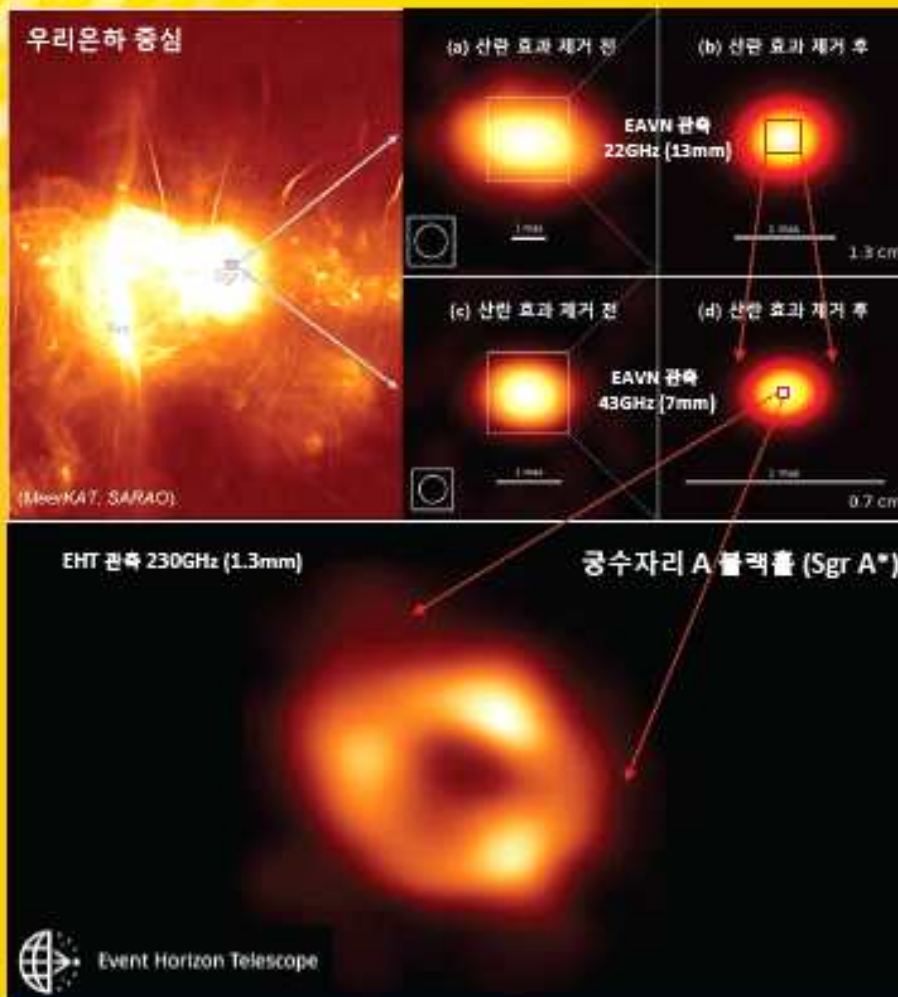


# 한국천문학회보

THE BULLETIN OF THE KOREAN ASTRONOMICAL SOCIETY



KASI is developing

## Next Generation High-Resolution IR spectrographs

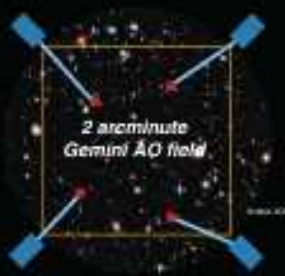
### GIRMOS

Gemini Infrared Multi-Object Spectrograph

Gemini North / LTAO



Object Selector  
4 objects simultaneously



NIR IFU  
w/ Mirror Slicer



Wavelength Range	0.95 - 2.4 $\mu\text{m}$
Spectral Resolution (R)	3,000 / 8,000
IFS FoV	1x1" / 2x2" / 4x4"
Spaxel Sampling	0.025" / 0.05" / 0.1"
Patrol Field	2' diameter

- The development of GIRMOS is being led by the University of Toronto (UoT) Dunlap's Prof. Suresh Sivanandam, and is being primarily funded through a Canadian Foundation for Innovation award.
- The commissioning of GIRMOS is expected in late 2027.

### MagNIFIES

Magellans' Near-Infrared Five-band Immersion grating Efficient Spectrograph

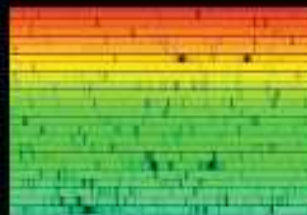
Magellan



Simultaneous 5 band coverage  
JHKLM: 1.08-5.4  $\mu\text{m}$



Long-slit Echelle w/  
Immersion Grating



Wavelength Range	1.08 - 5.4 $\mu\text{m}$
Spectral Resolution (R)	45,000 (1.08 - 2.45 $\mu\text{m}$ ) 60,000 (2.9 - 5.4 $\mu\text{m}$ )
Slit Dimension	0.36" x 5.5"
RV precision	< 50 m/sec

- KASI is a major contributor of MagNIFIES, together with University of Texas at Austin and Carnegie Institution for Sciences.
- MagNIFIES is scheduled for commissioning in 2027 and will be reconfigured for installation at GMT after approximately 5 years of science operation.

# 목 차

## <2023년도 봄 학술대회 학술발표 일정 및 발표논문 초록>

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### 표지사진:

우리은하 중심에 위치한 초대질량 블랙홀 Sgr A\* VLBI 관측 결과

(상) KVN/EAVN 22/43GHz 관측을 통해 밝혀진 Sgr A\* 원형 구조

(하) EHT 230GHz 관측을 통해 포착된 Sgr A\* 블랙홀 그림자

# 2023년 봄 제107차 한국천문학회 학술대회 등록 안내

## 1. 학술대회 개요

- (1) 일시 : 2023년 4월 12일 (수) ~ 4월 14일 (금)
- (2) 장소 : 라한호텔 전주
  - 구 두 발표 : 온고을홀, 기와마루홀, 와당적새홀
  - 포스터발표 : 지하1층 로비
- (3) 후원 : 전라북도, 전주시, 한국과학기술단체총연합회



## 2. 등록

- (1) 등록비  
정회원(일반) : 220,000원 / 정회원(학생)이하 : 150,000원 / 비회원 : 250,000원

- (2) 연회비  
연회비를 미납하신 회원은 아래 구좌로 송금하시거나 학회 당일 등록 장소에서 납부해 주십시오.  
은행구좌로 송금할 때 반드시 성함을 기재하여 주시기 바랍니다.  
정회원(일반) : 70,000원 / 정회원(학생) : 30,000원 / 준회원 : 30,000원  
회장 : 500,000원 / 부회장 : 300,000원 / 이사 : 150,000원  
※ 송금구좌: 468-25-0008-338 (국민은행) 예금주 : 사)한국천문학회  
※ 최근 2년간 연회비를 납부하지 않은 회원에게는 총회에서 투표권이 제한됩니다.

## 3. 회원 가입

회원가입을 원하시는 분은 등록장소에 비치되어 있는 입회원서를 작성하여 입회비와 함께 제출하시면 됩니다. [ 입회비: 정회원(10,000원) ]



## Membership Application Form of the Korean Astronomical Society

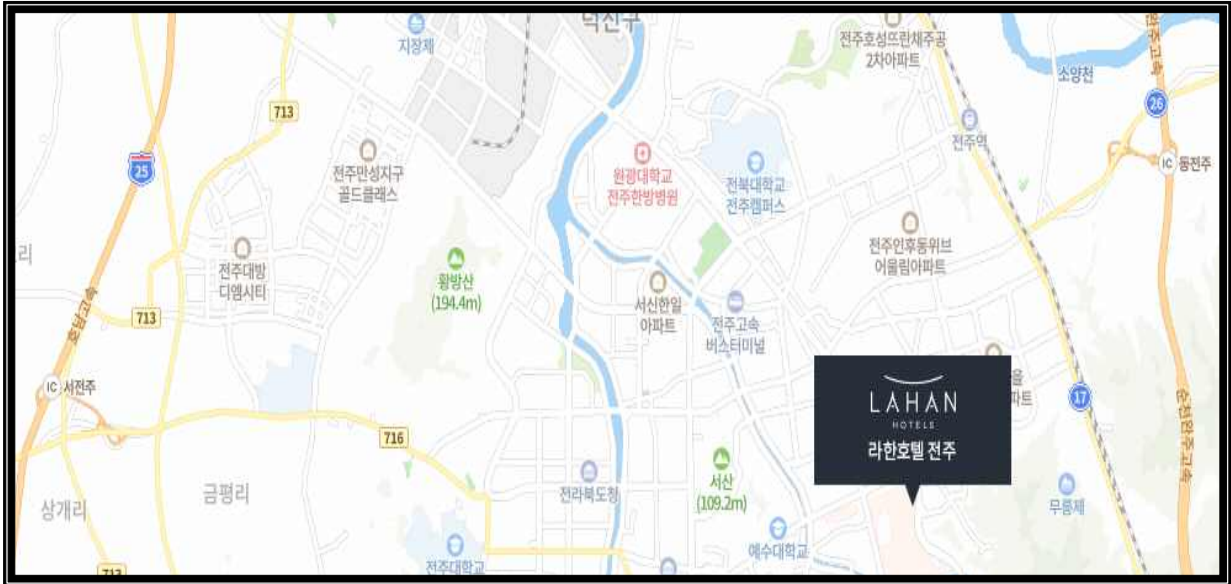
<b>Membership No.</b> (*For Office Use)				<b>Approved Date</b> (*For Office Use)			
<b>Name</b>				<b>Nationality</b>			
<b>Institution</b>							
<b>Date of Birth</b>	(yyyy-mm-dd)			<b>Gender</b>	M( ) F( )		
<b>Phone (Office)</b>			<b>Fax (Office)</b>			<b>e-mail</b>	
<b>Highest Degree Earned</b>	Bachelor	( )	Master	( )	PhD	( )	
	(Institution Degree Obtained From)					(Date Received)	
	(For Student)	Bachelor course( )	Master course( )	PhD Course( )			
<b>Areas of Primary Interest</b>	<input type="checkbox"/>	광학천문분과 / Division of UV/Optical/IR Astronomy					
	<input type="checkbox"/>	우주전파분과 / Space Warfare Division					
	<input type="checkbox"/>	태양우주환경분과 / Solar and Space Physics Division					
	<input type="checkbox"/>	행성계과학분과 / Planetary Science Division					
	<input type="checkbox"/>	여성분과 / Women's Division					
	<input type="checkbox"/>	한국젊은천문학자모임 / Young Astronomy Meeting					
	<input type="checkbox"/>	천문관측기기분과 / Astronomical Instrumentation Division					
<b>KAS Code of Ethics</b>	<input type="checkbox"/>	I have read and abide by the KAS code of Ethics					
<p>I would like to become a member of the Korean Astronomical Society(KAS) and I agree to abide by the rules and regulations of the KAS.</p> <p style="text-align: center;">Date : _____(yyyy-mm-dd)</p> <p style="text-align: center;">Signature : _____</p> <p>Recommender(signatures from TWO recommenders)<sup>1)</sup></p> <p>Affiliation _____ Name _____ Signature _____</p> <p>Affiliation _____ Name _____ Signature _____</p>							

