

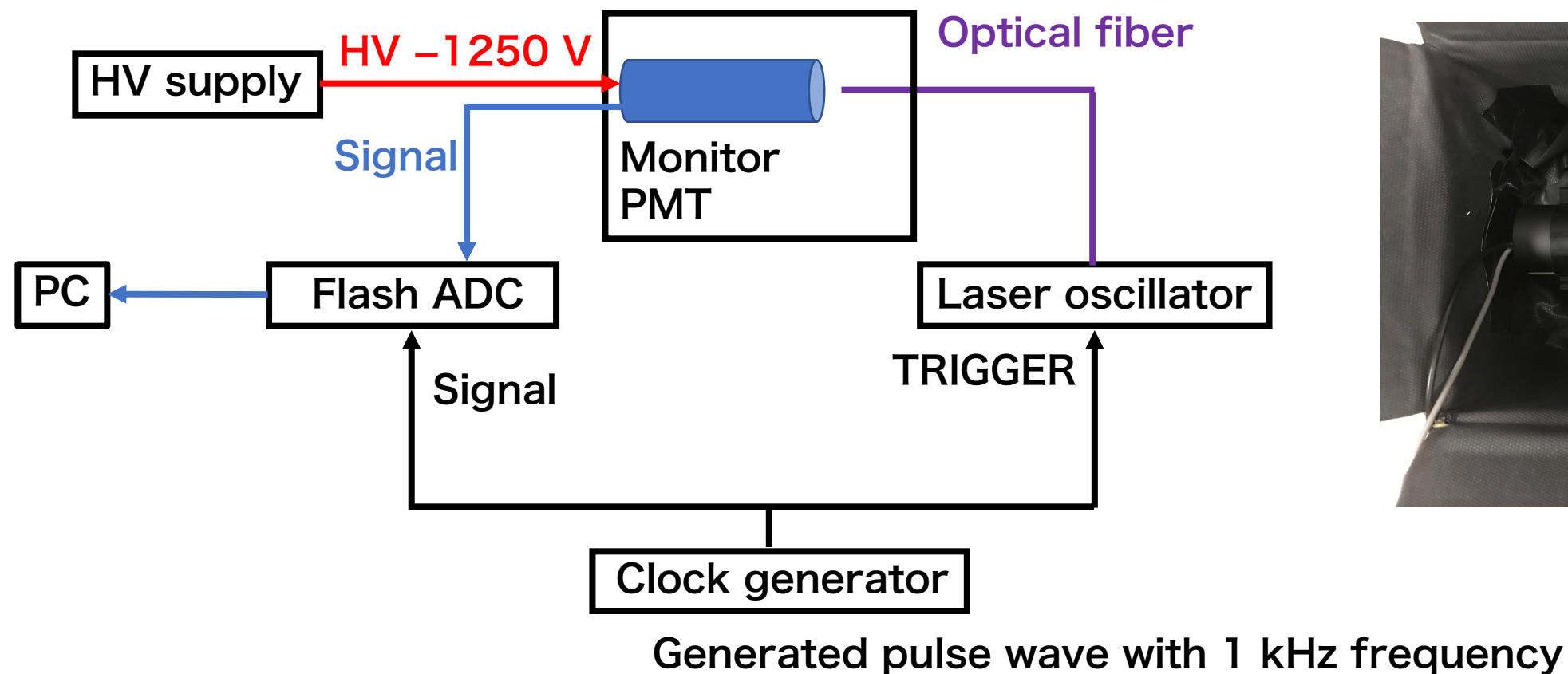
Status report

11/29/2019

Michitaka Inomoto

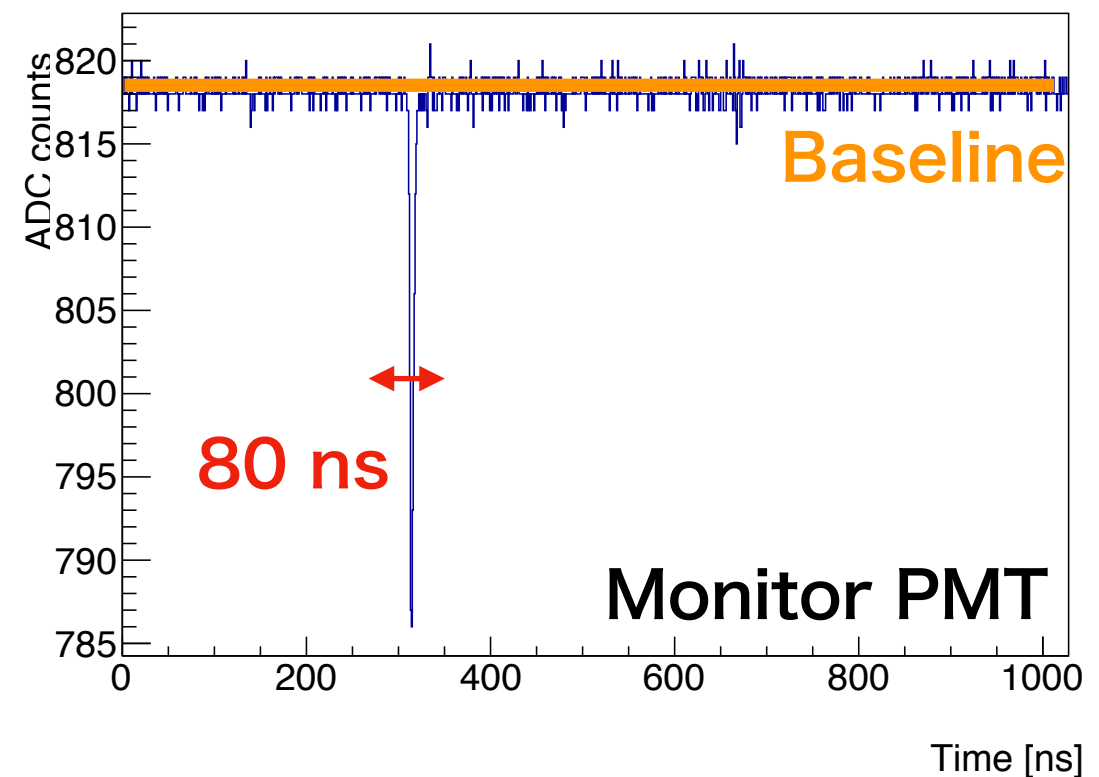
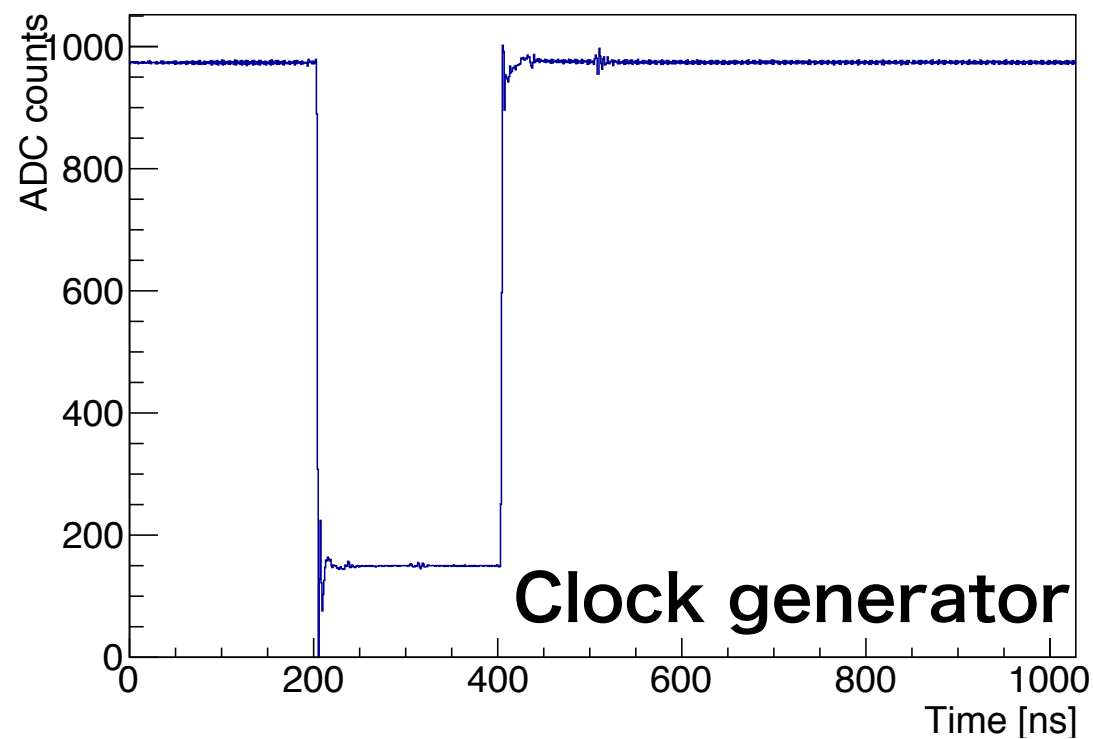
Monitor PMT

- I used stronger light than last time.
- I checked the monitor PMT's stability.



Monitor PMT

- I checked the monitor PMT's signal.
- I used the clock generator's signal as the trigger.



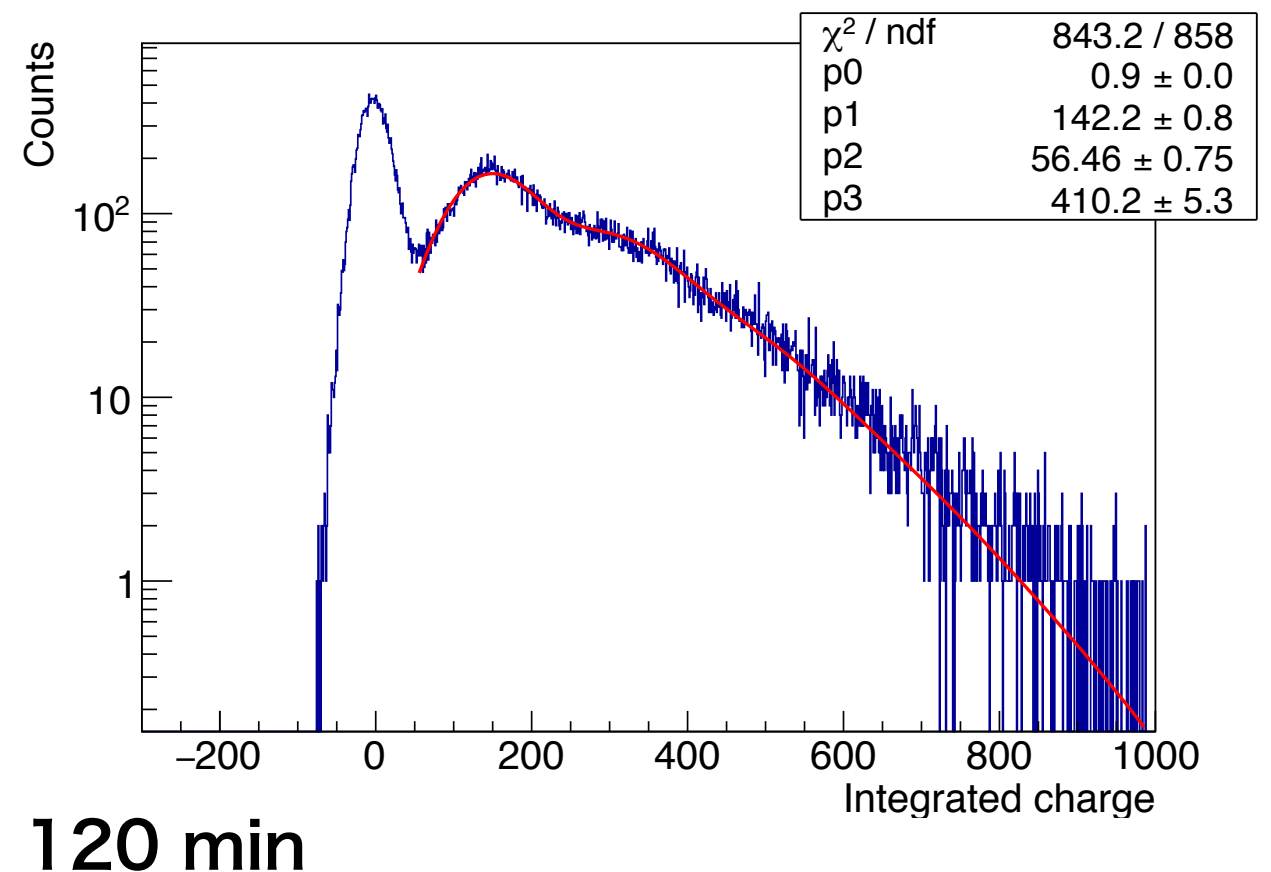
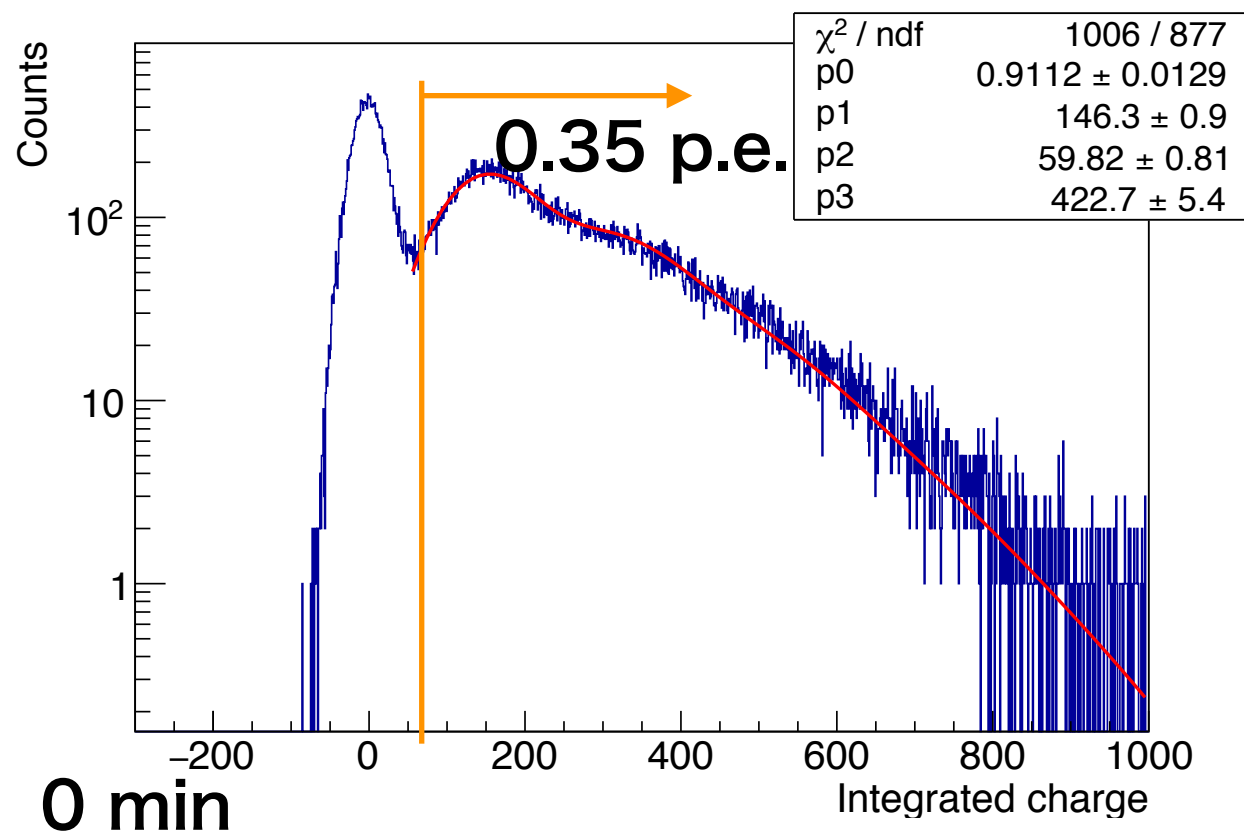
Monitor PMT

- I checked the integrated charge distribution.
- I checked the relative efficiency and the gain.

