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Solar modulation of galactic deuterons in PAMELA experiment

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The first study results for variations of galactic deuteron spectra during 23 and beginning of 24 solar cycles are presented in this work.

The data obtained in PAMELA experiment were used in analysis. The solar modulation effect for deuteron spectra in energy range 70 –600 MeV/n is clearly seen. It is shown that galactic deuteron spectrum can be studied in frame of modulation processes as well as commonly used galactic proton and electron spectra.

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