

Tracking Meeting

Backlog from Minutes of the Tracking Meeting

- Naming conventions of the Track Finder:
 - **TrackFinder***WriteYourNameHere*Module
 - TrackFinderMCTruth **[already renamed]**,
 - VXDTF → TrackFinderVXDStandAlone,
 - CDCLocalTracking → TrackFinderCDCLocal,
 - CDCLegendreTracking → TrackFinderCDCGlobal,
as well
 - mcTrackCandCombiner → TrackCombinerCDCVXDMCTruth,
because we may have as well different combiners later on. (Or do you prefer Merger instead of Combiner as chosen for the non-MCTruth based one?)

You can do so yourself, or otherwise I will do on Monday morning. I will announce this in the developers meeting on Thursday as well.

We decided:

- the following capitalization convention for the directories, that
 - it is fine to have more than one module in a directory,
 - acronyms are lowercase, the following words in the name have the initial letter in uppercase, e.g.:
cdcRelatedStuff, and
 - we remove both extrapolateToVxd and simplebackground **[DONE]**.
 - Changing some stuff in the validation. [\[I will talk with Michael\]](#)

Some Module Care Takers

- modules/trueHitTester → Michael Ziegler
- modules/vertexer → Luigi Li Go ??? [I haven't asked him yet]
- Moving vxdSimpleClusterizer either to the helperToolsTrackFinderVXD or directly into the folder of the TrackFinderVXDStandAlone (perhaps named trackFinderVXDStandAlone?)

We discussed the Validation Strategy

- We would like to have nightly and monthly validation.
 - Nightly validation can take presimulated data-sets to speed up the validation strongly.
 - In addition the validation should be smarter, e.g. by having dependencies between scripts, and it should be possible to start part of the validation by hand.
- However, for tests before check-in, this is not optimal, so
 - please execute the unit tests.
 - ***test_basf2*** executes steering scripts in all test folders, I will ask for the possibility to execute only scripts in the tracking test folder.
These scripts should only take few minutes in total (e.g. executing a handful of events) and should be executed then before committing major changes

Some Requests for the TrackCombinerCDCVXD

- I will check how far these requests were already fulfilled by Benjamin (who currently works on the merging of beam test telescope with Belle II detector tracks as I understood Rachid at the last B2GM)

Helix Class

- We will use the new Helix class neither for the final track fit (in Genfit) nor for vertexing.
- The current helix class is used
 - in the trigger, and
 - in the CDC simulation.
- We might use it for fast global helix fits in the pattern recognition stage.
- A clean implementation by the Vienna group of a helix seems to exist and was proposed by Winni.

Questions or Comments?