

Status report

Tokyo University of Science

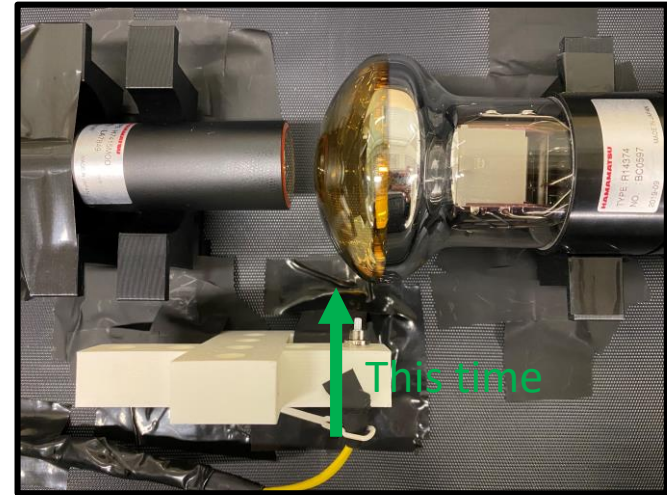
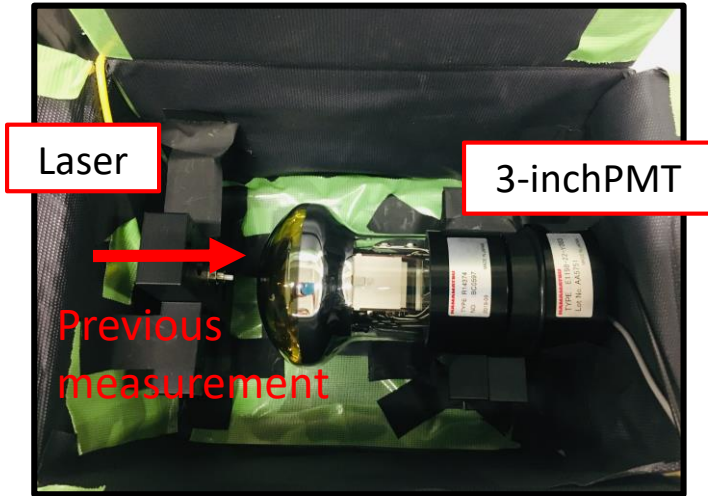
Tatsushi Kinoshita

27th March, 2020

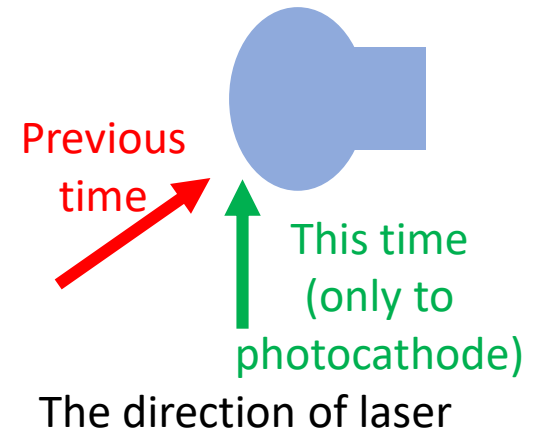
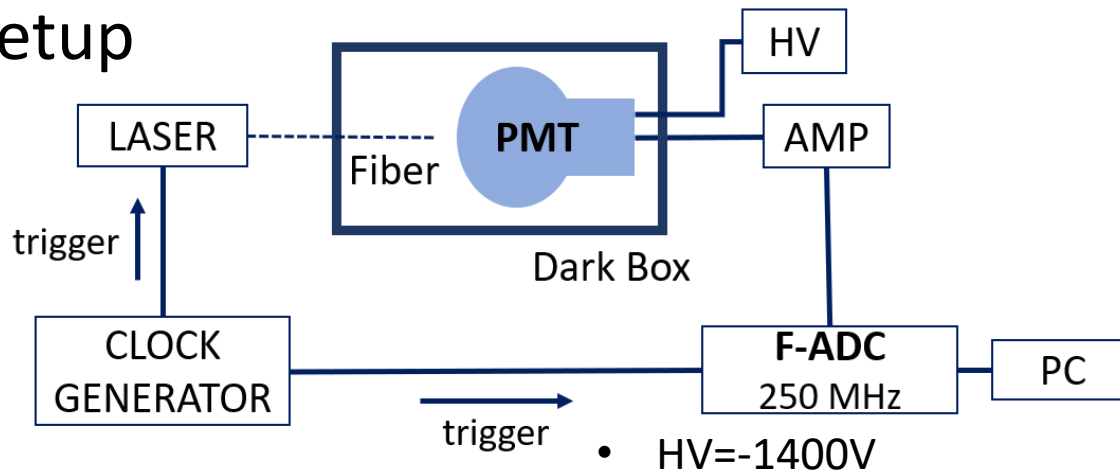
mPMT meeting

