

## Minutes of the Coral-weekly meeting, 25/07/2018

### Communications:

- Problems with productions. Mass production cannot be started.
  - Only the paths have been changed, but strangely production is not being launched.
  - Elena is trying to launch a test-production to check if the problem is related to mass production settings or if it is more general
  - Artem is not available to check. He will be back by the end of the week.
  - Before leaving he tried to migrate to new PanDA server version, but unsuccessfully. This new server is needed for BW (possibility to launch big number of jobs).
- Production schedule
  - We start mass production slot-1 which will include P07, P09 (RICH indices, CORAL, BMS calibrations, calorimeter positions, etc.). Should be a base for releases for SPIN-2018 (most probably projected uncertainties).
  - On BW we will soon start DY mass production with Escalade (Marco, Riccardo).
  - In parallel, on BW Riccardo will run efficiency-map extractions for each DY period.
  - The goal would be to use up to 50% of allocation (maybe some MC can also be generated)
  - We used only 20% of BW allocation, but it seems it won't be a problem. We will get new allocation and also we can get what we have not used for this allocation.
  - Efficiency maps should be produced also for 2016/2017, no responsible for the moment.
  - Robert should fix some alignment problems identified last week.
  - Artem Ivanov is working on DPS studies on MC data.
- Konstantin was requested to check detector positions in det.dat across 2015-2016-2017. The work is done will be shown at one of the next meetings.

### 1) Renat – alignment 2018

- Focused on W04-period alignment. Problems with DC04 and pMMs. Series of trials (switching on and off different planes).
- Suggestion is to use positions of residual peaks to correct the misalignments (to correct the det.dat).
  - In some cases for PMMs the residuals look strange (asymmetric shoulders, no clear peak position), it may be that the angles are wrong? Suggestion is to check 2D histograms.
  - Another suggestion is to check P07-2017 alignment (e.g. angles).
  - One can check also the MM-calibrations (to contact Damien)
  - Another suggestion is to run DPS studies (started by Marcia?)
  - New calibrations for GEMs are available (cloned 2017 calibrations)

### 2) Konstantin – detector positions across 2015-16-17

- 2015 all periods, P07-2016, P09-2016 and P07-2017.
- Positions are in general stable within 2015 and within 2016.
- Some variations can be explained by interventions.
- Some variations between 2015 and 2016 are attributed to different convention for the distance from first wire (e.g. DC01). Should be unified at one of the next alignment stage (to have the same center for different coordinate-planes). Still, it should not distort the tracking.
- There is a jump in position of some detectors between first 4 periods of 2015 and last 5 periods (DCs, MMs), while the rest seems to be stable enough (apart from W15 being an outlier in several cases). Which means det.dat-wise it may be enough to produce just to MCs one for the first half and one for the second. Still, corresponding beam files may have to be different.
- There are some small (~1 mm) variations between P07-2016 and P09-2016 (e.g. for muon walls).
- Again Muon-Wall behavior in 2016/17 was discussed.