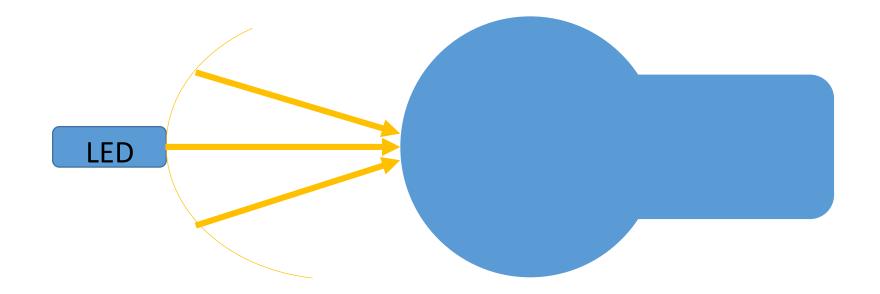
Status Update

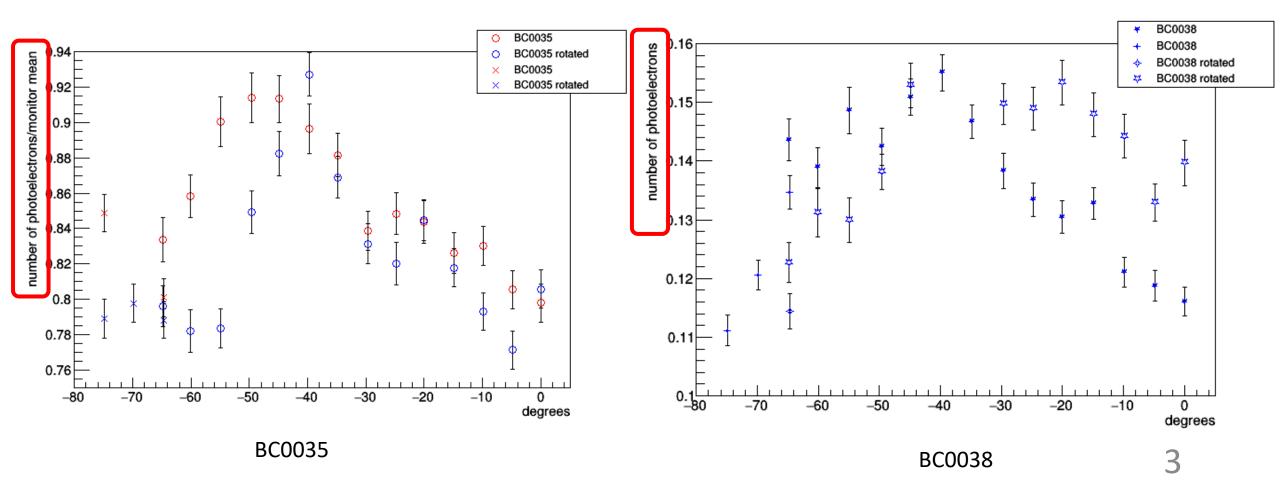
04/26/2019

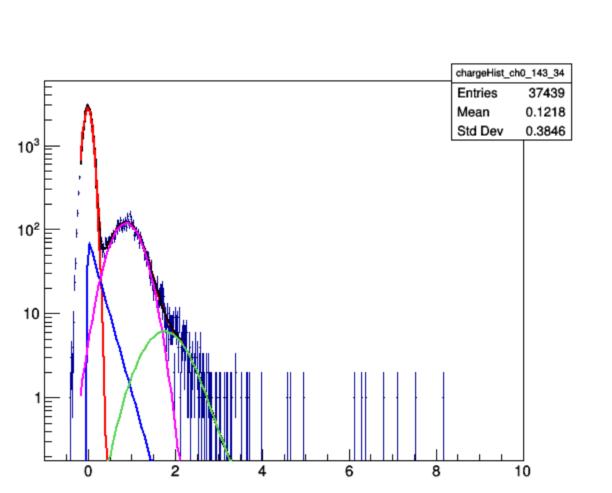
TUS Nao Izumi

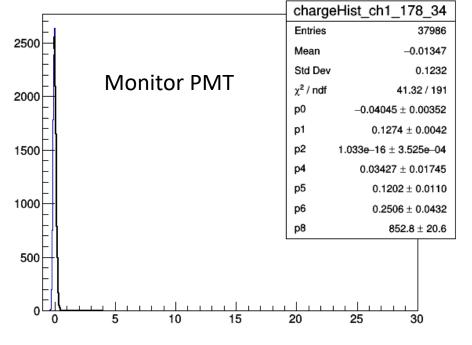
Angle measurement

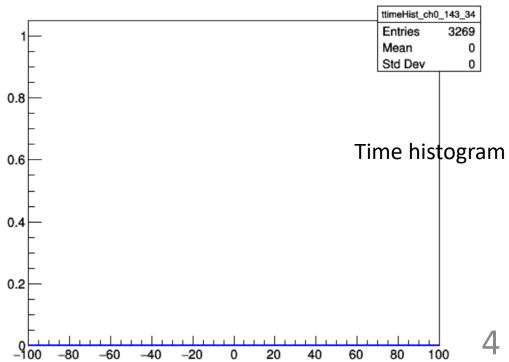


Monitor PMT was not on?

