



## **Observation of Solar Particle Events and monitoring of Galactic Cosmic Rays flux using neutron spectroscopy data obtained in different planetary missions.**

Dmitry Golovin, Maxim Litvak, Igor Mitrofanov, Anton Sanin, Alexey Malakhov, Igor Nizhdin, Fedor Fedosov, and Sergey Nikiforov

Space Research Institute, Laboratory, Moscow, Russian Federation (litvak@mx.iki.rssi.ru)

The fluxes of solar protons during 2001-2013 measured with GOES and ACE missions have been used to compare it with measurements of neutron flux made by neutron spectrometers in various planetary missions such as HEND/Odyssey, BTN/ISS, LEND/LRO, DAN/MSL. We have also analyzed data from these experiments to monitor variations of Galactic Cosmic Rays (GCRs) flux within current solar cycle.