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Subject: Re: Vertex Fitter in Fast simulation

Posted by [Malte Albrecht](#) on Tue, 15 Apr 2014 22:05:47 GMT

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Hi!

I tried to perform 4C- as well as MassConstraint Fits in the fast sim. Using the PndKinFitter, as in Klaus' FastSim example works fine.

The MassConstraintFit does however not work... I tried the following:

```
PndKinFitter etaFit(etaCand);
etaFit.AddMassConstraint(0.547862);
etaFit.Fit();
```

etaCand in this example is a RhoCandidate\* composed of two gammas.

The Fit always gives me:

Error in <TDecompLU::DecomposeLUCrout>: matrix is singular

Error in <TDecompLU::InvertLU>: matrix is singular, 0 diag elements < tolerance of 2.2204e-16

chi2 is always zero, and it seems the fit does not do anything...

Is it correct to use the PndKinFitter in that way? Whats going wrong here?

Thanks!

Best regards,

Malte

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