



XXXIst General Assembly
International Astronomical Union

IAUGA 2022

August 2 (Tue) - 11 (Thu), 2022
BEXCO, Busan, Rep. of Korea



PROGRAM BOOK





XXXIst General Assembly
International Astronomical Union

IAUGA 2022

C O N T E N T S

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WELCOME MESSAGE

On behalf of the IAUGA 2022 National Organizing Committee, it is my greatest honor and privilege to invite you all to the XXXIst International Astronomical Union General Assembly (IAUGA 2022), to be hosted at BEXCO in Busan, Republic of Korea between August 2 and 11, 2022.

Initially, the NOC proposed “Astronomy for all” as the main theme, in a hope to make the Busan GA as inclusive as possible. As the COVID-19 pandemic hit the globe in early 2020, for the first time in the IAU history, the GA 2022 is being organized as a hybrid meeting, which allows both in-person and remote participation. New virtual elements such as remote talks, e-Talks, e-Posters, and an online chatting platform will be introduced to the GA logistics. After more than two years of online meetings, we believe astronomers are eager to meet our colleagues face-to-face. The NOC sincerely hopes that scientific programs will run smoothly for both in-person attendees and remote participants during the GA.

The host city, Busan, is the second largest city in the Republic of Korea, where contemporary lifestyle meets long-standing history with the state-of-the-art facilities and world-class infrastructure. All in-person attendees shall appreciate her rich natural, cultural, and urban legacies; and have a rewarding and productive time in every way in and around the GA.

Please join us for the festival of Astronomy in Busan.



Prof. Hyesung Kang

Chair

IAUGA 2022 National Organizing Committee

ORGANIZING COMMITTEE

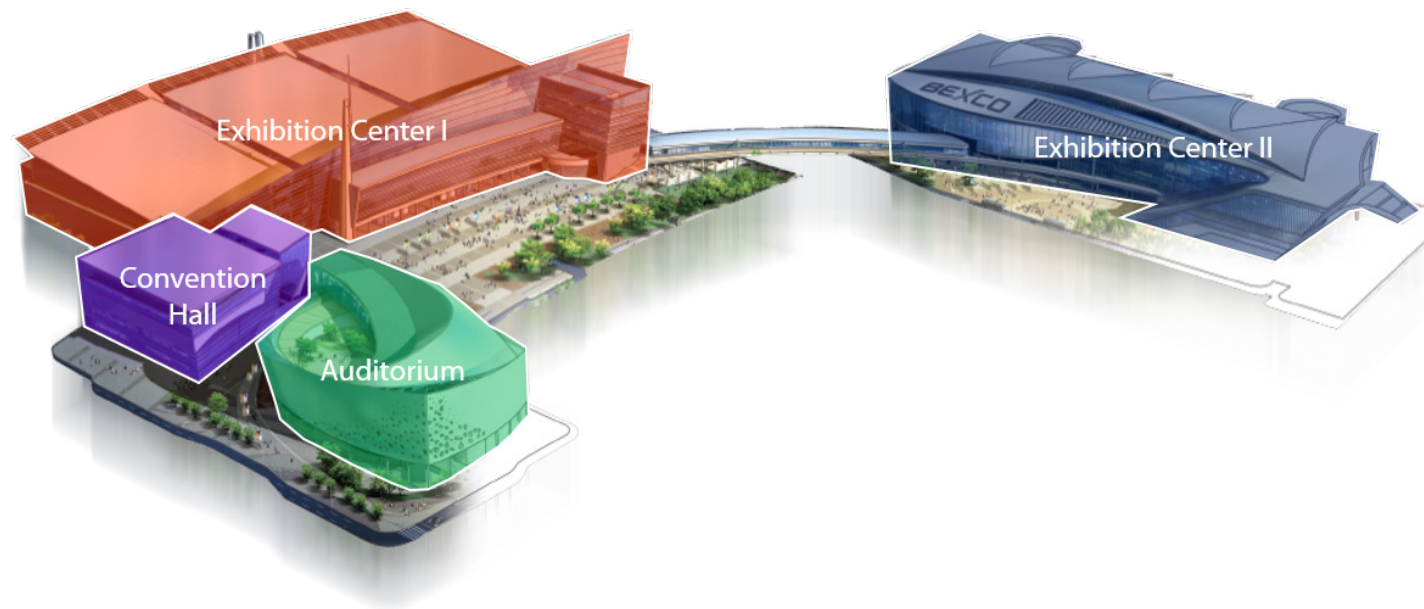
IAU Executive Committee

President	Debra Meloy Elmegreen	
President-elect	Willy Benz	
General Secretary	José Miguel Rodríguez Espinosa	
Assistant General Secretary	Diana Mary Worrall	
Vice-President	Laura Ferrarese	Solomon Belay Tessema
	Hyesung Kang	Ilya G. Usoskin
	Daniela Lazzaro	Junichi Watanabe
Advisor	Ewine F. van Dishoeck	Maria Teresa V.T. Lago

IAUGA 2022 National Organizing Committee

Chair	Hyesung Kang	
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Junga Hwang	Sang-Sung Lee	
Ho-Seong Hwang	Seo-gu Lee	
Chunglee Kim	Soo-Chang Rey	
Dohyeong Kim	Hyunjin Shim	
Ji-hoon Kim	In-Ok Song	
Jongsoo Kim	Hong-Jin Yang	
Minjin Kim	Suk-Jin Yoon	
Sungsoo S. Kim	Sung-Chul Yoon	

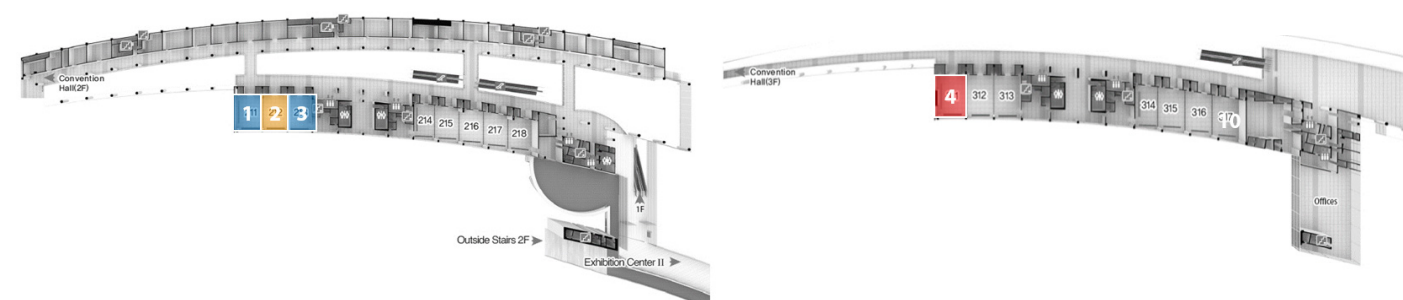
FLOOR PLAN



Auditorium

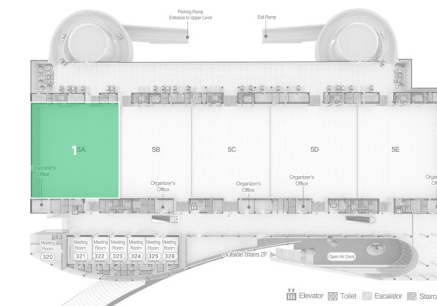
Floor	Room No.	Purpose
2F	Auditorium	- Opening Ceremony - Symposium Plenary Lectures - Public Lectures - Invited Discourses - Prize Lectures (Gruber, Kavli, Shaw) - Closing Ceremony

Exhibition Center I



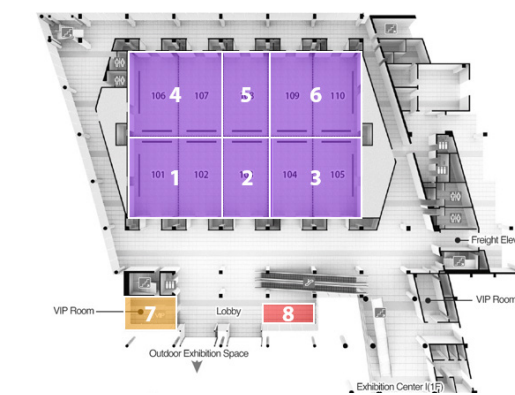
Floor	No.	Room No.	Purpose
2F	1	EC 211	E-Newspaper
	2	EC 212	Quiet Room / First Aid
	3	EC 213	Childcare
3F	4	EC 311	OAO, OYA, OAD, OAE

Exhibition Center II

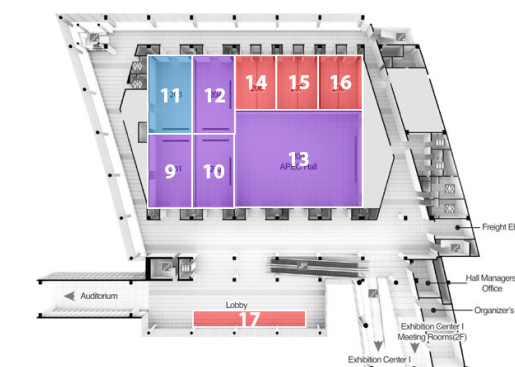


Floor	Room No.	Purpose
3F	EC 2 Hall 5A	- YA Lunch - WiA Lunch - Conference Dinner

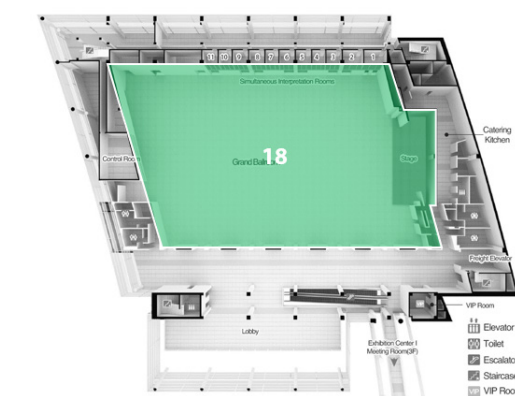
Convention Hall



Floor	No.	Room No.	Purpose
1F	1	CH 101	- Symposia - Division Meetings - Institutional Meetings
	2	CH 103	- Focus Meetings - Division Meetings - Institutional Meetings
	3	CH 104	- Symposia - Division Meetings - Institutional Meetings
1F	4	CH 106	- Focus Meetings - Division Meetings - Institutional Meetings
	5	CH 108	- Division Meetings - Institutional Meetings
	6	CH 109	- Focus Meetings - Division Meetings - Institutional Meetings
	7	VIP Room	NOC Office
	8	CH Lobby 1	Information Desk



1F	9	CH 201	- Small General Purpose Room (SGP) - Division Meetings	
	10	CH 202	- Focus Meetings - Division Meetings - Institutional Meetings	
	11	CH 203	Press Office	
	12	CH 204	Preview Room	
	2F	13	CH 205	- Symposia - Division Meetings - Institutional Meetings
		14	CH 206	PCO Office
		15	CH 207	IAU Office
		16	CH 208	IAU Secretariat
17		CH Lobby 2	Registration Desk	
3F	18	Grand Ballroom	Exhibition / e-Posters	



PROGRAM AT A GLANCE

	Week 1				Sat	Sun	Week 2			
	Tuesday August 2	Wednesday August 3	Thursday August 4	Friday August 5	Aug. 6	Aug. 7	Monday August 8	Tuesday August 9	Wednesday August 10	Thursday August 11
08:15-09:45		Morning Plenary S368	Morning Plenary S369	Morning Plenary S372			Morning Plenary S370	Morning Plenary S371	Morning Plenary S373	Morning Plenary S374
09:45-10:30	Morning e-Poster S368, S369, S372 FM4, FM5, FM8, FM9 Coffee Break	Morning e-Poster S368, S369, S372 FM4, FM5, FM8, FM9 Coffee Break	Morning e-Poster S368, S369, S372 OAO, OAD, OAE, OYA Coffee Break	Morning e-Poster Division Coffee Break			Morning e-Poster Division Coffee Break	Morning e-Poster S370, S371, S373, S374 FM1, FM2, FM10 Coffee Break	Morning e-Poster S370, S371, S373, S374 FM3, FM6, FM7 Coffee Break	Morning e-Poster S370, S371, S373, S374 FM3, FM6, FM7 Coffee Break
10:30-12:00	Morning Oral Session S368-1 S369-1 S372-1 OAO-1 FM4-1 FM5-1 FM8-1 FM9-1	Morning Oral Session S368-4 S369-4 S372-4 OAD-1 FM4-4 FM5-4 FM8-4 FM9-4	Morning Oral Session S368-7 S369-7 S372-7 OAE-1 FM1-1 FM2-1 FM10-1 OYA-1	Morning Oral Session Div. A-1 Div. B-1 Div. C-1 Div. D-1 Div. E-1 Div. F-1 Div. G-1 Div. H-1 Div. J-1			Morning Oral Session Div. A-4 Div. B-4 Div. C-4 Div. D-4 Div. E-4 Div. F-4 Div. G-4 Div. H-4 Div. J-4	Morning Oral Session S370-1 S371-1 S373-1 S374-1 FM1-4 FM2-4 FM10-4 WG1-3 WGAC	Morning Oral Session S370-4 S371-4 S373-4 S374-4 FM3-1 FM6-1 FM7-1 WG2-4	Morning Oral Session S370-7 S371-7 S373-7 S374-7 FM3-4 FM6-4 FM7-4 WG4-3
12:00-13:30	Lunch	Lunch Gruber Prize Lecture	Lunch Kavli Prize Lecture	Lunch Young Astronomers Lunch			Lunch Women in Astronomy Lunch	Lunch	Lunch Shaw Prize Lecture	Lunch
13:30-15:00	Afternoon Oral Session 1 S368-2 S369-2 S372-2 OAO-2 FM4-2 FM5-2 FM8-2 FM9-2	Afternoon Oral Session 1 S368-5 S369-5 S372-5 OAD-2 FM4-5 FM5-5 FM8-5 FM9-5	Afternoon Oral Session 1 S368-8 S369-8 S372-8 OAE-2 FM1-2 FM2-2 FM10-2 OYA-2	Afternoon Oral Session 1 Div. A-2 Div. B-2 Div. C-2 Div. D-2 Div. E-2 Div. F-2 Div. G-2 Div. H-2 Div. J-2			Afternoon Oral Session 1 Div. A-5 Div. B-5 Div. C-5 Div. D-5 Div. E-5 Div. F-5 Div. G-5 Div. H-5 Div. J-5	Afternoon Oral Session 1 S370-2 S371-2 S373-2 S374-2 FM1-5 FM2-5 FM10-5 WG1-4	Afternoon Oral Session 1 S370-5 S371-5 S373-5 S374-5 FM3-2 FM6-2 FM7-2 WG3-3	Afternoon Oral Session 1 S370-8 S371-8 S373-8 S374-8 FM3-5 FM6-5 FM7-5 WG4-4
15:00-15:15	Break						Break			
15:15-16:45	Afternoon Oral Session 2 S368-3 S369-3 S372-3 OAO-3 FM4-3 FM5-3 FM8-3 FM9-3	Afternoon Oral Session 2 S368-6 S369-6 S372-6 OAD-3 FM4-6 FM5-6 FM8-6 FM9-6	Afternoon Oral Session 2 S368-9 S369-9 S372-9 OAE-3 FM1-3 FM2-3 FM10-3 OYA-3	Afternoon Oral Session 2 Div. A-3 Div. B-3 Div. C-3 Div. D-3 Div. E-3 Div. F-3 Div. G-3 Div. H-3 Div. J-3			Afternoon Oral Session 2 OAO-4 OAD-4 OAE-4 OYA-4 WG1-1 WG2-1 WG3-1 WG4-1	Afternoon Oral Session 2 S370-3 S371-3 S373-3 S374-3 FM1-6 FM2-6 FM10-6 WG2-3	Afternoon Oral Session 2 S370-6 S371-6 S373-6 S374-6 FM3-3 FM6-3 FM7-3 WG3-4	Afternoon Oral Session 2 S370-9 S371-9 S373-9 S374-9 FM3-6 FM6-6 FM7-6 pro-am WG (WG 5)
16:45-17:30	Coffee Break (15 min.)	Afternoon e-Poster S368, S369, S372 FM4, FM5, FM8, FM9 Coffee Break	Afternoon e-Poster S368, S369, S372 FM1, FM2, FM10 ODE Prize Talks Coffee Break	Afternoon e-Poster Division Coffee Break			Afternoon e-Poster OAO, OAD, OAE, OYA WG1, WG2, WG3, WG4 Coffee Break	Afternoon e-Poster S370, S371, S373, S374 FM1, FM2, FM10 Coffee Break	Afternoon e-Poster S370, S371, S373, S374 FM3, FM6, FM7 Coffee Break	Coffee Break
17:30-18:30	Opening Ceremony Welcome Reception	Invited Discourse 1	Invited Discourse 2				Afternoon Oral Session 3 OAO-5 OAD-5 OAE-5 OYA-5 WG1-2 WG2-2 WG3-2 WG4-2	Conference Dinner	Invited Discourse 3	Closing Ceremony Flag Hand-over Ceremony
18:30-19:00										
19:00-19:30										
19:30-20:00				Public Lecture 1	Public Lecture 2					
20:00-20:30										

