

DVCS charge normalized yield

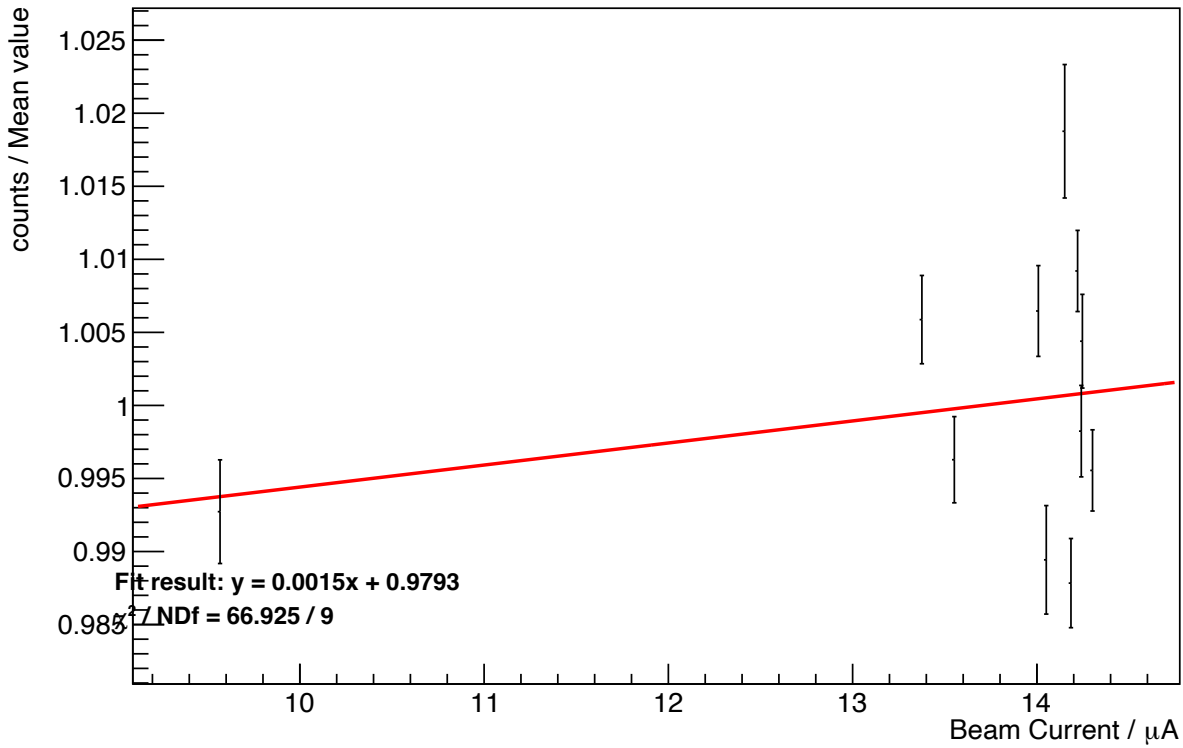
- Only ps6 production good runs
- Cluster time window: $145 < clusT < 155$
- DVCS event selection: Good timing & $E_{max} > 2.0$
- Using the correct clusters:
 - First “nclust” values in the array
 - Ignore nclust=0 events
- Ignored clusters centered at columns with bad blocks

Kinc_x50_2

DVCS charge normalized yield vs. Beam current

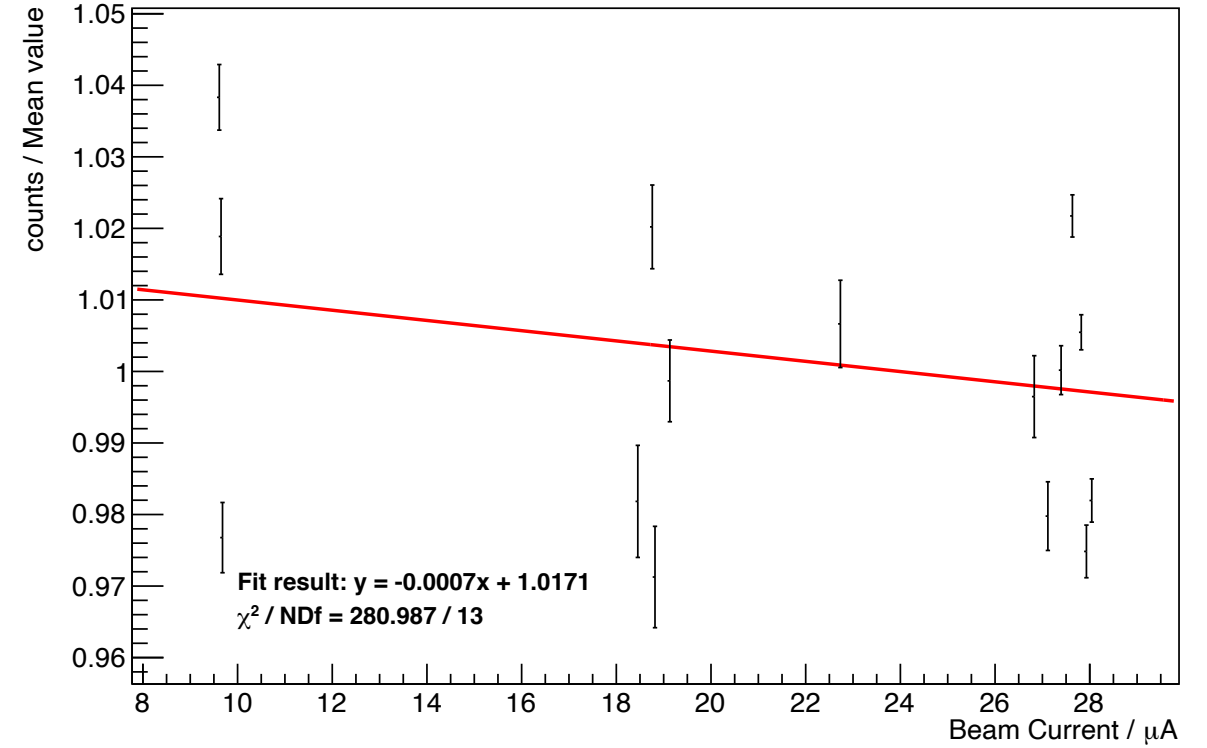
Kinc_x50_2

Charge normalized DVCS events(LD2) / Mean value



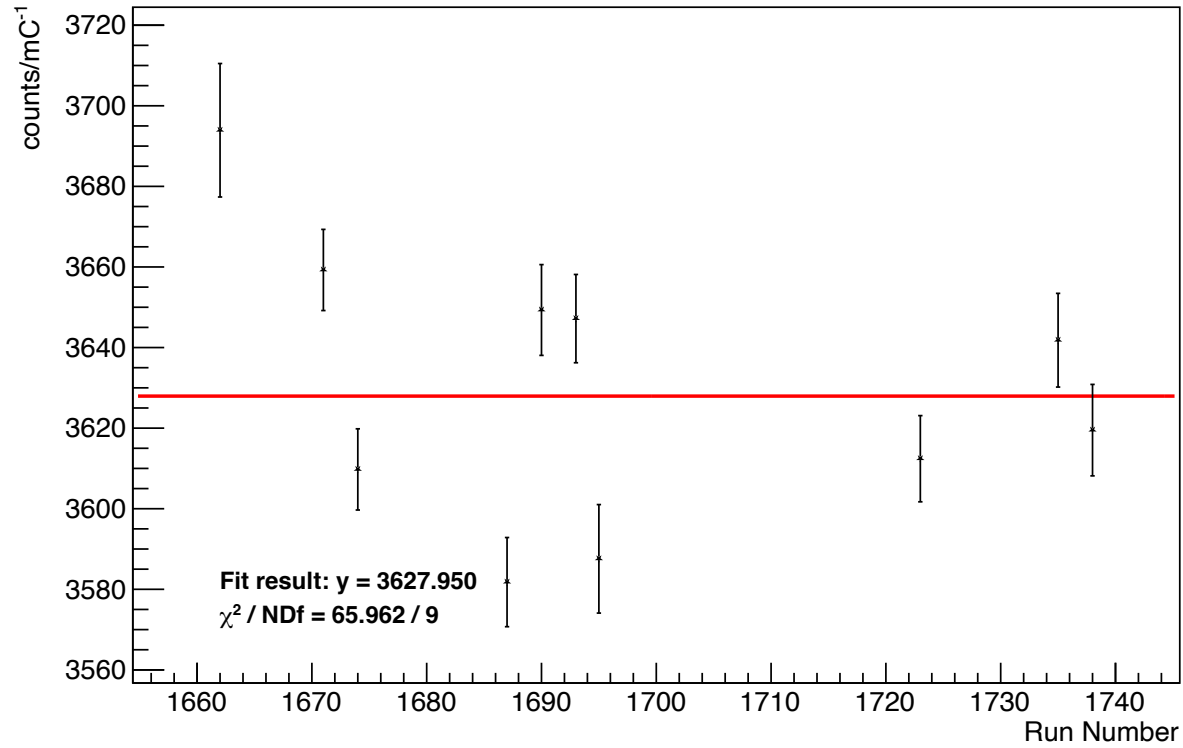
LD2

Charge normalized DVCS events(LH2) / Mean value



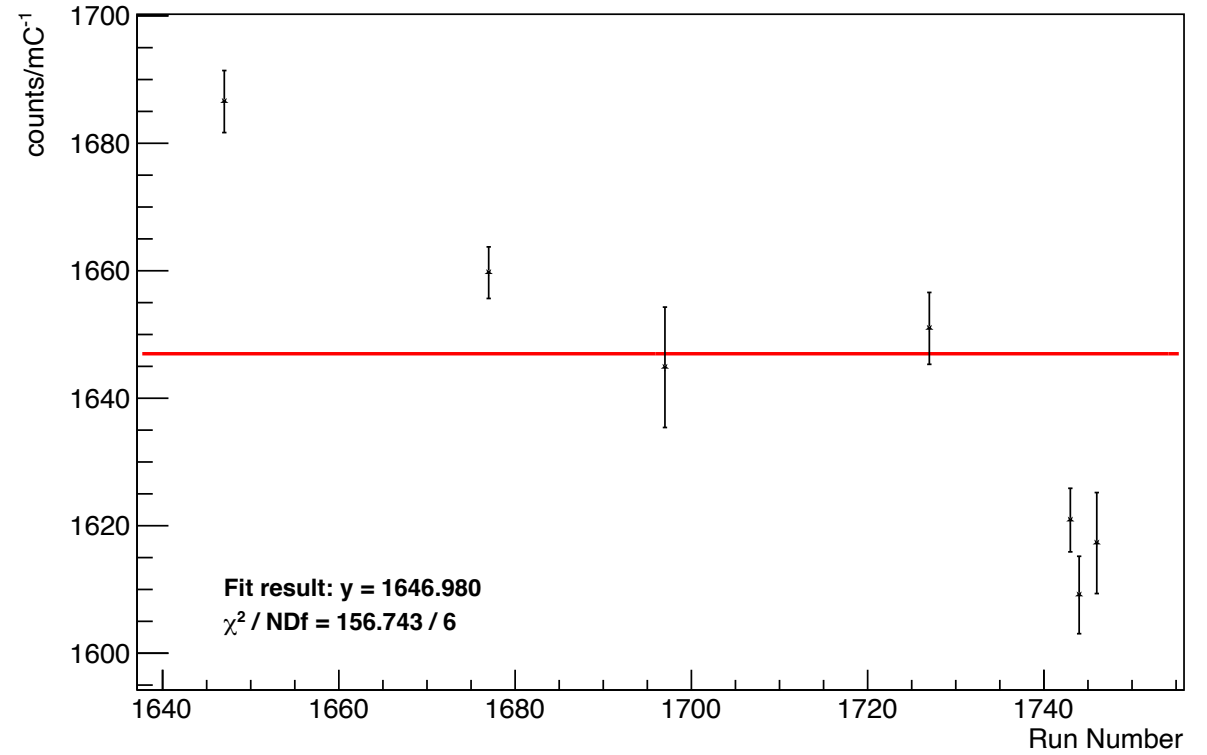
LH2

Charge normalized DVCS events(LD2)



LD2 14 μA

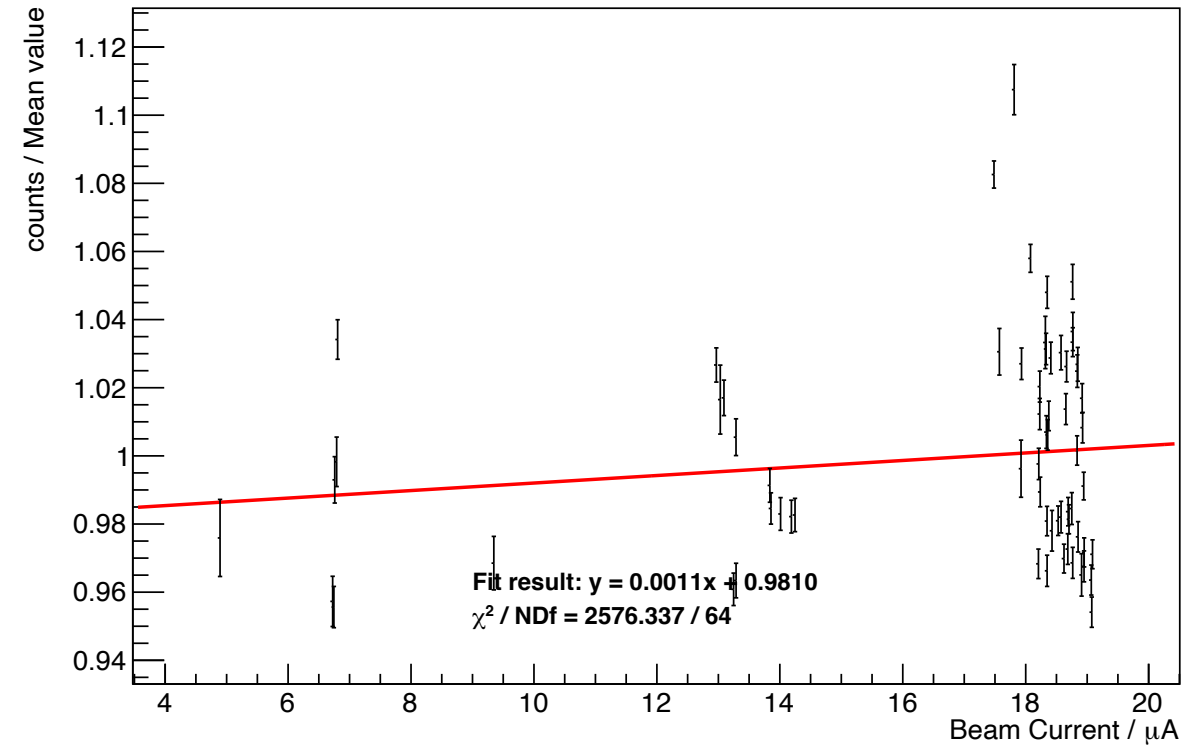
Charge normalized DVCS events(LH2)



