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Energy spectrum for the solar neutron event of September 7 2005, derived from the SNT at Sierra Negra.

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Abstract content

The Solar Neutron Telescope (SNT) at Mt. Sierra Negra in Mexico (19.0°N , 97.3°W) is taking data since June of 2004. A solar neutron event was registered by this SNT, associated with the flare of September 7 of 2005, at the minimum phase of solar cycle 23. In this work we calculate the energy spectrum for this solar neutron event, using the attenuation model by Dorman & Valdés-Galicia (J. Geophys. Res. 495. 1999), and the detector efficiency calculation of Valdés-Galicia (Nucl. Inst. Meth., A535, 656, 2004).

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 57-60

Primary author(s) : Dr. GONZÁLEZ, Luis Xavier (Instituto de Geofísica, UNAM. México.)

Co-author(s) : Dr. VALDÉS-GALICIA, José Francisco (Instituto de Geofísica, UNAM. México.); Dr. MURAKI, Y. (Solar-Terrestrial Environment Laboratory, Nagoya University, Japan.); Dr. SAKO, T. (Solar-Terrestrial Environment Laboratory, Nagoya University, Japan.); Dr. WATANABE, K. (Space Sciences Laboratory University of California, Berkeley, US.); Dr. MATSUBARA, Y. (Solar-Terrestrial Environment Laboratory, Nagoya University, Japan.); Dr. SHIBATA, S (College of Engineering, Chubu University, Japan.); Dr. SAKAI, T. (College of Industrial Technologies, Nihon University, Japan.); Dr. TSUJIHARA, H. (Solar-Terrestrial Environment Laboratory, Nagoya University, Japan.)

Presenter(s) : Dr. GONZÁLEZ, Luis Xavier (Instituto de Geofísica, UNAM. México.)

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