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Subject: Re: Vertex Fitter in Fast simulation

Posted by [Malte Albrecht](#) on Sat, 19 Apr 2014 12:15:08 GMT

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Hi Stefano!

Yes, actually I tried exactly the same in PndFastSim.cxx and I saw that the momentum errors are all set to zero in the covariance matrix, but I did not proceed to the EMC-classes, where you set the dp() correctly now...

OK, I checked out the most recent version and 4C- as well as mass constraint fit are running. Good thing is: When using a mass constraint for e.g. the eta in my channel, I get a needle at the eta-mass (as expected). But the chi2 values are all extremely small (also for 4C-Fit!), which results in a probability of  $\sim 0$ . The pull-distribution is also a needle at 0 (sigma is much too small), so I guess we need to tune the errors a bit?

Best regards and thanks for your efforts!

Malte

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