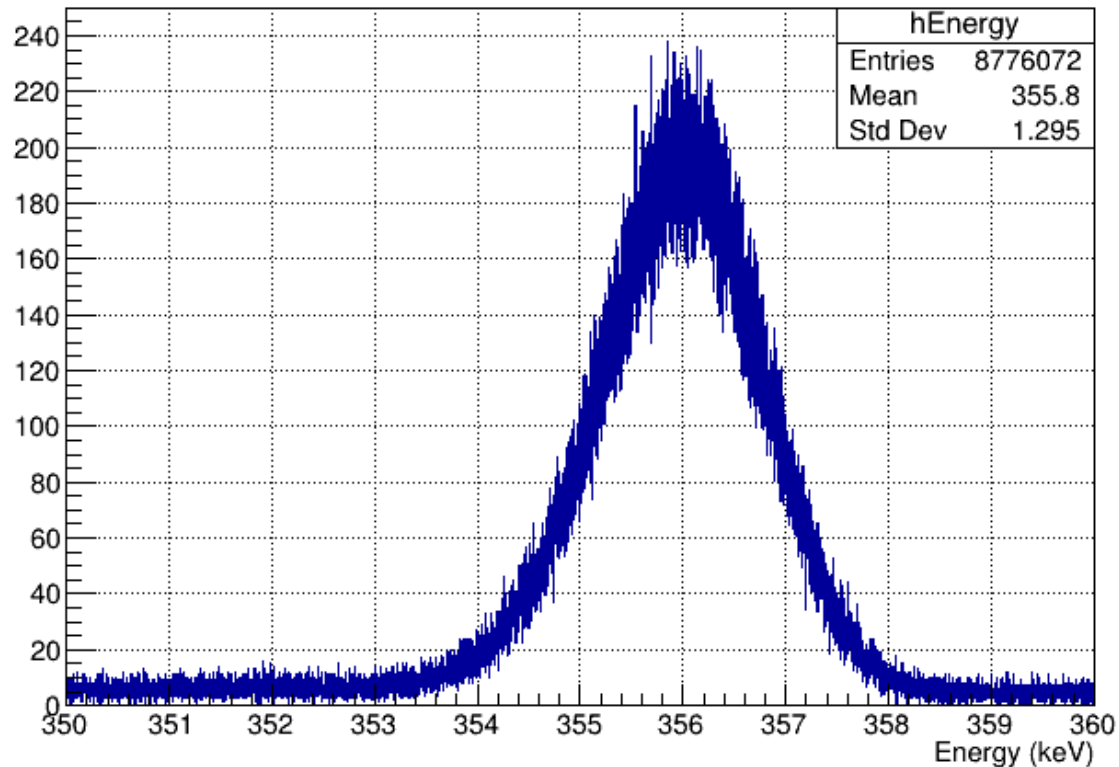


Update muX meeting 09/02

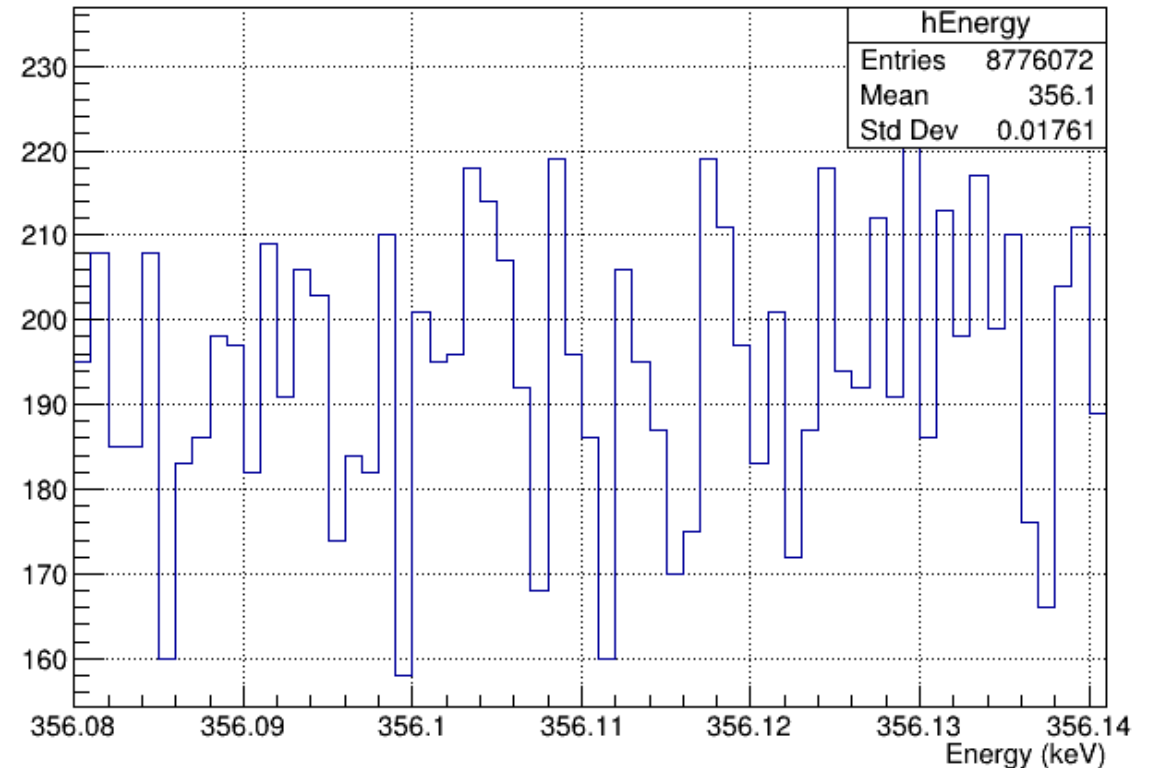
Michael Heines

Pushing to finite binning limit – 1 bin per eV

Trapezoid filter is doing wonders

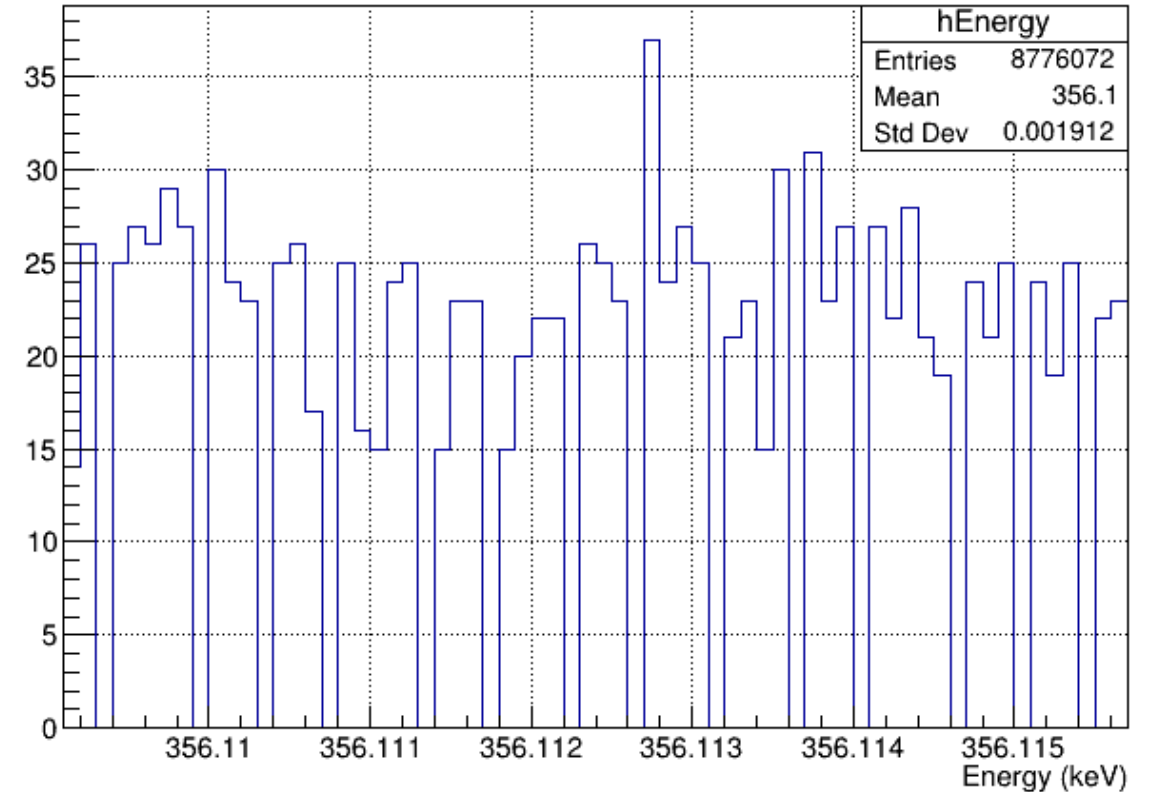
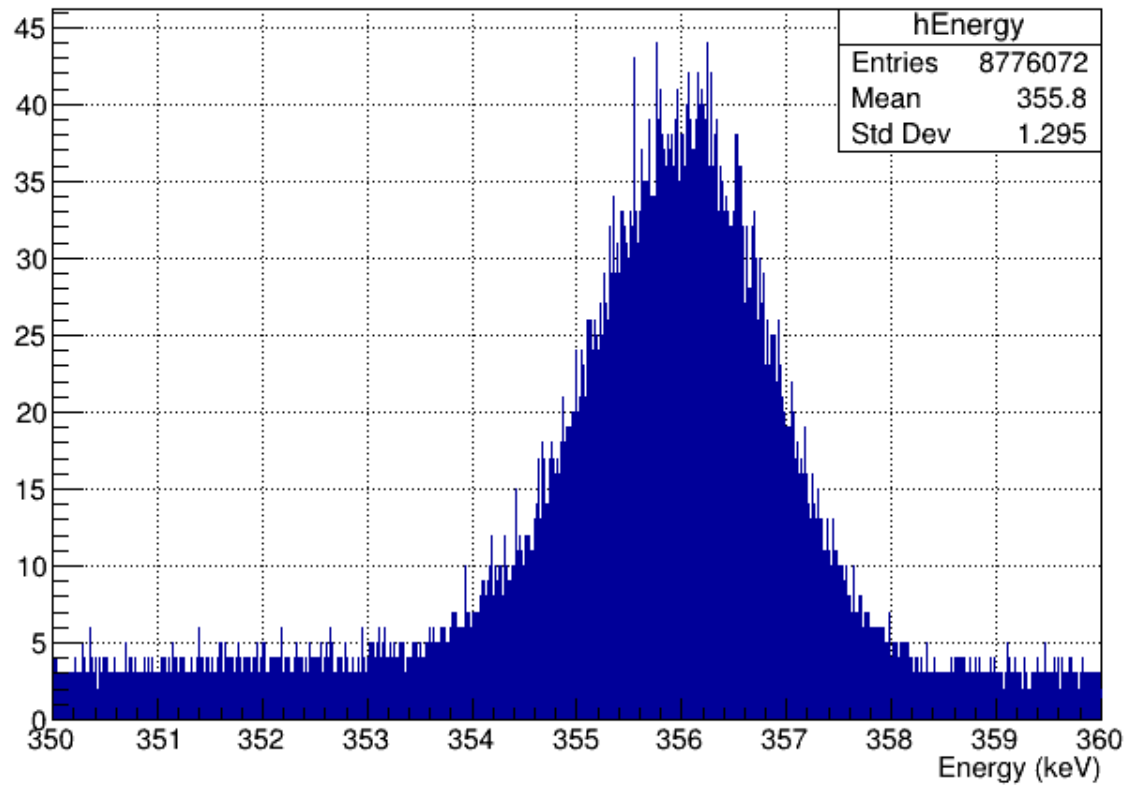


No finite binning effect



Pushing to finite binning limit – 1 bin per 0.1 eV

Clear finite binning effect



