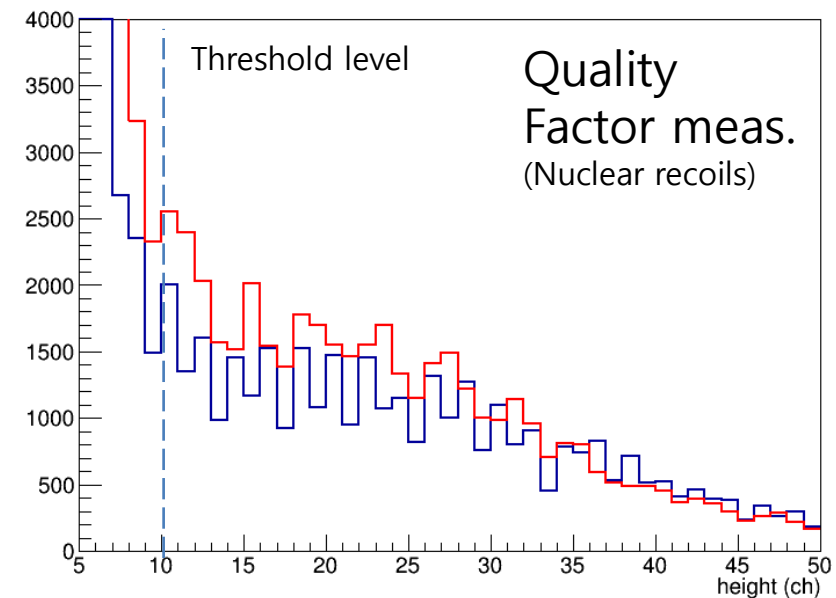
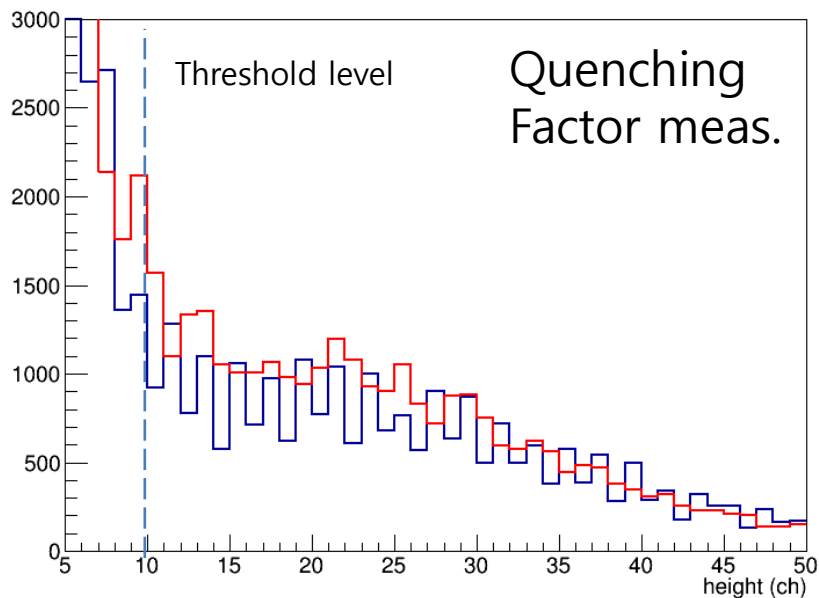
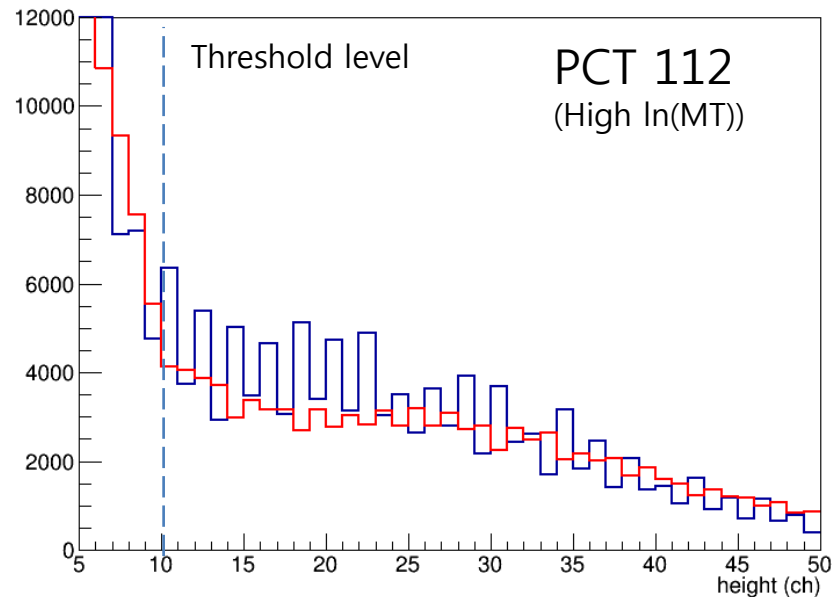
