

APRIM2026: 2026 ASIA-PACIFIC REGIONAL IAU MEETING

PROGRAM

AUTHORS

KEYWORDS

PROGRAM

Days: [Sunday, May 3rd](#) [Monday, May 4th](#) [Tuesday, May 5th](#) [Wednesday, May 6th](#)
[Thursday, May 7th](#) [Friday, May 8th](#)

Sunday, May 3rd

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

18:00-21:00 Welcome Reception

LOCATION: [Convention Hall](#)

Monday, May 4th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

09:00-10:30 Session 1: Opening Ceremony

CHAIR: [Quentin Parker](#)

LOCATION: [Convention Hall](#)

10:30-10:40 Session 2: Group Photo Session

10:40-11:00 ☕ Coffee Break

11:00-12:30 Session 3: HK Laureate Forum Session

Round table discussions with NOBEL & SHAW laureates

LOCATION: [Convention Hall](#)

12:30-14:00 🍴 Lunch Break

14:00-15:30 Session 4A: Parallel Session (A08)

Current Larger and Upcoming Astronomical facilities

LOCATION: [Convention Hall - B](#)

14:00 [Xuejun Zhang](#), [Lingtong Zhang](#) and [Longxiang Li](#)

Advanced Optical Manufacturing Technology of Large-Aperture Aspherical Surfaces ([abstract](#))

PRESENTER: [Xuejun Zhang](#)

14:40 [Moo-Young Chun](#)

Ground-based Optical Astronomy in South Korea : Past, present, and future ([abstract](#))

15:05 [Boonrucksar Soonthornthum](#)

Toward Sustainable Capacity Building in Science and Engineering for Lunar and Deep Space Exploration in Thailand. ([abstract](#))

15:20 [Satoshi Miyazaki](#)

Current Status of Subaru Telescope and its future plans ([abstract](#))

14:00-15:30 Session 4B: Parallel Session (A03)

High Energy Astrophysics

LOCATION: [Theatre 1](#)

14:00 [Bing Zhang](#)

Plenary talk (A03)

14:40 [Yuan K Ha](#)

New Properties of the Kerr Black Hole in the 21st Century ([abstract](#))

14:55 [Jinping Zhu](#) and [Bing Zhang](#)

Magnetar Engines in Broad-lined Type Ic Supernovae and a Unified Progenitor Model for Pulsar-aided and Magnetar-powered Supernovae ([abstract](#))

PRESENTER: [Jinping Zhu](#)

15:10 [Jiawen Li](#) and [Xinwu Cao](#)

Large-scale Magnetic Field and Magnetically Driven Outflow in Black Hole Accretion Systems ([abstract](#))

PRESENTER: [Jiawen Li](#)

14:00-15:30 Session 4C: Parallel session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

14:00 [Brian Schmidt](#)

Plenary Talk(A02) ([abstract](#))

14:40 [Karl Glazebrook](#)

The First Billion Years with JWST ([abstract](#))

15:05 [Shuang-Nan Zhang](#)

In-Depth Exploration of the Extreme Universe ([abstract](#))

15:20 [Vivian U](#), [Justin Kader](#) and [Loreto Barcos Muñoz](#)

A precessing radio jet drives super-heated gas outflow from a disk galaxy ([abstract](#))

PRESENTER: [Vivian U](#)

14:00-15:30 Session 4D: Parallel Session (A05)

The life cycle of Stars and their planets

LOCATION: [Convention Hall - A](#)

14:00 [I. F. Shaikhislamov](#), [D. V. Bisikalo](#), [M. S. Rumenskikh](#), [G. N. Tsurikov](#), [I. B.](#)

[Miroshnichenko](#), [S. S. Sharipov](#), [M. P. Golubovsky](#) and [A. G. Berezutsky](#)

New trends in complex modeling of atmospheres of hot exoplanet ([abstract](#))

PRESENTER: [I. F. Shaikhislamov](#)

14:40 [Thi Tuyet Nhung Pham](#), [Hoai Do](#) and [Pierre Darriulat](#)

On pulsating AGB stars ([abstract](#))

PRESENTER: [Thi Tuyet Nhung Pham](#)

15:05 [Amit Kashi](#)

Interacting Winds and Giant Eruptions in Massive Binaries, and their Effects on the Involved Stars ([abstract](#))

15:20 [Alexandre Gallenne](#)

High-precision mass and distance of stars ([abstract](#))

14:00-15:30 Session 4E: Parallel Meeting (SSC2)

2nd Space Debris & Sustainability Meeting

LOCATION: [Convention Hall - C](#)

14:00 [Qiang Wang](#)

Plenary Talk(SSC2) ([abstract](#))

14:40 [Eduard Kuznetsov](#), [Zhi Li](#) and [Feiran Li](#)

Search for orbits for long-term storage of end-of-life satellites in GNSS constellations ([abstract](#))

PRESENTER: [Eduard Kuznetsov](#)

14:55 [Simon Anghel](#)

Deep learning applied to streak detection in the context of space sustainability
([abstract](#))

15:10 [Renuka Devi R](#) and [Gokulakannan J](#)

**Data-Driven Strategies for Mitigating Space Debris and Managing Orbital Traffic:
An Extensive Study** ([abstract](#))

PRESENTER: [Renuka Devi R](#)

15:25 [Stephan Hellmich](#), [Elisabeth Rachith](#) and [Jean-Paul Kneib](#)

**Characterizing Space Object observations detected in large astronomical Data
Archives** ([abstract](#))

PRESENTER: [Stephan Hellmich](#)

15:30-16:00 ☕ Coffee Break & Poster Session

16:00-18:00 Session 5A: Parallel Session (A08)

Current Larger and Upcoming Astronomical facilities

LOCATION: [Convention Hall - B](#)

16:00 [Michael Mainelli](#)

Plenary Talk(A08)

16:40 [Xuelei Chen](#)

Discovering the Sky at Longest wavelength with a lunar orbit interferometer array
([abstract](#))

17:05 [Longxiang Li](#), [Donglin Xue](#), [Lingtong Zhang](#) and [Xuejun Zhang](#)

Optical manufacturing technologies based on industrial robots ([abstract](#))

PRESENTER: [Longxiang Li](#)

17:20 [Daisaku Nogami](#)

Optical and Infrared Synergetic Telescopes for Education and Research (OISTER)
([abstract](#))

17:35 [Ahmad Hariz Bin Bely](#), [Roslan Umar](#) and [Sharifah Nurul Aisyah Syed Zafar](#)

**Pusat Astronomi Borneo's Facilities: Developing a Sustainable Ground-Based
Observatory for Optical and Radio Astronomy in Malaysia** ([abstract](#))

PRESENTER: [Ahmad Hariz Bin Bely](#)

16:00-18:00 Session 5B: Parallel Session (A03)

High Energy Astrophysics

LOCATION: [Theatre 1](#)

16:00 [Hyesung Kang](#)

Nonthermal Phenomena at the Largest Scales: Particle Acceleration and Multiwavelength Emissions in Galaxy Clusters ([abstract](#))

16:40 [Dongsu Ryu](#), [Hyesung Kang](#) and [Jeongphin Seo](#)

Ultrahigh-Energy Cosmic Rays from Local Radio Galaxies ([abstract](#))

PRESENTER: [Dongsu Ryu](#)

16:55 [Pradip Kumar Chattopadhyay](#)

Mass-radius prediction of compact stars as well as lighter objects of GW events GW 170817 and GW 190814 using CFL equation of state with QCD correction factor ([abstract](#))

17:10 [Soumya Gupta](#), [Sunder Sahayanathan](#), [Rahul Gupta](#), [Tanmoy Chattopadhyay](#) and [Dipankar Bhattacharya](#)

Exploring the radiation mechanism of extremely energetic GRB 230307A using spectro-polarimetry observations ([abstract](#))

PRESENTER: [Soumya Gupta](#)

17:25 [Lijing Shao](#)

Bayesian ringdown analysis and tests of charged black holes ([abstract](#))

17:40 [Harshita](#)

Self-similar solution using group invariance method for shock wave in rotating self-gravitating ideal gas with magnetic field. ([abstract](#))

16:00-18:00 Session 5C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

16:00 [Itziar Aretxaga](#), [Grant W. Wilson](#), [Alfredo Montaña](#), [Araceli Nava-Moreno](#), [Min S. Yun](#) and [Alexandra Pope](#)

ToI TEC surveys: mapping the dusty galaxy contribution to the star formation history ([abstract](#))

PRESENTER: [Itziar Aretxaga](#)

16:15 [Huanqing Chen](#)

Quasar Pairs at $z > 5$: Windows into Early SMBH Growth and the Cosmic Environment ([abstract](#))

16:30 [Xue-Bing Wu](#), [Yuming Fu](#), [Su Yao](#) and [Feige Wang](#)

Quasar surveys in China and two million quasar candidate selections ([abstract](#))

PRESENTER: [Xue-Bing Wu](#)

16:45 [Yongming Liang](#)

Cosmic Himalayas: A Record Quasar Concentration at Cosmic Noon Bridging AGNs, Galaxies, and IGM ([abstract](#))

17:00 [Dawei Xu](#) and [Jing Wang](#)

Exploring the Nature of Changing-look AGNs ([abstract](#))

PRESENTER: [Dawei Xu](#)

17:15 [Hiroyuki Ikeda](#)

A New Color Selection for Red Quasars in the COSMOS Field ([abstract](#))

17:30 [Tsang Keung Chan](#), [Xiaoyuan Yang](#), [Haina Huang](#) and [Jonathan Tang](#)

Simulating Gas and Dark Matter in the cosmic dawn and epoch of reionization ([abstract](#))

PRESENTER: [Tsang Keung Chan](#)

17:45 [Sung Kei Li](#)

Extremely magnified stars as a probe of star formation properties in distant galaxies ([abstract](#))

16:00-18:00 Session 5D: Parallel Session (A05)

The life cycle of Stars and their planets

LOCATION: [Convention Hall - A](#)

16:00 [Yuri Aikawa](#)

Physical and chemical structure of disks around low-mass young stellar objects ([abstract](#))

16:25 [Sumi Bhattacharjee](#) and [Asoke Kumar Sen](#)

A Study of Background Stars' Extinction from the Outer Periphery Toward the Core of Isolated CB Clouds ([abstract](#))

PRESENTER: [Sumi Bhattacharjee](#)

16:40 [Poulomi Palit](#) and [Asoke Kumar Sen](#)

Comparative Analysis of Two Bidirectional Reflectance Models for Asteroid Regolith Analogue Surface ([abstract](#))

