



Contribution ID: 339

Type: **Parallel Talk**

Recent results on gamma-ray observation by the Tibet ASgamma experiment

Saturday, 9 July 2022 18:30 (15 minutes)

The Tibet ASgamma experiment is located at 4,300m above sea level, in Tibet, China. The experiment is composed of a 65,700 m² surface air shower array and 3,400 m² underground water Cherenkov muon detectors. The surface air shower array is used for reconstructing the primary particle energy and direction, while the underground muon detectors are used for discriminating gamma-ray induced muon-poor air showers from cosmic-ray (proton, helium,...) induced muon-rich air showers. Recently, the Tibet ASgamma experiment successfully observed gamma rays in the 100 TeV region from some point/extended sources as well as sub-PeV diffuse gamma rays along the Galactic disk. In this presentation, the observational results will be mainly presented, followed by some future prospect.

In-person participation

Yes

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Session Classification: Astroparticle Physics and Cosmology

Track Classification: Astroparticle Physics and Cosmology