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Testing suite for validation of Geant4 hadronic generators

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The testing suite for validation of Geant4 hadronic generators with the data of thin target experiments is presented. The results of comparisons with the neutron and pion production data of are shown for different Geant4 hadronic generators for the beam momentum interval 0.5 –12.9 GeV/c.

Summary

The developed software of hadronic testing suite allows performing validation of the Geant4 hadronic generators in semiautomatic regime. The afs file system is used to archive results of simulation for different versions of Geant4. The software is used for model development and for final analysis of the simulation precision. It allows building an optimal combination of Geant4 cascade generators and high energy generators for LHC experiments simulation.

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