Subject: Re: Geant 3, Geant 4 VMC, native geant 4 comparison
Posted by Mohammad Al-Turany on Mon, 25 Feb 2008 20:26:25 GMT
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Hi all,

I tried to reproduce this problem, so I switched on only the emStandard list for G4 in the VMC which correspond to the PhysListEmStandard.cc used in native G4, i.e:

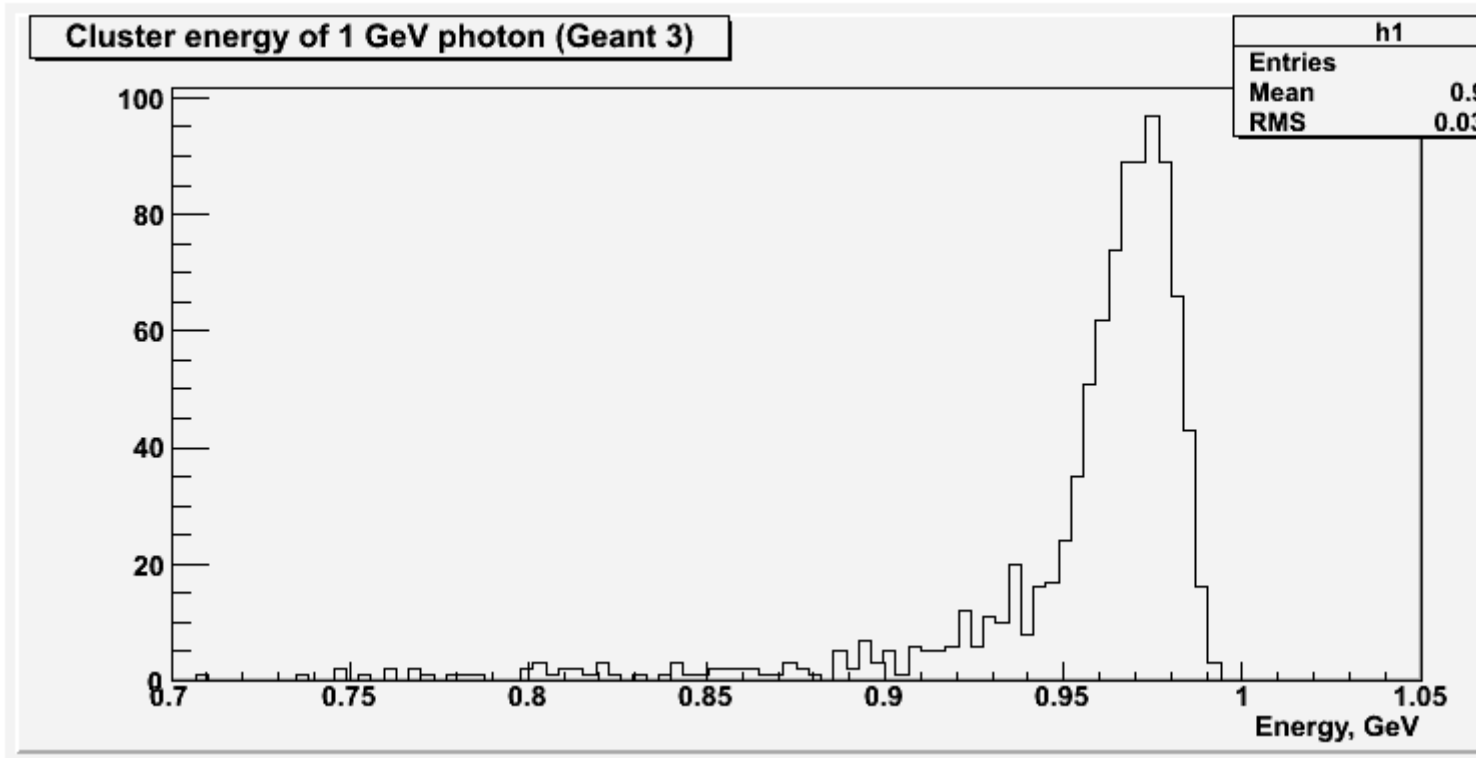
```
Config()
{
....
TG4RunConfiguration* runConfiguration
        = new TG4RunConfiguration("geomRoot", "emStandard");
...
}
```

