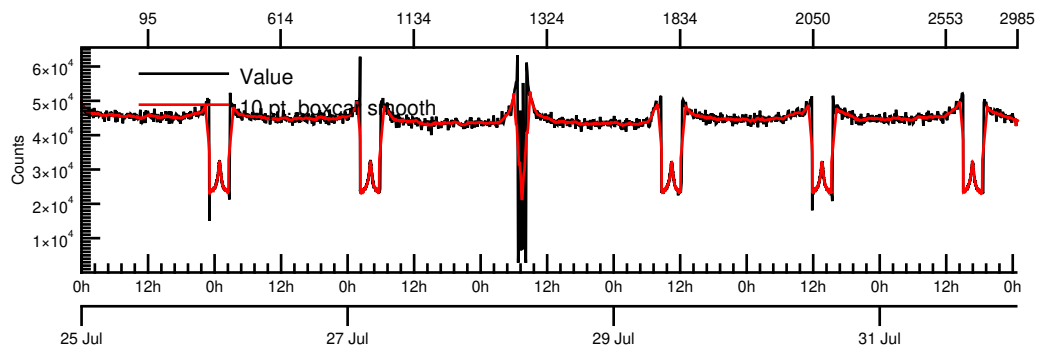


NASA Dawn Mission  
GRaND@Ceres Browse Charts  
Ceres c2e DA943 18206\_0

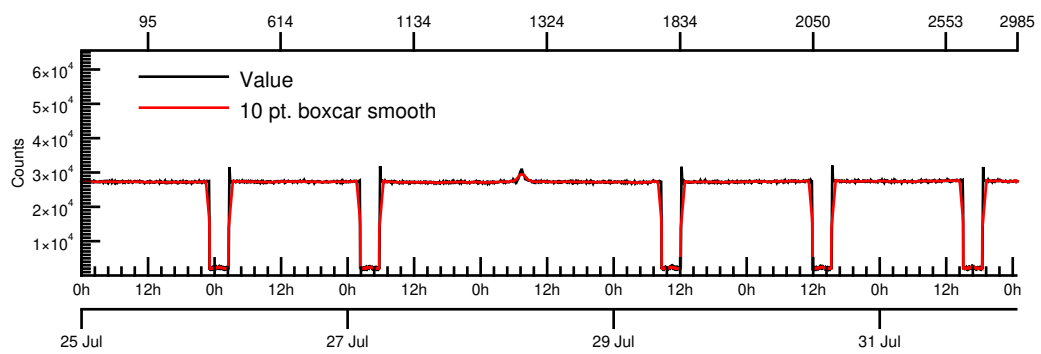
- Number of science records: 2986  
0 missing science packets with 0 gaps.  
Start/End: 2018-07-25T00:01:52 to 2018-08-01T00:54:04
- Number of SOH records: 17385  
5 missing SOH packets with 5 gaps.  
Start/End: 2018-07-25T00:00:33 to 2018-08-01T00:59:33
- Comments: Browse charts.
  - Provides an overview 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 = 21
- Instrument settings for first state (STATE\_INDEX 16724):

|            |     |               |      |
|------------|-----|---------------|------|
| TELREADOUT | 455 | 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    |