Relative efficiency is defined as follows:

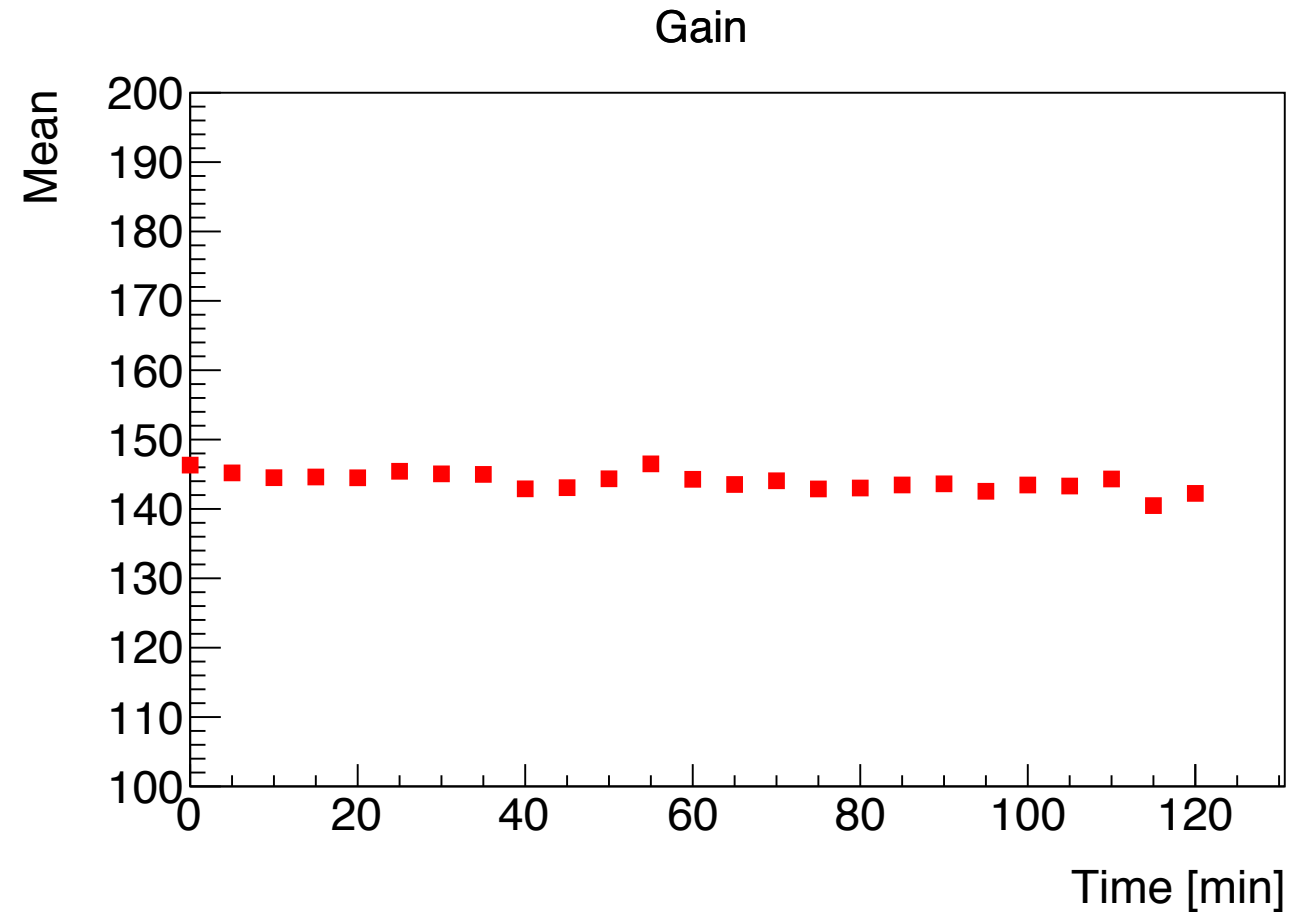
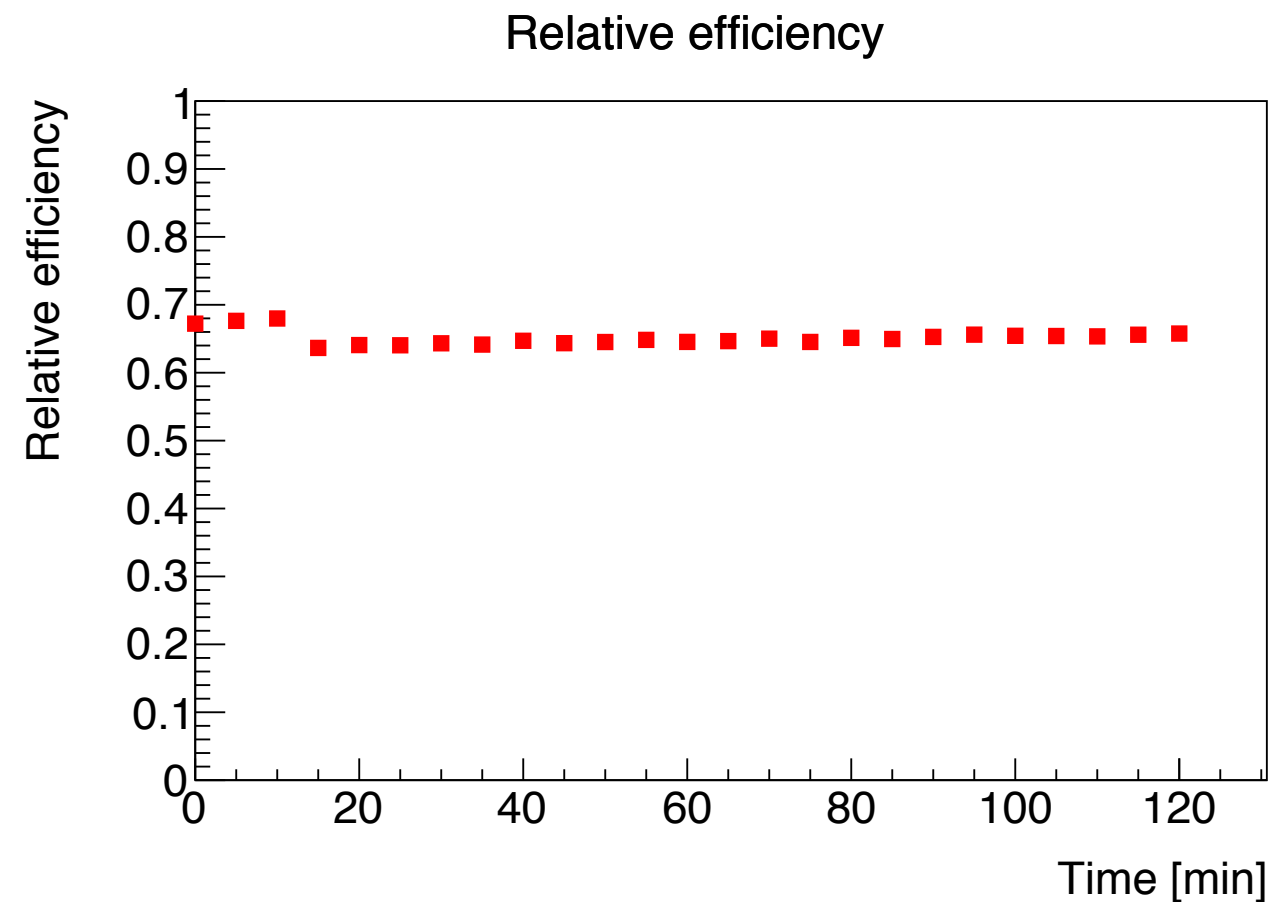
$$\text{Relative efficiency} = \frac{\text{the number of PMT's signals}}{\text{the number of signals from clock generator}}$$

“the number of PMT's signals” is the counts above the threshold.



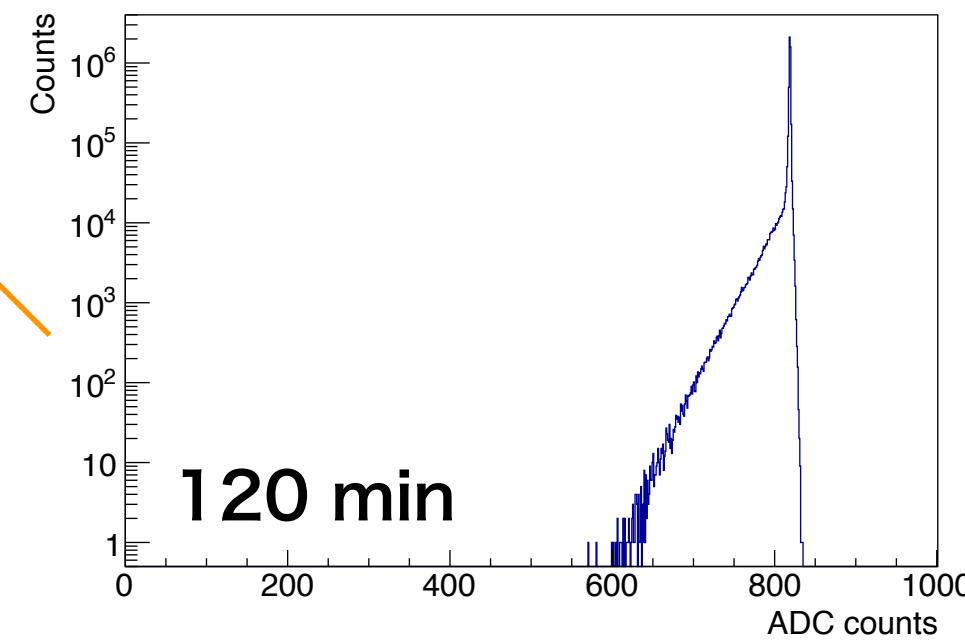
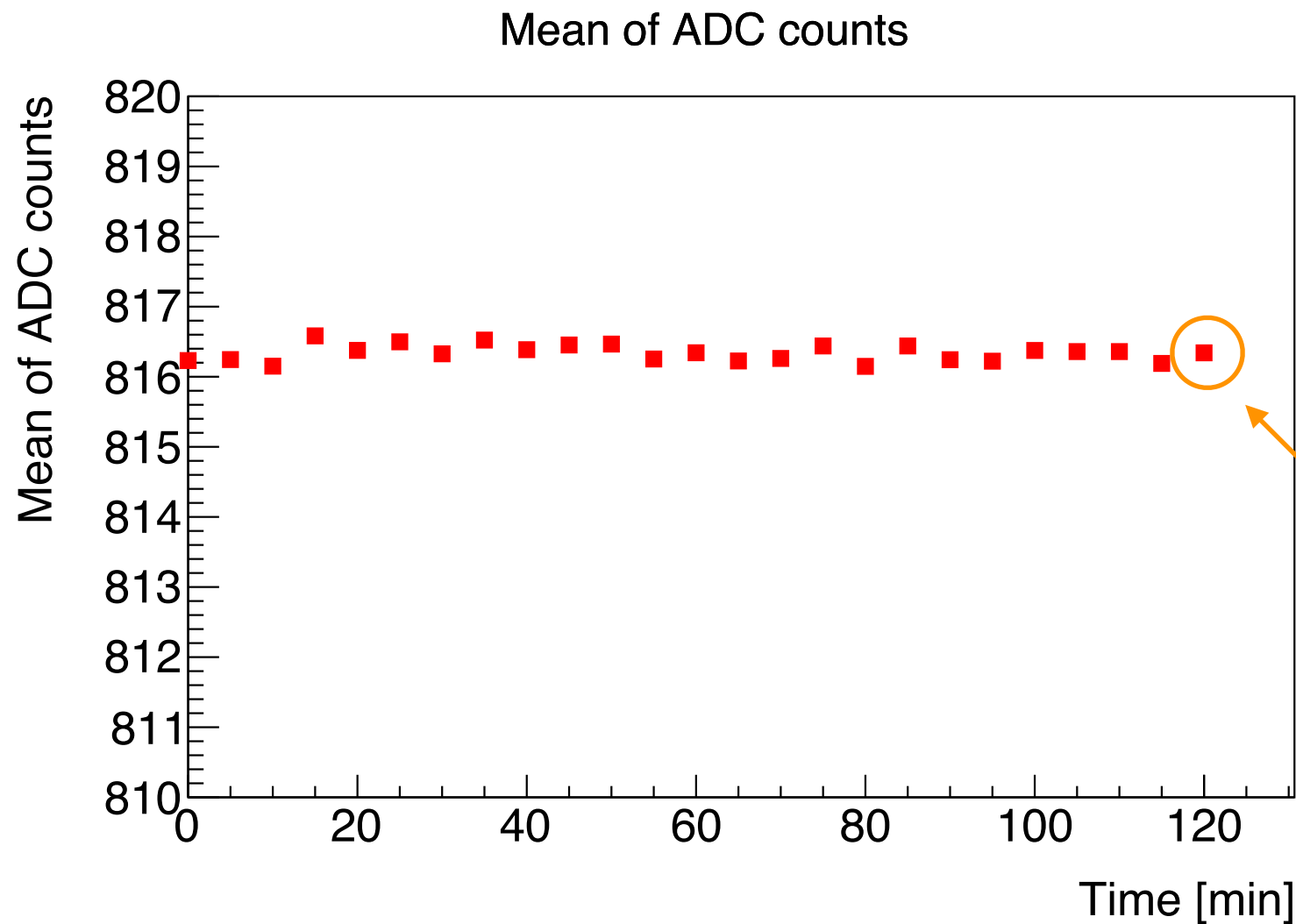
Monitor PMT

- The variation of the relative efficiency and the gain were about 1%
- The relative efficiency and the gain were almost stable.

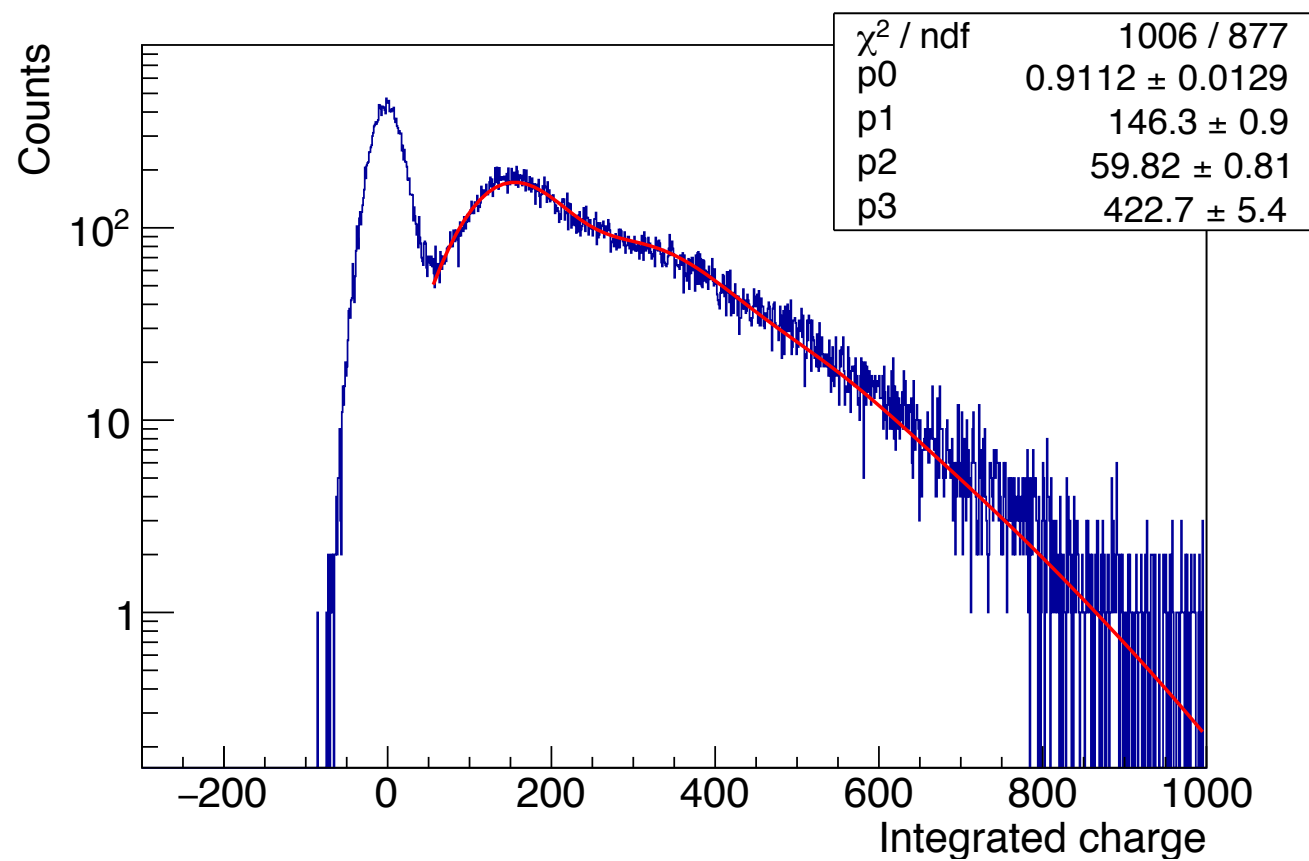


Monitor PMT

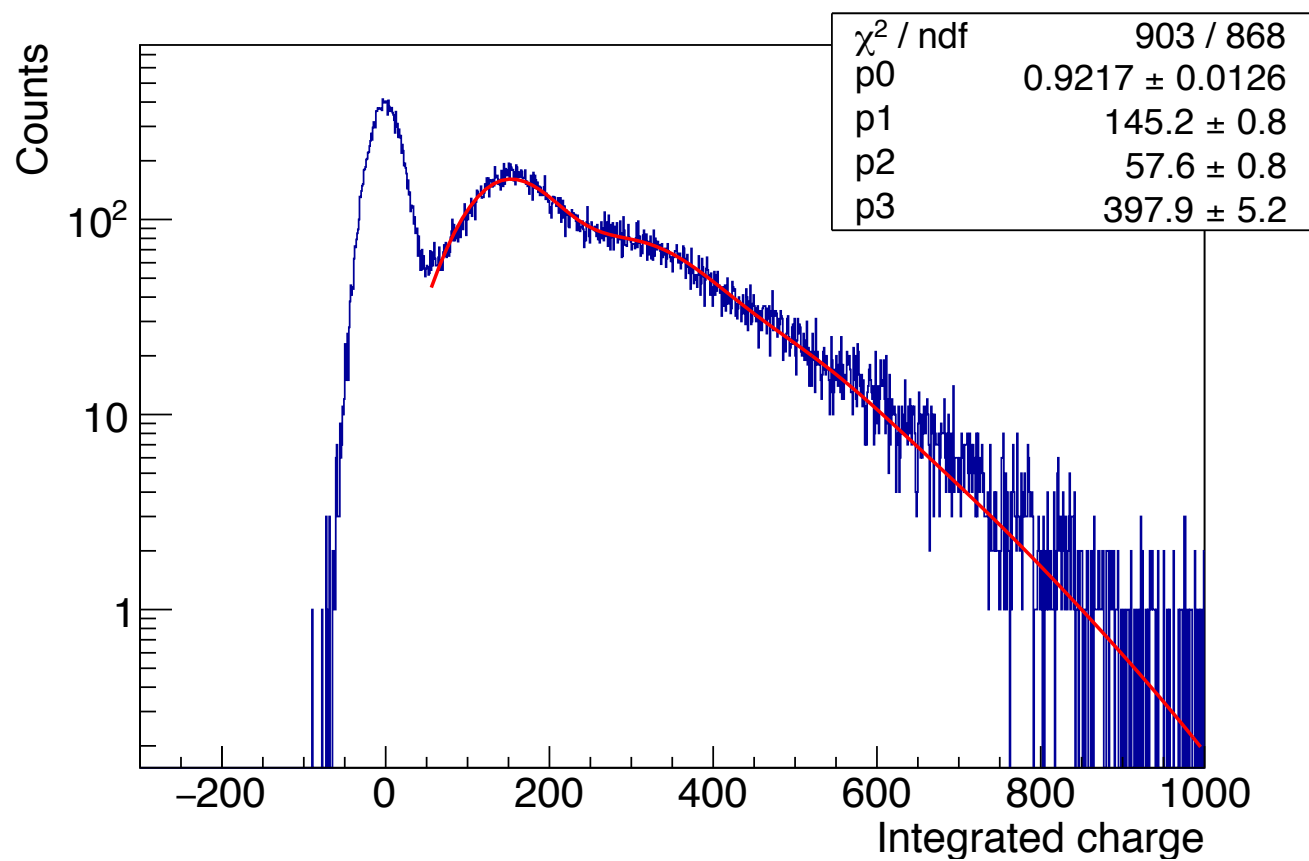
- I checked the mean of ADC counts.
- The mean of ADC counts was almost stable.



