

## Summary

### Hall A – ECal

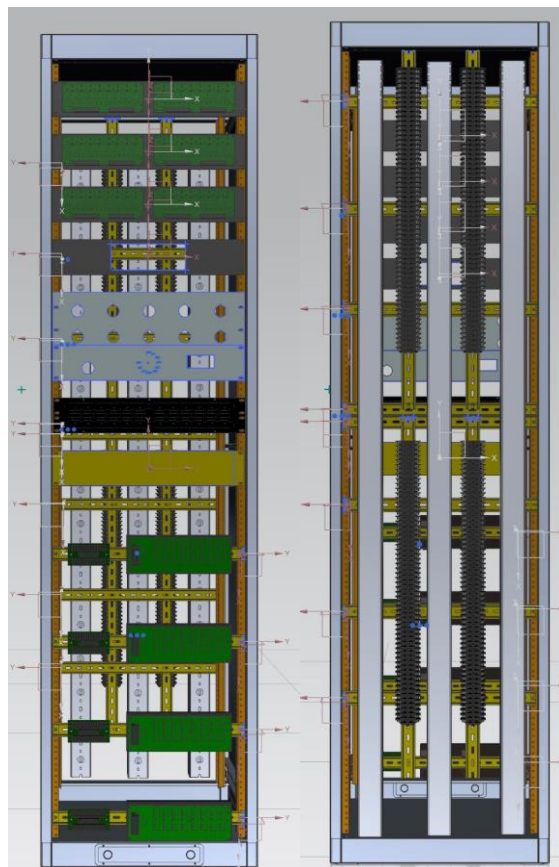
*George Jacobs, Mindy Leffel, Marc McMullen*

- Completed two ECAL supermodules (#96 and #66)
  - ★ Supermodule #96 reassembled to improve foil wrap on light guide

### Hall A – SoLID

*Mary Ann Antonioli, Pablo Campero, Brian Eng, Mindy Leffel, and Marc McMullen*

- Creating pdf files of AutoCAD drawings and posting to the DSG technical documentation website
- Reviewed and revised Phoebus screens
- Wiring instrumentation racks:
  - ★ Rack A front status: 85% completed
  - ★ Rack A rear status: 52% completed
  - ★ Rack B front status: 90% completed
  - ★ Rack B rear status: 90 % completed
- Fabricated 10 ferrule-to-ferrule cables
- Continued, using NX12, work on model of Instrumentation Rack #1



SoLID magnet controls instrumentation rack #1



## Detector Support Group

*We choose to do these things "not because they are easy, but because they are hard".*

**Weekly Report, 2021-12-22**

### **Hall B – RICH-II**

*Mary Ann Antonioli, Peter Bonneau, Pablo Campero, Brian Eng, George Jacobs, Tyler Lemon, and Marc McMullen*

- Calculating forces on components during detector rotation for assembly with stiffening tool taken into consideration
  - ★ Stiffening tool adds rigidity to detector, preventing any unwanted flex in detector shell,
  - ★ Stiffening tool also adds additional weight to detector and changes geometry of rigging points

### **Hall C – NPS**

*Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Mindy Leffel, Tyler Lemon, and Marc McMullen*

- Worked on ESR film pre-shaping: 540 of 600 complete (90%)

### **EIC**

*Pablo Campero, Brian Eng*

- Continuing simulation of flow for the thermal system (Be pipe and Si Sensor L1) using Ansys Fluid Flow CFX
  - ★ Calculated mass flow rate inside beryllium pipe for a given velocity of N<sub>2</sub>
  - ★ Continued calculation of heat resistance between beryllium pipe silicon sensor L1

***Season's Greetings  
and  
Happy New Year!***