

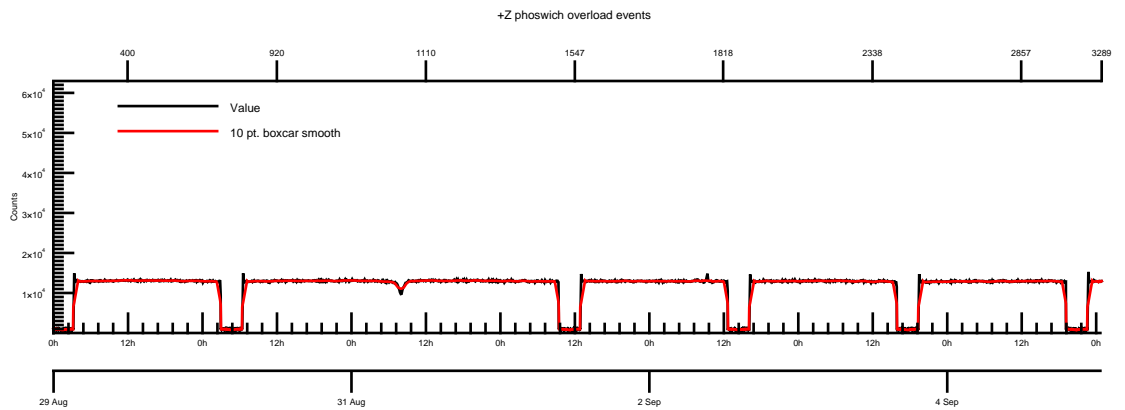
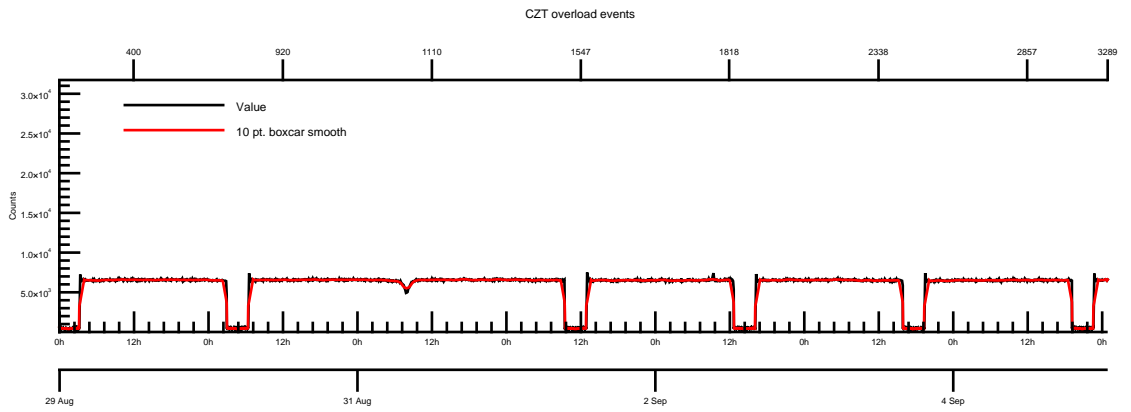
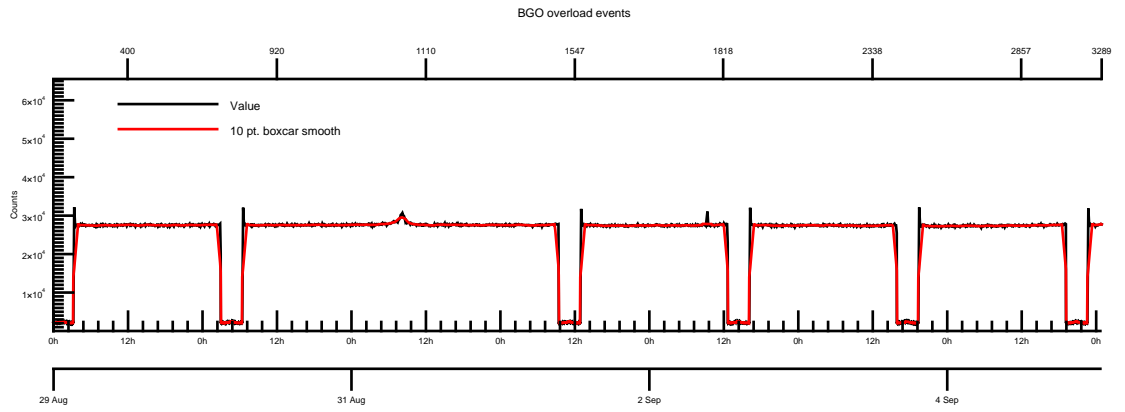
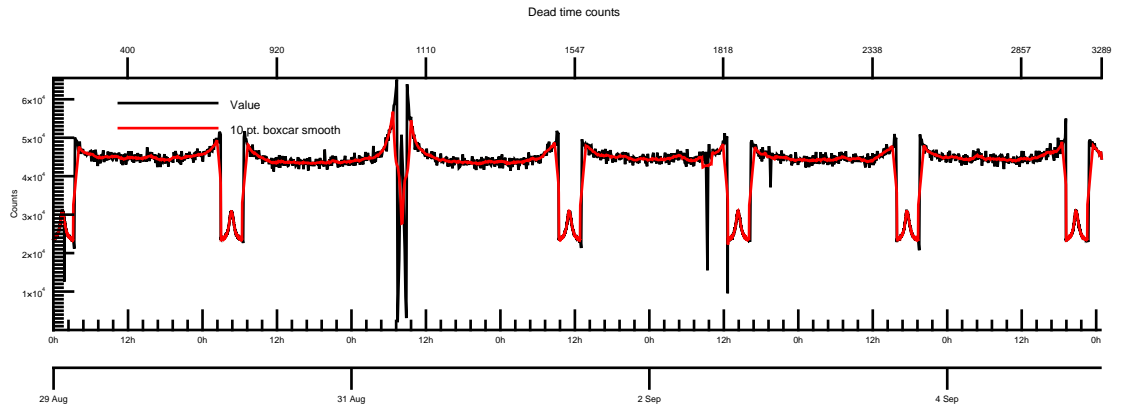
NASA Dawn Mission

GRaND@Ceres Browse Charts

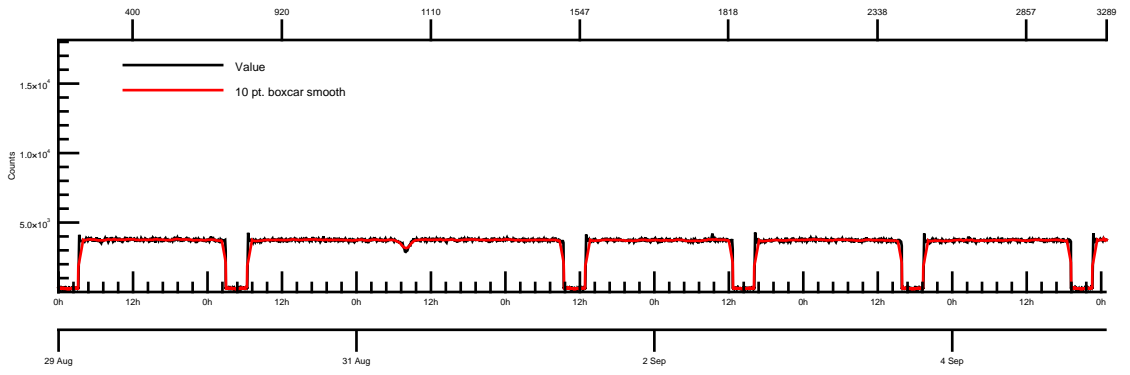
Ceres c2e DA945 18241\_0

- Number of science records: 3290  
23 missing science packets with 1 gaps.  
Start/End: 2018-08-29T00:00:27 to 2018-09-05T00:55:43
- Number of SOH records: 17391  
0 missing SOH packets with 0 gaps.  
Start/End: 2018-08-29T00:00:33 to 2018-09-05T00:59:33
- Comments: Browse charts.
  - Provides an overview of data contained within this directory.
  - Refer to the .STA file for detailed state information.
  - The energy scale for calibrated spectra may not be accurate.
  - Missing data count may be in error when power on data are present.
- Number of states = 23
- Instrument settings for first state (STATE\_INDEX 17149):

