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The north-south asymmetry change during solar magnetic field reversal measured by PAMELA.

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The north-south asymmetry of galactic cosmic rays has been measured in the PAMELA experiment during the time period 2010-2014. Inside this period the solar magnetic field has been flipped. This gave the opportunity to follow the variation of the asymmetry effect. The variation of high energy cosmic rays ratio for particles arriving from Nord and South has been measured with aid of PAMELA instrument calorimeter. The solar magnetic field polarity flip has been taking place during part of this time interval. It was obtained that the value of this ratio has changed during the same time. So the obtained result confirm the conclusion about connection of Nord-South particle flux asymmetry with solar magnetic field.

Collaboration

– not specified –

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