

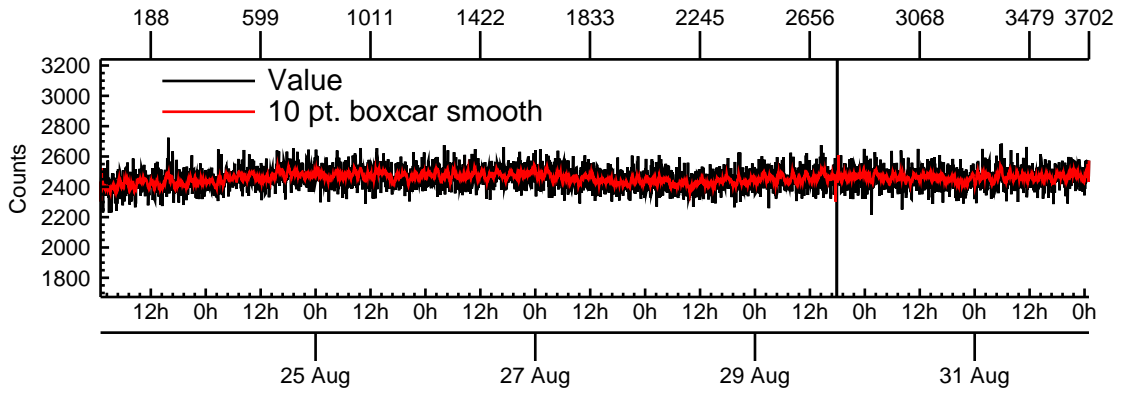
NASA Dawn Mission  
**GRaND@Vesta Browse Charts**  
 GRD-L1A-110823-110901\_130628

- Number of science records: 3703  
 0 missing science packets with 0 gaps.  
 Start/End: 2011-08-23T01:01:59 to 2011-09-01T00:58:58
- Number of SOH records: 22217  
 0 missing SOH packets with 0 gaps.  
 Start/End: 2011-08-23T01:00:03 to 2011-09-01T00:59:02
- 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):

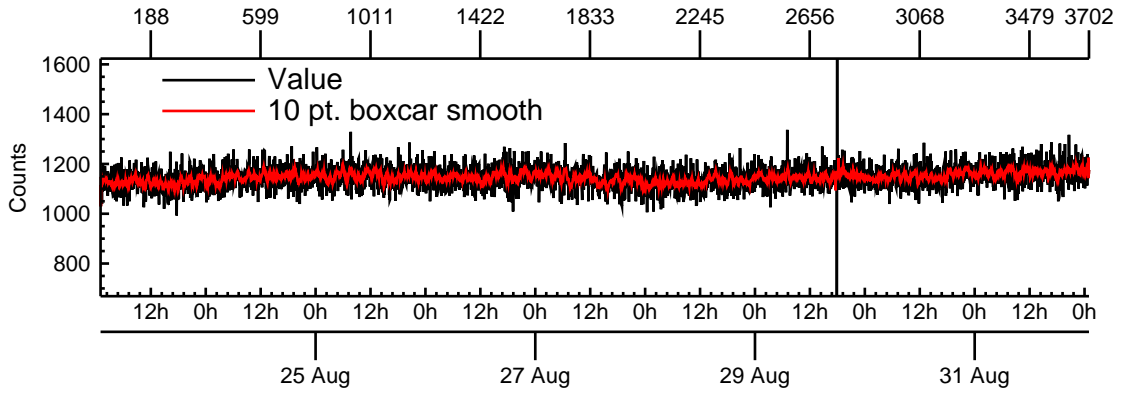
TELREADOUT	210	NEMG_TOT_EVTS	3876
TELSOH	35	NEMG_CZT_EVTS	3376
MODE	1	NEMN_TOT_EVTS	2800
HVPS1	1	L_BGO_CW	1
HVPS1_SET	180	H_BGO_CW	64
HVPS2	1	L_BGO_ROI	1
HVPS2_SET	170	H_BGO_ROI	64
HVPS3	1	L_BLP_MY_CW	1
HVPS3_SET	175	H_BLP_MY_CW	64
HVPS4	1	L_BLP_MY_ROI	1
HVPS4_SET	180	H_BLP_MY_ROI	64
HVPS5	1	L_BLP_PY_CW	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



