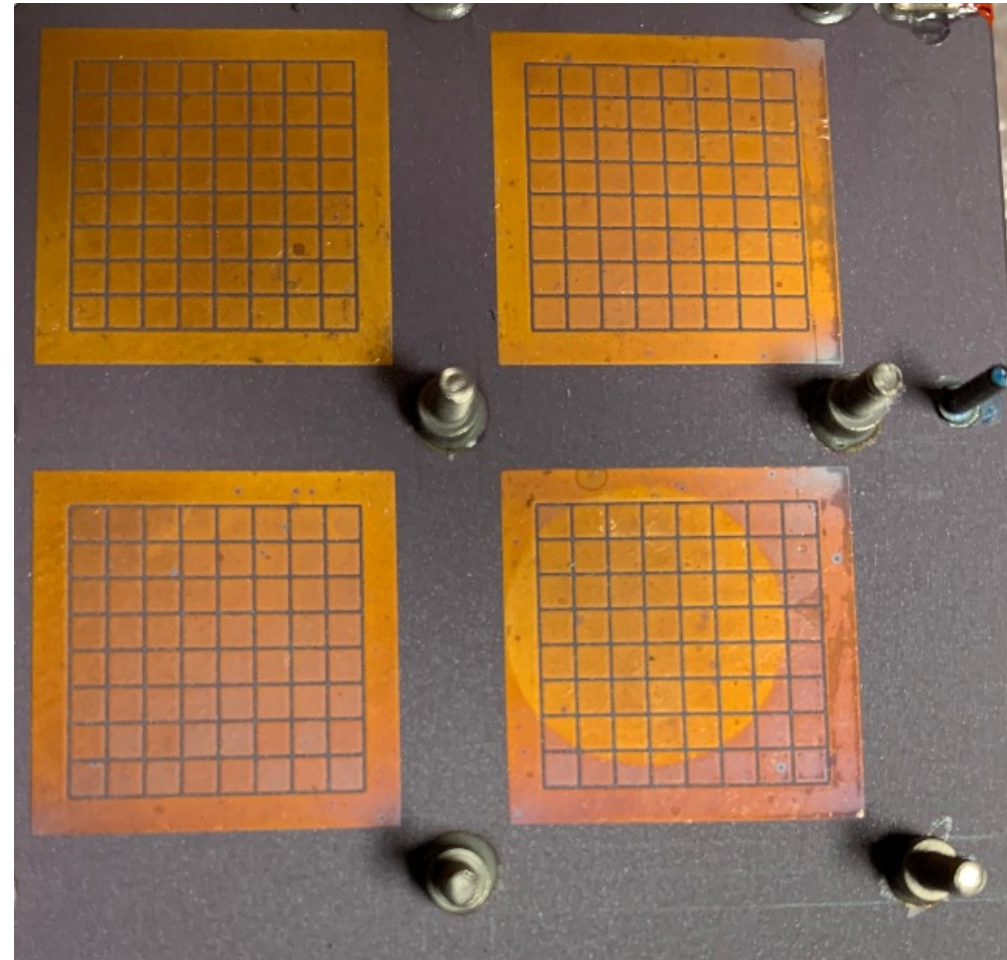
