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Azimuthal asymmetry in the Cherenkov radiation of EAS

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For the study of Extensive Atmospheric Showers (EAS) is essential the reconstruction method of Cherenkov radiation produced by charged secondary particles. In the recent studies it was shown that to greater accuracy of the reconstruction parameters of the EAS appears as a dependence of the spatial distribution of Cherenkov radiation as function of the azimuth angle, this due to the influence of the geomagnetic field Earth's. The calculation of this dependence, in principle, could improve the accuracy of the determination of the characteristics of the primary particles based on the Cherenkov measurements. In this work, a study is presented to find the azimuth dependence of the data Tunka's.

Collaboration

– not specified –

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