

Antiproton Flux and Antiproton-to-Proton Flux Ratio Measured by with the Alpha Magnetic Spectrometer on the International Space Station

Monday, September 12, 2016 2:40 PM (20 minutes)

A precision measurement by AMS of the antiproton flux and the antiproton-to-proton flux ratio in primary cosmic rays in the absolute rigidity range from 1 to 450 GV is presented based on 3.49×10^5 antiproton events and 2.42×10^9 proton events. The antiproton-to-proton flux ratio reaches a maximum at ~ 20 GV and is rigidity independent above 60.3 GV.

Summary

Primary author: BACHLECHNER, Andreas (Rheinisch-Westfaelische Tech. Hoch. (DE))

Presenter: BACHLECHNER, Andreas (Rheinisch-Westfaelische Tech. Hoch. (DE))

Session Classification: Cosmic rays

Track Classification: Cosmic rays