- S368 Machine Learning in Astronomy: Possibilities and Pitfalls
- S369 The Dawn of Cosmology & Multi-Messenger Studies with Fast Radio Bursts
- S370 Winds of Stars and Exoplanets
- S371 Honoring Charlotte Moore Sitterly: Astronomical Spectroscopy in the 21st Century
- S372 The Era of Multi-Messenger Solar Physics
- S373 Resolving the Rise and Fall of Star Formation in Galaxies
- S374 Astronomical Hazards for Life on Earth
- FM 1 Physics of Relativistic Jets on All Scales
- FM 2 Towards a World Standard for Dark and Quiet Sky Protection
- FM 3 Consensus Cosmic Shear in the 2020s
- FM 4 UV Insights to Massive Stars and Young Stellar Clusters
- FM 5 Beyond the Goldilocks Zone: the Effect of Stellar Magnetic Activity on Exoplanet Habitability
- FM 6 Dynamics of the ICM: Radio and X-ray Observations and Theory
- FM 7 Astrometry for 21st Century Astronomy
- FM 8 Planetary Astronomy via Telescopic and Microscopic Approaches
- FM 9 Stellar Synthetic Spectra to Study Stellar Populations in the Gaia Era
- FM 10 Synergy of Small Telescopes, and Large Surveys for Solar System & Exoplanetary Bodies Research
- WG1 Astronomy for Equity and Inclusion
- WG2 Global Coordination of Ground and Space Astrophysics
- WG3 Junior Members
- WG4 Women in Astronomy
- WG5 Professional-Amateur Relations in Astronomy

INVITED SPEAKERS



Early Science with the James Webb Space Telescope

Dr. Klaus Pontoppidan STScI

[Invited Discourse 1](#)

August 3, 2022 (Wed) 17:30-18:30



The Hubble Tension

Prof. Sherry Suyu MPA/TUM

[Invited Discourse 2](#)

August 4, 2022 (Thu) 17:30-18:30



Superflares and super Coronal Mass Ejections on Solar-type Stars

Dr. Hiroyuki Maehara NAOJ

[Invited Discourse 3](#)

August 10, 2022 (Wed) 17:30-18:30



Imaging a Supermassive Black hole

Prof. Sheperd S. Doeleman Harvard & Smithsonian

[Public Lecture 1](#)

August 5, 2022 (Fri) 19:00-20:30



The State of the Universe

Prof. Brian P. Schmidt Australian National University

[Public Lecture 2](#)

August 6, 2022 (Sat) 19:00-20:30

PRIZE LECTURES

Gruber Prize Lecture

A New Era of High Angular Resolution Astronomy

August 3, 2022 (Wed) 12:15-13:15

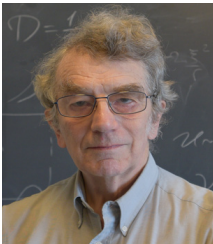


Dr. Frank Eisenhauer
Max Planck Institute for
extraterrestrial Physics

Kavli Prize Lecture

The Historical Road and Future Path of Helio- and Asteroseismology

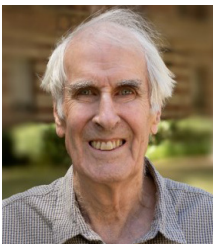
August 4, 2022 (Thu) 12:15-13:15



**Prof. Jørgen Christensen-
Dalsgaard**
Aarhus University



Prof. Conny Aerts
KU Leuven & Radboud
University



Prof. Roger Ulrich
UCLA

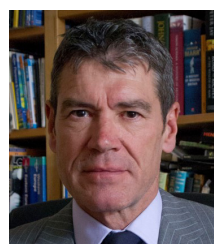
Shaw Prize Lecture

Gaia and Global Space Astrometry: A Historical Perspective

August 10, 2022 (Wed) 12:15-13:15



Prof. Lennart Lindegren
Lund University



Prof. Michael Perryman
European Space Agency



XXXIst General Assembly
International Astronomical Union

IAUGA 2022

PROGRAM

WEEK 1:

August 2 (Tue) – August 5 (Fri), 2022

WEEK 2:

August 8 (Mon) – August 11 (Thu), 2022



PROGRAM

WEEK 1

Day 1_August 2 (Tue)

Registration 2F Lobby, Convention Hall

Morning e- Poster 09:45-10:30, Grand Ball Room

Coffee Break 09:45-10:30, Grand Ball Room

Morning Oral Session 10:30-12:00, Convention Hall

Name	Abs. No.	Title
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IAUS 368-1

CH 205

Sara Webb	3253	Tutorial for the broader community
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IAUS 369-1

CH 101

Evan Keane	2678	Recent results from FRB surveys
Keith Bannister	1820	Fast Radio Bursts with ASKAP – in 3 acts
Kaustubh Rajwade	1552	Pinpointing FRBs in space and time: A study of localised FRBs from MeerTRAP
Franz Kirsten	1972	Pinpointing repeating FRBs with EVN-PRECISE
Joeri Van Leeuwen	2463	The short, high-DM FRB sky in sharp view
Omar Ould-Boukattine	2152	Probing the highest-energy FRB repeater bursts using thousands of hour observing campaigns

IAUS 372-1

CH 104

Robert Allen	2360	Parker Solar Probe in the Multi-Spacecraft Era
Bin Chen	2620	Recent Results of Solar Microwave Imaging Spectroscopy
Durgesh Tripathi	716	The Aditya-L1 Mission of the Indian Space Research Organization

OAO-1

CH 108

Jorge Rivero González	2973	IAU100: An Exciting Year Celebrating Astronomy
Eduardo Penteadó	3434	IAU100 NameExoWorlds: naming stars and exoplanets through the public engagement

Somaya Saad	2328	Outreach activities in Egypt
Suresh Bhattacharai	2698	Astronomy Outreach in Nepal: Creating a Legacy of Science Outreach

FM 4-1

CH 202

Andreas Sander	625	Massive Stars in the Far and Extreme Ultraviolet
Jorick Vink	849	X-Shooting ULLYSES
Kathryn Grasha	386	Non-solar scaled abundances for massive stars: the chemical abundance breakthrough for galaxy evolution
Olivier Verhamme	1501	Weakening the Winds with the ULLYSES Data Set: Examining the Presence of a Bi-Stability Jump

FM 5-1

CH 103

Bidya Binay Karak	297	Recent Developments in the Babcock-Leighton Dynamo Theory for the Solar Cycle
Vindya Vashishth	2902	Modelling the occurrence of grand minima in sun-like stars using a dynamo model
Rakesh Yadav	1713	Effect of planetary magnetic fields in the planetary habitability

FM 8-1

CH 106

Sei-ichiro Watanabe	757	Scientific discoveries of the Hayabusa2 mission, sample return from G-type asteroid Ryugu
Dante Lauretta	3073	OSIRIS-REx – Status of NASA's Near-Earth Asteroid Sample Return Mission
Beth Ellen Clark	2882	Overview of Space Weathering on Asteroid (101955) Bennu

FM 9-1

CH 109

Nathan Sandford	1325	Self-consistent stellar chemical abundance measurements: From near to far, high to low (resolution)
Yuan-Sen Ting	504	How many elements matter
Sven Buder	1408	Galactic Archaeology with spectra from the GALAH survey
Maria Luiza Linhares Dantas	2113	Old super-metal rich stars in the solar vicinity: from where did they come?

Lunch Break

12:00-13:30

Afternoon Oral Session 1

13:30-15:00, Convention Hall

Name	Abs. No.	Title	
IAUS 368-2			CH 205
Guillermo Cabrera-Vives	3009	Classic Machine Learning vs Deep Learning: when, why and how?	
Annalisa Pillepich	2178	ERGO-ML: Extracting Reality from Galaxy Observables with Machine Learning	
IAUS 369-2			CH 101
Yin-Zhe Ma	1096	Cosmological uses of Fast Radio Bursts	
Esan Mouli Ghosh	2696	Constraining the value of Hubble's Constant using the Redshift-Dispersion Measure distribution of observed Fast Radio Bursts	
Khee Gan Lee	2558	The FLIMFLAM Survey for FRB Foreground Mapping	
Sunil Simha	2235	Searching for the source of excess extragalactic DM of FRBs	
Liam Connor	2500	What can we expect from FRB gravitational lensing?	
Mawson Sammons	1094	The Effect of Gravitational Lensing on Fast Transient Event Rates	
IAUS 372-2			CH 104
Sami Khan Solanki	709	The early science phase of Solar Orbiter	
Thomas Rimmele	1250	The Daniel K. Inouye Solar Telescope: status update and first results	
Hideyuki Hotta	944	Generation of the solar magnetic field	
OAO-2			CH 108
Panel Discussion		IAU Astronomy Outreach under the IAU Strategic Plan 2020-2030	
Panel Discussion		The role of the IAU members in the implementation of the Strategic Actions under Goal 4	
FM 4-2			CH 202
Hugues Sana	2990	Massive Binaries and the UV Connection	
Calum Hawcroft	2863	New Empirical Mass-Loss Rates and Wind Properties of Massive Stars at Low Metallicity	
Gautham Narayana Sabhahit	1483	Mass-Loss Implementation and Temperature Evolution of Very Massive Stars	

IAUS 369-3

CH 101

Lachlan Marnoch	1945	Finding the signature of a dwarf galaxy halo on a fast radio burst
Timea Kovacs	2604	Constraining the dispersion measure and rotation measure contribution of FRB host galaxies using IllustrisTNG50
Kaitlyn Shin	1734	Inferring the FRB Distance and Energy Distributions with CHIME/FRB

IAUS 372-3

CH 104

Allan Sacha BRUN	1196	Powering solar-type stars magnetism: how are magnetic cycles established and driven?
Ilya Usoskin	1201	Solar cyclic activity reconstruction now extends to cover the last millenniumZ
Hanna Strecker	1548	Tracking active regions from the near-Earth to the solar far side by combining SDO/HMI and SO/PHI data
Bhuwan Joshi	1515	Origin of extreme solar eruptive activity from the active region NOAA 12673 and the largest flare of solar cycle 24
Ting Li	339	Solar flare-CME association

OAO-3

CH 108

Ana Ulla-Miguel	1969	OAO NOC Spanish activities
Dhanushka Amaradasa	2461	Case study: online hands-on astronomy activities for children during COVID-19
MANISHA DWA	2651	Astronomy outreach for inclusive environment in Nepal, it's impacts and challenges.
Maria Fernanda Durán	2518	Breaking the Barriers: Adding inclusive elements to astronomy outreach
Mayssa El Yazidi	1219	Inclusion and intercultural aspects of Astro-Tourism activities: Astro Camping Project in Djerba: The First step to develop Astronomy in Tunisia
Meriem Elyajouri	2455	Public Astronomy in Morocco: opportunities & challenges
Samir Dhurde	2225	Low-cost and Large-scale : a key to reaching most people
Tan Vu Nguyen	1449	A story about astronomy outreach in Vietnam: From an amateur club to a growing #scicomm ecosystem
Yumna Majeed	2771	Space Education and Outreach in Pakistan - Exploration by Yumna
Zara Randriamanakoto	1608	Building a network of amateur astronomers in Madagascar

FM 4-3

CH 202

Miriam Garcia	923	Very Massive Stars and Very Metal-Poor Stars: Connected Topics?
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Aida Wofford	1067	Are Very Massive Stars Truly Needed to Explain the Extreme Broad He II Emission of NGC 3125-A1?
Grace Telford	1804	The Ionizing Spectrum of an Extremely Metal-Poor O Star Powering an HII Region
Karla Arellano-Cordova	1340	Modeling the Ionizing Spectrum of Local Star-Forming Galaxies
Peter Senchyna	893	Direct Constraints on the Massive Stars Underlying Strong High-Ionization Nebular Emission Locally

FM 5-3

CH 103

Ying Liu	782	On the Formation of Solar Superstorms
Binal Patel	1539	Coronal mass ejections associated with DH type II radio bursts: near-Sun characteristics and interplanetary propagation
Julián Alvarado-Gómez	939	Coronal Mass Ejections and Exoplanets: A Numerical Perspective
Panel Discussion		

FM 8-3

CH 106

Patrick Michel	745	The impact process on small bodies: review of current knowledge and implications on the Solar System history
Gonzalo Tancredi	868	Dust trails generated on the DART experiment
Irina Belskaya	1514	The potential of optical polarimetry for asteroid studies
Jooyeon Geem	1126	Polarimetric Study on the Hydrates Asteroids

FM 9-3

CH 109

Mashhoor ALWARDAT	381	Al-Wardat's Method for analyzing binary and multiple stellar systems
Awni Kasawneh	1314	Stellar parameters of the close binary system: HIP 27758
Thayse Pacheco	1576	A grid of subdwarf's synthetic spectra to study hot stellar components in old stellar populations
Matheus Bernini Peron	1236	X-rays in stellar atmospheres: The case of cool B supergiants

Opening Ceremony

17:15-18:30, Auditorium

Welcome Reception

18:40-20:00, Auditorium Lobby

Day 2_August 3 (Wed)

