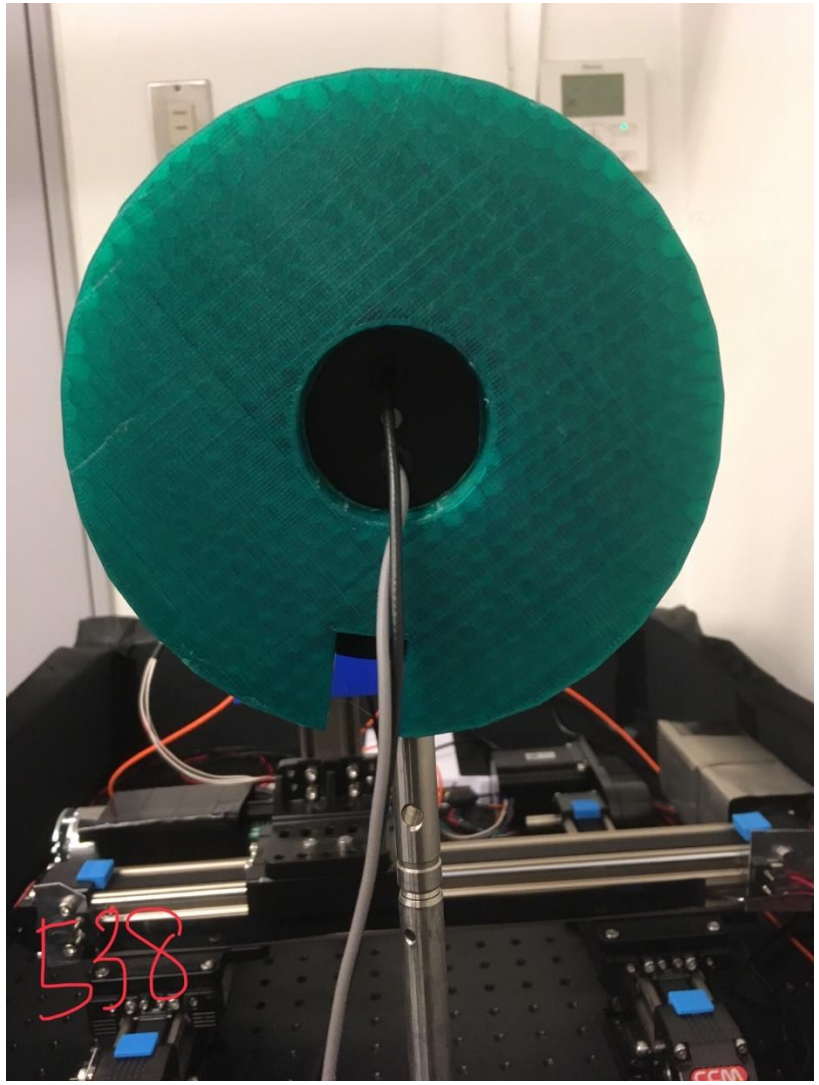
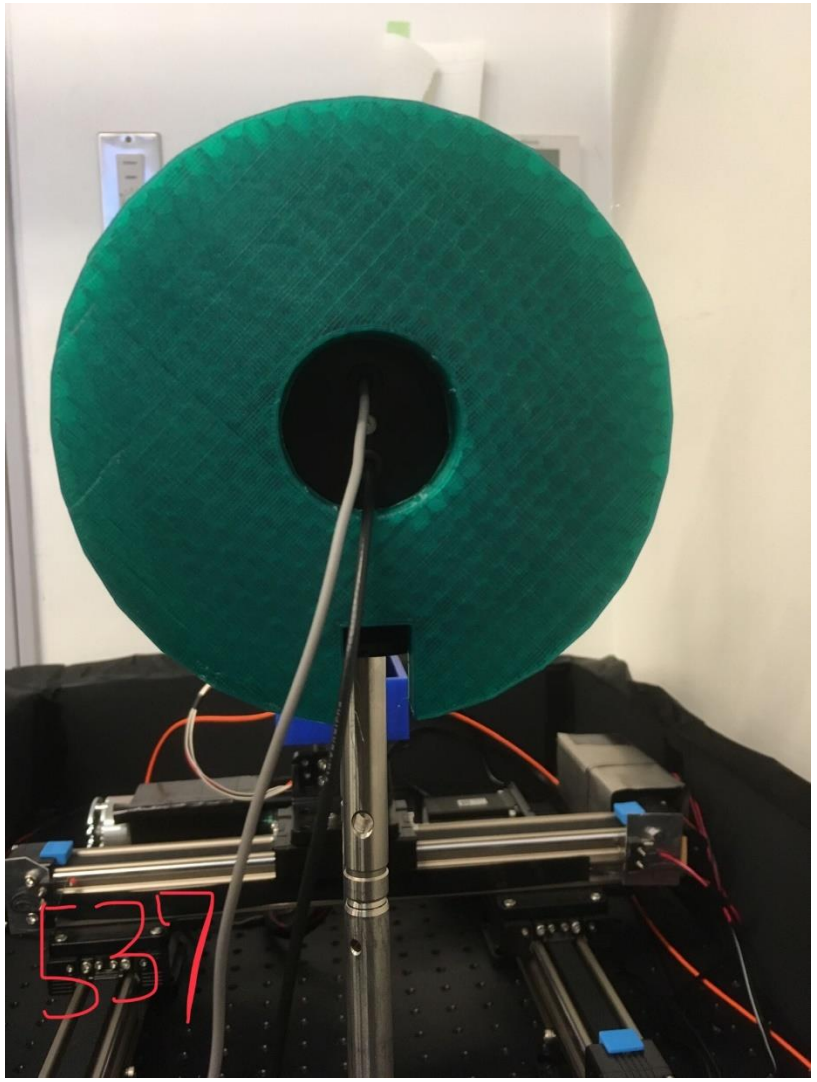
Status Update

