Subject: Muon Detector
Posted by StefanoSpataro on Wed, 11 Jun 2008 17:15:00 GMT
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Dear all,
in svn you can find the new release of the muon detector, developed together with George, according to our current solenoid design.

The package is now called "MDT" instead of MUO, such as "Muon Detector Tracker" (the original name).

A ideal digitization is also provided.

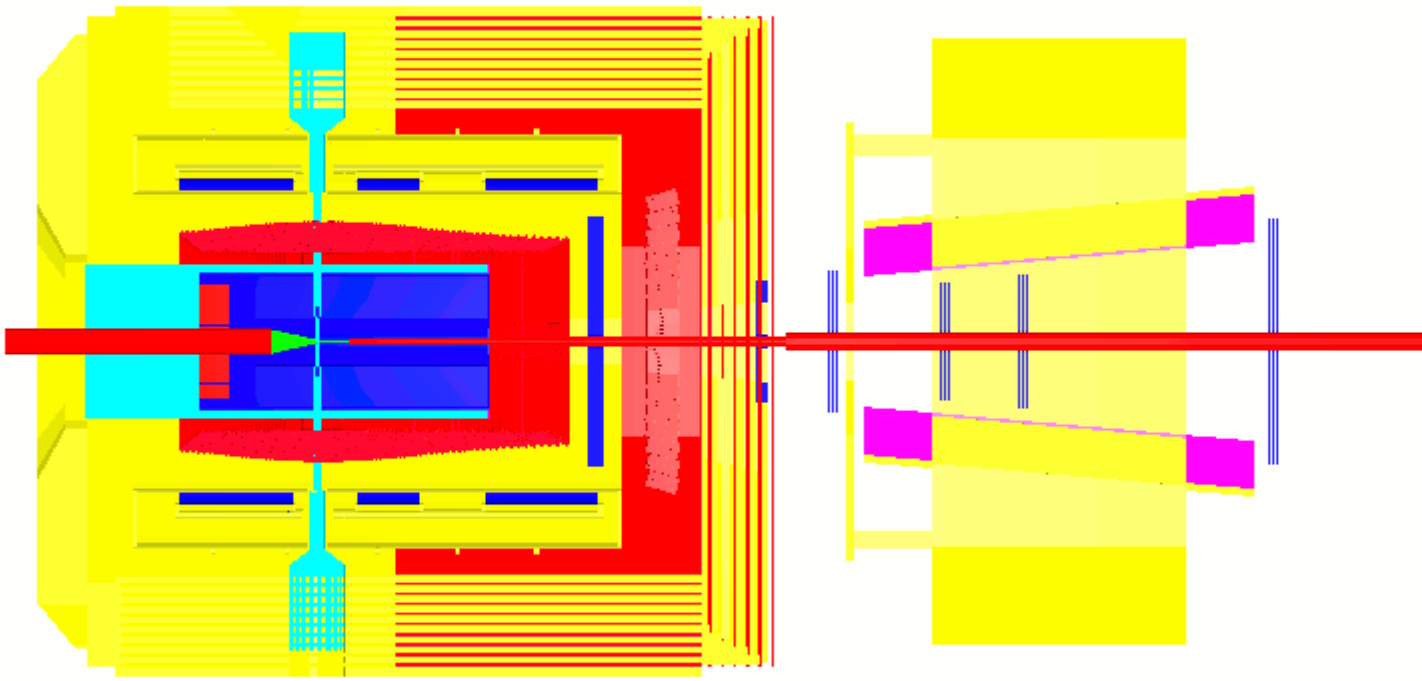
The macros were added also in svn, and the global macro/run_ macros were also updated. Please remember that libMuo does not exist anymore, but now you have to use libMdt.

Here you are our new sketch (I have no idea on why I am having problems with the Microvertex, maybe it is due to the old geometry).
Bye

Toggle Spoiler

## File Attachments

1) Untitled.gif, downloaded 964 times



Subject: Re: Muon Detector
Posted by Tobias Stockmanns on Thu, 12 Jun 2008 06:19:33 GMT
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Dear Stefano,

the problem with the MVD is very simple. You have to set the VisLevel to a value larger than ten. The MVD is based on a very structured design with many subgroups. Therefore the standard VisLevel of 3 is insufficient.