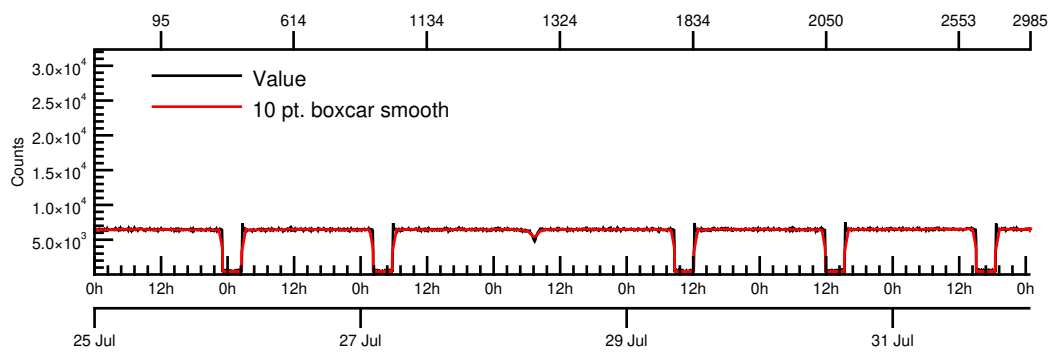
Dead time counts



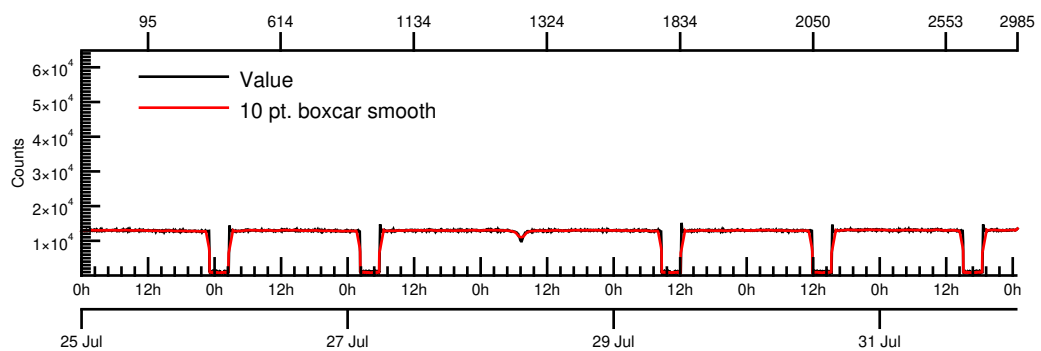
BGO overload events



CZT overload events

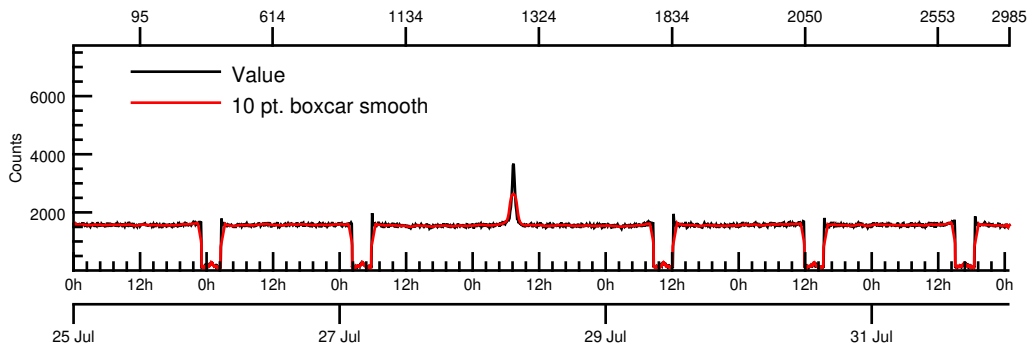


+Z phoswich overload events

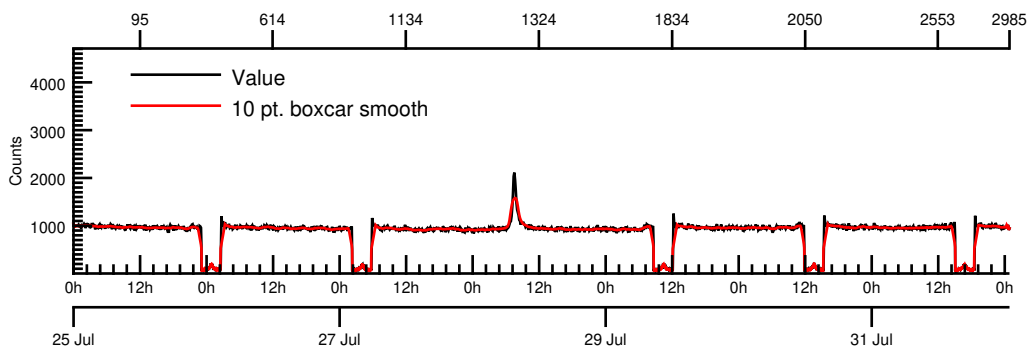




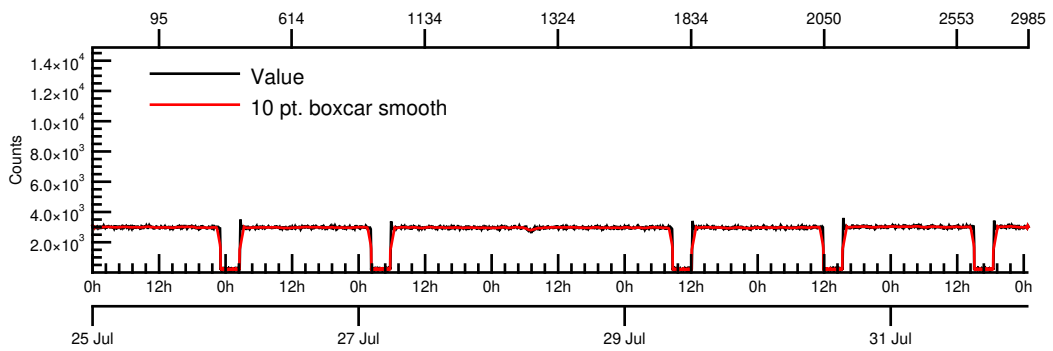
-Y BLP CAT4 events



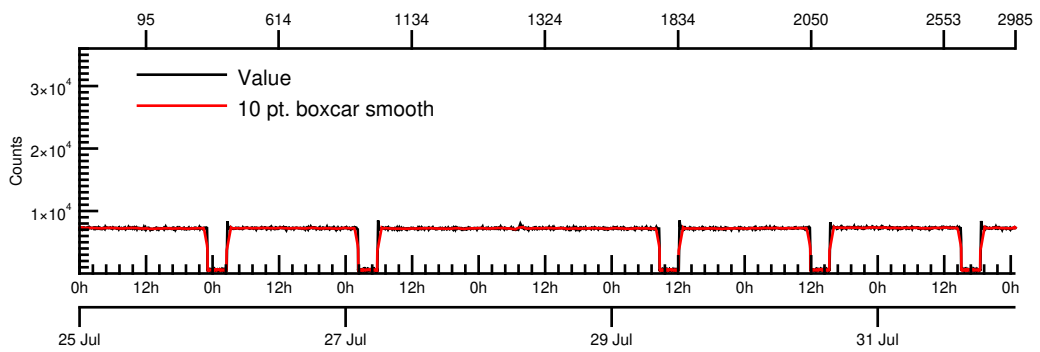
+Y BLP CAT4 events

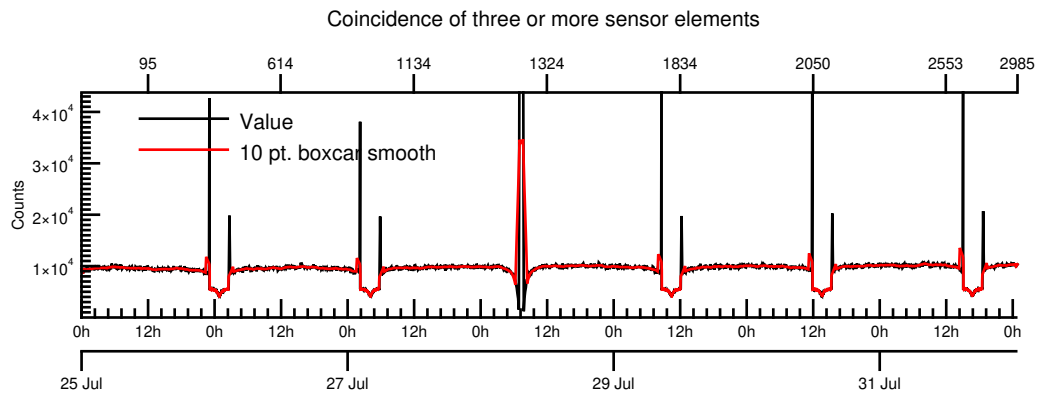
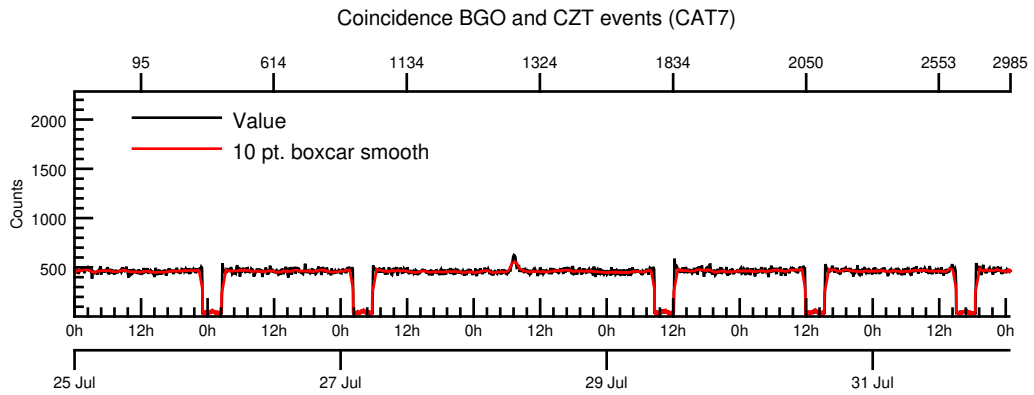
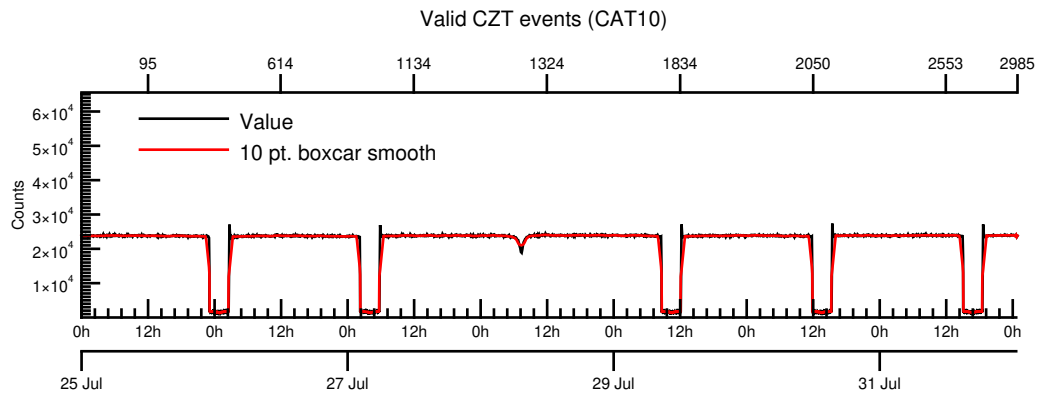
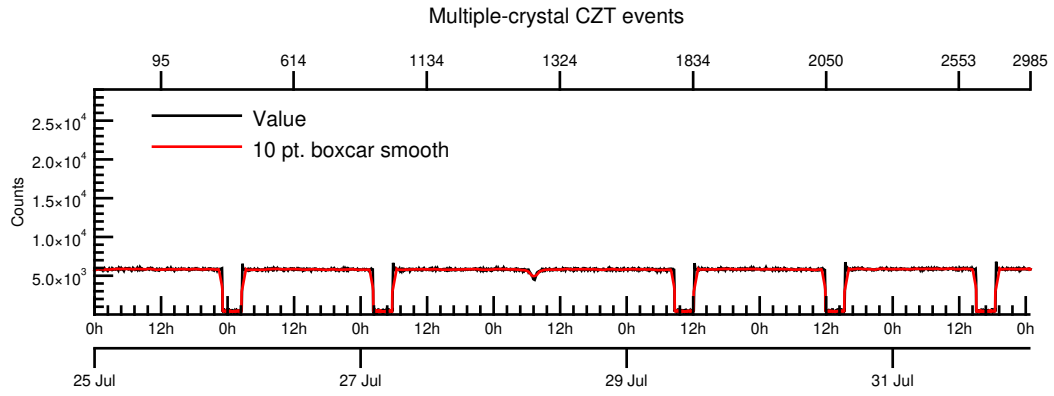


