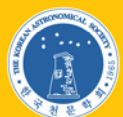
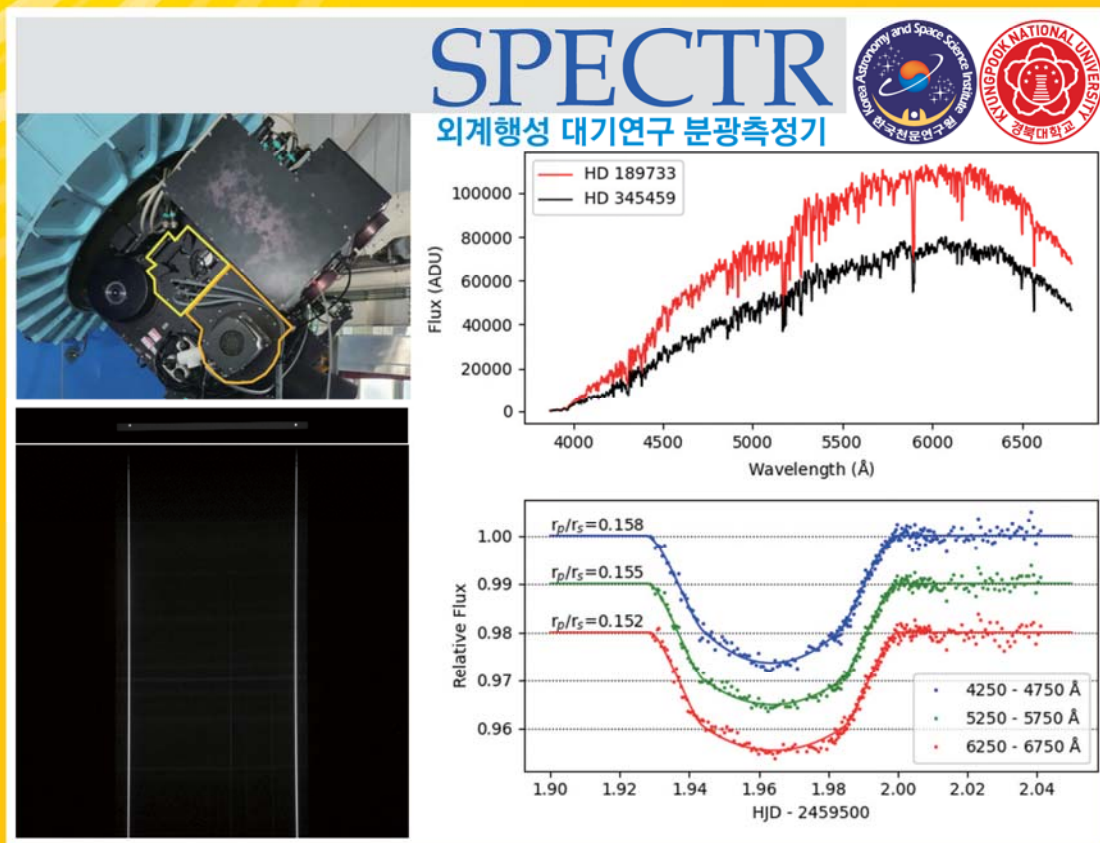


한국천문학회보

THE BULLETIN OF THE KOREAN ASTRONOMICAL SOCIETY



IGRINS & IGRINS-2

적외선 고분산 분광기 운영과 개발

한국천문연구원은 적외선고분산분광기 IGRINS를 2020년부터 Gemini South 천문대에서 활용 중이며, 2023년부터 Gemini North 천문대에서 운용할 IGRINS-2를 개발하고 있습니다.



IGRINS & IGRINS-2

- 0.34" x 5" Slit
- 분광분해능 R ~ 40,000
- 동시관측 파장 1.5 - 2.5 μm



IGRINS
WEBPAGE

목 차

<2022년도 봄 학술대회 학술발표 일정 및 발표논문 초록>

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표지사진:

외계행성계의 투과분광 및 정밀 분광측광에 최적화된 분광측광기 SPECTR. 보현산 1.8m 망원경 CIM에 카트리지 형태로 장착 가능하며(왼쪽 위), 관측 파장대는 3,800Å - 6,850Å, 분해능 $R > 400$ 이다. 슬릿의 길이가 10'이어서 대상 천체와 비교 천체를 동시에 관측하여(왼쪽 아래) 파장대별 정밀 측광이 가능하다. 외계행성계 HD 189733과 비교성을 동시 관측하여 스펙트럼(오른쪽 위)을 얻었고 이로부터 파장별 광도곡선(오른쪽 아래)을 결정하여 파장에 따른 외계행성의 반경 변화를 확인하였다.

2022년 봄 제105차 한국천문학회 학술대회 등록 안내

1. 학술대회 개요

(1) 일시 : 2022년 4월 13일 (수) ~ 4월 15일 (금)

(2) 장소 : 부산 BEXCO

- 구 두 발 표 : 컨벤션 홀 2층

- 포스터발표 : 컨벤션 홀 2층

(3) 후원 : 한국과학기술단체총연합회, BEXCO



2. 등록

(1) 등록비

정회원(일반) : 200,000원 / 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

Membership No. (※For Office Use)				Approved Date (※For Office Use)				
Name				Nationality				
Institution								
Date of Birth	(yyyy-mm-dd)			Gender	M() F()			
Phone (Office)			Fax (Office)			e-mail		
Highest Degree Earned	Bachelor	()		Master	()		PhD	()
	(Institution Degree Obtained From)						(Date Received)	
	(For Student)	Bachelor course()		Master course()		PhD Course()		
Areas of Primary Interest	<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						
KAS Code of Ethics	<input type="checkbox"/>	I have read and abide by the KAS code of Ethics						
<p>I would like to become a member of the Korea Astronomy 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)¹⁾</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

(<http://www.bexco.co.kr/kor/Contents.do?mCode=MN0073>)



한국천문학회 모임 안내

◆ 미리보는 'Women in Astronomy of IAU GA'

- 1) 일 시 : 2022년 4월 14일 12시
- 2) 장 소 : 제1발표장

◆ 태양우주환경분과 정기총회 개최

- 1) 일 시 : 2022년 4월 14일 16시
- 2) 장 소 : 제1발표장

◆ 젊은천문학사들의 모임 정기총회 개최

- 1) 일 시 : 2022년 4월 14일 16시
- 2) 장 소 : 제1발표장

2022 KAS Spring Meeting 04.13

13:00~14:00	등록	
14:00~14:20	개회사 축사 에스이랩-셋별상 시상	
시간표	초청강연 : 성변측후단자 UNESCO 세계기록유산 등재를 준비하며 [좌장 : Hyung Mok Lee]	
14:20~14:40	제1발표장	Invited talk 1-1 - Kyung Joon Lee
14:40~15:00		Invited talk 1-2 - Hong-Jin Yang
15:00~15:30	휴식시간	
시간표	특별 포럼 : 제4차 우주개발진흥 기본계획 우주탐사 분야 방향성 모색 [좌장 : Jongbin Im]	
15:30~15:50	주제발표	Ryun Young Kwon
panel	Young-Sil Kwak, Minsun Kim, Minjin Kim, Soojong Pak, Changwon Lee, Myungshin Im, Gwangson Choe, Young-Jun Choi, Woorak Choi	
15:50~16:20	패널토론1	국가적 가치/기술수준, 미래 국제 경쟁력을 고려한 향후 50년(100년) 국가 전략적 우주탐사 과학 임무
16:20~16:50	패널토론2	국내 기술 수준을 초과한 우주탐사 과학 임무-큰 보폭을 위한 국제 협력
16:50~17:20	패널토론3	국가 우주탐사 계획의 철학과 비전, 실현 방안-제5차 우주개발진흥 기본계획 준비
17:20~17:30	자유토론	

