Subject: Re: failure of QA macro of EMC reconstruction
Posted by Johan Messchendorp on Sat, 05 Dec 2009 16:15:25 GMT
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Hi,

I just run it (QAmacro_emc_x.C) with 10000 events and there is really a significant shift in phi... well, at least on my computer. Let me attach figures which shows it: the difference between phi(cluster)-phi(MC) versus the phi angle (!) of the photon (histogram h2phi in the macro)...
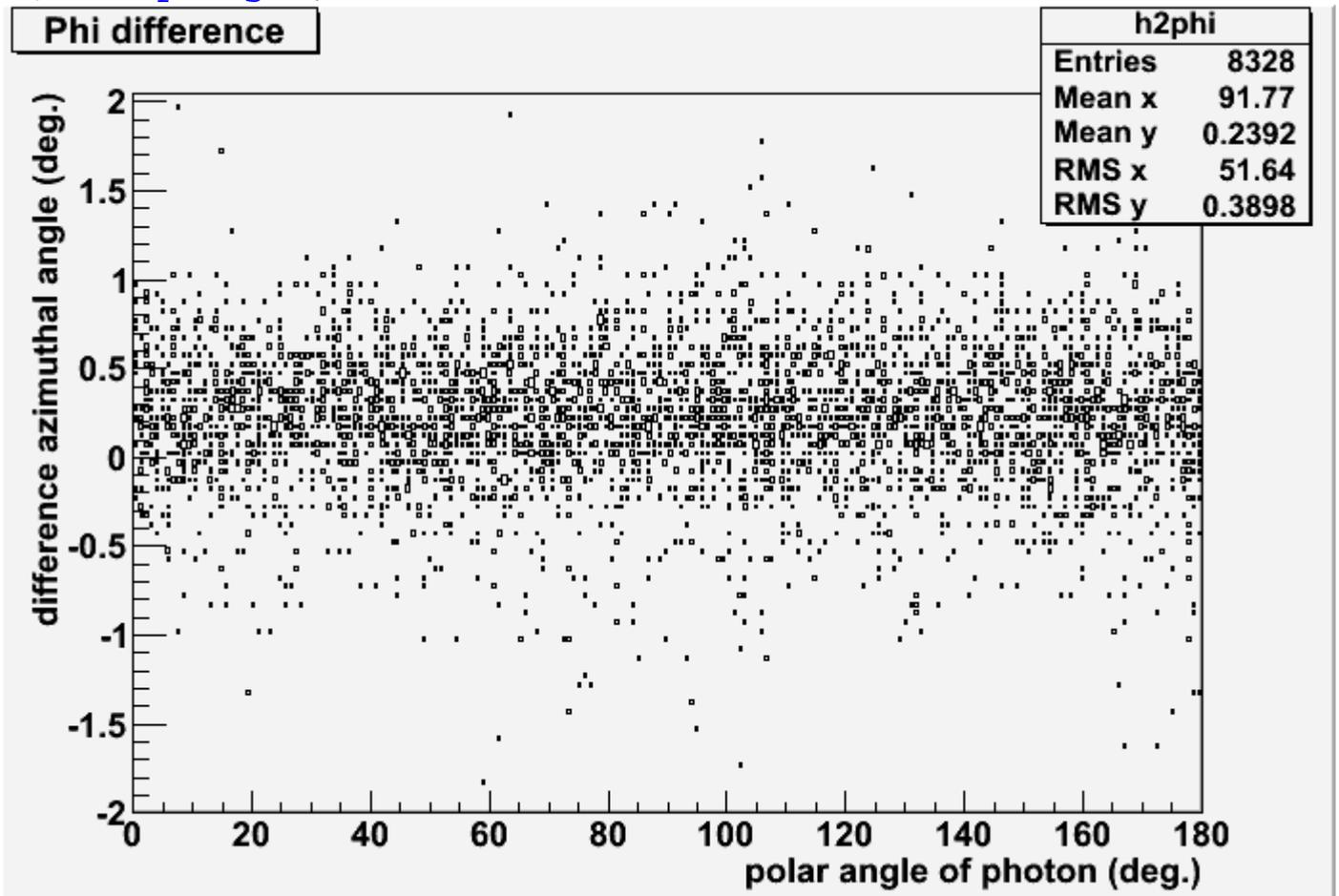
Alternatively, the difference against the polar angle... it appears to be related to the barrel part...

Greetings,

Johan

File Attachments
1) diffphi.gif, downloaded 1214 times

2) diffphivstheta.gif, downloaded 1165 times

Phi difference

h2phi	
Entries	8328
Mean x	83.23
Mean y	0.2341
RMS x	44.47
RMS y	0.3965

difference azimuthal angle (deg.)

polar angle of photon (deg.)