

Properties of Cosmic Deuteron and ^3He

Monday, 25 July 2022 17:15 (15 minutes)

Deuterons and ^3He represent a few per cent of the cosmic-ray nuclei. They are mainly produced by fragmentation reactions of primary cosmic ^4He nuclei on the interstellar medium and represent a very sensitive tool to verify and constrain CR propagation models in the galaxy, providing additional information to that of the cosmic B/C ratio. Precision measurements of the deuteron and ^3He fluxes obtained with a high-statistics data sample collected by the AMS-02 aboard the International Space Station will be presented.

Primary authors: Dr DELGADO MENDEZ, Carlos (CIEMAT (ES)); GIOVACCHINI, Francesca (CIEMAT); Dr DIMICCOLI, Francesco (Universita degli Studi di Trento and INFN (IT)); Dr BERDUGO PEREZ, Javier (CIEMAT (ES)); Dr ZUCCON, Paolo (Università degli Studi di Trento and INFN (IT))

Presenter: GIOVACCHINI, Francesca (CIEMAT)

Session Classification: Parallel 1

Track Classification: CRD