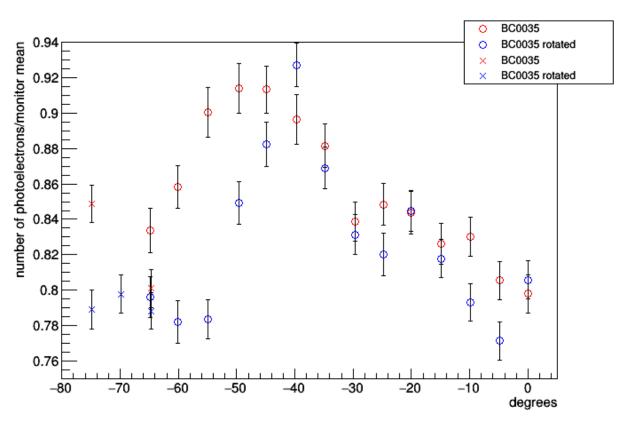


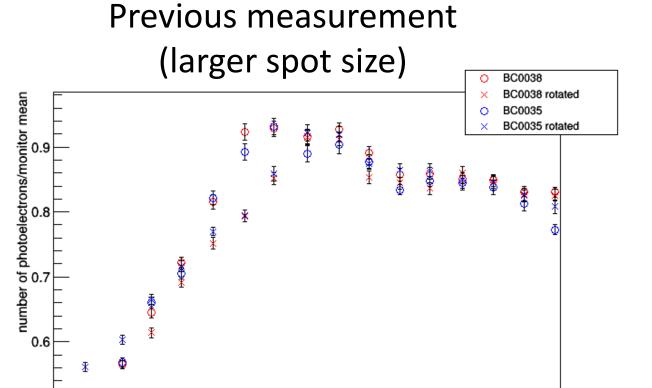






Efficiency





-30

-20

-10

0.5

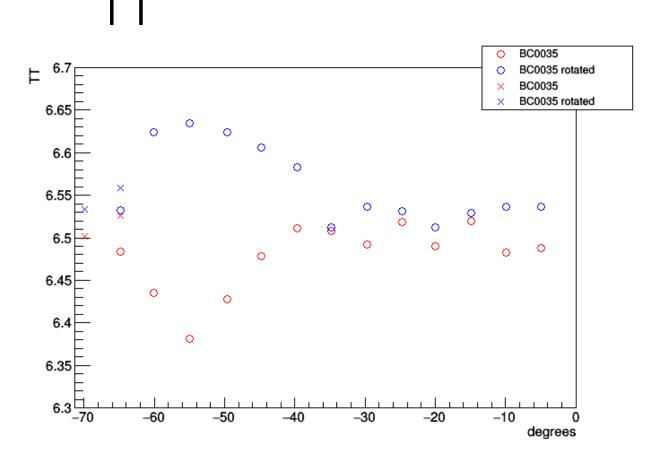
-80

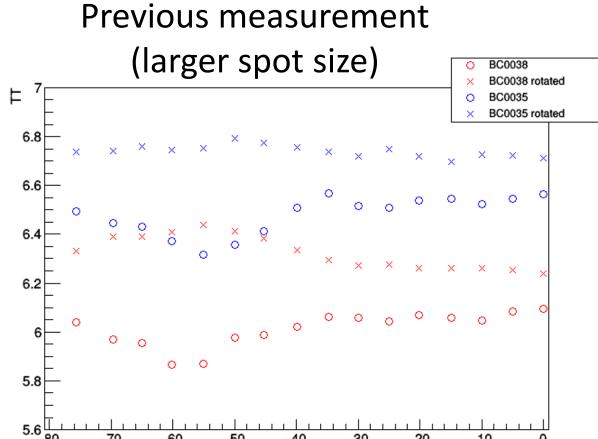
-70

-60

-50

degrees



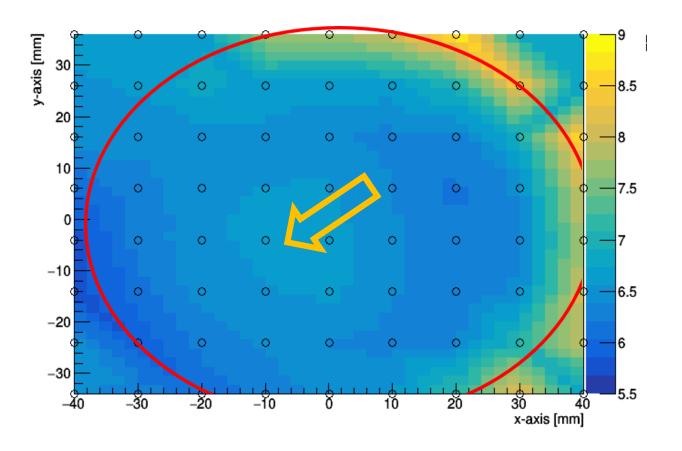


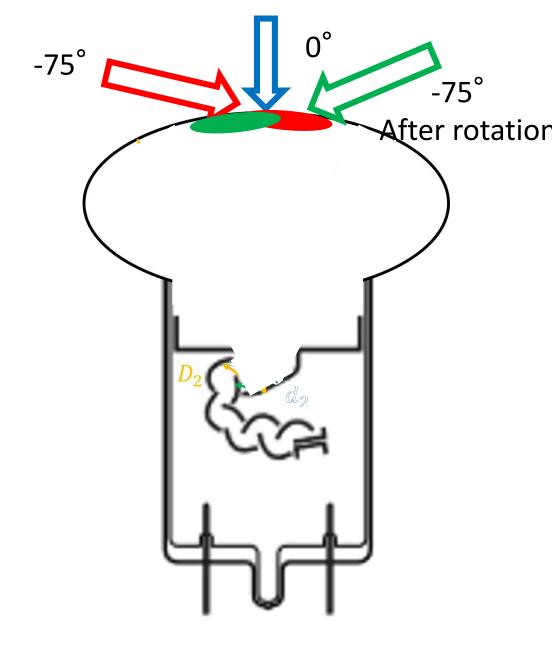
Similar trend was seen.

→angle dependency?

