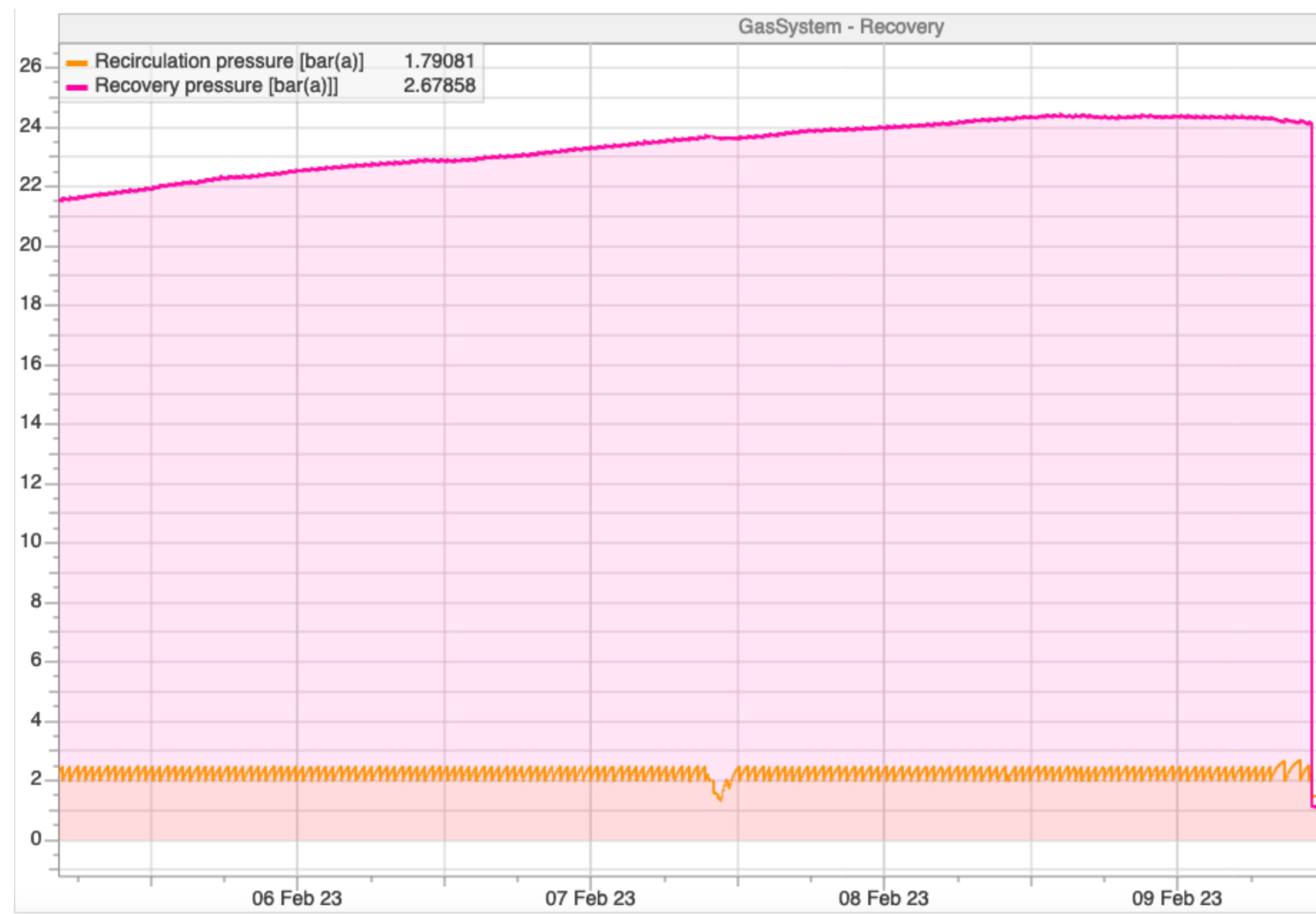


# Meeting CYGNO News

# LIME GAS System

The gas system was restarted but it is showing similar behavior as before:



