Subject: Re: forward endcap quest goes on Posted by Aleksandra Biegun on Thu, 02 Jul 2009 13:57:11 GMT

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Hi Irina, hi All,

the problem Irina has had with the forward endcap with GEANT 4 is fixed now.

Somehow, the single Reflection() I have made for Quarter number 2 and 4 caused the problem with the Z shift.

So, I have changed the macro which creates the geometry of the forward endcap (FwEndCap) and now it is called: createRootGeoFileFwEnd_fixed.C. It does not have Reftection() function. It is committed to svn to: ../trunk/macros/emc/ and creates the root file with the same name like was before, i.e. emc_module3new.root (also committed to svn), so you don't need to do any changes, just do svn update.

I also had to change a little bit .../trunk/emc/EmcTools/PndEmcStructure.cxx.

I put the same plots made twice: for GEANT 4 and, to compare, for GEANT 3.

At the plots:

z_ene_hits_digi_clusters_g[GEANT]_fwendcap_m3changed_fixed.png

you can see that Z-position for all 4 Quarters of the FwEndCap is in the same Z for GEANT 4. For GEANT 3 it was fine before.

The mapping is also fine, should be the straight line in each Quarter (each copy), what you can see at plots: xpad_x_points_m3_g4_fixed.png - for X direction ypad_y_points_m3_g4_fixed.png - for Y direction

Quarters of the FwEndCap are placed in the clockwise direction looking downstream.

Different parameters for Points, also Z-position of all 4 Qarters, are shown at plots:

points_g4_fwendcap_m3changed_fixed.png - for GEANT 4 points_g3_fwendcap_m3changed_fixed.png - for GEANT 3.

Irina, please check it.

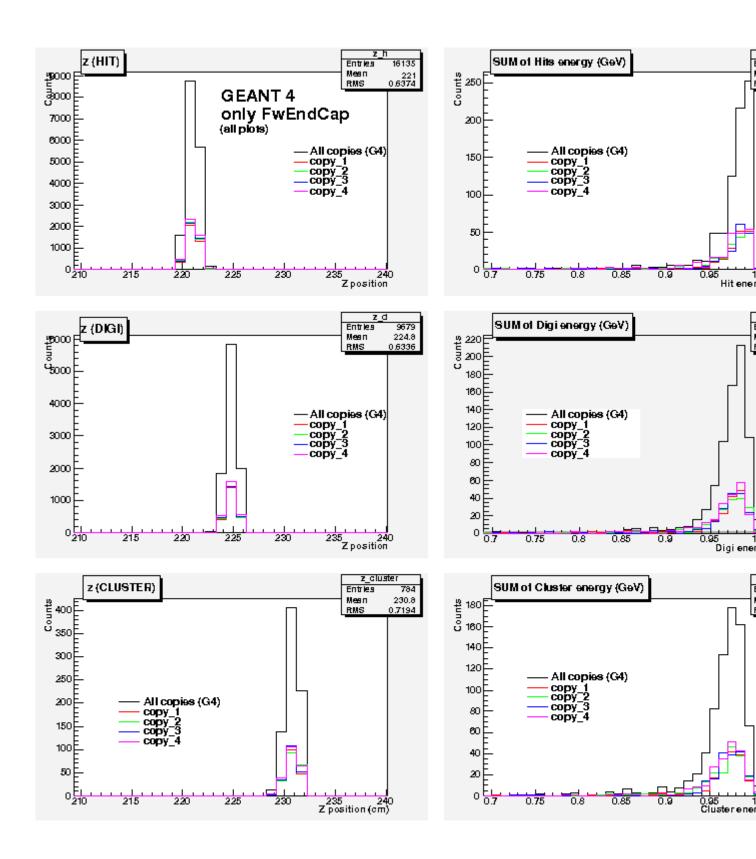
I do hope there will not be any problem, but in case of any, let me know.

If you have any question, do not hesitate to ask.

