



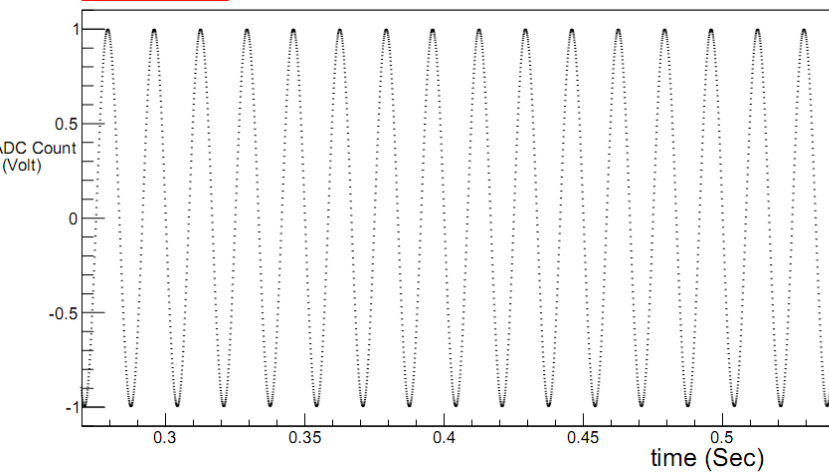
n³He DAQ

Current Status

1. Some Warm-Up Measurements
2. Background Noise Testing
3. Pre-Amp Testing
4. Averaging Samples

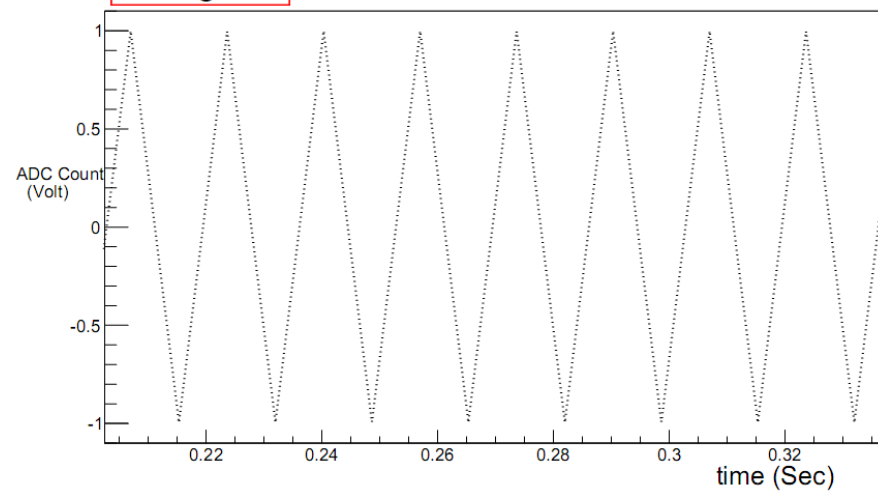
Sine

d[0]*0.0000012:0.0001*Entry\$



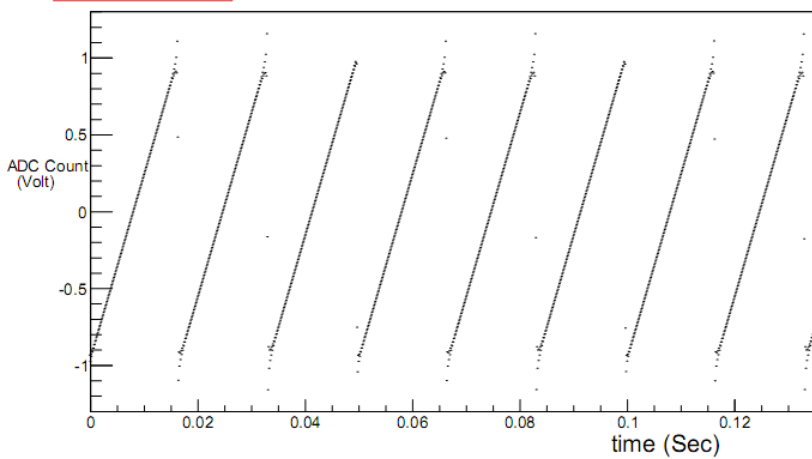
Triangular

d[0]*0.0000012:0.0001*Entry\$



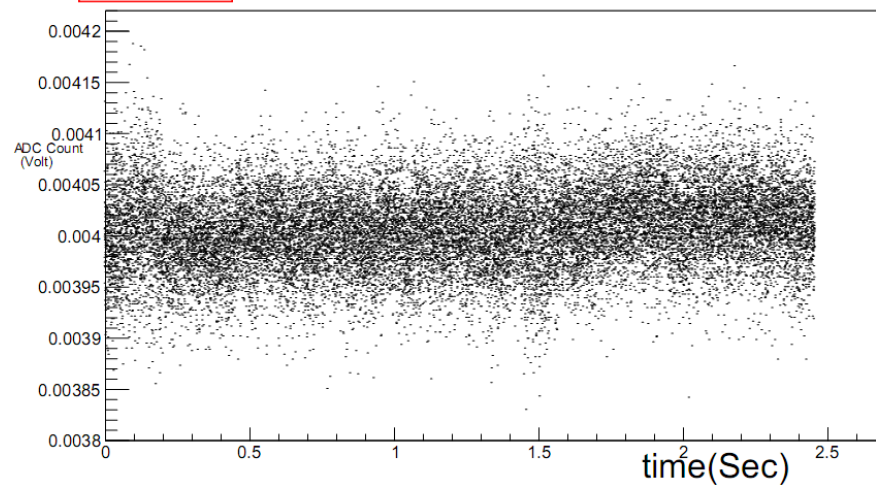
Saw-tooth

d[0]*0.0000012:0.0001*Entry\$

