KU LEUVEN

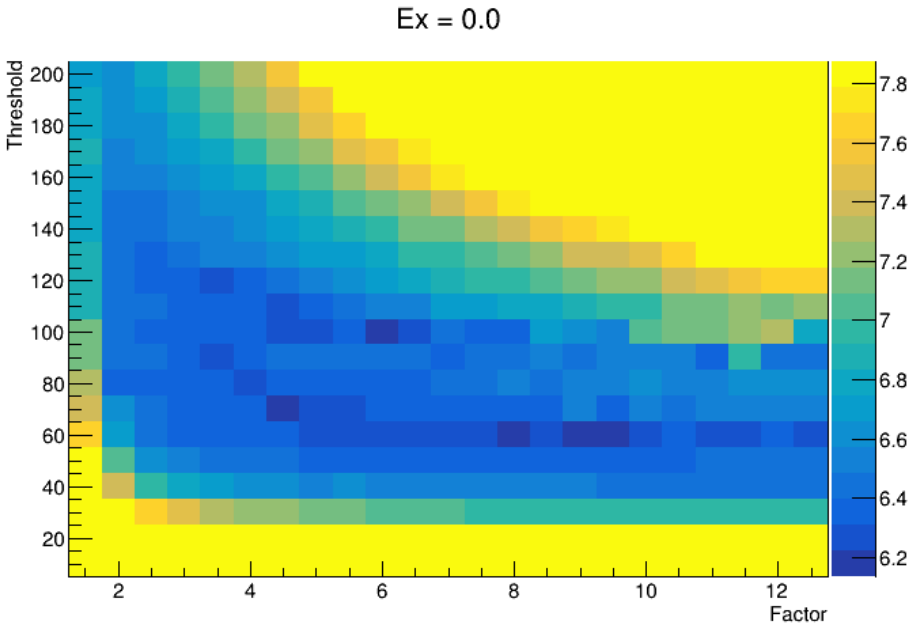
Update muX meeting 15/12

Michael Heines

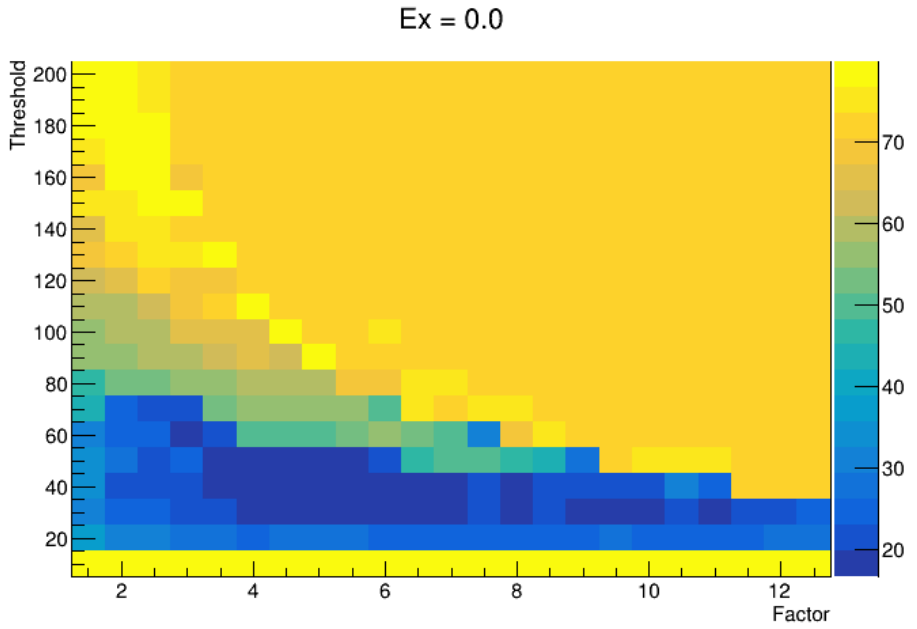
Timing at low energy (test for Andreas)

Optimizing parameters (Ex = 0)

- Optimization around 713 keV

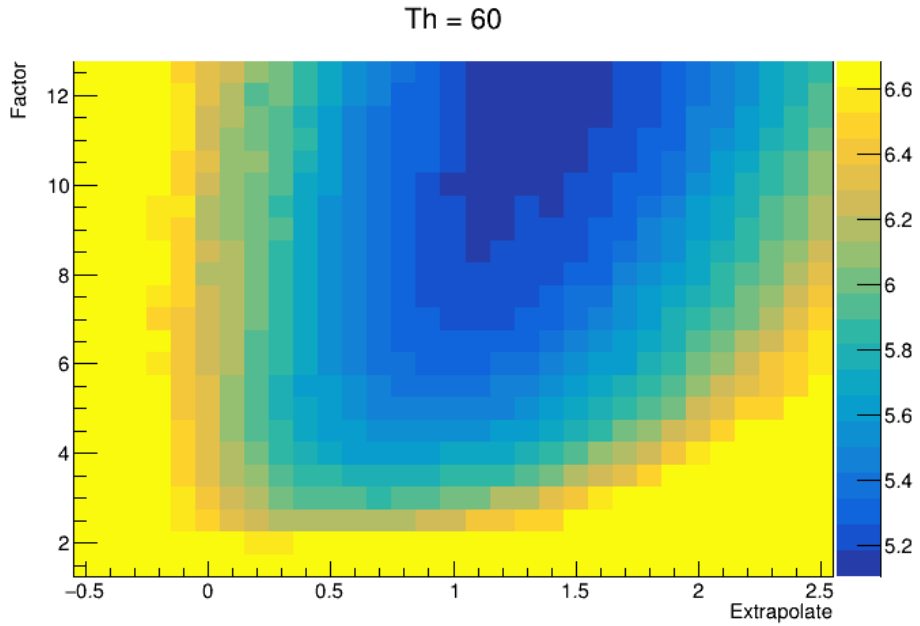


- Optimization around 114 keV

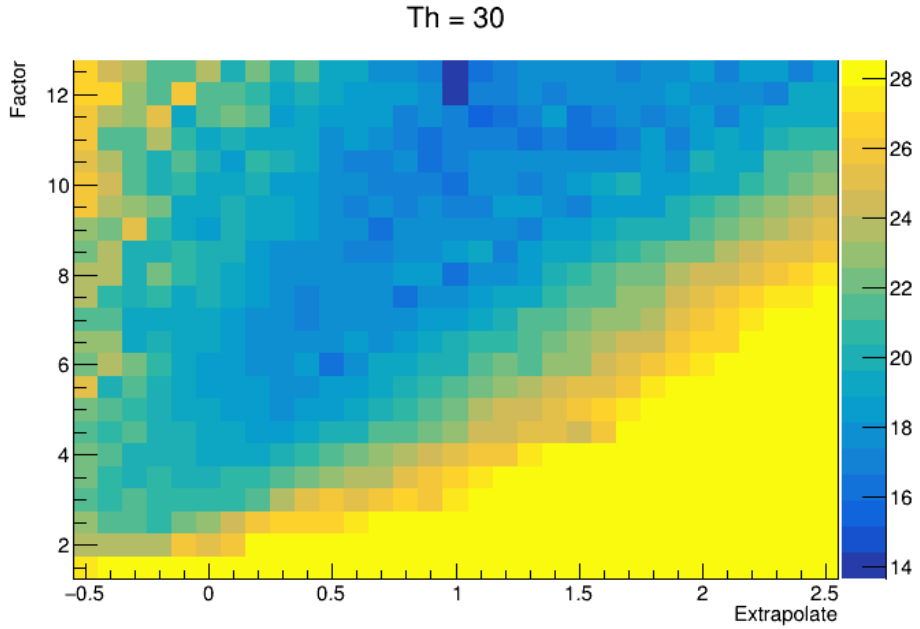


Optimizing parameters (Fixed Th)