Morning Plenary

08:15-09:45, Auditorium

Name	Abs. No.	Title
IAUS 368		
George Djorgovski	1791	Machine Learning in Astronomy: From the Star-Galaxy Separation to a Collaborative Human-AI Discovery
Ofer Lahav	2189	Deep Learning in Astronomy: Trends and Challenges

Morning e- Poster

09:45-10:30, Grand Ball Room

Coffee Break

09:45-10:30, Grand Ball Room

Morning Oral Session

10:30-12:00, Convention Hall

Name	Abs. No.	Title	
IAUS 368-4			CH 205
Renee Hlozek	1870	Existing data sets for machine learning in Astronomy	
Panel Discussion		Methodology for fusion of large datasets	
IAUS 369-4			CH 101
Tarraneh Eftekhari	1860	The Host Galaxies and Environments of Fast Radio Bursts	
Adaeze Lorreta Ibik	1704	A search for persistent radio sources associated with repeating fast radio bursts from CHIME/FRB	
Calvin Leung	1170	VLBI Localization of a One-Off FRB to an Edge-On Galaxy	
Marcin Glowacki	1134	A commensal detection of HI and FRB localisation with ASKAP	
Shivani Bhandari	826	A growing diversity in the types of host galaxies and local environments for fast radio bursts.	
Fabian Jankowski	1797	Implications from the first MeerTRAP Fast Radio Burst sample	
IAUS 372-4			CH 104
Timothy Bastian	2283	Solar Observations with ALMA: a New Frontier	
Maryam Saberi	956	MHD waves in chromospheric fibrillar structures as observed with ALMA	
Devojyoti Kansabanik	389	Estimating physical parameters of quiet Sun corona using low-frequency spectro-polarimetric radio images	

Yajie Chen 2444 Forward Modeling of Solar Coronal Magnetic-field Measurements Based on a Magnetic-field-induced Transition in Fe X

OAD-1

CH 108

Vanessa McBride 3041 Overview of OAD Activities
 Peter Gluckman 3042 The changing shape of science diplomacy – the role of the International Science
 Ian Corbett 3043 External review of the OAD
 Ramasamy Venugopal 969 10 Years of Astro4dev Projects: Case Studies from Around the World
 Dana Ficcut-Vicas 423 Linking the outcomes of the IAU OAD Projects to the UN Sustainable Development Goals (SDGs)
 María Alejandra Díaz Teodori 2839 The Impact of IAU OAD Projects on UN Sustainable Development Goals
 Panel Discussion History and Future of Astronomy for Development

FM 4-4

CH 202

Paul Crowther 416 Observations of Massive Stars in Extragalactic Star Clusters
 Dooseok Jung 1024 Universal Upper Ends of the Stellar Initial Mass Function in the Young and Compact LEGUS clusters
 Katarzyna Nowak 978 Could Kilomasers Pinpoint Supermassive Stars?
 Mattia Sirressi 1433 Clues to Massive Star Clusters as Engines of Galaxy Evolution
 Naira Azatyan 1749 The Stellar Content of UCHII Regions: The Molecular Cloud GRSMC 045.49+00.04

FM 5-4

CH 103

Antoaneta Antonova 1451 Recent studies of stellar flares across the electromagnetic spectrum
 Timothy Bastian 2473 Radio Dynamic Spectroscopy of UV Cet and Prox Cen
 Thomas Konings 950 The effects of stellar flares on the composition and spectra of gaseous exoplanets orbiting M dwarfs
 Han He 1907 Characteristic time of stellar flares on Proxima Centauri
 Eric Feigelson 1598 Pre-main Sequence Stellar Megaflares and Young Planetary Atmospheres

FM 8-4

CH 106

Takafumi Ootsubo 2565 Hydrated silicates on evolved cometary nuclei observed in the mid-infrared
 Karri Muinonen 1944 Asteroid physical characteristics from Gaia photometry

Mingyeong Lee	1456	Laboratory study for the light scattering on planetary regolith with 3D printed models
Flora Paganelli	1313	Next Generation Ground-Based Planetary Radar Science at NRAO
Surhud More	1274	The search for Planet Nine using the Subaru Telescope
Amelia Yu	1370	Previously Undiscovered Exoplanets Detected with Deep Learning in the Data Collected by the Kepler Space Telescope
Hangbin Jo	913	Numerical study of low-velocity dust ejection from Phaethon and its connection to the Geminid meteoroid stream

FM 9-4
CH 109

Roel Lefever	1292	The challenges of modelling Wolf-Rayet atmospheres: Prescribed and dynamically-consistent winds
Luisa Fernanda Rodríguez Díaz	1794	Current status and future prospects of the STAGGER grid
Jonas Klevas	2873	3D hydrodynamical model atmospheres of M-dwarfs
Yixiao Zhou	2007	3D model atmospheres and line formation calculations with non-standard chemical compositions

Gruber Prize Lecture

12:15-13:15, Auditorium

Frank Eisenhauer	A New Era of High Angular Resolution Astronomy
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Afternoon Oral Session 1

13:30-15:00, Convention Hall

Name	Abs. No.	Title
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IAUS 368-5
CH 205

David Parkinson	555	Detecting complex sources in large surveys using an apparent complexity measure
Dennis Crake	2021	In Search of the Peculiar: An Unsupervised Approach to Anomaly Detection in the Transient Universe.
Didier Fraix-Burnet	1003	Unsupervised classification: a necessary step for Deep Learning?
Gordian Edenhofer	1049	Iterative Grid Refinement: Approximate Gaussian Processes for Billions of Parameters
Jeroen Audenaert	1830	Unraveling the physical mechanisms of pulsating stars through a multimodal and multidisciplinary machine learning approach
Lukasz Wyrzykowski	984	Time-domain photometry and machine learning with OGLE and Gaia

IAUS 369-5

CH 101

Cherry Ng	1754	Observational constraints on FRB progenitors
Akshatha Gopinath	1967	Propagation effects in fast radio bursts as seen by the LOFAR telescope
Casey Law	1317	Finding FRB Sources without FRBs
Danica Scott	2577	The high-time resolution CRAFT FRB sample
Jakob Faber	1807	Compelling Morphologies of Fast Radio Bursts with CHIME/FRB Baseband Data
Ryan Mckinven	1717	Multi-year Polarimetric Monitoring of Repeating CHIME/FRB Sources (on behalf of the CHIME/FRB collaboration)

IAUS 372-5

CH 104

Aline Vidotto	1191	How has the solar wind evolved to become what it is today?
Adam Finley	1465	Stirring the Base of the Solar Wind
Vishal Upendran	517	Exploring the formation solar wind, switchbacks and Quiet Sun heating
Marco Romoli	2795	First science with Solar Orbiter Metis coronagraph
Frédéric Auchère	2480	Solar Orbiter/EUI very wide field observations of the EUV corona

OAD-2

CH 108

Olayinka Fagbemirol	327	Astronomy Education Outreach Efforts for Development in Africa
Onuche Ogu	2203	Impact of IDP Children Astronomy Outreach Project: A Data driven approach
Ahmed Estiak	2018	Investigating the effect of using the "Talking Planets" mobile application to increase students' engagement and knowledge of astronomy
Antonio J. Porrás-Valverde	2222	Central American — Caribbean Bridge in Astrophysics
Mayssa El Yazidi	1271	Astronomical heritages and facilities in Tunisia
Nicolás Vásquez	695	Astrotourism around the middle of the world
SYED NAJAMUL HASAN	1708	Astronomy Education during the pandemic

FM 4-5

CH 202

Sara Beck	633	STARS AND GAS IN CLUSTERS: FEEDBACK, EFFICIENCY AND EMERGENCE
Keunho Kim	1848	How Ionizing Radiation Escapes from Compact Star-Forming Regions in the Sunburst Galaxy
Lena Komarova	499	Lyman Continuum-Driven Superwind in Green Pea Analog Mrk 71

Michael Rutkowski	2177	OVI Emission in the Halos of $z \sim 0.25$ Star-Forming Galaxies
Varsha Ramachandran	374	Massive Star Feedback in the Magellanic Clouds and the Tidal Bridge

FM 5-5

CH 103

Kosuke Namekata	1854	Hunting for stellar coronal mass ejections
Krisztián Vida	1575	Where are the stellar coronal mass ejections?
Heidi Korhonen	2346	Trying to catch the elusive stellar coronal mass ejections
Emilia Kilpua	2347	Space weather response to large-scale solar wind drivers

FM 8-5

CH 106

Tomoko Arai	2576	DESTINY+ asteroid flyby of Geminid parent Phaethon
Yuri Aikawa	2155	Chemical link between protostellar cores, protoplanetary disks, and primordial objects in the Solar system
Maria Drozdovskaya	1459	Chemical Provenances of Cometary Volatiles

FM 9-5

CH 109

Cis Lagae	496	Modelling the Milky Way's most metal-poor star
Gloria Canocchi	574	Improving planetary atmosphere characterization by 3D NLTE modeling of the stellar centre-to-limb effect
Xi Wang	349	Grids of 3D NLTE spectra in practice
Jack Mallinson	2400	Non-LTE impact of Ti I and Ti II on metal poor type star abundances

Break 15:00-15:15

Afternoon Oral Session 2 15:15-16:45, Convention Hall

Name	Abs. No.	Title
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IAUS 368-6

CH 205

Panel Discussion		Practical Problem Solving - including interpretability
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IAUS 369-6

CH 101

Dongzi Li	839	A Highly Variable Magnetized Environment in a Pulsar Binary resembling Fast Radio Bursts
Dany Vohl	2395	Searching for FRB persistent radio source counterparts in dwarf galaxies using LOFAR

Danté Hewitt	2069	Monitoring repeating fast radio bursts with the Nançay Radio Telescope
Inés Pastor-Marazuela	1976	Deciphering the origin of FRBs with Apertif
Kenzie Nimmo	1446	A burst storm from FRB 20200120E in an M81 globular cluster
Ketan R Sand	1756	High Time resolution burst morphology of FRB 20180916B with CHIME/FRB
Mark Snelders	2164	Microsecond-duration bursts from FRB 20121102A

IAUS 372-6

CH 104

Christian Moestl	1282	The heliosphere in 3D from multi-spacecraft observations
Roksoon Kim	916	CME-CME interaction in the interplanetary space: Observation and simulation
Juan Carlos Martinez Oliveros	2246	2Pi steroradian radio observations of the 28-10-2021 solar flare
Jinhye Park	2381	A revisit to the source regions of solar energetic particles by the synchronic potential field source surface model
Tingyu Gou	980	Complete restructuring of a magnetic flux rope during a solar eruption

OAD-3

CH 108

Sonal Asgotraa	3044	Astrostays : Creating sustainable livelihoods through Community Led Astro-tourism
Armine Patatanyan	2656	Astronomy for Mental Health
Nikhita Madhanpall	2770	Data Science Exposure through Astro4dev Hackathons
Hyung Mok Lee	2397	Development of Modern Astronomy in the Korean Peninsula
Areg Mickaelian	1438	Astronomy in the Crossroads of Inter- and Multi- Disciplinary Sciences
Tawanda Chingozha	2628	Role of Science in Development – the case of Astronomy

FM 4-6

CH 202

Gustavo Bruzual	2523	Modeling Young Star Cluster Populations
Jaehong Park	2567	Calibrating Excursion Set Reionization Models to Approximately Conserve Ionizing Photons
John Chisholm	3013	What lurks below the Lyman Limit? Unearthing the unseen ionizing continua of extragalactic massive star populations
Kaelee Parker	3012	Tracing Massive Star Populations with Neutral and Low-Ionization Gas

FM 5-6

CH 103

Aline Vidotto	1190	Stellar space weather effects on potentially habitable planets
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Judy Chebly	2593	Towards a better understanding of exoplanetary environments around cool stars
Robert Kavanagh	1154	Planet-enhanced activity from M dwarfs
Quentin Noraz	430	Evolution and diversity of the magnetism of the Sun and Sun-like stars
Panel Discussion		

FM 8-6

CH 106

Woojin Kwon	2157	A brief story of grain growth in young stellar objects
Shogo Tachibana	2213	Multi-Scale Understanding of C-type Near-Earth Asteroid (162173) Ryugu from Proximity Exploration by Hayabusa2 Spacecraft to Microanalysis of Returned Material
Maria Antonietta Barucci	493	Observing small bodies from light points to micro-particles

FM 9-6

CH 109

Hans-Günter Ludwig	2350	A library of high-resolution spectra of 3D model atmospheres
Anish Amarsi	1281	Accurate iron abundances of dwarf stars
Thomas Nordlander	790	3D abundance analysis of the most iron-poor stars
Tiago M. D. Pereira	2638	Speeding up 3D non-LTE spectral synthesis with neural networks
Piercarlo Bonifacio	993	Fiorella Castelli and her legacy

Afternoon e- Poster

16:45-17:30, Grand Ball Room

Coffee Break

16:45-17:30, Grand Ball Room

Invited Discourse 1

17:30-18:30, Auditorium

Klaus Pontoppidan	Early Science with the James Webb Space Telescope
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Day 3_August 4 (Thu)

Morning Plenary

08:15-09:45, Auditorium

Name	Abs. No.	Title
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IAUS 369

Victoria Kaspi	3076	Observational Properties of Fast Radio Bursts
J. Xavier Prochaska	3077	Mutli-wavelength studies and cosmological uses of FRBs

Morning e- Poster

09:45-10:30, Grand Ball Room

Coffee Break

09:45-10:30, Grand Ball Room

Morning Oral Session

10:30-12:00, Convention Hall

Name	Abs. No.	Title
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IAUS 368-7

CH 205

Eric Ford	1546	Enhancing Exoplanet Surveys via Physics-informed Machine Learning
Panel Discussion		GW/MMA

IAUS 369-7

CH 101

Sergey Popov	284	FRB Emission mechanism theories vs. observations and population studies
Di Li	2333	Toward an Evolutionary Picture of FRBs
Marcus Lower	1489	Radio-loud magnetars as Galactic fast radio burst analogues
Navin Sridhar	1910	Radio nebulae from ULX Bubbles as Precursors of Common Envelope Events and Persistent Counterparts to Fast Radio Bursts
Mayuresh Surnis	2011	Slowly rotating neutron stars as potential counterparts to repeating FRBs
Zorawar Wadiasingh	2496	Ultra-long Period Magnetars

IAUS 372-7

CH 104

Elena Khomenko	2730	Understanding solar local dynamo
Jin-Yi Lee	2508	Plasma heating along a current sheet in nonequilibrium ionization and non-Maxwellian electron velocity distribution
Gwangson Choe	292	Why Are Solar Prominences Filamentary?
Sneha Pandit	2249	Formation of activity indicators in a 3D model atmosphere

Jongchul Chae 676 Detection of Propagating Alfvénic Waves in the Solar Chromosphere

OAE-1

CH 108

Robert Hollow 1859 Astronomy Education at CSIRO – What is the Role of a National Organisation?