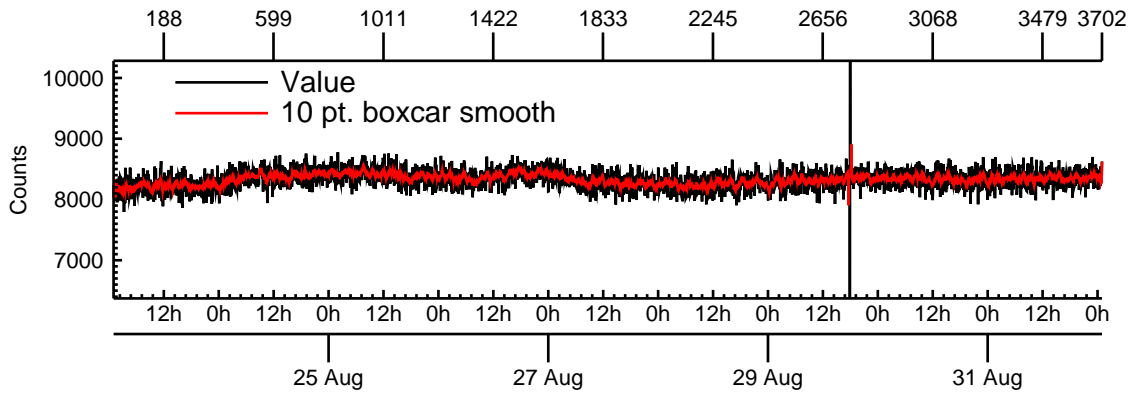
-Y BLP overload events



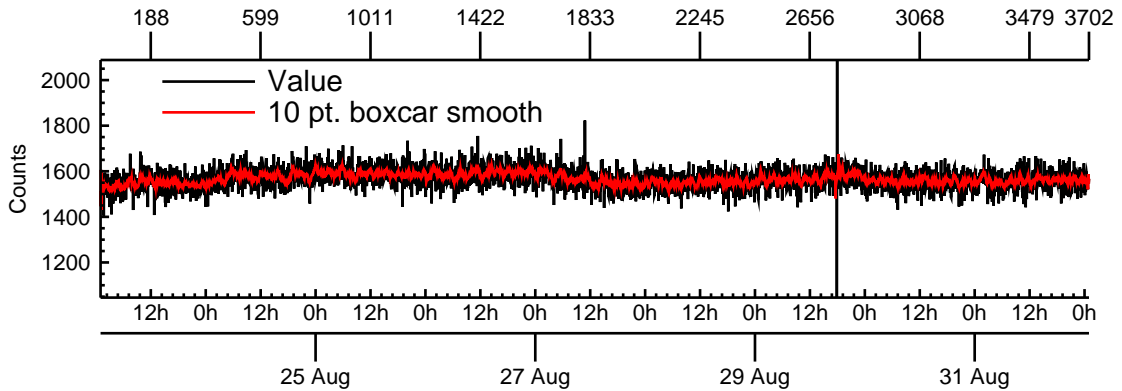
+Y BLP overload events



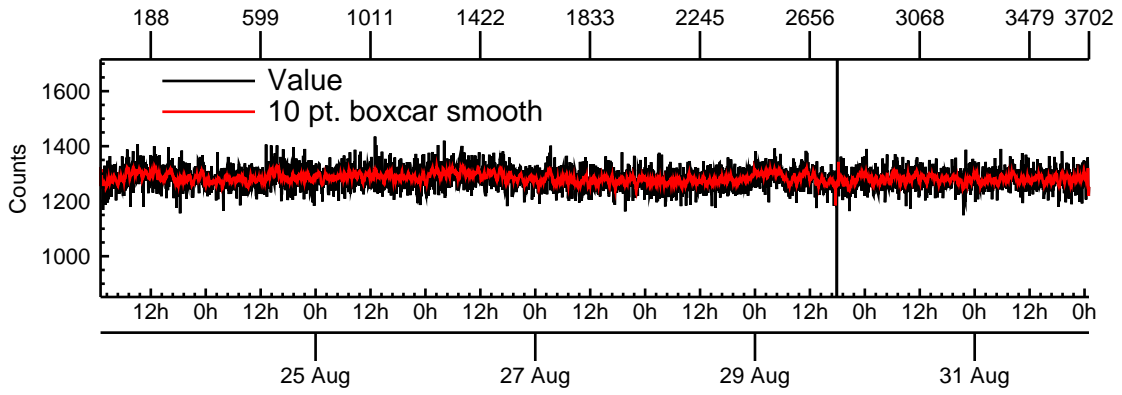
-Z phoswich overload events



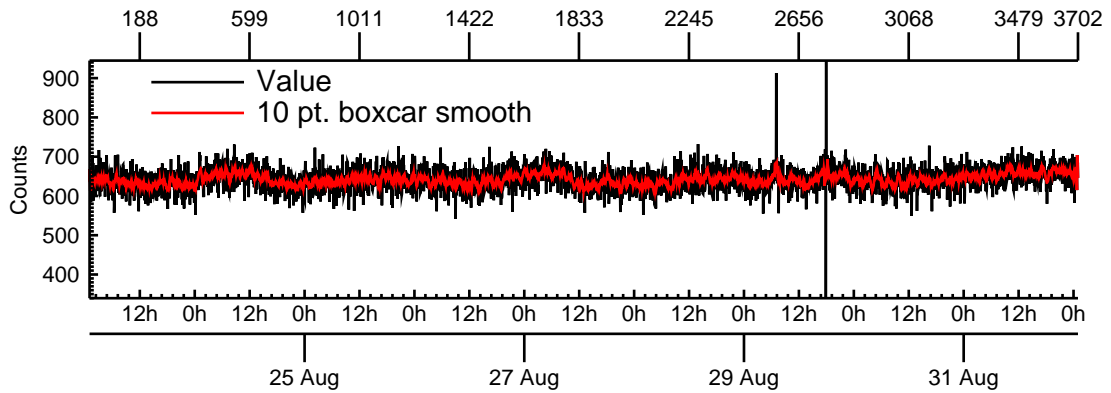
+Z phoswich CAT4 events



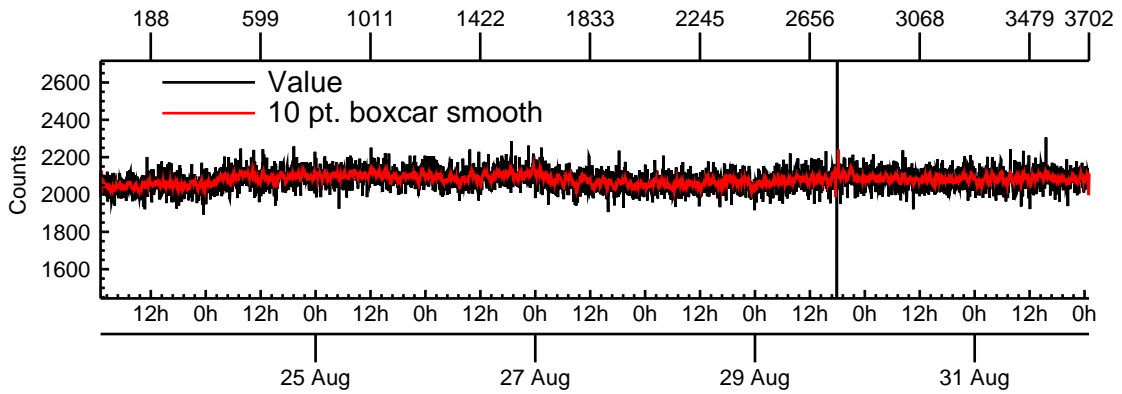
### -Y BLP CAT4 events



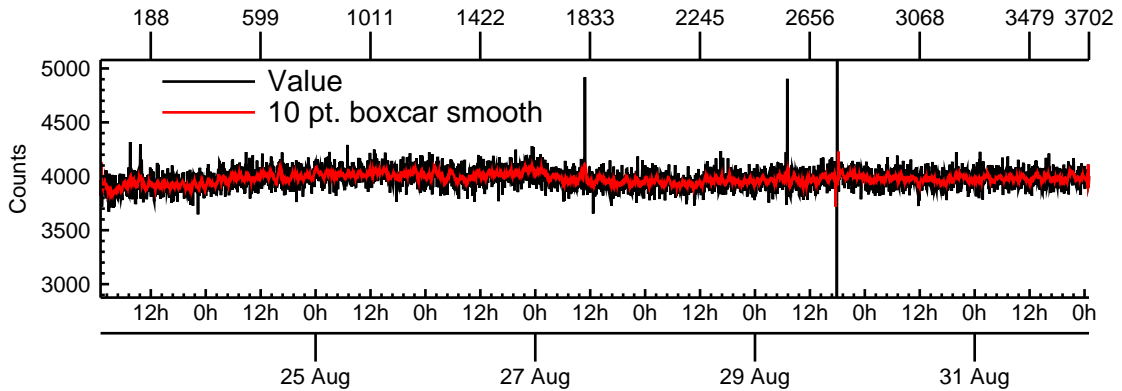