- Optimization around 713 keV

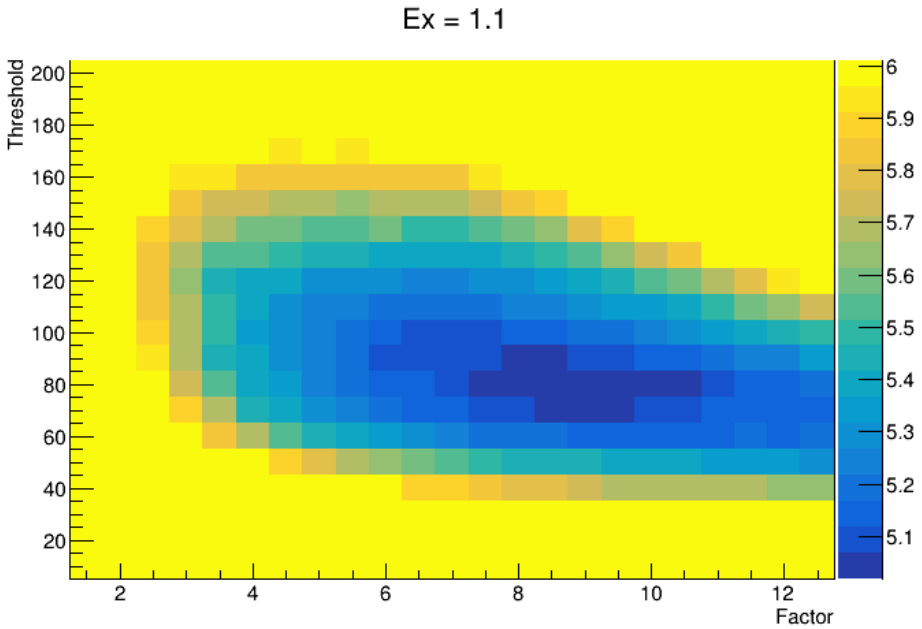


- Optimization around 114 keV

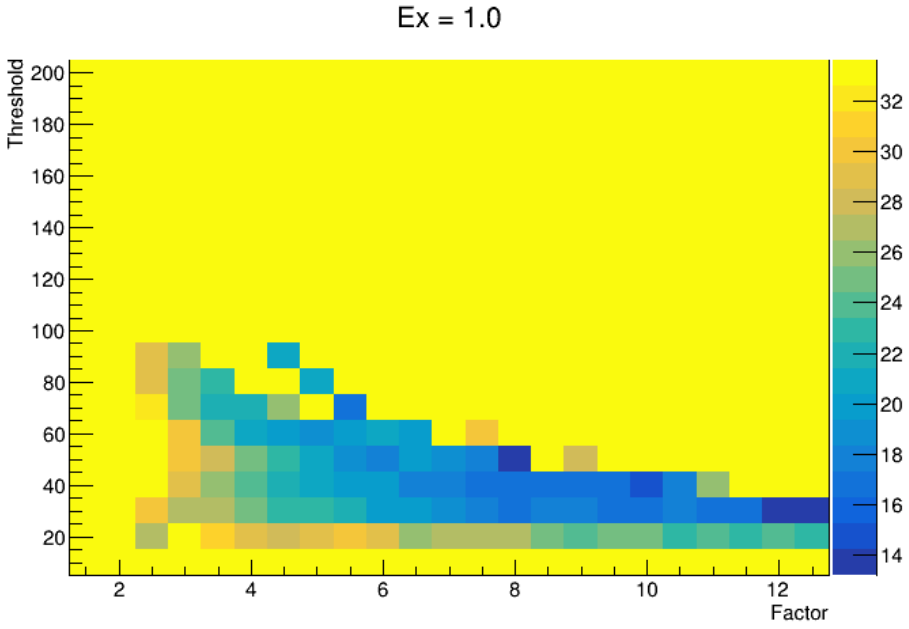


Optimizing parameters (Fixed Ex)

