

ECAL conditions

78 tags in `140X_dataRun3_HLT_v3`

172 tags in `140X_dataRun3_v8`

PCL

- ECAL pedestals (only the G12; G1 and G6 are updated **manually** every week)
 - Mean and RMS of all three gains in one single record
- In Prompt: [EcalPedestals_prompt](#) is available, one per run, Created copying tag `EcalPedestals_express` from `oracle://cms_orcon_prod/CMS_CONDITIONS` --> So this is the one that comes from the PCL
- In HLT: [EcalPedestals_hlt](#) is available
 - In HLT we only have the weekly update!!! But also all three change...
- On other hand, I see ALL THREE of them changing also in Prompt

Laser corrections

- ELMONK (What is this?)
 - Available at HLT per fill (correct)
 - Tag with 40 minutes granularity for offline
There is a tag called [EcalLaserAPDPNRatios_weekly_hlt](#), but it is actually fill by fill. They skip the fill when it is very tiny (e.g. fill 10109 had less than 15 min of stable beams)
Conversely, [EcalLaserAPDPNRatios_prompt_v3](#) for the offline, and has the "large number IOV" (e.g. 7410764162835415000)

Alignment

As far as I understand, this is done only once per magnet cycle. Irrelevant for us?

Pulse shapes

"Pulse shape workflow fully integrated in the automation" nice :)

"~3 days from collisions to new conditions deployed (including 48h T0 delay)"

[EcalPulseShapes_hlt](#) available in HLT ... biweekly updates? Also goes through FastTrackValidation

[EcalPulseShapes_Run1_Run2_Run3_v06_offline](#) available in offline --> IOV > 10000 runs

Timing calibrations

ECAL has two timing algorithms in 2024

- Ratio timing at the HLT and online DQM
 - Cross Correlation (CC) timing in prompt and express reconstruction
- But why?

"Timing calibration workflow is fully integrated in the automation in 2024"

[EcalTimeCalibConstants_v3_hlt](#) available in HLT, goes through Fast Track Validations

[EcalTimeCalibConstants_Run1_Run2_Run3_v06_offline](#) available in offline

[EcalTimeCalibConstants_Run1_Run2_ratiotiming_Run3_cctiming_v05_offline](#) available in offline (CC) --> IOV > 10000 runs

[EcalTimeOffsetConstant_Run1_Run2_ratiotiming_Run3_cctiming_v01_offline](#) available (CC) IOV > 10000 runs

Intercalibrations

[EcalIntercalibConstants_V1_hlt](#) available in HLT, goes through FastTrackValidation

[EcalIntercalibConstants_Run1_Run2_Run3_v05_offline](#) available in offline --> IOV > 10000 runs

"Eta scale and crystal inter-calibrations require 2-3/fb of data for eta scale and harness corrections and 25/fb for phi IC and absolute scale. Partially automated"

ADCtoGeV constants

In both cases, IOV > 10000 runs

[EcalADCToGeVConstant_V1_hlt](#) available in HLT

[EcalADCToGeVConstant_Run1_Run2_V04_offline](#) available in offline

All the ParticleFlow / GED constants