

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

Contribution ID: 227 Contribution code: INSTR/SW

Type: **Highlights**

## LHAASO: Progresses in $\gamma$ -ray Astronomy and CR Physics.

*Tuesday 3 September 2024 09:00 (35 minutes)*

LHAASO keeps operating with high duty cycle and providing unique observations in gamma-ray sources and diffuse charged cosmic rays. Gamma-rays from the BOAT GRB, blazars, near-by AGNs and PeVatrons in our own galaxy are well detected. Physics associated with EBL, new physics searches, radiation mechanism of various sources are discussed. Particle acceleration in the galactic sources and propagation in the Milky Way are investigated using UHE photons. Protons and mixture of protons and  $\alpha$ -particles are separated from other charge CRs for the measurements of individual spectra and their knees, while the more traditional spectrum, composition and anisotropy of all charged CR particles are measured. Future prospects of the LHAASO experiment are also presented in this talk.

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**Session Classification:** Plenary