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Energy Spectra of Cosmic-Ray Hydrogen and Helium Isotopes during the 2000 Solar Maximum

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Abstract content

The Balloon-borne Experiment with a Superconducting Spectrometer (BESS) was flown eight times from Lynn Lake, Manitoba, Canada between 1993 and 2002. The performance of the instrument was improved with essentially each successive flight, and precise spectral measurements of cosmic-ray hydrogen and helium isotopes were made during different phases of the solar modulation. This paper presents the measured isotopic spectra for the most recent solar maximum in 2000 and compares the results to the previous measurements and theoretical predictions from the Standard Leaky Box and reacceleration models. Implications of the results 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 71-74

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