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LVD STATUS REPORT: UNDERGROUND MUON PHYSICS

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We present the results of the LVD experiment in the field of muon physics. The scintillation LVD detector is used to study cosmic ray muons with mean energy of 280 GeV at an average depth of 3.6 km w.e. The experiment has been going on since 1992 at the Gran Sasso underground laboratory, Italy. During 28 years of work, the characteristics of the muon flux, its dependence on depth and seasonal variations and, the charge muon ratio, the multiplicity curve of muon groups and the decoherent curve have been obtained.

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