General (Stefan/Kin)

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Current Priority Items (PC)

- Cosmics data with TPC with clean trigger (with all tracking detectors)
- Cosmics with all subsystems on
- Characterize TPC behavior Canary chamber
- DAQ development: fix event counts; test compressed format, zero suppression, multi-event buffering
- Plan for bore access
 - Week of QM (Sept 4) open pole tip doors, techs start work (e.g. take apart sEPD)
 - Week after QM (Sept 11)
 - Start digging a small hole to get access
 - MVTX investigates cable issue
 - Sept 18 TPC group works on a few GEM stacks
 - Sept 25 Turn HV back on, see if maintenance was successful in last week of shifts with cosmics

Work Control Coordinators (Chris/Joel)

- Canary chamber installed
 - But NIM crate needs to be swapped

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

- Cosmics with all subsystems
- Singles trigger with all subsystems
- TPC work

Evening (Shuhang)

- Short pedestal run with EMCal and HCal
- Short INTT pedestal run also
- 1 hour vertical north-south cosmic trigger with TPC included (GEM HV at 4,500 V and 4,600 V), before TPC was taken out from the big partition (b/c it could't be confirmed that fast spark protection was on)
- Continue on vertical cosmic trigger, few MVTX clock errors
- TPC monitor run in local mode around 11PM.

Night (Chris McGinn)

 Long cosmics run (~550k) + a couple shorter (~60k and 80k); uneventful outside of a few mvtx clock errors

Day (Veronica)

- A few cosmic runs; DAQ was quite smooth
- As of SCM, Michael Peters is in control of MVTX; do not start runs until he is complete
- Michael Peters changed the voltage supply (color scale has shifted slightly, but should still be just fine as an indicator of clock errors)

 We learned that we did indeed get data yesterday with all 3 tracking systems! Detector groups are looking into run 25926 to cross-correlate info

Magnet (Kin)

• Same as the last few days (Magnet temperature drifts up — waiting for the Cryo group to implement LN2 cooling).

MBD (Mickey)

Nothing to report

Trigger (Dan)

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GTM/GL1 (Martin/Dan/John K)

Jo Schambach and I did the "BCO test" this morning. We find that the BCO in the GL1 data stream and the MVTX are off by 1 (but fixed).
Question - difference in recollection whether or not the observed INTT vs MVTX BCO differences were fixed or variable (I seem to recall they could be -1, 0, 1?)
Joe mead is on it. Could be MVTX only, or all GTMs, or...

Here is what Jo saw for 3 events:

0xb44b769214 0xb48d7a80ed 0xb4b5a35fdf

phnxrc@daq00:~/operations/GL1\$ ddump -n0

/scratch/phnxrc/GL1/junk/GL1_junk_daq00-00025600-0000.evt | grep Beam

Beam Clock: 0xb44b769213 774360175123 Beam Clock: 0xb48d7a80ec 775467729132 Beam Clock: 0xb4b5a35fde 776141496286

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DAQ (Martin/John H)

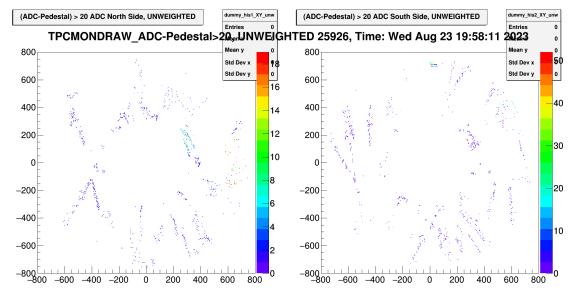
MVTX ()

- No issue for Run 25927
 - o 0 hit because of a typo of the FEEID (10 is not in FELIX0)
- Currently analyzing at Run 25926 to check the cosmic event with MVTX + INTT + TPC + TPOT in the big partition
- Changing power unit supply voltage from 3.5V to 3.3V this should improve power unit calibration accuracy

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

Yesterday 08/23 after SCM

- Performed a test where Evgeny disconnected the "return ground" on CM power supply
- Then ramped up and re-fired laser
- LASER SIGNALS STILL THERE EVEN WITH DISCONNECTED CM RETURN GROUND
- This (probably) rules out the disconnected ground as cause of disappearance of signals
- Martin helped us get set up on GTM0, confirmed laser fire there
- Got TPC in big partition with MVTX, INTT, TPOT, HCAL, ZDC, and sEPD for cosmic runs:
 - 25925 TPC at 4500 V
 - 25926 TPC at 4600 V



- MVTX, INTT, TPOT hunting for BCOs
- TPC HV ramped down because unsure if fast spark protection on
 - No new damage, but didn't want to risk it
 - David helped clarify we should be able to run tonight
- Early Today 08/24
 - Approx 10 AM, Rob hooked up the gas to the canary chamber
 - Approx 1230 PM, Charles finished the pulser test on TPC North Side
 - o Approx 130 PM, Canary signal/HV cable hookup and turn on began





- Unfortunately it seems that the canary is not functioning entirely properly
 - Malfunctioning NIM crate (Joel, Tom, and Evgeny already mentioned)
 - Getting new one now
- Later Today 08/24
 - Want to verify canary works (Frank had an update just now)
 - Then, turn on HV for cosmics running as everyone is eager for

HCal (Shuhang)

nothing

EMCal (Sean)

- Nothing new
- Note to shift crews: please make a note in the EMCal elog if/when you turn on the EMCal SiPM bias voltage. Turn to high gain to increase likelihood of cosmic signals

TPOT (Hugo)

- Nothing new
- Processing run 25926 (jobs ongoing). Will post the relevant evaluation files (clusters) on mattermost when available. Would be nice if other subsystem could do the same so that we can look up BCO events with INTT, MVTX and TPOT in with existing software. (same as done for run 25475

INTT (Genki)

It's stably operated



sEPD()

• Has been off for a while.....

Gas/Cooling ()

ZDC ()

Background Counters ()

Online Monitoring (Chris)

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