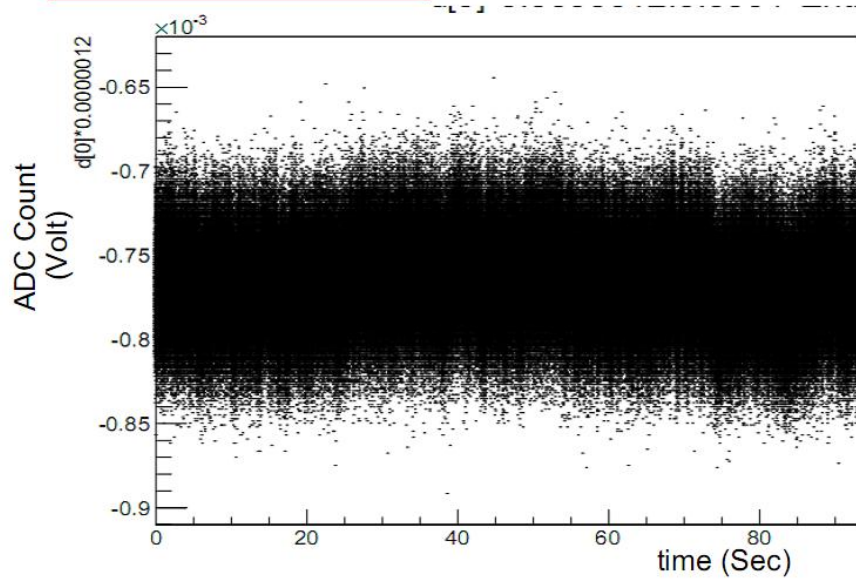


1MHz

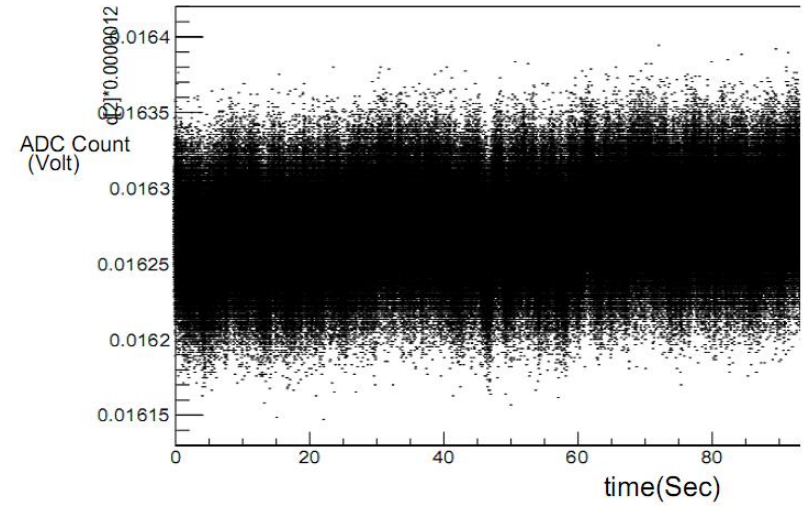
d[0]*0.0000012:0.0001*Entry\$



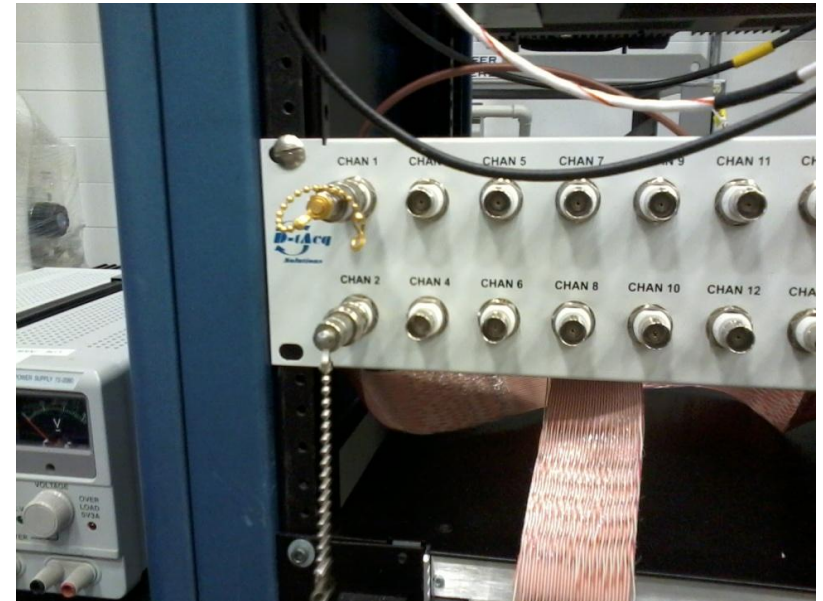
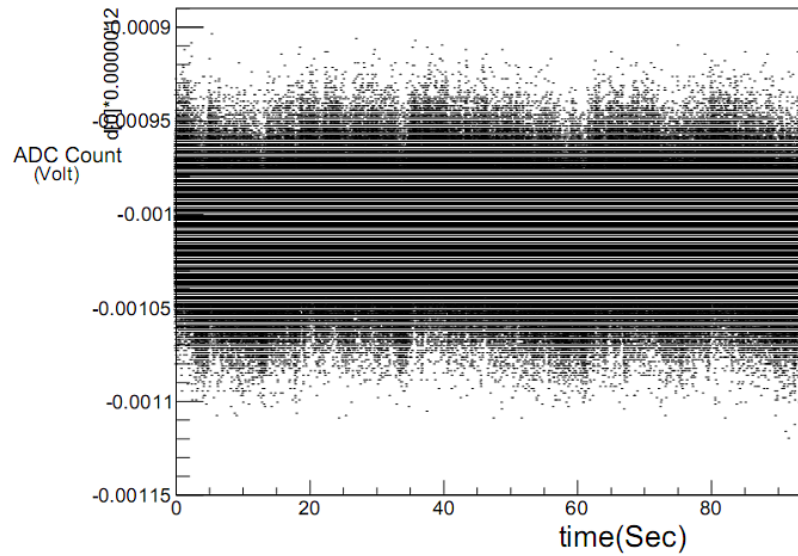
Background Noise for Ch-1

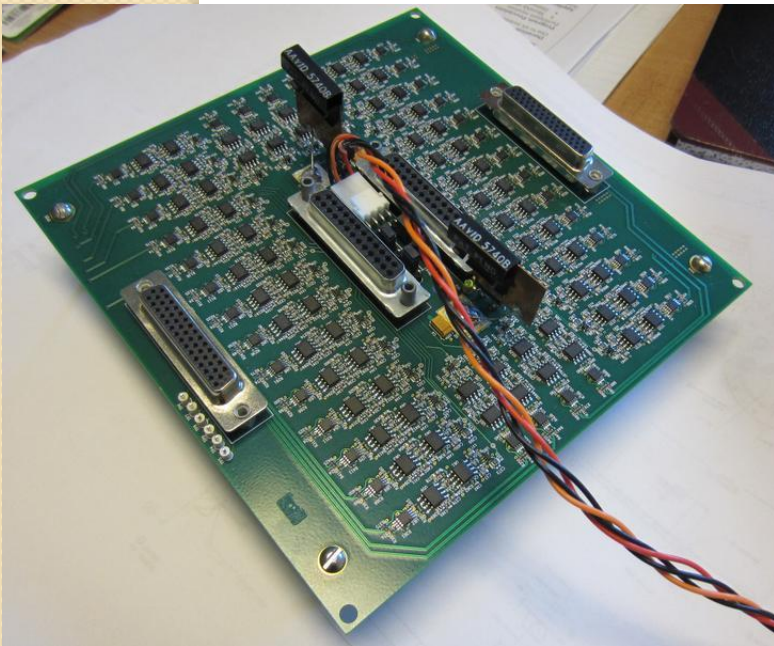


Background Noise: Ch-3



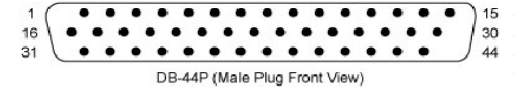
Channel-1 Shorted





I13
HEADER 44

44-Pin HD D-Sub Cable (HD44)



HD44

A 1	1	2	B 1
C 1	3	4	D 1
E 1	5	6	F 1
G 1	7	8	H 1
I 1	9	10	GND RING
GND RING	11	12	GND RING
GND RING	13	14	GND RING
GND RING	15	16	A 2
B 2	17	18	C 2
D 2	19	20	E 2
F 2	21	22	G 2
H 2	23	24	I 2
GND RING	25		

CON25A

A2 1	1	2	B2 1
C2 1	3	4	D2 1
E2 1	5	6	F2 1
G2 1	7	8	H2 1
I2 1	9	10	GND RING
GND RING	11	12	GND RING
GND RING	13	14	GND RING
GND RING	15	16	A2 2
B2 2	17	18	C2 2
D2 2	19	20	E2 2
F2 2	21	22	G2 2
H2 2	23	24	I2 2
GND RING	25		

