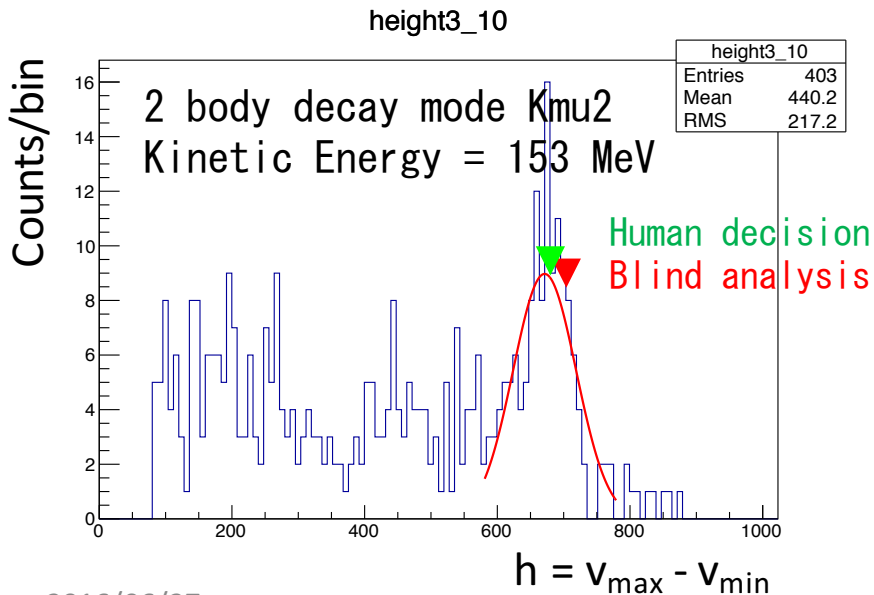
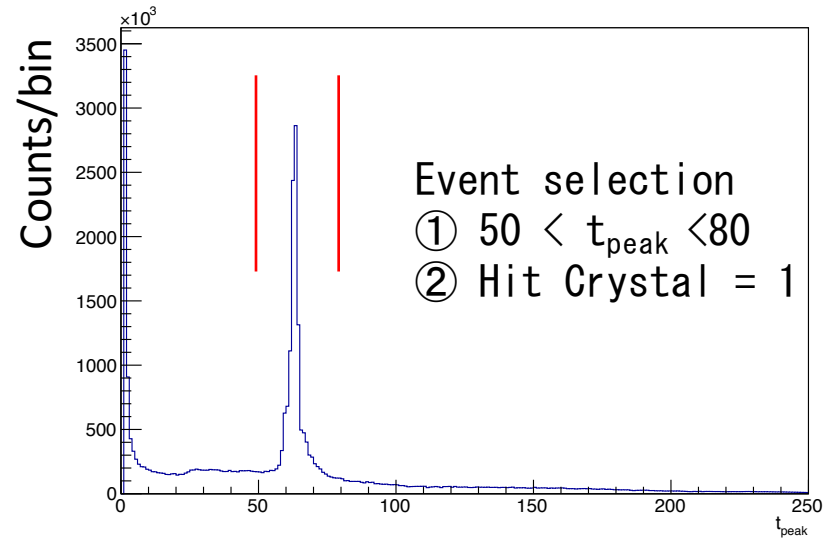
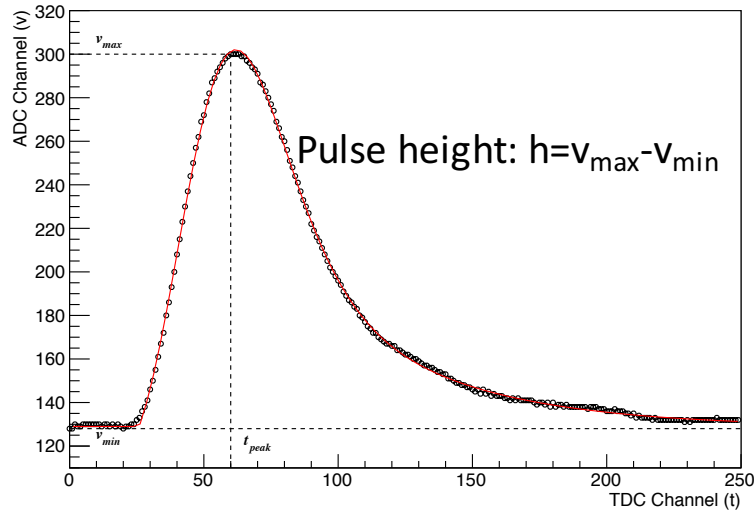