1) Qualifications of a Recommender :

- assistant professor, associate professor, full professor or
- senior researcher, principal researcher or
- full member of the KAS for 10 years



## 위치 및 교통 안내



행사장안내	전북 전주시 완산구 기린대로 85 라한호텔(063-232-7000) 체크인 15:00 / 체크아웃 11:00
전주역 🗺️ 라한호텔	택시 : 10분소요 (비용 6,000원) 버스 : 541번, 119번 30분 소요

## 한국천문학회 모임 안내

- ◆ 태양우주환경분과 정기총회 개최
  - 1) 일 시 : 2023년 4월 13일 17시
  - 2) 장 소 : 제2발표장
  
- ◆ YAM 정기총회 개최
  - 1) 일 시 : 2023년 4월 13일 17시
  - 2) 장 소 : 제3발표장
  
- ◆ 여성분과 정기총회 개최
  - 1) 일 시 : 2023년 4월 13일 17시
  - 2) 장 소 : 와당적새홀
  
- ◆ DARWIN WORKSHOP
  - 1) 일 시 : 2022년 4월 14일 14시
  - 2) 장 소 : 와당적새홀

## 2023 KAS Spring Meeting 04.12

12:00~ 13:00	등록					
13:00~ 13:40	초청강연 1 : Jongho Park (박중호) [좌장: Jae-Young Kim]					
13:40~ 14:20	초청강연 2 : Jongbin Im (임종빈) [좌장: Ho-Gyu Lee]					
14:20~ 14:40	휴식시간					
발표장	제1발표장(온고을홀 A)		제2발표장(기와&마루홀)		제3발표장(온고을홀 B)	
시간표	[특] LSST [좌장 : Yujin Yang]		[특] SKA [좌장 : Dongsu Ryu]		천문우주관측기술 1 Astronomy & Space Science Technologies 1 [좌장: Chan Park]	
14:40~ 14:55	구LSST-01	Yun-Kyeong Sheen (신윤경)	구SKA-01	Bong Won Sohn (손봉원)	구AT-01	Seo-Won Chang (장서원)
14:55~ 15:10	구LSST-02	M. James Jee (지명국)	구SKA-02	Hyunwoo Kang (강현우)	구AT-02	Mankeun Jeong (정만근)
15:10~ 15:25	구LSST-03	Arman Shafieloo	구SKA-03	Se-Heon Oh (오세한)	구AT-03	Hojae Ahn (안호재)
15:25~ 15:40	구LSST-04	Minjin Kim (김민진)	구SKA-04	Hyesung Kang (강혜성)	구AT-04	Sumin Lee (이수민)
15:40~ 15:55	구LSST-05	H.-J. Lee (이희재)	구SKA-05	David Parkinson	구AT-05	Jimin Han (한지민)
15:55~ 16:10	구LSST-06	Narae Hwang (황나라)	구SKA-06	Kyungjin Ahn (안경진)		
16:10~ 16:30	휴식시간					
시간표	항성,항성계 / 외계행성 Stars, Star clusters / Exoplanets [좌장 : Sung-Chul Yoon]		태양우주환경 Sun and Space Environment [좌장 : Su-Chan Bong]		천문우주관측기술 2 Astronomy & Space Science Technologies 2 [좌장 : SunghoLee]	
16:30~ 16:45	박SA-01	Gu Lim (임구)	박SS-01	Sibaek Yi (이시백)	구AT-06	Muyoung Heo (허무영)
16:45~ 17:00					구AT-07	Ho Jin (진호)
17:00~ 17:15	구SA-02	Youngdae Lee (이영대)	구SS-02	Tetsuya Magara	구AT-08	Bongkon Moon (문봉곤)
17:15~ 17:30	구SA-03	Kiehun Bach (박기훈)	구SS-03	Yeon-Han Kim (김연한)	구AT-09	Shuangjing Xu
17:30~ 17:45	구SA-04	Dongwook Lim (임동욱)	구SS-04	Kiwan Park (박기완)	구AT-10	Sascha Trippe
17:45~ 18:00	구SA-05	Jaeheon Kim (김재현)	구SS-05	Donghui Son (손동희)	구AT-11	Narae Hwang (황나라)
18:00~ 18:15	구SA-06	Hyeonho Choi (최현호)	구SS-06	Yeonwoo Jang (장연우)		
18:30	2023년도 제1차 이사회					

## 2023 KAS Spring Meeting 04.13

09:30~ 10:10	초청강연 3 : Myung Gyoon Lee (이명균) [좌장: Sang Chul Kim]					
10:10~ 10:30	휴식시간					
<b>발표장</b>	<b>제1발표장(온고을홀 A)</b>		<b>제2발표장(기와&amp;마루홀)</b>		<b>제3발표장(온고을홀 B)</b>	
시간표	활동은하핵 Active Galactic Nuclei [좌장: Sang-Sung Lee]		우주론 / 암흑물질, 암흑에너지 Cosmology / Dark matter & dark energy [좌장 : Benjamin L'Huillier]		교육홍보 / 고천문학 / 천문역법 Astronomy Outreach and Education + Historical astronomy / Ephemeris [좌장 : In-Ok Song]	
10:30~ 10:45	구GC-01	Dohyeong Kim (김도형)	구CD-01	Wuhyun Sohn (손우현)	구AH-01	Hyunjin Shim (심현진)
10:45~ 11:00	구GC-02	Minchul Kam (감민철)	구CD-02	Sangwoo Park (박상우)	구AH-02	Jungjoo Sohn (손정주)
11:00~ 11:15	구GC-03	Jae-Young Kim (김재영)	구CD-03	Calderon Rodrigo	구AH-03	Minhee Hyun (현민희)
11:15~ 11:30	구GC-04	Sang-Hyun Kim (김상현)	구CD-04	Tae-Yong Lee (이태용)	구AH-04	Jeong Ae Lee (이정애)
11:30~ 11:45	구GC-05	Sree Oh (오슬희)	구CD-05	Chan Park (박찬)	구AH-05	Jiwon Park (박지원)
11:45~ 12:00	구GC-06	William Davison	구CD-06	Jaeun Kim (김재은)	구AH-06	Seung-Urn Choe (최승언)
12:00~ 12:15			구CD-07	Priya Goyal		
12:00~ 14:00	점심시간					
시간표	은하 진화 / 은하단 Galaxy evolution / Galaxy clusters [좌장 : Jubee Sohn]		고에너지 / 이론천문학 High energy astronomy / Theoretical astronomy [좌장 : Hongjun An]		성간물질 / 별생성 / 우리은하 1 Interstellar matter / Star formation / Milky Way Galaxy 1 [좌장 : Hyeong-Sik Yun]	
14:00~ 14:15	구GC-07	Yonghwi Kim (김용휘)	구HT-01	Ayan Bhattacharjee	구IM-01	Hee-Weon Yi (이희원)
14:15~ 14:30	구GC-08	Woorak Choi (최우락)	구HT-02	Donggeun Tak (탁동근)	구IM-02	Dayoung Pyo (표다영)
14:30~ 14:45	구GC-09	Kwang-Il Seon (선광일)	구HT-03	Jeonghbin Seo (서정빈)	구IM-03	Akshaya Subbanna
14:45~ 15:00	구GC-10	Bomi Park (박보미)	구HT-04	Soung-Chul Yang (양성철)	박IM-04	Rommy Aliste Castillo
15:00~ 15:15	구GC-11	Emanuele Contini				
15:15~ 15:30	구GC-12	Christoph Saulder			구IM-05	Hyosun Kim (김효선)
15:30~ 15:50	사진촬영					
15:50~ 16:20	개회식 및 시상					
16:20~ 17:00	초청강연 4 : ORBIT (궤도) [좌장 : Kang Hwan Lee]					
17:00~ 18:00	포스터발표 및 분과회의					
	[행사준비]	태양우주환경분과 총회			YAM분과 총회	
18:00	만찬					



