
Subject: How works PndVtxPRG full mode
Posted by [donghee](#) on Mon, 31 Mar 2014 11:00:20 GMT
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Hi Ralf,

I remember that PndVtxPRG have two main option full and fast.
One can do very fast vertex fitting with a option FitVertexFast(TVector3 &vtx, TMatrixD &cov, bool skipcov=false, int niter=2).

If I want to do with full option for this, it seems to have similar usage like PndKinVtxFitter.
Can I access RhoCandidate with GetFit() still in PndVtxPRG?

Quote:

```
PndVtxPRG prgfitter(dm[jj]);           // instantiate vertex fitter
    prgfitter.Fit();                     // perform fit
RhoCandidate *dm_fit_prg = dm[jj]->GetFit(); // fitted candidate
double dm_prg_chi2 = prgfitter.GetChi2(); // access chi2 of fit
double dm_prg_prob = prgfitter.GetProb(); // access probability of fit
    TVector3 dmVtxPrg = dm_fit_prg->Pos(); // the vertex position
double dm_prg_x = dmVtxPrg.X();
double dm_prg_y = dmVtxPrg.Y();
double dm_prg_z = dmVtxPrg.Z();
double dm_prg_mass = dm_fit_prg->M();
```

or Do I have to set the covariant matrix and TVector3 (for vertex) as used in the Fast mode?

Best wishes,
Donghee