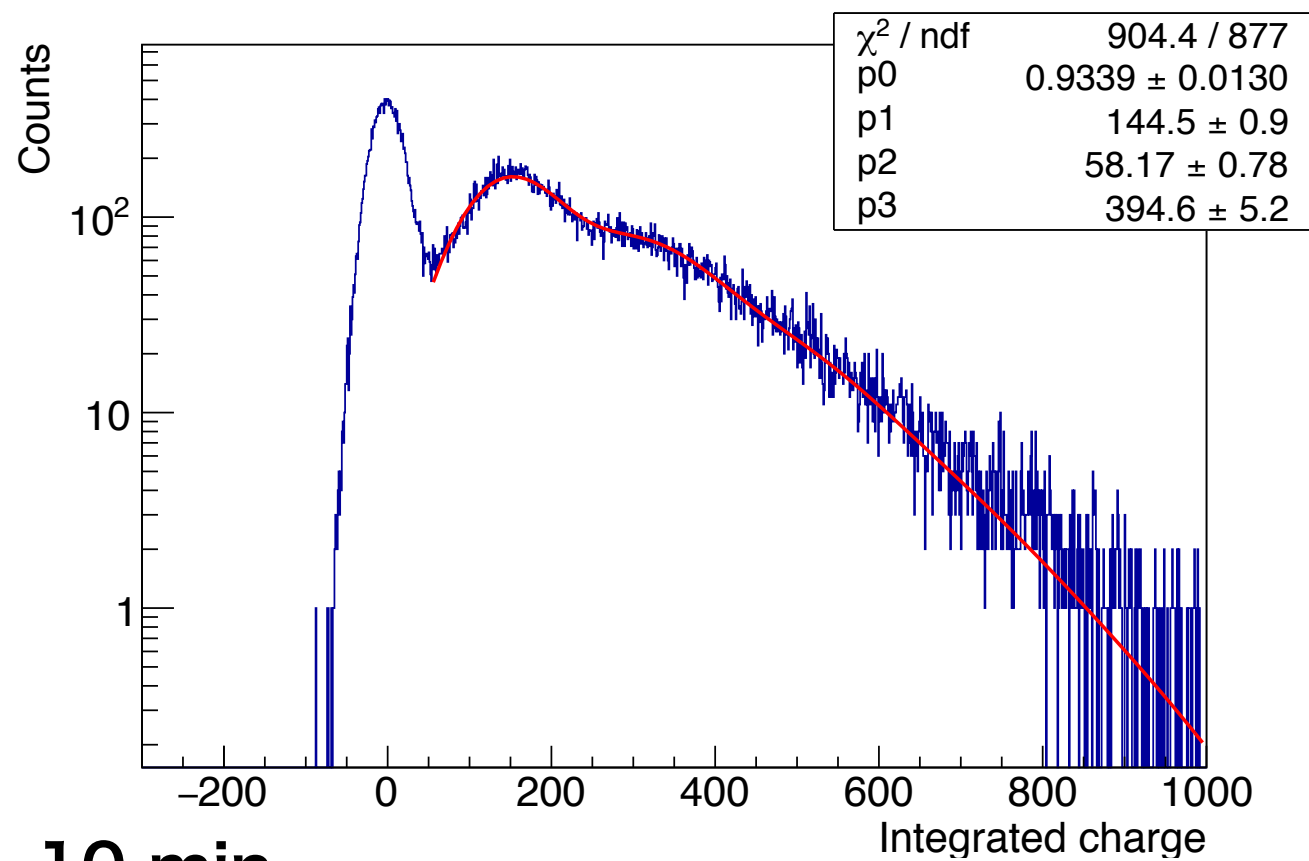
ADC counts



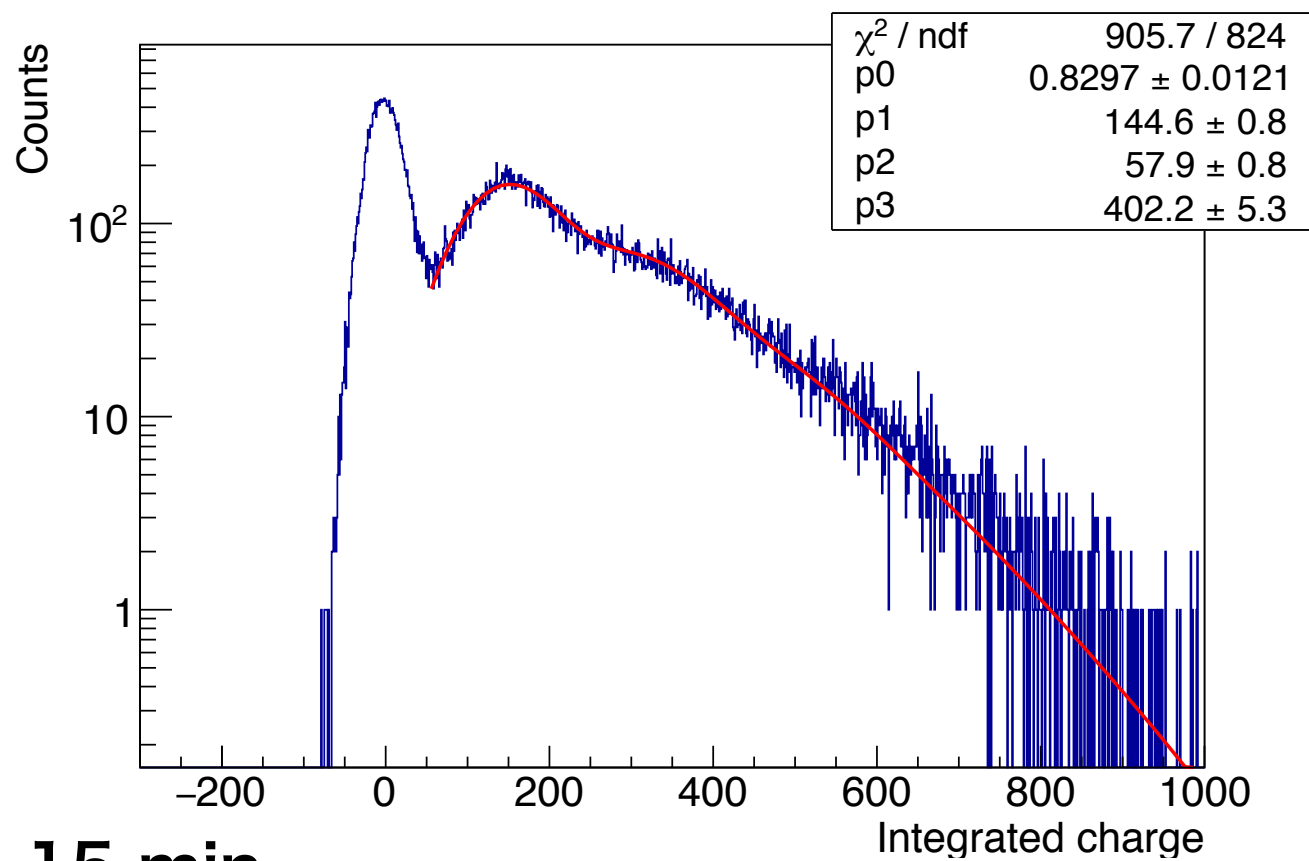
0 min



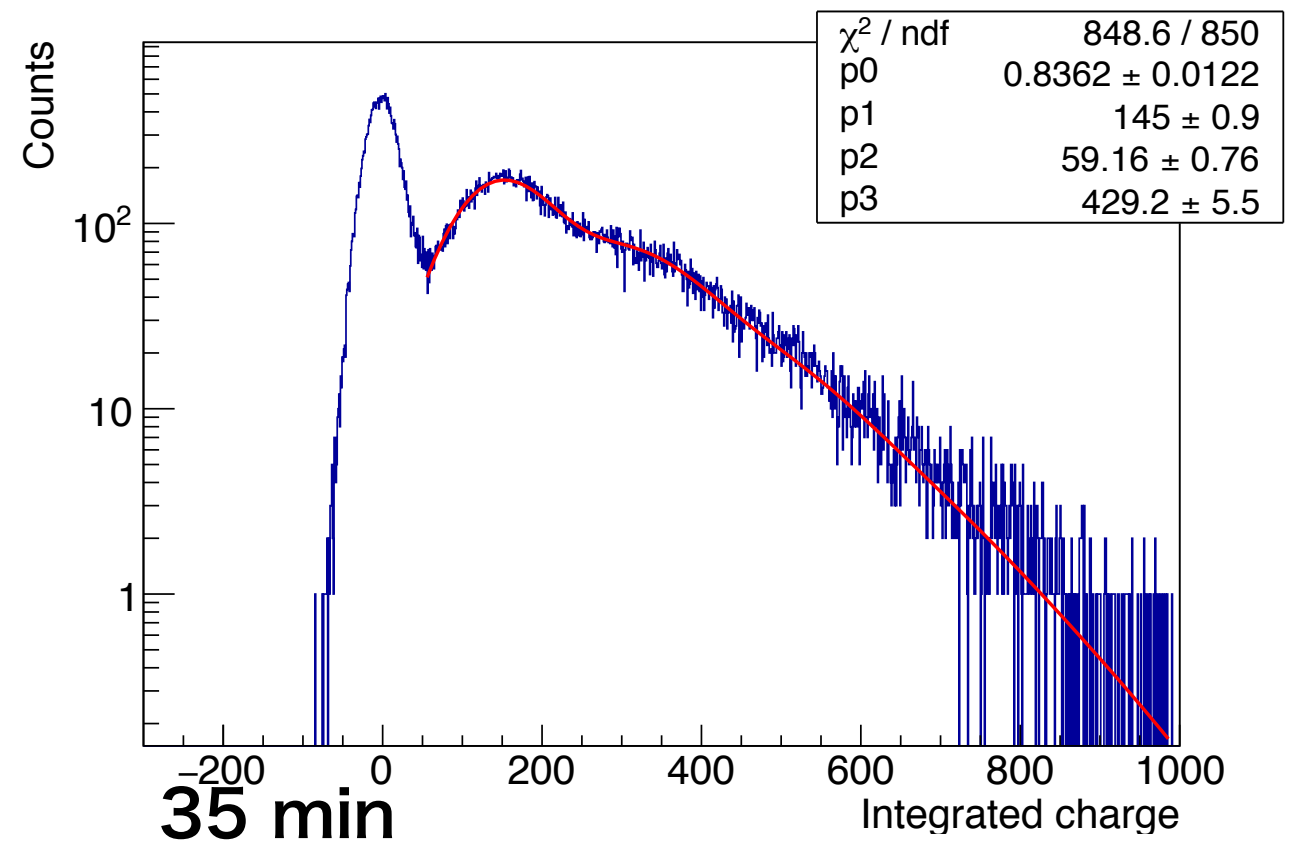
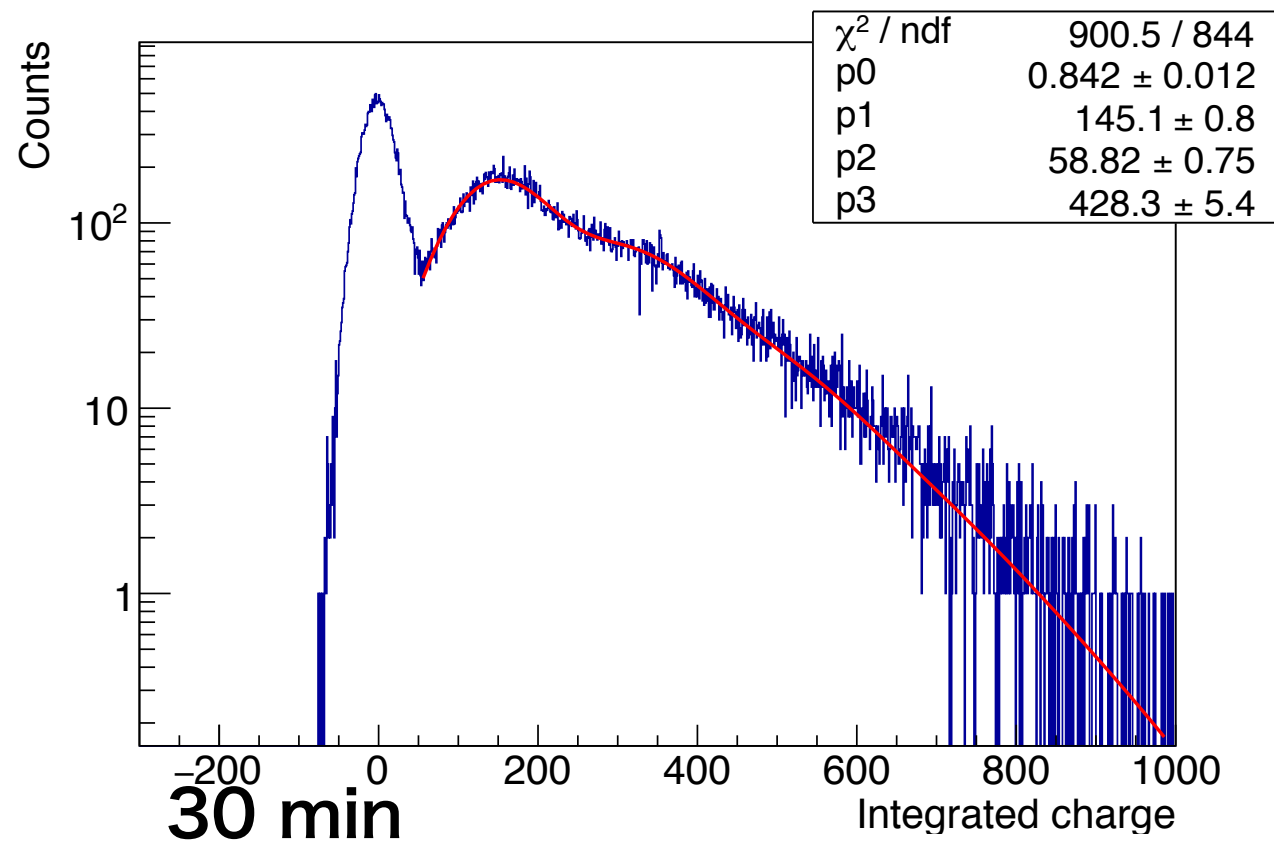
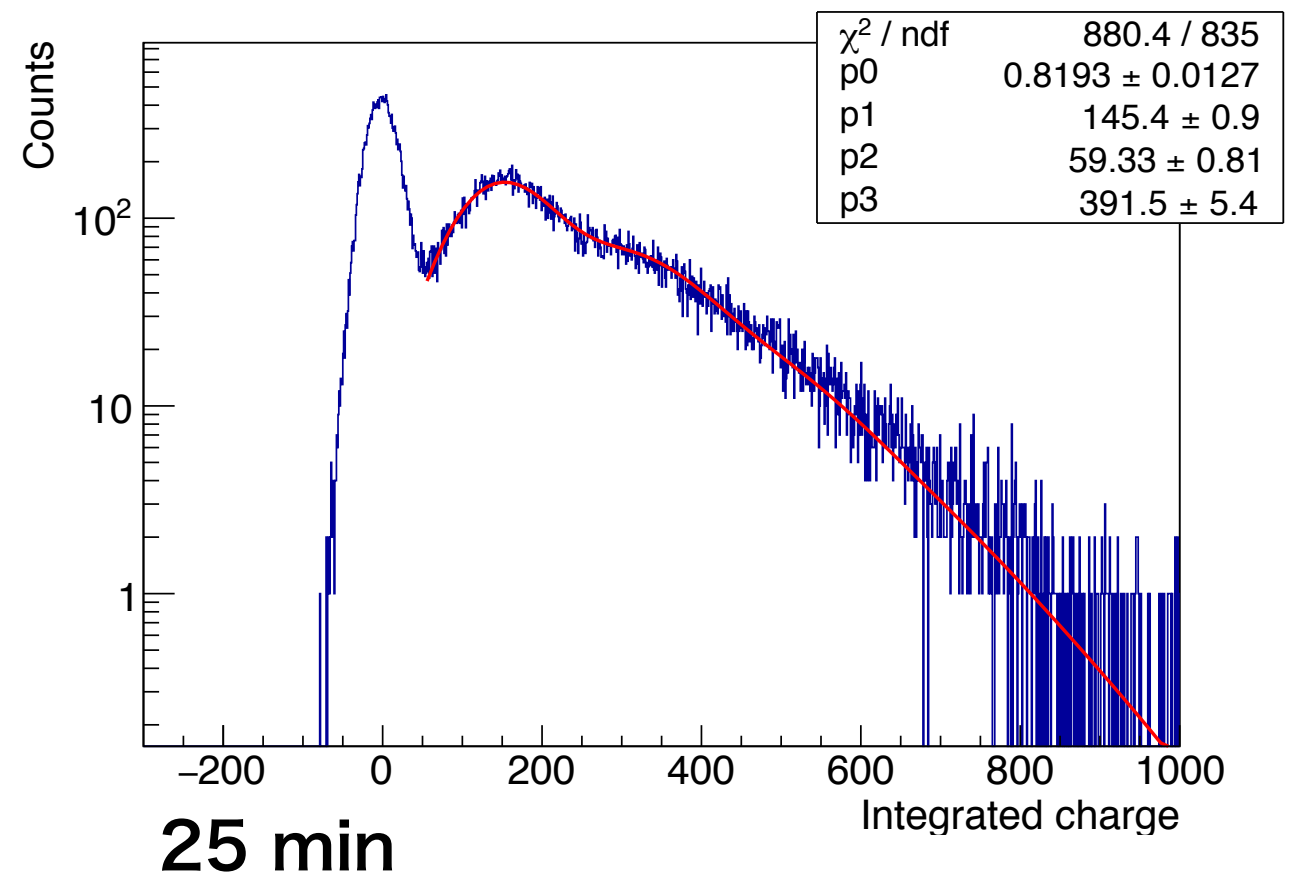
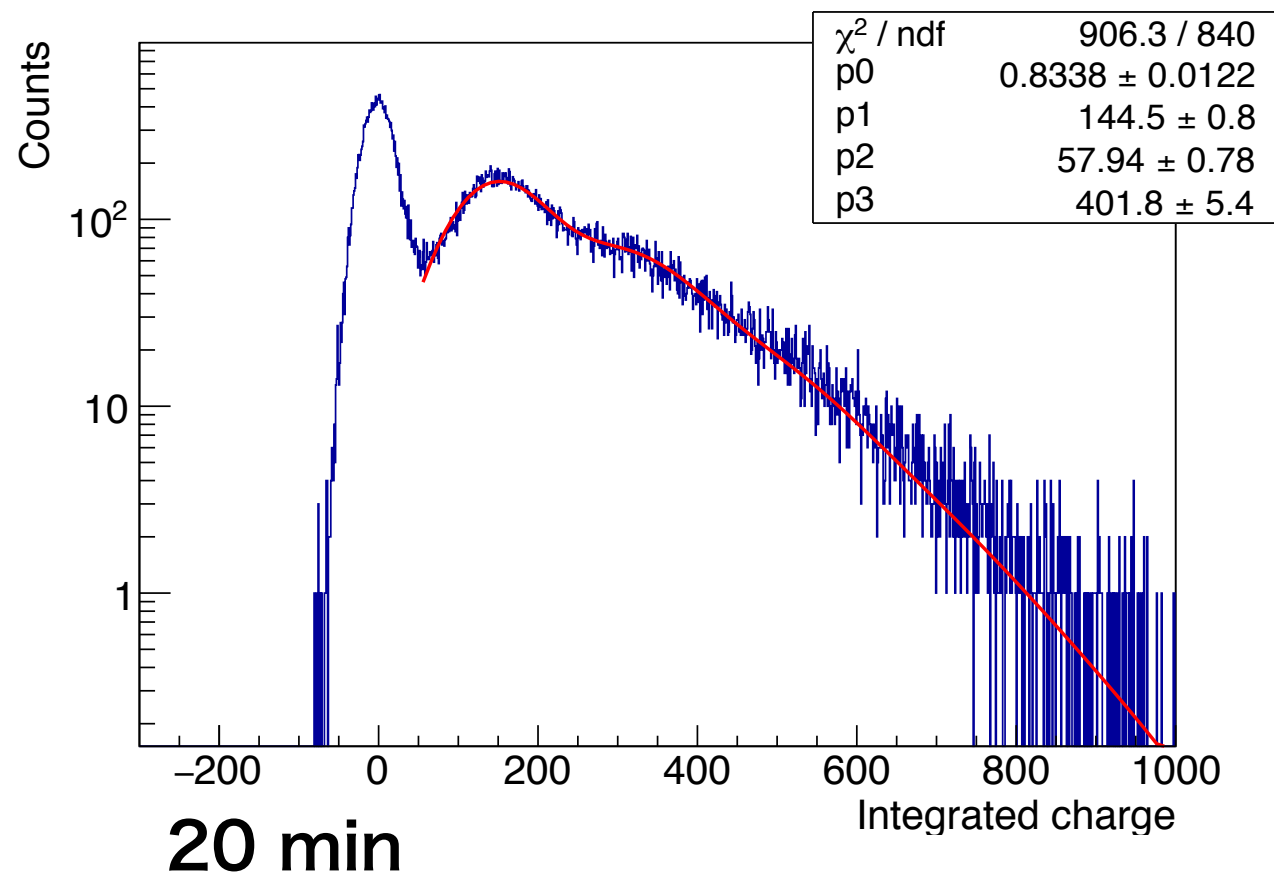
5 min

