

E113-P023

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An APD-Using Low-Energy Electron Instrument: Current Status of the Development

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We are developing a new space-borne electron instrument of low-energy electrons for monitoring space environments. The instrument consists of an electrostatic field-of-view deflector, an electrostatic energy analyzer, and uses an APD (Avalanche Photo-Diode) as a particle detector. The detailed design has been almost finished, and the performance of the instrument is now being tested with computer simulations. A prototype model of the instrument will be tested in a few months. In the presentation, computer analysis of the performance and the current status of the instrument development will be discussed.