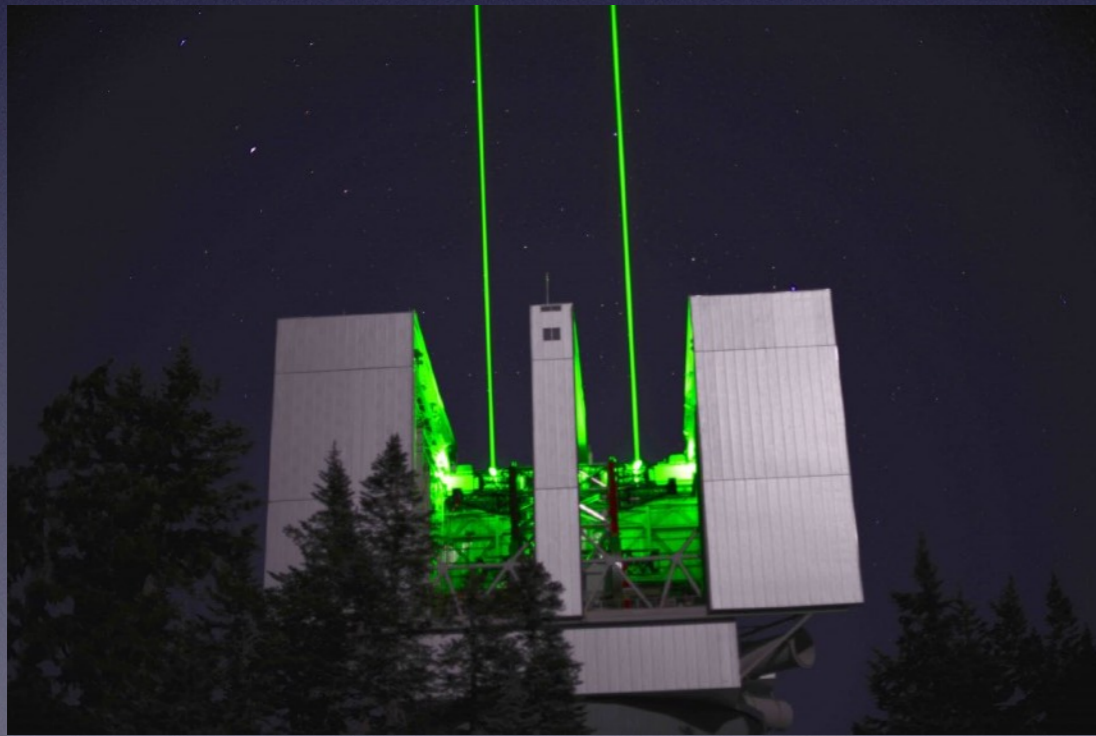
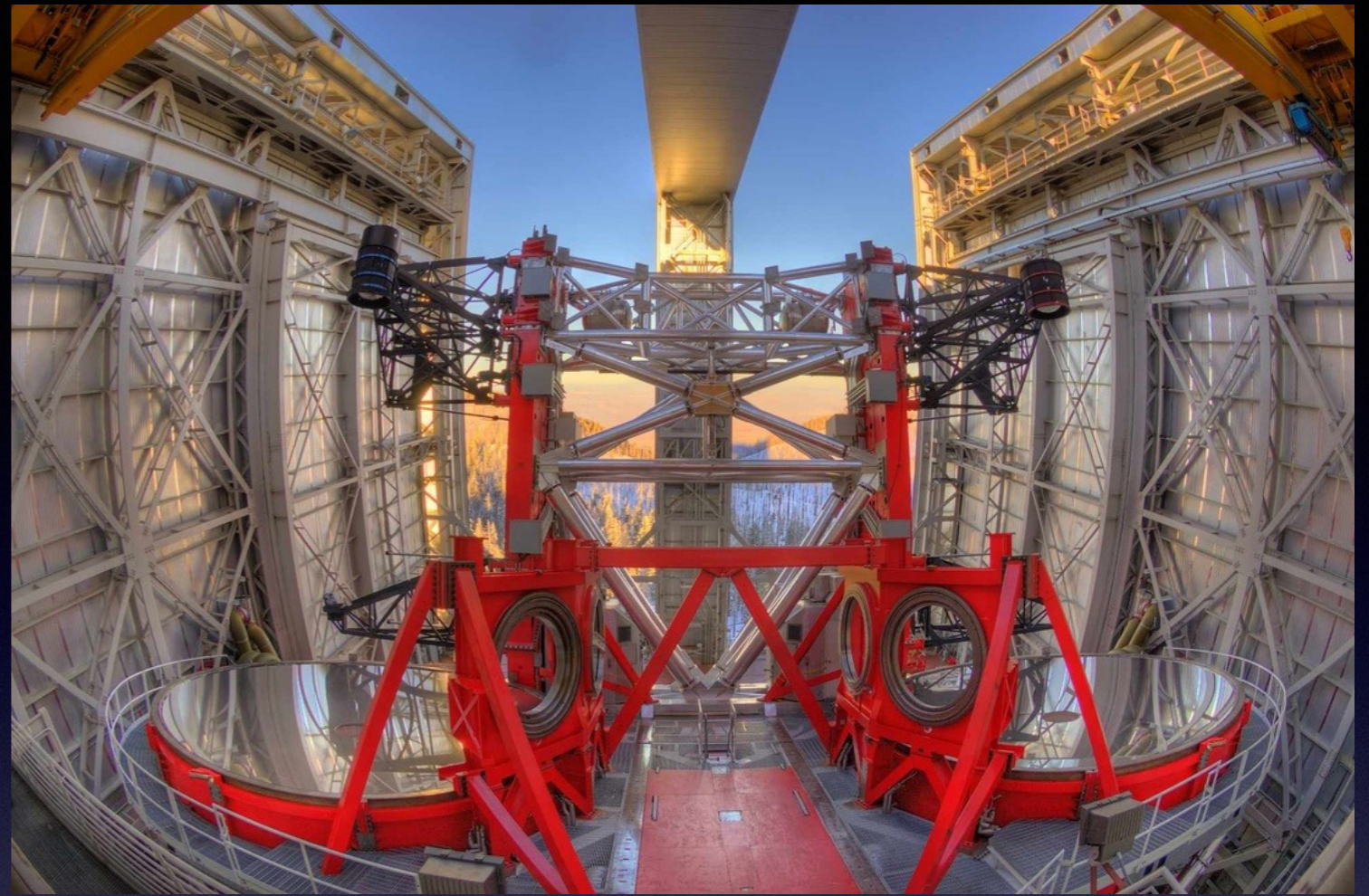
