Subject: Finding true vertex position of mother particles. Posted by donghee on Mon, 20 Jun 2011 20:49:56 GMT

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Hi pandausers,

I'm trying to see true vertex position for psi3770 -> D+D- ->KpipiKpipi.

I have PndMCtracks and I don't have mother vertex ID.

At gridka, the signal data didn't contain mother particle info. as I correctly understand.

Simply I have only 6 charged outgoind tarcks with true 4-momentum.

From each three outgoing tracks, I can build intermediate state D+ or D- and can find first D+ or D- vertex position via.

## Quote:

PndMCTrack \*mctrack=(PndMCTrack\*)mc\_array->At(mc); TVector3 vertex = (TVector3)mctrack->GetStartVertex();

Then now, I want to provide the vertex position for psi3770 from 4-momentum and vertex position of D+ and D-.

How can I get true vertex position only from PndMCtrack?

I assume that I need to build a TCandidate for true D+ and D-, then I can get further mother decay.

Is there easy way to do with Rho package?

Thank you for your teaching....

Best wishes, Donghee