

HCAL Biweekly Meeting Minutes 7.21.21

Nominal Agenda:

- Installation Update:
 - Cable paths to DAQ bunker
 - Cable trays on HCal platform
 - Cabling progress
- Checking the transit time differences between JLab and CMU pmts
 - Probably need to adjust cable lengths to summing amps to compensate
- Other topics

Attendance:

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

Actual:

Scott

- Cabling HCal
 - Plan to go under pivot in question – old plan (around outside of hall) now being reassessed.
 - Can we pass cables under right HRS? Would address stacking of BB cable trays on top of HCal cable trays
 - Jesse needs access to the truck ramp, this may remove the possibility
- Cabling map/plan for HCal discussed
 - 75 m HV take different path than signal cables
 - Longer path will take roughly 50 ft of slack to switch between kinematics
 - Shorter path will take roughly 18 ft of slack
 - Cart for slack will be stationed next to mezzanine to switch between kinematics
 - Can use two carts and keep slack between them
 - Bogdan has BigHand experience with this
 - Distance and angle for IHRS neutron calibration to be sent by Brian Quinn to Scott Barcus
- Need to check kinematics for:
 - GEn
 - GEp
 - SIDIS
- Cables on FE and DAQ connected
 - Corrected BNC-lemo issue where cables weren't matched with BB for swapped cables.
- Cables between PMTs and FE need connected

- Man lift needed
- Cables between FE and DAQ need connected
- LED power boxes coming from Brian Quinn
- GEn-RP Differences:
 - Iron analyzer
 - GEMs
 - Field Clamp
- Summing amplifier timing
 - JLab tubes and CMU tubes have different transit times
 - On order of ~20 ns
 - Due to the supercluster FIFO, will need to add lengths to cables to ensure signals from different PMTs arrive at summing modules at the same time.
 - Provided JLab and CMU tubes are common on dedicated summing module outputs, we can just use small delay cables between summing modules and FIFO