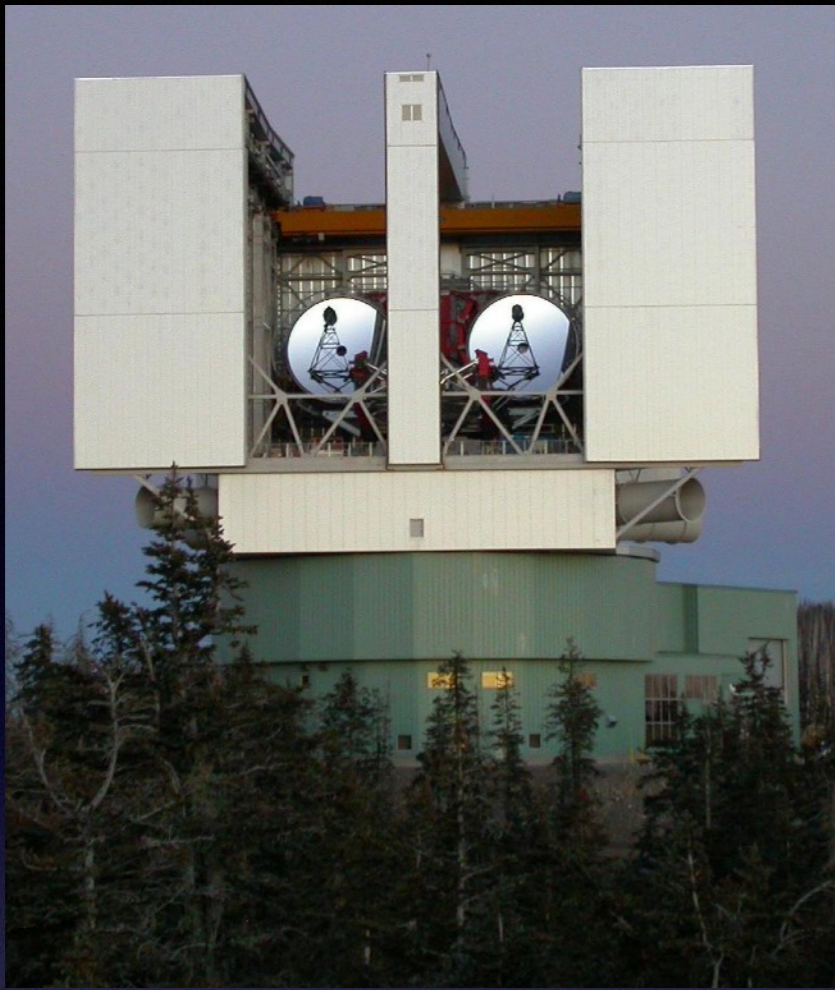


