

HCAL Biweekly Meeting Minutes 9.8.21

Nominal Agenda:

- HV calibration with cosmics and amplifier saturation study.
- EDTM from LED pulser plus BB coincidence.
 - DVCS pulser GUI now working.
- Linear FIFO tests.
- Remote thresholds for both HCal and BB.
- Cosmic paddle installation.
- Other topics people want to discuss.

Attendance:

1. Sebastian Seeds
2. Brian Quinn
3. Scott Barcus
4. Jim Napolitano
5. Provakar Datta

Actual:

Scott

- Gain matching switching from amplitude to integral of signals. Examined distribution of integrated ADC values cut with narrow window around value of ADC amplitude that saturates the amplifier.
 - Not clear that this pileup (gaussian at end of the distribution asserted to be saturation on the amp) isn't attributable to another cause.
 - Will calibrate to integrated ADC (pC) cut between 800 and 1200 max ADC (mV) evident on cosmic distributions
 - Finer tuning will require beam
- EDTM
 - Use LED pulser?
 - LED makes electronics noise – lose events
 - Could change from 20 Hz to 1 Hz
 - Not necessary for GMn – lower priority item
 - May need to decouple EDTM from coincidence trigger monitor as coincidence trigger monitor only needs to be performed once and EDTM needs a higher duty cycle than PMT gain monitoring with LEDs
 - Working on it
- Linear FIFOs
 - No coupling
- Monitors for sums (trigger) installed
- Remote thresholds are installed and working
- Cosmic paddle installation
 - Ongoing – should be installed this week