

# FCAL II Update

JUNE 29, 2023

JLAB SUMMER INTERNS REPORT

# Overview as 06/29/23

- ▶ Five separate teams
  - ▶ Hall D Cable Labeling
  - ▶ Lead Glass Crystal Module Refurbishment
  - ▶ PMT Testing
  - ▶ LMS Fibers
  - ▶ Module Assembly/Inventory

# Hall D Team

- ▶ **Cable Team** (Aaron, Jaime, Payton, Connor, Bradley)
  - ▶ 16 Bundles of cables relabeled
  - ▶ Approx. 110 left

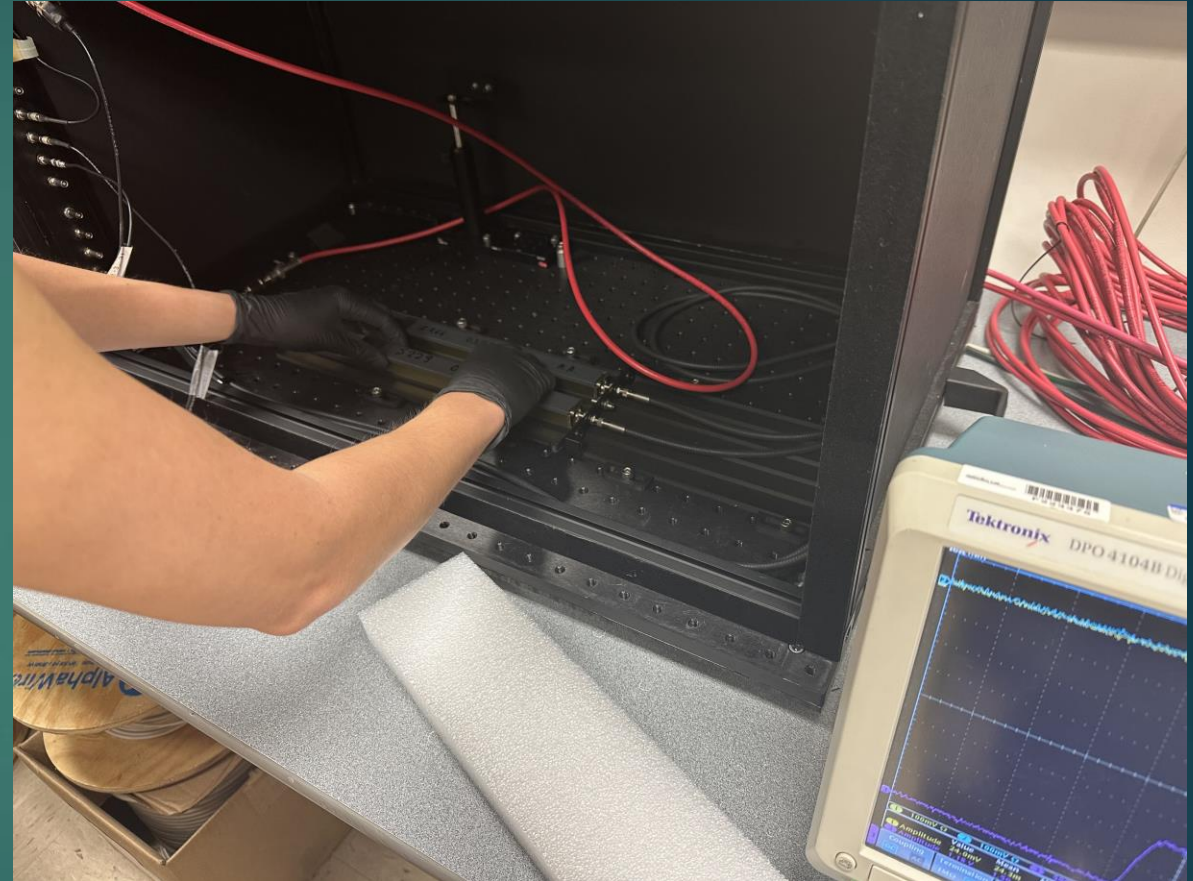


- ▶ **Lead Glass Module Team** (Bradley, Denton)
  - ▶ Switched out dividers on faulty PMT modules to operational Modules

