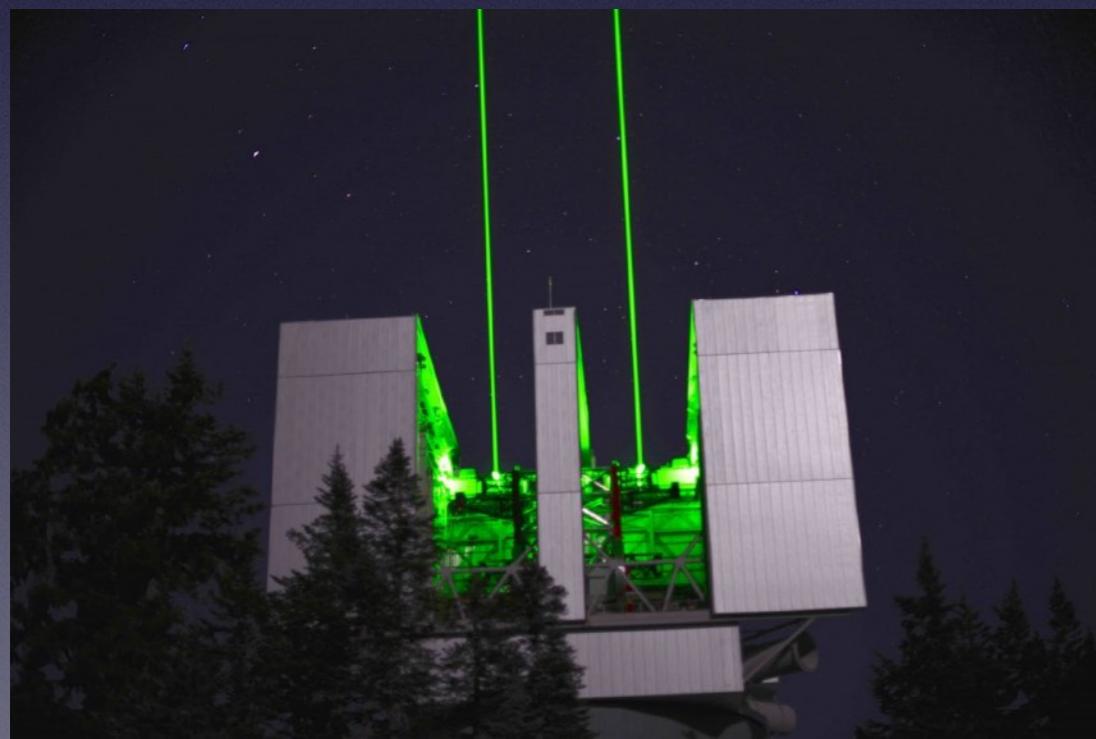
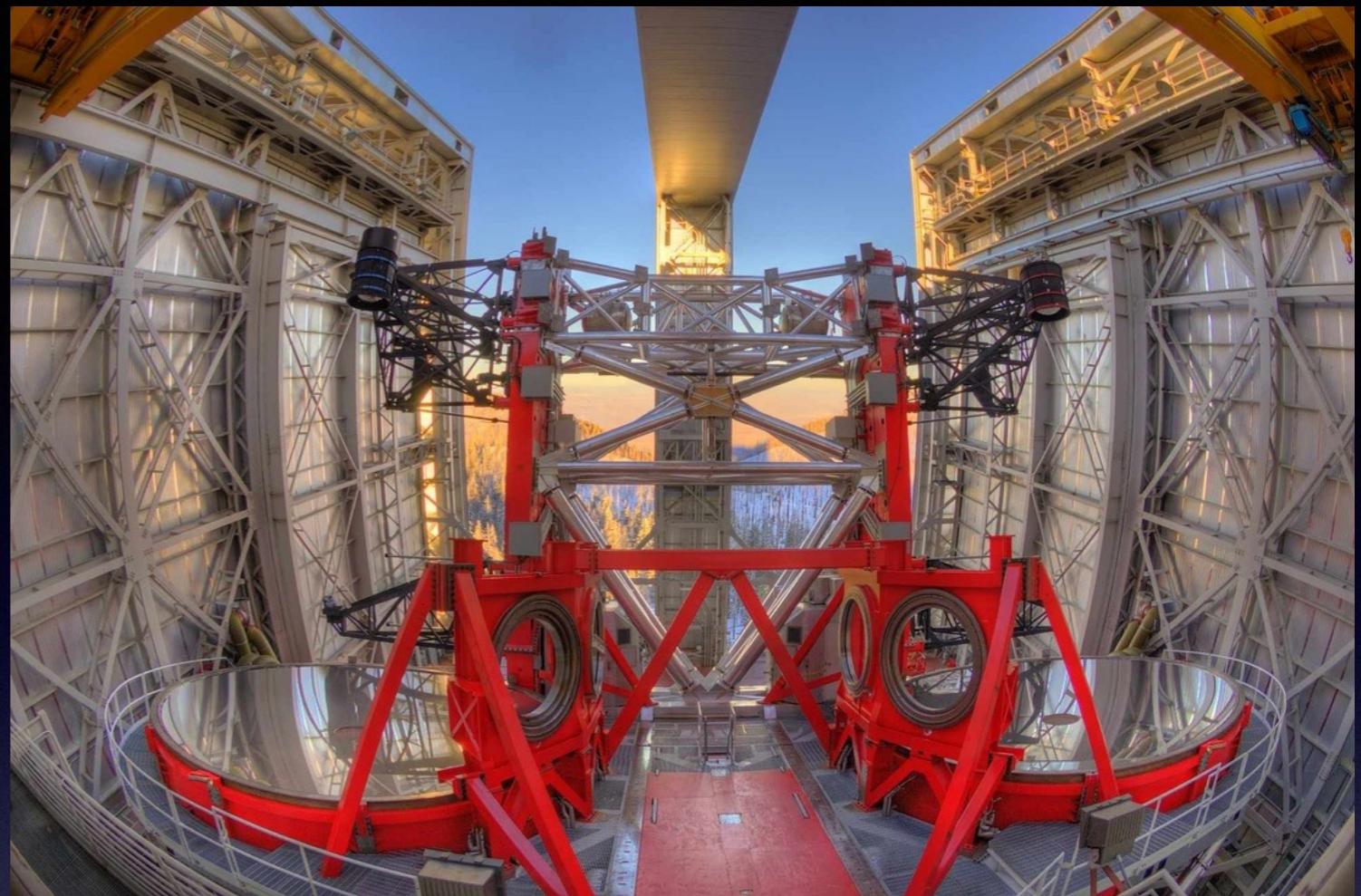
