

Charge measurement of cosmic rays by Plastic Scintillator Detector of DAMPE

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Plastic Scintillator Detector (PSD) is part of DArk Matter Particle Explorer (DAMPE), which plays a crucial role of charge measurement for charged cosmic rays and acts as a veto for gamma rays. In this work, we give some updated correction methods to enhance the quality of charge measurement, especially for heavy nuclei. DAMPE has collected nearly 10 billions events by end of 2020, it has substantial potential to measure the spectra of cosmic rays nuclei up to hundreds of TeV energies, which could be benefited from these corrections for charge measurement.

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“Plastic Scintillator; Cosmic rays; Charge measurement ”

Collaboration

DAMPE

other Collaboration

Subcategory

Experimental Methods & Instrumentation

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