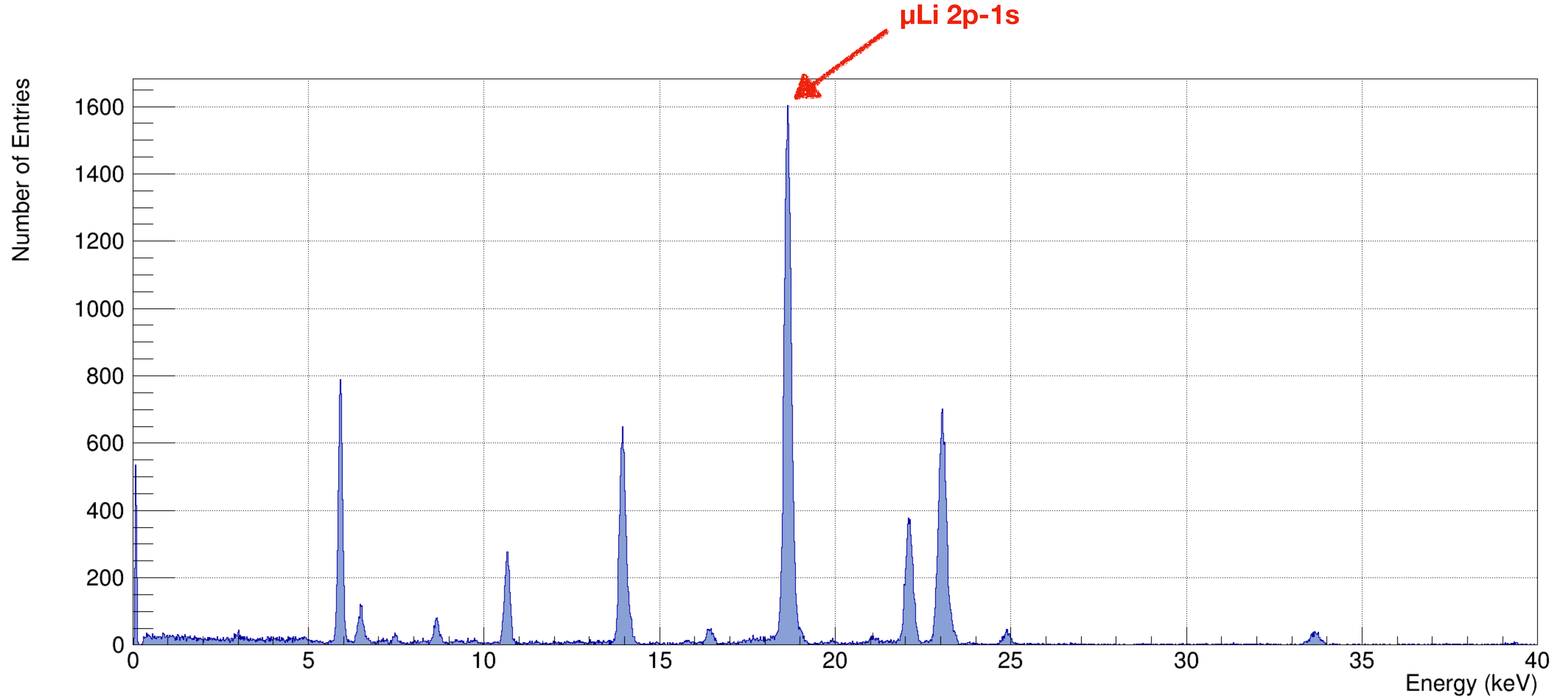


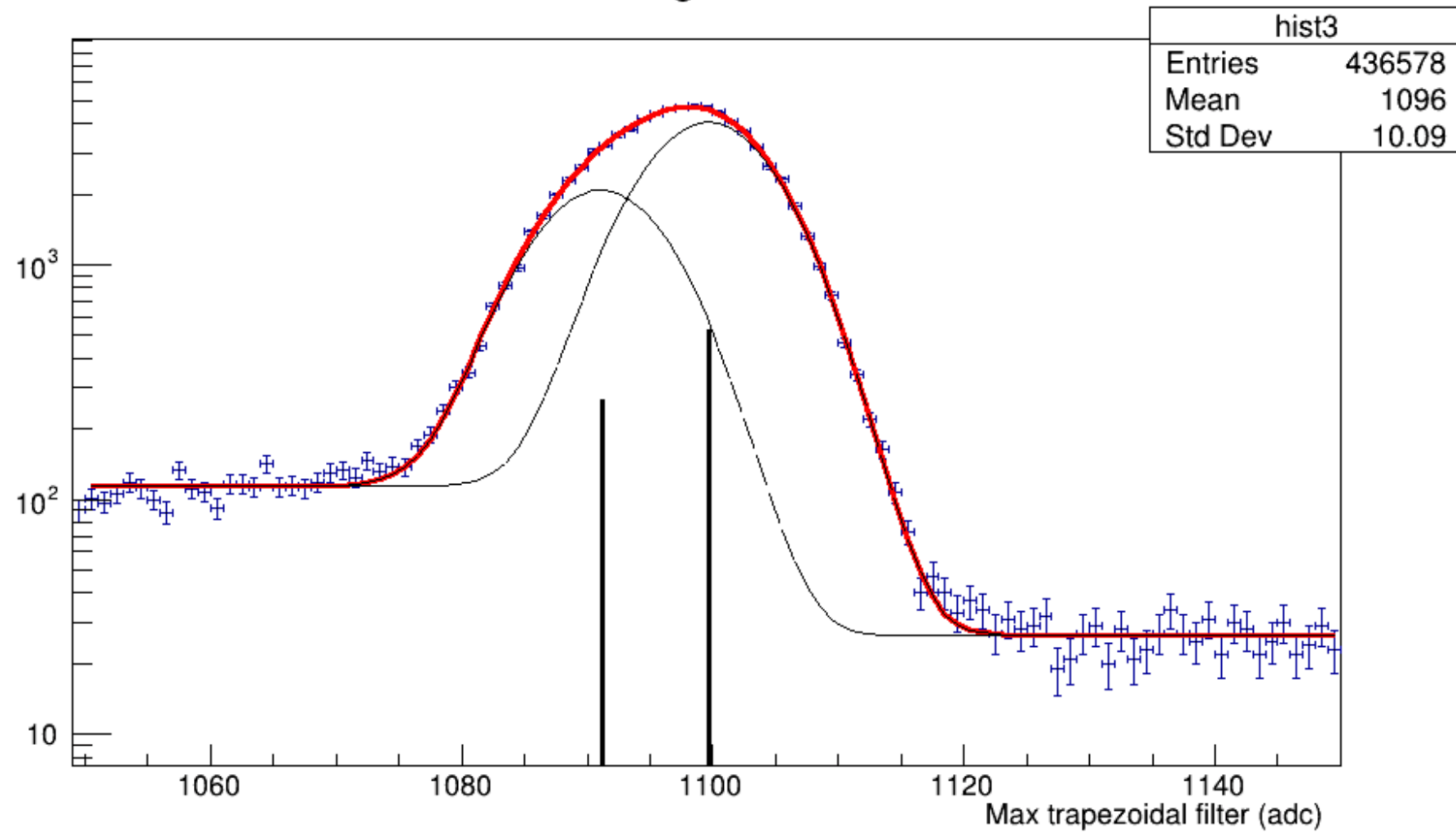
# ${}^6\text{Li}$ – SDD