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Upper limits on diffuse gamma-rays measured with KASCADE-Grande

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KASCADE-Grande was a multi-detector array to measure individual air showers of cosmic rays in the energy range of 10 PeV up to 1 EeV. Based on full data sets measured by KASCADE-Grande, an upper limit to the flux of ultra-high energy gamma rays in primary cosmic rays is determined. The analysis is performed by selecting air showers with low muon contents due to a small fraction of secondary hadrons in gamma ray showers with respect to hadronically induced cosmic ray showers. A preliminary result on the 90% C.L. upper limit to the relative intensity of gamma-ray induced showers with respect to all cosmic-ray primaries will be presented, and discussed with limits reported in previous measurements.

Collaboration

KASCADE-Grande

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