

IDM2008 - Identification of Dark Matter 2008

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PAMELA - an experiment searching for dark matter with cosmic antiparticles

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The PAMELA satellite experiment was launched into low earth orbit on June 15th 2006 for a 3 year mission. The combination of a permanent magnet silicon strip spectrometer, and a silicon-tungsten imaging calorimeter allows precision studies of the charged cosmic radiation to be conducted over a wide energy range (~100 MeV - ~200 GeV) with high statistics. The primary scientific goal is the measurement of antiparticle energy spectra, allowing a search for exotic sources such as dark matter particle annihilations. The status of the PAMELA experiment will be reviewed with a particular focus on results concerning antiprotons and positrons.

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