

The PAMELA Experiment: Seven Years of Cosmic Rays Investigation

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The seven years of data taking in space of the experiment PAMELA are showing interesting features in cosmic rays, namely in the antiparticle components that can be interpreted in terms of dark matter annihilation or pulsar contribution. Moreover, precise particle spectra measurements protons, helium nuclei, electrons, made by PAMELA are challenging our basic vision of the mechanisms of production, acceleration and propagation of cosmic rays in the galaxy. PAMELA is also searching for primordial antinuclei (anti-helium), and testing acceleration and propagation models through precision studies of light nuclei and their isotopes. This talk illustrates the most recent scientific results obtained by the PAMELA experiment.

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Session Classification: High-energy cosmic rays and their propagation