General (Stefan/Kin)

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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)

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

- Cosmics, all subsystems on

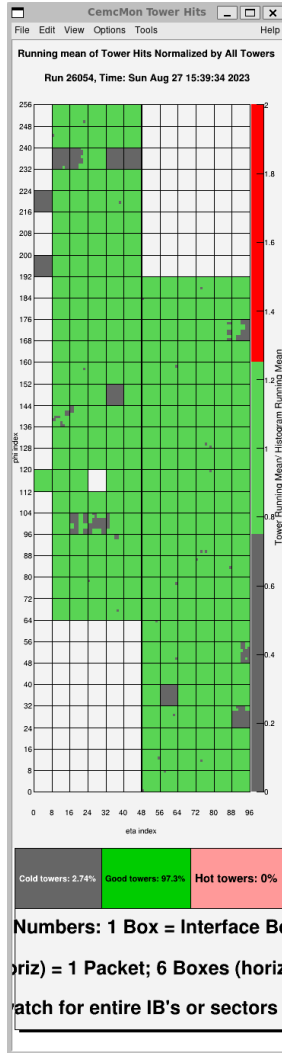==

Evening (Shuhang)

- 16:45 the LAD2 alarm and cooling alarm, switch to run without INTT. LAD2 went back around 21:50, cooling alarm reset around 22:30, included INTT back in the big partition after that.
- 22:43 MVTX FSM status stuck at mixed after recovered from the clock error, fixed by expert

Night (Owl)

- DAQ issues requiring repeat stop/start from 00:40-01:30; again from 02:40-03:30
- Otherwise took a few long cosmics run w/ EMCal in high gain
- Q: Should we reset at any level of observed desync in seb accurate event count? See linked example
    - https://sphenix-intra.sdcc.bnl.gov/WWW/elog/DAQ/230827_061200/seb05_OutOfSync_20230827.png
    - If two missing events is recoverable offline, I think the risk to a long restart period means we should prefer keeping DAQ running to maximize data
    -
- D.Op. noticed ch1 slot 11 has no current - logged
    - https://sphenix-intra.sdcc.bnl.gov/WWW/elog/EMCAL/373
    - https://sphenix-intra.sdcc.bnl.gov/WWW/elog/EMCAL/230827_020331/ecalLV_Ch1Slot11NoCurrent_20230827.png

CemcMon Tower Hits

Running mean of Tower Hits Normalized by All Towers

Run 26054, Time: Sun Aug 27 15:39:34 2023

Cold towers: 2.74%   Good towers: 97.3%   Hot towers: 0%

Numbers: 1 Box = Interface B

oriz) = 1 Packet; 6 Boxes (horiz

atch for entire IB's or sectors

○

Day (Veronica Verkest)

- DAQ has been behaving; only minor bumps (no new orders)

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Magnet (Kin)

- Nothing new.

MBD (Mickey)

- Nothing to report

Trigger (Dan)

-

GTM/GL1 (Martin/Dan/John K)

- GL1 DB additions now complete, still testing all kinds of edge cases

DAQ (Martin/John H)