## 2023 KAS Spring Meeting 04.14

09:20~ 10:00	초청강연 5 : Aletha De Witt [좌장 : Taehyun Jung]					
10:00~ 10:40	초청강연 6 : Soyeon Yi (이소연) [좌장 : Hong-Jin Yang]					
10:40~ 11:00	휴식시간					
<b>발표장</b>	<b>제1발표장(온고을홀 A)</b>		<b>제2발표장(기와&amp;마루홀)</b>		<b>제3발표장(온고을홀 B)</b>	
시간표	은하모의실험 Galaxy simulations [좌장: Jaehyun Lee]		[특] 7DT [좌장 : Seo-Won Chang]		성간물질 / 별생성 / 우리은하 2 Interstellar matter / Star formation / Milky Way Galaxy 2 [좌장 : Soung-Chul Yang]	
11:00~ 11:15	박GC-13	Jinsu Rhee (이진수)	구7DT-01	Myungshin Im (임명신)	구IM-06	Sohee Jang (장소희)
11:15~ 11:30			구7DT-02	Ji Hoon Kim (김지훈)	박IM-07	Eun-Jin Shin (신은진)
11:30~ 11:45	구GC-14	Sukyoung Yi (이석영)	구7DT-03	Gregory S.-H. Paek (백승학)		
11:45~ 12:00	구GC-15	San Han (한산)	구7DT-04	Seong-Kook J. Lee (이성국)	박IM-08	Seungsoo Hong (홍승수)
12:00~ 12:15	구GC-16	So-Myoung Park (박소명)	구7DT-05	Eunhee Ko (고은희)		
12:15~ 12:30	구GC-17	Jun-Sung Moon (문준성)		Q&A session		
12:30~ 12:40	우수포스터상 시상 및 폐회					

## Schedule of Poster Session 04. 12 ~ 14

POSTER SIZE : A0

분야	번호	이름		분야	번호	이름	
고에너지/ 이론천문학	PHT-01	Edwin J. Son	손재주	외부은하/ 은하단	PGC-01	Whee Yeon Cheong	정위연
고천문학/ 천문역법	PHE-01	Geoyoung-Han Yoo	유경한		PGC-02	Hyojeong Kim	김효정
	PHE-02	Hong soon Choi	최홍순		PGC-03	Jaehong Park	박재홍
교육홍보	PAE-01	Jeong Ae lee	이정애		PGC-04	Hyunjin Shim	심현진
	PAE-02	Sang Hyun Lee	이상현		PGC-05	Won-Hyeong Lee	이원형
천문우주 관측기술	PAT-01	Chung-Uk Lee	이충욱		PGC-06	Hayeong Jeong	정하영
	PAT-02	Hongjae Moon	문홍재		PGC-07	Gim Eun Taek	김은택
	PAT-03	Jeong Ae Lee	이정애		PGC-08	Sincheol Kang	강신철
	PAT-04	Young-Sik Kim	김영식		PGC-09	Seyeong Jeon	전세영
	PAT-05	Hwansun Kim	김환선		PGC-10	Jeong-Sun Hwang	황정선
태양계	PSS-01	Chae Kyung SIM	심채경		PGC-11	Jiyoung Choe	최지영
	PSS-02	Chae Kyung SIM	심채경		PGC-12	Dongseob Lee	이동섭
	PSS-03	Joo Hyeon Kim	김주현		PGC-13	Maxime Rey	
태양 우주환경	PSS-04	Gwangson Choe	최광선		PGC-14	Seung-Yeon Lee	이승연
	PSS-05	Dae Jung Yu	유대중		PGC-15	Chanwoo Song	송찬우
항성,항성계 /외계행성	PSA-01	Bon-Chul Koo	구본철		PGC-16	Joon Hyeop Lee	이준협
	PSA-02	Sol Yun	윤 솔		PGC-17	YooSik Kim	김유식
	PSA-03	Hak-Sub Kim	김학섭		PGC-18	Yeji Jo	조예지
	PSA-04	hyeon yong Choe	최현용		PGC-19	Byeongha Moon	문병하
	PSA-05	Se-Hyung Cho	조세형		PGC-20	Deokhyeong Lee	이덕형
	PSA-06	Beomdu Lim	임범두		PGC-21	Jeeun Hwang	황지은
	PSA-07	Dong-hwan Yoon	윤동환		PGC-22	Woowon Byun	변우원
특별세션3- LSST	PLSST-01	Jeehye Shin	신지혜		PGC-23	Yeonho Kim	김연호
	PLSST-02	Hong Soo Park	박홍수		PGC-24	Yunyi Choi	최윤이
	PLSST-03	Jae-Woo Kim	김재우				
	PLSST-04	Seok-Joo Joo	주석주	성간물질/ 별생성/ 우리은하	PIM-01	Namkung Siyeon	남궁시연
	PLSST-05	Sungryong Hong	홍성용		PIM-02	Hyeongsik Yun	윤형식
	PLSST-06	Min-Su Shin	신민수		PIM-03	Changmin Kim	김창민
	PLSST-07	Jae-Woo Kim	김재우		PIM-04	Cheonsu Kang	강천수
	PLSST-08	Seo-Won Chang	장서원		PIM-05	Han Gyeol Yun	윤한결
	PLSST-09	Min-Su Shin	신민수		PIM-06	Daniel Han	한다니엘

제1발표장 첫째날 : 04월 12일 (수)

12:00~13:00

등록

초청강연 1

좌장 : Jae-Young Kim(김재영)[KNU]

13:00~13:40 초 IT-01

Observing the Supermassive Black Hole at the Center of M87 using EHT and GMVA+ALMA  
Jongho Park(박종호)[KASI], Jae-Young Kim(김재영)[KNU], Do-Young Byun(변도영),  
Taehyun Jung(정태현)[KASI], on behalf of the GMVA+ALMA M87 collaboration team

초청강연 2

좌장 : Ho-Gyu Lee(이호규)[SPREC/KASI]

13:40~14:20 초 IT-02

Introduction of 4th Space Development Promotion Basic Plan and Establishing Space  
Exploration Roadmap

Jongbin Im(임종빈)[SPREC]

14:20~14:40 휴식시간

[특] LSST

좌장 : Yujin Yang(양유진)[KASI]

14:40~14:55 구 LSST-01

Catching Dynamic Universe and Pursuing the Unseen Universe

Yun-Kyeong Sheen(신윤경)[KASI], Galaxy Evolution Research Group  
in Optical Astronomy Division

14:55~15:10 구 LSST-02

From Pixels to Cosmology: Weak Gravitational Lensing with Vera Rubin Observatory's  
Legacy Survey of Space and Time

M. James Jee(지명국)[Yonsei University]

15:10~15:25 구 LSST-03

Cosmology with Rubin

Arman Shafieloo[KASI]

15:25~15:40 구 LSST-04

Active Galactic Nuclei Sciences with the LSST and Synergies with Multiwavelength  
Time-domain Survey

Minjin Kim(김민진)[KNU]

15:40~15:55 구 LSST-05

Potential Solar System Scientific Research in the LSST Era

Hee-Jae Lee(이희재), Youngmin JeongAhn(정안영민), Myung-Jin Kim(김명진)[KASI],  
Masateru Ishiguro[SNU]], Hong-Kyu Moon(문홍규)[KASI], Young-Jun Choi(최영준)[KASI/UST]

15:55~16:10 구 LSST-06

KASI In-Kind Contributions to Rubin/LSST Project

Narae Hwang(황나래), Min-Su Shin(신민수), Chang Hee Ree(이창희),  
Byeong-Gon Park(박병곤)[KASI]

16:10~16:30 휴식시간

- 16:30~17:00 박 SA-01  
The Progenitor System of Type Ia Supernova via Early-Time Observation using Small Telescope Network  
Gu Lim(임구)[PNU]
- 17:00~17:15 구 SA-02  
KSP-OT-201701a: Discovery of a Short-period and Unusually Helium-deficient Dwarf Nova  
Youngdae Lee(이영대)[CNU/KASI], Sang Chul Kim(김상철)[KASI/UST],  
Dae-Sik Moon(문대식)[University of Toronto], Hong Soo Park(박홍수)[KASI/UST],  
Maria R. Drout, Yuan Qi Ni[University of Toronto], Hyobin Im(임효빈)[KASI/UST]
- 17:15~17:30 구 SA-03  
3-D Photospheric Convection Simulations for Low-mass Zero-Age Main-Sequences  
Kiehunn Bach(박기훈), Yong-Cheol Kim(김용철)[Yonsei University]
- 17:30~17:45 구 SA-04  
Chemical composition of wide binaries observed with IGRINS  
Dongwook Lim(임동욱)[Yonsei University], Andreas Koch-Hansen[Heidelberg University],  
Seungsoo Hong(홍승수)[Yonsei University], Young-Wook Lee(이영욱)[Heidelberg University],  
Sang-Hyun Chun(천상현)[KASI]
- 17:45~18:00 구 SA-05  
KVN project: SMASTES (Simultaneous Multi-mAser Survey Toward Evolved Stars) - The beginning  
Jaeheon Kim(김재현)[KASI], Se-Hyung Cho(조세형)[SNU], Seong-Min Son(손성민), Bianca Els,  
Hyun Baek(백현), Kyung-Won Suh(서경원)[CBNU]
- 18:00~18:15 구 SA-06  
Constraint on the progenitor system and explosion mechanism of Type Ia supernova SN 2021aefx  
Hyeonho Choi(최현호), Myungshin Im(임명신), Gu Lim(임구), Gregory S.H. Paek(백승학),  
Sophia Kim(김소피아), Mankeun Jeong(정만근), Seo-Won Chang(장서원)[SNU], IMSNG Team

