



Contribution ID: 231

Type: **Parallel Session talk**

Properties of Primary Cosmic Ray Protons, Helium, Carbon and Oxygen Nuclei Measured with the Alpha Magnetic Spectrometer on the ISS

Tuesday, August 6, 2019 5:30 PM (12 minutes)

Summary

We present precision high statistics measurements of primary cosmic ray protons, helium, carbon and oxygen fluxes by Alpha Magnetic Spectrometer in the rigidity range from 2 GV to 3 TV. These measurements are based on 1 billion of protons, 125 million of Helium, 14 million of Carbon and 12 million of Oxygen nuclei collected by AMS during the first 7 years of operation aboard the International Space Station. The properties of these primary cosmic rays will be discussed.

Primary authors: PHAN, Huy Duc (Massachusetts Inst. of Technology (US)); CHOUTKO, Vitaly (Massachusetts Inst. of Technology (US)); YAN, Qi (Massachusetts Inst. of Technology (US)); OLIVA, Alberto (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (Spain)); JIA, Yi (Massachusetts Inst. of Technology (US)); QIN, Xiaoting (Massachusetts Inst. of Technology (US)); Dr PANICCIA, Mercedes (Universite de Geneve (CH)); FORMATO, Valerio (Universita e INFN, Perugia (IT))

Presenter: JIA, Yi (Massachusetts Inst. of Technology (US))

Session Classification: Astroparticle, Dark Matter (Parallel)

Track Classification: Multi-Messenger Astroparticle Physics