

“The High Energy Particle Detector operational status during 3 years of flight on board the China Seismo-Electromagnetic Satellite”

What is this contribution about?

This contribution aims to describe the Control & Housekeeping system of the High Energy Particle Detector (HEPD) on board the China Seismo-Electromagnetic Satellite and HEPD operational status during its 3 years of flight.

Why is it relevant / interesting?

The Control & Housekeeping system allows to handle detector activities and operations, to identify malfunctions and relative origins, thanks to the continuous monitoring of the apparatus carried out by the system, and to perform related recovery actions.

What have we done?

We have described the system main functionalities and the HEPD status and operations during 3 years of flight

What is the result?

The Control & Housekeeping system demonstrated to be a solid basis for the improved version of HEPD detector on-board CSES-02 satellite (HEPD-02)