This week : after pulse fraction

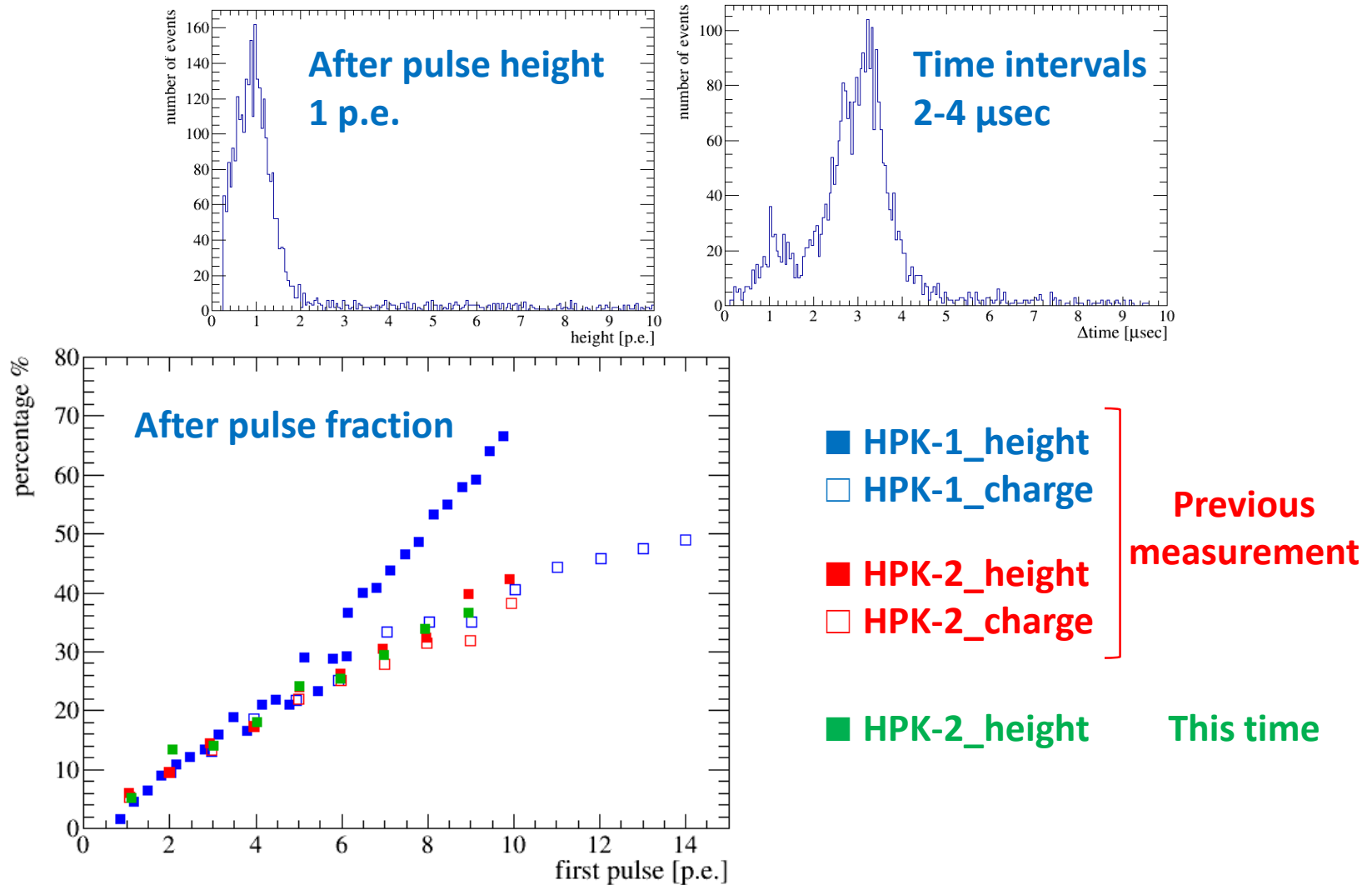
- I changed the direction of laser to illuminate photocathode.
 - measure after pulse fraction again



