

Recent low-energy results from the Alpha Magnetic Spectrometer on the International Space Station and their interpretations

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The Alpha Magnetic Spectrometer (AMS), operating onboard the International Space Station since May 2011, has collected an impressive amount of cosmic-ray particles in space. The AMS measurements of the detailed time variation of multiple particle species in cosmic rays provides an invaluable resource for understanding heliospheric phenomena, the space radiation environment, and for improving space weather forecasting capabilities. Here I will present the recent results by AMS on cosmic-ray protons, nuclei, electrons and positrons and discuss their impact in understanding the physical mechanisms of cosmic-ray transport in the heliosphere

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