Session Program

Sep 2 – 6, 2024

8th Heidelberg International Symposium on High-Energy Gamma-Ray Astronomy

Parallel 2

Università di Milano "La Statale", Aula Magna
Via Festa del Perdono 7, Milano

Mon, September 2

2:00 PM

Parallel 2

Session | **Location:** Room 431 | **Convener:** Fabrizio Tavecchio

2:00 – 2:15 PM

First broadband characterization of the TeV blazars Mrk 421 and Mrk 501 with simultaneous X-ray polarization measurements

Speaker
Lea Heckmann

2:15 – 2:30 PM

Time-dependent modelling and spectral analysis of the extraordinary outburst of Mrk421 during April 2013

Speaker
Axel Arbet-Engels

2:30 – 2:45 PM

A Multi-wavelength Study of a Long-Duration VHE flare from BL Lacertae with VERITAS

Speaker
Claire Hinrichs

2:45 – 3:00 PM

LST-1's Early Achievements in AGN Observations: Discovery of the Farthest Blazar OP 313 at VHE Gamma Rays

Speaker
Joshua Baxter

3:00 – 3:15 PM

H.E.S.S. detection and multiwavelength study of the z ~ 1 blazar PKS 0346-27

Speaker
Prof. Markus Boettcher

3:15 – 3:30 PM

H.E.S.S. observations of the unprecedented gamma-ray outburst of PKS 0903-57

Speaker
Michael Zacharias

3:30 – 3:45 PM

Blazar flares at the cosmic dawn: uncovering relativistic jets at z>4

Speaker
Andrea Gokus

3:45 – 4:00 PM

Towards a TeV blazar sequence and its physical interpretation

Speaker
Ilaria Viale

4:00 PM

4:30 PM

Parallel 2

Session | **Location:** Room 431 | **Convener:** Luigi Costamante

4:30 – 4:45 PM

Deep observations of the starburst galaxy M82 by the VERITAS gamma-ray observatory

Speaker
Martin Pohl

4:45 – 5:00 PM

Leptonic emission from star-forming galaxies

Speaker
Ievgen Vovk

5:00 – 5:15 PM

Fermi-LAT analysis of the CSO NGC4278 detected by LHAASO

Speaker
Ettore Bronzini

5:15 – 5:30 PM

Lorentz invariance violation search with the Cherenkov Telescope Array Observatory Large-Sized Telescope

Speaker
Cyann Plard

5:30 – 5:45 PM

Axion-like particle impact in high-energy astrophysics

Speaker
Giorgio Galanti

6:00 PM

Tue, September 3

2:00 PM

Parallel 2

Session | **Location:** Room 431 | **Convener:** Andreas Zech

2:00 – 2:15 PM

Mapping the blazar radiation zone with X-ray polarization and TeV gamma-ray observations

Speaker
Manel Errando

2:15 – 2:30 PM

Searching for Signatures of Internal Gamma-ray Absorption in High-redshift Blazars

Speaker
Anton Dmytriiev

2:30 – 2:45 PM

Imprint of local opacity effect in gamma ray spectrum of Blazar jets : Constraining the gamma-ray emission site - [REMOTE]

Speaker
Sushmita Agarwal

2:45 – 3:00 PM **Recent Highlights from the VERITAS AGN Discovery Program**

Speaker
Wystan Benbow

3:00 – 3:15 PM

15 Years of Fermi LAT and Multi-wavelength Observations of a Long-term Periodic Flux Modulationin the Blazar PG 1553+113 - [REMOTE]

Speaker
Sara Cutini

3:15 – 3:30 PM **Gamma ray flares of Flat Spectrum Radio Quasars: a statistical view**

Speaker
Luigi Pacciani

3:30 – 3:45 PM

Investigating Active Galactic Nuclei variability with the Cherenkov Telescope Array Observatory

Speaker
Guillaume GROLLERON

3:45 – 4:00 PM

Gamma-ray Emission from Starburst, Main Sequence, and Dead Galaxies: Contributions to Extragalactic Isotropic Backgrounds

Speaker
Ellis Owen

4:00 PM

4:30 PM

Parallel 2

Session | **Location:** Room 431 | **Convener:** Catherine Boisson

4:30 – 4:45 PM

Particle acceleration by magnetic reconnection and the production of gamma-rays in AGN relativistic jets and accretion disks

Speaker
Elisabete de Gouveia Dal Pino

4:45 – 5:00 PM

Elucidating the radio-optical offset in FR I jet with mass entrainment

Speaker
Gaëtan Fichet de Clairfontaine

5:00 – 5:15 PM

Stochastic acceleration in Extreme TeV BL Lacs

Speaker
Alberto Sciaccaluga

5:15 – 5:30 PM

Magnetospheric Current Sheets in M87*: Pair Enrichment and Ultra-High Energy Proton Acceleration

