

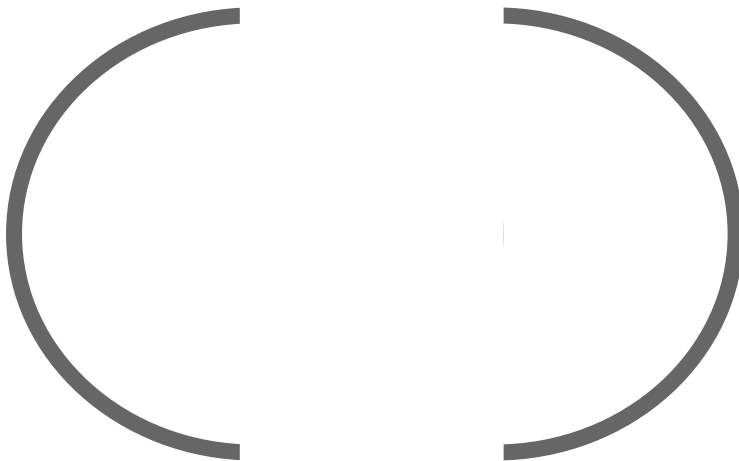
Tracking Meeting Stuff

Objects for Communication between Track Finders

- Needed info:
 - Has **RecoTrack**
 - CDC/SVD/PXD hits?
 - stereo/axial hits?
 - hit pattern?
 - (Path of Finders, that yield the TC)
 - **quality of TC**
(something indicating, how likely this is a real track)
 - Is hit already used by track (**HitInfoManager**)?
 - **if yes, by which one?**
 - **Potentially some more information.**

No sorting parameter

- Assign to each track an arm of “pseudoCharge” positive/negative.
- With this information the RecoTrack can order the hits itself (in the CDC this is trivial, in the VXD still possible)
- The TrackFinders still make the main work, by deciding into which arm the hits are going.



I guess for the TrackFit one returning arm of a track is sufficient.

Hits are entirely handled by RecoTrack

- Which inherits from `genfit::Track`
- I didn't find the hit handling of the `genfit::Track`, therefore this is reimplemented.

<https://belle2.cc.kek.jp/browse/viewvc.cgi/svn/trunk/software/tracking/dataobjects/include/>

ETrackFinderIDCDC.h

ExtHit.h

FullSecID.h

HitInfoManager.h

HitSorterBaseCDC.h

HitSorterBaseVXD.h

Muid.h

MuidHit.h

PXDIntercept.h

ROlid.h

ROIpayload.h

ROIrawID.h

RecoTrack.h

But the HitInfoManager needs to know, which hits belong to each RecoTrack. Is it critical to know as well, which Finder added the hit to the track?

Then either the RecoTrack needs to know as well or the TrackFinders have to add hits via the HitInfoManager.

RecoTrack may as well handle fitting

- which allows it to save the fitter configuration.
- recreates (genfit-)RecoHits on demand.

ROOTification of

- HitPatternDET
- Question as well in context of WireID
 - Is size of object independent of saving the ROOTified WireID or is it better (what we currently do) to save the underlying integer types itself?