-Z phoswich CAT4 events

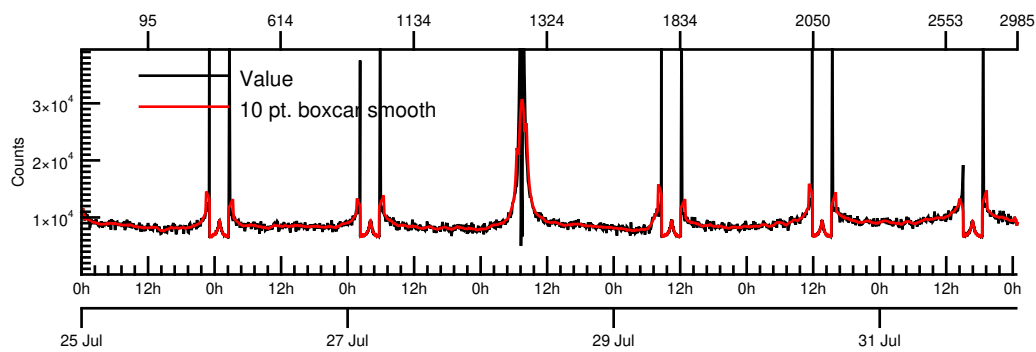


Early second interaction events

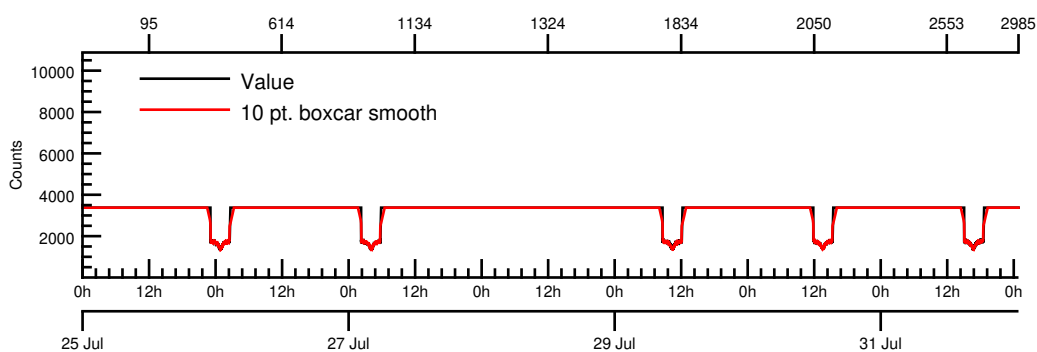




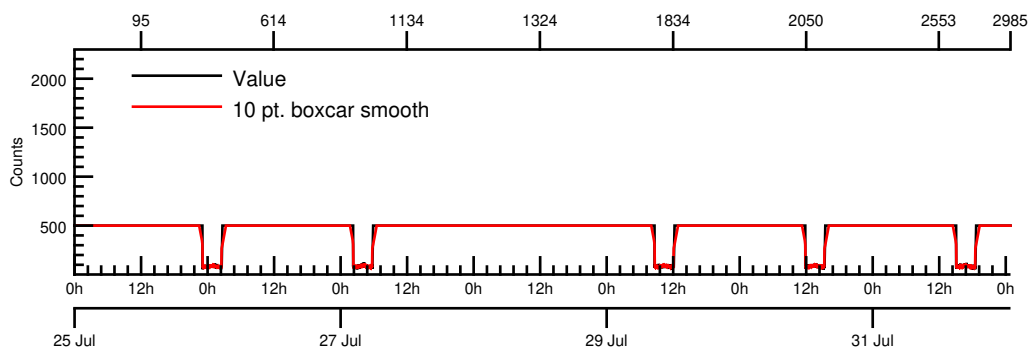
Total events processed by GRaND



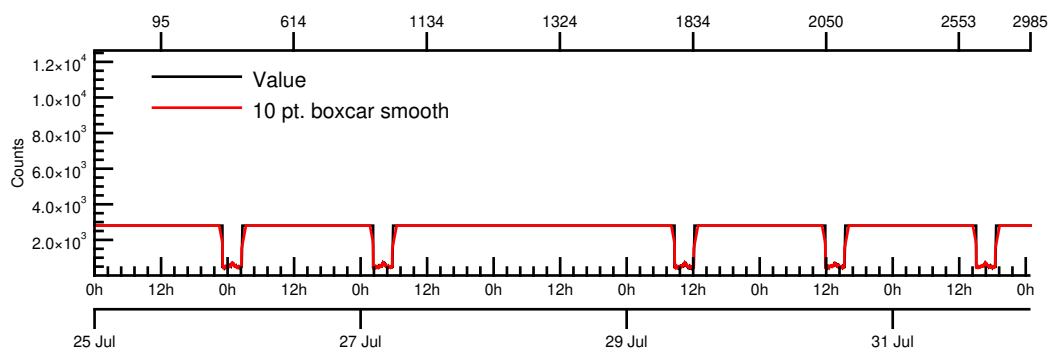
Number of single CZT events (CAT10) in the gamma ray event buffer



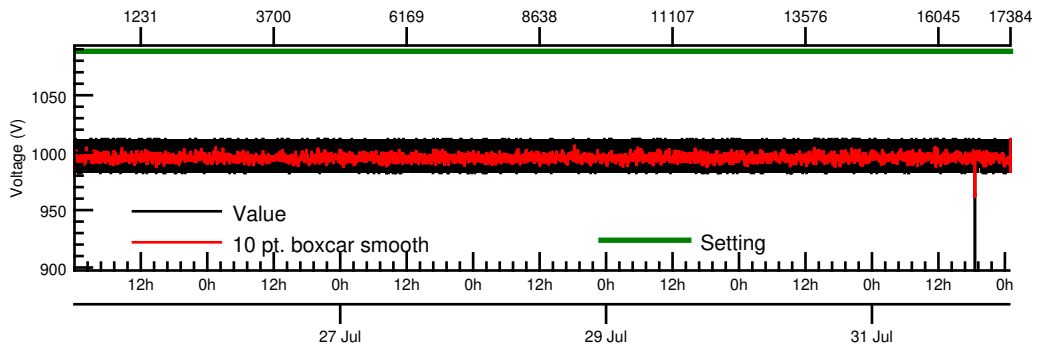
Number of BGO-CZT events (CAT7) in the gamma ray event buffer



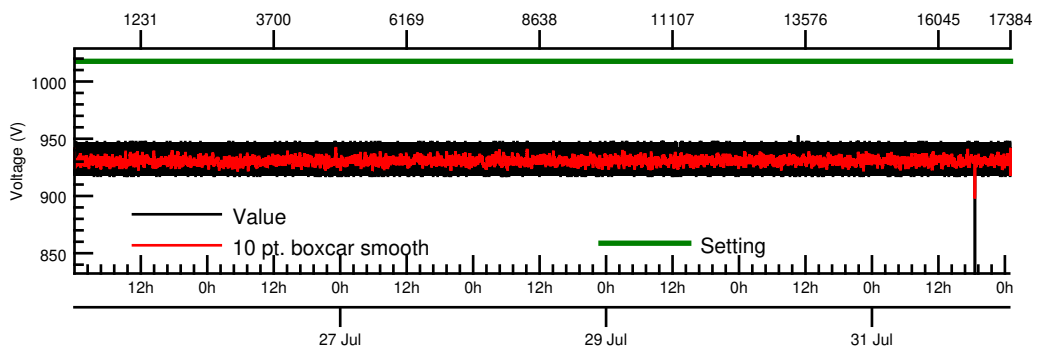
Number of events (CAT4) in the neutron event buffer



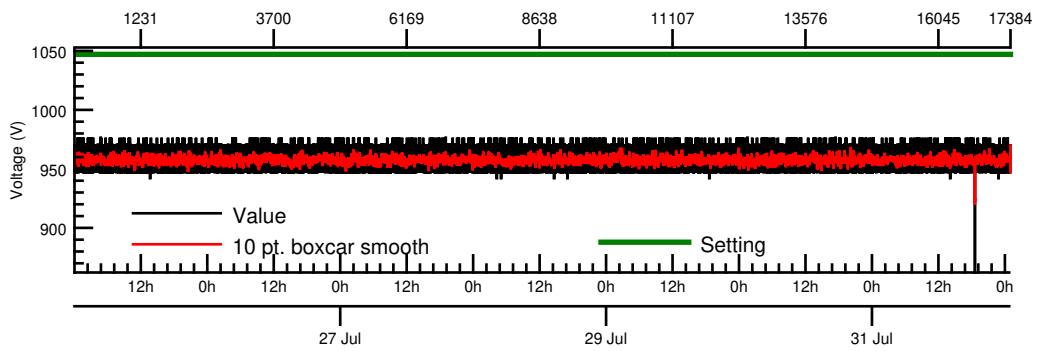
HVPS1 (+Z)



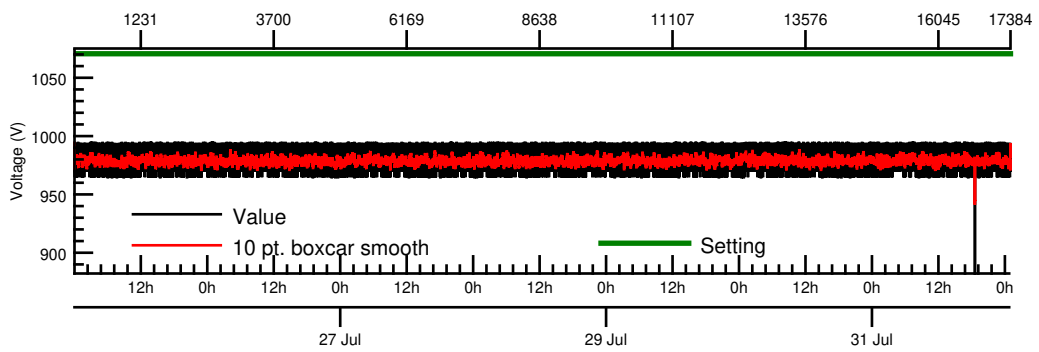
HVPS2 (-Y)



