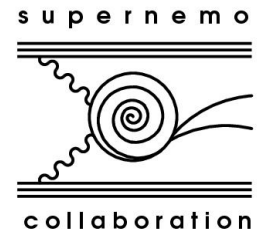


Running status

Xalbat



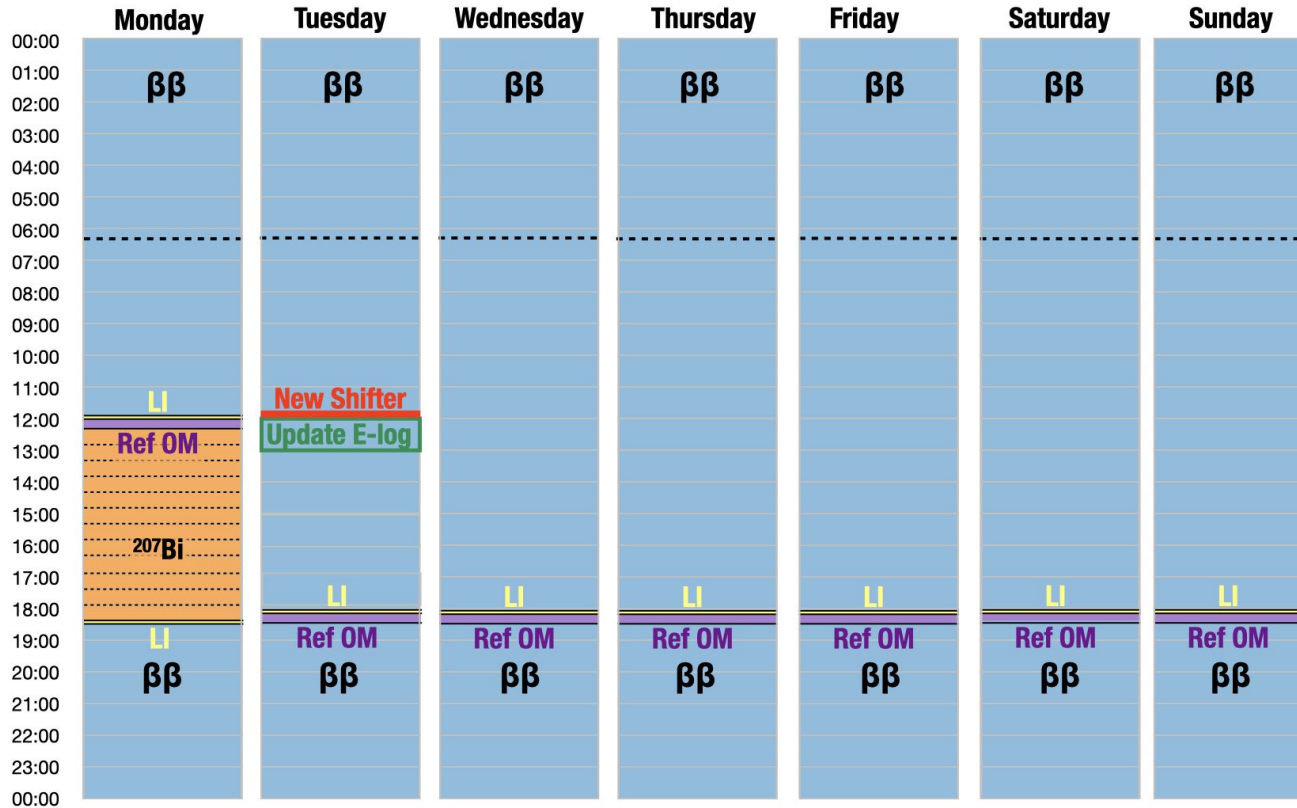
Best way to start the meeting, Manu's favorite animal

