



Contribution ID: 76

Type: poster

## The second knee observed in the local muon density spectra at various zenith angles

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

Local muon density spectra (LMDS) at various zenith angles have been reconstructed from the DECOR data on inclined muon bundles detected at a ground level. In comparison with the earlier DECOR results, the experimental statistics has been increased by 2-3 times for different ranges of zenith angle and muon bundle multiplicity and is now based on about 40,000 h of the setup operation. It is found that the slope of LMDS is increasing above the primary energy of about  $10^{17}$  eV. The details of the experiment and data analysis will be presented.

**Primary author:** KOKOULIN, R.P. (National Research Nuclear University MEPhI)

**Co-authors:** PETRUKHIN, A.A. (National Research Nuclear University MEPhI); BOGDANOV, A.G. (National Research Nuclear University MEPhI); CHERNOV, D.V. (National Research Nuclear University MEPhI); YURINA, E.A. (National Research Nuclear University MEPhI); MANNOCCHI, G. (Istituto di Fisica dello Spazio Interplanetario, Torino); TRINCHERO, G. (Istituto di Fisica dello Spazio Interplanetario, Torino); YASHIN, I.I. (National Research Nuclear University MEPhI); KOMPANIETS, K.G. (National Research Nuclear University MEPhI); DUSHKIN, L.I. (National Research Nuclear University MEPhI); BARBASHINA, N.S. (National Research Nuclear University MEPhI); SAAVEDRA, O. (Dipartimento di Fisica dell'Universita di Torino); KHOKHLOV, S.S. (National Research Nuclear University MEPhI); KHOMYAKOV, V.A. (National Research Nuclear University MEPhI); KINDIN, V.V. (National Research Nuclear University MEPhI); SHUTENKO, V.V. (National Research Nuclear University MEPhI)

**Presenter:** KOKOULIN, R.P. (National Research Nuclear University MEPhI)

**Session Classification:** Poster