

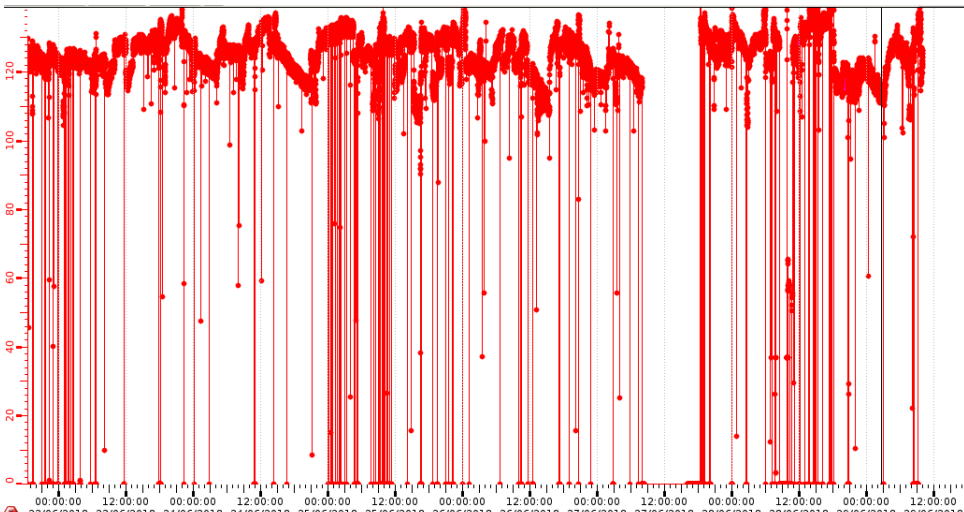
Week coordinator report

Martin Bodlak

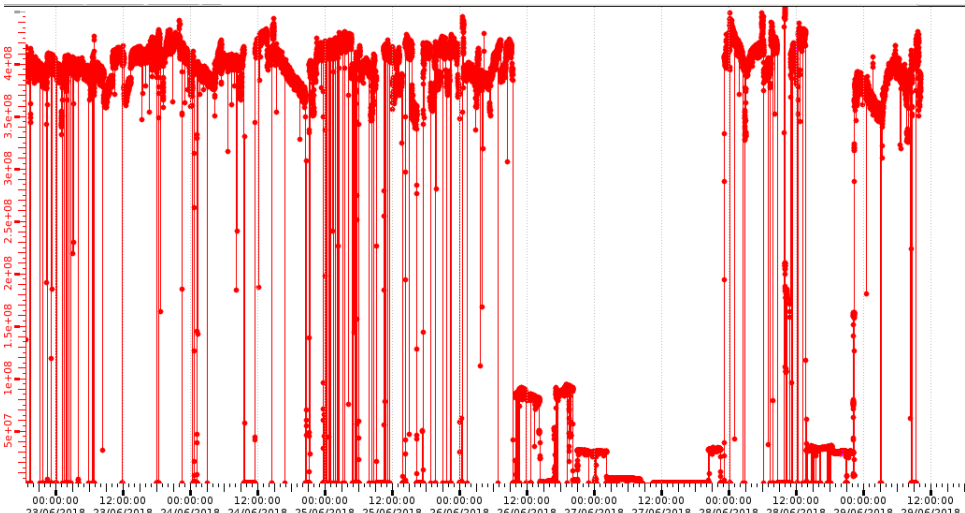
Czech Mafia

29. 6. 2018

Intensity on T6

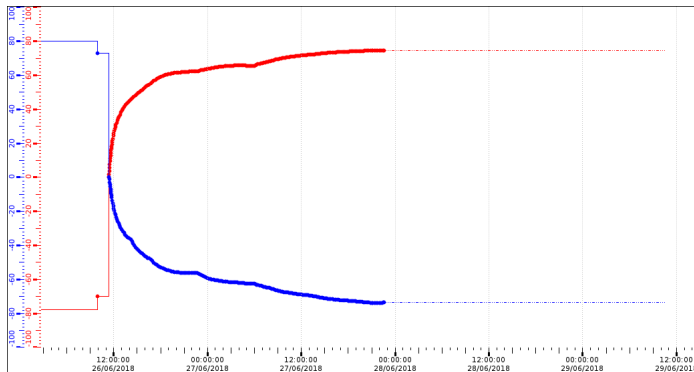


ION2 counts



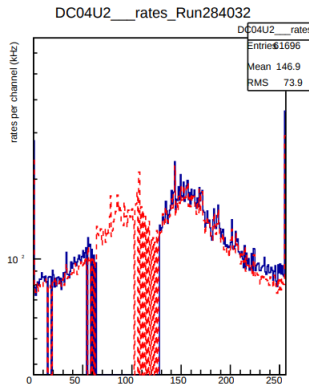
Target

- microwave reversal started on Tuesday morning
 - polarizing until Wednesday 22:45
- Up: +74.738%, Down: -73.553%



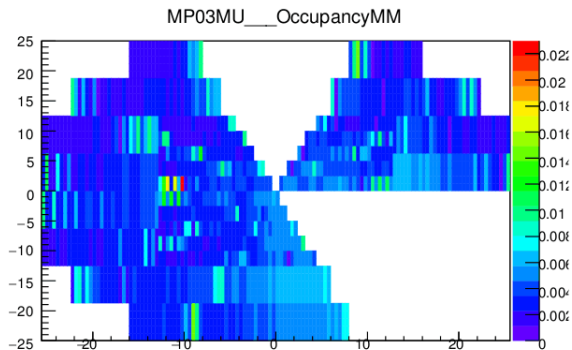
DCs

- reappearing issue on DC04U2 - 100% errors on SrcId 260 port 9
 - several attempts to fix - problem keeps appearing and disappearing



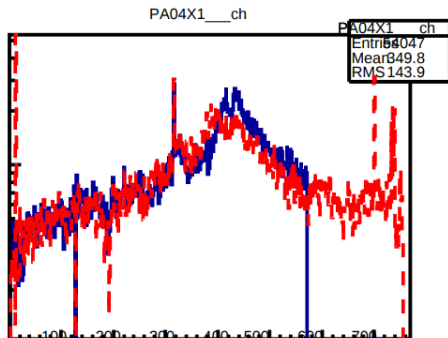
MMs

- reappearing issues with missing sectors on PMM



MWPC

- errors on 454 port 4 - fixed during MD (noise still present on PA05 X,U,V)
- errors on 453 port 7 (PA04X1) - will be investigated during next access



Straw

- communication lost with Straw_Lv_St03 - access to check the water pump and the normabarre plug - a fuse has blown up again, the whole normabarre plug was replaced
- normabarre intervention during MD - need to exchange cables, plug, fuses next week

- few PCI/DMA errors
- “Check the bookies” sound added to GUI for 100th and 180th spill
- DAQ - issue on MUX12 “First SLink event word is not SLink header word” - DAQ_VME_DC05 (pccofe52) power cycled (radiation issue)

