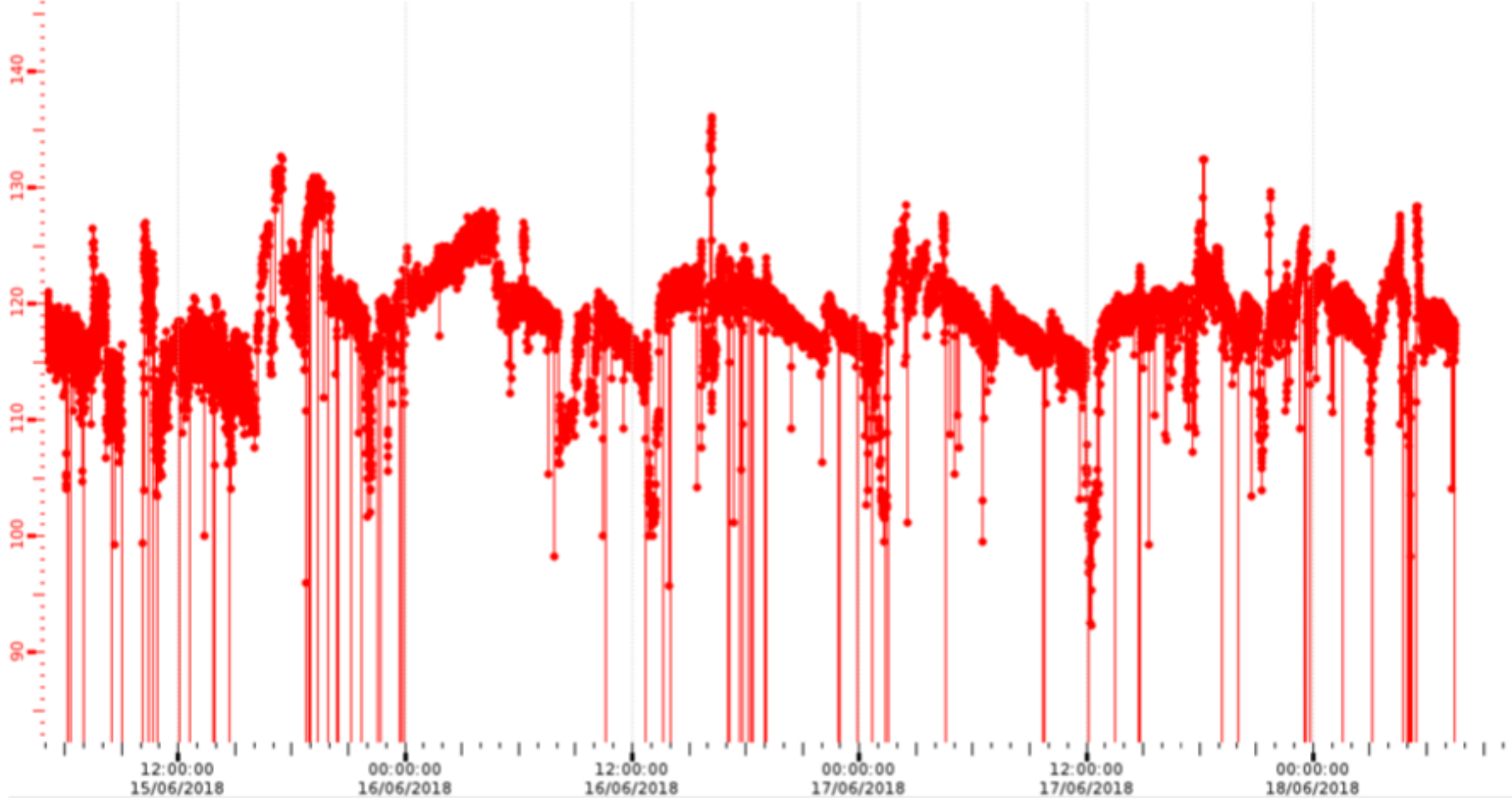


Weekly Report

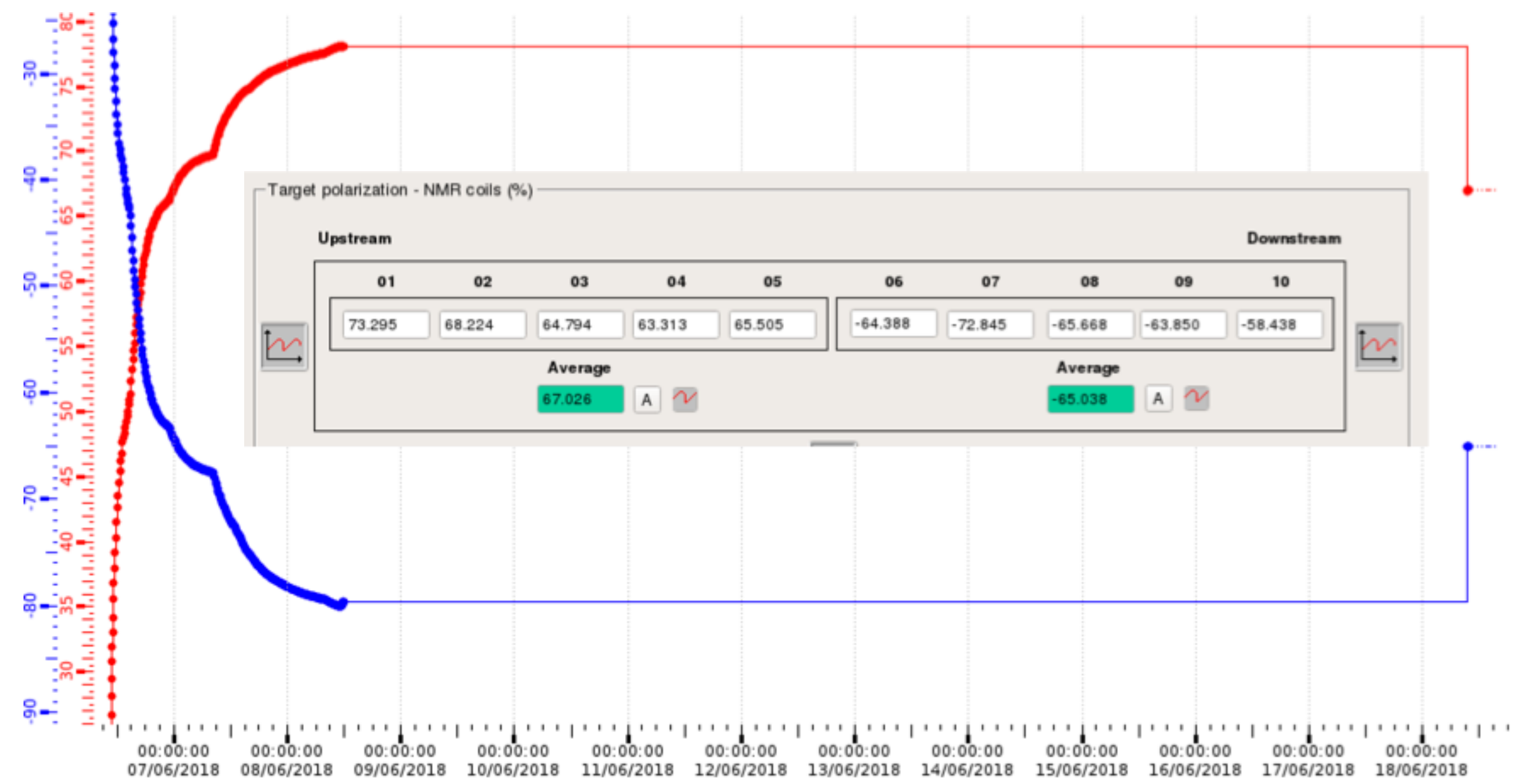
DY 2018 run

June 22nd

Before the MD Beam intensity



Before the MD Target



Spills Recorded by COMPASS Between 2018-06-15 11:00:00 and 2018-06-18 15:14:36

Run Type	Recorded Spills	Good Spills	Particles per Good Spill	Bad Spills	Particles per Bad Spill	Empty Spills	Particles per Empty Spill
	1802	0		0		1802	9378
detector_test	196	0		0		196	663
drell-yan	11546	11233	1.613e+8	21	1.599e+8	292	21997
Total	13544	11233		21		2290	

- Xpoint switched install for the 6 port of ECAL2.
- It allows to map the ports to different MuX in order to have a flexible repartition of load between the MuX.
- Seems stable but some error can appear on these ports. If the errors persist, just exclude the ports from the database.
- If it is stable enough, the technology will be dopployed step-by-step over the different ports.

