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Northern sky Galactic Cosmic Ray anisotropy between 10-1000 TeV with the Tibet Air Shower Array

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We report on the observation of the large-scale sidereal anisotropy of Galactic Cosmic Rays (GCRs) between 10 TeV and 1 PeV, with the data collected by the Tibet Air Shower experiment between October 1995 and February 2010. The energy resolution is improved and the data with zenith angle up to 60 degrees is used. The two-dimensional intensity map with declination from -30 degree to 90 degree at 300 TeV is well connected with IceCube's observation at 400 TeV in 2012. A new structure on the energy dependence of the first harmonic coefficients of the large scale anisotropy is revealed above 100 TeV, which may give a new picture about the origin of GCRs.

Collaboration

- not specified -

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