



Contribution ID : **912**

Type : **Oral**

Emission profile of solar neutrons obtained from the ground-based observations for the 7 September 2005 event

Wednesday, 4 July 2007 09:30 (0:12)

Abstract content

Strong signals of energetic neutrons associated with the solar flare of 7 September 2005 were detected by using the Solar Neutron Telescopes located at Mt. Chacaltaya in Bolivia and Mt. Sierra Negra in Mexico, Neutron Monitors located at Mt. Chacartaya and Mexico City. The observed profiles indicate a continuous emission of neutrons. In this paper, we present the results of combined analysis of the SNT and NM data to obtain emission profile and spectrum of the neutrons. Especially the SNT data of the different energy threshold gives an unprecedented capability of the analysis. We also discuss an association with the electromagnetic radiations and neutron emission models.

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 53-56

Primary author(s) : Dr. SAKO, Takashi (Solar-Terrestrial Environment Laboratory, Nagoya University)

Co-author(s) : Dr. WATANABE, Kyoko (Space Sciences Laboratory, University of California, Berkeley); Prof. VALDÉS-GALICIA, José F (Instituto de Geofísica, Universidad Nacional Autónoma de México); Mr. GONZALEZ, Luis X (Instituto de Geofísica, Universidad Nacional Autónoma de México); Mr. HURTADO, Alejandro (Instituto de Geofísica, Universidad Nacional Autónoma de México); Mr. MUSALEM, Octavio (Instituto de Geofísica, Universidad Nacional Autónoma de México); Prof. MIRANDA, Pedro P (Instituto de Investigaciones Fisicas, Universidad Mayor de San Andrés); Prof. MARTINIC, Nicolas (Instituto de Investigaciones Fisicas, Universidad Mayor de San Andrés); Prof. TICONA, Rolando (Instituto de Investigaciones Fisicas, Universidad Mayor de San Andrés); Prof. VELARDE, Alfonso (Instituto de Investigaciones Fisicas, Universidad Mayor de San Andrés); Prof. MURAKI, Yasushi (Solar-Terrestrial Environment Laboratory, Nagoya University); Prof. MATSUBARA, Yutaka (Solar-Terrestrial Environment

Laboratory, Nagoya University); Prof. SAKAI, Takasuke (College of Industrial Technologies, Nihon University); Prof. SHIBATA, Shoichi (College of Engineering, Chubu University); Prof. KAKIMOTO, Fumio (Department of Physics, Tokyo Institute of Technology); Dr. TSUNESADA, Yoshiki (Department of Physics, Tokyo Institute of Technology); Dr. TOKUNO, Hisao (Institute for Cosmic Ray Research, University of Tokyo); Prof. OGIO, Shoichi (Graduate School of Science, Osaka City University)

Presenter(s) : Dr. SAKO, Takashi (Solar-Terrestrial Environment Laboratory, Nagoya University)

Session Classification : SH 1.2, SH 1.3

Track Classification : SH.1.3