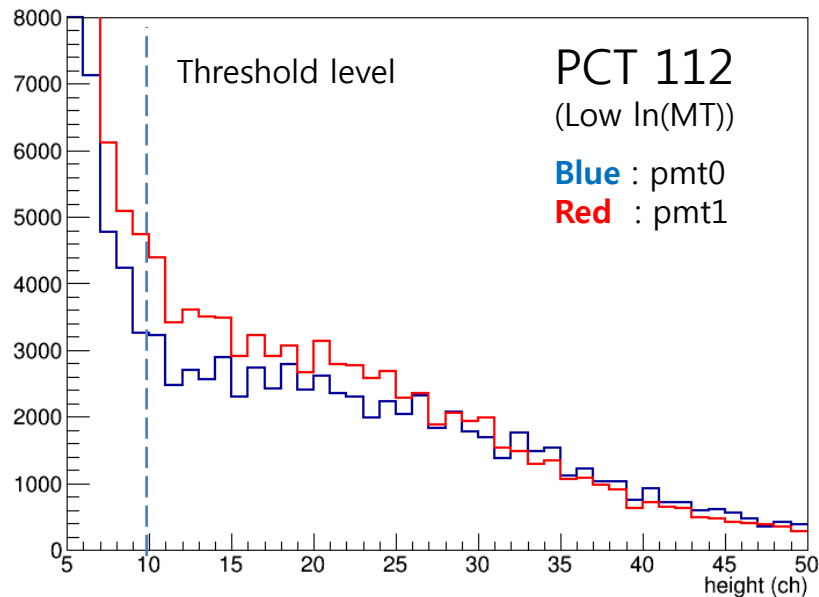
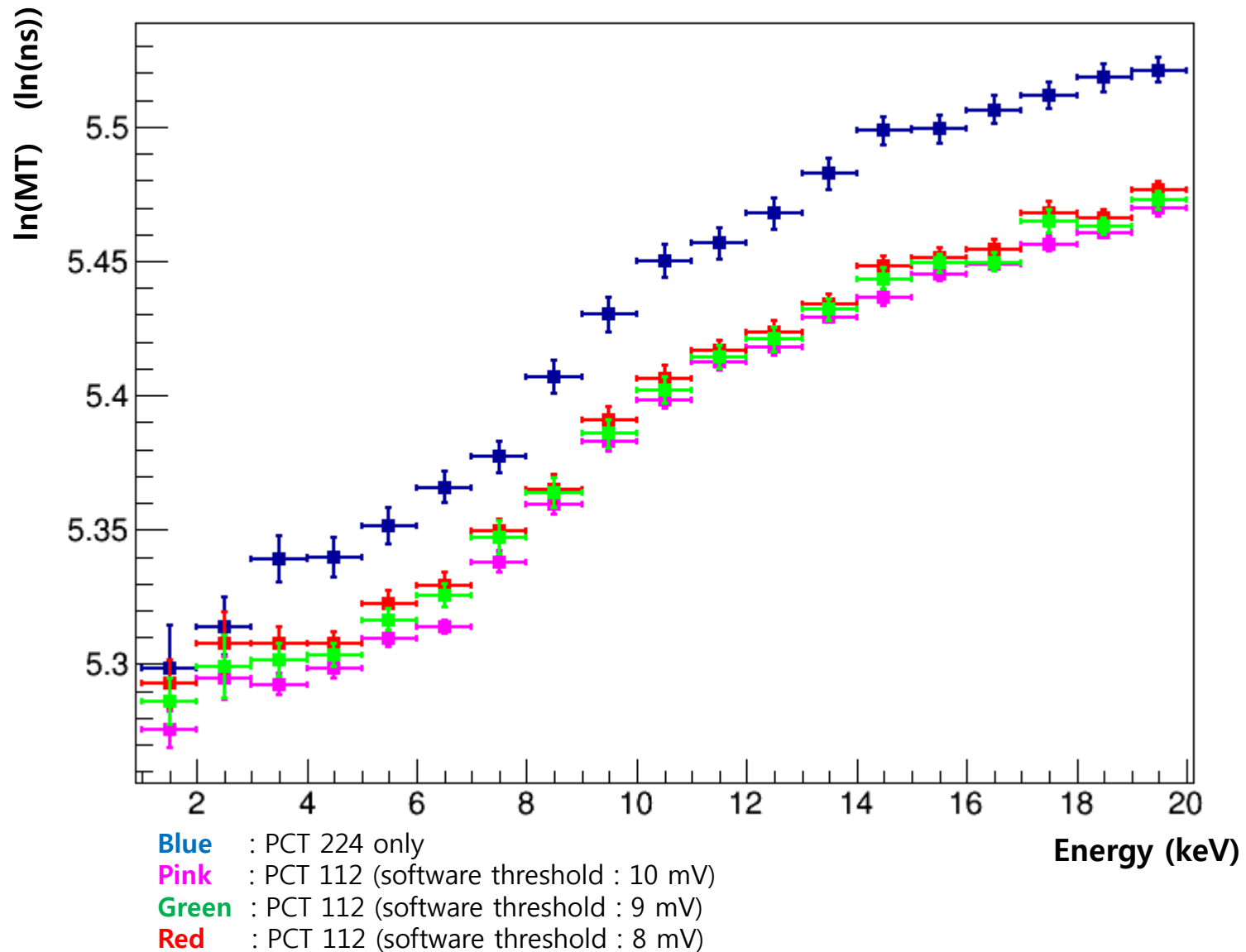