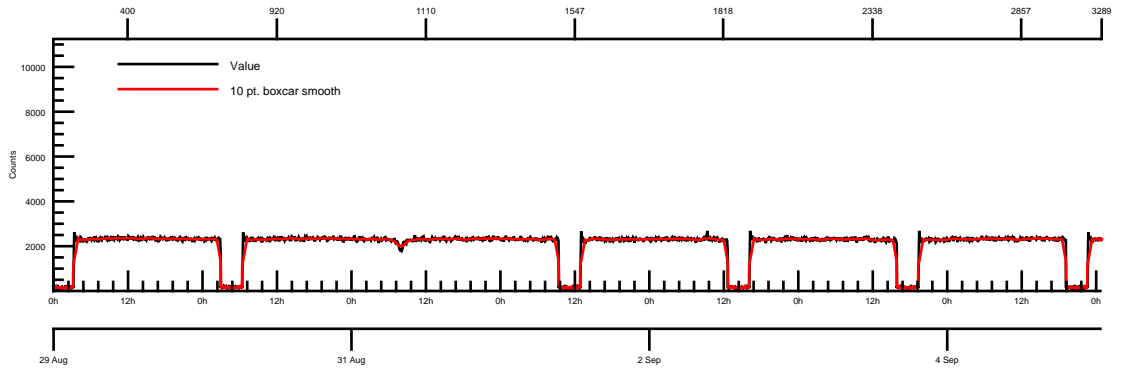
|            |     |               |      |
|------------|-----|---------------|------|
| TELREADOUT | 35  | NEMG_TOT_EVTS | 3876 |
| TELSOH     | 35  | NEMG_CZT_EVTS | 3376 |
| MODE       | 1   | NEMN_TOT_EVTS | 2800 |
| HVPS1      | 1   | L_BGO_CW      | 1    |
| HVPS1_SET  | 185 | H_BGO_CW      | 64   |
| HVPS2      | 1   | L_BGO_ROI     | 1    |
| HVPS2_SET  | 173 | H_BGO_ROI     | 64   |
| HVPS3      | 1   | L_BLP_MY_CW   | 1    |
| HVPS3_SET  | 178 | H_BLP_MY_CW   | 64   |
| HVPS4      | 1   | L_BLP_MY_ROI  | 1    |
| HVPS4_SET  | 182 | H_BLP_MY_ROI  | 64   |
| HVPS5      | 1   | L_BLP_PY_CW   | 1    |
| HVPS5_SET  | 127 | H_BLP_PY_CW   | 64   |
| HVPS6      | 1   | L_BLP_PY_ROI  | 1    |
| HVPS6_SET  | 170 | H_BLP_PY_ROI  | 64   |
| PM5_LVPS   | 1   | L_BLP_MZ_CW   | 1    |



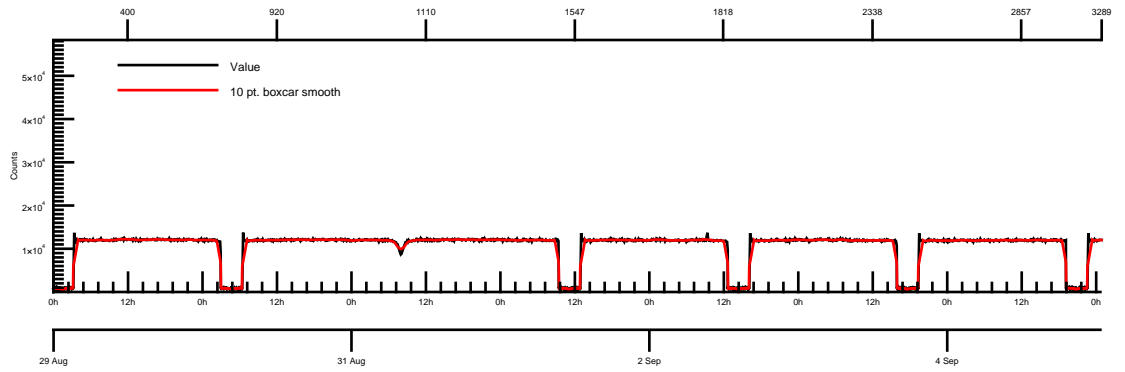
-Y BLP overload events



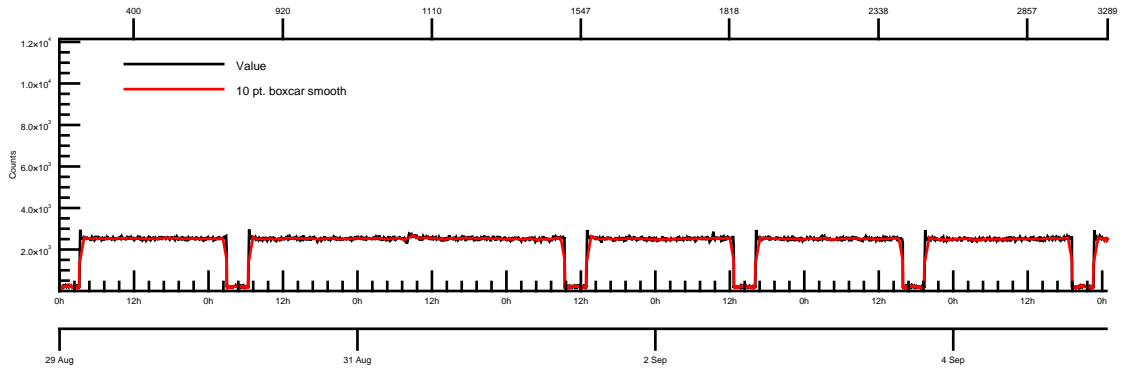
+Y BLP overload events



-Z phoswich overload events

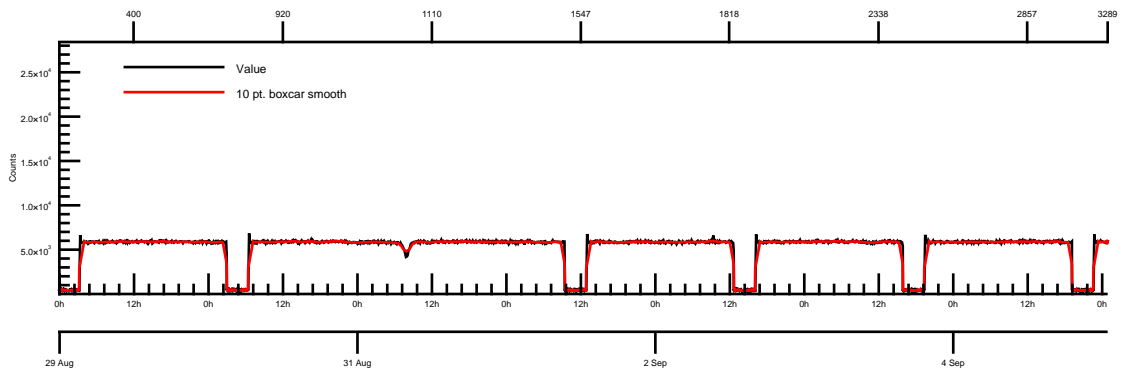


+Z phoswich CAT4 events

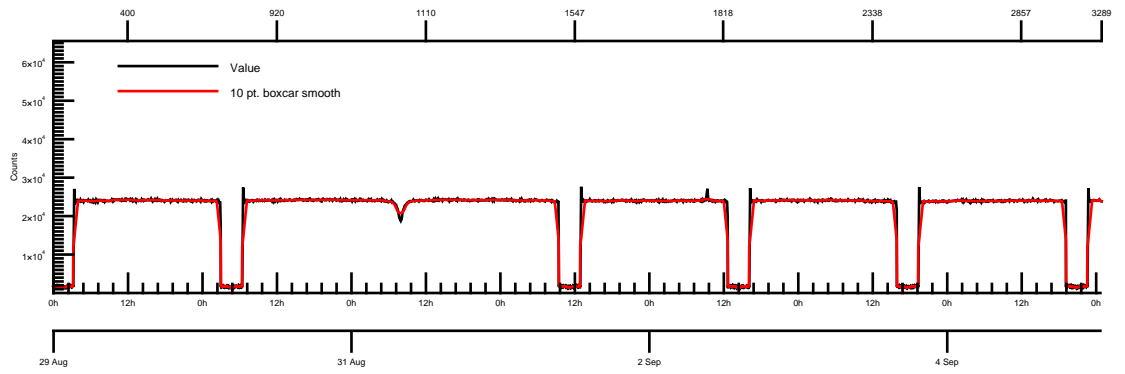




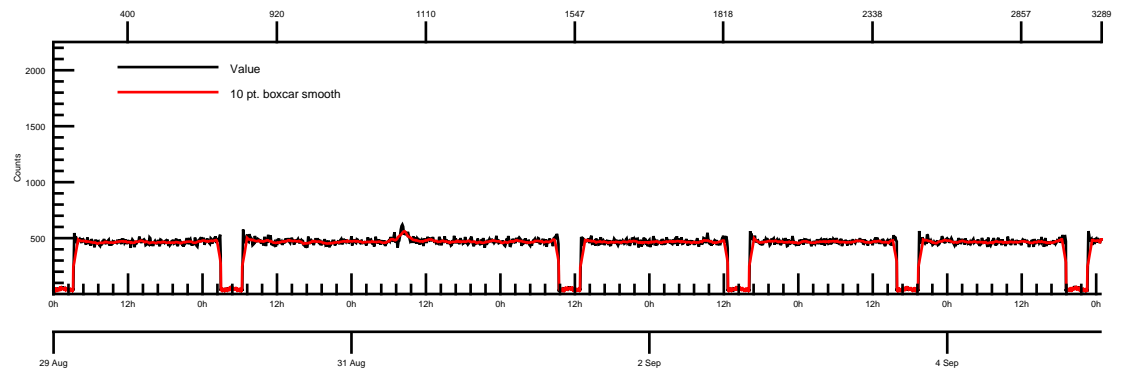
Multiple-crystal CZT events



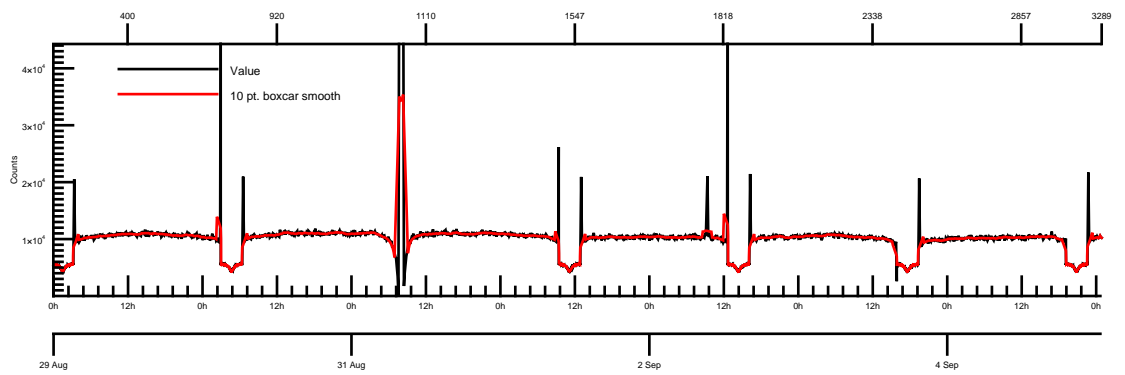
Valid CZT events (CAT10)



