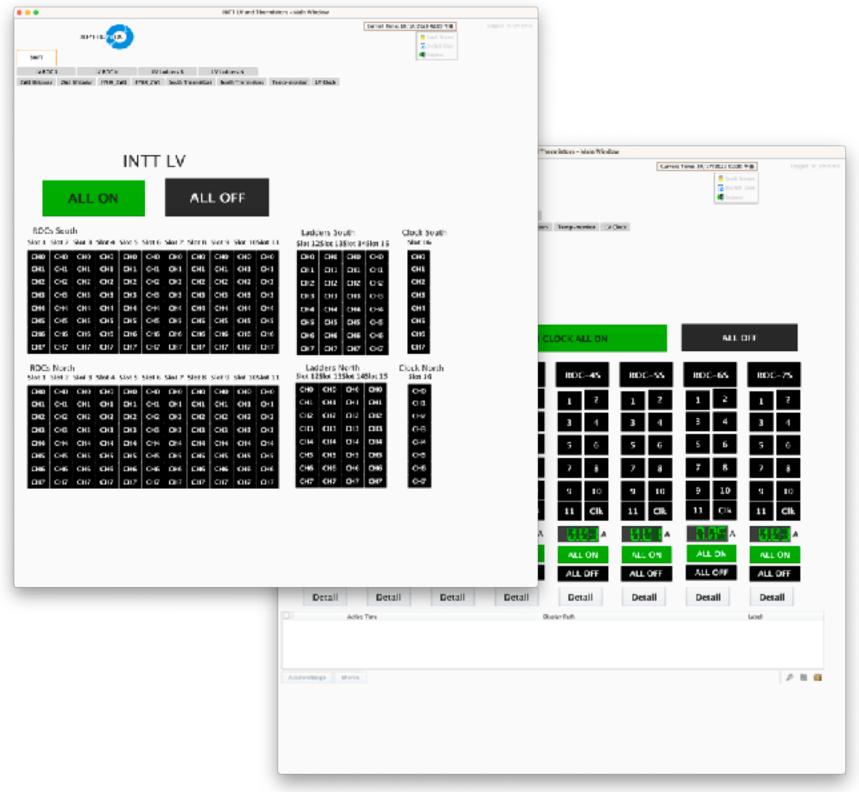
Additional monitoring tools for INTT G. Nukazuka (RIKEN/RBRC)

Current Status

LV monitoring/operation GUI (Mai W., Maya)



The operation can be done well.

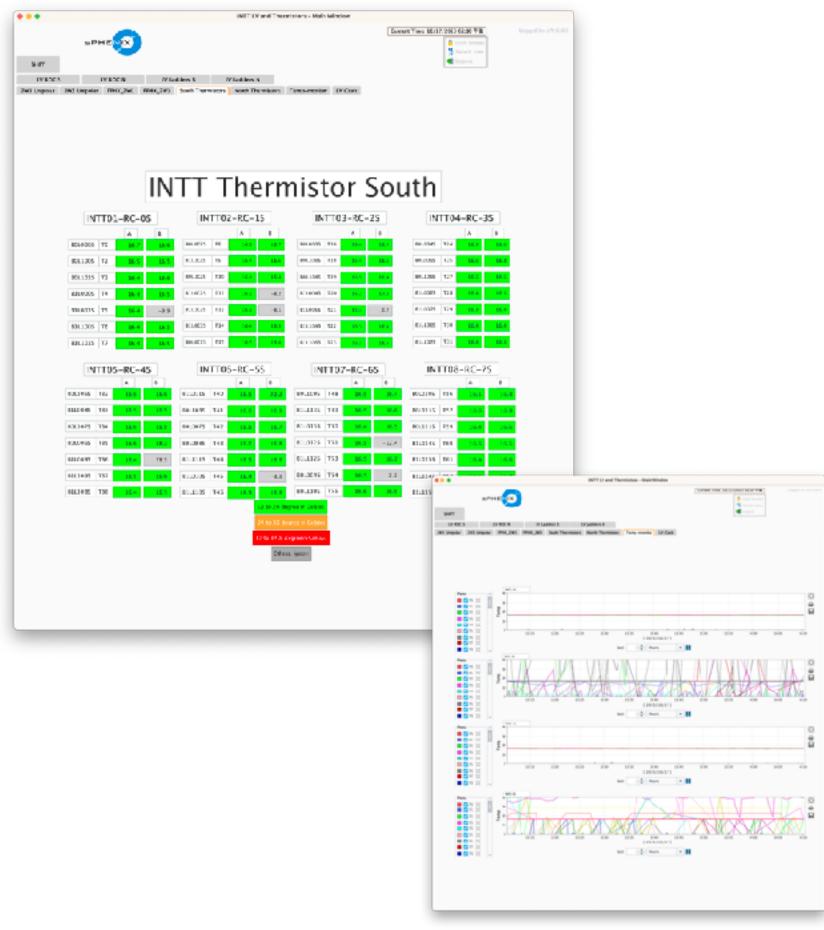
Operation history (voltage, current) is stored in the Ignition database.

