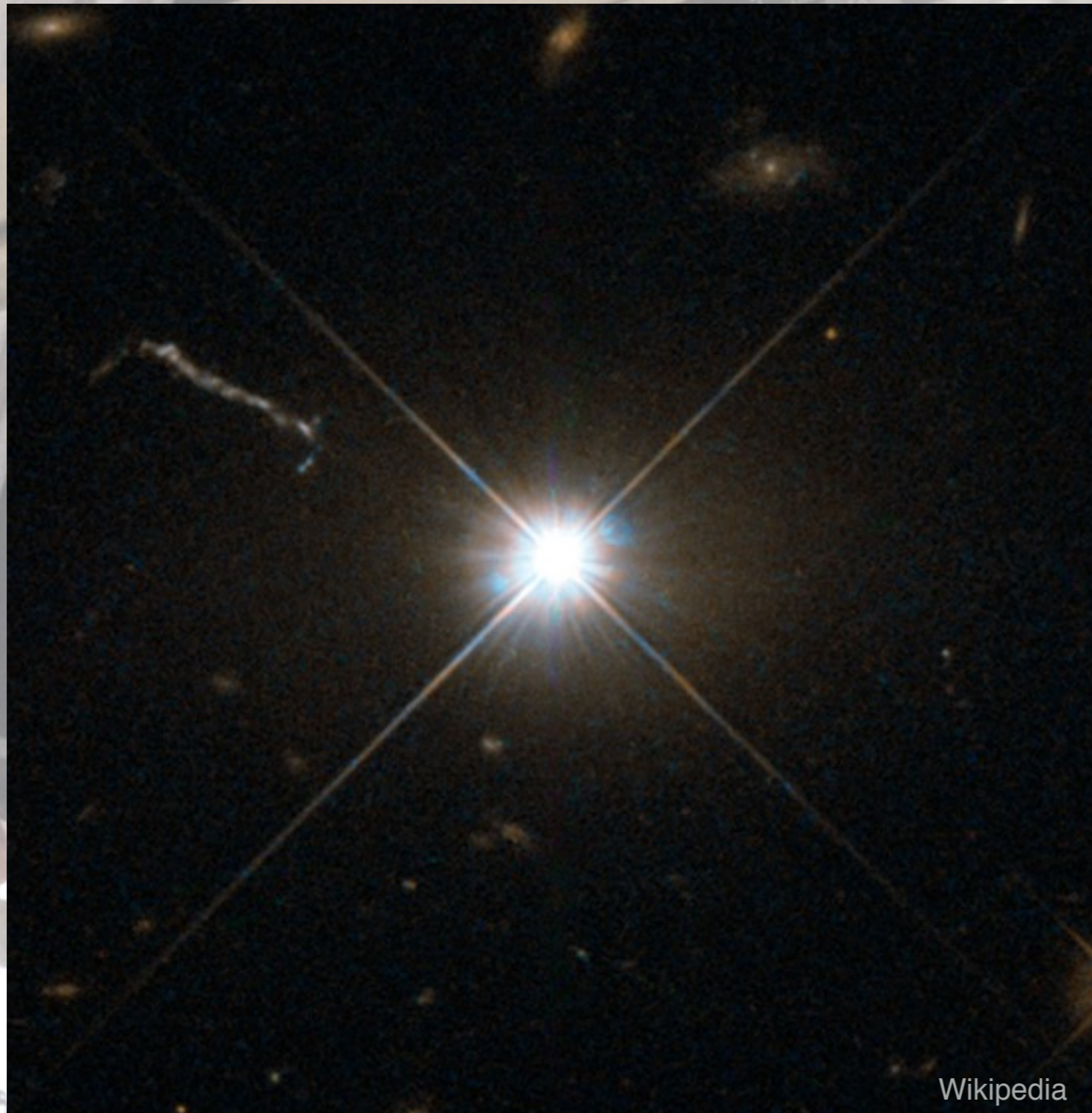




White dwarf



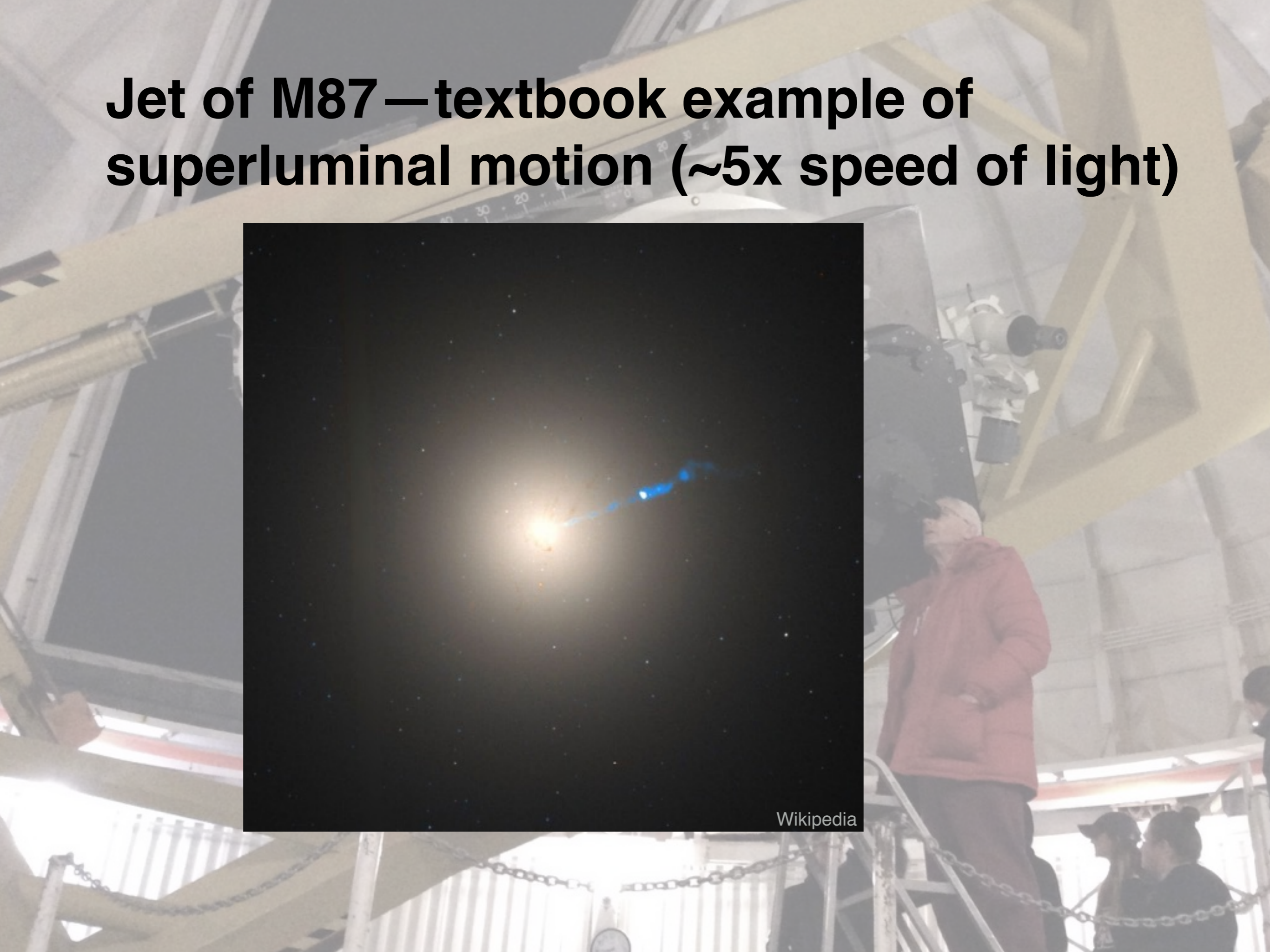
3C 273—the brightest quasar; $z \sim 0.16$



Wikipedia



Jet of M87 — textbook example of superluminal motion ($\sim 5x$ speed of light)



**IC 1101 —one of the largest known galaxies
(~4x larger than M87; ~40x larger than
Milky Way in radius)**



Galaxy mergers: Stephan's Quintet



and my favorite: gravitational lensing!