Spectrum



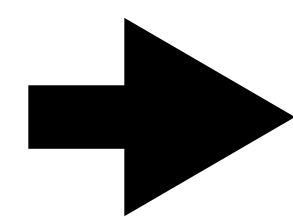
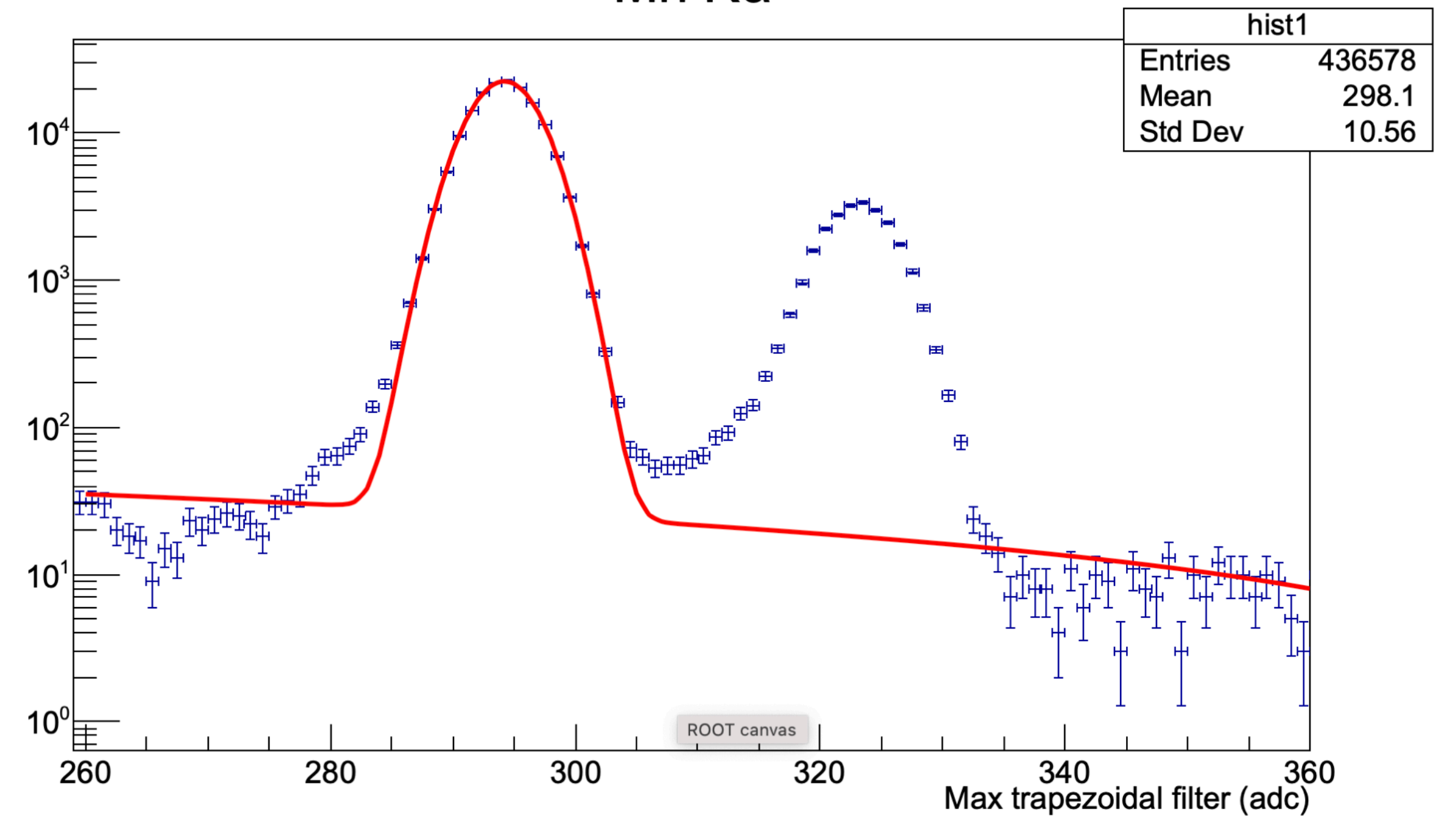
# SDD Calibration

