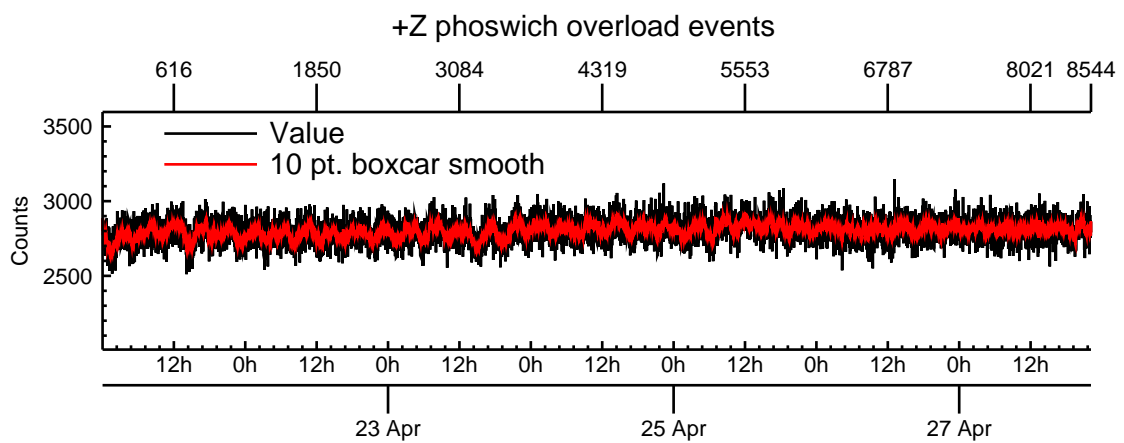
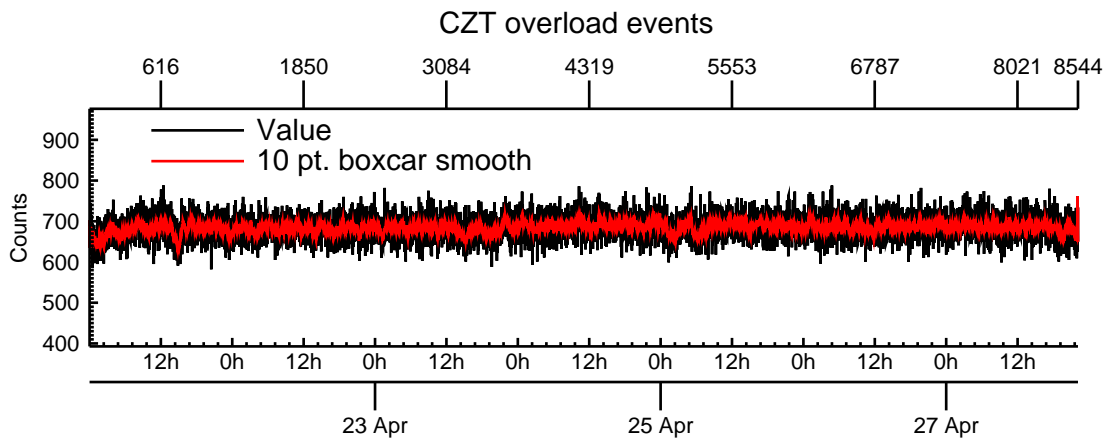
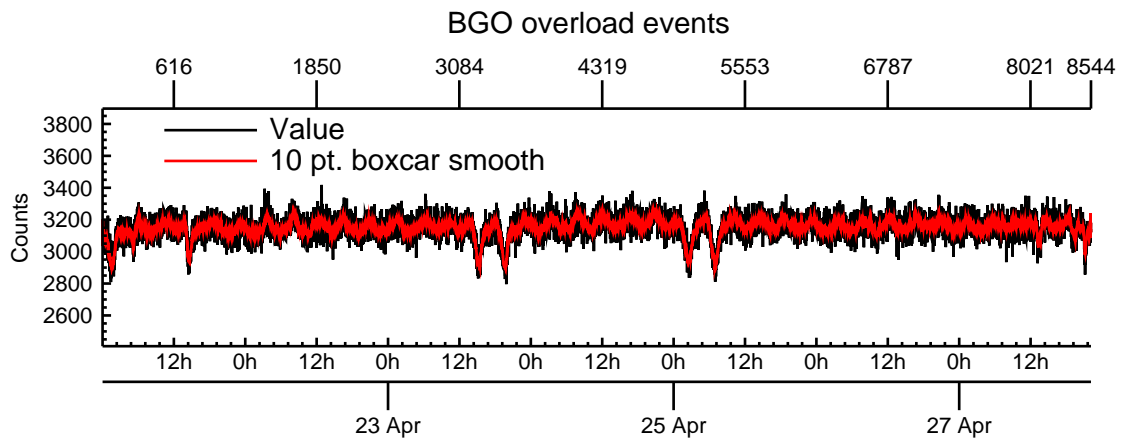
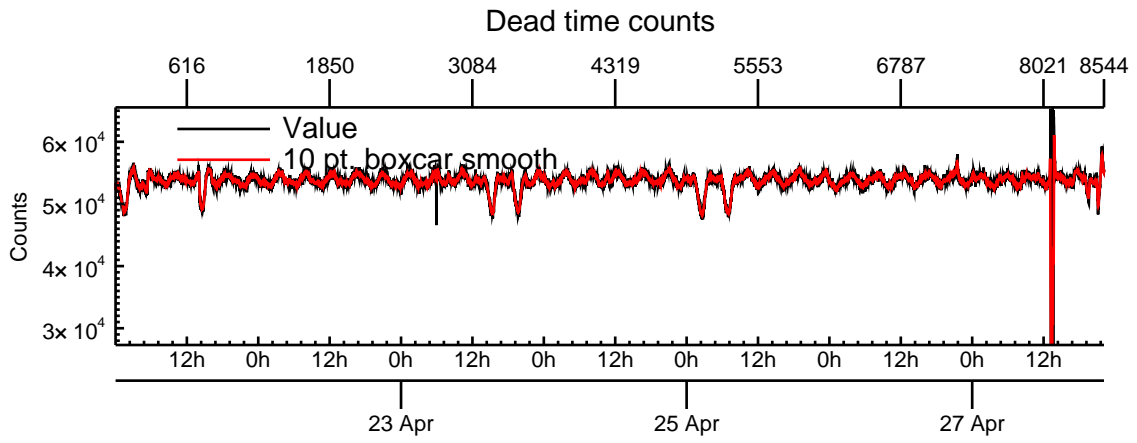


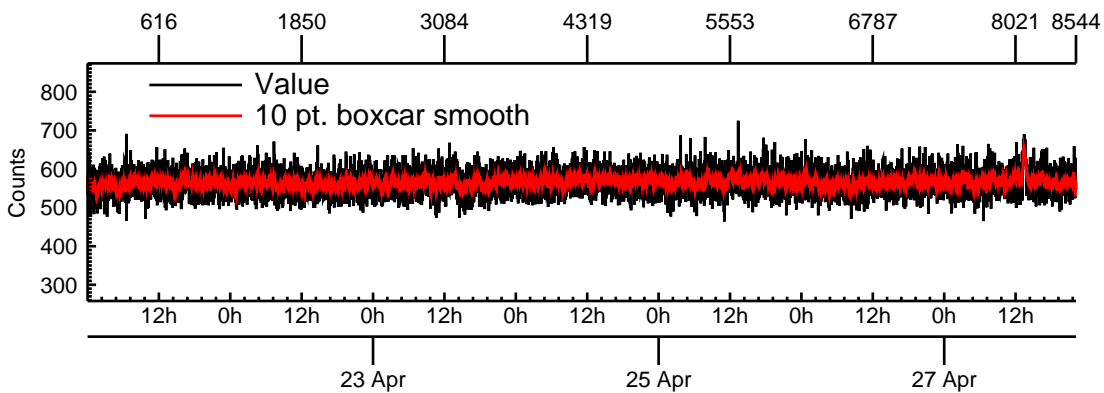
NASA Dawn Mission  
**GRaND@Vesta Browse Charts**  
 GRD-L1A-120421-120427\_130628

- Number of science records: 8545  
 0 missing science packets with 0 gaps.  
 Start/End: 2012-04-21T00:00:30 to 2012-04-27T22:08:30
- Number of SOH records: 17084  
 0 missing SOH packets with 0 gaps.  
 Start/End: 2012-04-21T00:00:13 to 2012-04-27T22:05:13
- 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.
- Number of states = 1
- Instrument settings for first state (STATE\_INDEX 0):

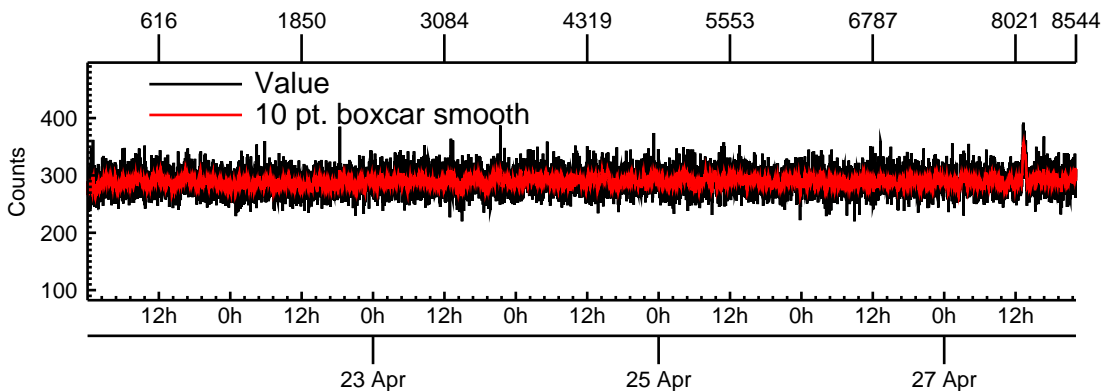
|                  |     |               |      |
|------------------|-----|---------------|------|
| TELREADOUT       | 70  | NEMG_TOT_EVTS | 3876 |
| TELSOH           | 35  | NEMG_CZT_EVTS | 3376 |
| MODE             | 1   | NEMN_TOT_EVTS | 2800 |
| HVPS1            | 1   | L_BGO_CW      | 7    |
| HVPS1_SET        | 185 | H_BGO_CW      | 25   |
| HVPS2            | 1   | L_BGO_ROI     | 1    |
| HVPS2_SET        | 170 | H_BGO_ROI     | 64   |
| HVPS3            | 1   | L_BLP_MY_CW   | 1    |
| HVPS3_SET        | 175 | H_BLP_MY_CW   | 64   |
| HVPS4            | 1   | L_BLP_MY_ROI  | 1    |
| HVPS4_SET        | 180 | H_BLP_MY_ROI  | 64   |
| HVPS5            | 1   | L_BLP_PY_CW   | 1    |
| HVPS5_SET        | 125 | 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    |
| P12_LVPS         | 1   | H_BLP_MZ_CW   | 64   |
| HEATERS_ENABLE   | 0   | L_BLP_MZ_ROI  | 1    |
| CZT_PM5_LVPS     | 1   | H_BLP_MZ_ROI  | 64   |
| CZT_ENABLES      |     | L_BLP_PZ_CW   | 1    |
| 0010001000000010 |     | H_BLP_PZ_CW   | 64   |
|                  |     | L_BLP_PZ_ROI  | 1    |
|                  |     | H_BLP_PZ_ROI  | 64   |



