Subject: RICH and TOF geometry in simulation
Posted by Anastasia Karavdina on Thu, 09 Jan 2014 22:03:33 GMT
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Dear all,
for some reason I need to visualize all sub-system available for simulation. I got it with event display and some toy MC data (after play with SetVisLevel()).

Despite the fact the PANDA Detector looks rather empty on such kind of picture compare to pictures from CAD, the RICH system looks particularly strange for me. From official page, RICH should look like this:
http://www-panda.gsi.de/framework/content/detector/img/panda_rich.jpg

From the event display I got attached picture, where aerogel and mirror structures are visible, but it seems there is nothing in between. Can some expert explain RICH geometry model used in simulation, please?

The next question is about TOF in Forward part. From some old pictures, it seems 2 TOF walls should be placed inside the Dipole region and one behind RICH.
After including FTOF via:

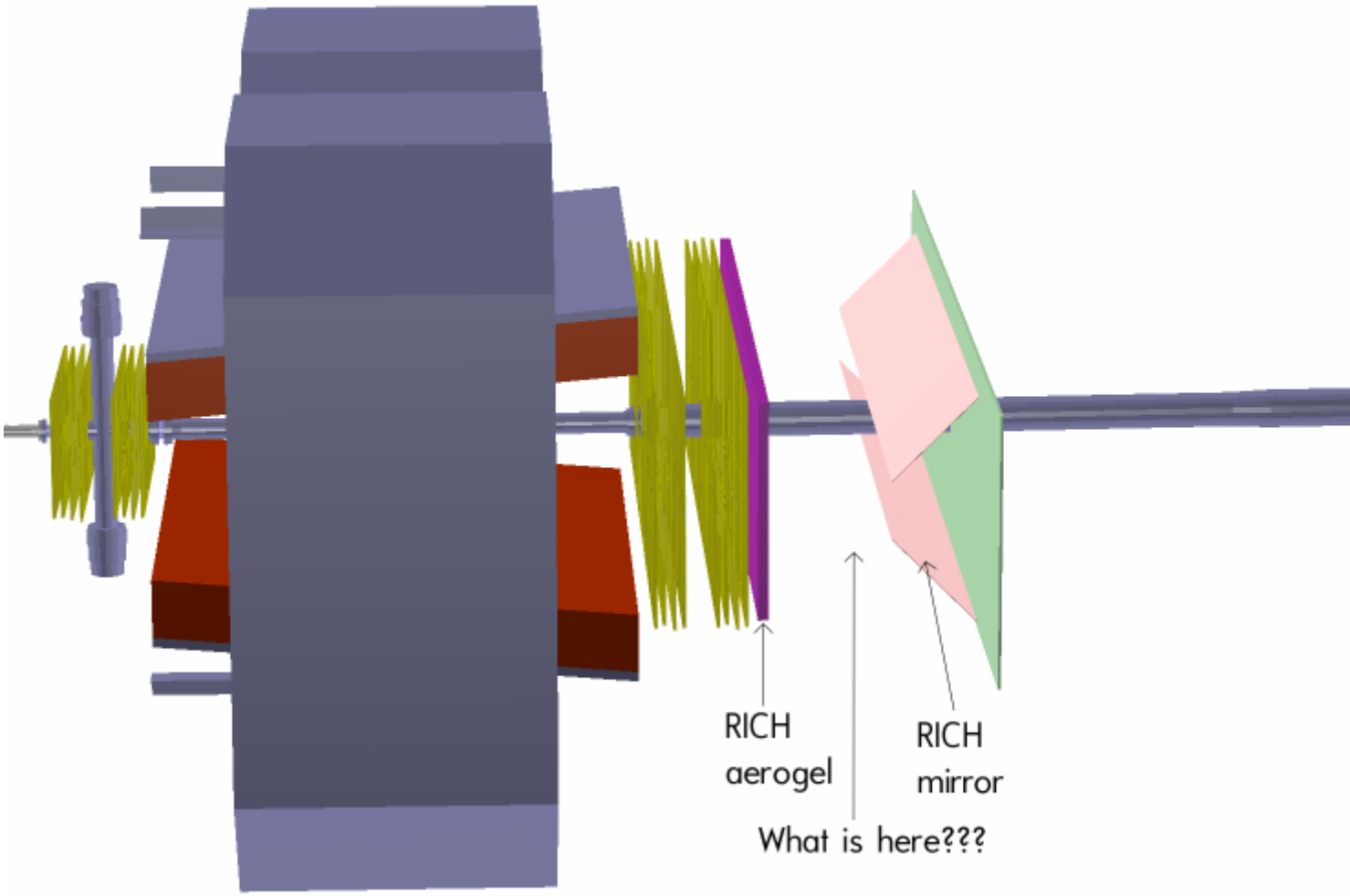
```
PndFtof *FTof = new PndFtof("FTOF",kFALSE);
FTof->SetGeometryFileName("ftofwall.root");
fRun->AddModule(FTof);
```

