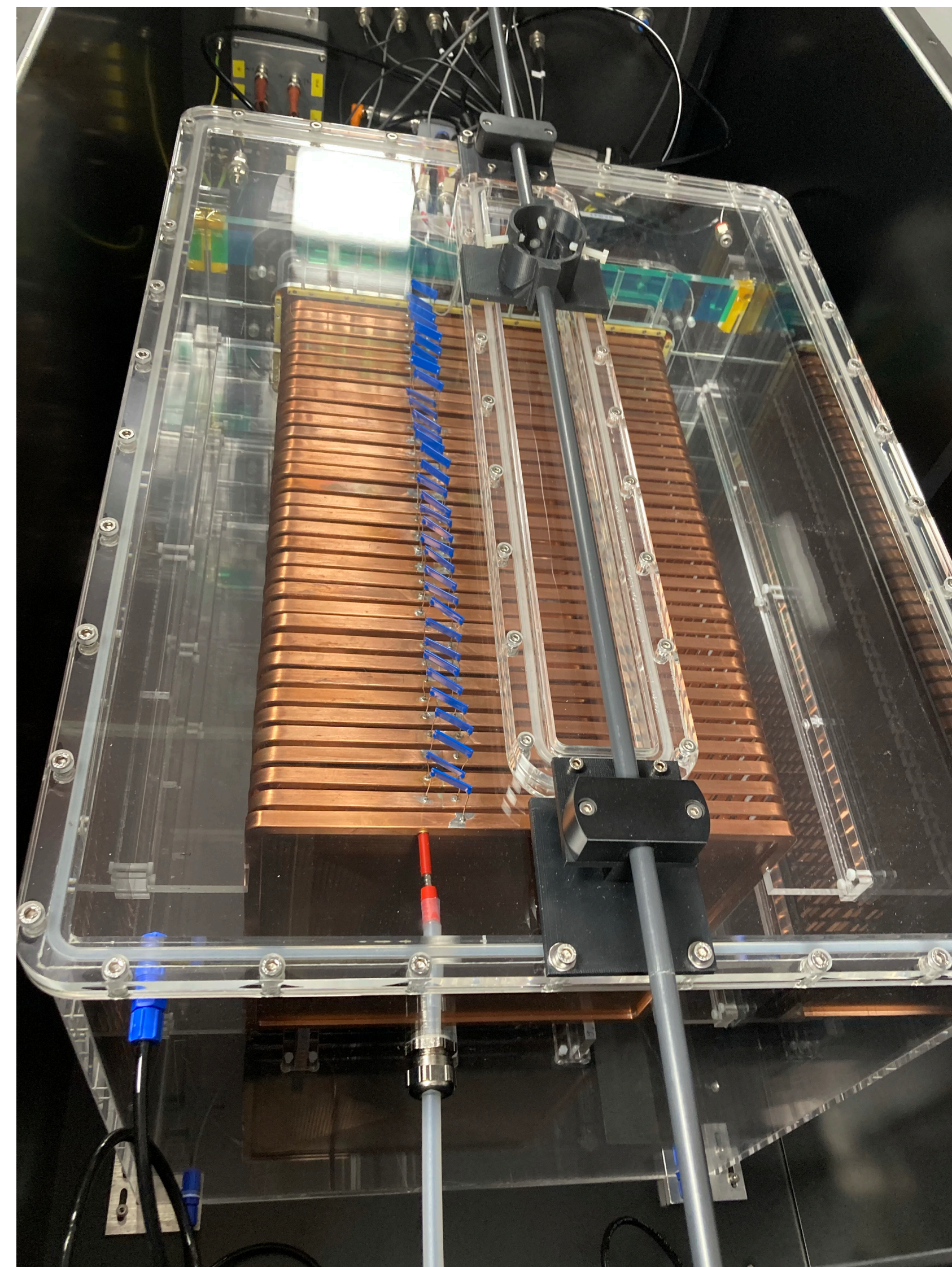


RUN 4 status & plans

Stefano Piacentini

General Meeting

11/01/2024



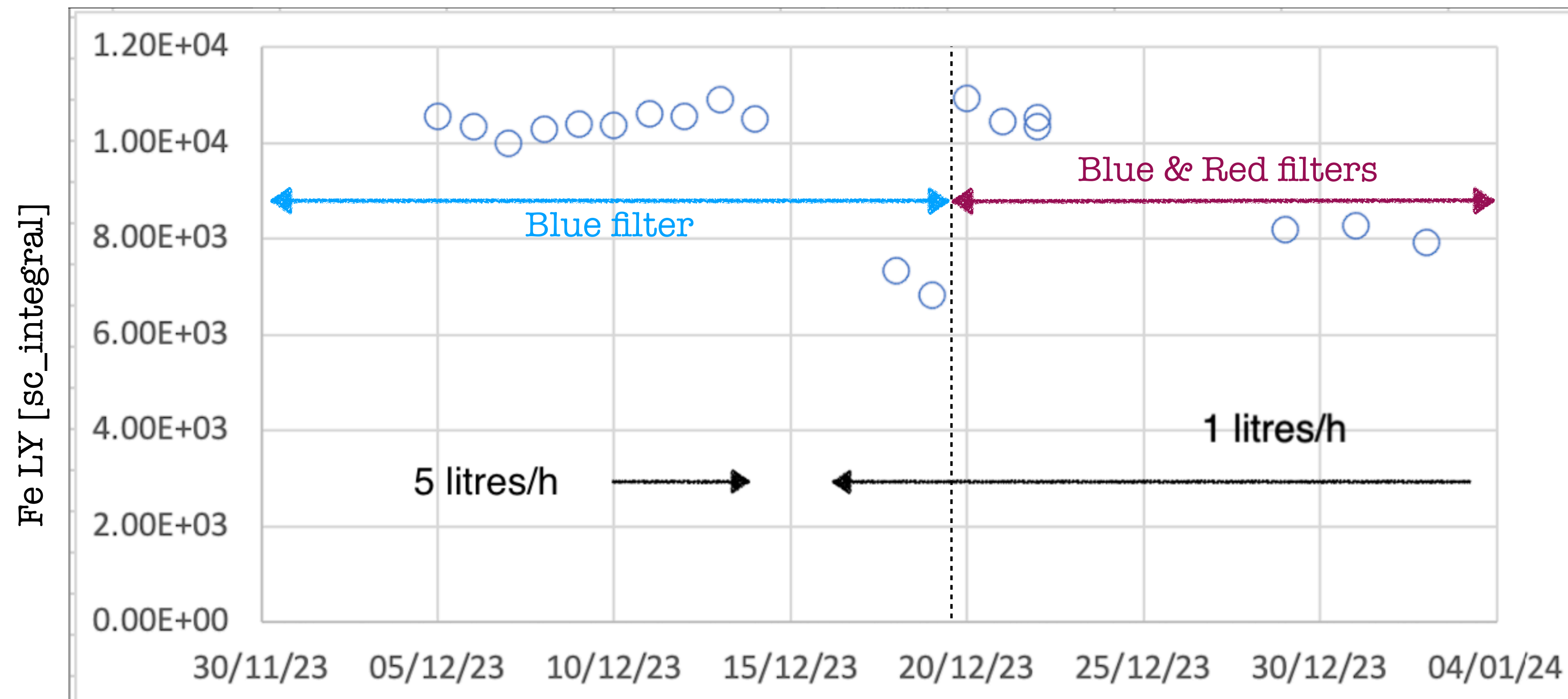
RUN 4 - Summary

Start	Stop	Numbers			Description	Data runs	Data pics	Gas Flow	Filter Line 1	Filter Line2
2023-12-01 15:08	2023-12-04 9:39	40784	-	40917	Stability	133	53200	5	Blu	Not in use
2023-12-04 10:23	2023-12-14 16:40	40919	-	42848	Bkg + Daily Calibrations	1929	771600	5	Blu	Not in use
2023-12-14 18:07:07	2023-12-16 10:17:27	42863	-	43185	Bkg + Daily Calibrations Low GAIN	322	128800	5	Blu	Not in use
2023-12-16 23:50:59	2023-12-17 21:53:14	43186	-	43231	Stability + Daily Calibrations- LOW Gas Flow : 2 l/h	45	18000	2	Blu	Not in use
2023-12-17 22:45:16	2023-12-22 16:18:47	43232	-	43308	Stability + Daily Calibrations- LOW Gas Flow : 1 l/h	76	30400	1	Blu	Not in use
2023-12-17 22:45:16	2023-12-22 16:18:47	43316	-	43486	Stability + Daily Calibrations- LOW Gas Flow : 1 l/h	170	68000	1	Blu + Rosso	Not in use
2023-12-31		43502	-	43508	Daily Calibration			1	Blu + Rosso	Not in use
2024-01-02		43509	-	43515	Daily Calibration			1	Blu + Rosso	Not in use
2024-01-04		43517	-	43522	Daily Calibration			1	Blu + Rosso	Not in use
2024-01-06		43524	-	43529	Daily Calibration			1	Blu + Rosso	Not in use
2024-01-08		43531	-	43536	Daily Calibration			2	Blu + Rosso	Not in use
2024-01-10		43636	-	43641	Daily Calibration			2	Blu + Rosso	Not in use
2024-01-08 12:00:15		43537	-		Stability + Daily Calibrations- LOW Gas Flow : 2 l/h		0	2	Blu + Rosso	Not in use