- Optimization around 713 keV

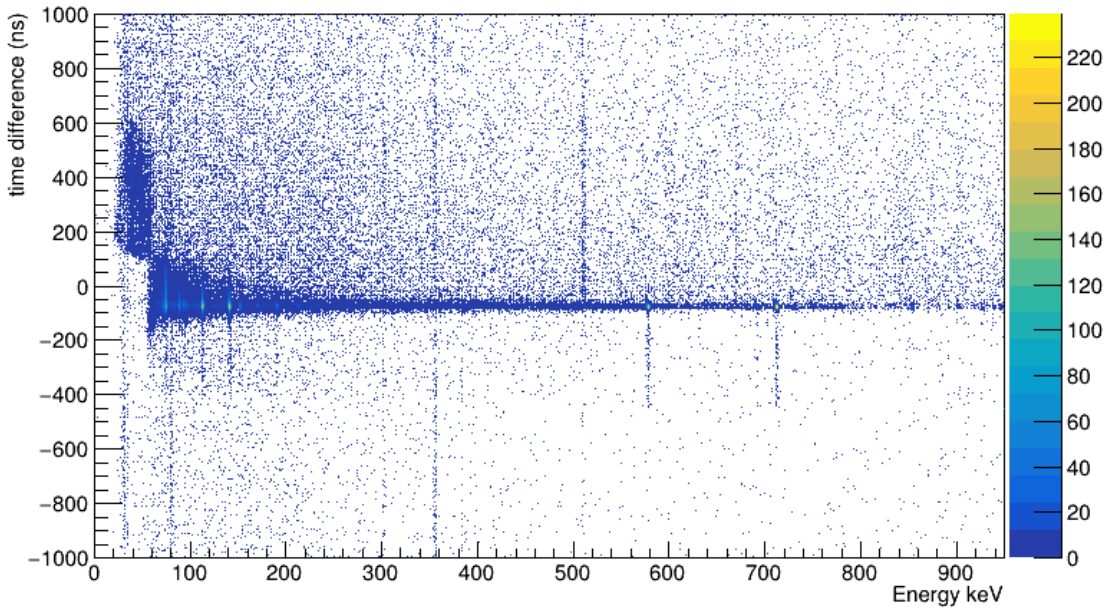


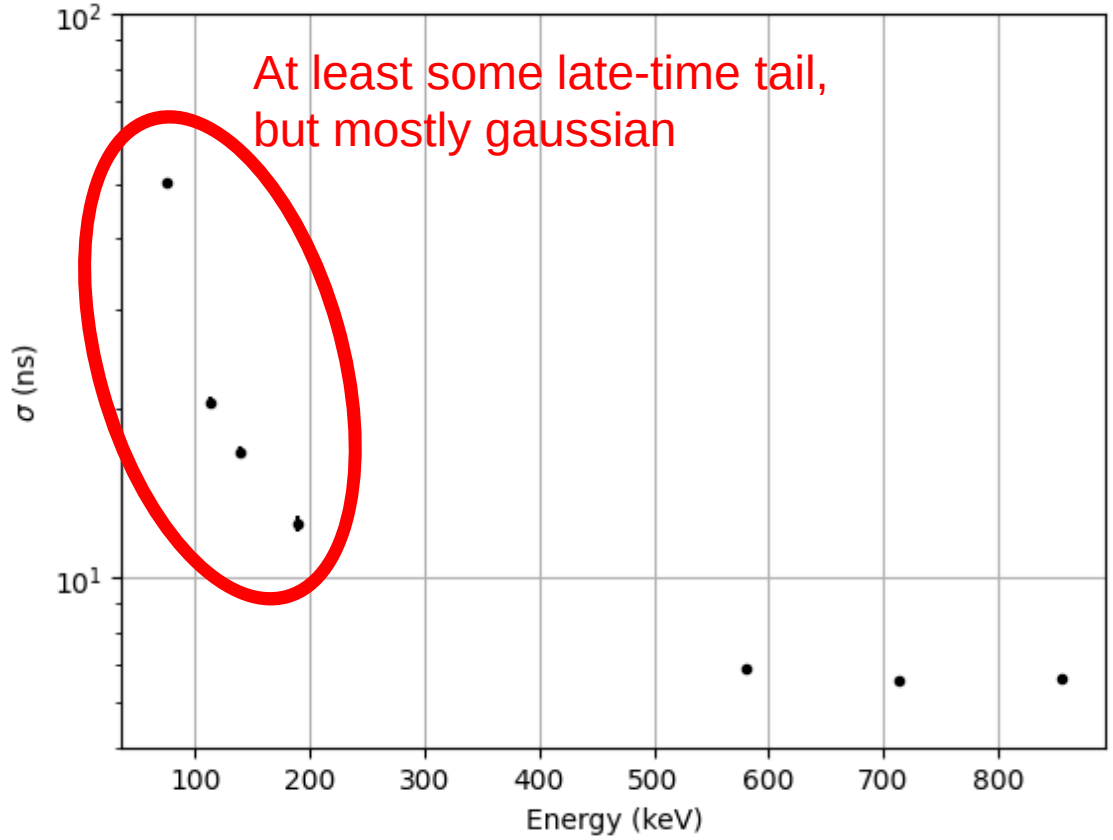
- Optimization around 114 keV



Optimized at low energy

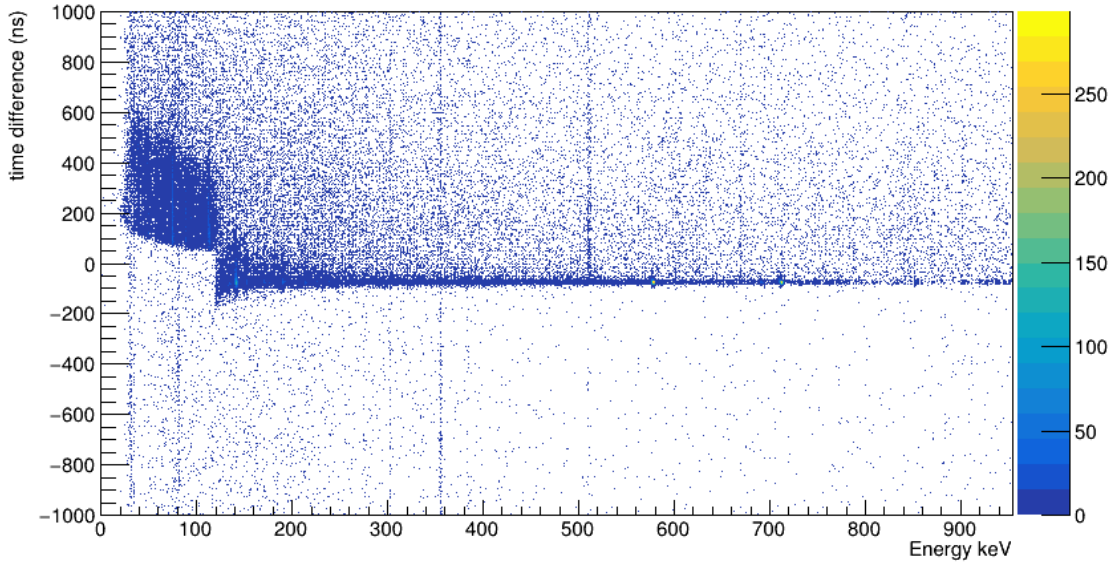
Jump at 60keV (no longer reaching second threshold)

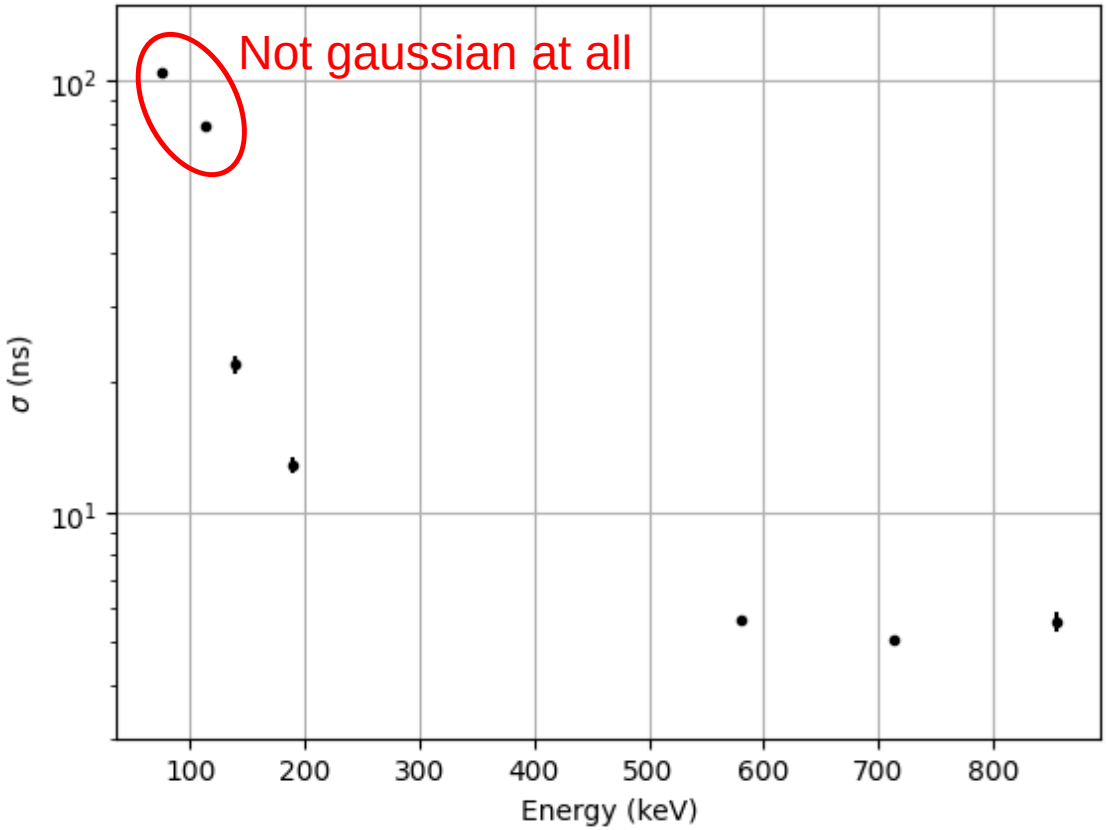




Optimized at low energy

Jump at 120keV (no longer reaching second threshold)

