

Measurement of muon flux in the Canfranc Underground Laboratory

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Residual flux of high energy cosmic muons in Canfranc Underground Laboratory (LSC) was measured by the Muon Monitor developed especially for this goal. It is a three-layer assembly of the matrix of fast SC16 scintillation detectors. The monitor has an effective square aperture of 1 m² and angular aperture $\approx 80^\circ$. Rare muon signals are selected from prevailing gamma ones by means of triple coincidence technique and tracking analysis. Calculation of monitor apparatus function and analysis of experimental data was carried out by means of Monte Carlo simulation. Muon flux of $4.7 \pm 0.4 m^{-2} s^{-1}$ has been obtained for LAB2400 (Hall A) of the LSC.

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