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Unique Properties of Daily Proton Fluxes up to 100 GV

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The precision measurement of daily proton fluxes with AMS during ten years of operation in the rigidity interval from 1 to 100 GV is presented. The proton fluxes exhibit variations on multiple time scales. From 2014 to 2018, we observed recurrent flux variations with a period of 27 days. Shorter periods of 9 days and 13.5 days are observed in 2016. The strength of all three periodicities changes with time and rigidity. Unexpectedly, the strength of 9-day and 13.5-day periodicities increases with increasing rigidities up to ~ 10 GV and ~ 20 GV respectively. Then the strength of the periodicities decreases with increasing rigidity up to 100 GV.

In-person participation

Yes

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