PRESENTER: [Poulomi Palit](#)

16:55 [Syed Hasan](#), [Priya Shah](#) and [Ibtisam Shaikh](#)

A possible mechanism for the formation and existence of out-of-plane exoplanets ([abstract](#))

PRESENTER: [Syed Hasan](#)

17:10 [Jessy Jose](#)

How Outer-Galaxy Environmental Conditions Shape Star Formation in the Milky

Way? ([abstract](#))

17:25 [Changqing Luo](#)

A born ultramassive white dwarf-hot subdwarf super-Chandrasekhar candidate
([abstract](#))

17:40 [Seyedabdolreza Sadjadi](#) and [Quentin Andrew Parker](#)

The Diagnostic Character of the 3 micron Spectral Region in understanding the complex chemistry of Planetary Nebulae ([abstract](#))

PRESENTER: [Seyedabdolreza Sadjadi](#)

16:00-18:00 Session 5E: Parallel Meeting (SSC2)

2nd Space Debris & Sustainability Meeting

LOCATION: [Convention Hall - C](#)

Tuesday, May 5th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

09:00-10:30 Session 6A: Parallel Session (A06)

Radio, mm and sub-mm astronomy

LOCATION: [Convention Hall - B](#)

09:00 [Matthew Bailes](#)

Plenary Talk(A06) ([abstract](#))

09:40 [Lister Staveley-Smith](#)

ASKAP-FAST-SKA-mid synergies ([abstract](#))

10:05 [Jinzeng Li](#)

Overview of the joint-CART project between China and Argentina ([abstract](#))

10:20 [Liyong Liu](#)

Water Vapor Monitoring at Ali Observatory: Characterizing an Exceptional Millimeter/Submillimeter Wave Astronomy Site ([abstract](#))

09:00-10:30 Session 6B: Parallel Session (A03)

High Energy Astrophysics

LOCATION: [Theatre 1](#)

09:00 [Victoria Kaspi](#)

Plenary Talk(A03) ([abstract](#))

09:40 [Weimin Yuan](#)

Exploring the dynamic X-ray universe with Einstein Probe ([abstract](#))

10:05 [Yi-Han Iris Yin](#)

Minutes-long soft X-ray prompt emission from a compact object merger ([abstract](#))

10:20 [Shu Zhang](#)

Exploring XRB with Insight-HXMT ([abstract](#))

09:00-10:30 Session 6C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

09:00 [Luis Ho](#)

Rise of the Giants: Witnessing the Birth of Supermassive Black Holes at Cosmic Dawn ([abstract](#))

09:40 [Tirthankar Roy Choudhury](#)

Galaxies and the Intergalactic Medium at Cosmic Dawn ([abstract](#))

10:05 [Yuangqi Liu](#) and [Tao An](#)

VLBI Identification of a Wandering Black Hole in a Dwarf Galaxy ([abstract](#))

PRESENTER: [Yuangqi Liu](#)

10:20 [Yuxuan Wu](#), [Tao Wang](#) and [Daizhong Liu](#)

Overmassive Black holes live in compact galaxies in the early Universe ([abstract](#))

PRESENTER: [Yuxuan Wu](#)

09:00-10:30 Session 6D: Parallel Session (A01)

Astronomy Public Outreach and Education

LOCATION: [Convention Hall - A](#)

09:00 [Teresa Paneque](#)

Plenary Talk(A01)

09:40 [Jungjoo Sohn](#), [In-yeop Jeon](#), [Hyun-ah Cho](#), [Jae-hee Choi](#) and [Chang-Hyun Yoo](#)

Empowering Scientific Reasoning through Astronomy-Based Data Science ([abstract](#))

PRESENTER: [Jungjoo Sohn](#)

10:05 [Saeed Salimpour](#) and [Andrew Yen](#)

Connecting the Universe - International cooperation in robotic telescopes for research education ([abstract](#))

PRESENTER: [Andrew Yen](#)

10:20 [Jayanta Acharya](#)

Educating astronomy for girls student in Nepal ([abstract](#))

09:00-10:30 Session 6E: Parallel Meeting (SSC2)

2nd Space Debris & Sustainability Meeting

LOCATION: [Convention Hall - C](#)

09:00 [Yang Gao](#)

Plenary Talk(SSC2)

09:40 [Chen Song](#)

Research on Attitude Estimation Method Based on Differential Laser Ranging of Satellites with Multiple Retroreflectors ([abstract](#))

09:55 [Antonia Rahayu Rosaria Wibowo](#)

Achieving Space Sustainability and Preserving Indigenous Astronomical Knowledge through Astrotourism: Recommendations for Indonesia ([abstract](#))

10:10 [Vladislav Zubko](#), [Olga Chernenko](#) and [Maksim Pupkov](#)

A multiple asteroid exploration framework using resonant orbits and Venus gravity assists ([abstract](#))

PRESENTER: [Vladislav Zubko](#)

10:30-11:00 ☕ Coffee Break & Poster Session

11:00-12:30 Session 7A: Parallel Session (A06)

Radio, mm and sub-mm astronomy

LOCATION: [Convention Hall - B](#)

11:00 [Taufiq Hidayat](#), [Jinling Li](#) and [Hesti Wulandari](#)

Recent Development of a VLBI Radio Telescope at Bosscha Observatory and the Future VLBI Networking in Southeast Asia Countries ([abstract](#))

PRESENTER: [Taufiq Hidayat](#)

11:25 [Wu Jiang](#) and [Zhiqiang Shen](#)

Updating Chinese VLBI Network with incorporating new big dishes and new technology ([abstract](#))

PRESENTER: [Wu Jiang](#)

11:40 [Xiaopeng Cheng](#), [Bong Won Sohn](#), [Jun Yang](#), [Ranieri Diego Baldi](#), [David Williams-Baldwin](#), [Willem Baan](#) and [Tao An](#)

From Nearby Faint AGNs to a Dormant SMBH: VLBI Studies toward the SKA-VLBI Era ([abstract](#))

PRESENTER: [Xiaopeng Cheng](#)

11:55 [Adipol Phosrisom](#)

SKA-Era Spider Pulsars: Optical Discovery of the Fastest-Spinning and Heaviest Neutron Stars ([abstract](#))

12:10 [Jinlin Han](#)

So many pulsars discovered by FAST: What's new? ([abstract](#))

11:00-12:30 Session 7B: Parallel Session (A03)

High Energy Astrophysics

LOCATION: [Theatre 1](#)

11:00 [Aru Beri](#)

Probing Accretion and Jets in the Time Domain: Synergies Between X-ray, Radio, and Optical Facilities ([abstract](#))

11:25 [Ruchika Dhaka](#), [Prof. Ranjeev Misra](#), [Prof. Pankaj Jain](#) and [Prof. Js Yadav](#)

Connecting QPO Frequencies with Accretion Flow Properties in GRS 1915+105 ([abstract](#))

PRESENTER: [Ruchika Dhaka](#)

11:40 [Haisheng Zhao](#) and [Ying Tan](#)

Observations of lightning-induced electron precipitation by Insight-HXMT satellite ([abstract](#))

PRESENTER: [Haisheng Zhao](#)

11:55 [Xiangxiang Wang](#) and [Junpei Takata](#)

Cataclysmic variable candidates identified in eROSITA-DE DR1, XMM-Newton, Swift, and ROSAT catalogs ([abstract](#))

PRESENTER: [Xiangxiang Wang](#)

12:10 [Bojing Zhu](#), [Wu Wang](#) and [Yongbing Li](#)

Multi-component-isotope-abundance SEPs acceleration: A model driven by coupled fractal turbulence MR and hydrodynamic-magnetodynamic-kinetic evolution across diverse ionization ([abstract](#))

PRESENTER: [Bojing Zhu](#)

11:00-12:30 Session 7C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

11:00 [Haifeng Wang](#), [Guanyu Wang](#) and [Giovanni Carraro](#)

Towards Understanding the Milky Way's Matter Field and Dynamical Accretion

History ([abstract](#))

PRESENTER: [Haifeng Wang](#)

11:15 [Yuanqi Liu](#), [Tao An](#) and [Luca Ighina](#)

Exploring the Diversity of High-Redshift AGN Radio Activity ([abstract](#))

PRESENTER: [Yuanqi Liu](#)

11:30 [Petr Kurfürst](#), [Michal Zajaček](#), [Norbert Werner](#) and [Jiří Krtička](#)

Red giant–jet collisions in galactic nuclei: 3D hydrodynamical model of a few stellar orbits ([abstract](#))

PRESENTER: [Petr Kurfürst](#)

11:45 [Rommulus Lewis](#), [Amruth Alfred](#) and [Jeremy Lim](#)

Unveiling the Imperfections in Perfect External Shear Gravitational Lens Models ([abstract](#))

PRESENTER: [Rommulus Lewis](#)

12:00 [Leen Alrawas](#)

Tracing Early Galaxy Evolution up to $z = 4.5$: Insights from the Extended HELLO Simulations ([abstract](#))

12:15 [Shankar Ray](#), [Suraj Dhiwar](#), [Joydeep Bagchi](#) and [M. B. Pandge](#)

Early Stellar Growth, Low- z Star Formation, and Missing Baryons in Massive Fast-Rotating Spiral Galaxies ([abstract](#))

PRESENTER: [Shankar Ray](#)

11:00-12:30 Session 7D: Parallel Session (A01)

Astronomy Public Outreach and Education

LOCATION: [Convention Hall - A](#)

11:00 [Nan Li](#), [Shanshan Li](#), [Peng Jia](#) and [Chenzhou Cui](#)

The First Citizen Science Platform for Astronomy in China and the Future ([abstract](#))

PRESENTER: [Nan Li](#)

11:25 [Sze-Leung Cheung](#)

Bridging the Gap: Translating IAU Global Outreach Strategies into Local Impact in Hong Kong ([abstract](#))

11:40 [Aran Lyo](#), [Hoseop Yoon](#), [Jungjoo Sohn](#) and [Changbom Park](#)

Astronomy Outreach in Cambodia: Building a Sustainable Educational Framework ([abstract](#))

PRESENTER: [Aran Lyo](#)

11:55 [Ryan Manuel Guido](#)

Exploring Astronomy Education in the Basic Education in the Philippines ([abstract](#))

12:10 [Hesti Wulandari](#)

Safeguarding a Century-Old Bosscha Observatory: Light Pollution, Heritage Protection, Community-Based Strategies ([abstract](#))

11:00-12:30 Session 7E: Parallel Meeting (SSC2)

2nd Space Debris & Sustainability Meeting

LOCATION: [Convention Hall - C](#)

11:00 [曙曙王](#)

Research on Attitude Inversion from CZ4C Light Curves Based on Numerical Simulation ([abstract](#))

11:15 [Hao Qiu](#), [Boris Sorokin](#), [Daniel Price](#), [Federico Di Vruno](#) and [D. Ethan Davidson](#)

Simulating the satellite constellation impact on large radio telescope Arrays ([abstract](#))

PRESENTER: [Hao Qiu](#)

11:30 [Vladislav Zubko](#)

Determining Eclipse Duration for a Venus Orbiting Satellite Using a Geometric Approach ([abstract](#))

11:45 [Elisabeth Rachith](#), [Stephan Hellmich](#) and [Jean-Paul Kneib](#)

Satellite trail detection and impact assessment in the VST/OmegaCAM archive ([abstract](#))

PRESENTER: [Elisabeth Rachith](#)

12:00 [Christopher Kebschull](#)

Promoting Space Sustainability through Space Traffic Coordination ([abstract](#))

12:15 [Yohann Felicite](#) and [Kanthanakorn Noysena](#)

Real-Time Solar Glint Detection for Satellite-to-Satellite Monitoring in Low Earth Orbit ([abstract](#))

PRESENTER: [Kanthanakorn Noysena](#)

12:30-14:00 || Lunch Break

14:00-15:30 Session 8A: SKAO

Moderated by SKAO, SOC do not touch this.