TUS Nao Izumi

12/14/2018

Setup





R14374, BC0035

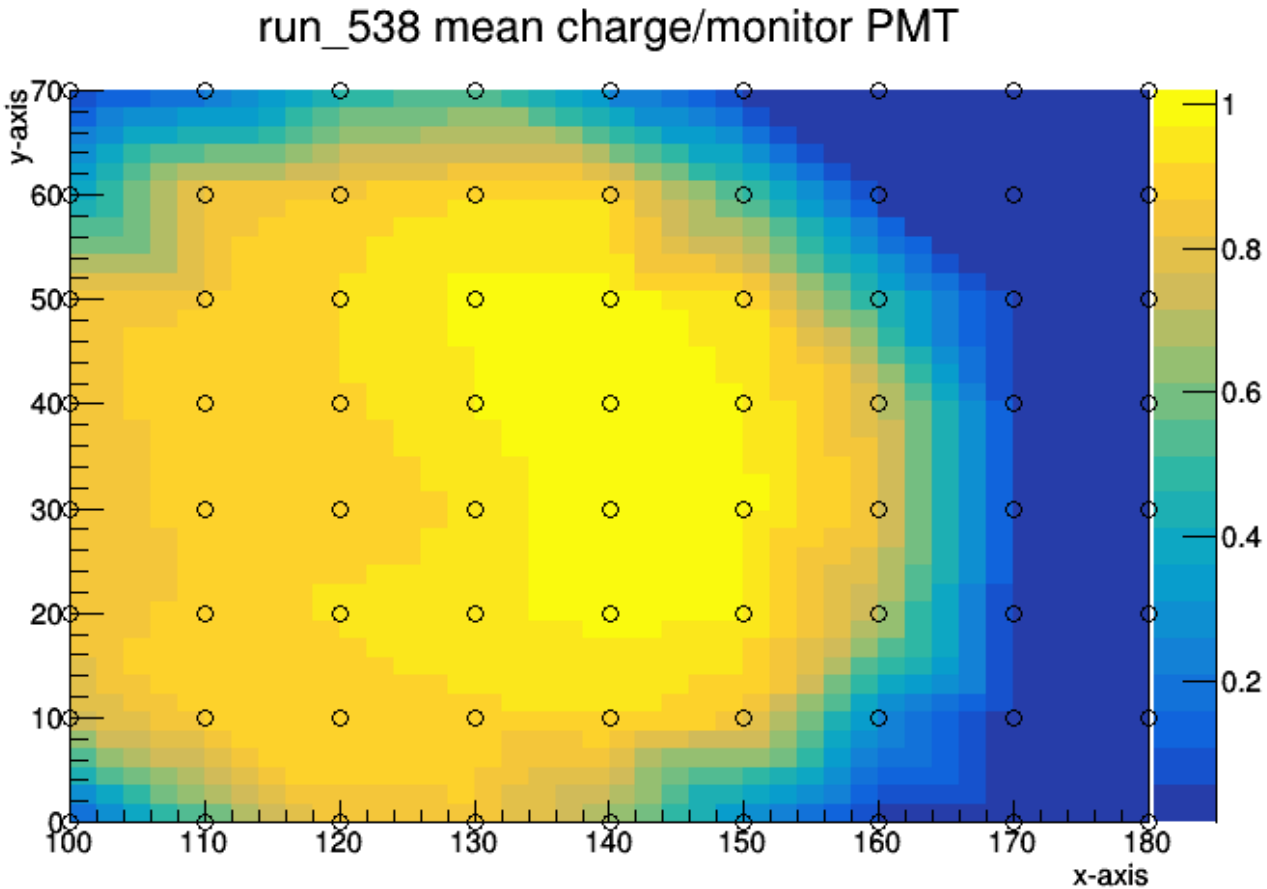
HV 1200V

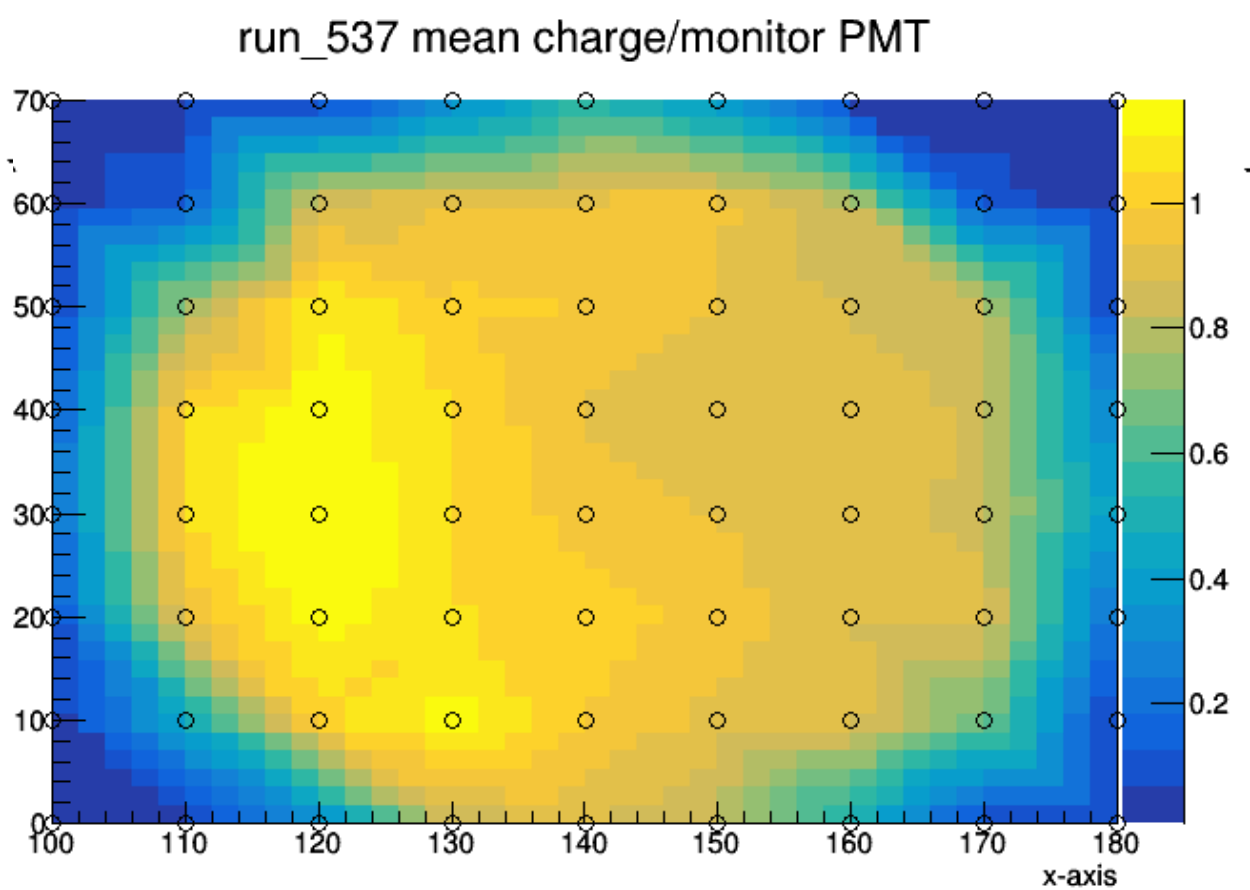
Intensity 150.0mA, 70ps

100 sec for each position

Results(BC0035)