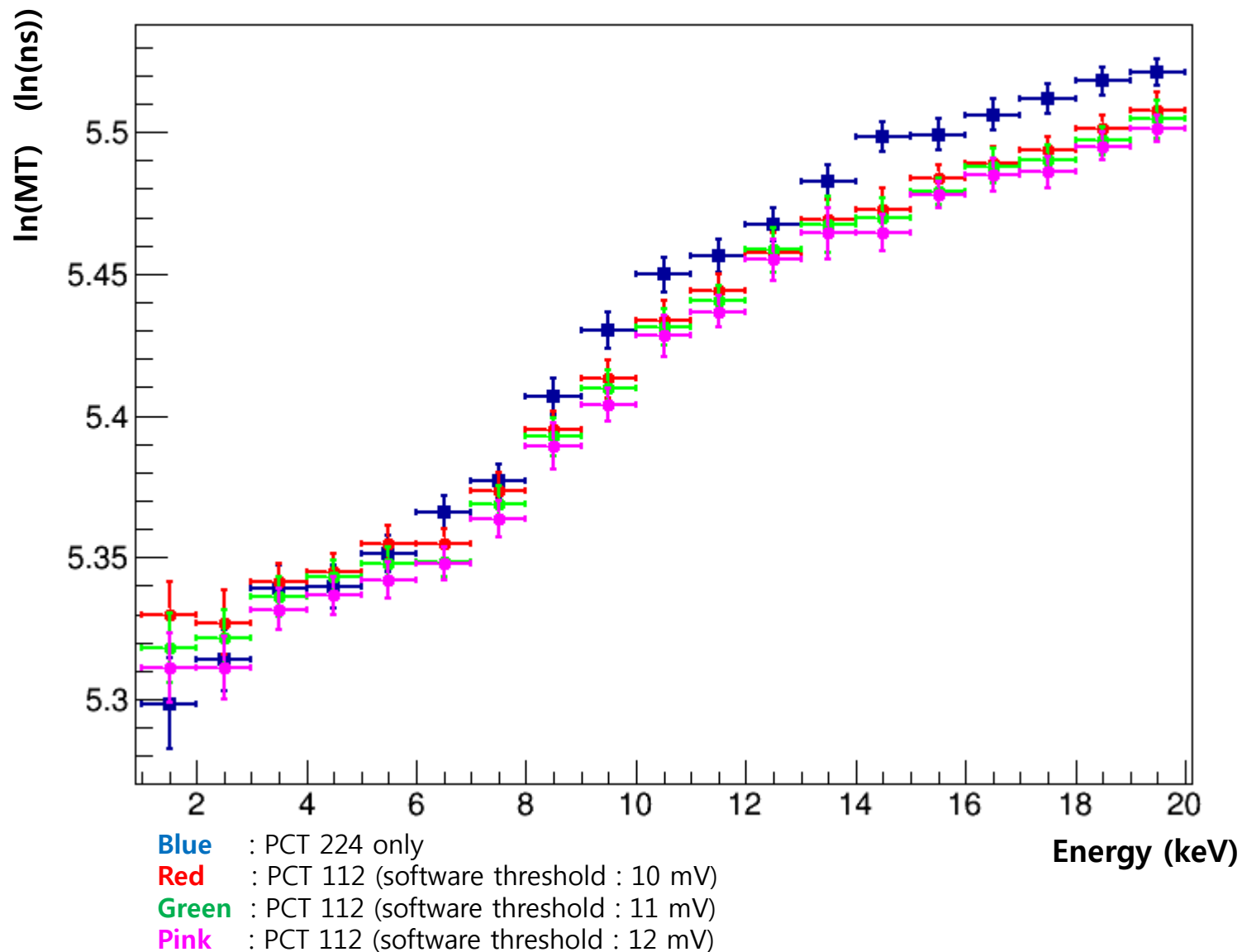
Pulse height distribution (With Am241 calibration data)

