Subject: Difference of neutral candidate between Geant4 and Geant3
Posted by donghee on Thu, 31 Oct 2013 09:12:04 GMT
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Dear all,

I am trying to use Geant4 in the simulation, and have seen quite different behaviour for Geant4 and Geant3 at the multiplicity of neutral candidate.

Quote:
PANDAroot apr13 released version.
Beam momentum = 15 GeV
MC : DPM
Cut on the neutral candidate : E > 10 MeV

I compared two cases, one is the charged candidate and another one is the neutral candidate. please find the plot in attachment.

For charged candidate, both Geant3 and Geant4 look pretty much same, but for neutral case, the size of neutral candidates significantly different.
I didn't touch any option in the g4config.C

Which engine describe better for photon simulation?
Do I need some fine tuning from option control to use Geant4?

Best wishes,
Donghee

File Attachments

1) multiplicity_dpm_dc_geant.eps, downloaded 719 times