



ID de Contribution: 51

Type: Talk

Indirect dark matter search with the PAMELA experiment

lundi 26 juillet 2010 15:00 (20 minutes)

The PAMELA apparatus was launched into space on June 15, 2006. The experiment is devoted to the precise and extensive measurements of cosmic rays in space, with particular focus on antiparticle from the cosmic radiation within an energy ranges from 100 MeV to 200 GeV. Since July 2006 measurements of antiprotons and positrons are being performed to search for exotic sources, such as a signature of annihilating dark matter particle.

This talk will present newest results of the PAMELA data analyses, with a particular emphasis on the recent measurements of antiproton, positron and electron fluxes up to an energy of 200 GeV. A possible interpretation of the recent PAMELA data in terms of secondary and primary production processes will also be discussed.

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Classification de Session: Parallel session : Indirect Searches 1

Classification de thématique: Dark Matter Indirect Searches