Subject: Photon energy distribution using DPM
Posted by Ganesh Tambave on Wed, 28 Mar 2012 16:50:41 GMT
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Dear All,

I have tried to reproduce fig.3.2 (please find attached: EMCTDR_fig.3.2.png) shown in EMC TDR page no.33 using DPM event generator to estimate pile-up probabilites.
I have reproduced it for 15 GeV anti-proton (please find attached: dpm_photon_2D.png and it's y-projection for theta 5 to 21 deg.: dpm_photon_2D_y-proj.png).
If I compare both the figures then they don't look same, the photon energy distribution mean in my figure is about 1.5 GeV and in TDR fig. is about 200 MeV.
Can anyone help me to understand this difference?

I'm using only MC true information from DPM (no detector at all).

Regards,
Ganesh Tambave

File Attachments

1) EMCTDR_fig.3.2.png, downloaded 657 times

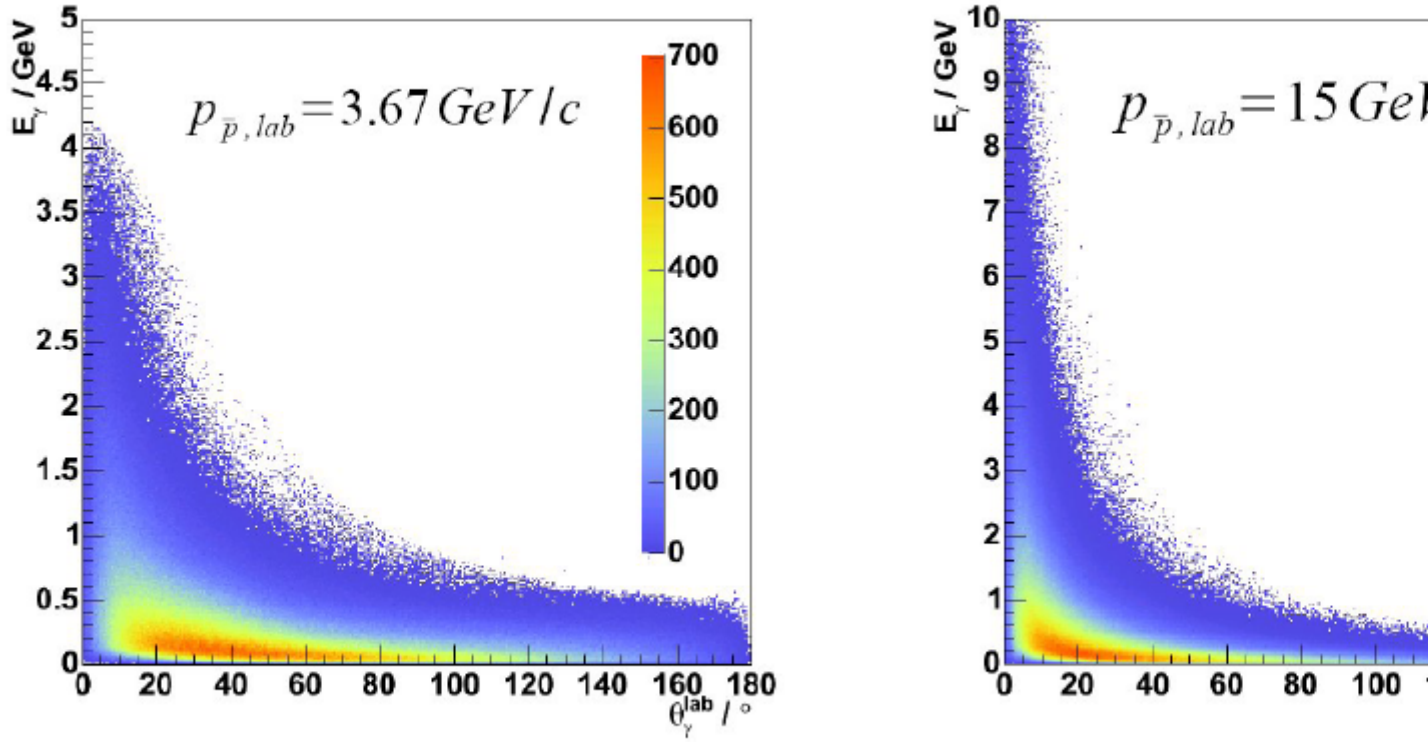
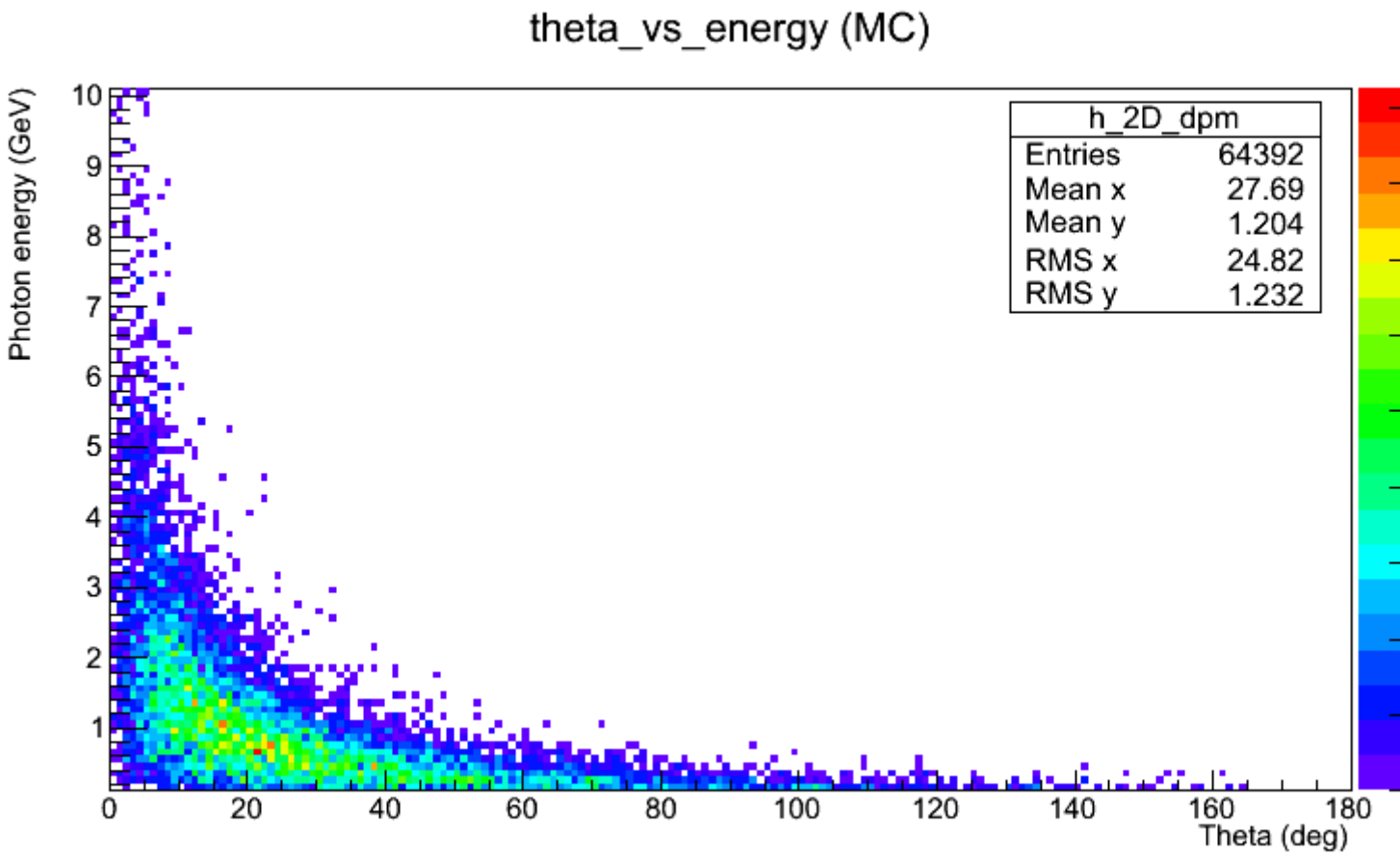


Figure 3.2: Photon energy distribution vs. lab. angle for two momentum set

2) dpm_photon_2D.png, downloaded 640 times



3) dpm_all_2D_y-proj.png, downloaded 631 times