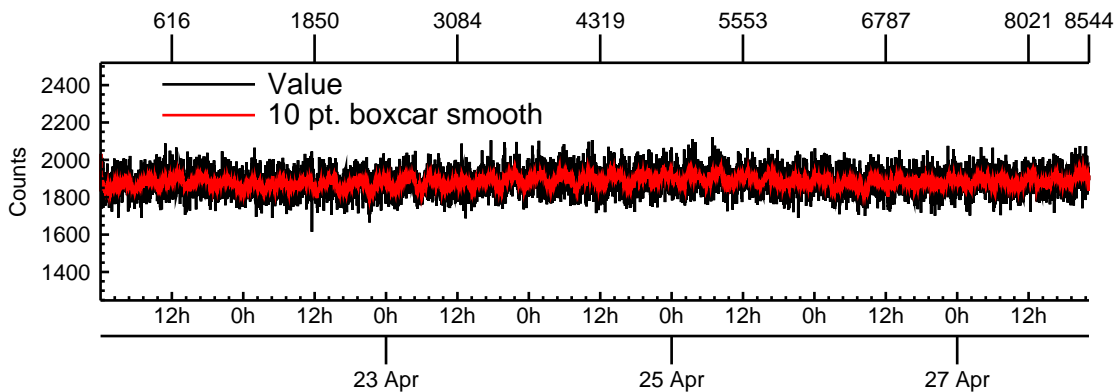
-Y BLP overload events



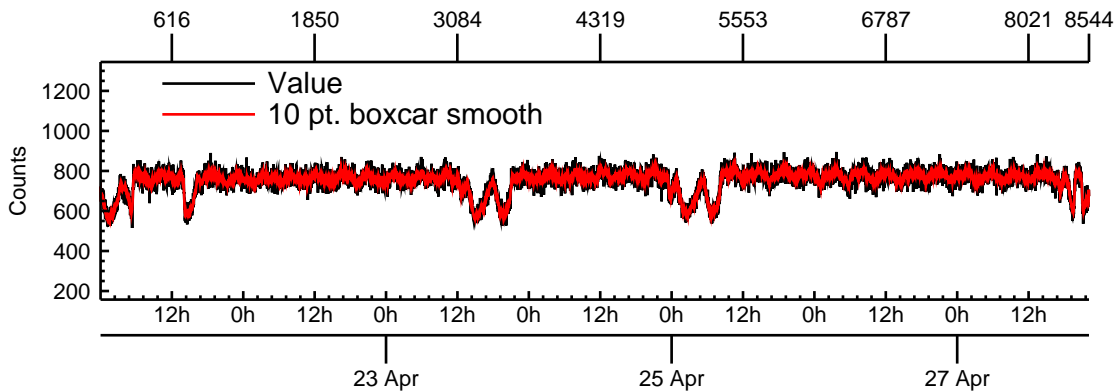
+Y BLP overload events



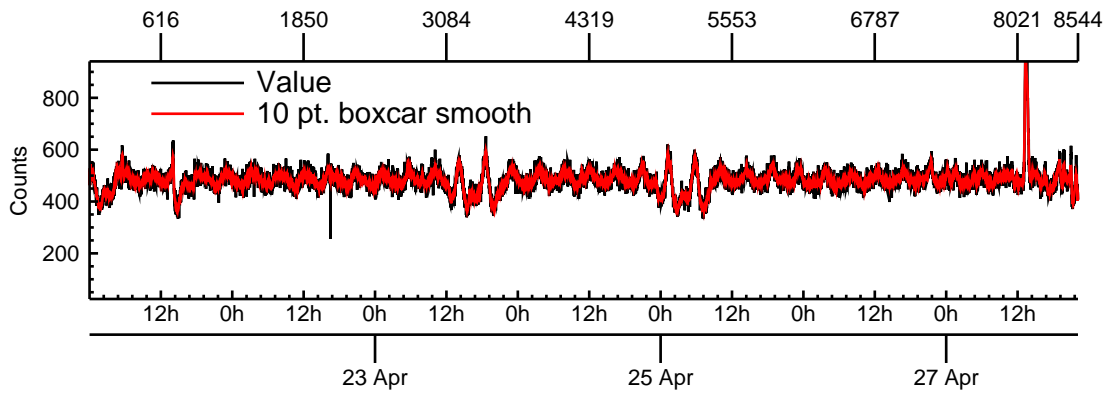
-Z phoswich overload events



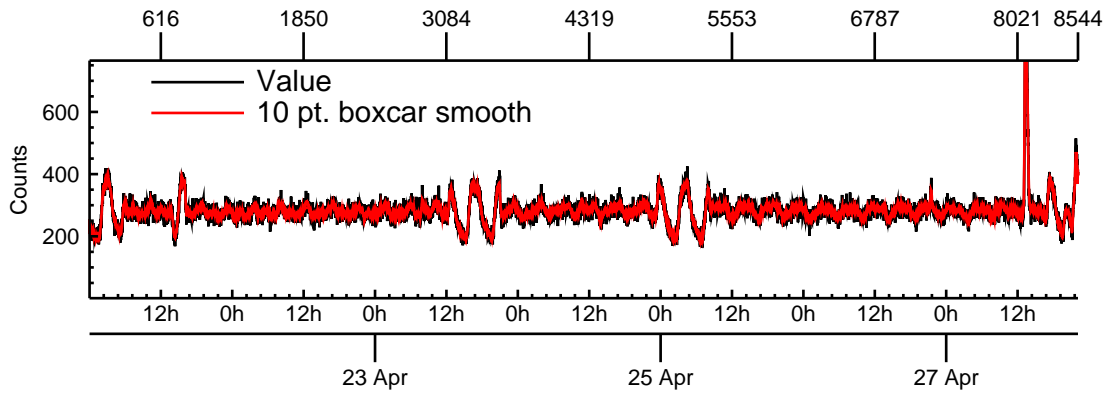
+Z phoswich CAT4 events



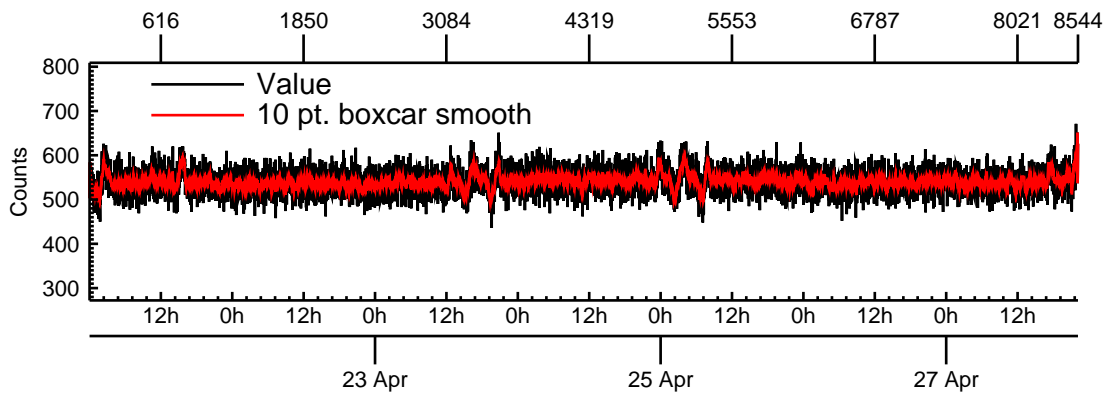
### -Y BLP CAT4 events



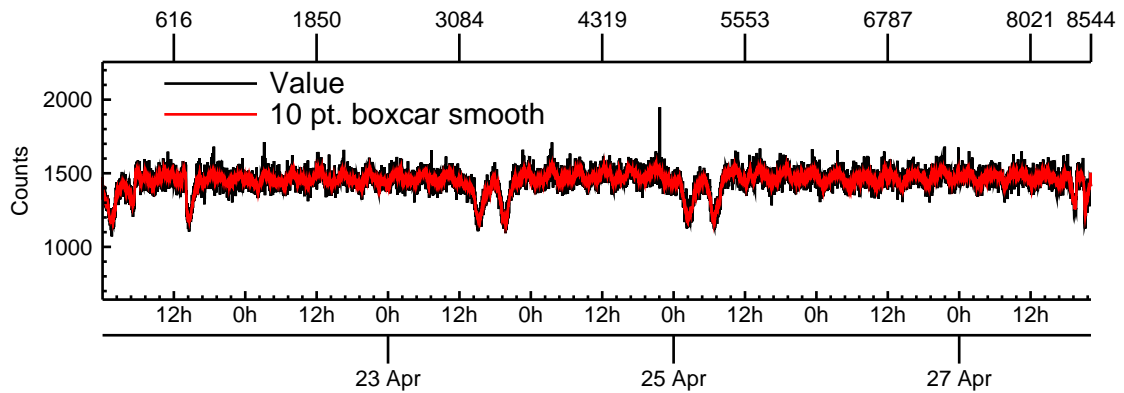
### +Y BLP CAT4 events



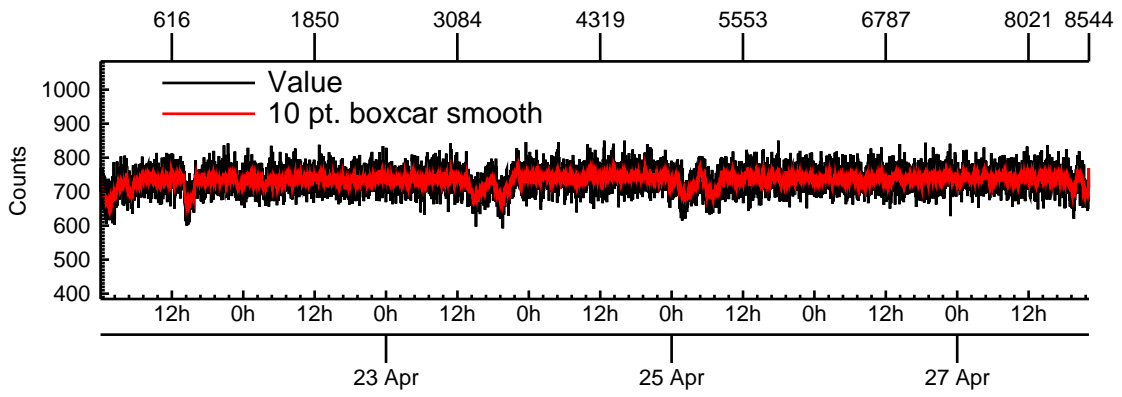
### -Z phoswich CAT4 events



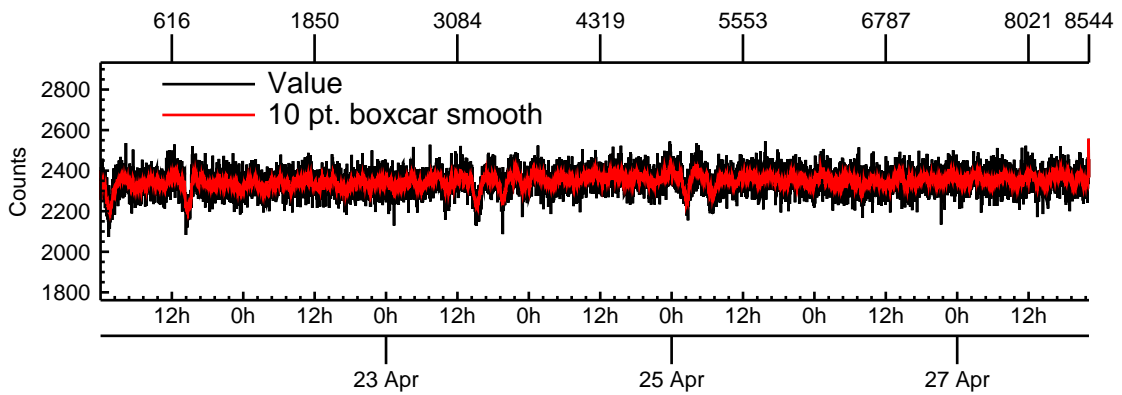
### Early second interaction events



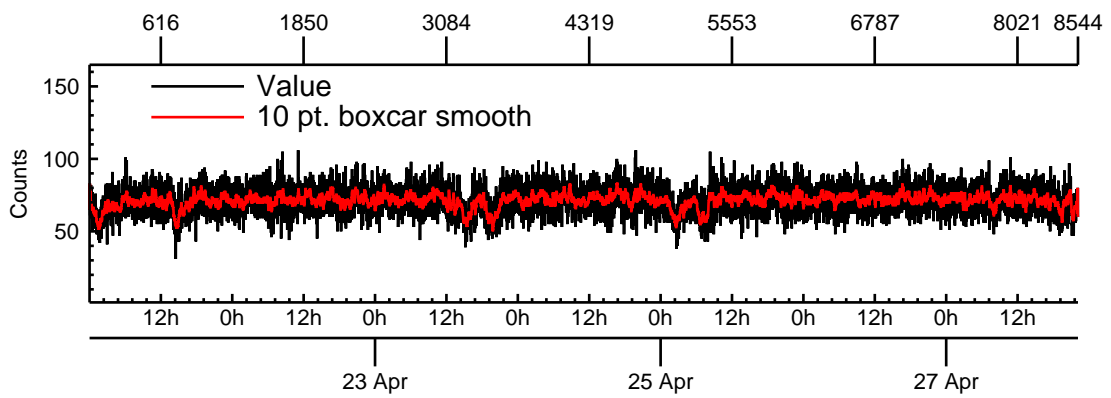
### Multiple-crystal CZT events



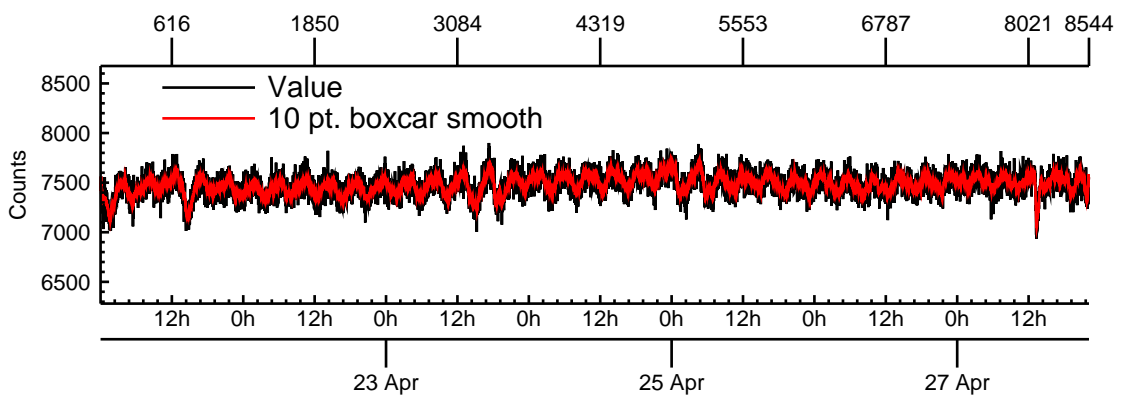
### Valid CZT events (CAT10)



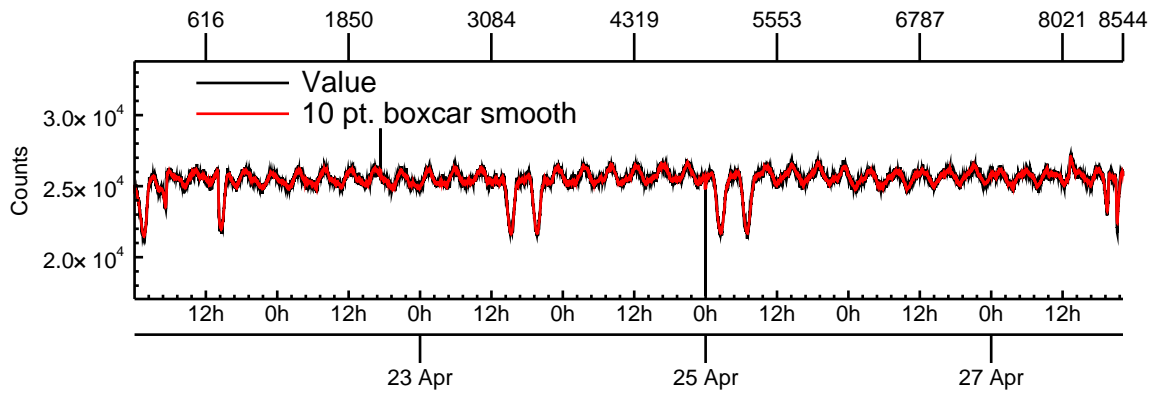
### Coincidence BGO and CZT events (CAT7)