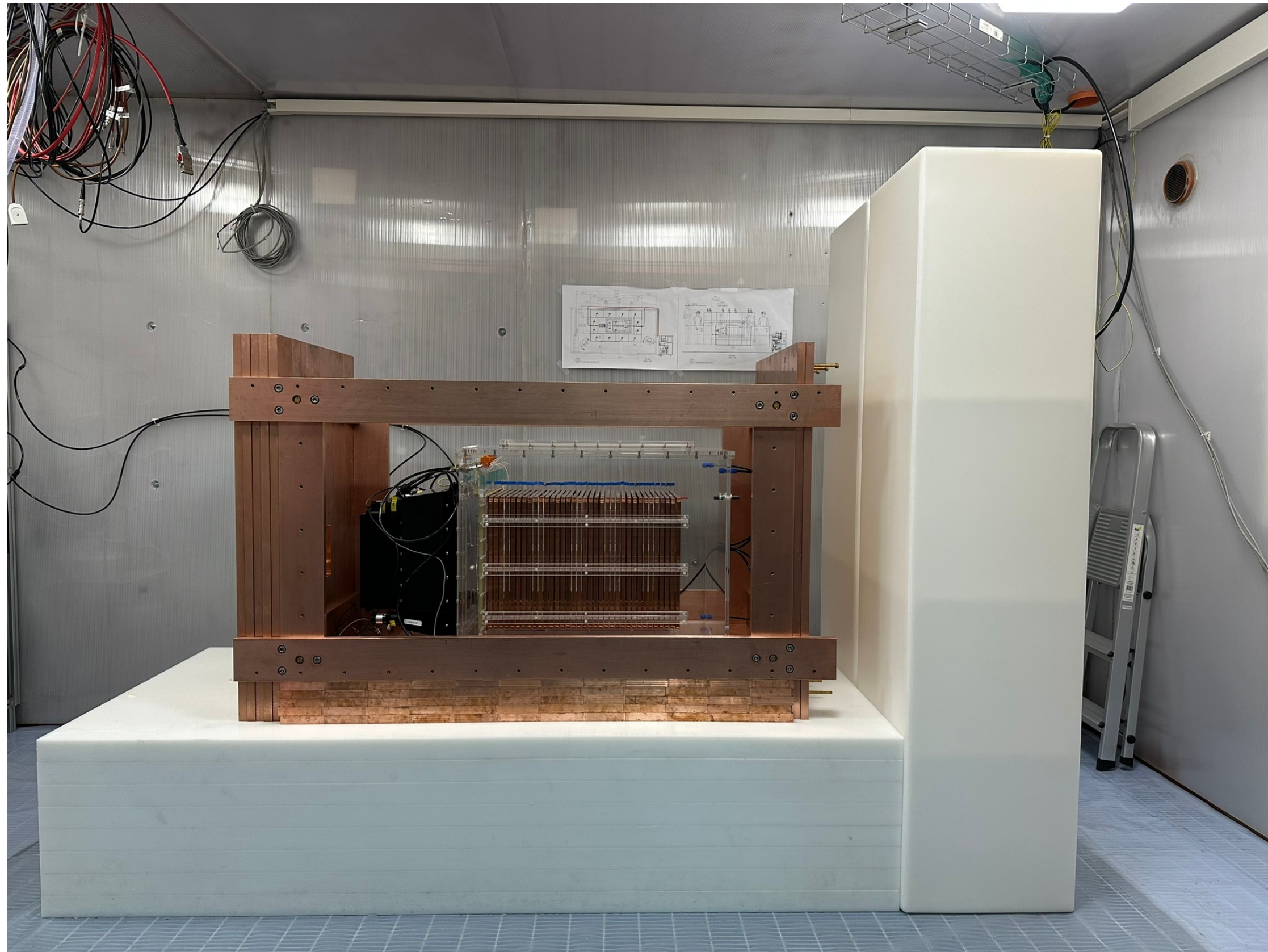
- able to reach 25 bar in the recovery bottle
- then, it reaches an equilibrium;
- bottle changed yesterday

We also know that a small leakage is present on the trolley. To be fixed next week.

