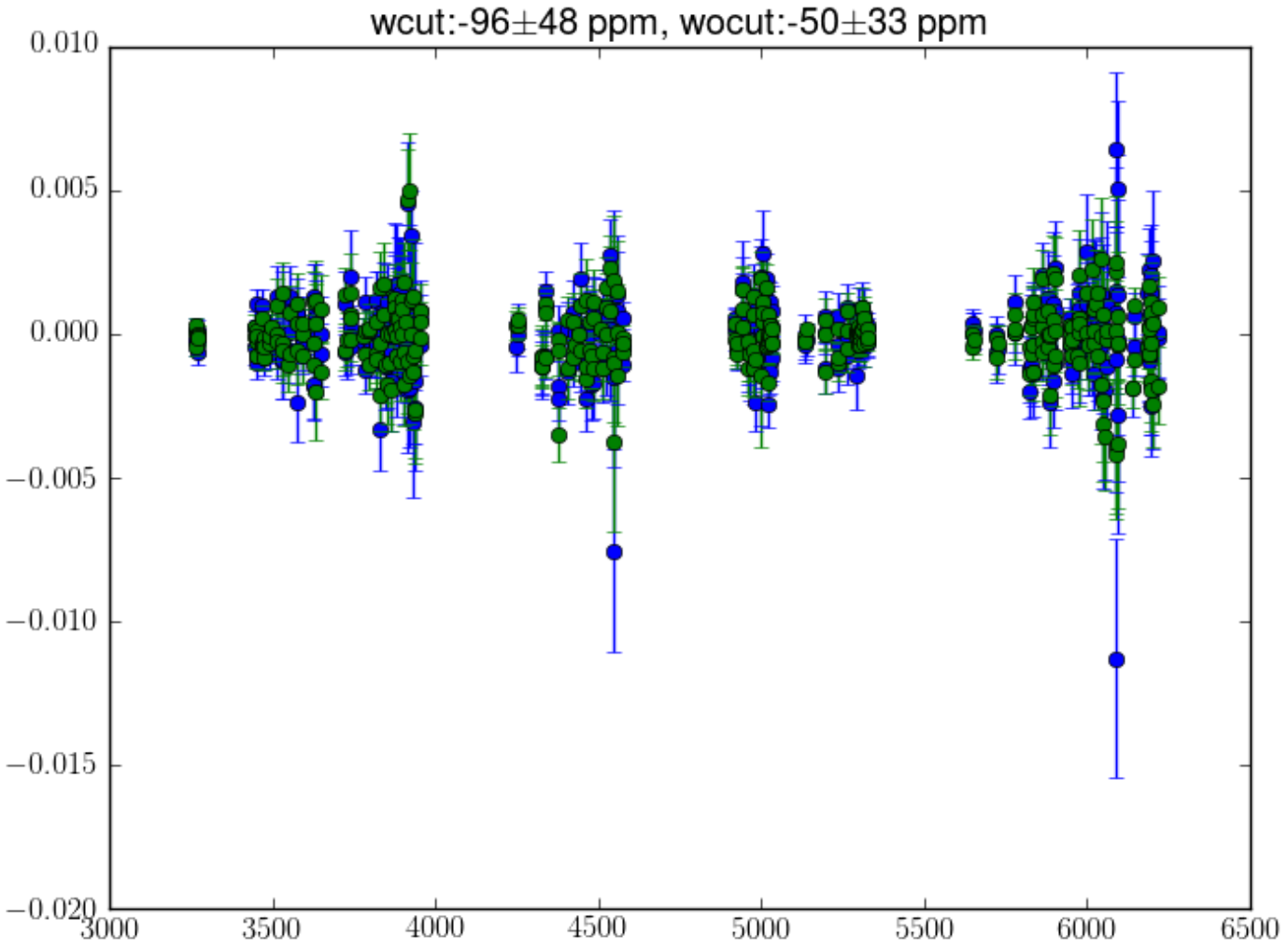
False asymmetry

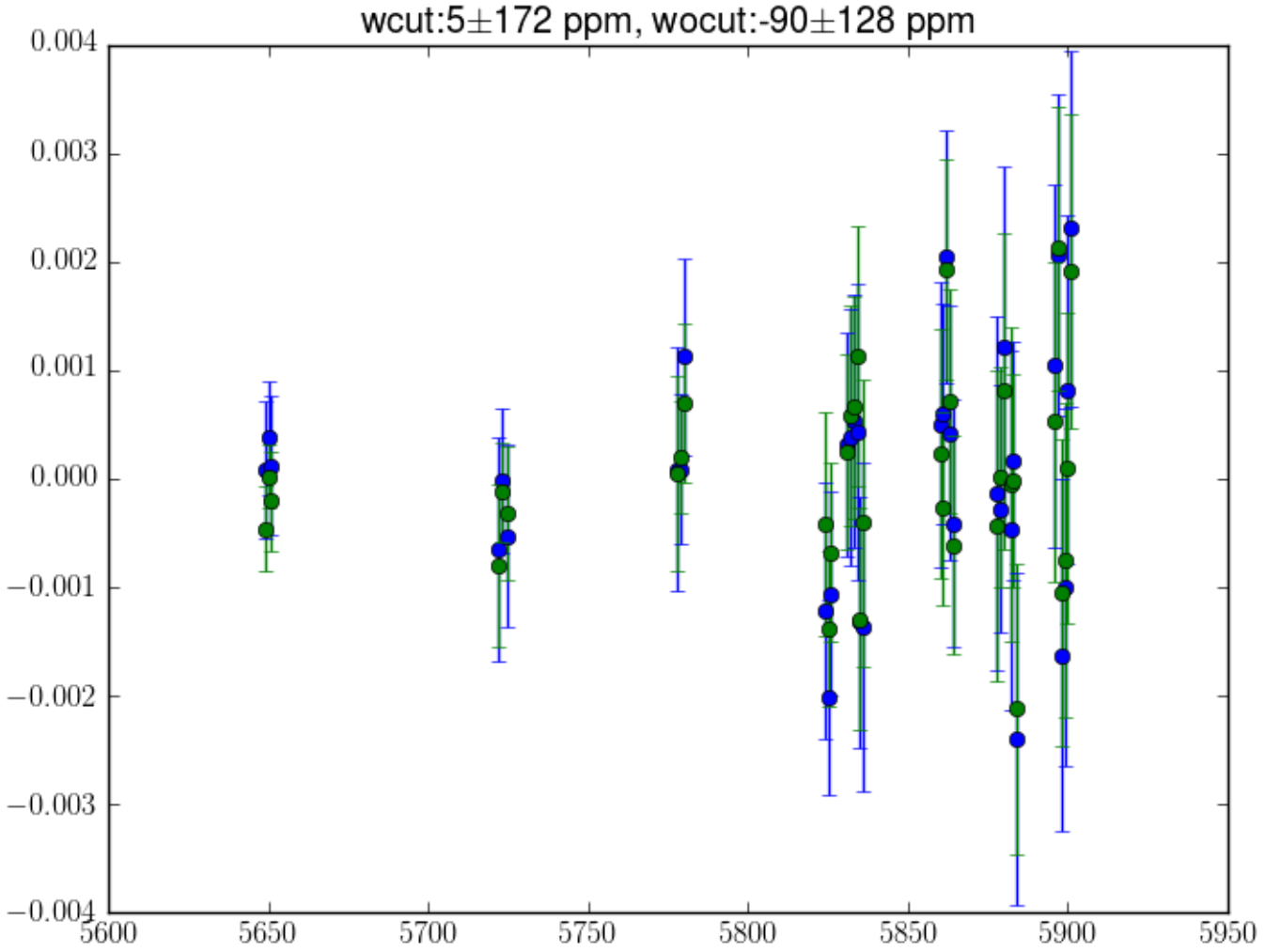
