

HCAL Biweekly Meeting Minutes 9.15.21

Nominal Agenda:

1. Installation work:
 - a. Cosmic paddle installation.
 - b. 5 HCal floor plates arrived and installed.
 - c. HCal platform access stairs installed.
2. DAQ work:
 - a. HCal TIs connected to TS by fiber now.
 - b. Flags file works again, but now we have new errors to track.
3. HCal-BB coincidence timing measured.
 - a. ~450 ns, delay box added to BB rack.
4. LED work/progress.
5. Beginning cosmic HV calibrations.
6. Boot script.
 - a. Works but won't run on crate reboot.

Attendance:

1. Sebastian Seeds
2. Brian Quinn
3. Scott Barcus
4. Jim Napolitano
5. Arun Tadepalli

Actual:

Scott

- Installation of cosmic paddles
 - 1/3 Hz rate
 - Trying to improve rate
- Installation of 5 floor plates
 - One kinematic is being dragged into new position for extreme kinematics GMn
- Installation of HCal ladder-stairs to both mezzanines
- DAQ
 - Each crate is connected to overall trigger supervisor
 - Alex is testing
 - Fixed flags file pointer from CODA
 - LED pulser working, but error from replayed data (not affecting data)
- Cosmics ongoing
 - Next few days
- Measured coincidence with BB
 - 450 ns latency
 - Cable lengths mostly to account for this
 - Mark Jones gave delay box to solve

- LEDs ongoing
 - Bit patterns not correct
- Cosmic calibrations
 - Problem channels
 - Double peaking
 - Lower high voltage to remove pedestal-looking foot
- Energy calibrations
 - With beam
 - Sets up linear system to relate BB electron energies to e dep in each PMT (script being tested)
- FE discriminator
 - Monitor cables completed and working
 - Pending raspberry pi to monitor discriminators in CH