

### General (Stefan/Kin)

- Yesterday's single beam test might be flawed because MCR forgot to switch off the continuous gap cleaning; this might have caused the backgrounds we observed. It's probably best to repeat this test early next week.

### Current Priority Items (PC)

- Unchanged:
  - high-speed calo read-out: aim to take physics data next weekend
  - MVTX backgrounds

### Work Control Coordinators (Chris/Joel)

●

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

- Access at end of current store (4-5PM) to recover EMCal racks (Joel/Frank/Damon) and look at sEPD missing channels (Tristan/Rosi)
- Big partition running with LL1, GL1, MBD, ZDC, HCal, EMCal (If recovered), sEPD, INTT
- HCal only cosmics if no beam
- INTT timing scan (local mode, 4hr) when FELIX north server firmware was installed
- Remember to check Z vertex location and have MCR adjust if required.

=====

### Evening ( )

- Kin: MCR forgot to turn off "gap-cleaning" during our steering exercise with the MVTX group. This may explain why we had very limited aperture (compared to what experts had expected). We need to do it again with Travis Shrey on Monday again.
- After the previous test, the beam was dumped. HCal LED run was taken.
- New fill came in at 20:00. INTT people were called as the chiller flows got to more than 5 lpm. After some minor DAQ issue, we managed to start DAQ. We found that the z-vertex was shifted to -6cm. Called MCR and eventually moved to -1.2cm.
- INTT DAC runs and big partition runs were taken.
- DAQ stopped at 270k events twice. I'm not sure this means anything.

### Night (Rosi)

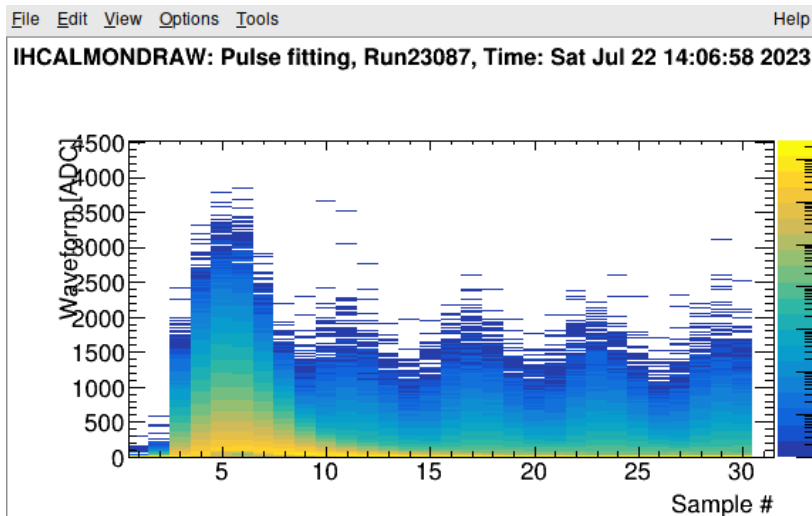
- Inherited beam from day shift, which ran until 12:42 am. The next store started at 1:50 am at 8.4 kHz. The vertex started at -5.7 cm, and with adjustment from CAD got to -0.1 cm. MCR wanted to give us the store so they can repair the AGS behind the store, so we will need to keep this beam for 8 hours.
  - Data was taken at the end (Run 23027).
- Started shift with INTT scans. (MBD triggered, run with MBD+INTT+HCal+EMCal+ZDC/sEPD). Took one "regular" big partition run to set up the MBD vertex - completed INTT Scans.
- EMCal rack 3C1 lost power to smoke detection and then went out. The DAQ died about 5 am, it did not like running without the EMCal - we decided to wait until power cycling before bothering.
- When we went to power cycle both EMCal racks 3C2 and 3C1 using visions, we could not. 3C1 showed as interlocked out, 3C2 would not respond. We did a controlled

access and tried to power cycle them directly, this did not work. This will need 2 - 3 hours to fix by Joel, Frank, et al. Currently the EMCal can not run, and the DAQ will not run with the EMCal in this state.