Suresh Bhattarai 2703 Advocating for Astronomy Education in Nepal

FM 1-1

CH 109

Kazuhiro Hada 845 Event Horizon Telescope Observations of M87

Elisabete M. De Gouveia Dal Pino 1036 Magnetic Reconnection and Particle Acceleration in Relativistic Jets

Jae-Young Kim 1359 Space-VLBI view of the heart of M87 by RadioAstron at 22 GHz

Guang-Yao Zhao 1188 Unravelling the Innermost Jet Structure of OJ 287 with GMVA+ALMA Observations

Ilje Cho 1142 The Intrinsic Structure of Sagittarius A* at 1.3cm and 7mm

FM 2-1

CH 103

James Lowenthal 2300 Overview of Artificial Light at Night and Dark & Quiet Skies II recommendations

John Hearnshaw 1141 Light pollution: a unified global solution is needed for a global environmental problem

Discussion

Sarah Brough 909 Impact of diffuse artificial light for different kinds of observations: optical wide field surveys

JAVIER DIAZ_CASTRO 683 The OTPC (Technical Office for the Protection of the quality of the Sky) of the IAC. Experience on Sky Law regulation

Zouhair Benkhaldoun 937 Site Protection in Morocco: Modelling the light pollution

Richard Wainscoat 1075 Protection of the dark night sky over Hawaii's observatories

Ramotholo Sefako 2159 SAAO Site Protection against Light and Dust Pollution

Abd El Fady Morcos 2029 Monitoring Light pollution at Kottamia Astronomical Observatory

Alemiye Mamo Yacob 1523 Astronomical site protection in Ethiopia

Discussion

Antonia Varela 2740 Starlight Foundation: Night sky preservation and local socio-economic development

Hidehiko Agata 1200 The status of light pollution in Japan and its relation to astro-tourism

IAUS 369-8

CH 101

Shriharsh Tendulkar	3059	Multi-messenger and Multi-wavelength observations of FRBs
George Younes	2467	Dissecting the radio/X-ray connection in the FRB-emitting magnetar SGR 1935+2154 and implications for the rest of the population
Kelly Gourdji	2398	Testing a neutron star merger origin for some FRBs
James Chibueze	280	A MeerKAT, e-MERLIN, H.E.S.S. and Swift search for persistent and transient emission associated with three localised FRBs
Suryarao Bethapudi	2431	FRB 20180916B observing campaigns using uGMRT and Effelsberg
Yuu Niino	2589	High time-resolution optical limits on bursts from repeating FRB 20190520B by simultaneous 24.4 fps observations with Tomo-e Gozen

IAUS 372-8

CH 104

Yong-Jae Moon	1961	Application of Deep Learning to Solar and Space Weather Data
Neal Hurlburt	833	Heliophysics Events Knowledgebase support for Multi-Messenger Solar Physics
Henrik Eklund	2078	Deep neural network estimator for image refinement and estimation on radiation formation heights
Andrea Diercke	500	Automatic Extraction of Solar Filaments Using Machine Learning Techniques
Bendict Lawrance	597	Generation of coronal white light images from SDO/AIA EUV images using deep learning

OAE-2

CH 108

Aniket Sule	2433	Nurturing Excellence in Astronomy at School Level
Mayssa El Yazidi	1227	An Astronomical Observatory in Djebel Orbata (Gafsa): A proposal for an academic project in Tunisia

FM 1-2

CH 109

Jongho Park	1739	Collimation and Acceleration of AGN jets
Giancarlo Mattia	2047	Jets from accretion disk dynamos: a consistent model for dynamo and resistivity
Andrew Chael	1904	Supermassive black holes and relativistic jets: insights from simulations and Event Horizon Telescope observations
José L. Gómez	3409	The filamentary structure of 3C279 probed by RadioAstron
Stefan Wagner	1817	Constraints on Particle Acceleration in Relativistic Jets from Gamma-ray observations

FM 2-2

CH 103

Ruskin Hartley	2490	IDA's international program for dark sky preserves as a model
Discussion		
Hector Linares Arroyo	2196	Modeling to Mitigate the Impact of ALAN
Salvador J. Ribas	602	Measurement for Regional Monitoring
Ana Ulla-Miguel	1558	The Gaia4Sustainability project: assessing light pollution aided by natural night sky brightness modelling
Discussion		
Yana Yakushina	1401	Legal protection of dark skies above major observatories
Christian Adam	2452	Applying astronomical techniques to characterize ground-based light pollution sources
Pedro Sanhueza	2356	The Chilean Norma Luminica and the research group on ALAN

FM 10-2

CH 106

Jessie Christiansen	2825	Exoplanet Demographics: Exploring the Multiplicity of Planetary Systems
Ernst De Mooij	827	Characterising the atmospheres of exoplanets using high-resolution transmission spectroscopy
William Welsh	1386	Using Small Telescopes to Photometrically Determine the Masses of Tatooine Planets
Zouhair Benkhaldoun	1811	Small telescopes and big projects

OYA-2

CH 202

Chris Woolston	1009	The Challenges and Possibilities of a Science Career: Lessons from Nature
Luis Salazar-Manzano	1226	Challenges faced by Latin American astronomy students
Etsegenet Getachew	1592	Challenges for African's Women in Science
Daudi Mazengo	1211	Challenges facing PhD students in astronomy: A practical experience.
Hira Fatima	1263	Challenges of PhD students nowadays
Open Discussion		

Break

15:00-15:15

Afternoon Oral Session 2

15:15-16:45, Convention Hall

Name	Abs. No.	Title	
IAUS 368-9			CH 205
Raquel Ruiz Valença	2501	Comparing machine learning and deep learning models to estimate quasar photometric redshifts	
Steffani Grondin	1203	Searching for the extra-tidal stars of Galactic globular clusters with high-dimensional clustering analysis	
Vishal Upendran	515	Accelerating astronomy workflow with deep learning and interpretable A.I	
Yuan-Sen Ting	503	Quantifying non-Gaussianity with mathematical insights from machine learning	
IAUS 369-9			CH 101
Alice Curtin	1560	Searching for FRB-like Counterparts from GRBs using the First CHIME/FRB Catalog	
Mike Walmsley	2419	Candidate Faint Fast Radio Bursts Found by Citizen Scientists	
Pragya Chawla	1785	A search for low-frequency FRB emission with the LOTAAS survey	
Stella Ocker	691	Scattering Horizons for Fast Radio Bursts	
IAUS 372-9			CH 104
Clementina Sasso	1194	Modeling efforts for multi-mission science	
Andrew Walsh	1725	Coordinating Solar Orbiter Operations: The Story so far and What to Expect Next	
Alexandra Tritschler	2647	DKIST Coordination: Status and Current Strategies	
Yang Su	1927	Progresses of ASO-S mission	
OAE-3			CH 108
Rosa Doran	2789	Digital Education and Inclusion Leading the New Trends in Education	
Asmita Redij	1436	A spreadsheet-based tool to analyse astronomy content in textbooks	
Livia Giacomini		astroEDU - A platform for educational peer-reviewed resources	
FM 1-3			CH 109
Philip Edwards	1936	The parsec-scale properties of TeV blazars	
Markus Boettcher	1694	A shock-in-jet synchrotron mirror model	
Z. Lucas Uhm	2680	Physics of Relativistic Jets in Gamma-ray Bursts in the Era of Multi-messenger Astronomy	

James Leung	1886	Unveiling gamma-ray burst jet properties with radio observations
Florian Eppel	2679	First Results of the TELAMON AGN Monitoring Program In the Light of the Doppler Crisis and Neutrino Emission
Gaëtan Fichet de Clairfontaine	667	Characteristic multi-wavelength emission signatures from strong shock-shock interactions in perturbed relativistic jets

FM 2-3

CH 103

Discussion

Federico Di Vruno	2319	Radio astronomy and the quest for Quiet Skies
Gyula I. G. Józsa	2364	How radio frequency interference affects astronomy
L. Viktor Tóth	2878	Endangered frequency bands
Divya Oberoi	1352	Managing Radio Frequency Interference at the Giant Metrewave Radio Telescope
Karen Masters	1653	Update on Activities of The US National Academies' Committee on Radio Frequencies (CORF)
Carol Wilson	1991	Characteristics of Radio Quiet Zones
Haiyan Zhang	700	Recent Progress on Proposed National Standard of Electromagnetic Environmental Protection for Radio Telescopes
Bevin Vanderley	2889	Radio Astronomy Dynamic Coordination Zones
Discussion		

FM 10-3

CH 106

Siegfried Ettl	2223	Solar System Science opportunities with the Vera C. Rubin Observatory Legacy Survey of Space and Time
Federica Spoto	1322	The Gaia Follow Up Network: state of the art and future objectives
Stephen Gwyn	474	Recycling photons: The uses of archives in solar system searches
Anatoliy Ivantsov	2704	Astrometric bias due to overlapping image profiles in the focal plane and its removal in the positions of near-Earth asteroids

OYA-3

CH 202

Round Table

Michele Gerbaldi	The School model for the Office for Young Astronomers: Challenges perceived from within the IAU
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Afternoon e- Poster 16:45-17:30, Grand Ball Room

Coffee Break 16:45-17:30, Grand Ball Room

ODE Prize Talks 17:00-17:30, CH 205

Invited Discourse 2 17:30-18:30, Auditorium

Sherry Suyu

The Hubble Tension

Day 4_August 5 (Fri)

Morning Plenary 08:15-09:45, Auditorium

Name Abs. No. Title

IAUS 372

Valentin Martinez Pillet 2818 Challenges and opportunities in solar and heliospheric physics at the dawn of the multi-messenger era

Morning e- Poster 09:45-10:30, Grand Ball Room

Coffee Break 09:45-10:30, Grand Ball Room

Morning Oral Session 10:30-12:00, Convention Hall

Name Abs. No. Title

Div. A-1

CH 103

Div. B-1

CH 101

Francisco Javier Bailen 3466 Spectropolarimetric and imaging properties of Fabry-Pérot etalons. Applications to solar instruments.

Danna Qasim 260 Laboratory studies of interstellar methane ice in the era of JWST

Luke Pratley 1256 Exact wide-field interferometric imaging via distributed sparse image reconstruction

Niels Ligterink 1145 The astrochemical factory: producing the first biomolecule building blocks

Div. C-1

CH 104

Lina Strubbe 1803 Centering compassion and interaction in online teaching

Tim Spuck 2820 Making Image Analysis Accessible to the Blind: IDATA and the Afterglow Access Software

Anna Voelker 2778 SciAccess, Inc.: Best Practices for Accessible Astronomy Outreach

Paulo Segio Bretones 2340 Astronomy in schools: science, history and culture together

Tsolmon Renchin 1663 Astronomy for Mental Health and Wellbeing

Tomasz Mrozek 2090 Astronomy lectures in the far away country

Div. D-1

CH 201

Ziggy Pleunis	1078	Fast radio burst detection and differentiation with the CHIME telescope
Manuel Linares	599	Compact binary millisecond pulsars and the neutron star mass distribution
Wynn Ho	692	Masses and beyond with neutron star cooling
Cole Miller	520	X-ray measurements of neutron star masses and radii

Div. E-1

CH 108

Dibyendu Nandi	1788	Predicting the Solar Cycle: Where Do We Stand?
Maria Madjarska-Theissen	740	The Solar Atmosphere at Small Scales: Loops and Associated Dynamic Phenomena
Kilian Krikova	2739	Diagnostic Potential of He I for Small-Scale Energetic Phenomena
Arkadius Berlicki	2479	Quiescent Prominence Diagnostics Based on ALMA, UV and H-alpha/MSDP Observations
Stanislav Gunar	725	Solar Lyman-Alpha and Mg II h&k Radiation Variability with the Solar Cycle and its Impact on the Diagnostics of Chromospheric and Coronal Structures

Div. F-1

CH 202

Athena Coustenis	473	Exploration of habitable worlds in the outer solar system: the icy moons
Przemek Mroz	974	Exploring the free-floating planet population with gravitational microlensing
Jane Huang	383	Rings and Spirals in Protoplanetary Disks: The ALMA View of Planet Formation

Div. G-1

CH 106

Roel Lefever	994	Towards a more realistic description of Wolf-Rayet atmospheres
Suman Bala	2110	A new Monte-Carlo radiative transfer simulation of cyclotron resonant scattering features
Oleksandr Yushchenko	2856	Radioactive elements with long and short decay times in stellar atmospheres
Innocenza Busa	2797	Magnetic pressure a necessary contribution to pressure in stellar atmosphere modeling

Div. C-2

CH 104

Gianna Cauzzi	2557	COMMUNITY EDUCATION TO FOSTER FACILITY ENGAGEMENT: THE EXAMPLE OF THE DKIST DATA TRAINING WORKSHOPS
Heidi Korhonen	2358	Young astronomer hands-on training with virtual schools
Cintia Durán	2893	SPACE LIBRARIES: How to use multidisciplinary approaches to reach vulnerable communities through planetary sciences and literature.
Surhud More	1291	IUCAA Scipop: Astronomy outreach in India during the COVID era
Nishan Lamichhane	317	Engaging and motivating students using astronomical tools during the COVID-19 pandemic
Michael Fitzgerald	3072	Benefits and Detriments in the move to online learning with remote telescopes

Div. D-2

CH 201

Laura Becerra Bayona	256	SPH simulations of the Induced Gravitational Collapse mass spectrum of gravitational-wave mergers
Gayathri Vivekananthaswamy	3021	GWTC3: compact objects with different sizes and shapes
Ayan Bhattacharjee	1971	Could a Unified Spectral Model Estimate the Mass of Accreting Compact Objects?
Michela Mapelli	371	Oversize black holes: Formation channels of the most massive black holes observed by LIGO and Virgo
Gaston Escobar	2065	Demography of binary black holes with the population-synthesis code SEVN

Div. E-2

CH 108

Tetsuya Magara	2420	Modeling of Solar Magnetic Phenomena: Past, Present, and Future
Peng-Fei Chen	2722	Observational Features of Solar Filaments and their Implications
Tomasz Mrozek	1985	Plasma Characteristics During Microflares from Combined STIX-STEREO Observations and Hydrodynamical Modeling
Vemareddy Panditi	1385	On the Evolution of Magnetic Helicity Flux from Solar Active Regions: Our Present Understanding
Bhuwan Joshi	1547	Evolution of Magnetic Fields and Energy Release Processes during Homologous Eruptive Flares

Div. F-2

CH 202

Juan Diego Carrillo Sánchez	737	Comparative meteoroid fluxes on planetary atmospheres
Annabella Meech	1518	Gaussian processes for high-resolution spectroscopy

Antoine Strugarek	1422	Detectability of magnetic star-planet interactions in compact exosystems
Gulchehra Kokhirova	400	New Near-Earth Objects in the Taurid complex

Div. G-2

CH 106

Lisa Bugnet	2712	PhD Prize Talk: Characterization of solar-type stars and study of their internal magnetic fields along the evolution: Machine learning for asteroseismology and theoretical constraints for internal magnetic fields
Allan Sacha BRUN	1231	On convection and gravity waves in F stars
Junho Park	612	Shear instabilities and turbulence in radiation zones of rotating stars
Christopher Tout	2310	A double magnetic dynamo in cataclysmic variables

Div. H-2

CH 109

Cecilia Bacchini	2607	Star formation laws and gas turbulence in nearby galaxies
Martin Bureau	2727	WISDOM: Molecular cloud properties and star-formation quenching
Eva Schinnerer	2726	A cloud-scale view of the star formation process
Tony Wong	2207	The 30 Doradus Molecular Cloud as Revealed by ALMA
Shanghuo Li	1541	Binary Formation in the Massive Cluster-formation Region

