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Subject: Bug in cluster angles

Posted by [Stefano Spataro](#) 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 endcaps, 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)

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

Hopefully now it should work.

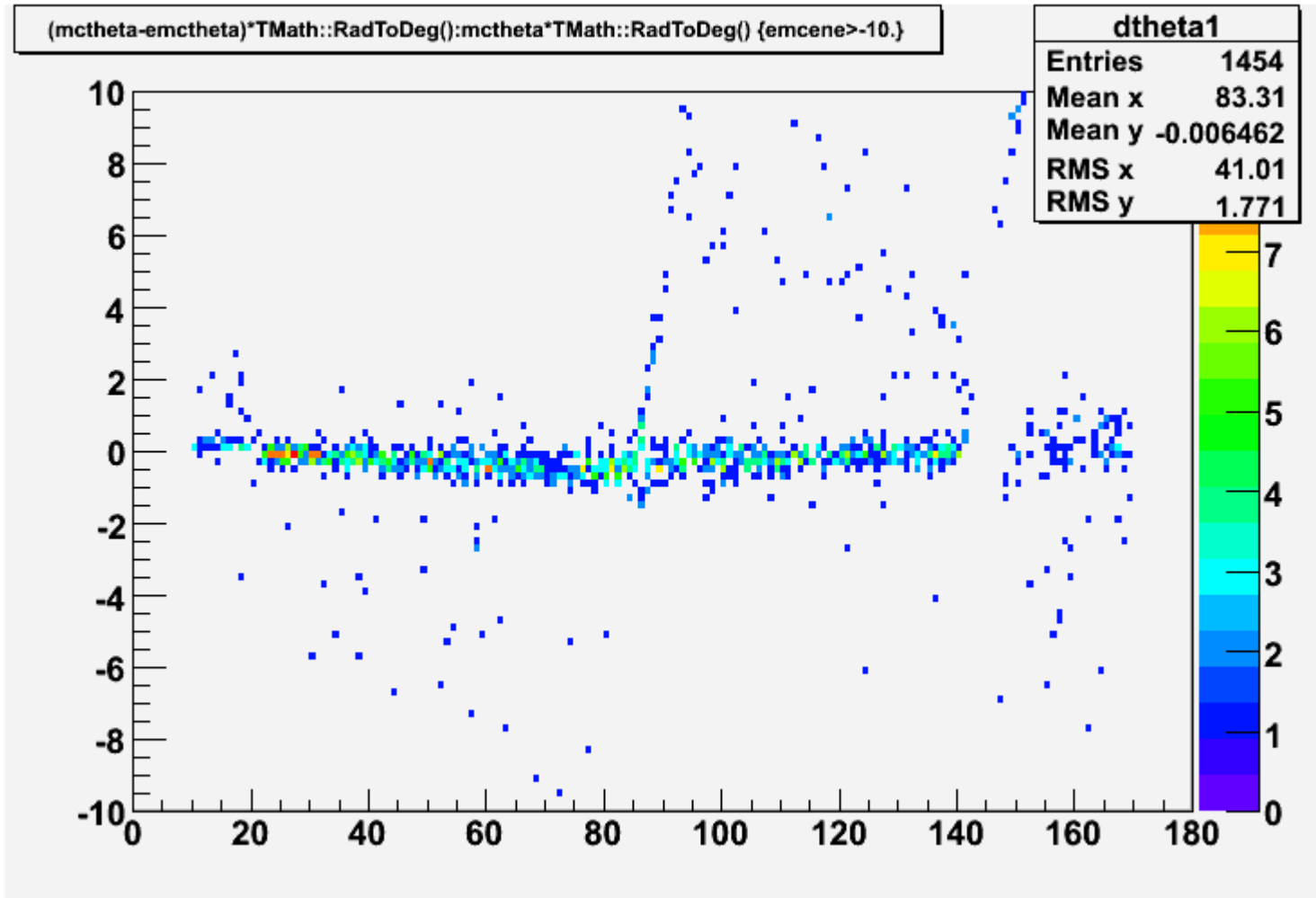
I had no time to check the FSC part, which had the same problem. I hope it does work also, but further checks are needed.

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

### File Attachments

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1) [em\\_emc\\_dthetatheta\\_new.gif](#), downloaded 836 times



2) [em\\_emc\\_dphiphi\\_new.gif](#), downloaded 782 times

