



## **The Neutron Monitor database as a tool for space weather, education, and public outreach**

Christian T. Steigies (1), Karl-Ludwig Klein (2), and Rolf Bütikofer (3)

(1) Christian-Albrechts-Universität zu Kiel, Institut für Experimentelle und Angewandte Physik, Kiel, Germany (steigies@physik.uni-kiel.de), (2) l'observatoire de Paris, Meudon, France, (3) University of Bern, Bern, Switzerland

The Neutron Monitor database (NMDB) was created to make measurements from ground-based Neutron Monitors easily accessible. Data from more than 40 stations is available in the database and can be plotted via a webpage and downloaded as ASCII tables for further processing. Real-time applications, like the GLE Alert, can access the database directly. The NMDB project has also hosted training sessions and created extensive public outreach and training material that has been translated into 11 languages. This material is openly available on the NMDB website and is frequently used in highschool and university courses. While the availability of data from currently operating stations is nearing completion, the availability of historical data, especially no longer operating stations, is still limited. We are currently trying to fill these gaps. As a first step a project to make NMDB compatible with the database of relativistic solar particle events (GLEs) is starting this year.