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Cosmic-ray muon flux measurements in Belgrade low-level laboratory

Abstract content

We report results of cosmic-ray muon flux measurements in the Belgrade low-level laboratory (geographic latitude 44°51'N, vertical geomagnetic rigidity cut-off 5.3GV). Continuous measurements are performed from 2002 to 2006 at ground level (78m a.s.l) and in the underground low-level laboratory (25m.w.e). At the ground level the average muon flux is found to be $1.6(1) \times 10^{-2}$ s⁻¹cm⁻² and vertical intensity $1.0(1) \times 10^{-2}$ s⁻¹cm⁻²sr⁻¹, while for the underground location the results are $4.5(2) \times 10^{-3}$ s⁻¹cm⁻² and $2.5(2) \times 10^{-3}$ s⁻¹cm⁻²sr⁻¹, respectively.

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

Summary

Reference

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