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Time Dependence of the Cosmic Rays Positron Fraction

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The PAMELA magnetic spectrometer is continuously gathering data about cosmic ray positrons and electrons on board the Resurs DK satellite since July 2006. Below about 10 GeV cosmic rays are strongly modified by charge-sign dependent solar modulation effects.

In this work the time variation of the positron fraction as observed by the PAMELA experiment is presented. The large data set, about nine years from 2006 till 2015, covers most of the solar cycle 24.

Collaboration

– not specified –

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