2022 KAS Spring Meeting 04.14

09:30~10:10	제1발표장 Invited talk 2 - Michael C. Nolan [좌장 : Youngmin JeongAhn]					
10:10~10:30	휴식시간					
발표장	제1발표장(205호)		제2발표장(201호)		제3발표장(203호)	
시간표	Active Galactic Nuclei 1 [좌장 : Dohyeong Kim]		Interstellar matter/Star formation [좌장 : Jihyun Kang]		[특] Apophis/Solar System [좌장 : Chae Kyung Sim]	
10:30~10:45	박GC-01	Junhyun Baek	구IM-01	Jaeyeong Kim	구AS-01	Myung-Jin Kim
10:45~11:00			구IM-02	Daniel Han	구AS-02	Youngmin JeongAhn
11:00~11:15	구GC-02	Hojin Cho	구IM-03	Jeong- Gyu Kim	구AS-03	Hee-Jae Lee
11:15~11:30	구GC-03	Sungyong Hwang	구IM-04	Sanghyuk Moon	구AS-04	Chang Hyun Baek
11:30~11:45	구GC-04	Yongjung Kim	구IM-05	Jihye Hwang	구AS-05	Jooyeon Geem
11:45~12:00	구GC-05	Daeseong Park	구IM-06	Woojin Kwon	구AS-06	Mingyeong Lee
12:00~13:30	점심시간					
	미리보는 'Women in Astronomy of IAU GA'					
시간표	AGN 2/ External Galaxies - Observation 1 [좌장 : Yun-Kyeong Sheen]		Cosmology [좌장 : Arman Shafieloo]		Sun [좌장 : Ryun Young Kwon]	
13:30~13:45	구GC-06	Kyuseok Oh	구CD-01	Chul Chung	구SS-01	Sibaek Yi
13:45~14:00	구GC-07	Hyunsung Jun	구CD-02	Rodrigo Calderon	구SS-02	Gwangson Choe
14:00~14:15	구GC-08	Emmanuel F. Ocran	구CD-03	Hanwool Koo	구SS-03	Hangbin Jo
14:15~14:30	박GC-09	Woowon Byun	구CD-04	Young Ju		
14:30~14:45			구CD-05	Benedict K. W. Bahr-Kalus		
14:45~15:00	구GC-10	Yun Hee Lee	구CD-06	Christoph Saulder		
15:00~15:20	사진촬영					
15:20~16:00	제1발표장 Invited talk 3 - Bon-Chul Koo [좌장: Jeong-Eun Lee]					
16:00~17:00	포스터발표 및 분과회의					
	태양우주환경분과		YAM			
시간표	External Galaxies - Observations 2 [좌장 : Seong-Kook Lee]		High energy astronomy/Theoretical astronomy [좌장 : Jungyeon Cho]		[특] Gravitational Wave Detection Technology [좌장 : Sungho Lee]	
17:00~17:15	박GC-11	Minhee Hyun	구HT-01	Ayan Bhattacharjee	구GWD-01	Kyung Ha Lee(18')
17:15~17:30			박HT-02	Jeongbhin Seo	구GWD-02	Chang Hee Kim(18')
17:30~17:45	구GC-12	Bomi Park			구GWD-03	June Gyu Park(18')
17:45~18:00	구GC-13	Eunhee Ko	박HT-03	Ji-Hoon Ha	구GWD-04	Sumin Lee(18')
18:00~18:15	구GC-14	Yongmin Yoon			구GWD-05	Young-Min Kim(18')
18:15~18:30	석GC-15	Shin-Jeong Kim	구HT-04	Kiwon Park		

2022 KAS Spring Meeting 04.15

09:30~10:10	제1발표장	Invited talk 4 - Myeong-Gu Park	[좌장 : Byeong-Gon Park]			
10:10~10:30	휴식시간					
발표장	제1 발표장(205호)		제2 발표장(201호)		제3 발표장(203호)	
시간표	Galaxy Simulations 1 [좌장 : Ji-hoon Kim]		Historical astronomy/Ephemerides/Astronomy Outreach and Education [좌장 : Hong-Jin Yang]		Astronomy & Space Science Technologies [좌장 : Woong-Seob Jeong]	
10:30~10:45	박GC-16	Yongseok Jo	구HE-01	Sang Hyuk Kim	구AT-01	Haeun Chung
10:45~11:00			구HE-02	Byeong-Hee Mihn	구AT-02	Changon Kim
11:00~11:15	구GC-17	Ena Choi	구HE-03	Seung-Urn Choe	구AT-03	Gregory S.H. Paek
11:15~11:30	구GC-18	Jaehong Park	구HE-04	Hyojun Lee	구AT-04	Seong-Heon Lee Dongjin Lee
11:30~11:45	구GC-19	Jaekyoung Jang	구HE-05	Jeong Ae Lee	구AT-05	Mankeun Jeong
11:45~12:00	구GC-20	Seyoung Jeon	구HE-06	Chang Hyun Baek	구AT-06	Tee-Geun Ji
12:00~13:30	점심시간					
시간표	Galaxy Simulations 2 [좌장 : Myoungwon Jeon]		Stars, Star Clusters/Exoplanets [좌장 : Sung-Chul Yoon]		Astronomy & Space Science Technologies [좌장 : Chan Park]	
13:30~13:45	구GC-21	Changbom Park	구SA-01	Jinhee Lee	구AT-07	Jongsoo Kim
13:45~14:00	구GC-22	Jaehyun Lee	구SA-02	Jeongyun Choi	구AT-08	MIngyeong Yang
14:00~14:15	구GC-23	Hannah Jhee	구SA-03	Seo-Won Chang	구AT-09	Hojae Ahn
14:15~14:30	구GC-24	Woorak Choi	구SA-04	Hyosun Kim	구AT-10	Myungshin Im
14:30~14:45	구GC-25	Eunyu Lee	구SA-05	Moo-Keon Jung		
14:45~15:00	구GC-26	Hyeseung Lee	구SA-06	Seong Hyun Park		
15:00~15:20	제1발표장	메타스페이스-우수포스터상 시상 및 폐회				

Schedule of Poster Session 04. 13 ~ 15

poster size : A0

분야	번호	이름	분야	번호	이름
고에너지/ 이론천문학	PHT-01	Sang In Kim	외부은하/ 은하단	PGC-01	Minsu Kim
	PHT-02	Sunjung Kim		PGC-02	Sang Hyun Kim
	PHT-03	Kwangmin Oh		PGC-03	Sungsoon Lim
고천문학/ 천문역법	PHA-01	Uhn Mee Bahk		PGC-04	Hyeon-Woo Jeong
교육홍보	PAE-01	Joonho Kim		PGC-05	Brian S. Cho
	PAE-02	Jaeil Cho		PGC-06	Jeeun Hwang
	PAE-03	Daeyoung Park		PGC-07	Mira Seo
성간물질/ 별생성/ 우리은하	PIM-01	Dayoung Pyo		PGC-08	Ashraf Ayubinia
	PIM-02	Sieun Lee		PGC-09	Seong-Kook Lee
	PIM-03	Jiwon Han	우주론/ 암흑물질, 암흑에너지	PCD-01	Jeongin Moon
	PIM-04	Chulhwan Kim		PCD-02	Se Yeon Hwang
	PIM-05	Aran Lyo		PCD-03	Hyeonmo Koo
천문우주 관측기술	PAT-01	Young-Soo Kim	천문화학/ 천문생물학	PAB-01	Giseon Baek
	PAT-02	Jaemin Lee	태양/ 태양계	PSS-01	Yeon-Han Kim
	PAT-03	Hye-In Lee		PSS-02	Hwanhee Lee
	PAT-04	Chung-Uk Lee		PSS-03	Yeon Woo Jang
항성, 항성계/ 외계행성	PSA-01	Jae-Joon Lee		PSS-04	Su-Chan Bong
	PSA-02	Hyeonho Choi		PSS-05	Minbae Kim

제1발표장 첫째날 : 04월 13일 (수)

13:00~14:00

등록

14:00~14:20

개 회 사 : 박명구 학회장

축 사 : 박영득 한국천문연구원 원장

시 상 : 에스이랩-셋별상 : 김기범 회원

초청강연

좌장 : Hyung Mok Lee(이형목)[SNU]

14:20~14:40 초 IT-01-1

UNESCO's Memory of the World

Kyung Joon Lee(이경준, 명예교수)[SNU/산림녹화 기록물 UNESCO 등재 추진위원장]

