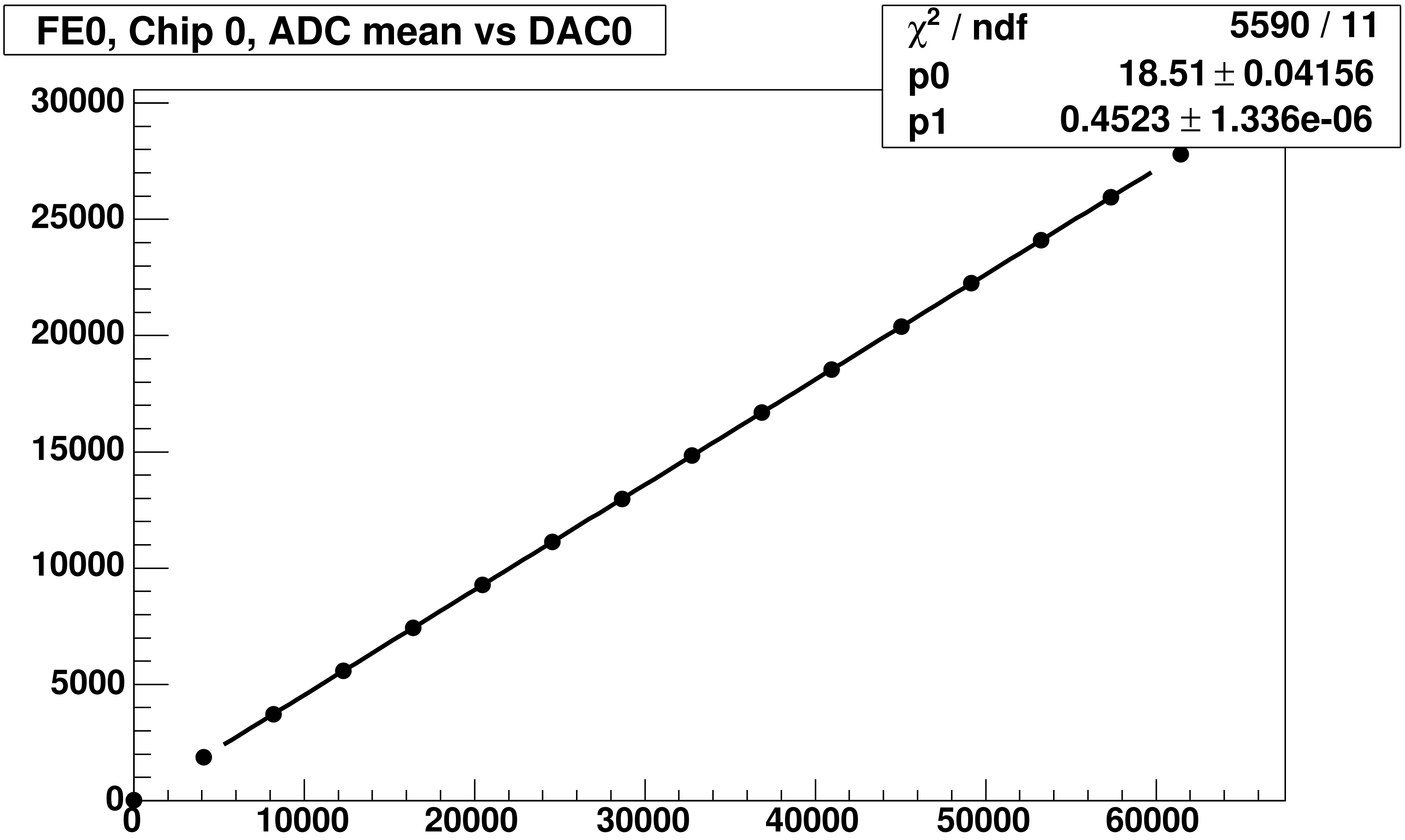
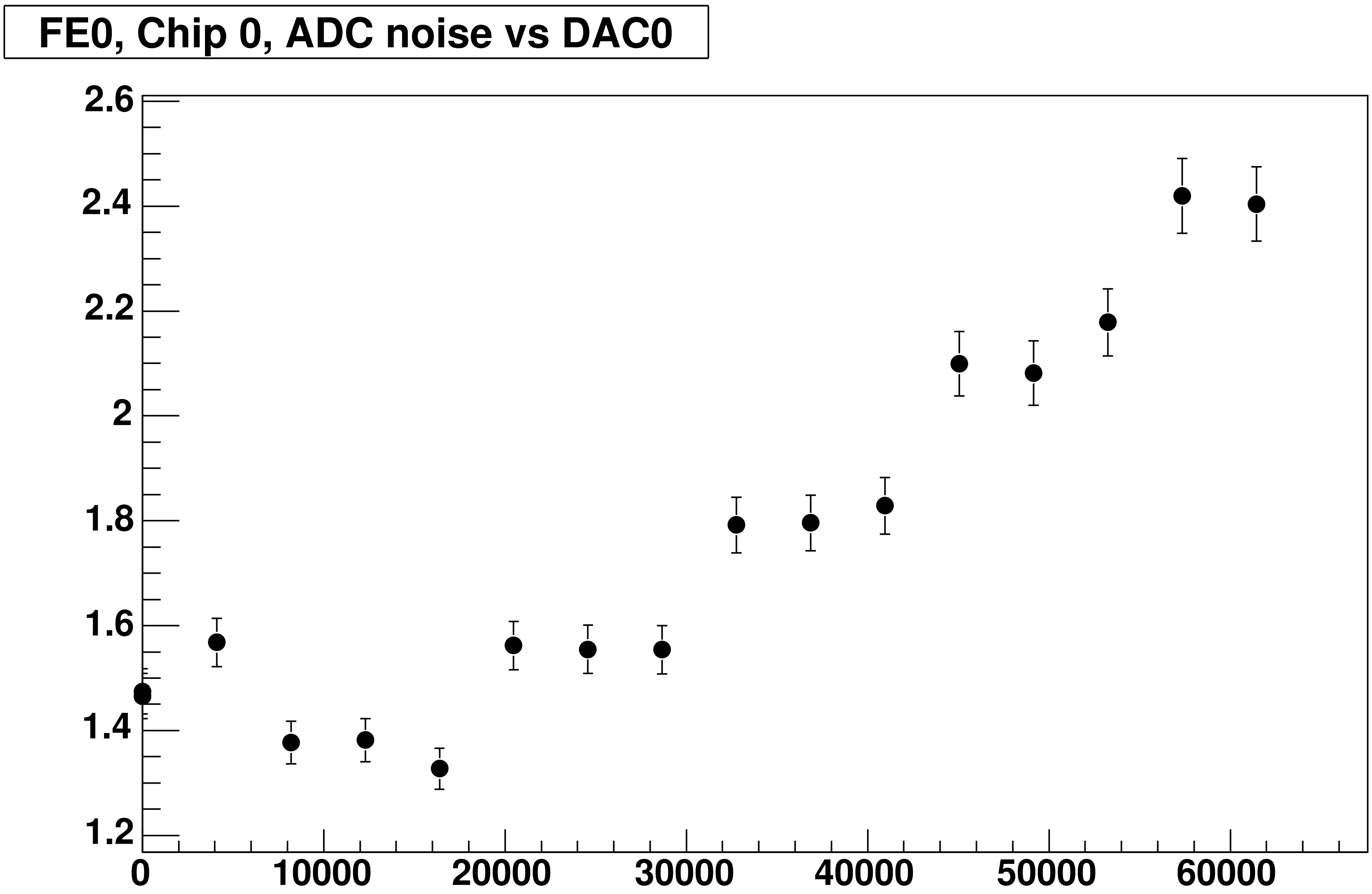
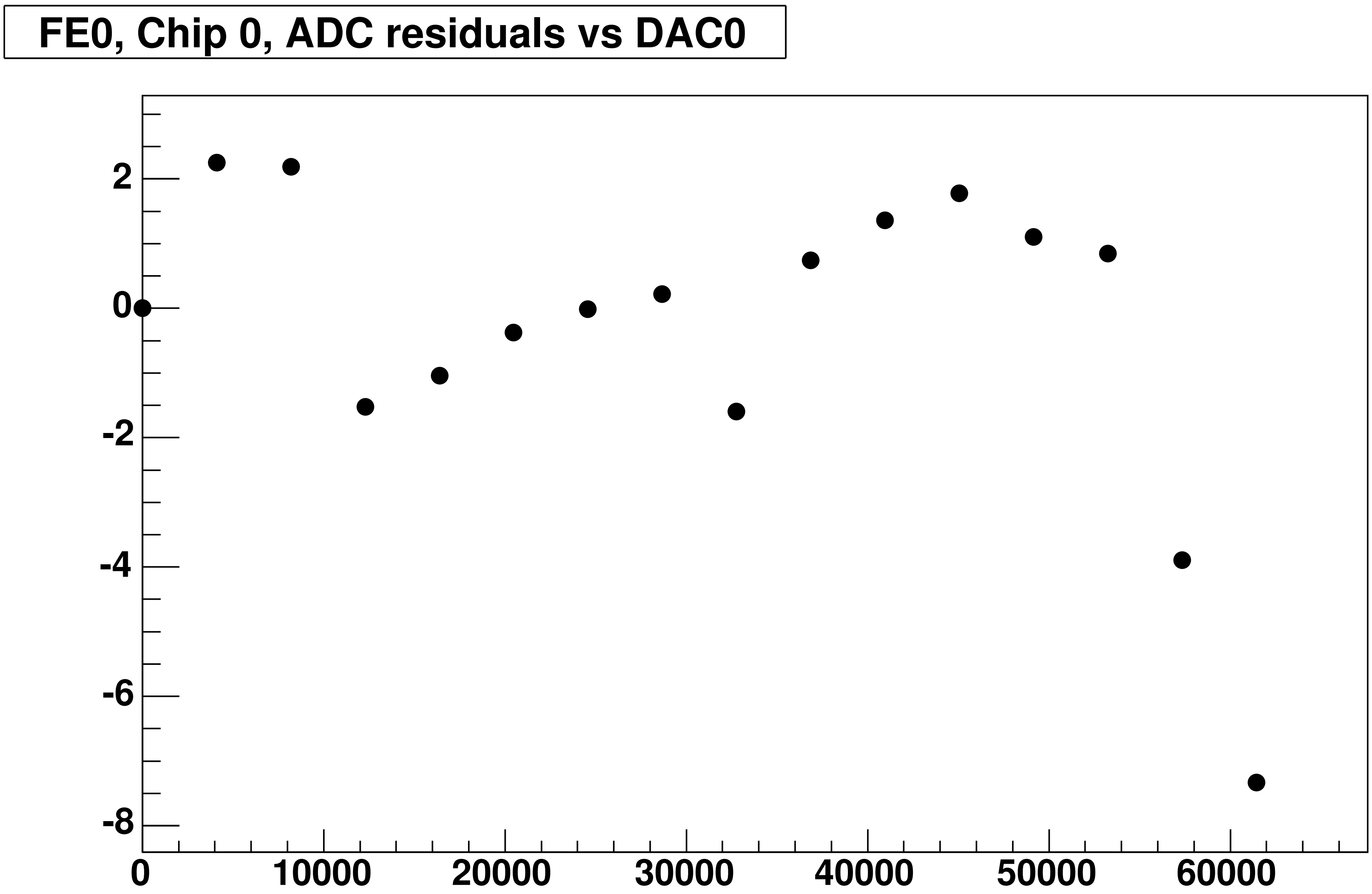
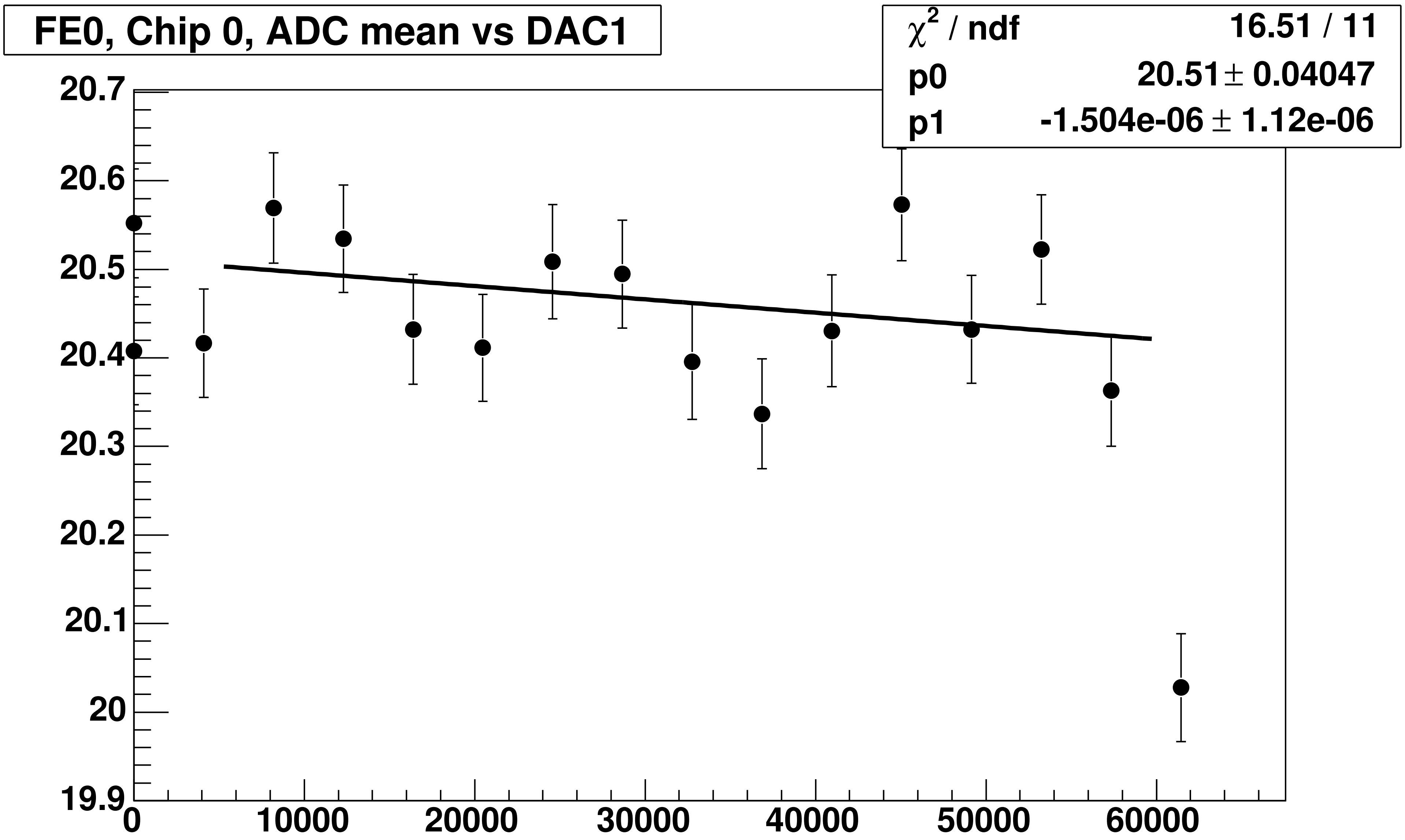
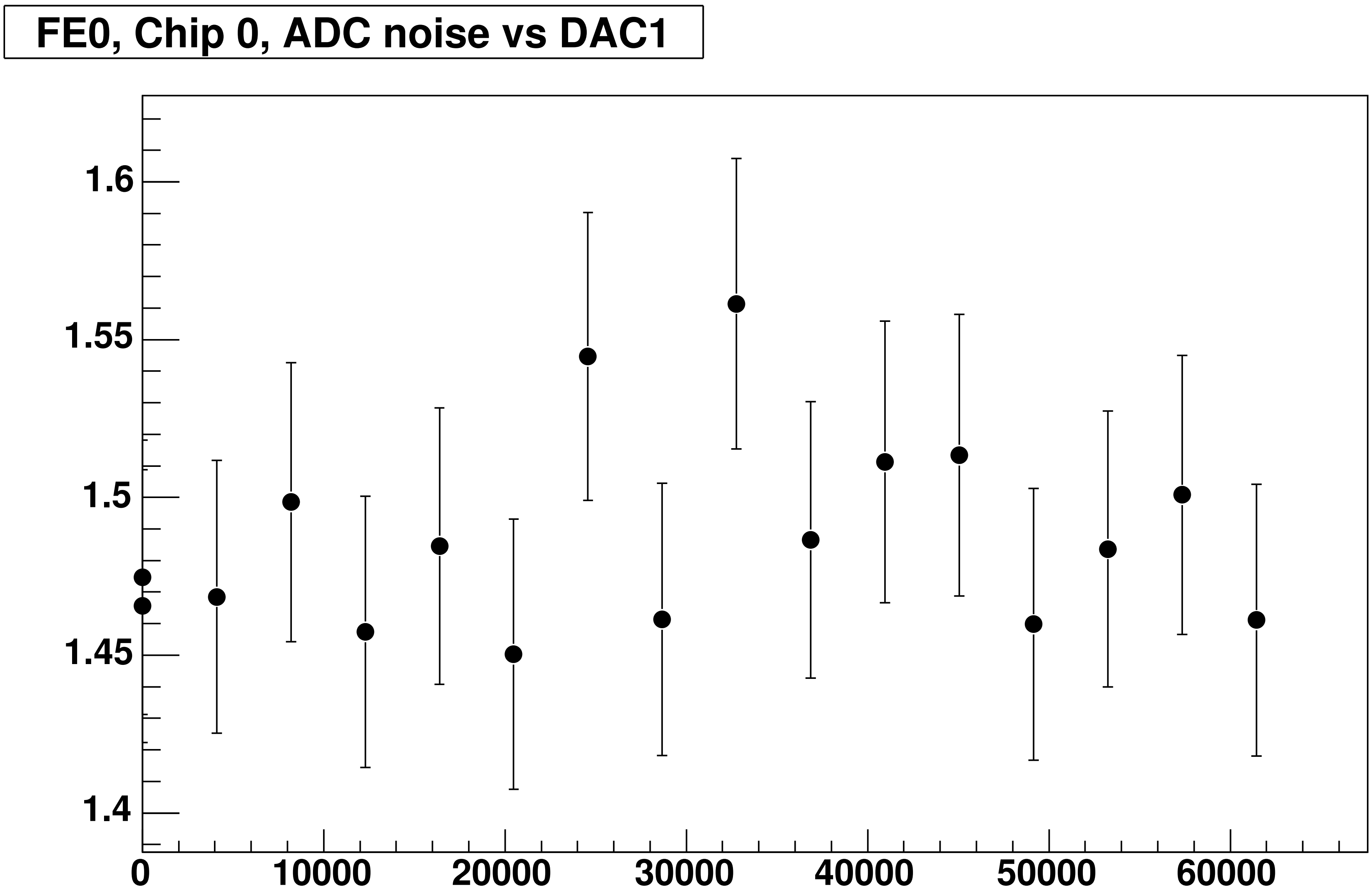
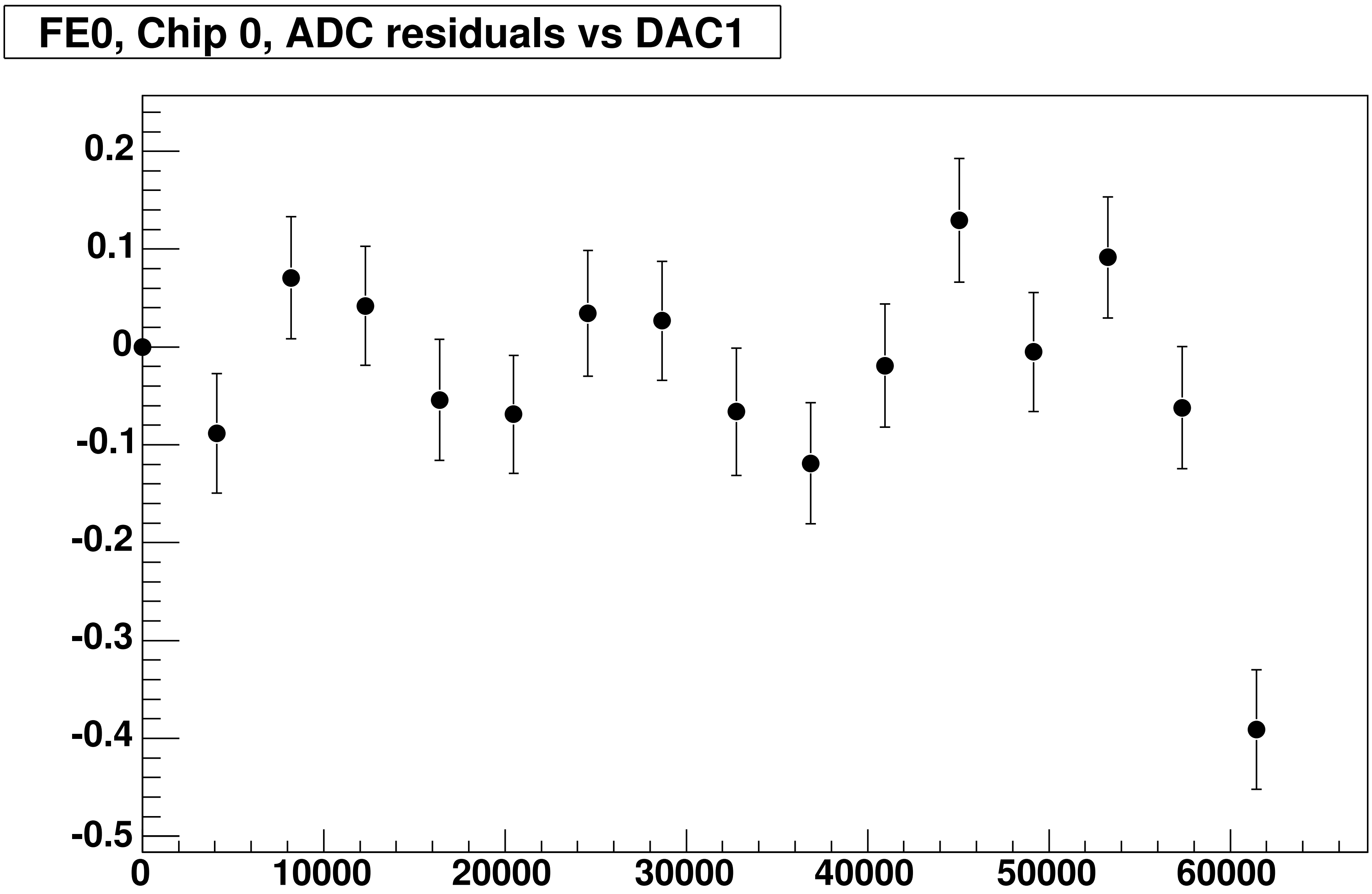

FE0, Chip 0, ADC mean vs DAC0
χ^2 / ndf 5590 / 11
p0 18.51 ± 0.04156
p1 0.4523 ± 1.336e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

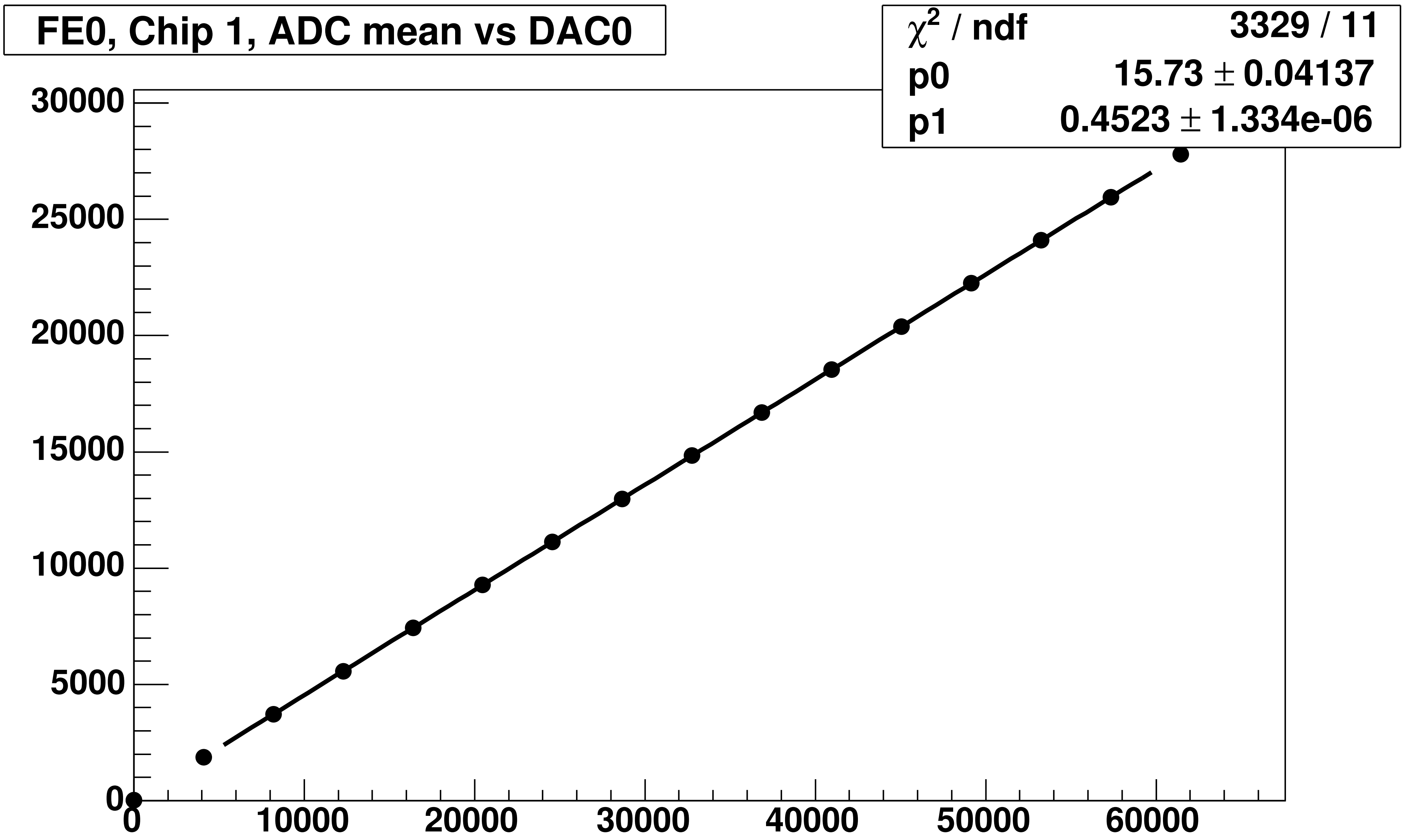

FE0, Chip 0, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE0, Chip 0, ADC residuals vs DAC0
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

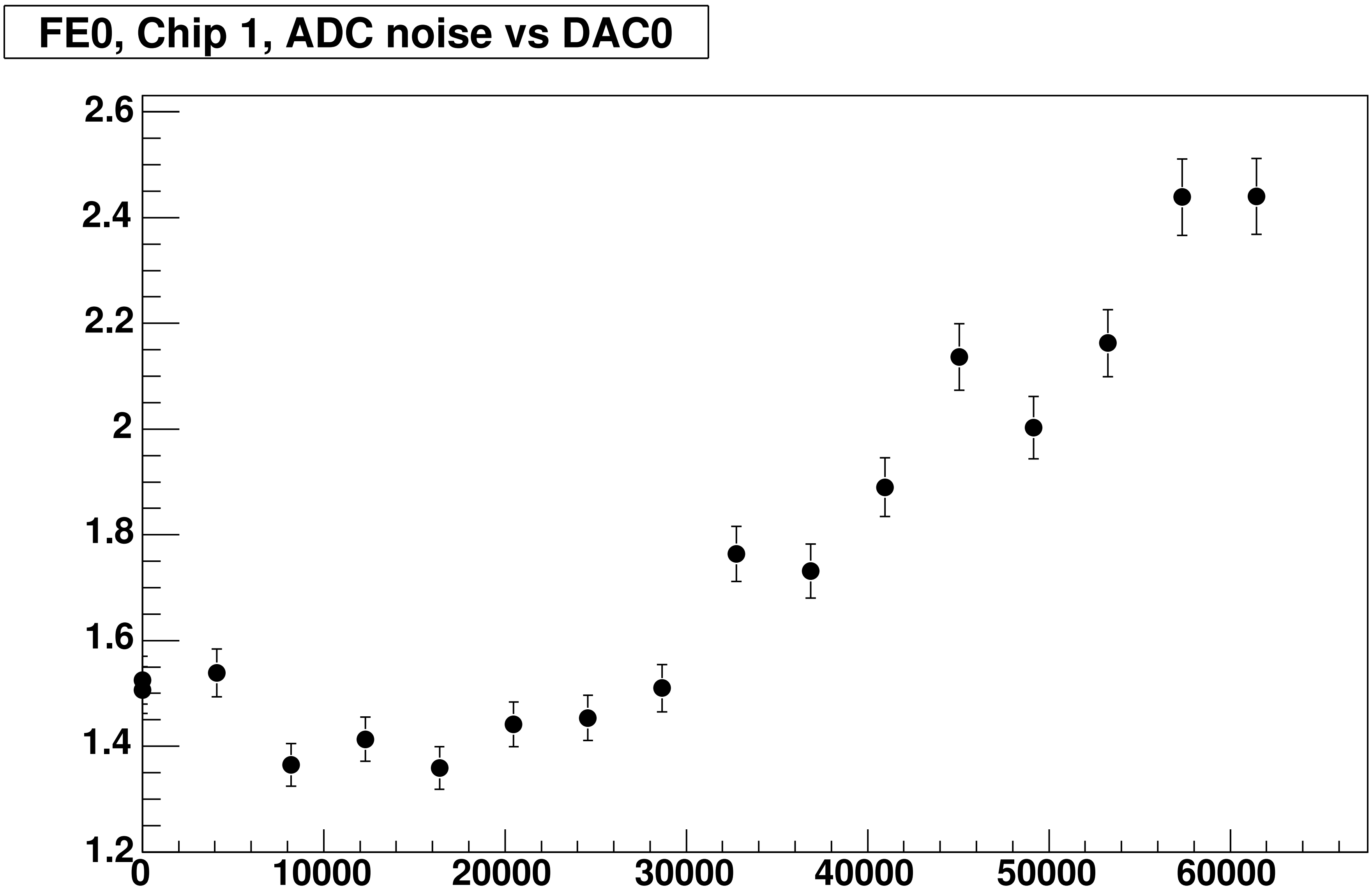

FE0, Chip 0, ADC mean vs DAC1
χ^2 / ndf 16.51 / 11
p0 20.51 ± 0.04047
p1 -1.504e-06 ± 1.12e-06
20.7
20.6
20.5
20.4
20.3
20.2
20.1
20
19.9
0
10000
20000
30000
40000
50000
60000

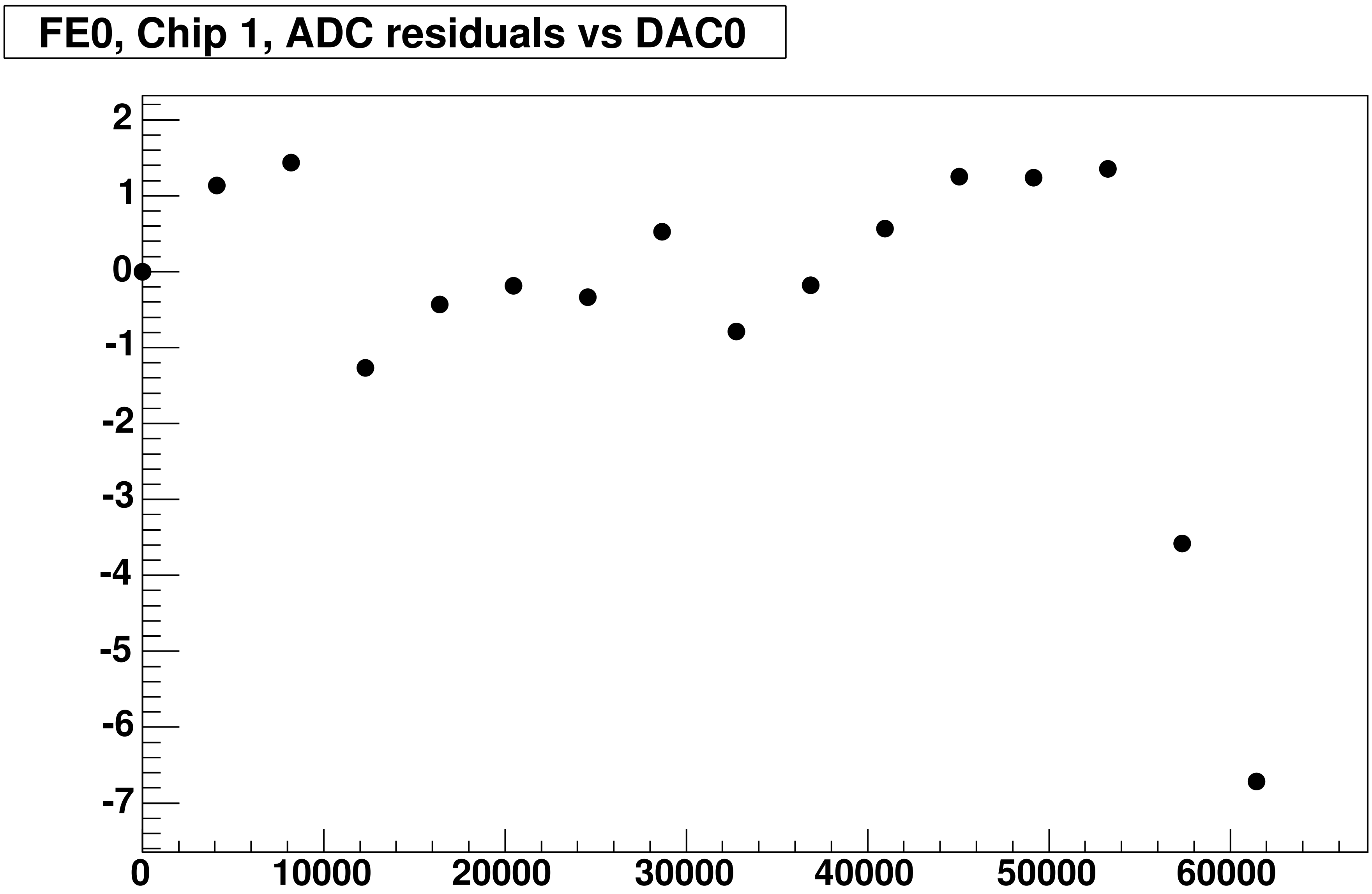

FE0, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

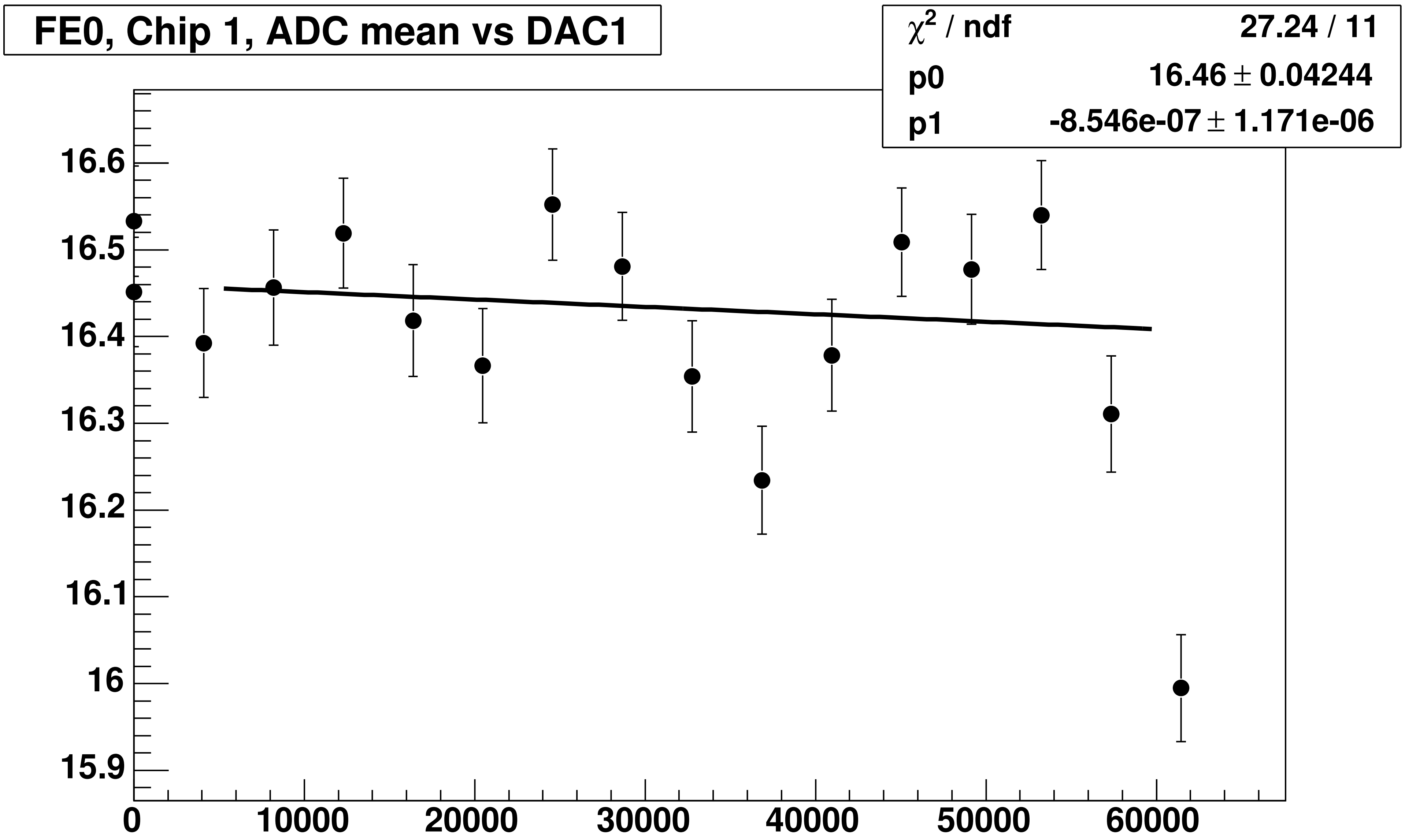

FE0, Chip 0, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

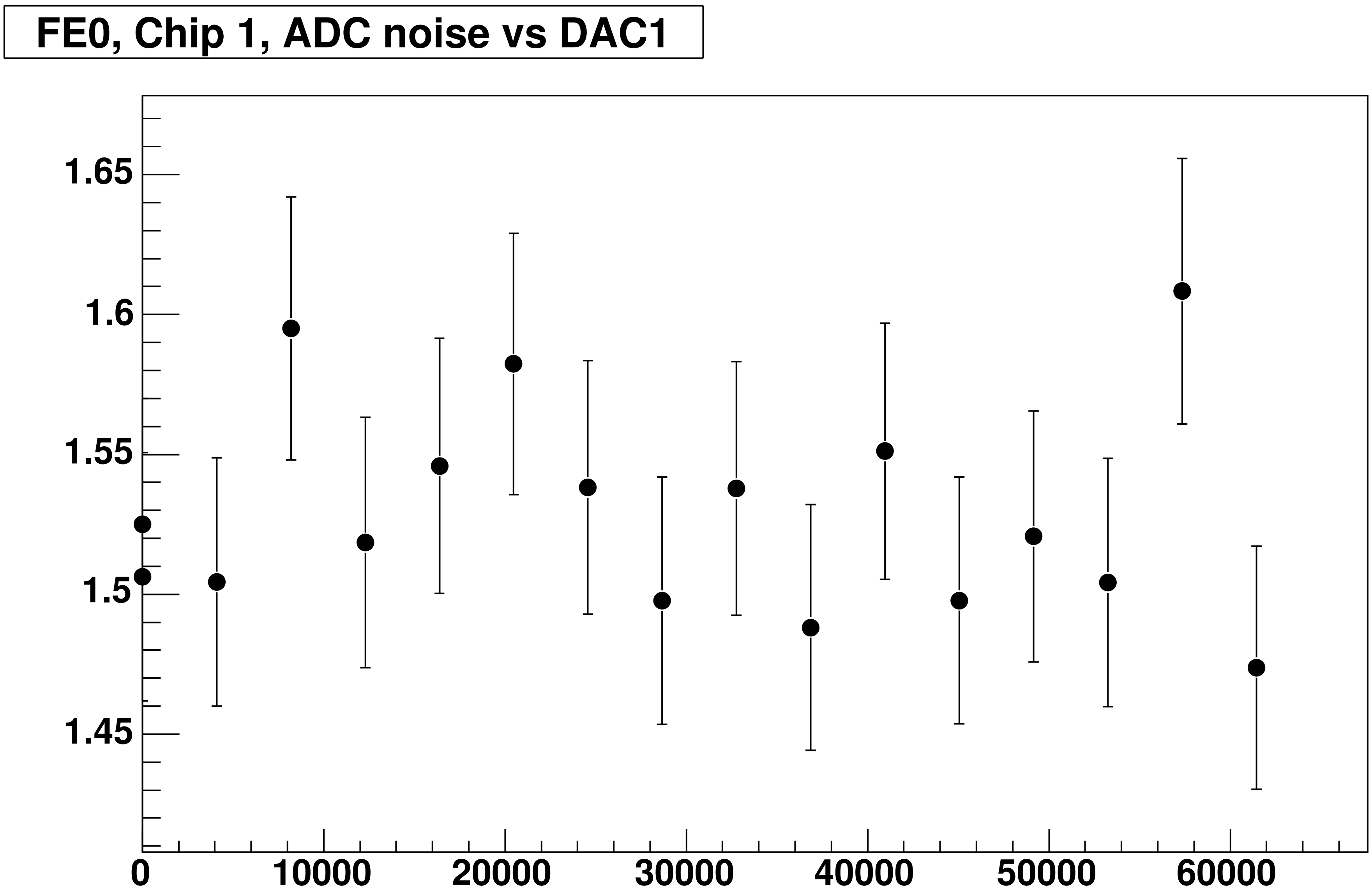


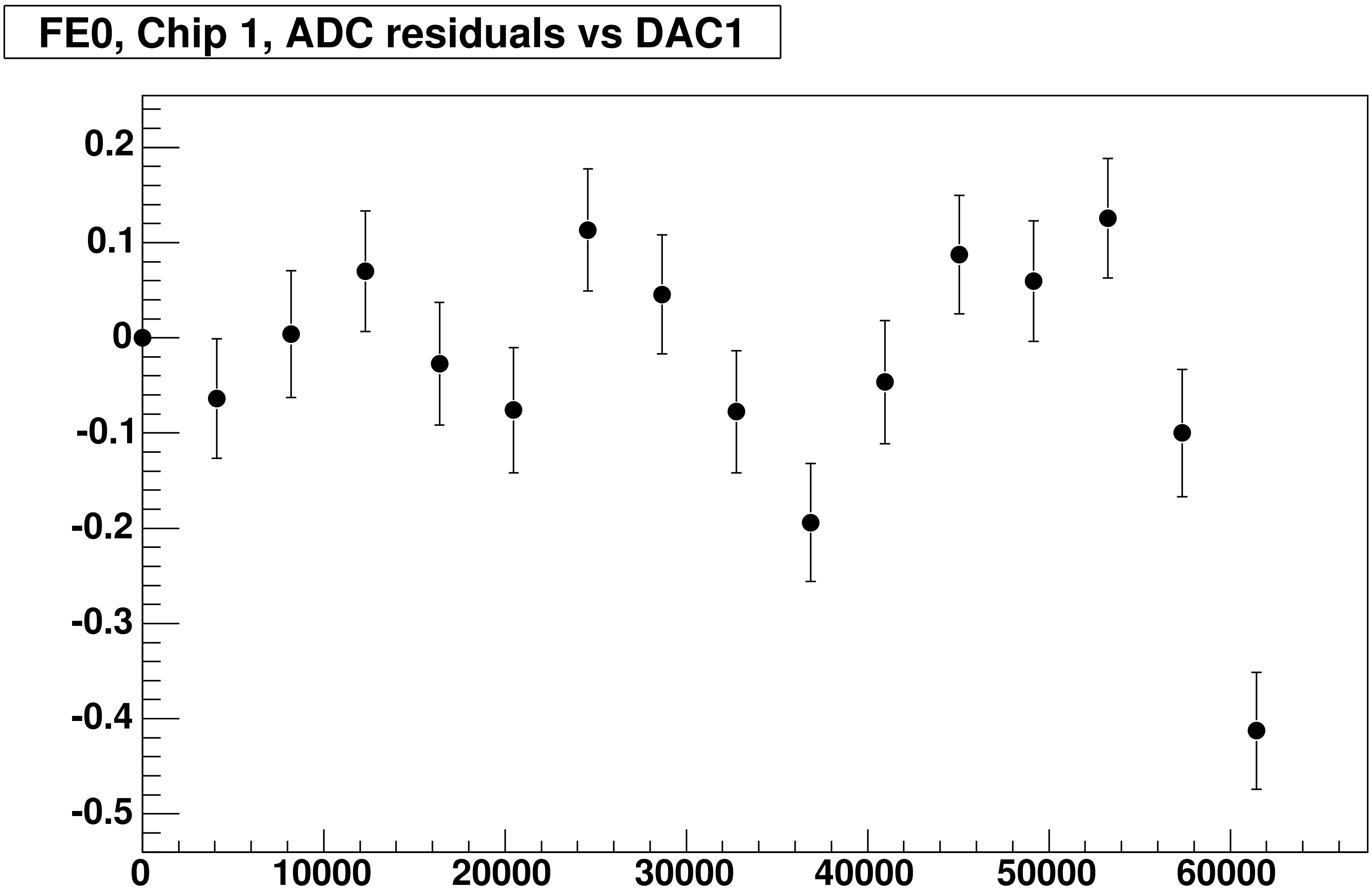
FE0, Chip 1, ADC mean vs DAC0
χ^2 / ndf 3329 / 11
p0 15.73 ± 0.04137
p1 0.4523 ± 1.334e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

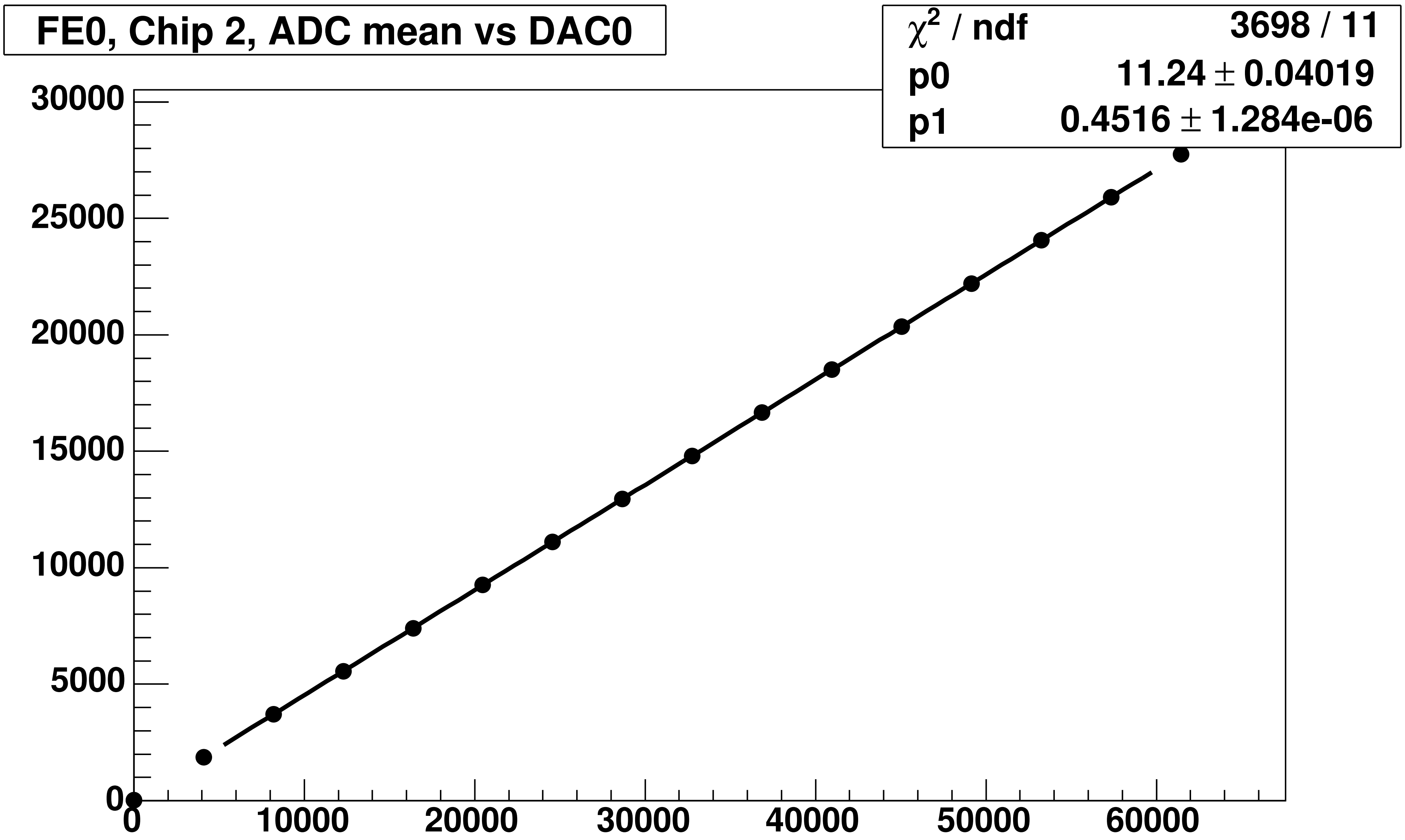

FE0, Chip 1, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

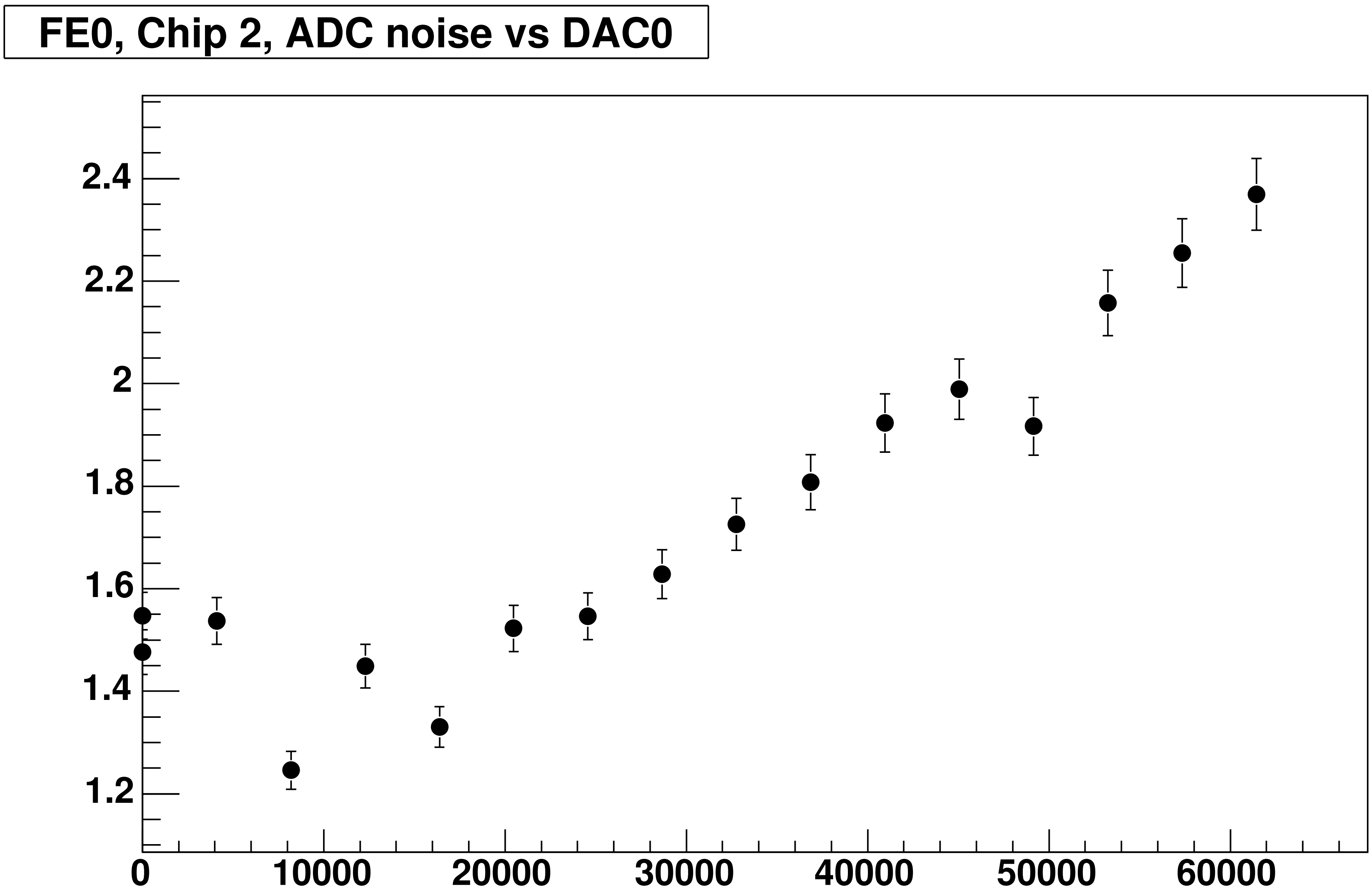

FE0, Chip 1, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

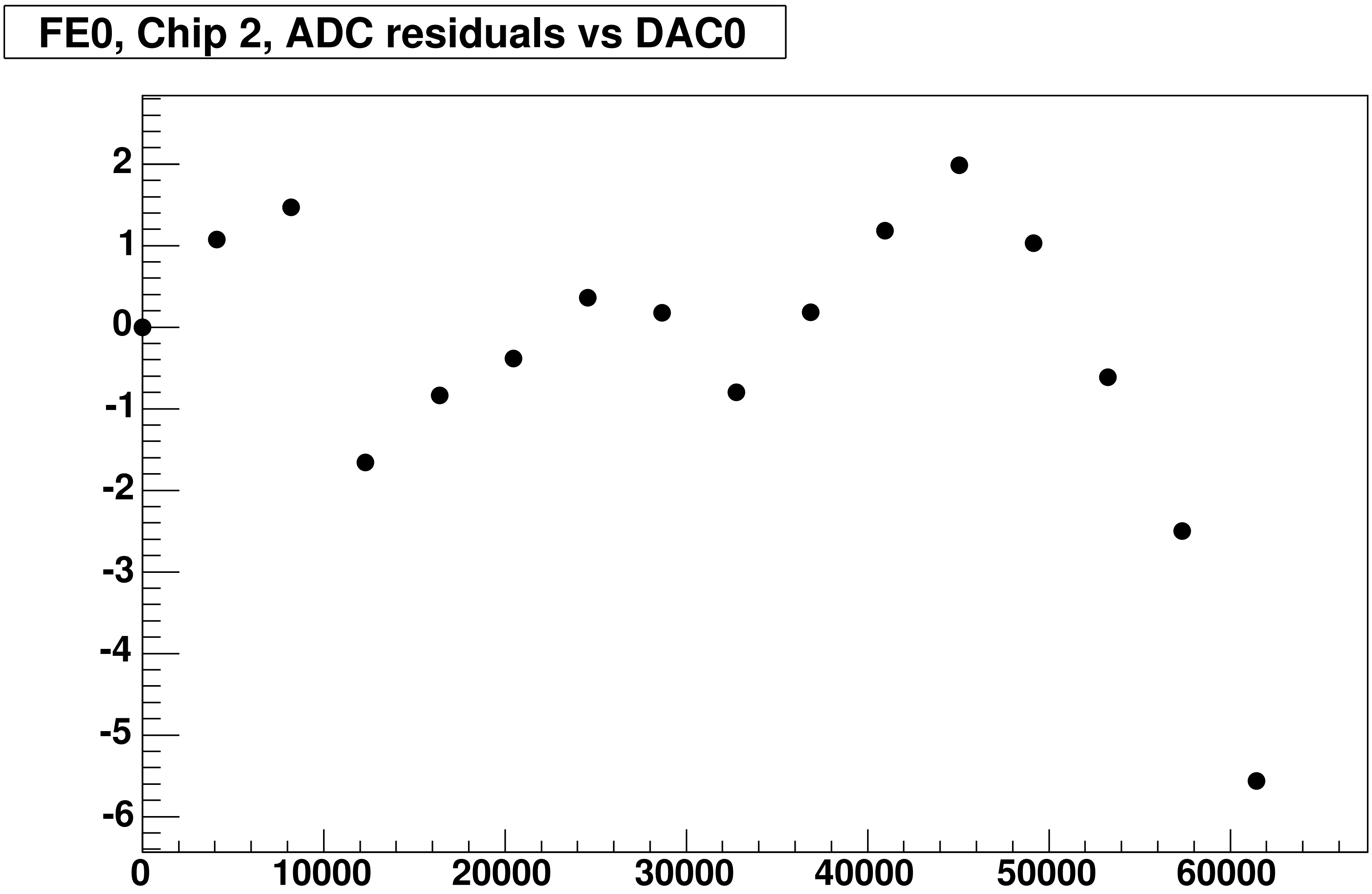

FE0, Chip 1, ADC mean vs DAC1
χ^2 / ndf 27.24 / 11
p0 16.46 ± 0.04244
p1 -8.546e-07 ± 1.171e-06
16.6
16.5
16.4
16.3
16.2
16.1
16
15.9
0
10000
20000
30000
40000
50000
60000


FE0, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

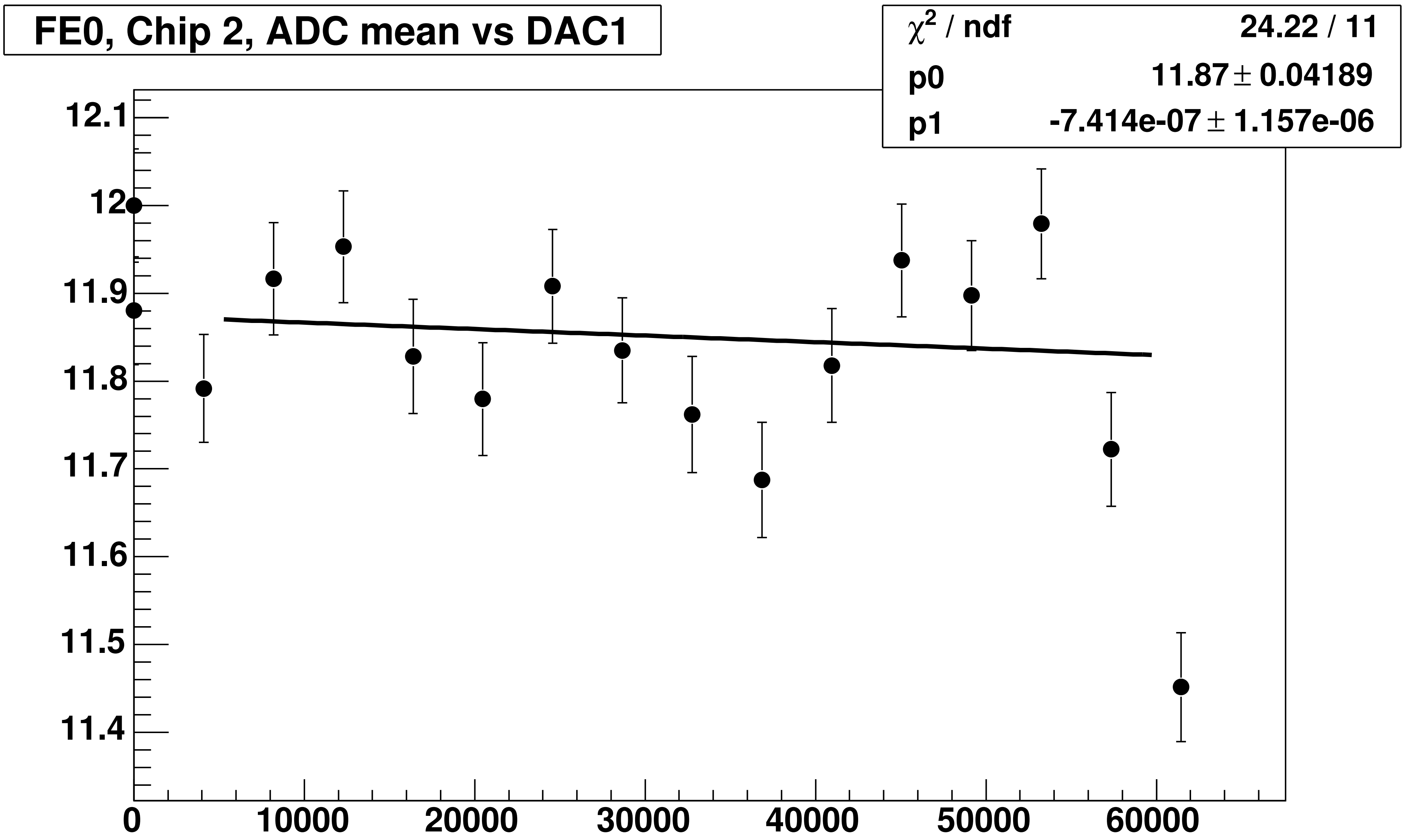

FE0, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

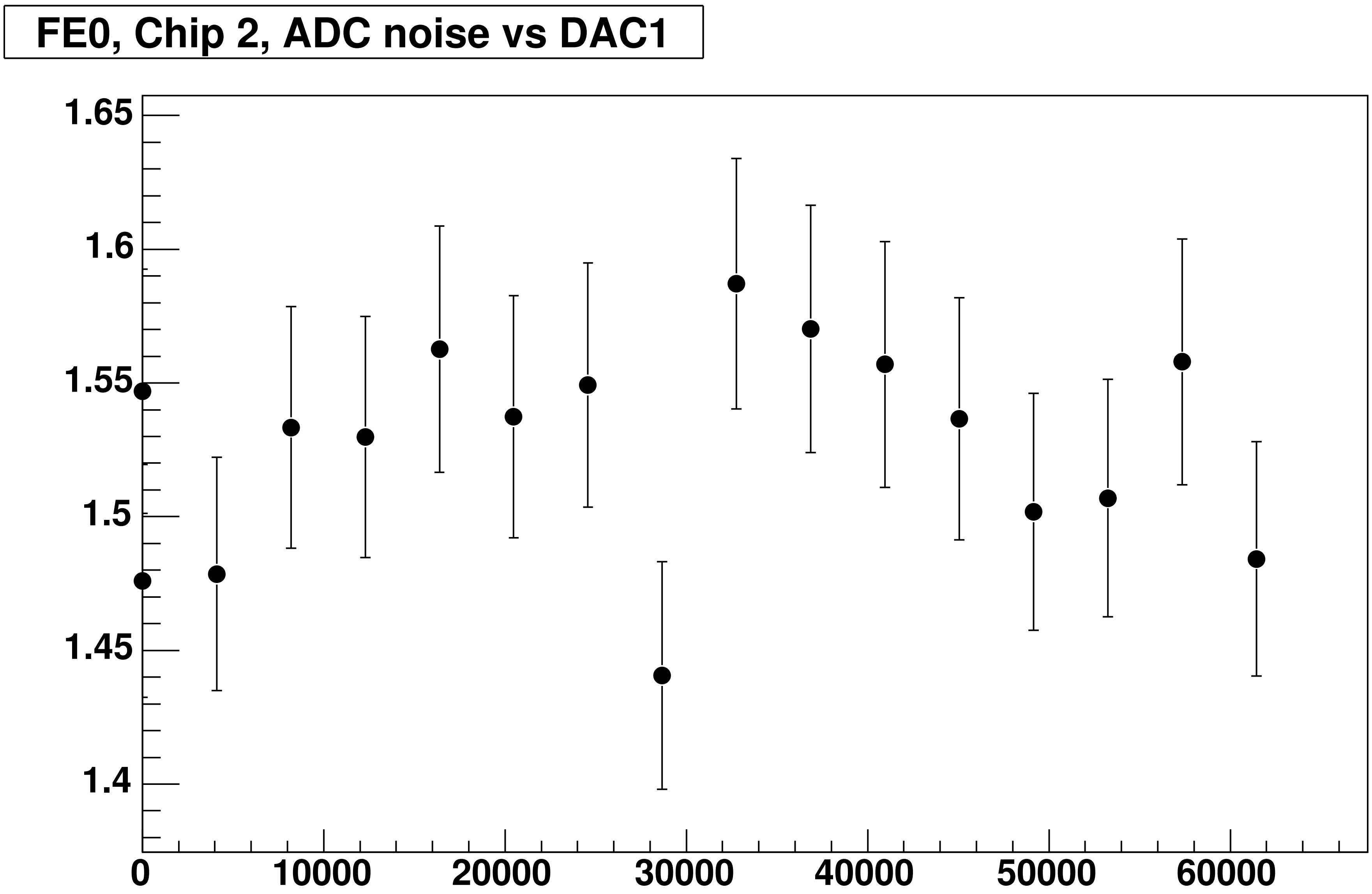

FE0, Chip 2, ADC mean vs DAC0
χ^2 / ndf 3698 / 11
p0 11.24 ± 0.04019
p1 0.4516 ± 1.284e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

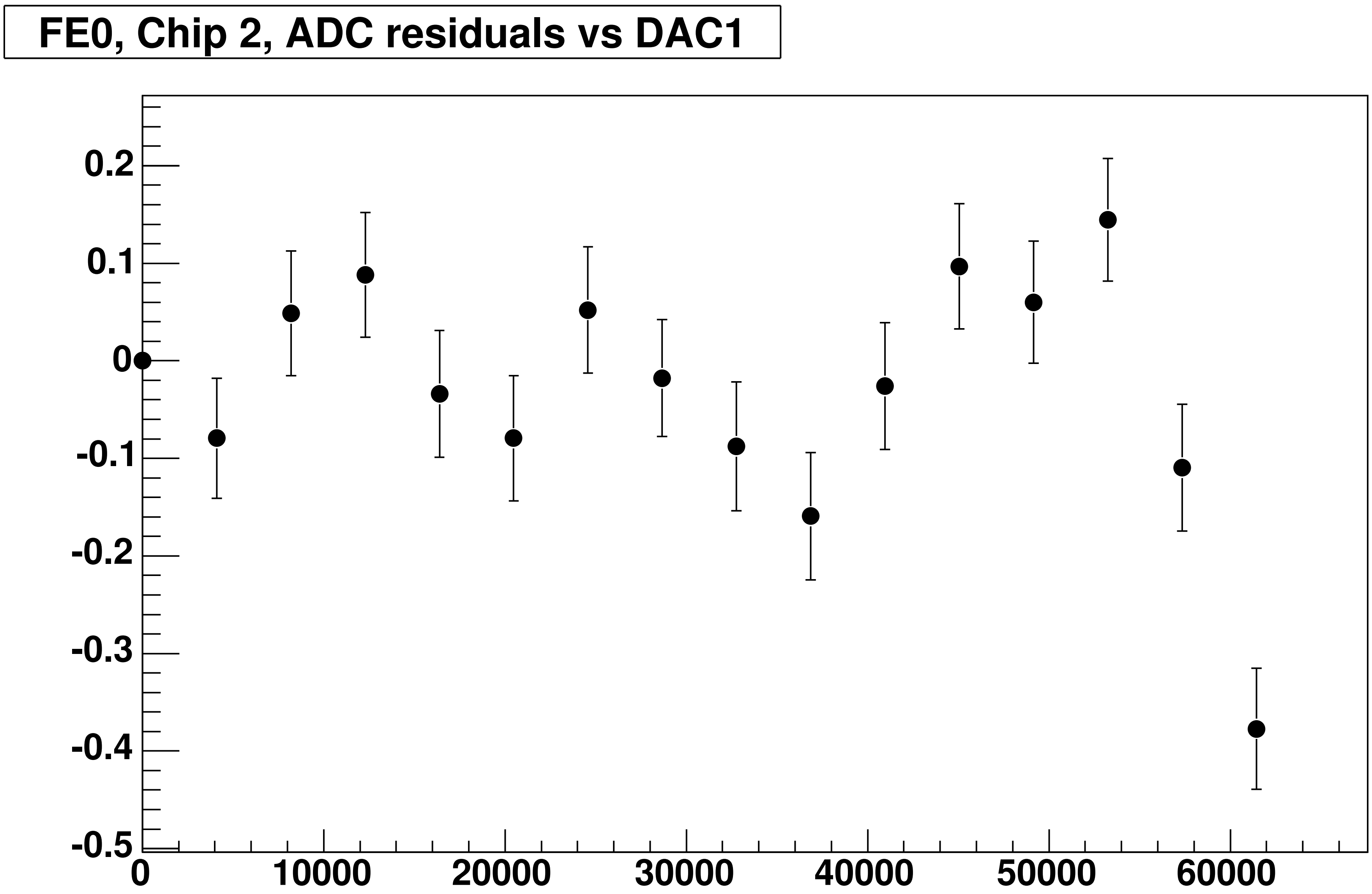

FE0, Chip 2, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

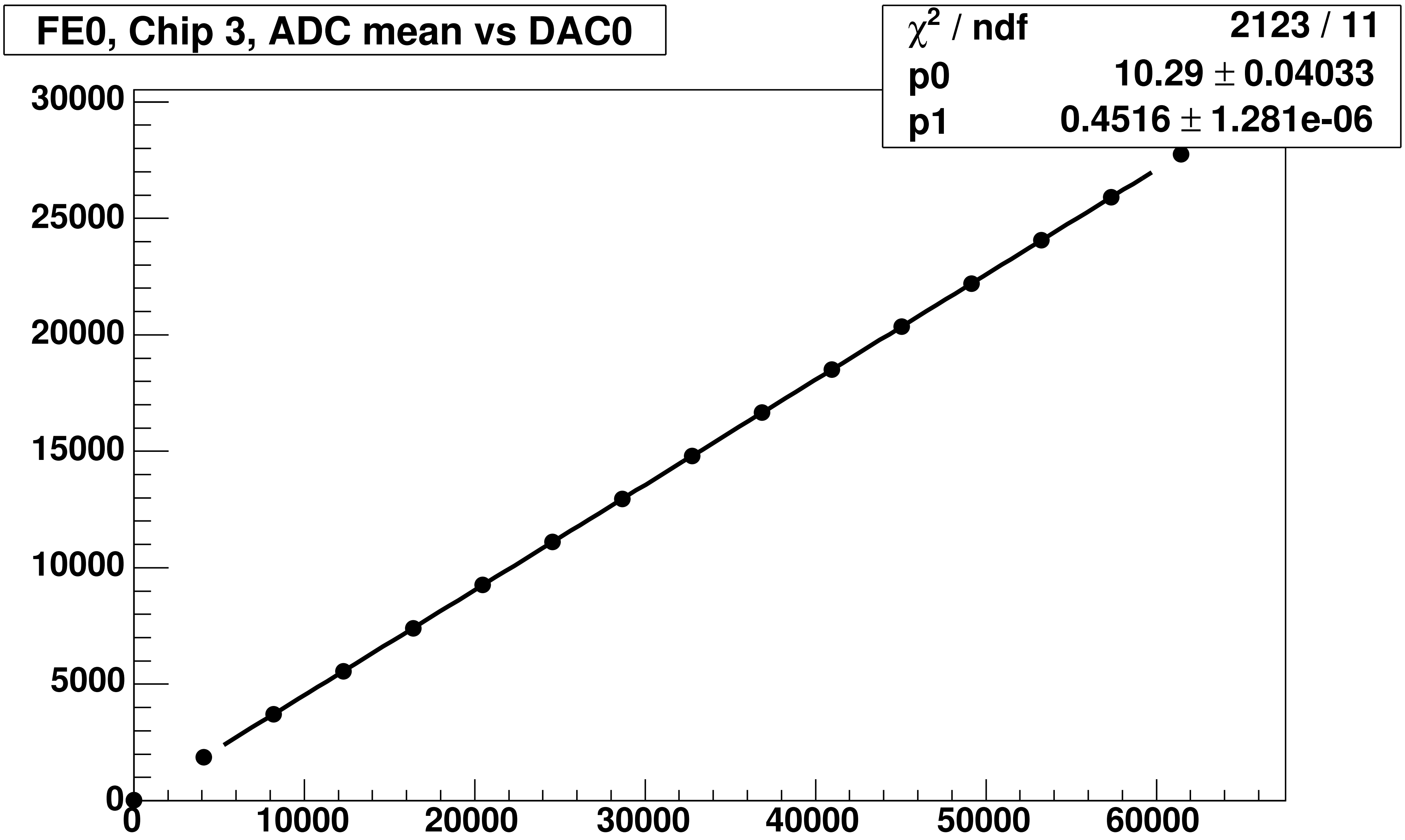


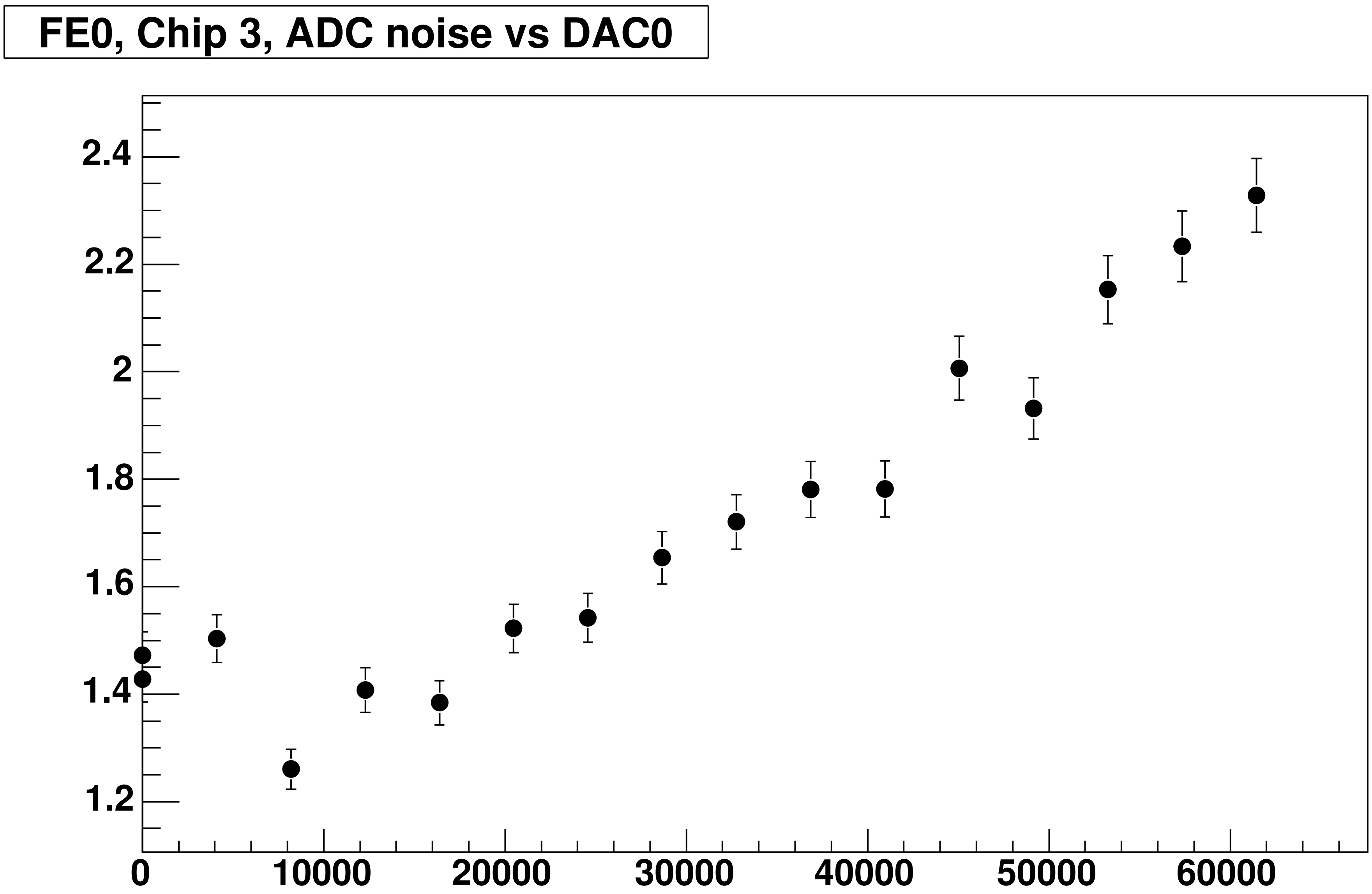
FE0, Chip 2, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

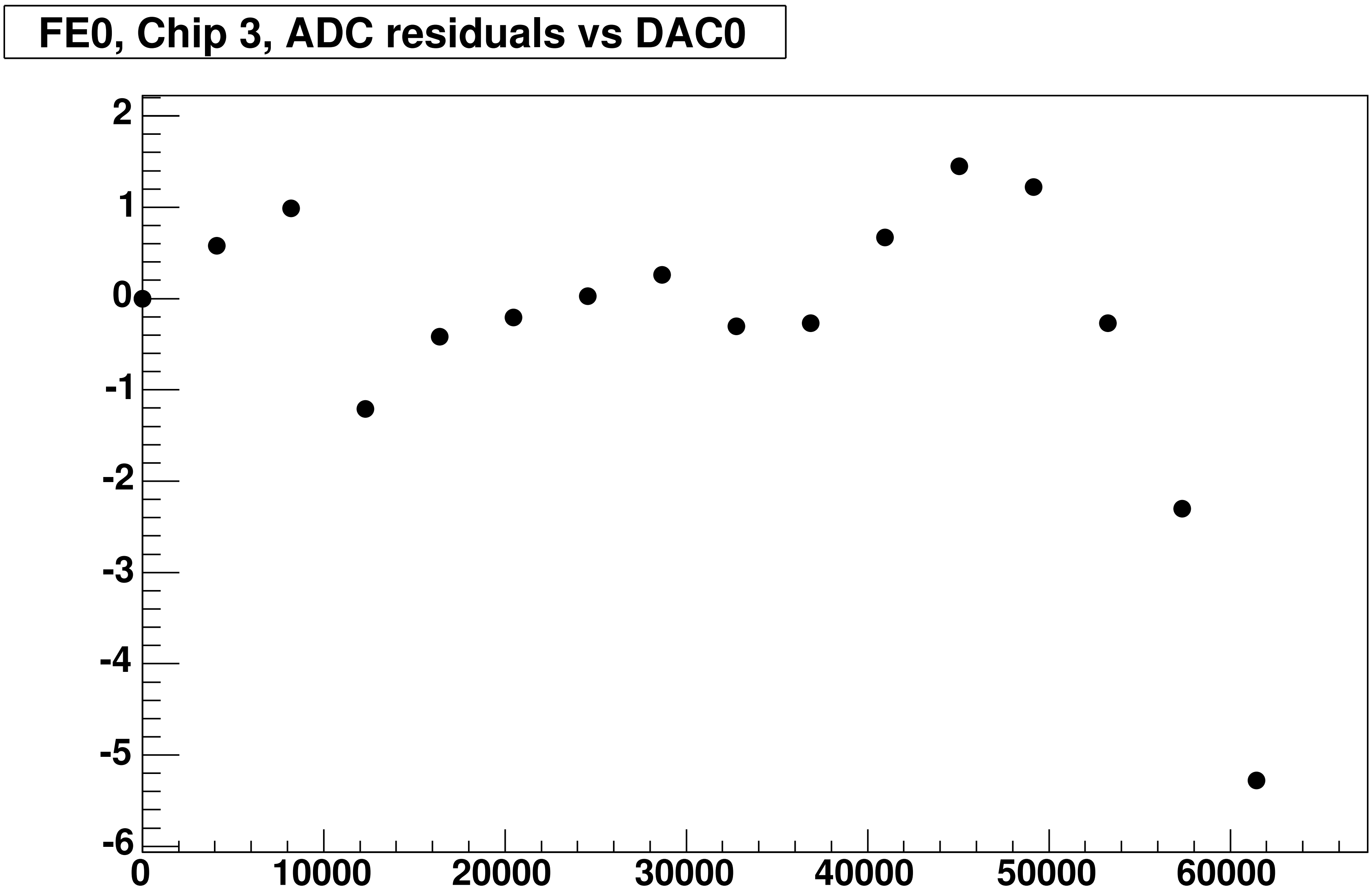

FE0, Chip 2, ADC mean vs DAC1
χ^2 / ndf 24.22 / 11
p0 11.87 ± 0.04189
p1 -7.414e-07 ± 1.157e-06
12.1
12
11.9
11.8
11.7
11.6
11.5
11.4
0
10000
20000
30000
40000
50000
60000

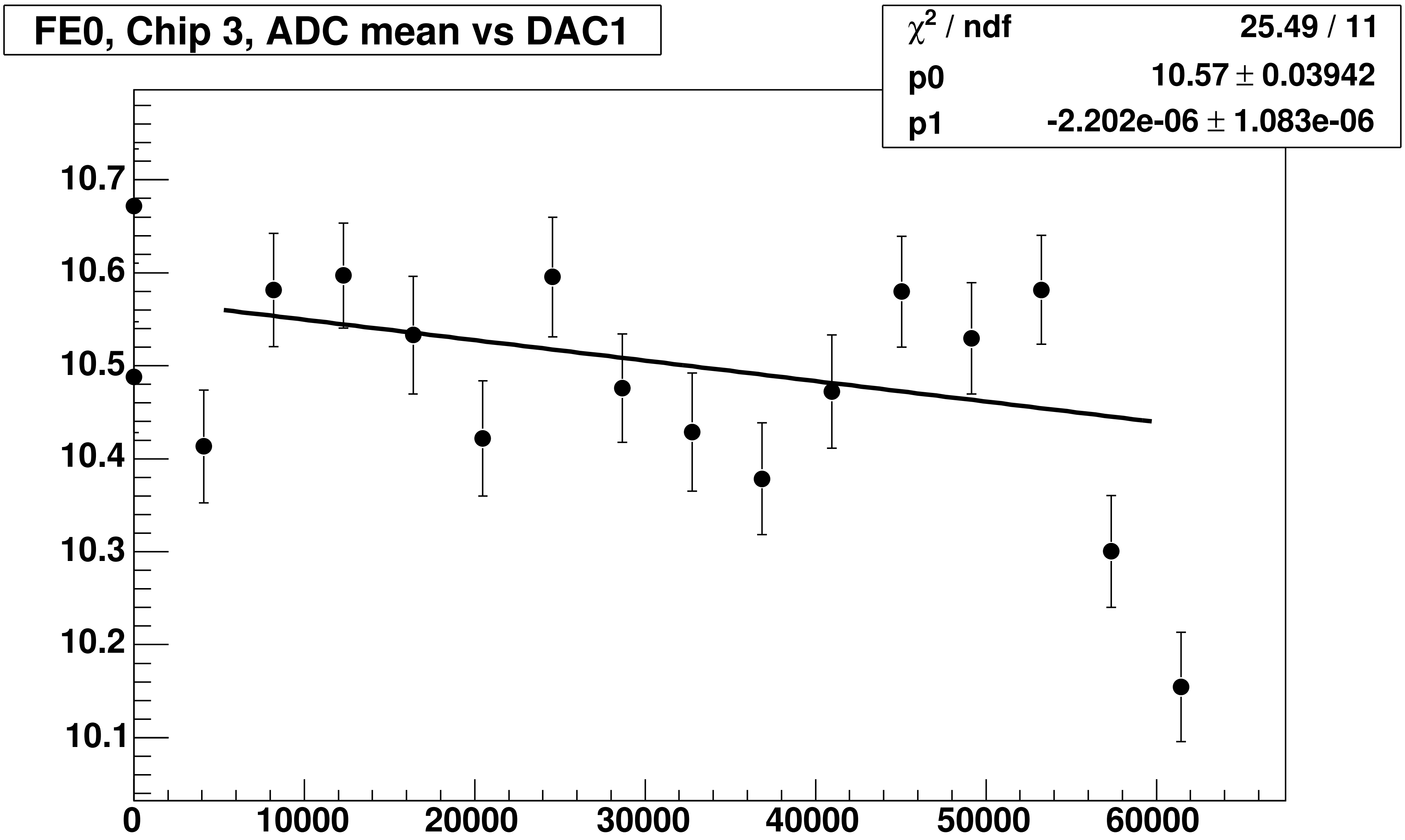

FE0, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

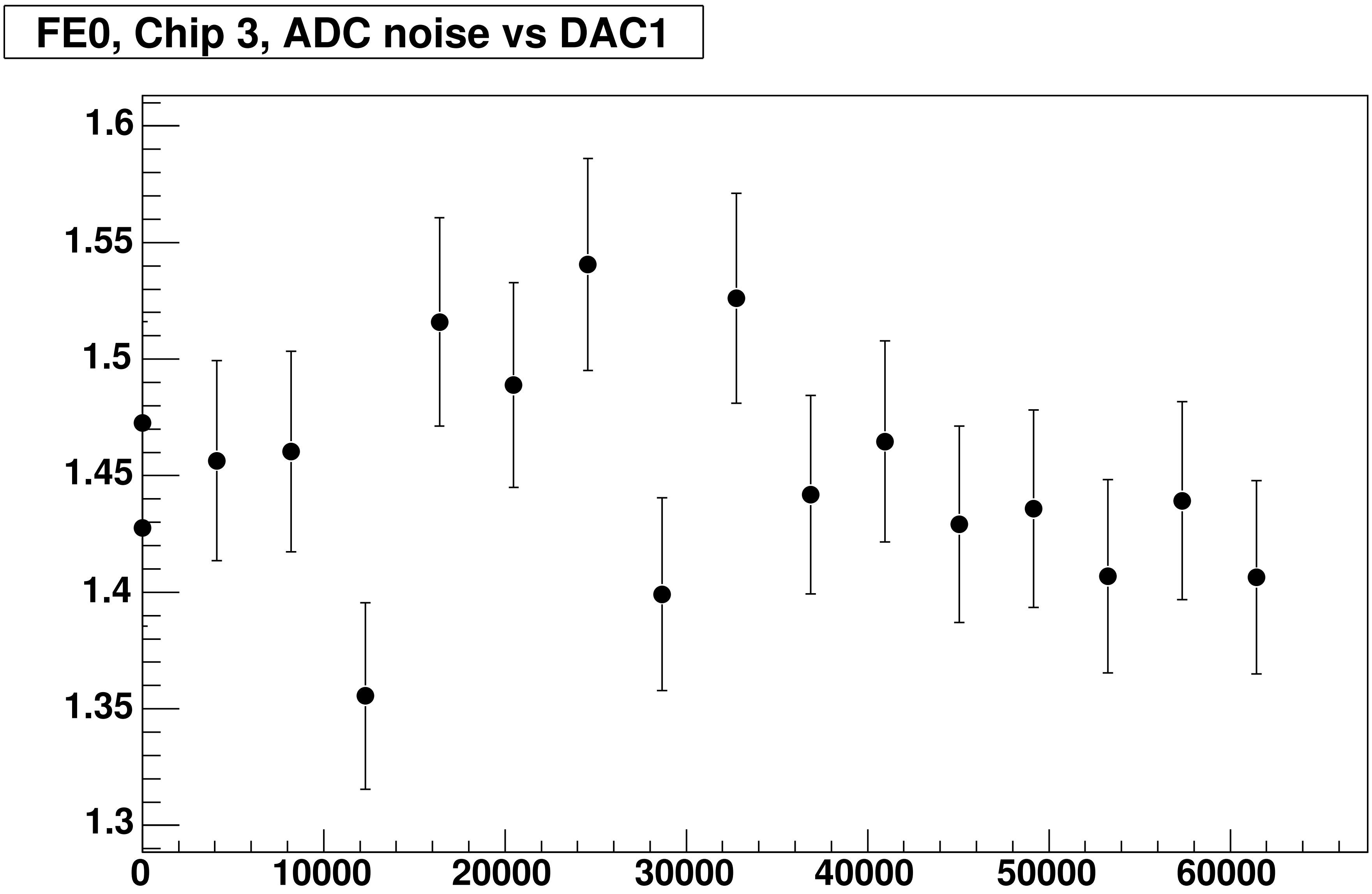

FE0, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

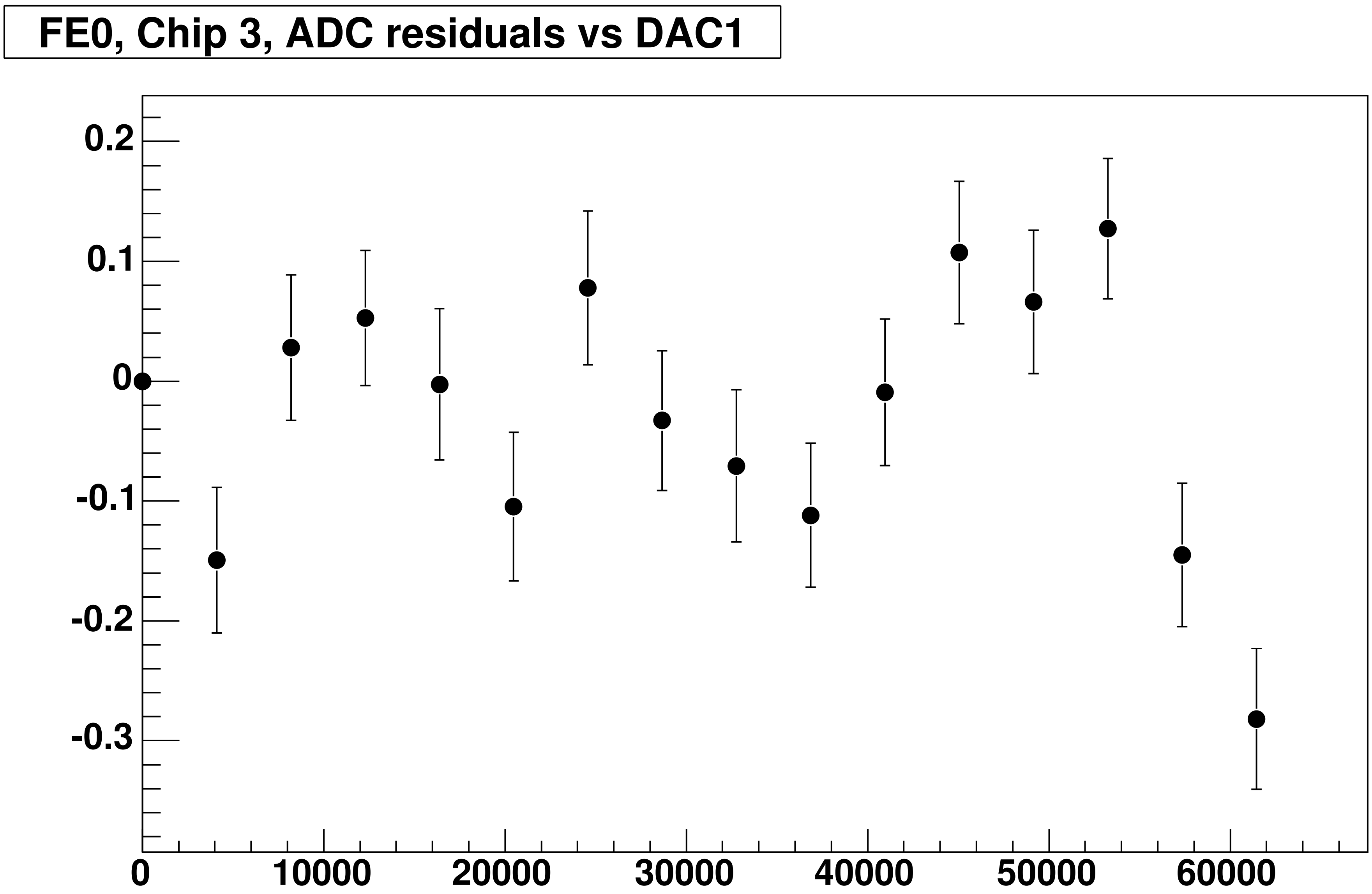

FE0, Chip 3, ADC mean vs DAC0
χ^2 / ndf 2123 / 11
p0 10.29 ± 0.04033
p1 0.4516 ± 1.281e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

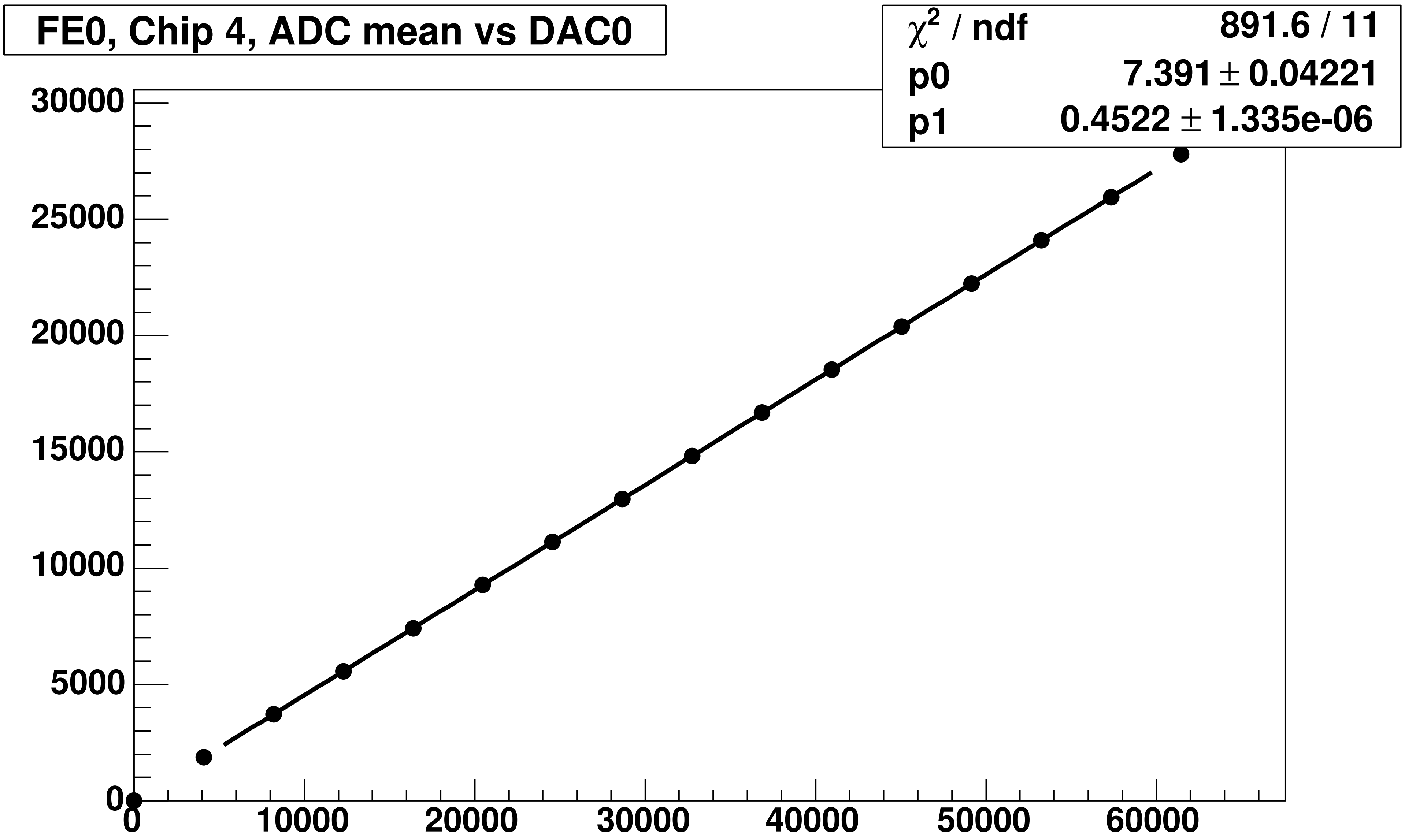

FE0, Chip 3, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE0, Chip 3, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

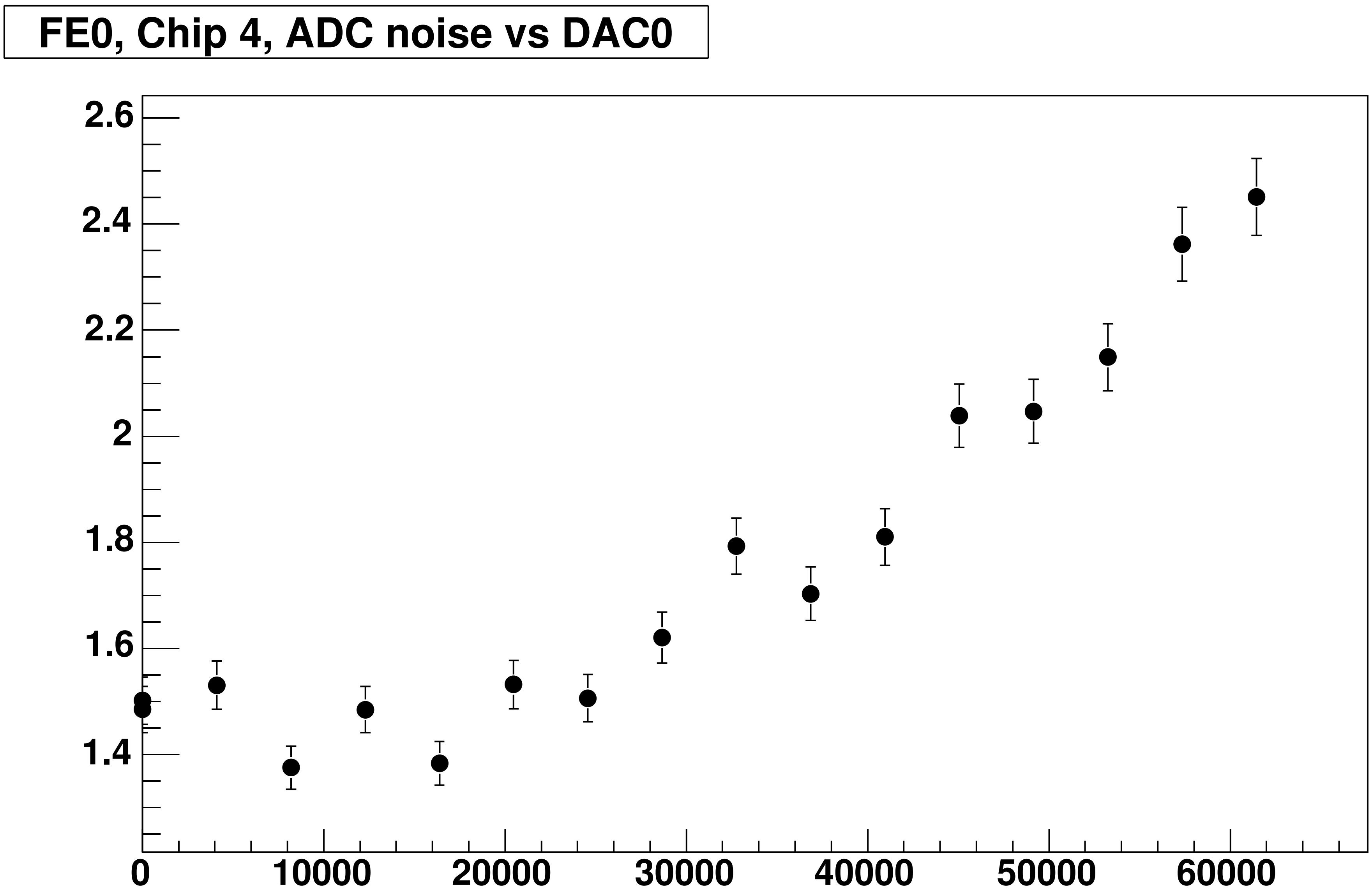

FE0, Chip 3, ADC mean vs DAC1
χ^2 / ndf 25.49 / 11
p0 10.57 ± 0.03942
p1 -2.202e-06 ± 1.083e-06
10.7
10.6
10.5
10.4
10.3
10.2
10.1
0
10000
20000
30000
40000
50000
60000

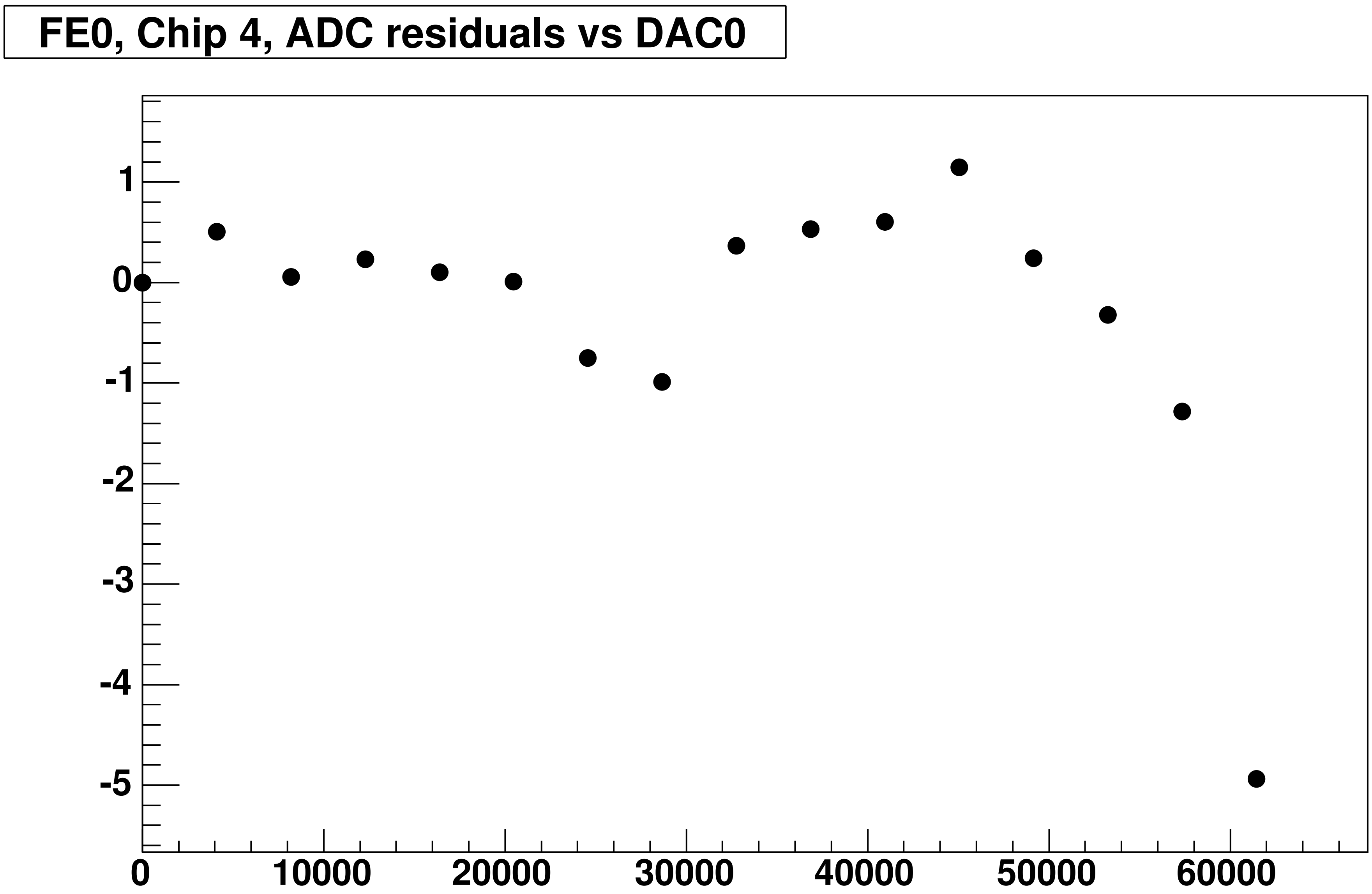

FE0, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

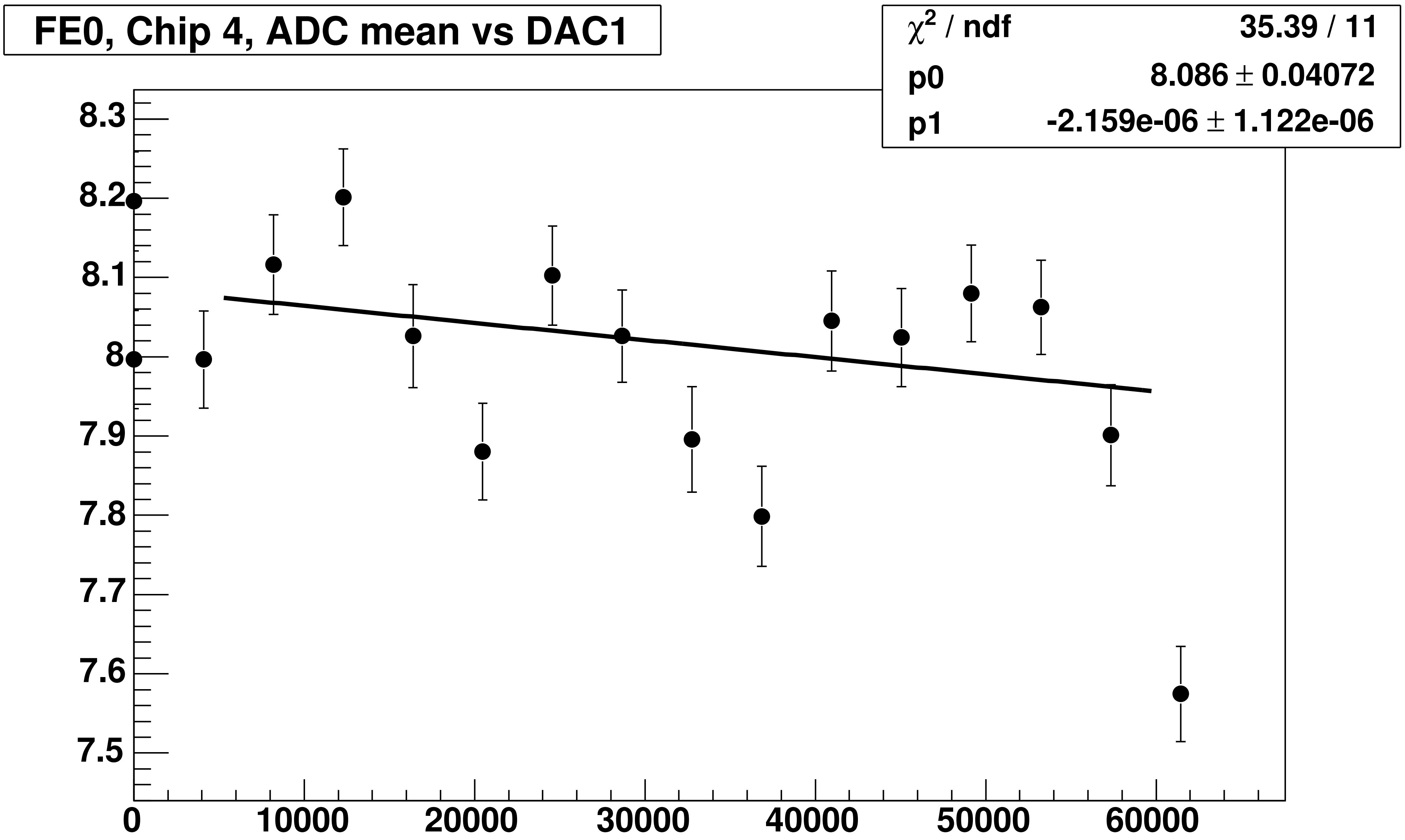

FE0, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

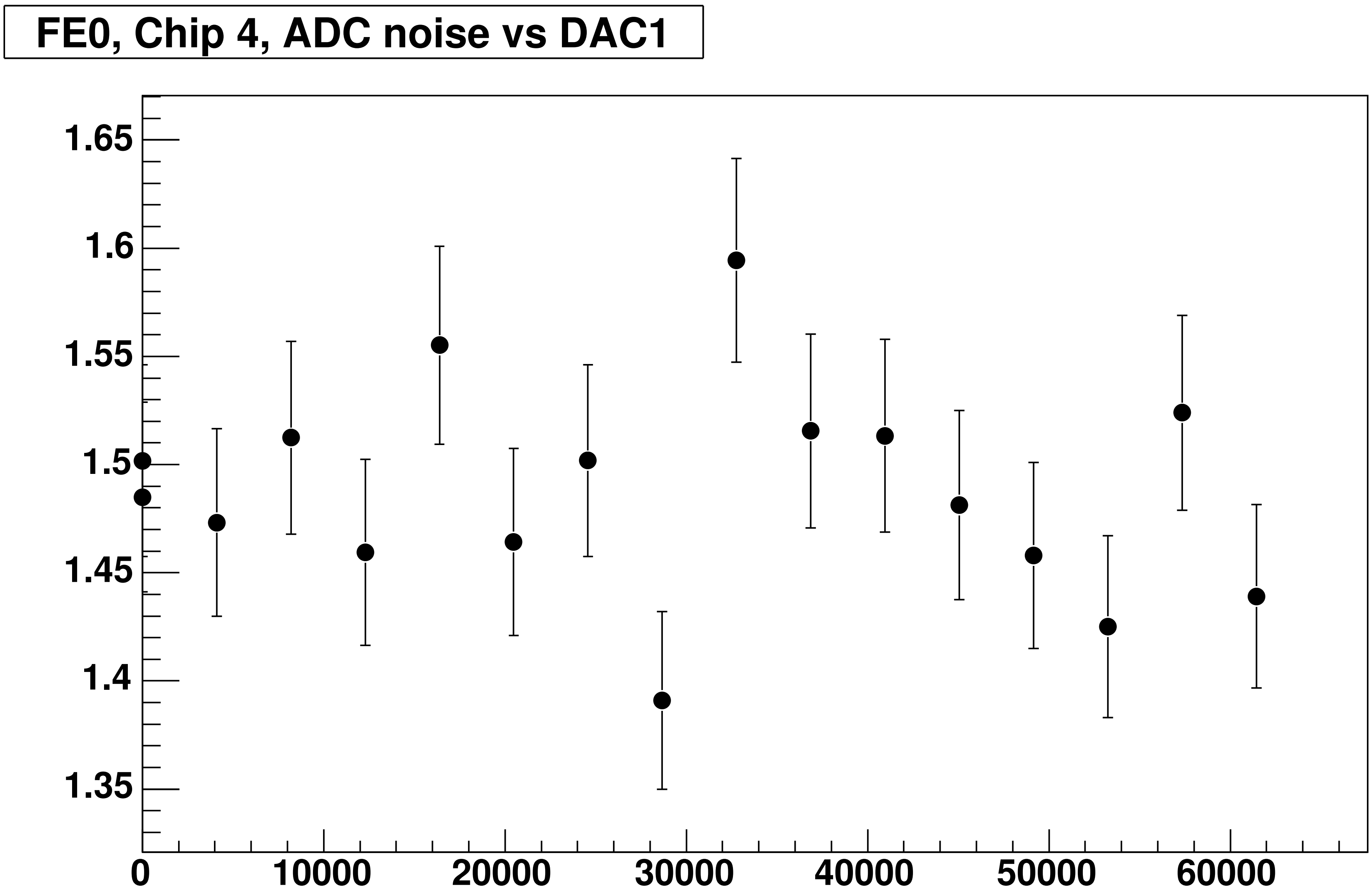


FE0, Chip 4, ADC mean vs DAC0
χ2 / ndf 891.6 / 11
p0 7.391 ± 0.04221
p1 0.4522 ± 1.335e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

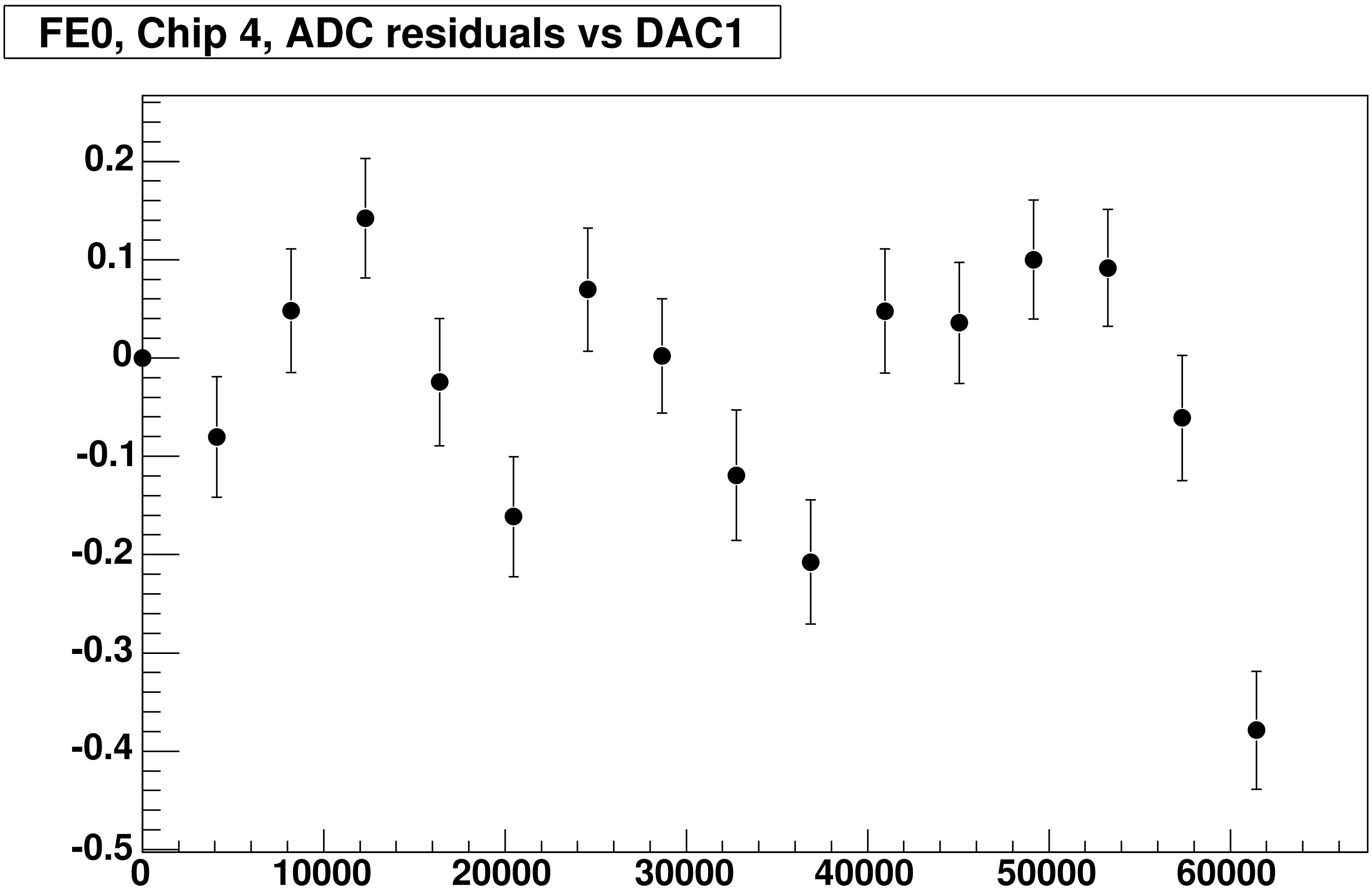

FE0, Chip 4, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

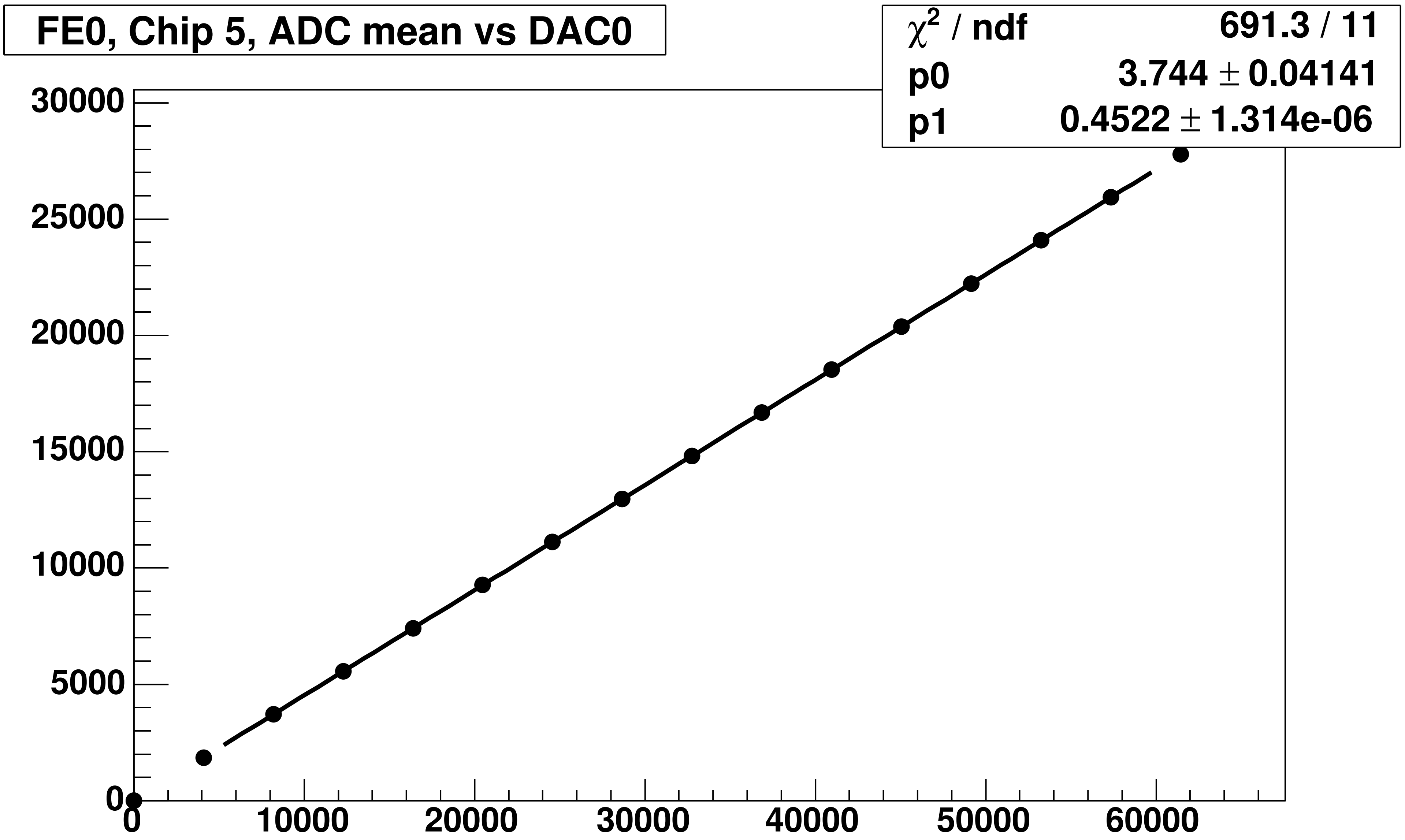

FE0, Chip 4, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE0, Chip 4, ADC mean vs DAC1
χ2 / ndf 35.39 / 11
p0 8.086 ± 0.04072
p1 -2.159e-06 ± 1.122e-06
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
0
10000
20000
30000
40000
50000
60000

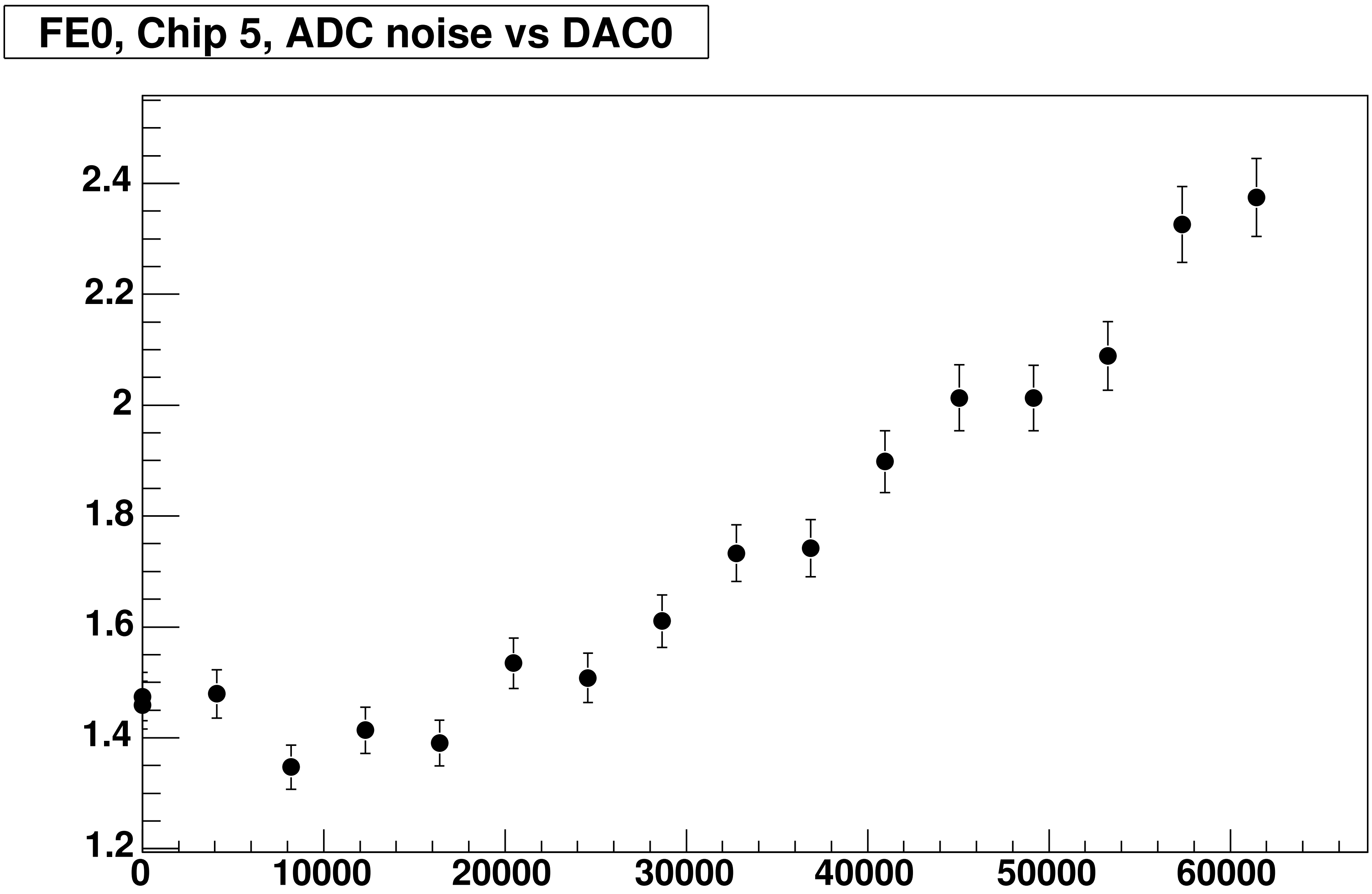


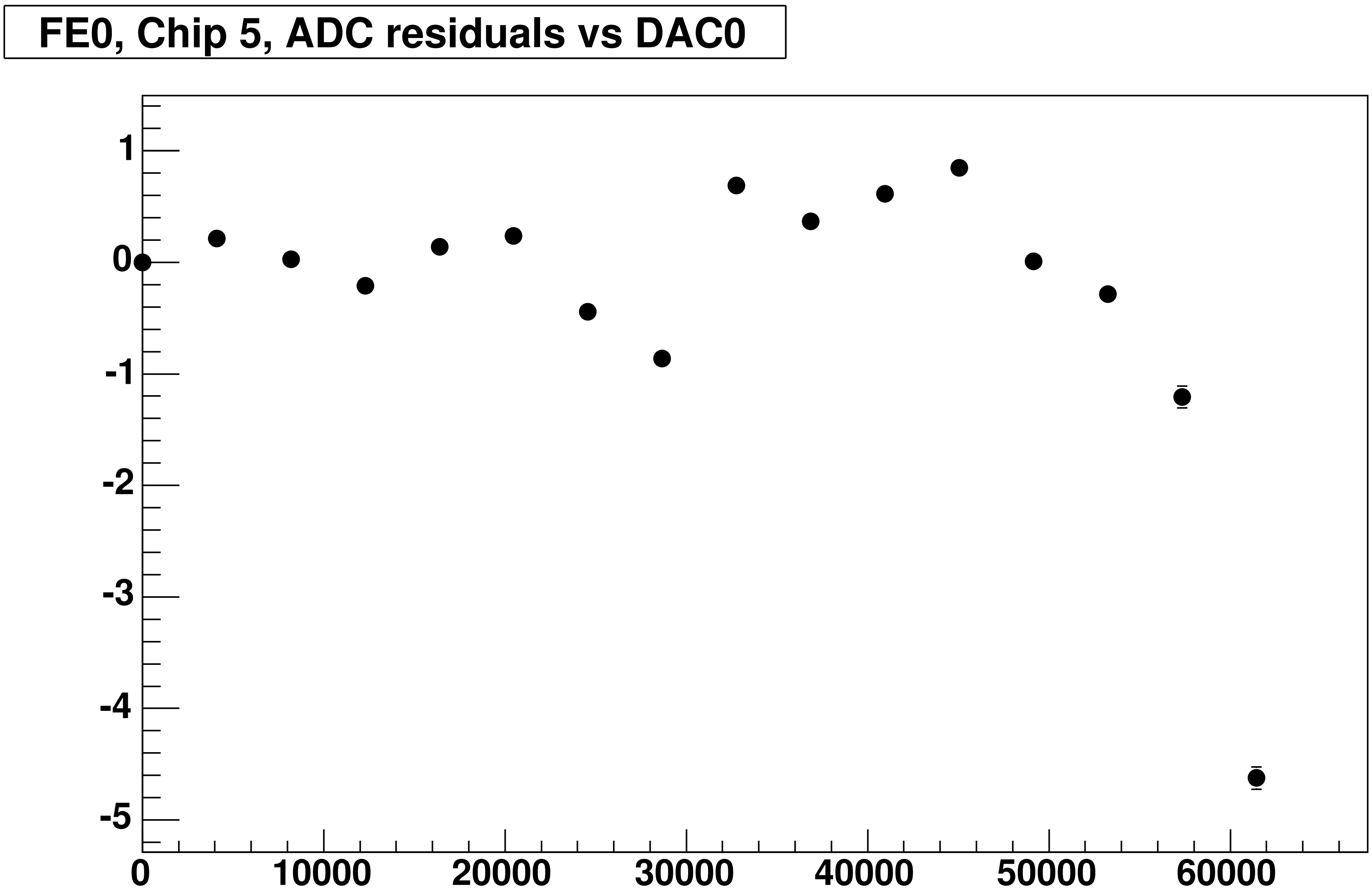
FE0, Chip 4, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

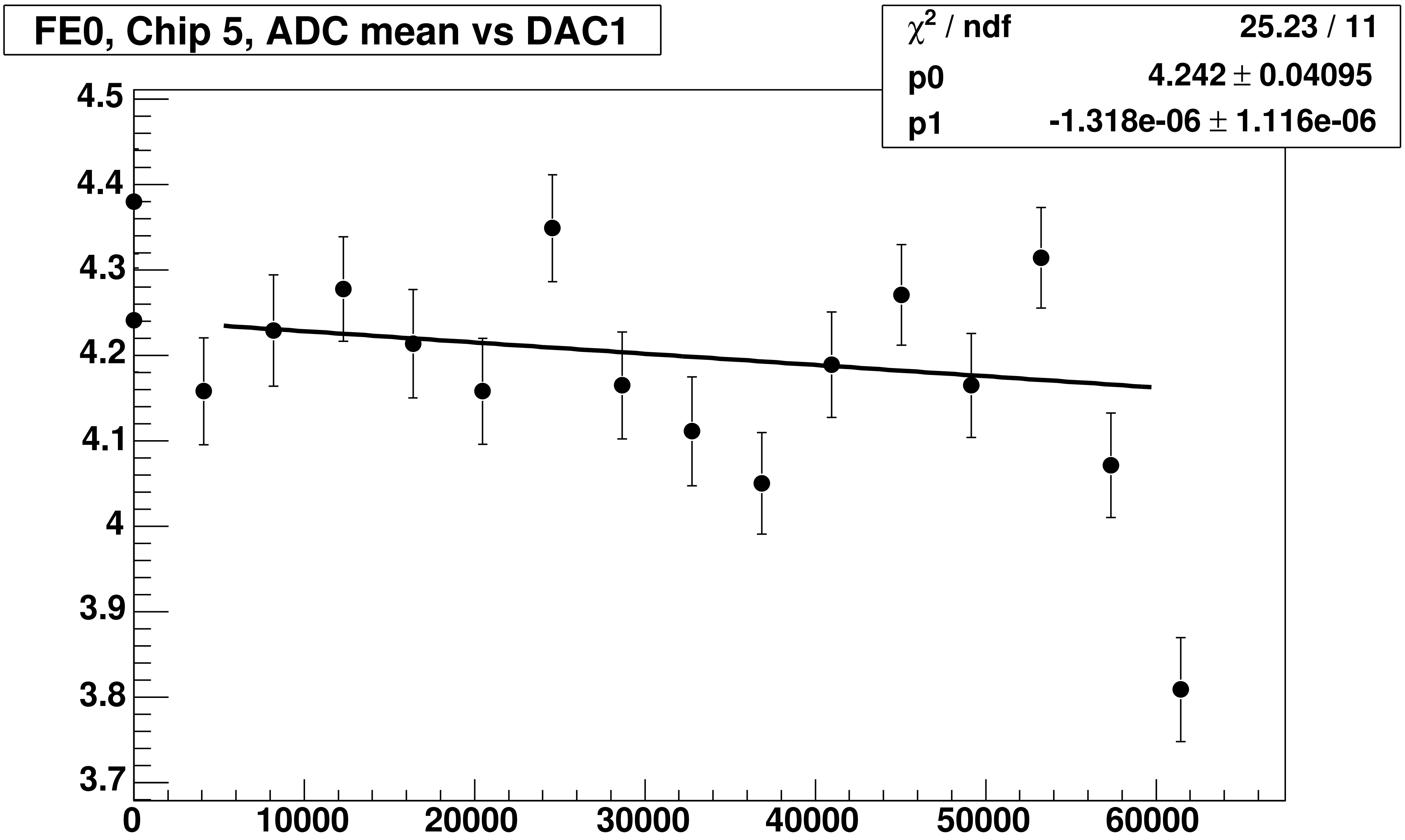

FE0, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000



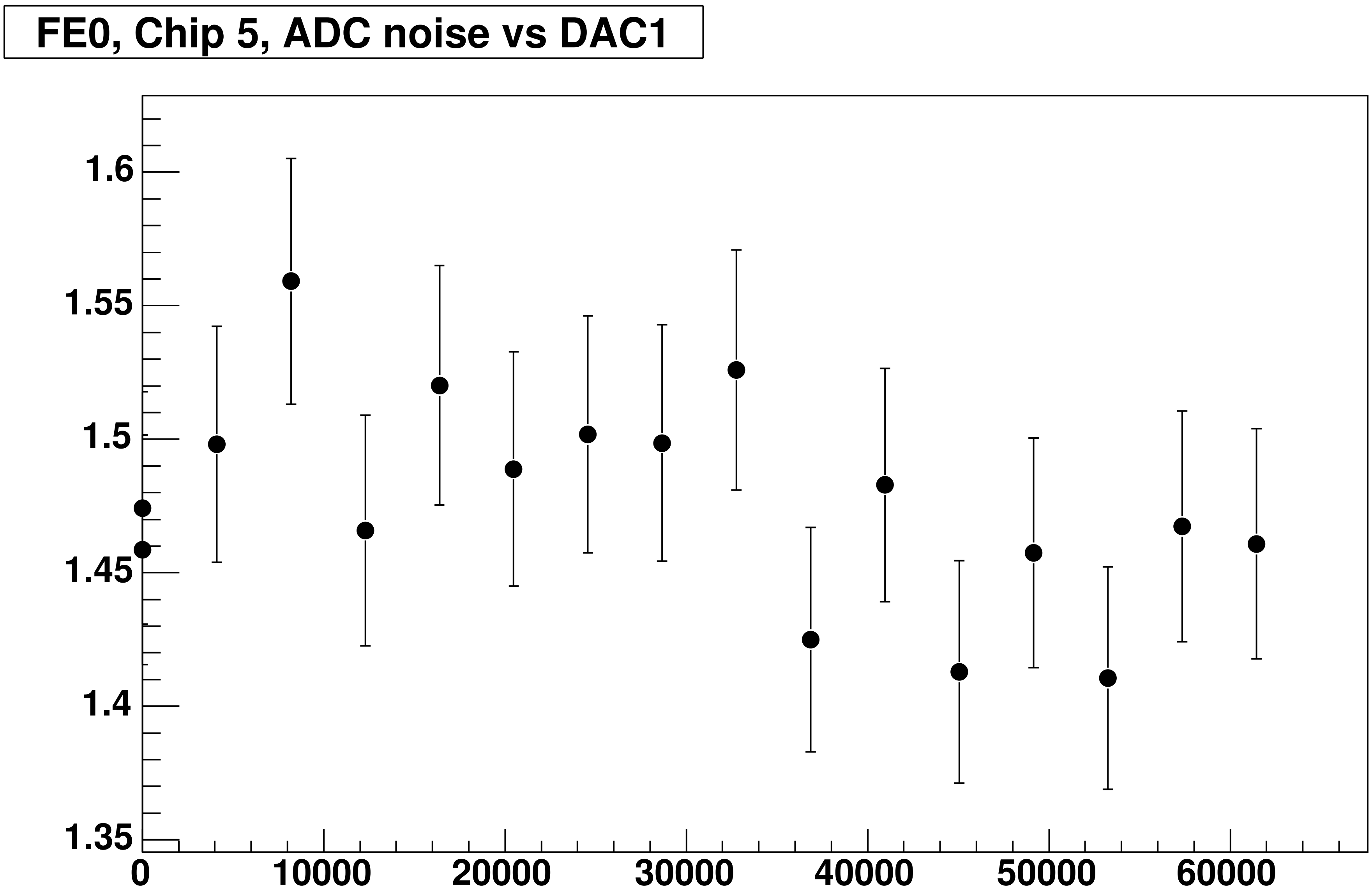
FE0, Chip 5, ADC mean vs DAC0
χ^2 / ndf 691.3 / 11
p0 3.744 ± 0.04141
p1 0.4522 ± 1.314e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE0, Chip 5, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

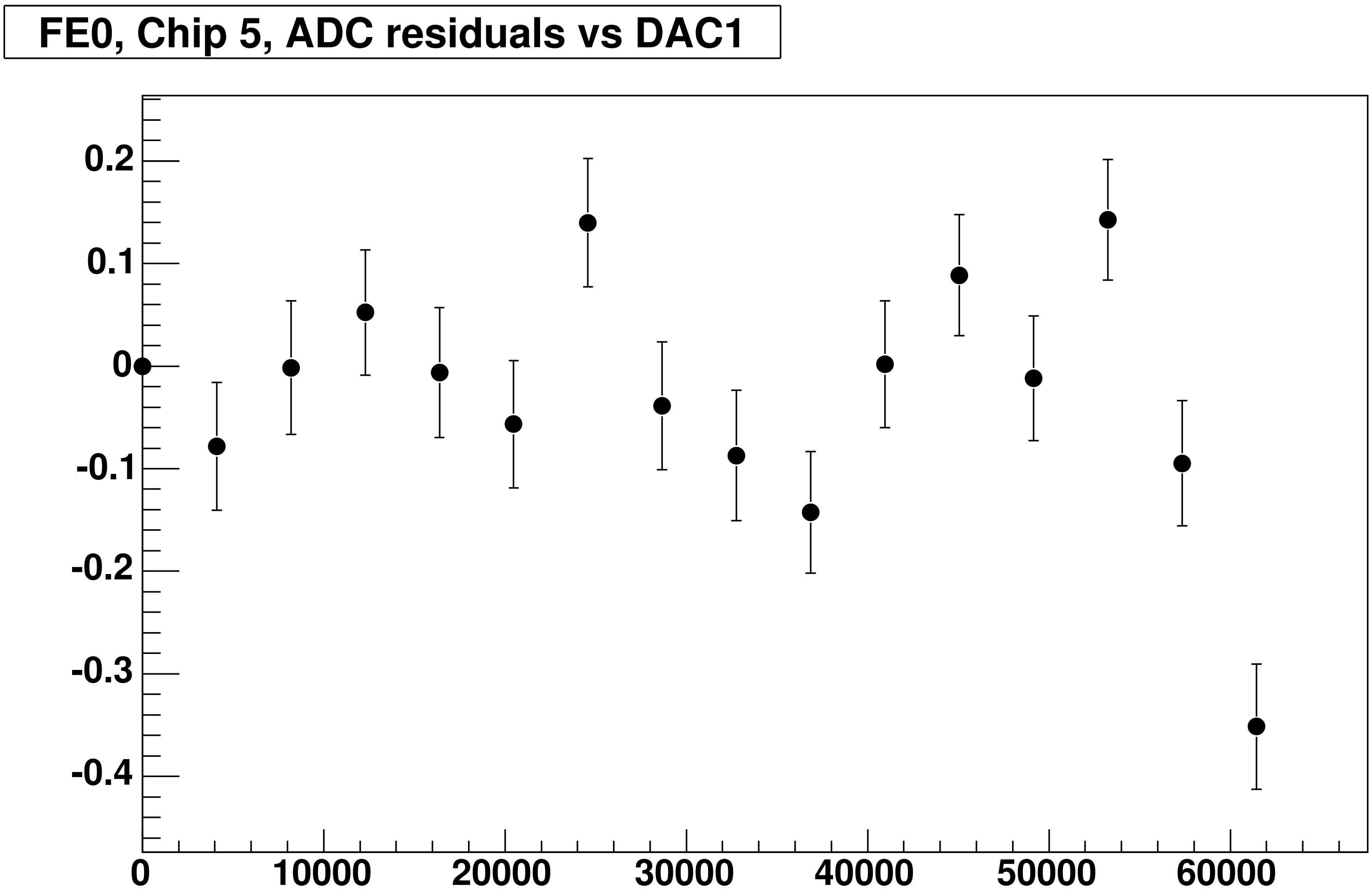

FE0, Chip 5, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

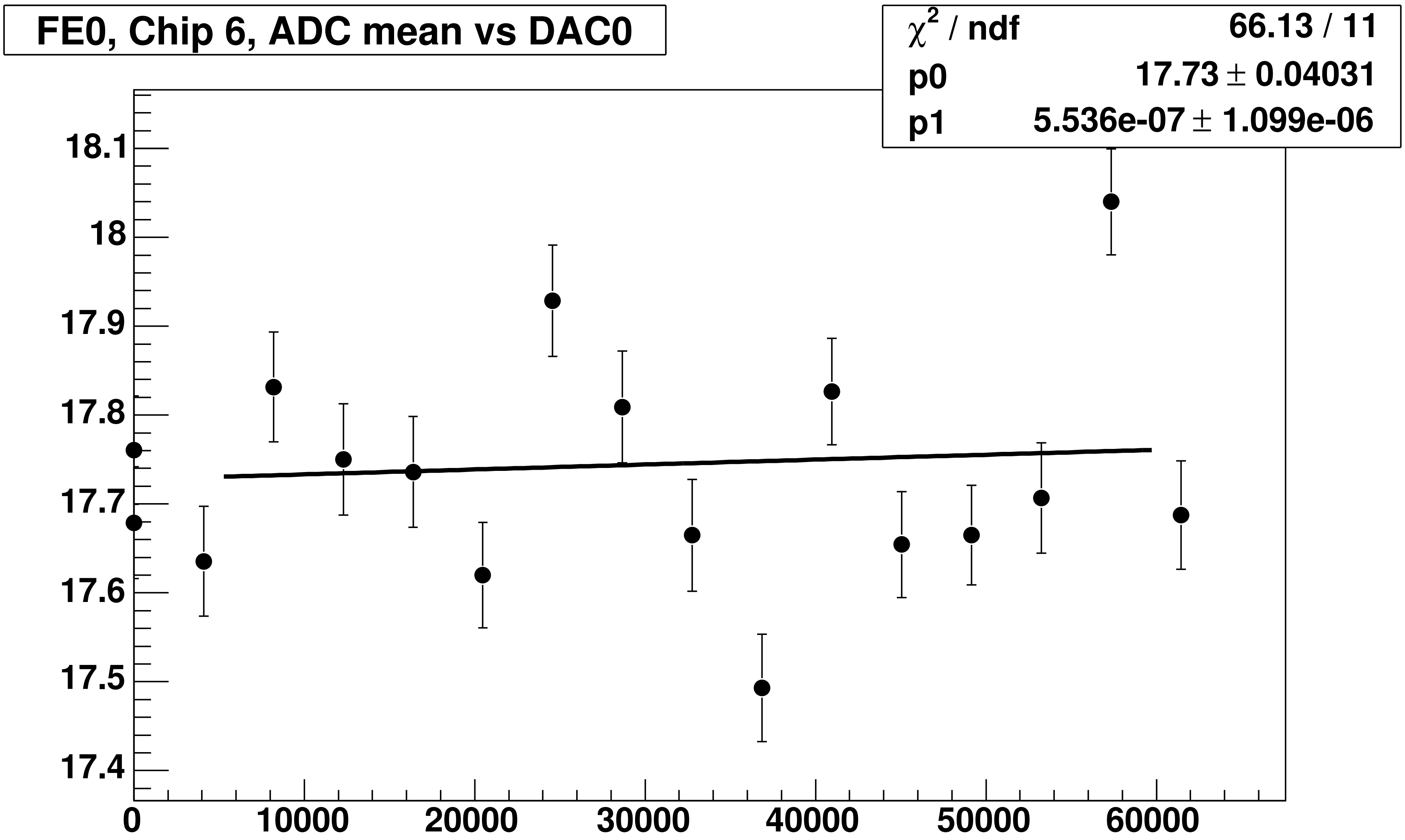


FE0, Chip 5, ADC mean vs DAC1
χ² / ndf 25.23 / 11
p0 4.242 ± 0.04095
p1 -1.318e-06 ± 1.116e-06
4.5
4.4
4.3
4.2
4.1
4
3.9
3.8
3.7
0
10000
20000
30000
40000
50000
60000

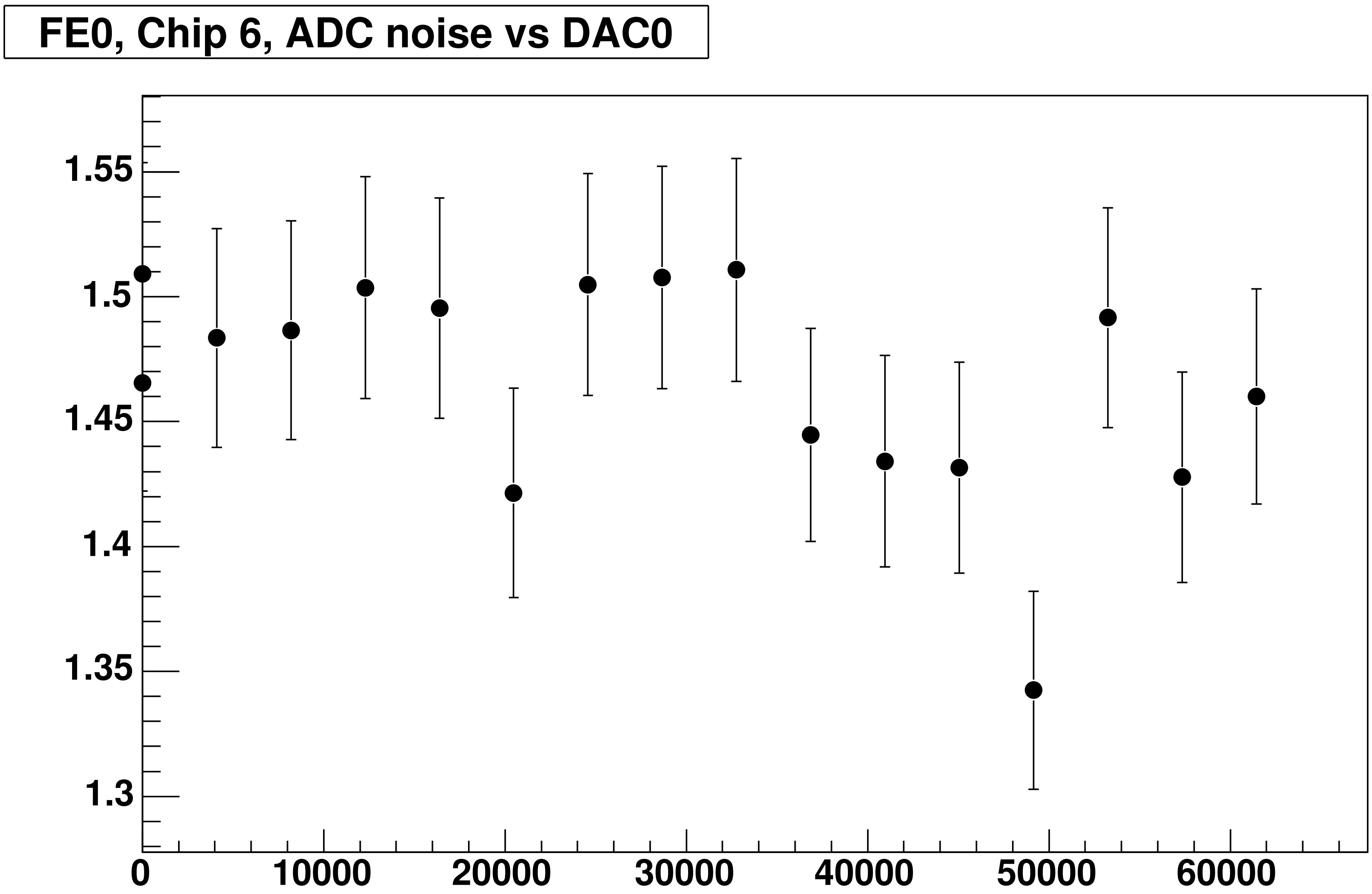


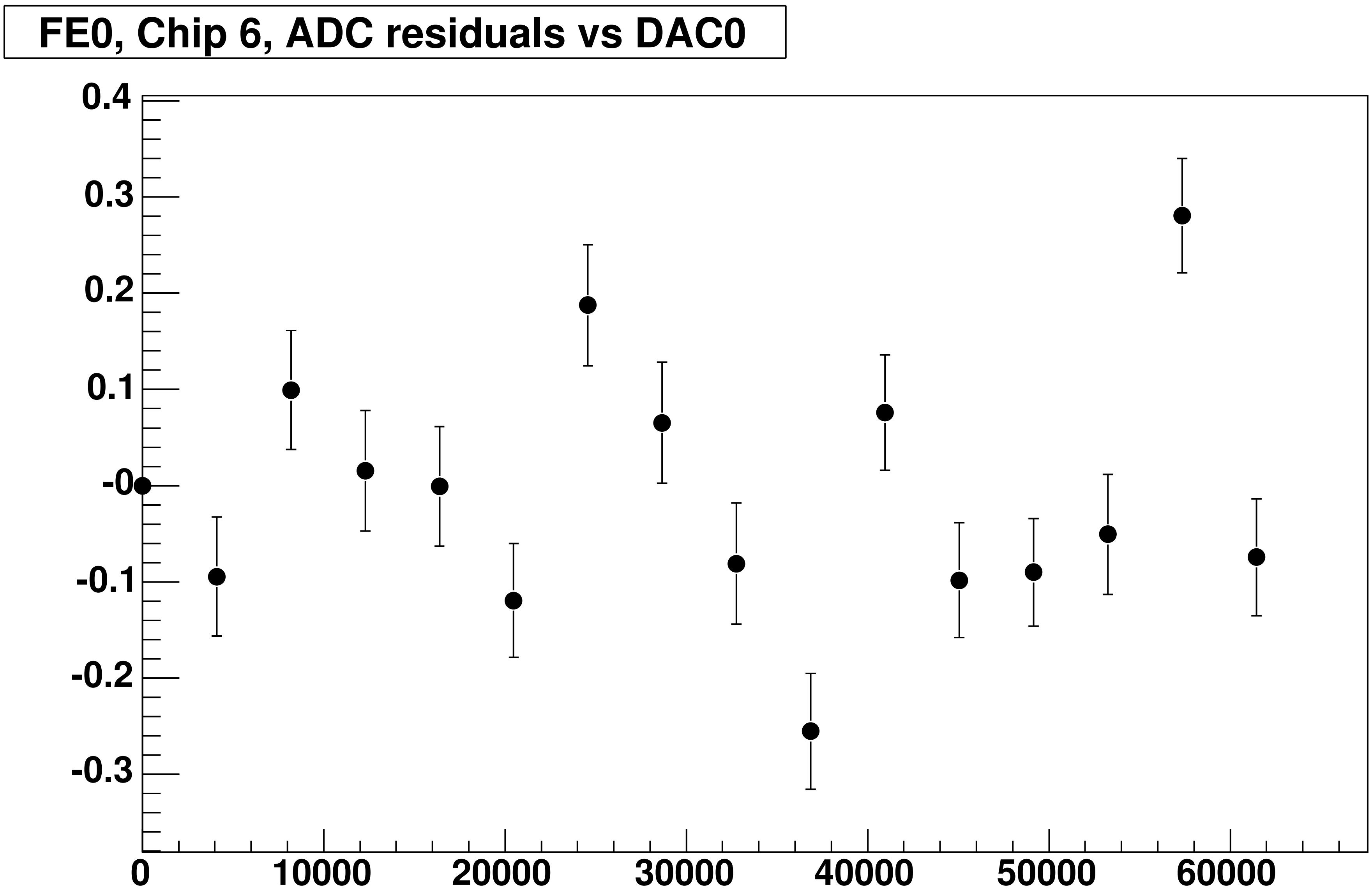
FE0, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