### +Y BLP CAT4 events



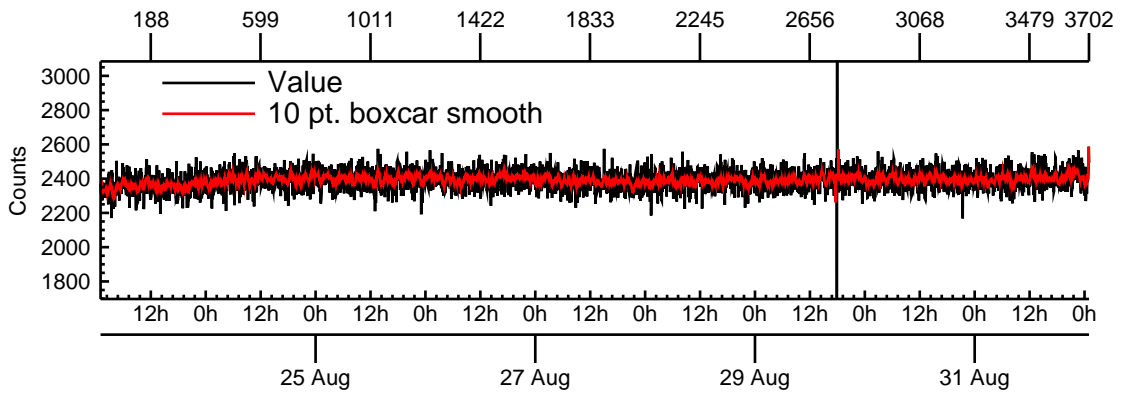
### -Z phoswich CAT4 events



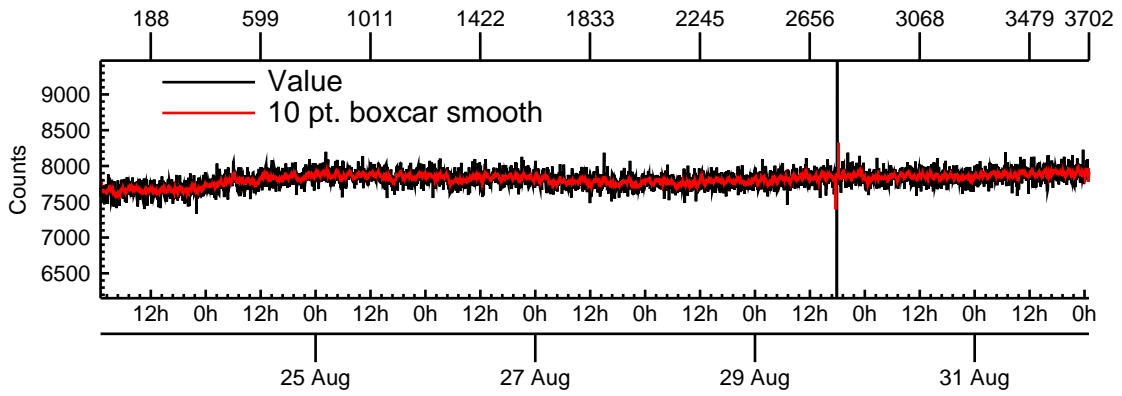
### Early second interaction events



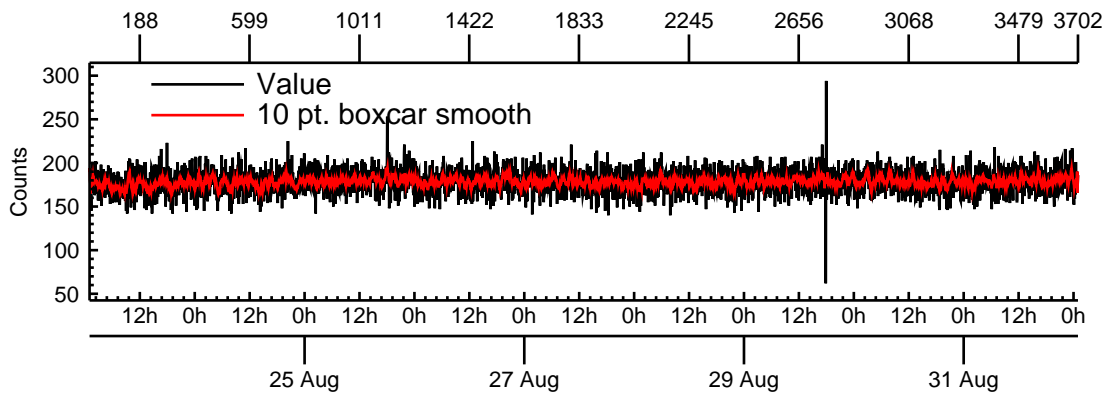
### Multiple-crystal CZT events



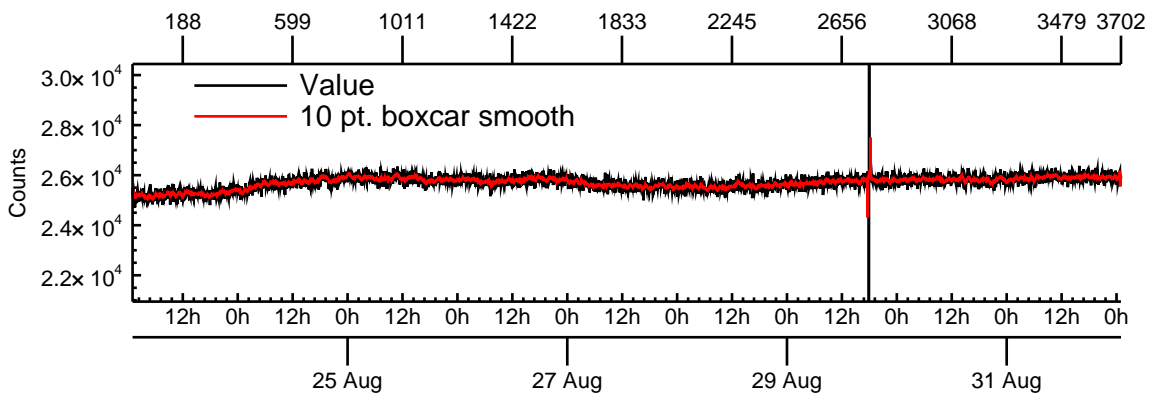
### Valid CZT events (CAT10)



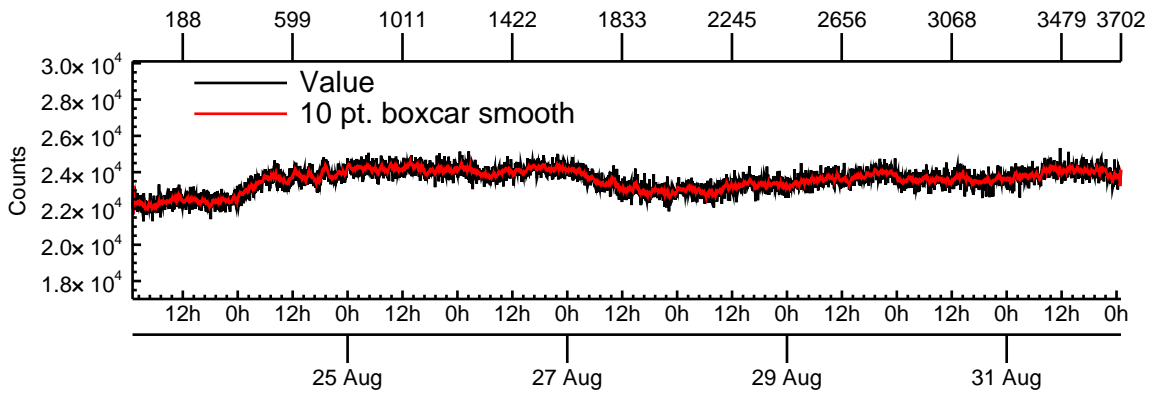
### Coincidence BGO and CZT events (CAT7)