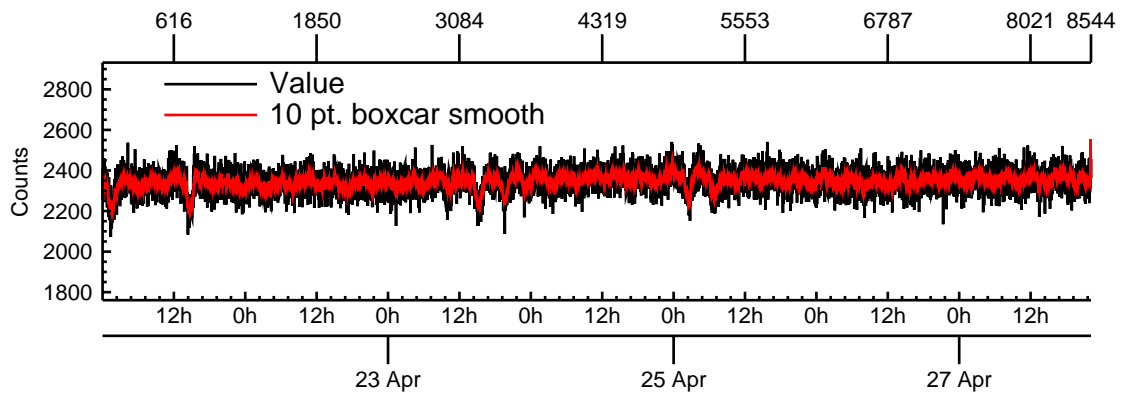
### Coincidence of three or more sensor elements



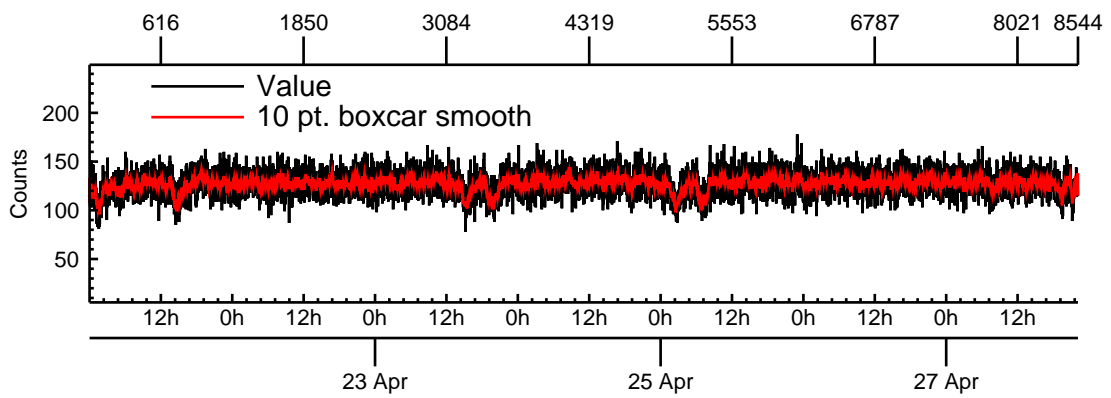
### Total events processed by GRaND



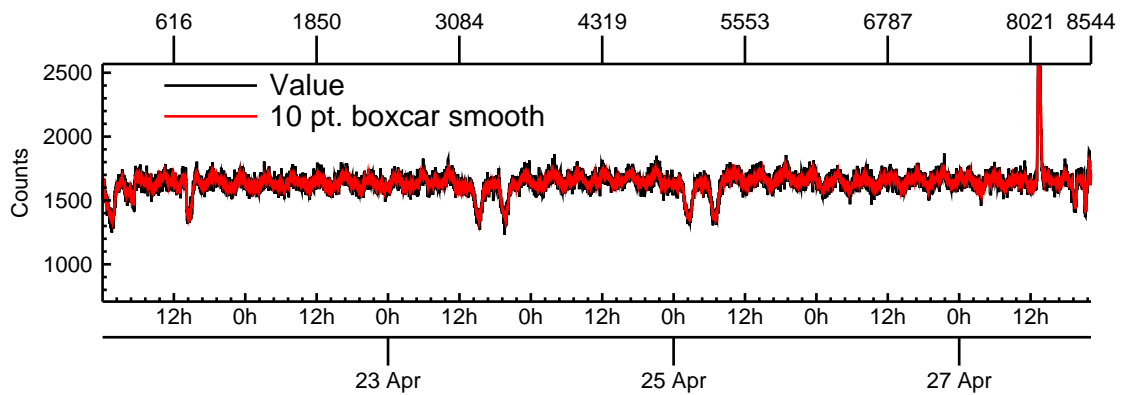
### Number of single CZT events (CAT10) in the gamma ray event buffer

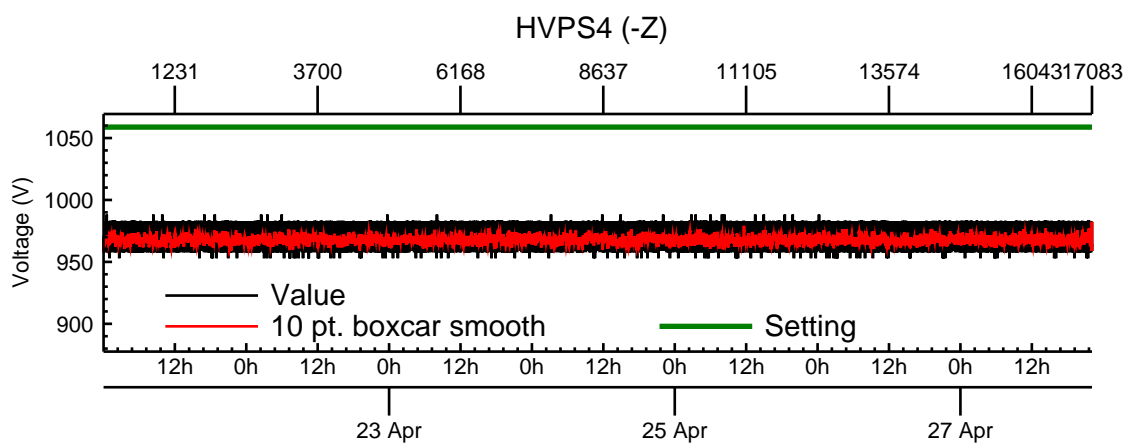
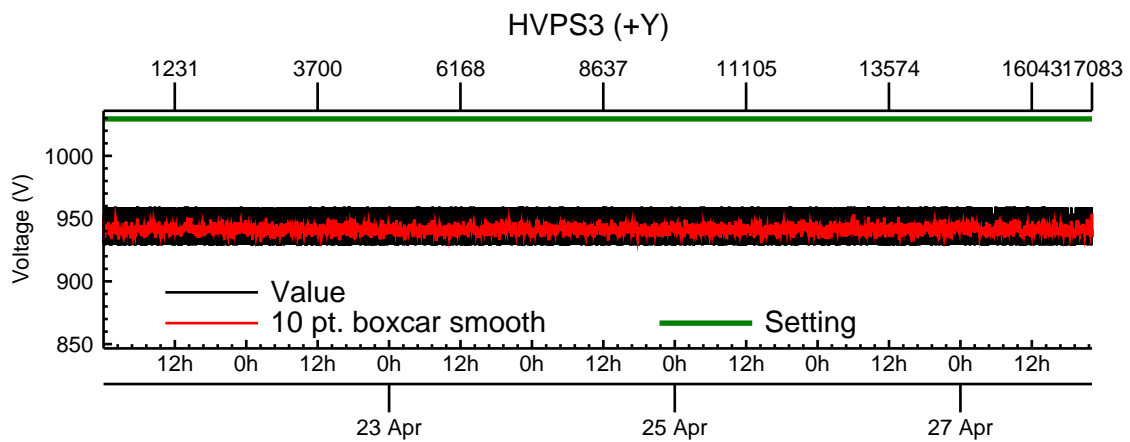
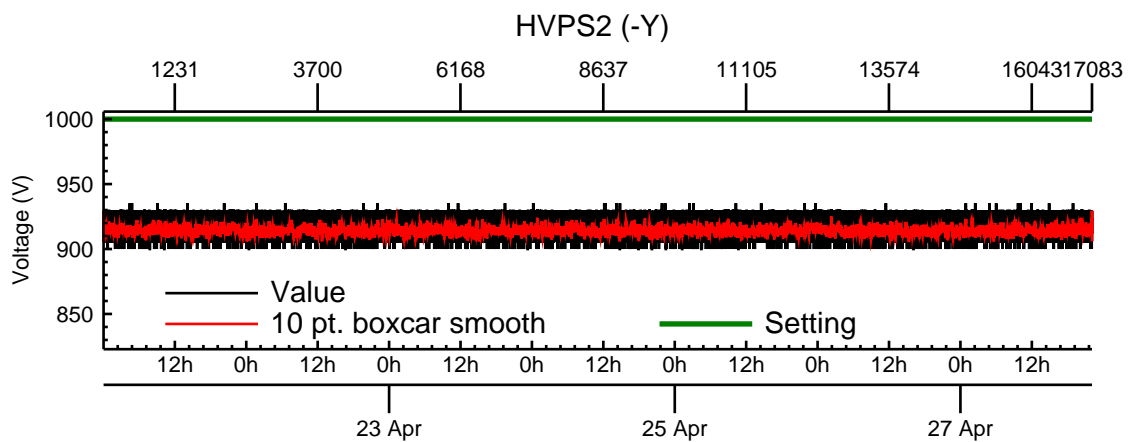
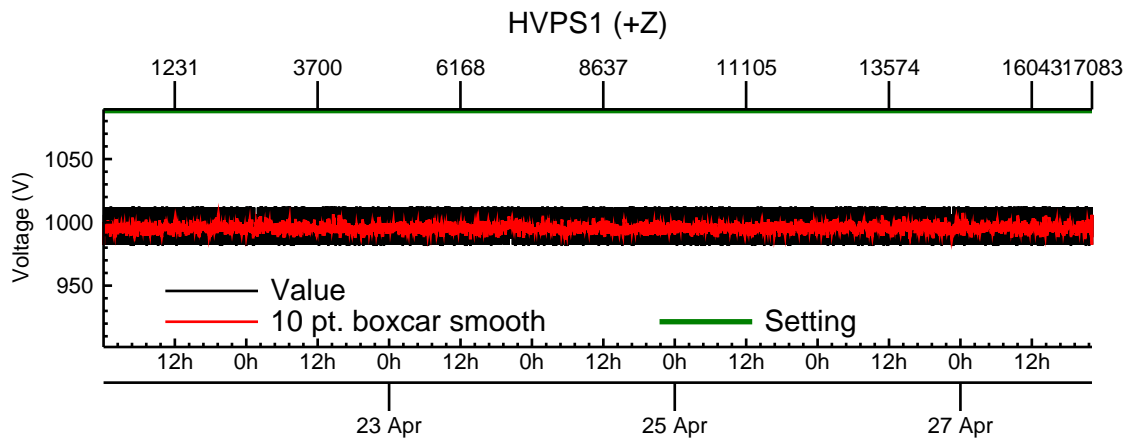


