KASI 한국천문연구원
K-GMT SCIENCE GROUP

INTERNATIONAL GEMINI OBSERVATORY

2024 K-GMT Science Program
Korea Gemini Office (KGO) Report



Soung-Chul Yang, Eunchong Kim, Sang-Hyun Chun, & Jiyeon Suk

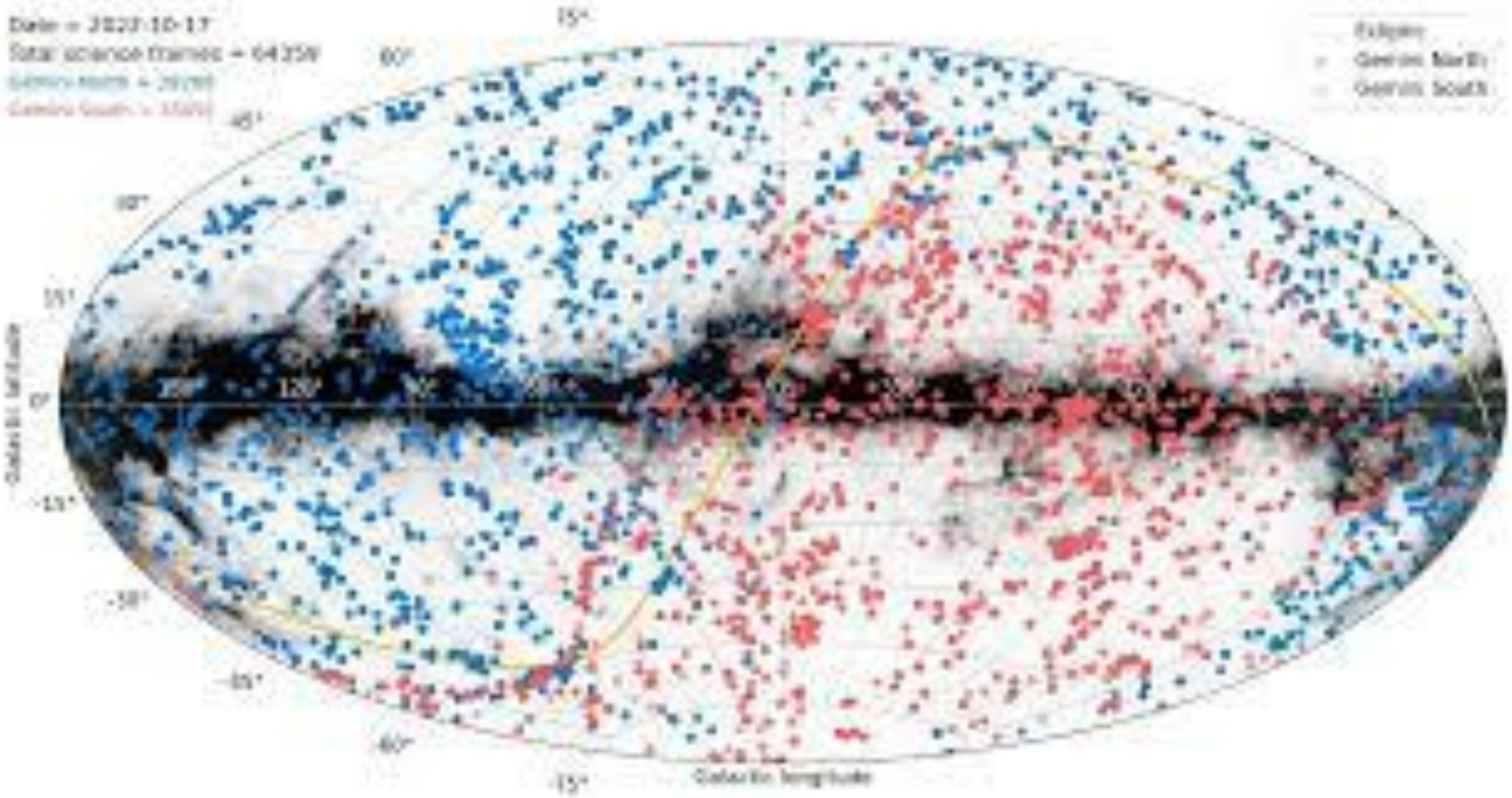
Survey Science Group Workshop 2024 @하이원

What to Cover in This Short Talk

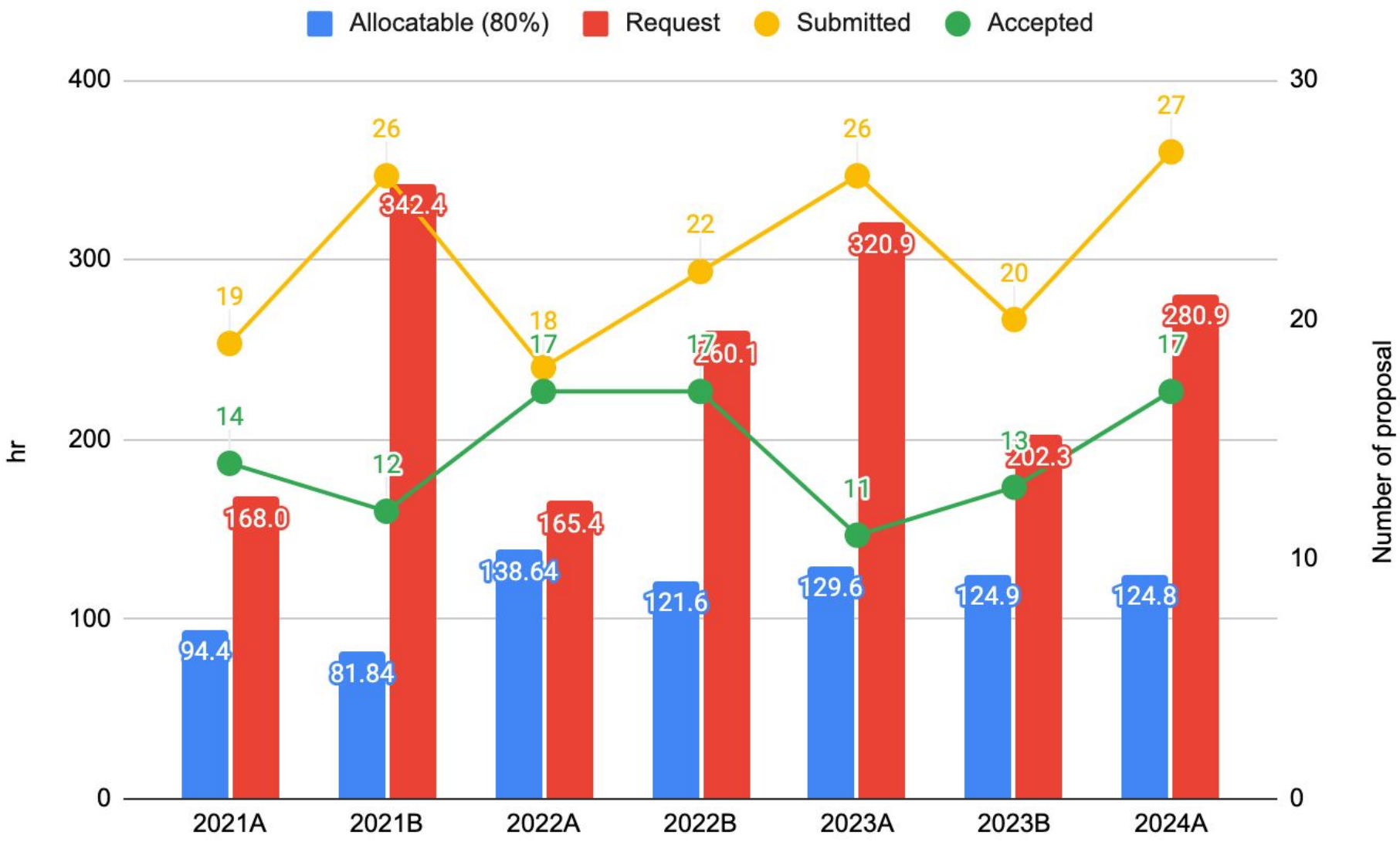
- 2023 K-GMT Science Program Summary
- The 10th K-GMT Summer School
- 2023 Korea Gemini Office

Science Observations at the Gemini Telescopes

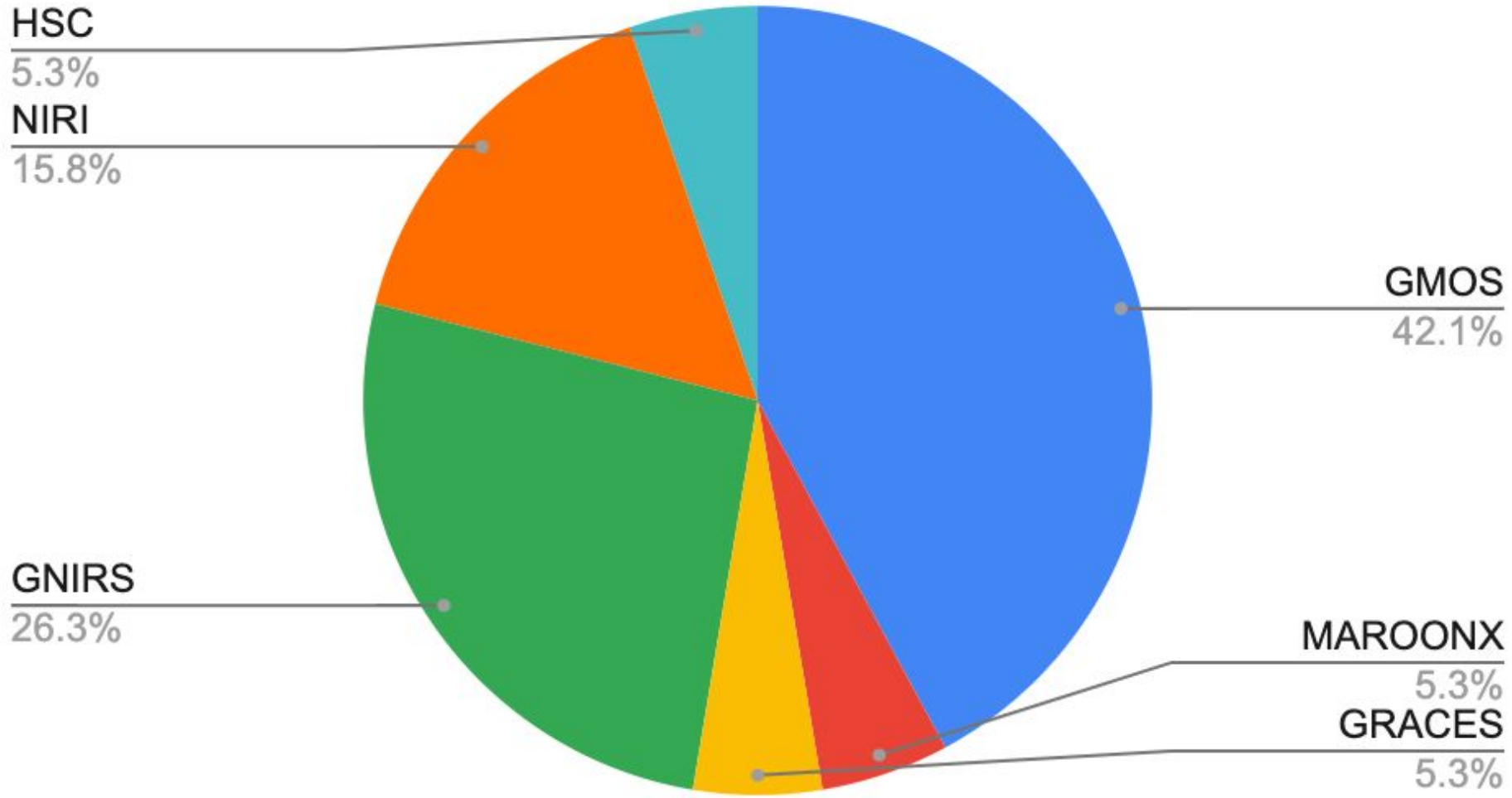
A total of 3139 unique targets were observed in 2022 at the Gemini Telescopes
Science data were acquired by at least one Gemini Telescope on 354 nights (97%)