Best way to start the meeting, Manu's favorite animal



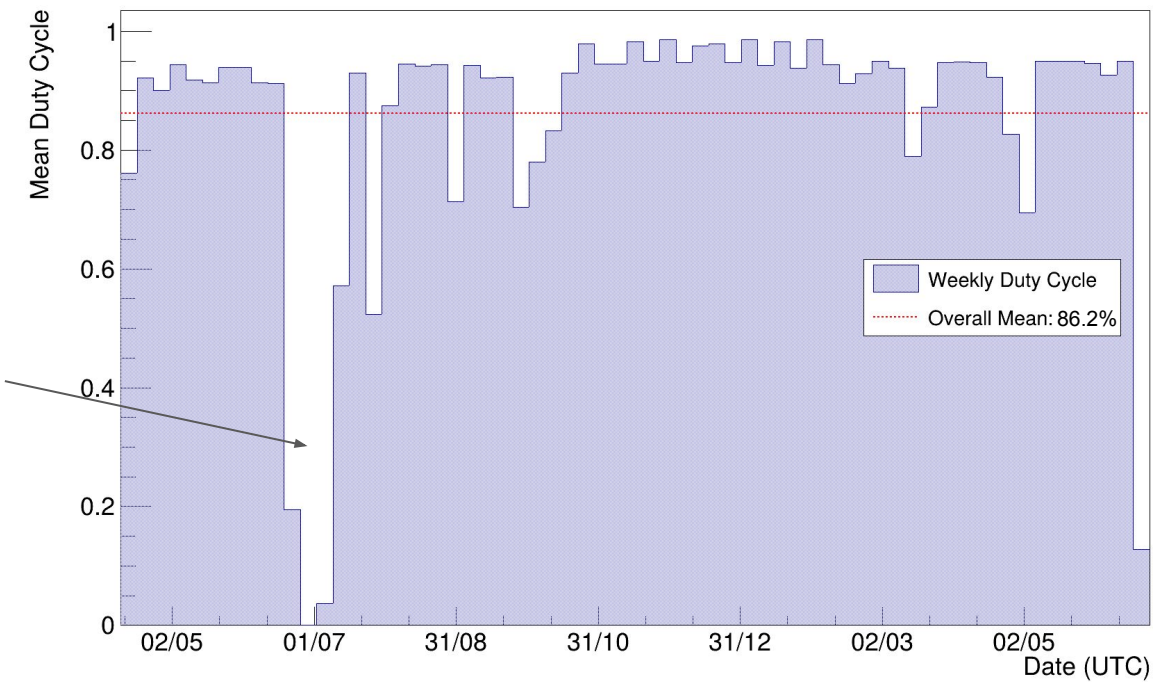
Detector performance

Usual week data taking timetable



Ideal week: 96% of □□ data taking

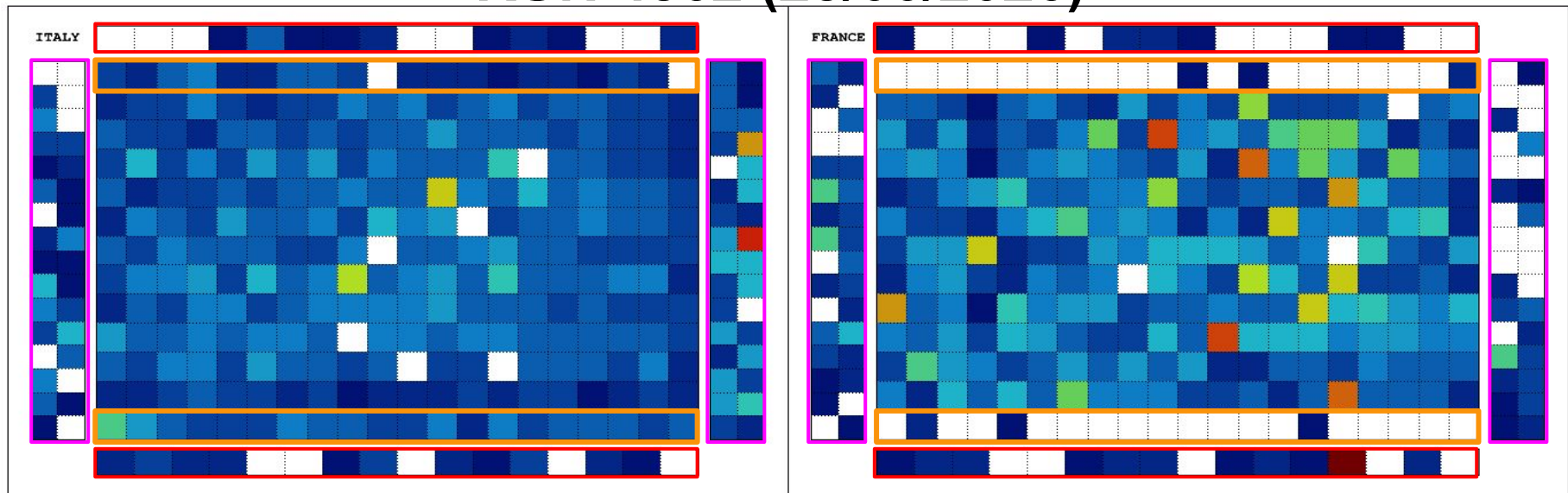
Bi sources stuck



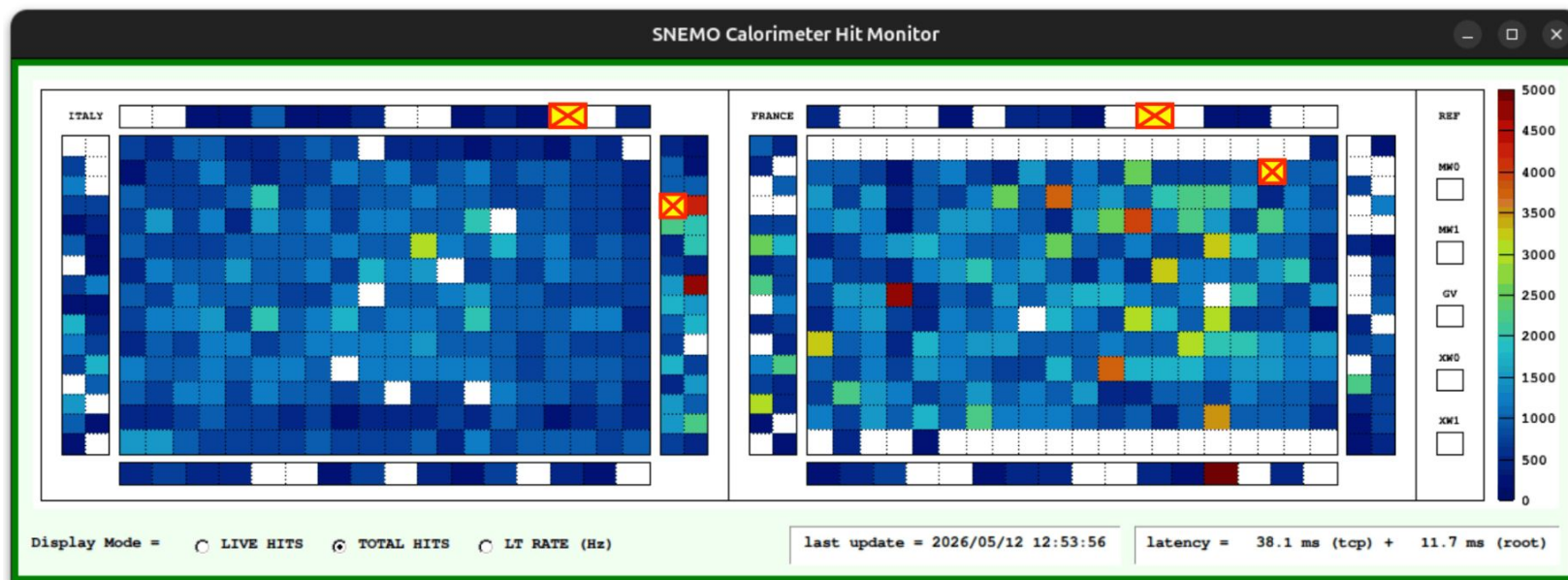
Total duty cycle: 86% of □□ data taking over 427 days
-> 6.14 kg.y of ⁸²Se

