
Subject: DIRC simulation in GEANT3 and GEANT4 using geometry from a .root file

Posted by [Maria Patsyuk](#) on Wed, 22 Dec 2010 12:02:09 GMT

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Hello,

I moved the Barrel DIRC geometry from detector class (PndDrc.cxx) to a .root file (geometry/dirc_l0.root) and now I can run the DIRC simulation only with GEANT3.

With GEANT4 simulation crashes both on 32-bit and 64-bit mashines with the following message:

```
*****
```

```
Geant4 version Name: geant4-09-02-patch-02 (28-August-2009)
```

```
Copyright : Geant4 Collaboration
```

```
Reference : NIM A 506 (2003), 250-303
```

```
WWW : http://cern.ch/geant4
```

```
*****
```

```
Info in <TG4RootNavMgr::Initialize>: Creating G4 hierarchy ...
```

```
Info in <TGeoManager::ConvertReflections>: Converting reflections in: FAIRGeom - FAIR geometry ...
```

```
Info in <TGeoManager::ConvertReflections>: Done
```

```
==> GEANT4 materials created and mapped to TGeo ones...
```

```
Cannot make material for volume: BarrelDIRC
```

```
Aborting in CreateLogicalVolume()
```

```
*** G4Exception: Aborting execution ***
```

the macro which creates geometry as a .root file is the following:
/u/mpatsyuk/PANDA/trunk/macro/drc/createRootGeoFile.C

Do I have problems with materials??

But all the materials (media) are from the common file geometry/media_pnd.geo

Can somebody give me some hints about how to run the simulation usong g4?

Thank you.

Subject: Re: DIRC simulation in GEANT3 and GEANT4 using geometry from a .root file

Posted by [Mohammad Al-Turany](#) on Wed, 22 Dec 2010 20:39:23 GMT

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Hallo Maria,

Can you put your modified stuff in the development branch so that I can test it? or make it readable for all on the GSI cluster. I could not access any of your files for testing.

regards

Mohammad

Subject: Re: DIRC simulation in GEANT3 and GEANT4 using geometry from a .root file

Posted by [Maria Patsyuk](#) on Thu, 23 Dec 2010 08:46:42 GMT

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Hallo, Mohammad,

I made readable the trunk directory with all the changed stuff.

So the geometry is in geometry/dirc_l0.root,
simulation macro I used macro/drc/work1/LookupReco/sim_dirc.C
detector class drc/PndDrc.cxx

Thank you very much!
