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Subject: Re: Update on eta\_c reconstruction with STT and TPC  
Posted by [Dima Melnychuk](#) on Thu, 28 Jul 2011 22:36:57 GMT  
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Hi Stefano,

I also would like to clarify the question of data production on GRID.

But coming to TPC vs STT efficiency.

TPC efficiency = 28.9% (using vertex fit)

STT efficiency with GRID data = 26.4% with all tracks and 23.7% with requirement of at least one STT hit in track.

STT efficiency with latest trunk version (2000 events) = 15.6%

(with requirement of at least one STT hit).

But I have no idea if the work on STT code is finished?

So I suppose that STT signal data should also be reproduced but the question is if to reproduce them together with TPC or later?

For TPC data reproduction in addition to tpc directory, genfit and RKTrackRep in GenfitTools/trackrep should be updated to rev 370 and updated tpc reco macros should be used.

And coming to the question of reconstruction of fully mixed events. I do not know how realistic is to expect to produce them by 5-7 August (the date when the GRID will be off), but without knowing when the code will be ready, there is still the question if the available DPM data should be used or they also need to be reproduced. At least for TPC there were recent modifications related to clustering, which is the part of digitization, and I suppose TPC expert should define how important they are for DPM data which will be used for mixing.

Dima

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