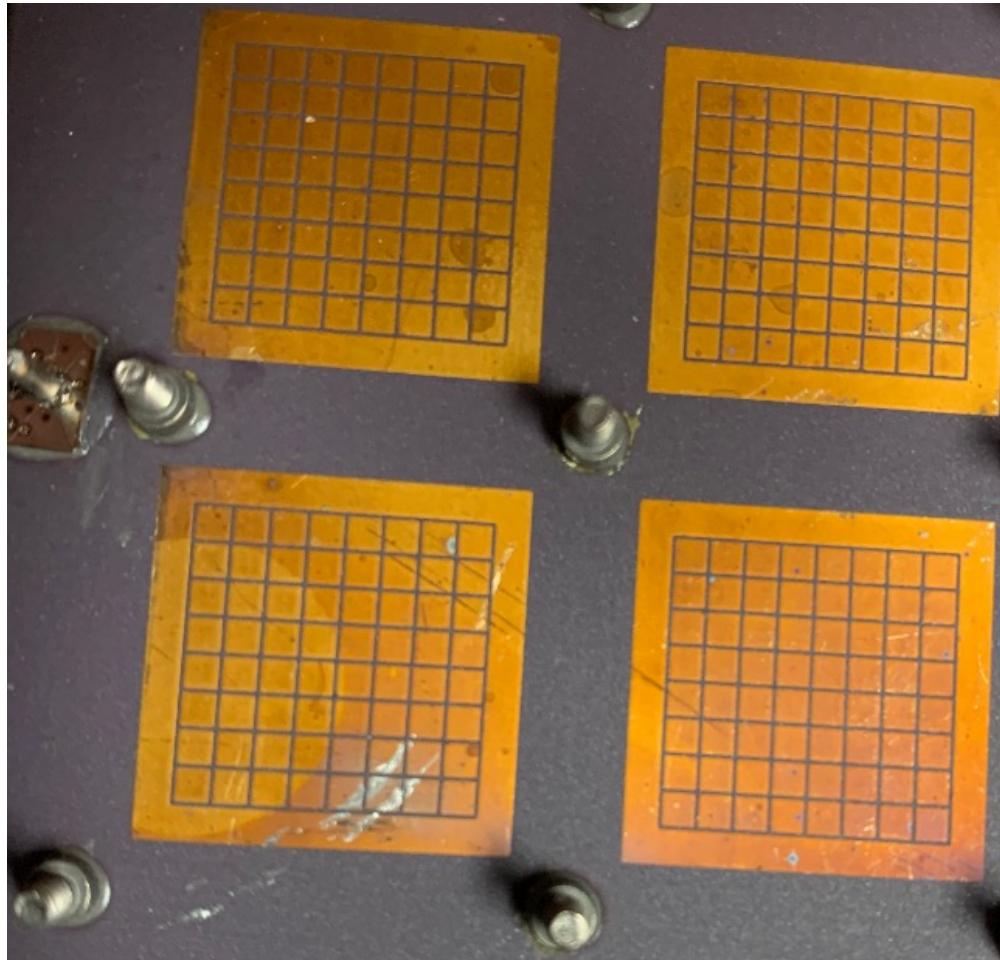