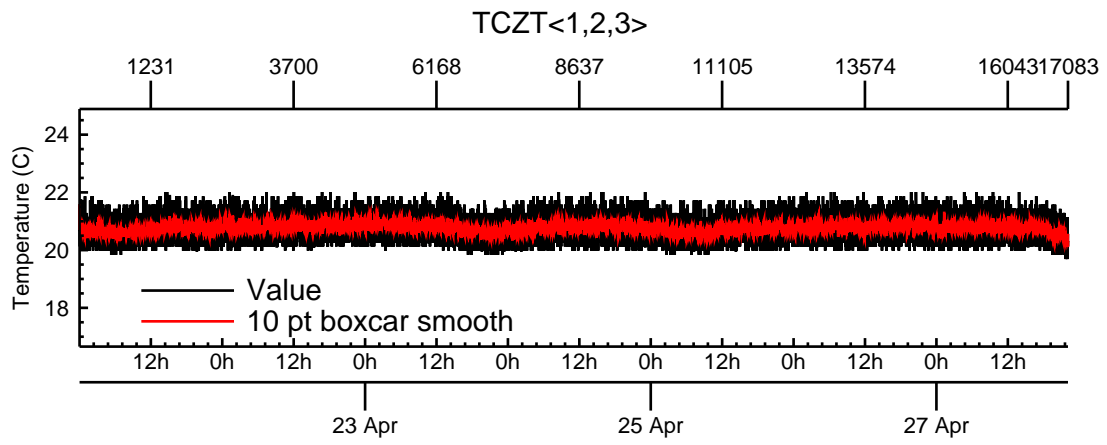
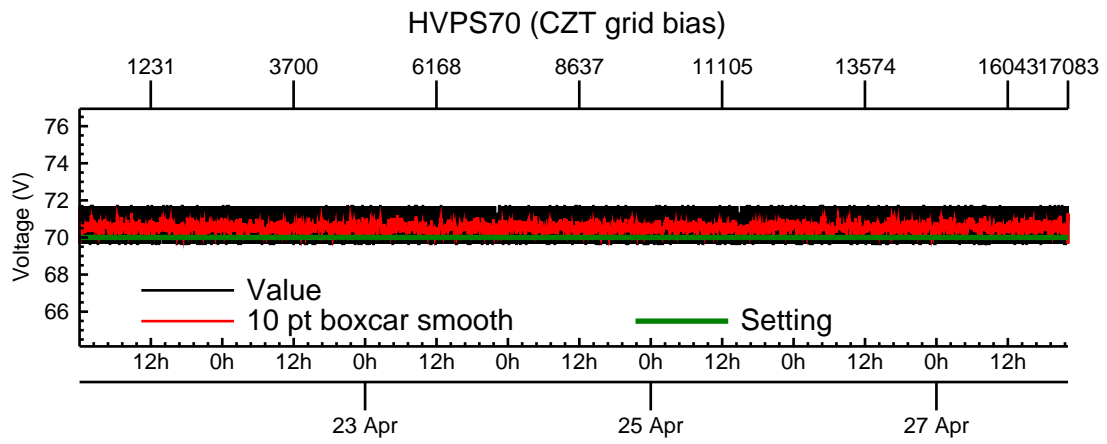
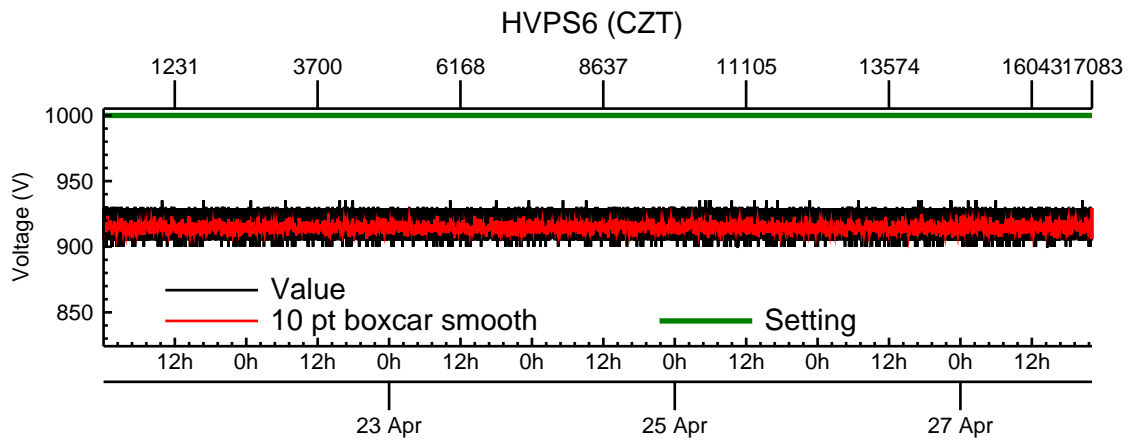
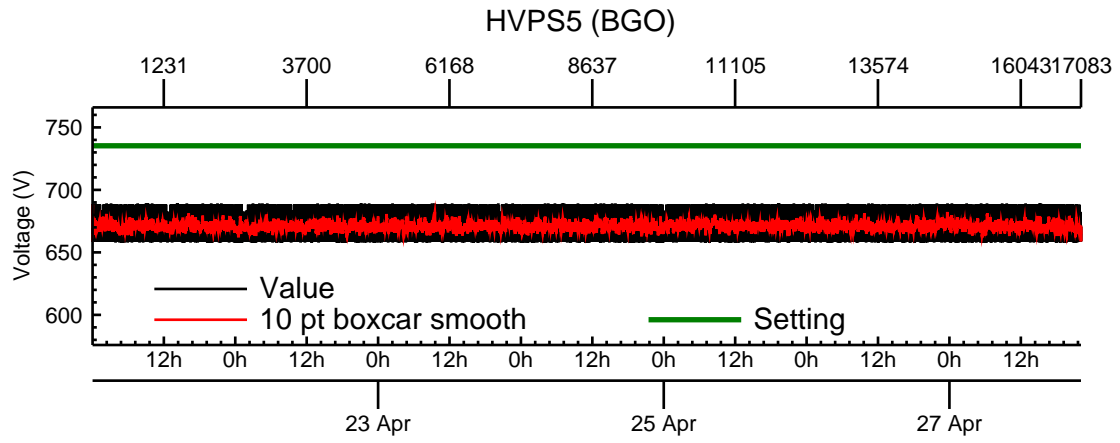
### Number of BGO-CZT events (CAT7) in the gamma ray event buffer



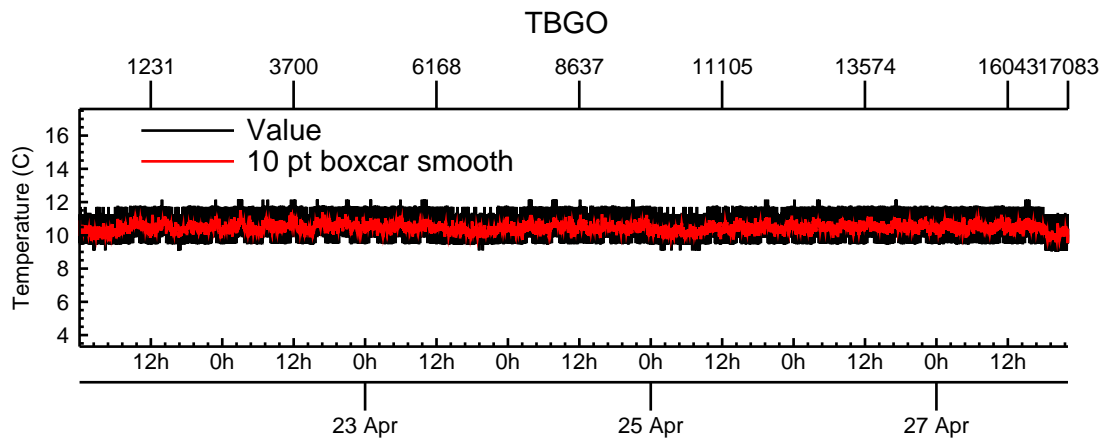
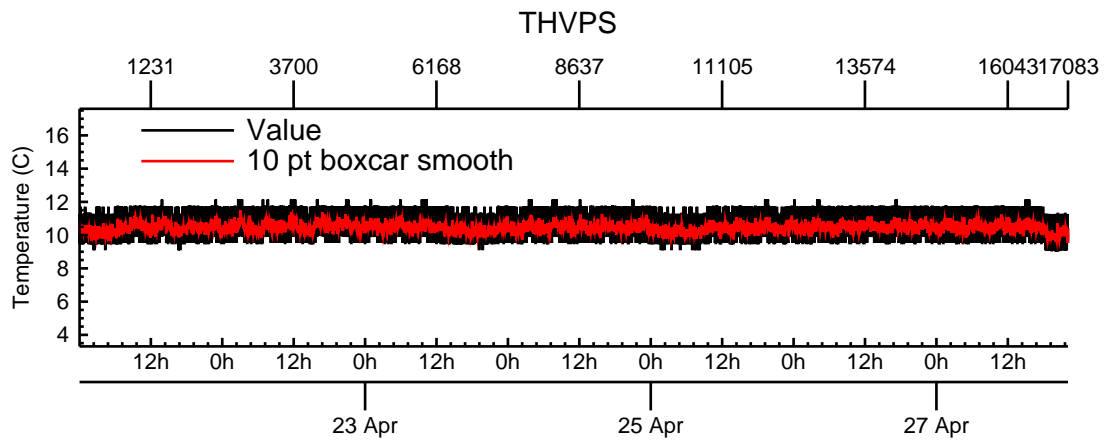
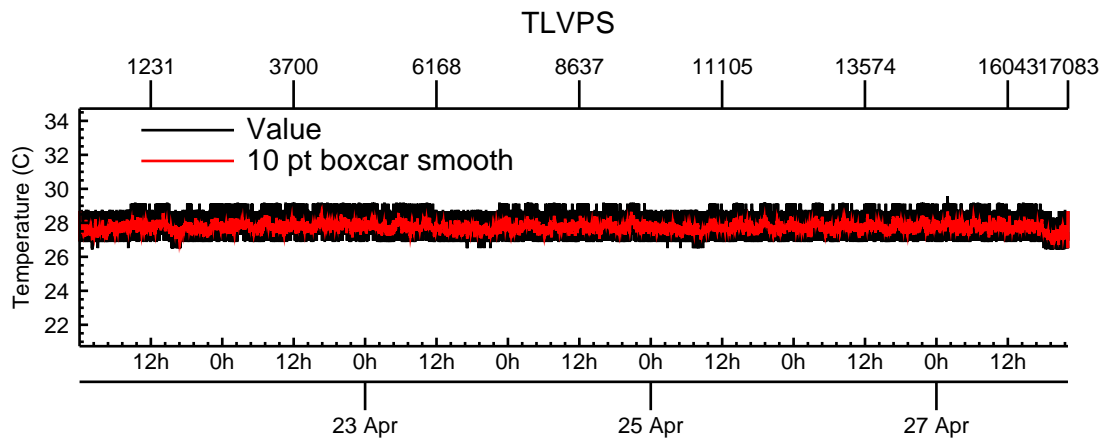
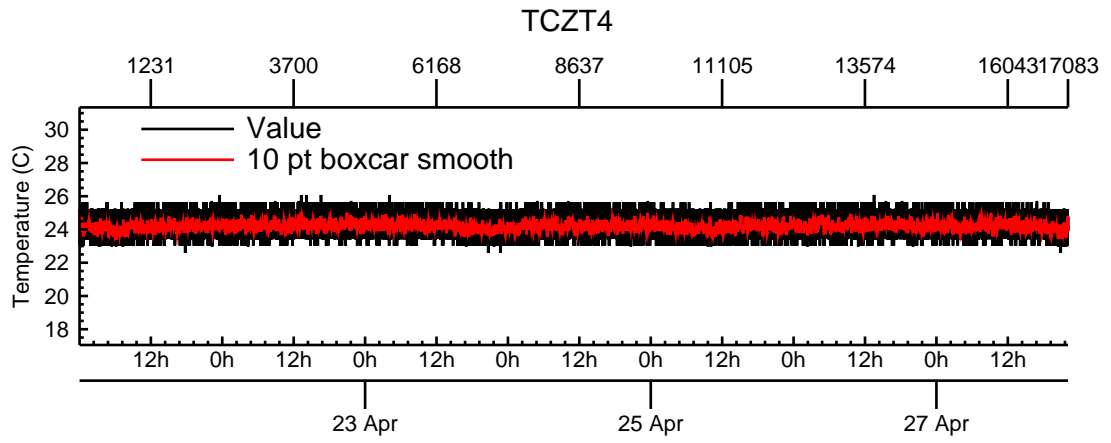
### Number of events (CAT4) in the neutron event buffer

