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DE GENÈVE**

FACULTÉ DES SCIENCES
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SÉMINAIRE DE PHYSIQUE CORPUSCULAIRE

SUJET : The PAMELA mission: more than six years of Cosmic Rays investigation

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RÉSUMÉ:

The PAMELA mission major scientific objective is the measurements of Cosmic Rays energy spectra, with special focus on the antiparticles, i.e. antiprotons and positrons, ones.

The PAMELA apparatus is a satellite borne magnetic spectrometer and comprises a time-of-flight system, a silicon-microstrip magnetic spectrometer, a silicon-tungsten electromagnetic calorimeter, an anticoincidence system, and shower tail catcher scintillator.

It has been more than six years that the PAMELA mission is taking data in space, on board of the russian satellite Resurs-DK.

Important results have been obtained on the positron and antiproton abundance and spectra. Moreover new results have been obtained on the composition of the charged cosmic radiation that challenge our current understanding of the mechanisms of production, acceleration and propagation of cosmic rays in the Galaxy.

In this talk we will review the most recent scientific results obtained by PAMELA and the apparatus performances during its six year mission.

INFORMATION : <http://dpnc.unige.ch/seminaire/annonce.html>

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