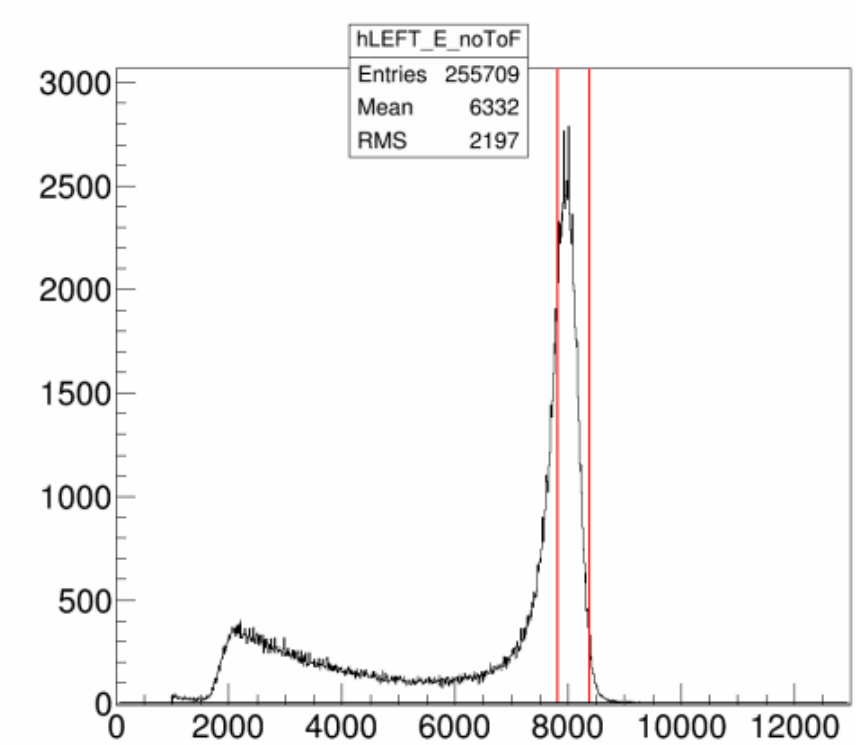
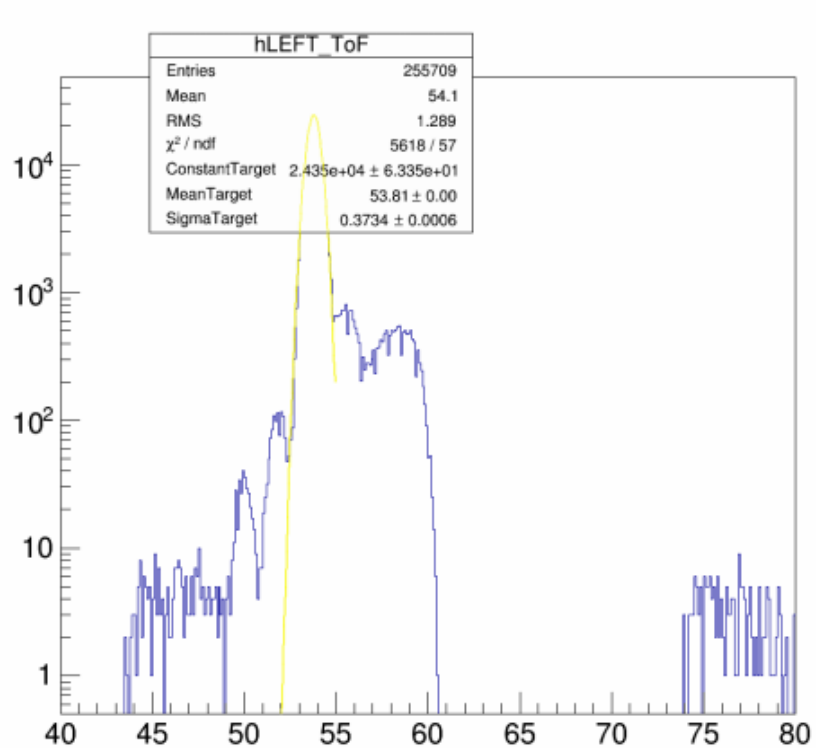