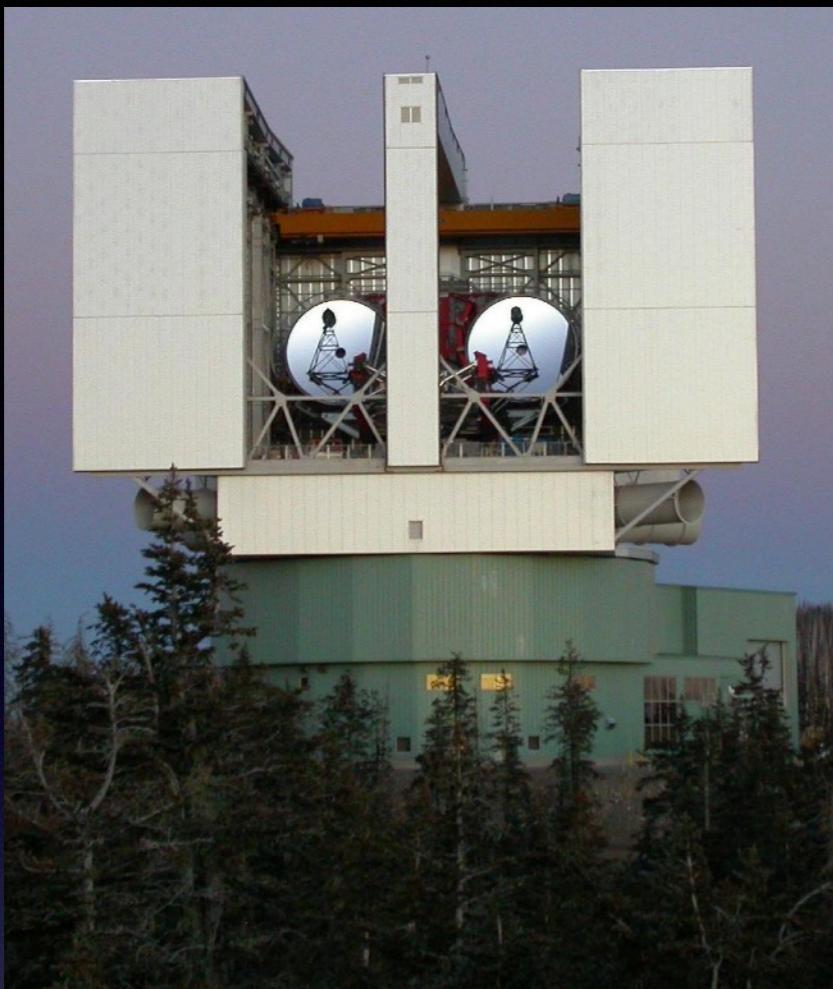