14:40~15:00 초 IT-01-2

SeongByeonCheukHuDanJa: preparing to be listed as the UNESCO's Memory of the World

Hong-Jin Yang (양홍진)[KASI/성변측후단자 UNESCO 등재 추진 준비위원회]

15:00~15:30 휴식시간

Special Forum (특별포럼)

좌장 : Jongbin Im (임종빈)[KSPRC]

15:30~15:50 주제발표

제4차 우주개발진흥 기본계획 우주탐사 분야 방향성 모색

(Special Forum: Korea Space Exploration in the 4th Plan for Promotion of Space Development)

Ryun Young Kwon(권윤영)[Korea Space Policy Research Center]

Panel Discussion (가나다 순)

Young-Sil Kwak(곽영실)[KASI], Minsun Kim(김민선)[KASI], Minjin Kim(김민진)[KNU],

Soojong Pak(박수종)[KHU], Changwon Lee(이창원)[천문연], Myungshin Im(임명신)[SNU],

Gwangson Choe(최광선)[KHU], Young-Jun Choi(최영준)[KASI], Woorak Choi(최우락)[Yonsei Univ./YAM]

15:50~16:20 Discussion 1

국가적 가치/기술수준,

미래 국제 경쟁력을 고려한 향후 50년(100년) 국가 전략적 우주탐사 과학 임무

16:20~16:50 Discussion 2

국내 기술 수준을 초과한 우주탐사 과학 임무-큰 보폭을 위한 국제 협력

16:50~17:20 Discussion 3

국가 우주탐사 계획의 철학과 비전, 실현 방안 - 제5차 우주개발진흥 기본계획 준비

17:20~17:30 Group Discussion

제1발표장 둘째날 : 04월 14일 (목)

초청강연

좌장 : Youngmin JeongAhn(정안영민)[KASI]

09:30~10:10 초 IT-02

APEX - An OSIRIS-REx extended mission to asteroid Apophis

Michael C. Nolan[University of Arizona]

10:10~10:30 휴식시간

Active Galactic Nuclei 1

좌장 : Dohyeong Kim(김도형)[PNU]

10:30~11:00 박 GC-01

Parsec-scale jet properties of active galactic nuclei located in a wide range of density environment

Junhyun Baek(백준현), Aeree Chung(정애리)[Yonsei University]

11:00~11:15 구 GC-02

Spectroscopic reverberation mapping of the intermediate-mass AGN in NGC 4395

Hojin Cho(조호진), Jong-Hak Woo(우종학)[SNU], NGC 4395 Collaborations

11:15~11:30 구 GC-03

Medium-band Observation of Neutrino Emitting Blazar, TXS 0506+056

Sungyong Hwang(황성용), Myungshin Im(임명신), Yoon Chan Taak(탁윤찬), Insu Paek(백인수), Changsu Choi(최창수), Suhyun Shin(신수현), Sang-Yun Lee(이상윤)[SNU], Tae-Geun Ji(지태근), Soojong Pak(박수종), Hye-In Lee(이혜인), Hojae Ahn(안호재), Jimin Han(한지민), Changgon Kim(김창곤)[KHU], Jennifer Marshall[Texas A&M University], Christopher M. Johns-Krull[Rice University], Coyne A. Gibson[McDonald Observatory], Luke Schmidt, Travis Prochaska[Texas A&M University]

11:30~11:45 구 GC-04

The Infrared Medium-deep Survey. IX. Discovery of Two New $z \sim 6$ Quasars and Space Density down to $M_{1450} \sim -23.5$ mag

Yongjung Kim(김용정)[KNU/Kavli Institute], Myungshin Im(임명신)[SNU], Yiseul Jeon(전이슬)[FEROKA Inc.], Minjin Kim(김민진)[KNU],

Linhua Jiang[Kavli Institute/Peking University], Suhyun Shin(신수현)[SNU], IMS team

11:45~12:00 구 GC-05

A New Iron Emission Template for Active Galactic Nuclei. I. Optical Template for the H β region

Daeseong Park (박대성)[KNU/KASI], Aaron J. Barth[University of California], Luis C. Ho[Peking University], Ari Laor[Technion - Israel Institute]

12:00~13:30

점심시간 &

미리보는 'Women in Astronomy of IAU GA'

AGN 2/ External Galaxies - Observation 1

좌장 : Yun-Kyeong Sheen(신윤경)[KASI]

13:30~13:45 구 GC-06

BASS DR2: Spectroscopic line measurements and AGN demographics

Kyuseok Oh(오규석)[KASI/Kyoto University], Michael J. Koss[Eureka Scientific/Space Science Institute], Yoshihiro Ueda[Kyoto University], Daniel Stern[Jet Propulsion Laboratory], Claudio Ricci[Universidad Diego Portales/Peking University], Benny Trakhtenbrot[Tel Aviv University], Meredith C. Powell[Stanford University], Jakob S. Den Brok[ETH Zurich/University of Bonn], Isabella Lamperti[Centro de Astrobiologia], Richard Mushotzky[University of Maryland], Federica Ricci[Universita di Bologna/INAF], Rudolf E. Bar[ETH Zurich], Alejandra F. Rojas[Universidad de Antofagasta], Kohei Ichikawa[Max-Planck-Institut for Extraterrestrische Physik/Tohoku University], Rogerio Riffel[Universidade Federal do Rio Grande do Sul], Ezequiel Treister[Pontificia Universidad Catolica de Chile], Fiona Harrison[California Institute of Technology], C. Megan Urry[Yale University], Franz E. Bauer[Pontificia Universidad Catolica de Chile/Millennium Institute of Astrophysics/Space Science Institute], Kevin Schawinski[Modulos AG]

제1발표장 둘째날 : 04월 14일 (목)

AGN 2/ External Galaxies - Observation 1

좌장 : Yun-Kyeong Sheen(신윤경)[KASI]

13:45~14:00 구 GC-07

Overdensity of H-alpha Emitters Around an Extremely Massive Quasar at $z = 1.47$

Hyunsung Jun(전현성)[SNU/KIAS], Myungshin Im(임명신)[SNU], Minhee Hyun(현민희)[KASI],
Yongmin Yoon(윤용민)[KIAS], Peter Eisenhardt[et Propulsion Laboratory],
Jueun Hong[SPHERE], Yiseul Jeon(FEROKA), Duho Kim(김두호), Jae-Woo Kim(김재우)[KASI],
Ji Hoon Kim(김지훈)[SNU], Changbom Park(박창범)[KIAS]

14:00~14:15 구 GC-08

The nature of the faint radio source population through stacking

Emmanuel F. Ocran[KASI/University of the Western Cape], J. M. Stil[University of Calgary],
A. R. Taylor[University of the Western Cape/University of Cape Town],
M. Vaccari[University of the Western Cape/University of Cape Town/INAF],
C. H. Ishwara-Chandra[University of Cape Town/Tata Institute of Fundamental Research],
Jae-Woo Kim(김재우)[KASI]

14:15~14:45 박 GC-09

Detection and Analysis of Low Surface Brightness Systems in the Outskirts of Nearby Galaxies with KMTNet

Woowon Byun(변우원), Yun-Kyeong Sheen(신윤경)[KASI], Luis C. Ho[Kavli Institute/Peking
University], Kwang-Il Seon(선광일)[KASI/UST], Joon Hyeop Lee(이준협)[KASI],
Sang Chul Kim(김상철)[KASI/UST], Hyunjin Jeong(정현진), Byeong-Gon Park(박병곤)[KASI],
Yongseok Lee(이용석), Sang-Mok Cha(차상목)[KASI/KHU], Jongwan Ko(고종완)[KASI/UST],
Minjin Kim(김민진)[KNU]

14:45~15:00 구 GC-10

Properties of Fast and Slow Bars Classified by Epicyclic Frequency Curves from Photometry of Barred Galaxies

Yun Hee Lee(이윤희)[KASI], Myeong-Gu Park(박명구)[KNU],
Ho Seong Hwang(황호성)[KASI/SNU], Hong Bae Ann(안홍배)[PNU],
Haeun Chung(정하은)[University of Arizona], Taehyun Kim(김태현)[KNU]

