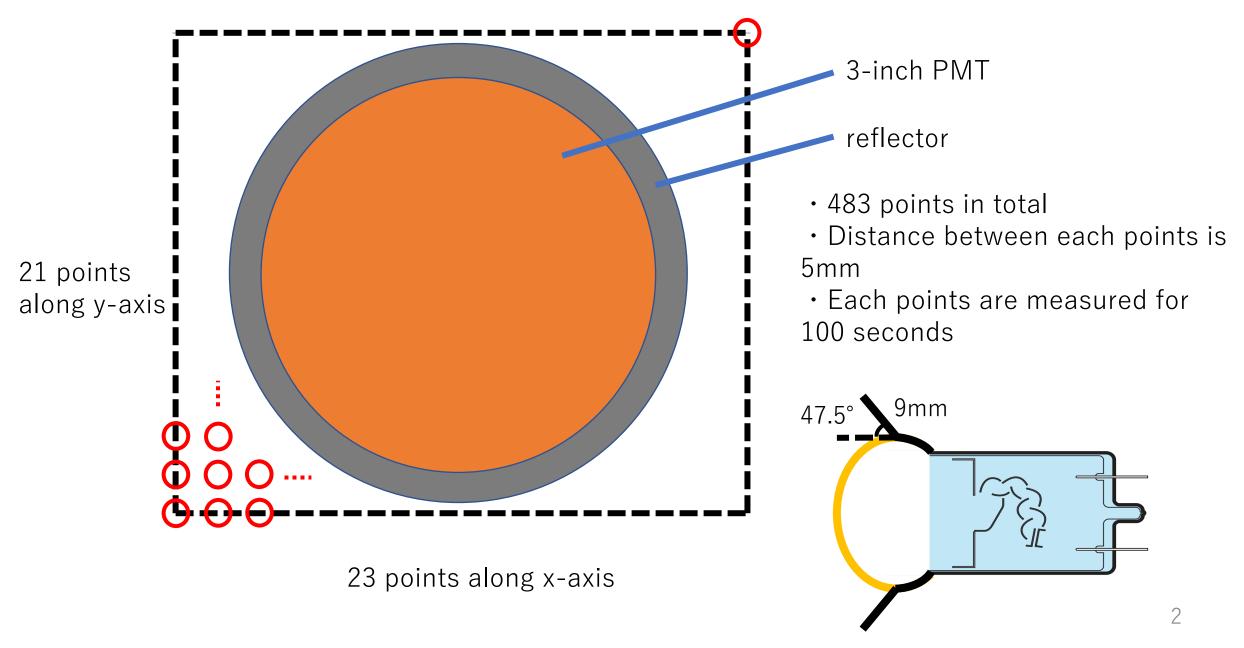
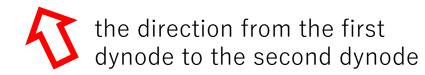
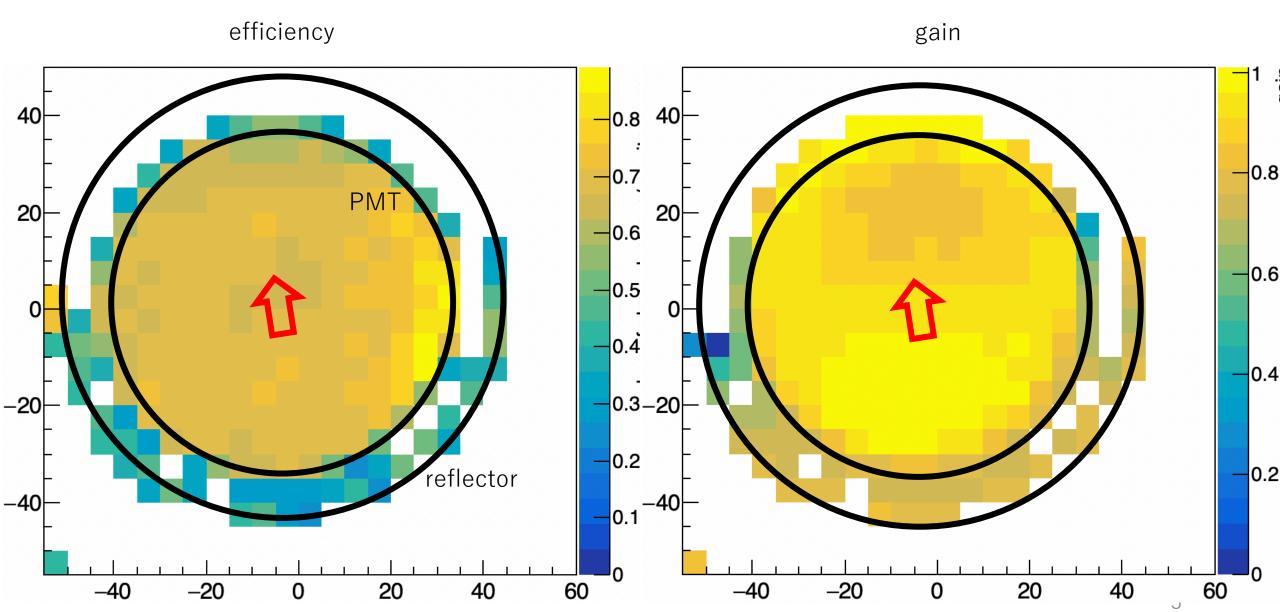
## Status Report