LOCATION: [Convention Hall - B](#)

14:00 [George Heald](#)

Commissioning the SKA Telescopes - Advancing toward Science ([abstract](#))

14:25 [Shari Breen](#)

Science Verification Overview ([abstract](#))

14:40 [Jimi Green](#)

Preparing for SKA-Low Science Verification ([abstract](#))

14:55 [Sarrvesh Seethapuram Sridhar](#)

Science Capabilities of the SKA Telescopes and User Tools ([abstract](#))

15:10 [Christina Smith](#)

The SKA Helpdesk and User Support ([abstract](#))

14:00-15:30 Session 8B: Parallel Session (A03)

High Energy Astrophysics

LOCATION: [Theatre 1](#)

14:00 [Hyesung Kang](#), [Dongsu Ryu](#) and [Jeongbhin Seo](#)

Shocks and Radio Emission in Idealized Binary Cluster Mergers ([abstract](#))

PRESENTER: [Hyesung Kang](#)

14:15 [Amarnath](#) and [Yogesh Maan](#)

QMIST: A Software Pipeline for the Detection of Quasi-periodic Microstructures in Pulsar Emission ([abstract](#))

PRESENTER: [Amarnath](#)

14:30 [Shijie Zheng](#) and [Mingyu Ge](#)

Time-keeping for the aircraft with celestial objects in deep space ([abstract](#))

PRESENTER: [Shijie Zheng](#)

14:45 [Dr Prithvi Raj Singh](#) and [Dr T K Pant](#)

Variation of Solar Activity Parameters during Solar Cycles 24 and 25 ([abstract](#))

PRESENTER: [Dr Prithvi Raj Singh](#)

15:00 [Teo Muñoz-Darias](#)

Accretion and outflows in stellar-mass black holes ([abstract](#))

14:00-15:30 Session 8C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

14:00 [Sreeja Sudarsanan Kartha](#), [Ujjwal Krishnan](#), [Akhil Krishna R](#) and [Blesson Mathew](#)

Tracing the star formation across cosmic environments with UVIT on AstroSat ([abstract](#))

PRESENTER: [Sreeja Sudarsanan Kartha](#)

14:15 [Yuxiang Qin](#)

Unveiling the Nature of High-Redshift Galaxies with JWST: Challenges and Insights from Theory and Simulations ([abstract](#))

14:30 [Sanjaya Paudel](#)

Deep-Learning-Assisted Large-Scale Distribution of Dwarf Elliptical Galaxies in the Virgo Cluster ([abstract](#))

14:45 [Vivek Kumar Jha](#)

Towards Reliable Galaxy Property Inference for the LSST Era ([abstract](#))

15:00 [Kaustubh Rajesh Gupta](#), [Glenn Kacprzak](#) and [Tania Barone](#)

Gravitational lensing reveals spatially-resolved metal-rich gas flows in the circumgalactic medium of a $z \sim 0.86$ galaxy ([abstract](#))

PRESENTER: [Kaustubh Rajesh Gupta](#)

15:15 [Yuguang Chen](#) and [Zhuo Cheng](#)

Precision Nebular Astrophysics with CIRAAS ([abstract](#))

PRESENTER: [Yuguang Chen](#)

14:00-15:30 Session 8D: Parallel Session (A01)

Astronomy Public Outreach and Education

LOCATION: [Convention Hall - A](#)

14:00 [Itziar Aretxaga](#)

Training graduate students around the world ([abstract](#))

14:25 [Guosheng Yin](#)

A brief history of black holes ([abstract](#))

14:40 [Zhongyue Chen](#), [Yingjun Yuan](#), [Jingguo Dai](#), [Xiaoyu Tang](#), [Yang Huang](#), [Xiaodian Chen](#), [A-Li Luo](#), [Chiye Li](#), [Jifeng Liu](#), [Yongfu Hao](#), [Junhui Shi](#) and [Guirong Xue](#)

OneAstronomy: A Multimodal Foundation Model for Astronomical Research ([abstract](#))

PRESENTER: [Yongfu Hao](#)

14:55 [Roslan Umar](#) and [Hilman Shahmeer Mohamed Azmi](#)

Enhancing Astronomy Education Through Hybrid Learning: Interactive AL-KAHF Card Game with Augmented Reality ([abstract](#))

PRESENTER: [Hilman Shahmeer Mohamed Azmi](#)

15:10 [Fumi Yoshida](#), [Tsutomu Hayamizu](#), [Hayato Watanabe](#), [Hiroshi Akitaya](#), [Kazuhisa Miyashita](#), [Hiroto Noda](#), [Mitsuru Sôma](#), [Chilong Lin](#), [Ye Yuan](#), [Wai-Chun Yue](#), [Toshihiro](#)

[Horaguchi](#), [Kenta Kono](#), [Hisashi Kasebe](#), [Hiroshi Kishimoto](#), [Hidehito Yamamura](#) and [David Dunham](#)

Astronomical education through observations of asteroid occultations ([abstract](#))

PRESENTER: [Fumi Yoshida](#)

14:00-15:30 Session 8E: Parallel Meeting (SSC2)

2nd Space Debris & Sustainability Meeting

LOCATION: [Convention Hall - C](#)

14:00 [Gulchehra Kokhirova](#)

SOME RESULTS OF SPACE DEBRIS' INVESTIGATIONS IN TAJIKISTAN ([abstract](#))

14:15 [Aila Raquel Cruz Ribeiro](#)

Space sustainability from the perspective of satellite operators: rights and duties of coordinating constellations with ground-based astronomy and astrophysics operations ([abstract](#))

14:30 [Valentin Uvarov](#) and [Evgeniy Tetarchenko](#)

"International approaches and models of training personnel in the social and humanitarian fields in the context of a multidisciplinary approach to the development of the space sustainability " ([abstract](#))

PRESENTER: [Valentin Uvarov](#)

14:55 [Ciara McGrath](#)

Visualising a Sustainable Space Future ([abstract](#))

15:20 [Yehia Abdel-Aziz](#)

Improving Space Situational Awareness: Bridging the Capability Gap in the Middle East and Africa ([abstract](#))

15:30-16:00 ☕ Coffee Break & Poster Session

16:00-18:00 Session 9A: SKAO

Moderated by SKAO. SOC do not touch this.

LOCATION: [Convention Hall - B](#)

16:00 [Nichol Cunningham](#)

Planning towards Science Delivery within the SRCNet ([abstract](#))

16:15 [Mengyao Xue](#) and [Qiuyang Fu](#)

Effectively processing SKA-low precursor pulsar search data in China and an SRCNet pulsar demonstration ([abstract](#))

PRESENTER: [Mengyao Xue](#)

16:30 [Naomi McClure-Griffiths](#)

An overview and pathway to SKA Science ([abstract](#))

16:00-18:00 Session 9B: Parallel Session (A03)

High Energy Astrophysics

LOCATION: [Theatre 1](#)

16:00 [Stephen Ng](#)

Multiwavelength Observations of Pulsar Wind Nebulae ([abstract](#))

16:15 [Partha Sarathi Pal](#), [Xiao-Qing Liang](#), [Pak-Hin Thomas Tam](#), [Rishank Diwan](#) and [Wenjun Huang](#)

Searching for Spider-Like Pulsars from TESS Ellipsoidal Lightcurves with X-ray counterparts ([abstract](#))

PRESENTER: [Partha Sarathi Pal](#)

16:30 [Rai Yuen](#)

Simulation of the off-pulse fractions in nulling pulsars and RRATs with segmented emission regions ([abstract](#))

16:45 [Jiaxin Liu](#) and [Jumpei Takata](#)

Investigation for Binary Characteristics of LS I + 61°303 with Optical Polarization ([abstract](#))

PRESENTER: [Jiaxin Liu](#)

17:00 [Snehasish Bhattacharjee](#) and [Yen-Chen Pan](#)

The Ultraviolet Spectra of 2003fg-like Type Ia Supernovae ([abstract](#))

PRESENTER: [Snehasish Bhattacharjee](#)

17:15 [Mohit Bhardwaj](#)

Linking Local-Universe Constraints to the Origins of Fast Radio Bursts: Host Galaxies, Progenitor Pathways, and the Road Ahead ([abstract](#))

17:30 [Yuzhe Song](#)

Modelling Pulsar Populations Through Binary Population Synthesis and N-body Simulation ([abstract](#))

17:45 [Lei Zhang](#)

Pulsed radio emission from a Central Compact Object ([abstract](#))

