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## The HEPD apparatus for the CSES mission

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The CSES (China Seismo-Electromagnetic Satellite) mission will investigate the structure and the dynamic of the topside ionosphere, will monitor electric and magnetic field and high energy particle fluctuations, searching for their correlations with the geophysical activity, in order to contribute to the monitoring of earthquakes from space.

The High-Energy Particle Detector (HEPD) is one of the payloads of the CSES space mission, built by the Italian “Limadou” collaboration.

Results of the test beams held at the Beam Test Facility of the INFN National Laboratory of Frascati, for electrons, and at the Proton Cyclotron of Trento, for protons, will be presented. The performance of the apparatus both on the energy reconstruction and in the lepton/hadron separation will be shown.

### Experimental Collaboration

CSES-Limadou collaboration

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**Session Classification:** Detectors and data handling

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