Warning:
During your shift, restart data taking PROMPTLY after the calibration runs (set a timer)

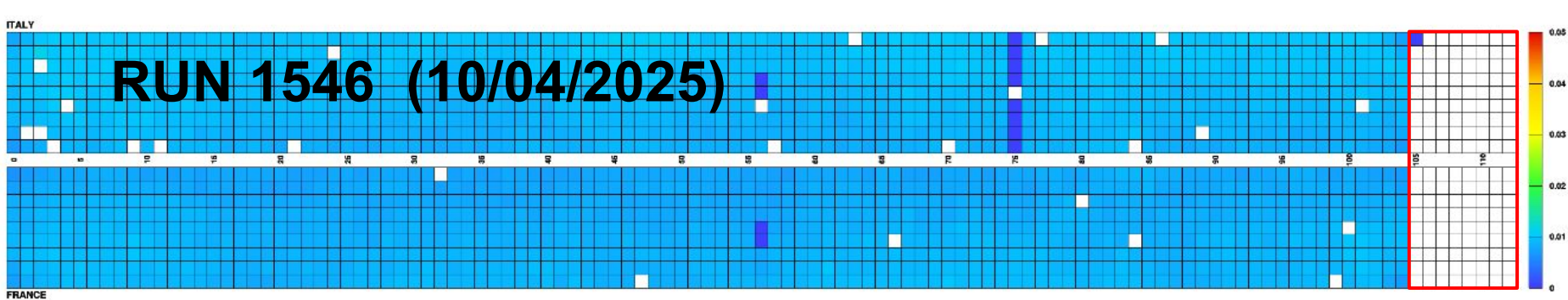
RUN 4862 (28/06/2026)



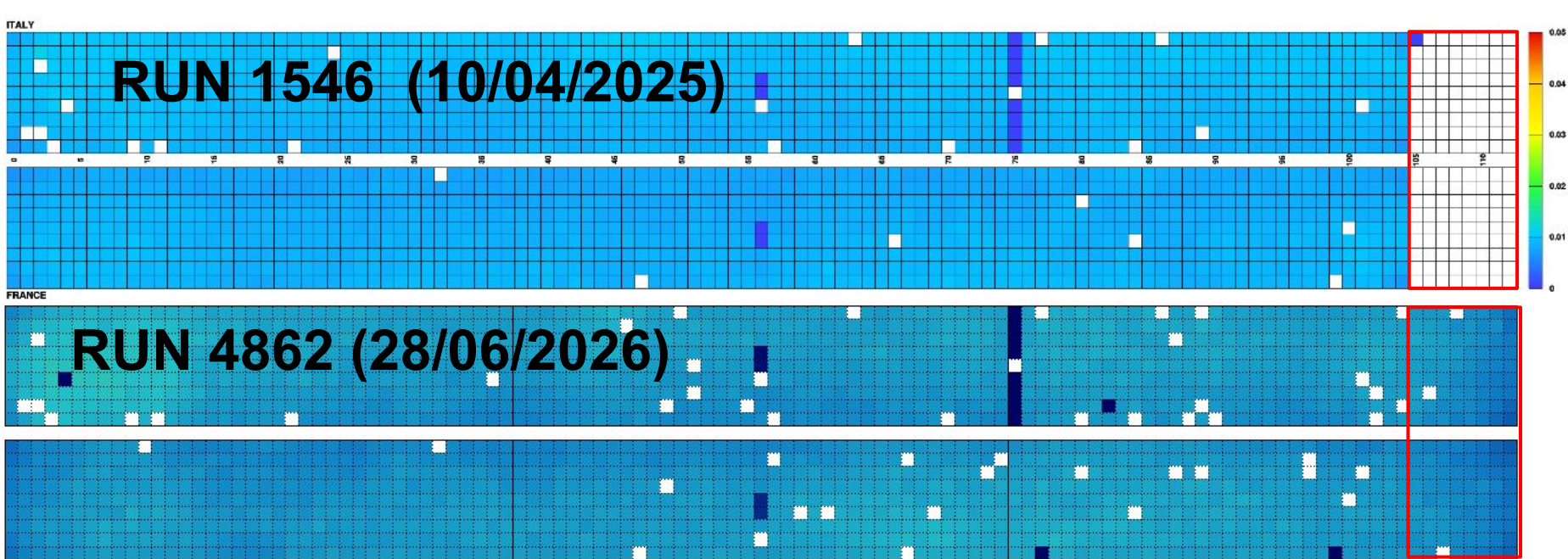
Beginning of data taking: 41 dead OM (8x MW8" + 22x MW5" + 7x XW + 4x GV)
Now: 113 dead OM (9x MW8" + 36x MW5" + 32x XW + 26x GV)
Most of the MW8" are stable, but the 5" are dying. 12 dead since Frimley !