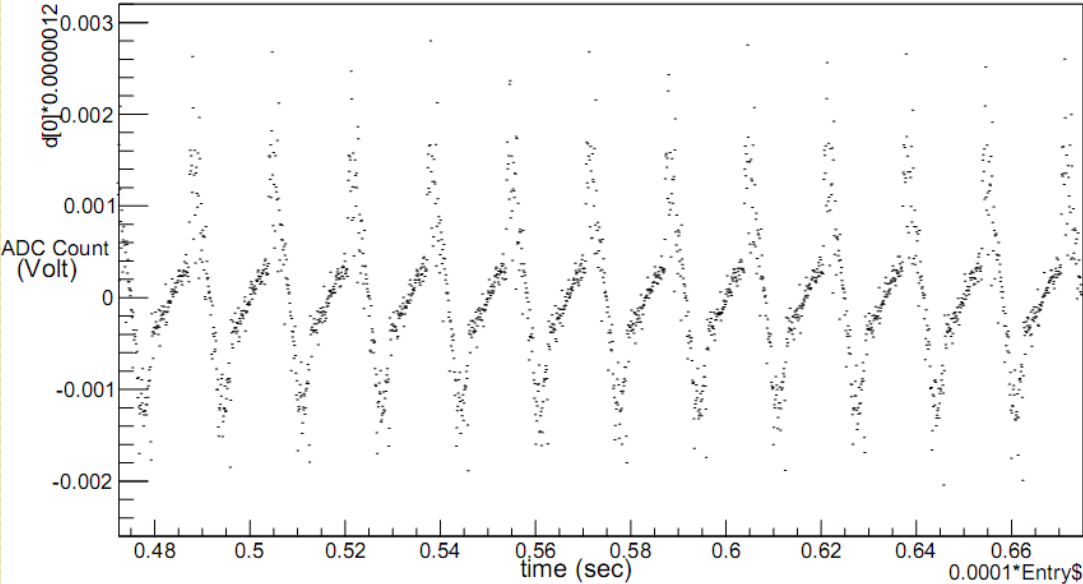
CON25A

1	A 1 Out+
2	A 1 Out-
3	B 1 Out+
4	B 1 Out-
5	C 1 Out+
6	C 1 Out-
7	D 1 Out+
8	D 1 Out-
9	E 1 Out+
10	E 1 Out-
11	F 1 Out+
12	F 1 Out-
13	G 1 Out+
14	G 1 Out-
15	
16	H 1 Out+
17	H 1 Out-
18	I 1 Out+
19	I 1 Out-
20	A 2 Out+
21	A 2 Out-
22	B 2 Out+
23	B 2 Out-
24	C 2 Out+
25	C 2 Out-
26	D 2 Out+
27	D 2 Out-
28	E 2 Out+
29	E 2 Out-
30	
31	F 2 Out+
32	F 2 Out-
33	G 2 Out+
34	G 2 Out-
35	H 2 Out+
36	H 2 Out-
37	I 2 Out+
38	I 2 Out-
39	
40	
41	
42	GND_ADC
43	GND_ADC
44	GND_ADC

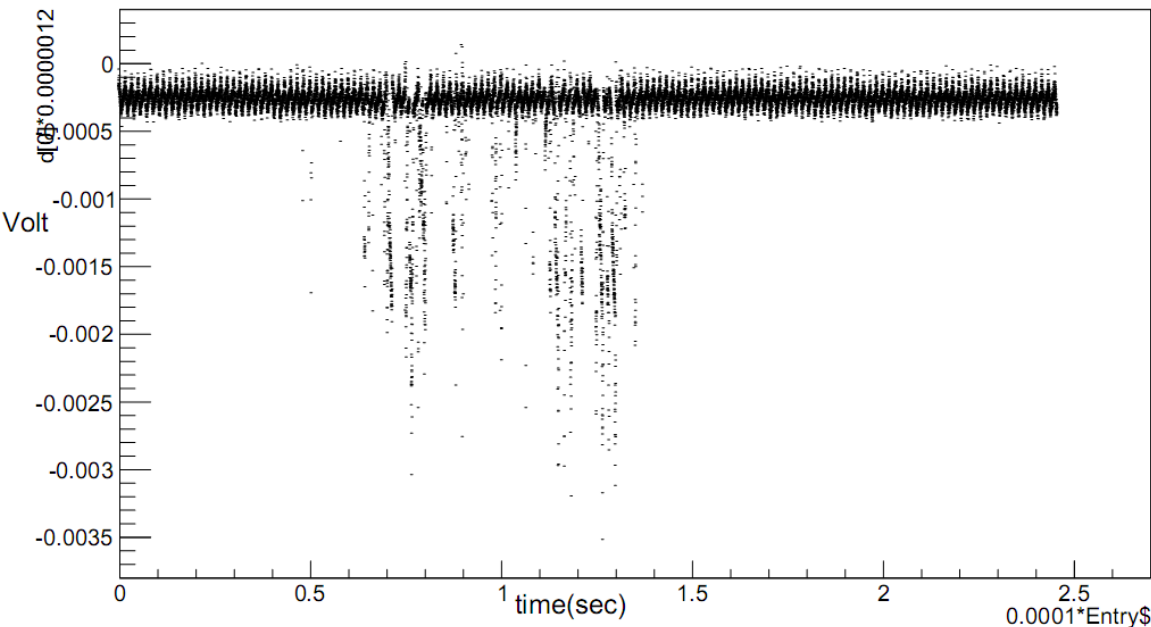
TP15	WHT	1
TP16	WHT	1
TP17	WHT	1
TP18	WHT	1
TP19	WHT	1
TP20	WHT	1
TP21	WHT	1
TP22	WHT	1
TP23	WHT	1
TP24	WHT	1
TP25	WHT	1
TP26	WHT	1
TP27	WHT	1
TP28	WHT	1
TP29	WHT	1
TP30	WHT	1
TP31	WHT	1
TP32	WHT	1
TP33	WHT	1
TP34	WHT	1
TP35	WHT	1
TP36	WHT	1
TP37	WHT	1
TP38	WHT	1
TP39	WHT	1
TP40	WHT	1
TP41	WHT	1
TP42	WHT	1
TP43	WHT	1
TP44	WHT	1

