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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 15:25 Gianluigi 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

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