Div. J-2

CH 205

Xiaohui Fan	2295	Quasars and the intergalactic medium at cosmic dawn
Jorryt Matthee	2641	(Re)solving Reionization with Lyman-alpha emission
Yongjung Kim	1855	Discovery of Two New $z \sim 6$ Quasars with IMS and Space Density down to $M_{1450} \sim -23.5$ mag
Yongmin Yoon	589	Bar Formation and Star Formation Enhancement in Disk Galaxies in Interacting Clusters
M. James Jee	2425	Tracing the origin of intracluster stars with Horizon Run 5

Break

15:00-15:15

Afternoon Oral Session 2

15:15-16:45, Convention Hall

Name Abs. No. Title

Div. A-3

CH 103

Div. B-3

CH 101

Douglas Bock	2833	Transforming our knowledge of the radio sky with ASKAP
Bruce Berriman	1040	Enabling Science with Virtual Observatory
Anthony Beasley	858	Satellite interference with radio interferometers - on-sky testing and new mitigation schemes
Constance Walker	896	The impact of satellite Constellation on optical astronomy: the issues and mitigation solutions
Discussion		

Div. C-3

CH 104

Jielai Zhang	1950	PASEA: Inspiring Future Astronomy Leaders in Africa
Akihiko Tomita	853	Launch of the new Astronomy Day in Schools (ADiS) and its results to date
Hassan Baghbani	2116	Teachers' International Network for Astronomy (TINA)
Mahdi Rokni	863	Students' International Network for Astronomy (SINA); Overview and the future
Jarita Holbrook	281	ASTROMOVES: Career Fluctuations due to the COVID-19 Global Pandemic
Magdalena Kersting	2719	General Relativity in Secondary School - Research-Based Development of Learning Resources and Analyses of Students' Conceptual Understanding

Div. D-3

CH 201

Mathieu Renzo	3111	What is the maximum mass of stellar mass black holes?
Renuka Pechetti	649	An IMBH in the most massive globular cluster of M31
Przemek Mroz	979	Searching for intermediate-mass black holes with gravitational microlensing
Roberto Soria	1959	X-ray searches for intermediate-mass black holes in the local universe

Div. E-3

CH 108

Valentin Martinez-Pillet	2821	Recent Instrumentation: Science and Status
Aleida Higginson	2814	A Whirlwind Tour of the Corona-Solar Wind Connection: Science and Status
Sarah Gibson	461	The Science of PUNCH
Durgesh Tripathi	717	Science Objectives of Aditya-L1

Div. F-3

CH 202

Tim Lichtenberg	2028	Geophysical Evolution During Rocky Planet Formation
Raissa Estrela	2535	Exoplanets Atmospheres and Habitability
Lev Tal-Or	2077	Analysis of the public HARPS/ESO spectroscopic archive: Jupiter-like planets around HD 103891 and HD 105779

Div. G-3

CH 106

Merieme Chadid	3023	First detection of gravity modes in RR Lyr stars
Vardan Elbakyan	1527	Accretion bursts in high-mass protostars
Elnaz Bakhshi	2852	THE FIRST PHOTOMETRIC STUDY OF AH MIC CONTACT BINARY SYSTEM

Div. H-3

CH 109

Anirudh Chiti	3452	Mapping the Ancient Milky Way and its Relic Dwarf Galaxies
Claude Carignan	752	Evidence of ram pressure stripping of WLM, a dwarf galaxy far away from any large host galaxy
Wanggi Lim	1410	Tracing dominant shock mechanisms of Orion A
Denise R. Gonçalves	2507	Innovating the Hunter Techniques: RAMSES II - RAMan Search for Extragalactic Symbiotic Stars
Sun Kwok	1054	Synthesis and distribution of complex organics by planetary nebulae

Div. J-3

CH 205

Brenda Namumba	376	HI mapping of nearby dwarf galaxies with SKA pathfinders: unique capabilities of KAT-7 and MeerKAT
Johan Comparat	2412	The cosmic web of galaxies seen in X-ray by eROSITA
Hyungjin Joo	1989	Intracluster Light Study of the Galaxy Clusters at $z > 1$ with Hubble Space Telescope WFC3/IR Data
Dominik Riechers	1537	Water Silhouettes against the Cosmic Microwave Background from the Most Distant Starburst Galaxies
Haeun Chung	1943	Nox: 12U CubeSat Mission Concept for Characterizing All-Sky FUV Background

Afternoon e- Poster

16:45-17:30, Grand Ball Room

Coffee Break

16:45-17:30, Grand Ball Room

Public Lecture 1

19:00-20:30, Auditorium

Sheperd S. Doeleman

Imaging a Supermassive Black hole

Day 5_August 6 (Sat)

Public Lecture 2

17:30-19:30, Auditorium

Brian P. Schmidt

The State of the Universe

Day 6_August 8 (Mon)

Morning Plenary

08:15-09:45, Auditorium

Name	Abs. No.	Title
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IAUS 370

Stanley Owocki	2488	Winds and magnetospheres from stars and planets: similarities and differences
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Morning e- Poster

09:45-10:30, Grand Ball Room

Coffee Break

09:45-10:30, Grand Ball Room

Morning Oral Session

10:30-12:00, Convention Hall

Name	Abs. No.	Title
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Div. A-4

CH 103

Div. B-4

CH 101

Paul Barklem	954	Laboratory Astrophysics - present and future
Dongsu Ryu	1868	Laboratory Astrophysics in Korea
Beatriz Barbuy	3109	A preliminary survey of Laboratory Astrophysics in South America
Peng Kian Tan	1038	Quantum Sensing for Astronomy
Naoki Watanabe	1077	Activities of Laboratory Astrophysics in Japan
Farid Salama	3467	Laboratory Astrophysics in the US
Paul Barklem	3468	Laboratory Astrophysics in Europe

Div. C-4

CH 104

Alejandro Martín López	2156	Tales about the sky. Orality and mythical analysis in cultural astronomy
Thilina Heenatigala	1397	Perspectives on Decolonising Astronomy for an Inclusive Environment
Leinani Lozi	2811	Hawai'i Astronomy: Traditional and Modern Methods
Aniket Sule	741	Astronomical skills of fishing communities in Western India
Steven Gullberg	600	Listening to Other Voices: Culturally Sensitive Sites Committee
Michael Burton	410	Ireland's Historic Observatories and their intersection with science, culture and politics

Div. D-4

CH 201

Riccardo Arcodia	3110	Accretion onto black holes across the mass scale
Ilje Cho	637	Unveiled properties of the supermassive black holes with the Event Horizon Telescope
Eckhard Sturm	934	Supermassive black hole mass estimates from interferometric spectro-astrometry and reverberation mapping
Shu Wang	1988	Investigating the high-luminosity end of the H-beta size-luminosity relation based on the 6-year Seoul National University Monitoring Project
Thomas Connor	638	Growing the First Supermassive Black Holes

Div. E-4

CH 108

Gopal Hazra	2840	Understanding the Behaviour of the Sun's Large Scale Magnetic Field and its Relation with the Meridional Flow
Souvik Bose	3116	On the Dynamics of Spicules and Mass-Flows in the Solar Atmosphere
Reetika Joshi	3117	Study of Solar Jets and Related Flares
Prantika Bhowmik	1764	Data Constrained Models for Solar Activity Predictions
Camilla Scolini	325	Evolution of Interplanetary Coronal Mass Ejections and their Space Weather Impact throughout the Inner Heliosphere: A Modeling Perspective
Munehito Shoda	1865	Three-Dimensional Simulation of the Fast Solar Wind: The Role of Parametric Decay Instability
Jenna Samra	2723	High-Altitude Instrumentation for Infrared Observations of the Solar Corona

Div. F-4

CH 202

Maria Drozdovskaya	1596	Chemical complexity from star-forming regions to comets
Luca Fossati	530	Exoplanet atmospheric escape: theory and observations
Sun Kwok	1052	Enrichment of the primordial Solar System by stellar organics

Div. G-4

CH 106

Simon Blouin	2745	Decoding the white dwarf fossil record
Natalia Lewandowska	2363	Disentangling the mysteries of single pulses from the Crab pulsar
Taeho Ryu	2598	Fully relativistic global simulation of a tidal disruption event
Bonnie Zaire	309	What does control the large-scale magnetic field configuration of cool stars?

Div. C-5

CH 104

Nilson Moreira da Silva	2897	OruMbya - Astronomy as fuel of life: the resilience of stars in Yoruba, Afro-Brazilian and Indigenous Cosmogony.
Manisha Dwa	2648	Indigenous Knowledge on Astronomy for equity and equality in Nepal
Jaeil Cho	1930	Performance and application of the radio telescope in Gwacheon National Science Museum
Deborah Kala Perkins	315	Between Cosmology and Consciousness: Fathoming of the Fabric of the Infinite at the Nexus of Ancient and New Cosmologies
David Barrado	3462	COSMOGRAPHY: THE SCIENCE OF THE TWO ORBS. THE ROLE OF AL-ANDALUS
Maria Giulia Andretta	251	The conquest of the Moon. The history, the legacies and the cultural influence of the Moon landing. Analysis of the Italian media phenomenon as an example of pop science

Div. D-5

CH 201

Vardha N. Bennert	641	Supermassive Black Holes and their Host Galaxies
Guang Yang	250	What drives the growth of black holes?
Kohei Inayoshi	1012	The assembly of the first massive black holes and the prospects of upcoming observations
Sarah Vigeland	607	Supermassive Black Holes and Merging Galaxies: Low-Frequency Gravitational Wave Detection with Pulsar Timing Arrays
Vasyl Ponomarenko	2080	Results of optical research of selected active galactic nuclei

Div. E-5

CH 108

Manuela Temmer	354	Large-Scale Structures in the Heliosphere and their Space Weather Impact
Mathew Owens	964	Space Weather Across the Time Scales: Minutes to Millennia
Ilya Usoskin	655	Do We Understand the Physics of Extreme Solar Events?
Devojyoti Kansabanik	396	Recent Developments in Space Weather Research with High Fidelity Low-Frequency Spectro-Polarimetric Imaging Using SKA-Low Precursor
Hee-Eun Kim	593	Heating of Ions at the Supercritical and Subcritical Quasi-perpendicular Earth's Bow Shocks

Div. F-5

CH 202

Shogo Tachibana	2226	What We Have Learned from Samples Returned from C-type Near-Earth Asteroid (162173) Ryugu
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Masatoshi Hirabayashi	985	YORP-driven structural and rotational interactions of irregularly shaped rubble pile asteroids
Yaeji Kim	860	Numerical investigation of how (486958) Arrokoth's structure did respond to the sky impact
Yeva Gevorgyan	1280	Comparison of Stratified and Effective Rheological Models For Icy Worlds

Div. G-5

CH 106

Steven Goldman	1748	A Census of Thermally-Pulsing AGB stars in the Andromeda Galaxy and a First Estimate of their Contribution to the Global Dust Budget
Jielai Zhang	2329	Kilonova and fast transients - an untriggered search
Melike AFSAR	1758	Unveiling effective temperatures using line depth ratios in the infrared H and K bands
Kelly Hambleton	2512	The Transients and Variable Star science collaboration roadmap explained

Div. H-5

CH 109

Victor Robles	3293	Constraints to the dark matter nature from the internal structure and orbital pericenters of Milky Way Satellites
Giseon Baek	1594	Complex organic molecules detected in twelve high-mass star-forming regions with Atacama Large Millimeter/submillimeter Array (ALMA)
Giang Nguyen Chau	2240	Modeling Polarized Thermal Emission from Dust Grains with Iron Inclusions Aligned by Radiative Torques in Low-Mass Protostellar Cores
Jeongkwan Yoon	1857	Ratio Tables of Chemical Species at Equilibrium for Primordial Chemistry
Beatrice Kulterer	1577	Constraints on methanol deuteration in prestellar cores
Siek Hyung	2572	Density Derivation by Nebular and Auroral/Nebular Lines Ratios

Div. J-5

CH 205

Cristina Popescu		Vice-President, Divison J
Andrew Battisti	787	Sharpening our View of Dust Attenuation using the TYPHOON survey
Ismael Ferrero	518	A Unified Scenario for the Origin of Spiral and EllipticGalaxy Structural Scaling Laws
Hyein Yoon	1555	Searching for extragalactic HI 21-cm absorption: Early results from the ASKAP-FLASH pilot observations
Ryan Keenan	1935	Tools for Measuring the Cosmic Molecular Gas History
Brianna Smart	689	The Diffuse Ionized Gas of the Magellanic System

Break

15:00-15:15

Afternoon Oral Session 2

15:15-16:45, Convention Hall

Name Abs. No. Title

OA0-4

CH 101

Pedro Russo	3428	The Public Value of Astronomy
Oana Sandu (Barbulete)	2976	Commission C2 and its strategic role within the IAU and beyond
Discussion		

OAD-4

CH 205

Kevin Govender		Overview
Alemiye Mamo Yacob	1570	Global structure in astronomy-for-development: a case of East African Region
Awni Kasawneh	1327	Space Activities, Laws, and Regulations in the Arab World
Michelle Willebrands	432	Activities of the IAU E-ROAD and its flagship project Pale Blue Dot
Nnaemeka Onyeuwaoma	433	West African Regional Office of Astronomy for Development: The Journey So Far
Prosperity Simpemba	2211	Overview of Astronomy projects in Southern Africa
Rosa Doran	2787	The Road towards Astronomy for Development in Portuguese Speaking Countries
Discussion		
Giovanni Pinzon	3045	Overview of activities of Andean Regional Office of Astronomy for development
Supaluck Chanthawan	3046	Astronomy for Development in CLMV and Beyond
Areg Mickaelian	3047	IAU South West and Central Asia ROAD: Recent Activities
Tim Spuck	3048	Reaching for the Stars with the North American Regional Office of Astronomy for Development
Discussion		

OAE-4

CH 103

Jungjoo Sohn	3422	OAE Node Korea: Our past and future
Abd El Fady Morcos	2147	Development plan for Astronomy Education in Framework of OAE -Center Egypt

OYA-4			CH 104
Paulo Sergio Bretones	2959	Astronomy Education Studies in the ISYA programs	
Discussion			
WG 1-1			CH 202
Lina Canas	2960	Astronomy for Equity, Diversity and Inclusion - a roadmap to action within the framework of the IAU centennial anniversary	
Susana Deustua		The recommendations of the Springboard to Action	
Discussion			
WG 2-1			CH 108
Rachel Osten		Coordination of Large Space Missions	
Matthew Colless		Coordination of Large Ground-based Facilities	
Ewine van Dishoeck	2336	Synergies of ground- and space- astronomy	
WG 3-1			CH 106
Johan Knapen	2421	Scientific Writing for Astronomers: Choice of journal, Submission process, and Writing guide	
Nushkia Chamba	2631	Scientific Writing for Astronomers: From Thinking to Paper Outline	
WG 4-1			CH 109
Ewine van Dishoeck	2337	Women in astronomy and the IAU: past, present and future	
Silvia Torres Peimbert	2495	Women participation in Latin America astronomy	
Annapurni Subramaniam	3132	Career stories, problems, and efforts in India to achieve gender balance in Astronomy	
Suzana Filipecki Martins	3133	STI Indicators and the Design of the 2022 Edition of Women and Girls In Astronomy IAU Global Outreach Project	
Jolanta Nastula	1439	Gender balance in CBK PAN	
Afternoon e- Poster			16:45-17:30, Grand Ball Room
Coffee Break			16:45-17:30, Grand Ball Room

