

Analysis of the temperature variations of neutrons generated by muons in the detector LVD.

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Russian-Italian large volume detector LVD is located in the Gran Sasso National Laboratory underground at the depth of 3300 m w.e. Data of neutrons generated by muons from April 2003 were analysed to study the seasonal modulation of the cosmic ray penetrating component. Variations of neutron generated by muons were found with a time period of 1 year, with the maximum intensity in July in the agreement with theoretical predictions.

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