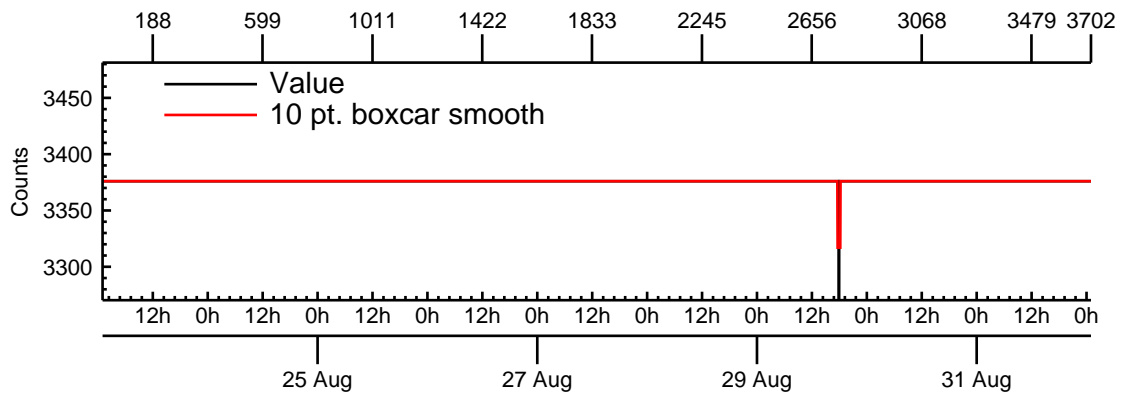
### Coincidence of three or more sensor elements



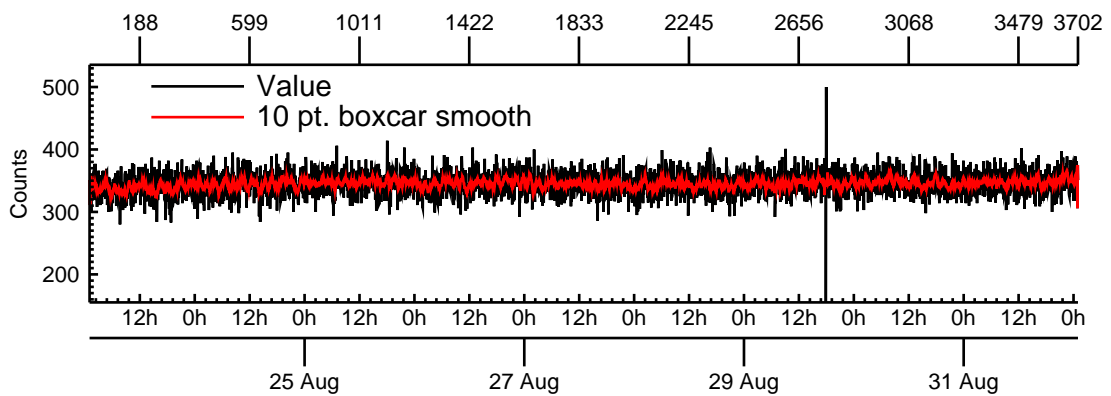
### Total events processed by GRaND



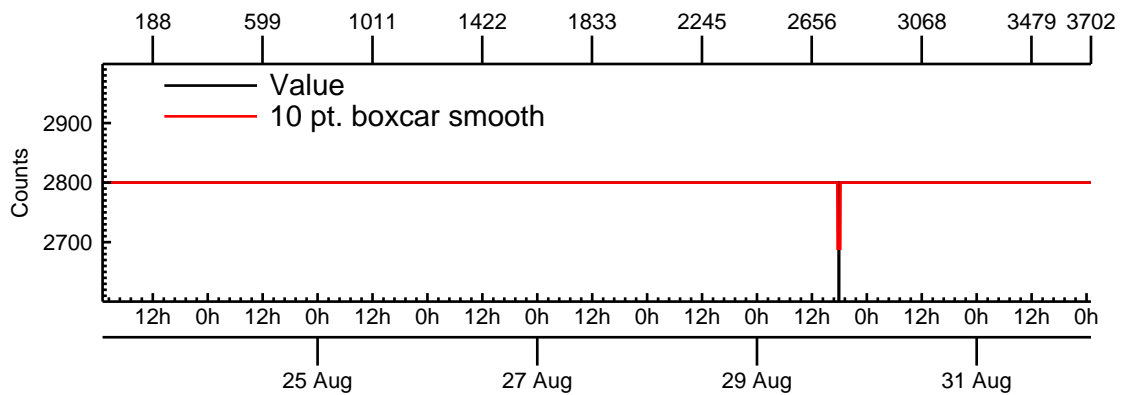
### Number of single CZT events (CAT10) in the gamma ray event buffer



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



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

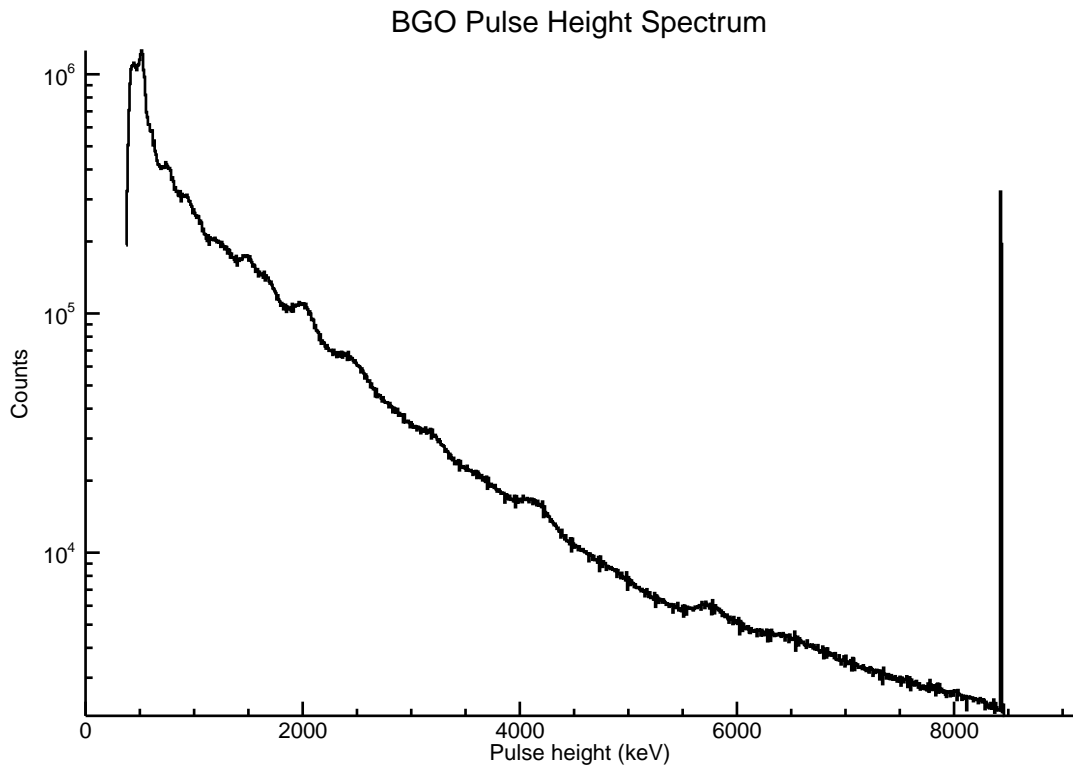
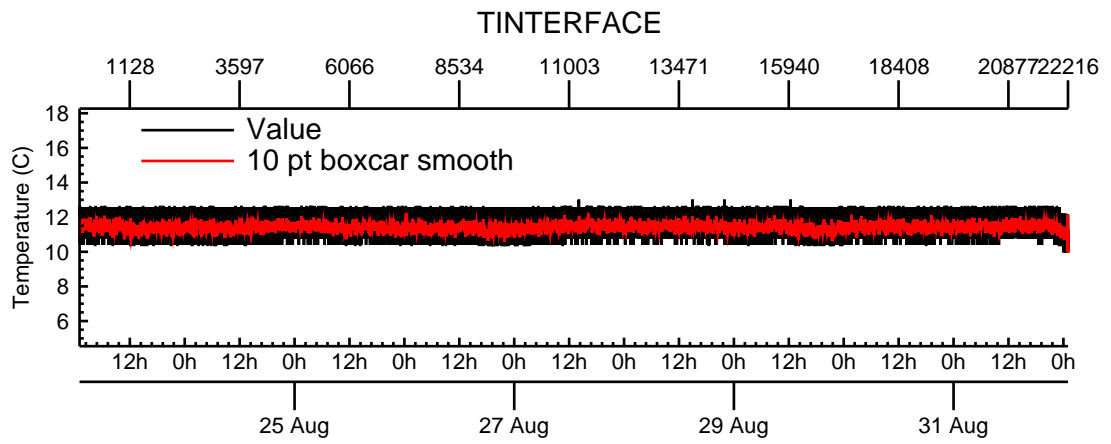
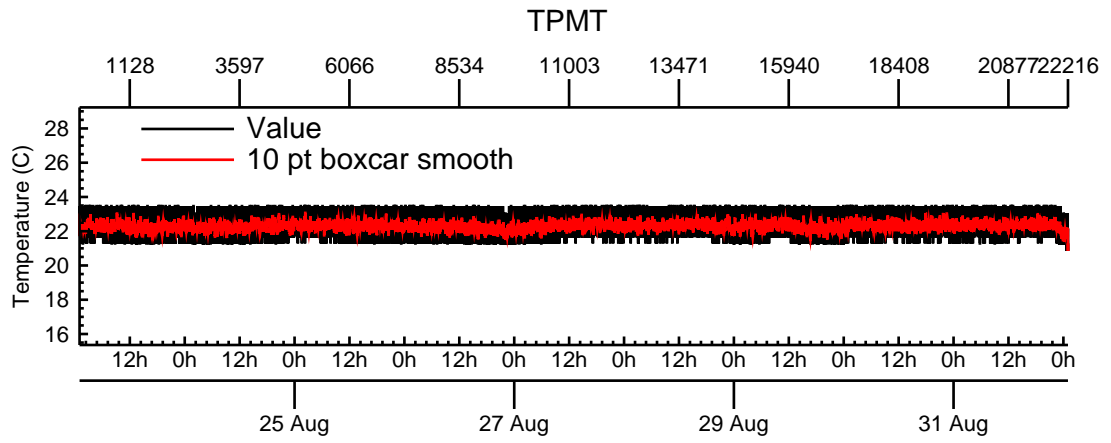




