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## **The AMS-02 detector on the ISS - Status and highlights after 11 years on orbit**

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The Alpha Magnetic Spectrometer, AMS-02, is a magnetic spectrometer detector operating on the International Space Station (ISS) since May the 19th, 2011. More than 200 billion events have been collected by the instrument in the first 11 years of data taking, providing detailed and novel insights on the composition and energy spectra of cosmic rays up to TeV energies. This contribution reviews the most recent AMS-02 measurements and the advances in the understanding of cosmic ray origin, acceleration and propagation physics.

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