Hall A – ECAL

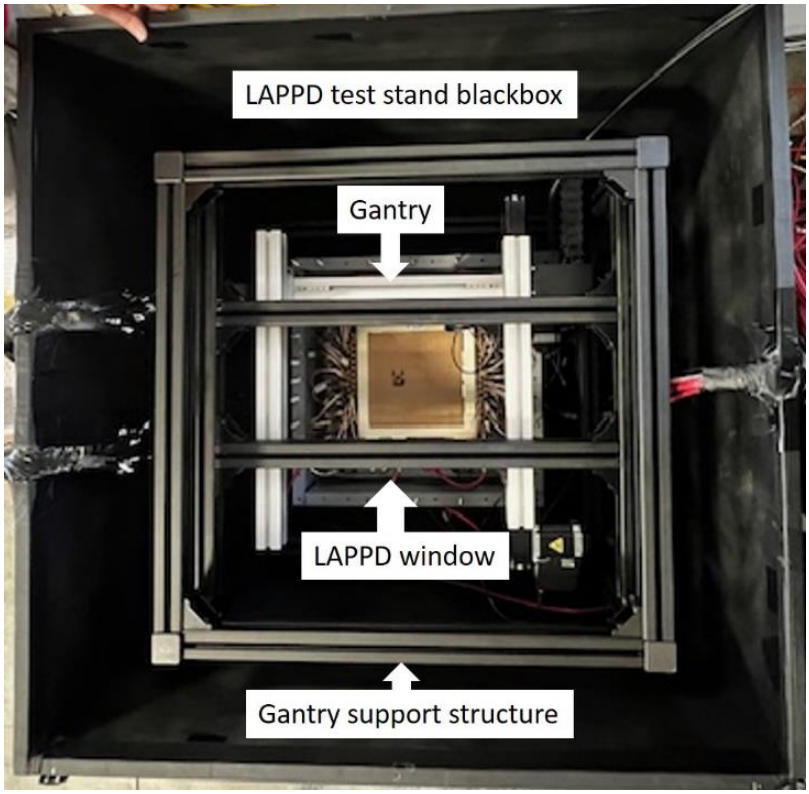
Marc McMullen

- Attended detector fire safety review and walkthrough
    - ✶ Updated the Jlab fire safety group on the controls and safety system design

Hall A – LAPPD

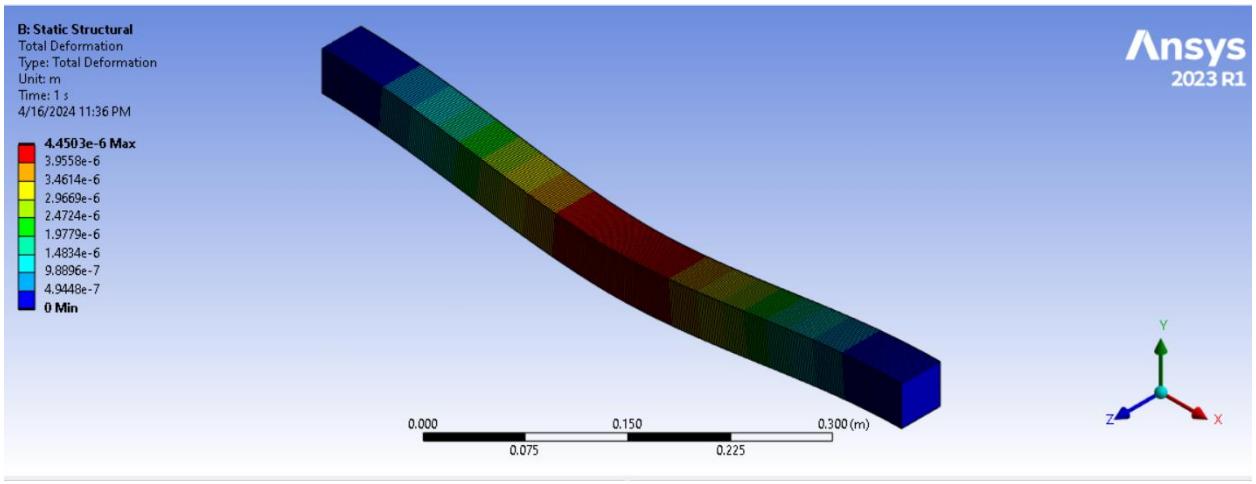
Pablo Campero, Brian Eng, and Marc McMullen

- Assembled gantry using 600-mm aluminum extrudes
- Dry fit gantry support structure in darkbox to verify LED holder box positioning over LAPPD window and to take dimensional measurements
    - ✶ Found that LAPPD frame is lower by 0.4 cm on one side



Dry fitting of gantry support structure into the LAPPD darkbox

- Calculated length for the optical fiber to be ~2.95 inches
- Made calculations using Ansys Static Structural of the T-slot profile used for the gantry's support
    - ✶ Calculated total weight of the gantry system as ~9 Kg
    - ✶ Applied a force of 160 N (total weight of 16 Kg) at the center (300 mm) of the T-slot profile (with a cross section of 40 x 40 mm)
    - ✶ Maximum deformation is less than 4.5 µm
    - ✶ Moment reaction is 12 Nm



Simulated total deformation of the T-slot profile

Hall C – NPS

Aaron Brown and Mary Ann Antonioli

- Redoing plots of front and back crystal sensor temperatures for various conditions
  - ✶ Increasing ambient temperature
  - ✶ Decreasing ambient temperature
  - ✶ Steady ambient temperature
  - ✶ Front and back crystal sensor temperatures with beam current
  - ✶ Average front and back crystal temperatures
- Working on version 3 of control and monitoring LabVIEW program
  - ✶ Resolved trip delay calculation subVI issue of code not executing and issue of status trip time and latch trip time arrays not updating properly
  - ✶ Working on state machine for trip delay calculation
  - ✶ Began revising array builds of EPICS variables to LabVIEW variable and breakouts of LabVIEW variable to EPICS variables, reflecting change to fewer arrays in overall code

Hall D – FCAL2

George Jacobs

- Tested 69 PMT bases; 827 good bases tested
  - ✶ Three had shorted low voltage caps (output amplitude lower than expected) and one had no signal

EIC – DIRC

Tyler Lemon

- Assisted with loading of barboxes into shipping crates at SLAC for transport to JLab

Barbox being loaded into a shipping crate at SLAC using their chain hoist and rail system

Barbox placed inside shipping crate at SLAC before closing interior basket of crate

- Met with SLAC collaborators to discuss barbox disassembly process and their recommendations on how to disassemble
- Assisted with unloading of shipping crates in EEL 108

One barbox shipping crate being moved into EEL 108 after arrival from SLAC

- Reviewed accelerometer data from barbox shipping from SLAC to JLab
    - ✶ Barboxes did not experience ~ ±1 g during trip

DSG R&D

Peter Bonneau and Mindy Leffel

- Researching and specifying hardware for the Phoebus test station
- Fabricating cRIO chassis
    - ✶ Attached 5-V power supply and terminal blocks
    - ✶ Researched and ordered components
    - ✶ Started fabrication of 210 ferrule-to-ferrule test cables—cut 105, stripped and crimped 60

Phoebus cRIO test chassis