

あらせ衛星搭載中間エネルギーイオン分析器

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Medium-Energy Particle experiments on ERG: ion mass spectrometer (MEP-i)

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Medium-Energy Particle experiments - ion mass analyzer (MEP-i) was developed for the Energization and Radiation in Geospace (ERG) mission in order to obtain the three dimensional distribution function of inner-magnetospheric ions in the medium-energy range between 10 and 180 keV/q. Energy, mass and charge state of each ion are measured by a electrostatic energy analyzer, time-of-flight mass analyzer and solid state detectors. We will show the instrumentation of MEPi, its data products and its observation results in a magnetic storm.