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H and He spectra from the 2004/05 CREAM-I flight

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Abstract content

The balloon-borne Cosmic Ray Energetics And Mass (CREAM) payload flew for a record-breaking 42 days during the 2004/05 Antarctic season. The instrument incorporates a tungsten/scintillating-fiber sampling calorimeter and graphite targets to measure energies of nuclei. A finely segmented Silicon Charge detector (SCD) located above the targets is used for charge measurements. The position of the primary particle in the SCD is determined by backward extrapolation of the reconstructed shower axis in the calorimeter. The flight data have been analyzed using the latest calibration of the calorimeter. The energy spectra of proton, helium and their ratios will be presented in this paper.

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

The CREAM 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 55-58

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