

Status report

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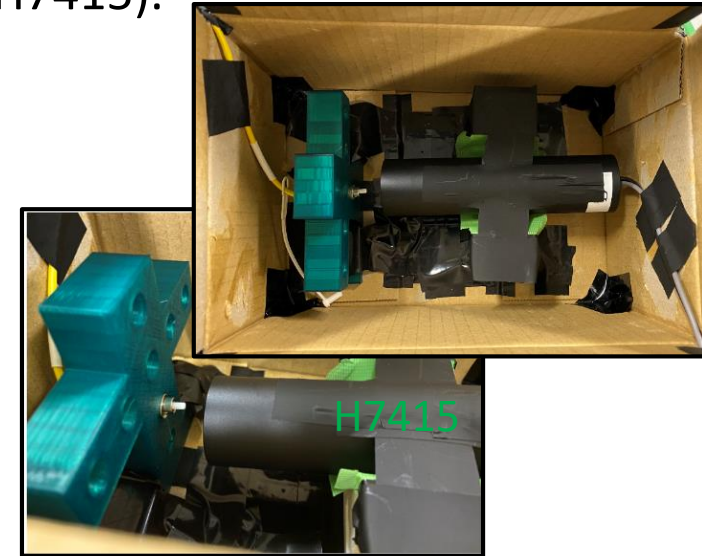
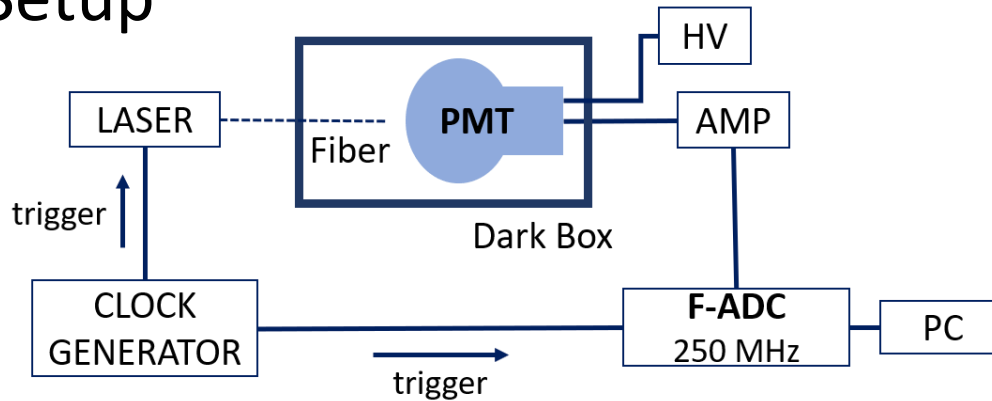
10th April, 2020