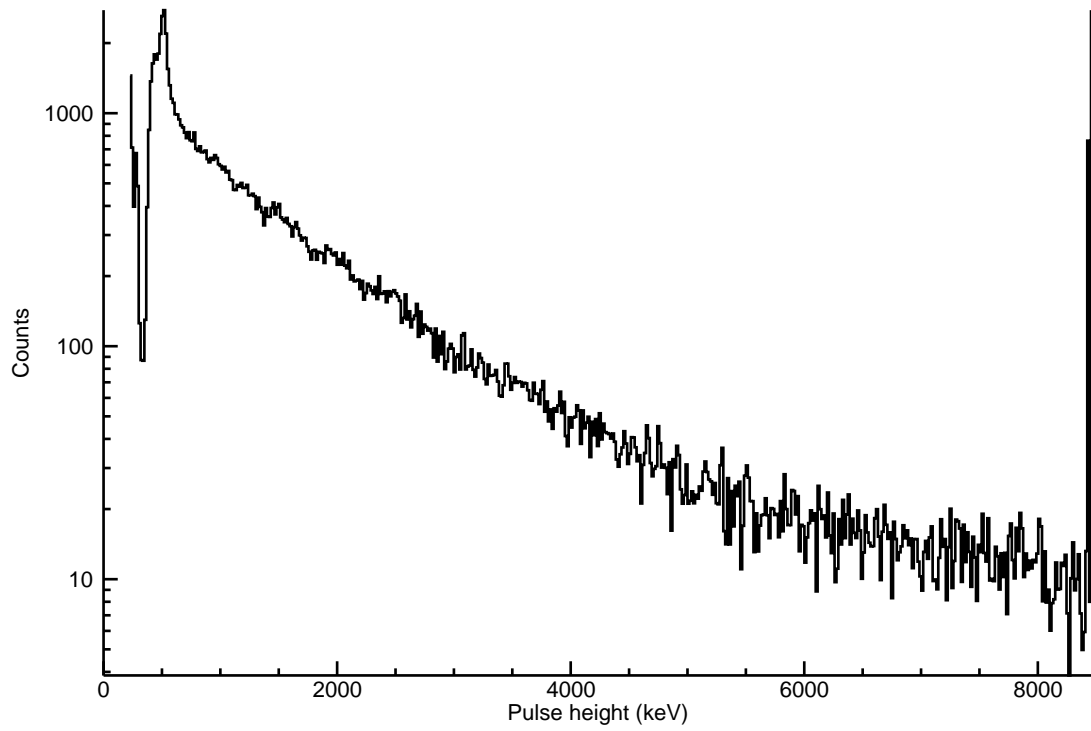




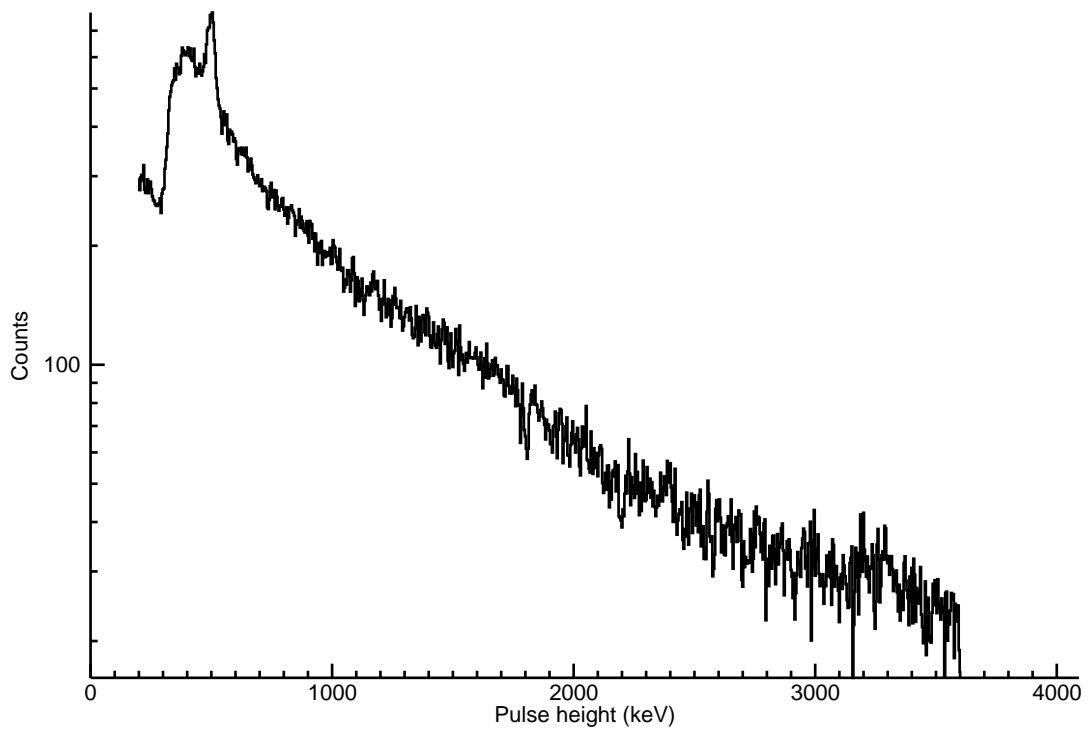




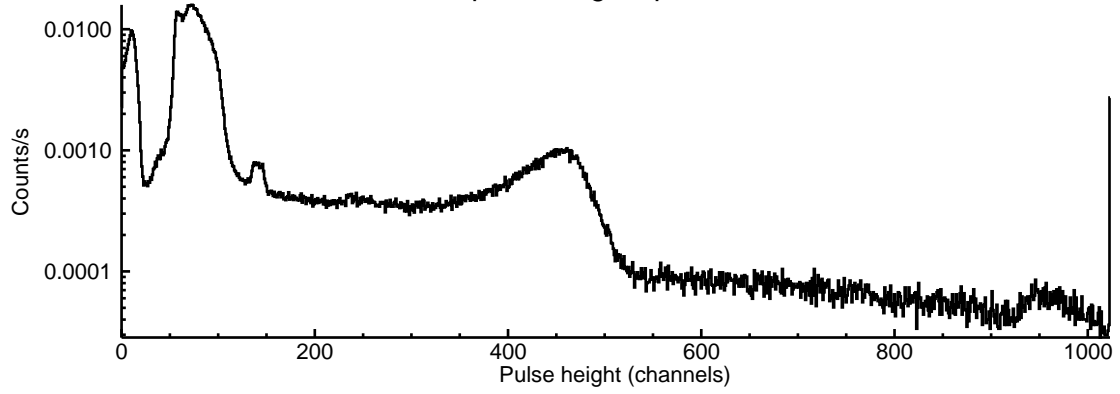
BGO-CZT pair spectrum: BGO



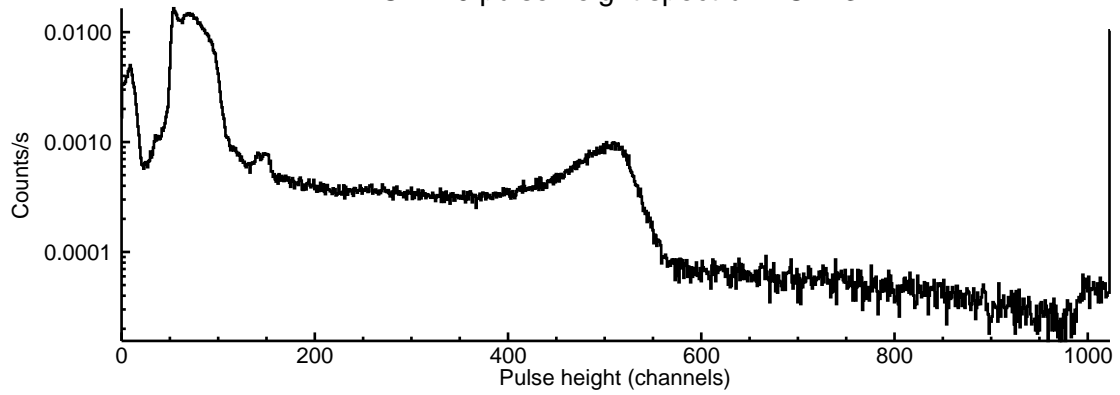
BGO-CZT pair spectrum: CZT



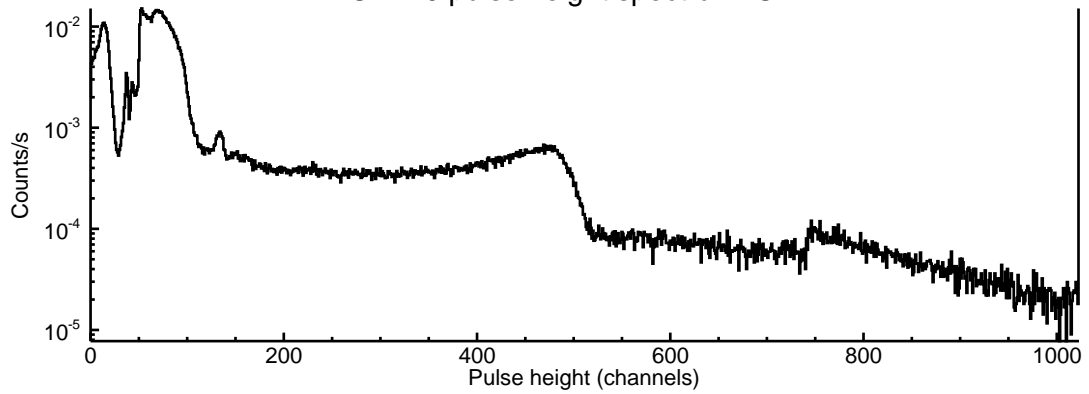
CAT10 pulse height spectrum: CZT11



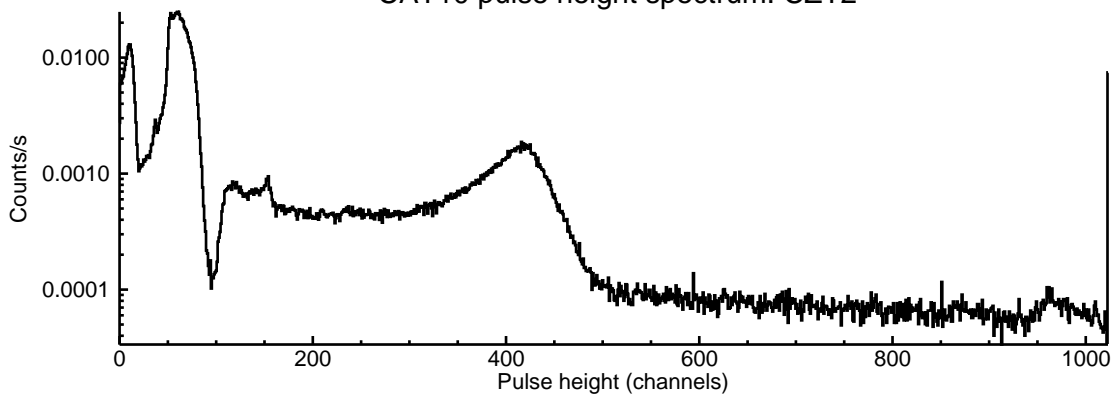
CAT10 pulse height spectrum: CZT3



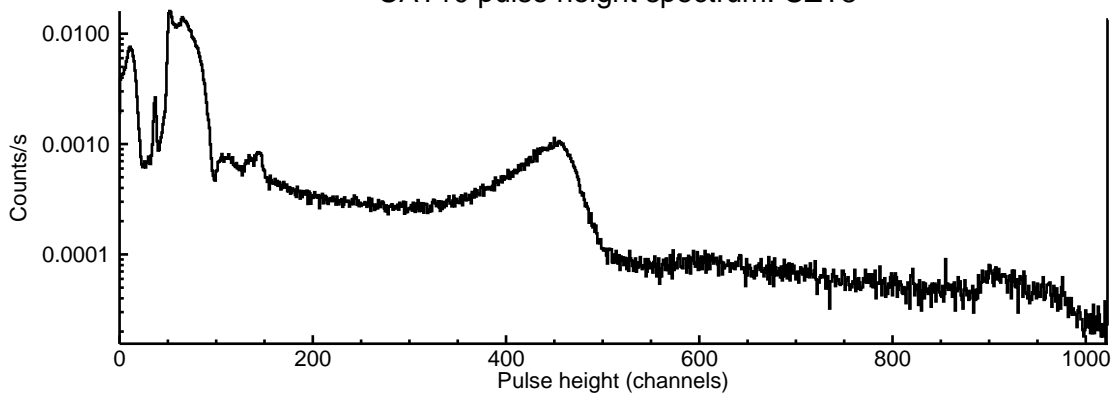
CAT10 pulse height spectrum: CZT1



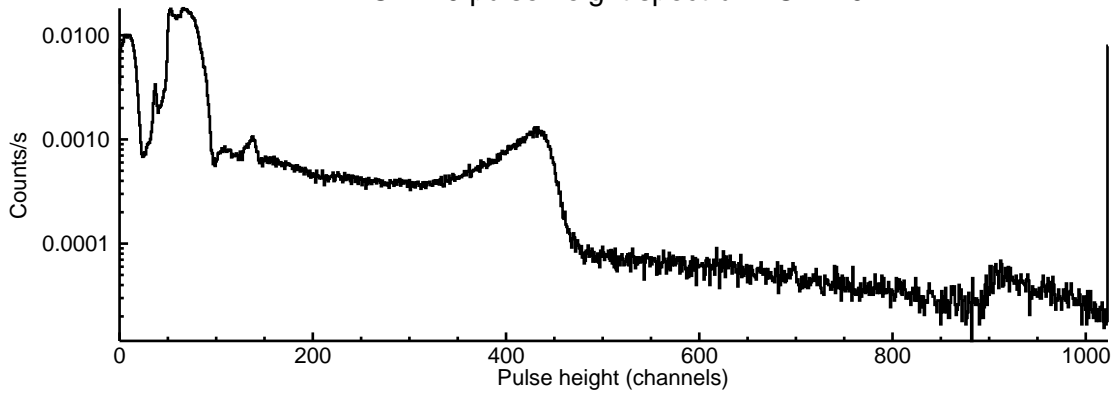
