

HCAL Biweekly Meeting Minutes 9.29.21

Nominal Agenda:

1. Recent cosmic results towards HV calibration
 - a. Chasing down individual channels
2. Online GUI plots
 - a. Sebastian has penguin working. Deciding what plots need to be in the GUI.
3. Various DAQ issues
 - a. Bad transceivers
 - b. Missing header bug
 - c. Combined DAQ timing. Data looks good
4. LED status
5. Other topics

Actual Agenda:

Scott

Review of odd channels

- 24-36 tubes with long tails
 - Change HV doesn't appear to move the peak
 - Peaks could fall out of window – probably not owing to similarity between max and int
 - Could be a light leak
 - Behavior on both CMU and JLAB
 - Not LEDs
- Beam on Monday
 - May help to resolve some of these issues
- Check old spectra
- Check event by event displays

Penguin

- Working
- Needs TDC timing
- Needs channel heatmap
- Needs ADC spectra

DAQ

- TI seems to be eating transceivers
- Fixed bug causing replay errors in SBS-offline
- Latency/windows have been tuned for combined daq

LED

- Crosstalk on pulse boxes
 - Cycle through PMTs to address since source of issue isn't clear
 - Just run at beginning of run to avoid issues
- For cycle solution
 - 2 octal logic modules or TI from Alex