



# Detector Support Group

## Weekly Report, 2019-06-26

### Hall A – Bigbite - ECAL

- Assembled nine Supermodules (in all 40).

### Hall B – Magnets

- Researching possible data rate changes for FastDAQ system, especially EPICS data rate, 1 Hz instead of 5 Hz (slower update rate with larger array) to try and minimize missed/duplicate data.

### Hall B - RTPC

- Sent recently received differential pressure sensors back to manufacturer for evaluation. cRIO lost communication with MFC after EEL network outage; needed to be reinitialized (no restart needed).

### Hall B - RICH

- Developed, tested, and debugged multi-sensor user interface for Sensirion SHT85.

### Hall C - HV EPICS Test Station

- Started test on A7030TN module.
  - ★ Modified Novice CSS BOY screen to monitor main parameters for each channel.
  - ★ Wrote two JAVA scripts to enable option to turn ON/OFF all 36 channels at once.

### Hall C EPICS

- Developed three CSS BOY screens to monitor forces for SHMS Q1, Q2 and Q3.
  - ★ Added missed PVs to spreadsheet.
- Developed ten CSS BOY screens to display plots of forces vs time for SHMS quadrupoles 1, 2 and 3.

### DSG R&D – cRIO Test Station

- Set up Krohn-Hite power supply and NI 9219 to be used for voltage tests.
- Wrote NI 9219 voltage test for samples, mean, accuracy, and standard deviation.