Zoom in on anode array



Basic goal at JLAB → Show that the device is “alive” so that it can “approved” and payment sent to Incom

Collect data on all 1024 channels (if possible)

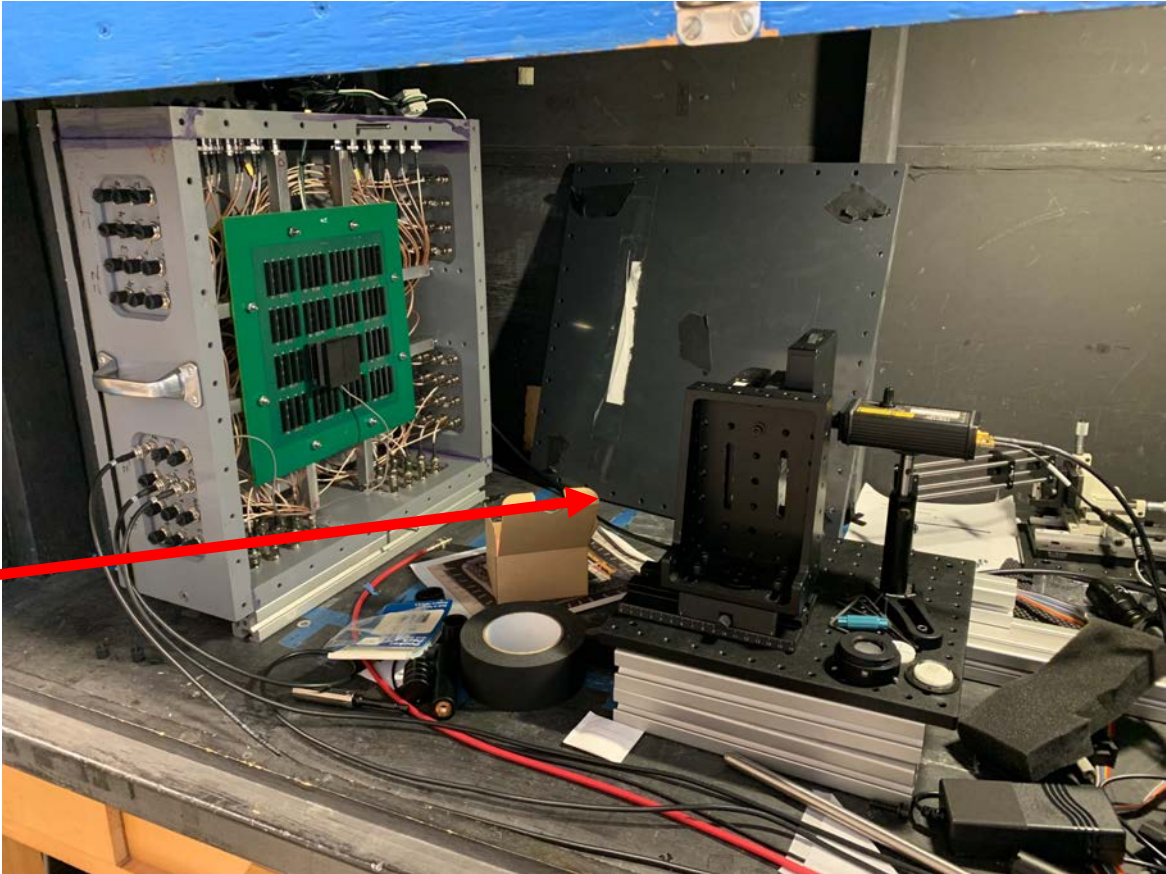
Then ship to BNL for full test program

....and JLAB pays Incom for the sample → next sample please

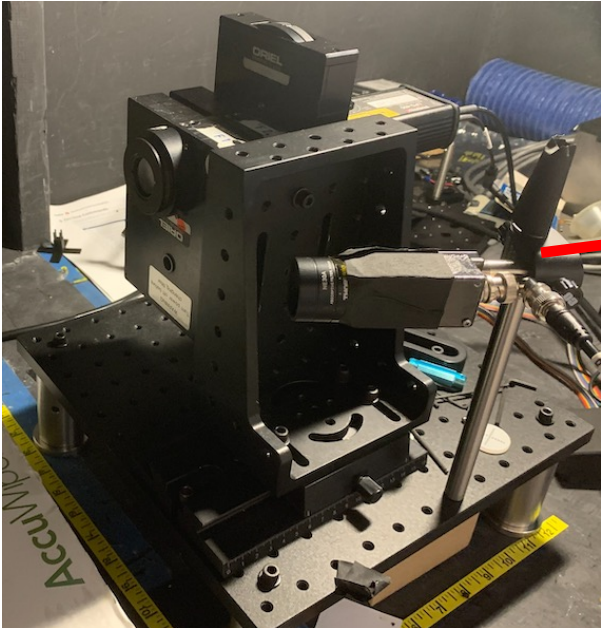
Eventually JLAB will build full test station (Arshak Asaturyan)