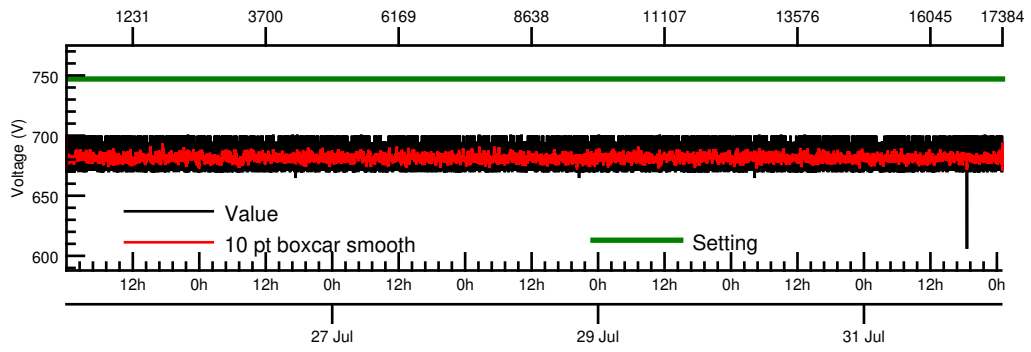
HVPS3 (+Y)



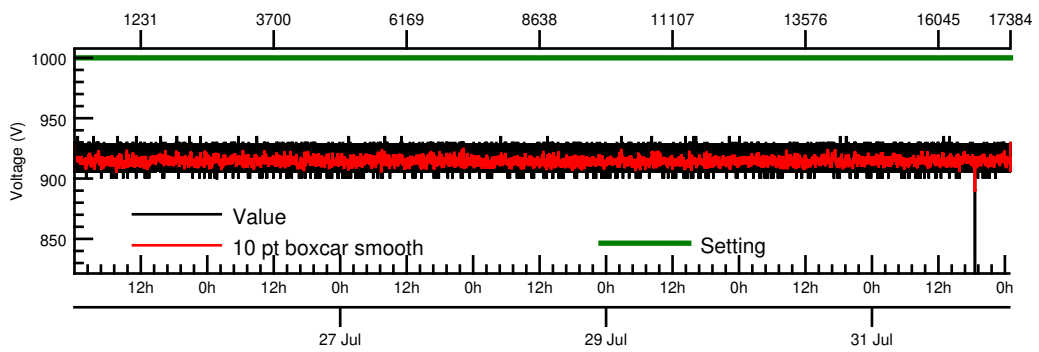
HVPS4 (-Z)



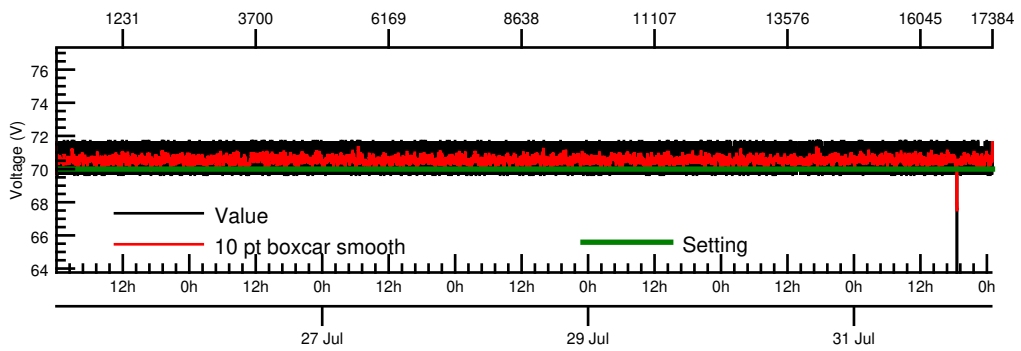
HVPS5 (BGO)



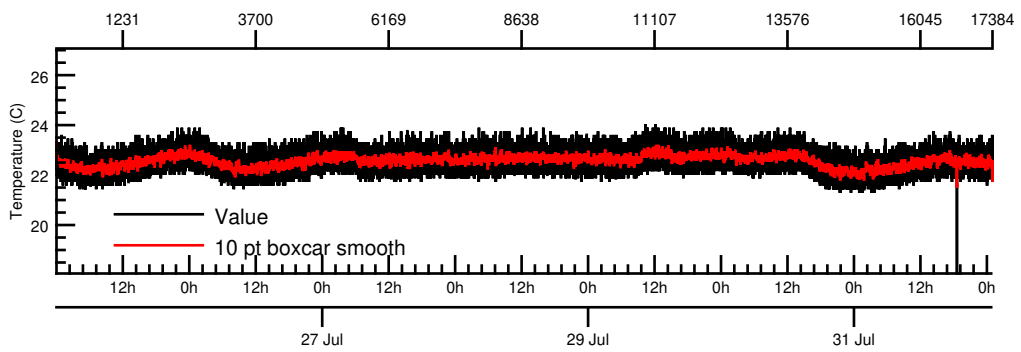
HVPS6 (CZT)



HVPS70 (CZT grid bias)

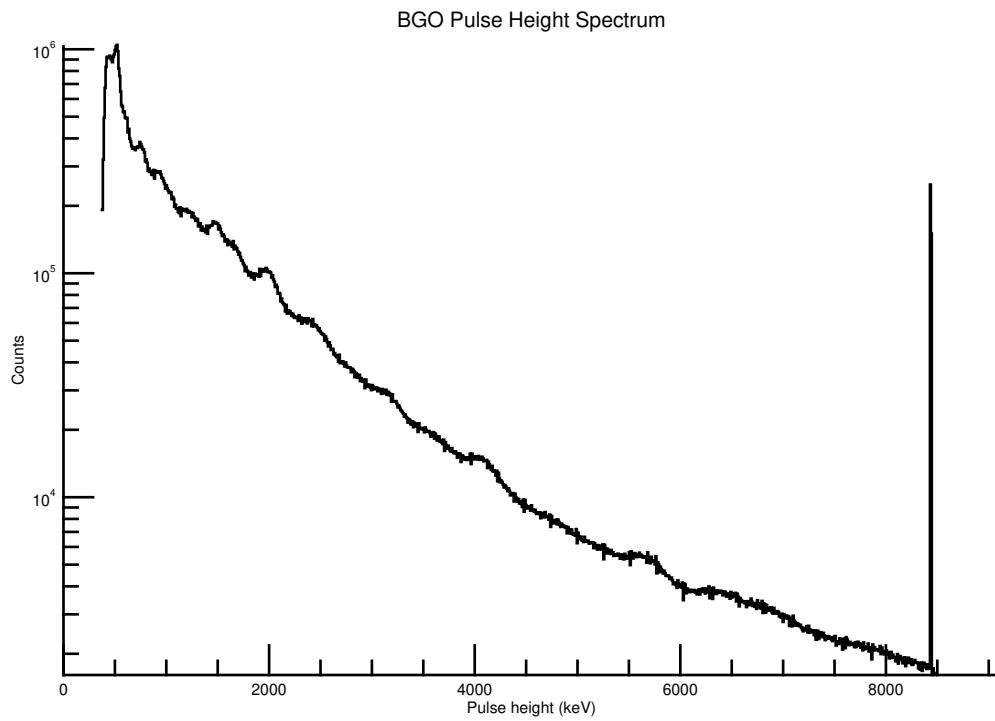
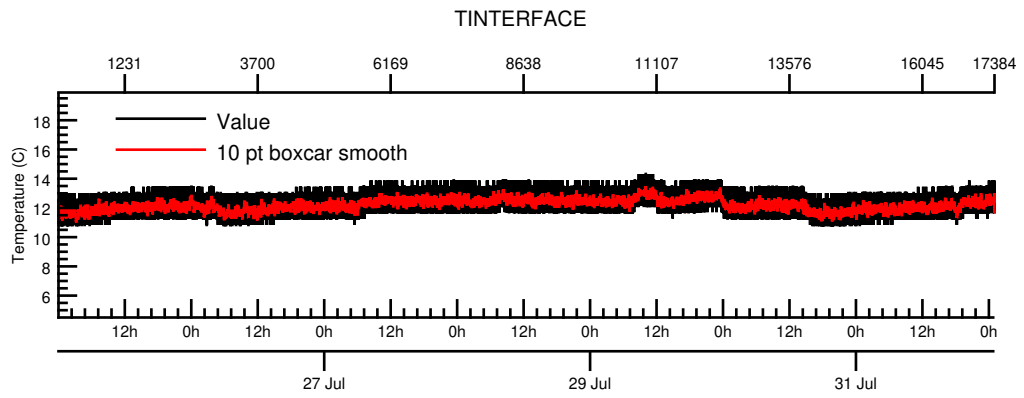
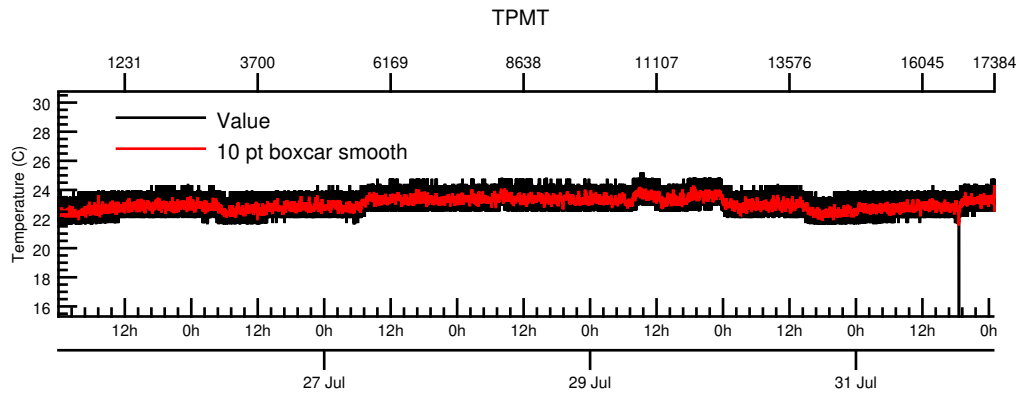