- HV modules for Veto triggers moved from the faulty one to the spare crate that already holds part of the Outer Trigger. Mapping updated in DCS;
- Veto inner 2 moved 5mm towards Jura to compensate the beam steering.

values between outer frame and inner frame before movement:

Jura: 5.1mm

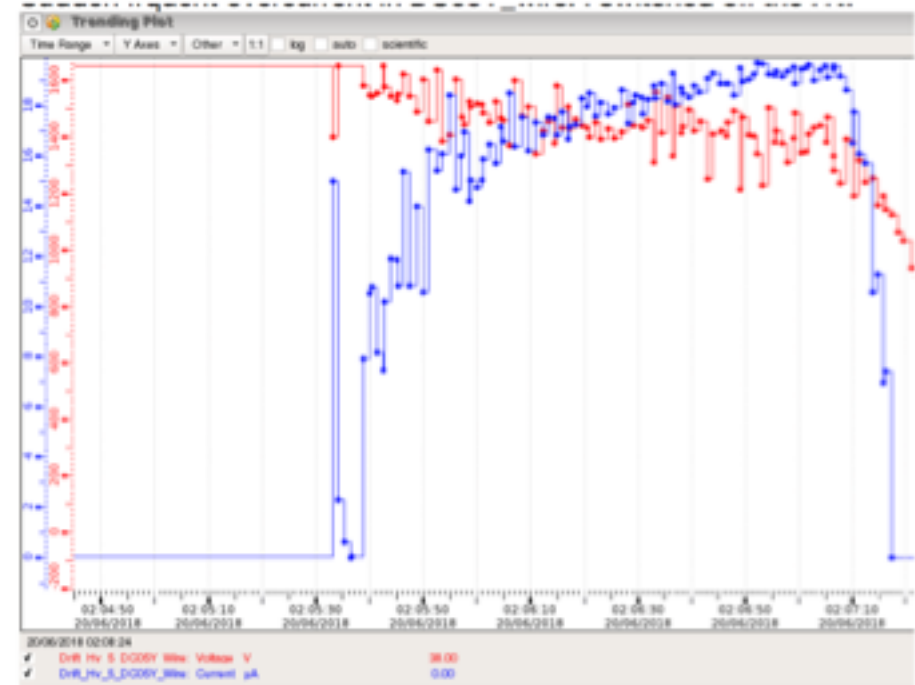
Saleve: 4.1mm

After movement:

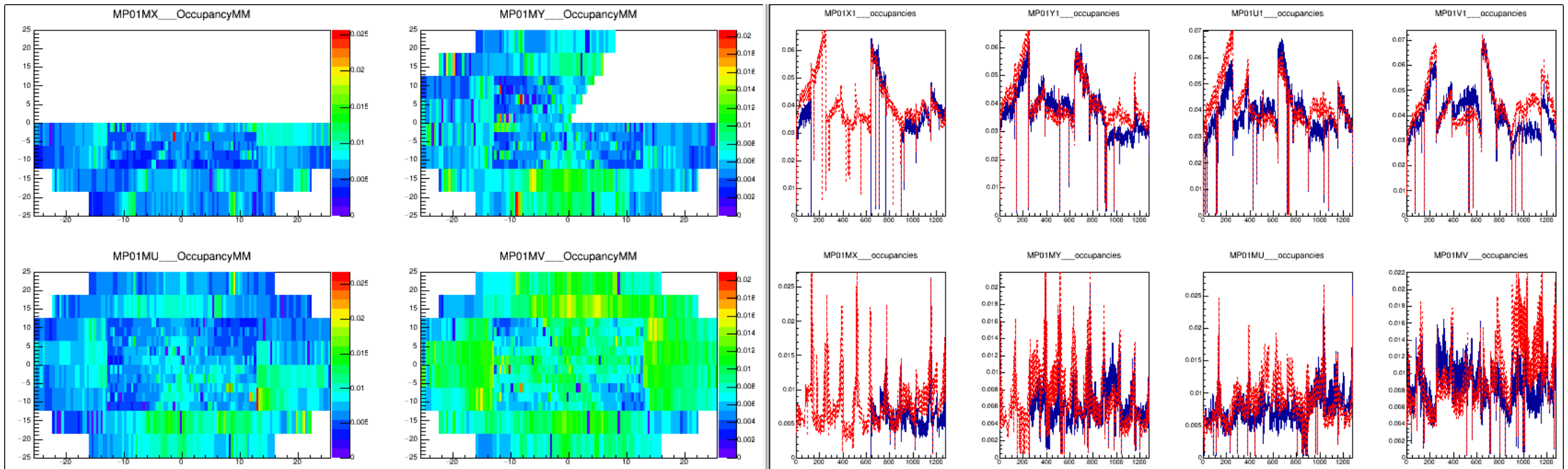
Jura: 4.6mm

Saleve: 4.6mm

- Over current in DC5 wire (Wednesday night) :
- The voltage cannot be raised more than 400V for this channel;
- The problem has been identified to be inside the detector, Y' view is deactivated while Y view is properly working;
- The tension is back to nominal value on all other channels.



