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THE COSMIC RAY ELECTRON SYNCHROTRON TELESCOPE (CREST) EXPERIMENT

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Abstract content

CREST is a balloon-borne detector array of barium fluoride crystal scintillators which will measure the intensity and spectrum of multi-TeV electrons in the Cosmic Rays. By detecting the synchrotron photons emitted from electrons passing through the earth's magnetic field, CREST's acceptance is several times its geometric area. We present background measurement results from a small array prototype flight (CREST-I) and describe the full instrument (CREST-II) which is scheduled for an Antarctic Long Duration Balloon flight in late 2009.

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

CREST 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 305-308

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