TCZT<1,2,3>

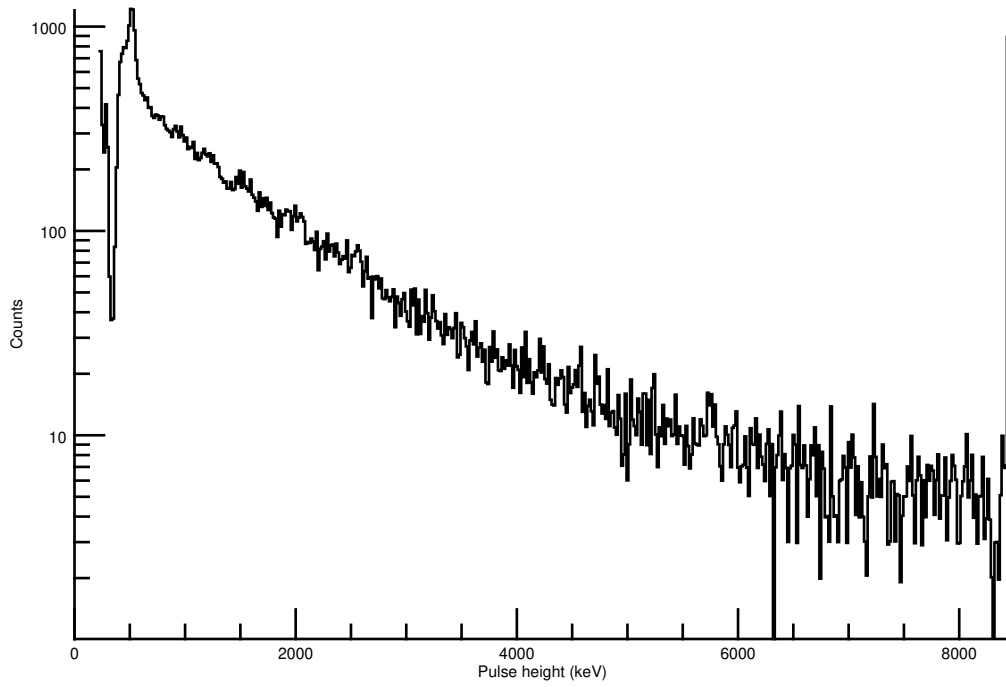




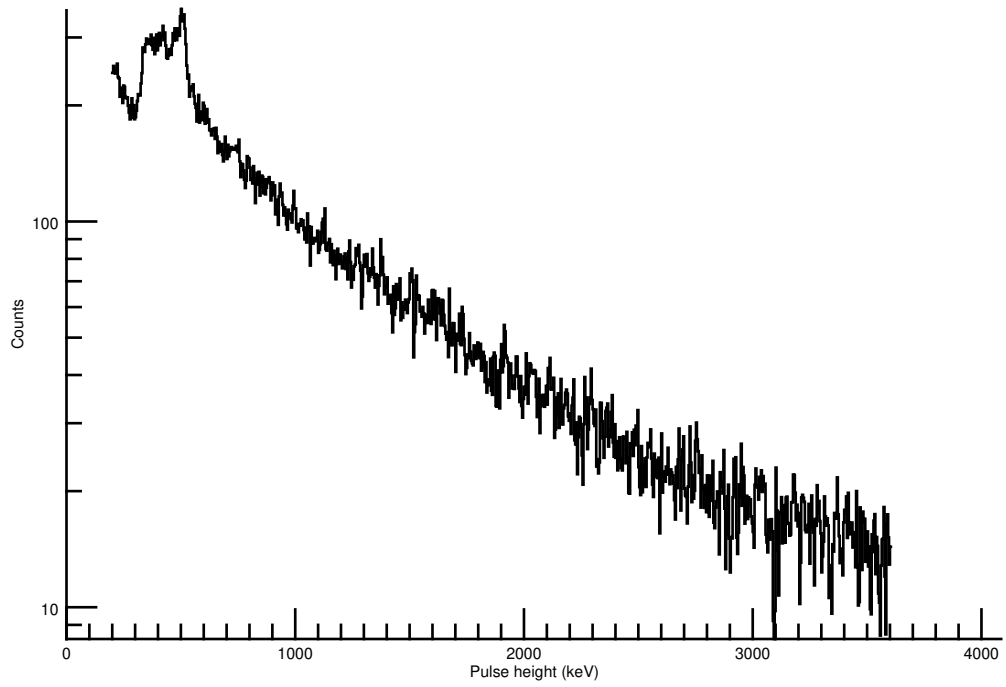




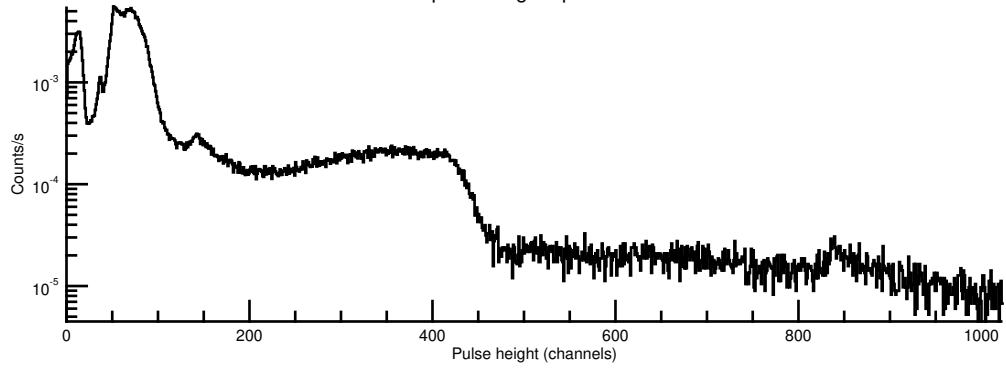
BGO-CZT pair spectrum: BGO



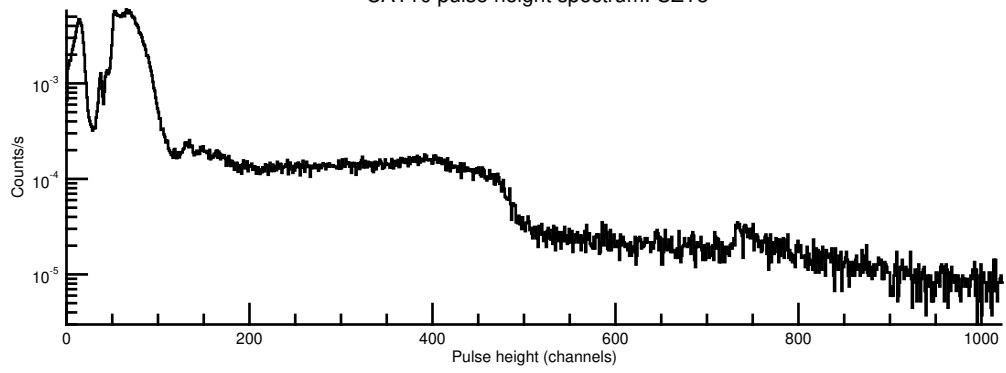
BGO-CZT pair spectrum: CZT



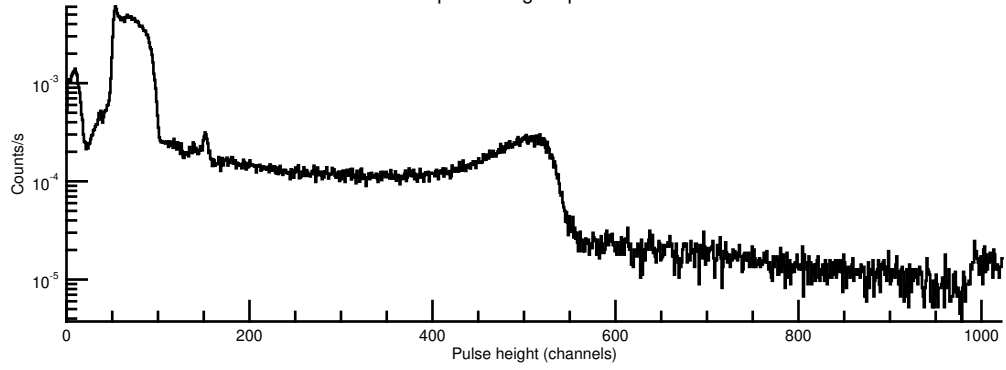
CAT10 pulse height spectrum: CZT11



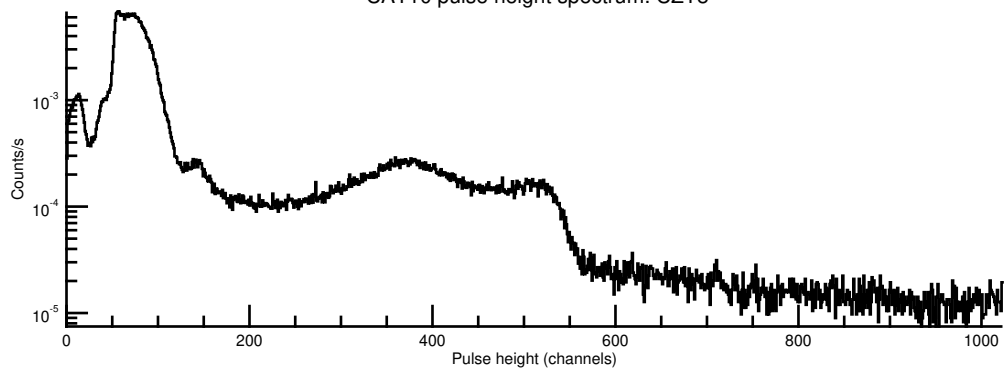
CAT10 pulse height spectrum: CZT3



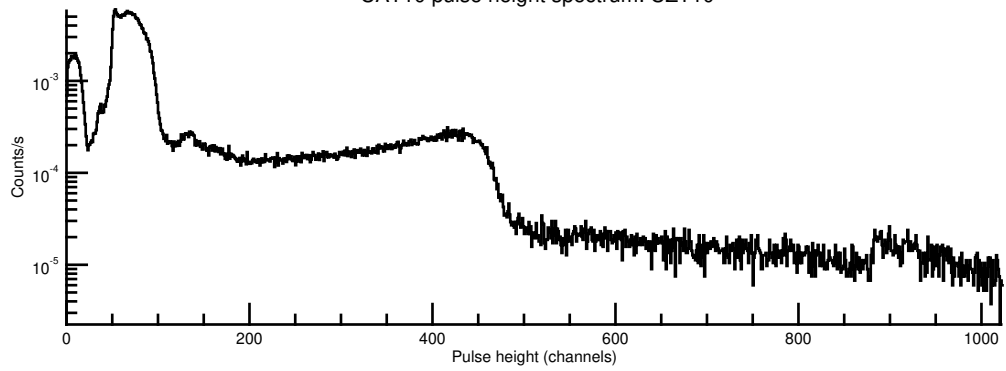
