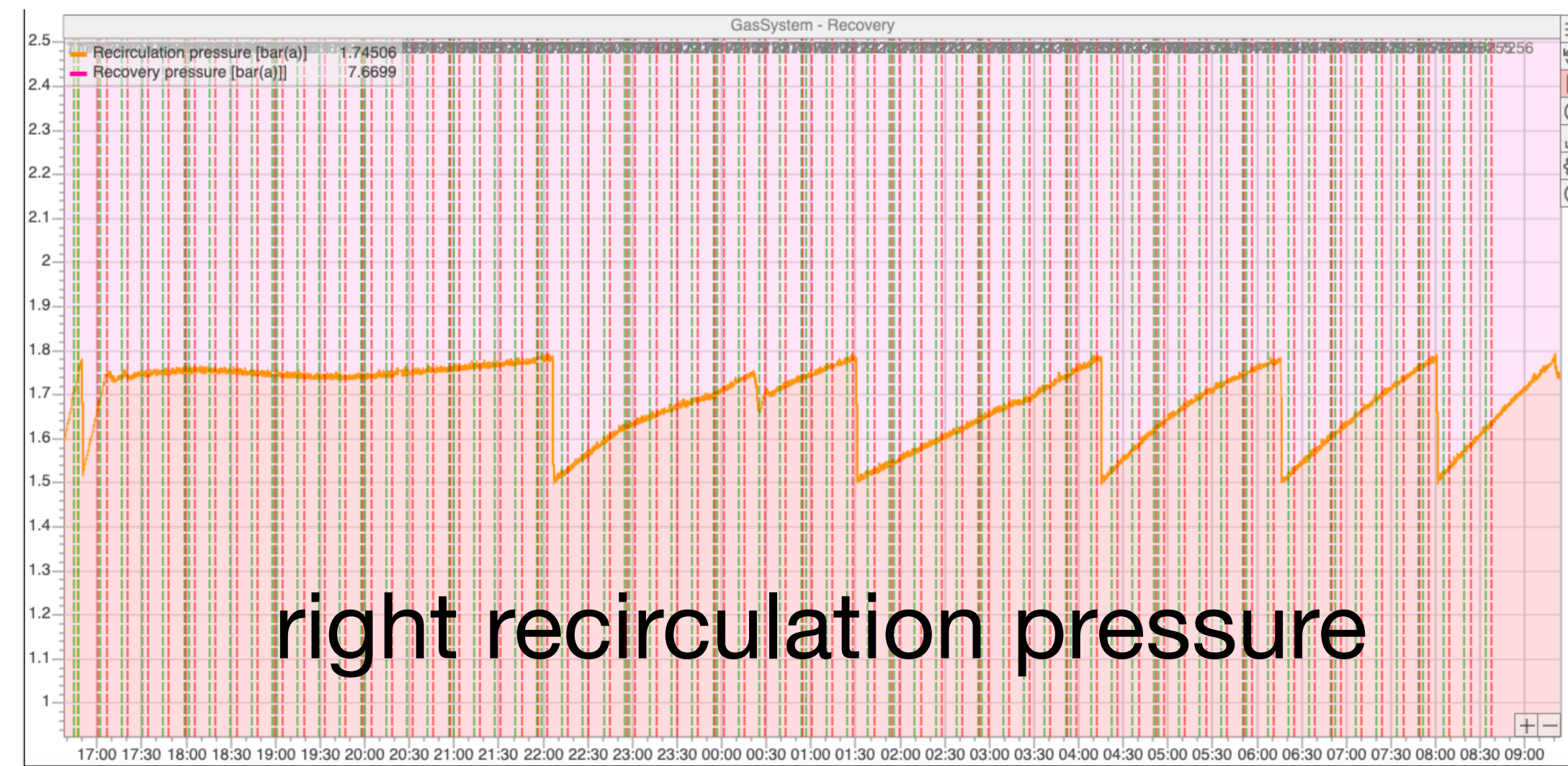