Analysis Progress

Calibration of CsI(Tl) photon detector

H. Ito
Chiba Univ.
2016.06.27

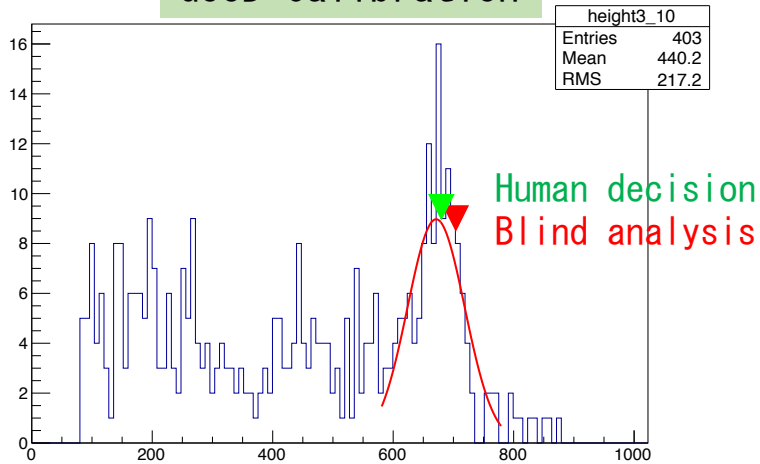
Typical waveform & Energy calibration using $K\mu 2$



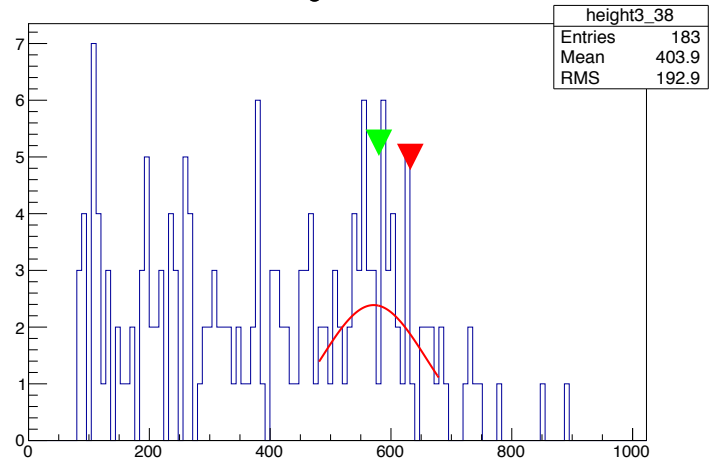
Total 768 crystal channels
Calibration run:
#3059–3067
#4519–4551

