



Contribution ID: 6

Type: Oral

The AMS-02 mission after 13 years of operations on the ISS

Monday, 17 June 2024 15:20 (25 minutes)

The magnetic spectrometer detector AMS-02 has been successfully operating since May 19th, 2011 outside of the International Space Station. More than 230 billion events have been collected by the AMS-02 instrument in 13 years of data taking. The analyses of the high-precision data collected by AMS-02 have been providing novel details and new insights on the composition, spectra, and time dependencies of antimatter and matter cosmic rays up to TeV energies. In this contribution we review the status and perspectives of the AMS mission, the recent AMS-02 measurements and the achieved advances in the understanding of cosmic ray origin, acceleration and propagation physics.

Primary author: VAGELLI, Valerio (ASI & INFN-PG)

Presenter: VAGELLI, Valerio (ASI & INFN-PG)

Session Classification: Galactic and Solar Cosmic Rays

Track Classification: Galactic and Solar Cosmic Rays