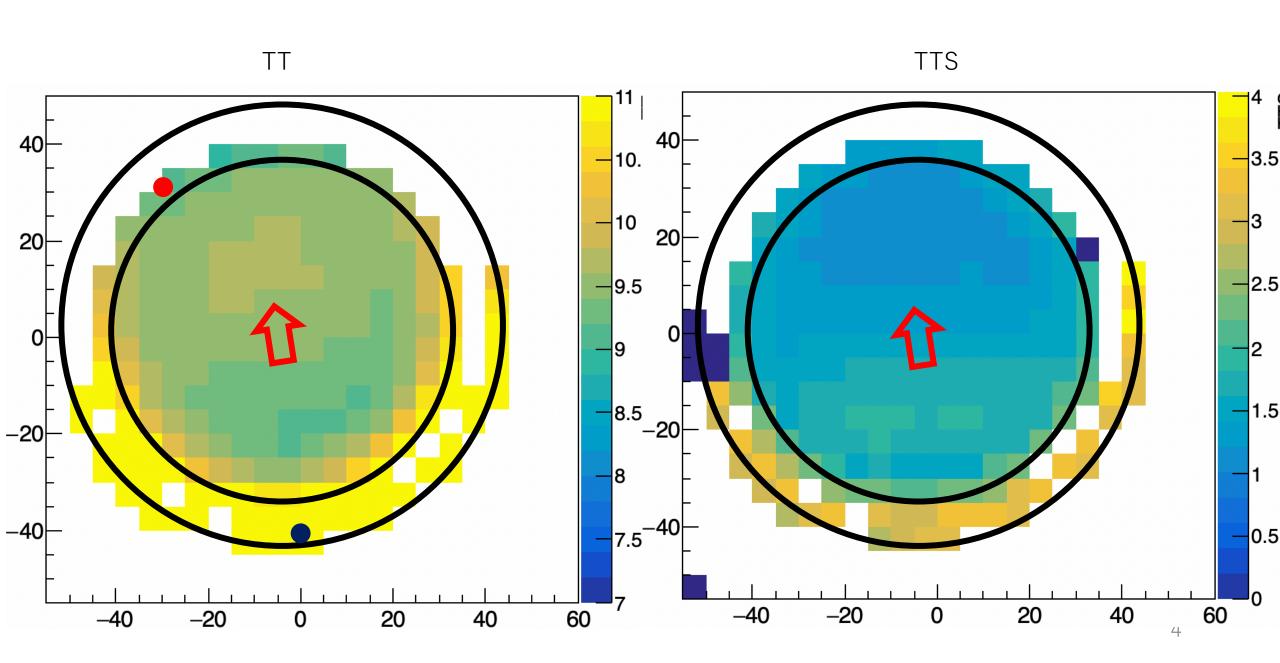
Isao Sashima Nov. 13, 2020 mPMT meeting expanded the measurement area and increased the granularity