- There will be an access to fix the AGS, so MCR gave us a store at about 8 am that should last for 8 hours. INTT Scans completed so just run with the big partition. EMCal is not working due to the issue with racks 3C1 and 3C2, and the DAQ will not run without the EMCal

#### Day (Tristan)

- Arrived with racks 3C1 and 3C2 off from prior shift, causing DAQ to fail during configuration. Worked with Dan to resolve.
- Smooth running with GL1+LL1+MBD+ZDC+sEPD+HCal+INTT until ~14:30
  - Vertex good from the start (-2 cm, drifted positive over course of run to 0.1 cm)
  - 15 million events!
- INTT stopped accepting triggers, but expert was arriving shortly anyways to upgrade firmware - will ask them to investigate
- Oddity noticed in HCal pulse fitting - seems like it may have started after the special HCal runs last night. Was particularly noticeable in 23087, which is when we picked it up



- - General reminder not to change settings remotely without informing shift crew!
- =====

#### Magnet (Kin)

- Nothing new to report.

#### MBD (Mickey, Lameck)

- Nothing to report.

#### Trigger (Dan)

- 

#### GTM/GL1 (Martin/Dan/John K)

- 

#### DAQ (Martin/John H)

- Some leisurely-weekend work to fix some issues with the DB - event numbers get reported a 0 because of a sequencing issue - by the time we ask the run is already ended and the number comes back as 0.

```

daq=> select * from hostinfo where runnumber=23085;
•   runnumber | hostname |   updatetimestamp   | eventsinrun | logging_enabled
•   -----+-----+-----+-----+-----
•           23085 | intt0    | 2023-07-22 13:21:18 |             0 |                1
•           23085 | intt1    | 2023-07-22 13:21:18 |             0 |                1
•           23085 | intt2    | 2023-07-22 13:21:18 |             0 |                1
•           23085 | intt3    | 2023-07-22 13:21:18 |             0 |                1
•           23085 | intt4    | 2023-07-22 13:21:18 |             0 |                1
•           23085 | intt5    | 2023-07-22 13:21:18 |             0 |                1
•           23085 | intt6    | 2023-07-22 13:21:18 |             0 |                1
•           23085 | intt7    | 2023-07-22 13:21:18 |             0 |                1
•           23085 | seb14    | 2023-07-22 13:21:18 |             0 |                1
•           23085 | seb15    | 2023-07-22 13:21:18 |             0 |                1
•           23085 | seb16    | 2023-07-22 13:21:18 |             0 |                1
•           23085 | seb17    | 2023-07-22 13:21:18 |             0 |                1
•           23085 | seb18    | 2023-07-22 13:21:18 |             0 |                1

```

#### MVTX ()

- Single-beam test on July 21th

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

- TPC group will present a working plan for future running on Monday 07/24
  - [Meeting with Run/Period Coordination](#)
  - Will present updates on many TPC systems & commissioning overall
- No plan for TPC data taking with HV for this afternoon or this weekend or Monday
  - Future plan will be clarified with Run/Period Coordination on Monday
- Please leave TPC on GTM1 - we will do monitoring runs in the next few days

#### HCal (Virginia)

- “Wiggly” HCal pulses is something we have seen before. Not a big issue, probably related to beam backgrounds/debunching
- Detector operators- please record in the elog when you recover HCal trips and which channels tripped!

#### EMCal ()

- 

#### TPOT (Hugo)

- Nothing to report

#### INTT (Cheng-Wei)

- Request 5 DAC scan runs, finished by the shift crew. Analysis ongoing
- Raul will install the new firmware for the north side Felix servers.
- Request to do the time scan run with beam after the installation

#### sEPD(Tristan)

- Will go in with access today and investigate missing 4 channels. Most likely 2 loose cables on preamp 20

#### Gas/Cooling ()

- 

#### ZDC (Ejiro)

- Working on finalizing the ZDC calibration
- ZDC online monitoring & furthering SMD commissioning this coming week

Background Counters ()

- 

Online Monitoring (Chris)

-