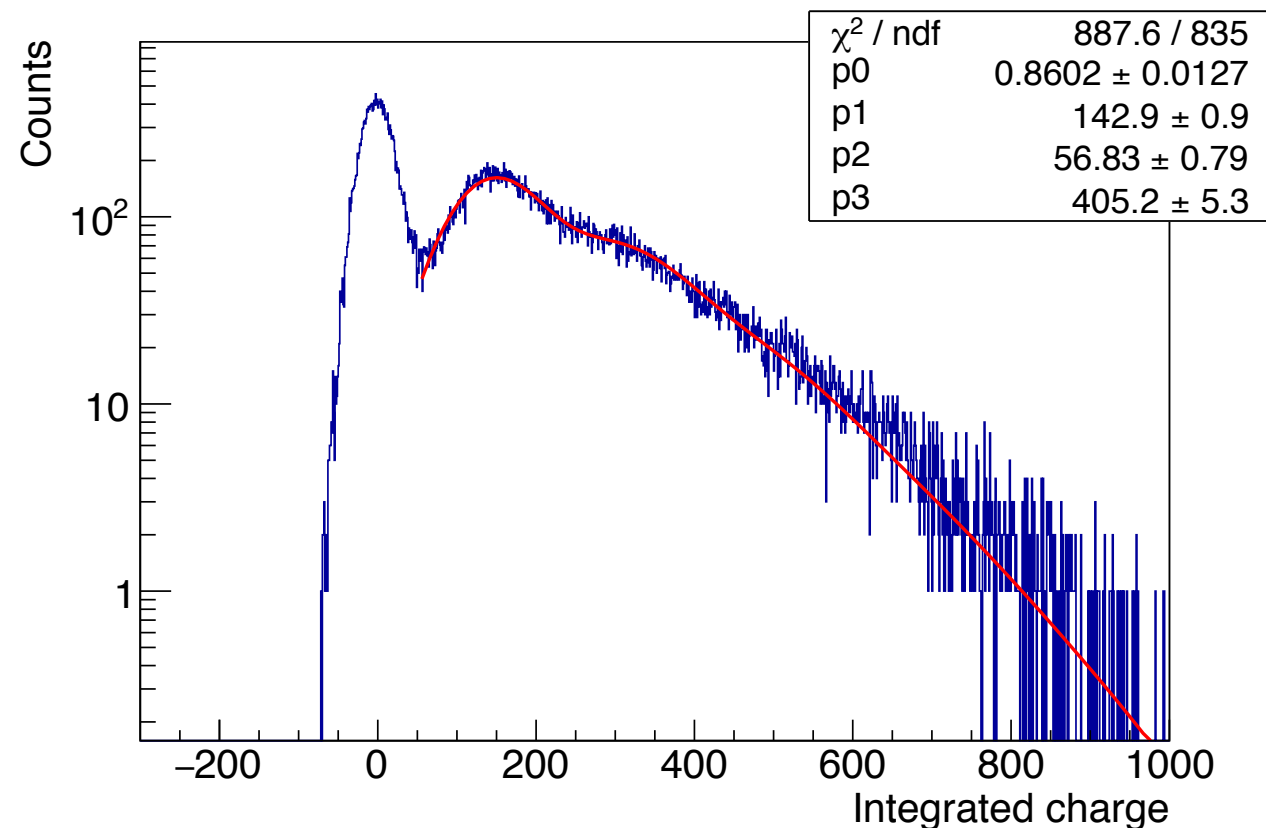


10 min

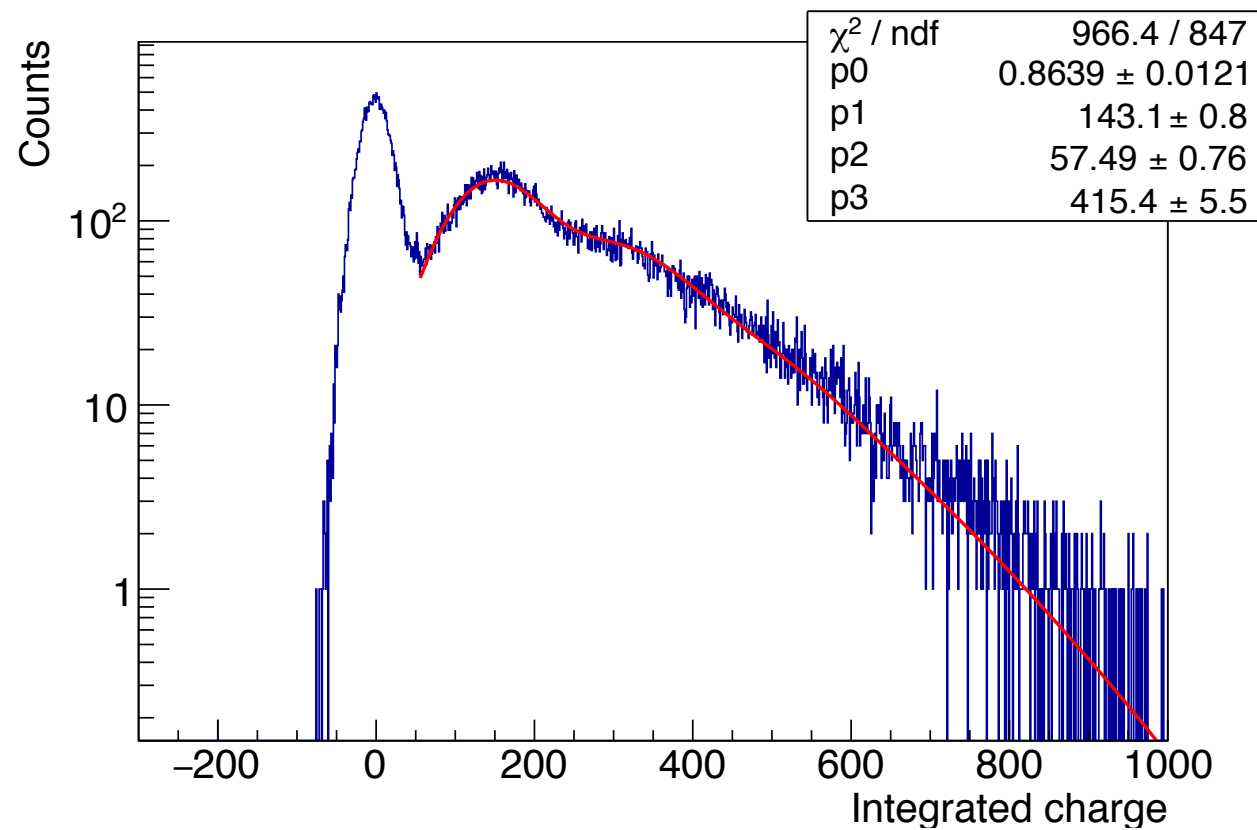


15 min

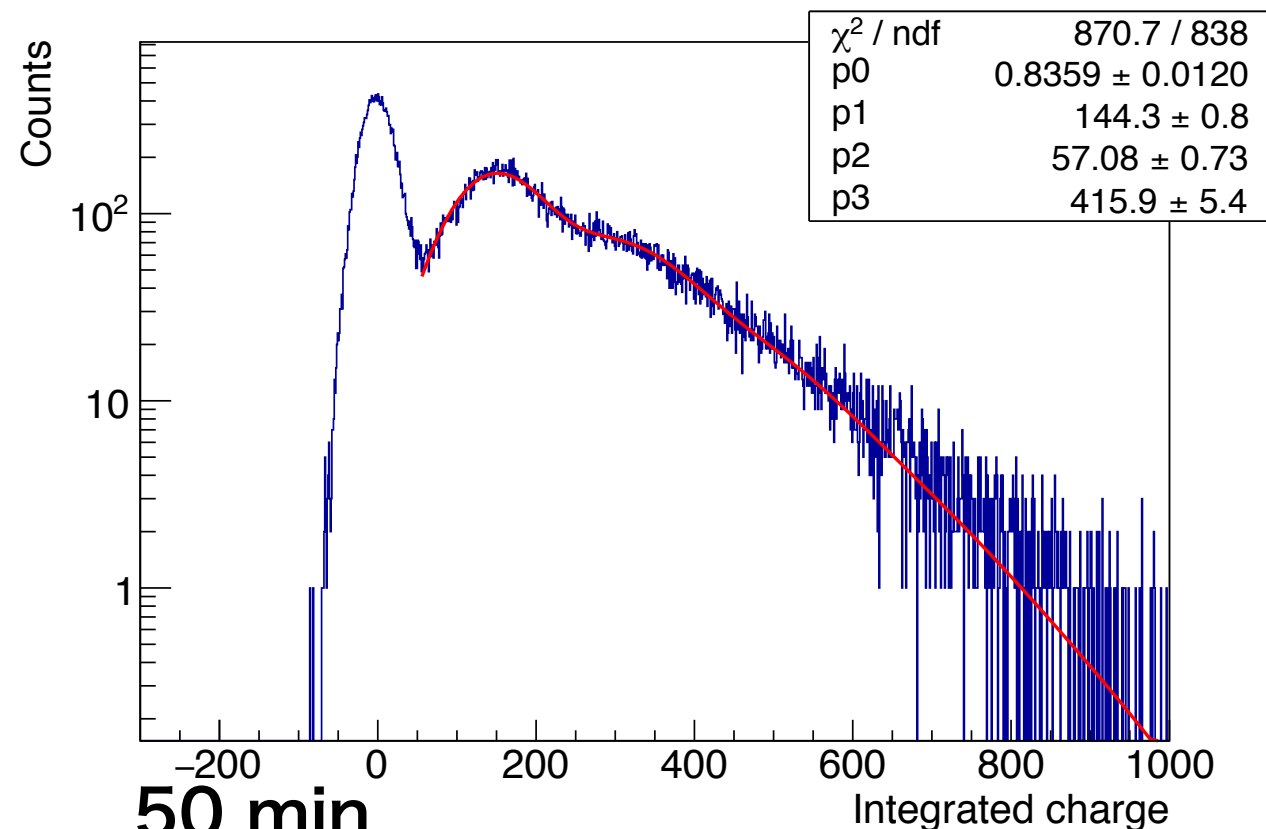




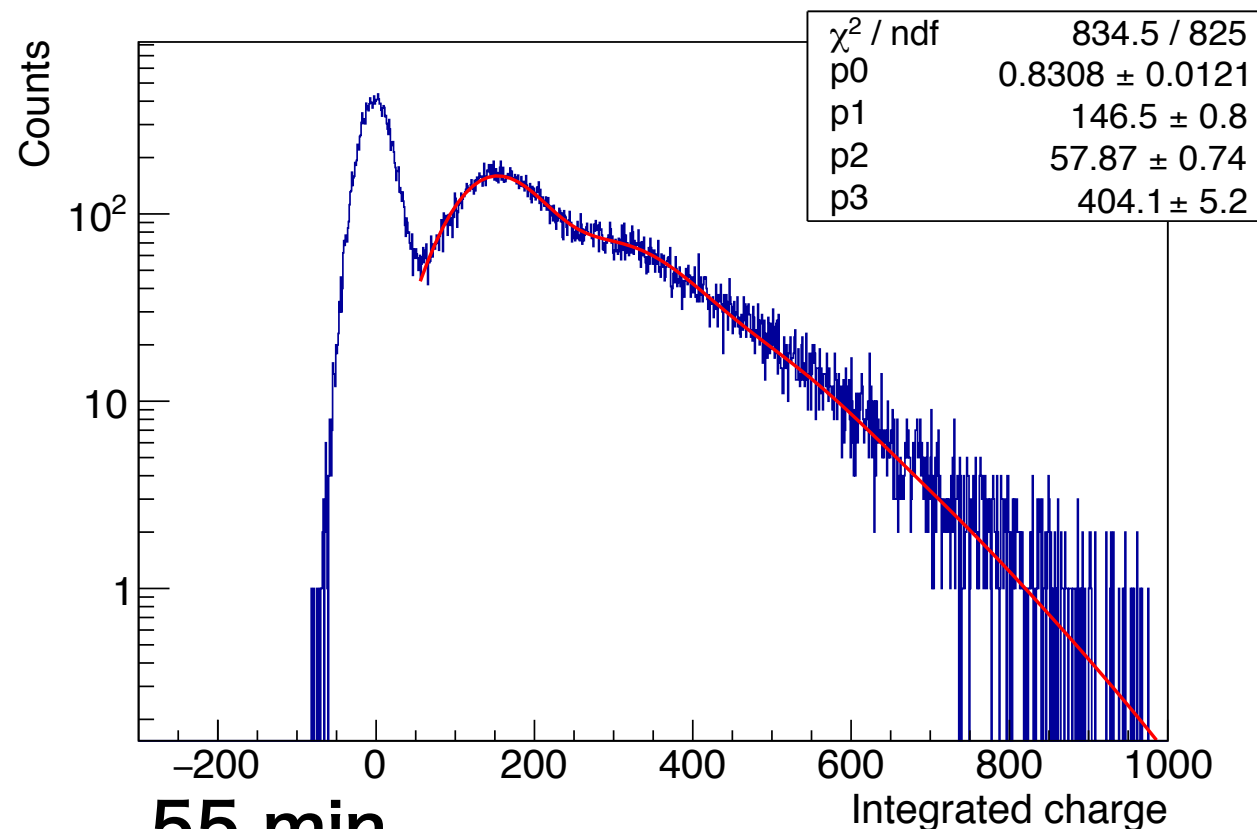
40 min



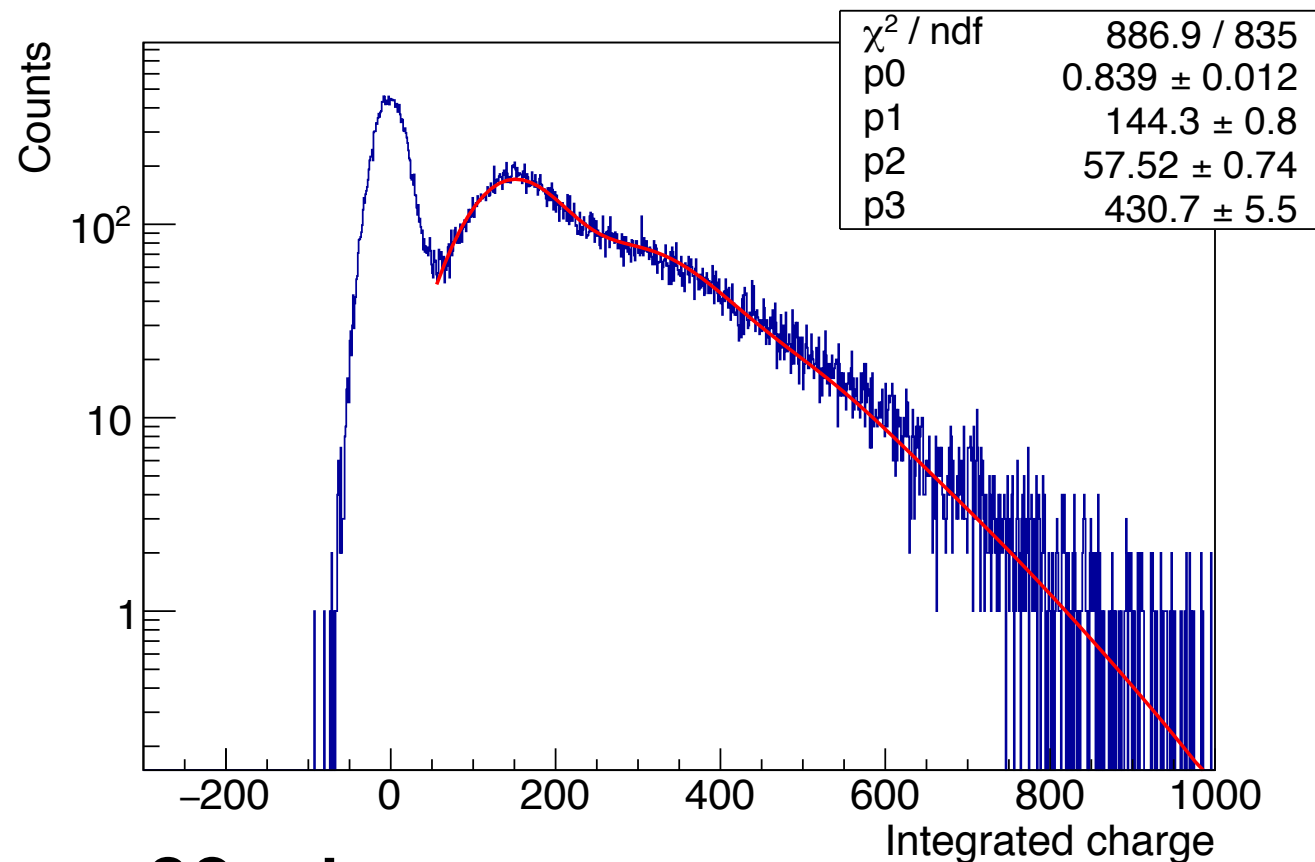
45 min