I got only one TOF wall, behind RICH. What's about walls inside Dipole? Are they missing, or not included for purpose?

Best regards,
Anastasia.

File Attachments

1) rich.png, downloaded 1016 times



Subject: Re: RICH and TOF geometry in simulation
Posted by asanchez on Fri, 10 Jan 2014 09:32:43 GMT
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Dear Anastasia,
As far as I know,
the tof side detector is not implemented for the moment
within the PANDARoot framework.
Since i created the tof wall geometry,
I can produce a preliminar geometry
according to the forward spectrometer design.

best regards
Alicia.

Subject: Re: RICH and TOF geometry in simulation
Posted by Anastasia Karavdina on Fri, 10 Jan 2014 11:27:37 GMT
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Dear Alicia,
Thank you once again for your reply! As I've explained you already, I'm interesting in materials before the LMD, so preliminary geometry for side TOF could be useful for me too.

Cheers,
Anastasia.

Subject: Re: RICH and TOF geometry in simulation
Posted by StefanoSpataro on Fri, 10 Jan 2014 16:21:11 GMT
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About the RICH, this should be only a problem of visualization level, I believe. Could do you try with different levels?

Subject: Re: RICH and TOF geometry in simulation
Posted by Anastasia Karavdina on Sat, 11 Jan 2014 17:35:04 GMT
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Hi Stefano,
You are right! With lower visualisation level it looks more like a detector and some transparent part in betweem became visible!

But MVD became invisible with such level.
Does it mean there is no visualisation level at which one can see all sub-systems together on event display?