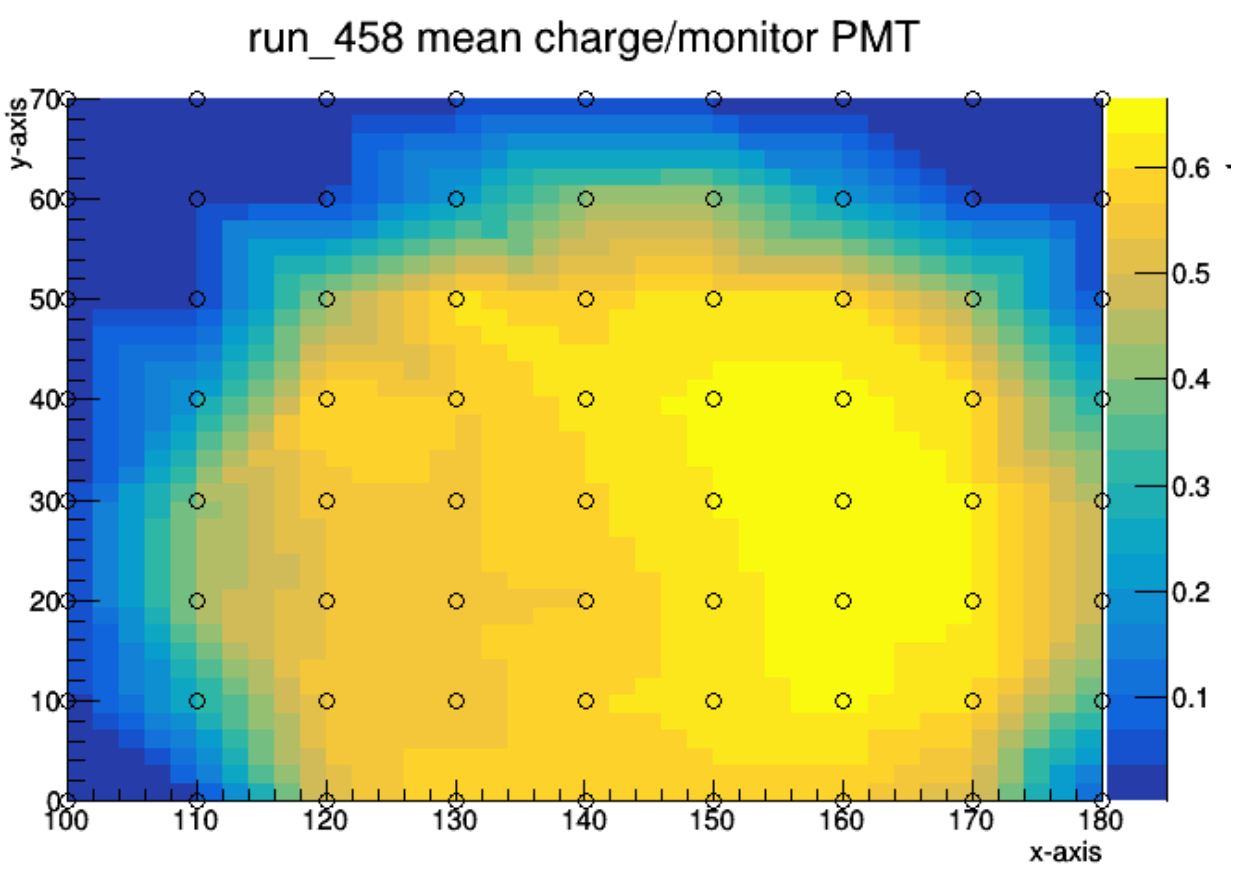
BC0035
1200 V

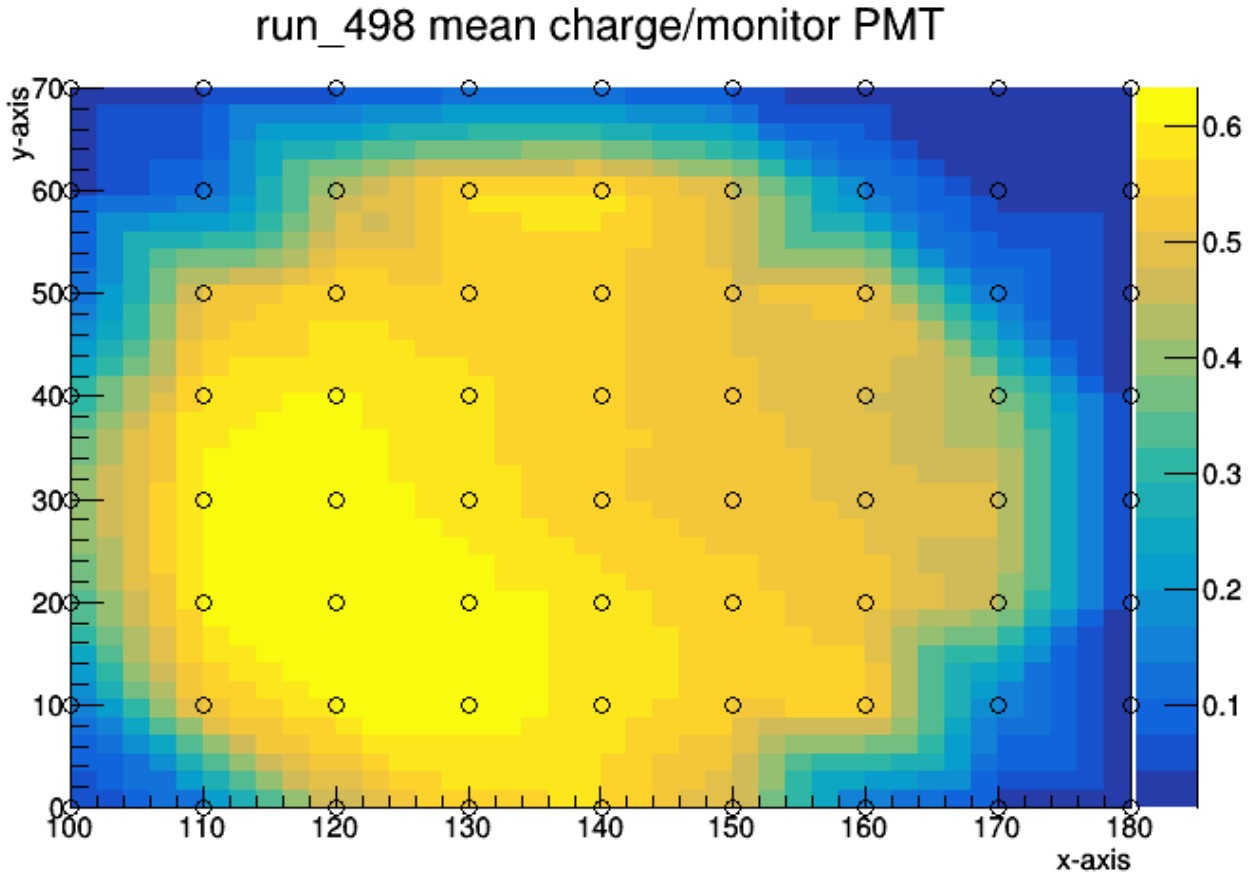




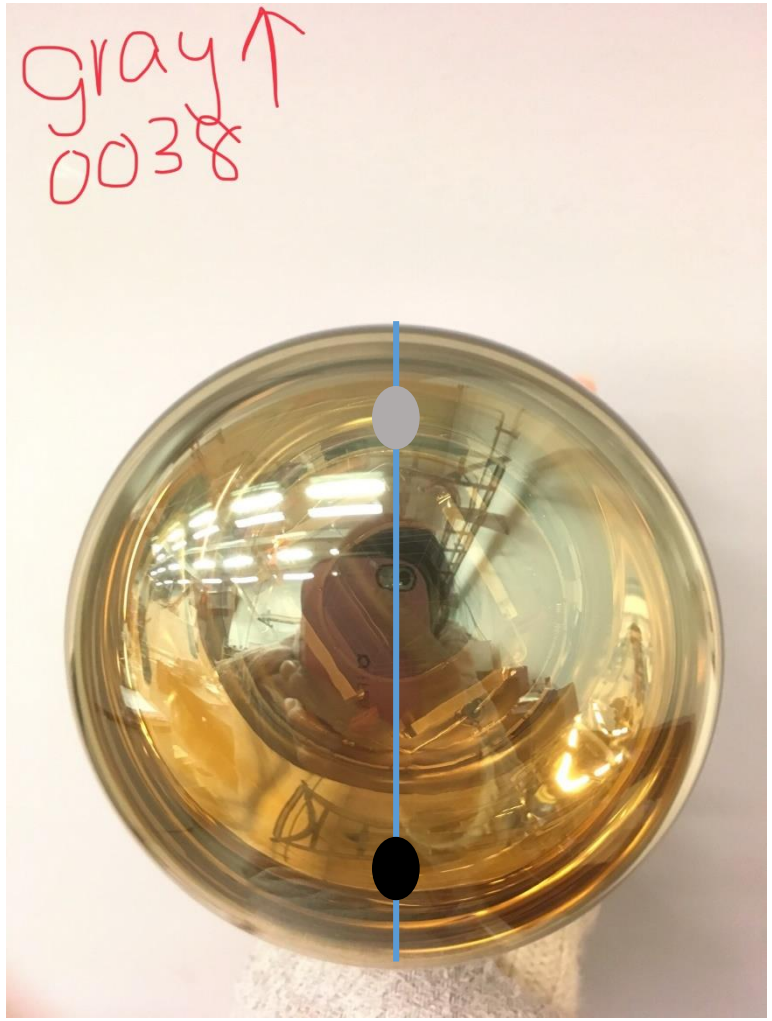
Results(BC0038)