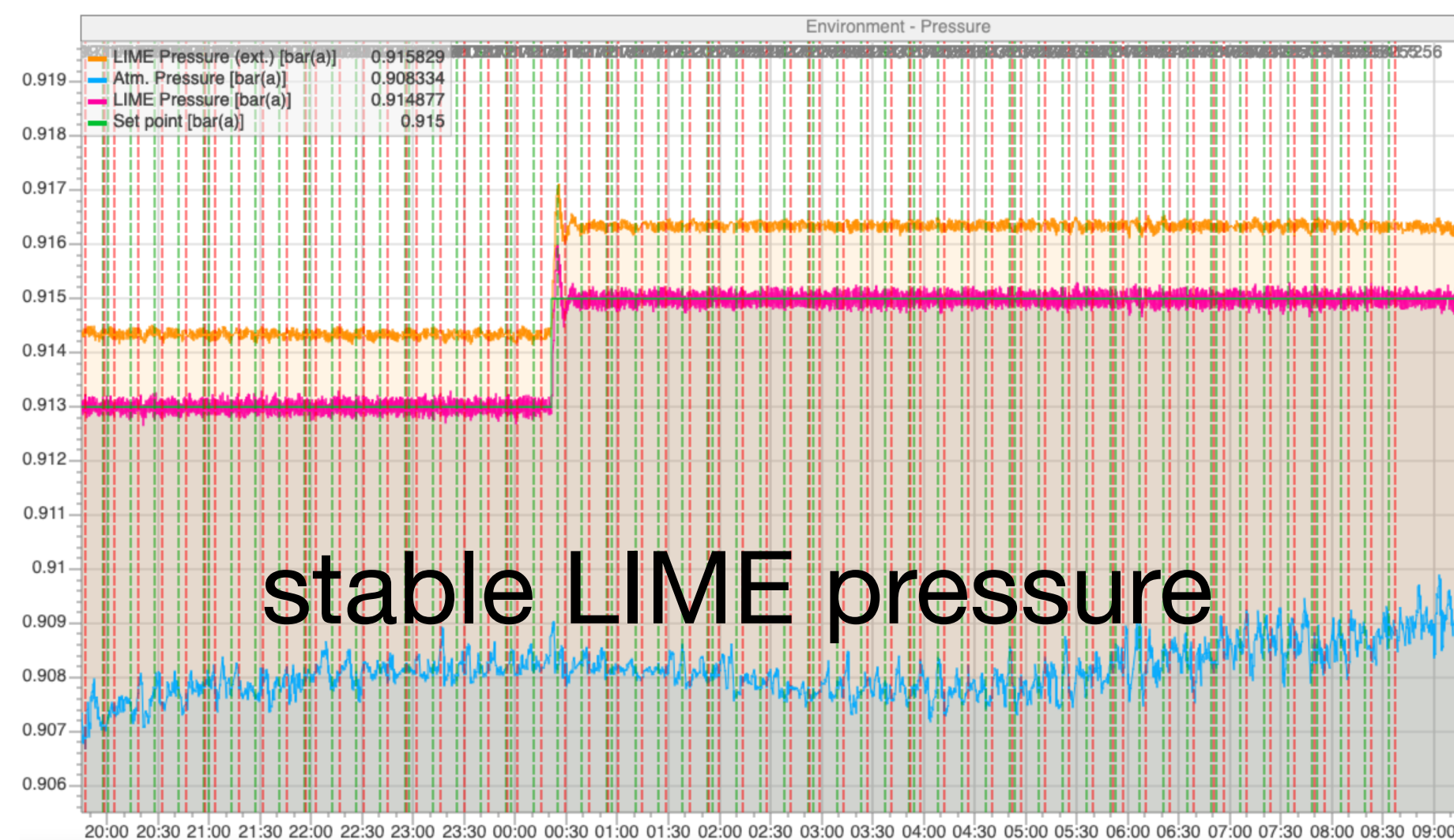
