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Precision measurement of the antiproton-to-proton ratio by the Alpha Magnetic Spectrometer on the International Space Station (12' + 3')

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A precision measurement, with the Alpha Magnetic Spectrometer, of the antiproton-to-proton ratio in the primary cosmic rays is presented. The measurement is made in the rigidity range from 1 to 450 GV and is based on 300,000 antiproton events. The measurement increases the precision and significantly extends the high rigidity range beyond previous observations.

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