People and interests in CRUZET/CRAFT

Institution	People	Expertise	Specific Interests	
AACHEN	M.Weber, M.Edheloff, D.Sprenger	Overall view of alignment TEC assembly TEC alignment in AACHEN and at TIF	Alignment of DS modules Detect weak modes using MP diagonalization Alignment vs. data-taking period LAS	DATA/MC DATA/MC DATA DATA
DESY	C. Kleinwort	MP author	Reference Trajectory model	MC
Hamburg	G.Flucke, J.Draeger	MP developers Reference trajectory use Track based validation	Interplay between outliers and the trajectory model Test of the sensitivity to Det level alignables	MC MC/DATA
Torino	E.Migliore, R.Castello	Run on real cosmics sample (TIB)TID assembly	Alignment of TIB and TID Weak modes in data (a la Zijin and Nhan)	DATA DATA

Open items

- Revise the current alignment strategy: Structures and Layers → Dets
 - Motivation: move modules not aligned because of too few hits together with the higher level structures they belong to. Dictated by:
 - how the data were accumulating during CRUZET (separate selection for TEC) and CRAFT (separate selection for PXL);
 - In TIB, shift in z SS modules together with DS modules.
 - Other possible strategies:
 - align Structure+Layers+Dets in one go (limit on the number of hierarchical constraints?);
 - align at Dets level directly (CRUZET used just as cross-check sample);
 - use different alignables.
- Revise the definition of the MP coordinates system: pre-sigmas
 - (re-)optimization of pre-sigmas in the different Tracker sub-detectors;
 - usage of 'rrrrrr' flags (?).
- Compare different alignment configurations relying more on MP monitoring tools (cf. alignment parameters vs. iteration or chi2/dof in HIP). Until now: decision of cfg1 vs cfg2 based on the residuals from the track-based offline validation.

Next steps

- Sign-off of constants for new reprocessing: Jan28 tight time scale → do the same things as done in Fall'08
- Priorities for Jan28

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 CAF AFS area /afs/cern.ch/cms/CAF/CMSALCA/ALCA_TRACKERALIGN/MP/GlobalRun/SRC/CMSSW_X_Y_Z

with working release of MP (including MPS and pre-sigma cffs) and validation code