LH2 27 μA

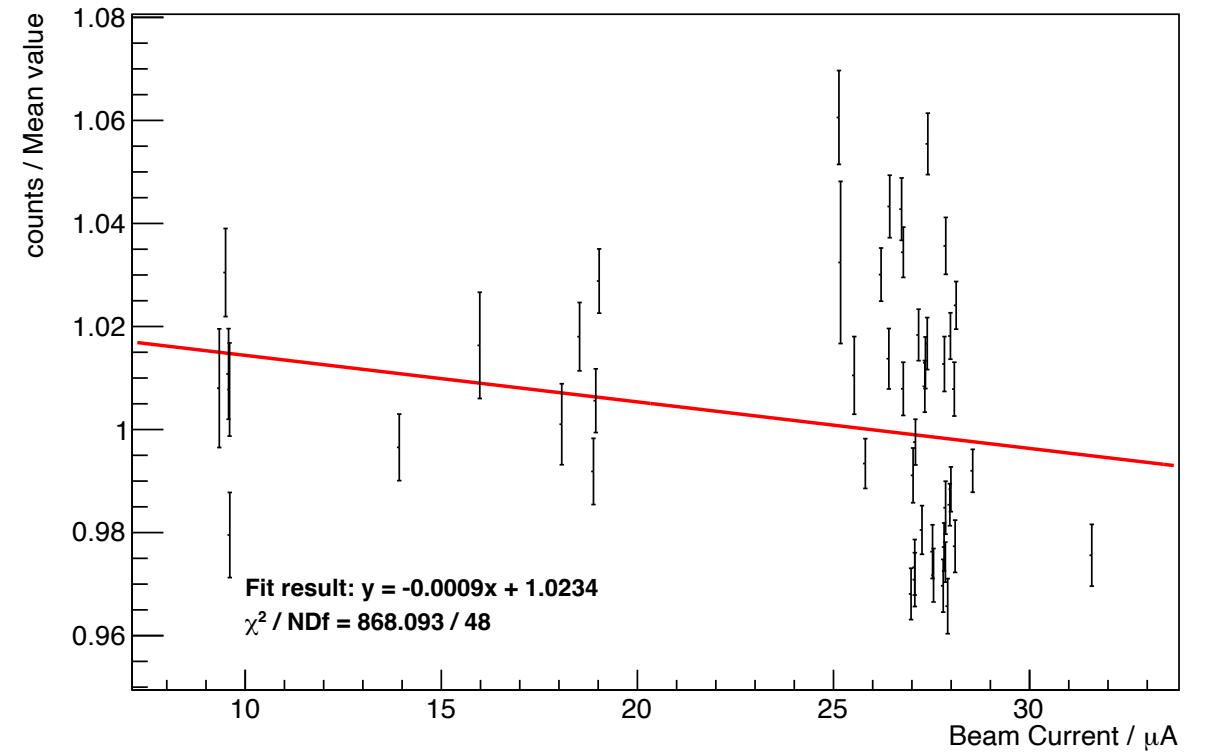
Kinc_x60_3

Charge normalized DVCS events(LD2) / Mean value



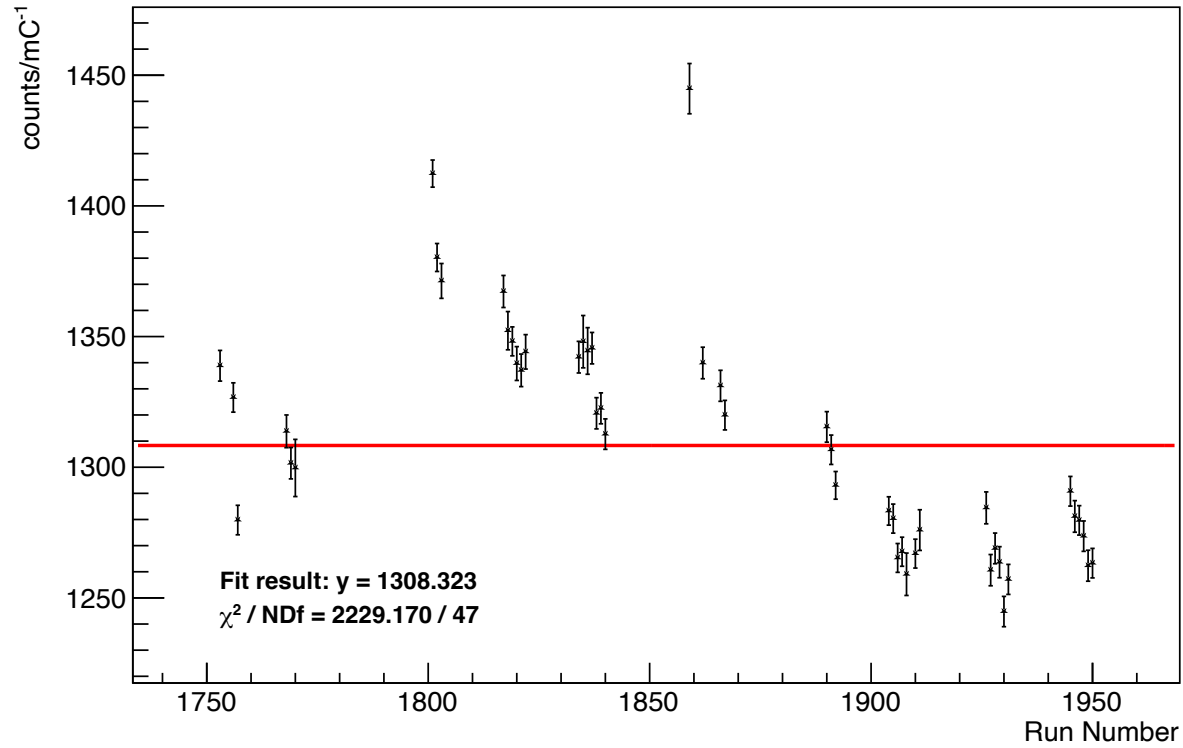
LD2

Charge normalized DVCS events(LH2) / Mean value



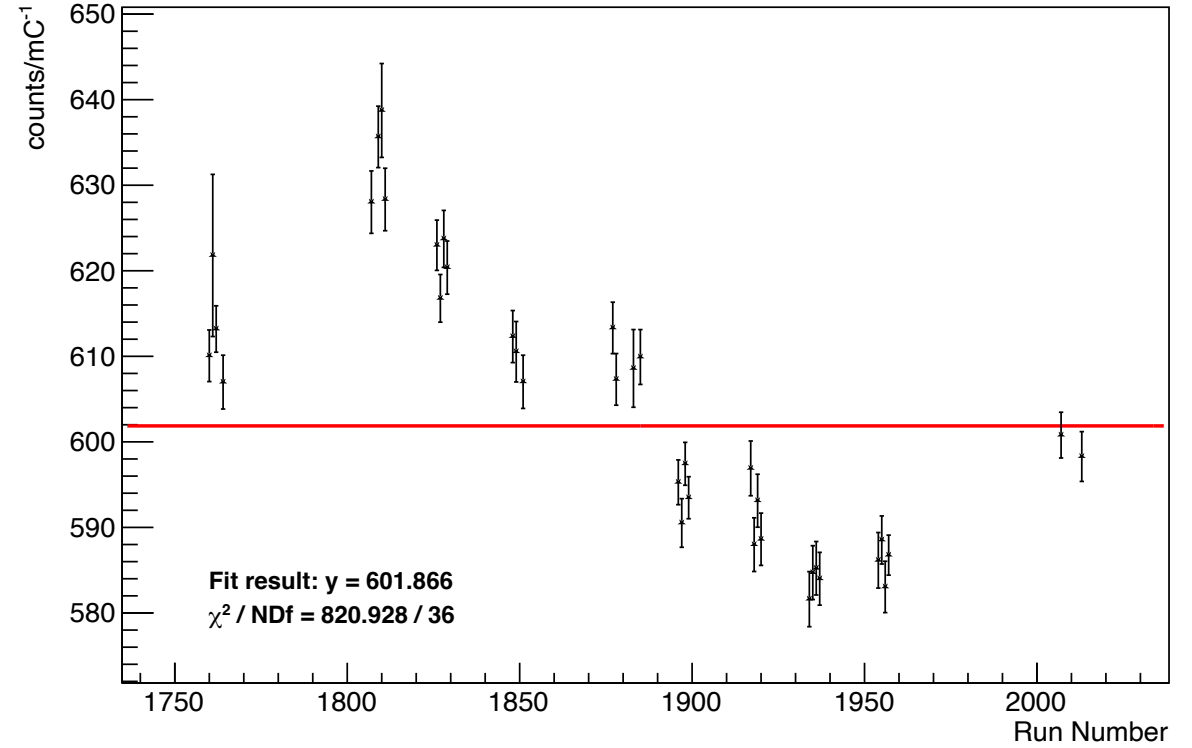
LH2

Charge normalized DVCS events(LD2)



LD2 19 μA

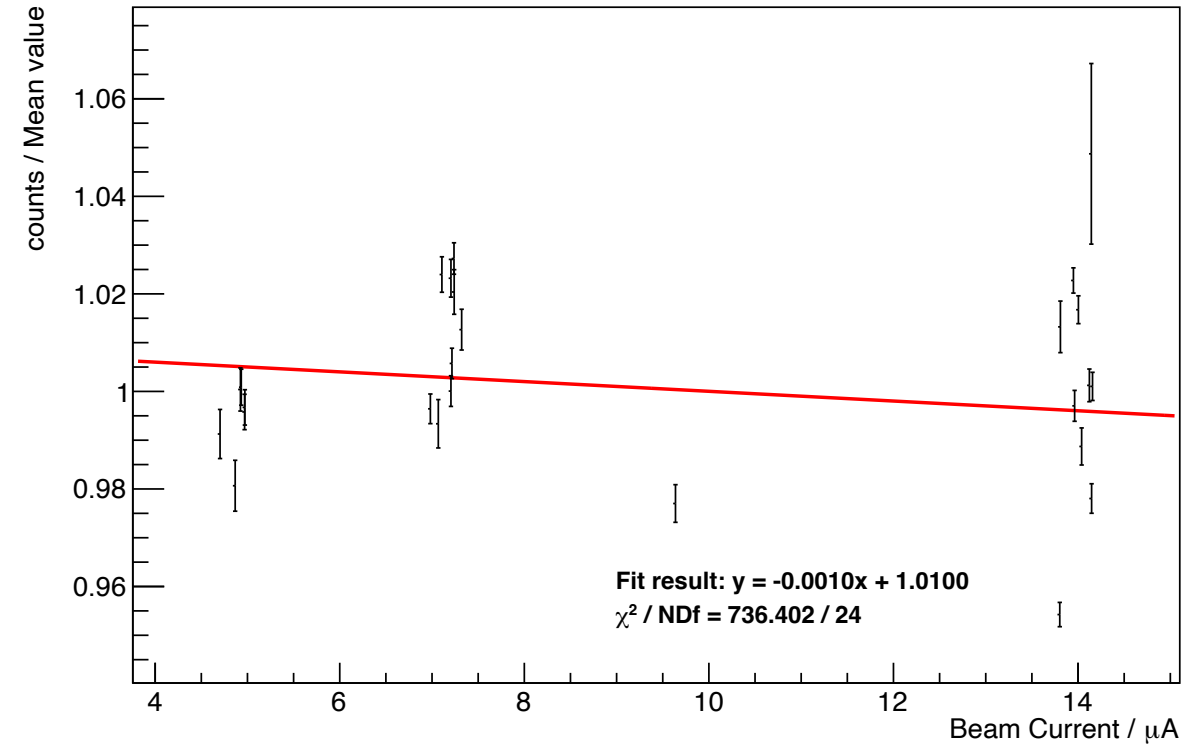
Charge normalized DVCS events(LH2)



LH2 27 μA

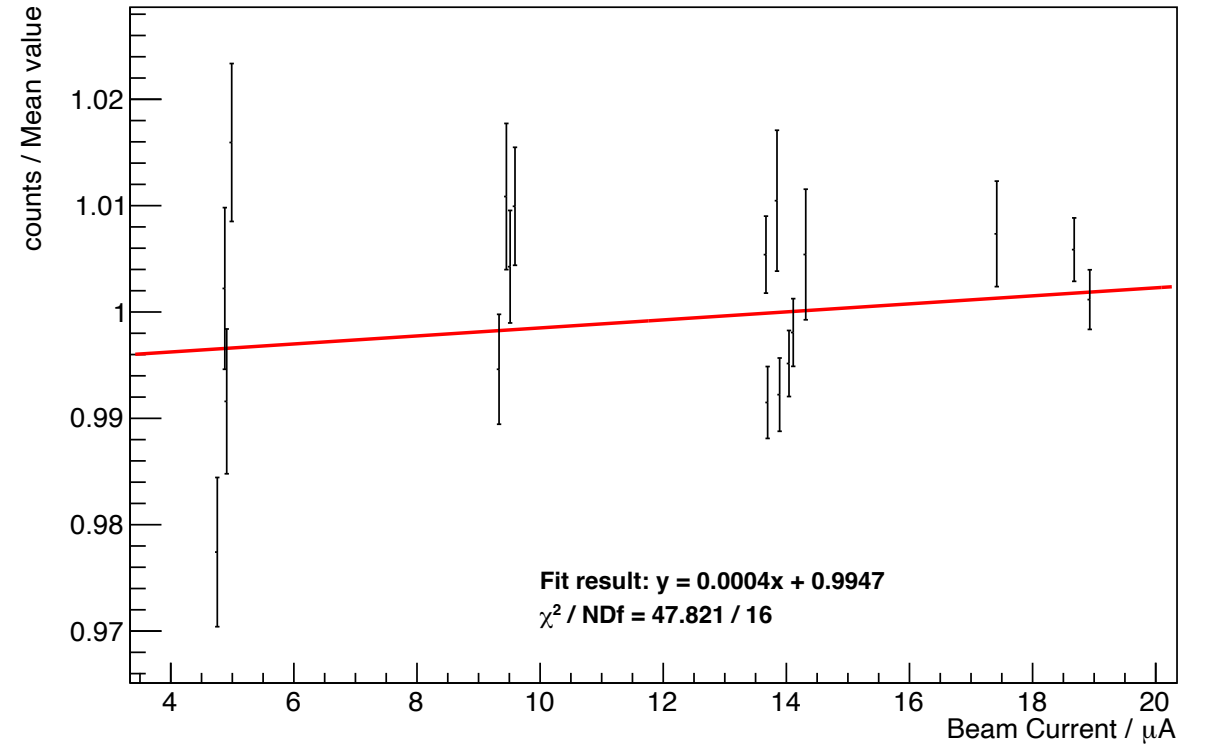
Kinc_x36_3

Charge normalized DVCS events(LD2) / Mean value



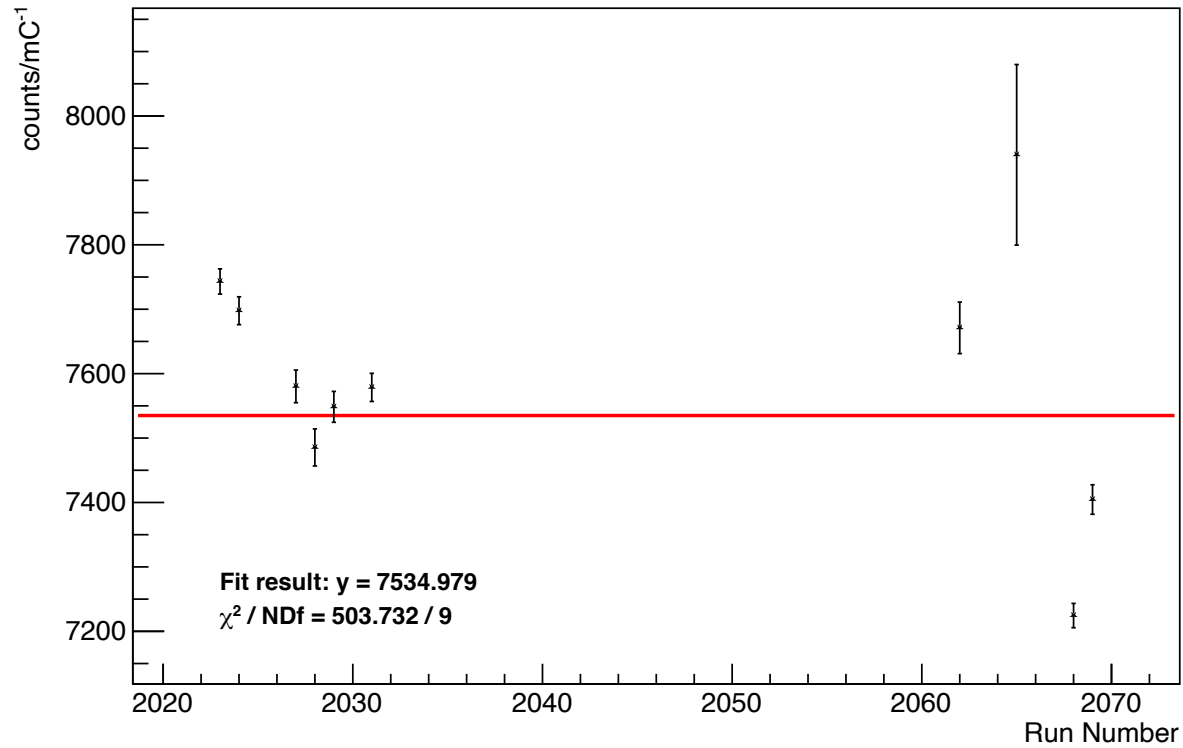
LD2

Charge normalized DVCS events(LH2) / Mean value



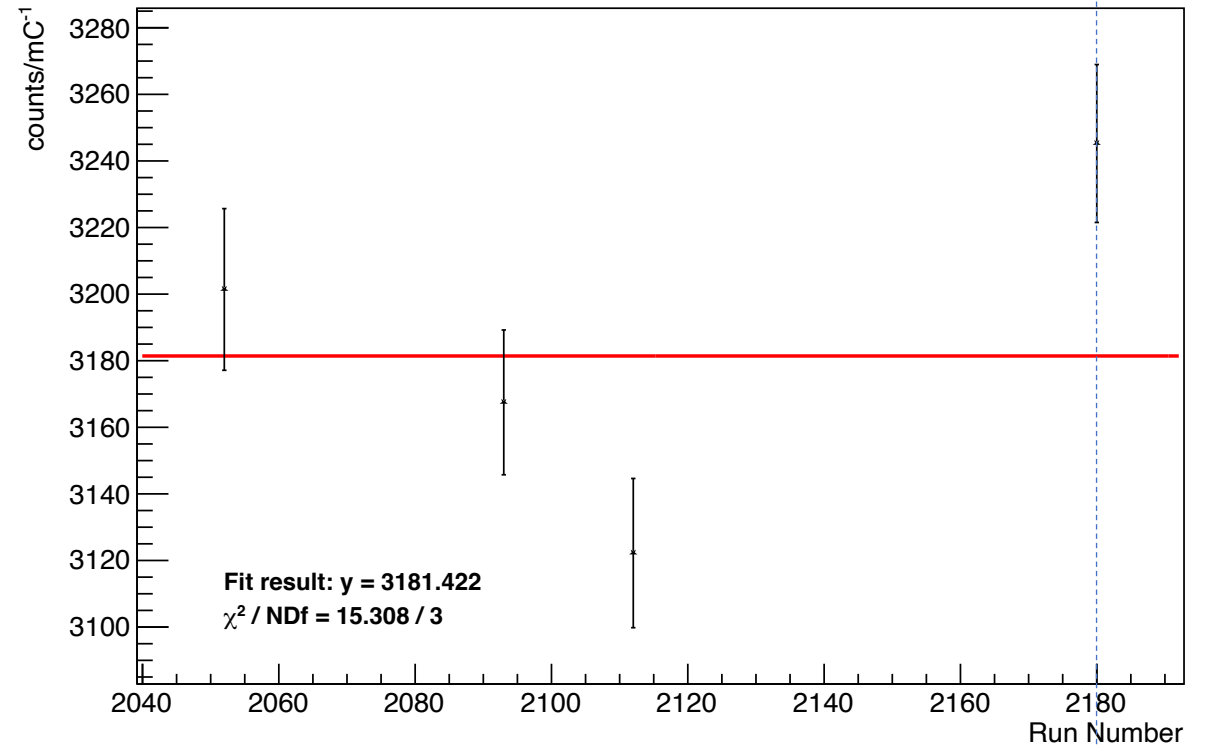
LH2

Charge normalized DVCS events(LD2)



LD2 14 μA

Charge normalized DVCS events(LH2)



LH2 5 μA

Lower Threshold

Threshold change

2077	junk	32.261	7.5	0	0	1	LD2	ps3=3	End of run coda error
2078	junk	32.261	7.5	0	1209980	10.82	LD2	ps3=4	Clust pair thresh = 750MeV, clust read thresh = 400MeV
2079	efficiency	32.261	7.22	8.82	2449014	22.08	LD2	ps3=4	Clust pair thresh = 750MeV, clust read thresh = 400MeV
2080	efficiency	32.261	7.18	8.44	2373448	26.57	LD2	ps3=4	Clust pair thresh = 750MeV, clust read thresh = 400MeV
2081	junk	32.261	4.96	0	26613	0	LD2	ps6=1	Clust pair thresh = 750MeV, clust read thresh = 400MeV
2082	production	32.261	4.89	7.72	1511128	36.26	LD2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 400MeV
2083	junk	32.261	7.37	0	33418	0	LD2	ps6=1	Sparse Off, Clust pair thresh = 750MeV, clust read thresh = 400MeV
2084	junk	32.261	5	0	0	4	LD2	ps6=1	End of run coda error
2085	production	32.261	7.13	6.22	1720139	15.58	LD2	ps6=3	Sparse Off, Clust pair thresh = 750MeV, clust read thresh = 400MeV
2086	production	32.261	7.16	8.36	2316560	20.27	LD2	ps6=4	Sparse Off, Clust pair thresh = 750MeV, clust read thresh = 400MeV
2087	production	32.261	7.16	6.54	1815559	17.34	LD2	ps6=5	Sparse Off, Clust pair thresh = 750MeV, clust read thresh = 400MeV
2088	production	32.261	13.8	20.13	1401195	27.46	dummy	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 400MeV
2089	production	32.261	7.2	12.59	511654	31.77	dummy	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2090	production	32.261	13.69	30.54	2426757	49.66	LH2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2091	production	32.261	14.06	36.08	2846945	46.81	LH2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2092	production	32.261	9.55	12.55	713316		LH2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2093	production	32.261	4.89	6.97	279996	24.68	LH2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2094	efficiency	32.261	14.02	16.13	1301496	21.21	LH2	ps3=2	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2095	production	32.261	13.95	11.33	894704	14.27	LH2	ps6=0	Sparse Off, Clust pair thresh = 750MeV, clust read thresh = 500MeV
2096	production	32.261	7.15	17.1	4826644	43.83	LD2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2097	production	32.261	7.21	17.39	4921021	42.83	LD2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2098	production	32.261	6.95	18.1	4991936	49.76	LD2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2099	production	32.261	6.99	18.12	4934086	45.46	LD2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV

