

Solar modulation modeling in light of new data from AMS

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The Alpha Magnetic Spectrometer (AMS) has performed new measurements on the temporal evolution of the proton, helium, electron, and positron fluxes in cosmic rays. These data are revealing fine details on the cosmic-ray flux evolution in connection with changing solar activity, that can bring new insights to our understanding of the so-called solar modulation effect. In this conference, I will discuss some important physical mechanisms of cosmic-ray transport in the heliosphere that can be investigated with the large collection of time-resolved and multi-channel data provided by AMS.

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