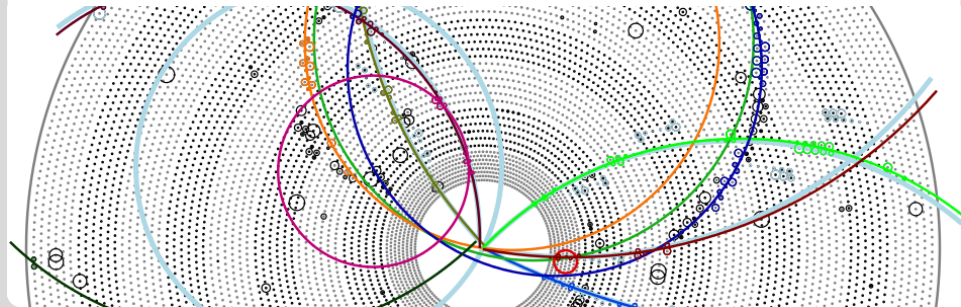


RecoTrack Discussion

F2F tracking meeting.

Nils Braun | 1.9.2015

KIT



HOW STANDARDS PROLIFERATE:
(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC)



- The RecoTrack is a new dataobject in the tracking package which inherits from `genfit::Track`.
- It has therefore the same capabilities than the track and:
 - Relation-ready interface for the added hits (not reco hits).
 - `RecoHitInformation` object to save additional hit information (like RL-information in the CDC or sorting parameters).
 - Fitting preparation procedure build into the track (time-of-flight, `AbsRep` creation etc.)
 - Flag if last fit was successful.
- `genfit::TrackCandidate` objects can be build out of RecoTrack objects and vice versa.

Together with the new track class some modules were build:

- Different fitter modules loading the filters from `genfit` and feeding the tracks into them (with an abstract `BaseRecoFitterModule`).
- A module to turn `genfit::TrackCandidate` objects into `RecoTrack` instances (which is unneeded once we turn to the `RecoTrack`).
- A separated module to turn the added hits into measurement points (more configurable options).
- A mockup of the `TrackBuilderModule`.

- What else do we need in the `RecoTrack` class? Helix-like computations? Etc.?
- Can we get rid of the `genfit::TrackCandidate`?
- More questions?