- Updated and committed the TPC plugin changes so it's ready to go for tomorrow - https://github.com/sPHENIX-Collaboration/tpc_dam/blob/master/README.md
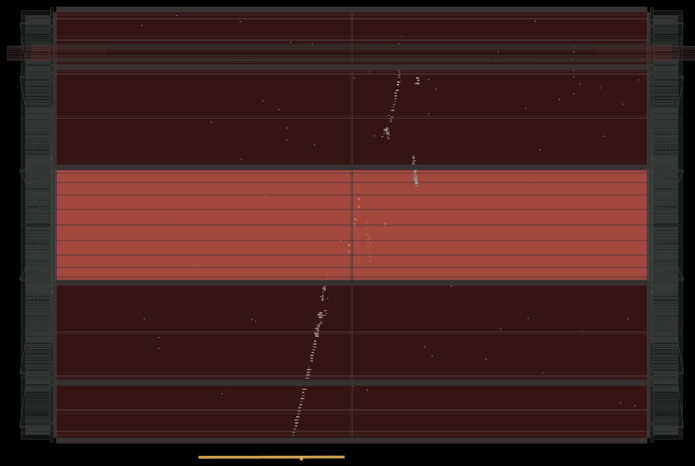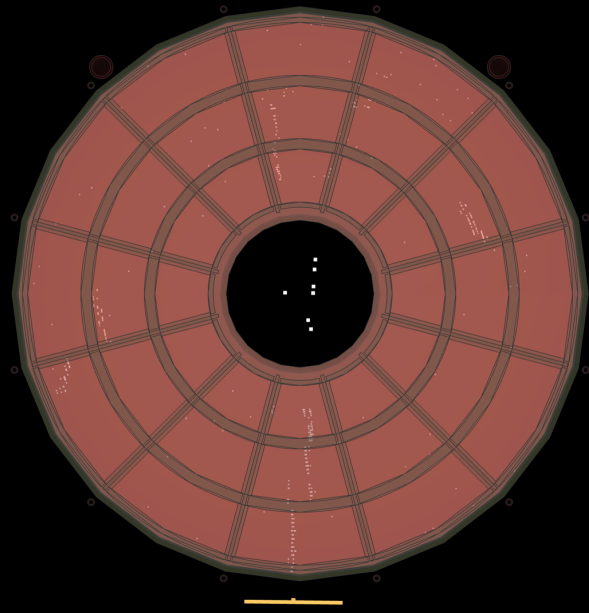
(also made an unrelated fix to the TPC Onl. monitoring, about to send a PR)
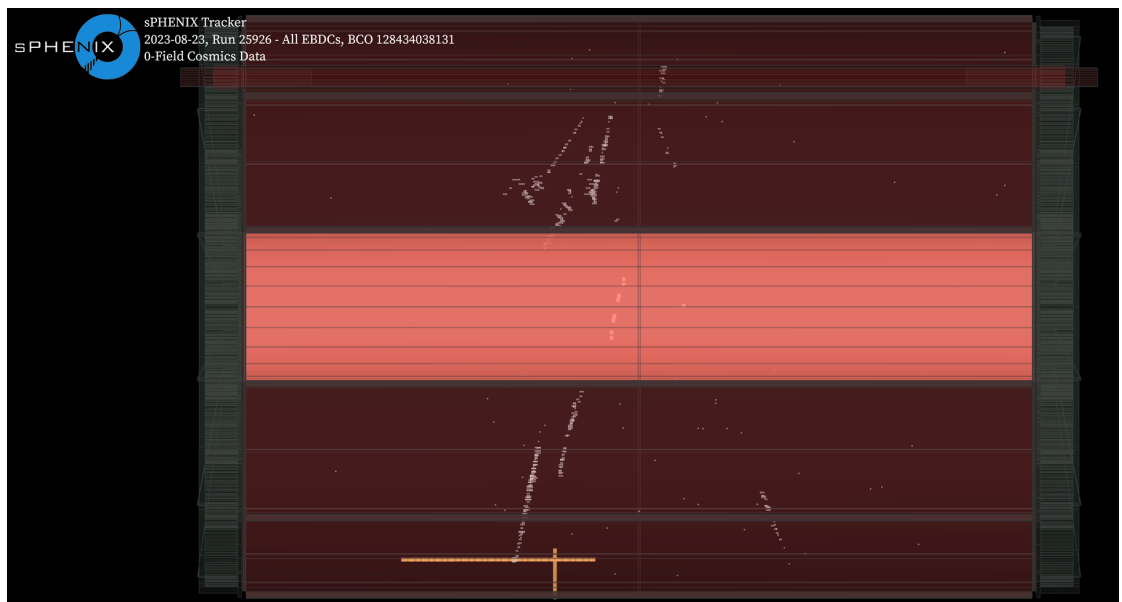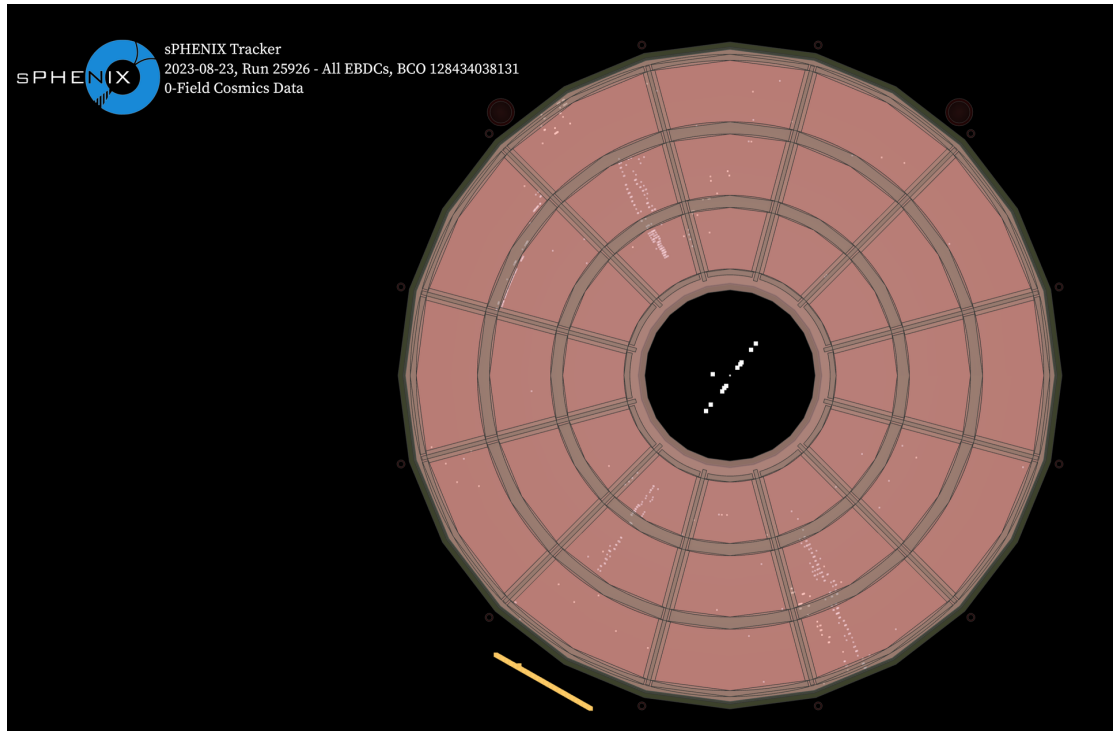
MVTX (Zhaozhong)
- Decoding for Run 25952 is still ongoing, fixed a few bugs due to format change when running on mvtx-flx0
  - Finish the first 3 files for FELIX 0 - 6
  - Get 207 BCO candidates for cosmic
  - MVTX BCO list posted on Run page: https://chat.sdcc.bnl.gov/sphenix/pl/n95kno4owpgjicam4kd59ui17a
- Record the issue of mix state:
  - FELIX 2: L0_01 is in mixed state at 10:49 pm 08/26/2023
  - HIC0 is STBY_CONFIGURED while all other are in ready state
  - Fixed the issue to make HIC0 of L0_01 ready
- Discussion in MVTX group:
  - understand the correlation with mix state to clock recovery.
  - Will the mix state issue auto-recovered without intervention? If so, how long?
- Michael asked to close out and restart GUIs. Now when you recover clock error it is recorded automatically.

