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Subject: FEEMC from ROOT file

Posted by [Aleksandra Biegun](#) on Wed, 14 Nov 2007 17:41:11 GMT

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Hi All,

I just commit to svn a macro for creating a ROOT file for forward end-cap of emc (FEEMC) "createRootGeoFileFwEnd.C" which is in

/pandaroot/macro/emc/

directory. This end-cap geometry is created according to design made by Herbert Loehner and Henk Smit at KVI (discussed and accepted by PANDA collaboration at CM in Dubna).

I also adapted the PndEmc.cxx (\*.h) code for it.

This endcap is also called "module 3", so now one should not use both inputs for this endcap at the same time.

If someone wants to run simulation with barrel and backward endcap (from "emc\_module1245.dat", without module 3) and forward endcap (from "emc\_module3.root") one should called twice PndEmc class:

```
CbmDetector *Emc = new PndEmc("EMC",kTRUE);
Emc->SetGeometryFileName("emc_module1245.dat");
Emc->SetVerboseLevel(3);
fRun->AddModule(Emc);
```

```
CbmDetector *Emc = new PndEmc("EMC",kTRUE);
Emc->SetGeometryFileName("emc_module3.root");
Emc->SetVerboseLevel(3);
fRun->AddModule(Emc);
```

In attachment you can find plots for Points when variables, expecially energy of points, are compared for previous (black) and new (ROOT) version (red) of forward end-cap.

If you have any comments or problems with running simulation with the new file, please let me know.

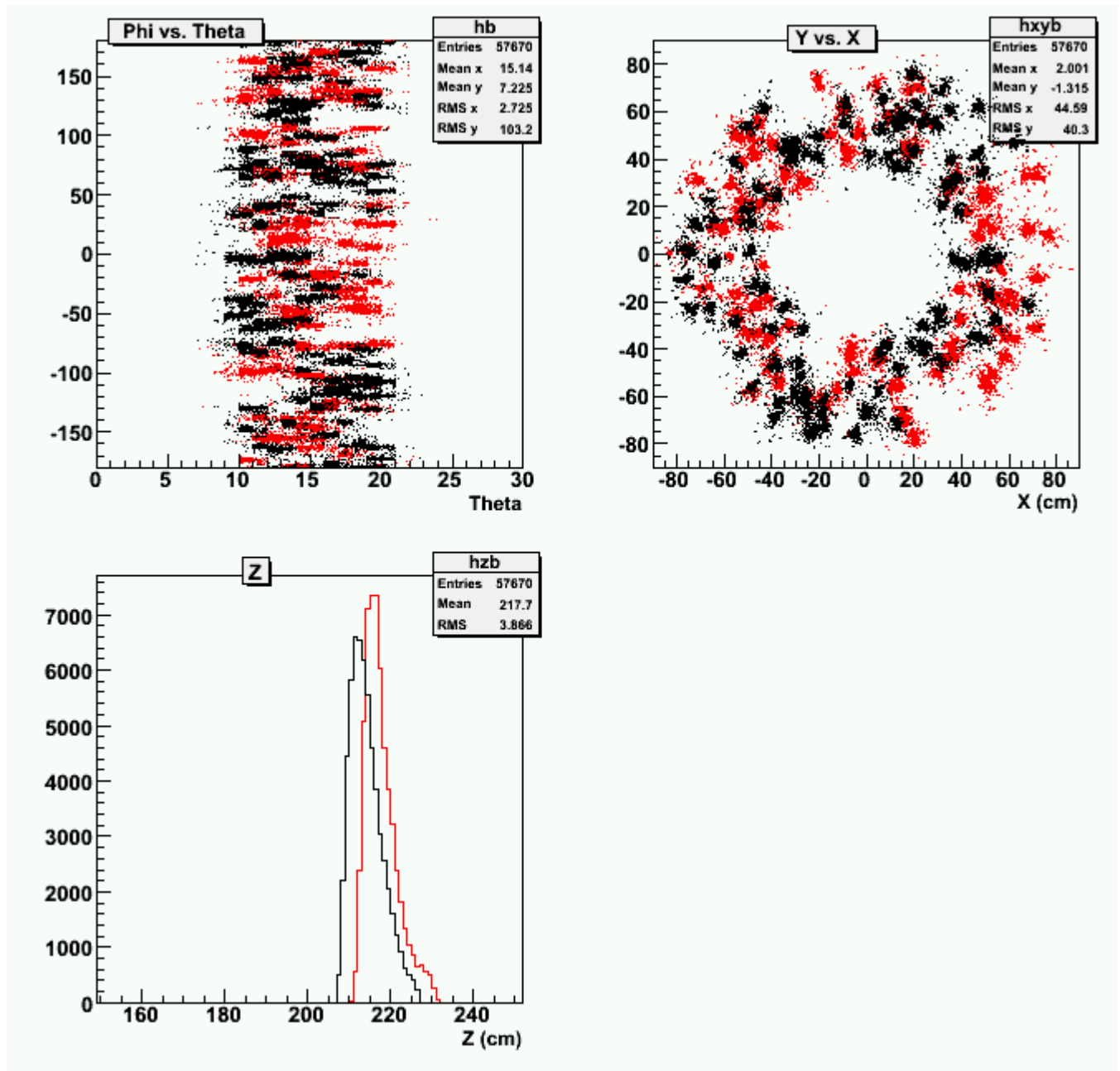
Best regards,  
Aleksandra.

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## File Attachments

1) [points\\_10th20\\_xy\\_z\\_thphi.png](#), downloaded 1115 times

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2) [points\\_10th20\\_en\\_id\\_time.png](#), downloaded 1101 times

