



# Detector Support Group

## Weekly Report, 2019-07-03

### Summary

#### Hall A – Bigbite – ECAL

- Assembled 10 supermodules (in all 50)

#### Hall A – Bigbite – HCAL

- Relabeled, terminated BNC end, and tested, 48 BNC-LEMO cables.
- Relabeled and tested 128 LEMO-LEMO cables.

#### Hall B – RTPC

- Installed 500-sccm mass flow controller to allow 300-sccm HeCO<sub>2</sub> flow rate.

#### Hall B – Magnets

- Investigations underway of FastDAQ system data rate changes. Rates to be tested:
  - ★ 10 kHz total DAQ rate with 10 kHz FastDAQ rate and 5 Hz EPICS transmission rate.
  - ★ 10 kHz total DAQ rate with 10 kHz FastDAQ rate and 1 Hz EPICS transmission rate.
  - ★ 2 kHz total DAQ rate with 2 kHz FastDAQ rate and 1 Hz EPICS transmission rate.

#### Hall C – EPICS

- Developed Hall C ESR Cryogenics CSS-BOY screen.
- Updated HV screens to fix histogram monitors' overwrite bug and add requested features.

#### Hall C – HV EPICS Test Station

- Submitted PRs for CAEN HV Distribution chassis parts.
- Completed manufacturing drawing for the chassis fabrication.

#### Hall D – WEDM

- Converted CSS screens to WEDM for BCAL chillers, ComCal chiller, and Tagger NMR.

#### DSG R&D – cRIO Test Station

- Developed tests for NI 9219 differential nonlinearity, dynamic range, gain error, integral nonlinearity, and offset error for  $\pm 60$  V,  $\pm 15$  V, and  $\pm 4$  V ranges.