BC0038
1200 V

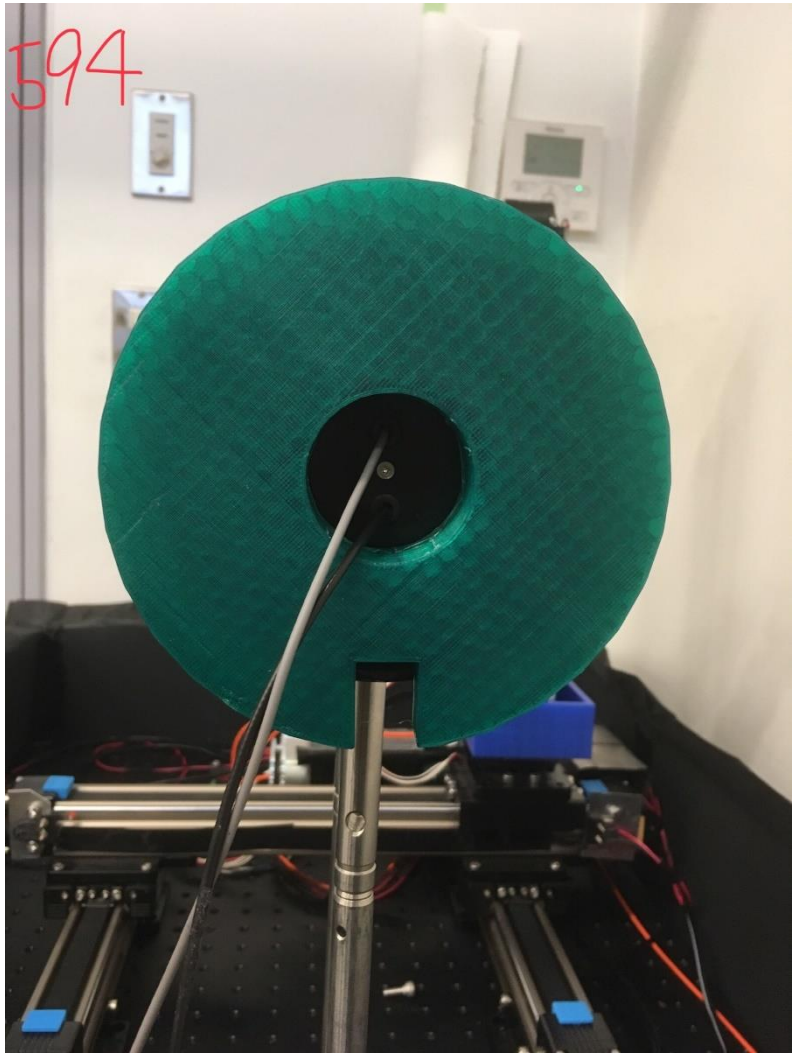


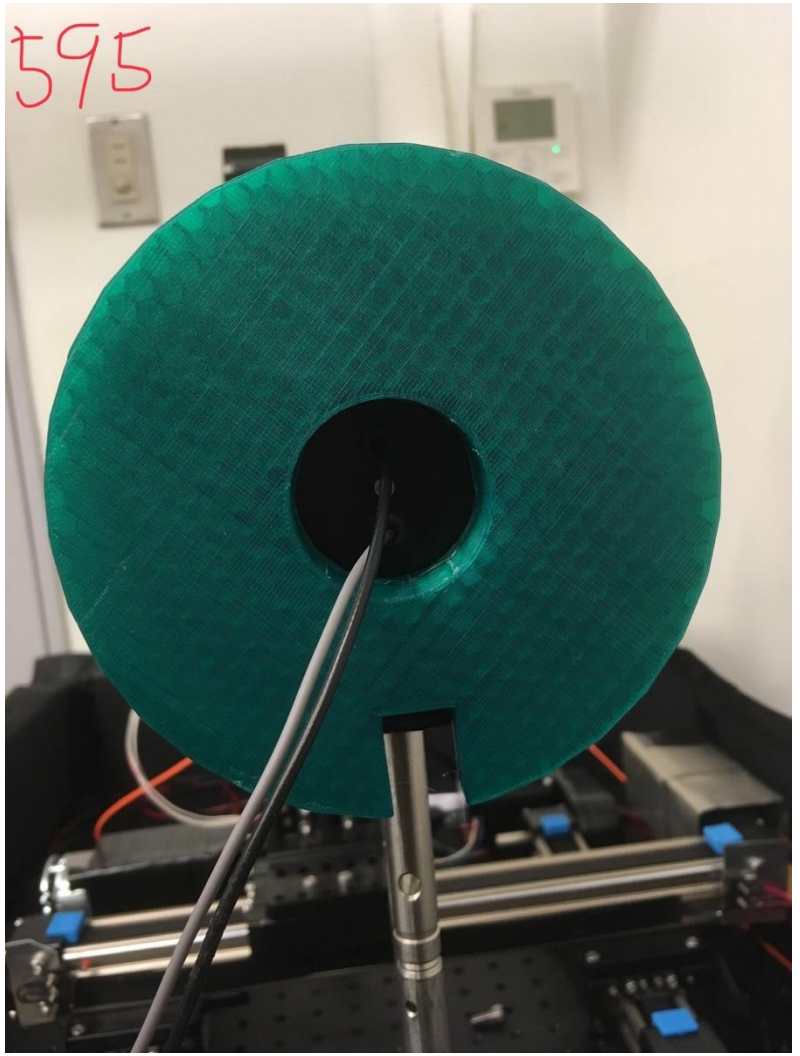


BC0038 & BC0035



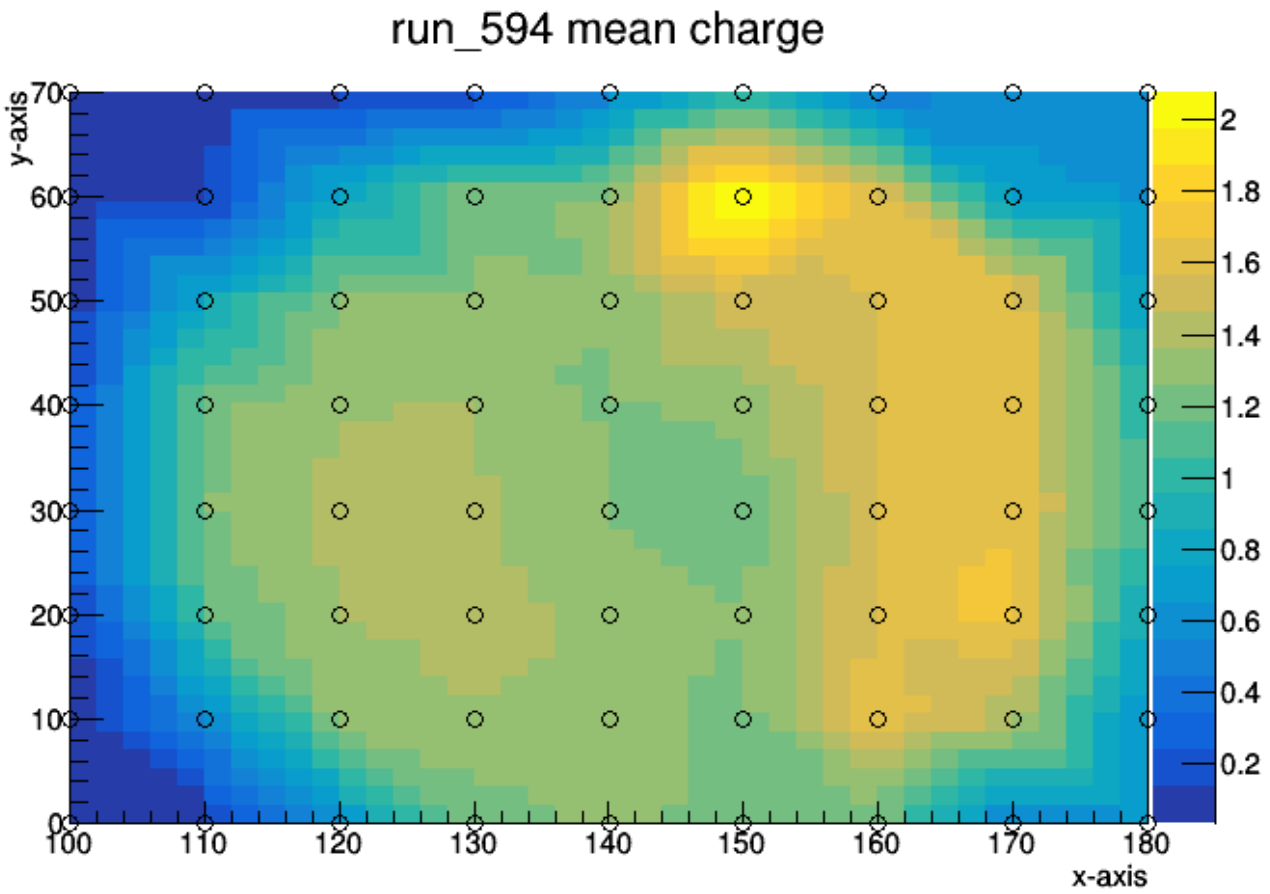
Setup

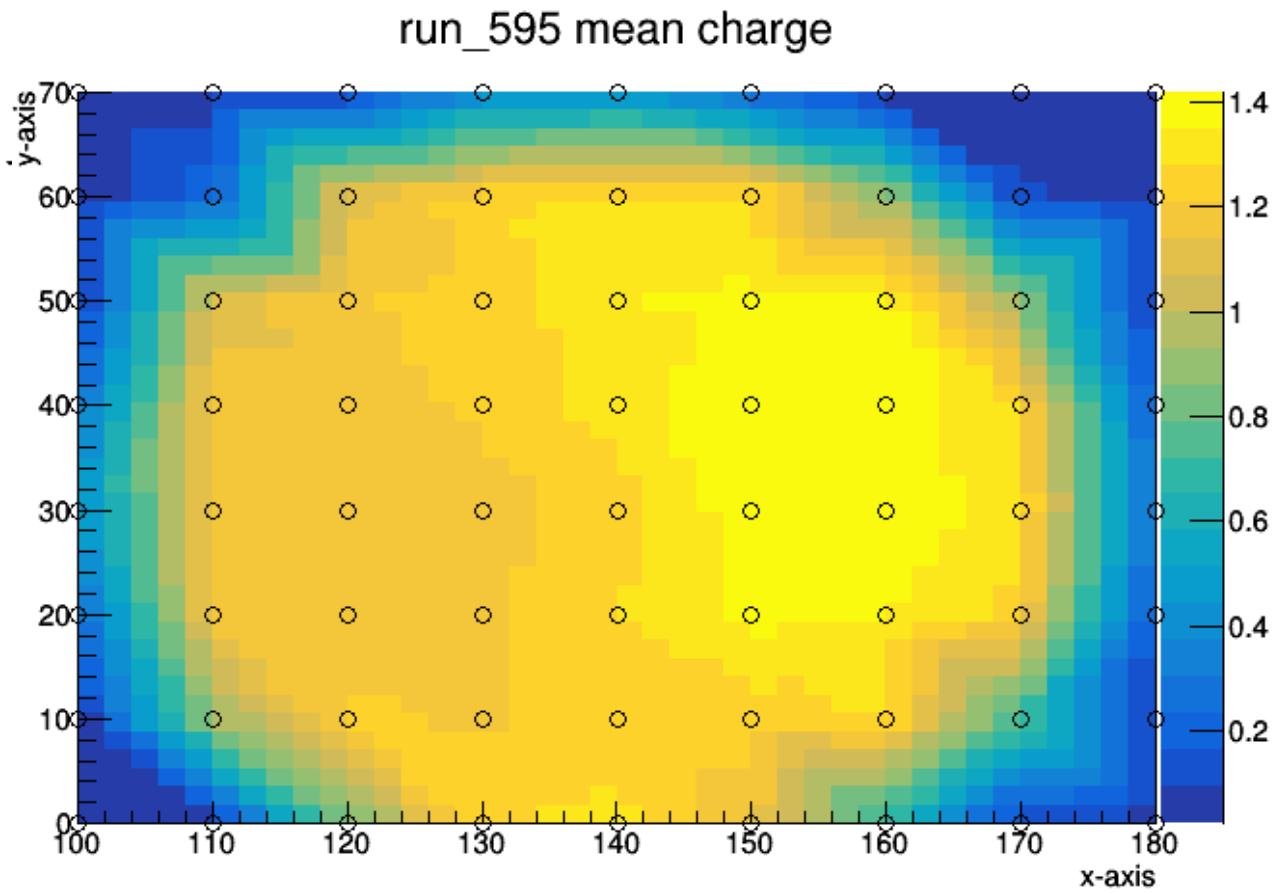




HV -1200 V
Intensity 150.0 mA, 70ps
BC0038
100 sec. for each position

Mean charge


run_594 mean charge
y-axis
x-axis
0
10
20
30
40
50
60
70
100
110
120
130
140
150
160
170
180
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2


run_595 mean charge
y-axis
x-axis
0
10
20
30
40
50
60
70
100
110
120
130
140
150
160
170
180
0.2
0.4
0.6
0.8
1
1.2
1.4