5 died in the same week! (~19 may)
~2 month after LSM send no air into the anti radon tent (see Christine's talk)
Is that the reason or is it random coincidence?



Beginning of data taking: 38 missing and 144 off



Beginning of data taking: 38 missing and 144 off
Now 73 missing (16+ since Frimley)

Data taking phases

PHASE	DESCRIPTION	DATES	RUNS
0	High common thresholds > 300 keV + 7% tracker missing	10 April – 22 May 2025	1546 - 1798
1	High common thresholds > 30 keV + 7% tracker missing	23 May – 10 June 2025	2011 - 2183
2	High common thresholds > 30 keV + full tracker	09 July – 25 October 2025	2683 - 3467
3	PHASE 2+ Low Rn activity	25 October - NOW	3470 -

Up to now, we had 4 phases

Is the instability of the Rn activity a new phase? Or are we still in phase 3?

Do we have plan for a new phase?

State of the shift

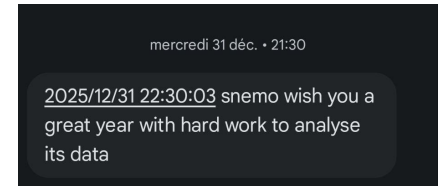
How to register for the shift?

Put your name on the following document:

<https://box.in2p3.fr/s/HLXxdRDGimdmaLK>

It's recommended to find a backup shifter in case of emergencies
The backup shift doesn't count as a shift

During the shift, you're responsible to act in case of emergencies, so
you should **be able to easily access your computer and phone**



You even receive message for new year!!

What needs to be done in preparation of a shift:

- Read the instruction manual (at least part 1, 2 and 3)
<https://nile.hep.utexas.edu/cqi-bin/DocDB/ut-nemo/private/ShowDocument?docid=6109>
- Have an account at E-log and snemo1 (ask Yves for E-log Jerome for snemo1)
- Check that you can connect by ssh to snemo1 and use the GUI
- Optional but recommended:
 - Install the GUI on your computer (far faster than on snemo1)
 - Find a backup shifter

All of this must be done well in advance!!

Shifter distribution

Institution	Shift	Done (%)
University of Edinburgh	19	31,15
UCL	6	9,84
Warwick	0	0,00
Imperial	0	0,00
University of Manchester	0	0,00
LP2I-Bordeaux	16	26,23
IJClab	3	4,92
LPCaen	1	1,64
CPPM	0	0,00
University of Jyväskylä	0	0,00
CTU Prague	10	16,39
Comenius University	3	4,92
Institute for Nuclear Research of NASU	0	0,00
University of Texas	0	0,00
Astrocent / Polish Academy of Sc.	3	4,918033
Total shift	61	

61 shift week since beginning of data taking.
427 days of data taking -> ~6.14 kg·yr $\beta\beta$ data
21 more shifter needed up to the end of the year

EVERY person who want to appear on the papers must do shifts!!

Institution	Shift	Done (%)
University of Edinburgh	19	31,15
UCI	6	9,84
Warwick	0	0,00
Imperial	0	0,00
University of Manchester	0	0,00
LP2I-Bordeaux	16	26,23
IJClab	3	4,92
LPCaen	1	1,64
CPPM *	0	0,00
University of Jyväskylä	0	0,00
CTU Prague	10	16,39
Comenius University	3	4,92
Institute for Nuclear Research of NASU	0	0,00
University of Texas	0	0,00
Astrocent / Polish Academy of Sc.	3	4,918033
Total shift	61	

Some institutions still did no shift

**Most shift done by Me (7), Antoine and Miro (6)
~1/3 of the shifts done by us three!**

* Jose on shift next week

Regular:

- Take LI and reference OM runs (daily, \approx 20 minutes)
- Restart automatic $\beta\beta$ runs
- Take ^{207}Bi runs (weekly, 6 hours but \approx 30 min active work)
- Check that the detector is running as it should \sim 5 min day
- Fill the E-log (end of shift or unexpected behaviour)
- **From now on: check the He recycling system (see Elvis talk)**

Unscheduled but common:

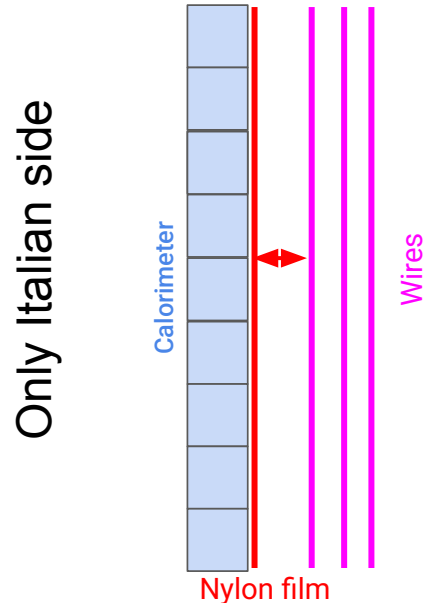
- HV trip (run simple script \sim 15 minutes)

Exceptional:

- In case of issues, refer to the manual and follow the appropriate procedure
- If the issue is not planned on the manual / if the fix doesn't work, call an expert.
- **shifter_question Slack channel created for peoples to ask question**
- Special run taking (either by following instructions, or with an expert)