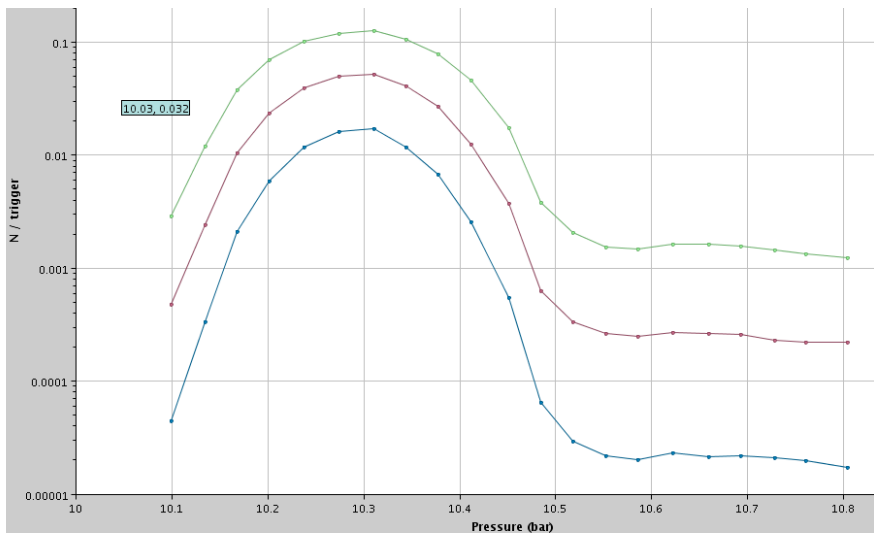
CEDAR Status 1/2

- Failed to see pressure peaks at first attempt
 - Tuned to wrong signal (see next point)
- We see large signal from beam, well over 10 photoelectron.
 - Not from within the CEDAR, as simulation predicts no more than 8-9 photoelectrons, with average of 4-5.
 - Coincident between PMTs - with a coincidence set to 5 PMT the rate is approx. 0.1% of beam, per PMT is approx. 1% of beam.
 - To be further investigated on Saturday
 - Creates huge load on PMTs, more than light from the CEDARs. For CEDAR 1 two top PMTs go to overcurrent.

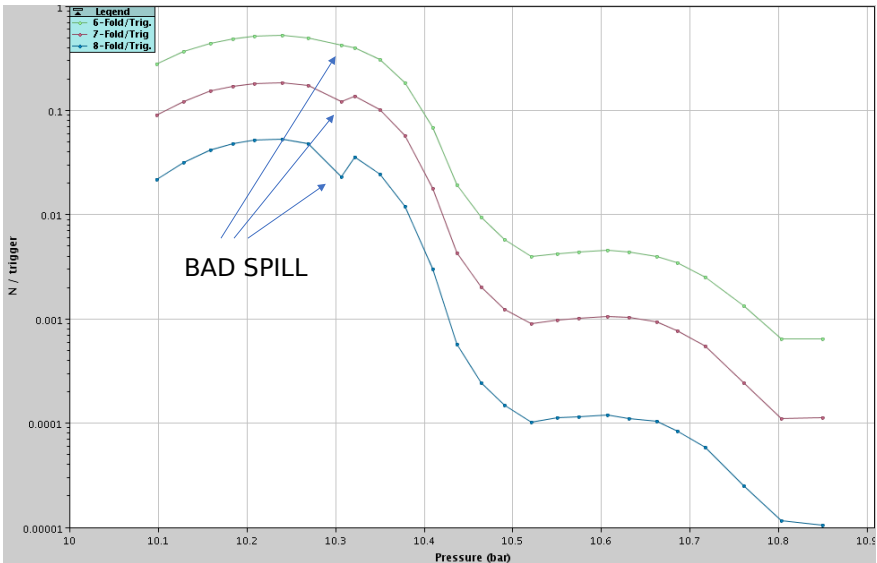
CEDAR Status 2/2

- Checked amplitude of single photoelectron signals from PMTs to determine reasonable threshold levels
- After lowering threshold on CERN electronics we saw pressure peaks
- Did few pressure scan, aligned the CEDARs a bit - to be continued today
- Need to install additional amplifiers from E-pool to boost signals for CERN electronics, as thresholds cannot be set below 30 mV due to VME noise. We need approx. 16-18 mV for 2 photoelectron signals. I also need to lower gain for PMTs of CEDAR 1 so that they do not go to overcurrent at full intensity.
- Will open CEDAR today late afternoon to further investigate source of big signal that is coincident between PMTs.

First Pressure Scans (CEDAR 1, LD = 2 mm)



First Pressure Scans (CEDAR 2, LD = 2 mm)



Number of good spills

Drell-Yan	17 303 spills
Trigger efficiency	1 307 spills

Thanks to all the shifters, experts, run coordinators, etc.

Good luck Márcia!