## Peak Examples

Ag  $K\alpha$



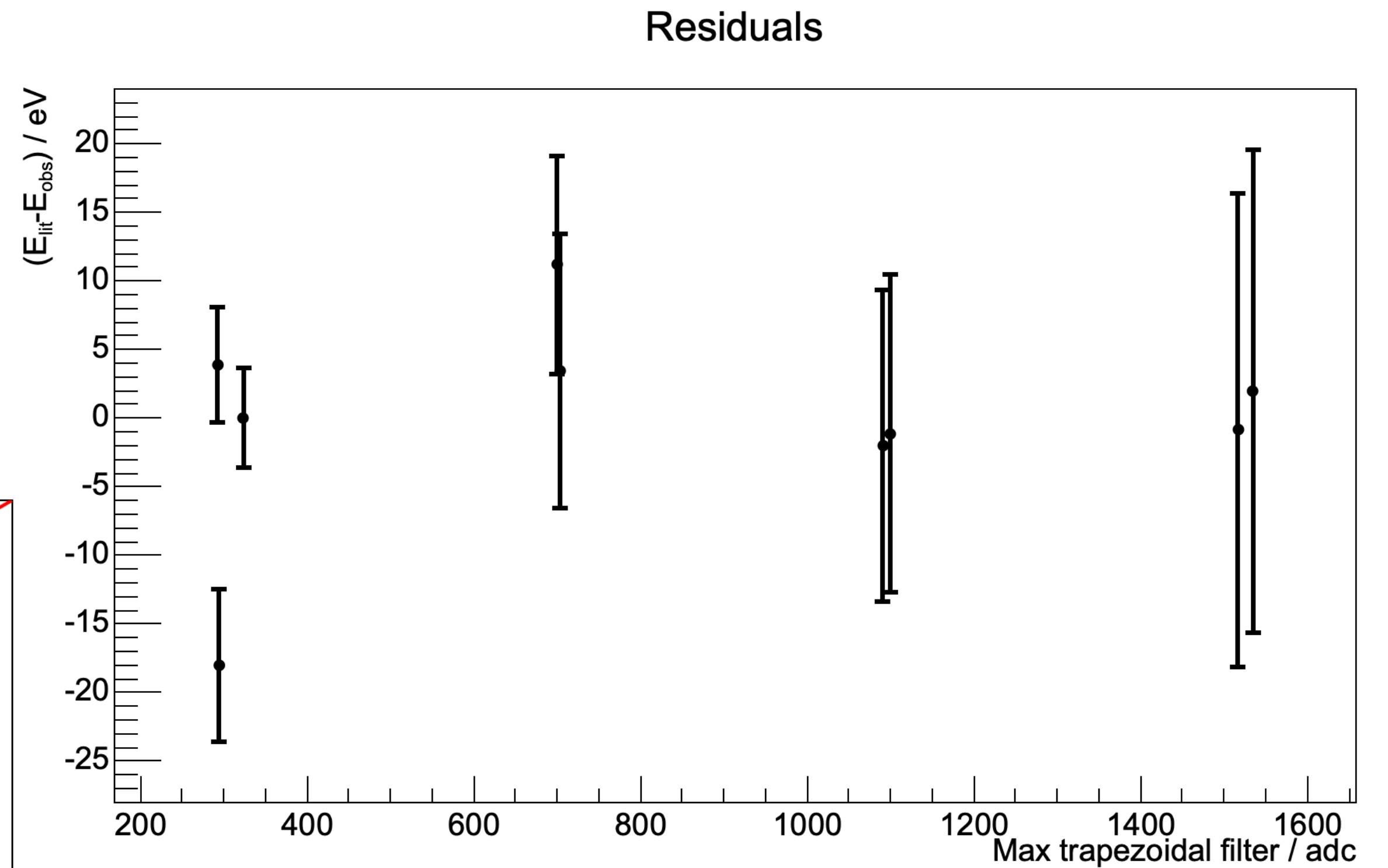
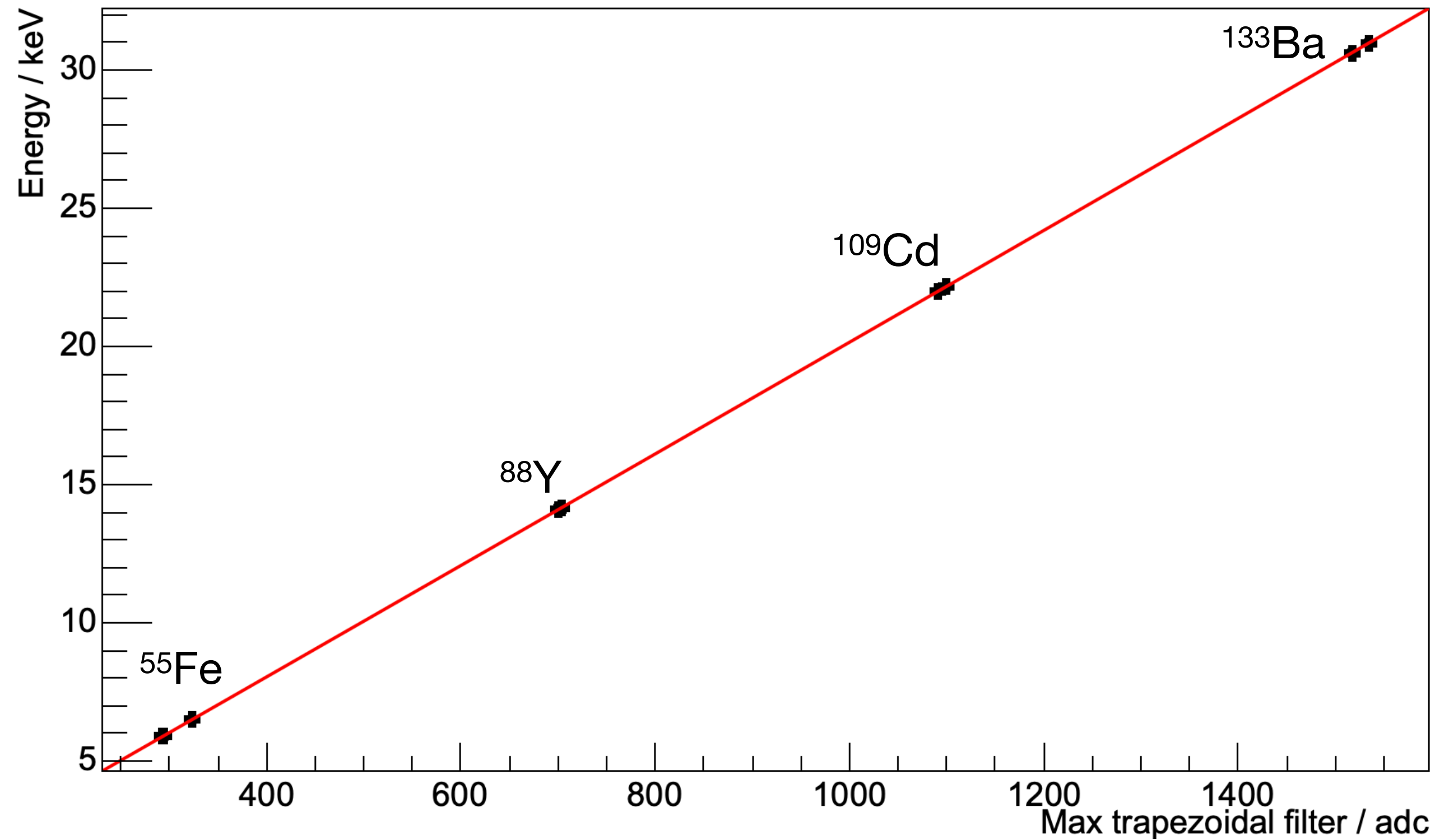
Mn  $K\alpha$



Trying to improve background fit

# SDD Calibration

For now...



| EXT NO. | PARAMETER NAME | VALUE        | ERROR       |
|---------|----------------|--------------|-------------|
| 1       | p0             | -1.13211e-02 | 2.39047e-03 |
| 2       | p1             | 2.00957e-02  | 8.64700e-06 |
| 3       | p2             | 6.37170e-08  | 4.80867e-09 |

