The extreme Universe viewed in very-high-energy gamma rays 2023

Monday 19 February 2024 - Tuesday 20 February 2024

Scientific Programme

======== Program: * invited talks

===JST 10:00 -17:50 Monday, Feb. 19, 2024=== 10:00 - 10:25 Registration for in-person participants

10:25 - 10:30 Opening

Session 1: Large-Sized Telescopes of the Cherenkov Telescope Array(CTA) 10:30 - 11:10 (35+5)* "Status of the CTA Large-Sized Telescopes" Daniela Hadasch (ICRR, Univ. of Tokyo)

Session 2: Magnetic Fields and Very-High-Energy Gamma-Ray Emissions 11:10 - 12:00 (45+5)* [online 9:10 - 10.00pm EST] "Pulsar magnetospheres and their radiation" Alexander Philippov (Univ. of Maryland)

12:00 - 13:10 (70) Group photos + Lunch

13:10 - 13:40 (25+5) "High-energy gamma-rays from Isolated stellar-mass black hole magnetosphere"'' Koki Kin (Tohhoku Univ.)

13:40 - 14:20 (35+5)* "Intergalactic magnetic field constraints with VHE-bright GRBs" levgen Vovk (ICRR, Univ. of Tokyo)

14:20 - 14:50 (25+5) "Very Bright Gamma-Ray Burst Early Afterglow from Magnetic Bullet" Yo Kusafuka (ICRR, Univ. of Tokyo)

14:50 - 15:20 (30) Coffee Break

Session 3: High-Energy Astrophysical Observatory Network (1) 15:20 - 16:00 (35+5)* "Latest status and expectations for the recently born X-ray observatory XRISM (the X-Ray Imaging and Spectroscopy Mission) " Yukikatsu Terada (Saitama Univ.)

Session 4: PeVatrons and the Origin of Cosmic Rays 16:00 -

16:50

"The LHAASO Status and Recent Results" Zhen Cao (IHEP, CAS)

16:50 - 17:20 (25+5) "Potential PeV cosmic ray acceleration in the middle-aged pulsar-wind nebula HESS J1849-000" Sei Kato (ICRR, Univ. of Tokyo)

17:20 - 17:50 (25+5) "Development Status of Small-Sized Telescopes" Akira Okumura (ISEE, Nagoya Univ.)

18:00 - 20:00 Banquet

===JST 9:30 -16:20 Tuesday, Feb. 20, 2024== Session 5: High-Energy Astrophysical Observatory Network (2) 9:30 - 10:10 (35+5)* [online 7:30 - 8.10pm EST] "Overview and prospect of the gravitational-wave transient search in LIGO-Virgo-KAGRA's fourth observing run" Leo Tsukada (Penn State Univ.)

10:10 - 10:50 (35+5)* "IceCube recent status" Nobuhiro Shimizu (Chiba Univ.)

Session 6: Cosmic Rays and Star Formation 10:50 - 11:30 (35+5)* [online 9:50 - 10.30am CST] "Modeling the ultrahigh-energy gamma-ray bubble in the Cygnus star-forming region" Ruoyu Liu (Nanjing Univ.)

11:30 - 12:00 (25+5) "Multi-messenger Probes of the Cosmic Ray Ecocycle in and around the Milky Way" Susumu Inoue (Chiba Univ. / ICRR, Univ. of Tokyo)

12:00 -13:10 (70) Lunch

13:10 - 13:40 (25+5) "Exploring the origins of very-high-energy emission from starburst galaxy populations" Ellis R. Owen (Osaka Univ.)

13:40 - 14:10 (25+5) "Contribution to the

cosmic

y-ray

background

radiation

from star-forming galaxies" Junling Chen (Univ. of Tokyo)

14:10 - 14:40 (30) Coffee Break

Session 7: Active Galactic Nuclei (AGNs) and Transient Sources 14:40 - 15:10 (25+5) "Gamma-ray emission from AGN disk wind" Nobuyuki Sakai (Osaka Univ.)

15:10 - 15:40 (25+5) "MAGIC+LST-1 joint analysis of BL Lac 2021" Ryo Imazawa (Hiroshima Univ.)

15:40 - 16:10 (25+5) "Simulation and analysis of time-evolutional gamma-ray sources" Mitsunari Takahashi (ISEE, Nagoya Univ.□

16:10 - 16:20 Closing