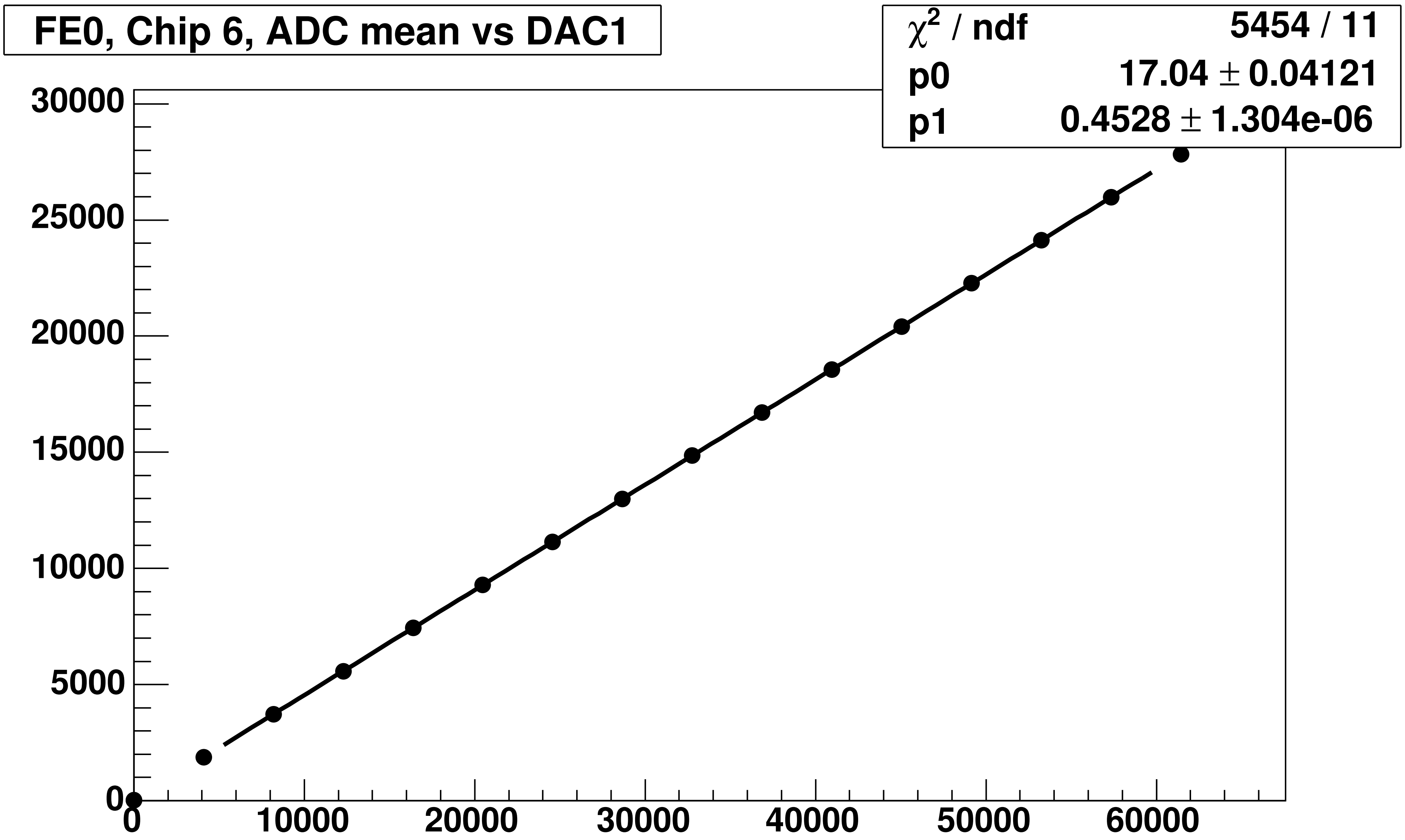

FE0, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

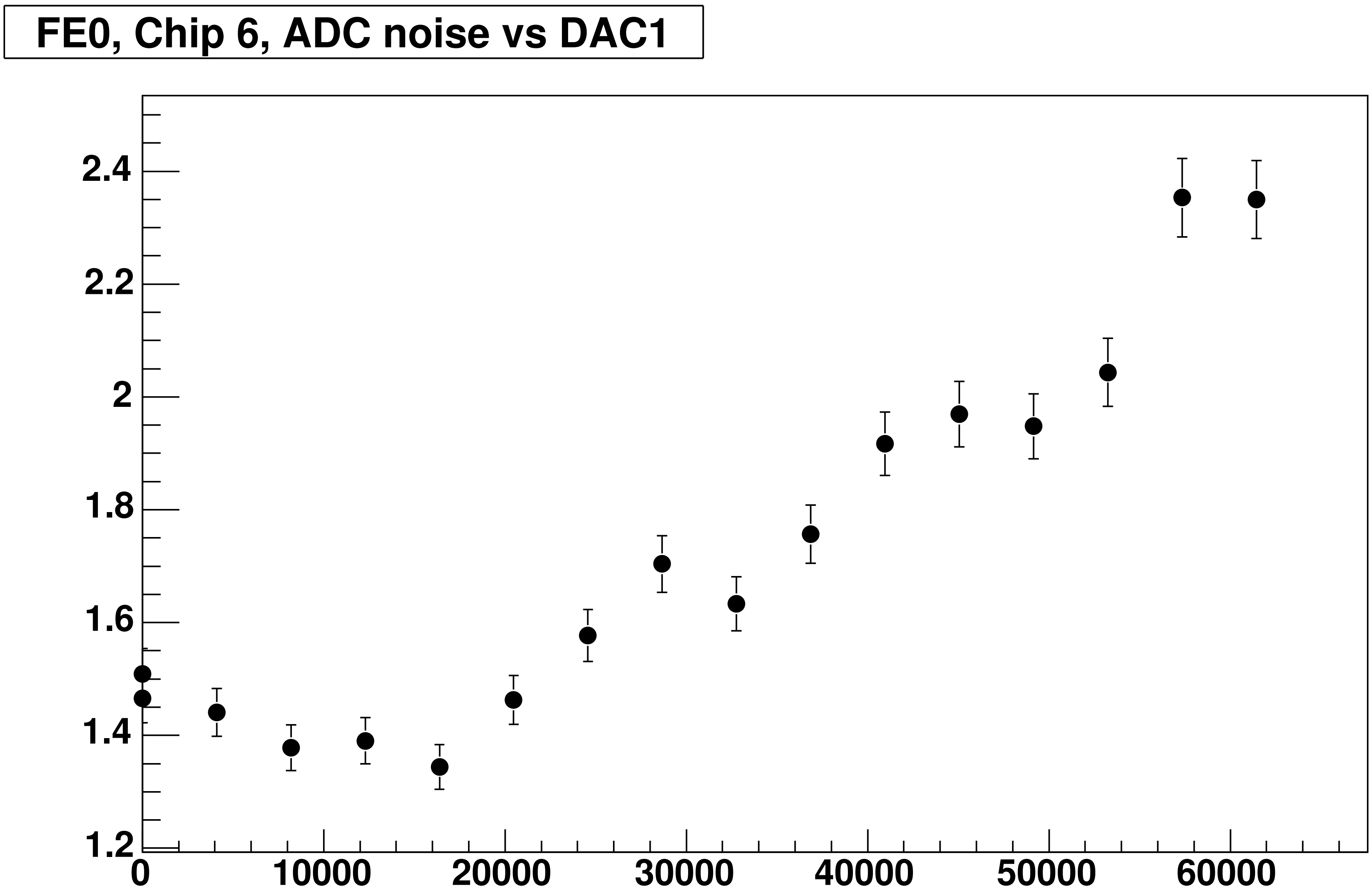


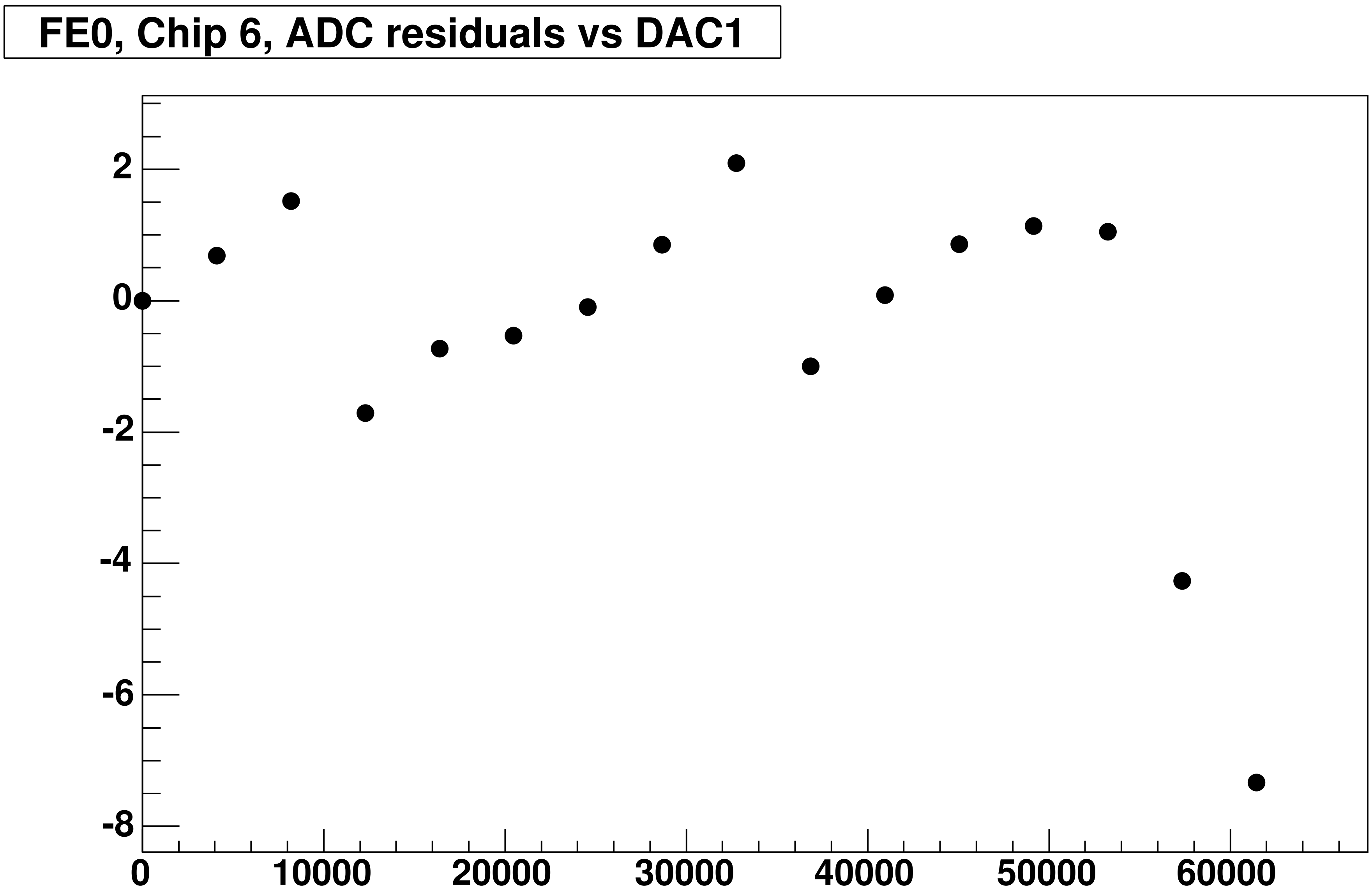
FE0, Chip 6, ADC mean vs DAC0
χ² / ndf 66.13 / 11
p0 17.73 ± 0.04031
p1 5.536e-07 ± 1.099e-06
18.1
18
17.9
17.8
17.7
17.6
17.5
17.4
0
10000
20000
30000
40000
50000
60000

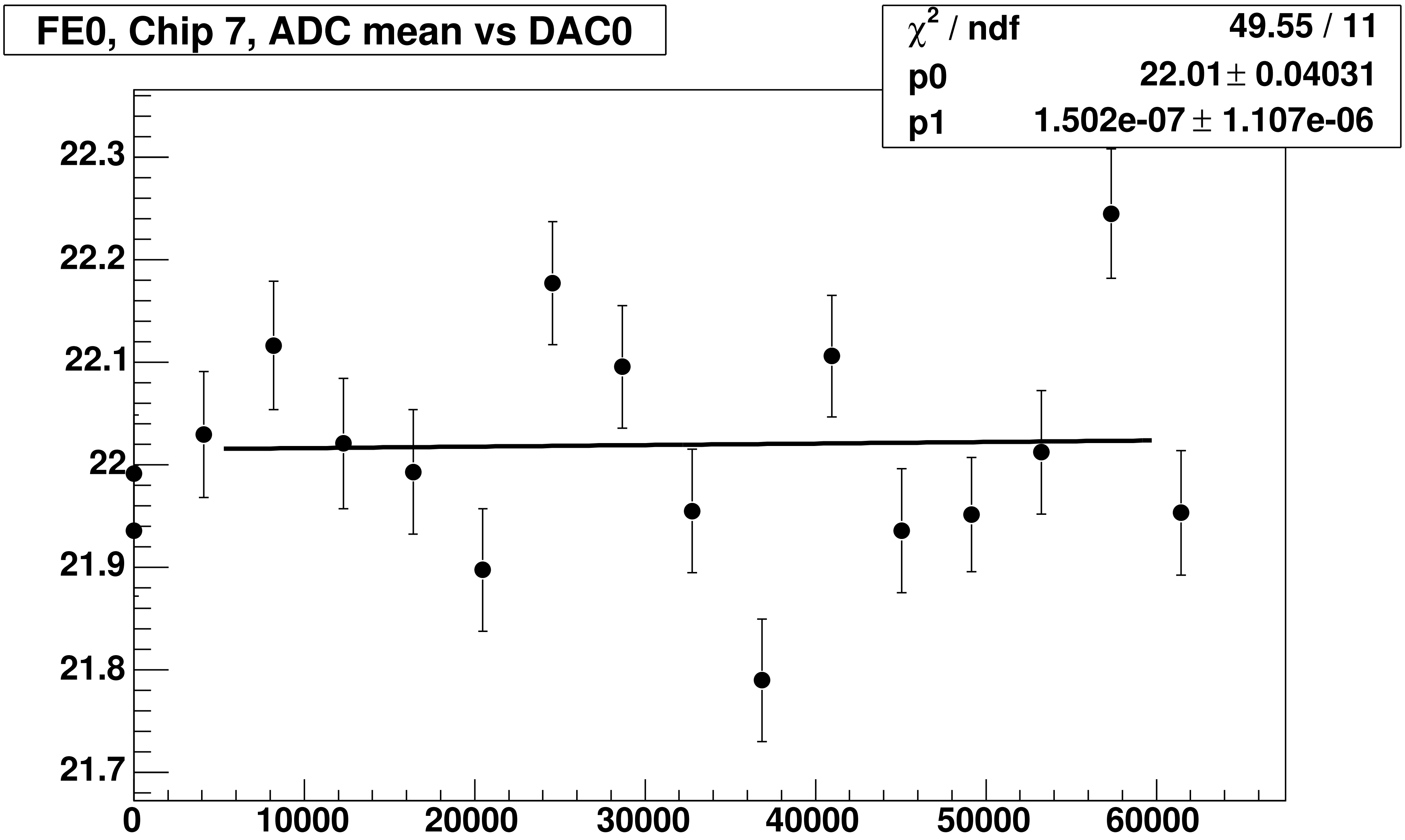

FE0, Chip 6, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

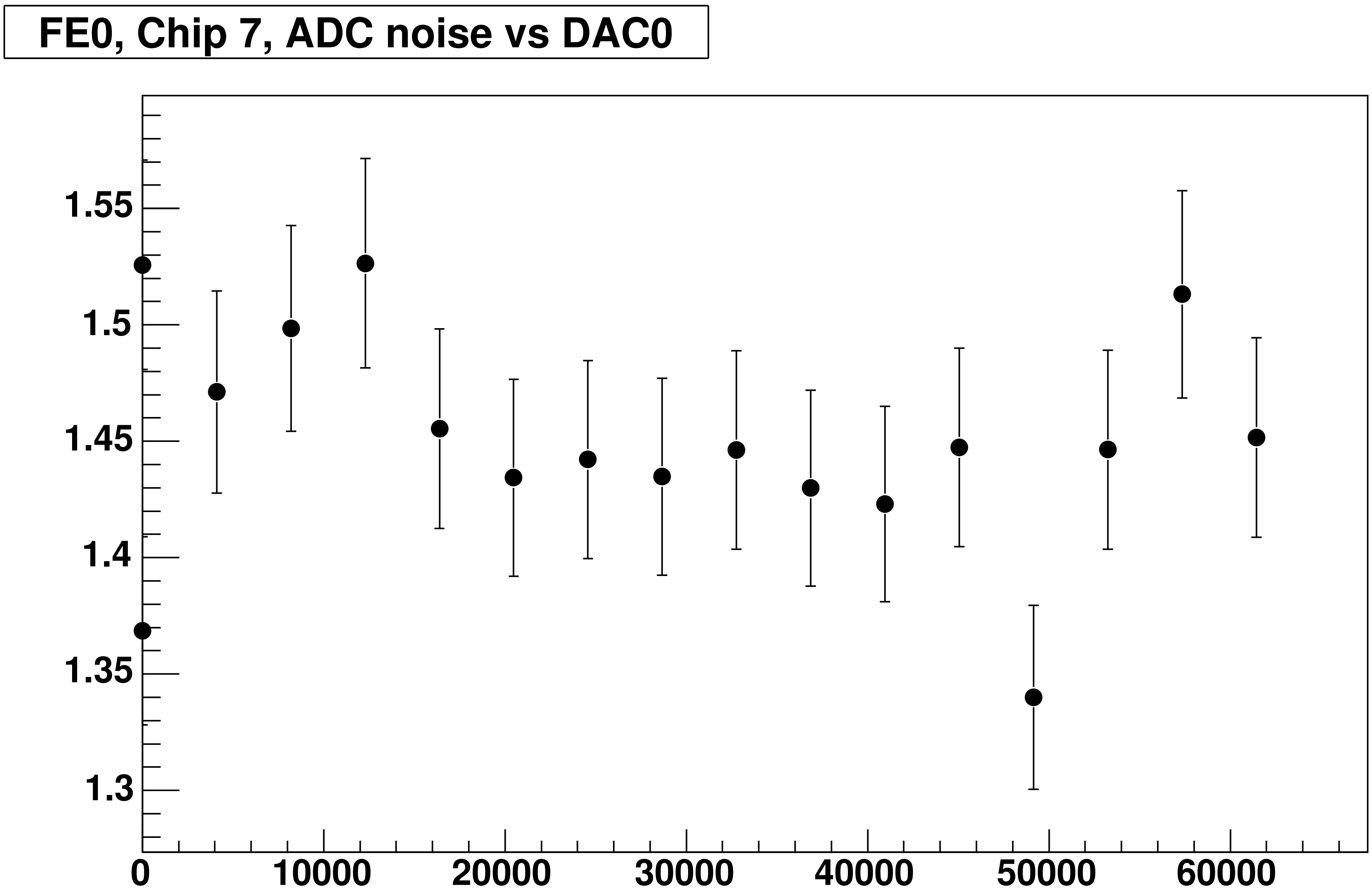

FE0, Chip 6, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

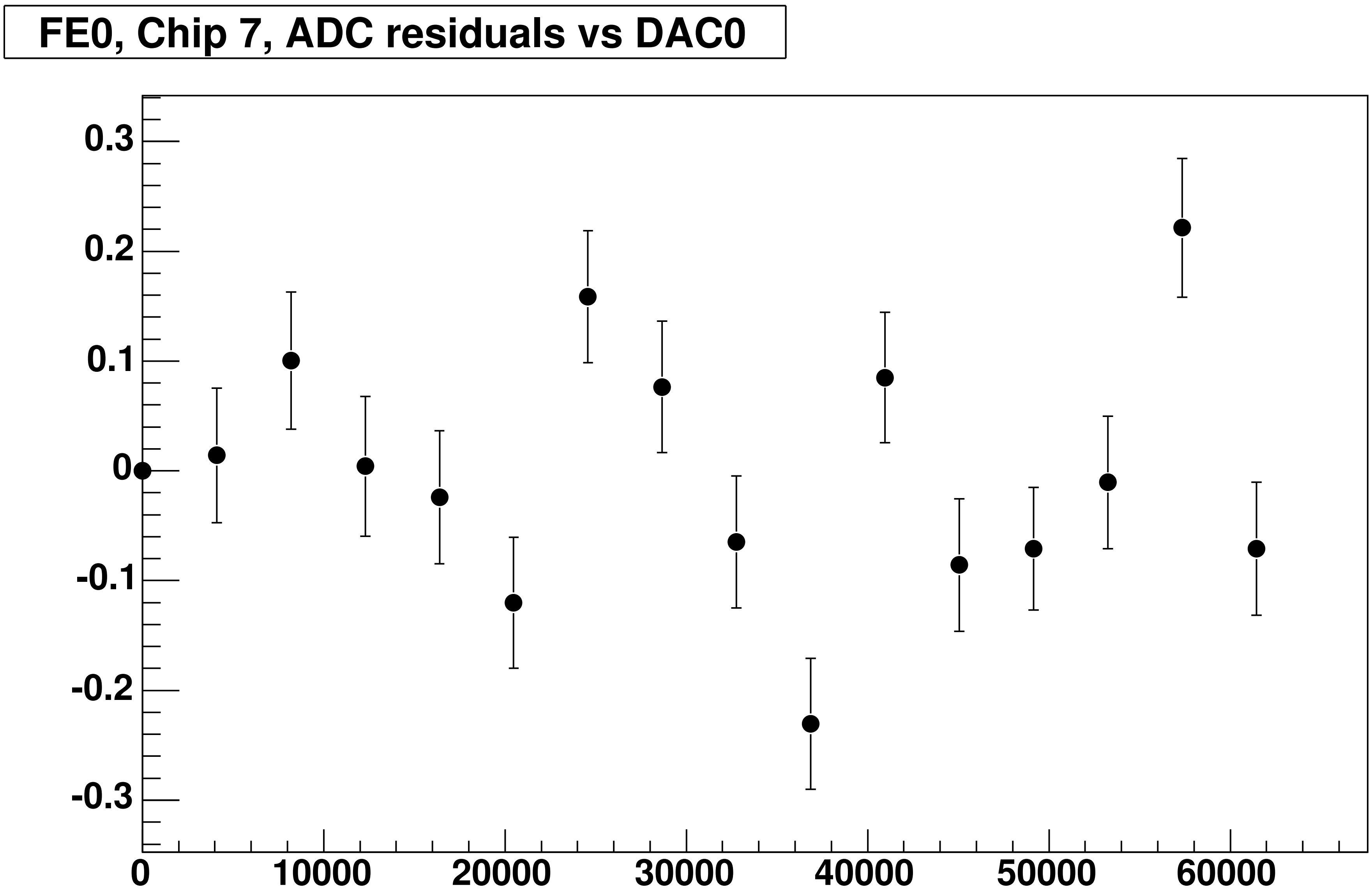

FE0, Chip 6, ADC mean vs DAC1
χ2 / ndf 5454 / 11
p0 17.04 ± 0.04121
p1 0.4528 ± 1.304e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

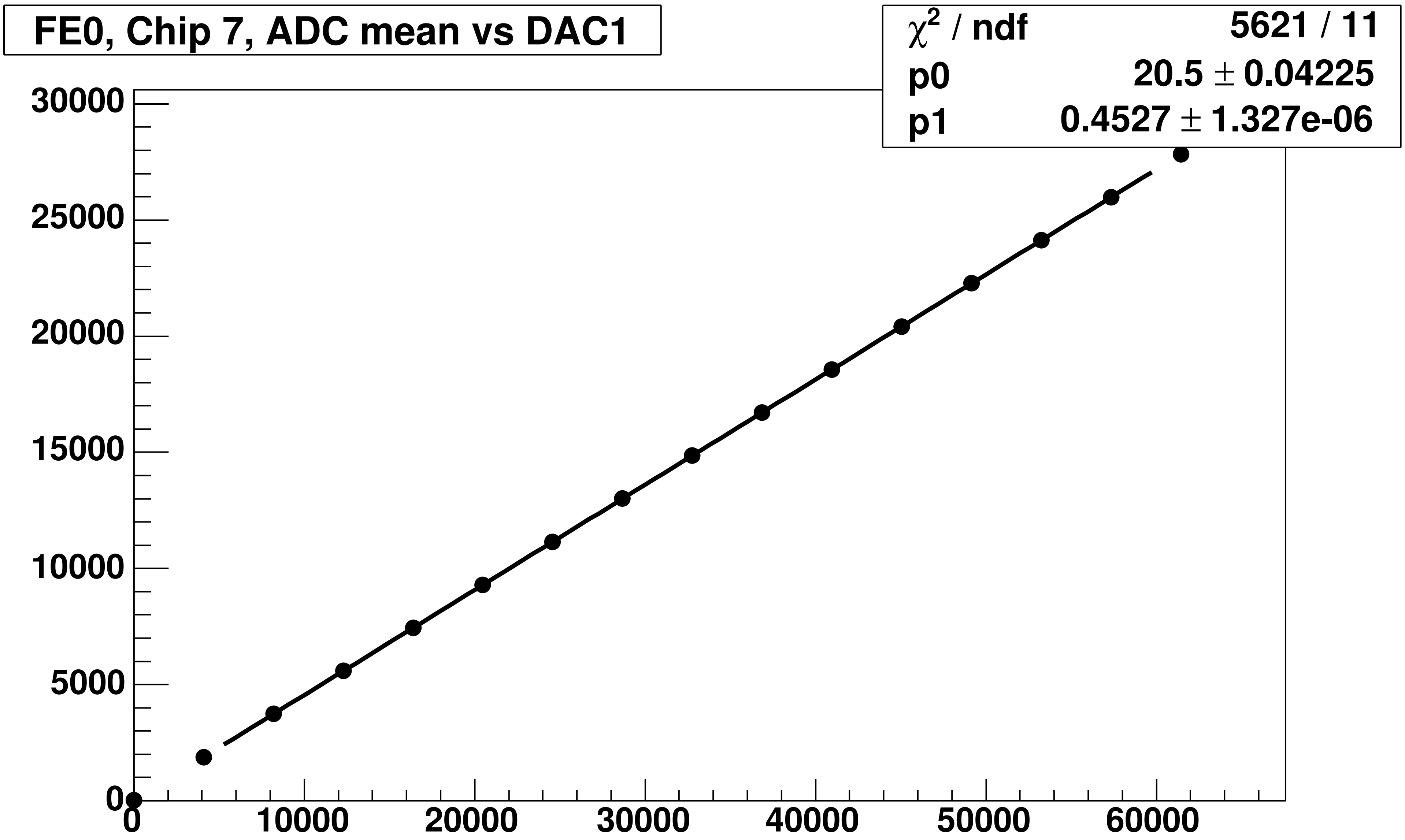

FE0, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

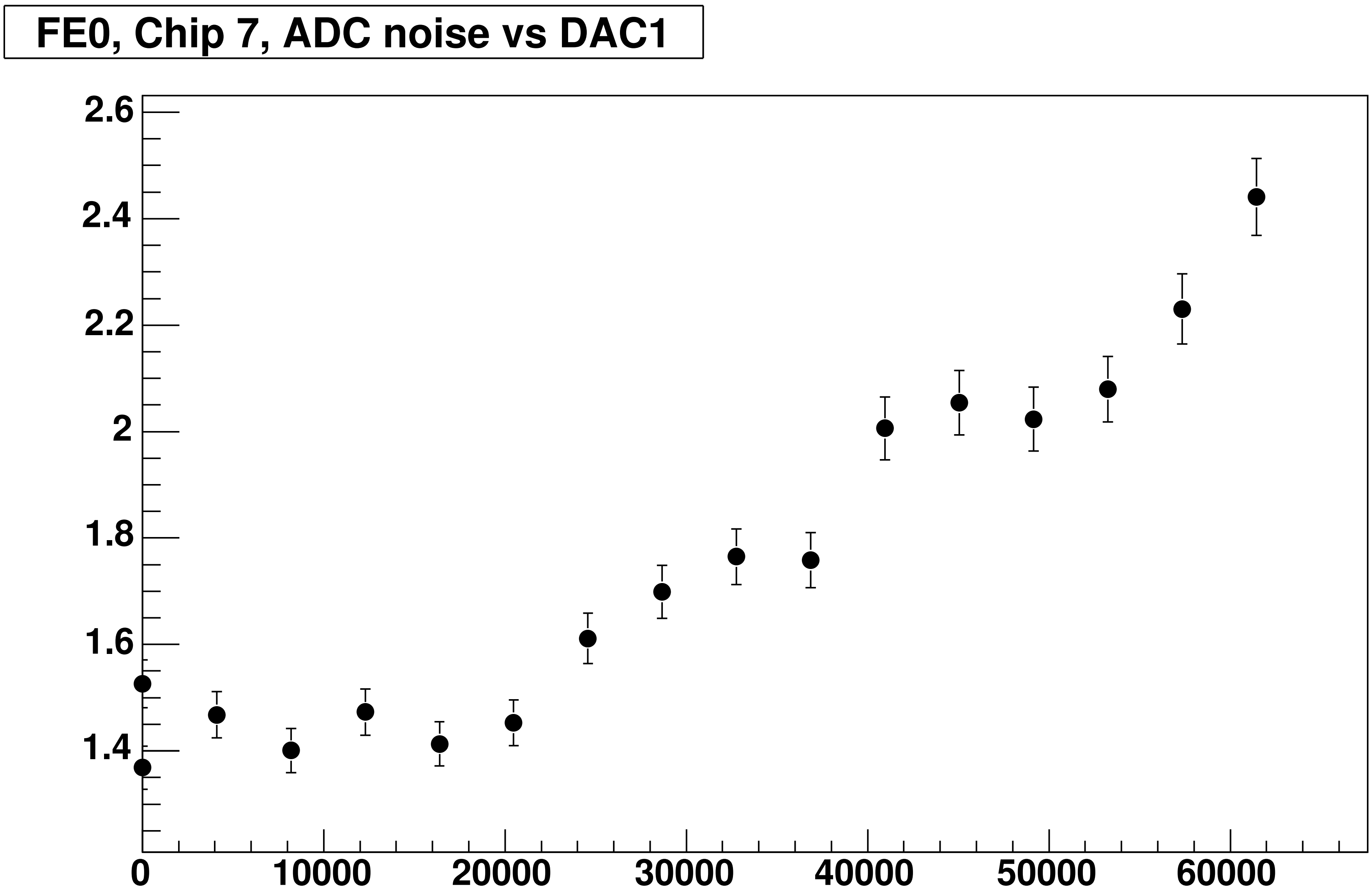

FE0, Chip 6, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000


FE0, Chip 7, ADC mean vs DAC0
χ^2 / ndf 49.55 / 11
p0 22.01 ± 0.04031
p1 1.502e-07 ± 1.107e-06
22.3
22.2
22.1
22
21.9
21.8
21.7
0
10000
20000
30000
40000
50000
60000

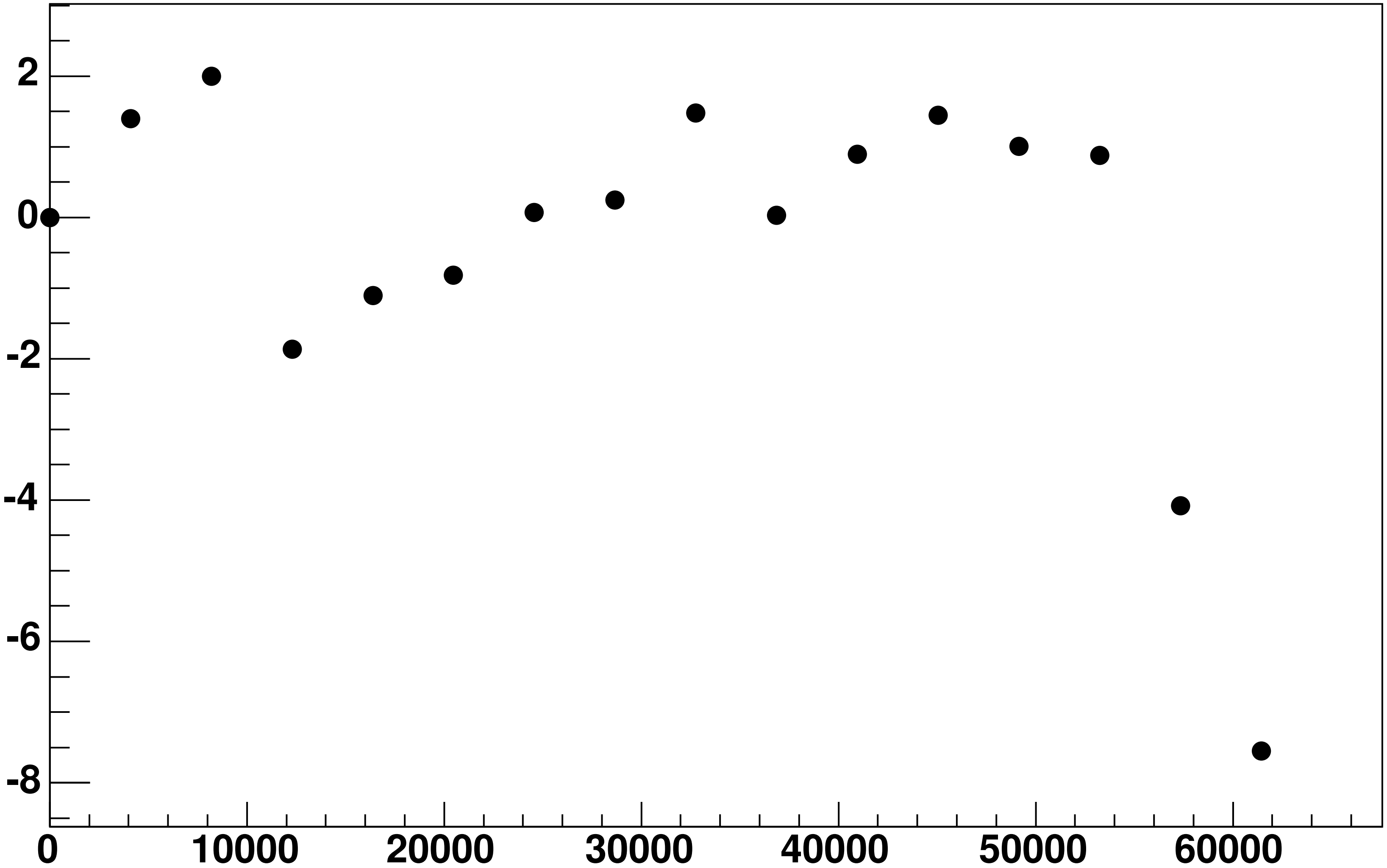

FE0, Chip 7, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

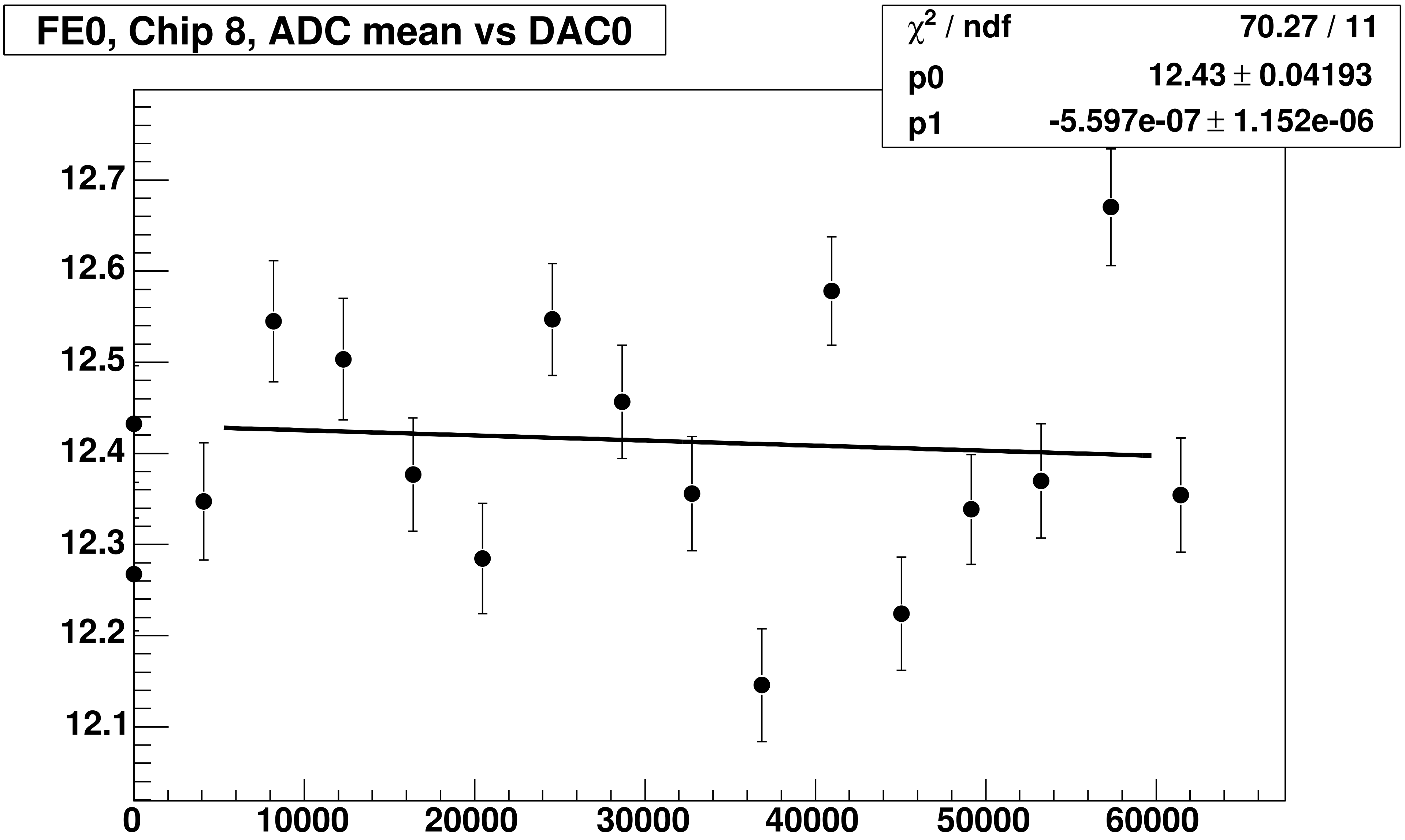

FE0, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE0, Chip 7, ADC mean vs DAC1
χ^2 / ndf 5621 / 11
p0 20.5 ± 0.04225
p1 0.4527 ± 1.327e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

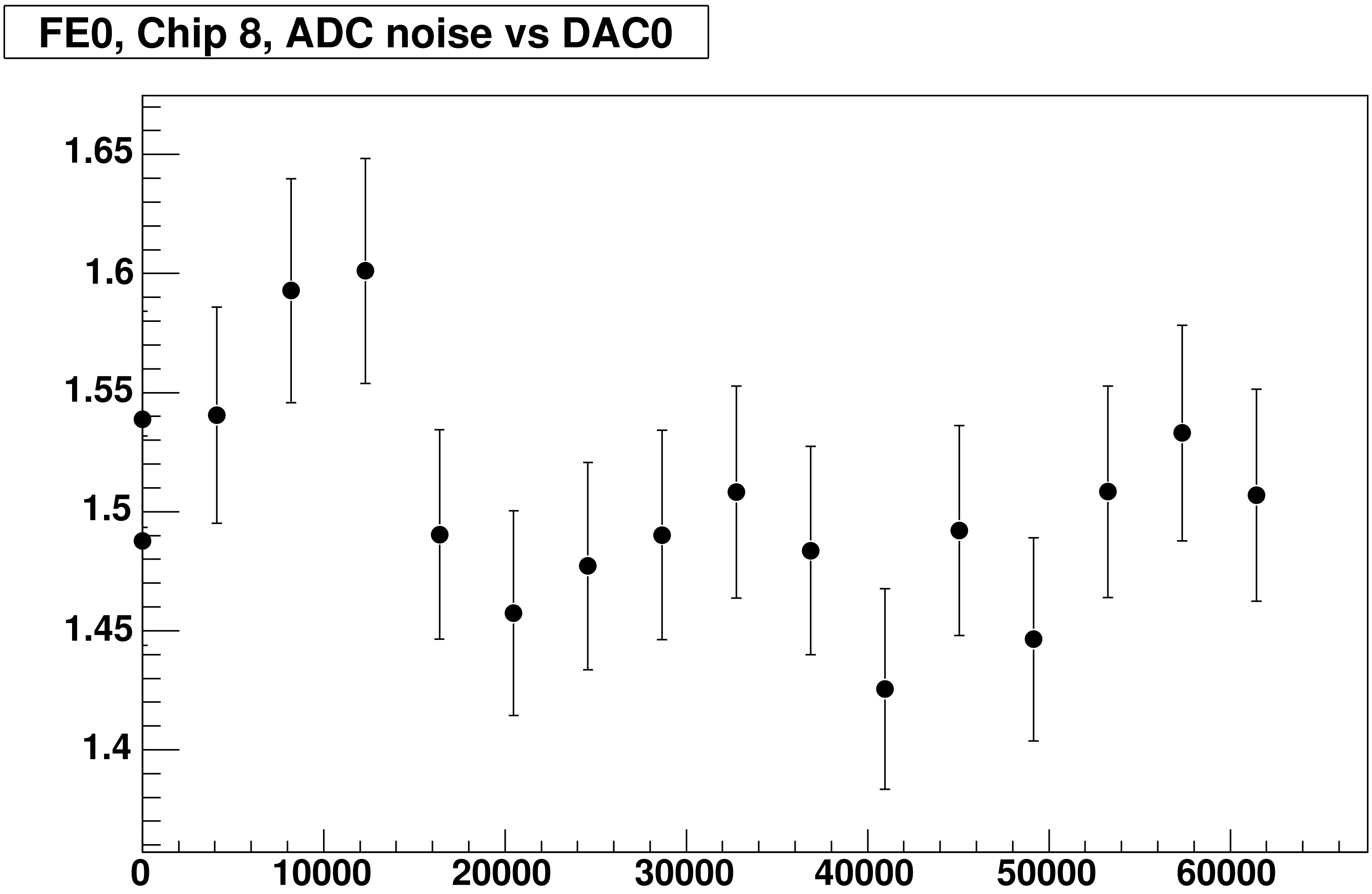

FE0, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

FE0, Chip 7, ADC residuals vs DAC1

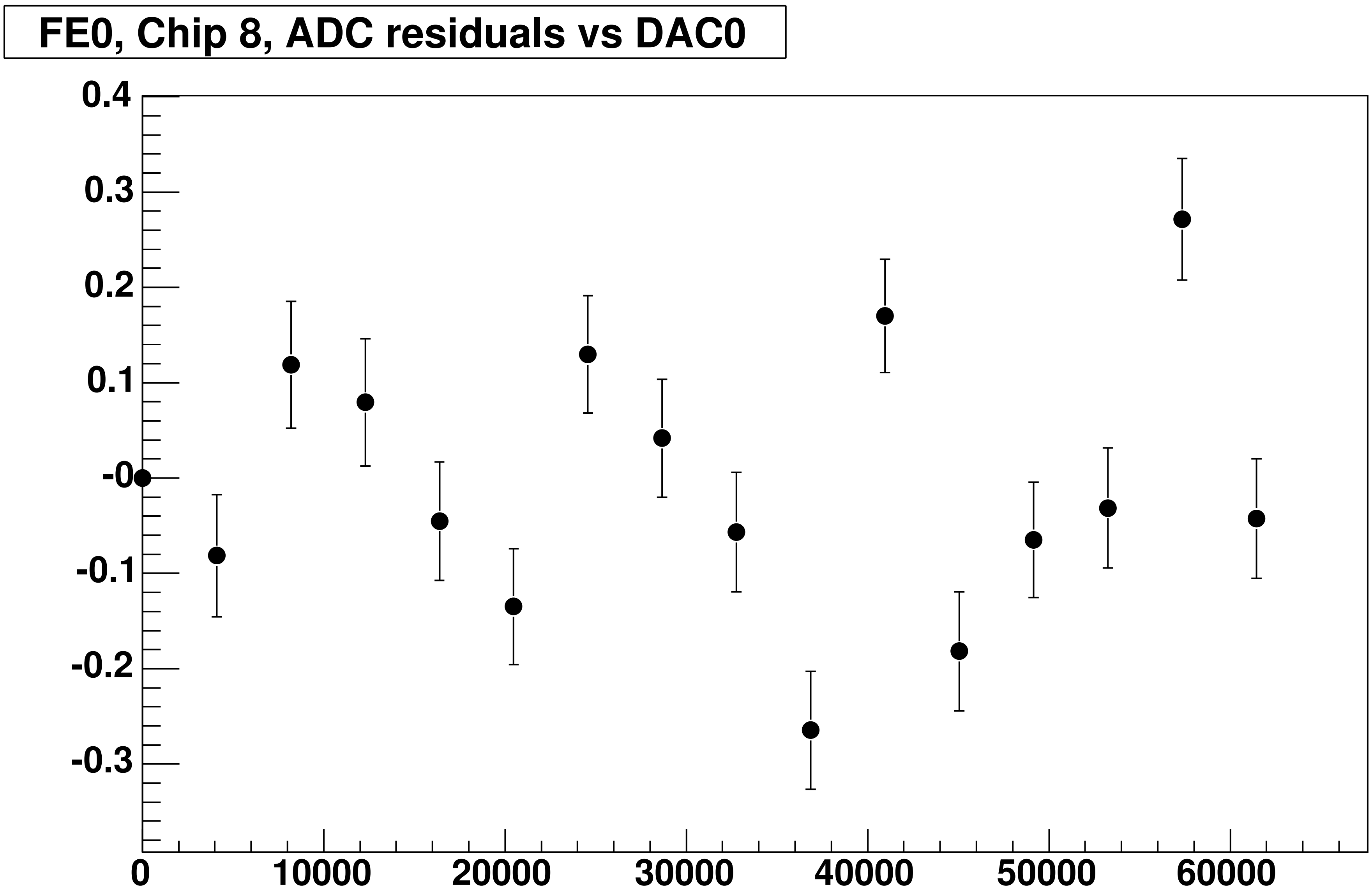


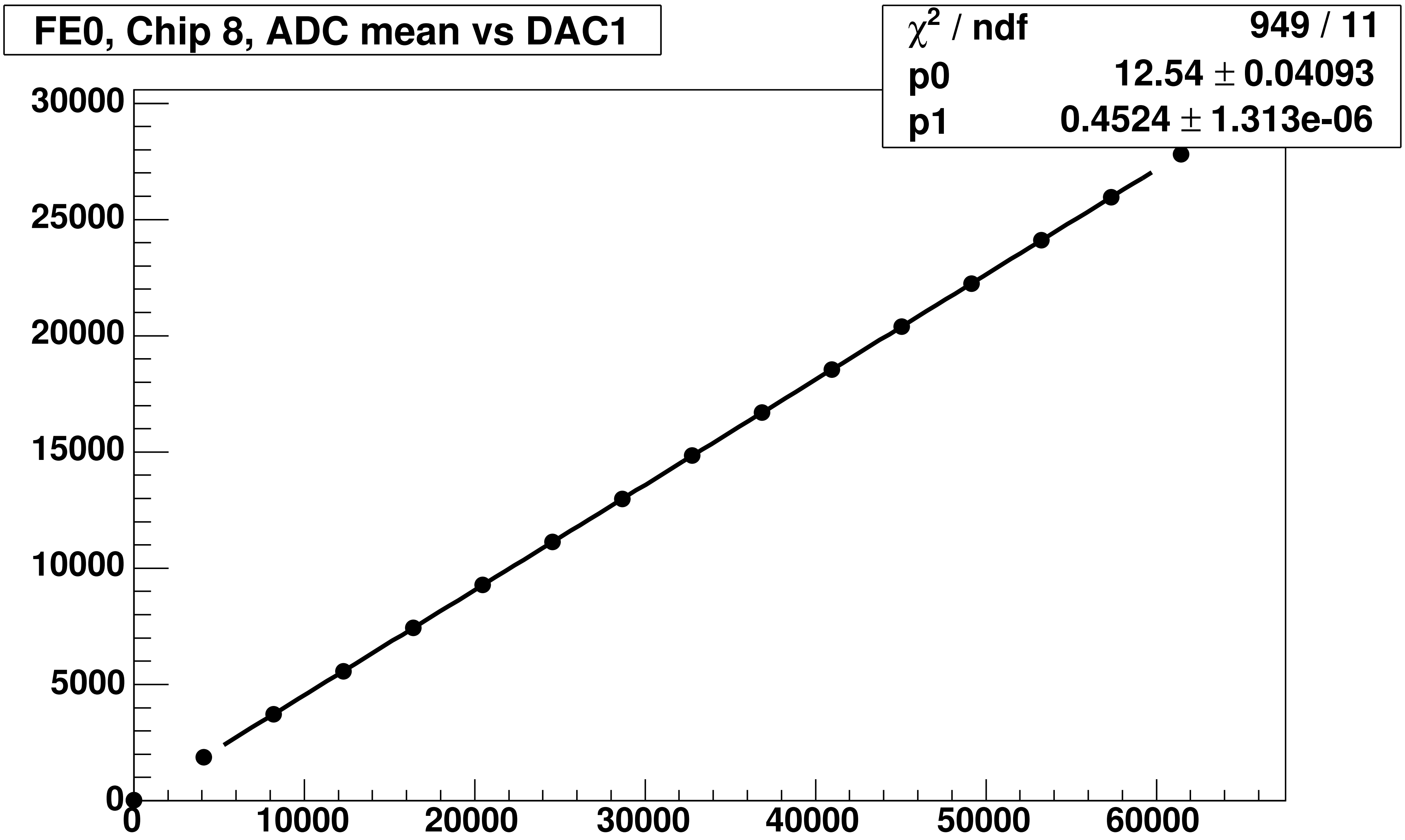


FE0, Chip 8, ADC mean vs DAC0
χ^2 / ndf 70.27 / 11
p0 12.43 ± 0.04193
p1 -5.597e-07 ± 1.152e-06
12.1
12.2
12.3
12.4
12.5
12.6
12.7
0
10000
20000
30000
40000
50000
60000

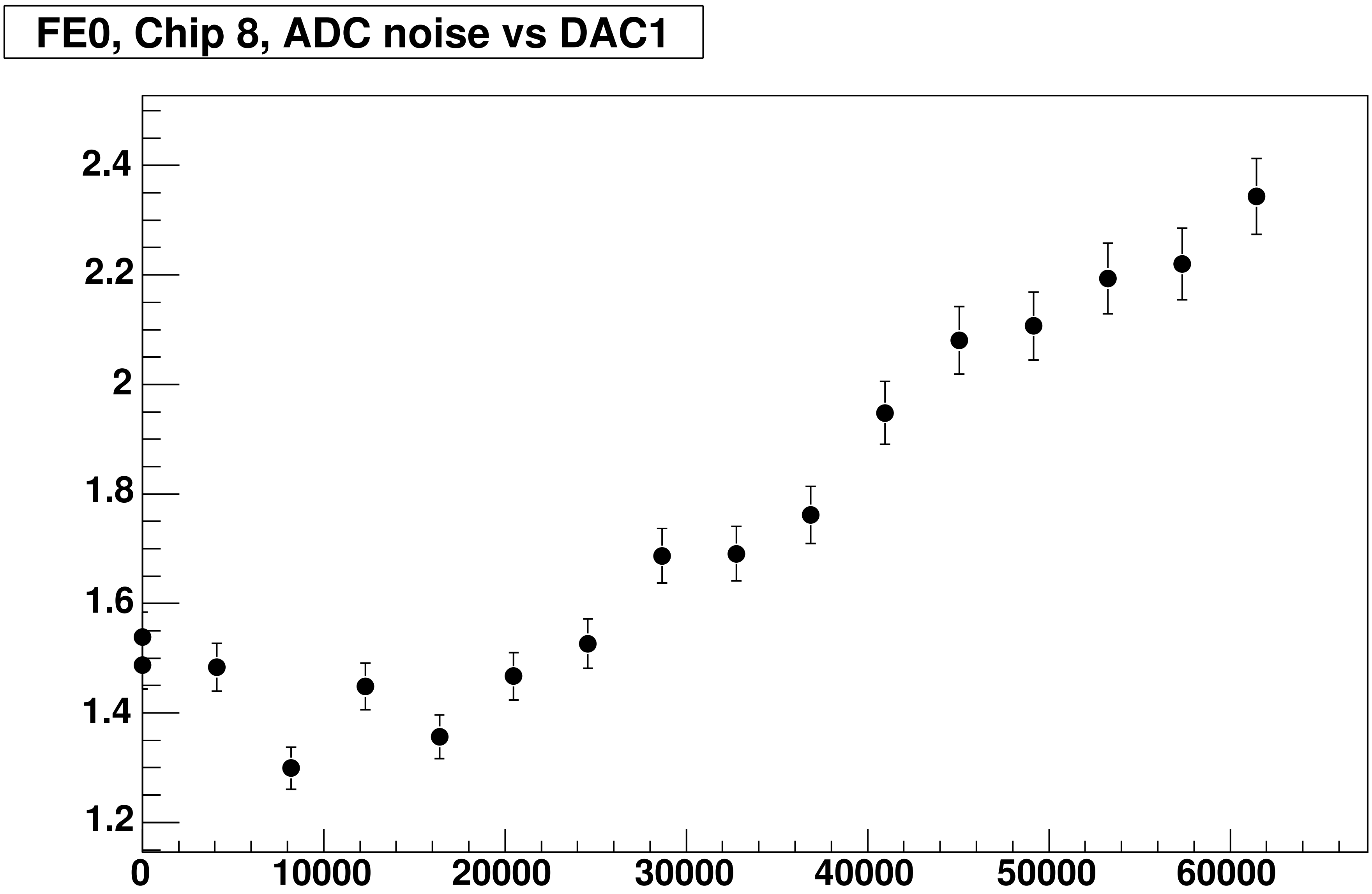


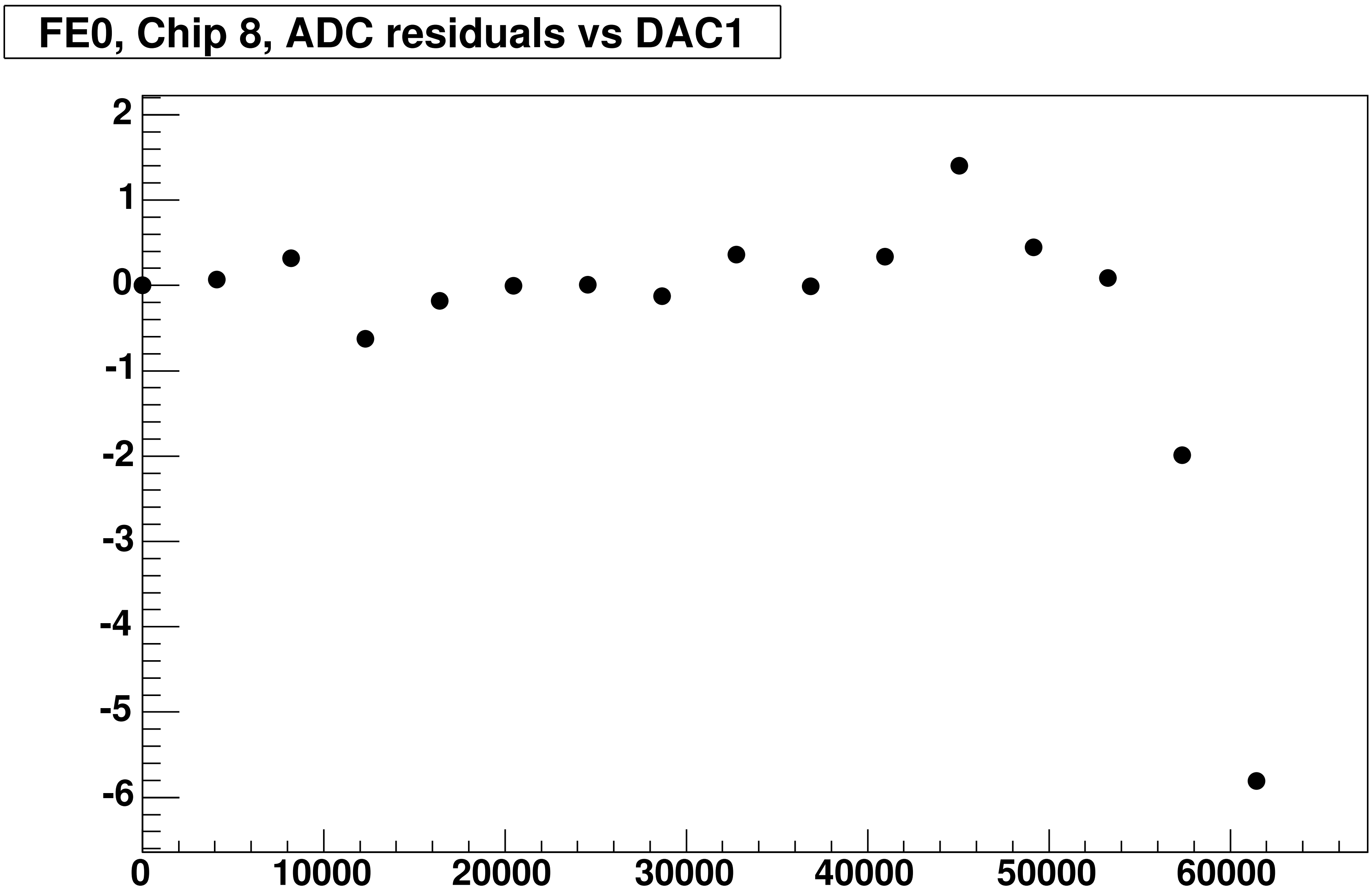
FE0, Chip 8, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

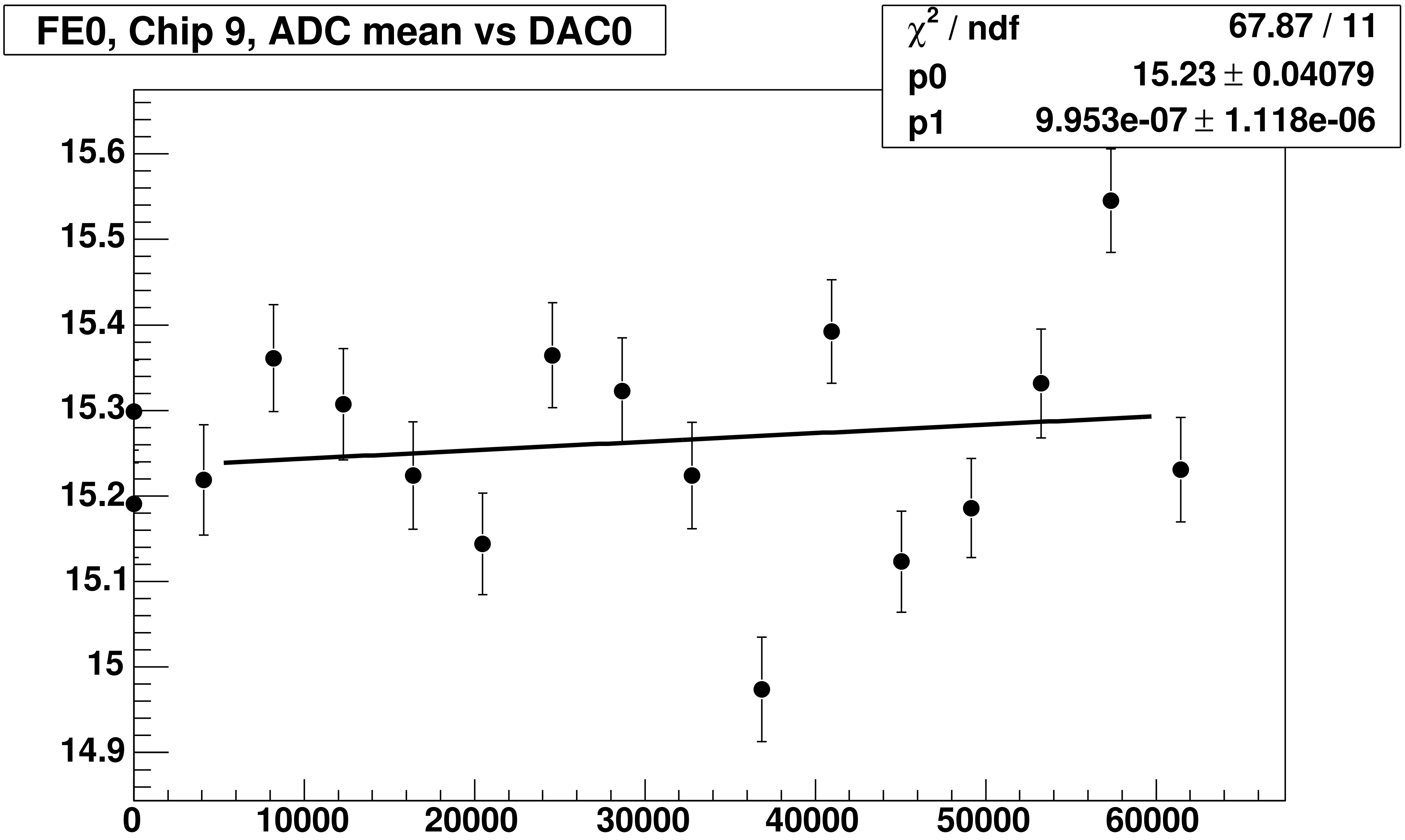

FE0, Chip 8, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



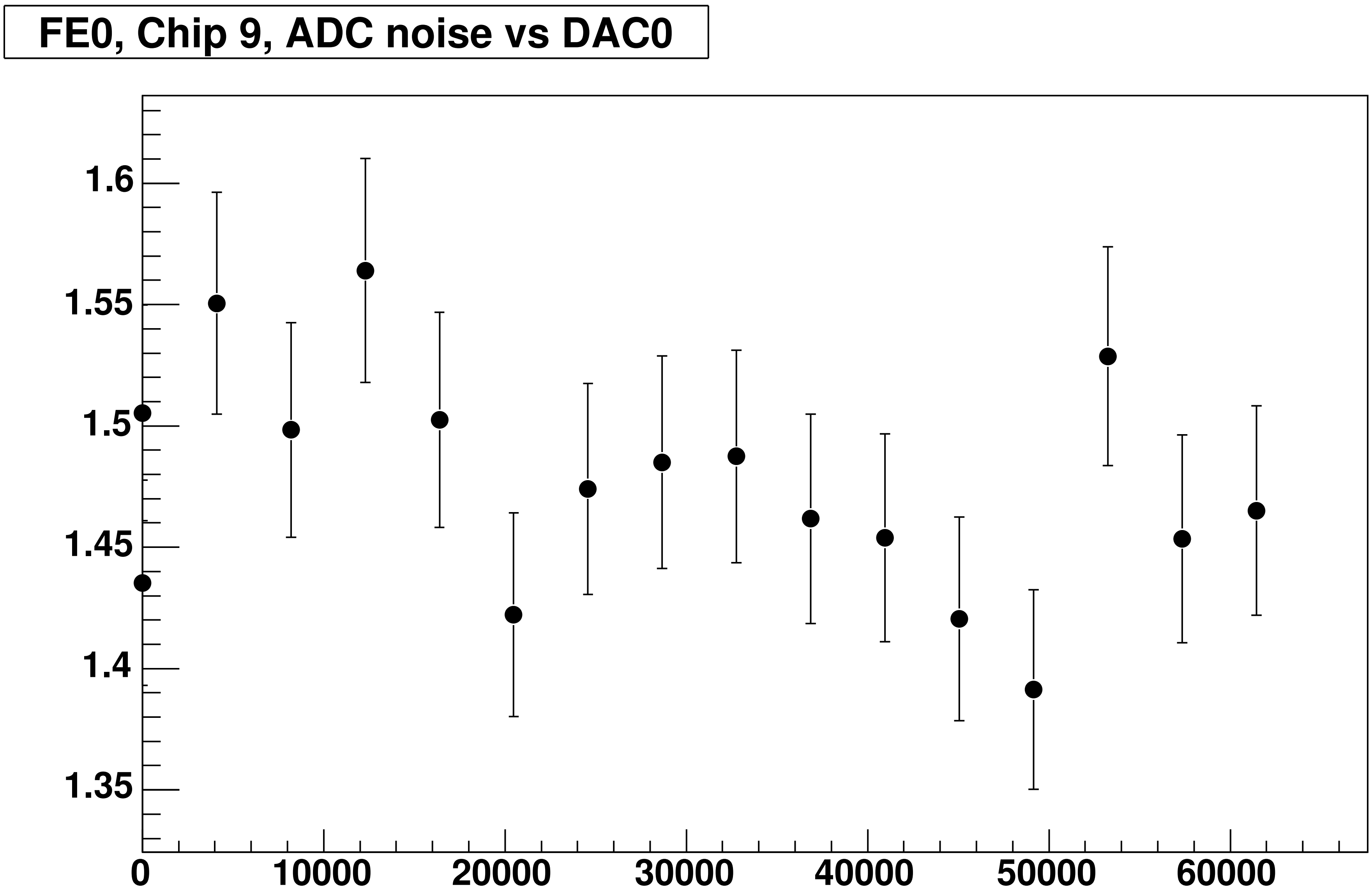
FE0, Chip 8, ADC mean vs DAC1
χ^2 / ndf 949 / 11
p0 12.54 ± 0.04093
p1 0.4524 ± 1.313e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE0, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

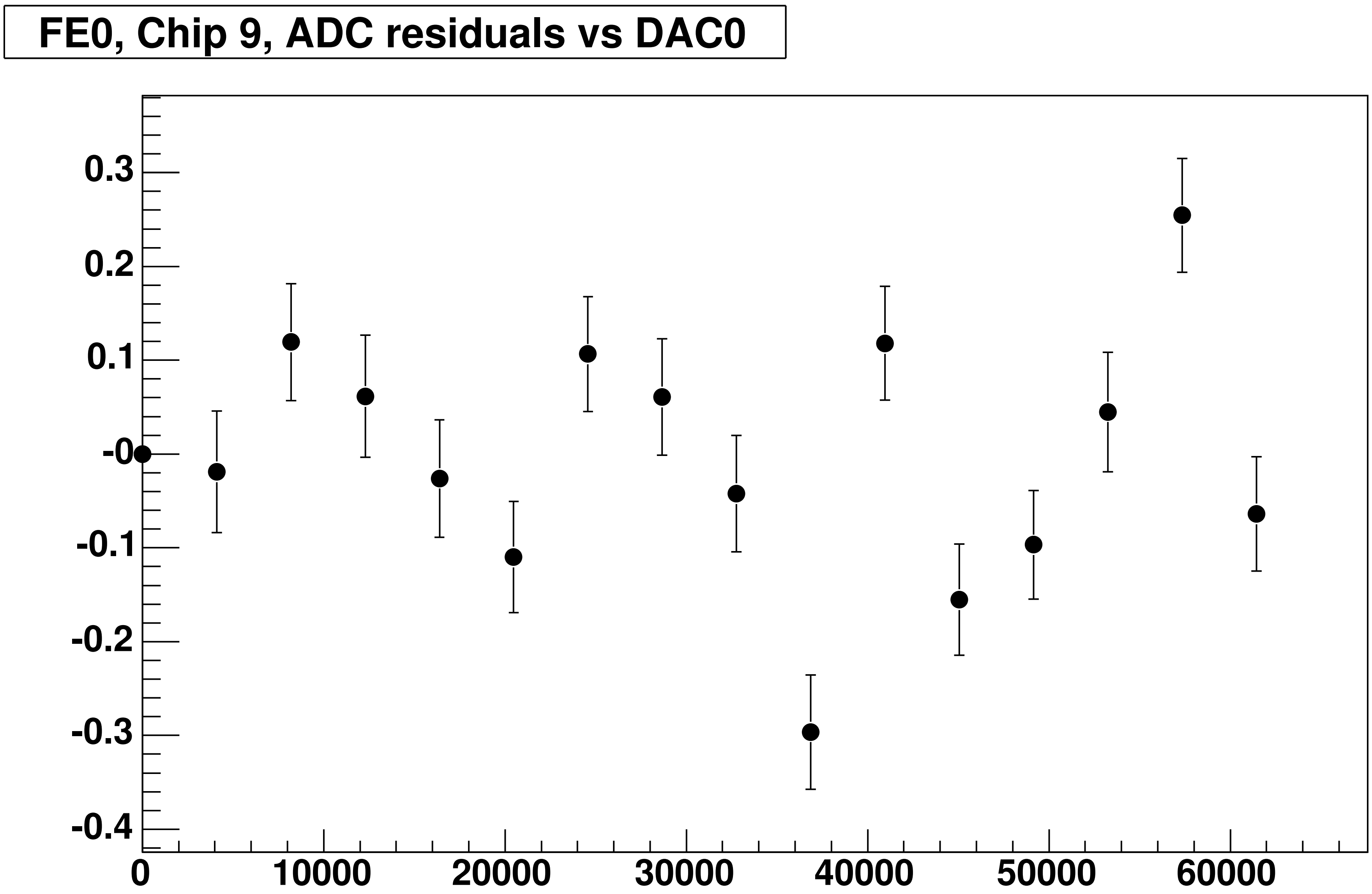

FE0, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

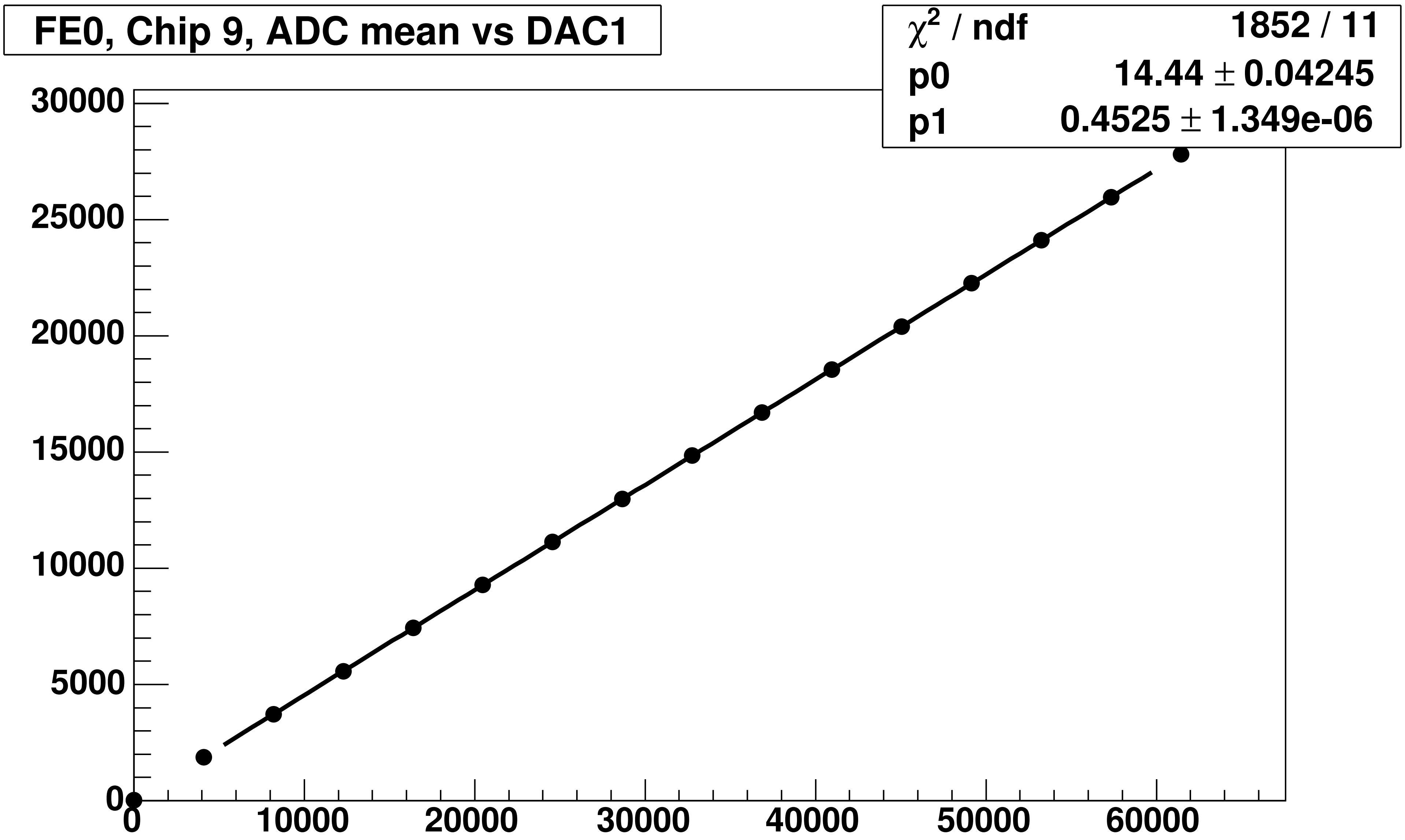


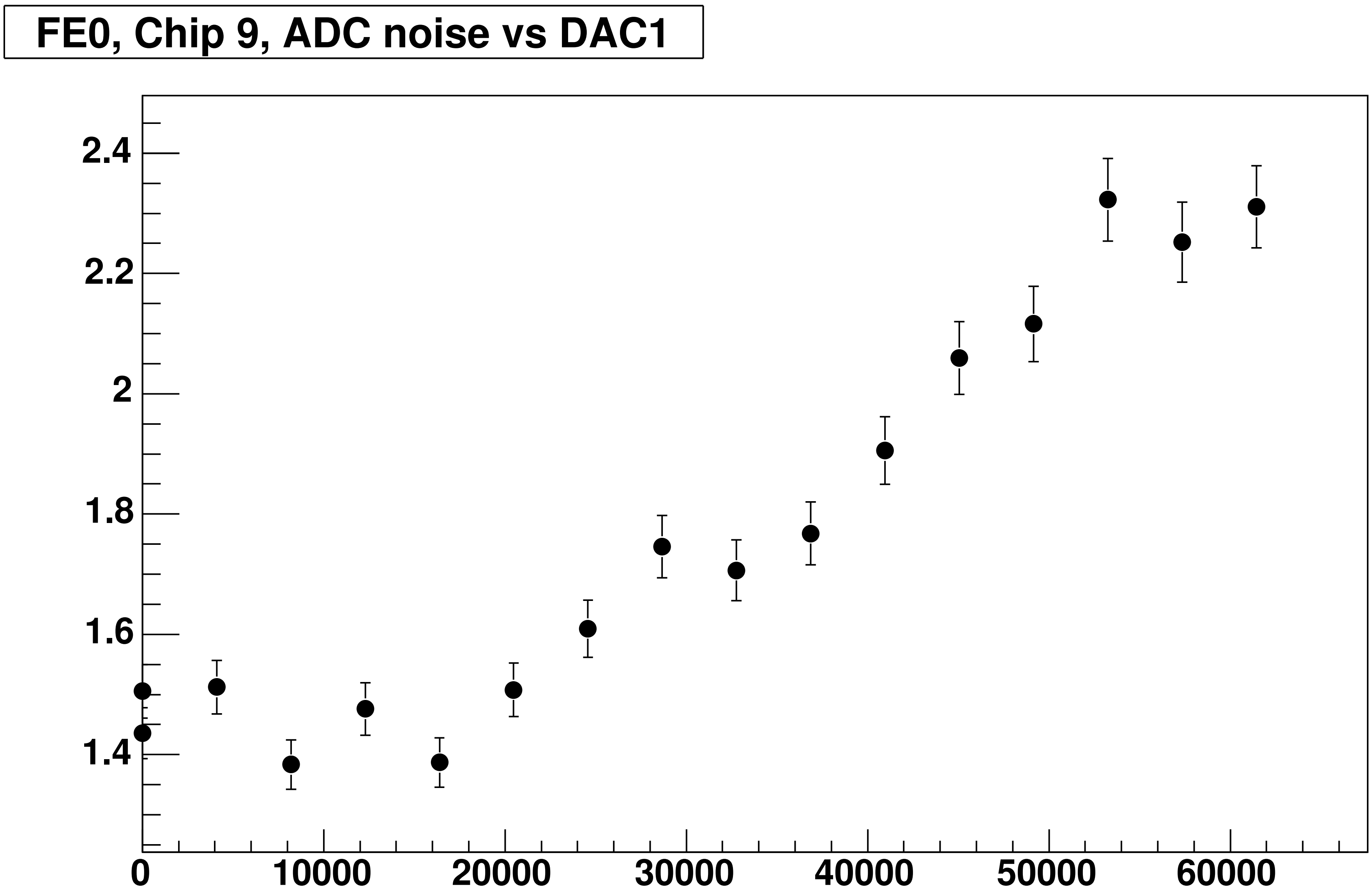
FE0, Chip 9, ADC mean vs DAC0
χ^2 / ndf 67.87 / 11
p0 15.23 ± 0.04079
p1 9.953e-07 ± 1.118e-06
15.6
15.5
15.4
15.3
15.2
15.1
15
14.9
0
10000
20000
30000
40000
50000
60000

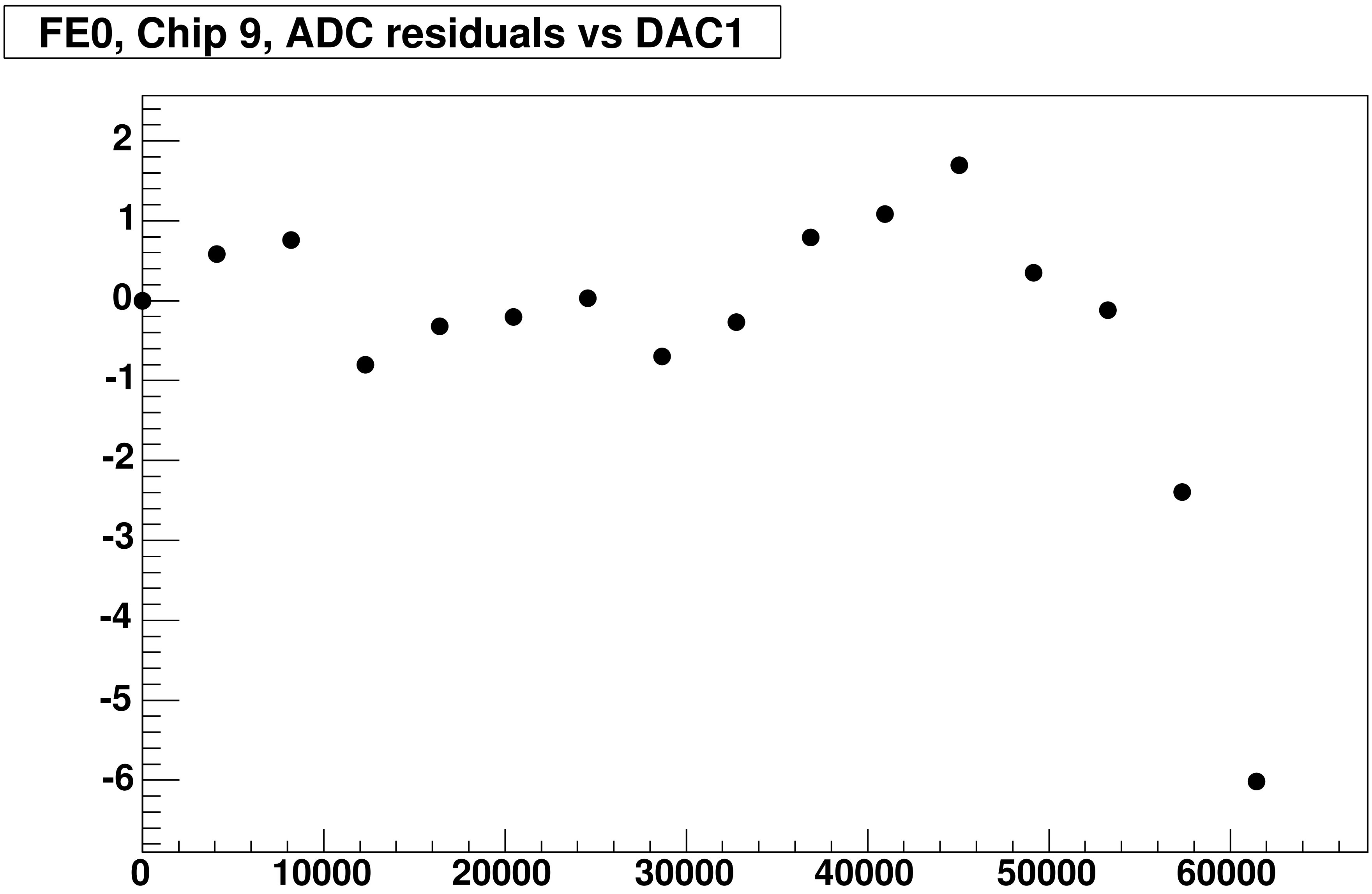


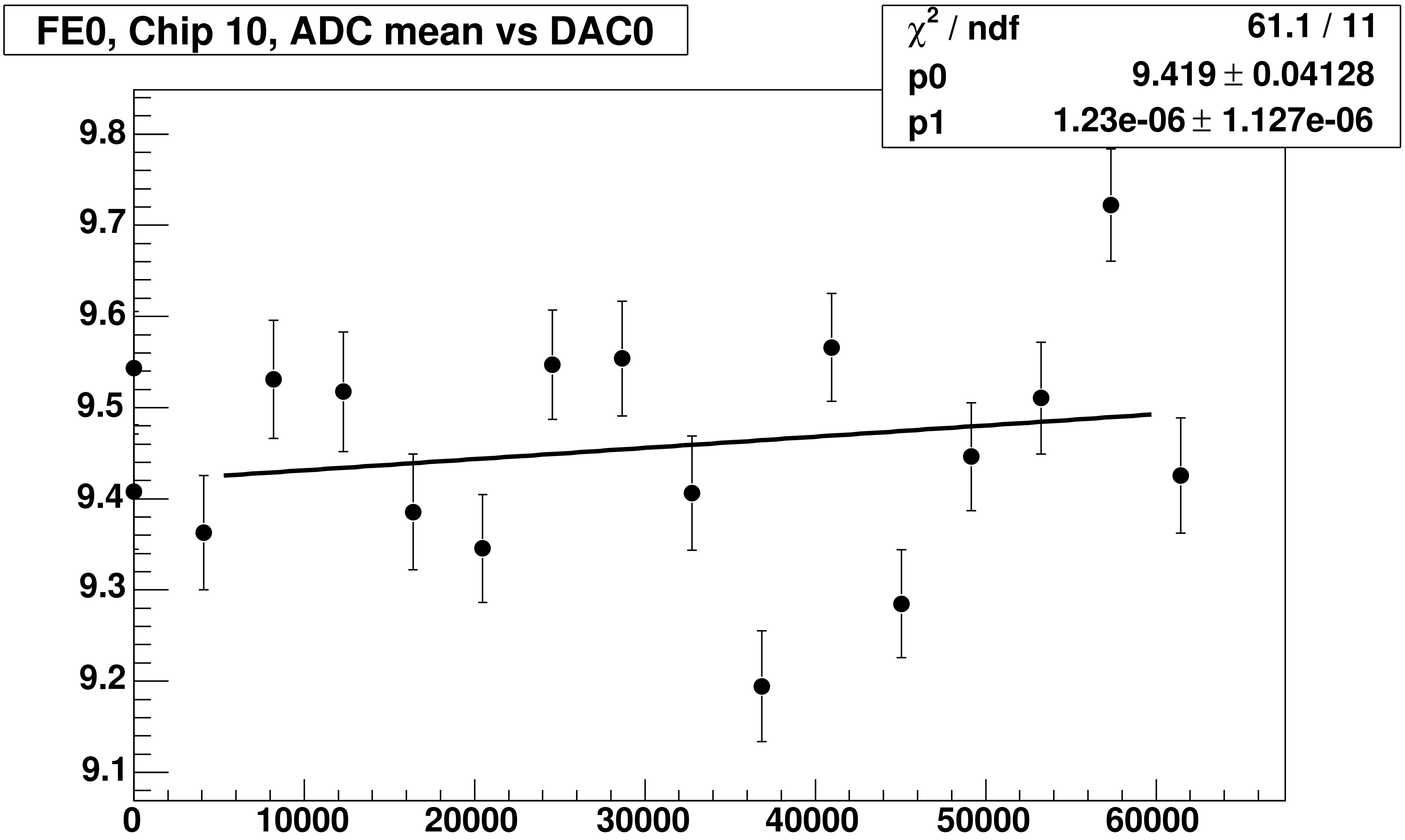
FE0, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

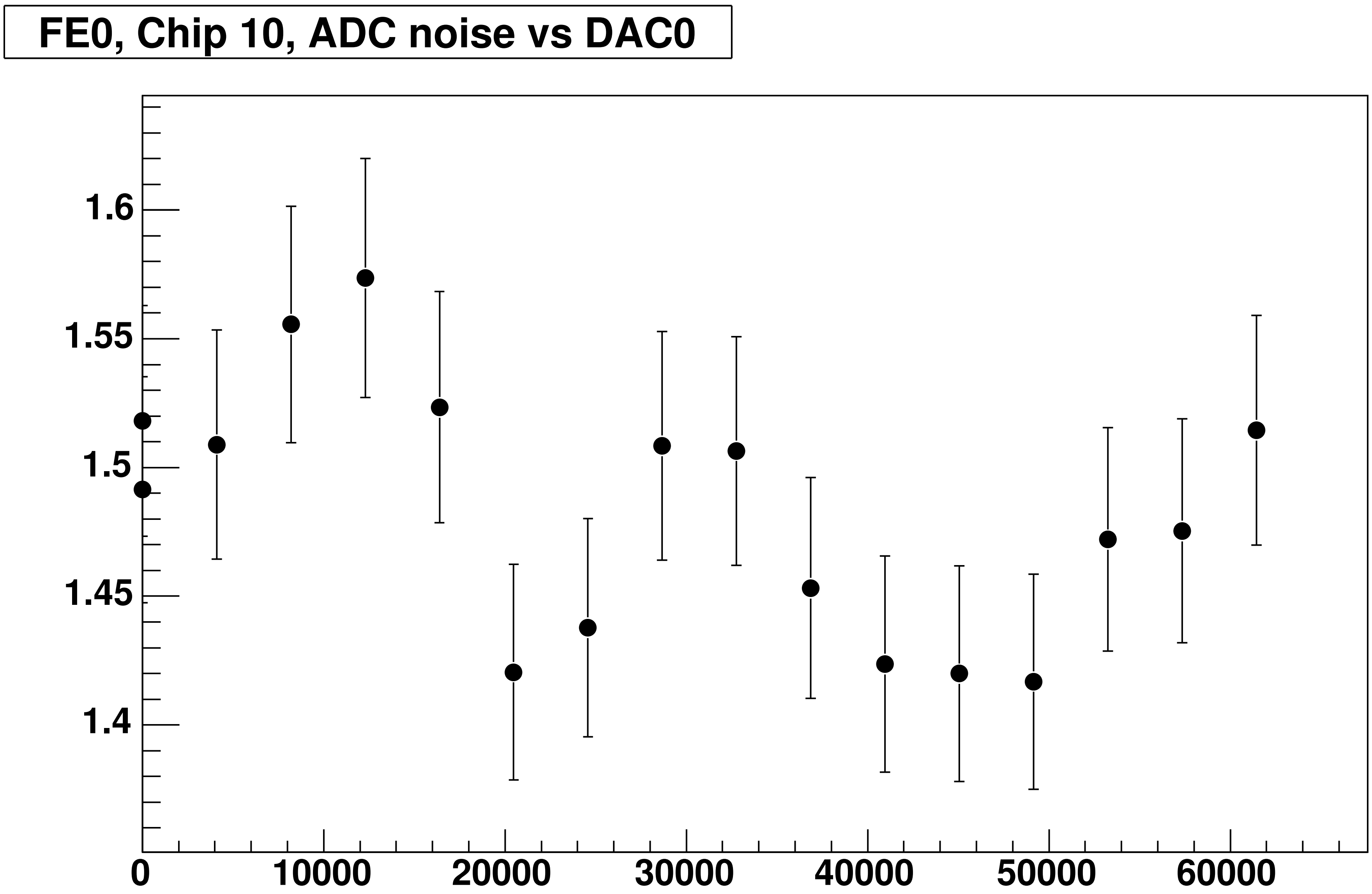

FE0, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

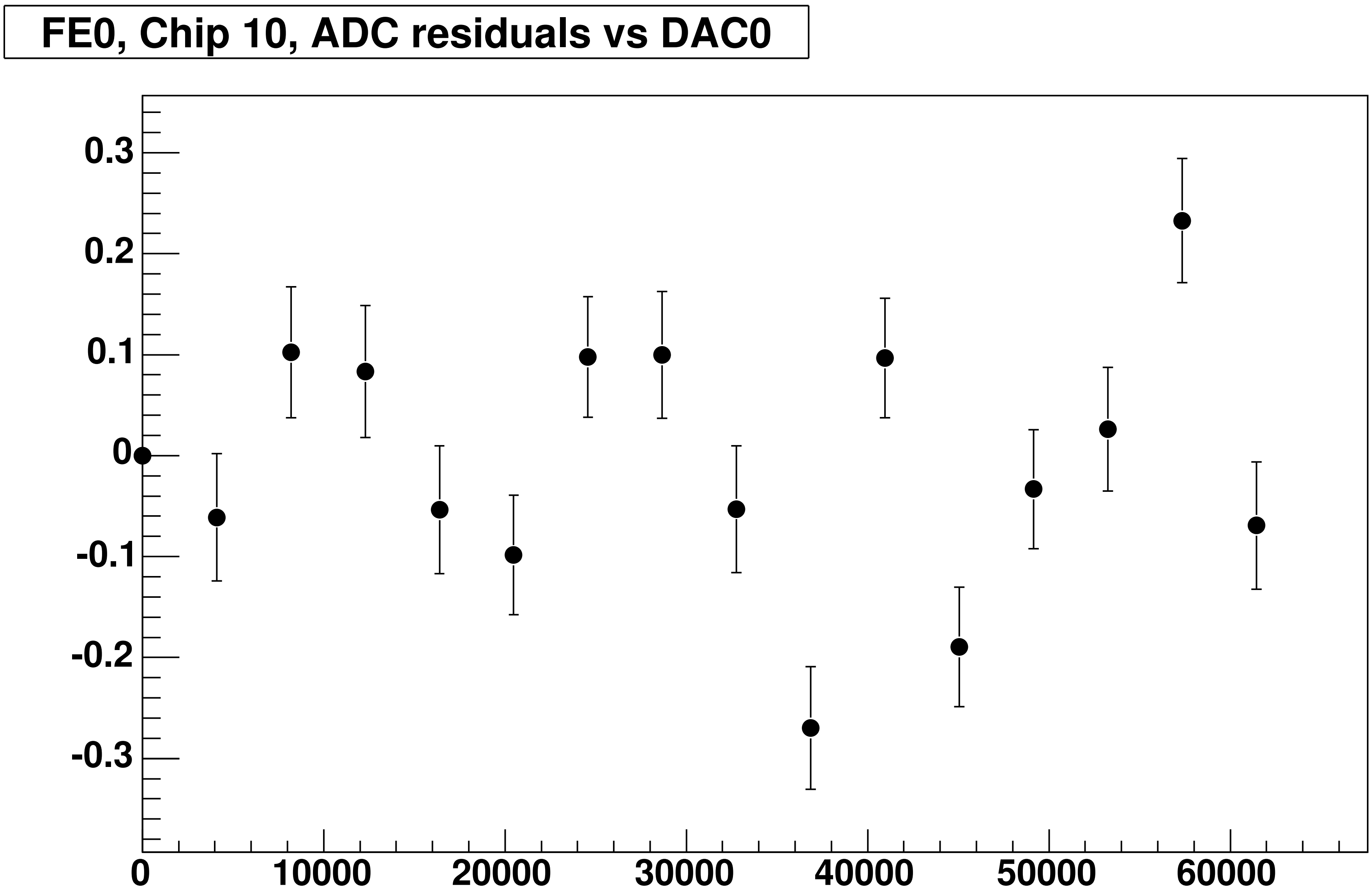

FE0, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1852 / 11
p0 14.44 ± 0.04245
p1 0.4525 ± 1.349e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

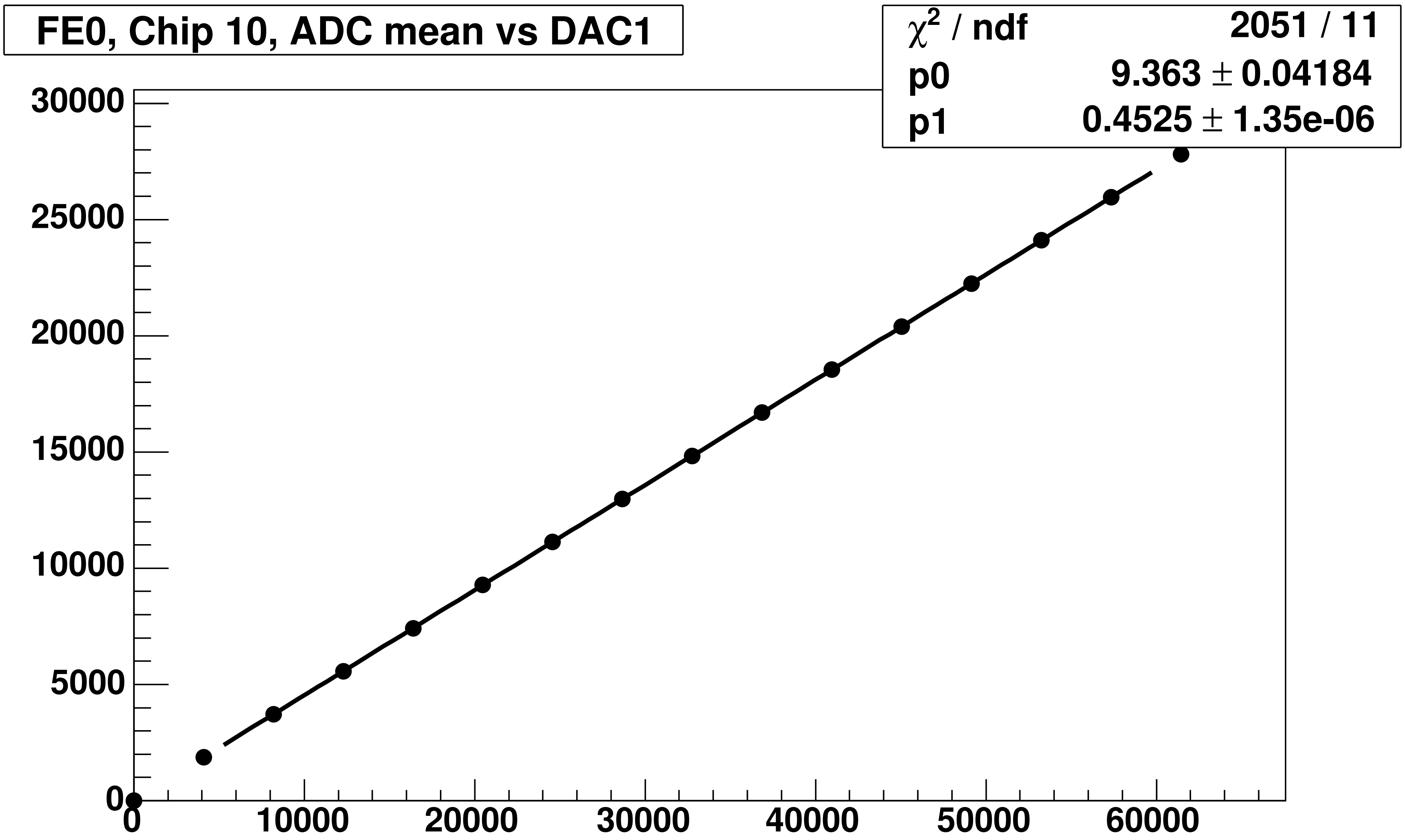

FE0, Chip 9, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

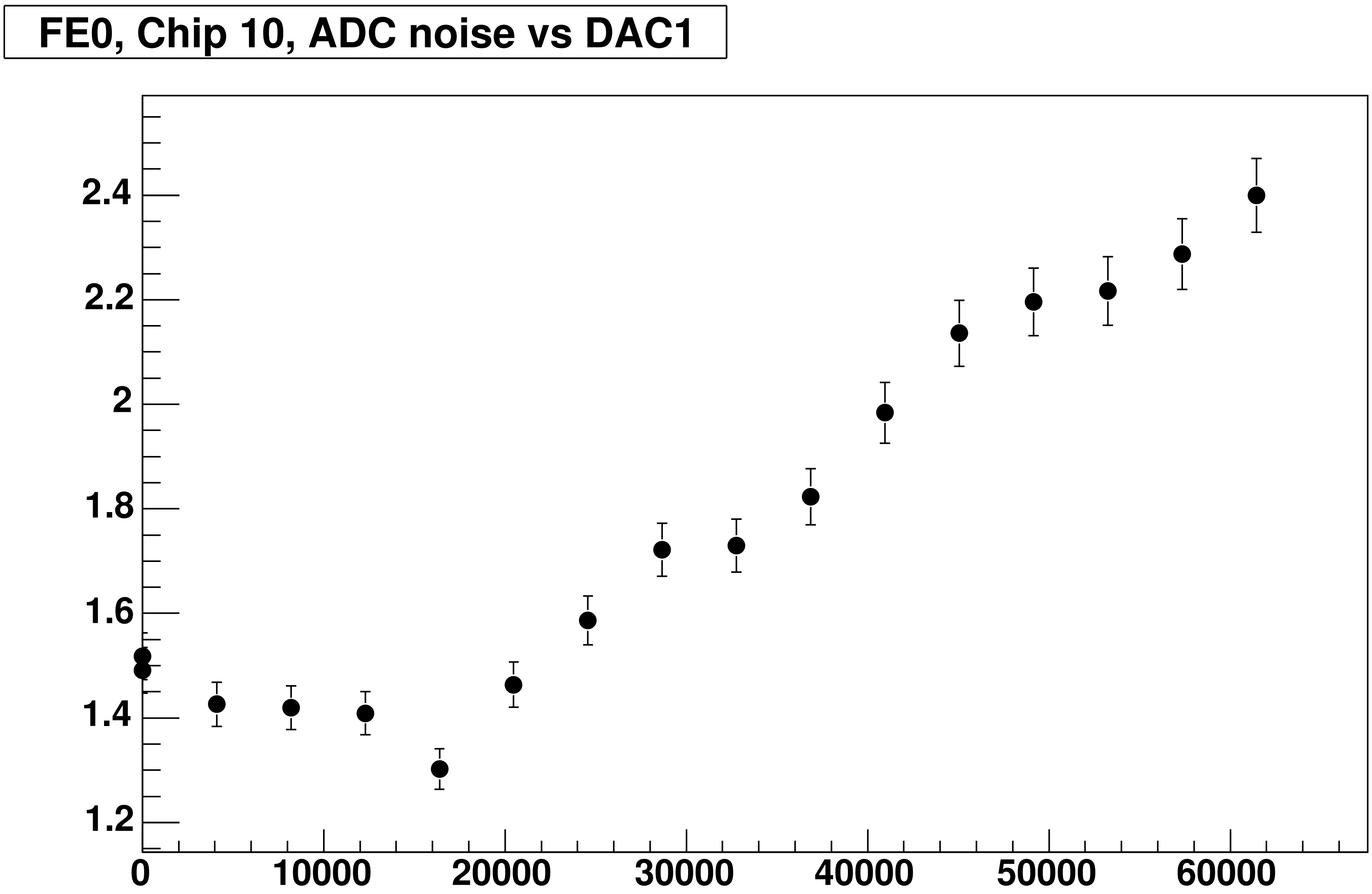

FE0, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE0, Chip 10, ADC mean vs DAC0
χ^2 / ndf 61.1 / 11
p0 9.419 ± 0.04128
p1 1.23e-06 ± 1.127e-06
9.1
9.2
9.3
9.4
9.5
9.6
9.7
9.8
0
10000
20000
30000
40000
50000
60000

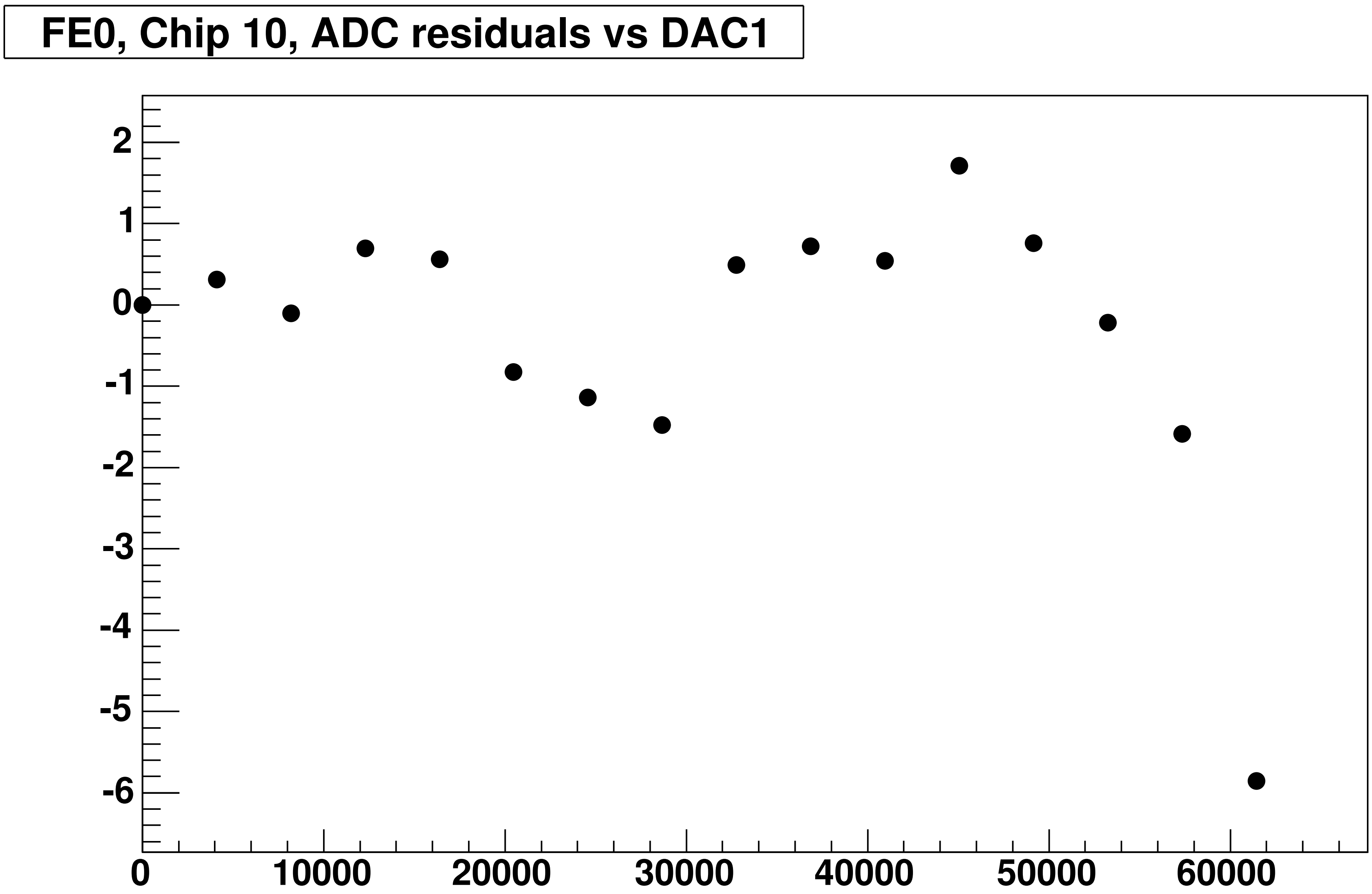

FE0, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

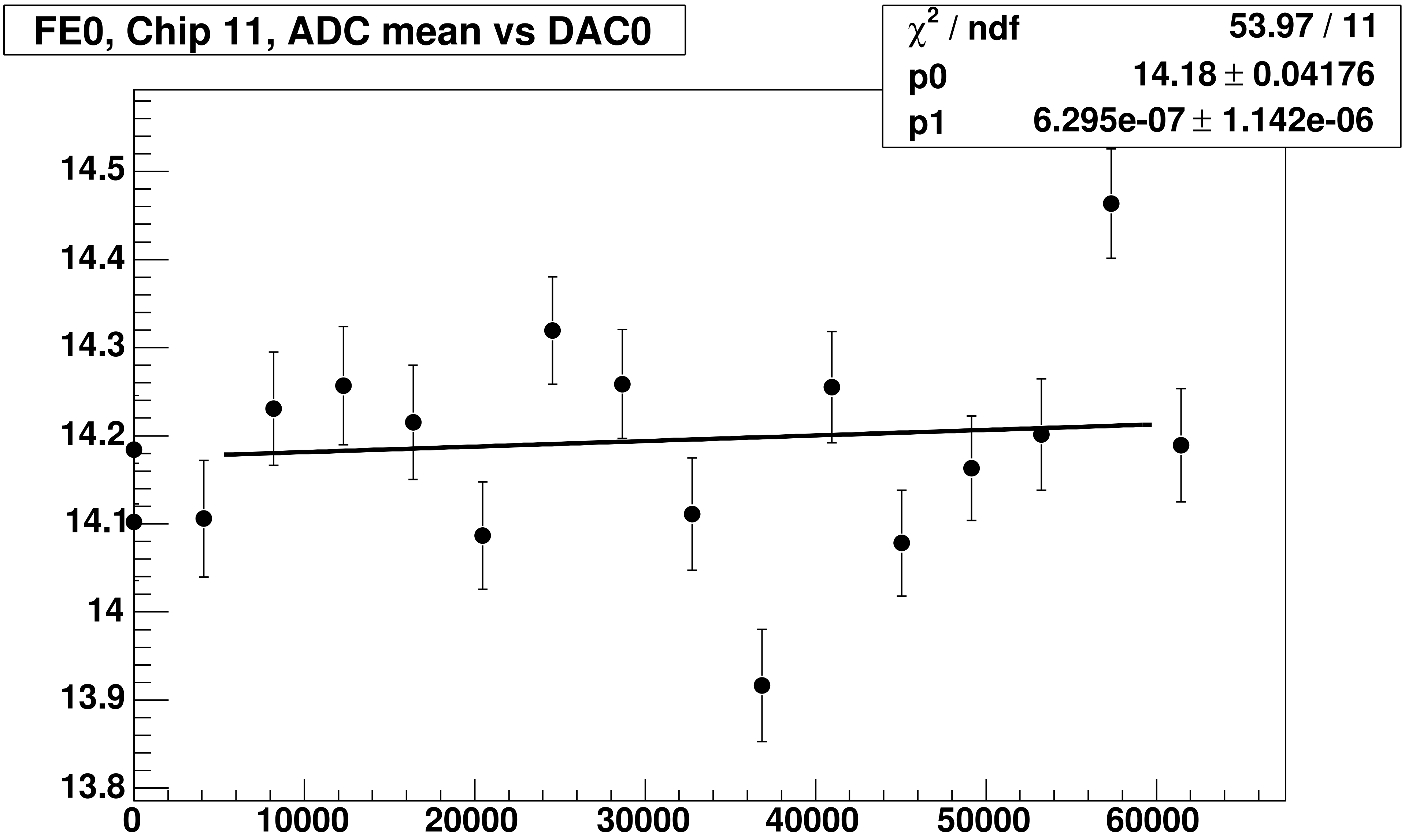

FE0, Chip 10, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE0, Chip 10, ADC mean vs DAC1
χ2 / ndf 2051 / 11
p0 9.363 ± 0.04184
p1 0.4525 ± 1.35e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

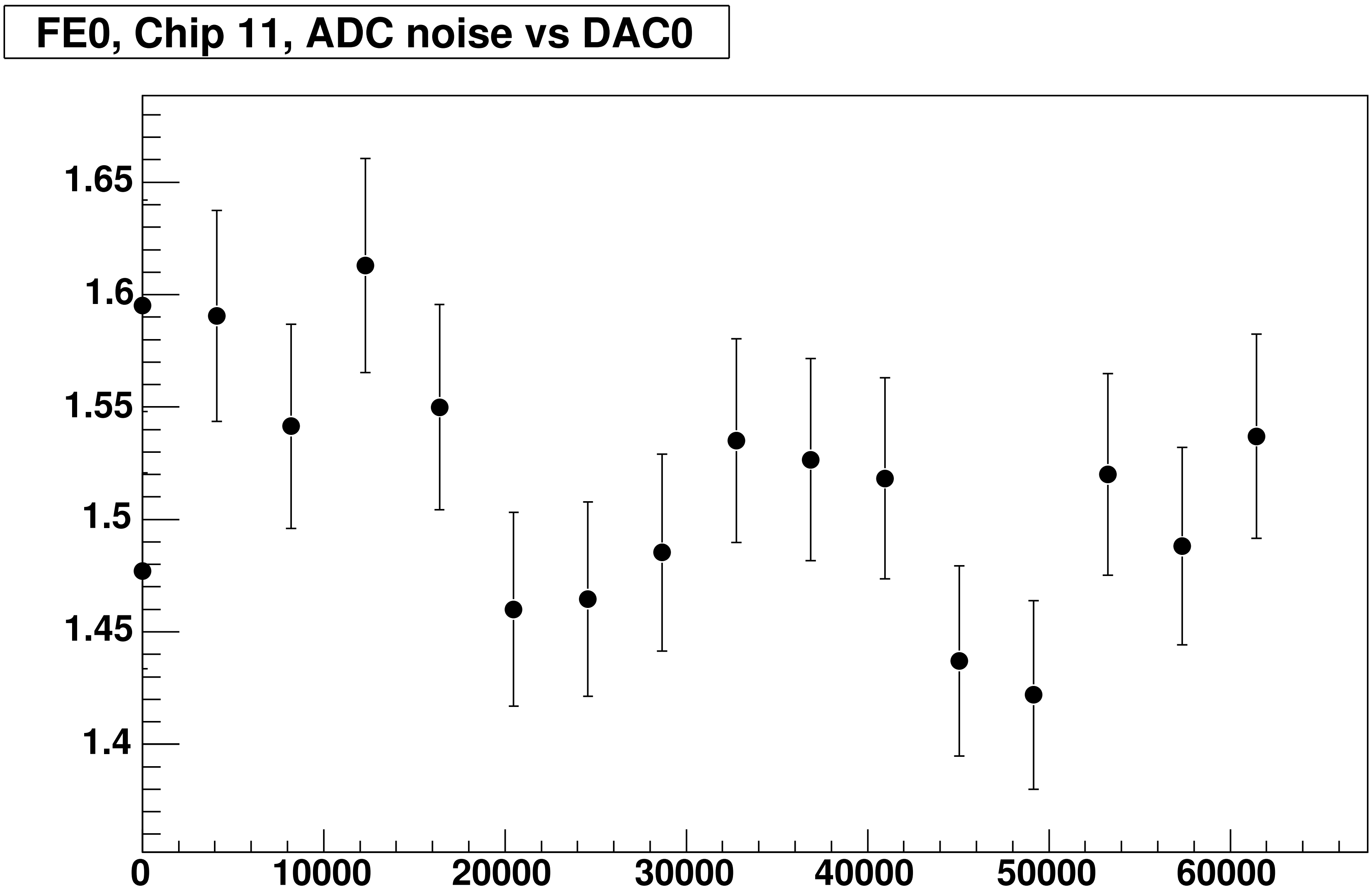


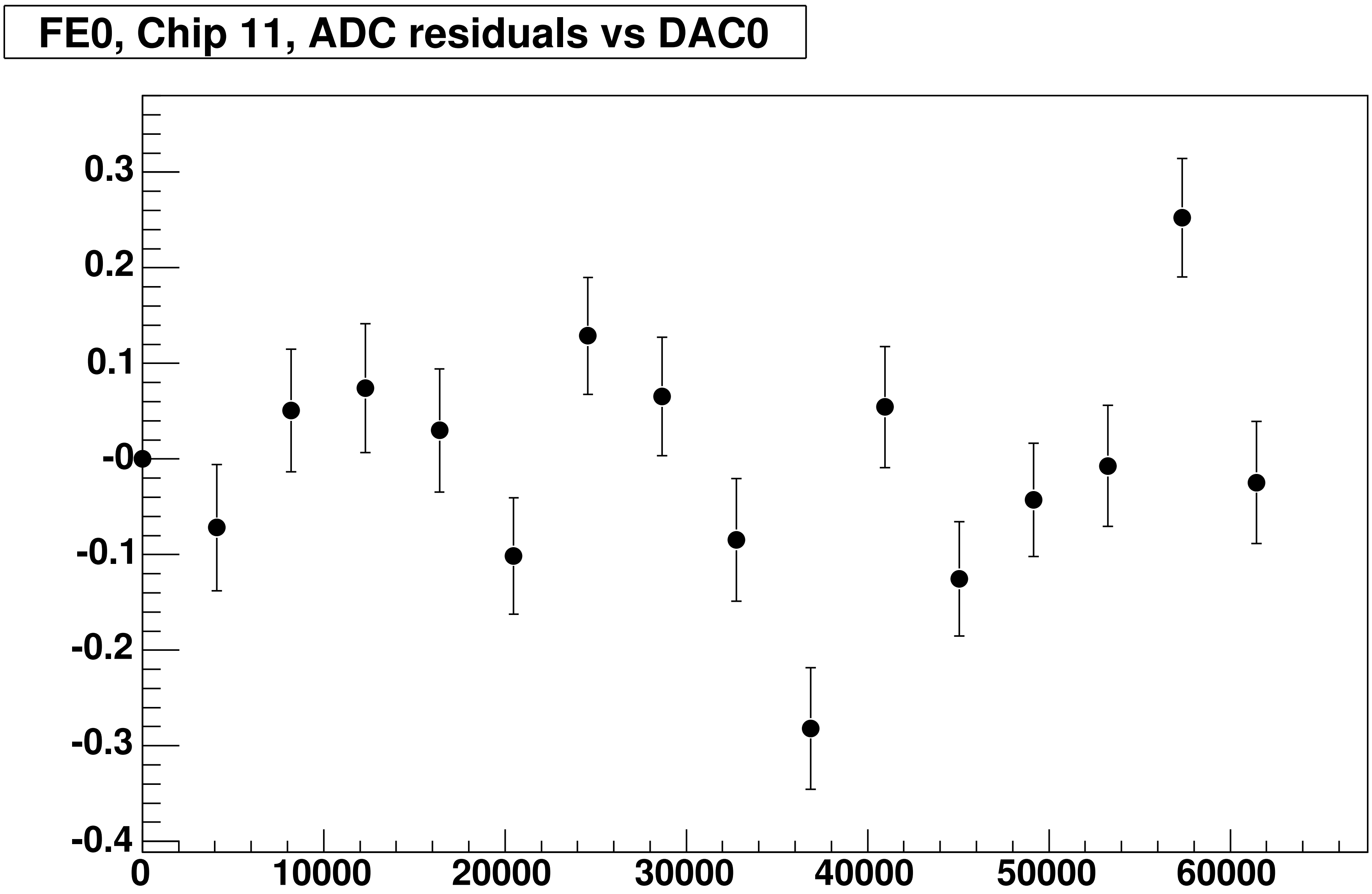
FE0, Chip 10, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

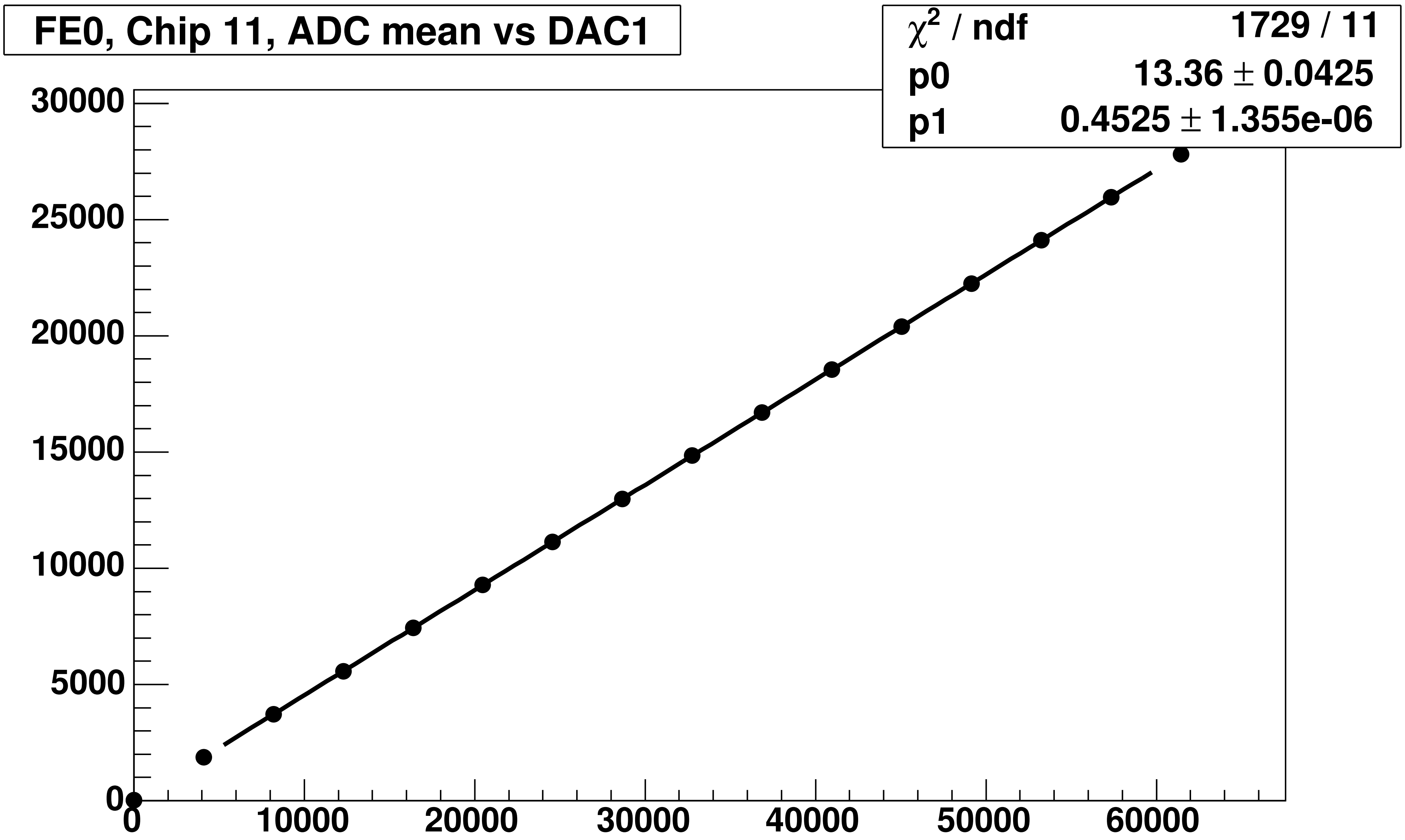

FE0, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



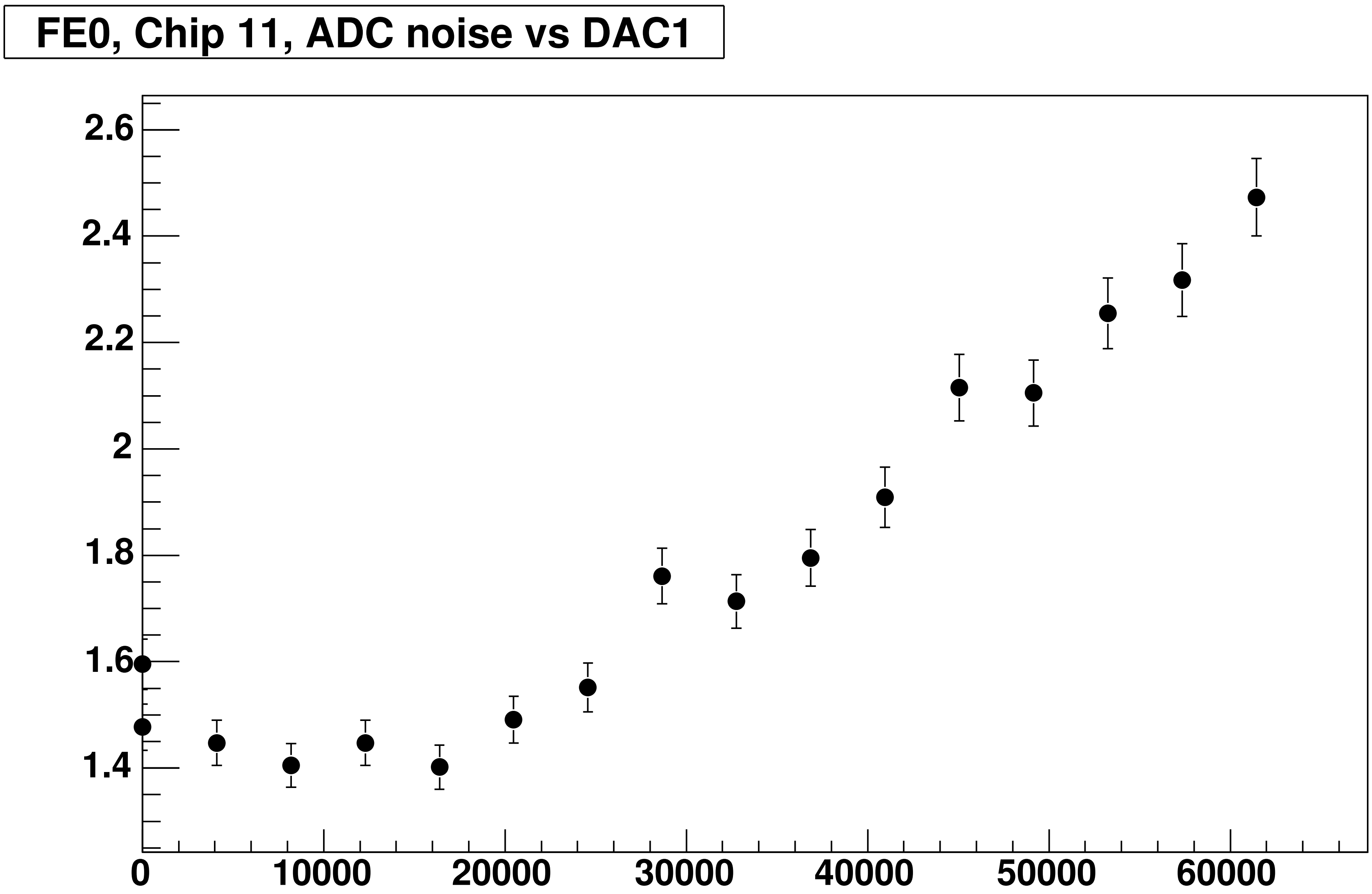
FE0, Chip 11, ADC mean vs DAC0
χ^2 / ndf 53.97 / 11
p0 14.18 ± 0.04176
p1 6.295e-07 ± 1.142e-06
14.5
14.4
14.3
14.2
14.1
14
13.9
13.8
0
10000
20000
30000
40000
50000
60000

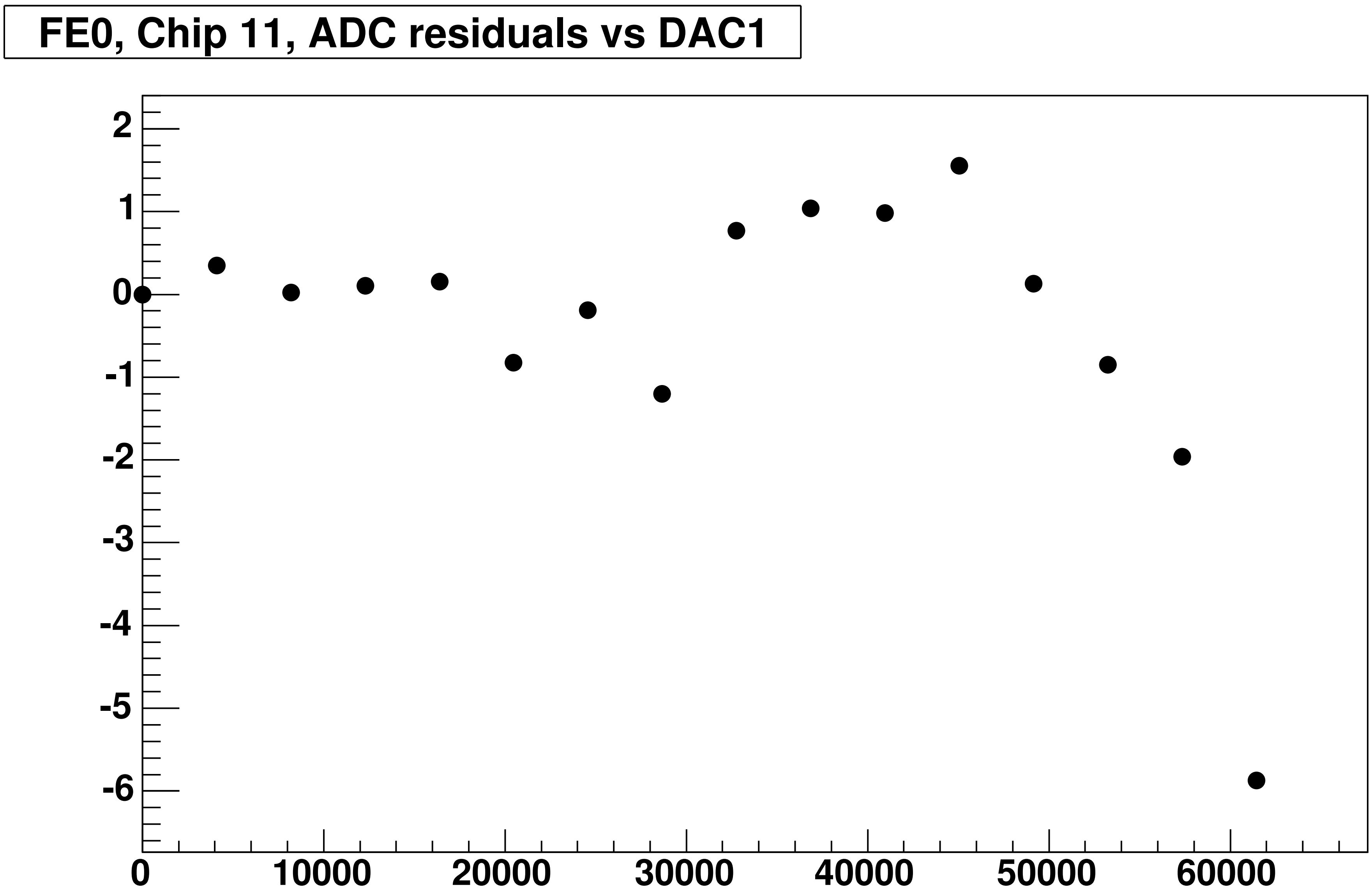

FE0, Chip 11, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

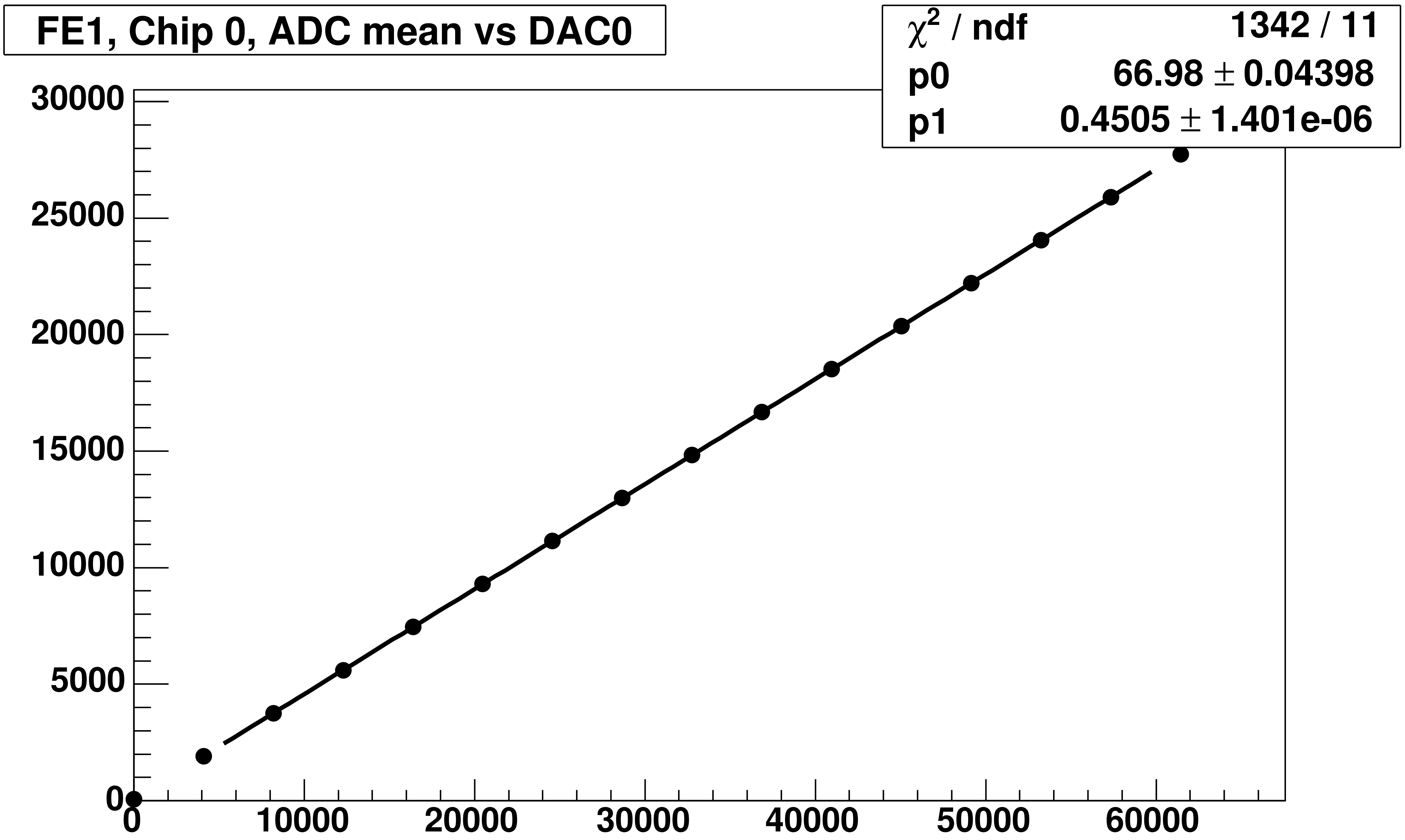

FE0, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

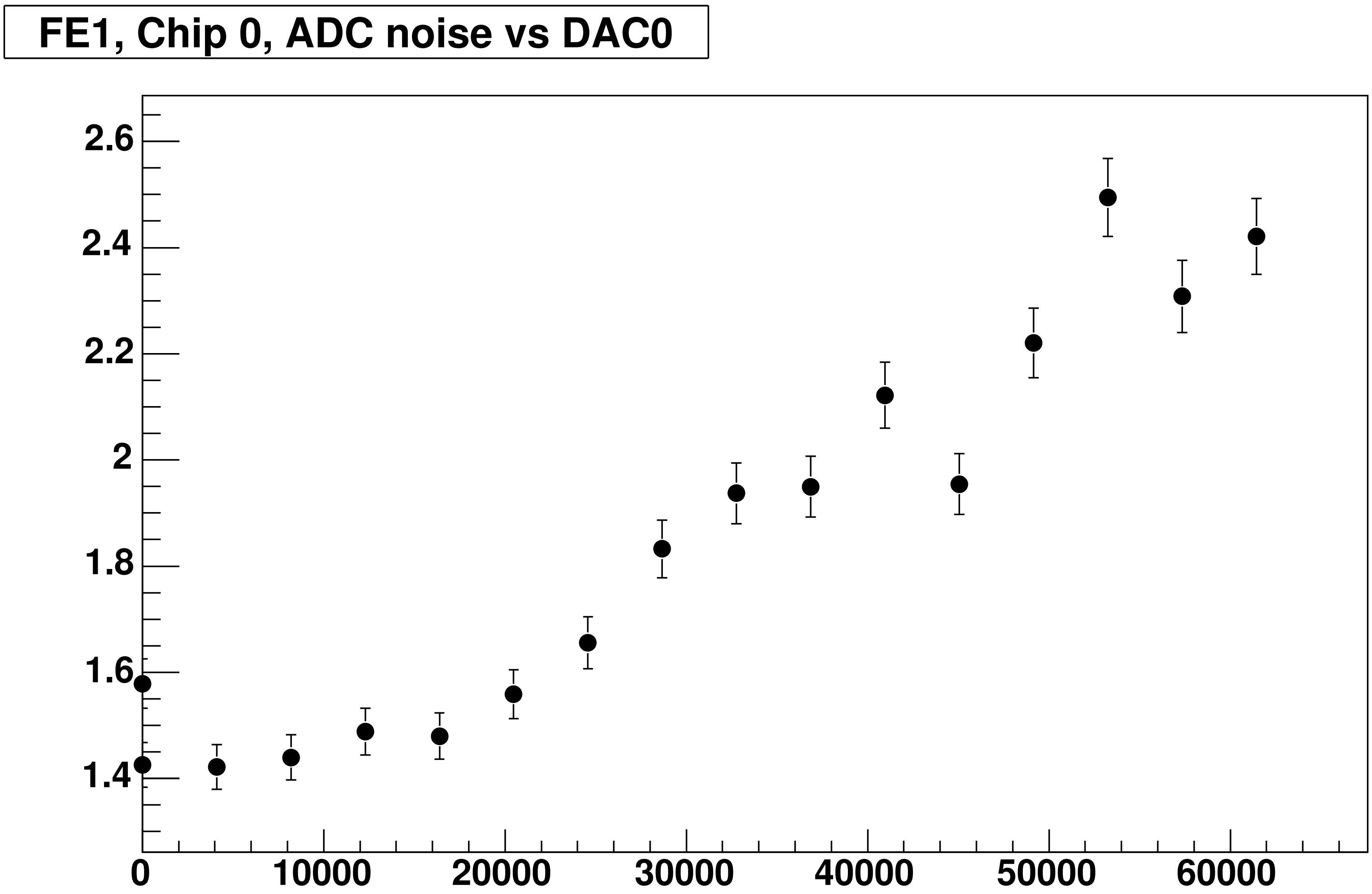


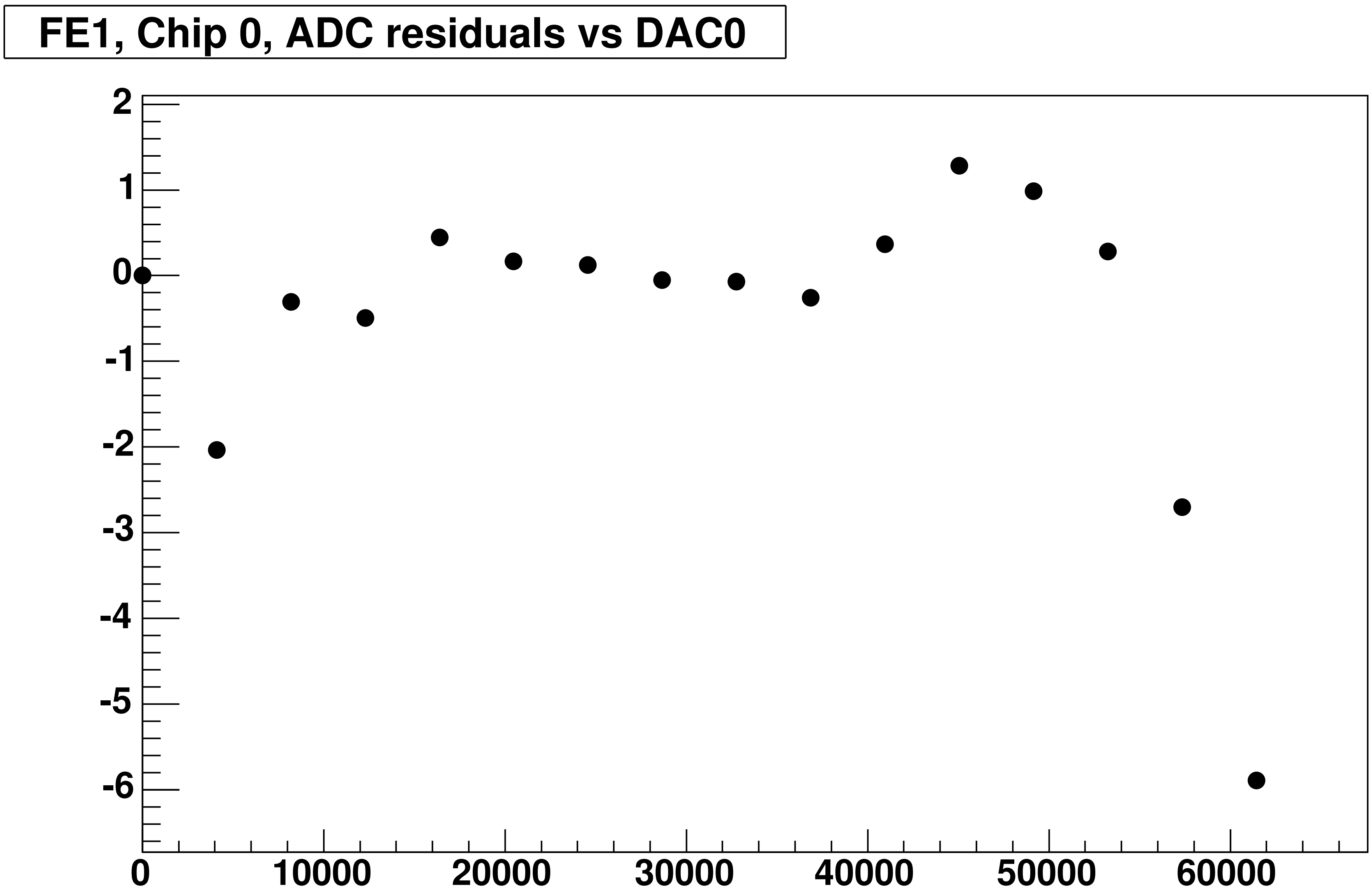
FE0, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1729 / 11
p0 13.36 ± 0.0425
p1 0.4525 ± 1.355e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

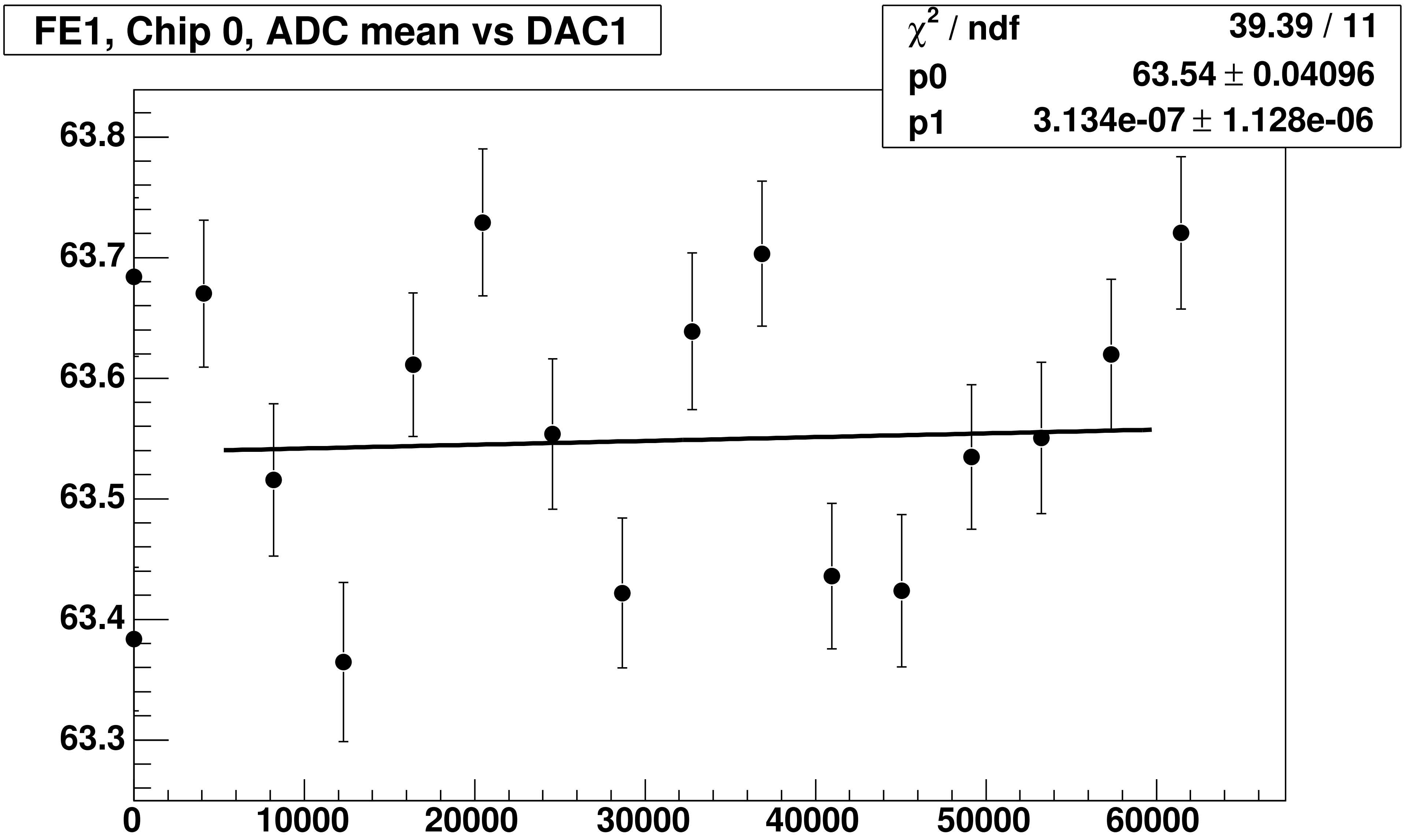

FE0, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE0, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

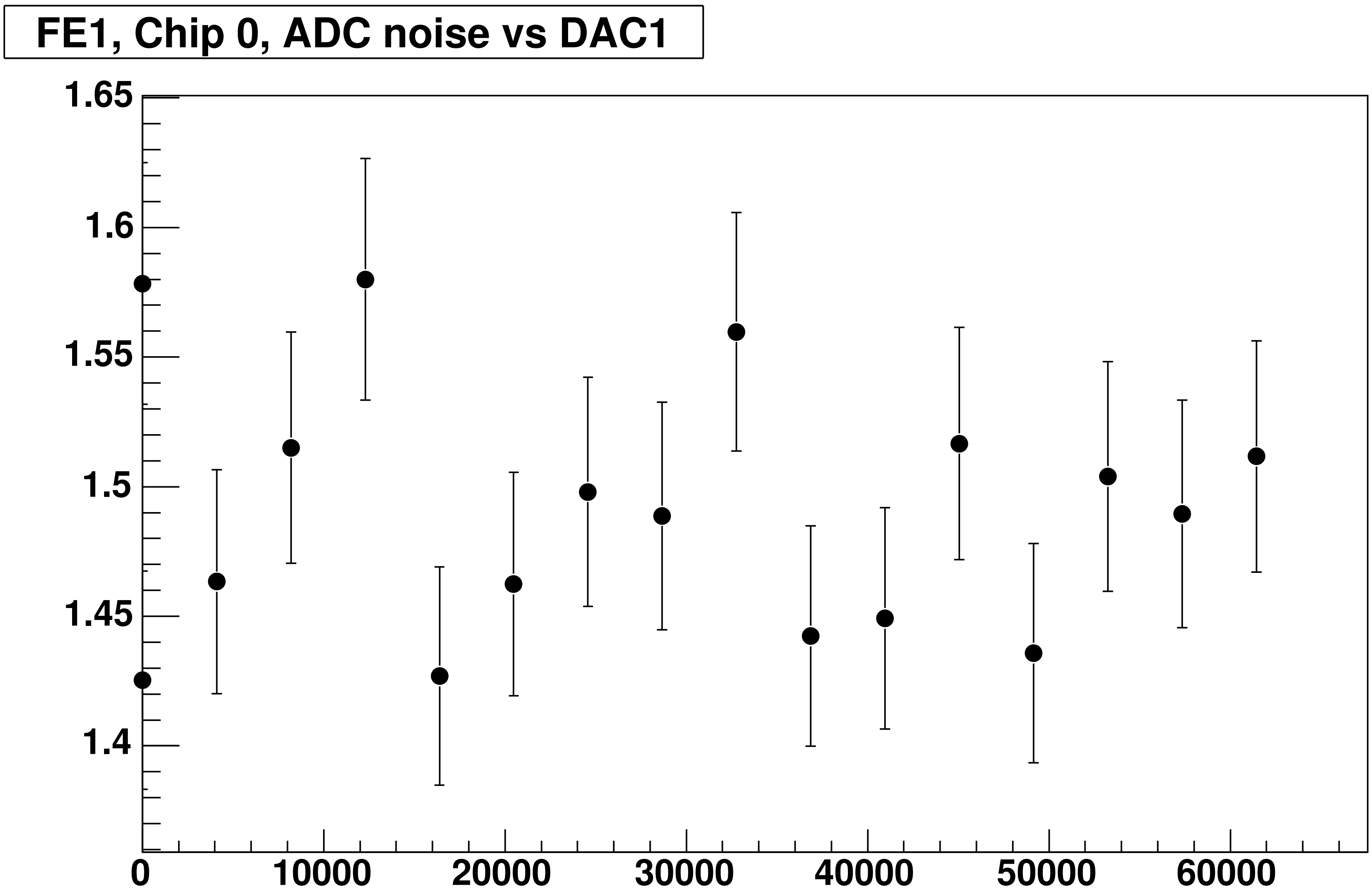

FE1, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1342 / 11
p0 66.98 ± 0.04398
p1 0.4505 ± 1.401e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

