

General (Stefan/Kin)

-

Current Priority Items (PC)

-

Work Control Coordinators (Chris/Joel)

-

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

- HCal Cosmic running with INTT while beam down + [and TPOT \(in current configuration, it has no impact on live rate\)](#)
- Switch to 12 samples for calorimeters
- Big Partition running with EMCal, HCal, MBD, ZDC, GL1, LL1, sEPD, INTT if cooling flow rates allow
- TPOT DAQ studies,
- TPC running if experts are on hand.
- Monday we start to do TPC HV studies, we will go over that in Sunday's SCM.

=====

Evening (Nathan)

- Inherited no beam. AGS magnet error. Continual trips and quenches.
- Ran DAQ with HCAL cosmics. There were some very strange waveform distributions (see the HCAL elog #2138, #2140, and #2141). Virginia confirmed due to a hot tower. Later gain kept changing to Normal. Jaebeom updated the documentation to be clearer for the DAQ operator how to run cosmics.

Night (Tom)

- Inherited no beam and little hope for beam throughout the shift.
- Reconfigured TPC fibers so that the TPC was added into GTM0 so that it could be included in the big partition. Ran correctly immediately.
 - NOTE: Correctly means all but one sector, This is because one sector of TPC is presently reserved for firmware development of John K.
- 01:15 TPC at 4300 Volts and running on cosmic triggers as part of the big partition.
- Full run-set (~100k triggers each): 4300, 4400, 4500, 4600, 4700, 4750
- 04:30 Jin asleep; TPC off; move back to HCAL cosmics.
- Noted data transfer to RCF ongoing.

Day (Caroline)

- No beam, RHIC "in a failure" the entire shift, taking HCal cosmics data
- RHIC: main issue is initially b-qtrimv, which is under control at 11:20. Then they have issues to inject into Blue (Yellow is fine). MCR calls at 13:19 that they are going into CA., done 2:32pm
- Jaebom & Martin working on DAQ over zoom (HCal to 12 samples)

=====

Magnet (Kin)

- Nothing new to report.

MBD (Abdul)

- Nothing to report

Trigger (Dan)

-

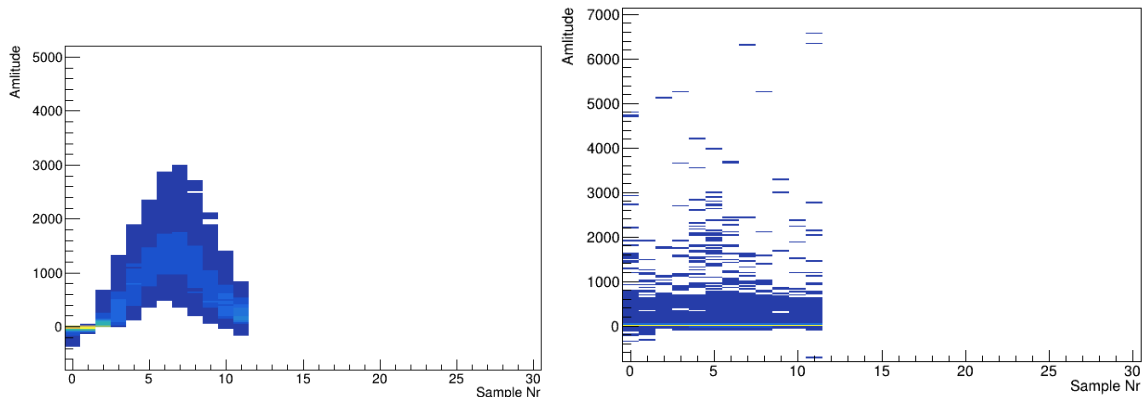
GTM/GL1 (Martin/Dan/John K)

-

DAQ (Martin/Jaebeom)

- (I will not be able to attend the SCM today)
- Jaebeom and I moved the HCal to 12 samples. See <https://sphenix-intra.sdcc.bnl.gov/WWW/eelog/HCAL/2143>

The plots below shows the LEDs and cosemics.



Virginia and I had discussed the capturing of the cosemics that come a bit later than the beam signal and would be too far “right”. For cosemics ONLY we add a gtm delay of 5 to get it where it is shown on the right plot. The scripts have been updated accordingly.

The endat is set to 300 on gtm 9 now.