제2발표장 첫째날 : 04월 12일 (수)

12:00~13:00

등록

초청강연 1 (제1발표장)

좌장 : Jae-Young Kim(김재영)[KNU]

13:00~13:40 초 IT-01

Observing the Supermassive Black Hole at the Center of M87 using EHT and GMVA+ALMA  
Jongho Park(박종호)[KASI], Jae-Young Kim(김재영)[KNU], Do-Young Byun(변도영),  
Taehyun Jung(정태현)[KASI], on behalf of the GMVA+ALMA M87 collaboration team

초청강연 2 (제1발표장)

좌장 : Ho-Gyu Lee(이호규)[SPREC/KASI]

13:40~14:20 초 IT-02

Introduction of 4th Space Development Promotion Basic Plan and Establishing Space  
Exploration Roadmap

Jongbin Im(임종빈)[SPREC]

14:20~14:40 휴식시간

[특] SKA

좌장 : Dongsu Ryu(류동수)[UNIST]

14:40~14:55 구 SKA-01

Preparations for SKA participation in Korea

Bong Won Sohn(손봉원)[KASI]

14:55~15:10 구 SKA-02

Era of Hyper-Network, SRC(SKA Regional Center) Network

Hyunwoo Kang(강현우)[KASI]

15:10~15:25 구 SKA-03

Diffuse HI Gas around Nearby Galaxies in the Local Universe from FAST Observation

Se-Heon Oh(오세현)[Sejong University], Jing Wang, Dong Yang[Peking University]

15:25~15:40 구 SKA-04

Studies of radio emissions from galaxy clusters and the cosmic web in the SKA era

Hyesung Kang(강혜성)[PNU]

15:40~15:55 구 SKA-05

Cosmology with large area radio surveys

David Parkinson[KASI]

15:55~16:10 구 SKA-06

How Close are We to Observing the First Light from the Epoch of Reionization?

Kyungjin Ahn(안경진)[Chosun University]

16:10~16:30 휴식시간



- 16:30~17:00 박 SS-01  
A Novel Method for Reconstruction of Coronal Magnetic Fields Using a Poloidal-Toroidal Representation of Magnetic Field  
Sibaek Yi(이시백), Gwangson Choe(최광선)[Kyung Hee University]
- 17:00~17:15 구 SS-02  
Solar Atmospheric Heating Originating in a Magnetic Loop Emerging into the Solar Atmosphere  
Tetsuya Magara[KHU], Yeonwoo Jang(장연우), Donghui Son(손동희)[KHU]
- 17:15~17:30 구 SS-03  
Development of a diagnostic coronagraph on the ISS: CODEX progress report  
Yeon-Han Kim(김연환), Seonghwan Choi(최성환), Su-Chan Bong(봉수찬)[KASI],  
Kyungsuk Cho(조경석)[KASI/UST], Jeffrey Newmark, Nat. Gopalswamy[NASA],  
KASI-NASA Coronagraph Team
- 17:30~17:45 구 SS-04  
Turbulent Magnetic Diffusivity  $\beta$  effect in a Magnetically Forced System  
Kiwon Park(박기완), Myung-Ki Cheoun(천명기), Chang-Bae Kim(김창배)[Soongsil University]
- 17:45~18:00 구 SS-05  
A Comparative Analysis of Numerical Methods for Solving a 3D Self-Gravity Equation :  
Performance Evaluation in Single-Processing and Multi-Processing Systems using MPI and  
OpenMP  
Donghui Son(손동희), Yeonwoo Jang(장연우), Tetsuya Magara[KHU]
- 18:00~18:15 구 SS-06  
Quantitative characterization of active region magnetic structure based on the geometric  
property of force-free  $\alpha$   
Yeonwoo Jang(장연우), Sibaek Yi(이시백), Tetsuya Magara[KHU]

제3발표장 첫째날 : 04월 12일 (수)

12:00~13:00

등록

초청강연 1 (제1발표장)

좌장 : Jae-Young Kim(김재영)[KNU]

13:00~13:40 초 IT-01

Observing the Supermassive Black Hole at the Center of M87 using EHT and GMVA+ALMA  
Jongho Park(박종호)[KASI], Jae-Young Kim(김재영)[KNU], Do-Young Byun(변도영),  
Taehyun Jung(정태현)[KASI], on behalf of the GMVA+ALMA M87 collaboration team

초청강연 2 (제1발표장)

좌장 : Ho-Gyu Lee(이호규)[SPREC/KASI]

13:40~14:20 초 IT-02

Introduction of 4th Space Development Promotion Basic Plan and Establishing Space  
Exploration Roadmap

Jongbin Im(임종빈)[SPREC]

14:20~14:40 휴식시간

천문우주관측기술 1

Astronomy & Space Science Technologies 1

좌장 : Chan Park(박찬)[KASI]

14:40~14:55 구 AT-01

KMTNet Synoptic Survey of Southern Sky: Early Data Release Preparation (KS4 EDR)  
Seo-Won Chang(장서원), Mankeun Jeong(정만근)[SNU], Joonho Kim(김준호)[DNSM],  
Bomi Park(박보미), Sung Ho Jung(정승호), Myungshin Im(임명신)[SNU], KS4 collaborations

14:55~15:10 구 AT-02

Photometric Calibration and Source Catalog Construction of KMTNet Synoptic Survey of  
Southern Sky (KS4)

Mankeun Jeong(정만근), Myunshin Im(임명신), Seo-Won Chang(장서원)[SNU],  
Joonho Kim(김준호)[SNU/DNSM], Sunho Jung(정승호), Bomi Park(박보미)[SNU]

15:10~15:25 구 AT-03

Optical Design of a Mode Matching Telescope for Quantum-Entangled Beams in an EPR  
Squeezing Experiment

Hojae Ahn(안호재)[KHU], Seunghyuk Chang(장승혁)[CISS], Sumin Lee(이수민),  
Soojong Pak(박수종)[KHU], Chang-Hee Kim(김창희), Yunjong Kim(김윤종),  
Sungho Lee(이성호)[KASI], Sibilla Di Pace[INFN-Roma], Valeria Sequino,  
Martina De Laurentis[INFN-Napoli], Francesco De Marco[INFN-Roma],  
Fiodor Sorrentino[INFN-Genova]

15:25~15:40 구 AT-04

Optomechanics Design and Optical Alignment Method of the Mode Matching Telescope for  
the EPR Squeezing Experiment

Sumin Lee(이수민), Jimin Han(한지민), Hojae Ahn(안호재), Soojong Pak(박수종)[KHU],  
Chang-Hee Kim(김창희)[KASI], Sibilla Di Pace[INFN-Roma], Martina De  
Laurentis[INFN-Napoli], Seunghyuk Chang(장승혁)[CISS], Valeria Sequino[INFN-Napoli],  
Francesco De Marco[INFN-Roma], June Gyu Park(박준규)[Yonsei University], Yunjong  
Kim(김윤종), Sungho Lee(이성호)[KASI], Fiodor Sorrentino[INFN-Genova]

천문우주관측기술 1

Astronomy & Space Science Technologies 1

좌장 : Chan Park(박찬)[KASI]

15:40~15:55 구 AT-05

Method for Measuring Misalignment of Individual Optical Components Using CMM

Jimin Han(한지민), Hojae Ahn(안호재)[KHU], Joong Kyu Ham(함종규)[Hanbat University],  
Daewook Kim(김대욱)[University of Arizona], Geon Hee Kim(김근희)[Hanbat University],  
Sunwoo Lee(이선우)[KBSI], Woojin Park(박우진)[KASI], Daehan Jung(정대환)[KHU],  
Seung-Wook Park(박승욱)[LIG Nex1], Dae-Hee Lee(이대희)[KASI], Soojong Pak(박수종)[KHU]

16:10~16:30 휴식시간

천문우주관측기술 2

Astronomy & Space Science Technologies 2

좌장 : Sungho Lee(이성호)[KASI]

16:30~17:00 구 AT-06

Introduction to National Supercomputing Center for Astrophysics and Space Sciences in IBS

Muyoung Heo(허무영)[IBS]

16:45~17:00 구 AT-07

KMAG: initial observation and status

Ho Jin(진호), Khan-Hyuk Kim(김관혁)[KHU], Ian Garrick Bethell[U.C. Santa Cruz],  
Woojin Jo(조우진), Hyeonhu Park(박현후), Junhyun Lee(이준현)[KHU],  
Seul-Min Baek(백설민)[KASI]

17:00~17:15 구 AT-08

Preliminary mechanical design of GrainCams payload for the CLPS lunar rover

Bongkon Moon(문봉곤)[KASI], Woojin Kim(김우진)[KASI/SUT], Dukhang Lee(이덕행),  
Dae-Hee Lee(이대희), Minsup Jeong(정민섭), Jihun Kim(김지현), Seonghwan Choi(최성환),  
Min Bae Kim(김민배), Jehyuck Shin(신재혁)[KASI], Mingyeong Lee(이민경)[KASI/UST],  
ChaeKyung Sim(심채경)[KASI], Sungsoo S. Kim(김성수)[KHU], Young-jun Choi(최영준)[KASI]

17:15~17:30 구 AT-09

The First Geodetic VLBI Observation at 22/43/88/132 GHz with the KVN

Shuangjing Xu, Taehyun Jung(정태현)[KASI]

17:30~17:45 구 AT-10

Capella: A Space-only High-frequency Radio VLBI Network Formed by a Constellation of Small Satellites