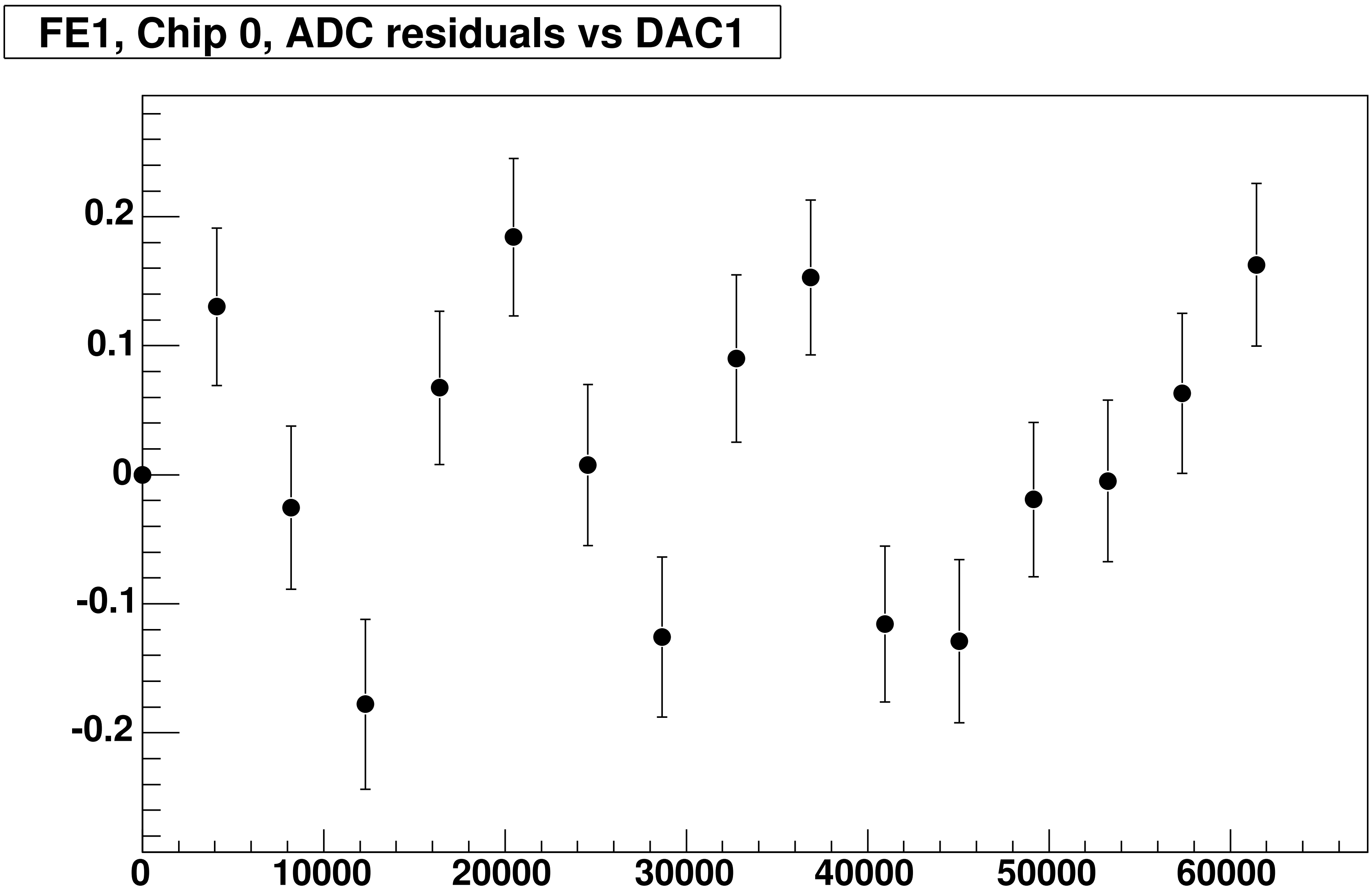

FE1, Chip 0, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

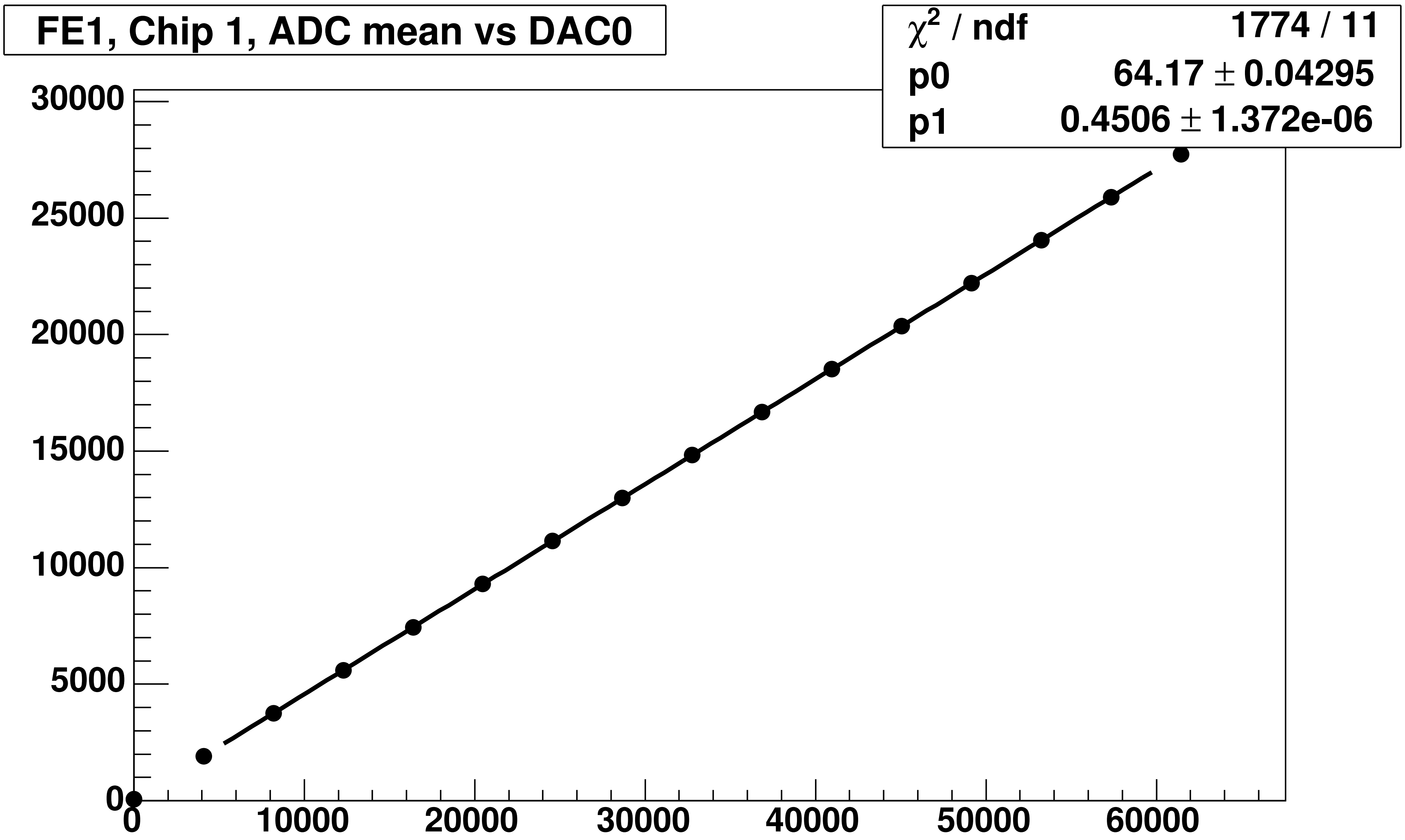

FE1, Chip 0, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

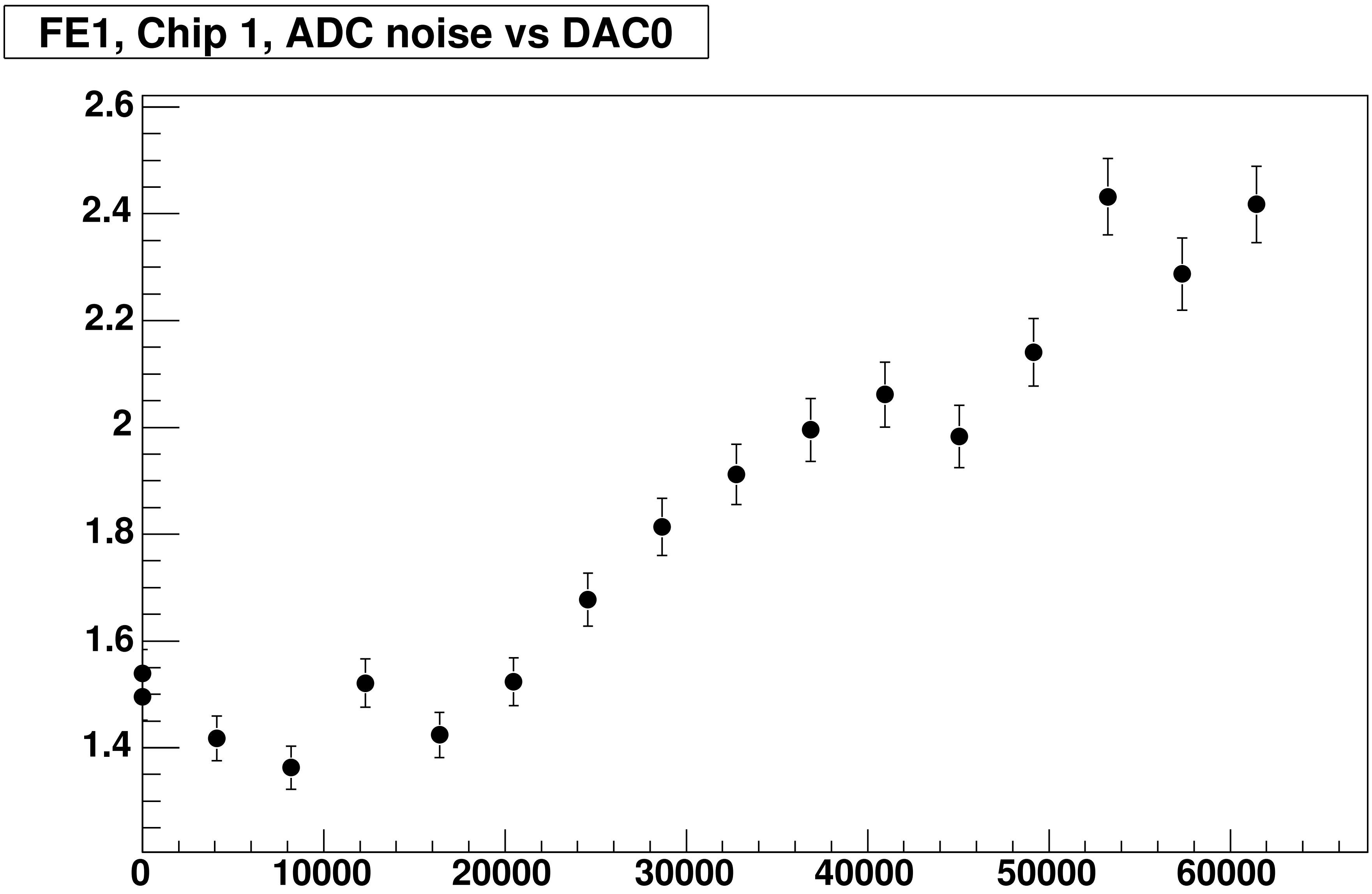


FE1, Chip 0, ADC mean vs DAC1
χ² / ndf 39.39 / 11
p0 63.54 ± 0.04096
p1 3.134e-07 ± 1.128e-06
63.8
63.7
63.6
63.5
63.4
63.3
0
10000
20000
30000
40000
50000
60000


FE1, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

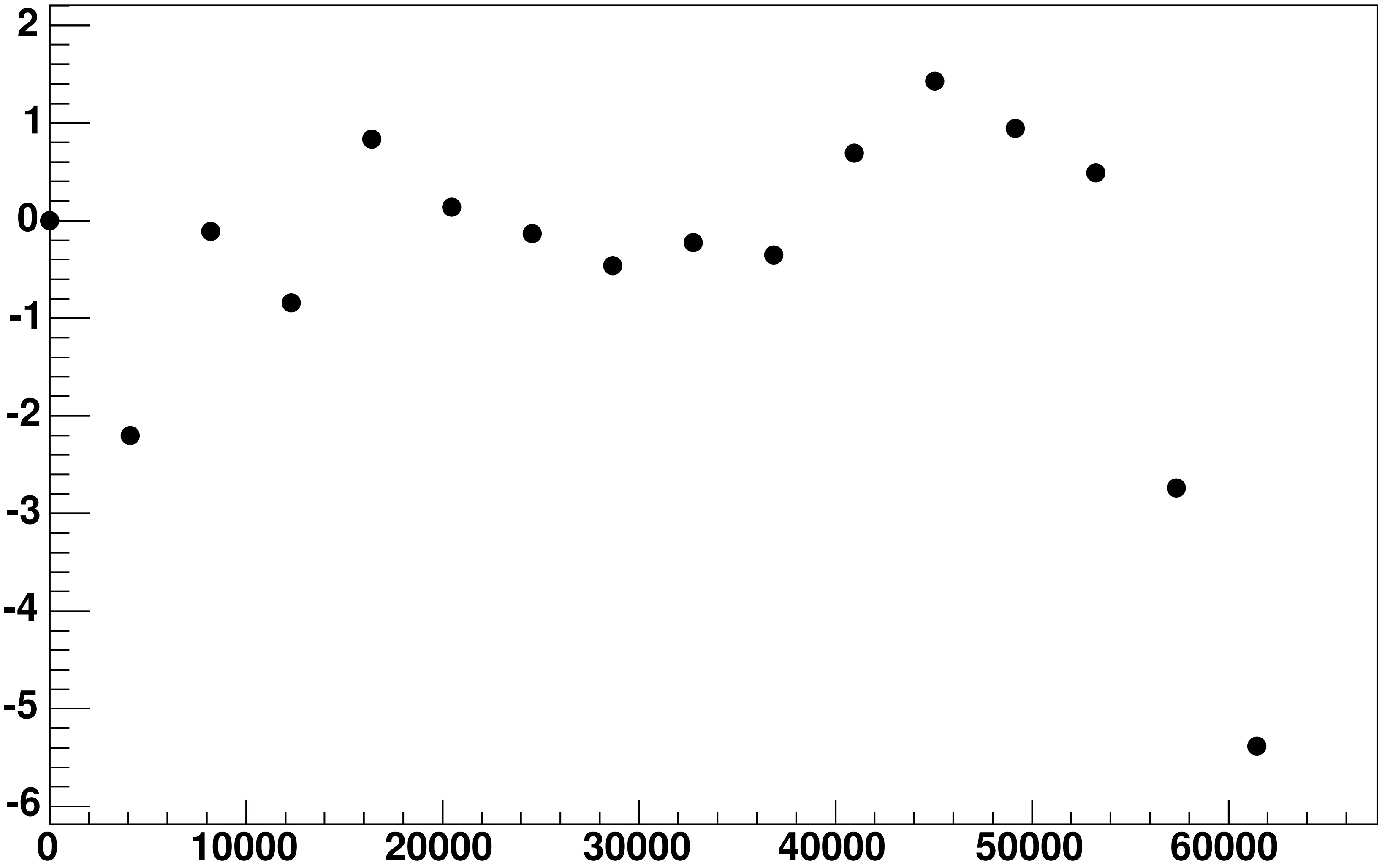

FE1, Chip 0, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

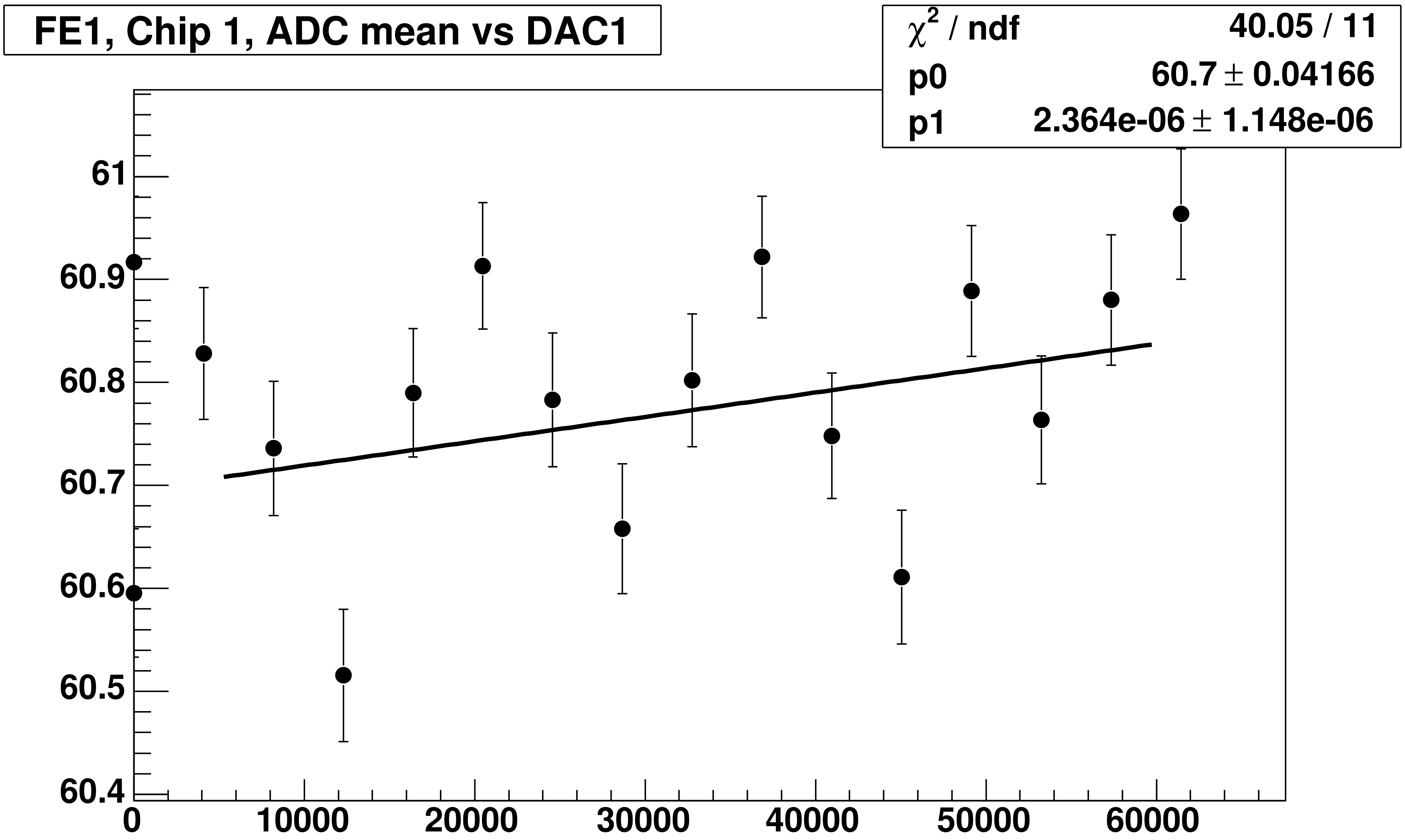

FE1, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1774 / 11
p0 64.17 ± 0.04295
p1 0.4506 ± 1.372e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000



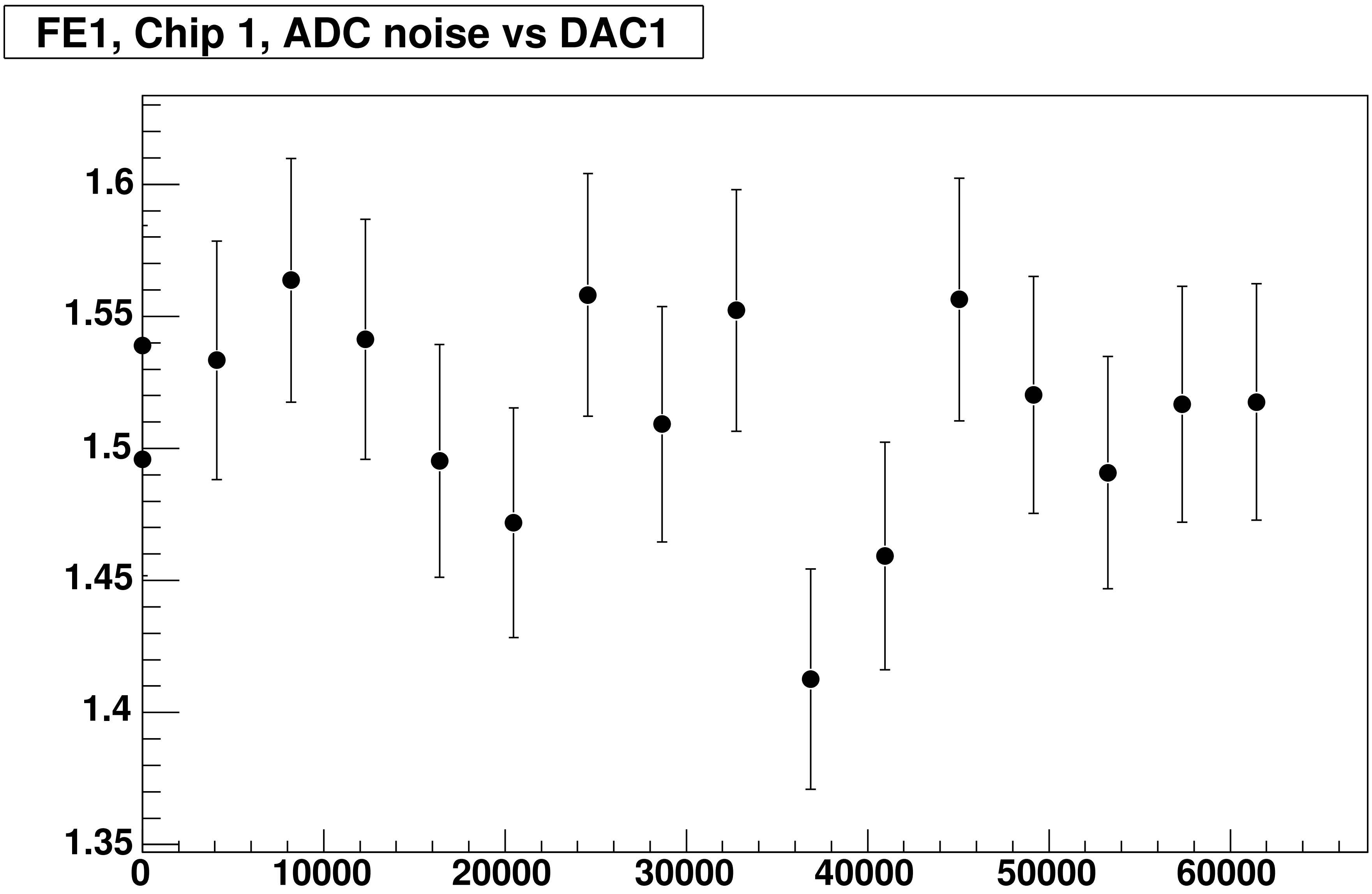
FE1, Chip 1, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

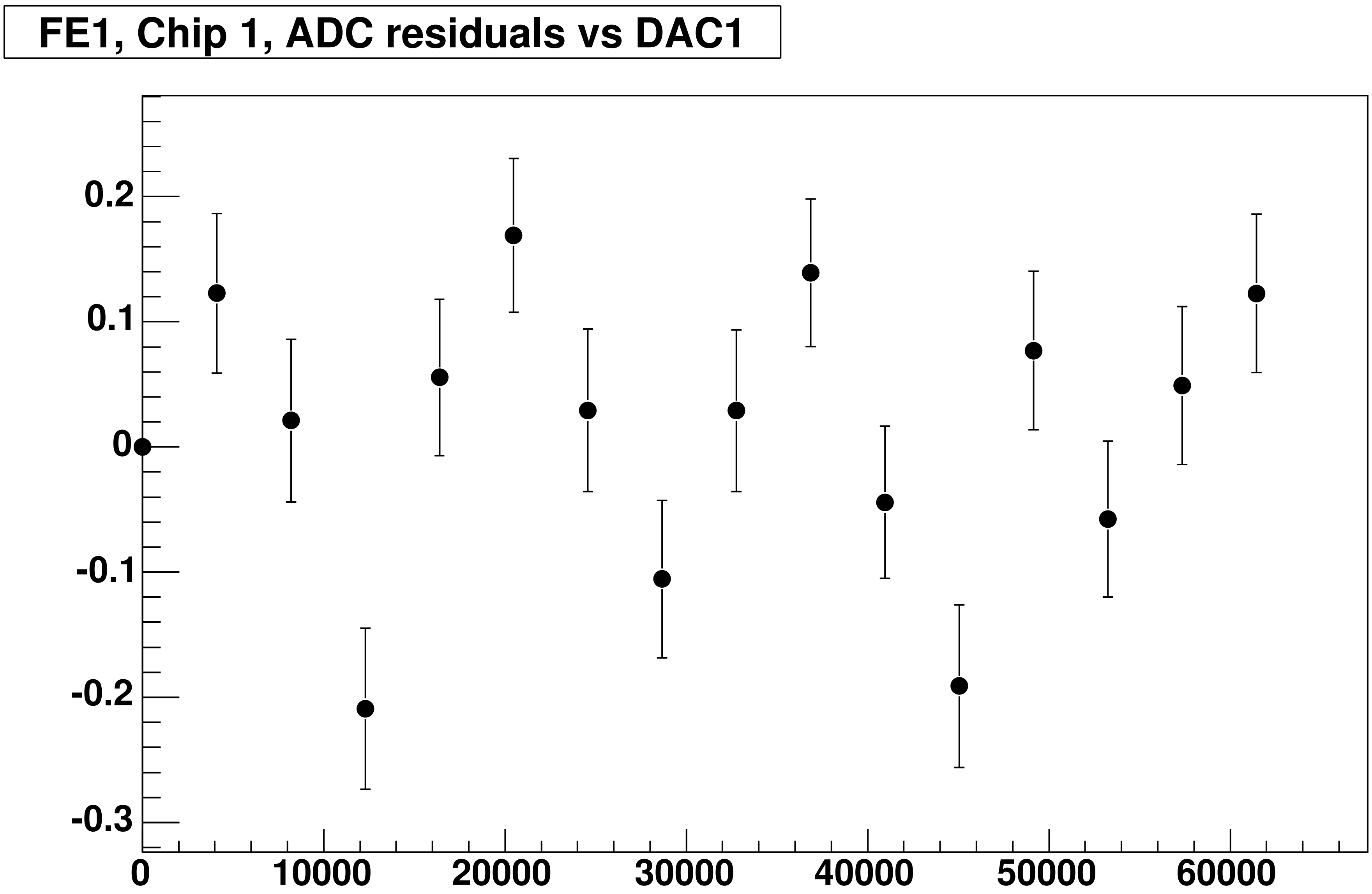
FE1, Chip 1, ADC residuals vs DAC0

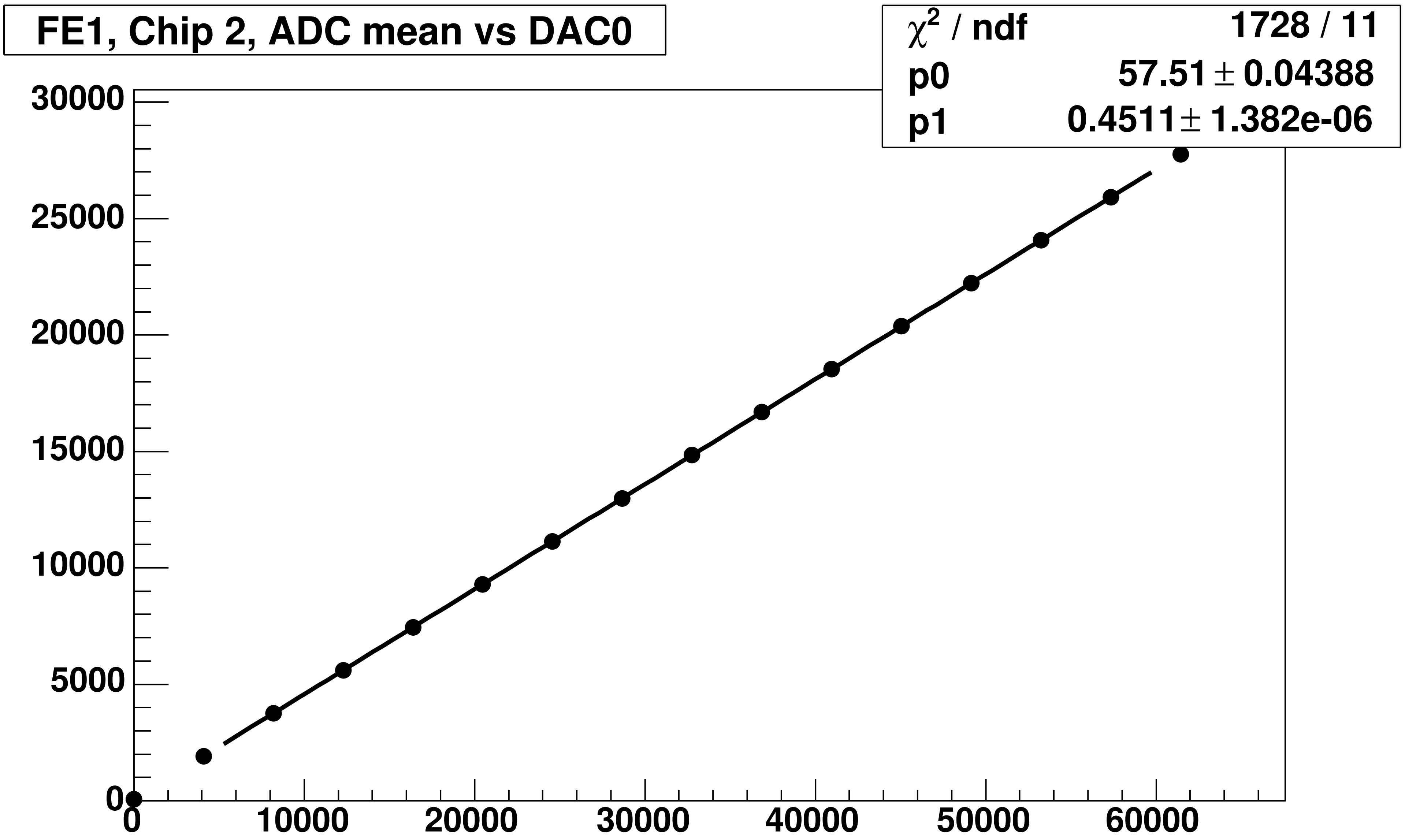




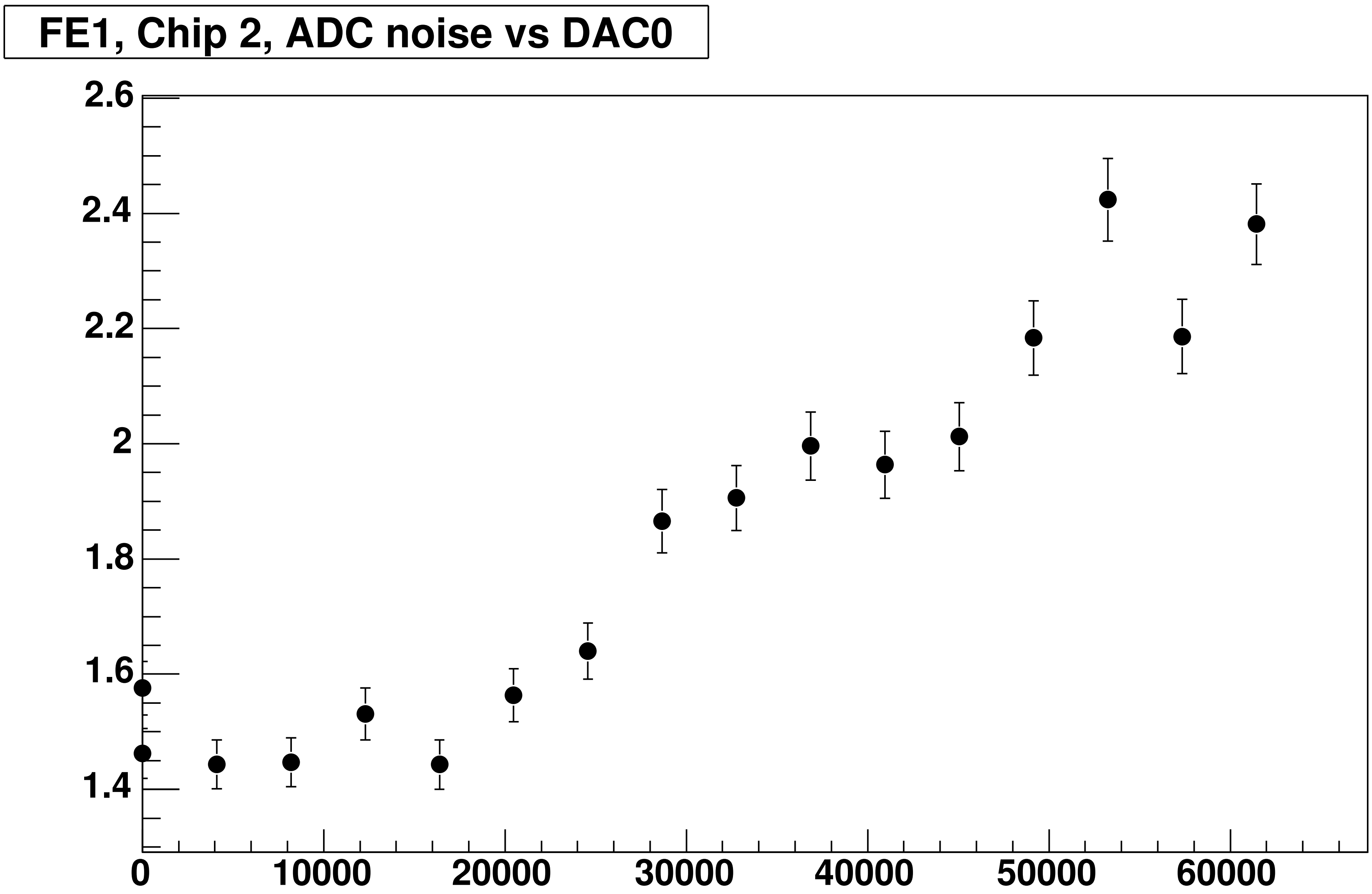
FE1, Chip 1, ADC mean vs DAC1
χ^2 / ndf 40.05 / 11
p0 60.7 ± 0.04166
p1 2.364e-06 ± 1.148e-06
61
60.9
60.8
60.7
60.6
60.5
60.4
0
10000
20000
30000
40000
50000
60000

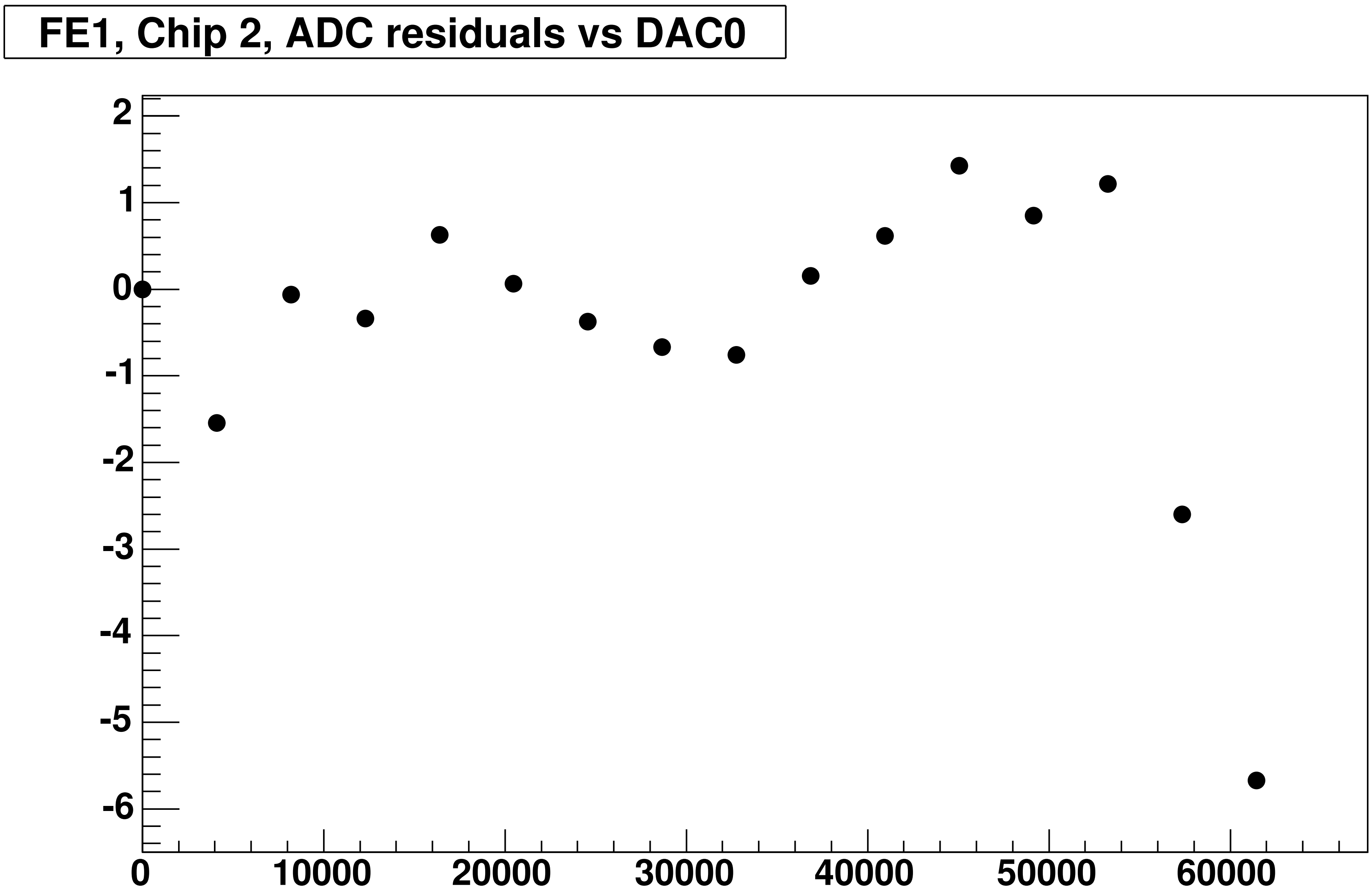

FE1, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

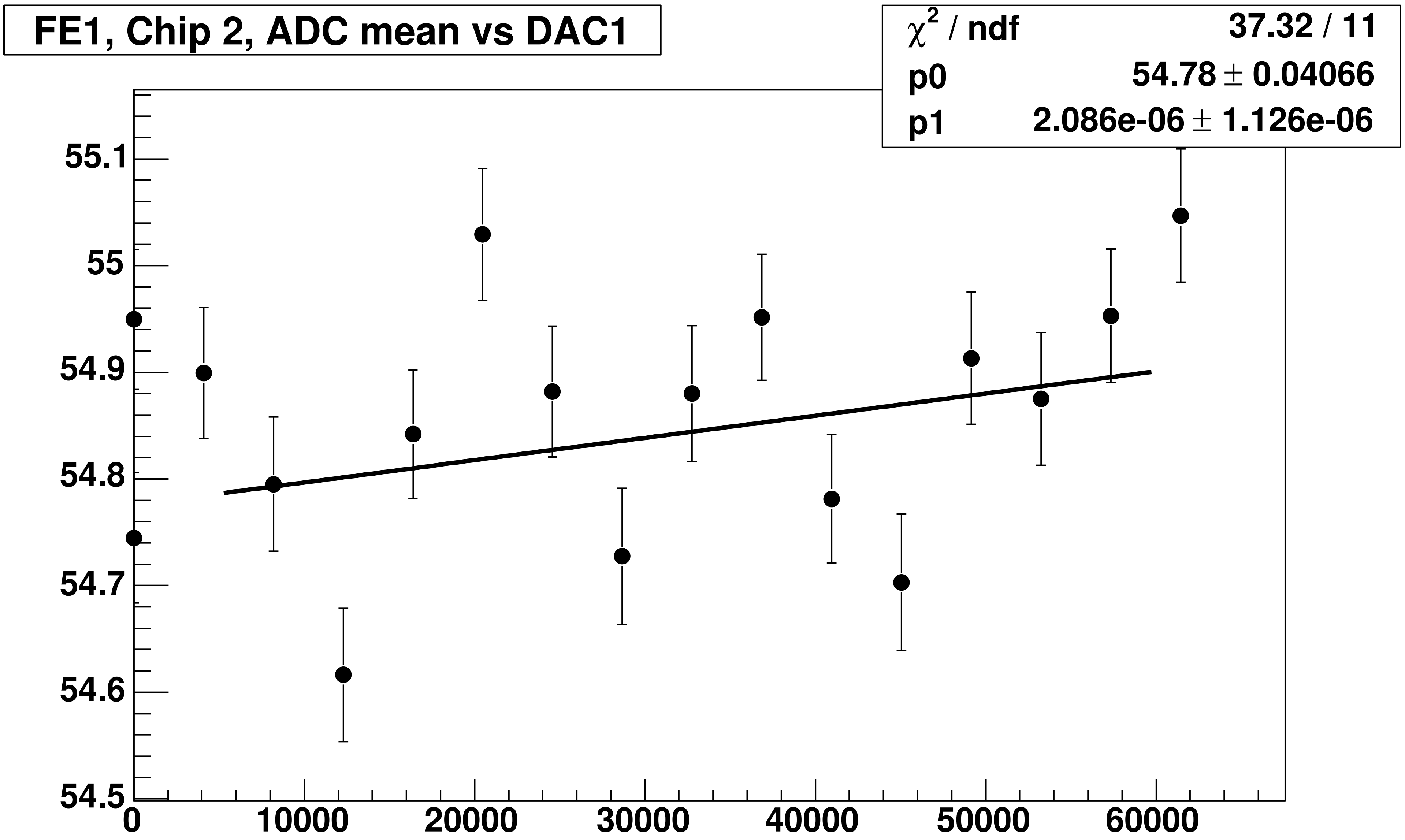

FE1, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

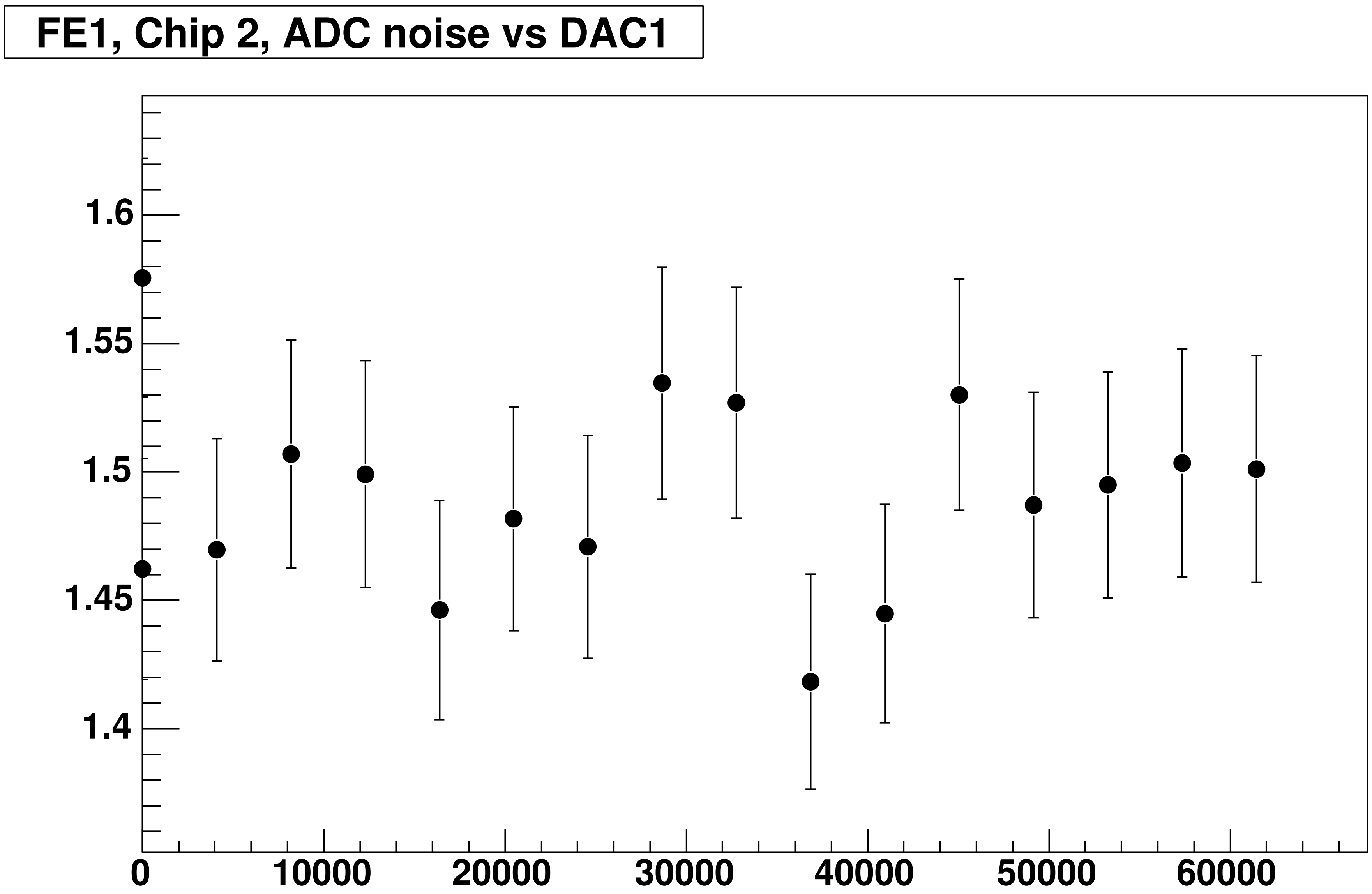


FE1, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1728 / 11
p0 57.51 ± 0.04388
p1 0.4511 ± 1.382e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

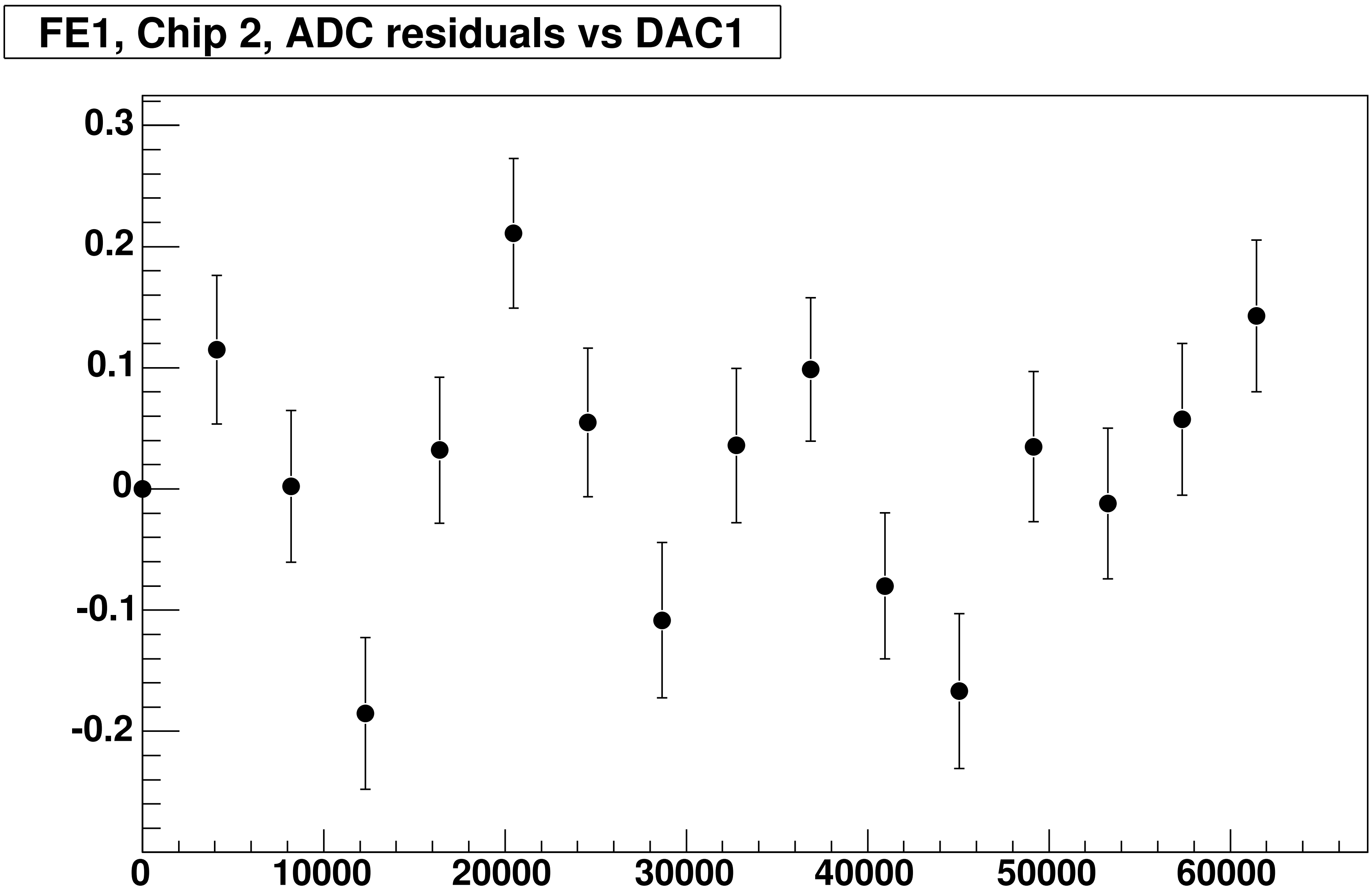

FE1, Chip 2, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

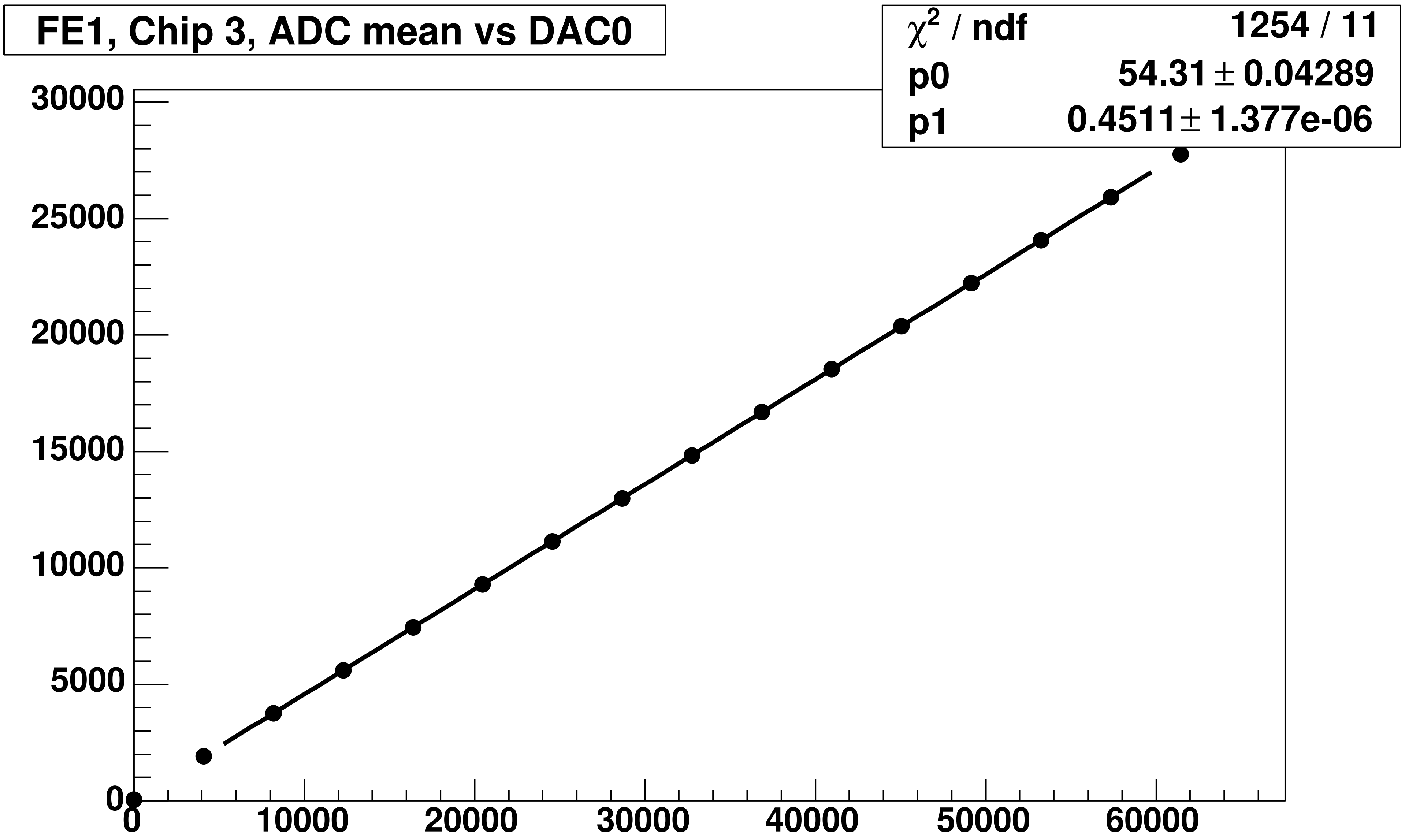

FE1, Chip 2, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

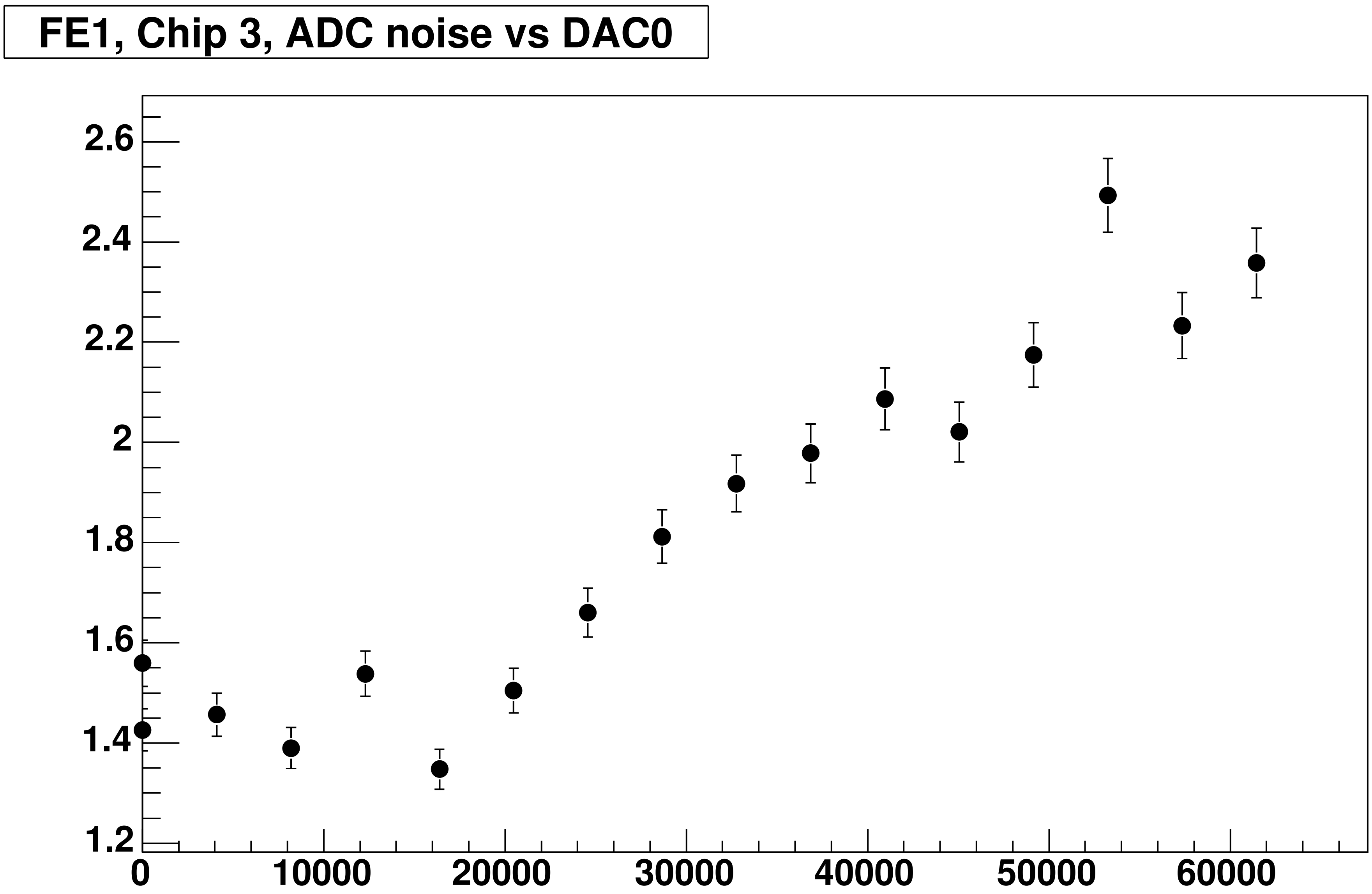

FE1, Chip 2, ADC mean vs DAC1
χ^2 / ndf 37.32 / 11
p0 54.78 ± 0.04066
p1 2.086e-06 ± 1.126e-06
55.1
55
54.9
54.8
54.7
54.6
54.5
0
10000
20000
30000
40000
50000
60000

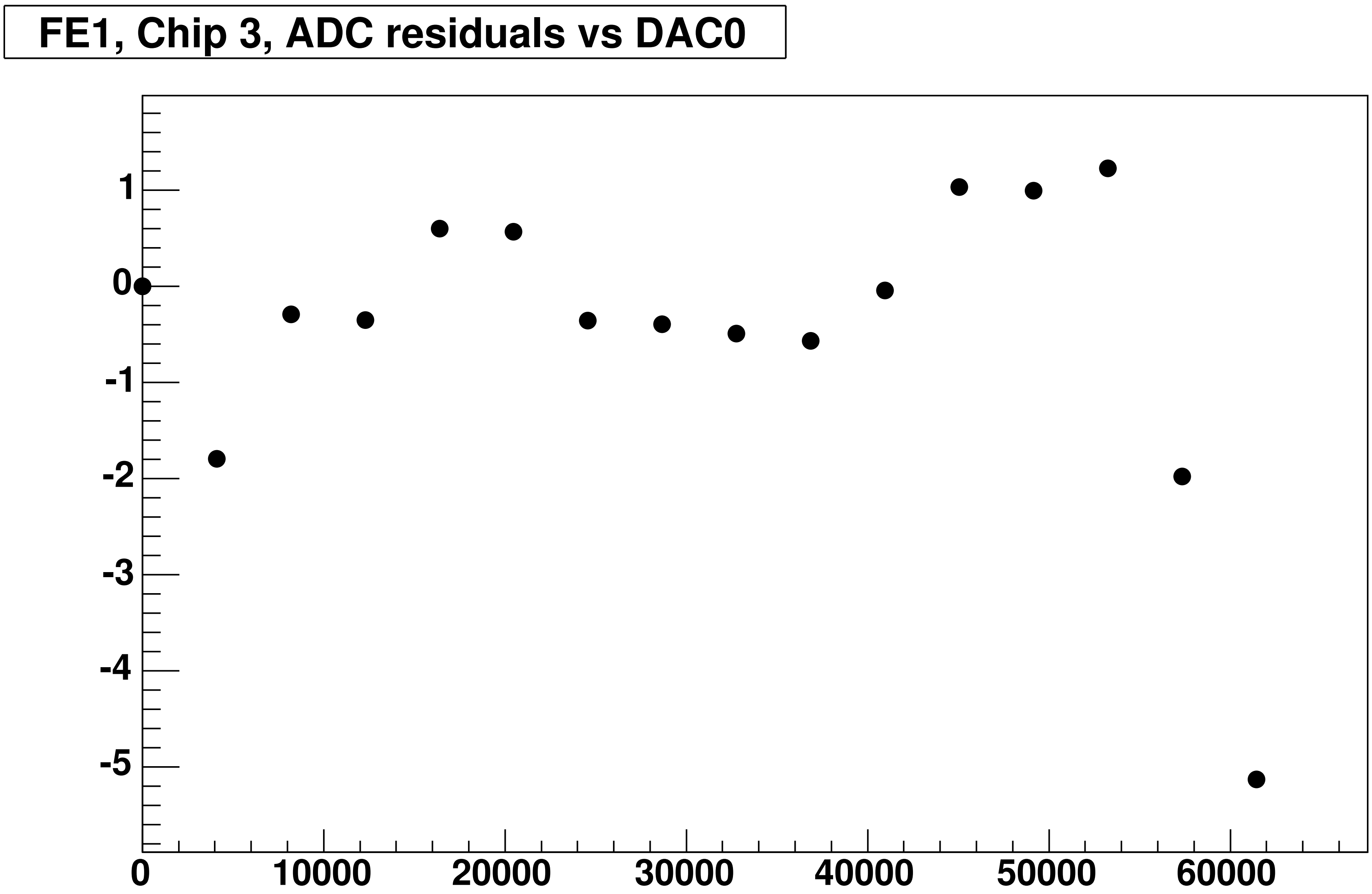


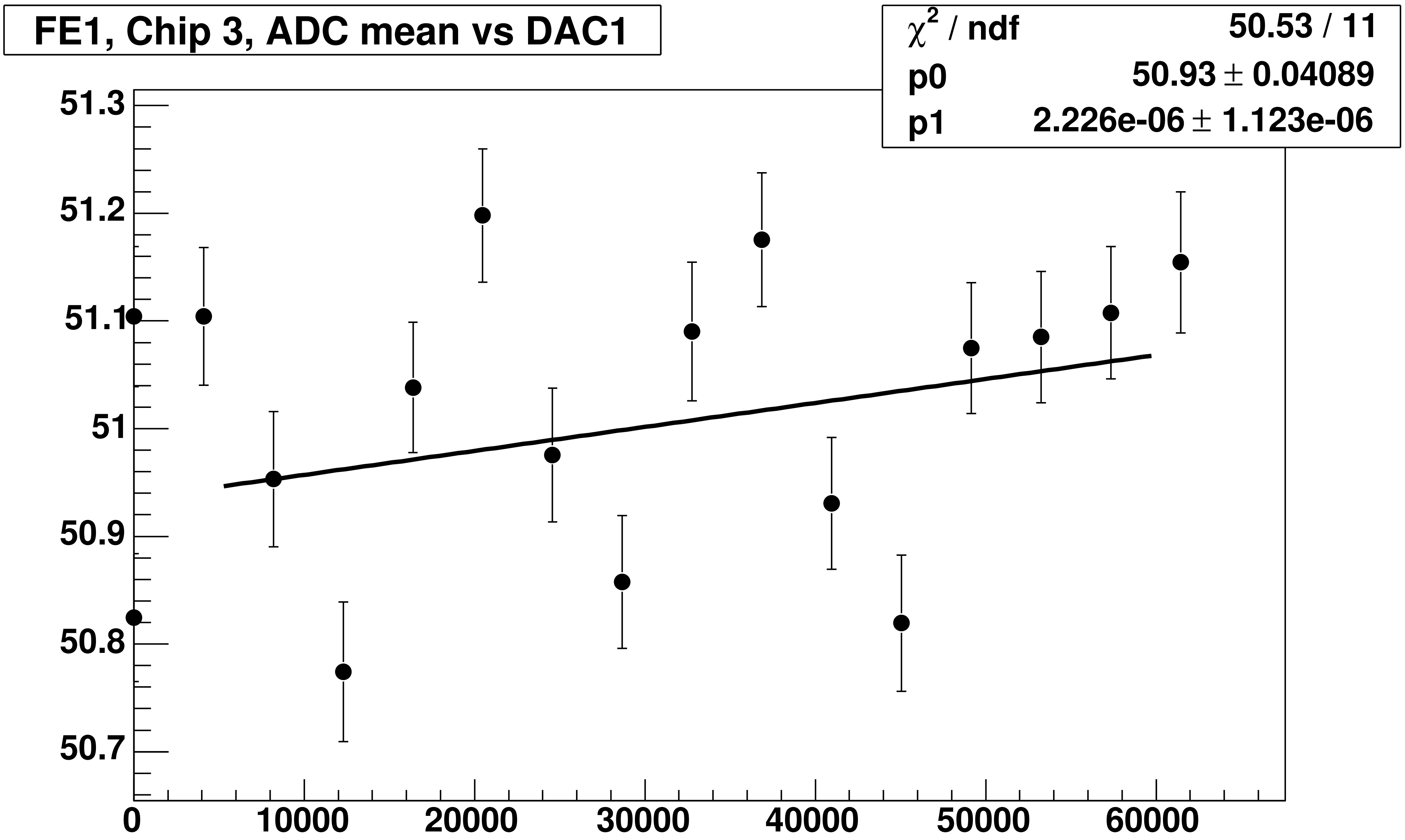
FE1, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

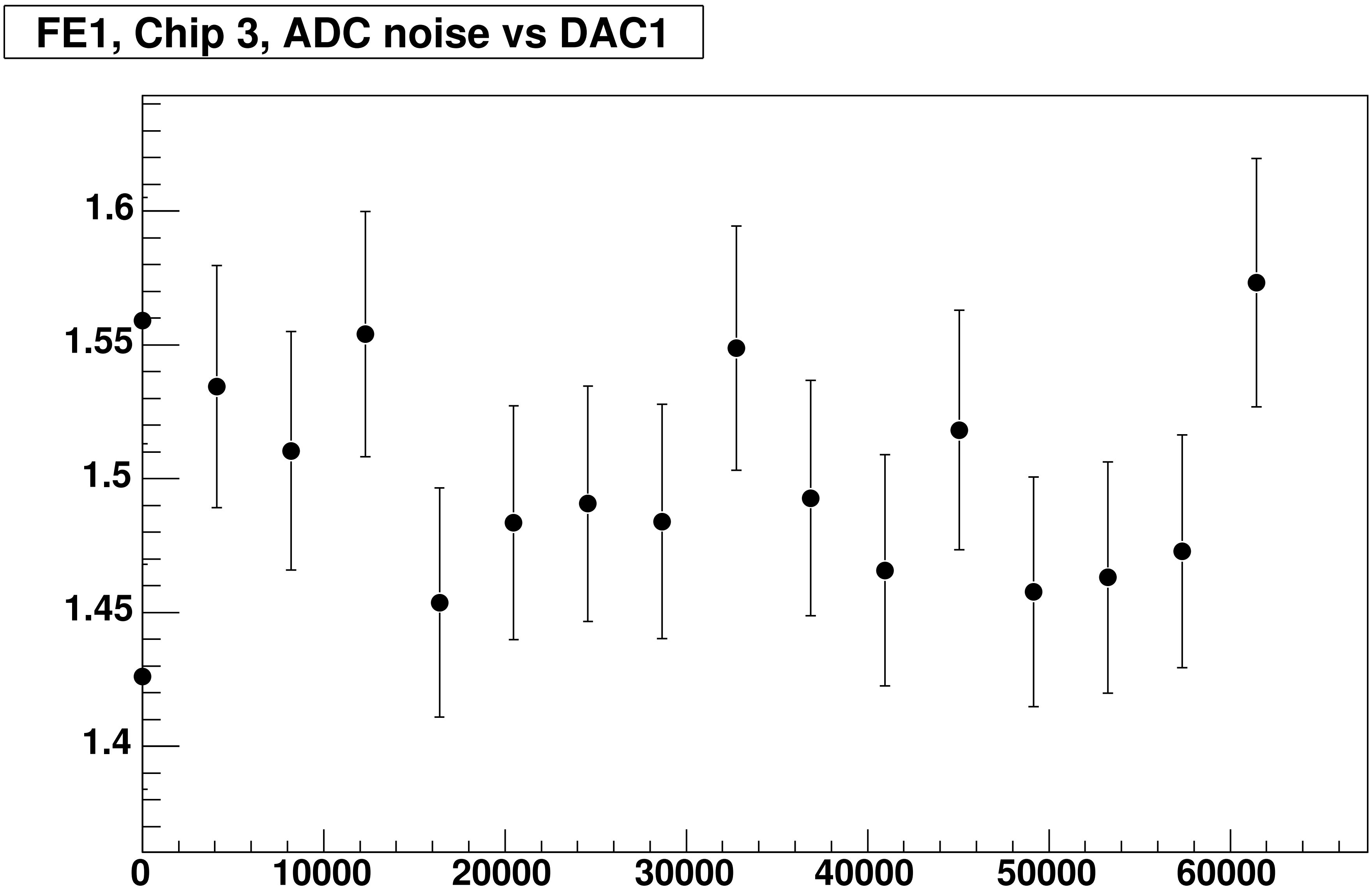

FE1, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

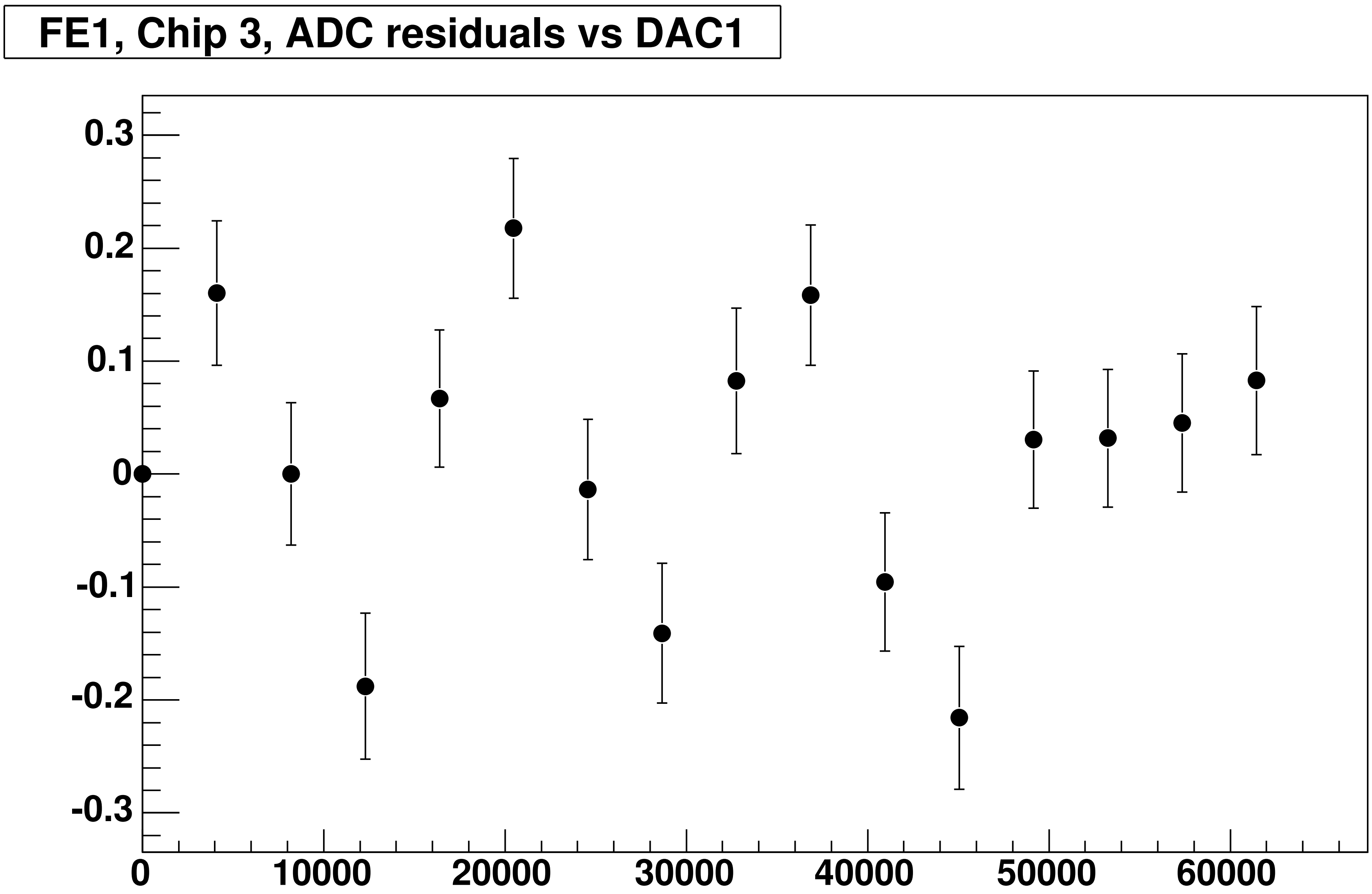

FE1, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1254 / 11
p0 54.31 ± 0.04289
p1 0.4511 ± 1.377e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE1, Chip 3, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

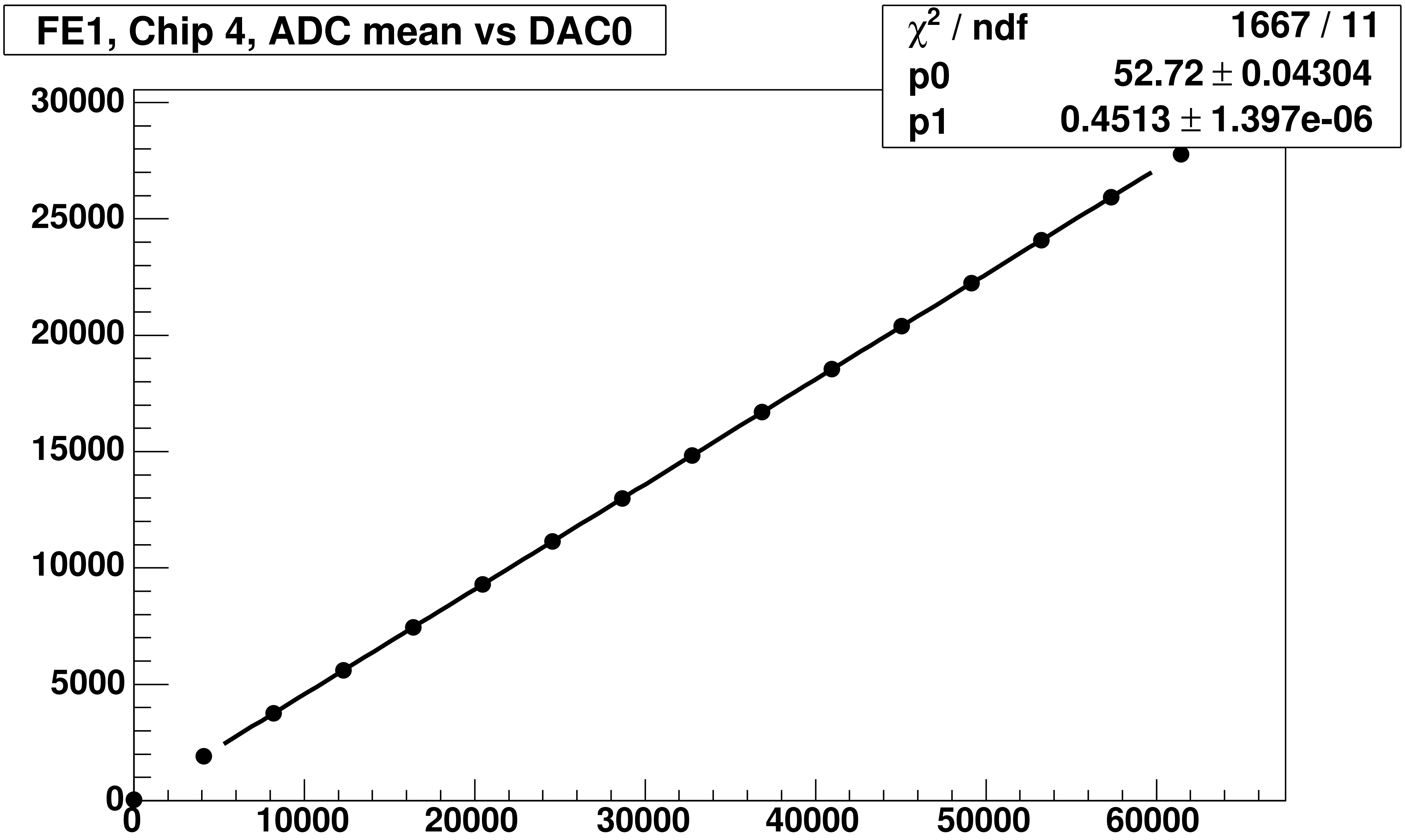

FE1, Chip 3, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

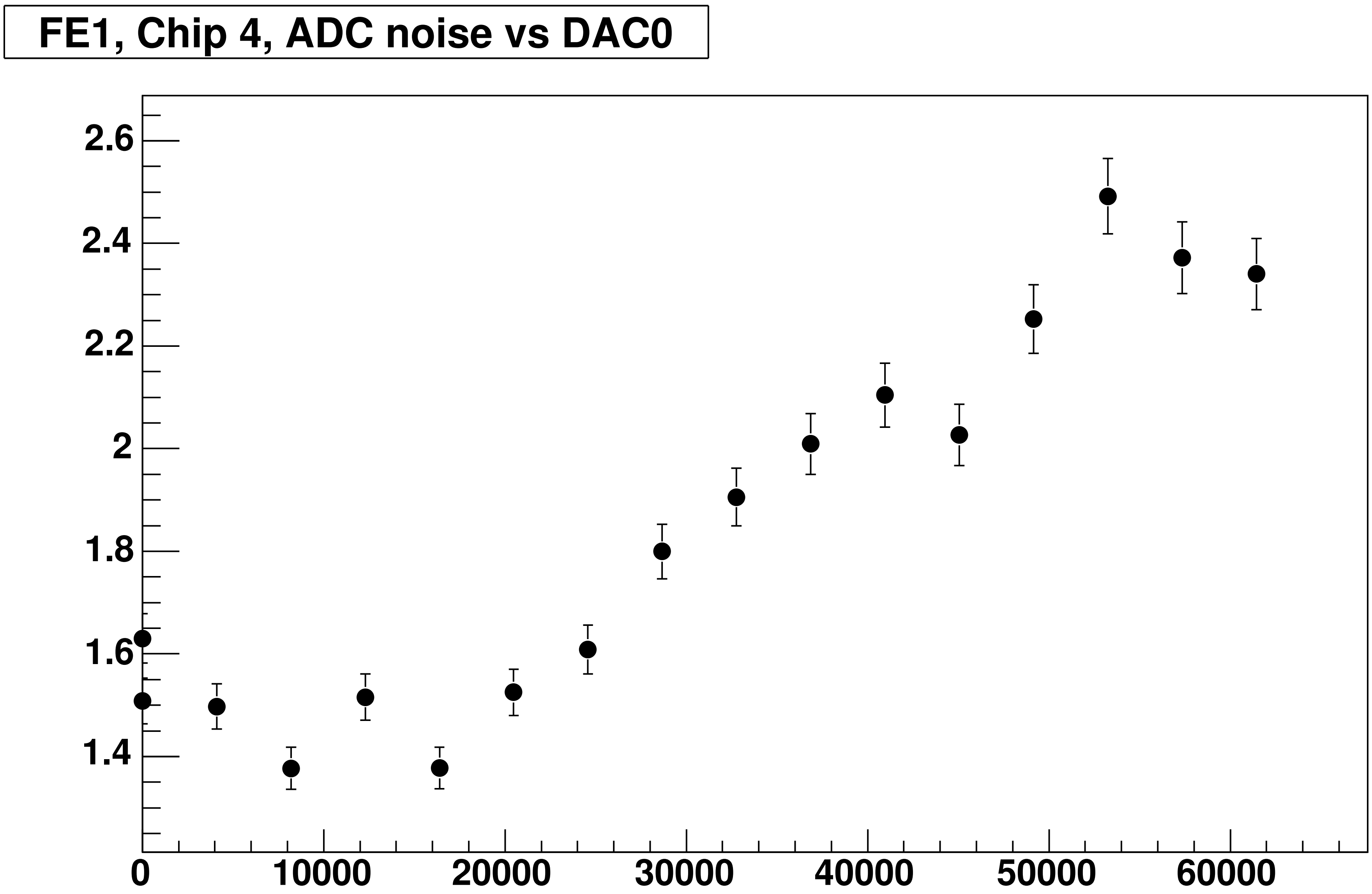

FE1, Chip 3, ADC mean vs DAC1
χ^2 / ndf 50.53 / 11
p0 50.93 ± 0.04089
p1 2.226e-06 ± 1.123e-06
51.3
51.2
51.1
51
50.9
50.8
50.7
0
10000
20000
30000
40000
50000
60000

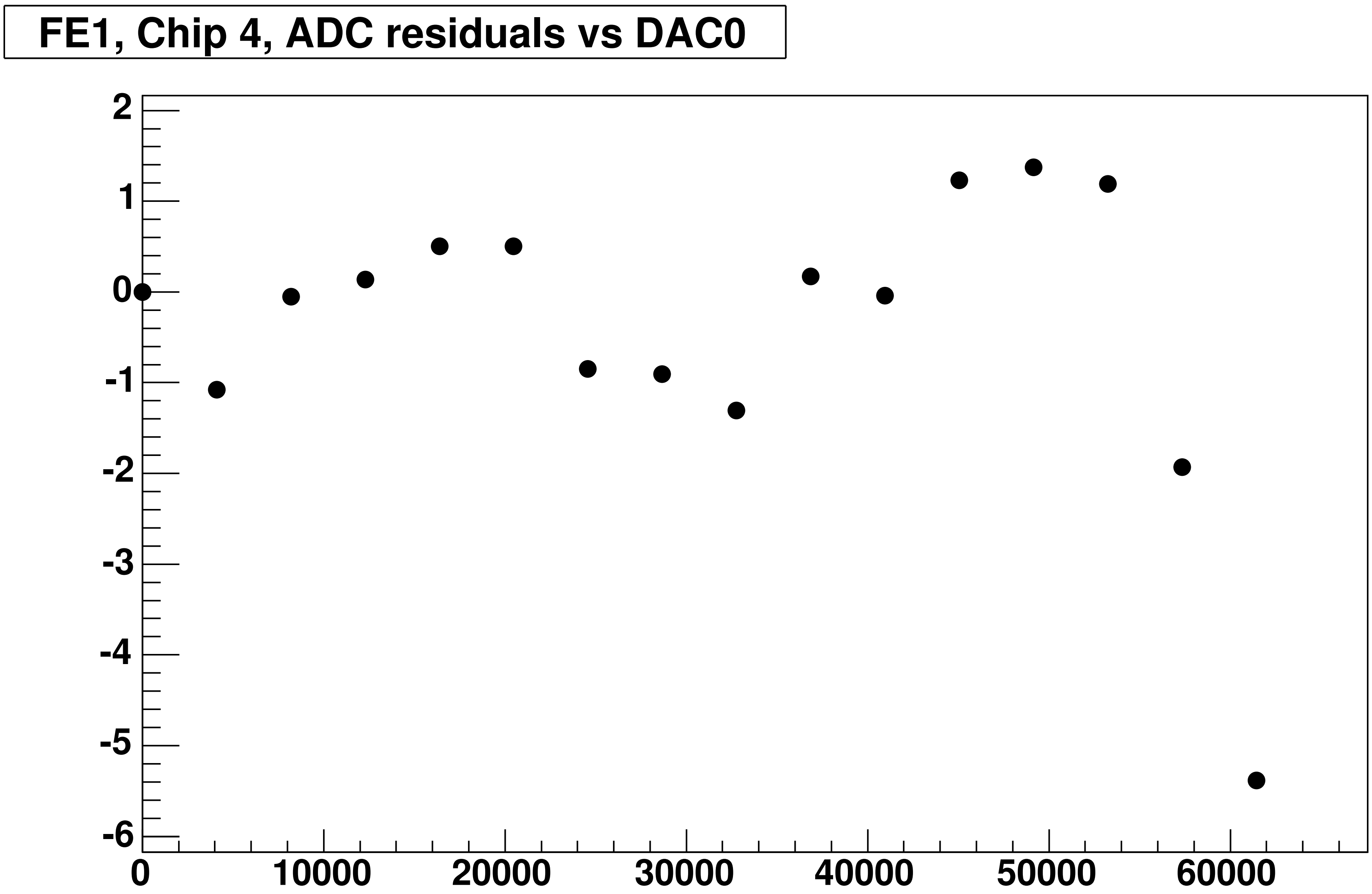

FE1, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

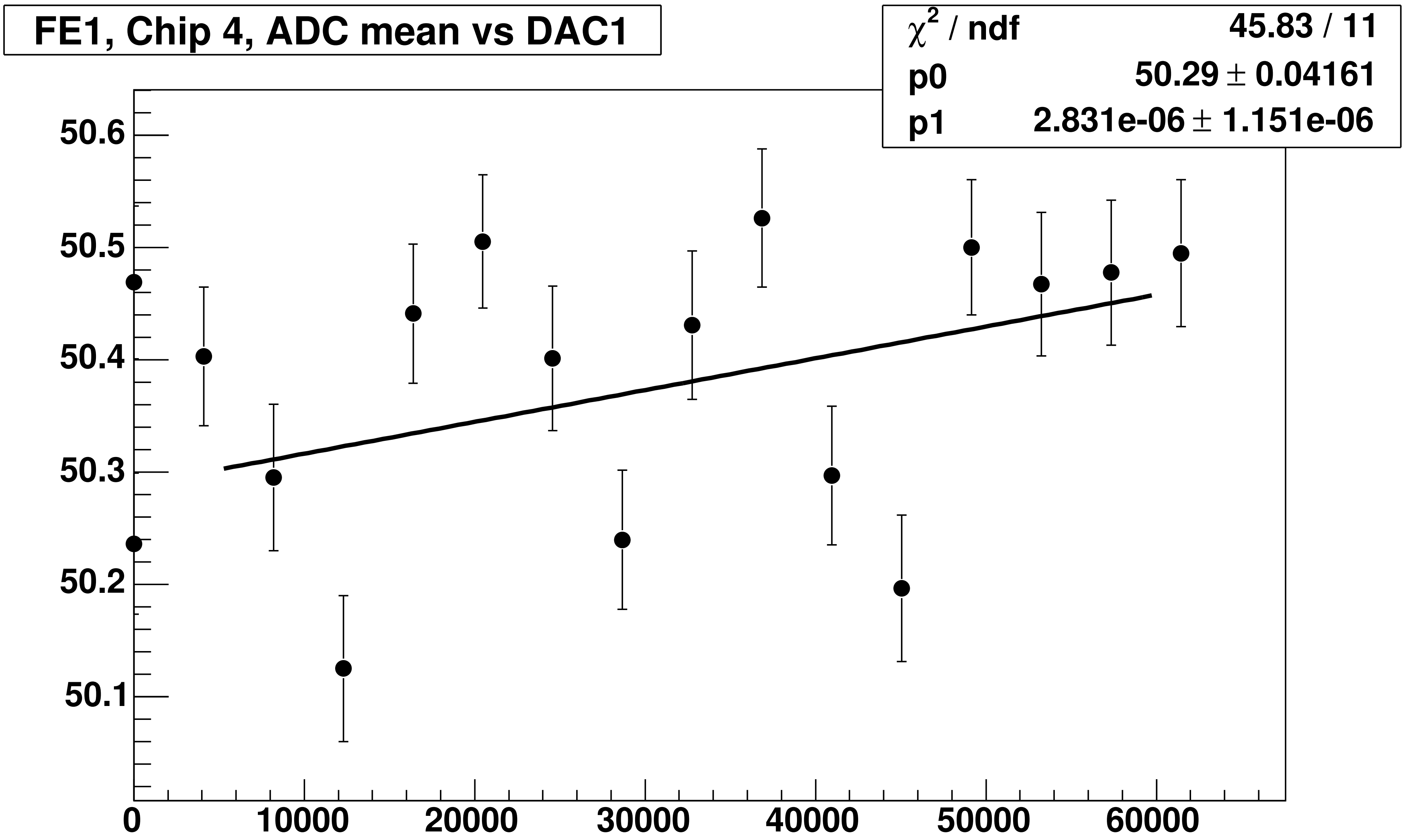


FE1, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

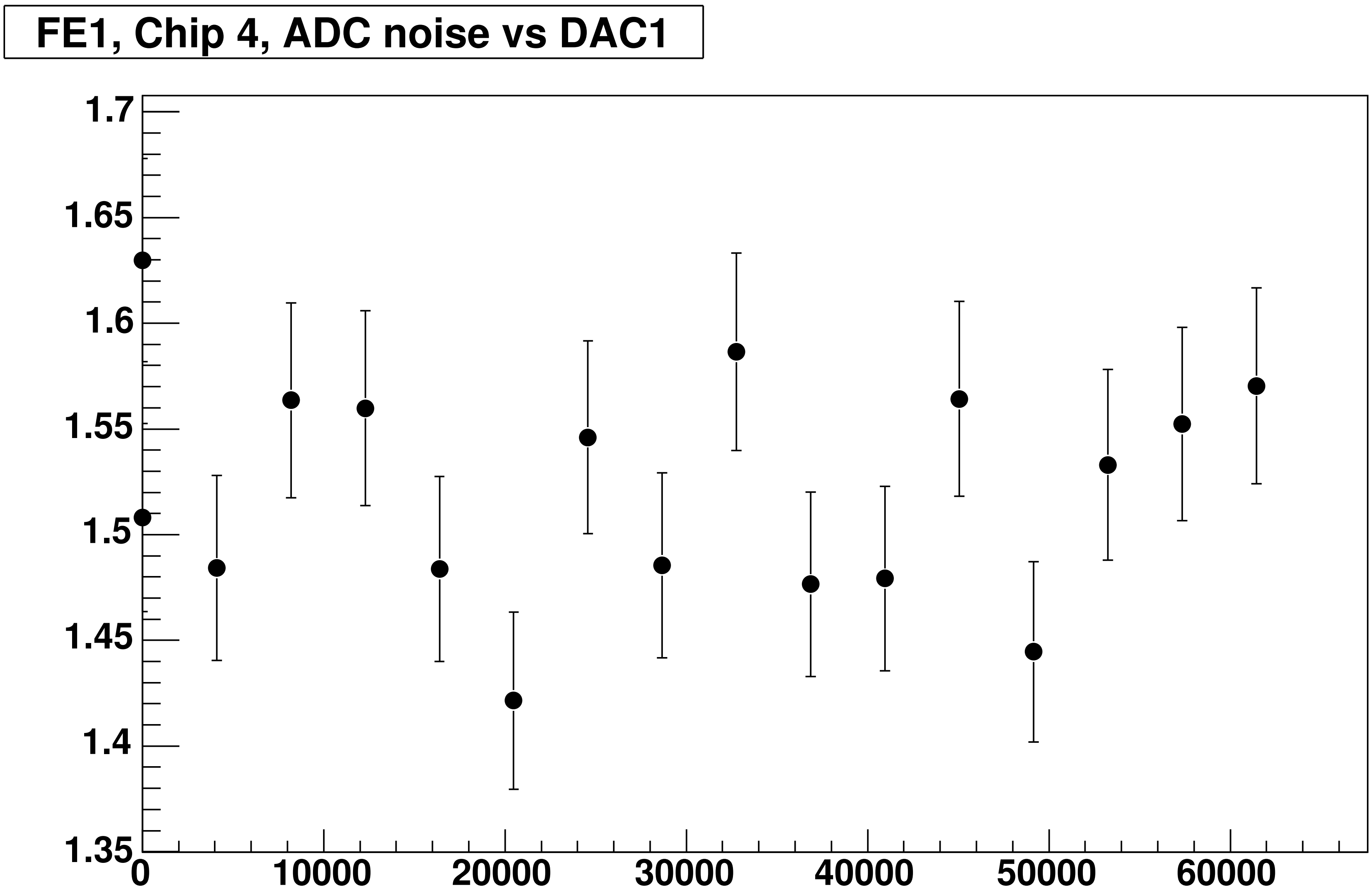

FE1, Chip 4, ADC mean vs DAC0
χ2 / ndf 1667 / 11
p0 52.72 ± 0.04304
p1 0.4513 ± 1.397e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

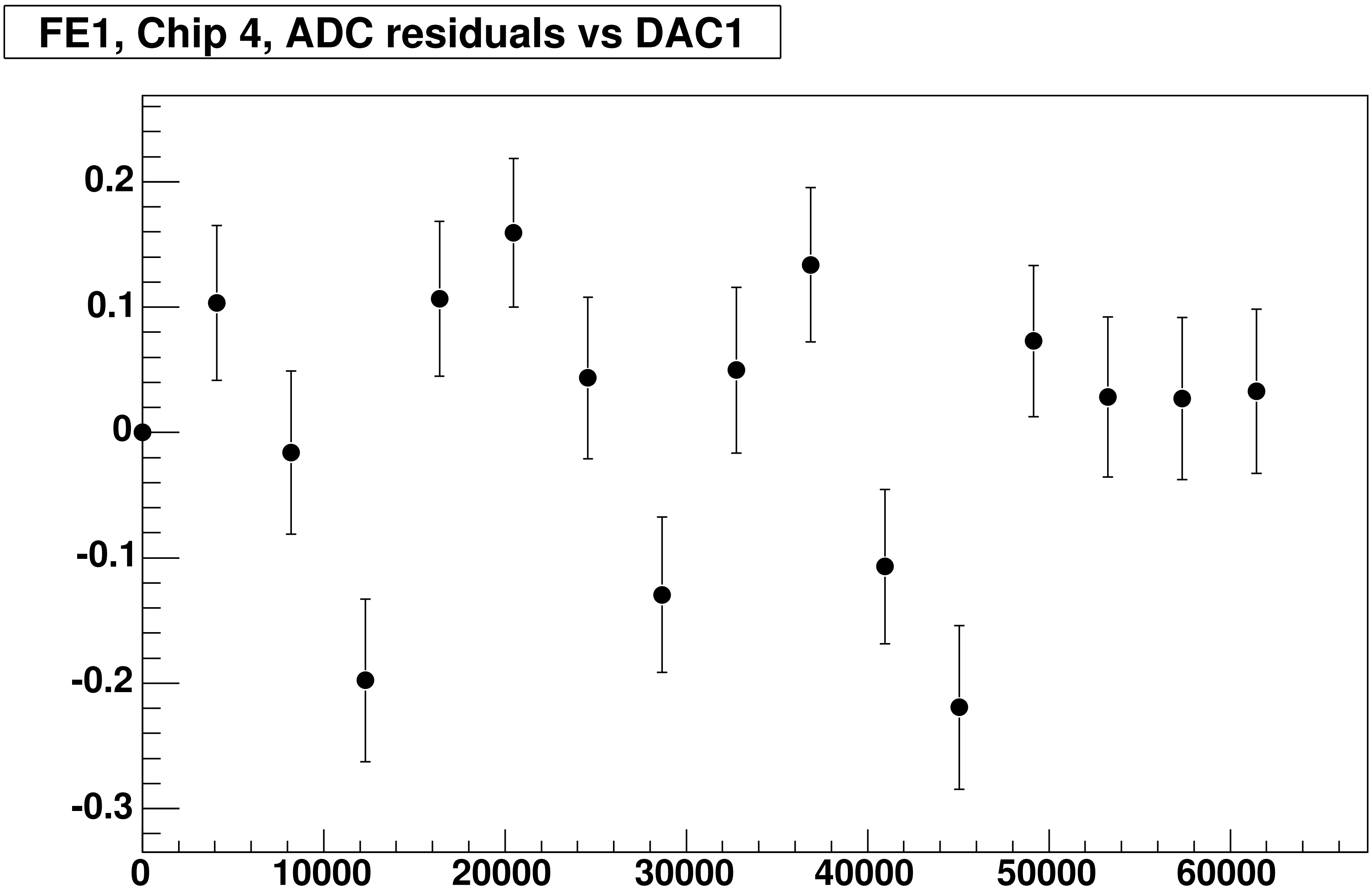

FE1, Chip 4, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

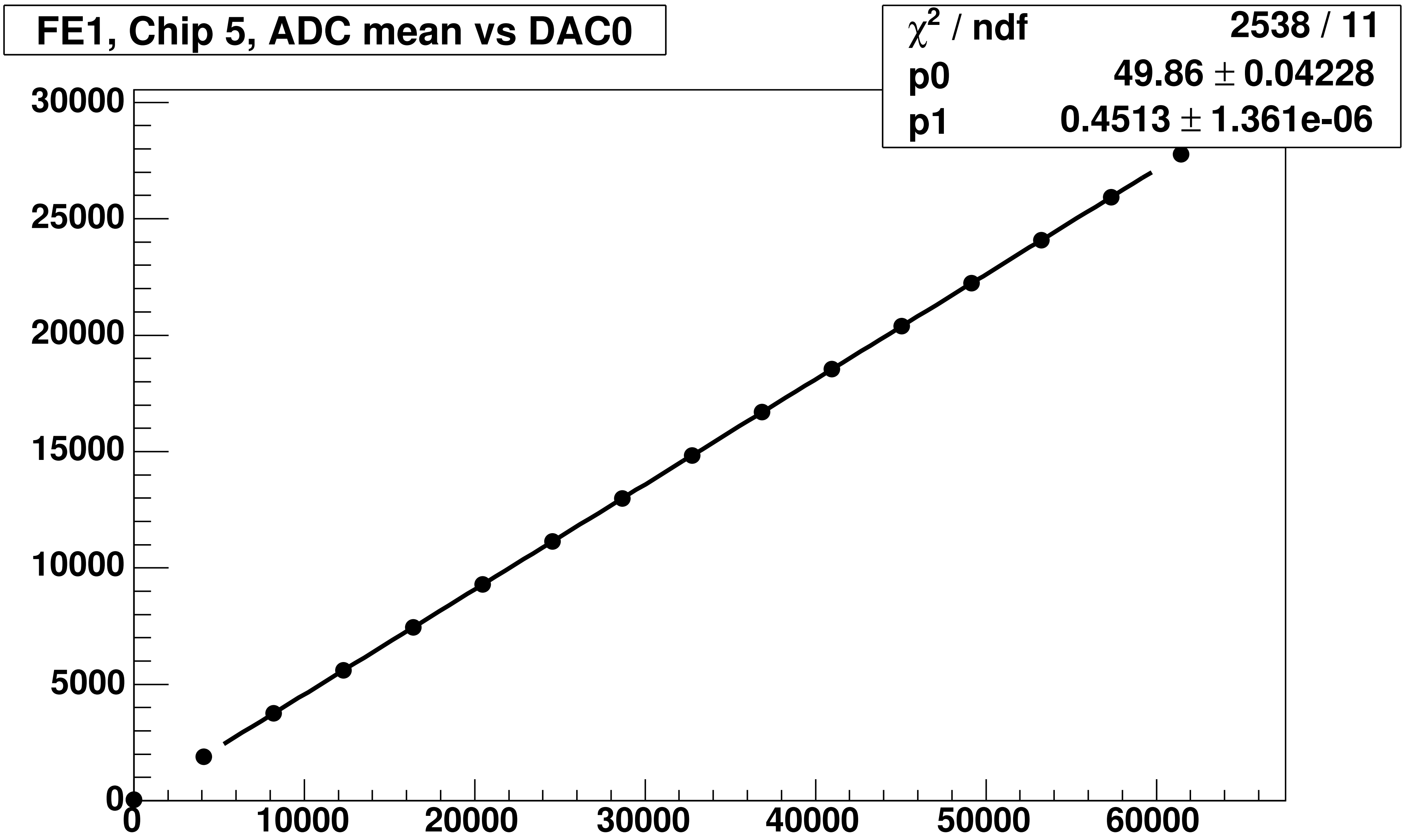

FE1, Chip 4, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



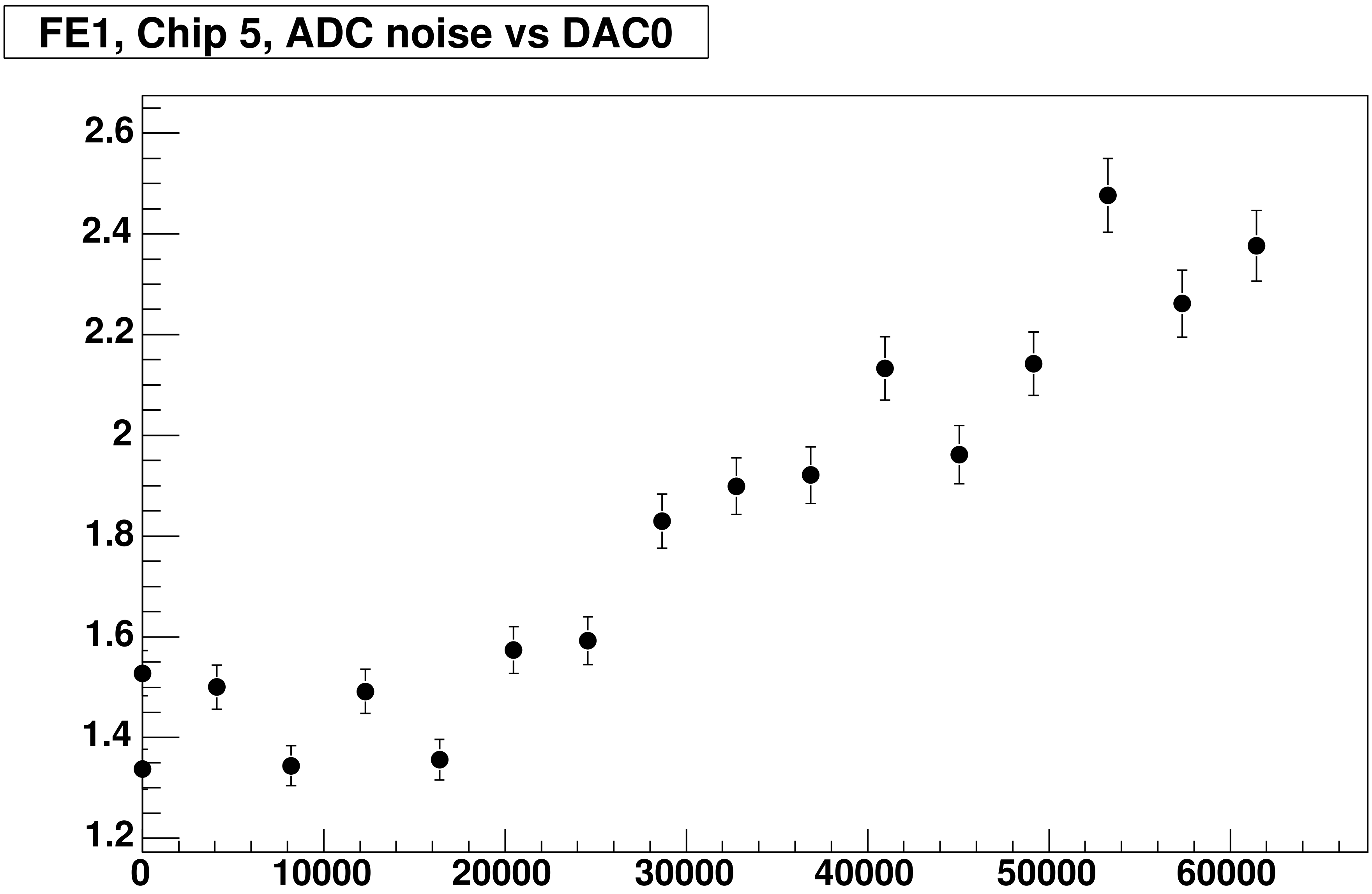
FE1, Chip 4, ADC mean vs DAC1
χ^2 / ndf 45.83 / 11
p0 50.29 ± 0.04161
p1 2.831e-06 ± 1.151e-06
50.6
50.5
50.4
50.3
50.2
50.1
0
10000
20000
30000
40000
50000
60000

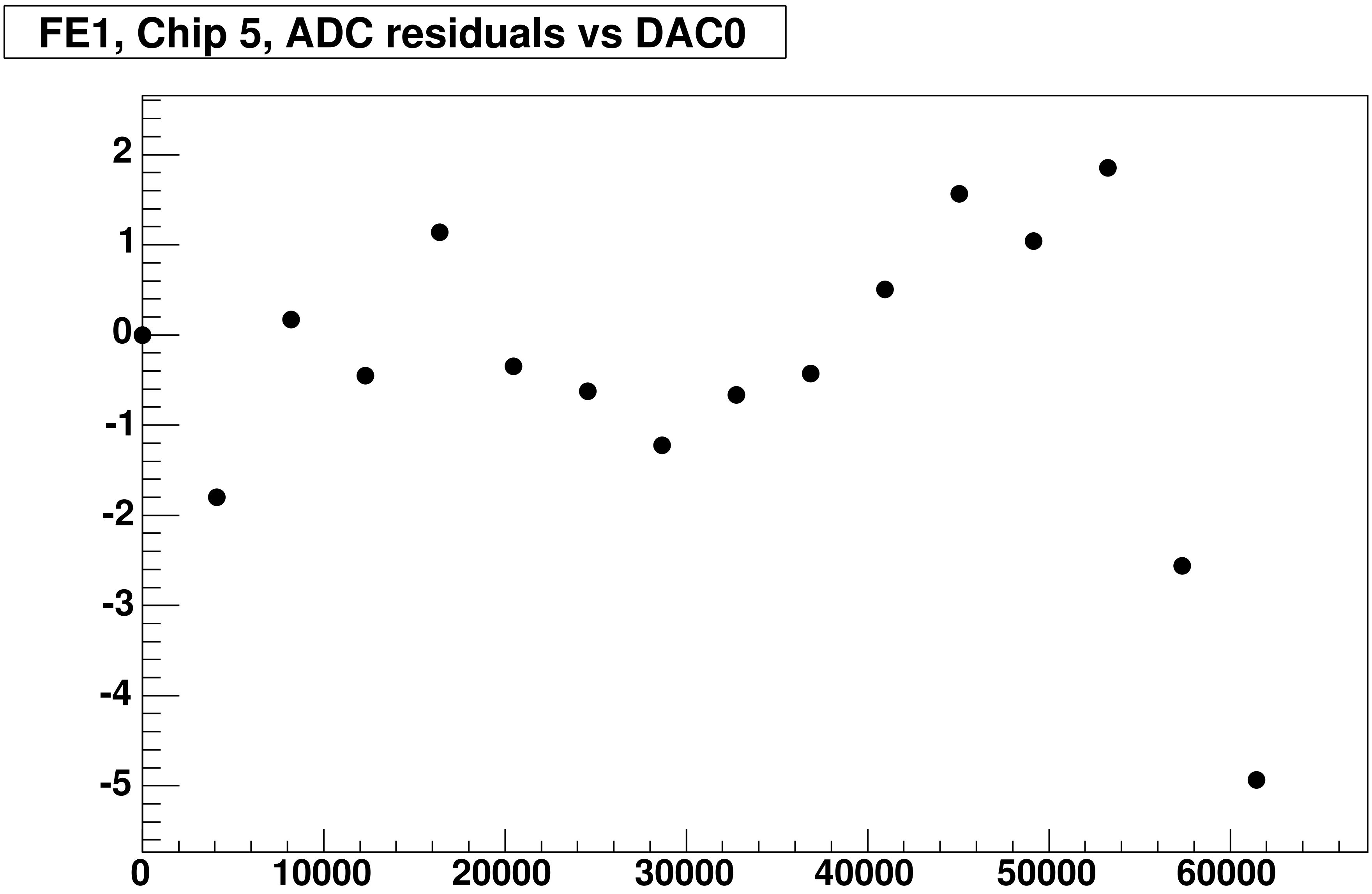

FE1, Chip 4, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

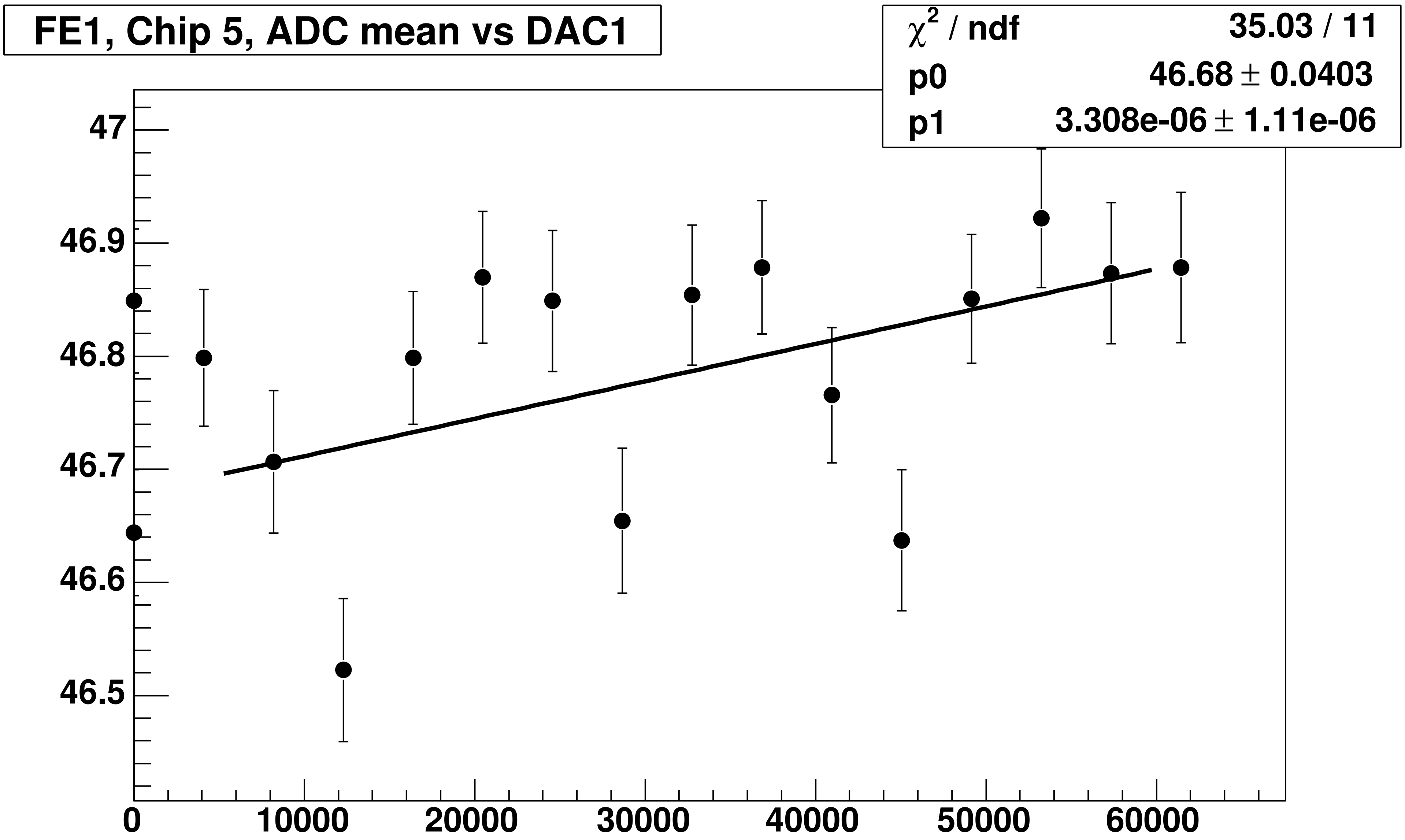

FE1, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



FE1, Chip 5, ADC mean vs DAC0
χ2 / ndf 2538 / 11
p0 49.86 ± 0.04228
p1 0.4513 ± 1.361e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

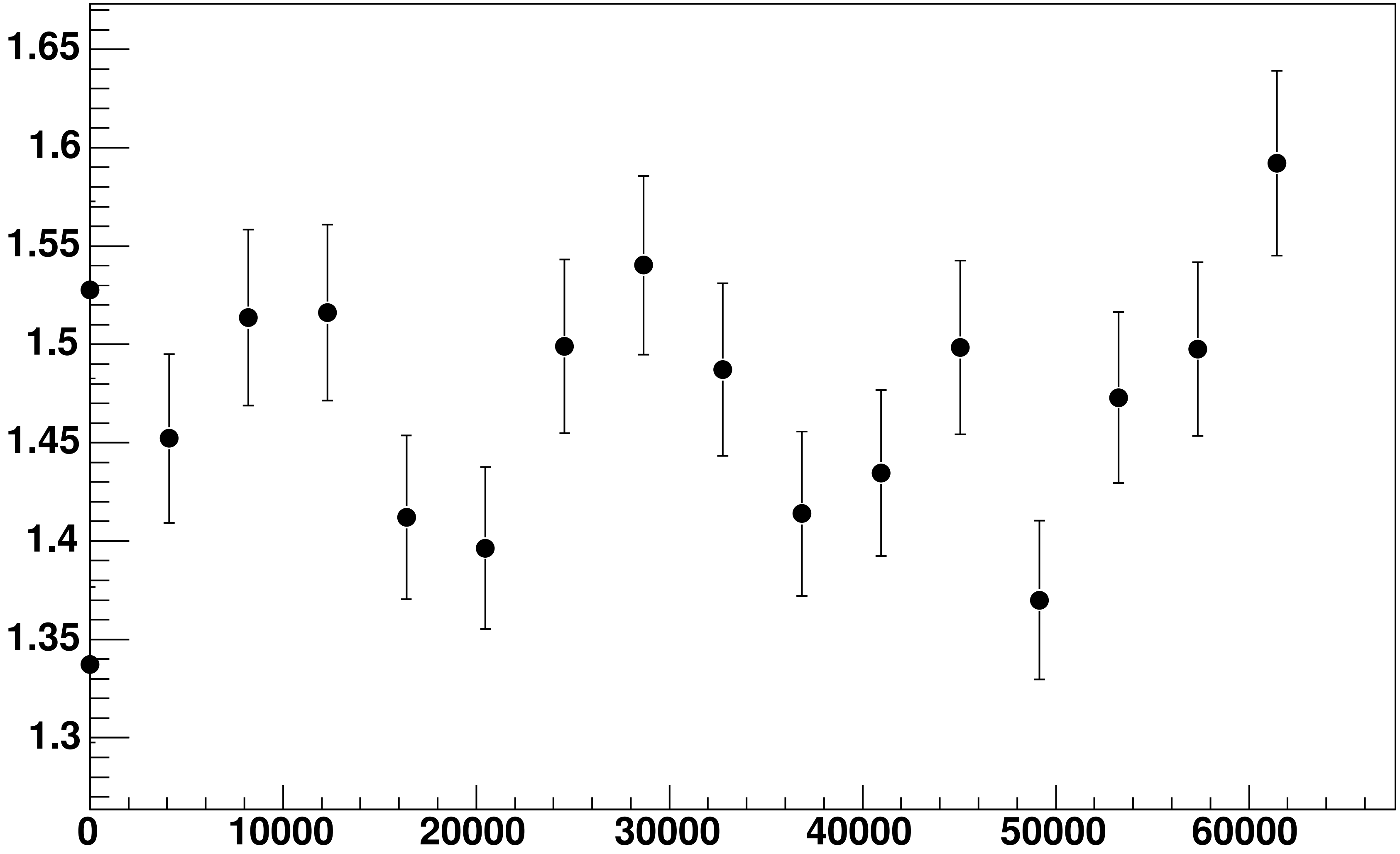

FE1, Chip 5, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

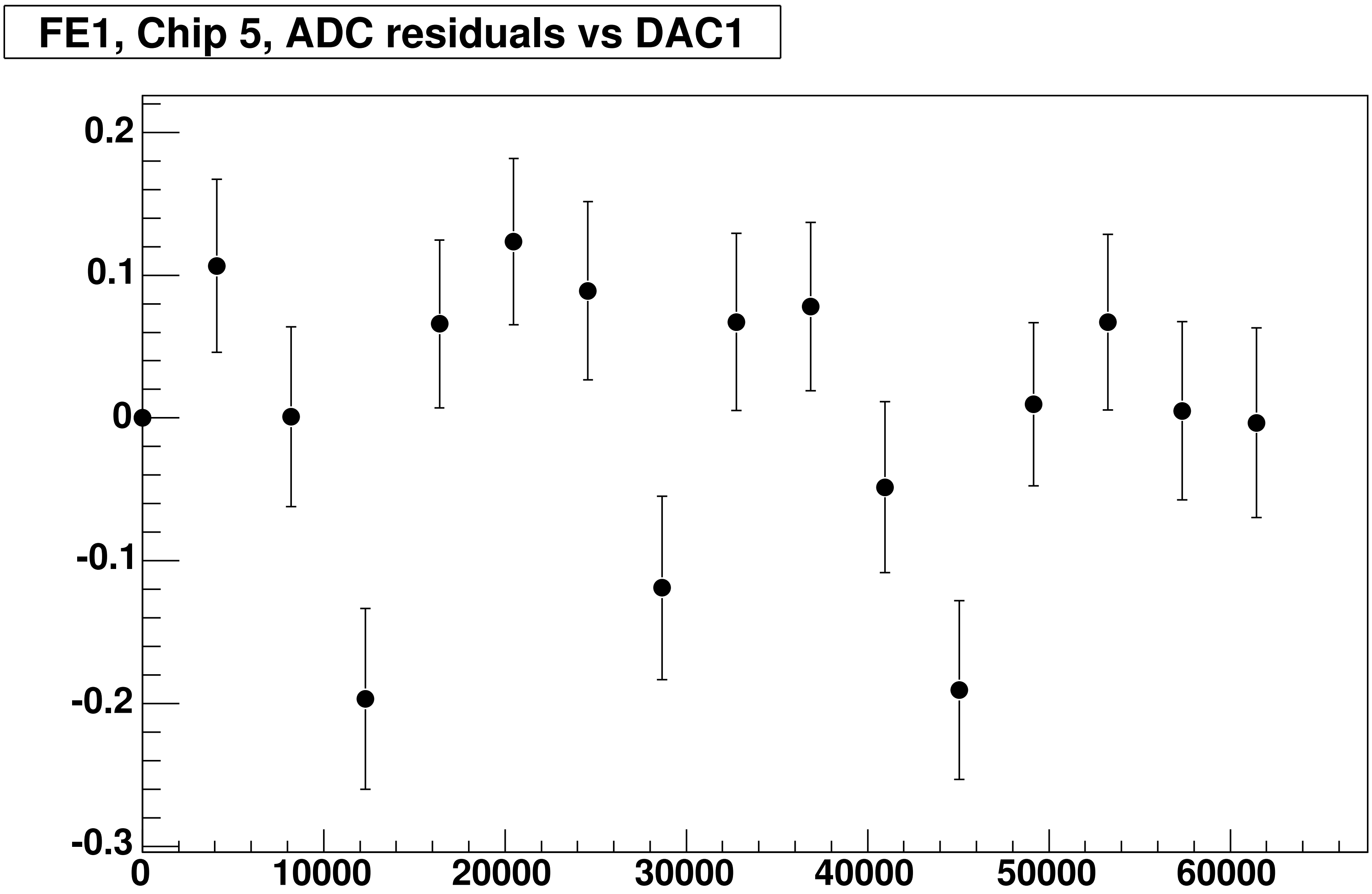

FE1, Chip 5, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

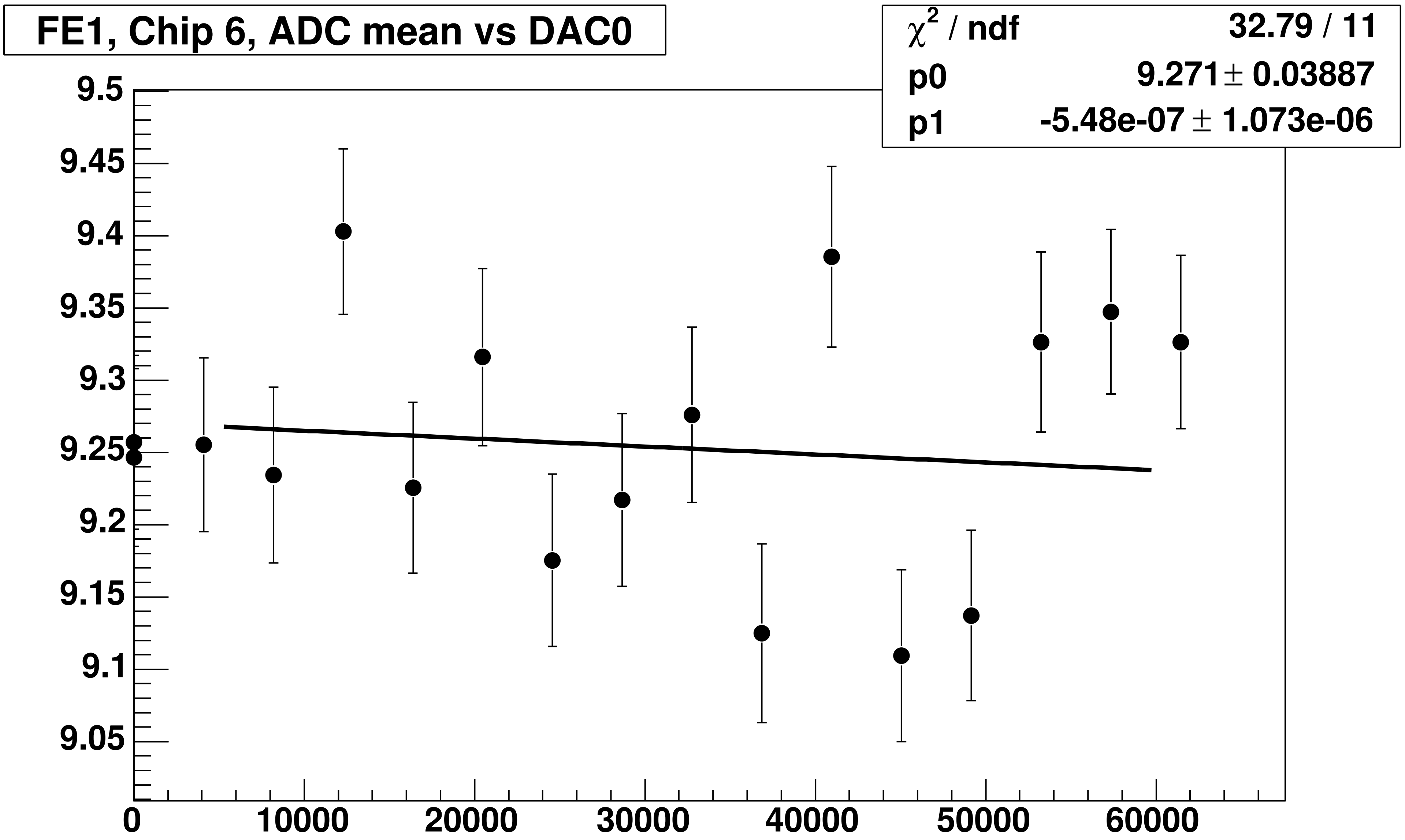


FE1, Chip 5, ADC mean vs DAC1
χ^2 / ndf 35.03 / 11
p0 46.68 ± 0.0403
p1 3.308e-06 ± 1.11e-06
47
46.9
46.8
46.7
46.6
46.5
0
10000
20000
30000
40000
50000
60000

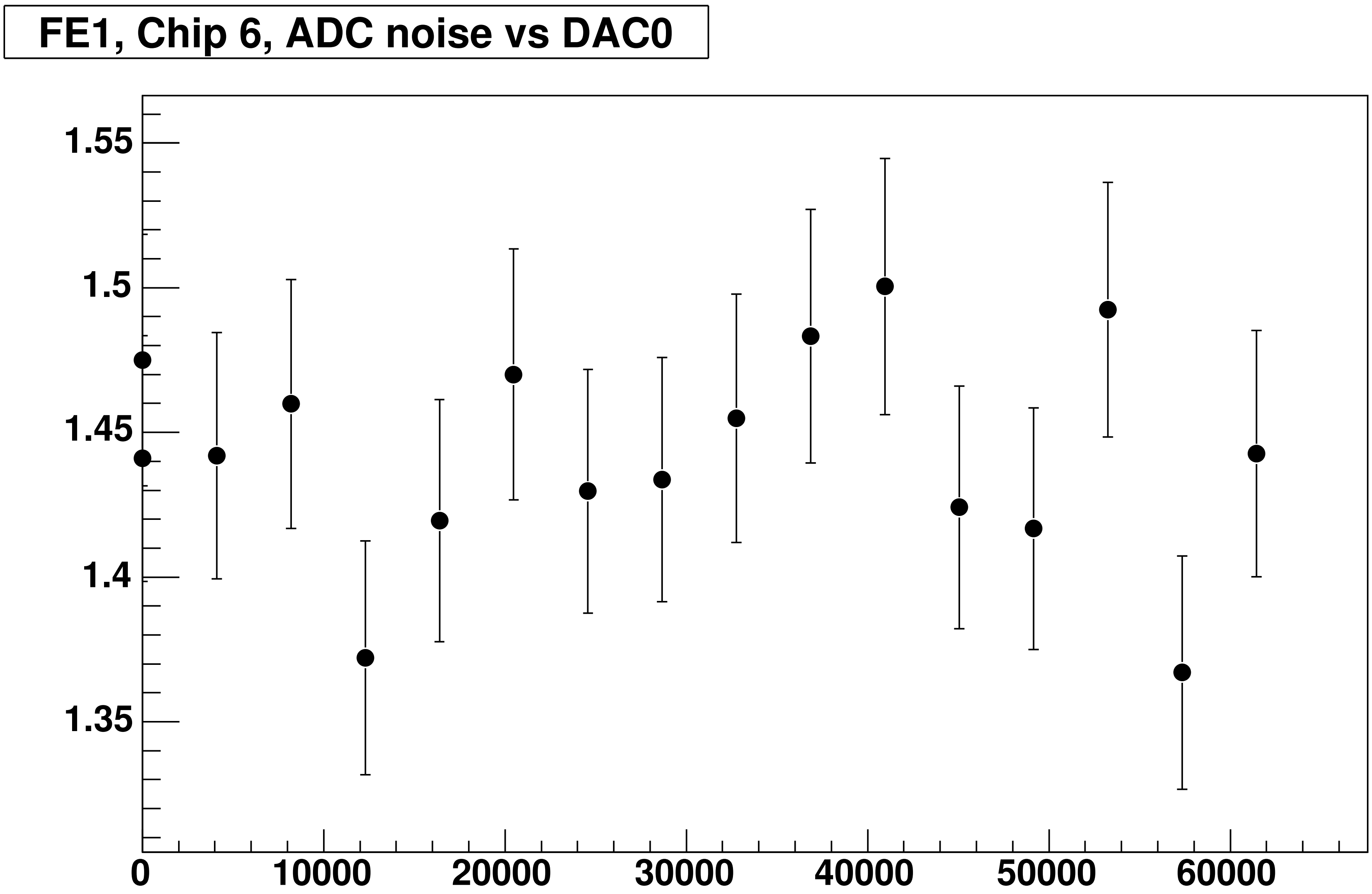
FE1, Chip 5, ADC noise vs DAC1

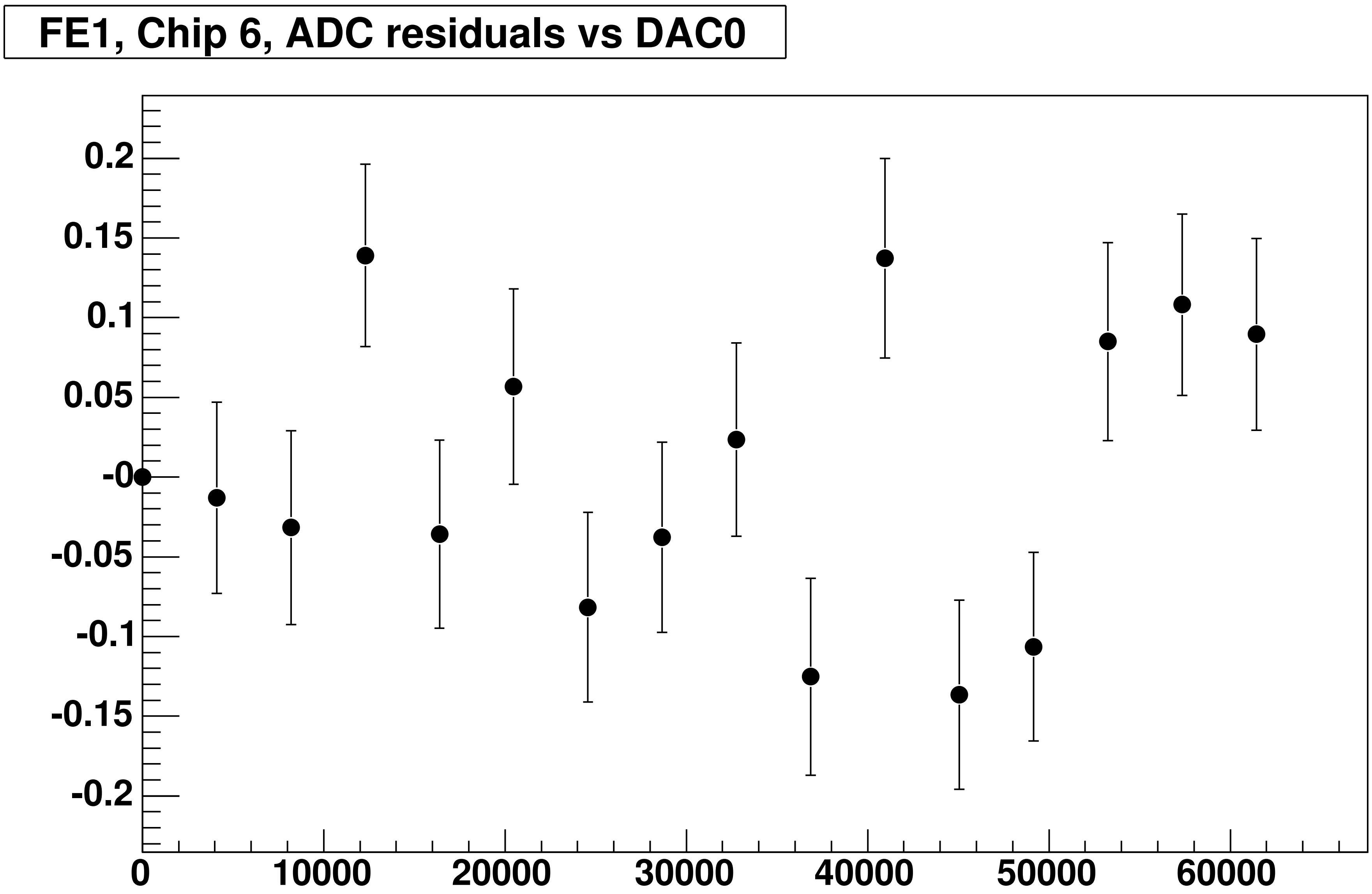



FE1, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

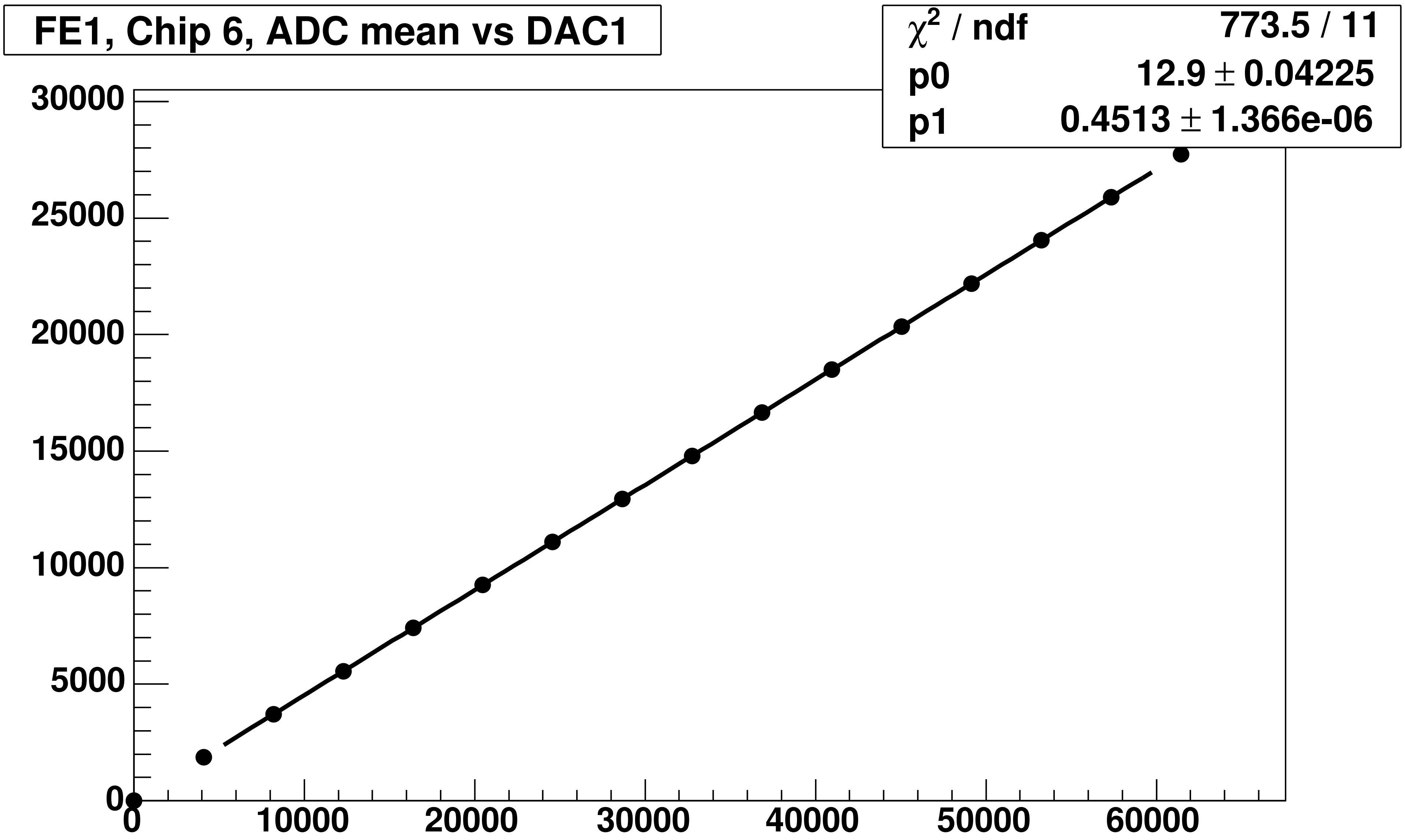


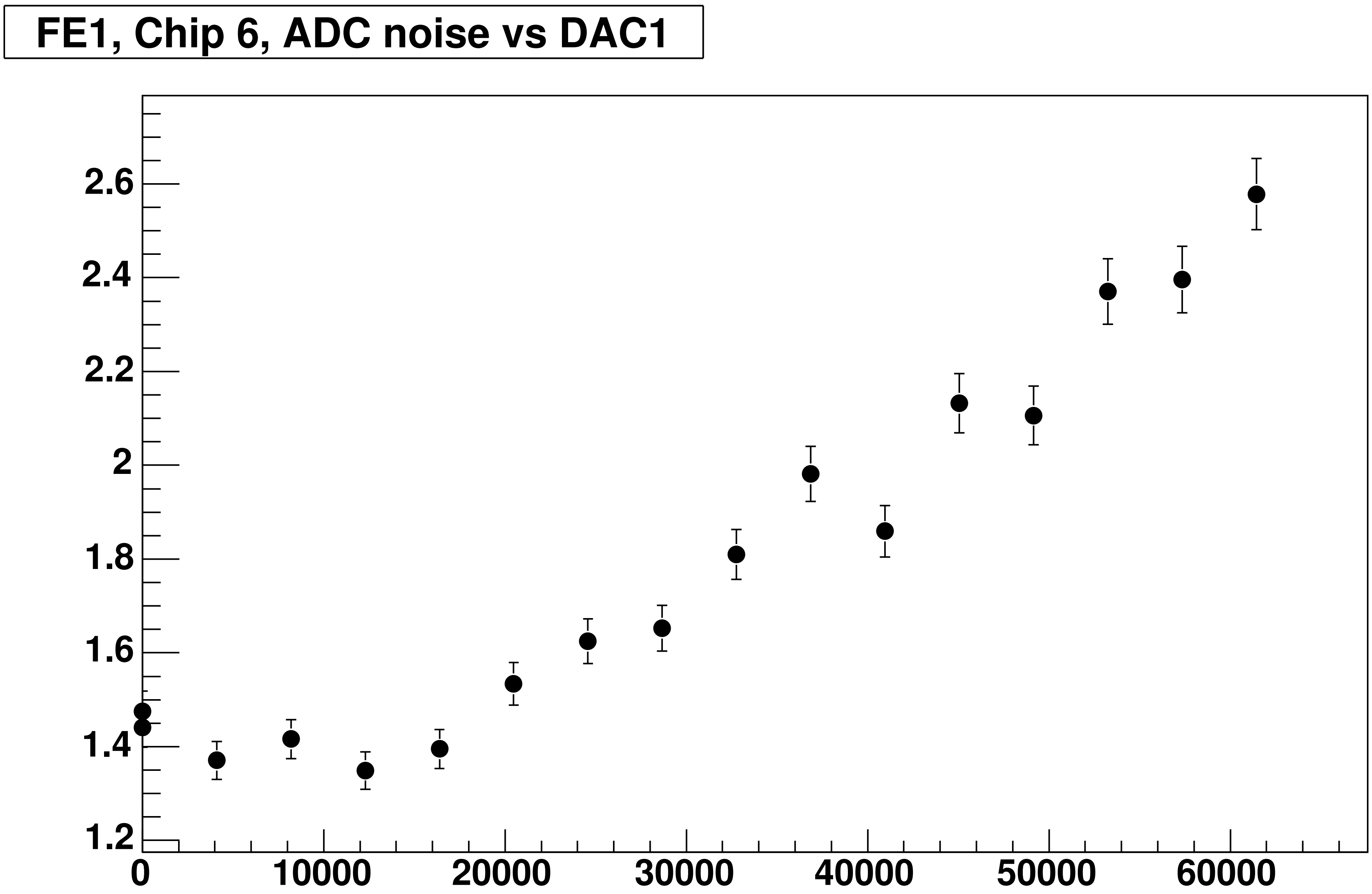
FE1, Chip 6, ADC mean vs DAC0
χ^2 / ndf 32.79 / 11
p0 9.271 ± 0.03887
p1 -5.48e-07 ± 1.073e-06
9.5
9.45
9.4
9.35
9.3
9.25
9.2
9.15
9.1
9.05
0
10000
20000
30000
40000
50000
60000


FE1, Chip 6, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

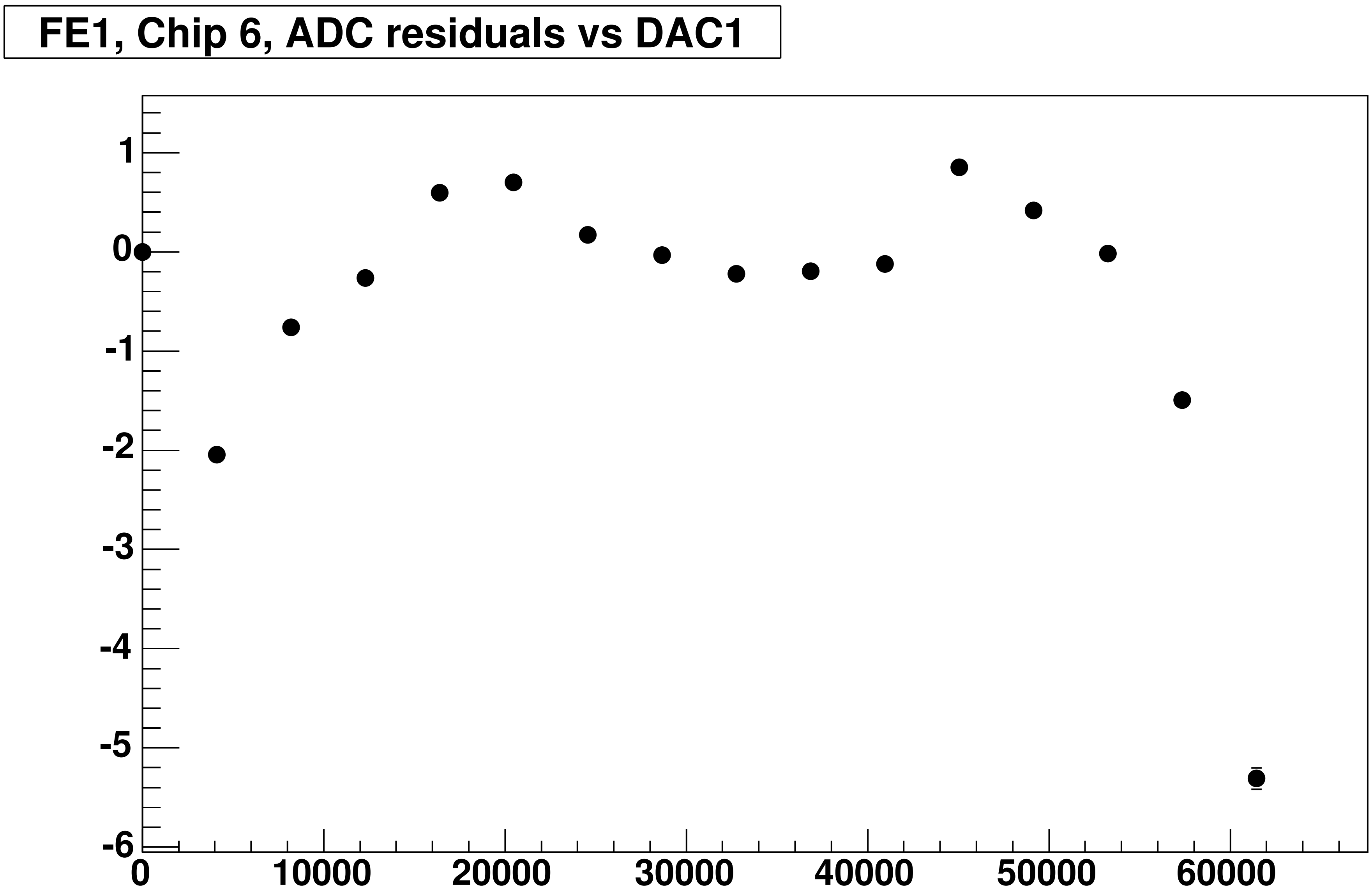


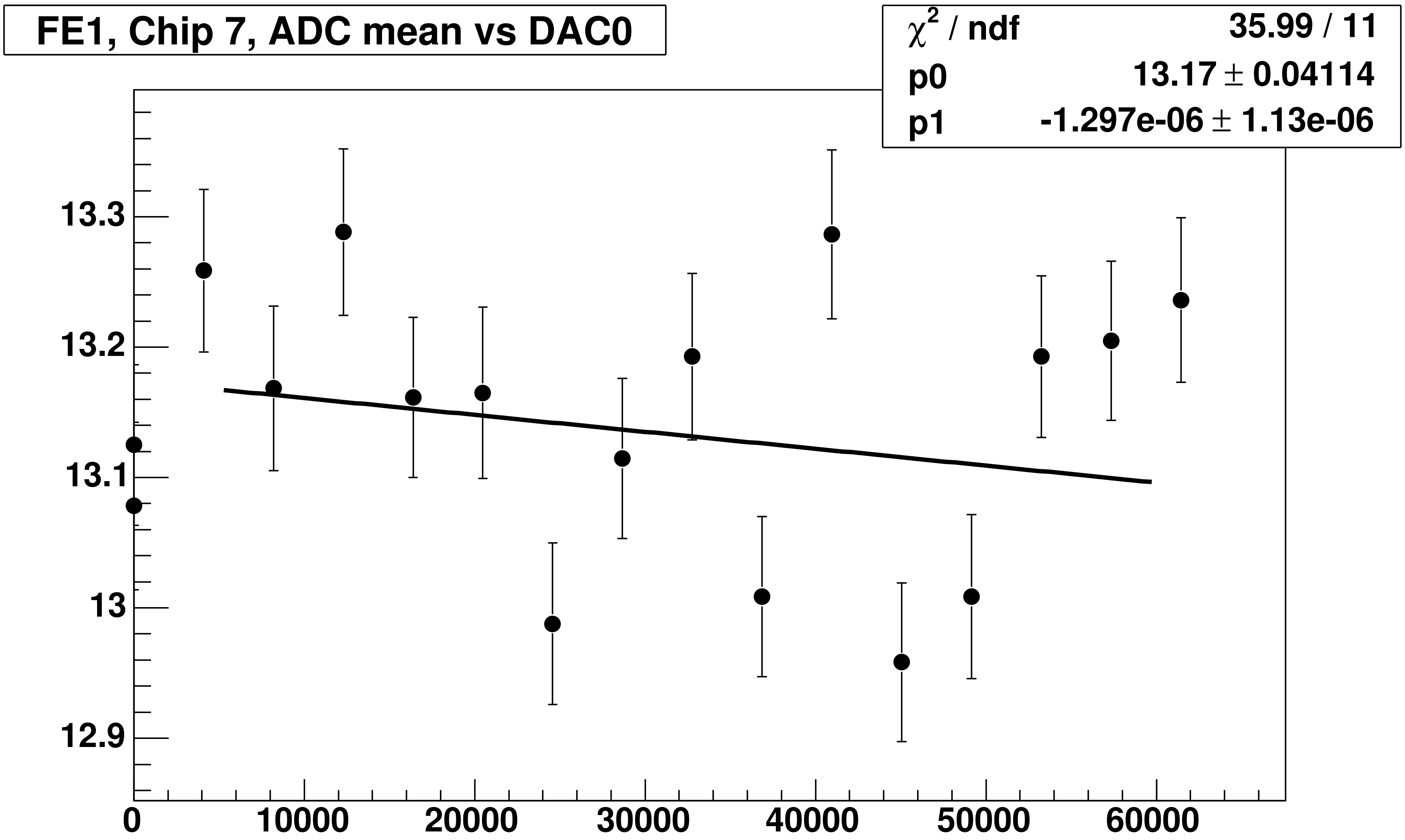
FE1, Chip 6, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

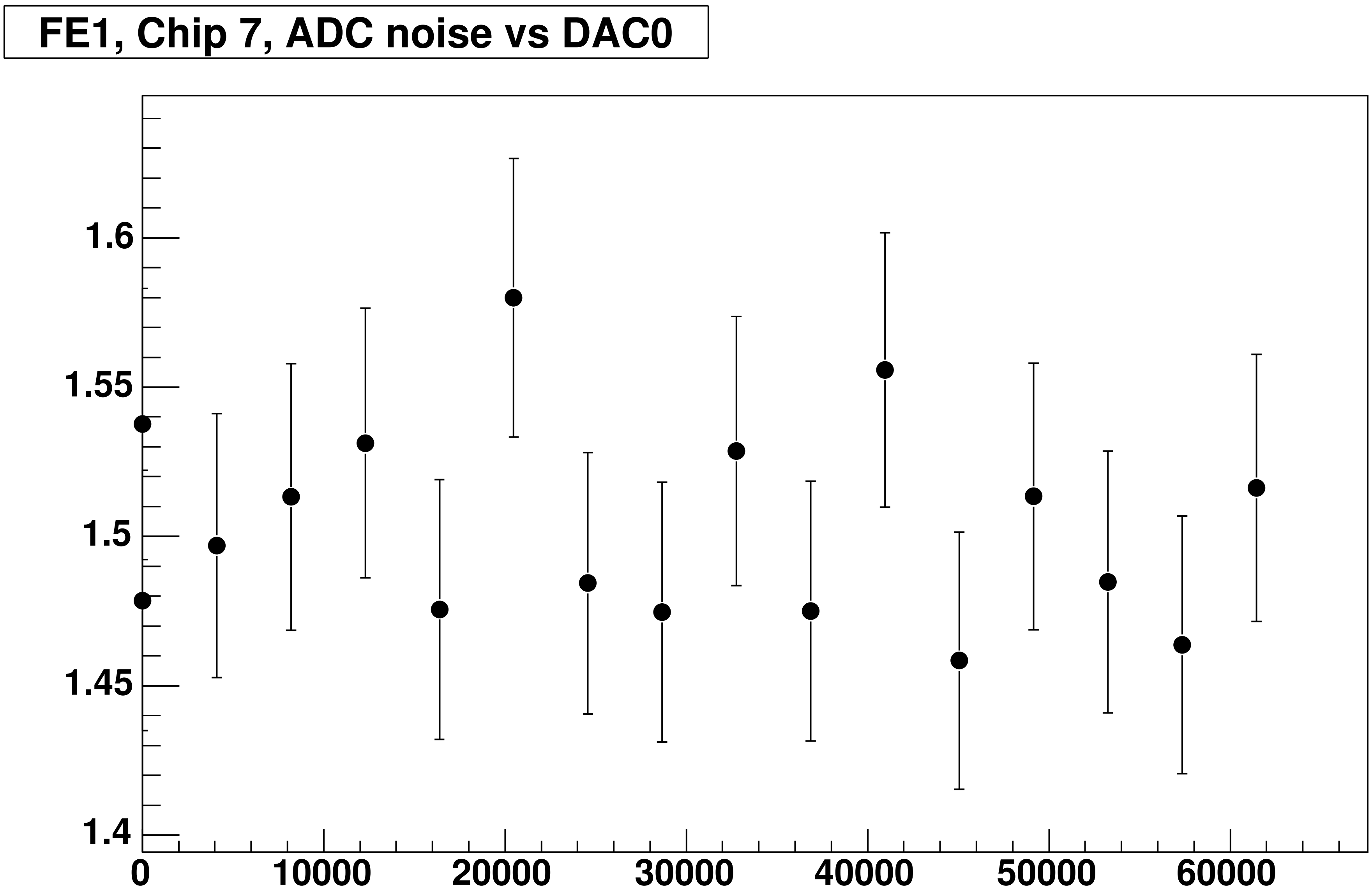

FE1, Chip 6, ADC mean vs DAC1
χ^2 / ndf 773.5 / 11
p0 12.9 ± 0.04225
p1 0.4513 ± 1.366e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000



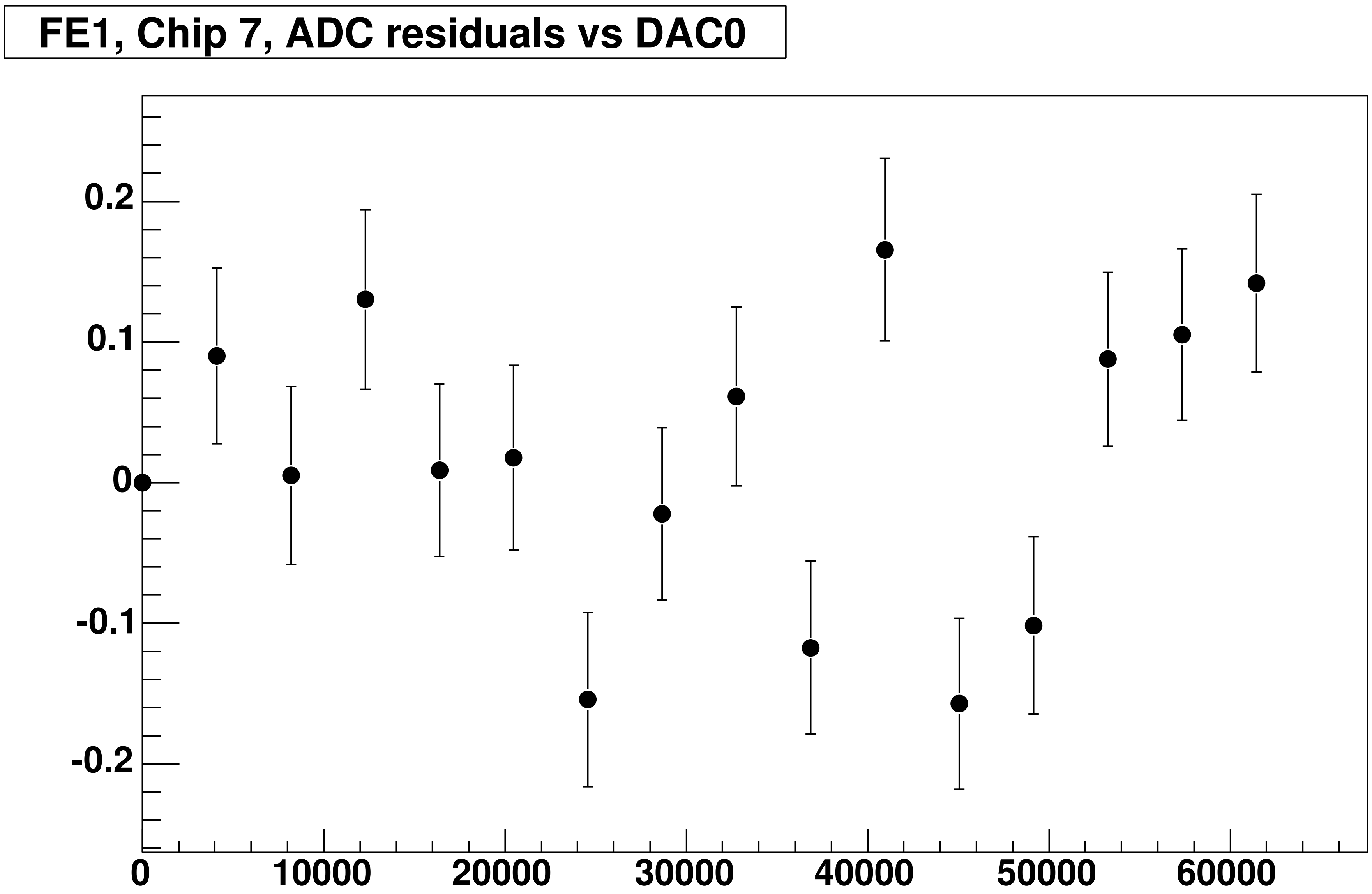
FE1, Chip 6, ADC noise vs DAC1
1.2
1.4
1.6
1.8
2
2.2
2.4
2.6
0
10000
20000
30000
40000
50000
60000