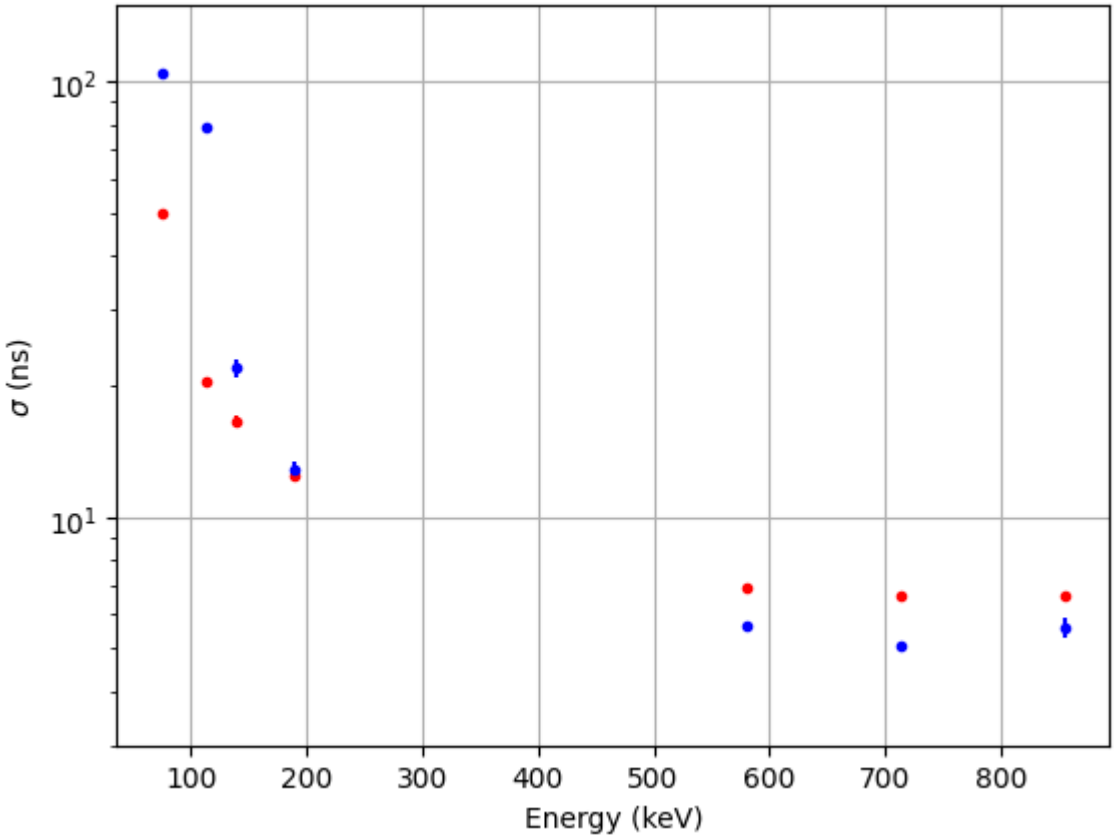




Comparing the time resolutions

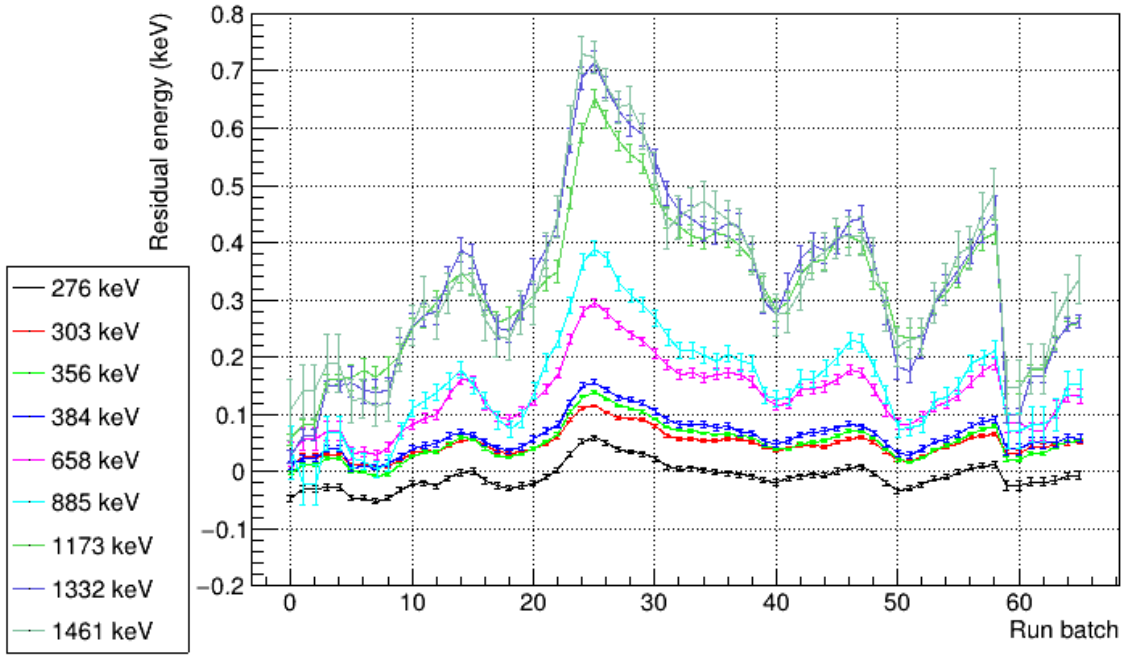
Time offset before offset correction:

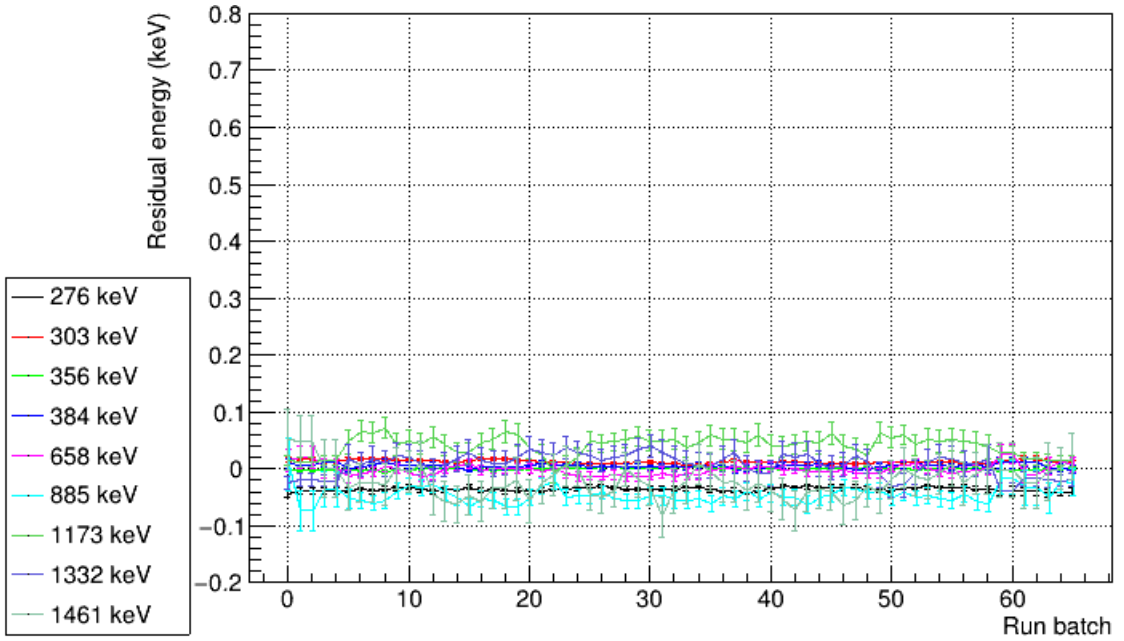
- Optimized at 713 keV → -75.85(10) ns
- Optimized at 140 keV → -77.22(13) ns



