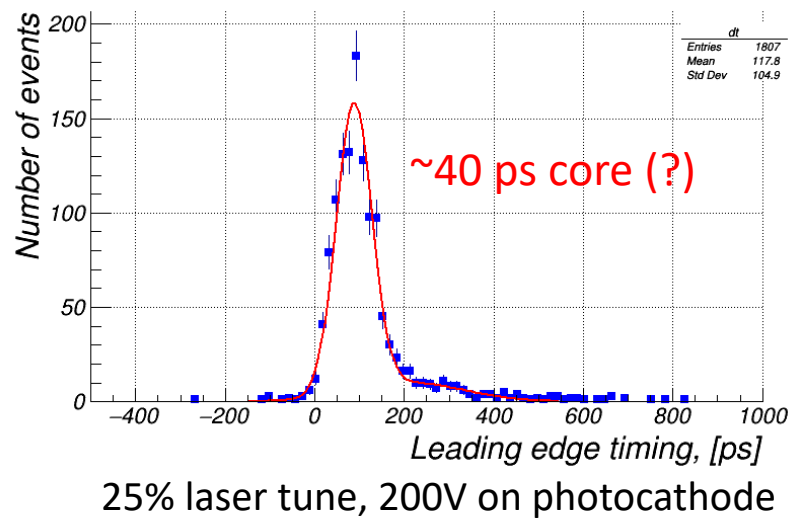
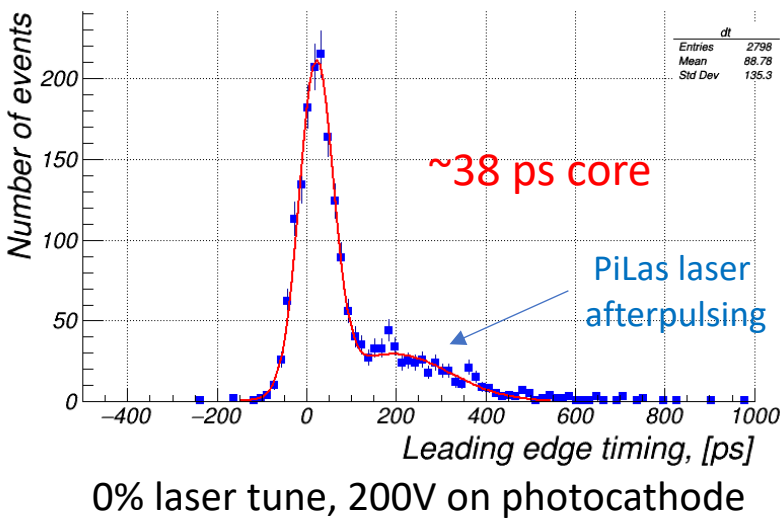
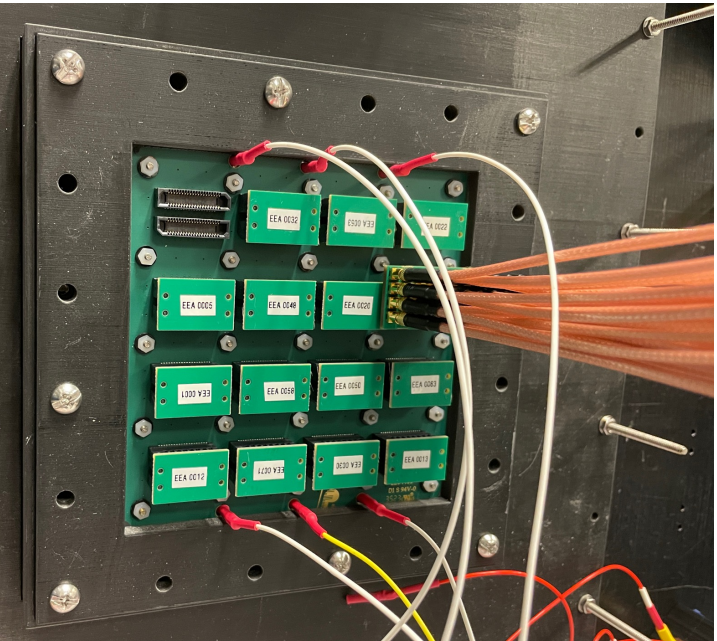
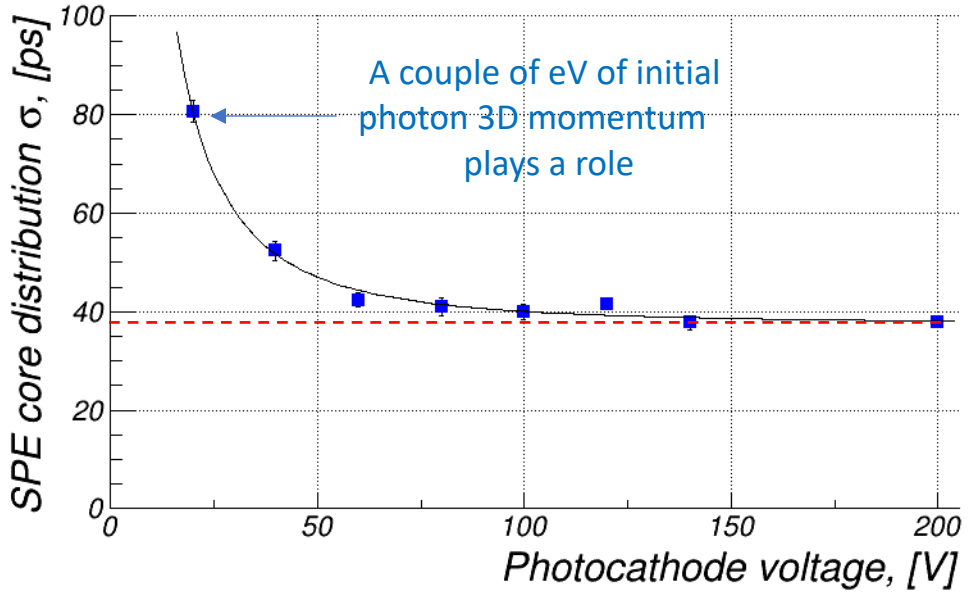


