

Session Program

24-30 Aug 2025

The XIX International Conference on Topics in Astroparticle and Underground Physics (TAUP2025)

High-Energy Astrophysics and Cosmic Rays

Xichang Qionghai Hotel
Xichang, Sichuan, China

Monday 25 August

14:00

High-Energy Astrophysics and Cosmic Rays: parallel session 1

Session | **Location:** Conference Room F1-R2 | **Convener:** Piera Luisa Ghia

14:00–14:17

Study of Muon Evolution in very High Energy Cosmic Ray Air Showers with LHAASO

Speaker

Xiaoting Feng

14:17–14:34

Probing hadronic interactions at the 100 TeV scale with the Pierre Auger Observatory

Speaker

Eva dos Santos

14:34–14:51

High-energy photonuclear reactions and muon content of extensive air showers

Speaker

Nickolay Martynenko

14:51–15:08

Investigation of Muon Excess from Initial Hadronic Interactions in Cosmic Air Showers with a One-ton Scintillator Detector at CJPL

Speaker

昕霄 张

15:08–15:25

Seasonal Variation of Muon Flux in Daya Bay Using the Full Data Set

Speaker

Bangzheng Ma

15:25–15:42

MUTE: Calculations for Cosmic-Ray Muons in Deep Underground Laboratories

Speaker

William Woodley

15:45

16:00

High-Energy Astrophysics and Cosmic Rays: parallel session 2

Session | **Location:** Conference Room F1-R2 | **Convener:** min zha

16:00–16:25

Recent Highlights from the Telescope Array

Speaker

Eiji Kido

16:25–16:50

25 Years of the Pierre Auger Observatory: A Constantly Evolving Instrument Yielding a Rich and Varied Harvest

Speaker

Piera Luisa Ghia

16:50-17:08

Measurement of the cosmic ray Proton and Proton plus Helium spectrum with energy from tens of TeV to 1PeV**Speaker**

Suhong Chen

17:08-17:26

Origin of PeV Cosmic Rays**Speaker**

Prof. Siming Liu

17:26-17:44

Astrophysical interpretation of ultra-high-energy cosmic ray measurements at the Pierre Auger Observatory**Speaker**

Teresa Bister

17:44-18:02

AugerPrime, the upgrade of the Pierre Auger Observatory: current status and data taking**Speaker**

Rossella Caruso

18:02-18:20

Probing the Flux of Ultra-High-Energy Neutral Particles at the Pierre Auger Observatory**Speaker**

Fiona Ellwanger

18:20

Tuesday 26 August

14:00

High-Energy Astrophysics and Cosmic Rays: parallel session 3

Session | **Location:** Conference Room F1-R2 | **Convener:** Weiwei Xu

14:00–14:25

Highlights from the 10 years observations with CALET on the International Space Station

Speaker

Kazuyoshi Kobayashi

14:25–14:50

Latest results from the DAMPE space mission in more than 9 years

Speaker

Pengxiong Ma

14:50–15:05

Cosmic-Ray Nuclei Flux Measurements with the DAMPE Experiment

Speaker

Yifeng Wei

15:05–15:20

Properties of Cosmic Beryllium Isotopes: Results from the Alpha Magnetic Spectrometer

Speaker

Yao Chen

15:20–15:35

Properties of Cosmic Li Isotopes Flux

Speaker

Hai Chen

15:35–15:50

Unique Properties of Secondary Cosmic Rays: Results from the Alpha Magnetic Spectrometer

Speaker

Dr Zhaomin Wang

15:50

16:00

High-Energy Astrophysics and Cosmic Rays: parallel session 4

Session | **Location:** Conference Room F1-R2 | **Convener:** Kazuyoshi Kobayashi

16:00–16:25

Latest Results from the Alpha Magnetic Spectrometer on the International Space Station

Speaker

Vitaly Choutko

16:25–16:50

Highlights of LHAASO Cosmic Ray Energy Spectrum and Composition Measurements

Speaker

Dr 隋 马

16:50-17:10

Properties of Cosmic Deuteron Flux**Speaker**

Weiwei Xu

17:10-17:30

Unique Properties of Primary Cosmic Rays: Results from the Alpha Magnetic spectrometer**Speaker**

