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Subject: PRGFitter

Posted by [Simon Reiter](#) on Mon, 09 Sep 2013 17:54:17 GMT

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Hi everybody,

while plotting some stuff, I scanned some results from the PndVtxPRG fitter.

I recognized the error in the release, but I could also confirm it in the trunk. Since the release won't be fixed, I guess, I will not consider it anymore.

I reconstruct D mesons and do the fit as follows:

```
PndVtxPRG prgfitter(d0[i]);
TVector3 vertD;
vertD.SetXYZ(0,0,0);
prgfitter.Fit();
Float_t chi2s=prgfitter.GetChi2();
vertD=d0[i]->GetFit()->Daughter(0)->GetPosition();
Float_t vertDrho=vertD.Mag();
```

I write the chi2s and vertDrho in a tuple. I was wondering, that for chi2s, I get in some events -20 while the vertDrho is set to nan.

Any ideas?

BTW: In the release, both was set to nan.

Best regards

Simon

PS: the trunk folder was updated this morning.

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Subject: Re: PRGFitter

Posted by [Ralf Kliemt](#) on Mon, 09 Sep 2013 18:18:23 GMT

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Hello Simon.

Please filter out these not converging fits which give the chi2=-20.

Cheers

Ralf

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Subject: Re: PRGFitter

Posted by [Stefano Spataro](#) on Tue, 10 Sep 2013 21:38:29 GMT

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Maybe the all Fit functions should return a boolean telling if the fit failed or not.

I.e.

```
Bool_t isGood = prgfitter.Fit();
if (isGood) ....
```

else ...

instead of being void. What do you think, Ralf?

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Subject: Re: PRGFitter  
Posted by [Ralf Kliemt](#) on Wed, 11 Sep 2013 05:42:55 GMT  
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Basically yes.  
I have to see if there was a reason why I didn't put it in the first place besides the old Rho heriatage....

Ralf

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Subject: Re: PRGFitter  
Posted by [Ralf Kliemt](#) on Wed, 11 Sep 2013 14:33:54 GMT  
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Hello again.

I put the bool status flag. Be aware that only few cases of failure are covered. Errors by not inverted matrices are not caught by the algorithms.

Ralf

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