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Subject: Re: One question about tracking efficiency  
Posted by [Yutie Liang](#) on Thu, 22 Apr 2010 17:40:34 GMT  
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1. I checked MCTracks, and about 30% events passed the cut for all the 6 particles with  $\theta > 10^\circ$  and  $p > 0.2\text{GeV}$ .

If simply take this into account, the total efficiency will be  $6\% / 30\% = 20\%$ .

I will try to only simulate those events which could pass the theta and momentum cut.

2.

In fact, I didn't update PndEvtGenGenerator in the way you think of.

I don't know how to update. So I just modify the file

PndEvtGenGenerator comparing with your modification. (cm->mm)

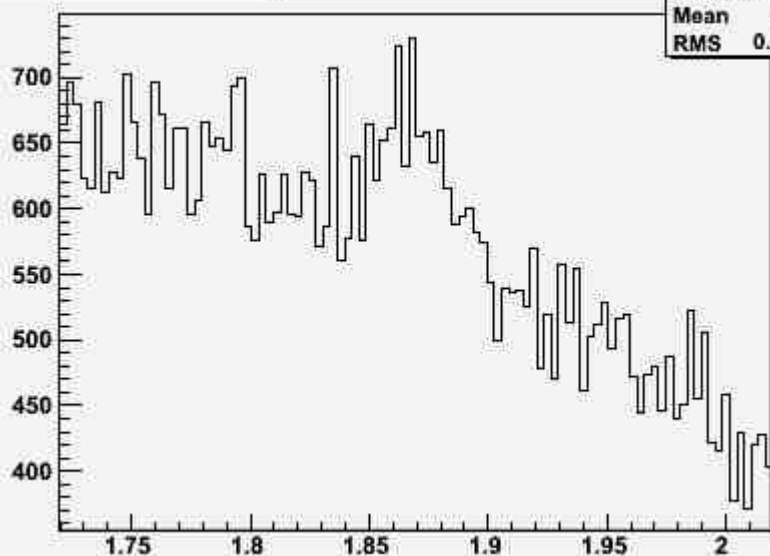
If I don't use Pid, there will be too many combinations. Especially there are more than 6 reconstructed tracks for most of events. I can barely see the  $\psi(3770)$  peak.

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### File Attachments

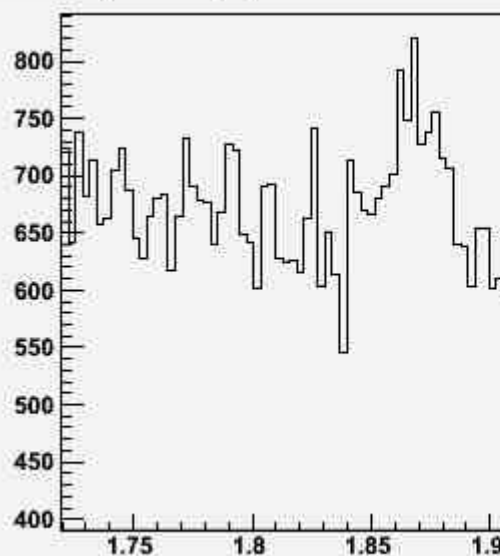
1) [c1.jpg](#), downloaded 973 times

D+:  $m(K^- \pi^+ \pi^+)$

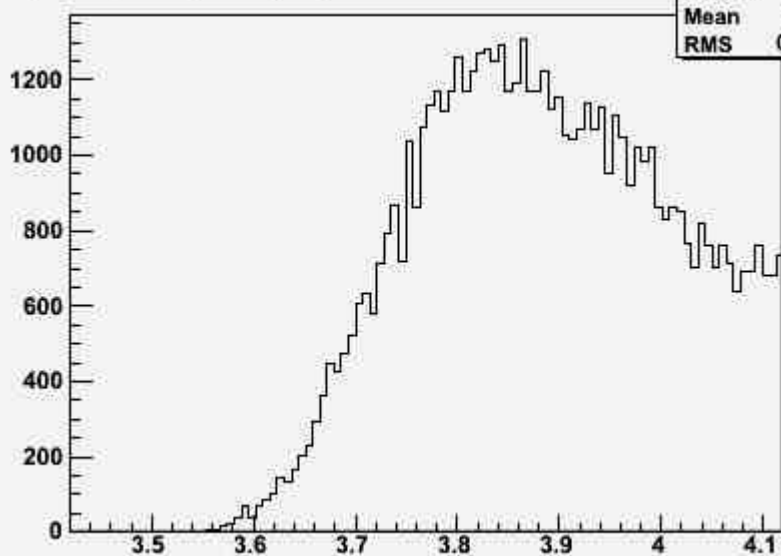


m1	
Entries	363428
Mean	1.859
RMS	0.08416

D-:  $m(K^+ \pi^- \pi^-)$



$\psi$  3770:  $m(D^+ D^-)$



m3	
Entries	97600
Mean	3.885
RMS	0.1222