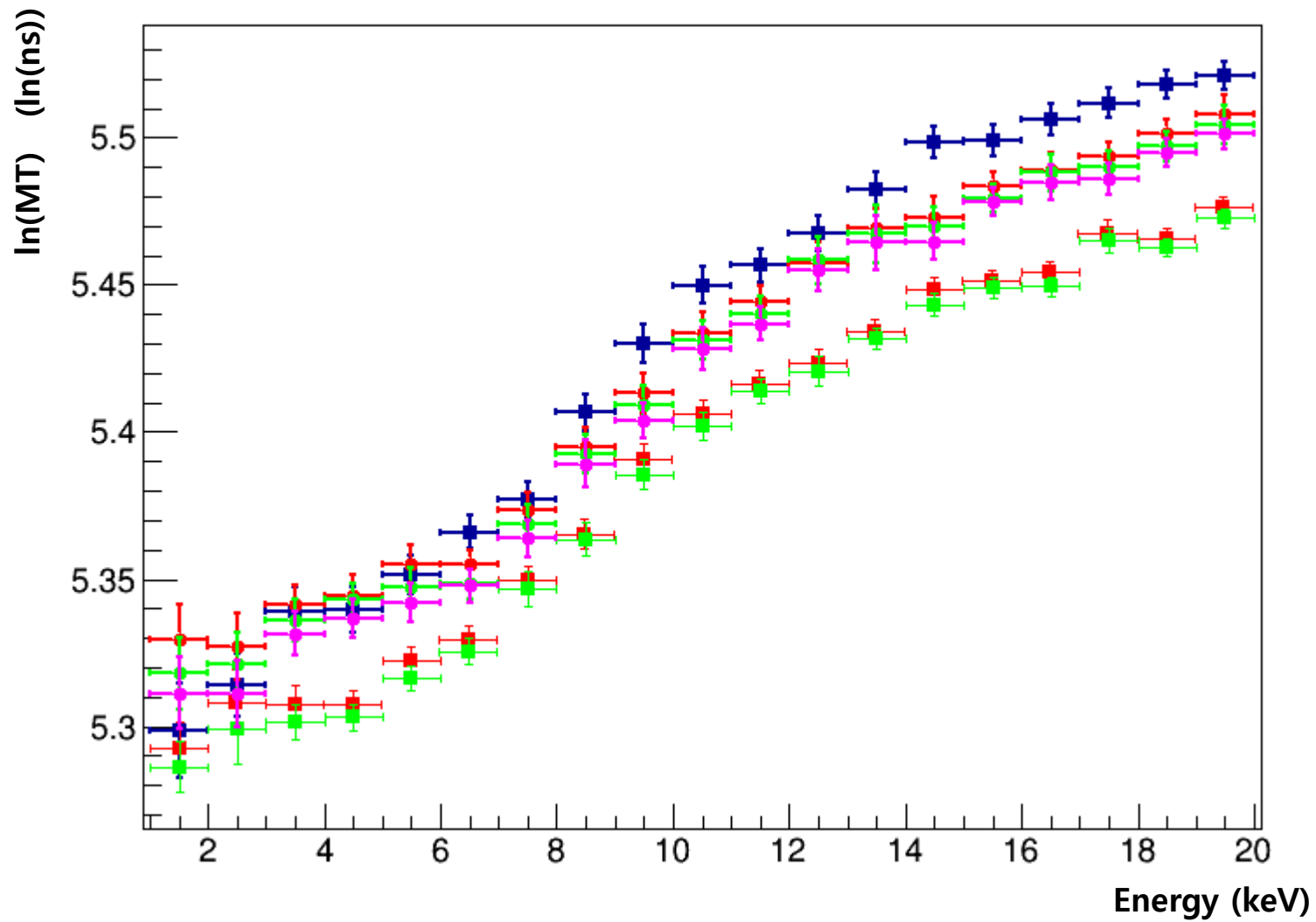


ln(MT) – low gain

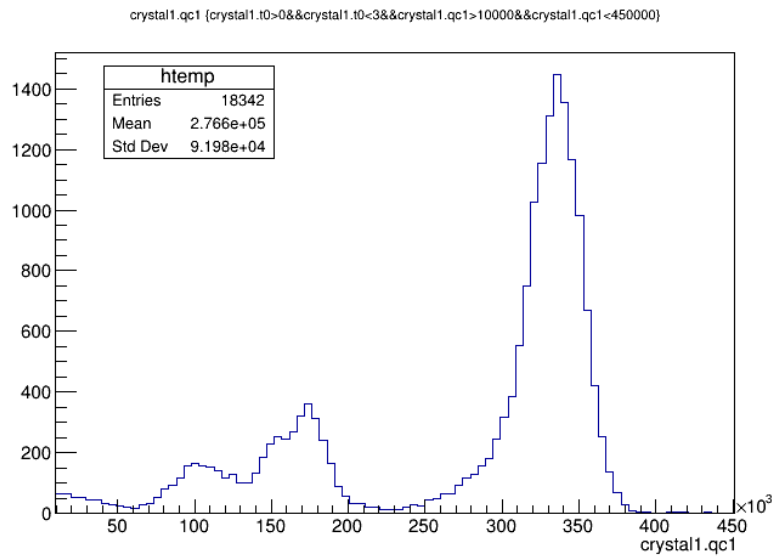