Dark Box – ARC L215

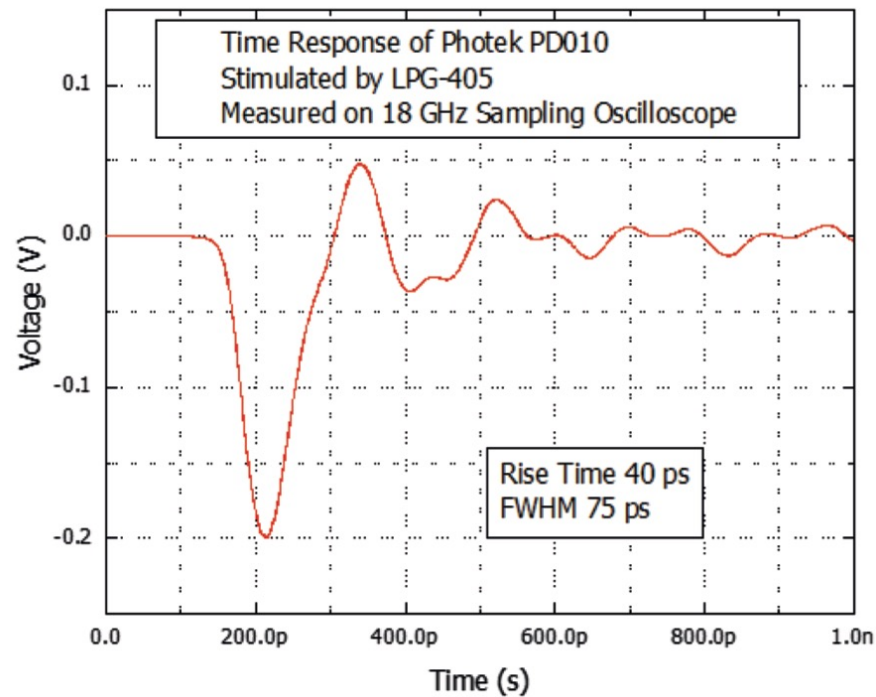
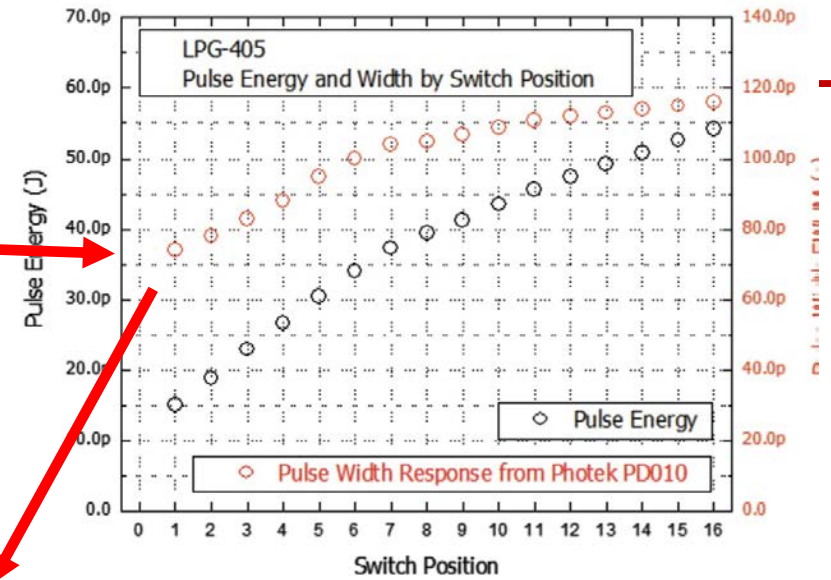
Present setup



Light source
Pulsed blue laser
+ filters
+ diffuser



Photek LPG-405 pulsed laser
405 nm - pulse width = 75 ps
Freq range = single shot to 300 kHz
Class 1(!!!) – inherently eye safe



