

Data contamination on the high energy particle detectors 2

Keiko T. Asai[1]; Takeshi Takashima[2]; Tatsumi Koi[3]; Tsugunobu Nagai[4]

[1] Dept. Earth&Planet. Sci., TITECH; [2] ISAS/JAXA; [3] SLAC; [4] Tokyo Institute of Technology

Natural high-energy electrons and protons (keV~MeV) in the space contaminate the data each other. In order to remove data contamination on the RDM detector onboard the Akebono satellite, the detector is investigated using a toolkit of computational particle tracing, Geant4. The results indicate that relativistic electrons of MeV behave quite complicatedly in the detector.