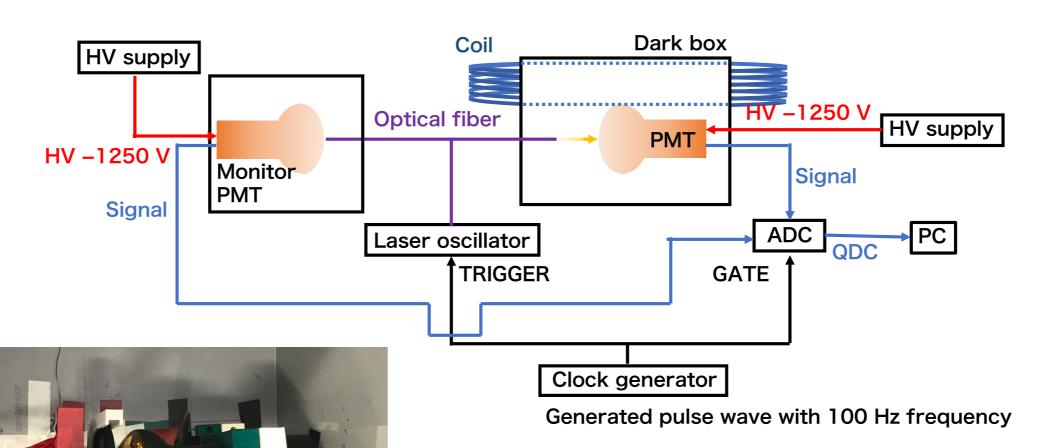
Status report M.Inomoto

Magnetic field effects

 I measured the magnetic field dependence of the relative efficiency with the monitor PMT (another 3-inch PMT) and the coil.

Relative efficiency = $\frac{\text{Mean of 3-inch PMT p.e. } (\mu \text{ of Poisson distribution})}{\text{Mean of Monitor PMT integrated charge}}$

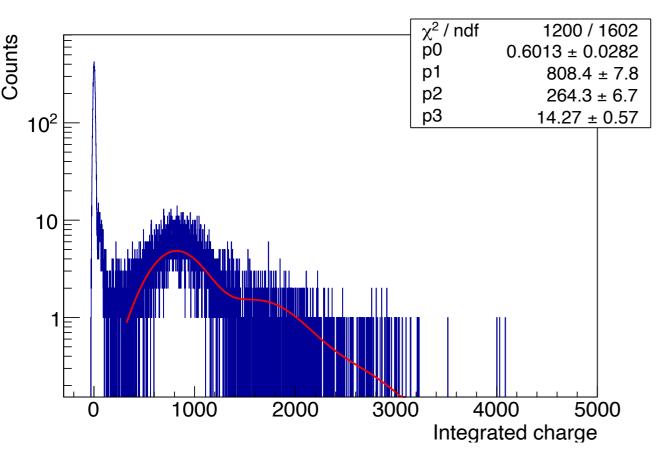


I set the PMT so that B-field went from the 1st dynode

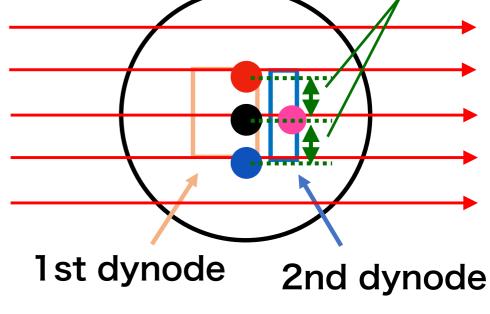
to the 2nd dynode.

I measured the relative efficiency.

