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Properties of Ar and Ca Cosmic Nuclei: Results from the Alpha Magnetic Spectrometer

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We report the latest results on the properties of Ar and Ca cosmic rays nuclei fluxes in the rigidity range 2.5 GV to 3 TV based on 0.2 million Ar and 0.3 million Ca nuclei collected by the AMS. We observe that Ar and Ca fluxes are well described by the sums of a primary cosmic ray component (Si flux) and a secondary cosmic ray component (F flux). With our measurements, the abundance ratios at the source Ar/Si and Ca/Si are determined independent of cosmic ray propagation.

Collaboration(s)

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