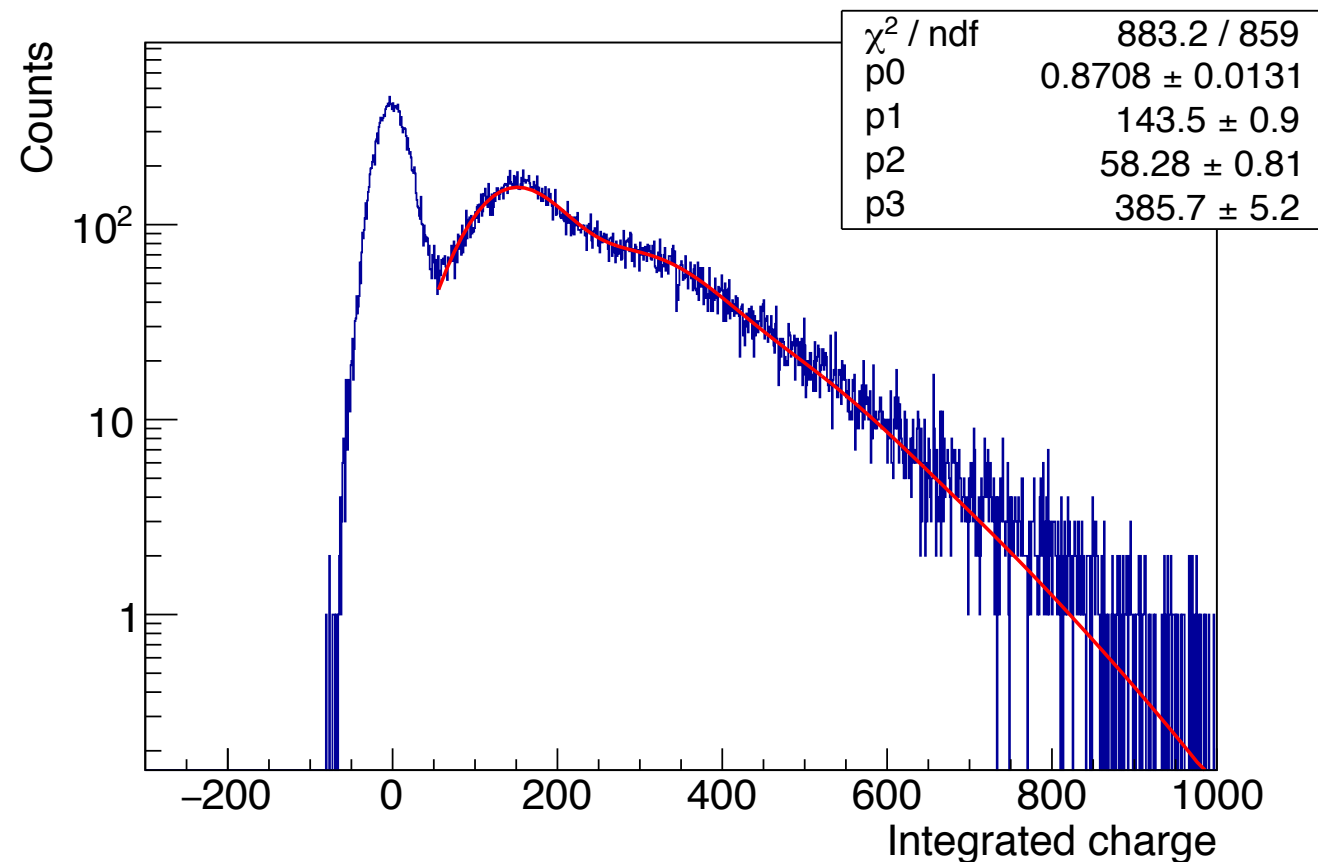
50 min



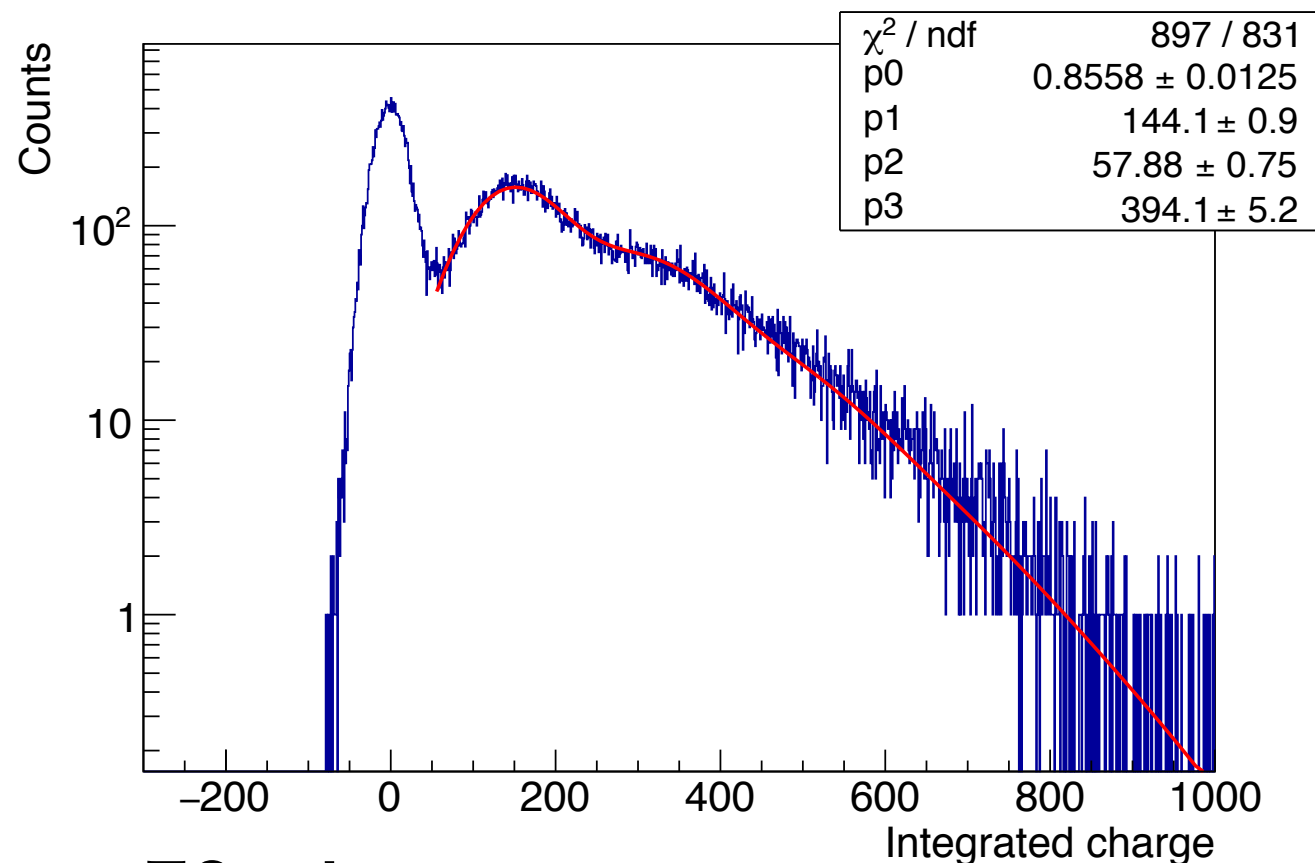
55 min



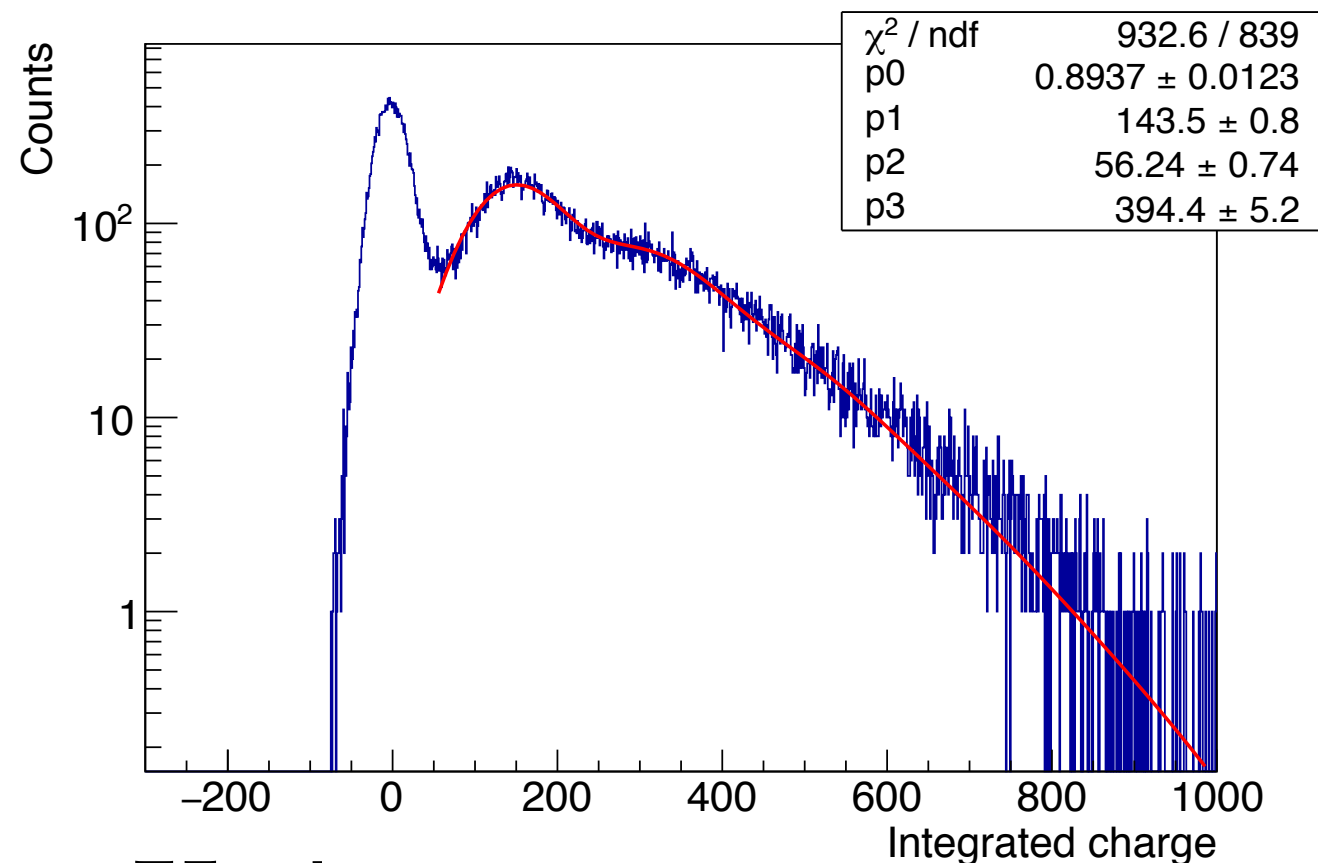
60 min



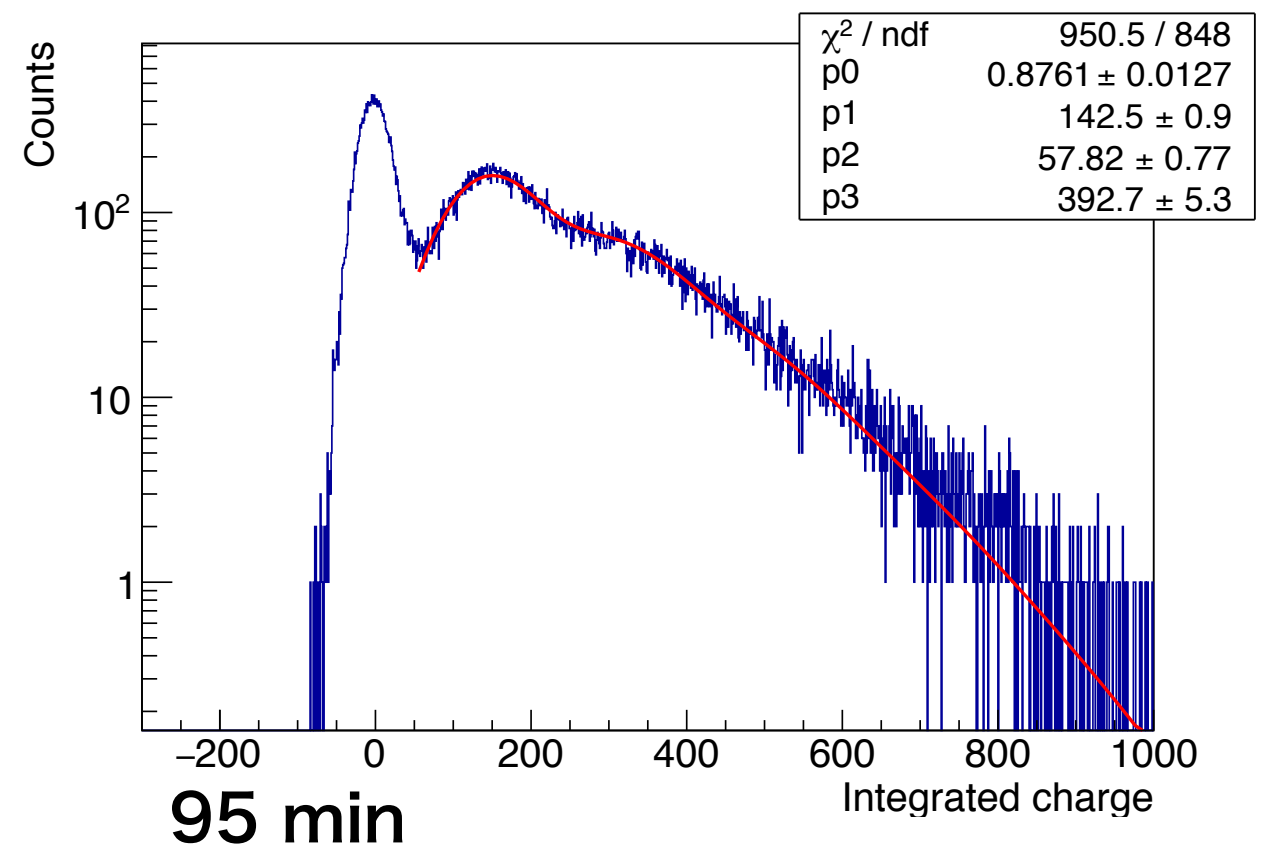
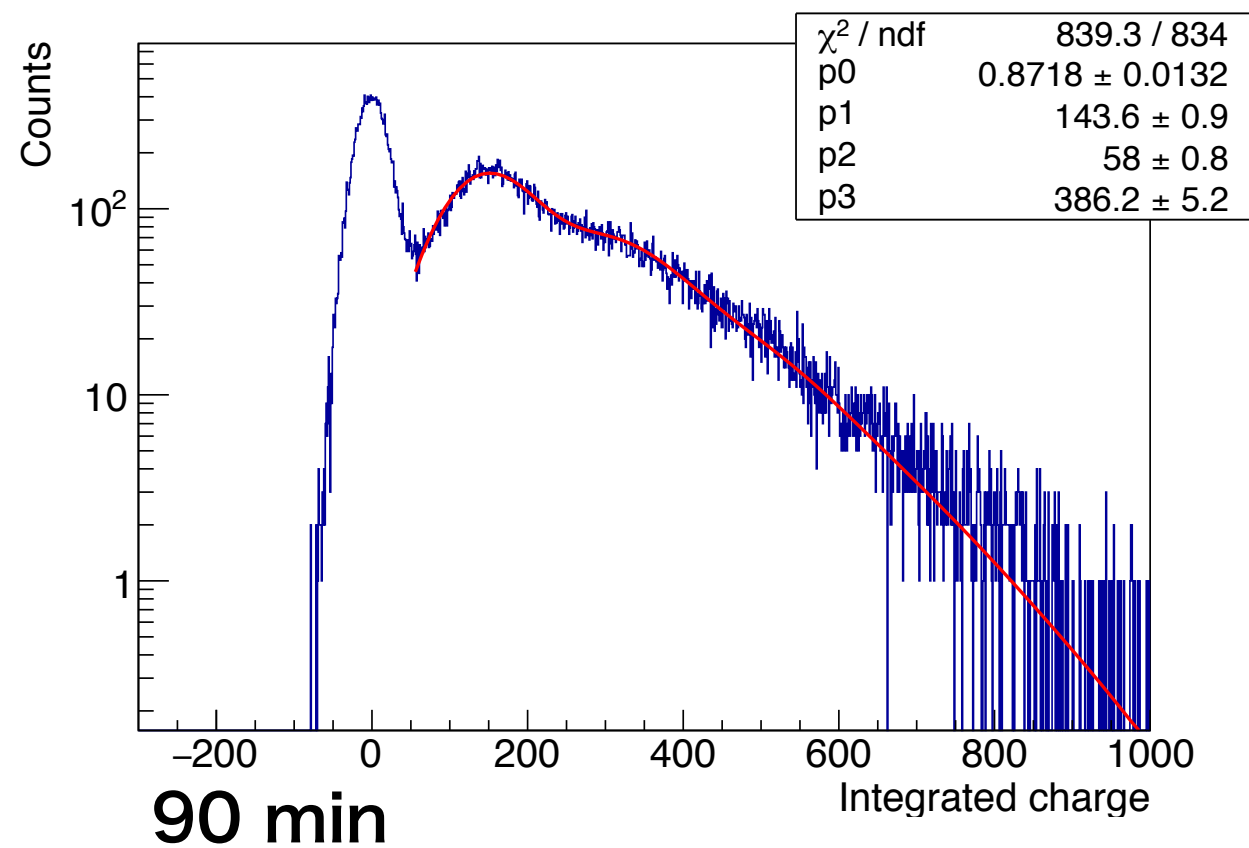
