Subject: Re: Energy correction for gammas
Posted by Dima Melnychuk on Sun, 30 Nov 2008 21:20:41 GMT
View Forum Message <> Reply to Message

Hi all,

I have an update to my previuos post.

The previous plots were shown for G3 simulation, but in case of G4 simulation the energy correction taken from Babar framework works better.

The barrel emc - 25-135 degree, 1 GeV gamma.

At least the mean value of corrected histogramm is at 1 GeV.

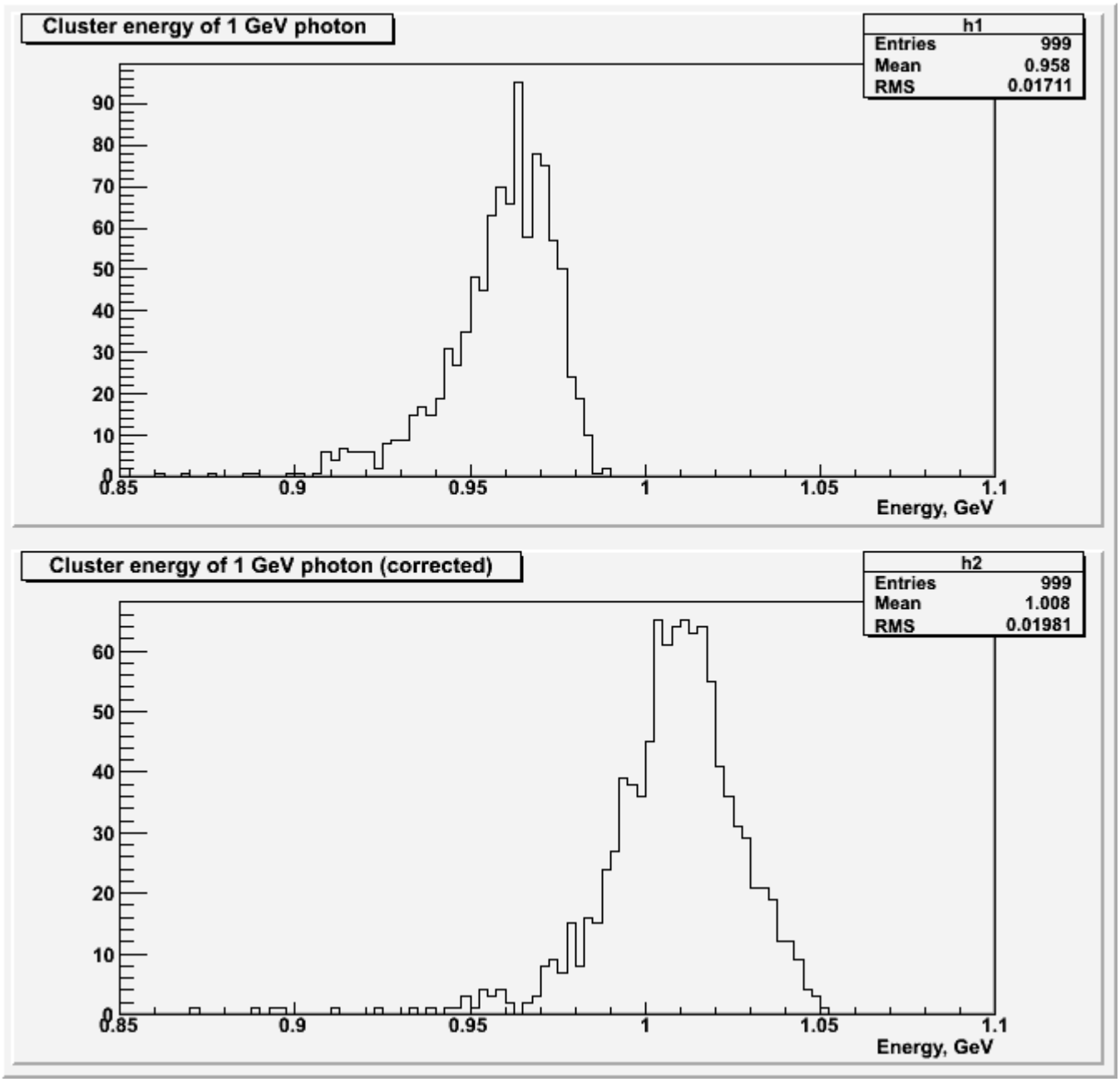
And shashlyk calorimeter, 0-5 degree, 1 GeV.

The match is not perfect but much closer than in G3 case.