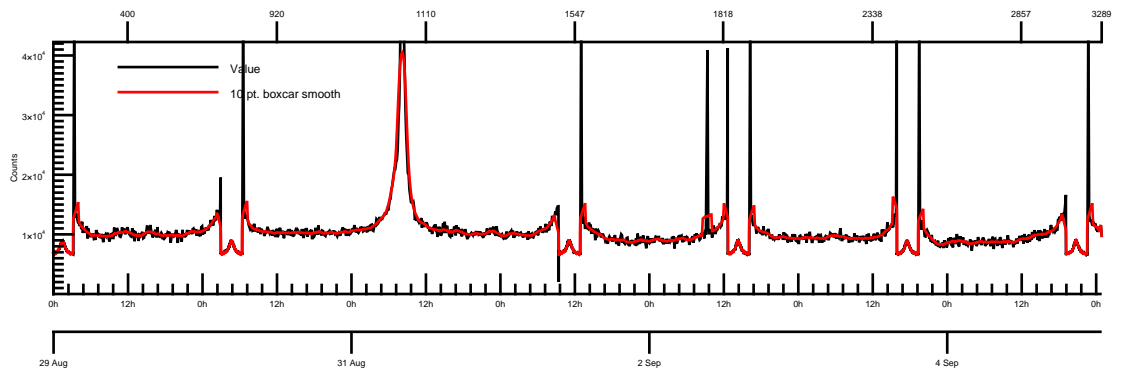
Coincidence BGO and CZT events (CAT7)



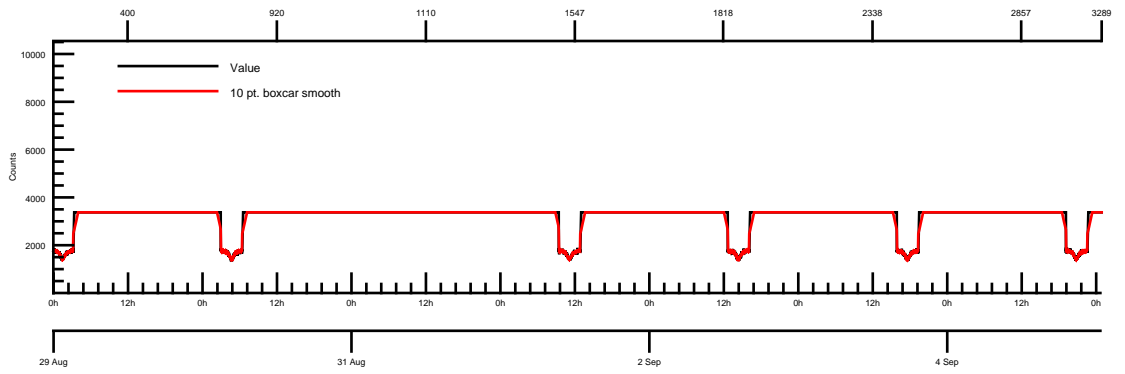
Coincidence of three or more sensor elements



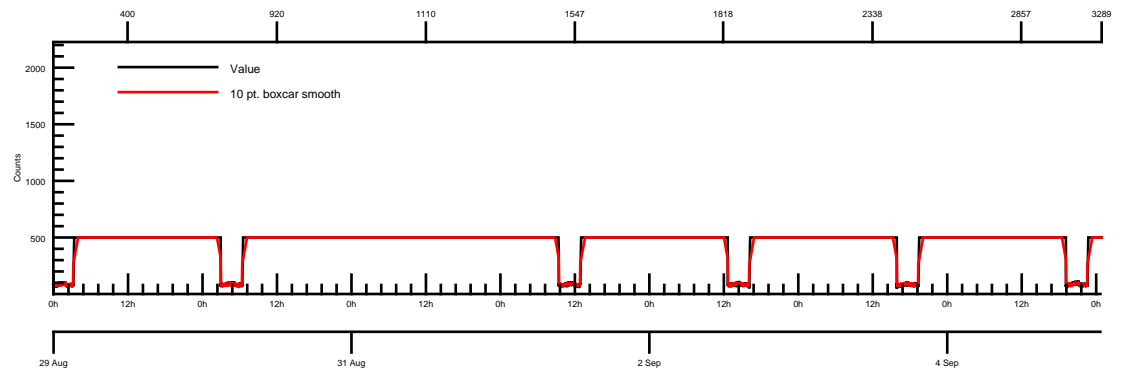
Total events processed by GRaND



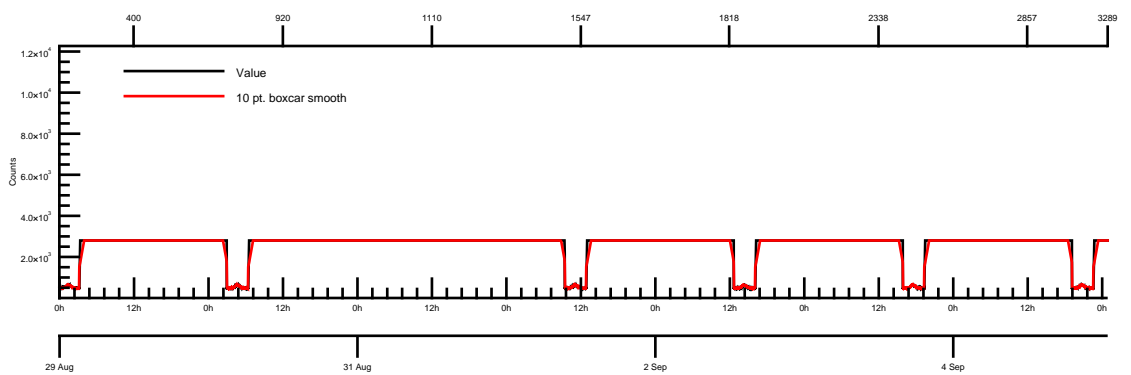
Number of single CZT events (CAT10) in the gamma ray event buffer

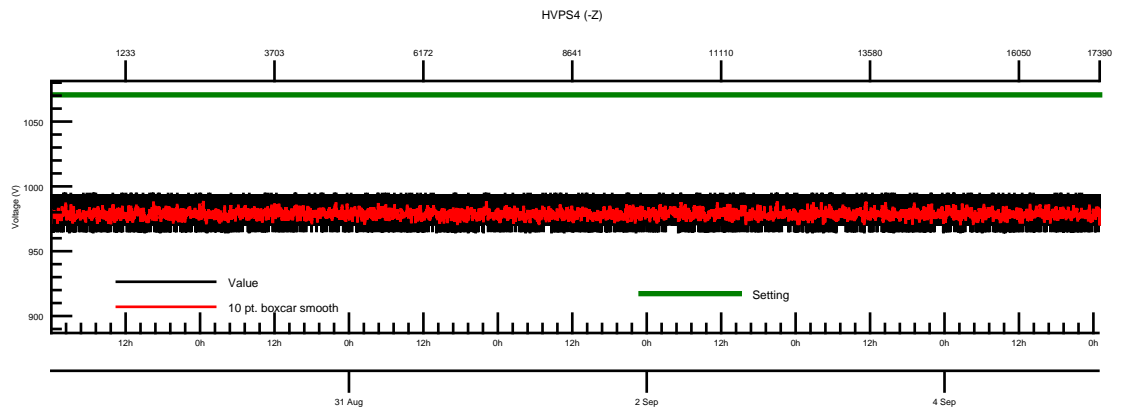
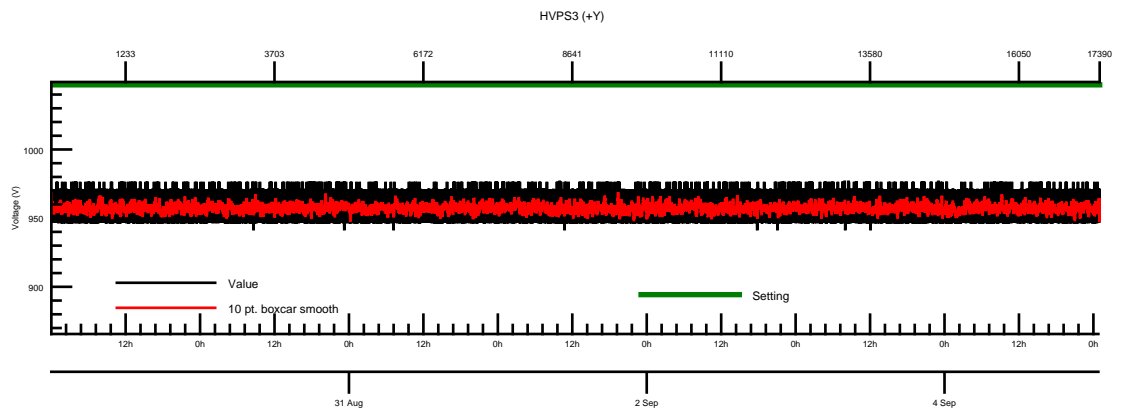
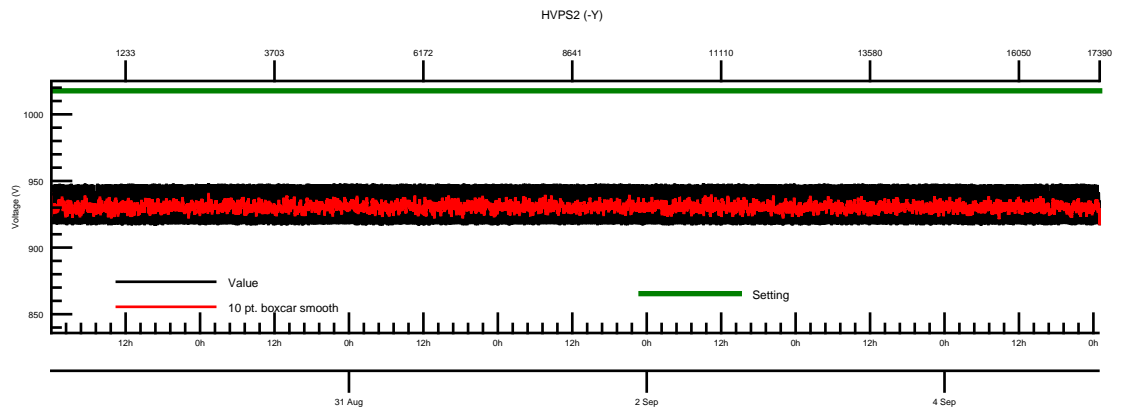
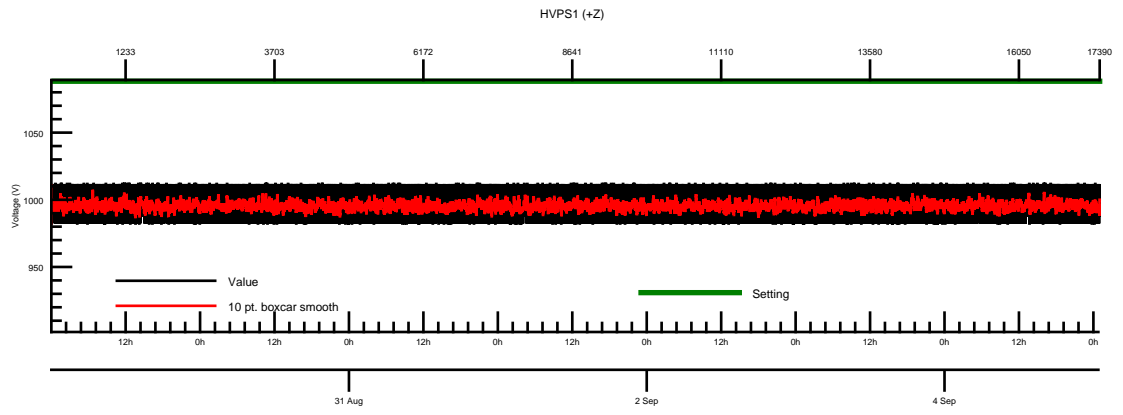