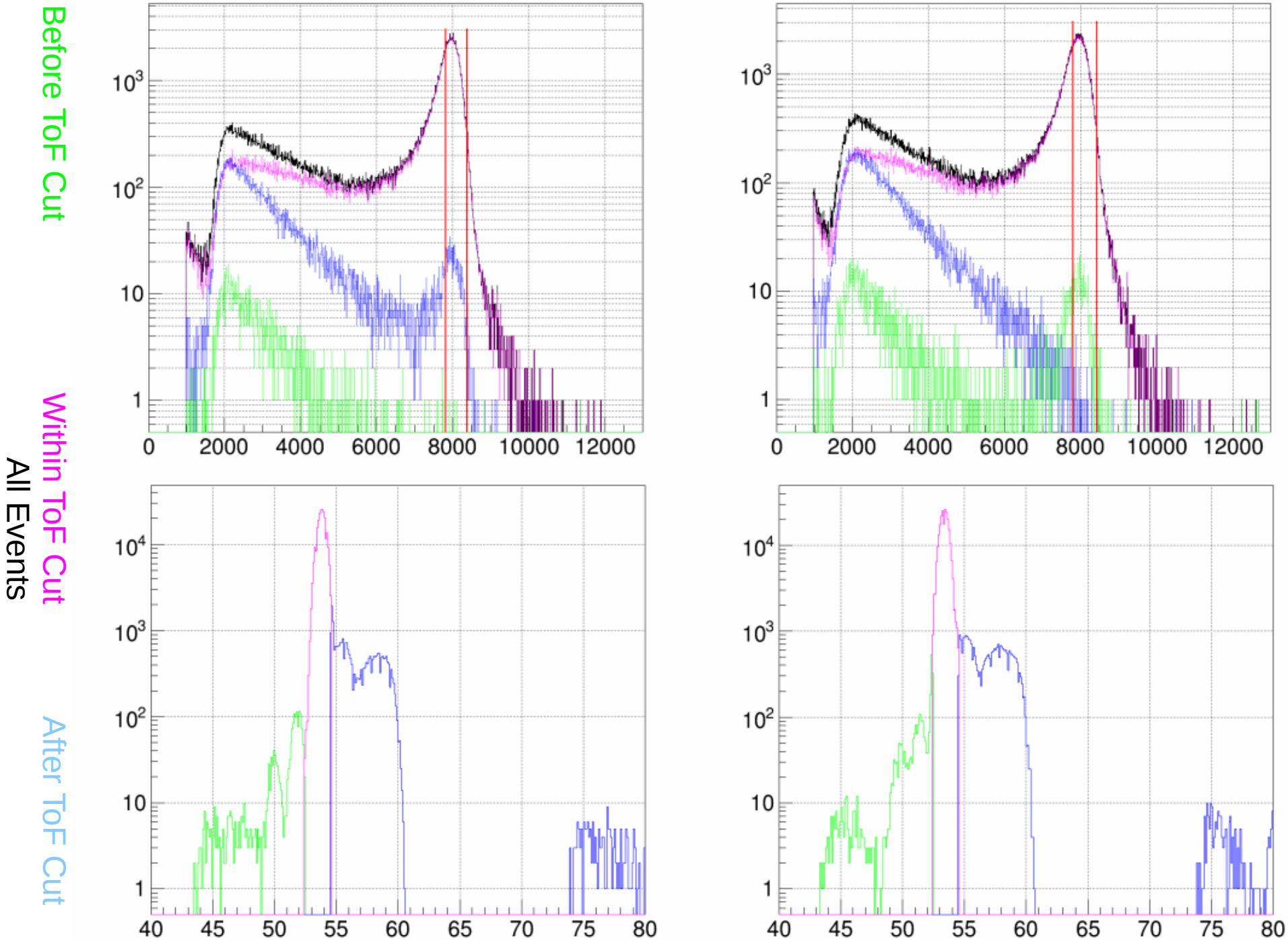
Mott E-Spectra from Before and After ToF-Cut