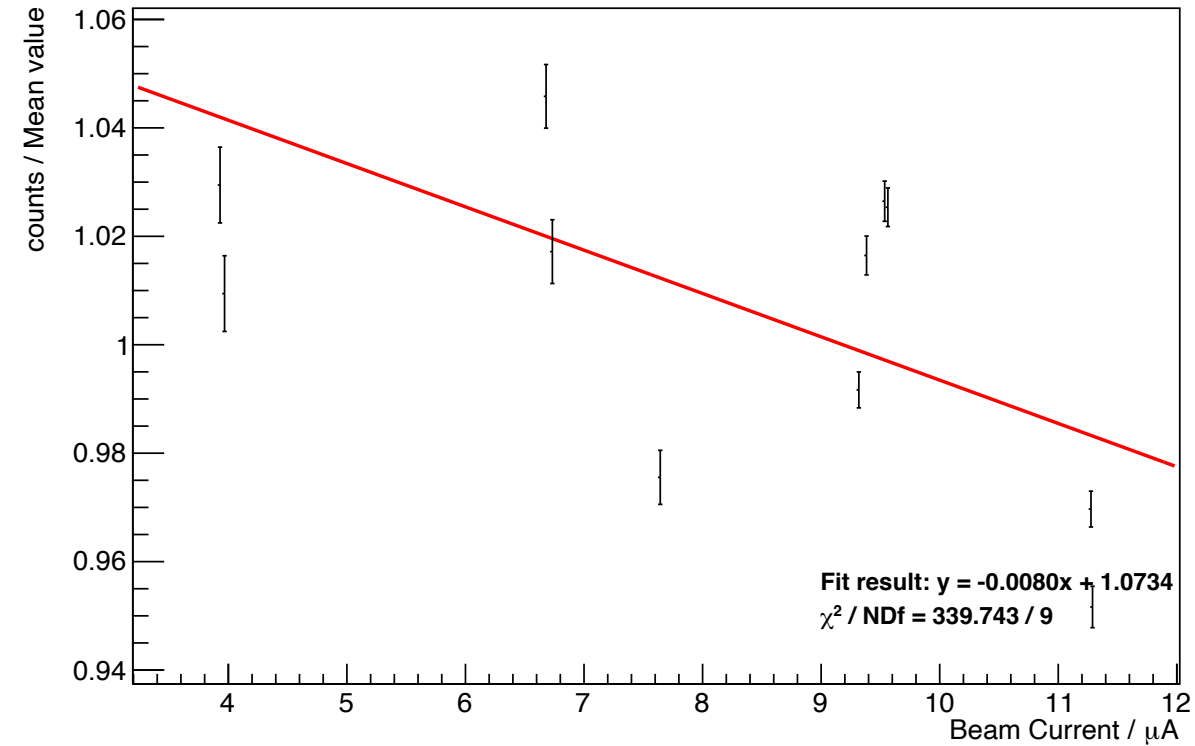
2164	production	32.261	4.91	8.06	1680920	27.36	LD2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2165	junk	32.261					LD2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2166	junk	32.261					LD2	ps3=4	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2167	junk	32.261					LD2	ps3=2	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2168	efficiency	32.261	7.25	12.23	3668241	31.3	LD2	ps3=3	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2169	junk	32.261					LD2	ps3=2	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2170	production	32.261	4.81	5.87	3108820	28.66	LD2	ps6=1	Clust pair thresh = 140MeV, clust read thresh = 140MeV
2171	junk	32.261	7.04	0	317909	2.7	LD2	ps6=1	Sparse Off, Clust pair thresh = 750MeV, clust read thresh = 500MeV
2172	production	32.261	6.98	6.88	2351678	72.31	LD2	ps6=3	Sparse Off, Clust pair thresh = 750MeV, clust read thresh = 500MeV
2173	production	32.261	25.13	30.73	4600602	26.2	dummy	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2174	production	32.261	14.35	16.7	1239452	20.77	dummy	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2175	production	32.261	14.19	32.96	2827537	41.27	LH2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2176	production	32.261	14.28	33.16	2829960	41.59	LH2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2177	efficiency	32.261	14.02	17.09	1452161	21.92	LH2	ps3=4	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2178	production	32.261	14.24	8.64	730695	10.83	LH2	ps6=4	Sparse Off, Clust pair thresh = 750MeV, clust read thresh = 500MeV
2179	production	32.261	9.53	11.34	805018	31.87	LH2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2180	production	32.261	4.98	6.01	319340	20.6	LH2	ps6=0	Clust pair thresh = 750MeV, clust read thresh = 500MeV
2181	production	32.261	4.96	2.65	531059	18.89	LH2	ps6=0	Clust pair thresh = 140MeV, clust read thresh = 140MeV
2182	production	32.261	18.45	43	4771519	46.16	LH2	ps6=0	Clust pair thresh = 140MeV, clust read thresh = 140MeV
2183	production	32.261	18.78	48.87	5319689	49.02	LH2	ps6=0	Clust pair thresh = 140MeV, clust read thresh = 140MeV

Kinc_x36_5

DVCS charge normalized yield vs. Beam current

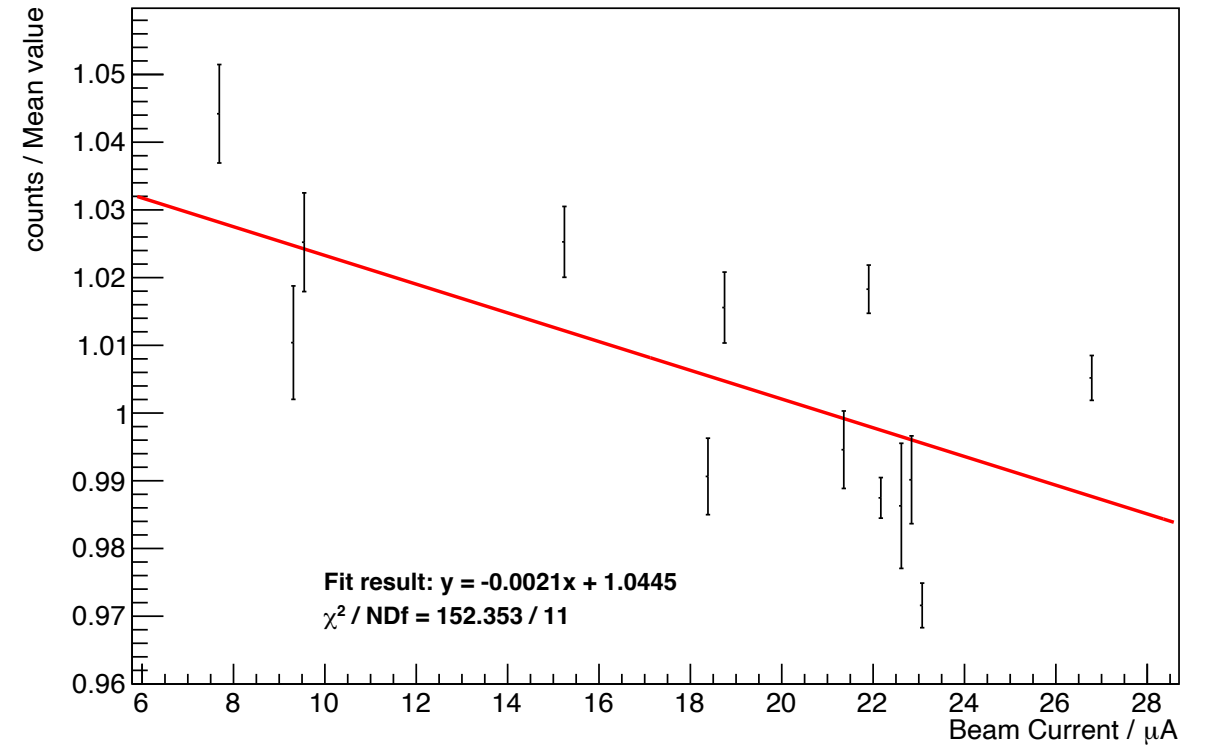
Kinc_x36_5

Charge normalized DVCS events(LD2) / Mean value



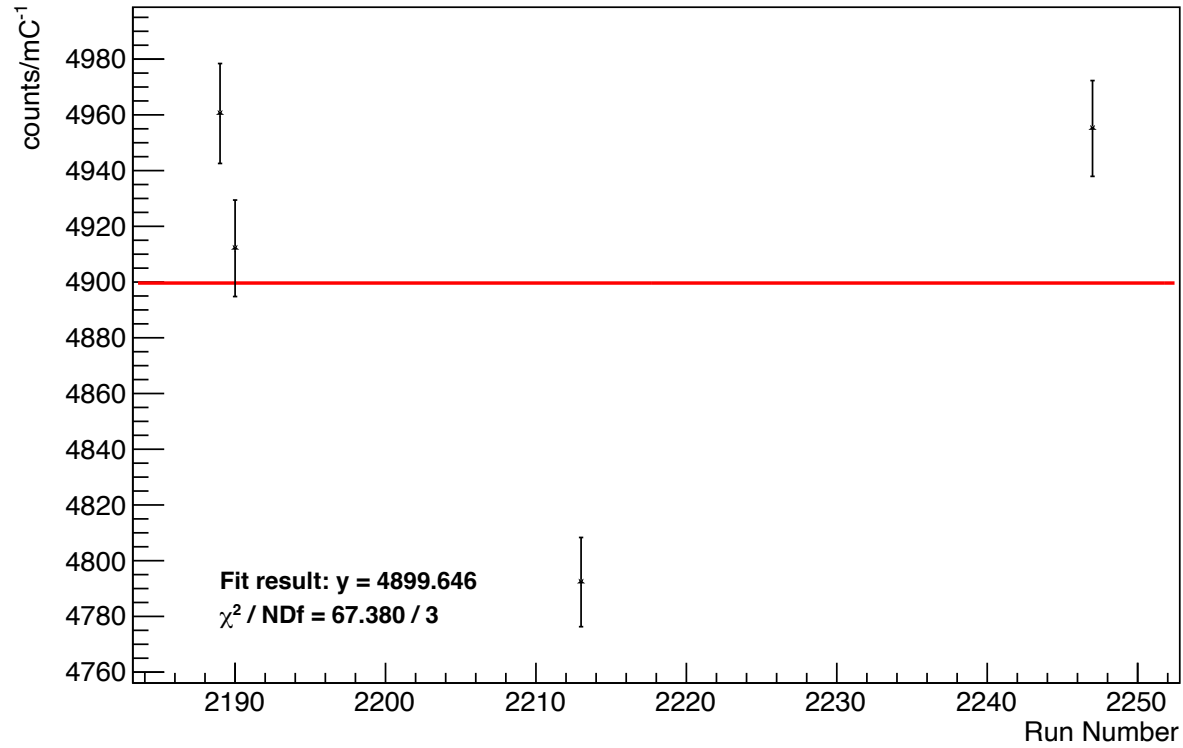
LD2

Charge normalized DVCS events(LH2) / Mean value



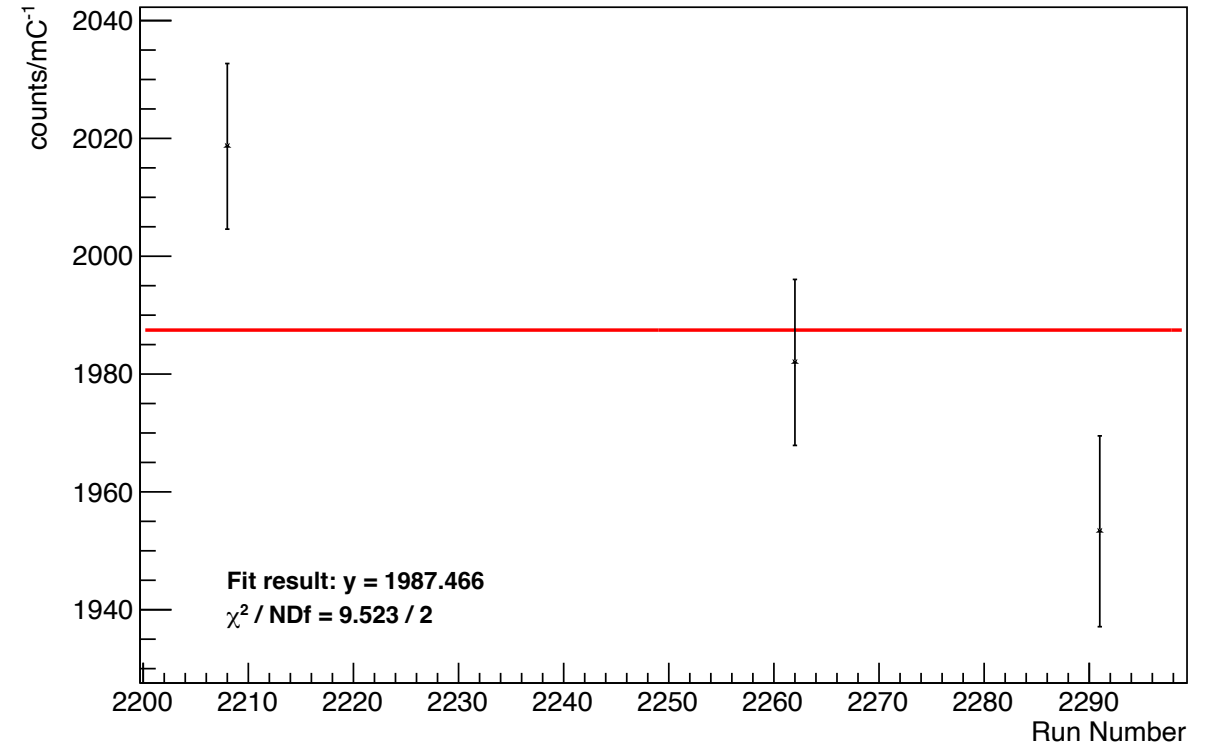
LH2

Charge normalized DVCS events(LD2)



LD2 9 μA

Charge normalized DVCS events(LH2)



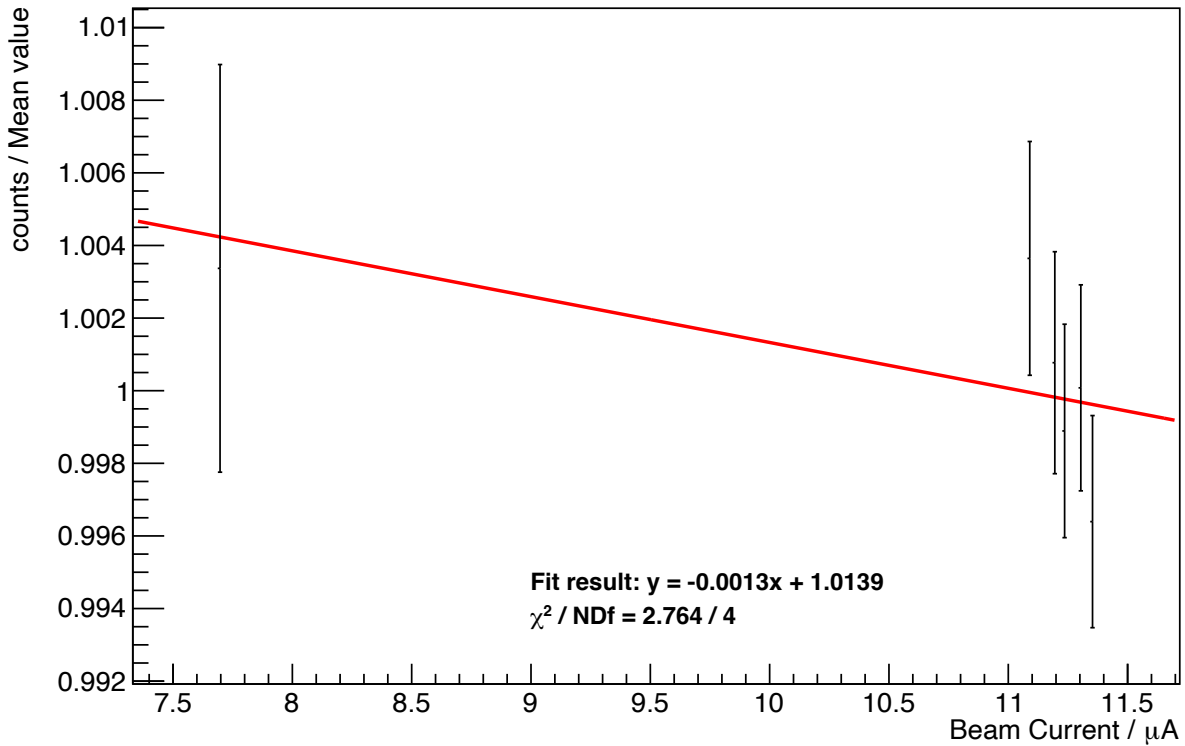
LH2 9 μA

Kinc_x36_5'

DVCS charge normalized yield vs. Beam current

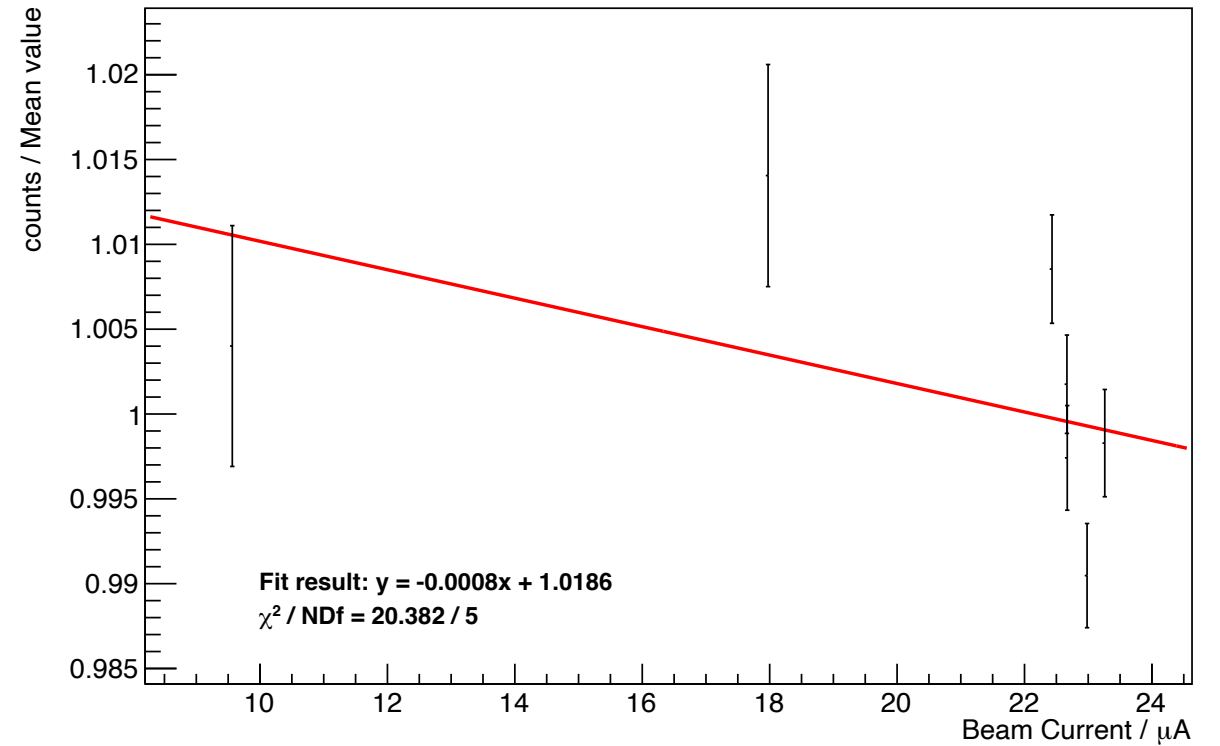
Kinc_x36_5'