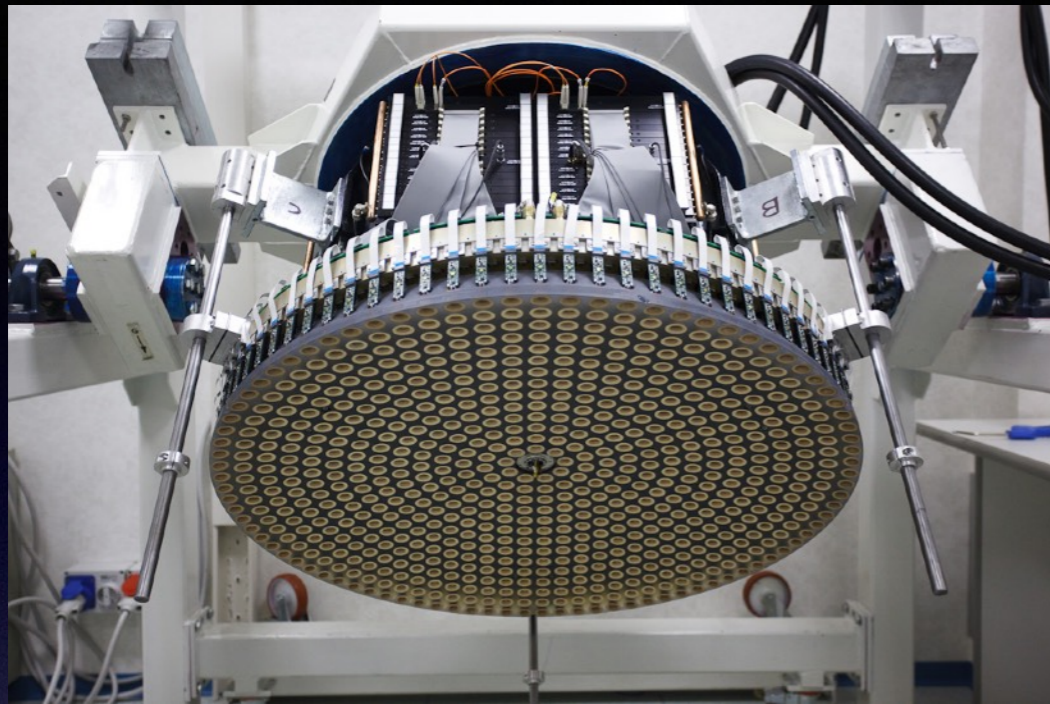
Large Binocular Telescope (LBT)

