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The DAMPE experiment: performances and first results

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The DAMPE (DArk Matter Particle Explorer) experiment, in orbit since December 17th 2015, is a space mission whose main purpose is the detection of cosmic electrons and photons up to energies of 10 TeV, in order to identify possible evidence of Dark Matter in their spectra. Furthermore it aims to measure the fluxes and the elemental composition of the galactic cosmic rays nuclei up to 100 TeV, in order to get a better understanding of the galactic sources, acceleration mechanisms and propagation processes in the Galaxy. The DAMPE detector consists of: a double layer of Plastic Scintillator Detector; a Silicon-tungsten Tracker-converter; an electromagnetic calorimeter (composed by BGO crystals) and a Neutron Detector. We intend to present and discuss the performances of the detector and the main scientific results obtained after three years of data taking.

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