Sascha Trippe[SNU]

17:45~18:00 구 AT-11

Large satellite constellations and their impacts on astronomy and the night sky

Narae Hwang(황나래)[KASI/IAU], Federico Di Vruno[IAU/SKA],  
Constance Walker[NOIRLab/IAU], Piero Benvenuti[IAU]

제1발표장 둘째날 : 04월 13일 (목)

초청강연 3

좌장 : Sang Chul Kim(김상철)[KASI]

09:30~10:10 초 IT-03

My GaLaxiEs and universE

Myung Gyoon Lee (이명균)[SNU]

10:10~10:30 휴식시간

활동은하핵

Active Galactic Nuclei

좌장 : Sang-Sung Lee(이상성)[KASI]

10:30~10:45 구 GC-01

New estimators of quasar Lbol and MBH with MIR continuum luminosities

Dohyeong Kim(김도형)[PNU], Myungshin Im(임명신)[SNU], Minjin Kim(김민진),  
Yongjun Kim(김용준)[KNU]

10:45~11:00 구 GC-02

Missing polarization problem of radio jet in NGC1275

Minchul Kam(감민철)[SNU], Jongho Park(박종호)[KASI], Sascha Trippe[SNU],  
Do-Young Byun(변도영)[KASI], Jeffrey Hodgson[Sejong University], Motoki Kino[Kogakuin  
University/NAOJ], Hiroshi Nagai[NAOJ/Graduate University], Andrew Fabian[University of  
Cambridge], Jeremy Sanders[Max Planck Institute], Taehyun Jung(정태현)[KAIS]

11:00~11:15 구 GC-03

RadioAstron Space VLBI Imaging of the jet in M87: I. Detection of high brightness  
temperature at 22 GHz

Jae-Young Kim(김재영)[KNU/Max Planck Institute], Tuomas Savolainen[Aalto University/Max  
Planck Institute], Peter Voitsik[Moscow Institute/Lebedev Physical Institute], Evgeniya V.  
Kravchenko[Lebedev Physical Institute, Mikhail M. Lisakov[Max Planck Institute/Lebedev  
Physical Institute], Yuri Y. Kovalev[Max Planck Institute/Lebedev Physical Institute/Moscow  
Institute], Hendrik Mueller[Max Planck Institute], Andrei P. Lobanov[Max Planck  
Institute/Moscow Institute], Kirill V. Sokolovsky[University of Illinois/Michigan State  
University/Moscow State University], Gabriele Bruni[INAF-Istituto di Astrofisica], Philip G.  
Edwards[CSIRO], Cormac Reynolds[CSIRO], Uwe Bach[Max Planck Institute], Leonid I.  
Gurvits[VLBI ERIC/Delf University], Thomas P. Krichbaum[Max Planck Institute], Kazuhiro  
Hada[NAOJ/The Graduate University], Marcello Giroletti, Monica Orienti[INAF Istituto di  
Radioastronomia], James M. Anderson[Leibniz Institute], Sang-Sung Lee(이상성),  
Bong Won Sohn(손봉원)[KASI], J. Anton Zensus[Max Planck Institute]

11:15~11:30 구 GC-04

External Compton Origin of the Gamma-ray Flares from the Jet of the Blazar CTA 102 in  
2016-2018

Sang-Hyun Kim(김상현), Sang-Sung Lee(이상성)[KASI/UST]

11:30~11:45 구 GC-05

Impact of AGN on ionised gas kinematics

Sree Oh(오슬희), Sukyoung Yi(이석영)[Yonsei University], the SAMI team

11:45~12:00 구 GC-06

Using Mutual Information for Time Delay Estimation in Reverberation Mapping

William Davison, David Parkinson[KASi/UST]

12:00~14:00

점심시간

제1발표장 둘째날 : 04월 13일 (목)

은하 진화/은하단

Galaxy evolution/Galaxy clusters

좌장 : Jubee Sohn(손주비)[SNU]

14:00~14:15 구 GC-07

Evolution of Magnetized Gas in Disk Galaxies and Its Applications to the Observed Spiral Structures

Yonghwi Kim(김용휘)[Yonsei University/KIAS]

14:15~14:30 구 GC-08

WISDOM Project - Giant Molecular Clouds in the Central Region of the Barred Spiral Galaxy NGC 5806

Woorak Choi(최우락)[Yonsei University, Lijie Liu[University of Denmark], Martin Bureau, Michele Cappellari[Oxford University], Timothy Davis[Cardiff University], Jindra Gensior[Zurich University], Fu-Heng Liang[Oxford University, Anan Lu[McGill University], Thomas Williams[Oxford University], Aeree Chung(정애리)[Yonsei University]

14:30~14:45 구 GC-09

Mg II Doublet Emission Line in Galactic Environments: The doublet ratio and escape fraction

Kwang-Il Seon(선광일)[KASI]

14:45~15:00 구 GC-10

KS4 Red Sequence Galaxy Cluster Survey at  $z \sim 0.2-0.4$

Bomi Park(박보미), Myungshin Im(임명신)[SNU], Joonho Kim[DNSM/SNU], Minhee Hyun(현민희)[KASI], Seong-Kook Lee(이성국)[SNU], Jae-Woo Kim(김재우)[KASI], Eunhee Ko(고은희)[SNU], KS4 team

15:00~15:15 구 GC-11

On The Origin And Evolution Of The Intra-Cluster Light: A Brief Review Of The Most Recent Developments.

Emanuele Contini[Yonsei University]

15:15~15:30 구 GC-12

Digging for red nuggets in DESI data

Christoph Saulder[KASI]

15:30~15:50 사진촬영

개회식 및 시상

- 개회사 : 박명구 한국천문학회 학회장
- 시상

15:50~16:20

- + 셋별상 : 김민수회원(세종대학교)
- + 윤희식 태양권천문학 박사연구 학술상 : 이시백회원(경희대학교)
- + 공로패 : 구본철회원(서울대학교), 김강민회원(한국천문연구원), 김석환회원(연세대학교), 박일흥회원(성균관대학교), 이명균회원(서울대학교), 최철성회원(한국천문연구원)

초청강연 4

좌장 : Kang Hwan Lee(이강환)[SNU/IPK]

16:20~17:00 초 IT-04

What use is science communication?

Orbit(궤도)[Unrealscience]

17:00~18:00 포스터 발표

18:00~20:30 만찬



제2발표장 둘째날 : 04월 13일 (목)

초청강연 3 (제1발표장)

좌장 : Sang Chul Kim(김상철)[KASI]

09:30~10:10 초 IT-03

My GaLaxiEs and universE

Myung Gyoon Lee (이명균)[SNU]

10:10~10:30 휴식시간

우주론/암흑물질, 암흑에너지  
Cosmology/Dark matter & dark energy

좌장 : Benjamin L'Huillier[Sejong University]

10:30~10:45 구 CD-01

Search for primordial oscillations in the CMB power spectrum and bispectrum

Wuhyun Sohn(손우현), Arman Shafieloo[KASI], Dhiraj K. Hazra[Homi Bhabha National Institute/INAF/OAS], Akhil Antony[Homi Bhabha National Institute]

10:45~11:00 구 CD-02

Om3 test of  $\Lambda$ CDM with eBOSS data

Sangwoo Park(박상우), Arman Shafieloo[KASI], Varun Sahni[IUCAA], Alexei A. Starobinsky[L. D. Landau Institute]

11:00~11:15 구 CD-03

Joint reconstructions of growth and expansion histories with minimal assumptions

Rodrigo Calderón[KASI], Benjamin L'Huillier[Sejong University], David Polarski[Montpellier University], Arman Shafieloo[KASI], A. A. Starobinsky[Montpellier University]

11:15~11:30 구 CD-04

Zero-metallicity hypernova signature in the Sculptor dwarf galaxy

Tae-Yong Lee(이태용), Myoungwon Jeon(전명원)[KHU]

11:30~11:45 구 CD-05

Constructing Black Hole Dominated Universe Model by Numerical Relativity

Chan Park(박찬)[IBS]

11:45~12:00 구 CD-06

Imprint of patchy reionization on ultra-faint dwarf galaxies

Jaeun Kim(김재은), Myoungwon Jeon(전명원)[KHU]

12:00~12:15 구 CD-07

Investigating the scale of cosmic homogeneity using multi-fractal analysis of SDSS Quasar distribution.

Priya Goyal[KIAS]

12:00~14:00

점심시간

제2발표장 둘째날 : 04월 13일 (목)

고에너지/이론천문학

High energy astronomy/Theoretical astronomy

좌장 : Hongjun An(안홍준)[CBNU]

14:00~14:15 구 HT-01

A Simulation Study of FR-I Jets: Structures and Dynamics

Ayan Bhattacharjee, Jeongbhin Seo(서정빈), Dongsu Ryu(류동수)[UNIST],  
Hyesung Kang(강혜성)[PNU]

14:15~14:30 구 HT-02

Multi-wavelength analysis on the early afterglow of the extremely bright GRB 221009A

Donggeun Tak(탁동근)[SNU]

14:30~14:45 구 HT-03

A New Magnetohydrodynamic Code with a High-Order Constrained Transport Scheme

Jeongbhin Seo(서정빈), Dongsu Ryu(류동수)[UNIST]

14:45~15:00 구 HT-04

2023 K-GMT Science Program Report

Soung-Chul Yang(양성철), Eun Chong Kim(김은총), Sang Hyun Chun(천상현),  
Ji Yeon Suk(석지연)[KASI]

15:30~15:50 사진촬영

개회식 및 시상 (제1발표장)

- 개회사 : 박명구 학회장

- 시상

15:50~16:20

+ 셋별상 : 김민수회원(세종대학교)

+ 윤희식 태양권천문학 박사연구 학술상 : 이시백회원(경희대학교)

+ 공로패 : 구분철회원(서울대학교), 김강민회원(한국천문연구원), 김석환회원(연세대학교),  
박일흥회원(성균관대학교), 이명균회원(서울대학교), 최철성회원(한국천문연구원)

초청강연 4 (제1발표장)

좌장 : Kang Hwan Lee(이강환)[SNU/IPK]

16:20~17:00 초 IT-04

What use is science communication?