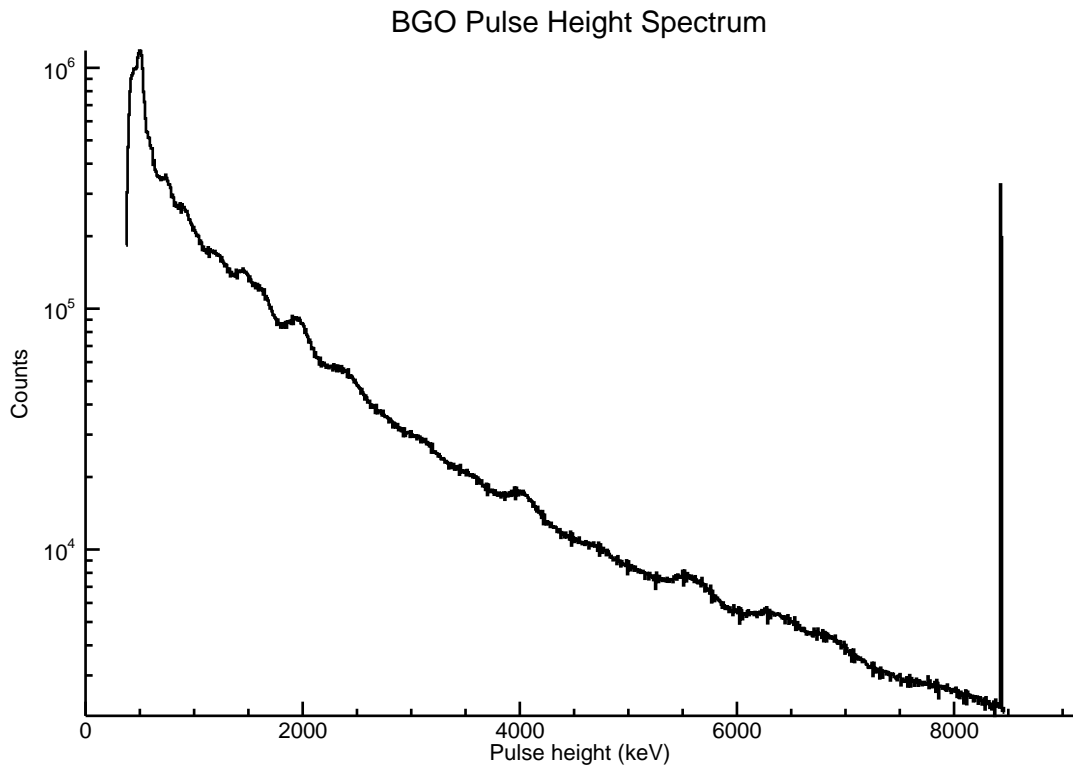
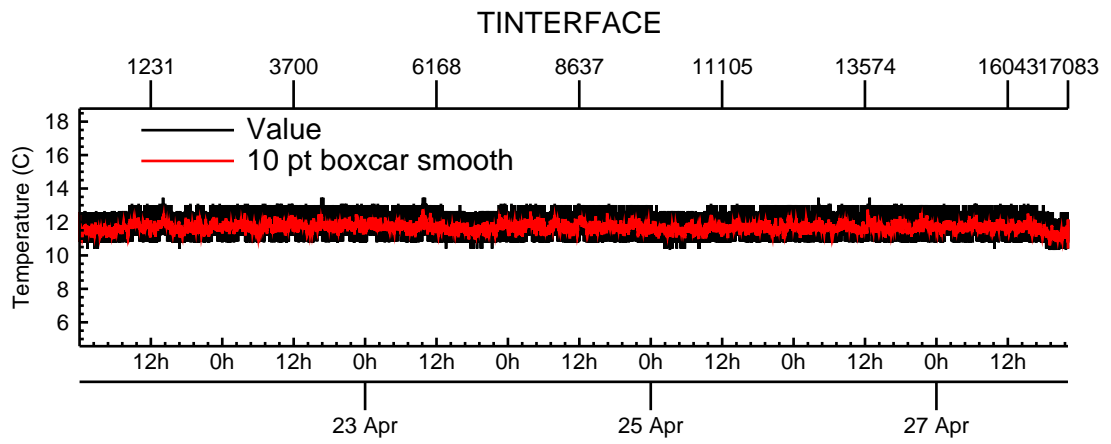
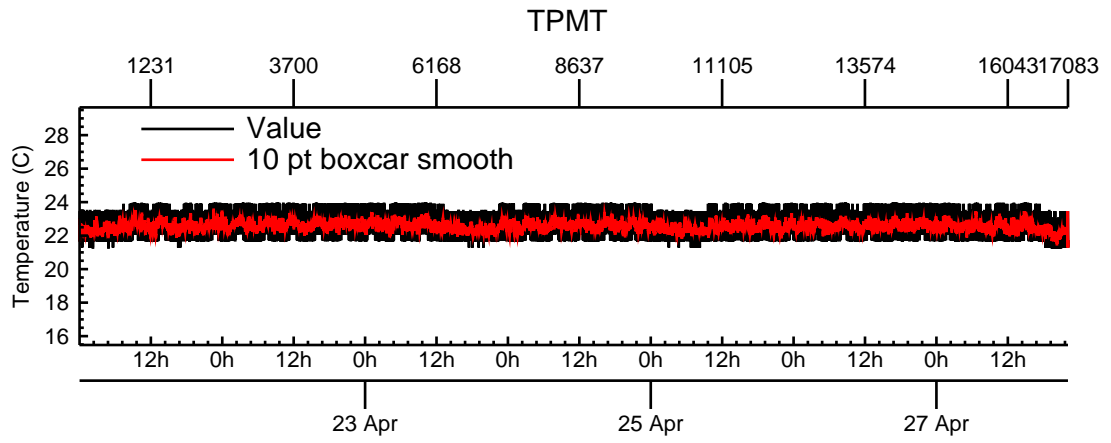




