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Coronal Mass Ejections and Cosmic Ray Long Term Modulation

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Abstract content

Recently we have proposed that the long term solar modulation of galactic cosmic rays (CR) is influenced by coronal mass ejection (CME) activity. In this work, we analyze the effect of CMEs number and latitudinal changes on the CR flux during positive and negative magnetic cycles. For CME data, we use both, recent observations by the Large Angle and Spectrometric Coronagraph (LASCO) experiment on board of SOHO and past observations by Solar Maximum Mission (SMM) and Solarwind spacecrafts. For CR we use data from IMP-8 and Voyager 1/2 spacecrafts. We discuss our results in terms of the magnetic irregularities transported by CMEs in to the heliosphere.

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'Olive, 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 299-302

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