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Measurement of the Boron to Carbon Flux Ratio in Cosmic Rays with the DAMPE Experiment

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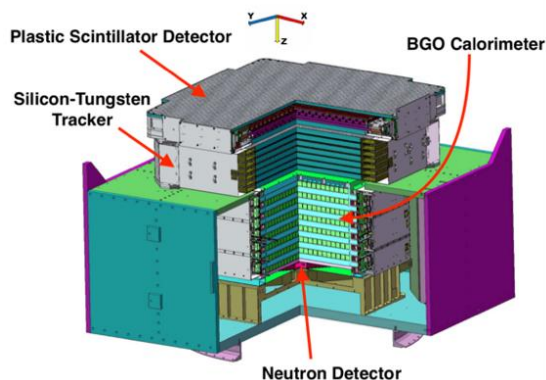
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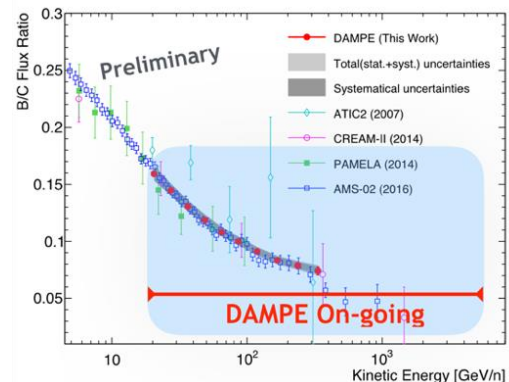
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Abstract

The DARK MATTER PARTICLE EXPLORER (DAMPE), a space-based high energy particle detector, has been operated on-orbit for more than five years. The large geometric factor and good charge resolution enable DAMPE to have very good potential to measure cosmic-rays up to 100 TeV. Knowledge of the boron to carbon (B/C) flux ratio is very important in understanding the propagation of cosmic rays, especially in TeV energy range. With a large geometric factor and a good charge resolution, DAMPE is expected to extend the measurement of the B/C flux ratio up to a few TeV/n energies. In this contribution, the latest progress of the B/C flux ratio analysis based on the flight data collected by DAMPE during the 5 years of operation, is presented.



<DAMPE Payload>



<Preliminary B/C Flux Ratio>