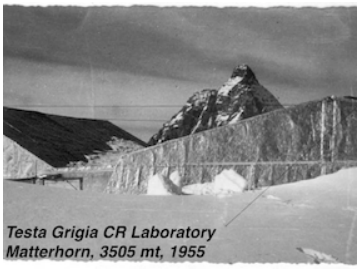

Contribution ID: **65** Type: **poster**

Vector anisotropy of the cosmic rays in the beginning of the Forbush decreases

Tuesday, 6 September 2016 16:30 (1h 45m)

The behavior of cosmic ray density and the anisotropy in the first hours of Forbush decrease is studied during the period 1957-2014. Only Forbush effects followed by the arrival of the interplanetary shock wave were considered. It is shown that already in the beginning of events the magnitude of the first spherical harmonic of anisotropy increases substantially, and its direction changes significantly. The more powerful interplanetary disturbance the more changes are manifested in anisotropy. By the changes of some parameters of the cosmic ray density and anisotropy one can have the information about the heliolongitude of the source of disturbance, and on the further development of the Forbush decrease and geomagnetic activity as well.

Primary author: Mrs ABUNINA, Maria (IZMIRAN)

Co-authors: Dr BELOV, Anatoly (IZMIRAN); Dr ABUNIN, Artem (IZMIRAN); Dr EROSHENKO, Evgeniya (IZMIRAN); Dr YANKE, Victor (IZMIRAN); Dr OLENEVA, Victoriya (IZMIRAN)

Presenter: Mrs ABUNINA, Maria (IZMIRAN)

Session Classification: Poster