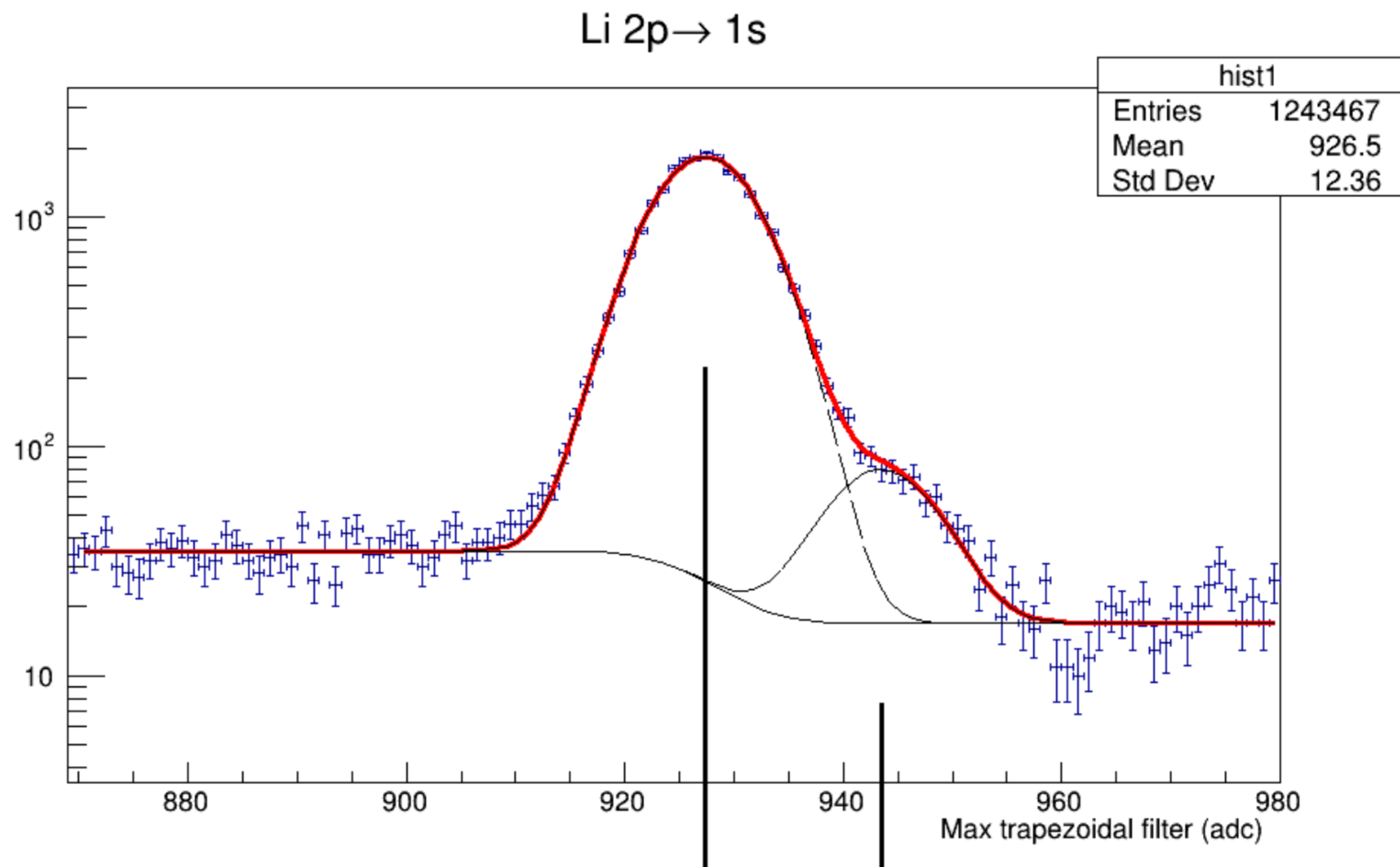
Calibration lines:

|         |    |             |    |       |           |
|---------|----|-------------|----|-------|-----------|
| 5.88759 | -> | 5.88371 keV | => | Diff: | 3.87 eV   |
| 5.8988  | -> | 5.91681 keV | => | Diff: | -18.01 eV |
| 6.49018 | -> | 6.49017 keV | => | Diff: | 0 eV      |
| 14.098  | -> | 14.0868 keV | => | Diff: | 11.21 eV  |
| 14.1652 | -> | 14.1618 keV | => | Diff: | 3.44 eV   |
| 21.9903 | -> | 21.9923 keV | => | Diff: | -2.01 eV  |
| 22.1629 | -> | 22.1641 keV | => | Diff: | -1.16 eV  |
| 30.6254 | -> | 30.6262 keV | => | Diff: | -0.83 eV  |
| 30.9731 | -> | 30.9712 keV | => | Diff: | 1.97 eV   |