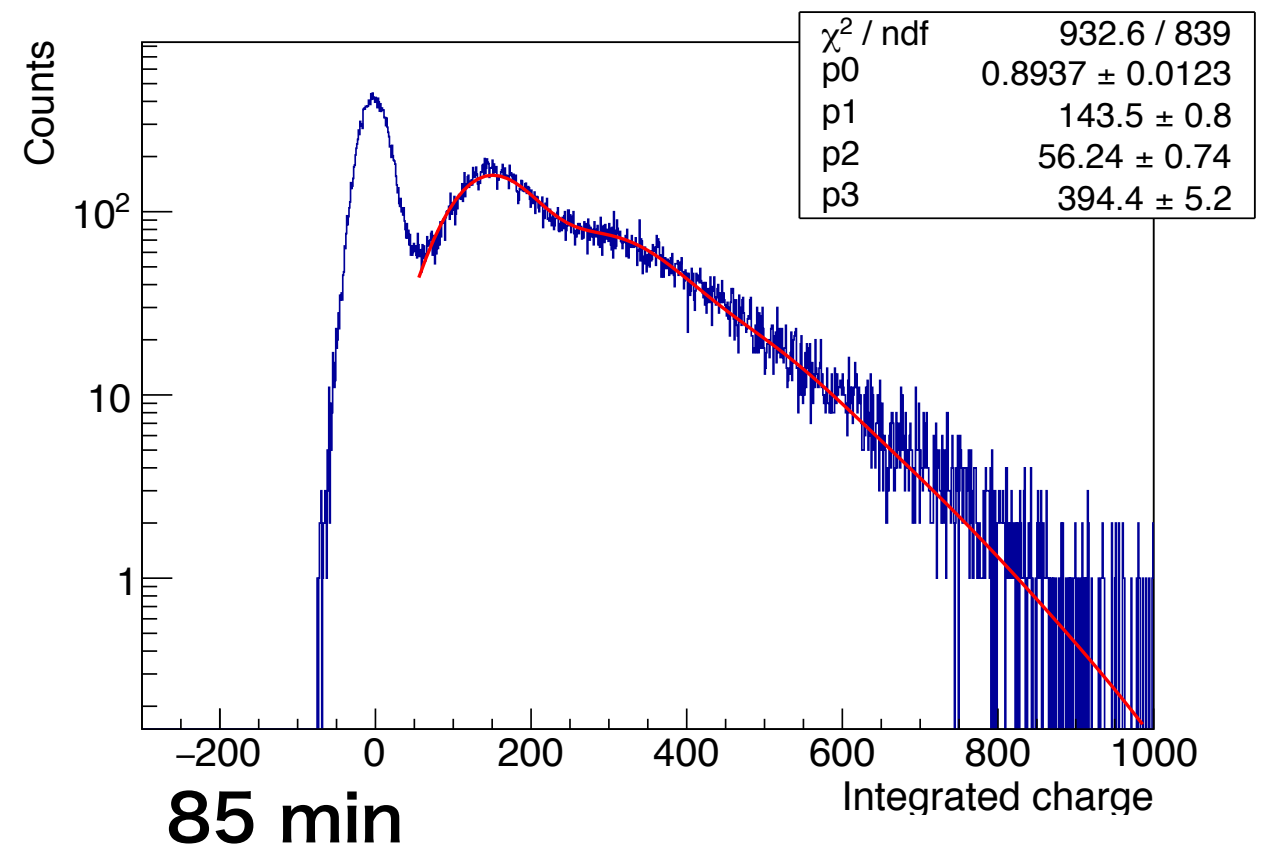
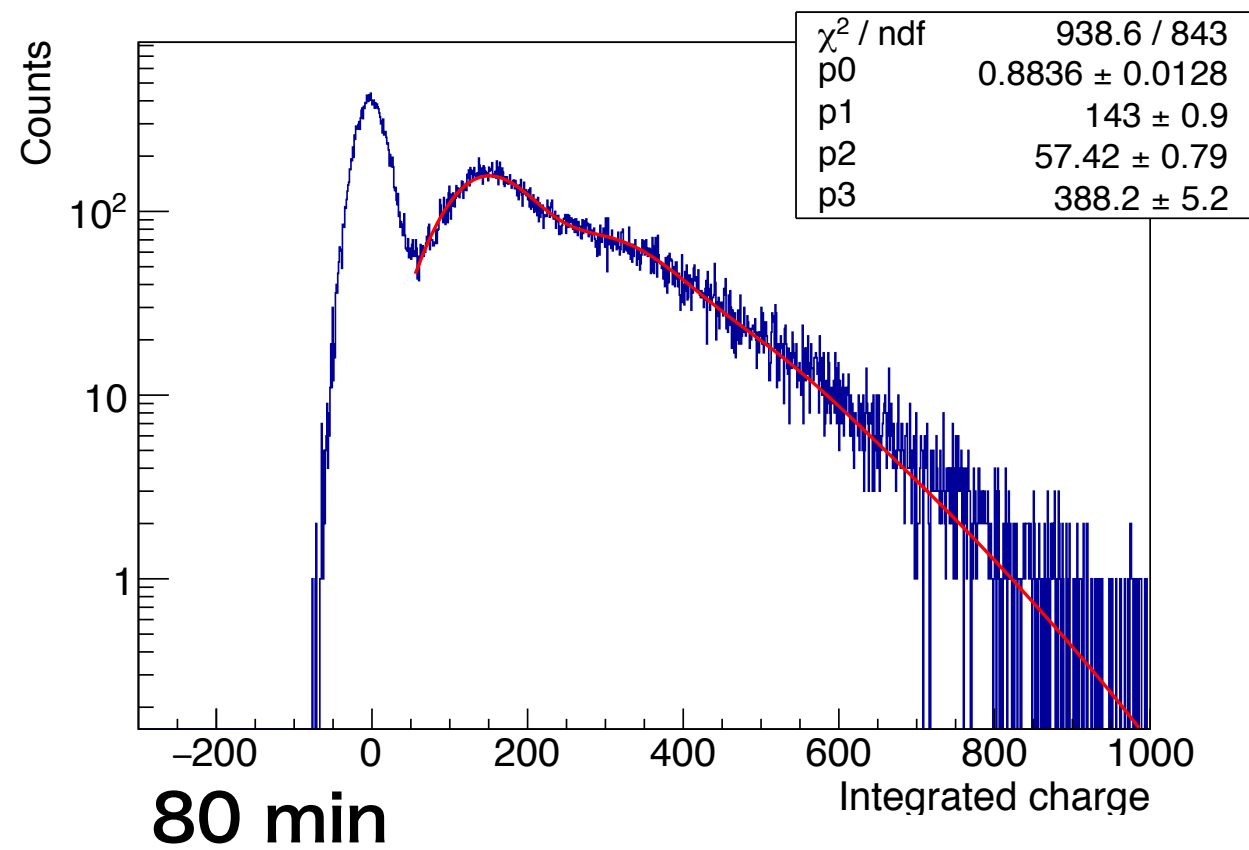
65 min

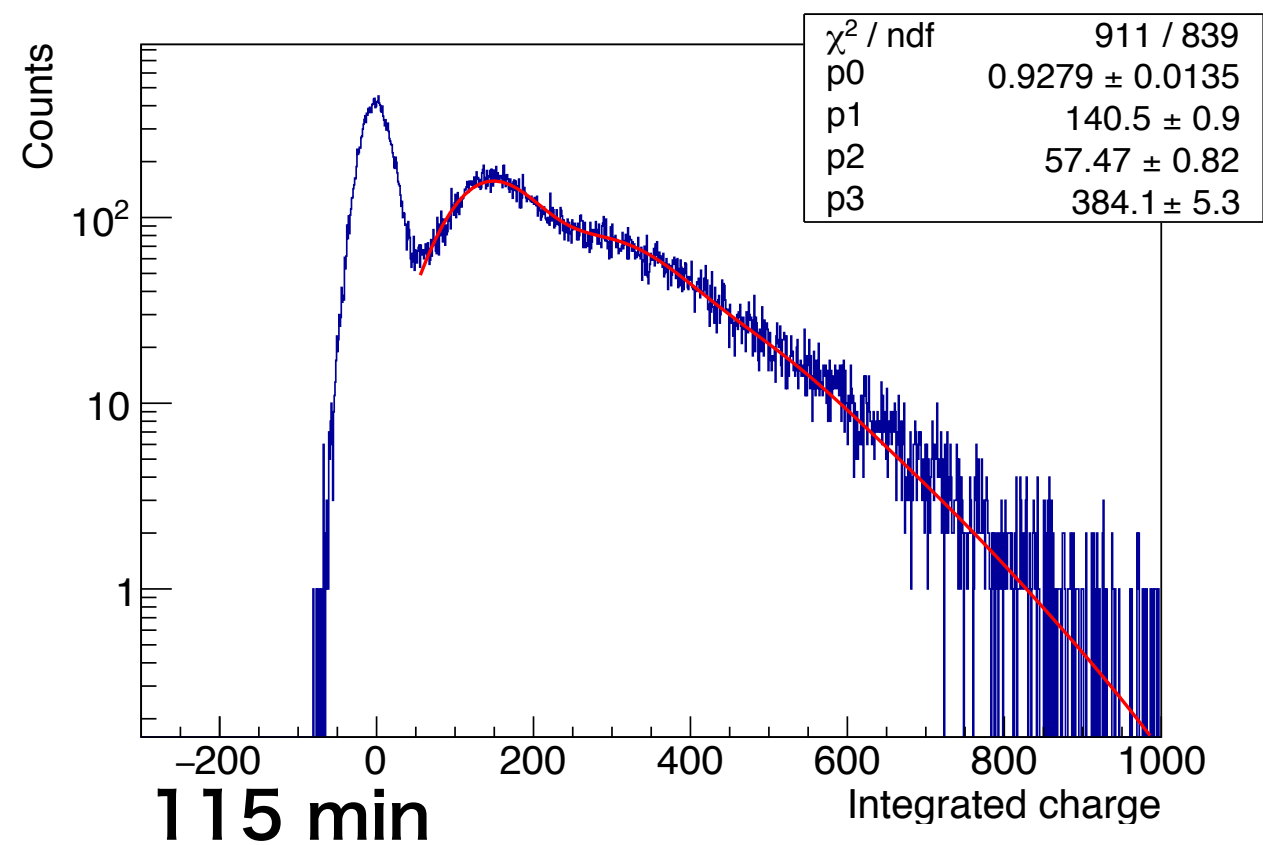
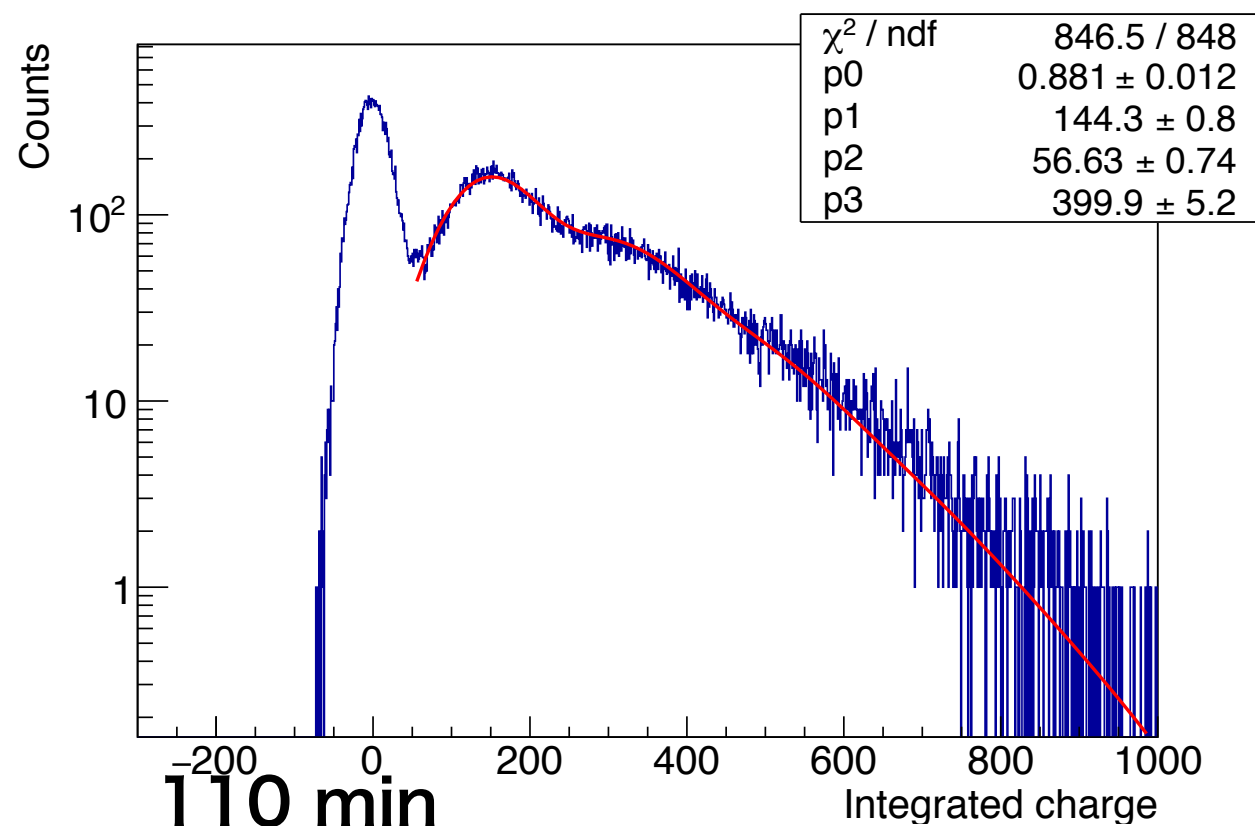
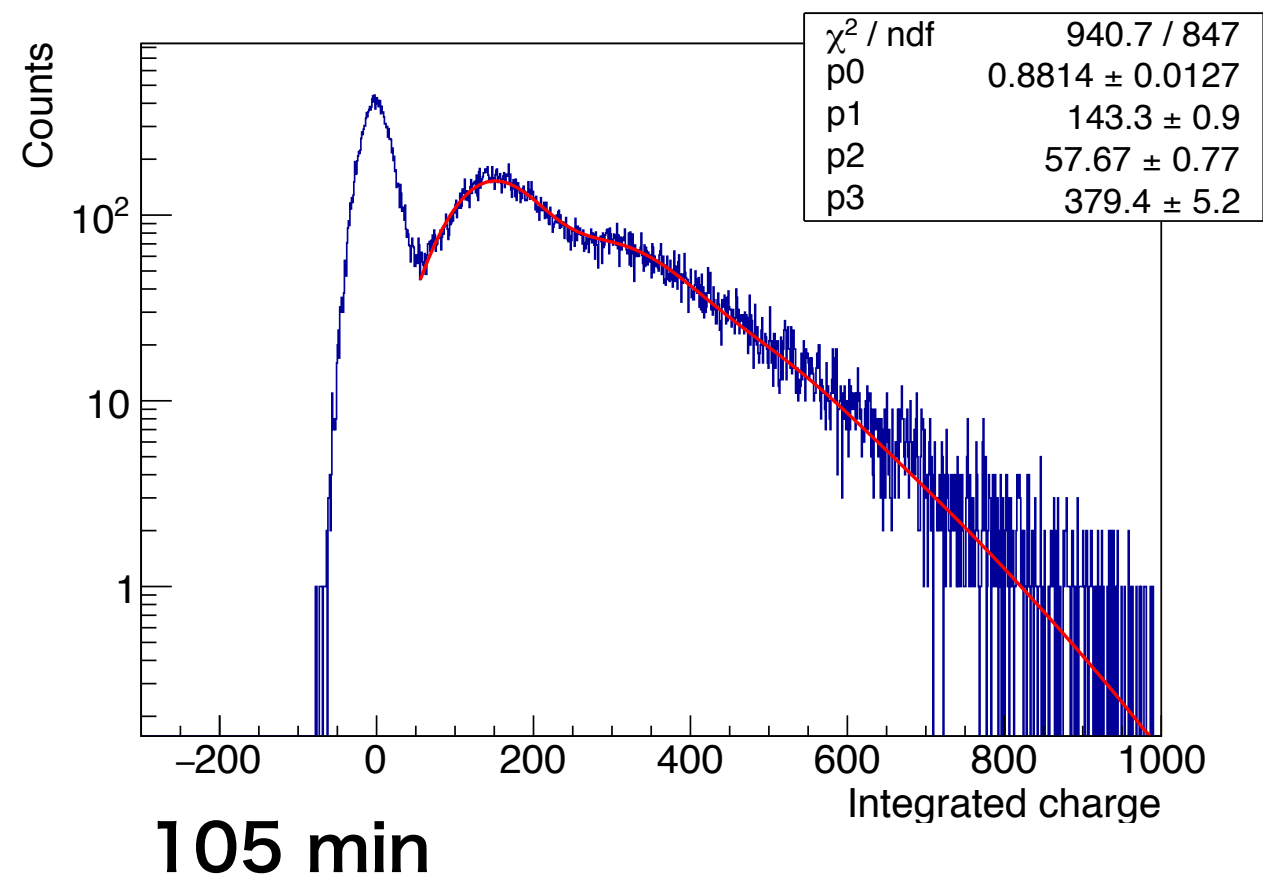
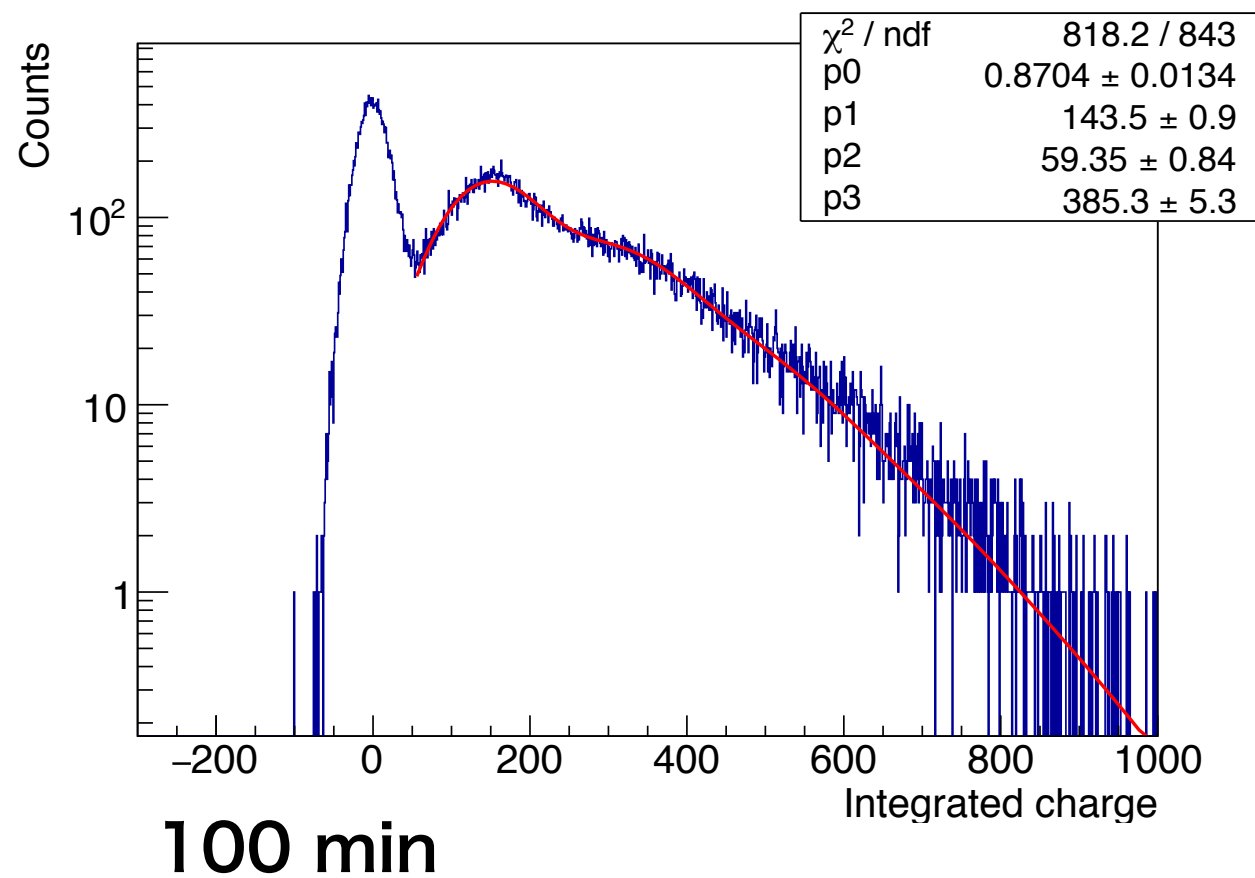


