

# Plan for PMT Test

21 November 2014

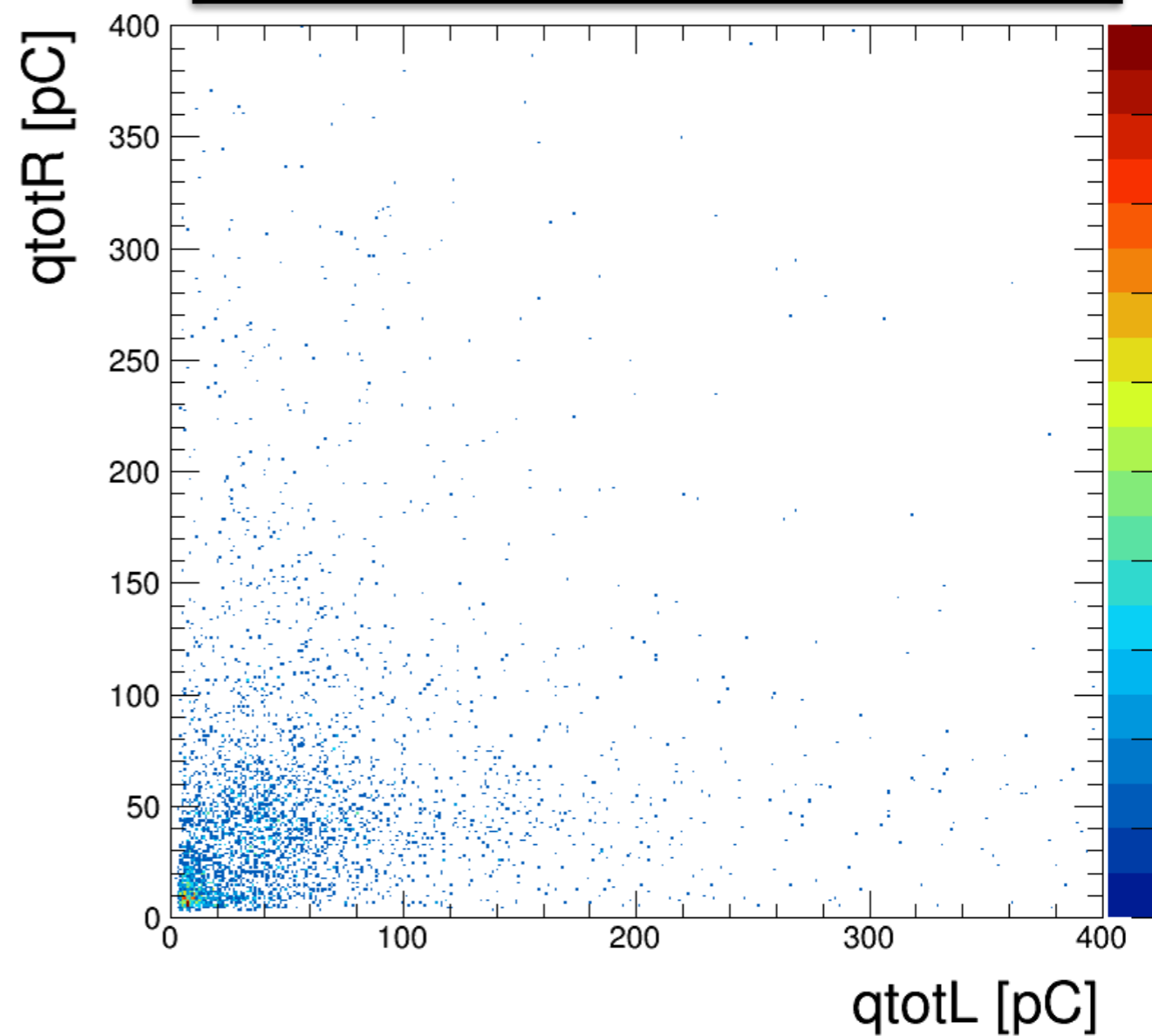
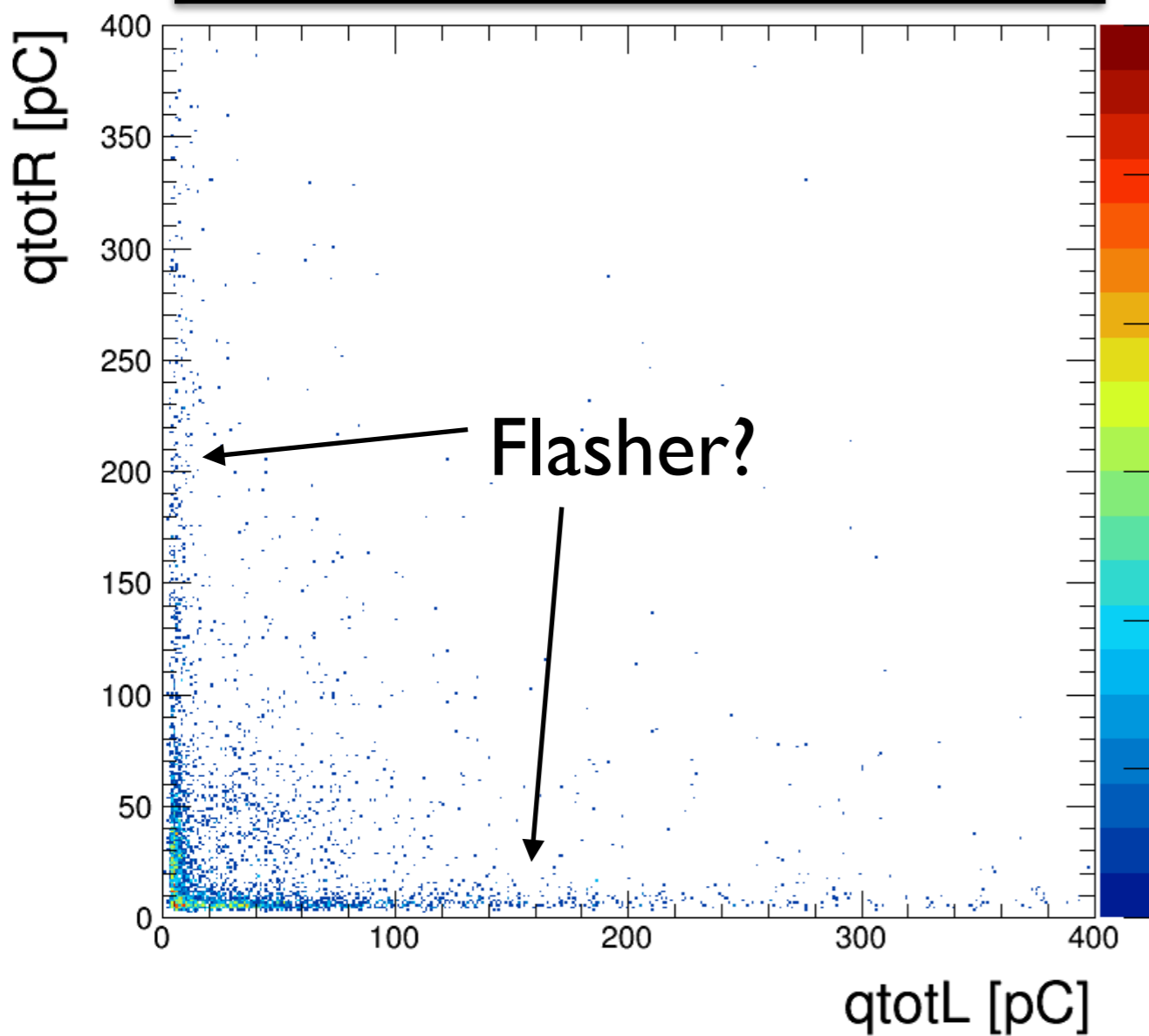
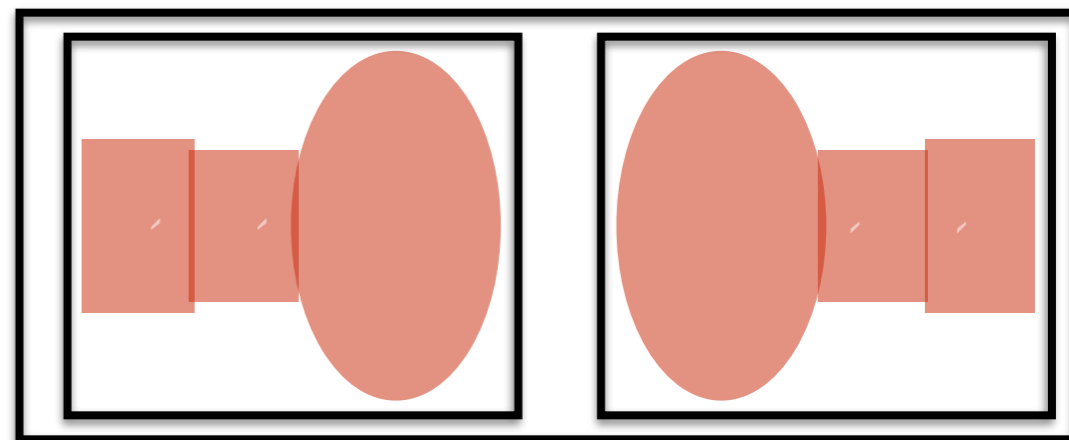
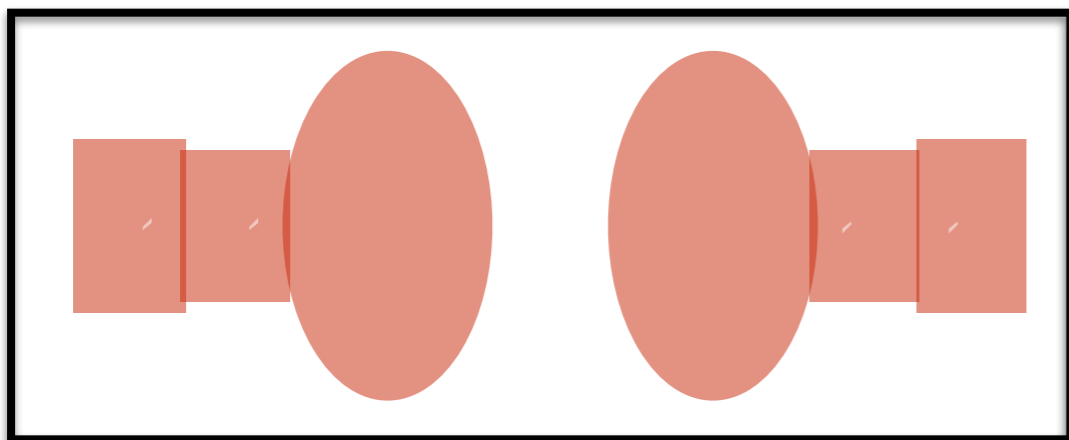
