

# Pmt performance in Magnetic field measure plan

Jing Feng 11/9/2015

**1.purpose:** to test the PMT gain change in different circumstances, such as intensity of magnetic fields(MF), angle between PMT and magnetic field, niu-metal thickness.

**2.equipment:** hall probe, oscilloscope, ruler, led pulse, HV,.....

**3.procedure:**

- 1). measure magnetic field:use hall probe measure the intensity of Mf in x/y direction
- 2).measure gain change with different magnetic filed;
- 3). Measure gain with different miu-metal
- 4). Measuer gain with different angle(step=5deg)
- 5). Measuer gain with different angle and miu-metal .

A silicon phton detector will be used to monitor the LED light.