Subject: Bug in cluster angles Posted by StefanoSpataro on Fri, 22 Jun 2007 12:49:11 GMT

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Hello,

as already mentioned some meeting ago there is a bug in the calculation of cluster angles, coming from the shift of 37 mm of the barrel EMC.

Moreover, introducing the reflection instead of the rotation for the endcups, this introduced another bias even for phi.

Today I did some modifications on the Emc code and now (hopefully) the bugs should be far away...

Here you are some distributions for 2000 photons uniform in theta/phi/p[0,3][GeV/c]

theta(MC) - theta(EMC) vs theta(MC)

phiMC) - phi(EMC) vs phi(MC)

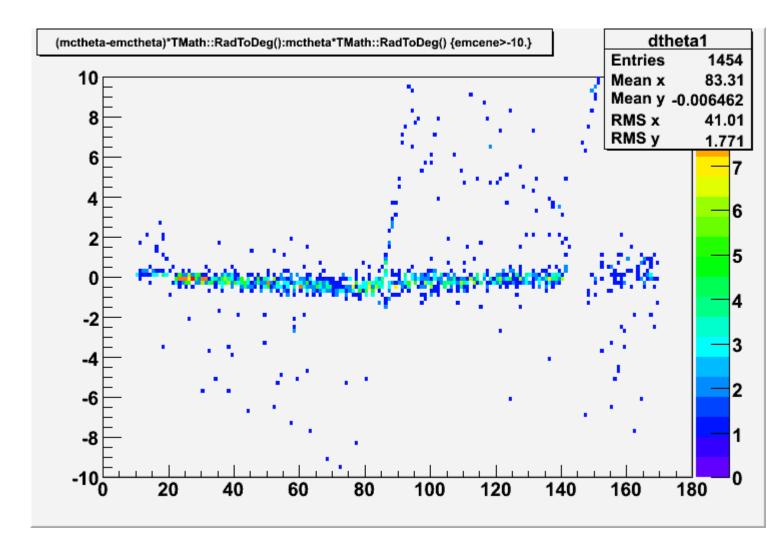
Hopefully now it should work.

I had no time to check the FSC part, which had the same problem. I hope it does work also, but further checks are needed.

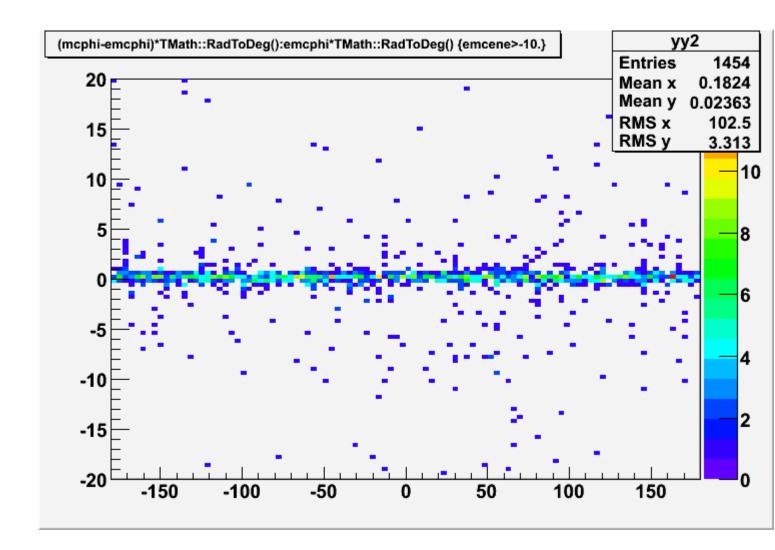
So, EMC people, please update your code. This is a temporary solution, before using the information from the TGeoManager

File Attachments

1) em_emc_dthetatheta_new.gif, downloaded 1189 times



2) em_emc_dphiphi_new.gif, downloaded 1135 times



Subject: Re: Bug in cluster angles

Posted by StefanoSpataro on Thu, 05 Jul 2007 08:18:24 GMT

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Hello,

in svn you can find the most updated version of the emc code.

The hole between module 1 and 2 in clusterization was solved; module 2 was inversely mapped with respect to iTheta, so module 1 and 2 were separated.

Further checks from others are well accepted.