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Galactic Cosmic Rays: latest results from the DAMPE mission

Wednesday, 14 September 2022 16:00 (20 minutes)

The space-based DAMPE (DArk Matter Particle Explorer) particle detector has been taking data for more than 6 years since its successful launch in December 2015. Its main scientific goals include the indirect search of Dark Matter signatures in the cosmic lepton spectra, the study of Galactic Cosmic Rays up to energies of hundreds of TeV and high-energy gamma ray astronomy. This talk will focus on Galactic Cosmic Rays and the measurement of their spectra, fundamental to investigate the mechanisms of acceleration at their sources and propagation through the interstellar medium. The most recent results on Proton and Helium, which revealed new spectral features, will be highlighted. Ongoing analyses regarding the cosmic ray light component, medium and heavy mass nuclei will be discussed alongside studies on the so-called secondary cosmic rays.

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