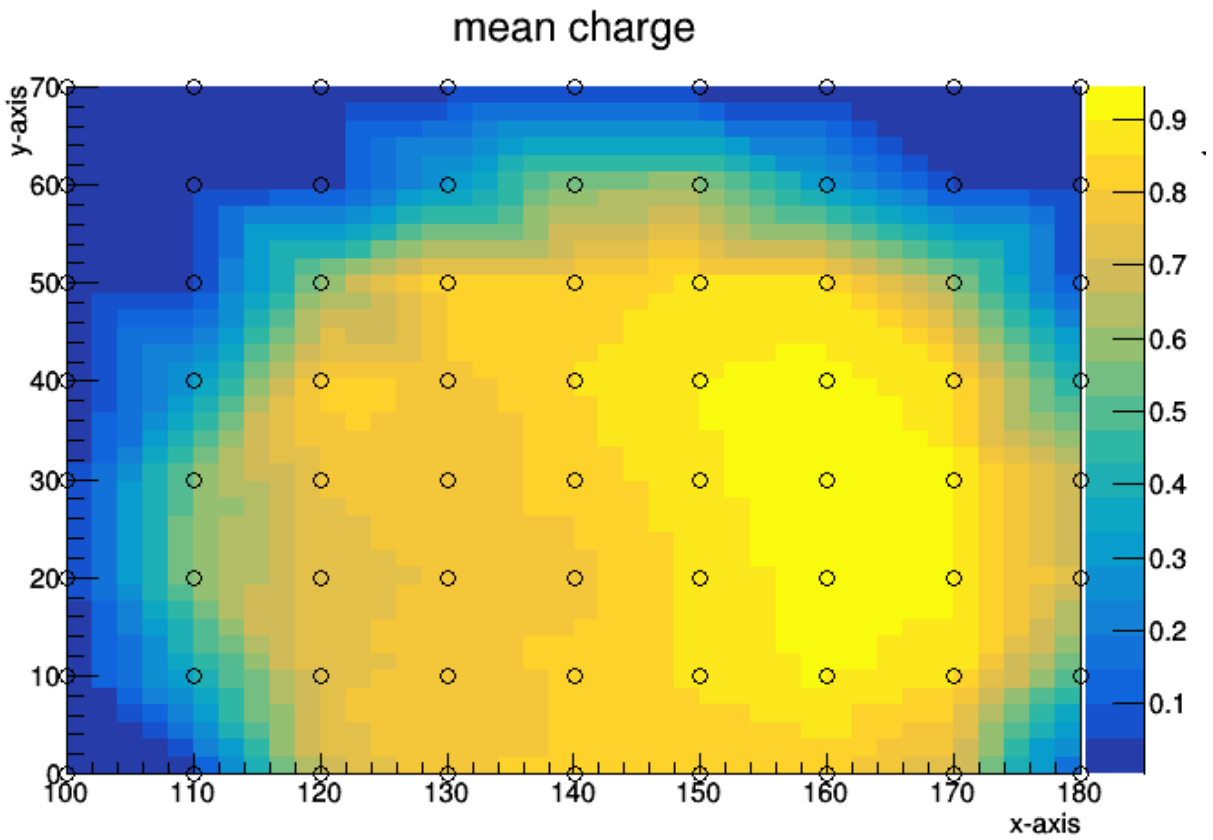
Comparison between +HV/-HV

black cable on the top
BC0038

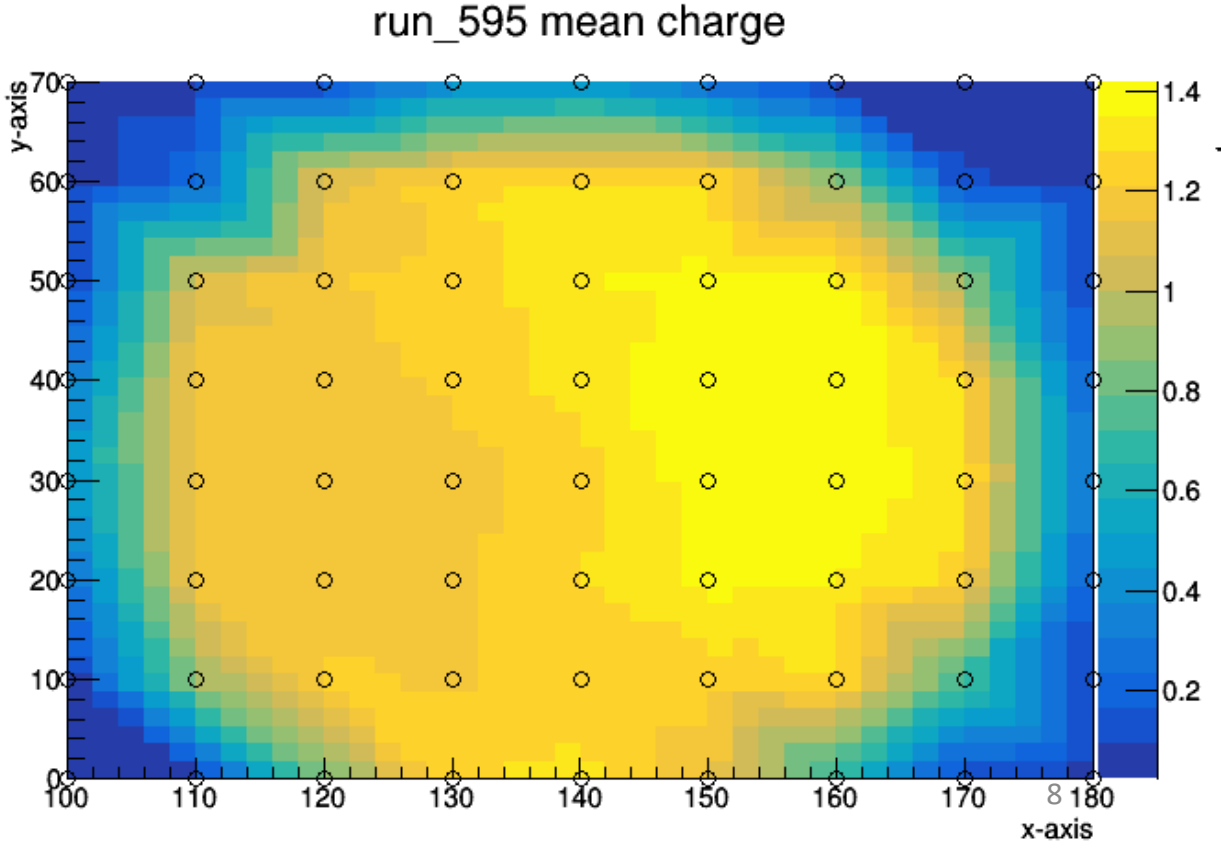
Looks similar, but the position of the PMT shifted.
Need to fix the LED cable.