Eiichi Egami
Arizona LBT Partner Coordinator

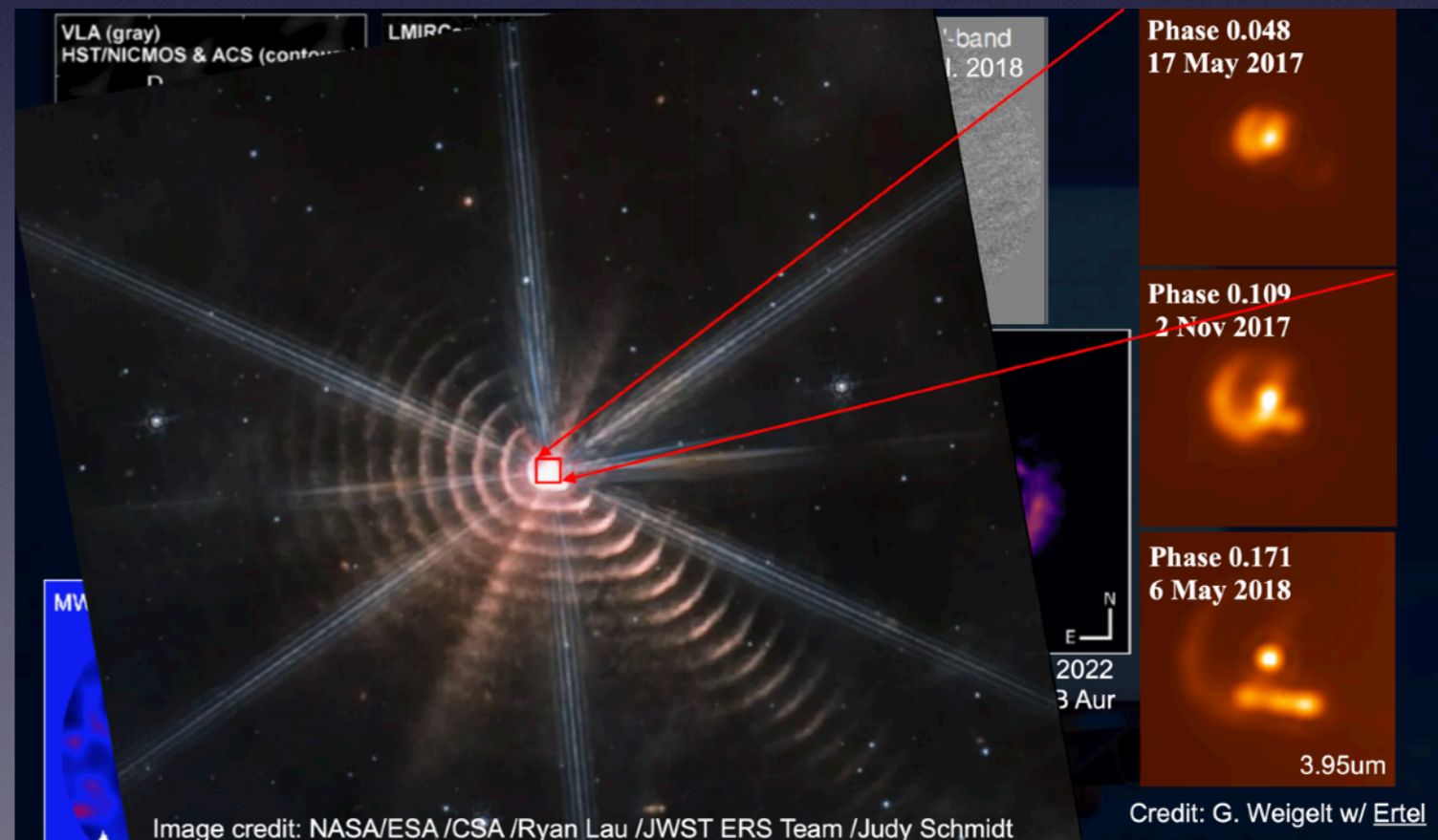
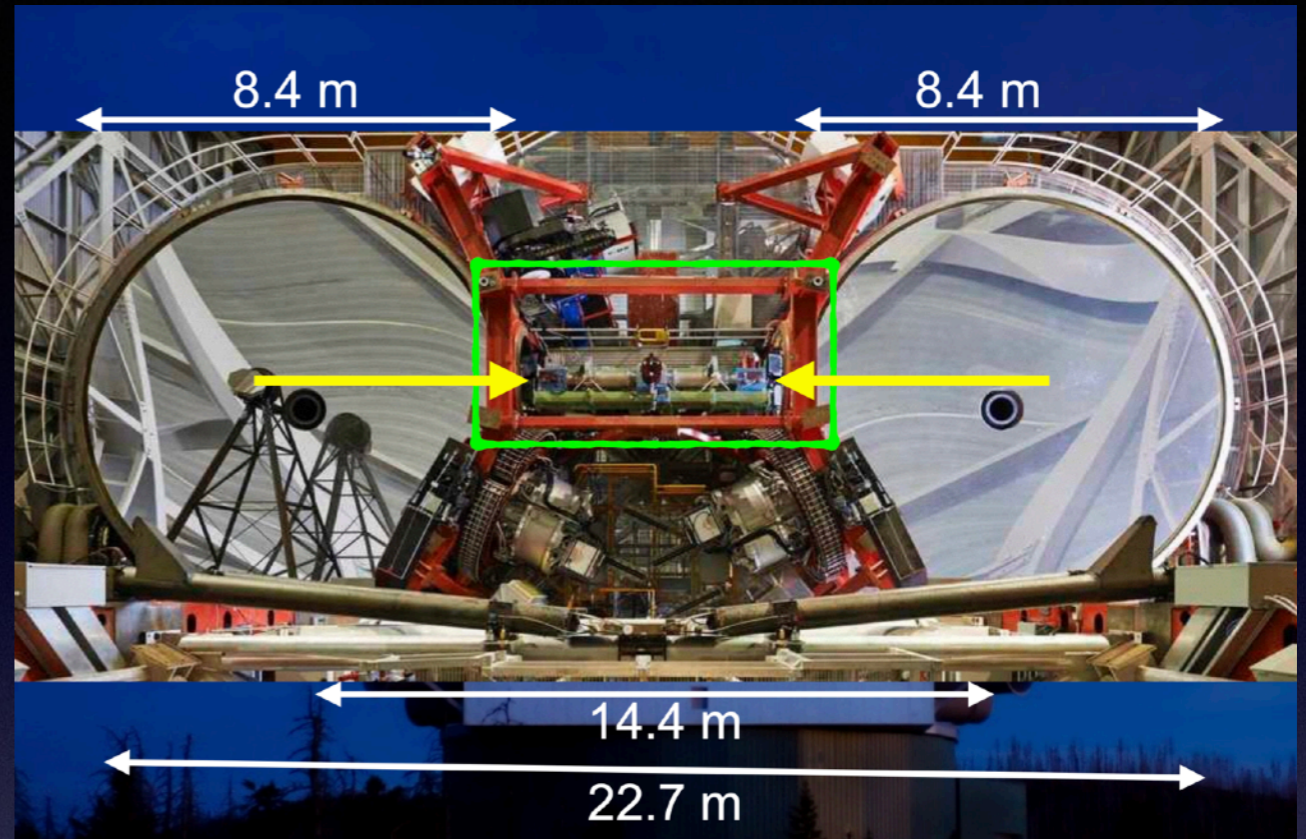


