30th International Cosmic Ray Conference

Contribution ID : **340** Type : **Poster**

Method and results of the analysis of data on vertical rigidities of cosmic rays cutoff in the geomagnetic field.

Friday, 6 July 2007 14:45 (0:00)

Abstract content

The method of the analysis of data on vertical rigidities of cosmic rays cutoff is described. The essence of the method consists in the fact, that both the experimental data and the calculation results are described in the form of change of their value relative to the values related to IGRF. The value of these relative changes quite certainly depends on the rigidity itself and on the level of geomagnetic field disturbance (the Kp-index). Systematic distinctions between the experimental data and the results of calculations by Tsyganenko-89's magnetosphere model in the region of low rigidities (R $<$ 0.5 GV) are revealed.

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 701-704

Primary author(s) : Dr. YUSHKOV, Boris Yu. (Scobeltsyn Institute of Nuclear Physics, Lomonosov Moscow State University)

Co-author(s) : Dr. GALKIN, V.I. (Skobeltsyn Institute of Nuclear Physics, Lomonosov Moscow State University, Moscow, 119992, Russia); Dr. NYMMIK, R.A. (Skobeltsyn Institute of Nuclear Physics, Lomonosov Moscow State University, Moscow, 119992, Russia); Prof. PANASYUK, M.I. (Skobeltsyn Institute of Nuclear Physics, Lomonosov Moscow State University, Moscow, 119992, Russia); Mr. PETRUKHIN, V.V. (Skobeltsyn Institute of Nuclear Physics, Lomonosov Moscow State University, Moscow, 119992, Russia)

Presenter(s) : Dr. YUSHKOV, Boris Yu. (Scobeltsyn Institute of Nuclear Physics, Lomonosov Moscow State University)

Session Classification : Posters 2 + Coffee

Track Classification : SH.3.6