Run 8545 from Run II, 350nm Foil, Left Detector
Standard Cuts: ToF [-2: +2 sigma], E [-0.5 : +2] sigma
Asymmetry in L/R Detectors



Run 8545 from Run II, 350nm Foil

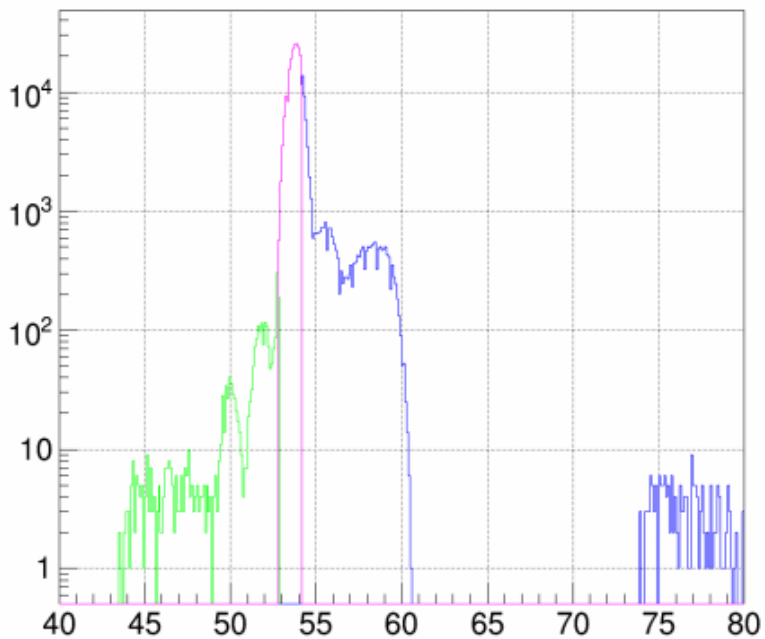
LEFT ToF:[-2:+2] E:[-0.5:+2] RIGHT

Before ToF Cut