mPMT meeting

This week : after pulse fraction

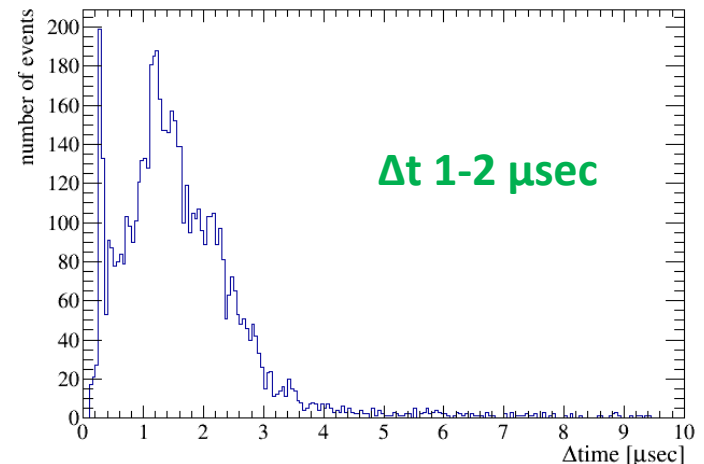
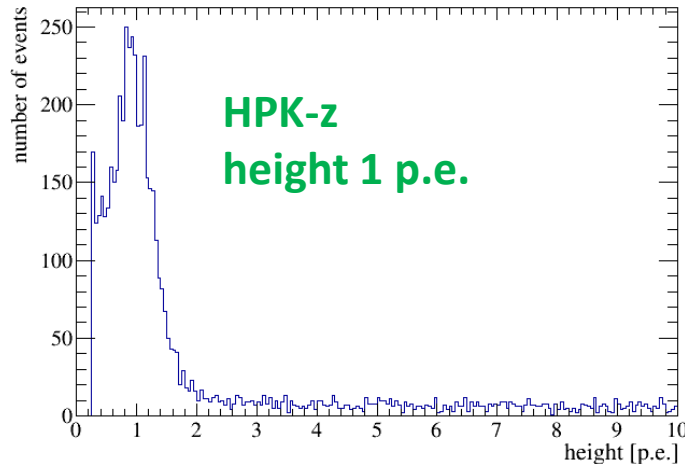
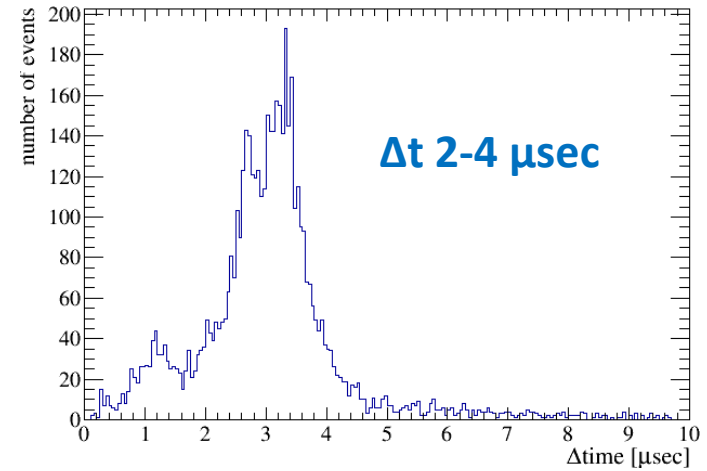
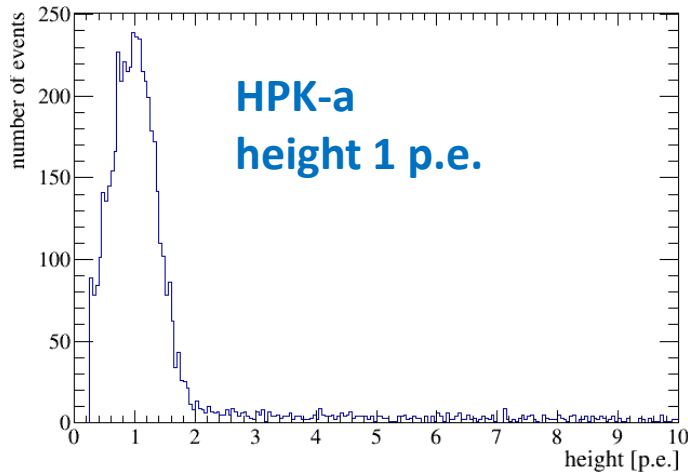
- I measured the after pulse fraction again for 3" PMTs which Hamamatsu sent us and another type Hamamatsu PMT (H7415).