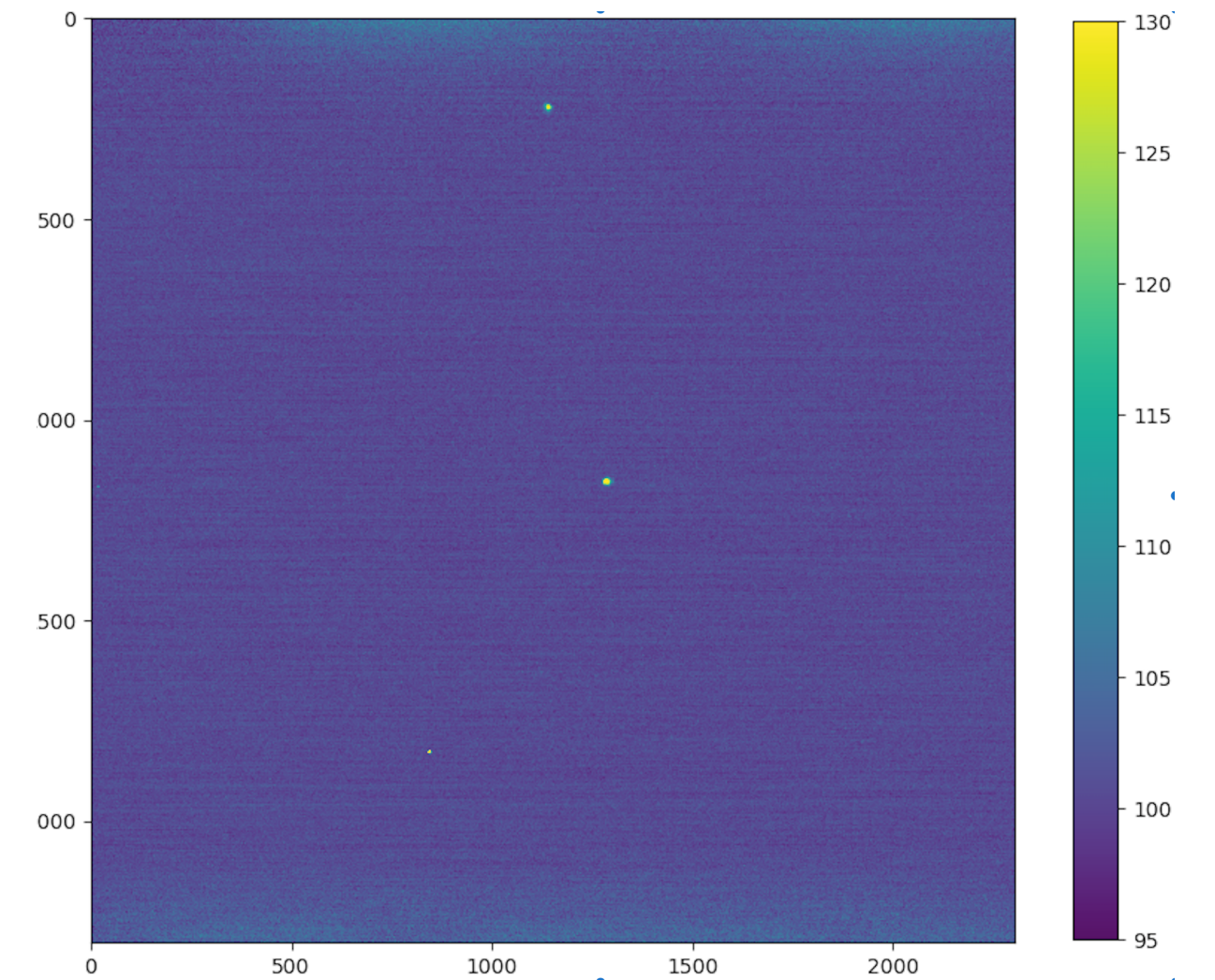