Orbit(궤도)[Unrealscience]

17:00~18:00 분과회의 : 태양우주환경분과

17:00~18:00 포스터 발표

18:00~20:30 만찬

제3발표장 둘째날 : 04월 13일 (목)

초청강연 3 (제1발표장)

좌장 : Sang Chul Kim(김상철)[KASI]

09:30~10:10 초 IT-03

My GaLaxiEs and universE

Myung Gyoon Lee (이명균)[SNU]

10:10~10:30 휴식시간

교육홍보 / 고천문학/천문역법

Astronomy Outreach and Education

좌장 : In-Ok Song(송인옥)[KAIST]

Historical astronomy/Ephemeris

10:30~10:45 구 AH-01

Astronomy contents in the 2015, 2022 revised science curriculum

Hyunjin Shim(심현진)[KNU], Woojin Kwon(권우진)[SNU], Jungjoo Sohn(손정주)[KNUE],  
In-Ok Song(송인옥)[Korea Science Academy of KAIST], Jeong Ae Lee(이정애)[KASI]

10:45~11:00 구 AH-02

Development of an astronomy education program focused on the cultivation of data literacy

Jungjoo Sohn(손정주)[KNUE], Hyunjin Shim(심현진)[KHU], Chan-Kyong Park(박찬경)[JNU],  
In-Ok Song(송인옥)[Korea Science Academy of KAIST]

11:00~11:15 구 AH-03

The hitchhiker's guide for those who want to do public outreach activities in astronomy

Minhee Hyun(현민희)[KASI]

11:15~11:30 구 CD-04

Universal Universe, Necessity of Universal Designs for Science Education Program

Jeong Ae Lee(이정애), Sujin Kim(김수진)[KASI], Hojun Lee(이호준)[NCSC],  
Youngin Joh(조영인)[KASI], on behalf of Universal Universe

11:30~11:45 구 AH-05

The structure of Jeongnamilgu and its uses

Jiwon Park(박지원)[CBNU], Byunghee Mihn(민병희)[KASI/UST] Sanghyuk Kim(김상혁)[KASI],  
Yonggi Kim(김용기)[CBNU]

11:45~12:00 구 AH-06

The lunar movement model presented in the Yuè lí lì zhǐ of the Chóngzhēn lishū

Seung-Urn choe(최승은)[SNU/SIHA], Min-Jeong Kang(강민정)[ITKC]  
Myon U Lee(이민우)[CNUE], Yang, Hong-Jin(양홍진)[KASI]

12:00~14:00

점심시간

성간물질/별생성/우리은하 1

Interstellar matter/Star formation/Milky Way Galaxy 1

좌장 : Hyeong-Sik Yun(윤형식)[KASI]

14:00~14:15 구 IM-01

How stellar feedback affects star-forming activities in the  $\lambda$  Orionis cloud?

Hee-Weon Yi(이희원), Kee-Tae Kim(김기태)[KASI],

Tie Liu[Shanghai Astronomical Observatory], Jeong-Eun Lee(이정은)[SNU]

14:15~14:30 구 IM-02

9.7 $\mu$ m Methanol Ice Absorption towards Red Point-Like Objects in the Central Molecular Zone

Dayoung Pyo(표다영), Deokkeun An(안덕근)[Ewha Womans University], Kris Sellgren[Ohio State University], Solange V. Ramirez[Carnegie Observatories],

A. C. Adwin Boogert[University of Hawaii]

14:30~14:45 구 IM-03

Alignment and Disruption of Dust Grains at the Galactic Centre from Thermal Dust Polarization

M. S. Akshaya[KASI], Thiem Hoang[KASI/UST]

14:45~15:15 박 IM-04

A Near-Infrared [P II] and [Fe II] Line Survey of Supernova Remnants in the Magellanic Clouds

Rommy L. S. E. Aliste Castillo.[SNU]

15:15~15:30 구 IM-05

Variable star CW Leonis on Gemini telescope

Hyosun Kim(김효선)[KASI]

15:30~15:50 사진촬영

개회식 및 시상 (제1발표장)

- 개회사 : 박명구 학회장

- 시상

15:50~16:20

+ 셋별상 : 김민수회원(세종대학교)

+ 윤형식 태양권천문학 박사연구 학술상 : 이시백회원(경희대학교)

+ 공로패 : 구분철회원(서울대학교), 김강민회원(한국천문연구원), 김석환회원(연세대학교), 박일흥회원(성균관대학교), 이명균회원(서울대학교), 최철성회원(한국천문연구원)

초청강연 4 (제1발표장)

좌장 : Kang Hwan Lee(이강환)[SNU/IPK]

16:20~17:00 초 IT-04

What use is science communication?

Orbit(궤도)[Unrealscience]

17:00~18:00 분과회의 : YAM분과총회

17:00~18:00 포스터 발표

18:00~20:30 만찬

제1발표장 세째날 : 04월 14일 (금)

초청강연 4

좌장 : Taehyun Jung(정태현)[KASI]

09:20~10:00 초 IT-04

The Status and Direction of the K-band (24 GHz) Celestial Reference Frame

Aletha de Witt[SARAO]

초청강연 5

좌장 : Hong-Jin Yang(양홍진)[KASI]

10:00~10:40 초 IT-05

Mindfulness from Weightlessness

Soyeon Yi(이소연)[Noul]

10:40~11:00

휴식시간

은하 모의실험

Galaxy simulations

좌장 : Jaehyun Lee(이재현)[KIAS]

11:00~11:30 박 GC-13

On the evolution of galaxies in dense environments with cosmological hydrodynamic simulations

Jinsu Rhee(이진수)[Yonsei University]

11:30~11:45 구 GC-14

On the origin of the thick discs of spiral galaxies

Sukyong K. Yi(이석영), San Han(한산), J.K. Jang, Jinsu Rhee(이진수)[Yonsei University]

11:45~12:00 구 GC-15

Slope of velocity dispersion profiles of galaxies in cosmological hydrodynamic simulations

San Han(한산), Sree Oh(오슬희)[Yonsei University], Mina Pak(박민아)[KASI],  
Sukyong K. Yi(이석영)[Yonsei University]

12:00~12:15 구 GC-16

Galaxy Quenching with Mass Growth History of Galaxy Groups and Clusters: The Importance of Post-Processing

So-Myoung Park(박소명), Kyungwon Chun(천경원), Jihye Shin(신지혜), Hyunjin Jeong(정현진),  
Joon Hyeop Lee(이준협)[KASI], Mina Park(박민아)[KASI/Macquarie University/ASTRO 3D],  
Rory Smith[Federico Santa María Technical University], Jae-Woo Kim(김재우)[KASI]

12:15~12:30 구 GC-17

On the Origin of the Radius-Dependent Halo Spin Transition in the Cosmic Web

Jun-Sung Moon(문준성), Jounghun Lee(이정훈)[SNU]

12:30~12:40

우수포스터상 시상 및 폐회



제2발표장 세째날 : 04월 14일 (금)

초청강연 4 (제1발표장)

좌장 : Taehyun Jung(정태현)[KASI]

09:20~10:00 초 IT-04

The Status and Direction of the K-band (24 GHz) Celestial Reference Frame

Aletha de Witt[SARAO]

초청강연 5 (제1발표장)

좌장 : Hong-Jin Yang(양홍진)[KASI]

10:00~10:40 초 IT-05

Mindfulness from Weightlessness

Soyeon Yi(이소연)[Noul]

10:40~11:00

휴식시간

[특] 7DT

좌장 : Hyung Mok Lee(이형목)[SNU]

11:00~11:15 구 DT-01

7-Dimensional Sky Survey Overview

Myungshin Im(임명신)[SNU], 7DS Team

11:15~11:30 구 DT-02

7-Dimensional Telescope and its Operation Readiness for LVK O4 Run

Ji Hoon Kim(김지훈), Myungshin Im(임명신), Hyung Mok Lee(이형목)[SNU],  
Center for the Gravitational-Wave Universe

11:30~11:45 구 DT-03

Multi-Messenger Astronomy with 7DS

Gregory S.H. Paek(백승학), Myungshin Im(임명신), Ji-hoon Kim(김지훈)[SNU]

11:45~12:00 구 DT-04

Galaxy Stellar Population Parameter Estimation with 7DS

Seong-Kook Lee(이성국), Myungshin Im(임명신)[SNU], 7DT/7DS team

12:00~12:15 구 DT-05

Redshift Estimates with 7DS

Eunhee Ko(고은희), Myungshin Im(임명신)[SNU]

12:15~12:30

Q&A session

12:30~12:40

우수포스터상 시상 및 폐회

제3발표장 세째날 : 04월 14일 (금)

초청강연 4 (제1발표장)

좌장 : Taehyun Jung(정태현)[KASI]

09:20~10:00 초 IT-04

The Status and Direction of the K-band (24 GHz) Celestial Reference Frame

Aletha de Witt[SARAO]

초청강연 5 (제1발표장)

좌장 : Hong-Jin Yang(양홍진)[KASI]

