
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 $D_s^- \rightarrow K^+ K^- \pi^-$, I found the chi2 values are too small in the mass constraint fitting of D_s meson, as that in the D_s^+ (η, e^+, ν_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 D_s mass.

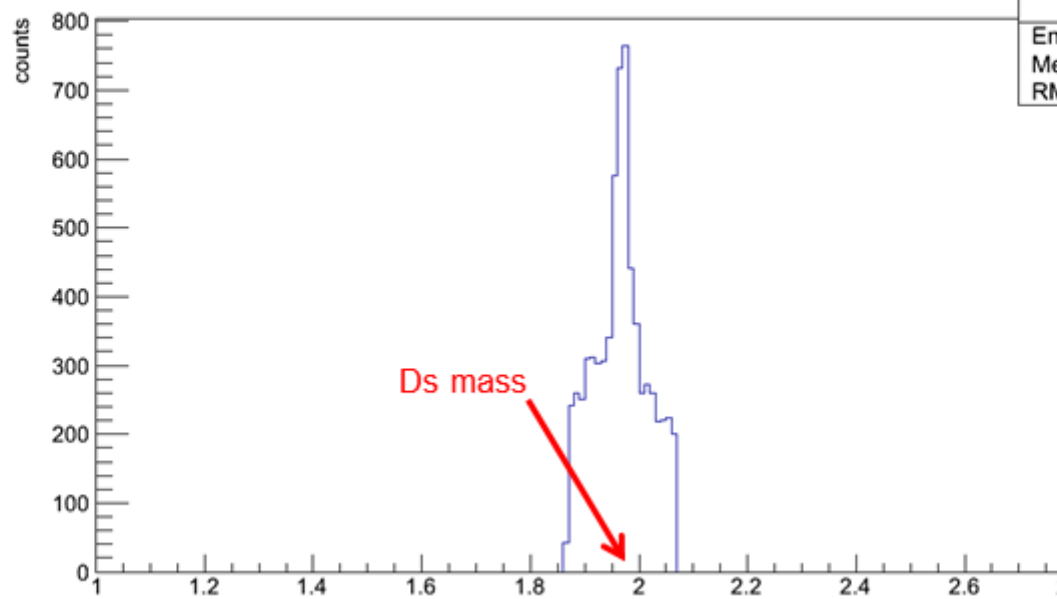
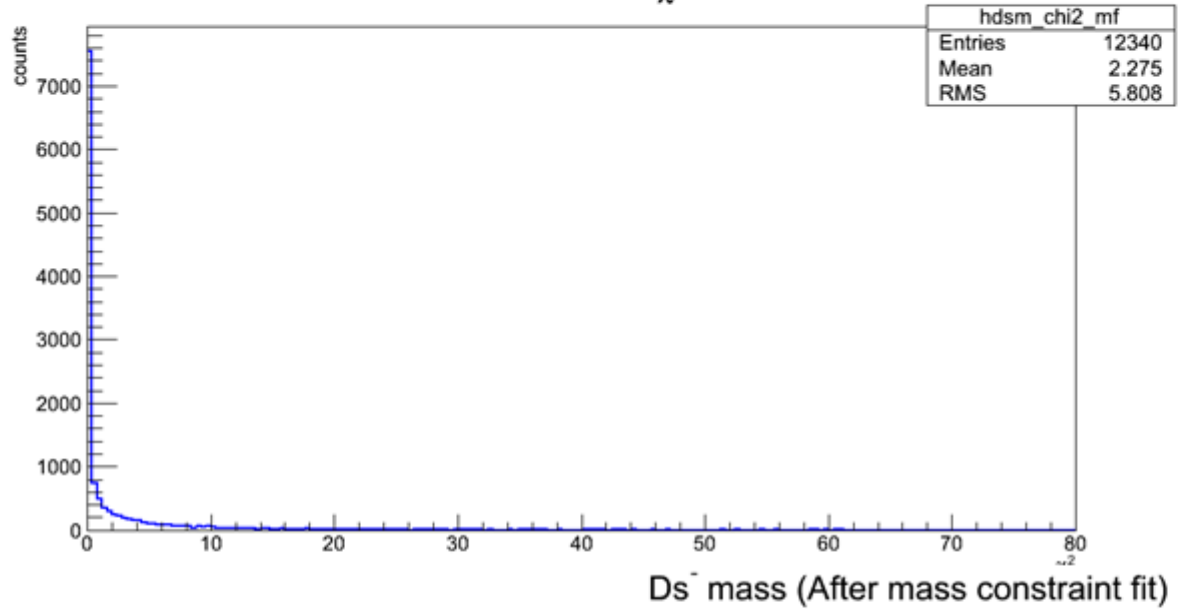
If the problem related the fitter can not be solved at this moment, how can I improve the selection in the present situation?

File Attachments

1) [Ds_mcf.png](#), downloaded 893 times

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

Mass constraint fit χ^2 of D_s^-



2013/5/27