

Program

Aug. 23

-14:00 Check-in

14:00-18:00 Afternoon session

Chair: Kazuhiro Kanagawa

14:00-14:10 **Yasushi Suto** *Opening*

14:10-15:10 (L) **Tanmay Vachaspati** *Primordial magnetic fields (1)*

Break (10 min)

15:20-16:20 (L) **Konstantin Batygin** *Core nucleated accretion theory of giant planet formation*

Break (10 min)

16:30-17:00 **Erik Petigura** *Formation and Erosion of Small Planet Cores and Envelopes*

17:00-17:15 **Hiroto Mitani** *Photoevaporation of Exoplanet Atmosphere*

17:15-17:30 **Shijie Wang** *Planetary migration and accretion effect on the long-term orbital stability of a multi-planetary system: case of HL Tau*

17:30-17:45 **Gianni Cataldi** *Gaseous debris disks*

17:45-18:00 **Masataka Aizawa** *Systematic study of alignment of disk orientations in nearby star-forming regions*

19:00- Dinner

Aug. 24

7:00-9:00 Breakfast

9:00-12:20 Morning session

Chair: Toyokazu Sekiguchi

9:00-10:00 (L) **Konstantin Batygin** *Angular momentum evolution of giant planets and the hot Jupiter radius inflation problem*

Break (10 min)

10:10-11:10 (L) **Tanmay Vachaspati** *Primordial magnetic fields (2)*

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Break (10 min)

11:20-11:35 **Kazuhiro Kanagawa** *Effects of dust feedback on evolutions of a protoplanetary disk and a giant planet*

11:35-11:50 **Yuta Tarumi** *R-process enrichment of Ultra-Faint Dwarf galaxies*

11:50-12:05 **Hiroaki Tahara** *Angular stability condition for static and spherically symmetric spacetime*

12:05-12:20 **Soichiro Hashiba** *Dark matter and baryon-number generation in quintessential inflation via hierarchical right-handed neutrinos*

12:20-13:35 Lunch

13:35-18:00 Afternoon session

Chair: Kipp Cannon

13:35-14:35 (L) **Konstantin Batygin** *Chaos and long-term dynamical evolution of planetary systems*

Break (10 min)

14:45-15:00 **Ayako Ishii** *Radiative Transfer Simulation for Early Emission from Binary Neutron Star Merger*

15:00-15:15 **Naoto Kuriyama** *Eruptive mass loss from progenitors of type Ibn/IIn Supernovae*

15:15-15:30 **Conor Omand** *Radio and Submillimetre Constraints on the Pulsar-Driven Supernova Model*

Break (15 min)

15:45-16:00 **Yi-Peng Wu** *Black hole mass function from peaks of primordial density perturbations*

16:00-16:15 **Takumi Hayashi** *Thermal effect of blackhole on Higgs instability*

16:15-16:30 **Heather Fong** *Searching for compact binaries using gravitational waves*

16:30-16:45 **Atsushi Nishizawa** *All-sky distribution of stellar-mass binary black-hole mergers*

Break (15 min)

17:00-18:00 (L) **Patrick Brady** *Cosmic collisions - progress and prospects for gravitational-wave astronomy (1)*

19:30- Dinner

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Aug. 25

7:00-9:00 Breakfast

9:00-12:35 Morning session

Chair: Jun'ichi Yokoyama

9:00-10:00 (L) **Tanmay Vachaspati** *Cosmic Strings*

Break (10 min)

10:10-11:10 (L) **Patrick Brady** *Cosmic collisions - progress and prospects for gravitational-wave astronomy (2)*

Break (10 min)

11:20-11:35 **Haoxiang Lin** *Off-Axis Very-High-Energy Afterglows from Binary Neutron Star Mergers*

11:35-11:50 **Soichiro Morisaki** *Prompt and accurate sky localization of gravitational-wave sources*

11:50-12:05 **Takuya Tsutsui** *Rough rapid localization of GW source*

12:05-12:20 **Junya Kume** *Application of independent component analysis to KAGRA data*

12:20-12:35 **Hiroaki Oota** *Modelling Selection Biases in Searches for Gravitational Waves from Compact Object Collisions*

12:35-19:00 Free discussion

19:00- Dinner

Aug. 26

7:00-9:00 Breakfast

9:00-12:20 Morning session

Chair: Kohei Kamada

9:00-10:00 (L) **Patrick Brady** *Cosmic collisions - progress and prospects for gravitational-wave astronomy (3)*

Break (10 min)

10:10-10:25 **Daichi Tsuna** *Emission from Galactic Isolated Black Holes and Their Detectability*

10:25-10:40 **Toshinori Hayashi** *A strategy to search for an inner binary black hole from the motion of the tertiary star*

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10:45-10:55 **Saku Iwata** *The diversity of young neutron stars determined by fallback accretion onto and energy deposition from the central object in supernova*

10:55-11:10 **Takahiro Sudoh** *TeV Mysteries : coming solutions from HAWC*

Break (15 min)

11:25-11:40 **Kana Moriwaki** *The cross-power spectrum between 21-cm and metal line emitters during early cosmic reionisation*

11:40-11:55 **Minxi He** *Rotation and Formation Threshold of Primordial Black Holes*

11:55-12:10 **Takashi Hiramatsu** *Parasitic higher winding strings in Abelian-Higgs model*

12:10-12:20 **Toshikazu Shigeyama** *Closing*

Posters

- **Yuhiko Aoyama** *Requirements to emit observable hydrogen line in planetary gas accretion*
- **Kotaro Fujisawa** *Rapidly rotating sub-stellar objects*
- **Kohei Kamada** *Affleck-Dine magnetogenesis*
- **Kazumi Kashiwama** *The optically thick rotating magnetic wind from a massive white dwarf merger product*
- **Yuting Lu** *Systematic comparison of photometric and asteroseismic rotation periods of 33 Kepler stars with transiting planets*
- **Yuta Nakagawa** *Obliquity of an earth-like planet from photometric frequency modulation: time-frequency analysis of GCM simulation data for the Earth*
- **Toyokazu Sekiguchi** *Kinetic decoupling of wino dark matter and implications for indirect detection*
- **Sho Shibata** *Impact of resonance trapping of planetesimals during planetary migration on metallicities of close-in gas giants*
- **Daisuke Takaishi** *SPH simulation of the collapse of turbulent molecular cloud cores and star-disk alignment in the protoplanetary disks*
- **Yuki Takei** *A light curve model for type II_n supernovae*
- **Yusuke Yamada** *Horndeski model in supergravity*