

Studies of cosmic ray anisotropies with DAMPE

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A small anisotropy in the arrival directions of cosmic rays has been consistently observed by ground detectors based on very large sample of events. The Dark Matter Particle explorer (DAMPE) has so far accumulated nearly 10 billion events above GeV with relatively high spatial and energy resolution, expected to be the space detector to observe the anisotropy of cosmic rays. We introduce in this poster our optimizations in the direction measurement, data sampling and anisotropy analysis. The anisotropy predicted by the east-west effect due to the Earth magnetic field and the Compton-Getting effect due to the Earth revolution are then applied to the validation of our analysis.

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