Setup



3-inch PMT



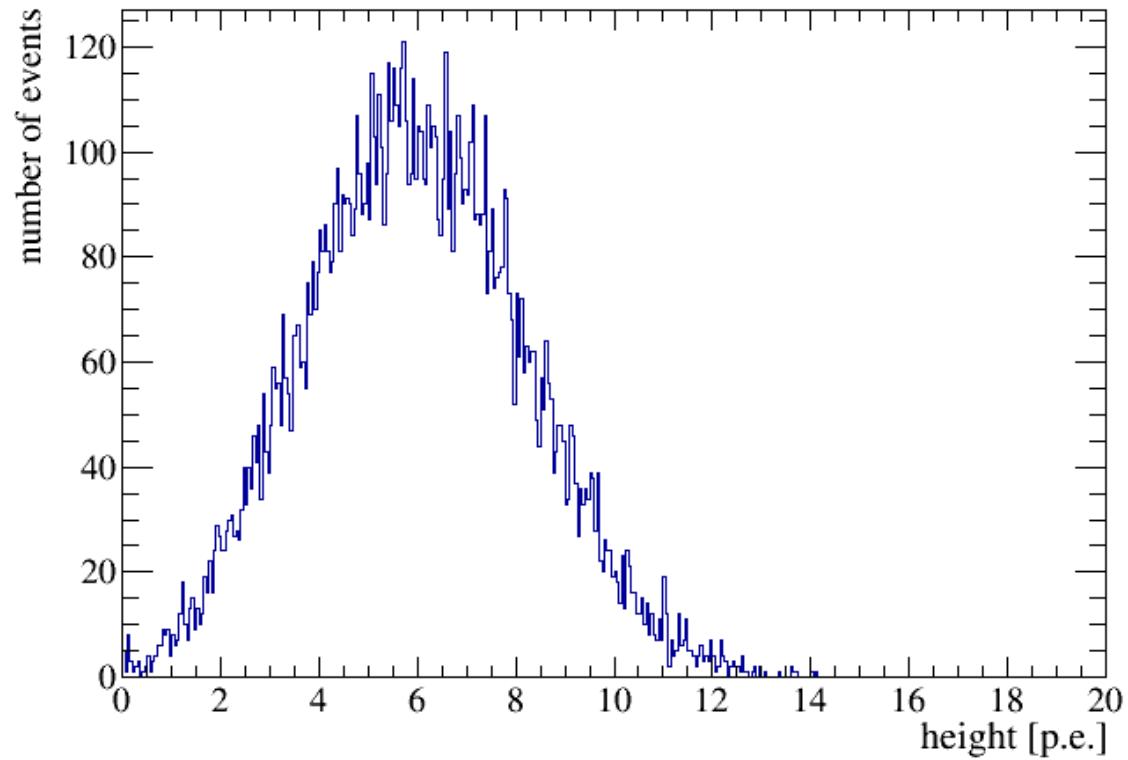
- The fraction increased with the height of first pulse.(same as previous)
 → The fraction of occurrence doesn't depend on the position of illuminating the PMT.

Future plan

- I plan to
 - send this 3" PMT(HPK-2) to Hamamatsu.
 - measure the after pulse fraction of 3" PMTs Hamamatsu sent us.
(we received 4 PMTs)