Pengjia Zhu



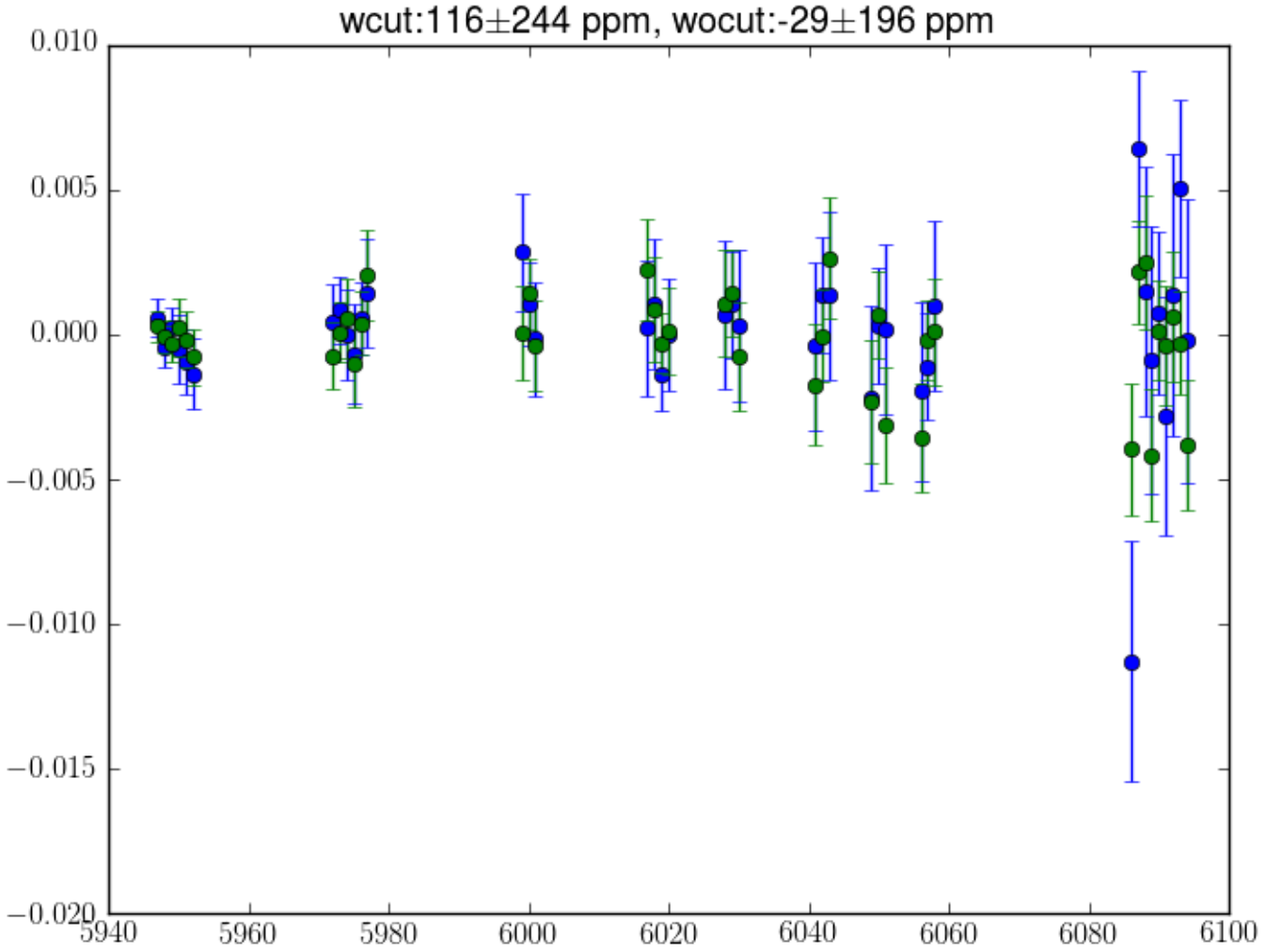
False asymmetry for whole run period