16:00-18:00 Session 9C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

- 16:00 [Bin Luo](#)
The Curious Case of PHL 1811: Heavy Obscuration Versus Intrinsic X-ray Weakness ([abstract](#))
- 16:15 [Allison Man](#), [Lucas Kuhn](#) and [Laya Ghodsi](#)
Multiphase circumgalactic medium of a brightest cluster galaxy with JWST ([abstract](#))
PRESENTER: [Allison Man](#)
- 16:30 [Asher Yahalom](#)
Uncertainty Relation for Retarded Gravity ([abstract](#))
- 16:45 [Zhaoxuan Liu](#), [John Silverman](#) and [Emanuele Daddi](#)
How do mergers accelerate the buildup and transformation of massive galaxies? ([abstract](#))
PRESENTER: [Zhaoxuan Liu](#)
- 17:00 [Dazhi Zhou](#), [Scott Chapman](#) and [Joaquin Vieira](#)
Detection of Sunyaev-Zeldovich effect at redshift 4.3 ([abstract](#))
PRESENTER: [Dazhi Zhou](#)
- 17:15 [Thatchayuth Klipbua](#), [Krittapas Chanchaiworawit](#) and [Vicki Sarajedii](#)
Tracing the Coevolution of Galaxies and Black Holes: Sérsic Profiles as a Predictor of SMBH Growth Across Cosmic Time ([abstract](#))
PRESENTER: [Thatchayuth Klipbua](#)
- 17:30 [Daniel Devost](#) and [Benoît Épinat](#)
Deep J, Ks, r morphological study of a sample of grand design nearby galaxies. ([abstract](#))
PRESENTER: [Daniel Devost](#)
- 17:45 [Martha Margarita Lopez Gutierrez](#) and [Changbom Park](#)
A Method for Identifying Galaxy Protoclusters: From Simulations Toward Observations ([abstract](#))
PRESENTER: [Martha Margarita Lopez Gutierrez](#)

16:00-18:00 Session 9D: Parallel Session (A01)

Astronomy Public Outreach and Education

LOCATION: [Convention Hall - A](#)

- 16:00 [Robert Hollow](#)
Radio Astronomy in High Schools: Challenges and Opportunities ([abstract](#))
- 16:15 [Manisha Dwa](#) and [Suresh Bhattarai](#)

"Breaking Barriers: NASO's Initiative for Inclusive Astronomy Education in Nepal and Beyond" ([abstract](#))

PRESENTER: [Manisha Dwa](#)

16:30 [Mark Anthony Aguilando](#), [Ryan Andrew Doña](#), [Kirk Anthony Camus](#), [Mary Jane Sablan](#), [Rhobee Rhames Reyes](#), [Mark Benedick Topinio](#), [Cheska Mae Culo](#), [Mikaella Nicole Mercolesia](#), [Moreen Lamsen](#), [Jianro Fadul](#), [Princess Emerald Pacibe](#), [Jerwin Maynigo](#), [Mateo Danielle Benito](#) and [Aldei Rodriguez](#)

Project TALA: Advancing Astronomy Literacy Through A Summer School Camp in Valenzuela City, Philippines ([abstract](#))

PRESENTER: [Mark Anthony Aguilando](#)

16:45 [Daryl Joe Santos](#), [Kristine Jane Atienza](#), [Mark Angelo Purio](#), [Harlee Quizzagan](#), [Bernadette Detera](#), [Bernard Isaiah Lo](#), [Dylan Josh Lopez](#), [Ernest Macalalad](#), [Norman Reuel Marigza Jr.](#), [Rosario Ramos](#) and [Reinabelle Reyes](#)

Inclusion, Diversity, Equity, and Accessibility (IDEA) Initiatives in the 1st Philippine Space Science and Astronomy Research Conference (PSSARC) ([abstract](#))

PRESENTER: [Daryl Joe Santos](#)

17:00 [Pietro Borsano](#), [Ka Keung Liu](#) and [Tsz Hin Man](#)

From Harbour to Orbit: Hong Kong's NewSpace Ecosystem ([abstract](#))

PRESENTER: [Pietro Borsano](#)

17:15 [Tan Vu Nguyen](#)

Astronomy Education and Public Engagement for a Global Future: Empirical Insights from an Interdisciplinary Study ([abstract](#))

17:30 [Jean-Gabriel Cuby](#), [Kara Dumaguin](#), [Christine Matsuda](#), [Rich Matsuda](#) and [John O'Meara](#)
Astronomy's relationship with the lands and communities of Maunakea: an update. ([abstract](#))

PRESENTER: [Jean-Gabriel Cuby](#)

17:45 [Thilina Heenatigala](#)

Sustainable development of astronomy in Sri Lanka, from outreach to research ([abstract](#))

16:00-18:00 Session 9E: Parallel Meeting (SSC2)

2nd Space Debris & Sustainability Meeting

LOCATION: [Convention Hall - C](#)

16:00 [Dorje Angchuk](#), [Dr. Niruj Mohan Ramanujam](#), [Prof Annapurni Subramaniam](#) and [Anmol Tickoo](#)

Seeking darkness in a crowded world: Ground-Based Astronomy, Cultural Heritage, and Space Sustainability in Hanle. ([abstract](#))

PRESENTER: [Dorje Angchuk](#)

16:25 [Olga Chernenko](#), [Vladislav Zubko](#), [Maksim Pupkov](#) and [Natan Eismont](#)
Design of energy-efficient Earth-resonant trajectories and Lunar flyby opportunities for near-Earth asteroids redirection ([abstract](#))

PRESENTER: [Olga Chernenko](#)

16:40 [Chen Zhang](#).

Transition from CCD to CMOS in the Optical Telescope Array: Performance Gains in LEO Astrometry and Time-Domain Imaging ([abstract](#))

16:55 [David Chew](#) and [Samar Abdelfattah](#)

The Operator Impact Model: Quantifying Economic Trade Offs and Regulatory Compliance for Sustainable Low Earth Orbit Development ([abstract](#))

PRESENTER: [David Chew](#)

17:10 [Quentin Parker](#) and [Meng Su](#)

An NGO to manage the proposed Global Space Sustainability Hub in Hong Kong SAR ([abstract](#))

PRESENTER: [Quentin Parker](#)

17:25 [Rhorom Priyatikanto](#), [Judhistira Aria Utama](#) and [Lala Septem Riza](#)

Analyzing Twilight Sky Brightness and Light Pollution Perturbations via GaN-MN Density Distributions ([abstract](#))

PRESENTER: [Rhorom Priyatikanto](#)

Wednesday, May 6th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

09:00-10:30 Session 10A: Parallel Session (A06)

Radio, mm and sub-mm astronomy

LOCATION: [Convention Hall - B](#)

09:00 [Sarah Pearce](#)

Plenary Talk(A06) ([abstract](#))

09:40 [Di Li](#)

A Unified Evolutionary Picture of FRBs ([abstract](#))

10:05 [Zi-Liang Zhang](#) and [Bing Zhang](#)

Cosmological Parameter Estimate from Persistent Radio Sources of Fast Radio

Bursts ([abstract](#))

PRESENTER: [Zi-Liang Zhang](#)

10:20 [Yuri Uno](#), [Tetsuya Hashimoto](#), [Tomotsugu Goto](#), [Shinnosuke Hisano](#), [Yi Hang Valerie Wong](#), [Arthur Chen](#), [Sujin Eie](#), [Simon C.-C. Ho](#), [James O. Chibueze](#), [Yu-Wei Lin](#), [Seong Jin Kim](#), [Tzu-Yin Hsu](#), [Poya Wang](#), [Pei Wang](#) and [Murthadz Aznam](#)

Do they repeat? Monitoring 36 non-repeating FRBs with FAST ([abstract](#))

PRESENTER: [Yuri Uno](#)

10:35 [Simon C.-C. Ho](#), [Chris Flynn](#), [Matthew Bailes](#), [Lei Zhang](#), [Emma Carli](#) and [Kenneth Freeman](#)

Searching for fast radio bursts from globular clusters in the M49 using FAST ([abstract](#))

PRESENTER: [Simon C.-C. Ho](#)

09:00-10:30 Session 10B: Parallel Session (A04)

Gravitational Wave Astronomy

LOCATION: [Theatre 1](#)

09:00 [Tarun Sauradeep](#)

LIGO India ([abstract](#))

09:25 [Wynn Ho](#)

Monitoring young X-ray pulsars and searching for their gravitational wave emission ([abstract](#))

09:40 [Samson Leong](#) and [Juan Calderón Bustillo](#)

Measuring recoils of black-hole mergers and applications in multi-messenger astronomy ([abstract](#))

PRESENTER: [Samson Leong](#)

09:55 [Suyog Garg](#)

Encoder-decoder networks for gravitational waveform modeling and source parameter estimation ([abstract](#))

09:00-10:30 Session 10C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

- 09:00 [Kwang-il Seon](#)
Monte Carlo Simulation of Resonance and Fluorescence Lines in the Interstellar and Circumgalactic Medium ([abstract](#))
- 09:15 [Dongseob Lee](#) and [Hyunjin Shim](#)
Exploring Stellar Population Gradients of Nearby Galaxies with SPHEREx via Machine Learning ([abstract](#))
PRESENTER: [Dongseob Lee](#)
- 09:30 [Graziano Rossi](#)
Beyond Two-Point Statistics: Higher-Order Cosmic-Web Probes for Neutrino Mass Detection ([abstract](#))
- 09:45 [Nicha Leethochawalit](#)
UV Galaxy Luminosity Functions at high redshifts: Bright Ends and Beyond ([abstract](#))
- 10:00 [Vibhore Negi](#)
Metallicity radial profiles in star-forming galaxies and active galactic nuclei ([abstract](#))
- 10:15 [Kyle Finner](#), [Bomee Lee](#) and [Ranga-Ram Chary](#)
Mass mapping and overdensity characterization using near-IR weak-lensing measurements in the CANDELS Fields ([abstract](#))
PRESENTER: [Bomee Lee](#)

09:00-10:30 Session 10D: Parallel Session (A01)

Astronomy Public Outreach and Education

LOCATION: [Convention Hall - A](#)

- 09:00 [Jessada Keeratibharat](#) and [Khomsan Thuree](#)
Democratizing Immersive Astronomy Education: A Scalable Low-Cost DIY Planetarium Model for the Asia-Pacific ([abstract](#))
PRESENTER: [Jessada Keeratibharat](#)
- 09:15 [Matipon Tangmatitham](#)
The Southeast Asia Planetarium, Education, and Outreach Conference ([abstract](#))
- 09:30 [Natthida Yarangsri](#) and [Matipon Tangmatitham](#)
SEAAN and SEA-ROAD: Fostering Regional Collaboration and Driving the Growth of Astronomy in Southeast Asia ([abstract](#))
PRESENTER: [Natthida Yarangsri](#)
- 09:45 [Rujida Kuramarohit](#) and [Matipon Tangmatitham](#)

ITCA Teacher Training Workshop: Expanding Access to Astronomy Education Through International Teacher Training ([abstract](#))

PRESENTER: [Rujida Kuramarohit](#)

10:00 [Duduzile Kubheka](#)