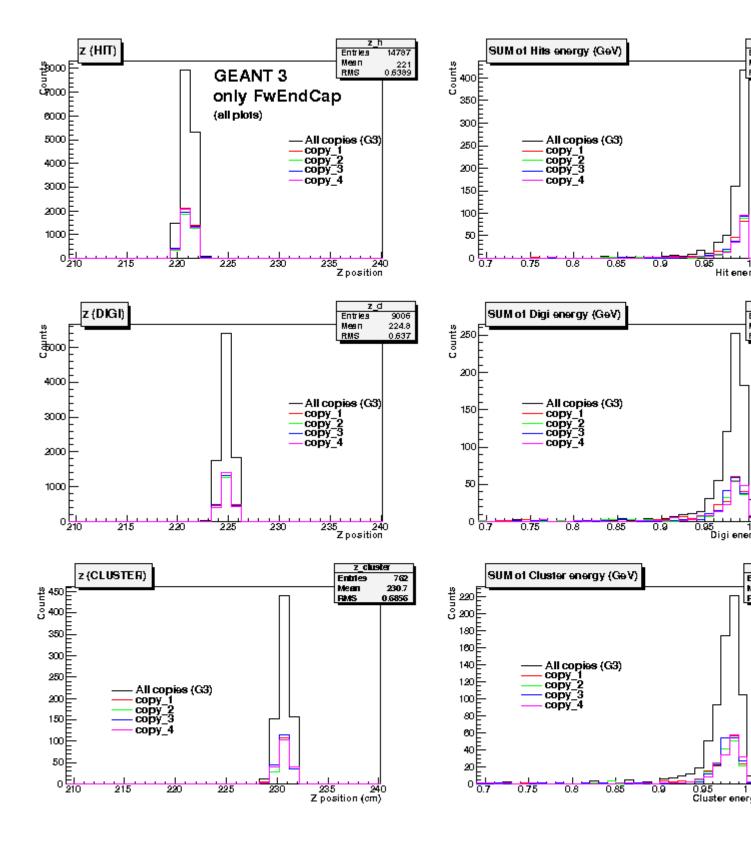
Best regards, Ola.

File Attachments
1) z_ene_hits_digi_clusters_g4_fwendcap_m3changed_fixed.png,
downloaded 565 times

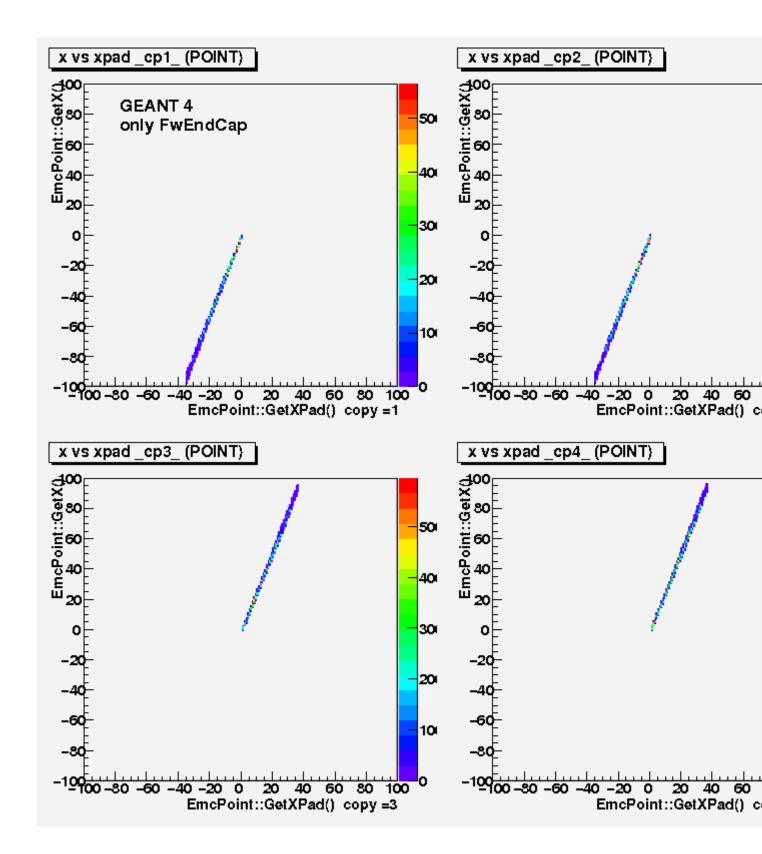
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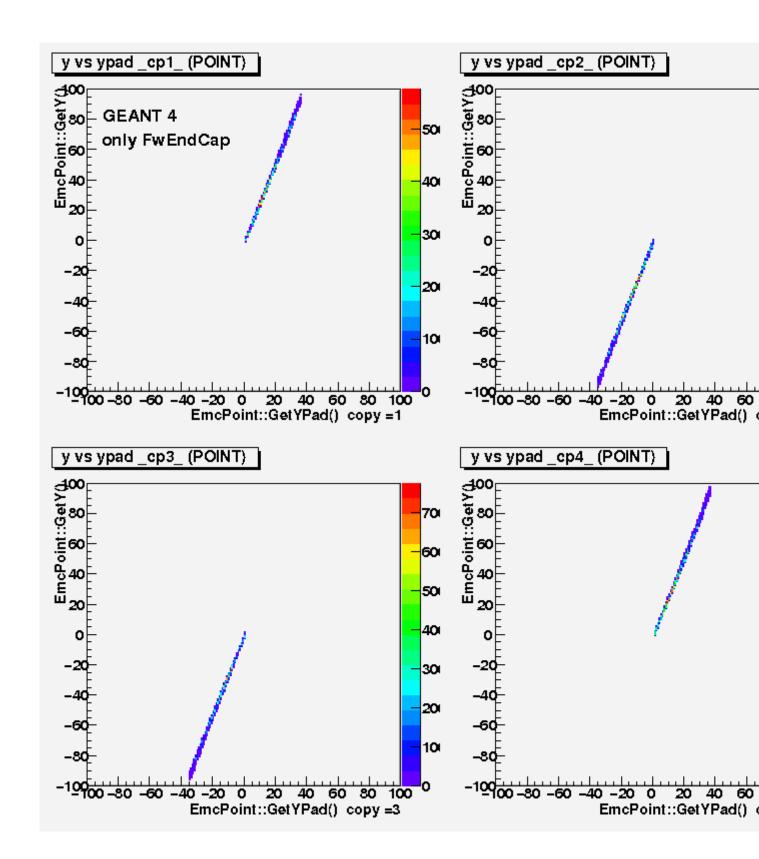
2) z_ene_hits_digi_clusters_g3_fwendcap_m3changed_fixed.png, downloaded 552 times



