Dear all,

I met one problem when I use the PandaRoot to do one simple study. The decay chain of my study is: Psi(3770) -> D+ D- ->(k- pi+ pi+)(k+ pi- pi-)
I simulated 10k signals, but only 300~400 events survived.
I think this efficiency is too low.

The following is the detailed infomation of one event from generator. TrackIDs of (k-, pi+, pi+, k+, pi-, pi-) are always (0,1,2,3,4,5). So, I use this trackID as PID in this study.

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0     9
 N    Id Ist  M1  M2  DF  DL    px     py     pz     E     t     x     y     z
 0   40443  2  -1  -1   1   2 0.00000000 -0.00000000 6.57879835 7.58363969 0.00000000
0.00000000 0.00000000 0.00000
000
 1    411  2   0   0   3   5 -0.02342460 -0.12417095 3.72753839 4.17190509 0.00000000
0.00000000 -0.00000000 0.000
00000
 2   -411  2   0   0   6   8 0.02342460 0.12417095 2.85125996 3.41173460 0.00000000
0.00000000 -0.00000000 0.00000
000
 3   -321  1   1   1  -1  -1 -0.41376210 0.45311777 0.95670547 1.23916104 6.38056669
-0.03582590 -0.18990870 5.700
94639
 4    211  1   1   1  -1  -1 0.25929310 -0.57261601 2.59179905 2.67058498 6.38056669
-0.03582590 -0.18990870 5.700
94639
 5    211  1   1   1  -1  -1 0.13104440 -0.00467271 0.17903387 0.26215907 6.38056669
-0.03582590 -0.18990870 5.700
94639
 6    321  1   2   2  -1  -1 0.01936009 -0.00991458 0.09054525 0.50238581 1.18131702
0.00811080 0.04299434 0.98725
203
 7   -211  1   2   2  -1  -1 0.24342156 0.42046406 1.79061469 1.86059797 1.18131702
0.00811080 0.04299434 0.987252
03
 8   -211  1   2   2  -1  -1 -0.23935704 -0.28637852 0.97010002 1.04875082 1.18131702
0.00811080 0.04299434 0.9872
5203
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I checked, and found that the tracking efficiency of (k-, pi+, pi+, k+, pi-, pi-) is only about 50~60%, when MC trackID' match is required. this low efficiency of each track could explain the low efficiency of this channel.
but, when I did single track study, the tracking efficiency of pi+ with MCtrackID match is close to 80%. This is also low, but still acceptable considering McID match.

It seems that when there are multiple tracks, 6 in my case, the tracking efficiency will become worse. Is this the problem?
I hope that's only one bug of my analysis.

Thanks

yutie