

Precision Measurement of Periodicities in the Daily Proton Fluxes with the Alpha Magnetic Spectrometer

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The detailed measurement of the daily proton fluxes from May 20, 2011 to October 29, 2019 with the Alpha Magnetic Spectrometer on the International Space Station, is presented. We observed that the proton fluxes exhibit daily, monthly, and yearly variations. Beginning from 2015, we observed periodicities of 27, 13.5, and 9 days. The rigidity dependence of these periodicities is presented.

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