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Subject: Re: Geant 3, Geant 4 VMC, native geant 4 comparison

Posted by [Dima Melnychuk](#) on Fri, 22 Feb 2008 12:30:51 GMT

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I used standard Electromagnetic Physics List only - PhysListEmStandard.cc which I copied from one of Geant4 examples (/geant4/examples/extended/electromagnetic/TestEm14/src/), but it is identical in most of electromagnetic examples. In Geant4 there are several alternative electromagnetic physics lists, but this is recommended.

And I used default cut value - 1mm, which is actually used in Babar framework.

In pandaroot in g4config.C there is a cut not in range but in energy - 1MeV, but when I run simulation in pandaroot with Geant4 it prints energy cuts which correspond to 1 mm range cut for PWO (84.8 keV for gamma and 1.13 MeV for electrons) but if I put these values instead of 1 MeV the result is the same.

Dima

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