
Subject: Error and warning in geometry of MDT and DRC
Posted by [Olaf Hartmann](#) on Thu, 21 Apr 2011 13:55:48 GMT
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Dear all,

after a checkout of r11678 (before I was working with r10849), my geometry definition doesn't work as before:

```
PndMdt *Muo = new PndMdt("MDT",kFALSE);  
Muo->SetBarrel("torino");  
Muo->SetEndcap("torino");  
Muo->SetMuonFilter("torino");  
Muo->SetMdtMagnet(kTRUE);  
Muo->SetMdtMFIron(kTRUE);  
fRun->AddModule(Muo);
```

now gives the following error:

Quote:PndMdt::ConstructGeometry : No good MDT Barrel definition

Furthermore,

```
PndDrc *Drc = new PndDrc("DIRC", kFALSE);  
Drc->SetRunCherenkov(kFALSE); // for fast sim Cherenkov -> kFALSE  
fRun->AddModule(Drc);
```

produces the following warning when using TGeant3:

Quote:=====

```
===== DRC:: ConstructOpticalGeometry() =====  
Warning in <TGeant3TGeo::DefineOpSurface>: Called for surface BarSurface. Not applicable  
in Geant3 - setting is ignored.  
Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarAirSurface. Not  
applicable in Geant3 - setting is ignored.
```

Please let me know what I should change.

Thanks
Olaf.

Subject: Re: Error and warning in geometry of MDT and DRC
Posted by [donghee](#) on Thu, 21 Apr 2011 13:58:27 GMT
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For MDT it should work with

torino -> fast

Subject: Re: Error and warning in geometry of MDT and DRC
Posted by [Olaf Hartmann](#) on Thu, 21 Apr 2011 14:04:36 GMT
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Ok, this way it works. Thanks.

Donghee Kang wrote on Thu, 21 April 2011 15:58 For MDT it should work with torino -> fast

Subject: Re: Error and warning in geometry of MDT and DRC
Posted by [donghee](#) on Thu, 21 Apr 2011 14:07:20 GMT
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I have same message...
I assume that one can simply ignore it, because this geometry is only part of DRC and should not change results too much in the tracking level.
But I'm not sure for PID part...will give some small(?) effects.
However, in simulation I don't have any crash due to that.

Quote:

```
=====
===== DRC:: ConstructOpticalGeometry() =====
Warning in <TGeant3TGeo::DefineOpSurface>: Called for surface BarSurface. Not applicable
in Geant3 - setting is ignored.
Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarAirSurface. Not
applicable in Geant3 - setting is ignored.
```

Subject: Re: Error and warning in geometry of MDT and DRC
Posted by [Maria Patsyuk](#) on Sun, 01 May 2011 10:09:41 GMT
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As far as I know the warnings that you get are harmless - they just inform you that Optical Surfaces work only with Geant4 and are ignored if you run the simulations using Geant3. The DIRC geometry and optical photons propagation are not affected by switching between Genat3 and Geant4.