
Subject: Re: geometry check

Posted by [Stefano Spataro](#) on Mon, 21 May 2007 12:20:06 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hello,

the Hit information comes from the center of the crystal, so it can be that there are holes in this distribution.

But if you check the theta/phi of the points, then you will see there are no holes (maybe only some deep).

In the following plots you can see these distributions, in red for the forward module, in blue for the backward one.

EmcPoint.GetTheta() distribution, before the shift:

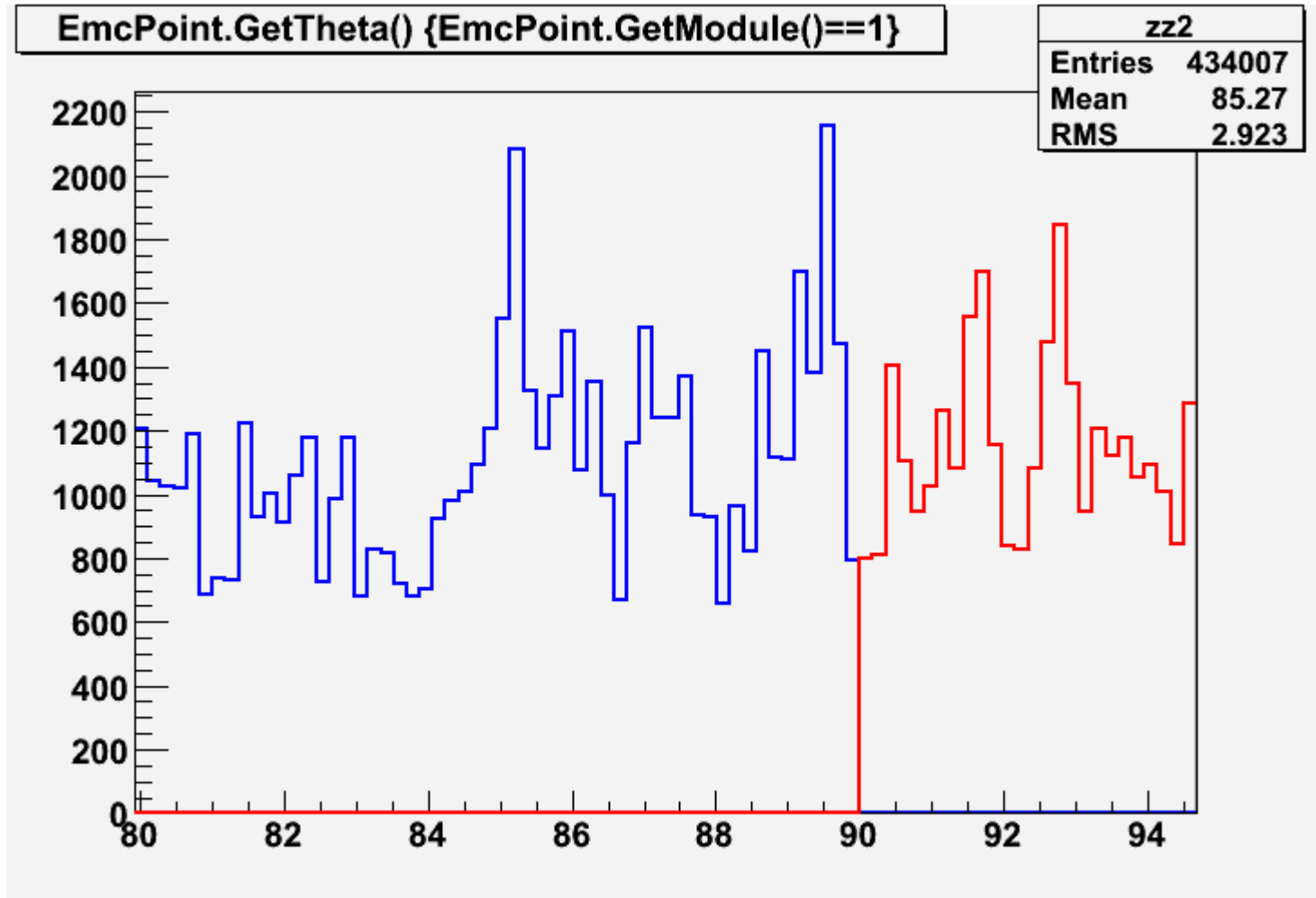
EmcPoint.GetTheta() distribution, after the shift:

The overlap region is now present, that means if one particle will go there, it will produce a signal in both the crystals, and not in one (or maybe in no one) of them.

The loss in counts I think should be adjusted by the calibration procedure, but this has to be studied.

File Attachments

1) [emc_old.gif](#), downloaded 1308 times



2) [emc_new.gif](#), downloaded 1193 times

EmcPoint.GetTheta() {EmcPoint.GetModule()==1}

zz2	
Entries	426726
Mean	82.07
RMS	2.629