=> Li-6 @ 18.6797 +/- 0.00936737

# Li Peak

## For now...

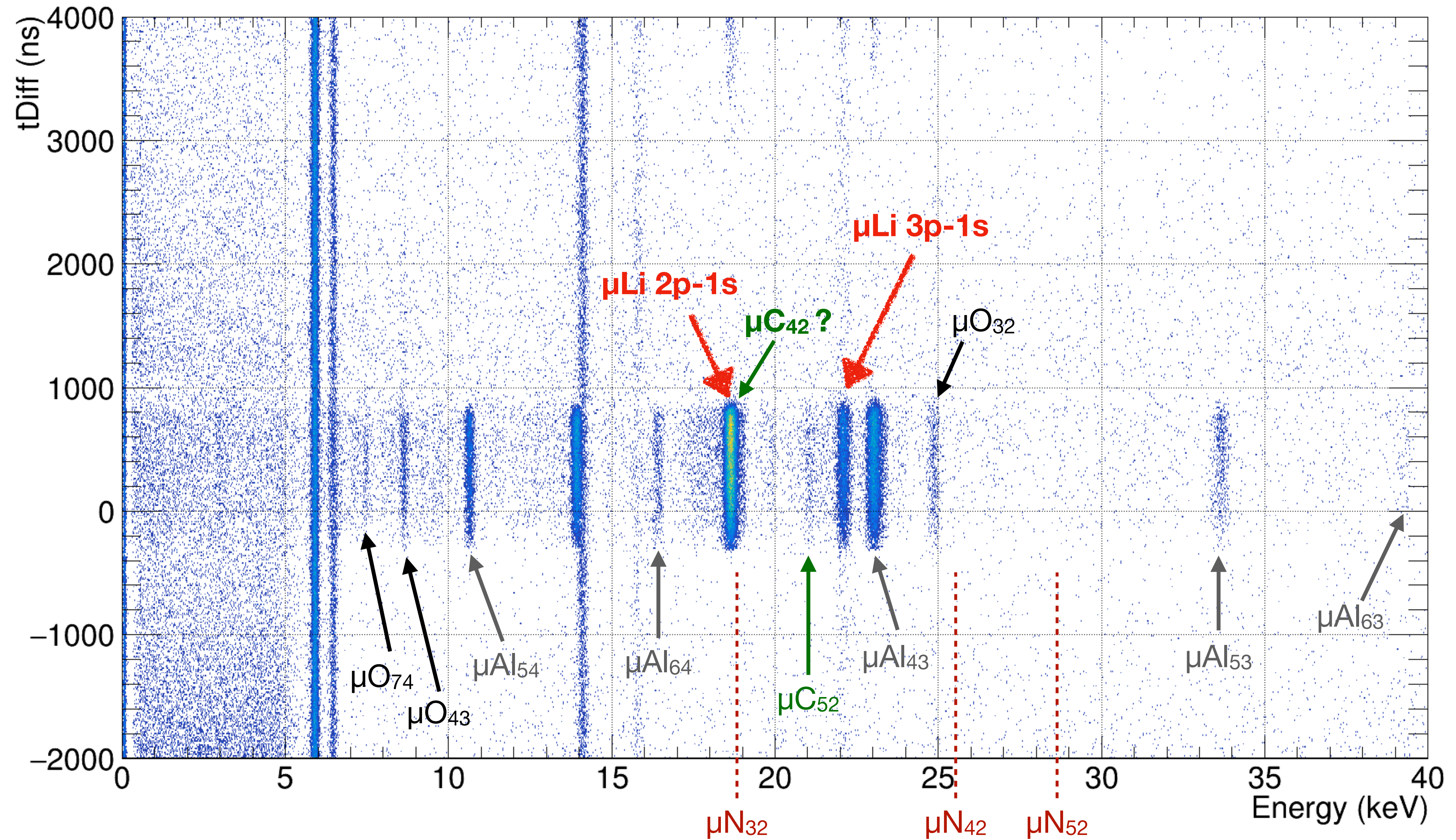


```

FCN=120.02 FROM MIGRAD   STATUS=CONVERGED   673 CALLS   674 TOTAL
                        EDM=8.07732e-07   STRATEGY= 1   ERROR MATRIX UNCERTAINTY   1.7 per cent
EXT  PARAMETER
NO.  NAME      VALUE      ERROR      STEP      FIRST
1    N        2.19643e+04  1.55568e+02 -5.26795e-08  1.40671e+00
2    centroid  9.27361e+02  3.64342e-02  1.71383e-04  1.56713e-02
3    sigma    4.85803e+00  3.17837e-02 -3.67128e-06 -2.46162e-02
4    rel. int  3.45312e-02  2.08162e-03  1.31727e-05 -7.36493e-01
5    shift    1.61117e+01  4.05537e-01 -8.57086e-05 -2.75861e-02
6    A        1.75661e+01  1.14826e+00  4.55117e-03  8.19091e-04
7    B        1.69463e+01  8.21365e-01 -1.87228e-03 -2.20214e-04
  