Number of BGO-CZT events (CAT7) in the gamma ray event buffer

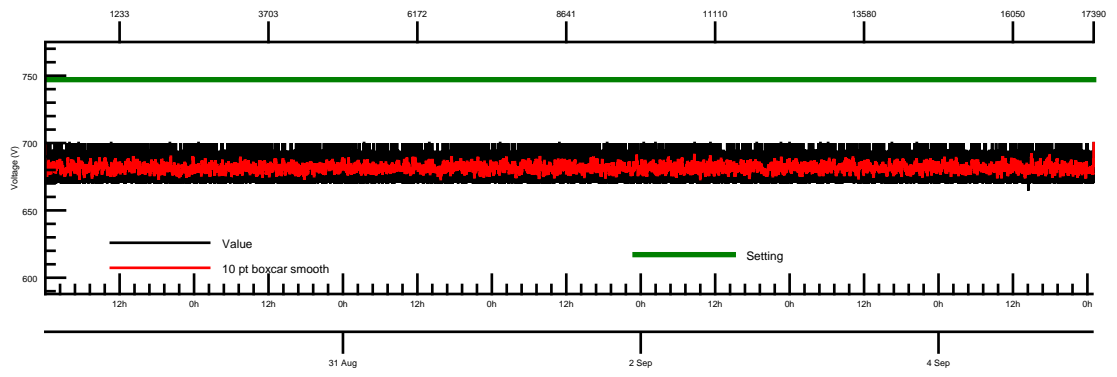


Number of events (CAT4) in the neutron event buffer

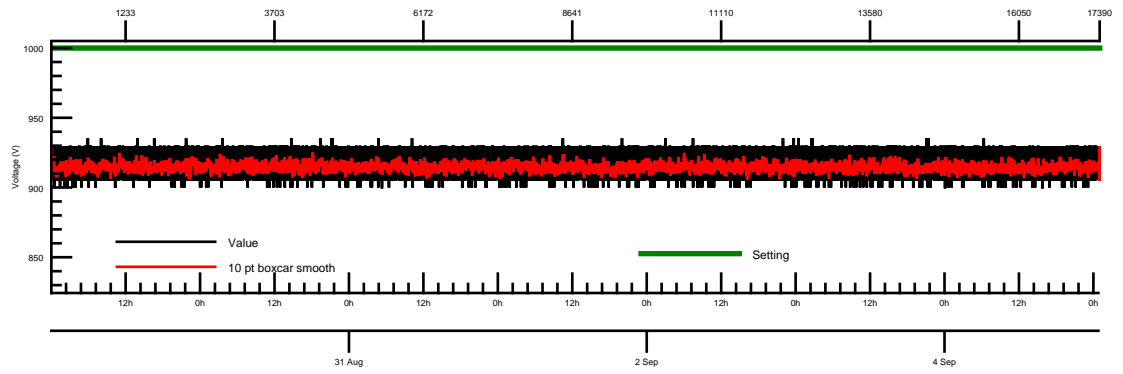




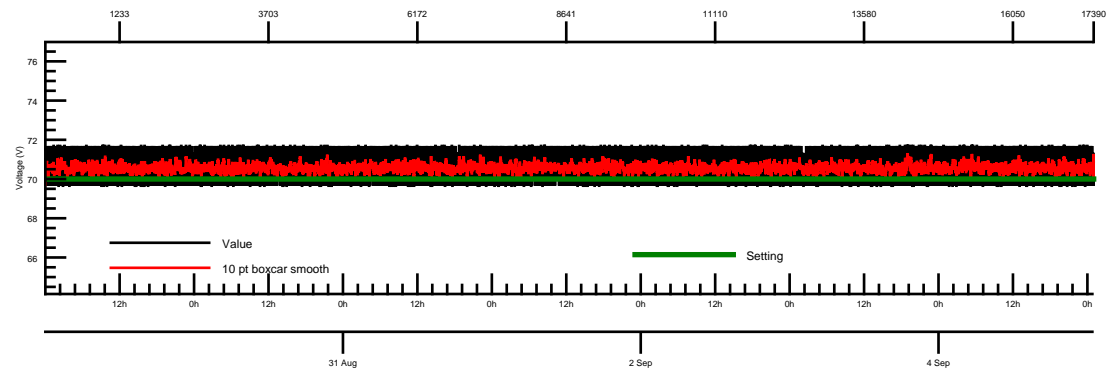
HVPS5 (BGO)



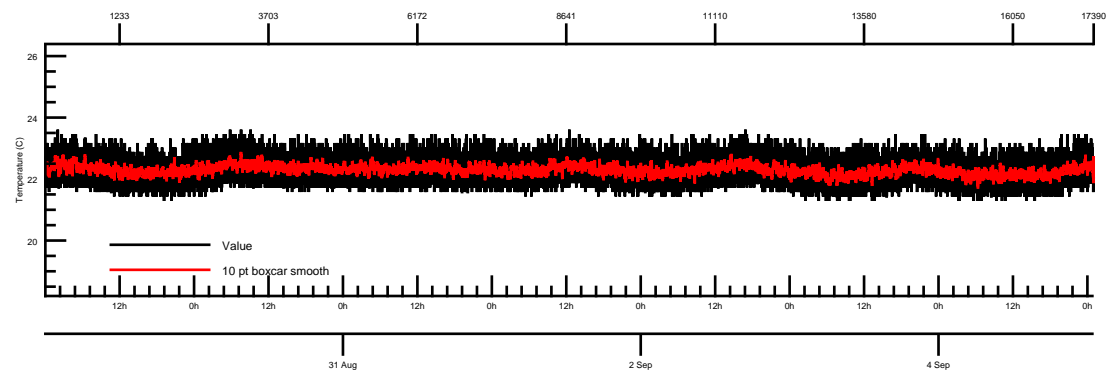
HVPS6 (CZT)



HVPS70 (CZT grid bias)