Green: without detector cut
Blue: with detector cut

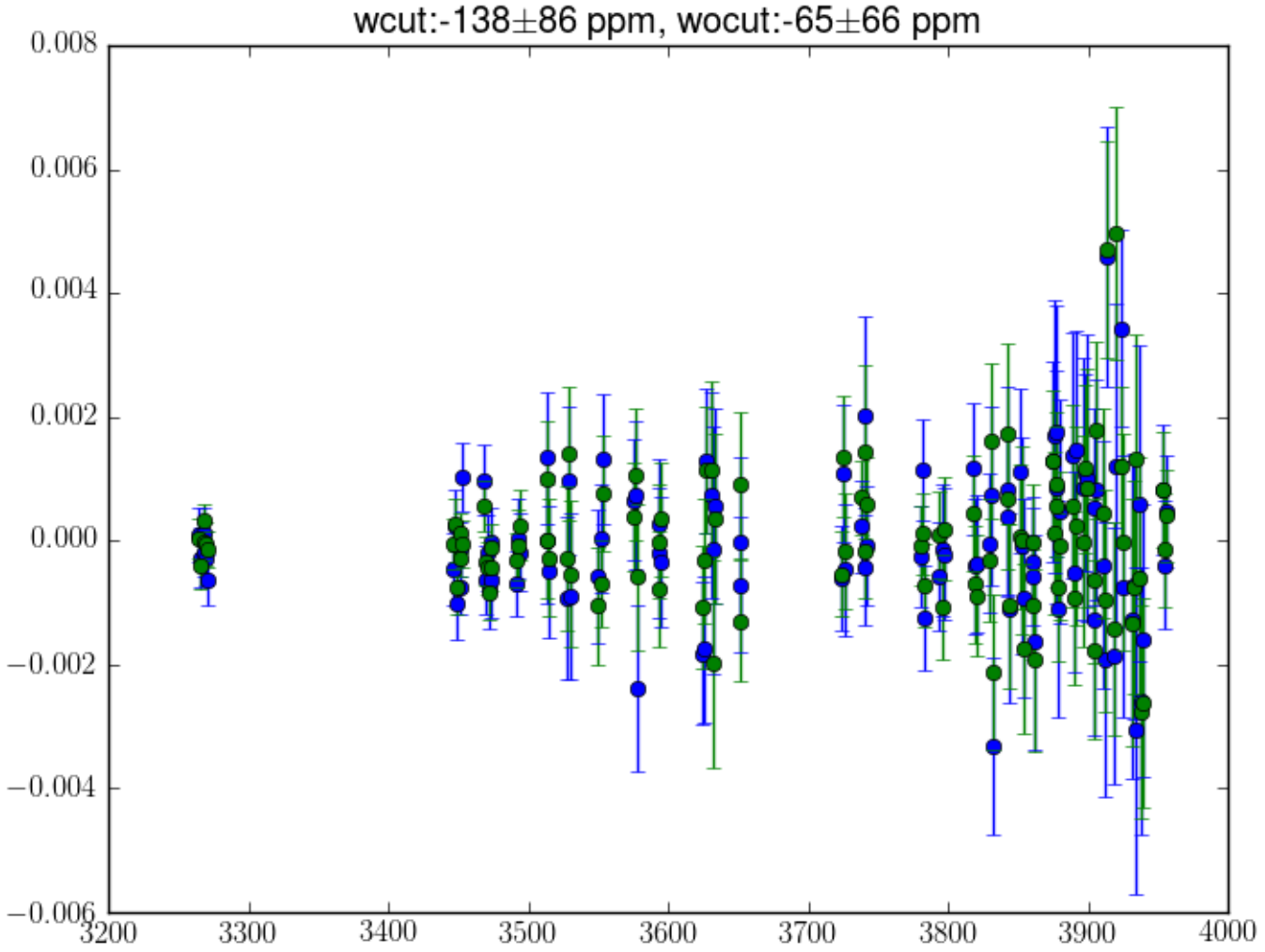
Asymmetry between:
pevents*prescale/(pcharge*plive)
mevents*prescale/(mcharge*mlive)



