



Contribution ID: 15

Type: **not specified**

Anisotropy Searches with DAMPE

Monday, 7 October 2019 16:00 (30 minutes)

The Dark Matter Particle Explorer (DAMPE) is a satellite-borne experiment successfully launched in December 2015. The main scientific goal of the mission is to perform high precision measurements of the High Energy Cosmic Ray (HECR) sky looking also for Dark Matter signals. After more than three years of data taking, DAMPE has collected over 5.6 billion events.

In recent years the anisotropy of CRs results have been presented by several collaborations with the use of ground-based and space-based experiments from energies above tens of GeV up to EeV. In this work we present the sensitivity of DAMPE experiment to the anisotropy signal. We discuss the method used for anisotropy searches and present the preliminary results using the DAMPE 2016 data for all particle types at energy deposit in the calorimeter from 100 to 500 GeV. This includes studies on the different angular scales.

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