Setup



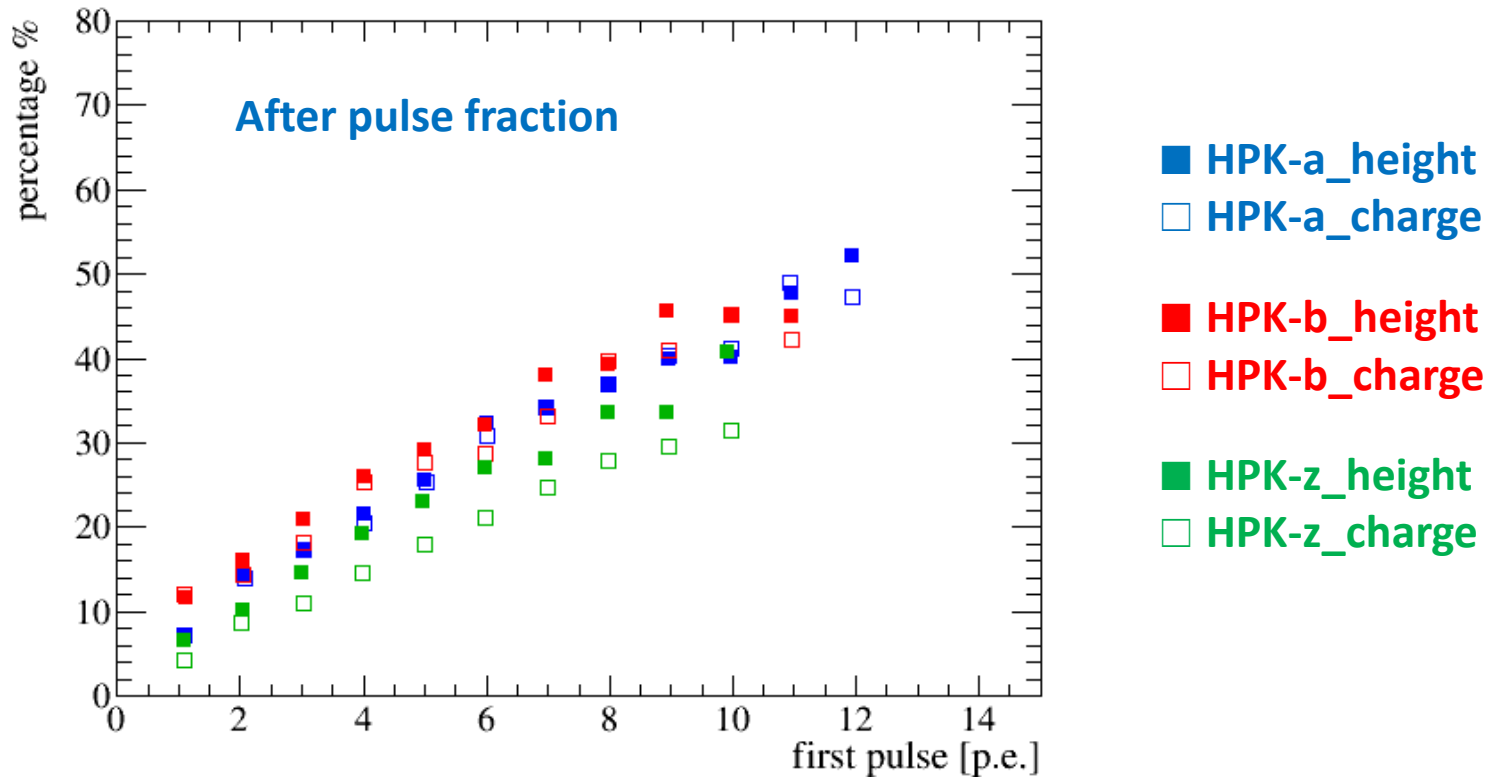
Serial number	Supply HV (Hamamatsu measured)	Fraction (Hamamatsu measured)	ID	Supply HV
KM29631	1160V	3.2%	HPK-a	-1160V
KM29639	1130V	3.5%	HPK-b	-1130V
KM29648	1060V	2.7%	HPK-c	-
KM29650	1100V	2.8%	HPK-d	-
H7415	-	-	HPK-z	-1400V

After pulse



- The same 1 p.e. level signals were seen, but the time intervals between main signal and after pulse were different for 3" PMTs and another PMT.

After pulse



- The fractions of all PMTs increased with the height and charge of main pulse.
→ different from Hamamatsu's measurement for HPK-a and b.

Future plan

- I plan to
 - measure for another 2PMTs (HPK-c, HPK-d).

✂ But the due to the restriction because of virus, I cannot go to the laboratory.
So we don't know when I can measure and report.