# Meeting CYGNO News

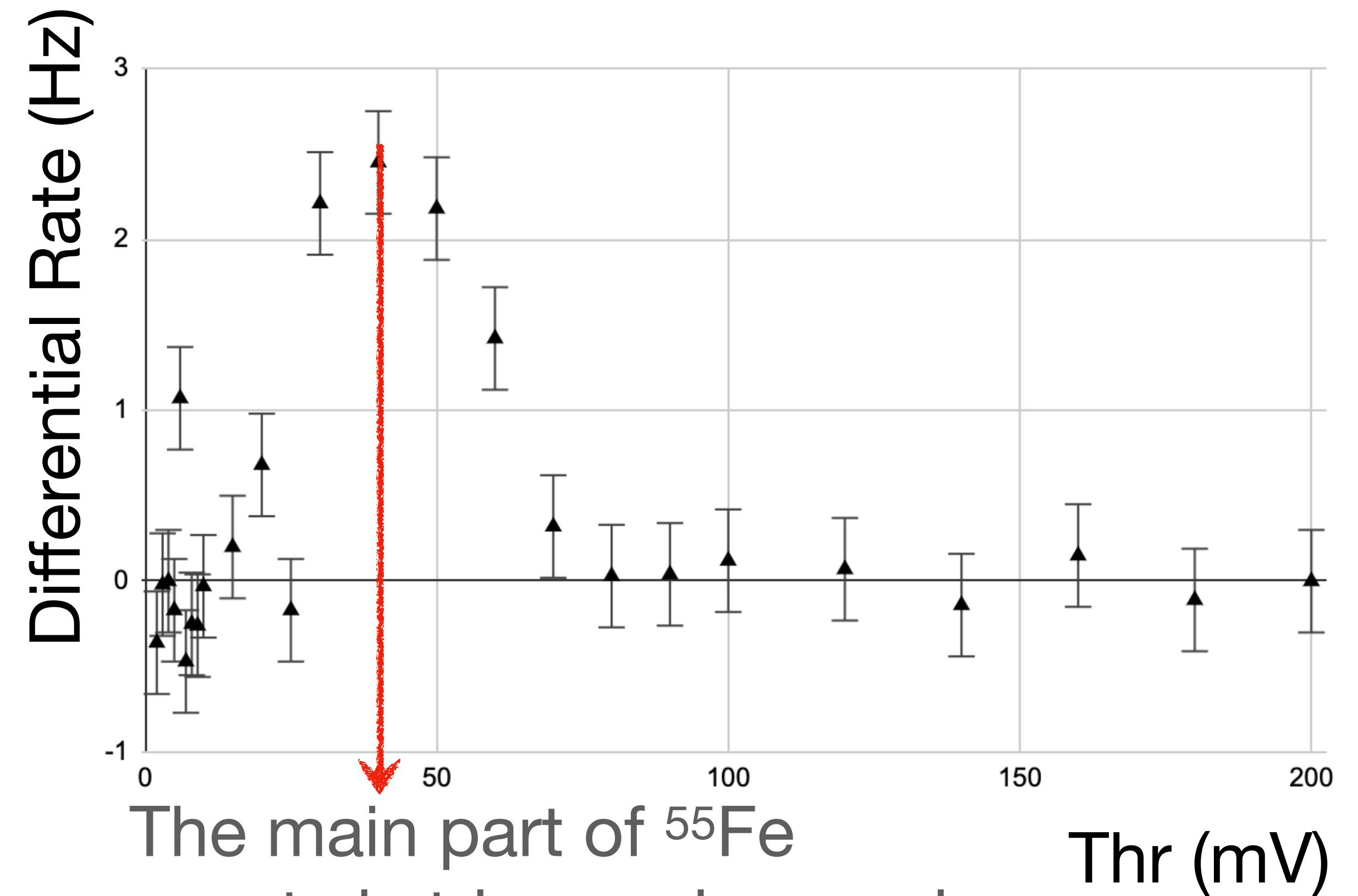
