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Unique Properties of Cosmic Rays measured by the Alpha Magnetic Spectrometer

We present high-precision measurements of cosmic ray nuclei spectra spanning elements from Z=1 (protons) through Z=20 (calcium), and including Z=26 (iron) and Z=28 (nickel), as measured by the Alpha Magnetic Spectrometer. The analysis reveals new properties concerning both primary and secondary cosmic rays, with particular emphasis on their distinctive spectral structures. These findings provide significant insights into cosmic ray origin, acceleration mechanisms, and propagation through the interstellar medium.

Secondary track

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