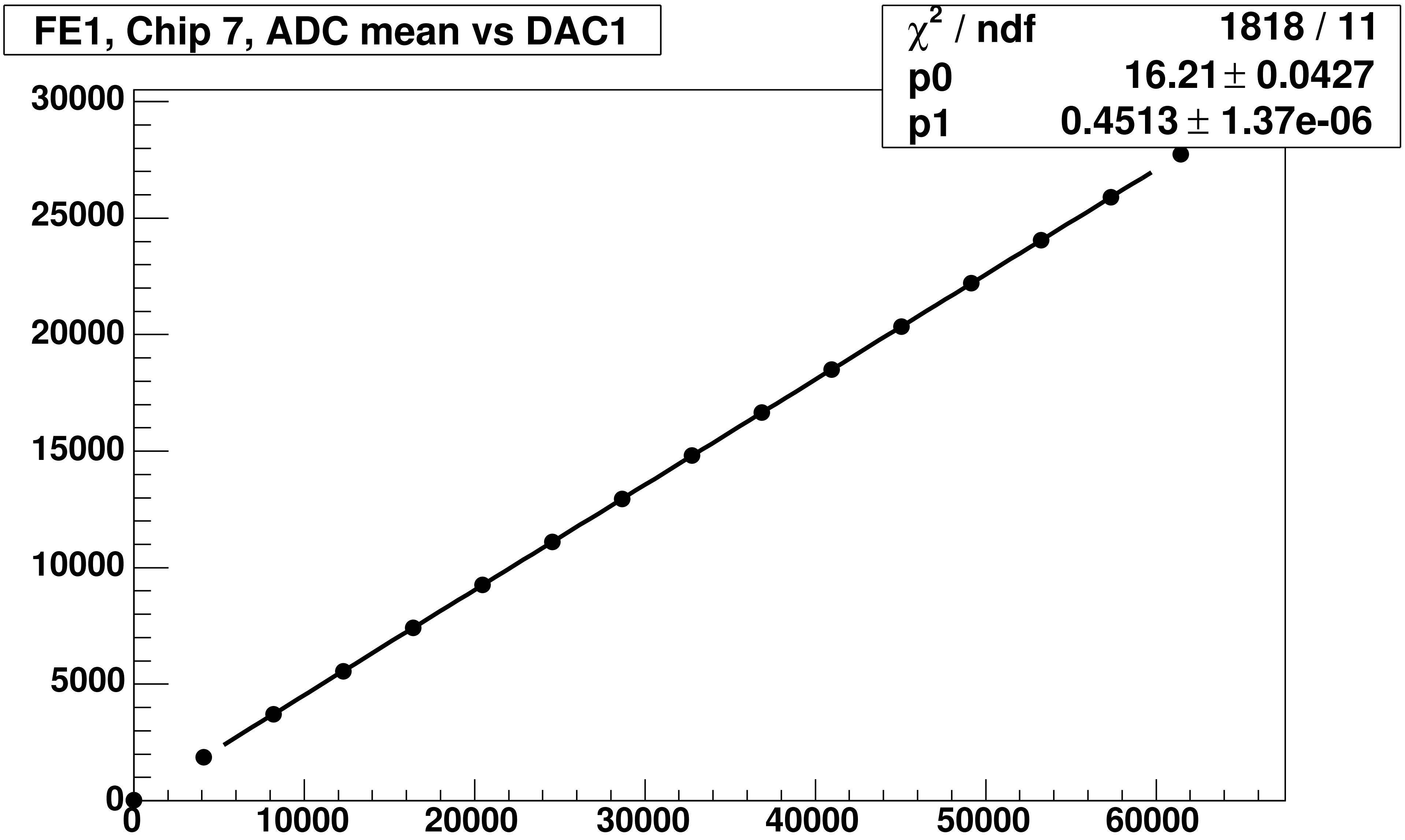

FE1, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

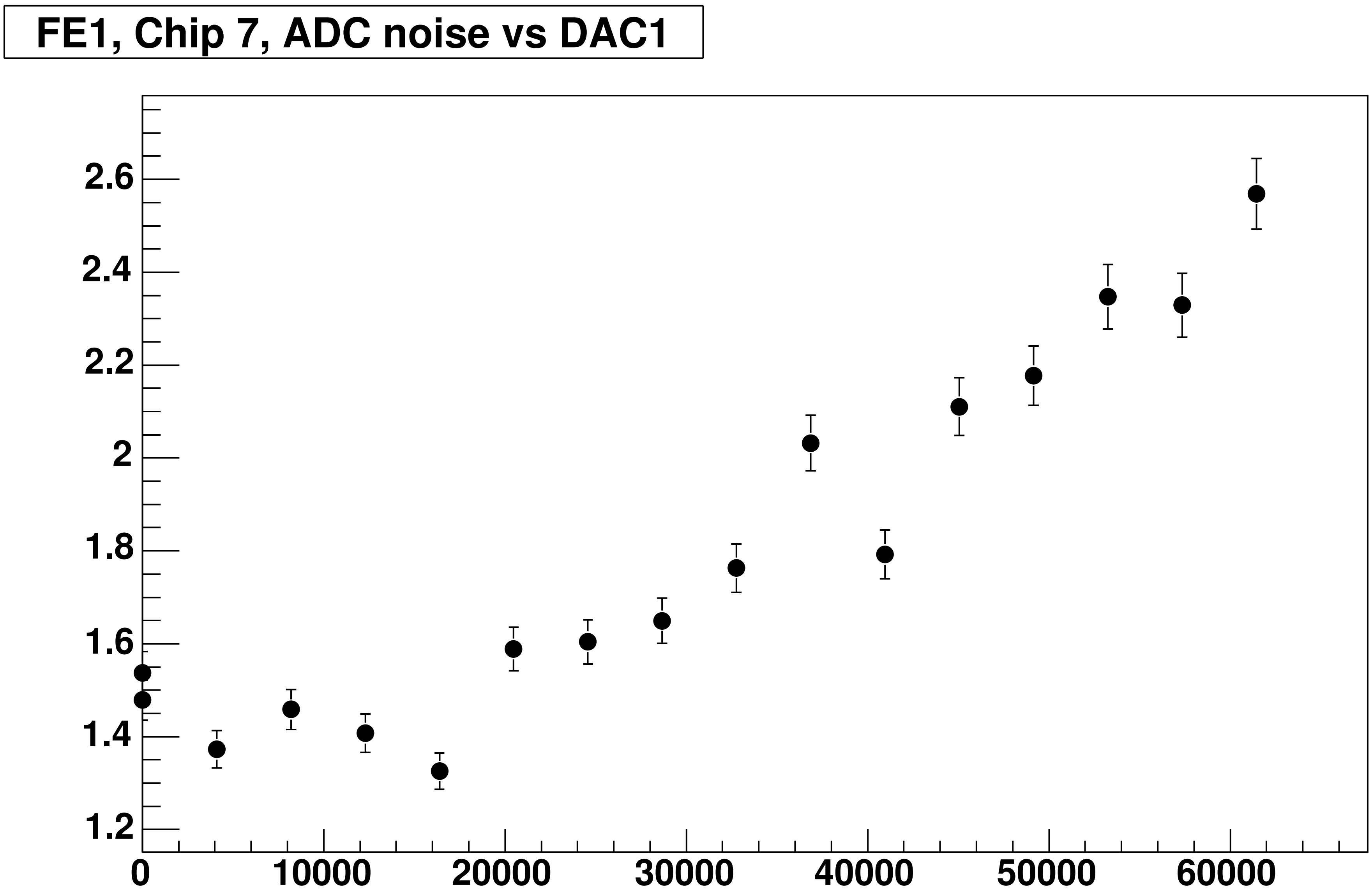

FE1, Chip 7, ADC mean vs DAC0
χ^2 / ndf 35.99 / 11
p0 13.17 ± 0.04114
p1 -1.297e-06 ± 1.13e-06
13.3
13.2
13.1
13
12.9
0
10000
20000
30000
40000
50000
60000

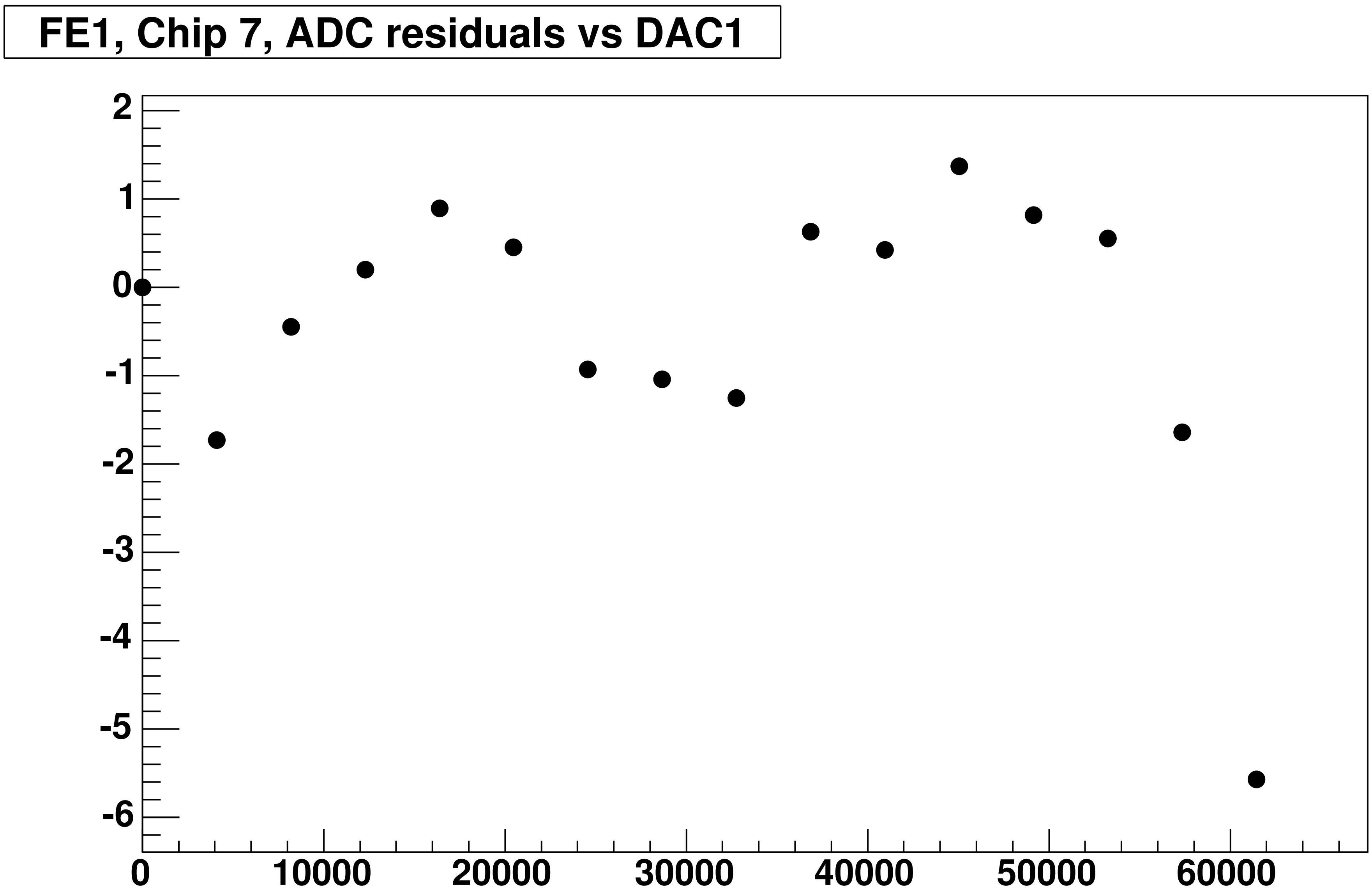


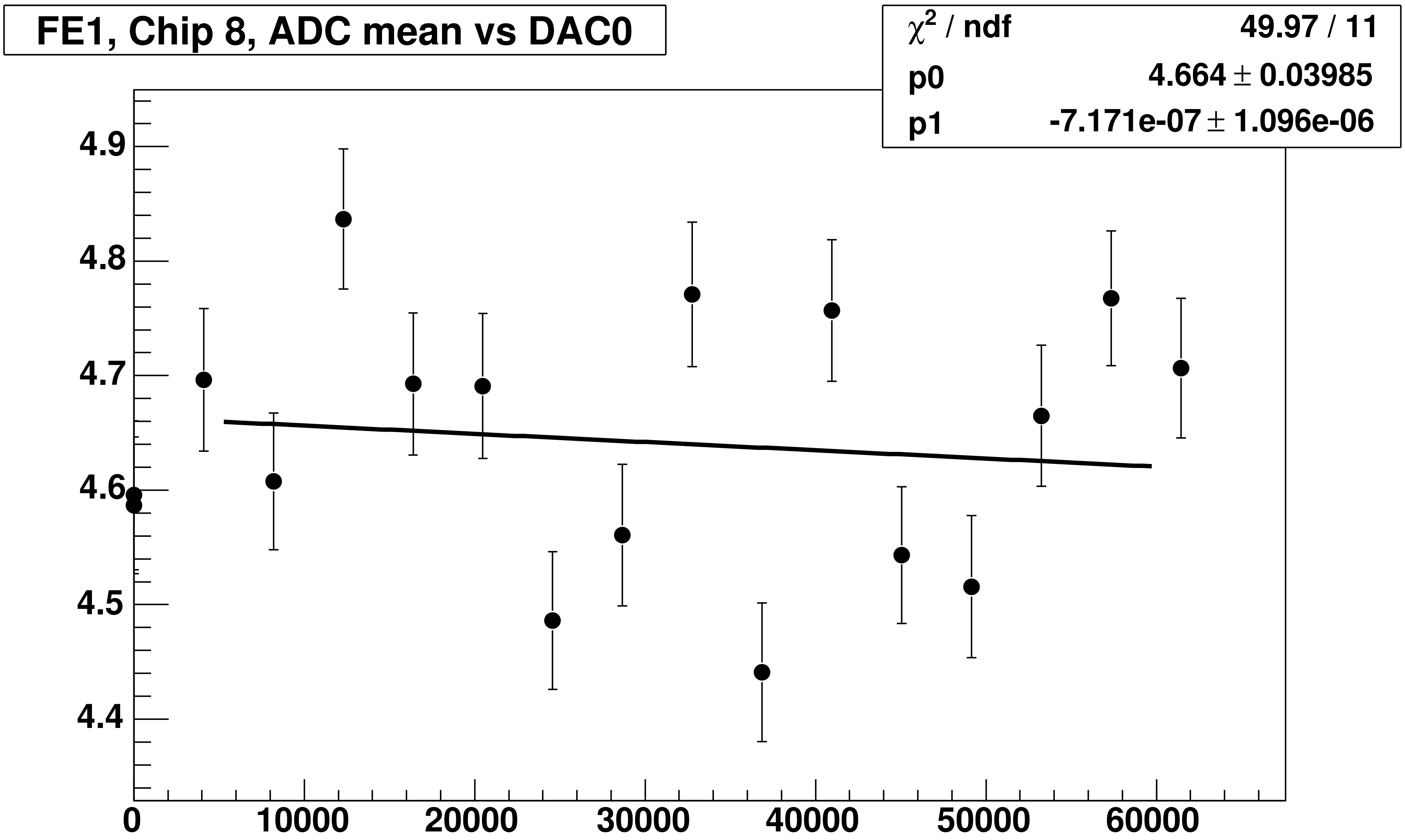
FE1, Chip 7, ADC noise vs DAC0
1.4
1.45
1.5
1.55
1.6
0
10000
20000
30000
40000
50000
60000

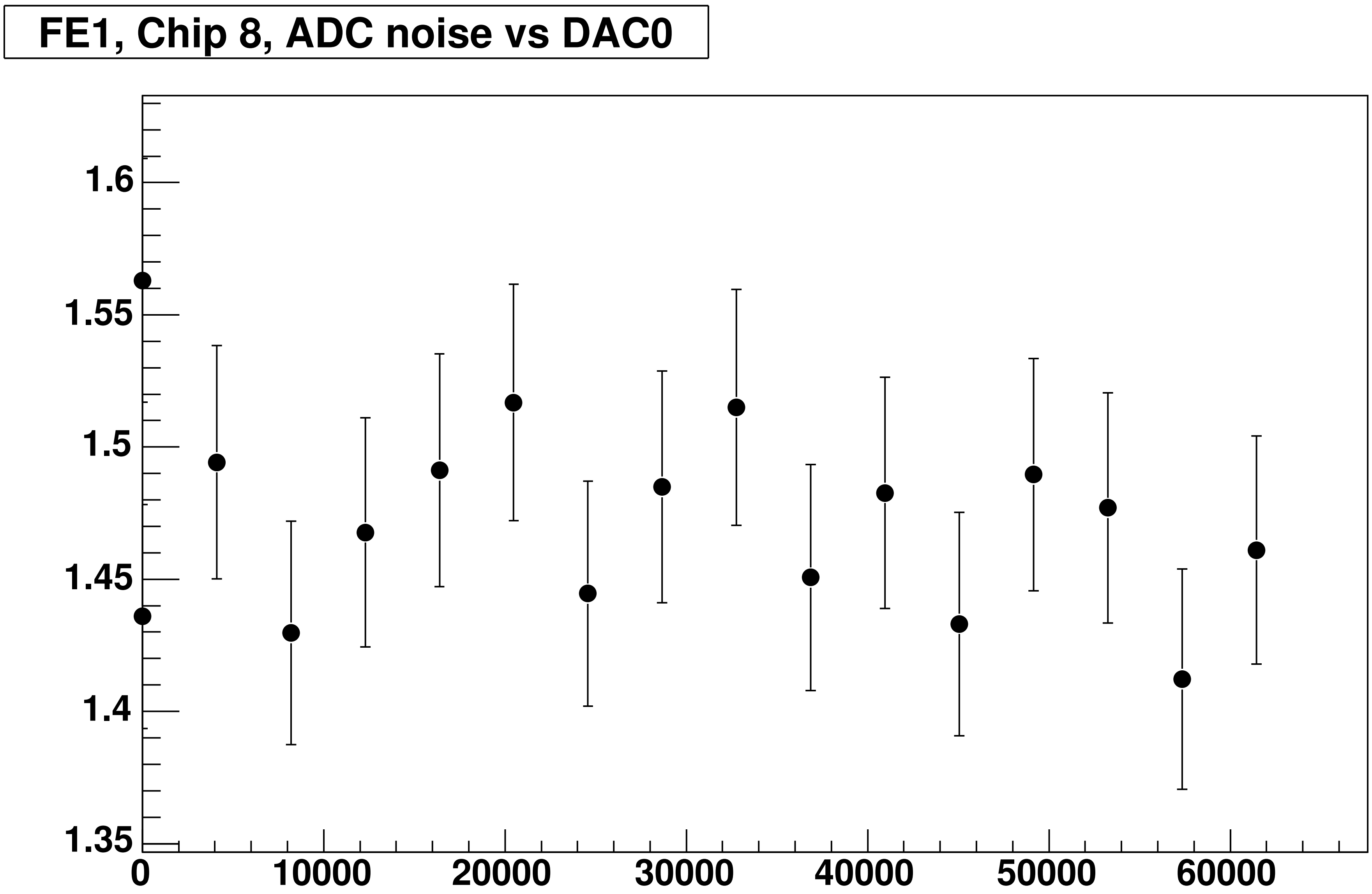

FE1, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

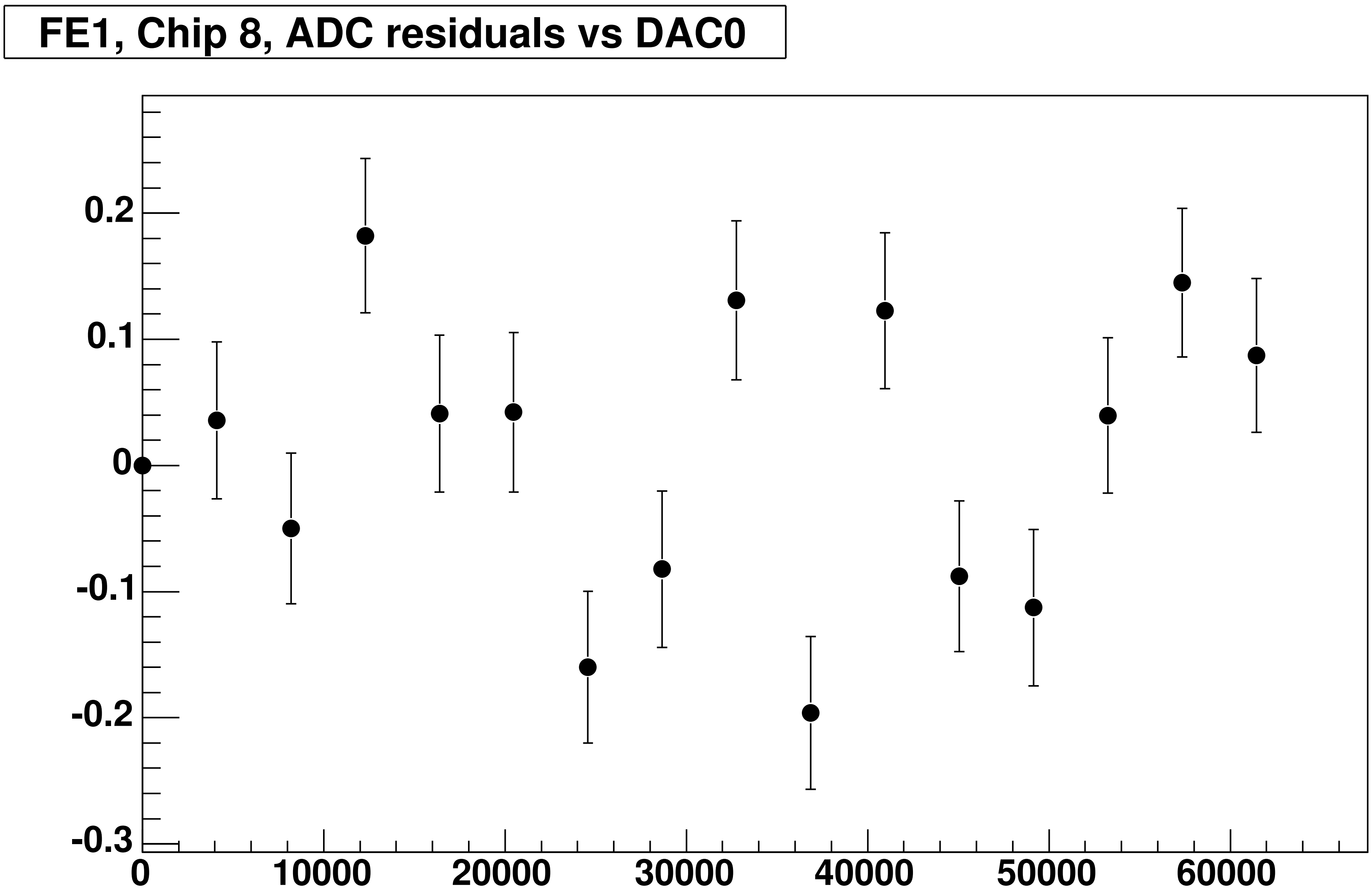

FE1, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1818 / 11
p0 16.21 ± 0.0427
p1 0.4513 ± 1.37e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


FE1, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

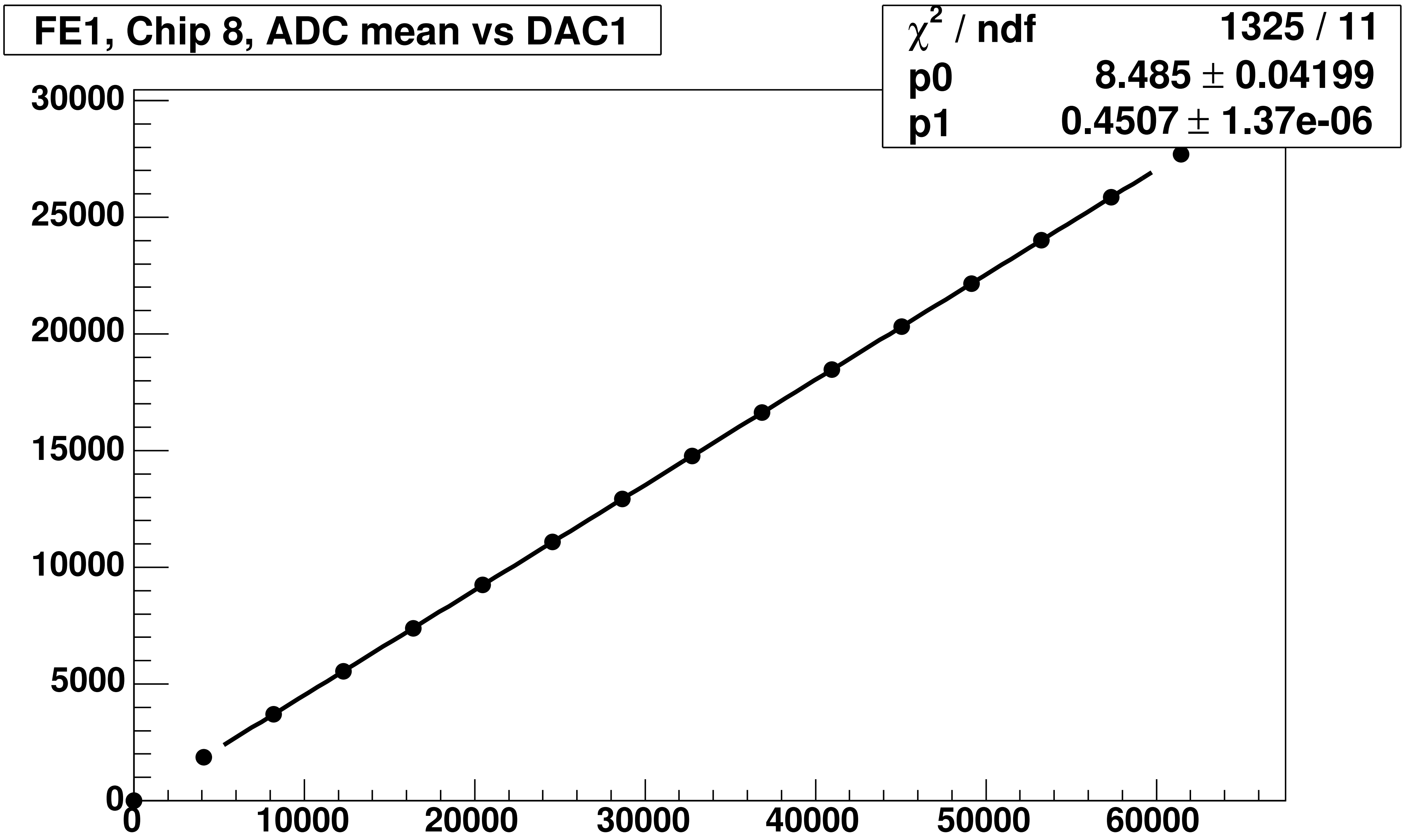

FE1, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

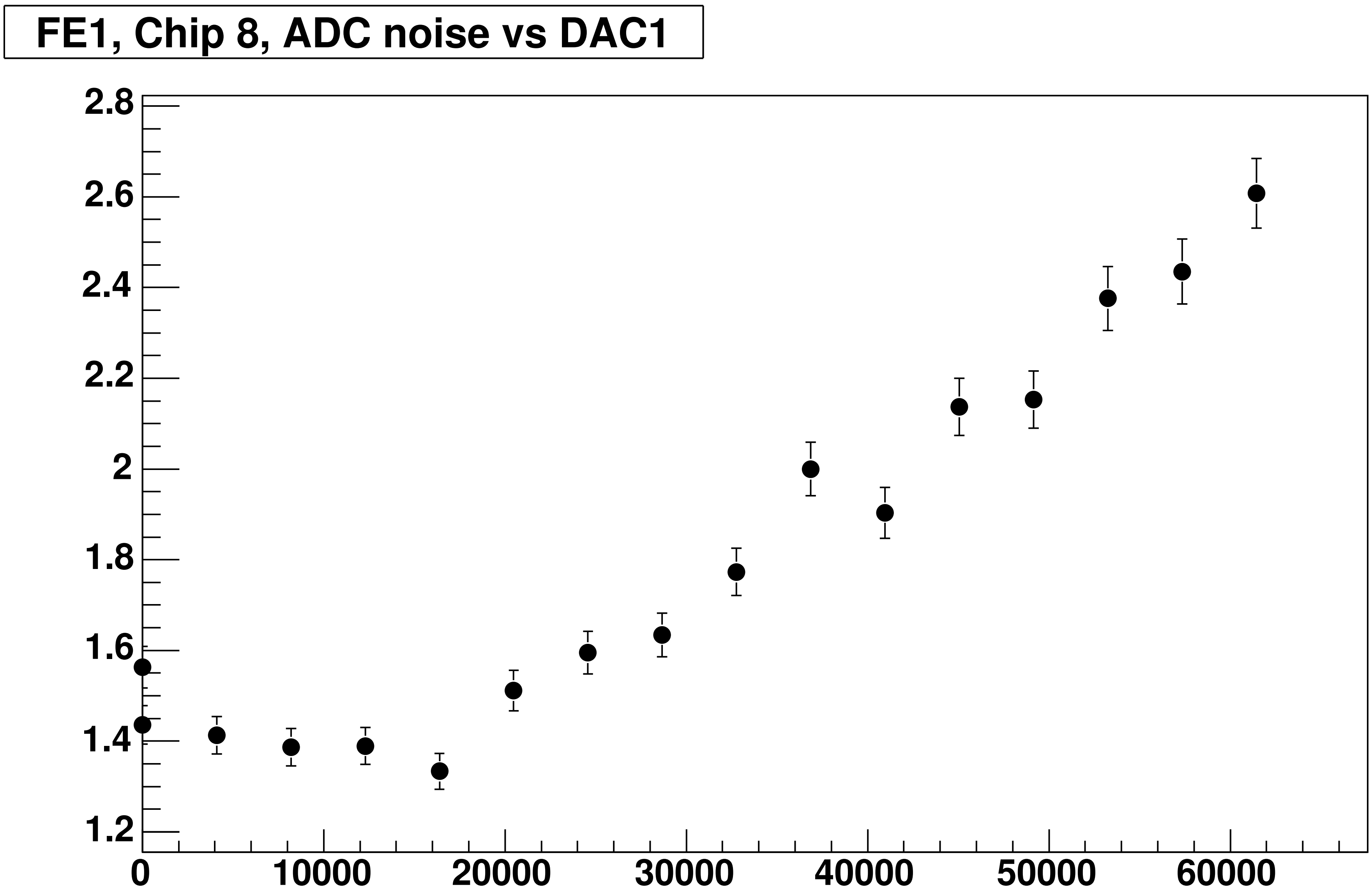

FE1, Chip 8, ADC mean vs DAC0
χ² / ndf 49.97 / 11
p0 4.664 ± 0.03985
p1 -7.171e-07 ± 1.096e-06
4.9
4.8
4.7
4.6
4.5
4.4
0
10000
20000
30000
40000
50000
60000


FE1, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

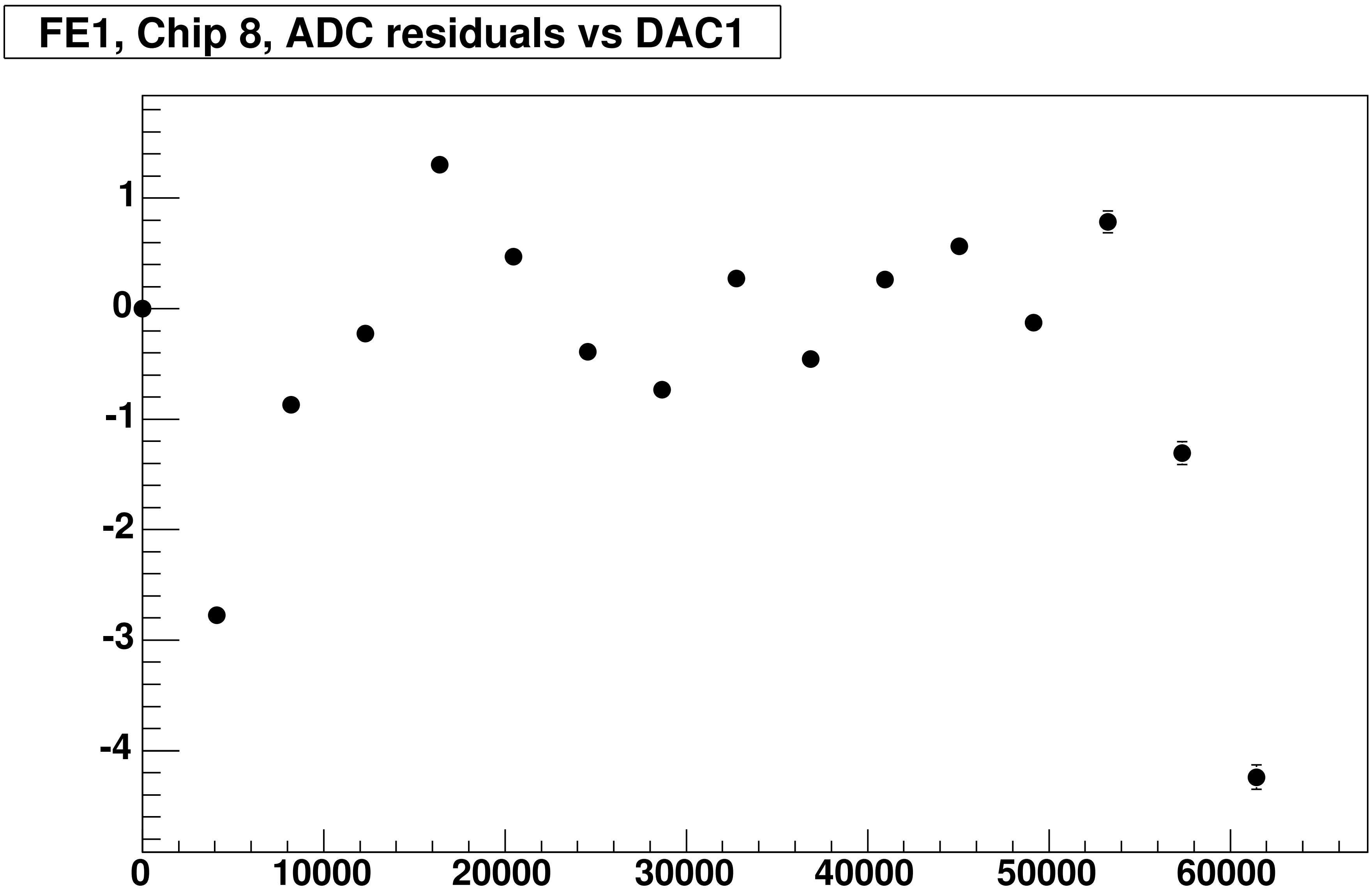


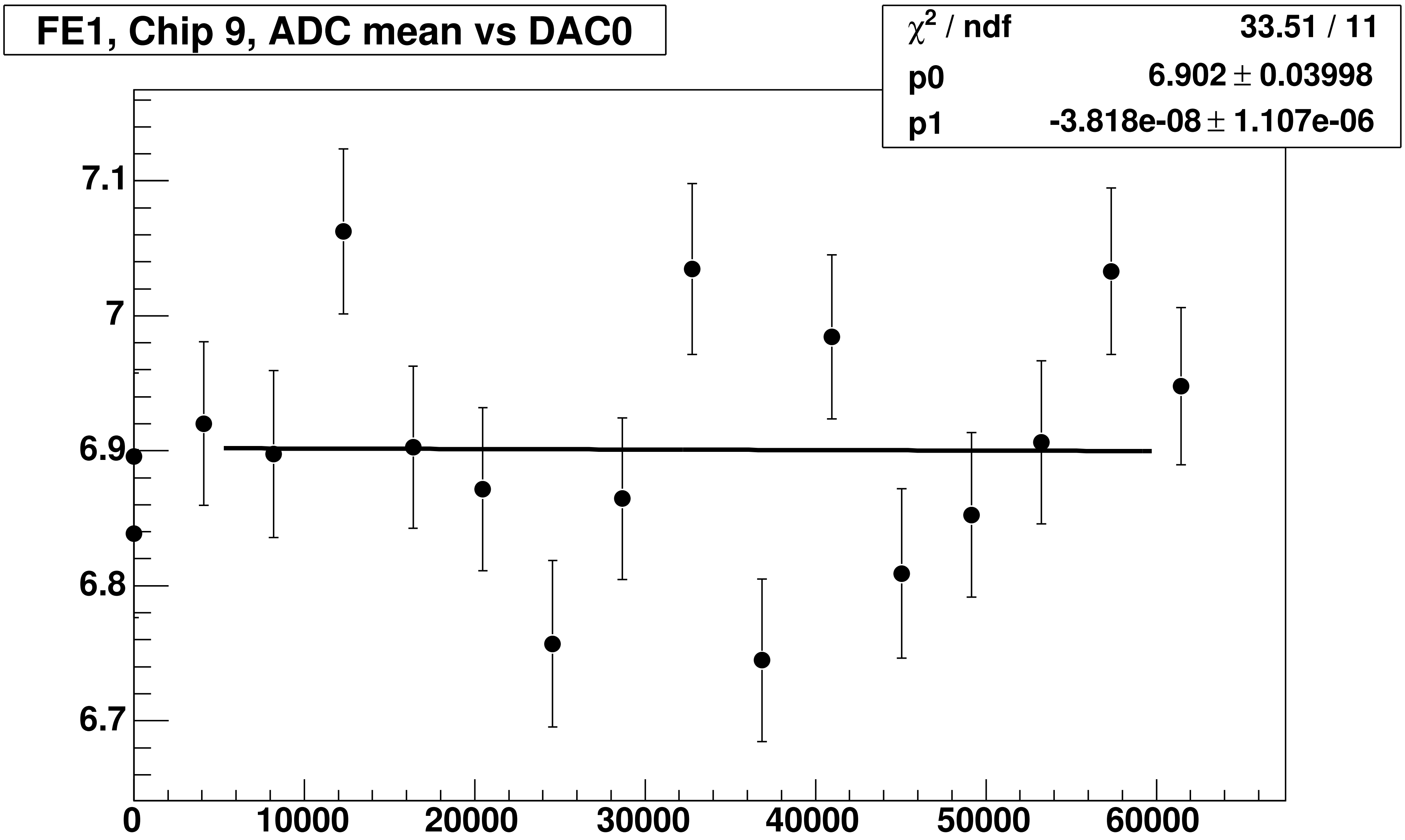
FE1, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

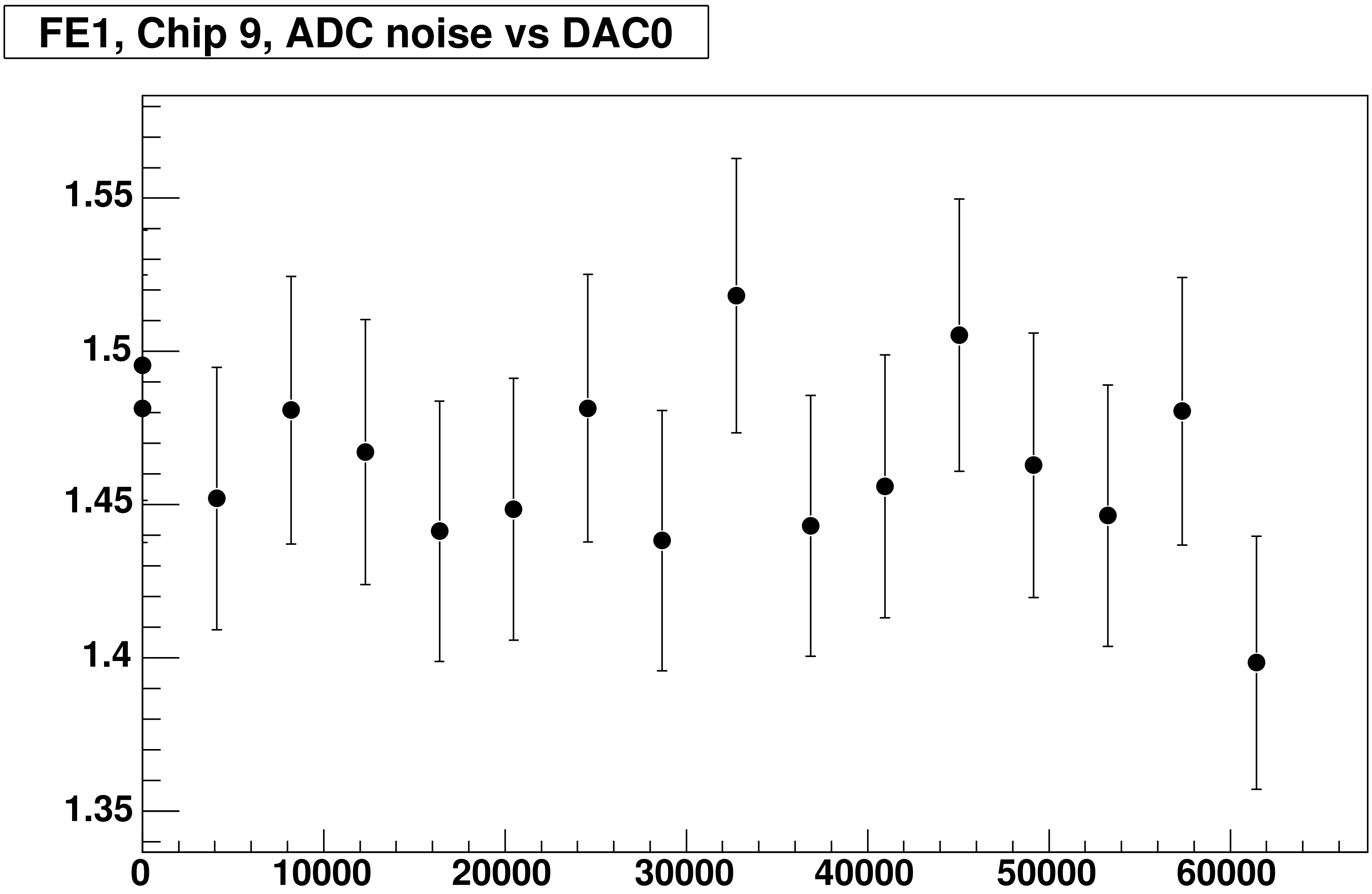

FE1, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1325 / 11
p0 8.485 ± 0.04199
p1 0.4507 ± 1.37e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



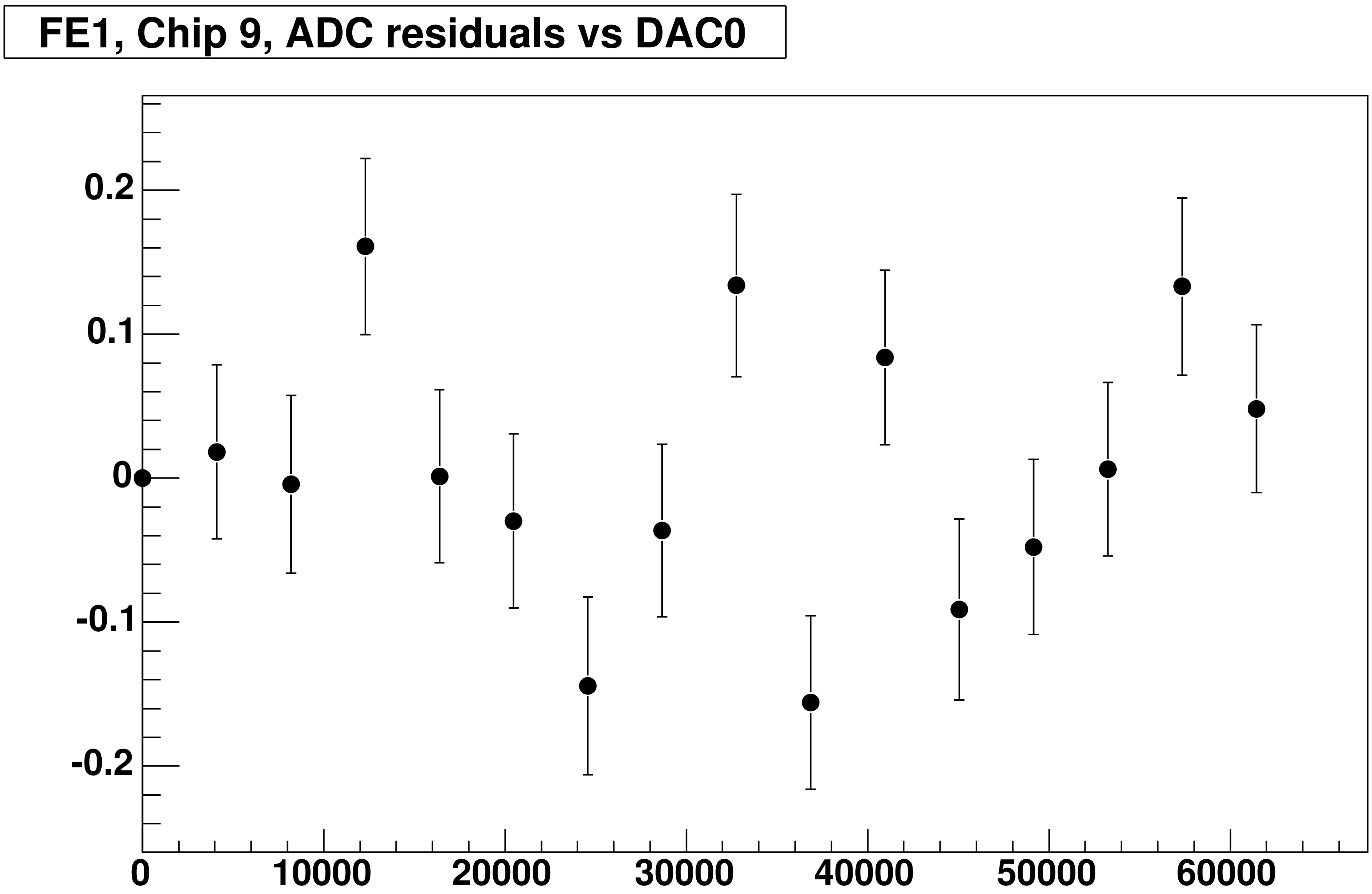
FE1, Chip 8, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE1, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

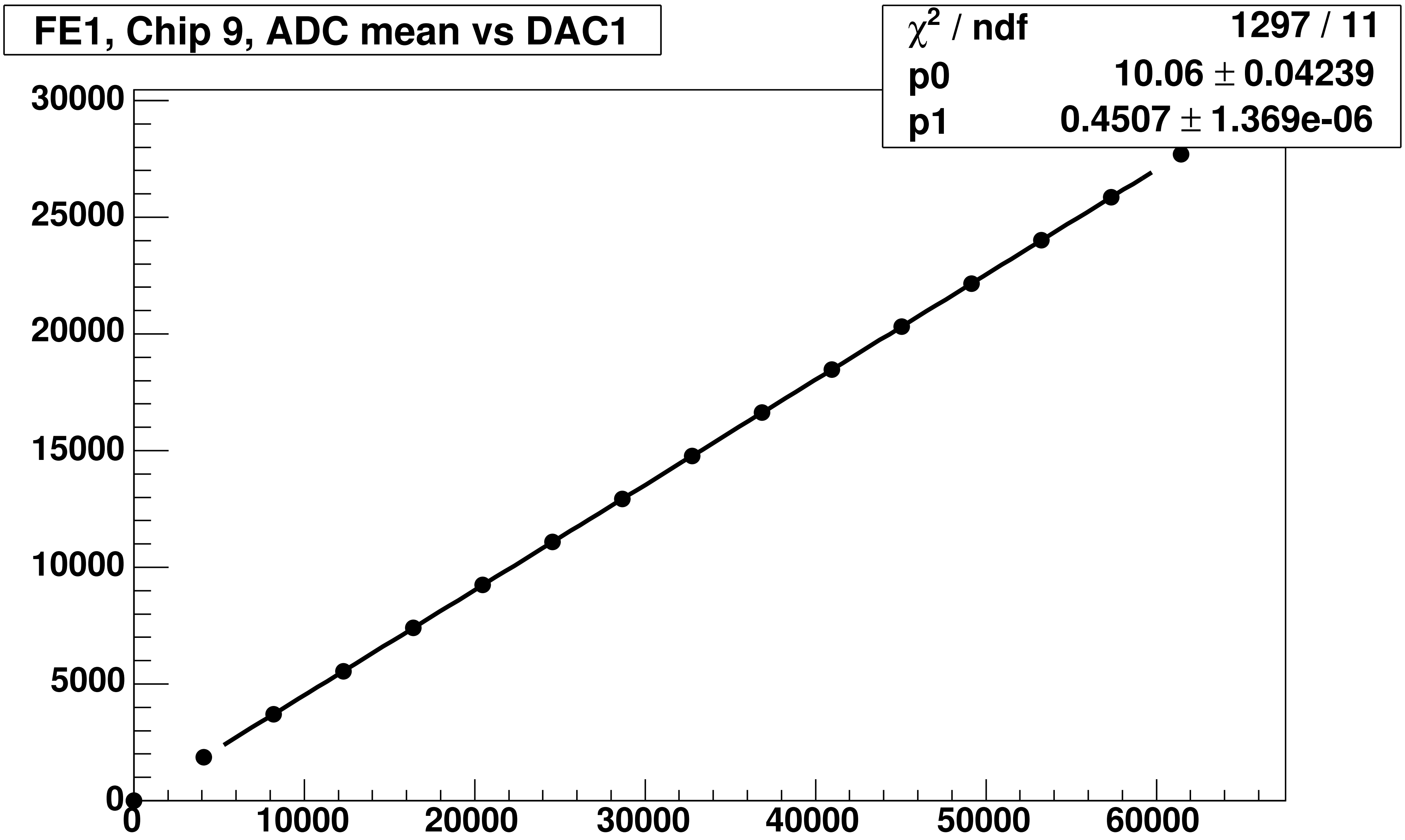

FE1, Chip 9, ADC mean vs DAC0
χ² / ndf 33.51 / 11
p0 6.902 ± 0.03998
p1 -3.818e-08 ± 1.107e-06
7.1
7
6.9
6.8
6.7
0
10000
20000
30000
40000
50000
60000

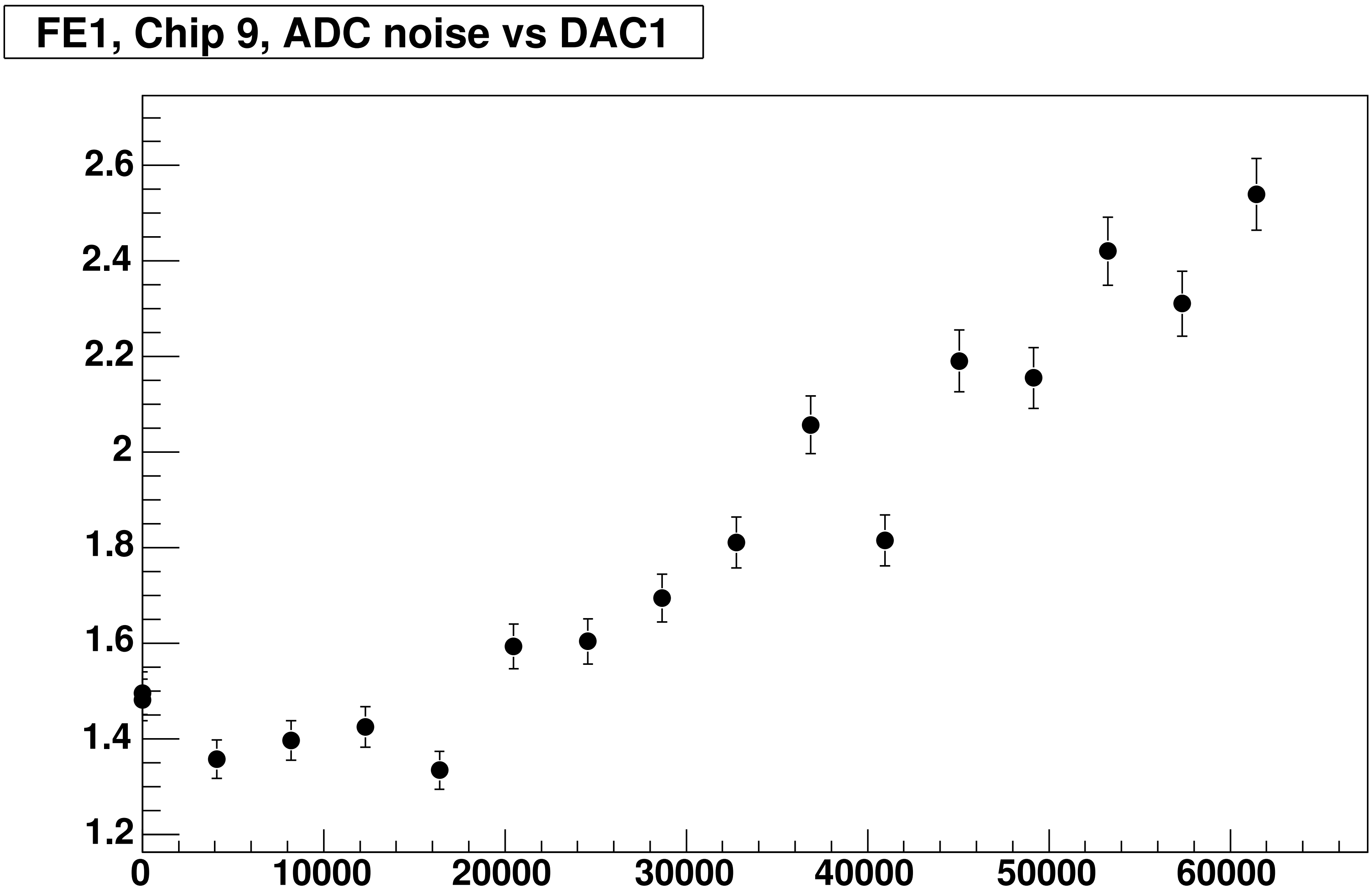


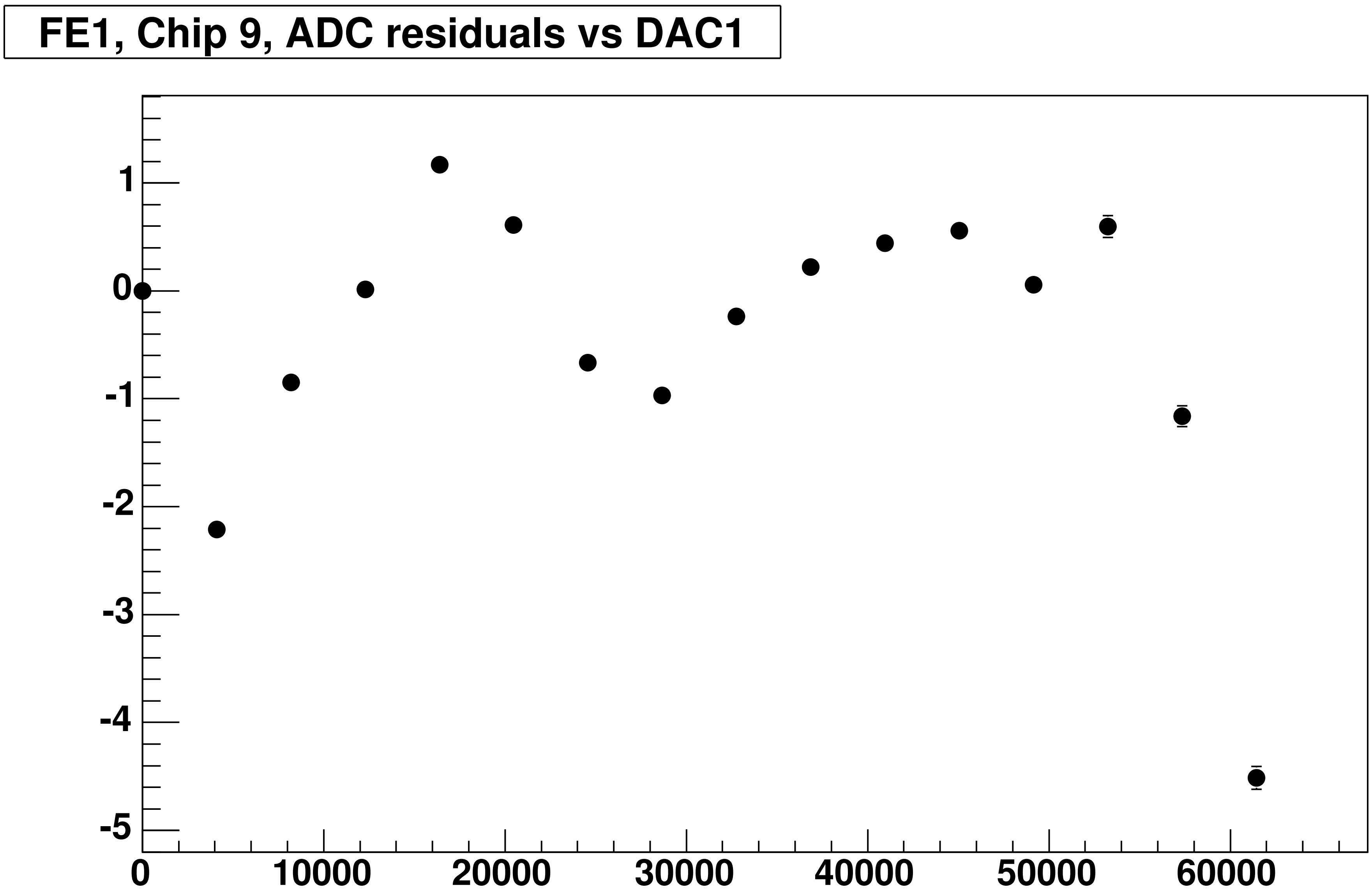
FE1, Chip 9, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

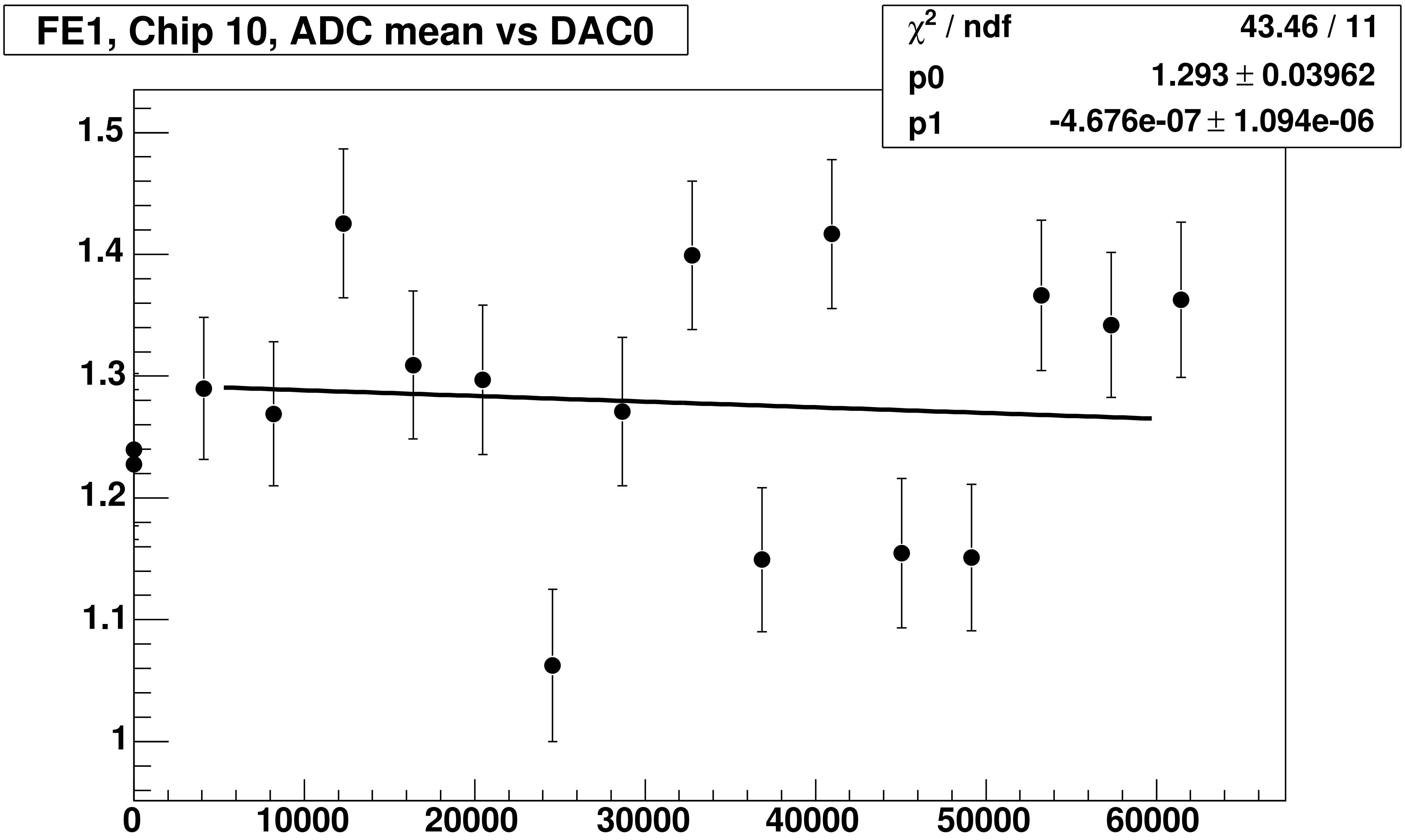


FE1, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

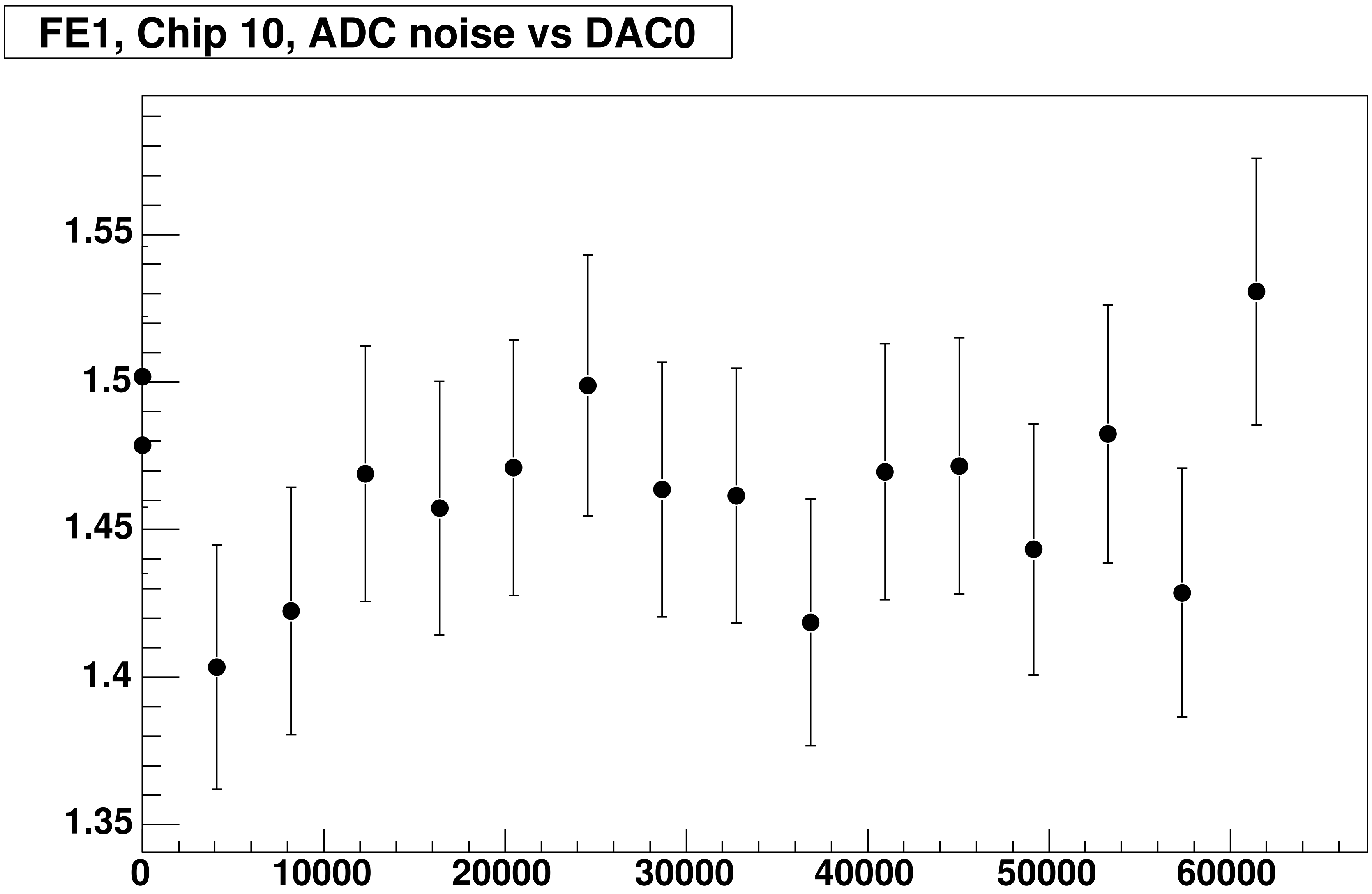

FE1, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1297 / 11
p0 10.06 ± 0.04239
p1 0.4507 ± 1.369e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

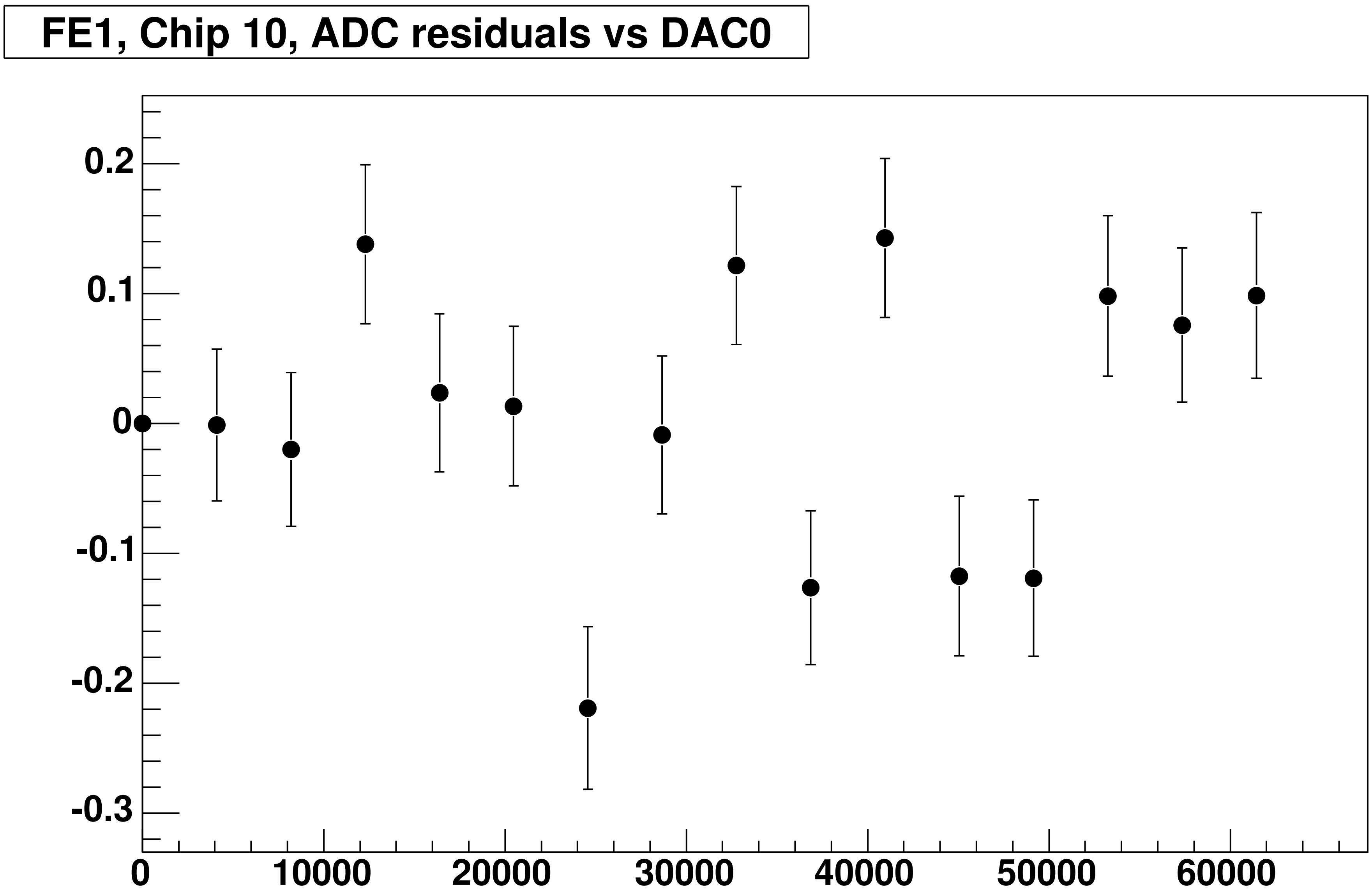

FE1, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

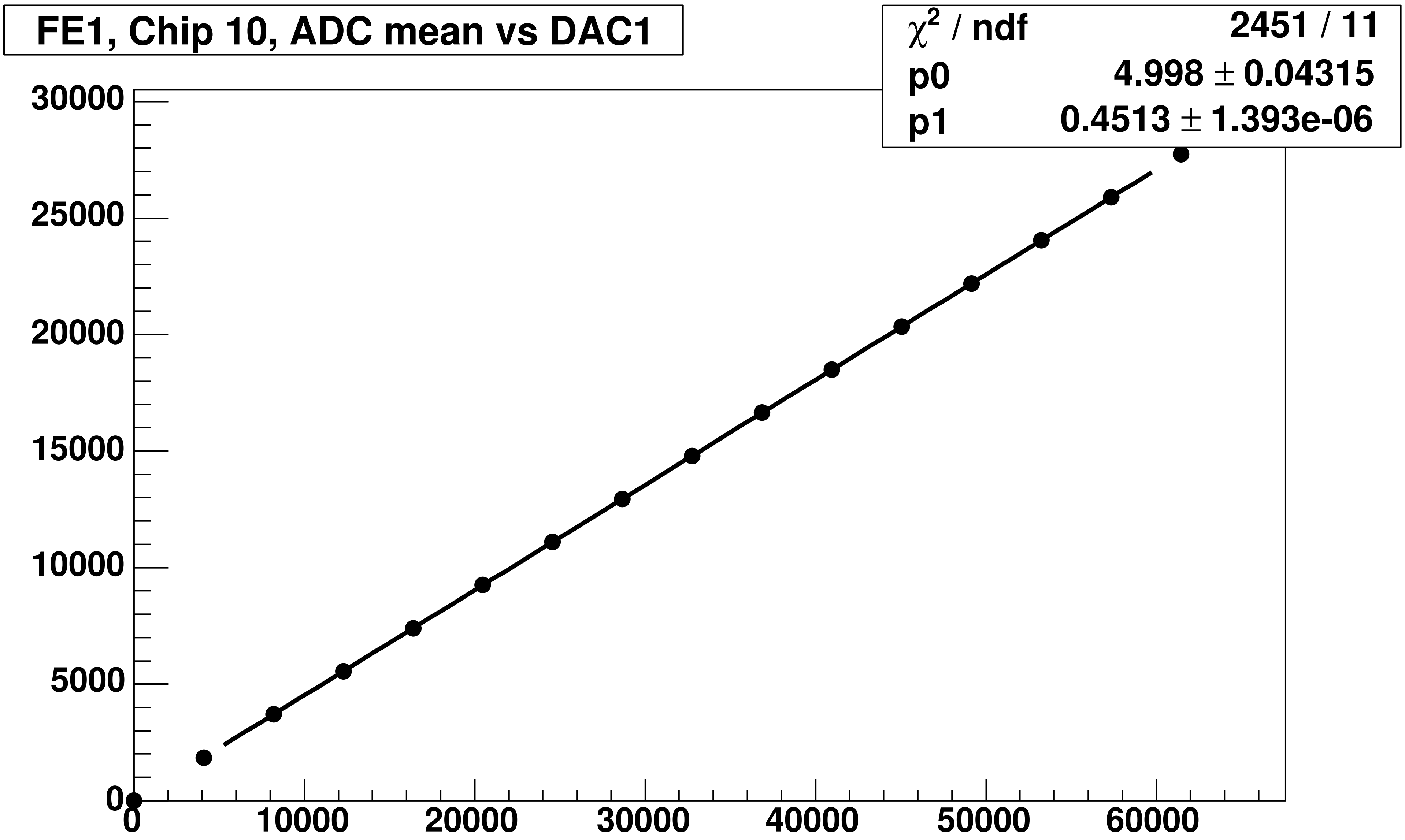

FE1, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



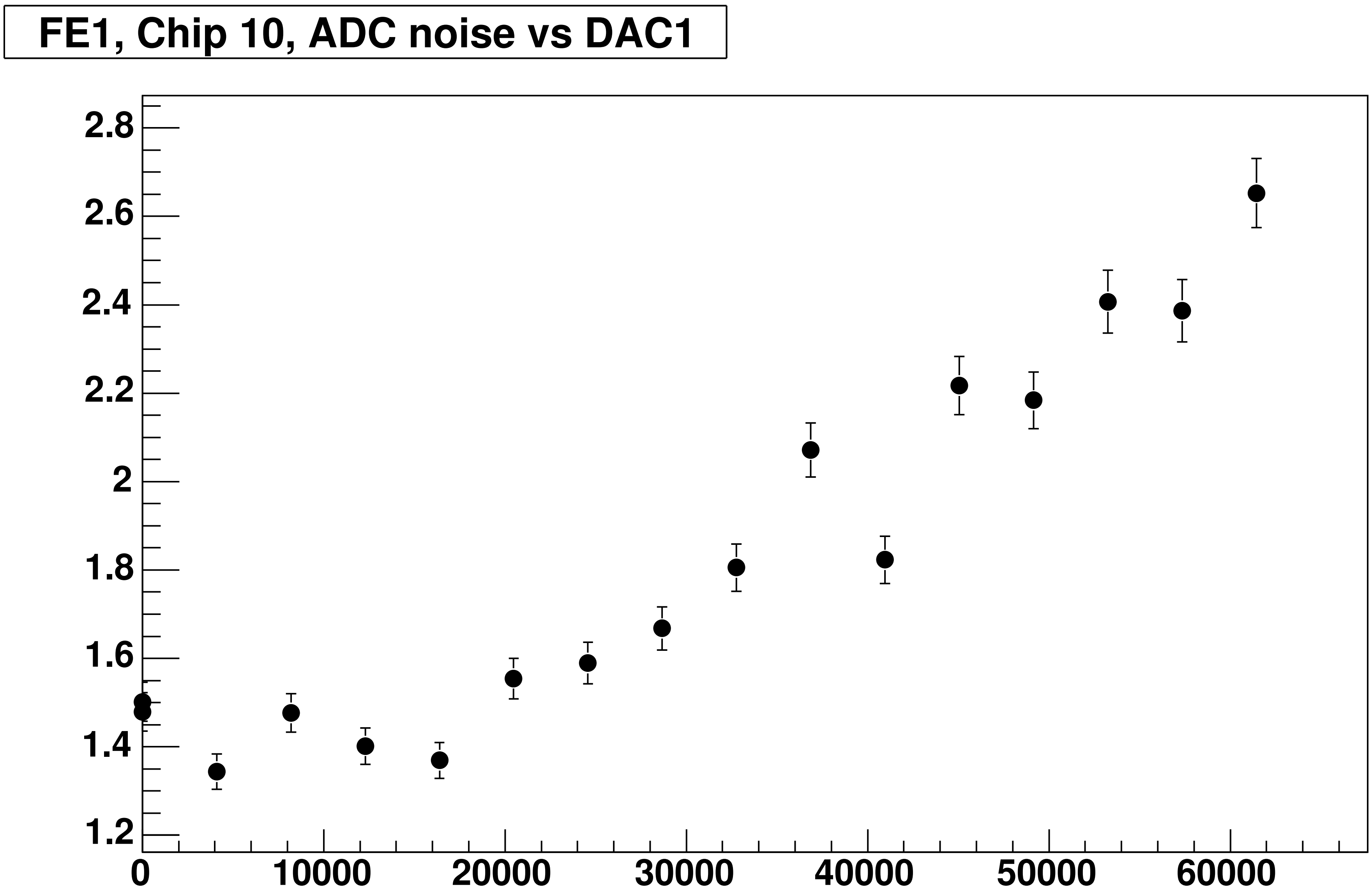
FE1, Chip 10, ADC mean vs DAC0
χ^2 / ndf 43.46 / 11
p0 1.293 ± 0.03962
p1 -4.676e-07 ± 1.094e-06
1.5
1.4
1.3
1.2
1.1
1
0
10000
20000
30000
40000
50000
60000


FE1, Chip 10, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

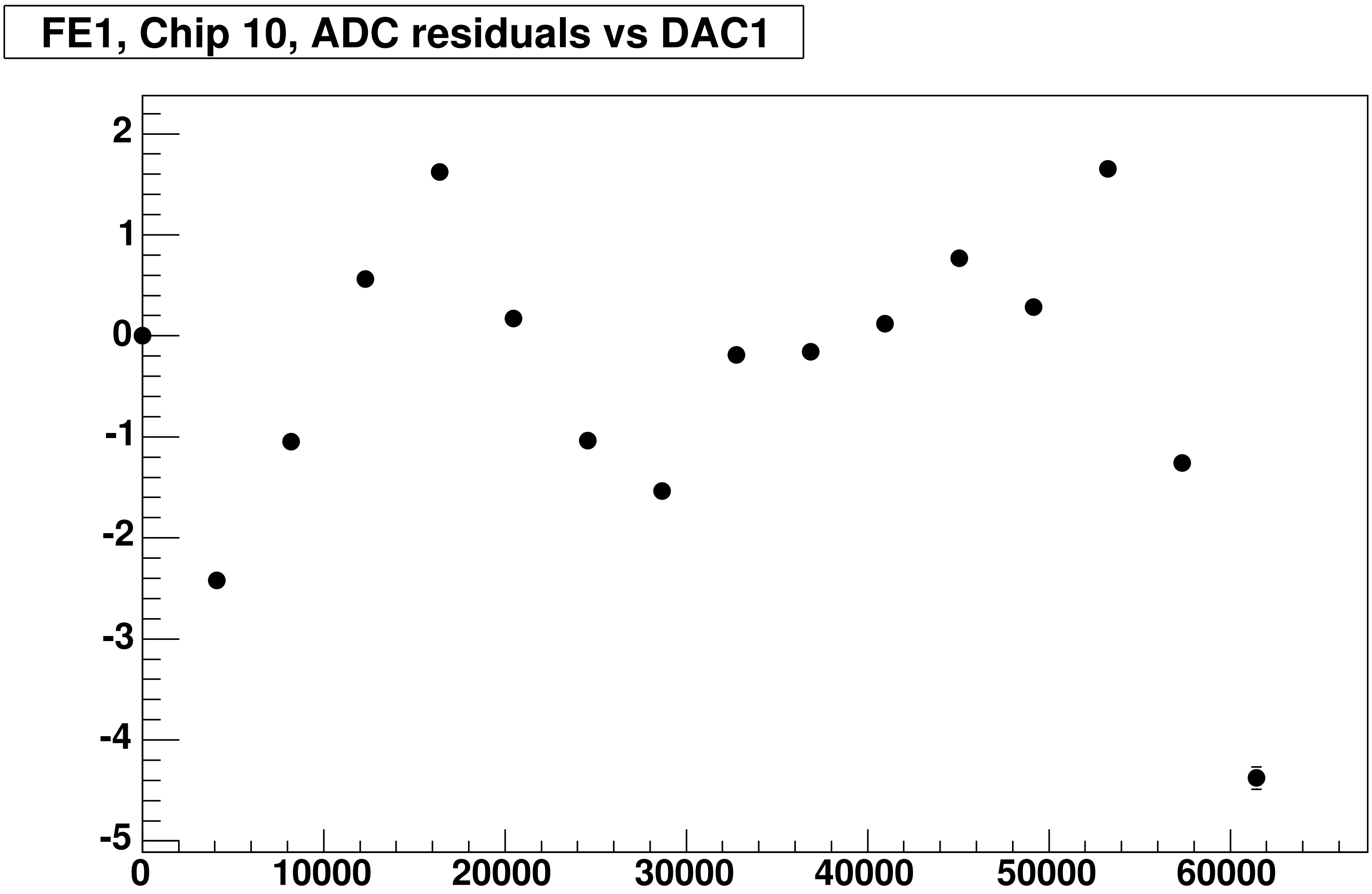

FE1, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

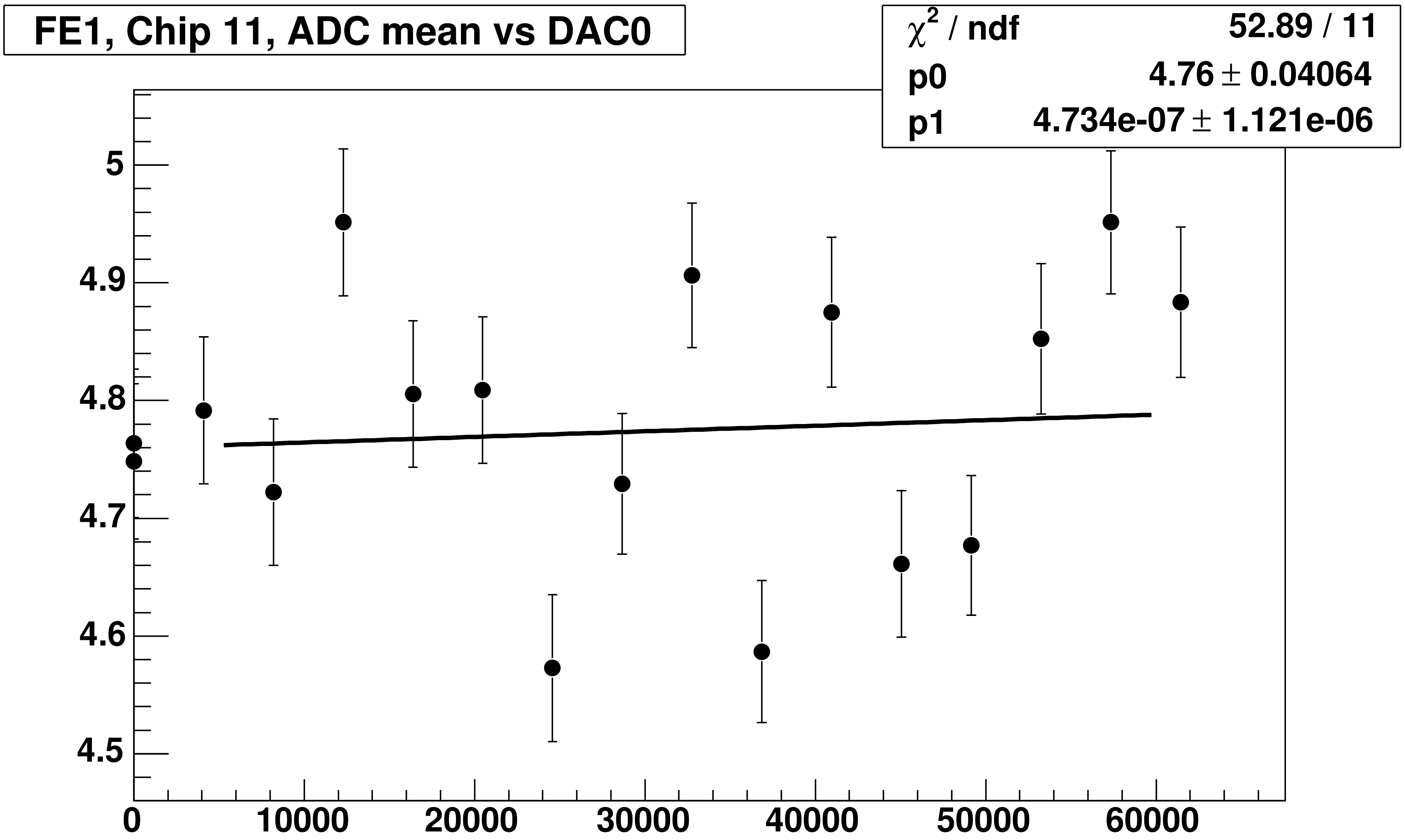


FE1, Chip 10, ADC mean vs DAC1
χ^2 / ndf 2451 / 11
p0 4.998 ± 0.04315
p1 0.4513 ± 1.393e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

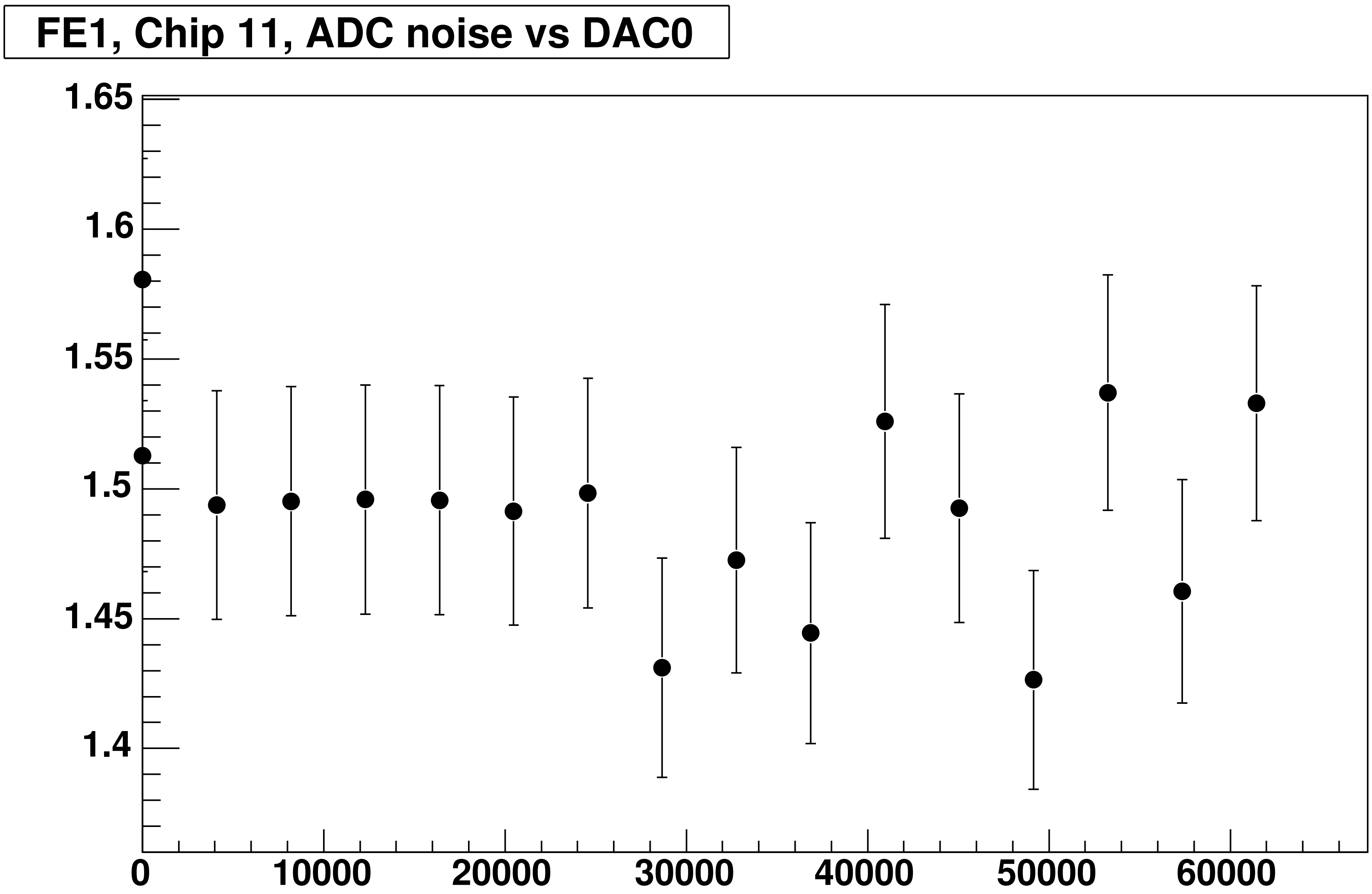


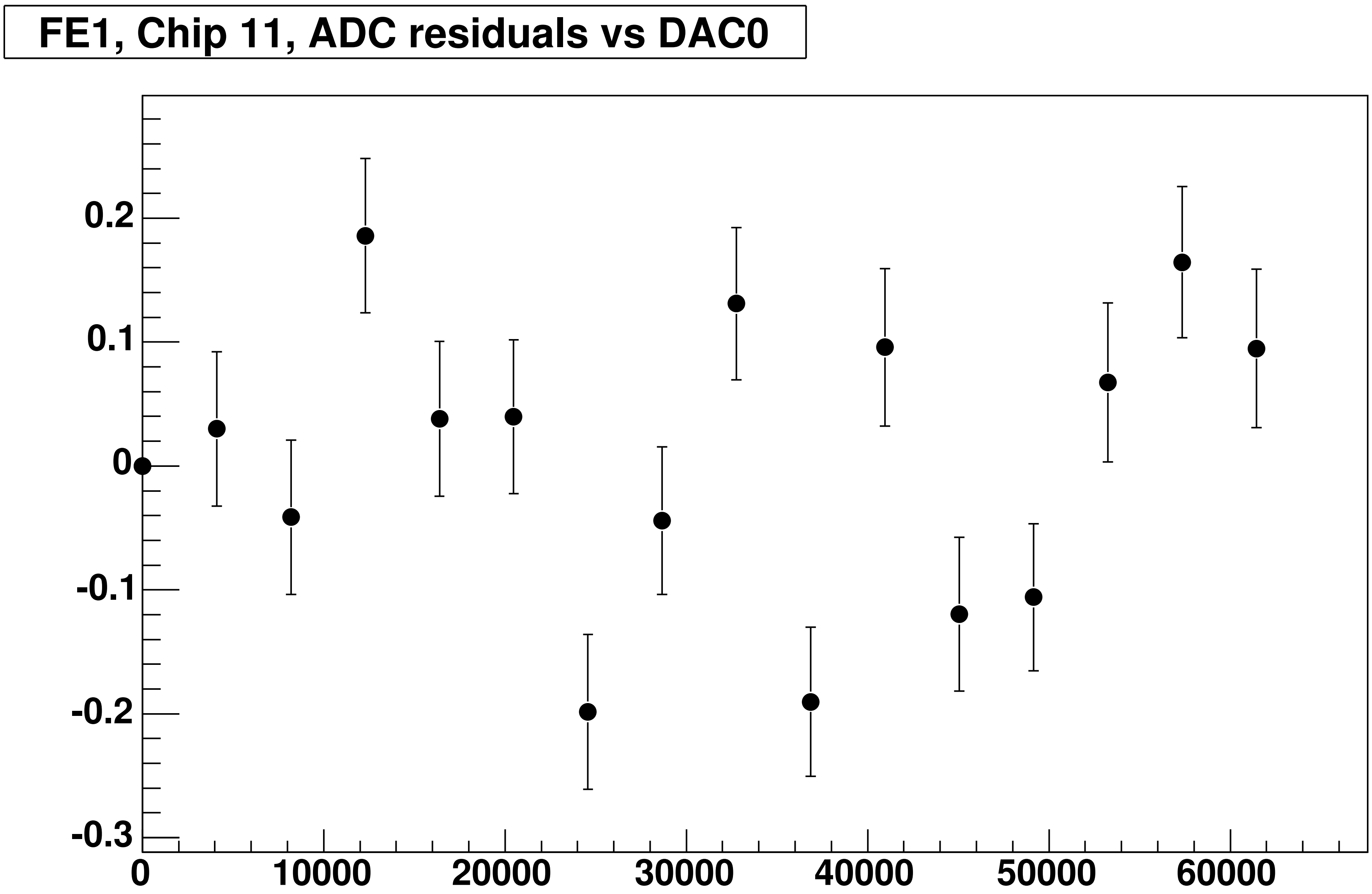
FE1, Chip 10, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

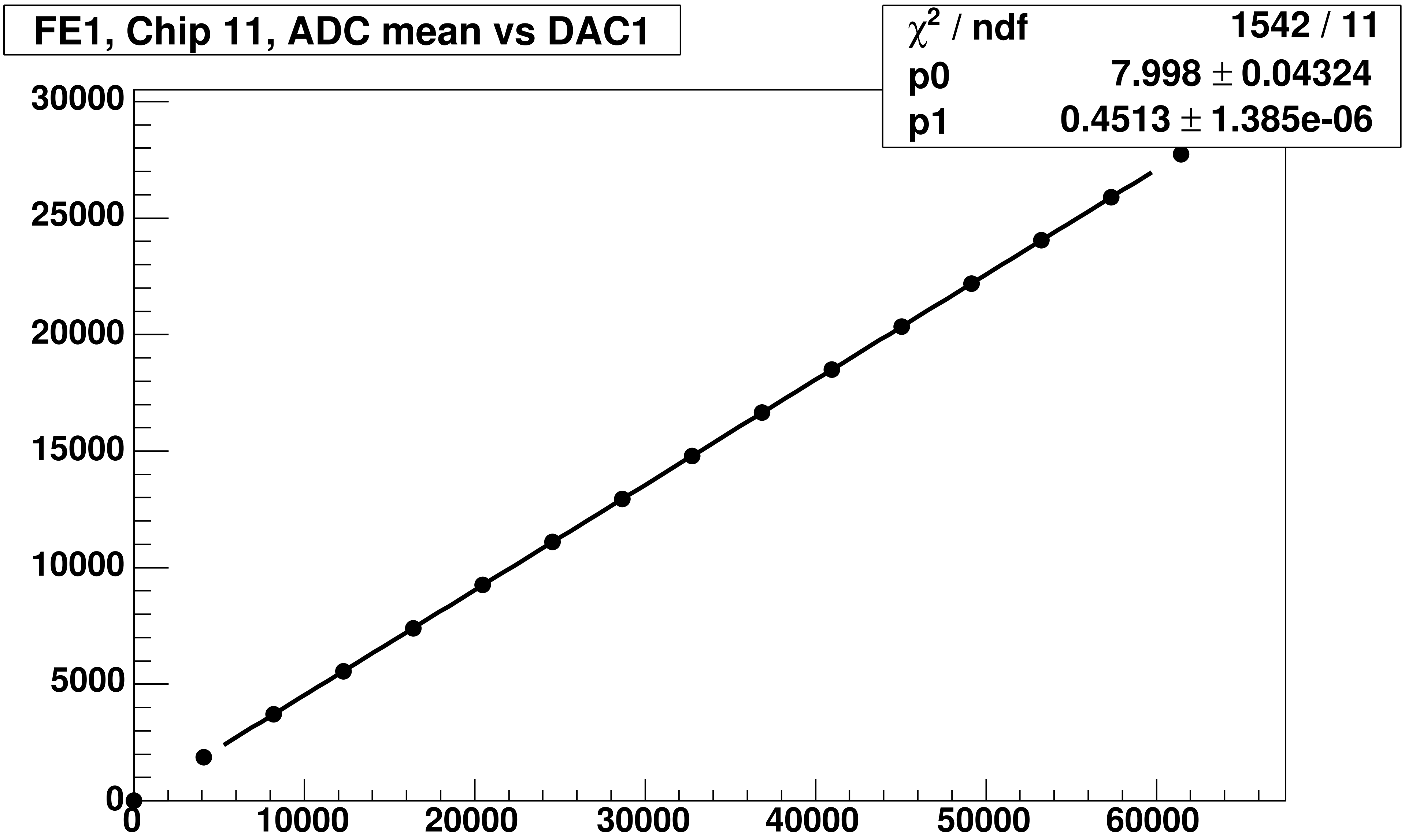

FE1, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



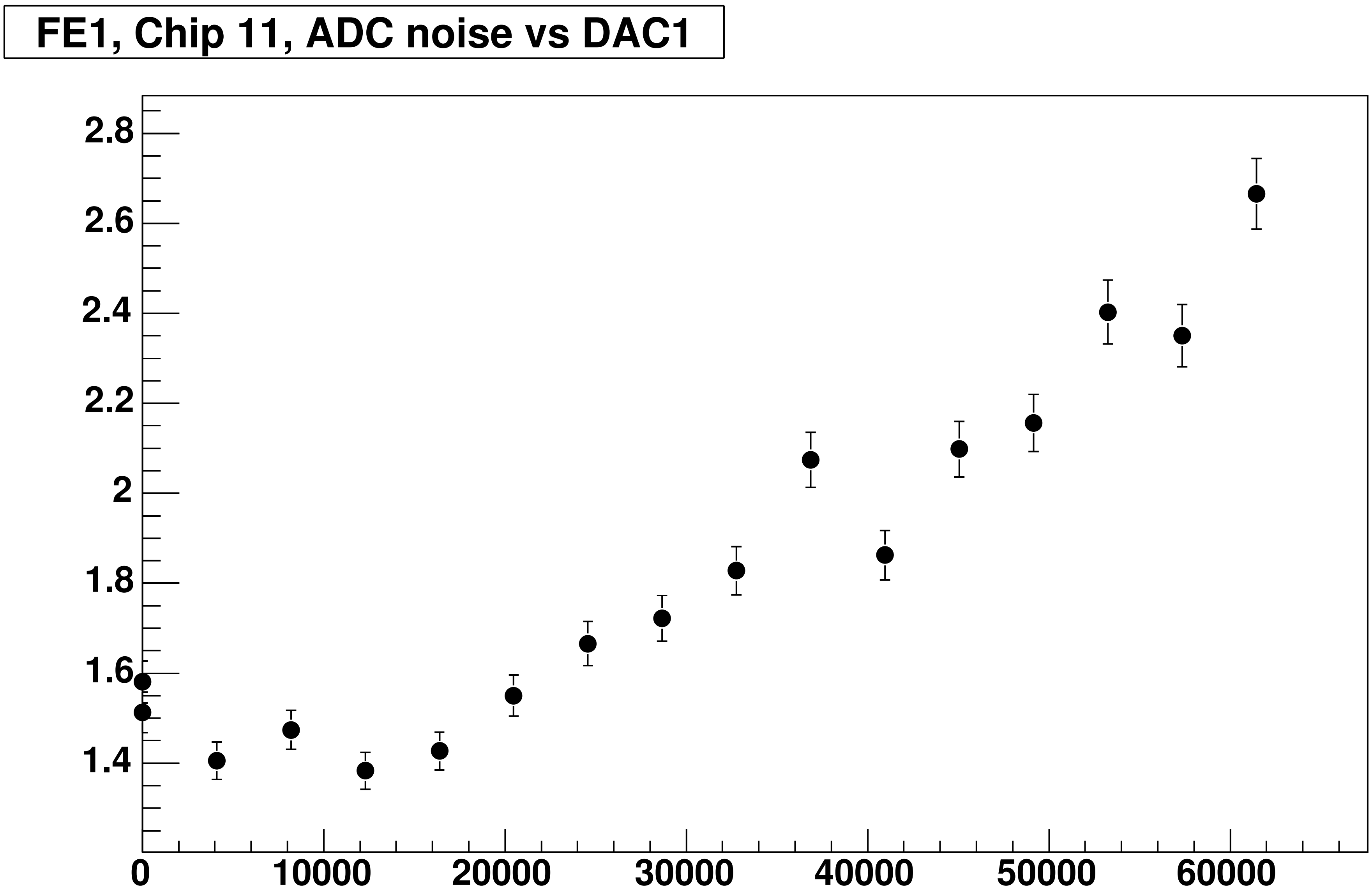
FE1, Chip 11, ADC mean vs DAC0
χ^2 / ndf 52.89 / 11
p0 4.76 ± 0.04064
p1 4.734e-07 ± 1.121e-06
5
4.9
4.8
4.7
4.6
4.5
0
10000
20000
30000
40000
50000
60000

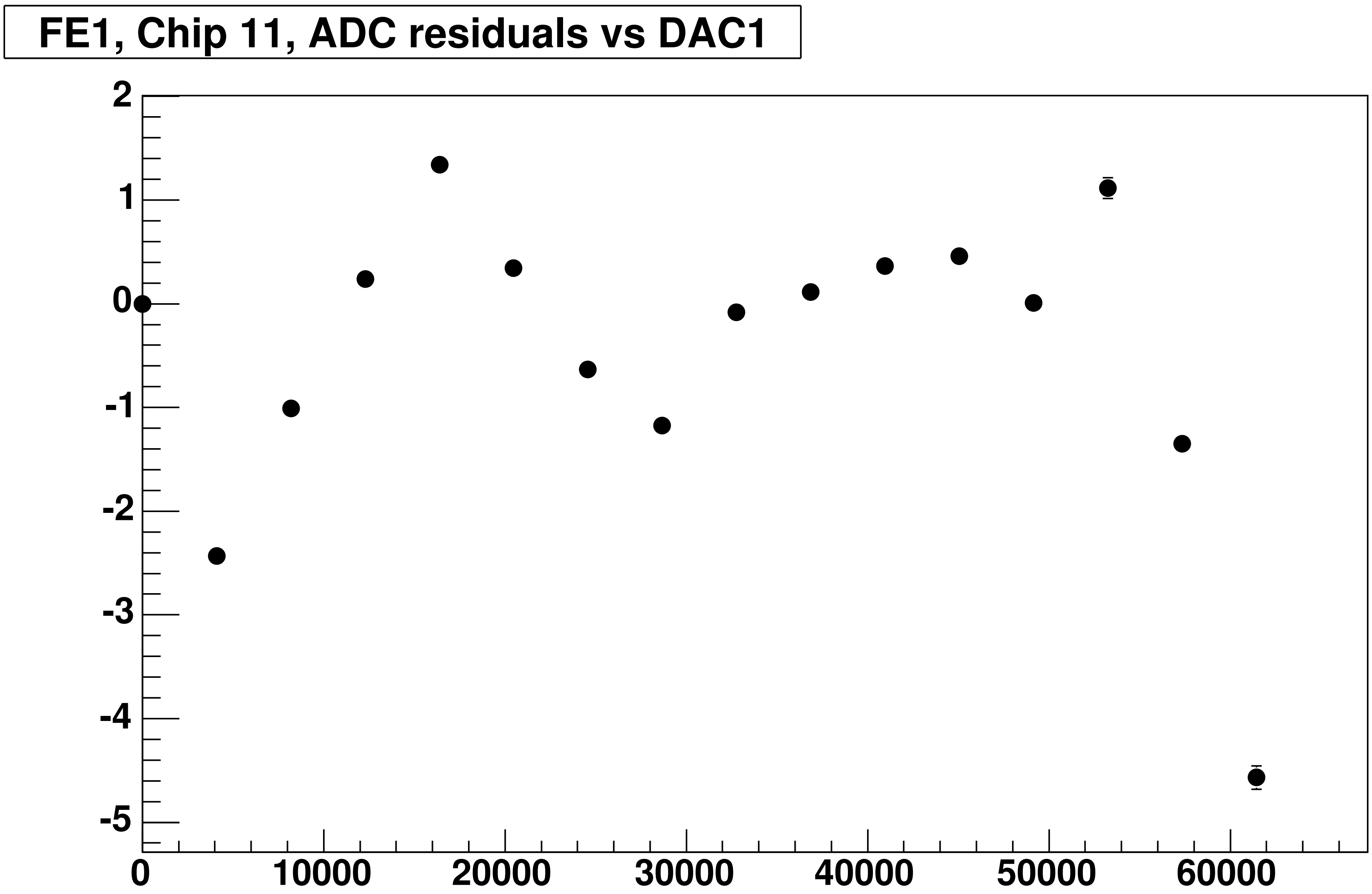

FE1, Chip 11, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

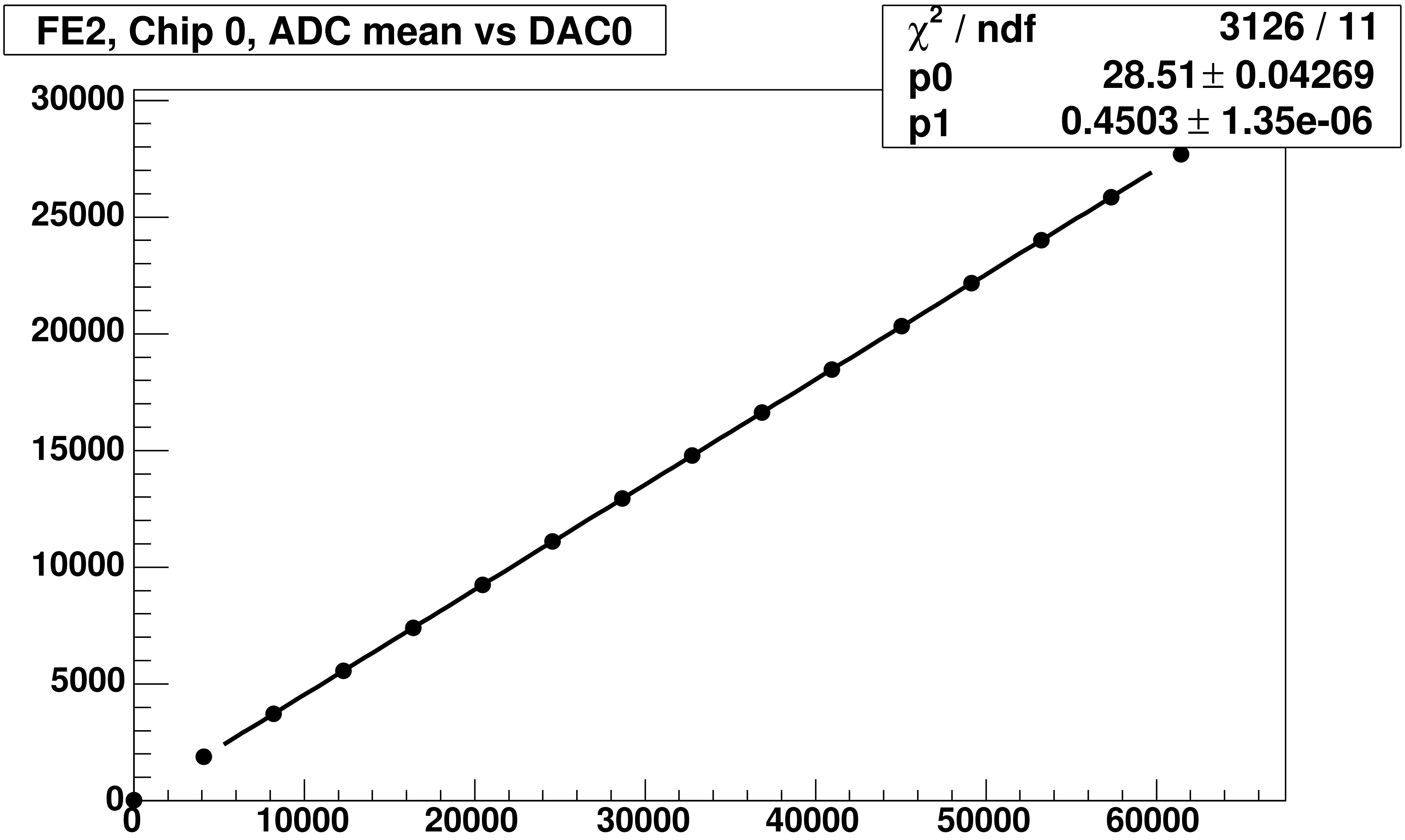

FE1, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



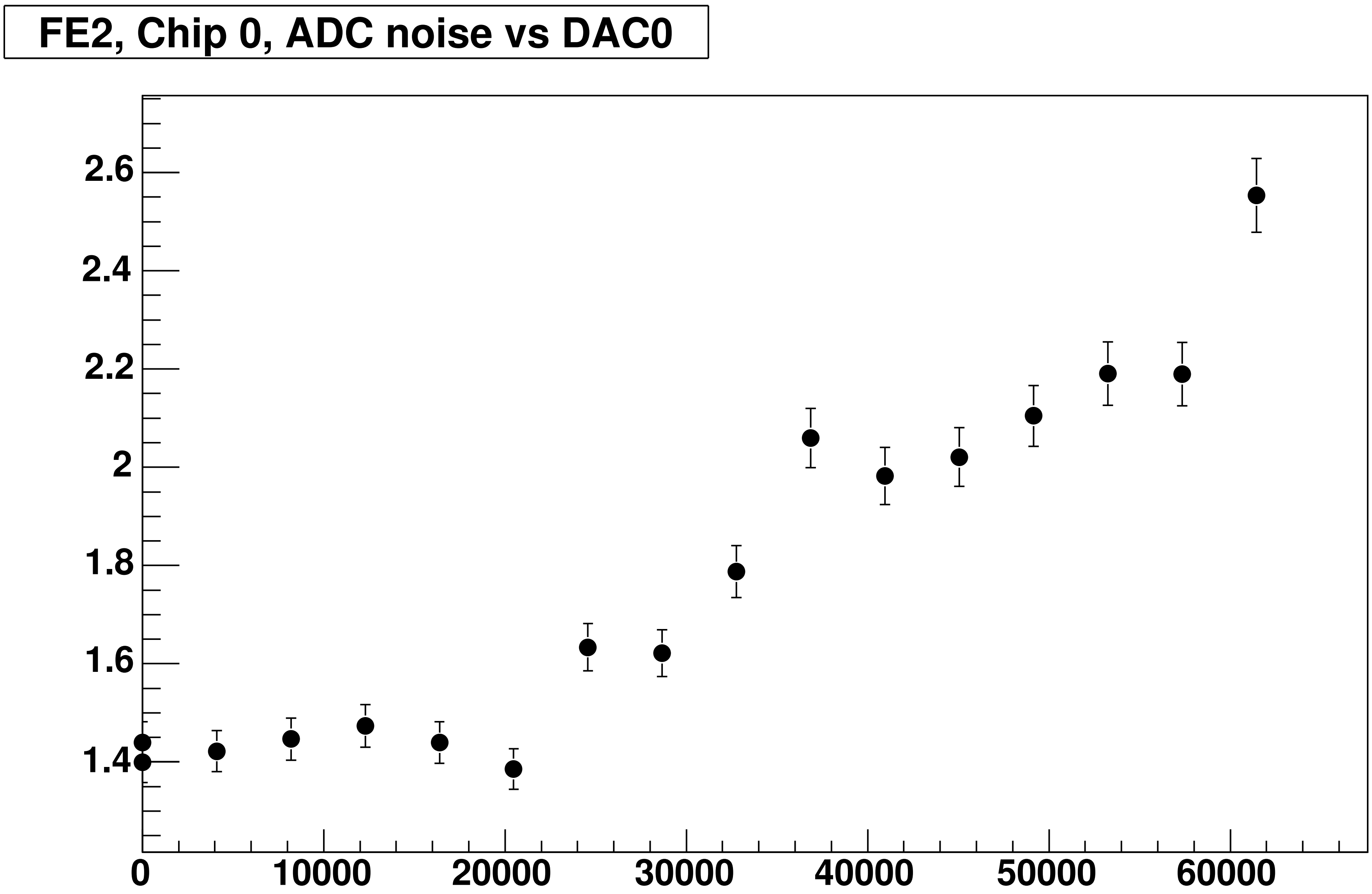
FE1, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1542 / 11
p0 7.998 ± 0.04324
p1 0.4513 ± 1.385e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

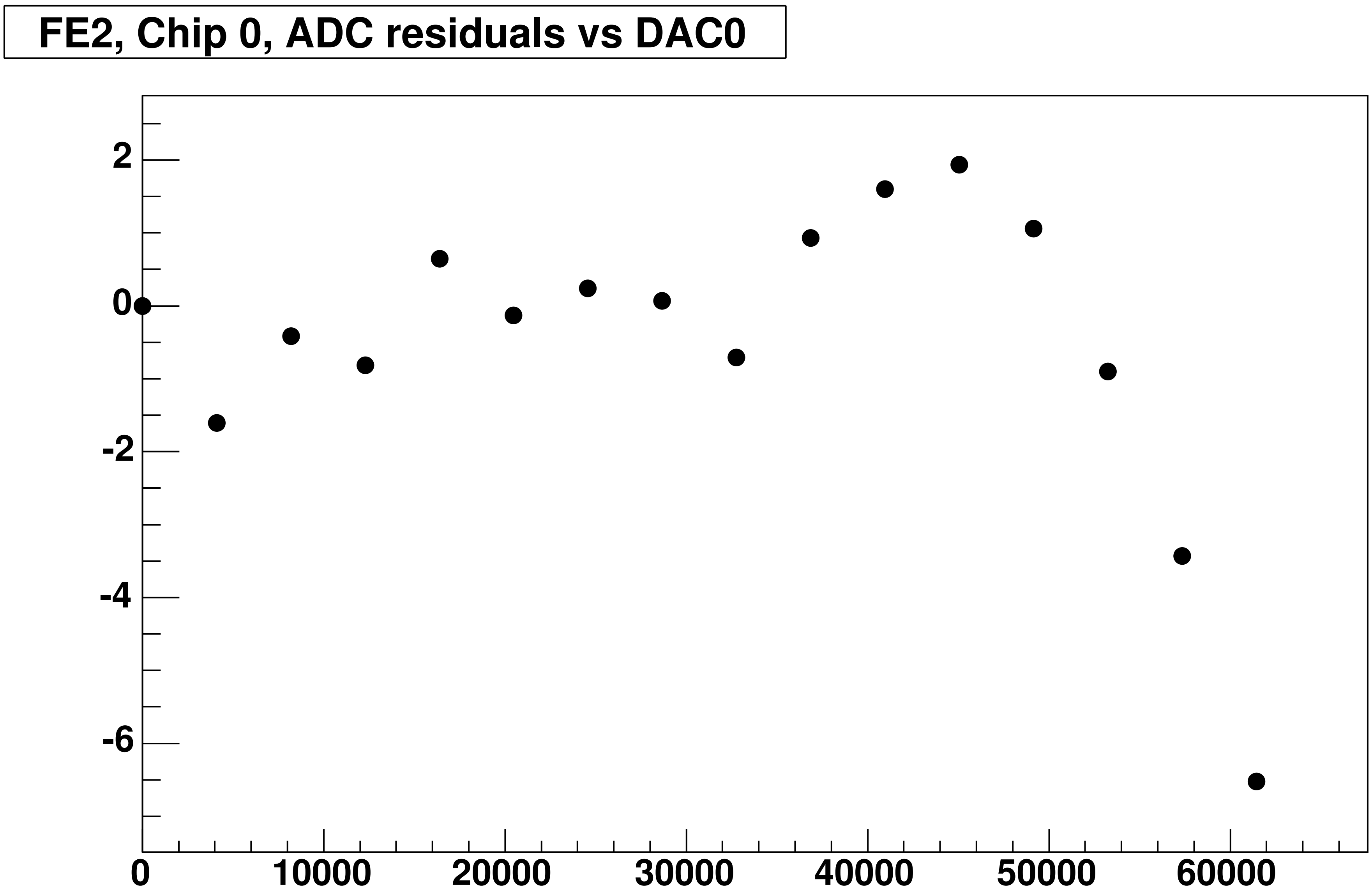

FE1, Chip 11, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

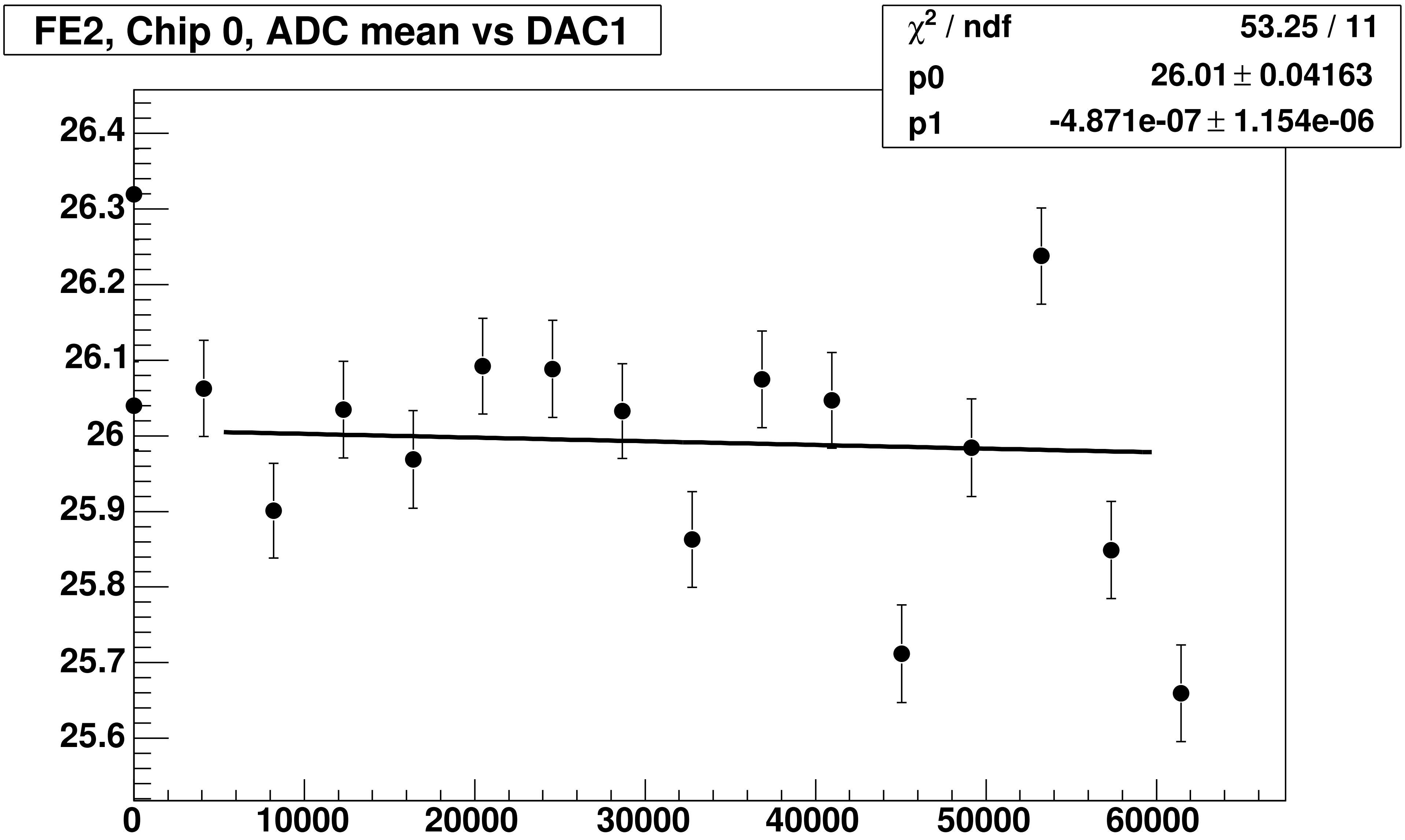

FE1, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

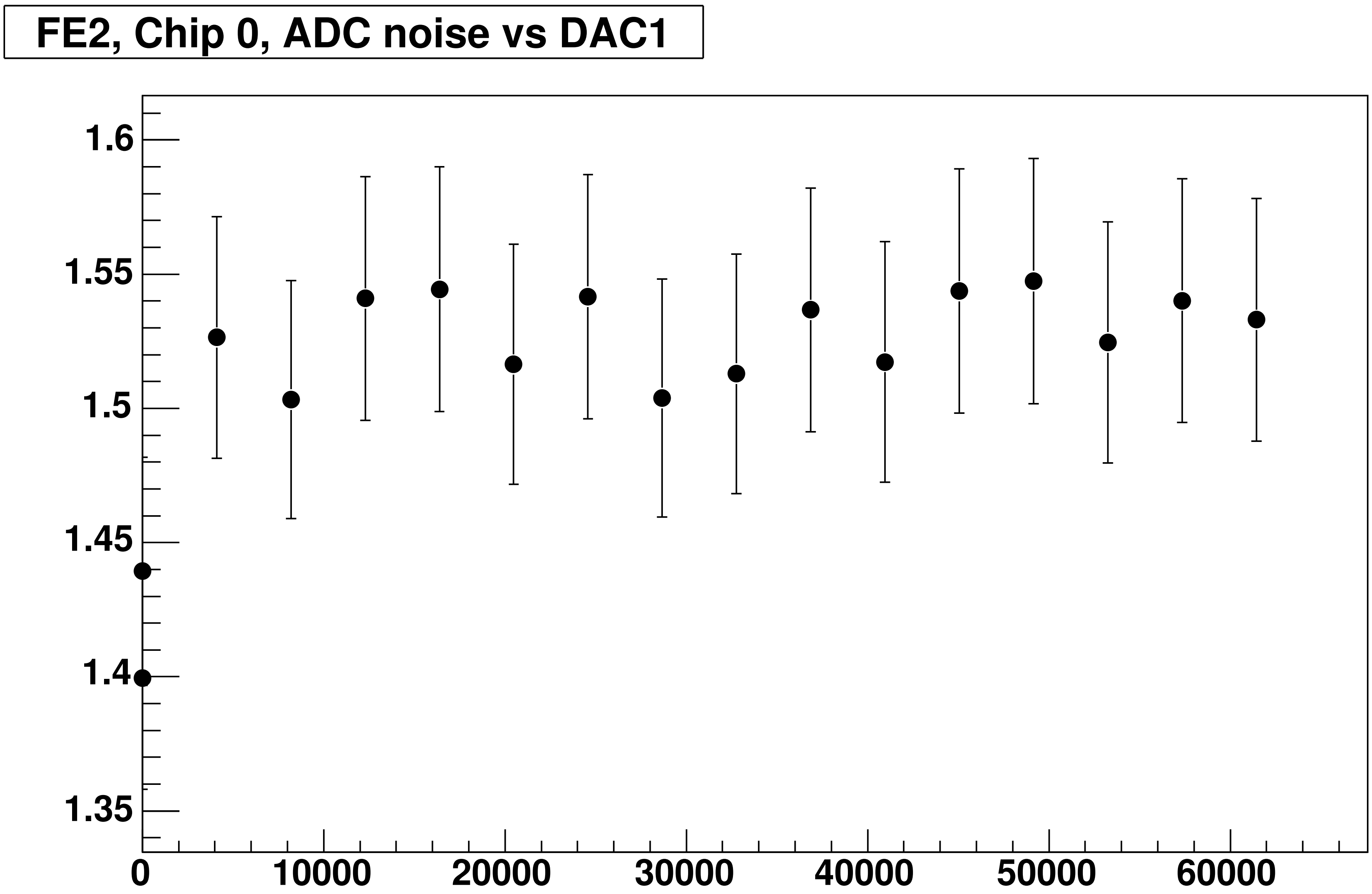


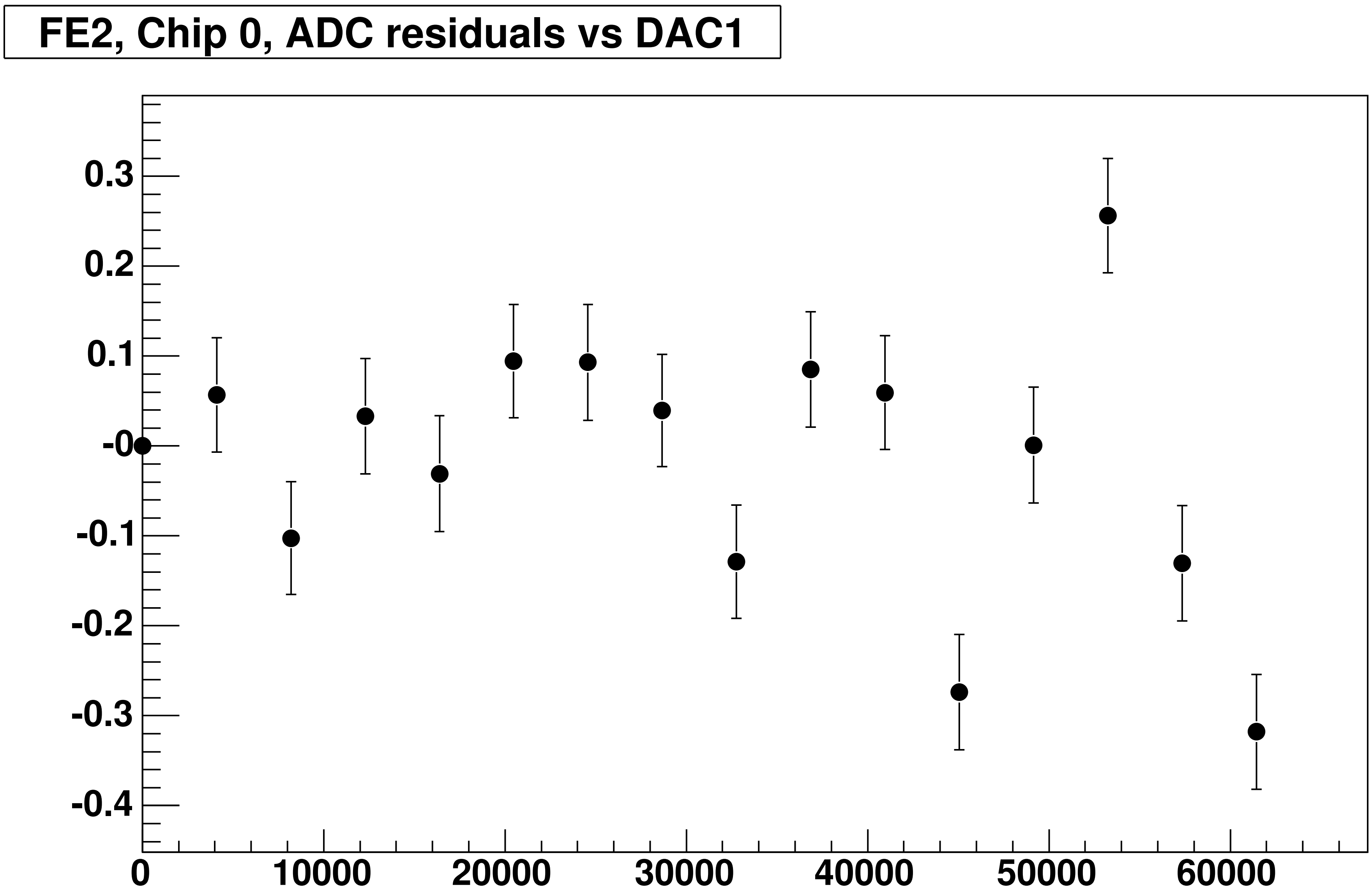
FE2, Chip 0, ADC mean vs DAC0
χ^2 / ndf 3126 / 11
p0 28.51 ± 0.04269
p1 0.4503 ± 1.35e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

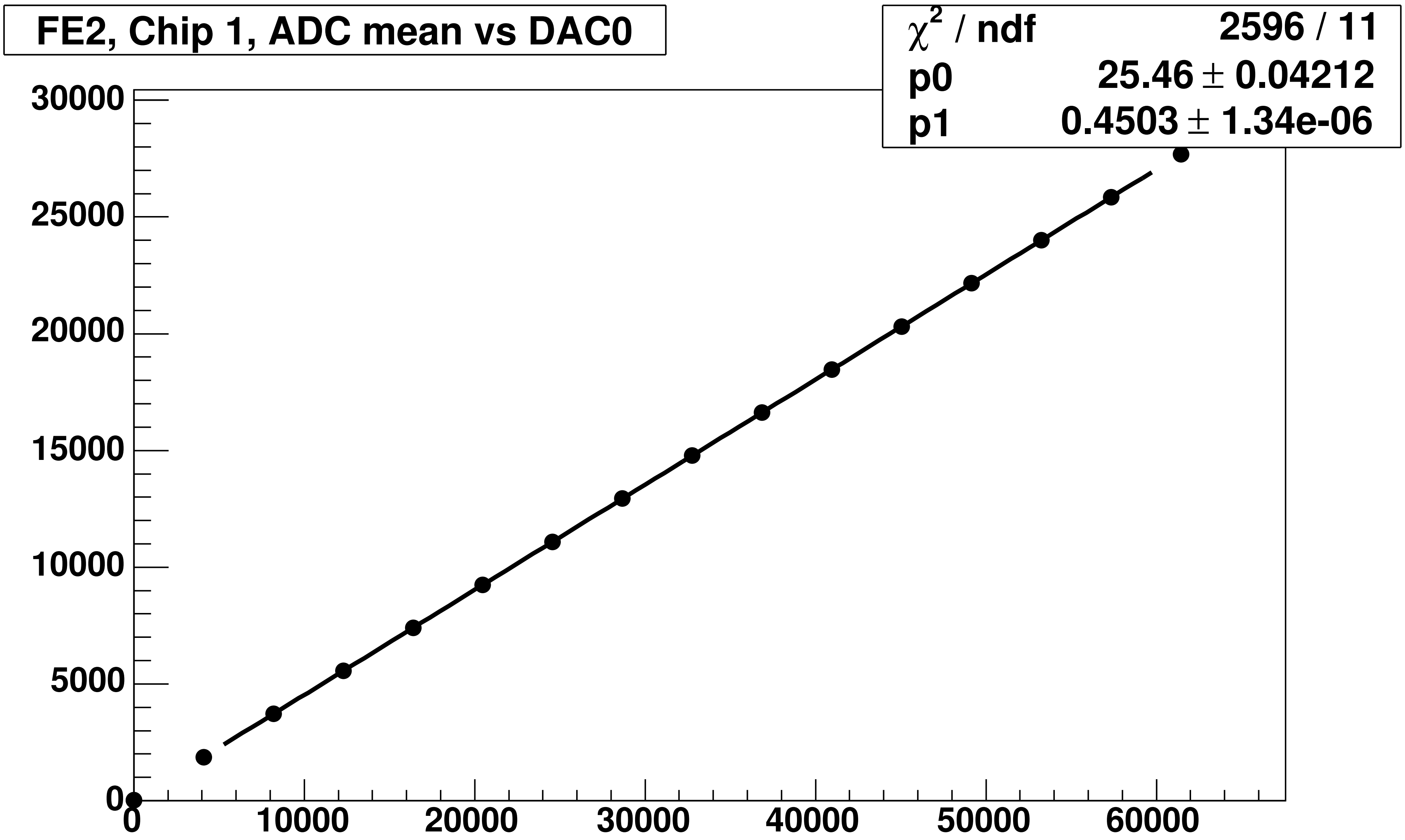

FE2, Chip 0, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE2, Chip 0, ADC residuals vs DAC0
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

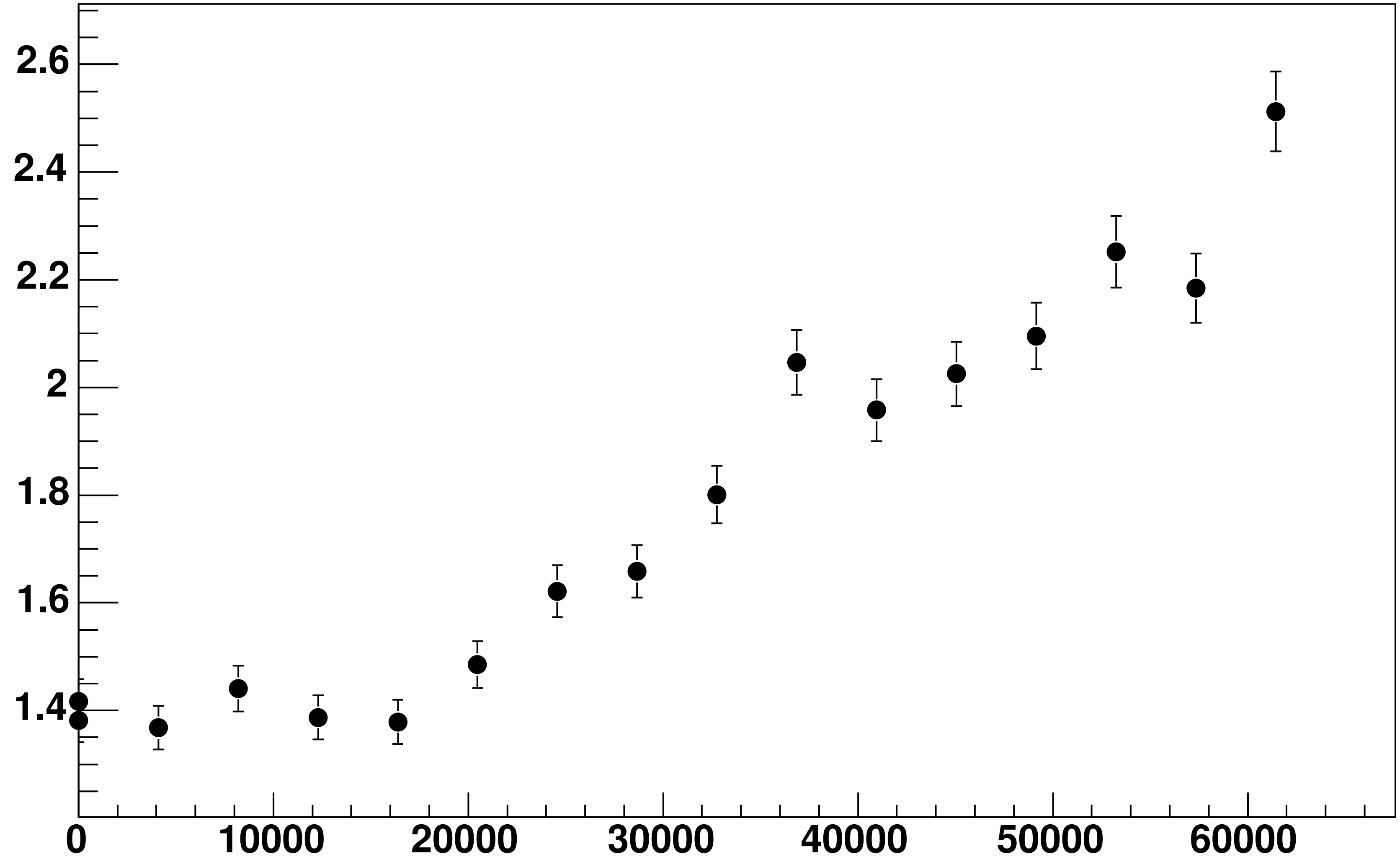

FE2, Chip 0, ADC mean vs DAC1
χ^2 / ndf 53.25 / 11
p0 26.01 ± 0.04163
p1 -4.871e-07 ± 1.154e-06
26.4
26.3
26.2
26.1
26
25.9
25.8
25.7
25.6
0
10000
20000
30000
40000
50000
60000

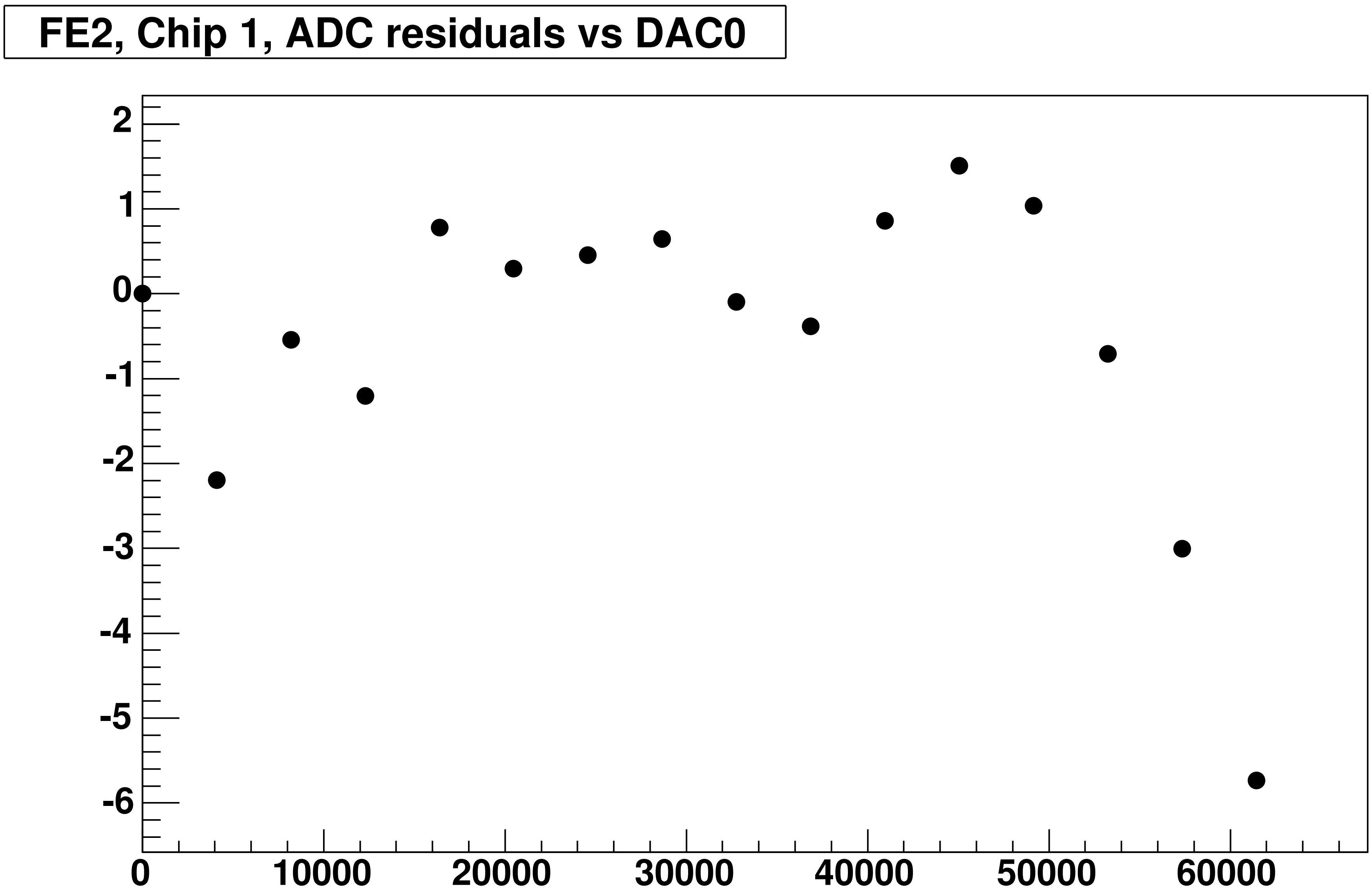

FE2, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

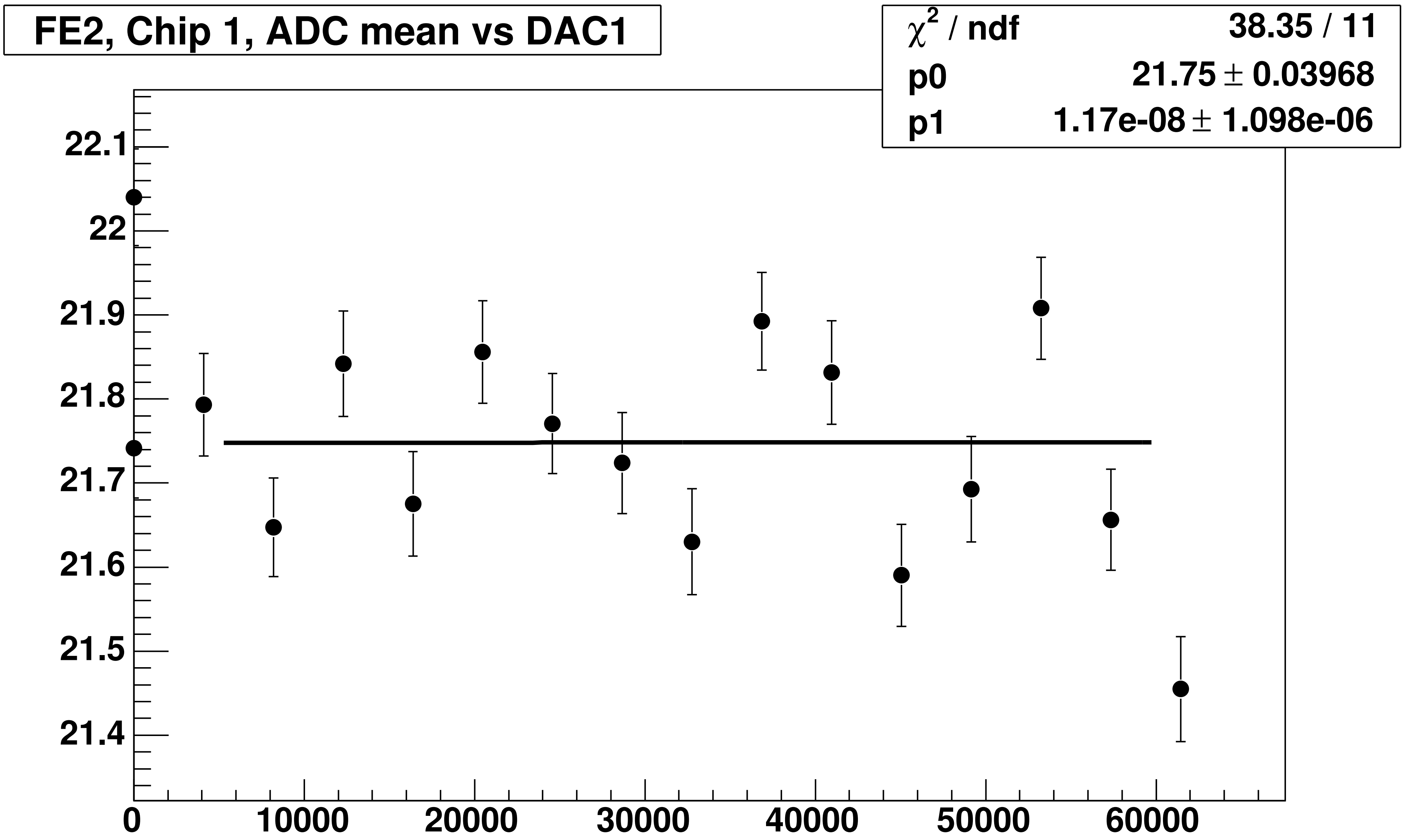

FE2, Chip 0, ADC residuals vs DAC1
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000


FE2, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2596 / 11
p0 25.46 ± 0.04212
p1 0.4503 ± 1.34e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

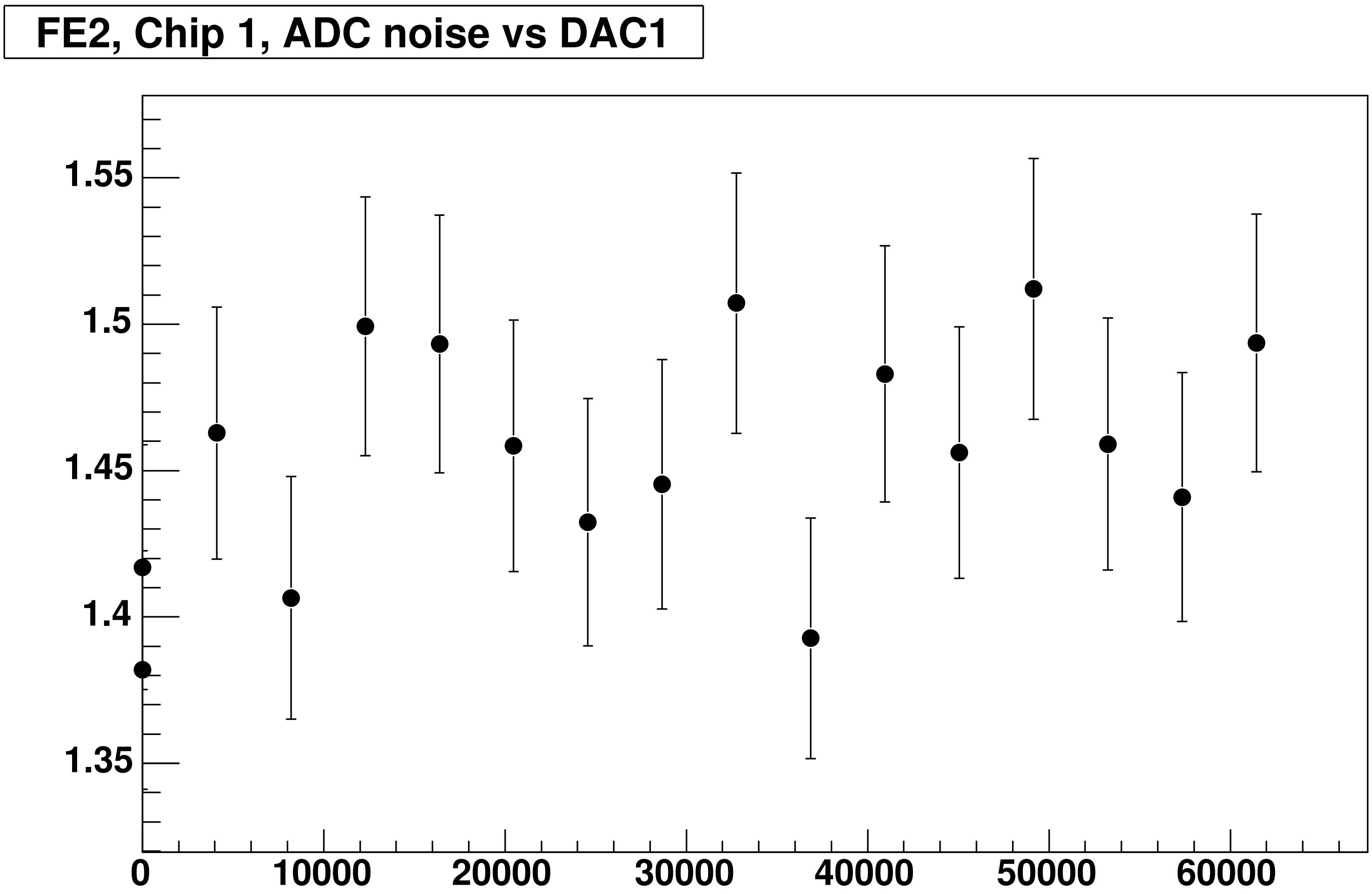
FE2, Chip 1, ADC noise vs DAC0



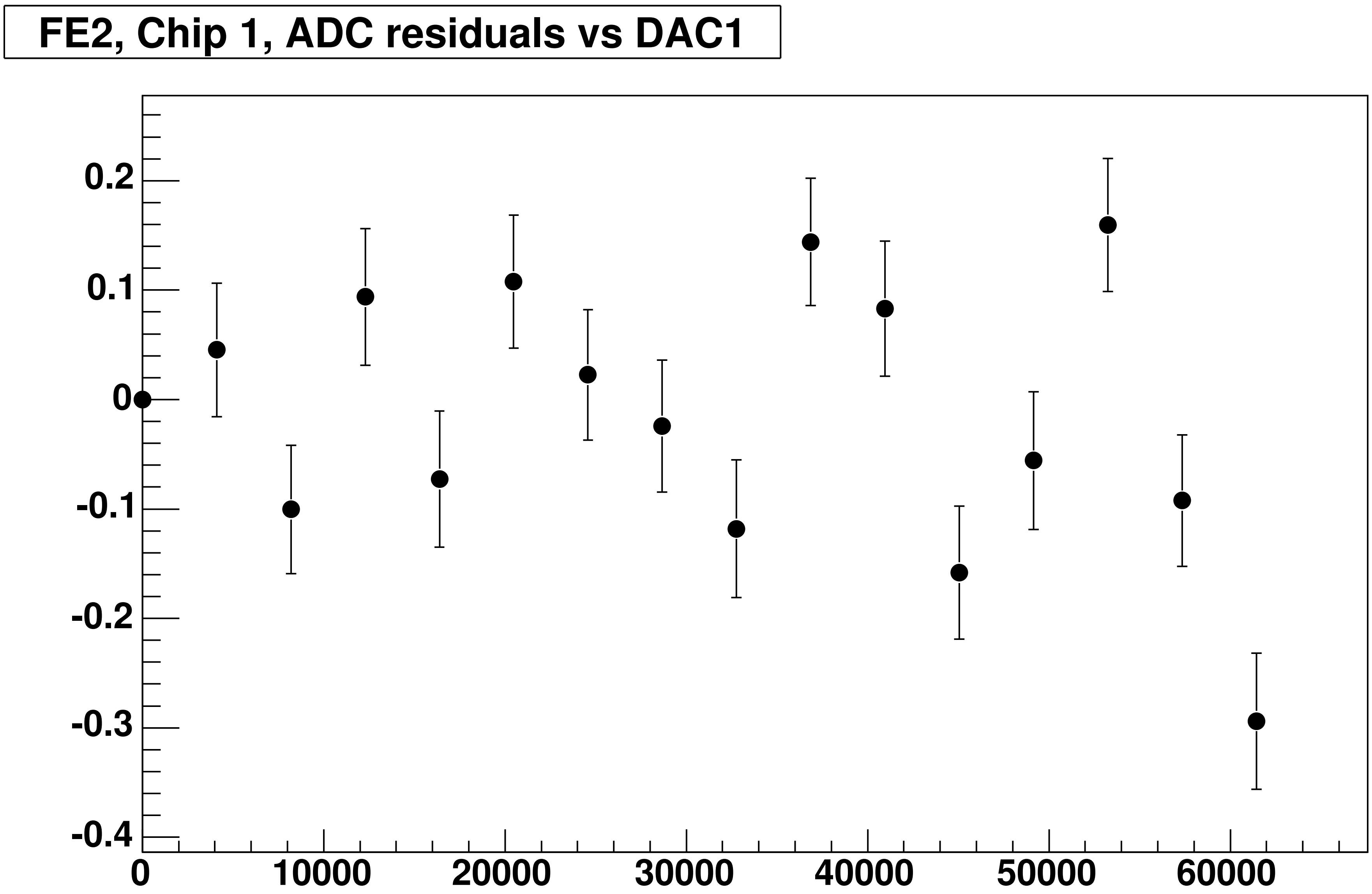

FE2, Chip 1, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



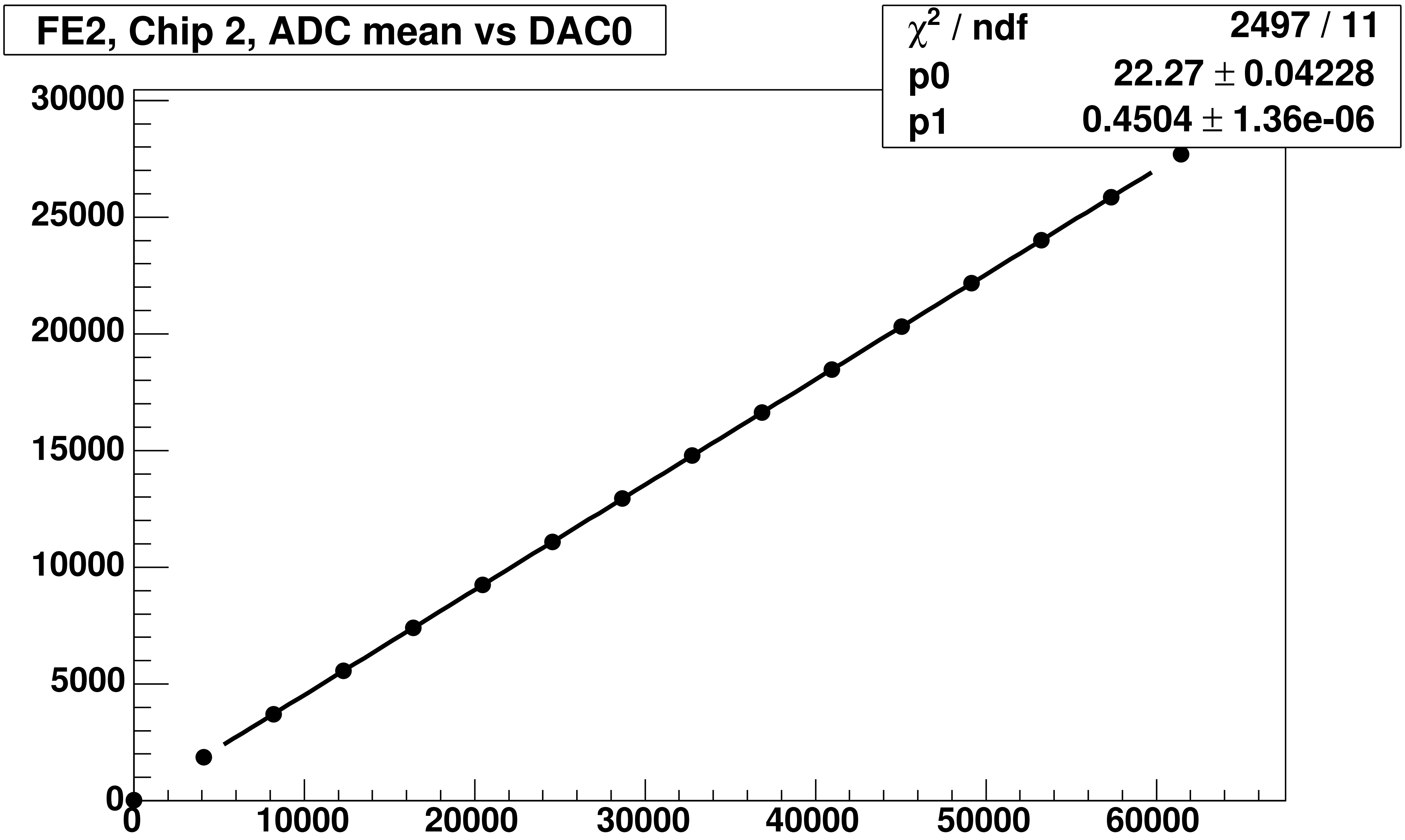
FE2, Chip 1, ADC mean vs DAC1
χ^2 / ndf 38.35 / 11
p0 21.75 ± 0.03968
p1 1.17e-08 ± 1.098e-06
22.1
22
21.9
21.8
21.7
21.6
21.5
21.4
0
10000
20000
30000
40000
50000
60000