Subject: Re: RICH and TOF geometry in simulation
Posted by StefanoSpataro on Mon, 13 Jan 2014 09:03:03 GMT
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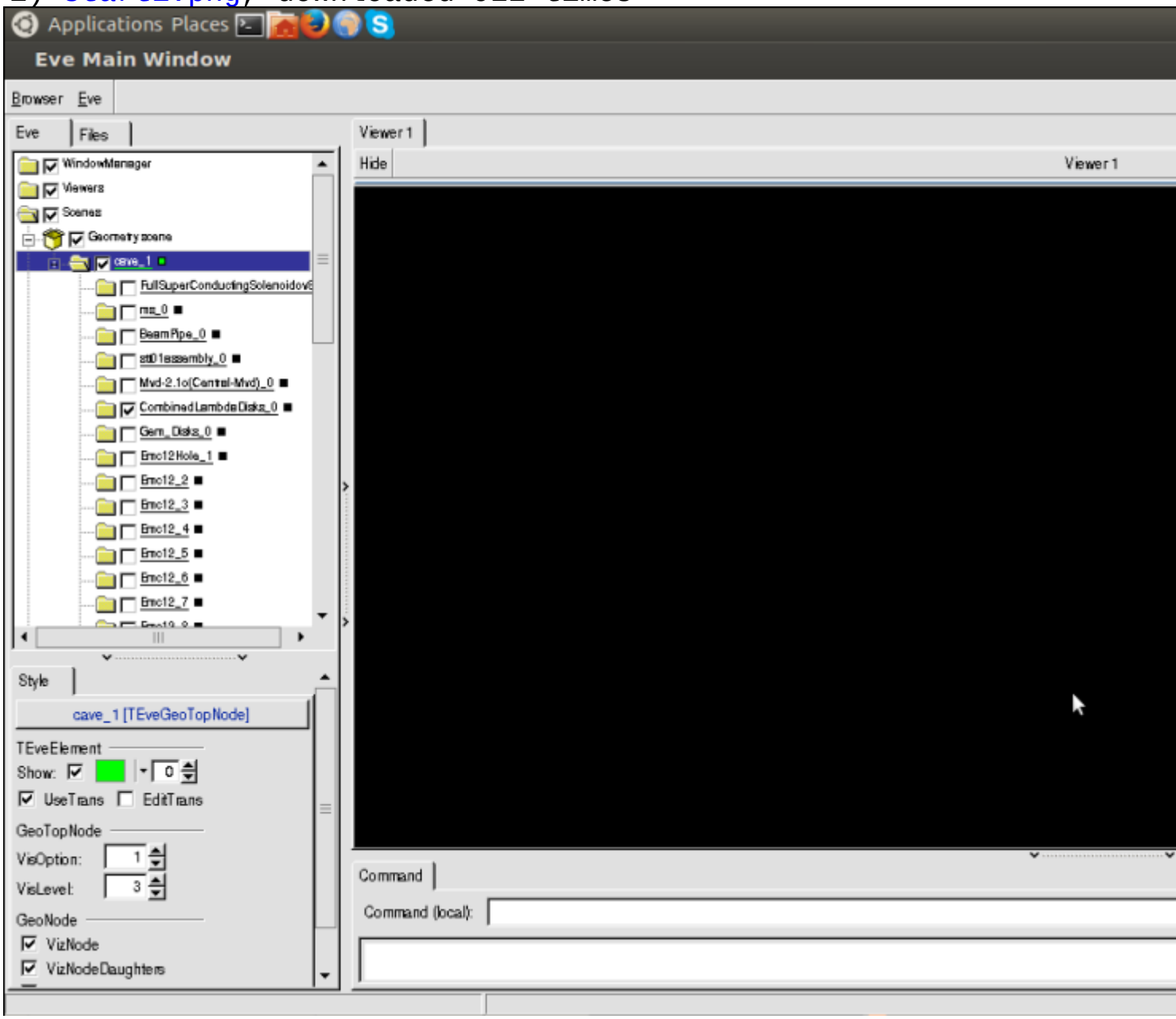
As far as I know, there is no way.
Maybe some eventdisplay expert knows how to change the visualization level of each detector separately, but not me.

