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The DAMPE mission

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The DAMPE experiment (DARk Matter Particle Explorer) is one of the five satellite missions in the framework of the Strategic Pioneer Research Program in Space Science of the Chinese Academy of Science (CAS). DAMPE is a powerful space telescope which has as main scientific objective the identification of possible Dark Matter signatures thanks to the capability to detect electrons and photons in a wide range of energy from 5 GeV up to 10 TeV and with unprecedented energy resolution. Moreover, the DAMPE satellite will contribute to a better understanding of the origin and propagation mechanisms of high energy cosmic rays thanks to the measurement of the flux of nuclei up to 100 TeV. Hints in the sector of high energy gamma astronomy are also expected thanks to its excellent photon detection capability.

The detector is currently undergoing the final integration and acceptance tests and being prepared for the launch scheduled in December 2015.

The status of the detector and its performance as measured with beam test will be discussed.

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Session Classification: New Technologies and Next generation of Experiments

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