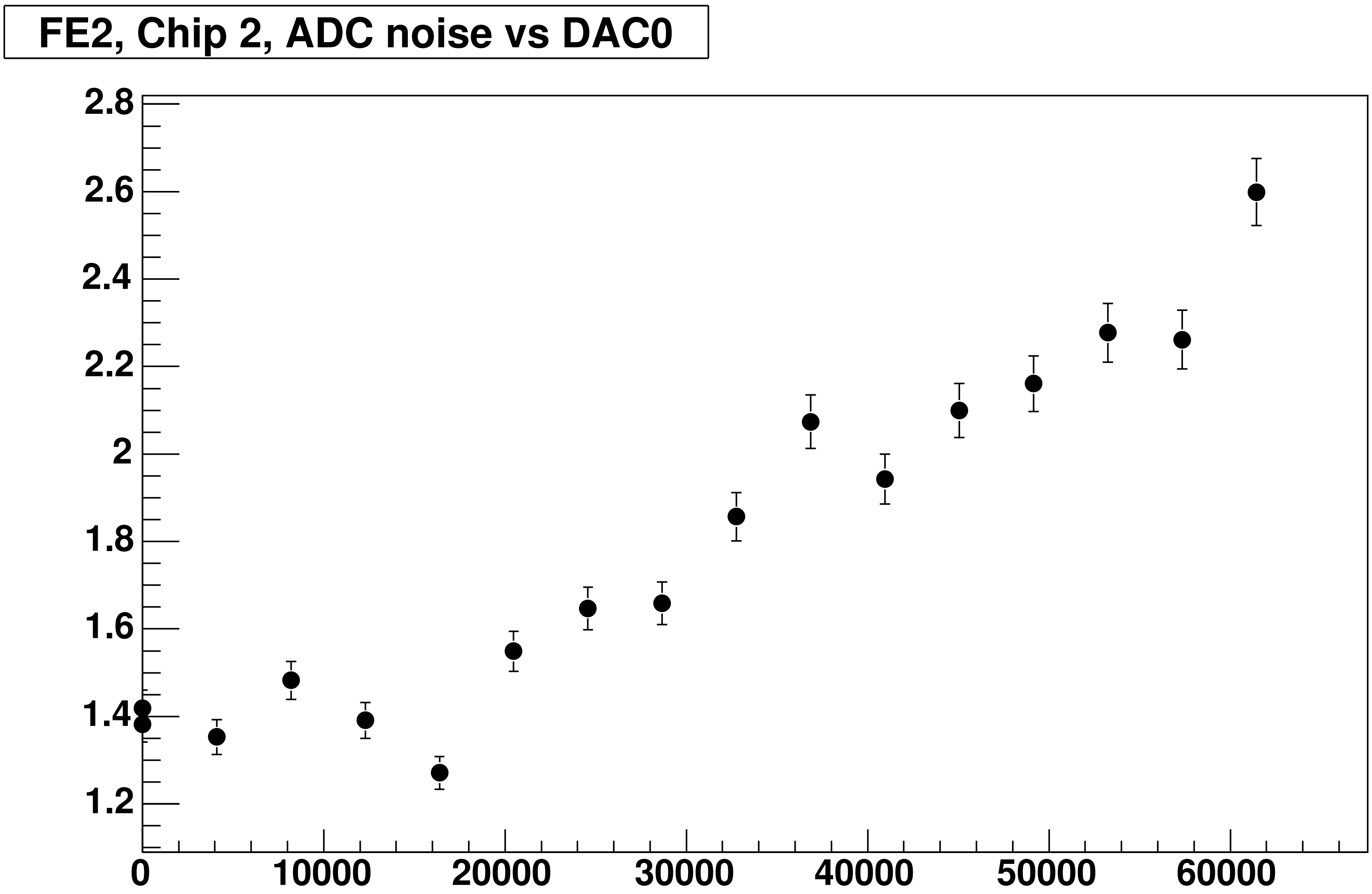
FE2, Chip 1, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

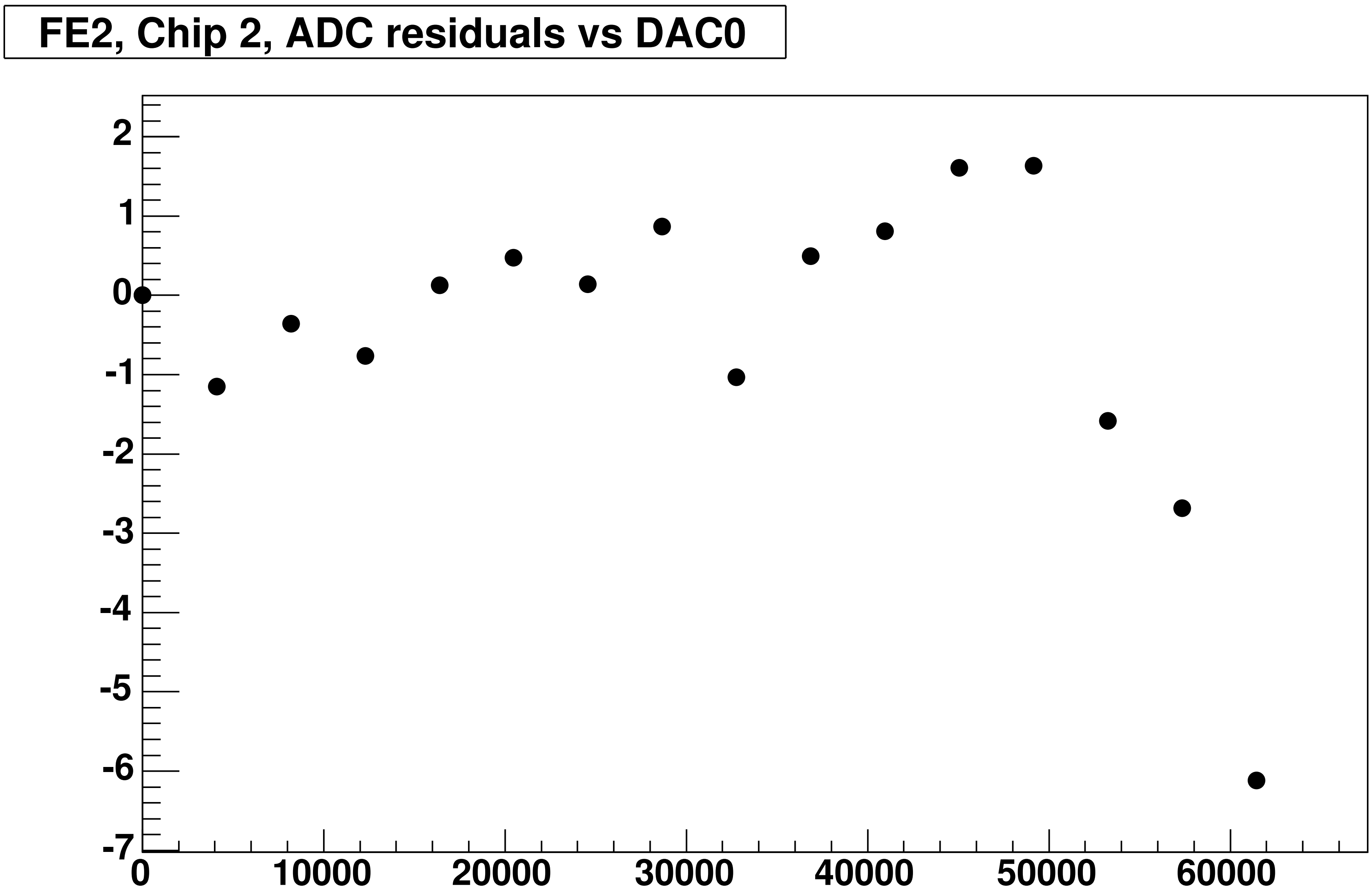


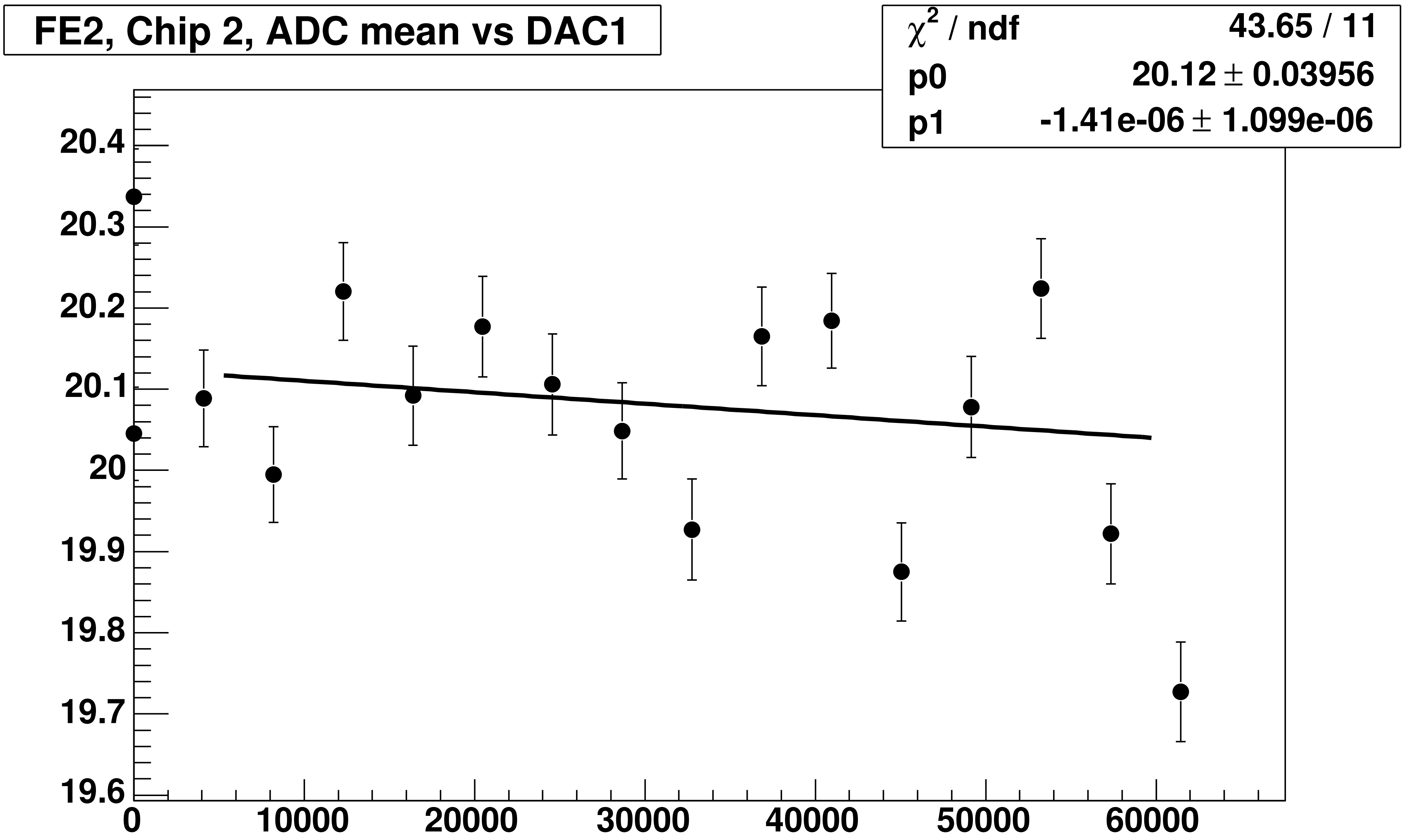
FE2, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

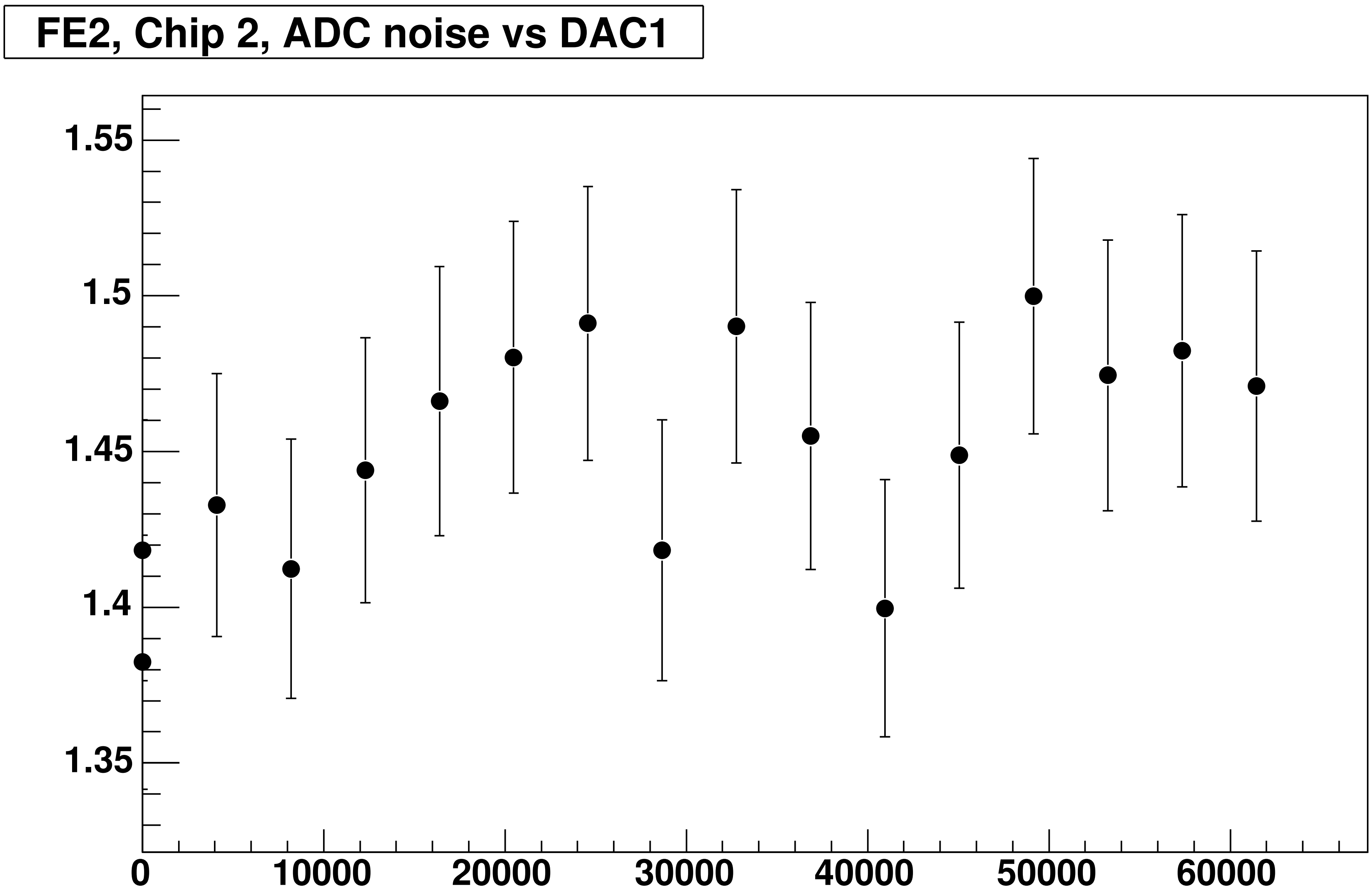


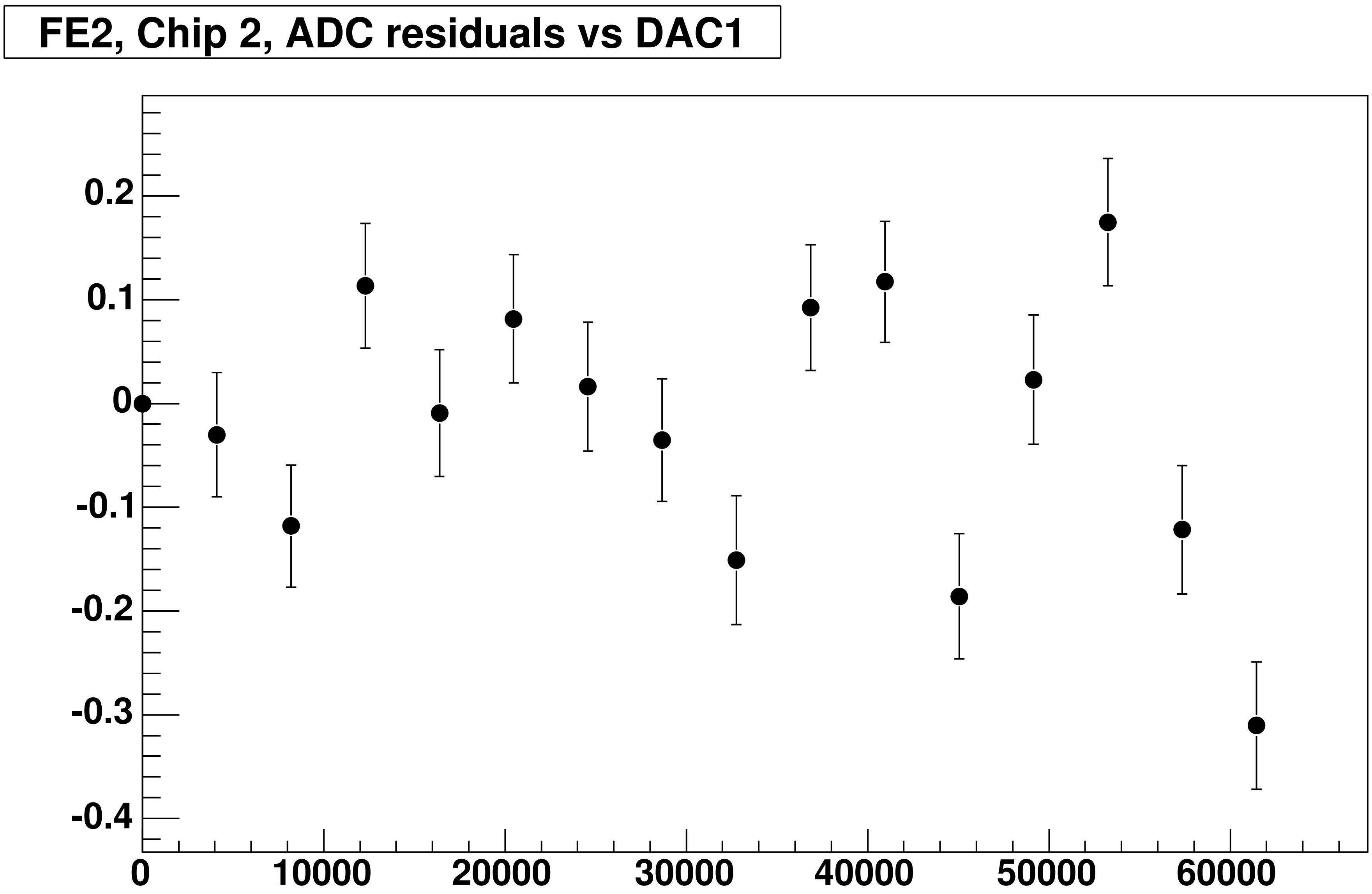
FE2, Chip 2, ADC mean vs DAC0
χ2 / ndf 2497 / 11
p0 22.27 ± 0.04228
p1 0.4504 ± 1.36e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

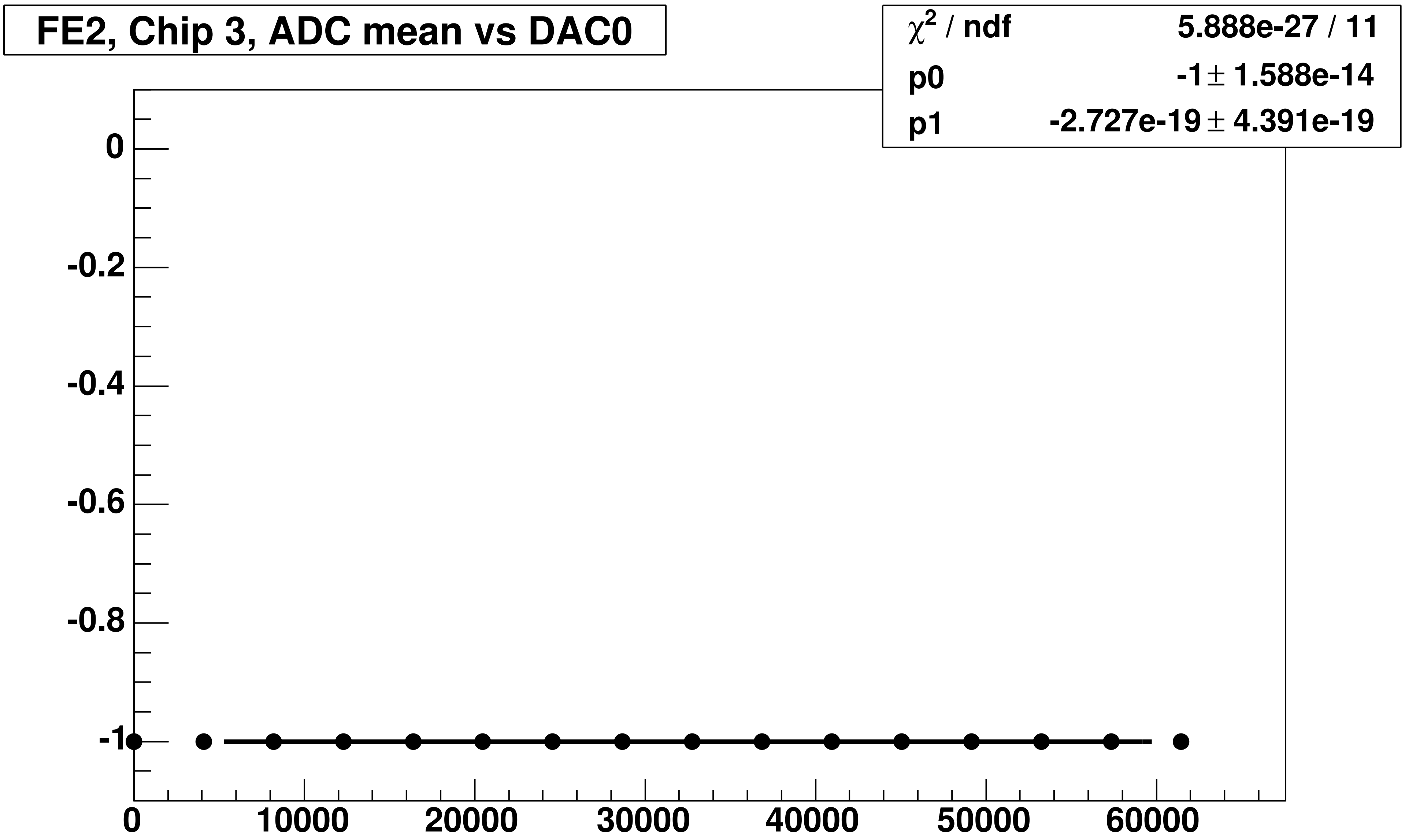

FE2, Chip 2, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE2, Chip 2, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

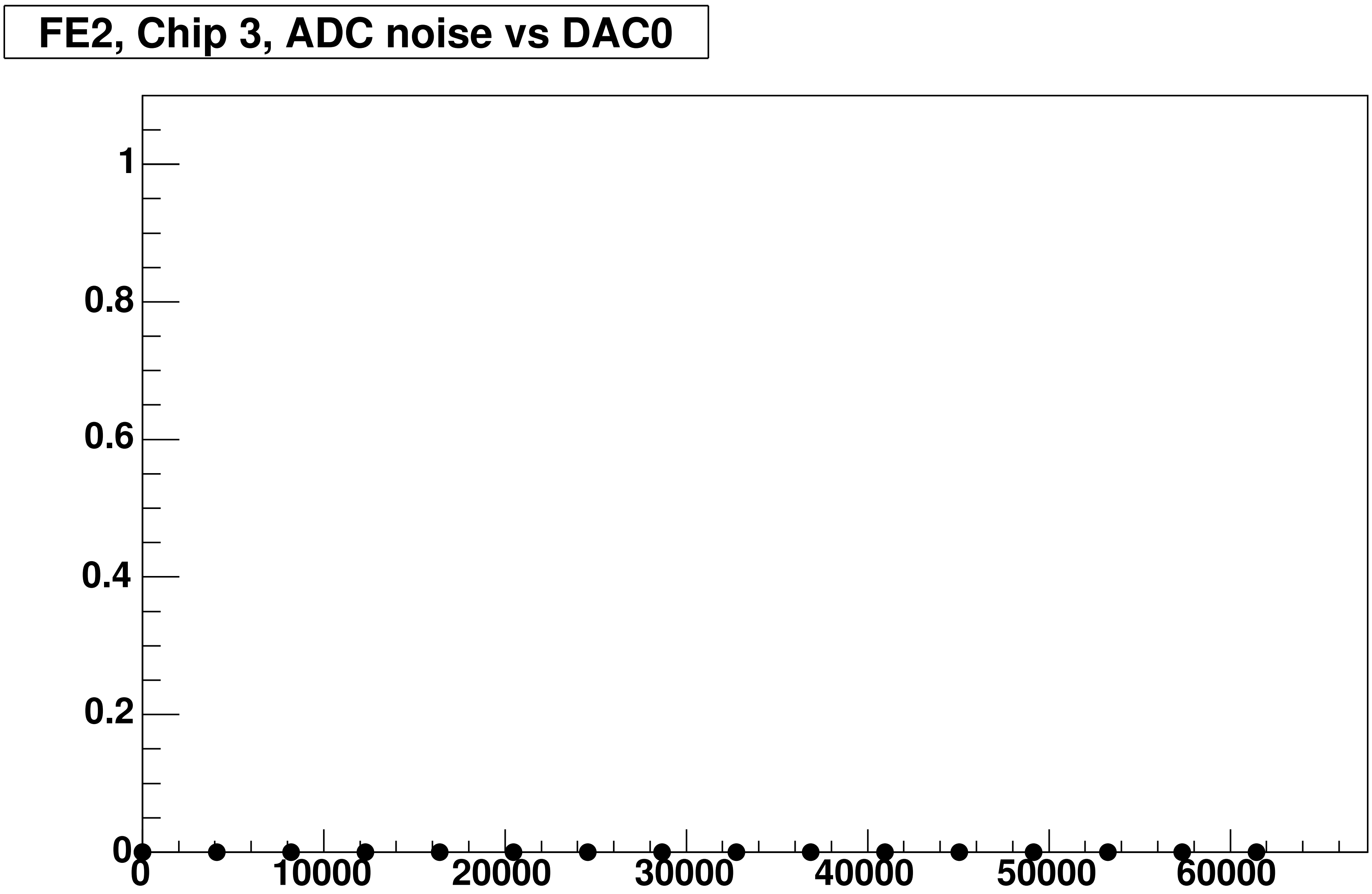

FE2, Chip 2, ADC mean vs DAC1
χ^2 / ndf 43.65 / 11
p0 20.12 ± 0.03956
p1 -1.41e-06 ± 1.099e-06
20.4
20.3
20.2
20.1
20
19.9
19.8
19.7
19.6
0
10000
20000
30000
40000
50000
60000

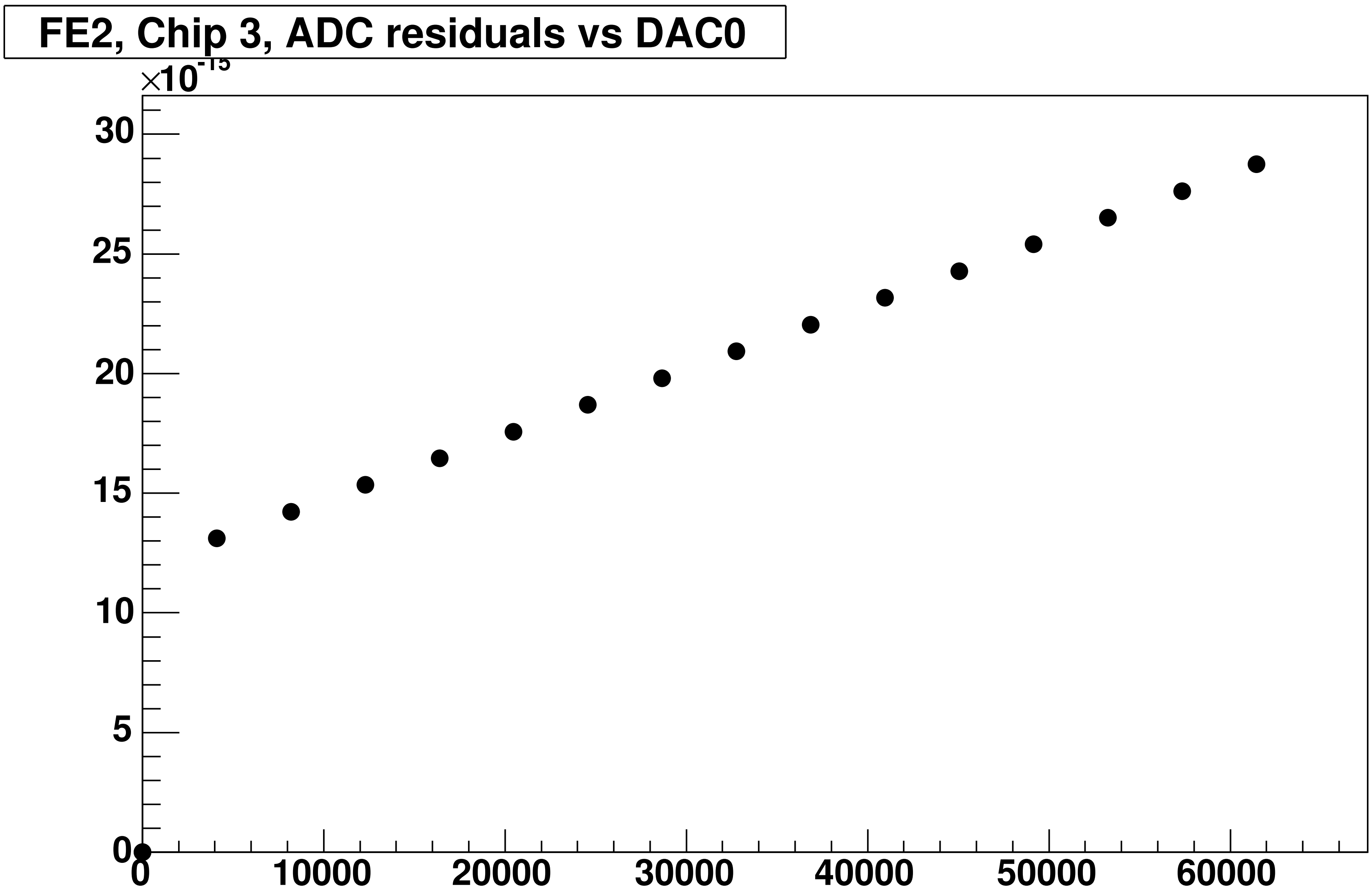

FE2, Chip 2, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE2, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

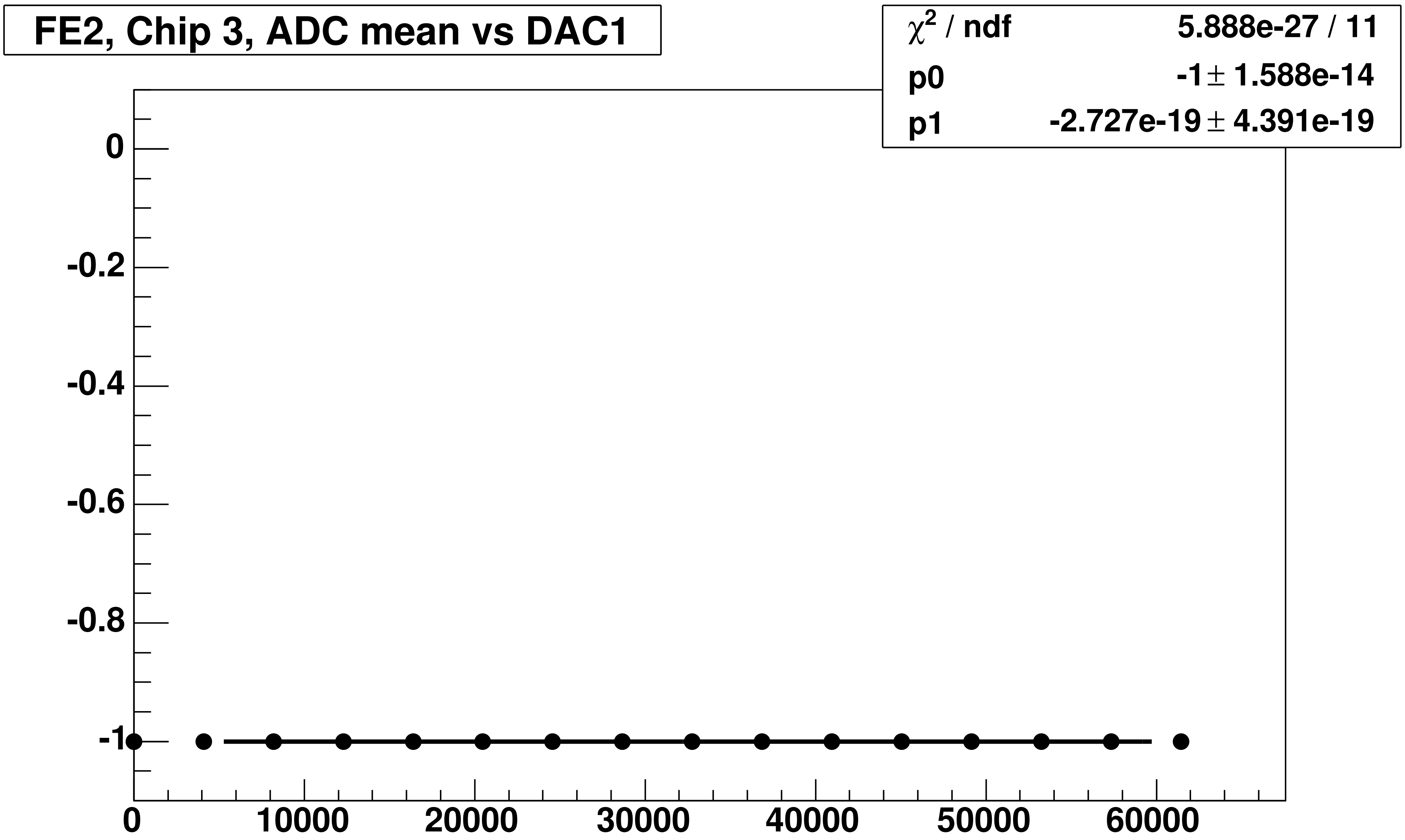


FE2, Chip 3, ADC mean vs DAC0
χ^2 / ndf 5.888e-27 / 11
p0 -1 ± 1.588e-14
p1 -2.727e-19 ± 4.391e-19
0
-0.2
-0.4
-0.6
-0.8
-1
0
10000
20000
30000
40000
50000
60000

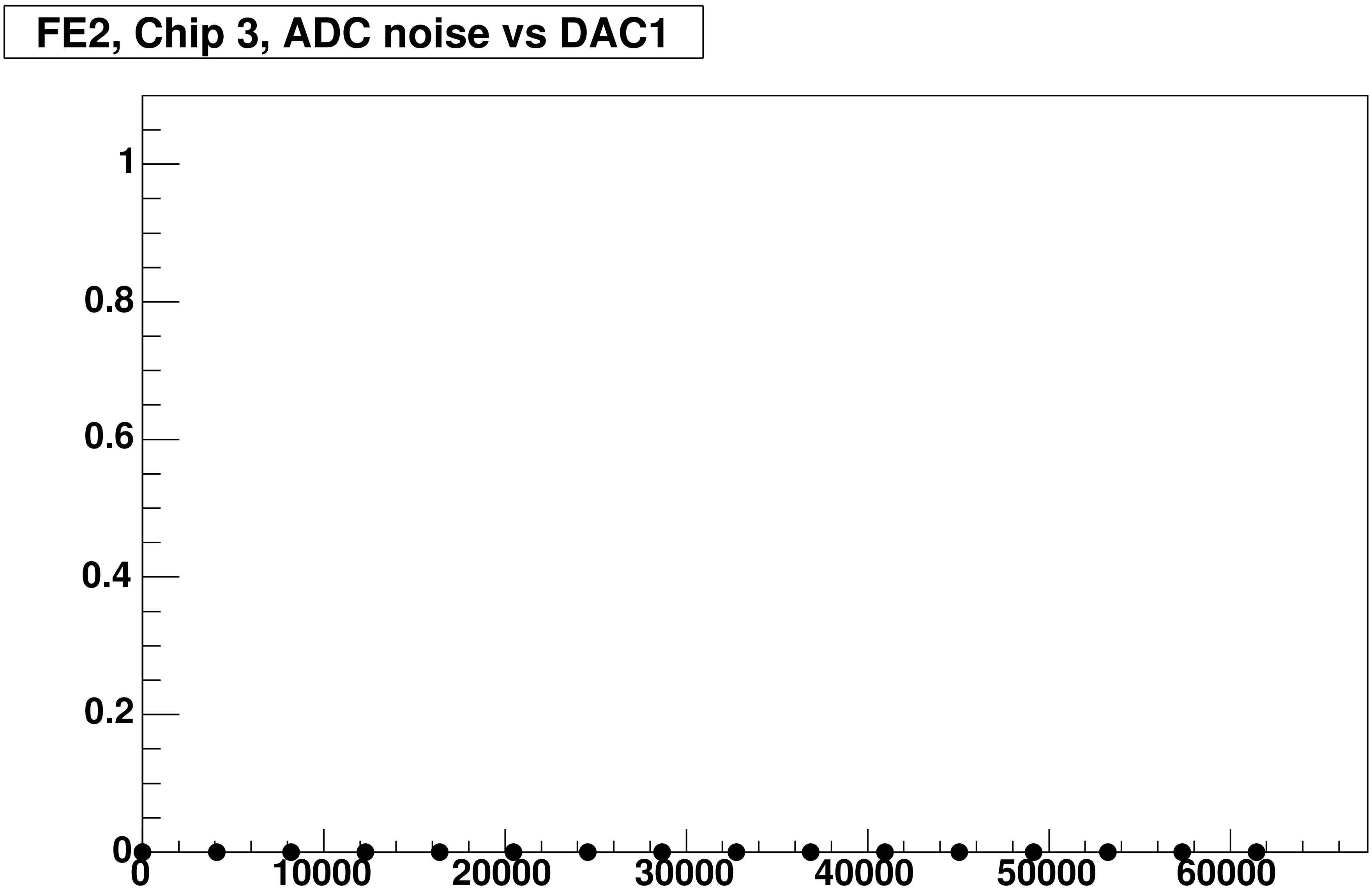

FE2, Chip 3, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000



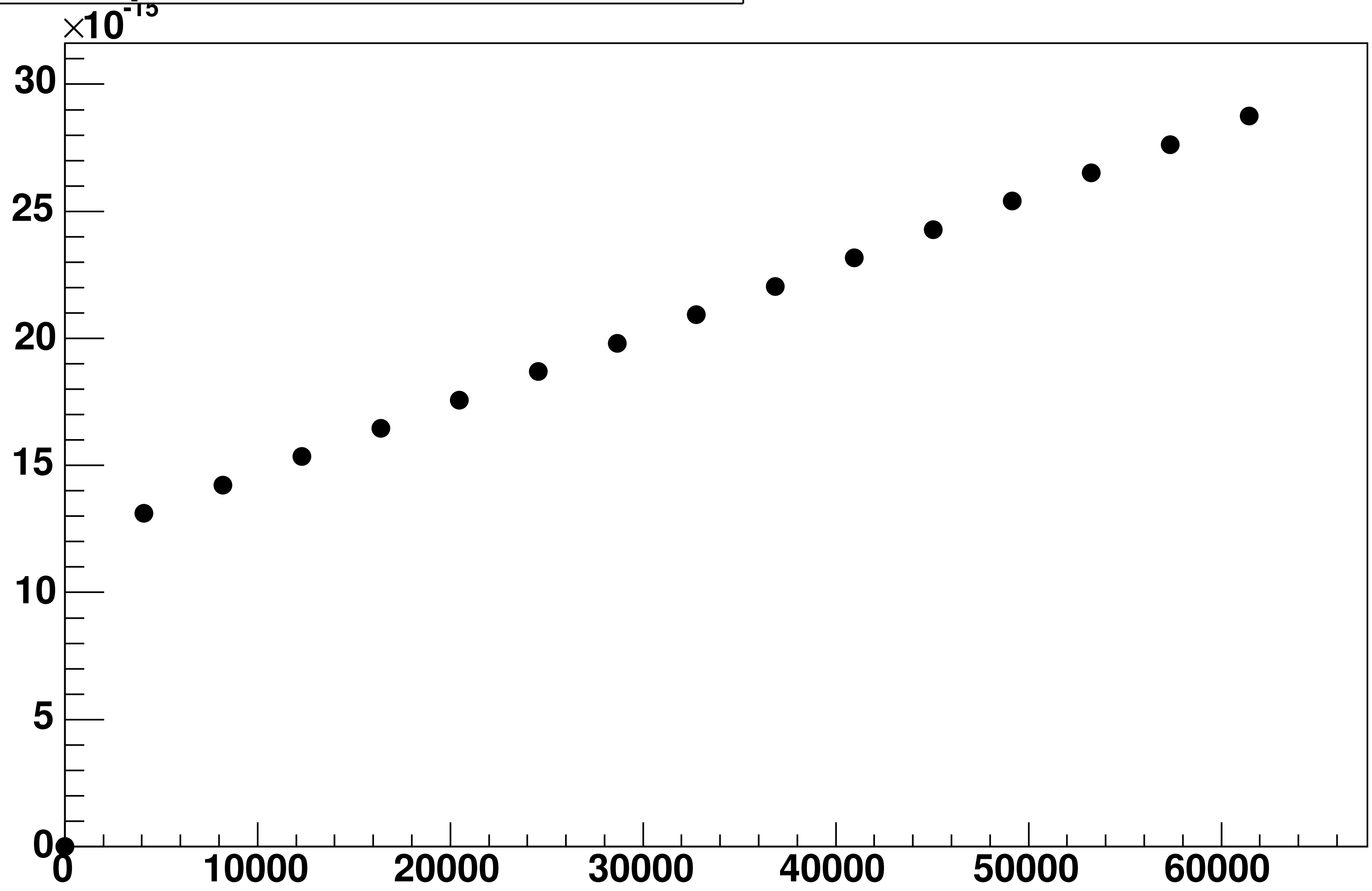
FE2, Chip 3, ADC residuals vs DAC0
$\times 10^{-15}$
30
25
20
15
10
5
0
0
10000
20000
30000
40000
50000
60000

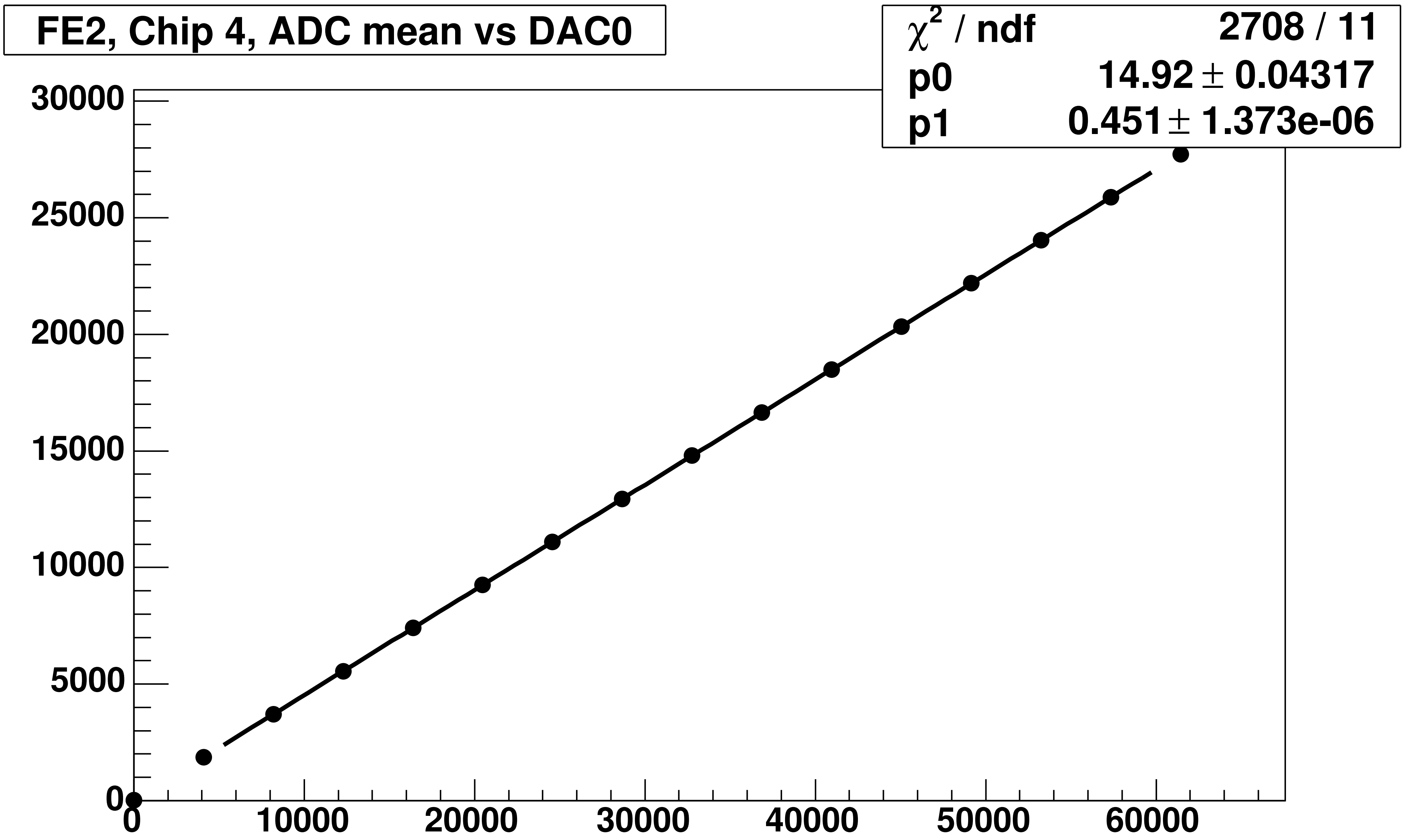


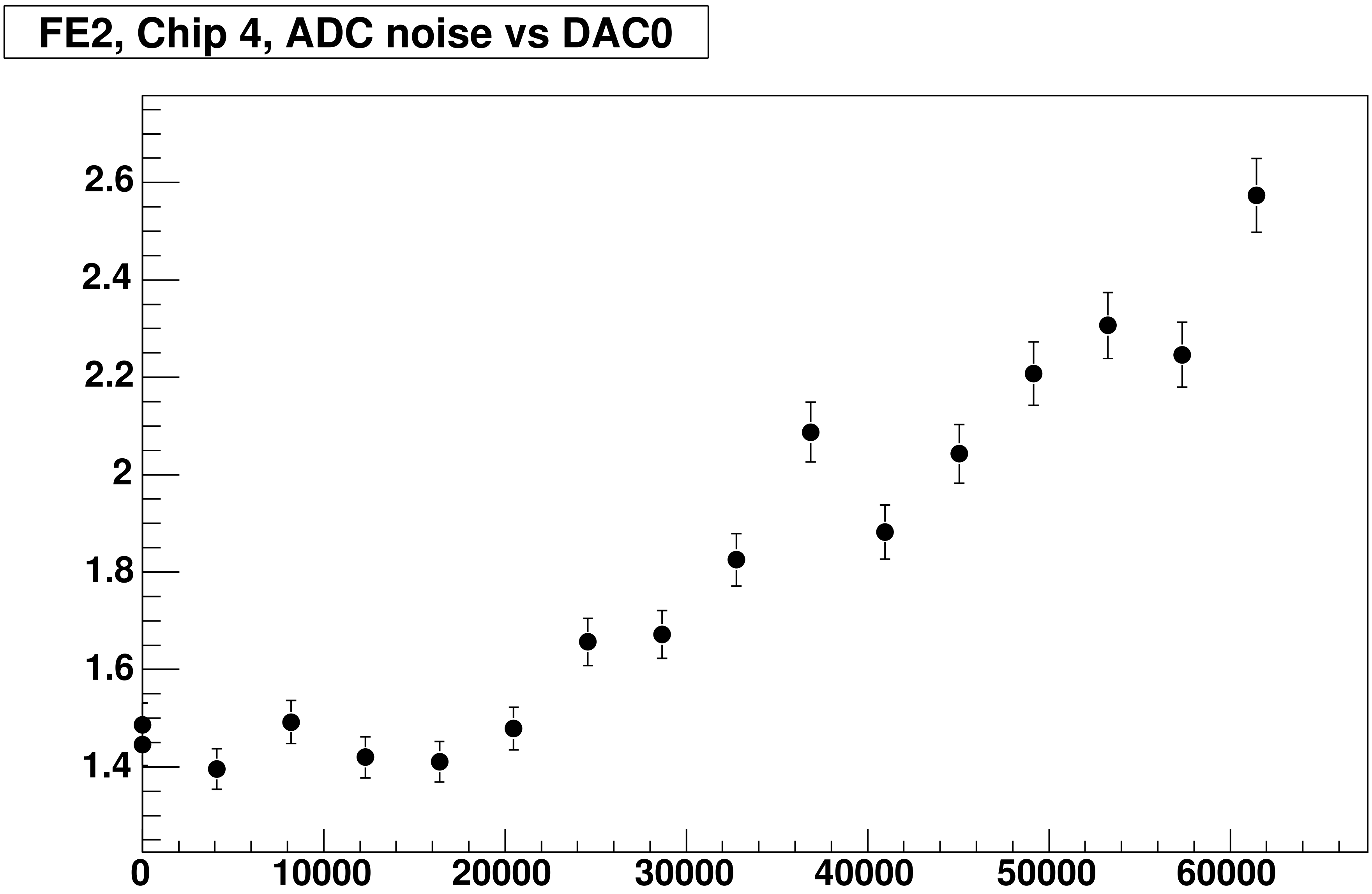
FE2, Chip 3, ADC mean vs DAC1
χ^2 / ndf 5.888e-27 / 11
p0 -1 ± 1.588e-14
p1 -2.727e-19 ± 4.391e-19
0
-0.2
-0.4
-0.6
-0.8
-1
0
10000
20000
30000
40000
50000
60000

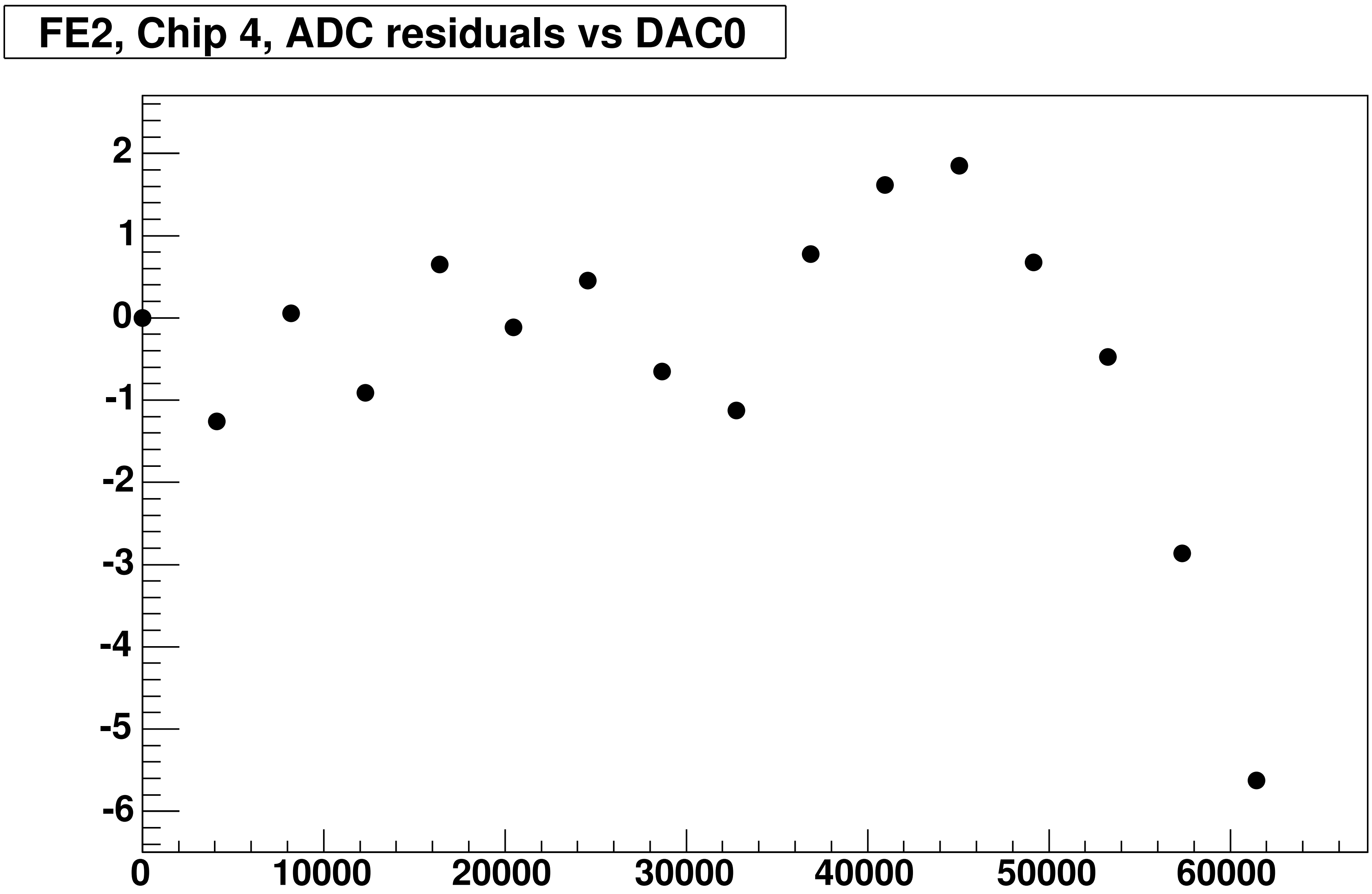

FE2, Chip 3, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000

FE2, Chip 3, ADC residuals vs DAC1

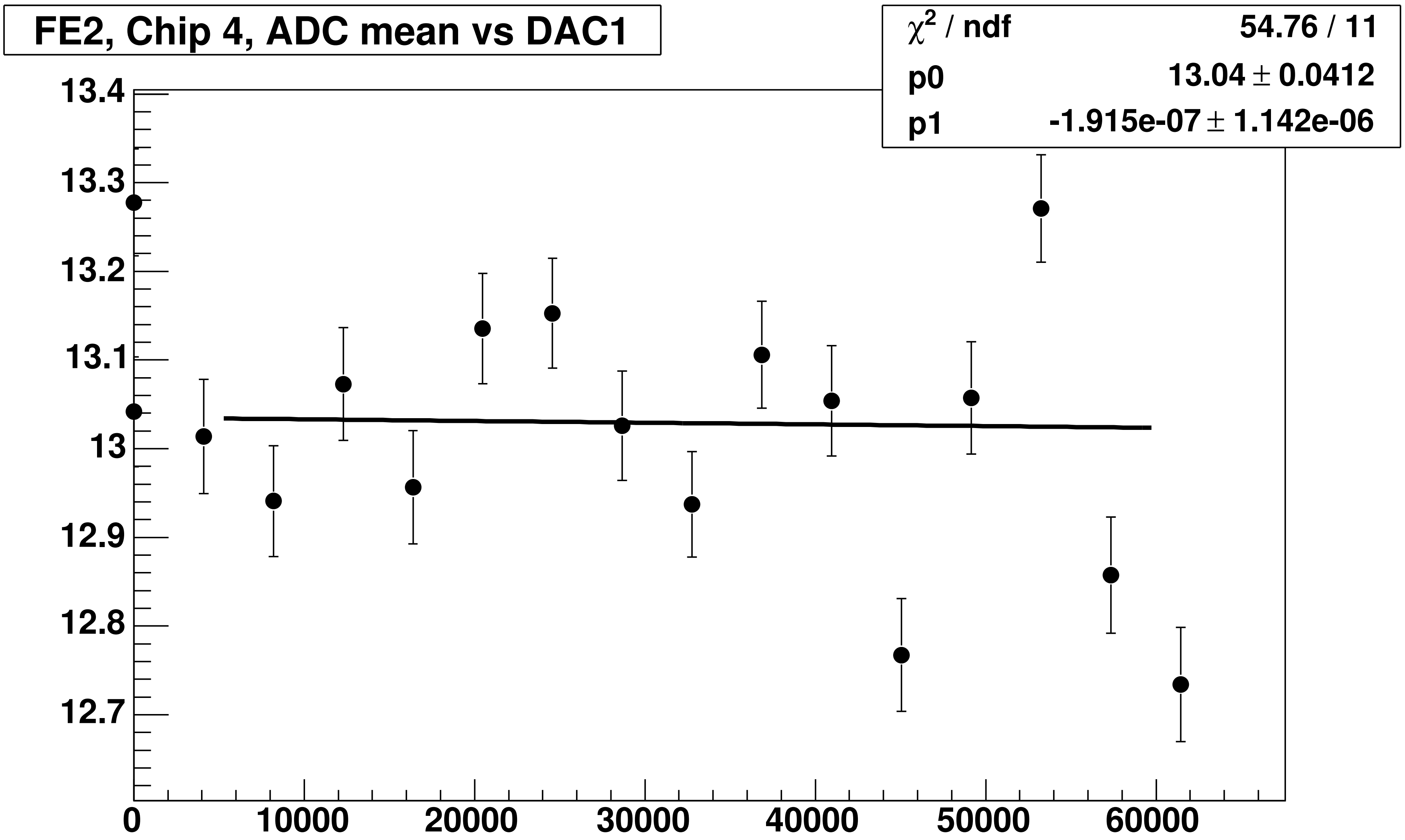


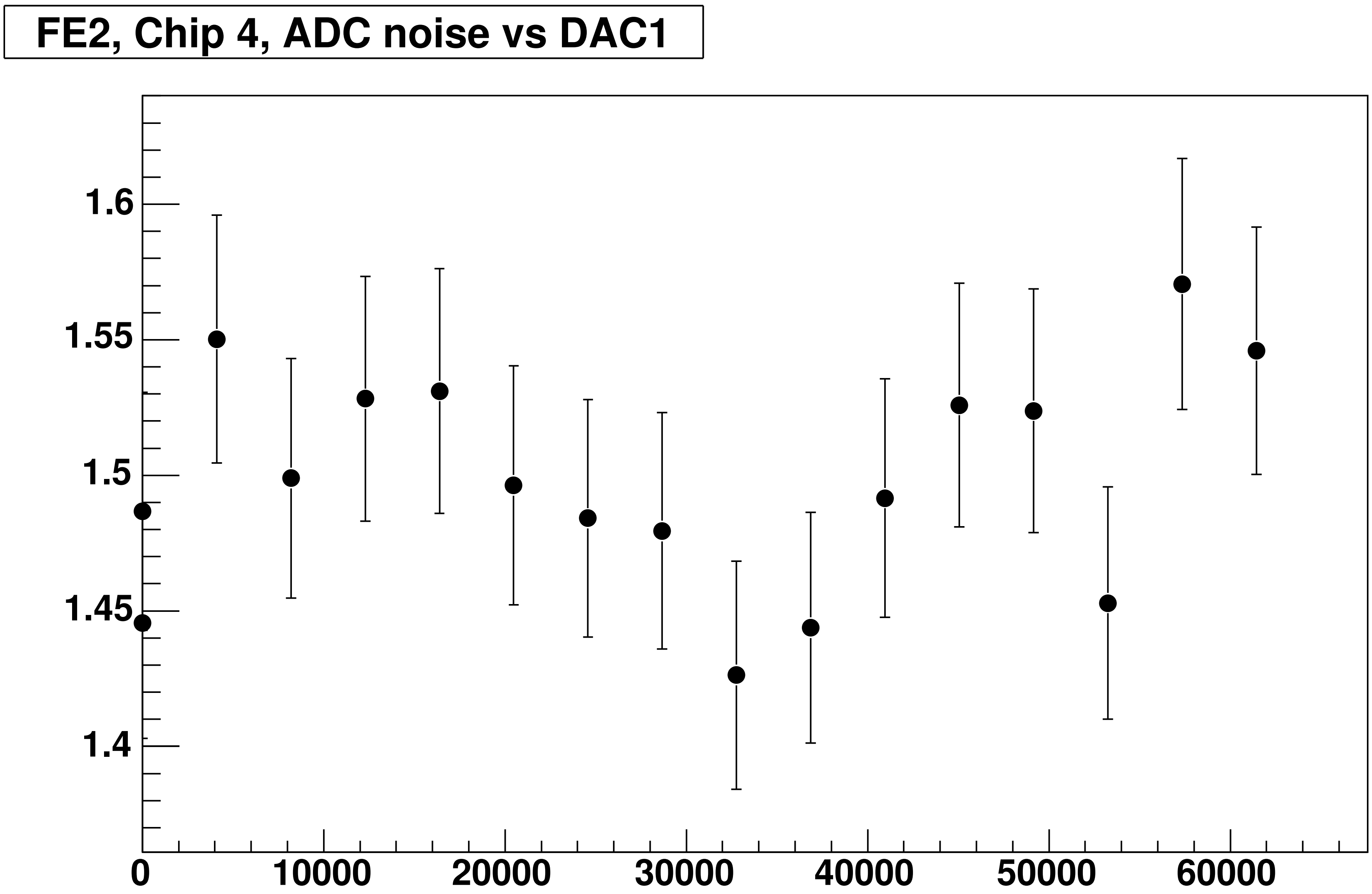

FE2, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2708 / 11
p0 14.92 ± 0.04317
p1 0.451 ± 1.373e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 4, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

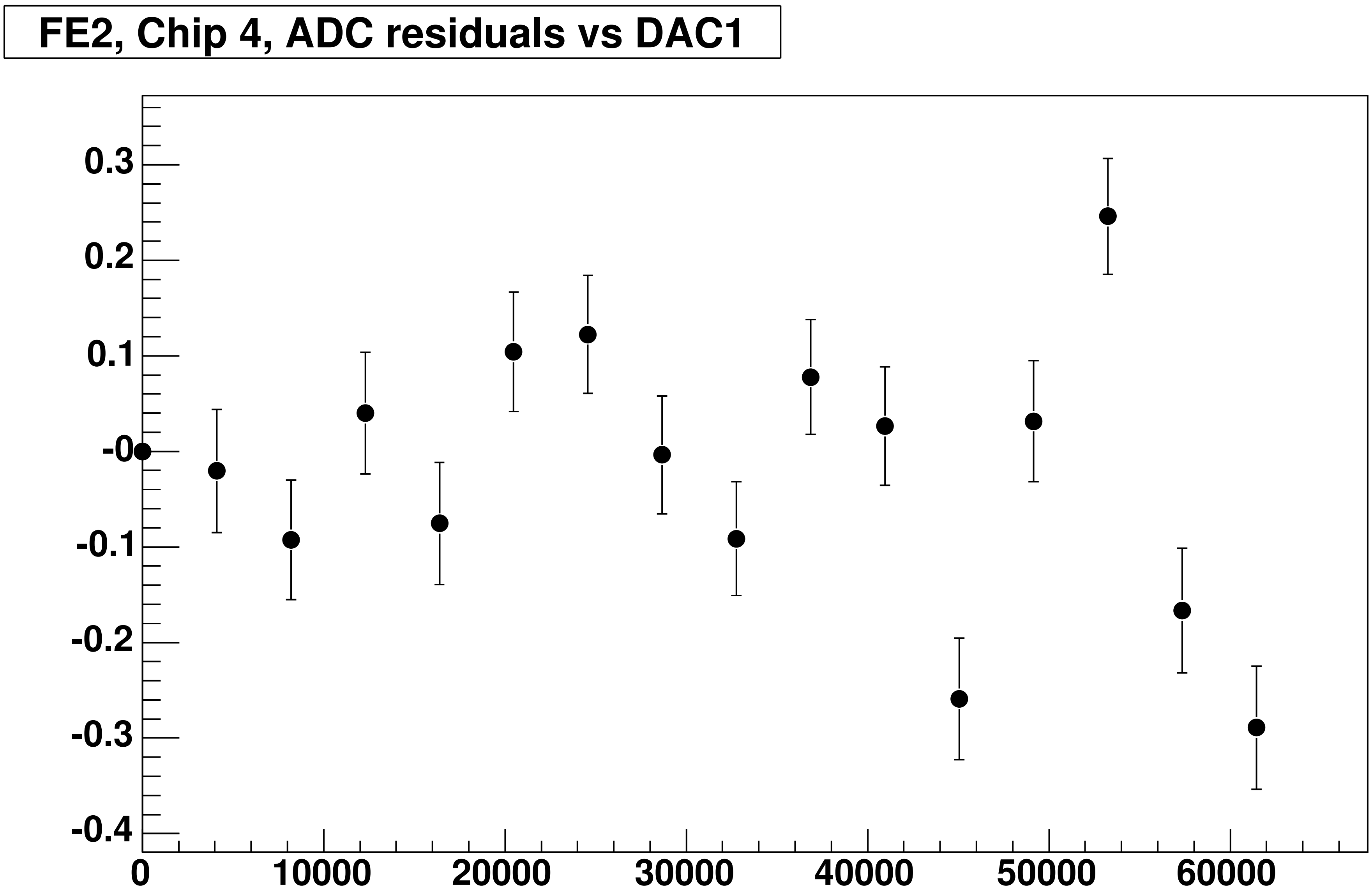


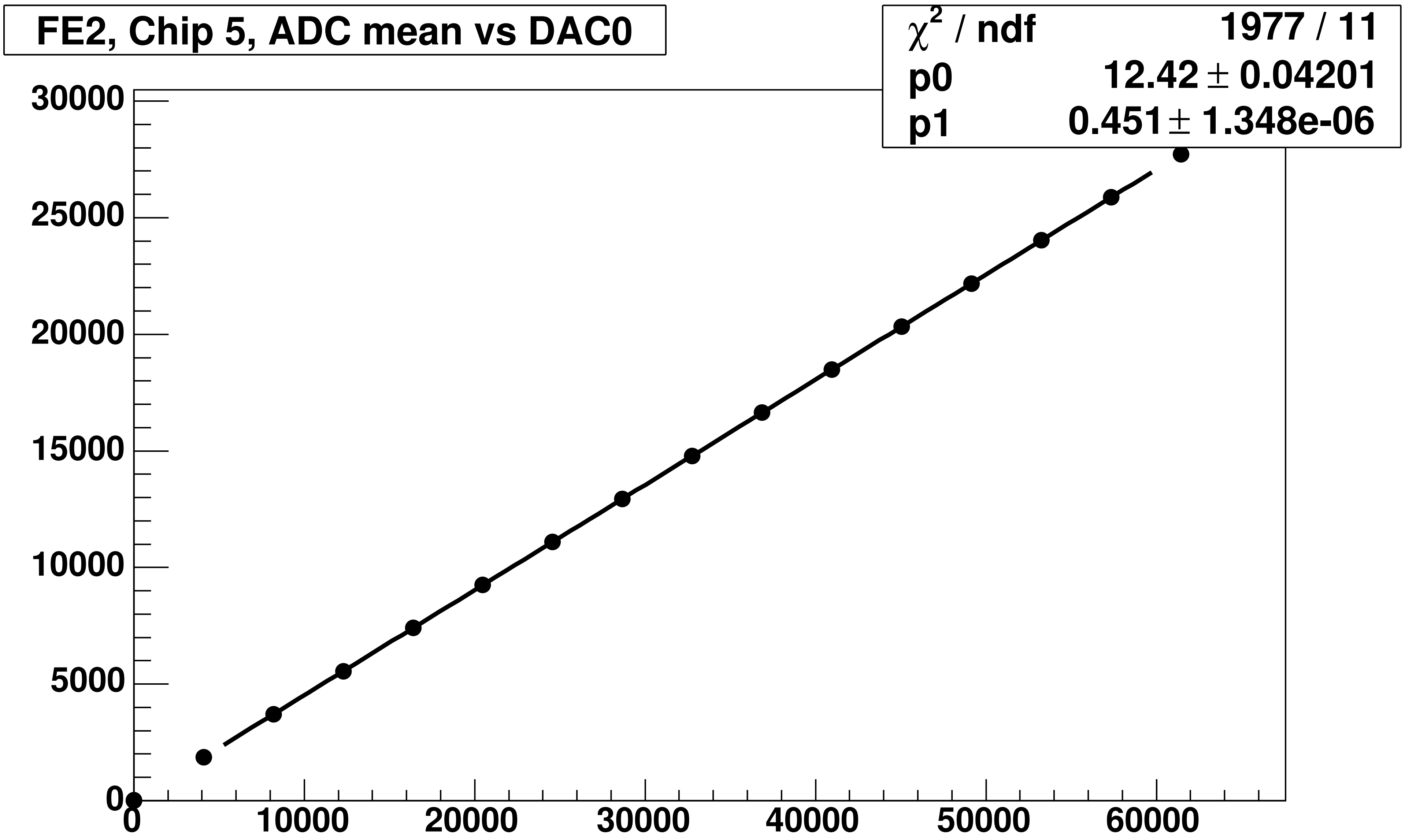
FE2, Chip 4, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE2, Chip 4, ADC mean vs DAC1
χ^2 / ndf 54.76 / 11
p0 13.04 ± 0.0412
p1 -1.915e-07 ± 1.142e-06
13.4
13.3
13.2
13.1
13
12.9
12.8
12.7
0
10000
20000
30000
40000
50000
60000

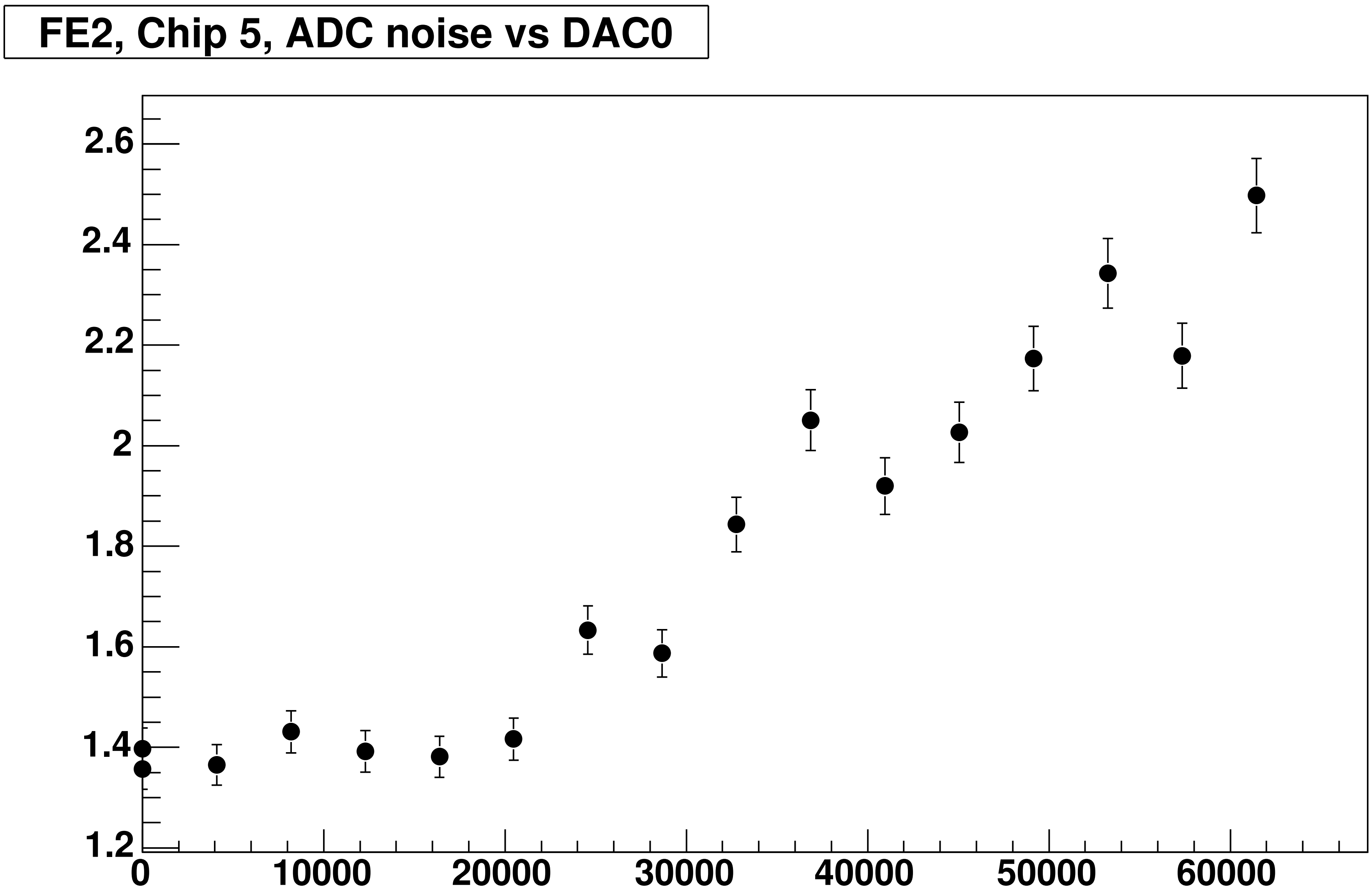


FE2, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

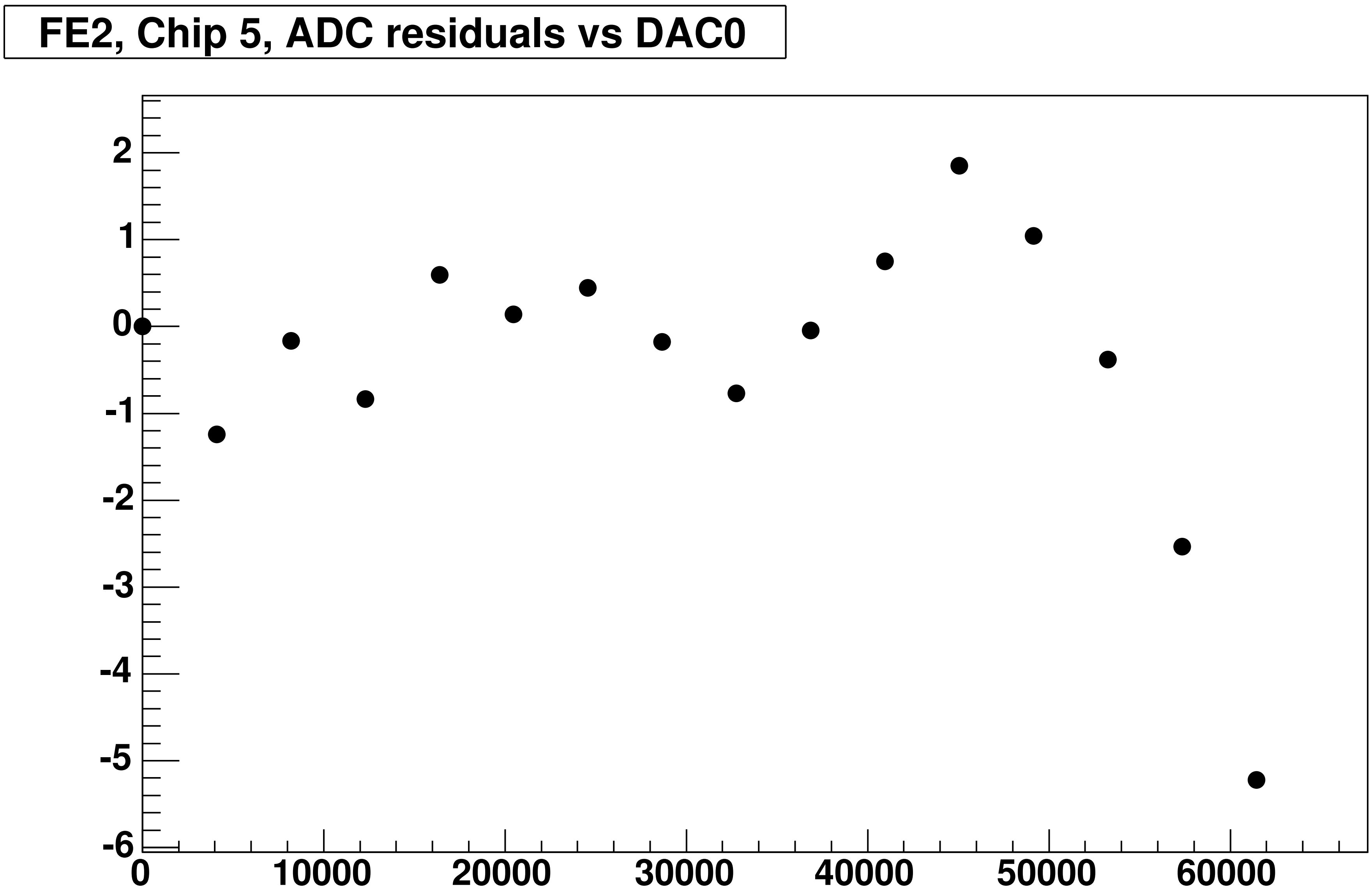

FE2, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

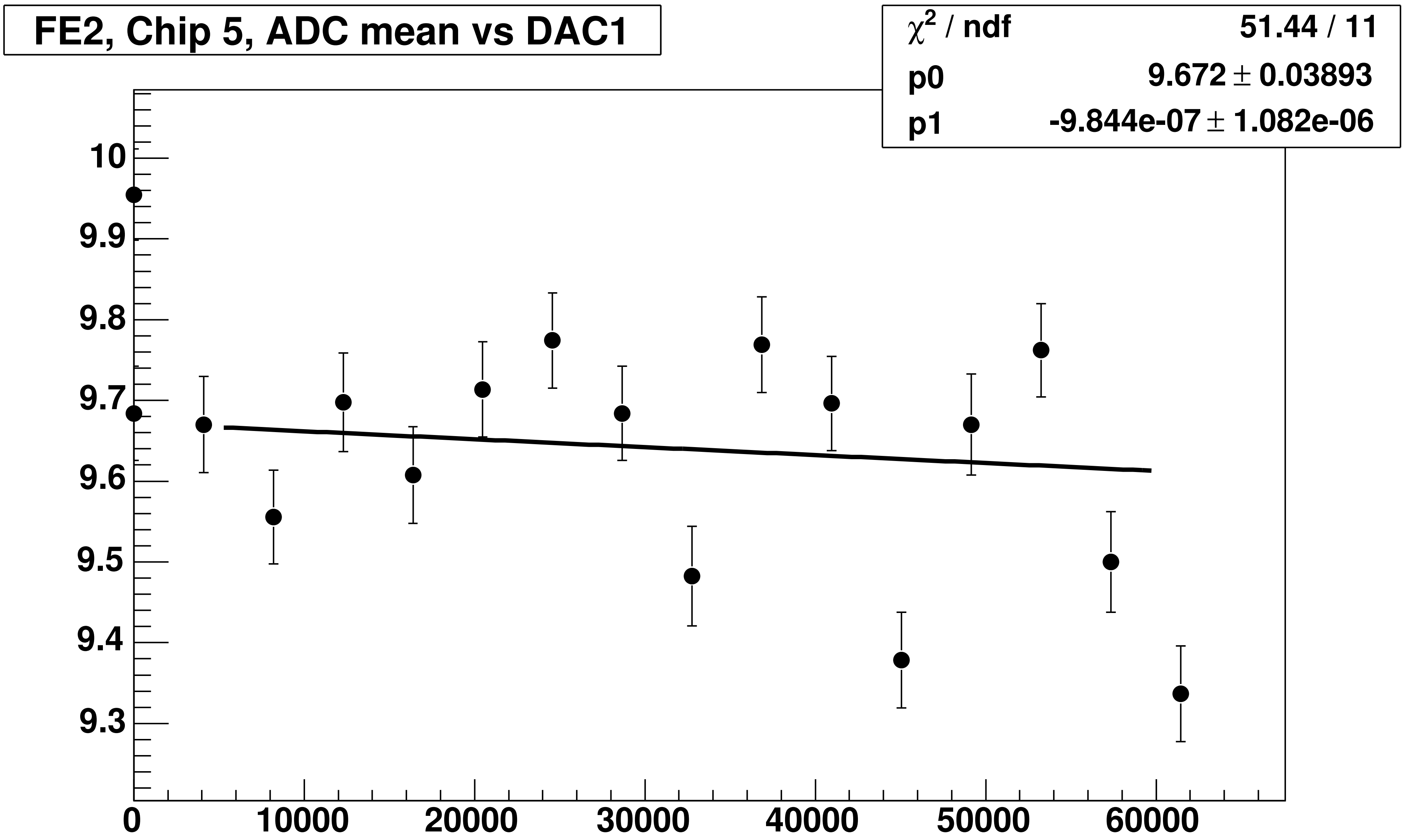


FE2, Chip 5, ADC mean vs DAC0
χ2 / ndf 1977 / 11
p0 12.42 ± 0.04201
p1 0.451 ± 1.348e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

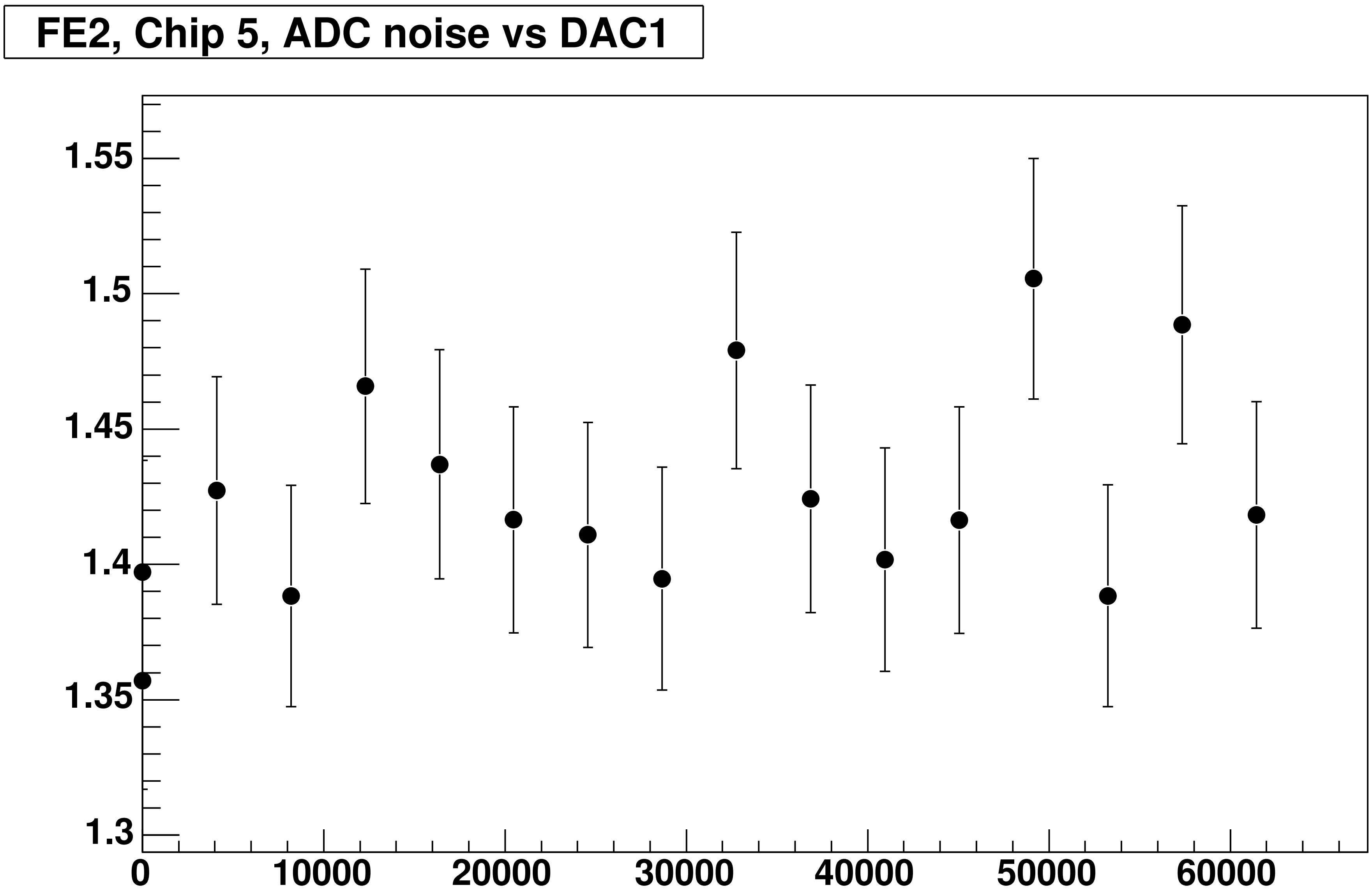


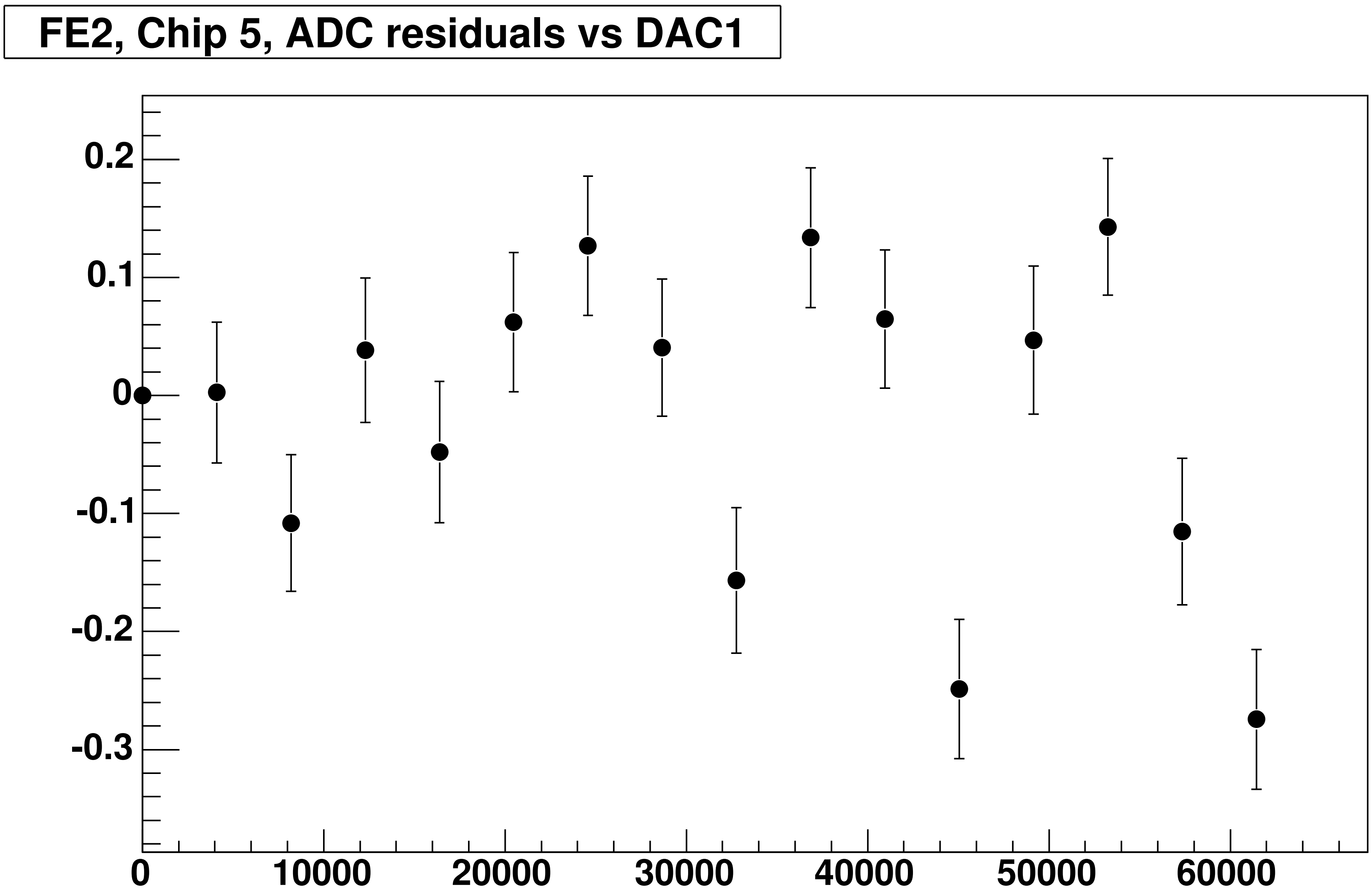
FE2, Chip 5, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

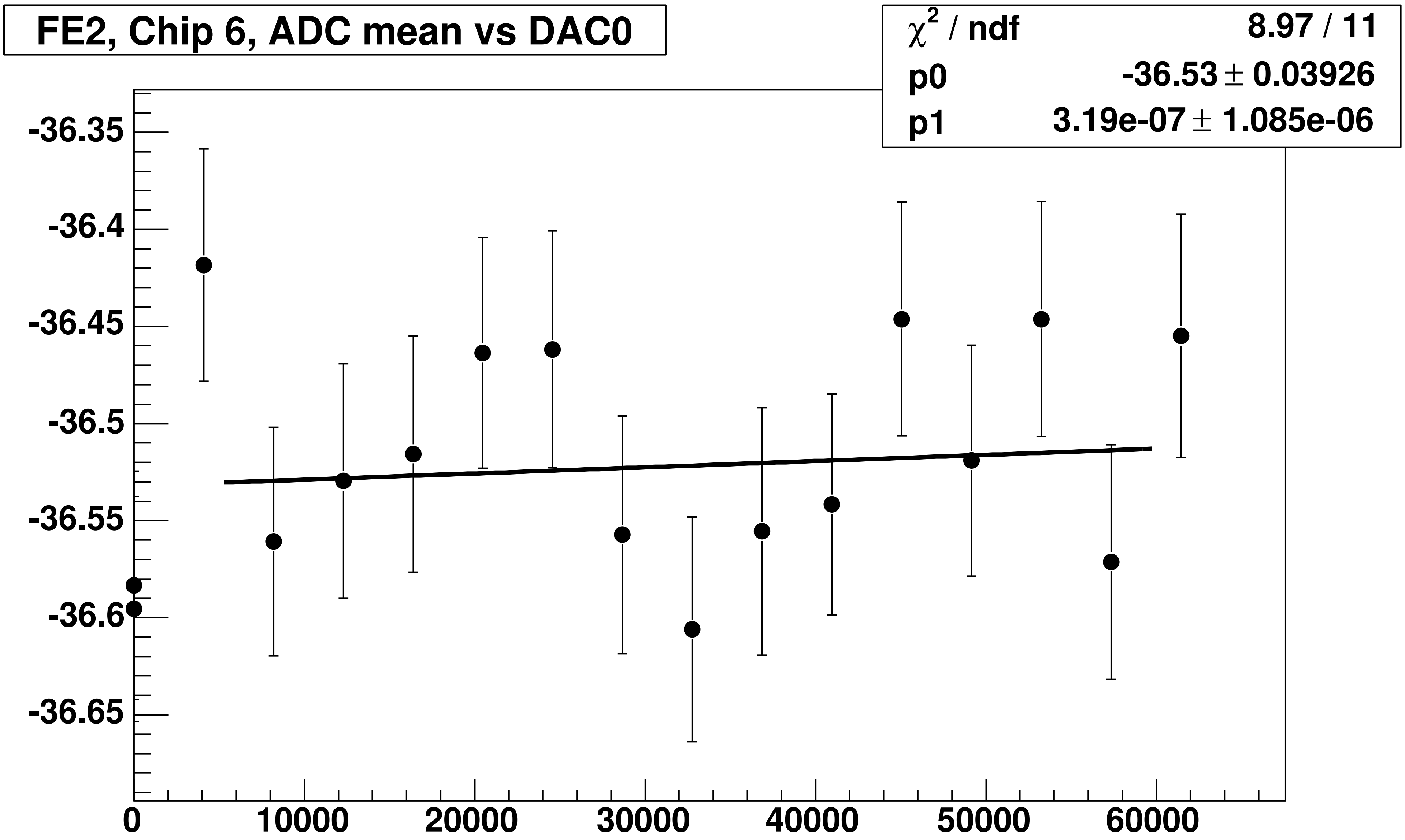

FE2, Chip 5, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

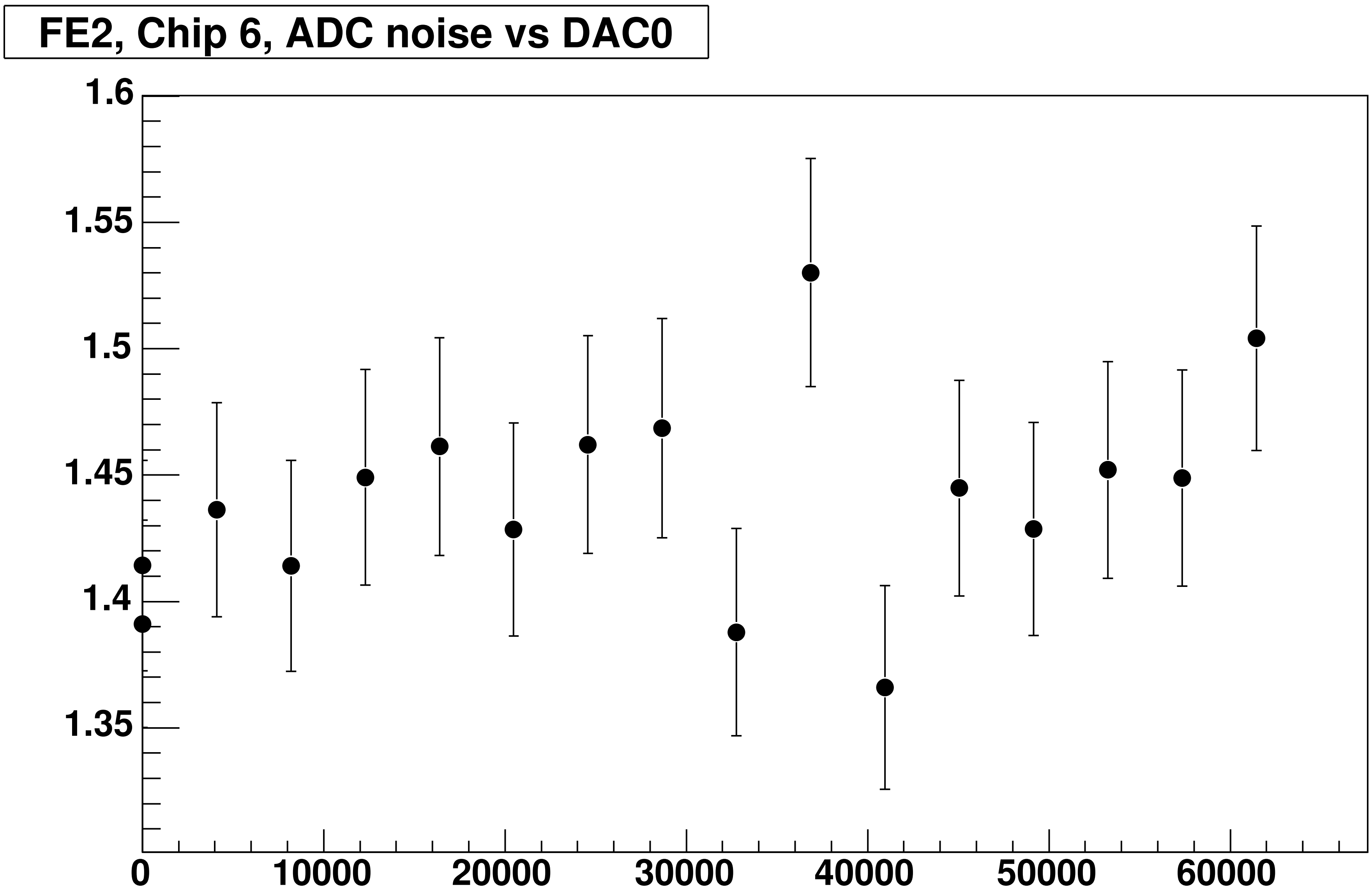


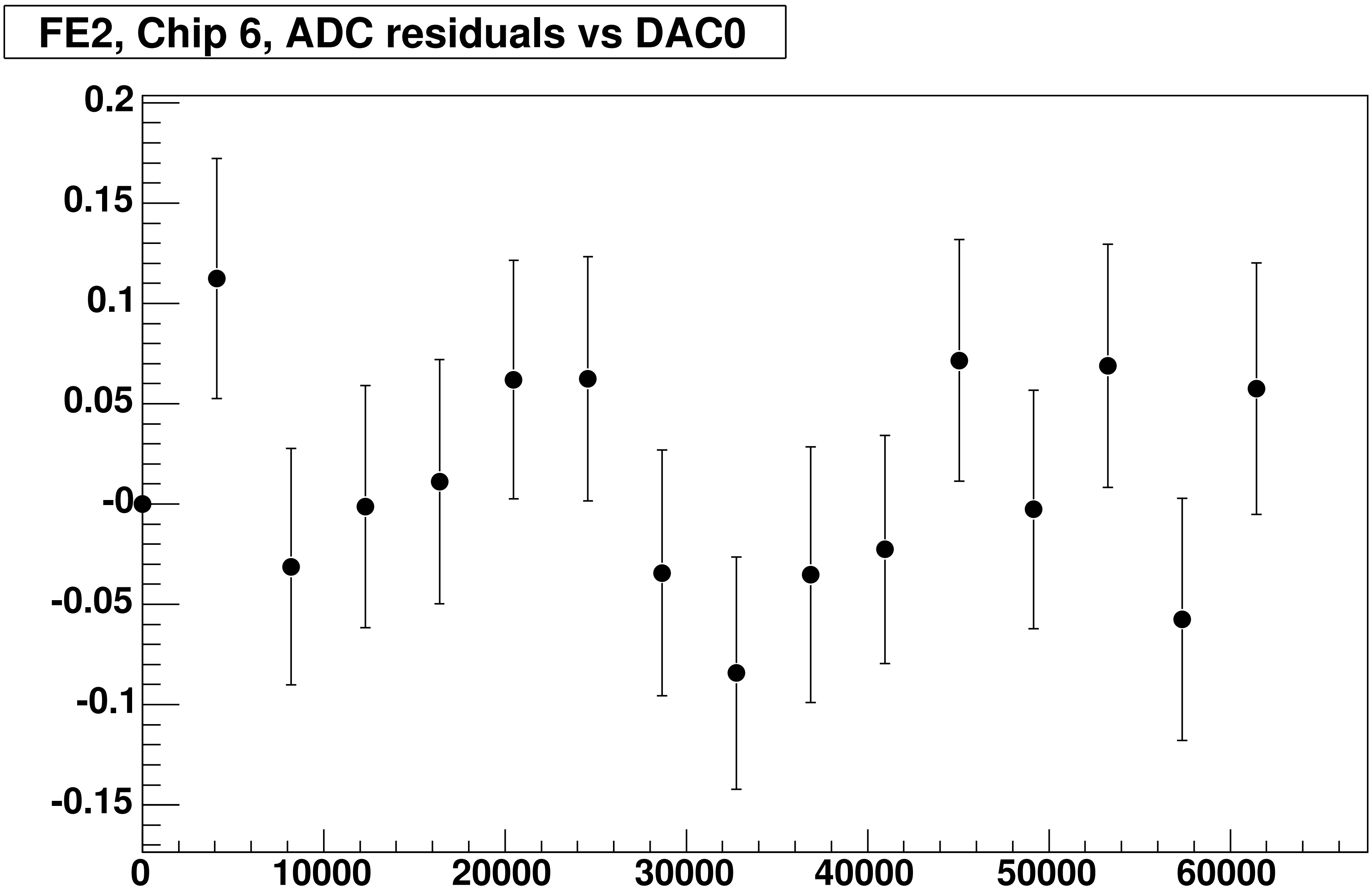
FE2, Chip 5, ADC mean vs DAC1
χ^2 / ndf 51.44 / 11
p0 9.672 ± 0.03893
p1 -9.844e-07 ± 1.082e-06
10
9.9
9.8
9.7
9.6
9.5
9.4
9.3
0
10000
20000
30000
40000
50000
60000

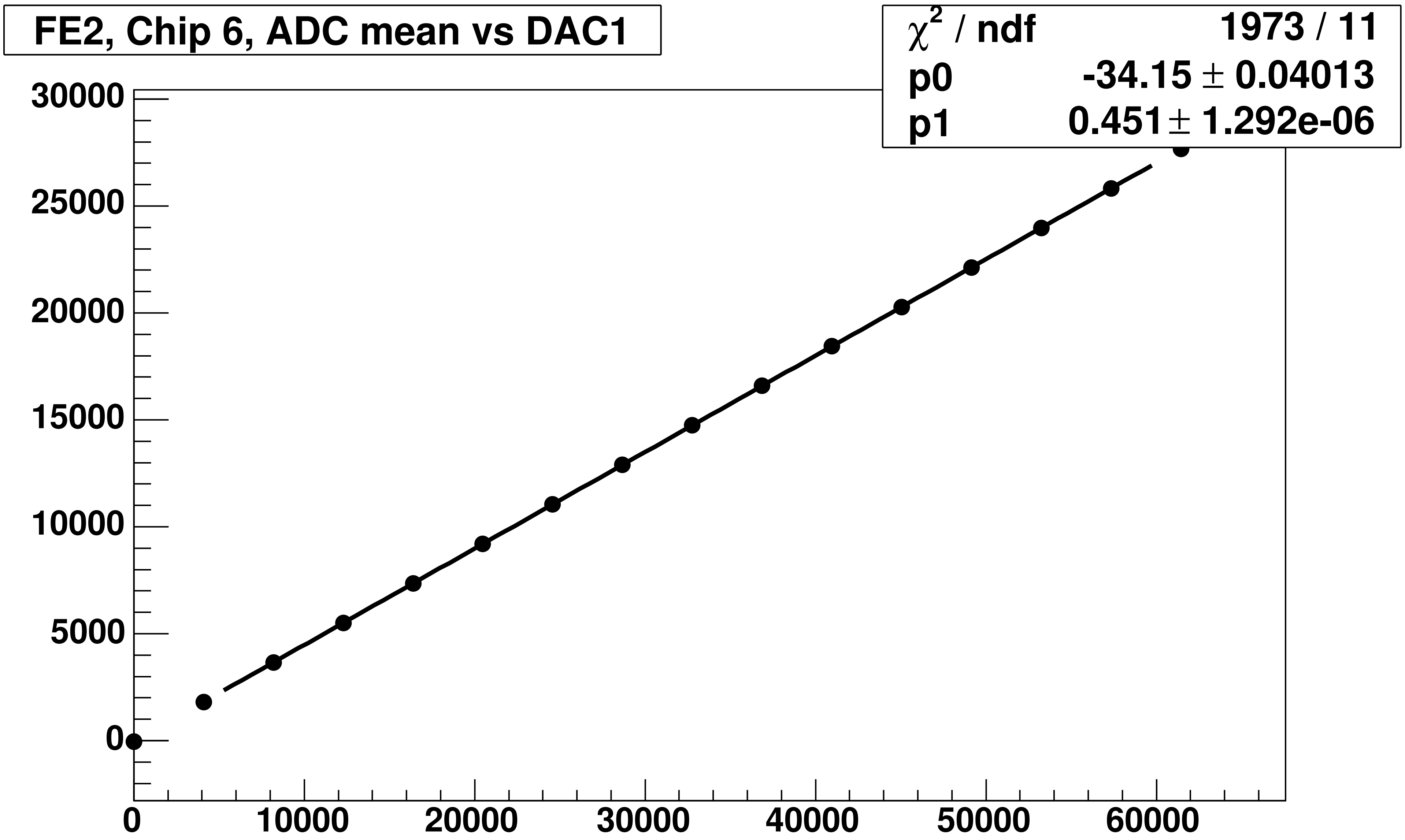

FE2, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

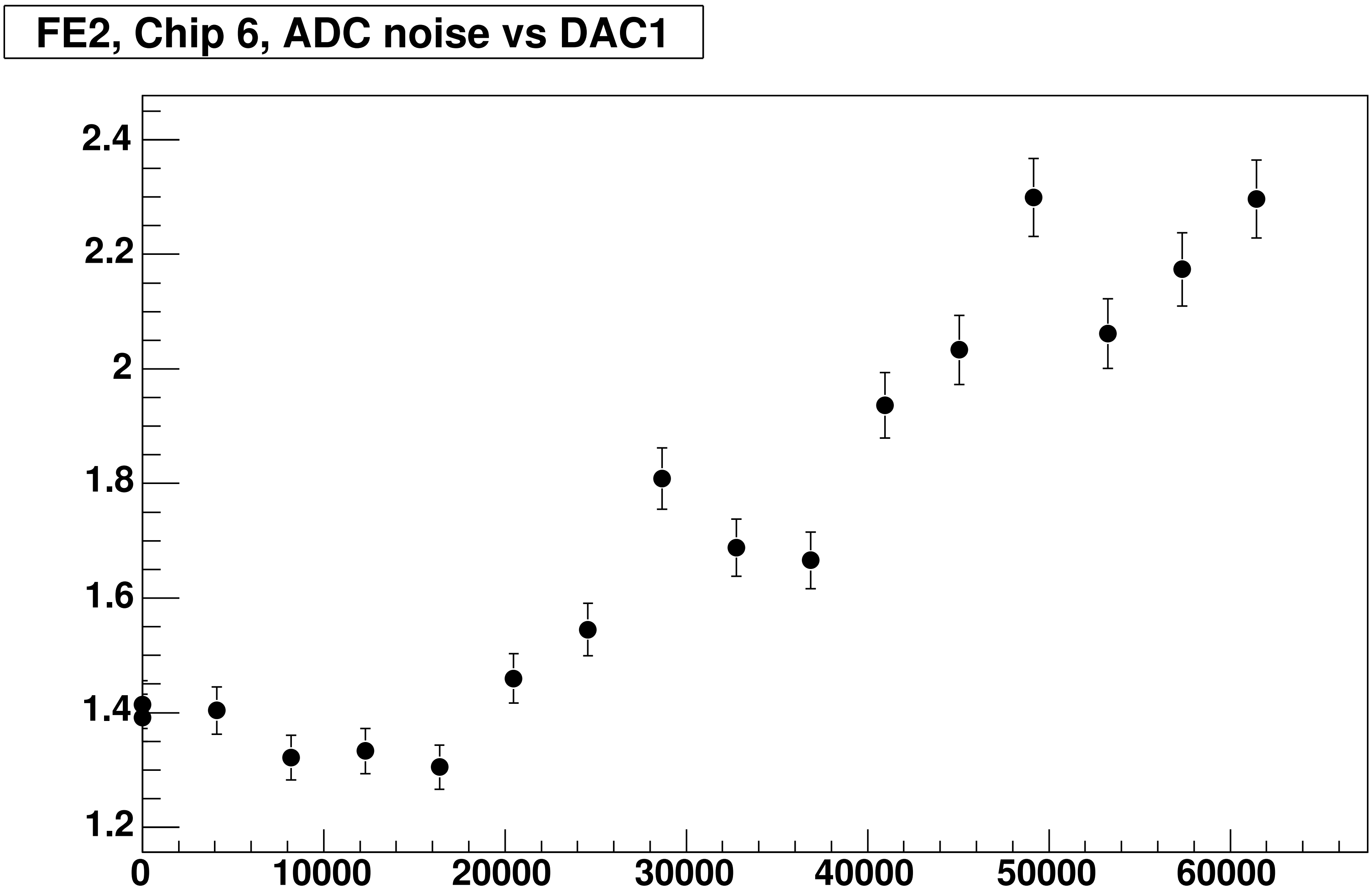

FE2, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE2, Chip 6, ADC mean vs DAC0
χ^2 / ndf 8.97 / 11
p0 -36.53 ± 0.03926
p1 3.19e-07 ± 1.085e-06
-36.35
-36.4
-36.45
-36.5
-36.55
-36.6
-36.65
0
10000
20000
30000
40000
50000
60000

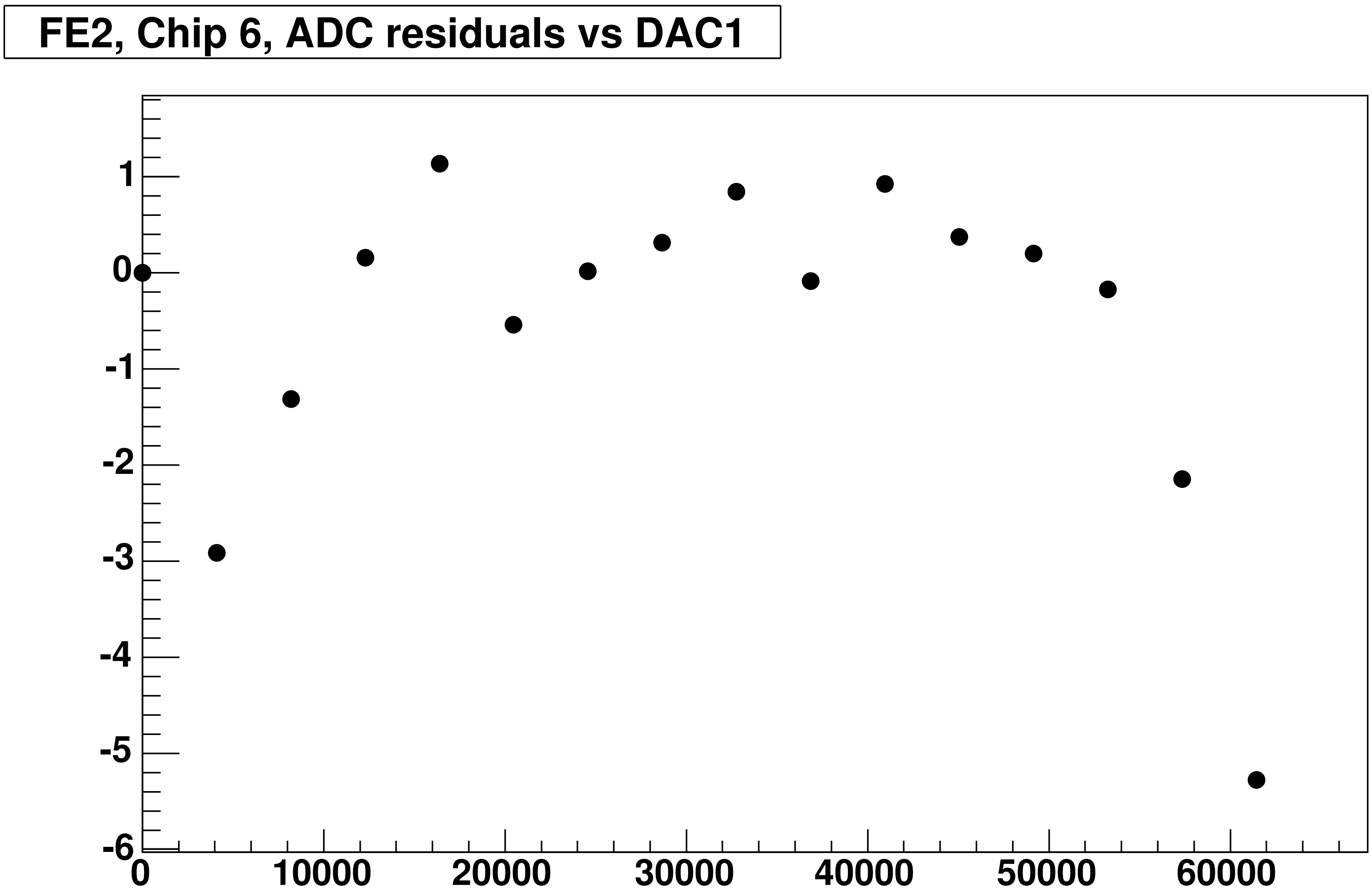

FE2, Chip 6, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

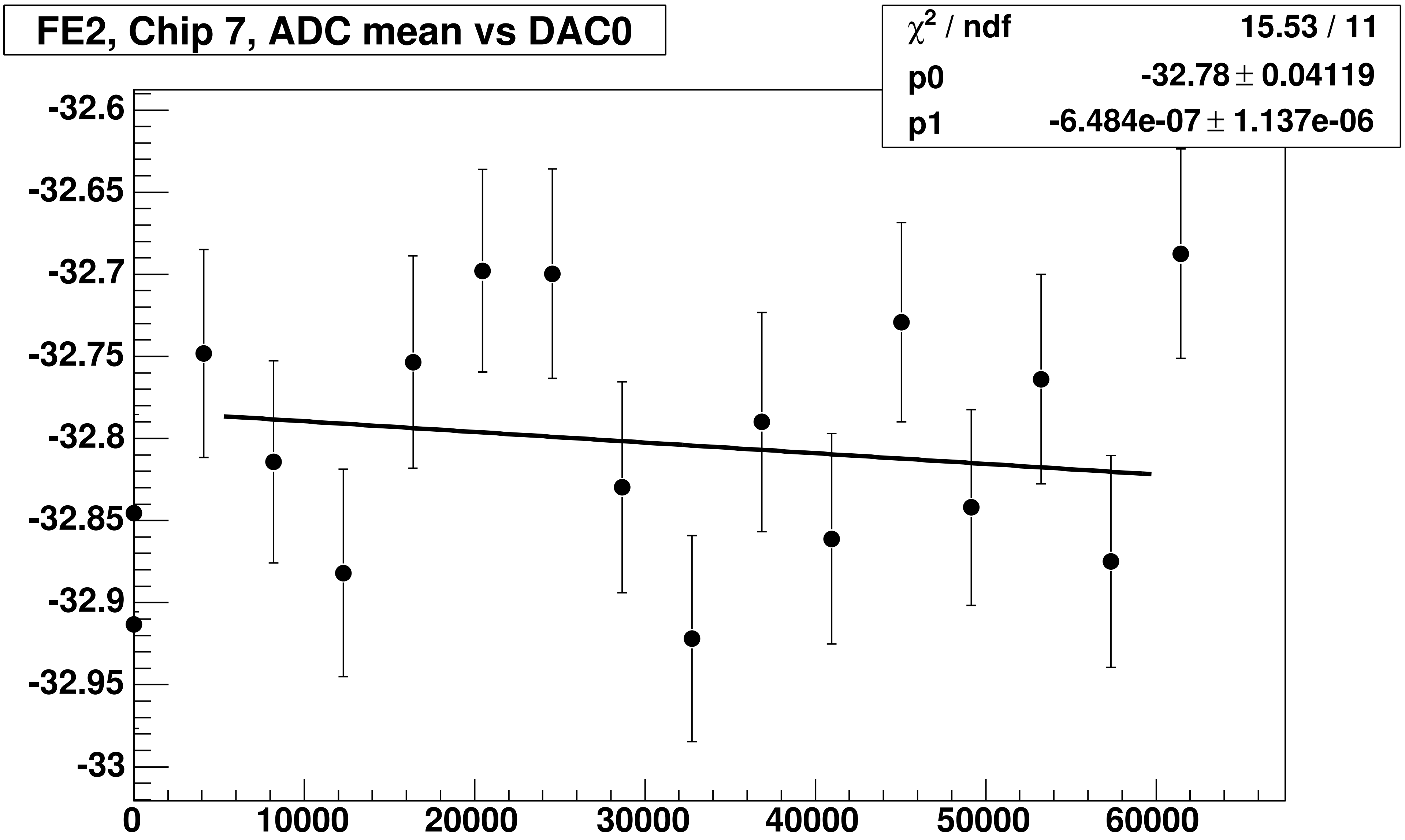

FE2, Chip 6, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000


FE2, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1973 / 11
p0 -34.15 ± 0.04013
p1 0.451 ± 1.292e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

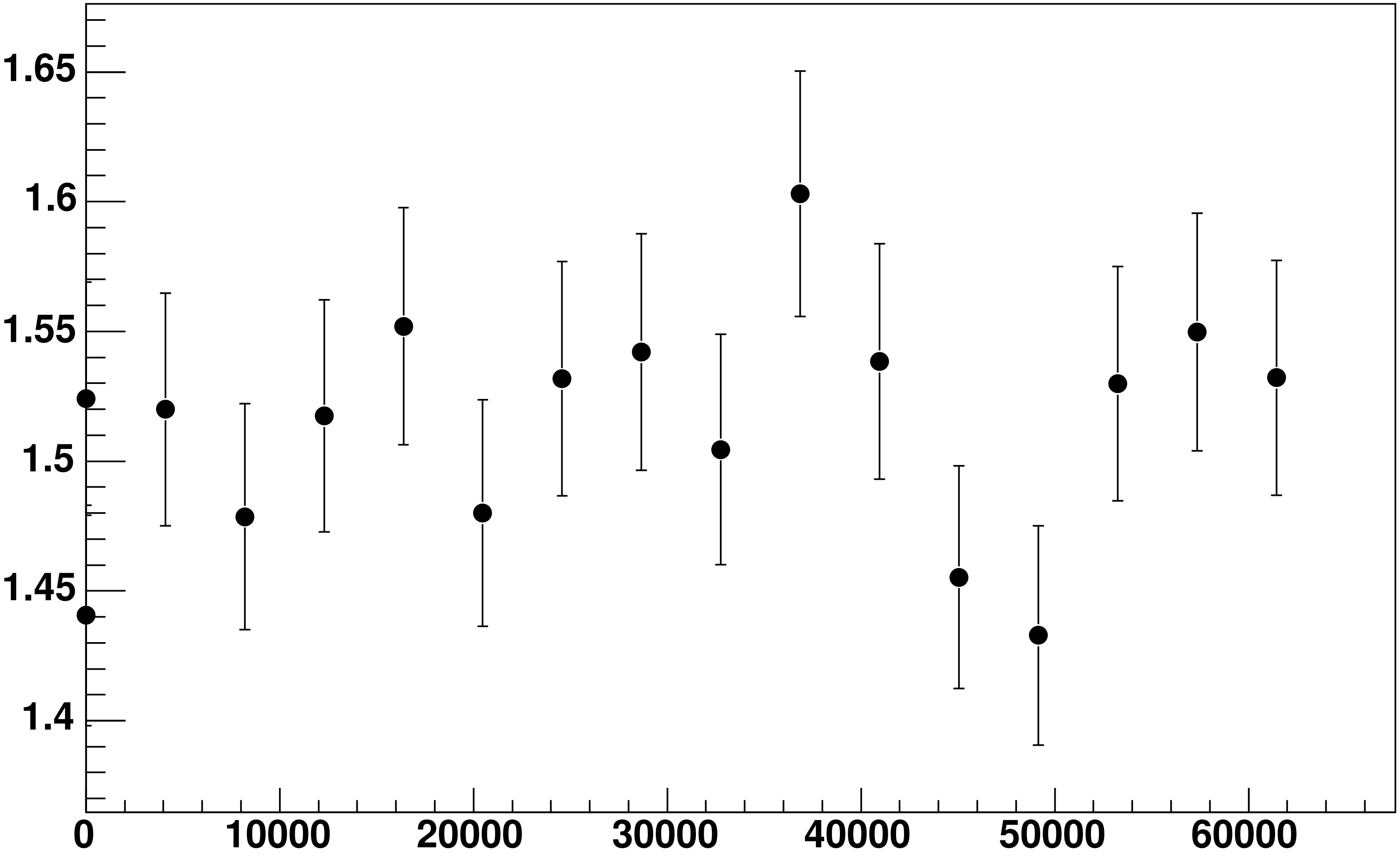


FE2, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

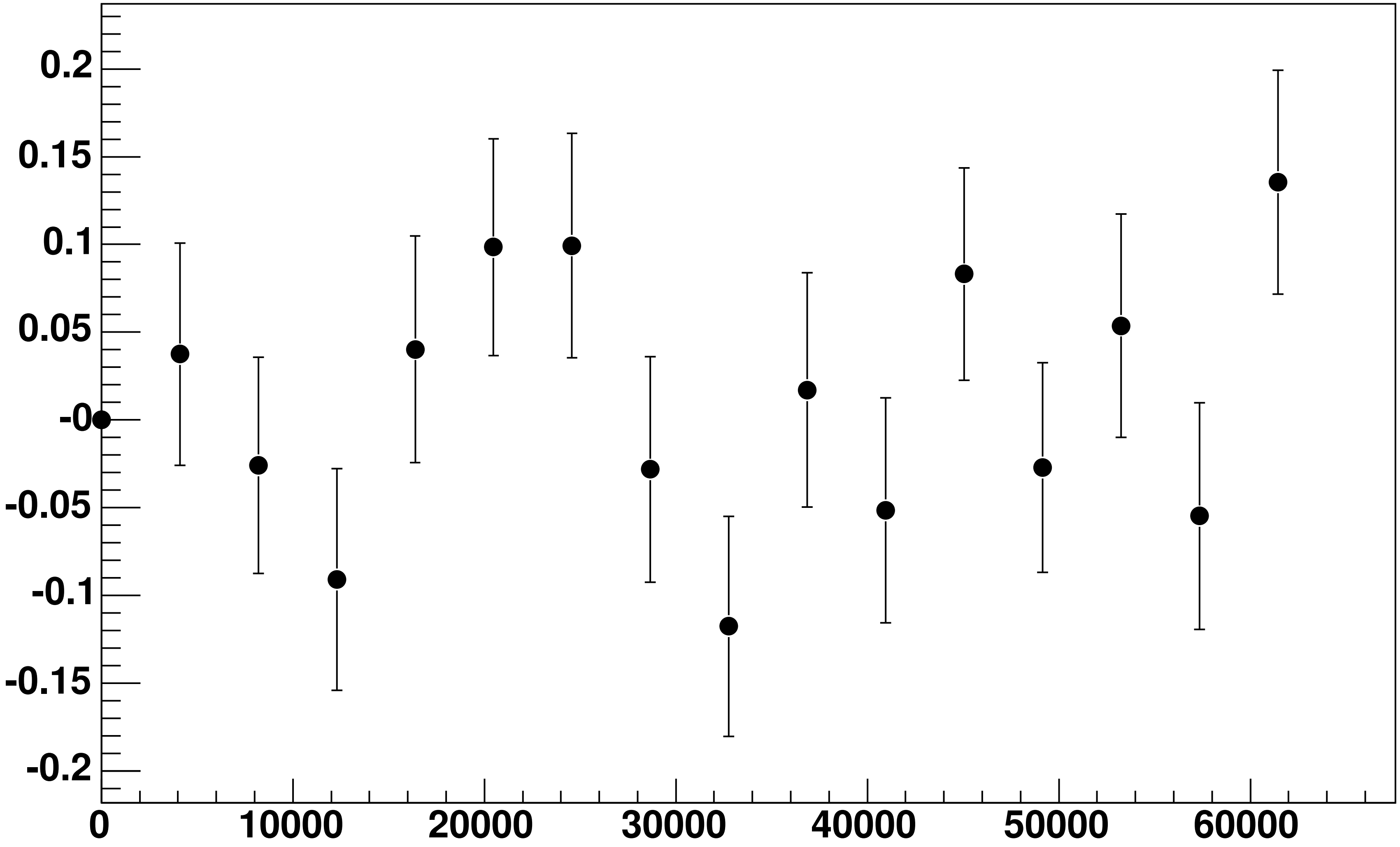

FE2, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

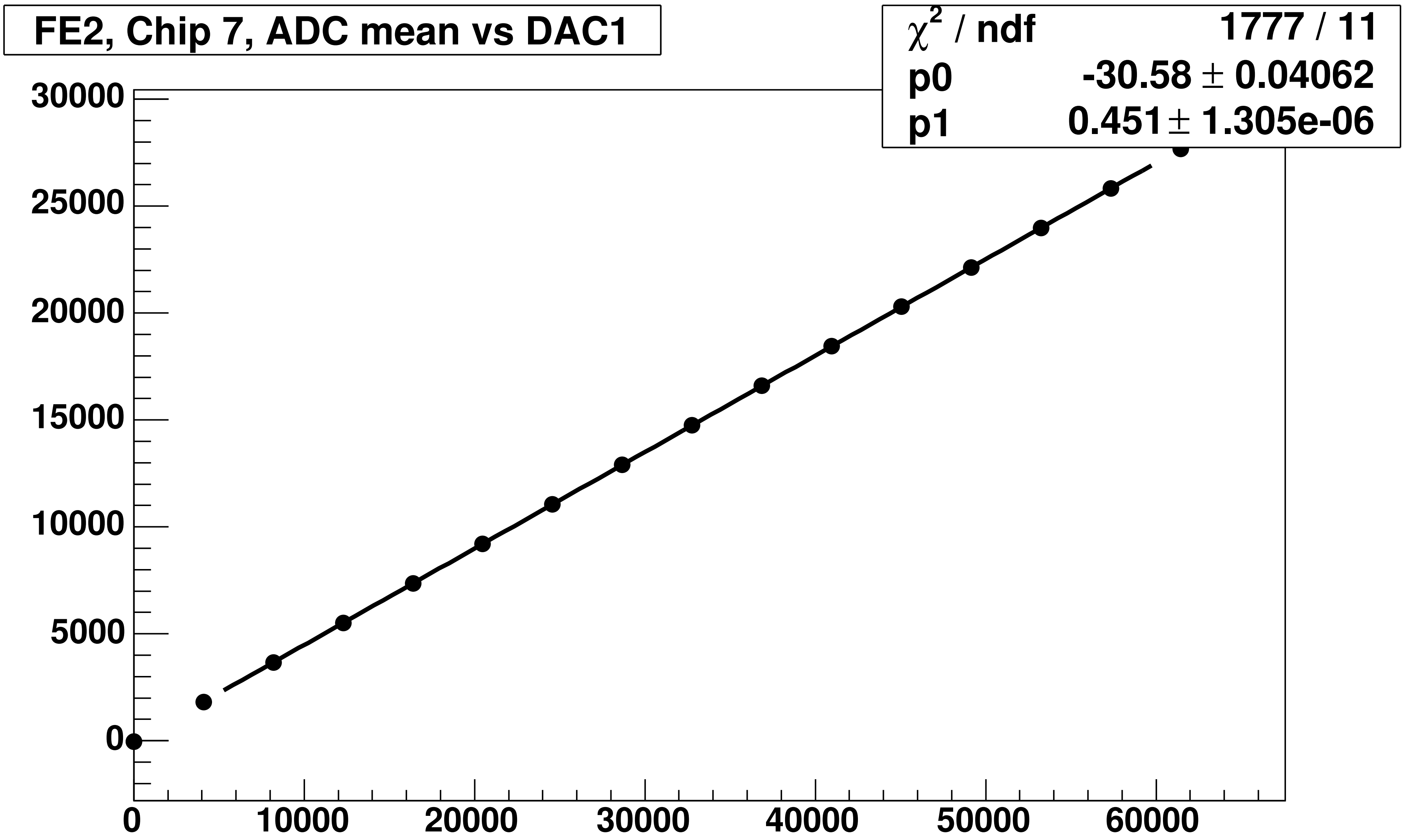

FE2, Chip 7, ADC mean vs DAC0
χ^2 / ndf 15.53 / 11
p0 -32.78 ± 0.04119
p1 -6.484e-07 ± 1.137e-06
-32.6
-32.65
-32.7
-32.75
-32.8
-32.85
-32.9
-32.95
-33
0
10000
20000
30000
40000
50000
60000

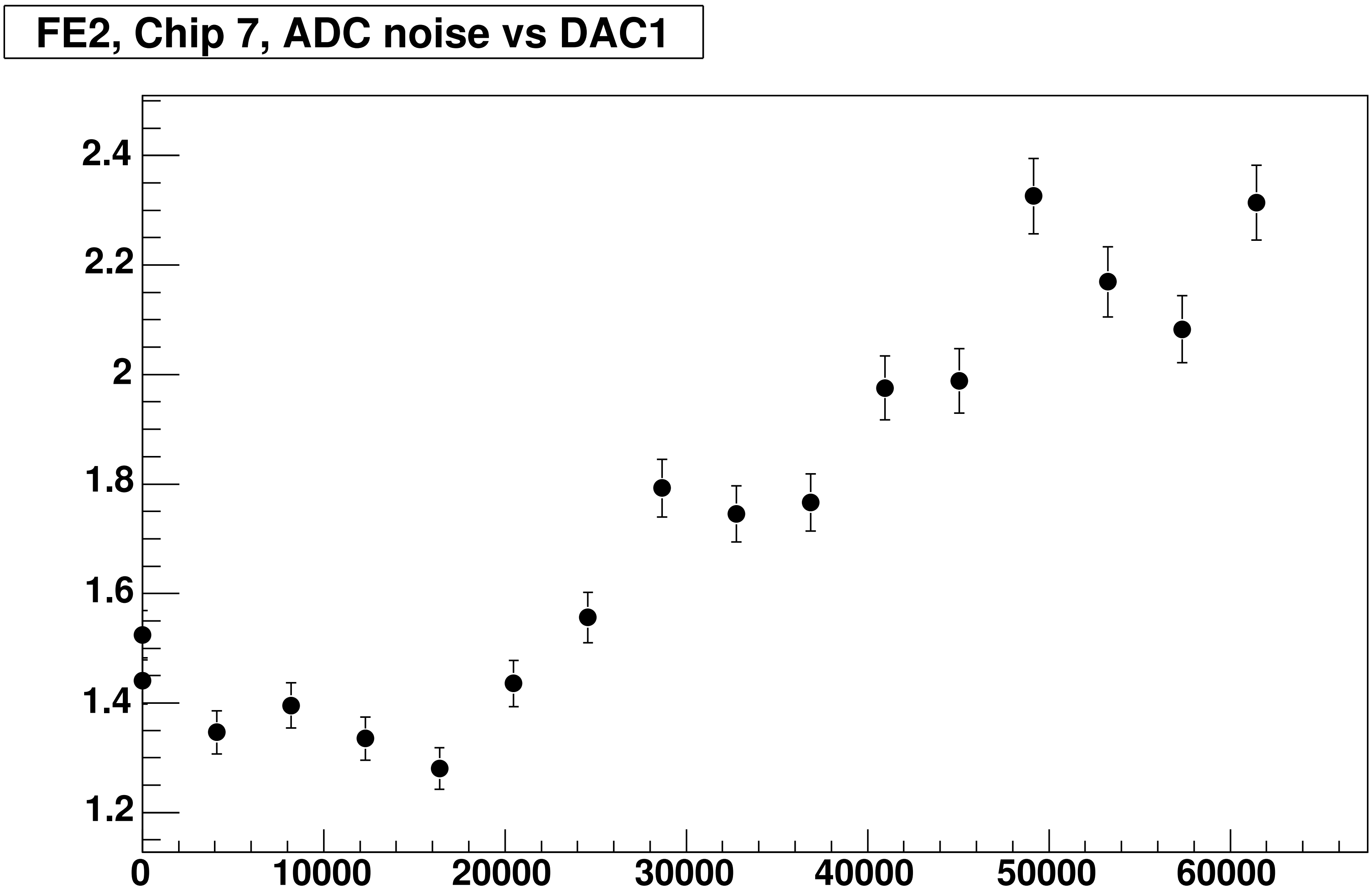
FE2, Chip 7, ADC noise vs DAC0



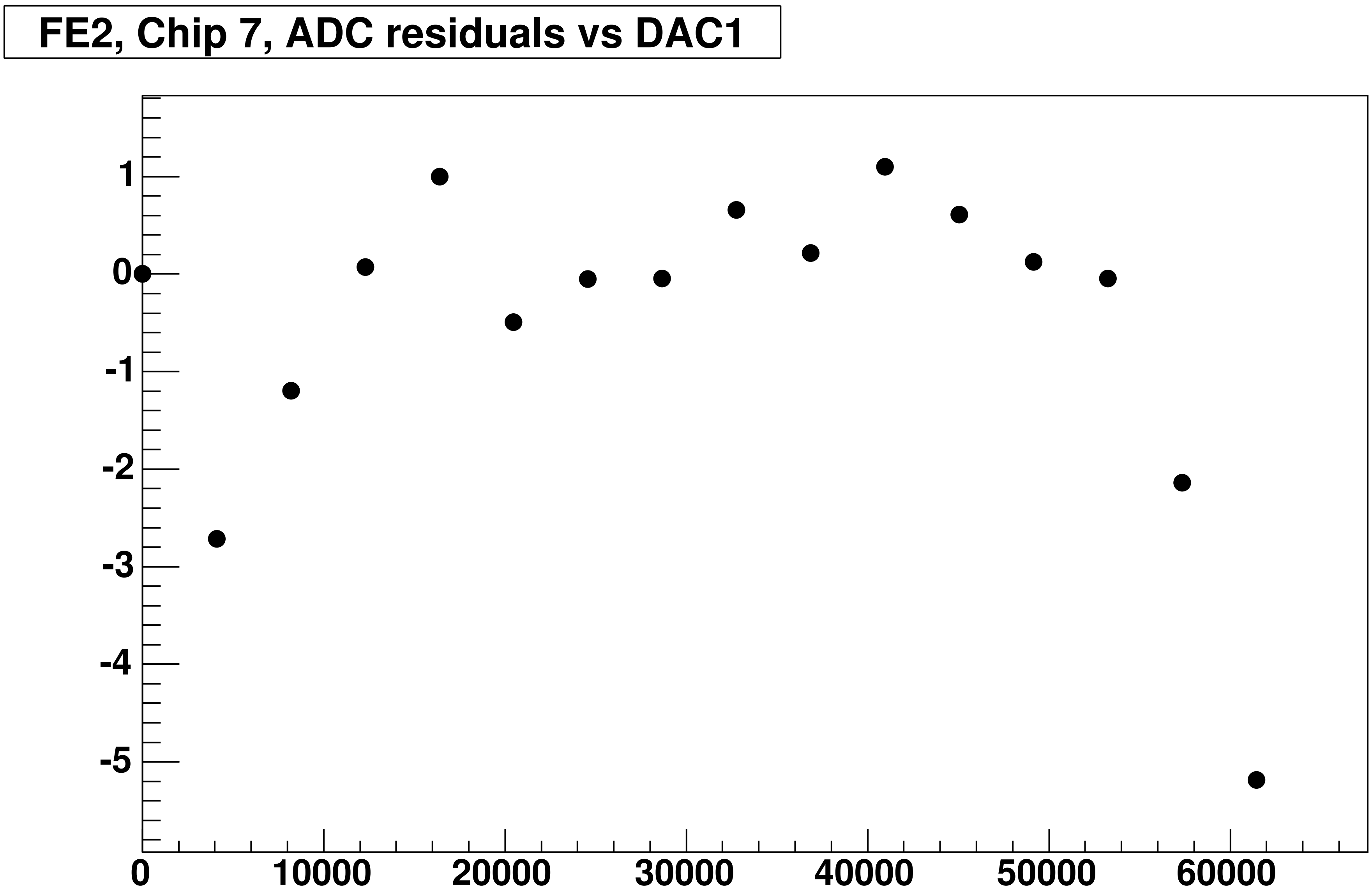
FE2, Chip 7, ADC residuals vs DAC0

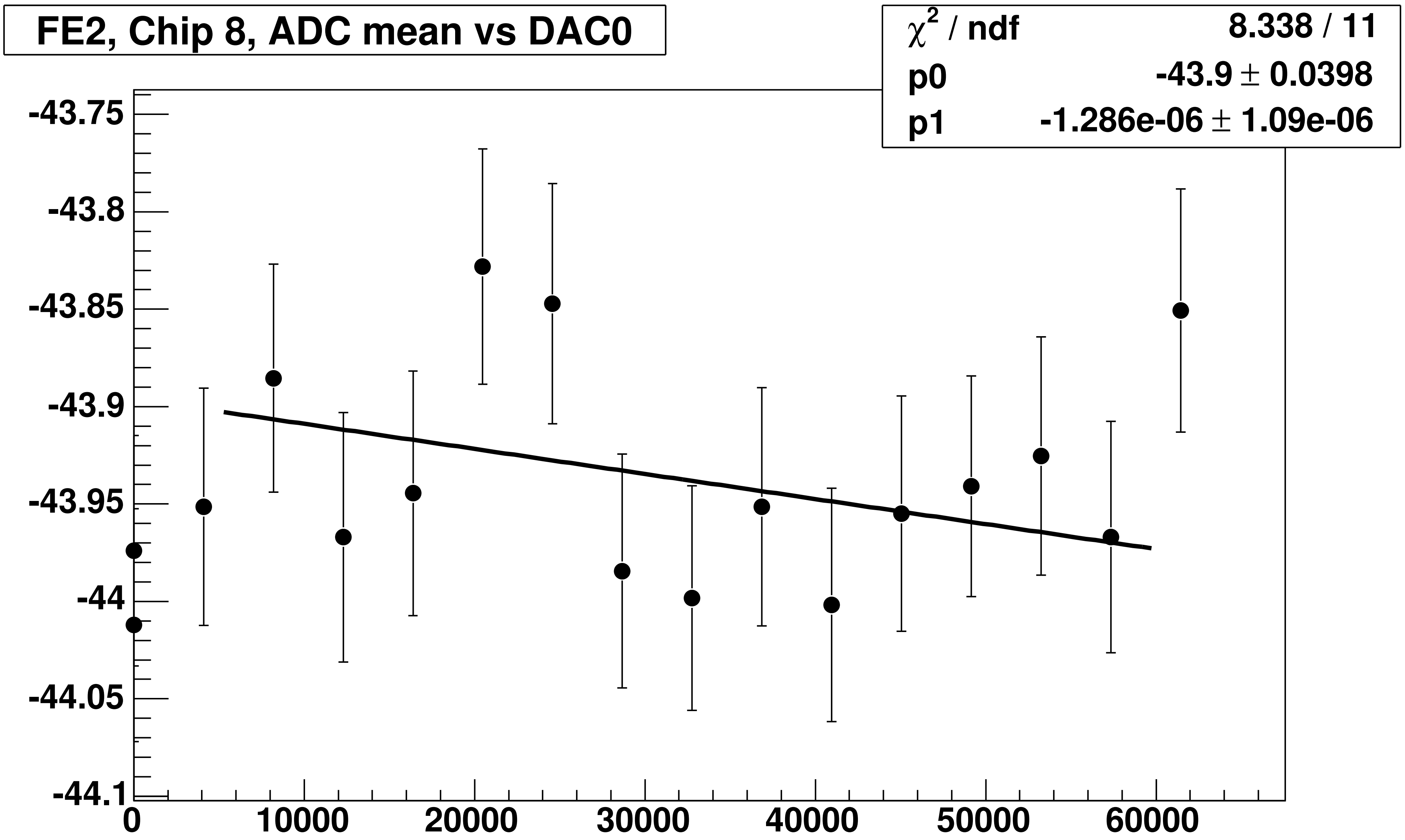


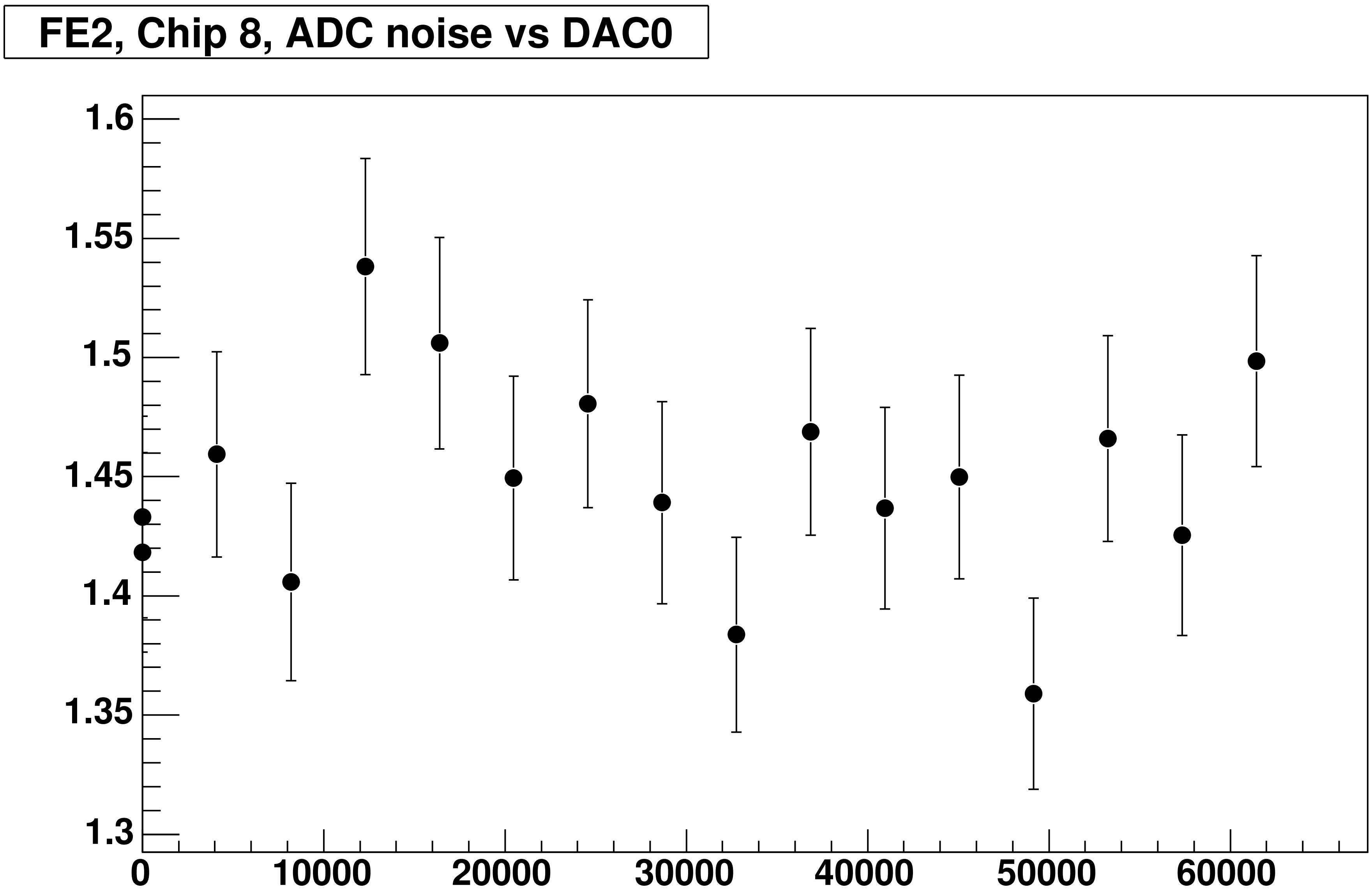

FE2, Chip 7, ADC mean vs DAC1
χ² / ndf 1777 / 11
p0 -30.58 ± 0.04062
p1 0.451 ± 1.305e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



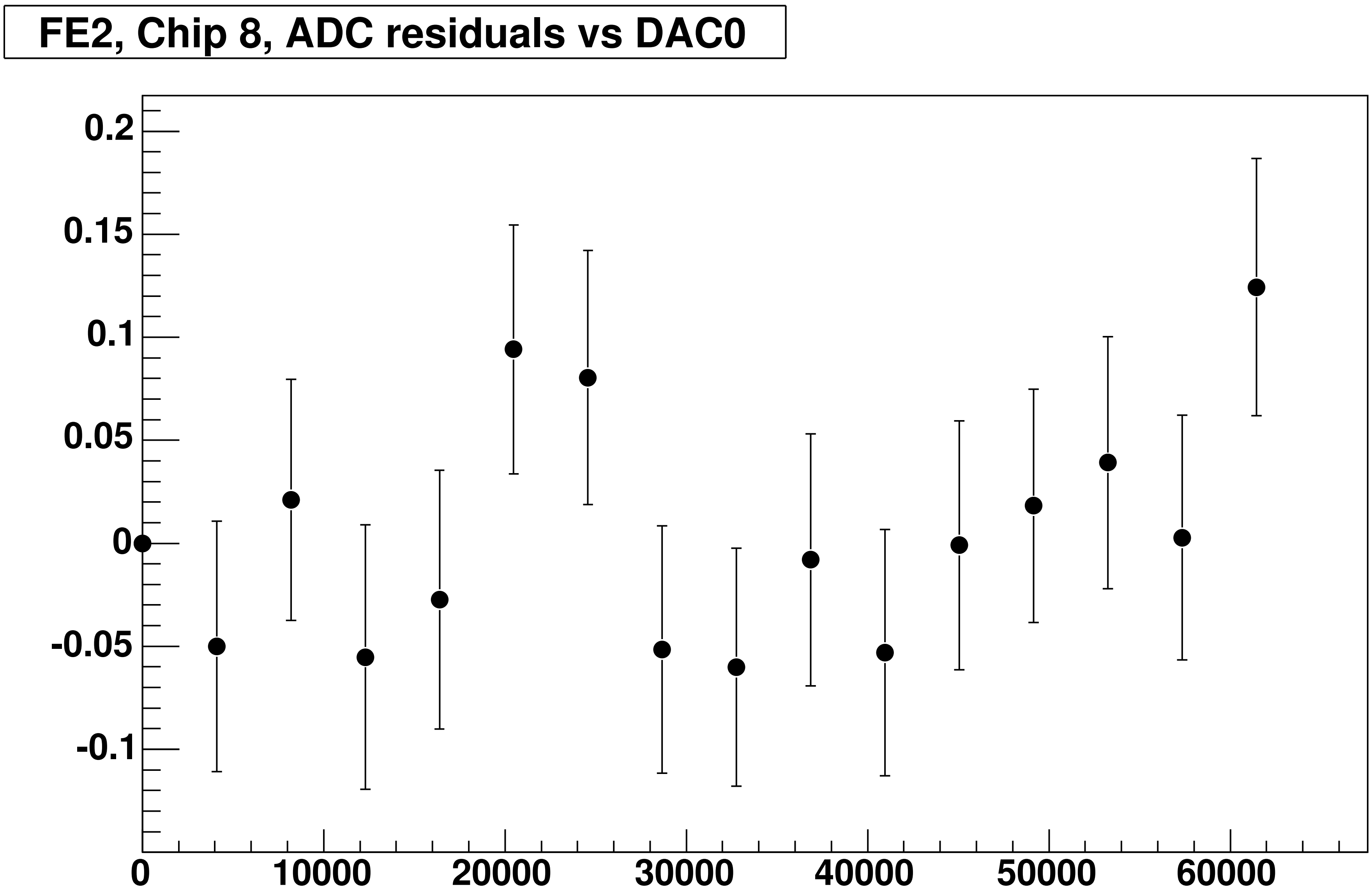
FE2, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

