

Tracking: Winter Conference Development/Validation

**Matthew Herndon
Johns Hopkins University**

Tracking Meeting

Sep 17, 2003

Tracking Development: Progress

Projects for 5.1.0

- New COT alignment: done
- Corresponding silicon alignment: final version ready
- Improved COT drift model: code in place: **need to determine constants/run calibration job**
- t_0 used in COT tracking: t_0 in Z vertex collection and code exists for fitting:
- IO tracking: inside-out: working version ready: Clean up of COT/IO-Standalone duplicates done
- Standalone tracking improvements wafer level corrections: done
- Standalone tracking expected ladder information works: calib accessors work and tables written
- Beamline code run in or before production: running
- Beamline pointing for HL code: done
- Improvements to dE/dx code: done
- Phoenix tracking: complete version ready: **need to combine with IO tracking - preliminary code ready**
- L3 Silicon Standalone Tracking: ready: **need to quantify performance**
- Use of L00: Refit that uses L00 done: **Alignment work needed - radial corrections**
- Improvements to pull distributions of track parameters: **needs more manpower**

5.1.0 Status - Validation good - writing final calibration pass