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The CREAM-III Calorimeter

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Abstract content

After successful recovery of the first CREAM (Cosmic Ray Energetics And Mass) instrument during the 2004/5 Antarctic campaign, the calorimeter was refurbished for the third launch, planned for December 2007. In this CREAM-III calorimeter, the optics were replaced with multi-clad fiber ribbons to enhance the light signal. New readout electronics boards reduce noise even further than the previous low-noise version. These improvements allow increased sensitivity to low energy showers. A new assembly structure has also been fabricated for ease of recovery. This refurbished calorimeter was calibrated in a CERN test beam in October 2006, and it is now being integrated with the rest of the CREAM detector suite. The construction of the calorimeter and tests of its optical and electronic components will be discussed.

If this papers is presented for a collaboration, please specify the 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. 2 (OG part 1), pages 409-412

Primary author(s) : Dr. LEE, Moo Hyun (Institute for Physical Science and Technology, University of Maryland)

Co-author(s) : AHN, H. S. (Institute for Physical Science and Technology, University of Maryland); WALPOLE, P. (Institute for Physical Science and Technology, University of Maryland); WU, J. (Institute for Physical Science and Technology, University of Maryland); YOO, J. H. (Institute for Physical Science and Technology, University of Maryland); YOON, Y. S. (Dept. of Physics and IPST, University of Maryland); ZINN, S. Y. (Institute for Physical Science and Technology, University of Maryland); GANEL, O. (Institute for Physical Science and Technology, University of Maryland); HAN, J. H. (Institute for Physical Science and Technology, University of Maryland); KIM, C. H. (Institute for Physical Science and Technology, University of Maryland); KIM, K. C. (Institute for Physical Science and Technology, University of Maryland); LUTZ, L. (Institute for Physical Science and Technology, University of Maryland); MALININ, A. (Institute for Physical Science and Technology, University of Maryland)

Maryland); SEO, E. S. (Dept. of Physics and IPST, University of Maryland); VARTANYAN, A. (Dept. of Physics, University of Maryland)

Presenter(s) : MALININ, A. (Institute for Physical Science and Technology, University of Maryland)

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