Cheers,

Tobias

Subject: Re: Muon Detector
Posted by StefanoSpataro on Thu, 12 Jun 2008 09:58:29 GMT

Hi Tobias,
the plot was done already with VisLevel 10.
The problem is that in the "standard" macro/run/run_sim1.C the called MVD geometry is MVD14.root, which produces a lot of errors, such as:

Toggle Spoiler
>>>>>>>>>>>>>>>>>>>>new event
**** GTRIGI: IEVENT= 8 IDEVT= 8 Random Seeds = 4357 0
CbmMCApplication::GeneratePrimaries()
-I CbmPrimaryGenerator: 10 primary tracks from vertex (0, 0, 0)Event Time = 0(ns)
Unknown Mvd Sensor type in volume
/cave_1/MVDoOption1_0/NewLayer3oHalfBarrel_1/NewLayer3Stave_1/Moduleo4FE_1/FullSensoro4FE_1/SensorActiveAreao[NrFE=4]oPartAss_1/SensorActiveAreao[NrFE=4]_1
Unknown Mvd Sensor type in volume
/cave_1/MVDoOption1_0/NewLayer3oHalfBarrel_2/NewLayer3Stave_4/Moduleo4FE_5/FullSensoro4FE_1/SensorActiveAreao[NrFE=4]oPartAss_1/SensorActiveAreao[NrFE=4]_1
Unknown Mvd Sensor type in volume
/cave_1/MVDoOption1_0/NewLayer3o2Modules_2/Moduleo4FE_9/FullSensoro4FE_1/SensorActiveAreao[NrFE=4]oPartAss_1/SensorActiveAreao[NrFE=4]_1
Unknown Mvd Sensor type in volume
/cave_1/MVDoOption1_0/NewLayer3o2Modules_2/Moduleo4FE_10/FullSensoro4FE_1/SensorActiveAreao[NrFE=4]oPartAss_1/SensorActiveAreao[NrFE=4]_1
Unknown Mvd Sensor type in volume
/cave_1/MVDoOption1_0/NewLayer3oHalfBarrel_1/NewLayer3Stave_1/Moduleo4FE_5/FullSensoro4FE_1/SensorActiveAreao[NrFE=4]oPartAss_1/SensorActiveAreao[NrFE=4]_1
Unknown Mvd Sensor type in volume
/cave_1/MVDoOption1_0/NewLayer3oHalfBarrel_2/NewLayer3Stave_3/Moduleo4FE_1/FullSensoro4FE_1/SensorActiveAreao[NrFE=4]oPartAss_1/SensorActiveAreao[NrFE=4]_1
Unknown Mvd Sensor type in volume
/cave_1/MVDoOption1_0/NewLayer3oHalfBarrel_1/NewLayer3Stave_2/Moduleo4FE_1/FullSensoro4FE_1/SensorActiveAreao[NrFE=4]oPartAss_1/SensorActiveAreao[NrFE=4]_1
-I- PndMvdDetector: 45 points registered in this event.

and then the geometry is not constructed.
When I use the last geometry MVD_v1.0_woPassiveTraps.root the errors vanish and the geometry is correctly constructed.(but before they worked together).

Should I change the geometry in the test macro/run/run_sim1.C , so that the last release is used?

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Subject: Re: Muon Detector
Posted by Ralf Kliemt on Thu, 12 Jun 2008 11:31:37 GMT


Hi Stefano,

This message is only a warning from the PndMvdDetector class. It has not other effect - i.e. the

MCpoints & volumes are correct. The message will be removed with my next commit.
Thanks for finding.

Ciao, Ralf.

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Subject: Re: Muon Detector
Posted by StefanoSpataro on Fri, 13 Jun 2008 08:26:23 GMT
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For all those who have problems with Dashboard,
the file Dart.sh was modified to set correctly the name of the muon library (muo->mdt).

So you should download the last version of Dash.sh, set your environment and everything will work again (hopefully).

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