

General (Stefan/Kin)

- Kin: Both “1008 LN2 installation” and “1004B valvebox opening” can be done after the work permits are signed and complete. (C-AD cryo group would be doing both.)
- New period coordinator from tomorrow: thanks Joe, welcome Hugo!

Current Priority Items (PC)

- Cosmics with all subsystems on, EMCal in high gain
- Characterize TPC behavior - Canary chamber, pulser tests etc.
- DAQ development: fix event counts; test compressed format, zero suppression, multi-event buffering

Work Control Coordinators (Chris/Joel)

- Joel - No Updates

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

- INTT local mode running after meeting only
- DAQ development
- Cosmics, all subsystems on with seb14 out
- TPC work

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Evening (Shuhang)

- MVTX clock error L2_09, L2_12
- seb14 desync (3 events)
 - [phnxrc@seb07 ~]\$ pwd
 - /home/phnxrc
 - [phnxrc@seb07 ~]\$ tail rcdaq_seb14.log

Night (Christopher McGinn)

- Lots of restarts on Accurate Event Count desync
 - Almost always seb14 (ZDC/sEPD)
 - Think we should reconsider yesterday’s discussion, especially if it can be confirmed accounting for this offline is easy
- INTT LAD2 and INTT Cooling Interlock went off ~5:05
 - Acknowledged, confirm LV off, call Rob (left message) and Rachid
 - End run, remove INTT from BP, and resumed
 - Noticed later alarm was listed as unacknowledged in Annunciator
 - Clicked acknowledge there upon noticing but unclear on why this is necessary; assumed VISION machine was where we hit acknowledge
- MVTX Clock errors L2_14, L2_09, L0_01
 - L0_01 only listed in DAQ log, not in shift summary

Day (Veronica Verkest)

- Thanks to Rob and Rachid, INTT went back into BP at 10am
- DAQ running stably for hours at a time (I think I’ve just been lucky...)
 - Slightly less luck later on in the day shift—seems good again
- Humidity alarms over the past few days were not fully dependable

- Dave and Joe told Joel and Aaron how the IR humidity value fluctuates >10% over a couple minutes
- Upon inspection, there was actually a loose connection; they fixed it up and dusted it off; will continue to keep an eye
- Tested new TPOT plugin with DAQ (still in development)
- JSchambach reconfigured MVTX FELIXs
- AHodges plans to look into EMCal OnlMon "weirdness"
- witnessed MVTX go into "mixed state" in run 26084, Zhaozhong fixed it
 - At least no clock errors today!
- Currently, no orders to "acknowledge" alarms on the annunciator screen
- Martin says it is better to stop if seb counts are misaligned... (tough w\ owl shift)

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Magnet (Kin)

- Work permits for LN2 installation (and Blue snake) have been completed (Chintan Sheth told me this morning). Hopefully they can do the welding today / tomorrow, which is then followed by leak checks ...

MBD (Mickey)

- Nothing? Did someone change the MBD seb to seb14? We have always been running on seb18. I think seb14 is ZDC/EPD? Yes it is ZDC/EPD - a game of telephone transpired

Trigger (Dan)

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GTM/GL1 (Martin/Dan/John K)

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DAQ (Martin/John H)

- A bit more debugging for the new TPC/TPOT plugin going on. TPOT is playing guinea-pig... thanks!
- The /bbox file system has been treated a bit like a free-for all. Remember that it is NOT a general-purpose file system. By design (and even more so by its tune) it is meant for mostly large files, and the occasional unavoidable small one. But we are hammering it with thousands of small files, which is one way of killing the performance. I'm in the process of setting up a new not-backed up file server where all those log files, monitoring output, etc can go without taxing the backup system (that, btw, is still sitting at 99% after a subsystem dumped terabytes of output to /home)