Charge normalized DVCS events(LD2) / Mean value



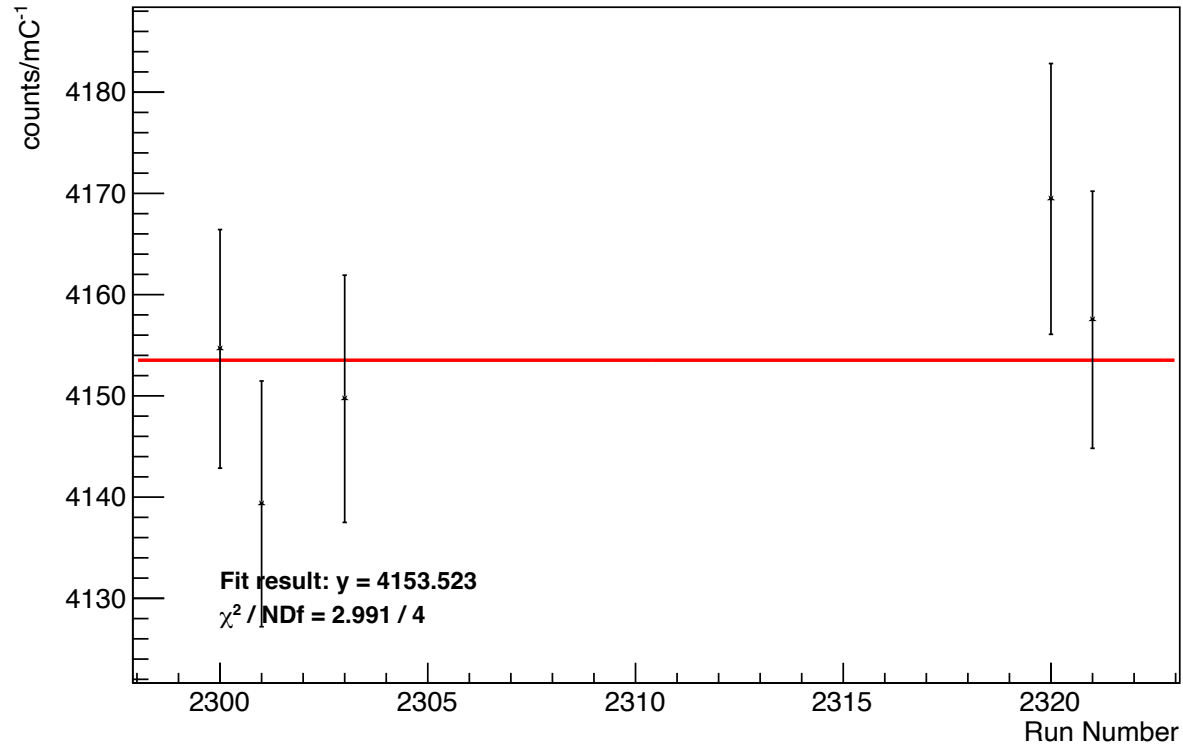
LD2

Charge normalized DVCS events(LH2) / Mean value



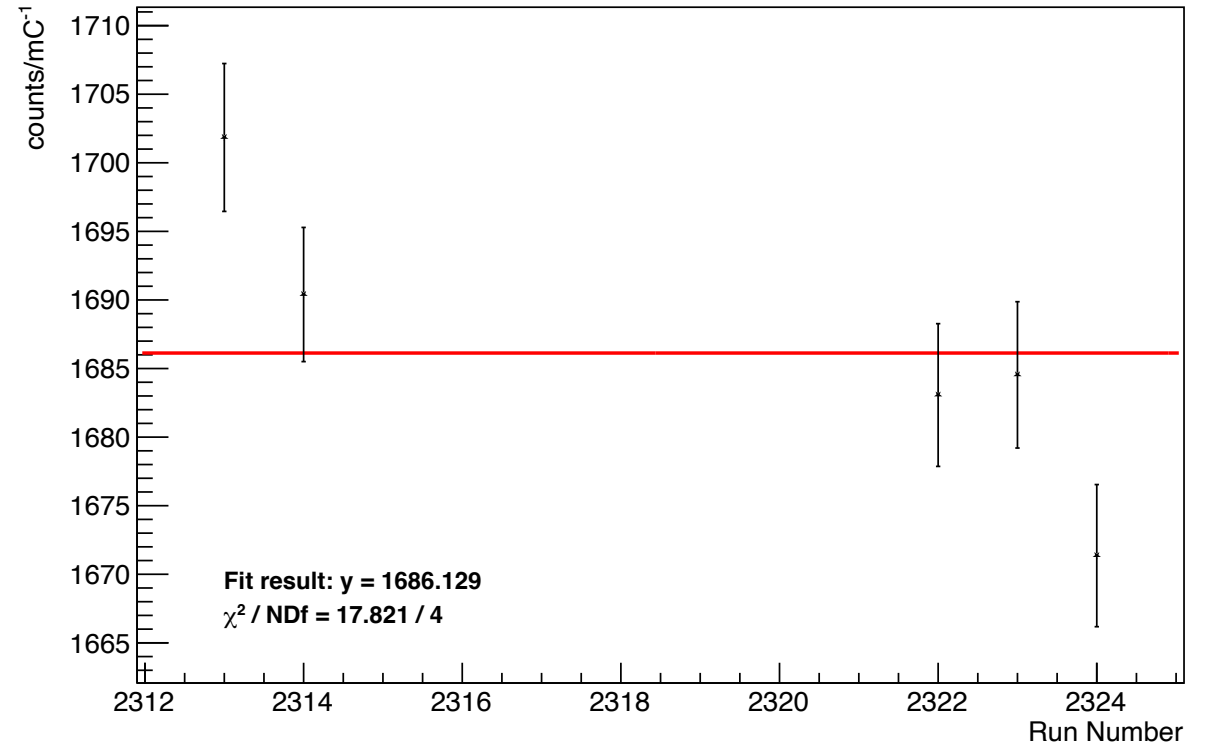
LH2

Charge normalized DVCS events(LD2)



LD2 11 μA

Charge normalized DVCS events(LH2)



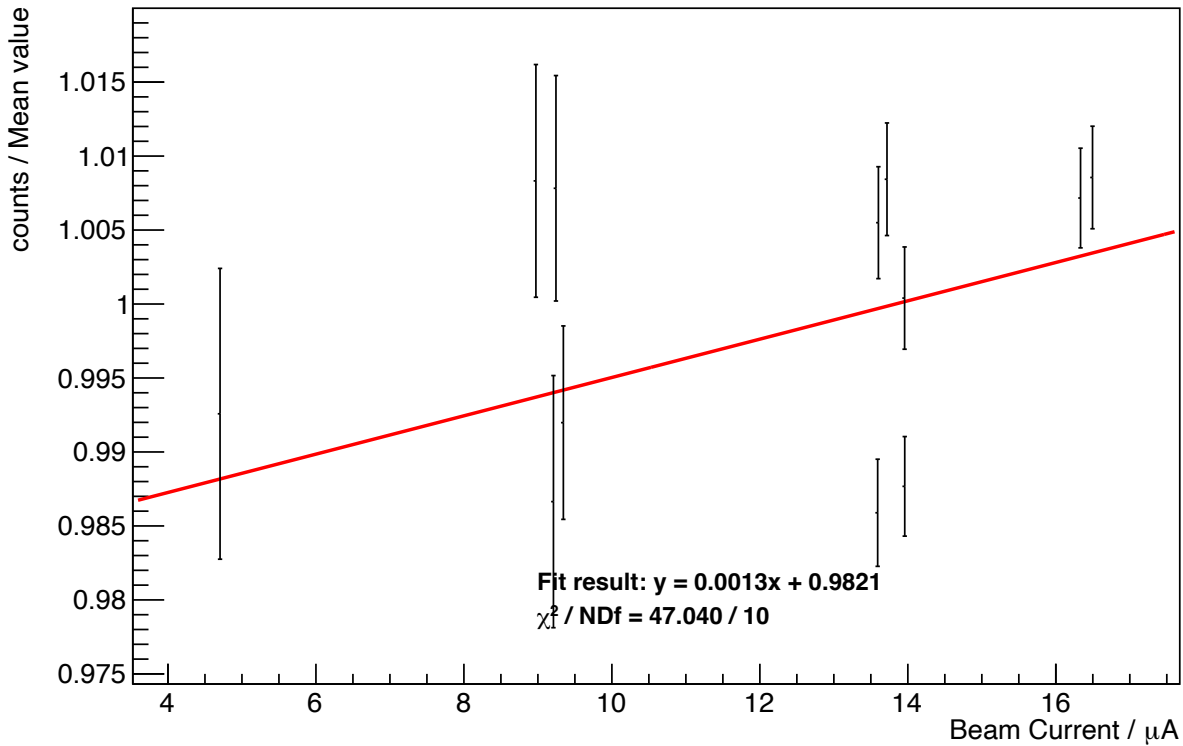
LH2 23 μA

Kinc_x50_4

DVCS charge normalized yield vs. Beam current

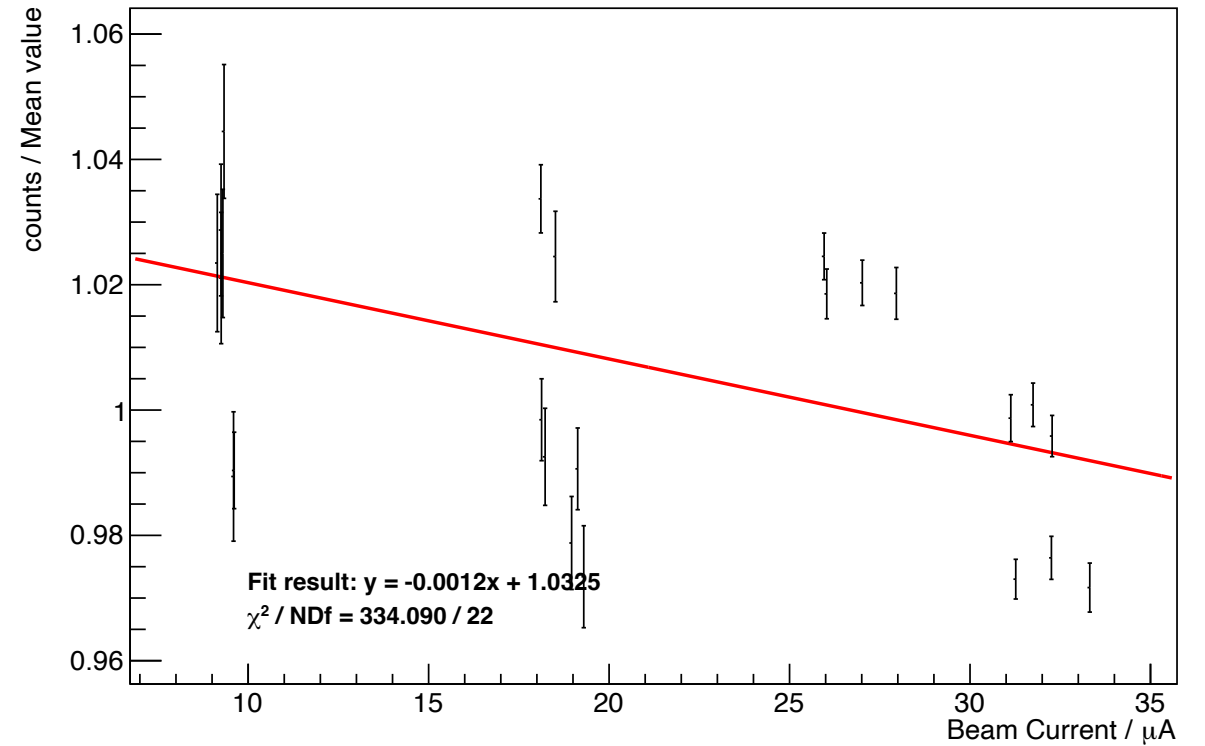
Kinc_x50_4

Charge normalized DVCS events(LD2) / Mean value



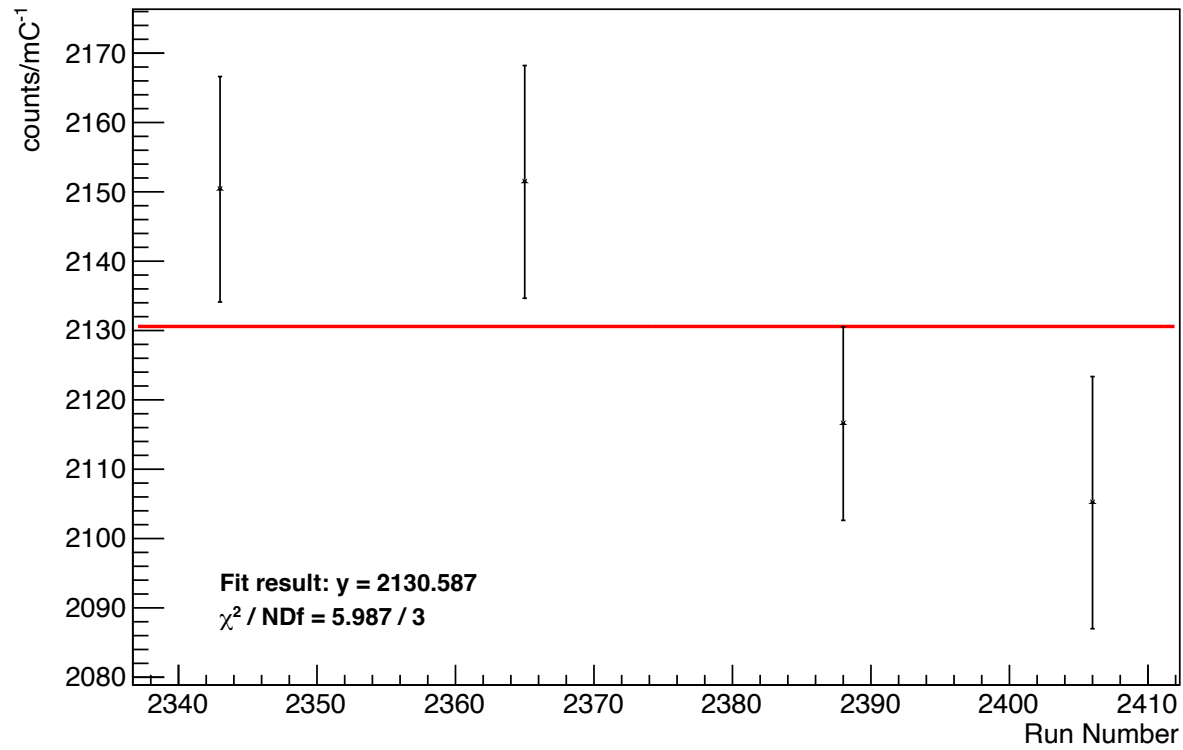
LD2

Charge normalized DVCS events(LH2) / Mean value



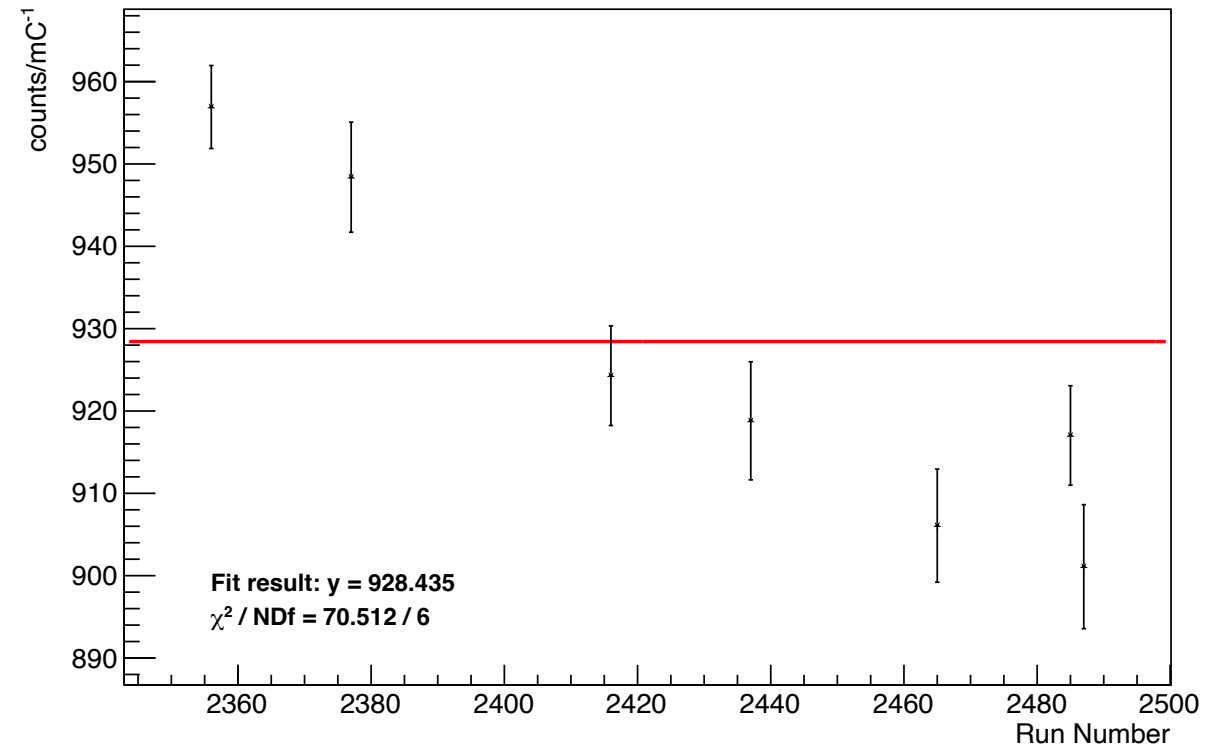
LH2

Charge normalized DVCS events(LD2)



LD2 9 μA

Charge normalized DVCS events(LH2)



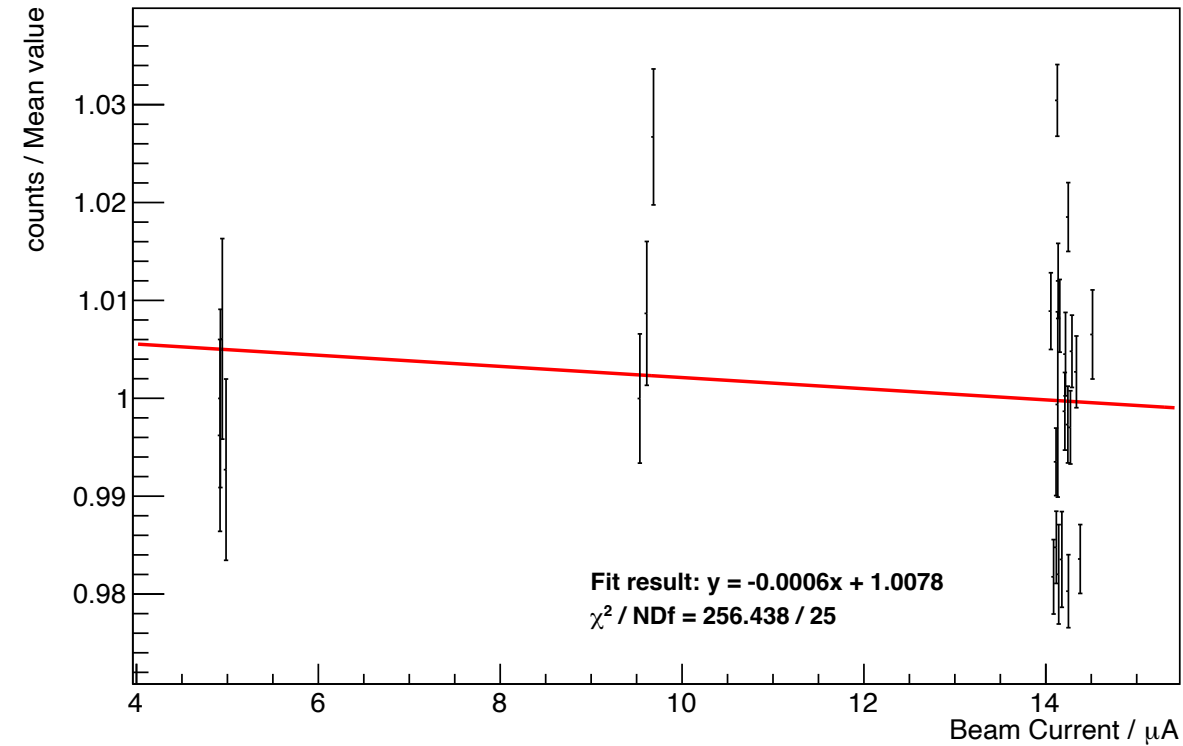
LH2 19 μA

Kinc_x50_4'

