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Subject: Re: gphysi.dat

Posted by [Stefano Spataro](#) on Mon, 09 Jul 2018 12:47:45 GMT

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The gphysi.dat is providing the Geant3 parameters which were used in the simulation, then IPAIR=0 means there is no pair production,

BUT

you are using geant4 simulation, which does not produce any .dat file. In your case, for reconstruction you use geane for track extrapolation (genfit, pid package), which is a sort of geant3 simulation which has only the electromagnetic part to consider energy loss, no pair production, no decays, no hadronic interaction and so on. This is what you are reading in the .dat file, most probably a Geane constructor is called and the .dat file is created.

Try to do a short geant3 simulation and check if the parameters are changed, they should be. Then, the final answer is: all those zeros are correct.

How they are set? Check gconfig folder. SetCuts.C shows the default parameters for simulation, Geane.C are the parameters for Geane. You can edit them without need of recompilation, but afterwards set them at the original values, if not your sim will be screwed.

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