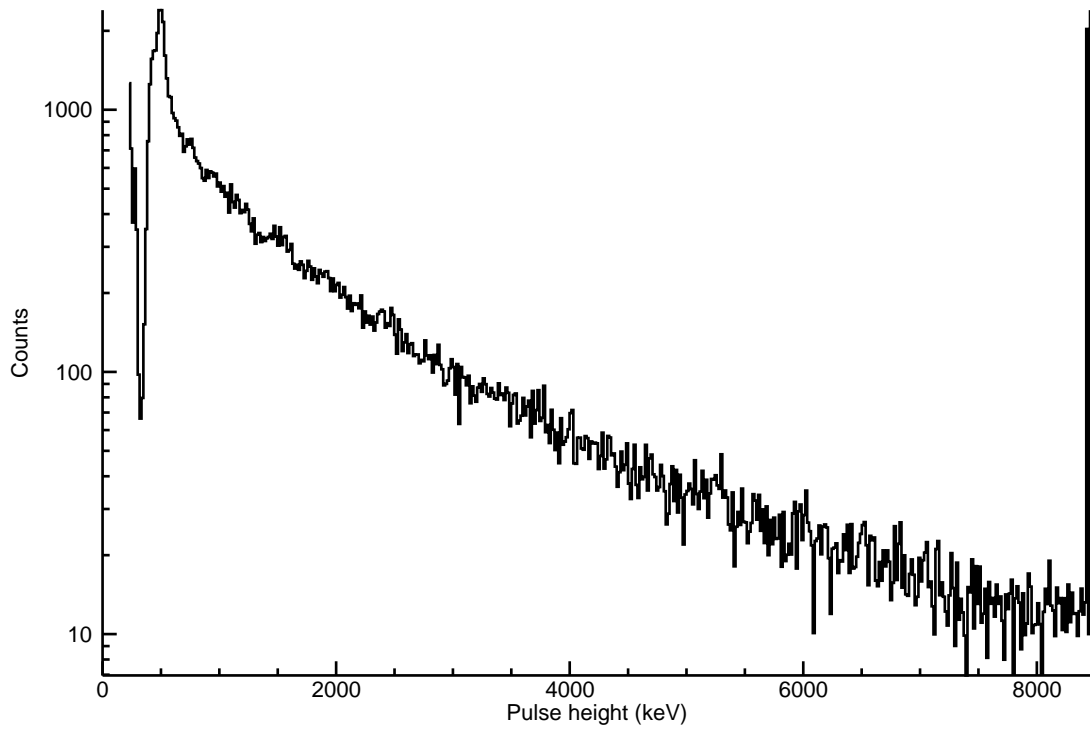




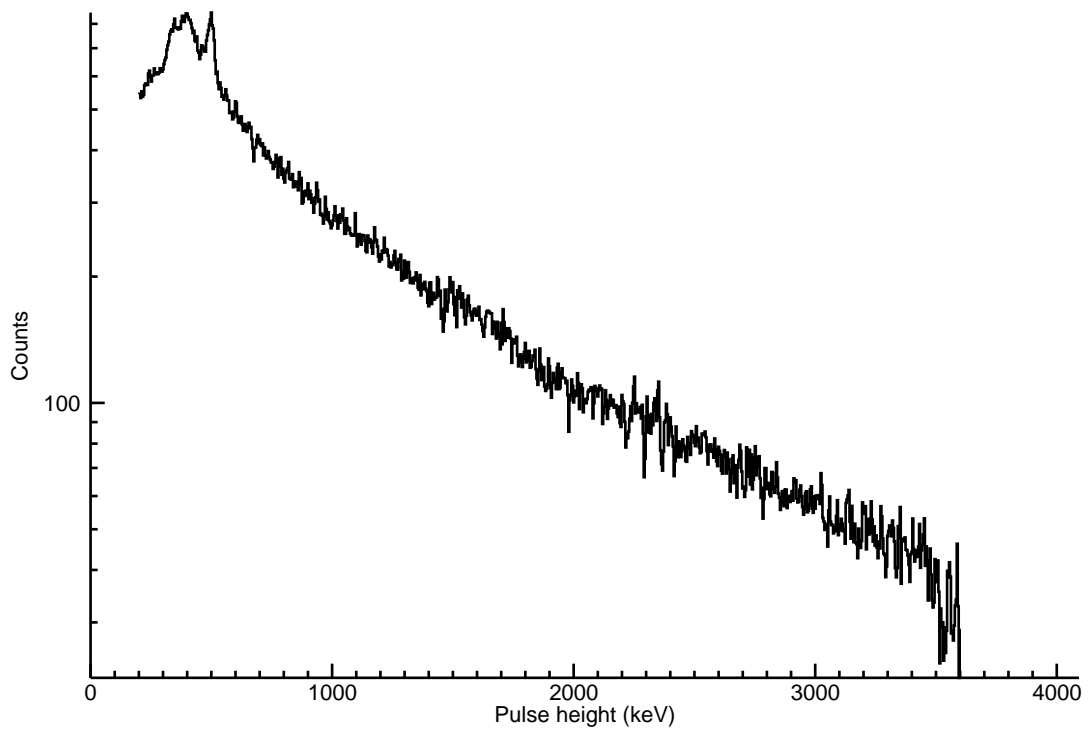




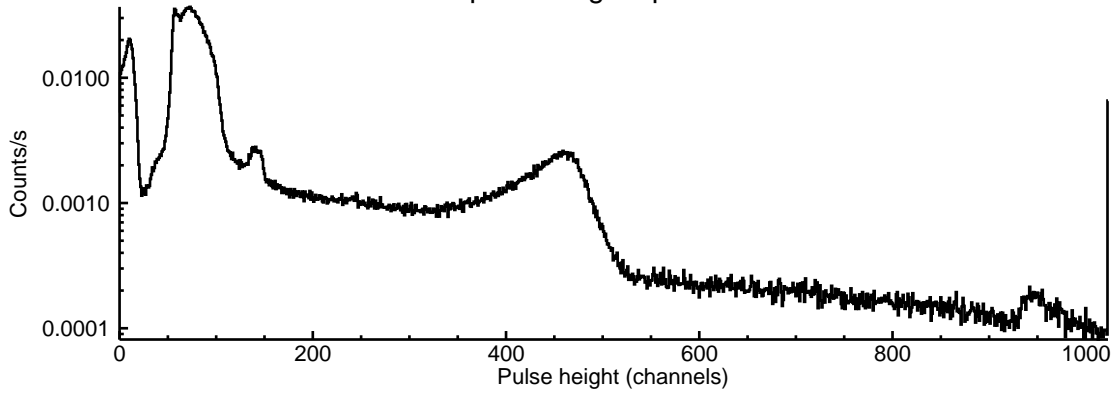
BGO-CZT pair spectrum: BGO



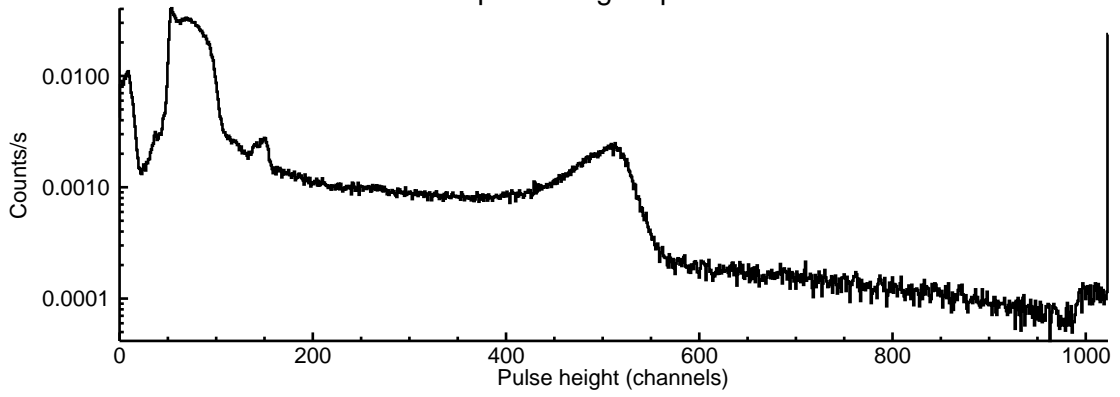
BGO-CZT pair spectrum: CZT



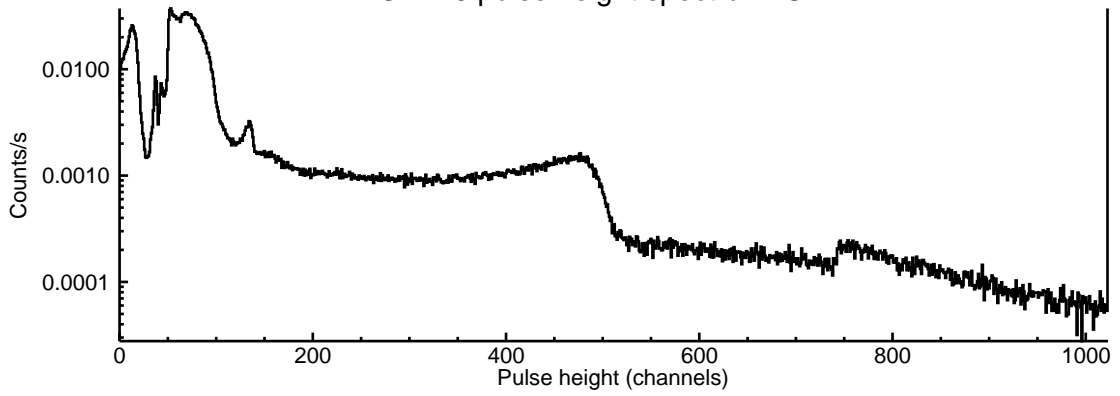
CAT10 pulse height spectrum: CZT11



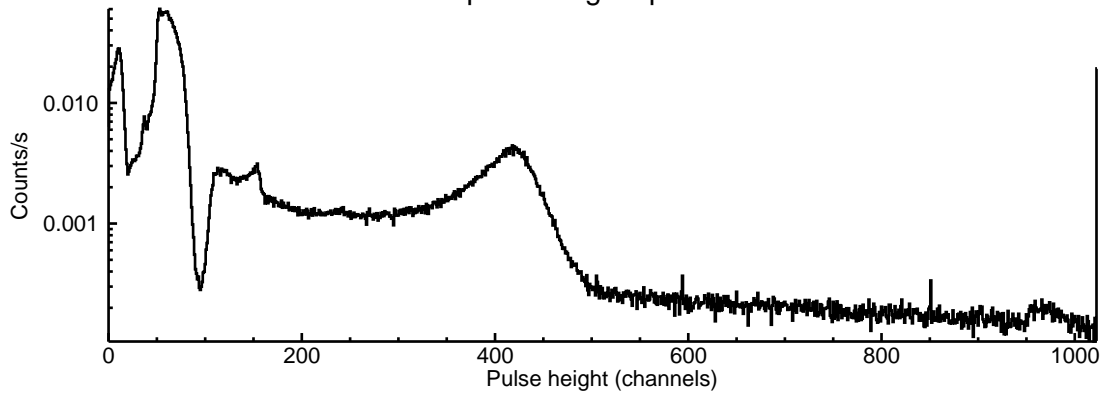
CAT10 pulse height spectrum: CZT3



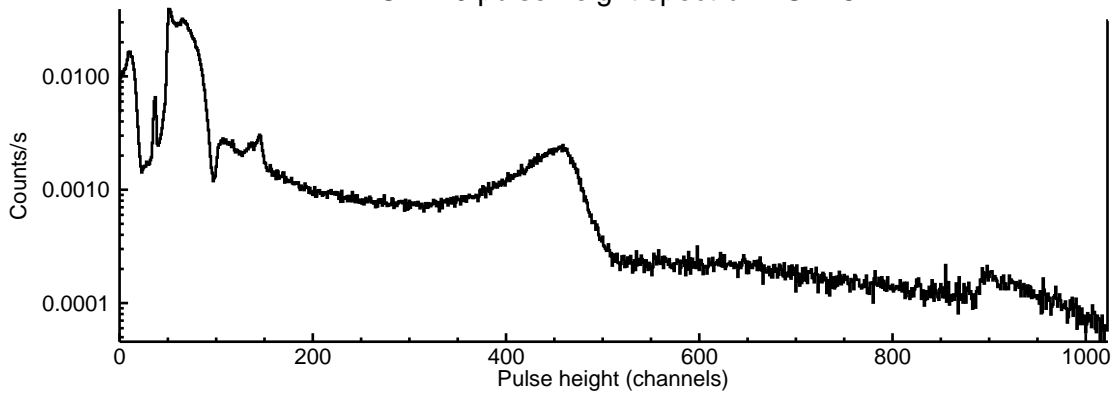
CAT10 pulse height spectrum: CZT1



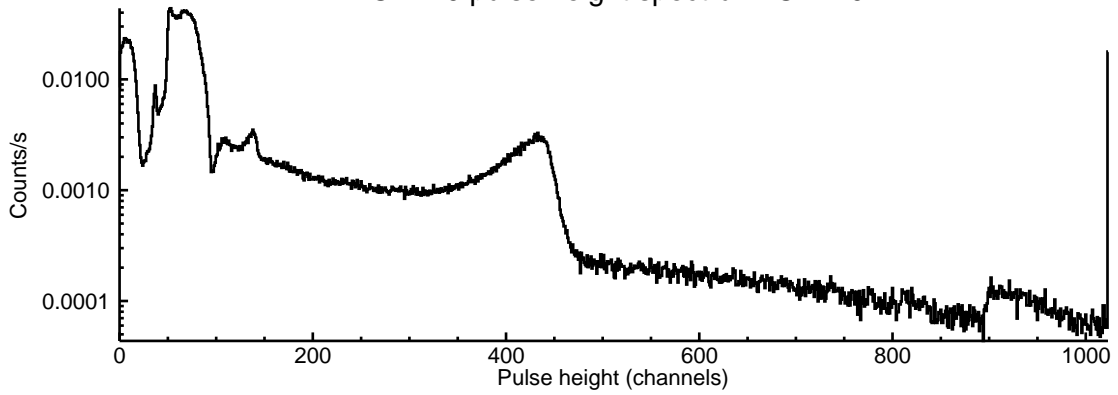
CAT10 pulse height spectrum: CZT2



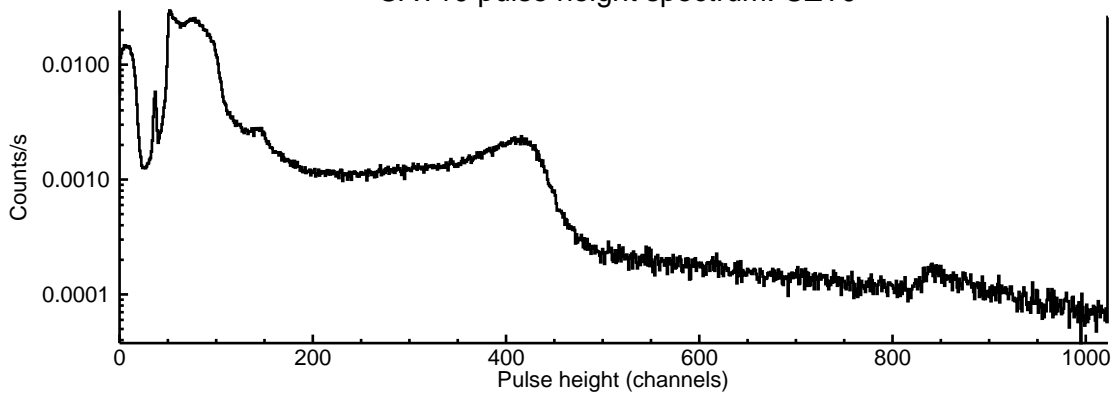
CAT10 pulse height spectrum: CZT8



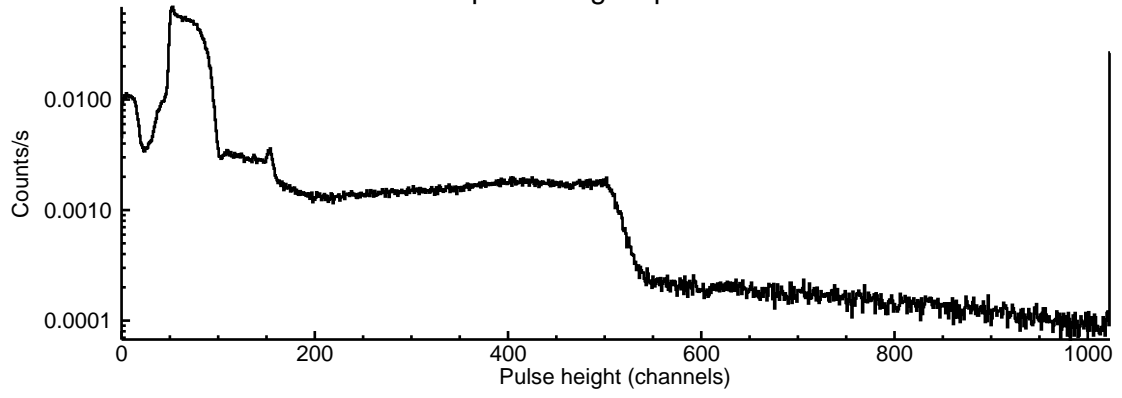
CAT10 pulse height spectrum: CZT10



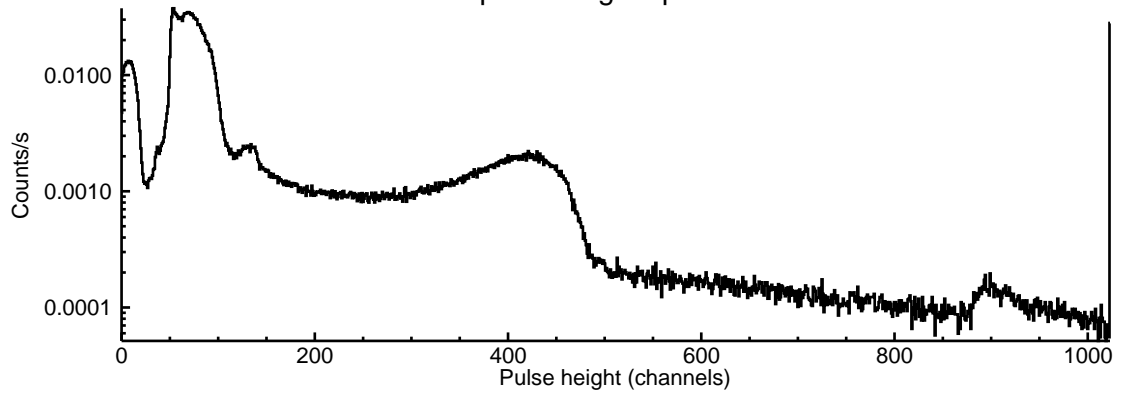
CAT10 pulse height spectrum: CZT0



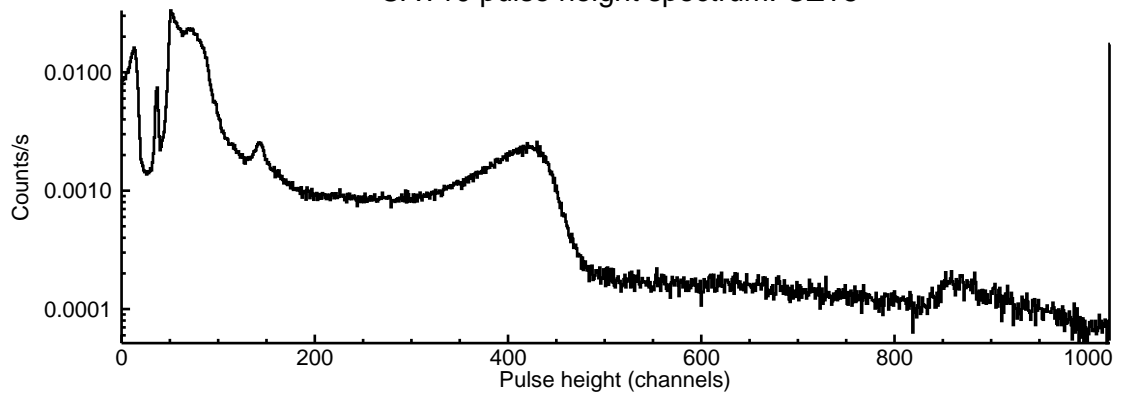
CAT10 pulse height spectrum: CZT15

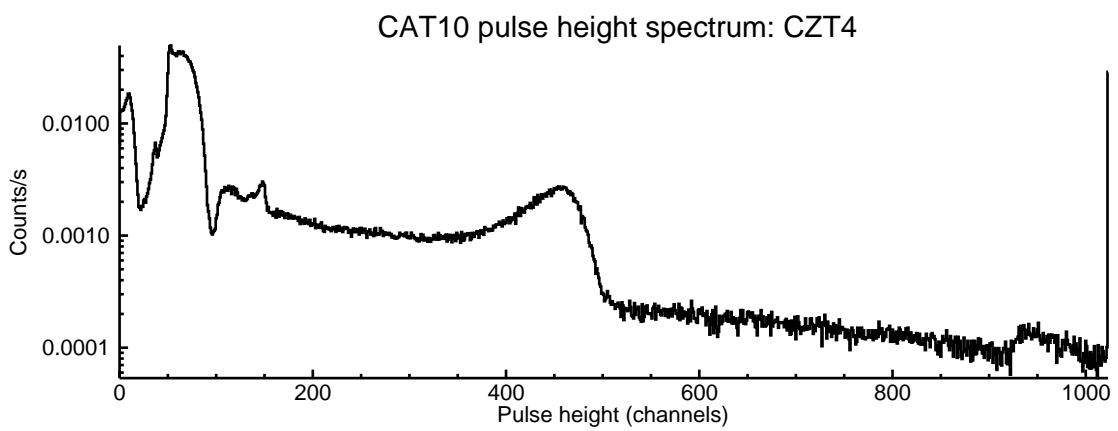
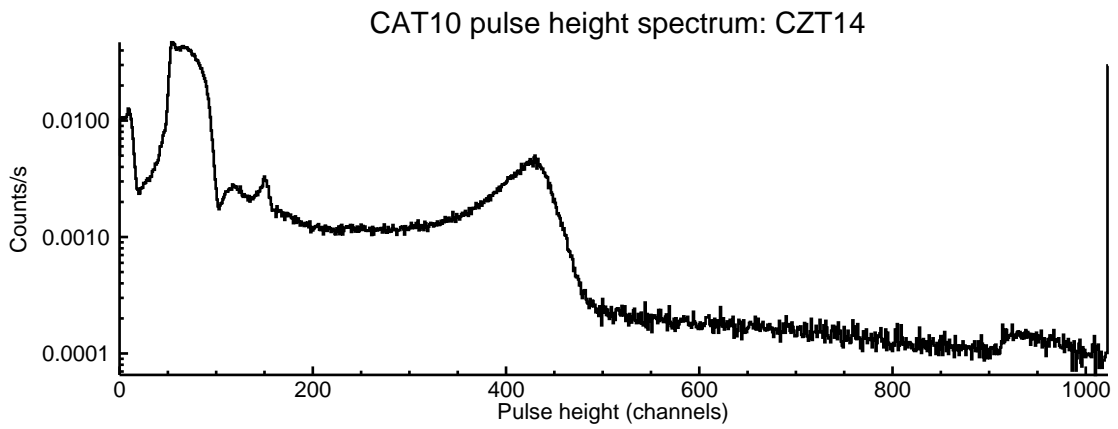
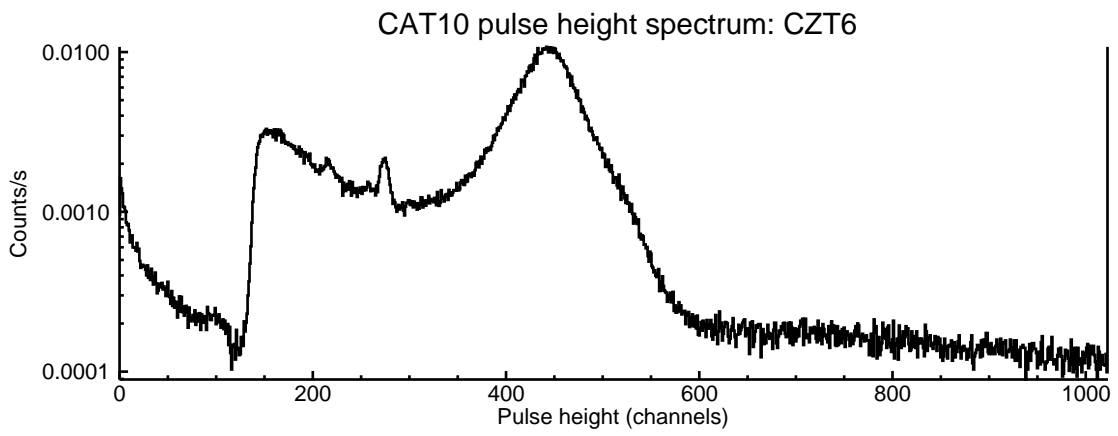


