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

Thursday 5 December 2019 14:50 (15 minutes)

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. Of particular interest is the energy dependance of the positron flux, which clearly shows the existence of the new source of high energy cosmic ray positrons. 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

Author: LU, Senquan (Academia Sinica (TW))

Presenter: LU, Senquan (Academia Sinica (TW))

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