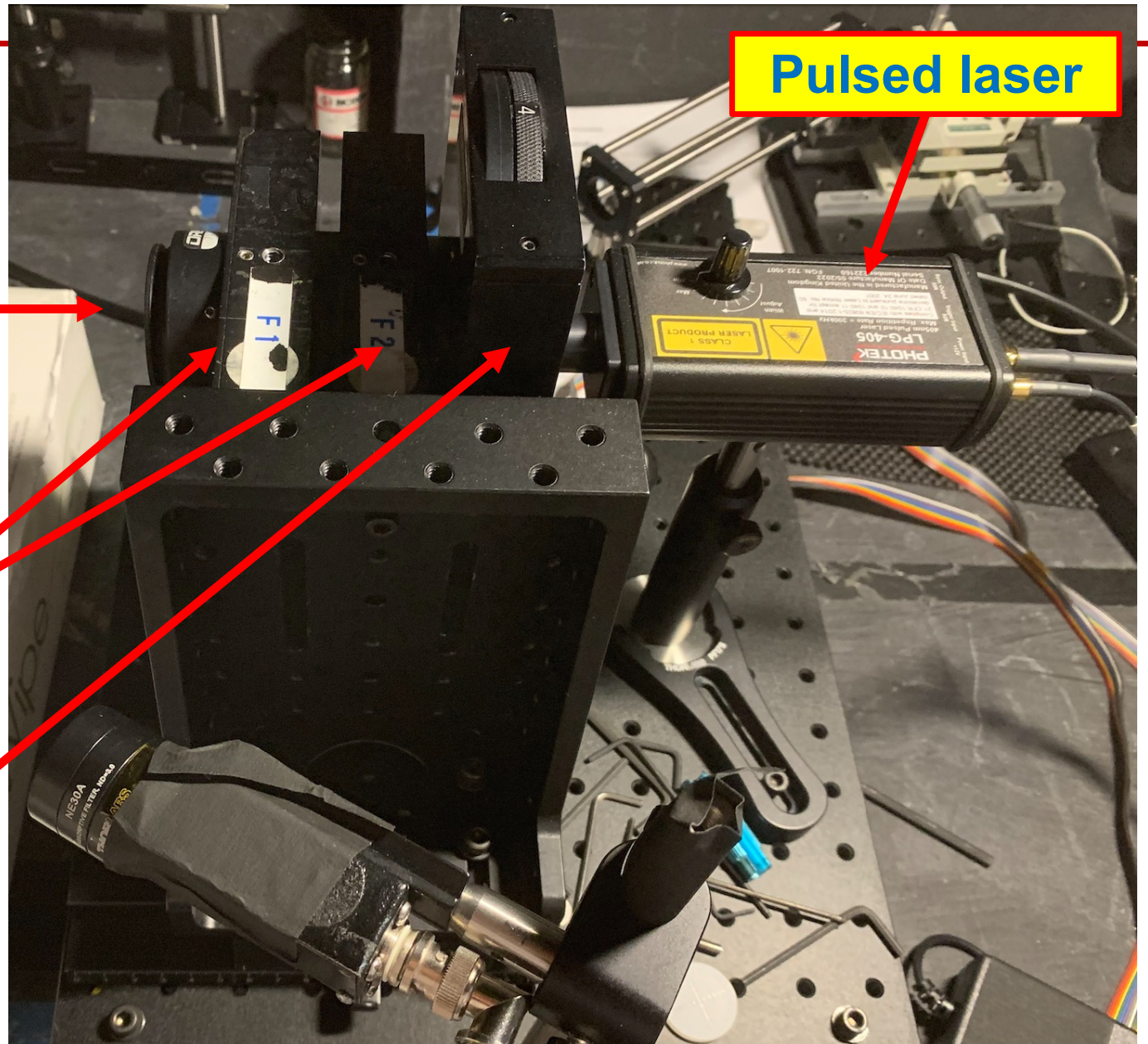
Wide angle diffuser



Remote control filter wheels (2)

0, 100%, 10%, 1%, 0.1%
100%, 80%, 60%, 40%, 20%

Manual filter wheel - 100%, 10%, 1%



DAQ components - today

32-channel V792 QDC



16-channel DT5742B Digitizer



And Alexander has shipped (arrived today) a bunch of essential components that we will need.

