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Neutron monitors as a traditional tool to study cosmic rays variability

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A world-wide network of round-based neutron monitors (NMs) is a traditional tool to study variability of cosmic rays, both galactic cosmic rays (GCR) and solar energetic particles (SEPs). The network is in continuous operation since the 1950s and counts dozens of stations around the globe. Here, a brief review is given of the principles and methods of the NM operation and detection, of the methods of evaluating the cosmic ray flux, anisotropy and variability. The methods are based on the NM computed yield function and include global surveys, latitudinal surveys, analysis of GLE.
Some examples of the cosmic ray variability are given.

Author: USOSKIN, Ilya (University of Oulu)

Presenter: USOSKIN, Ilya (University of Oulu)

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