15:00~15:20 사진촬영

초청강연

좌장 : Jeong-Eun Lee(이정은)[KHU]

15:20~16:00 초 IT-03

Cassiopeia A: A Prototypical Supernova Remnant for the Study of Core-Collapse Supernova Explosions

Bon-Chul Koo(구본철)[SNU]

16:00~17:00 분과회의 : 태양우주환경분과

16:00~17:00 포스터 발표

External Galaxies - Observations 2

좌장 : Seong-Kook Lee(이성국)[SNU]

17:00~17:30 박 GC-11

Study of High Redshift Galaxies at Different Environments with Multi-object Spectroscopic and Submm Observations

Minhee Hyun(현민희)[KASI/SNU], Myungshin Im(임명신)[SNU]

17:30~17:45 구 GC-12

KS4 Massive Galaxy Cluster Candidates in the Southern Sky

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

17:45~18:00 구 GC-13

Testing Web Feeding Model for Star Formation in Galaxy Clusters in the COSMOS Field

Eunhee Ko(고은희), Myungshin Im(임명신), Seong-Kook Lee(이성국)[SNU],
Min hee Hyun(현민희)[KASI], Bomi Park(박보미)[SNU]

18:00~18:15 구 GC-14

Evidence for Impact of Galaxy Mergers on Properties of Early-type Galaxies

Yongmin Yoon(윤용민), Changbom Park(박창범)[KIAS], Haeun Chung(정하은)[University of
Arizona], Gu Lim(임구)[SNU], Richard R. Lane[Universidad Bernardo O'Higgins]

18:15~18:30 석 GC-15

HI gas kinematics of galaxy pairs in cluster environments from ASKAP pilot observations

Shin-Jeong Kim(김신정), Se-Heon Oh(오세현), Minsu Kim(김민수)[Sejong University],
Hye-Jin Park(박혜진[Australian National University]), Shinna Kim(김신나)[Sejong University],
ASKAP WALLABY Science Group 2 (SWG 2)

제2발표장 둘째날 : 04월 14일 (목)

초청강연 (제1발표장)

좌장 : Youngmin JeongAhn(정안영민)[KASI]

09:30~10:10 초 IT-02

APEX - An OSIRIS-REx extended mission to asteroid Apophis

Michael C. Nolan[University of Arizona]

10:10~10:30 휴식시간

Interstellar matter/Star formation

좌장 : Jihyun Kang(강지현)[KASI]

10:30~10:45 구 IM-01

A study of gas and ice chemistry for protostars in the Perseus molecular cloud using the AKARI near-IR slitless spectra

Jaeyeong Kim(김재영)[KASI], Jeong-Eun Lee(이정은), Chul-Hwan Kim(김철환)[KHU],
Tien-Hao Hsieh[Max-Planck-Institute], Yao-Lun Yang[University of Virginia],
Nadia Murillo[RIKEN Wako Institute], Yuri Aikawa[University of Tokyo],
Woong-Seob Jeong(정웅섭)[KASI]

10:45~11:00 구 IM-02

Impact of Radiation Feedback on the Formation of Globular Cluster Candidates during Cloud-Cloud collisions

Daniel Han(한다니엘), Taysun Kimm(김태선)[Yonsei University],
Harley Katz, Julien Devriendt, Adrianne Slyz[University of Oxford]

11:00~11:15 구 IM-03

Photochemistry and Heating/Cooling of the Multiphase ISM with UV Radiative Transfer

Jeong- Gyu Kim(김정규)[KASI/Princeton University], Munan Gong[MPE Garching],
Chang-Goo Kim(김창구), Eve C. Ostriker[Princeton University]

11:15~11:30 구 IM-04

Effects of Magnetic Fields on Gas Dynamics and Star Formation in Nuclear Rings

Sanghyuk Moon(문상혁), Woong-Tae Kim(김웅태)[SNU]

11:30~11:45 구 IM-05

A Spiral Magnetic Field in a Hub-Filament Structure, Monoceros R2

Jihye Hwang(황지혜), Jongsoo Kim(김종수)[KASI/UST], BISTRO team

11:45~12:00 구 IM-06

Magnetic Fields in the Serpens Main Molecular Cloud

Woojin Kwon (권우진)[SNU]on behalf of the BISTRO team

12:00~13:30

점심시간

Cosmology

좌장 : Arman Shafieloo[KASI]

13:30~13:45 구 CD-01

Evidence for strong systematic bias in supernova cosmology

Chul Chung(정철), Young-Wook Lee(이영욱), Seunghyun Park(박승현), Junhyuk Son(손준혁),
Seunghyun An(안승현)[Yonsei University]

13:45~14:00 구 CD-02

A Negative Cosmological Constant?

Rodrigo Calderon[KASI], Benjamin L'Huillier[Yonsei University],
Radouane Gannouji[Pontificia Universidad Católica de Valparaíso],
David Polarski[Université de Montpellier]

Cosmology

좌장 : Arman Shafieloo[KASI]

- 14:00~14:15 구 CD-03
 Bayesian vs frequentist: comparing Bayesian model selection with a frequentist approach using the iterative smoothing method
 Hanwool Koo(구한울)[KASI/UST], Ryan E. Keeley[KASI/University of California Merced], Arman Shafieloo[KASI/UST], Benjamin L'Huillier[Sejong University]
- 14:15~14:30 구 CD-04
 Mulguisin Clustering Algorithm I. - Comparison of Clustering Algorithms for Study of Cosmic Structure Finding
 Young Ju(주영)[University of Seoul], Sungwook E. Hong(홍성욱)[University of Seoul/KASI/UST], Inkyu Park(박인규), Cristiano G. Sabiu[University of Seoul]
- 14:30~14:45 구 CD-05
 Detection of the Integrated Sachs-Wolfe Effect with the Rapid ASKAP Continuum Survey
 Benedict K. W. Bahr-Kalus[KASI], Jacobo Asorey[Centro de Investigaciones Energeticas], Stefano Camera[Università degli Studi di Torino], Catherine Hale[niversity of Edinburgh], David Parkinson, Fei Qin[KASI]
- 14:45~15:00 구 CD-06
 Challenges of BAO peak measurement using photometric data
 Christoph Saulder, Yong-Seon Song(송용선)[KASI], Minji Oh(오민지)[Chosun University]

15:00~15:20 사진촬영

초청강연 (제1발표장)

좌장 : Jeong-Eun Lee(이정은)[KHU]

- 15:20~16:00 초 IT-03
 Cassiopeia A: A Prototypical Supernova Remnant for the Study of Core-Collapse Supernova Explosions
 Bon-Chul Koo(구본철)[SNU]

16:00~17:00 분과회의 : YAM

16:00~17:00 포스터 발표

High energy astronomy/Theoretical astronomy

좌장 : Jungyeon Cho(조정연)[CNU]

- 17:00~17:15 구 HT-01
 A Simulation Study of Morphologies of FR-I and FR-II jets
 Ayan Bhattacharjee[UNIST], Jeongbhin Seo(서정빈), Hyesung Kang(강혜성)[PNU], Dongsu Ryu(류동수)[UNIST]
- 17:15~17:45 박 HT-02
 Acceleration of Ultra-high Energy Cosmic Rays at Relativistic Jets
 Jeongbhin Seo(서정빈), Hyesung Kang(강혜성)[PNU], Dongsu Ryu(류동수)[UNIST]
- 17:45~18:15 박 HT-03
 Cosmic Ray Acceleration at Shocks in Galaxy Clusters
 Ji-Hoon Ha(하지훈), Dongsu Ryu(류동수)[UNIST], Hyesung Kang(강혜성)[PNU], Sunjung Kim(김선정)[UNIST]
- 18:15~18:30 구 HT-04
 Evolution of Kinetic and Magnetic Energy in a large magnetic Prandtl number System
 Kiwan Park(박기완)[OMEG Soongsil University]

초청강연 (제1발표장)

좌장 : Youngmin JeongAhn(정안영민)[KASI]

09:30~10:10 초 IT-02

APEX - An OSIRIS-REx extended mission to asteroid Apophis

Michael C. Nolan[University of Arizona]