ln(MT) – high gain

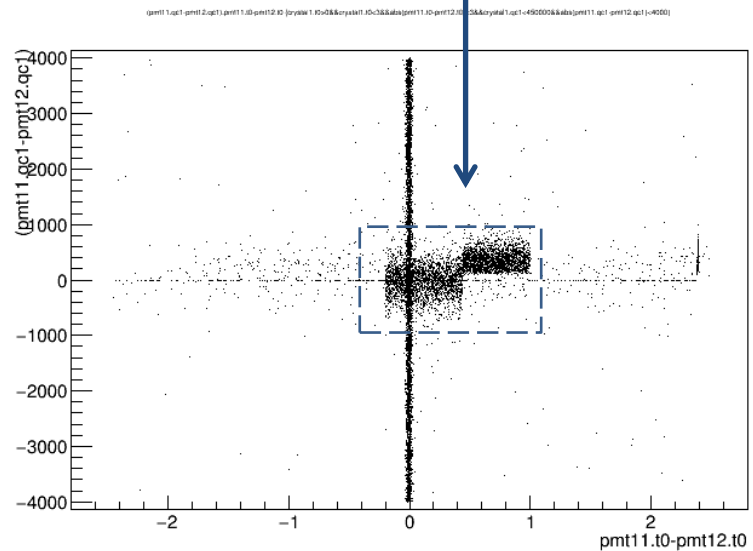
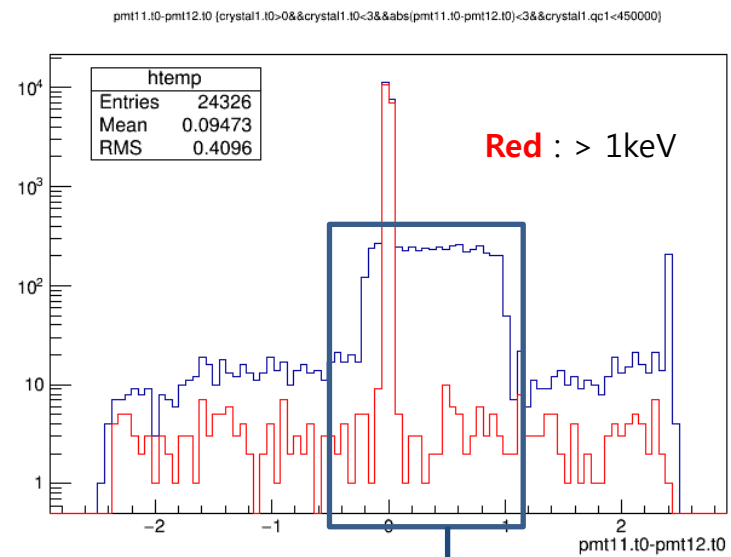




