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Precision Measurement of the Carbon to Helium Flux Ratio in Cosmic Rays from 2 GV to 2 TV with the Alpha Magnetic Spectrometer on the International Space Station

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A precision measurement of the flux ratio of Carbon to Helium in primary cosmic rays with rigidities from 2 GV to 2 TV is presented. Precision measurement of the Carbon flux, based on 8 million events, together with the variation of the flux spectral index with rigidity is also presented.

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