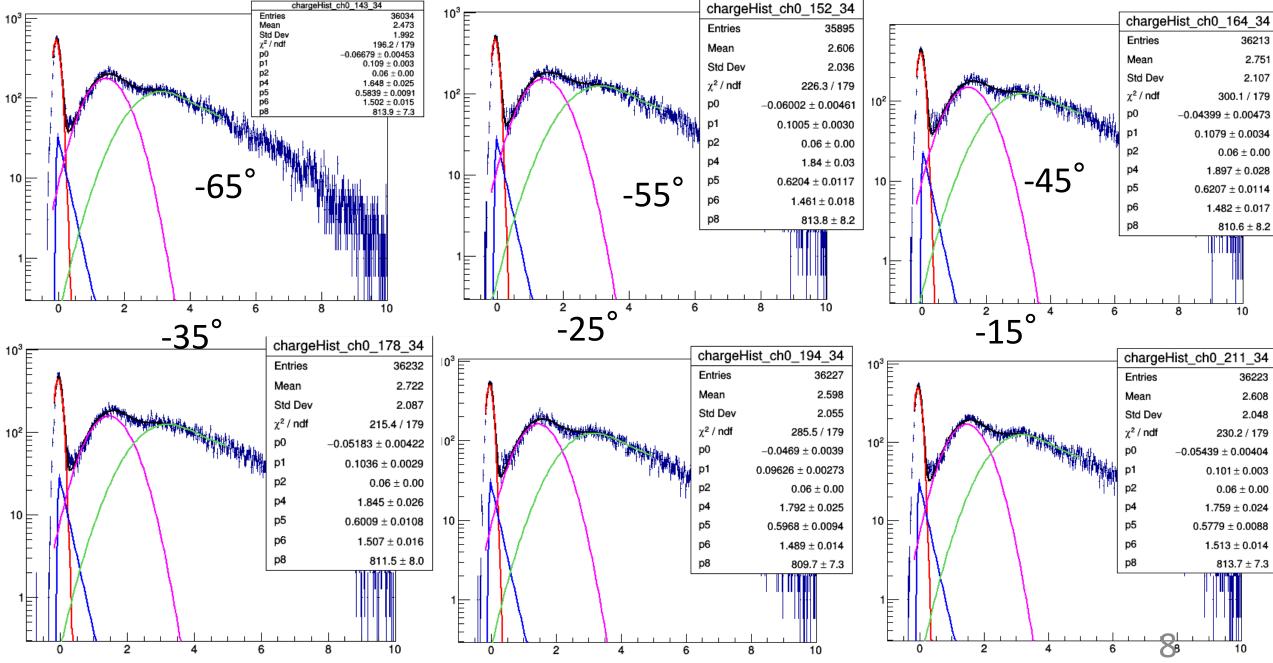
degrees

Position dependence

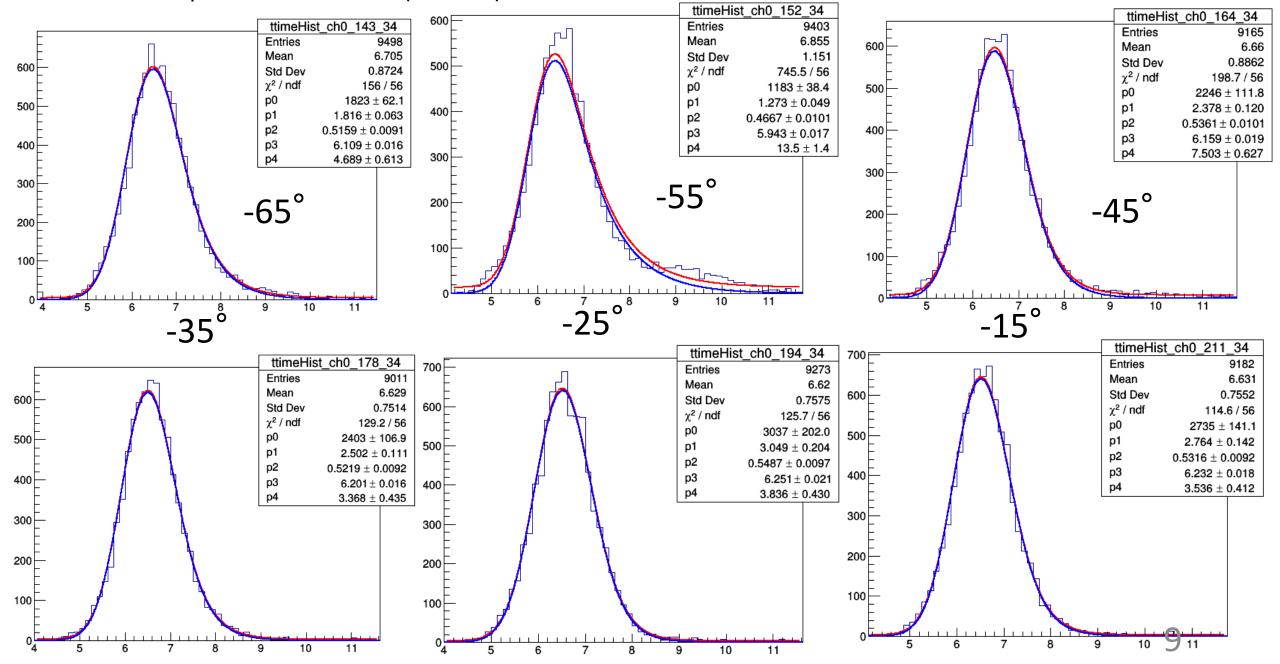




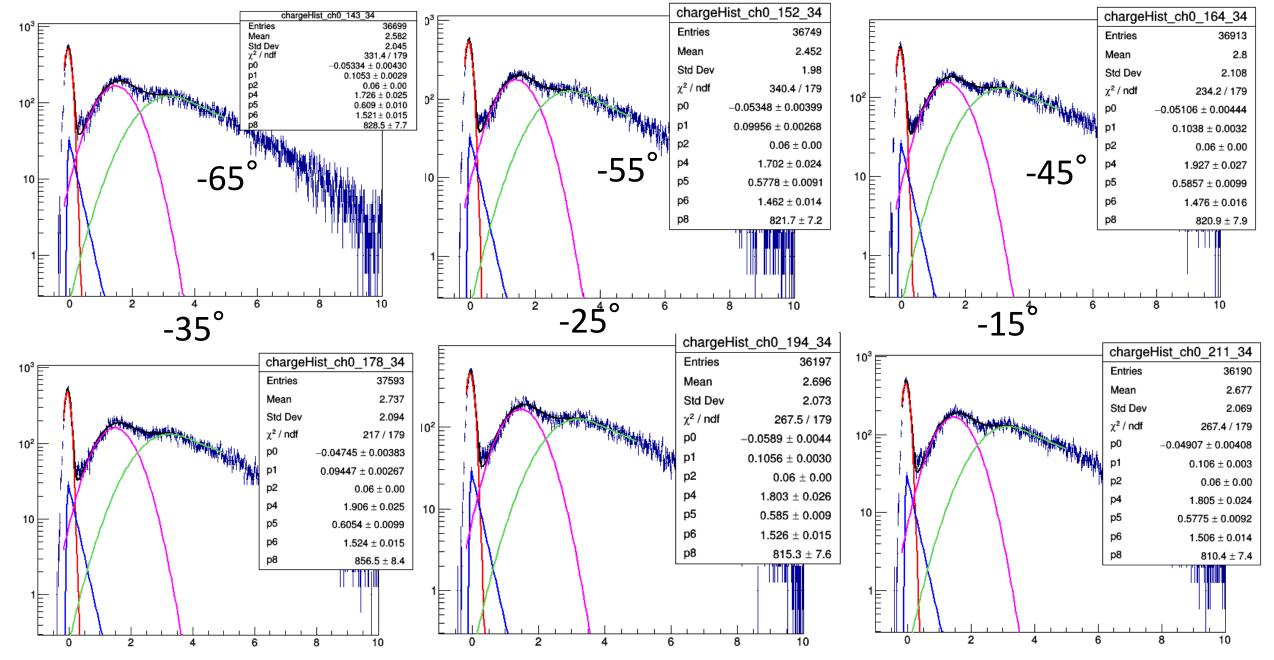
Small laser spot before rotation (BC0035) Mean



Small laser spot before rotation (BC0035)



Small laser spot after rotation (BC0035)



Small laser spot after rotation (BC0035) ttimeHist ch0 152 34 ttimeHist ch0 164 34 Entries 9692 ttimeHist ch0 143 34 **Entries** 8938 700 700 6.794 Mean **Entries** 9702 6.761 