Yomin Oh

# PMTs for the Experiment

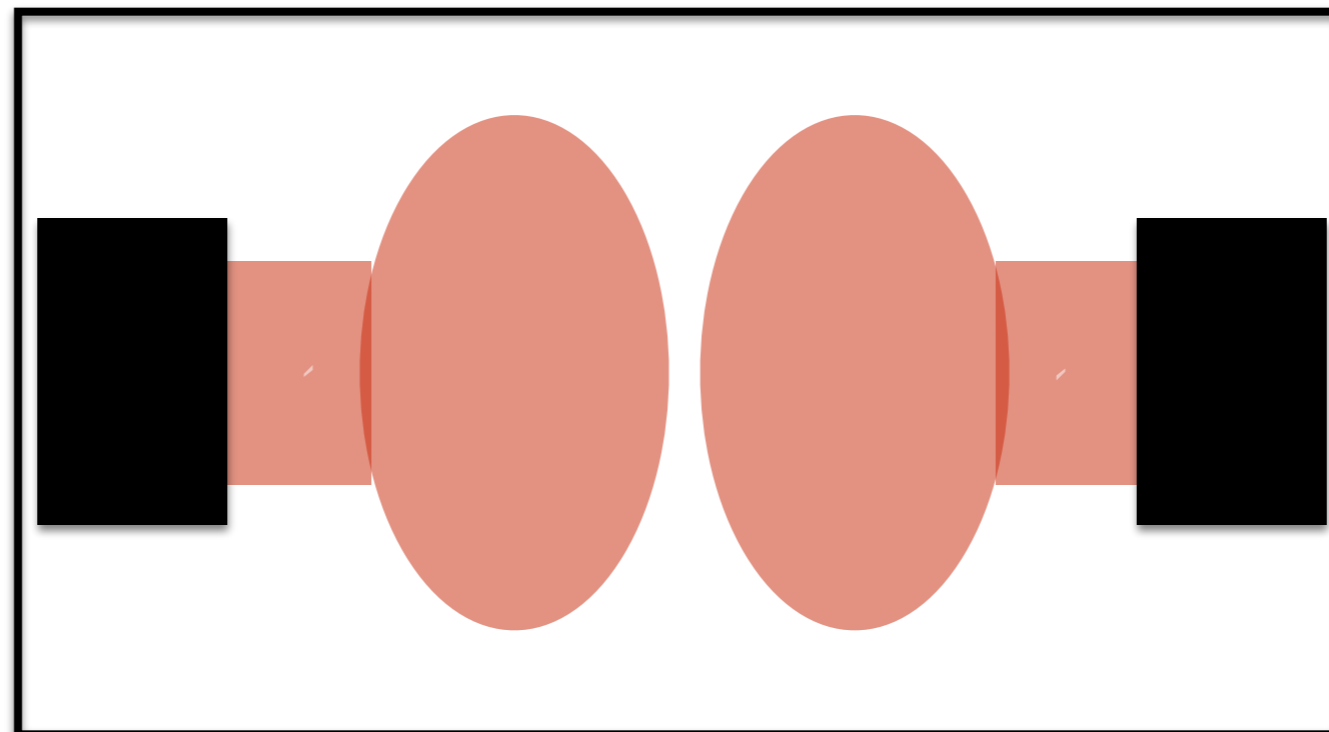
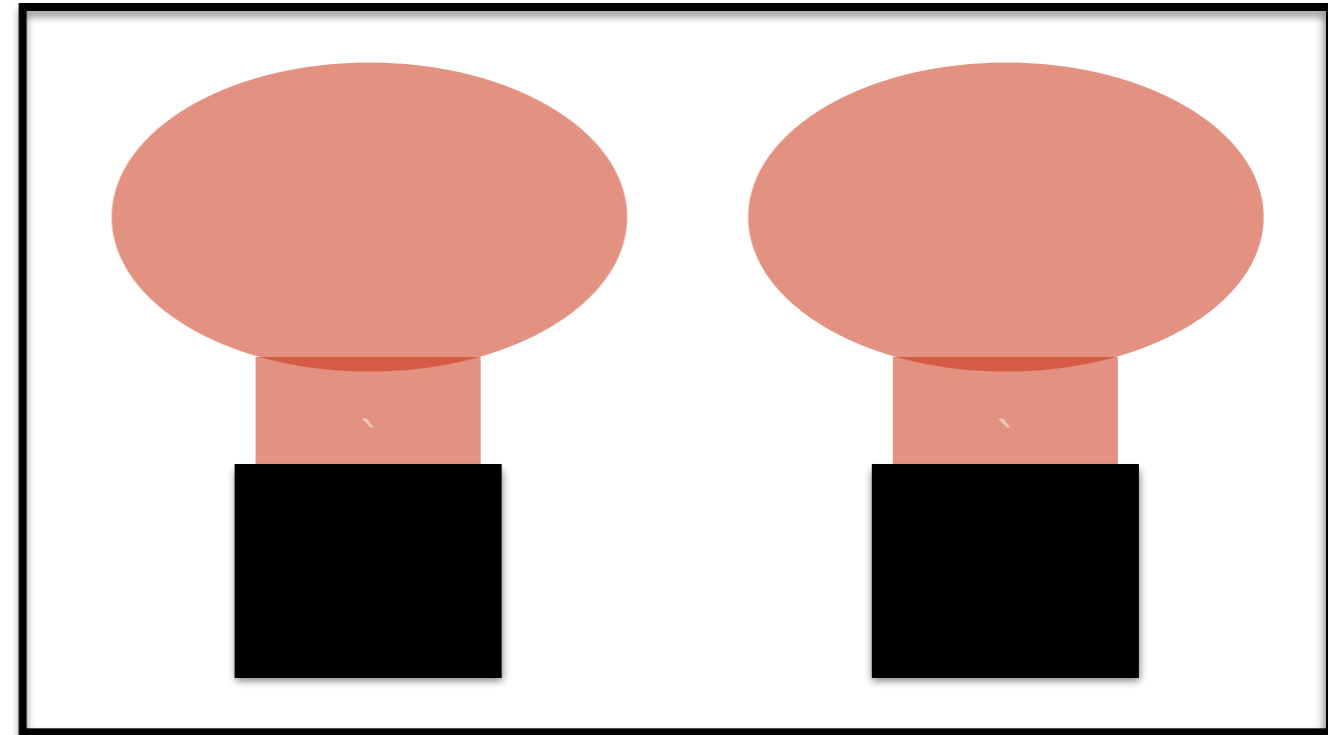
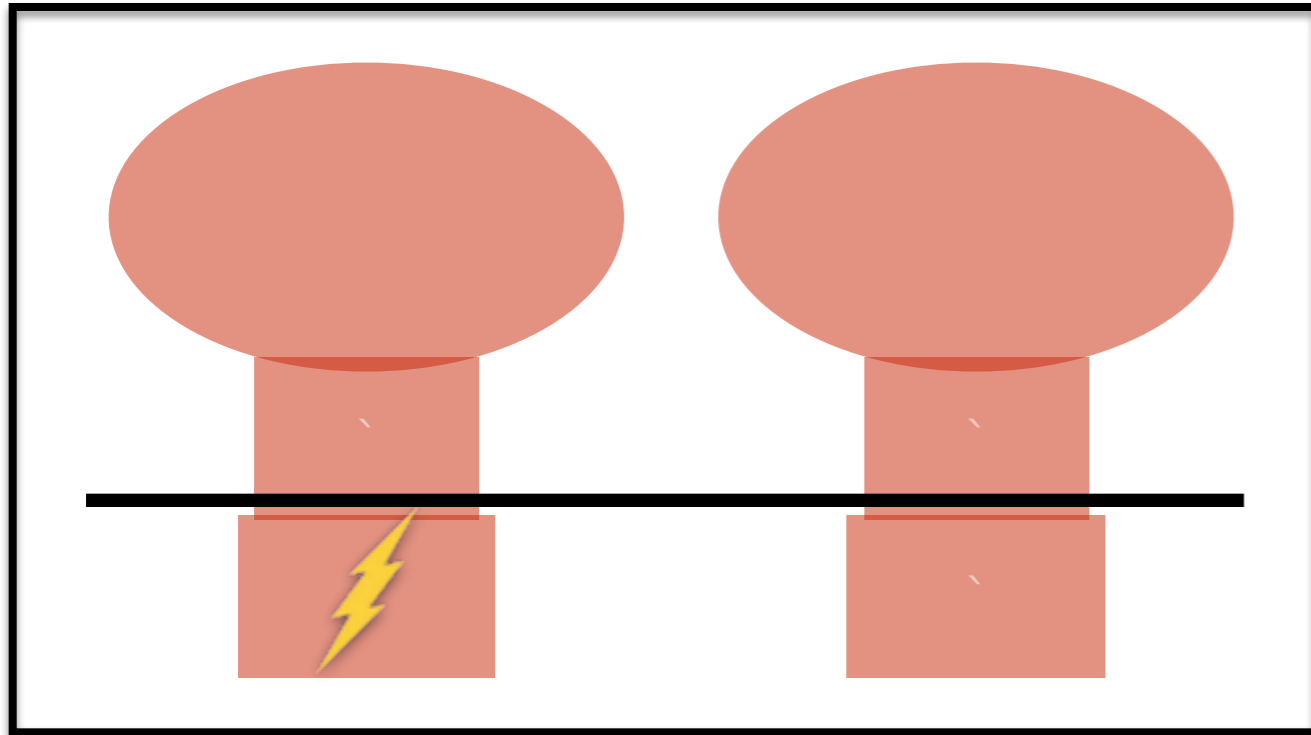