Calibration with 241 Am source



~15 cm from the NaI crystal (~ 90 Hz)

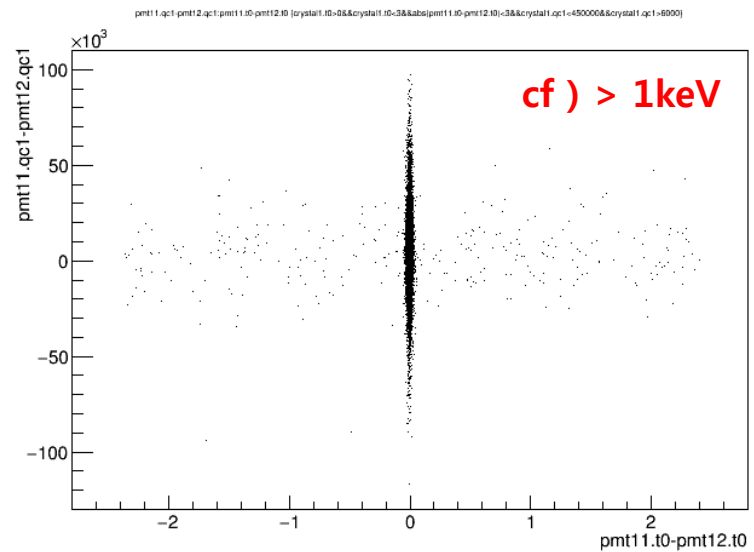
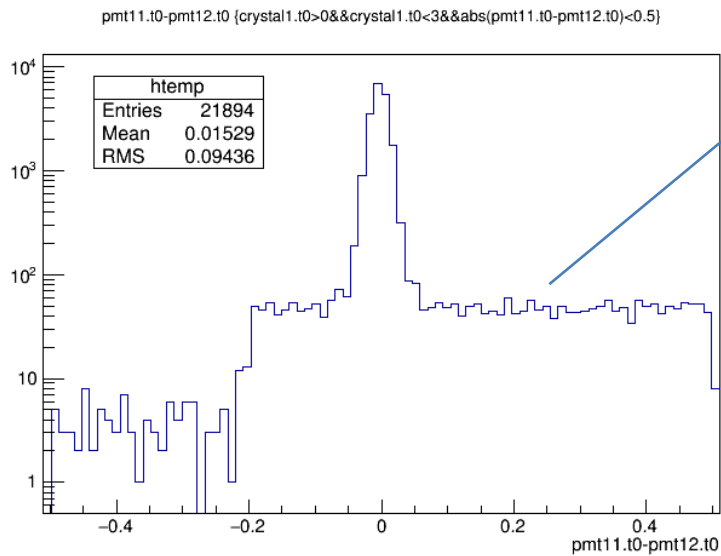
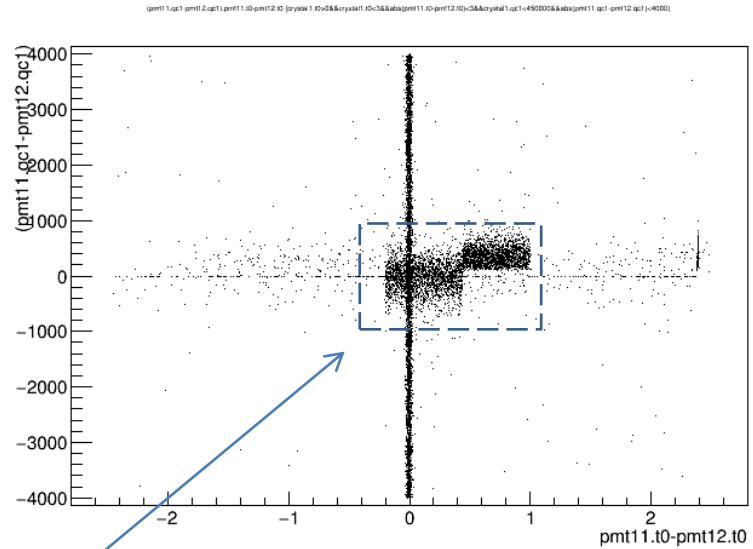
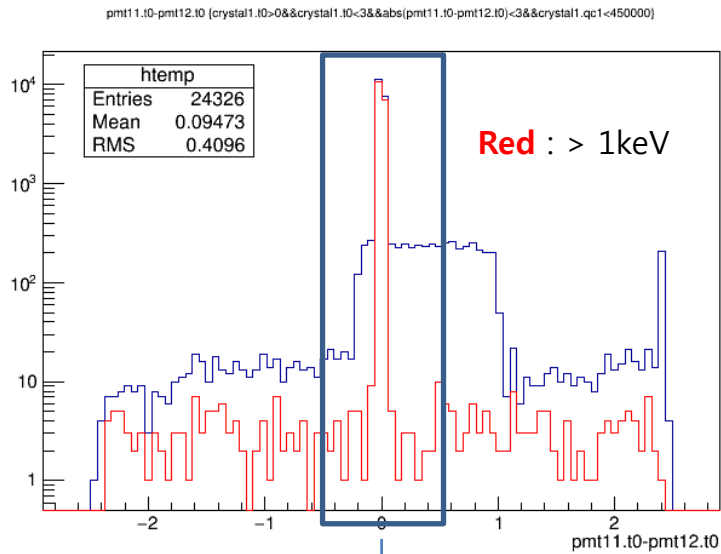


