

The DArk Matter Particle Explorer and its latest results

Thursday, 25 October 2018 17:00 (15)

The DArk Matter Particle Explorer (DAMPE) is a high-performance space particle detector launched in orbit on 17 December 2015 by a collaboration of Chinese, Italian and Swiss scientific institutions, coordinated by the Chinese Academy of Sciences. It consists of a high-resolution segmented BGO electromagnetic calorimeter with a depth of 31 radiation lengths, a silicon-tungsten tracker-converter that reaches an angular resolution below 0.2° , an anti-coincidence shield and ion detector made of segmented plastic scintillators and a neutron detector made of boron-doped plastic scintillators. An overview of the experiment and a summary of the latest results coming from the observation of cosmic rays up to 100 TeV, of gamma-rays up to 10 TeV and of cosmic electrons up to 5 TeV will be presented.

Primary author(s) : Dr. FUSCO, Piergiorgio (Bari University and INFN)

Presenter(s) : Dr. FUSCO, Piergiorgio (Bari University and INFN)

Session Classification : Particle Physics: Astroparticle physics

Track Classification : Particle physics: neutrino physics