

Precision Measurement of Daily Helium Fluxes by the Alpha Magnetic Spectrometer

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The precision measurement of the daily helium fluxes from May 20, 2011 to October 29, 2019 with the Alpha Magnetic Spectrometer on the International Space Station, is presented. The period of observation covers half solar cycle 24 from the ascending phase through its maximum going toward its minimum. Time variation of the fluxes on different time scales associated to the solar activity, are shown. We found that the p/He flux ratio is inversely proportional to the proton flux in a similar way in daily and longer time scales. Detailed time variations of fluxes and ratio will be presented.

Keywords

Galactic cosmic rays, helium, proton over helium flux ratio, time dependent, solar modulation

Collaboration

AMS

other Collaboration

Subcategory

Experimental Results

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