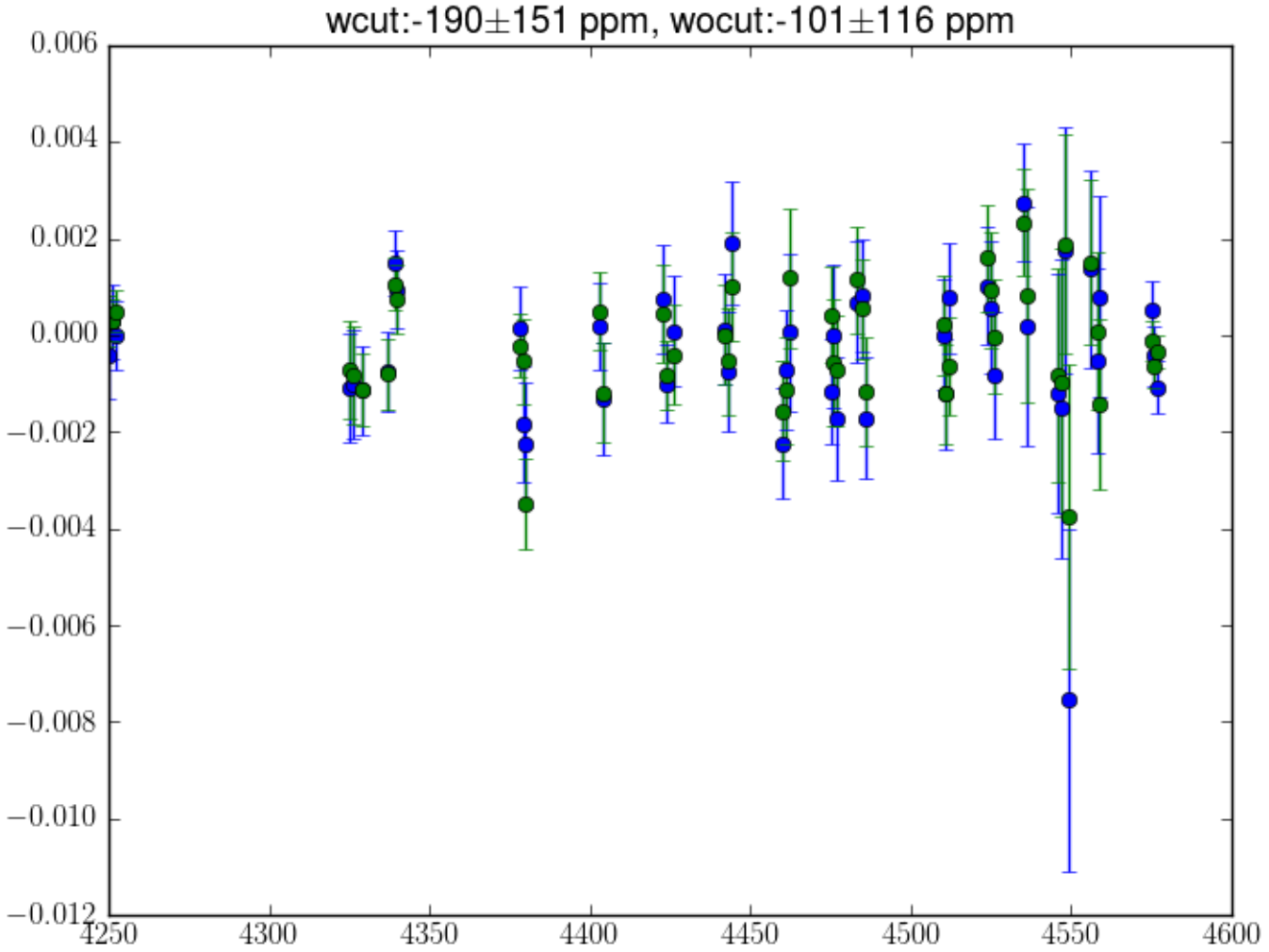
2.2GeV 5T Longitudinal



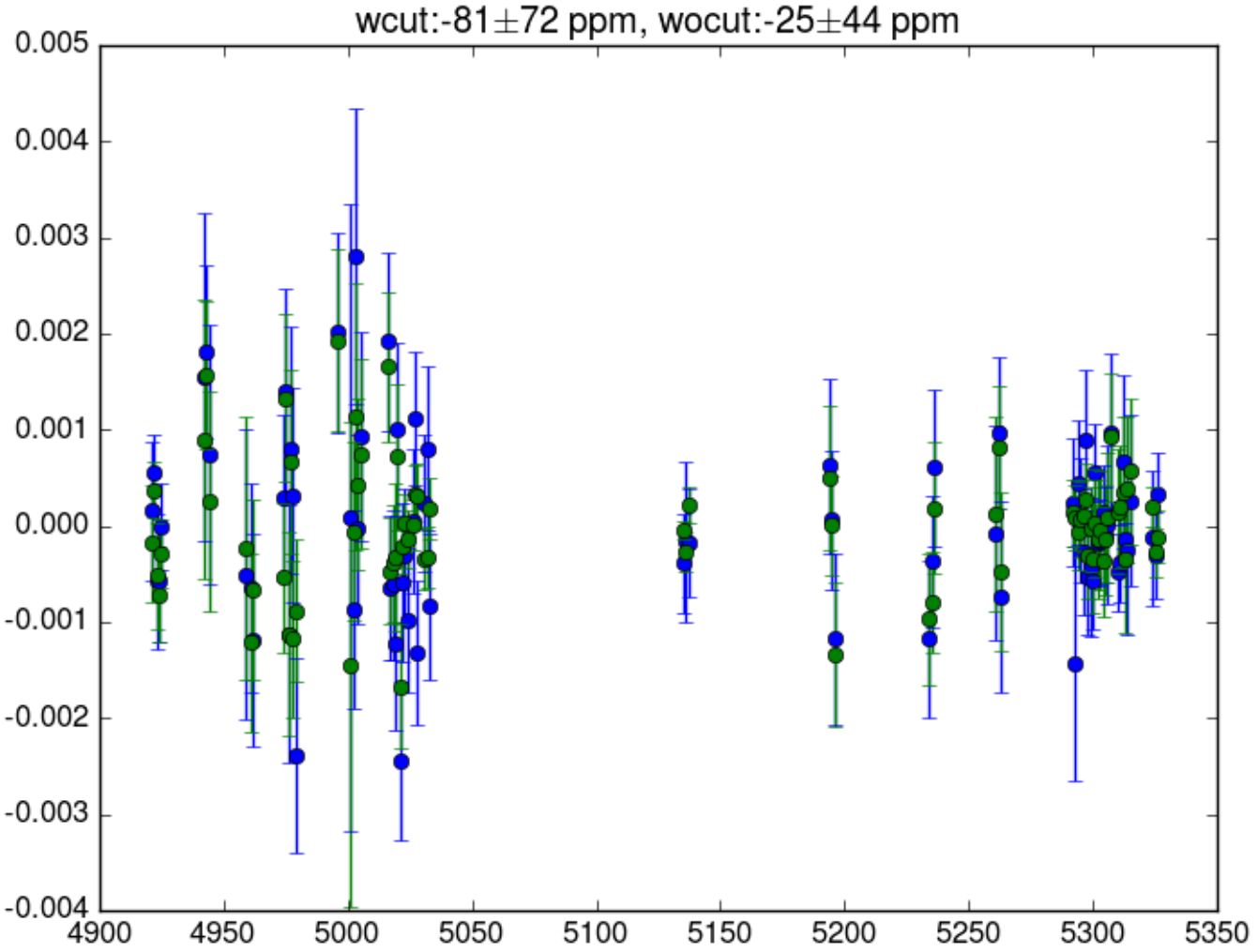
2.2GeV 5T Transverse



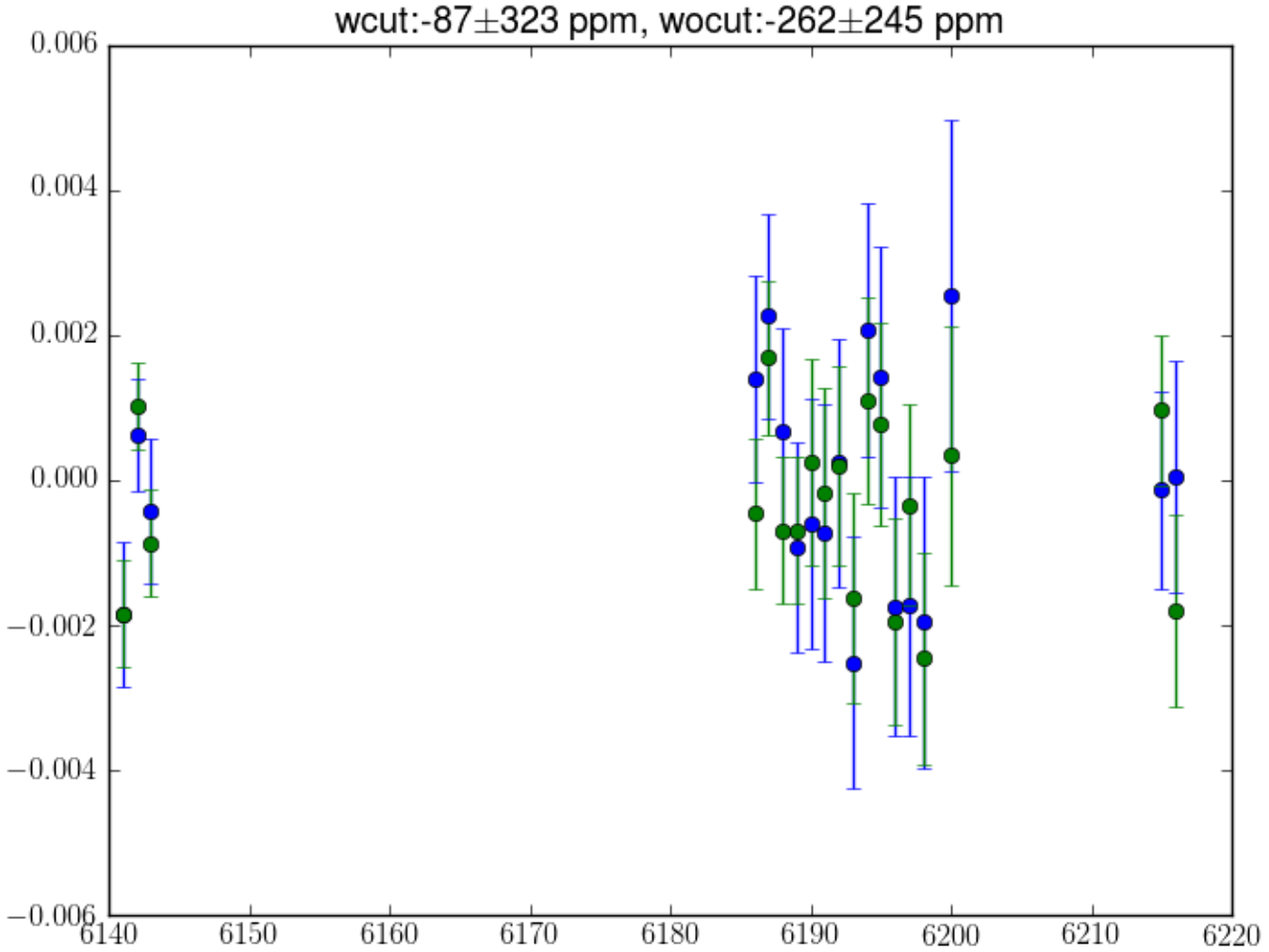
2.2GeV 2.5T Transverse



1.7GeV 2.5T Transverse



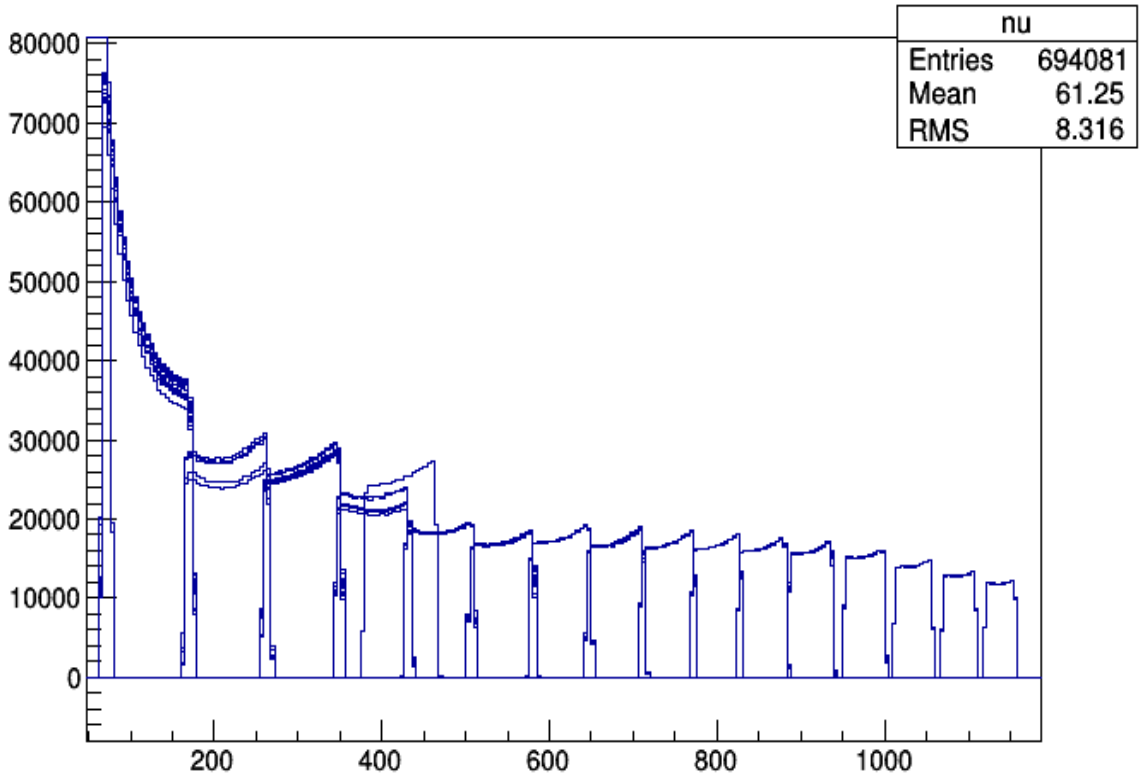
1.1GeV 2.5T Transverse



3.3GeV 5T Transverse

Other job ongoing: Yield check for 1.7GeV, 2.5T

https://hallaweb.jlab.org/wiki/index.php/G2p_1711_25T



HRS Momentum (MeV)	Material #	Spread (%)	Runs	Events (M)
1031	7	1.00	14	88.4
1031	8	0.17	2	2.4
1097	7	0.81	13	89.6
1167	8	1.73	18	111.2
1241	8	0.89	19	126.4
1287	8	0.00	1	2.4
1320	8	7.86	19	116.0
1405	8	4.97	20	136.0
1494	8	14.57	6	19.0
1589	7	5.12	21	144.2
1590	8	0.85	3	3.1
1691	7	1.44	3	5.5
1691	8	0.00	1	7.0
572	8	0.15	5	29.4
622	8	0.68	6	35.4
676	8	0.48	6	38.2
735	8	0.49	9	51.8
798	8	0.52	13	80.7
856	8	0.48	10	65.1
911	8	0.16	10	70.1
969	7	0.58	15	100.6

HRS Momentum: 1320MeV

Difference for 4565,4566:

Larger slow raster
Lower dead time
Larger prescale setting

More Detail need to continue