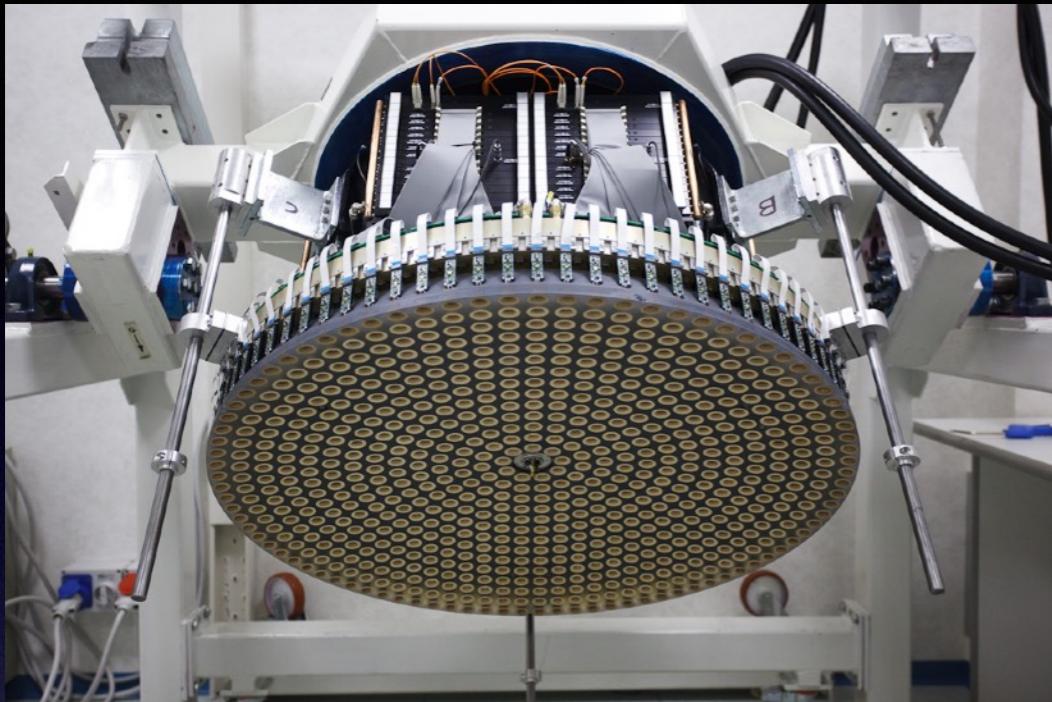
Large Binocular Telescope (LBT)

