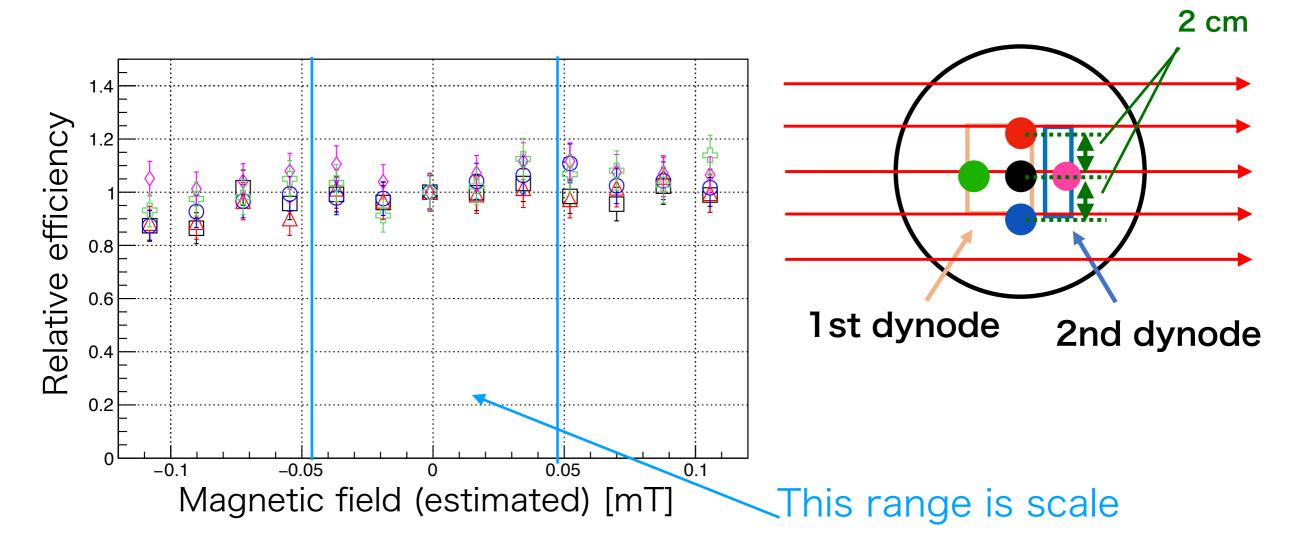
Status report M.Inomoto

Magnetic field effects

I illuminated green position and measured the relative efficiency.

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

 In the magnitude of Earth's magnetic field, the relative efficiency varies about 10 %.

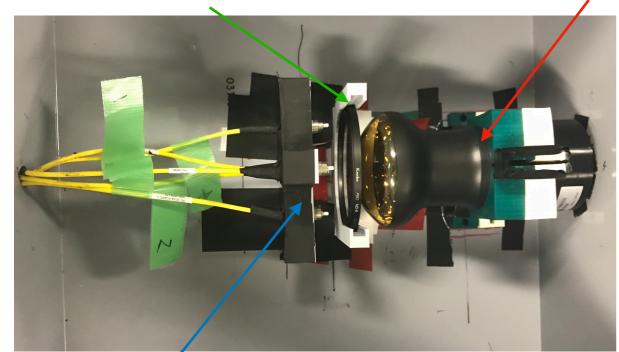


of Earth's magnetic field.

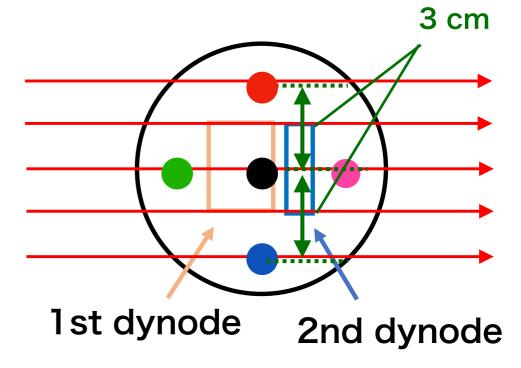
To do

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

Filter & fixture 3-inch PMT & fixture







Inside of dark box

Backup

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