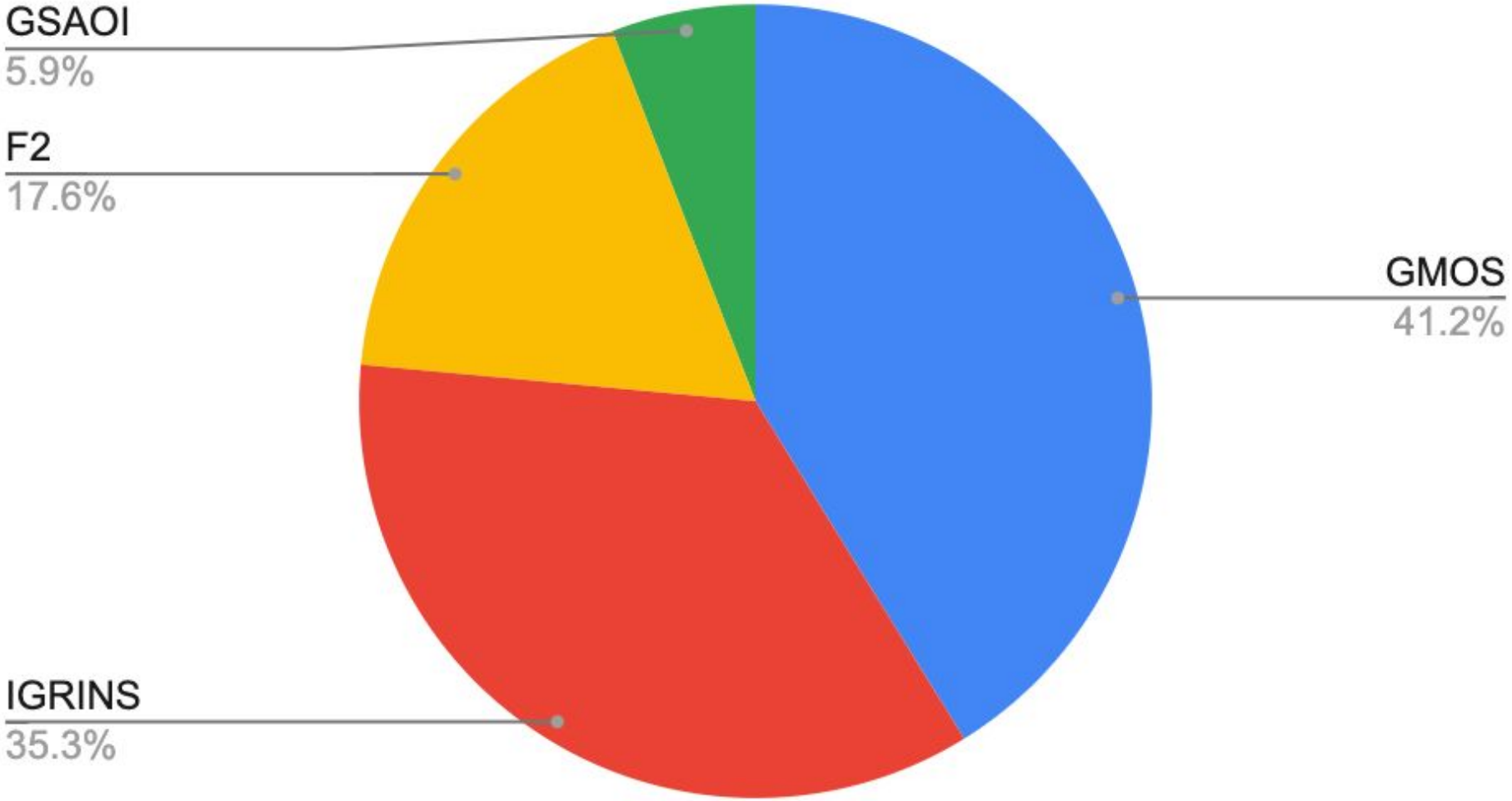
K-GMT SP Historical Demand



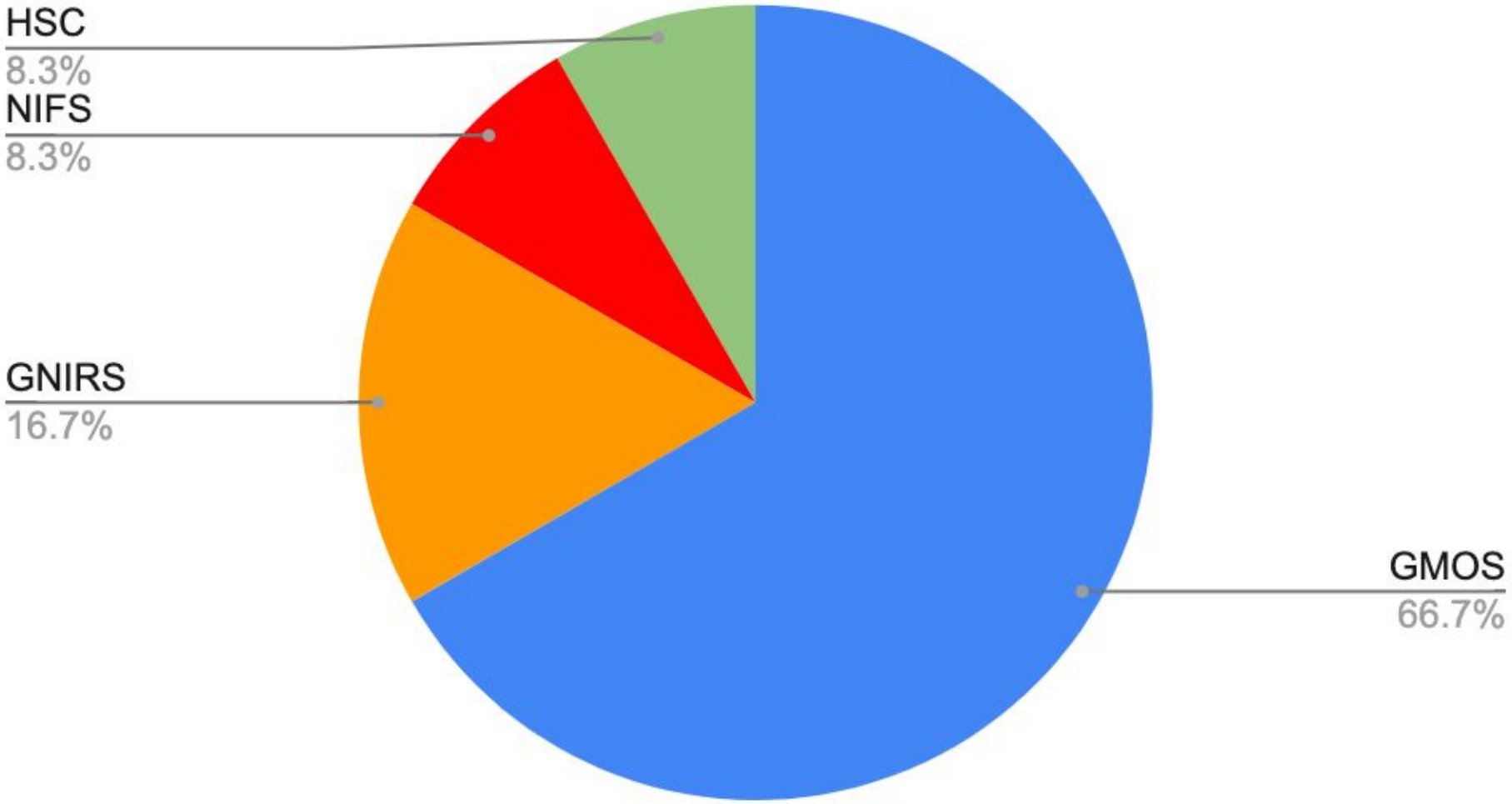
23A KR Demand for GN Instruments



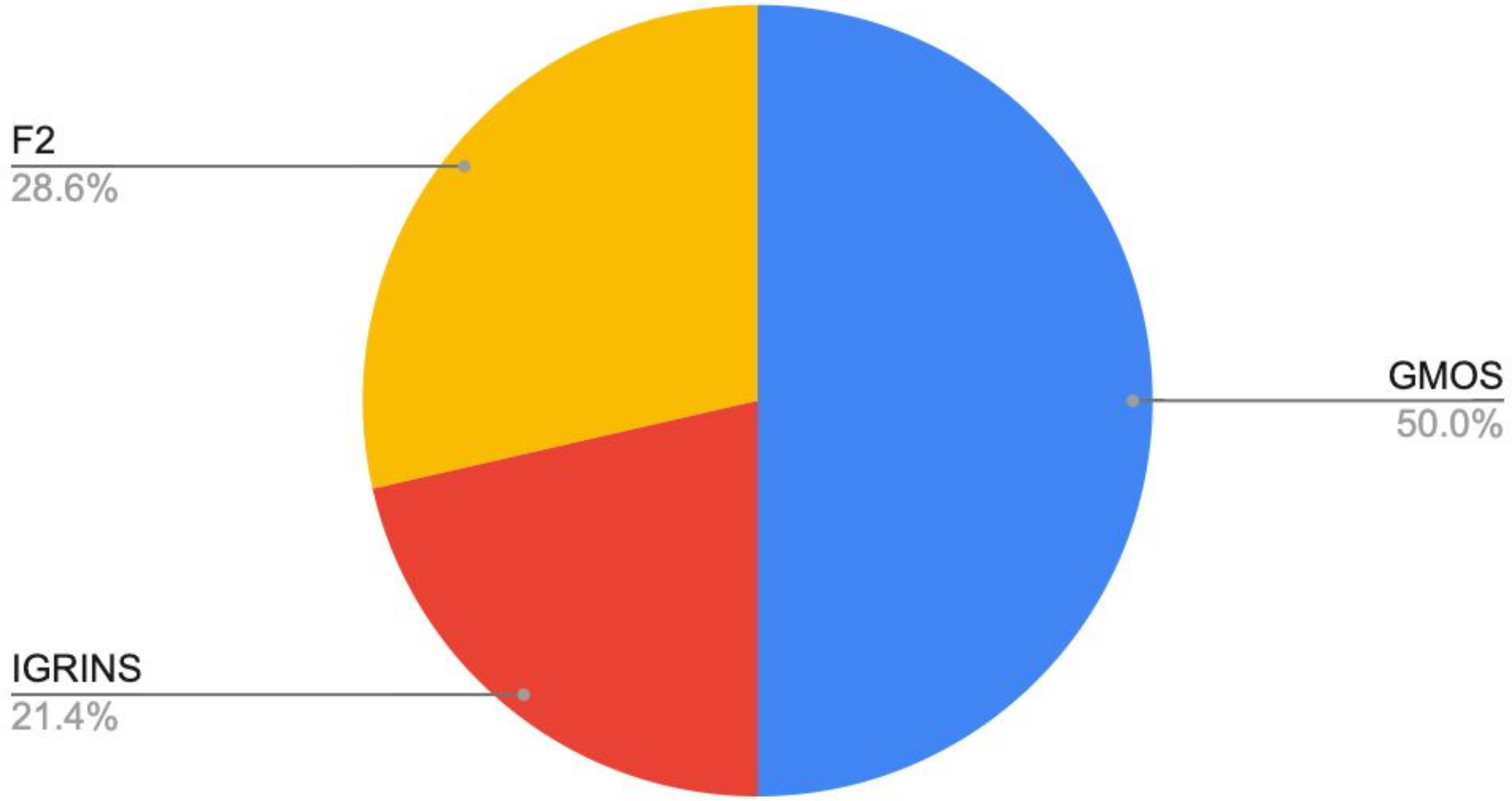
23A KR Demand for GS Instruments



23B KR Demand for GN Instruments



23B KR Demand for GS Instruments



2023 K-GMT SP Summary

23A		GN			GS	
Band	Allocated (hr)	Observed (hr)	Completion (%)	Allocated (hr)	Observed (hr)	Completion (%)
B1	20.61	16.81	81.54%	19.99	10.82	54.10%
B2	20.00	0.00	0.00%	18.01	11.69	64.93%
B3	12.89	7.35	56.98%	17.49	10.94	62.56%
Total	53.50	24.15	45.14%	55.49	33.45	60.28%