-1200 V

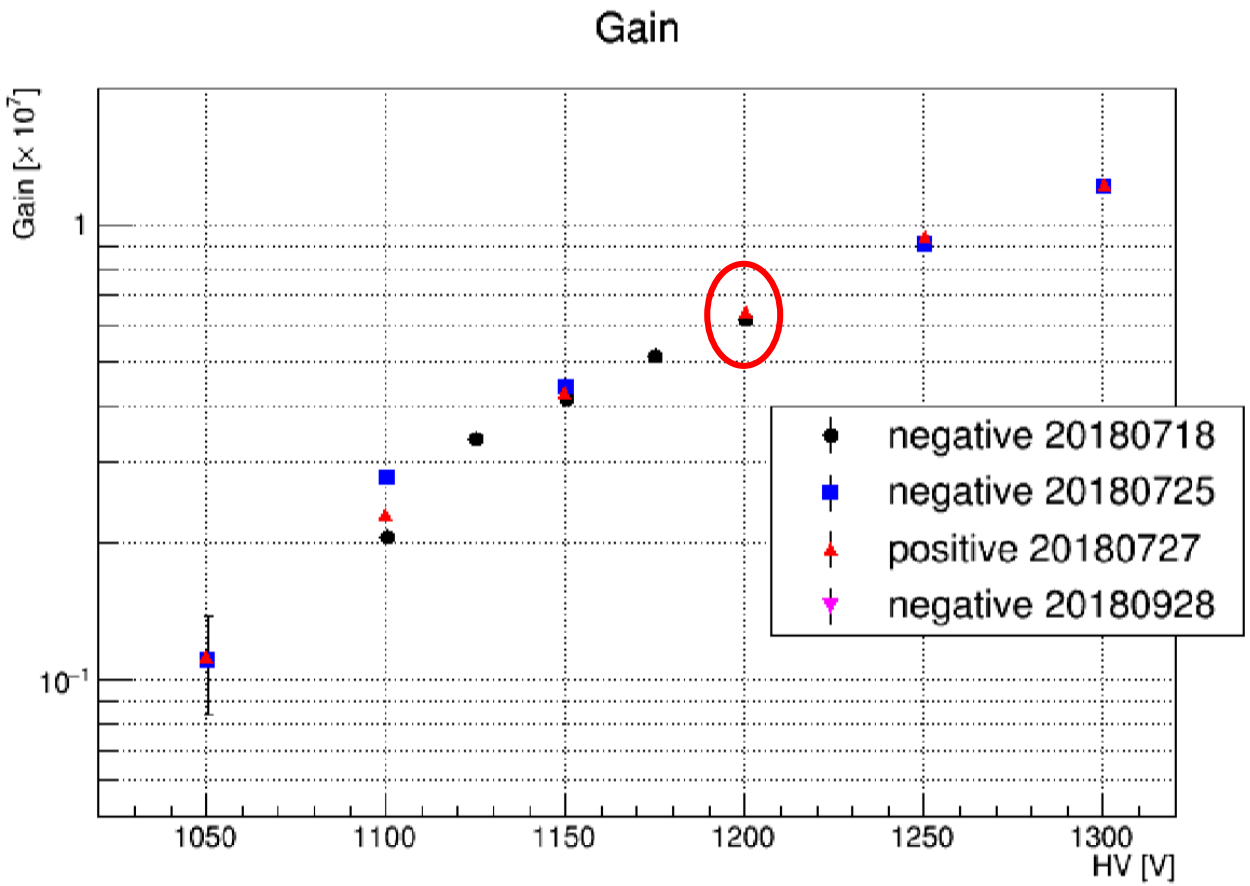
Run 458



1200 V



Gain

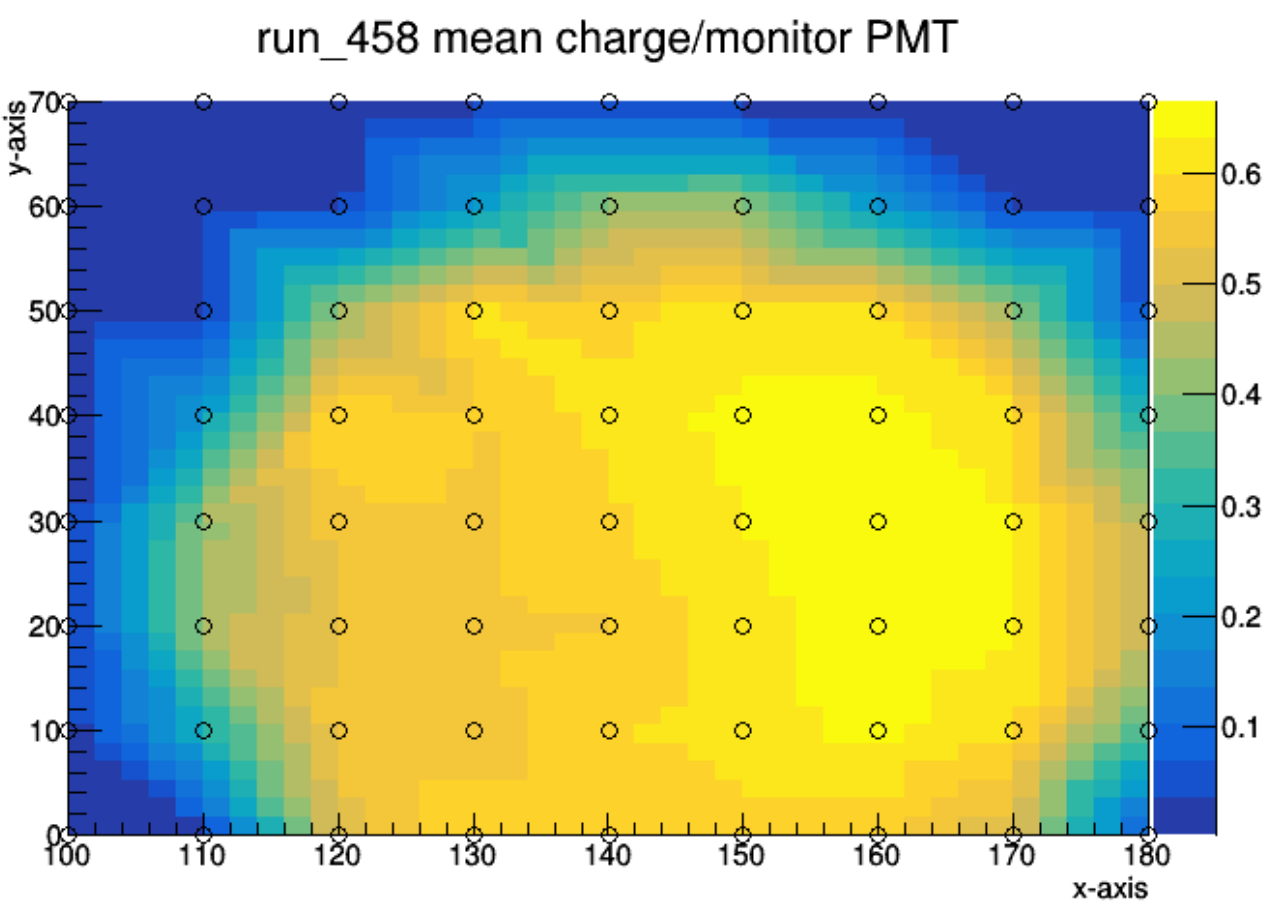


From Morikawa-san's slide(10/19/2018)

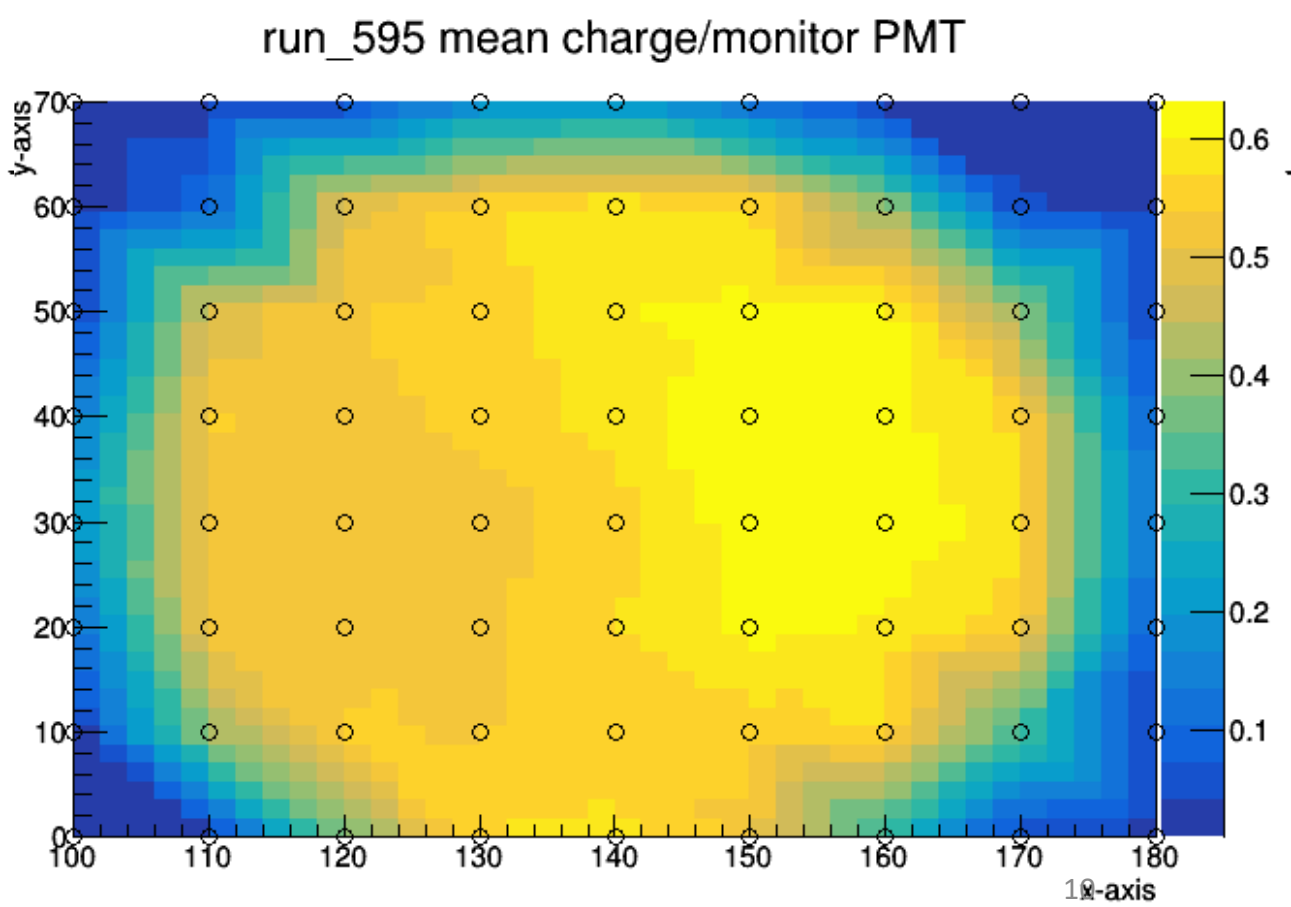
From Morikawa-san's slide, the gain should be around the same for positive and negative HV.