CAT10 pulse height spectrum: CZT2



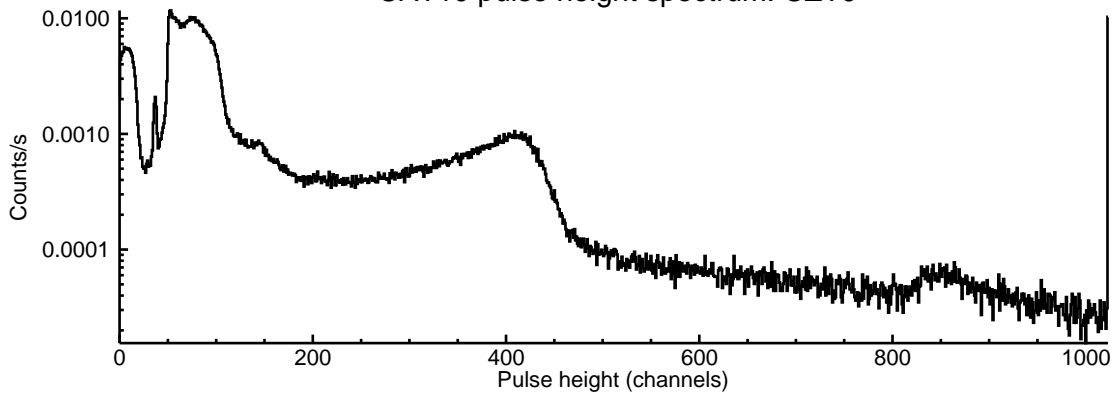
CAT10 pulse height spectrum: CZT8



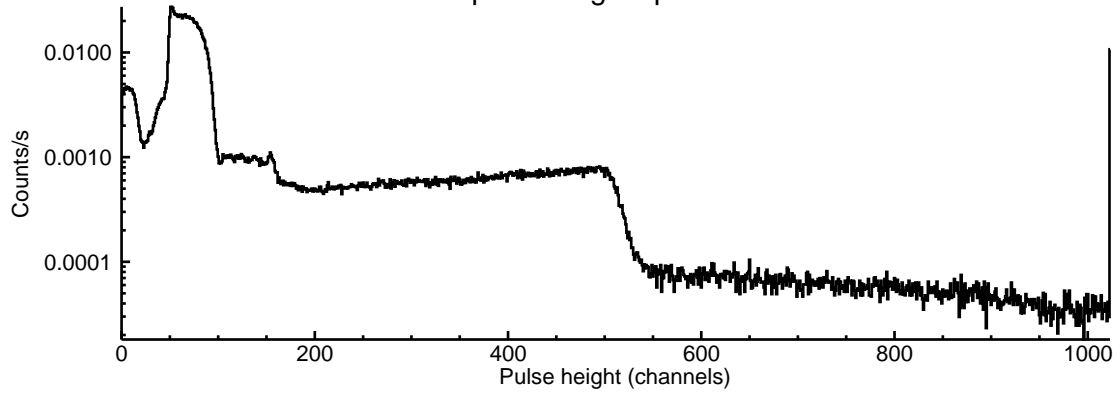
CAT10 pulse height spectrum: CZT10



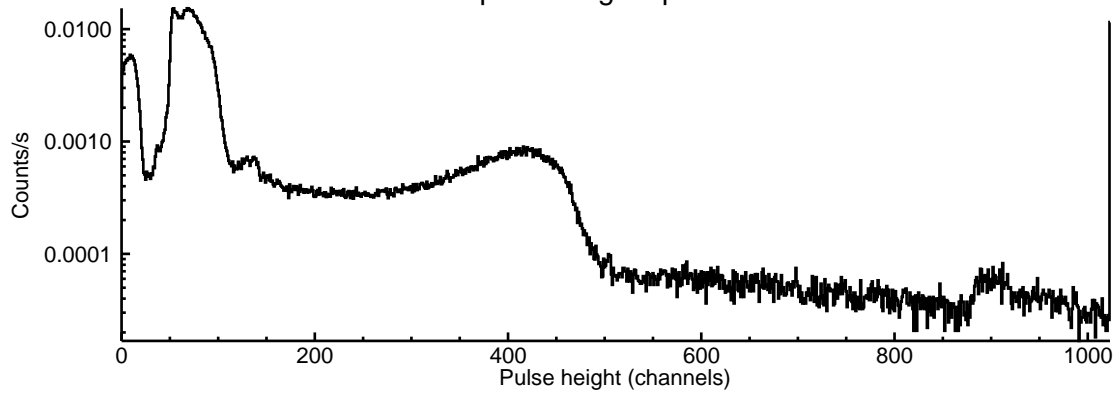
CAT10 pulse height spectrum: CZT0



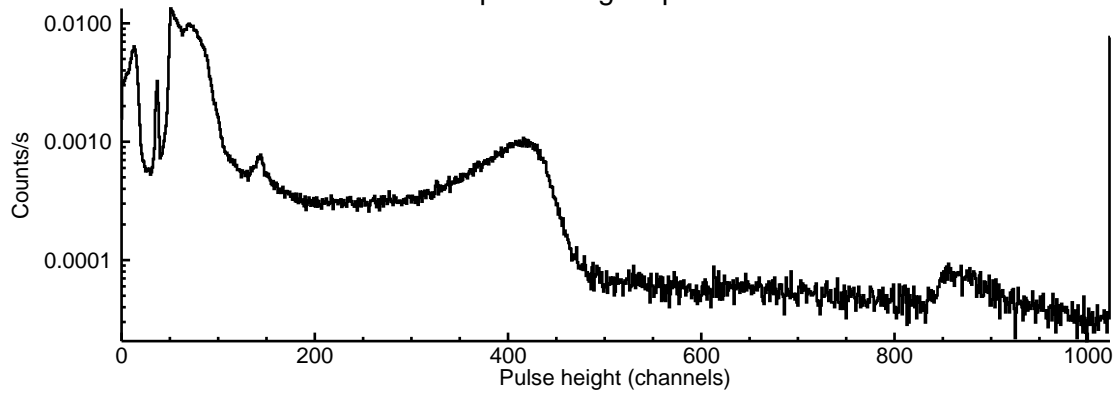
CAT10 pulse height spectrum: CZT15

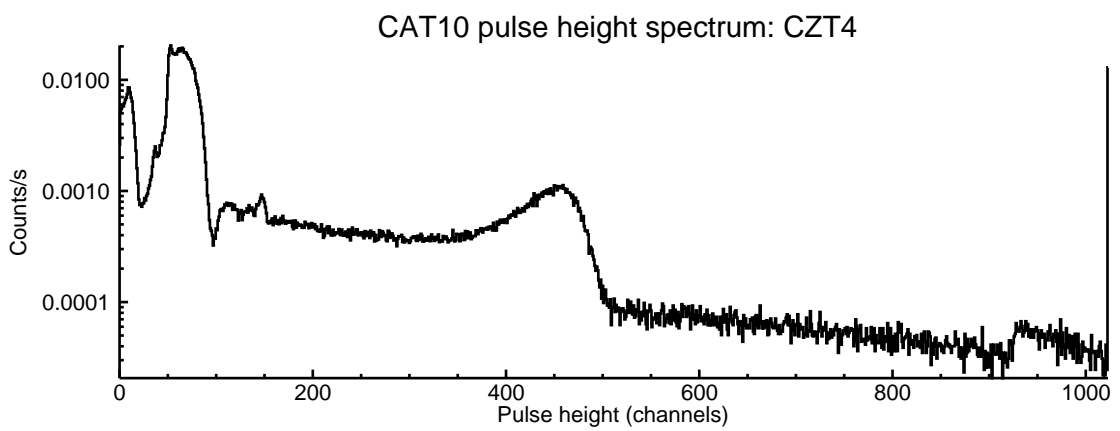
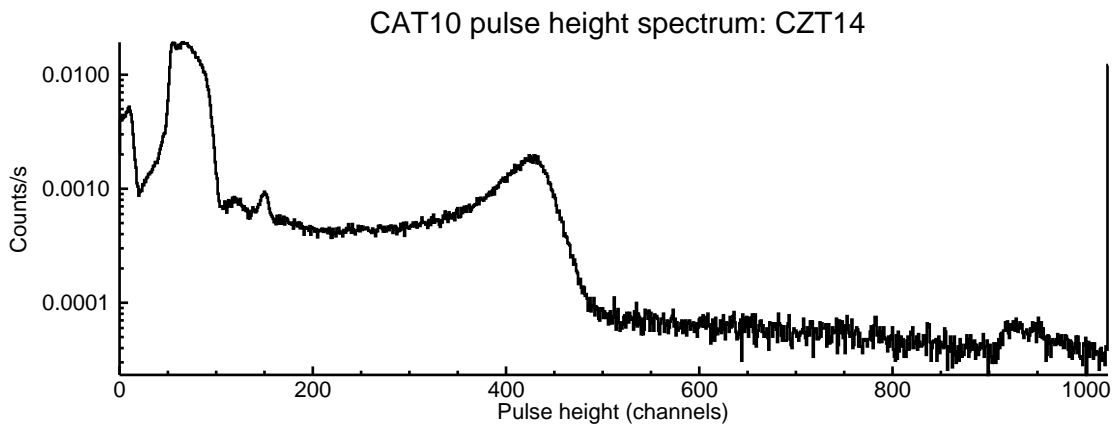
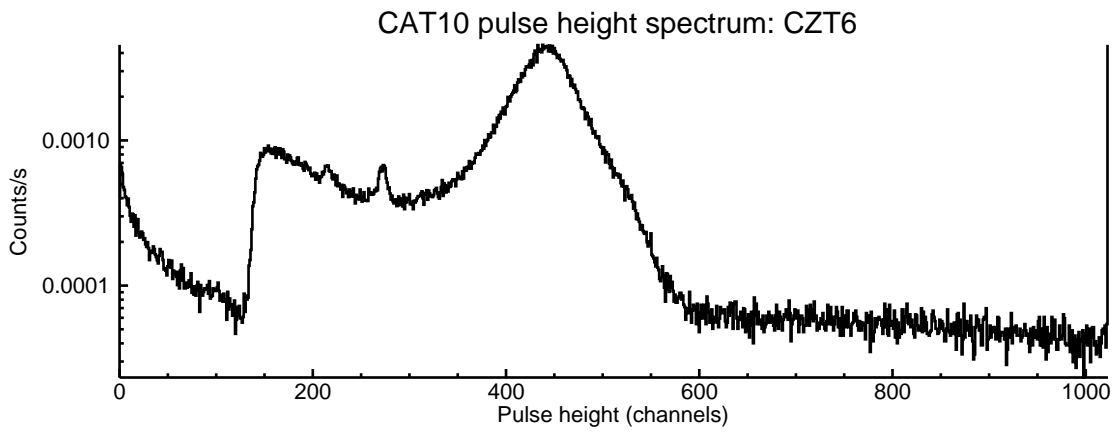