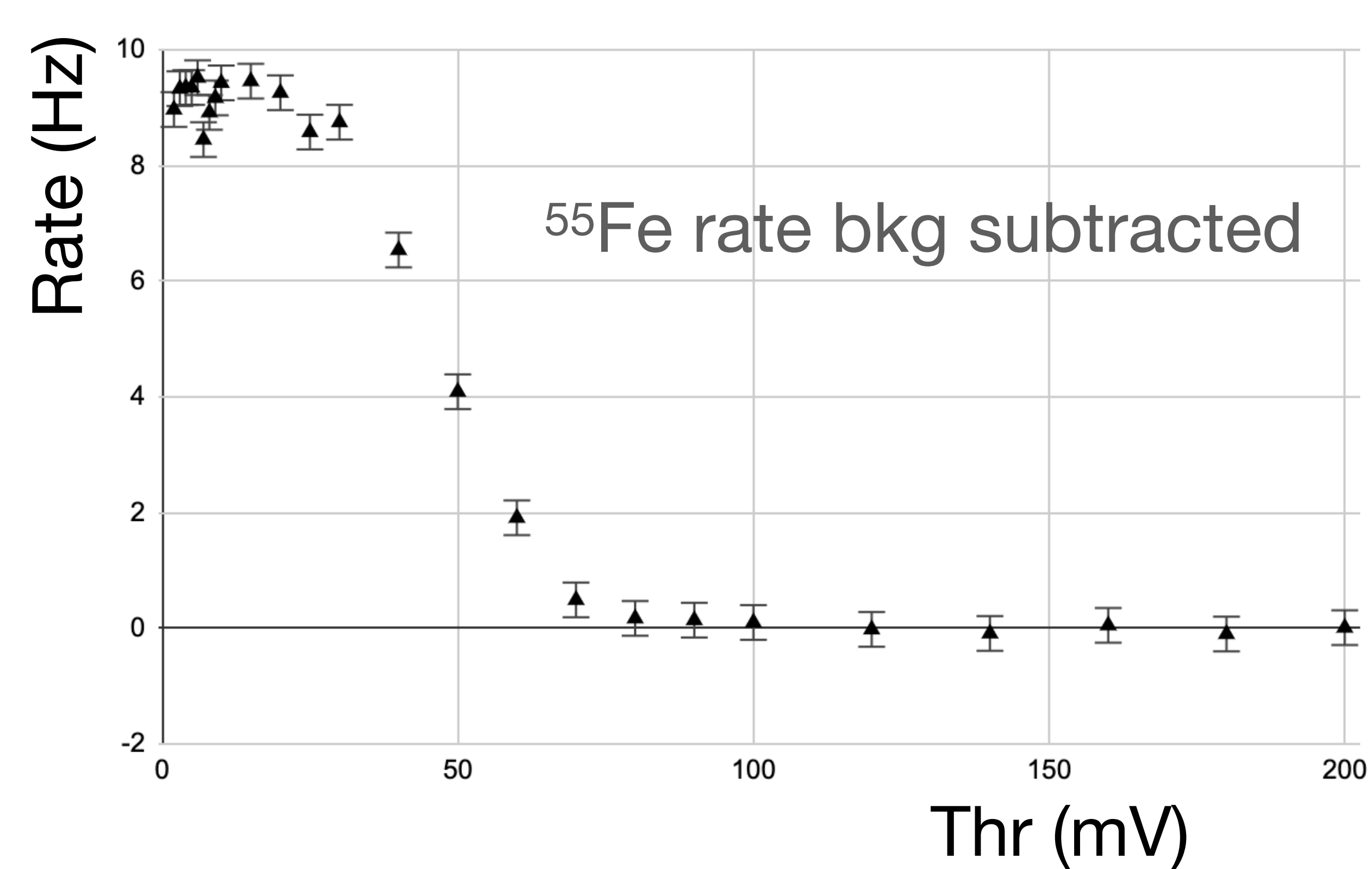
# LIME: status