Calibration

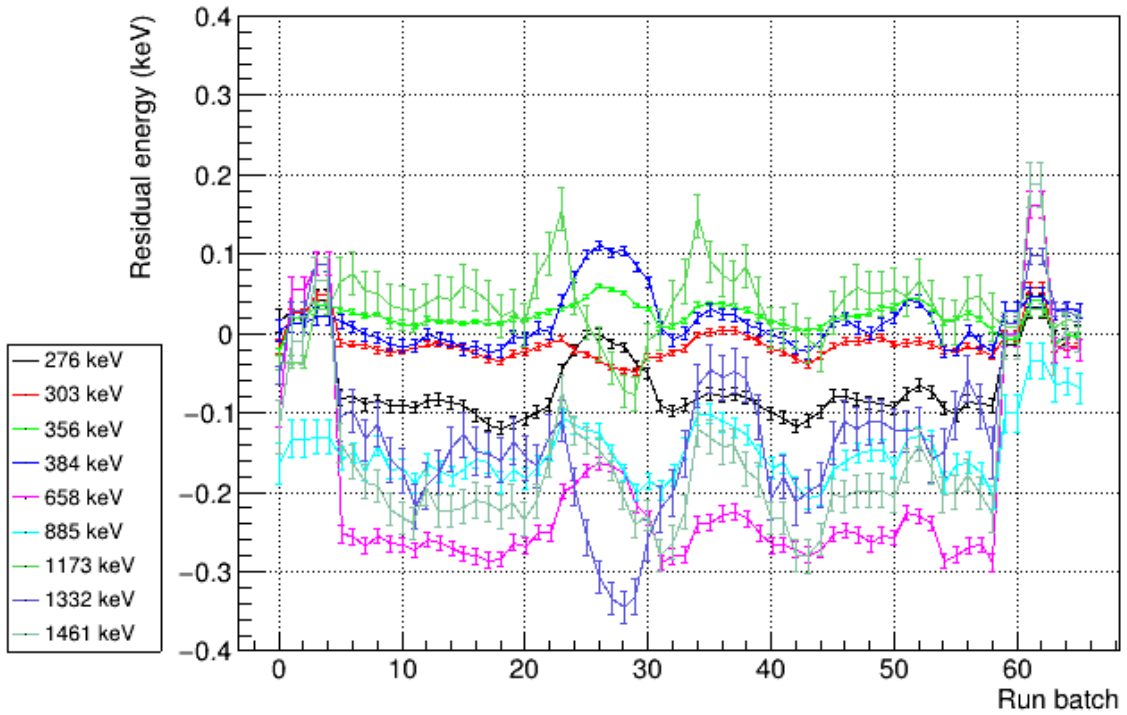
Gain drift – Ge01

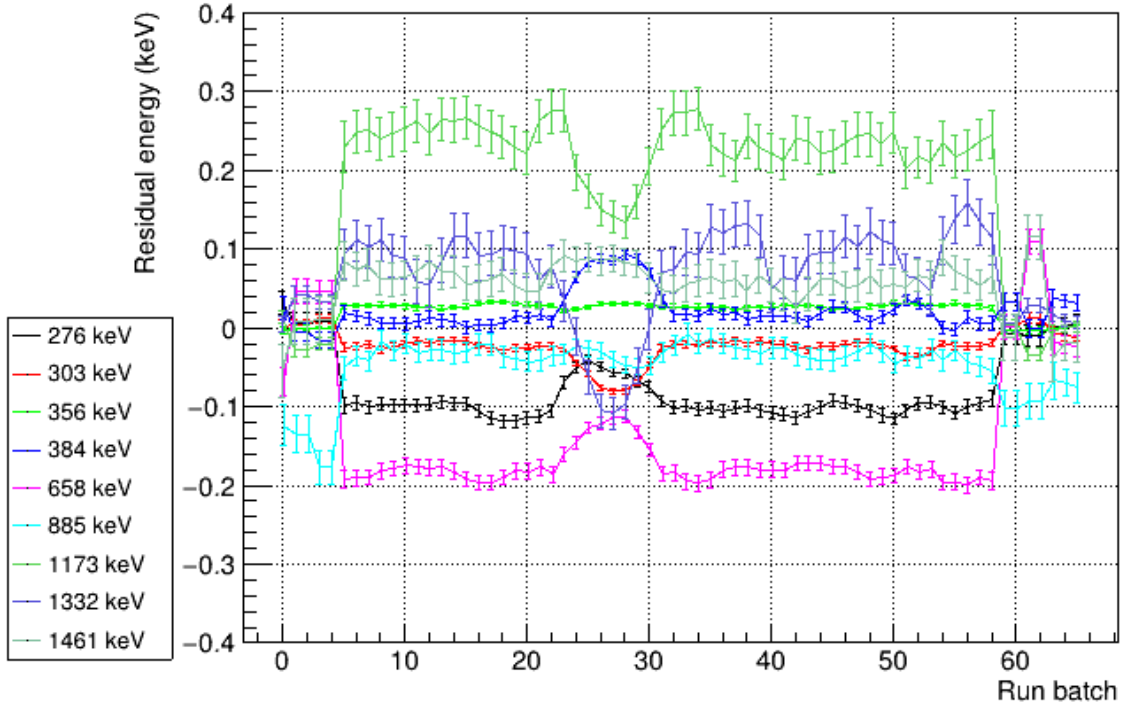




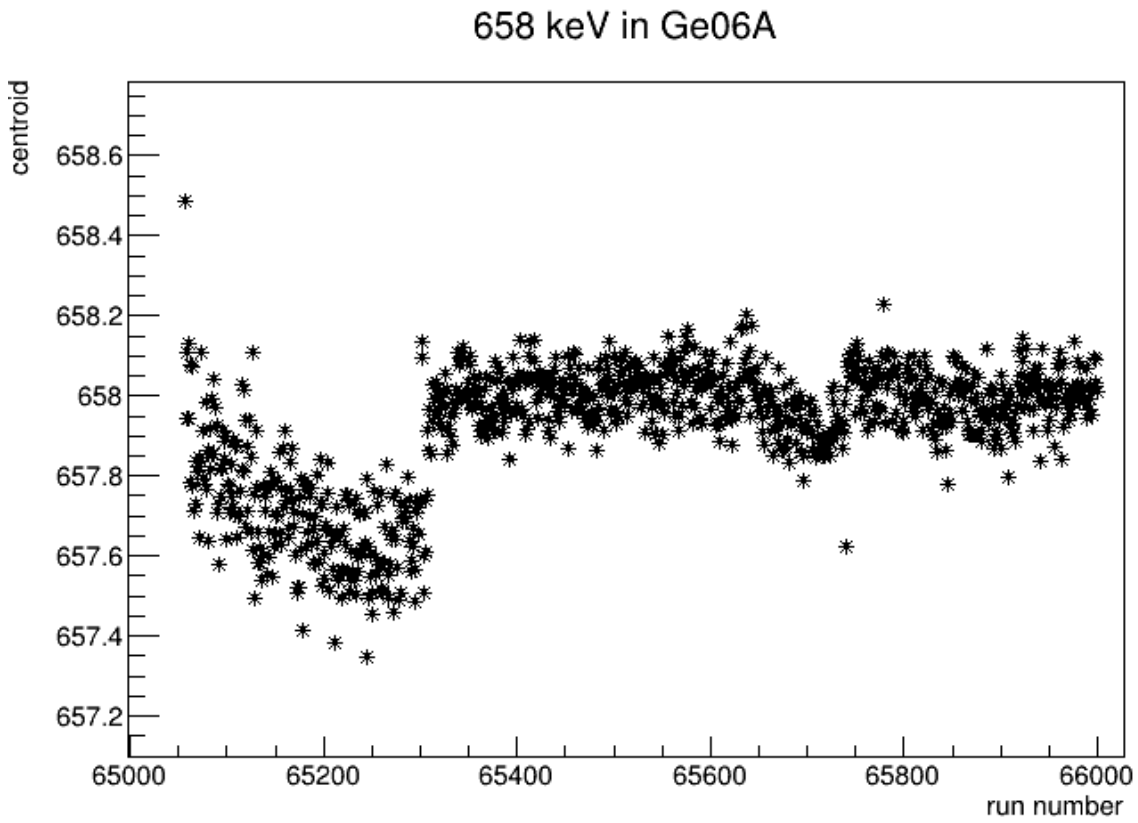
Gain drift – Ge06A