# HRPPD #15: timing performance with a 420nm laser

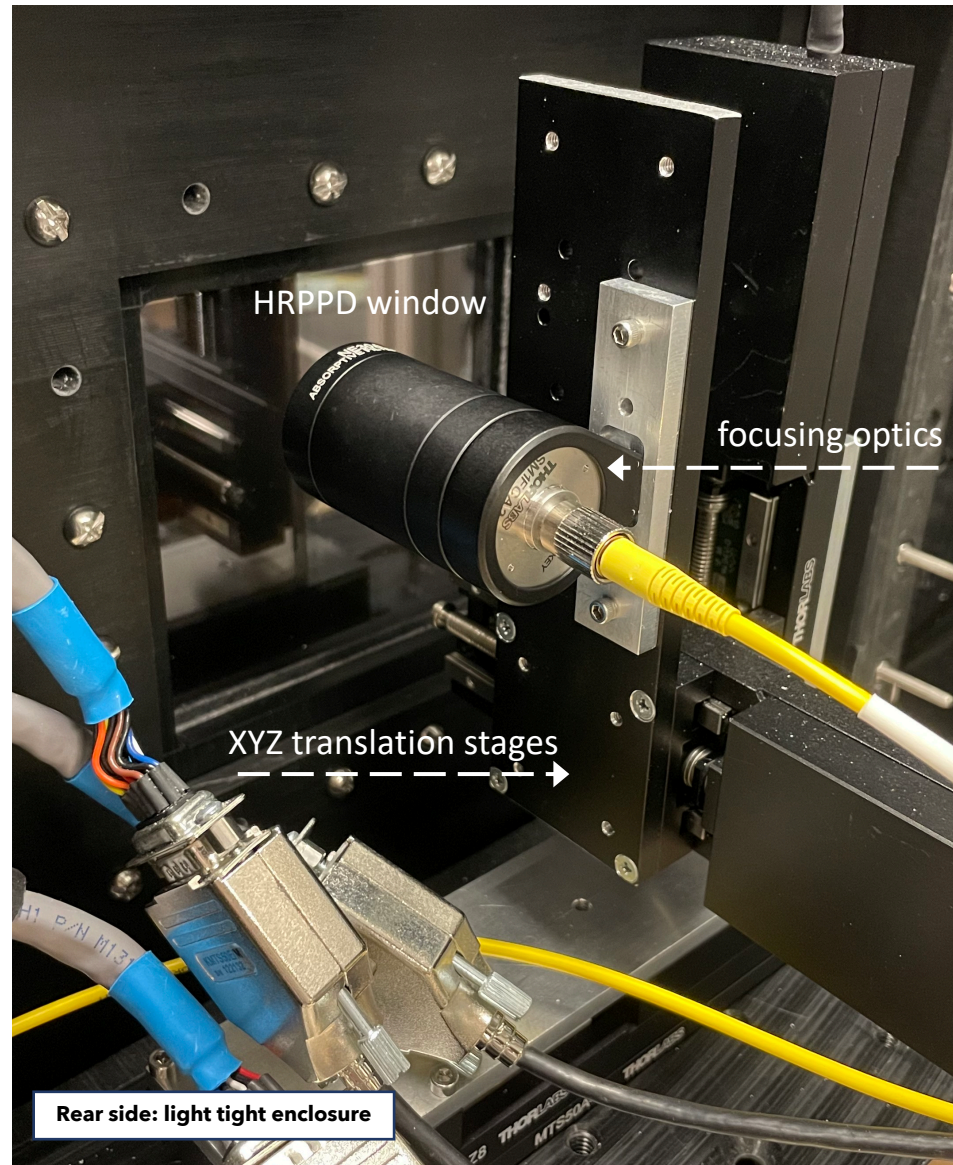


- Laser focused on a single pad center
- Intensity tuned down to >99% empty events
- $\Delta t$  data taken with a V1742 DRS4 module
  - Channel #0 – HRPPD pulse
  - Channel #1 – laser synchro pulse
- *Neither laser pulse width nor other instrumental effects unfolded*

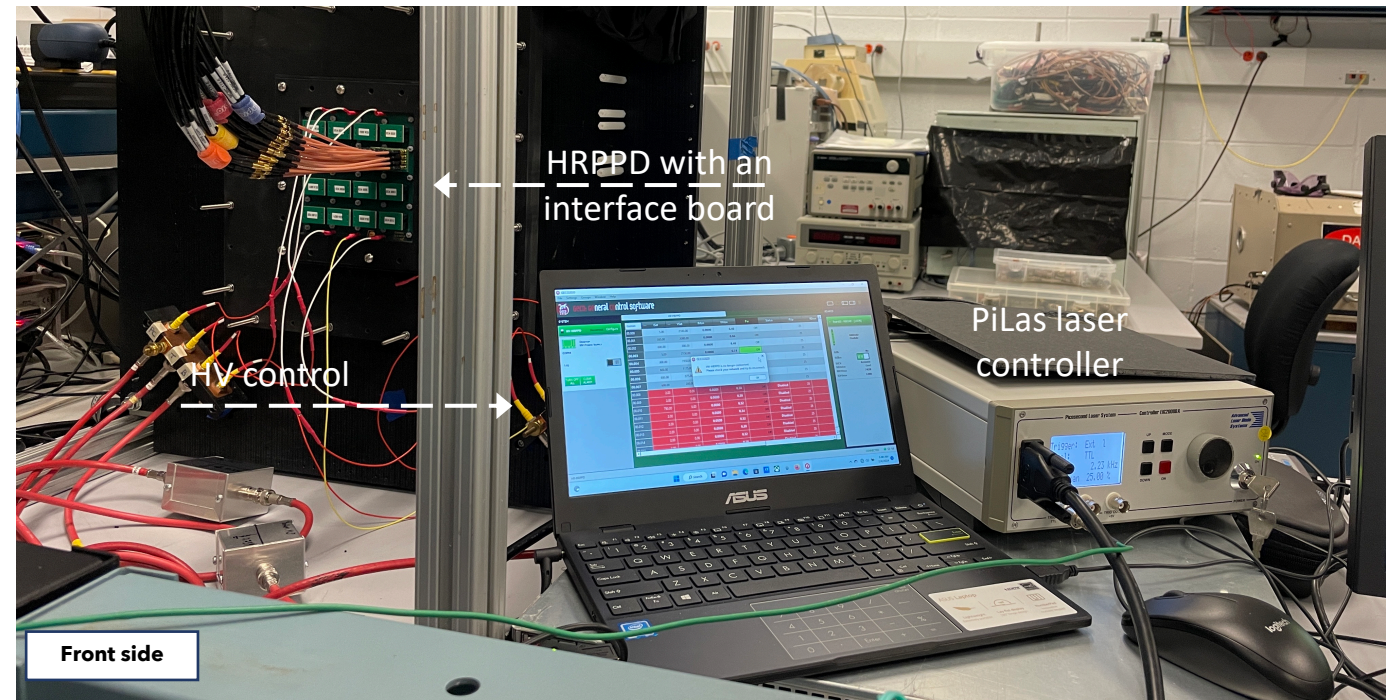




# Presently available HRPPD test stand at BNL



- Picosecond PiLas laser
- Compact light-tight enclosure
- 480 DRS4 channels (V1742 digitizers)
- Interface board with a compression interposer interface
  - MMCX and high-density Samtec connector interface to DRS4





# HRPPD QA station upgrade at BNL

- Consolidate all HRPPD equipment in a new lab space
  - A new dark box with 6" Velmex translation stages & a 256ch MCX interface
  - PiLas (picosecond) and Elmo (femtosecond) lasers
  - Oriel 77250 monochromator
  - DAQ PC, NIM & VME crates, 8x V1742s
- Re-use the original setup on a new HGCROC backplane test bench

