

# Executive Summary:

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

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The AMS experiment has measured the fluxes of all charged elementary particles ( $p, \bar{p}, e^-, e^+$ ) in cosmic rays are presented in the absolute rigidity range from 1 up to 2000 GV. The detail comparisons of different fluxes are performed:

- Starting from 60 GV, antiproton-to-proton flux ratio is a constant up to 525GV.
- Positron flux shows a drop-off at around 280GeV, proton flux shows progressive hardening towards higher energy.
- Positron and antiproton spectra have similar behavior above 60 GeV.

The continuation of AMS data taking through the lifetime of ISS will provide an important confirmation of the origin of high-energy positrons and antiprotons.