CAT10 pulse height spectrum: CZT7

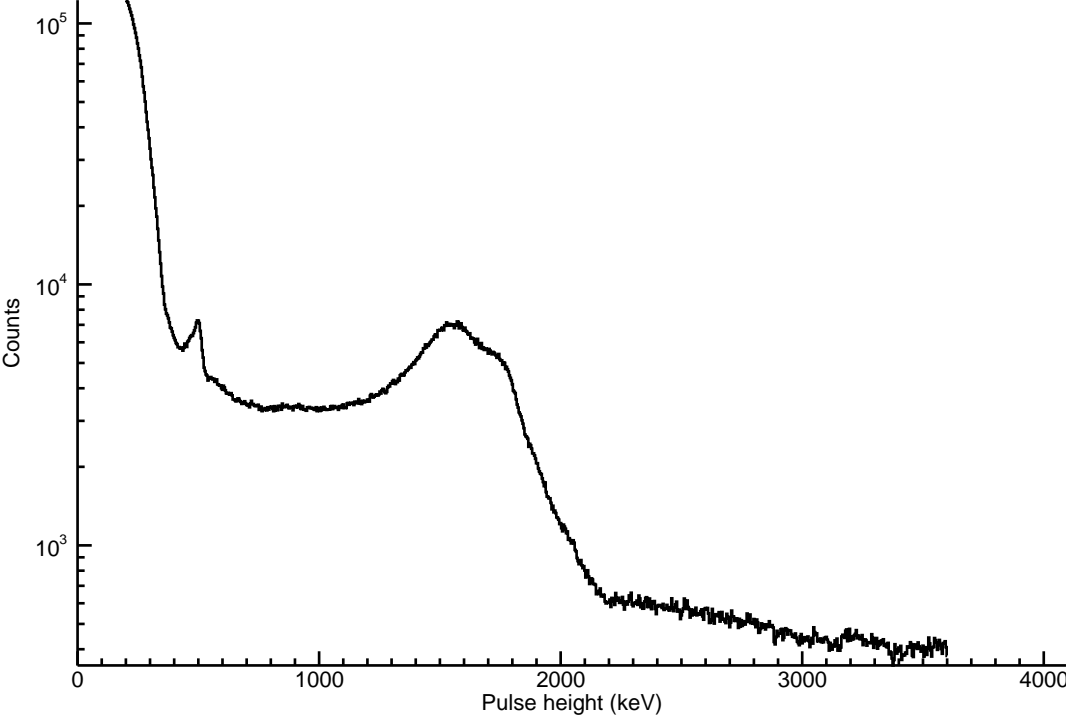


CAT10 pulse height spectrum: CZT5

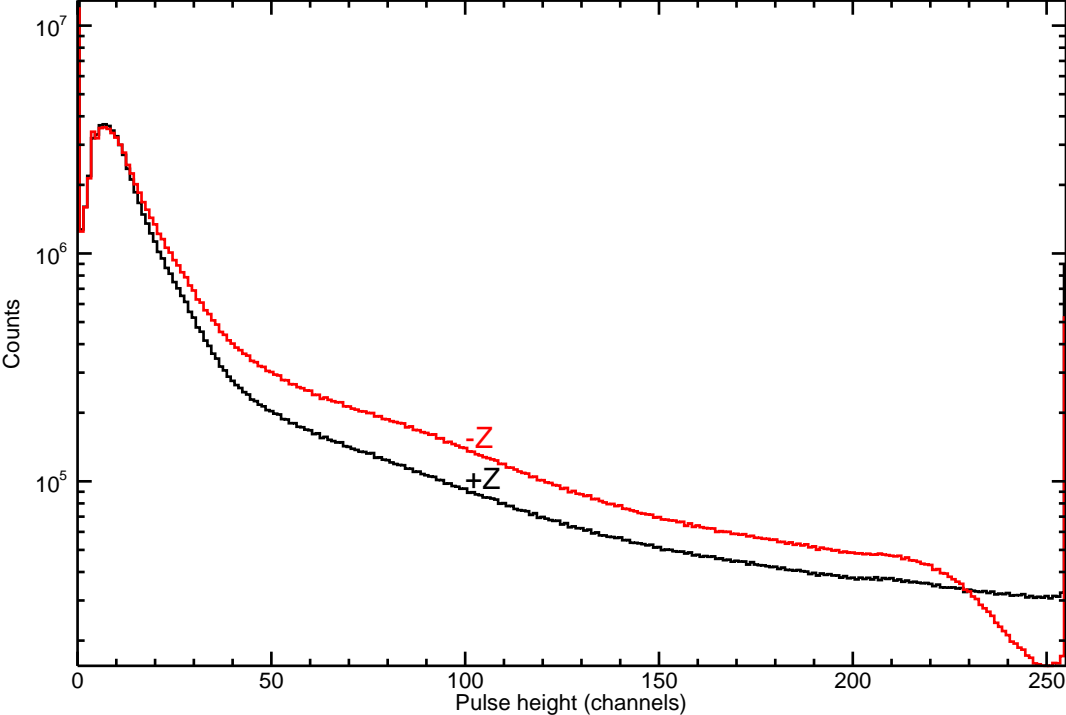




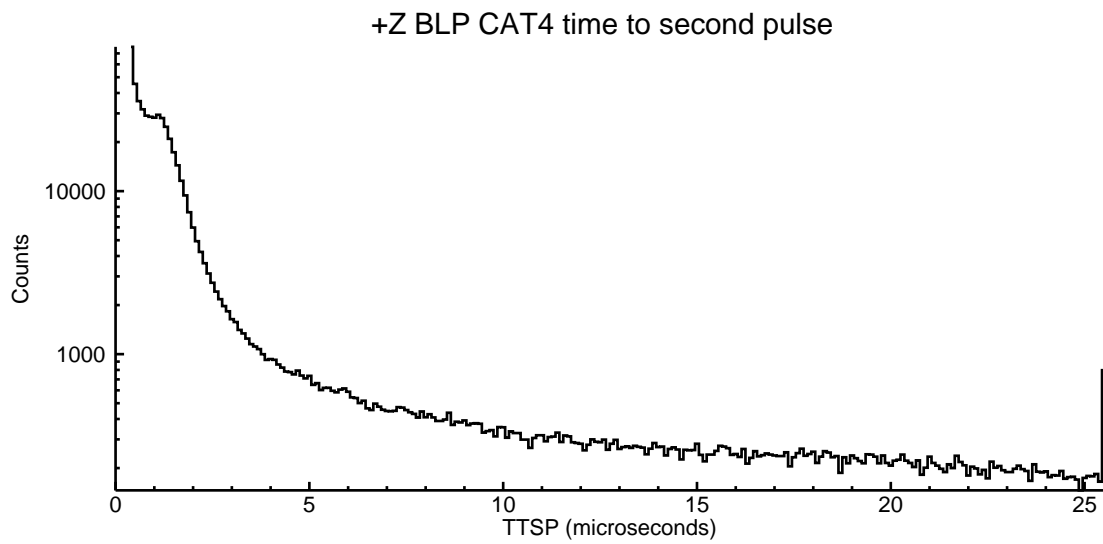
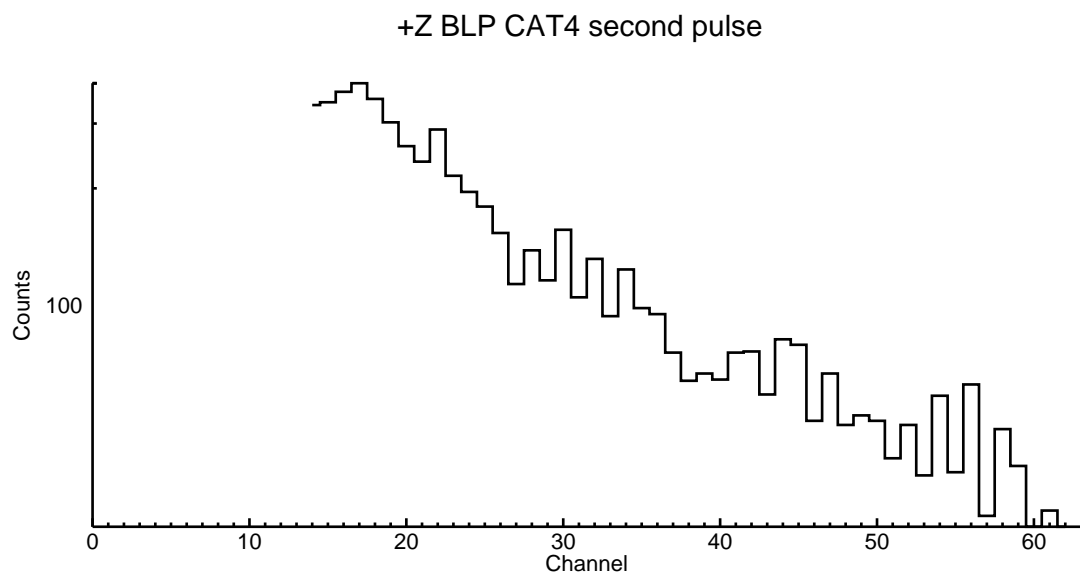
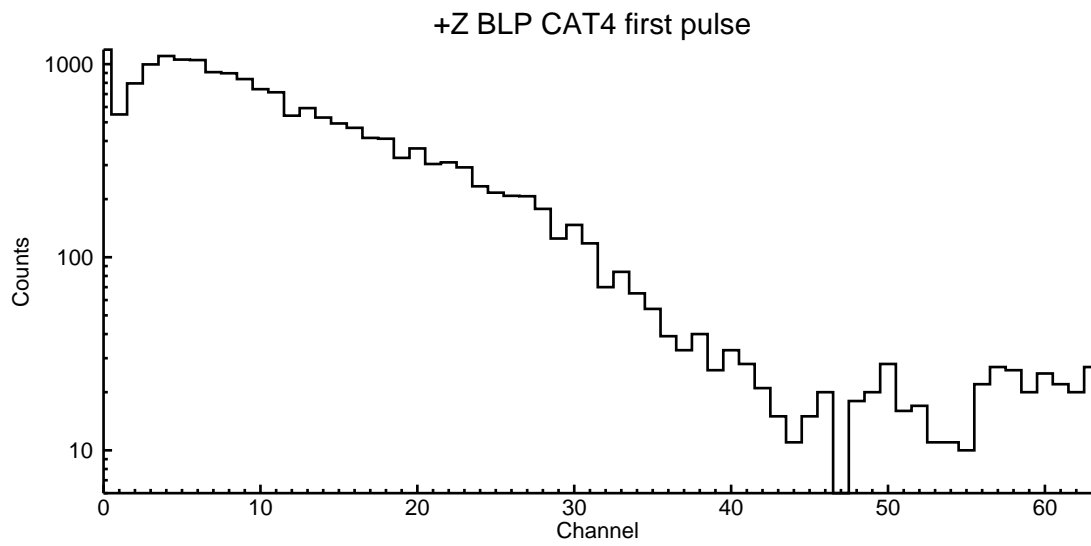
CAT10 CZT composite