Plans

- **Wait new tuner for neutron generator and test**
- **Learn how to use DAQ / Analysis codes for new DAQ sys.**
- **Test run with new DAQ system**
(set new (higher) HVs for PMTs, DAQ with ND signals, etc)
- **Calculate mean decay time with leading edge, not t_0**
- **Compare results of SNU / KRISS / Y2L**

Backup Slides

Time difference of two PMTs

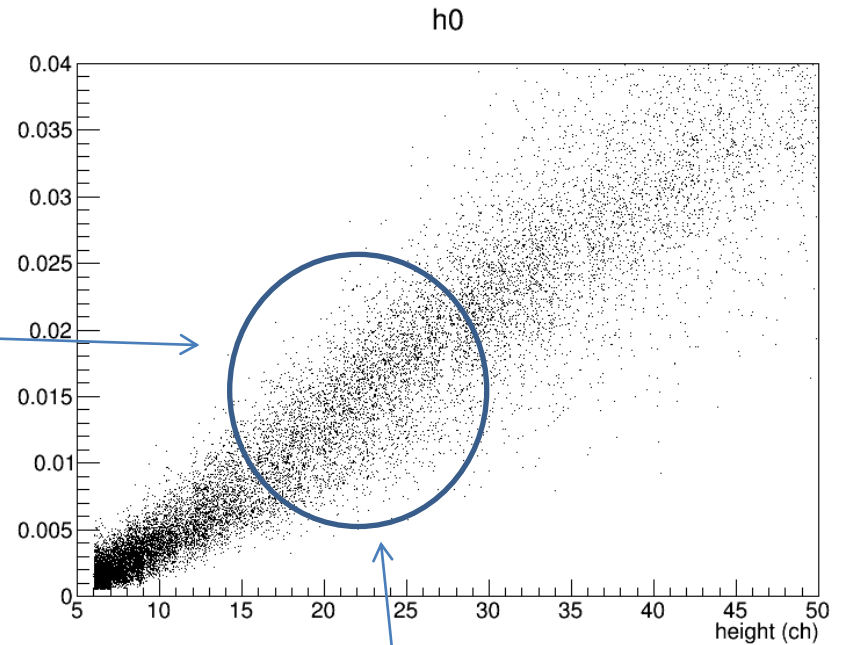
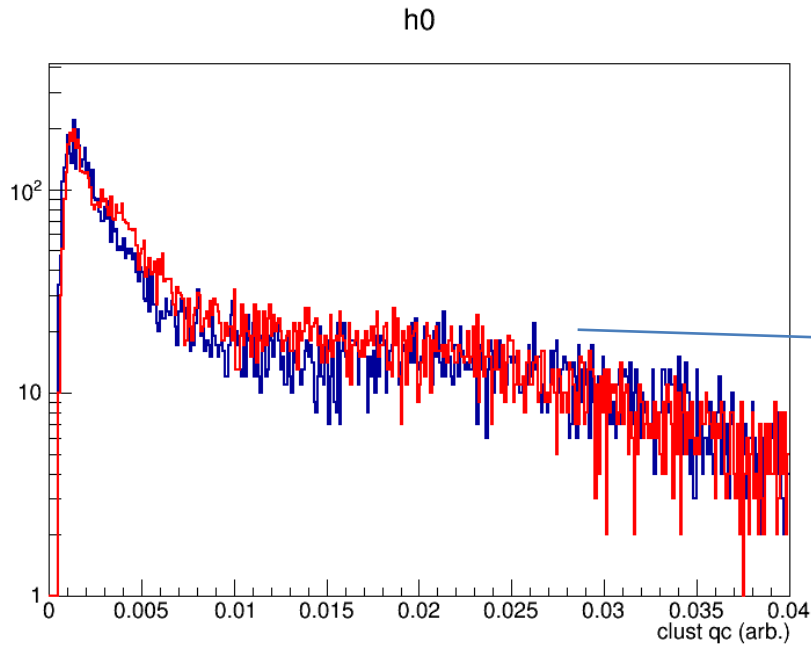


PMT gains for each data set