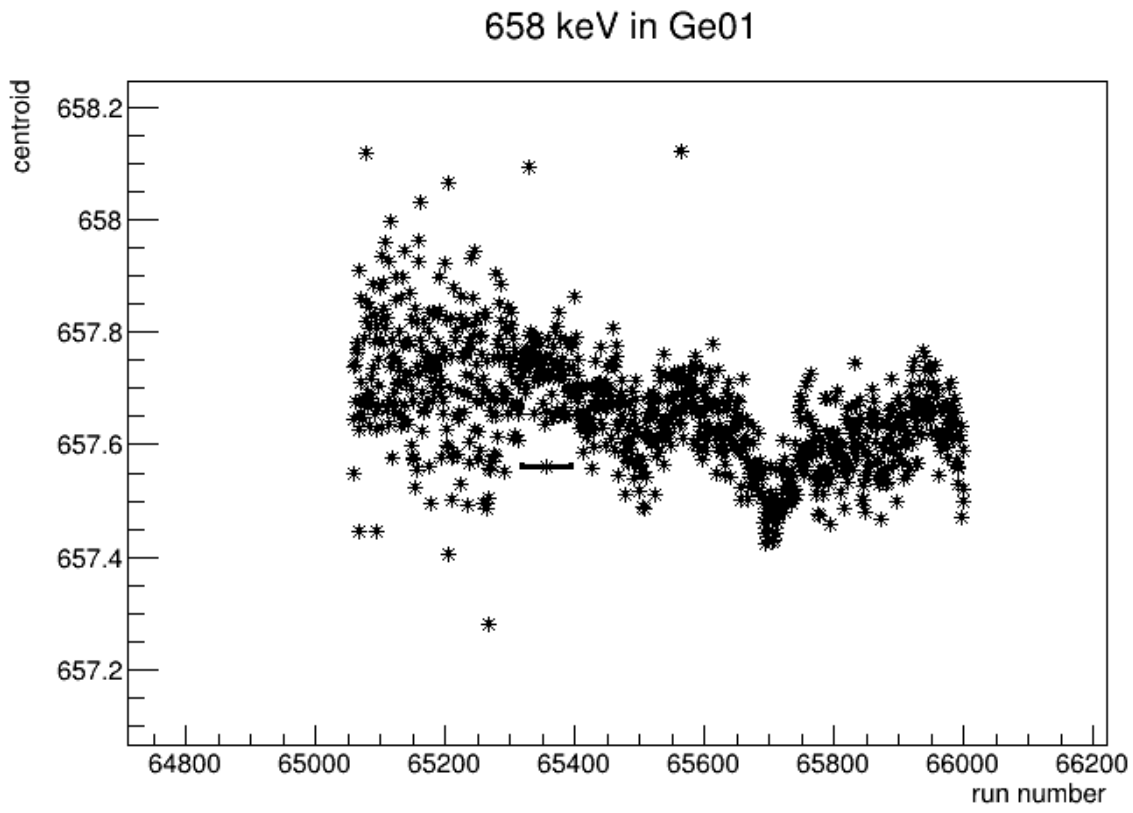
Why still a trend? Why do macroscopic measurements have better residuals?





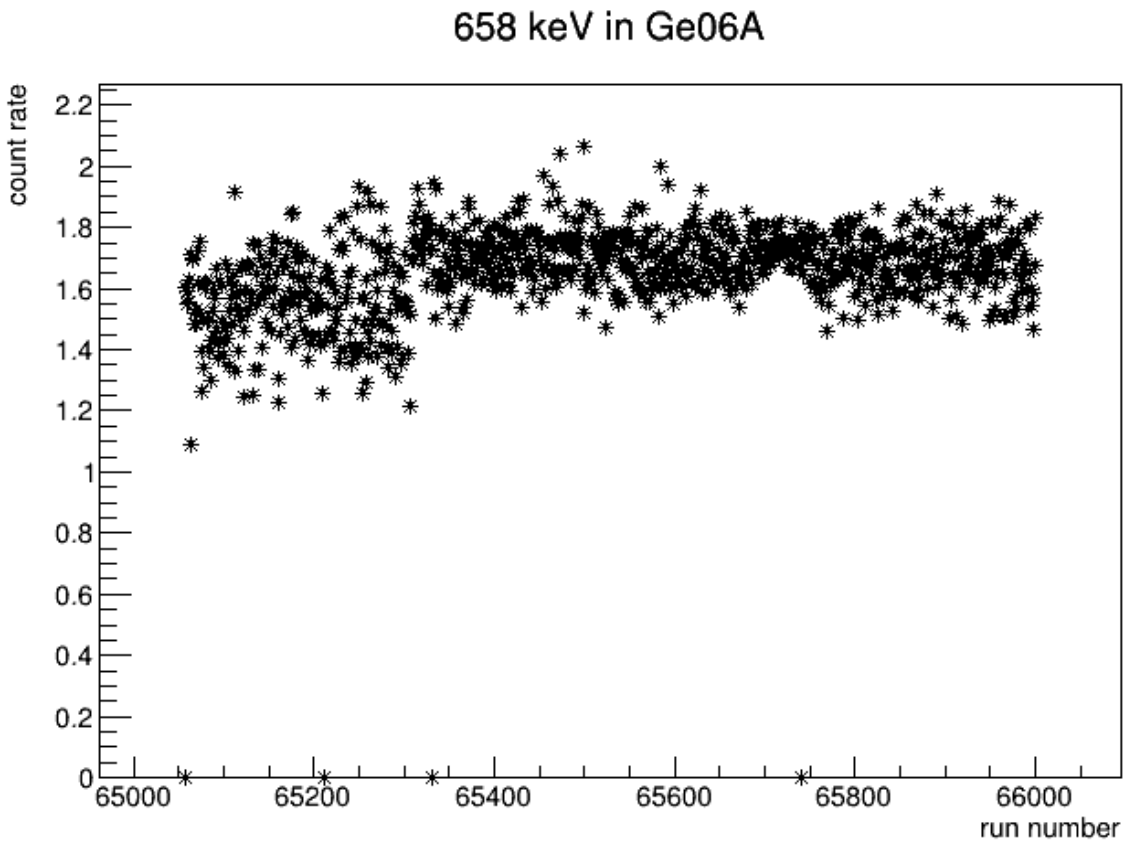
Why is it acting up? – Centroid position



