Subject: True vertex position for secondary decay vertices
Posted by Ajay Kumar on Mon, 12 Jan 2015 20:31:35 GMT
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Dear All,

I am trying to find true vertex position for Lambda0->p pi- and Lambdabar->pbar pi+. I have four track from the simulation and used PndMCTrack to find the true vertex position of Lambda and Lambdabar particles. I am using GetStartVertex() to find the vertex of lambda from its decay particle as below.

```
 if(mctrack->GetSecondMotherID()==1){
      if (mc_pid==2212)
 {
   vtx_x= mctrack->GetStartVertex().X ();
   vtx_y= mctrack->GetStartVertex().Y();
   vtx_z= mctrack->GetStartVertex().Z();
  // r = sqrt(pow(vtx_x,2)+pow(vtx_y,2));
  // countT1++;
  //rzp-> Fill(vtx_z,r);
  // if (vtx_z< 40)
  // countT2++;

 }
 }
```

Is It giving the true vertex position of Lambda or not?
If not then how I should go for it?

Thanking you