

Charged particle measurements in the radiation belts by ERG

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Radiation belts show mysterious and dynamic variability during geospace storms. The ERG spacecraft aims to observe the cross-energy coupling plasma physics behind the decay and enhancement of the radiation belts. In order to cover the broad energy range from 10 eV up to 20 MeV, ERG is equipped with 6 particle instruments (XEP, HEP, MEP-e, MEP-i, LEP-e, and LEP-i). Here we review the specifications of these sensors.