HV monitoring/operation GUI (Joseph)



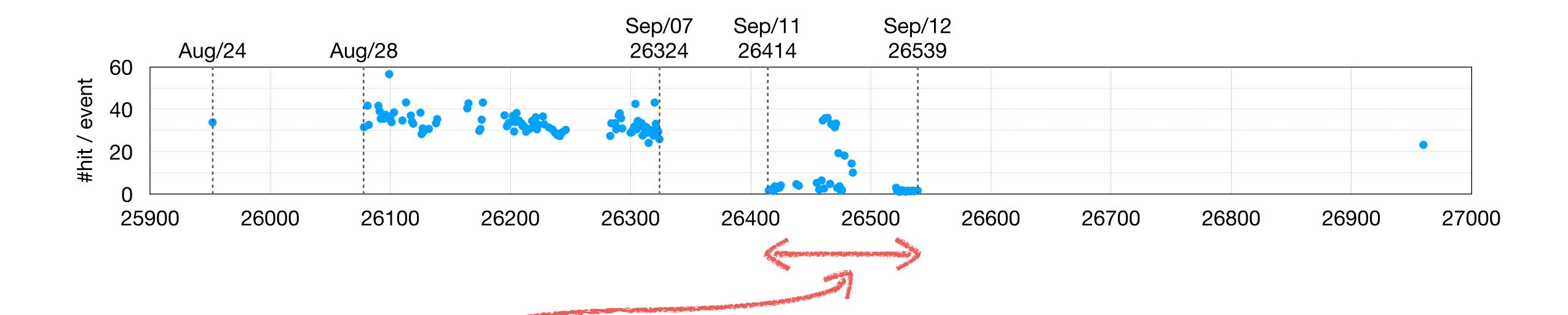
The operation can be done well. Operation history is not stored.

Ladder temperature monitoring GUI (Cheng-Wei)



Monitoring works well.

What we learned from the cosmic ray measurements



Probably, INTT did not work properly. (* The bug in the LV GUI must be fixed, of course).

1 We cannot check the operation history because of the lack of software (also no logging for HV).

Additional software implementation towards Run24

Some more monitoring/viewing software is necessary.

1. **LV viewer**: to check the LV operation history It's critical.

The Ignition framework seems to fit this viewer.

2. HV viewer: to check the HV operation history
We have to save the history. The viewer is critical.
Maybe, the Ignition framework is not a good choice. Python3 + (Postgre) SQL?

using the Ignition framework.

| YES | NO | YES | YES

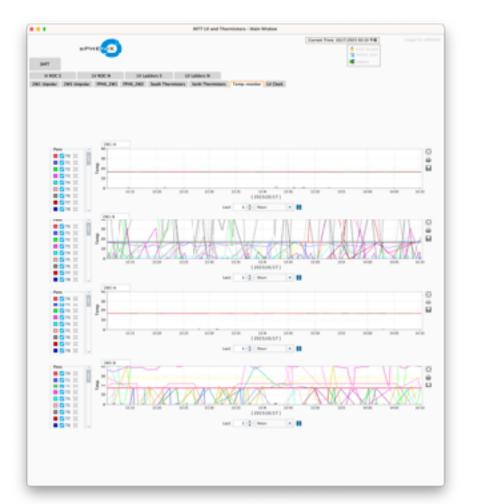
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3. **Grafana monitor**: to monitor the status of DAQ (HV/LV may be possible) It's not mandatory.

Monitoring DAQ-related parameters, for example, n_collisions, the slow control parameters, is useful. I guess we will be required to make it by sPHENIX eventually since other subsystems (MVTX, TPC, TPOT,

MBD, ZDC, and sEPD) have already made it.

We can get the sample code from TPC. The implementation is relatively easy.



The ladder temperature viewer