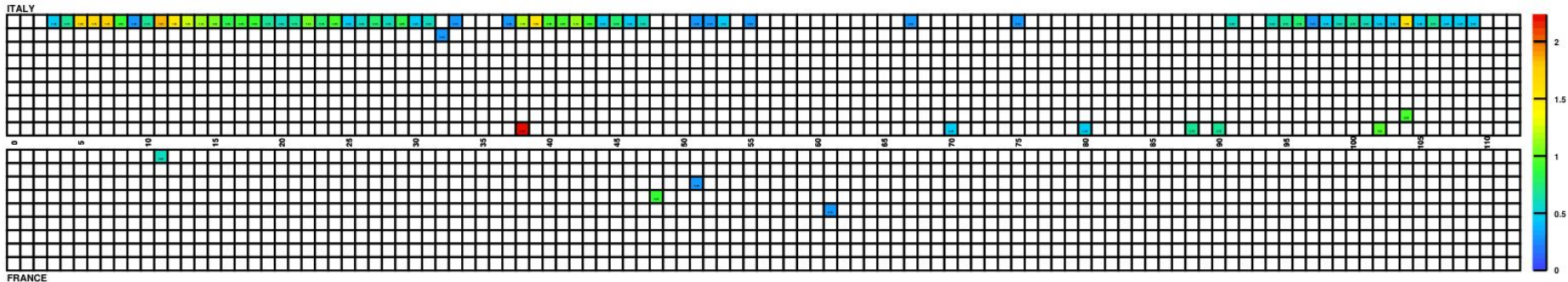
HV trip happen occasionally mostly due to lab pressure change, which make the nylon film move and short circuit cells

Less frequent recently:
2-3 per month, but often at 5am!



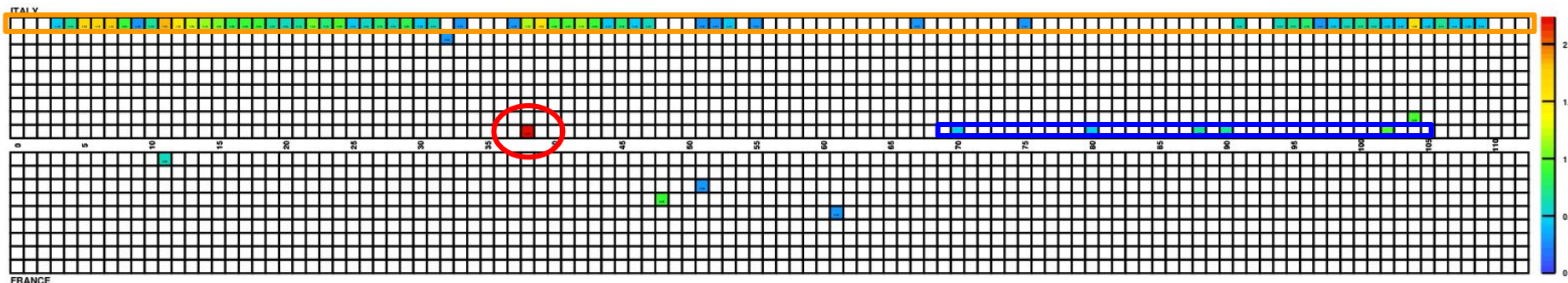
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HV trip happen occasionally mostly due to lab pressure change, which make the nylon film move and short circuit cells

Less frequent recently:
2-3 per month, but often at 5am!



Trips happen mostly near the Italian wall (nylon foil).
One very trippy cell near the source foil (certainly due to a bent source foil)
All the others trippy cell near the source foils were disconnected

3 types of operations since Frimley:

- Anti-Rn factory issue (see Christine/Andrea's talk)
- He-recycling issue (see Elvis talk)
- Other issue

16/03/2026

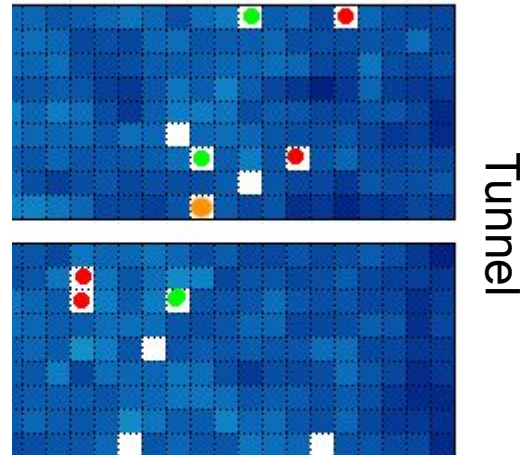
During Will's shift, one of the cell tripped a few times, and during the Bi calibration, it was impossible to relaunch the tracker due to this cell

Cheryl, Will and I killed the faulty cell with Jean-Lou and Andrea's help in LSM (orange)

While killing this cell, 3 others cells were also killed (green)

While trying to repair them, 4 others cells were killed (red)

We decided not to continue trying to repair it to avoid further damaging the tracker

