
Subject: Re: Start and stop values from PndRecoKalmanTask
Posted by [Stefano Spataro](#) on Thu, 15 Aug 2013 09:03:00 GMT

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In the case the flag is not 1, the "fitted" PndTrack will have the parameters of the "prefit" PndTrack since the fit or something else has failed... Gianluigi's code or in your case the smearing you put in the ideal track finder. In this sense, those tracks should be removed (PndPidCandidate::GetFitStatus() >0 are the good tracks) since they cannot be used. The reason... the $NDF==0$ comes from genfit itself, the missed conversion between GFTrack and PndTrack... if you read the adapter it is coming from an exception of this code:

```
first_pro = gtr->getMom(firstPlane).Dot(firstPlane.getNormal());  
last_pro = gtr->getMom(lastPlane).Dot(lastPlane.getNormal());
```

Again, this is internal to genfit. No idea what is wrong there. Our genfit version is "old", of 2011, they said a new revision should come this summer, and we should move to such new code... but still I did not read about any news in their mailing list. Maybe some bugs are fixed, maybe not.

The fact that $flag>0$ does not solve completely the situation was seen also by me and Lia, but for sure it is not "safe" to use tracks with $flag \leq 0$.

I suspect genfit developers are not reading our forum anymore.