Eiichi Egami
Arizona LBT Partner Coordinator



AZ gets ~30 nights/semester

Adaptive Secondary



LBTI

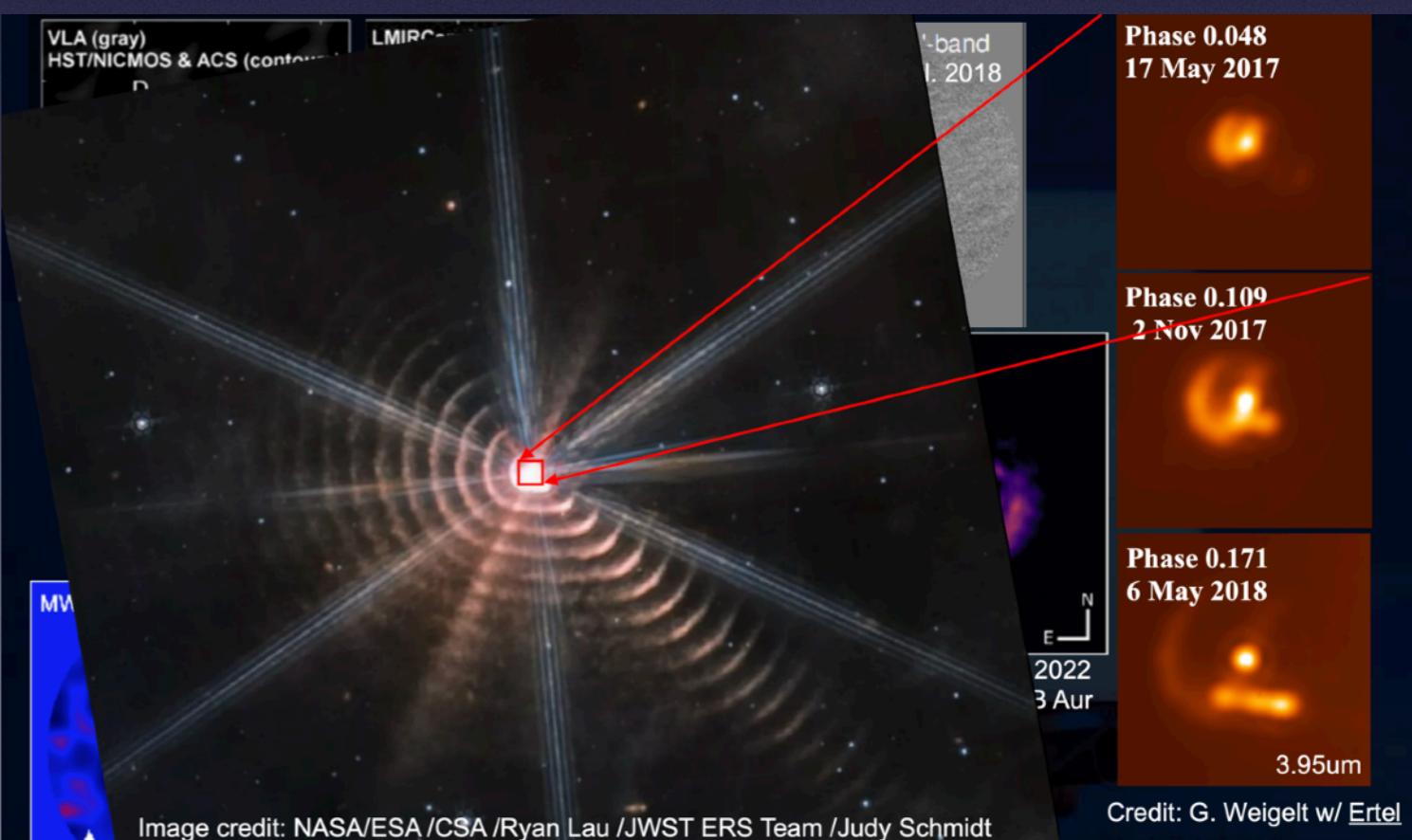