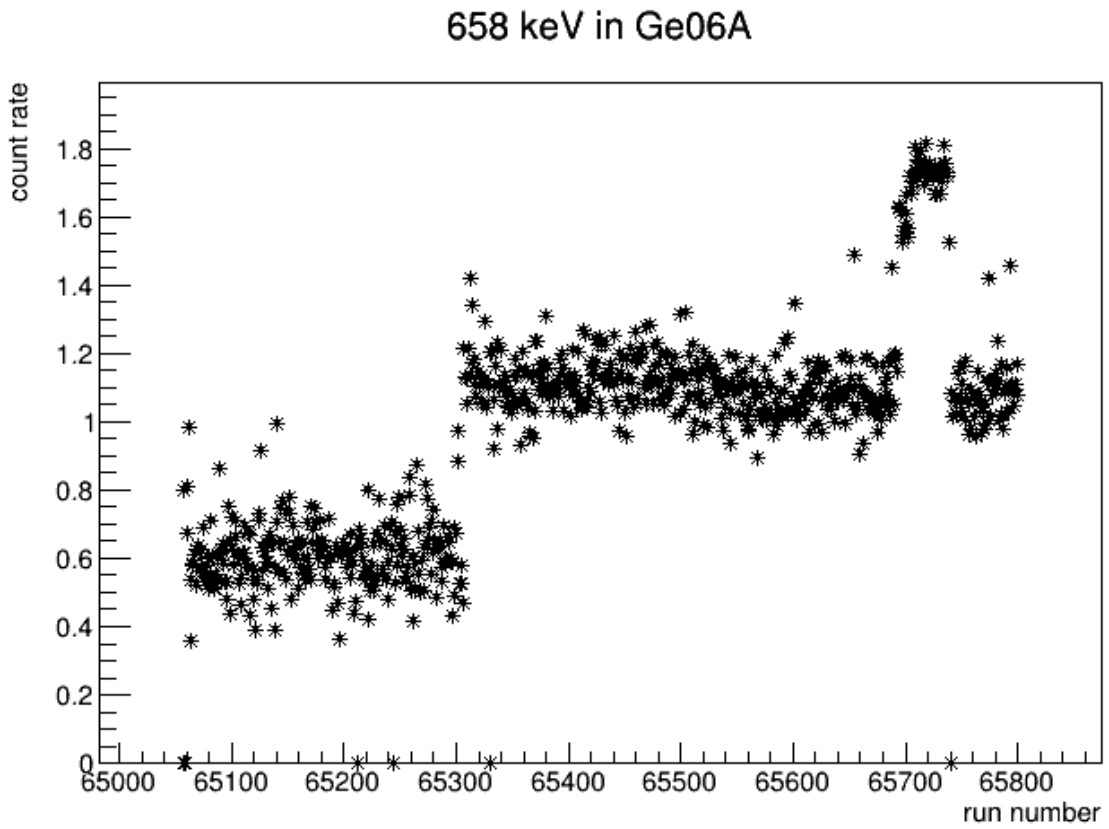


Why is it acting up? – Rate

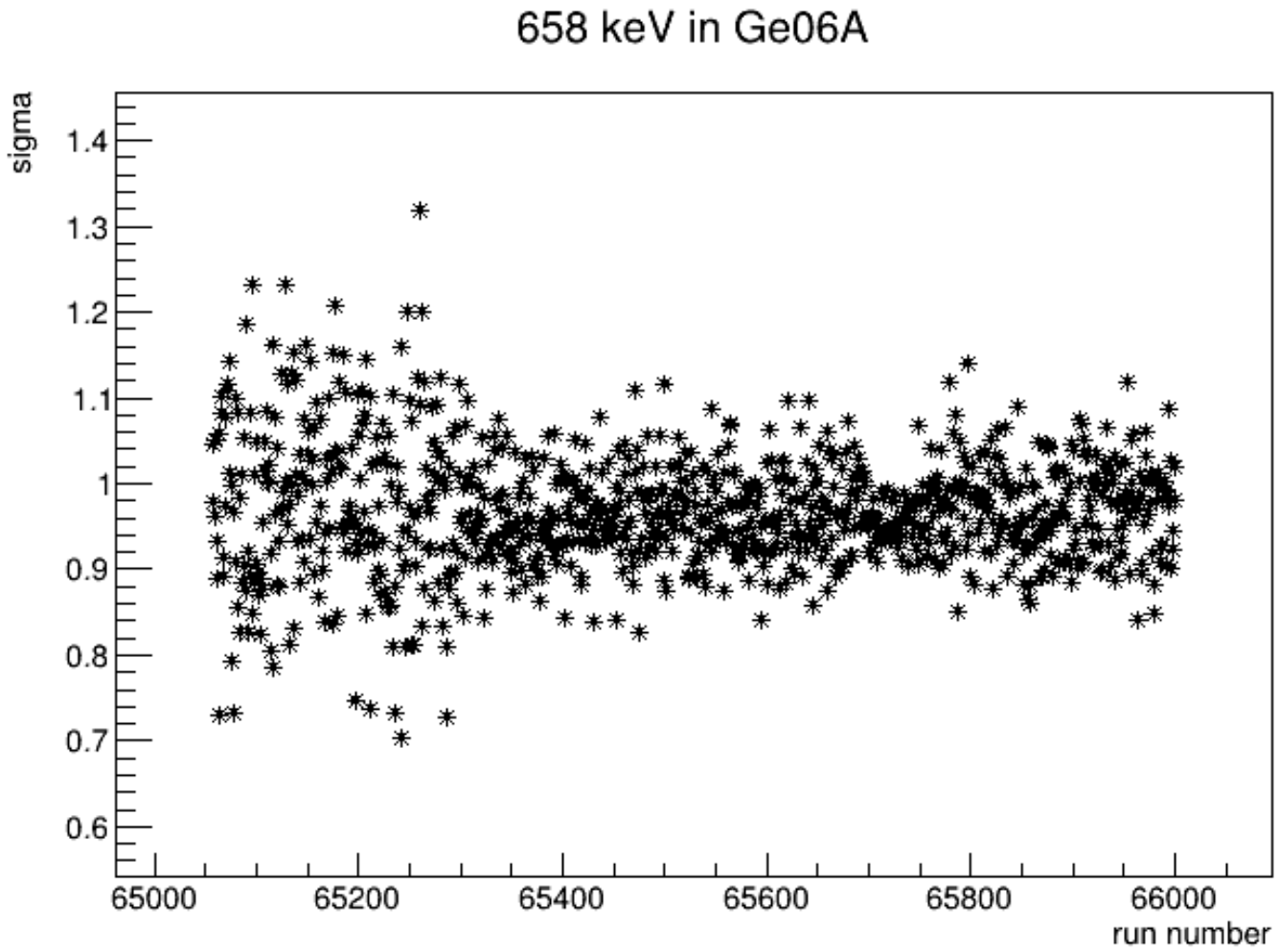
Full spectrum



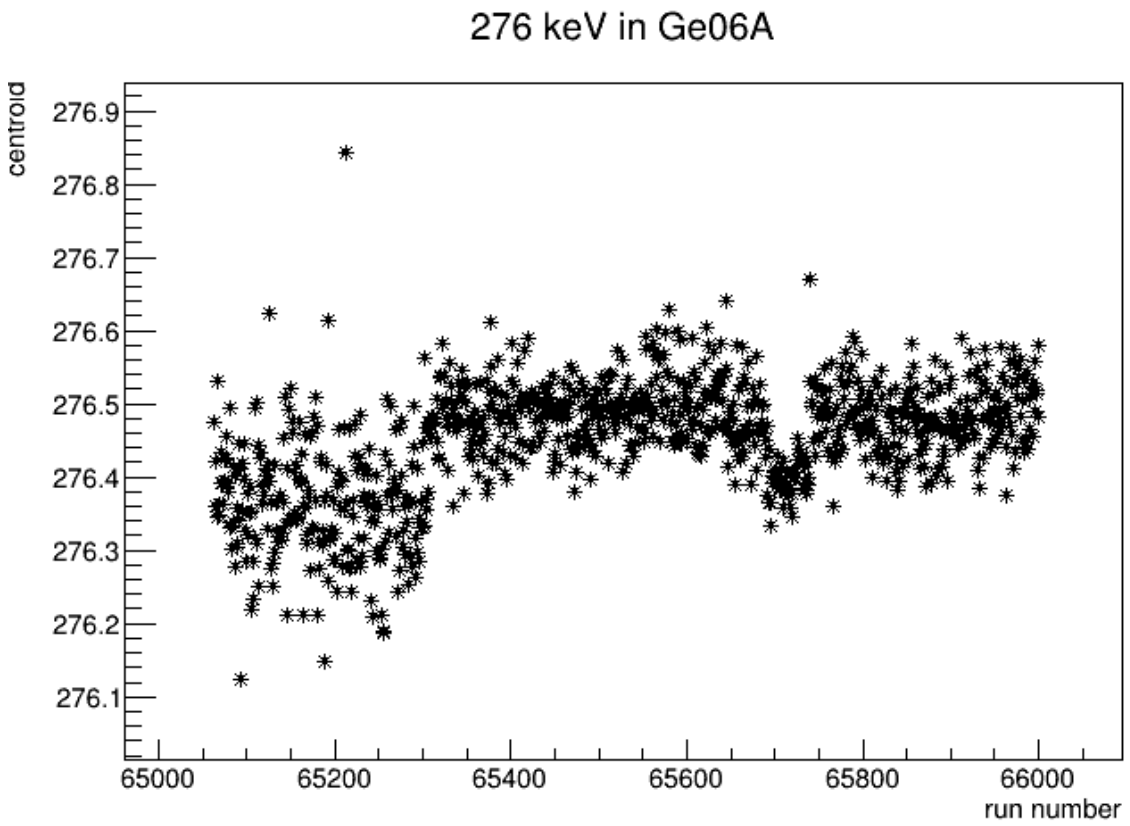
Anticoincidence spectrum

