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PCG11-P06

Room:Poster

## Verification of engineering models of medium energy particle analysers for ERG

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ERG (Exploration of energization and Radiation in Geospace) is a geospace exploration spacecraft, which is planned to be launched in FY2015. The mission goal is to understand the radiation belt dynamics especially during space storms. The key of this mission is the observations of electrons and ions in medium-energy range (10-200 keV), since these particles excite various electromagnetic waves (e.g., EMIC waves, magnetosonic waves, and whistler waves), which are believed to play significant roles in the relativistic electron acceleration and loss. Engineering models (EMs) of medium energy electron analyser and ion mass spectrometer have been developed and their performances and tolerances are tested. We report the results of these verification tests on EMs.

Keywords: Geospace exploration spacecraft ERG, medium energy ion, medium energy electron