10:00~10:40 초 IT-05

Mindfulness from Weightlessness

Soyeon Yi(이소연)[Noul]

10:40~11:00

휴식시간

성간물질/별생성/우리은하 2

Interstellar matter/Star formation/Milky Way Galaxy 2

좌장 : Soung-Chul Yang(양성철)[KASI]

11:00~11:15 구 IM-06

Multiple stellar populations of globular clusters from wide-field ground-based photometry

Sohee Jang(장소희), Young-Wook Lee(이영욱)[Yonsei University],

A. P. Milone[Università di Padova], A. F. Marino[Vicolo dell'Osservatorio]

11:15~11:45 박 IM-07

Understanding of baryon cycle in and out of galaxies and how it correlates to the star formation in galaxy simulations

Eun-jin Shin(신은진), Ji-hoon Kim(김지훈)[SNU], Sandro Tacchella[University of Cambridge],

Boon Kiat Oh[University of Connecticut], Joohyun Lee(이주현)[University of Texas]

11:45~12:15 박 IM-08

Low-resolution Spectroscopic Study of Stellar Populations in Globular Clusters and the Milky Way Bulge

Seungsoo Hong(홍승수), Young-Wook Lee(이영욱)[Yonsei University]

12:30~12:40

우수포스터상 시상 및 폐회

포스터 발표

고에너지 / 이론천문학(High energy astronomy/Theoretical astronomy)

PHT-01

Fermionic Compact Objects in Horava-Lifshitz Gravity

Edwin J. Son(손재주)[NIMS], Kyungmin Kim(김경민)[Ewha Womans University],  
John J. Oh(오정근)[NIMS]

고천문학/천문역법(Historical astronomy/Ephemeris)

PHE-01

Analysys of Oserved Data of an Eight-Foot Gnomon

Geoyoung-Han Yoo(유경한)[CBNU], Byeong-Hee Min(민병희)[KASI/UST],  
Hong-Soon Choi(최홍순), Yong-gi Kim(김용기)[CBNU]

PHE-02

A Study on the 3D Model of Nam, Byeong- Cheol Armillary Sphere

Hong-Soon Choi(최홍순), Geoyoung-Han Yoo(유경한)[CBNU],  
Byeong-Hee Min(민병희)[KASI/UST], Sang-Hyuk Kim(김상혁)[KASI],  
Kyoung-Uk Nam(남경욱)[GNSM], Yong-gi Kim(김용기)[CBNU]

교육홍보(Astronomy Outreach and Education)

PAE-01

Universal Universe, Universal Designs for Astronomical Observation

Jeong Ae Lee(이정애)[KASI], Hojun Lee(이호준)[NCSC], Sujin Kim(김수진),  
Youngin Cho(조영인)[KASI], on behalf of Universal Universe

PAE-02

Kyungnam Massier marathon

Sang Hyun Lee(이상현)[KASI/University of Ulsan],  
So Weol Lee(이소월)[Gaya Star Entertainment/KAA]

천문우주관측기술(Astrophysical Techniques)

PAT-01

Status and Plan of KMTNet Operation

Chung-Uk Lee(이충욱), Dong-Joo Lee(이동주), Dong-Jin Kim(김동진), Sang-Mok Cha(차상목),  
Yongseok Lee(이용석), Seung-Lee Kim(김승리), Hyunwoo Kang(강현우),  
Eon-Chang Sung(성언창), Moo-Young Chun(천무영), Jae-Woo Kim(김재우),  
Sungwook E. Hong(홍성욱), Seung-Cheol Bang(방승철), Hong Soo Park(박홍수),  
Sangmin Lee(이상민)[KASI]

PAT-02

Filter Transmission Curve for the Medium Band Filters

Hongjae Moon(문홍재), Myungshin Im(임명신)[SNU], Changsu Choi(최창수)[KASI],  
Gregory Paek, Hyeonho Choi(최현호), Jinguok Seo(서진국)[SNU]

PAT-03

KVNCS: 2. The fringe survey of new candidates for VLBI calibrators in the K band

Jeong Ae Lee(이정애)[KASI], Taehyun Jung(정태현), Bong Won Sohn(손봉원),  
Do-Young Byun(변도영)[KASI/UST]

PAT-04

KJCC Correlation status for EAVN

Young-Sik Kim(김영식), Se-Jin Oh(오세진), Dong-Kyu Jung(정동규), Jae-Hwan Yeom(염재환),  
Duk-Gyoo Roh(노덕규), Chungsik Oh(오충식), Hyo-Ryoung Kim(김효령), Jeong Ae Lee(이정애),  
Dong-Hwan Yoon(윤동환)[KASI]

## 포스터 발표

### 천문우주관측기술(Astrophysical Techniques)

PAT-05

Deep learning classification of Gravity wave transient noises using gravity wave auxiliary channel data

Whansun Kim(김환선), Edwin J. Son(손재주)[NIMS], Young-Min Kim(김영민)[UNIST]

### 태양계(Solar System)

PSS-01

Slope Distribution in the Topography of the Lunar Surface

Chae Kyung Sim(심채경)[KASI]

PSS-02

DALO: Science Payloads for CLPS Lunar Landers

Chae Kyung Sim(심채경), Young-Jun Choi(최영준), Dukhang Lee(이덕행),  
Seul-Min Baik(백슬민), Jehyuck Shin(신재혁)[KASI], Jongho Seon(선종호),  
Sungsoo S. Kim(김성수)[KHU], Minsup Jeong(정민섭)[KASI], Ho Jin(진호)[KHU],  
Sung-Joon Ye(예성준)[SNU]

PSS-03

The Direction of Korean Space Explorations after the Korean First Lunar Exploration, Danuri.

Joo Hyeon Kim(김주현)[KARI]

### 태양우주환경(Sun and Space Environment)

PSS-04

The Condition for the Standard Poloidal-Toroidal Representation of Magnetic Field

Gwangson Choe(최광선), Sibaek Yi(이시백), Minseon Lee(이민선)[KHU]

PSS-05

MHD sausage wave instability due to shear flow and viscosity in a compressional cylindrical plasma

Dae Jung Yu(유대중)[KHU]

### 항성, 항성계/외계행성(Stars, Star clusters/Exoplanets)

PSA-01

Exploring the He abundance of Circumstellar Clumps in Cassiopeia A Supernova Remnant

Bon-Chul Koo(구본철), Dongkok Kim(김동국), Sung-Chul Yoon(윤성철)[SNU],  
John C. Raymond[Harvard-Smithsonian Center]

PSA-02

Impacts of Existence of Planets on Chemical Properties of Their Host Stars

Sol Yun(윤솔), Berfin Togay[CNU], Young Sun Lee(이영선)[University of Notre Dame],  
Young Kwang Kim(김영광)[CNU]

PSA-03

Near-Infrared Approach to Multiple Populations of Globular Clusters using BOAO/KASINICS

Hak-Sub Kim(김학섭), Jae-Woo Lee(이재우)[Sejong University], Hyun-Il Sung(성현일),  
Taehyoung Kim(김태영)[KASI]

PSA-04

A Monte Carlo Study of the Diffusion Process of Thomson-Scattered Line Radiation in Phase Space

Hyeon Yong Choe(최현용), Hee-Won Lee(이희원)[Sejong University]

## 포스터 발표

### 항성, 항성계/외계행성(Stars, Star clusters/Exoplanets)

PSA-05

A study on the evolutionary process of late-type stars through maser observations

Se-Hyung Cho(조세형)[SNU/KASI], Jaeheon Kim(김재현)[KASI],  
Seong-Min Son(손성민)[CBNU/SNU], Bianca Els[CBNU], Hyun Baek(백현)[CBNU/SNU],  
Kyung-Won Suh(서경원)[CBNU]

PSA-06

A kinematic study of the mysterious nebulae around the magnetic O-type star HD 148937

Beomdu Lim(임범두)[Kongju National University], Yaël Nazé<sup>2</sup>, Damien Hutsemékers[Liege  
University,], Seok-Jun Chang(장석준)[Max Planck Institute ]

PSA-07

Simultaneous Time-monitoring Observations of H<sub>2</sub>O and SiO Masers toward the Supergiant  
VX Sagittarii

Dong-Hwan Yoon(윤동환)[KASI], Se-Hyung Cho(조세형)[SNU/KASI], Haneul Yang(양하늘),  
Youngjoo Yun(윤영주), Jaeheon Kim(김재현)[KASI]

### 특별세션3-LSST

PLSST-01

Photometric properties of dwarf galaxies in the NGC 3717 group newly discovered from  
the KMTNet Supernova Program

Jeehye Shin(신지혜), Hong Soo Park(박홍수), Sang Chul Kim(김상철)[KASI/UST],  
Youngdae Lee(이영대)[CNU], Dae-Sik Moon(문대식)[University of Toronto]

PLSST-02

Transient Search using Time-series Observations of LSST

Hong Soo Park(박홍수), Sang Chul Kim(김상철)[KASI/UST], Youngdae Lee(이영대)[CNU]

PLSST-03

Galaxy clusters with LSST in KASI

Jae-Woo Kim(김재우), Yun-Kyeong Sheen(신윤경), Jongwan Ko(고종완), Hyunjin Jeong(정현진),  
Joon Hyeop Lee(이준협), Jong Chul Lee(이종철), Hyowon Kim(김효원)[KASI],  
Jaewon Yoo(유재원)[KIAS]

PLSST-04

Detection and Characterization of Dwarf Galaxies in the Local Universe using LSST Data