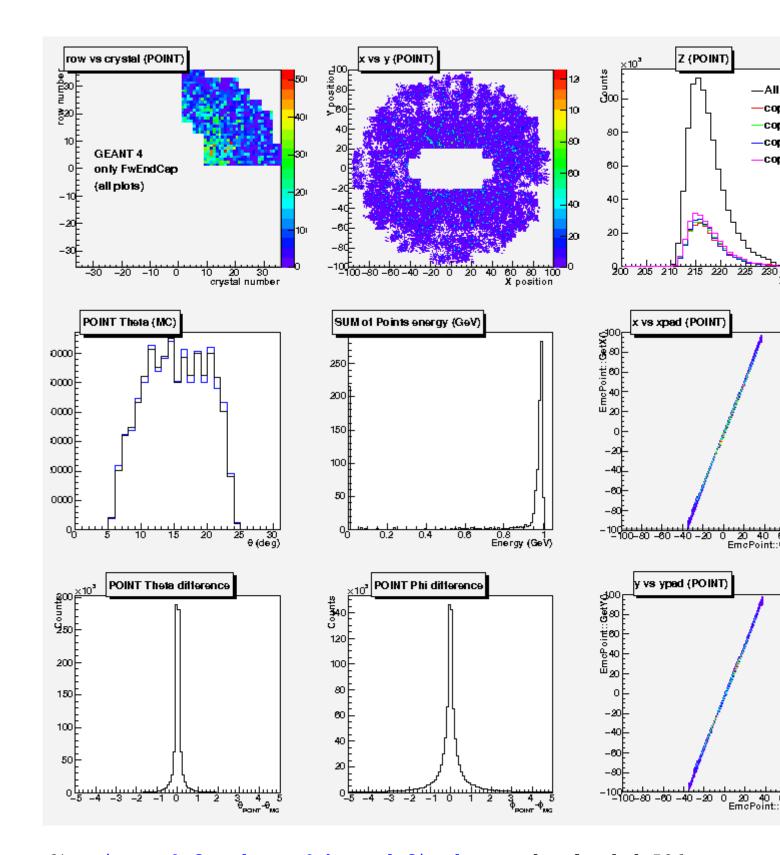
3) xpad_x_points_m3_g4_fixed.png, downloaded 536 times



4) ypad_y_points_m3_g4_fixed.png, downloaded 513 times



5) points_g4_fwendcap_m3changed_fixed.png, downloaded 540 times



6) points_g3_fwendcap_m3changed_fixed.png, downloaded 506 times

