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Direct detection of TeV-PeV cosmic rays in space: DAMPE, HERD and connection with CRMC

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Dark Matter Particle Explorer (DAMPE) is a space-borne experiment for direct cosmic ray and gamma ray detection. Its scientific goals include measurement of cosmic ray electron, proton and nuclei spectra, and gamma ray physics. An outstanding feature of the detector is the biggest calorimeter ever launched into space which allows performing measurements of cosmic ray spectra in the TeV-PeV energy range. In this talk, we give a brief overview of the experiment and its scientific results. A particular focus is done on the Monte-Carlo simulations.

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