Channel-I Pre-amp noise

$d[0]*0.0000012:0.0001*Entry\$$

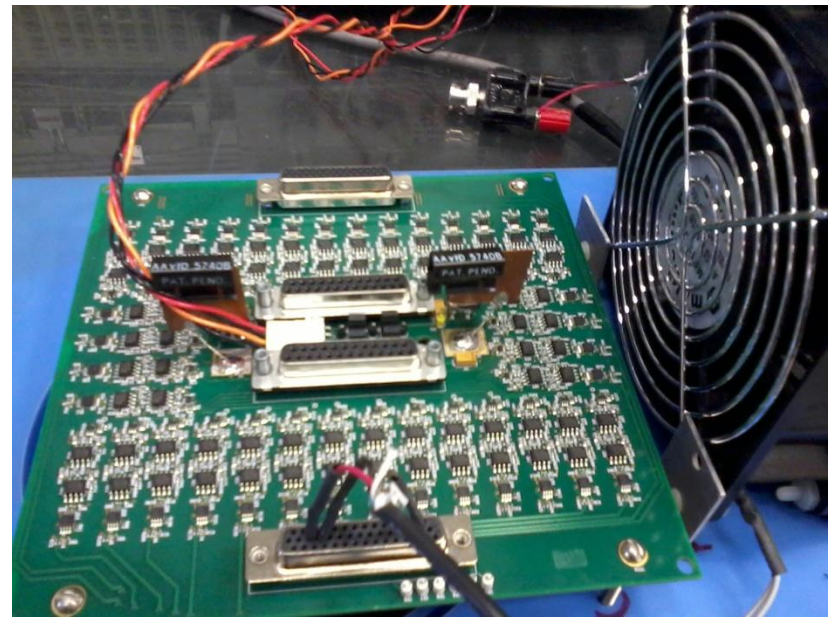
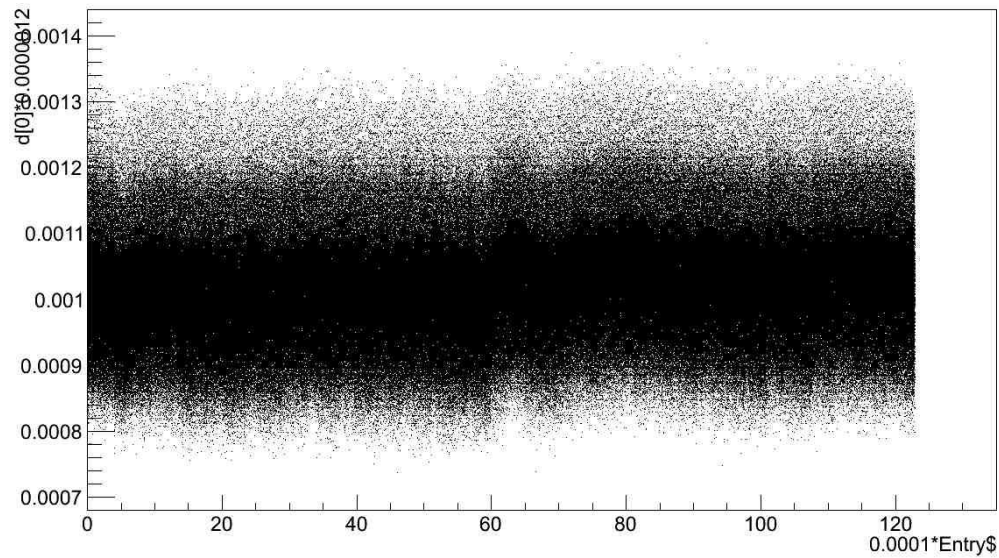


