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Subject: Re: Vertex Fitter in Fast simulation

Posted by [Elisabetta Prencipe \(2\)](#) on Thu, 03 Apr 2014 10:48:00 GMT

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Hi Donghee,

thank you for your reply.

Actually my question is not how to address the vertex fitter(s) in the full simulation macro: there I have, and it works.

Different vtx fitters give different mass resolutions. As well as I understood (but I may be wrong) the sense of performing the fast simulation campaign and repeat what we already set up in the release jan14 (with full simulation) is to check differences in efficiency and resolution, so we can decide if the fast simulation is compatible with what we already did with full simulation. Right now I am repeating my simulations (full- and fast-) in the new release. In the case of positive answer from the fast simulation tests, it will be easier to try and check the 4 detector setups proposed in one of the previous computing meeting, using the fast simulation only.

If PANDA likes the comparison in this way, then I go ahead.

My concern now is which vtx fitter is used by default in the fast simulation. In the case of my analysis, it depends which one is used, results can change in a sensitive way. So, what shall I compare, and with what?

My next post will be in the proper forum dedicated to the fast simulation.

cheers, Elisabetta

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