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Subject: [FIXED] problem with GEANT4 materials  
Posted by [Dmitry Khanef](#) on Wed, 24 Feb 2010 14:39:35 GMT  
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Dear all,

I tried to implement some dead material as a part of the EMC backward encap.

I created some boxes made of copper but it cause an error during a simulation. If I replace copper with aluminium everything works!

Error log:

...

```
===== EMC:: ConstructROOTGeometry() m4 =====  
=====
```

File name Bw =  
/u/dkhanef/fairsoft/feb10/geometry/emc\_module4\_StraightGeo24.4\_AI2\_MVD.root  
Info in <TGeoManager::CheckGeometry>: Fixing runtime shapes...  
Info in <TGeoManager::CheckGeometry>: ...Nothing to fix  
Info in <TGeoManager::CloseGeometry>: Counting nodes...  
Info in <TGeoManager::Voxelize>: Voxelizing...  
Info in <TGeoManager::CloseGeometry>: Building cache...  
Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100  
Info in <TGeoManager::CloseGeometry>: 768 nodes/ 23 volume UID's in FAIR geometry  
Info in <TGeoManager::CloseGeometry>: -----modeler ready-----  
Info in <TG4RootNavMgr::SetNavigator>: TG4RootNavigator created and registered to  
G4TransportationManager  
Running TVirtualMCApplication::ConstructGeometry  
\*\*\*\*\*

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...
```

\*\*\* Break \*\*\* segmentation violation

...

```
=====
```

The lines below might hint at the cause of the crash.  
If they do not help you then please submit a bug report at

http://root.cern.ch/bugs. Please post the ENTIRE stack trace from above as an attachment in addition to anything else that might help us fixing this issue.

```
=====
#10 0xb64af89c in TGeoMedium::GetMaterial (this=0x0) at include/TGeoMedium.h:54
#11 0xaae5cad1 in TG4RootDetectorConstruction::CreateG4LogicalVolume (this=0xa2009e0,
vol=0x8e9f6b8)
    at montecarlo/g4root/src/TG4RootDetectorConstruction.cxx:284
#12 0xaae5cd9f in TG4RootDetectorConstruction::CreateG4PhysicalVolume (this=0xa2009e0,
node=0x8e9f678)
    at montecarlo/g4root/src/TG4RootDetectorConstruction.cxx:310
#13 0xaae5d2d1 in TG4RootDetectorConstruction::CreateG4PhysicalVolumes
(this=0xa2009e0) at montecarlo/g4root/src/TG4RootDetectorConstruction.cxx:225
#14 0xaae5d413 in TG4RootDetectorConstruction::Construct (this=0xa2009e0) at
montecarlo/g4root/src/TG4RootDetectorConstruction.cxx:191
#15 0xaae5b97e in TG4RootDetectorConstruction::Initialize (this=0xa2009e0,
sdinit=0xa2140b8) at montecarlo/g4root/src/TG4RootDetectorConstruction.cxx:173
#16 0xaae68293 in TG4RootNavMgr::Initialize (this=0x8cc7850, sdinit=0xa2140b8) at
montecarlo/g4root/src/TG4RootNavMgr.cxx:131
#17 0xaadd3f13 in TG4RunManager::ConfigureRunManager (this=0x8d4d140) at
run/src/TG4RunManager.cxx:233
#18 0xaadd4945 in TG4RunManager (this=0x8d4d140, runConfiguration=0x8c8d2c0) at
run/src/TG4RunManager.cxx:153
#19 0xaaddc57f in TGeant4 (this=0x8cf4f20, name=0x890a50c "TGeant4", title=0x8c8306c
"The Geant4 Monte Carlo", configuration=0x8c8d2c0)
    at run/src/TGeant4.cxx:148
=====
```

Any idea what is wrong with a copper?

Best regards,  
Dmitry