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Antiproton Flux and Properties of Elementary Particle Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the ISS

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The fluxes and flux ratios of charged elementary particles in cosmic rays are presented in the absolute rigidity range from 1 up to 2000 GV. In the absolute rigidity range ~60 to ~500 GV, the antiproton, proton, and positron fluxes are found to have nearly identical rigidity dependence and the electron flux exhibits different rigidity dependence. Below 60 GV, the antiproton-to-proton, antiproton-to-positron, and proton-to-positron flux ratios each reaches a maximum. Particular emphasis is made on new observations of the properties of elementary particles in the rigidity range above 500 GV.

Authors: FENG, Jie (Massachusetts Inst. of Technology (US)); XU, Weiwei (Massachusetts Inst. of Technology (US)); WENG, Zhili (Massachusetts Inst. of Technology (US)); LU, Senquan (Academia Sinica (TW)); KOUNINE, Andrei (Massachusetts Inst. of Technology (US))

Presenter: WENG, Zhili (Massachusetts Inst. of Technology (US))

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