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## Muon flux in the atmosphere at solar activity minimum

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### Abstract content

Measurements of muon flux in the atmosphere have been performed by Lebedev Physical Institute during sea expeditions in November, 1975 - March, 1976 period. This survey covered a wide range of latitudes with geomagnetic cutoff rigidities  $R_c$  from 0.8 up to 14.2 GV. The data on muon flux as a function of atmospheric depth ( $X \sim 10$ -1000 g/cm<sup>2</sup>) were obtained. On the other hand based on GEANT4 facilities we have calculated the secondary muon fluxes produced by galactic cosmic rays in the atmosphere at different  $R_c$  during solar activity minimum epoch. The experimental and calculation results as well as their comparison are presented in the paper.

**If this papers is presented for a collaboration, please specify the collaboration**

### Summary

### Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 1 (SH), pages 689-692

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