Size & Model	Will be used for	# for detectors	# already have	# ordered & estimated shipment date (+15 days)
8" (202 mm) R5912	Target	24	4	30 Jan 27, 2015 (Feb 11)
5" (133 mm) R877-100	Gamma Catcher	40 ~ 48 depends on thickness	(2)	50 (10+20+20?) <b>Mar 24, 2015</b> <b>(Apr 8)</b>
2" (60 mm) H7195	Muon Veto	20~30? depends on design	30	35 Feb 10, 2015 (Feb 25)

# 8" PMT Flasher

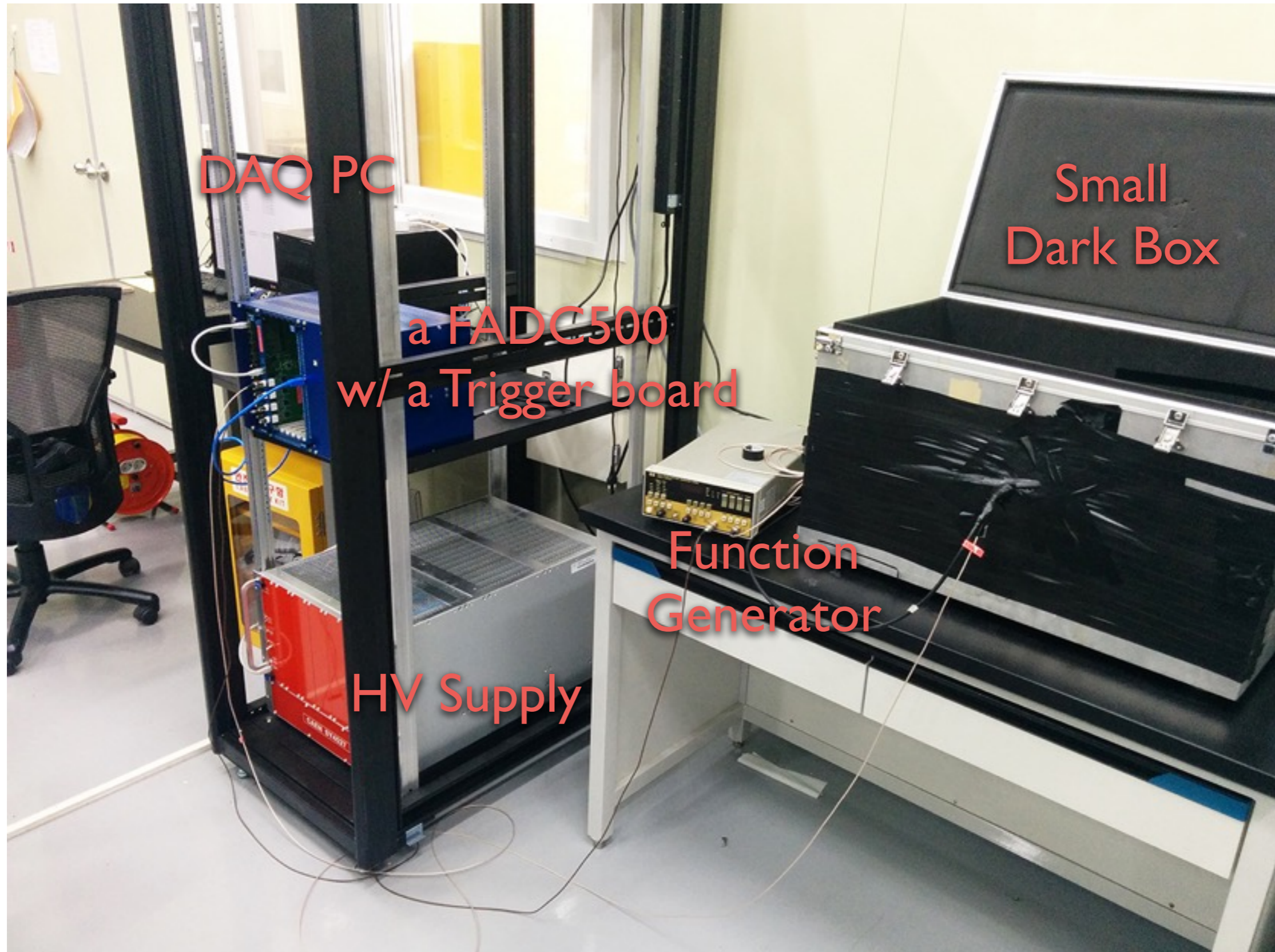
Baro Kim's Work



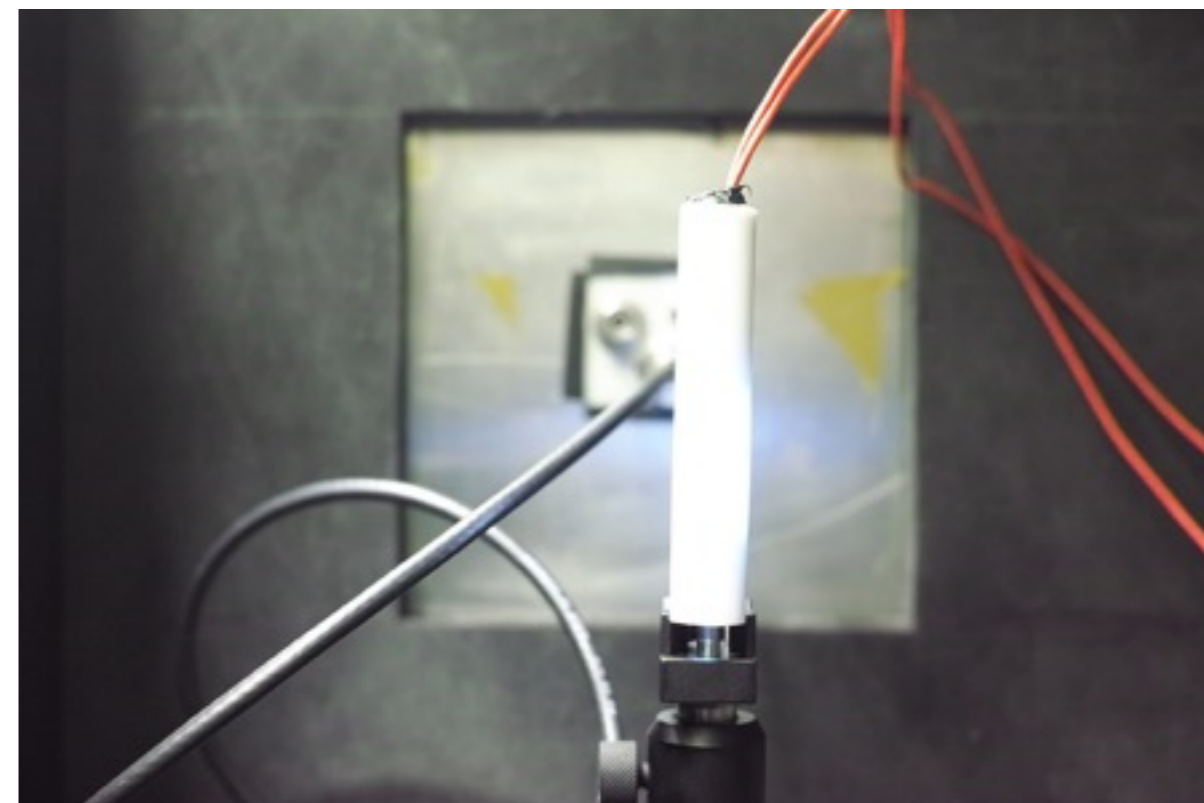
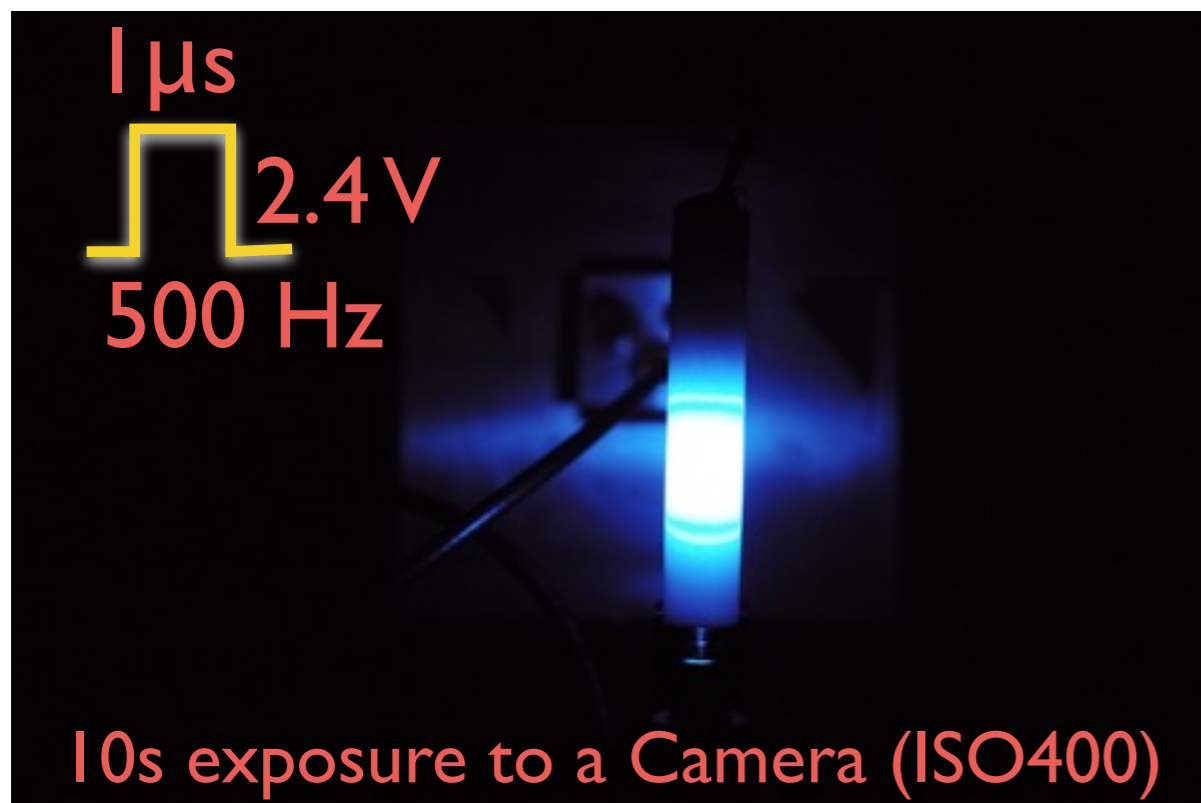
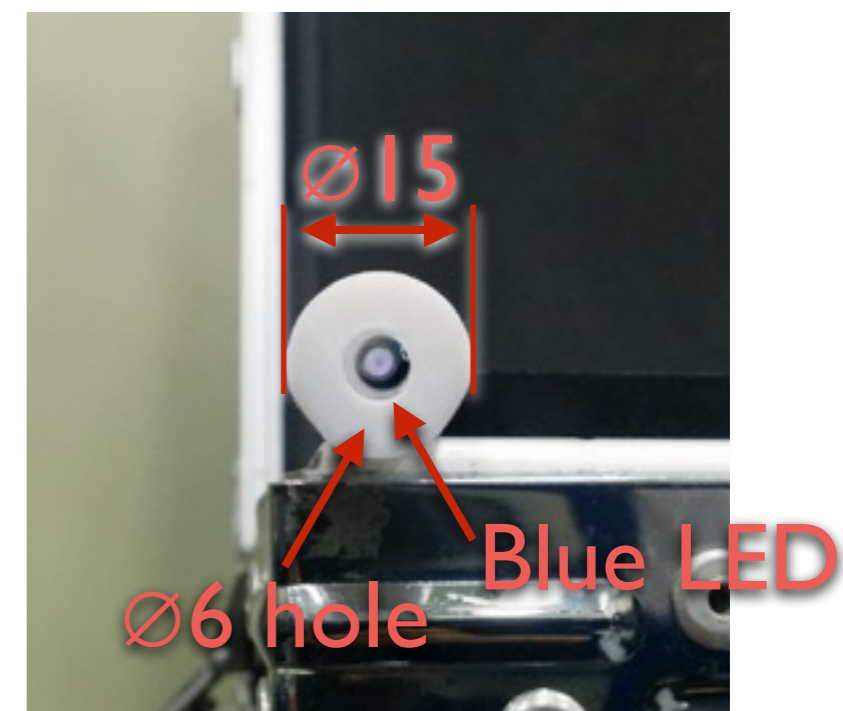