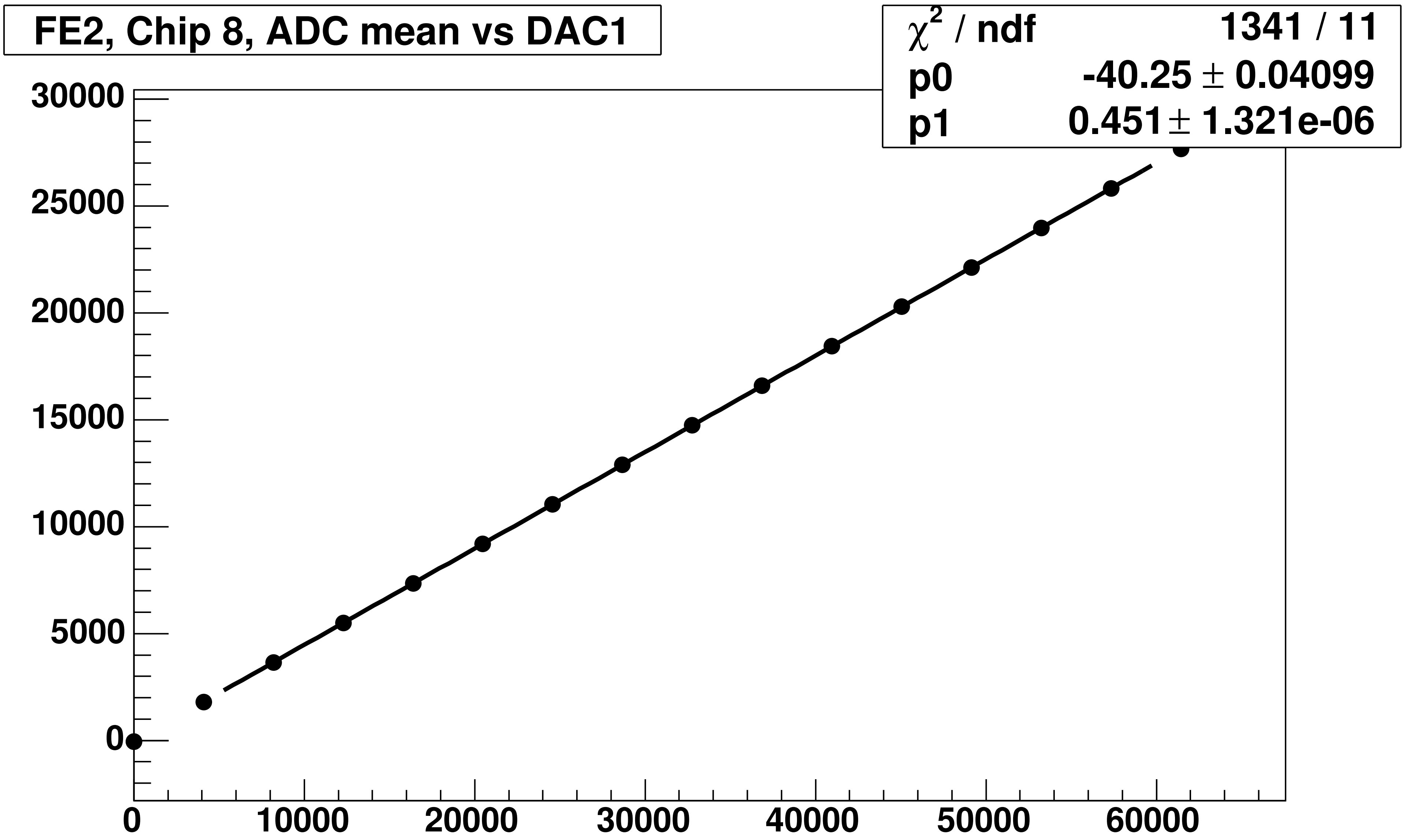

FE2, Chip 7, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

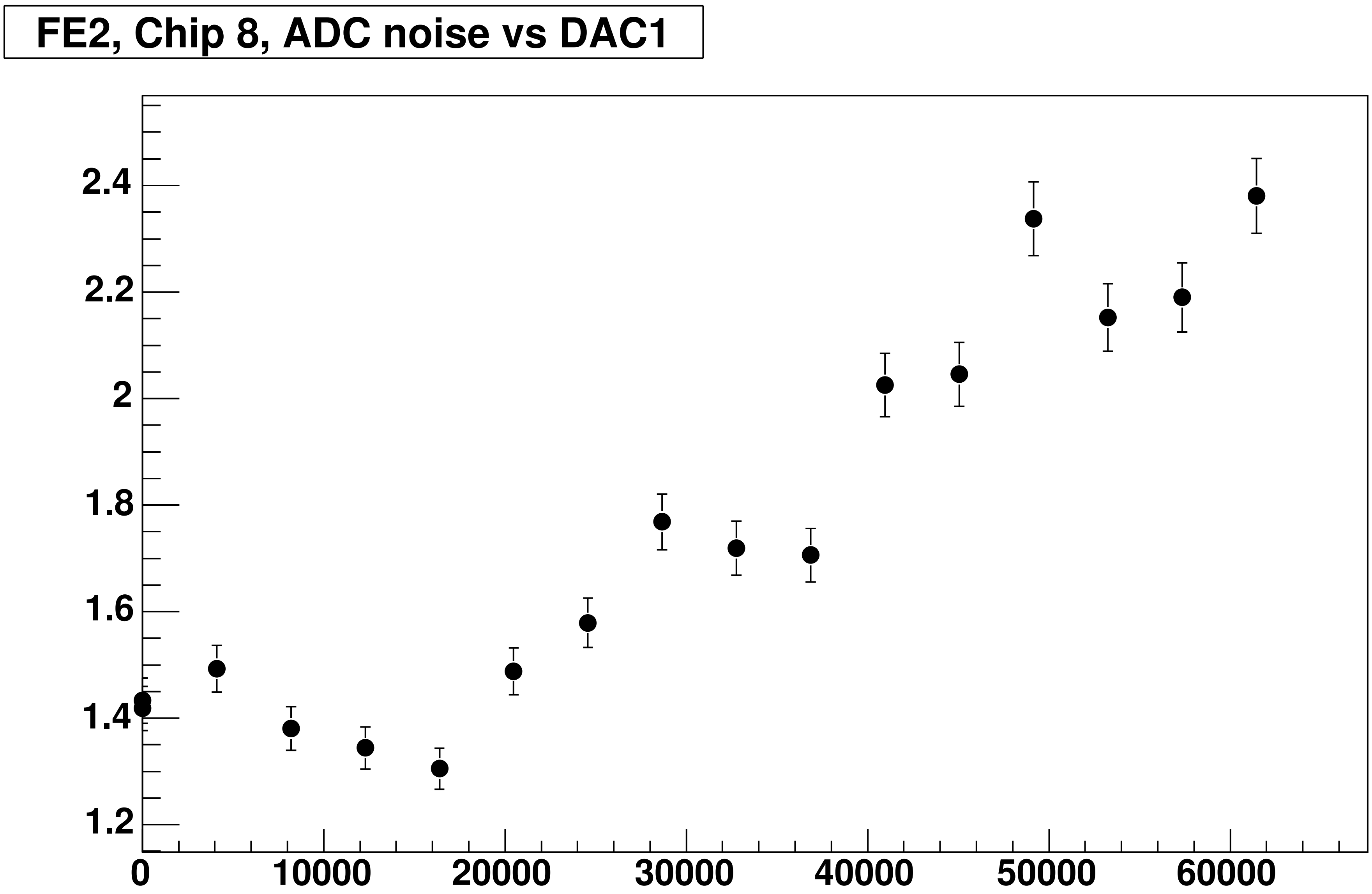

FE2, Chip 8, ADC mean vs DAC0
χ² / ndf 8.338 / 11
p0 -43.9 ± 0.0398
p1 -1.286e-06 ± 1.09e-06
-43.75
-43.8
-43.85
-43.9
-43.95
-44
-44.05
-44.1
0
10000
20000
30000
40000
50000
60000

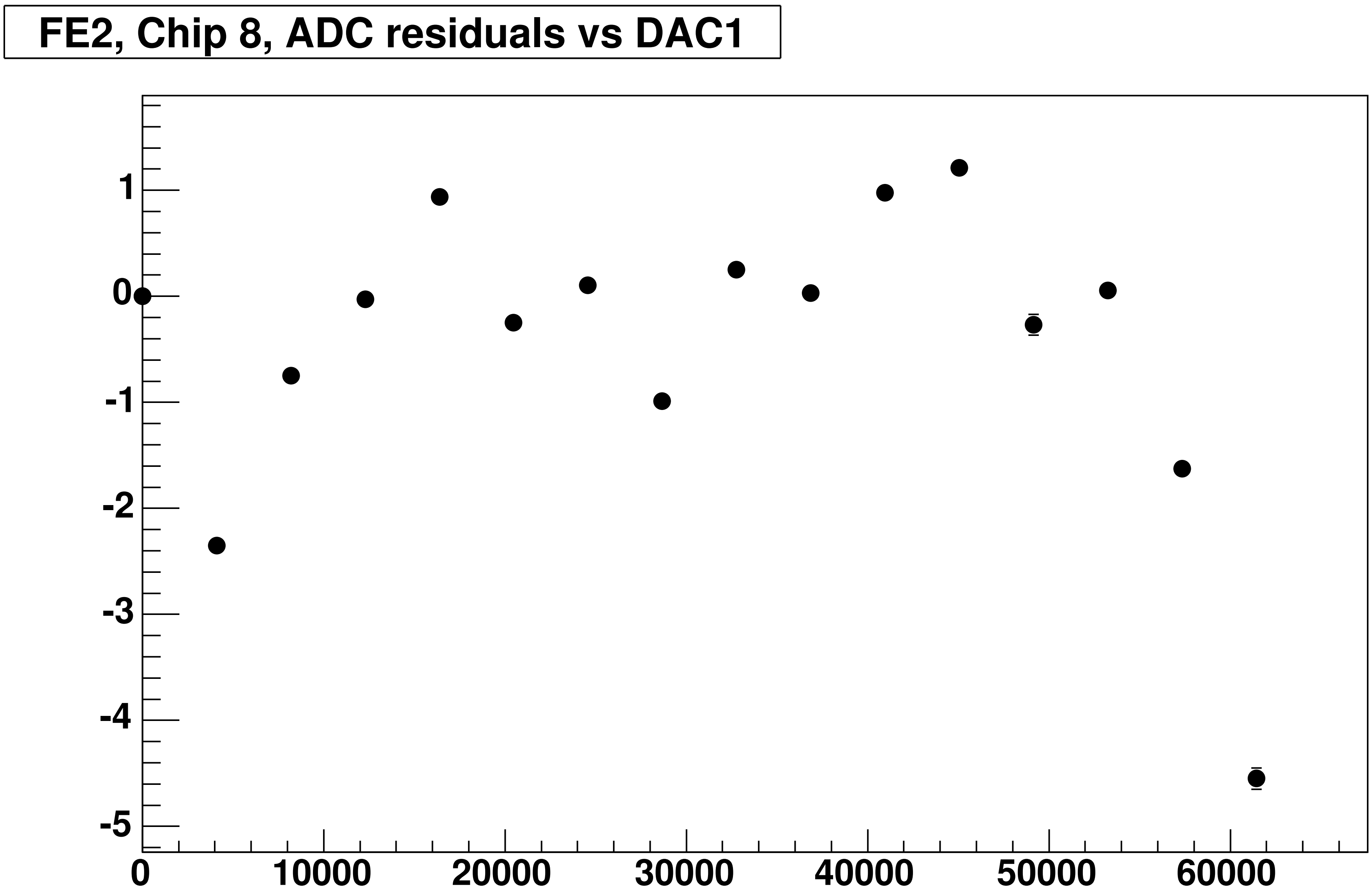


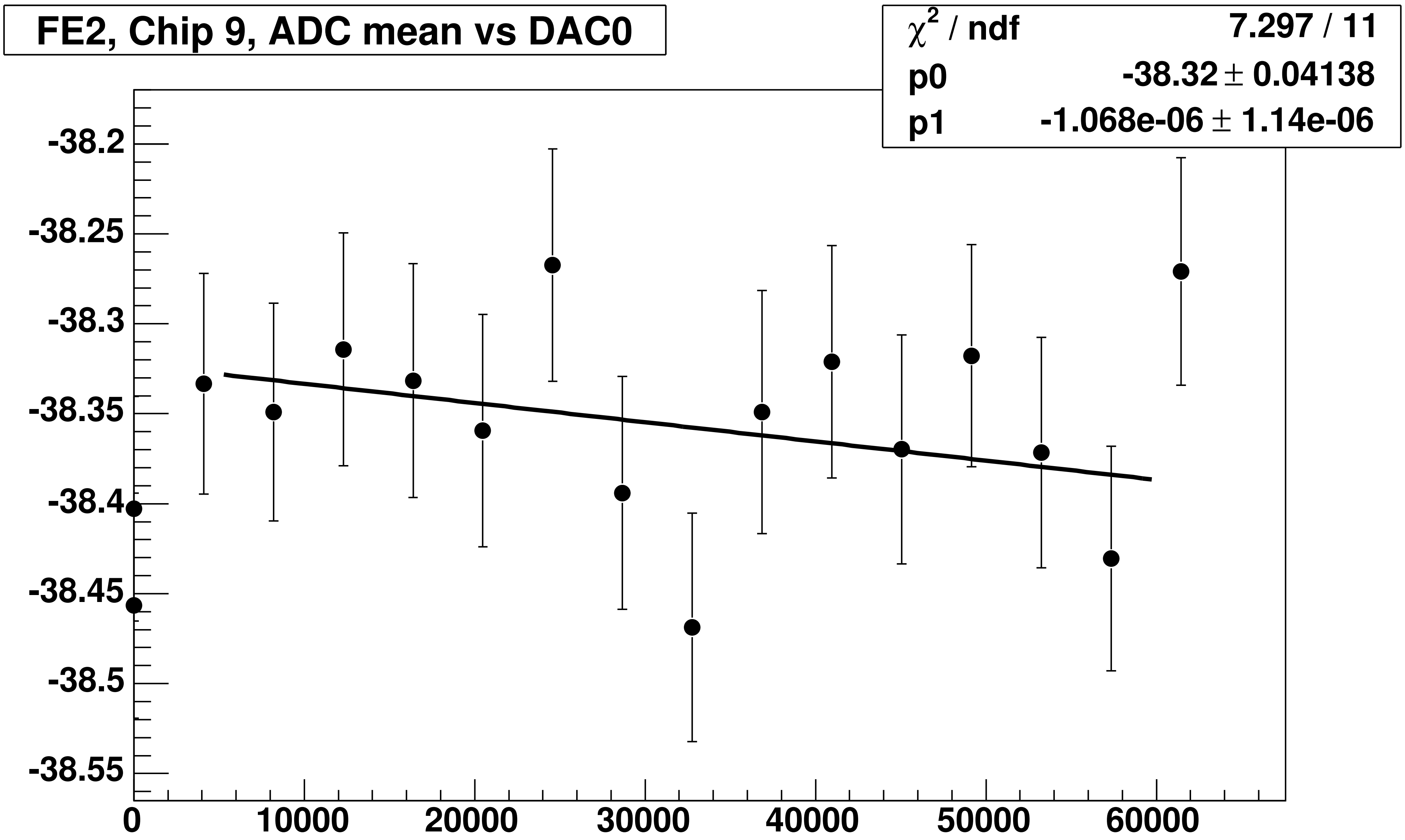
FE2, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

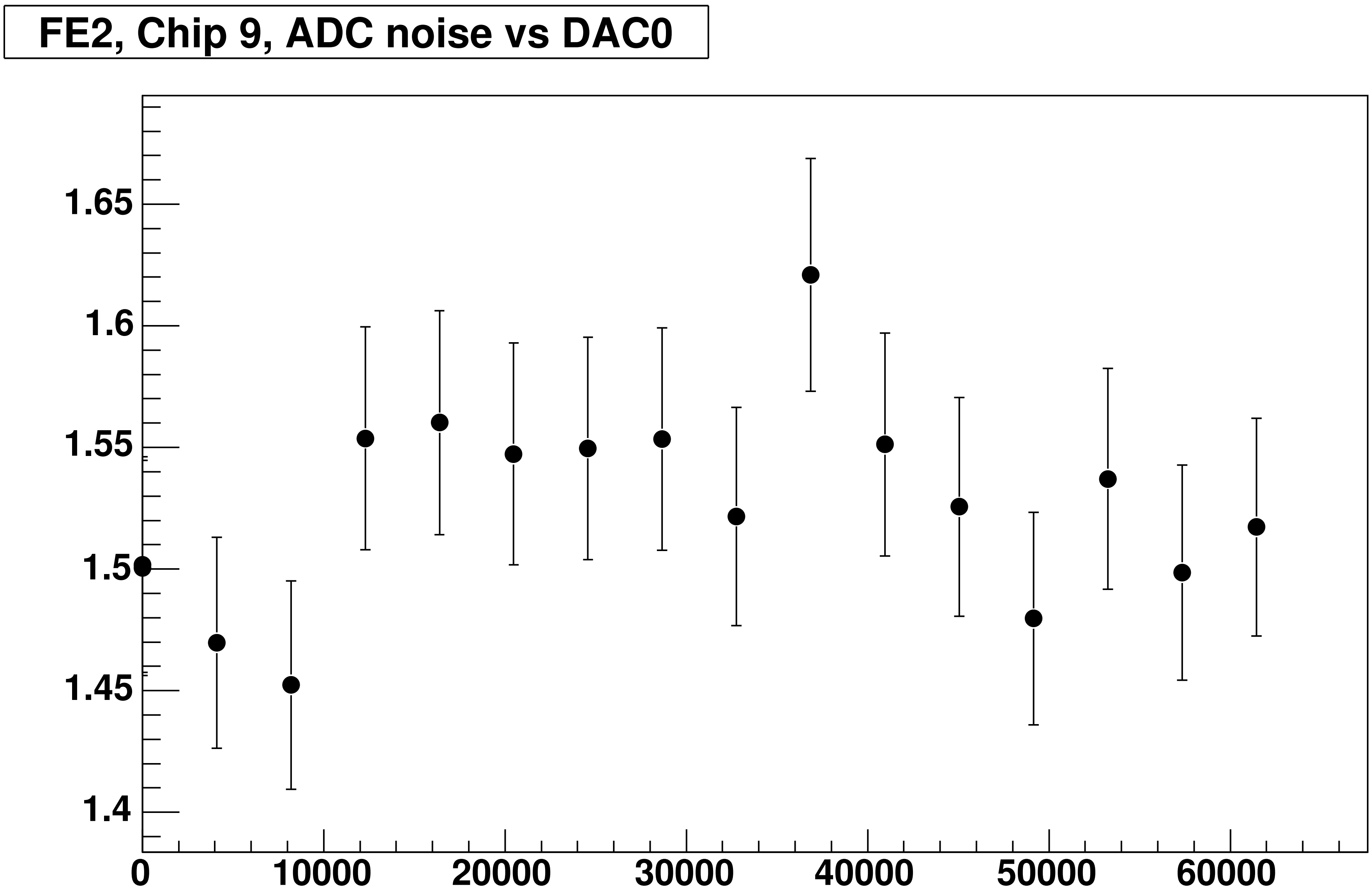

FE2, Chip 8, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

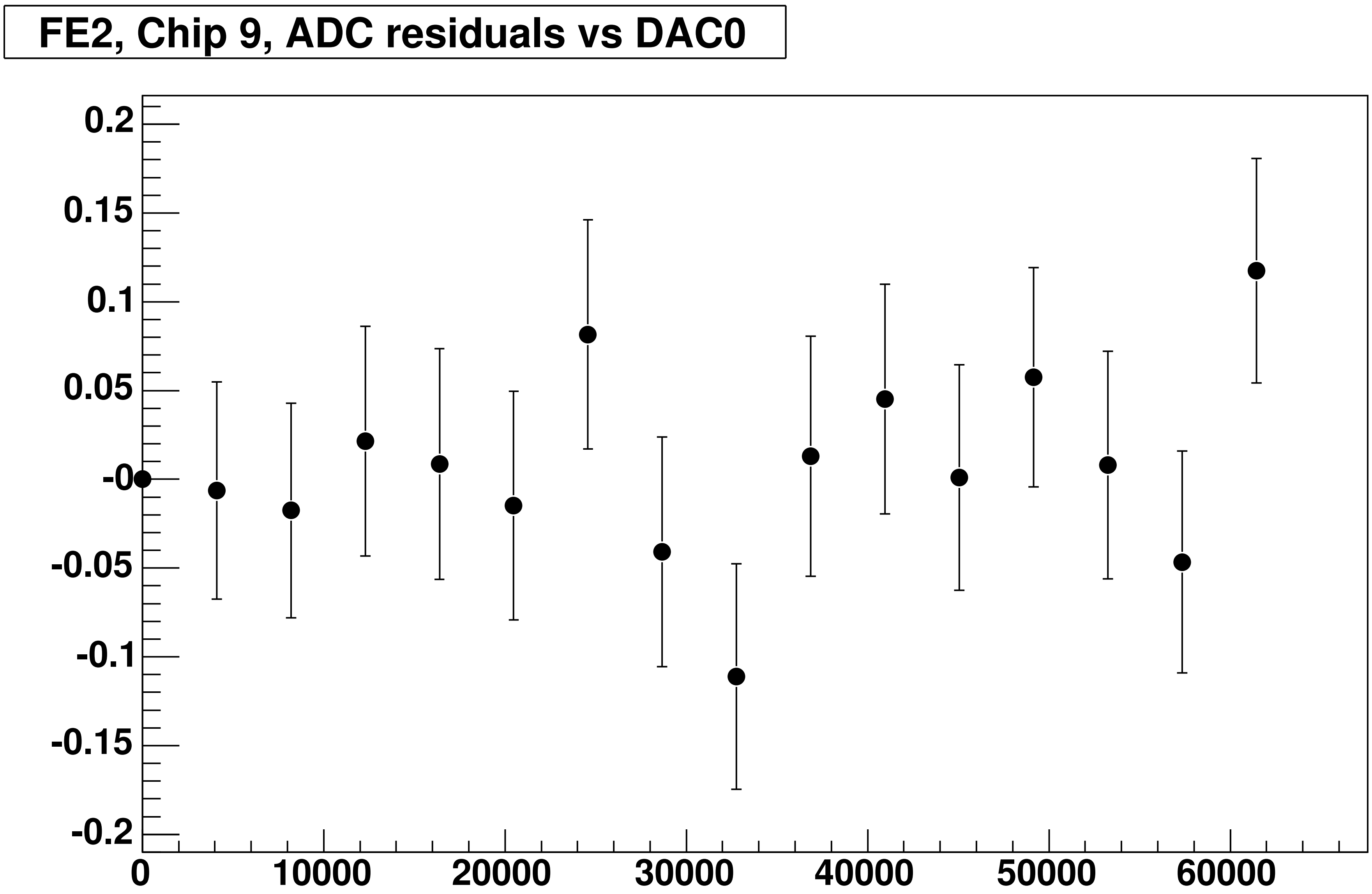

FE2, Chip 8, ADC mean vs DAC1
χ2 / ndf 1341 / 11
p0 -40.25 ± 0.04099
p1 0.451 ± 1.321e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

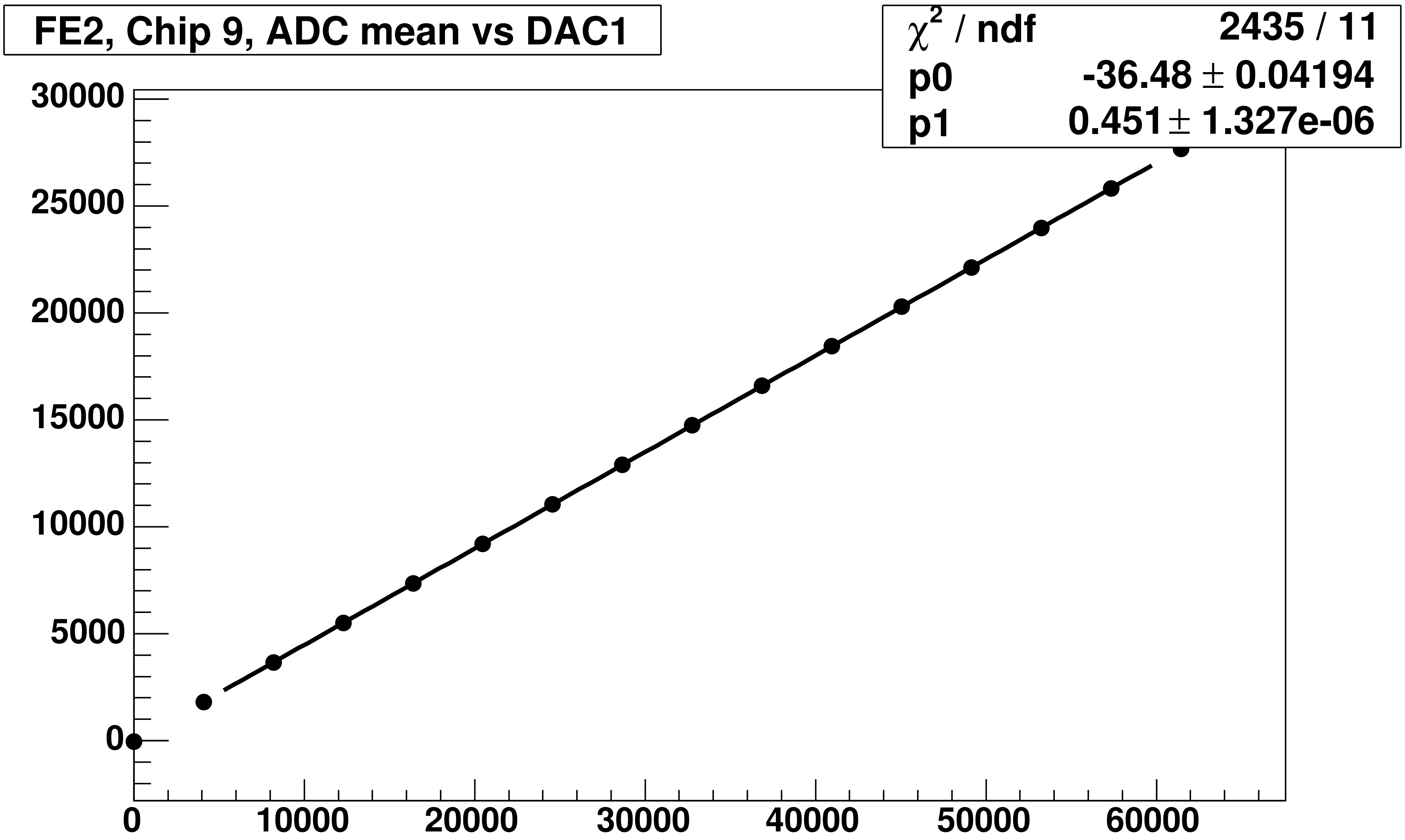

FE2, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE2, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

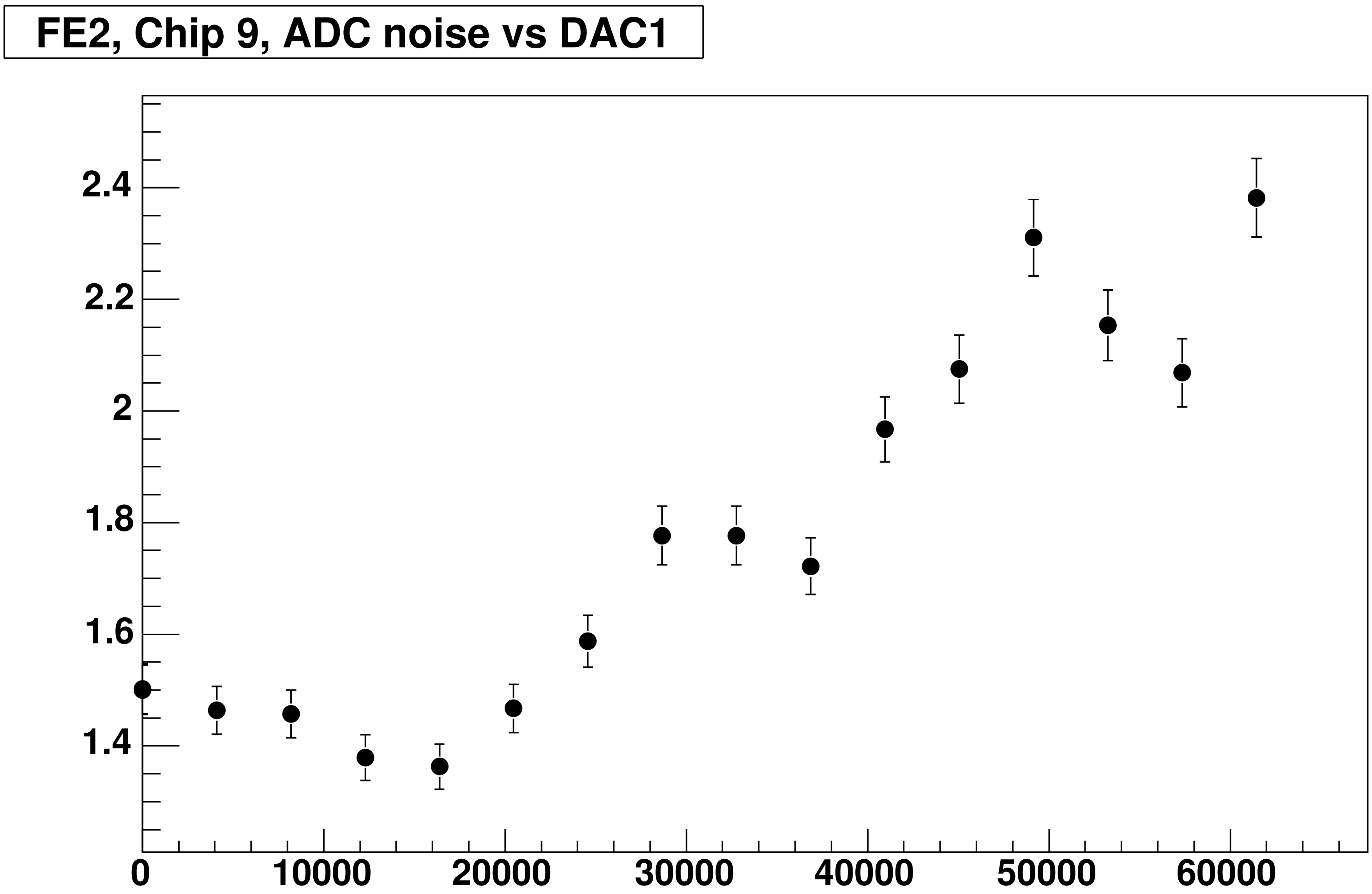

FE2, Chip 9, ADC mean vs DAC0
χ^2 / ndf 7.297 / 11
p0 -38.32 ± 0.04138
p1 -1.068e-06 ± 1.14e-06
-38.2
-38.25
-38.3
-38.35
-38.4
-38.45
-38.5
-38.55
0
10000
20000
30000
40000
50000
60000


FE2, Chip 9, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

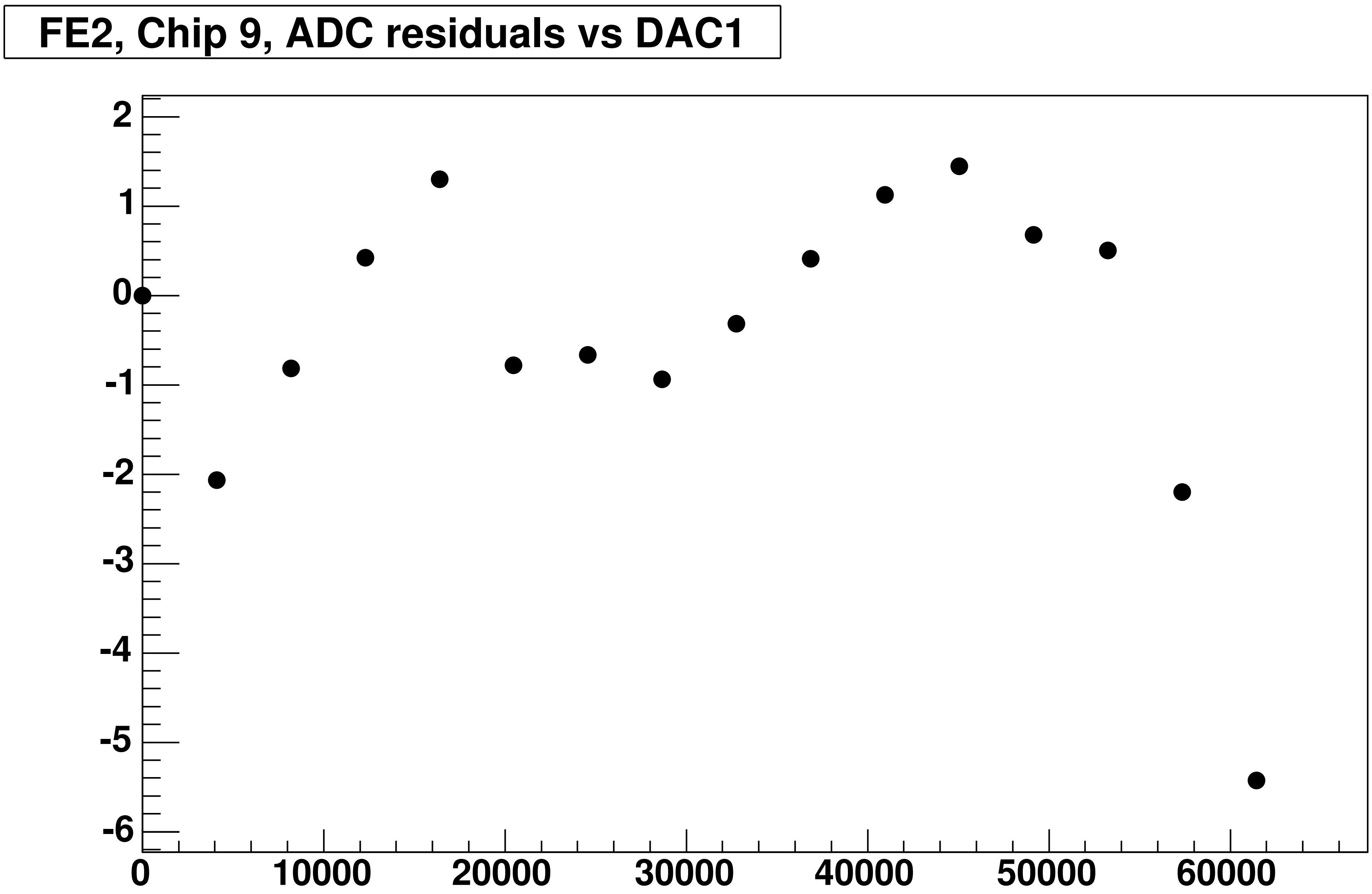

FE2, Chip 9, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

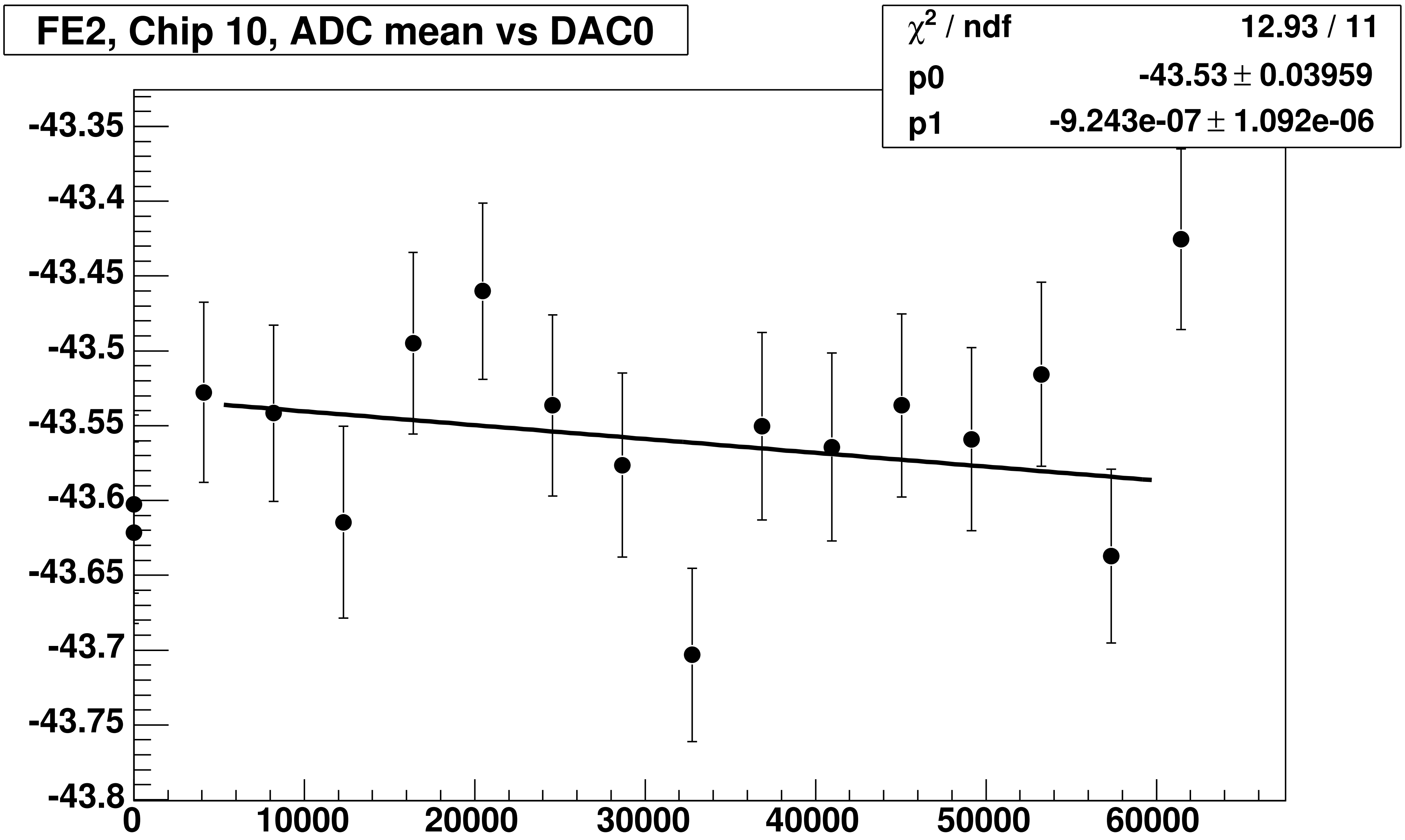


FE2, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2435 / 11
p0 -36.48 ± 0.04194
p1 0.451 ± 1.327e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

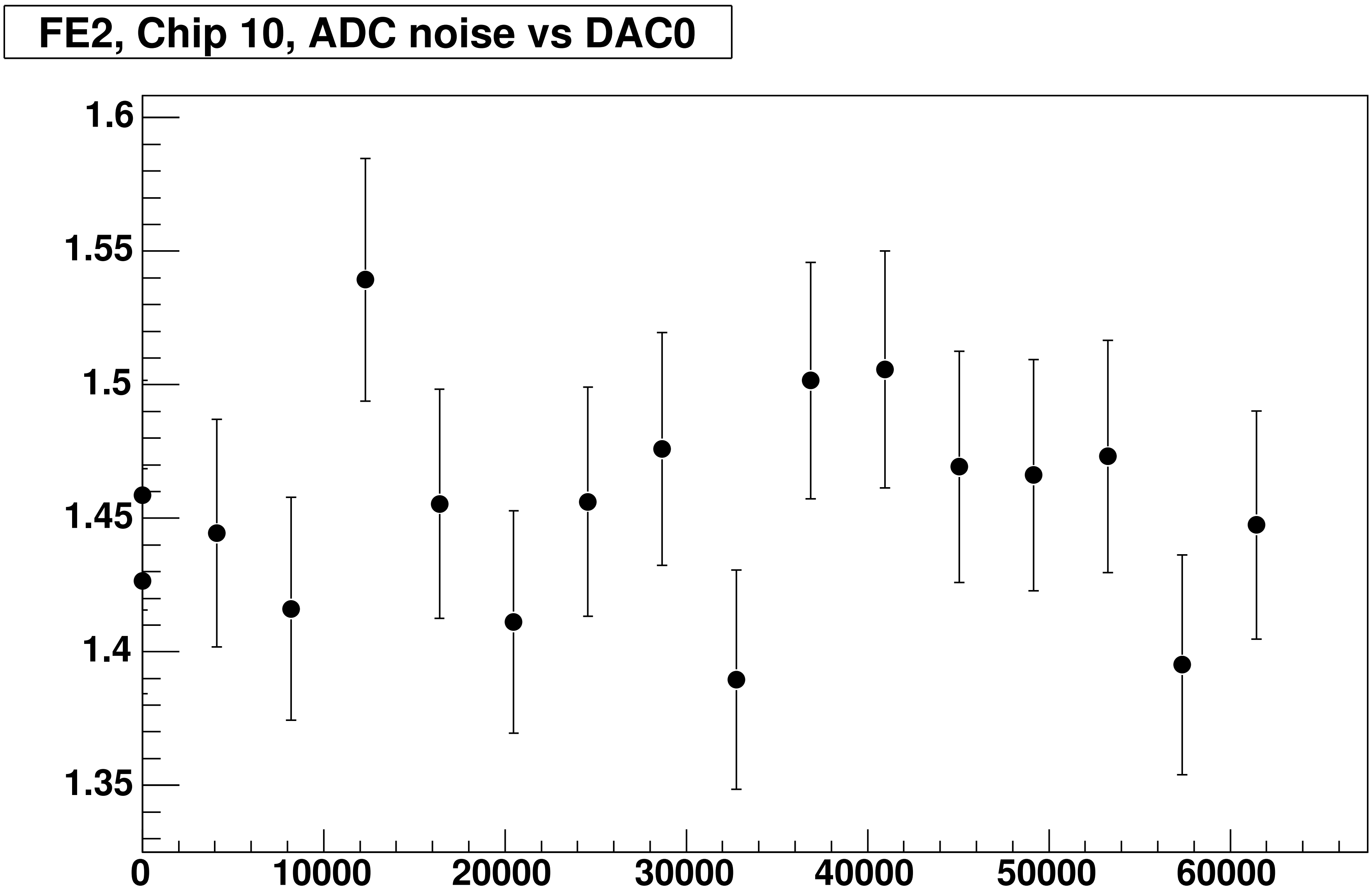


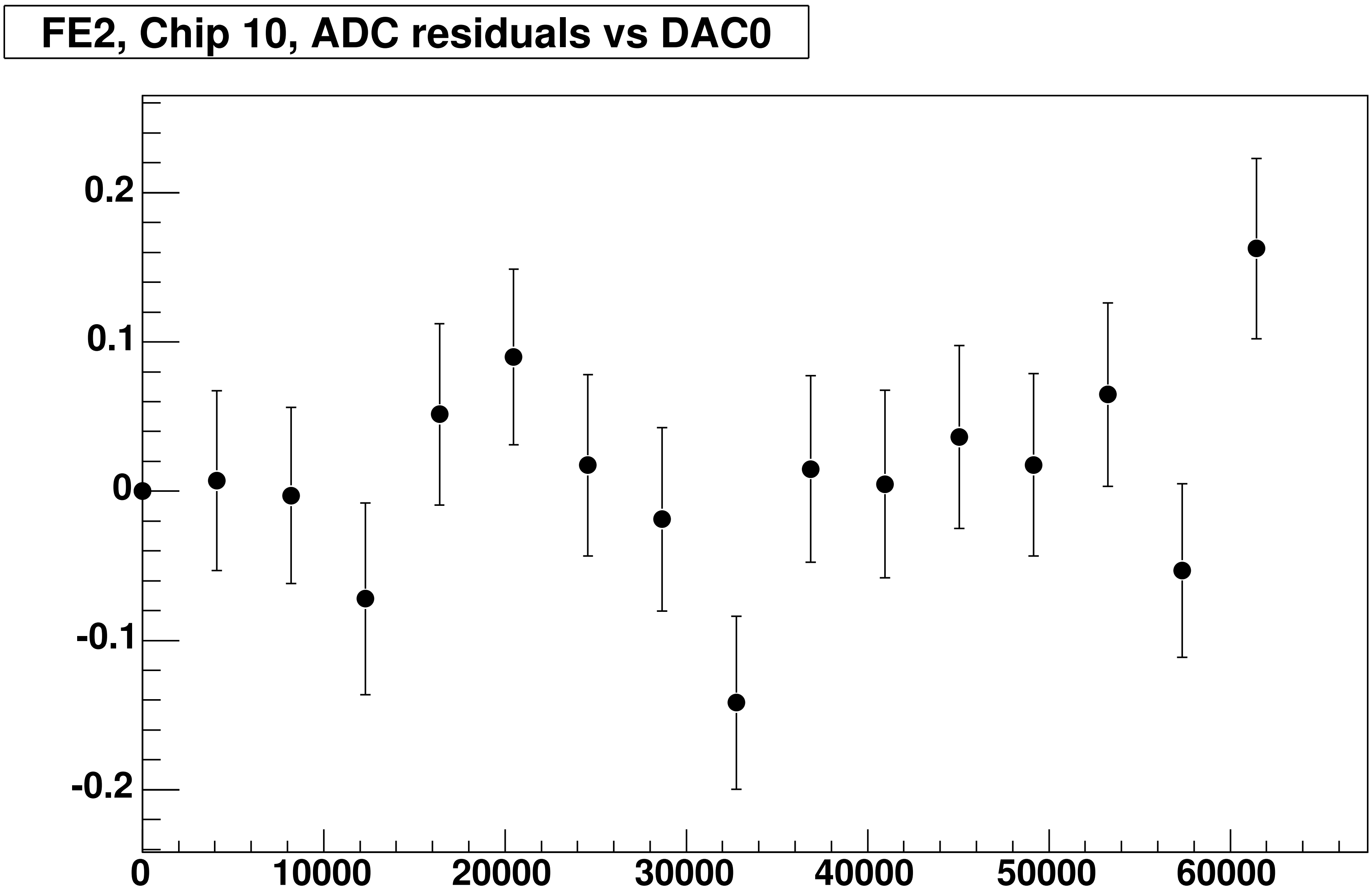
FE2, Chip 9, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE2, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

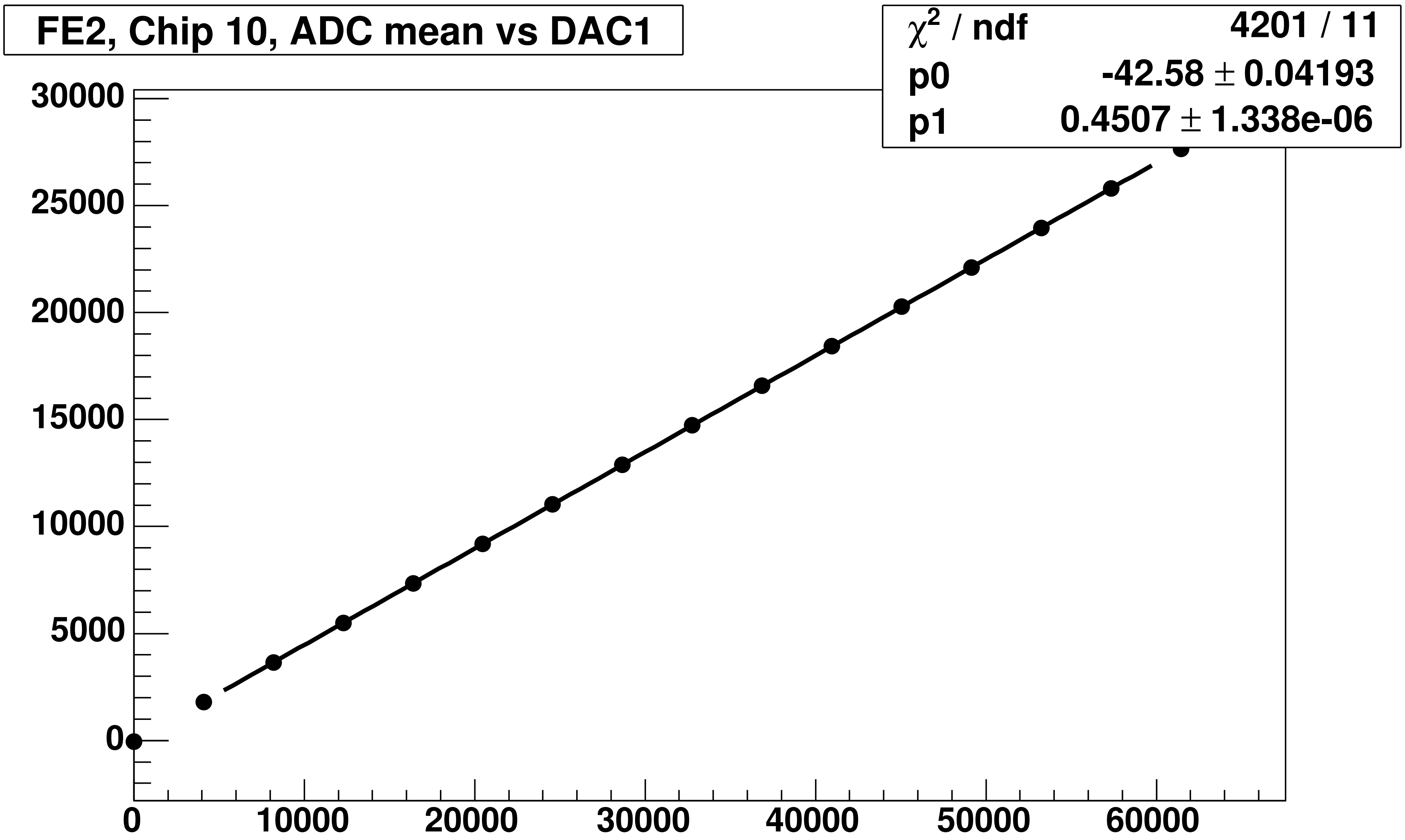


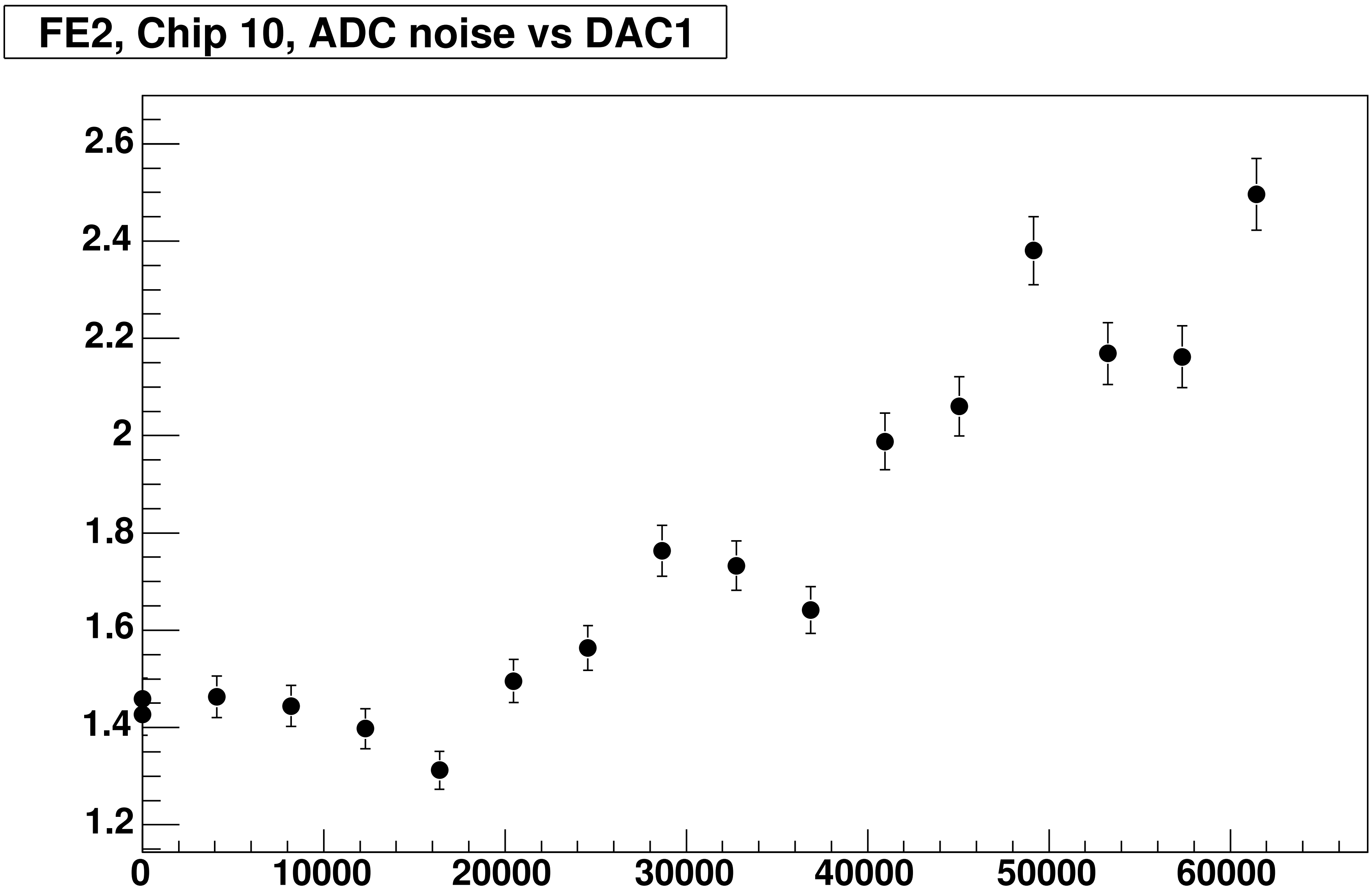
FE2, Chip 10, ADC mean vs DAC0
χ^2 / ndf 12.93 / 11
p0 -43.53 ± 0.03959
p1 -9.243e-07 ± 1.092e-06
-43.35
-43.4
-43.45
-43.5
-43.55
-43.6
-43.65
-43.7
-43.75
-43.8
0
10000
20000
30000
40000
50000
60000

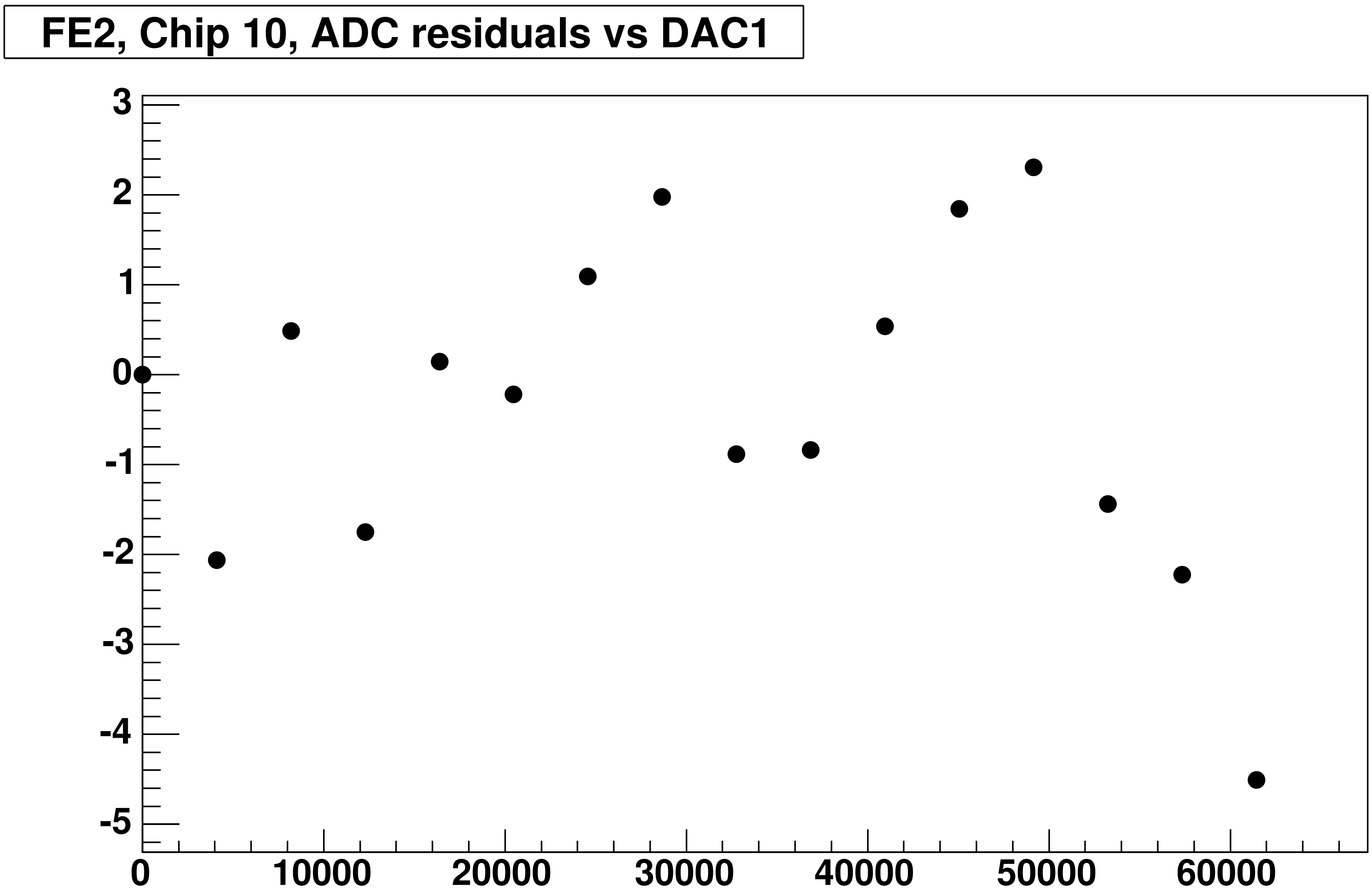

FE2, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

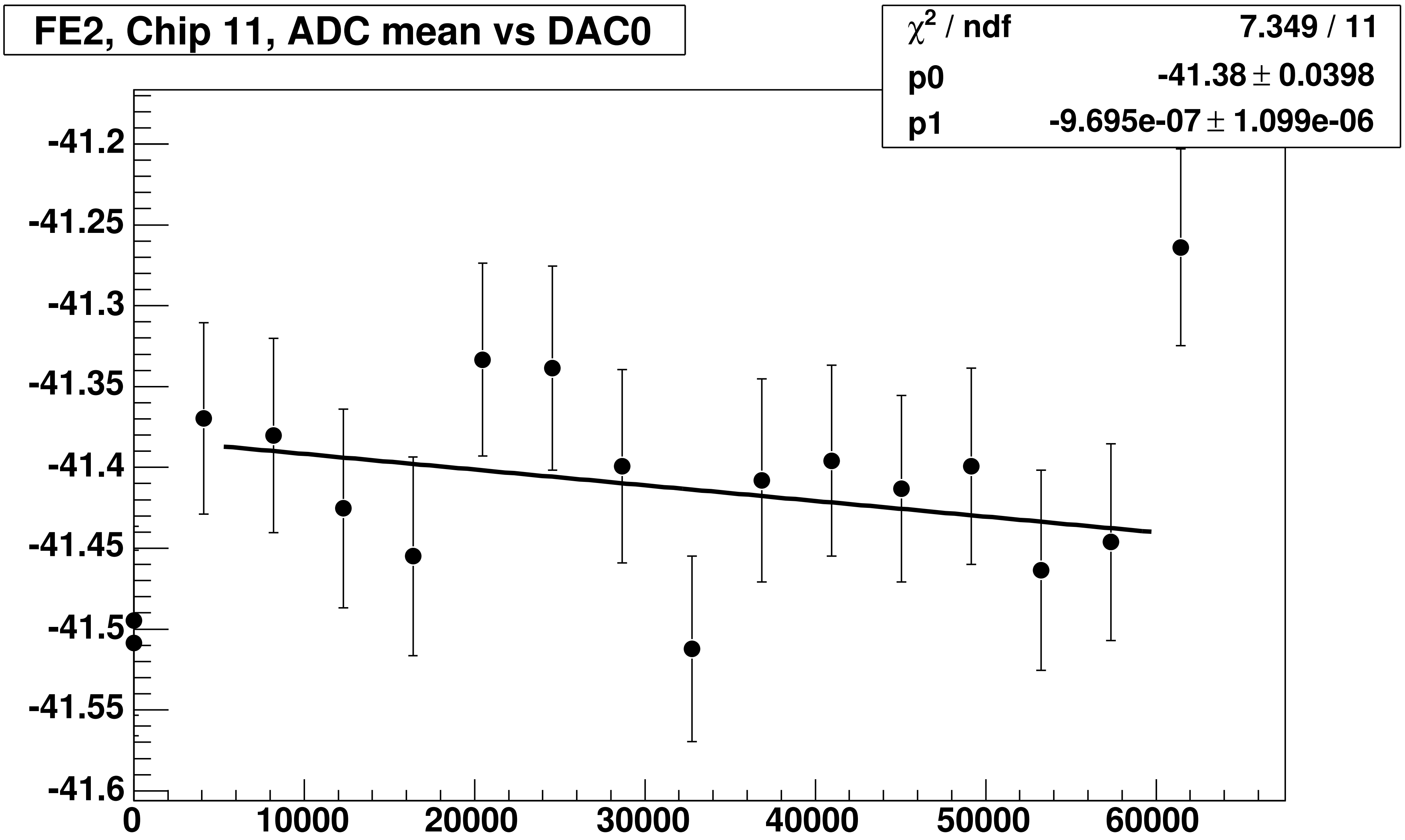


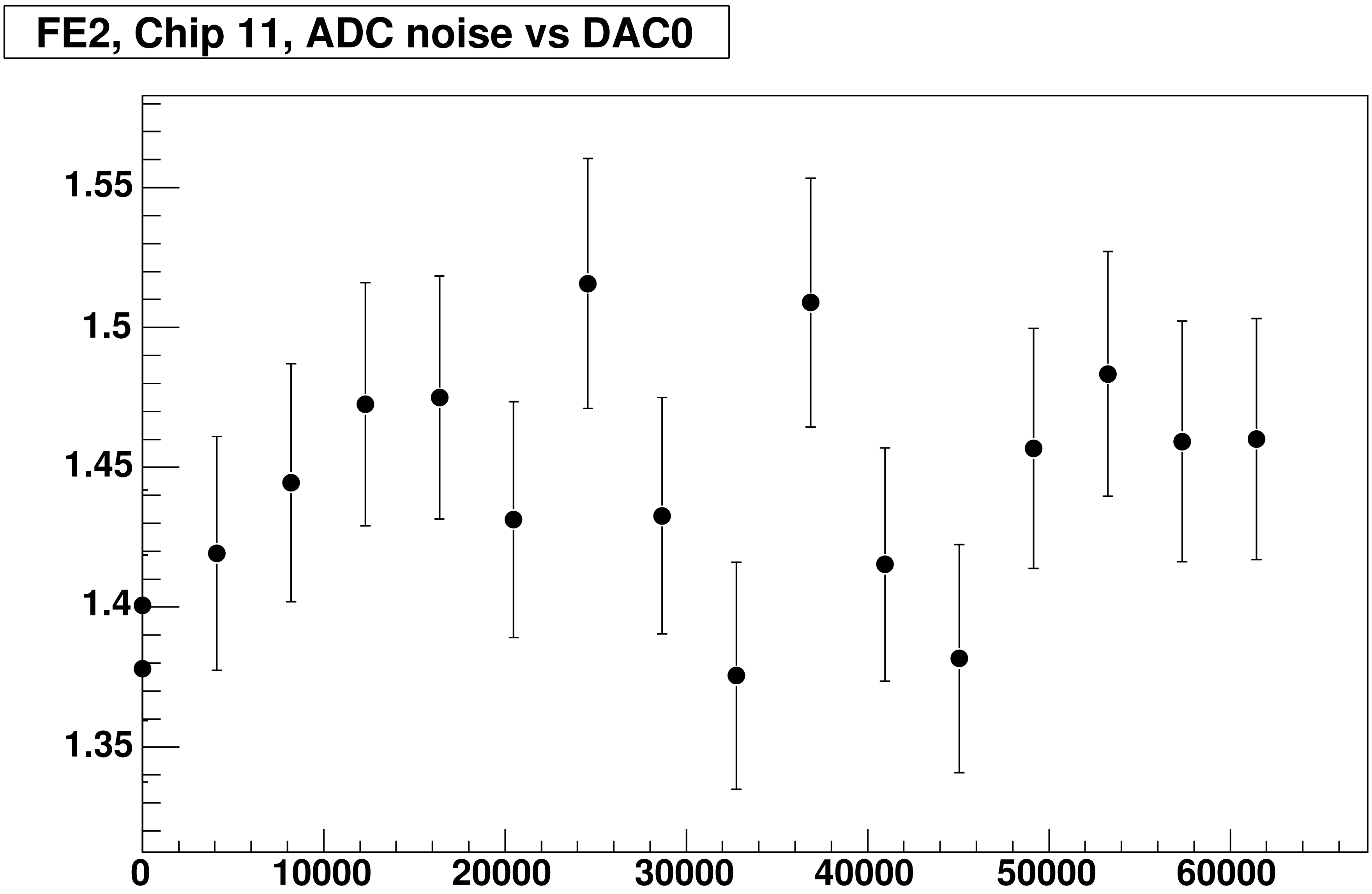
FE2, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

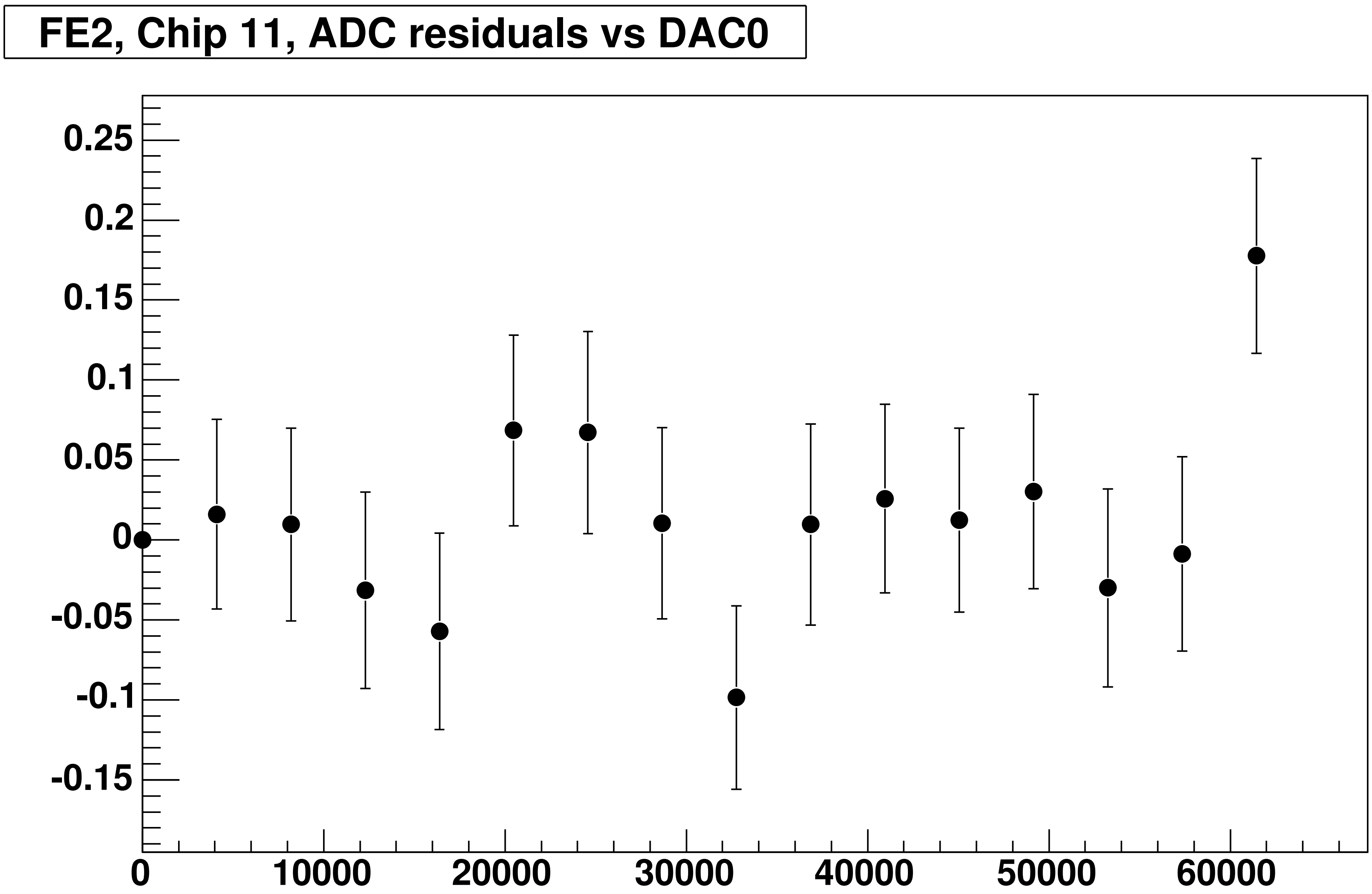

FE2, Chip 10, ADC mean vs DAC1
χ^2 / ndf 4201 / 11
p0 -42.58 ± 0.04193
p1 0.4507 ± 1.338e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

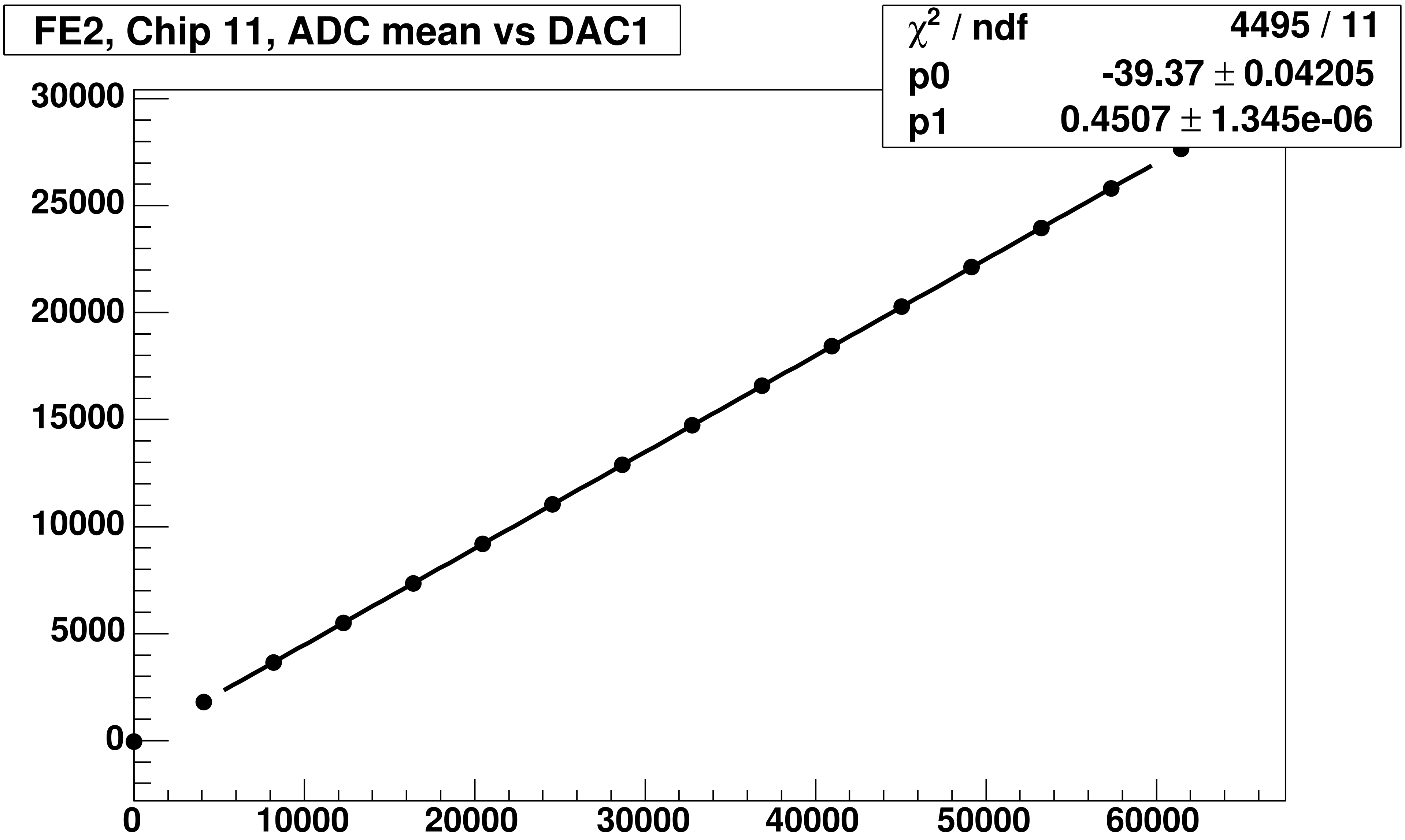

FE2, Chip 10, ADC residuals vs DAC1
3
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE2, Chip 11, ADC mean vs DAC0
χ² / ndf 7.349 / 11
p0 -41.38 ± 0.0398
p1 -9.695e-07 ± 1.099e-06
-41.2
-41.25
-41.3
-41.35
-41.4
-41.45
-41.5
-41.55
-41.6
0
10000
20000
30000
40000
50000
60000

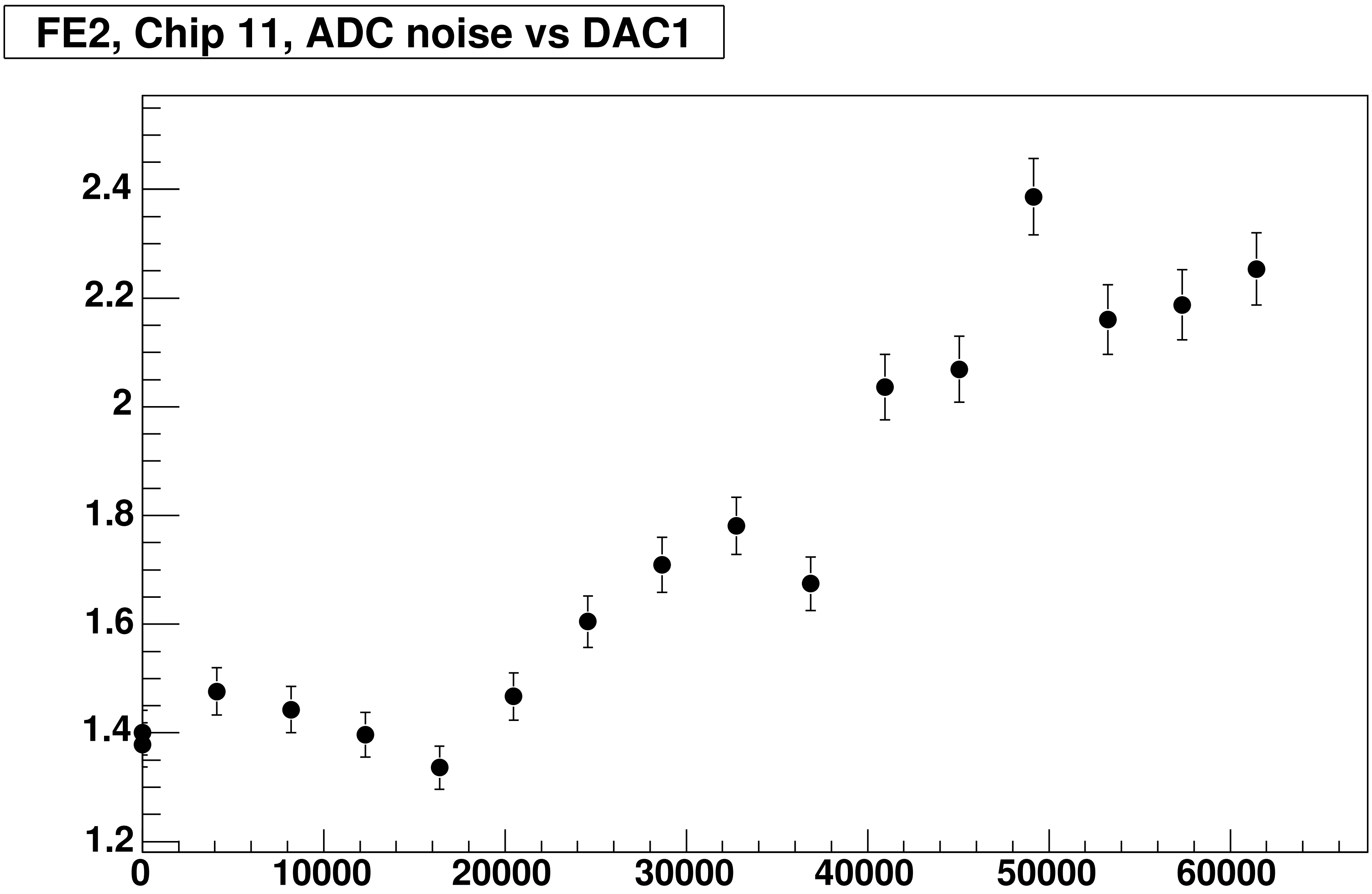

FE2, Chip 11, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



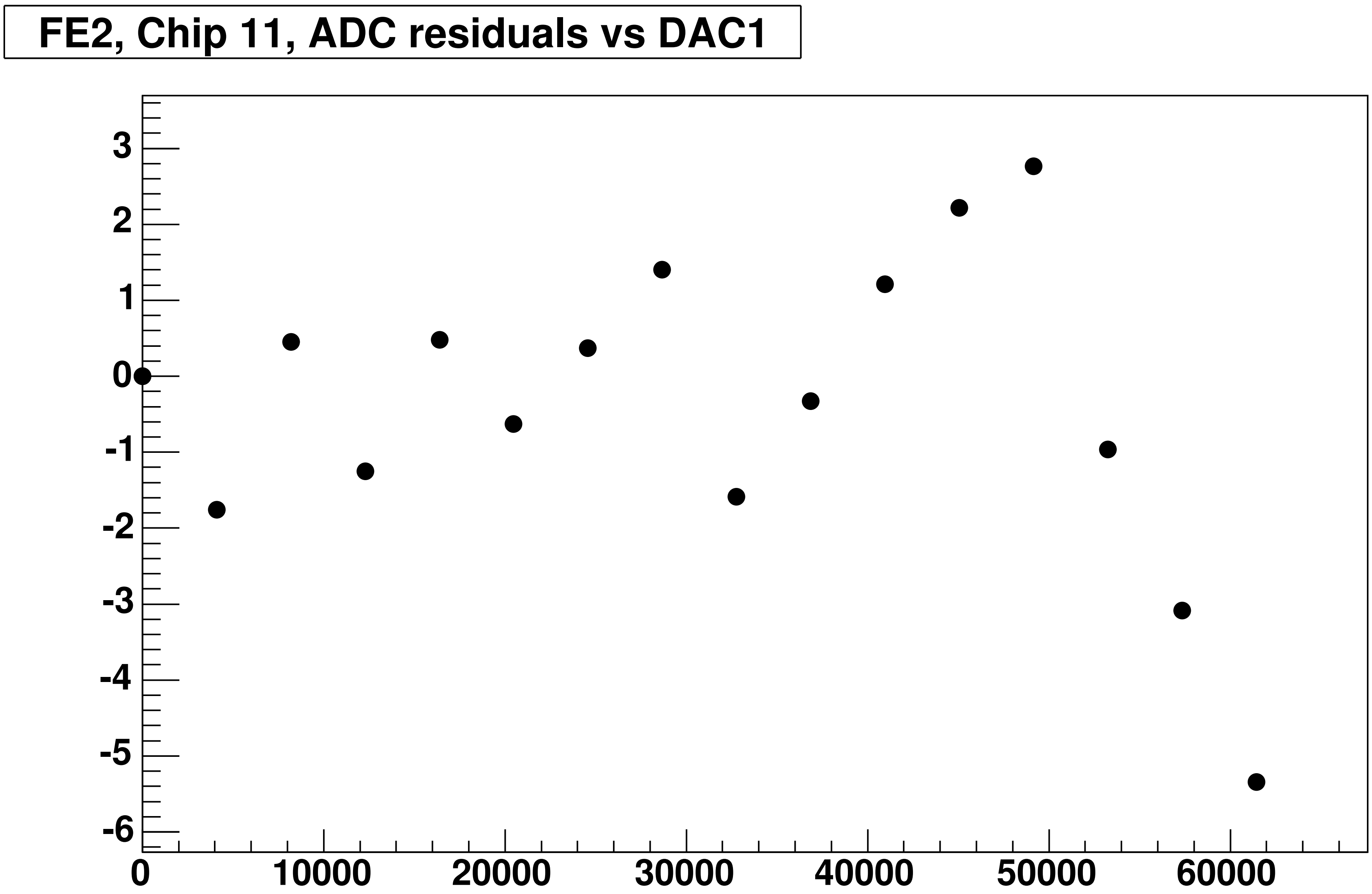
FE2, Chip 11, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



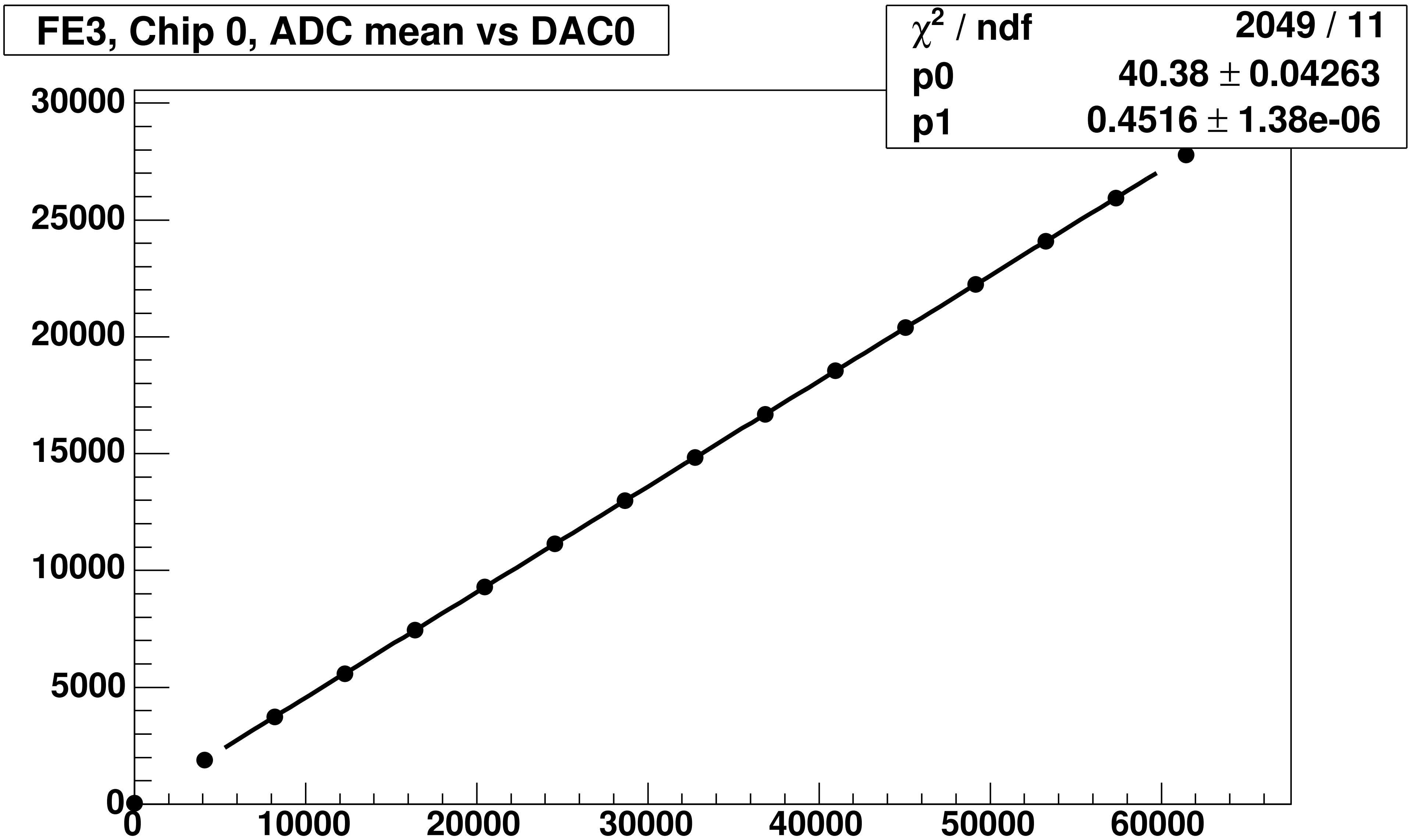
FE2, Chip 11, ADC mean vs DAC1
χ2 / ndf 4495 / 11
p0 -39.37 ± 0.04205
p1 0.4507 ± 1.345e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

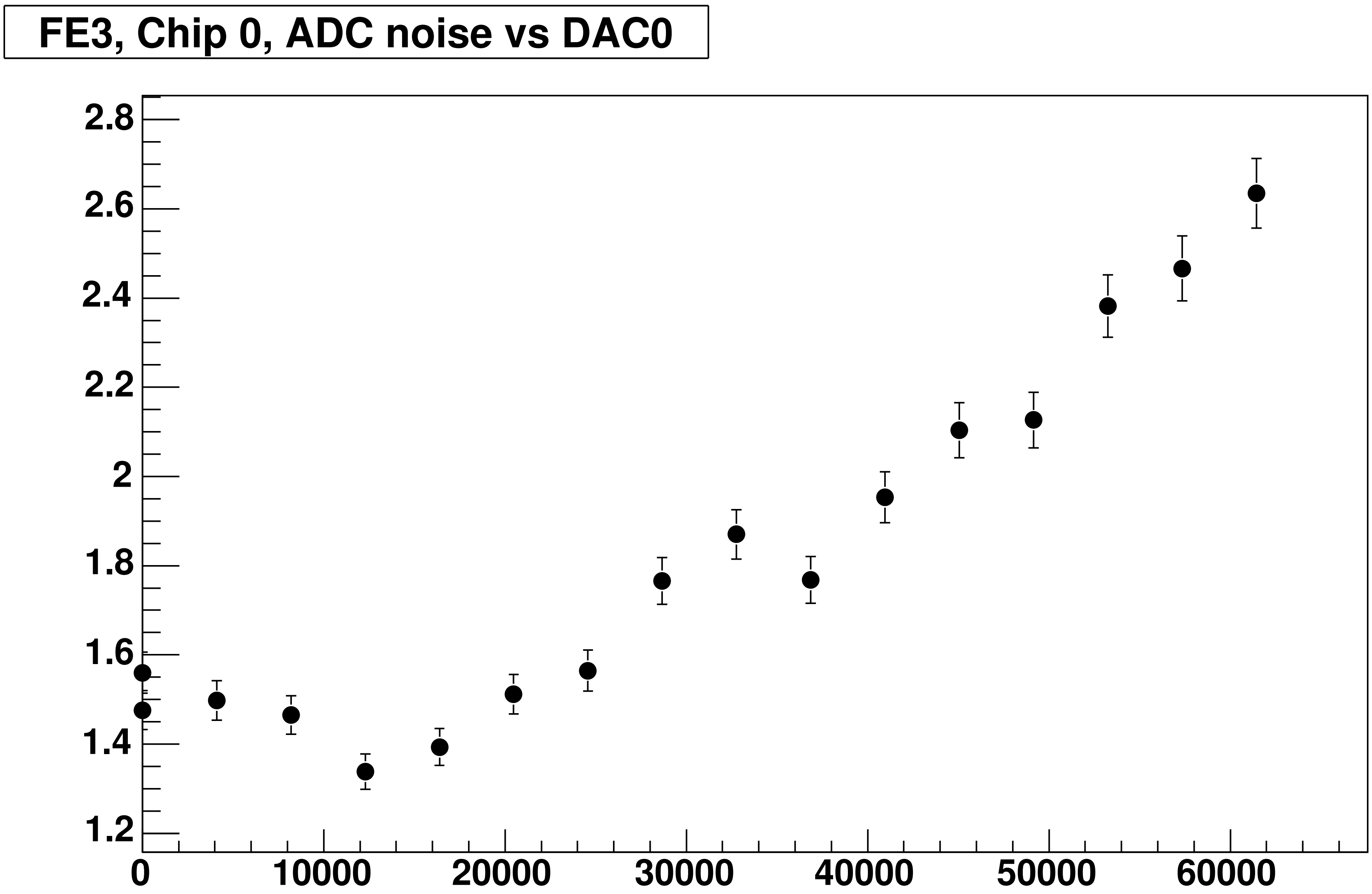


FE2, Chip 11, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

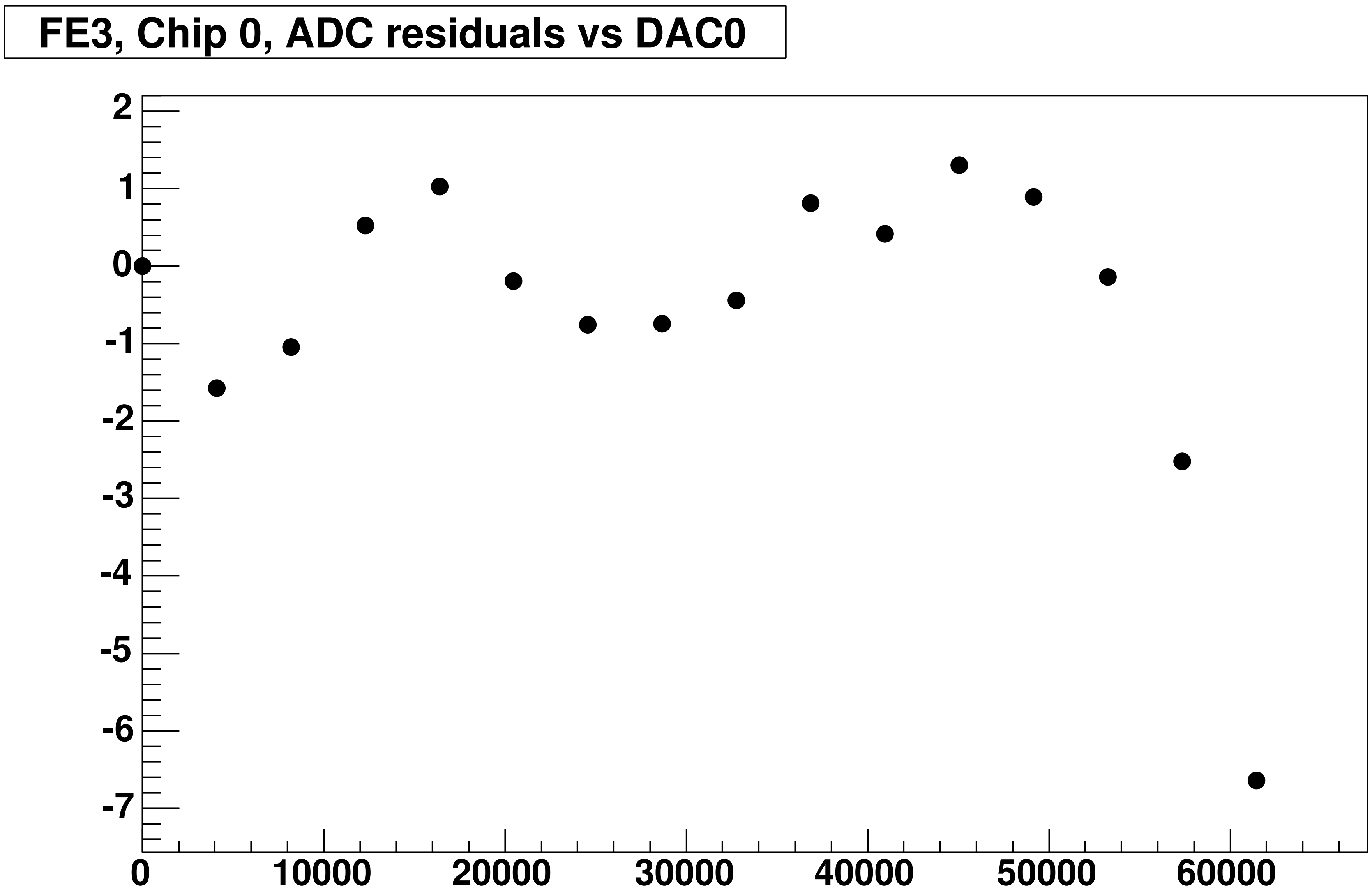


FE2, Chip 11, ADC residuals vs DAC1
3
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

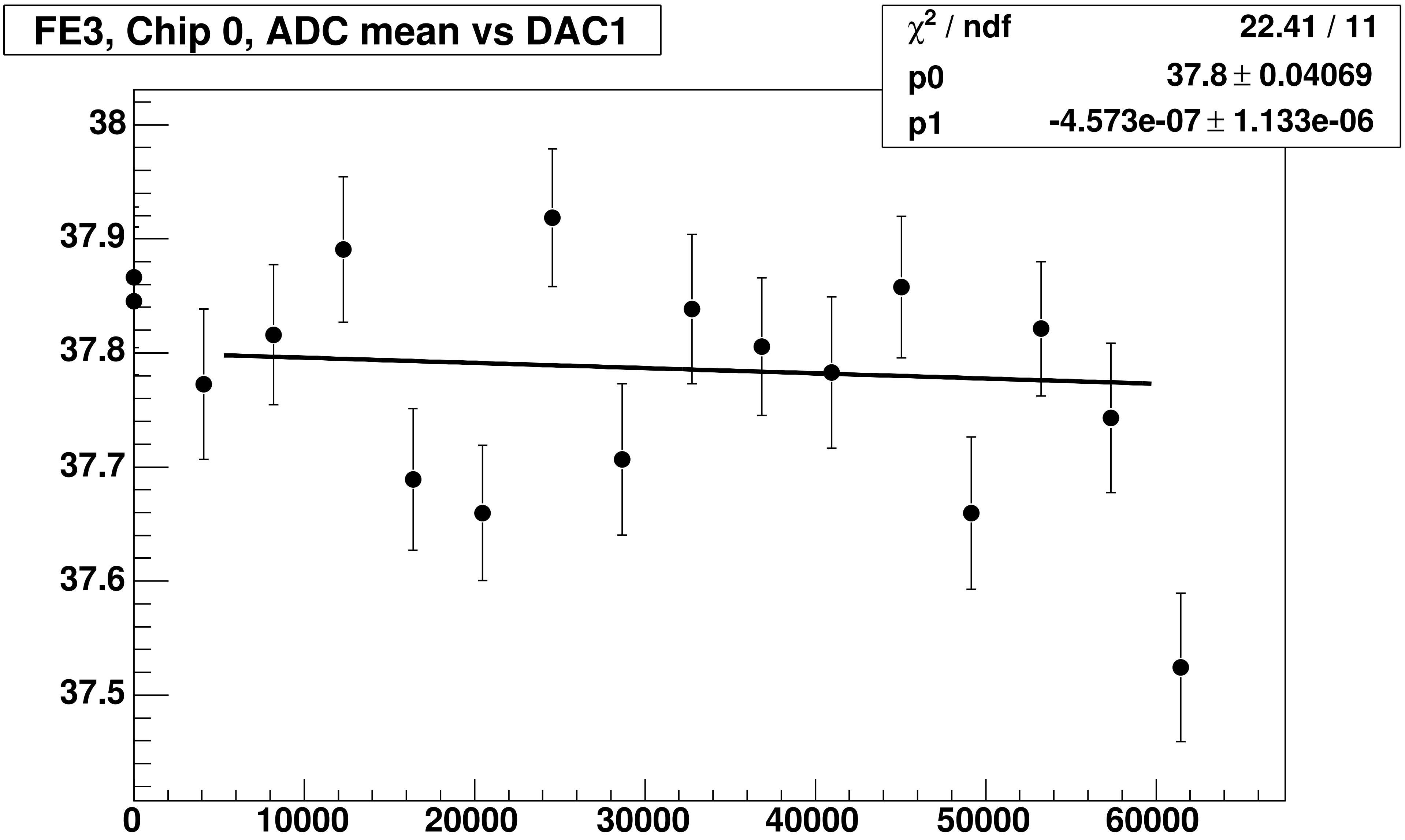

FE3, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2049 / 11
p0 40.38 ± 0.04263
p1 0.4516 ± 1.38e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000



FE3, Chip 0, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

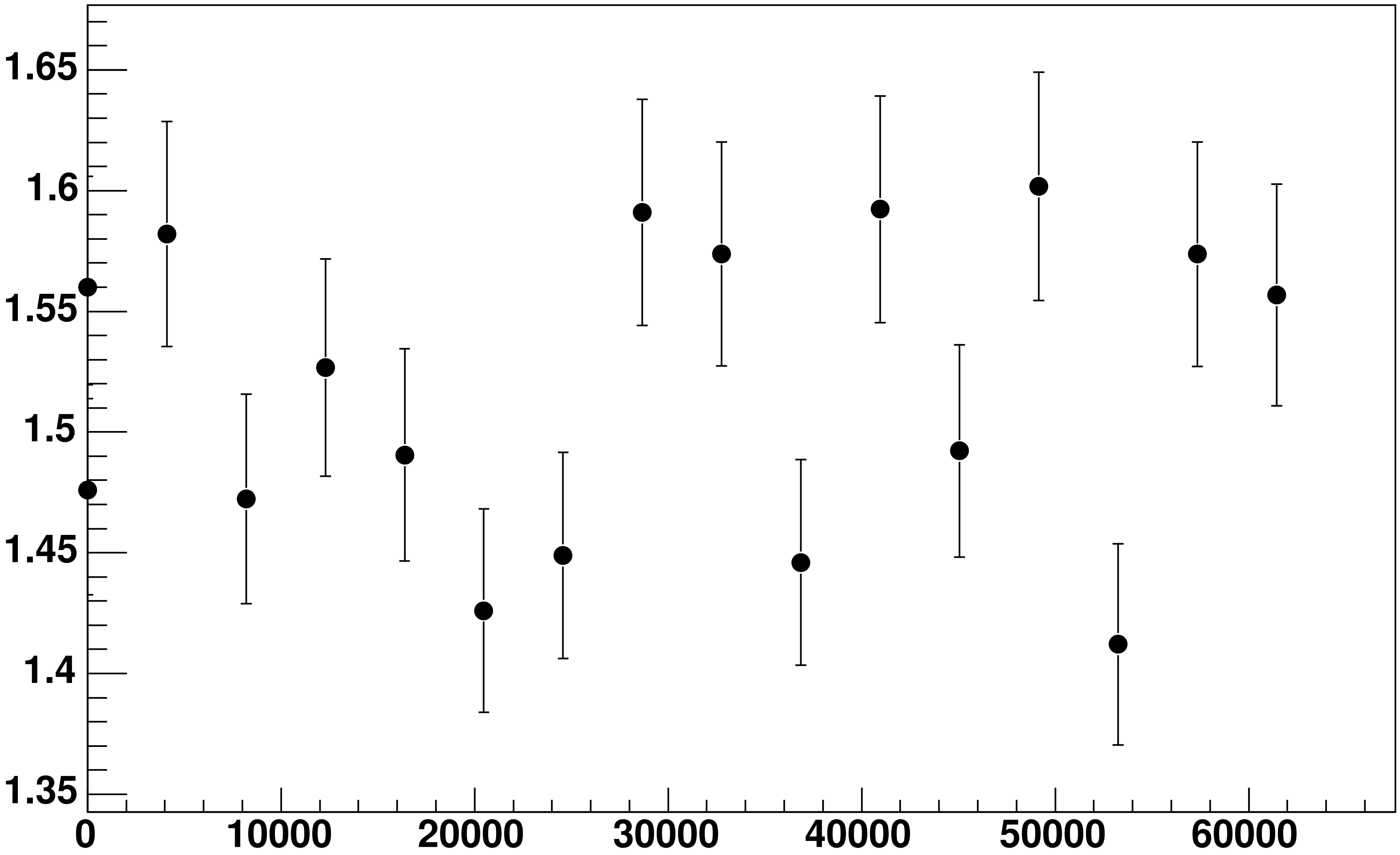


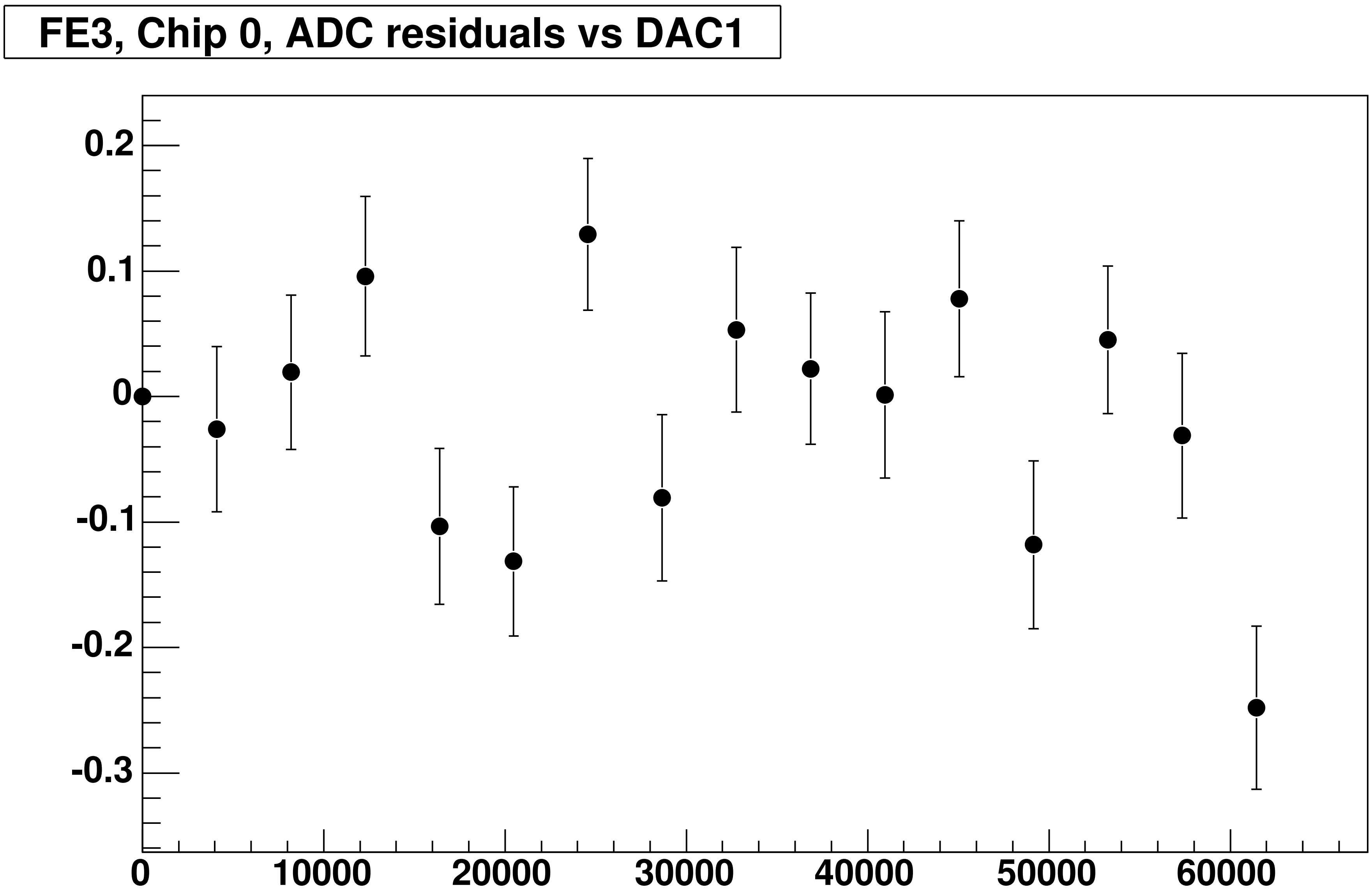
FE3, Chip 0, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

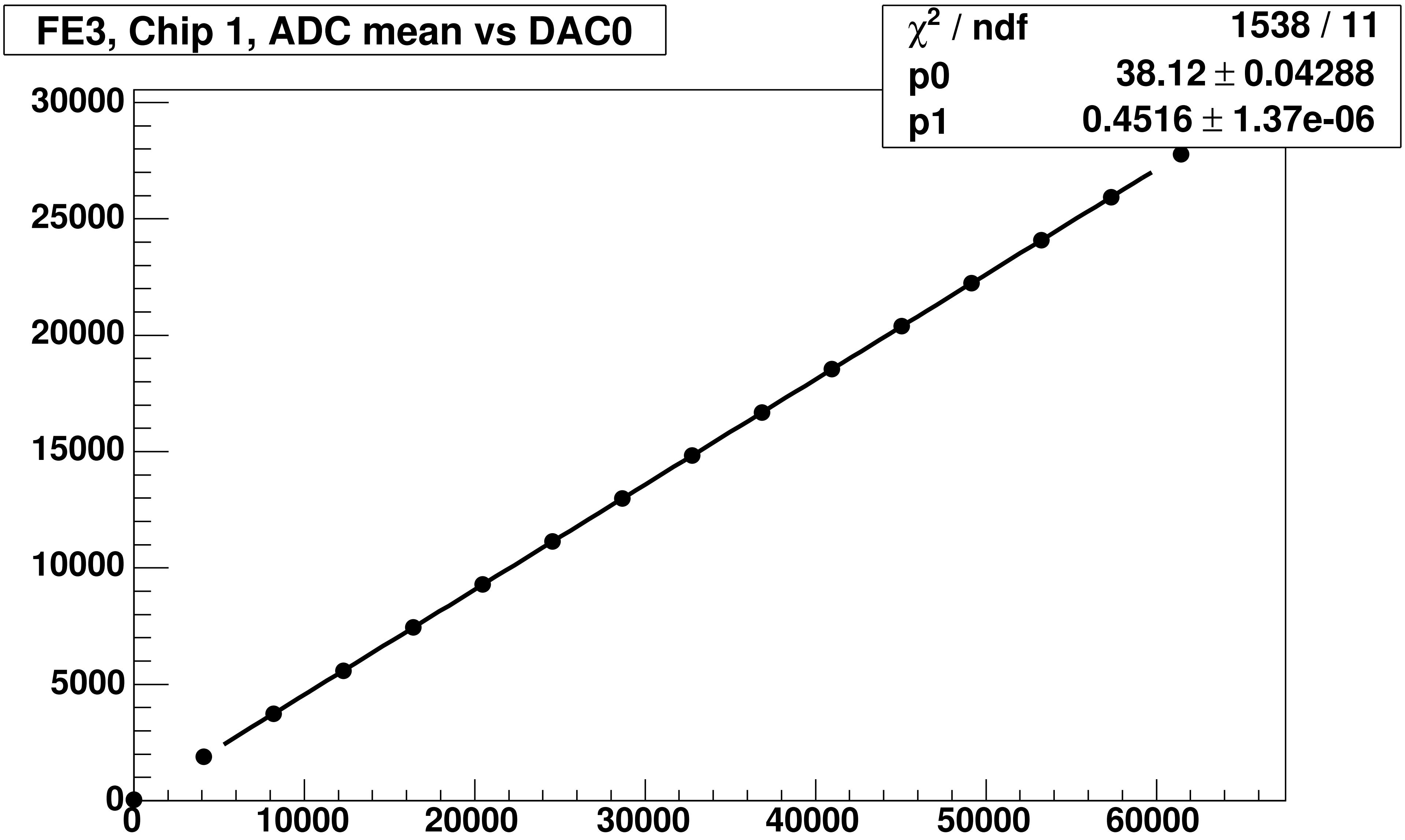


FE3, Chip 0, ADC mean vs DAC1
χ^2 / ndf 22.41 / 11
p0 37.8 ± 0.04069
p1 -4.573e-07 ± 1.133e-06
38
37.9
37.8
37.7
37.6
37.5
0
10000
20000
30000
40000
50000
60000

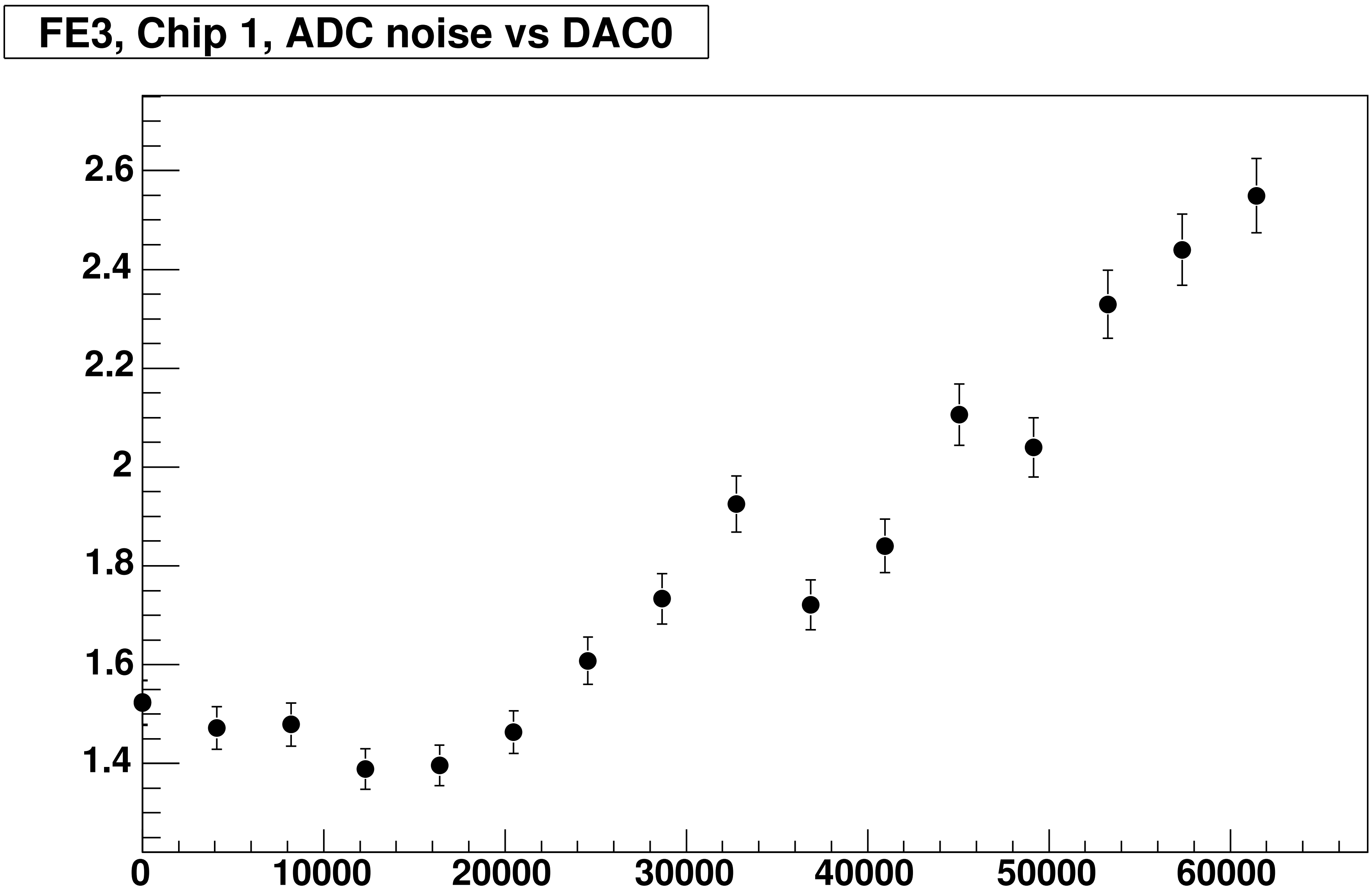
FE3, Chip 0, ADC noise vs DAC1

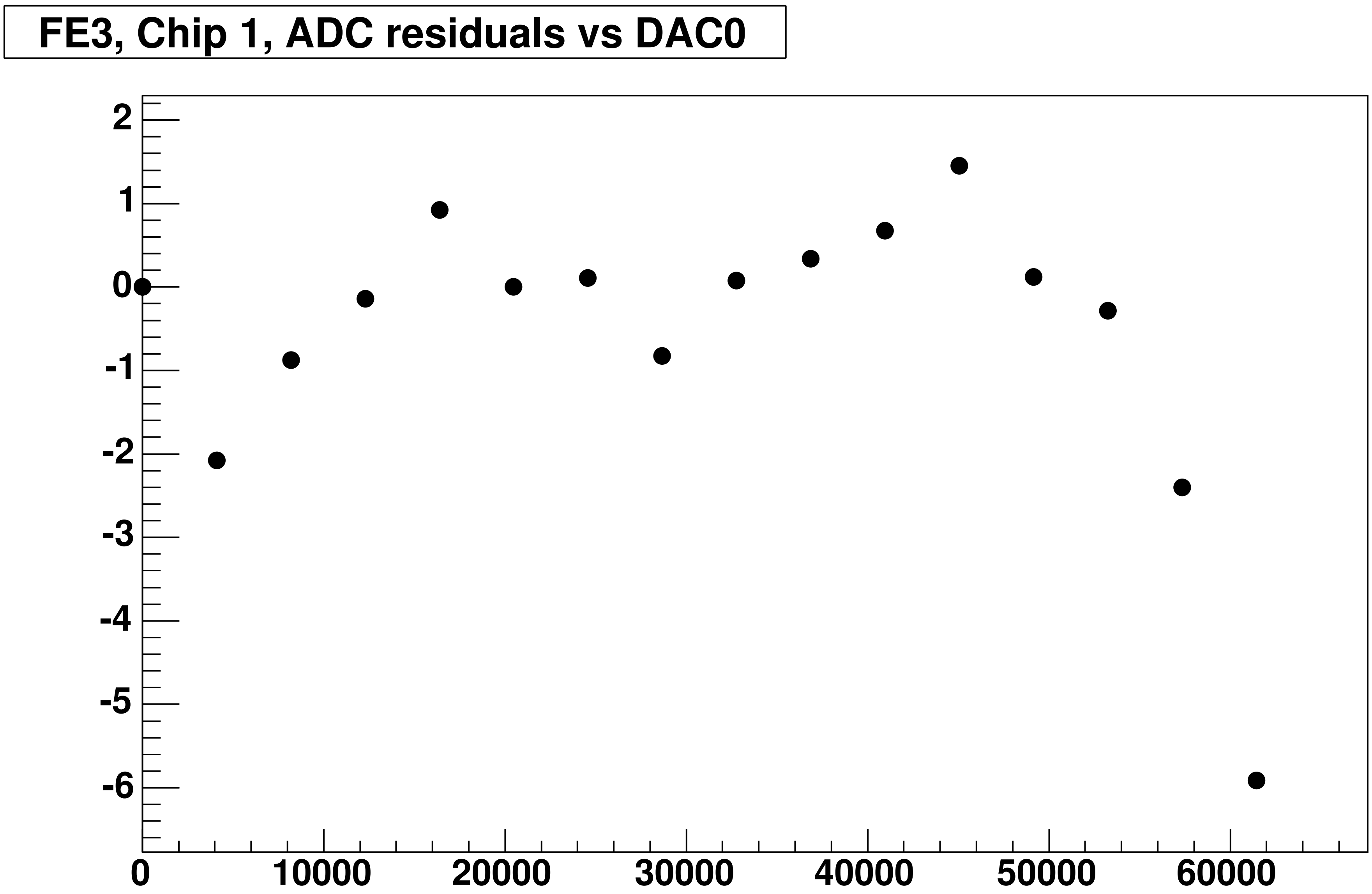


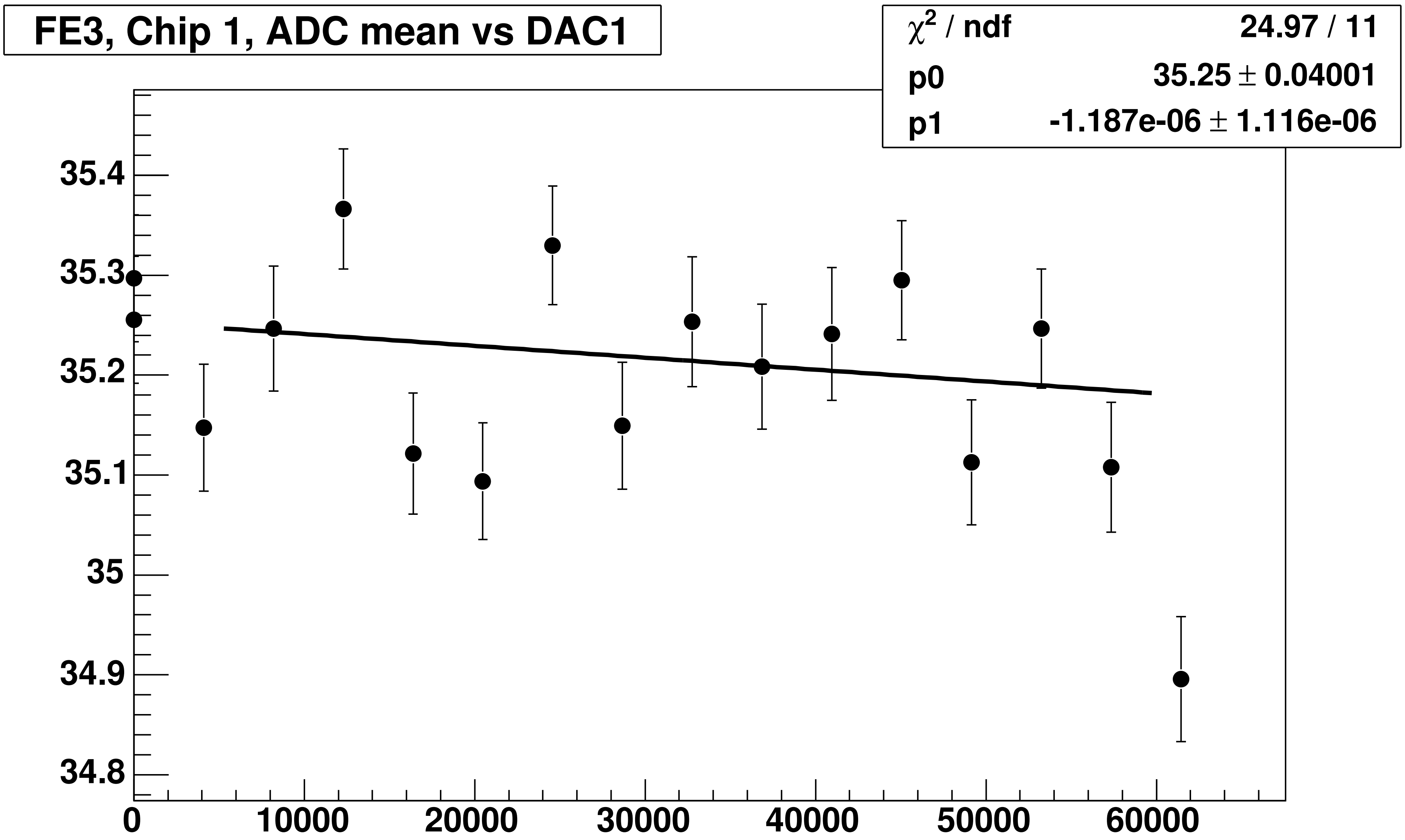

FE3, Chip 0, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



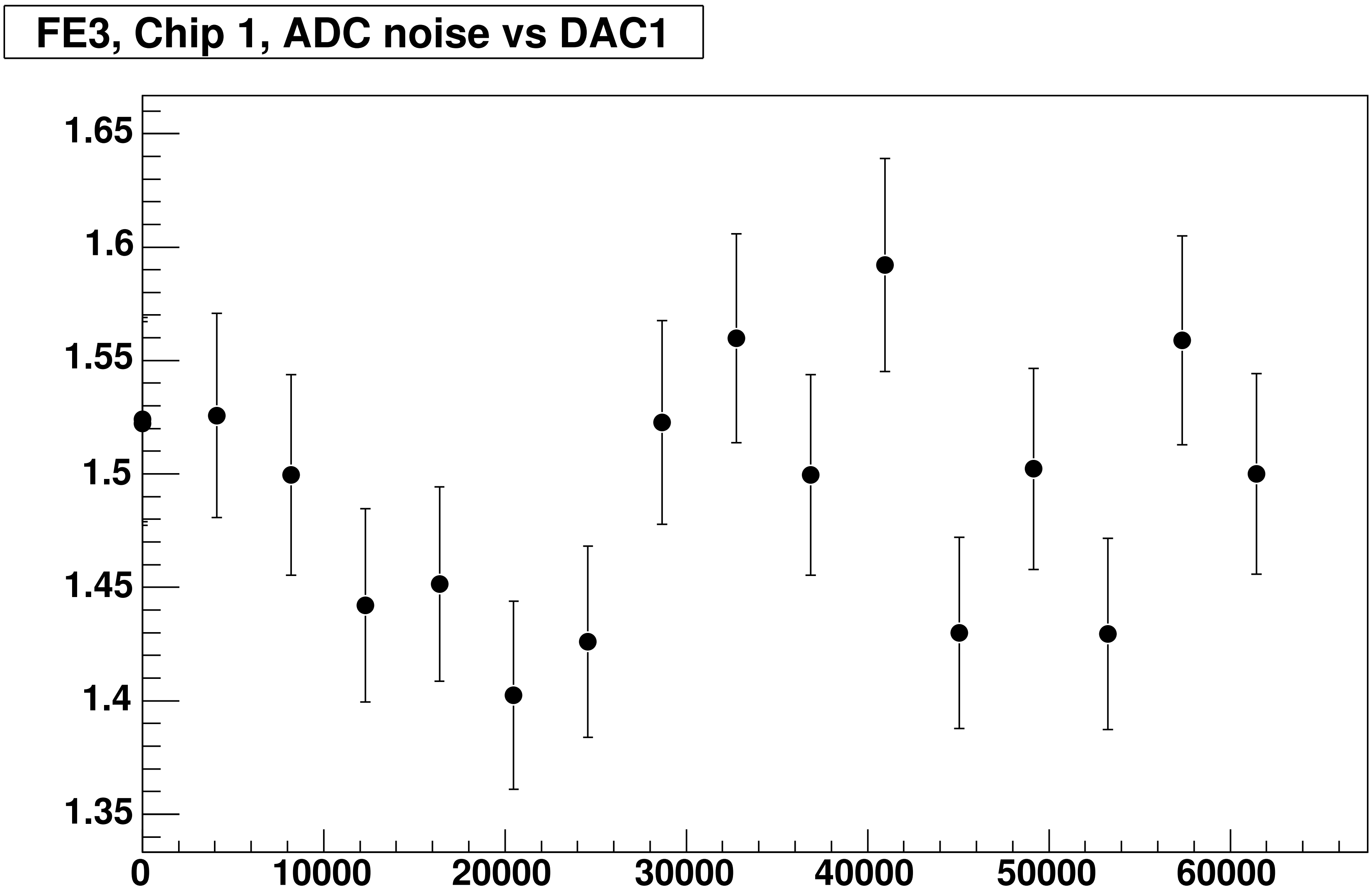
FE3, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1538 / 11
p0 38.12 ± 0.04288
p1 0.4516 ± 1.37e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

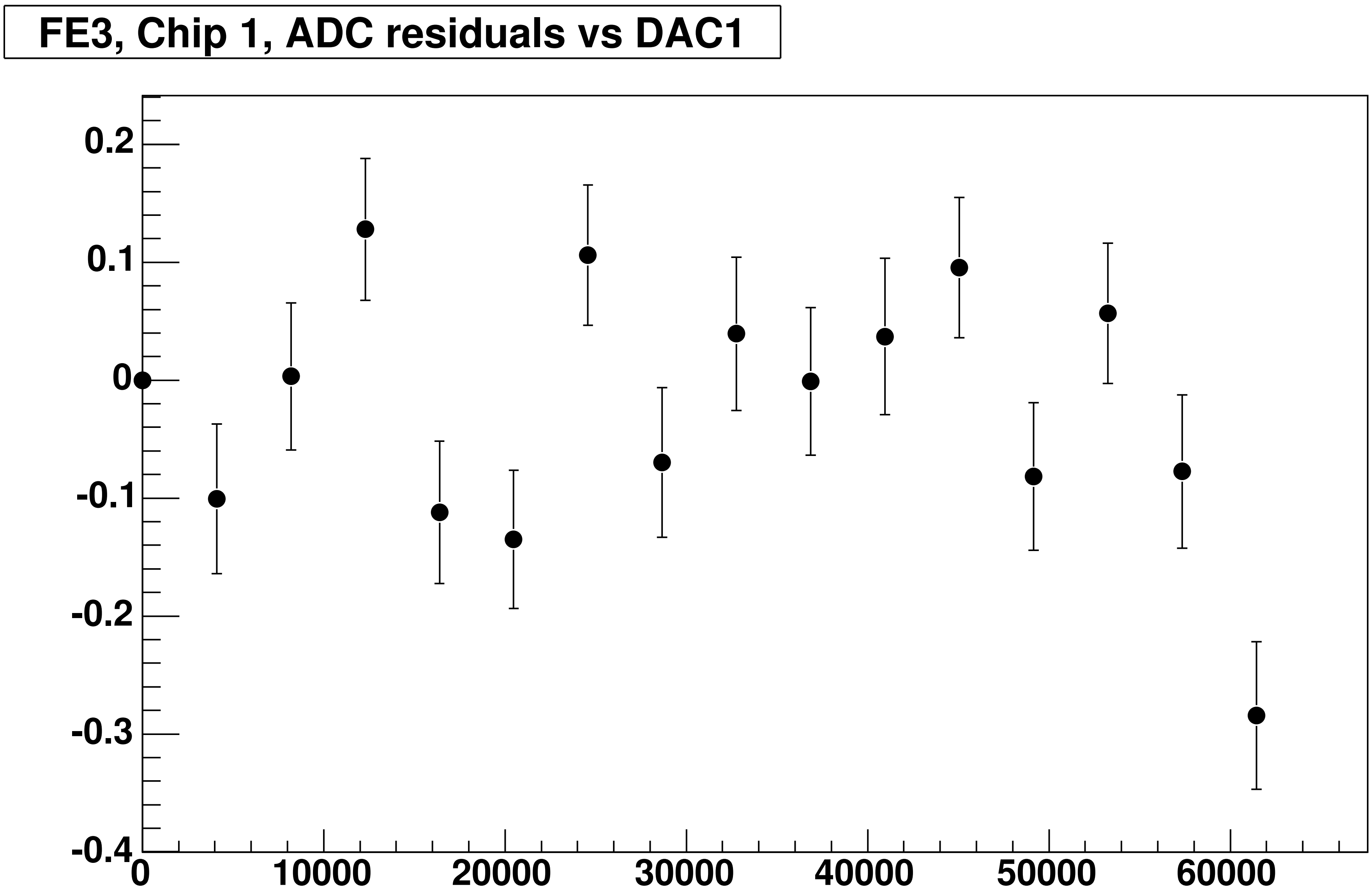

FE3, Chip 1, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

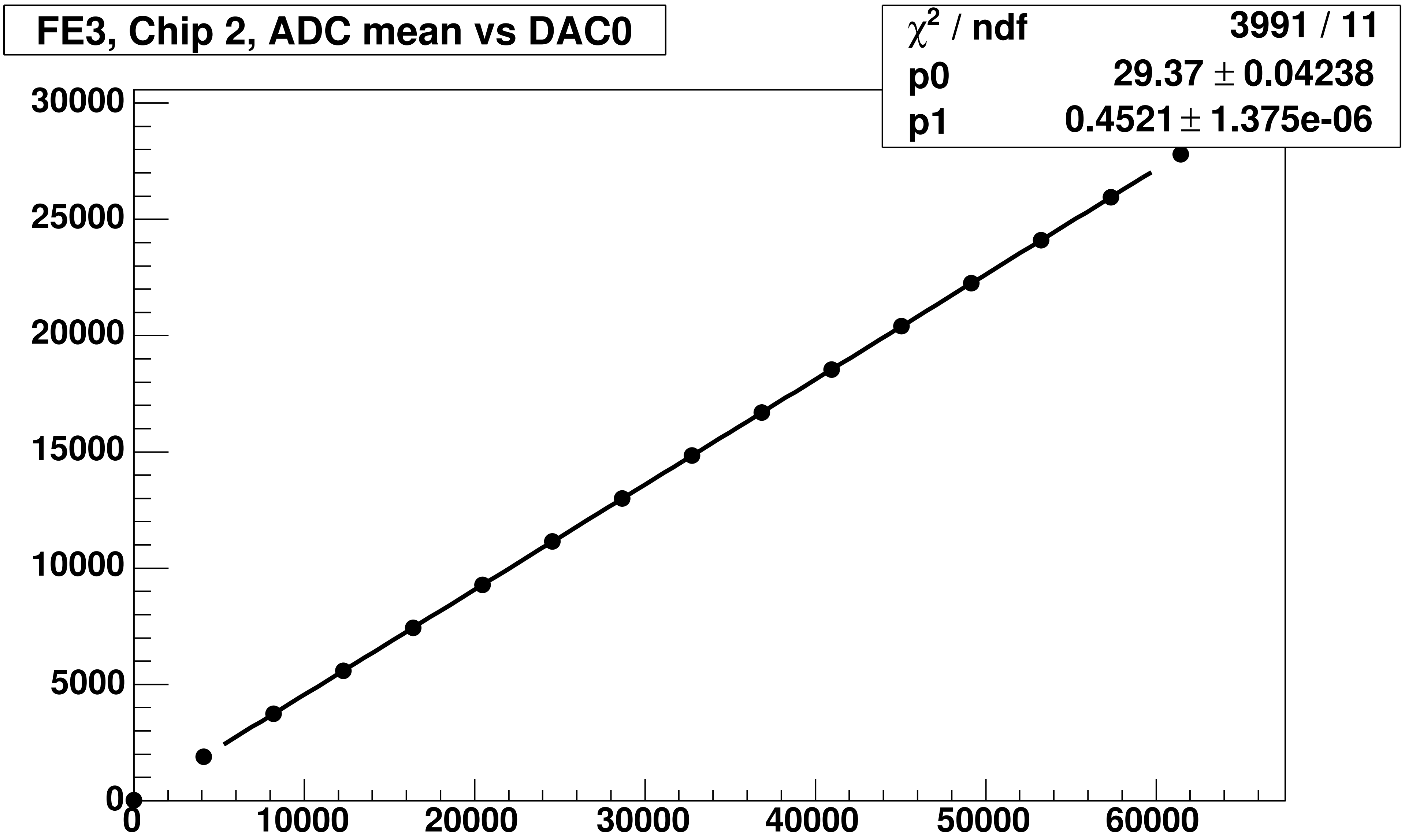

FE3, Chip 1, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



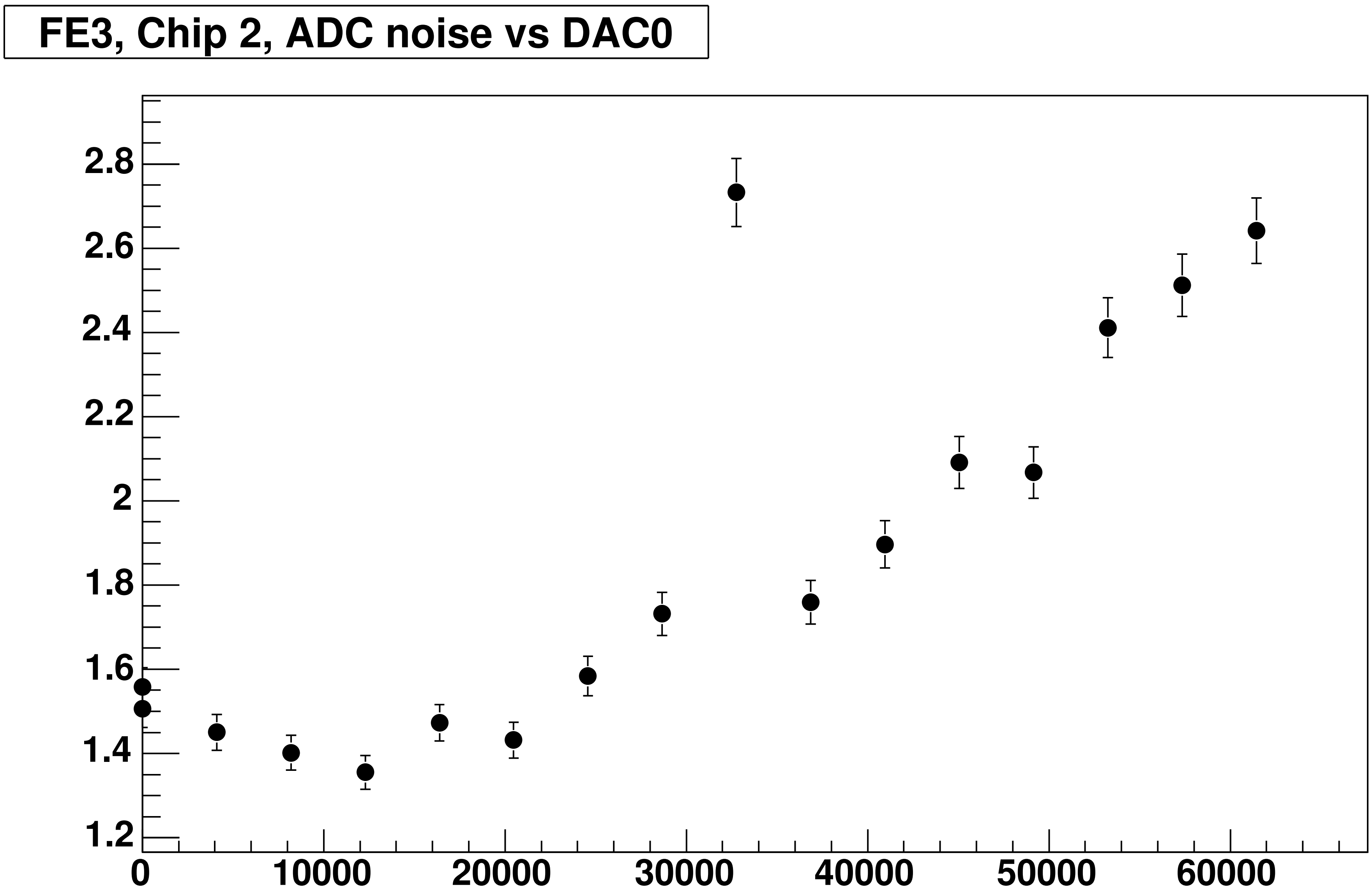
FE3, Chip 1, ADC mean vs DAC1
χ^2 / ndf 24.97 / 11
p0 35.25 ± 0.04001
p1 -1.187e-06 ± 1.116e-06
35.4
35.3
35.2
35.1
35
34.9
34.8
0
10000
20000
30000
40000
50000
60000

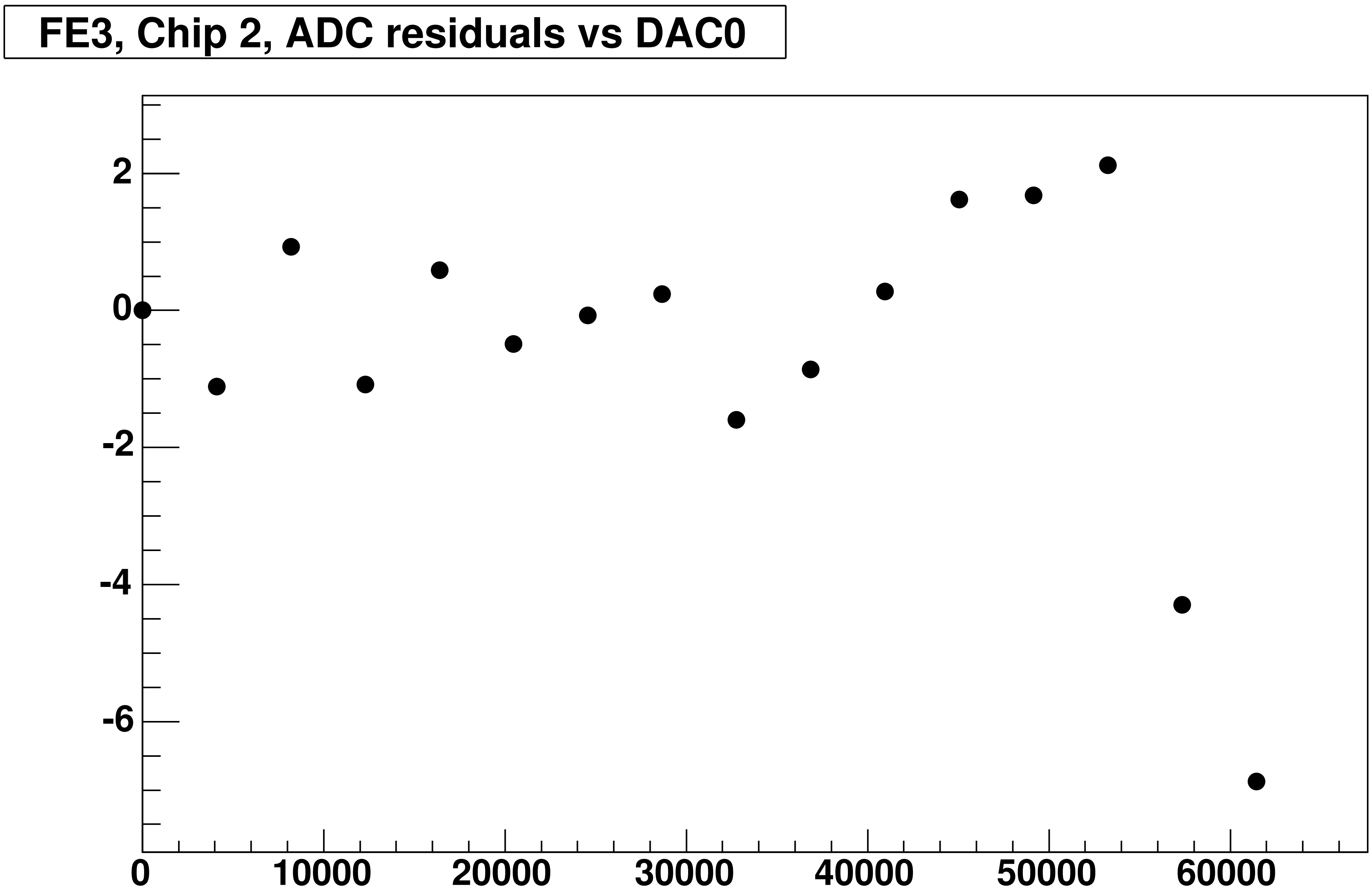

FE3, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

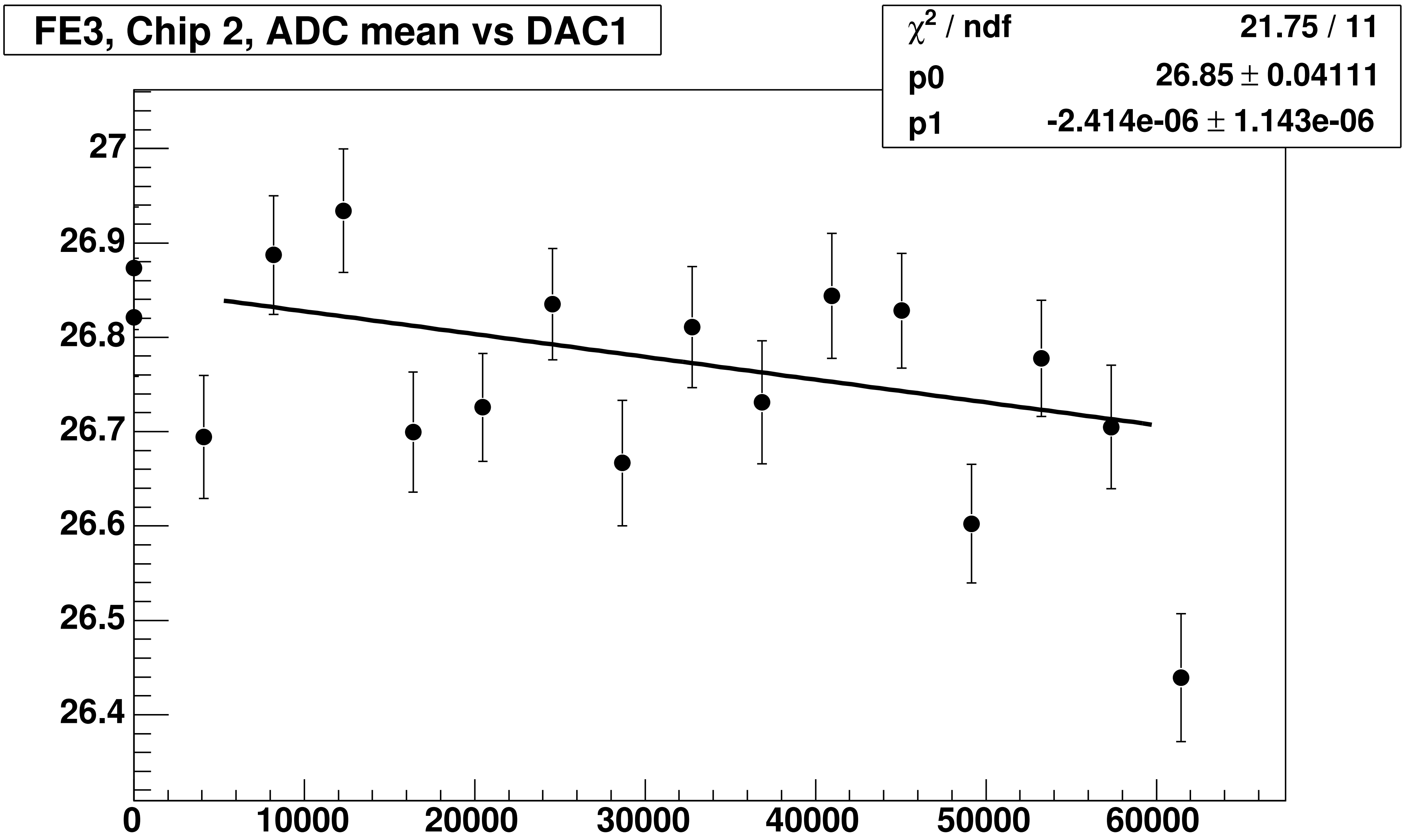

FE3, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



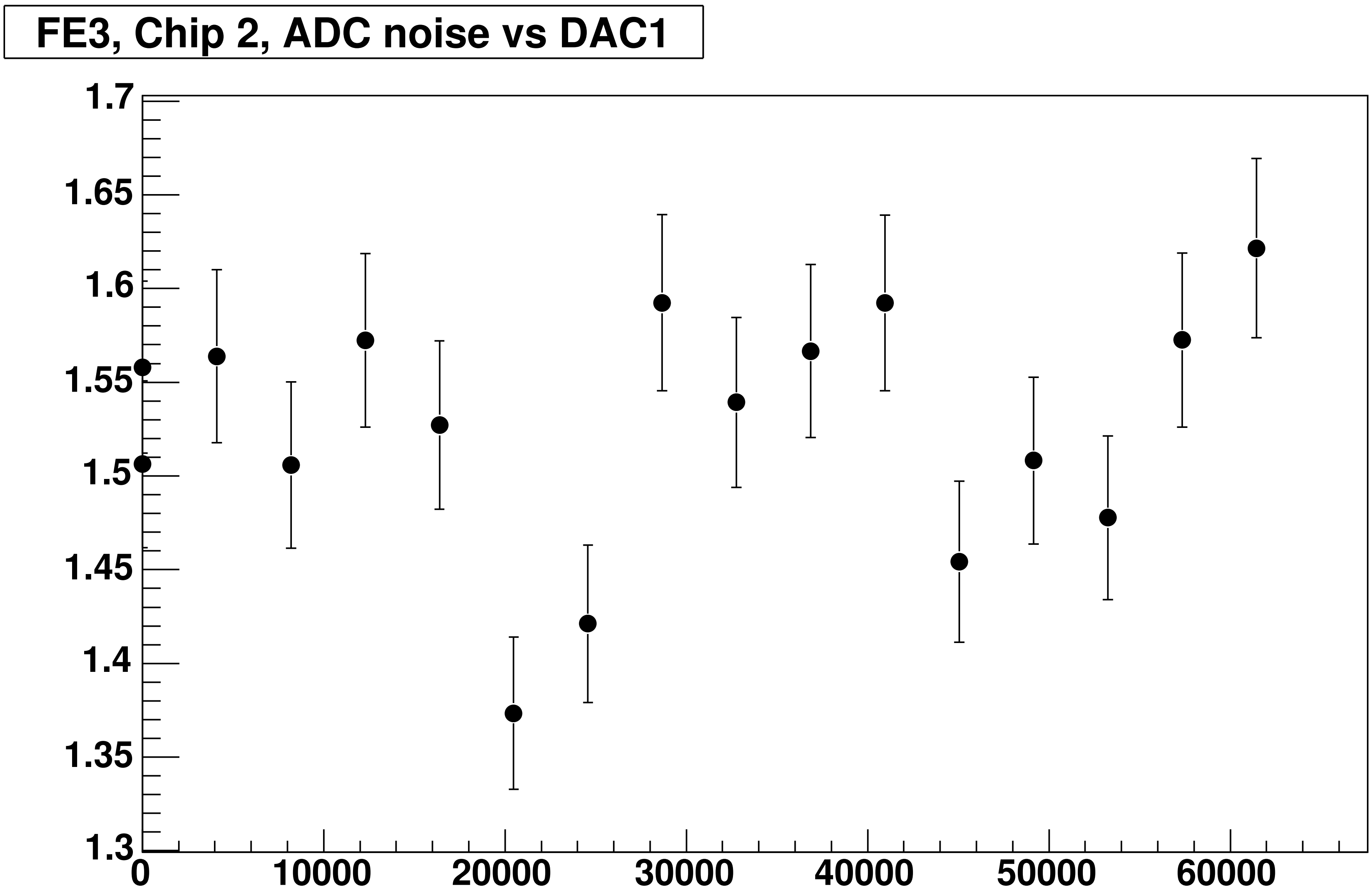
FE3, Chip 2, ADC mean vs DAC0
χ^2 / ndf 3991 / 11
p0 29.37 ± 0.04238
p1 0.4521 ± 1.375e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