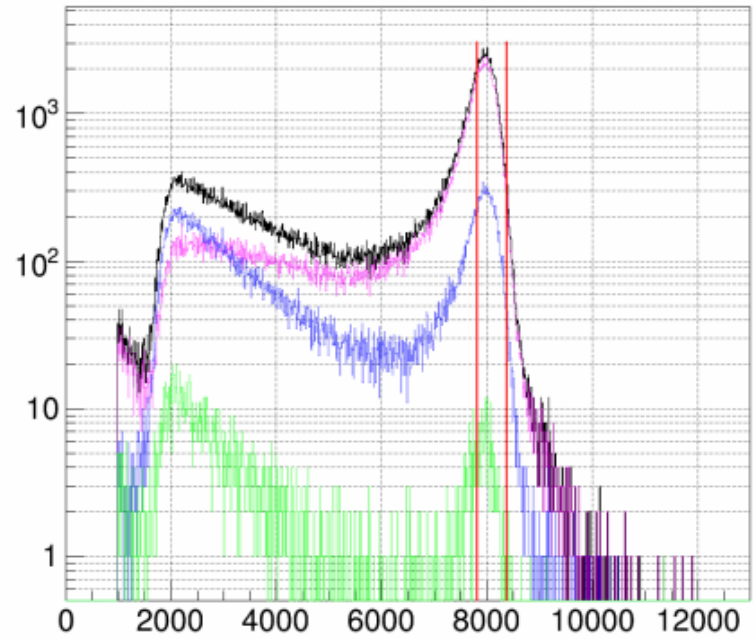
Within ToF Cut

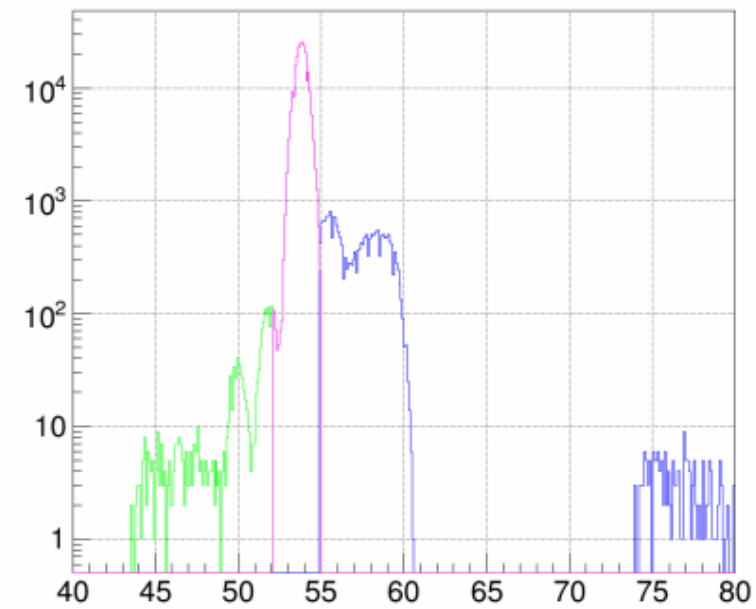
All Events

After ToF Cut

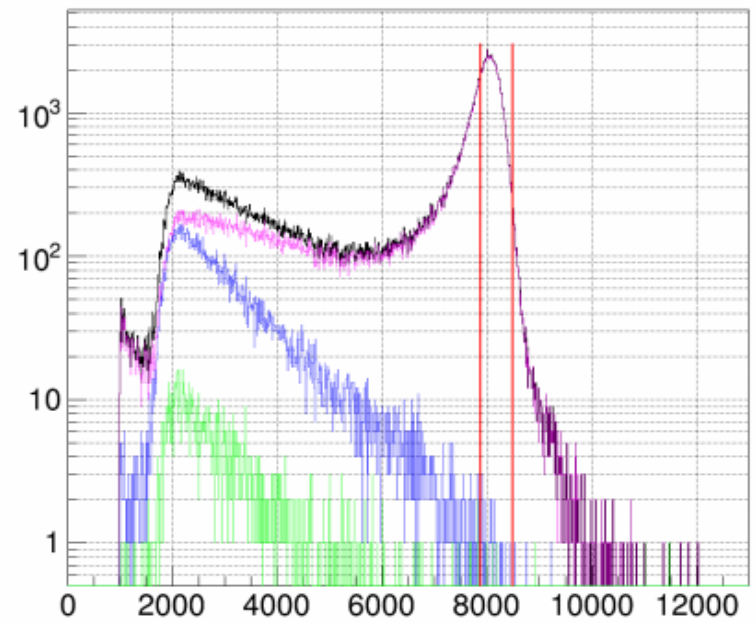


ToF
[-1:+1]





ToF
[-3:+3]



Run 8545 from Run II, 350nm Foil, Left Detector
E: [-0.5 : +2]

