



Radiation Spectrometer

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed a Radiation Spectrometer to study the particle environment of the orbit in which the detector is placed by making in-situ measurements of the same.



Salient Features

- The instrument is capable of carrying out spectroscopy and particle identification.
- A compact instrument to study in-situ particle environment and differentiate particle species.

Major Specifications

- + E- dE technique used to carry out particle identification.
- + Thin Si wafer as dE detector.
- + Thick CsI(TI) scintillator crystal as E detector.
- + Energy Range of particles which can be measured:
 - Electrons : 0.5 10 MeV range.
 - Protons : 5 85 MeV range.
 - Alphas : 18 85 MeV range.
- + Spectroscopic capabilities up to 40000 counts per sec without pileup.
- + Can be tuned for higher count rate with minor design modifications.

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Technology Transfer

URSC-ISRO offers to transfer this technology of a Radiation Spectrometer developed by URSC to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

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