

Update and a summary of anticipated activities on Run-15 HFT Calibrations

SSD:

→ The DAQ reader [therefore the pedestal subtraction and noise calculation] is going to be identical as in Run-14.

→ *Action items:* a) for each run with SSD [most] scan a small event sample to extract pedestal and noise [same procedure as in run14, using online root files to large extend] b) insert in Db

Time estimate to do it [Long or Jonathan]: ~ 2 weeks

[Long is pt. stuck in China]

→ Masking of bad chips:

→ *Action items:* a) insert in Db the 1st iteration as it is extracted from run scan in previous step b) fine-tune after calibration-production (see footnote). *This step will also require to run over .daq files and not over root files as it is done in step 1. (but the process is really fast because only the SSD daq maker is used, no other makers)*

Time estimate to do it [Jonathan]: after ~2 weeks for 1st iteration

→ Finalize/check consistency of alignment with rest of HFT:

→ *Action items:* a) insert in Db after this is done.

Time estimate to do it [Jonathan/Mike/Sanshiro]: about a month to complete

IST:

→ PedNoise/gain/ChipStatus tables for Run-15

→ *Action items:* a) insert in Db information available from online disk

Time estimate to do it [Yaping]: ~ a week

→ Final chipStatus table for Run-15: need pre-production of physics data in Run15 after the step 1

→ *Action items:* a) pre-production of physics data in Run15 b) cross-check

and finalize chipStatus table

Time estimate to do it [Yaping]: ~1 week after pre-production of Run15 physics data is in hand

→ Final gain table for Run-15: need pre-production of cosmic data in Run15

→ Action items: a) pre-production of cosmic data in Run15 b) run offline analysis code

Time estimate to do it [Bingchu]: ~1 week after pre-production of Run15 cosmic data is in hand

→ Final alignment table for Run-15:

→ Action items: a) check the consistency with the rest of the HFT b) insert into Db

Time estimate to do it a) [Sanshiro]: about a month to finalize b) [Bingchu] ~1 day after a)

PXL:

→ Masking of bad channels:

→ *Action items*: a) extract info from online files and insert in Db the 1st iteration [need to check with Hao on exact status of this, ie how much is done already] and b) fine-tune/check after calibration production

Time estimate to do it [Hao]: ~ a couple of weeks for 1st iteration if not done. Fine tuning/check after pre-production sample is in hand with help from Poland

→ Finalize/check internal PXL alignment:

→ *Action items*: a) insert in Db after this is done.

Time estimate to do it [Sanshiro/Xin]: about half a month to complete. An initial estimate exists but need improvement, since we had unexpected issues likely related to sector survey before insertion.

The consensus of the group is most things should be in place beginning of November for a small scale QA calibration-production check.

Footnote: calibration production

A calibration production will be requested soon with all three subsystems also with only HFT hit chain (no TPC) for all physics runs to verify all the masking tables and fine-tune the outliers. This is the same exercise we did before the Run14 production started.