AZ gets ~30 nights/semester

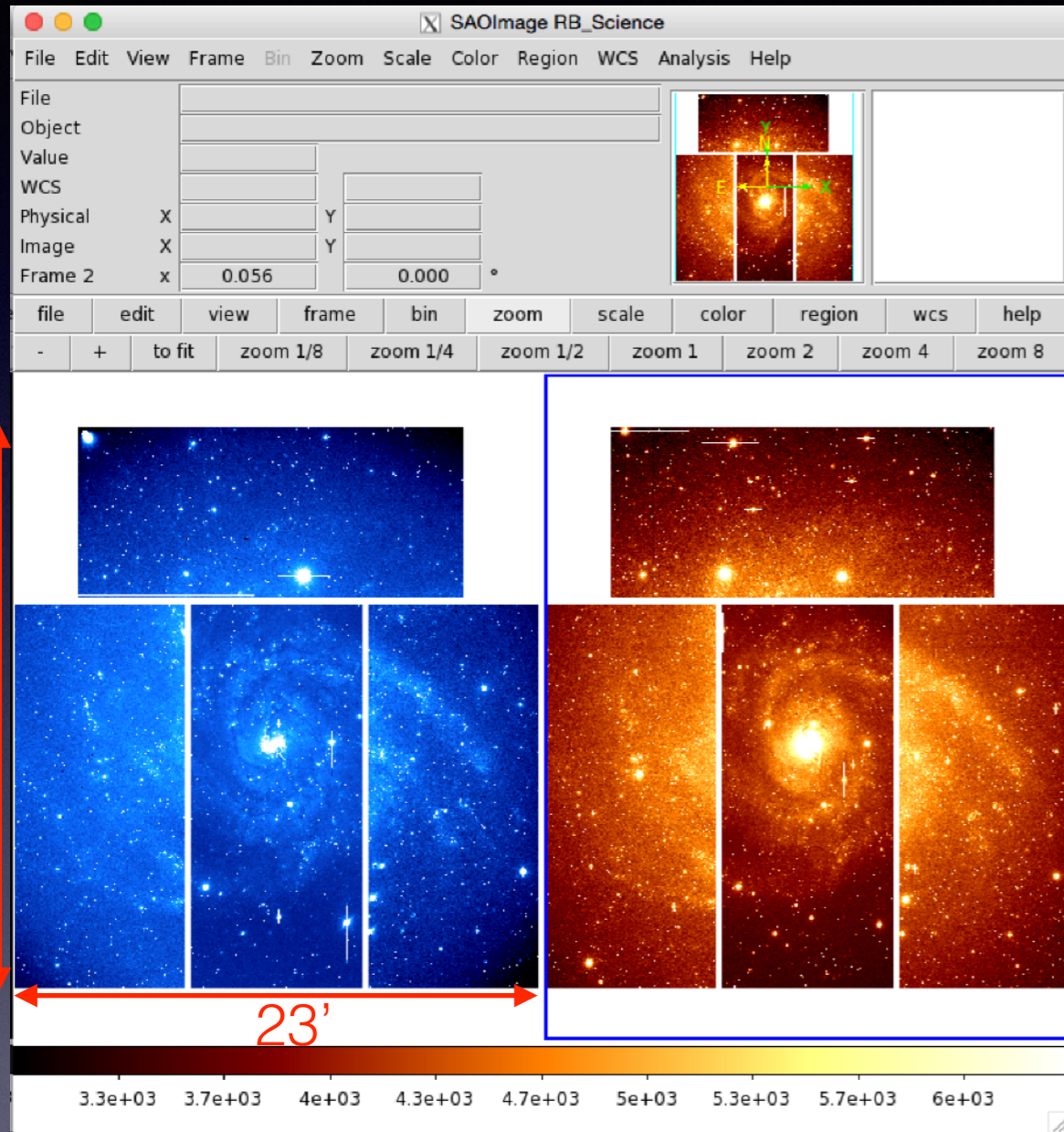
Adaptive Secondary



LBTI



LBC (optical) Wide-Field Camera

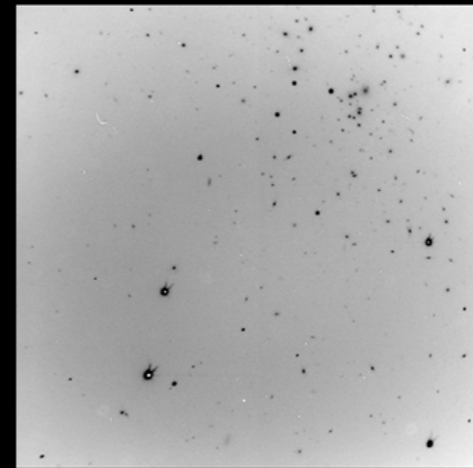


