

Weekly meeting

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COMPASS

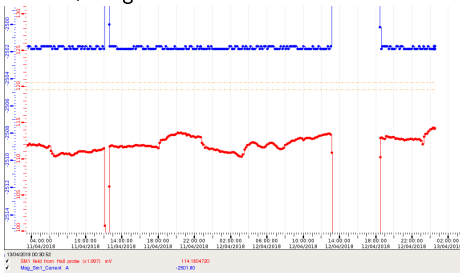
April, 13th 2018

- BMS: Good
 - BMS1,2,4
 - BMS3 HV: Faulty HV module replaced (some channels send false tripped signals → masked in DCS)
 - BMS4: 16 missing channels recovered (ripped flat cable)
- FI: ongoing OK
 - FI01 installed and working: Wrong cabling and broken cable fixed
 - FI04, FI15, FI03 and FI01U? to be installed after target loading (R/O checked and OK)

- DC00, DC01: Good
- DC04 in garage position
 - Noise issue solved (coming from a loose connection of a F1 card)
 - Missing 1 F1 on X4 (replace inner cable from card to patch pannel)
 - Instabilities in two F1 cards: Y3 and Y4 (to be monitored)
 - Multiple errors on SrcID 260 (DC04 prime views)

Investigations and intervention: latest next Monday

- Hall probe
 - offset + large fluctuations



- Contacted Johannes (waiting for his reply)
- Hint from Ana-Sofia in 2011 (Hall connection box)
- Faulty
 - After access call the piquet to switch SM1 back on
 - SPS logbook: “Advice to never turn off PC to spectrometer due to difficult restart.”

- SrclD 738 two port excluded (GM06UV): 1 ADC broken to be exchanged next Thursday (?)

A spare ADC has to be identified :

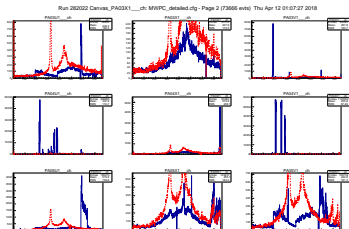
- 2 sent to Igor for repair
- the ones from GM11?

Martin is waiting for a reply from Igor and Bernhard

- SrclD 739 port 1 (GEM07-GEM08): 100% errors on MurphyTV

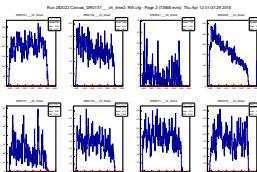
- MWPCs

- Errors on PS01, SrcID 460, port 7: $\approx 60\%$ MurphyTV errors
- New cards and connectors installed, look ok so far but:
Noise and mapping issues?



- RW

- Gas alarm for CO2 flow: too low
- Issue with latency?



- MW1:
 - Improved gas circulation
 - Last missing HV channel could be raised to nominal value
- MW2:
 - Noise: amplifiers on MB01X1db (ch. 14) and MB02V2ub (ch. 108) exchanged

OK

- Preliminary triggers
 - HV scan for OT completed last night (with help from Christophe)
 - HV scan for H1/H2 to be done in the coming days
 - Some slabs for HO03 to be installed next week
 - MT, BT, Halo, Last1 timed in
 - Several peaks for OT to be timed in
 - CT included in the DAQ (single muon?)
 - MT+LAST, LAST2 are prepared
 - OT+LAST, once OT is timed in
- Final trigger
 - Vup and VI02 to be craned into position after target loading

- Increased HV
- Adjusted amplification
- Laser for ECAL 1 not on
- Reduced LED for ECAL 2

OK

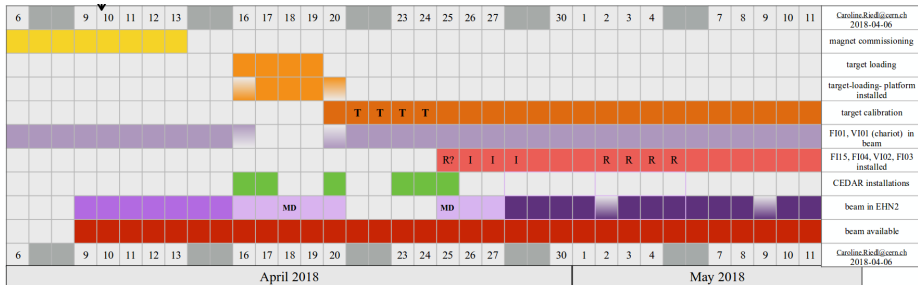
- Running smoothly
- Cool: Some instabilities with TDC base detectors
→ roll back to previous Daq Decoding Library
- E-checklist: DR is still missing, submission can be tricky
- Crosspoint switch: further check ongoing installation next week (?)

- Operational
- Hiccough with Cuckoos: authorized ssh keys on pccorc36 were removed
- 74 mask alarms (reduced by a factor 2 wrt last week): Check the alarms of your equipment (Si, target, MM, ECAL1/2, CEDARs)
- 230 settings differences (20% less): Update your references

- Commissioning of old field rotation script done
- Long lasting solenoid at full current done

- Commissioning of new field rotation script today
- Long lasting dipole at full current after target material loading
- Check of the NMR system

- Worked finished from CERN side
- Installation of new PMTs starting from next week



Status of other setups

- NA64: Setup to be dismantled next MD
- Proton radius:
 - Collecting data
 - TPC in self triggering mode
 - Trigger prepared by Moritz
 - TDC and DAQ sync to be done
 - Si commissioning
- MuOnE:
 - collecting data
 - Calorimeter (PbWO4) to be cabled beginning of May -1MD-

Beam line and beam time

- Li to be installed (to be discussed with TC, Erwin and Vladimir)
- Around 42 units since Monday (cannot really expect higher before last week of April)
- Some downtime due to BLM (not fixed yet, but patched and operationnal for the moment)
- Mu+ beam file prepared for slightly higher intensity for PRM for the weekend

Acknowledgement

A great thanks to:

- To all shifters from this week and from the previous one
- To all detectors experts

Your next weekly coordinator: Michael Pesek
Good luck!

Of course a reminder

- Switch your on-call phones ON
- Check bookies and update references (DCS and cool)
- Sign up for Shifts: <https://compassshifts.web.cern.ch/compassshifts/>
- Once all points are checked: You are kindly invited to the beginning of Run BBQ Sunday 15th 11am-4pm.

BACKUP