BRICS Astronomy coordination and the societal benefits programme: Leveraging astronomy for shared growth and development ([abstract](#))

10:15 [Cintia Duran](#) and [Montserrat Alvarez](#)

Development and design of a web framework for the organisation and visualisation of data on astronomy outreach events and engagement communities. ([abstract](#))

PRESENTER: [Cintia Duran](#)

09:00-10:30 Session 10E: Parallel Meeting (SSC2)

2nd Space Debris & Sustainability Meeting

LOCATION: [Convention Hall - C](#)

09:00 [Lei Wang](#), [Xiaoming Zhang](#) and [Xiaojun Jiang](#)

Research on Multi-Space Object Detection and Tracking Technology ([abstract](#))

PRESENTER: [Lei Wang](#)

10:30-11:00 ☕ Coffee Break & Poster Session

11:00-12:30 Session 11A: Parallel Session (A06)

Radio, mm and sub-mm astronomy

LOCATION: [Convention Hall - B](#)

11:00 [Chin-Fei Lee](#)

Mapping the Early Processes of Star Formation with ALMA ([abstract](#))

11:15 [Roslan Umar](#) and [Ahmad Hariz Bin Bely](#)

Assessing Radio Frequency Interference in Sarawak: Efforts by the Malaysian Radio Astronomy Frequency Committee ([abstract](#))

PRESENTER: [Roslan Umar](#)

11:30 [Gisela Esplugues](#), [Marcelino Agúndez](#), [Germán Molpeceres](#), [Belén Tercero](#), [Carlos Cabezas](#), [Nuria Marcelino](#) and [José Cernicharo](#)

In search of lost sulphur: first detection of HS2 in a dark cloud ([abstract](#))

PRESENTER: [Gisela Esplugues](#)

11:45 [Iván Gallardo Cava](#), [Javier Alcolea](#), [Hans Van Winckel](#) and [Valentín Bujarrabal](#)

Circumbinary disks and outflows in post-AGB Systems: Seeds of second-generation planet formation ([abstract](#))

PRESENTER: [Iván Gallardo Cava](#)

12:00 [Khushboo Kunwar Rao](#), [Wen-Ping Chen](#), [Hsing Yu Chen](#) and [Kristen Dage](#)

Early Spin-Down Pathways of Intermediate-Mass Stars in Young Star Forming Cluster Trumpler 14 ([abstract](#))

PRESENTER: [Khushboo Kunwar Rao](#)

12:15 [Aya Higuchi](#), [Kazuto Haraguchi](#) and [Rei Enokiya](#)

HI observations of the Galactic Center using MeerKAT ([abstract](#))

PRESENTER: [Aya Higuchi](#)

11:00-12:30 Session 11B: Parallel Session (A04)

Gravitational Wave Astronomy

LOCATION: [Theatre 1](#)

11:00 [Archana Pai](#)

Highlights of Gravitational Wave Astronomy and transient searches ([abstract](#))

11:25 [Oleg Titov](#) and [Angelina Ostetrova](#)

Search for the primordial gravitational waves with geodetic VLBI ([abstract](#))

PRESENTER: [Oleg Titov](#)

11:40 [Hongwei Ge](#)

Mass Transfer Physics in Binary Stars and Applications in Gravitational Wave Sources ([abstract](#))

11:55 [Yasufumi Kojima](#)

Evolutionary study of neutron star deformations for continuous gravitational waves ([abstract](#))

12:10 [Maryam Aghaei Abchouyeh](#), [Maurice H.P.M. van Putten](#) and [Massimo Della Valle](#)

Gravitational-Wave Constraints on the Central Engine SN 2023ixf ([abstract](#))

PRESENTER: [Maryam Aghaei Abchouyeh](#)

12:25 [Yacheng Kang](#), [Lijing Shao](#) and [Bing Zhang](#)

Multimessenger studies of white dwarf-neutron star mergers ([abstract](#))

PRESENTER: [Yacheng Kang](#)

11:00-12:30 Session 11C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

11:00 [Amruth Alfred](#), [Tom Broadhurst](#), [Keith Li](#) and [Jeremy Lim](#)

Lighting up Dark Matter with the Dragon ([abstract](#))

PRESENTER: [Amruth Alfred](#)

11:15 [Seong-Kook Lee](#)

Keeping Clusters Fresh: Cosmic Web-feeding of Galaxy Clusters up to $z \sim 1.4$
([abstract](#))

11:30 [Wissarut Jarernsupapon](#), [Krittapas Chanchaiworawit](#), [Suwicha Wannawichian](#) and
[Siramas Komonjinda](#)

Advancing Cosmological Analysis: Data Transformation and Machine Learning to Simulate the Next-Generation Space Mission's Observations ([abstract](#))

PRESENTER: [Wissarut Jarernsupapon](#)

11:45 [Sut leng Tam](#)

Simulation-based Inference of Weak-Lensing Mass Calibration for XMM-XXL galaxy clusters ([abstract](#))

12:00 [Boris Kalita](#), [Luis Ho](#) and [John Silverman](#)

Bars, spirals and clumps in Cosmic Noon galaxies ([abstract](#))

PRESENTER: [Boris Kalita](#)

12:15 [Shuang-Nan Zhang](#)

Primordial Black Hole Formation, AGN Unification and the nature of LRDs ([abstract](#))

11:00-12:30 Session 11D: Parallel Session (A01)

Astronomy Public Outreach and Education

LOCATION: [Convention Hall - A](#)

11:00 [Tejpreet Kaur](#), [Amitesh Omar](#), [Sharvari Nadkarni Ghosh](#), [Rohit Sharma](#), [Adhip Agarwala](#),
[Prashant Pathak](#), [Sandeep Kataria](#) and [Pankaj Jain](#)

Expanding Access to Astronomy Education for Underserved Children in India with the Khagolvani Initiative ([abstract](#))

PRESENTER: [Tejpreet Kaur](#)

11:15 [Safoura Tanbakouei](#)


The Research-to-Classroom (R2C) Framework: Embedding Authentic Meteorite Mineralogy Data into STEM Education Narratives ([abstract](#))

11:00-12:30 Session 11E: Parallel Meeting (SSC2)

2nd Space Debris & Sustainability Meeting

LOCATION: [Convention Hall - C](#)

12:30-14:00 || Lunch Break

14:00-15:30	Session 12A: Break
14:00-15:30	Session 12B: Break
14:00-15:30	Session 12C: Break
14:00-15:30	Session 12D: Break
14:00-15:30	Session 12E: Break
15:30-16:00	 Break
16:00-18:00	Session 13A: break
16:00-18:00	Session 13B: Break
16:00-18:00	Session 13C: break
16:00-18:00	Session 13D: Break
16:00-18:00	Session 13E: Break
19:00-22:00	Grand dinner on Cruise
Thursday, May 7th	

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

09:00-10:30	Session 14A: Parallel Session (A06)
Radio, mm and sub-mm astronomy	

LOCATION: [Convention Hall - B](#)

- 09:00 [Nagayoshi Ohashi](#)
Probing Star- and Planet-Forming Regions at Millimeter and Submillimeter Wavelengths ([abstract](#))
- 09:25 [Gisela Esplugues](#)
Redefining the limits of the chemical complexity of the Universe ([abstract](#))
- 09:40 [Jongsoo Kim](#)
Development of the Total Power GPU Spectrometer (TPGS) for the ALMA Wideband Sensitivity Upgrade ([abstract](#))
- 09:55 [Geoffrey Bower](#)

Status and Future of The James Clerk Maxwell Telescope ([abstract](#))

10:10 [Lister Staveley-Smith](#)

The Murriyang cryogenic phased array ([abstract](#))

09:00-10:30 Session 14B: Parallel Session (A03)

High Energy Astrophysics

LOCATION: [Theatre 1](#)

09:00 [Lingzhi Wang](#)

CO and Dust Formation in Supernovae ([abstract](#))

09:15 [Yixuan Shao](#), [Dongzi Li](#) and [Dylan L. Jow](#)

Polarization-Dependent Distributions of Single Pulse intensity Revealed by FAST
([abstract](#))

PRESENTER: [Yixuan Shao](#)

09:30 [Zexi Niu](#), [Ning-Chen Sun](#) and [Emmanouil Zapartas](#)

A Binary Merger Progenitor: First Compelling Evidence for a Type II-P Supernova
([abstract](#))

PRESENTER: [Zexi Niu](#)

09:45 [Yu Zhou](#), [Volodymyr Takhistov](#) and [Kazuhisa Mitsuda](#)

Unlocking Discovery Potential for Decaying Dark Matter from Segue 1 dwarf galaxy with XRISM ([abstract](#))

PRESENTER: [Yu Zhou](#)

10:00 [Ping Hei Ng](#), [Ellis Owen](#) and [Szu-Ting Chen](#)

Probing the physics of cosmic ray transport in the multi-phase interstellar medium
([abstract](#))

PRESENTER: [Ping Hei Ng](#)

10:15 [Amar Deo Chandra](#)

Exploring the outburst decay of the accreting millisecond X-ray pulsar SRGA J144459.2-604207 ([abstract](#))

09:00-10:30 Session 14C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

09:00 [Max Pettini](#)

Plenary Talk(A02)

09:40 [Maurice van Putten](#)

Parameter-Free Prediction of the Asymptotic Acceleration Scale Confirmed by Weak Lensing ([abstract](#))

09:55 [Jie Li](#)

Spin transfer between gas and dark matter during dark matter halo formation ([abstract](#))

10:10 [Kenneth Wong](#)

TDCOSMO 2025 (and beyond): Cosmological constraints from strong lensing time delays ([abstract](#))

10:25 [Alejandra Rojas-Lilayú](#)

Host Galaxy properties of hard X-ray selected AGN in the local Universe ([abstract](#))

09:00-10:30 Session 14D: Parallel Session (A07)

a08

LOCATION: [Convention Hall - A](#)

09:00 [S Kulkarni](#)

Plenary Talk(A07) ([abstract](#))

09:40 [Changbom Park](#) and [Preetish K. Mishra](#)

The Critical Mass in Galaxy Evolution ([abstract](#))

PRESENTER: [Changbom Park](#)

10:05 [David Buckley](#), [Jifeng Liu](#) and [Ningchen Sun](#)

Pushing the boundaries with GOTTA: a Global Open Telescope Array for high cadence transient observations ([abstract](#))

PRESENTER: [David Buckley](#)

10:20 [Geoffrey Mo](#), [Kevin Burdge](#), [Kaitlyn Shin](#), [Mason Ng](#) and [Danielle Frostig](#)