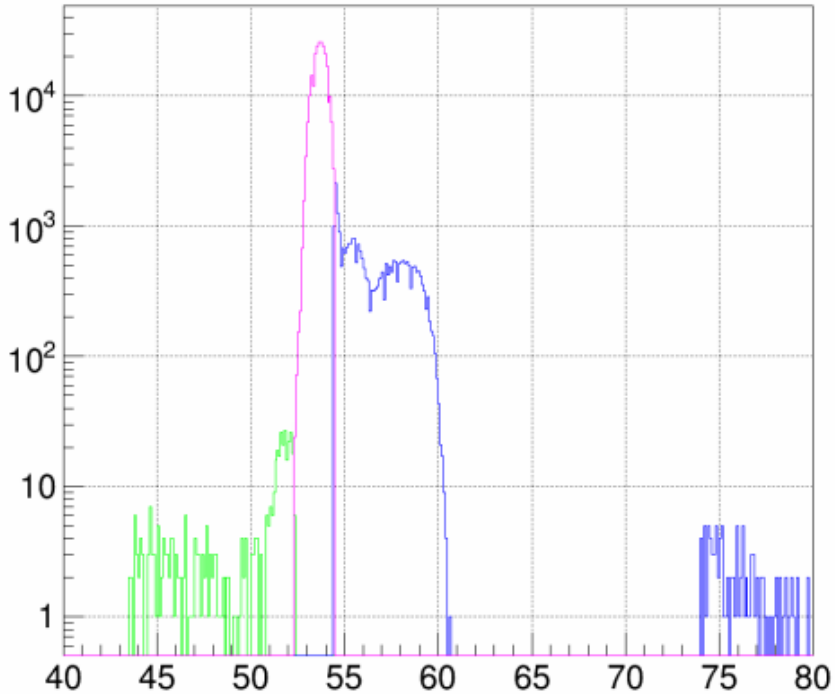
Before ToF Cut

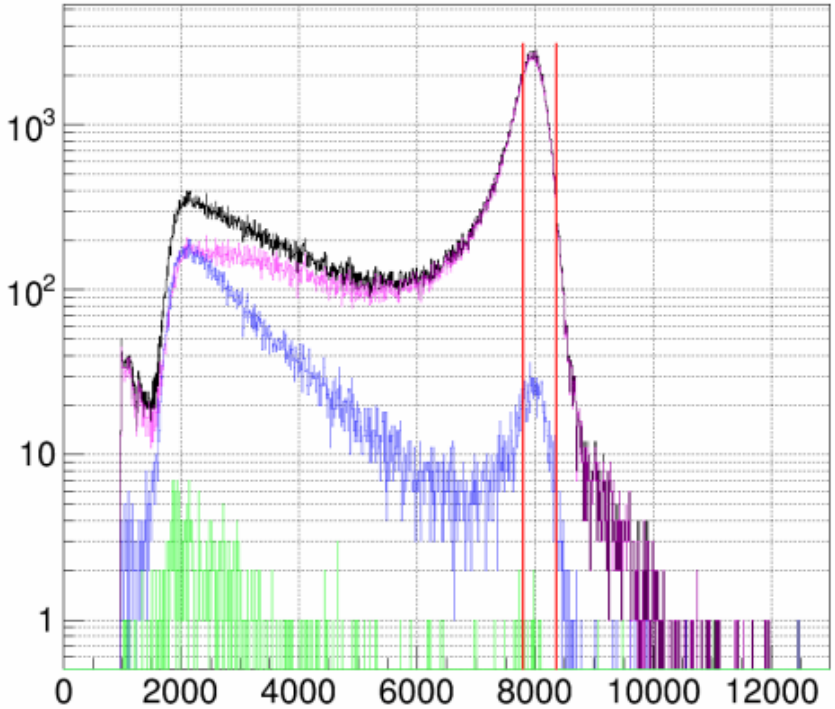
Within ToF Cut

All Events

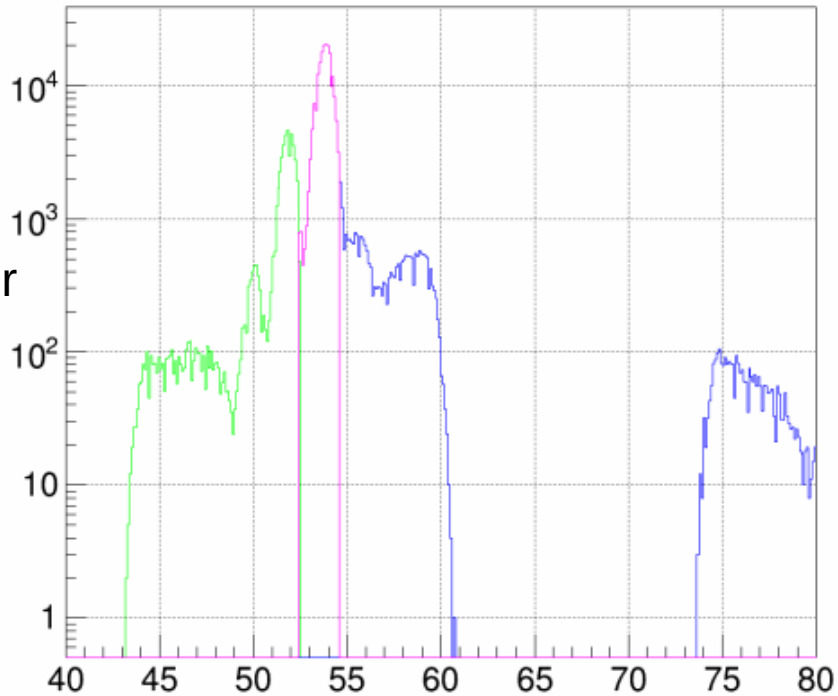
After ToF Cut

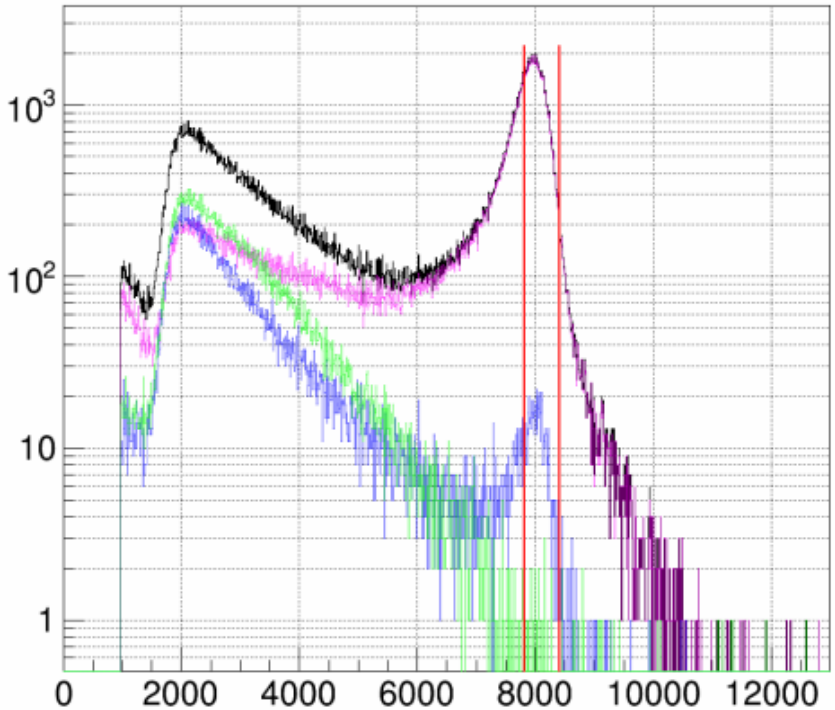
Run 8495
Left Detector
1000nm





Run 8539
Left Detector
50nm





Standard Cuts: ToF[-2 : +2] E[-0.5 : +2]

Standard Energy Cut [-0.5:+2 sigma], Varied ToF-Cut

Foil T [nm]	ToF-Cut [sigma]	% of All Events Inside ToF-Cut	% of All Events Before ToF-Cut	% of All Events After ToF-Cut	% of All Events within E-Cut and ToF-Cut	% of Events within E-Cut Before ToF-Cut	% of Events within E-cut After ToF-Cut
350	-1 : 1	75.859	0.909	23.232	32.647	0.256	12.908
50	-1 : 1	59.978	18.630	21.391	24.442	0.319	11.958
1000	-1 : 1	76.051	0.391	23.558	32.638	0.228	13.275
350	-2 : 2	88.451	0.640	10.909	37.088	0.003	1.052
50	-2 : 2	70.263	17.463	12.274	27.213	0.033	0.916
1000	-2 : 2	88.871	0.155	10.974	37.156	0.009	1.106
350	-3 : 3	90.521	0.542	8.936	38.580	0.003	0.034
50	-3 : 3	75.749	13.659	10.592	27.465	0.030	0.036
1000	-3 : 3	90.912	0.127	8.961	37.559	0.007	0.039

