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Precision Measurement of Daily Proton and Helium Fluxes by the Alpha Magnetic Spectrometer

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The precision measurement of the daily proton and helium fluxes with AMS during 13.5 years of operation will be presented. The period of observation covers solar cycle 24 from the ascending phase through its maximum going toward its minimum and solar cycle 25 through solar maximum. Detailed time variations of fluxes and ratio, including periodicities, will be presented. Remarkably, a hysteresis between the helium to proton flux ratio and the helium flux, below 2.4 GV, was observed before and after solar maximum in 2014 and solar minimum in 2020.

Collaboration(s)

AMS

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