

# The Status and New Results of DAMPE Experiment

*Wednesday, 27 October 2021 21:00 (30 minutes)*

The Dark Matter Particle Explorer (DAMPE), primarily designed to directly measure high energy cosmic rays and gammas in space, was launched into 500 km orbit successfully on December 17th, 2017, and, since then, it is in continuous data taking. DAMPE consists four sub-detectors: top layers of plastic scintillators as a charged measurement detector, a 12 layers silicon strip tracker, an imaging BGO calorimeter with 32 radiation lengths, and a bottom boron-doped scintillator to detect secondary neutrons. The goal is to find dark matter signals indirectly by measuring electron and gamma spectra with up to about 10 TeV. In addition, DAMPE can also carry out cosmic ray fluxes measurement in the range from about 20 GeV to hundreds TeV. The recent measurements of the flux of electrons and positrons, protons and nuclei will be presented.

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Plenary talk

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