TPC (Tom Hemmick, Jin, Takao, Evgeny, Charles, John K., Bob, Ross, Thomas Marshall)
- Yesterday 08/26 after SCM
  - Overnight 4 trips/12 hours - 3 fast, 1 slow: NO NEW DAMAGE
  - Jin and Thomas Marshall investigated producing MVTX + INTT + TPC + TPOT Event Display:
    - **Run 25926 (4700 V), BCO 128330850911 / 1DE11D625F**

- ■ From Jin: "The big missing R3 on top is u312 which has GEM touching pad (therefore capped at low voltage). It will take some time before any hit can be found in that module"
- ■ **Run 25926 (4700 V), BCO 128434038131 / 1DE743E573** (Hugo recommended this)

- ■ From Jin: "Interesting, compositing Hugo and Thomas' file, and that is rather unexpected."
- ■ Match b/w TPC and other tracking detectors not as good for this BCO…
- ● Today 08/27
    - ○ 1 slow trip as of writing (approx 12:30 PM). Recovered, NO NEW DAMAGE
    - ○ Continuing with cosmics and TPC at 4700 V
- ● Plans for future:
    - ○ Keep hunting for matches b/w MVTX, INTT, TPC, and TPOT
        - ■ Thanks to Thomas Marshall + Hugo, ZhaoZhong, Cheng-Wei, etc…

- - - Keep TPC going at 4700 V (no plan to raise to 4800 yet, sorry Stefan)
    - Fix canary chamber (next week)
    - Hand over trip recovery to shifters (next week)
    - Work on finishing up pulser test (next week)
    - Work on TPC DAQ Plugin with Martin (next week - Monday)
    - Work on incorporating laser fire into regular running (next week, maybe)
      - [Martin suggested a possible trigger configuration](#) for running laser in concert w/ cosmics:
      - Need to follow up with Bob about proper intensity leveling scheme
    - **STANDING ORDERS FOR TPC REMAIN UNCHANGED**
      - Charles will post them again to Run-2023 mattermost for clarity

HCal (Shuhang)
- IHCal data looks fine after turning the LV back on

EMCal ()
-

TPOT (Hugo)
- Temperature of one FEE is starting to increase slowly again (FEE12). I'll fix tomorrow once I am at BNL.
- Nothing else to report

INTT (Genki)
- No news

sEPD()
-

Gas/Cooling ()
-

ZDC ()
-

Background Counters ()
-

Online Monitoring (Chris)
-