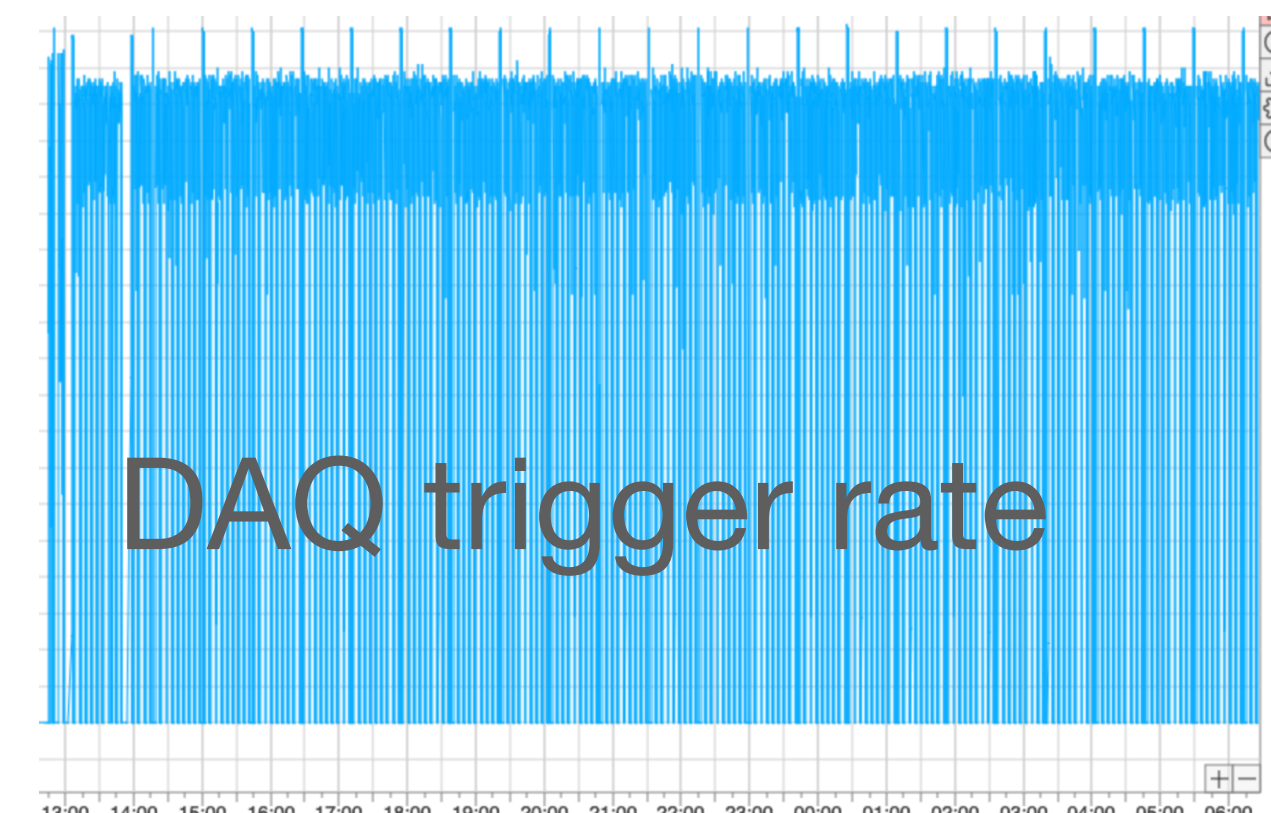


# LIME Run 2: shield layer - 4 cm

In the meanwhile the first layer of copper shield, was completed (we forgot to take pictures)



