
Subject: PndKinVtxFitter. Does FitAll() work?

Posted by [Dima Melnychuk](#) on Fri, 28 Mar 2014 11:10:15 GMT

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Hi,

I try at the moment to make a comparison of full vs fast simulation for $\eta_c \rightarrow \phi \phi \rightarrow K^+ K^- K^+ K^-$ decay.

I did this analysis for central tracker TDR and I am updating the analysis macro.

I have a problem with vertex fitter PndKinVtxFitter if I want to access fitted daughter particles after the fit.

The code

```
PndKinVtxFitter vtxfitter(etac_vtx[j]);  
vtxfitter.Fit();
```

works, but daughters are unfitted:

```
RhoCandidate *etacfit=etac_vtx[j]->GetFit();  
k1 = etacfit->Daughter(0);
```

I tried

```
k1 = etacfit->Daughter(0)->GetFit();
```

and it returns 0.

But the code

```
PndKinVtxFitter vtxfitter(etac_vtx[j]);  
vtxfitter.FitAll();
```

which should work according to documentation

(https://panda-wiki.gsi.de/foswiki/bin/view/Computing/PandaRootAnalysisJuly13#A_5.1_PndKinVtxFitter_45_Vertex_and_kinematic_fitting)

produce the

```
chi2_vtx=-9999 (chi2_vtx=vtxfitter.GetChi2()),
```

whereas with vtxfitter.Fit() chi2 were reasonable values.

So did anybody (means Ralf or Klaus) check PndKinVtxFitter::FitAll()?

Dima