10:10~10:30 휴식시간

[특] Apophis/Solar System

좌장 : Chae Kyung Sim(심채경)[KASI]

10:30~10:45 구 AS-01

Rendezvous Mission to Apophis: I. Science Goals

Myung-Jin Kim(김명진), Hong-Kyu Moon(문흥규)[KASI], Young-Jun Choi(최영준)[KASI/UST],
Minsup Jeong(정민섭)[KASI], Masateru Ishiguro[SNU], Youngmin JeongAhn(정안영민),
Hee-Jae Lee(이희재), Hongu Yang(양홍우), Seul-Min Baek(백슬민), Jin Choi(최진),
Chae Kyung Sim(심채경), Dukhang Lee(이덕행)[KASI], Dong-Heun Kim(김동훈)[KASI/CBNU],
Eunjin Cho(최은진), Mingyeong Lee(이민경)[KASI/UST], Yoonsoo Bach(박윤수),
Sunho Jin(진선호), Jooyeon Geem(김주연), Hangbin Jo(조항빈)[SNU],
Sangho Choi(최상호)[Yonsei University], Yaeji Kim[Auburn University],
Yoonyoung Kim(김윤영), Yuna Kwon(권유나)[Univ of Braunschweig]

10:45~11:00 구 AS-02

Rendezvous Mission to Apophis: II. Changes of the spin state and the orbital parameters of Apophis during the 2029 Earth encounter

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

11:00~11:15 구 AS-03

Rendezvous Mission to Apophis: III. Physical properties of (99942) Apophis revealed from the observations in 2021

Hee-Jae Lee(이희재), Myung-Jin Kim(김명진)[KASI], Dong-Heun Kim(김동훈)[KASI/CBNU],
Hong-Kyu Moon(문흥규), Young-Jun Choi(최영준)[KASI/UST] on behalf of the Apophis
Observation Team

11:15~11:30 구 AS-04

Utilizing Scientific Culture Contents in Apophis Project

Chang Hyun Baek(백창현)[NSM], Young-Jun Choi(최영준)[KASI]

11:30~11:45 구 AS-05

Polarimetric Observation of (3200) Phaethon, in Preparation for the Upcoming DESTINY+ Space Mission

Jooyeon Geem(김주연), Masateru Ishiguro[SNU], Jun Takahashi[University of Hyogo], Hiroshi Akitaya[Chiba Institute of Technology], Koji S. Kawabata, Tatsuya Nakaoka, Ryo Imazawa, Fumiki Mori[Hiroshima University], Daisuke Kuroda[Kyoto University], Sunao Hasegawa[JAEA], Fumi Yoshida, Ko Ishibashi, Tomoko Arai[Chiba Institute of Technology], Tomohiko Sekiguchi[Hokkaido University of Education], Yuji Ikeda, Yoshiharu Shinnaka[Kyoto Sangyo University], Yoonsoo P. Bach (박윤수), Sunho Jin(진선호), Hangbin Jo (조항빈)[KASI], Myungjin Kim(김명진)[SNU]

11:45~12:00 구 AS-06

Laboratory experiment for light scattering near opposition with 3D printed regolith models

Mingyeong Lee(이민경)[KASI/UST], Minsup Jeong(정민섭)[KASI],
Young-Jun Choi(최영준)[KASI/UST]

12:00~13:30

점심시간

제3발표장 둘째날 : 04월 14일 (목)

Sun

좌장 : Ryun Young Kwon(권윤영)[KASI]

- 13:30~13:45 구 SS-01
Which Is More Important in Solar Eruption, Magnetic Helicity or Winding Number?
Sibaek Yi(이시백), Gwangson Choe(최광선)[KHU]
- 13:45~14:00 구 SS-02
On the Poloidal-Toroidal Representation of Magnetic Field
Gwangson Choe(최광선), Sibaek Yi(이시백), Minseon Lee(이민선)[KHU]
- 14:00~14:15 구 SS-03
Numerical study of low-velocity dust ejection from Phaethon and its connection to the Geminid meteoroid stream
Hangbin Jo(조항빈), Masateru Ishiguro[SNU]

15:00~15:20 사진촬영

초청강연 (제1발표장)

좌장 : Jeong-Eun Lee(이정은)[KHU]

- 15:20~16:00 초 IT-03
Cassiopeia A: A Prototypical Supernova Remnant for the Study of Core-Collapse Supernova Explosions
Bon-Chul Koo(구본철)[SNU]

16:00~17:00 포스터 발표 및 분과회의

[특] Gravitational Wave Detection Technology

좌장 : Sungho Lee(이성호)[KASI]

- 17:00~17:18 구GWDT-01
aLIGO Gravitational Wave Detector: Quad Suspension and Optical Mirrors
Kyung-ha Lee(이경하)[Sungkyunkwan University]
- 17:18~17:36 구GWDT-02
Experimental Demonstration of Squeezing the Vacuum
Chang-Hee Kim (김창희), Sungho Lee (이성호), June Gyu Park (박준규),
Yunjong Kim (김윤종), Ueejeong Jeong (정의정), Hyeon Cheol Seong (성현철)[KASI]
- 17:36~17:54 구GWDT-03
Frequency dependent squeezing using filter cavity and vacuum compatible faraday isolator for KAGRA
June Gyu Park (박준규), Sungho Lee (이성호), Chang-Hee Kim (김창희),
Yunjong Kim (김윤종), Ueejeong Jeong (정의정), Hyeon Cheol Seong (성현철)[KASI]

17:54~18:12 구GWDT-04

Mode matching telescope design and simulation for the EPR-SIPS experiment

Sumin Lee(이수민)[KHU], Chang Hee Kim(김창희)[KASI], Jimin Han(한지민)[KHU],
Sibilla Di Pace[University of Roma], V Sequino[Sezione di Genova],
Yunjong Kim(김윤종)[KASI], Changgon Kim(김창곤), Hojae Ahn(안호재),
Soojong Pak(박수종)[KHU], Sungho Lee(이성호)[KASI], Jaewan Kim(김재완)[Myongji University],
M Bawaj[Sezione di Perugia], M Barsuglia[Universit'e Paris Diderot], M Bazzan[Universit'a
di Padova], E Calloni[Universit'a di Napoli], G Ciani, L Conti[Universit'a di Padova],
B D'Angelo[Universit'a degli Studi di Genova/Sezione di Genova], M De Laurentis,
R De Rosa[Universit'a di Napoli], V Fafone[Universit'a di Roma/Sezione di Roma Tor
Vergata], B Garaventa[Universit'a degli Studi di Genova/Sezione di Genova],
G Gemme[Sezione di Genova], A Gennai[Sezione di Pisa], L Giacoppo[Universit'a di
Roma/Sezione di Roma Tor Vergata], J Harms[Gran Sasso Science Institute/Laboratori
Nazionali del Gran Sasso], I Khan1614, E Majorana[Universit'a di Roma/Sezione di Roma],
L Naticchioni[Sezione di Roma], C Nguyen[Universit'e Paris], D Passuello[Sezione di Pisa],
G Prodi[Universit'a di Trento], F Ricci[Universit'a di Roma/Sezione di Roma],
A Rocch[Universit'a di Roma], F Sorrentino[Sezione di Genova], M Vardaro,
JP Zendri[Universit'a di Padova]

18:12~18:30 구GWDT-05

Gravitational-wave detector characterization and machine learning application

Young-Min Kim(김영민), Kihyun Jung(정기현), Kyujin Kwak(곽규진)[UNIST],
Sang Hoon Oh(오상훈), Whasun Kim(김환선), Edwin J. Son(손재주), John J. Oh(오정근)[NIMS]

제1발표장 세째날 : 04월 15일 (금)

초청강연

좌장 : Byeong-Gon Park(박병곤)[KASI]

09:30~10:10 초 IT-04

SPECTR: Spectrophotometer for Transmission Spectroscopy of Exoplanet Systems

Myeong-Gu Park(박명구)[KNU], Kang-Min Kim(김강민), Yeon-ho Choi(최연호),
Chan Park(박찬), Inwoo Han(한인우), Byeong-Cheol Lee(이병철), Ueejeong Jeong(정의정),
Be-Ho Jang(장비호), Jeong Gyun Jang(장정균), Sang-Min Lee(이상민)[KASI],
Tae-Yang Bang(빙태양), Jae-Rim Koo(구재림)[KNU]

