

## HCAL Biweekly Meeting Minutes 4.14.21

### Nominal Agenda:

- Recent HCal work update
- Discussion of plans to move to Hall A
- What data we want to collect before we move to Hall A?
  - Full detector LED voltage scans
  - Recent cosmic data with scintillator paddles and summing module overlapping region trigger
- Other discussion

### Attendance:

1. Sebastian Seeds
2. Juan Carlos Cornejo
3. Scott Barcus
4. Vanessa Brio
5. Arun T
6. Brian Q

### Actual:

#### *Scott*

- fADC is back and working
- F1TDC clock is now working; running on TI 31.25 MHz
  - DAQ fully operational
  - Should have less jitter, better timing
- Will both E and H arm use the same clocks?
  - Fiber connects crates, but likely f1TDC clocks will not be synchronized
  - There will be a master crate
    - May be possible to carry a master TI for timing
    - Will need to verify with Alex C what goes into the master crate
- Received patch panel from Mindi
- Took clean air tubes measurements
  - Two different sizes
  - Need to forward to Albert
- DVCS pulser
  - Drives LEDs
  - Not pulsing correctly – under investigation
  - Signal to noise may be the problem
- Chris is designing DAC for control module
- Move to Hall A
  - Met with Jessie
    - May 10<sup>th</sup> is likely the time that the crane is back
      - Still viable given BB status (Arun T)

- HCal will move around that time
    - Plan to move HCal and BB at the same time (including racks)
  - Detectors need to be completely uncabled
  - Plan for cable storage and transport in progress
  - Must move racks individually
    - Craned/forklifted onto truckbed
    - Transported to Hall
    - 3 DAQ crates go under left HRS or craned over bunker
      - Rack is about 5 to 15 inches taller than clearance
      - May be able to tilt to clear the HRS
      - Not looking like all cables will need to be decabled on racks
  - **Down for 1 month** after move
  - HCal has no weldment
    - Racks should be more easily positioned in the hall
    - Jack will need to be consulted for BB, but not for HCal
- Data to collect
  - Cosmic data runs
    - With paddle trigger
    - With overlapping region trigger
  - LED scans
    - Get HV scan
- Push effective gain back to after hall installation
- APS
  - Juan Carlos – PREX Talk
  - Scott – Hcal Talk
- New cosmic run
  - Run 1659 available for analysis – new fADC installed and all channels functional