CAT10 pulse height spectrum: CZT7

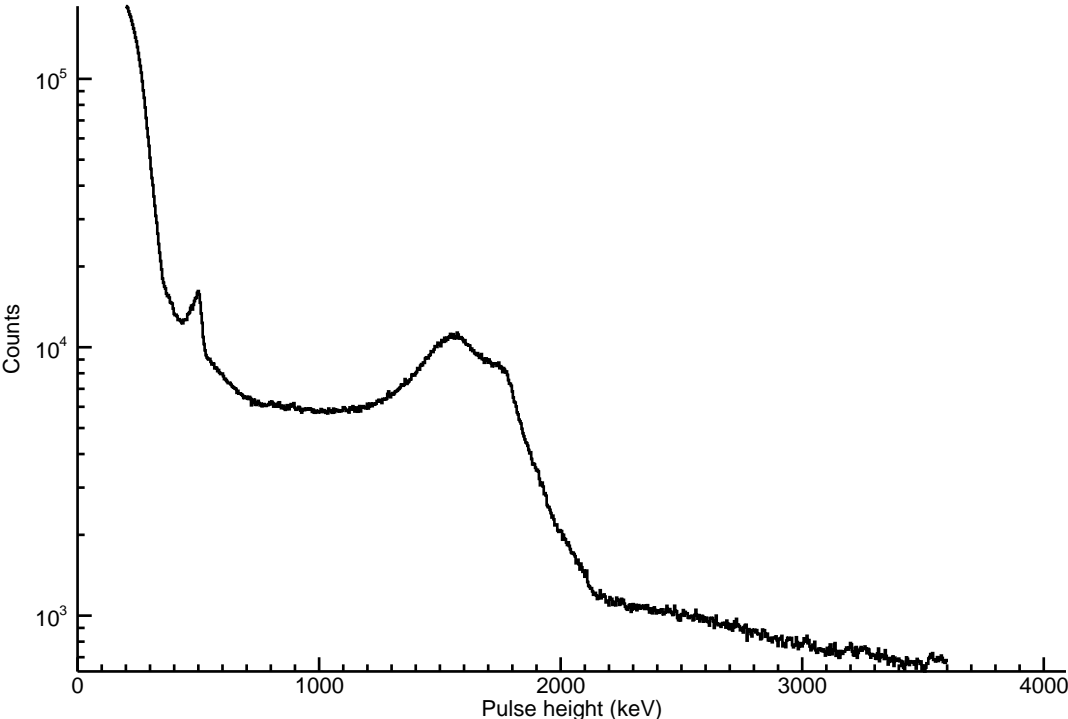


CAT10 pulse height spectrum: CZT5

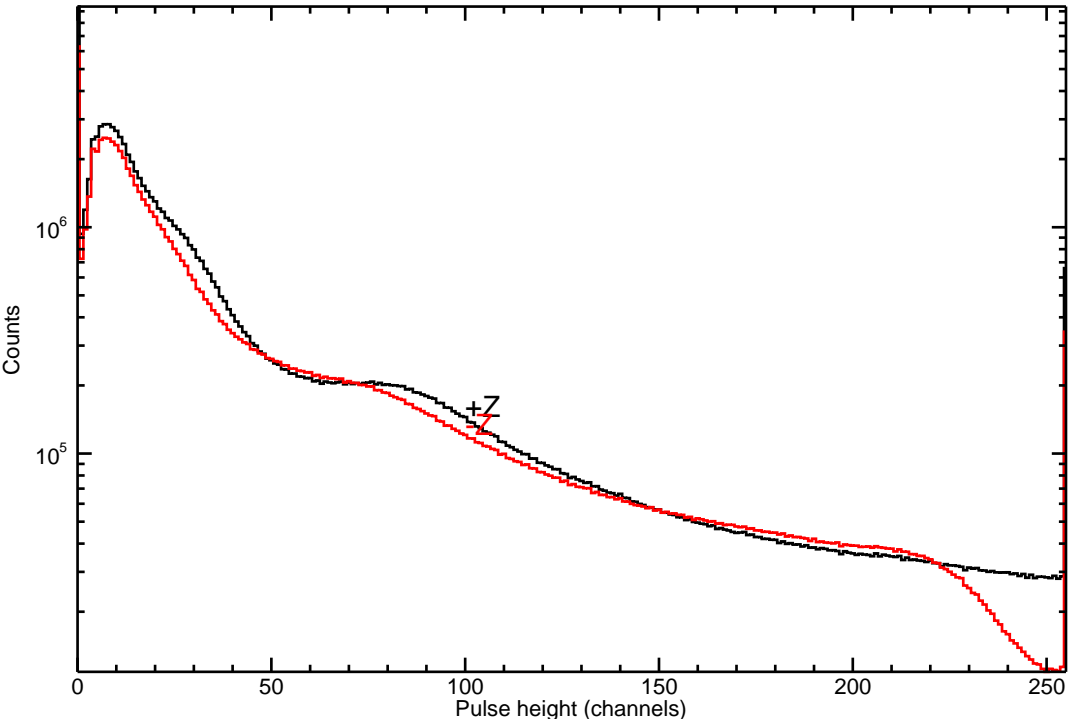




CAT10 CZT composite

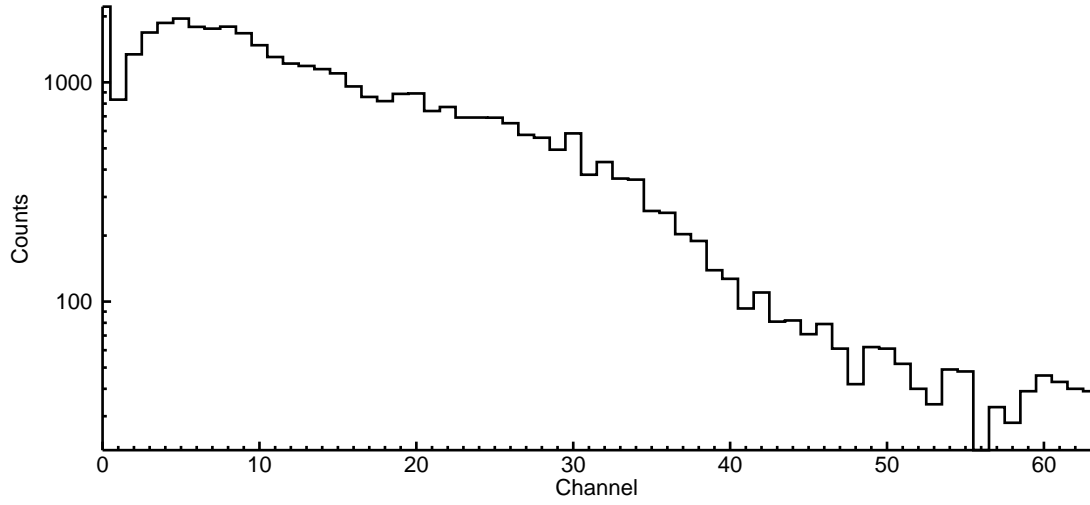


CAT1 histograms

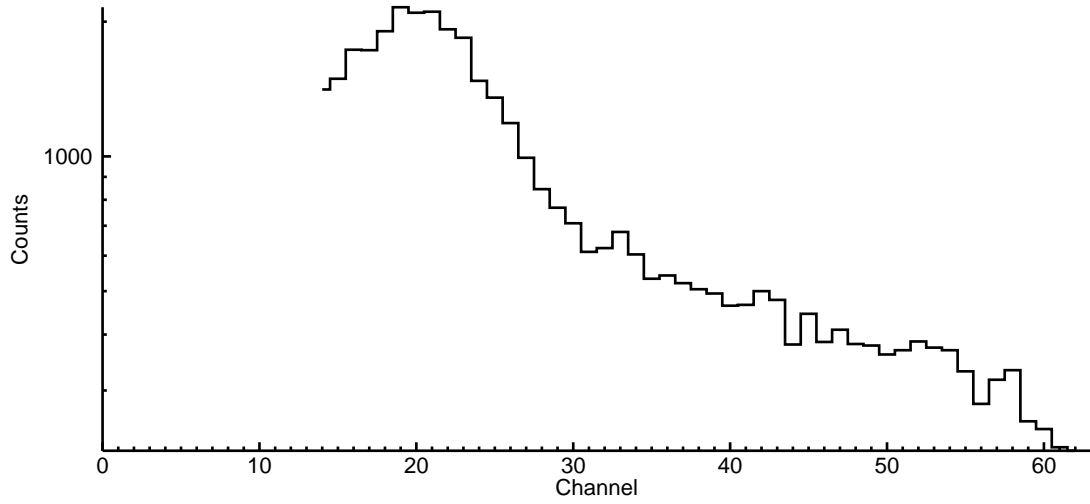




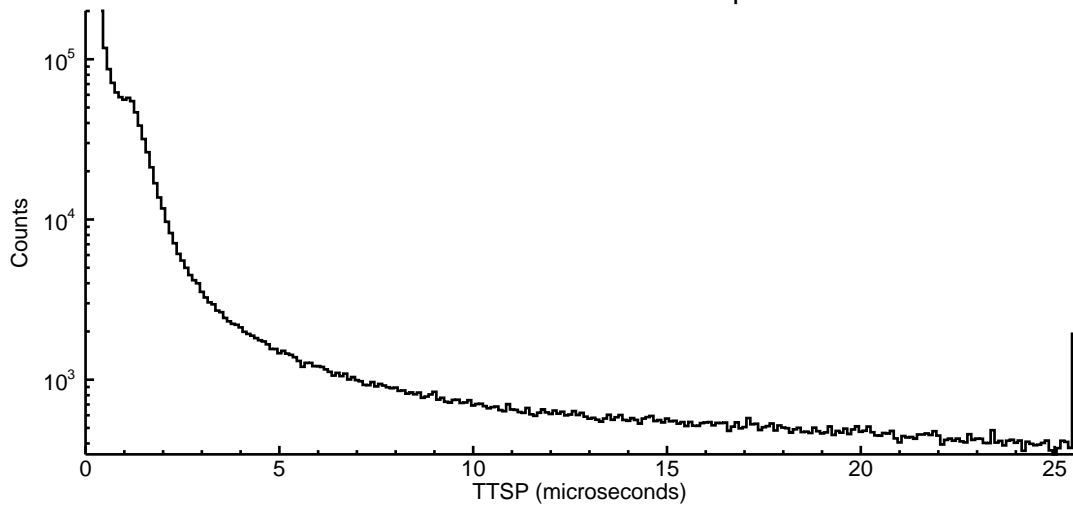
+Z BLP CAT4 first pulse



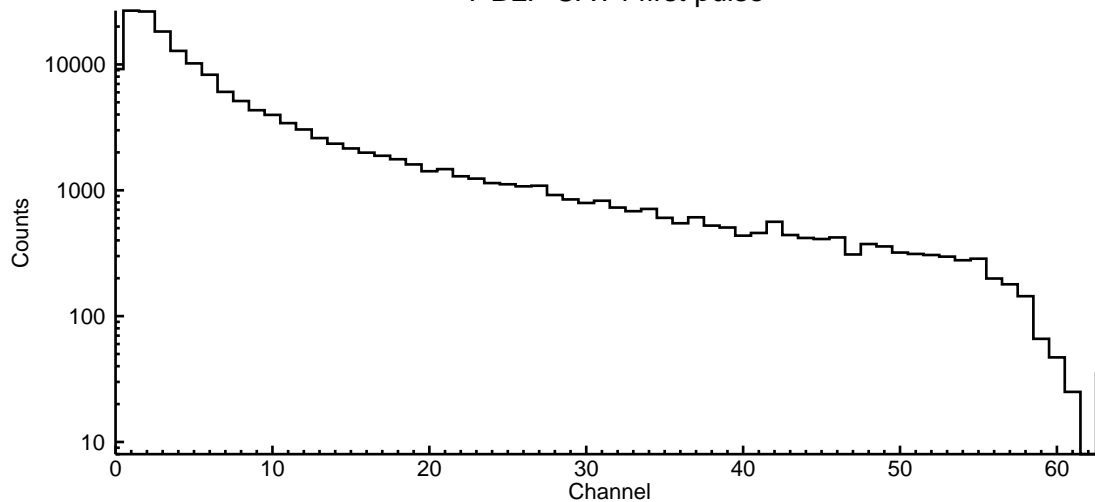
+Z BLP CAT4 second pulse



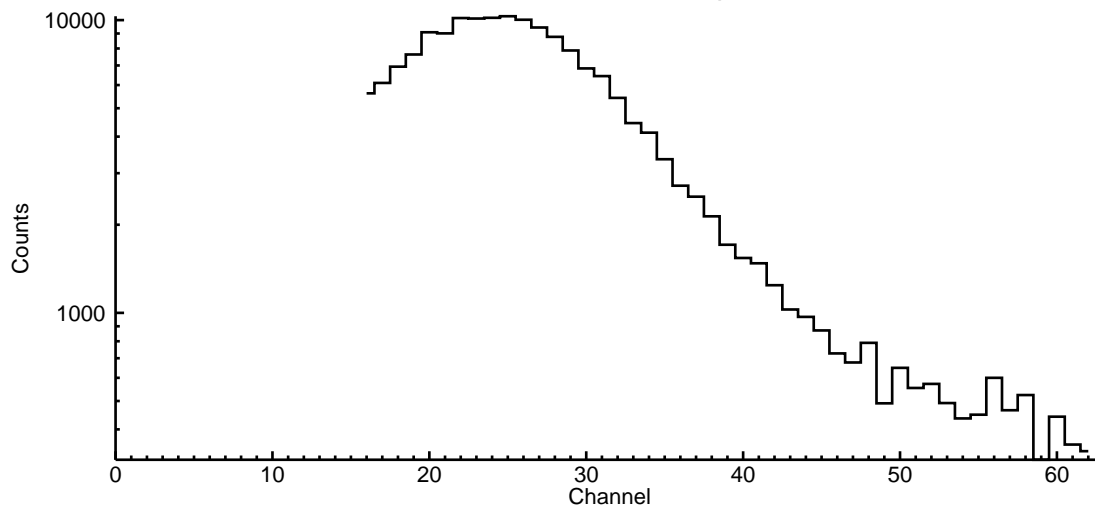