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Soung-Chul Yang(양성철), Eon-Chang Sung(성언창), Hyunjin Jeong(정현진)[KASI],  
Jeehye Shin(신지혜)[KASI/UST]

PLSST-05

Big Data Technologies and Astronomical Research

Sungryong Hong(홍성용)[KASI]

PLSST-06

Machine Learning Applications for the LSST data

Min-Su Shin(신민수)[KASI]

PLSST-07

Korean In-Kind Contribution to the LSST with the KMTNet Telescopes

Jae-Woo Kim(김재우), Min-Su Shin(신민수), Chung-Uk Lee(이충욱),  
Seung-Lee Kim(김승리)[KASI]

PLSST-08

Korean Alert Processing System for the LSST Time-domain Science

Seo-Won Chang(장서원)[SNU], Min-Su Shin(신민수), Jae-Woo Kim(김재우)[KASI]

포스터 발표

특별세션3-LSST

PLSST-09

Korean In-Kind Contribution to the LSST with the Lite Independent Data Access Center  
Min-Su Shin(신민수), Chang Hee Ree(이창희)[KASI]

외부은하/은하단(External galaxies/Clusters of galaxies)

PGC-01

The KVN-Mopra Array: a dedicated mm global VLBI array at sub-mas resolution  
Whee Yeon Cheong(정위연)[UST/KASI], Sang-Sung Lee(이상성), Do-Young Byun(변도영)[KASI/UST], Hyeon-Woo Jeong(정현우), Sang-Hyun Kim(김상현)[UST/KASI]

PGC-02

On the evolution of satellite galaxies around Milky Way-like hosts in the NewHorizon simulation

Hyojeong Kim(김효정), Sukyoung K. Yi(이석영)[Yonsei University]

PGC-03

Efficient modeling of Lyman-alpha emitters in a large simulation box using an empirical approach.

Jaehong Park(박재홍), Changbom Park(박창범), Jaehyun Lee(이재현), Juhan Kim(김주한)[KIAS]

PGC-04

Updates of the JCMT/SCUBA2 850 $\mu$ m survey of the North Ecliptic Pole region : revised mosaic map and source catalog

Hyunjin Shim(심현진)[KNU], on behalf of the NEPSC2 team

PGC-05

Star formation and dust properties of NGC 628 through spatially resolved SED fitting

Won Hyeong Lee(이원형), Hyunjin Shim(심현진)[KNU]

PGC-06

The Simulated SPHEREx Spectra of Nearby Type 1 AGNs

Hayeong Jeong(정하영), Dohyeong Kim(김도형)[PNU]

PGC-07

Unsupervised Learning for Galactic Environments with the Variational Autoencoder

Eun-Taek Gim(김은택)[Yonsei University], Jun-Sung Moon(문준성)[SNU],  
Suk-Jin Yoon(윤석진)[Yonsei University]

PGC-08

The Wide Band Polarization and Faraday Rotation Properties of Blazars

Sincheol Kang(강신철)[KASI], Sang-Sung-Lee(이상성)[KASI/UST], Ivan Agudo[CSIC],  
Do-Young Byun(변도영), Sang-Hyun Kim(김상현), Whee Yeon Cheong(정위연),  
Hyun-Woo Jeong(정현우)[KASI/UST]

PGC-09

Surviving in Cluster: The origin of the intracluster light

Seyoung Jeon(전세영), Sukyoung K. Yi(이석영)[Yonsei University]

PGC-10

Impact of galaxy interactions on the redistribution of angular momentum

Jeong-Sun Hwang(황정선)[Jeonju University/GNUE], Changbom Park(박창범)[KIAS],  
Soo-hyeon Nam(남수현)[Korea University]

PGC-11

Searching for an effective stellar feedback model in high-resolution simulation during the reionization era

Jiyoung Choe(최지영), Taysun Kimm(김태선), Daniel Han(한다니엘)[Yonsei University],  
Martin P. Rey[University of Oxford], Jaehyun Lee(이재현)[KIAS]

포스터 발표

외부은하/은하단(External galaxies/Clusters of galaxies)

- PGC-12  
Effect of Interaction on FIR-Radio Correlation of Star-forming Galaxies  
Dongseob Lee(이동섭), Hyunjin Shim(심현진)[KNU]
- PGC-13  
Constraining feedback processes with the circum-galactic medium  
Maxime Rey[Yonsei University/Centre de Recherche Astrophysique de Lyon], Jeremy Blaizot, Joakim Rosdahl[Centre de Recherche Astrophysique de Lyon], Taysun Kimm(김태선)[Yonsei University]
- PGC-14  
Parsec-to-kpc scale VLBI imaging of the jet collimation region in a spiral DRAGN source 0313-192  
Seung-Yeon Lee(이승연)[KNU], Jae-Young Kim(김재영)[KNU/Max Planck Institute]
- PGC-15  
Construction of GALEX UV catalog of low redshift galaxies  
Chanwoo Song(송찬우)[Sogang University], Jongho Park(박종호)[KASI]
- PGC-16  
Age-Divided Mean Stellar Populations: Simplified Star Formation and Chemical Evolution History of a Galaxy using Full Spectrum Fitting  
Joon Hyeop Lee (이준협)[KASI], Mina Pak (박민아)[KASI/Macquarie University/ASTRO 3D], Hyunjin Jeong (정현진)[KASI], Sree Oh (오슬희)[Yonsei University/Australian National University/ASTRO 3D]
- PGC-17  
Multi-wavelength and VLBI study of a neutrino blazar 0735+178  
Yoo-Sik Kim(김유식), Jae-Young Kim(김재영)[KNU/Max Planck Institute]
- PGC-18  
Interferometric Monitoring of a Flat Spectrum Radio Quasar PKS 1222+216  
Ye-Ji Jo(조예지)[CNU] and Sang-Sung Lee(이상성)[KASI/UST]
- PGC-19  
The Properties of Galaxies within Lyman Alpha Blobs: Connections to the CGM  
Byeongha Moon(문병하), Yujin Yang(양유진)[KASI/UST], Ann Zabludoff[University of Arizona]
- PGC-20  
A study of the inner jet of M87 with new GMVA observation  
Deokhyeong Lee(이덕형)[KNU], Jae-Young Kim(김재영)[KNU/Max Planck Institute], the M87 collaboration
- PGC-21  
GALEX UV Catalog of Low-redshift Galaxies for Estimating Transient Rates  
Jeeun Hwang(황지은), Myungshin Im(임명신), Gregory S. H. Paek(백승학), Hyeonho Choi(최현호)[SNU], IMSNG team
- PGC-22  
Photometric Selection of Unobscured QSOs in the SEP field with KMTNet  
Woowon Byun(변우원)[KASI], Minjin Kim(김민진)[KNU], Yun-Kyeong Sheen(신윤경)[KASI], Dongseob Lee(이동섭)[KNU], Luis C. Ho[Peking University], Jongwan Ko(고종완), Kwang-Il Seon(선광일)[KASI/UST], Jong-Hak Woo(우종학), Donghoon Son(손동훈)[SNU], Hyunjin Shim(심현진)[KNU], Dohyeong Kim(김도형)[PNU], Yongjung Kim(김용정)[KNU], Hyunmi Song(송현미)[CNU], Joon Hyeop Lee(이준협), Hyunjin Jeong(정현진), Byeong-Gon Park(박병곤)[KASI], Sang Chul Kim(김상철)[KASI/UST], Yongseok Lee(이용석), Sang-Mok Cha(차상목)[KASI/KHU]

## 포스터 발표

### 외부은하/은하단(External galaxies/Clusters of galaxies)

PGC-23

The evolution of baryon fraction for cluster galaxies using FORNAX simulation

Yeonho Kim(김연호), Sukyoung K. Yi(이석영)[Yonsei University]

PGC-24

High  $z \sim 5$  Quasar Search via Deep Learning and Bayesian Information Criterion with Data from The Hyper Suprime-Cam SSP Survey PDR3

Yunyi Choi(최윤이), Myungshin Im(임명신), Suhyun Shin(신수현)[SNU]

### 성간물질/별생성/우리은하(ISM/Star Formation/Milky Way Galaxy)

PIM-01

Interferometric monitoring of a compact radio source Sgr A\* using Korean VLBI Network

Siyeon Namkung(남궁시연), Sumin Seong(성수민)[CNU], Sang-Sung Lee(이상성)[KASI/UST]

PIM-02

A Robust way to obtain kinematics-corrected spectra of the complex organic molecular (COMs) lines toward protostellar/protoplanetary sources

Hyeong-Sik Yun(윤형식)[KASI], Jeong-Eun Lee(이정은)[SNU]

PIM-03

Dynamical Properties of Nitrogen Enhanced Stars in the Galactic Halo

Changmin Kim(김창민)[CNU], Young Sun Lee(이영선), Young Kwang Kim(김영광)[CNU],

Timothy C. Beers[University of Notre Dame]

PIM-04

A Comparison of Two Star Formation Models in High-Redshift Dwarf Galaxies

Cheonsu Kang(강천수), Taysun Kimm(김태선), Daniel Han(한다니엘)[Yonsei University],

Harley Katz[University of Oxford]

PIM-05

Observability of the Vertical Shear Instability in Thermally-Stratified Disks

Han Gyeol Yun(윤한결)[SNU/University of Florida], Woong-Tae Kim(김웅태)[SNU],

Jaeahan Bae(배재한)[University of Florida]

PIM-06

Spatial decorrelation of young stars and molecular clouds in isolated disc galaxy simulations

Daniel Han(한다니엘), Taysun Kimm(김태선)[Yonsei University]





# 2023년도 봄 한국천문학회 학술대회

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