

Carbon, Oxygen and CNO combined spectra measurement with DAMPE

Carbon and Oxygen are among the most abundant intermediate species in cosmic rays, which originate from the evolution of stars and their final explosive phases at the end of their life cycles. The DArk Matter Particle Explorer (DAMPE) boasts excellent charge resolution and energy resolution for these types of cosmic rays, ranging from a few tens of GeV to hundreds of TeV. Notably, DAMPE has the largest acceptance among all operational cosmic-ray detectors in orbit. Detailed measurements and extensions up to higher energies are crucial for understanding the acceleration and propagation of galactic cosmic rays. In this talk, we will present the latest progress from our collaboration.

Primary author: MA, Pengxiong (Purple Mountain Observatory)

Presenter: MA, Pengxiong (Purple Mountain Observatory)

Track Classification: 中微子物理、粒子天体物理与宇宙学