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Fluxes of electrons and positrons in 2006–2015 from the PAMELA experiment

To study aspects of solar modulation, an analysis of cosmic-ray fluxes was conducted using data from PAMELA, a satellite experiment that allows reconstructing fluxes of electrons and positrons with energies from 50 MeV and above. To obtain statistically significant robust results, different methods were applied for correct event selection including machine learning algorithms.

This work provides results on primary cosmic-ray electrons and positrons with energies above tens of MeV up to a few GeVs for 2006–2015, in a unique energy and time range for PAMELA to observe features in the fluxes related to the solar activity.

Collaboration(s)

PAMELA

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