

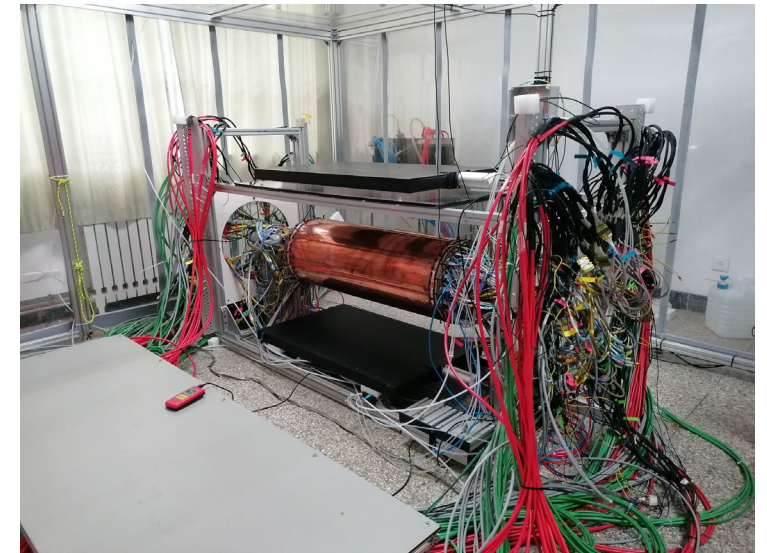
CGEM operations

Week 12-26 August

Damiano & Michela for the WG

CGEM detector:

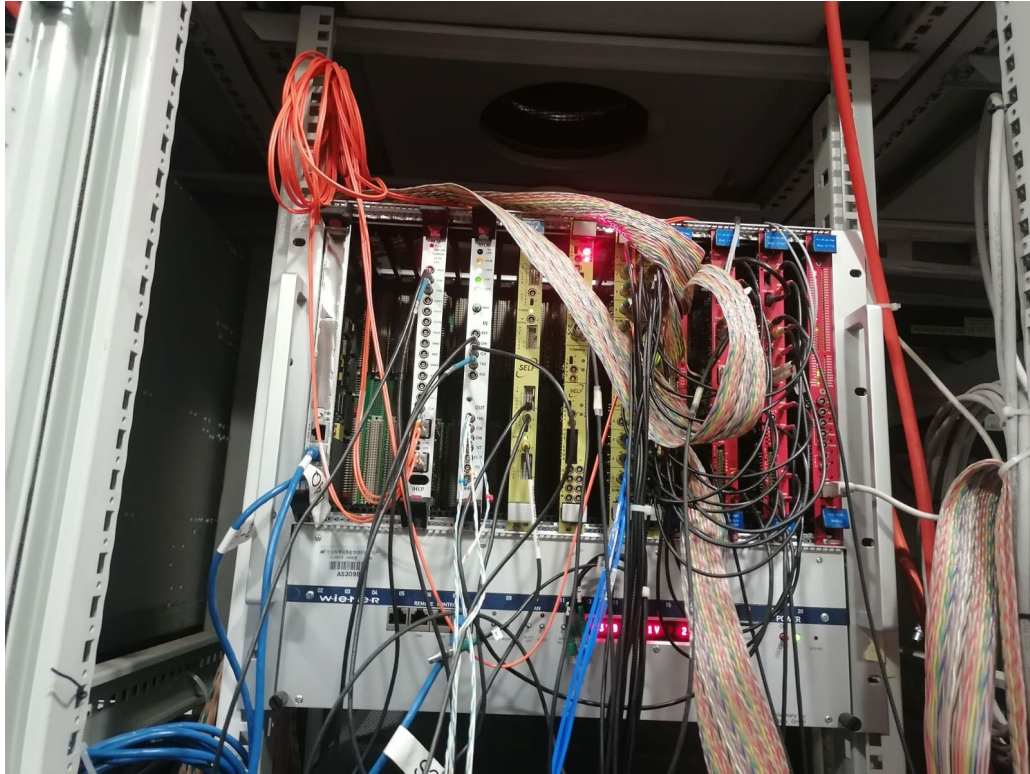
- Powered on at operation values 👍
- H from 35% to 65% (also depending on the weather outside)
- Damiano left August 20
- Ar bottle changed on Friday 23: thanks!
- *Isobutane bottle finished:*
Is it possible to change after the meeting?



CGEM-DAQ

- Pawel changed the firmware of the upper FPGA in the DC BOARD to fulfill the IRQ requirements.
- Pawel flashed the firmware on the DC board in Tingxuan's lab on August 21.
- The first test was fine and also the all night test. Tingxuan will report back.