- ~ **9 days** of continuous **background data taking**
- ~ **1 day** of **background data** in **low gain** configuration [GEMs @ 400 V]
- **Scan in VGEM1**
- Test of tightness and LY stability @ **low gas flow**

RUN 4 - Summary [during holidays]

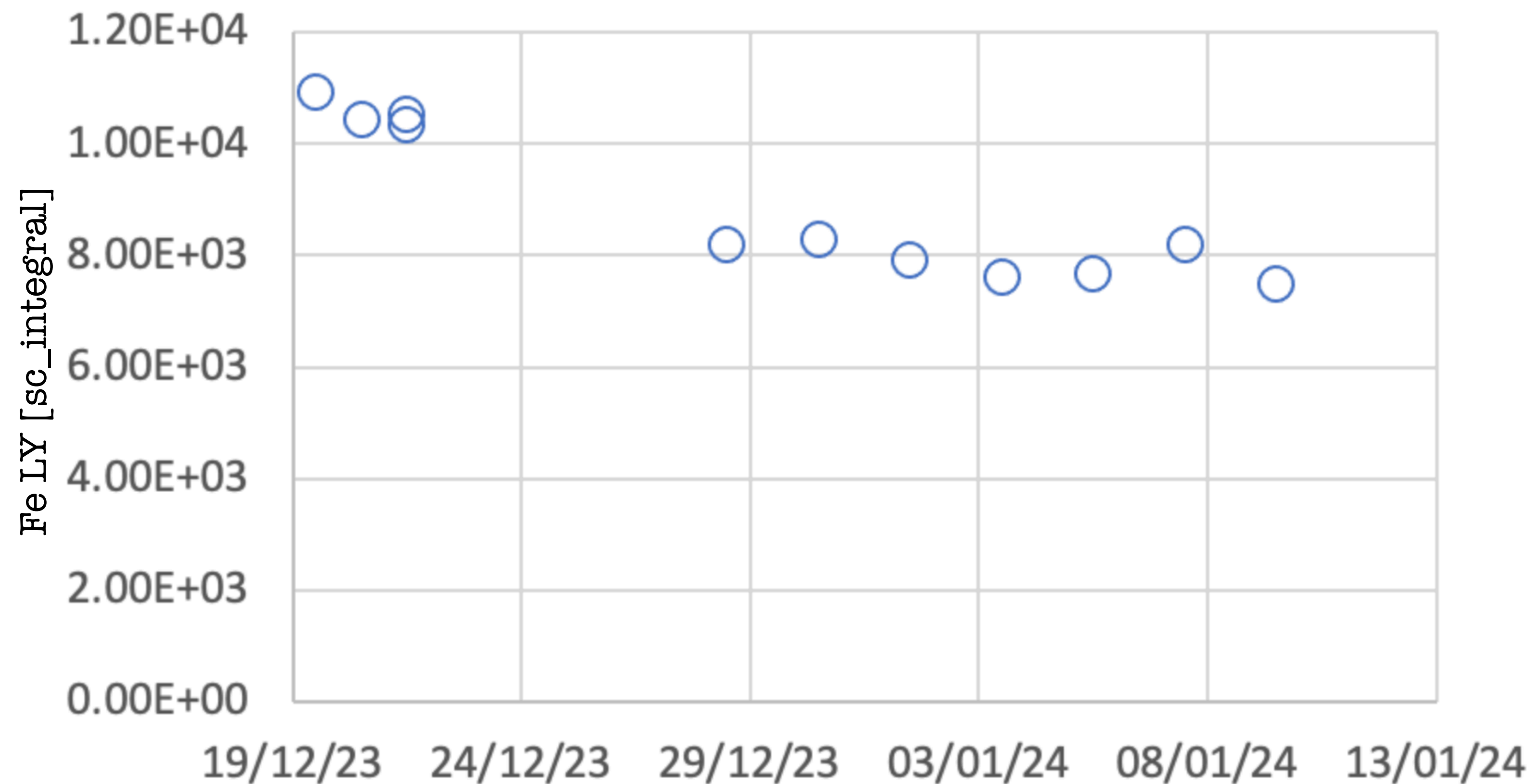
- **Detector operated @ 1 l/h**
- **Several Fe scan to sample the LY during this period**