- One ADC missing, no way to get it back either reloading or powercycling it;
- Damien had to reinstall the main firmware of the ADC on Thursday;
- This problem is now solved.



- Wednesday 13 :

- A short on the LV supply of Straw3 caused a power cut Jura side;

- The supply is exchanged with a spare, and a faulty channel unplugged (U0);

- The interlock with the cooling system is bypassed;

- The operation saved 7 channels out of 8;

- Wednesday 13 :
 - A short on the LV supply of Straw3 caused a power cut Jura side;
 - The supply is exchanged with a spare, and a faulty channel unplugged (U0);
 - The interlock with the cooling system is bypassed;
 - The operation saved 7 channels out of 8;
- Monday 18 :
 - When trying to investigate this problem the faulty (U0) channel is plugged back;
 - After a load, U0 stands the nominal voltage ramp-up;
 - The pump relais was plugged back and the operation repeated;
 - Everything worked as it should;

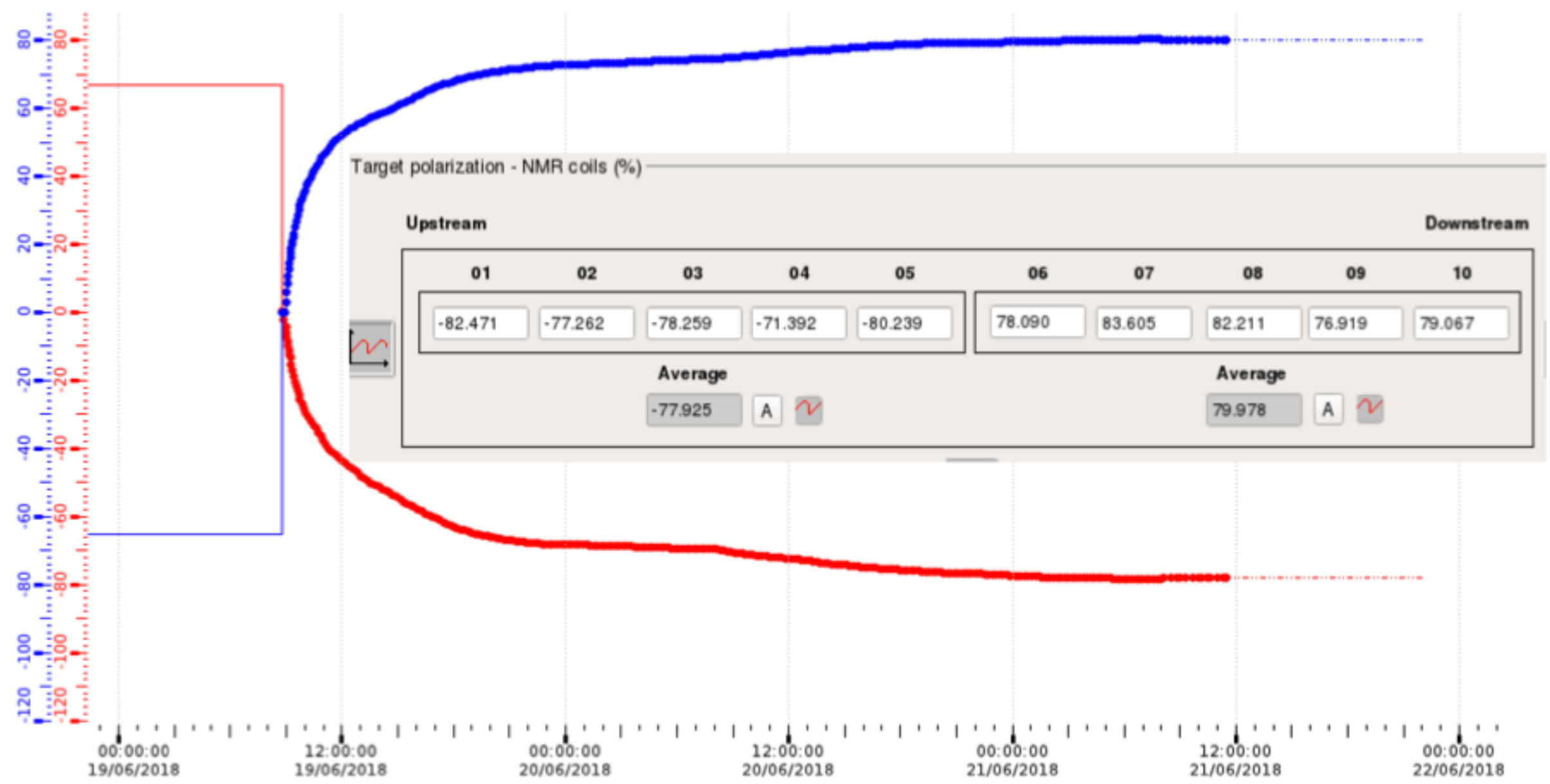
- Wednesday 13 :
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 - When trying to investigate this problem the faulty (U0) channel is plugged back;
 - After a load, U0 stands the nominal voltage ramp-up;
 - The pump relais was plugged back and the operation repeated;
 - Everything worked as it should;
- Thursday 21:
 - The fuse in the socket connecting Straw LV to the Normabar blew in the morning;
 - Once replaced Straw looks OK;
 - In the afternoon both HV an LV from ECAL2 connected to the same Normabar;
 - displayed blown fuses;

