

Table of Contents

Planning for tracking developments.....	1
To do items.....	1
Velo pattern recognition.....	1
(Stephie).....	1
Fit improvements.....	1
Fast Geometry (Wouter).....	1
2D PV Fit (Mariusz).....	1
Longer term projects / ongoing work:.....	1

Planning for tracking developments

This page documents the plans for tracking developments, as discussed at tracking workshops. It was last reviewed at the Tracking workshop on 2009-07-10.

To do items

The status of this list is reported every two weeks at the T-Rec meeting. It was last reviewed at T-Rec on 2009-11-02

Velo pattern recognition

- Submit latest chi2 tuning of new velo fit as presented in the workshop - done by David (PatVelo tag dhcroft_20090710, in Brunel v35r4). However check chi2 values again on larger files, eventually retuning is needed (**David**)
- Understand bug (?) in TELL1 emulation/clustering (see Olivier's talk) (**David**)

(Stephie)

- Add criteria for reconstructible B daughters (e.g. we are only interested if all B daughter tracks are reconstructible) - done
- Add TT hit information
- Add hit efficiencies - done
- PatChecker - obsolete, remove from CVS (**Stephie**)

Fit improvements

- Check/Set status from FitInitialization and pass it to full kalman fitter (**Stephie**)
- Limit outlier removal in fit (**Wouter**) - Needs revisiting measurement class as separate counting for stereo and x Dof not directly feasible right now
- Check center of momentum pulls, retune dE/dx if needed (**Stephie**)
- unifying the options settings for all track types, make the refit possible on the best container (**Kostya, Wouter**)

Fast Geometry (Wouter)

- Documentation, available from tracking TWIKI - done (https://twiki.cern.ch/twiki/bin/view/LHCb/SimplifiedTrackfitGeometry)
- Add min ionisation to fast geometry - done, however not yet validated
- Code to obtain fast geometry in cvs

2D PV Fit (Mariusz)

- Bias in PV reco due to non ideal Velo Position

Longer term projects / ongoing work:

- Tuning of ghost probability for HLT (no fit chi2 available) - **Johannes A.**
- Work on TT in tracking (**Jonny, Michel**)
 - ◆ common interface for adding TT hits to long tracks

TrackingJobList < LHCb < TWiki

- Work on parameter comparison based method to evaluate efficiency and ghost rate (???)
 - ◆ Do we want to change only numerator or as well denominator of efficiency
 - Further studies on New PatVelo Tool (**Olivier**)
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This topic: LHCb > TrackingJobList

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