DVCS charge normalized yield vs. Beam current

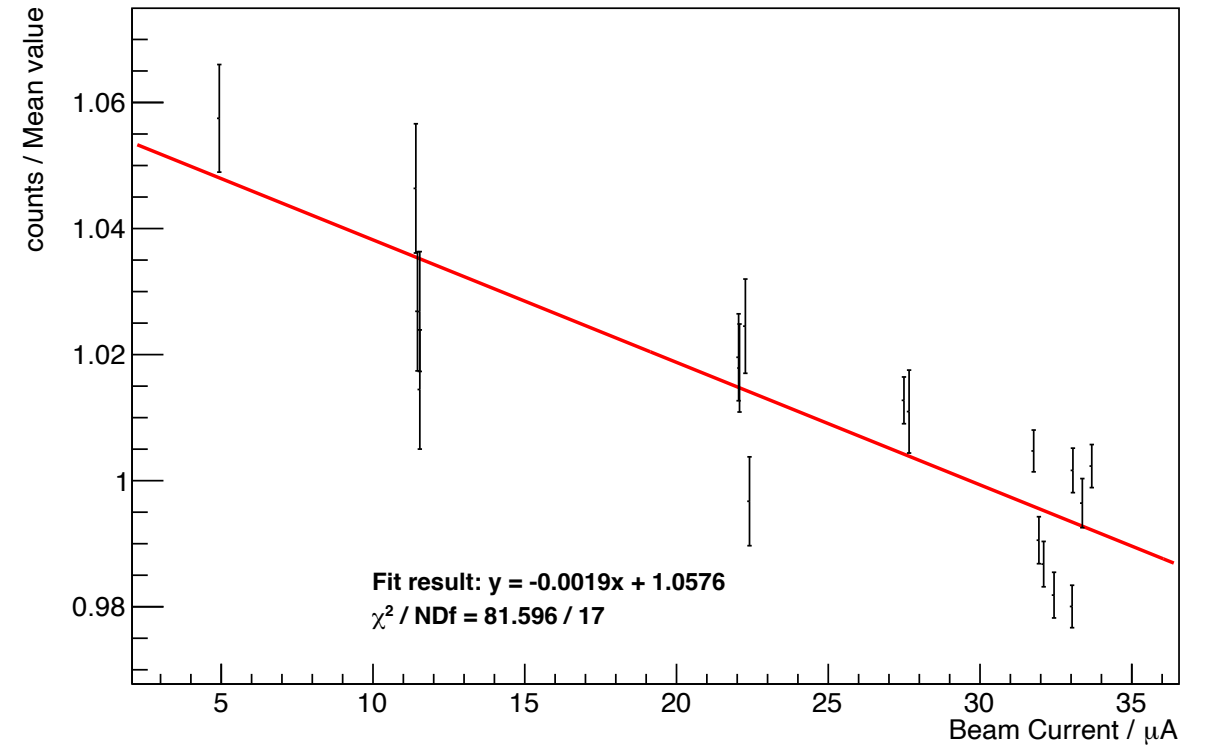
Kinc_x50_4'

Charge normalized DVCS events(LD2) / Mean value



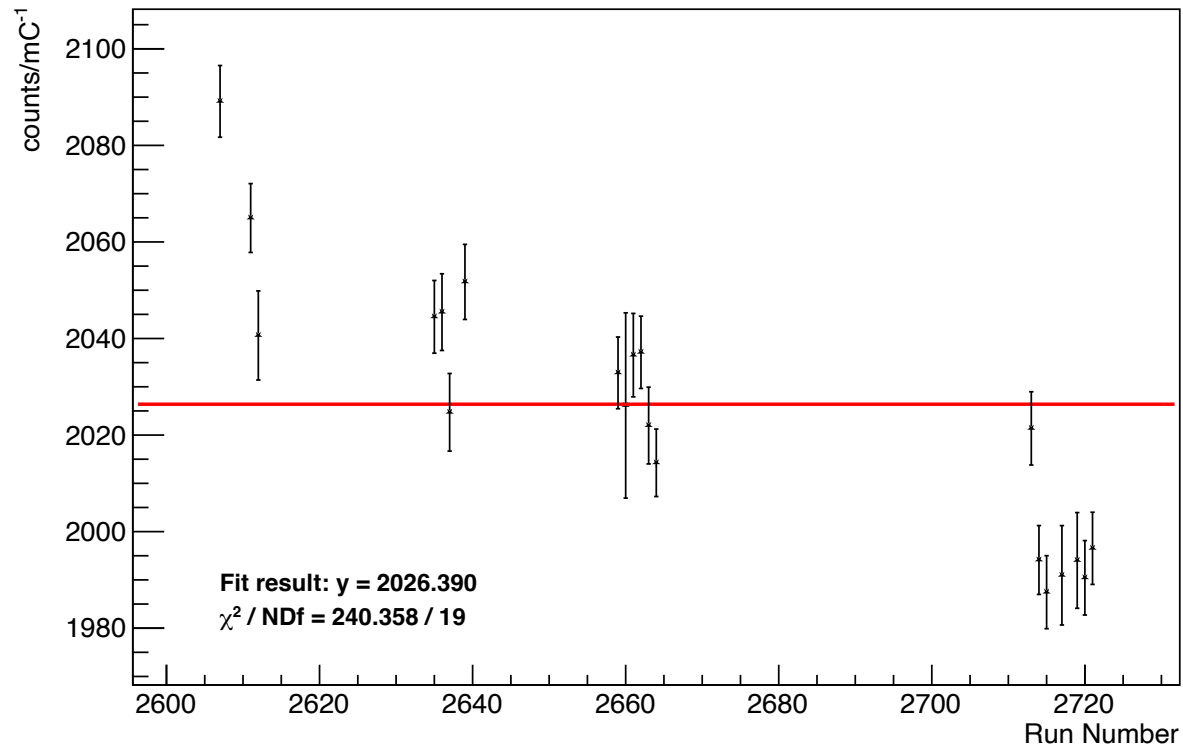
LD2

Charge normalized DVCS events(LH2) / Mean value



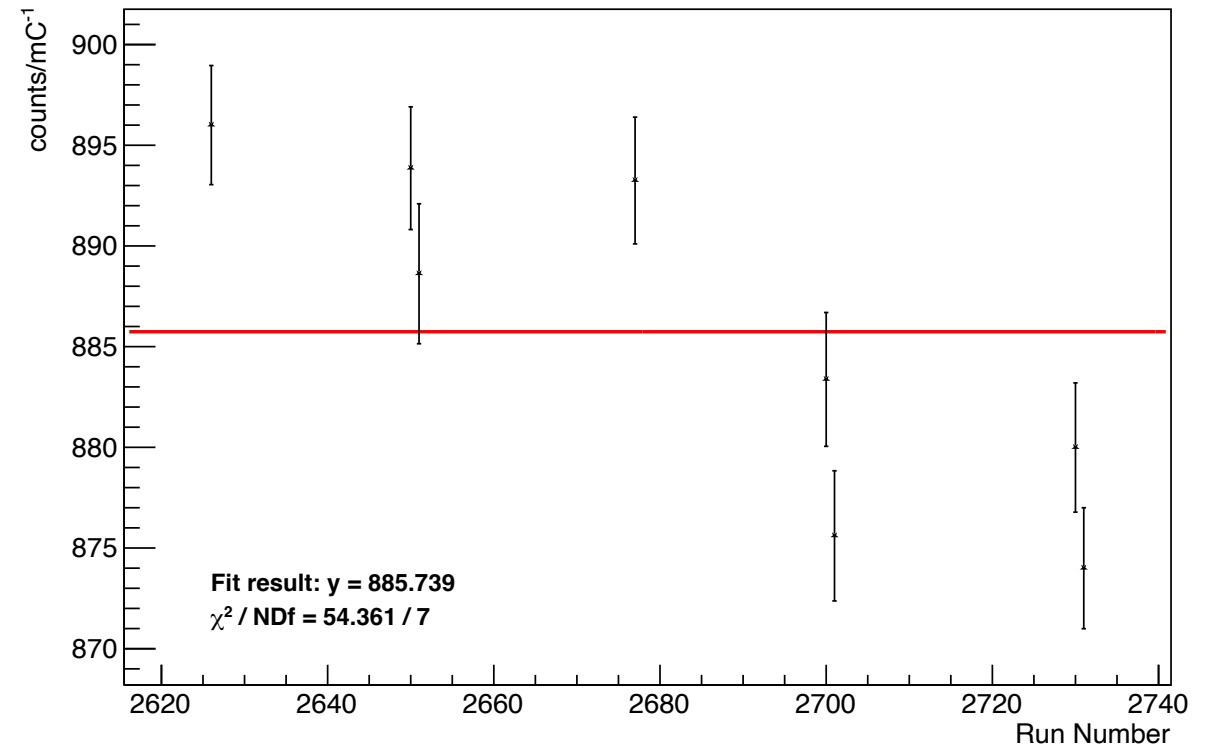
LH2

Charge normalized DVCS events(LD2)



LD2 14 μA

Charge normalized DVCS events(LH2)



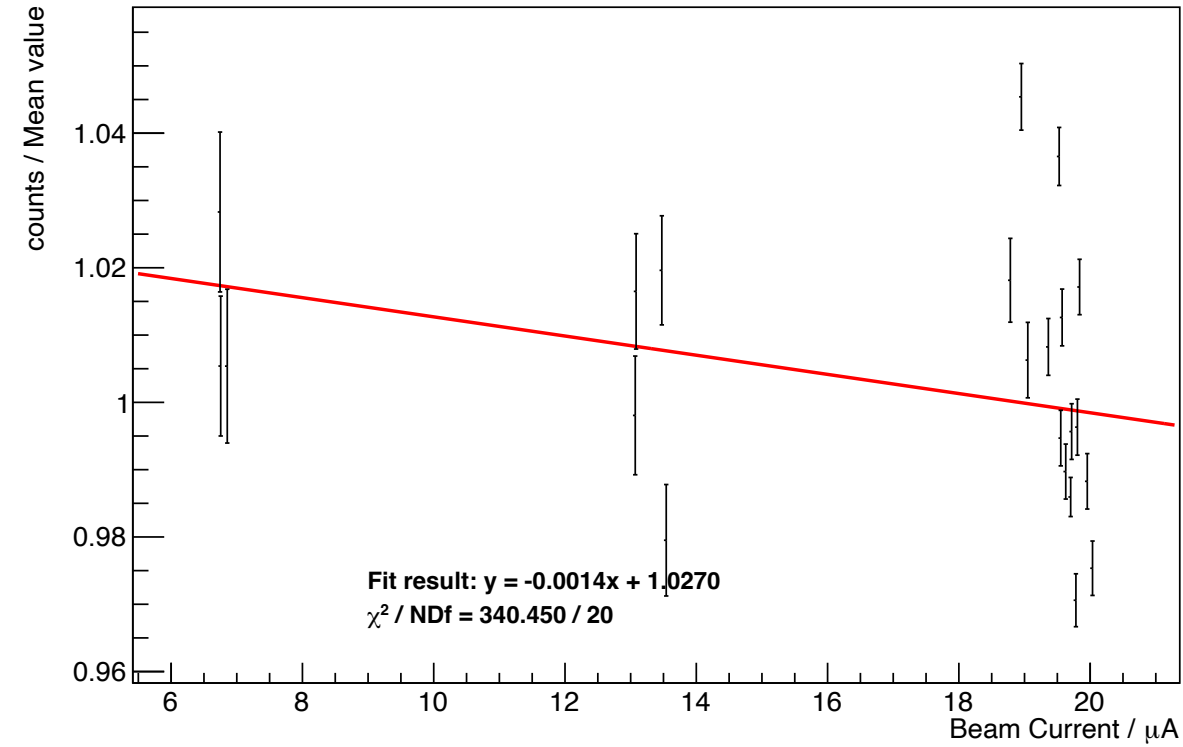
LH2 33 μA

Kinc_x60_3'

DVCS charge normalized yield vs. Beam current

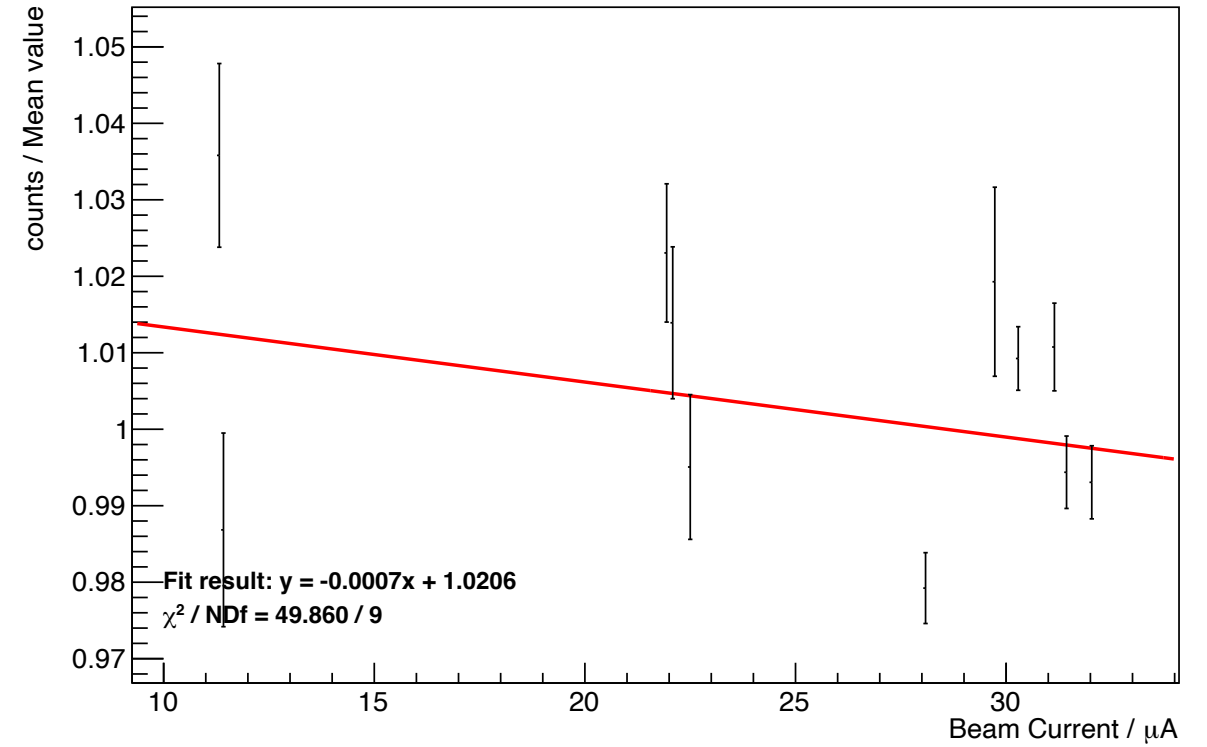
Kinc_x60_3'

Charge normalized DVCS events(LD2) / Mean value



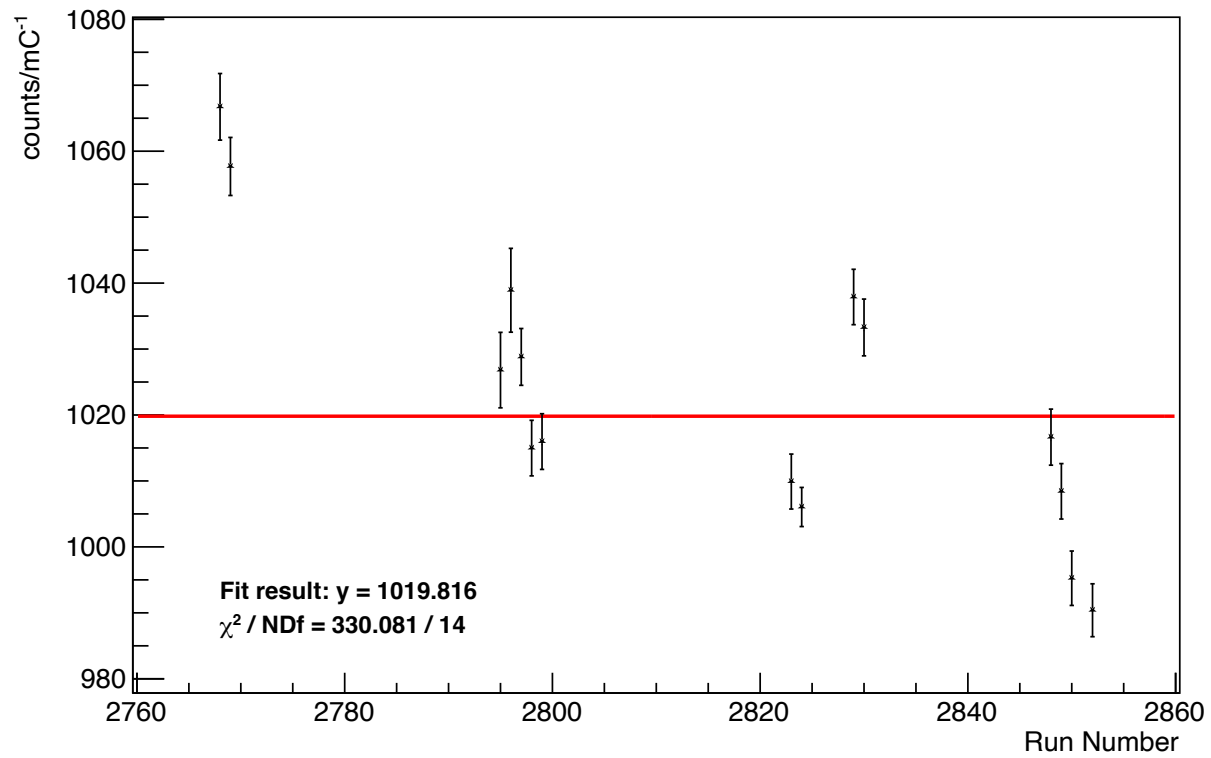
LD2

Charge normalized DVCS events(LH2) / Mean value



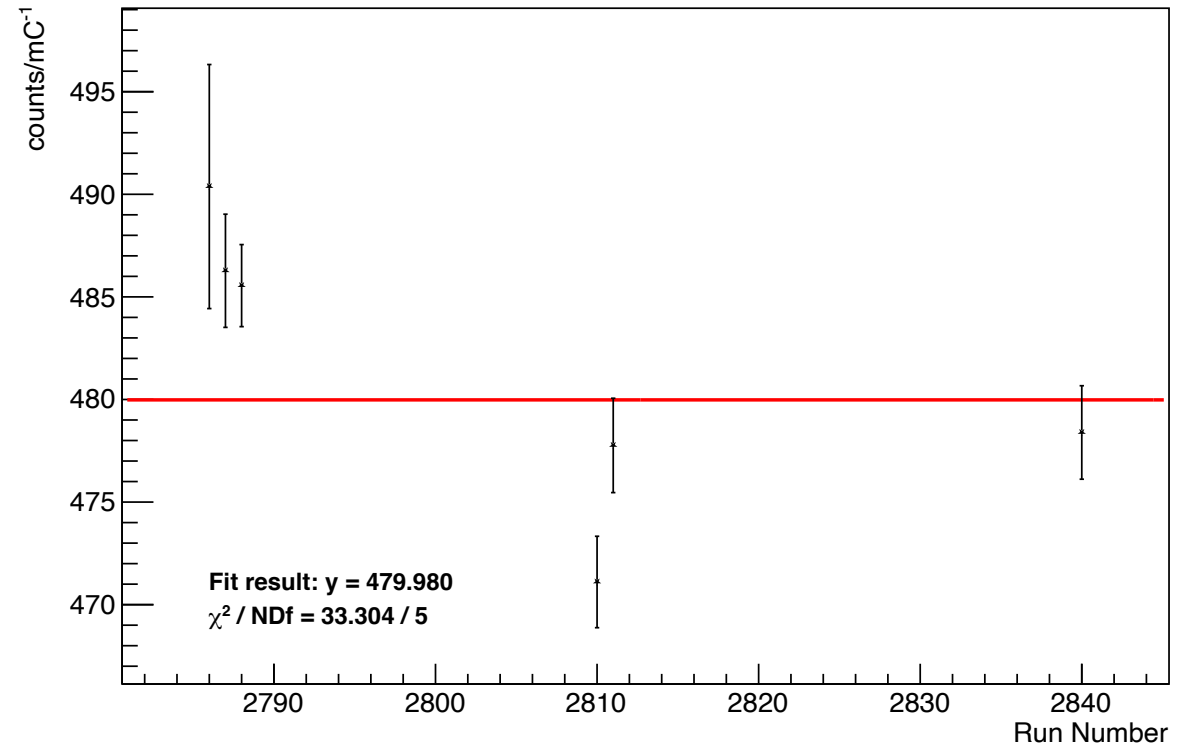
LH2

Charge normalized DVCS events(LD2)



