



Contribution ID : 177

Type : **Poster**

Real-time database for high resolution Neutron Monitor measurements

Wednesday, 4 July 2007 14:45 (0:00)

Abstract content

The Kiel Neutron Monitor has been measuring Cosmic Ray intensities for 50 years. Since an upgrade of the counting electronics in the mid 1990's in collaboration with the IZMIRAN group, measurements have been available with one minute resolution. However, these measurements are available only up to one hour after the measurement. We have now set up a second registration system that is running in parallel to the existing registration system. The new system is registering count rates with 10 second resolution and sends the data to an SQL database immediately after the measurement, from where the measurements are made available via a webpage or by direct access to the database. The real-time availability of Cosmic Ray intensities significantly improves the capability to predict Space Weather events that effect humans and infrastructure in space and the earth.

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 303-306

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Session Classification : Posters 1 + Coffee

Track Classification : SH.2.1