Exotic binaries in the core of 47 Tuc revealed by a HST UV time-domain survey ([abstract](#))

PRESENTER: [Geoffrey Mo](#)

09:00-10:30 Session 14E: Parallel Session (A05)

The life cycle of Stars and their planets

LOCATION: [Convention Hall - C](#)

09:00 [Laura Perez](#)

Plenary Talk(A05)

09:40 [Sun Kwok](#)

Planetary nebulae research: past, present, and future ([abstract](#))

10:05 [Quentin Parker](#)

The Scientific power of the HASH database for studies of late stage stellar evolution ([abstract](#))

10:20 [Andreas Ritter](#), [Ho Lam Yiu](#) and [Quentin Parker](#)

Searching for Planetary Nebulae in Open Clusters ([abstract](#))

PRESENTER: [Andreas Ritter](#)

10:30-11:00 ☕ Coffee Break & Poster Session

11:00-12:30 Session 15A: Parallel Session (A06)

Radio, mm and sub-mm astronomy

LOCATION: [Convention Hall - B](#)

11:00 [Yashwant Gupta](#)

Invited talk(A06) ([abstract](#))

11:25 [Tony Wong](#), [Alberto Bolatto](#), [Decker French](#), [Li-Hwai Lin](#), [Hsi-An Pan](#) and [Akshat Tripathi](#)

Star Formation Regulation and Quenching in the Extragalactic Database for Galaxy Evolution (EDGE) ([abstract](#))

PRESENTER: [Tony Wong](#)

11:40 [Sadhana Singh](#), [Thiem Hoang](#), [Pham Ngoc Diep](#), [Nguyen Bich Ngoc](#) and [Woojin Kwon](#)

Magnetic Fields and Grain Alignment Mechanisms in Serpens Main using JCMT/POL-2 Polarization ([abstract](#))

PRESENTER: [Sadhana Singh](#)

11:55 [Hyein Yoon](#), [Elaine Sadler](#), [Elizabeth Mahony](#) and [The Askap-Flash Team](#)

Progress from ASKAP-FLASH: Unveiling Extragalactic HI Absorption at $0.4 < z < 1.0$ ([abstract](#))

PRESENTER: [Hyein Yoon](#)

12:10 [Nikhel Gupta](#)

Unveiling the Radio Universe with Machine Learning ([abstract](#))

12:25 [Virginia Kilborn](#)

A tale of two galaxies - gas-rich and gas-poor galaxies in a nearby Galaxy group ([abstract](#))

11:00-12:30 Session 15B: Parallel Session (A03)

High Energy Astrophysics

LOCATION: [Theatre 1](#)

- 11:00 [David Ruffolo](#)
Cosmic Rays: Where They Come From and How They Get Here ([abstract](#))
- 11:25 [Annisa Novia Indra Putri](#) and [Dhani Herdiwijaya](#)
On the Correlation of Cosmic-Ray Intensity with Solar Activity and Interplanetary Parameters ([abstract](#))
PRESENTER: [Annisa Novia Indra Putri](#)
- 11:40 [Debadri Bhattacharjee](#) and [Pradip Kumar Chattopadhyay](#)
Studies on the properties of neutron stars in low mass x-ray binaries through strongly interacting quark matter phases ([abstract](#))
PRESENTER: [Debadri Bhattacharjee](#)
- 11:55 [Rahul Sharma](#)
Unraveling the Multi-Timescale Variability of the Magnetic Cataclysmic Variable ([abstract](#))
- 12:10 [Raj Kumar](#)
Double Cyclotron lines or cyclotron line emission wings in accreting Pulsar XTE J1829-098 ([abstract](#))

11:00-12:30 Session 15C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

- 11:00 [Qiaoyang Hao](#) and [Tao Wang](#)
A Cosmic Filament Catalogue for COSMOS-Web DR1 Across $0.5 < z < 3.5$ and Detection of a Characteristic "Splashback" Radius in Prominent Filaments ([abstract](#))
PRESENTER: [Qiaoyang Hao](#)
- 11:15 [Chelliah Subramonian Stalin](#) and [Rahul Verma](#)
AGN feedback in Dwarf Galaxies ([abstract](#))
PRESENTER: [Rahul Verma](#)
- 11:30 [Ziqian Hua](#)
Chandra X-ray measurement of heavy element abundances of Wolf–Rayet stars in the Galactic Centre ([abstract](#))
- 11:45 [Suraj Dhiwar](#) and [Kanak Saha](#)
Extreme UV Emitting Lyman Continuum Leakers at the Cosmic Noon ([abstract](#))
PRESENTER: [Suraj Dhiwar](#)
- 12:00 [Haixia Ma](#), [Tsutomu T. Takeuchi](#), [Suchetha Cooray](#) and [Yongda Zhu](#)

sOPTICS: a modified density-based algorithm for identifying galaxy groups/clusters and brightest cluster galaxies ([abstract](#))

PRESENTER: [Haixia Ma](#)

12:15 [Ekaterina Koptelova](#)

Detecting high-frequency quasi-periodicity from high-redshift intermediate-mass black hole candidates ([abstract](#))

11:00-12:30 Session 15D: Parallel Session (A07)

LOCATION: [Convention Hall - A](#)

11:00 [Tamara Davis](#)

Plenary Talk(A07) ([abstract](#))

11:40 [Huiqin Yang](#)

The solar-like latitudinal distribution of flaring activities revealed by TESS, APOGEE, and GALAH ([abstract](#))

11:55 [Matias Montesinos](#)

Observational Signatures of Planetary Tidal Disruption Events around Solar-Mass Stars ([abstract](#))

12:10 [Ing-Guey Jiang](#), [Li-Chin Yeh](#), [Prangsutip Cherdwongsung](#), [Eamonn Kerins](#), [Supachai Awiphan](#), [Napaporn A-Thano](#) and [Robert Wilson](#)

On the Detectability of Transiting Exomoons by Roman Space Telescope ([abstract](#))

PRESENTER: [Ing-Guey Jiang](#)

11:00-12:30 Session 15E: Parallel Session (A05)

The life cycle of Stars and their planets

LOCATION: [Convention Hall - C](#)

11:00 [Yushan Li](#), [Jiameng Lv](#) and [Quentin Parker](#)

Towards a Knowledge Graph-Enhanced Multi-Agent Identification System for Planetary Nebulae ([abstract](#))

PRESENTER: [Yushan Li](#)

11:15 [Chao Liu](#)

An ab initio stellar atmospheric model: a new try ([abstract](#))

11:30 [Raghubar Singh](#)

Li-rich giants: Li-enrichment in low mass giants: Clues for past binary interaction or merger events ([abstract](#))

11:45 [Federico Soto-Badilla](#) and [Roberto Vázquez](#)

Exploring the Relationship between Morphology, Kinematics, and Physicochemical Conditions in Bubble-like Planetary Nebulae ([abstract](#))

PRESENTER: [Federico Soto-Badilla](#)

12:00 [Facundo David Moyano](#)

Stellar rotation in late evolutionary stages: hot subdwarf B stars ([abstract](#))

12:15 [Priya Shah](#)

Star Formation in the Perseus Molecular Cloud: IC 348, NGC 1333 and Friends ([abstract](#))

12:30-14:00 || Lunch Break

14:00-15:30 Session 16A: Parallel Session (A08)

Current Larger and Upcoming Astronomical facilities

LOCATION: [Convention Hall - B](#)

14:00 [Wen-Ping Chen](#)

Bootstrapping Time-Domain Astronomy with the Trans-Pacific 2-m Telescope: Synergy with the LSST ([abstract](#))

14:25 [Kaitlyn Shin](#)

Fast radio bursts with the DSA-2000 ([abstract](#))

14:40 [Xinfeng Li](#), [Hu Zhan](#) and [Hongen Zhong](#)

Research & Development Status of CSST's Survey Camera ([abstract](#))

PRESENTER: [Xinfeng Li](#)

14:55 [Gemma Anderson](#)

Capabilities of CSIRO's Australia Telescope National Facility ([abstract](#))

14:00-15:30 Session 16B: Parallel Session (A03)

High Energy Astrophysics

LOCATION: [Theatre 1](#)

14:00 [Hyung Mok Lee](#)

Current status and future prospects of gravitational wave cosmology ([abstract](#))

14:25 [Gennady Bisnovatyi-Kogan](#) and [Maria Glushikhina](#)

Thermoelectric effects in a conductive cylinder with radial heat flow ([abstract](#))

PRESENTER: [Maria Glushikhina](#)

14:40 [Peony Ka Kiu Lai](#), [Otto Hannuksela](#), [Alvin Ka Yue Li](#) and [Elwin Ka Yau Li](#)

Investigating the Effect of Sensitivity of KAGRA on Sky Localization of Binary Neutron Star Events ([abstract](#))

PRESENTER: [Peony Ka Kiu Lai](#)

14:55 [Olga Toropina](#), [Gennadyi Bisnovatyi-Kogan](#) and [Sergey Moiseenko](#)
MHD Simulations of Rotating Jets in a Magnetic field ([abstract](#))

PRESENTER: [Olga Toropina](#)

15:10 [Ka Ho Yuen](#) and [Ka Wai Ho](#)

CRISM: Cosmic-Ray and Chemical Feedback Imprints on Polarized Galactic Foregrounds ([abstract](#))

PRESENTER: [Ka Ho Yuen](#)

14:00-15:30 Session 16C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

14:00 [Hafiz Indra Arwinata](#)

Constraining Self-Interacting Dark Matter through Galaxy Group Mass Distributions ([abstract](#))

14:15 [Soumen Bera](#)

Unveiling Winged Radio Galaxies: A Low-Frequency Perspective ([abstract](#))

14:30 [Lukas Eisert](#), [Connor Bottrell](#) and [Annalisa Pillepich](#)

Constraining the physics and assembly of galaxies from telescope images ([abstract](#))

PRESENTER: [Connor Bottrell](#)

14:45 [Masao Mori](#)

Tracing Faint and Hidden Structure Formation in Andromeda: Minor Mergers and Stream Splitting by Dark Perturbers ([abstract](#))

15:00 [Ekta Sharma](#), [Prerana Biswas](#), [Mousumi Das](#), [Benjamin Winkel](#), [Di Li](#) and [Zheng Zheng](#)

Cold Gas in the Cosmic Desert: Star formation and environment of CG 910 in Boötes Void ([abstract](#))

PRESENTER: [Ekta Sharma](#)

15:15 [Tran Thi Thai](#)

The contribution of the lensed Lyman alpha galaxies to cosmic reionization as seen by MUSE/VLT ([abstract](#))