23B		GN			GS	
Band	Allocated (hr)	Observed (hr)	Completion (%)	Allocated (hr)	Observed (hr)	Completion (%)
B1	16.87	12.38	73.38%	19.75	4.35	22.03%
B2	23.08	11.18	48.44%	17.86	12.72	71.22%
B3	16	16	100.00%	12.63	3.80	30.09%
Total	55.95	39.56	70.71%	50.24	20.87	41.54%

2023 K-GMT SP Summary

Two Korean FT programs awarded observing time in 23B

GN-2023B-FT-102 (PI. Koo; NIRI) 3.36 hr
“Dense He-rich High-Velocity Ejecta Knots in the Cassiopeia A Supernova Remnant”

GS-2023B-FT-203 (PI. Lim; GHOST) 1.38 hr
“GHOST dual target observation of a wide binary associated with Gaia-Enceladus”

2024 K-GMT SP Status

27 proposals

were submitted
(GN: 11,GS:13, GN+GS: 3)

18 proposals

awarded observing time
(GN: 6, GS: 6 GN+GS: 3)

124.8 hours

Allocatable time for 24A KR Programs (80% of KR time)

280.85 hours

Total requested time by 27 submitted proposals

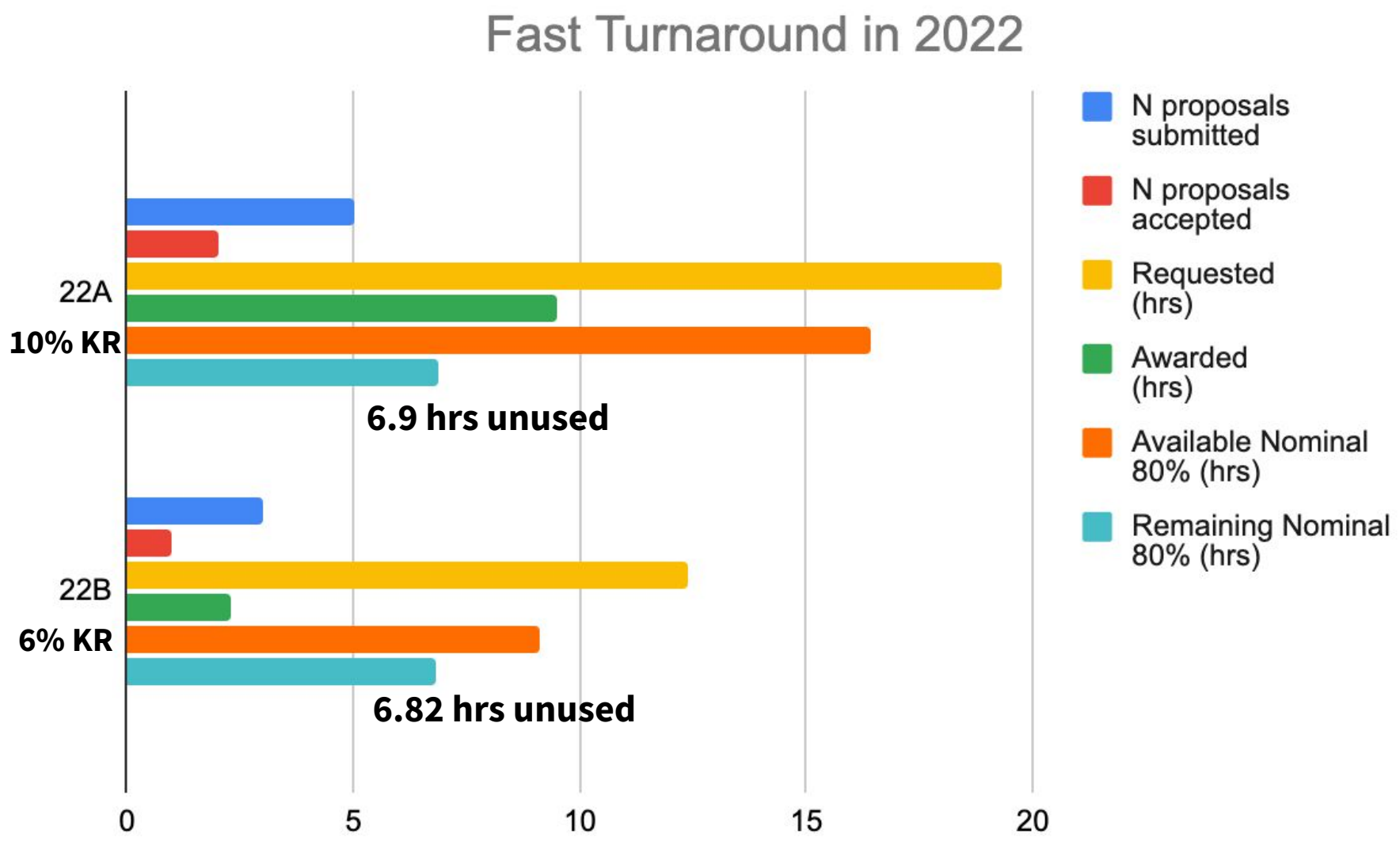
2.25 Oversubscription Rate

The two Band3 LOI were submitted and awarded time in **24A.**

2022 K-GMT SP Summary - Fast Turnaround (FT)

	N proposals Submitted	N proposals Accepted	Requested (hrs)	Awarded (hrs)	Available Nominal 80% (hrs)	Remaining Nominal 80% (hrs)
22A	5	2	19.29	9.5	16.4	6.9
22B	3	1	12.41	2.32	9.14	6.82

2022 K-GMT SP Review - Fast Turnaround (FT)



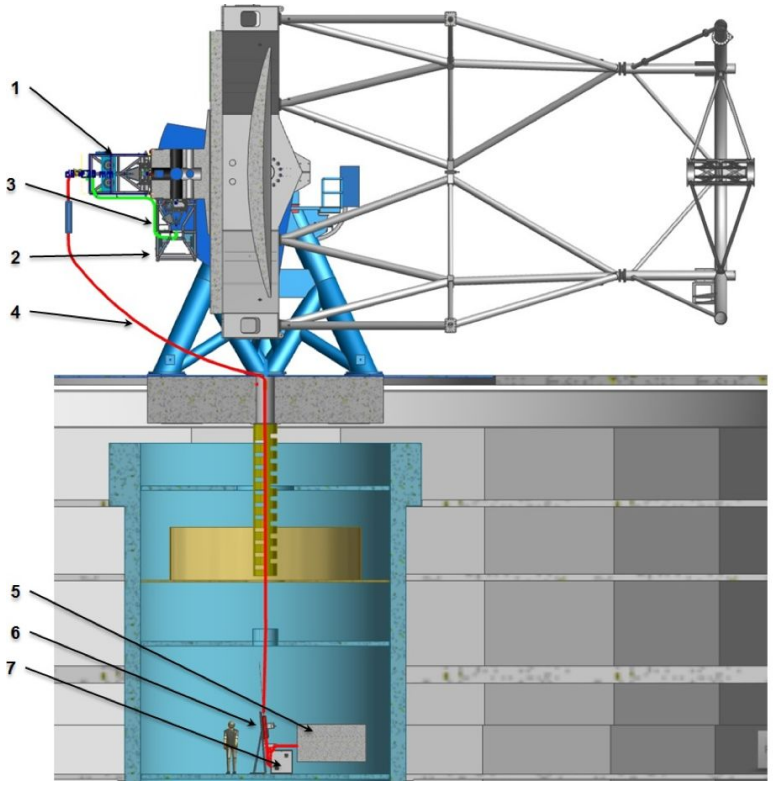
2023 K-GMT SP Important News

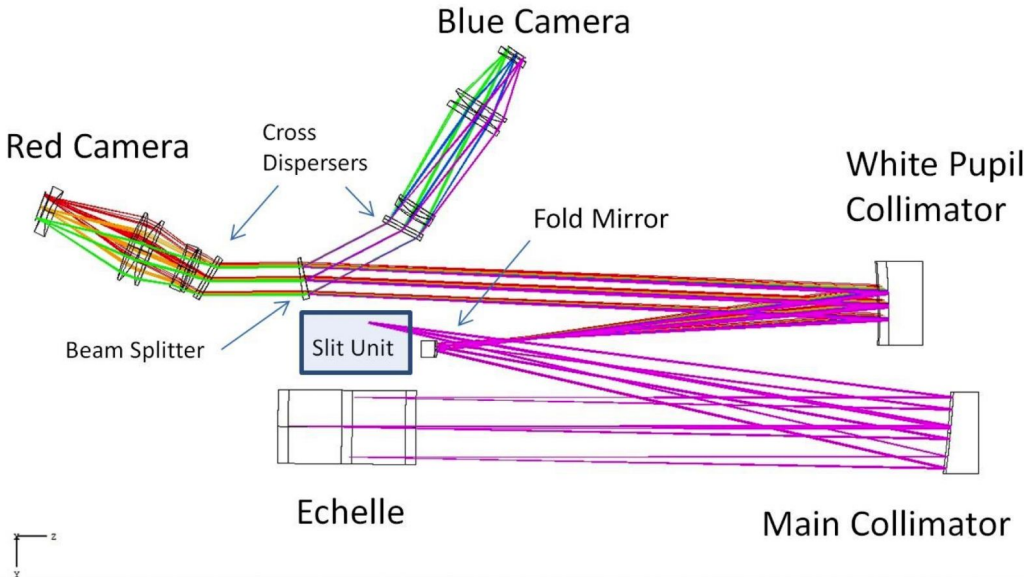
[1] GHOST Opportunity @Gemini South

[2] The 2nd Opportunity of Band 3 LOI programs

[3] The 10th K-GMT Summer School (early Aug)

GHOST is here now !!! @Gemini South





GHOST provides **high resolution optical spectroscopy** at Gemini South, by using optical fibers connecting a cassegrain mounted integral field unit array to a bench spectrograph

GHOST is here now !!! @Gemini South

- **GHOST** performs **echelle spectroscopy** between **363 and 950nm**, for **a single target** with spectral resolution **(*R*) greater than 75,000** (in the high resolution mode), and for either one or two targets (separated by at least 102 arcsec) with *R* of around 50,000 (**the standard resolution mode**).