CAT10 pulse height spectrum: CZT2



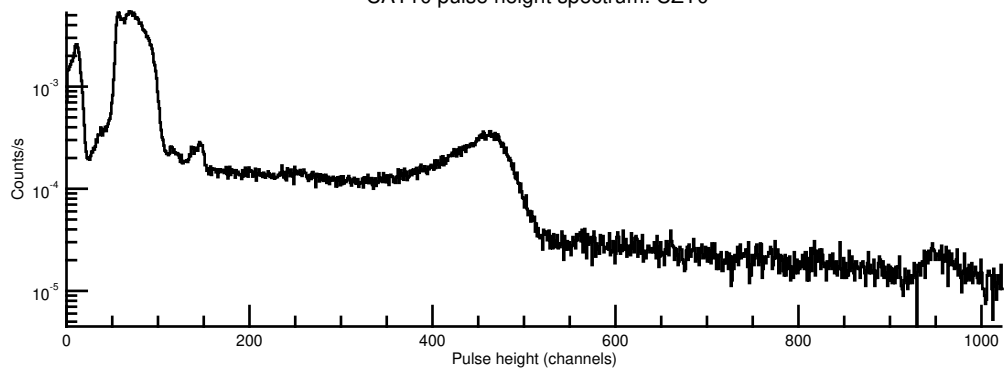
CAT10 pulse height spectrum: CZT8



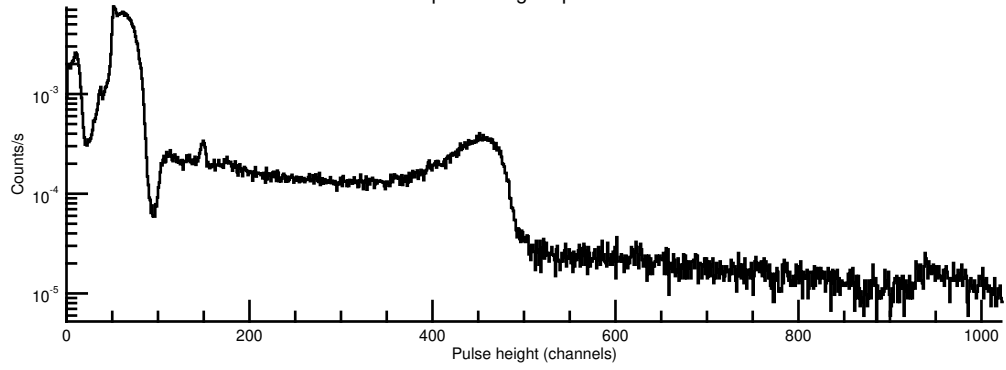
CAT10 pulse height spectrum: CZT10



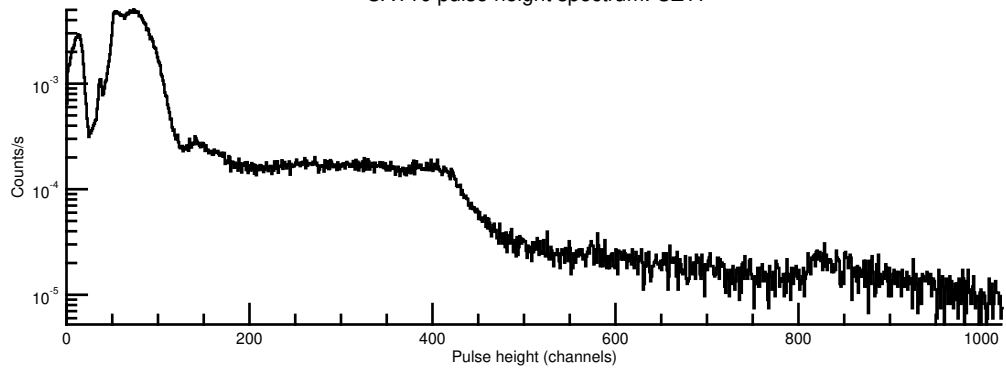
CAT10 pulse height spectrum: CZT0



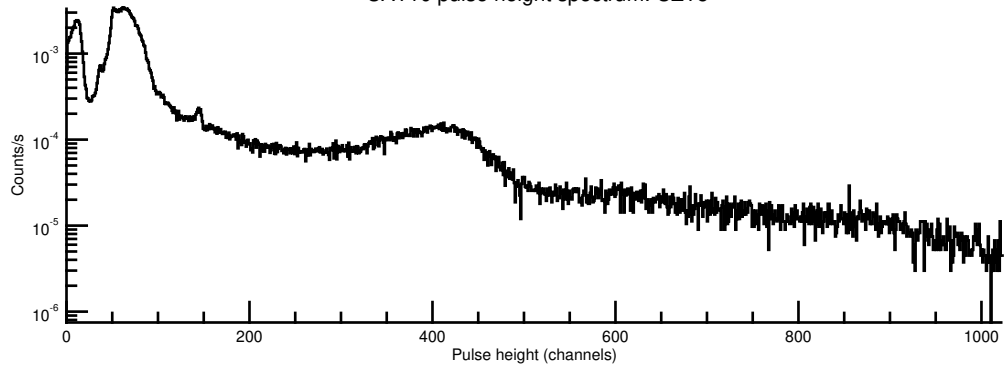
CAT10 pulse height spectrum: CZT15



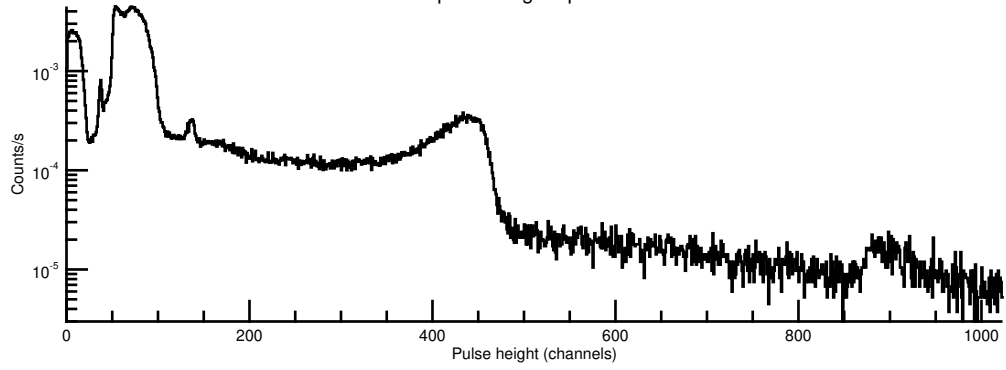
