

HCAL Biweekly Meeting Minutes 1.27.21

Nominal Agenda:

- LED Analysis Results Vanessa Brio
- Discuss SBS Collaboration HCal presentations and review
 - Juan Carlos
 - Sebastian
 - Vanessa

Attendance:

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

Actual:

Vanessa

- NPE positively correlated to HV setting
 - Not yet linear, several outliers
 - Many saturated pulses included in histograms contaminating signals, do not plot points on PMTs where more than 10% pulse events saturate. Must look at RAU value (RAU > 4095 indicates saturation).

General

- Discussion on HCal presentation scope SBS collaboration meeting
 - Presentation on HCal readiness: Juan Carlos
 - Software and analysis
 - Calibrations
 - Gain curve with LED analysis confirmed by cosmic analysis
 - Sebastian and Vanessa
 - No formal discussion yet
- HCal acceptance and positioning of 48D48 magnet
 - Engineering suggests no closer than 7-8 m
 - Need TOSCA map to evaluate detailed effects of magnetic field on acceptance of detector.
- Maximum HV setting on PMTs
 - Max set to 2200 V
 - More detail needed – current value conservative, but pmt data sheet needs further investigation and direct limits by jlab/cmu pmt forthcoming.