



Contribution ID: 26

Type: **not specified**

Low-Energy Neutron Propagation in GEANT4 and MCNPX

Thursday 13 September 2007 16:00 (20 minutes)

Summary

Simulations of neutron background from rock for underground experiments are presented. Neutron propagation through two types of rock, lead and hydrocarbon material, is discussed. The results show a reasonably good agreement between GEANT4, MCNPX and GEANT3 in transporting low-energy neutrons.

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Session Classification: Parallel Session 1 (b) - Low Background Experiments

Track Classification: Geant4 Users Conference : Low background