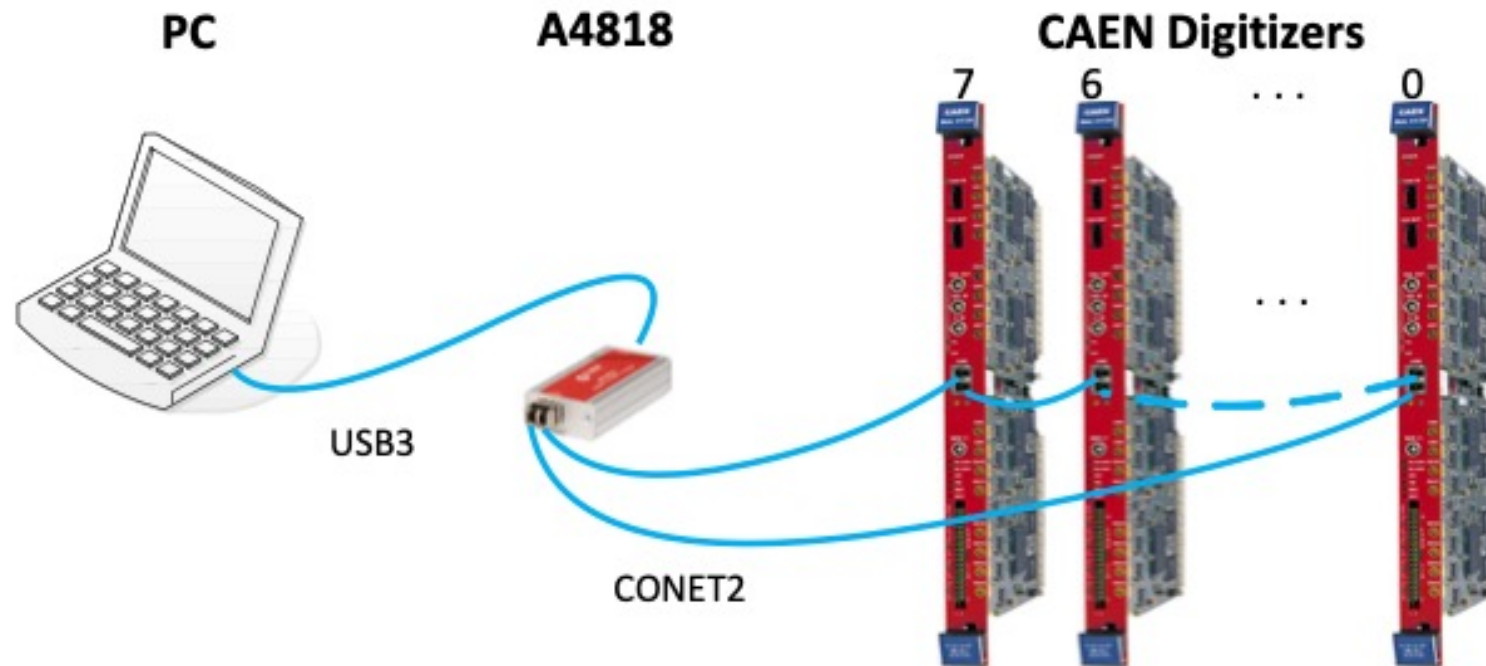
DAQ components - coming

In the requisition pipeline:

V1742 VME 32-channel digitizer

A4818 – USB-3 to CONET adapter

In stock – so maybe 2 weeks?



