Subject: Problem in implementation of EmcDigitalization
Posted by Vanniarajan Suyam Jothi on Tue, 18 Dec 2007 16:50:58 GMT
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I have observed a problem in the implementation of the PndEmcHitsToWaveform. It is making use of the PndEmcWaveform in the lines 126 and line 154.
     At line 126, it has constructor of PndEmcWaveform with a default value "false" for the use_noise_factor.
     At line 154, it does not have use_photon_statistic in the parameter list, in which case the compiler takes the default value "true" from the constructor of PndEmcWaveform.

     In both the cases the flag for photon statistic put by the user makes no sense in the simulation. I think this is a bug, which has to be corrected.

regards,
Vanni

Subject: Re: Problem in implementation of EmcDigitalization
Posted by Dima Melnychuk on Tue, 18 Dec 2007 17:58:04 GMT
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Hi Vanni,

First of all, at the line 126 the value of Use_photon_statistic is "false" with the purpose, since here waveform is created to determine scale for conversion between waveform height and energy. And photon statistics shouldn't affect the scale, (and even if it does, it is the matter of the following calibration, which is not implemented yet).
Concerning line 154, I have corrected it (rev. 1979).

Best regards,

Dima

Subject: Re: Problem in implementation of EmcDigitalization
Posted by Vanniarajan Suyam Jothi on Mon, 28 Jan 2008 13:46:07 GMT
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Hi Dima,
     Thanks for the reply, I have looked at the EMC WAve form
it stores the parameters used for the reconstruction.
     i have put the use photon statistic off in the par file, and looked at the UsePhoton statistic parameter in the wave form it is on.
     I donot understand why the data in the par file is not reflected in the wave form.

regards,
Vanni