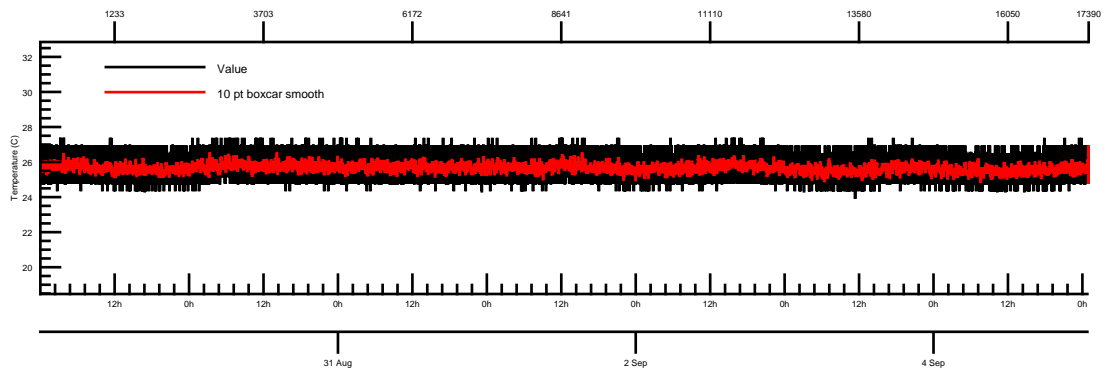


TCZT<1,2,3>

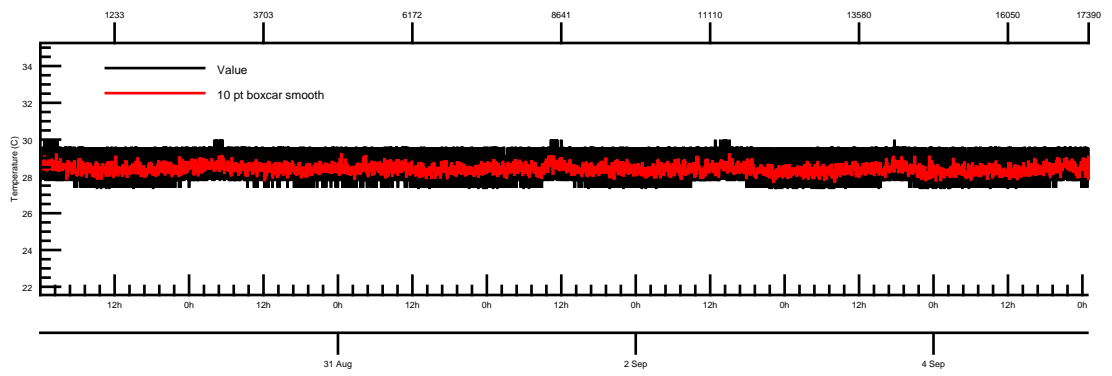




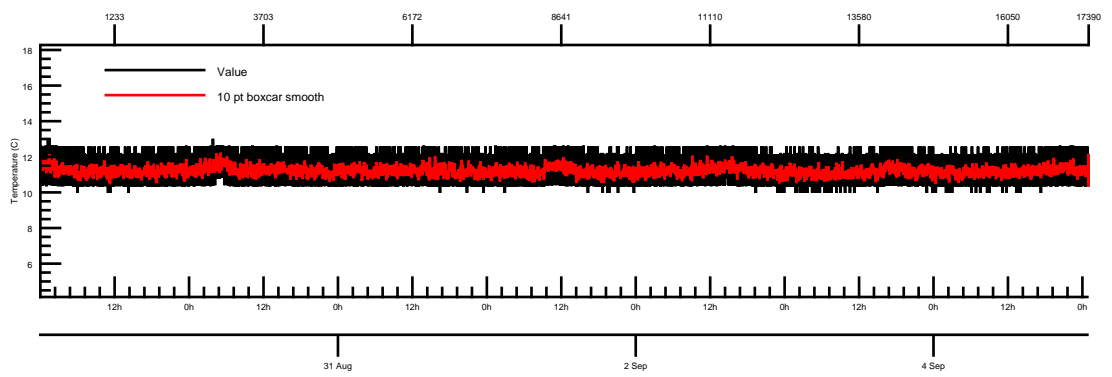
TCZT4



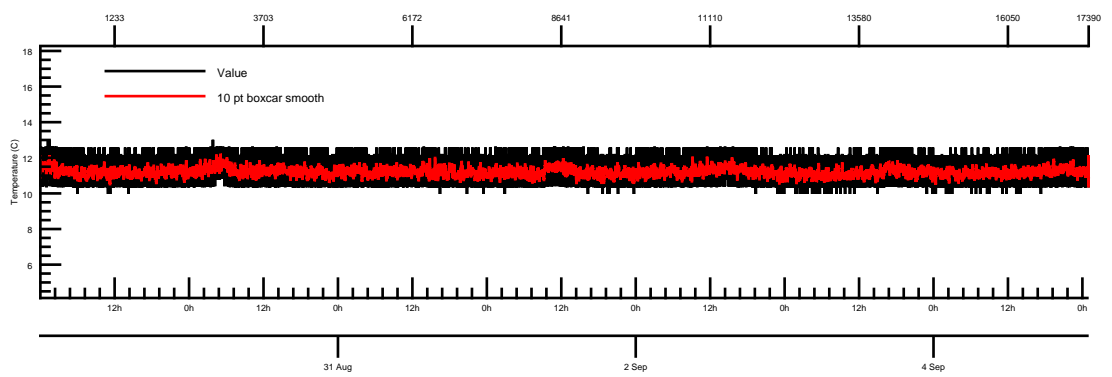
TLVPS

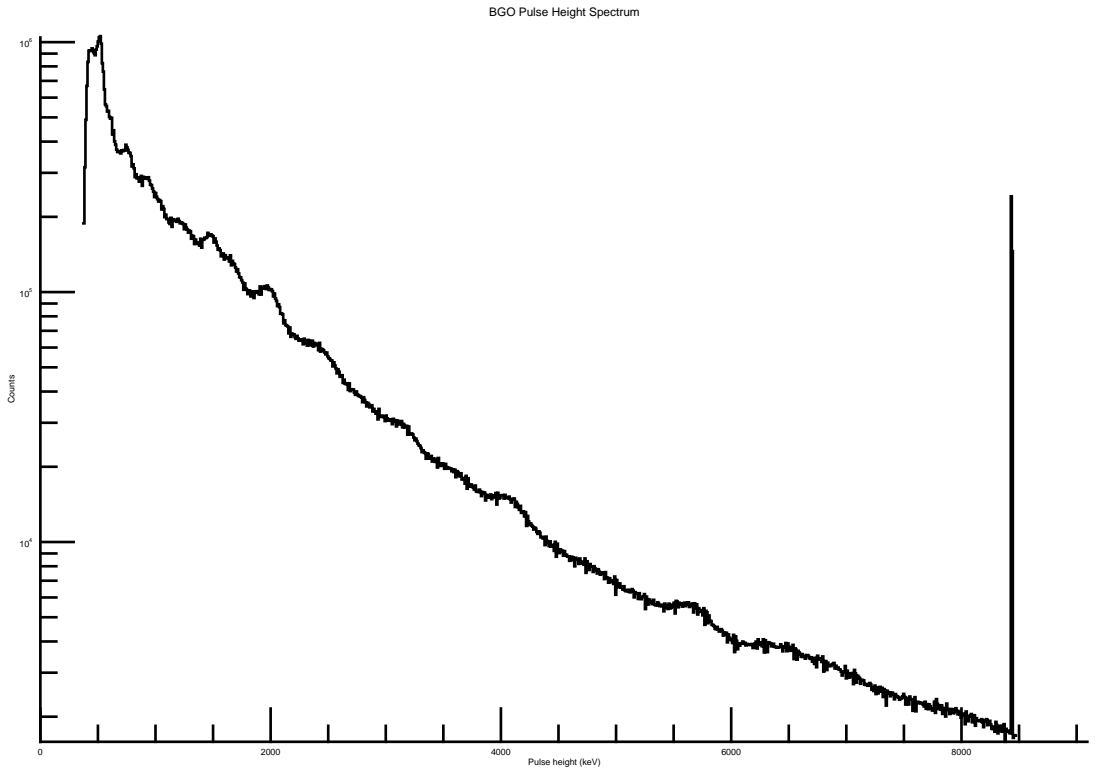
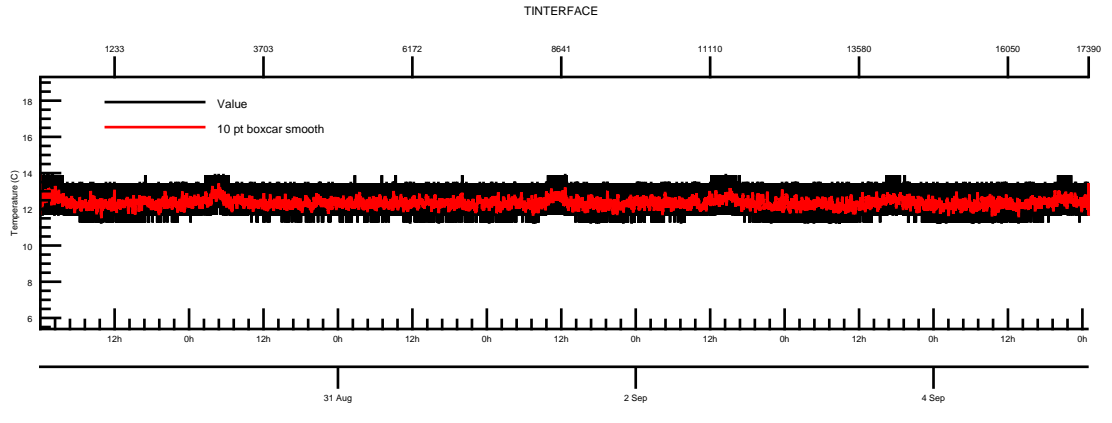
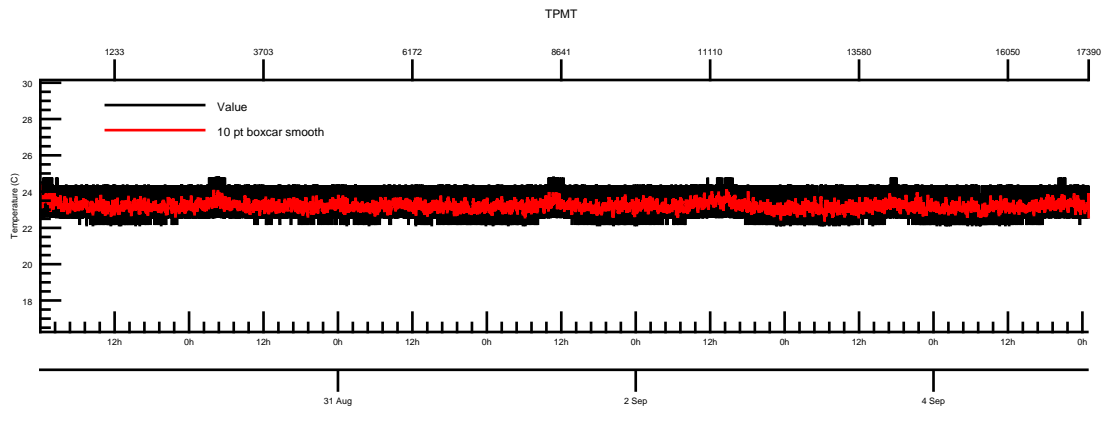


