

Hi,

I tried with your new code, which I saw the conversion of cm/mm.  
It does improve my result, but not very much.

I only tested with 200 events, and got 12 signals. I will test with more statistic later.  
The total efficiency of this channel ~ 6%, is better than the former 3-4%. It's still too low.

I think there could be some other problems.

I listed the tracks info of several events.

To survive the analysis program, the MctrackID should contain 0,1,2,3,4,5 at least. In the following, only event 194 passed this, but failed the mass cut.

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event: 194  
mom: (-0.276957, 0.489483, 1.41229) MctrackID: 4  
mom: (0.547624, -0.518, 1.18875) MctrackID: 3  
mom: (4.74344, 1.18262, 3.54849) MctrackID: 2  
mom: (1.73905, 0.298494, 2.67836) MctrackID: 2  
mom: (-0.890036, -0.0107261, 1.80312) MctrackID: 1  
mom: (-0.100752, -0.205479, 0.654262) MctrackID: 5  
mom: (-0.127335, -0.0098834, 0.799576) MctrackID: 0  
mass of dp: 5.29566  
mass of dm: 3.10414  
mass of dm: 1.78799  
dp: 0 dm: 1  
event: 195  
mom: (-0.714914, -0.0269411, 0.979918) MctrackID: 4  
mom: (0.779887, -0.125705, 1.85668) MctrackID: 3  
mom: (0.259352, 0.166287, 1.226) MctrackID: 2  
mom: (0.397058, -0.224433, 0.460777) MctrackID: 0  
mom: (-0.0066277, -0.179322, 0.835163) MctrackID: 1  
event: 196  
mom: (0.757172, 0.107102, 1.45513) MctrackID: 5  
mom: (-0.269729, -0.0472028, 0.835738) MctrackID: 4  
mom: (-0.0532711, -0.646725, 1.03129) MctrackID: 0  
mom: (1.77291, 2.69191, 3.89288) MctrackID: 2  
mom: (0.625281, 0.877034, 0.994429) MctrackID: 2  
mom: (-2.25023, -0.892301, 1.50073) MctrackID: 2  
mom: (0.298023, 0.639753, 1.01819) MctrackID: 2  
mom: (-0.176344, 0.110833, 0.639549) MctrackID: 4  
mom: (-0.100674, -0.0839868, 0.826197) MctrackID: 1  
event: 197  
mom: (0.366878, -0.291604, 1.02965) MctrackID: 5  
mom: (-0.346555, 0.366326, 0.323261) MctrackID: 4  
mom: (0.0505044, -0.0861833, 0.401847) MctrackID: 1  
mom: (5.3789, -1.86377, 11.1783) MctrackID: -1  
event: 198

mom: (-0.346544, 0.413518, 1.98112) MctrackID: 3  
mom: (0.0704105, -0.270733, 0.279589) MctrackID: 4  
mom: (1.74562, 0.732808, 5.13812) MctrackID: 2  
event: 199  
mom: (-0.186931, -0.370772, 0.620371) MctrackID: 4  
mom: (0.232215, -0.590434, 1.37189) MctrackID: 0  
mom: (0.386676, 5.02008, 2.315) MctrackID: 5  
event: 200  
mom: (0.569166, 0.378718, 1.23879) MctrackID: 5  
mom: (-0.406435, -0.291732, 1.41973) MctrackID: 4  
mom: (-76.9758, -12.678, 384.064) MctrackID: 0  
mom: (0.274015, 1.52483, 0.010232) MctrackID: 2  
mom: (-0.126436, -0.296277, 0.736622) MctrackID: 3  
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regards

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