with 47.5°, 9mm reflector, 483 points

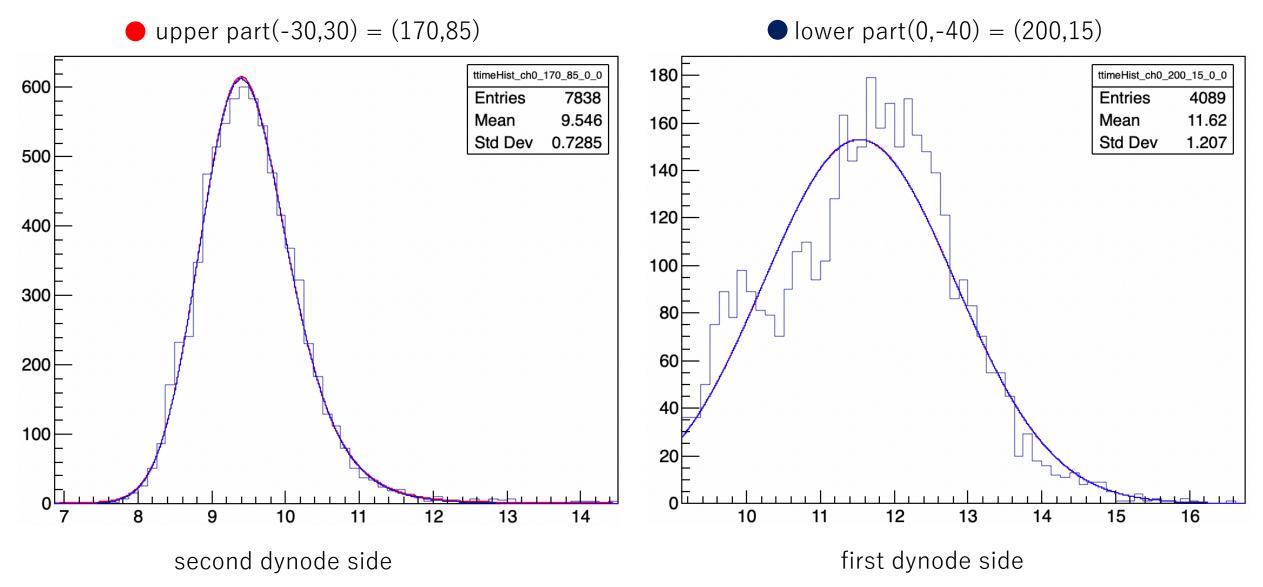




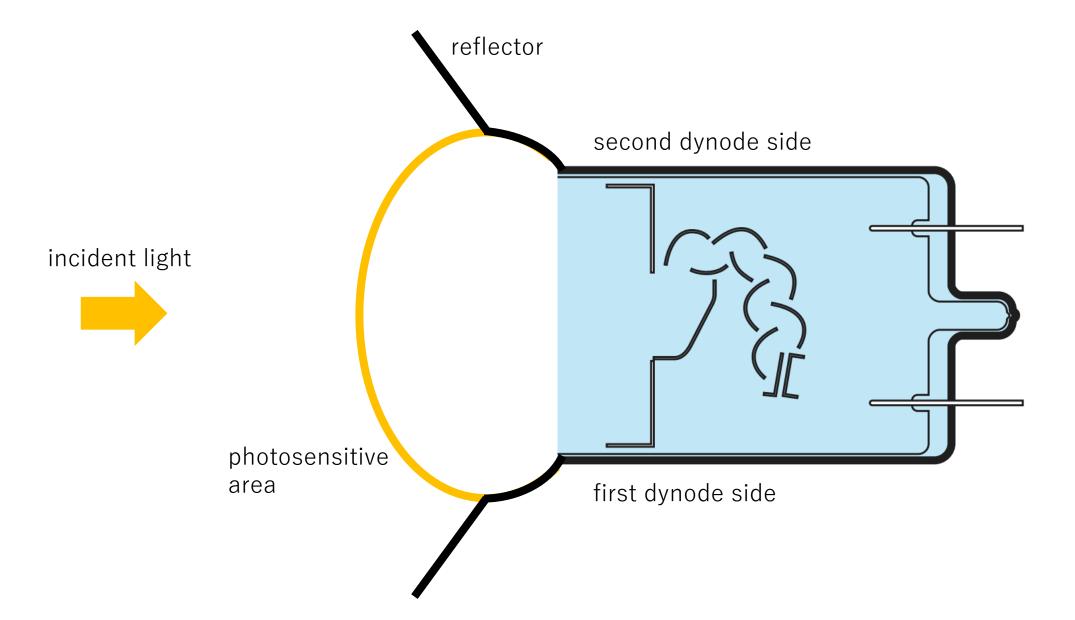


large difference between the upper part and lower part of the reflector

→ different number of entries



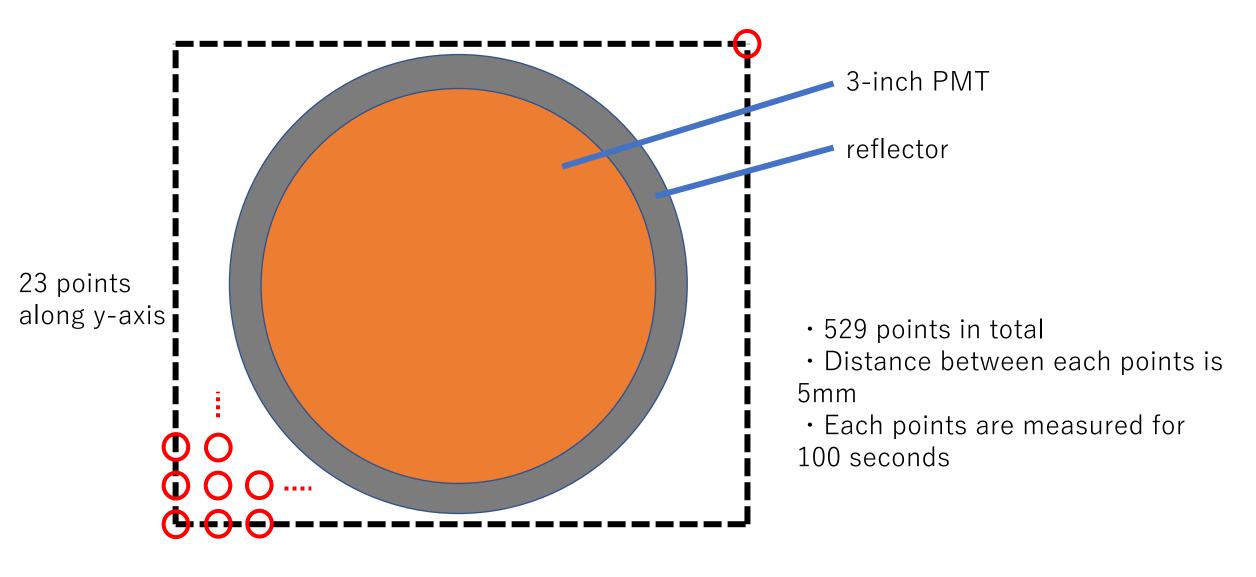
· As in the case without the reflector, suspected that there is a correlation with the position of the dynode.



## To do

- · consider the relationship between TT values and position.
- · using 3D printer, make the maximum length of reflector that the PMTs don't overlap each other with angle I'm using now.  $(47.5^{\circ}\ \text{and}\ 51^{\circ}\ )$
- · using the new reflector, examine how much light increases.

