

General (Stefan/Kin)

- Kin: Trivial changes of OPM 11.2.2 don't require "read & ack" but C. Hoffman (C-AD) made a mistake. After my "complaint", she corrected it (making the red 11.2.2 disappear from training.bnl.gov) 😊 Nevertheless, OPM 2.28 does require "read & ack" 😞 [They now require filling out USI check list.]

Current Priority Items (PC)

- Get TPC to work (again)
- DAQ development for reliability and speed
- Continue cosmics data
- Identify work plan for subsystem maintenance so that we only open/close detector once

Work Control Coordinators (Chris/Joel)

- Chris
 - TPC Test Vessel documentation has been passed along to CAD (Mike Dany). I have explained to him that we are expecting to install the test vessel early next week. Waiting for comments/questions
 - Joel-no updates

Plan of the Day (Stefan/PC/all-to be revisited at end of meeting)

- Continue cosmics
- Continue DAQ development

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Evening (Chris McGinn)

- Lost control software computer for MVTX - Cameron able to restart remotely and we were able to monitor again
- Lost CONTROLROOM1 monitoring machine - recover on reboot but for my information, should this trigger a run end until recovery?

Night (Christine Aidala)

- MVTX clock errors L1_04, L2_18
- MVTX stuck at 1 event, Fix_MVTX_OR_TPC_StartRun.sh twice didn't work, and stopping and starting a new run didn't help, either. Then lost MVTX monitoring and couldn't bring it back, so called Cameron. He ended up having to exclude FLX1, but after that we could run smoothly with 5/6 of the MVTX. FLX1 still out at start of Day shift.
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Day (C.Woody)

- Inherited run with MVTX problem (FLX1 missing). Experts worked on this for several hours and eventually restored it (required resetting ITS CommLayer and MVTX server)
- Started DAQ development ~ noon (no cosmic data taken after that).
- INTT LAD2 cooling tripped. Called Rob AND Rachid (as per Standing Orders). Rob calls Frank and he resets the chiller. Flow eventually gets back up to 5 l/m. We then call Rachid and he walks us through turning on and checking the INTT LV and HV. INTT is now back up and running again. However, INTT expert (Raoul) asked that we shut it off

so that he could work on the FELIX firmware. Please check with him when it's possible to turn INTT back on again and out it back in the Big Partition.

- TPC was temporarily taken out of Big Partition to do some DAQ work but is now ok to put back in when resuming cosmic data taking.

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Magnet (Kin)

- Magnet temperature has drifted to around 60K. The Cryo group is working for the LN2 operation — hopefully completed by next week.

MBD (Mickey)

- Nothing to report

Trigger (Dan)

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GTM/GL1 (Martin/Dan/John K)

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DAQ (Martin/John H)

- Dan: looking into new FPGA version from Chi for compressed format
- Jamie, JaeBeom: working on weeding out DAQ errors/implementing exception handling

MVTX ()

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TPC (Tom Hemmick, Jin, Takao, Evgeny, Charles, Bob, Ross, Nick, Rob, John K., Thomas)

(Charles in Bob's lab at the moment)

- First TPC Gas Test:
 - Today Bob received Rob's Ar/CF4 (thanks to Frank, Rob, Kin, etc...)
 - Performing test in Bob's lab now:
 - 1. Hook up Rob's Ar/CF4 to Bob's canary chamber
 - 2. Flush out the old mixture (takes some time, 1-2 hours)
 - 3. See if signals from the Fe-55 source disappear in Rob's gas
 - **So far: no difference - Bob's canary still sees signals**
- TPC FEE Maintenance:
 - Charles did deep power cycle (thanks to Jin and Takao for help)
 - Charles re-programmed SAMPAs
 - TPC is ready to be included in big partition whenever run starts again
 - (HV will be off, it is for monitoring runs)
 - I have informed shift crew, and posted on [Run 2023 mattermost](#)
- Miscellaneous:
 - To Jamie's question about TPOT/TPC firmware:
 - Jin: **"FEE firmware versions are the same between TPC and TPOT, which is recorded continuously (on grafana) for months. And our configuration for FEE is also reproducible via Ansible and git."**

TPOT FIRMWARE										
Host		FEE ID		FEE Info						
Time	dam_fpga_firmware_bi	dam_fpga_firmware_bj	dam_id	fee_fpga_dna	fee_fpga_firmware_bui	fee_fpga_firmware_buj	fee_fpga_firmware_bui	fee_id	fee_sn	hostname
2023-08-18 14:15:30...	2023-05-29 11:04:00	0xE3E92819	0	0x24CC4E782A2854	35	2023-01-08 05:37:34	0xB5199B44	06	33210781	ebdc39
2023-08-18 14:15:30...	2023-05-29 11:04:00	0xE3E92819	0	0x2874843EB8C854	35	2023-01-08 05:37:34	0xB5199B44	05	33210752	ebdc39
2023-08-18 14:15:30...	2023-05-29 11:04:00	0xE3E92819	0	0x46C4E782A2854	35	2023-01-08 05:37:34	0xB5199B44	12	33210901	ebdc39
2023-08-18 14:15:30...	2023-05-29 11:04:00	0xE3E92819	0	0x3074843EB8C85C	35	2023-01-08 05:37:34	0xB5199B44	25	33210666	ebdc39

TPC FIRMWARE										
Host		FEE ID		FEE Info						
Time	dam_fpga_firmware_bi	dam_fpga_firmware_bj	dam_id	fee_fpga_dna	fee_fpga_firmware_bui	fee_fpga_firmware_buj	fee_fpga_firmware_bui	fee_id	fee_sn	hostname
2023-08-18 14:15:45...	2023-05-29 11:04:00	0xE3E92819	0	0x3074843EB8C854	35	2023-01-08 05:37:34	0xB5199B44	15	33210679	ebdc03
2023-08-18 14:15:45...	2023-05-29 11:04:00	0xE3E92819	0	0x34CC4E782A285C	35	2023-01-08 05:37:34	0xB5199B44	01	33210948	ebdc03
2023-08-18 14:15:45...	2023-05-29 11:04:00	0xE3E92819	0	0x34D4843EB8C85C	35	2023-01-08 05:37:34	0xB5199B44	04	33210777	ebdc03
2023-08-18 14:15:45...	2023-05-29 11:04:00	0xE3E92819	0	0x3884843EB8C854	35	2023-01-08 05:37:34	0xB5199B44	18	33210650	ebdc03

- To John H's question about pulser test:
 - We tried to contact John K. - no response, we will keep trying
 - Ok if waits until next week BUT we really should do it then
 - Good to convince ourselves that pads are not floating (as John H. said)

HCal (Stefan)

- nothing

EMCal (Sean)

- Sal and Steve replaced the readout electronics for the temperature/humidity probes in rack 3c5. Relative humidity readings (inside the sectors) are now typically 1-10%. For now, channel H31 on the south side reads the humidity in the rack, so should be higher than the others. The temp = 0 degC for H31(south) is a known issue. We will track the readings and probably balance the N2 flows further.

TPOT ()

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INTT (Genki)

- Smooth data taking until the chiller issue. The detector was recovered.
- We need to work on the FELIX firmware development to achieve the best timing resolution. During the work, we cannot take cosmic ray data.

sEPD(Tristan)

- Connected signal cables to digitizers for north box
- In all, test pulse visible in 763/768 channels
- Still waiting for jumper for bias power to be installed

Gas/Cooling ()

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ZDC ()

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Background Counters ()

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Online Monitoring (Chris)

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