

HCAL Biweekly Meeting Minutes 8.25.21

Nominal Agenda:

- ADC and TDC channel checkout
- Grounding and 60 Hz noise (solved)
- Remote threshold
- Energy calibration code
- PMT transit time difference
- Cosmic tests

Attendance:

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

Actual:

Sebastian

- Overlapping regions trigger
 - JLab / CMU transit time difference measured: **13 ns**
- Grounding
 - FE electronics complete
 - DAQ electronics complete

Scott

- ADC and TDC channel check
 - Checking cabling paths – all ADC verified
 - Cables and electronics and software working
 - TDC software decoder broke
 - Mark J helped and fixed
- 60 Hz noise
 - Solved – oscilloscope ground loop. Not plugged into same rack, so ground loop through hall ground occurred
 - Picked up on extension cable – removed cable and fixed
 - Churchill monitor may pick up ground loop
 - Will check VME in HCal when hooked up
- Remote threshold
 - Reestablished contact in crate
 - GUI works after updates
 - Confirmed at FE side

- Equation map works
- Energy Calibration Code
 - Add calculation of errors
 - Otherwise completed update to geometry and tree structure
- Dead time
 - Need to check trigger dead time for 10 kHz and 5 kHz