**Is the Normabar faulty
or the straw wiener power supply that makes the Normabar faulty
or anything else ?**

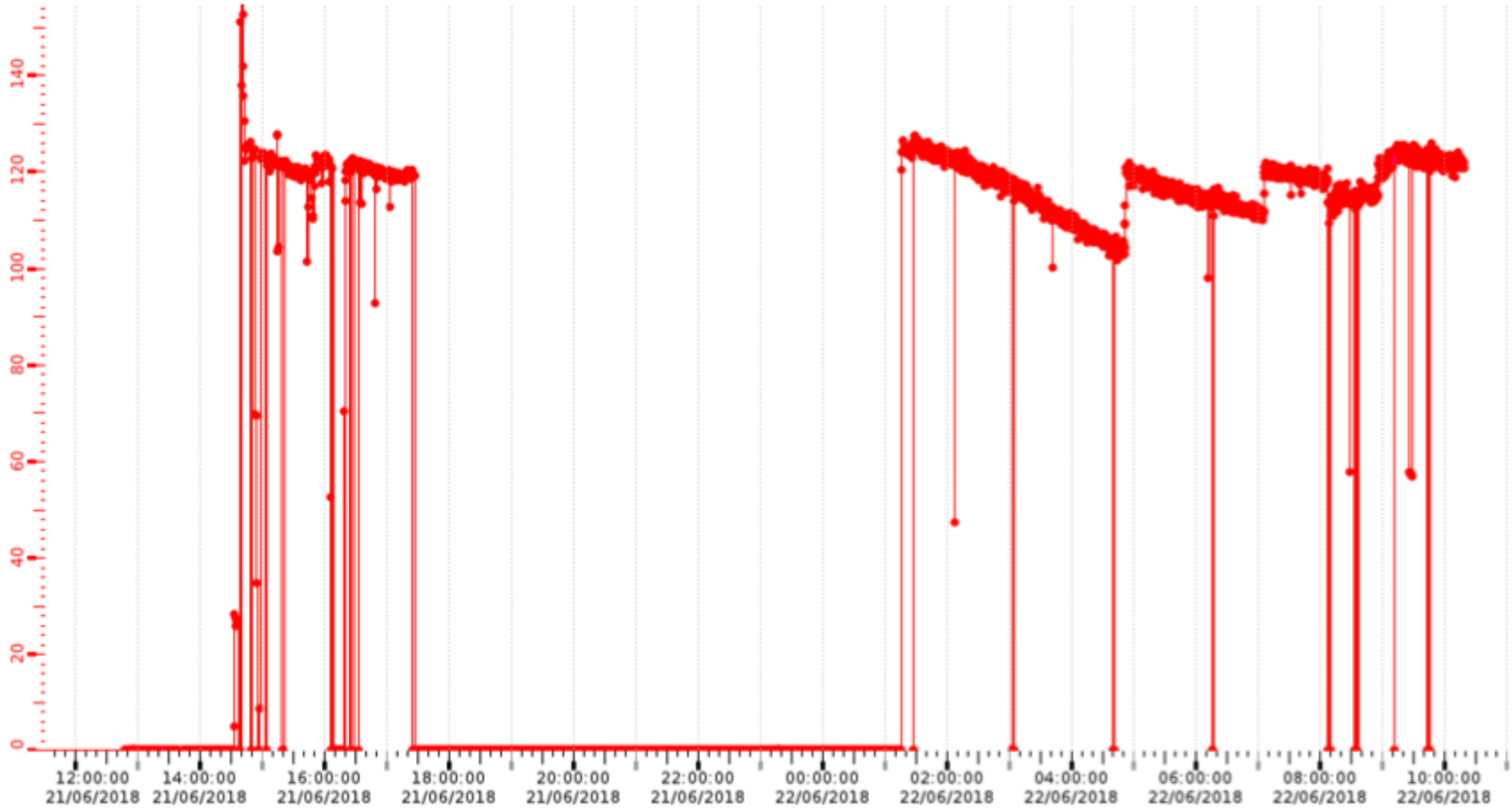
- An appointment is made with CERN technical services to check on the Normabar next Wednesday;
- Another spare power supply for Straw is now available for potential tests/exchange (?).

