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Subject: Re: radiation length study or G3 vs G4  
Posted by [Dmitry Khanef](#) on Fri, 25 Jun 2010 13:43:22 GMT  
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Dear Mohammad,

I took a look in macro. There is one thing I do not understand. Why multiplicity is set to 10?

I changed multiplicity from 10 to 1, replaced MVD with a latest (Mvd-2.1\_AddDisks\_FullVersion.root) geometry and commented some of the detectors. Edited version is attached.

I got 2 different pictures.

But when I use default for this macro MVD geometry (MVD\_v1.0\_woPassiveTraps.root) both G3 and G4 gave same results.

I comment out everything except of MVD and run 4 times with both new and old geometries with G3 and G4.

Results are attached. As you can see there is a difference of the order of 1 radiation length at some points when latest MVD is used and no difference in case of old geometry.

Best regards,  
Dmitry

#### File Attachments

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- 1) [g3newMVDE.eps](#), downloaded 450 times
  - 2) [g4newMVDE.eps](#), downloaded 400 times
  - 3) [g3oldMVD.eps](#), downloaded 376 times
  - 4) [g4oldMVD.eps](#), downloaded 407 times
  - 5) [rad\\_complete\\_stt.C](#), downloaded 409 times
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