Qi Yan

17:30-17:50

Unique Properties of the 3rd group of cosmic rays: Results from the Alpha Magnetic Spectrometer**Speaker**

诚 张

17:50-18:10

Anisotropy of Elementary Particles with the Alpha Magnetic Spectrometer on the ISS**Speaker**

Prof. Vladimir Mikhailov

18:10-18:30

Determine the origin of cosmic rays from precise measurements of cosmic ray spectrum and mass**Speaker**

Xiaojun Bi

18:30

Wednesday 27 August

14:00

High-Energy Astrophysics and Cosmic Rays: parallel session 5

Session | **Location:** Conference Room F1-R2 | **Convener:** Zhe Li

14:00–14:20

Temporal Structures in Electron and Positron Spectra and Charge Sign Effects in Galactic Cosmic Rays

Speaker

Zetong Sun

14:20–14:40

Antiprotons and Elementary Particles over a Solar Cycle: Results from the Alpha Magnetic Spectrometer

Speaker

Senquan Lu

14:40–15:00

The Remarkable Influence of Corona Field on Solar Gamma Ray

Speaker

Chingam Fong

15:00–15:20

Expectation of measurement of Iron Spectrum at Knee region

Speaker

鄭經 哩

15:20–15:40

Constraint on Lorentz invariance violation: combined limit from a cooperation of Imaging Atmospheric Cherenkov Telescopes

Speaker

Ugo Pensic

15:40

16:00

High-Energy Astrophysics and Cosmic Rays: parallel session 6

Session | **Location:** Conference Room F1-R2 | **Convener:** Siming Liu

16:00–16:25

Recent results of the Tibet AS γ experiment

Speaker

Sei Kato

16:25–16:50

A brief overview of UHE gamma-ray astronomy

Speaker

Shaoqiang Xi

16:50–17:10

A giant ultra-high-energy gamma-ray emitting region associated with a millisecond pulsar

Speaker

Zhe Li

17:10–17:30

Observations of an UHE Source LHAASO J2027+3657 and its Potential Counterpart

Speaker

Dr Chao Hou

17:30–17:50

Measurement of diffuse gamma-ray emission based on source-deduction method at Galactic plane

Speaker

Rui Zhang

17:50–18:10

A leptonic view on the UHE Gamma-ray emission from V4641 Sgr

Speaker

Suyu Wan

18:10

Thursday 28 August

14:00

High-Energy Astrophysics and Cosmic Rays: parallel session 7

Session | **Location:** Conference Room F1-R2 | **Convener:** Silvia Crestan

14:00–14:25

Recent Scientific Results from VERITAS

Speaker

Weidong Jin

14:25–14:50

Detection of extragalactic sources and Transients from LHAASO-WCDA

Speaker

min zha

14:50–15:07

Particle acceleration beyond the synchrotron burnoff limit in gamma-ray binary systems

Speaker

Dmitriy Khangulyan

15:07–15:24

Gamma-ray detection consistent with a young stellar object

Speaker

P. H. Thomas Tam

15:24–15:41

HAWC Study of HESS J1857+026 for a Multiwavelength Study Effort

Speaker

Ramiro Torres Escobedo

15:41

16:00

High-Energy Astrophysics and Cosmic Rays: parallel session 8

Session | **Location:** Conference Room F1-R2 | **Convener:** P. H. Thomas Tam

16:00–16:25

Early Science with the First Large-Sized Telescope (LST-1)

Speaker

Daniela Hadasch

16:25–16:50

ASTRI-1: Early Data and Performance Highlights

Speaker

Silvia Crestan

16:50–17:15

Performance and Characteristics of the First LACT Telescope

Speaker

赓东 癸

17:15–17:40

Gamma-Ray and AntiMatter survey (GRAMS) experiment

Speaker

Jiancheng Zeng

17:40–18:05

The Southern Wide-field Gamma-ray Observatory

Speaker

Hao Zhou

18:05-18:25

Prototype Test of a Water Cherenkov Detector Designed Based on the SWGO Lake Concept

Speaker

屠焄 驥

18:25