Contribution ID: **297** Type: **Oral**

Cosmic-Ray Nuclei Flux Measurements with the DAMPE Experiment

Tuesday 26 August 2025 14:50 (15 minutes)

The DArk Matter Particle Explorer (DAMPE), which is a space-based high energy particle detector, has been operated in orbit for nearly ten years. Thanks to its large geometric factor, good charge resolution and wide dynamic range in energy measurement, DAMPE can provide valuable insights on the energy spectra of cosmic-ray up to hundreds of TeV. These measurements are fundamental to achieve a better understanding of cosmic ray origin, mechanism of acceleration and propagation in the Galaxy. In this contribution, we present a detailed analysis and the latest results from the DAMPE experiment on the flux measurements of primary cosmic-ray nuclei, including carbon, oxygen, and iron, as well as secondary cosmic-ray nuclei such as lithium, beryllium, and boron.

Collaboration you are representing

DAMPE

Author: WEI, Yifeng (University of Science and Technology of China)

Presenter: WEI, Yifeng (University of Science and Technology of China)

Session Classification: High-Energy Astrophysics and Cosmic Rays

Track Classification: High-Energy Astrophysics and Cosmic Rays