$d[0]*0.0000012:0.0001*Entry\$$

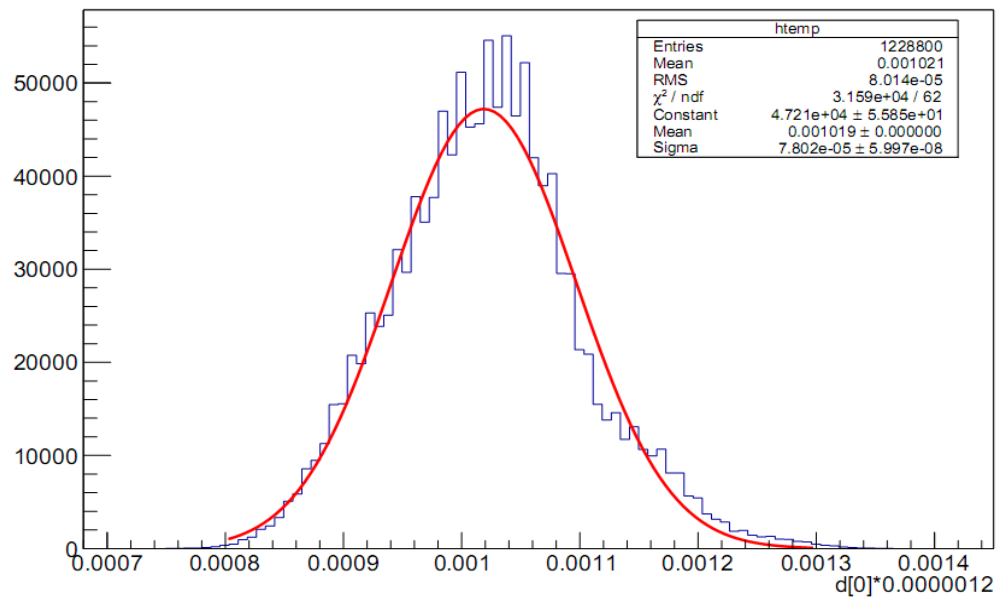


Channel G_I

$d[0]*0.0000012:0.0001*Entry\$$

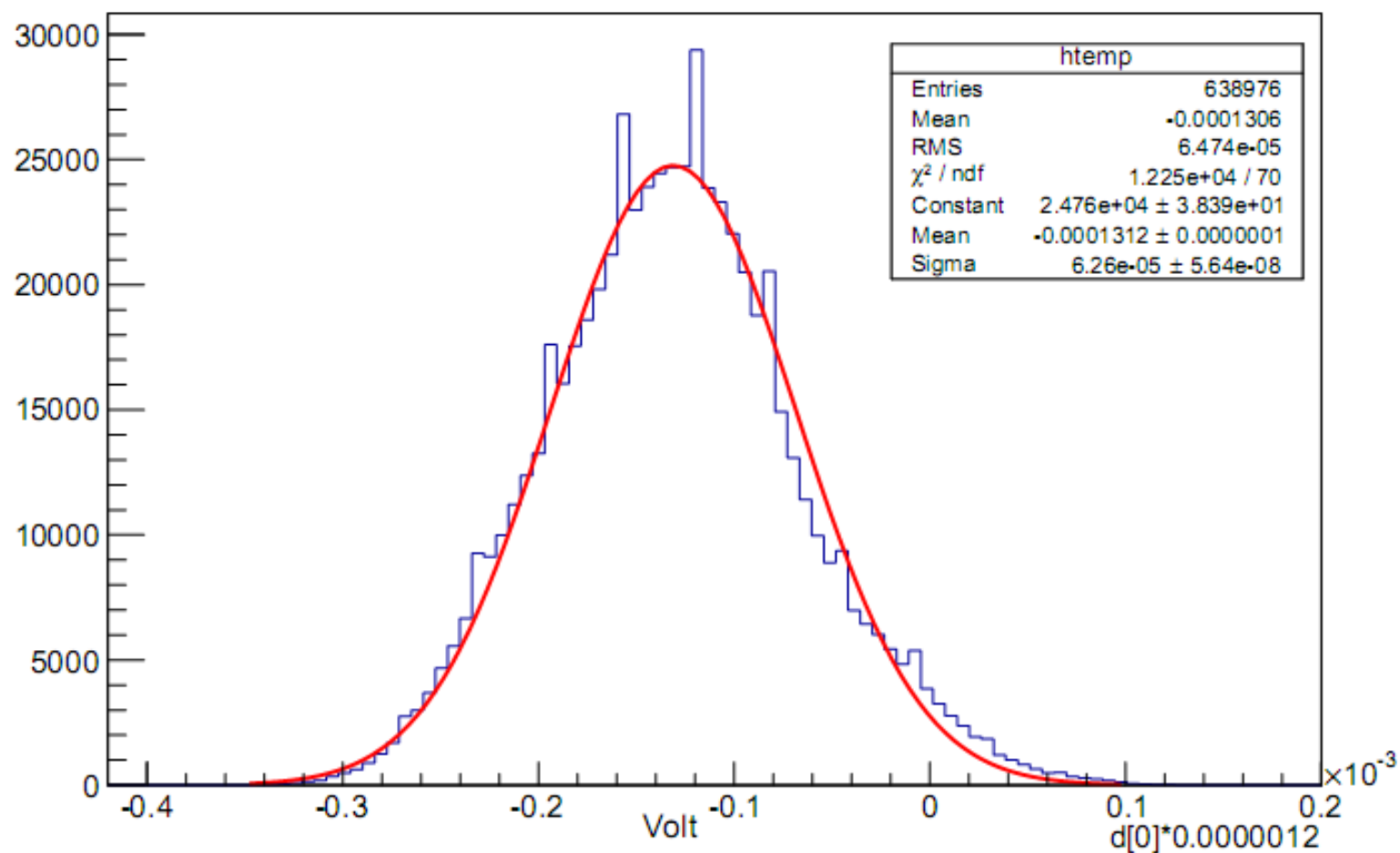


$d[0]*0.0000012$



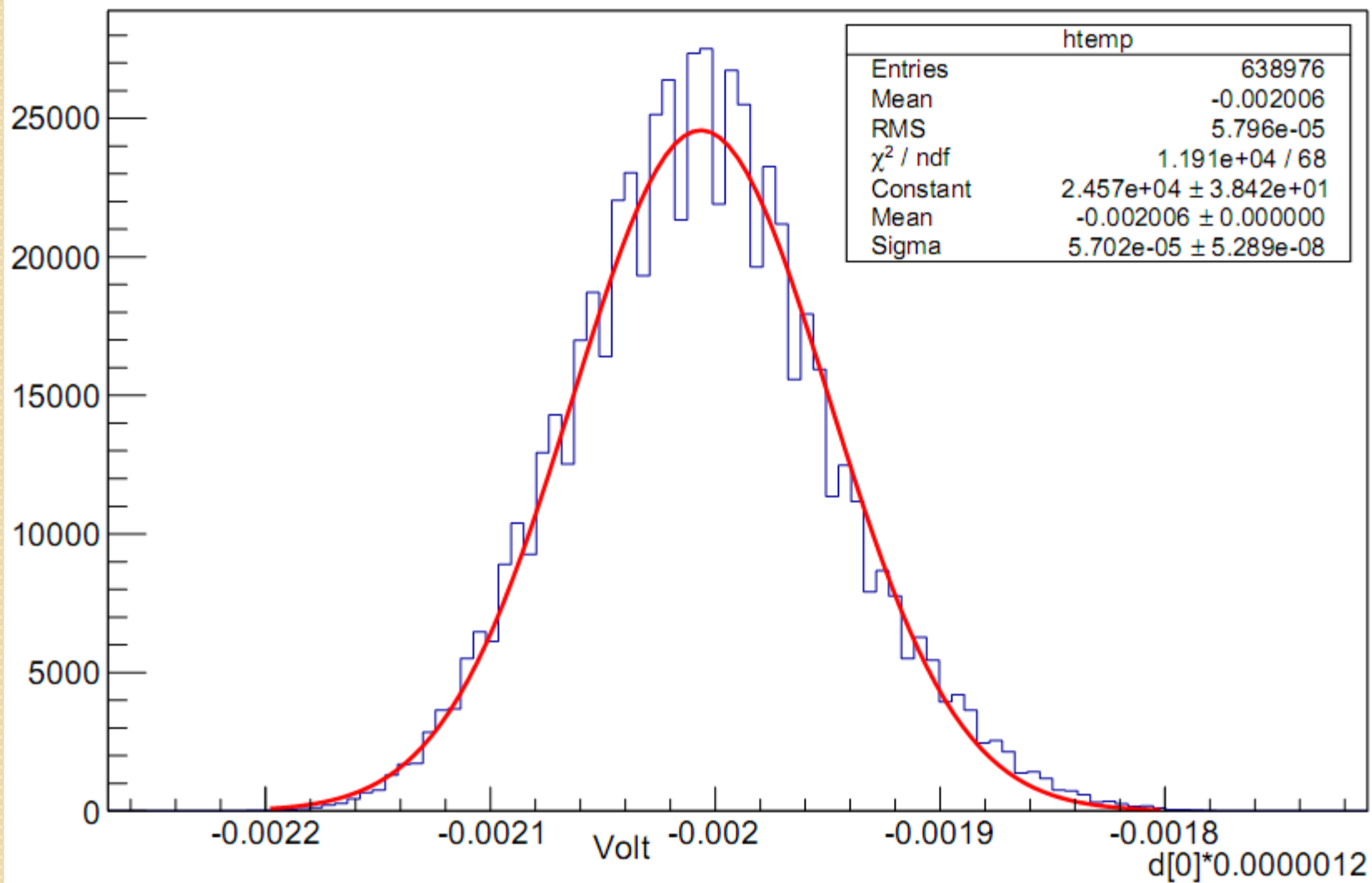
Channel 2 & 11 Shorted