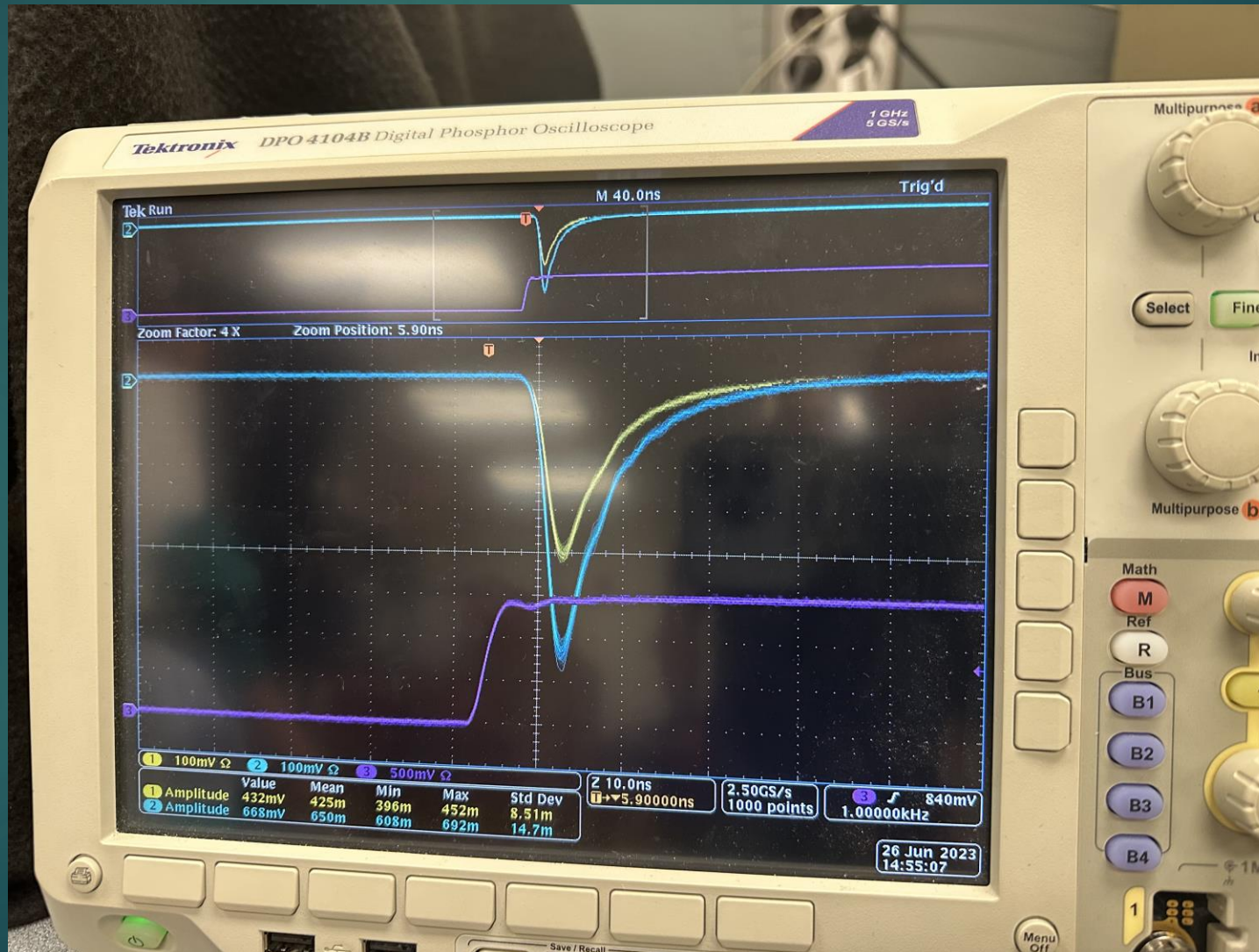


# PMT Testing (Madelyn and Madison)

- ▶ Ensure PMTs are Operational
- ▶ Pulse Generator Sends Voltage through PMT
- ▶ Record Mean Amplitude
- ▶ Ensures Consistency of Data
- ▶ Edit and Update of Wiki Page



# PMT Testing II



# Module Assembly (Brandyn, Denton, Philip, and Quinn)

- ▶ Six wrapped crystals left to assemble
- ▶ Waiting on final order of Siccas



# LMS Fibers (Denton and Manev)

- ▶ LMS (Light monitoring System)
- ▶ Cut fibers to varying lengths
- ▶ Glue “donuts” to fibers
- ▶ Shall be glued to face of modules



# Inventory (Brandyn and Philip)

- ▶ BLUF
  - ▶ Total Assembled Modules: **1,583**
  - ▶ Total Crytur Modules: 920
  - ▶ Total Sicca Module: 657
  - ▶ Total Crystals: 1615
- ▶ Modules Stored in Rooms 108 and 126
- ▶ Separated by Crytur and Sicca Crystals



# Inventory II

Shelf N3	Both	Shelf 4	Crytur	Shelf 5	Crytur	Room 108 Shelves					
3-A (Sicca)	10	4-A	31	5-A	33	Right Shelf	Sicca	Left Shelf	Sicca	Additonal	6
3-B	0	4-B	34	5-B	34	R-A	0	L-A	57	"Iffy" Modules	26
3-C (Crytur)	31	4-C	32	5-C	37	R-B	51	L-B	48	Unassembled Crystals	6
3-D	0	4-D	32	5-D	40	R-C	51	L-C	49		
3-E	0	4-E	32	5-E	39	R-D	54	L-D	16		
Shelf N3 Total	41	Shelf 4 Total	161	Shelf 5 Total	183	R-E	52	L-E	0		
Shelf 6	Crytur	Shelf 7	Crytur	Shelf 8	Sicca	Total	208	Total	170		
6-A	29	7-A	34	8-A	37						
6-B	32	7-B	30	8-B	32						
6-C	34	7-C	35	8-C	32						
6-D	33	7-D	32	8-D	34						
6-E	34	7-E	30	8-E	16						
Shelf 6 Total	162	Shelf 7 Total	161	Shelf 8 Total	151						
Cabinet S7	Crytur	Cabinet S8	Crytur	Cabinet S9	Sicca	<b>Grand Total</b>		<b>1615</b>			
S7-A	21	S8-A	23	S9-A	26	Total Modules		1583			
S7-B	25	S8-B	22	S9-B	27	Crytur Total		920			
S7-C	27	S8-C	22	S9-C	29	Sicca Total		657			
S7-D	30	S8-D	25	S9-D	27						
S7-E	27	S8-E	0	S9-E	9						
S7 Total	130	S8 Total	92	S9 Total	118						