

DISCRETE 2014: Fourth Symposium on Prospects in the Physics of Discrete Symmetries



Contribution ID: 108

Type: not specified

Recent Results of the AMS-02 Experiment on the ISS

Friday, 5 December 2014 14:30 (30 minutes)

AMS-02 is a general purpose cosmic ray detector operating on the International Space Station since 19 May 2011. Results based on the data collected during the first 2.5 years of the mission include high precision measurements of the proton, helium, electron and positron fluxes, and the boron to carbon ratio in the energy range from $\sim 1\text{GeV}/n$ to $\sim 1\text{TeV}/n$. The positron fraction is determined in the energy range from 0.5 to 500GeV and its energy spectrum shows an steadily increasing fraction from 10 to 200GeV with no fine structure. Individual electron and positron fluxes require a description beyond a single power-law spectrum.

Primary author: CASAUS, Jorge (Centro de Investigaciones Energ. Medioambientales y Tecn. - (ES)

Presenter: CASAUS, Jorge (Centro de Investigaciones Energ. Medioambientales y Tecn. - (ES)

Session Classification: Parallel 11: Astroparticle Physics Experiments