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Subject: Re: Geant3 tracking cuts for the EMC  
Posted by [Stefano Spataro](#) on Fri, 16 Oct 2009 13:10:07 GMT  
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Hello,

I am not surprised about the energy difference, but I am much more surprised about the crystal multiplicity. I mean, after digitization and the cut in energy of each single crystal, the numbers should converge.

About the "tuned cuts" , one needs real experimental data to understand what is good for simulation... still too early, we cannot do yet geant validation (or at least, not from the data sets I have seen, and without passive materials).

Maybe you could try to see the difference between G4 without cuts, G4 with 1 MeV cut and G3 with cut, to evaluate the systematic error within simulation. However, this should affect only shower shape analysis (and pi0 recognition for different digi mult), not the energy response (hopefully).