

PEM021-P19

会場:コンベンションホール

時間: 5月24日17:15-18:45

Jason-2搭載宇宙環境計測装置による放射線計測

Radiation Measurement by the Light Particle Telescope for the Jason-2 Satellite

込山 立人^{1*}, 松本 晴久¹, 五家 建夫¹, 小原 隆博¹

Tatsuto Komiyama^{1*}, Haruhisa Matsumoto¹, Tateo Goka¹, Takahiro Obara¹

¹宇宙航空研究開発機構 研究開発本部

¹JAXA, ARD

On June 20, 2008, the CNES satellite, Jason-2, was launched in the Vandenberg Air Force Base, California, USA. This satellite accommodates JAXA's radiation environment monitor, which is called the Light Particle Telescope (LPT). The altitude of Jason-2 orbit is 1,336km and its inclination is 66 degree. LPT consists of four sensors which can measure electrons with energy from 25keV to 20MeV, protons from 0.3MeV to 230MeV and 4He particles from 0.8MeV/n to 80 MeV/n totally. We expect that data measured by LPT will contribute to getting a new knowledge of the radiation belt and to making a new model of the radiation belt.

We have calculated calibration factors (energy dependent geometric factors) using a Monte-Carlo simulation and results of ground tests. In addition, we planned to make properties of obtaining data clear to get sanitized data for a space radiation modeling.

In this talk, we will make a presentation on the calibration method and properties (for example, contaminations) of data measured by this instrument and introduce some obtaining data.

キーワード: Jason-2,放射線計測

Keywords: Jason-2, radiation measurement