

Minutes of the Coral-weekly meeting, 25/04/2018

Communications:

- Productions: P07-t4 - ongoing, problems with CASTOR and with quota (<2 Kjobs) on HTCondor
 - A ticket was opened for HTCondor issues. Suggestion to add more CEs and to submit more idle jobs. 5 new queues added to the configuration (before was 8).
 - Several iterations of P07 are foreseen (corrected L/L calibrations, pi0-calibrations)
- Productions: P09-t4 – not started. Waiting for:
 - BPC from Elena and for final alignment
 - New corrected ECAL calibrations (Po-Ju, Marketa, Andrea B.)
 - LAST-T0 calibrations (Moritz)
- Po-Ju will provide updated calibration tables (P09) and Marketa will submit them to the DB
- Marketa has committed P07 calibrations prepared by Andrea (initial, not-corrected ones) to the DB, so that Po-Ju can evaluate the corrections.
- Marketa will commit Andrea's calibrations also for other periods of 2016.
- Po-Ju, seems P07 is stable enough and correction to L/L should be minor
- For 2017 L/L ECAL corrections will be done by Marketa (with help of Andrea)
- Files transfer to BW (using FTS) is stable now (Caroline). Request to copy also 2016-P07
- Christoph has passed target density values from DCS to Karolina
- Elena – P09 BPCs almost accomplished, next P06-P01, P08, P10, P11

1) Artem Petrosyan – production system

- Optimizations for CERN-site (in touch with Ben Jones for HTCondor)
- Blue Waters site
 - Ready for full period production, request to Riccardo to prepare W07-t5 production on BW
 - Running on BW is unexpectedly slow compared to the tests done by Marco and Caroline and compared to CERN (now – 20 hours per file, before was 12 hours, at CERN 8 hours)
 - To test 32 CPU = 31 CPU (jobs) + 1 (“service” CPU for DB and environment) configuration

2) Yann – modifications in CORAL

- Testing Sergei's new version of PHAST with “missing SrcID” info included
- New production of P07-t4 looks much better than the previous one (new alignment, updated calibrations, updated CORAL)
- FI03 position obtained from vertexing appears to be 1-2 cm shifted w.r.t. survey values and current values in det.dat while MPs appear to be in correct positions.
 - Q: relative positions of FI03 planes should be fixed, is it reproduced?
- Question to Sergei if he can apply new L/L calibration corrections by himself before doing pi0 calibrations (so that we reduce the number of iterations). The answer is no, Sergei needs mDSTs with corrected L/L calibrations to produce pi0-calibs.

3) Andrei and Nicolas – MC

- Request to Andrei to prepare the beam-file for P07
- Request to Andrei and Nicolas – to summarize MC-setting (generator, etc.) agreed with Andrea B in an e-mail and to start producing P07-t4 MC on BW. Move produced files to CASTOR and make them available for Karolina.
- Next MC to be produced is P09.
- LAST-issue in TGeant/CORAL is not yet fixed (hits are stored, but there is no trigger), request to send a descriptive e-mail to COMPASS-MC, so that others can also check the issue

4) Konstantin Sharko – 2017 alignment status

- Konstantin has managed to run Yann's DPS framework for FI01 (AnalyzeDCs).
- Suggestion to test also AnalyzeMMs

- With updated SciFi positions in 2017, better residuals and more entries (x5).

5) Alexander Chumakov – constrained alignment status (P02 2017)

- Divergent results when testing all detector-constraints together. Testing one-by-one is OK.
- Suggestion to exclude constraints one by one from all-constraint fit and see which constraints cause instabilities.