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Precision Measurement of Lithium Flux in Cosmic Rays with the Alpha Magnetic Spectrometer on the International Space Station

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Lithium nuclei in cosmic rays are produced by the spallation of heavier cosmic rays on the interstellar medium. Thus, the abundance of Lithium constitutes a very sensitive observable for the modeling of cosmic rays propagation in the Galaxy. A precision measurement of the Lithium flux with rigidities from 2 GV to 3 TV by AMS, based on 1.6 million events, is presented for the first time. The variation of the flux spectral index with rigidity is also presented.

Collaboration

AMS

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