```

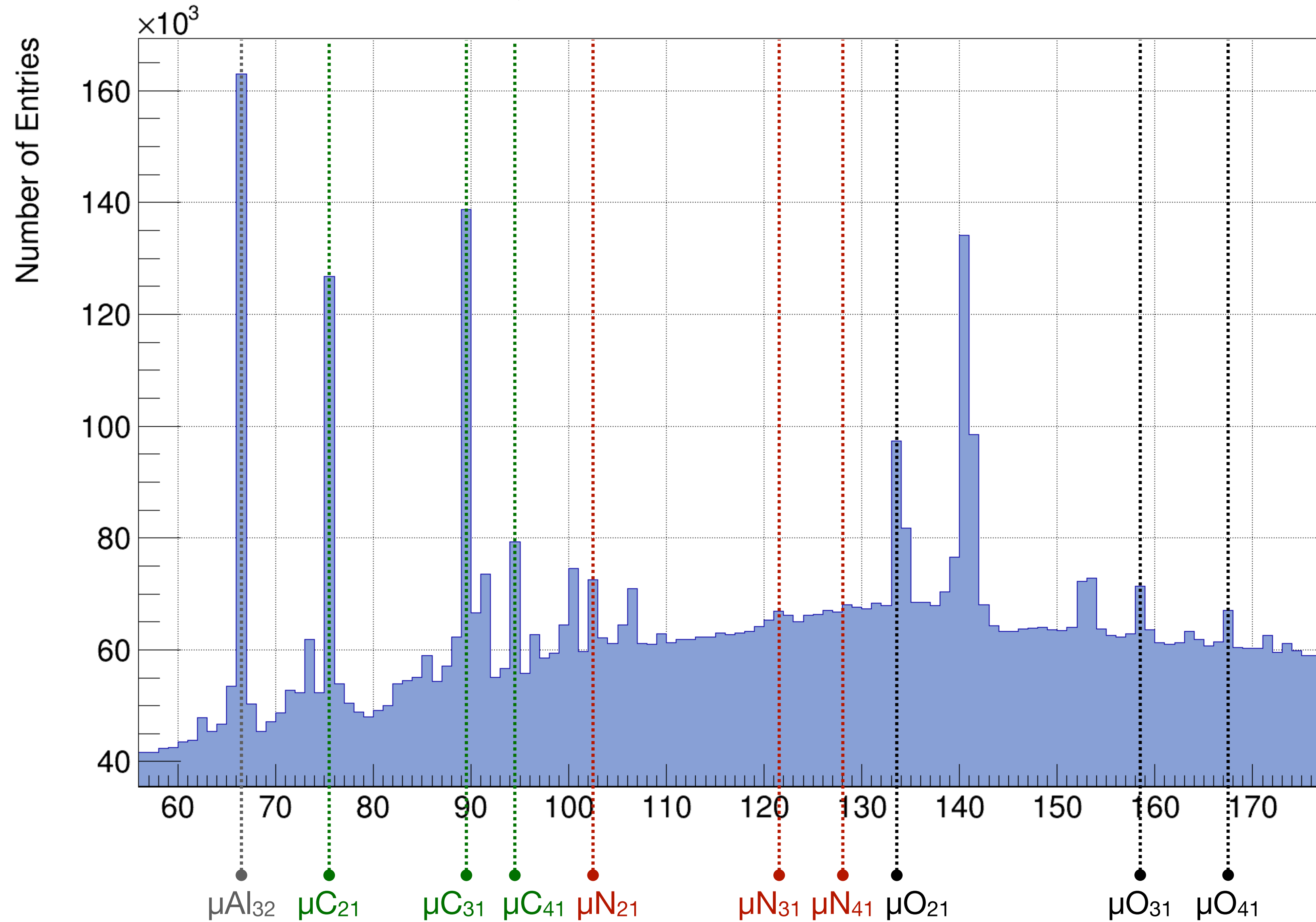
Reduced Chi<sup>2</sup>:  
1.16524

# ${}^6\text{Li}$ – Energy vs. Time

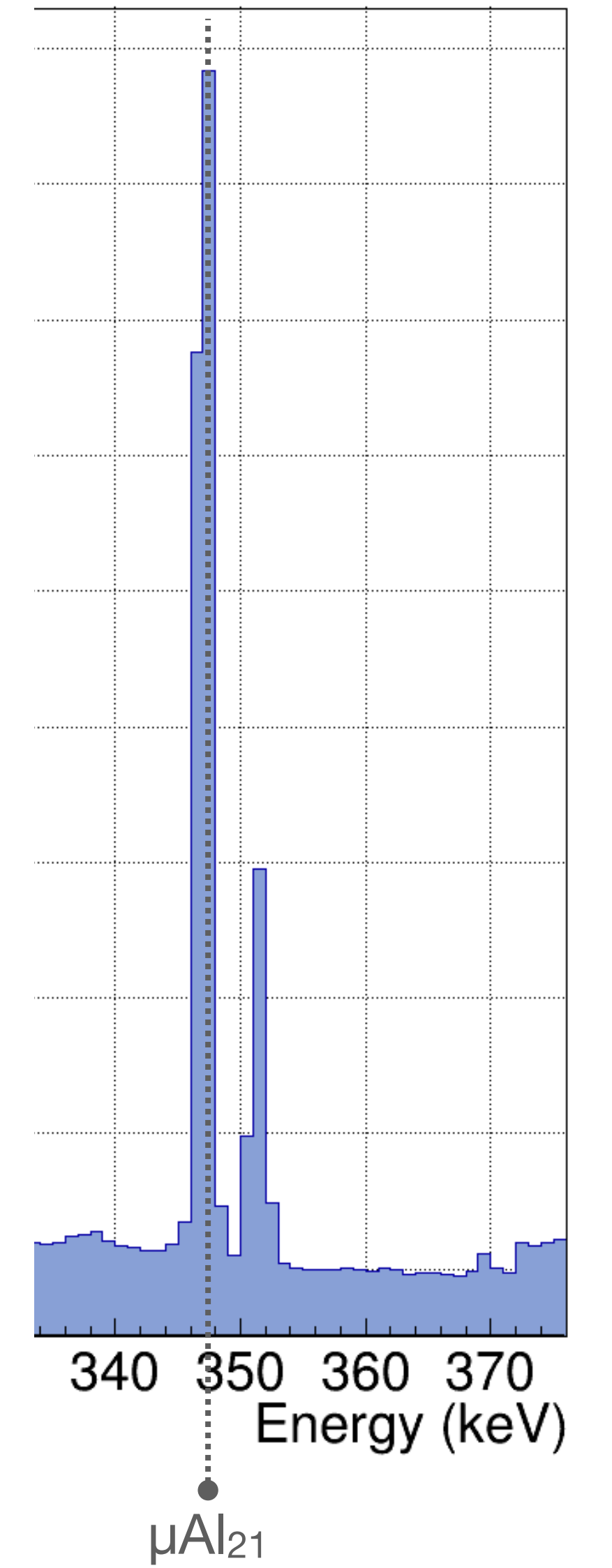


