

The extreme Universe viewed in very-high-energy gamma rays 2024

Tuesday 07 January 2025 - Wednesday 08 January 2025

Scientific Programme

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Program:

* invited talks

===JST 10:00 -17:40 Tuesday, Jan. 7, 2025===

10:00 - 10:25 Registration for in-person participants

10:25 - 10:30 Opening Tatsuo Yoshida (Ibaraki Univ.)

Chair1: Junko Kushida (Tokai Univ.)

Session 1: Very-High-Energy Gamma-Ray Astrophysics

10:30 - 11:10 (35+5)*

"Status of the CTAO LST project"

Daniel Mazin (ICRR, Univ. of Tokyo)

11:10 - 11:50 (35+5)*

"Recent results from the LHAASO experiment"

Songzhan Chen (IHEP, CAS)

11:50 - 13:00 (70) Lunch

Chair2: Takayuki Saito (ICRR, Univ. of Tokyo)

Session 2: Dark matter searches

13:00 - 13:50 (45+5)*

"Dark matter searches at the LHC"

Shion Chen (Kyoto Univ.)

Chair3: Kunihiro Ioka (YITP, Kyoto Univ.)

Session 3: X-Ray Emissions and Extreme Astrophysics

13:50 - 14:30 (35+5)*

"The Einstein Probe Mission and Early Results"

Hua Feng (IHEP, CAS)

14:30 - 15:10 (35+5)*

"Current status and early observational results
of X-Ray Imaging and Spectroscopy Mission (XRISM)"

Kouichi Hagino (Univ. of Tokyo)

15:10 - 15:40 (30) Group photos + Coffee Break

15:40 - 16:20 (35+5)* [online 8:40 - 9.20am EET]

"A new window to the high-energy Universe
with the Imaging X-ray Polarimetry"
Ioannis Liodakis (Institute of Astrophysics - FORTH)

Chair4: Hiroyasu Tajima (ISEE, Nagoya Univ.)

Session 4: High-z AGNs and Supermassive Black Hole Formation

16:20 - 17:00 (35+5)*

"Little red dots: A newly discovered AGN population in the JWST era"

Kohei Inayoshi(KIAA, Peking Univ.)

Session 5: Compact Objects and Extreme Astrophysics (1)

17:00 - 17:40 (35+5)*

"Neutrinos Based on Stochastic Acceleration Model
of Pulsar Wind Nebulae"

Shuta Tanaka (Aoyama Gakuin Univ.)

18:00 - 20:00 Banquet

===JST 9:30 -16:05 Wednesday, Jan. 8, 2025===

Chair5: Mitsunari Takahashi (ISEE, Nagoya Univ.)

Session 6: Compact Objects and Extreme Astrophysics (2)

9:30 - 10:00 (25+5)

"Examining the north-south symmetry of pulsars based on γ -ray phaseograms"

Kin Hang (Paul) Yeung (ICRR, Univ. of Tokyo)

10:00 - 10:30 (25+5)

"Characteristic GeV/TeV Gamma-Rays from Magnetic Bullets"

Yo Kusafuka (ICRR, Univ. of Tokyo)

Chair6: Ryuji Takeishi (ICRR, Univ. of Tokyo)

Session 7: AGN jets and Black Hole Magnetospheres

10:30 - 10:45 (10+5)

"Introduction to the MAGIC+LST proposal (tentative)"

Seiya Nozaki (ICRR, Univ. of Tokyo)

10:45 - 11:25 (35+5)*

"Theory of multi-wavelength flares from black hole magnetospheres
and strategy of joint monitoring observations of M87
with global VLBI, Swift and CTA"

Kenji

Toma

(Tohoku

Univ.)

11:25 - 12:05 (35+5)* [online]

"Synergy between high-resolution VLBI
and VHE gamma-ray observations in the study of AGN jets"
Kazuhiro Hada (Nagoya City Univ.)

12:05 -13:15 (70) Lunch

13:15 - 13:45 (25+5)

"Recent Highlights of Extragalactic Observations by LST-1"
Abhradeep Roy (Hiroshima Univ.)

Chair7: Koji Noda (ICEHAP, Chiba Univ.)

Session 8: Multimessenger Astrophysics and Cosmic-Ray Acceleration

13:45 - 14:25 (35+5)*

"Recent IceCube Results using High Energy Astrophysical Neutrinos"
Maximilian Meier (Chiba Univ.)

14:25 - 14:55 (30) Coffee Break

14:55 - 15:25 (25+5)

"Cosmological effects due to ultra-high-energy cosmic rays
and multimessenger tests "
Susumu Inoue (Chiba Univ. / ICRR, Univ. of Tokyo)

15:25 - 15:55 (25+5)

"Leptonic gamma-ray emission from star-forming galaxies"
Ievgen Vovk (ICRR, Univ. of Tokyo)

15:55 - 16:05 Closing Hidetoshi Kubo (ICRR, Univ. of Tokyo)