- DCS implementation of the alarm for the CEDAR scintillators tested and now operational;
- CEDARs PMTs installed and connected, CEDARs closed Thursday morning;
 - The first HV crate went off before even applying any voltage;
 - It has been exchanged at E-Pool and the new one installed;
 - The new crate manage to provide only four hours of work once the beam was back after MD and ended-up down as well... (access this morning)
 - Marcin is considering moving the crate a bit more away from the beamline but for that he needs : a new crate,
 - some other HV cables from CAMERA,
 - some connectors to make cables longer;
- Gain monitoring is not already set-up and some work will be needed next MD, in the meantime it is still possible to operate the PMTs since they have already all been tested and their characteristic is known;

Target Polarisation at the end of MD



Beam Intensity



CPS Tel:76677-W 25 21 Jun 18 21:50:27

4 Colour range scales: 0.1 - 0.49 0.49 - 9 9 - 225 225 - 4500 E10 Charges

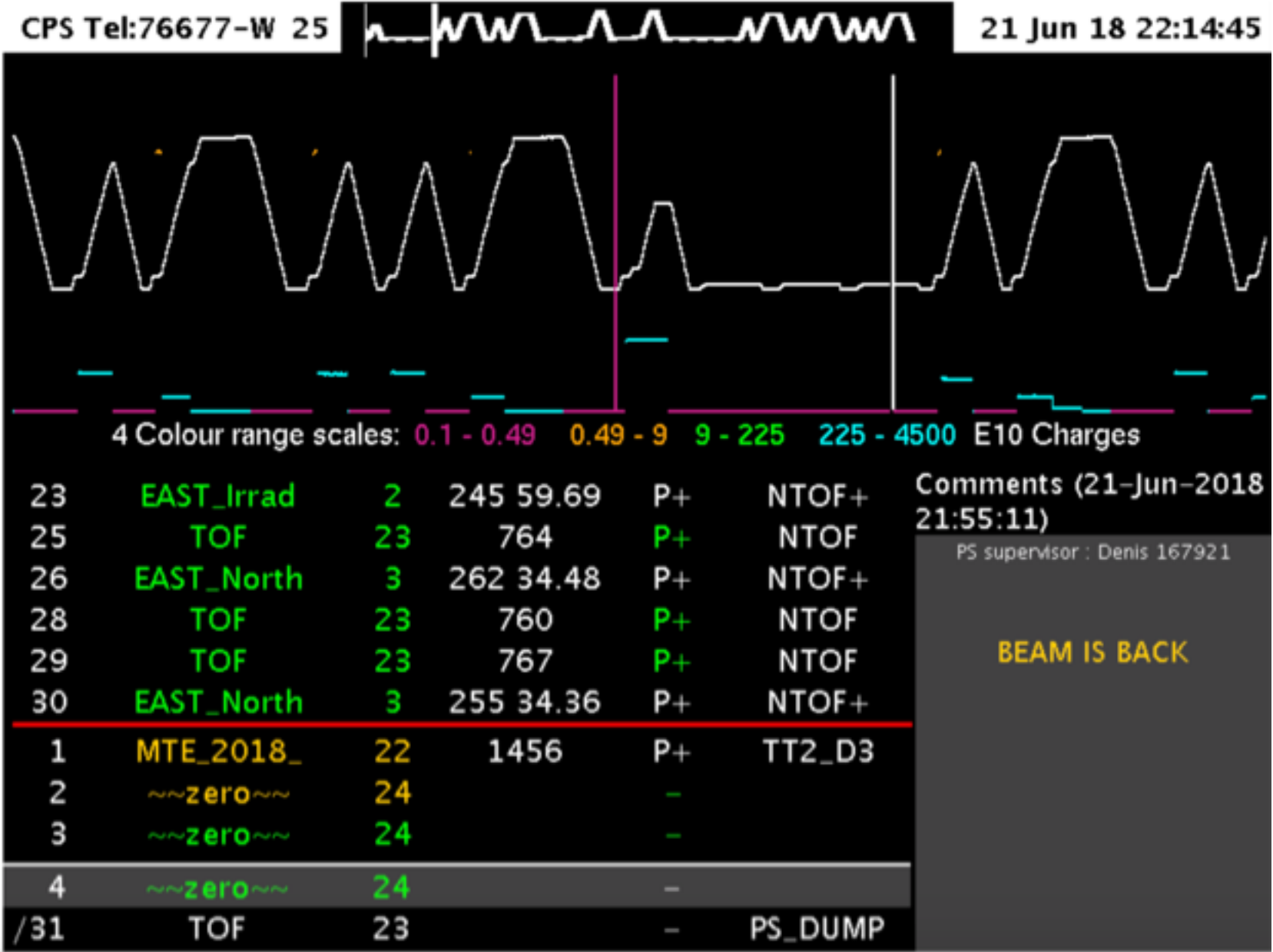
30	~~zero~~	24	-		
31	~~zero~~	24	-		
32	~~zero~~	24	-		
33	TOF	23	-		
34	~~zero~~	24	-		
1	MTE_2018_	22	-0.03	P+	TT2_D3
2	~~zero~~	24	-		
3	~~zero~~	24	-		
4	~~zero~~	24	-		
5	~~zero~~	24	-		
/34	~~zero~~	24	-		PS_DUMP