1000 nm = Run 8495, 350 nm = Run 8545, 50 nm = Run 8539, **LEFT Detector**

ToF-Cut [-3 : +3 sigma] Varied E-cut

Foil T [nm]	E-Cut [sigma]	% of All Events Inside ToF-Cut	% of All Events Before ToF-Cut	% of All Events After ToF-Cut	% of All Events within E-Cut and ToF-Cut	% of Events within E-Cut Before ToF-Cut	% of Events within E-cut After ToF-Cut
350	[-0.5 : +2]	90.521	0.542	8.936	38.580	0.003	0.034
50	[-0.5 : +2]	75.749	13.659	10.592	27.465	0.030	0.036
1000	[-0.5 : +2]	90.912	0.127	8.961	37.559	0.007	0.039
350	[-1 : +2]	90.521	0.542	8.936	46.095	0.005	0.037
50	[-1 : +2]	75.749	13.659	10.592	32.993	0.033	0.037
1000	[-1 : +2]	90.912	0.127	8.961	45.092	0.008	0.038
350	[-2 : +2]	90.521	0.542	8.936	54.197	0.006	0.053
50	[-2 : +2]	75.749	13.659	10.592	39.230	0.043	0.063
1000	[-2 : +2]	90.912	0.127	8.961	53.514	0.009	0.049
350	[0 : +2]	90.521	0.542	8.936	28.181	0.003	0.032
50	[0 : +2]	75.749	13.659	10.592	20.036	0.036	0.030
1000	[0 : +2]	90.912	0.127	8.961	27.416	0.008	0.035

1000 nm = Run 8495, 350 nm = Run 8545, 50 nm = Run 8539, **LEFT Detector**

Run 8545, 350 nm Foil, **LEFT**, Various ToF and E-Cuts

ToF-Cut [Sigma]	E-Cut [Sigma]	% of All Events Inside ToF-Cut	% of All Events Before ToF-Cut	% of All Events After ToF-Cut	% of All Events within E-Cut and ToF-Cut	% of Events within E-Cut Before ToF-Cut	% of Events within E-cut After ToF-Cut
[-1 : +1]	[-0.5 : +2]	75.859	0.909	23.232	32.647	0.256	12.908
[-2 : +2]	[-0.5 : +2]	88.451	0.640	10.909	37.088	0.003	1.052
[-3 : +3]	[-0.5 : +2]	90.521	0.542	8.936	38.580	0.003	0.034
[-1 : +1]	[-1 : +2]	75.859	0.909	23.232	39.186	0.253	12.652
[-2 : +2]	[-1 : +2]	88.451	0.640	10.909	44.494	0.005	1.015
[-3 : +3]	[-1 : +2]	90.521	0.542	8.936	46.095	0.005	0.037
[-1 : +1]	[-2 : +2]	75.859	0.909	23.232	46.443	0.263	12.577
[-2 : +2]	[-2 : +2]	88.451	0.640	10.909	52.796	0.006	1.005
[-3 : +3]	[-2 : +2]	90.521	0.542	8.936	54.197	0.006	0.053
[-1 : +1]	[0 : +2]	75.859	0.909	23.232	23.809	0.256	13.114
[-2 : +2]	[0 : +2]	88.451	0.640	10.909	27.031	0.003	1.044
[-3 : +3]	[0 : +2]	90.521	0.542	8.936	28.181	0.003	0.032

Thoughts...