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Subject: Re: Small positive chi2 values in PndKinFitter  
Posted by [Lu Cao](#) on Mon, 27 May 2013 11:14:04 GMT

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Hi,

In the simulation of  $Ds^- \rightarrow K^+ K^- \pi^-$ , I found the chi2 values are too small in the mass constraint fitting of  $Ds$  meson, as that in the  $Ds^+$  ( $\eta, e^+, \nu_e$ ) case I mentioned before. And it seems impossible to filter out the background completely with chi2 cutting to get a delta function shaped histo for the  $Ds$  mass.

If the problem related the fitter can not be solved at this moment, how can I improve the selection in the present situation?

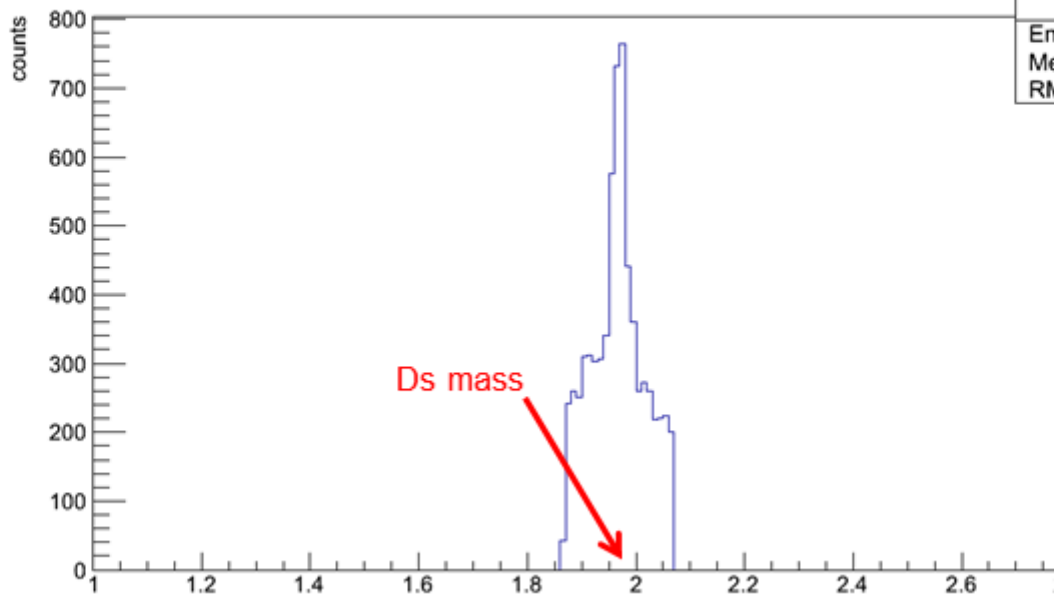
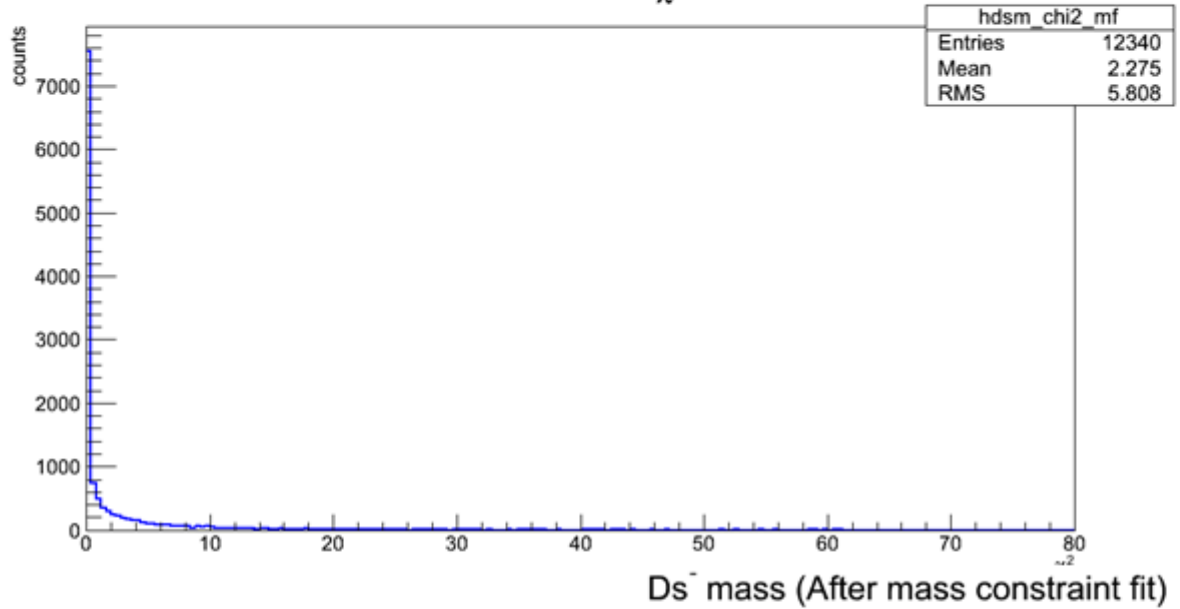
### File Attachments

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1) [Ds\\_mcf.png](#), downloaded 1111 times

# Reconstruction: $D_s^- \rightarrow K^+ K^- \pi^-$

Mass constraint fit  $\chi^2$  of  $D_s^-$



2013/5/27