

## HCal Working Group Bi-Weekly Meeting Minutes

3.17.2021

### Agenda

- Brief Update
- Interactive documentation update
- Frame grounding issue
- LED cable length signal attenuation measurements
- Any other topics

### Attendance

1. Sebastian Seeds
2. Arun Tadepelli
3. Juan Carlos Cornejo
4. Scott Barcus
5. Brian Q

### Actual

- Can discriminator remote controller be shared between HCal and BB?
  - Seems like this should work
  - Will only work in Hall, not in test lab (BB in TEDF)
    - BB can borrow
    - Adapter fabrication needed (male 16 pin to male 8 BNC)
      - Parts needed, on order next week at latest (SB)
    - HCal needs one
    - BB needs 4
    - 8 channels possible
  - Can each discriminator output all channels at max voltage (10 V)?
    - Will check
  - Will need to check current limits on VXS crate for controller?
    - Will check
  - Output voltage to discriminator threshold measurement needed

### Updates

- Moving BB and HCal
  - No idea yet, but HCal is first
    - Crane assessment pending from Jesse

- We may still be able to move in April
- Overlapping cluster trigger set up
  - 40 channels combined
    - Sums of 64 through disc
  - Difference between two halves of HCal
    - DC difference between racks may explain
    - Additional work pending grounding issue
- Cable attenuation with LEDs
  - Sebastian working on this
- Interactive documentation progress
  - Front end: GUI complete, mapping complete
  - All racks: GUI complete, mapping in process
  - Memory issues
  - Row and col numbers added to HCal numbers

### **Attenuation and Building Ground**

- Both sides of HCal grounded on 3.15.21
- Presented ground cable issue
  - New noise on all channels
    - Likely not ground due to tests performed on 3.17.21
    - Possible pulser issue
    - Check ground to HCal with DMM
  - Will continue to debug through the week

**Forgot to tell Vanessa Brio about daylight savings time!**