

Data Oriented Astronomy Program
(Invited speakers in red, posters in blue, [R] means a remote talk)

10/22 (DAY1)

12:30-12:55 Reception

12:55-13:00 Opening remarks

Chair: Shirasaki, Assistant: Fujita, Okuno

13:00-14:00 Maresuke Shiraishi "Parity in the primordial sky" [slide](#)

14:00-14:10 Break

14:10-15:10 Rhythm Shimakawa "Unraveling the Galactic Universe with Big Data from Big Network" [slide](#)

15:10-15:20 Break

Chair: Hattori, Assistant: Fujita, Shirasaki

15:20-15:40 Hiroma Okubo "The suggestion of new discoveries within the nearby galaxy NGC 1068 revealed by kernel PCA" [slide](#)

15:40-16:00 Shunya Uchida "Exploring the Interdependence of Galaxy Properties and Environment through Neural Networks" [slide](#)

16:00-16:20 Taisei Yamagata "Unveiling a Three-Dimensional Galaxy Manifold in 15-Dimensional Photometric Data Using UMAP" [slide](#)

16:20-16:30 Break

Chair: Ikeda, Assistant: Hattori, Takahashi

16:30-17:00 Fumi Yoshida [R] "A deep analysis for New Horizons' KBO search images collected by Subaru telescope" [slide1](#), [slide2](#)

10/23 (DAY2)

Chair: Shirasaki, Assistant: Ando, Hattori

10:00-11:00 Baojiu Li "Machine learning and large-scale structure formation" [slide](#)

11:00-11:10 Break

11:10-12:10 Camila Novaes "Likelihood-free inference with HSC Y1 weak lensing" [slide](#)

12:10-12:20 Group Photo

12:20-13:30 Lunch Break, Free discussion

Chair: Uemura, Assistant: Ando, Ohkubo

13:30-14:30 Hiroki Takeda [R] "Testing gravity through gravitational-waves observations of compact binary mergers" [slide](#)

14:30-15:30 Kenneth Wong [R] "A Measurement of the Hubble Constant from Lensed Quasars" [slide](#)

15:30-15:40 Break

Chair: Uemura, Assistant: Fujita, Ohkubo

15:40-16:40 Takashi Moriya "Supernova studies in the intense supernova survey era" [slide](#)

16:40-17:00 Shota Takahashi "An Extended Closure Relation by LightGBM for Neutrino Radiation Transport in Core-collapse Supernovae" [slide](#)

10/24 (DAY3)

Chair: Ikeda, Assistant: Shirasaki, Okuno

10:00-11:00 Kento Masuda "Data Analysis for Exoplanet Characterization and Population Inferences" [slide](#)

11:00-11:30 Kai Ikuta "Mapping stellar surface and exploring multiwavelength variability for a young solar-type star" [slide](#)

11:30-13:00 Lunch Break

Chair: Hattori, Assistant: Ohkubo, Takahashi

13:00-14:00 Leandro Beraldo e Silva "Galactic dynamics through entropy estimates: understanding collisionless relaxation and constraining the Milky Way potential" [slide](#)

14:00-14:30 Sung Hak Lim "Model-Independent Spherical Jeans Analysis using Equivariant Continuous Normalizing Flows" [slide](#)

14:30-15:00 Break

Chair: Ikeda, Assistant: Ando, Fujita

15:00-16:00 Toshihiro Fujii "Statistical methods for observing ultrahigh-energy cosmic rays" [slide](#)

16:00-16:10 Break

Chair: Hattori, Assistant: Ando, Fujita

16:10-17:10 Yuan-Sen Ting “Expediting Astronomical Discovery with Large Language Models: Progress, Challenges, and Future Directions” [slide](#)

17:10-17:15 Closing remarks [slide](#)

Posters

Shisuke Ideguchi “Studying the Interstellar magnetic field properties from Faraday cubes using CNN”

Shimpei Nishimoto “Infrared Bubble Recognition in the Milky Way and Beyond Using Deep Learning”

Makoto Uemura “Smart Kanata: An Autonomous Decision Making System in Rapid Follow-up Observations of Cataclysmic Variables”