ICHEP 2022 BOLOGNA
ICHEP 2022 XLI International Conference on High Energy Physics Bologna (Italy)
6 13 07 2022

Contribution ID: **479** Type: **Parallel Talk**

Properties of Cosmic Beryllium Isotopes

Thursday, 7 July 2022 18:00 (15 minutes)

Beryllium nuclei are expected to be mainly produced by the fragmentation of primary cosmic rays (CR) during their propagation. Therefore, their measurement is essential in the understanding of cosmic ray propagation and sources. In particular, the ^{10}Be/^{9}Be ratio can be used as a radioactive clock providing the measurement of CR residence time in the Galaxy. In this contribution, the measurement of the ^{7}Be, ^{9}Be, and ^{10}Be fluxes and ratios based on data collected by AMS are presented.

In-person participation

Yes

Primary authors: WEI, Jiahui (Shandong Institute of Advanced Technology (SDIAT)); DE CARVALHO BARAO, Fernando (LIP - Laboratório de Instrumentação e Física Experimental de Partículas); YVES MARIE DEROME, Laurent (LPSC Laboratoire de Physique Subatomique et de Cosmologie (LPSC)); PANICCIA, Mercedes (Université de Genève)

Presenter: WEI, Jiahui (Shandong Institute of Advanced Technology (SDIAT))

Session Classification: Astroparticle Physics and Cosmology

Track Classification: Astroparticle Physics and Cosmology