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Gamma-ray Burst Monitor for the CALET mission

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Abstract content

We propose to provide a gamma-ray burst monitor (GBM) for the CALET mission to monitor gamma-ray bursts (GRBs) simultaneously with the CALET main detector. The major purpose is to derive a wide-band energy spectrum of GRB over an unprecedented 9 decades of energy (from a few keV to 10 TeV) in combination with the CALET tower detector. Hence it is desirable to have the CALET-GBM covering an energy range from a few keV to about 20 MeV to avoid a gap in observational energy band. The design of GBM is underway to fulfill this requirement. The current detector candidate is LaBr₃(Ce) scintillator which has a superior energy resolution to that of NaI(Tl). The design and expected performance of the CALET-GBM will be presented in this paper.

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

the CALET collaboration

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. 3 (OG part 2), pages 1465-1468

Primary author(s) : Dr. YAMAOKA, Kazutaka (Aoyama Gakuin University)

Co-author(s) : Dr. TOMIDA, Hiroshi (JAXA/ISAS); Prof. TORII, Shoji (Waseda University); Prof. YOSHIDA, Atsumasa (Aoyama Gakuin University); Dr. NAKAGAWA, Yujin (Aoyama Gakuin University); Mr. SUGITA, Satoshi (Aoyama Gakuin University)

Presenter(s) : Dr. YAMAOKA, Kazutaka (Aoyama Gakuin University)

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