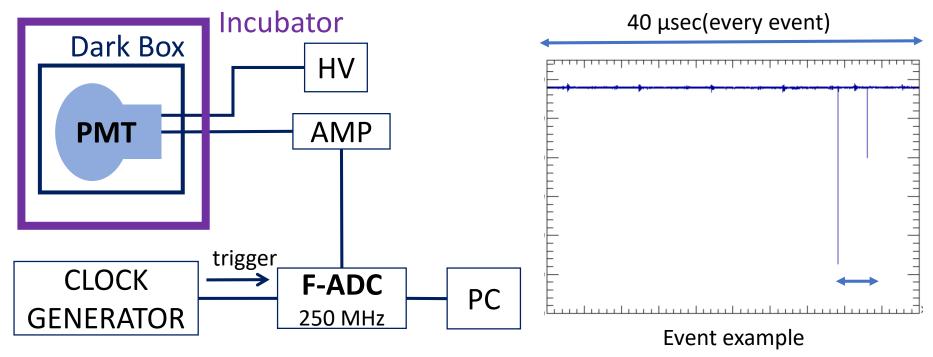
## Status report

Tokyo University of Science Tatsushi Kinoshita

10<sup>th</sup> January, 2020 mPMT meeting

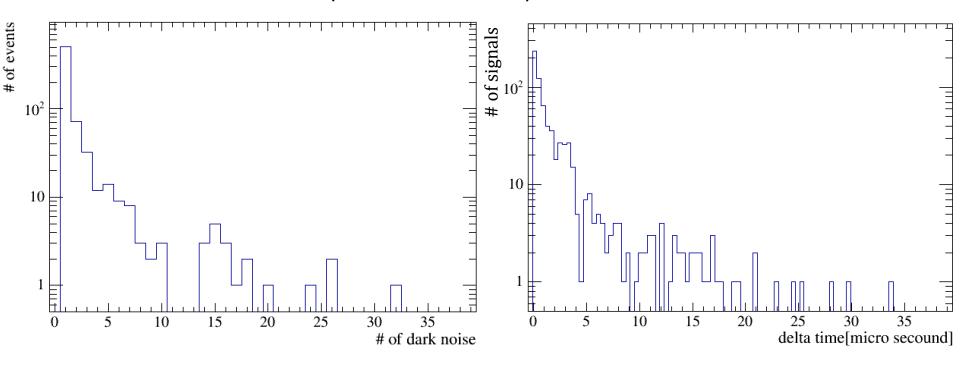
## Until this week...

• I checked the time intervals of dark noises for Hamamatsu's PMT in 40 μsec time window by F-ADC.



- HV = -1250 V
- 13°C
- Threshold = 0.35 p.e.

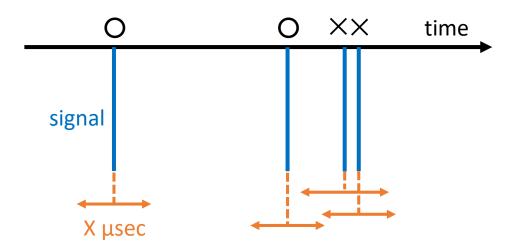
Hamamatsu :  $13^{\circ}$ C -1250V  $\rightarrow$  249.95Hz (5.56sec 1391hits)

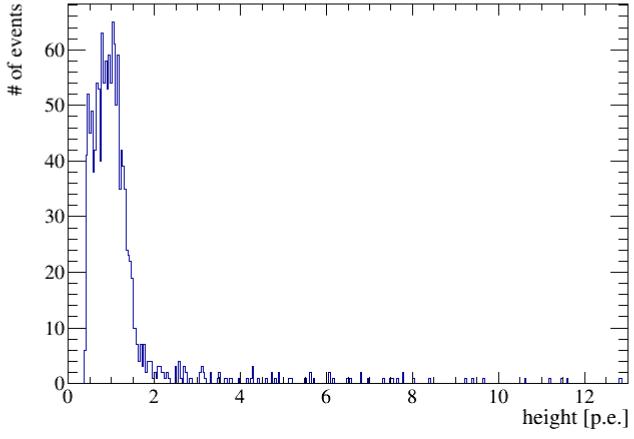


- Left graph shows the number of dark noises in each event. About 25% events had multi signals in 40  $\mu$ sec.
- Right graph shows the time intervals of multi signals.
  - The number of signals decreased with time intervals.

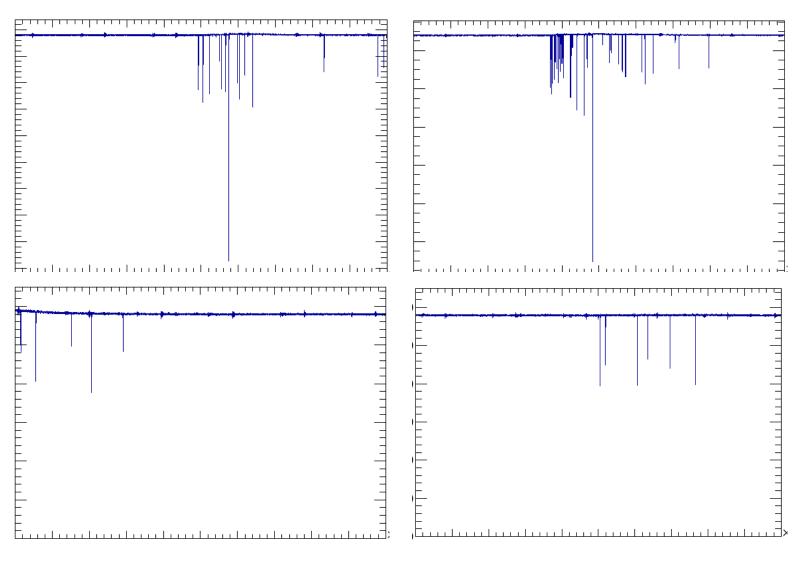
## Future plan

Changing the value of time frame which is based on time intervals,
I will reduce the signal count in that frame and check the dark rate.





Height of dark noises



Waveform examples