Bessel: UBVRI
Sloan: grizY
Narrow-band filters

MODS (optical) Imager and MOS

6'

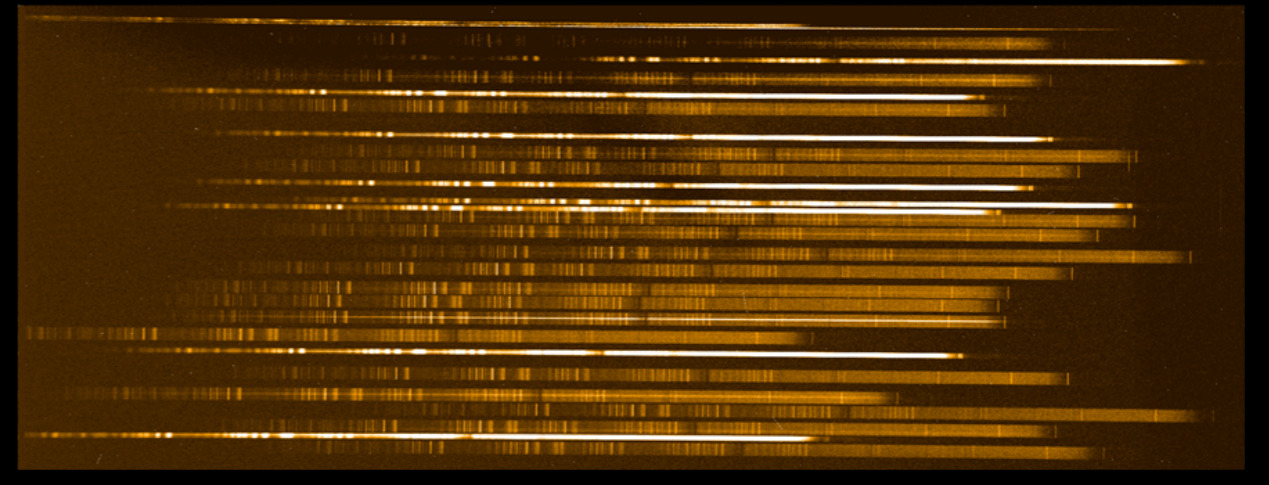
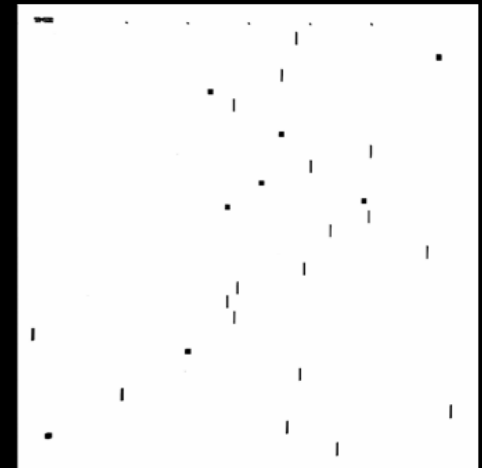
6'