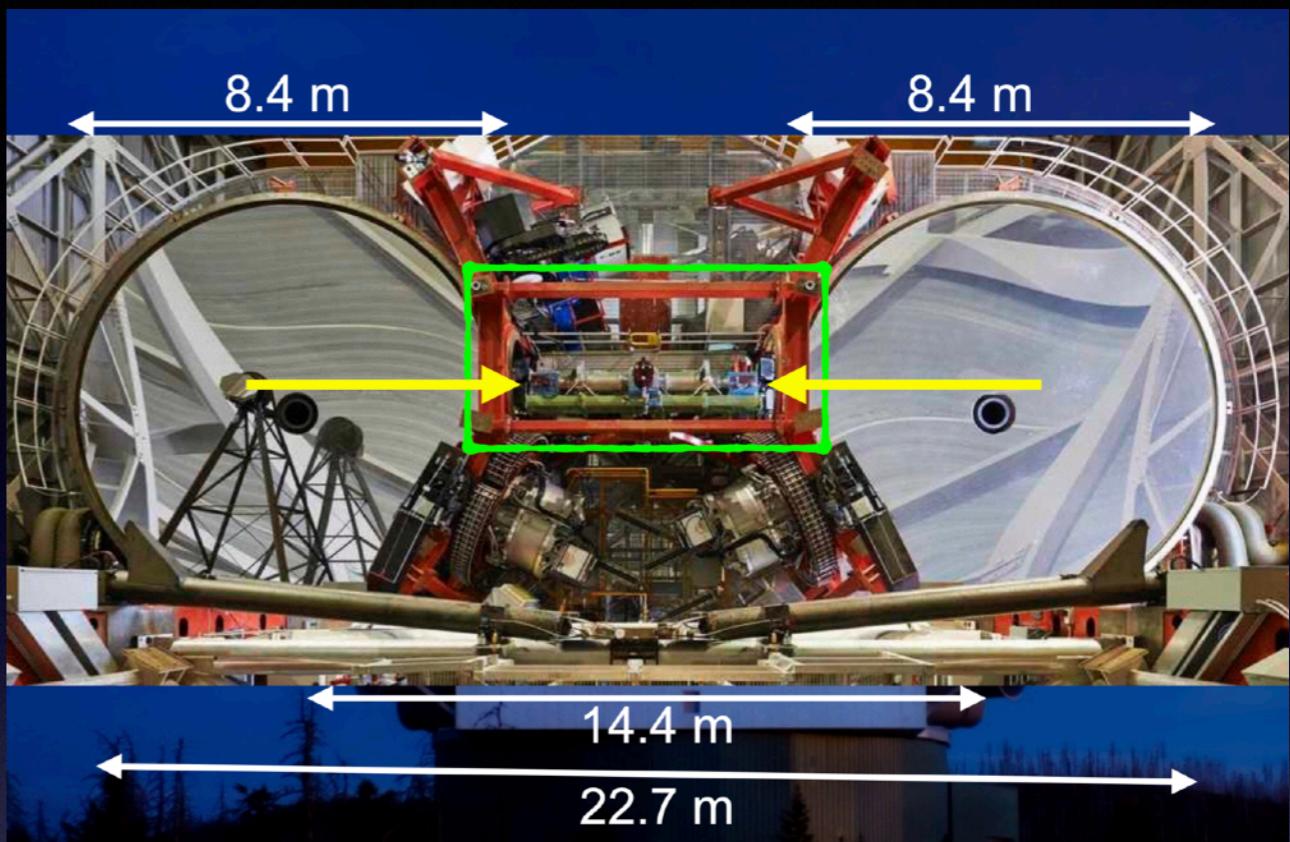
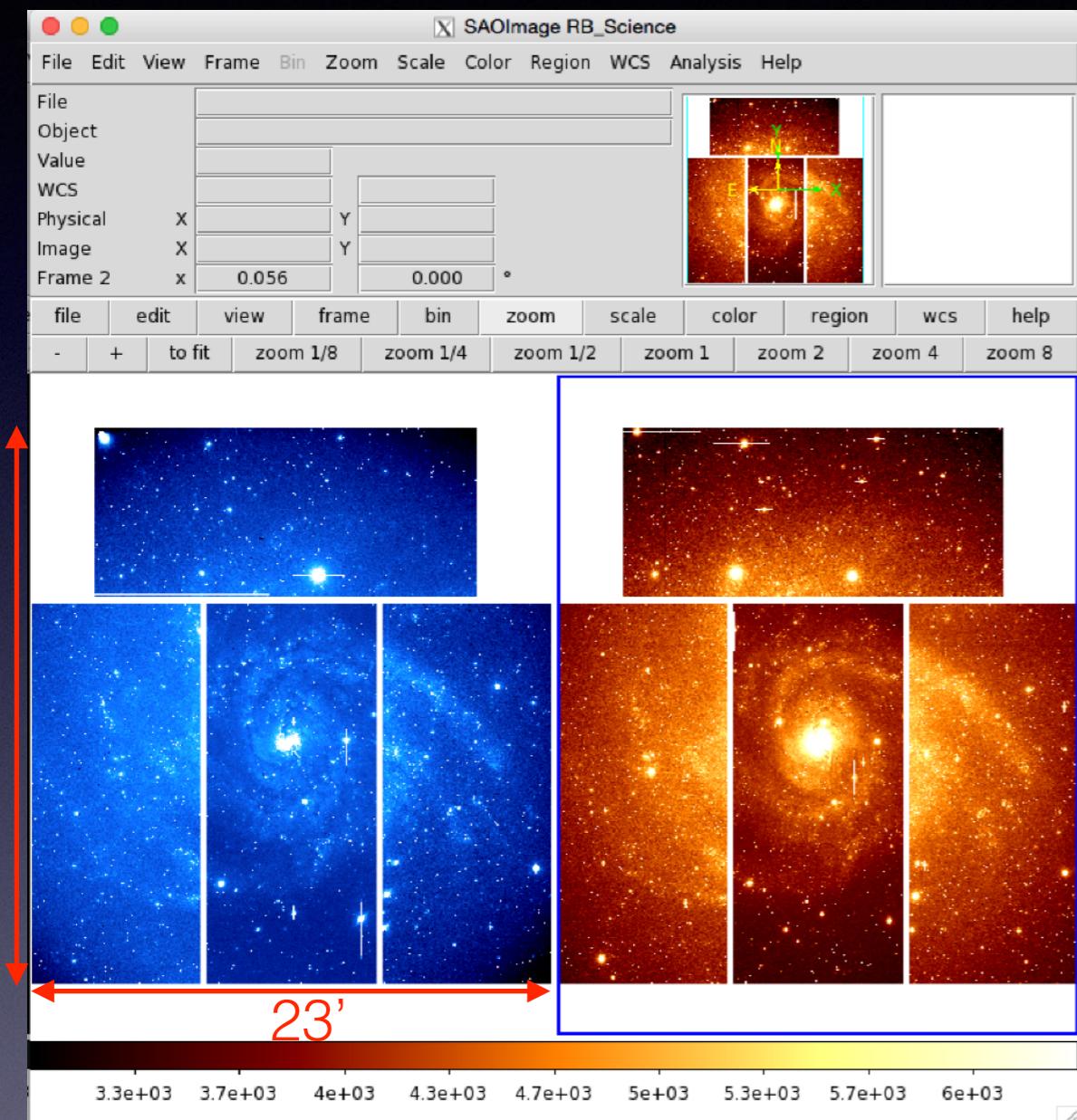