10:10~10:30

휴식시간

Galaxy Simulations 1

좌장 : Ji-hoon Kim(김지훈)[SNU]

10:30~11:00 박 GC-16

Calibration of Simulated Universe with Observed Universe

Yongseok Jo(조용석)[SNU]

11:00~11:15 구 GC-17

The Metallicity Distribution Function in Outer Halo Fields of Simulated Elliptical Galaxies
Compared to Observations of NGC 5128

Ena Choi (최이나)[KIAS], Jeremiah P. Ostriker[Columbia University],
Michaela Hirschmann[University of Copenhagen], Rachel S. Somerville[Flatiron Institute],
Thorsten Naab[Max-Planck-Institut für Astrophysik]

11:15~11:30 구 GC-18

Modelling Lyman-alpha emitters (LAEs) and properties of simulated LAEs: an empirical
approach

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

11:30~11:45 구 GC-19

Simulated galaxies with an observer's view: from kinematics to photometry

Jaekyoung Jang(장재경), Jinsu Rhee(이진수), Sukeyoung K. Yi(이석영)[Yonsei University]

11:45~12:00 구 GC-20

The star formation quenching and transition epoch of the Horizon-AGN galaxies

Seyoung Jeon(전세영), Sukeyoung K. Yi(이석영), San Han(한산), Ryan A. Jackson,
Jinsu Rhee(이진수)[Yonsei University]

12:00~13:30

점심시간

Galaxy Simulations 2

좌장 : Myoungwon Jeon(전명원)[KHU]

13:30~13:45 구 GC-21

Formation and Morphology of the First Galaxies in the Cosmic Morning

Changbom Park(박창범), Jaehyun Lee(이재현), Juhan Kim(김주한)[KIAS],
Donghui Jeong(정동휘)[University Park/KIAS], Christophe Pichon[CNRS /IPhT/KIAS],
Brad K. Gibson[University of Hull], Owain N. Snaith[GEP], Jihye Shin(tlswlg)[KASI],
Yonghwi Kim(김용휘)[KIAS], Yohan Dubois[CNRS], C. Gareth Few[University of Hull]

13:45~14:00 구 GC-22

Simulating jellyfish features with a gas-rich dwarf galaxy

Jaehyun Lee(이재현)[KIAS], Taysun Kimm(김태선)[Yonsei University], Jeremy Blaizot[Université
Claude Bernard Lyon1], Harley Katz[University of Oxford], Wonki Lee(이원기)[Yonsei
University], Yun-Kyeong Sheen(신윤경)[KASI], Julien Devriendt, Adrienne Slyz[University of
Oxford]

제1발표장 세째날 : 04월 15일 (금)

Galaxy Simulations 2

좌장 : Myoungwon Jeon(전명원)[KHU]

14:00~14:15 구 GC-23

Tracking Halo Orbits and Their Mass Evolution around Large-scale Filaments
Hannah Jhee(지한나)[University of Seoul], Hyunmi Song(송현미)[CNU], Rory Smitn[University of Seoul/Universidad Technica Frederico de Santa Maria], Jihye Shin(신지혜)[KASI], Inkyu Park(박인규)[University of Seoul], Clotilde Laigle[Institut d'Astrophysique de Paris]

14:15~14:30 구 GC-24

Modeling RPS of the multiphase ISM: a detailed view from TIGRESS simulations
Woorak Choi(최우락)[Yonsei University], Chang-Goo Kim(김창구)[Princeton University], Aeree Chung(정애리)[Yonsei University]

14:30~14:45 구 GC-25

Properties of Shocks in Simulated Merging Clusters of Galaxies
Eunyu Lee(이은유), Dongsu Ryu(류동수)[UNIST], Hyesung Kang(강혜성)[PNU]

14:45~15:00 구 GC-26

Effects of seed magnetic fields on small-scale turbulent dynamo in clusters of galaxies
Hyeseung Lee(이혜승), Dongsu Ryu(류동수)[UNIST]

15:00~15:20

메타스페이스 - 우수포스터상 시상 및 폐회

제2발표장 세째날 : 04월 15일 (금)

초청강연 (제1발표장)

좌장 : Byeong-Gon Park(박병곤)[KASI]

09:30~10:10 초 IT-04

SPECTR: Spectrophotometer for Transmission Spectroscopy of Exoplanet Systems

Myeong-Gu Park(박명구)[KNU], Kang-Min Kim(김강민), Yeon-ho Choi(최연호),
Chan Park(박찬), Inwoo Han(한인우), Byeong-Cheol Lee(이병철), Ueejeong Jeong(정의정),
Be-Ho Jang(장비호), Jeong Gyun Jang(장정균), Sang-Min Lee(이상민)[KASI],
Tae-Yang Bang(빙태양), Jae-Rim Koo(구재림)[KNU]

10:10~10:30

휴식시간

Historical astronomy/Ephemerides/
Astronomy Outreach and Education

좌장 : Hong-Jin Yang(양홍진)[KASI]

10:30~10:45 구 HE-01

Investigation of a stone Angbu-ilgu in the late Joseon Dynasty

Sang Hyuk Kim(김상혁)[KASI], Byeong-Hee Mihn(민병희)[KASI/UST],
Jae-Young Kim(김재영)[KASI]

10:45~11:00 구 HE-02

The Model of a Mechanical Armillary Sphere Made by a Neo-Confucian at Late Joseon

Byeong-Hee Mihn(민병희)[KASI/UST], Yong-Hyun Yun(윤용현)[NSM],
Sang Hyuk Kim(김상혁)[KASI], Ho Chul Ki(기호철)[Ghil Institute]

11:00~11:15 구 HE-03

Lunar motion described in the Yuè lí lì zhǐ(月離曆指) of the Chongzhen reign treatises on
Calendrical Astronomy(Chóngzhēn lishū 崇禎曆書)

Choe Seung-Urn(최승언)[SNU], Kang Min-Jeong(강민정)[ITKC]

11:15~11:30 구 HE-04

A study on the definition of terms related to approach and distance between celestial
bodies in Korean historical astronomical records

Hyojun Lee(이효준)[Yonsei University/KASI], Hong-Jin Yang(양홍진)[KASI],
Suk-Jin Yoon(윤석진)[Yonsei University]

11:30~11:45 구 HE-05

Let's go to the Universe, TOGETHER!

Jeong Ae Lee(이정애)[KASI], Hojun Lee(이호준), Sujin Kim(김수진)[Nowon Cosmos Science
Center], Minkyung Woo(우민경)[SL Lab], UNAWK Korea

11:45~12:00 구 HE-06

Pop-up Exhibition of JWST in NSM

Chang Hyun Baek(백창현), Cheolhee Kim(김철희), Woonhee Min(민운희),
Jihyuk Lee(이지혁)[NSM]

12:00~13:30

점심시간

Stars, Star Clusters/Exoplanets

좌장 : Sung-Chul Yoon(윤성철)[SNU]

13:30~13:45 구SA-01

Bayesian Estimation of Stellar Ages (BESA)

Jinhee Lee(이진희)[PNU]

13:45~14:00 구SA-02

Effects of He and CNO enhanced multiple stellar populations in determining the absolute
ages of globular clusters

Jeongyun Choi(최정윤), Young-Wook Lee(이영욱), Chul Chung(정철)[Yonsei University],
Sohee Jang(장소희)[Universit`a di Padova], Junhyuk Son(손준혁)[Yonsei University]

제2발표장 세째날 : 04월 15일 (금)

Stars, Star Clusters/Exoplanets

좌장 : Sung-Chul Yoon(윤성철)[SNU]

14:00~14:15 구SA-03

Evidence for Spatially Dependent Magnetic Activity of M dwarfs in the Solar Cylinder

Seo-Won Chang (장서원)[SNU],

Christian Wolf, Christopher A. Onken[Australian National University]

14:15~14:30 구SA-04

Accretion Disk Model for an S-type Symbiotic Star AG Dra

Hyosun Kim(김효선)[KASI], Young-Min Lee(이영민)[Sejong University/SEP Engineering],

Hee-Won Lee(이희원)[Sejong University]

