Status of TOF QC development during YETS

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New QC team member

Welcome to Sofia to the QC team!

She will be joining the effort on calibration and synch QC development
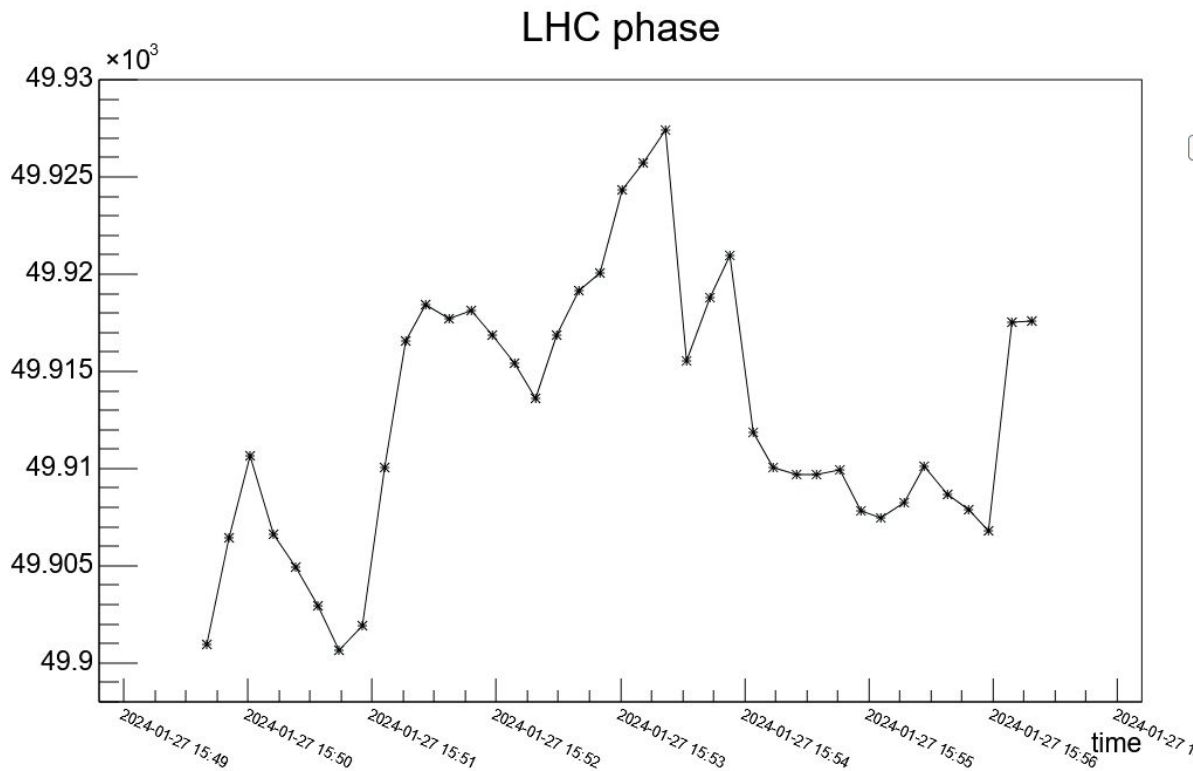

WELCOME TO THE TEAM!

To do list during YETS

1. Fix Trending if collision rate **WIP**
2. Test moving window feature ✔
3. Start/Stop/Start issue → handled by QC Team ✔
4. Implement Trending (PostProcessing) tasks for:
   a. TOF total hit multiplicity ✔
   b. active channels ✔
   c. decoding (readout diagnostics) errors **WIP**
   d. lost orbits **WIP**
5. Implement Trending tasks for Calibration objects **WIP**
6. Comparison of TOF Hit Map with reference map **WIP**
7. Json and code clean-up → suggestions by QC team
8. Update shifter documentation

New calibration QC

Trending of key calibration objects:

- LHC phase ✅
- channel offsets
- diagnostics

Tested locally, will be in production after the next sw upgrade, but already tested using "test" ccdb
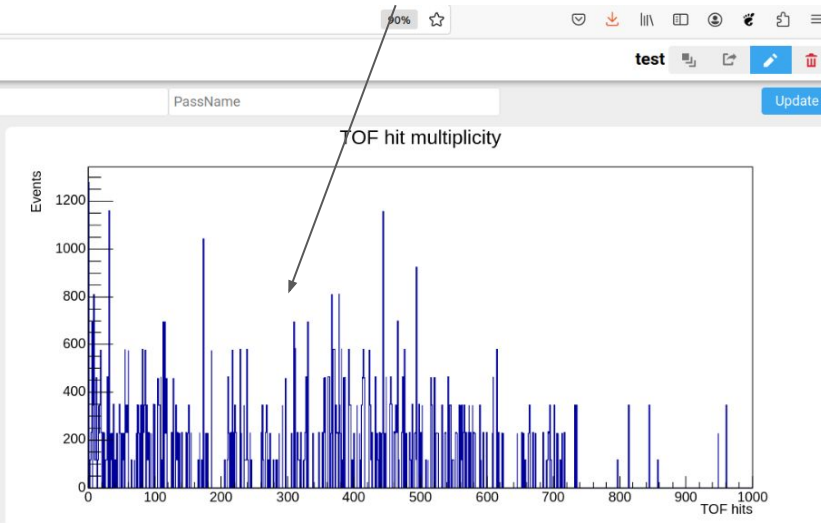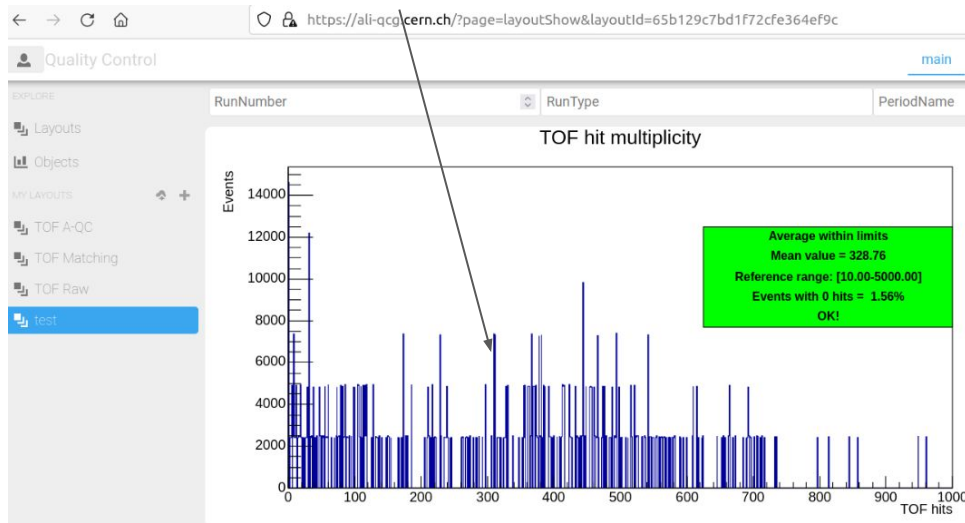

LHC phase

Moving window

Trending of TOF hit multiplicity now refresh every 60 secs!
Can give a "history" of TOF readout efficiency + noise during the run

Integrated over the full run

Refresh at every cycle (60 sec)

Comparison of hit map with reference

First implementation from Nicolò back in 2022!

Now Sofia is working on preparing this for production