Speaker
Stamatios Ilias Stathopoulos

5:30 – 5:45 PM

Particle acceleration and high-energy emission in AGN jets: M87 and Cen A

Speaker
Jieshuang Wang

5:45 – 6:00 PM

Describing the ultra fast very-high-energy gamma-ray flare of IC 310 with relativistic reconnection models

Speaker
Jenni Jormanainen

6:00 PM

Wed, September 4

2:00 PM

Parallel 2

Session | **Location:** Room 431 | **Convener:** Antonio Stamerra

2:00 – 2:15 PM

Proton LIDAR - direct measurement of atmospheric transmission profile with Cherenkov telescopes

Speaker
Julian Sitarek

2:15 – 2:30 PM

INSPIRE: exploring MeV gamma ray sky with a small satellite

Speaker
Prof. Jun Kataoka

2:30 – 2:45 PM

Observation of Astrophysical Sources with SST-1M Telescopes - First Results

Speaker
Jakub Jurysek

2:45 – 3:00 PM

Detection prospects of extended sources with ASTRI, CTA, and LHAASO

Speakers
Giada Peron, Silvia Celli

3:00 – 3:15 PM

Preliminary results of the new ASTRI-Horn observing campaigns

Speaker
Silvia Crestan

3:15 – 3:30 PM

Development of an Imaging Atmospheric Cherenkov Telescope Array for Ultra-High Energy Gamma-ray Astronomy

Speaker
Nikolas Korzoun

3:30 – 3:45 PM

Exploring cosmic gamma rays with the novel Cherenkov plenoscope

Speaker
Dr Sebastian Achim Mueller

3:45 – 4:00 PM

Cosmology and multi-messenger astrophysics with the THESEUS space mission

Speaker
Dr Stefano Covino

4:00 PM

4:30 PM

Parallel 2

Session | **Location:** Room 431 | **Convener:** Dr Wystan Benbow

4:30 – 4:45 PM

Liquid Argon TPCs in space: The Gamma-Ray and AntiMatter Survey (GRAMS) Project

Speaker
Naomi Tsuji

4:45 – 5:00 PM

Application of compact detectors composed of oriented crystals to the observation of VHE gamma rays in space

Speaker
Pietro Monti-Guarnieri

5:00 – 5:15 PM

The Small-Sized Telescopes of CTAO: current status and future development

Speaker
Gianpiero Tagliaferri

5:15 – 5:30 PM

Learning from ASTRI-Horn: how to monitor observation quality using the Variance

Speaker
Simone Iovenitti

5:30 – 5:45 PM

Insights into Extragalactic Background Light constraints with MAGIC archival data

Speaker
Roger Grau Haro

5:45 – 6:00 PM

The Cosmological Optical Convergence: Extragalactic Background Light from TeV Gamma Rays

Speaker
Lucas Gréaux

6:00 PM

Thu, September 5

1:50 PM

Parallel 2

Session | **Location:** Room 431 | **Convener:** Annalisa Celotti

1:50 – 2:05 PM **Compton polarization signatures in gamma-ray burst models**

Speaker
Pieter Van der Merwe

2:05 – 2:20 PM **A New Insights for Early Afterglows – “Magnetic Bullet”**

Speaker
Yo Kusafuka

2:20 – 2:35 PM
A bright and narrow line at mega-electronvolt photon energies in the prompt emission of GRB 221009A

Speaker
Dr Om Sharan Salafia

2:35 – 2:50 PM
LST-1 follow-up of the exceptionally bright gamma-ray burst GRB 221009A

Speaker
Arnau Aguasca-Cabot

2:50 – 3:05 PM
Constraints on the intergalactic magnetic from Fermi-LAT observations of GRB 221009A

Speakers
Francesco Longo, Guillem Martí-Devesa

3:05 – 3:20 PM **Observation of a second spectral component in GRB 221009A**

Speaker
Biswajit Banerjee

3:20 – 3:35 PM
Prospect for detection of pair-echo emission from TeV gamma-ray bursts

Speaker
Paolo Da Vela

3:50 PM

6:00 PM

Parallel 2

Session | **Location:** Università di Milano "La Statale", Aula 431, Via Festa del Perdono 7, Milano | **Convener:** Gianpiero Tagliaferri

6:00 – 6:15 PM
Search for VHE emission from Tidal Disruption Events with the VERITAS telescopes

Speaker
Maria Kherlakian

6:15 – 6:30 PM **Ten years of Gammapy: open source tools for gamma-ray astronomy**

Speaker
Régis Terrier

6:30 – 6:45 PM

The first GRBAlpha and VZLUSAT-2 catalogue: gamma-ray transients and detector sensitivity

Speaker
Marianna Dafčíková

6:45 – 7:00 PM **The Second Fermi-LAT-low-energy catalog (2FLE)**

Speaker
Scott Joffre

7:00 PM