14:30~14:45 구SA-05

Mass loss enhancement of stripped envelope supernova progenitor and implication for SN 2019yvr

Moo-Keon Jung(정무건), Sung-Chul Yoon(윤성철)[SNU], Hyun-Jeong Kim(김현정)[KASI]

14:45~15:00 구SA-06

The effects of chemical mixing in supernova ejecta on the first peak of type IIb supernovae

Seong Hyun Park(박성현), Sung-Chul Yoon(윤성철)[SNU]

15:00~15:20

메타스페이스 - 우수포스터상 시상 및 폐회

제3발표장 세째날 : 04월 15일 (금)

초청강연 (제1발표장)

좌장 : Byeong-Gon Park(박병곤)[KASI]

09:30~10:10 초 IT-04

SPECTR: Spectrophotometer for Transmission Spectroscopy of Exoplanet Systems

Myeong-Gu Park(박명구)[KNU], Kang-Min Kim(김강민), Yeon-ho Choi(최연호),
Chan Park(박찬), Inwoo Han(한인우), Byeong-Cheol Lee(이병철), Ueejeong Jeong(정의정),
Be-Ho Jang(장비호), Jeong Gyun Jang(장정균), Sang-Min Lee(이상민)[KASI],
Tae-Yang Bang(빙태양), Jae-Rim Koo(구재림)[KNU]

10:10~10:30

휴식시간

Astronomy & Space Science Technologies

좌장 : Woong-Seob Jeong(정웅섭)[KASI]

10:30~10:45 구 AT-01

Aspera: The UV Small-Satellite mission for mapping warm-hot gas in nearby galaxy halos
Haeun Chung(정하은), Carlos Vargas, Erika Hamden[Univesity of Arizona], Aspera Team

10:45~11:00 구 AT-02

Optical design and analysis of Linear Astigmatism Free-Three Mirror System (LAF-TMS)
for MESSIER satellite

Changgon Kim(김창곤), Dohoon Kim(김도훈), imin Han(한지민)[KHU],
Sunwoo Lee(이선우)[KBSI], Seunghyuk Chang(장승혁)[CISS],
Daewook Kim(김대욱)[University of Arizona], David Valls-Gabaud[Observatoire de Paris],
Rémi Cabanac[University of Toulouse], Soojong Pak(박수종)[KHU]

11:00~11:15 구 AT-03

CNN-TDA Net : Construction of Training Image Sets for Real/bogus Object Classification
with Artificial Intelligence

Gregory S.H. Paek(백승학), Myungshin Im(임명신), Seo-won Chang(장서원)[SNU], Seong-Heon
Lee(이성현), Dongjin Lee(이동진), Jae-Hun Jung(정재훈)[POSTECH], IMSNG team1.2

11:15~11:30 구 AT-04

CNN-TDA Net: Enhancing Convolutional Neural Networks for Classification of Transient
and Bogus Using Topological Data Analysis

Seong-Heon Lee(이성현), Dongjin Lee(이동진), Jae-Hun Jung(정재훈)[POSTECH]

11:30~11:45 구 AT-05

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

Mankeun Jeong(정만근), Myunshin Im(임명신)[SNU], Joonho Kim(김준호)[SNU/DNSM],
Seo-Won Chang(장서원), Sunho Jung(정선호), Suhyun Shin(신수현)[SNU]

11:45~12:00 구 AT-06

Performance analysis of Automatic Observing Software for Wide-field Imagin

Tae-Geun Ji(지태근)[KHU], Sungyong Hwang(황성용)[SNU], Hye-In Lee(이혜인)[KASI],
Changsu Choi(최창수), Myungshin Im(임명신)[SNU], Soojong Pak(박수종)[KHU]

12:00~13:30

점심시간

Astronomy & Space Science Technologies

좌장 : Chan Park(박찬)[KASI]

13:30~13:45 구 AT-07

First Spectra from a GPU Spectrometer for the ALMA Total Power Array

Jongsoo Kim(김종수)[KASI]

제3발표장 세째날 : 04월 15일 (금)

Astronomy & Space Science Technologies

좌장 : Chan Park(박찬)[KASI]

13:45~14:00 구 AT-08

SDSS-V LVM-I Observation Control Software: SCP, ECP and NPS

Mingyeong Yang(양민경), Changgon Kim(김창곤)[KHU], José Sánchez-Gallego[University of Washington], Florian Briegel[Max Planck Institut], Felipe Besser⁴, Pavan Bilgi[Max Planck Institut], Hojae Ahn(안호재), Tae-Geun Ji(지태근)[KHU], Nicholas P. Konidakis, Guillermo A. Blanc[Carnegie Institution for Science], Taeun Kim(김태은), Mingyu Jeon(전민규)[KHU], Hyun Chul Park[Konkuk University], Hye-In Lee[KASI], Erika Cook[Texas A&M University], Cynthia S. Froning, Solange Ramirez[Carnegie Institution for Science], Niv Drory[University of Texas], Juna A. Kollmeier[Carnegie Institution for Science], Soojong Pak(박수종)[KHU]

14:00~14:15 구 AT-09

Development of siderostat control system for SDSS-V Local Volume Mapper

Hojae Ahn(안호재)[KHU], Florian Briegel[Max Planck Institute], Mingyu Jeon(전민규)[KHU], Tom Herbst[Max Planck Institute], Sumin Lee(이수민), Inhwan Jung(정인환), Changgon Kim(김창곤), Jimin Han(한지민)[KHU], Geon Hee Kim(김근희)[Hanbat University], Wolfgang Gaessler, Markus Kuhlberg[Max Planck Institute], Tae-Geun Ji(지태근)[KHU], Hyun Chul Park(박현철)[Konkuk University], Soojong Pak(박수종)[KHU], Nicholas P. Konidakis[Carnegie Institution for Science], Niv Drory[University of Texas], José Sanchez-Gallego[University of Washington], Dmitry Bizyaev[Apache Point Observatory], Cynthia S. Froning[University of Texas], Solange Ramirez, Juna A. Kollmeier[Carnegie Institution for Science]

14:15~14:30 구 AT-10

7-Dimensional Sky Survey

Myungshin Im(임명신)[SNU]

15:00~15:20

메타스페이스 - 우수포스터상 시상 및 폐회

포스터 발표

고에너지/이론천문학(Galaxy Evolution/Cosmology)

PHT-01

The novel signal detection for gravitational waves via auto-regressive approach

Sangin Kim(김상인), C. Y. Hui, Kwangmin Oh(오광민)[CNU]

PHT-02

Development of a fully explicit, energy conservative, electromagnetic hybrid simulation code

Sunjung Kim(김선정), Dongsu Ryu(류동수)[UNIST]

PHT-03

A deep analysis of the compact binaries in globular cluster

Kwangmin Oh(오광민)[CNU]

고천문학/천문역법(Galaxy Evolution/Cosmology)

PHA-01

Statistical Analysis for Astronomical records of Hyeonjong-Donggung-Ilgi

Uhn Mee Bahk(박은미)[CBNU/KASI], Byeong-Hee Mihn(민병희)[KASI/UST],
Ki-Won Lee(이기원)[Daegu Catholic University], Sang Hyuk Kim(김상혁)[KASI],
Jaeyeon Hyun(현재연)[KASI/UST], Yonggi Kim(김용기)[CBNU]

교육홍보(Galaxy Evolution/Cosmology)

PAE-01

2022 Daegu National Science Museum Observatory Status

Joonho Kim(김준호), Hyeonwoo Moon(문현우), Yeejeong Lee(이이정)[DNSM]

PAE-02

Research using a remote observation for the Radio Telescope of Gwacheon National Science Museum

Jaeil Cho(조재일)[GNSM], Bong Won Shon(손봉원)[KASI], Tae Hyun Kim(김태현),
Hyo Ri Jeon(전효리), Jae Seong Noh(노재승), Ye Som Jung(정예솜),
Chae Rin Kim(김채린)[CBNU], Jung Si Woo(정시우), Son Young Jin(손영진)[KHU],
YoungPyo Hong(홍영표)[Yonsei University], Haerang Park(박해랑), Sungmin Lim(임성민),
Yuna Hahn(한윤아)[Ewoo High School], Taehyun Jung(정태현)[KASI],
Jung-Hoon Kim(김정훈)[SET SYSTEM]