LD2 19 μA

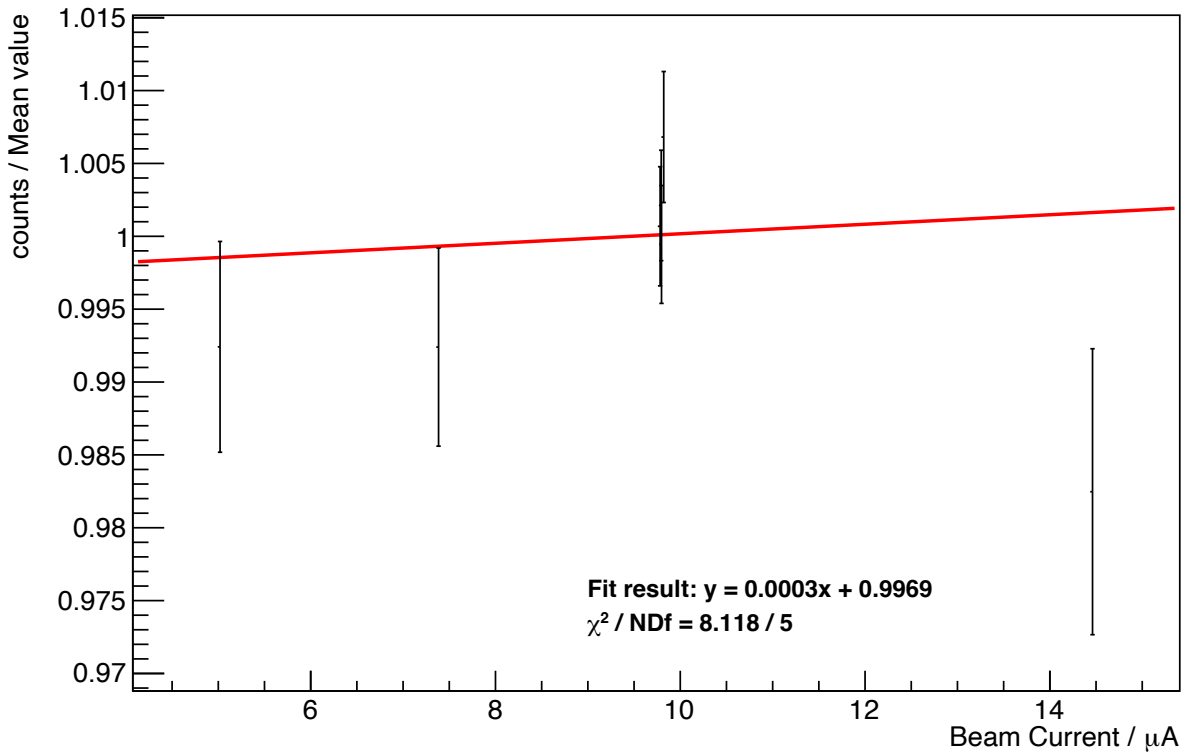
Charge normalized DVCS events(LH2)



LH2 30 μA

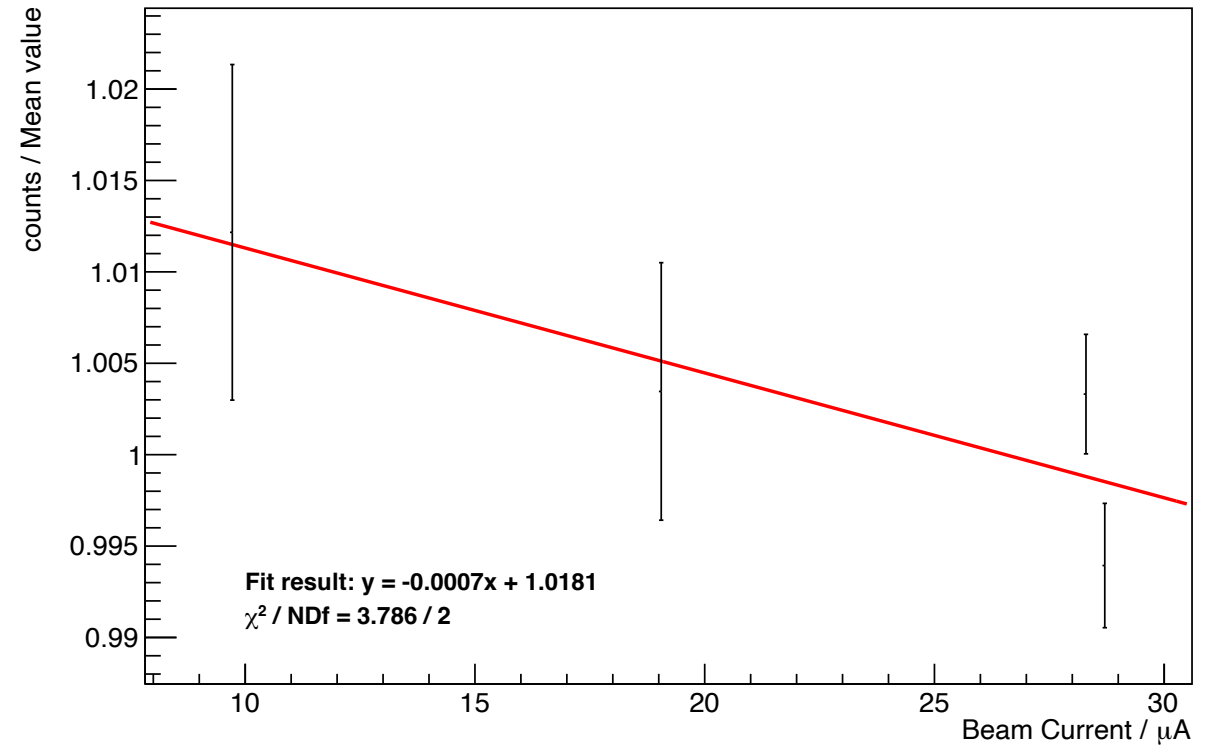
Kinc_x36_2

Charge normalized DVCS events(LD2) / Mean value



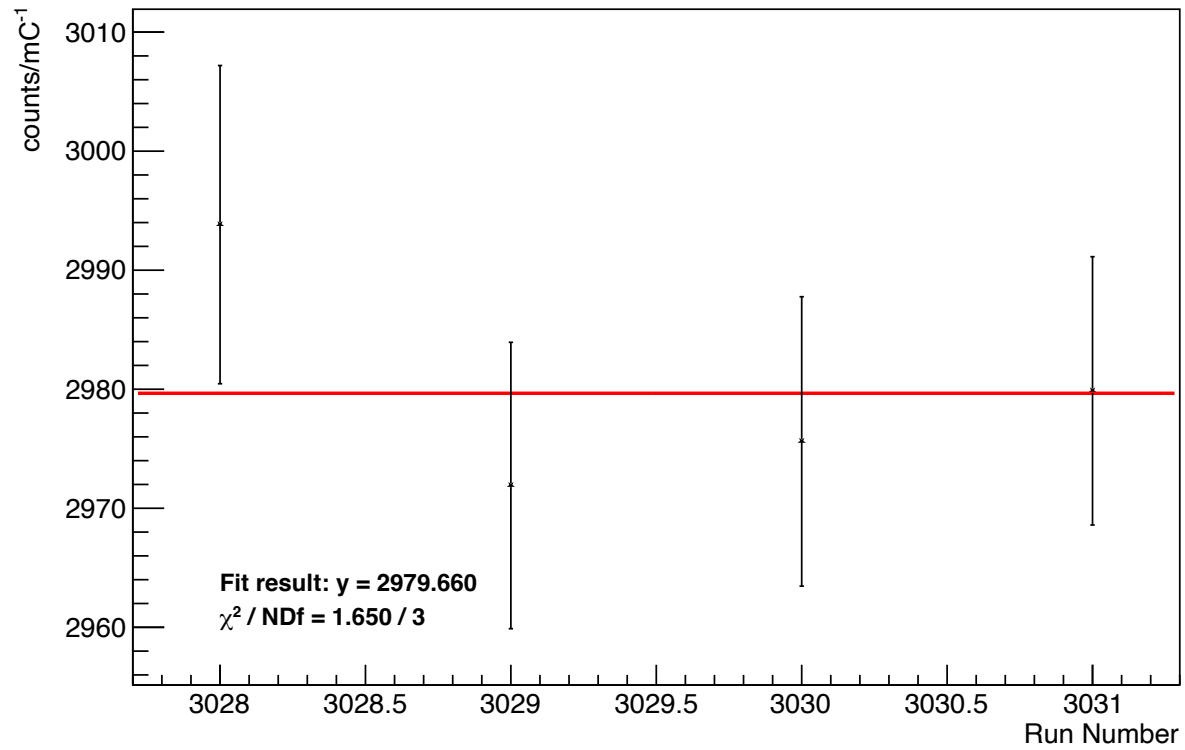
LD2

Charge normalized DVCS events(LH2) / Mean value



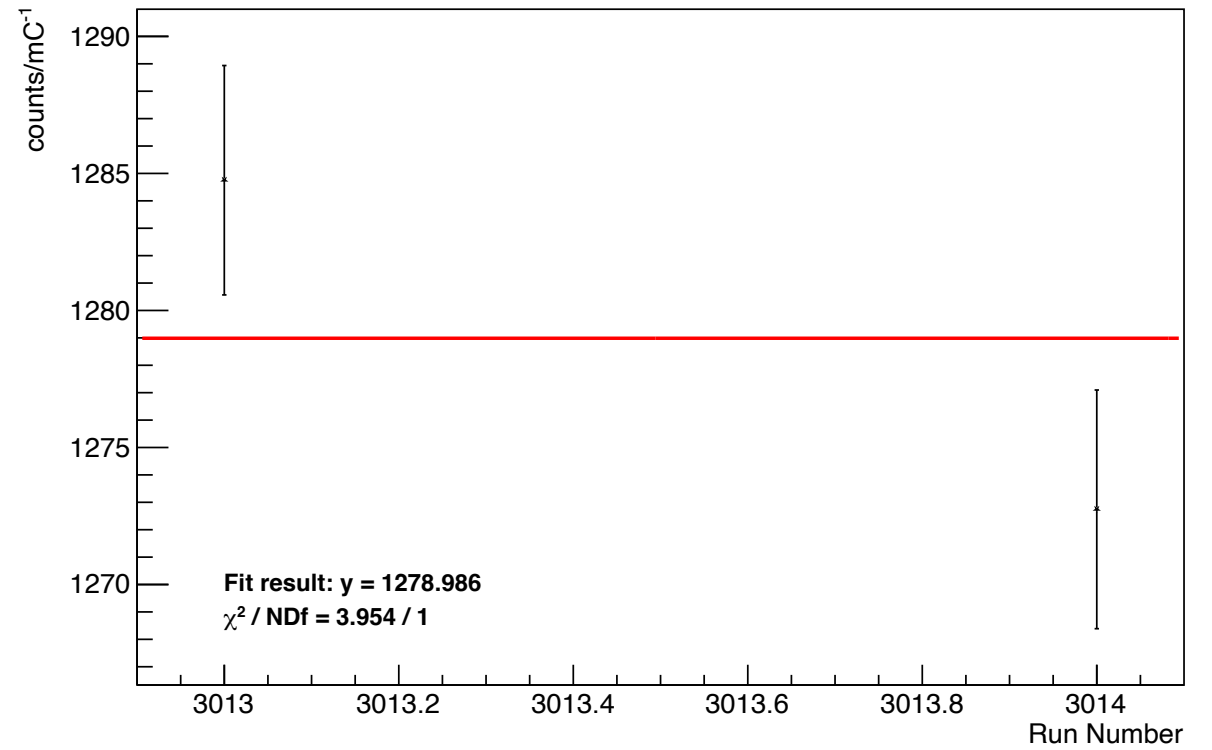
LH2

Charge normalized DVCS events(LD2)



LD2 10 μ A

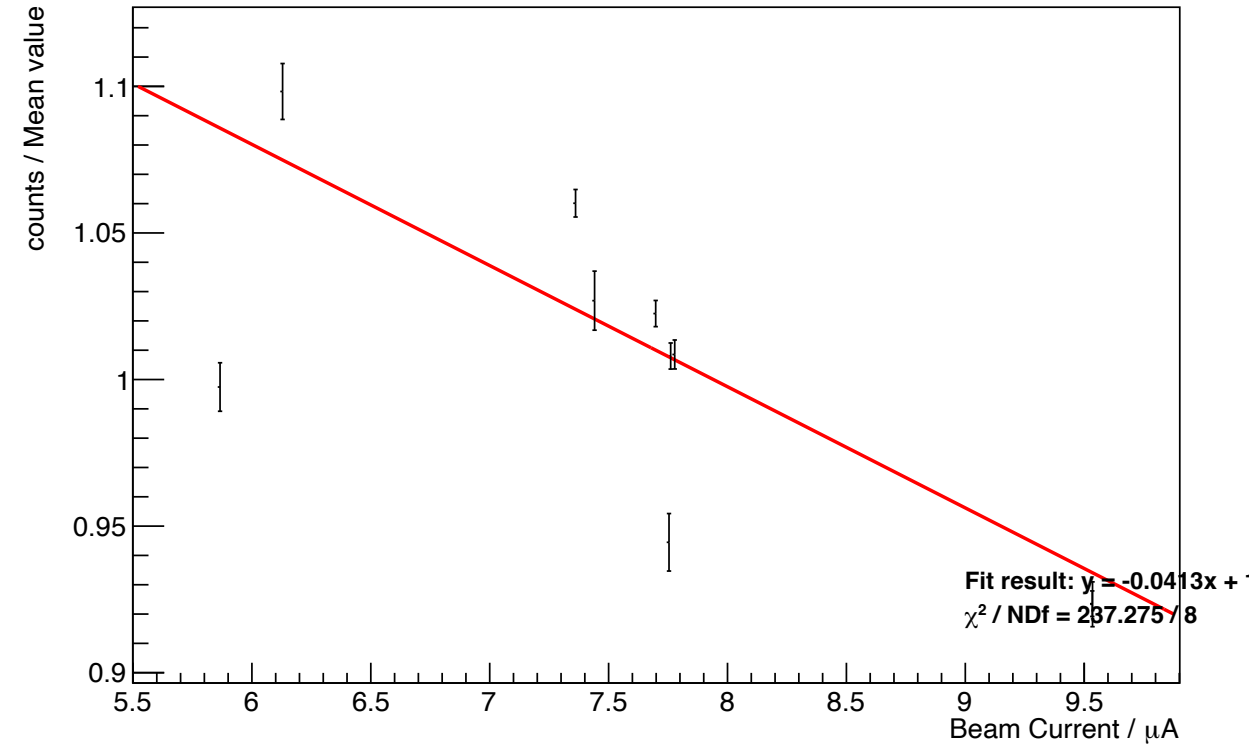
Charge normalized DVCS events(LH2)



LH2 29 μ A

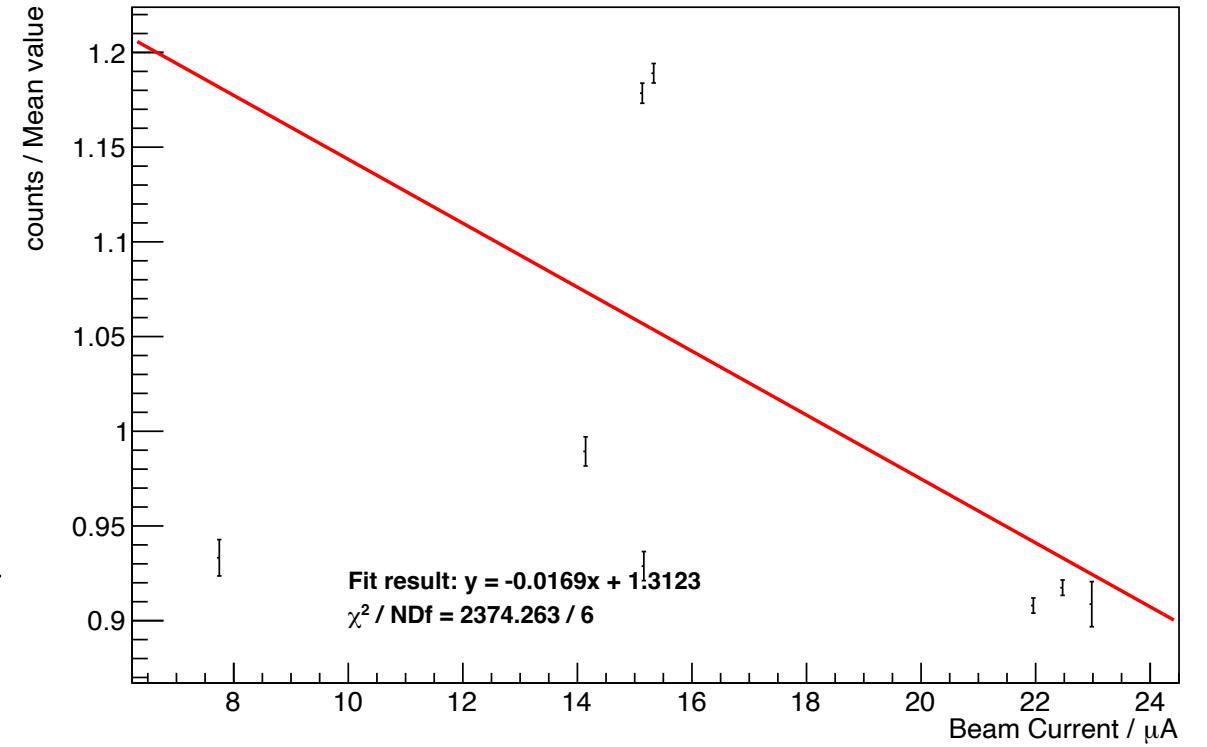
Kinc_x36_2'