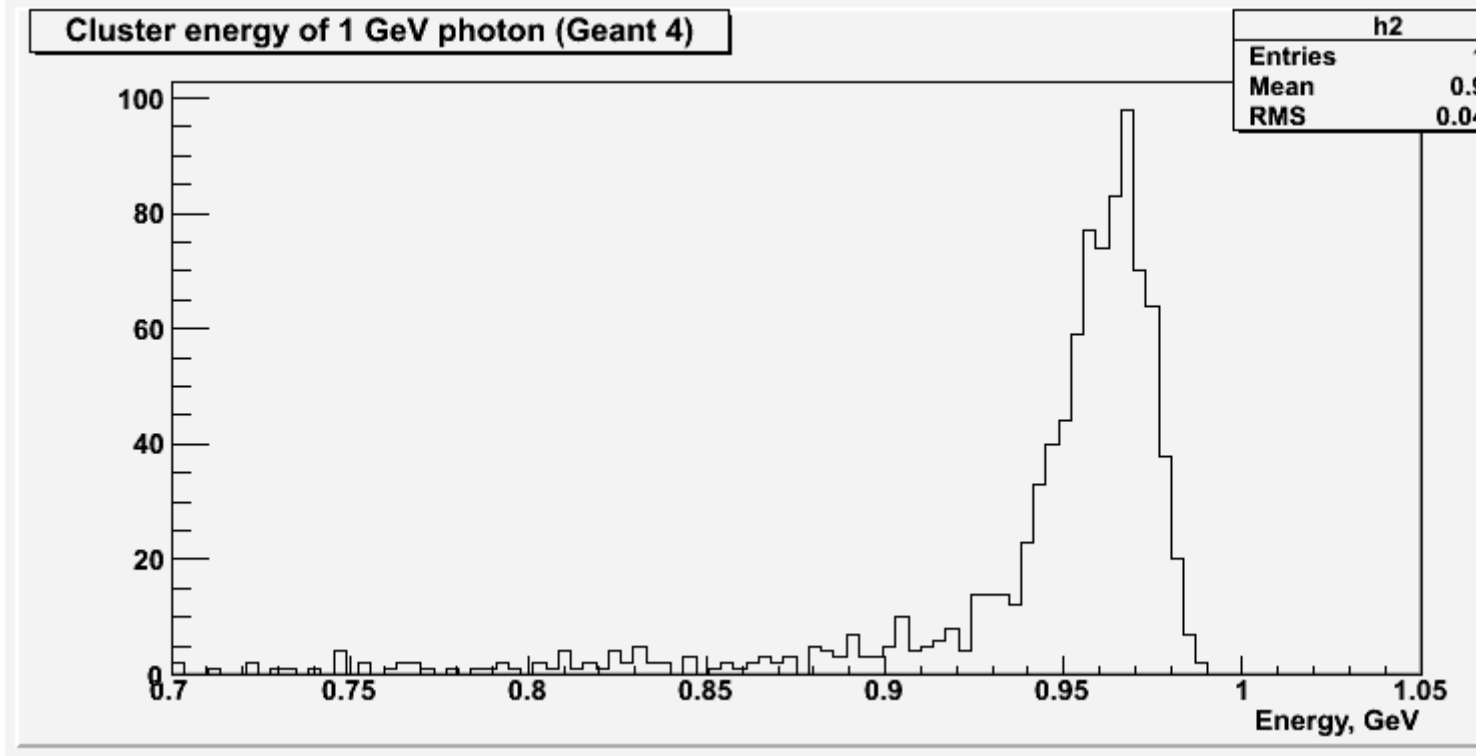
The result was as you can see in the attached figures some how acceptable!! So it seems that all the problem comes from the combination of the physics lists in VMC. So we need to investigate further what is going on here!

and drawing both over each other (G4 in red)