PAE-03

Telescope Relay System Design for the Disabled

Daeyoung Park(박대영)[GNSM]

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

PIM-01

Methanol Ice Absorption toward 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 observatory]

PIM-02

YSO Variabilities in Various Timescales

Sieun Lee(이시은), Jeong-Eun Lee(이정은)[KHU], Carlos Contreras Peña[SNU],
Gregory Herczeg[Peking University],
Doug Johnstone[Herzberg Astronomy/University of Victoria]

포스터 발표

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

PIM-03

Gemini High-resolution Infrared Spectroscopy of Red Point-like Objects in the Central Molecular Zone

Jiwon Han(한지원), Deokkeun An(안덕근)[Ewha Womans University],
Kris Sellgren[Ohio State University], Solange V. Ramirez[Carnegie observatory],
A. C. Adwin Boogert[University of Hawaii]

PIM-04

The CO outflow ejected by a recent accretion burst in B335

Chul-Hwan Kim(김철환), Jeong-Eun Lee(이정은)[KHU], Carlos Contreras Pena[SNU],
Doug Johnstone[Herzberg Astronomy and Astrophysics Centre/University of Victoria],
Gregory J. Herezeg[Peiking University]

PIM-05

The JCMT BISTRO Survey: an 850/450 μ m polarization study of NGC 2071IR in Orion B

A-Ran Lyo(여아란)[UST], Jongsoo Kim(김종수)[KASI/UST], Sarah Sadavoy[Queen's University],
Doug Johnstone[Herzberg Astronomy and Astrophysics/University of Victoria],
David Berry[East Asian Observatory], the BISTRO team

외부은하/은하단(Galaxy Evolution/Cosmology)

PGC-01

HI superprofile analysis of nearby galaxies

Minsu Kim(김민수), Se-Heon Oh(오세현)[Sejong University]

PGC-02

Correlations of the multiwavelength emission in the blazar CTA 102 during 2016-2018

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

PGC-03

Velocity dispersions of globular cluster systems in ultra-diffuse galaxies in the Virgo cluster.

Sungsoon Lim(임성순)[Yonsei University], Elisa Toloba[University of Pacific],
Eric Peng[Peiking University], NGVS team

PGC-04

Double Synchrotron Self Absorption Spectrum of the Blazar 3C454.3 and Its Magnetic Field Strength

Hyeon-woo Jeong(정현우), Sang-Sung Lee(이상성)[KASI/UST]

PGC-05

A Hyperwide Study of the Intracluster Globular Cluster Population in Hydra

Brian S. Cho (조브라이언), Myung Gyoon Lee(이명균)[SNU],
In Sung Jang(장인성)[University of Chicago]

PGC-06

Construction of GALEX UV catalog of low redshift galaxies

Jeeun Hwang(황지은), Myungshin Im(임명신), Gregory S.H. Paek(백승학)[SNU], IMSNG team

PGC-07

Star Formation Histories of nearby Dwarf Spheroidal and Dwarf Elliptical Galaxies

Mira Seo(서미라), Hong Bae Ann(안홍배)[PNU]

PGC-08

A systematic study of ionized gas-radio emission connection in active galactic nuclei

Ashraf Ayubinia[SNU/University of Science and Technology of China],
Jong-Hak Woo(우종학)[SNU]

PGC-09

Star-formation of Galaxies in an Ancient Megalopolis

Seong-Kook Lee(이성국), Myungshin Im(임명신), Insu Paek(백인수)[SNU],
Minhee Hyun(현민희)[KASI], Yongjung Kim(김용정)[KNU], Jae-Woo Kim(김재우)[KASI]

포스터 발표

우주론(Cosmology)

- PCD-01
Clustering of Critical Points in Massive Neutrino Cosmologies
Jeongin Moon(문정인), Graziano Rossi, Hogyun Yu(유호균)[Sejong University]
- PCD-02
Comparing Cosmological Information from Deep Learning and Higher Order Statistics
Seyeon Hwang(황세연), Sumi Kim(김수미), Cristiano G. Sabiu,
Inkyu C. Park(박인규)[University of Seoul]
- PCD-03
Head-on Collision of Fuzzy/Cold Dark Matter Halos
Hyeonmo Koo(구현모), Dongsu Bak(박동수), Sangnam Park(박상남)[University of Seoul]

천문우주관측기술(Astrophysical Techniques)

- PAT-01
Development of Mirror Manufacturing with 3D Printing Method
Young-Soo Kim(김영수), Yunjong Kim(김윤종), Jihun Kim(김지훈), Seonghwan Choi(최성환),
Jeong-Yeol Han(한정렬)[KASI]
- PAT-02
Formation Flying SNIPE Mission Data
Jaejin Lee(이재진)[KASI], SNIPE Team
- PAT-03
Design for new structure of IGRINS-2 control software as a facility instrument of the Gemini observatory.
Hye-In Lee(이혜인)[KASI], Francisco Ramos, Hwihyun Kim(김휘현)[Gemini Observatory],
Heeyoung Oh(오희영), Jae-Joon Lee(이재준), Chan Park(박찬)[KASI],
Pablo Prado, Ignacio Arriagada[Gemini Observatory], Ueejeong Jeong(정위정),
Moo-Young Chun(천무영)[KASI], Young Sam Yu(유영삼)[Gemini Observatory],
Sunggho Lee(이성호), In-Soo Yuk(육인수)[KASI]
- PAT-04
Status and Plan of KMTNet Operation
Chung-Uk Lee(이충욱), Dong-Joo Lee(이동주), Yongseok Lee(이용석),
Hyunwoo Kang(강현우), Dong-Jin Kim(김동진), Sang-Mok Cha(차상목),
Seung-Lee Kim(김승리), Eon-Chang Sung(성언창), Seung-Cheol Bang(방승철),
Sungwook E. Hong(홍성욱), Jae-Woo Kim(김재우)[KASI]

천문화학/천문생물학(Astrophysical Techniques)

- PAB-01
Complex organic molecules detected in twelve high-mass star-forming regions with Atacama Large Millimeter/submillimeter Array (ALMA)
Giseon Baek(백기선), Jeong-Eun Lee(이정은)[KHU], Tomoya Hirota[SOKENDAI],
Kee-Tae Kim(김기태)[KASI], KaVA Star-Formation Science Working Group

포스터 발표

태양/태양계(Galaxy Evolution/Cosmology)

PSS-01

Development of a diagnostic coronagraph on the ISS: CODEX progress report
Yeon-Han Kim(김연한), Seonghwan Choi(최성환), Su-Chan Bong(봉수찬)[KASI],
Kyungsuk Cho(조경석)[KASI/UST], Jeffrey Newmark[NASA], Nat.

PSS-02

Effect of collisional thermalization process in a steady-state solar wind model
Hwanhee Lee(이환희), Jungjoon Seough(서정준)[KASI], Bo Li(Shandong University),
Yeon-Han Kim(김연한), Kyung-Suk Cho(조경석)[KASI]

PSS-03

A New Method for Quantitatively Classifying Solar Active Regions
Yeon Woo Jang(장연우), Sibaek Yi(이시백), Tetsuya Magara[KHU]

PSS-04

CODEX Data Processing
Su-Chan Bong(봉수찬), Jae-Ok Lee(이재옥), Ji-Hye Baek(백지혜), Jongyeob Park(박종엽)[KASI],
L. Reginald, Jeffrey S. Newmark[NASA]

PSS-05

The light field camera ray-tracing simulation for CLPS/GrainCams
Minabe Kim(김민배), Minsup Jeong(정민섭), Young-Jun Choi(최영준)[KASI],
Sungsoo S. Kim(김성수)[KHU]

항성, 항성계/외계행성

PSA-01

NIR high spectral resolution observations of AG Car
Jae-Joon Lee(이재준), Hyun-Jeong Kim(김현정)[KASI]

PSA-02

Very early light curve of Type Ia Supernova SN 2021aefx
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