Subject: Decay analysis
Posted by Alexandros on Thu, 13 Mar 2014 17:38:07 GMT
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Hi all,

So I am new to panda and I am trying to perform some simulations..

I have tried to follow the example rho analysis to have my first results..
Some of the results are ok but I have several problems..
First: why is the efficiency for psi(4160) so low???less than 20%...Is it normal or do i have mistakes in my code??
Second: for each event I don't get one D0 and one antid0...there are some(not so few) events that give 2 or 3 D0's and some other events 2 or 3 antiD0's...I suppose this is not normal right???I should get one D0 per event..
Third: How does this McTruth work exactly???I have tried some things for D0's, antiD0's and psi(4160) but nothing seems to work...I also tried to follow the way that the mctruth is shown in the slides from Klaus in PANDA Computing Workshop 2012 Torino but it didnt work either..
Can you tell me what is going wrong???
I will also attach my code to have a look...
For the simulation I use the tut_sim.C where I put in the evtgendirect my decay file as input...
The decay file is called psi4160.dec...
The analysis file is called psi4160.....Analysis.C and the drawin part is called psi4160.....DrawPlots.C

I am looking forward for your answers....
Thank you guys and girls for your time

File Attachments

1) psi4160.dec, downloaded 450 times
2) psi4160at15GevMomentum1000eventsAnalysis.C, downloaded 546 times
3) psi4160at15GevMomentum1000eventsDrawPlots.C, downloaded 449 times