Subject: Re: Psi3770 study with run981 tpc mode Posted by donghee on Thu, 21 Jul 2011 12:44:37 GMT

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Dear Stefano,

I'm using vertex fitter for D- in following procedure.

kip is positive kaon candidate and pim is negative pion candidate, respectively.

Then I do

Quote:

Dminus.Combine(kap, pim, pim);

PndKinVtxFitter Dmvtxfitter(Dminus[j]);

Dmvtxfitter.Fit();

double chi2 = Dmvtxfitter.GlobalChi2();

unsigned ndf = 1;

TChisqConsistency cons(chi2,ndf);

double prob = cons.Likelihood();

Concerning resolution issue, if I have wrongly used the vertex fit, then I can understand bad resolution of D+ and D-.

but if I was using correctly the fit function, then I have to have oder of \sim 100 micrometer = 0.1mm = 0.01cm

I have still ~1.4mm(=0.14cm) after subtracting value between

Quote:

TVector3 Dvertex = (TVector3)mckaontrack->GetStartVertex();

TVector3 DpVtx = Dpvtxfit->Pos();

Unit is here cm... because the smearing is visible with same unit in the D vertex distribution. Upper plots are generated true vertex of D, and belows are reconstructed one, as I show you already few times.

I will check some bug..

Best wishes,

Donghee

File Attachments

1) Dmeson_vertex_distribution.eps, downloaded 307 times