	PMT0 HV	PMT1 HV	pmt0.qc	pmt1.qc	det0.qc
SNU	1100	950	7.47	9.66	17.13
PCT 224 (wrong trg)	1140	1025	8.07	8.77	16.84
PCT 112 (fixed trg)	1170	985	7.68	7.88	15.56
New	1170	1015	8.44	8.25	16.69

pmt.qc : charge sum in ch. unit for 60 keV from Am241

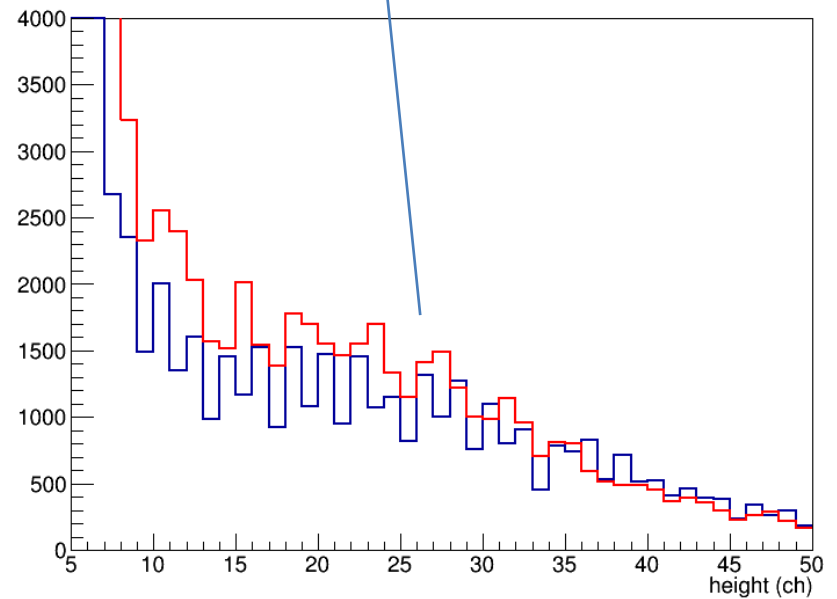
Pulse height distribution (With Am241 calibration data)



$$8.285 : 59.54 \text{ (keV)} = 0.02 : X \text{ (keV)}$$

-> $X = 0.144 \text{ (keV)}$

(= 6.96 P.E per keV)



Time difference of two PMTs