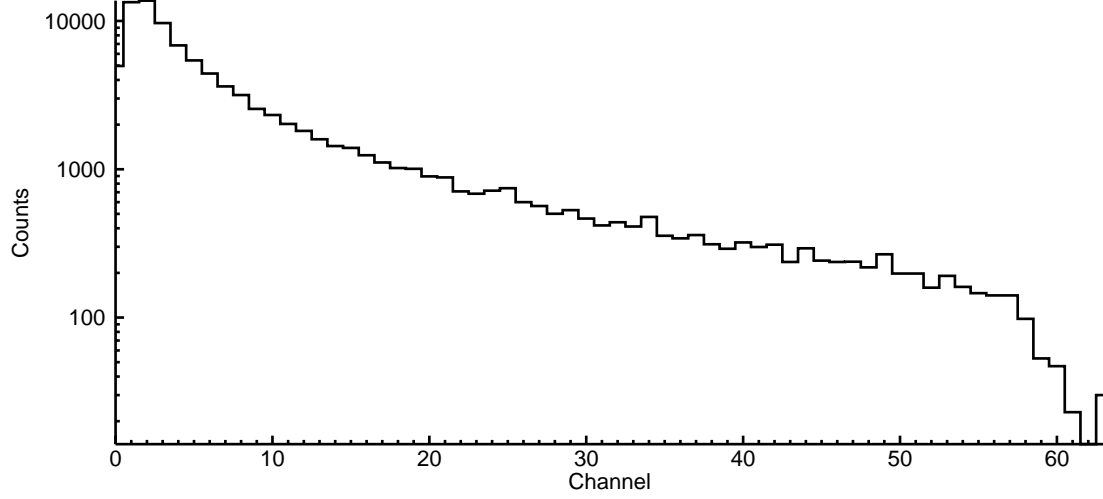
CAT1 histograms



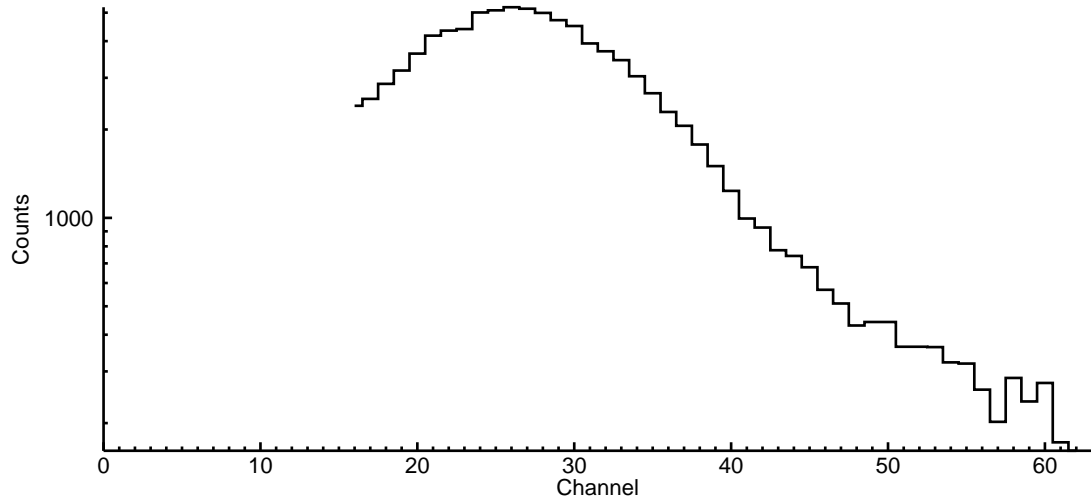




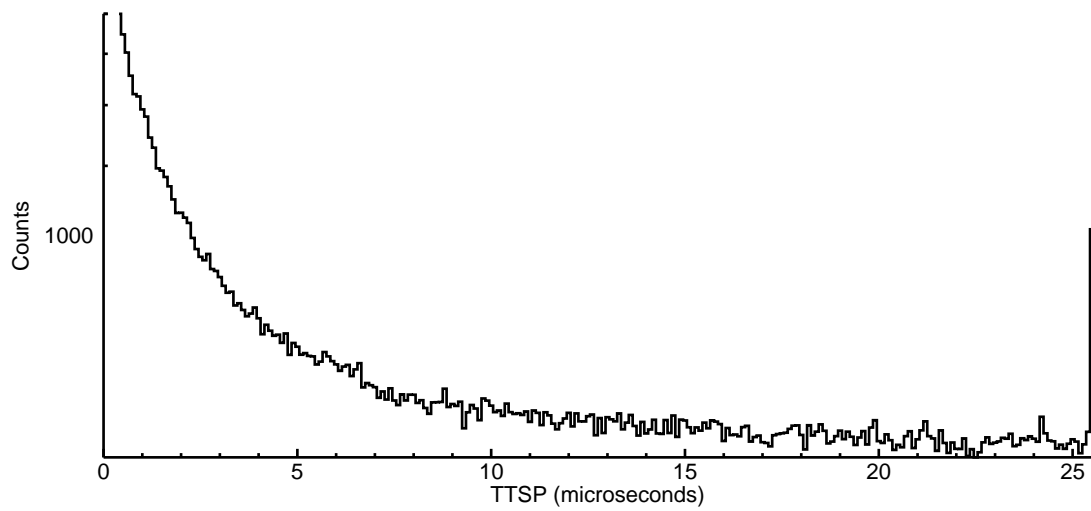
-Y BLP CAT4 first pulse

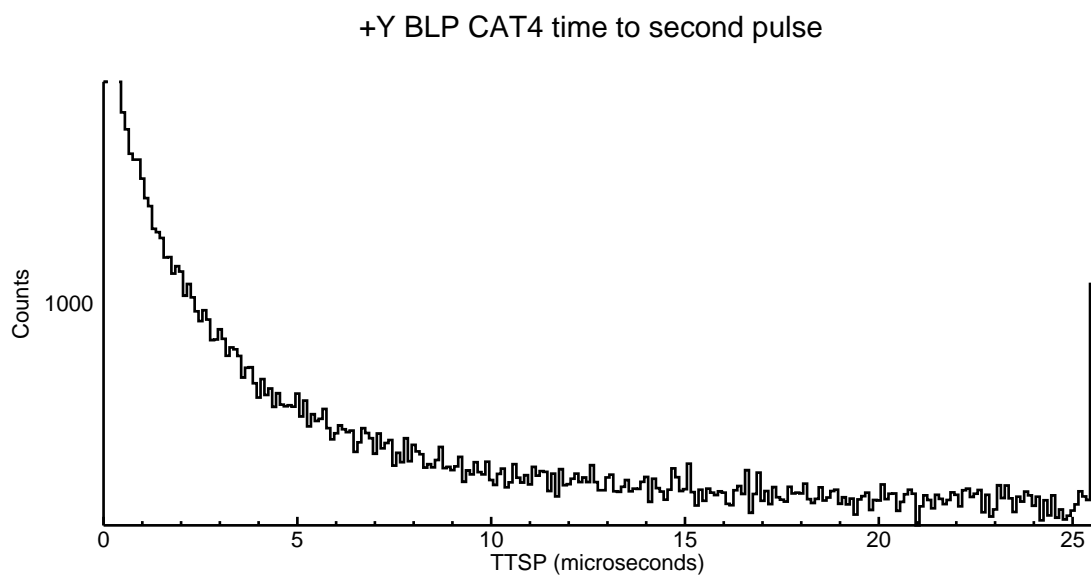
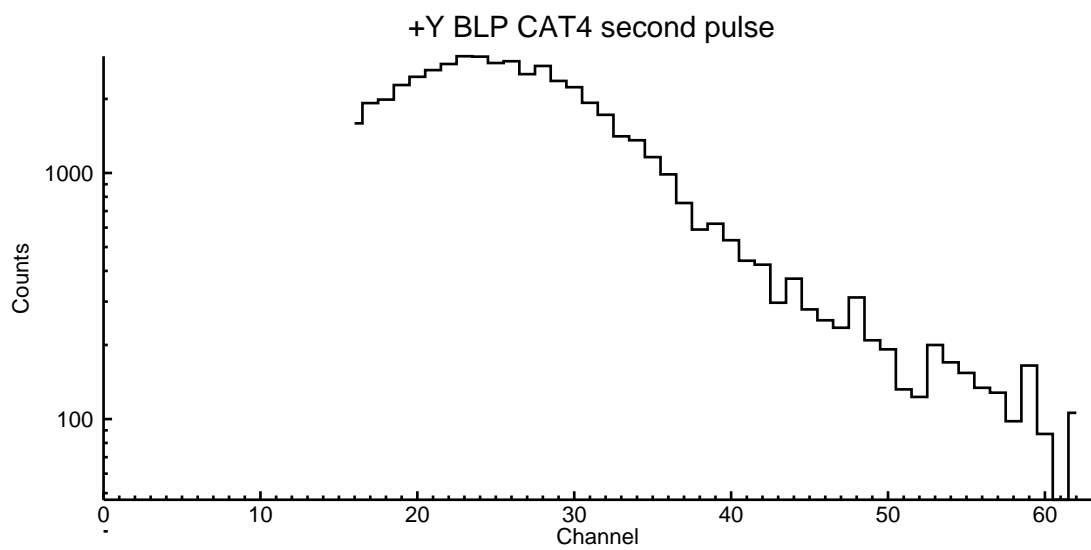
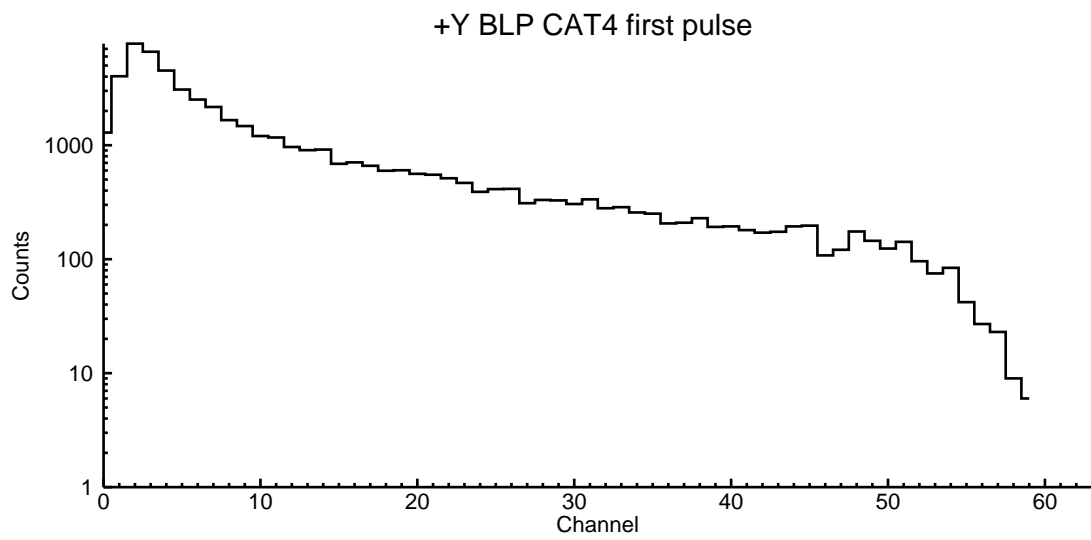


-Y BLP CAT4 second pulse

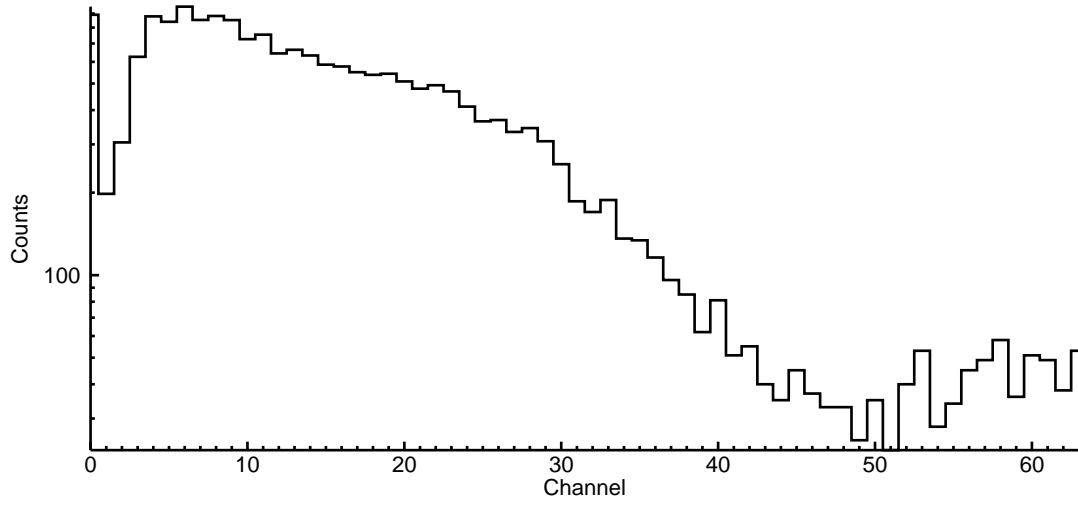


-Y BLP CAT4 time to second pulse

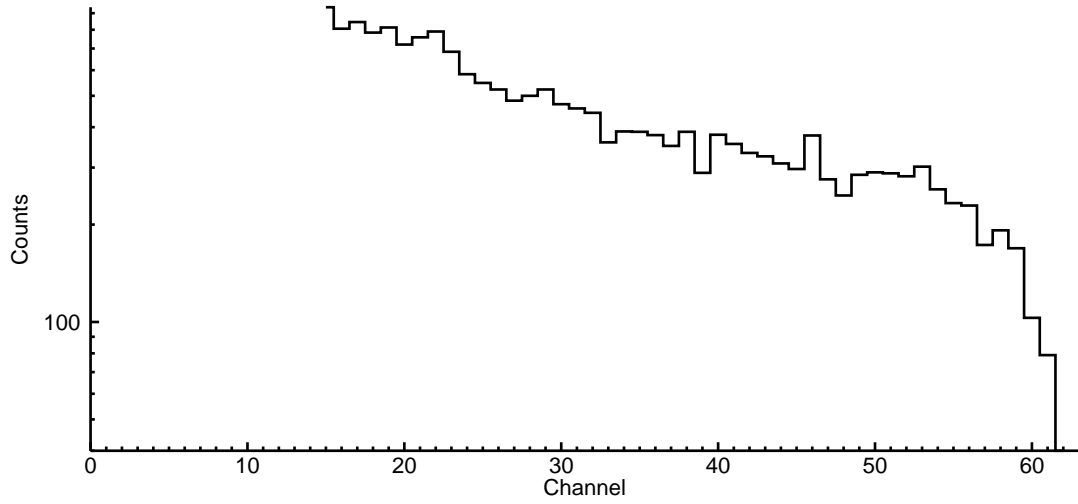




-Z BLP CAT4 first pulse



-Z BLP CAT4 second pulse



-Z BLP CAT4 time to second pulse

