

# Performance of the first Monolithic Active Pixel Sensor (MAPS) based space tracker on board the second China Seismo-Electromagnetic Satellite

*Thursday, 4 April 2024 16:44 (1 minute)*

The second China Seismo-Electromagnetic Satellite (CSES-02) aims to deepen our understanding of the Earth magnetosphere and explore the time correlation between variation in the electron flux in the Inner Van Allen belts and geophysical phenomena like earthquake shocks.

For this purpose, the high energy particle detector (HEPD-02) on board CSES-02 is the first space experiment to feature a MAPS-based tracker that is implemented by using ALTAI chips developed in the framework of the ALICE (A Large Ion Collider Experiment) Inner Tracking System at CERN.

In this contribution, the assembly and quality test procedure of the tracker modules will be presented as well as an overview of the whole spatialization process.

**Primary author:** PERCIBALLI, Stefania (Istituto Nazionale di Fisica Nucleare)

**Presenter:** PERCIBALLI, Stefania (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Poster