

Recent results from the Tibet ASgamma experiment

Monday, 25 October 2021 21:30 (30 minutes)

The Tibet ASgamma experiment is located at 4,300m above sea level, at Yangbajing, 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 enable us to discriminate 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 talk, The observational results will be presented, followed by some future prospect.

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Plenary talk

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Session Classification: Plenary