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Latest results from the DAMPE space mission

Friday, 9 September 2022 10:00 (30 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 studies on high-energy gamma ray astronomy. This talk will focus on Galactic Cosmic Rays and the measurement of their spectra, those being fundamental tools to investigate the mechanisms of acceleration at their sources and propagation through the interstellar medium. Results on proton and helium, which revealed new spectral features, will be reviewed. Ongoing analyses on the cosmic ray light component, medium and heavy mass nuclei will be discussed, together with studies of the so-called secondary cosmic rays.

Summary

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Session Classification: V Plenary Session chair Silvia Celli