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Subject: Problem with TGeant4?

Posted by [C. A. Douma](#) on Mon, 27 Jun 2016 15:05:33 GMT

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I run a simulation where I have only NeuLAND in the setup. I shoot 1 GeV neutrons onto NeuLAND (14 m distance, 4.5 degrees angular spread, box generator). When I run this simulation under TGeant4, I only find a few different tracks in the MCTrack-branch of the output-file. When I however run the same simulation under TGeant3, The MCTrack branch is much larger. In further analysis, this results in that Geant4 gives only 40% detection efficiency for NeuLAND, while Geant3 gives 99%. Does anyone know why my Geant4 results are wrong?

Christiaan.

PS: The histogram included is the size of the MCTrack branch under Geant4.

### File Attachments

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1) [MCTrack\\_Size.png](#), downloaded 928 times