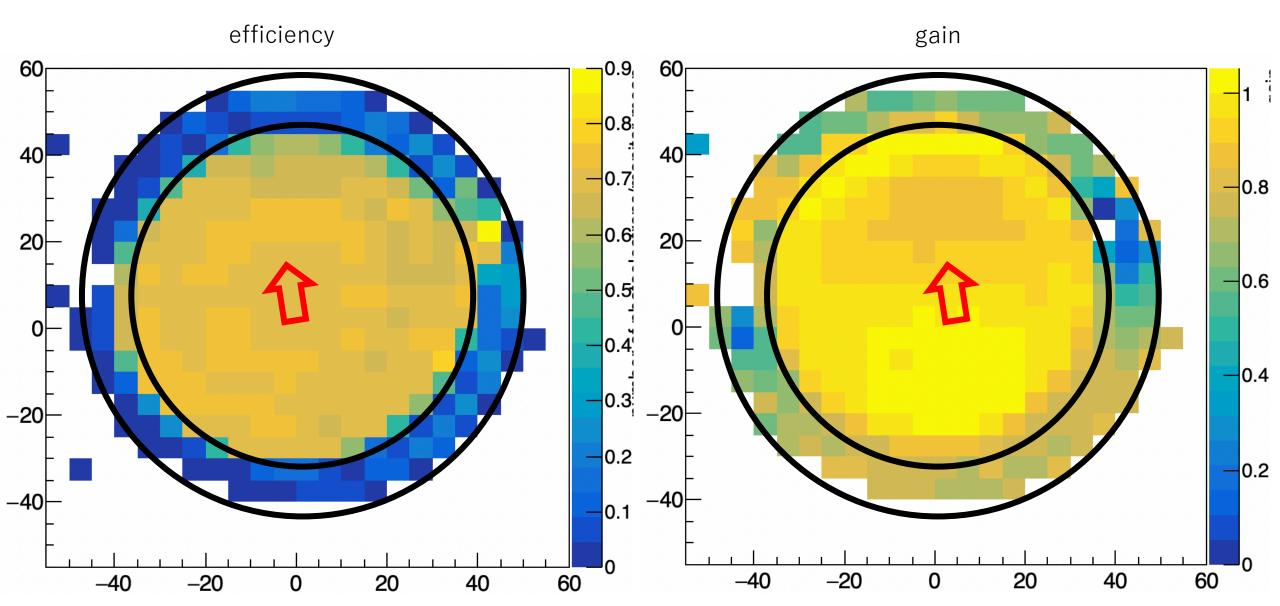
Backup

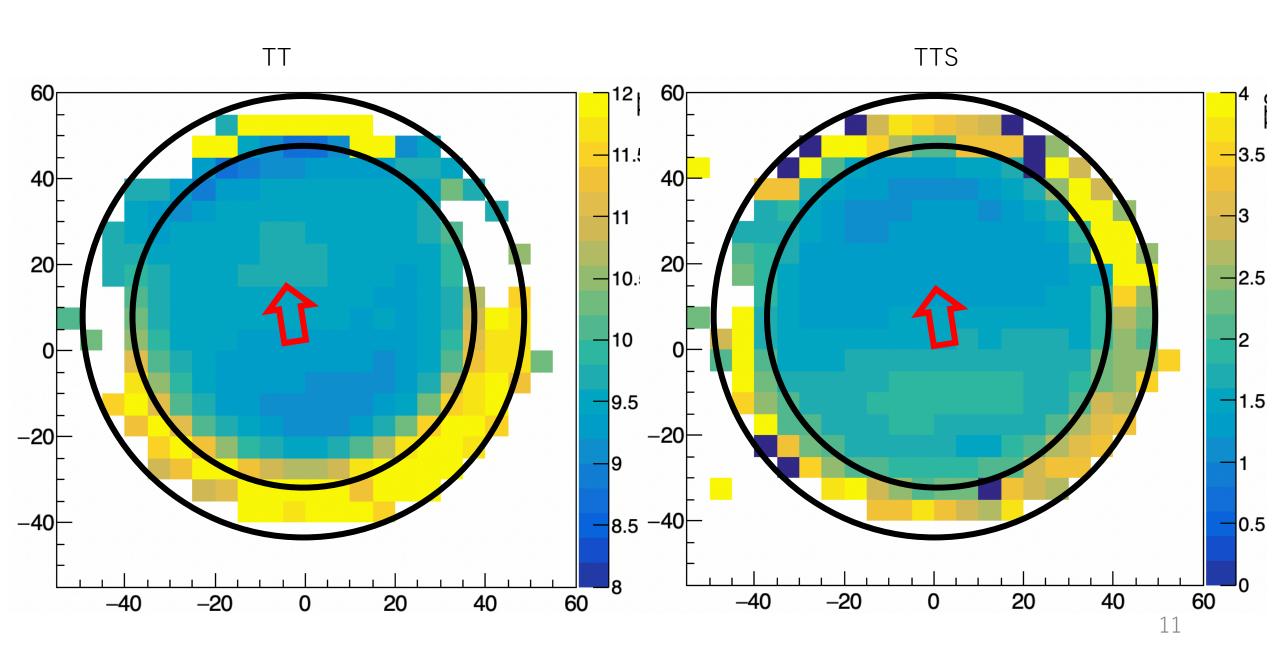


23 points along x-axis

with 51°, 9mm reflector, 529 points

the direction from the first dynode to the second dynode





charge histogram at the PMT part (-15,-5) charge histogram at the reflector part (0,-40) 2200 chargeHist\_ch0\_200\_15 chargeHist\_ch0\_185\_50 3000 **Entries** 35607 35649 **Entries** 2000 0.08113 Mean Mean 0.43 Std Dev 0.3471 Std Dev 0.6977 1800 2500 1600 2000 1400 1200 1500 1000 800 1000 600 400 500 200 10 10 13