Subject: Re: One question about tracking efficiency
Posted by Yutie Liang on Thu, 22 Apr 2010 17:40:34 GMT
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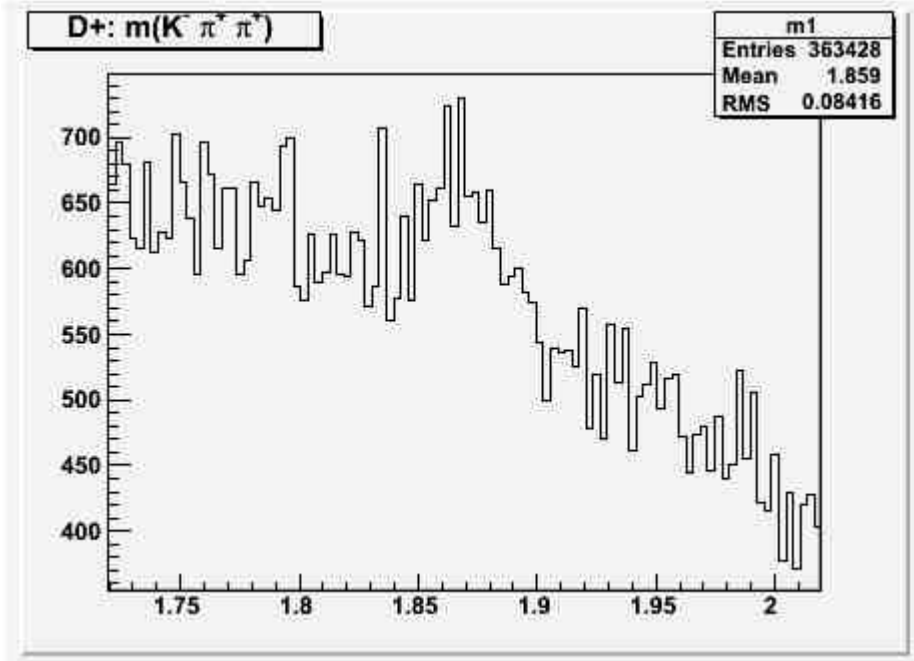
1. I checked MCTracks, and about 30% events passed the cut for all the 6 particles with theta > 10* and p > 0.2GeV.
If simply take this into account, the total efficiency will be 6% / 30% = 20%.
I will try to only simulate those events which could pass the theta and momentum cut.

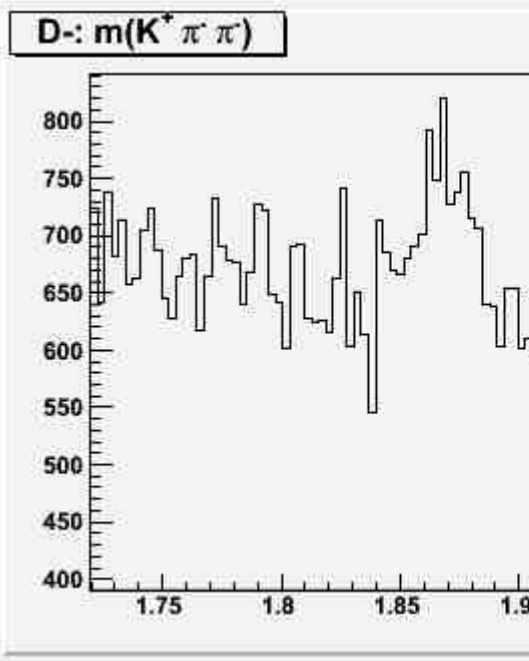
2.
In fact, I didn't update PndEvtGenGenerator in the way you think of.
I don't know how to update. So I just modify the file
PndEvtGenGenerator comparing with your modification. (cm->mm)

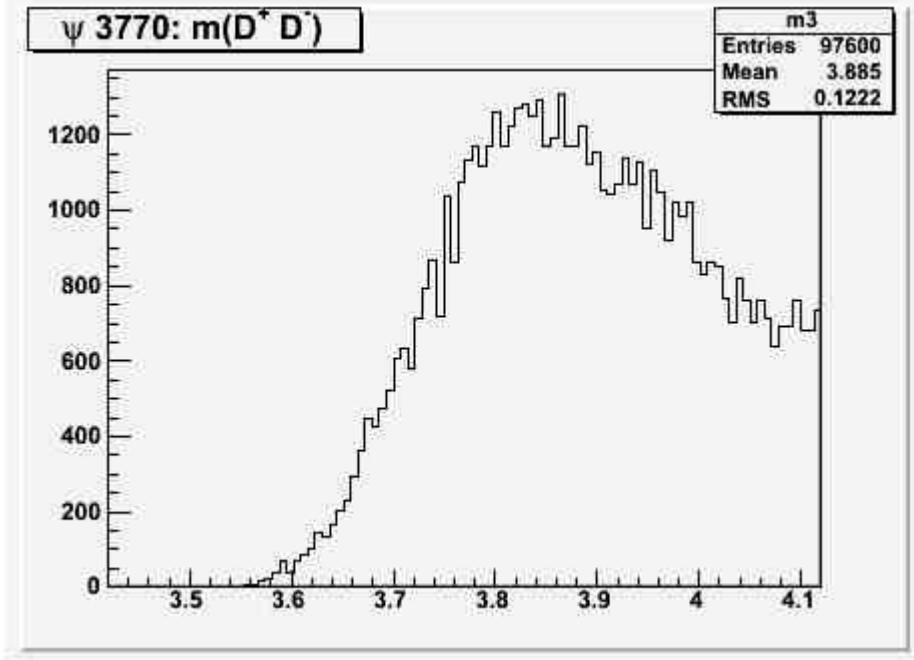
If I don't use Pid, there will be too many combinations. Especially there are more than 6 reconstructed tracks for most of events. I can barely see the psi3770 peak.

File Attachments

1) c1.jpg, downloaded 2006 times


D+: m(K⁻ π⁺ π⁺)
m1
Entries 363428
Mean 1.859
RMS 0.08416
700
650
600
550
500
450
400
1.75
1.8
1.85
1.9
1.95
2


D-: m(K⁺ π⁻ π⁻)
800
750
700
650
600
550
500
450
400
1.75
1.8
1.85


ψ 3770: m(D⁺ D⁻)
m3
Entries 97600
Mean 3.885
RMS 0.1222
1200
1000
800
600
400
200
0
3.5
3.6
3.7
3.8
3.9
4
4.1