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...

<div style="text-align:center">

Ciao,
Lia.

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