Charge normalized DVCS events(LD2) / Mean value



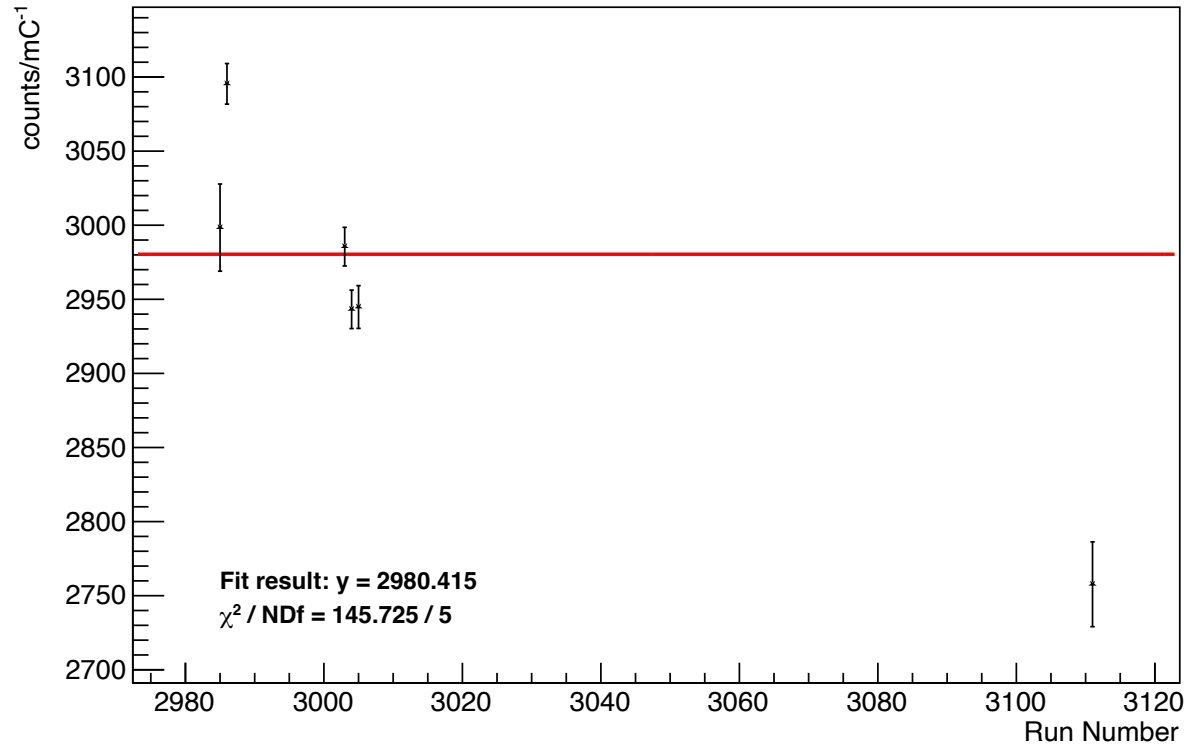
LD2

Charge normalized DVCS events(LH2) / Mean value



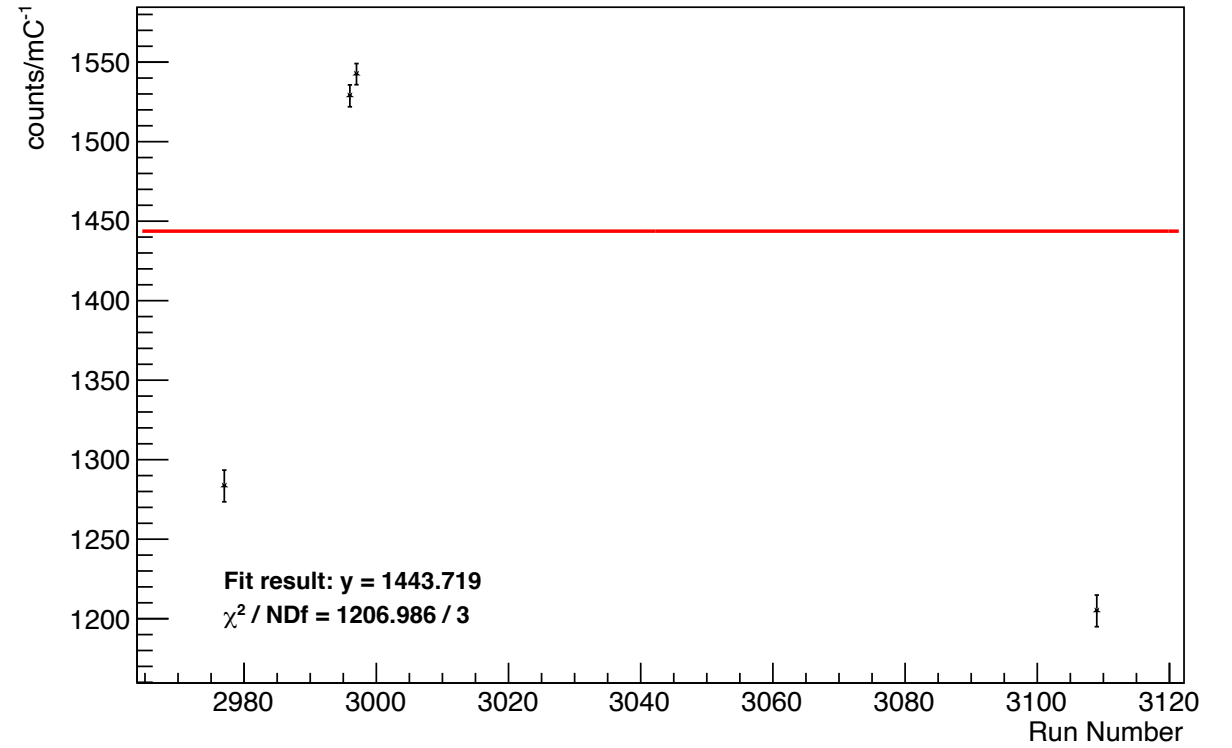
LH2

Charge normalized DVCS events(LD2)



LD2 8 μA

Charge normalized DVCS events(LH2)



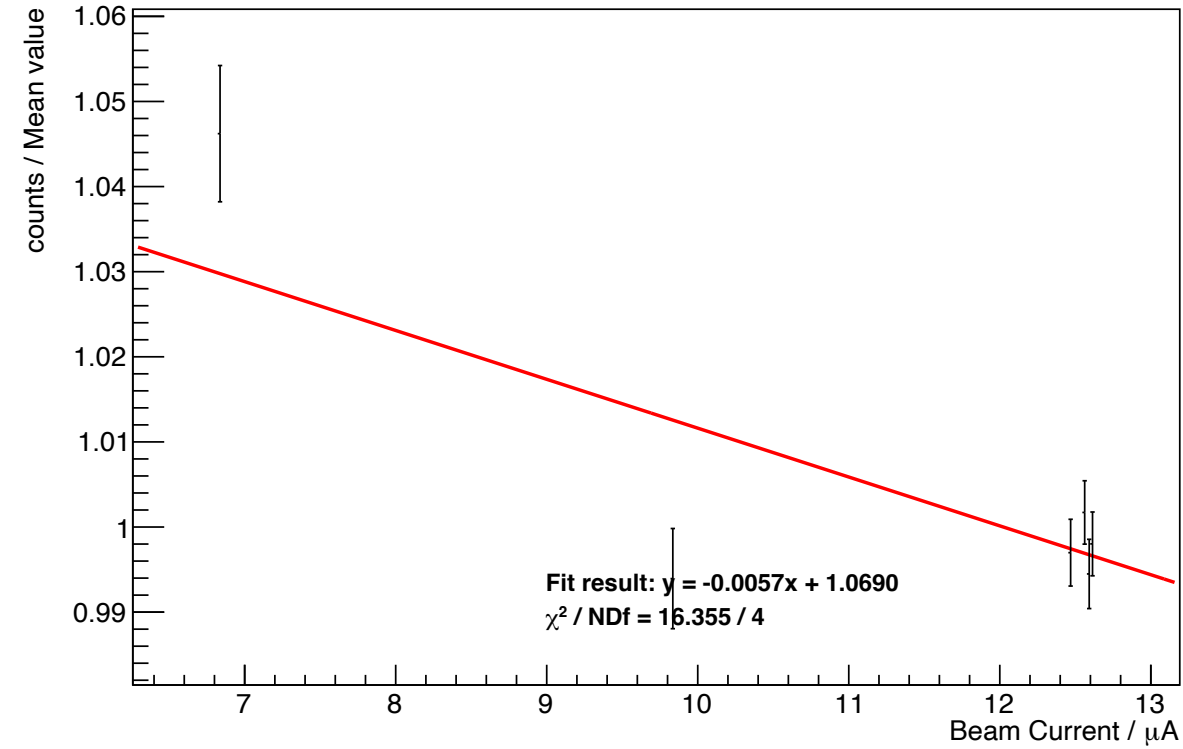
LH2 15 μA

Kinc_x36_2”

DVCS charge normalized yield vs. Beam current

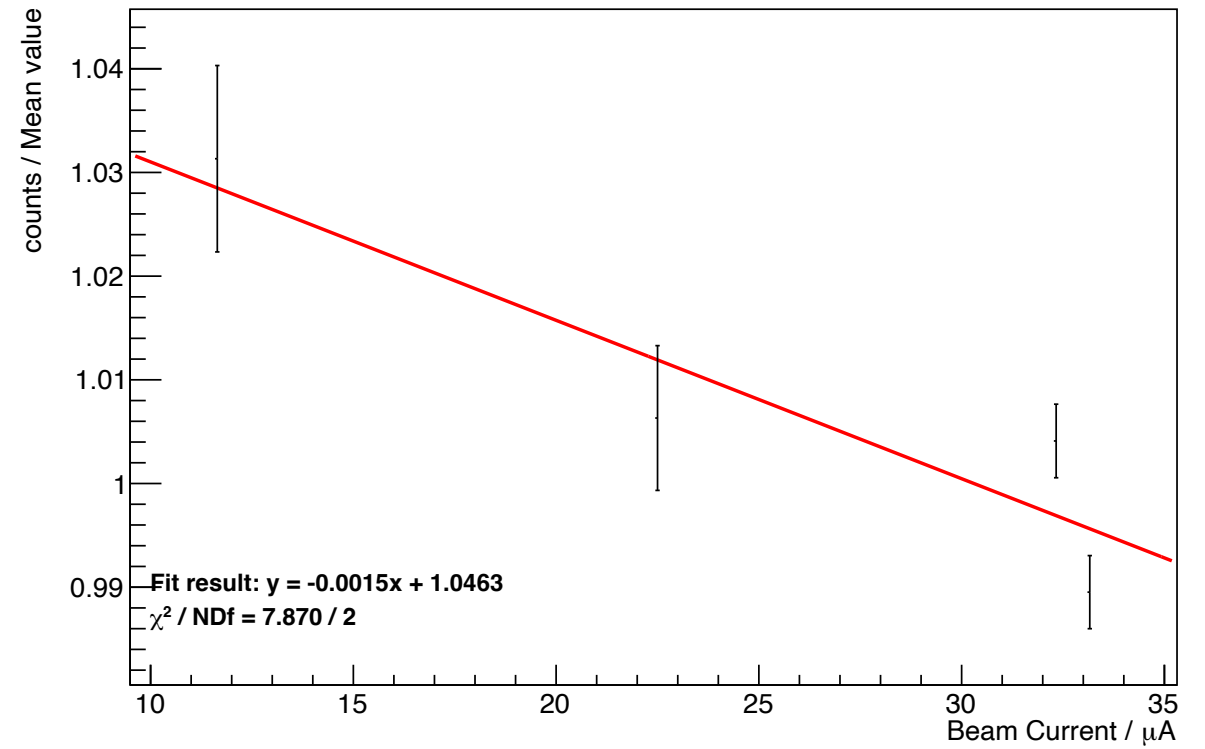
Kinc_x36_2''

Charge normalized DVCS events(LD2) / Mean value



LD2

Charge normalized DVCS events(LH2) / Mean value

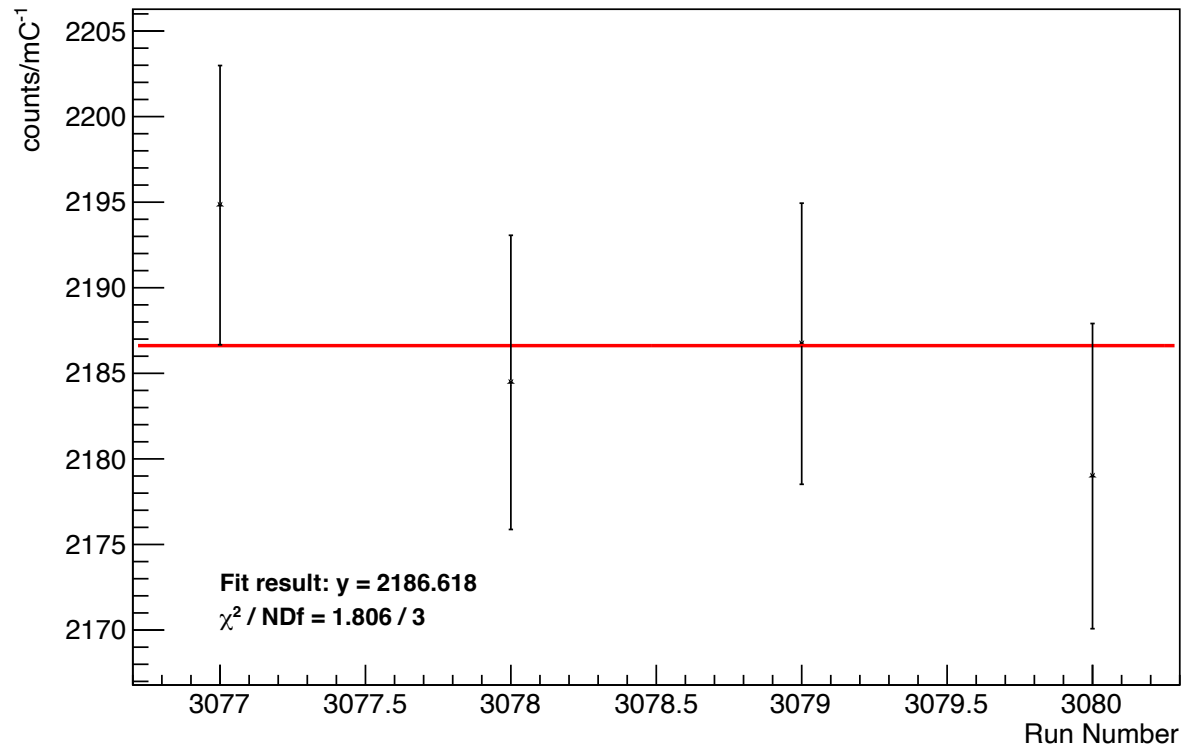


LH2

DVCS charge normalized yield vs. Run number

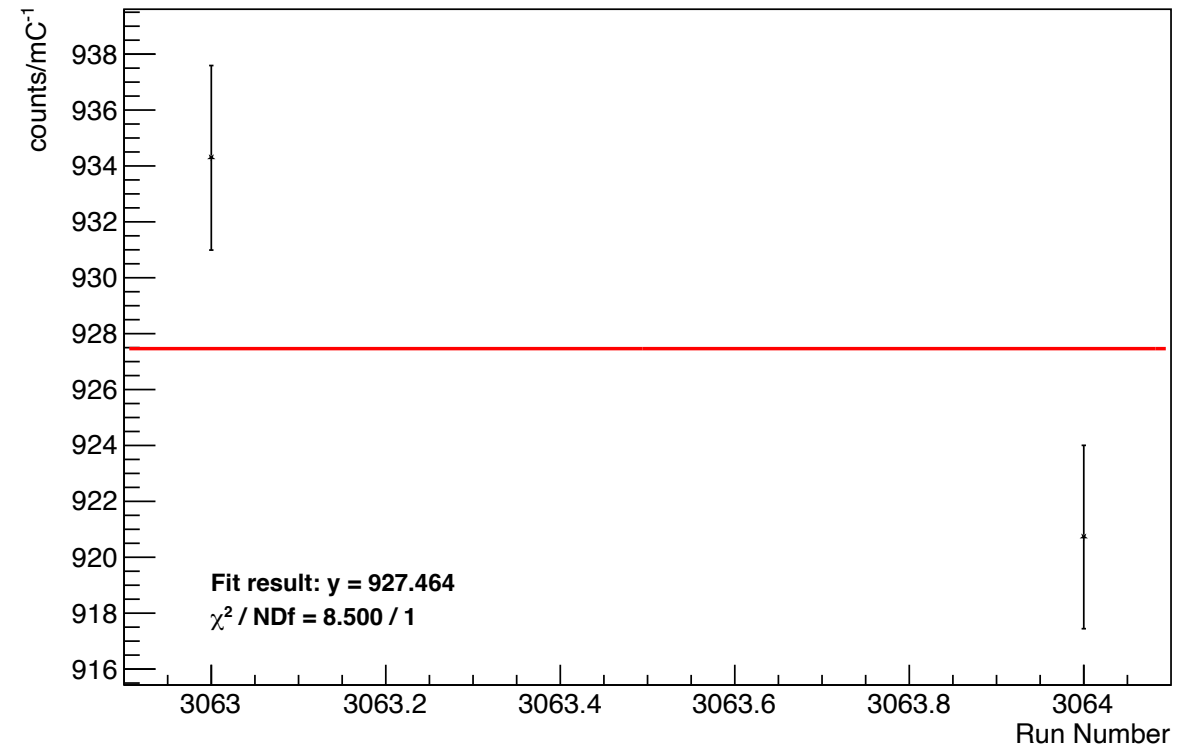
Kinc_x36_2''

Charge normalized DVCS events(LD2)



LD2 12 μA

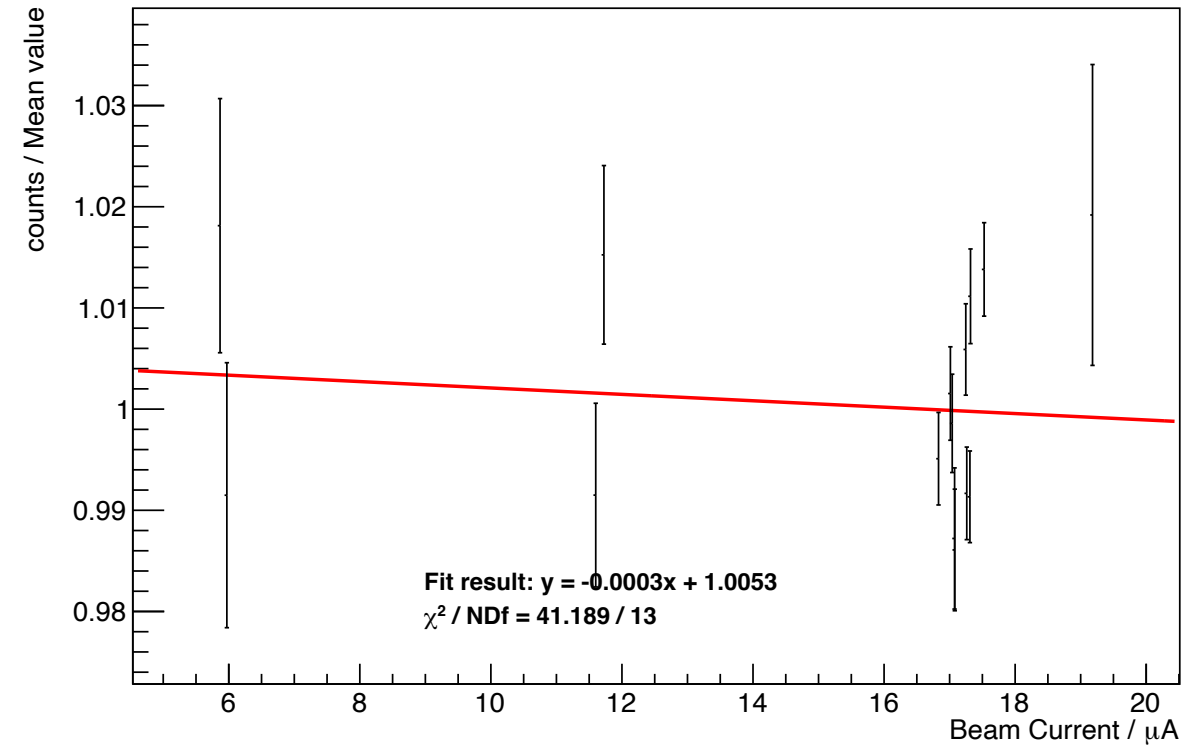
Charge normalized DVCS events(LH2)



