

The 4th International Symposium on Cosmic Rays and Astrophysics (ISCRA-2023)

Contribution ID: 30

Type: **Original Talk**

Acceptance vectors of muon hodoscope URAGAN

Thursday, 29 June 2023 12:30 (15 minutes)

Cosmic ray variations observed with ground-based detectors include variations of extraterrestrial origin, atmospheric, magnetospheric, apparatus variations, and statistical fluctuations. The method of acceptance vectors allows us to determine cosmic ray anisotropy out of the magnetosphere for studying physics of solar-terrestrial relations. The basis of the technique are coupling function method, calculations of particle trajectories in the terrestrial magnetic field, and spherical analysis.

The work presents preliminary results of muon hodoscope URAGAN acceptance vectors computing. Furthermore, the comparison of muon data with the Global Survey Method for neutron monitor network is discussed. Finally, the application of the method to investigate geoeffective events by cosmic ray data is considered.

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Session Classification: Cosmo- and geophysical aspects of cosmic rays at the ground level

Track Classification: Cosmo- and geophysical aspects of cosmic rays at the ground level