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## The GLE of December 13, 2006 according to the ground level and balloon observations

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### Abstract content

The analysis of the GLE 13.12.2006 using the data of neutron monitors, balloons, and modeling computations has been carried out. The event was connected to the flare and appeared rather unexpected, as it occurred during the ongoing phase of solar minimum. The characteristics of relativistic solar protons were derived by modeling technique from the neutron monitors data. The direct solar proton data obtained by balloons in Apatity and Mirny (Antarctica) allowed to extend the energetic spectra derived from ground based measurements from relativistic to moderate energies (hundreds MeV). The dynamics of solar proton spectra and pitch-angular distributions during the event is investigated.

**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 221-224

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