Afternoon Oral Session 3

17:30-19:00, Convention Hall

Name	Abs. No.	Title
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IAU Offices
CH 205

Debra Elmegreen		Introductory remarks
Kateryna Frantseva	2642	Overview of the IAU fundraising efforts
Vanessa McBride	3049	Collaborations and partnerships within and outside IAU
Discussion		
Diana Worrall		Concluding remarks

WG 1-2
CH 202

Rachael Beaton	2139	Diversity, Equity, & Inclusion in Large Collaborations: A Decade of Work in the Sloan Digital Sky Survey-IV
Anna Voelker	2777	AstroAccess: Advancing research on accessibility to prepare for diverse needs in human spaceflight activities
Jeong Ae Lee	395	Let's go to the Universe, TOGETHER! - with Hearing-impaired children
Round Table		

WG 2-2
CH 108

Discussion		Coordination of Large Space Missions
Laura Kreidberg		Global coordination for the next decade of science: Exoplanets
Scott Trager	654	Global coordination of stellar and stellar population spectroscopy in current and future spectroscopic surveys
John Silverman		Global coordination for the next decade of science: Black Holes
Ofer Lahav		Global coordination for the next decade of science: Cosmology

WG 3-2
CH 106

Lina Canas	2907	IAU Outreach: Building Bridges Through Communication and International Cooperation
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WG 4-2
CH 109

Mamta Pommier	1060	IAU Women in Astronomy WG activities and survey results
Jeong-Eun Lee	3134	Women in Astronomy division of Korean Astronomical Society

Tony Travouillon	3135	ANU Research School of Astronomy and Astrophysics Advanced Instrumentation Technology Centre (AITC) women-only recruitment strategy and objectives?
Eleni Chatzichristou	3449	ERC Measures and Practices to Improve Gender Balance in Science

Day 7_August 9 (Tue)

Morning Plenary

08:15-09:45, Auditorium

Name	Abs. No.	Title
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IAUS 371

David Devorkin	1721	Turning Chaos into Order: The Life and Work of Charlotte Moore Sitterly
Alexander Kramida	1234	The Legacy of Charlotte Moore Sitterly in the Internet Age

Morning e- Poster

09:45-10:30, Grand Ball Room

Coffee Break

09:45-10:30, Grand Ball Room

Morning Oral Session

10:30-12:00, Convention Hall

Name	Abs. No.	Title
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IAUS 370-1

CH 101

Rachel Osten	2751	Observations of winds and CMEs of low-mass stars
Grace Telford	1806	FUV Constraints on the Winds and Rotation of Main-Sequence O Stars at Extremely Low Metallicity
Simon Daley-Yates	828	Slingshot Prominences, Formation, Ejection and Cycle Frequency in Cool Stars
Calum Hawcroft	2864	New empirical mass-loss rates and wind properties of massive stars at low metallicity
Gemma González-Torà	283	The effect of winds in Red Supergiants I. 1D Modelling for interferometric observations

IAUS 371-1

CH 202

Ewine Van Dishoeck	2335	Molecular processes relevant for astrophysics: theoretical studies
Alexandre Faure	3004	Collisional rate coefficients for astrophysics

IAUS 373-1

CH 205

Sebastian Francisco Sanchez Sanchez	3016	The local and global relations between Σ^* , Σ_{SFR} and Σ_{mol} that regulate star-formation
Catherine Zucker	2621	Supernova-Driven Star Formation in the Milky Way

Kazuki Tokuda	2624	ALMA resolved views of molecular filaments/clumps in the Large Magellanic Cloud: A possible gas flow penetrating one of the most massive protocluster systems in the Local Group
Amy Miller	2808	Turbulence-Controlled Hierarchical Star Formation in the Large Magellanic Cloud
Jin Koda	1877	Abundant Molecular Cloud Cores with Photo-Dissociated Envelopes Discovered in the XUV Disk of M83 with ALMA
Sarah Jeffreson	2190	A sub-grid model for the molecular cloud lifecycle

IAUS 374-1

CH 104

Jeffrey Love	2446	Down to Earth with geoelectric hazards from space
Ihor Kyrylenko	2869	Orbit and dynamic origin of the recently recovered iron meteorite
Gulchehra Kokhirova	346	ASTEROID APOPHIS AND ITS ASSOCIATED FIREBALLS
Svitlana Kolomiyets	2791	The meteoroid component of the astronomical hazard to Life on Earth: contribution, relationships and more

FM 1-4

CH 109

Susumu Inoue	2923	Gamma-ray bursts and their outflows: physics and implications of very high energy emission
Bestin James	2009	Modeling the GRB jet properties with 3D general relativistic simulations of magnetically arrested accretion flows
David Russell	2401	Universal magnetic field properties in relativistic jets from accreting objects
Mark Birkinshaw	1204	PKS 2152-699: jet coherence after strong jet-cloud interactions
Kohei Ichikawa	678	Rapidly growing supermassive black holes in extremely radio-loud galaxies
Shifu Zhu	276	The origin of X-ray emission from most radio-loud quasars

FM 2-4

CH 103

Constance Walker	895	Overview of the impacts from and mitigations of satellite constellations on optical astronomy
Federico Di Vruno	2320	Large LEO satellite constellations: Prospects for interference and threats to radio astronomy
Olivier Hainaut	1601	Quantifying the effect of satellite constellations on optical observations
Gyula I. G. Józsa	1493	The Opticon-Radionet effort towards the protection of the dark and quiet skies
Discussion		

Piero Benvenuti	690	The IAU Centre for the Protection of Dark and Quiet Sky from Satellite Constellations Interference (IAU CPS)
Siegfried Egg	2227	SatHub - A Community Driven Observation Portal of the new IAU Centre for the Protection of the Dark and Quiet Sky from Satellite Constellation Interference
Jonathan McDowell	1070	Software needs to mitigate the satellite constellation challenge

FM 10-4

CH 106

Ashish Mahabal	1228	Searching Solar System and Exoplanetary Bodies the Data Science Way
Jean-Eudes Arlot	1710	NAROO: a New Astrometric Reduction of Old Observations
Teymoor Saifollahi	1695	Precovery and risk assessment of the hazardous Near-Earth Objects in large astronomical surveys
Svitlana Kolomiyets	1232	Data docking in meteor research

WG 1-3

CH 108

Santiago Vargas Domínguez	3438	Astronomy breaks barriers and connects people
Steven Gullberg	3436	HERITAGE, INDIGENOUS PEOPLES, AND ASTRONOMY
Annette Lee	2341	"Working at the Intersection of Art, Science, and Culture for the Benefit of All"

Lunch Break

12:00-13:30

Afternoon Oral Session 1

13:30-15:00, Convention Hall

Name	Abs. No.	Title
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IAUS 370-2

CH 101

Andrea Mehner	1053	Observations of outflows of massive stars
Atefeh Javadi	2775	Mass-loss rates of cool evolved stars in the Local Group galaxies
Leonardo Dos Santos	1595	A review on the observations of planetary winds and outflows
Hyosun Kim	2096	The porous envelope and circumstellar wind matter of the closest carbon star

IAUS 371-2

CH 202

Marie Lise Dubernet	763	Databases of atomic and molecular data
Will Robson Monteiro Rocha	808	LIDA: The Leiden Ice Database for Astrochemistry

Yuri Ralchenko 2534 NIST-LANL Lanthanide Opacity Database

IAUS 373-2

CH 205

Kazuo Sorai 702 Molecular Gas Contents and Star Formation Efficiency in Local Galaxies
 Barbara Catinella 2866 The link between cold gas global reservoirs and star-formation activity in galaxies
 Erwin De Blok 1138 First results from the MHONGOOSE ultra-deep MeerKAT HI survey of nearby galaxies
 GYUEUN PARK 1479 Probing the Conditions for the Atomic-to-Molecular Transition in the Interstellar Medium
 Hsi-An Pan 467 Gas-Star Formation Cycle in Nearby Galaxies
 Bruce Elmegreen 472 A Search for correlations between turbulence and star formation in LITTLE THINGS and THINGS galaxies

IAUS 374-2

CH 104

Brent Barbee 2667 The Opportunity to Defend Ourselves Against Near-Earth Object Impact Threats
 Richard Wainscoat 1076 The Pan-STARRS search for Near-Earth Objects (NEOs)
 Suresh Bhattarai 2688 Asteroid Search Program: An Initiative To Engage People for The Protection of Planet Earth
 Xuguang Leng 874 Jupiter and Evolution of Complex Life on Earth

FM 1-5

CH 109

Dipanjan Mukherjee 336 Simulating young evolving relativistic jets from supermassive black holes
 Maccagni Filippo 1751 Jets and ISM interplay from the nucleus to the outskirts: the two cases of Centaurus A and Fornax A
 Motoki Kino 750 Witnessing the moments of jet-cloud collisions in the young radio galaxy 3C84
 Joana Kramer 452 Ray-Tracing in Hybrid Relativistic Magnetohydrodynamic Jet Simulations: A Polarimetric Study
 Françoise Combes 596 Jet-ISM interaction: observations

FM 2-5

CH 103

Richard Green 832 National Policy and Regulations
 Discussion

Tim Stevenson	2633	The Industry hub of the IAU Centre for the Protection of the Dark and Quiet Sky
Jessica Heim	2531	Community Engagement
Fatoumata Kebe	859	Educating and empowering astronomers with SatHub
Priya Shah	529	Dark Skies and Bright Satellites
Discussion		

FM 10-5

CH 106

Marco Micheli	619	High precision astrometry of small solar system bodies
Matthew Lehner	2732	The Transneptunian Automated Occultation Survey – TAOS II
Julia de León	2013	Understanding asteroids from their spectra. Asteroid taxonomies: benefits and limitations
Ivan Slyusarev	2411	Search for M-type dominated asteroid families
Said Hmiddouch	1478	Composition and activity of comets with TRAPPIST telescopes

WG 1-4

CH 108

Simona Mei	3437	Discrimination, bullying and harassment in STEM
Discussion		

Break

15:00-15:15

Afternoon Oral Session 2

15:15-16:45, Convention Hall

Name	Abs. No.	Title
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IAUS 370-3

CH 101

Susanna Parenti	2281	Updates on recent findings from the solar wind with major facilities
Allan Sacha BRUN	1719	Advanced models of the solar wind, inner corona and heliosphere
Giovanni Pinzon	1028	Is the magnetospheric accretion process active in Herbig Ae/Be stars ?
Marina Rumenskikh	335	Interpretation of transit absorptions in the atmosphere of HD-189733b
Kristina Kislyakova	2585	X-ray observations as a tool to estimate stellar mass losses

IAUS 371-3

CH 202

Maria Bergeman	1981	The state of solar analyses, and solar and stellar spectroscopy and solar models
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Gloria Canocchi	1629	Improving planetary atmosphere characterization by 3D NLTE modeling of the stellar centre-to-limb effect
Terese Olander	2611	Comparative high-resolution spectroscopy of M dwarfs: Exploring non-LTE effects
Abdelmajid Benhida	1135	Contribution of small telescopes at the Oukaimeden Observatory in Morocco to study Atmospheric dynamics and shocks in variables stars RR Lyr and R sct

IAUS 373-3

CH 205

Aeree Chung	1881	The impact of ICM ram pressure on the cool gas content and SF activity of galaxies
Zhiyu Zhang	2886	Dense molecular gas tracers in nearby galaxies
Jiayi Sun	451	Molecular Cloud Populations in the Context of Their Host Galaxies: Insights from PHANGS-ALMA
Ayu Konishi	744	Exploring the evolution of giant molecular clouds in one of the nearest spiral galaxies M33
Gerhard Hensler	834	Conditioning star formation in intergalactic clouds
Zara Randriamanakoto	1566	The SUNBIRD Survey: insights into small-scale star formation mechanisms through the NIR study of young massive clusters in a sample of starburst and luminous infrared galaxies

IAUS 374-3

CH 104

Patrick Michel	1168	The ESA Hera mission to the binary asteroid Didymos: NEO deflection investigation and full characterization
Thomas Statler	2089	After DART: Informing a Hypothetical Future Asteroid Deflection with Results from the First Kinetic Impactor Test
Vasiliki Petropoulou	2066	The EU H2020 project "NEOROCKS -The NEO Rapid Observation, Characterization and Key Simulations"
Simone Ieva	2032	OBSERVATIONAL CHARACTERIZATION FOR THE DIDYMOS SYSTEM IN SUPPORT OF THE DART & LICIAcube MISSION, THE FIRST KINETIC IMPACTOR DEMONSTRATION
Elisabetta Dotto	1795	LICIAcube: the Light Italian Cubesat for Imaging of Asteroids part of the NASA mission DART

FM 1-6

CH 109

Andrew Fabian	1691	Jet-ICM interaction
Filippo D'Ammando	1813	Unveiling the physics of relativistic jets with LSST and CTA

Maria J. Rioja	2426	New Opportunities with Next-Generation Instruments: SKA and Millimetron
Ulisses Barres de Almeida	1432	Potential for Very High Energy gamma-ray transient monitoring with SWGO
Gabriele Giovannini	533	Concluding Remarks

FM 2-6

CH 103

Jeremy Tregloan-Reed	2174	Optical and NIR magnitude measurements of Low Earth Orbit satellites, from a global observing network
Angel Otarola	1343	Observations, analysis and characterization of satellites in Low Earth Orbit mega-constellations
Przemek Mroz	975	Impact of LEO Megaconstellations on the Zwicky Transient Facility Survey Observations
Bevin Vanderley	2890	Impacts to U.S. Ground-based Astronomical Facilities
Olga Zamora	714	The brightness and colors of Oneweb satellites
Svitlana Kolomiyets	1264	On the space debris component in meteoroid models
Discussion		

FM 10-6

CH 106

Josef Durech	2396	Asteroid photometry and its interpretation
Eric MacLennan	1120	Significance of shapes and spins in the thermophysical modeling of asteroids
Alberto Cellino	2391	Asteroid Polarimetry in the Gaia Era
Hee-Jae Lee	1460	Light curve survey of the asteroids with KMTNet
Gulchehra Kokhirova	390	Synergy of Small Telescopes for Asteroid (6478) Gault Observations in Tajikistan and Slovakia

WG 2-3

CH 108

Afternoon e- Poster	16:45-17:30, Grand Ball Room
Coffee Break	16:45-17:30, Grand Ball Room
Conference Dinner	17:30-19:30, Hall 5A, Exhibition Center II

Day 8_August 10 (Wed)

Morning Plenary

08:15-09:45, Auditorium

Name	Abs. No.	Title
IAUS 373		
Adam Leroy	3017	Star Forming Galaxies Resolved into their Fundamental Units
Annalisa Pillepich	2165	Star formation across the bodies of galaxies and its suppression: a theoretical overview
Yingjie Peng	634	Exploring star formation and quenching via observations, simulations and synergies

