Subject: Re: Bump splitting: new endcap vs. old endcap
Posted by Dima Melnychuk on Fri, 20 Feb 2009 15:32:04 GMT
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Hi all,

With the new changes, made by Ola in creation of emc forward endcap geometry, the bump splitting gives reasonable results.

For the 500 events 5 GeV pi0 generated in theta [10;20] degree an phi in range [0;360] degree.

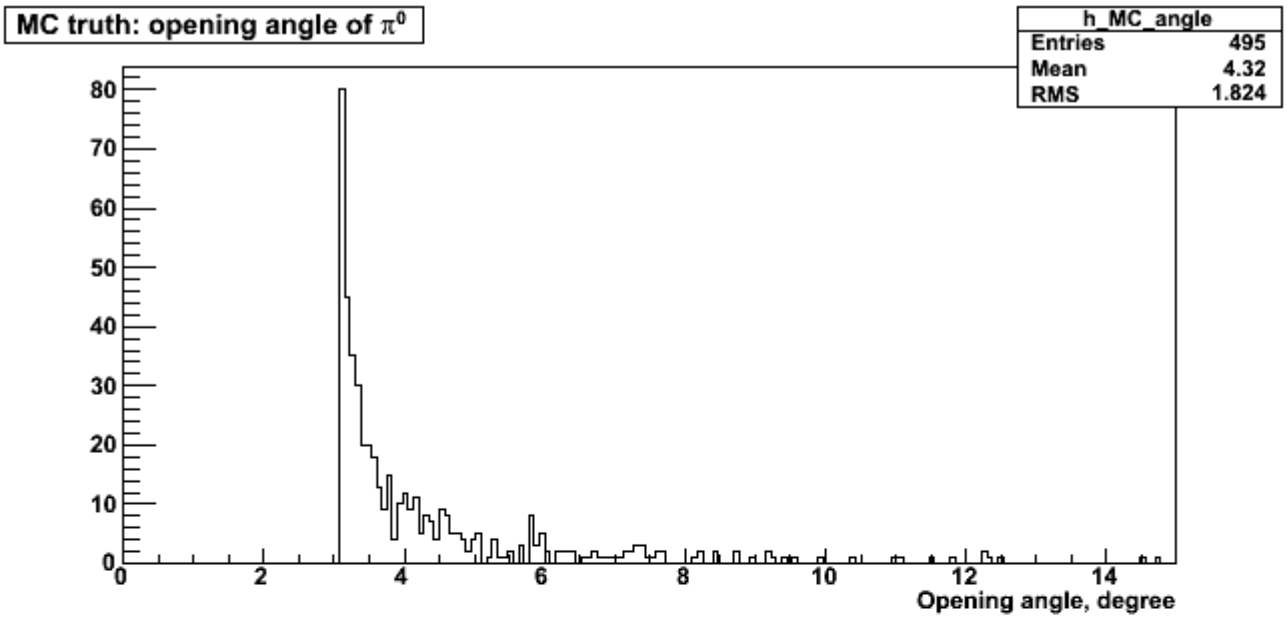
pi0 opening angle:

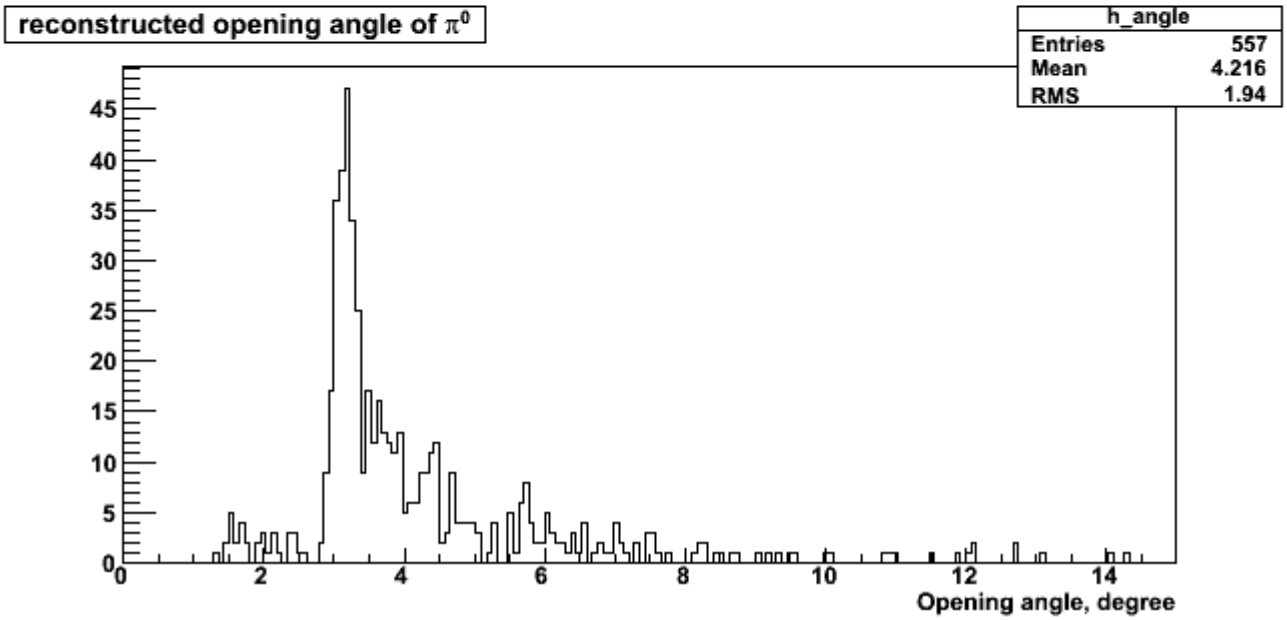
and reconstructed invariant mass:

Dima

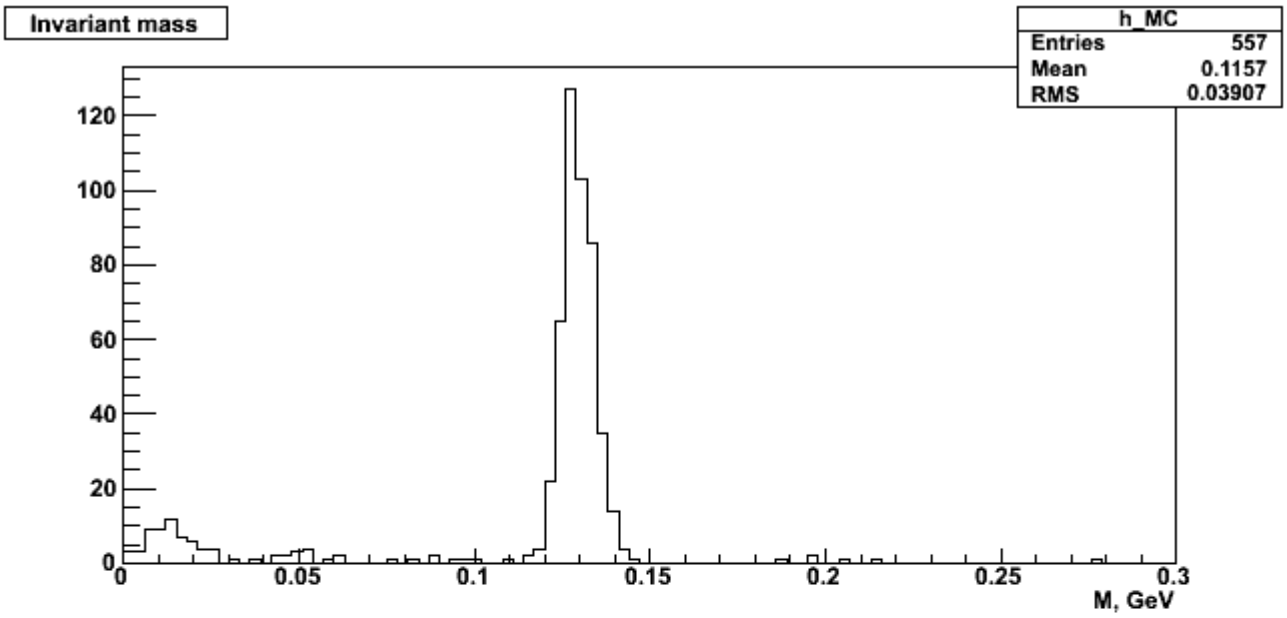
File Attachments

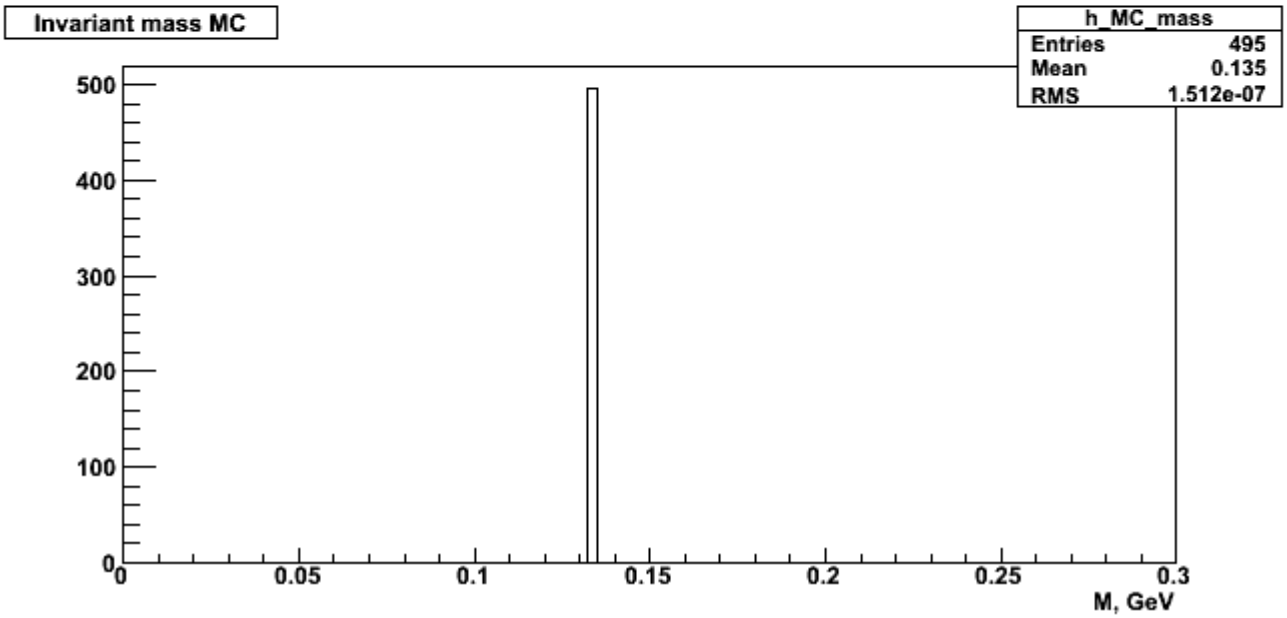
1) pi0_angle.png, downloaded 1431 times





2) pi0_mass.png, downloaded 1361 times


Invariant mass
h_MC
Entries 557
Mean 0.1157
RMS 0.03907
120
100
80
60
40
20
0
0
0.05
0.1
0.15
0.2
0.25
0.3
M, GeV


Invariant mass MC
h_MC_mass
Entries 495
Mean 0.135
RMS 1.512e-07
500
400
300
200
100
0
0
0.05
0.1
0.15
0.2
0.25
0.3
M, GeV