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Measurement of trapped and quasitrapped deuterons in PAMELA experiment

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The results of measurements of trapped and albedo cosmic ray deuteron fluxes obtained in the PAMELA experiment are presented in this work. The PAMELA is an international experiment aimed to measurements of cosmic ray particle fluxes in wide energy range. In particular, Analysis of PAMELA data gives possibility to identify deuterons and then to reconstruct deuteron spectra of different origin (galactic, albedo and radiation belt particles). The first results of reconstruction of trapped and albedo deuterons generation zones are presented in this work. This investigation was done by means backtracing methodics.

Collaboration

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