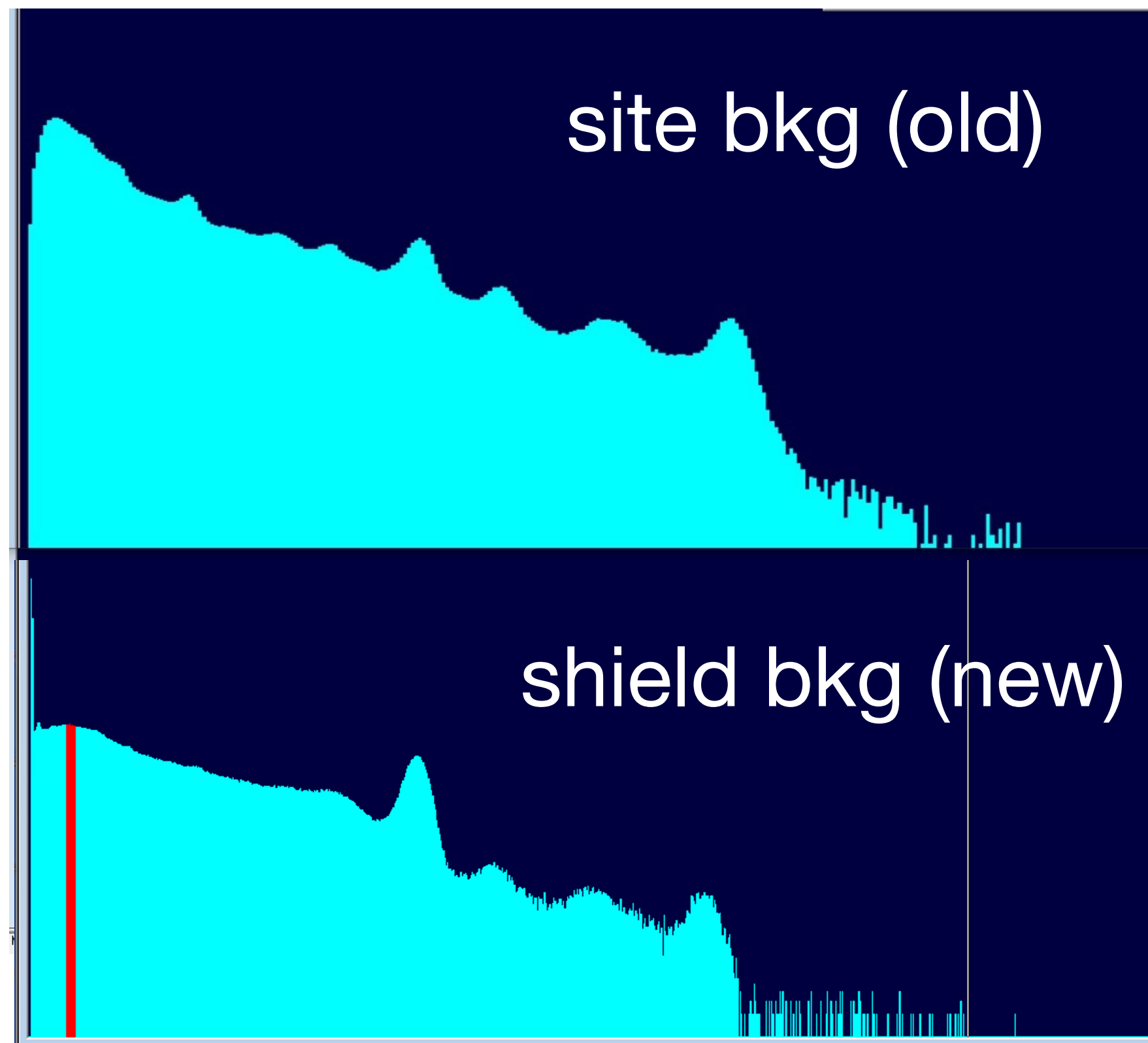
- light tightness was fine;
- optical alignment tools were properly working
- DAQ worked without major issues for 18 hours





# LIME Run 2: Operation

Before the final closure, we are taking data within the copper shield with an NaI crystal, to have an evaluation of the background present



An overall factor 5 decrease was estimated but the  $^{40}\text{K}$  peak seems more prominent





# Next week plans

Monday and Tuesday we'll focus on:

## **DAQ**

check acquired data and fix possible (some were already found) bugs;

introduce the DGTZ correction algorithm;

test a stable Middleware version to data quality check;

## **Detector**

take 1h data with NaI removing the Camera;

fix the gas issue;

extract the NaI, close the Cupper and cross check the light tightness with the camera on place.



# Start of Run 2

Wednesday we'll start the Run 2 operation:

- align the camera;
- take  $^{55}\text{Fe}$  calibration data;
- take background data and monitor the behavior of the detector, data acquisition, data quality monitor and all tools;
- shifts will also start on Wednesday:
  - local: from the morning (likely covered by experts);
  - remote from the afternoon (good moment to learn);
- Shifts will be soon bookable on a web page (beta version);