# ${}^6\text{Li}$ – Ge08

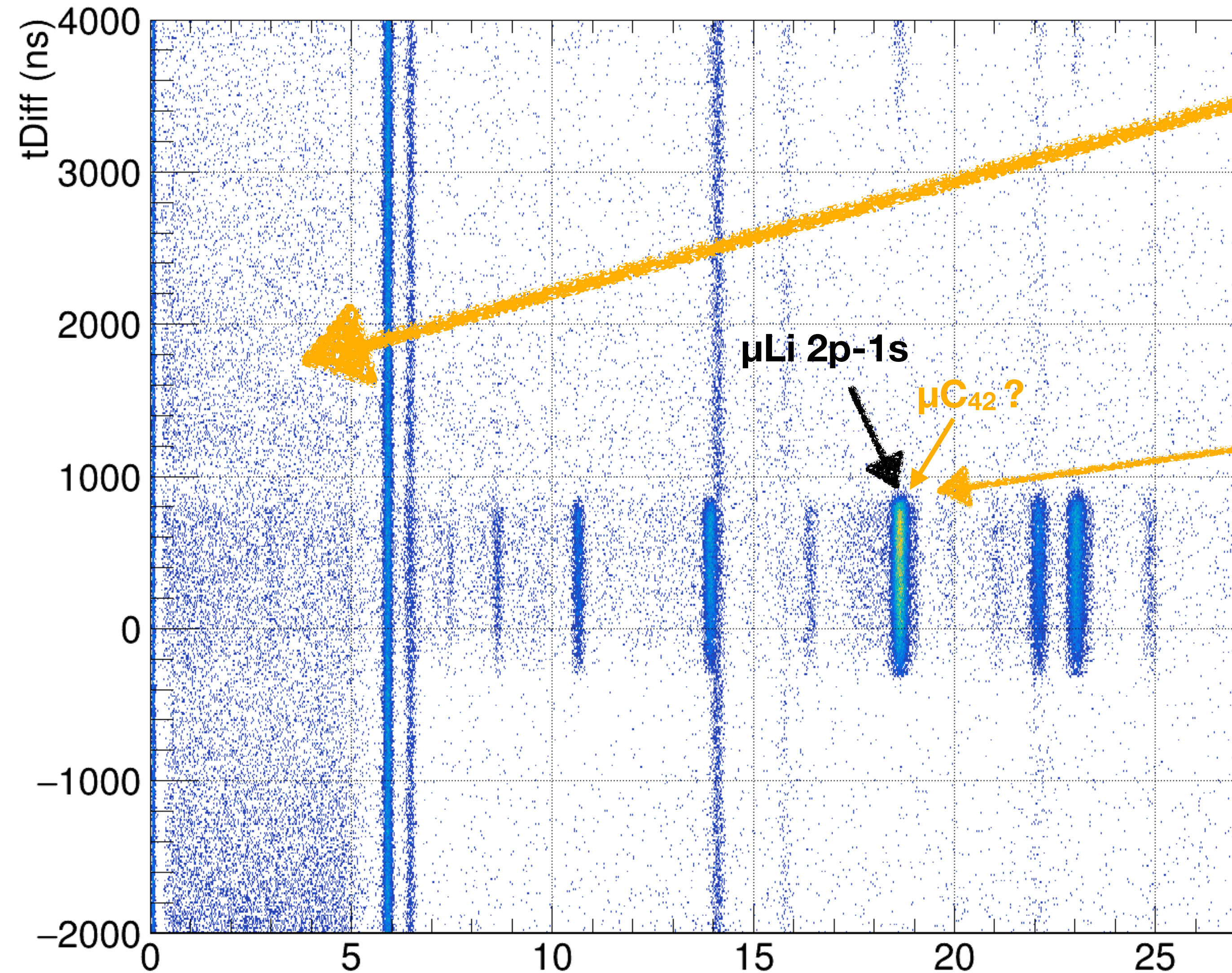
ProjectionX of biny=8 [y=7.5..8.5] Ge08



[...]



# ${}^6\text{Li}$ – Energy vs. Time



1. What is this? – Check waveforms

2. How much is in there?