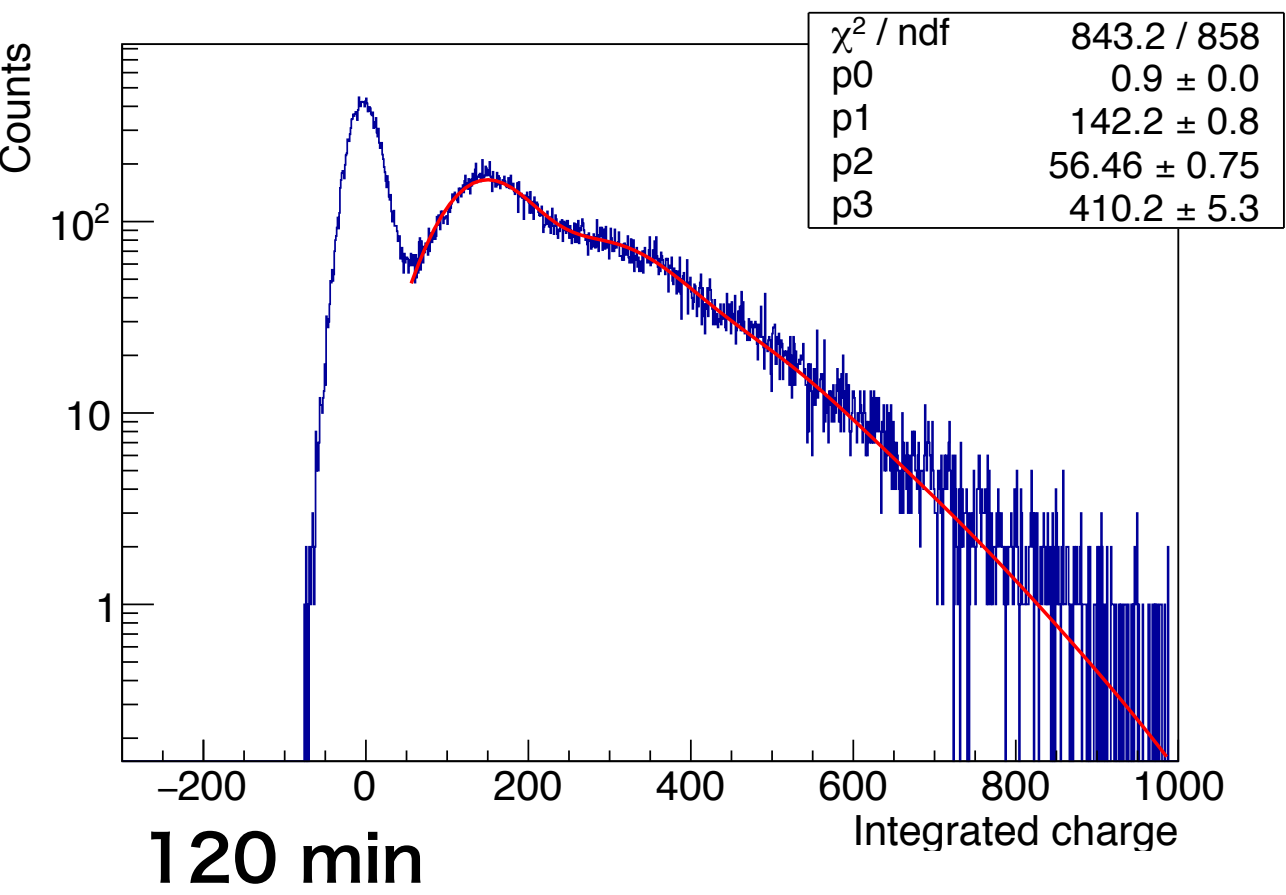
70 min



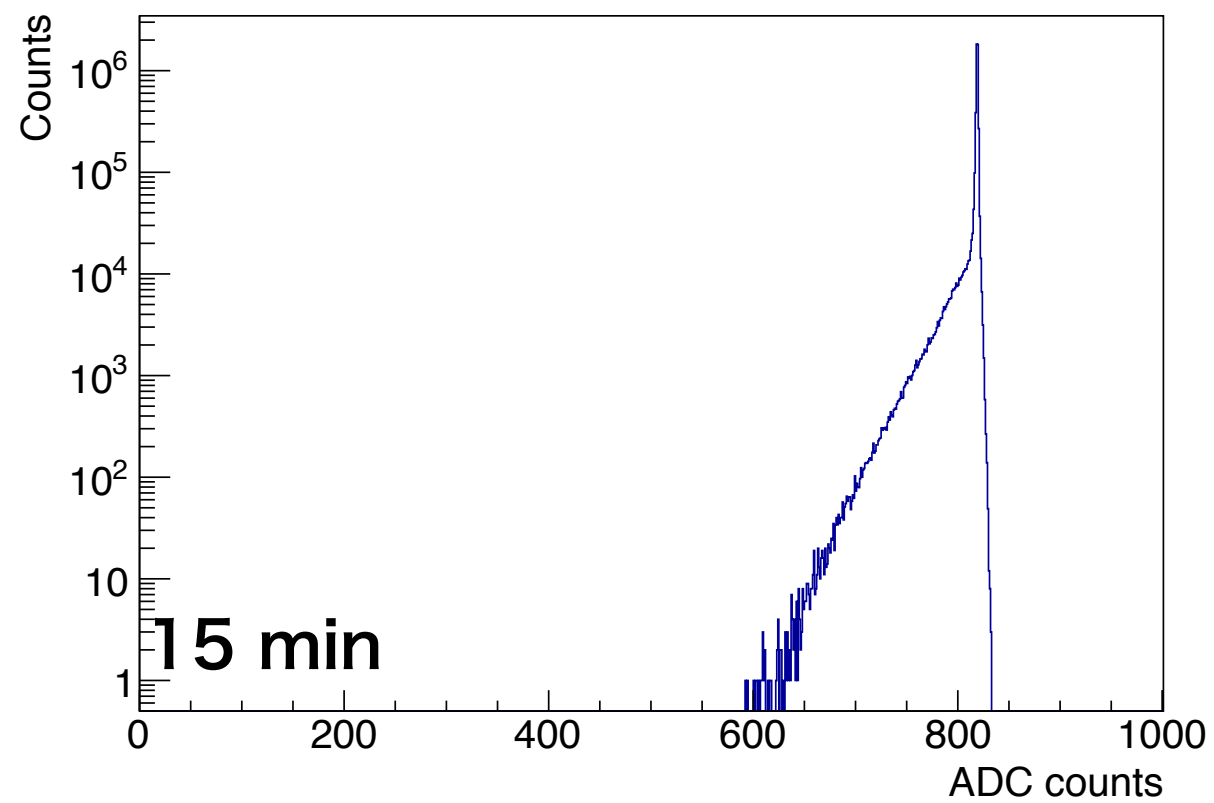
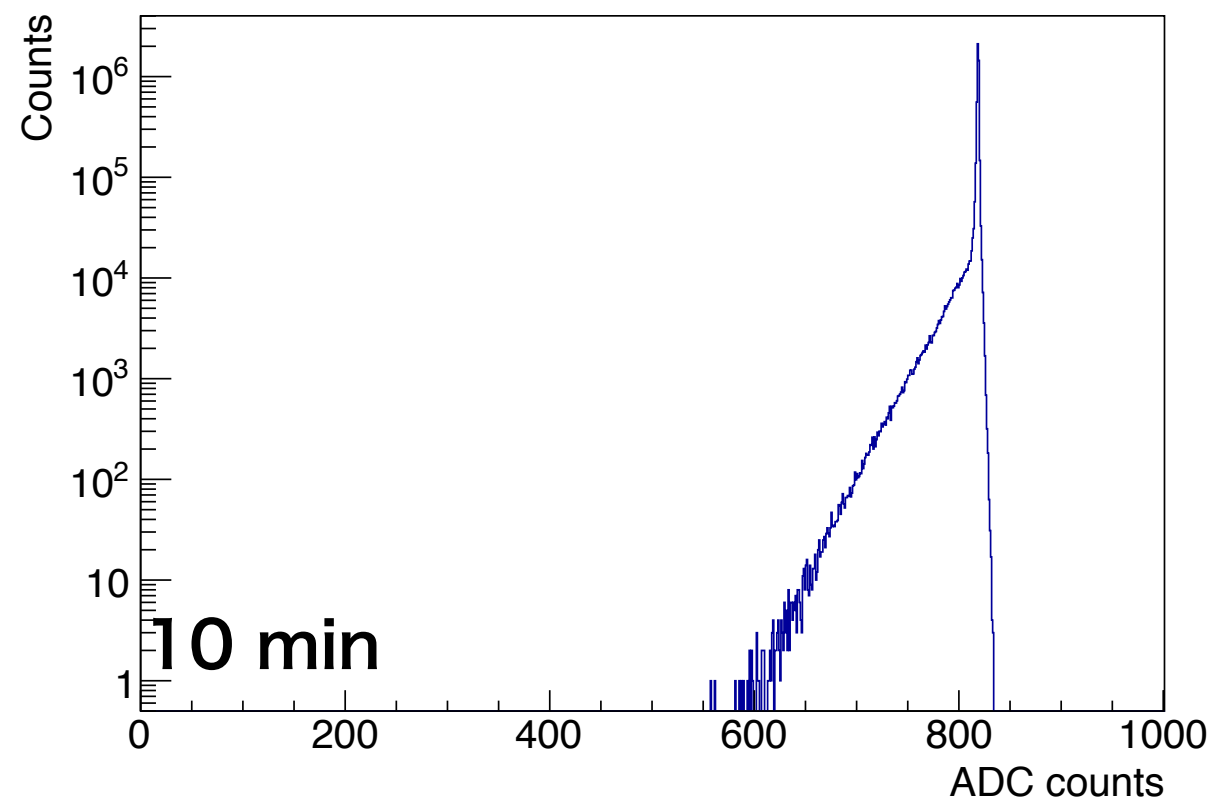
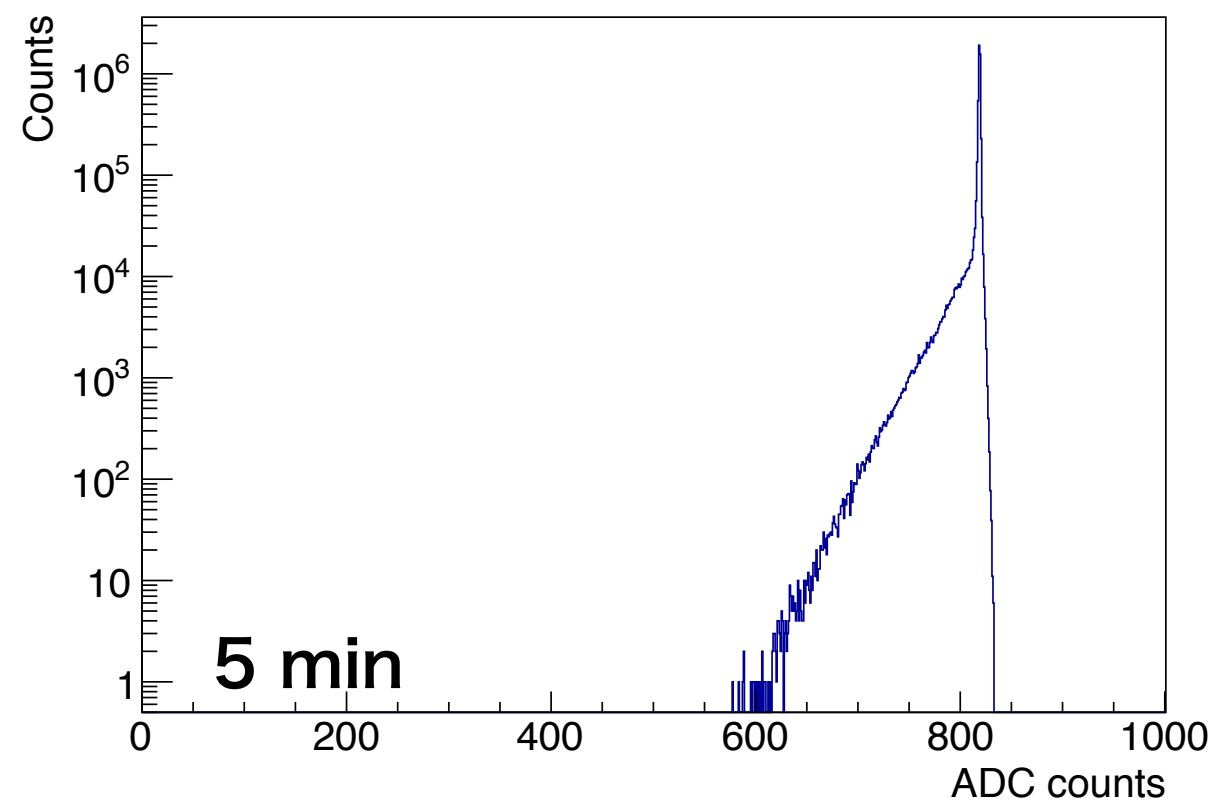
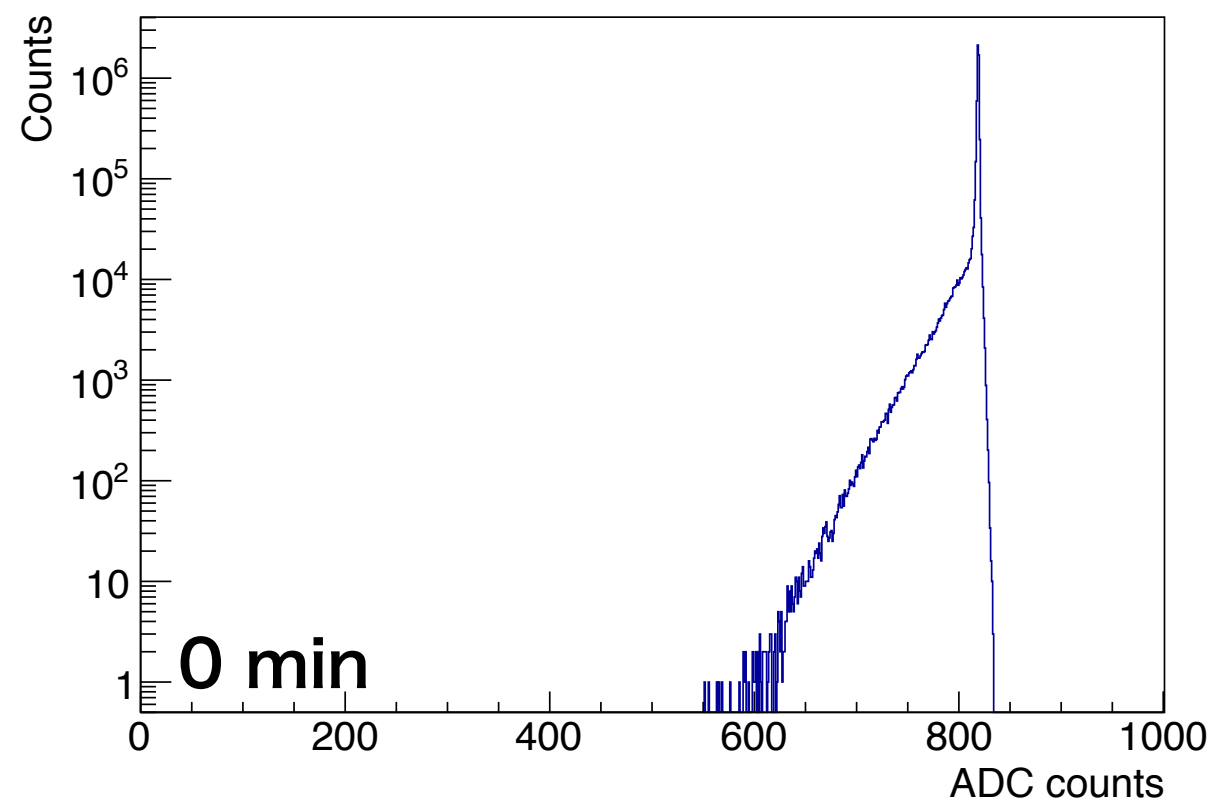
75 min