+Z BLP CAT4 time to second pulse



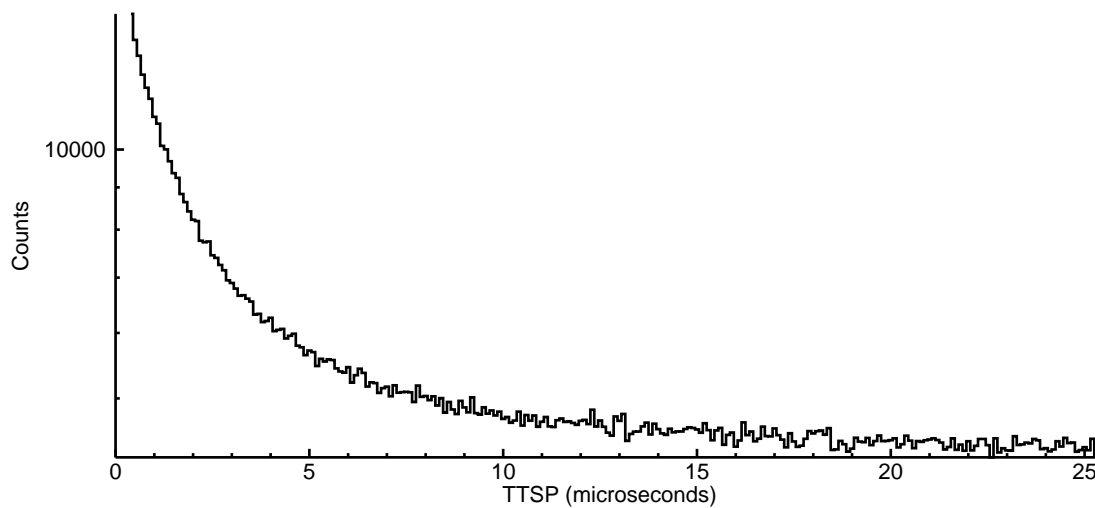
-Y BLP CAT4 first pulse

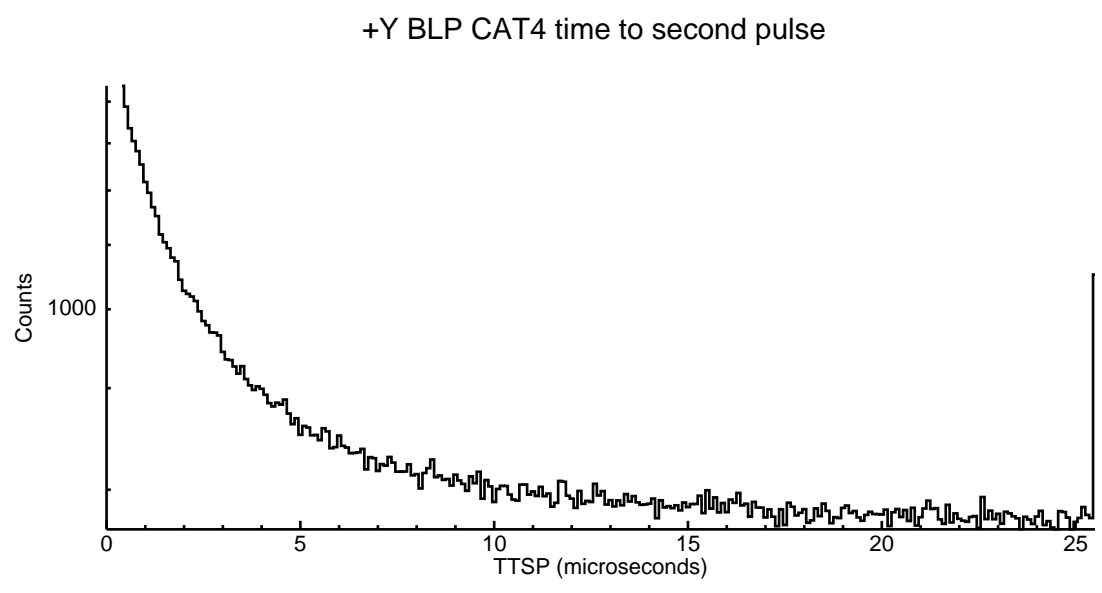
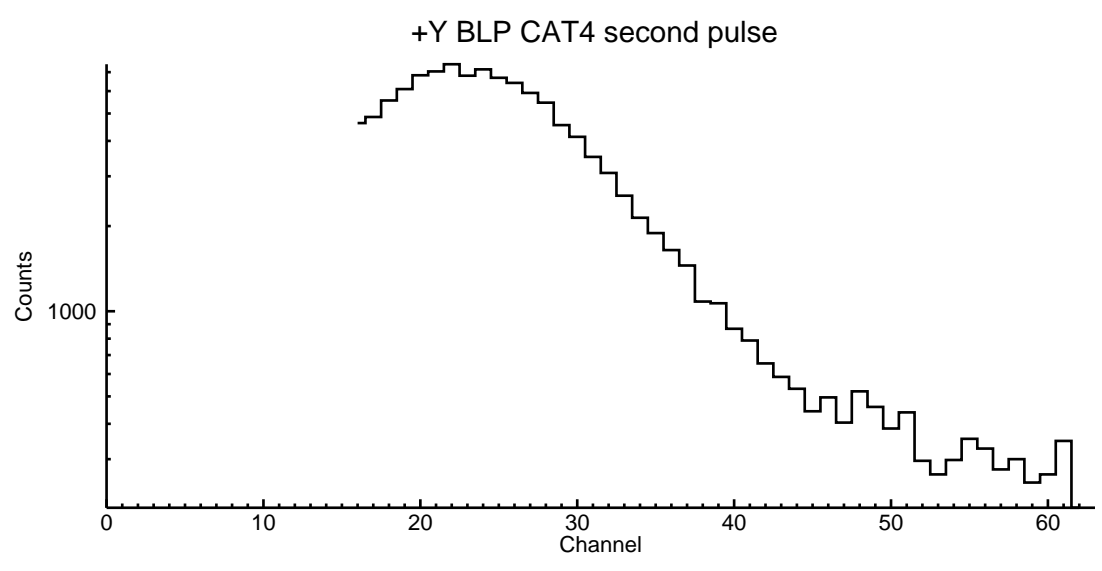
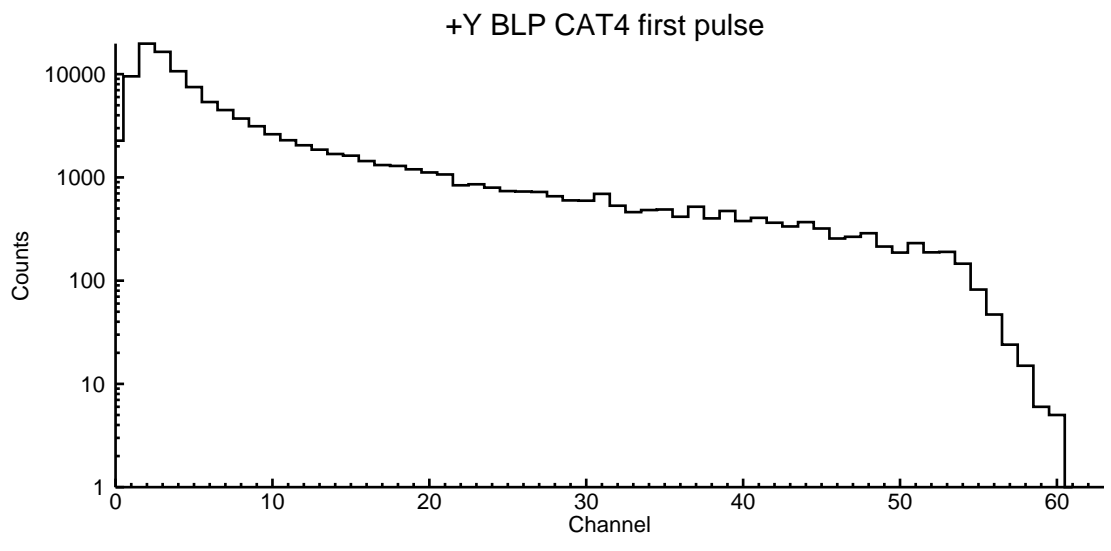


-Y BLP CAT4 second pulse

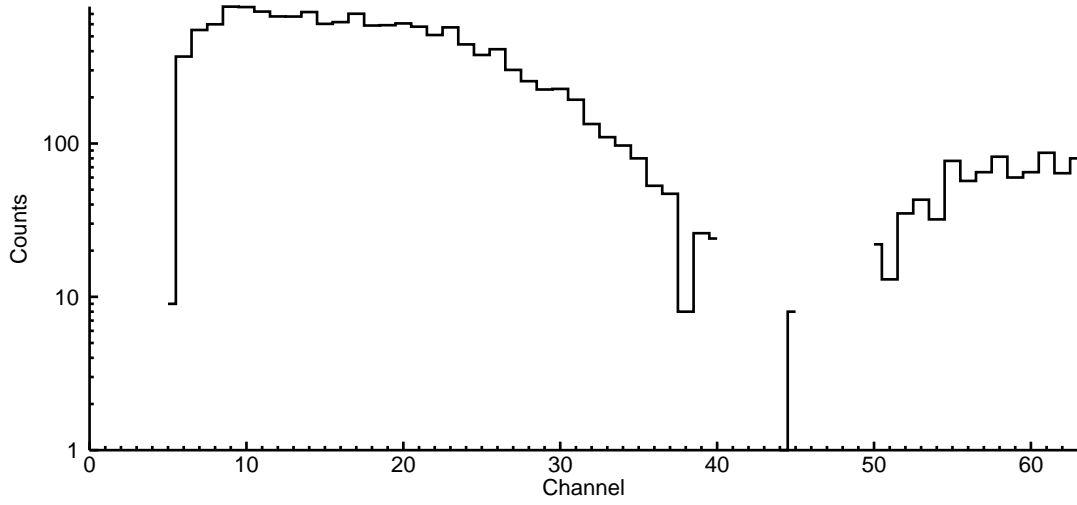


-Y BLP CAT4 time to second pulse

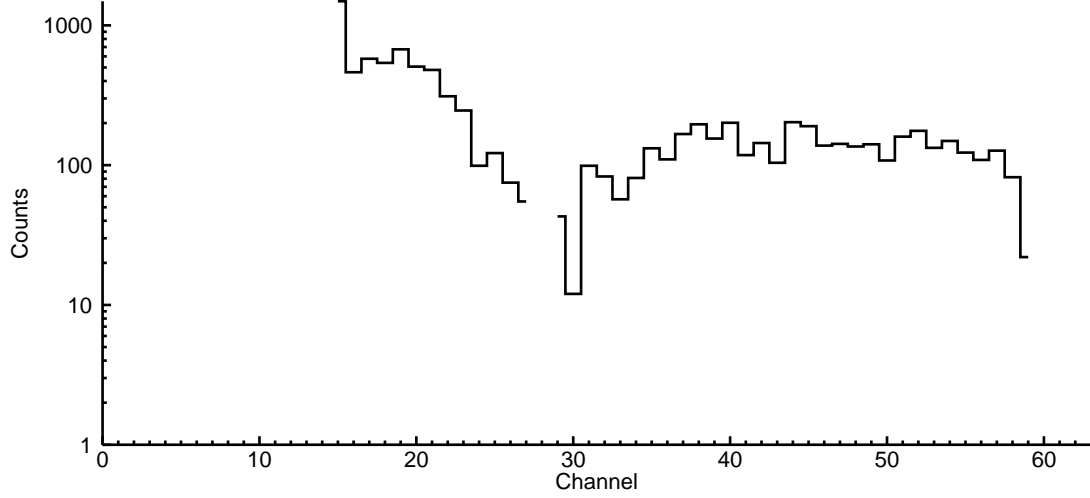




-Z BLP CAT4 first pulse



-Z BLP CAT4 second pulse



-Z BLP CAT4 time to second pulse

