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The galactic cosmic ray intensity during the minima of solar cycles 21-24: the radial profiles and time behavior in the inner heliosphere and in the heliosheath

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Abstract content

Using the spacecraft and the stratospheric balloon cosmic ray data for 1973-2007 we construct the radial profiles of the medium energy GCR intensity for the successive solar activity minima ($A > 0$ and $A < 0$) and attempt to describe them in the simple modulation model taking into account the potential difference between the heliosphere and the infinity. Besides, using the above radial profiles we normalize the intensity to the same heliocentric radius and solar magnetic phase and then study the time behavior of the normalized time series. Some interesting effects in the relative behavior of the normalized GCR intensity in the inner versus outer heliosphere and the heliosheath are found and briefly 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. 1 (SH), pages 417-420

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