$d[0] \cdot 0.0000012$



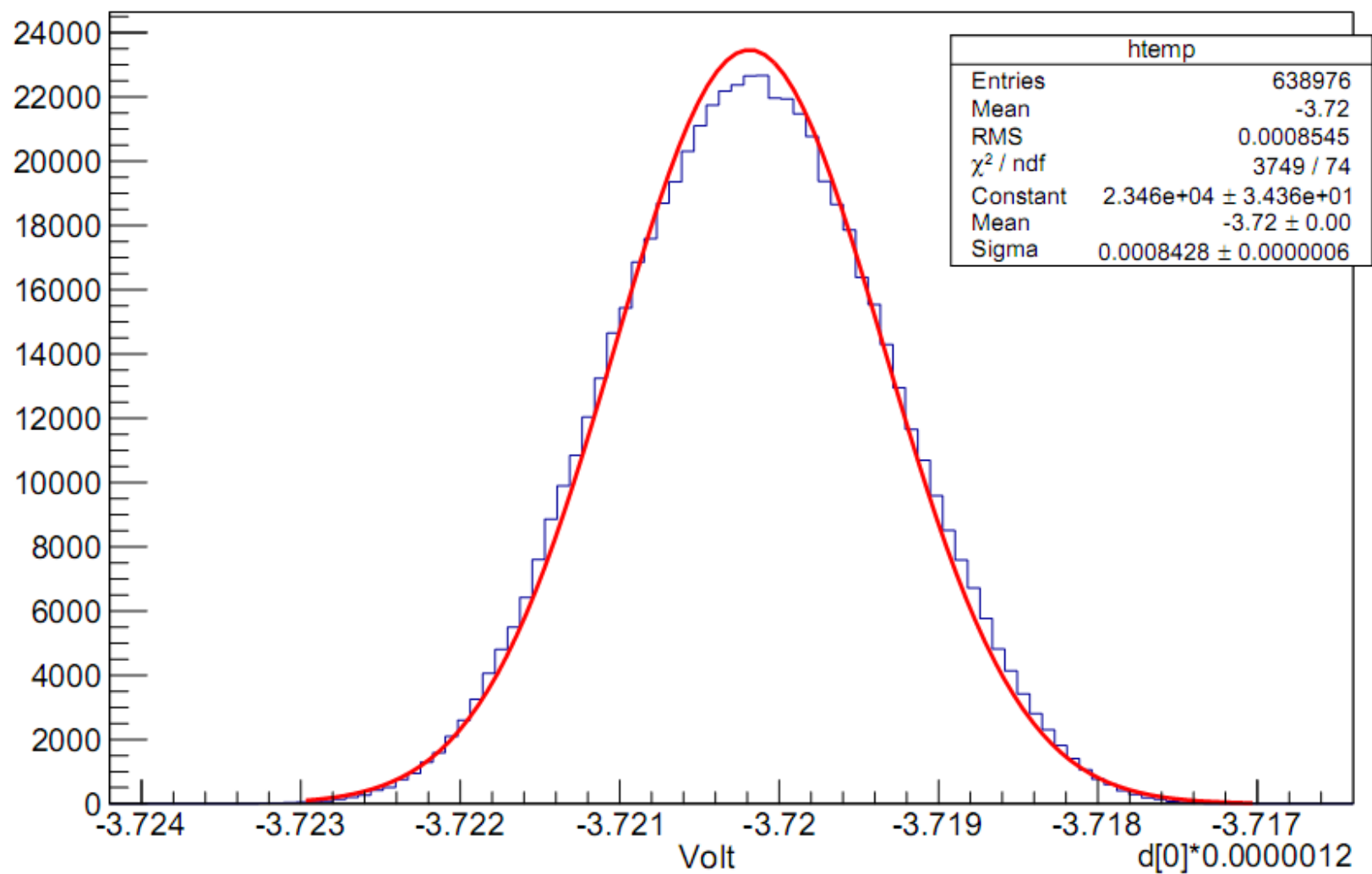
Channel 5 & 11 Shorted

d[0]*0.0000012



Channel 1 & 11 Shorted

d[0]*0.0000012



Averaging Samples: (Still working on this implementation)

- ❑ 41 bins for each channel of data
- ❑ the bins should be an average of 4 samples taken at 10kHz
- ❑ this will give us 16.4 ms of data
- ❑ We found some hints in the manual for averaging the sample.
- ❑ Could not locate relevant files/scripts. Planning to create ourselves and give a try.