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Time dependence of the helium flux measured by PAMELA

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The last solar cycle has presented a peculiarly long quiet phase with consequent minimum modulation conditions for cosmic rays. The proton and electron spectra were measured from July 2006 to December 2009 by PAMELA experiment, providing fundamental information about the transport and modulation of cosmic rays inside the heliosphere. These studies allow to obtain a more complete description of the cosmic radiation. In this picture the time dependence of the helium spectrum become very important to constrain parameters of the actual solar modulation model.

In this talk the helium spectrum measured from July 2006 to June 2014 by PAMELA experiment over six-month time intervals is presented.

Experimental Collaboration

PAMELA collaboration

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