THVPS

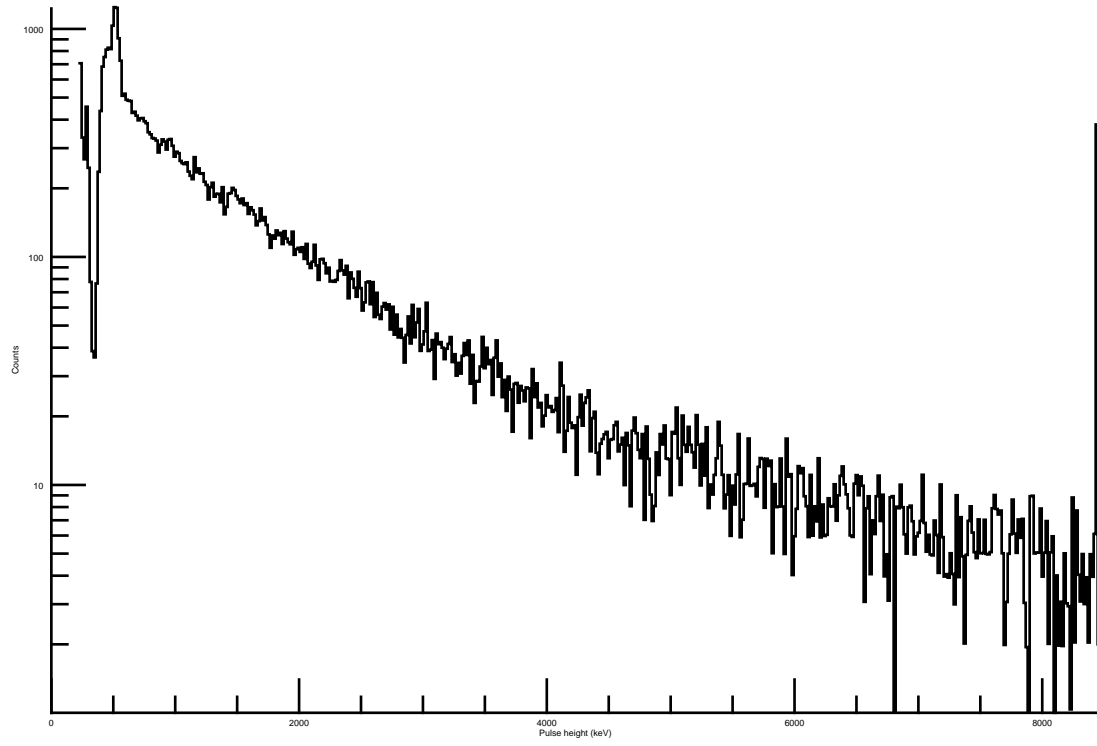


TBGO

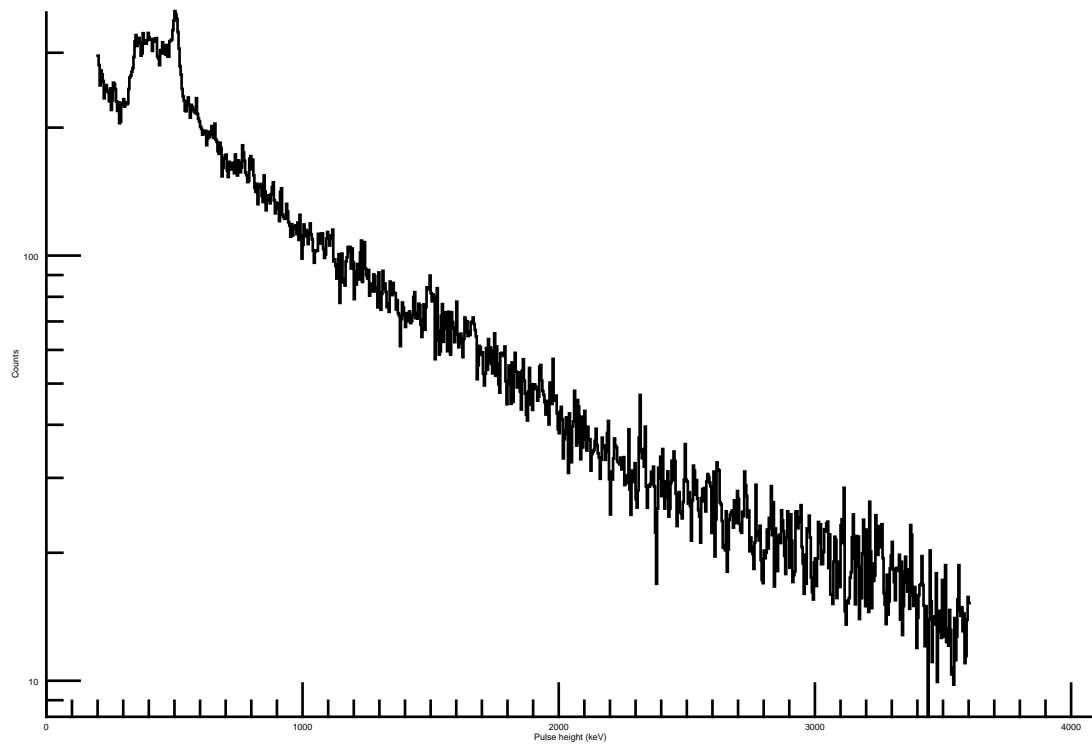




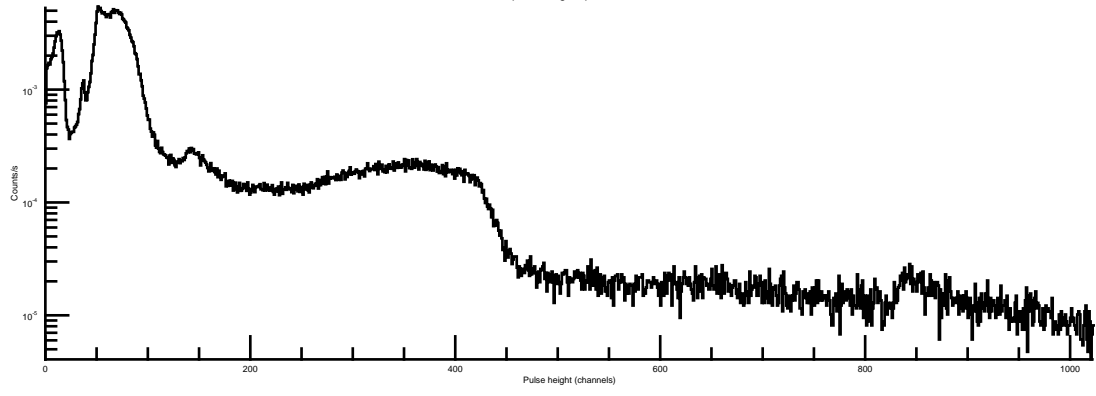
BGO-CZT pair spectrum: BGO



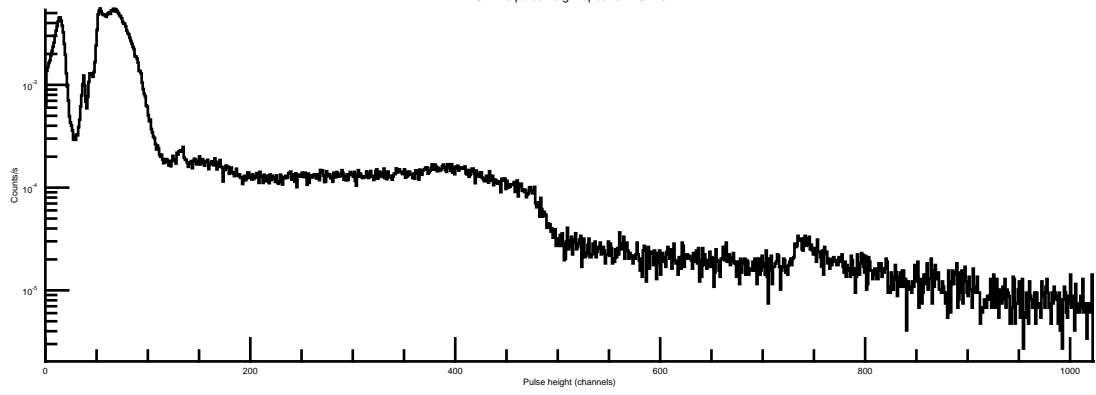
BGO-CZT pair spectrum: CZT



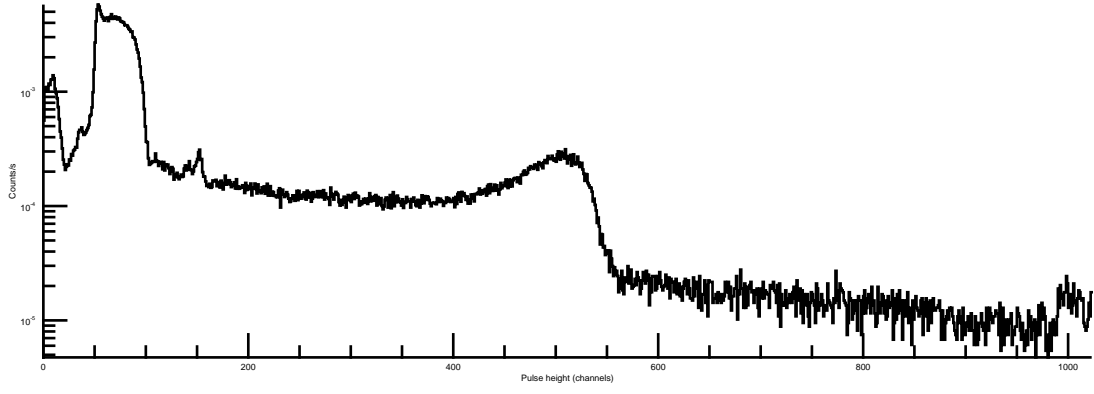
CAT10 pulse height spectrum: CZT11



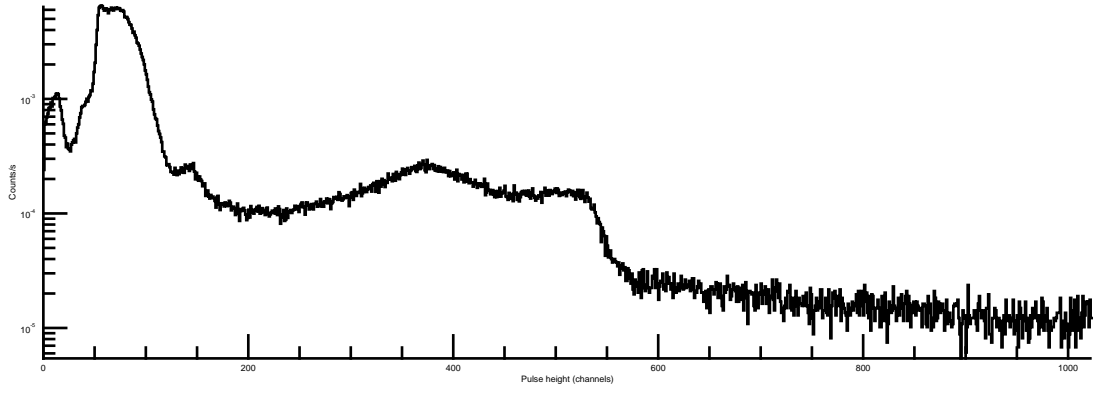
CAT10 pulse height spectrum: CZT3