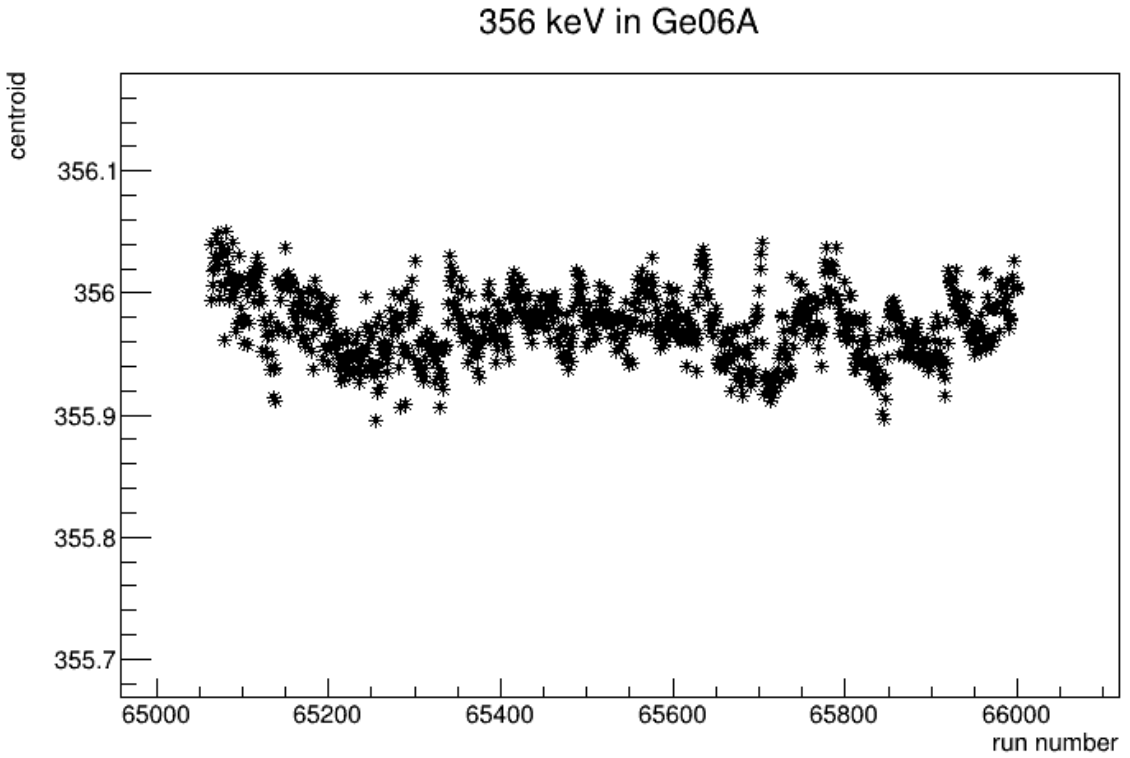


Why is it acting up? – Resolution



Why is it acting up? – All lines?





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