RUN3059-3067 DATAS

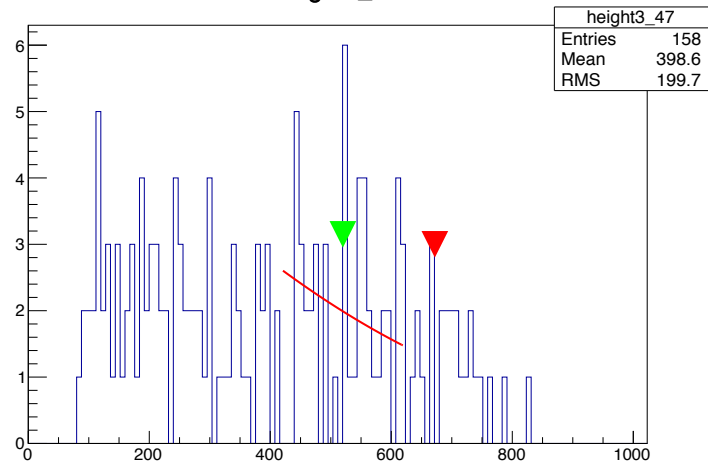
GOOD Calibration



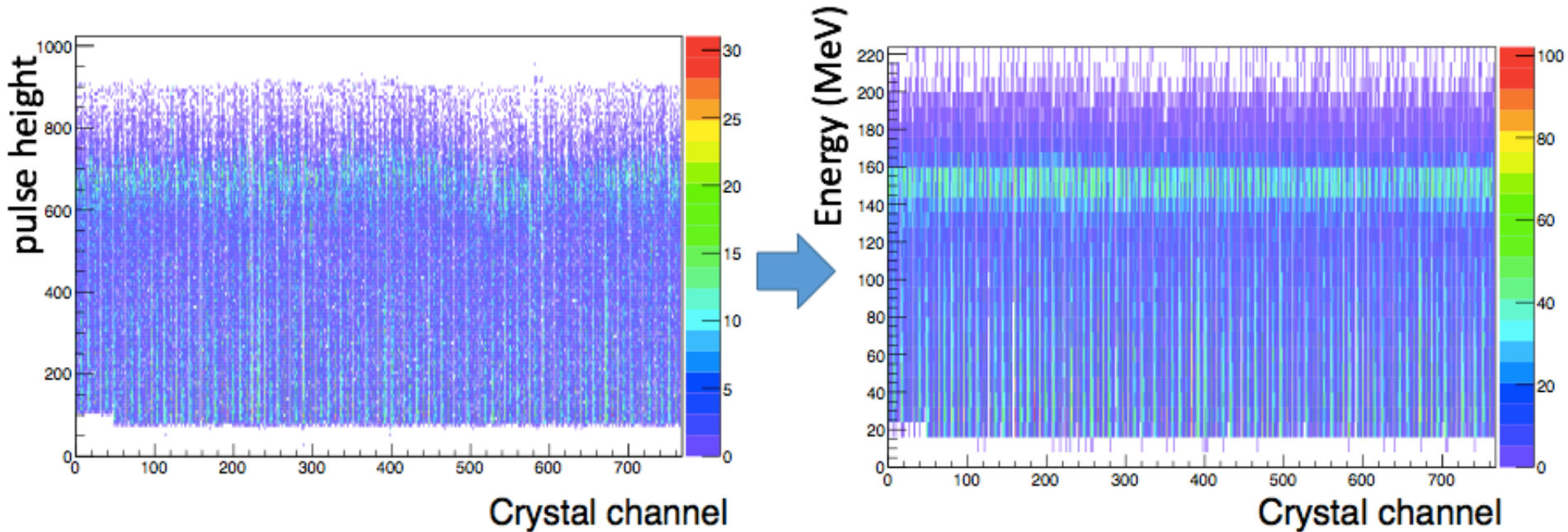
UNCERTAIN by lower statistics



height3_47



Calibration Result

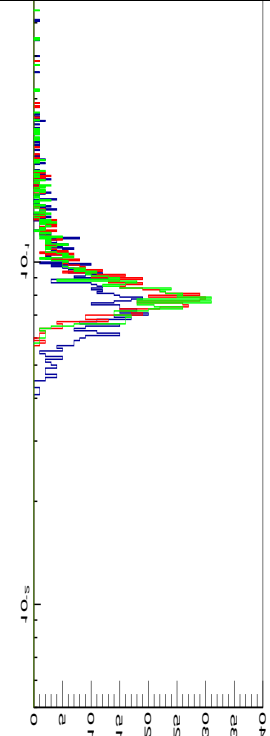
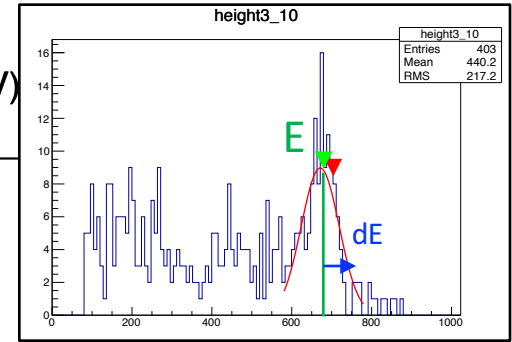
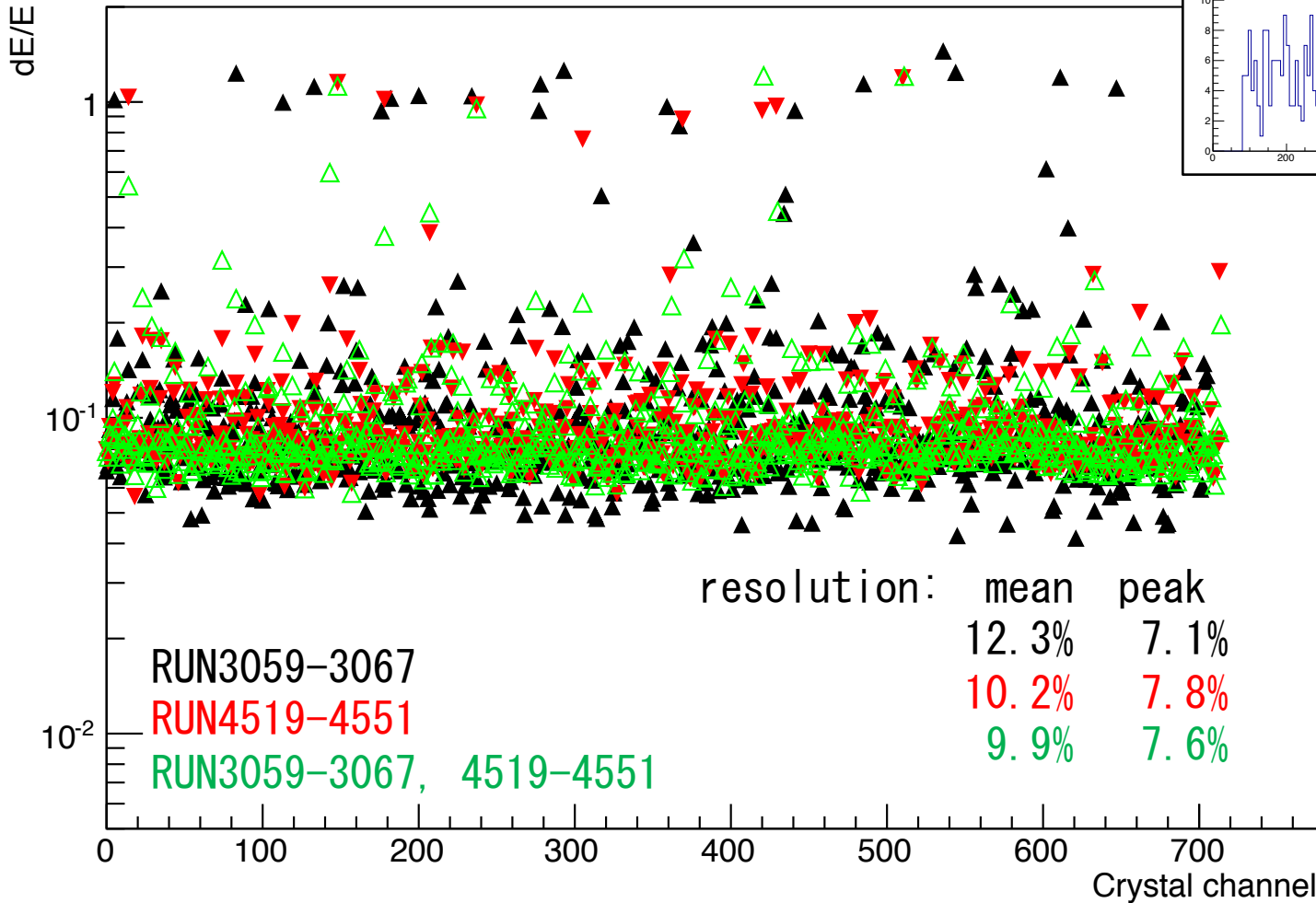


Total 768 crystal channels
GOOD & Low Stat. ... 708
UNDESIDED channel... 12
Empty channel ... 42
reference channel... 6

Mean Convert Coefficient
0.22 MeV/ADC

Energy Resolution

Energy Resolution of CsI(Tl) photon detector by Kmu2(152.9 MeV)



Conclusion

Mean Convert Coefficient ... 0.22 MeV/ADC
Energy resolution ... 9.9% (mean)/7.6% (peak)

Total 768 crystal channels

GOOD & Low Stat. ... 715

UNDESIDED channel ... 5

Empty channel ... 42

reference channel ... 6