CAT10 pulse height spectrum: CZT7



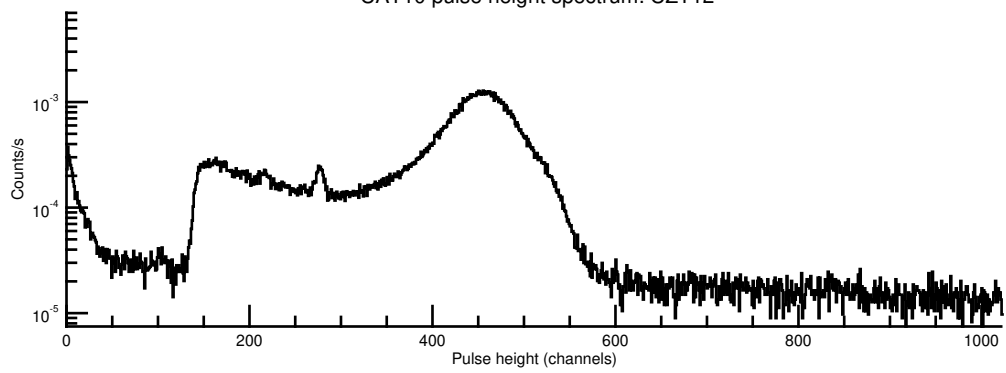
CAT10 pulse height spectrum: CZT5



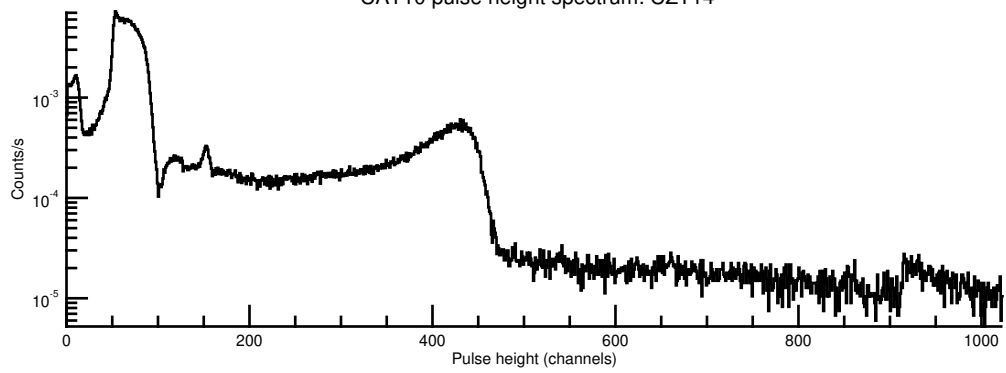
CAT10 pulse height spectrum: CZT6



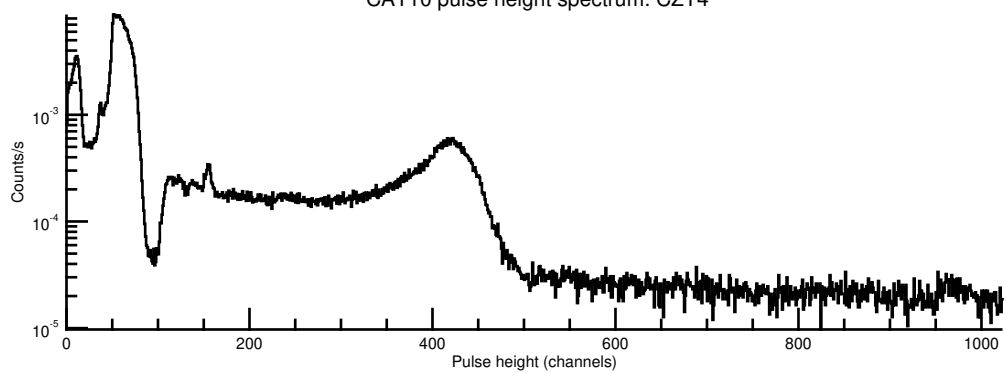
CAT10 pulse height spectrum: CZT12



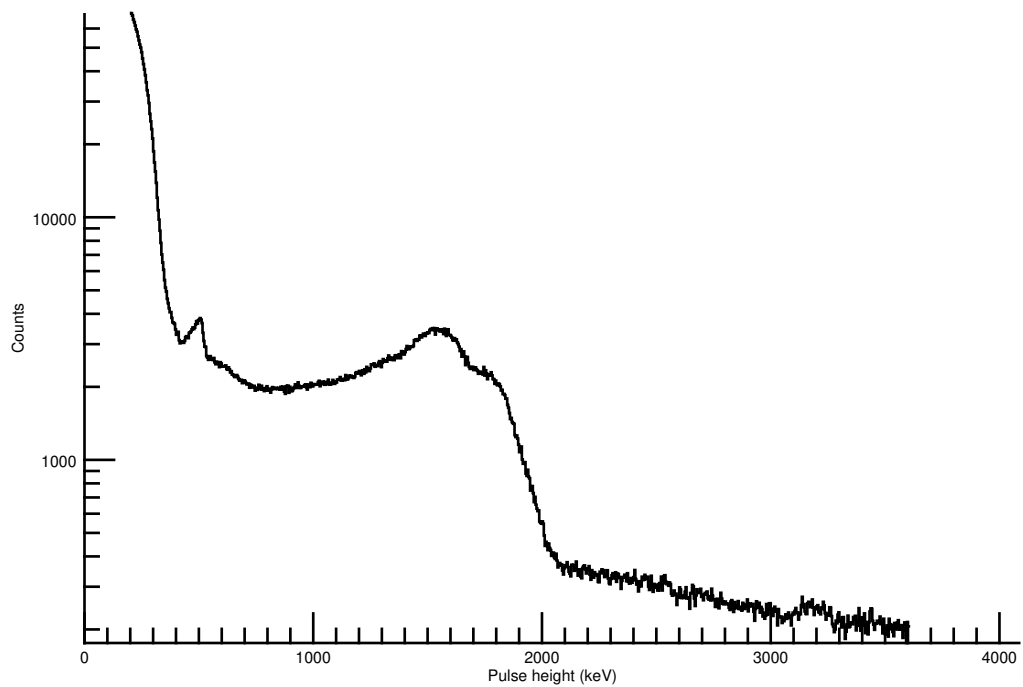
CAT10 pulse height spectrum: CZT14



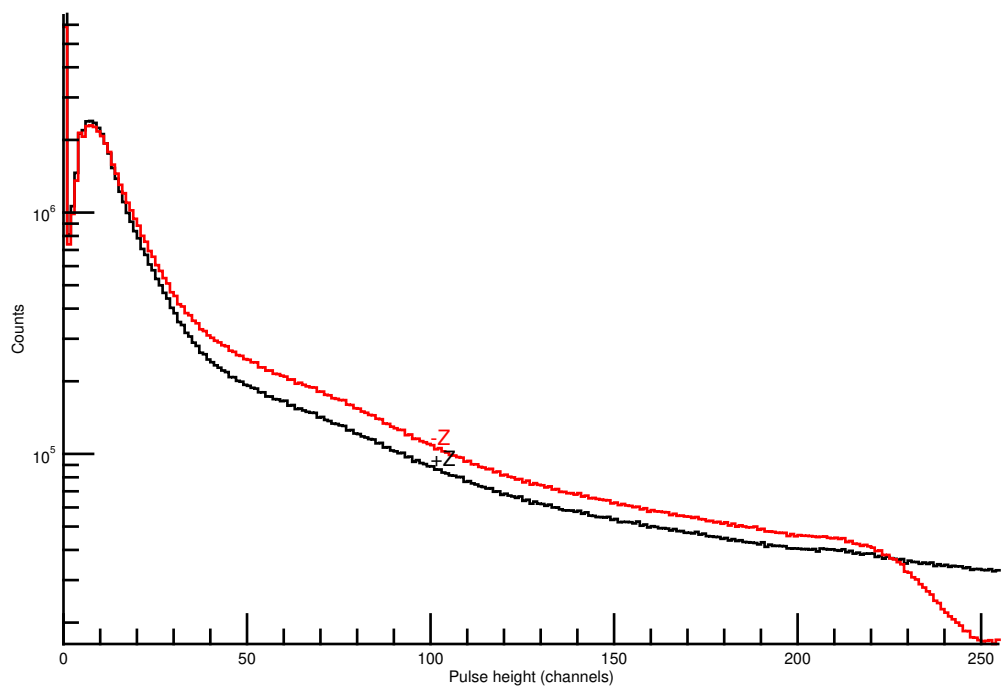
CAT10 pulse height spectrum: CZT4