Mean charge/monitor PMT charge

-1200 V



1200 V

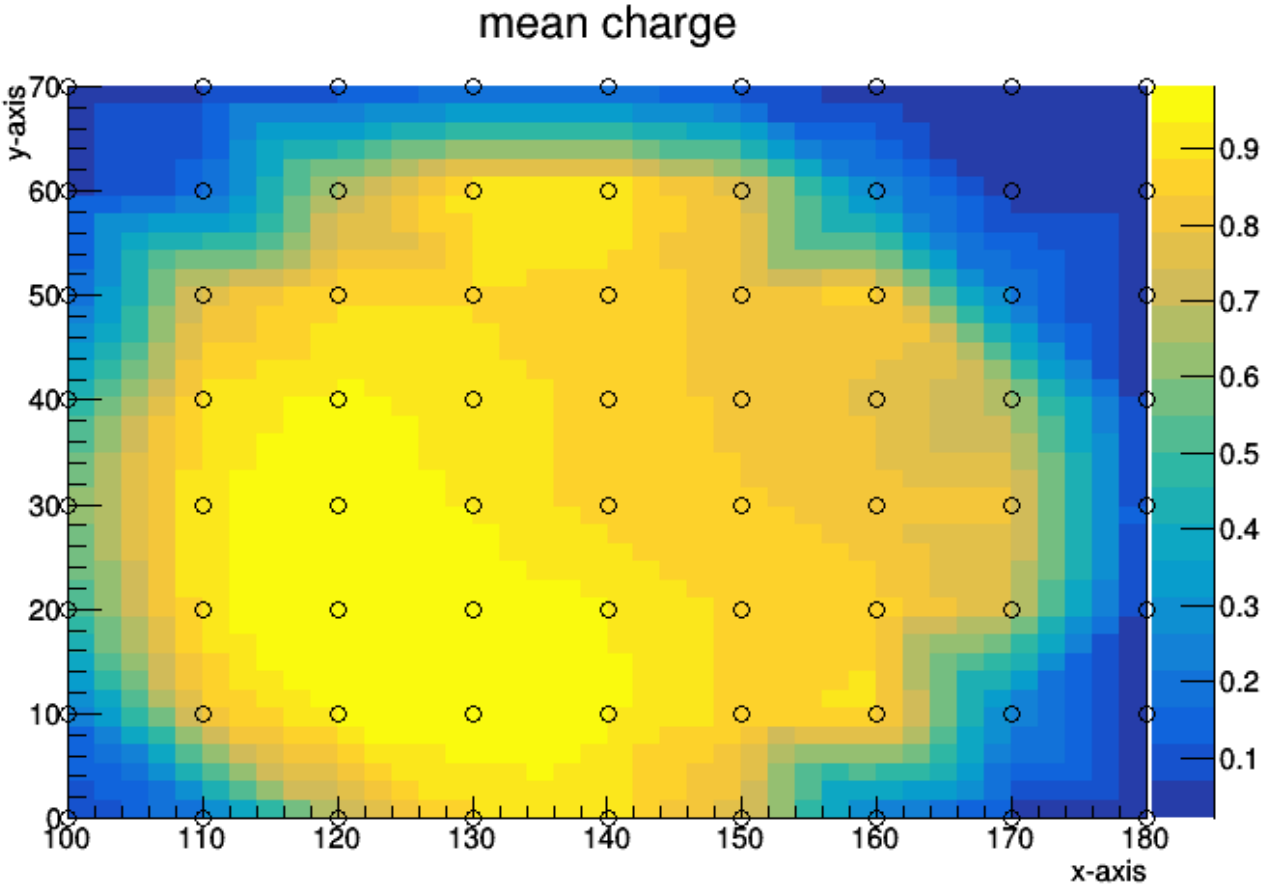


gray cable on the top
BC0038

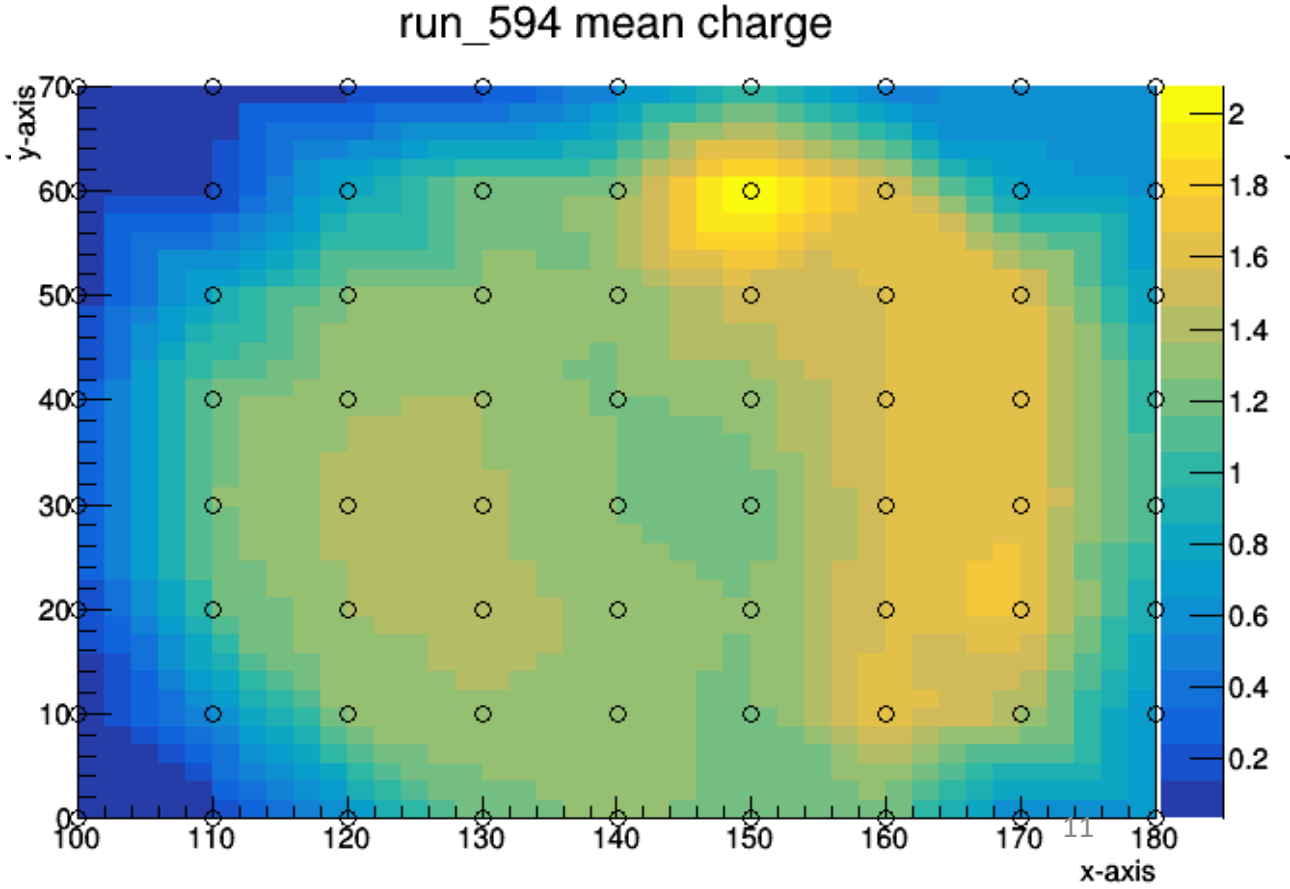
Comparison between +HV/-HV

-1200 V

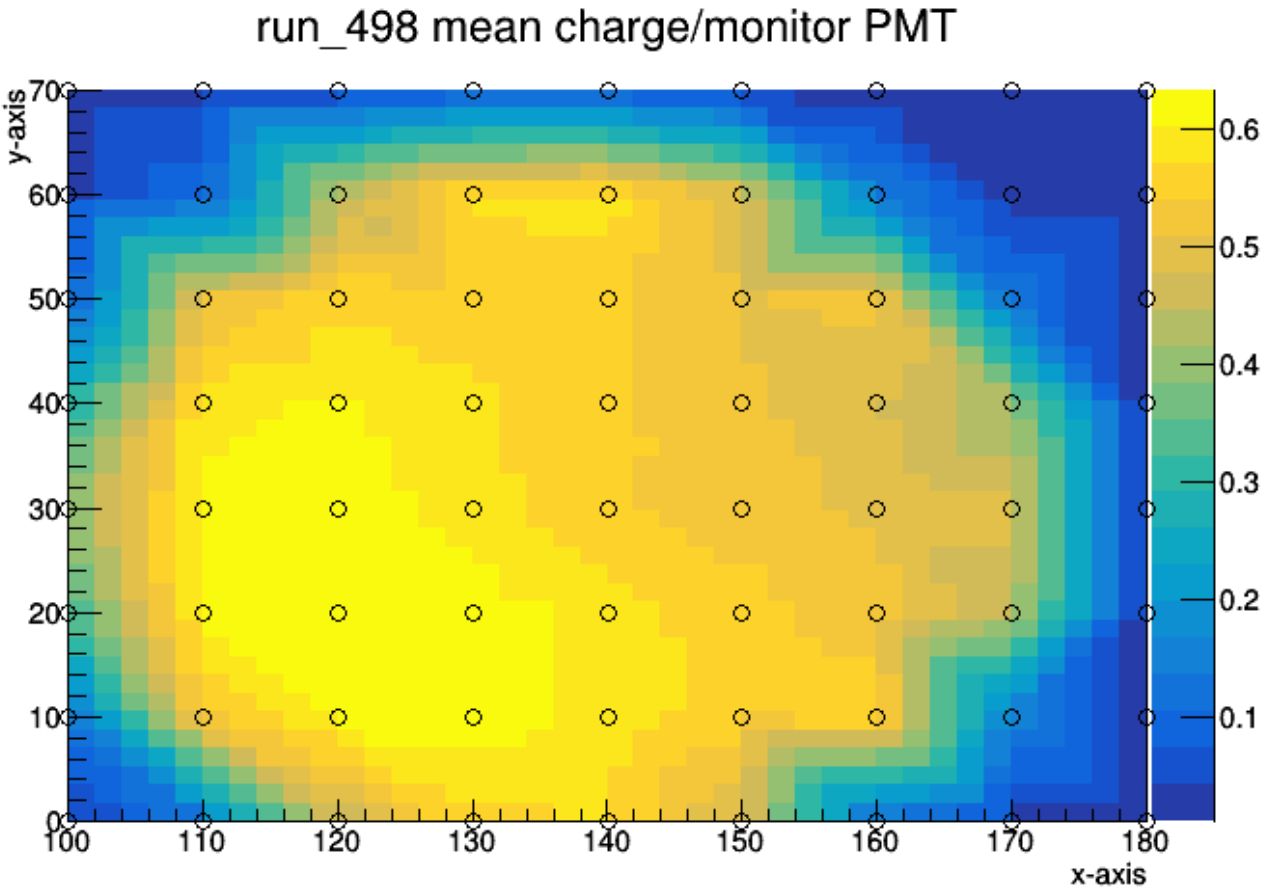
Run 498