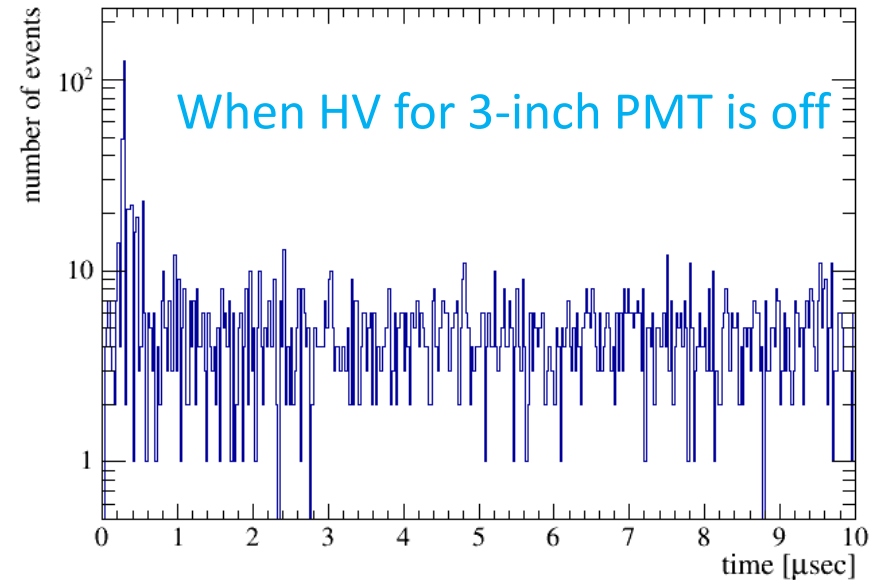
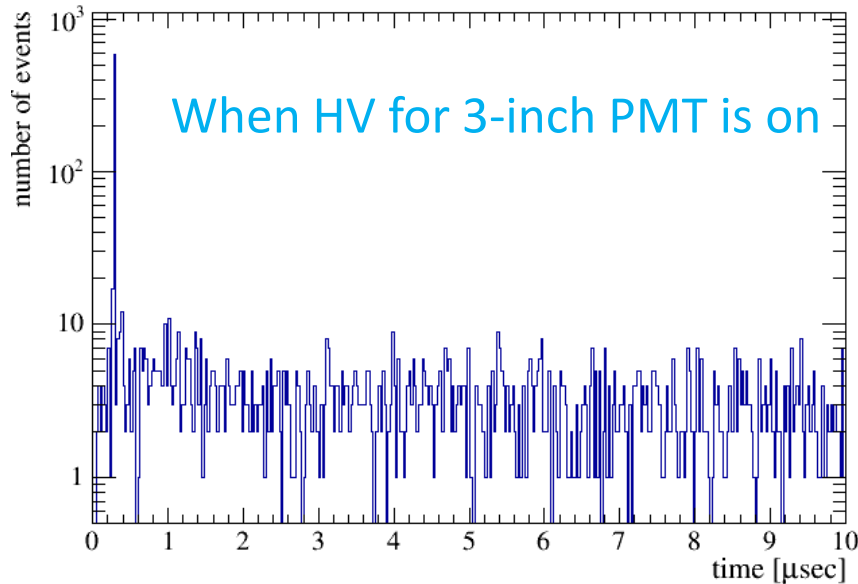
3-inch PMT

the intensity of laser

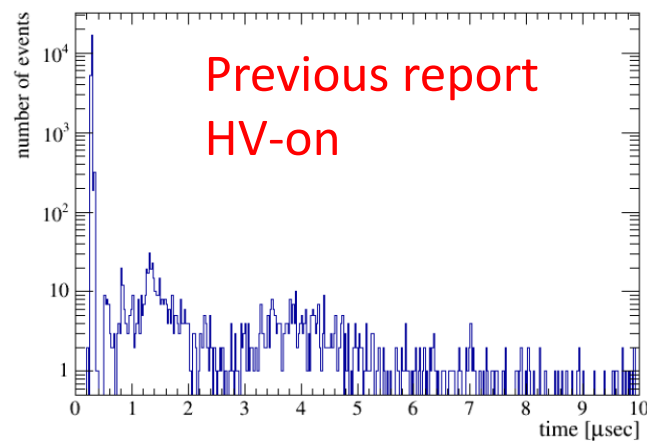


Monitor PMT

Time distribution of pulses observed by monitor-PMT ($> 0.1p.e.$)



- We couldn't see signals at around 2-4 μs for both when HV is on and off.
 \rightarrow the angle or spot of illuminating the laser may cause?



- We can see pulses at around 1.5 μs and 3-5 μs for previous measurement in case the HV is on.