14:00-15:30 Session 16D: Parallel Session (A07)

LOCATION: [Convention Hall - A](#)

- 14:00 [Andrew Battisti](#)
The MAGPI Survey: Emission Line Products Data Release 1 and the Role of Spectroscopic Aperture on the Balmer Decrement-Stellar Mass Relation ([abstract](#))
- 14:15 [Shiang-Yu Wang](#), [Matthew Lehner](#), [Mauricio Reyes-Ruiz](#), [Charles Alcock](#) and [Jj Kavelaars](#)
Performance of the Transneptunian Automated Occultation Survey (TAOS II) ([abstract](#))
PRESENTER: [Shiang-Yu Wang](#)
- 14:30 [I-Non Chiu](#), [Kai-Feng Chen](#) and [Masamune Oguri](#)
Weak-Lensing Shear-Selected Galaxy Clusters in the Hyper Suprime-Cam Subaru Strategic Program and its Cosmological Applications ([abstract](#))
PRESENTER: [I-Non Chiu](#)
- 14:45 [Lu Fang](#)
Beyond Lenses: Computational Optics Empowers Observational Astronomy ([abstract](#))
- 15:00 [Yen-Chen Pan](#)
Disentangling 2002es-like and 2003fg-like Supernovae through Their Host Environments ([abstract](#))
- 15:15 [Harim Jin](#)
A tale of two colors: bluer Type Ib and redder Type Ic supernovae ([abstract](#))

14:00-15:30 Session 16E: Parallel Session (A05)

The life cycle of Stars and their planets

LOCATION: [Convention Hall - C](#)

- 14:00 [Hyosun Kim](#)
Dynamical Imprints of Detached Companions in the Late Evolution of Stars ([abstract](#))
- 14:25 [Hiroshi Imai](#) and [Takeshi Hoshino](#)
Exploring the central stellar system of the "water fountain" W 43A ([abstract](#))
PRESENTER: [Hiroshi Imai](#)
- 14:40 [Bakuh Danang Setyo Budi](#), [Wako Aoki](#), [Nick Storm](#), [Miho Ishigaki](#) and [Tadafumi Matsuno](#)
Unveiling Oxygen's Past with Subaru/IRD: Oxygen Abundance of Extremely/Very Metal-Poor Stars ([abstract](#))
PRESENTER: [Bakuh Danang Setyo Budi](#)
- 14:55 [Anastasiia Topchieva](#), [Tamara Molyarova](#) and [Anton Vasyunin](#)

Deuteration of Water in Protoplanetary Disks During Luminosity Outbursts

([abstract](#))

PRESENTER: [Anastasiia Topchieva](#)

15:10 [Dmitry Chulkov](#), [Boris Safonov](#) and [Ivan Strakhov](#)

Young stellar population resolved multiplicity survey at 2.5-meter telescope of the SAI MSU observatory ([abstract](#))

PRESENTER: [Dmitry Chulkov](#)

15:30-16:00 ☕ Coffee Break & Poster Session

16:00-18:00 Session 17A: Parallel Session (A08)

Current Larger and Upcoming Astronomical facilities

LOCATION: [Convention Hall - B](#)

16:00 [Samaporn Tinyanont](#)

Transients in the Tropics: emerging infrastructure for time-domain astronomy in Thailand ([abstract](#))

16:25 [Yosuke Minowa](#), [Yusei Koyama](#), [Masayuki Akiyama](#), [Sadman Ali](#), [Takamasa Bando](#), [Joshua Carter](#), [David Chandler](#), [Chueh-Yi Chou](#), [Celine D'Orgeville](#), [Yutaka Hayano](#), [Takashi Hattori](#), [Roger Haynes](#), [Dionne Haynes](#), [Joschua Hellemeier](#), [Nicholas Herral](#), [Naoatsu Hirata](#), [Junichi Katakura](#), [Tadayuki Kodama](#), [Masahiro Konishi](#), [Kosuke Kushibiki](#), [Andrew Kruse](#), [Noelia Martinez Rey](#), [Masaki Morita](#), [Yuki Moritani](#), [Kumiko Morihana](#), [Kentaro Motohara](#), [Hajime Ogane](#), [Hirofumi Okita](#), [Yoshito Ono](#), [Shin Oya](#), [Naohisa Sato](#), [Yuhei Takagi](#), [Ichi Tanaka](#), [Yoko Tanaka](#), [Chihiro Tokoku](#), [Fumihiro Uraguchi](#), [Lu Wang](#), [Shiang-Yu Wang](#), [Po-Chieh Yu](#), [Kenshi Yanagisawa](#) and [Michitoshi Yoshida](#)

ULTIMATE-Subaru: the next-generation wide-field AO and near-infrared survey instruments for the Subaru telescope ([abstract](#))

PRESENTER: [Yosuke Minowa](#)

16:40 [Andrew Battisti](#) and [Joice Mathew](#)

Ultraviolet Extinction Sky Survey (UVES): A mission concept to study the interstellar medium in the Milky Way and Local Group galaxies ([abstract](#))

PRESENTER: [Andrew Battisti](#)

16:55 [Rhorom Priyatikanto](#), [Emanuel Sungging Mumpuni](#) and [Abdul Rachman](#)

Current Status and Operational Readiness of the Timau National Observatory ([abstract](#))

PRESENTER: [Rhorom Priyatikanto](#)

17:10 [Guohao Ju](#), [Tianyi Zhang](#), [Jing Luo](#), [Jihong Dong](#) and [Shuyan Xu](#)

Integrated Testing of the Observational Performance of the Chinese Space Station

Telescope (CSST) ([abstract](#))

PRESENTER: [Guohao Ju](#)

17:25 [Yuanyong Deng](#)

The Solar Polar-orbit Observatory Mission ([abstract](#))

17:40 [Renbin Yan](#)

Mapping the Milky Way and Nearby Galaxies with AMASE ([abstract](#))

16:00-18:00 Session 17B: Parallel Session (A03)

High Energy Astrophysics

LOCATION: [Theatre 1](#)

16:00 [Laurent Loinard](#)

Multi-epoch Event Horizon Telescope observations of M87 ([abstract](#))

16:25 [Liangduan Liu](#)

TransFit: Bridging Analytic Efficiency and Numerical Accuracy in Supernova Light-curve Modeling ([abstract](#))

16:40 [Zhongxiang Wang](#)

Possible neutrino emission from the pulsar wind nebula G63.7+1.1 ([abstract](#))

16:55 [Ho Sang Leon Chan](#), [Taeho Ryu](#), [Julian Krolik](#) and [Tsvi Piran](#)

Strongly Relativistic Tidal Disruption Event ([abstract](#))

PRESENTER: [Ho Sang Leon Chan](#)

17:10 [Ilya Kondratyev](#), [Sergey Moiseenko](#) and [Gennady Bisnovatyi-Kogan](#)

Asymmetries and MRI in magnetorotational core-collapse supernovae ([abstract](#))

PRESENTER: [Ilya Kondratyev](#)

17:25 [Ho Sang Leon Chan](#), [Ore Gottlieb](#), [Matteo Cantiello](#), [Lorenzo Sironi](#) and [Jonatan Jacquemin-Ide](#)

The Role of Magnetohydrodynamic Dynamos in Generating Large-Scale Poloidal Magnetic Fields for Launching Collapsar Jets ([abstract](#))

PRESENTER: [Ho Sang Leon Chan](#)

17:40 [Michael Yeung](#)

The view of the eROSITA bubbles from eROSITA ([abstract](#))

16:00-18:00 Session 17C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

- 16:00 [Krittapas Chanchaiworawit](#), [Wissarut Jarernsupapon](#), [Narenrit Thananusak Thananusak](#) and [Utane Sawangwit](#)
From Cosmic Dawn to the Local Universe: How Environments and Spins Shape the Evolutionary Pathways of Galaxies ([abstract](#))
PRESENTER: [Krittapas Chanchaiworawit](#)
- 16:15 [Hassen Yesuf](#) and [Connor Bottrell](#)
Observational Constraints on Galaxy, Halo, and SMBH Evolution: Discrepancies with Cosmological Simulations ([abstract](#))
PRESENTER: [Hassen Yesuf](#)
- 16:30 [Kantapon Jengangjun](#), [Suraphong Yuma](#) and [Crystal Martin](#)
Feedback efficiency of warm-ionised outflows across cosmic noon ([abstract](#))
PRESENTER: [Kantapon Jengangjun](#)
- 16:45 [Angelo George](#), [Ivana Damjanov](#) and [Marcin Sawicki](#)
Environmental Effects on the Size Growth of Quiescent Galaxies from UV-Optical Perspectives in Clusters vs. the Field ([abstract](#))
PRESENTER: [Angelo George](#)
- 17:00 [Themiya Nanayakkara](#)
Massive Galaxies at Cosmic Dawn: Linking Bursty Star Formation, Quenching, and Reionization Physics ([abstract](#))
- 17:15 [Gunmethus Cherdchoochavalit](#), [Krittapas Chanchaiworawit](#) and [Suwicha Wannawichian](#)
Machine Learning Inference for Physical Properties of Early Universe Galaxies in Upcoming JWST/NIR Cam Photometric Surveys ([abstract](#))
PRESENTER: [Gunmethus Cherdchoochavalit](#)
- 17:30 [Carla Cornil-Baiotto](#)
ALMA Imaging through a Cosmic Magnifying Glass: A Spatially Resolved Giant Molecular Cloud Study at $z \sim 2.8$ ([abstract](#))

16:00-18:00 Session 17D: Parallel Session (A07)

Astronomical Surveys & Time Domain Astronomy

LOCATION: [Convention Hall - A](#)

- 16:00 [Xiaowei Liu](#)
Exploring the local and the dynamic universe with the Mephisto ([abstract](#))
- 16:15 [Gemma Anderson](#), [James Leung](#), [Alexander van der Horst](#), [Sarah Chastain](#), [Lauren Rhodes](#) and [Ashna Gulati](#)
First results from the PanRadio GRB collaboration: radio follow-up of all Southern GRBs from <1 day to >1 year post-burst ([abstract](#))

PRESENTER: [Gemma Anderson](#)

16:00-18:00 Session 17E: Parallel Session (A05)

The life cycle of Stars and their planets

LOCATION: [Convention Hall - C](#)

16:00 [Tie Liu](#)

The ALMA-ATOMS/QUARKS survey: what we have learned about the formation and evolution of high-mass proto-clusters ([abstract](#))

