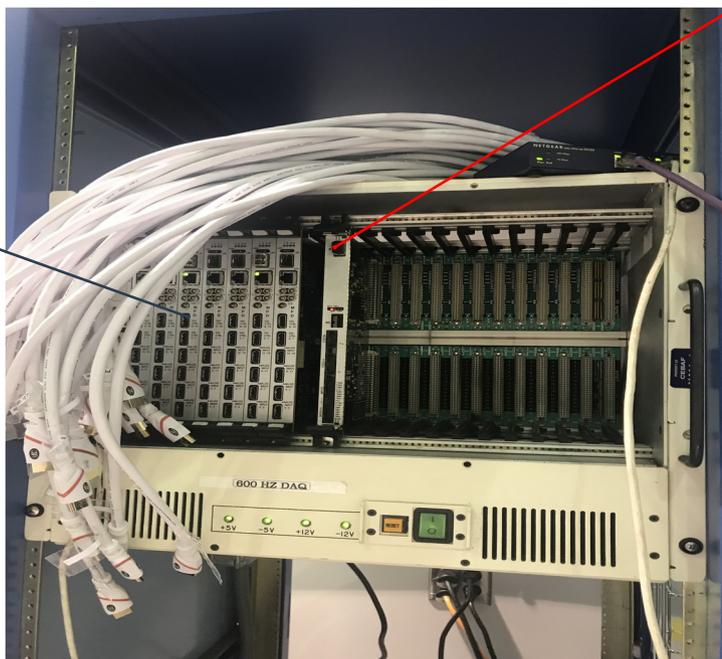# DAQ setup

→ Installed VME controller (its hostname is hallavme14pc)

→ Installed 7 MPD's and the address switch set to the slot number

→ TI address is set for slot 10

Trigger interface

MPDs

VME crate

→ Standard VME crate which reads whatever address we set in MPD

→ Each MPD module has 15 different address (1 to F in hex)

→ We can add addresses up to 32 using a jumper (16 → 31)

→ Two layers will be connected to a single crate

DAQ setup

→ Programmed firmware of all MPDs before being attached to the
  crate

→ Copied programs and libraries we need to run CODA 3.10

  This is a version of CODA that is in current development as opposed
   to the older version currently used in Hall A (CODA 2.6.2)

  Detail information are posted in wiki:
       SBS GEM EEL Cleanroom setup

 → Checked the communication between APV and MPD

→ Configured CODA to read TI and tested

DAQ setup

New Run Control GUI

DAQ setup

→ Added two configuration

Layer2_Tionly → Configure TI
Layer2 → Configure MPDs

DAQ setup

→ Found bug in TI firmware 3v9.2 (relates to using the front panel inputs for triggers). Downgraded both TI firmware and library to 3v8.1.

→ Using gate generator as a slow pulser trigger (~few Hz) for debugging.

I2C (MPD -> APVs config)
→ Debugging I2C. Will need to be less strict with i2c to get other MPDs to work.

→ Library development ongoing.

→ Splitting of configuration files from a couple files: config_apv.txt and config_apv_default.txt

→ config_apv.txt now reads multiple textiles prepared for the individual MPD slots

DAQ setup

Next steps:

→ Full Readout of layer2 without SSP

→ Debug decoding of CODA 3.10 data with Analyzer.

→ Add more layers to readout (more crates, more ROCs, use SSP).

→ Consider using VME Controller in MPD crates to configure the MPDs and then use SSP to read them out.