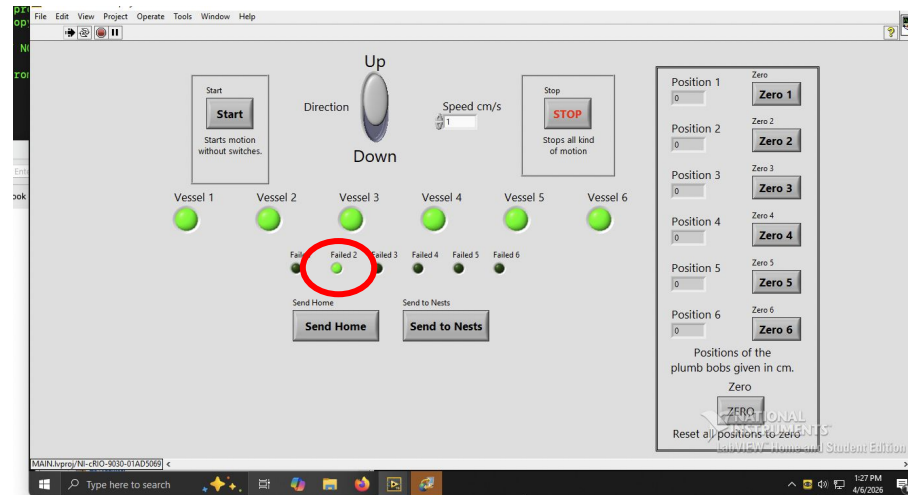


08/04/2026

During Elvis shift, one of the failed indicator of the Bi207 sources deployment system was on. Christine, who was on site, was able to manually move the faulty source by 3 cm, has resolved the issue up to now.

If stuck at the bottom, no physics run, at the top, no calibration!

Who knows how to fix it?



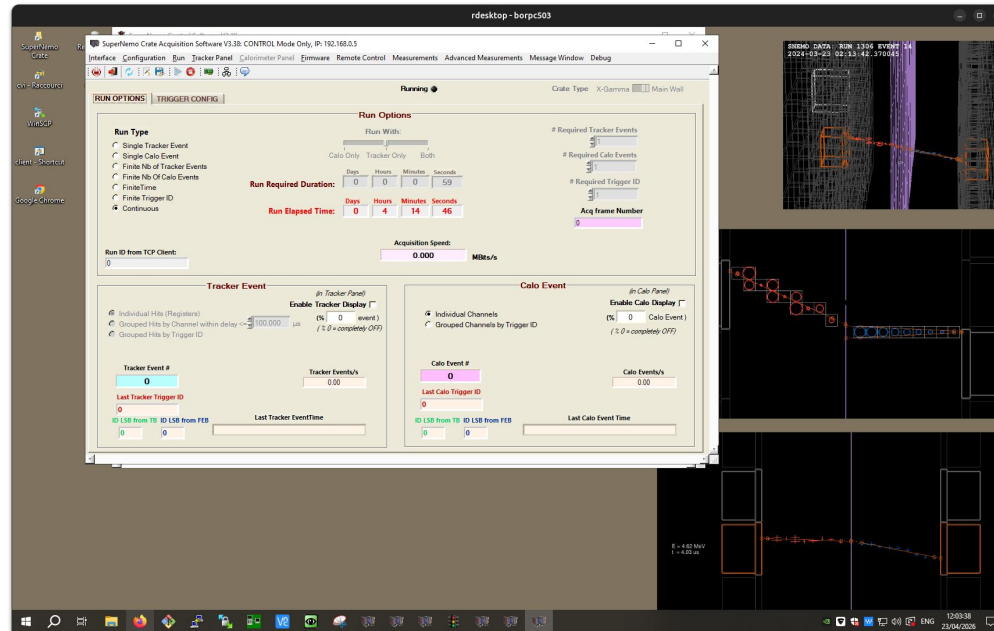
On site manual intervention is necessary in case of stuck Bi source!

21/04/2026

The DAQ crashed during Rastislav shift.

Manu had to restart it, as he was the only one who knew how to do it.

We should write the procedure in the manual (not sure how to do it once in the Windows computer)



25/06/2026 (last Thursday)

After DAMIC connected a vacuum cleaner, the whole LSM power shut down. Even if the current was not cut for SuperNEMO due to the emergency power, the tracker tripped. For ~30 minutes, the tracker continued tripping, but once the current was back to normal, Rastislav was able to relaunch the HV.