CGEM DAQ : trigger signal test/ first phase



✓ **Output signals seen @ oscilloscope**

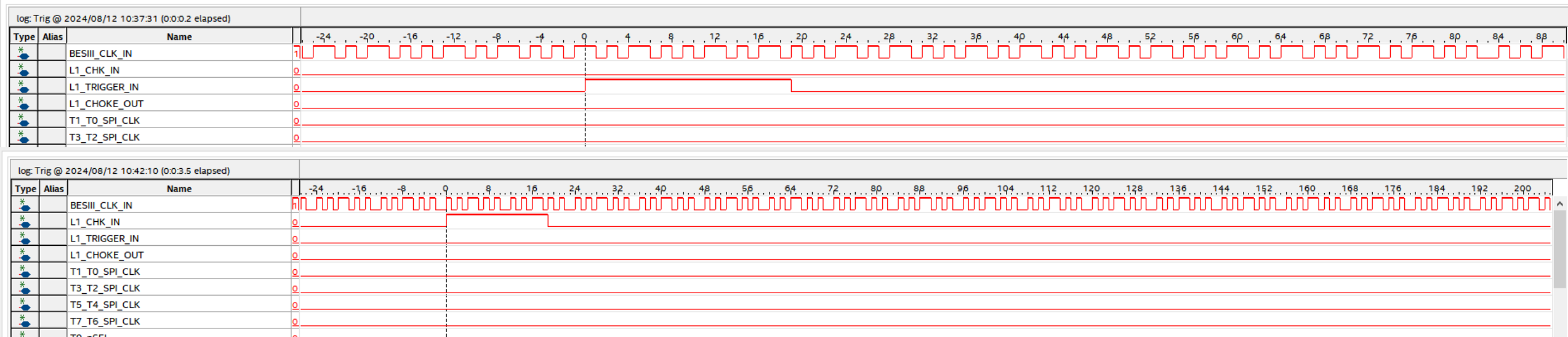
Check CLK, TRG, L1 CHECK signals

DONE shortly after August 12th meeting

Thanks to
Angelo
Jingzhou
Li
Tingxuan

✓ DAQ : trigger signal test/ first phase

Thanks to
Angelo



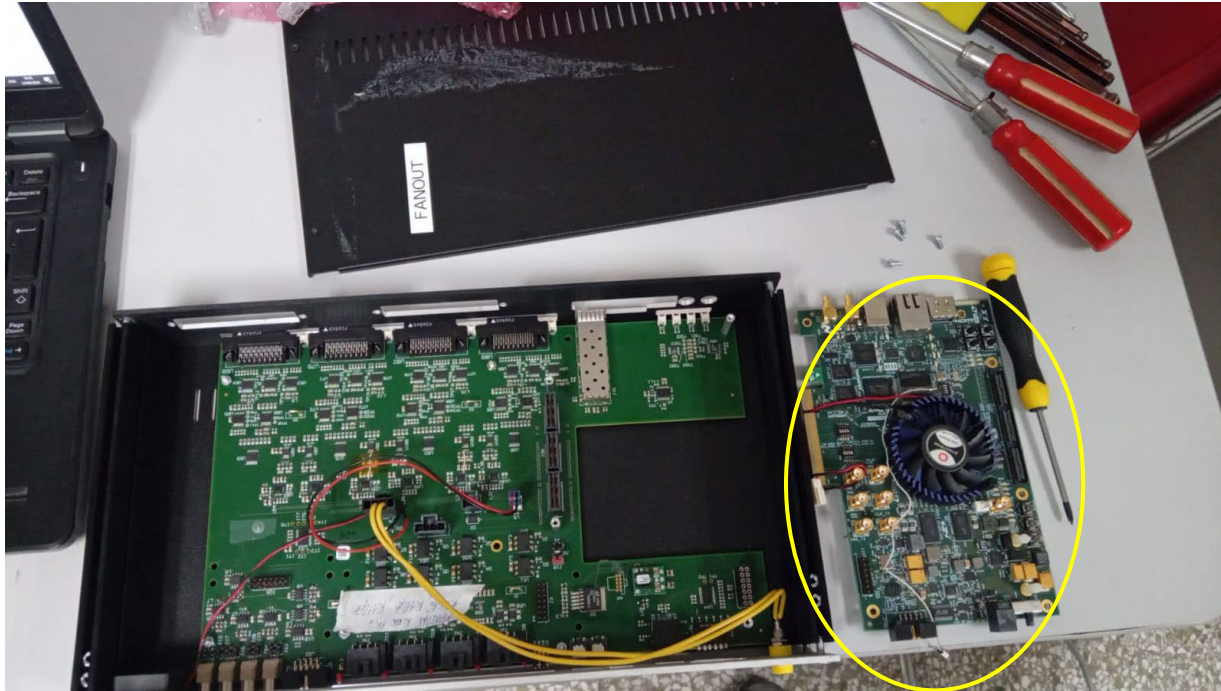
✓ CLK, L1TRG, L1 CHK Signals acquired with SignalTAP using the Fanout MODULE that we use for Cosmic rays data acquisition

The spare FANOUT module used until August 12th morning has **a malfunction of the JTAG interface.**

We will retrieve the spare FANOUT module for the second phase but we need some time because we have to do an HW replacement → **Damiano did**

In the meantime, Tingxuan performed real data acquisition tests (noise data) in 106 @ variable rate [200 Hz-4 kHz]: she will report

✓ FANOUT spare



- JTAG IFC replaced,
- firmware updated:
we are ready to send the full signal.
- Everything ready:
remote operation for the next days

Thanks to
Angelo
Damiano

CGEM-SC updates

End of July:

meeting with Federico & GG for interlock;

Mid August:

I distributed a document with the update of HV power on/off procedure

Work in progress with Si MA: remote operation next days *as soon as the Isobutane bottle is replaced*