16:25 [Supachai Awiphan](#), [Eamonn Kerins](#), [Napaporn A-Thano](#), [Ing-Guey Jiang](#) and [Yogesh Joshi](#)

Exoplanet Research in Thailand through Global Collaboration ([abstract](#))

PRESENTER: [Supachai Awiphan](#)

16:50 [Norhasliza Yusof](#)

How Rotation and Metallicity Shape the Final Fate of Massive Stars ([abstract](#))

17:05 [Laurence Sabin](#), [Lucero Uscanga](#) and [Guillermo Garcia-Segura](#)

Probing Magnetic Fields in Evolved Intermediate-Mass Stars: The case of W43A ([abstract](#))

PRESENTER: [Laurence Sabin](#)

17:20 [Shantanu Basu](#), [Masahiro Machida](#) and [Majd Noel](#)

Disks, Outflows, Arcs, and Cavities: the Complex Outcomes of Magnetized Gravitational Collapse ([abstract](#))

PRESENTER: [Shantanu Basu](#)

17:35 [Shridharan Baskaran](#), [Manoj Puravankara](#), [Vinod Pathak](#), [Himanshu Tyagi](#) and [Bihan Banerjee](#)

A Homogeneous JWST/MIRI Survey of Accretion, Ejection, and PAHs in Class II Protoplanetary Disks ([abstract](#))

PRESENTER: [Shridharan Baskaran](#)

17:50 [Yesol Kim](#), [Bon-Chul Koo](#) and [Jae-Joon Lee](#)

A New SNR Candidate G25.8+0.2 from the UWIFE [Fe II] Survey: Insights from Near-Infrared Spectroscopy ([abstract](#))

PRESENTER: [Yesol Kim](#)

18:30-20:00 Astronomy themed orchestral concert

Shirley Choi

LOCATION: [HKU Grand Hall](#)

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

09:00-10:30 Session 18A: Parallel Session (A08)

Current Larger and Upcoming Astronomical facilities

LOCATION: [Convention Hall - B](#)

09:00 [Wako Aoki](#), [Daisuke Iono](#), [Junichi Noumaru](#), [Shinobu Ozaki](#), [Masahiro Sugimoto](#), [Ryuji Suzuki](#), [Hiroshi Terada](#), [Tomonori Usuda](#) and [Chikako Yasui](#)

Thirty Meter Telescope (TMT) ([abstract](#))

PRESENTER: [Wako Aoki](#)

09:25 [Laurence Sabin](#), [Wen-Ping Chen](#), [Yair Krongold](#), [Yi Chou](#), [David Hiriart](#), [Erica Lugo](#), [Ming-Hsin Chang](#) and [Liliana Figueroa](#)

The Trans-Pacific Observatory: a multinational partnership for advanced optical and infrared astronomy ([abstract](#))

PRESENTER: [Laurence Sabin](#)

09:40 [Daniel Devost](#)

Four decades of excellence: Current Capabilities, Scientific Impact and Future Directions of the Canada-France-Hawaii Telescope ([abstract](#))

09:55 [Grigory Tsurikov](#), [Dmitry Bisikalo](#) and [Valery Shematovich](#)

Searching for observable atmospheric biosignatures in UV – possible input of «Spektr-UF» (WSO-UV) space telescope ([abstract](#))

PRESENTER: [Grigory Tsurikov](#)

10:10 [Shingo Kameda](#), [Go Murakami](#), [Masaki Kuwabara](#) and [Atsushi Yamazaki](#)

Conceptual design study of Far UV IFS and HRS on Habitable Worlds Observatory ([abstract](#))

PRESENTER: [Shingo Kameda](#)

10:25 [Hyun-Il Sung](#)

Remote Operation and Engineering Enhancements of the LOAO 1-m Robotic Telescope ([abstract](#))

09:00-10:30 Session 18B: Parallel Session (A03)

High Energy Astrophysics

LOCATION: [Theatre 1](#)

09:00 [Ju Guan](#), [Shumei Jia](#) and [Haisheng Zhao](#)

EP-FXT Source Search Software: Quick-Look Database Construction and Source Catalog Generation ([abstract](#))

PRESENTER: [Ju Guan](#)

09:15 [Jiang-Chuan Yu](#), [Yan Cao](#), [Zexin Hu](#) and [Lijing Shao](#)

Detecting ultralight dark matter in the Galactic Center with pulsars around Sgr A* ([abstract](#))

PRESENTER: [Jiang-Chuan Yu](#)

09:30 [Yuxuan Zeng](#)

Cluster Mergers - not AGN Feedback - Mitigates Gas Cooling and Star Formation in Cluster Central Galaxies ([abstract](#))

09:45 [Mahdi Rokni](#), [Akihko Tomita](#), [Hassan Baghbani](#) and [Farimah Mashayekhi](#)

The Sky Explorers festival by Students' International Network for Astronomy ([abstract](#))

PRESENTER: [Mahdi Rokni](#)

09:00-10:30 Session 18C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

09:00-10:30 Session 18D: Parallel Session (A07)

LOCATION: [Convention Hall - A](#)

09:00-10:30 Session 18E: Parallel Session (A05)

The life cycle of Stars and their planets

LOCATION: [Convention Hall - C](#)

09:00 [Blesson Mathew](#), [Arun Roy](#), [Shridharan Bhaskaran](#), [Nidhi Sabu](#) and [Sreeja Kartha](#)

Bridging the gap: Accretion, feedback, and disk dispersal in Intermediate-mass young stars ([abstract](#))

PRESENTER: [Blesson Mathew](#)

09:15 [Naval Kishor Bhadari](#) and [Lokesh Kumar Dewangan](#)

Catching Protoclusters in the Act of Formation with JWST and ALMA ([abstract](#))

PRESENTER: [Naval Kishor Bhadari](#)

09:30 [Pak Shing Li](#)

The Making of Dense Core in Molecular Clouds: Simulating Sub-Filament Evolution ([abstract](#))

09:45 [Petr Kurfürst](#), [Georgi Bless](#), [Filip Holoubek](#), [Michal Zajaček](#) and [Jiří Krtička](#)

Supernova interactions with aspherical circumstellar material: calculations of light curves, AB magnitudes, spectra, and polarisation ([abstract](#))

PRESENTER: [Petr Kurfürst](#)

10:00 [Tomotsugu Goto](#), [Terry Phan](#), [Issei Yamamura](#) and [Takao Nakagawa](#)

A Search for Planet Nine with IRAS and AKARI Data ([abstract](#))

PRESENTER: [Tomotsugu Goto](#)

10:30-11:00 ☕ Coffee Break & Poster Session

11:00-12:30 Session 19A: Parallel Session (A08)

Current Larger and Upcoming Astronomical facilities

LOCATION: [Convention Hall - B](#)

11:00-12:30 Session 19B: Parallel Session (A03)

High Energy Astrophysics

LOCATION: [Theatre 1](#)

11:00 [Adlyka Annuar](#), [David Alexander](#), [Poshak Gandhi](#), [Muhammad Bin Rosli](#) and [Daniel Stern](#)

The Compton-thick AGN Population and the NH Distribution of AGN in our Cosmic Backyard ([abstract](#))

PRESENTER: [Adlyka Annuar](#)

11:15 [Fidy Andriamanankasina Ramamonjisoa](#)

Modelling the Optical Polarised Non-thermal Emission of the White Dwarf Pulsar in AR Scorpii with an off-centred dipole ([abstract](#))

11:30 [Haichao Xu](#), [Xinwu Cao](#) and [Yanan Wang](#)

Evolution of accretion disc-corona in the TDE Candidate AT 2019avd ([abstract](#))

PRESENTER: [Haichao Xu](#)

11:45 [Myeong-Gu Park](#) and [Dongho Han](#)

Rotating Bondi Flow with and without Outflow ([abstract](#))

PRESENTER: [Myeong-Gu Park](#)

11:00-12:30 Session 19C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

LOCATION: [Theatre 2](#)

11:00-12:30 Session 19D: Parallel Session (A07)

LOCATION: [Convention Hall - A](#)

11:00-12:30 Session 19E: Parallel Session (A05)

The life cycle of Stars and their planets

LOCATION: [Convention Hall - C](#)

11:00 [Andres Jordan](#), [Juan Ignacio Espinoza-Retamal](#), [Rafael Brahm](#) and [Cristobal Petrovich](#)

The obliquities of warm Jupiters ([abstract](#))

PRESENTER: [Andres Jordan](#)

11:15 [Saikhom Pravash Singh](#), [Archana Soam](#), [Pham Ngoc Diep](#), [Thiem Hoang](#), [Nguyen Bich Ngoc](#) and [Le Ngoc Tram](#)

Grain alignment and disruption mechanisms in the massive star-forming filament G34.43+0.24 using thermal dust polarization observations from JCMT/POL-2 ([abstract](#))

PRESENTER: [Saikhom Pravash Singh](#)

11:30 [Woojin Kwon](#), [Youngwoo Choi](#) and [Edisk Team](#)

Early Planet Formation in Embedded Disks (eDisk): 3 mm Continuum Observations and Modeling Results ([abstract](#))

PRESENTER: [Woojin Kwon](#)

11:45 [Moo-Keon Jung](#), [Sung-Chul Yoon](#), [Ho-Gyu Lee](#), [Jae-Joon Lee](#) and [Yujin Yang](#)

Galactic Wolf-Rayet Star Survey with SPHEREx Data ([abstract](#))

PRESENTER: [Moo-Keon Jung](#)

12:00 [Patcharawee Munsaket](#), [Supachai Awiphan](#), [Poemwai Chainakun Chainakun](#), [Eamonn Kerins](#) and [Napaporn A-Thano](#)

A machine learning-based alternative method for exoplanet atmospheric retrieval ([abstract](#))

PRESENTER: [Patcharawee Munsaket](#)

12:30-14:00 || Lunch Break

14:00-15:30 Session 20A: Parallel Session (A08)

Current Larger and Upcoming Astronomical facilities

14:00-15:30 Session 20B: Parallel Session (A03)

High Energy Astrophysics

14:00-15:30 Session 20C: Parallel Session (A02)

Galaxies, AGN and the High Redshift Universe

14:00-15:30	Session 20D
14:00-15:30	Session 20E
15:30-16:00	☕ Coffee Break & Poster Session
16:00-18:00	Session 21A: Parallel Session (A08)
16:00-18:00	Session 21B: Parallel Session (A03)
16:00-18:00	Session 21C
16:00-18:00	Session 21D
16:00-18:00	Session 21E

[Disclaimer](#) | [Powered by EasyChair Smart Program](#)