Fitting with different bin sizes

Fit 1 peak in 1 detector
with 1 calibration

Bin size (1/keV)	Centroid (chi2)	χ_{red}^2 (chi2)	Centroid (LL)	χ_{red}^2 (LL)
1	355.9673(16)	205.8	355.9606(15)	403.5
2	355.9688(15)	91.31	355.9621(15)	158.1
5	355.9692(15)	32.63	355.9627(15)	55.09
10	355.9694(15)	16.14	355.9629(15)	26.85
20	355.9694(15)	8.377	355.9629(15)	12.67
50	355.9694(15)	3.967	355.9682(15)	4.045
100	355.9693(15)	2.551	355.9629(15)	3.673
200	355.9693(15)	1.847	355.9629(15)	2.499
500	355.9691(15)	1.444	355.9629(15)	1.856
1000	355.9676(15)	1.323	355.9629(15)	1.850
2000	355.9678(15)	1.175	355.9629(15)	1.645
5000	355.9786(16)	1.875	355.9629(15)	2.142
10000	355.9802(15)	0.688	355.9629(15)	12.34
20000	355.9802(15)	0.688	355.9629(15)	9.198
50000	355.9802(15)	0.688	355.9629(15)	2.471

Doesn't seem to say much... →
Fitting with proper lineshape?

