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Muon flux in the atmosphere at solar activity minimum

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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/cm²) 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.

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