Preflight performance of stacked silicon strip detectors for MeV electron on board the Geospace exploration satellite ``ERG''

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The Energization and Radiation in Geospace (ERG) project will explore how relativistic electrons in the radiation belts are generated during space storms. ``High energy particle (electron)'' instrument (HEP-e) on board ERG satellite will observe 70 keV - 2 MeV electron, which cover energy range of electrons to be accelerated and accelerated electrons, and play an important role to understand electron acceleration. HEP-e provide three dimensional distribution of electron every spacecraft spin period. The sensor of HEP-e is a pin-hole type camera which consist of mechanical collimator, silicon semiconductor detectors and readout ASICs. In this presentation we introduce HEP-e and report the results of performance tests of the flight model.

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