Abell 1689

First MODS1
Multi-Object
Spectrum

2011 Mar 17



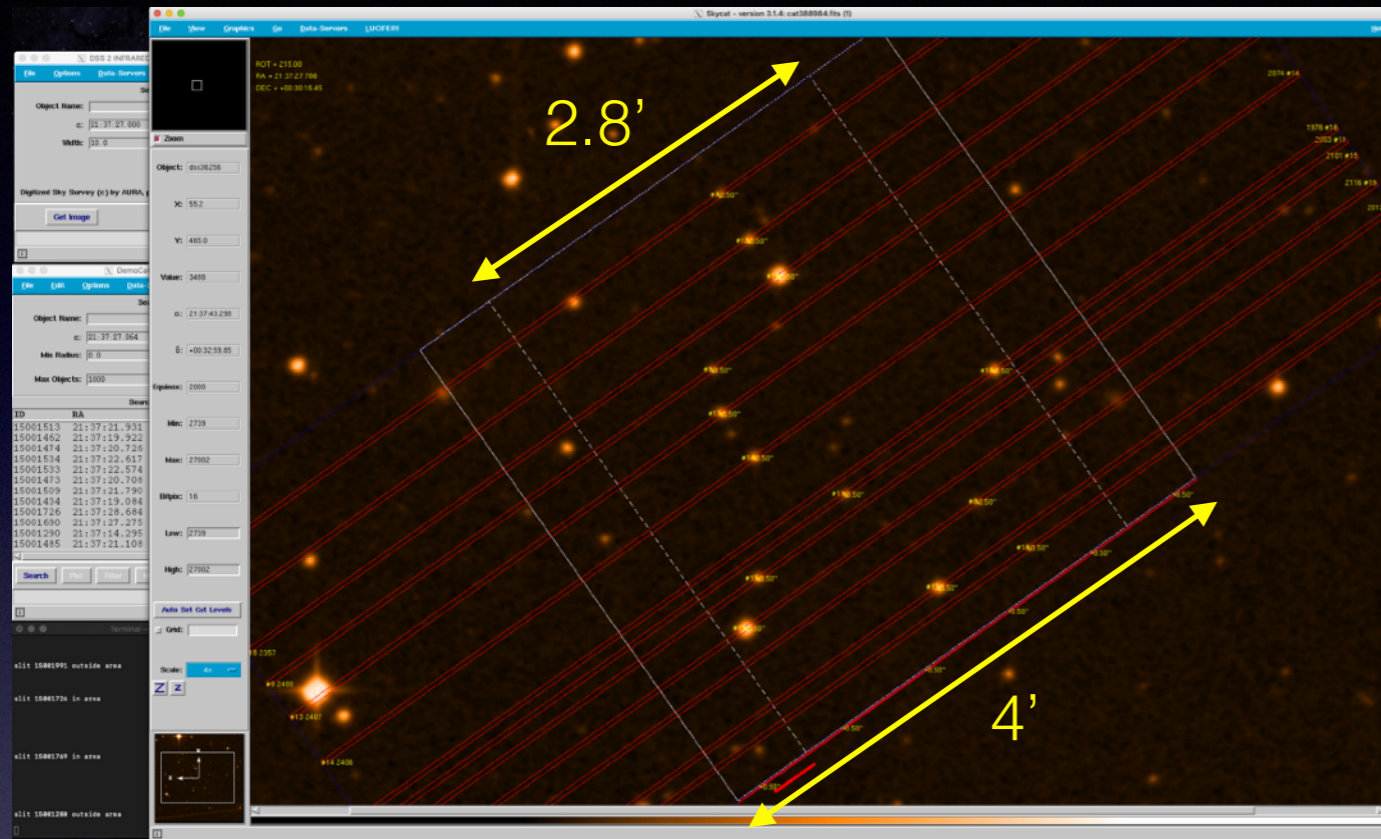
Prism: R~150-500 (0.6" slit)