CAT10 CZT composite

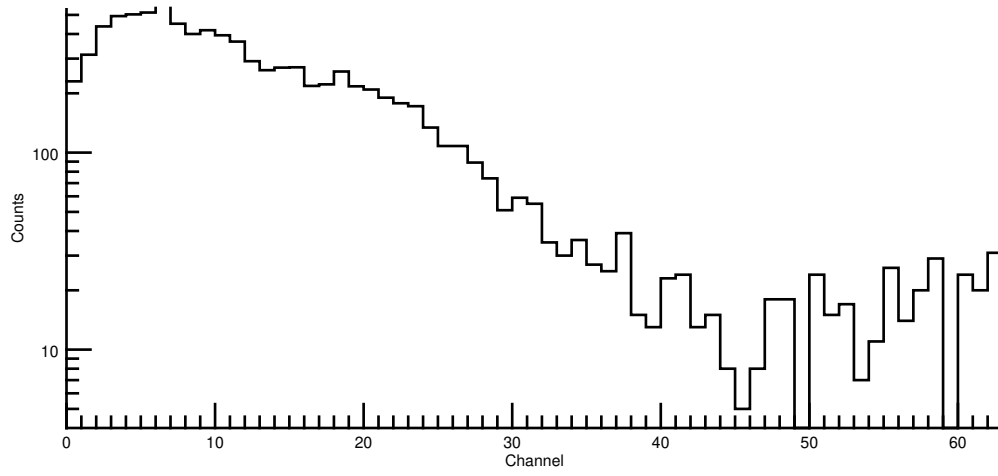


CAT1 histograms

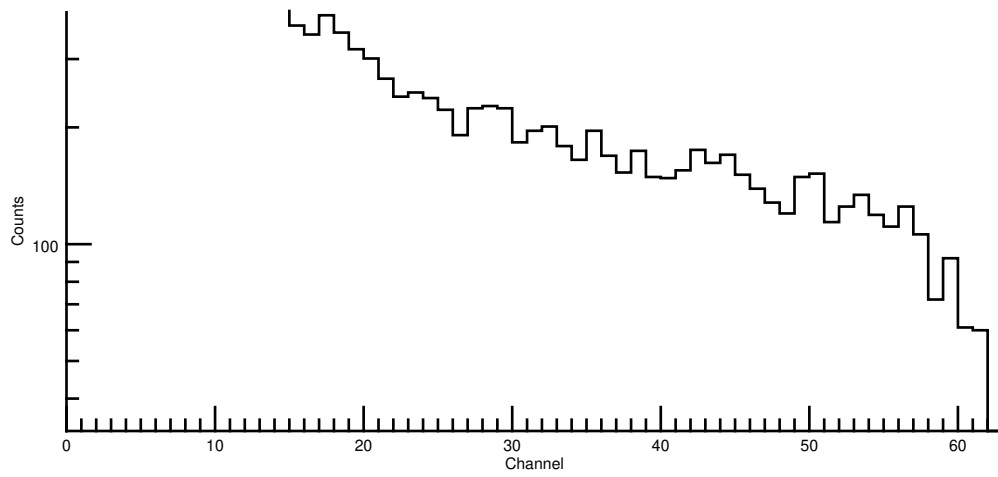




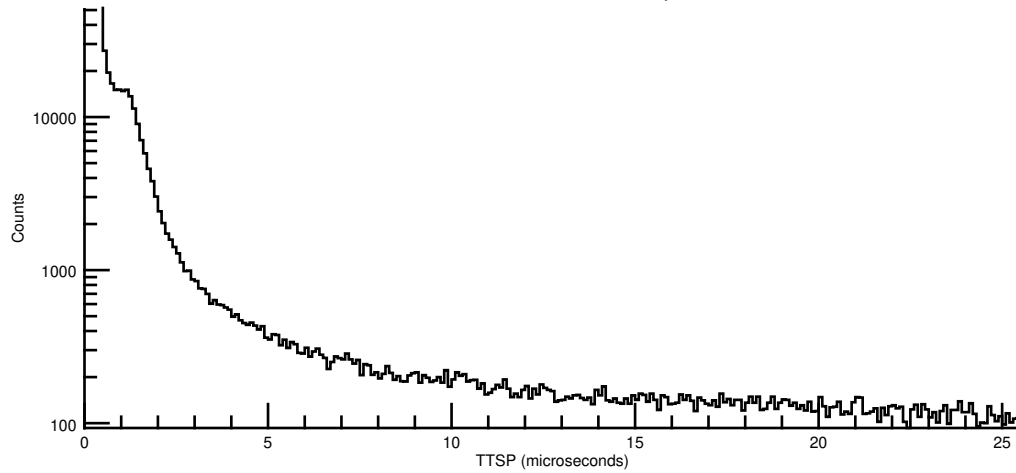
+Z BLP CAT4 first pulse



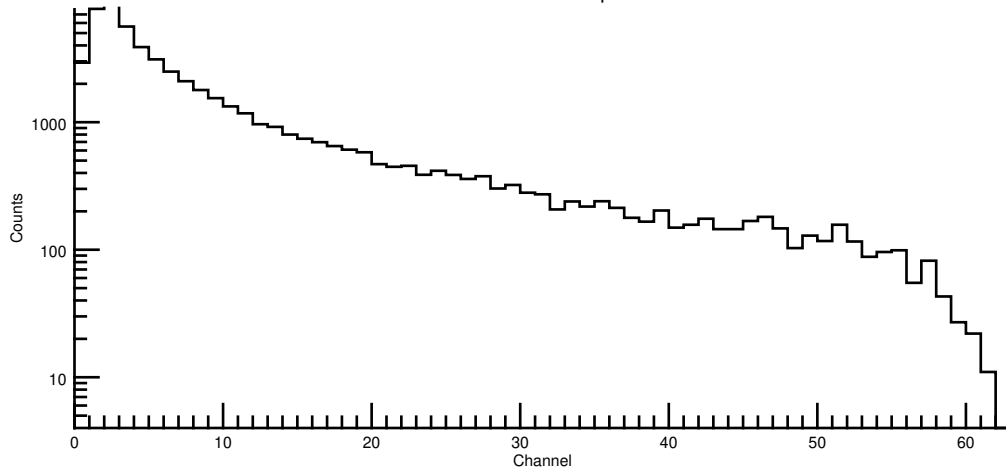
+Z BLP CAT4 second pulse



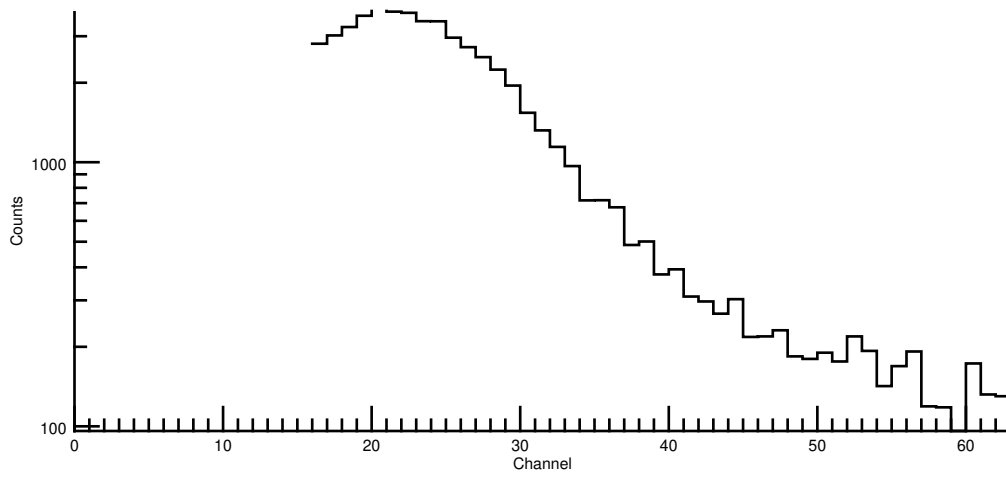
+Z BLP CAT4 time to second pulse



-Y BLP CAT4 first pulse



-Y BLP CAT4 second pulse



-Y BLP CAT4 time to second pulse

