

The extreme Universe viewed in very-high-energy gamma rays 2025

Tuesday 03 February 2026 - Wednesday 04 February 2026

Scientific Programme

Workshop: "The extreme Universe viewed in very-high-energy gamma rays 2025"

Web site: <https://indico.icrr.u-tokyo.ac.jp/e/workshopCTAJ2025>

Date□

1st day :JST 10:00 - 17:45

Tuesday, Feb. 3, 2026

2nd day :JST 9:30 - 16:55

Wednesday, Feb. 4, 2026

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Program:

*** invited talks 35+5

** invited talks 30+5

* PhD thesis 25+5

contributed 20+5

===JST 10:00 - 17:45 Tuesday, Feb. 3, 2026===

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

10:25 - 10:30

Opening

Tatsuo Yoshida (Ibaraki Univ.)

Chair1: Katsuaki Asano (ICRR, Univ. of Tokyo)

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

10:30 - 11:05 (30+5)**

"Large-Sized Telescope array for CTAO: status and first results"

Ievgen Vovk (ICRR, Univ. of Tokyo)

11:05 - 11:45 (35+5)***

"Revealing the most extreme Galactic sources with LHAASO"

Dmitry Khangulyan (IHEP, CAS)

11:45 - 12:50 (65) Lunch

Chair2: Marcel Strzys (ICRR, Univ. of Tokyo)

Session 2: Microquasars and Particle Acceleration

12:50 - 13:25 (30+5)**

"XRISM Views of Microquasars"

Megumi Shidatsu (Ehime Univ.)

13:25 - 13:50 (20+5) [online]

"HAWC Gamma-Ray and radio observations of the microquasar V4641 Sgr"

Eduardo de la Fuente Acosta (Univ. of Guadalajara)

13:50 - 14:25 (30+5)** [online]

"Cosmic-Ray

Particle

Acceleration

by Microquasars Revealed with the Square Kilometre Array"
Haruka Sakemi (Yamaguchi Univ.)

Chair3: Seiya Nozaki (ICRR, Univ. of Tokyo)

Session 3: Very-High-Energy Gamma-Ray Astrophysics (2)

14:25 - 15:00 (30+5)**

"Sub-PeV gamma-ray observations of the northern and southern skies
by the Tibet and ALPACA experiments"

Takashi Sako (ICRR, Univ. of Tokyo)

15:00- 15:30 (30) Group photos + Coffee Break

Session 4: Contributed Talks (1)

15:30- 15:55 (20+5)

"The role of TeV-PeV cosmic rays in the Milky Way and beyond"

Susumu Inoue (Chiba Univ.)

15:55- 16:20 (20+5)

"A common four-beam geometry reveals altitude-stratified GeV pulses
in canonical young pulsars"

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

Chair4: Akira Okumura (ISEE, Nagoya Univ.)

16:20- 16:45 (20+5)

"Constrain the Disk-corona Geometry of Stellar Mass Black Hole Cyg X-1
with X-ray Spectral-polarimetric Observations"

Sixuan Zhang (Hiroshima Univ.)

16:45- 17:10 (20+5)

"High energy gamma-ray emission from globular cluster populations in galaxies"

Ellis Owen (RIKEN)

Session 5: Dark Matter (1)

17:10 - 17:45 (30+5)**

"The 20 GeV Fermi halo: Evidence for dark matter annihilation?"

Tomonori Totani (Univ. of Tokyo)

18:00 - 20:00 Banquet

===JST 9:30 - 16:55 Wednesday, Feb. 4, 2026==

Chair5: Hiroyasu Tajima (ISEE, Nagoya Univ.)

Session 6: PhD theses

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

"TeV Gamma-Ray Emission across the Galactic Center Ridge with the CTAO LST-1"

Shotaro Abe (ICRR, Univ. of Tokyo)

10:00 - 10:30 (25+5)*[online]

"AGN observations with the LST-1 and new constraints on the EBL intensity"

Joshua Ryo Baxter (Clemson Univ.)

Chair6: Mitsunari Takahashi (ISEE, Nagoya Univ.)

Session 7: Contributed Talks (2)

10:30 - 10:55 (20+5)

"ALMA Calibrator Science for CTAO:

Hidden Galactic Clouds and a Millimeter View of Gamma-ray Blazars"

Kanako Narita (Univ. of Tokyo)

10:55 - 11:20 (20+5)

"High-redshift intergalactic magnetic field lower limits"

Ievgen Vovk (ICRR, Univ. of Tokyo)

11:20- 11:45 (20+5)

"Galaxy Clusters in GeV/TeV"

Olaf Reimer (Institute for Astro- and Particle Physics, Innsbruck Univ.)

11:45 - 12:55 (70) Lunch

Chair7: Koji Noda (ICEHAP, Chiba Univ.)

Session 8: Dark Matter (2)

12:55 - 13:30 (30+5)**

"Dark Matter Direct Searches"

Kentaro Miuchi (Kobe Univ.)

13:30 - 14:05 (30+5)**

"Probing Dark Matter with the Milky Way and Its Satellite Galaxies"

Kohei Hayashi (NIT, Sendai College)

Session 9: Multimessenger Astrophysics : SKA

14:05 - 14:40 (30+5)**

"Overview of SKAO and Collaboration with CTAO"

Takuya Akahori (Mizusawa VLBI Observatory, NAOJ)

14:40 - 15:10 (30) Coffee Break

Chair8: Takayuki Saito (ICRR, Univ. of Tokyo)

15:10 - 15:45 (30+5)**

"Radio Transient Studies in the (Pre-)SKA Era and Synergies with CTA"

Yuhei Iwata (NAOJ)

Session 10: Multimessenger Astrophysics : IceCube

15:45 - 16:20 (30+5)**

"Recent IceCube Highlights and Prospects with IceCube Upgrade"

Yukiho Kobayashi (ICEHAP, Chiba Univ.)

16:20 - 16:55 (30+5)**

"Soft X-ray transients monitored by MAXI"

Wataru Iwakiri (ICEHAP, Chiba Univ.)