
Subject: Cherenkov photons in Geant4

Posted by [Maria Patsyuk](#) on Wed, 11 May 2011 16:23:41 GMT

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Hello,

I've installed PANDARoot at home on a 64 bit LINUX machine and I switched CKOV(1) in g3Config.C, but if I run simulations of PANDA Barrel DIRC with Geant4, I don't see any optical photons! (With Geant3 everything is ok)

Can somebody tell me where to switch them on?

I use feb11 external packages if this matters.

Thank you.

Subject: Re: Cherenkov photons in Geant4

Posted by [Mohammad Al-Turany](#) on Wed, 11 May 2011 18:58:20 GMT

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Hi,

To switch on the optical properties with G4 you have to switch it on in the gconfig/g4Config.C

Quote: TG4RunConfiguration* runConfiguration
= new TG4RunConfiguration("geomRoot", "QGSP_BERT_EMV",
"stepLimiter+specialCuts+specialControls");

here you have to add "optical" to the physics lists i.e:

Quote: TG4RunConfiguration* runConfiguration
= new TG4RunConfiguration("geomRoot", "QGSP_BERT_EMV+optical",
"stepLimiter+specialCuts+specialControls");

see the g4Config.C for more options.

regards,

Mohammad