A GHOST System Verification (SV) observing run is planned for May 2023.
The purpose of this run is to:

- Perform end-to-end testing of the software, documentation, and operational procedures to prepare for larger scale deployment (i.e., **GHOST Shared Risk Call for Proposals in 23B, Regular operations in 24A**)
- Provide an initial set of publicly available GHOST data to showcase the commissioned capabilities and range of science and inform proposal preparation by the wider Gemini community

About 40 hours of engineering time have been allocated for GHOST SV observations.

GHOST is here now !!! @Gemini South

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GHOST is here now !!! @Gemini South

Time Line

- **May**: Observations performed ~May 6-16. Description of the observations released.

- **August**: Expected release of **Call for Proposals for GHOST Shared Risk** science in **late August**, with **deadline September 30**, **for observations in the period November - January 2024**. **61.3 hours** have been allocated for this call.

The 2nd opportunity for Band 3 LOI programs

Purpose: to promote research using Gemini Band 3 programs

Benefits: multi-season observation with a simpler submission and review procedure

- ***Max. time for B3 LoI: ½ of allocatable B3 time per semester***

Letters will be collected along with the 24A CfPs! (early Sep)

The 2nd opportunity for Band 3 LOI programs

The 1st Operation of Band 3 LOI Program (2021 - 2022)

Program selection in 21B: **two B3 LoI programs** selected

(1 GN, 1 GS for 21B-23A)

★ **Spectroscopic identification of variable sources from KMTNet TMT (PI: J.-W. Kim)**

★ **NIR spectroscopic study of AGNs at z<0.36 (PI: D. Kim)**

Completion rate of both program is 100% at 21B-22A!

2023 거대마젤란망원경 여름학교

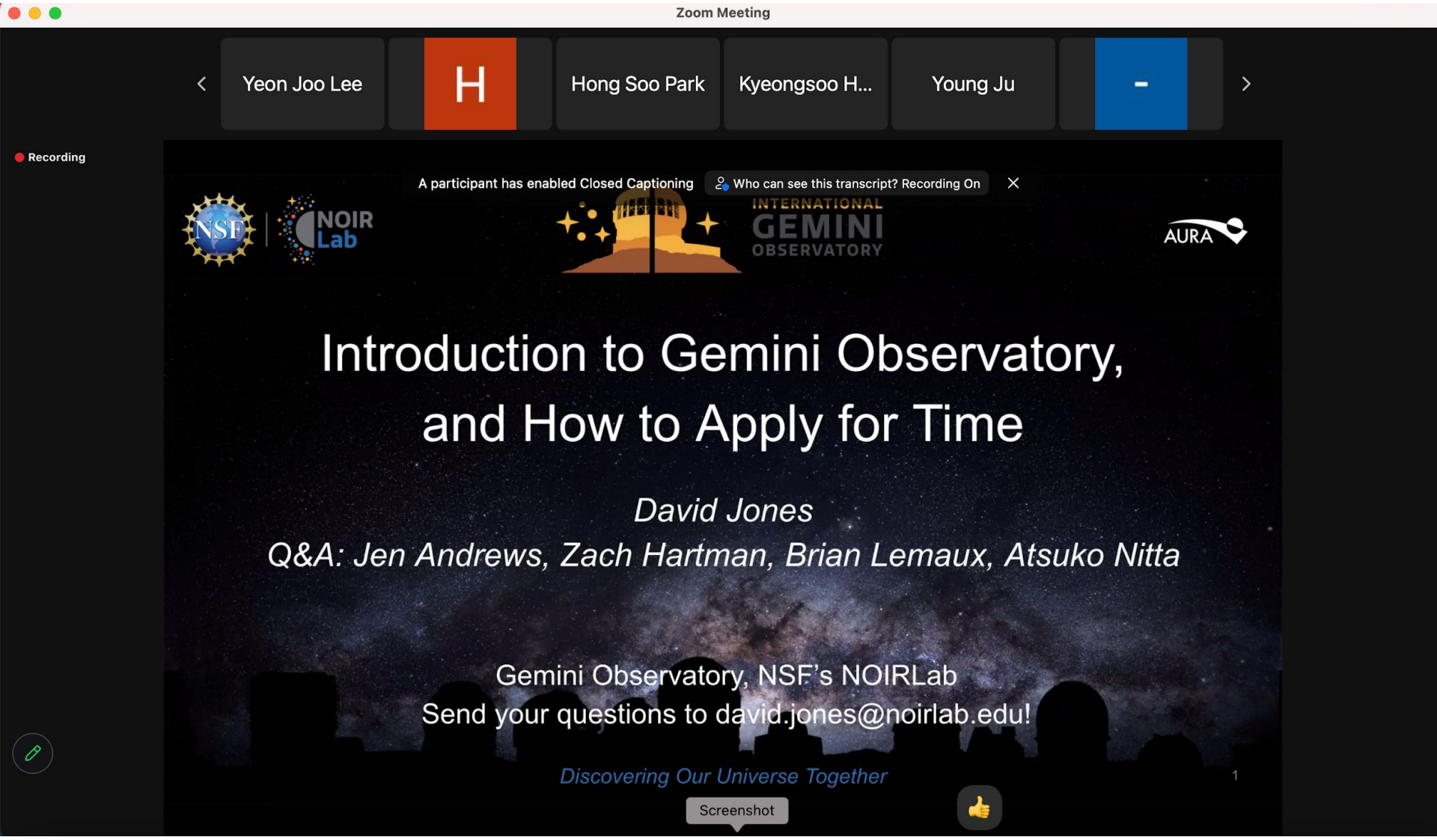
2023/7/26 Gemini Webinar Series #1

2023/8/21-25 @더케이호텔 경주

2023/8/30 Gemini Webinar Series #2

Gemini Webinar Series #1

2023/7/26


Zoom Meeting
Yeon Joo Lee
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Hong Soo Park
Kyeongsoo H...
Young Ju
Recording
A participant has enabled Closed Captioning
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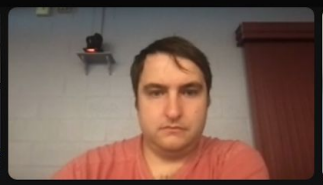
NSF
NOIR Lab
INTERNATIONAL GEMINI OBSERVATORY
AURA
Introduction to Gemini Observatory, and How to Apply for Time
David Jones
Q&A: Jen Andrews, Zach Hartman, Brian Lemaux, Atsuko Nitta
Gemini Observatory, NSF's NOIRLab
Send your questions to david.jones@noirlab.edu!
Discovering Our Universe Together
1
Screenshot

Zoom Meeting

A participant has enabled Closed Captioning | Who can see this transcript?








Yeon Joo Lee

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Hong Soo Park

Kyeongsoo Hong

Young Ju

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Lael Shin

Connecting to audio ···

Yeji Kim

Bomi Park

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Dongseob Lee (KNU)

Tae-Hyoung Kim



Y

Sangjun Cha

Yeon-Ho Choi

김태완

yewon kang

-

Jeehye Shin


라온제나업파크

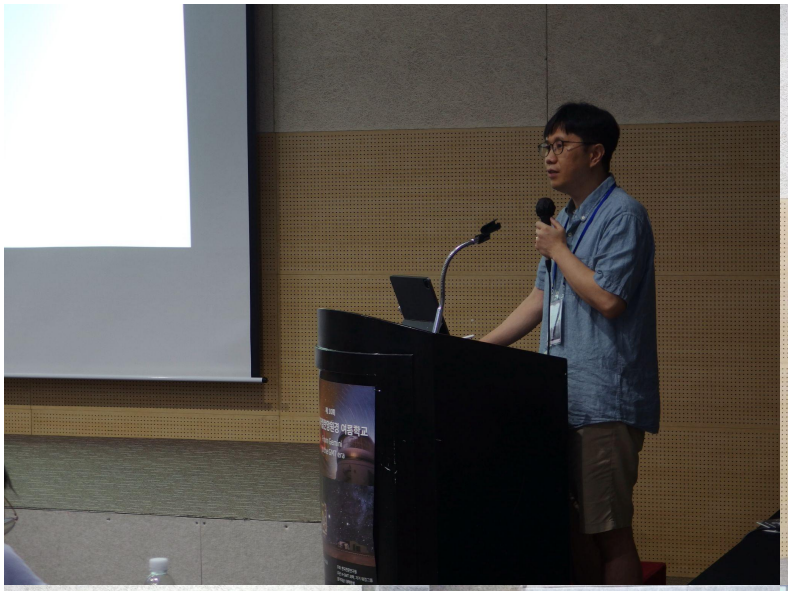
여름학교 프로그램

시간	Day 1 8/21(Mon)	Day 2 8/22(Tue)	Day 3 8/23(Wed)	Day 4 8/24(Thr) Final Presentation Day	Day 5 8/25(Fri)
09:00-10:00		손주비교수 #1	임범두교수 #1	Team Presentation #1	Checkout
		10min Break	10min Break	10min Break	
10:10-11:10		손주비교수 #2	임범두교수 #2	Team Presentation #2	2023 KGO Report
		10min Break	10min Break	10min Break	10min Break
11:20-12:30		Group Activity #1	Group Activity #3	Team Presentation #3	GMT Status
12:30-14:00		Lauch Time	Lauch Time	Lauch Time	Closing
14:00-15:00	Registration 자기소개 포스터 설치	박명구교수 #1	김민진교수 #1	Team Presentation #4	
		10min Break	10min Break	10min Break	
15:10-16:10	Lecture #1-1 (기기강의)	박명구교수 #2	김민진교수 #2	Team Presentation #5	
	10min Break	10min Break	10min Break	10min Break	
16:20-17:20	Lecture #1-2 (기기강의)	Group Activity #2	중간점검 Presentation 10min/Group	Team Presentation #6	
	Break				
18:00-19:30	Dinner	Dinner	Dinner	Banquet (뒷풀이)	
19:30-21:00	Welcome Reception Introduce Myself Group Meeting #1	Free Time or Group Activity	Free Time or Group Free Time		
21:00-24:00					

주제별 강의 - GMT Instruments (오희영/이성호)



주제별 강의 - 김민진, 박명구, 손주비, 임범두









주제별 강의 - 박병곤 (GMT Status)

