



Contribution ID: 156

Type: Oral

Precision Measurement of the Monthly Cosmic Ray Fluxes with the Alpha Magnetic Spectrometer on the ISS

Wednesday, 5 September 2018 15:50 (20 minutes)

The precision measurements of the monthly cosmic ray fluxes with Alpha Magnetic Spectrometer on the International Space Station are presented. Individual electron, positron, proton and helium spectra have been measured for each Bartel's rotation period (27 days) in the time range from May 2011 to May 2017. This period covers the ascending phase of solar cycle # 24 together with the reversal of the Sun's magnetic field polarity through the minimum.

The fluxes reveal a characteristic time dependence below 20 GeV. The data show a strong charge-sign dependent effects corresponding with the polarity reversal of the solar magnetic field.

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Session Classification: CR