
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 than the PndKinVtxFitter. I expect no different efficiency drops by fitting.

Cheers

Ralf