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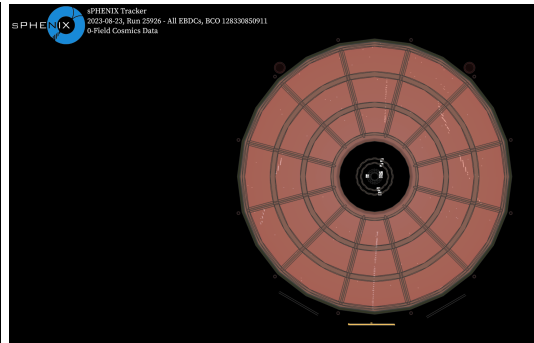
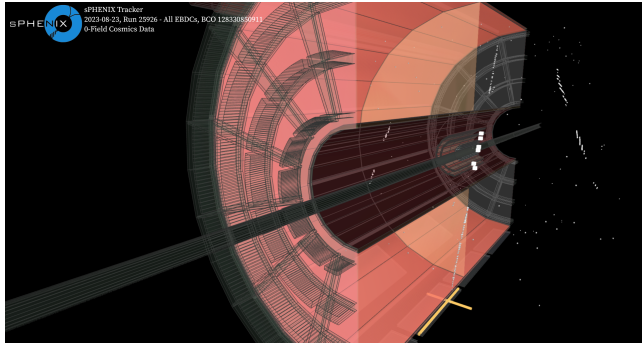
MVTX (Zhaozhong)

- Reconfigure the FELIX at around 2:30 pm (MVTX turn off and back on)
- Observed another mix state issue on stave L2_15

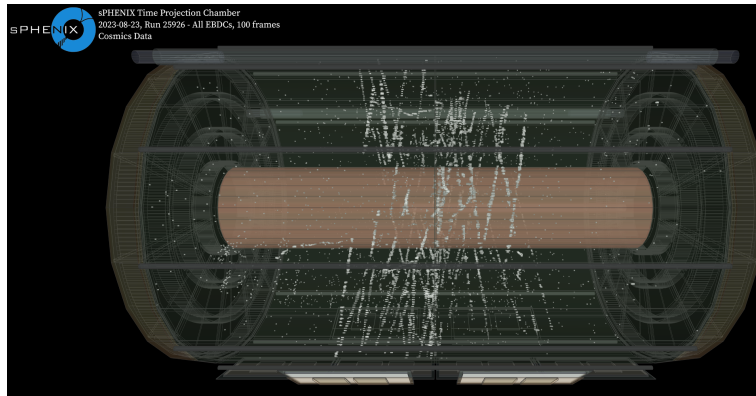
TPC (Tom Hemmick, Jin, Takao, Evgeny, Charles, Thomas Marshall, Bob, Ross, John K.)

- Yesterday 08/27:
 - Jin put together data from ZhaoZhong, Cheng-Wei, Thomas Marshall, and Hugo

- **Run 25926 (4700 V): BCO 128330850911 / 1DE11D625F**



- **Run 25926 (4700 V): 100 Frames**



- Jin found 2 kinds of mapping errors that were preventing tracks from aligning sector to sector and within a sector
- Additionally, TPC ran overnight at 4700 V again (been running almost 72 hours !)
 - More fast and slow trips, all recovered, NO NEW DAMAGE
- [Martin helped us with getting proper packet id range in OnlMon](#)
- Today 08/28
 - Evgeny working on applying a treatment for Jin's diagnosis
 - Jin fixed ad-hoc by applying correction to coordinates
 - Proper fix would be implemented in map itself
 - Work on TPC DAQ Plugin with Martin
 - Hugo is walking, so that TPC can run
 - Hugo + Martin starting on plugin with TPOT, TPC will follow
 - Handing over trip recovery to shifters
 - Charles found that Jin's grafana button works inconsistently
 - Works for JIn, not Charles
 - We should get this sorted before handing off to shifters
- **Plans for future**
 - Finish DAQ plugin
 - Finish pulser tests (SS R1s + R2s)
 - Finish fixing the canary
 - Finish including laser fires (need leveling scheme from Bob)
 - Finish map fixes (we continue to look at events)

- Clarify plan of action during deep access to TPC (tomorrow 9 AM)
- Use the correct map to get a correct probability dist. of cluster charge.
- **STANDING ORDERS FOR TPC REMAIN UNCHANGED**
 - Charles will post them again to Run-2023 mattermost for clarity

HCal (Shuhang)

- Nothing

EMCal (Sean)

- Nothing New
- Over weekend shift crew noticed low current reading for Sector 50 low voltage. This is a known issue (disabled Interface board). It can be ignored.

TPOT (HUGO)

- Went in to check cooling flowmeters for FEE12 (NEIZ). Found flowmeter at zero, adjusted flows between module and now temperature is back < 40degrees
- Testing updated rcdaq plugin from Martin to read two endpoints, in place of the one from Jin. Both packets are in the data stream, but read data is “strange” -> no signal observed in expected time window. <- needs more love
- Will switch back to old plugin to run overnight.

INTT (Genki/Raul)

- Request: run the detector in local mode to test clock alignments and event counters of new FELIX firmware. Starting right after this meeting.

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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