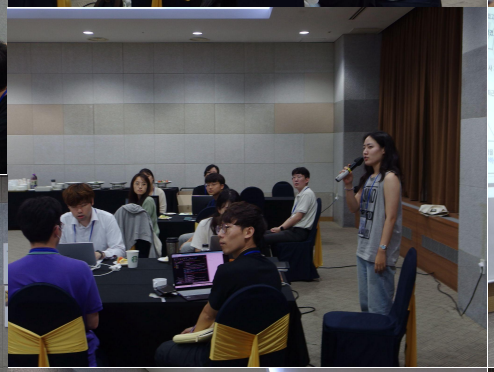


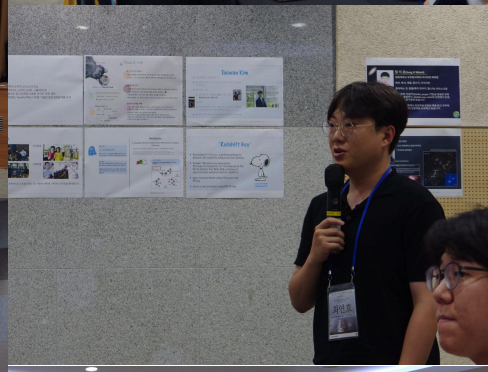
자기소개 Flash Talks

















조별활동



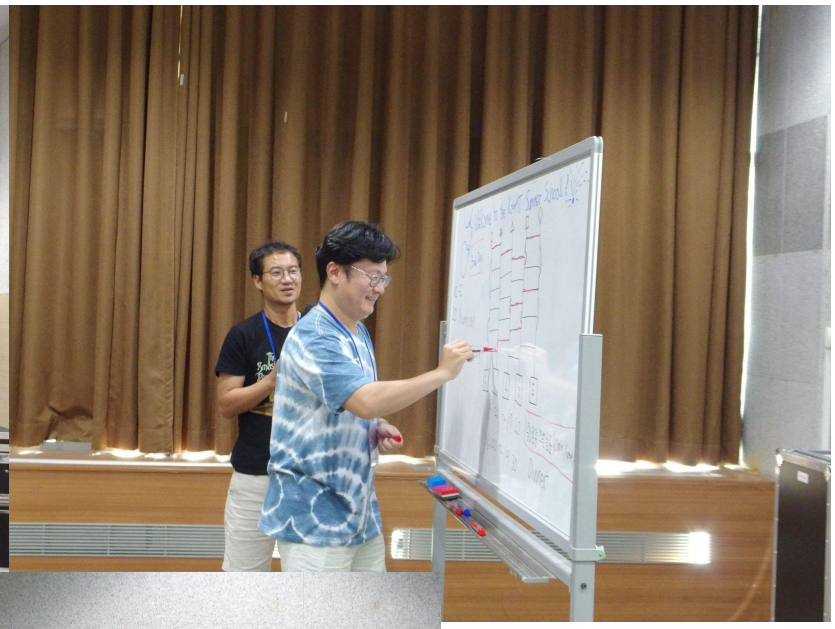






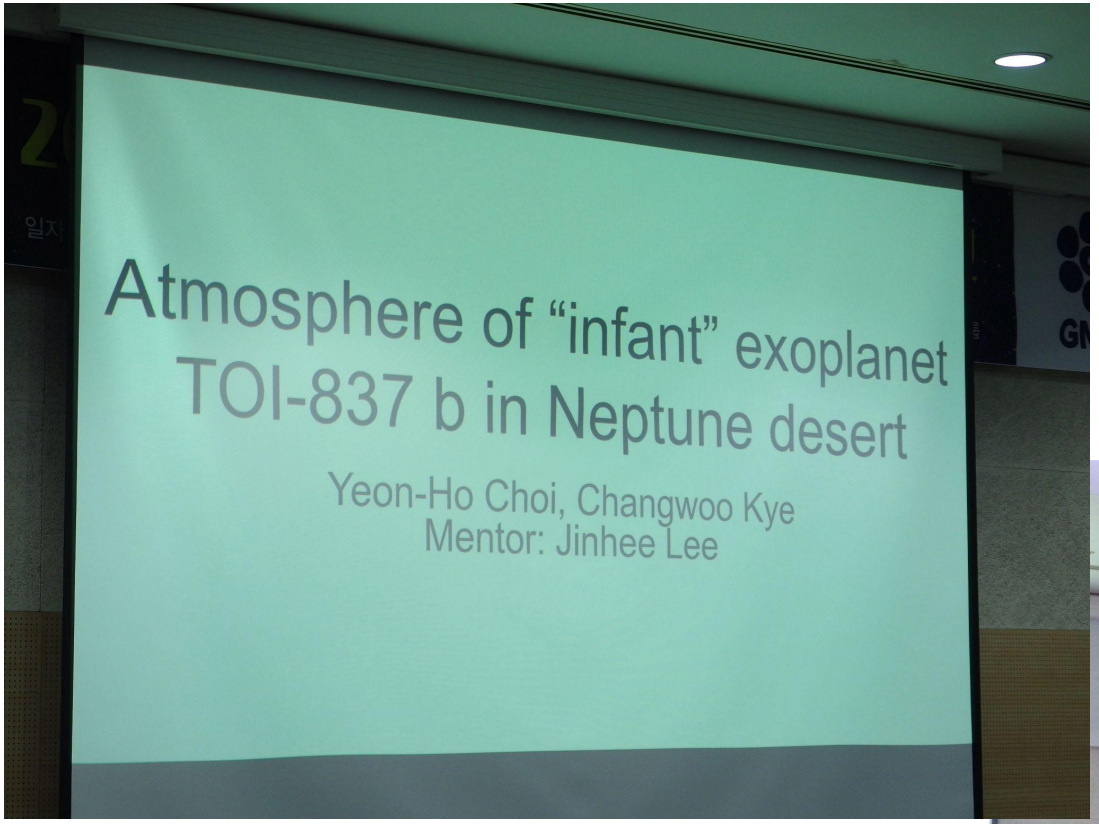
관측연구주제 개발/발표/Peer Review 토론







관측연구주제 개발/발표/Peer Review 토론







관측연구주제 개발/발표/Peer Review 토론







관측연구주제 개발/발표/Peer Review 토론





관측연구주제 개발/발표/Peer Review 토론





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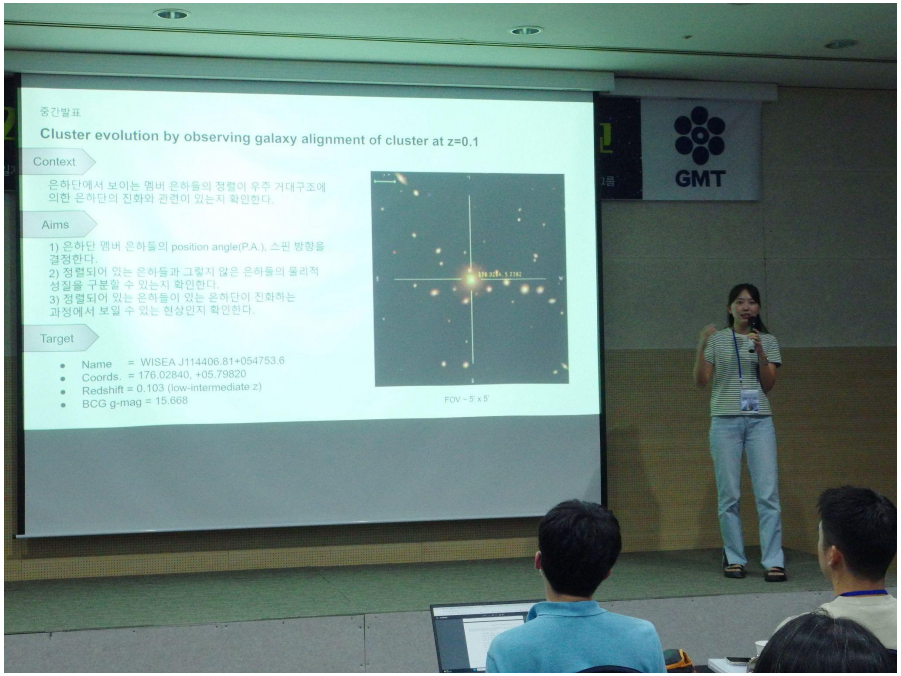
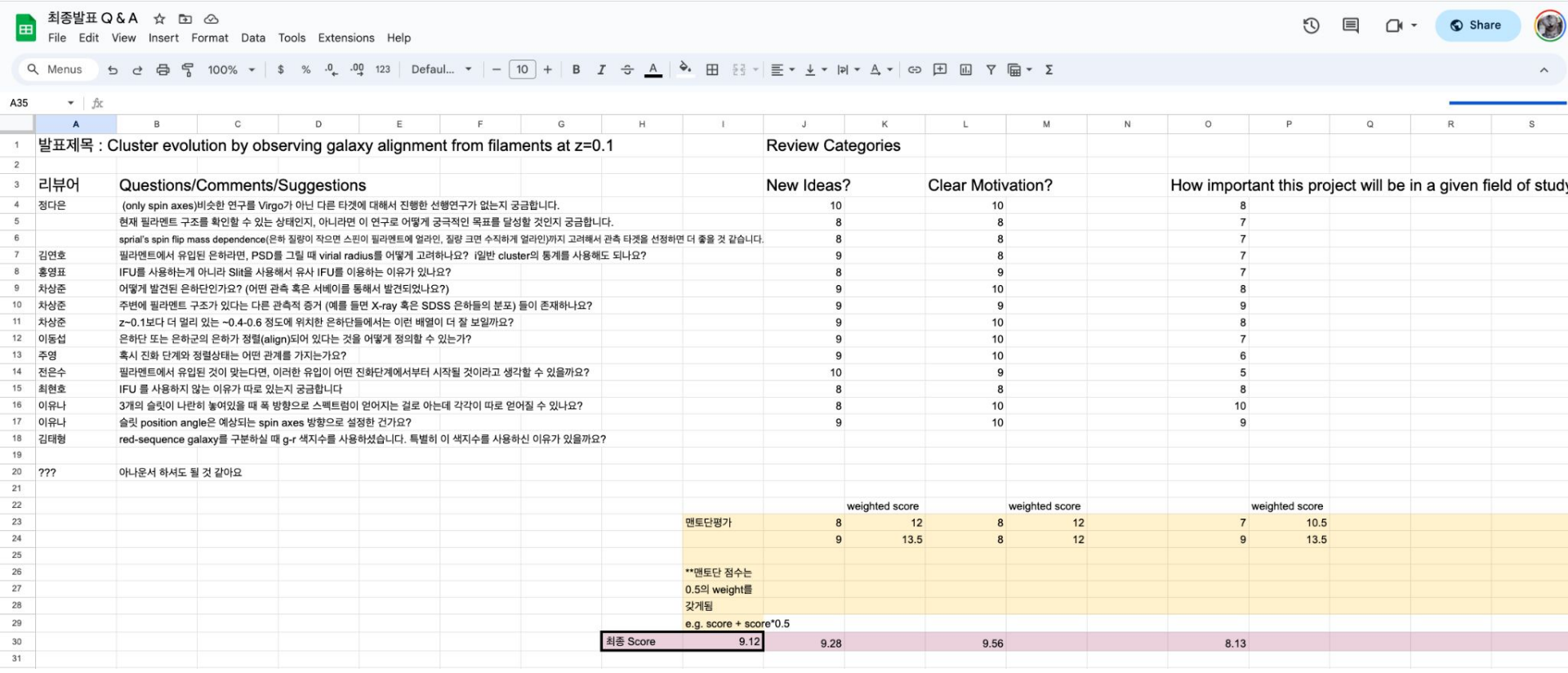


Peer Review / Mentors' Review 결과

	발표제목	Avg Score	Rank
발표1	Unusual high quiescent galaxy fraction of a high-z protocluster: Are they really quiescent?	7.61	6
발표2	Further Insight on Galaxy rotation curves at High redshifT with GNIRS (FIGHT with GNIRS!)	8.74	4
발표3	Atmospheric study of "Infant" exoplanet TOI-837 b in Neptune desert	8.97	3
발표4	Is there Primordial Mass Segregation in Young Massive Star Clusters?	8.07	5
발표5	Cluster evolution by observing galaxy alignment from filaments at z=0.1	9.12	2
발표6	From the Cluster to the Galaxy: Velocity Dispersions of Brightest Cluster Galaxies in the Merging Clusters	9.21	1



