



Contribution ID: 42

Type: Oral

Transport of low energy neutrons and charged particles in Geant4

Wednesday 24 April 2019 09:30 (35 minutes)

Geant4 allows to use the information available in ENDF-6 format data libraries for the transport of low energy neutrons and charged particles (up to 20 MeV). This is done by the so called G4ParticleHP model (previously G4NeutronHP). We will show the performance of the model, showing its capabilities and limitations. We will also talk about how to use it and about which simulations can be done with this model and which ones can not. Finally, we will propose future developments to improve the performance of the code.

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Session Classification: Nuclear reactions at low and intermediate energies

Track Classification: Nuclear reactions at low and intermediate energies