LY slowly
decreasing over
time \Rightarrow we decided
to increase the gas
flow to 2 l/h

RUN 4 - Summary [during holidays]

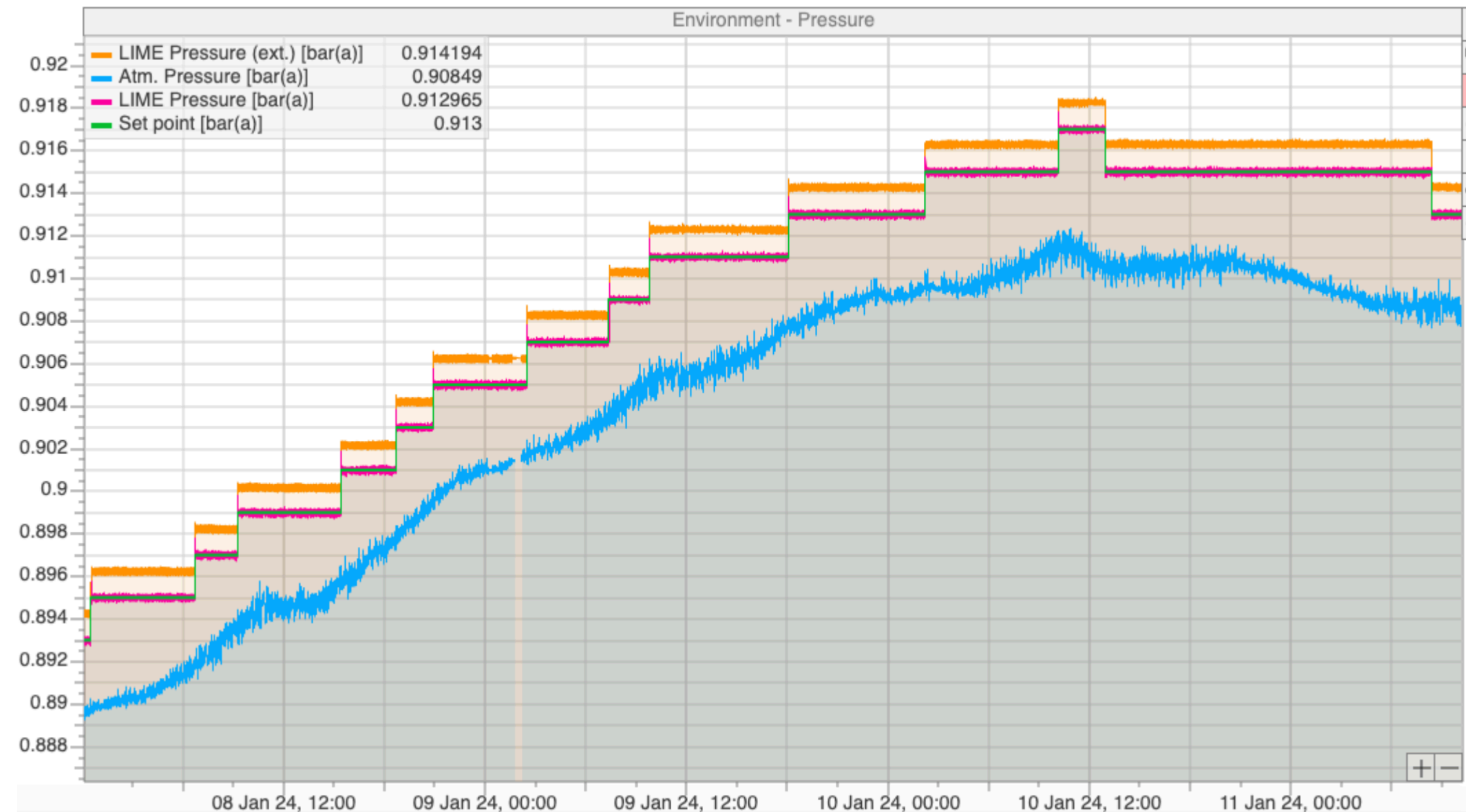
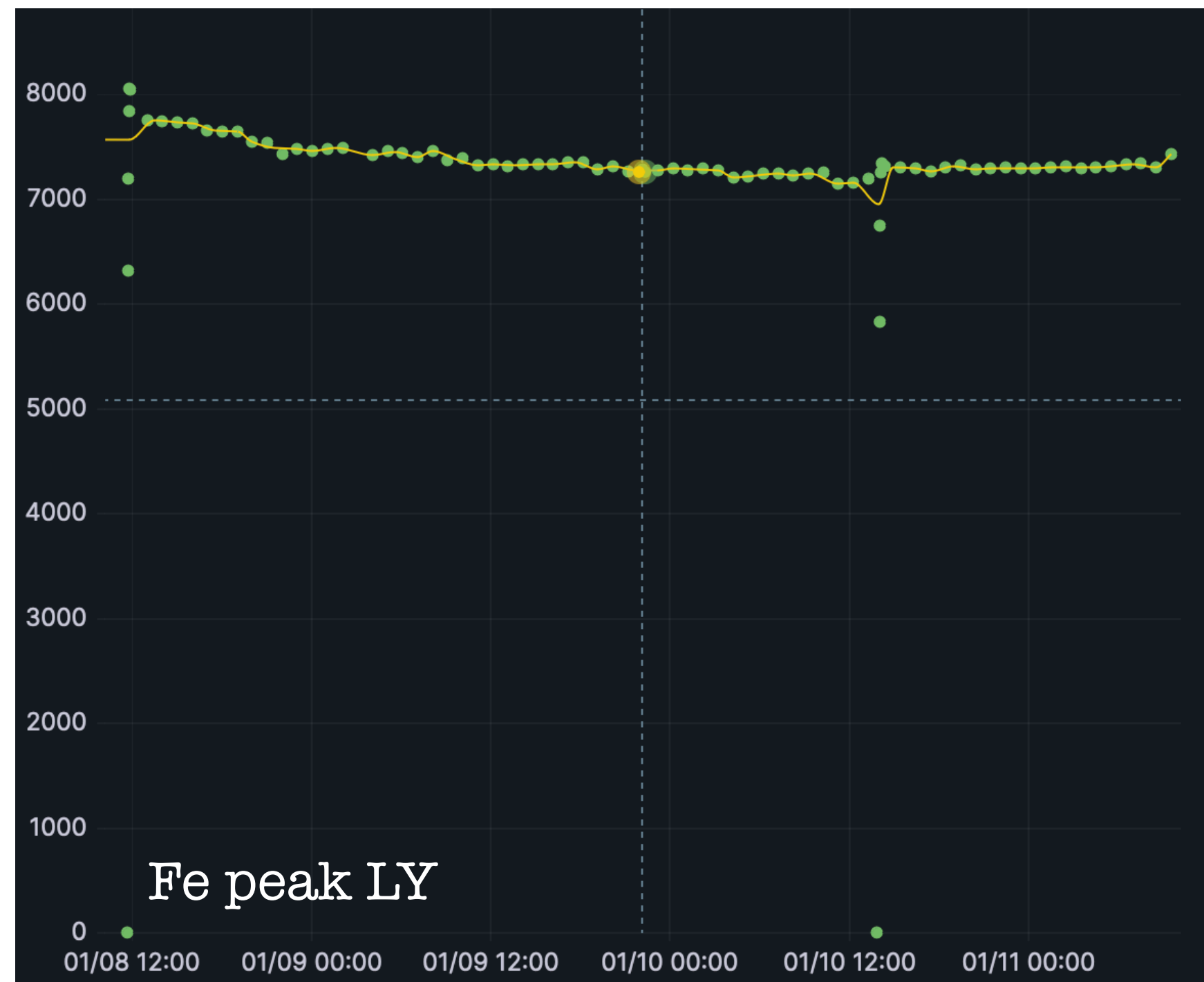
- Detector operated @ 1 l/h
- Several Fe scan to sample the LY during this period



LY slowly
decreasing over
time \Rightarrow we decided
to increase the gas
flow to 2 l/h

RUN 4 - Summary [after holidays]

- **Detector operated @ 2 l/h**
- **Stability data taking:** 1 run with Fe at Step #3 ($z = 25$ cm) once per hour since January 8th



- Possible correlation with pressure, still investigating

RUN 4 - Plans

- After today's technical operations, we need some days to recover a stable condition
- Therefore, following the schedule, the plan is to **start the background campaign on the 15th of January** (next Monday)
- The plan is to collect **two months of data in the RUN4 configuration**, until the **15th of March**.



- **Don't forget to book the shifts on the usual [spreadsheet](#)!**