

DSG-GEM Monthly Meeting

Date: July 1, 2021

Time: 15:00 - 16:00

Attendees: Peter Bonneau, Aaron Brown, Brian Eng, George Jacobs, and Marc McMullen

1. BigBite installation in Hall A

Marc McMullen

1. GEM has been mounted to the spectrometer arm in the hall
 - The BigBite gas distribution panel and gas lines have not been installed in the operational location
2. The Raspberry Pi has been reassigned to Hall A subnet 188
 - Remote network connectivity to the Raspberry Pi has been verified
 - The database file needs to be added to an IOC
 - RJ11 extension cables are needed to connect the Raspberry Pi, which will be located in the labyrinth, to the gas flow sensor chassis and pressure sensors in the gas distribution rack in the hall

2. Super BigBite gas distribution in EEL

Mindy Leffel and Marc McMullen

1. All six gas flow sensor chassis have been assembled
 - All six multiplexer boards responded to the Linux I²C detect utility
 - All 42 gas flow sensors responded during a functionality test
 - The BigBite gas pressure and flow readout software is being expanded for the 42-channel system
 - Labels will be ordered for the 1/4" gas lines

3. Overpressure protection test setup

Brian Eng, Georg Jacobs, and Marc McMullen

1. LTC2662 digital-to-analog converter (DAC) is being used to test the readback of the Magnahelic pressure transducer
 - Python drivers are being developed for the DAC, which will convert the pressure signal from the pressure transducer to an I²C signal to import into the GEM gas readback system for remote monitoring