We don't know why these trips occurred, and it could be interesting to understand it in case of new power cut.

```
[2026/06/25 13:53:57] [trackerhv] [error] crate 0 slot 7 channel 17 TRIP
[2026/06/25 13:53:57] [trackerhv] [error] crate 0 slot 19 channel 0 TRIP
[2026/06/25 13:52:03] [trackerhv] [warning] crate 0 slot 0 channel 22 ILIM
[2026/06/25 13:52:03] [trackerhv] [warning] crate 0 slot 0 channel 28 ILIM
[2026/06/25 13:52:03] [trackerhv] [warning] crate 0 slot 0 channel 34 ILIM
[2026/06/25 13:52:03] [trackerhv] [warning] crate 0 slot 0 channel 35 ILIM
[2026/06/25 13:52:03] [trackerhv] [warning] crate 0 slot 7 channel 17 ILIM
[2026/06/25 13:52:05] [trackerhv] [warning] crate 0 slot 0 channel 23 ILIM
[2026/06/25 13:52:05] [trackerhv] [warning] crate 0 slot 0 channel 29 ILIM
[2026/06/25 13:52:52] [trackerhv] [error] crate 1 slot 19 channel 0 TRIP
[2026/06/25 13:52:58] [trackerhv] [warning] crate 1 slot 0 channel 8 ILIM
[2026/06/25 13:52:58] [trackerhv] [error] crate 1 slot 0 channel 8 TRIP
[2026/06/25 13:52:58] [trackerhv] [warning] crate 1 slot 0 channel 17 ILIM
[2026/06/25 13:52:58] [trackerhv] [error] crate 1 slot 0 channel 17 TRIP
[2026/06/25 13:52:58] [trackerhv] [warning] crate 1 slot 9 channel 13 ILIM
[2026/06/25 13:52:58] [trackerhv] [warning] crate 1 slot 15 channel 35 ILIM
[2026/06/25 13:53:38] [dad] [notice] run 4849 stopped
[2026/06/25 13:54:06] [trackerhv] [error] crate 2 slot 19 channel 0 TRIP
[2026/06/25 13:54:06] [trackerhv] [warning] crate 2 slot 9 channel 17 ILIM
[2026/06/25 13:54:06] [trackerhv] [error] crate 2 slot 9 channel 17 TRIP
[2026/06/25 13:54:06] [trackerhv] [warning] crate 2 slot 10 channel 8 ILIM
[2026/06/25 13:54:06] [trackerhv] [error] crate 2 slot 10 channel 8 TRIP
[2026/06/25 13:54:06] [trackerhv] [warning] crate 2 slot 10 channel 17 ILIM
[2026/06/25 13:54:06] [trackerhv] [error] crate 2 slot 10 channel 17 TRIP
[2026/06/25 13:54:06] [trackerhv] [warning] crate 2 slot 13 channel 9 ILIM
[2026/06/25 13:55:05] [trackerhv] [warning] crate 0 slot 11 channel 0 ILIM
[2026/06/25 13:55:05] [trackerhv] [error] crate 0 slot 19 channel 0 TRIP
[2026/06/25 13:56:03] [trackerhv] [error] crate 0 slot 11 channel 8 TRIP
[2026/06/25 13:56:10] [trackerhv] [error] crate 0 slot 11 channel 8 TRIP
[2026/06/25 13:57:04] [trackerhv] [warning] crate 1 slot 2 channel 17 ILIM
[2026/06/25 13:57:04] [trackerhv] [error] crate 1 slot 2 channel 17 TRIP
[2026/06/25 13:57:04] [trackerhv] [error] crate 1 slot 19 channel 0 TRIP
[2026/06/25 13:57:13] [trackerhv] [warning] crate 0 slot 11 channel 8 ILIM
[2026/06/25 13:57:21] [trackerhv] [error] crate 0 slot 19 channel 0 TRIP
[2026/06/25 13:57:22] [trackerhv] [error] crate 0 slot 11 channel 8 TRIP
[2026/06/25 13:59:45] [trackerhv] [warning] crate 2 slot 5 channel 8 ILIM
[2026/06/25 13:59:46] [trackerhv] [error] crate 2 slot 15 channel 0 TRIP
[2026/06/25 13:59:46] [trackerhv] [error] crate 2 slot 15 channel 17 TRIP
[2026/06/25 13:59:46] [trackerhv] [error] crate 2 slot 19 channel 0 TRIP
[2026/06/25 13:59:52] [trackerhv] [warning] crate 2 slot 16 channel 8 ILIM
[2026/06/25 13:59:52] [trackerhv] [error] crate 2 slot 16 channel 8 TRIP
[2026/06/25 13:59:52] [trackerhv] [error] crate 2 slot 16 channel 17 TRIP
[2026/06/25 13:59:52] [trackerhv] [error] crate 2 slot 17 channel 8 TRIP
[2026/06/25 13:59:55] [trackerhv] [warning] crate 2 slot 15 channel 17 ILIM
[2026/06/25 13:59:56] [trackerhv] [warning] crate 0 slot 11 channel 0 ILIM
```

```
[2026/06/25 13:59:56] [trackerhv] [warning] crate 2 slot 17 channel 8 ILIM
[2026/06/25 14:00:03] [trackerhv] [error] crate 0 slot 19 channel 0 TRIP
[2026/06/25 14:00:09] [trackerhv] [error] crate 0 slot 11 channel 8 TRIP
[2026/06/25 14:01:23] [trackerhv] [warning] crate 1 slot 16 channel 3 ILIM
[2026/06/25 14:01:23] [trackerhv] [warning] crate 1 slot 16 channel 9 ILIM
[2026/06/25 14:01:23] [trackerhv] [warning] crate 1 slot 16 channel 15 ILIM
[2026/06/25 14:01:23] [trackerhv] [warning] crate 1 slot 16 channel 21 ILIM
[2026/06/25 14:01:23] [trackerhv] [warning] crate 1 slot 16 channel 27 ILIM
[2026/06/25 14:01:23] [trackerhv] [warning] crate 1 slot 16 channel 33 ILIM
[2026/06/25 14:01:54] [trackerhv] [warning] crate 1 slot 15 channel 27 ILIM
[2026/06/25 14:02:06] [trackerhv] [warning] crate 0 slot 16 channel 17 ILIM
[2026/06/25 14:02:06] [trackerhv] [warning] crate 0 slot 17 channel 8 ILIM
[2026/06/25 14:02:06] [trackerhv] [warning] crate 0 slot 17 channel 17 ILIM
[2026/06/25 14:02:06] [trackerhv] [warning] crate 0 slot 18 channel 17 ILIM
[2026/06/25 14:02:10] [trackerhv] [warning] crate 0 slot 11 channel 8 ILIM
[2026/06/25 14:02:10] [trackerhv] [error] crate 0 slot 16 channel 17 TRIP
[2026/06/25 14:02:10] [trackerhv] [error] crate 0 slot 19 channel 0 TRIP
[2026/06/25 14:02:27] [trackerhv] [error] crate 1 slot 0 channel 17 TRIP
[2026/06/25 14:02:27] [trackerhv] [error] crate 1 slot 19 channel 0 TRIP
[2026/06/25 14:04:19] [trackerhv] [warning] crate 0 slot 13 channel 8 ILIM
[2026/06/25 14:04:22] [trackerhv] [error] crate 0 slot 13 channel 8 TRIP
[2026/06/25 14:04:22] [trackerhv] [error] crate 0 slot 19 channel 0 TRIP
[2026/06/25 14:07:55] [trackerhv] [warning] crate 1 slot 4 channel 7 ILIM
[2026/06/25 14:08:01] [trackerhv] [warning] crate 1 slot 8 channel 10 ILIM
[2026/06/25 14:08:07] [trackerhv] [warning] crate 2 slot 6 channel 6 ILIM
```

SuperNEMO is taking data since 427 days now in a mostly stable state!

