



Contribution ID: 30

Type: Poster

## **【373】 Measuring the Beryllium Isotopic Composition in Cosmic Rays with the Alpha Magnetic Spectrometer on the International Space Station**

*Wednesday 28 August 2019 19:03 (1 minute)*

The Beryllium isotopic composition in cosmic rays provides essential information for the study of the propagation of cosmic rays in the Galaxy. The Alpha Magnetic Spectrometer (AMS) installed on the International Space Station (ISS) since May 2011 provides the opportunity to measure this composition in the energy range from  $\sim 0.2$  GeV/n to  $\sim 10$  GeV/n with unprecedented precision. For events selected with a specific nuclear charge, the particle mass is obtained combining the velocity measured by the Time of Flight (ToF) or by the Ring Imaging Cherenkov (RICH) detectors with the rigidity measured by the silicon tracker. A method to extract the relative isotopic abundances from the mass distribution will be presented.

**Primary author:** WEI, Jiahui (Universite de Geneve (CH))

**Presenter:** WEI, Jiahui (Universite de Geneve (CH))

**Session Classification:** Poster Session

**Track Classification:** Nuclear, Particle- and Astrophysics (TASK)