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Development of Data Acquisition System for CALET on the ISS

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Abstract content

We have a plan to apply CALET (CALorimetric Electron Telescope) to make observations of high energy cosmic rays, electrons, gamma-rays, and nuclei, on the International Space Station (ISS). The detector of CALET consists of an imaging calorimeter (IMC) and a total absorption calorimeter (TASC). We have been developing front end circuits for the IMC and TASC. We also made a scale model (1/64) of the CALET and carried out a balloon experiment with it. We will report the data acquisition system of CALET on the ISS. Especially, the trigger system combining two parts of the detector, IMC and TASC, is considered carefully. Several trigger conditions for electrons, gamma-rays, and nuclei can be set according to their energy ranges.

If this papers is presented for a collaboration, please specify the collaboration

CALET

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 2 (OG part 1), pages 441-444

Primary author(s) : Dr. TAMURA, Tadahisa (Faculty of Engineering, Kanagawa University)

Co-author(s) : Prof. TORII, Shoji (Advanced Research Institute for Science and Engineering, Waseda University); Dr. SHIMIZU, Yuki (Advanced Research Institute for Science and Engineering, Waseda University); Prof. HIBINO, Kin'ya (Faculty of Engineering, Kanagawa University); Dr. OKUNO, Shoji (Faculty of Engineering, Kanagawa University); Prof. YOSHIDA, Kenji (Department of Electronic & Information Systems, Shibaura Institute of Technology); Mr. KITAMURA, Hisashi (National Institute of Radiological Sciences); Dr. UCHIHORI, Yukio (National Institute of Radiological Sciences); Mr. MURAKAMI, Hiroyuki (Department of Physics, Rikkyo University)

Presenter(s) : Dr. SHIMIZU, Yuki (Advanced Research Institute for Science and Engineering, Waseda University)

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