Mean Mean 6.645 0.7514 Std Dev Std Dev 0.7545 Std Dev 0.7633 χ^2 / ndf 73.75 / 56 600 - χ^2 / ndf 73.69 / 56 600 χ^2 / ndf 120.2 / 56 2278 ± 77.9 500 p0 2127 ± 79.2 p0 2736 ± 134.0 2.176 ± 0.073 2.218 ± 0.081 500 <u></u> 500 2.617 ± 0.127 0.4841 ± 0.0085 0.4925 ± 0.0091 p2 0.543 ± 0.009 6.308 ± 0.014 6.281 ± 0.015 6.232 ± 0.018 400 2.467 ± 0.359 2.886 ± 0.403 400 3.455 ± 0.412 300 -65° 300 ⊢ 300 200 200 100 100 100 -25° 10 8 10 11 10 11 ttimeHist ch0 211 34 ttimeHist ch0 194 34 ttimeHist ch0 178 34 **Entries** 9055 9054 **Entries Entries** 6.637 Mean Mean 6.64 Mean 6.623 600 Std Dev 0.7519 Std Dev 0.7504 Std Dev 0.7529 600 χ^2 / ndf 97.46 / 56 χ^2 / ndf 84.79 / 56 χ^2 / ndf 94.12 / 56 2619 ± 131.6 2626 ± 133.8 p0 2663 ± 131.2 2.651 ± 0.132 2.682 ± 0.136 p1 2.65 ± 0.13 0.5463 ± 0.0095 0.541 ± 0.010 p2 0.5475 ± 0.0096 6.231 ± 0.018 6.238 ± 0.018 рЗ 6.216 ± 0.018 2.848 ± 0.381 2.937 ± 0.384 2.729 ± 0.362 300 200 200 100 100 10 10 11