$z=1.4$

6"

M. Langer

Einstein Cross

2"

J. Rhoads

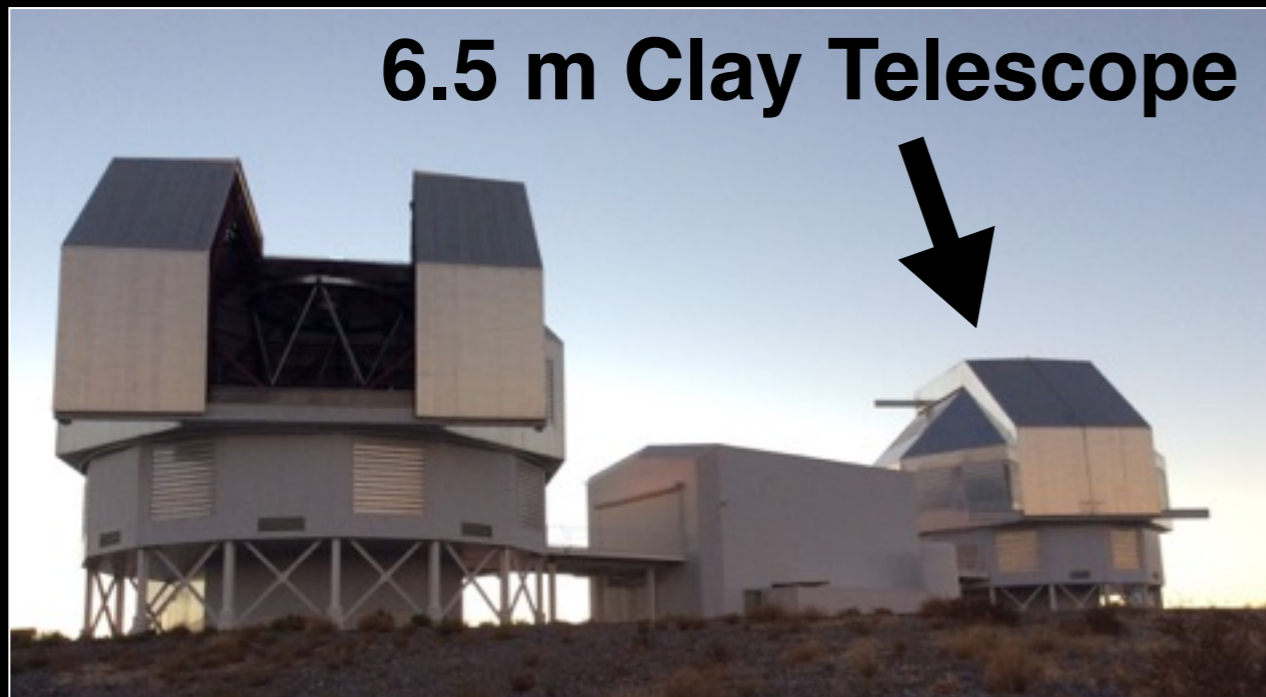
$z=1.7$

Twin Quasar

Eduard von Bergen

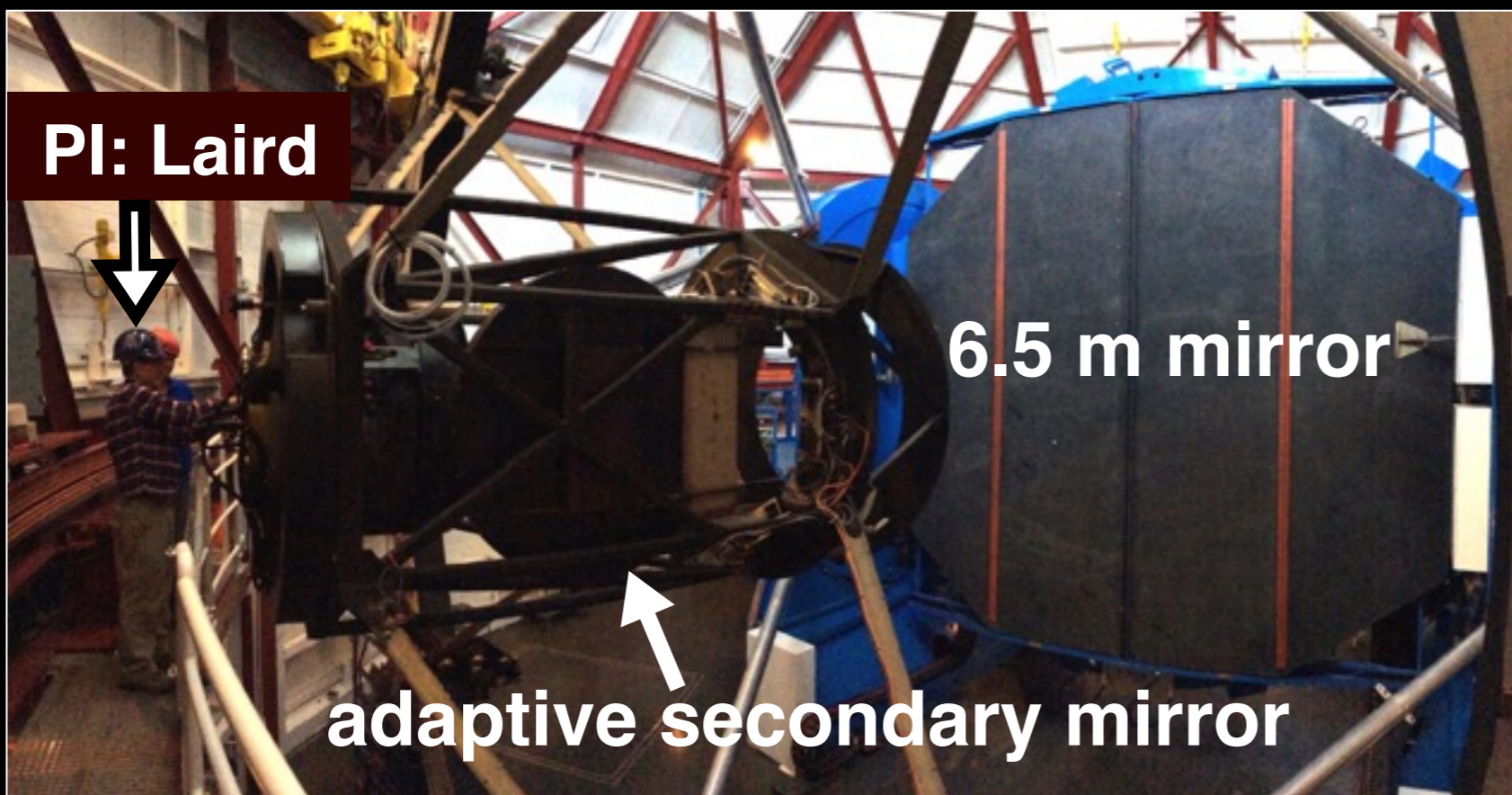
The ultimate eyepiece observing

6.5 m Clay Telescope



Natural guide star AO system on the 6.5 m Clay Telescope

PI: Laird



>500 actuators working at 2 kHz and >300 modes



APOD May 7, 2015

“At the Limit of Diffraction”