Comments (21-Jun-2018 20:14:03)

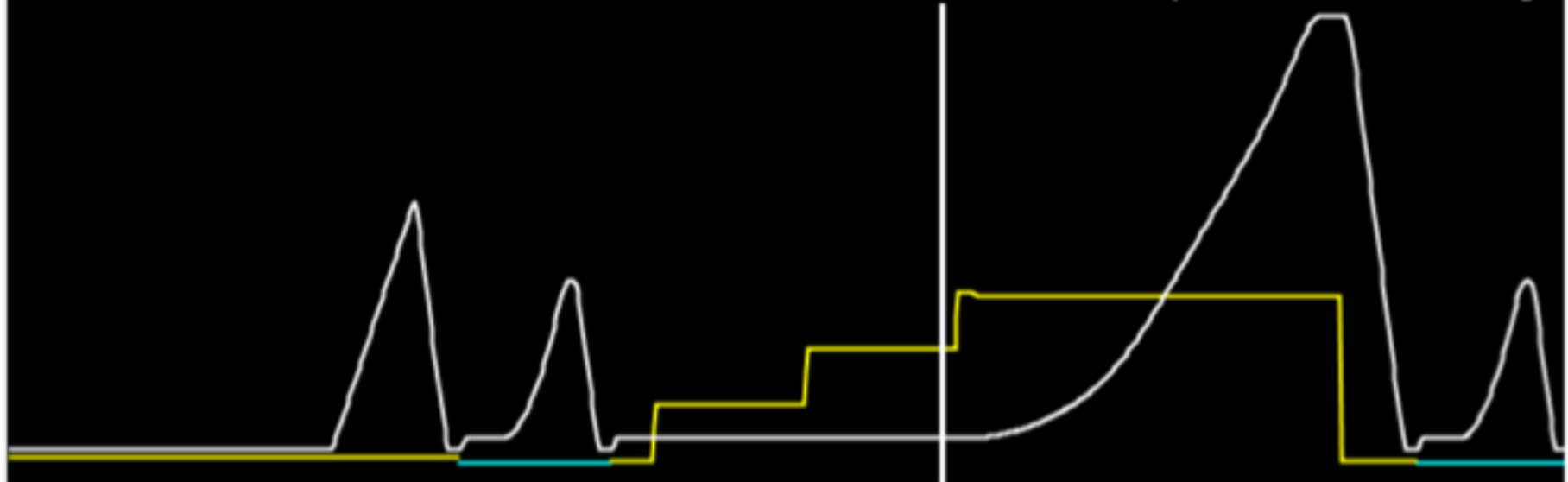
PS supervisor : Denis 167921

PS power system has an internal error.