최종발표 Q & A

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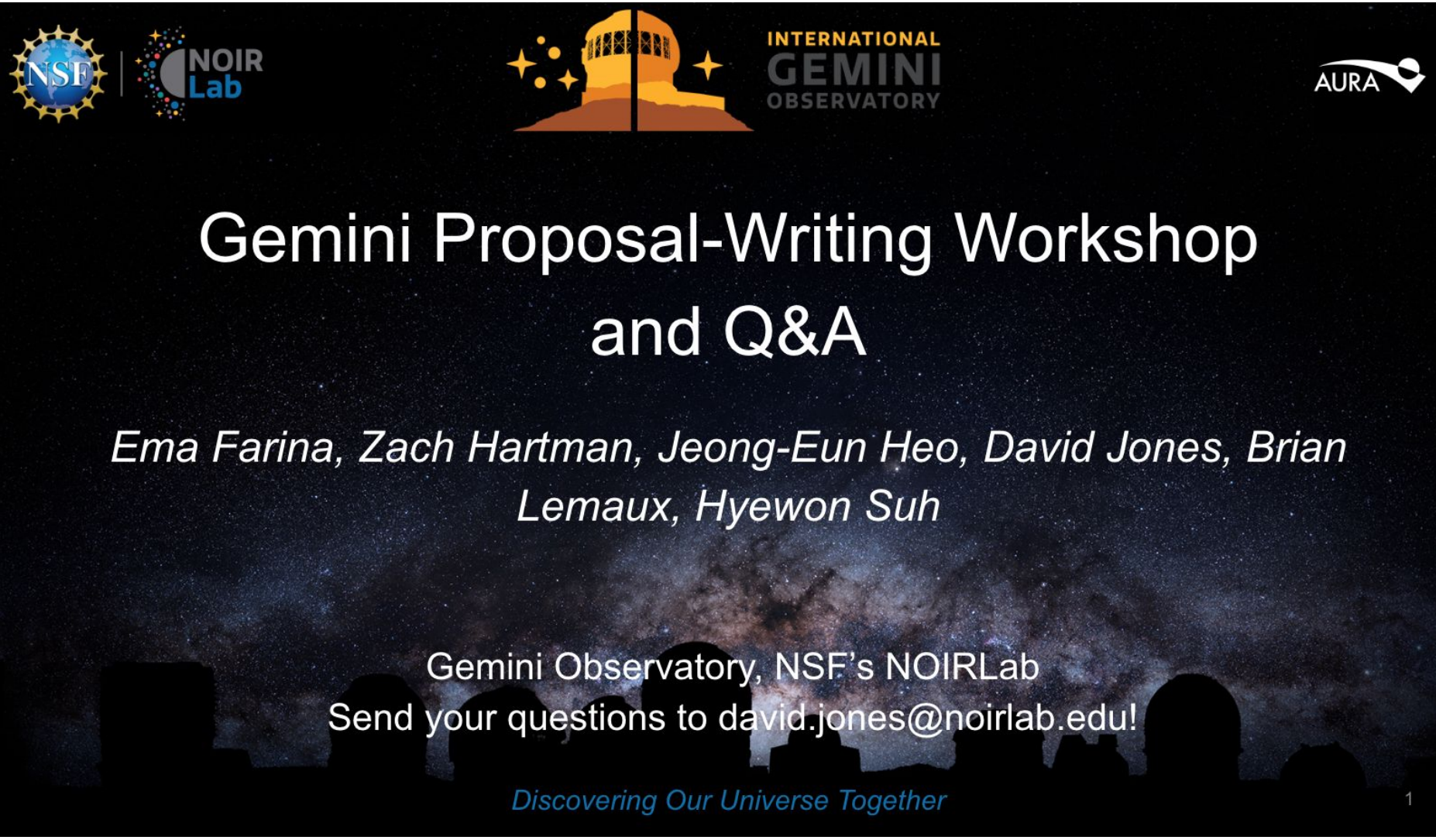
Share

A35

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	발표제목 : Cluster evolution by observing galaxy alignment from filaments at z=0.1									Review Categories									
2																			
3	리뷰어	Questions/Comments/Suggestions								New Ideas?		Clear Motivation?			How important this project will be in a given field of study				
4	정다은	(only spin axes)비슷한 연구를 Virgo가 아닌 다른 타겟에 대해서 진행한 선행연구가 없는지 궁금합니다.								10		10			8				
5		현재 필라멘트 구조를 확인할 수 있는 상태인지, 아니라면 이 연구로 어떻게 궁극적인 목표를 달성할 것인지 궁금합니다.								8		8			7				
6		sprial's spin flip mass dependence(은하 질량이 작으면 스핀이 필라멘트에 얼라인, 질량 크면 수직하게 얼라인)까지 고려해서 관측 타겟을 선정하면 더 좋을 것 같습니다.								8		8			7				
7	김연호	필라멘트에서 유입된 은하라면, PSD를 그릴 때 virial radius를 어떻게 고려하나요? i일반 cluster의 통계를 사용해도 되나요?								9		8			7				
8	홍영표	IFU를 사용하는게 아니라 Slit을 사용해서 유사 IFU를 이용하는 이유가 있나요?								8		9			7				
9	차상준	어떻게 발견된 은하단인가요? (어떤 관측 혹은 서베이를 통해서 발견되었나요?)								9		10			8				
10	차상준	주변에 필라멘트 구조가 있다는 다른 관측적 증거 (예를 들면 X-ray 혹은 SDSS 은하들의 분포) 들이 존재하나요?								9		9			9				
11	차상준	z~0.1보다 더 멀리 있는 ~0.4-0.6 정도에 위치한 은하단들에서는 이런 배열이 더 잘 보일까요?								9		10			8				
12	이동섭	은하단 또는 은하군의 은하가 정렬(align)되어 있다는 것을 어떻게 정의할 수 있는가?								9		10			7				
13	주영	혹시 진화 단계와 정렬상태는 어떤 관계를 가지는가요?								9		10			6				
14	전은수	필라멘트에서 유입된 것이 맞는다면, 이러한 유입이 어떤 진화단계에서부터 시작될 것이라고 생각할 수 있을까요?								10		9			5				
15	최현호	IFU 를 사용하지 않는 이유가 따로 있는지 궁금합니다								8		8			8				
16	이유나	3개의 슬릿이 나란히 놓여있을 때 폭 방향으로 스펙트럼이 얻어지는 걸로 아는데 각각이 따로 얻어질 수 있나요?								8		10			10				
17	이유나	슬릿 position angle은 예상되는 spin axes 방향으로 설정한 건가요?								9		10			9				
18	김태형	red-sequence galaxy를 구분하실 때 g-r 색지수를 사용하셨습니다. 특별히 이 색지수를 사용하신 이유가 있을까요?																	
19																			
20	???	아나운서 하셔도 될 것 같아요																	
21																			
22											weighted score		weighted score			weighted score			
23									맨토단평가	8	12	8	12		7	10.5			
24										9	13.5	8	12		9	13.5			
25																			
26									**맨토단 점수는										
27									0.5의 weight를										
28									갖게됨										
29									e.g. score + score*0.5										
30								최종 Score	9.12	9.28		9.56			8.13				
31																			