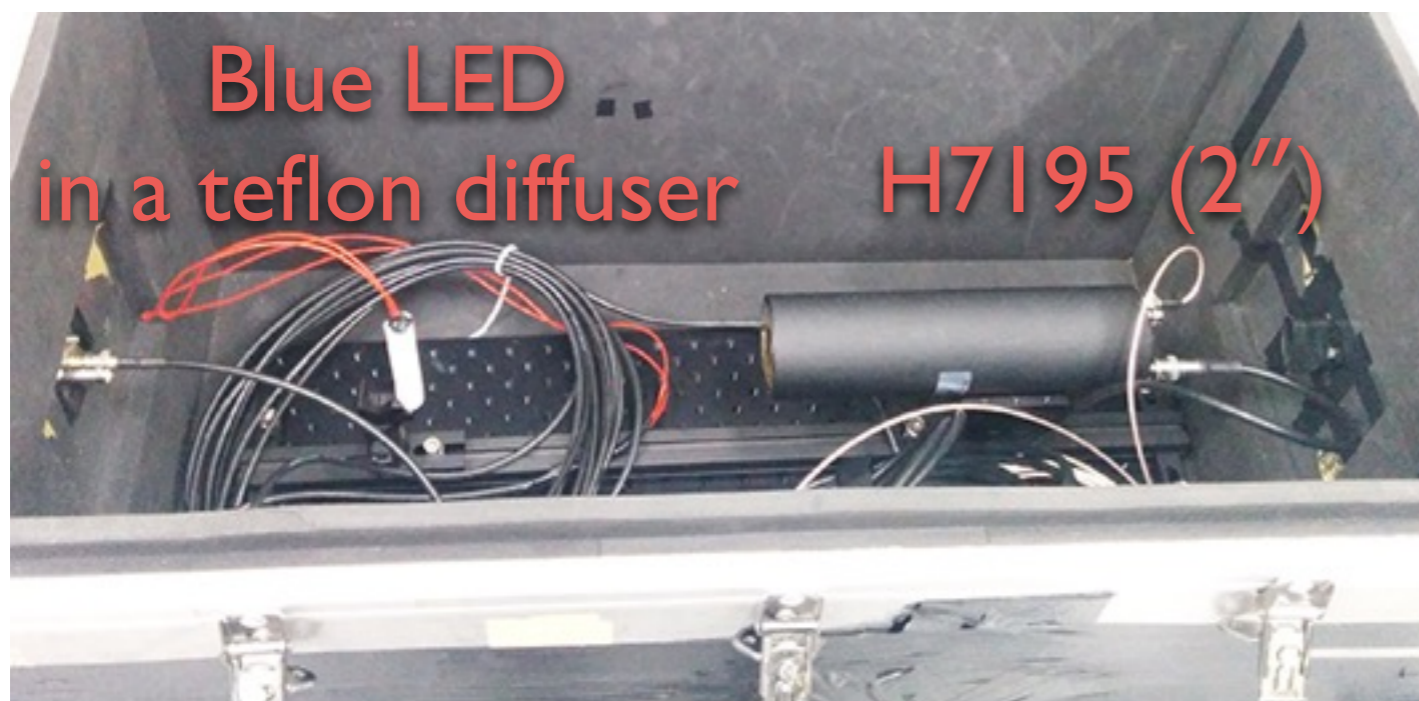
# 8" PMT Flasher - Plan



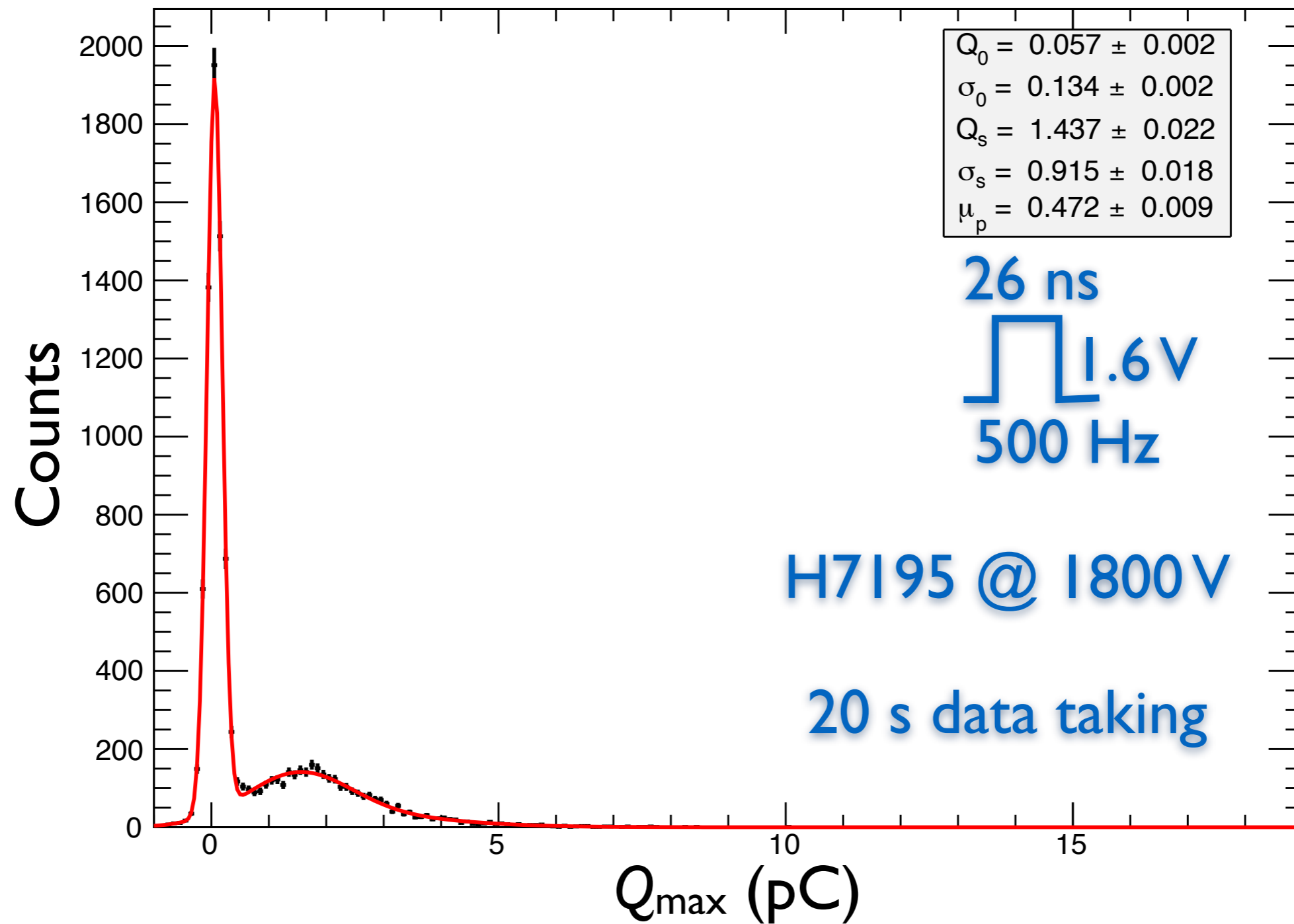
# Current Setup - I. Hardware



# Current Setup - 2. Dark Box



# A Test Result - Single PhotoElectron Peak



# New Dark Box for a Mass Calibration

- To measure up to (4 or 6) x 8", 8 x (5" or 2") simultaneously.
  - Size will be  $\sim 1 \times 1 \times 0.4 \text{ m}^3$ ,  
Equipped with a  $75 \times 75 \text{ cm}^2$  optical table.
  - One measurement should take less than a day.
    - Only one (or two) week for 5" PMTs.
- Better diffuser.

Thank you