Grating: R~2000 (0.6" slit)

Blue: 330-600 nm

Red: 500-1000 nm

LUCI (NIR) Imager and MOS



R~5000-6000 (z, J, H, K; 0.5" slit)

R~2000-2600 (zJ, HK; 0.5" slit)

23 exchangeable masks can be loaded

ESM: Enhanced Seeing Mode

Should always be used with a $R < 16.5$ ref star

$< 1.2''$ seeing $\rightarrow 0.2-0.3''$

Diffraction-limited AO imaging

Other instruments

PEPSI

(Fiber-fed high-resolution optical spectrograph; $R=50,000 - 250,000$)

New instruments

(Being commissioned)

SHARK-VIS

SHARK-NIR

iLocator

Go to **lbto.org**

for more detail.

2024A Accepted Programs

2024A AZ Mini-Q's

AZ LBT Time Allocation for 2024A

Total allocated to AZ	35	nights	LBTI	13
Total assigned by AZ	29.6	nights	LBC	4.1
Unassigned (=buffer for bad weather)	5.4	nights	LUCI	3
			MODS	3
Band A (~30%)	2.0	7%	PEPSI	1
Band B (~70%)	27.6	93%	SHARK-NIR	3.5
Band C (filler)	0		any	2

Band A (Goal: ~100% completion) 2 nights

Griffin Hosseinzadeh (ToO) 2 any

Band B (Goal: ~40-50% completion) 27.6 nights

Steve Ertel (Fine-Tuning LBT...)	2	LBTI
Steve Ertel (Fizeau Interferometry...)	1	LBTI
Virginie Faramaz	4	LBTI
Jacob Isbell	2	LBTI
Feng Long	1	LBTI
Kevin Wagner	3	LBTI
Dennis Zaritsky	3	LBC
Mansi Padave	0.5	LBC
Kacper Wierzchos	0.6	LBC
Weizhe Liu	1	LUCI
Zhiyuan Ji	2	LUCI
Nathan Smith	3	MODS
John Hill	1	PEPSI
Al Conrad	0.5	SHARK-NIR
Marah Brinjikji	1	SHARK-NIR+LMIRCam
Justin Hom	1	SHARK-NIR
Sam Ragland	1	SHARK-NIR

Notes:

- 5.4 nights of the AZ observing time is left unassigned, which will be treated as a buffer for bad weathers and any technical problems.

- SHARK-NIR program by Brinjikji et al. uses LMIRCam simultaneously.

- There is no MOS observation.

AZ LBT Schedule for 2024A

AZ Mini-Q's	15.7 nights	(15.5 scheduled below)	Total allocated	35 nights
LBTI	15.8			
SHARK-NIR	3.5			
(Unassigned)	5.4	- AZ MiniQ: 2.6; LBTI: 2.8)		

AZ non-LBTI Mini-Q's

Notes:

- LBTI queues will be run separately by the LBTI team, so please contact Steve Ertel for the scheduling and execution of LBTI programs.

AZ-Q #1	2 nights	Moon (%)
	2/4 (0.5 night)	26.5
	2/5 (0.5 night)	17.6
	2/6 (0.5 night)	10.0
	2/7 (0.5 night)	4.2

AZ-Q #2	5 nights	Moon (%)
	3/6	22.3
	3/7	13.6
	3/8	6.5
	3/9	1.9
	3/10	0.0

AZ-Q #3	5.5 nights	Moon (%)
	5/9 (0.5 night)	5.9
	5/10	12.1
	5/11	19.8
	5/12	28.6
	5/13	38.0
	5/14	47.7

AZ-Q #4	3 nights	Moon (%)
	5/29	54.4
	5/30	43.0
	5/31	31.9

LBT is undersubscribed in recent semesters!

LBT Proposals and AZ Mini-Q's

- Please sign up for the mailing list az_astro_observer@list.arizona.edu to receive calls for proposals every semester (send a request to egami@arizona.edu).
- LBT proposals need to be submitted to two places:
 - UAO TAC: <https://mtnops-tac.as.arizona.edu/>
 - LBTO: Use the PIT tool available at <https://scienceops.lbto.org/proposal-submission/>
- Accepted programs will be executed by the LBTO observers in the queue mode (AZ mini-Q's).
 - Band A (~10 nights): 100% completion,
 - Band B (~20 nights): 40-50% completion