

General (Stefan/Kin)

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Current Priority Items (PC)

- Get TPC to work (again)
- DAQ development to get to high speed
- Continue cosmics data with coincidence trigger when we can
 - Pending Dan's schedule we should rotate HCal trigger area tomorrow or Monday
- Identify work plan for subsystem maintenance so that we only open/close detector once
- Switch to HCal singles trigger soon for IHCal tower-by-tower calibrations

Work Control Coordinators (Chris/Joel)

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

- Run DAQ analytics according to DAQ expert instructions in elog
 - This takes priority over cosmics for the weekend
- Monitor buffer box space in shift summary report
- Continue cosmics with HCal coincidence trigger after DAQ development (shift crews).
Leave TPC and EMCAL out until Monday
- Work towards investigating cause of TPC problem (test chamber, experts, technicians))

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Evening (Chris McGinn)

- Experts doing DAQ testing most of shift
- At the end, turned over to us to continue this mode - first pass instructions here:
 - <https://sphenix-intra.sdcc.bnl.gov/WWW/elog/Run+2023+Log/3070>
 - Feedback - instructions require some refining if we continue in this test mode, I will take time to rewrite w/ more clarity next shift if necessary
- INTT ready for reincorporation into big partition if we leave DAQ test mode
- sEPD out all weekend (jumper cable missing)

Night (Christine Aidala)

- Ran DAQ debugging requested by JaeBeom until got "RPC: Remote system error - Connection refused" from all involved seb's, a bit after 02:00. Couldn't reach an expert right away, so tried switching to cosmics, but got other errors: "Could not open output file". JaeBeom got back to us and looked into it, eventually discovering after 04:00 that the bufferboxes were full. Decided to wait until Day shift for various experts to delete unnecessary data files, so did not take data for the rest of the shift.
- MVTX clock errors L1_04, L2_01, and once I forgot to write it down, but it was on the left side of the GUI

Day (Craig)

- Started shift with all buffer boxes full and unable to take data.

- After getting ahold of Chris, he started cleaning up the buffer boxes by deleting files that had already been copied to SDCC. This freed up enough space to allow DAQ development to proceed.
- However, he found that the biggest user of space was the TPC, so he asked that the TPC group copy and/or delete files on the buffer boxes.
- After contacting Charles Hughes, he and Chris deleted and or copied some of the TPC files which freed up ~ 600 TB of space on the buffer boxes. This should be enough to get us through the weekend (and presumably beyond).
- However, since the TPC is switched off, we should leave the TPC out of the Big Partition if or when we resume cosmic data taking.
- We should also leave the EMCAL out of the Big Partition for cosmic running (at least for this weekend) since it currently also has its bias voltage switched off.
- After fixing the buffer box problem, most of the shift was spent doing DAQ development (no cosmic data taken)

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Magnet (Kin)

- Magnet temperature continues to drift.

MBD ()

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Trigger (Dan)

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GTM/GL1 (Martin/Dan/John K)

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DAQ (Martin/John H)

- Jamie - Improved code in jseb02, some edge cases are handled better now
- To add HCal and MBD with EMCAL for further testing

MVTX ()

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

- Yesterday 08/18:
 - **First gas test results in no change w/ canary chamber**
 - We leave Rob's gas flowing through canary chamber over weekend
 - Will run some follow up tests on Monday
 - Clarification on SAMPA programming:
 - Charles re-programmed SAMPAs yesterday
 - Kin said some confusion on this:
 - It is a routine operation, it is done after every power cycle and regularly to reset FEE cards. **This is not a fix for the TPC woes**
 - Status of insertion of canary chamber into IR
 - Construction proceeding very well, thanks to Bill Lenz, Jeff and Aaron
 - Frank cut HV and signal cables for Bob

- Will have further update by Monday SCM
 - Tried to get a hold of John K. for pulser test
 - Again, no luck and he is on vacation starting tomorrow - TPC group may have to do an ad-hoc pulser test next week (Tom has an idea)
- Today 08/19:
 - TPC events from “cosmics” run filling up bbox
 - Preventing DAQ development
 - All since last Sunday 08/13 are monitoring run because HV has been off
 - Chris deleted everything that was already copied to SDCC
 - Charles deleted everything that is not desired to be copied to SDCC
 - Chris will copy over the rest (he instructed me to let him do it)
 - **612 TB freed up** - should be enough for DAQ work
 - If more needs to be freed up, please let TPC know
 - Shift crews instructed to **LEAVE TPC OUT OF BIG PARTITION UNTIL MONDAY** (unless otherwise instructed by TPC expert)
 - [E-log post here](#)
 - [Run 2023 Mattermost post here](#)
 - Not added to standing orders page because only temporary
 - Call Charles (expert list) if further questions

HCal ()

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EMCal ()

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TPOT (Hugo)

- I called around 2:20 for a small intervention on one of TPOT HV channels. The channel was drawing some small current that is "new" for the last few days. I turned channel OFF, left it there for some time (10 min), then back on. Current is back to zero and channel operational
- Nothing else to report.

INTT (Genki)

- We confirmed the behavior in the streaming readout at various operating frequencies is as expected from the measurement yesterday.
- INTT is stably taking cosmic ray data.

sEPD()

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Gas/Cooling ()

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ZDC ()

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Background Counters ()

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Online Monitoring (Chris)

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