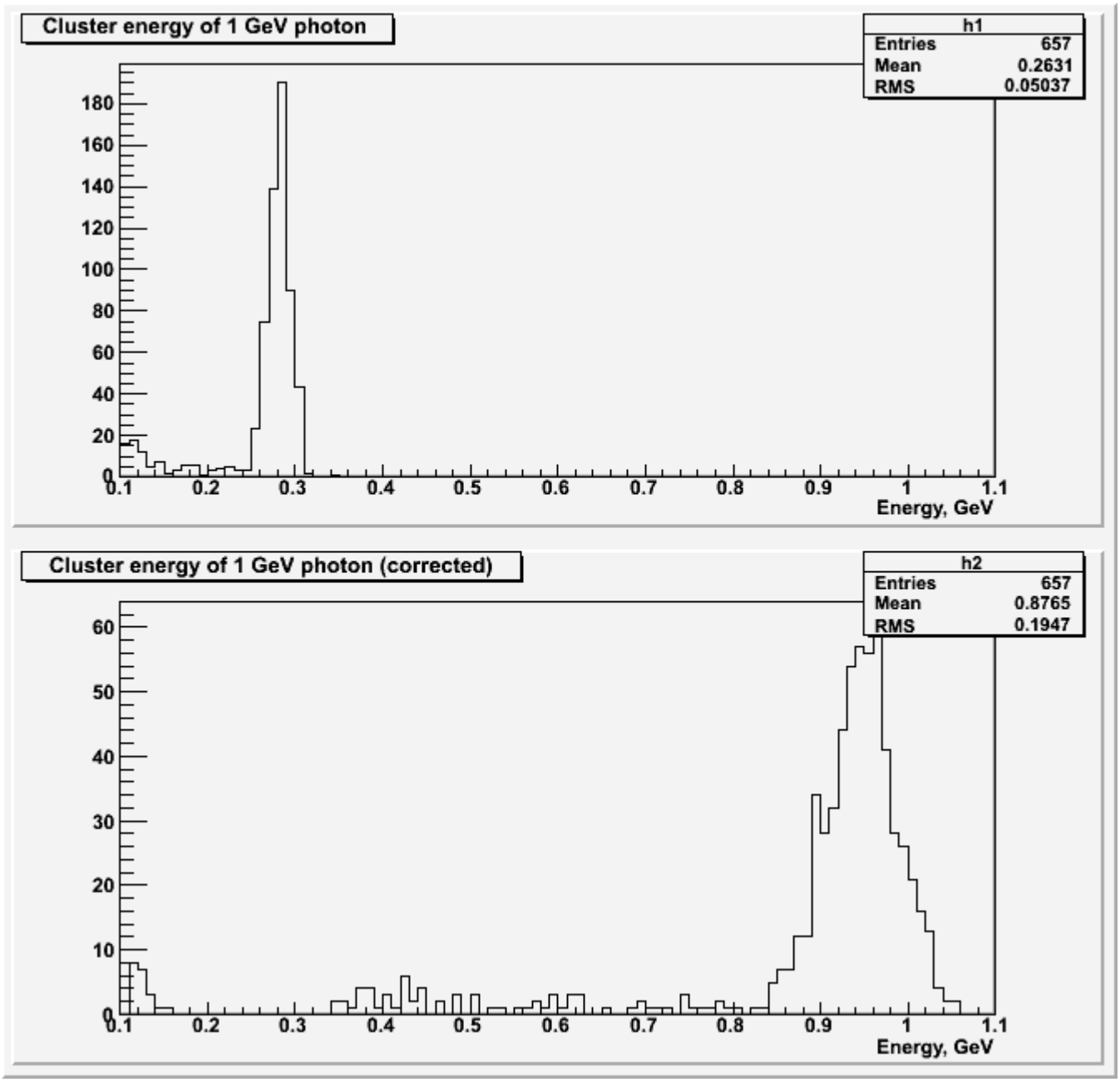
Best regards,
Dima

File Attachments

1) emc_energy_barel_g4.png, downloaded 1273 times



2) emc_energy_shashlyk_g4.png, downloaded 1344 times


Cluster energy of 1 GeV photon
h1
Entries 657
Mean 0.2631
RMS 0.05037
180
160
140
120
100
80
60
40
20
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
Energy, GeV
Cluster energy of 1 GeV photon (corrected)
h2
Entries 657
Mean 0.8765
RMS 0.1947
60
50
40
30
20
10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
Energy, GeV