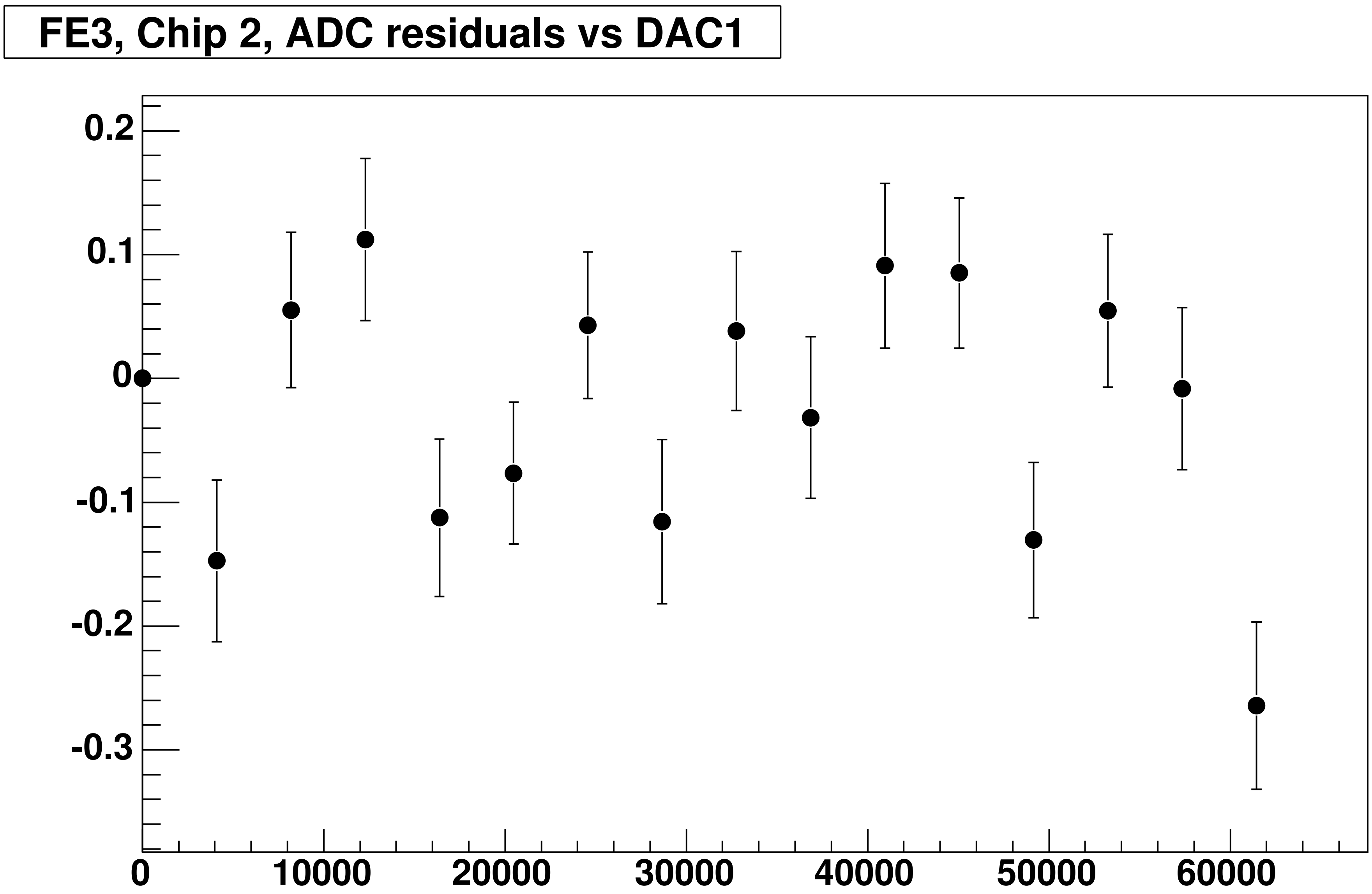

FE3, Chip 2, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE3, Chip 2, ADC residuals vs DAC0
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

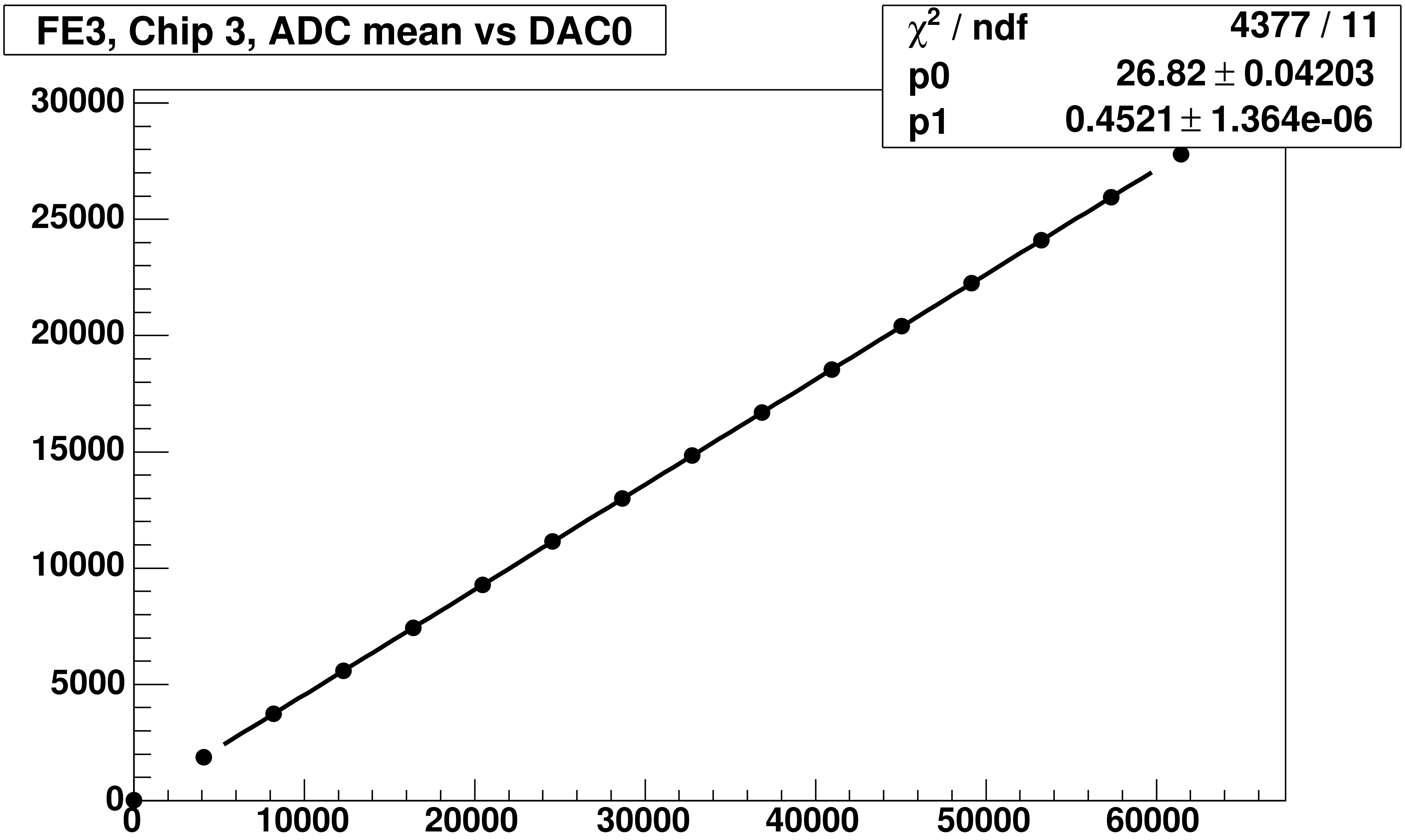


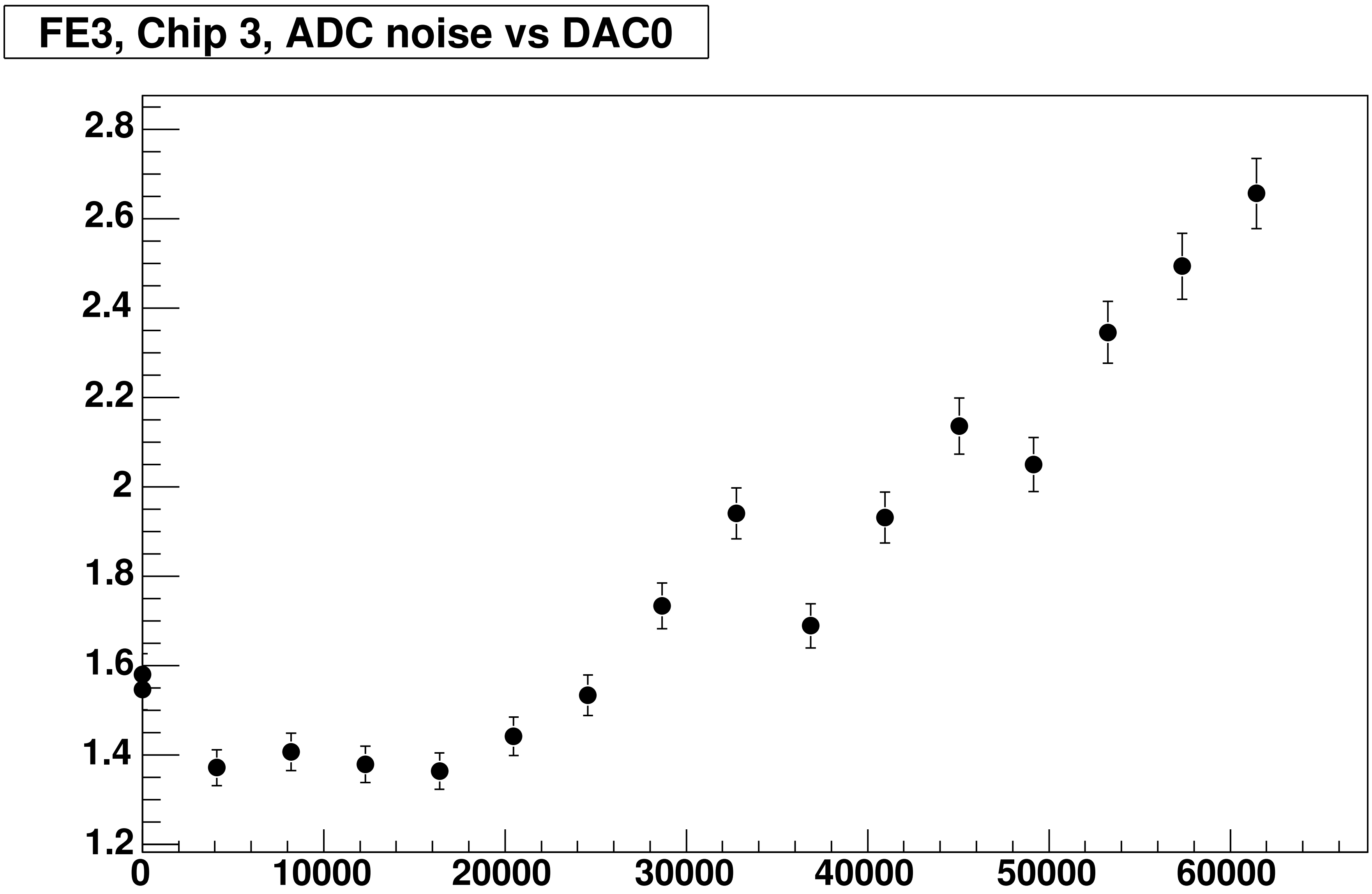
FE3, Chip 2, ADC mean vs DAC1
χ^2 / ndf 21.75 / 11
p0 26.85 ± 0.04111
p1 -2.414e-06 ± 1.143e-06
27
26.9
26.8
26.7
26.6
26.5
26.4
0
10000
20000
30000
40000
50000
60000


FE3, Chip 2, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

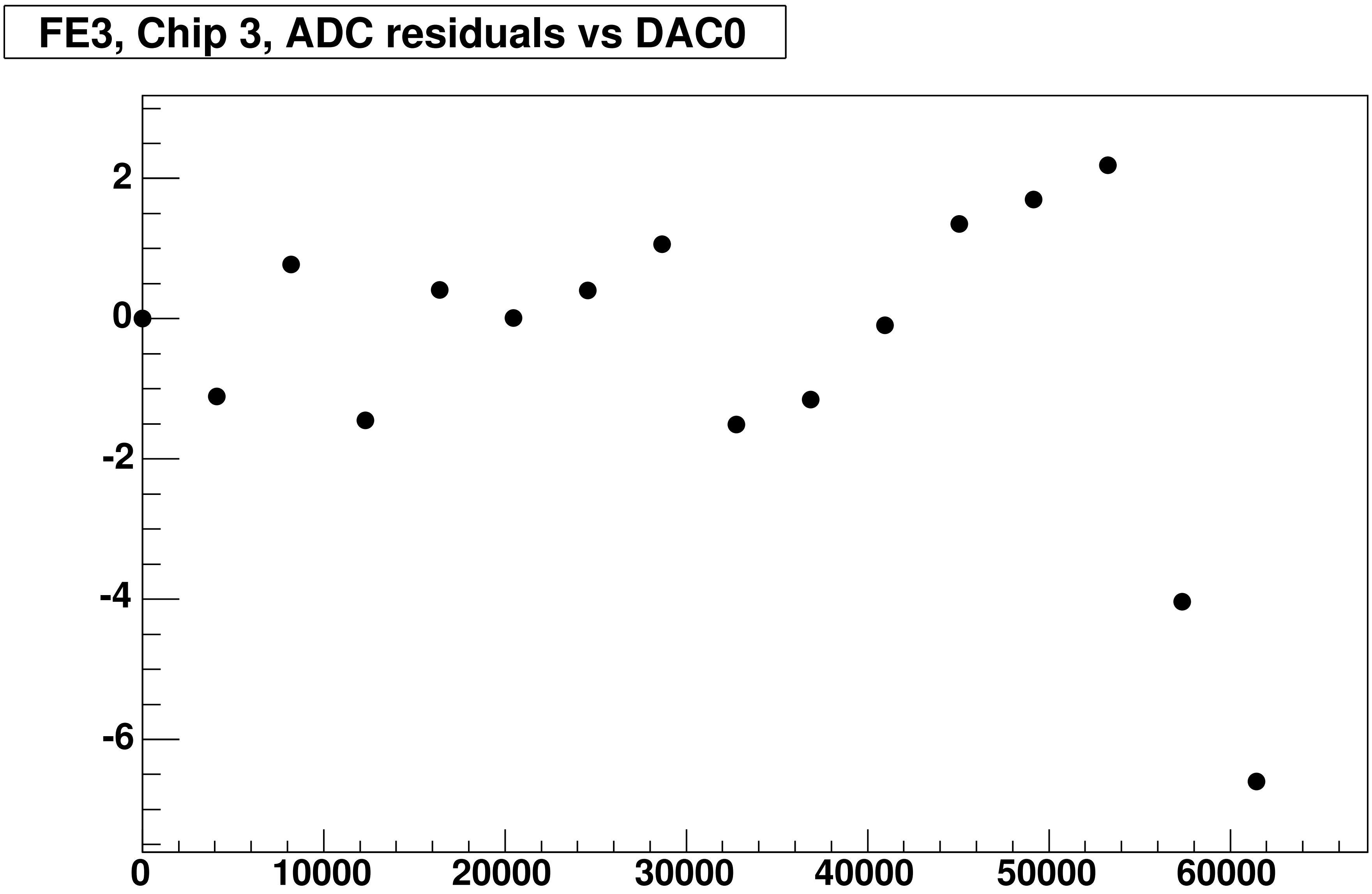


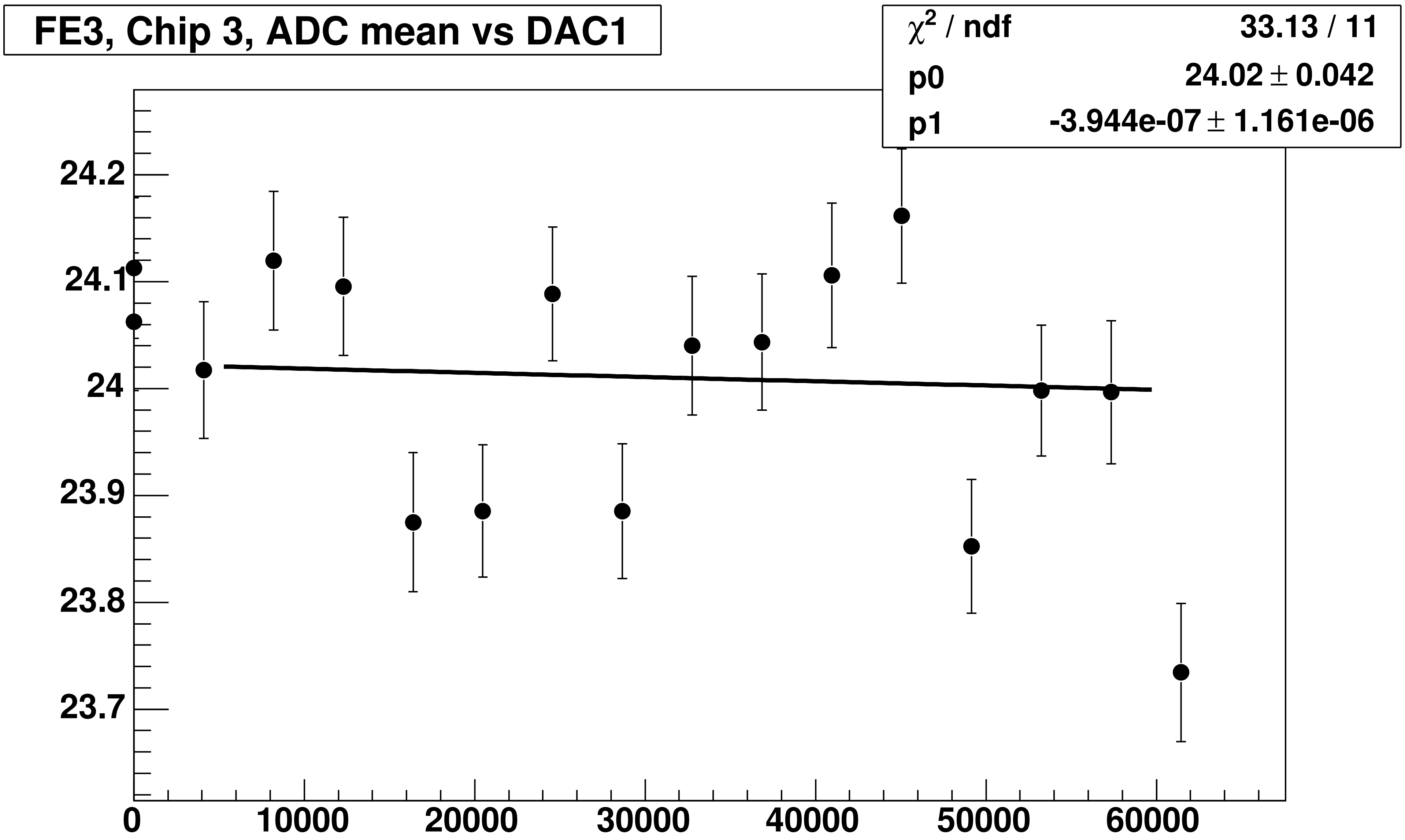
FE3, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

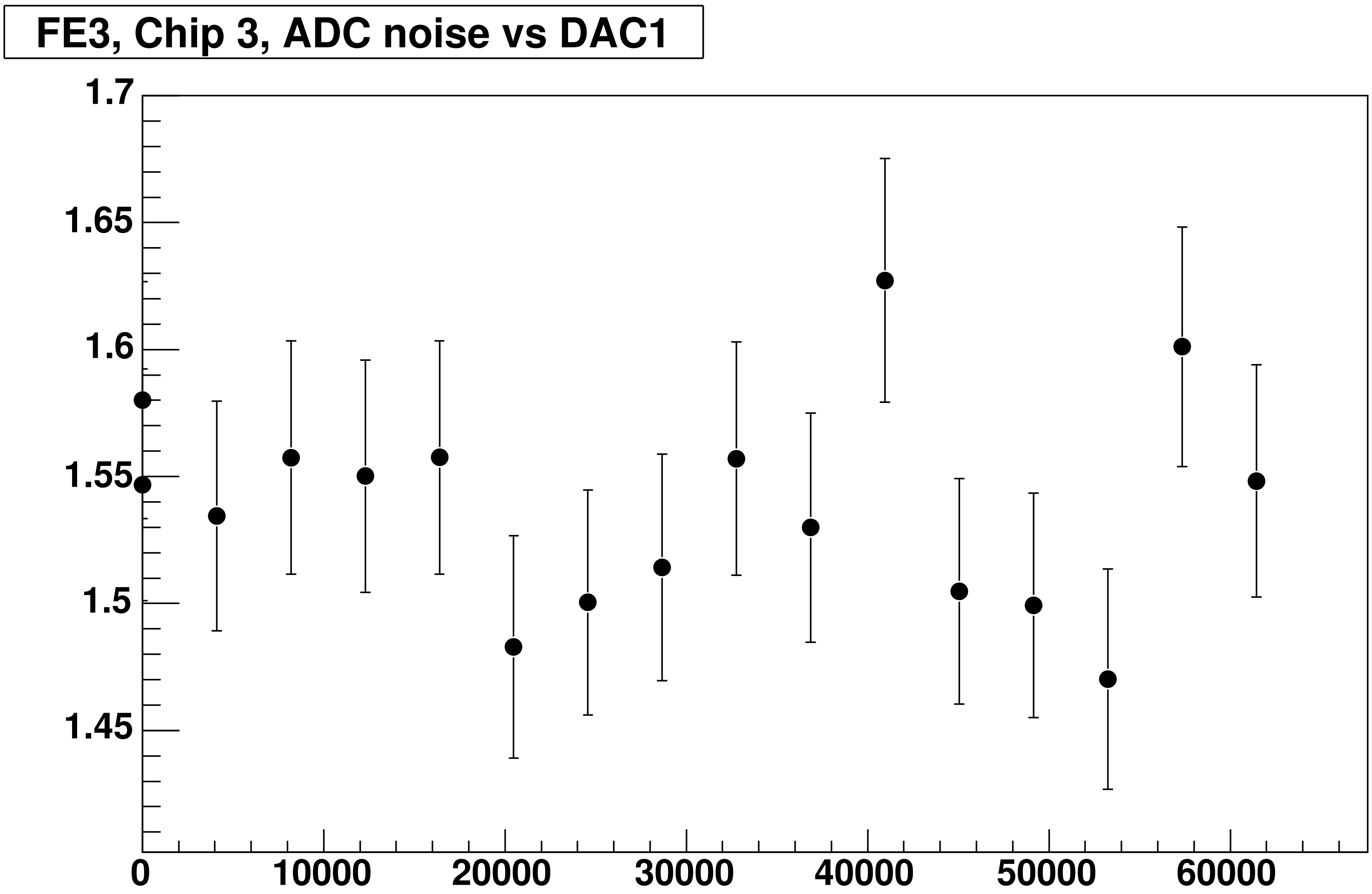

FE3, Chip 3, ADC mean vs DAC0
χ^2 / ndf 4377 / 11
p0 26.82 ± 0.04203
p1 0.4521 ± 1.364e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



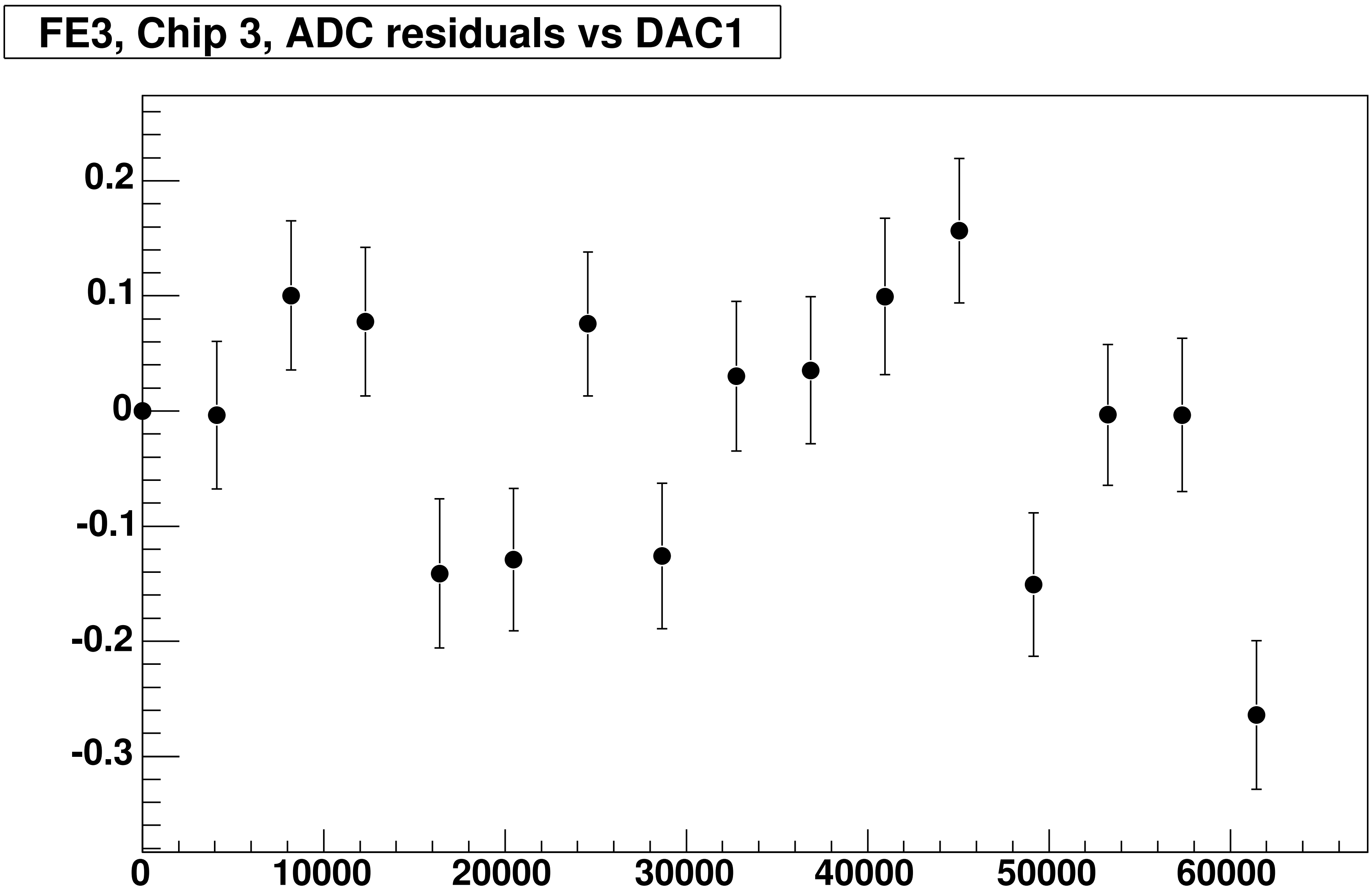
FE3, Chip 3, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

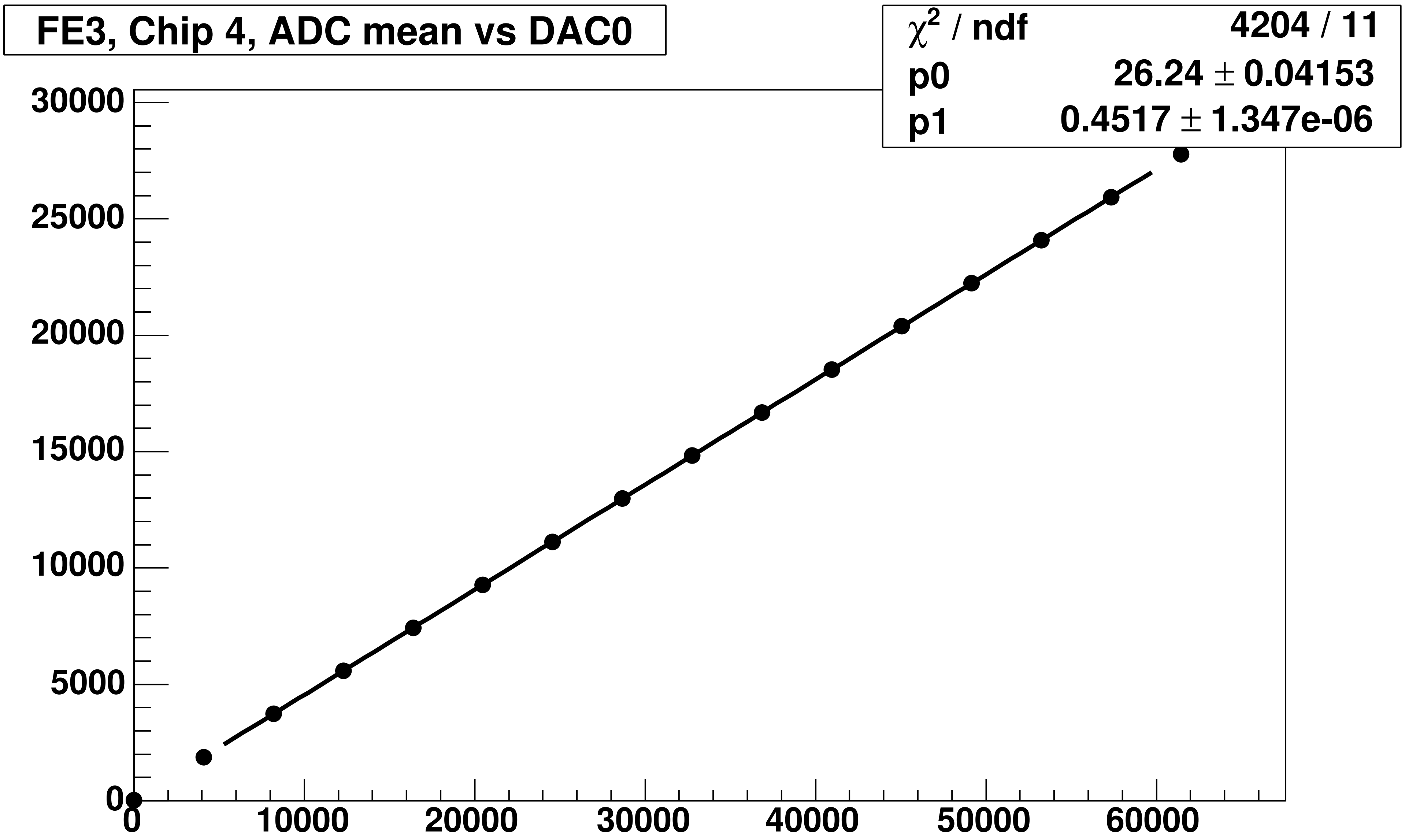

FE3, Chip 3, ADC residuals vs DAC0
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

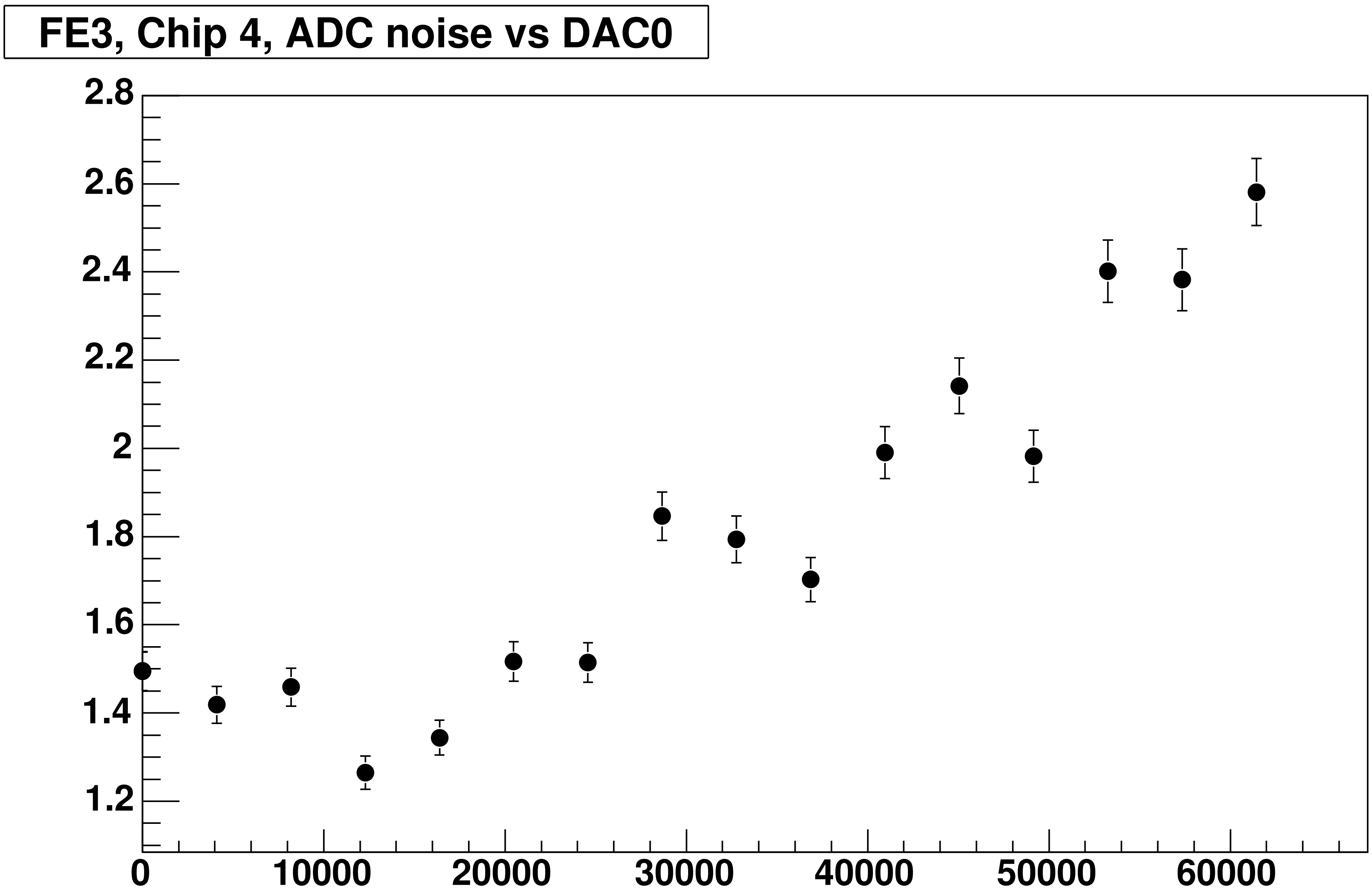

FE3, Chip 3, ADC mean vs DAC1
χ^2 / ndf 33.13 / 11
p0 24.02 ± 0.042
p1 -3.944e-07 ± 1.161e-06
24.2
24.1
24
23.9
23.8
23.7
0
10000
20000
30000
40000
50000
60000

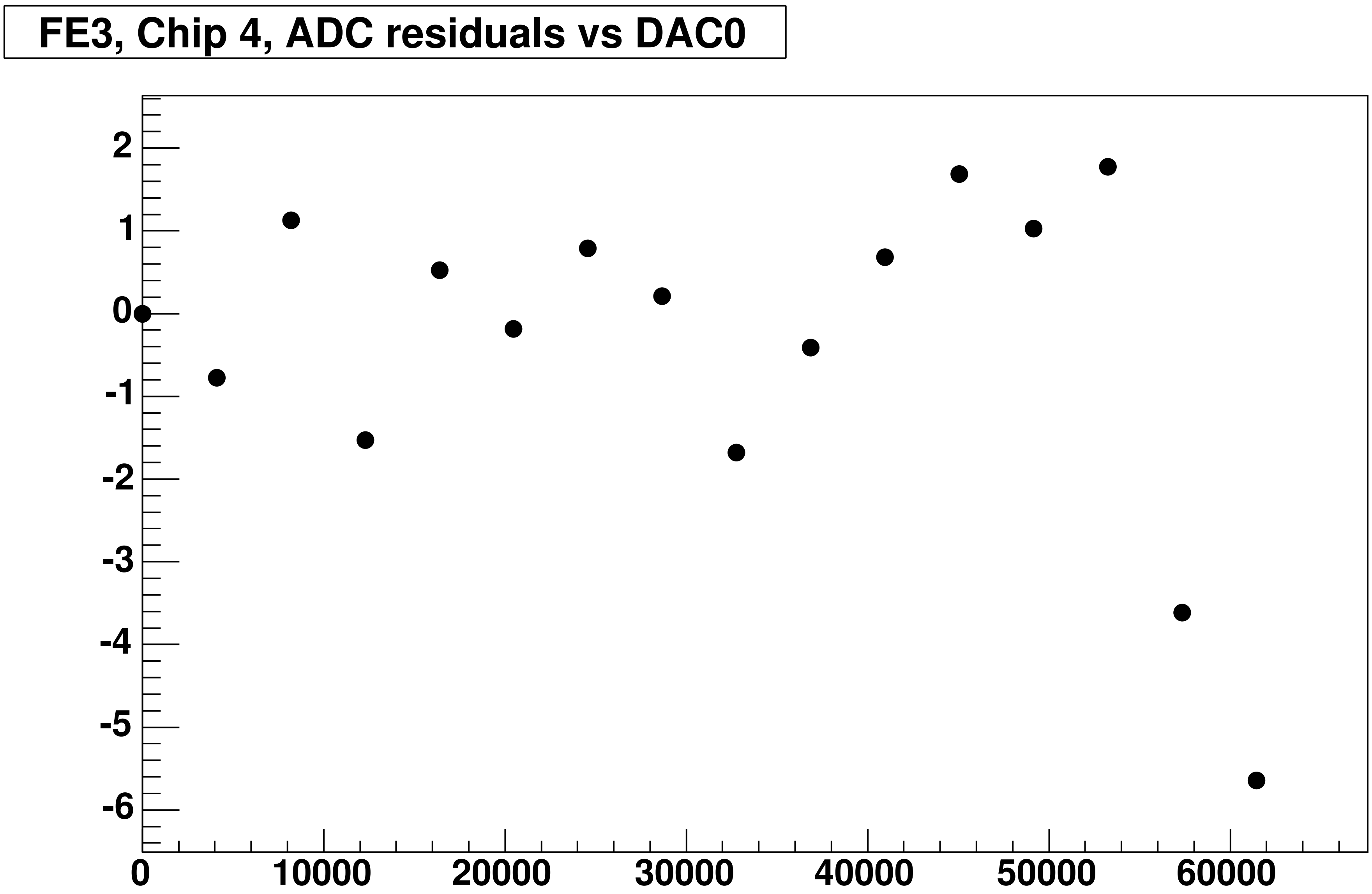


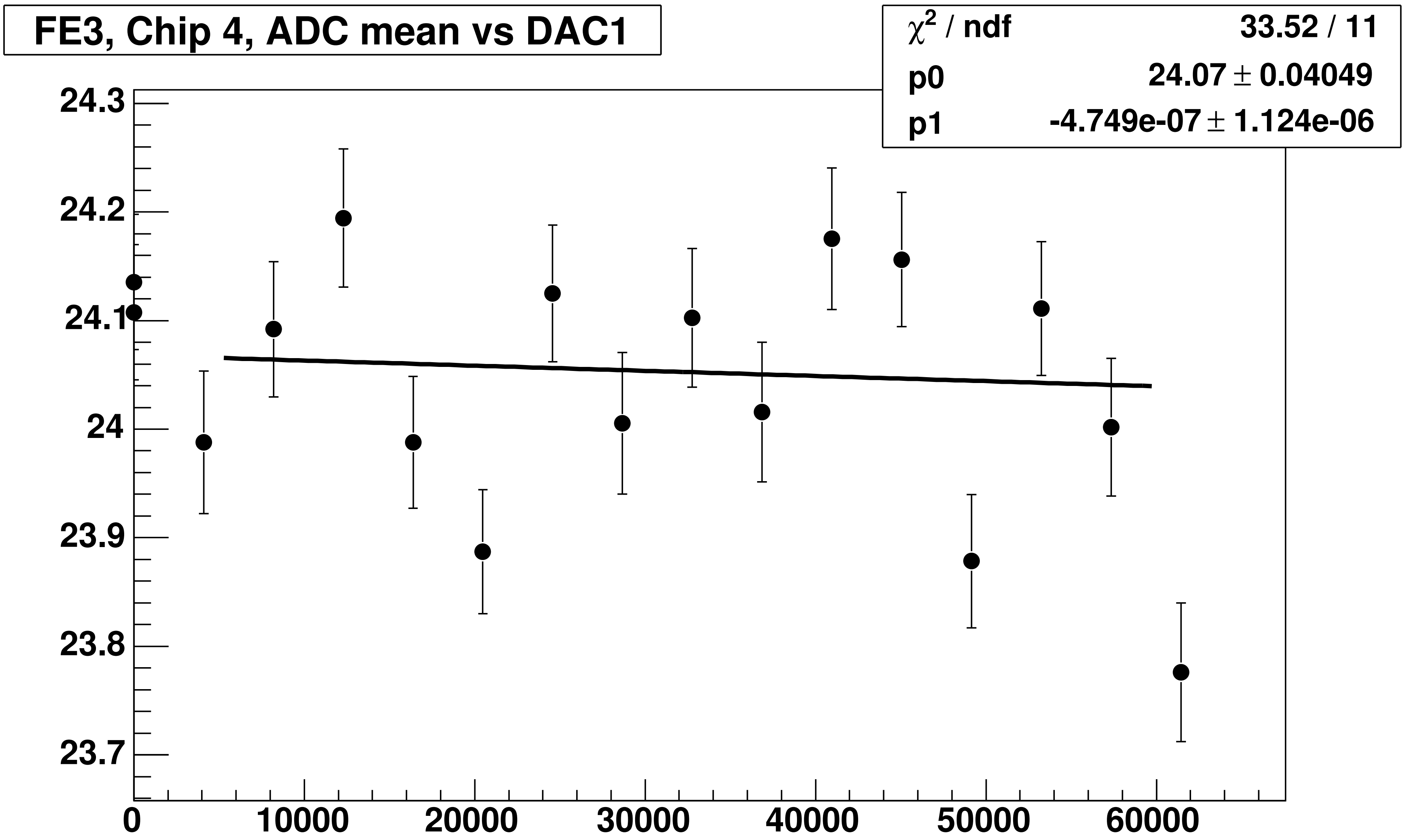
FE3, Chip 3, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000


FE3, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

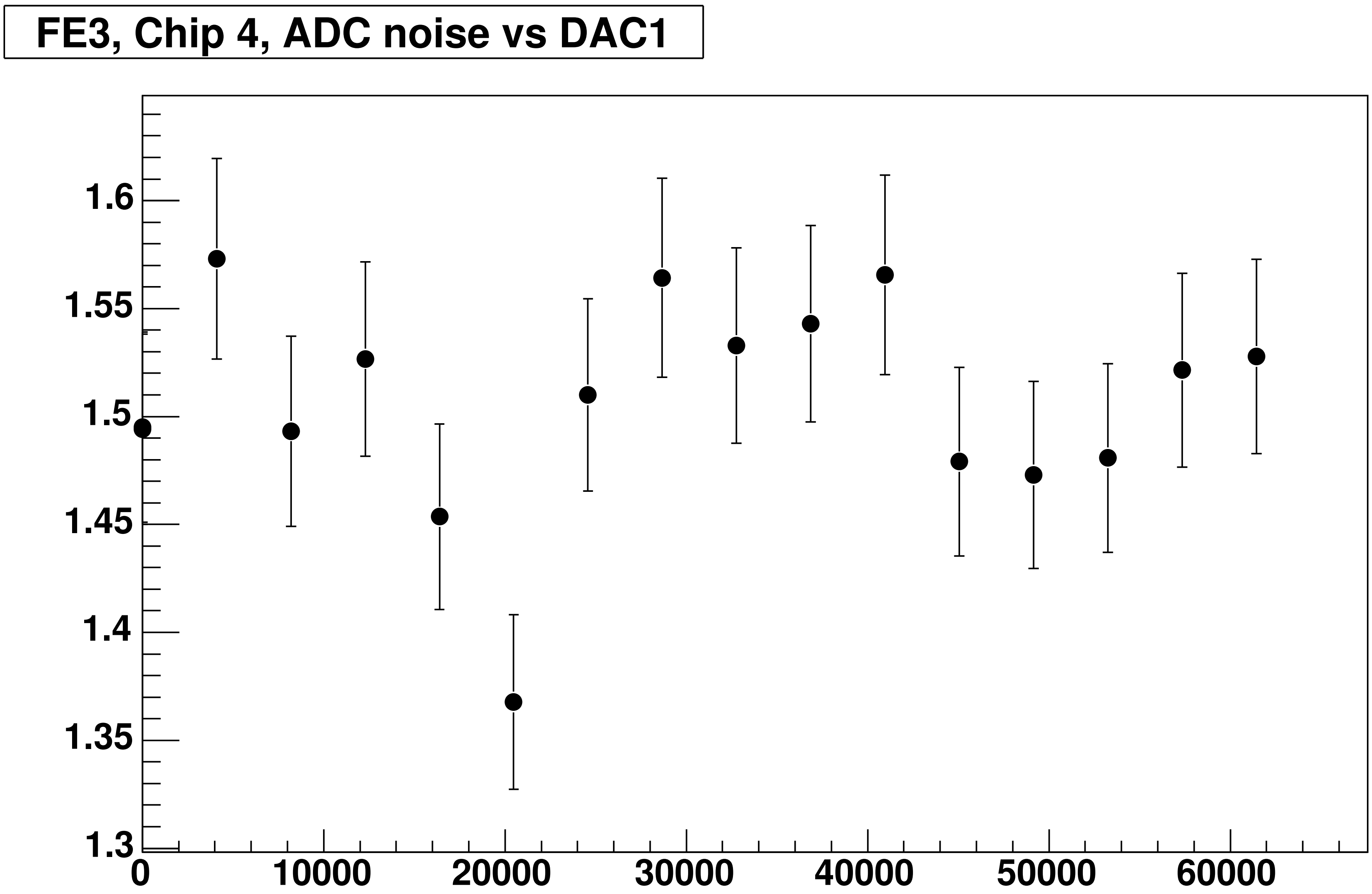

FE3, Chip 4, ADC mean vs DAC0
χ^2 / ndf 4204 / 11
p0 26.24 ± 0.04153
p1 0.4517 ± 1.347e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

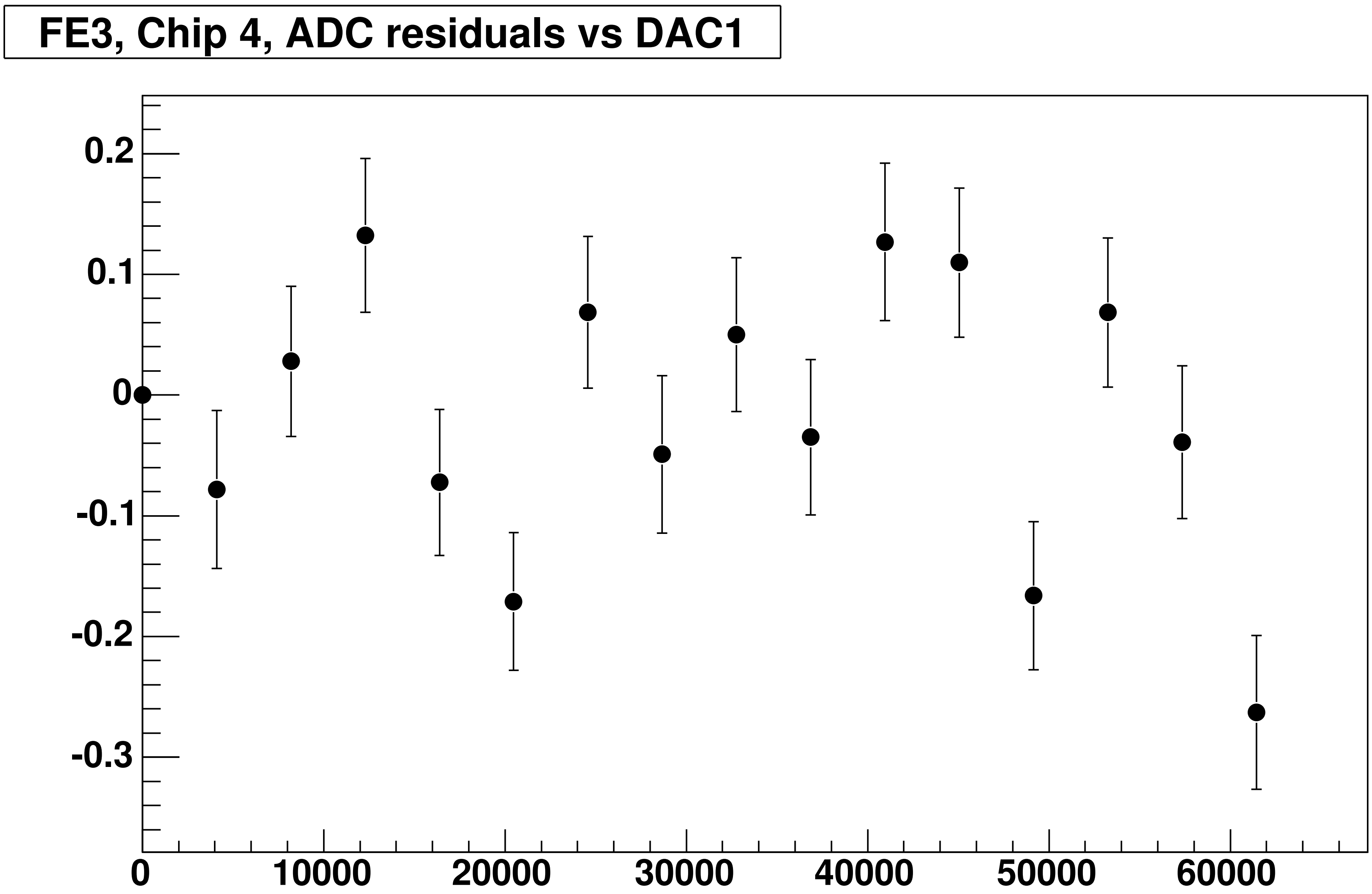

FE3, Chip 4, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

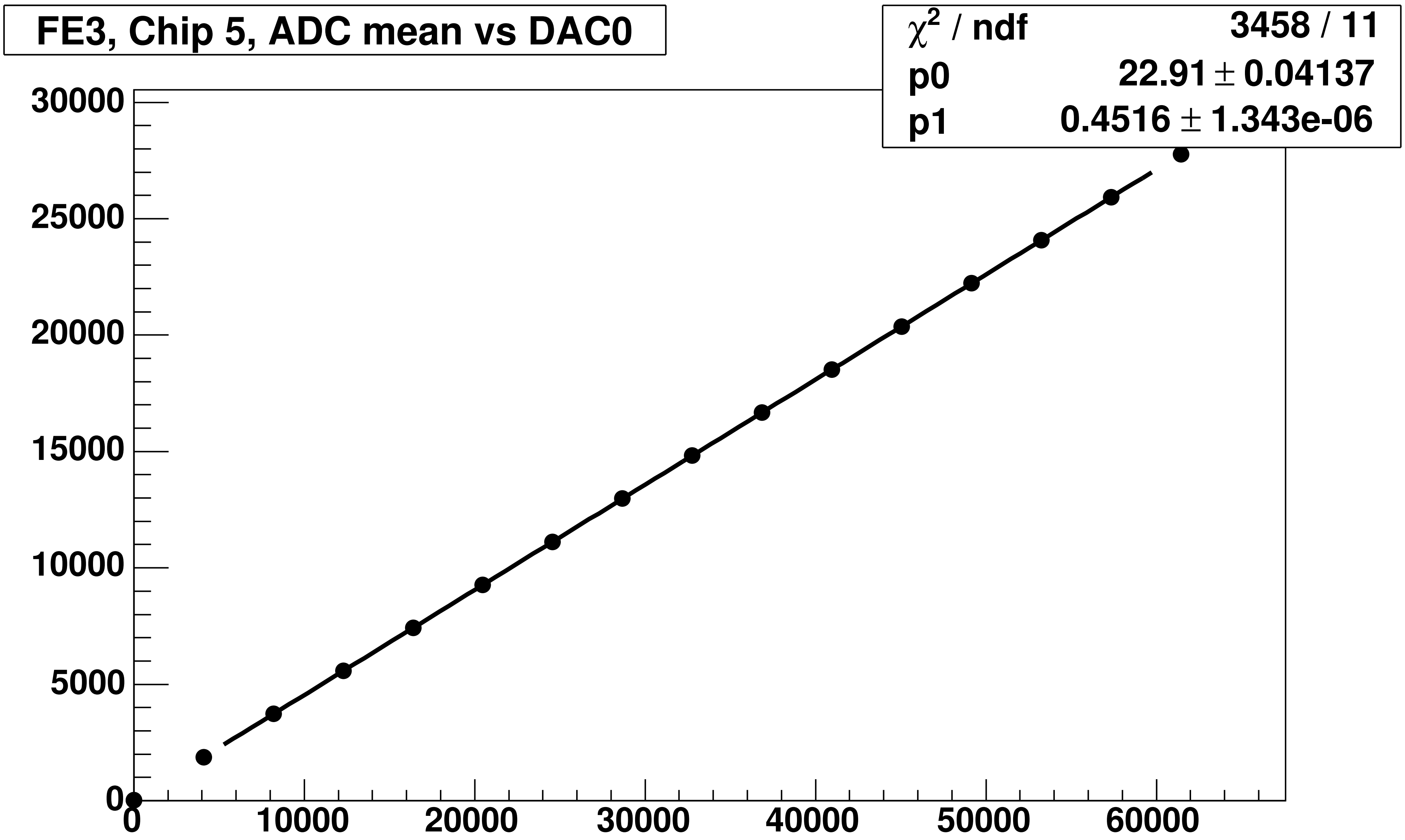

FE3, Chip 4, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



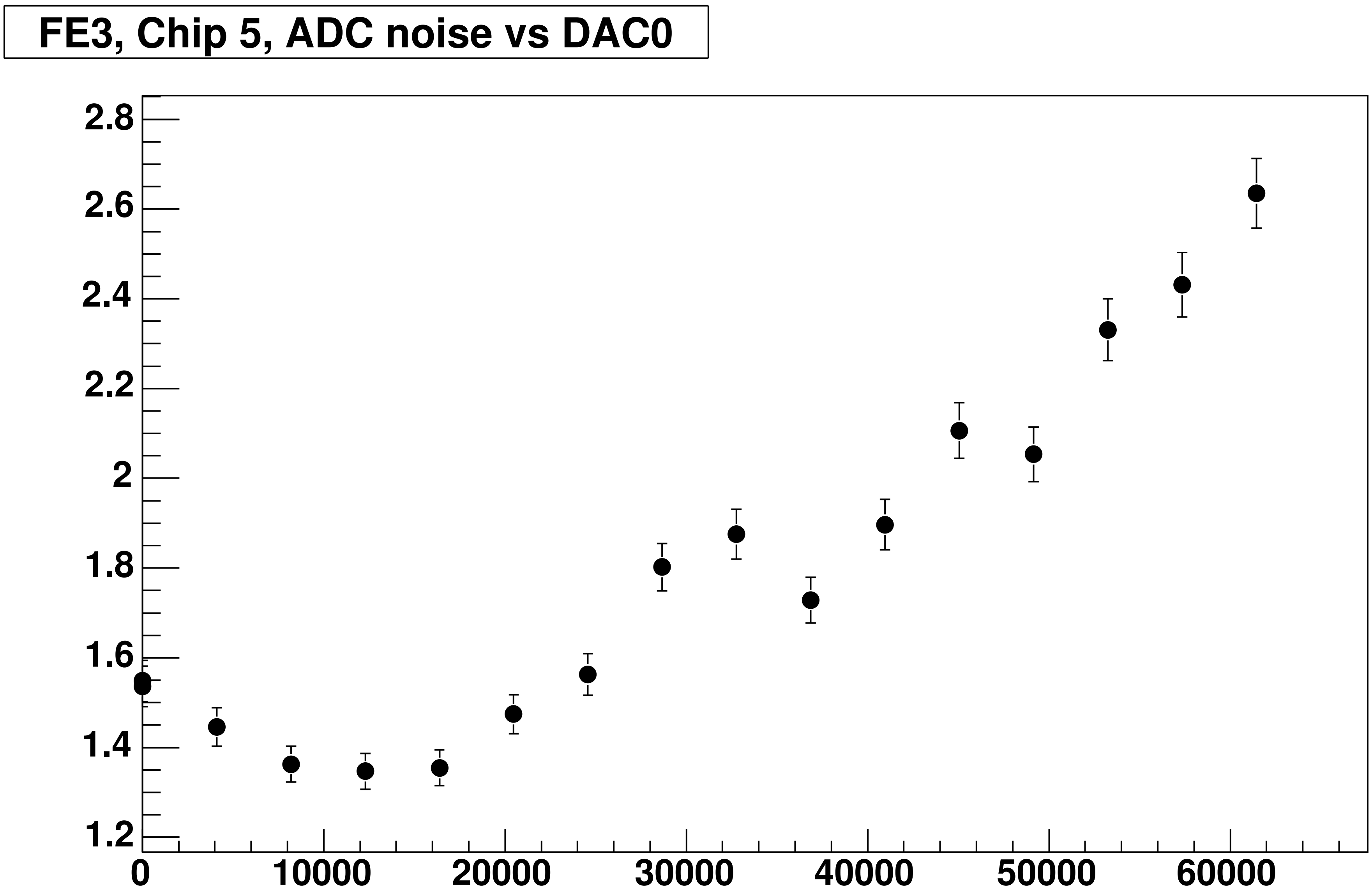
FE3, Chip 4, ADC mean vs DAC1
χ^2 / ndf 33.52 / 11
p0 24.07 ± 0.04049
p1 -4.749e-07 ± 1.124e-06
24.3
24.2
24.1
24
23.9
23.8
23.7
0
10000
20000
30000
40000
50000
60000

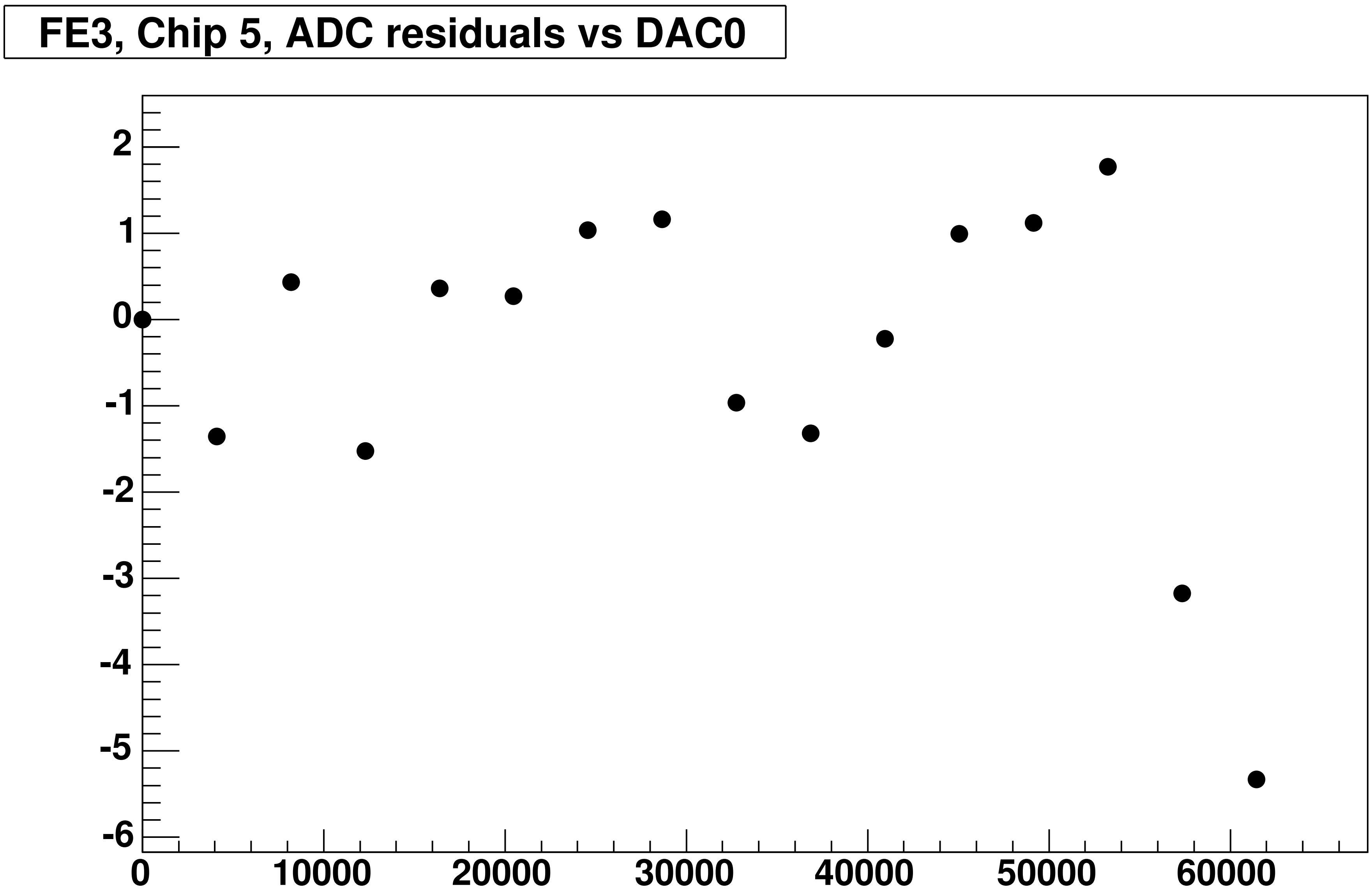

FE3, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


FE3, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

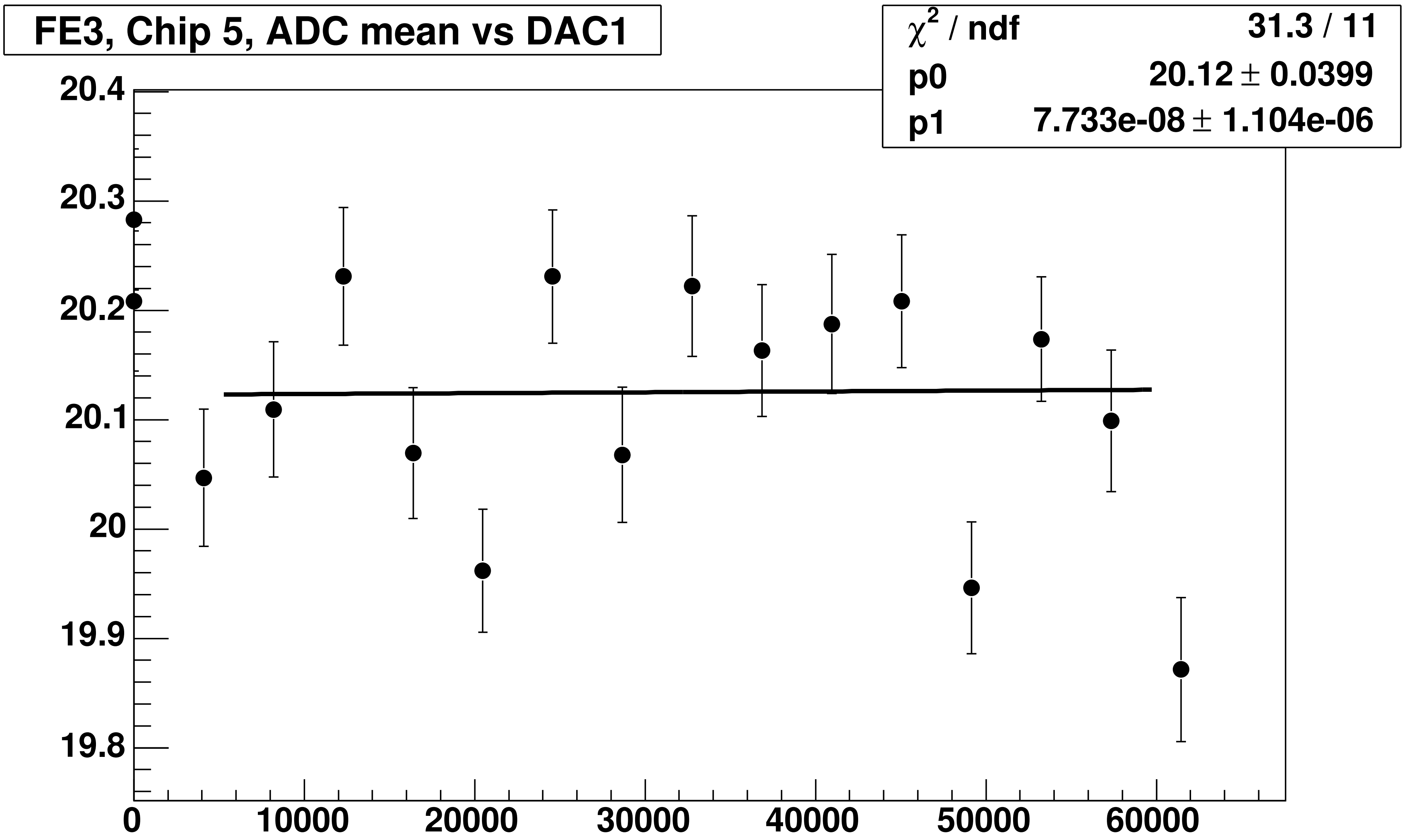


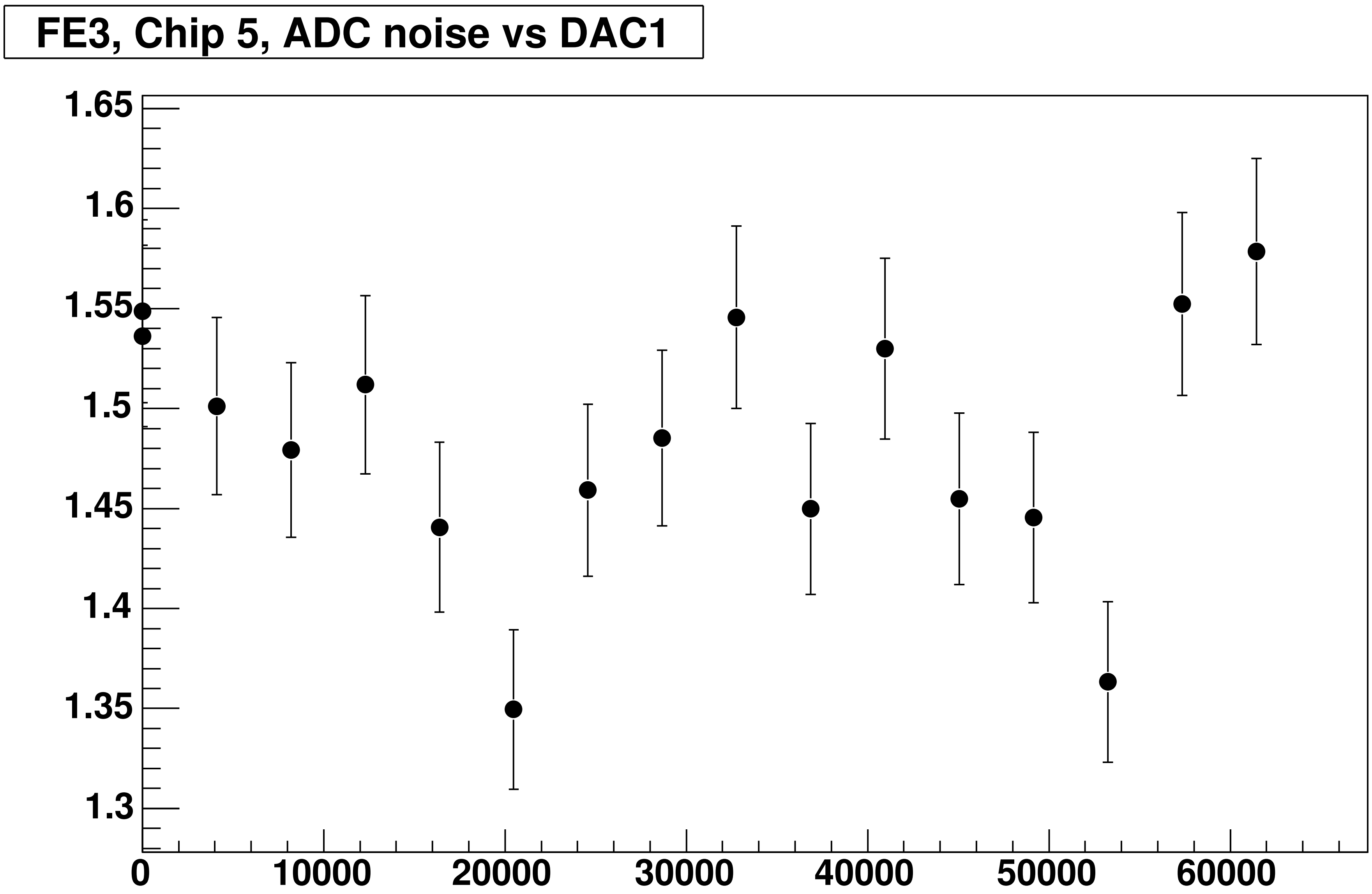
FE3, Chip 5, ADC mean vs DAC0
χ^2 / ndf 3458 / 11
p0 22.91 ± 0.04137
p1 0.4516 ± 1.343e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE3, Chip 5, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

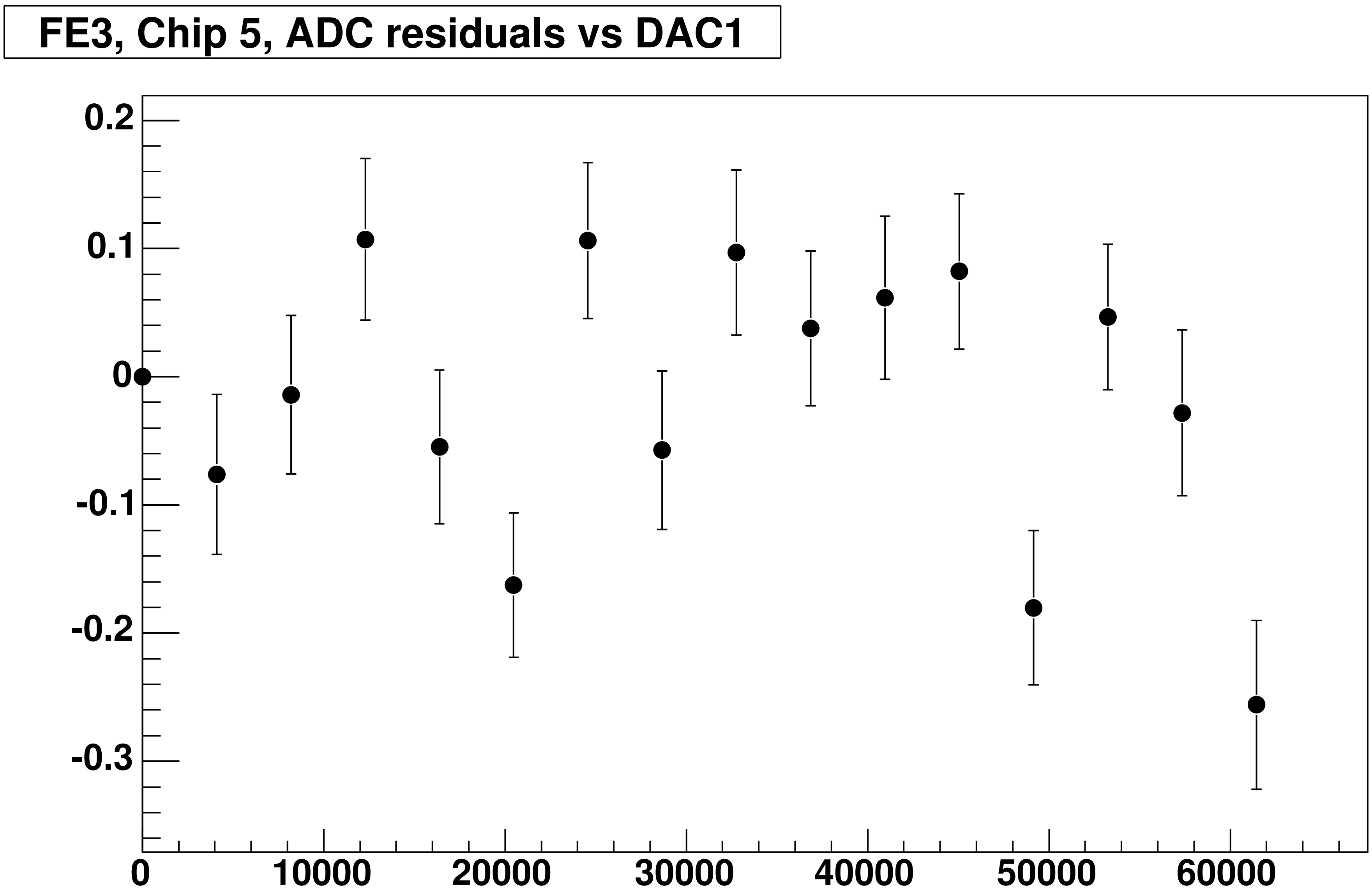


FE3, Chip 5, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

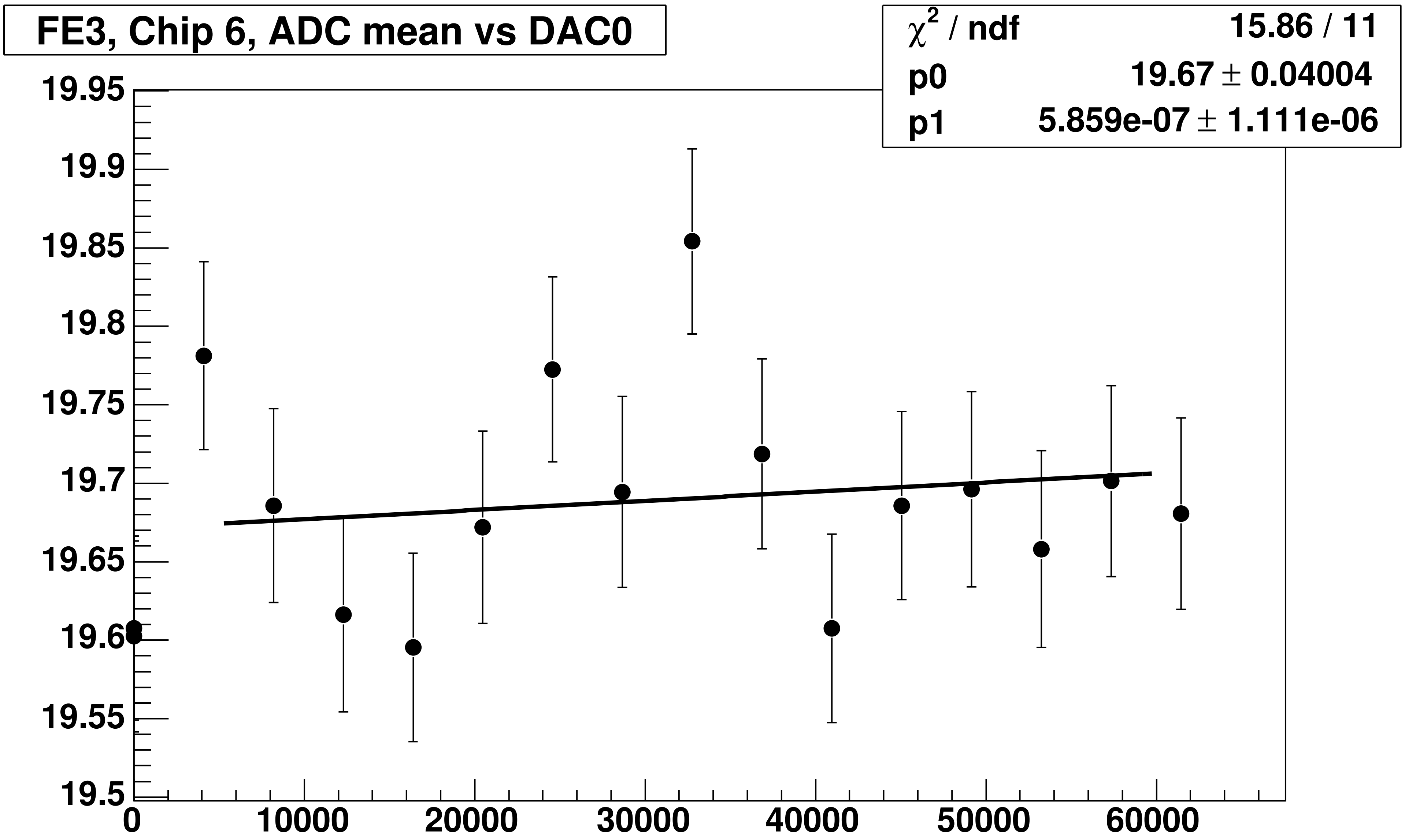

FE3, Chip 5, ADC mean vs DAC1
χ^2 / ndf 31.3 / 11
p0 20.12 ± 0.0399
p1 7.733e-08 ± 1.104e-06
20.4
20.3
20.2
20.1
20
19.9
19.8
0
10000
20000
30000
40000
50000
60000

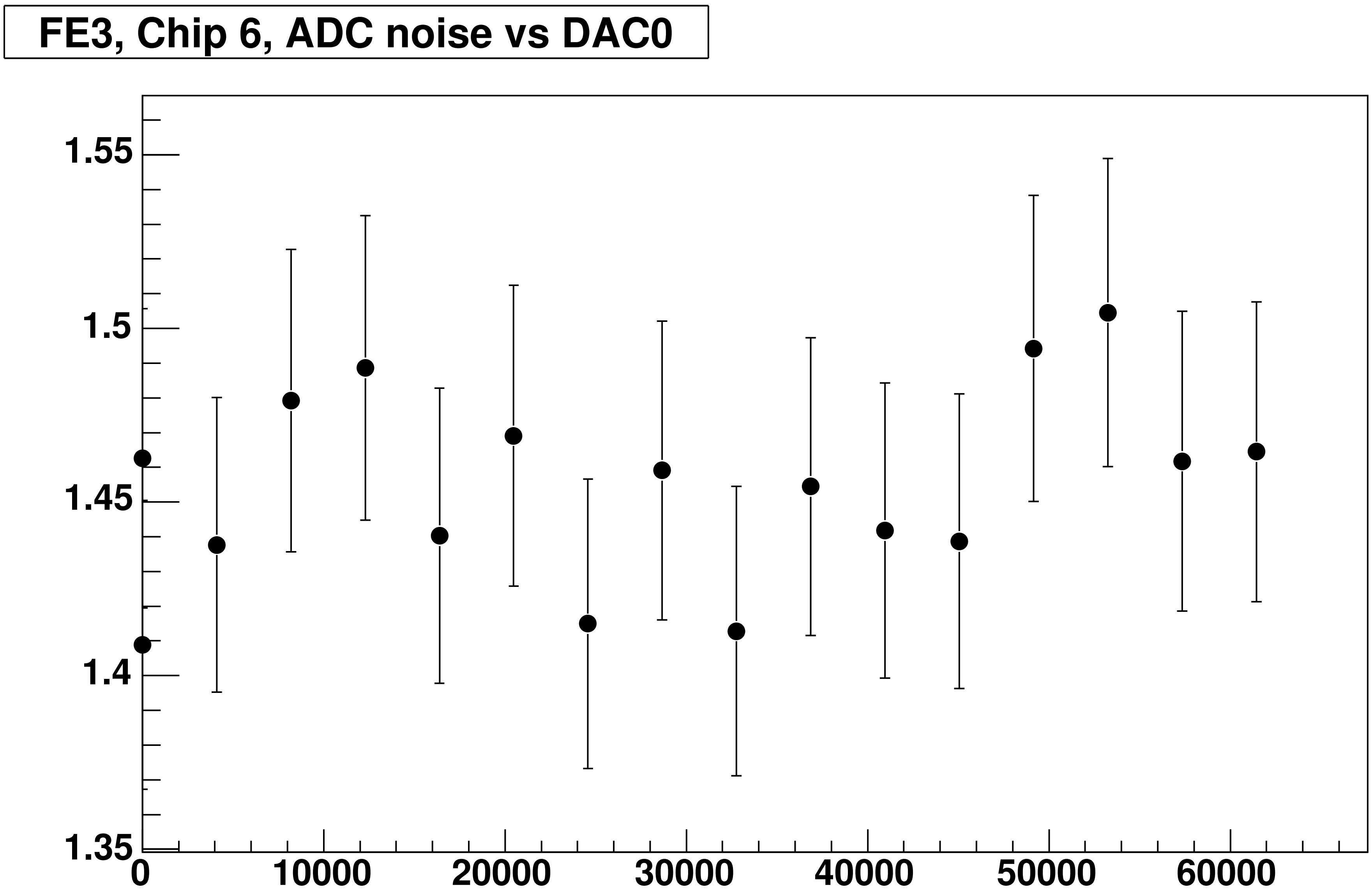


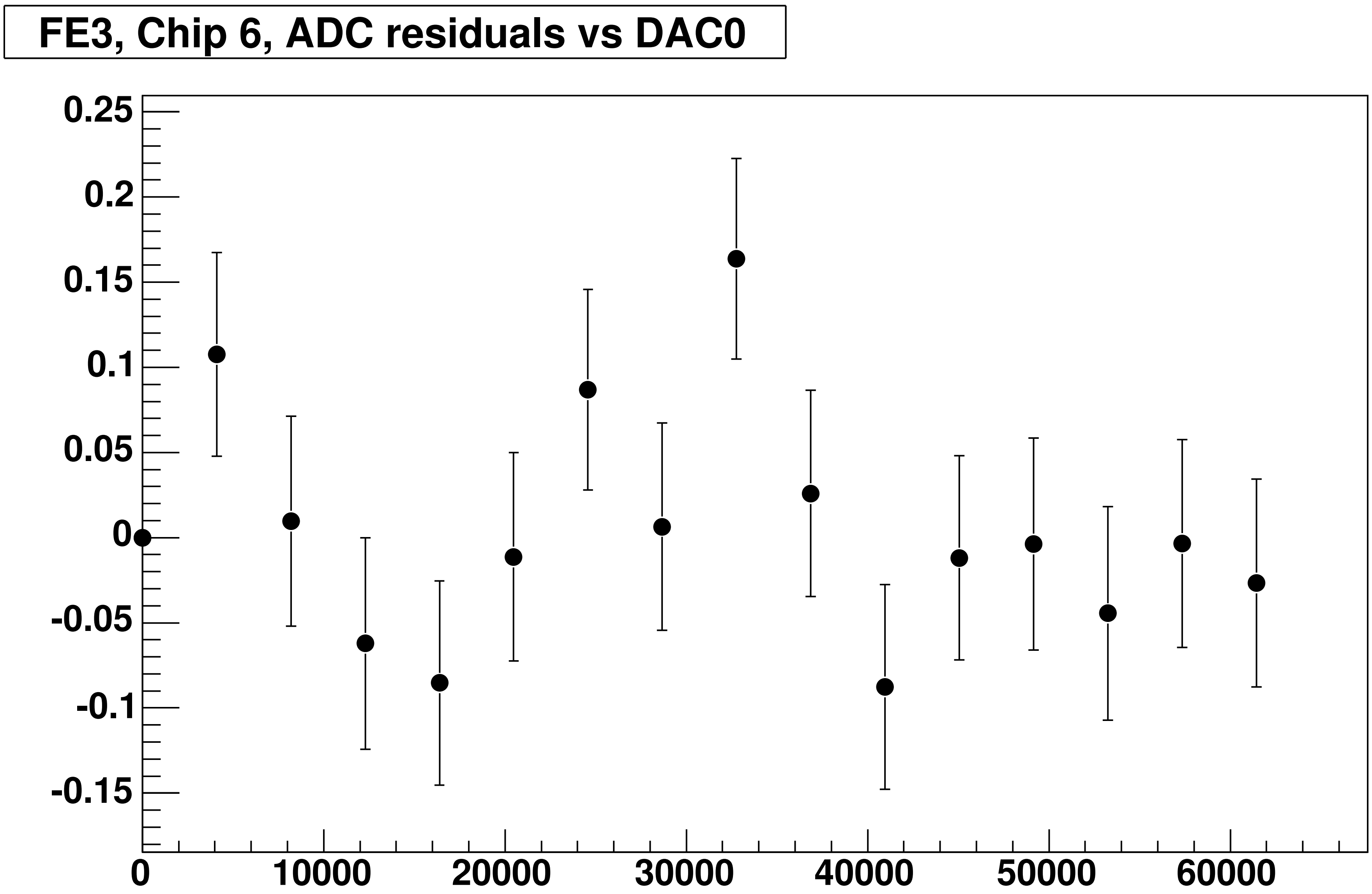
FE3, Chip 5, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



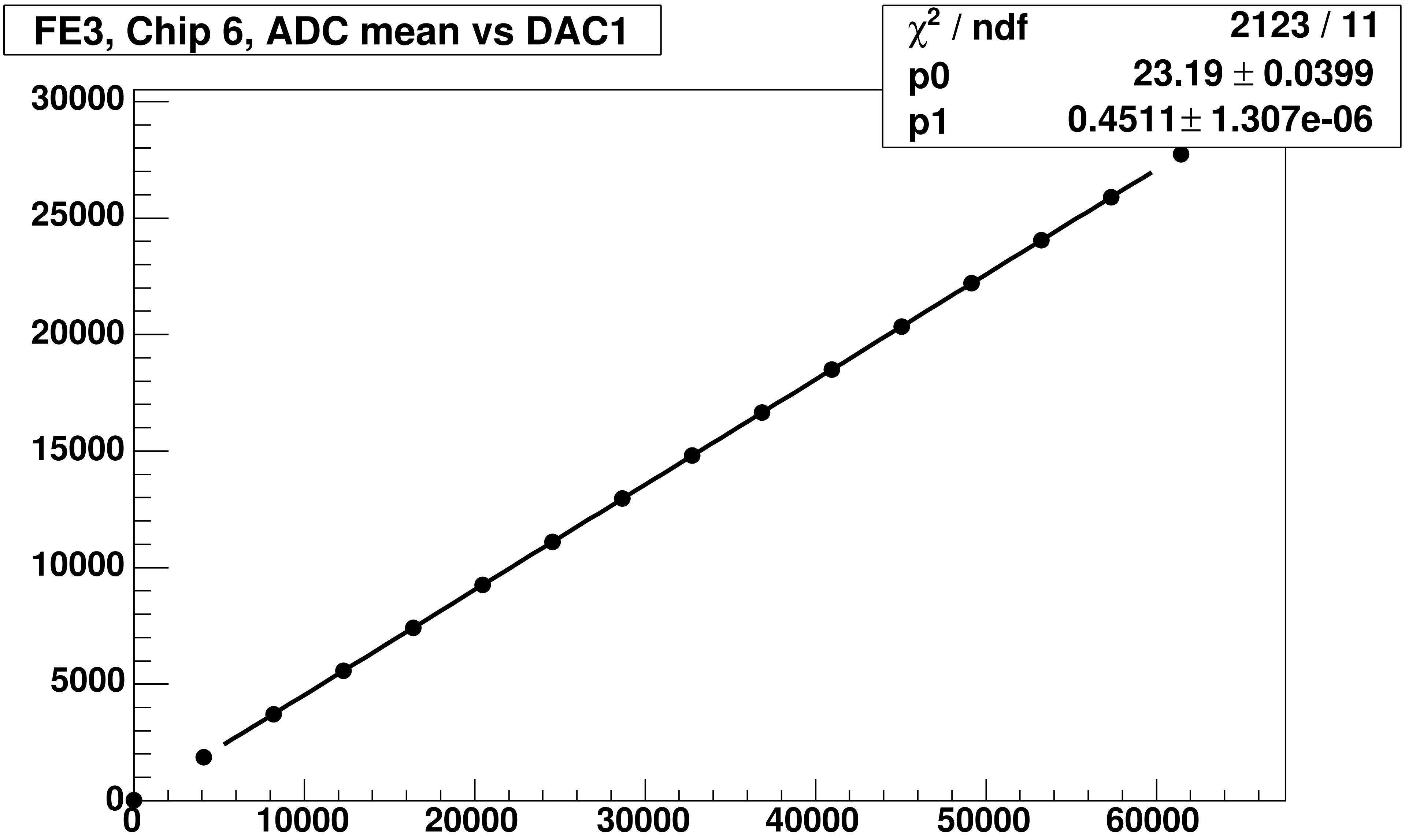
FE3, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE3, Chip 6, ADC mean vs DAC0
χ² / ndf 15.86 / 11
p0 19.67 ± 0.04004
p1 5.859e-07 ± 1.111e-06
19.95
19.9
19.85
19.8
19.75
19.7
19.65
19.6
19.55
19.5
0
10000
20000
30000
40000
50000
60000

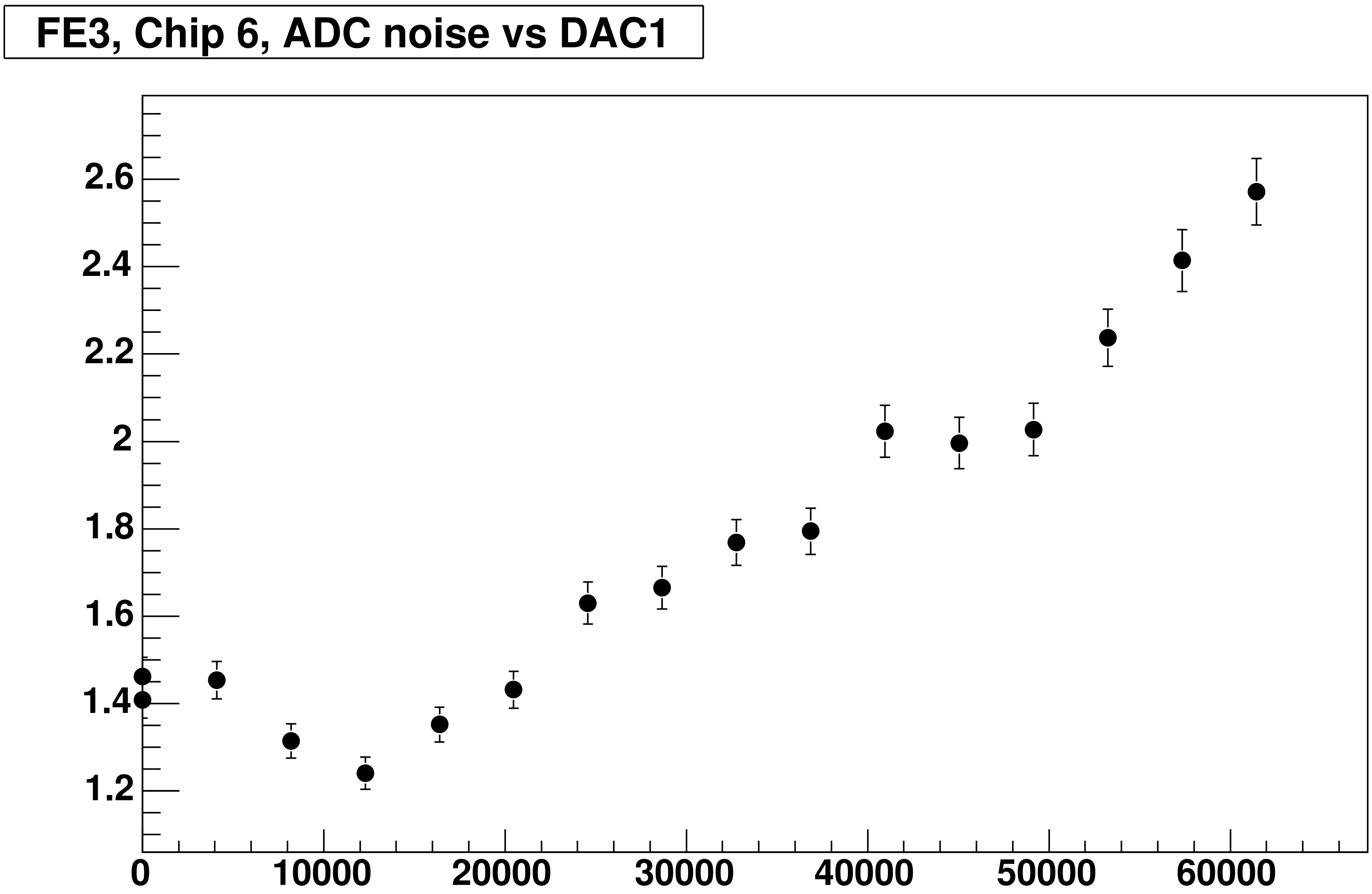

FE3, Chip 6, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



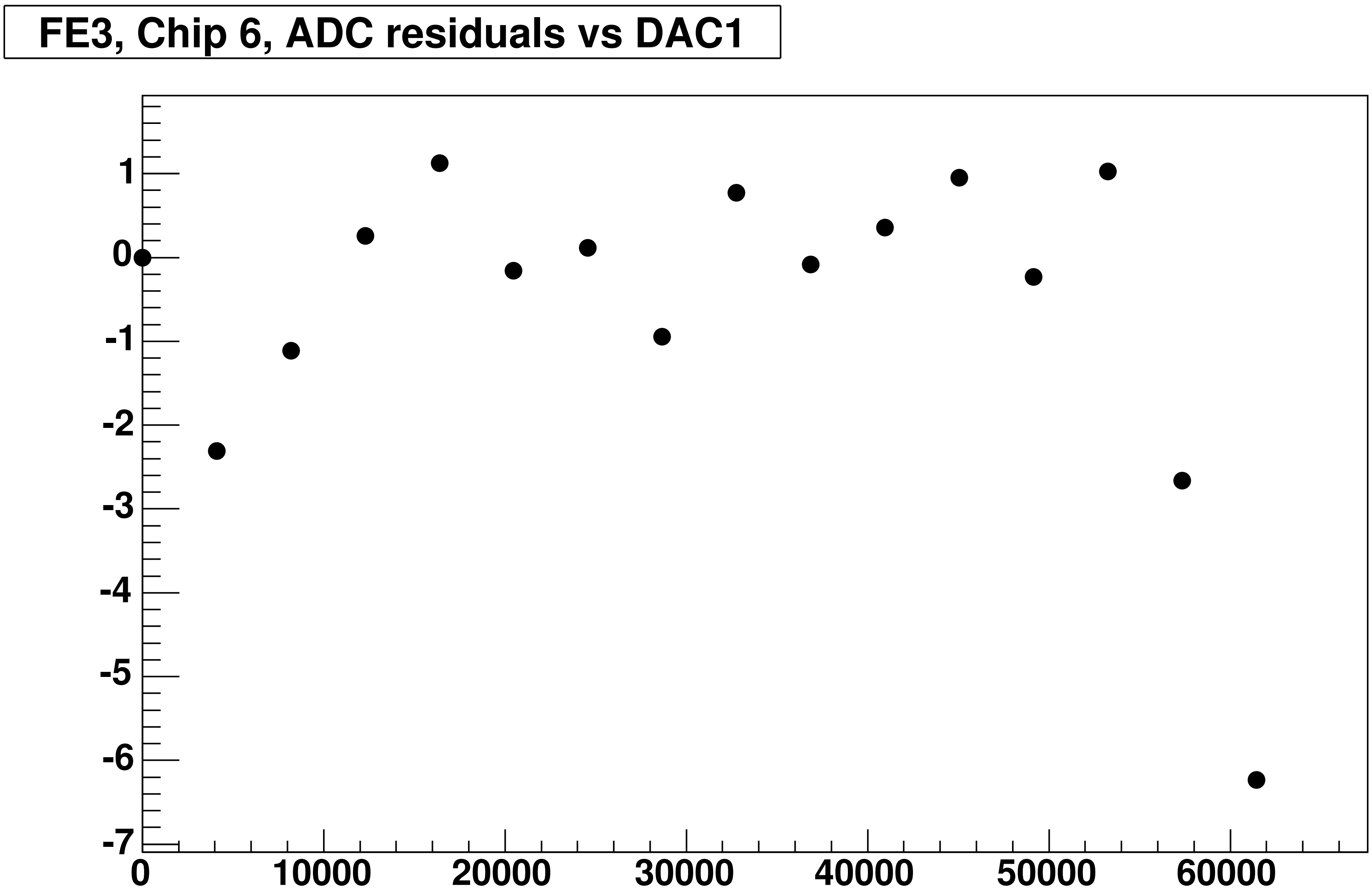
FE3, Chip 6, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

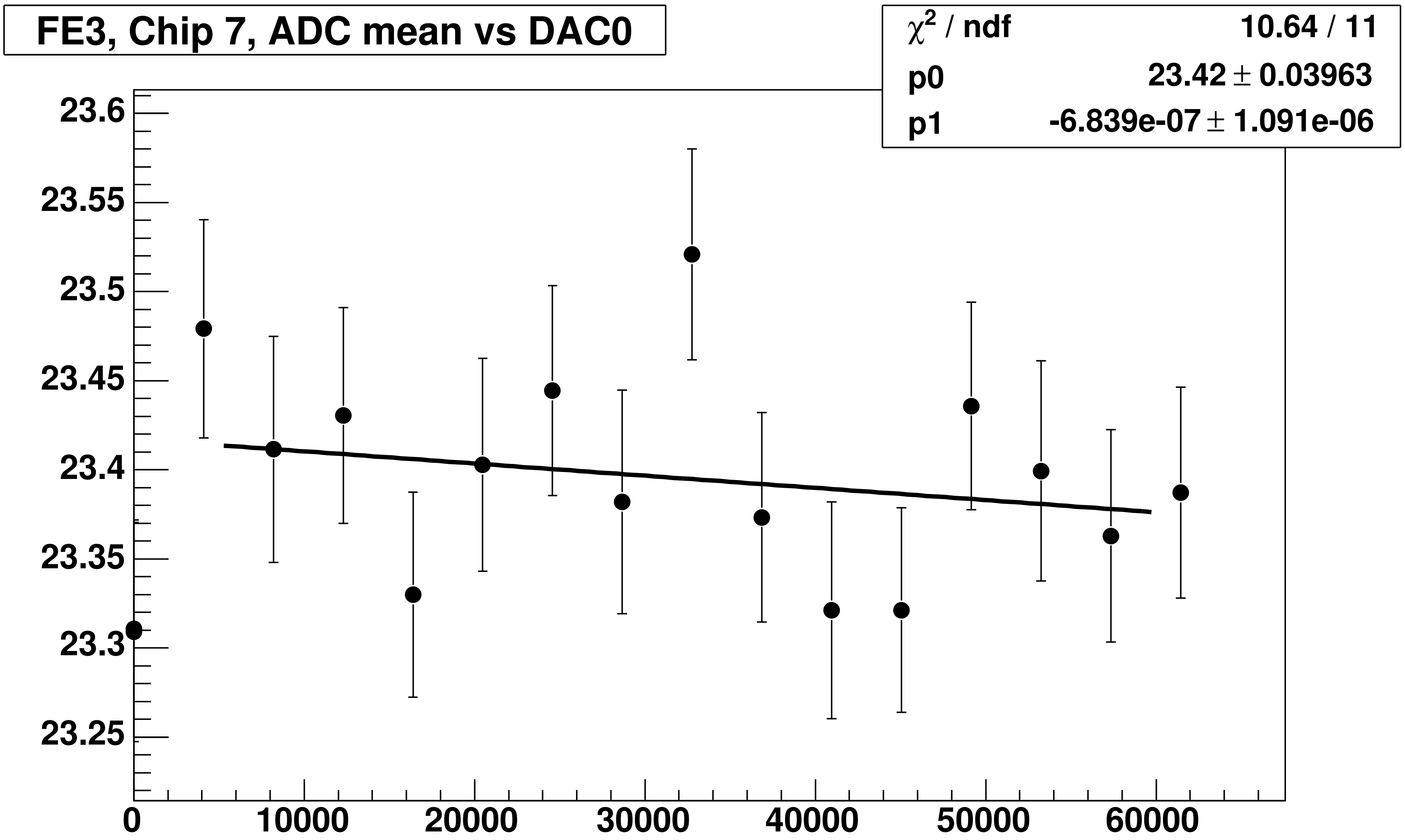


FE3, Chip 6, ADC mean vs DAC1
χ^2 / ndf 2123 / 11
p0 23.19 ± 0.0399
p1 0.4511 ± 1.307e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

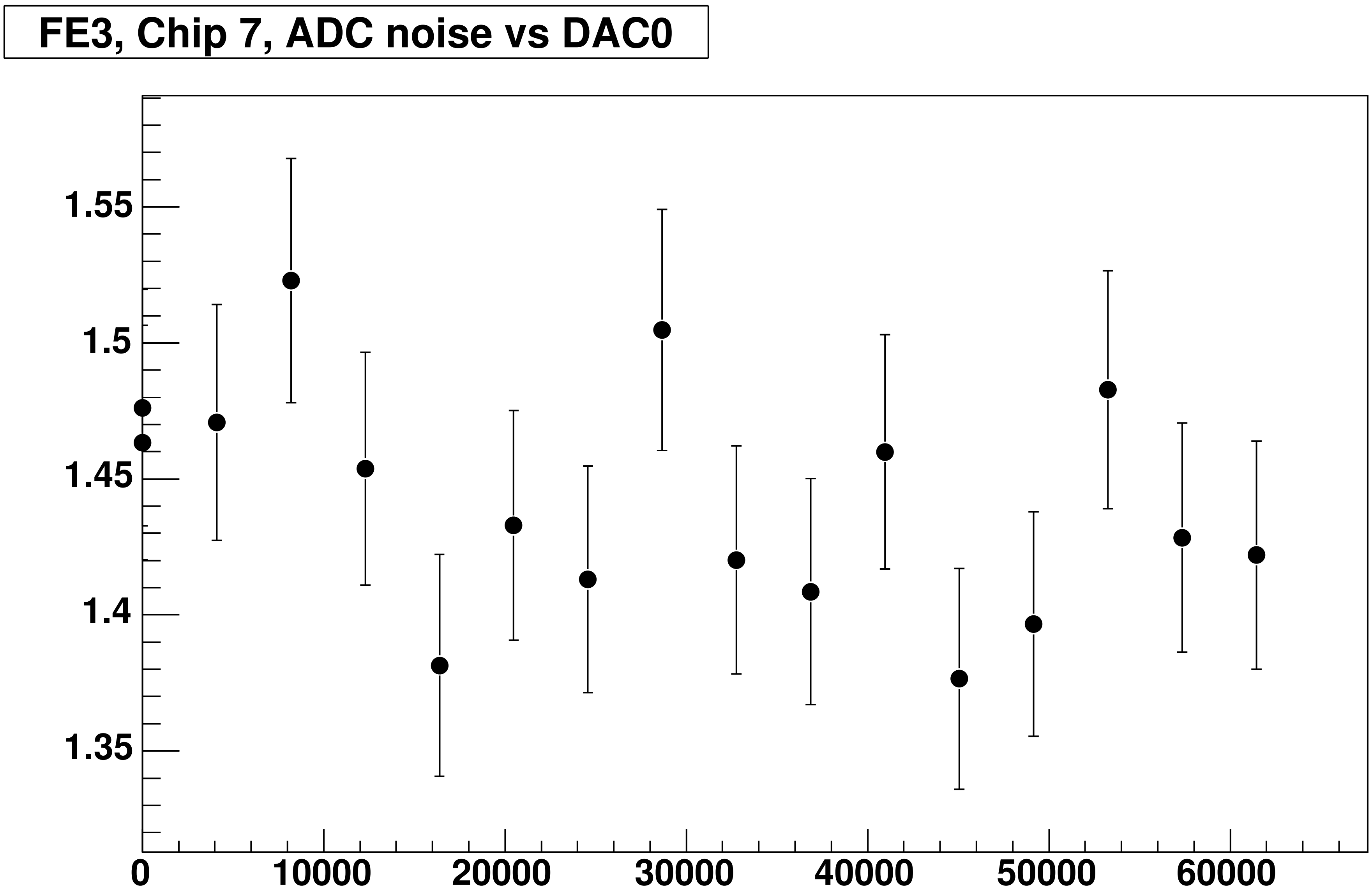


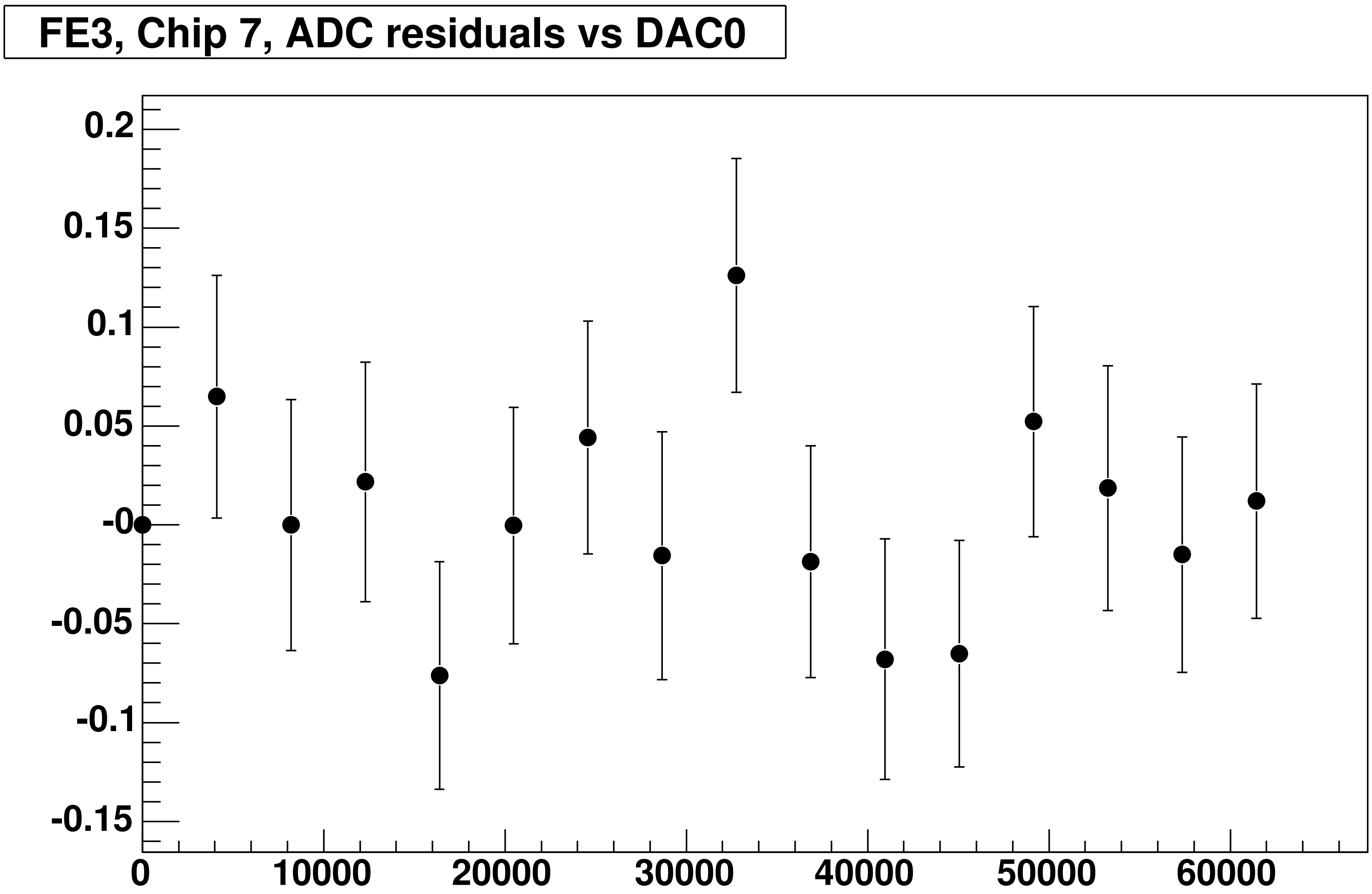
FE3, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

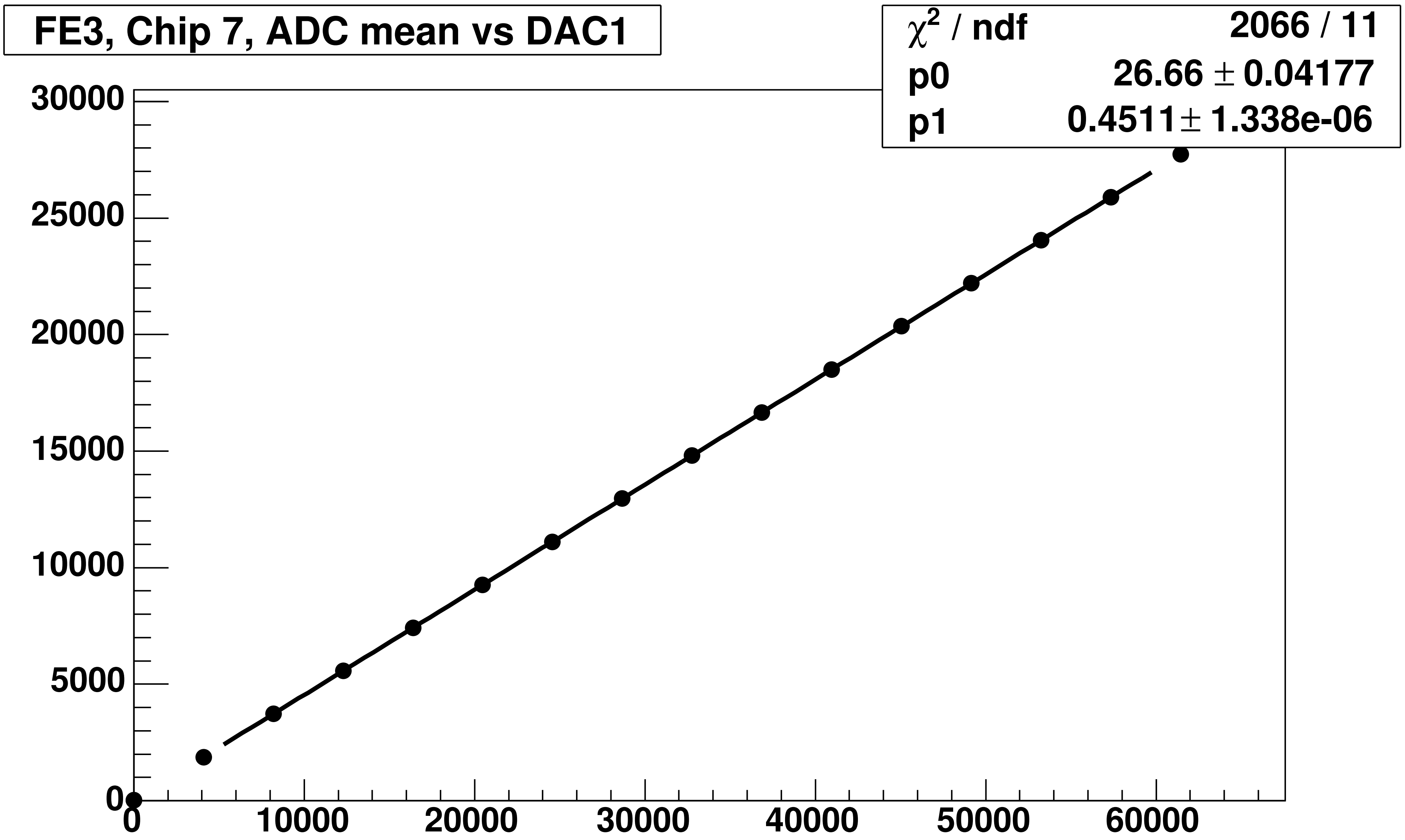

FE3, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

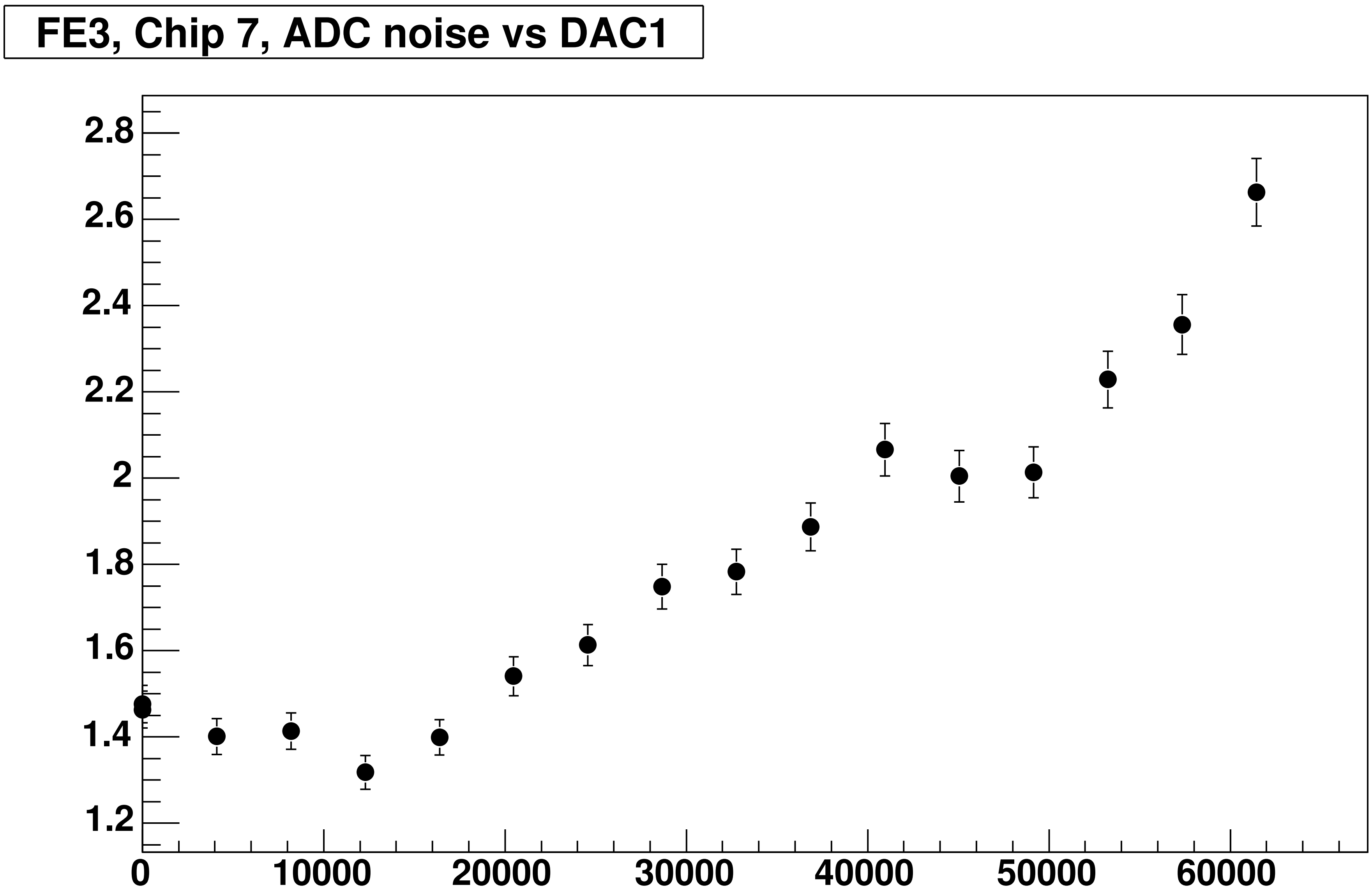


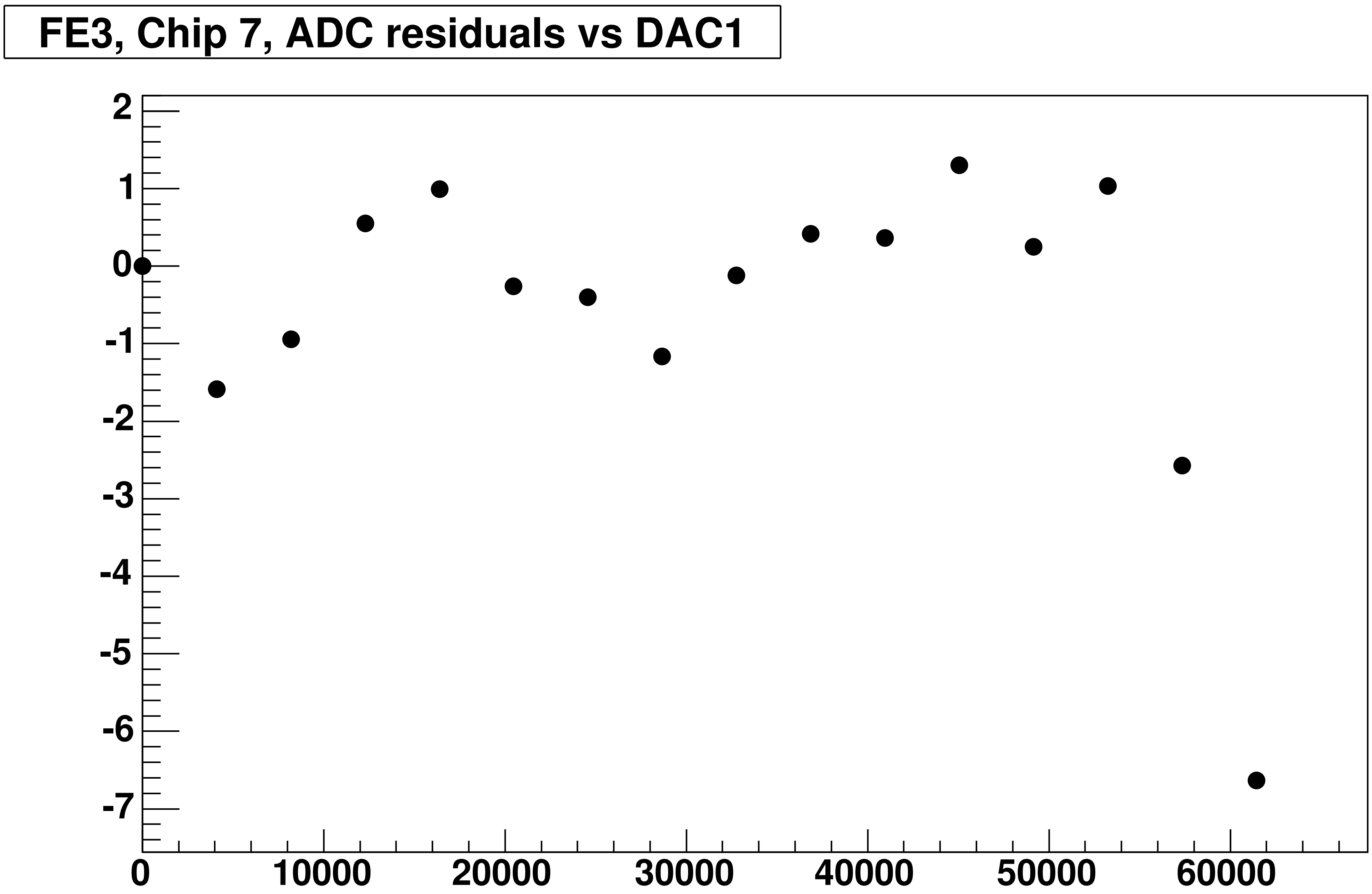
FE3, Chip 7, ADC mean vs DAC0
χ^2 / ndf 10.64 / 11
p0 23.42 ± 0.03963
p1 -6.839e-07 ± 1.091e-06
23.6
23.55
23.5
23.45
23.4
23.35
23.3
23.25
0
10000
20000
30000
40000
50000
60000

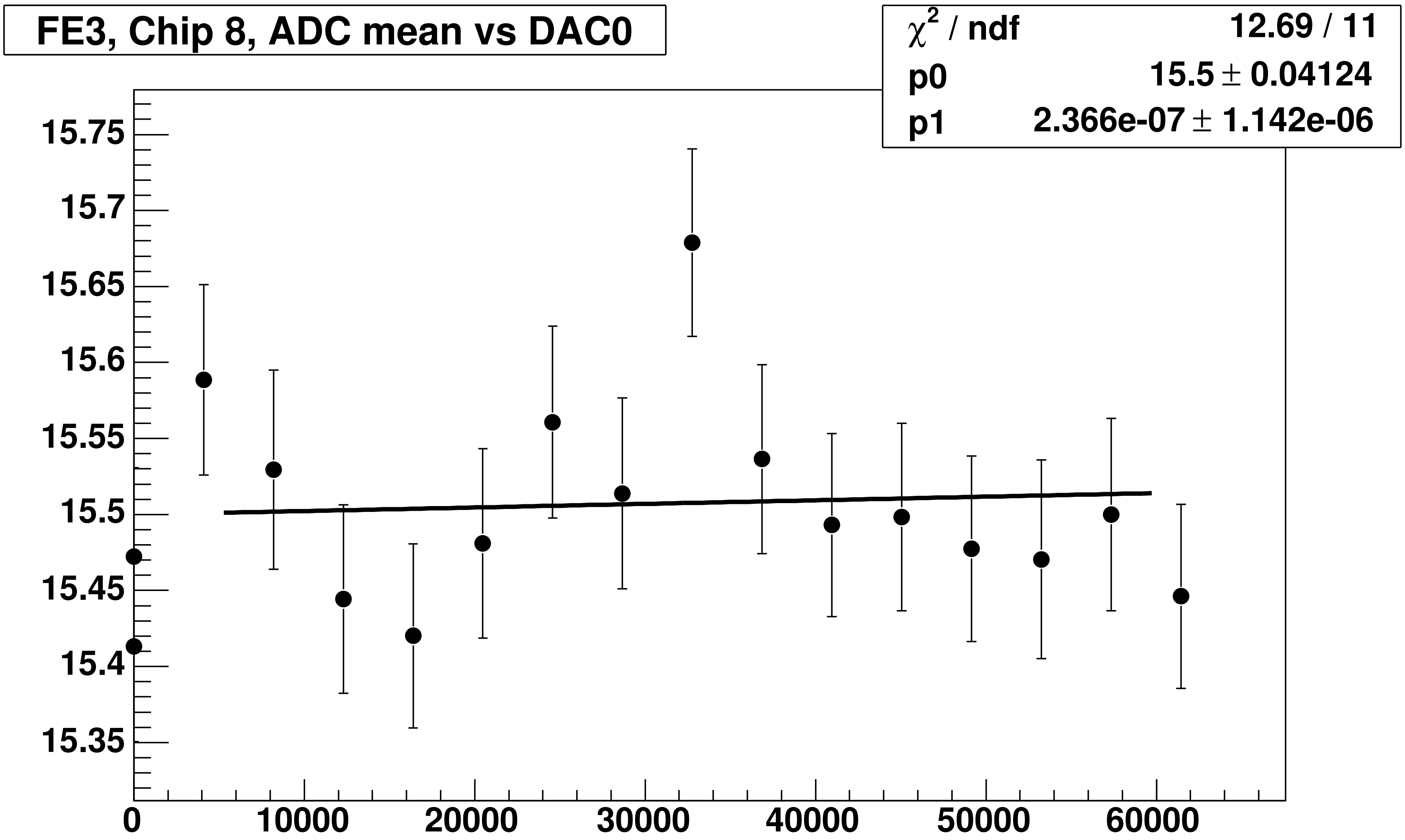

FE3, Chip 7, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

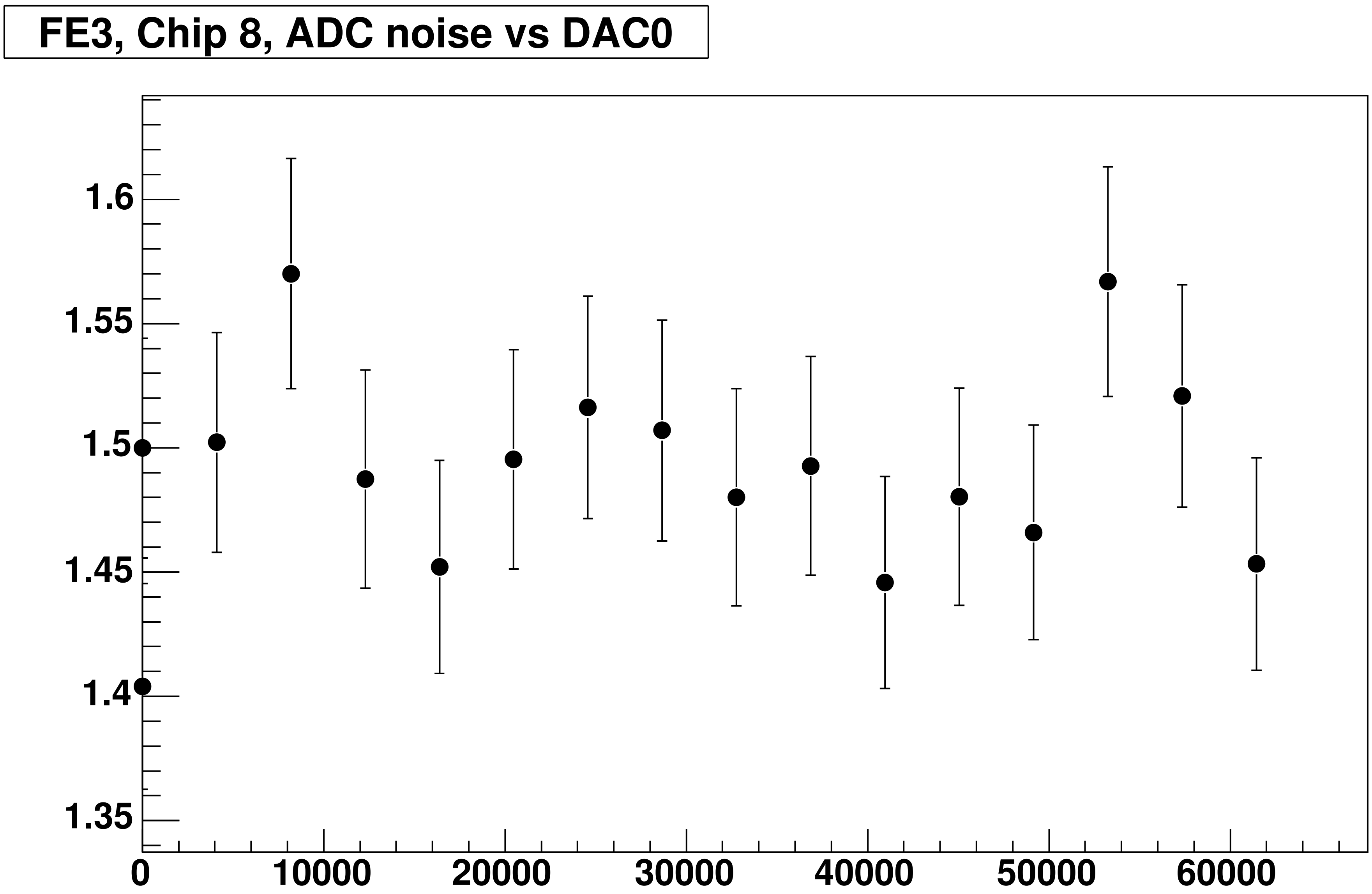

FE3, Chip 7, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000


FE3, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2066 / 11
p0 26.66 ± 0.04177
p1 0.4511 ± 1.338e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

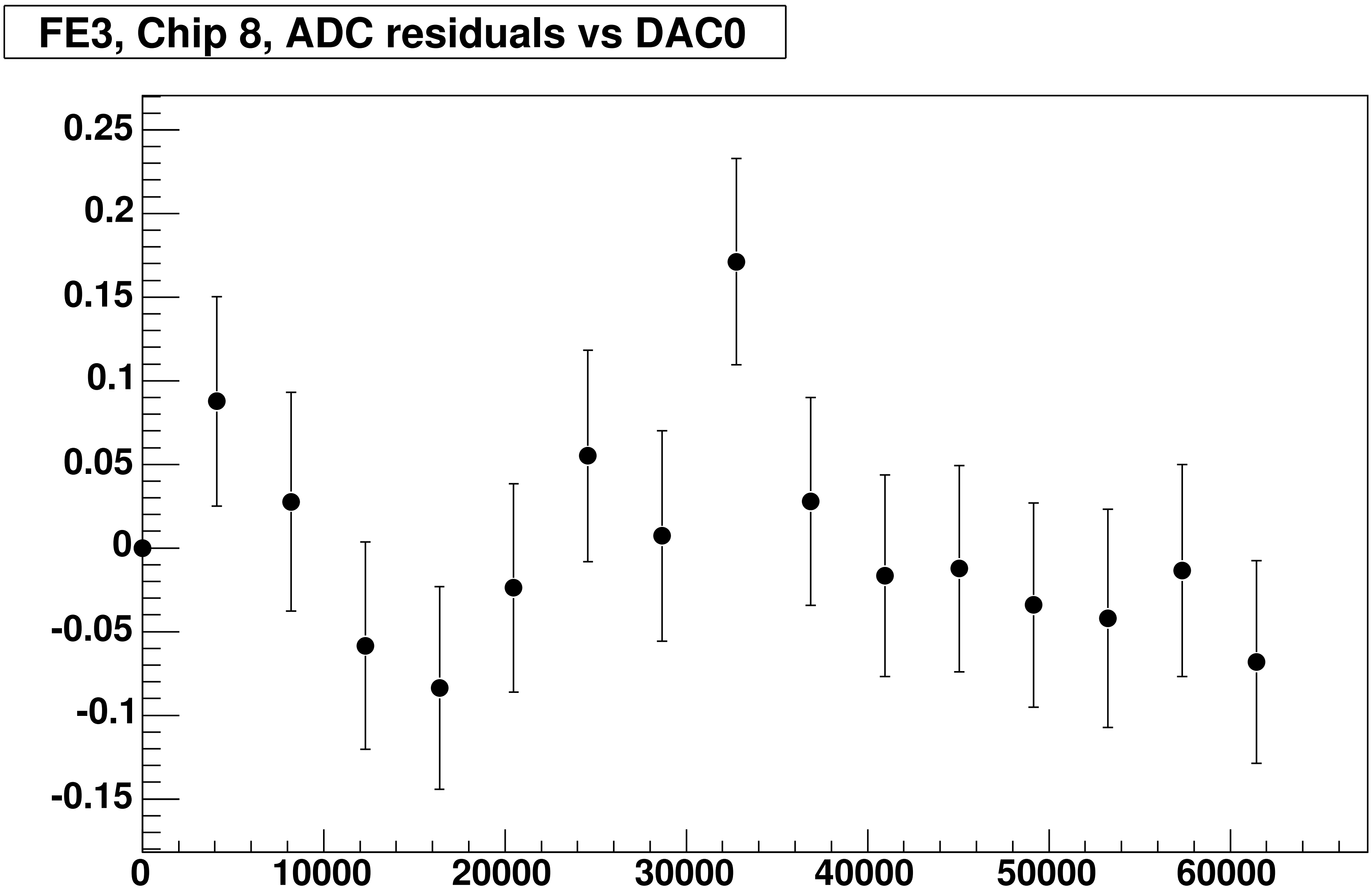

FE3, Chip 7, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

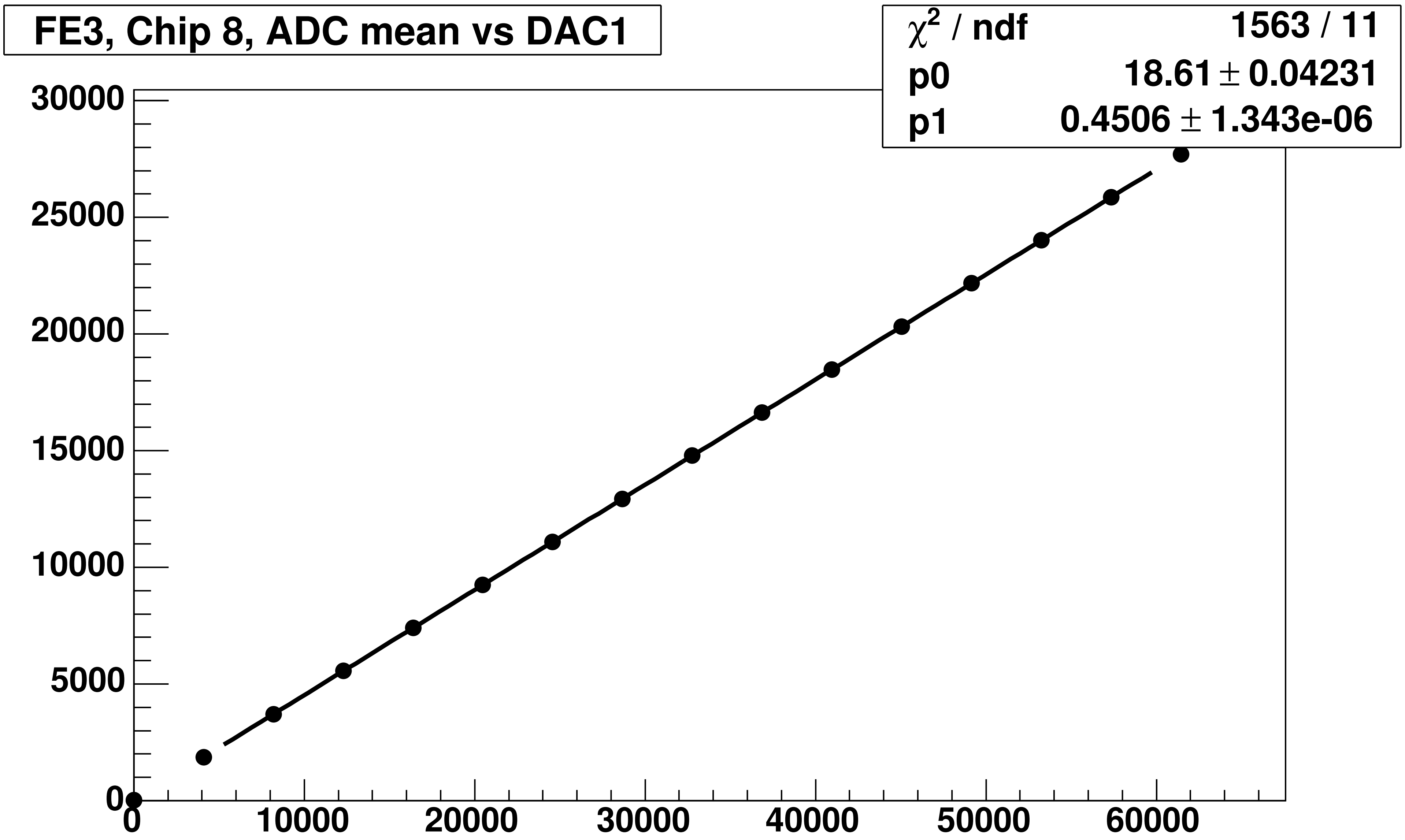

FE3, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000


FE3, Chip 8, ADC mean vs DAC0
χ^2 / ndf 12.69 / 11
p0 15.5 ± 0.04124
p1 2.366e-07 ± 1.142e-06
15.75
15.7
15.65
15.6
15.55
15.5
15.45
15.4
15.35
0
10000
20000
30000
40000
50000
60000

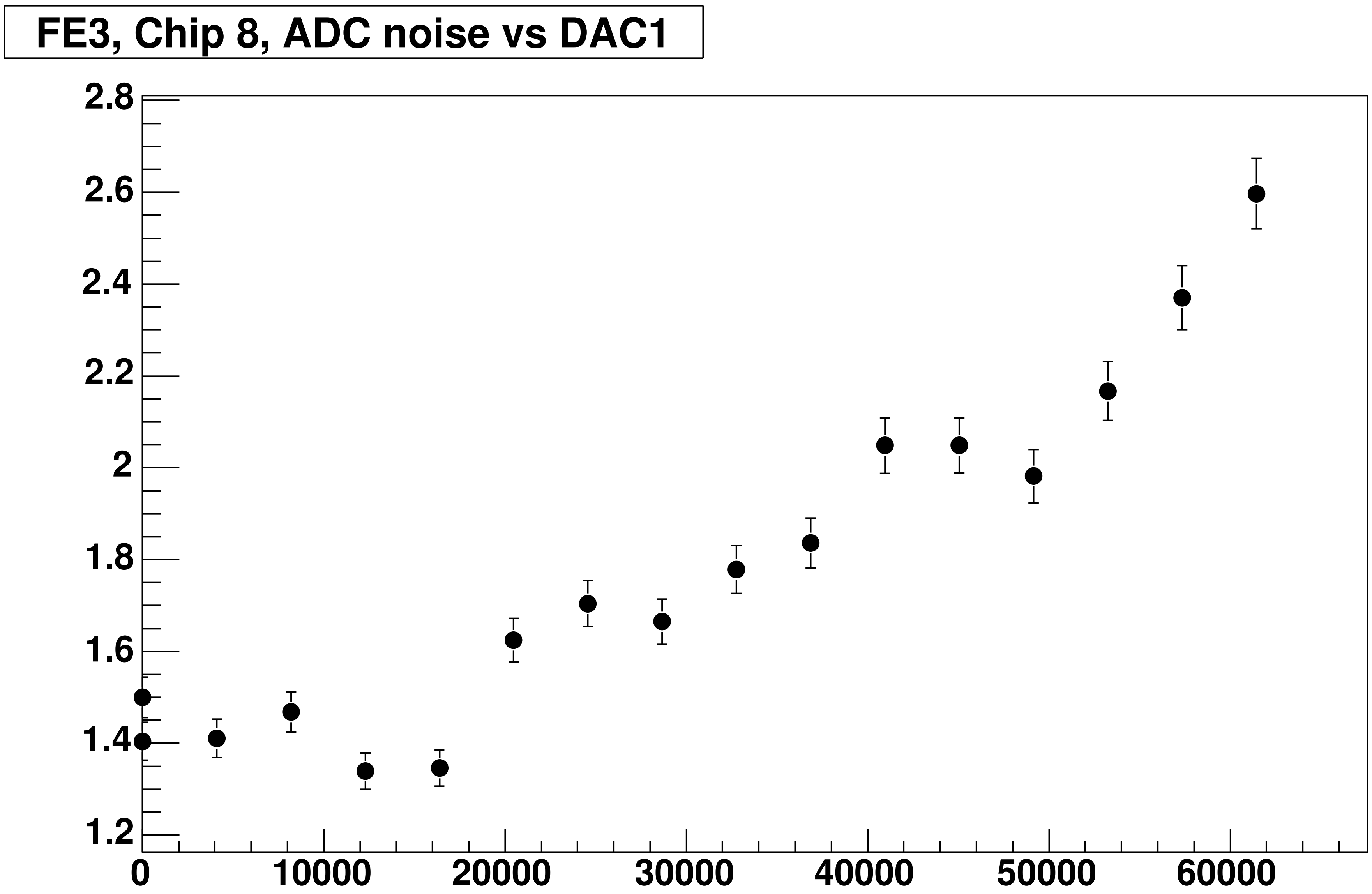


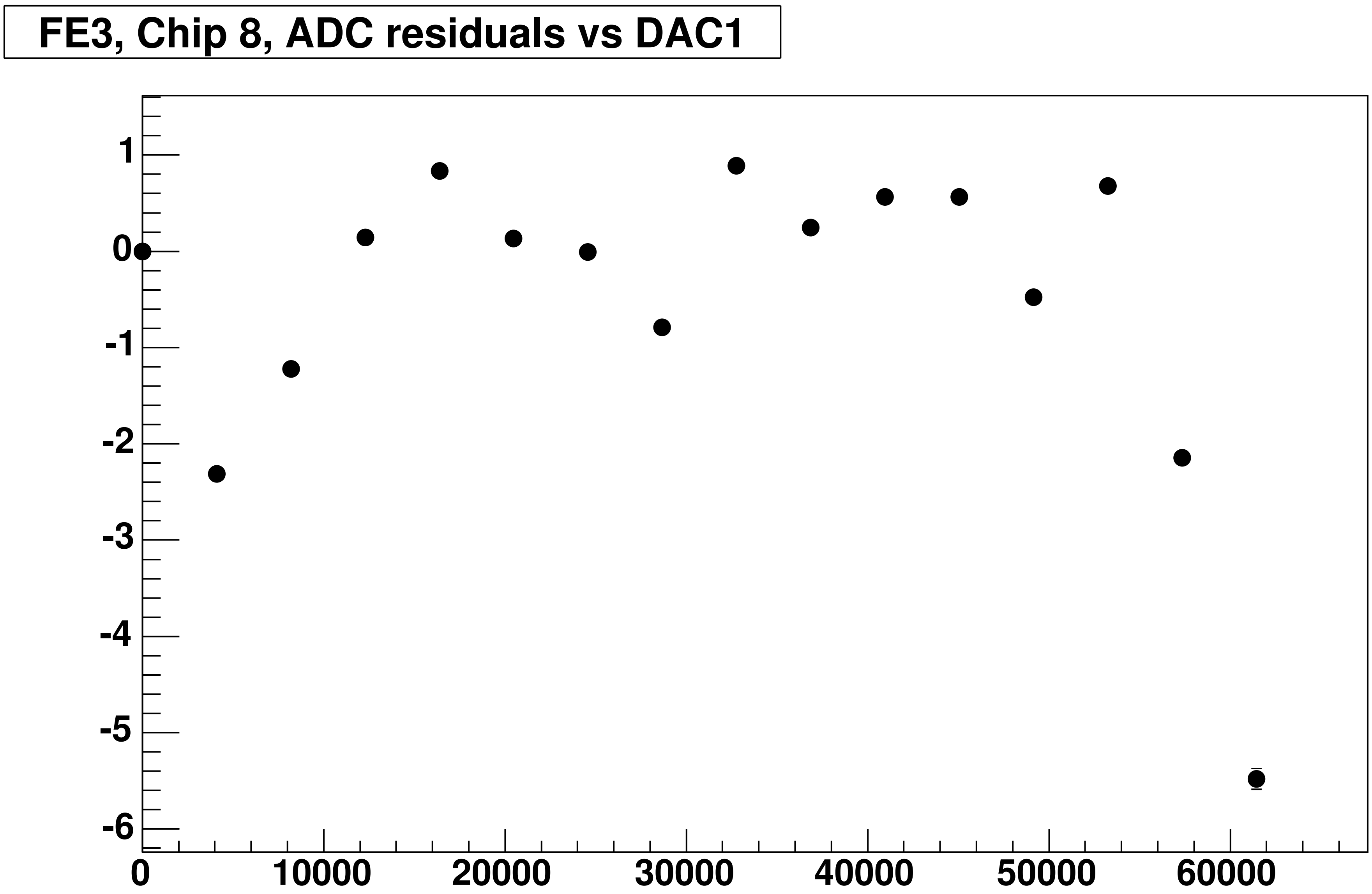
FE3, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

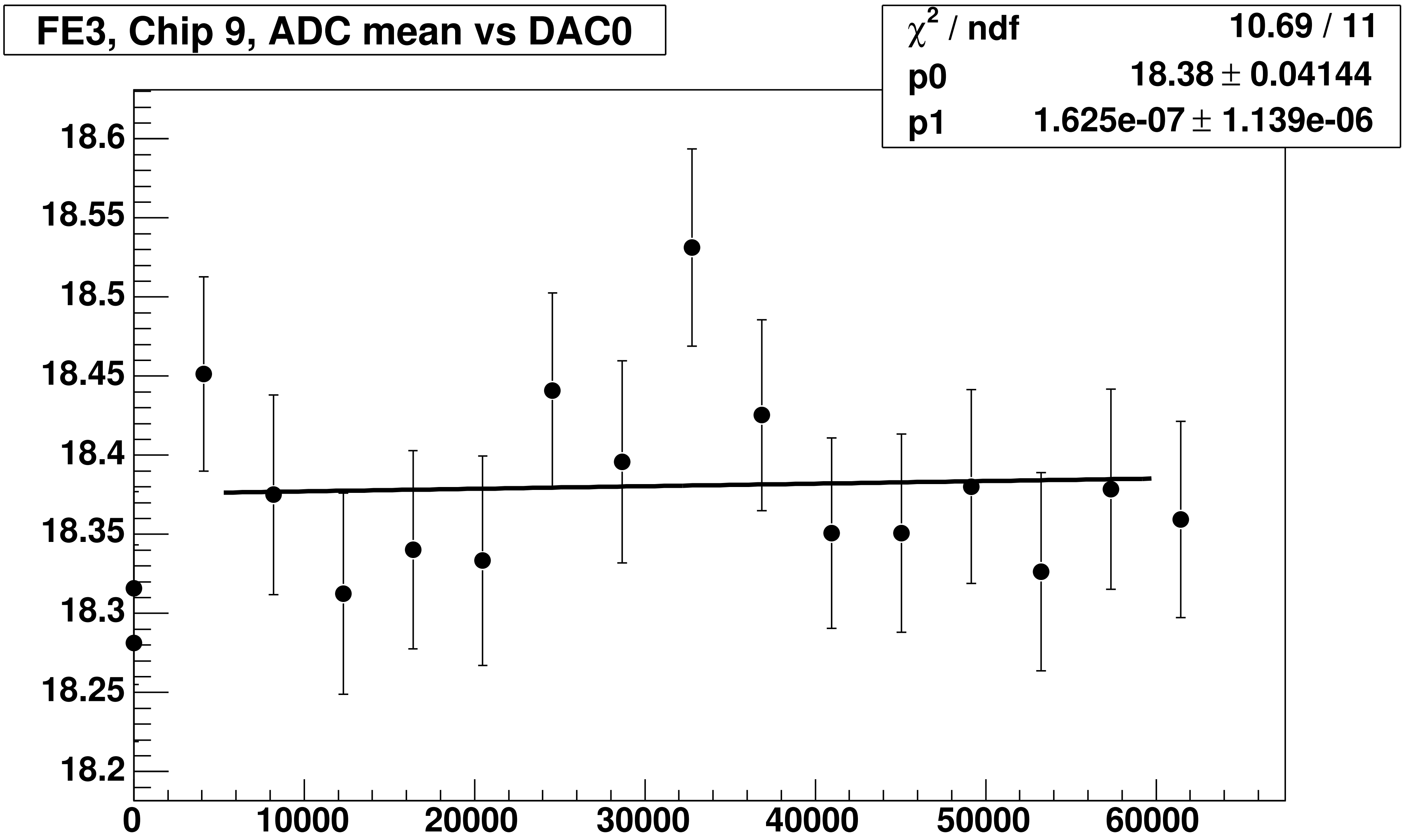

FE3, Chip 8, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



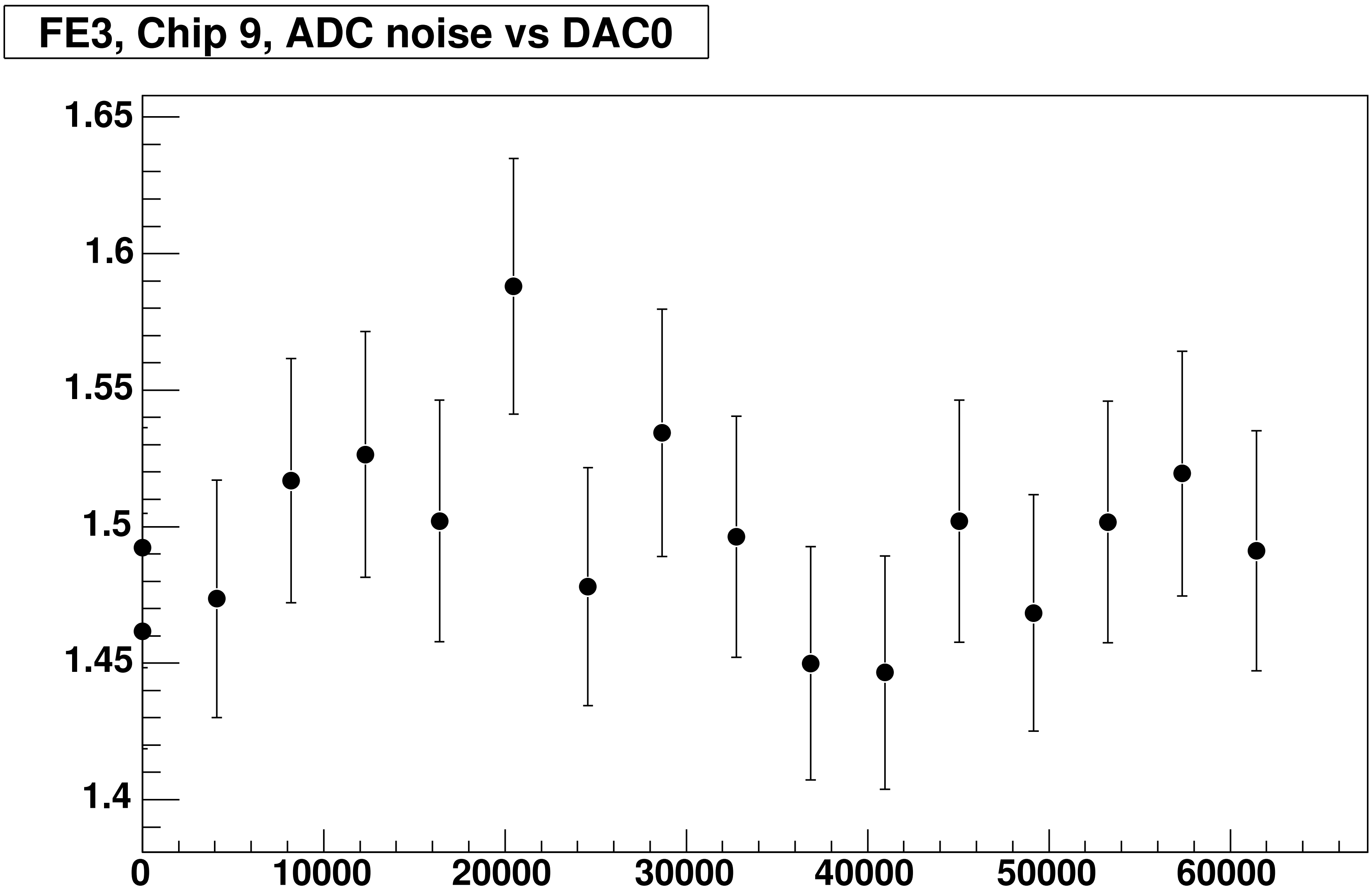
FE3, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1563 / 11
p0 18.61 ± 0.04231
p1 0.4506 ± 1.343e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