- After few day of gas flux, yesterday we turned On the GEM
- At 440V we have a light yield similar to Run2 (quantitative analysis to be done);
- We studied the trigger rate behavior with and without  $^{55}\text{Fe}$  source (next slide);
- We left with 5 l/h flux + 20 l/h recirculation;



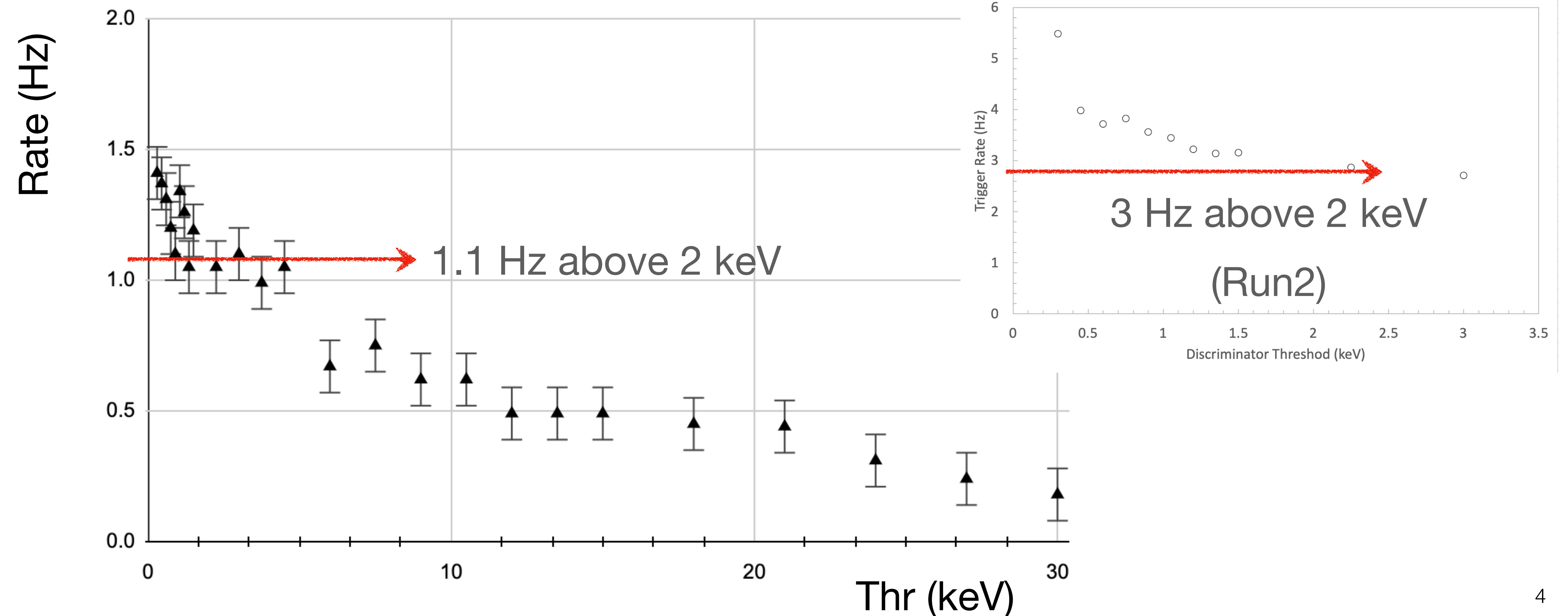
# LIME: Trigger study - $^{55}\text{Fe}$

- Trigger (at least 2 PMTs over-threshold) rate was studied as a function of threshold