Morning e- Poster

09:45-10:30, Grand Ball Room

Coffee Break

09:45-10:30, Grand Ball Room

Morning Oral Session

10:30-12:00, Convention Hall

Name	Abs. No.	Title
IAUS 370-4		CH 101
Daria Kubyshkina	1214	The origin of planetary winds
Dualta O Fionnagain	2626	Coronal Mass Ejections and Type II Radio Emission Variability during a Magnetic Cycle on the Solar-type Star ϵ Eridani
Jean-Michel Desert	3274	Deciphering composition and winds in exoplanet atmospheres
Hiroto Mitani	1960	The classification of the atmospheric escape: three types of escape driven by EUV photoionization heating
Florian Driessen	1392	Discrete Absorption Components' from 3-D spot models of hot star winds

IAUS 371-4

CH 201

Christian Clear	2271	Atomic data from the UV to the IR
Maria Teresa Belmonte	2484	Accurate new atomic data needed for Galactic Surveys
Milan Ding	665	New Laboratory Atomic Data for Neutral, Singly and Doubly Ionised Iron Group Elements for Applications in Astrophysics

IAUS 373-4

CH 205

Bianca Poggianti	660	Star forming clumps, rates and histories: the spatially resolved view in dense galaxy environments
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Ji-hoon Kim	324	324 How Feedback Affects Stellar and Galactic Evolution: Perspectives in the Era of High-resolution Simulations
Jeong-Gyu Kim	2785	Relative importance of different stellar feedback processes in dispersal of giant molecular clouds
Di Wang	1378	The SAMI Galaxy Survey: Using concentrated star formation and stellar population ages to understand environmental quenching
Camila De Sá Freitas	337	Quenching, bursting and galaxy shapes: colour transformation as a function of morphology
Yuri Oku	983	Osaka feedback model II: Modeling supernovae based on high-resolution simulations

IAUS 374-4

CH 104

Rosita Kokotanekova	715	We do look up: what cometary science has revealed about the potential hazards of comet and interstellar object impacts
Makoto Yoshikawa	2515	Planetary defense activities at JAXA
James (Gerbs) Bauer	1771	The Many Comets of NEOWISE
Camilo Delgado-Correal	2788	Optimization of Gauss Method to describe with most accuracy the orbits of Near Earth Asteroids - NEAs

FM 3-1

CH 103

Marika Asgari	575	Cosmic Shear Analyses with KiDS: past, present and future
Alexandra Amon	3122	Cosmology from DES Y3 weak lensing
Hironao Miyatake	3123	Weak Lensing Cosmology from Subaru Hyper Supreme-Cam Survey

FM 6-1

CH 106

Melanie Johnston-Hollitt	1079	The Importance of Wideband Spectral Observations of Radio Emission in Galaxy Clusters
Ruta Prabhakar Kale	2200	Revealing properties of non-thermal emission from galaxy clusters using the Upgraded GMRT
Reinout Van Weeren	2409	LOFAR observations of the Perseus Cluster
Christian Groeneveld	1805	Galaxy clusters in the Decameter Sky
Gianfranco Brunetti	2171	Tackling the complexity of non-thermal phenomena in galaxy cluster sand LSS

FM 7-1

CH 109

Lennart Lindegren	943	21st Century Astrometry and its Science Applications
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Rachael Beaton	2135	The 21st Century Challenge of Distances: More Robust, Faster, and Farther
Alex Golovin	2847	The Fifth Catalogue of Nearby Stars (CNS5): catalogue construction, completeness, and luminosity functions
Gordian Edenhofer	1050	The Galactic 3D large-scale Distribution of Dust from Astrometric Data
Minia Manteiga	1540	Galactic Planetary Nebulae central stars properties and binarity from Gaia EDR3 astrometry and photometry

WG 2-4

CH 108

Lunch Break 12:00-13:30

Shaw Prize Lecture 12:15-13:15, Auditorium

Lennart Lindegren Gaia and global space astrometry: A historical perspective

Michael Perryman

Afternoon Oral Session 1 13:30-15:00, Convention Hall

Name	Abs. No.	Title
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IAUS 370-5

CH 101

Munehito Shoda	1905	Stellar wind from low-mass main-sequence stars: an overview of theoretical models
Catalina Arcos	1612	Hydrodynamic disk solutions for Be stars using HDUST
Robert Kavanagh	976	Signatures of star-planet interactions across the electromagnetic spectrum
Nicolas Moens	1606	Uncovering the Wolf-Rayet wind launching mechanism through 3D radiation-hydrodynamics
Gopal Hazra	2278	Effect of stellar coronal mass ejections and flares on the atmosphere of hot Jupiters and their transit signatures

IAUS 371-5

CH 202

Randall Smith	2948	Precision X-ray spectroscopy
Sonja Bernitt	2366	The Fe XVII 3C/3D Oscillator Strength Problem
Renata Cumbee	2877	Modeling X-ray Emission from Charge Exchange Collisions in Astrophysical Spectra

IAUS 373-5

CH 205

Alberto Bolatto	522	Using Observables to Test Models
Lihwai Lin	2307	What drives galaxies from the main sequence to the green valley?

Qingzheng Yu	388	On the HI Content of MaNGA Major Merger Pairs
Yang Sun	1769	Evolution of Bulk Gas Flows from Starburst to Quiescent Galaxies
Martin Bureau	2725	WISDOM: Molecular cloud properties and star-formation quenching
Cressida Cleland	521	Investigating internal and external quenching mechanisms on various timescales

IAUS 374-5

CH 104

Heidi Korhonen	2345	Solar hazards on different time scales
Eva Villaver	688	The Fate of planet Earth
Brian Thomas	1035	The Supernova Threat to Life in the Universe
Ammar Abdulla	397	Lunar Impact Events by SLIO in 2020

FM 3-2

CH 103

Axel Guinot	2779	Weak Lensing analysis of the 3,600deg ² of the CFIS-UNIONS data
Mijin Yoon	2494	Cosmic shear reanalysis of KiDS-1000 with metacalibration shape catalog
Harry Johnston	1639	Forecasting gains in (4-6)x2pt large-scale structure analyses with spectroscopic-photometric galaxy cross-correlations
Tilman Troester	2071	Can beyond Λ CDM models address the S_8 tension? Extended cosmology analysis of the Kilo-Degree Survey

FM 6-2

CH 106

Florian Ruppin	1238	High angular resolution SZ cartography of galaxy clusters with NIKA2 at the IRAM 30-m telescope
Charles Romero	1825	The utility of subarcminute SZ observations with MUSTANG-2
Stefania Amodeo	938	Gas thermodynamics from the SZ effects: an ACT view
Luca Di Masco	684	Multi-wavelength view of a massive galaxy cluster merger at $z=1.13$
Joshiwa Van Marrewijk	1506	RXC-J2014.8-2430, the strongest cool core galaxy cluster in REXCESS: How the hot intracluster medium affects the cold molecular gas in and around the brightest cluster galaxy

FM 7-2

CH 109

Sergey Koposov	2117	The stellar streams revolution with Gaia.
Paolo Tanga	2993	The Gaia mission and the Solar System: new perspectives
Daniel Mikkola	471	The velocity distribution of white dwarfs in Gaia EDR3

Lukasz Wyrzykowski	1032	Measuring masses of dark lenses with astrometric microlensing with Gaia
Shuangjing Xu	1568	The Astrometric Animation of Water Masers towards the Mira Variable BX Cam
Tony Sohn	1765	Proper Motions in the Outer Halo and beyond the Milky Way

WG 3-3

CH 108

Break

15:00-15:15

Afternoon Oral Session 2

15:15-16:45, Convention Hall

Name Abs. No. Title

IAUS 370-6

CH 101

Andreas Sander	624	The driving of hot star winds
Takeru Suzuki	872	Role of Longitudinal Waves in Alfvén-wave-driven Solar/Stellar Wind
Judy Chebly	2615	Filling the gap in stellar wind observations of cool stars via 3D MHD numerical modelling
Ignacio Araya	1647	ISOSCELES: Grid of stellar atmosphere and hydrodynamic models of massive stars. The first results.
Julián Alvarado-Gómez	414	Simulating the Space Weather in the AU Mic System: Stellar Winds and Extreme Coronal Mass Ejections

IAUS 371-6

CH 202

Ella Sciamma-O'Brien	2804	Models of Hazes in (exo)planetary atmospheres - The Importance of Producing and Characterizing Laboratory Analogs of (Exo)Planetary Atmospheric Aerosols
Xinting Yu	2908	The Next-Generation Laboratory Experiments on Planetary Materials
Nanae Domoto	2649	Signatures of r-process elements in kilonova spectra
Sema Caliskan	1511	Kilonovae and the cosmic origin of r-process elements: atomic structure and processes of gold

IAUS 373-6

CH 205

Miroslava Dessauges-Zavadsky	479	Dissecting the star formation process at molecular cloud scale 8 billion years ago
Itziar Aretxaga	2430	(Sub-)mm continuum surveys: mapping the dusty galaxy contribution to the star formation history

Marcie Mun	1379	Spatially resolving the star formation activity of galaxies at 3 - 4 Gyrs of lookback time with MAGPI
Chelsea Sharon	1061	Characterizing the Resolved Schmidt-Kennicutt Relation Using Different SFR Tracers at Cosmic Noon
Melanie Kaasinen	331	Resolving Star-forming Gas at the Peak Epoch of Star Formation
Po-Feng Wu	650	Understanding quenching at high redshifts from local IFU surveys

IAUS 374-6

CH 104

Christopher Impey	1306	How It Ends
Diederik Kruijssen	2133	Introducing the Cosmic Origins Of Life (COOL) model: a multi-scale, multi-physics framework for the emergence and survival of life in a hostile Universe
Gijs Verdoes Kleijn	2016	Piggybacking astronomical hazard investigations on research and development for Big Data science missions
Teymoor Saifollahi	1689	ARE WE SAFE? Precovery and risk assessment of the hazardous Near-Earth Objects

FM 3-3

CH 103

Renee Hlozek	1867	CMB tensions and systematics
Sherry Suyu	577	Tensions in Cosmology: H0 measurements
Discussion		

FM 6-3

CH 106

Irina Zhuravleva	2590	Updates on Turbulence in Hot ICM
Yuto Ichinohe	525	XRISM observation of galaxy clusters
Eugene Churazov	2045	ICM dynamics in the Coma cluster (X-ray view)
Congyao Zhang	323	Giant shock waves in galaxy cluster
Eunyu Lee	907	Shocks in merging galaxy clusters in cosmological simulations

FM 7-3

CH 109

Mark Reid	881	Advances in VLBI Astrometry
Sylvestre	3126	Astrometry of exoplanets with optical interferometry
Laurent Loinard	1824	VLBI astrometry in the epoch of Gaia
Megan Johnson	3425	Writing grant and observing proposals: sharing my ESO and ERC experience.

Lucas Hunt	2702	Comparing Images of ICRF Sources at S, X, K and Q-band
Phil Cigan	1097	Three years of ICRF3 source positions

WG 3-4

CH 108

Richard de Grijs	2261	Writing grant proposals: Your road to success
Vincenzo Mainieri	2639	Writing grant and observing proposals: sharing my ESO and ERC experience

Afternoon e- Poster 16:45-17:30, Grand Ball Room

Coffee Break 16:45-17:30, Grand Ball Room

Invited Discourse 3 17:30-18:30, Auditorium

Hiroyuki Maehara Superflares and super coronal mass ejections on solar-type stars

Day 9_August 11 (Thu)

Morning Plenary

08:15-09:45, Auditorium

Name	Abs. No.	Title
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IAUS 374

Milan Cirkovic	3453	Rare Earth Got It Wrong: Astronomical Hazards and Habitability
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Morning e-Poster

09:45-10:30, Grand Ball Room

Coffee Break

09:45-10:30, Grand Ball Room

Morning Oral Session

10:30-12:00, Convention Hall

Name	Abs. No.	Title
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IAUS 370-7

CH 101

Jonathan Mackey	1335	Interaction between massive star winds and the interstellar medium
Eva Villaver	686	Stellar winds and the survival of planets
Ildar Shaikhislamov	342	Interaction of exoplanetary and stellar winds and its observational manifestations
Takashi Moriya	748	Massive star mass loss constrained by supernova radio properties

IAUS 371-7

CH 202

Susanna Widicus Weaver	2689	The Synergy Between Laboratory Spectroscopy and Observational Astronomy in the Far-IR
Hiroyuki Sasada	2957	Molecular Spectroscopy with optical frequency combs
Stefanie Milam	2799	Laboratory Challenges for Solar System Science

IAUS 373-7

CH 205

Elisabete Da Cunha		The dust properties of star-forming galaxies in the first billion years
Manuel Aravena	1357	The supply of gas through cosmic time: insights on the galaxy assembly at early epochs
Kathryn Grasha	385	The Chemical Evolution of Spiral Galaxies from Start of Cosmic Dawn to Today
Ana Carolina Posses Nascimento	1889	Resolving the ISM structure and kinematics in two star forming galaxies at $z \sim 6$
Massissilia Hamadouche	1202	The evolution of quiescent galaxies from $z = 0.6$ to $z = 1.3$

Hannah Stacey 308 How dusty quasars shape the inner regions of galaxies at cosmic noon

IAUS 374-7

CH 104

Gonzalo Tancredi 866 What catastrophes of extraterrestrial origin can affect us on various geographical and temporal scales?

