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Spectral Analysis of Lithium, Beryllium and Boron Nuclides with DAMPE

The secondary nuclides lithium, beryllium, and boron in cosmic rays are primarily produced through the fragmentation of primary nuclides such as carbon and oxygen with the interstellar medium. The spectral measurements of these secondary nuclides are crucial for understanding the propagation mechanisms of cosmic rays. With the high charge resolution and large geometric factor, DAMPE (Dark Matter Particle Explorer) is expected to measure the energy spectra of these secondary cosmic-rays in a wide energy range from 10 GeV/n to a few TeV/n. In this work, we will provide the latest progress of the spectral analysis and the updated results.

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