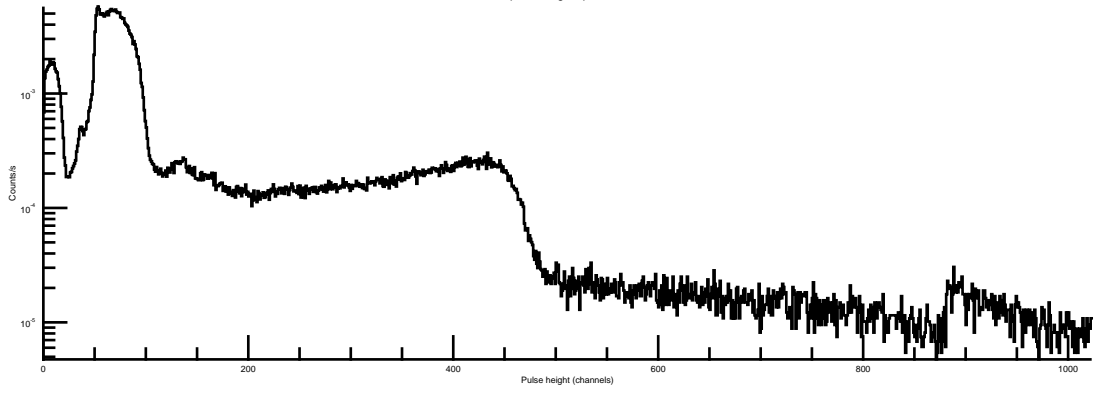
CAT10 pulse height spectrum: CZT2



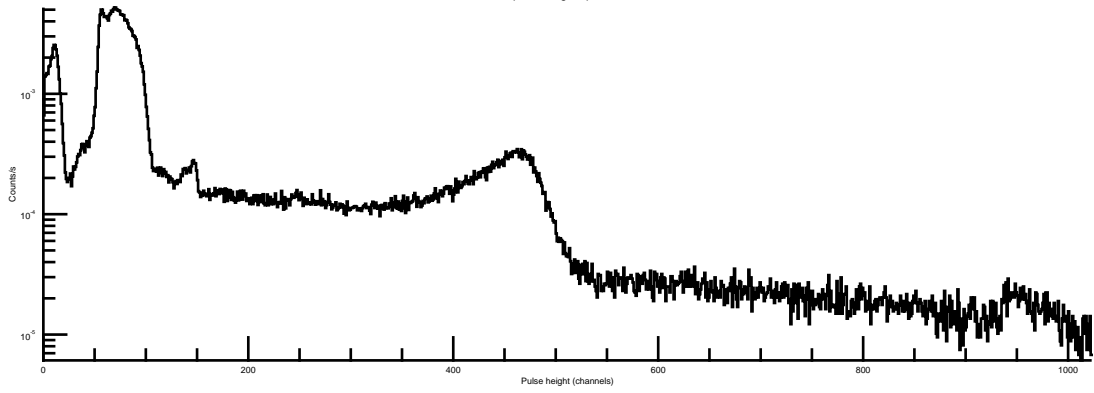
CAT10 pulse height spectrum: CZT8



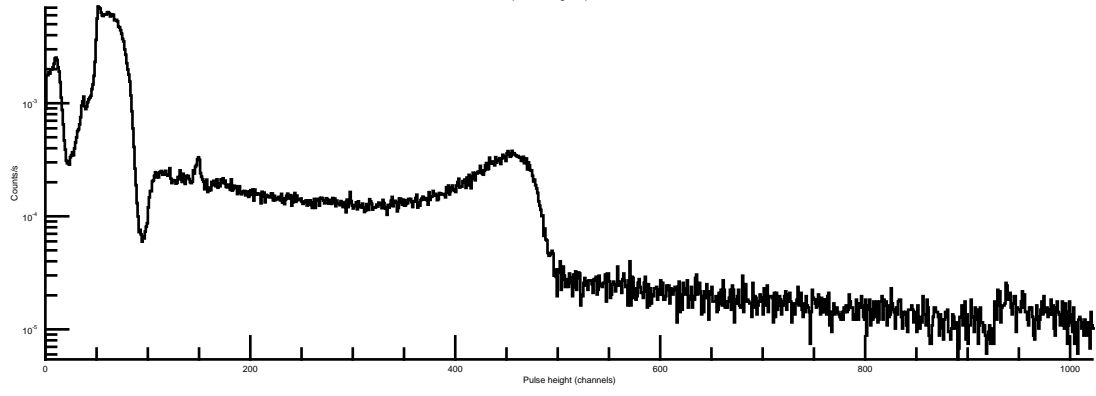
CAT10 pulse height spectrum: CZT10



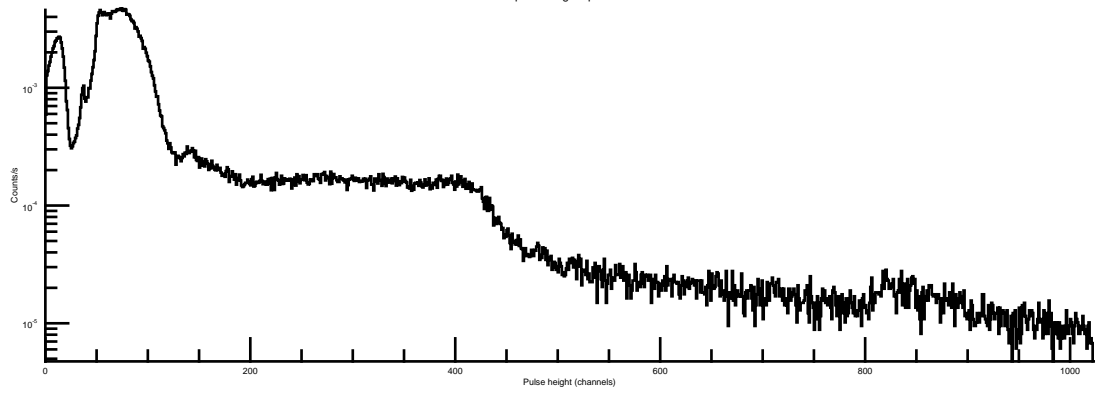
CAT10 pulse height spectrum: CZT0



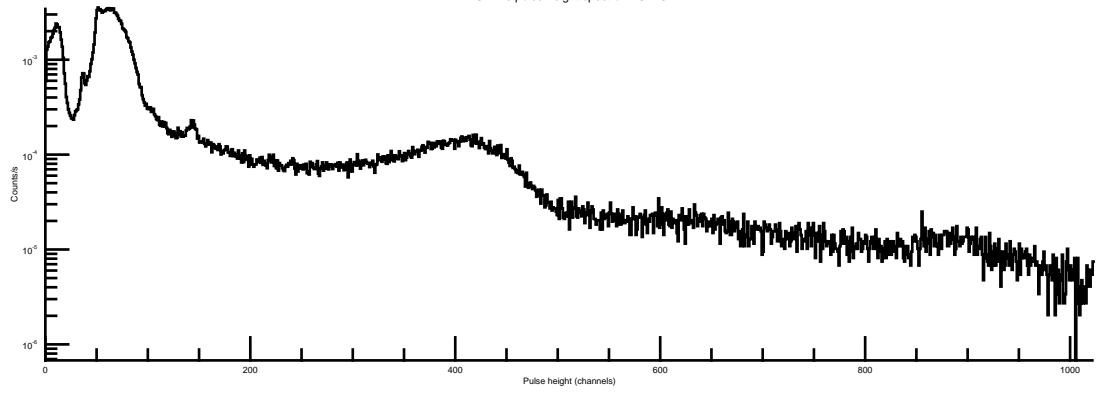
CAT10 pulse height spectrum: CZT15



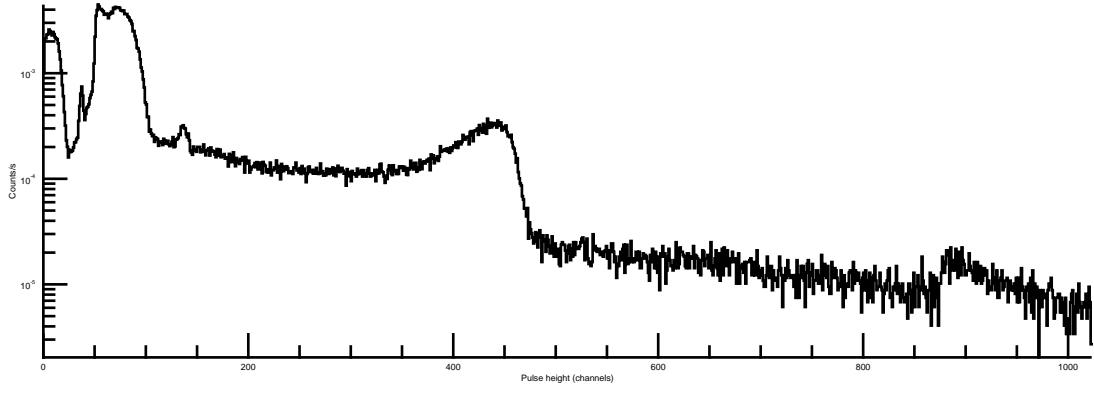