Subject: Re: RICH and TOF geometry in simulation
Posted by Shyam Kumar on Tue, 25 Feb 2014 02:40:34 GMT
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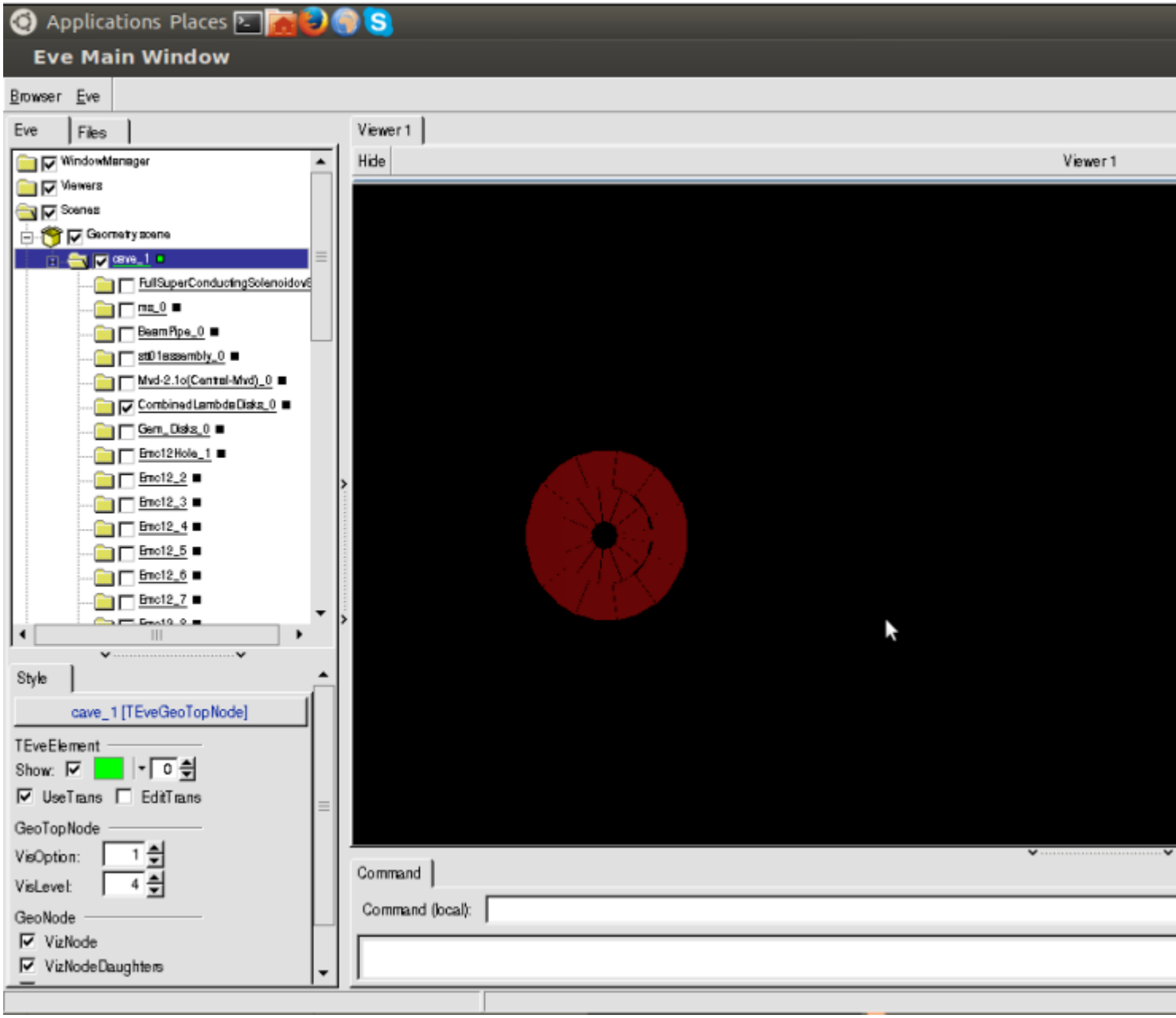
Hi,
I have faced the similar problem in the case of start detector to visualizing the geometry in event diaplay. I have changed the vislevel from 3 to 4 in event manager window. This option you will get when you click sin sequence(Scene=>Geometry scene=> Cave volume). I am attaching the images in my case I have changed the vislevel. However geometry vsiulisation in detail I have done for sensors and support by using Geomanager.

File Attachments

1) start1.png, downloaded 922 times



2) start2.png, downloaded 907 times


Applications Places
Eve Main Window
Browser Eve
Eve
Files
WindowManager
Viewers
Scenes
Geometry scene
cave_1
FullSuperConductingSolenoidov5
rns_0
BeamPipe_0
st01assembly_0
Mvd-2.1o(Central-Mvd)_0
CombinedLambdaDisks_0
Gem_Disks_0
Emc12Hole_1
Emc12_2
Emc12_3
Emc12_4
Emc12_5
Emc12_6
Emc12_7
Style
cave_1 [TEveGeoTopNode]
TEveElement
Show:
UseTrans
EditTrans
GeoTopNode
VisOption:
VisLevel:
GeoNode
VizNode
VizNodeDaughters
Viewer 1
Hide
Viewer 1
Command
Command (local):