21 more shifters are needed up to the end of the year

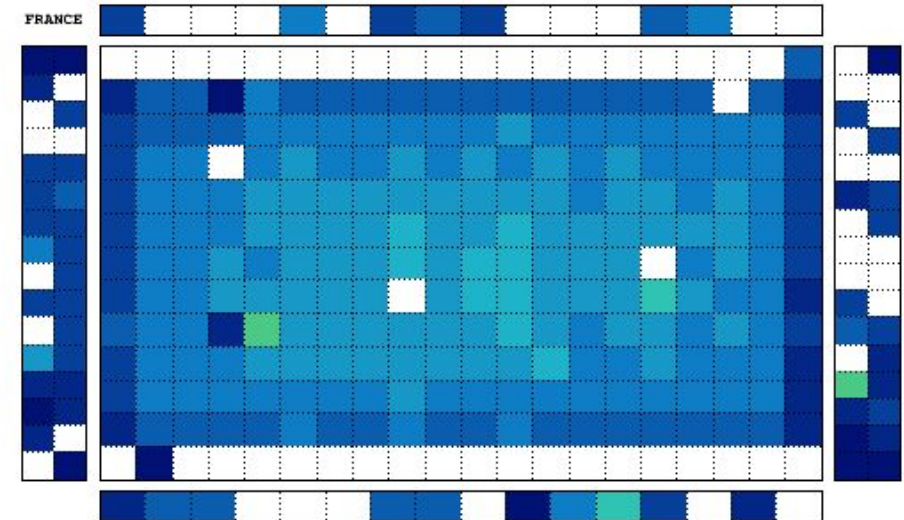
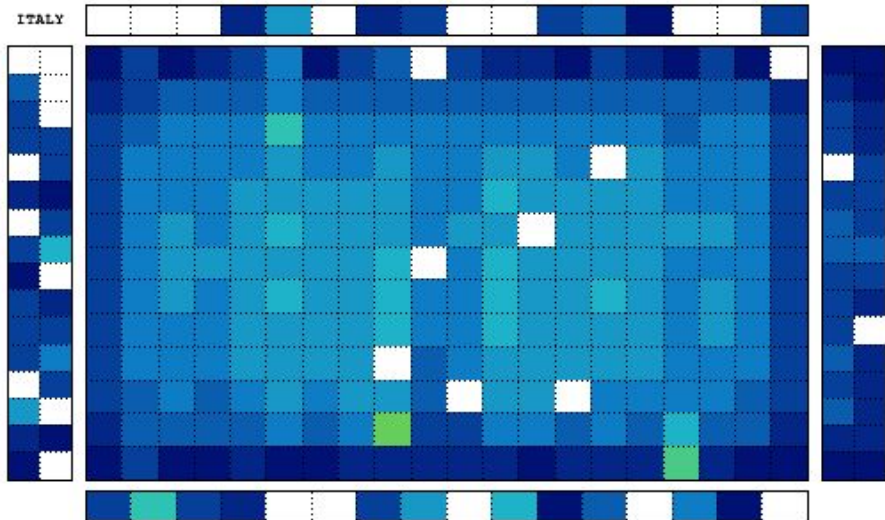
Update on the Anti-Rn factory and the He-recycling system in the next talks

A question we'll need to answer: what do we do if Jean-Lou's on holiday and we need someone in LSM?

Conclusion: Manu's favorite animal 2







State end of 2023

ITALY

	G0:15	G0:14	G0:13	G0:12	G0:11	G0:10	G0:9	G0:8	G0:7	G0:6	G0:5	G0:4	G0:3	G0:2	G0:1	G0:0
	679	678	677	676	675	674	673	672	671	670	669	668	667	666	665	664
X0:1.01	567	583														
X0:1.02	566	582														
X0:1.03	565	581														
X0:1.04	564	580														
X0:1.05	563	579														
X0:1.06	562	578														
X0:1.07	561	577														
X0:1.08	560	576														
X0:1.09	559	575														
X0:1.10	558	574														
X0:1.11	557	573														
X0:1.12	556	572														
X0:1.13	555	571														
X0:1.14	554	570														
X0:1.15	553	569														
X0:1.16	552	568														
	663	662	661	660	659	658	657	656	655	654	653	652	651	650	649	648

FRANCE

	G1:0	G1:1	G1:2	G1:3	G1:4	G1:5	G1:6	G1:7	G1:8	G1:9	G1:10	G1:11	G1:12	G1:13	G1:14	G1:15
	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711
X0:0.16	599	615														
X0:0.17	598	614														
X0:0.18	597	613														
X0:0.19	596	612														
X0:0.20	595	611														
X0:0.21	594	610														
X0:0.22	593	609														
X0:0.23	592	608														
X0:0.24	591	607														
X0:0.25	590	606														
X0:0.26	589	605														
X0:0.27	588	604														
X0:0.28	587	603														
X0:0.29	586	602														
X0:0.30	585	601														
X0:0.31	584	600														
	689	688	687	686	685	684	683	682	681	680	679	678	677	676	675	674