CAT10 pulse height spectrum: CZT7



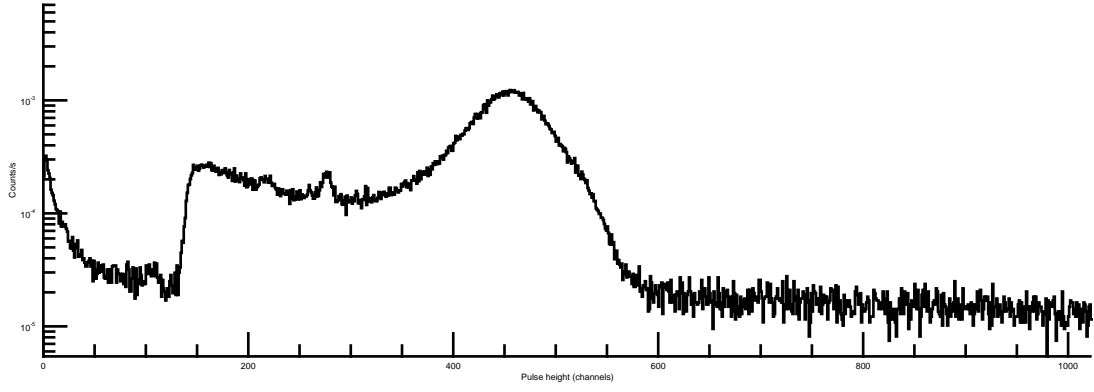
CAT10 pulse height spectrum: CZT5



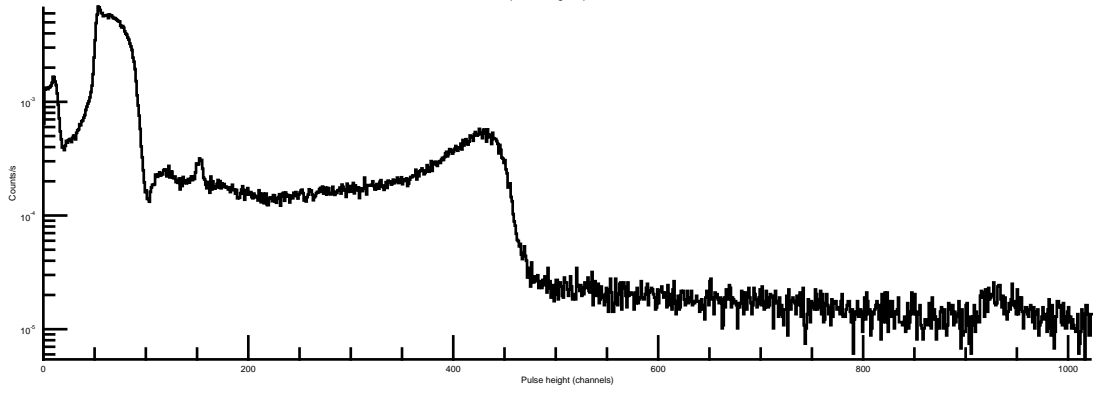
CAT10 pulse height spectrum: CZT6



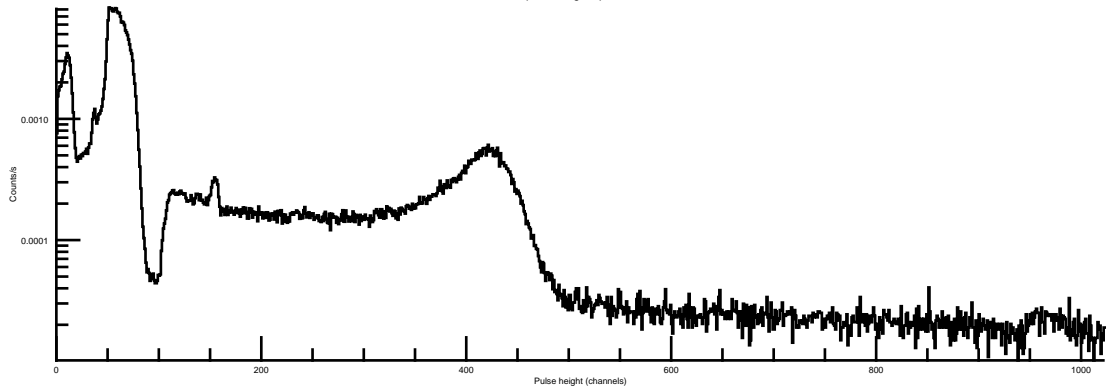
CAT10 pulse height spectrum: CZT12



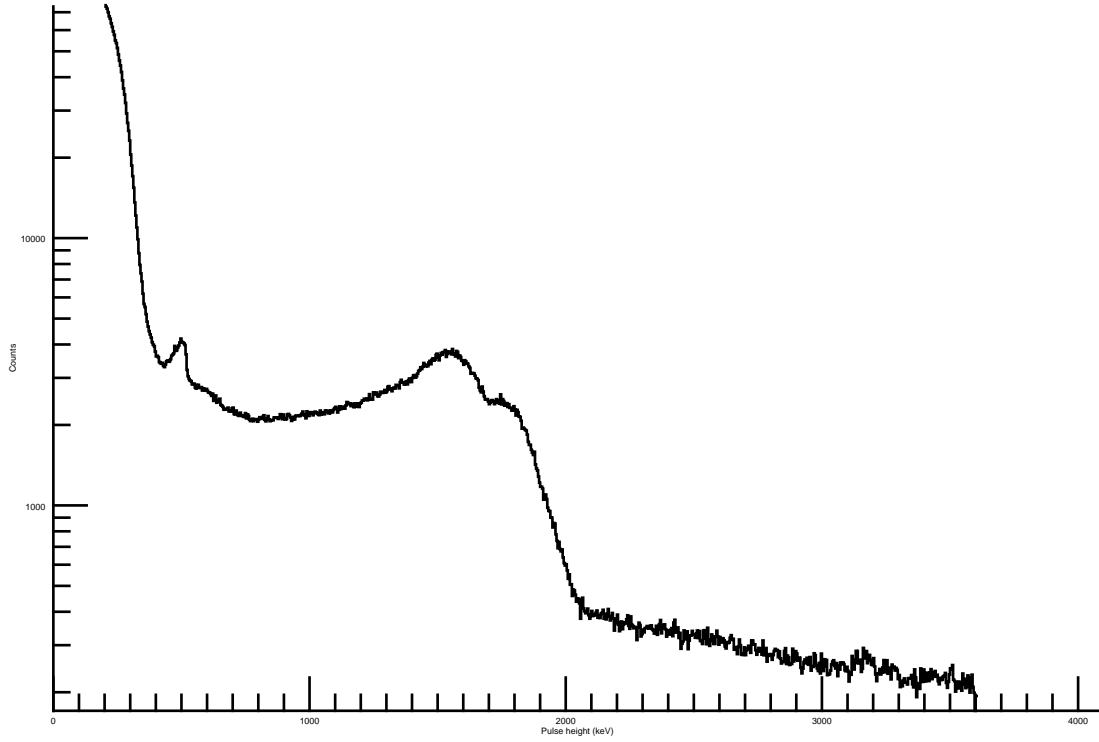
CAT10 pulse height spectrum: CZT14



CAT10 pulse height spectrum: CZT4



CAT10 CZT composite



CAT1 histograms

