

Dear Christian,

Thank you for your kind teaching. I have few question to work the FS tracking, efficiently. I have few references, but every suggestions indicate slightly different way. That is a bit confusing!

If I have some misconception, please correct me!

Quote:

1. You would have to modify the `recotasks/KalmanTask.cxx` very slightly to contain hit producers for the three detectors.
2. take the following `TClonesArray` of reconstructed clusters and for each one I call the ctor `SomeRecoHit(SomeCluster*)`.
3. a pattern recognition which makes one `TrackCand` object containing all clusters from the 3 detectors
4. If you would like to try this, I could tell you a little more with the TPC example, how it is done.

Concerning your comment 1:

Actually, we don't need to use `MVDPoint`, `PndDchPoint` and `GEMPoint` class, which are produced in simulation file for the fitting purpose. Is it correct?

Thus, I'm going to use hit containers in the digi file.

`GEMHit`, `MVDHitPixel`, `MVDHitsStrip` and `PndDchCylinderHit` classes are probably important to use three detectors.

Concerning your comment 2 & 3.

`DemoPatternRecoTask` or `PndDchPrepareKalmanTracks` has roughly same structure.

I assume that these two file has only different name, but they have same purpose.

They make a track candidate from local track including local detector hits!

This procedure can be called a pattern recognition, is it right?

After this setp, we have now quasi-reconstructed track(candidate) and quasi-reconstructed hit(according quasi-reconstructed track).

Finally, in the `KalmanTask`, the actual fitting can be performed for all quasi-reconstructed track candidate and find real reconstructed track candidate when the kalma fits are finished successfully.

I have one trouble to make clear understanding.

I thought that a pattern recognition simply can be made only with hit information as suggested in `DemoPatternRecoTask`.

But for example, `PndDchPrepareKalman` prefer to use local track, which is defined with one detector component in digi procedure.

I expect that it doesn't matter what we use, because local track have some hit information in any case. This is only different approach, is it correct?

Concerning your comment 4.
Where is it? Could you show me that?

Thank you for your time!
Cheers, donghee