Round Table #1 Comparative Analysis of the Astronomical Hazards

FM 3-4

CH 103

Jia Liu 2915 Higher-Order Statistics with Stage IV surveys

Matteo Cataneo 623 On the road to percent accuracy: The Reaction Way

Pierre Fleury 820 Cosmic shear from Einstein rings

Sungwook E Hong 561 Weak-lensing Mass Reconstruction of Galaxy Clusters with a Convolutional Neural Network

FM 6-4

CH 106

Hiroki Akamatsu 2293 X-ray and radio multi-wavelength view of clusters of galaxies

Junhan Kim 2198 A Multi-Probe Analysis of the 3-D Shapes and Non-Thermal Pressure in the CHEX-MATE Galaxy Clusters

John ZuHone 2972 The interaction between merger-driven gas motions and AGN feedback in clusters of galaxies

Roland Timmerman 1453 Measuring cavity powers of active galactic nuclei in clusters using a hybrid X-ray/radio method

Takuya Akahori 329 Phoenix rising from the ashes - co-existence of violent cooling and AGN feedback

Annalisa Pillepich 2187 X-ray manifestations of AGN feedback, mergers and satellite accretion with the IllustrisTNG simulations

FM 7-4

CH 109

François Mignard 879 Status of the Multi-Wavelength Reference Frames

Davide Massari 990 Astrometry with the ELT

Christopher Jacobs 1520 The X/Ka 2022b VLBI Celestial Reference Frame

David Gordon 2709 Current Celestial Reference Frame Status at X/S and K Bands

Aletha De Witt 3100 Imaging and Structure Analysis of ICRF sources at X and K-band

Oleg Titov 3426 New explanation of the observed large positional offsets between radio and optical coordinates of the extragalactic objects

WG 4-3

CH 108

Priya Shah	526	Empowering Women through Training and Skill Development
Santiago Vargas Domínguez	1237	How does gender equality benefit men?
Suhyun Shin	559	Challenges for young women astronomers in South Korea to continue their careers based on statistical surveys
Loreany De Araújo	2666	ASTROMINAS: Empowering girls through science
Maysa El Yazidi	1275	Work opportunities and the study of the female presence in astronomy and space sciences in Tunisia

Lunch Break

12:00-13:30

Afternoon Oral Session 1

13:30-15:00, Convention Hall

Name Abs. No. Title

IAUS 370-8

CH 101

Ashkbiz Danehkar	387	Time-dependent Numerical Modeling of Thermally Driven Stellar Winds
Varsha Ramachandran	373	Probing the winds and interactions of OB stars in different environments
Darius Modirrousta-Galian	287	Role of Planetary Winds in Planet Evolution and Population
Adam Finley	1470	Rotation of the Solar Corona and Solar Wind Angular Momentum-loss
Pin-Gao Gu	1270	Size Evolution of Close-in Super-Earths through Giant Impacts and Photoevaporation

IAUS 371-8

CH 202

Masaomi Tanaka	2499	Heavy element opacity for multi-messenger observations of neutron star mergers
Yu-Jung Chen	2988	VUV Spectroscopy for Photoprocessing of Astrophysical Ices

IAUS 373-8

CH 205

Vincenzo Mainieri	1747	The role of AGN outflows and jets in regulating star formation
Kentaro Nagamine	1481	Feedback models in galaxy simulations and probing their impact using cosmological hydrodynamic simulations
Tjitske Starkenburg	2700	The evolutionary path of quenching galaxies and comparisons between theoretical and observational samples

Boris Sindhu Kalita	1996	Direct glimpse at accretion-driven galaxy evolution in the protocluster-era
Kohei Ichikawa	679	Rapidly growing supermassive black holes in extremely radio-loud galaxies
Hao He	856	Analysis of giant molecular cloud properties on FIRE-2 Mergers

IAUS 374-8

CH 104

FM 3-5

CH 103

Kyle Finner	698	NIRWL: Identifying Systematics in Near-infrared Weak-lensing Measurements with CANDELS/HST
Alessio Spurio Mancini	1574	COSMOPOWER: Deep Learning – accelerated cosmological inference from next-generation surveys
Christopher Hirata	3124	Nancy Grace Roman Space Telescope
Francois Lanusse	2493	Weak Lensing with the Rubin Observatory LSST

FM 6-5

CH 106

Rafael Alves Batista	1276	Neutrinos and gamma rays from clusters of galaxies
Saqib Hussain	330	High-energy gamma-ray production in clusters of galaxies
Ji-Hoon Ha	645	Particle acceleration at accretion shocks around galaxy clusters
M. James Jee	1136	Weak-lensing Study of Merging Galaxy Clusters and Probes of Dark Matter
Kyle Finner	696	Weak-lensing analysis of 30 merging clusters that exhibit radio relics
Wonki Lee	1244	Discovery of peculiar double radio relics in the merging cluster ZwCl J1447.2+2619

FM 7-5

CH 109

Richard Dodson	2059	Ultra-precise Astrometry with the SKA
David Hobbs	987	The Hidden Regions – Future space astrometry in the Near InfraRed
Yoo Jung Kim	1964	Spectroastrometry with Photonic Lanterns

WG 4-4

CH 108

Alshaimaa Saad Hassanin	807	Career challenges, problems, and consequences in the Middle east
Encieh Erfani	458	Iranian Women Astrobomers
Bonita de Swardt	3136	A case study of gender inclusiveness in the Development in Africa with Radio Astronomy (DARA) Big Data programme
Discussion		

Break

15:00-15:15

Afternoon Oral Session 2

15:15-16:45, Convention Hall

Name	Abs. No.	Title	
IAUS 370-9			CH 101
Sung-Chul Yoon	2556	Effects of rotation on the evolution of early-type stars	
Andrew Allan	2472	The Evolution of Atmospheric Escape of Highly Irradiated Gassy Exoplanets	
Zsolt Keszthelyi	257	Spin down and reduced mass loss in early-type stars with large-scale magnetic fields	
Antoine Strugarek	1423	Architectures of rotating star-planet systems: Comparing theoretical predictions to observations	
Gautham Narayana Sabhahit	1480	Mass-loss implementation and temperature evolution of very massive stars	
IAUS 371-9			CH 202
Jacob Ward	2714	Branching Ratios and Atomic Transition Probabilities of Fe II in the Vacuum Ultraviolet Region	
Silvia Spezzano	2945	High Resolution Molecular Spectroscopy in the CAS Laboratories	
IAUS 373-9			CH 205
Eve Ostriker	1034	Feedback and the Emergence of Star Formation Scaling Relations	
Rachel Somerville	2707	Modeling star formation across a vast range of spatial scales	
Dandan Xu	932	Linking the rise and fall of star formation with the large-scale angular-momentum environment through circumgalactic medium	
Jaeyeon Kim	2070	Environmental dependences of molecular cloud lifecycle in 60 main sequence galaxies	
Juan Espejo	919	What drives disk instabilities and star-forming clumps in galaxies at Cosmic Noon?	
Chang-Goo Kim	727	How are Galactic Star Formation Rates Regulated? Role of Supernovae, UV Radiation, and Magnetic fields	
IAUS 374-9			CH 104
FM 3-6			CH 103
Hendrik Hildebrandt	2394	Cosmic shear with the ESA/NASA Euclid space mission	
Jun Zhang	462	Shear Measurement Strategy in CSST	
Discussion			

Break

15:00-15:15

Afternoon Oral Session 2

15:15-16:45, Convention Hall

Name	Abs. No.	Title	
IAUS 370-9			CH 101
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IAUS 371-9			CH 202
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IAUS 374-9			CH 104
FM 3-6			CH 103
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Jun Zhang	462	Shear Measurement Strategy in CSST	
Discussion			

FM 6-6

CH 106

Annalisa Bonafede	2260	Magnetic field in galaxy clusters and beyond: new perspectives from low frequency observations
James Chibueze	277	MeerKAT's view of an interaction between intra-cluster magnetic field and blackhole jets
Erik Osinga	817	The detection of cluster magnetic fields via radio source depolarization
Paola Dominguez Fernandez	306	Substructure and patchiness in radio relics
Jurjen De Jong	968	Particle reacceleration in the pre-merging radio bridge A399-401
Rajsekhar Mohapatra	1174	Multiphase turbulence in the ICM: the role of turbulence heating and the effect of the driving

FM 7-6

CH 109

Anna Queiroz	2280	StarHorse parameters for spectroscopic surveys with Gaia EDR3: ages for sub-giants and chemical substructures in the solar vicinity
Chao Liu	3430	When Gaia meets LAMOST
Yuan-Sen Ting	505	Precision Galactic Archaeology: Revealing the Milky Way's Engines through the Statistical Alignment of Stars

WG 5

CH 108

John Hearnshaw	The IAU pro-am WG, its mission and future goals
Tim Spuck	Interest in Pro-Amateur Collaboration in Astronomy: What do professionals and amateurs have to say?
Suzana Martins / Lina Canas	Meet the IAU Astronomers! Programme
Aniket Sule	The amateur astronomy culture in India
In-Ok Song / So Weol Lee	Amateur astronomers in Korea
Antonia Varela	The Starlight network and the need for ProAm cooperation for local sustainable development through Astro-tourism
General Discussion	

Break

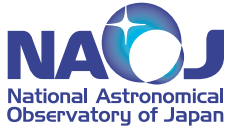
16:45-17:30

Closing Ceremony

17:30-18:30, Auditorium

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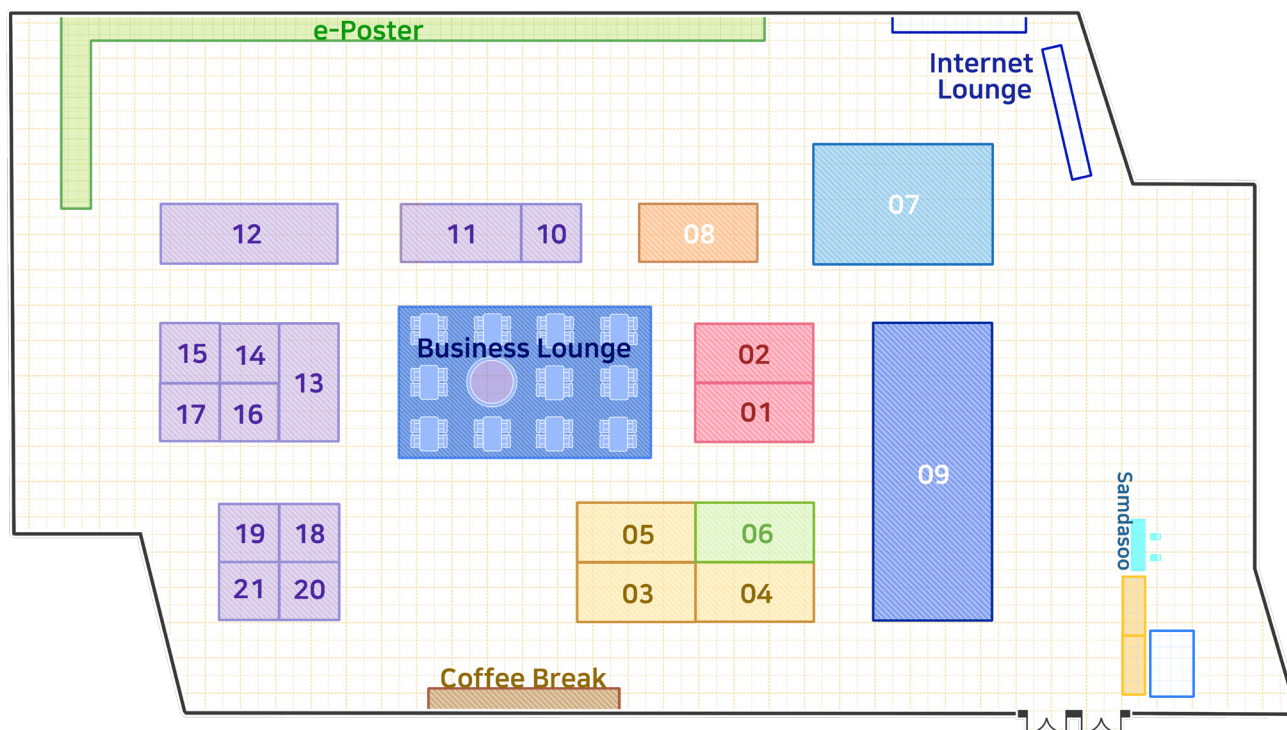


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9	International Astronomical Union (IAU)
10	Federation of Busan Science and Technology (FOBST)
11	Astralis
12	GA2024 NOC & South African Astronomical Observatory (SAAO) & Southern African Large Telescope (SALT)
13	NSF's NOIRLab
14	Gwacheon National Science Museum
15	International Gravitational Wave Network: LVK (LIGO-Virgo-KAGRA), LISA and NANOGrav
16	SKA Observatory
17	Istituto Nazionale di Astrofisica
18	Astronomical Society of India
19	UNIST, Center for High Energy Astrophysics
20	Center for the Gravitational-Wave Universe
21	University of Science and Technology

FM 6-6

CH 106

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FM 7-6

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Chao Liu	3430	When Gaia meets LAMOST
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WG 5

CH 108

John Hearnshaw	The IAU pro-am WG, its mission and future goals
Tim Spuck	Interest in Pro-Amateur Collaboration in Astronomy: What do professionals and amateurs have to say?
Suzana Martins / Lina Canas	Meet the IAU Astronomers! Programme
Aniket Sule	The amateur astronomy culture in India
In-Ok Song / So Weol Lee	Amateur astronomers in Korea
Antonia Varela	The Starlight network and the need for ProAm cooperation for local sustainable development through Astro-tourism
General Discussion	

Break

16:45-17:30

Closing Ceremony

17:30-18:30, Auditorium

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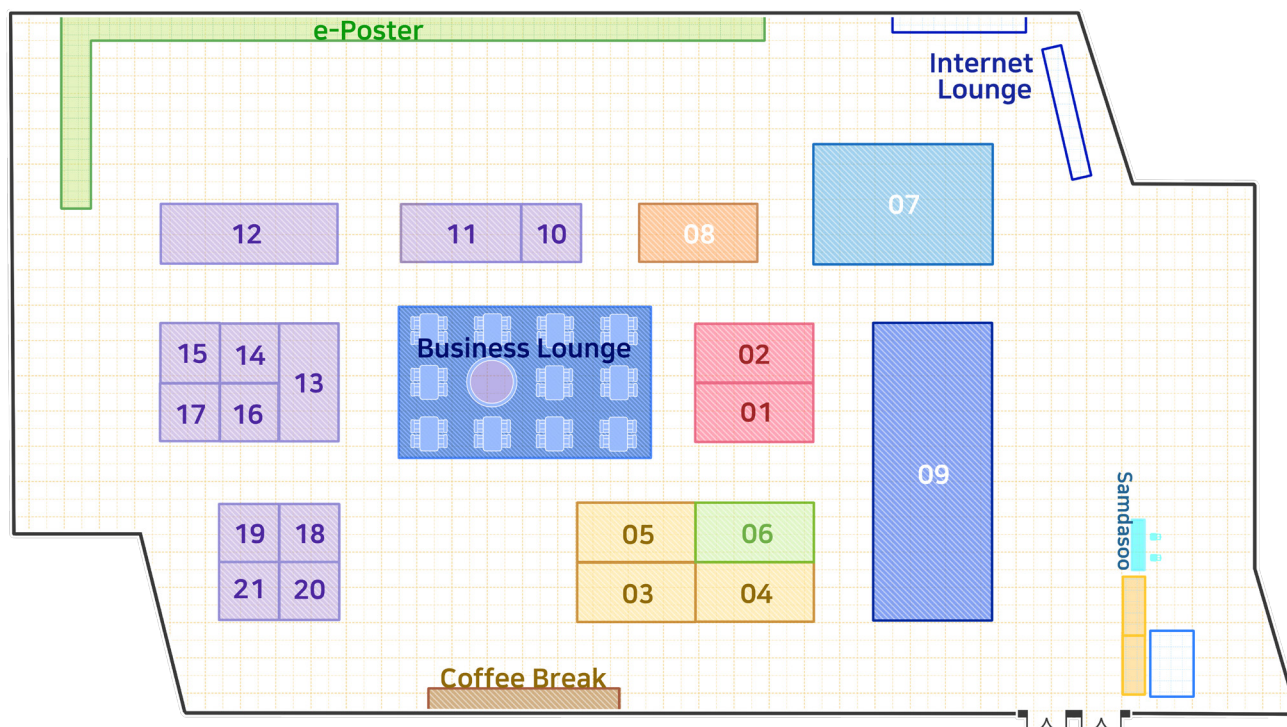


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9	International Astronomical Union (IAU)
10	Federation of Busan Science and Technology (FOBST)
11	Astralis
12	GA2024 NOC & South African Astronomical Observatory (SAAO) & Southern African Large Telescope (SALT)
13	NSF's NOIRLab
14	Gwacheon National Science Museum
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16	SKA Observatory
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20	Center for the Gravitational-Wave Universe
21	University of Science and Technology