



Contribution ID: 182

Type: Parallel talk

The High Energy Particle Detector of the CSES mission

Friday 12 January 2018 18:00 (20 minutes)

The CSES mission is a sophisticated multi-channel space observatory for seismic phenomena. It looks for correlation between electromagnetic perturbations, plasma density transients and charged particle flux variations. The HEPD is the CSES instrument sensitive to charged particles in the range of 30-300 MeV/nucleon (10-150 MeV for electrons). It is also an extremely precise detector to study other space weather phenomena: Van Allen belts, solar modulation, coupling of inter-planetary and geomagnetic field. The CSES launch is scheduled for February 2nd 2018 and all preliminary tests for the commissioning phase have been performed, both with calibration beams at laboratories and with atmospheric muons. The HEPD performance as estimated from these tests will be shown.

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Session Classification: Parallel Session 2

Track Classification: Future experiments