Gemini Webinar Series #2

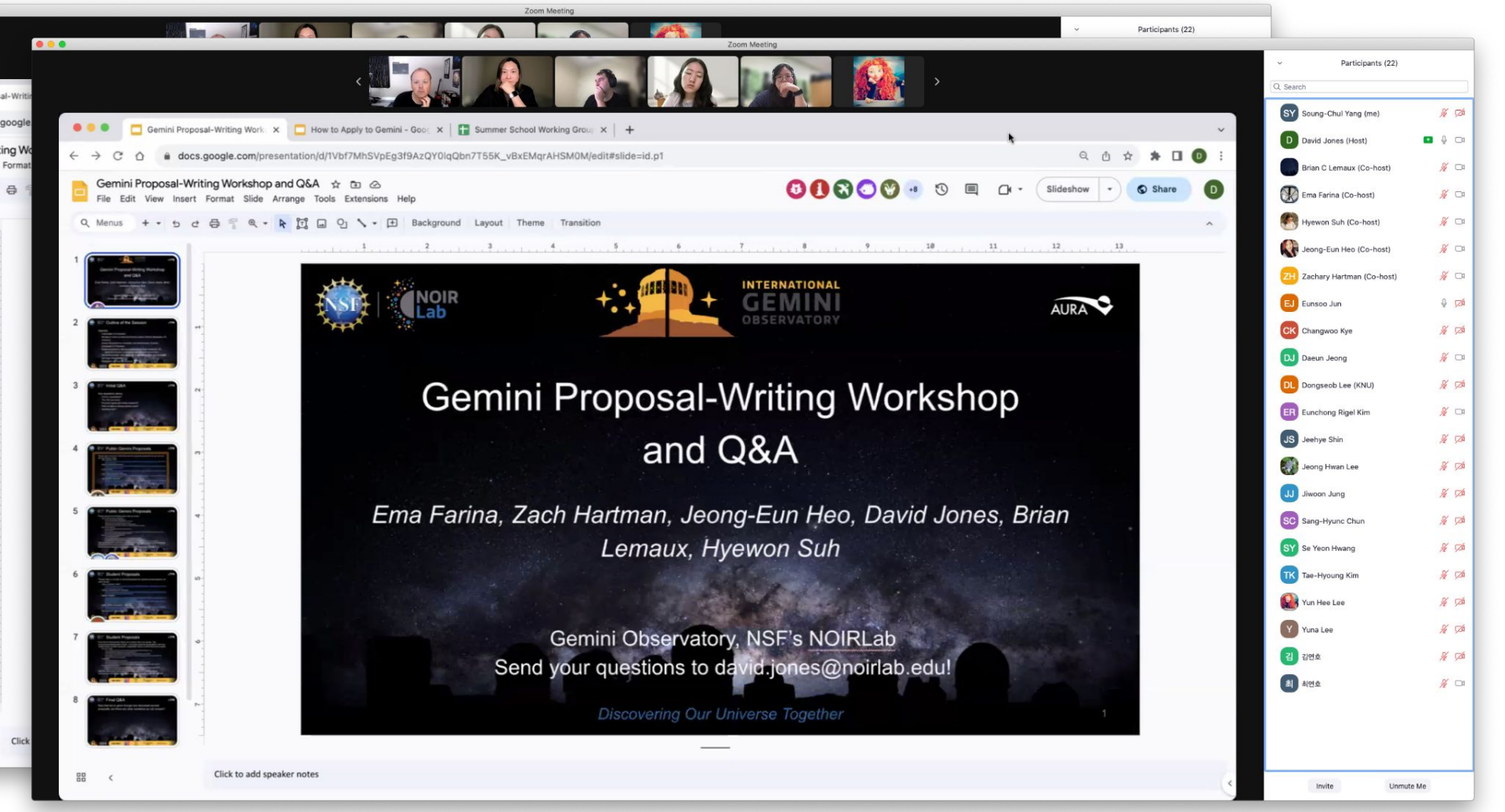
2023/8/30



Gemini Proposal-Writing Workshop and Q&A

Ema Farina, Zach Hartman, Jeong-Eun Heo, David Jones, Brian Lemaux, Hyewon Suh

Gemini Observatory, NSF's NOIRLab
Send your questions to david.jones@noirlab.edu!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Gemini Proposal-Writing Workshop and Q&A
Ema Farina, Zach Hartman, Jeong-Eun Heo, David Jones, Brian Lemaux, Hyewon Suh
Gemini Observatory, NSF's NOIRLab
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David Jones (Host)
Brian C Lemaux (Co-host)
Ema Farina (Co-host)
Hyewon Suh (Co-host)
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Jeong Hwan Lee
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Tae-Hyoung Kim
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Invite
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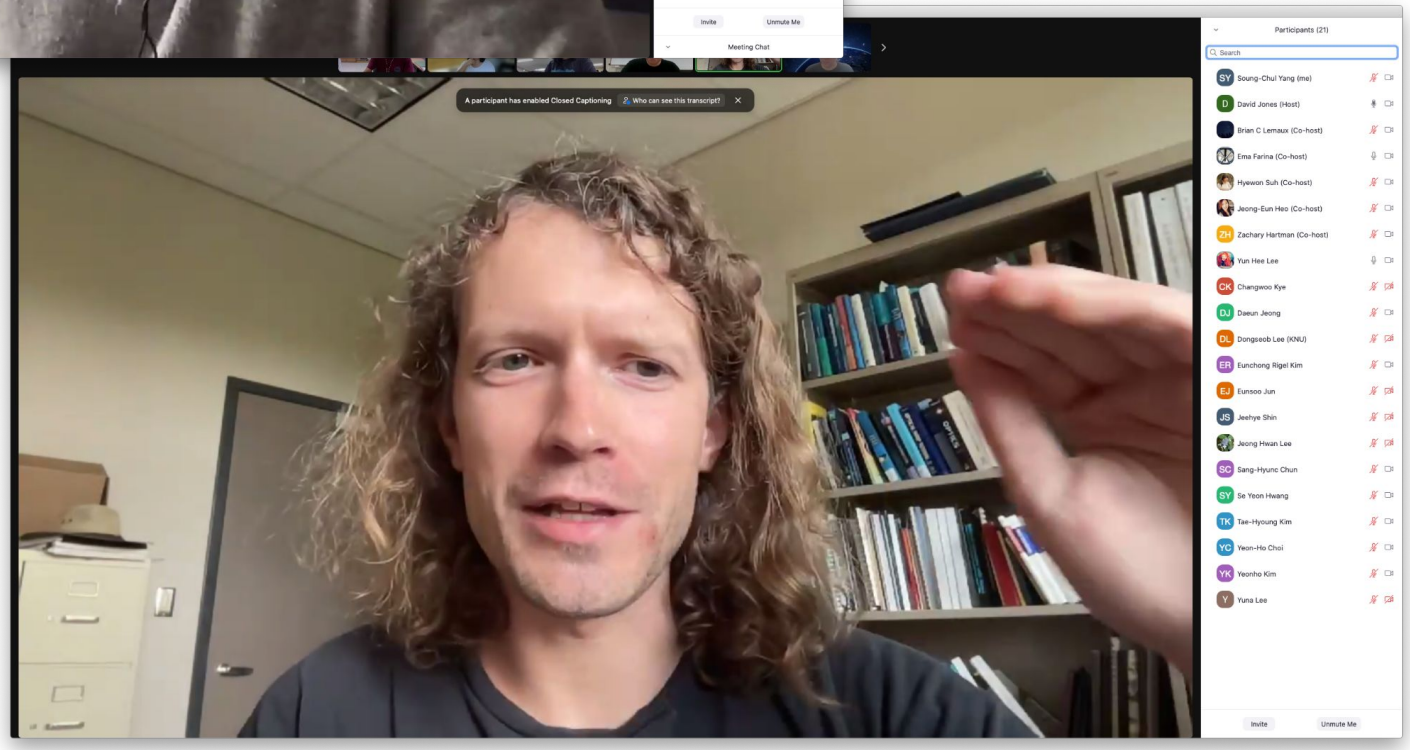
Meeting Chat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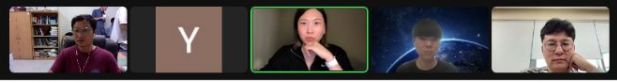
Zoom Meeting



Note / K-GMT Gemini proposal workshop

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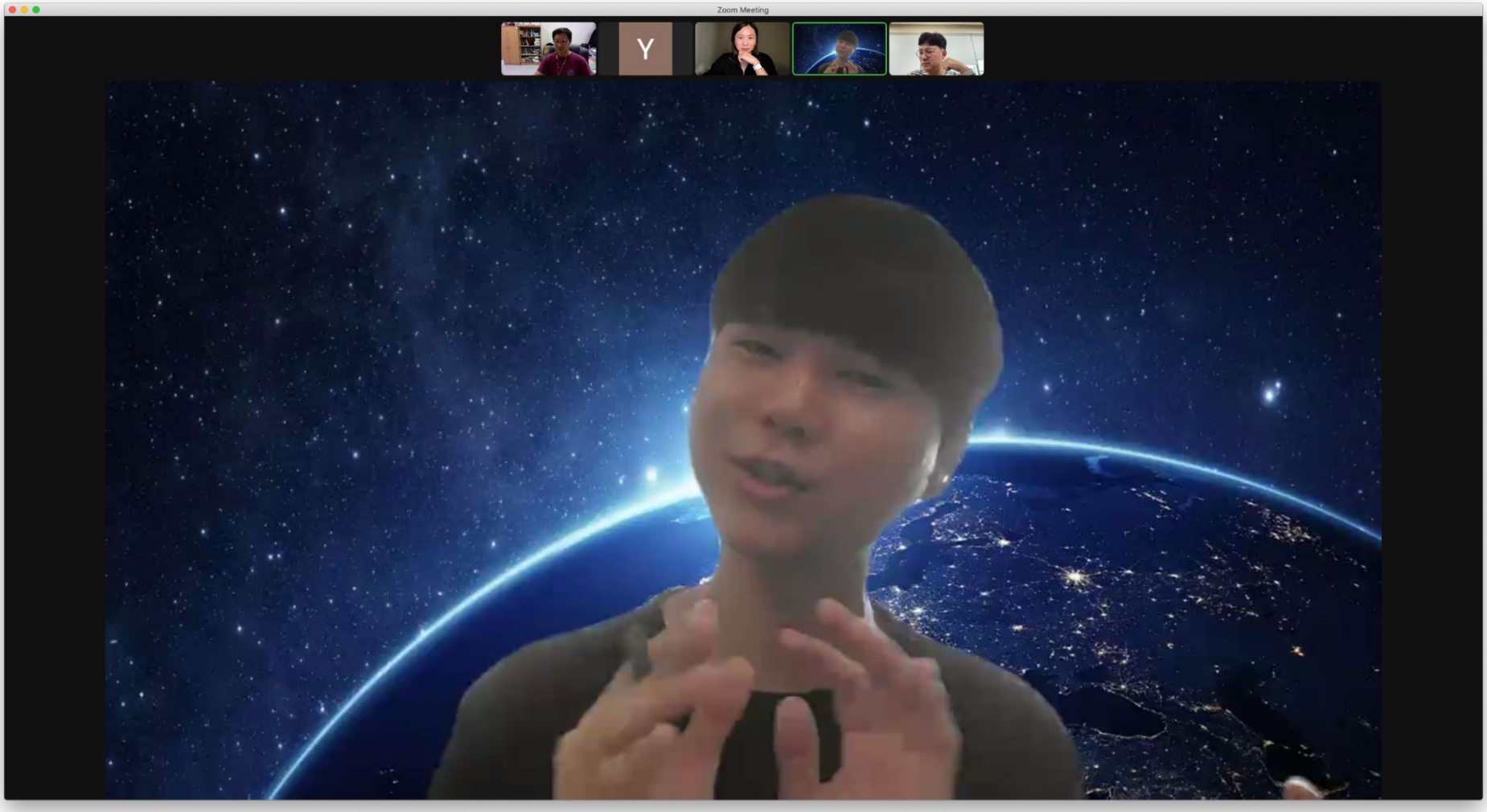
K-GMT2023_star.pdf 2520.2KB

- List

Group 4. **Is there Primordial Mass Segregation in Young Massive Star Clusters?**

- They propose to perform high-resolution imaging of 8 young massive star clusters. Their main goal is to probe the presence of primordial mass segregation within these clusters. This involves determining the age and effective radius of each cluster and examining whether the cumulative distribution function shows the signs of primordial mass segregation.
- Background/Aim
  - The implication of identifying primordial mass segregation in YMC remain unclear. The proposal should clarify the broader significance of this finding and how it contributes to a larger astrophysical problem (big picture).
- Target selection
  - Further clarification is needed about the criteria used to select these specific targets.
  - Is the observation focused solely on clusters in LMC? If so, the reason for this choice should be explained.
- Method:
  - The proposal should provide more detailed justification for the requirement of AO. Instead of a general statement 'Resolving power is high enough~', the proposal should specify precise values for the required resolving power and elaborate on why other instrument (F2 imaging) do not meet these requirements.
  - While they mention that 'dithering is needed' to fill the gap of CCDs, it lacks a description of the dithering strategy. Was it considered to set the number of frames?
  - They need to specify how they calculate the exposure time (60s/10s) and why the requested number of frames are needed (20/6). ITC results should be attached.
  - It sounds like challenging to get ~15hrs of GSAOI run. It might be worth considering a minimum time request with a reduced number of frames or fewer targets.


Zoom Meeting
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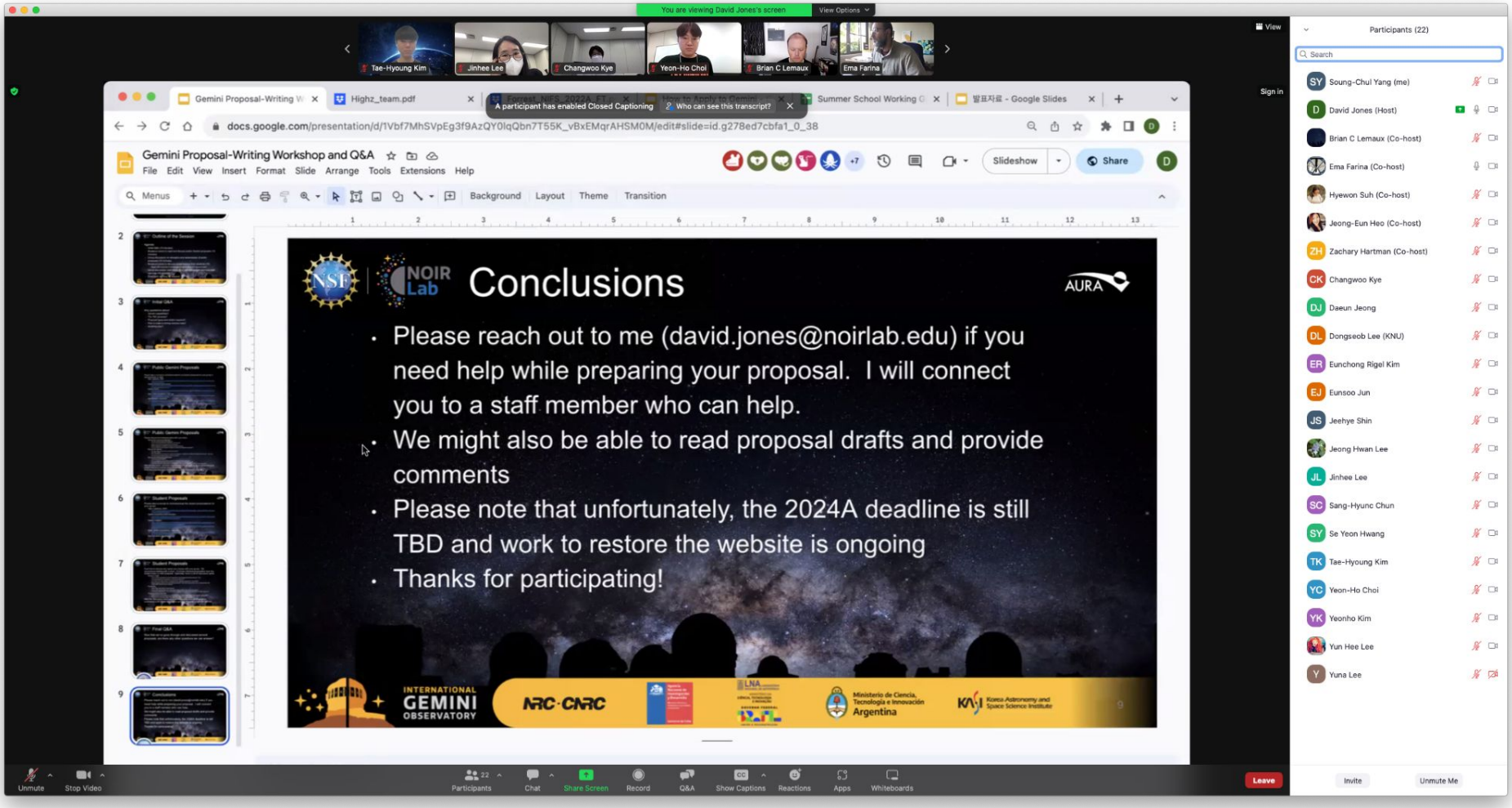
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Conclusions
Please reach out to me (david.jones@noirlab.edu) if you need help while preparing your proposal. I will connect you to a staff member who can help.
We might also be able to read proposal drafts and provide comments
Please note that unfortunately, the 2024A deadline is still TBD and work to restore the website is ongoing
Thanks for participating!
INTERNATIONAL GEMINI OBSERVATORY
NRC·CNRC
Ministerio de Ciencia, Tecnología e Innovación Argentina
Korea Astronomy and Space Science Institute
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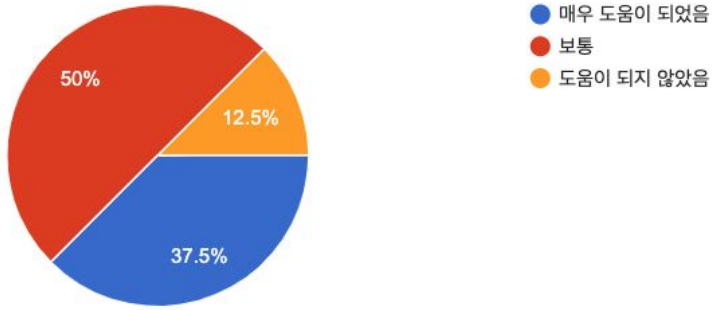
참가자 설문조사

