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Search for gamma-ray point sources with KASCADE

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Extensive air showers with primary energies around 300 TeV were measured with a large detector array and a muon tracking detector of KASCADE. Using all events in the full KASCADE data set, a search of a pointlike source of high-energy cosmic rays for the northern hemisphere are performed. In addition, a subset of muonless events, i.e., extensive air showers which are more similar to gamma ray induced showers, are analyzed. The equi-zenith method has been used for the background estimation. No significant excess for a pointlike source has been observed in a region around Galactic plane. In this contribution, the preliminary analysis results and an upper limit for a steady point source will be presented.

Collaboration

KASCADE-Grande

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292

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