Specialist is on site and working on it, but no firm time estimate now



SC 25 (31BP, 37.2s) **DDESTECO** Last update: 7 seconds ago



Target	I/E11	MUL	%SYM	Experiment
T2	0.2	0	0	H2/H4
T4	0.0	0	0	H6/H8
T6	0.0	0	0	COMPASS
T10	0.0	0	100	NA62

Phone: 77500 or 70475

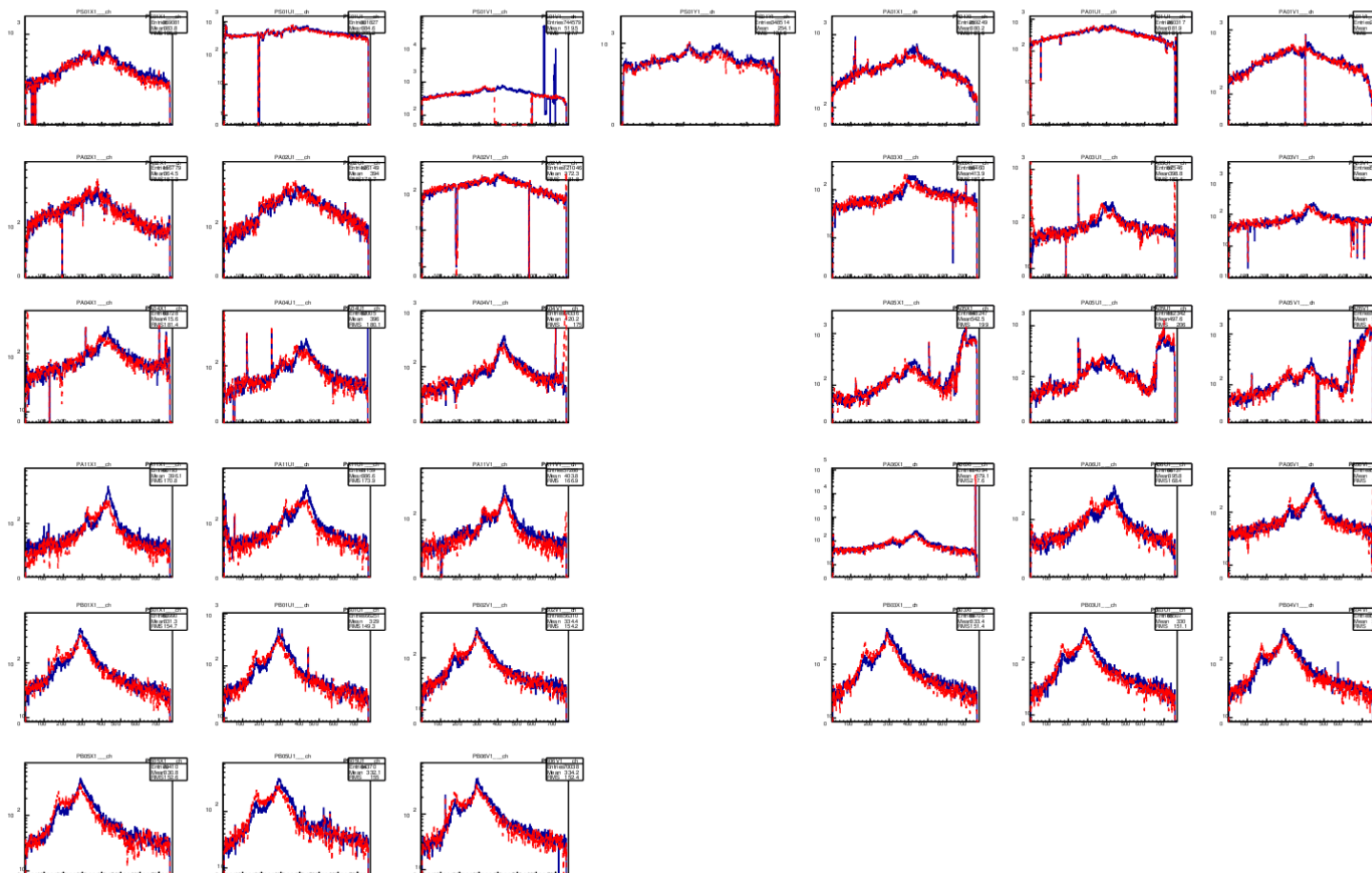
Comments (21-Jun-2018 23:04:03)

Power converter and magnet problems.
 Access required in BA80
 Magnet and RP piquets called.
 More news around 0:00

MD1 -1.4 E8 -0.2 E8

100% readout error on SrID 454 but no evident effect in cool plots ?
Reload does not have any effect...

Run 283872 MWPC hits logy: MWPC_ch_logy.cfg - Page 1 (64100 evts) Fri Jun 22 08:17:44 2018



Many thanks to the shifters, the experts
and Vincent !

Good luck Martin !