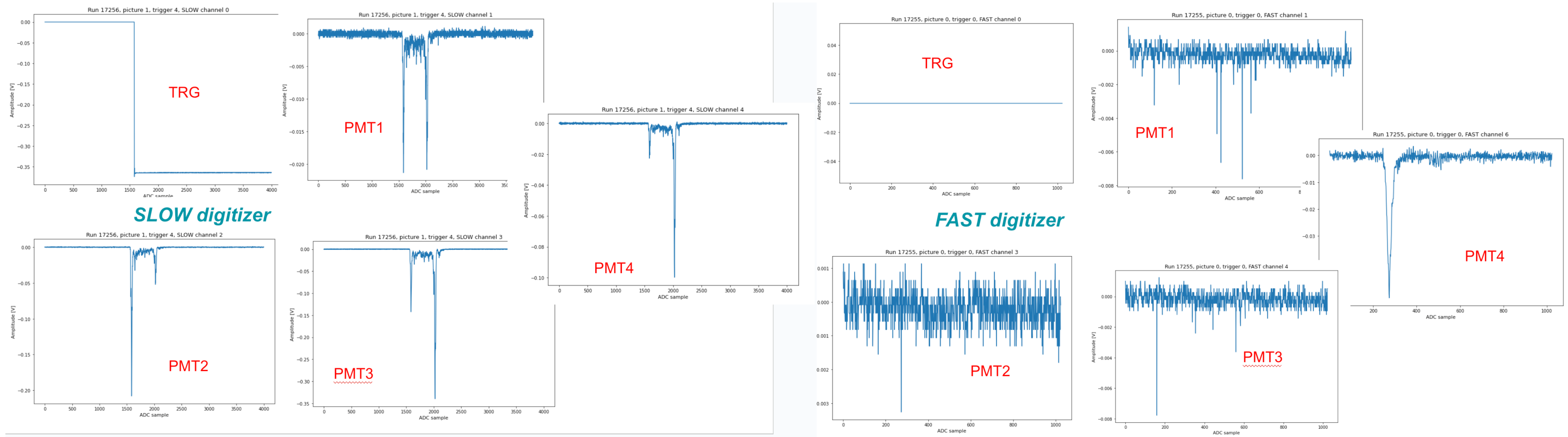
# LIME: Trigger study - $^{55}\text{Fe}$

- Trigger (at least 2 PMTs over-threshold) rate was studied as a function of threshold



# LIME: DAQ

- Images seems fine. We left sequence of  $^{55}\text{Fe}$  and pedestal runs yesterday to study the stability of the light yield. Reconstruction (Automatic) needed to set the working point.



- PMT signals are acquired except the ones on Fast DGTZ probably for an issue with connector fixed today by Roberto and Daniele. To be tested in next hours.

# LIME: status and plans

- **10 cm copper shield installed;**
- Still issues with gas system (too high humidity level 4-6%)
- We are anyway commissioning the system to start Run3 next Monday;
- AmBe source available from around May the 15<sup>th</sup>

## May 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12	13
	Commissioning and calibration with <sup>55</sup> Fe					
14	15	16	17	18	19	20
	AmBe					
21	22	23	24	25	26	27
	Background and calibration with <sup>55</sup> Fe					
28	29	30	31			
	Background and calibration with <sup>55</sup> Fe					

- So, please, fill the shift booking page

# Analysis and Simulation coordination

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In the last analysis and simulation meeting we presented a list of tasks we think are needed to proceed on these processes;

This came as a consequence of the strong request by INFN to present in July:

- LIME bkg data should be **analysed** in details and should arrive to the **final results**;
- we should provide a more solid and complete **data-MC comparison for LIME**;

We asked people to indicate possible tasks of interests or add missing ones.

Only few names were indicated (thanks to them) and in particular on the analysis work 90% of indicated tasks are empty:

- 1- nobody is interested in studying, reconstructing, analysing the data we are collecting?
- 2- nobody cares about coordinating their activity with other people in the collaboration?