LH2 33 μA

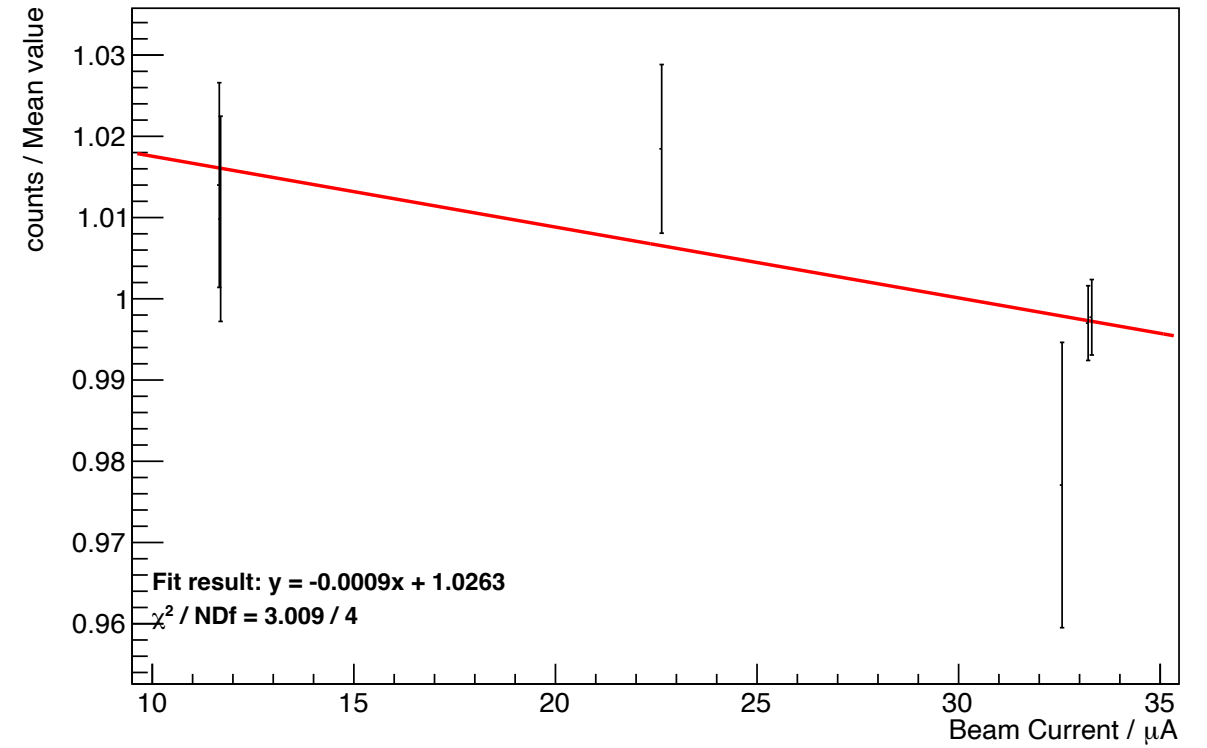
Kinc_x50_1

Charge normalized DVCS events(LD2) / Mean value



LD2

Charge normalized DVCS events(LH2) / Mean value

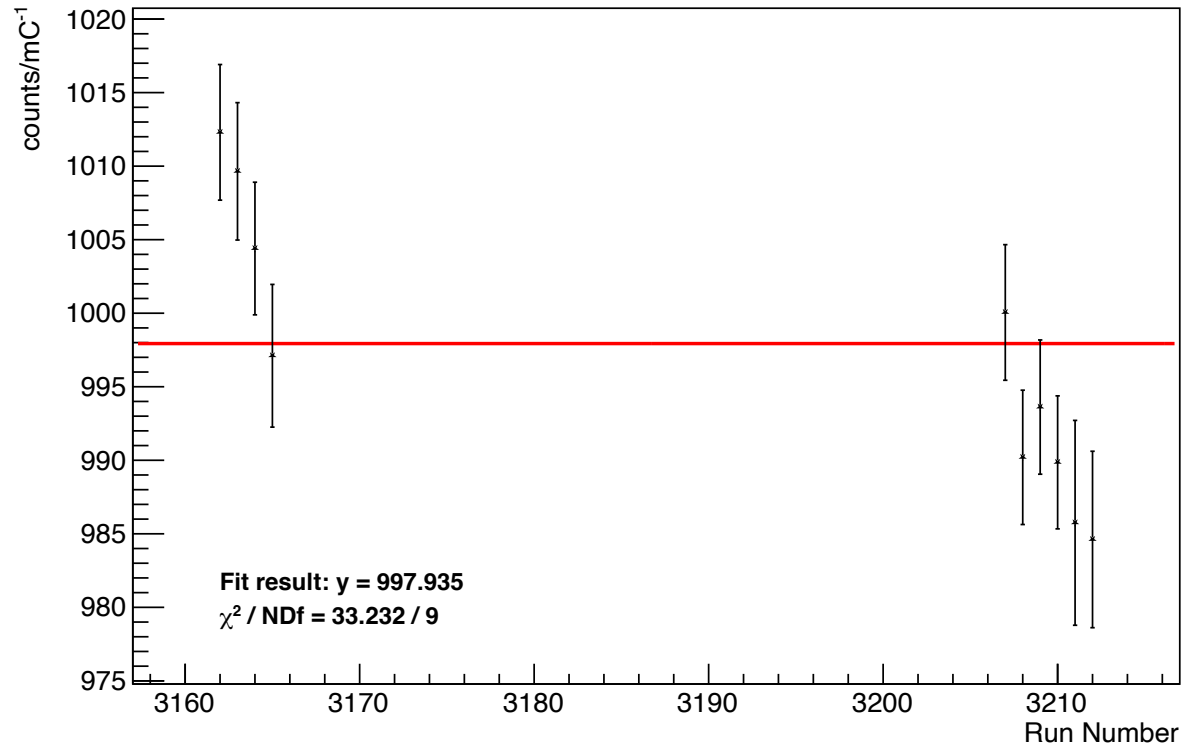


LH2

DVCS charge normalized yield vs. Run number

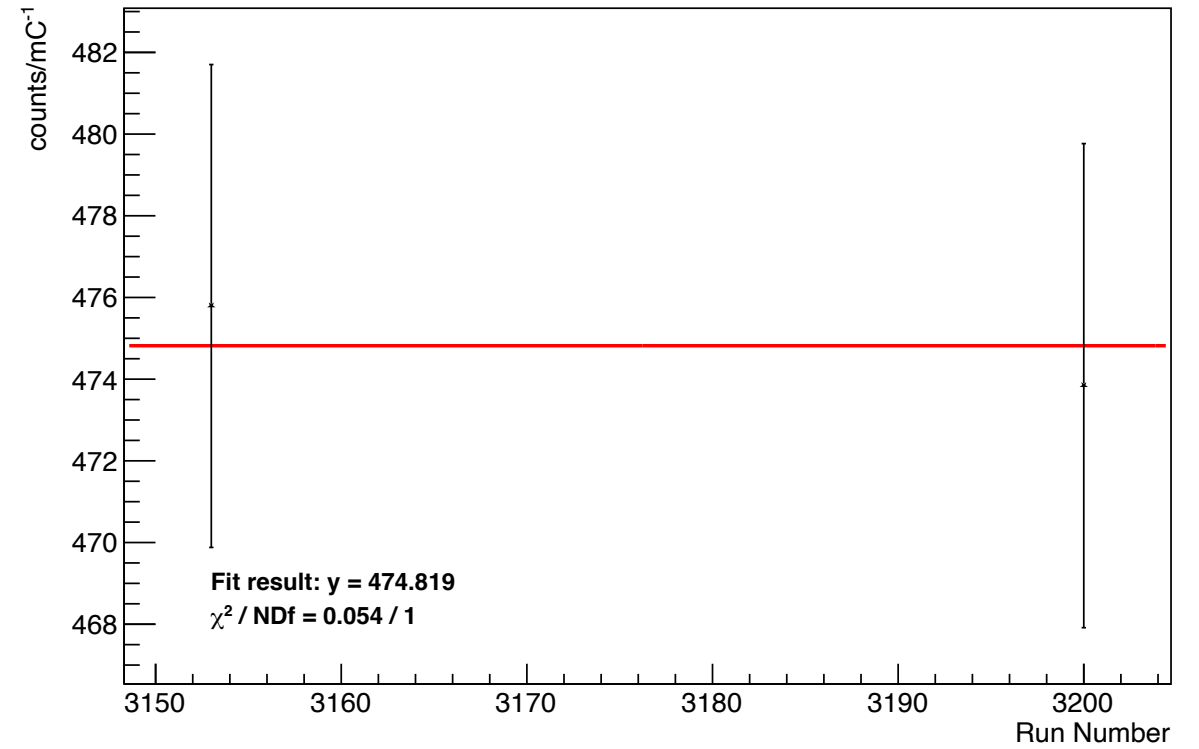
Kinc_x50_1

Charge normalized DVCS events(LD2)



LD2 17 μA

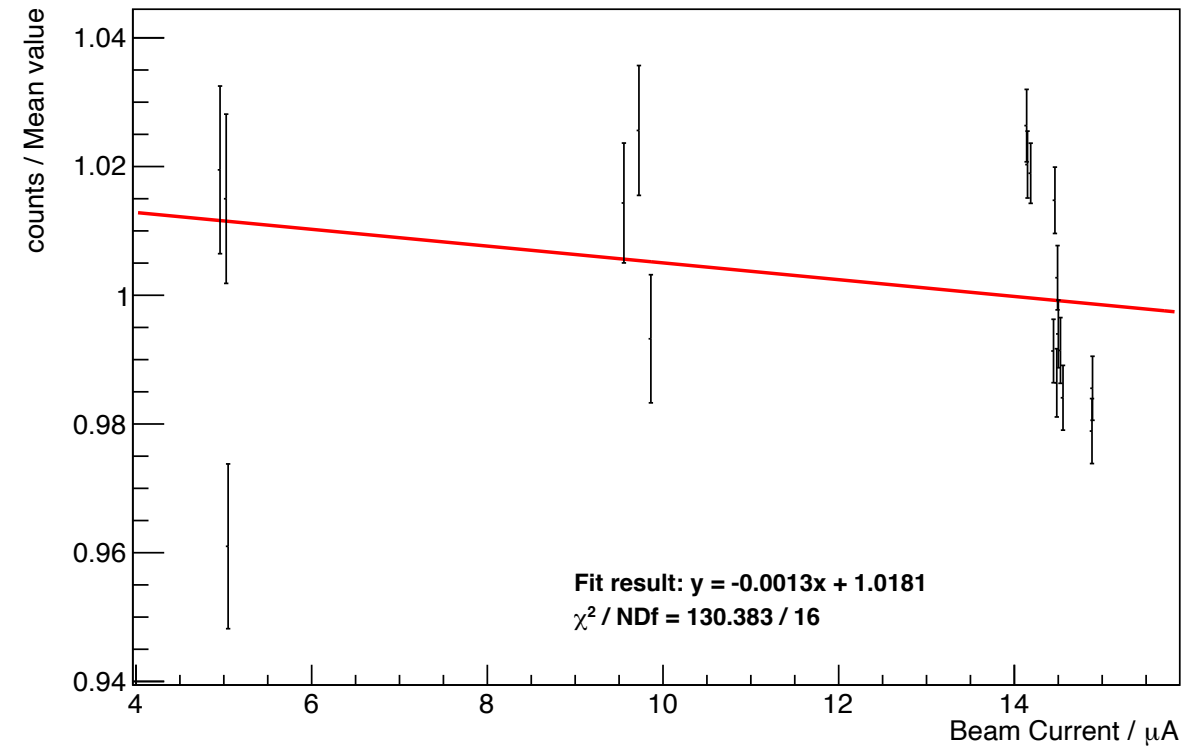
Charge normalized DVCS events(LH2)



LH2 12 μA

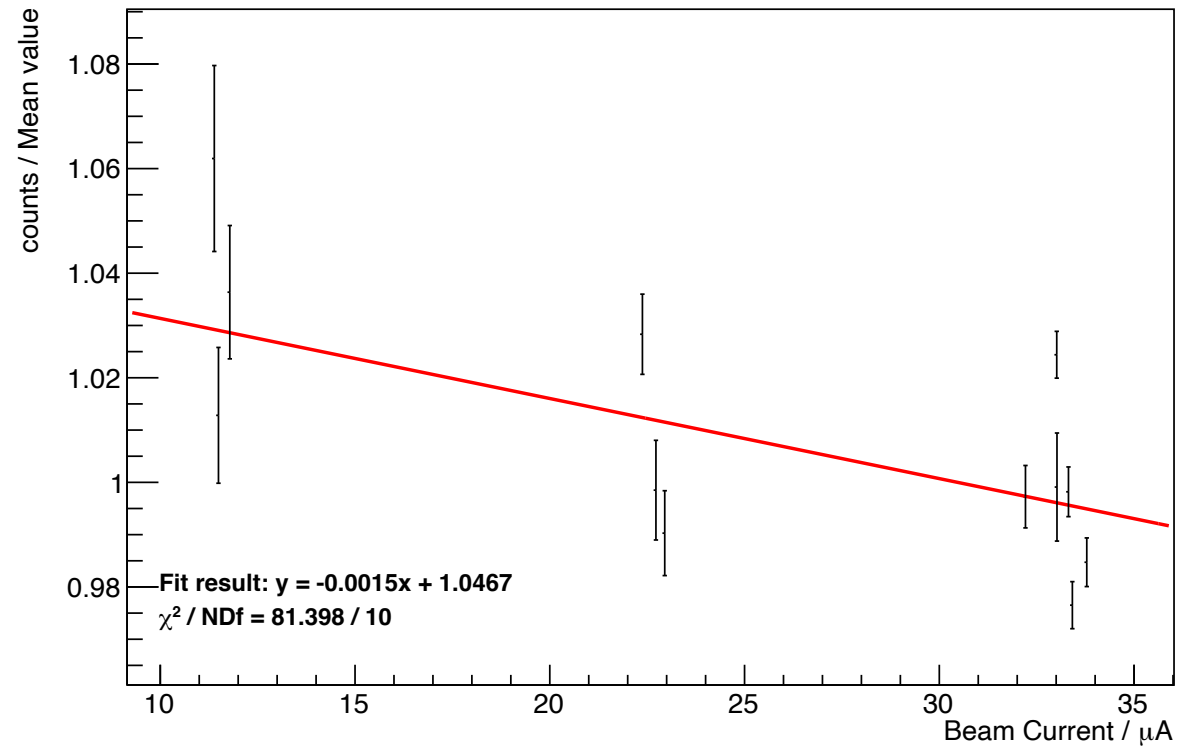
Kinc_x50_1'

Charge normalized DVCS events(LD2) / Mean value



LD2

Charge normalized DVCS events(LH2) / Mean value

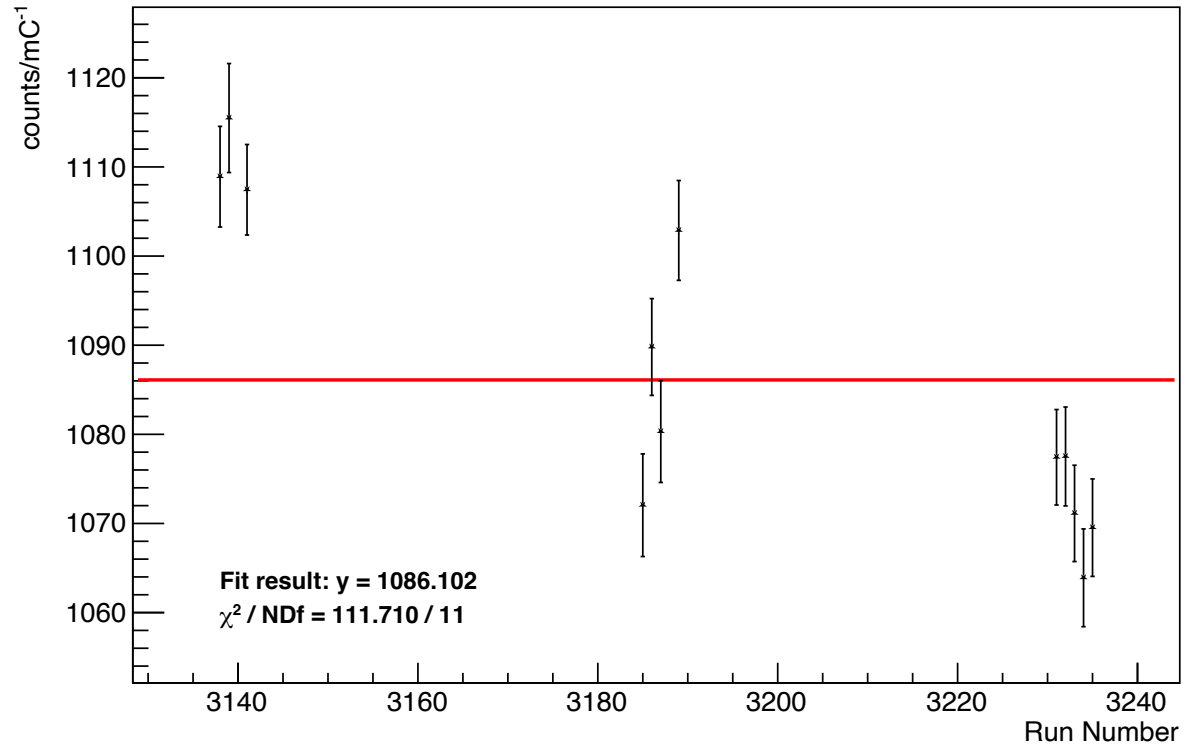


LH2

DVCS charge normalized yield vs. Run number

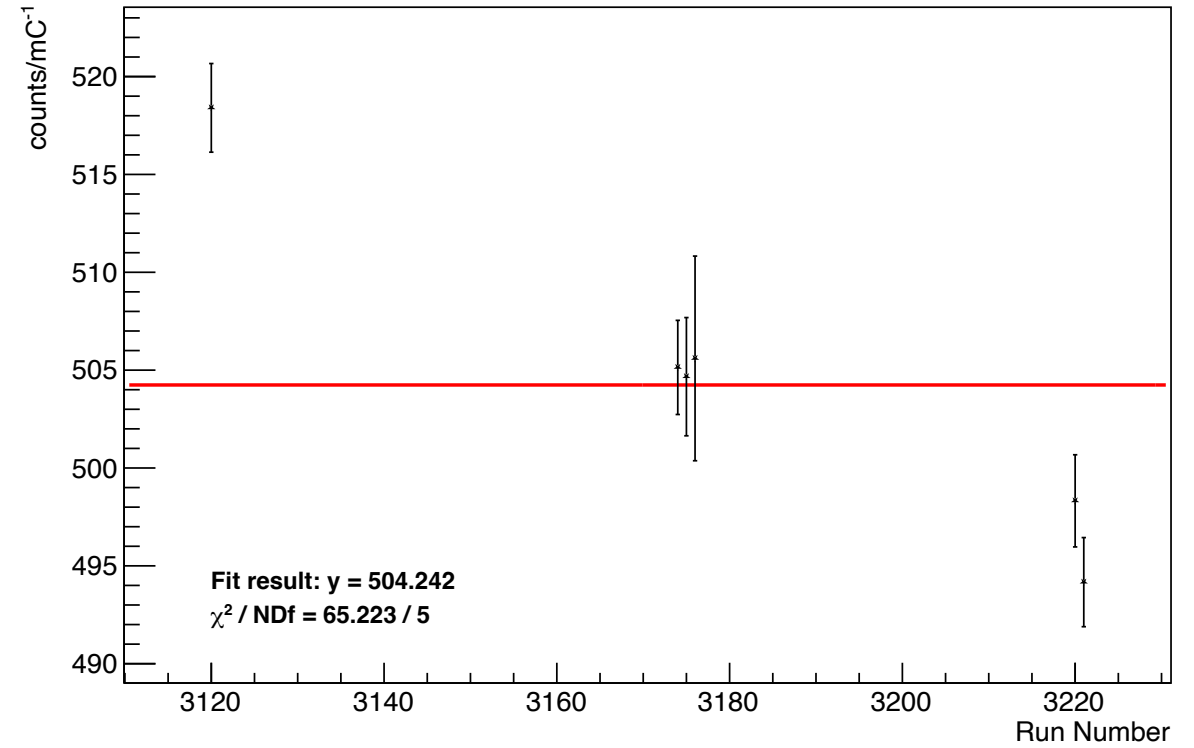
Kinc_x50_1'

Charge normalized DVCS events(LD2)



LD2 15 μA

Charge normalized DVCS events(LH2)



LH2 33 μA