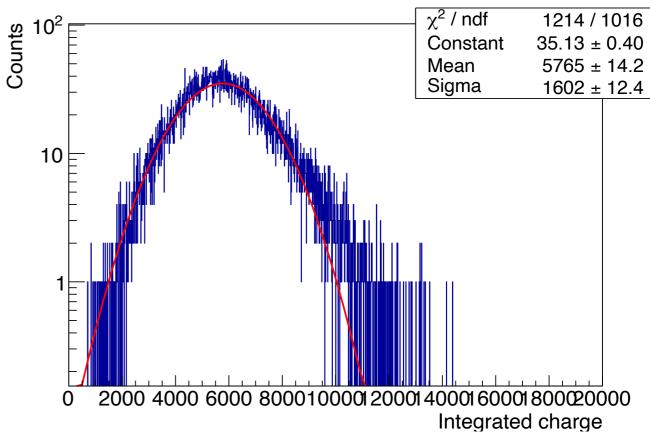




3-inch PMT integrated charge



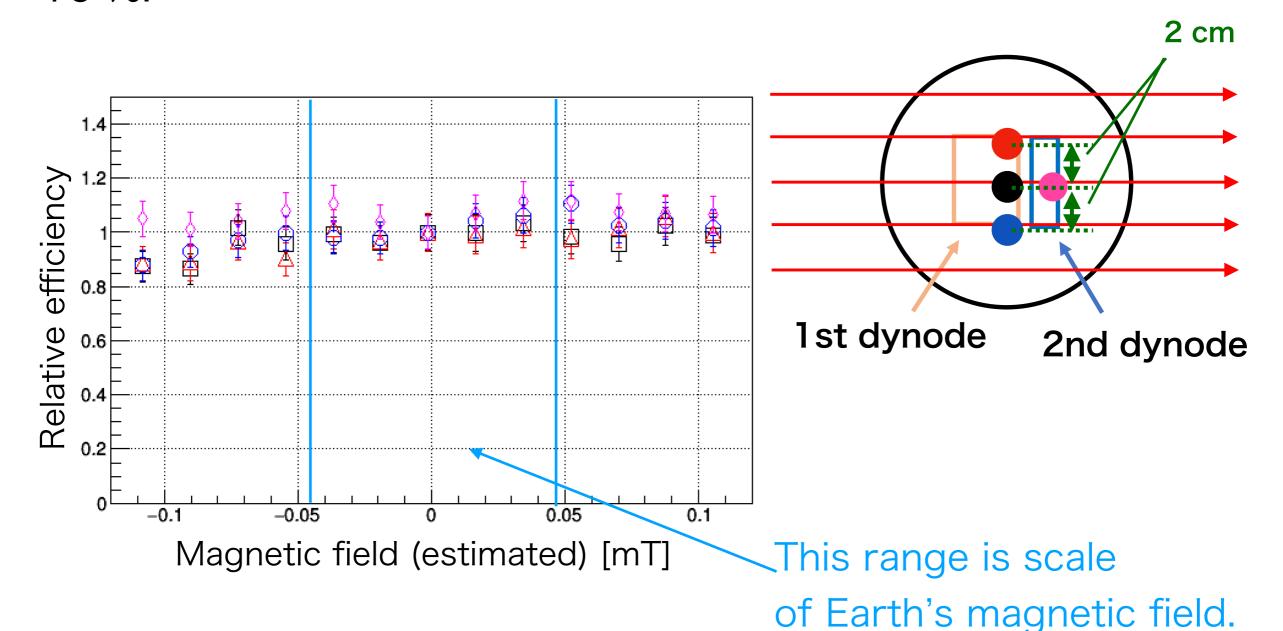
2 cm



Monitor PMT integrated charge

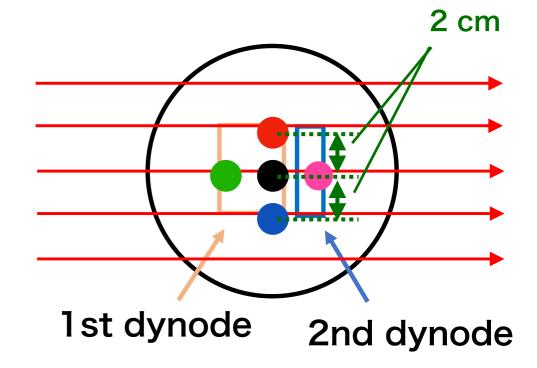
Magnetic field effects

- I measured the relative efficiency in four situations of illuminated positions with laser.
- In Earth's magnetic field, the relative efficiency varies about 10 %.



To do

- I will illuminate green position.
- I will measure the relative efficiency.



- I will illuminate some positions closer to the edge with laser.
- I will measure the relative efficiency.