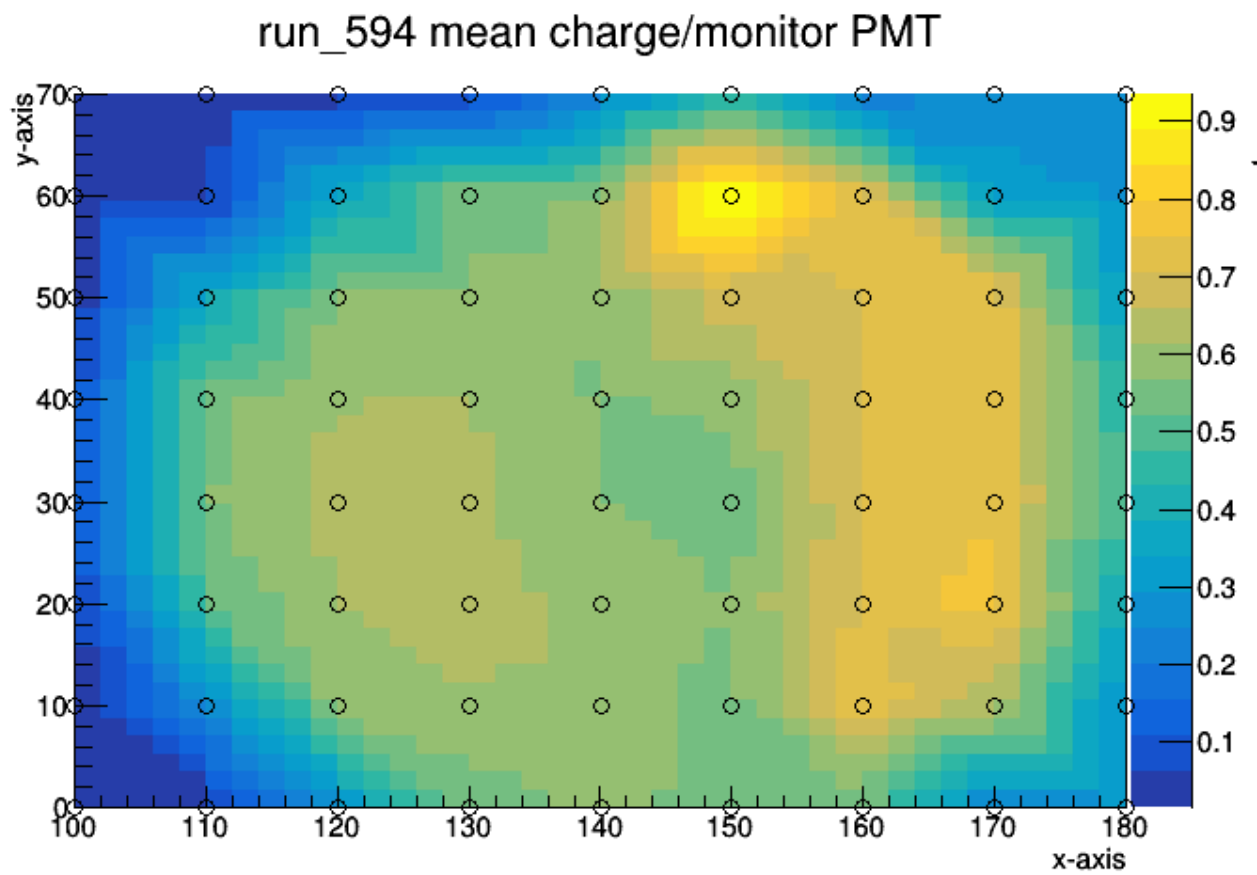


1200 V



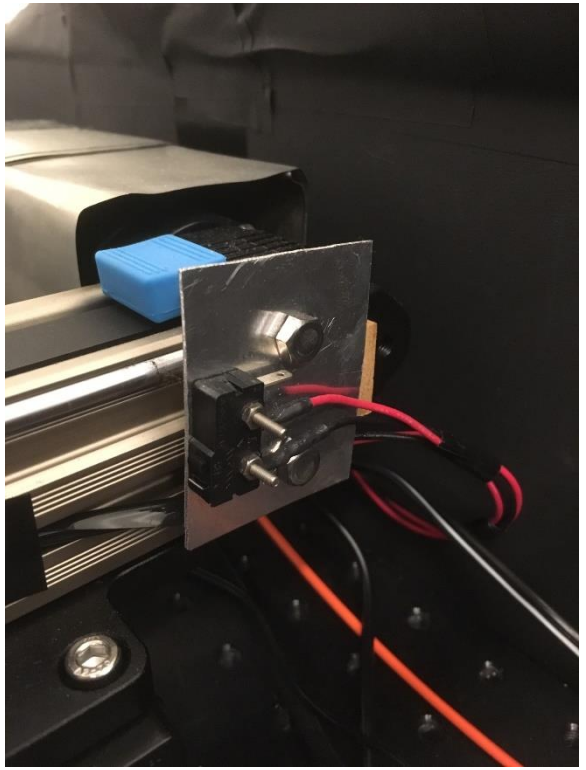
Mean charge/monitor PMT charge





To do

- Fix the LED cable.
- Work on the thesis.



- I broke the limit switch for x-axis of the motorized stand.
- A new one is coming on Dec. 27th.