I would suggest that we get one beam run with that before moving to the emcal

- I would like to request some time periods with one emcal seb set aside for debugging as we had done in the past. Now that we have much better debugging capabilities with the GTM, it will be easier to see where we lose events. I have some evidence that the GL1 data in v46 tell the truth about how many triggers were really issued. We need to resolve these issues now.
→ (Jaebeom) suggest seb06 :)

MVTX ()

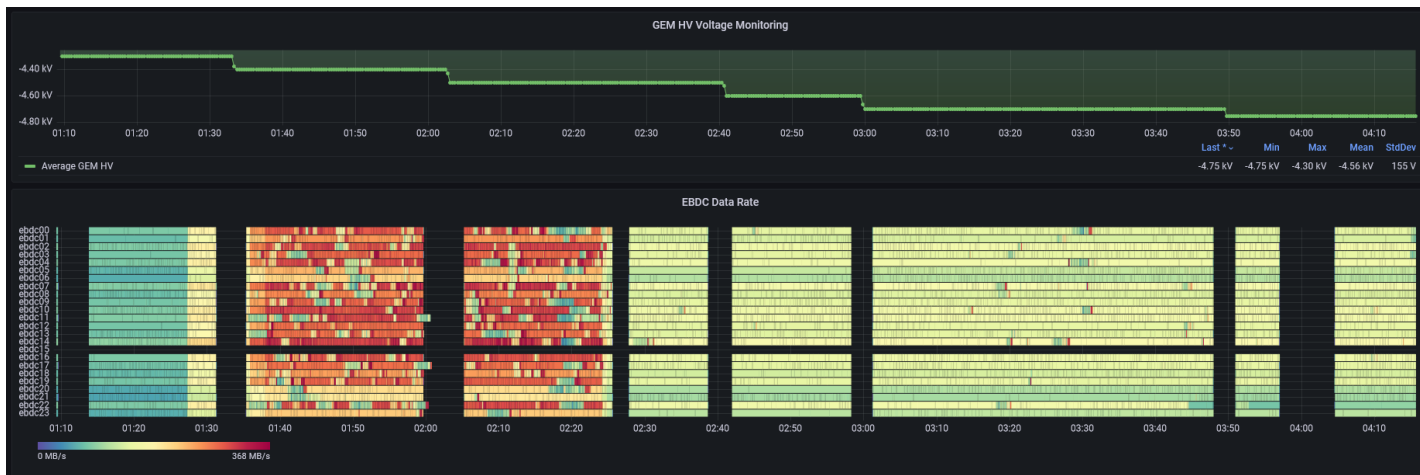
-

TPC (Tom, Hugo, Jin)

- Moved TPC from GTM1 to GTM0
- Added TPC back to big partition for cosmic data taking
- First TPC HV-on cosmic data
 - HV scan from 4.3kV to 4.75 kV
 - Reduced ConvTime that allows for near-saturate data logging limit at around 4-7GB/s and 40-70Hz



HV scan and data logging timeline



HCal (Virginia)

- Data monitors please double check HCal timing with beam when it comes back

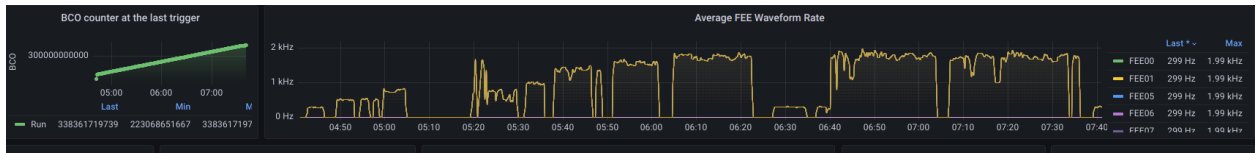
EMCal ()

-

TPOT (Hugo)

- Took cosmics data in big partition/global mode alongside HCal and TPC for 4 hours at a rate of ~ 60Hz, limited by TPC

- Took cosmics data in local mode after that. Re-did ENDAT scan, now that raw trigger rate is $\sim 10\text{k}$. Could not increase live rate above 1.8kHz , same value as live rate for HCAL. Is that expected? Could run stably at 1.8kHz for about 1h



INTT (Cheng-Wei/Maya)

- Raul did some work to test new firmware in the inttdaq machine. He will probably do some more measurement with beam.
- INTT would like to be in the big partition when taking the cosmic only if it doesn't bother other detector's works.

sEPD(Tristan/Rosi)

- Nothing new to report

Gas/Cooling ()

-

ZDC (Peter)

- Working on improved timing in signal fits

Background Counters ()

-

Online Monitoring (Chris)

-