
Subject: Re: new in AbsTrackRep: extrapolateToLine and consequences on WirepointHitPolicy

Posted by [Lia Lavezzi](#) on Wed, 18 Mar 2009 12:23:58 GMT

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Hi,

ok, please, let me shortly summarize things, because I'm getting lost in all this discussion and I want to understand things well

Let's consider for now the extrapolateToPoca (just because it is already implemented, and the extrapolateToLine will be almost the same):

- NOW it does the following (by calling the PropagateToVirtualPlaneAtPCA): it extrapolates to a very large track length, finds the point of closest approach, builds here its own detector plane, finally re-extrapolates to this detector plane and gives the results, which are the state/cov/detPlane/poca.

- Your idea is to rewrite the extrapolateToPoca in order not to call the PropagateToVirtualPlaneAtPCA and to just have one extrapolation (the one to a very large track length), which only finds the point of closest approach, without filling any PREDICTED state/cov/detPlane.

If so, this is the same idea I have, so I agree

In this case we will have (that's true!) an extra extrapolation, but is really necessary in order to find the poca, so we just have to keep it.

Please correct me if I misunderstood something...

Ciao,
Lia.