Image credit: NASA/ESA/CSA /Ryan Lau /JWST ERS Team /Judy Schmidt

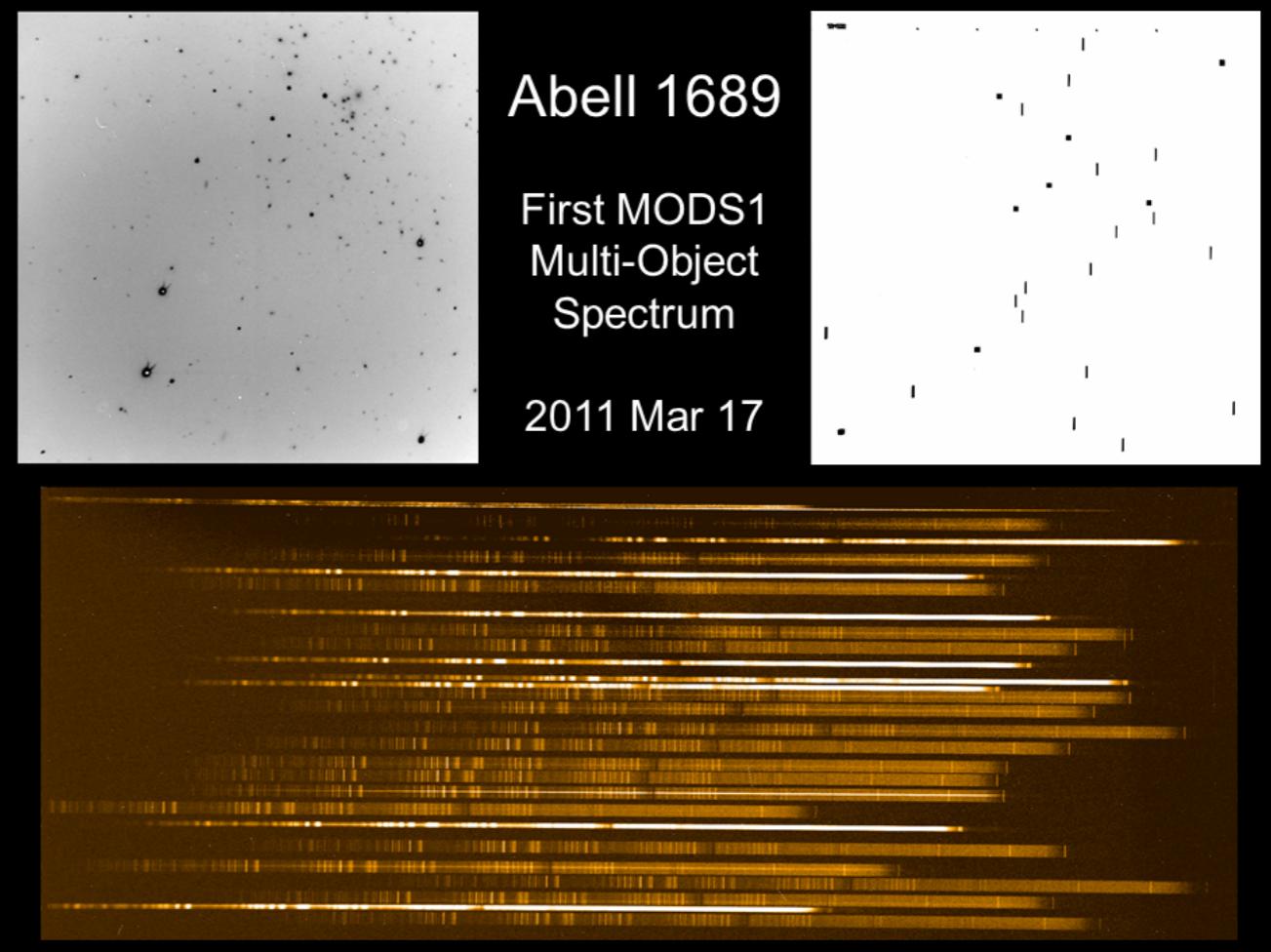
LBC (optical) Wide-Field Camera



Bessel: UBVRI
Sloan: grizY
Narrow-band filters

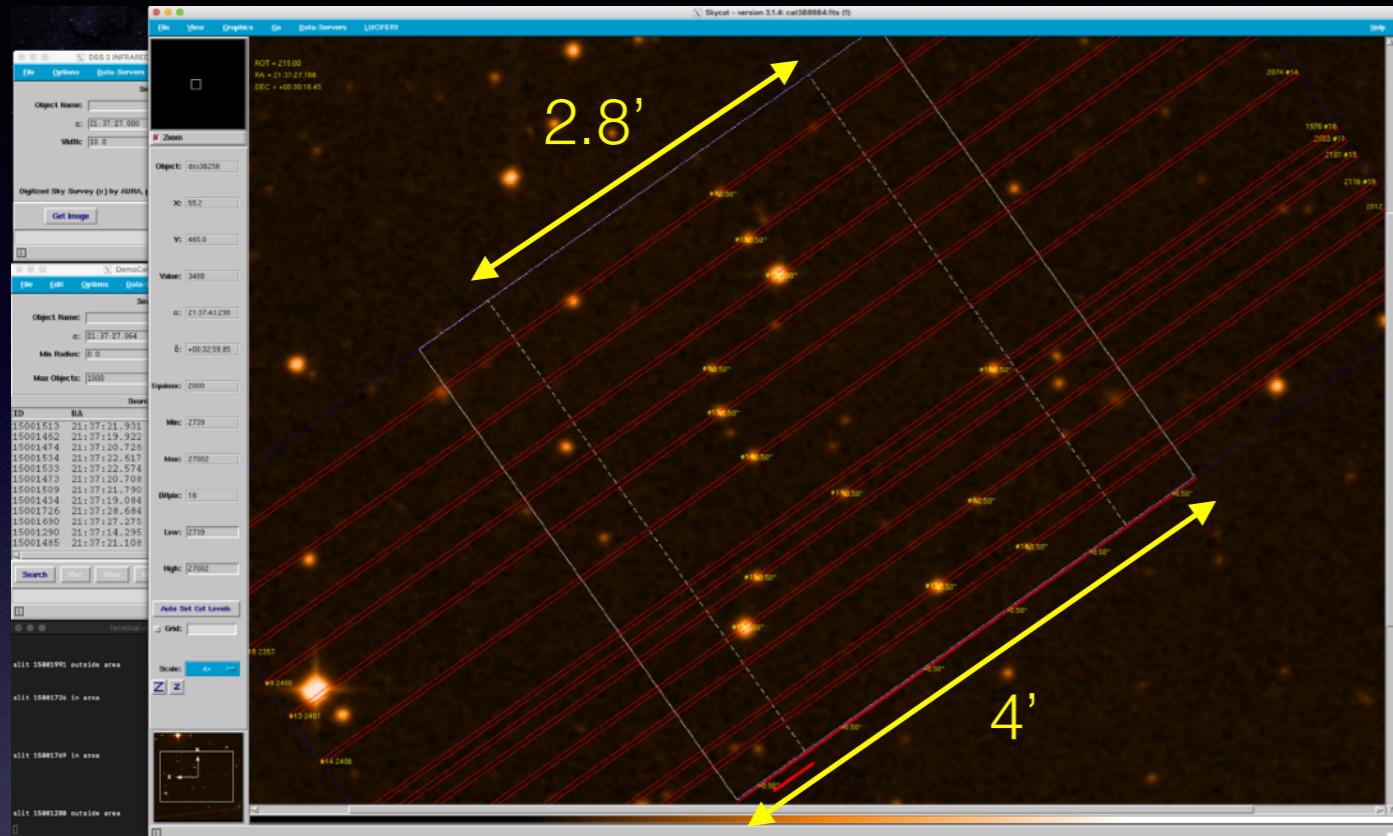
MODS (optical) Imager and MOS

6'
6'



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 → 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
iLocater

Go to **Ibto.org**
for more detail.

2024A Accepted Programs

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	
			PEPSI	1	
Band A (~30%)	2.0	7%	SHARK-NIR	3.5	
Band B (~70%)	27.6	93%	any	2	
Band C (filler)	0				
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			

2024A AZ Mini-Q's

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:	
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 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