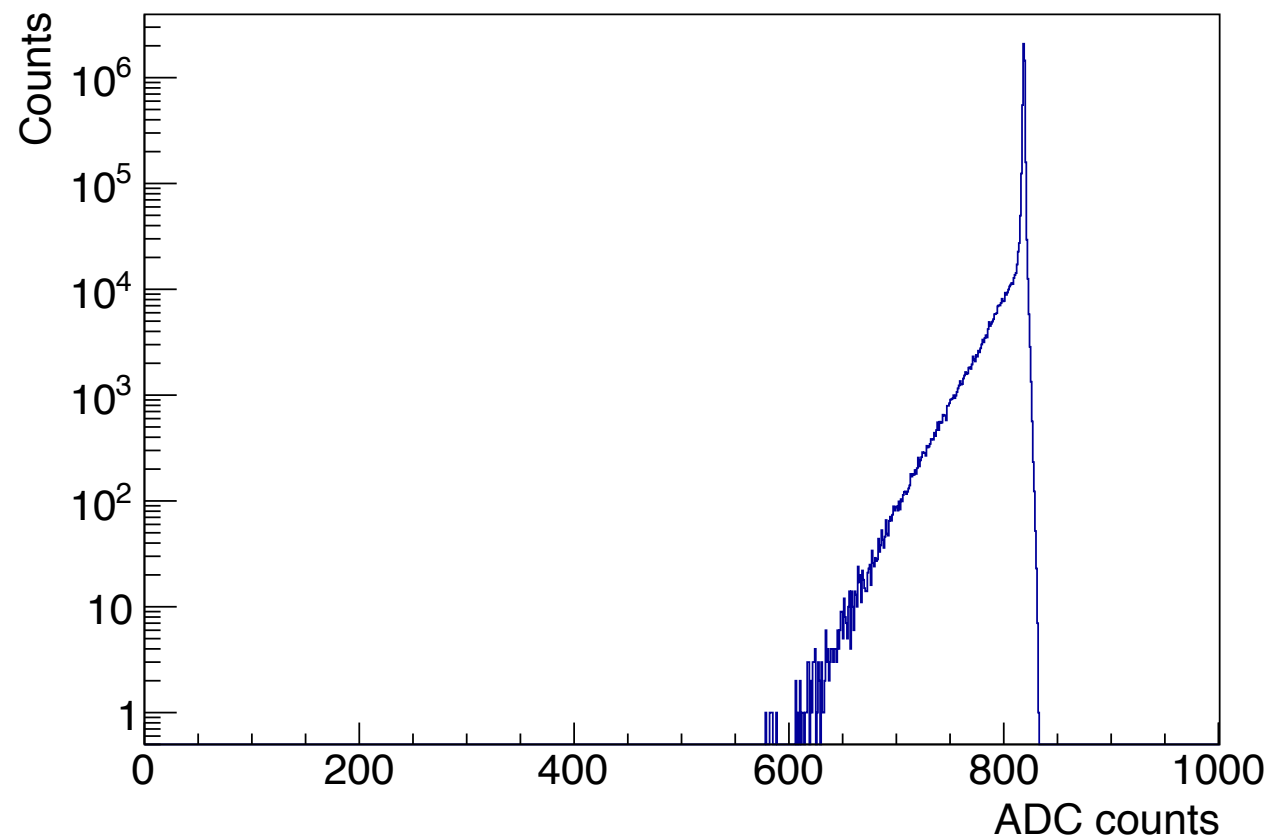




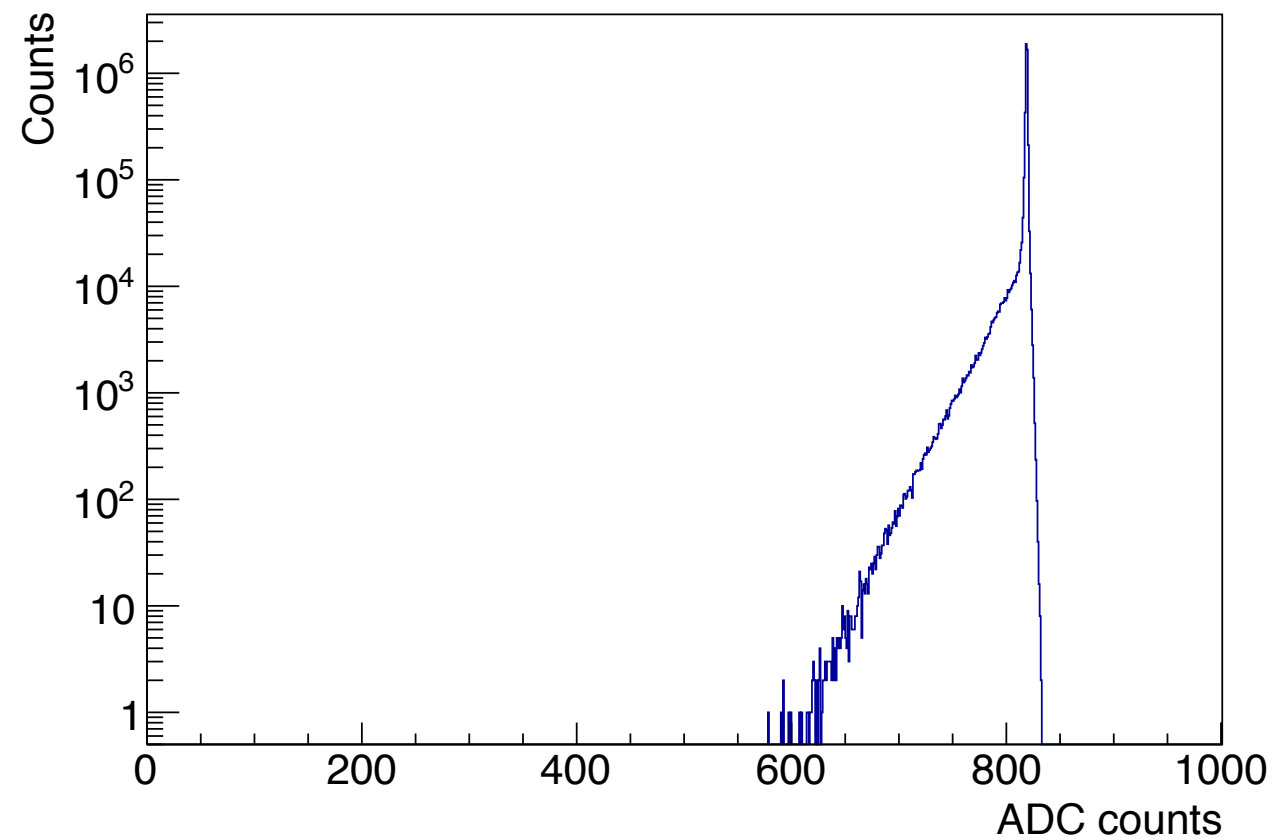


ADC counts

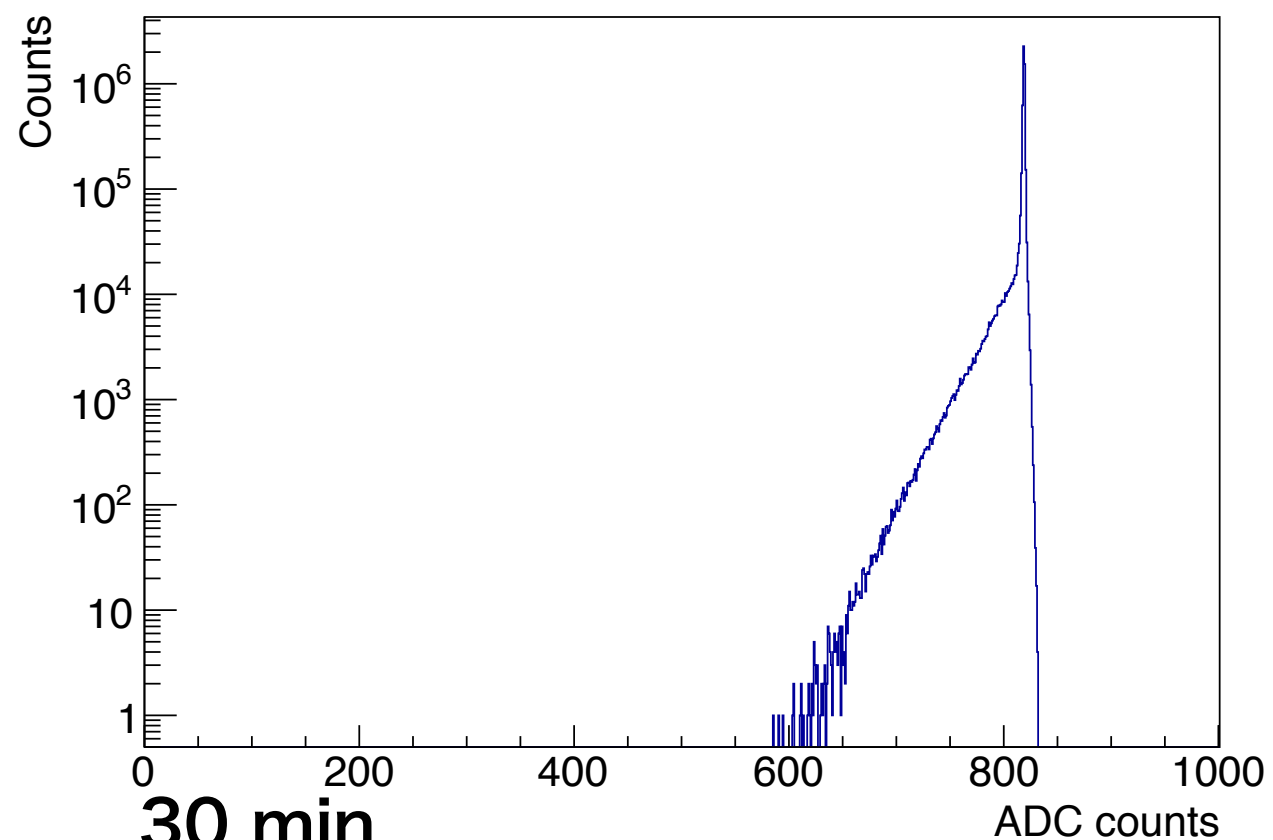




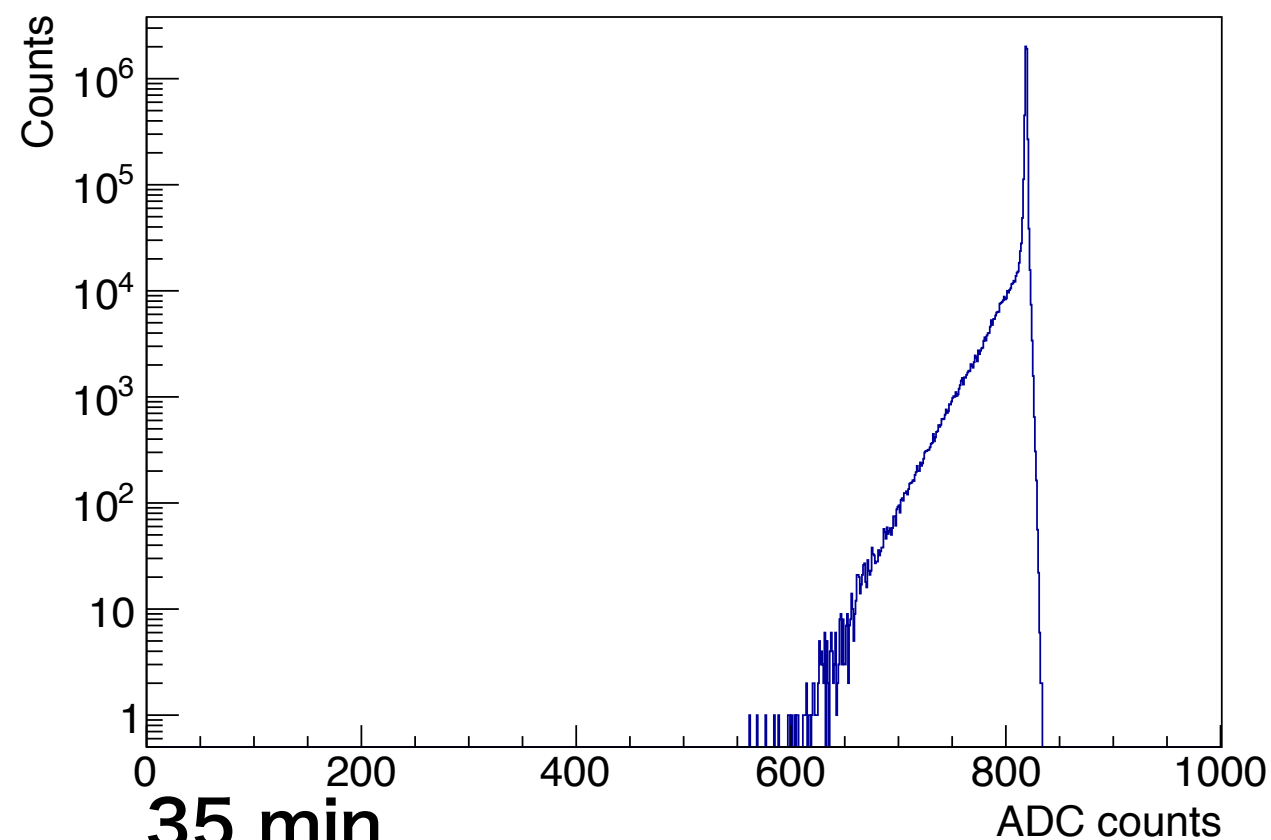
20 min



25 min



30 min



35 min