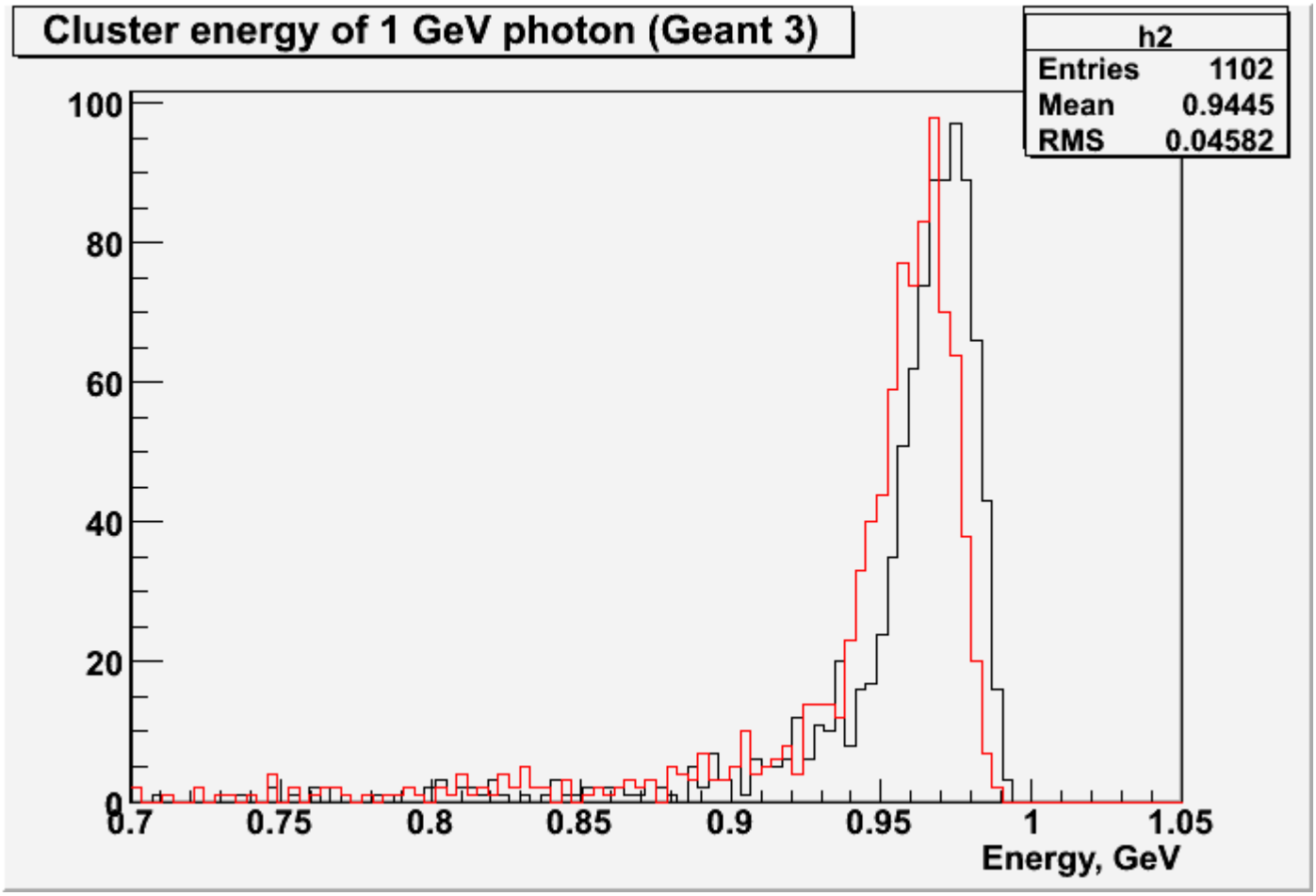
File Attachments

1) g3_g4.gif, downloaded 1855 times





2) g3_g4_overlap.gif, downloaded 1915 times


Cluster energy of 1 GeV photon (Geant 3)
h2
Entries 1102
Mean 0.9445
RMS 0.04582
100
80
60
40
20
0
0.7
0.75
0.8
0.85
0.9
0.95
1
1.05
Energy, GeV