Test equipment

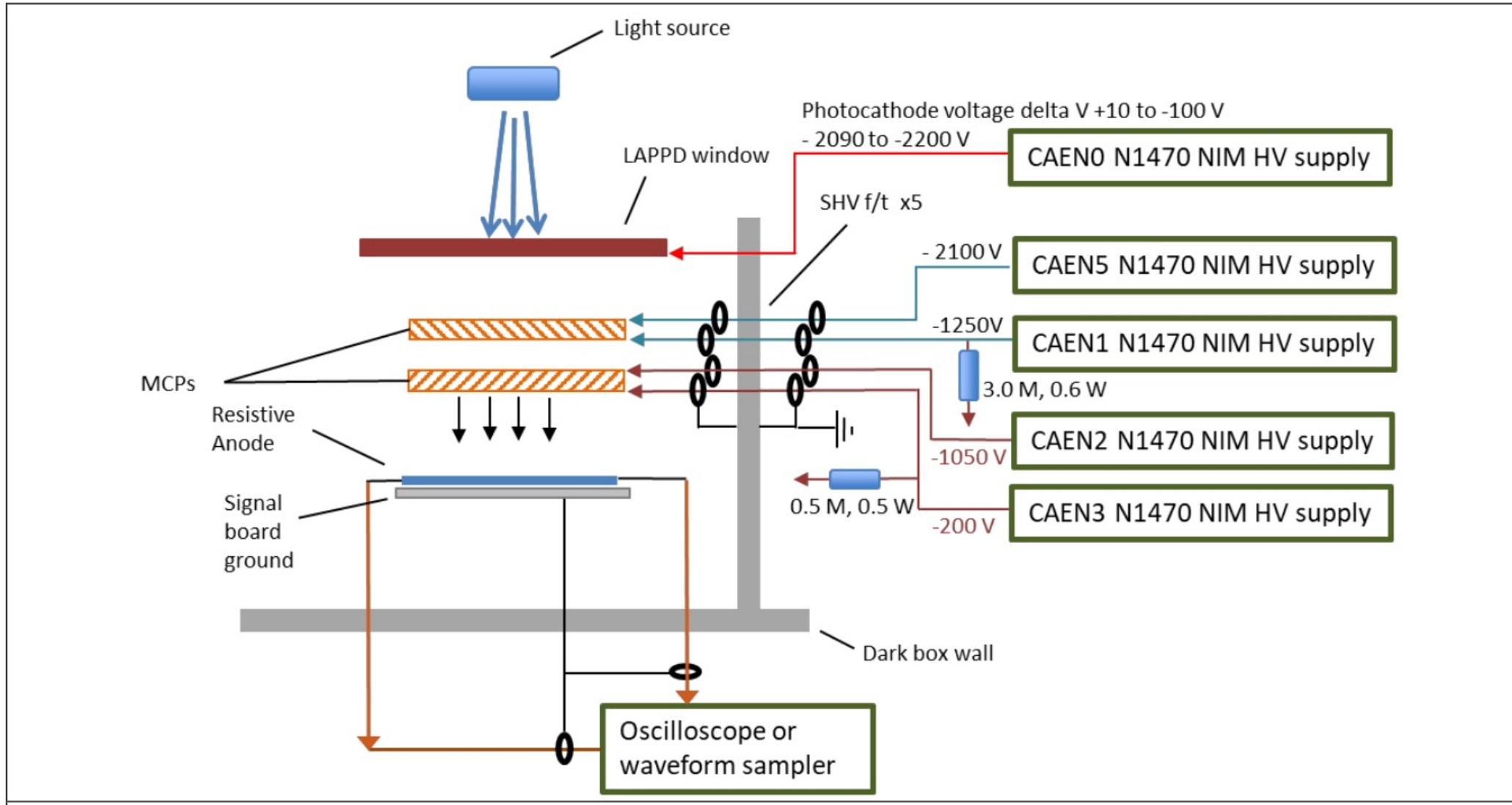


16GHz – 40 GS/s 4-channel oscilloscope
+ lots of probes

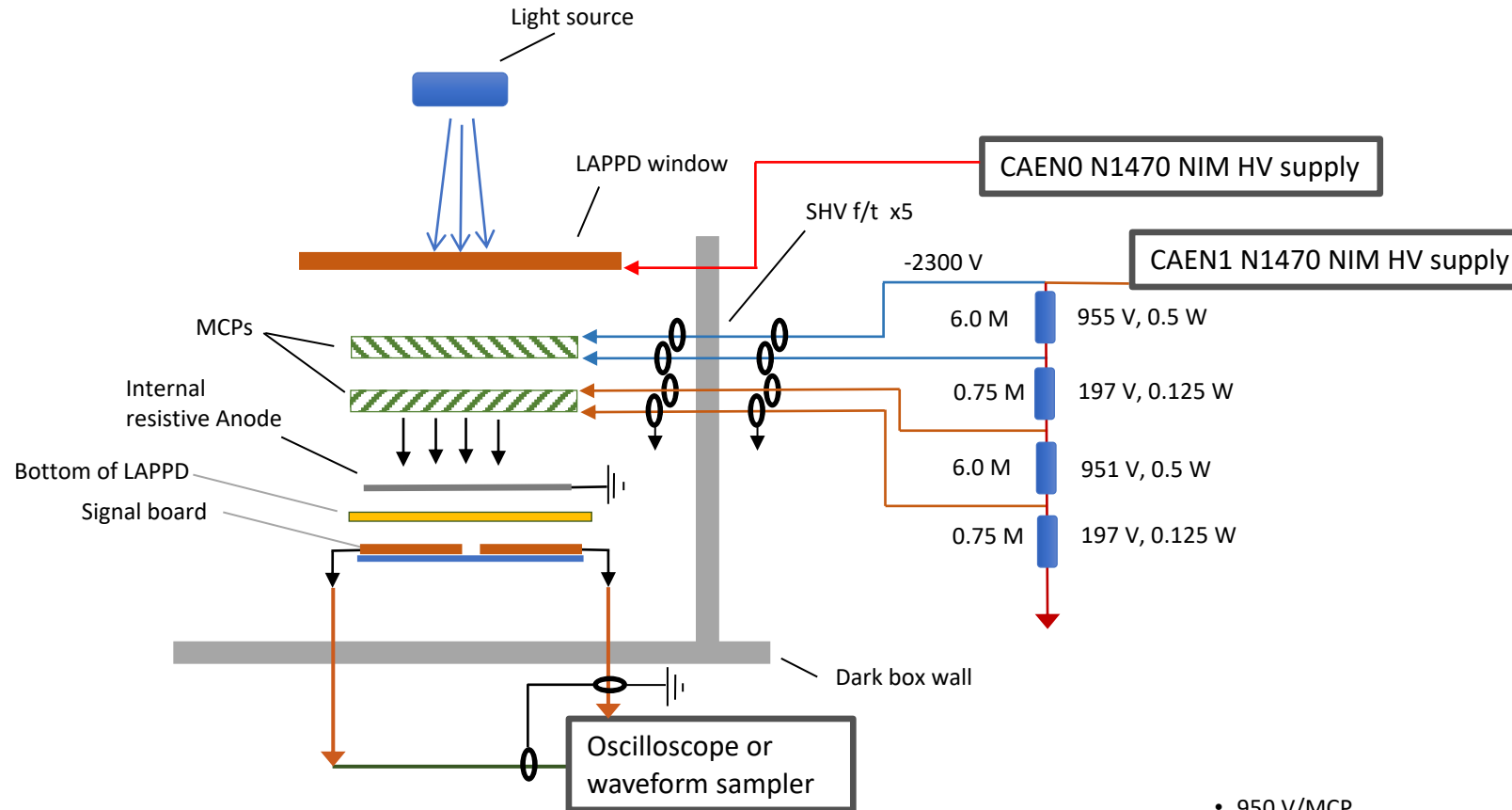
And.....we will have Alexander's expertise right here when he visits JLAB in a few weeks!

Extra slides

HV supply scheme for HRPPD (Incom)



We will go for the voltage divider approach for the first test



- 950 V/MCP
- ~200 V between MCPs
- 200 V between MCP and anode
- 9.2 M entry MCP R
- 9.1 M exit MCP R
- Multicomp or Vishay high voltage resistors are recommended.

LAPPD 144