사전과제에 대한 설문

사전과제가 여름학교강의 이해와 조별활동에 도움이 되었나요?

Copy

8 responses



사전과제의 분량과 난이도는 어땠나요?

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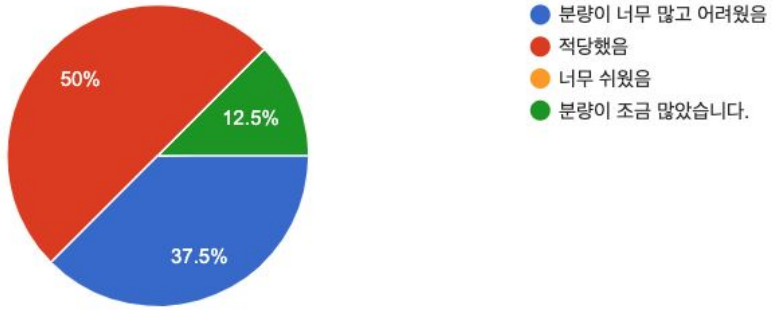
8 responses



참가자 설문조사

논문읽기 과제 이외에 어떤 형식의 사전과제가 더 도움이 될 것 같나요? 아이디어나 의견이 있으면 자유롭게 적어주세요.

4 responses

GMT 및 Gemini 기기에 대한 공부

성공적인 관측제안서 읽기도 좋을 것 같습니다.

프로포절 주제 생각해오기?

논문을 읽지 않아도 강의 내용을 충분히 이해할 수 있었던 것 같습니다! 저는 오히려 강의의 사전과제보다는 개별 팀미팅의 사전과제에서 우리의 프로포절에 관련된 논문들을 찾아보는 게 더 재밌었습니다. 논문 읽기의 사전과제외에 아이디어를 낸다면, 강의의 각각 주제에 대한 참석자들의 백그라운드를 조사하는 설문조사를 하고, 그것을 바탕으로 강연자분께서 강의를 준비하시면 강연자분과 참석자들에게 더 도움이 될 것 같습니다!! 개인적으로 저는 이번 여름학교에서 그동안 들어볼 기회가 많이 없었던 여러 주제에 대한 기초부터 다질 수 있어서 너무 좋았던 시간이었습니다.

참가자 설문조사

조별활동에 대한 설문

이번 여름학교 조별활동이 어떤 부분에서 도움이 되었나요?

Copy

8 responses



참가자 설문조사

위에 열거된 것 이외에 조별활동에서 좋았던 점들이 있었다면 자유롭게 적어주세요.

6 responses

여름학교 이후 협업할 수 있다는 것

새로운 사이언스를 이끌어내보는 경험을 해본것이 좋았다

저의 현재 위치를 깨달을 수 있어서 좋았습니다.

스쿨을 마친후 2차 웨비나에서 조별 결과물에 대해 Gemini staff 분들의 의견을 들을 수 있었던 부분이 특히 유익했습니다.

정말 이번 여름학교를 통해 위에 3가지를 전부 얻어갈 수 있었습니다. 추가로 그동안 관측에 경험이 없었던 저도 너무 훌륭하신 멘토님들과 조원들을 만난 덕분에 많은 것을 배워갈 수 있었습니다.

천문학을 전공하는 대학원생들을 많이 만나서 좋았습니다

조별활동에 아쉬운 점이 있었다면 어떤 것이었는지, 그리고 토론과 스터디 위주의 활동 이외에 조별활동이 어떤 방식으로 운영되면 좋을지 아이디어가 있으면 자유롭게 적어주세요.

2 responses

GMT 여름학교를 가기전부터 해야할게 너무 많아 겁먹었는데 생각해보니 사전과제가 공지된 시간이나, 팀별 활동이 시작된 시간들이 딱 적당했던 것 같습니다. 너무 짧지도, 너무 길지도 않고 좋았습니다. 조별활동에서 아쉬웠던 점은 없습니다.

강의 시간을 줄이고 조별활동 시간을 조금 더 늘리면 좋을 것 같습니다.

참가자 설문조사

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2024년도에는 Gemini Users' Meeting이 열릴 예정입니다. 참여하실 생각이 있으신가요?

8 responses



2025년에 열릴 제**11회** 여름학교의 형식과 다뤄졌으면 좋을 것 같은 내용에 대한 의견/아이디어가 있으면 자유롭게 적어주세요.

3 responses

관측제안서 예시를 보여주는 시간이 있으면 좋겠습니다.

기기 강의도 좋았지만, Gemini에 여러가지 기기가 있고, 홈페이지 설명을 읽으며 내 연구에 맞는 기기를 찾아가기가 매우 힘든 것 같습니다. Gemini 기기의 특징와 어떠한 연구들에 사용되었는지에 대한 예시 등을 다룬 기기 강의와 proposal 작성 과정도 소개되면 좋을 것 같습니다.

이번 프로포절 형식도 대찬성입니다. 그런데 여름학교내에서 직접 GMT의 데이터를 다뤄볼 수 있는 시간이 있었으면 더 좋을 것 같습니다. 이번 여름학교를 위해서 힘써주신 모든 분들께 감사드립니다!!


2023 제10회 거대마젤란망원경 여름학교
일자 | 2023.8.21(월)~25(금)
장소 | 더케이호텔 경주
주최 | 한국천문연구원
주관 | K-GMT 과학기기워킹그룹
GMT

한국 제미니천문대 운영팀

2018년 GEMINI 국제공동운영에 참여한 이후 KGO는 국내 연구자들의 GEMINI 활용 논문 창출에 기여하고 있습니다.

KOREAN GEMINI OFFICE

Korean Gemini Office (KGO) is

The **interface** for the Korean astronomical community to the **Gemini Observatory**.

We supports Gemini Users in Korea through the **all phases** of the astronomical **observing cycle**: proposal preparation, setting observing tool, monitoring observations, and getting data.

Breaking Down KGO Roles & Activities

- **Managing Call for Proposals**
  - Providing Technical Reviews to Time Allocation Committee
  - Supporting PIs for the preparation of their Observing Tool setting (i.e. Phase II Review)
  - Monitoring observations of Korean Gemini Programs (i.e. Phase III support)
- Being **the point of contact** to the Gemini correspondents
- Promoting **scientific & social communications** between K-GMT Science Program Users by organizing **Users meetings**
- We also are aiming to develop **our own science projects** using Gemini instruments!

2023 KGO members & other staffs relevant to the Gemini Operation

Soung-Chul Yang (KGO Head Scientist)



- *Representing KGO in the OpsWG*
- *Organizing Users Meeting/ K-GMT Summer School*
- *Support CfPs & Users*
- *Korean NCN member*

Eunchong Kim (KGO staff)



- *Support CfPs & Users*
- *Support Users Meeting/ K-GMT Summer School*

Ji Yeon Seok (KGO staff)



- *Parental leave*

Sang-Hyun Chun (KGO staff)



- *Support CfPs & Users*
- *Support Users Meeting/ K-GMT Summer School*

Narae Hwang



- *Gemini Board member/*
- *Gemini Finance Committee*

Jae-Joon Lee



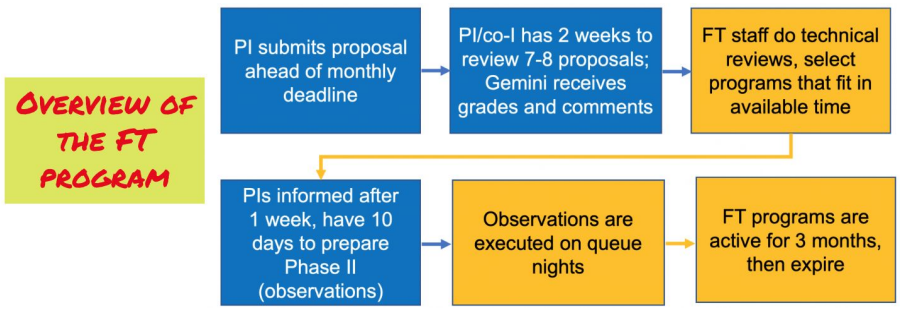
- *Organizing CfPs*
- *Gemini Science & Technology Advisory Committee*
- *IGRINS2 correspondant*

Proposal Routes Available to the Korean Users

	Regular Programs	Fast Turnaround	Director's Discretionary Time	Poor Weather	Large & Long Programs (Not yet available)
When	Once per semester	**Once per month**	**Anytime**	**Anytime**	Once per year
Review	National allocation committees	**Other proposers! (No TAC)**	**Chief Scientist**	**Head of Science Operation (SO)**	LLP Time Allocation committee
What for?	Routine programs	**Immediate, short and/or follow-up**	**Special opportunities**	**Bright targets**	Large allocation and/or multi-semester
Program lifetime	6 months (or potentially more for Band 1)	**3 months**	**Variable (usually ~6 months)**	**from approval to the end of the current semester**	From 2 to 6 semesters
Observing mode	Queue, classical, priority visitor	**Queue**	**Queue, Target of Opportunity**	**Queue**	Priority Visitor (Queue occasionally)

★Fast Turnaround

Available Time ~ 5 hrs on each telescope (~10 hrs in each semester)



DARP has been adopted since 2021 Feb.

★Poor Weather Program

Observing Conditions
CC = 70%, 80% or Any; IQ = Any; WV = Any

When ~100hrs of unexpected PW observations exist in the queue, no new ones are accepted until significant progress is made in the PW queue.

★Director's Discretionary Time

Available Time ~ up to 5% (~ 60 hrs) on each telescope for all
Competition Rate ~ 2 or 3 : 1
Chance of yielding a high-impact result is an important selection criteria

Thank You & Any Questions?