Subject: Re: PndVtxPRG vs PndKinVtxFitter
Posted by Ralf Kliemt on Fri, 24 Oct 2014 14:31:38 GMT
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Hi Karin,

There is a potential bug (marked in red). Simply use bool checkb=vtxfitterlb.Fit(); as the fit statement in the beginning of the block.
Karin Schönning wrote on Fri, 24 October 2014 11:44for (j=0;j<lamb.GetLength();++j)
 {

  PndVtxPRG vtxfitterlb(lamb[j]);

 vtxfitterlb.Fit();
 double chi2_vtx = vtxfitterlb.GetChi2(); // access chi2 of fit
 double prob_vtx = vtxfitterlb.GetProb(); // access probability of fit
 h0b_chi2_vf->Fill(chi2_vtx);
 hlamb_prob_vf->Fill(prob_vtx);
  bool checkb=vtxfitterlb.Fit();
      if(checkb)
                                // when good enough, fill some histos
 {

   RhoCandidate *lambv = lamb[j]->GetFit(); // access the fitted cand

Do you apply other selections, such as a distance cut to the interaction point? The PndVtxPrg should be just a touch less accurate then the PndKinVtxFitter. I expect no different efficiency drops by fitting.

Cheers
Ralf