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Subject: [FIXED] Problem with PndVertexFitter for particles with neutral charge  
Posted by [Jennifer Pütz](#) on Fri, 29 May 2015 08:44:07 GMT

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Hi everyone,

anti-lambda0 decays into an anti-proton and a pi+.

If I combine the proton and the pi- to the lambda0 the vertex fitter is working fine. Same for the antilambda0. But when I combine lambda0 and pi- to Xi- the vertex fitter does not work.

The vertex fitter is working fine for combining proton and pi- to lambda0. But if I combine lambda0 and anti-lambda0 to the pbar p system, here again the vertex fitter does not work.

I checked the 4-Mom-Constraint Fitter and it is working.

Is there already a solution for this problem?

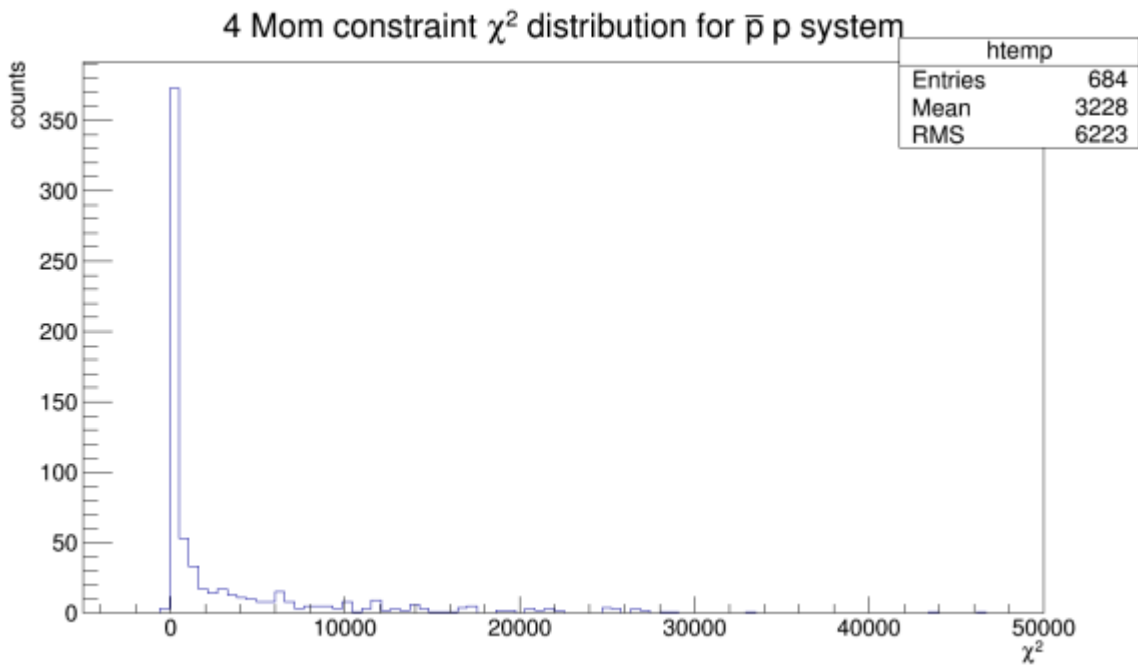
I'm using on my system:

Fairsoft Version: March 15  
FairRoot: Master  
PandaRoot: Trunk Rev. 27718

Best  
Jenny

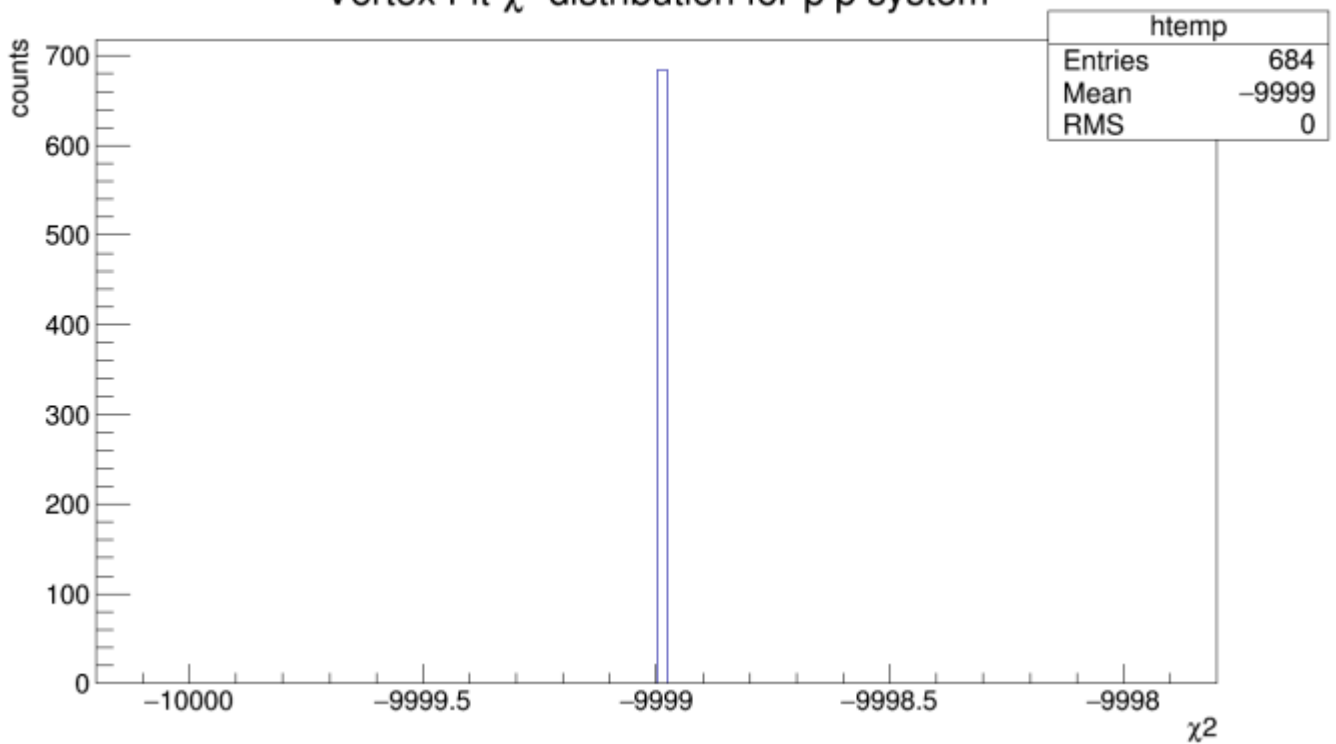
#### File Attachments

1) [4CFit\\_chi2.png](#), downloaded 635 times



2) [VertexFit\\_chi2.png](#), downloaded 701 times

Vertex Fit  $\chi^2$  distribution for  $\bar{p}$  p system



3) [4CFit\\_prob.png](#), downloaded 702 times

### 4-Mom constraint probability for $\bar{p}$ p system

