Subject: Re: Official code for tracking TDR
Posted by Gianluigi Boca on Thu, 21 Apr 2011 13:42:04 GMT
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Stefano Spataro wrote on Thu, 21 April 2011 15:25Gianluigi Boca wrote on Thu, 21 April 2011 15:18
I am not sure what you mean by correct association,

I mean if the task knows exactly how many events/hits should be taken from the DPM background file, if this number is fixed or if it depends from the rate you set by hands, and if the task should correct the rate for the theta_min, or if this should be done by something else.

to answer your questions :

1) the reco tasks knows how many event of bkg mix to a physics event. That number is NOT fixed, and it is based on a 20 MHz interaction rate, value that is presently HARDCODED. I can easily modify the code in order
to have some external parameter for the interaction rate.

2) The STT mixing code at some point HAS TO TAKE INTO ACCOUNT
THE N. OF BACKGROUND EVENTS 'invisible' so to speak, to the
STT (and TPC) apparatus. Presently in the code THERE IS NOT
THIS FEATURE but it is very easy to add it.
As you know the issue of how many 'invisible' background events are there in Panda and what is the Theta_min angle for the DPM bkg generation has been solved in principle by a discussion with Aida during the last March meeting, and Bernd Ketzer is supposed to send out a brief written summary. In the summary there will be also the Theta_min value and the percentage of 'invisible' background.

FROM THE GRID POINT OF YOU, you need to know only the Theta_min value because STT MIXING CODE WILL TAKE INTO ACCOUNT THE INVIIBLE BKG.

Cheers
Gianluigi