

$\bar{d}14$ 1st cosmic ray antideuteron workshop

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Recent Results from the AMS-02 experiment

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The Alpha Magnetic Spectrometer (AMS-02) is a precision large-acceptance high energy particle detector which was successfully deployed in 2011 on the International Space Station (ISS) where it will operate for the next decades. To date, the detector has collected over 50-billion cosmic ray events. Among the physics objectives of AMS are a search for the understanding of Dark Matter, Antimatter, the origin of cosmic rays and the exploration of new physics phenomena. This report overviews operations and performance of the AMS-02 detector on the ISS as well as the results based on data collected during the first three years of operations in space.

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