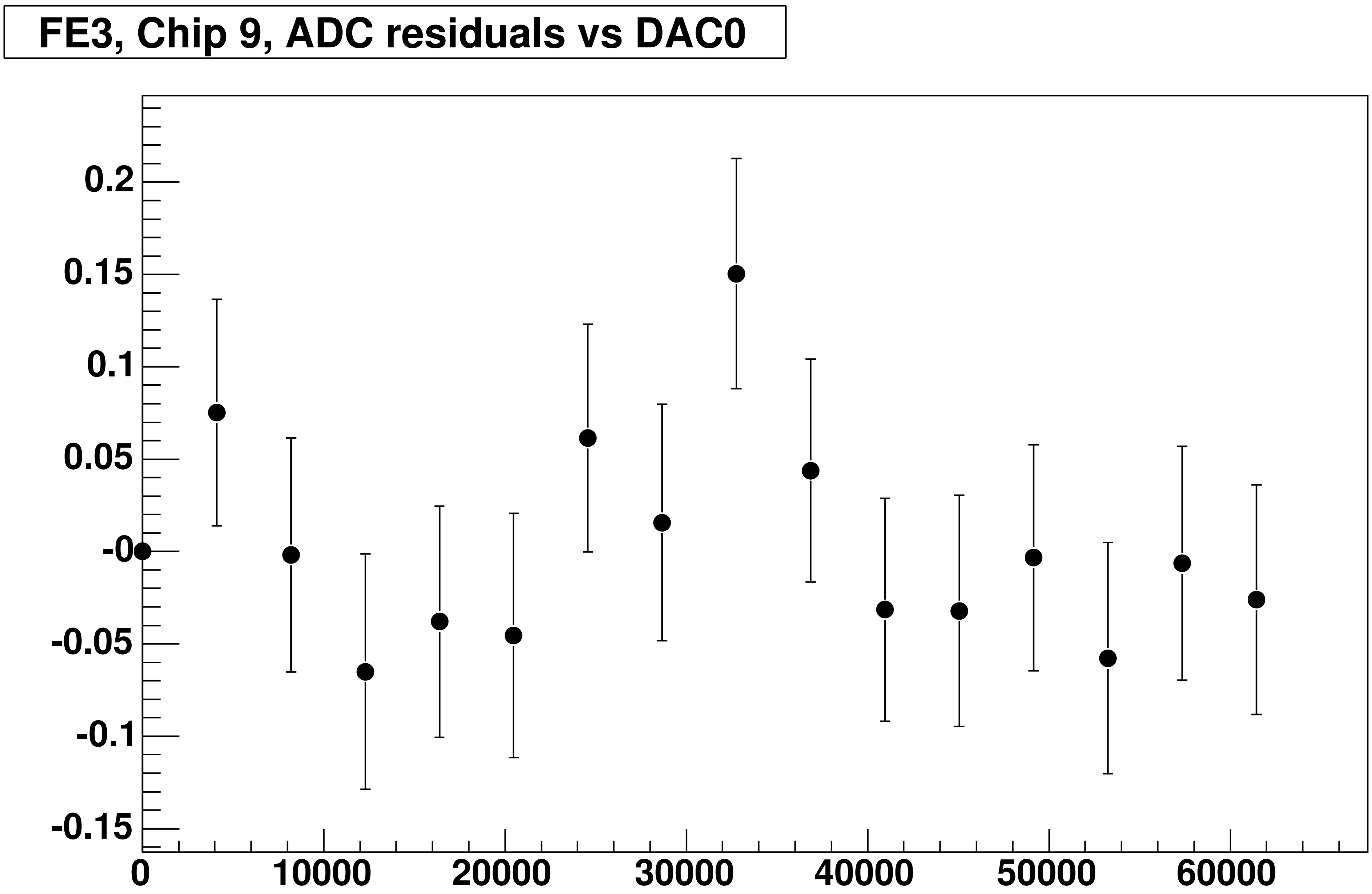

FE3, Chip 8, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

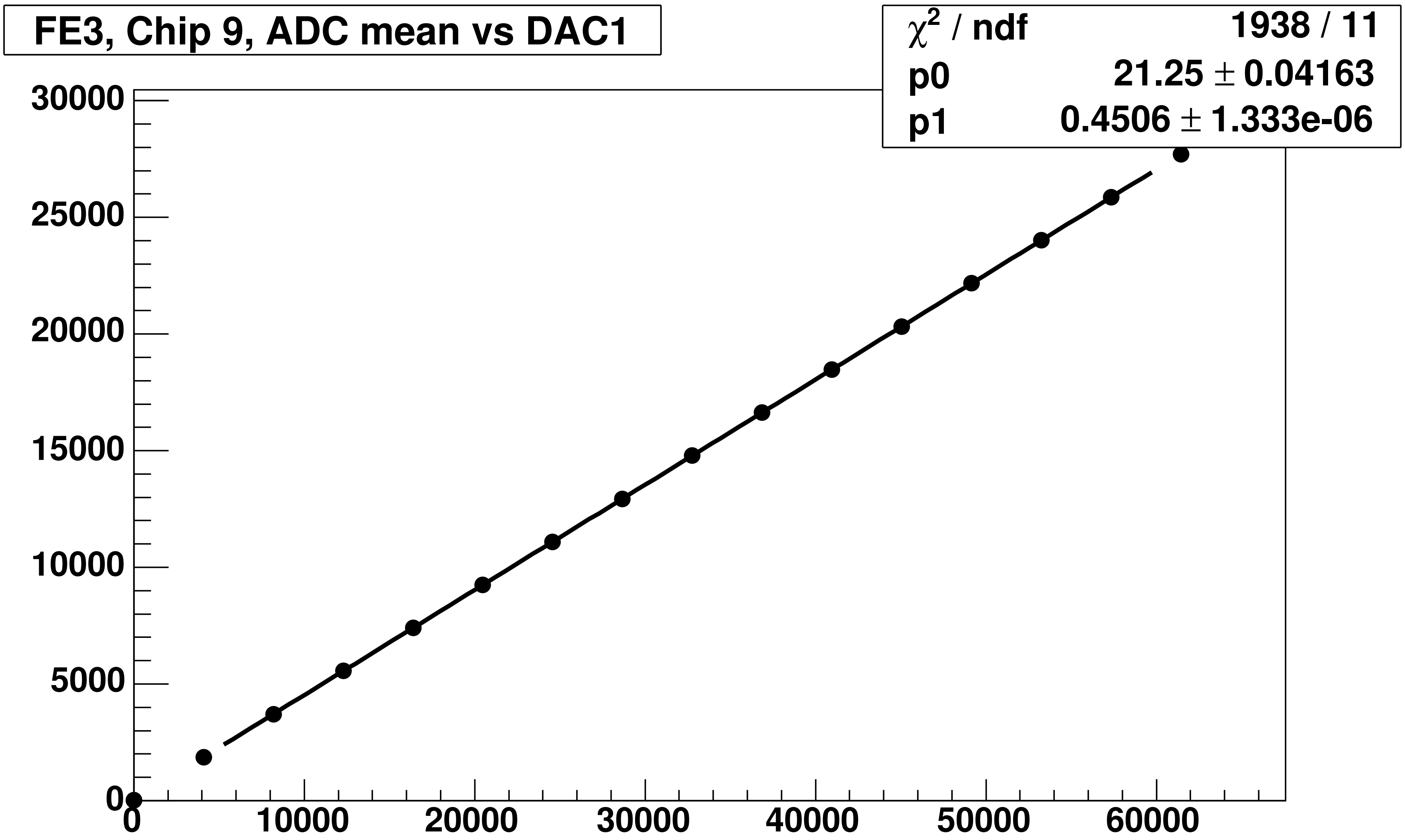

FE3, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



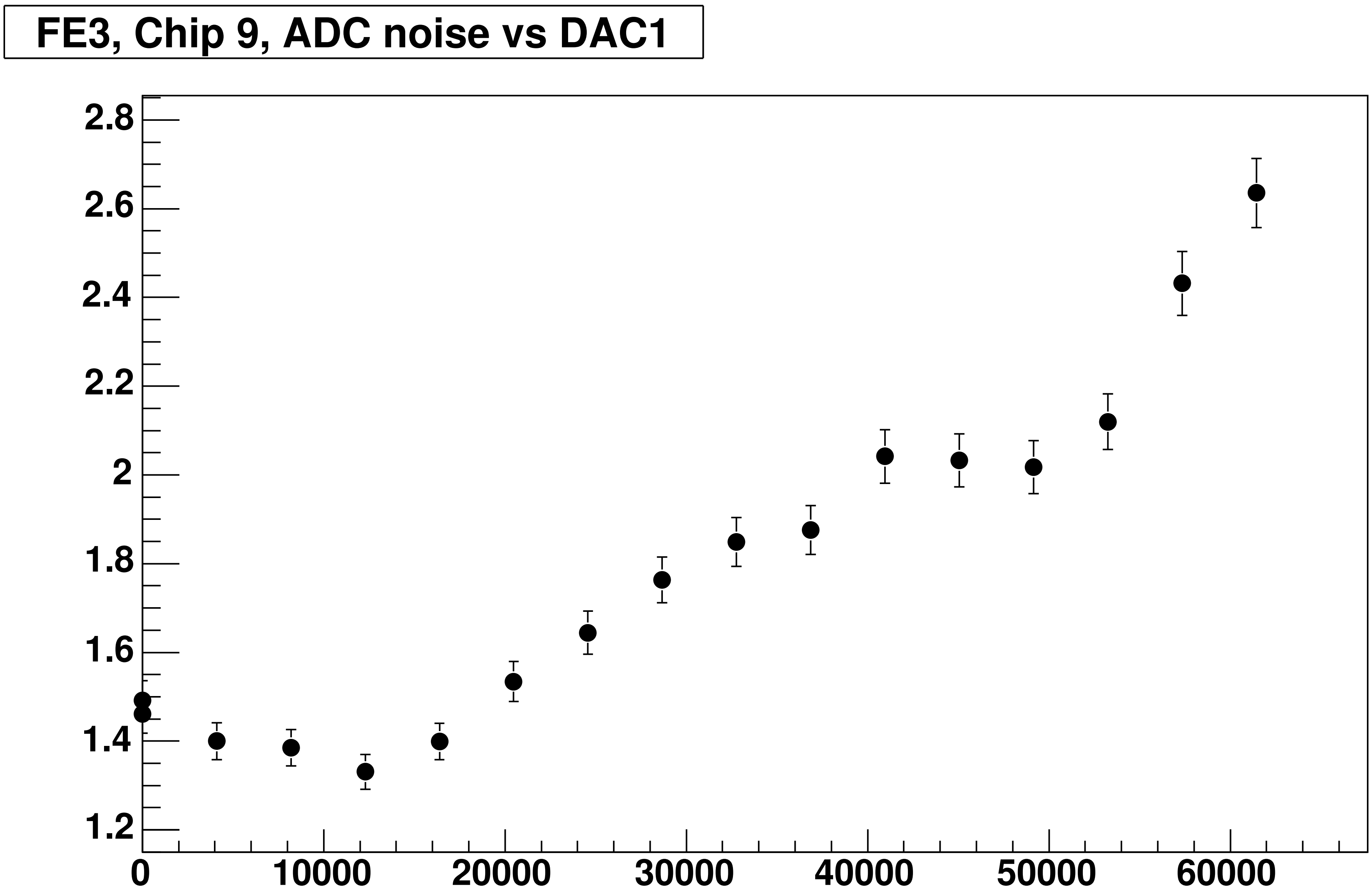
FE3, Chip 9, ADC mean vs DAC0
χ^2 / ndf 10.69 / 11
p0 18.38 ± 0.04144
p1 1.625e-07 ± 1.139e-06
18.2
18.25
18.3
18.35
18.4
18.45
18.5
18.55
18.6
0
10000
20000
30000
40000
50000
60000

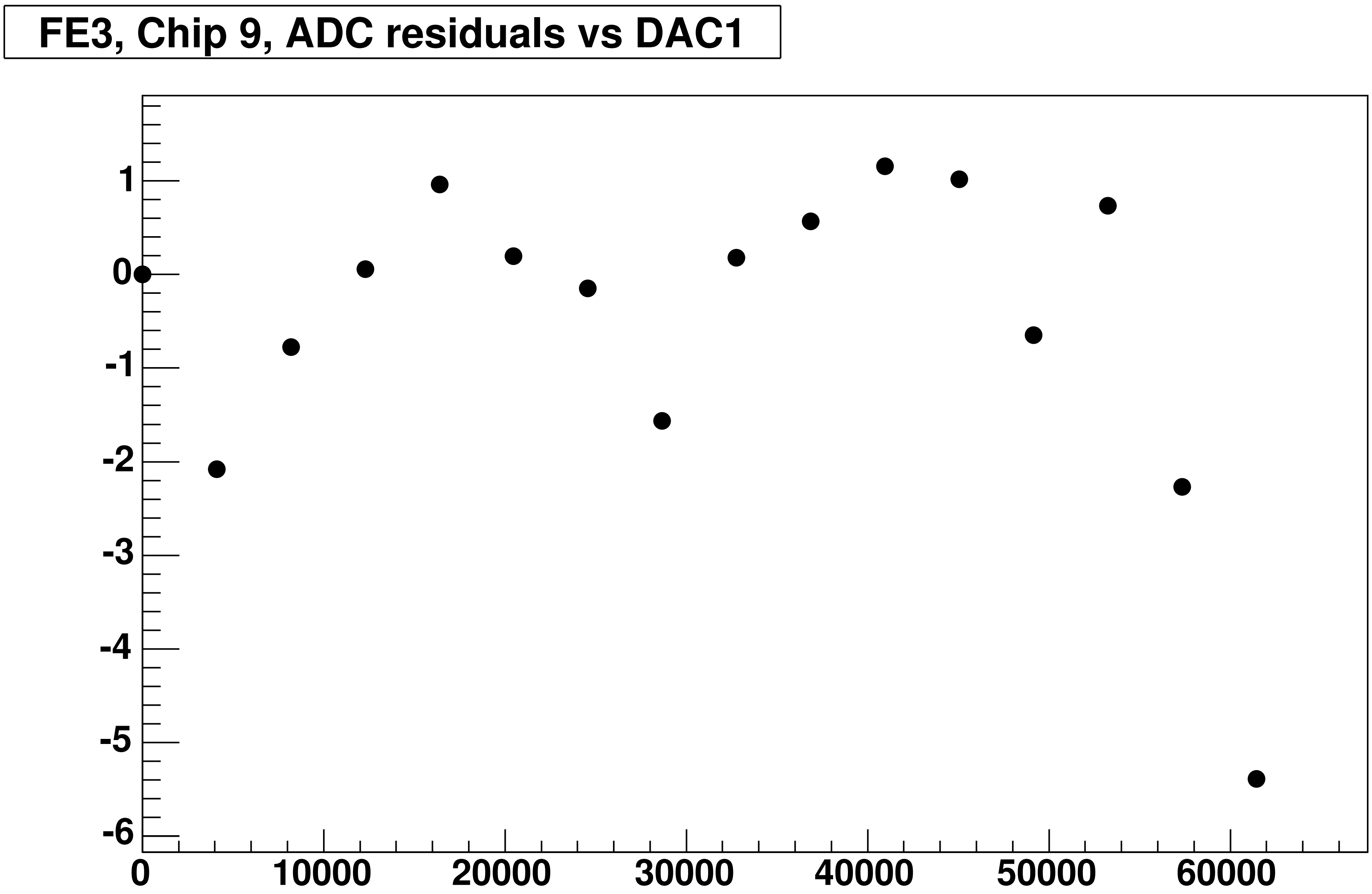

FE3, Chip 9, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

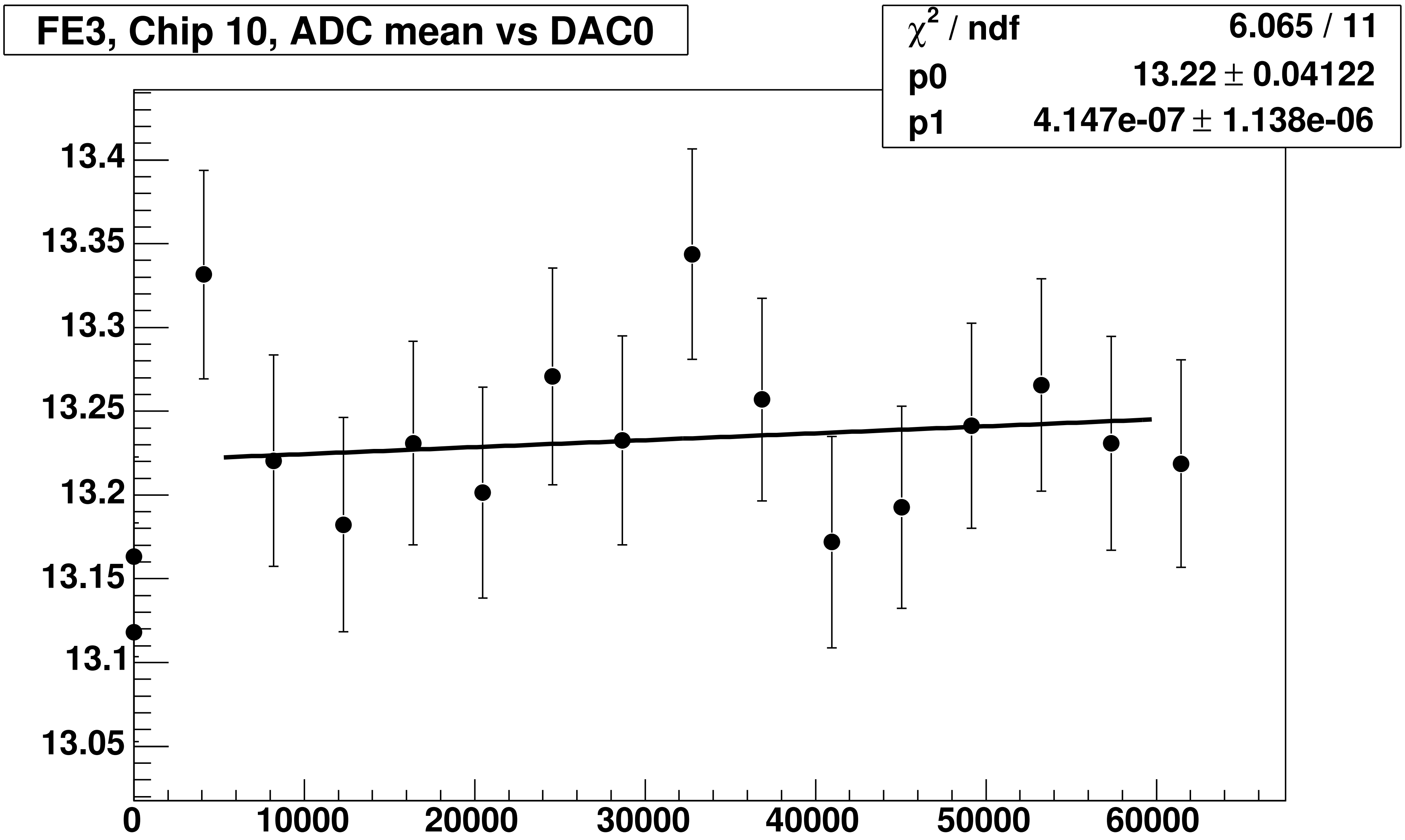

FE3, Chip 9, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



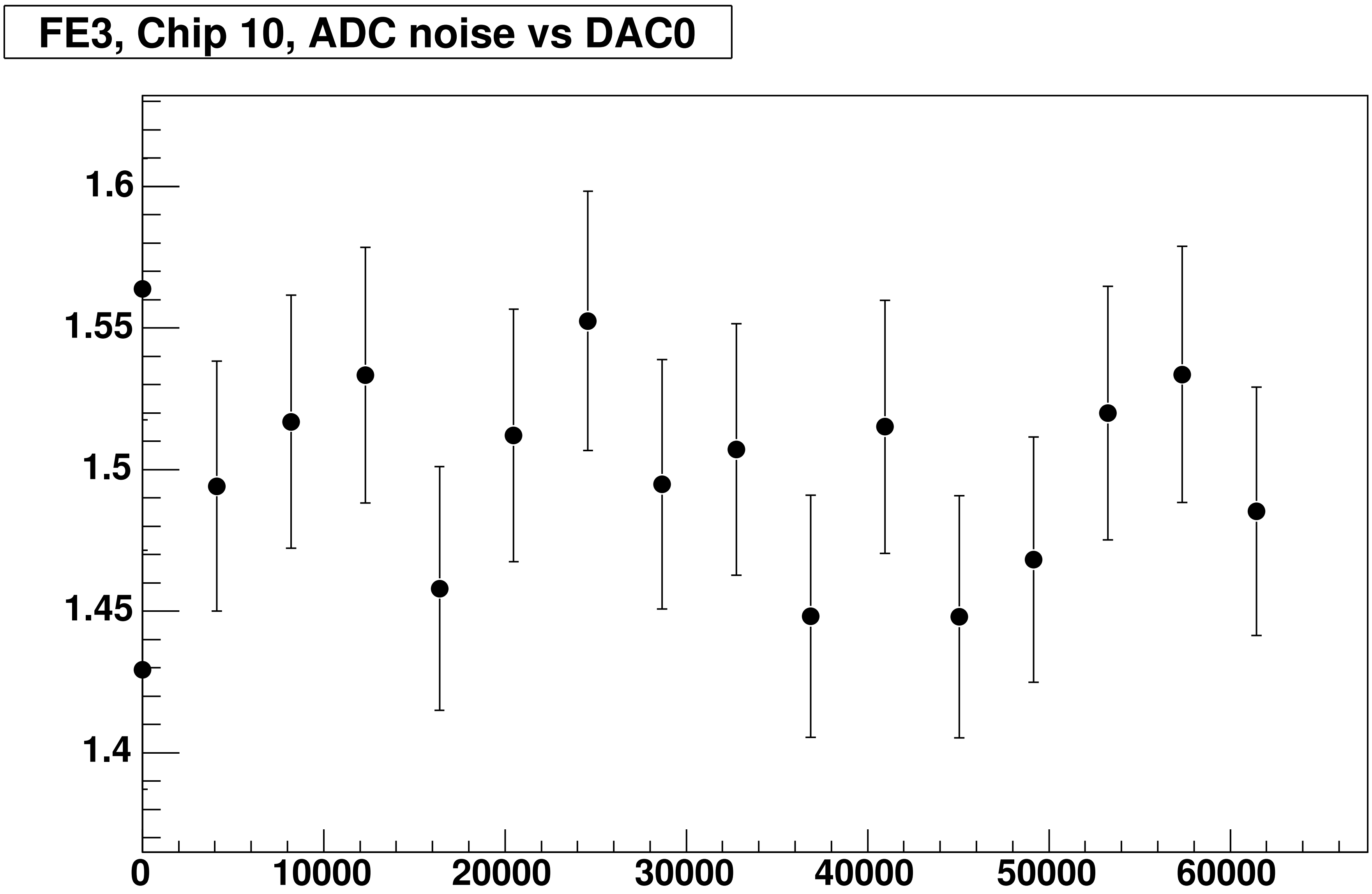
FE3, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1938 / 11
p0 21.25 ± 0.04163
p1 0.4506 ± 1.333e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

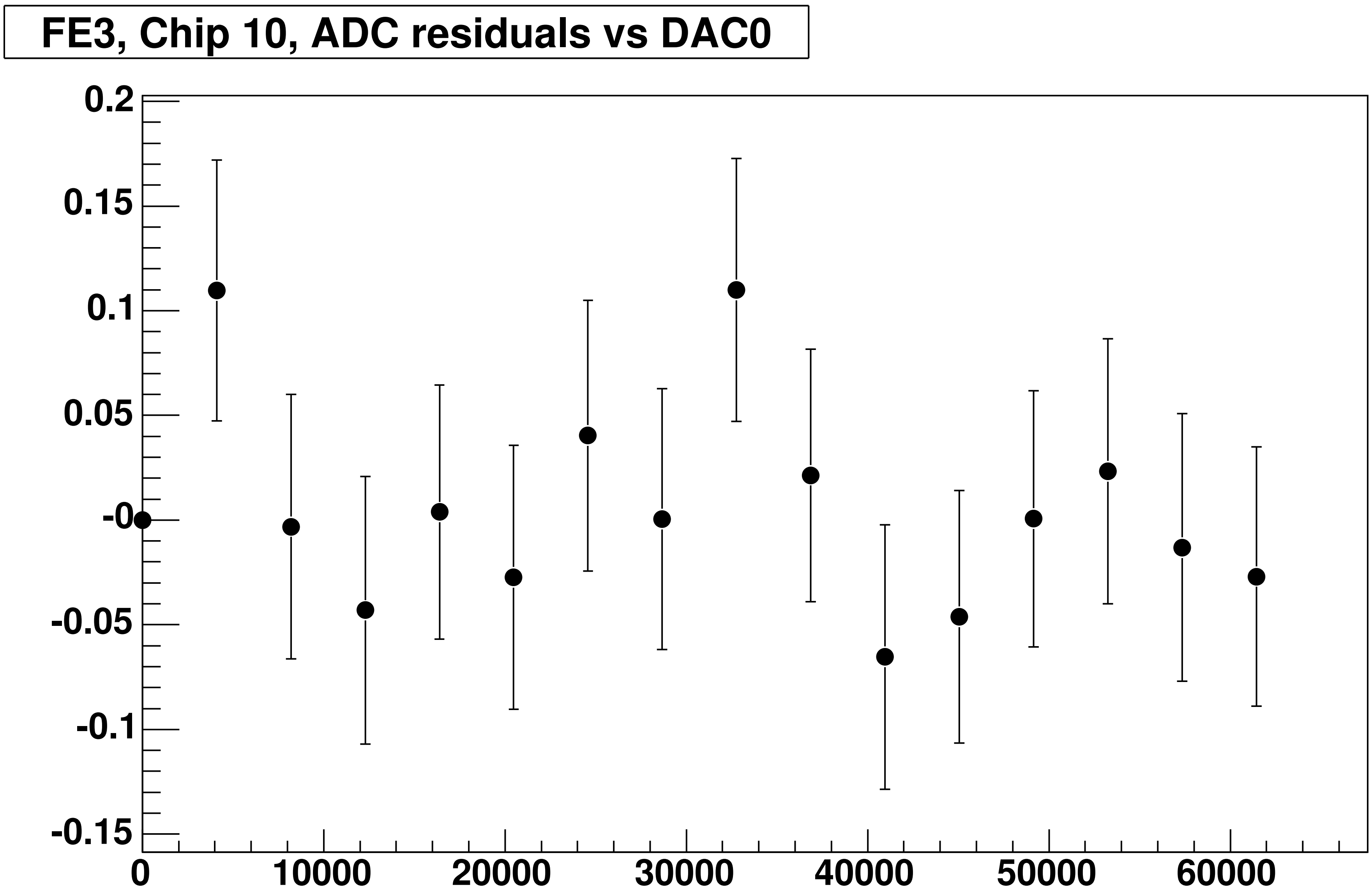

FE3, Chip 9, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

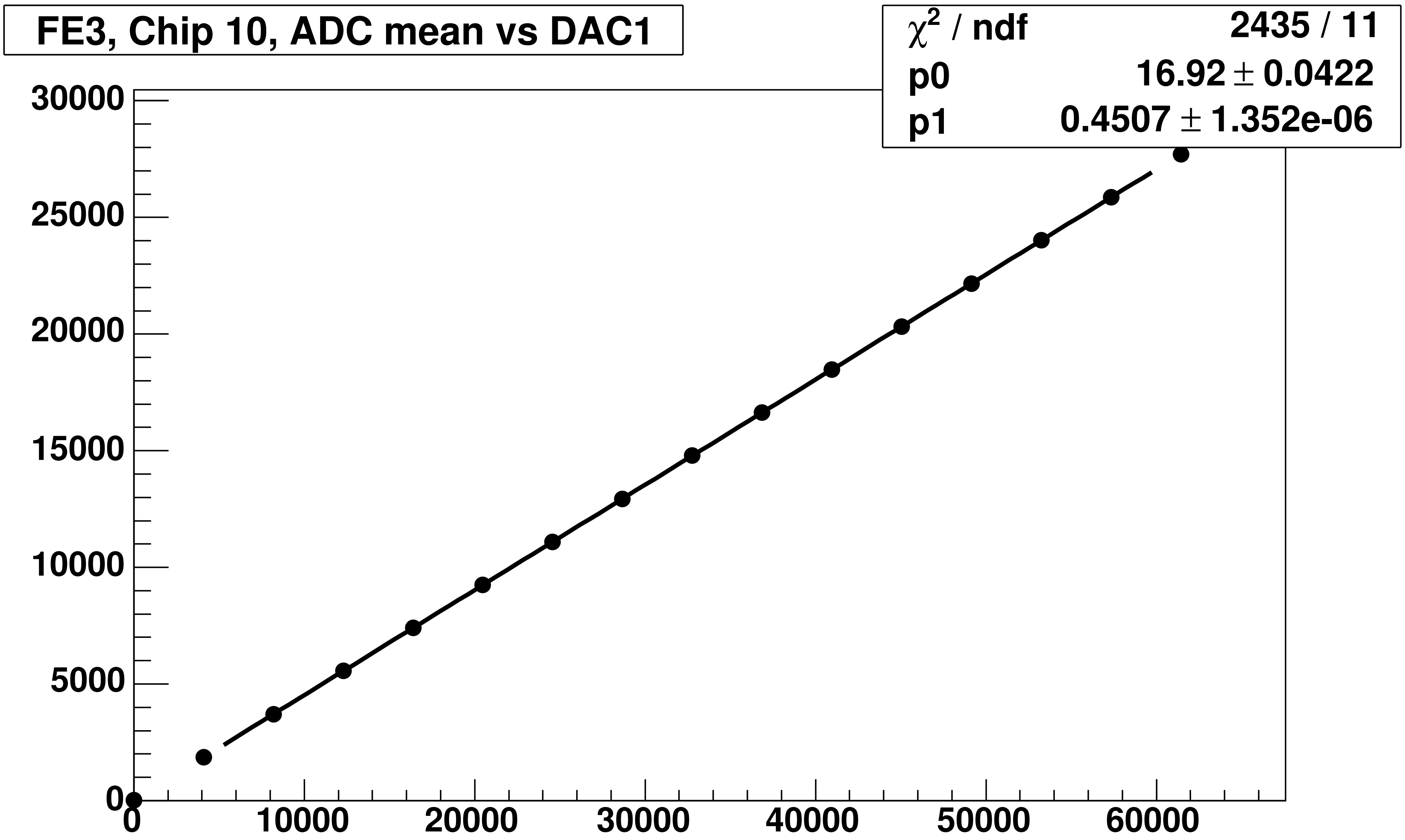

FE3, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



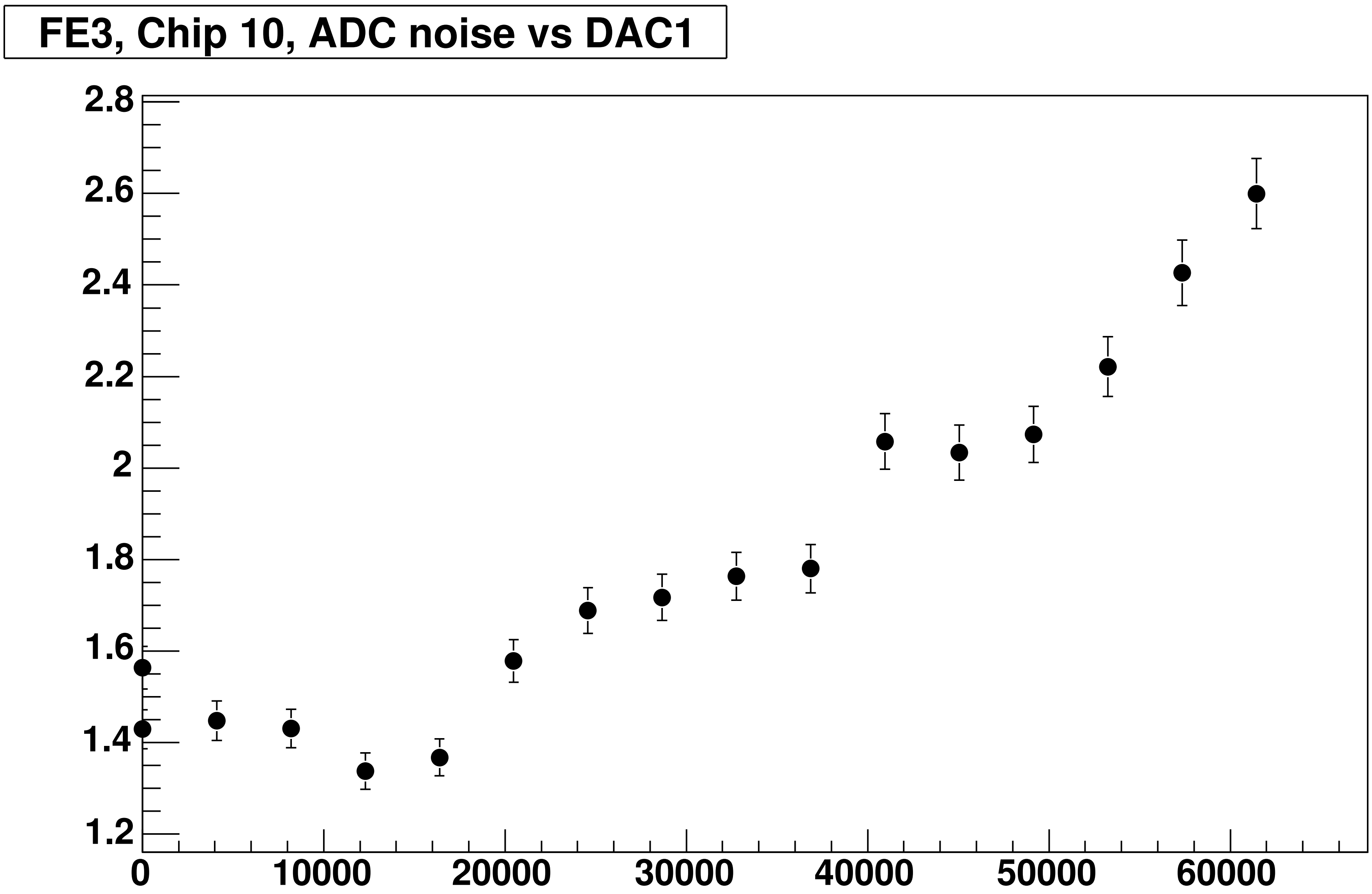
FE3, Chip 10, ADC mean vs DAC0
χ2 / ndf 6.065 / 11
p0 13.22 ± 0.04122
p1 4.147e-07 ± 1.138e-06
13.4
13.35
13.3
13.25
13.2
13.15
13.1
13.05
0
10000
20000
30000
40000
50000
60000

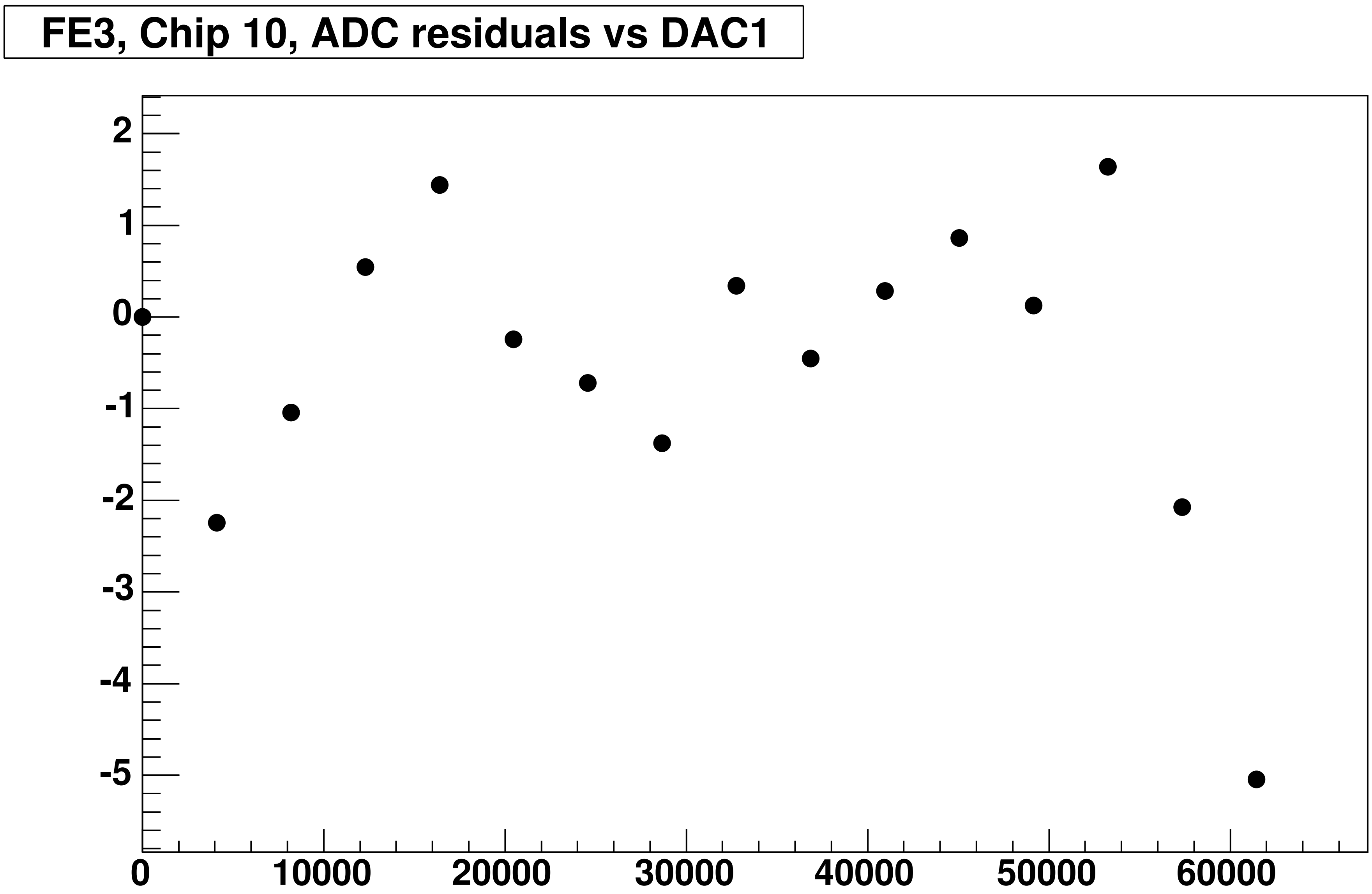

FE3, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

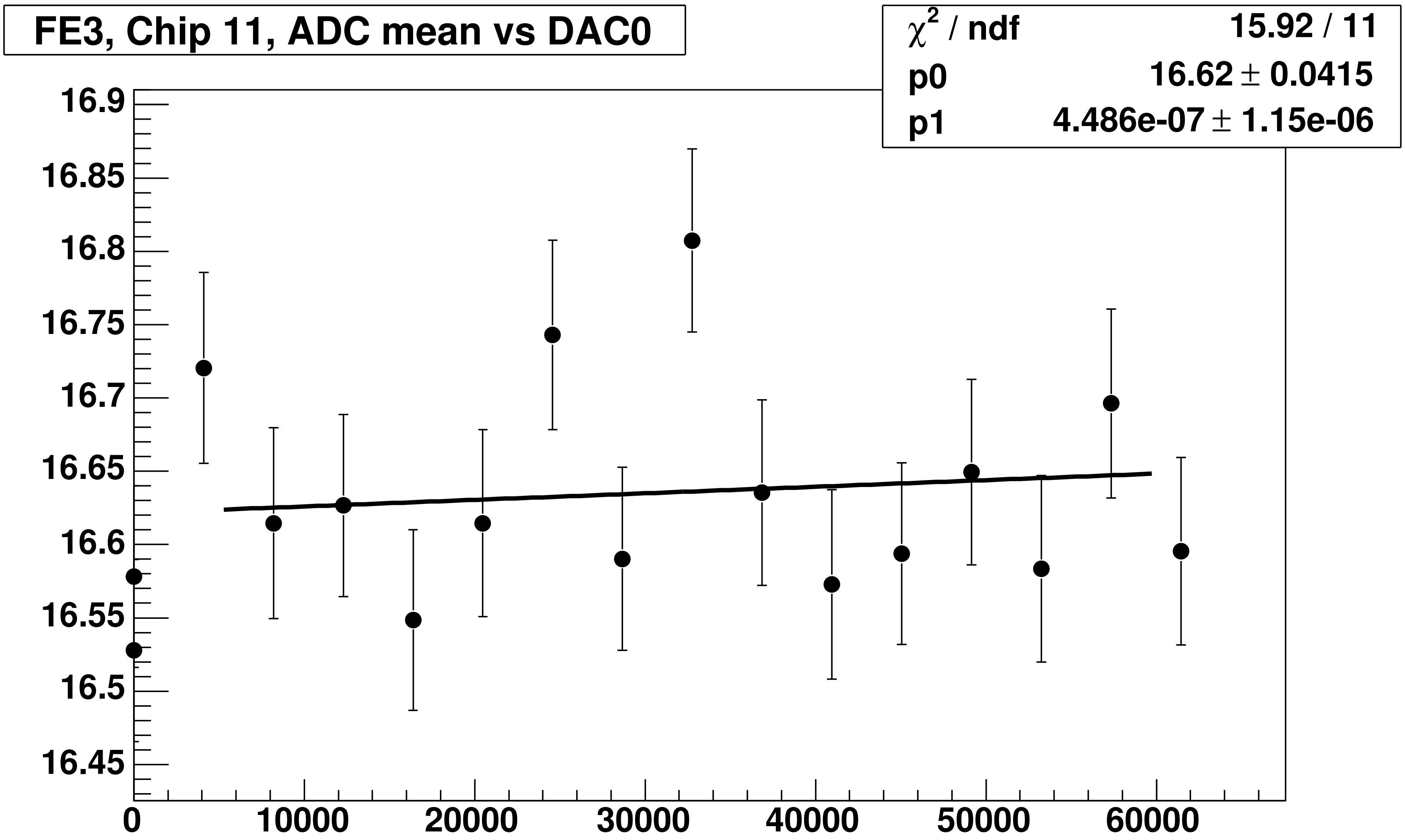

FE3, Chip 10, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

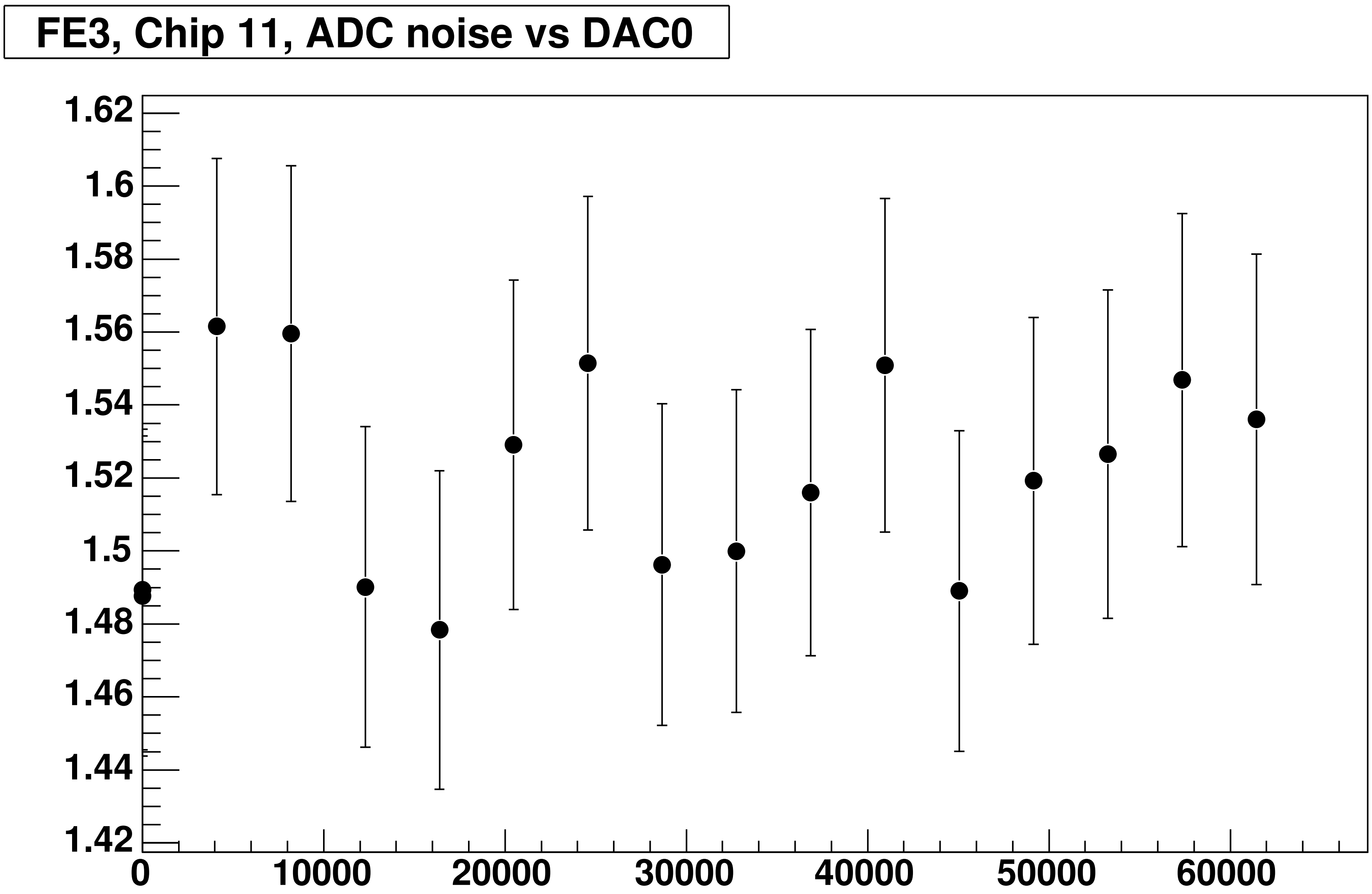


FE3, Chip 10, ADC mean vs DAC1
χ^2 / ndf 2435 / 11
p0 16.92 ± 0.0422
p1 0.4507 ± 1.352e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

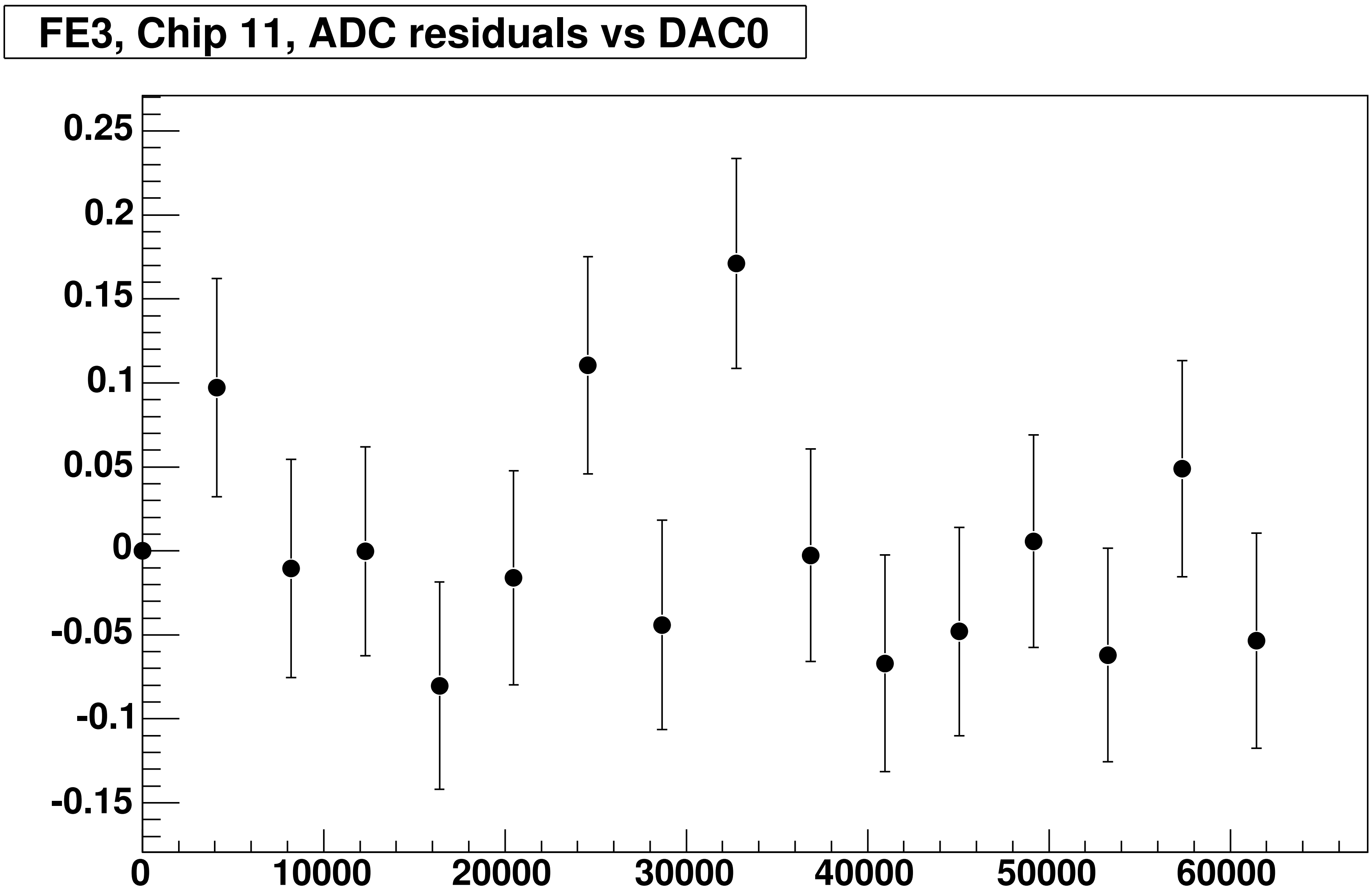

FE3, Chip 10, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

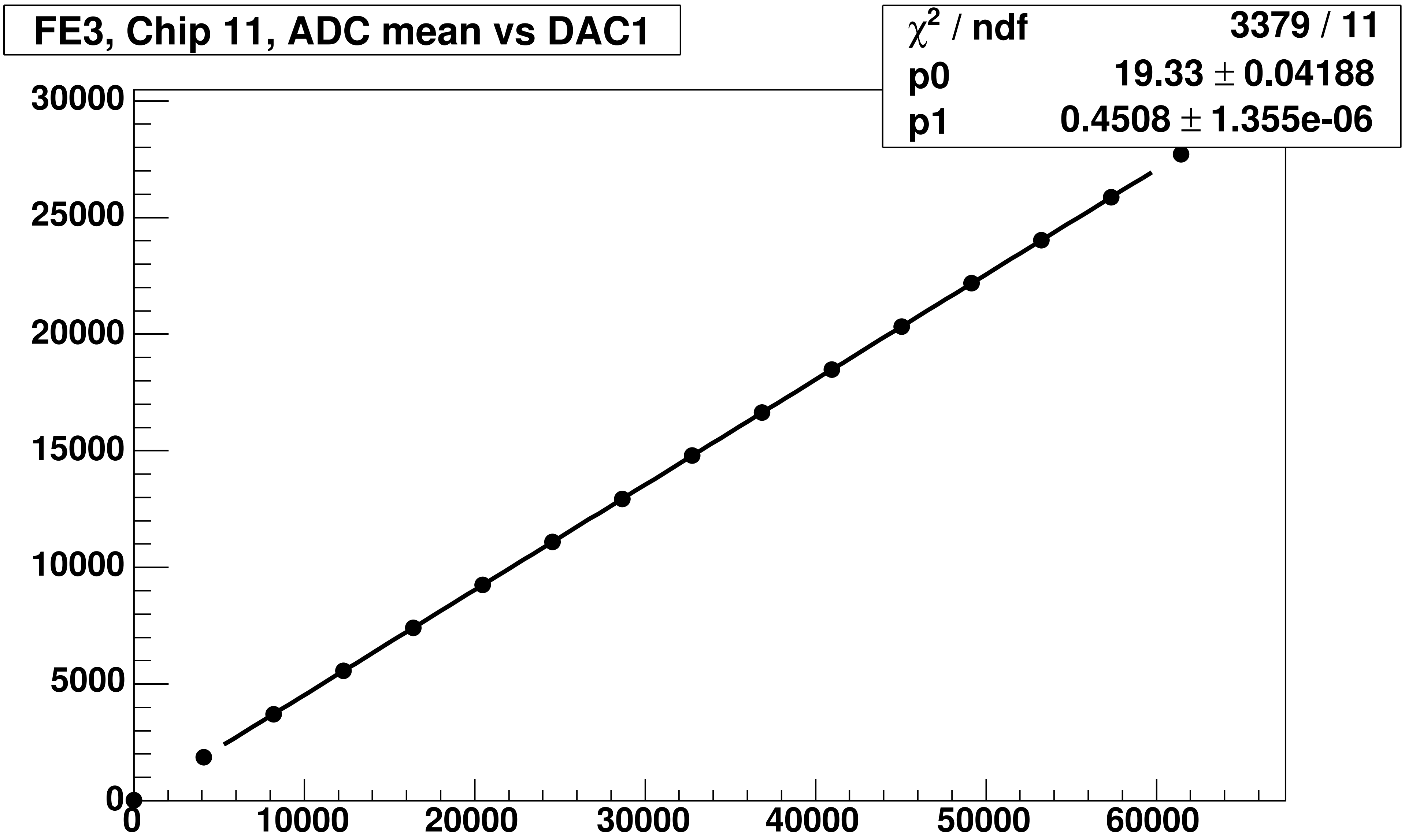

FE3, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

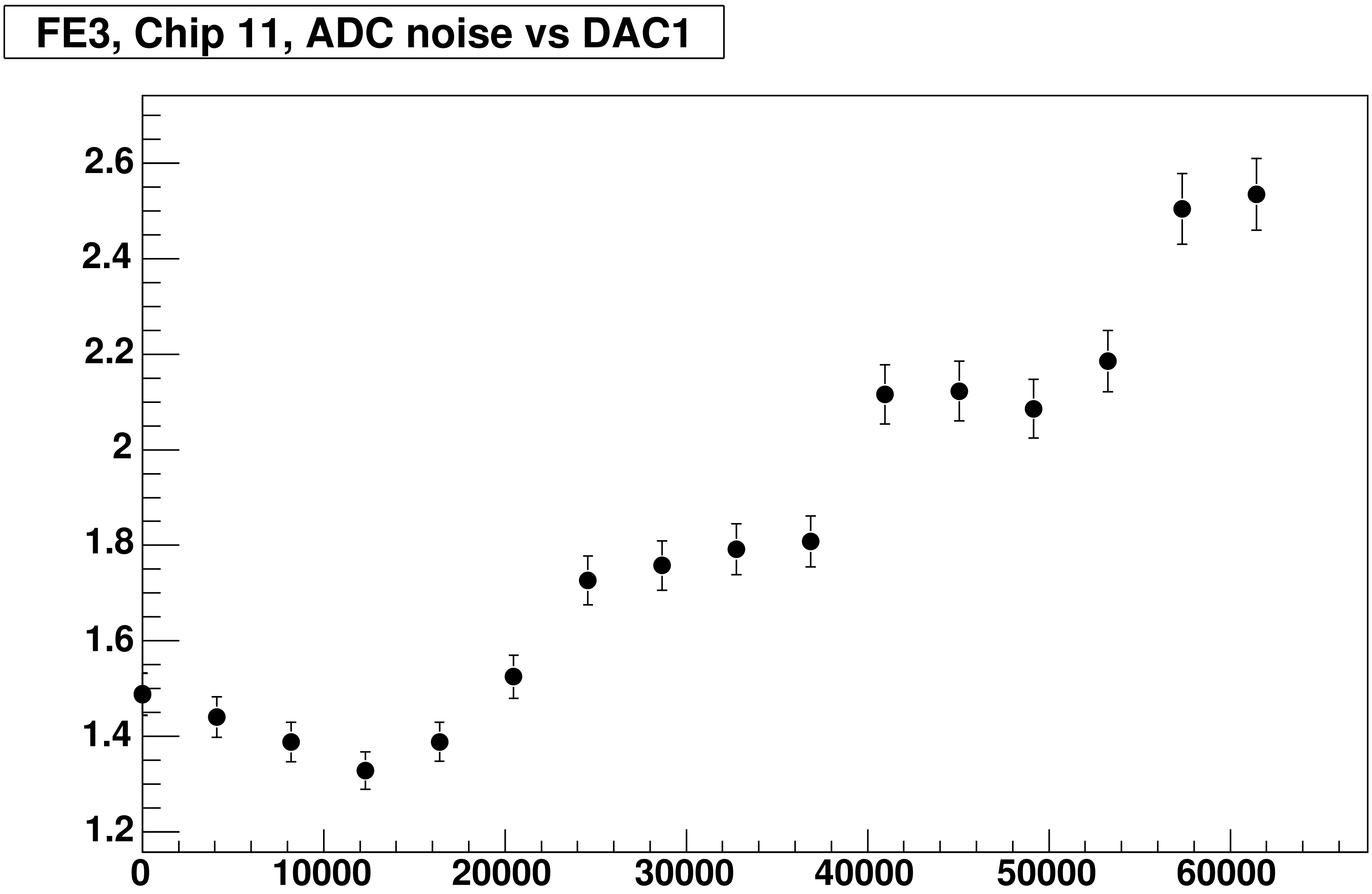

FE3, Chip 11, ADC mean vs DAC0
χ^2 / ndf 15.92 / 11
p0 16.62 ± 0.0415
p1 4.486e-07 ± 1.15e-06
16.9
16.85
16.8
16.75
16.7
16.65
16.6
16.55
16.5
16.45
0
10000
20000
30000
40000
50000
60000



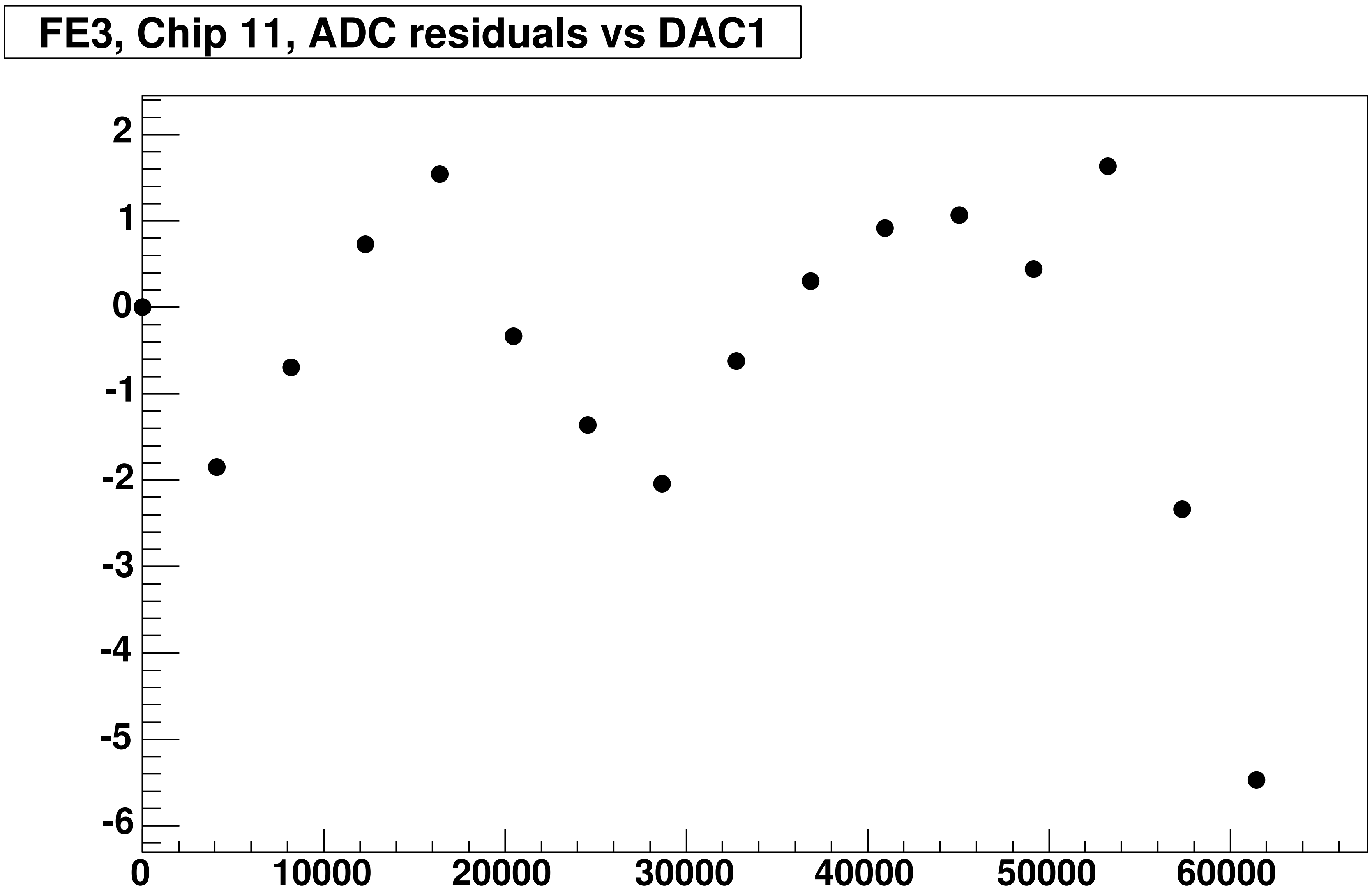
FE3, Chip 11, ADC noise vs DAC0
1.62
1.6
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
0
10000
20000
30000
40000
50000
60000

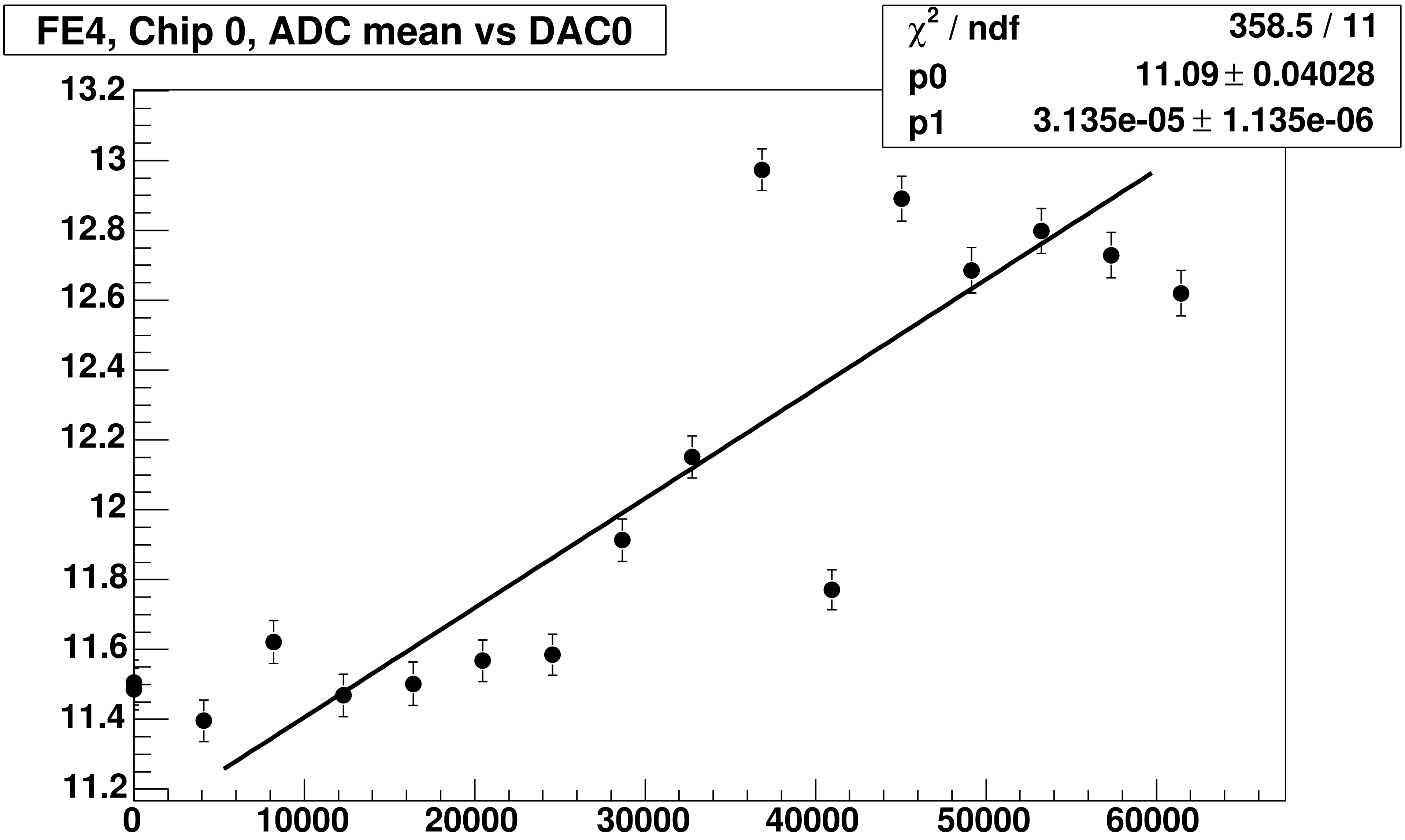

FE3, Chip 11, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000


FE3, Chip 11, ADC mean vs DAC1
χ^2 / ndf 3379 / 11
p0 19.33 ± 0.04188
p1 0.4508 ± 1.355e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

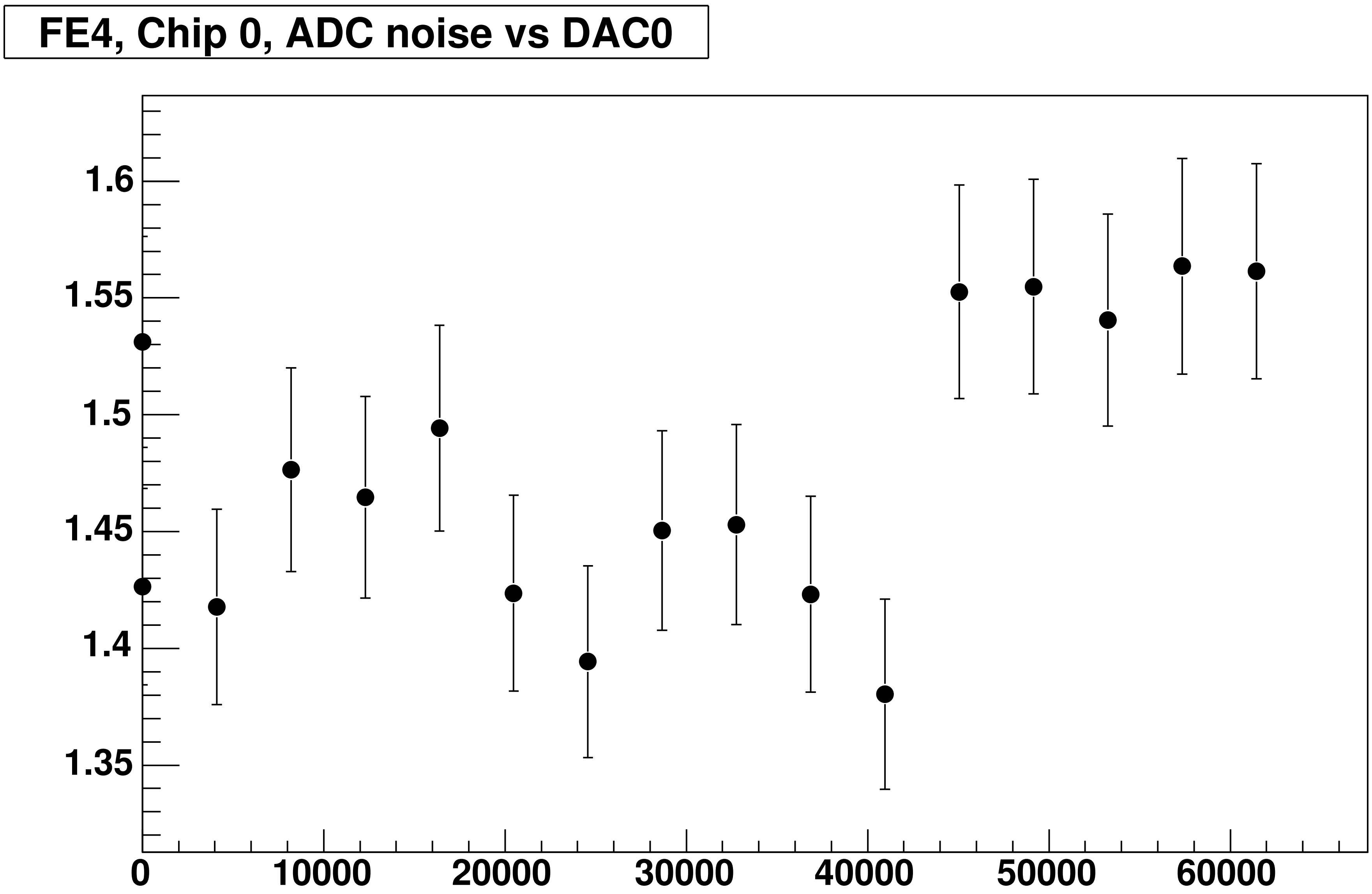


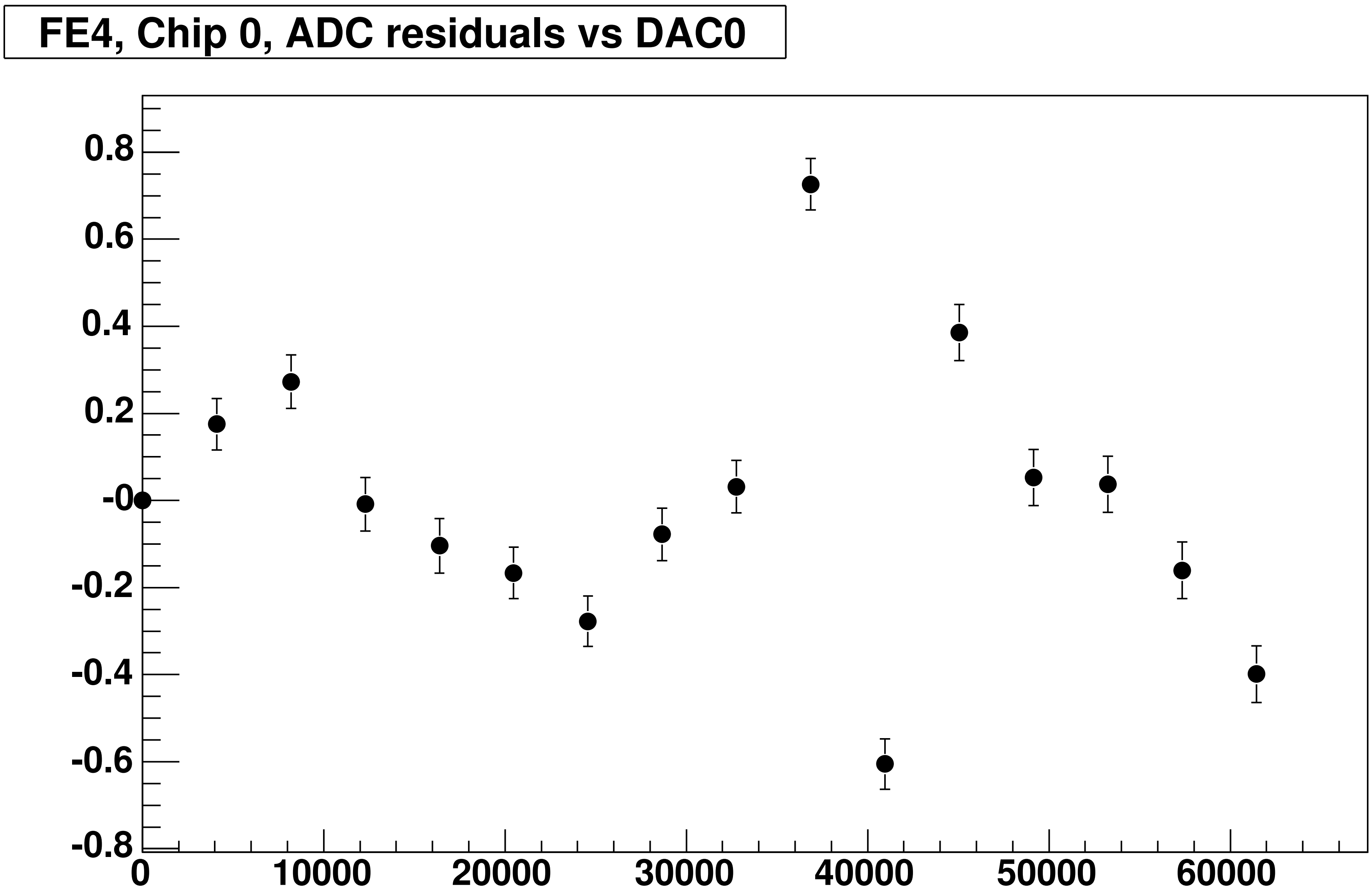
FE3, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

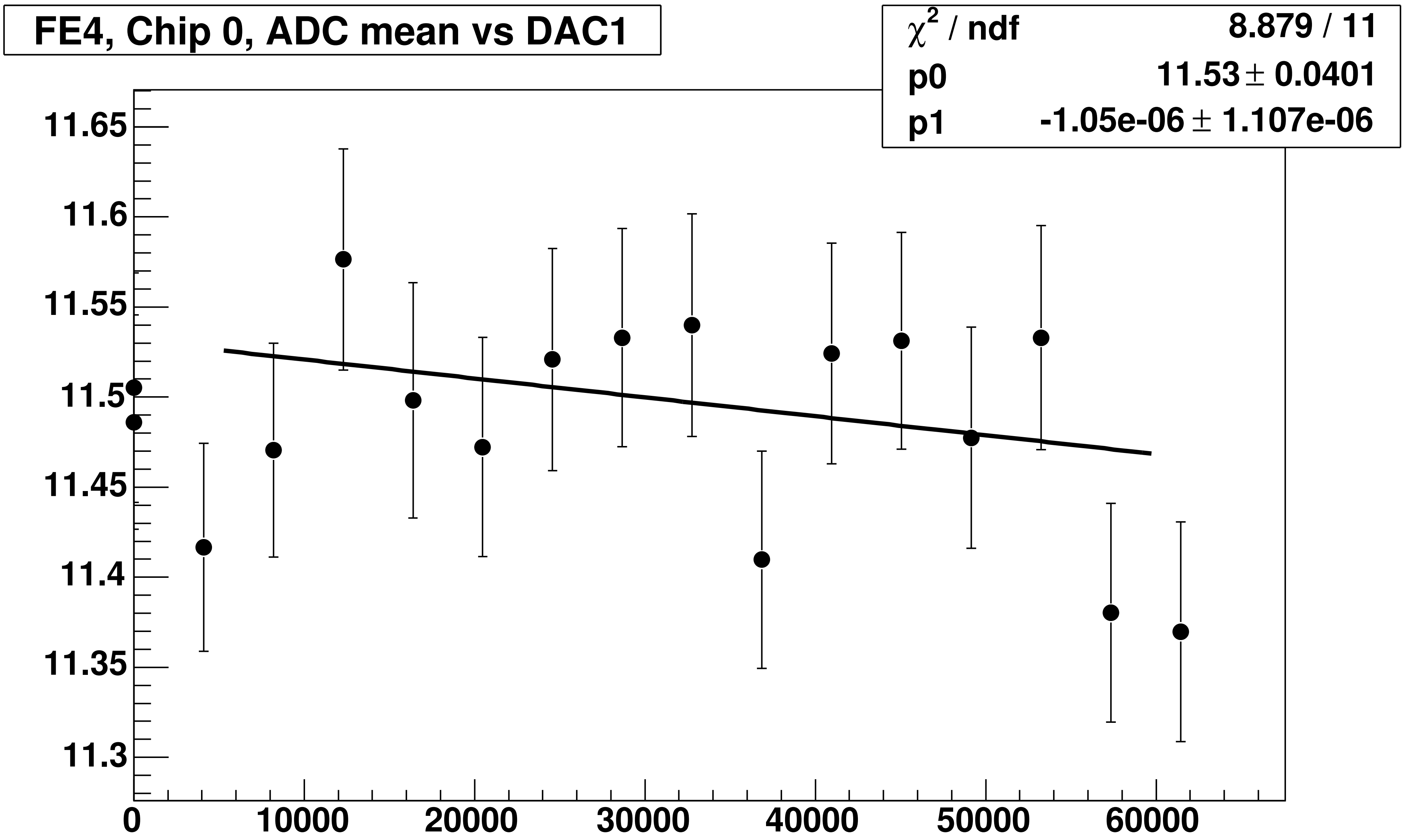

FE3, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

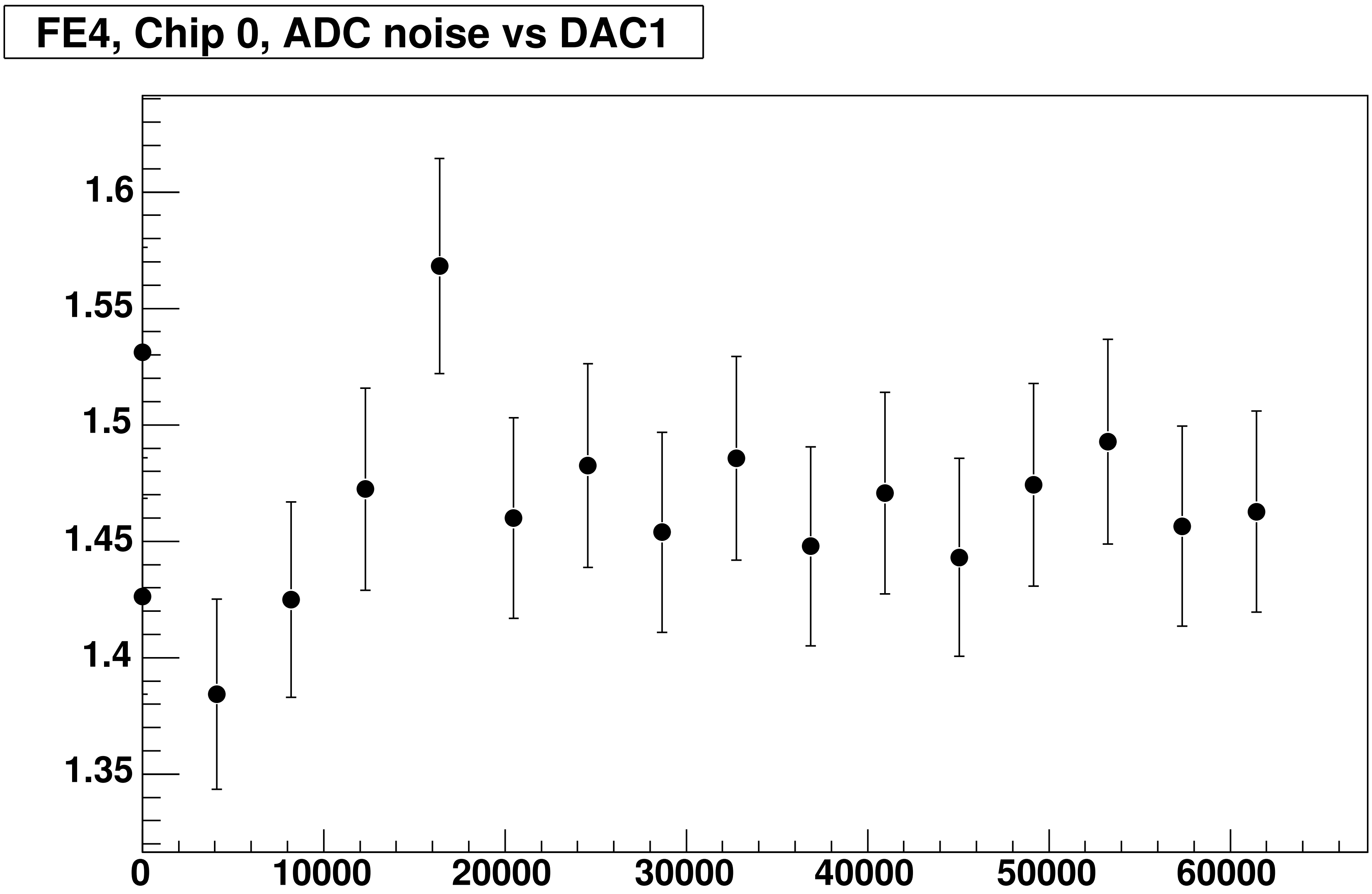


FE4, Chip 0, ADC mean vs DAC0
χ^2 / ndf 358.5 / 11
p0 11.09 ± 0.04028
p1 3.135e-05 ± 1.135e-06
13.2
13
12.8
12.6
12.4
12.2
12
11.8
11.6
11.4
11.2
0
10000
20000
30000
40000
50000
60000

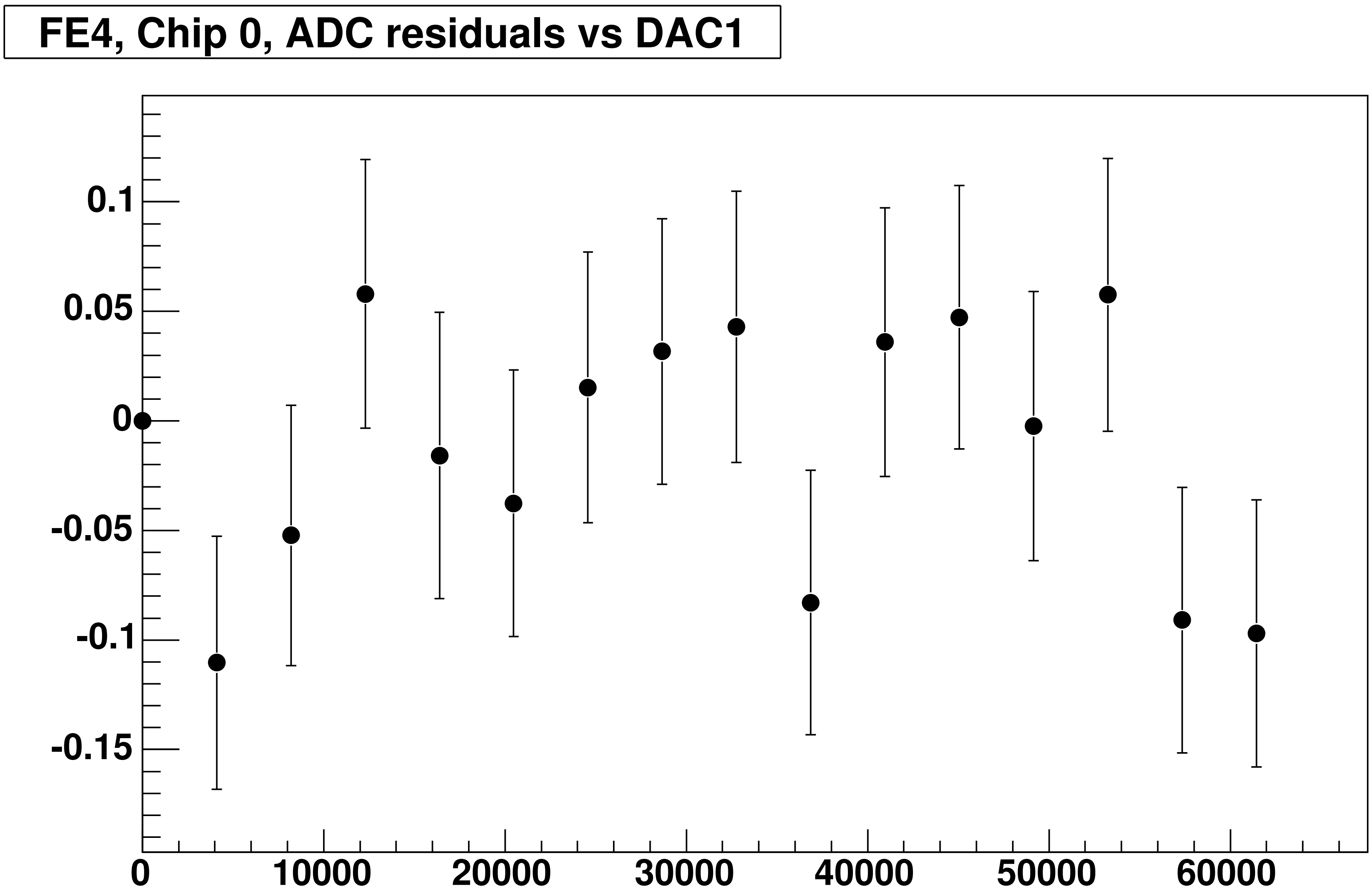

FE4, Chip 0, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

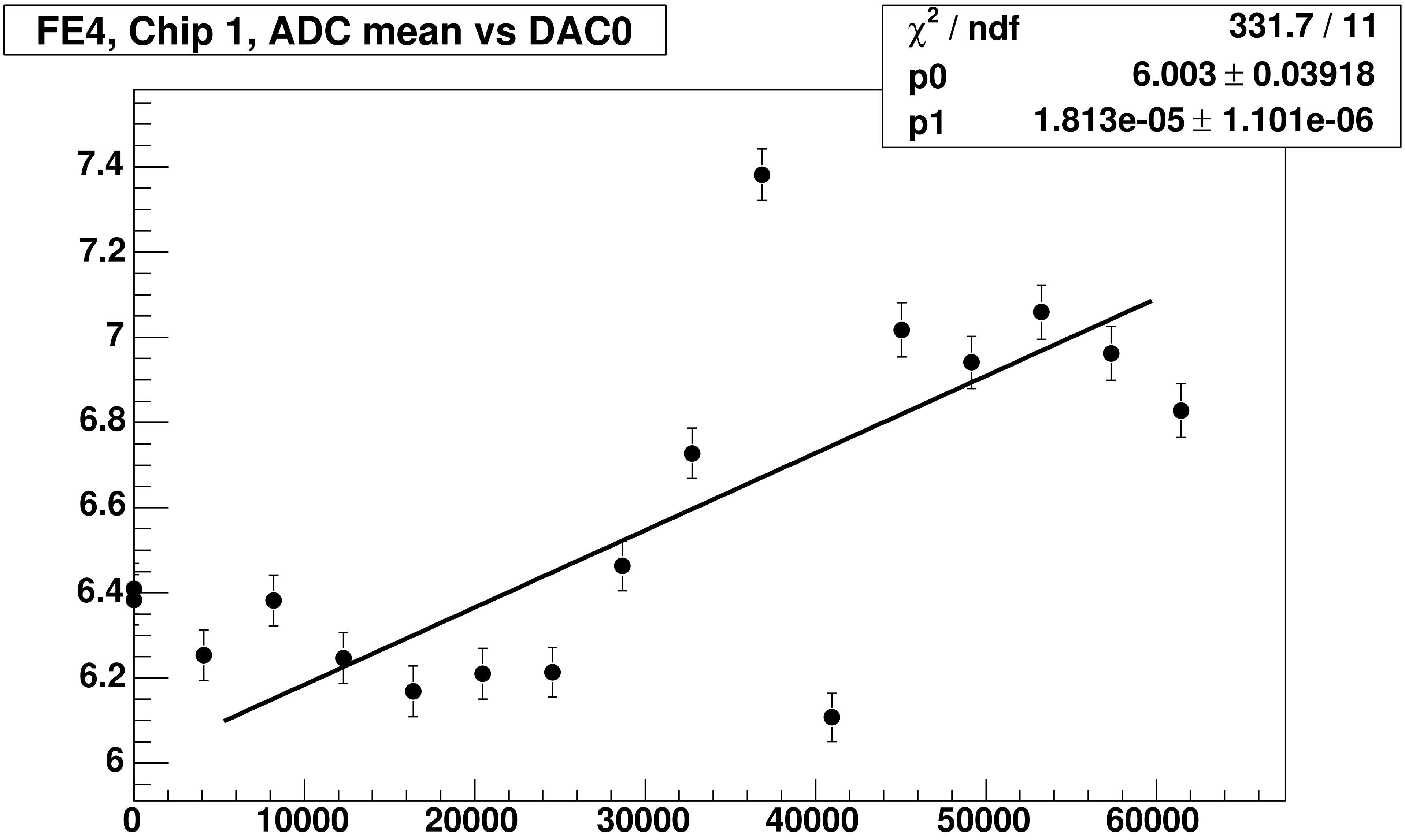

FE4, Chip 0, ADC residuals vs DAC0
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
0
10000
20000
30000
40000
50000
60000


FE4, Chip 0, ADC mean vs DAC1
χ^2 / ndf 8.879 / 11
p0 11.53 ± 0.0401
p1 -1.05e-06 ± 1.107e-06
11.65
11.6
11.55
11.5
11.45
11.4
11.35
11.3
0
10000
20000
30000
40000
50000
60000

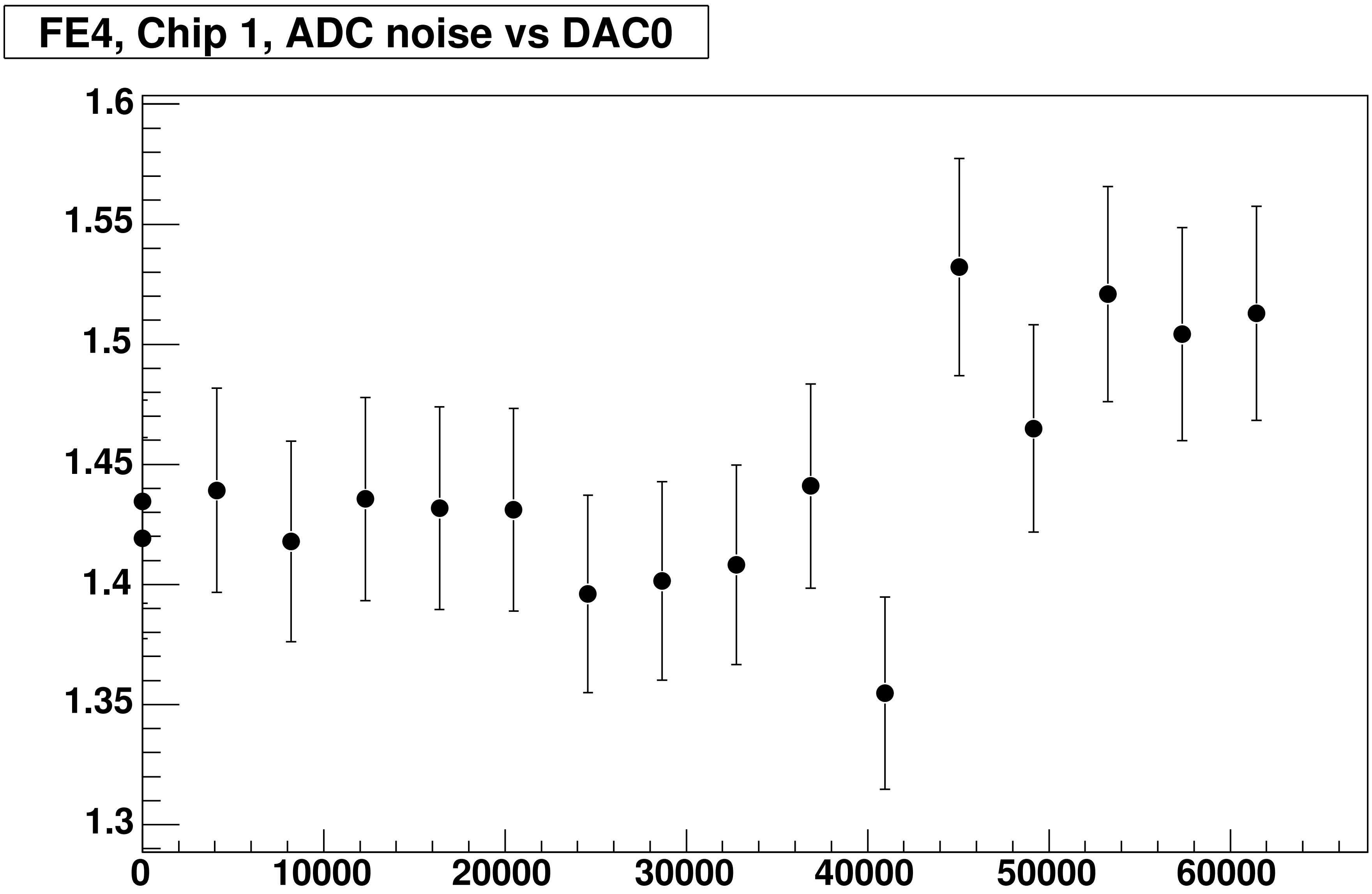


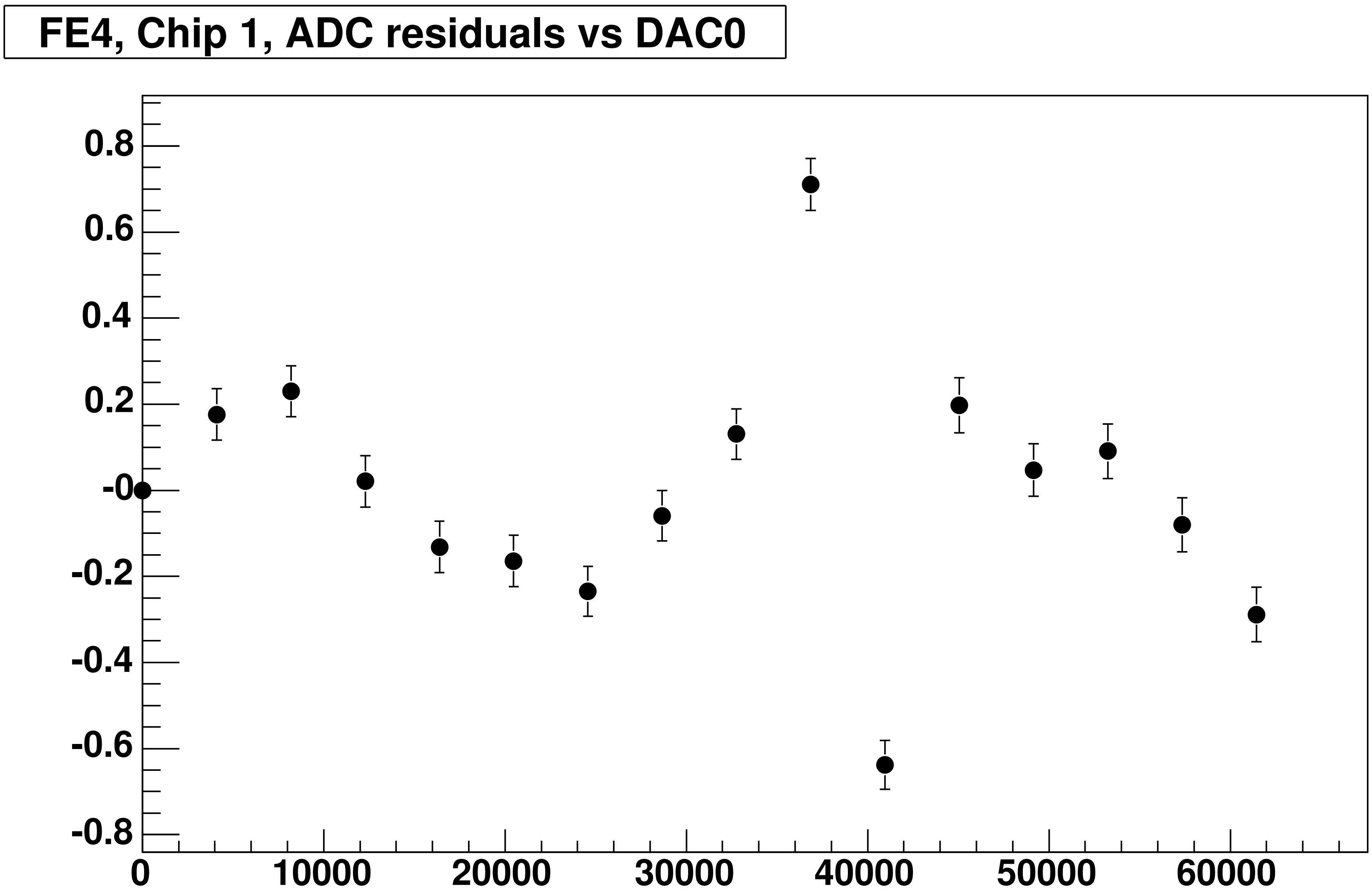
FE4, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

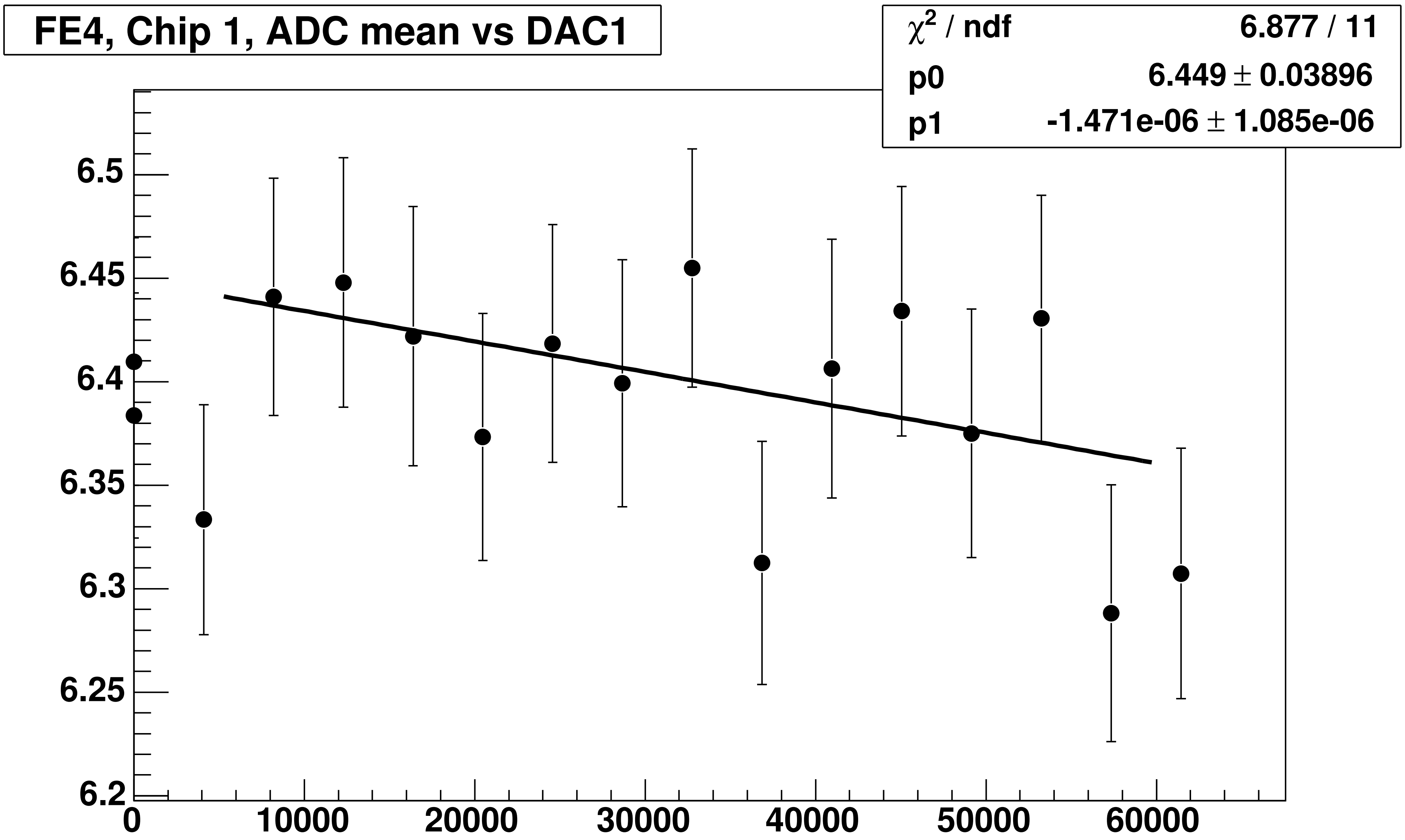

FE4, Chip 0, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



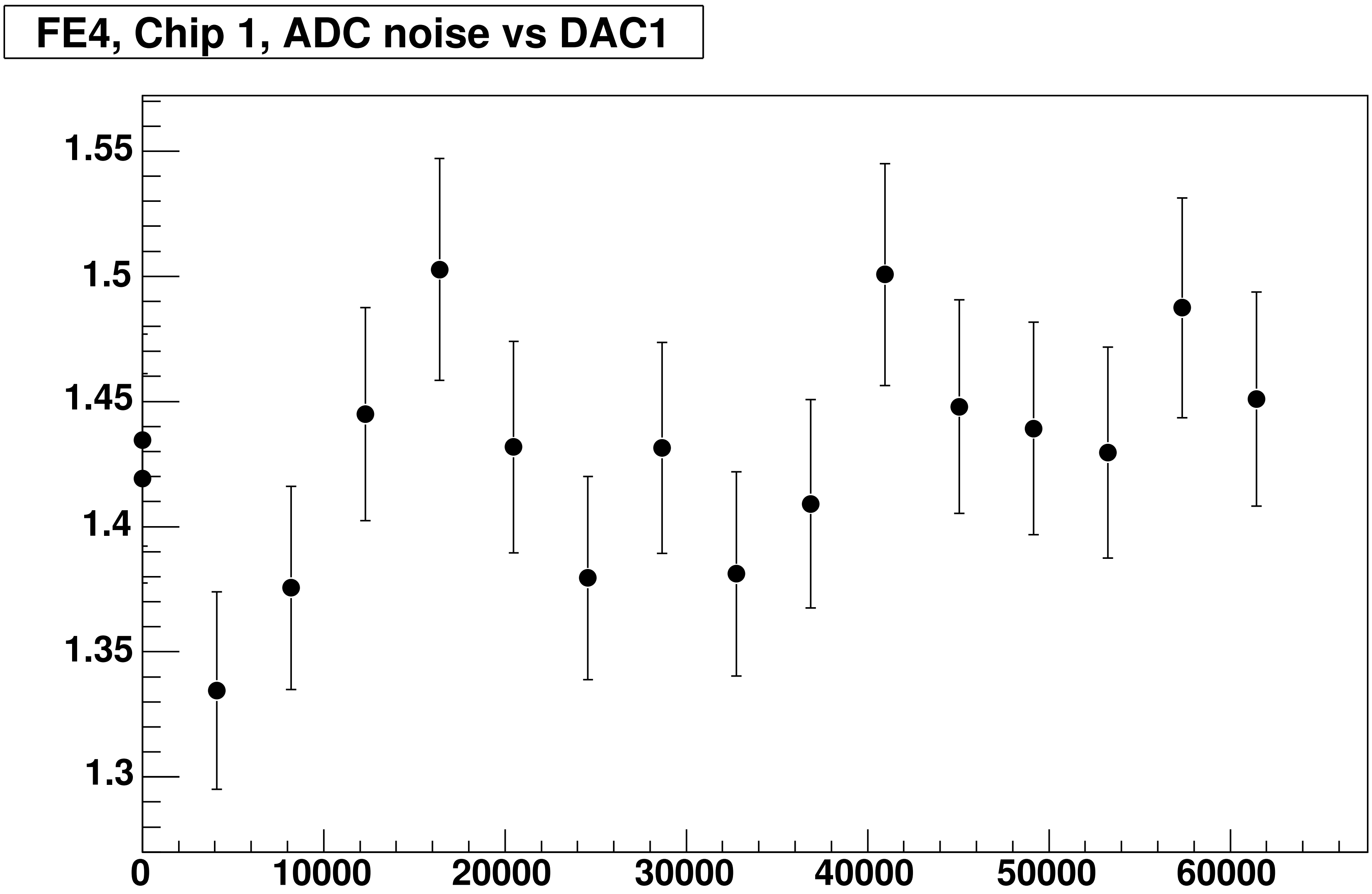
FE4, Chip 1, ADC mean vs DAC0
χ^2 / ndf 331.7 / 11
p0 6.003 ± 0.03918
p1 1.813e-05 ± 1.101e-06
7.4
7.2
7
6.8
6.6
6.4
6.2
6
0
10000
20000
30000
40000
50000
60000


FE4, Chip 1, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

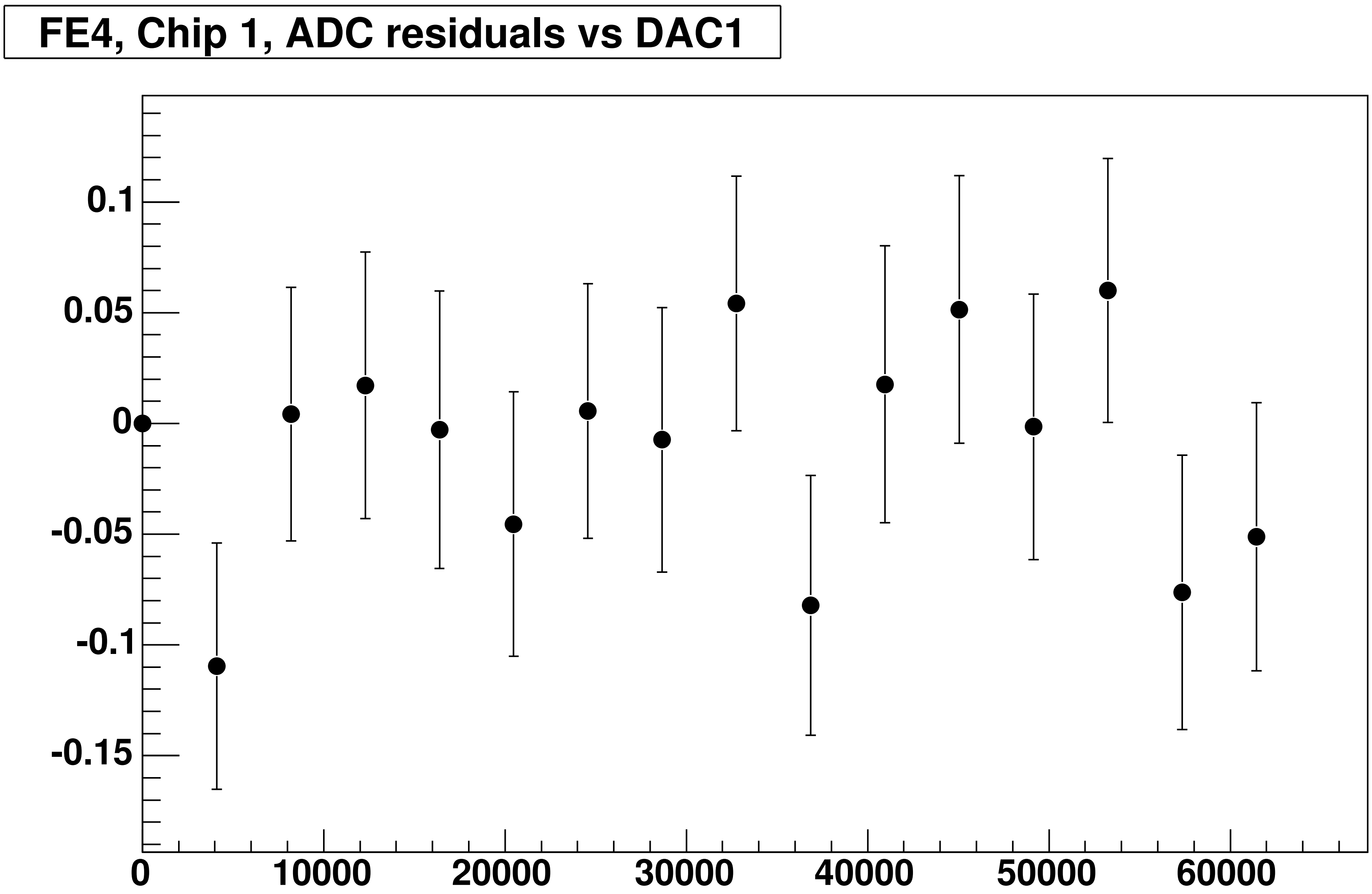

FE4, Chip 1, ADC residuals vs DAC0
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
0
10000
20000
30000
40000
50000
60000

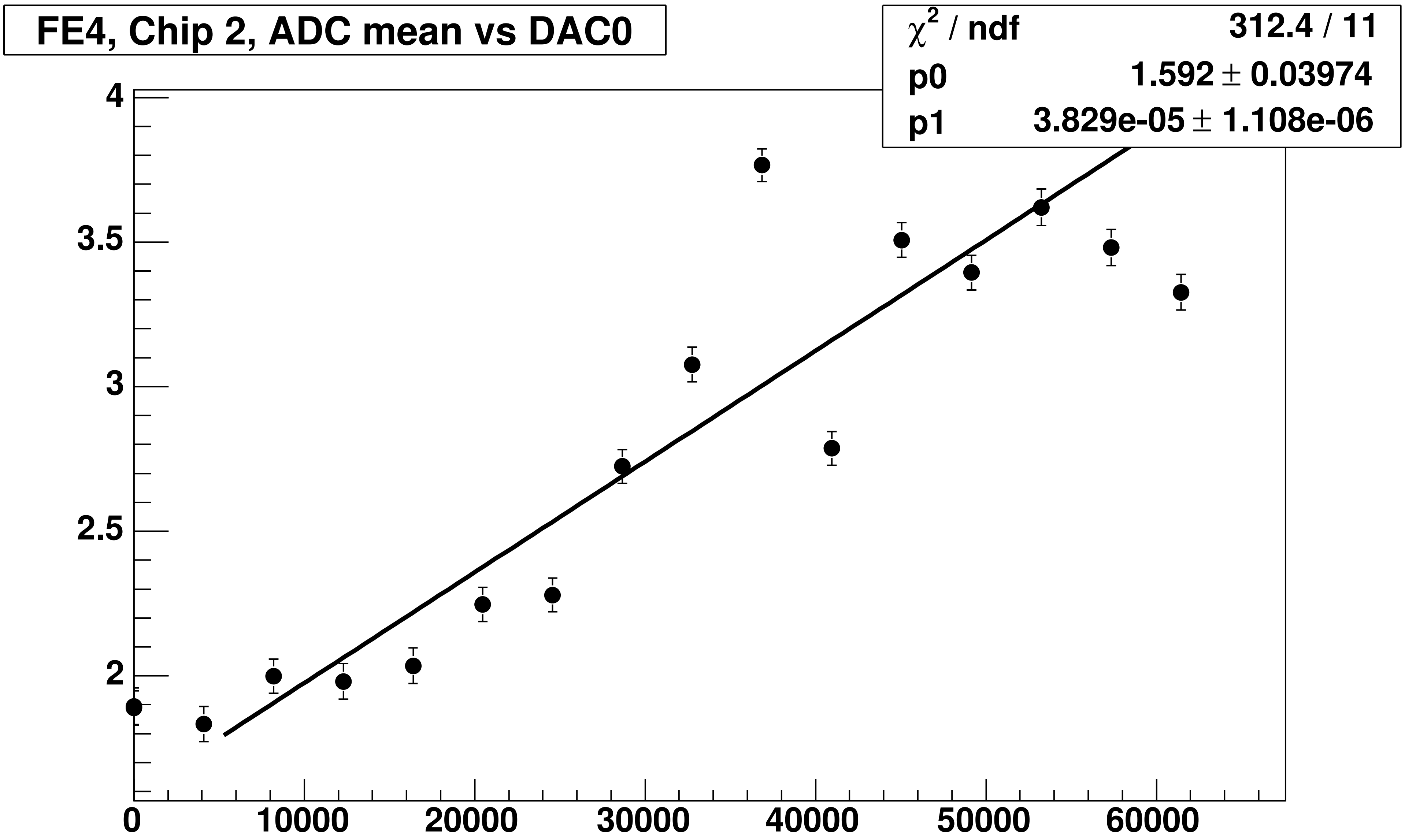


FE4, Chip 1, ADC mean vs DAC1
χ^2 / ndf 6.877 / 11
p0 6.449 ± 0.03896
p1 -1.471e-06 ± 1.085e-06
6.2
6.25
6.3
6.35
6.4
6.45
6.5
0
10000
20000
30000
40000
50000
60000

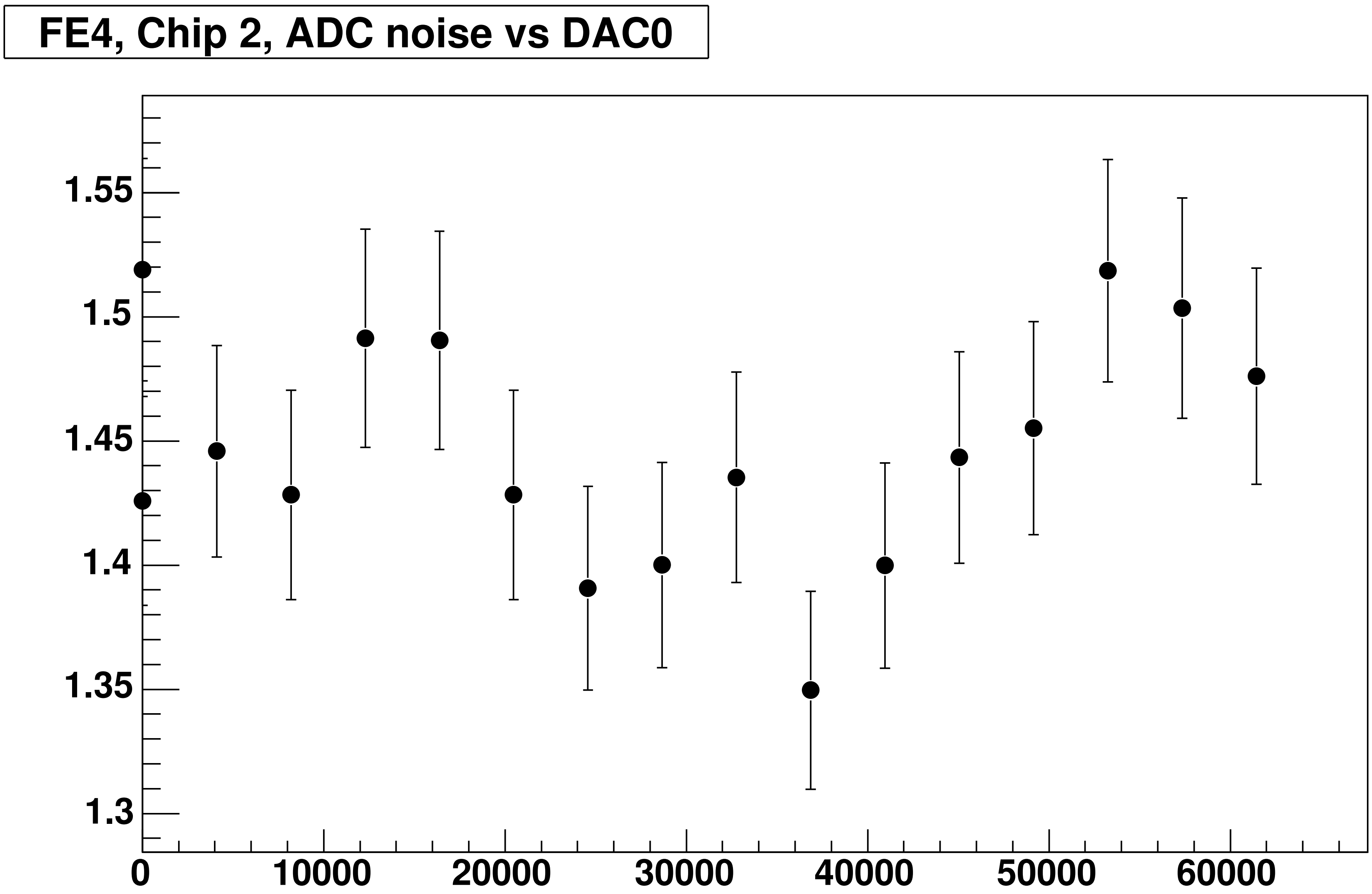


FE4, Chip 1, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

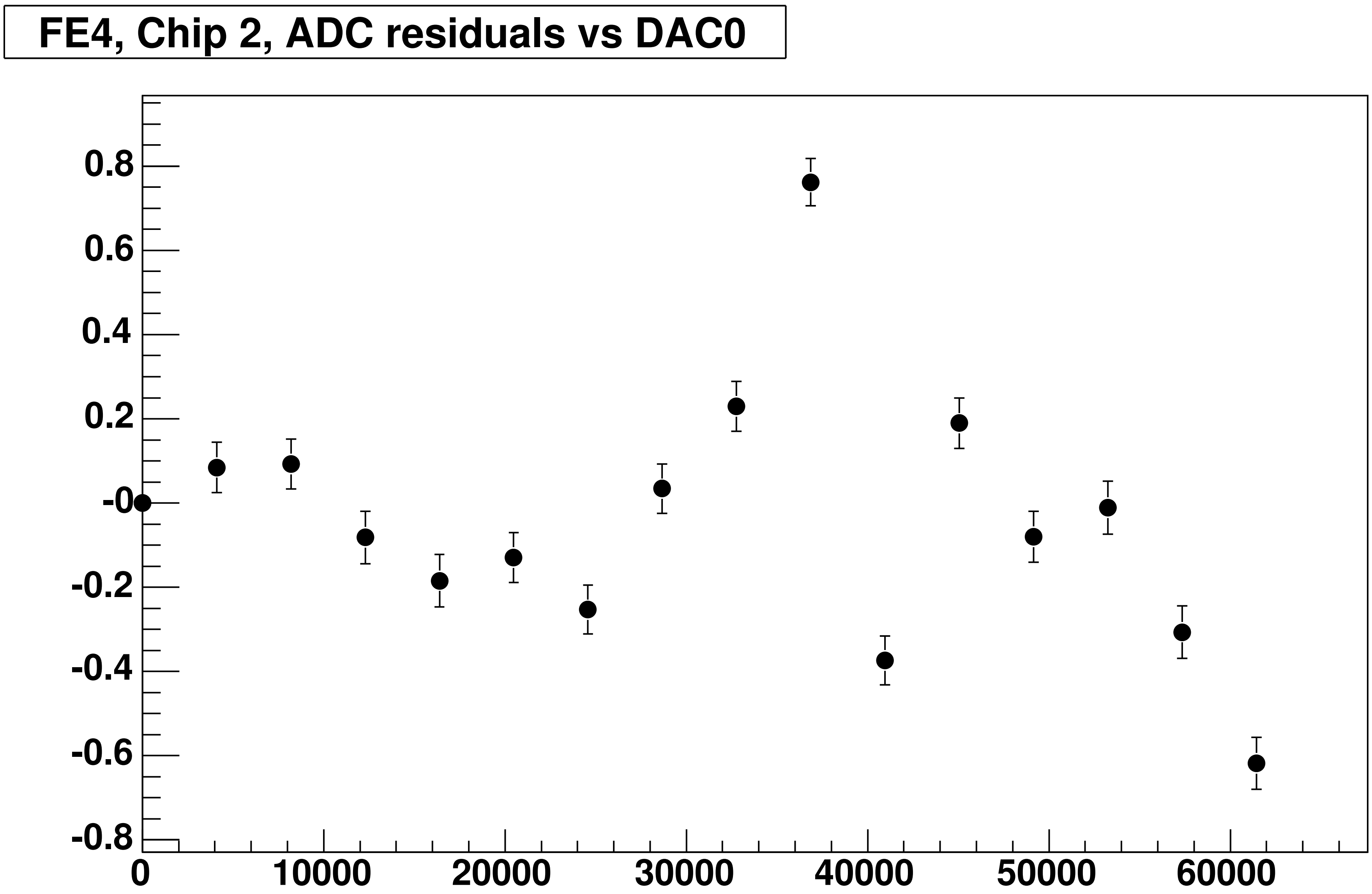

FE4, Chip 1, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

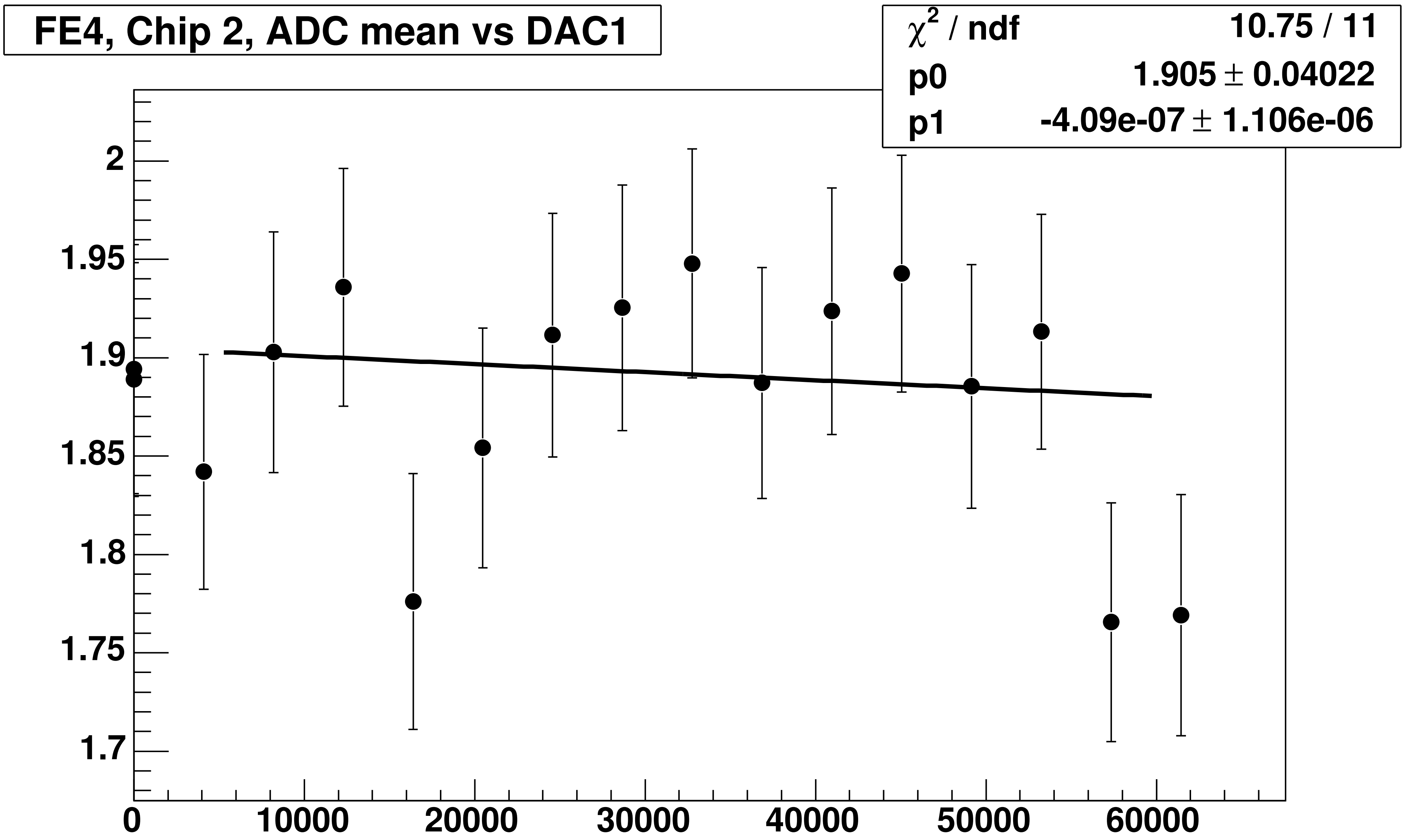


FE4, Chip 2, ADC mean vs DAC0
χ^2 / ndf 312.4 / 11
p0 1.592 ± 0.03974
p1 3.829e-05 ± 1.108e-06
4
3.5
3
2.5
2
0
10000
20000
30000
40000
50000
60000

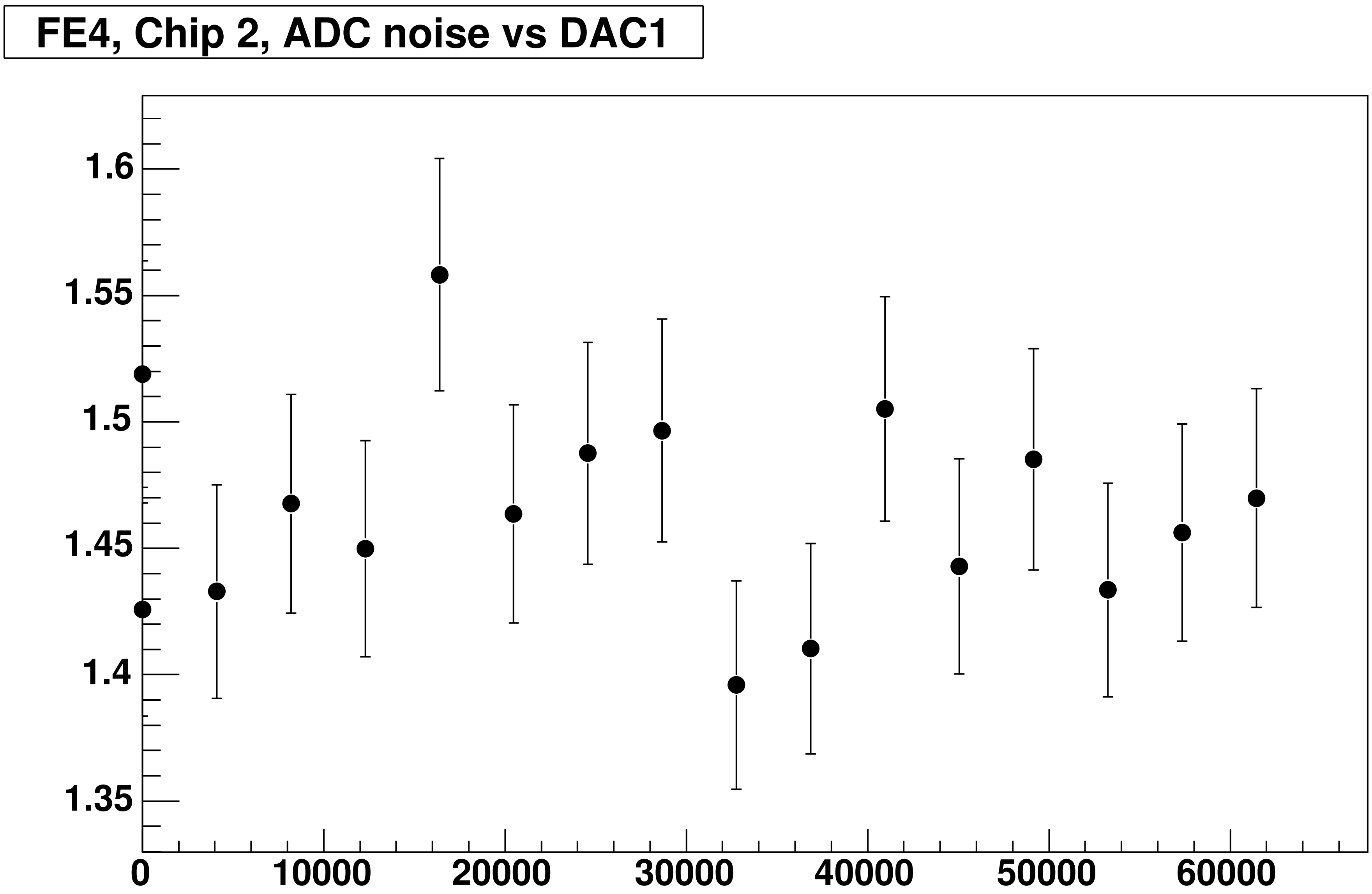


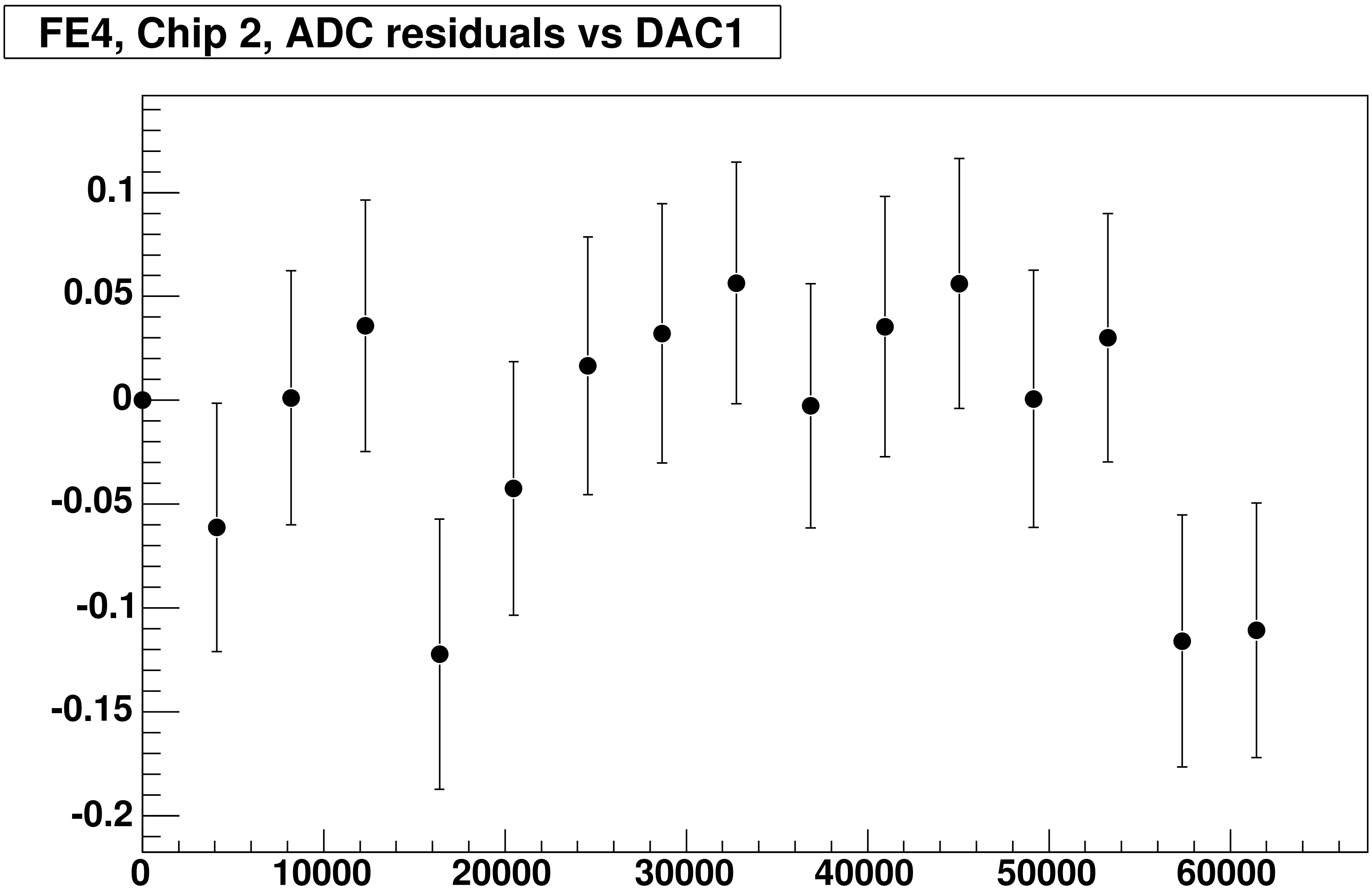
FE4, Chip 2, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

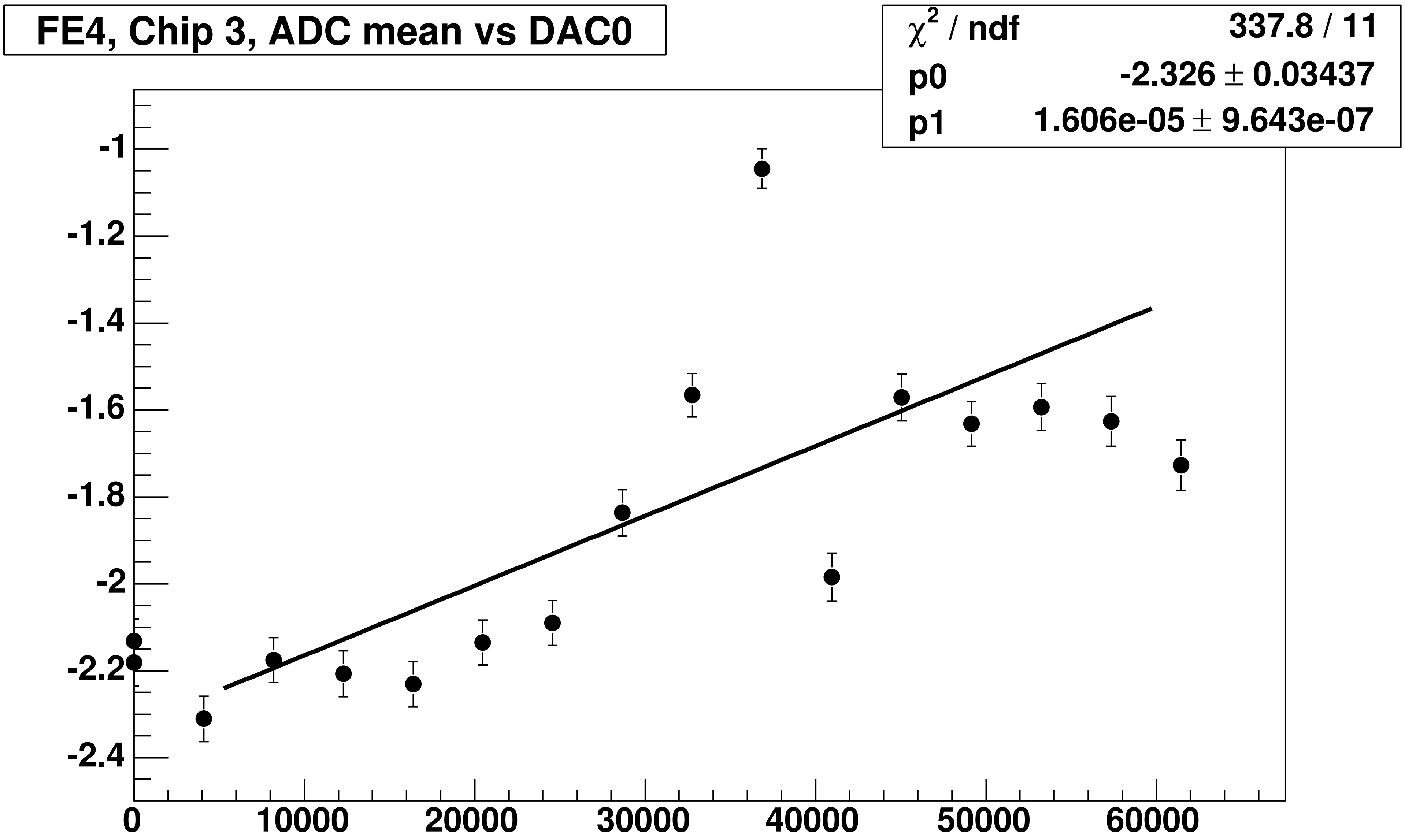

FE4, Chip 2, ADC residuals vs DAC0
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
0
10000
20000
30000
40000
50000
60000

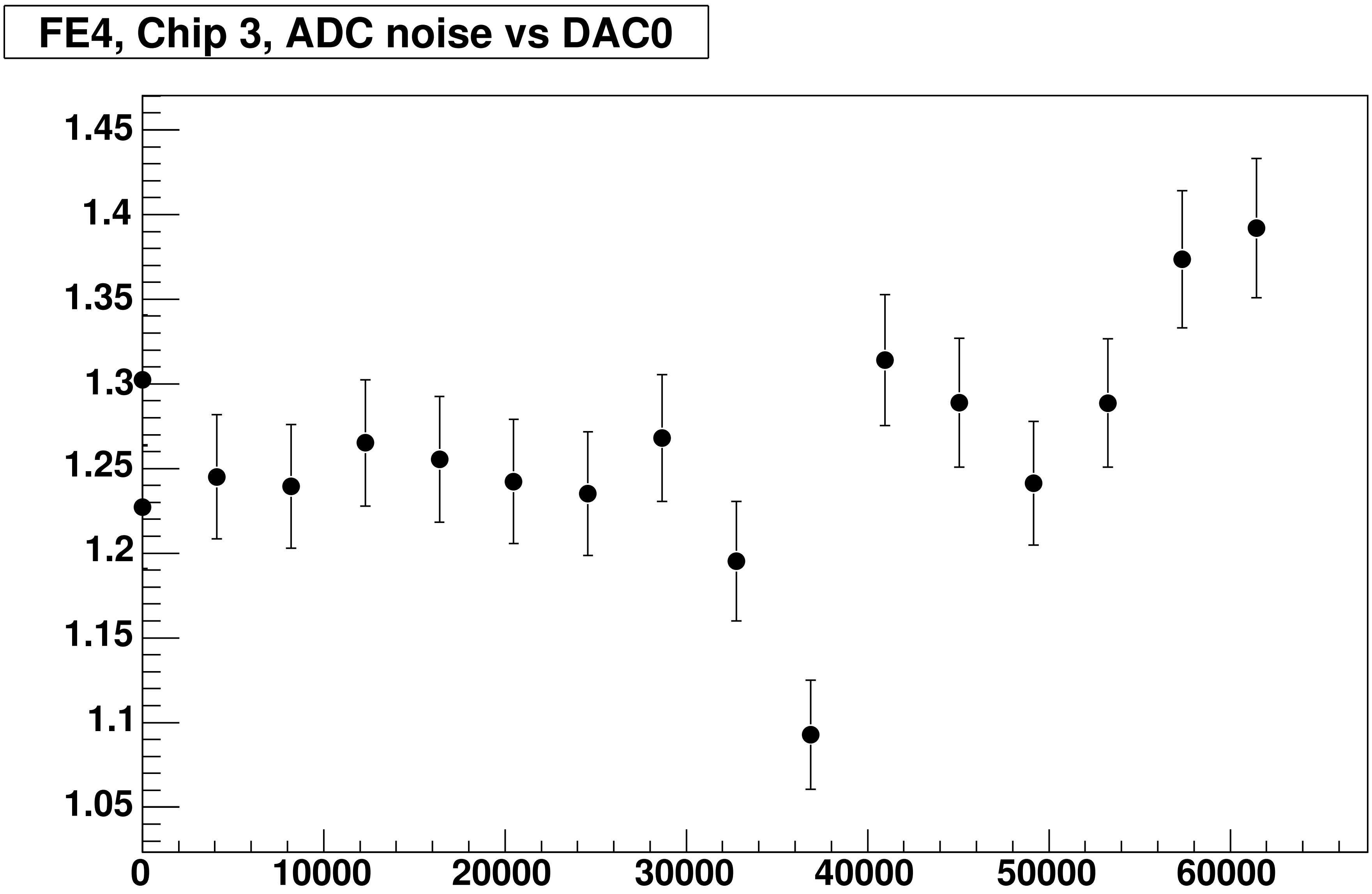


FE4, Chip 2, ADC mean vs DAC1
χ^2 / ndf 10.75 / 11
p0 1.905 ± 0.04022
p1 -4.09e-07 ± 1.106e-06
2
1.95
1.9
1.85
1.8
1.75
1.7
0
10000
20000
30000
40000
50000
60000

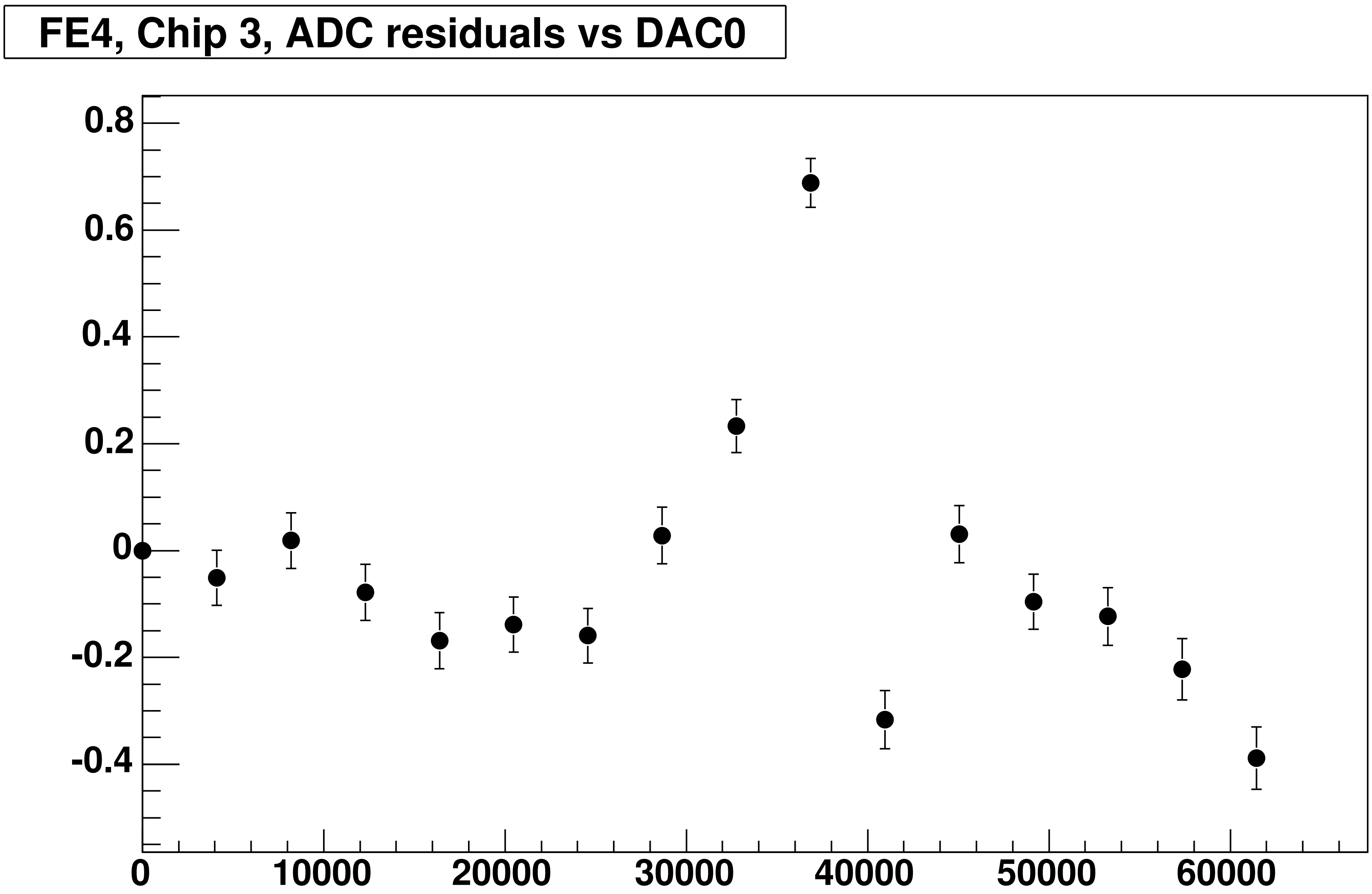

FE4, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE4, Chip 2, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

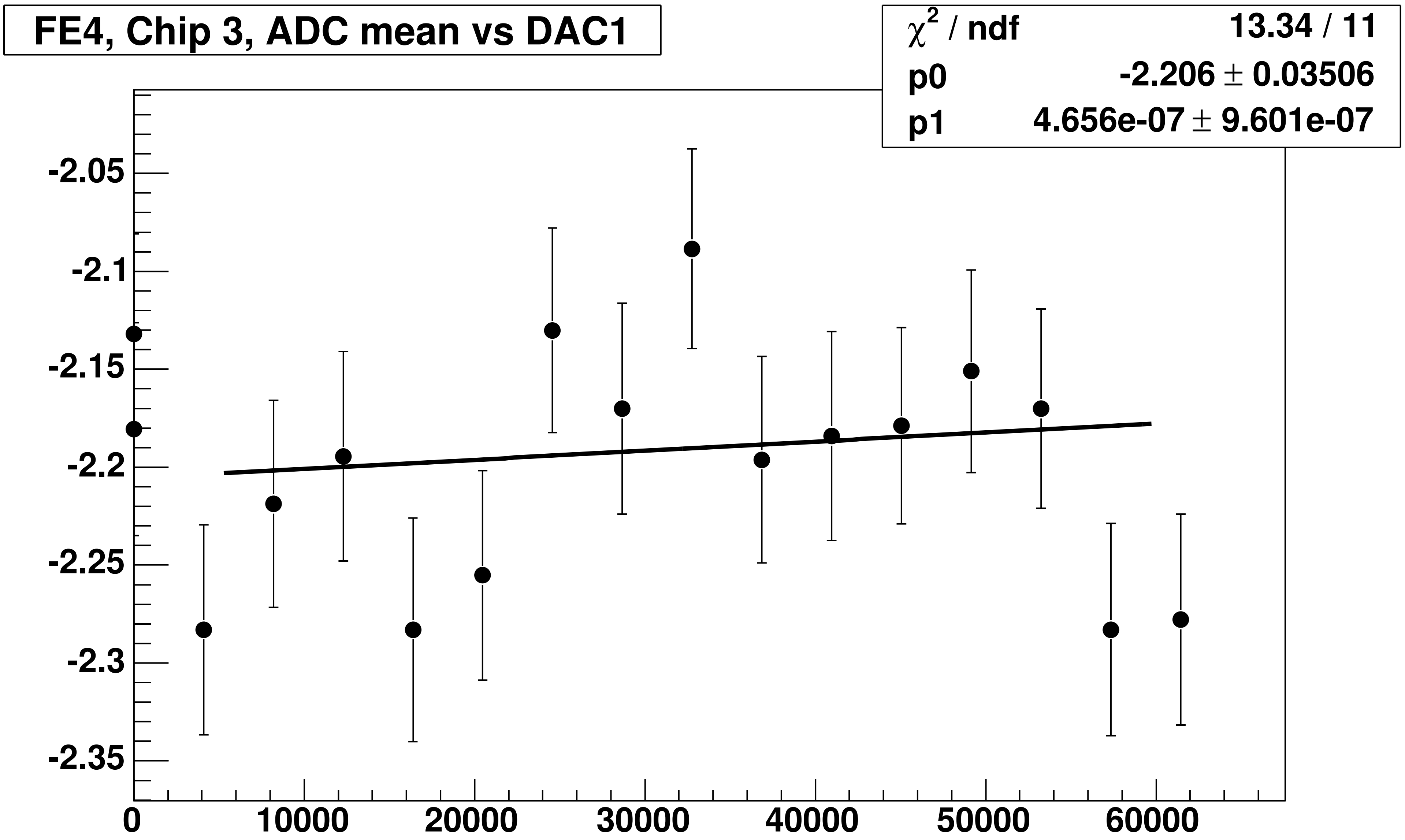

FE4, Chip 3, ADC mean vs DAC0
χ^2 / ndf 337.8 / 11
p0 -2.326 ± 0.03437
p1 1.606e-05 ± 9.643e-07
-1
-1.2
-1.4
-1.6
-1.8
-2
-2.2
-2.4
0
10000
20000
30000
40000
50000
60000

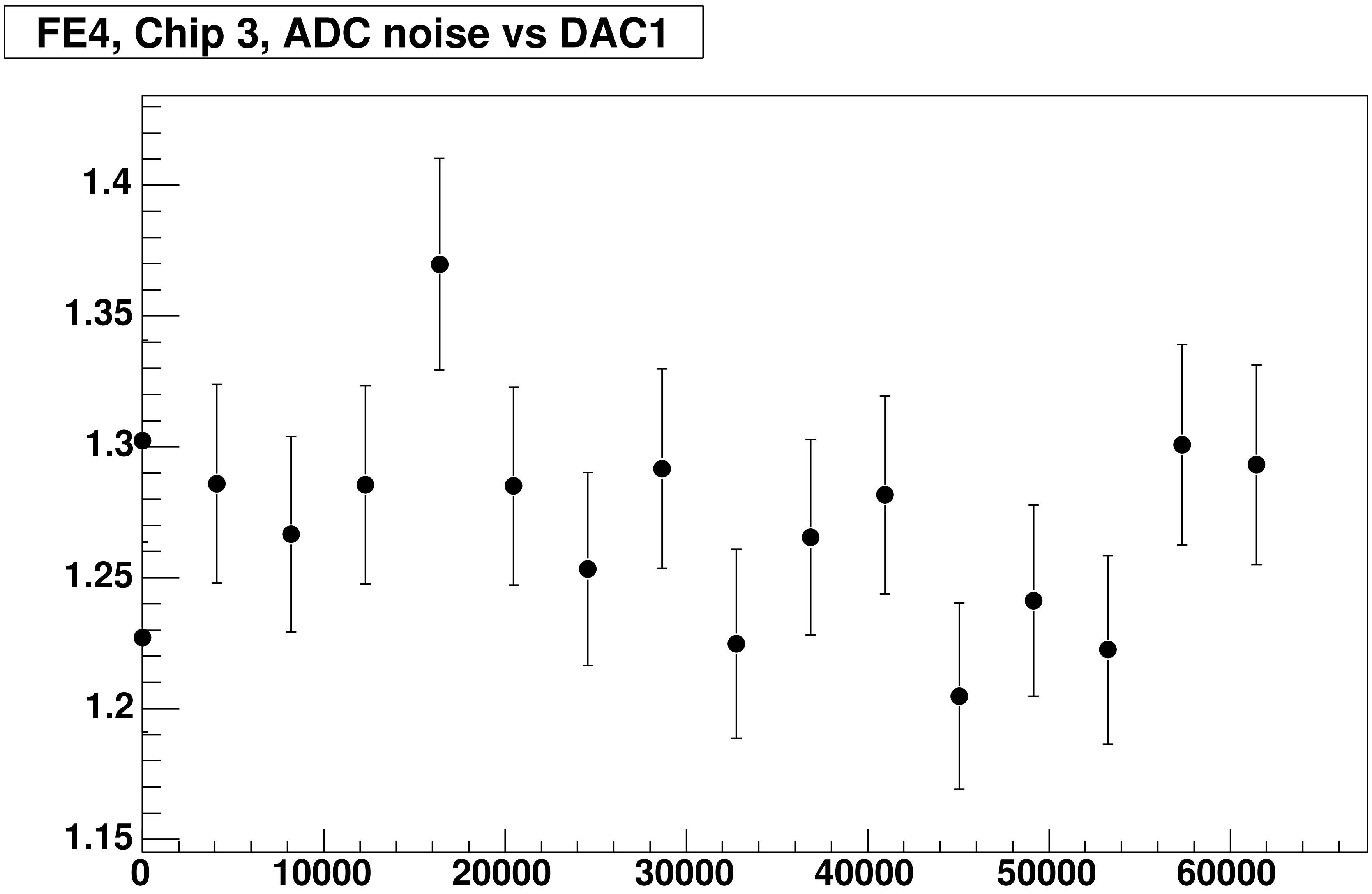


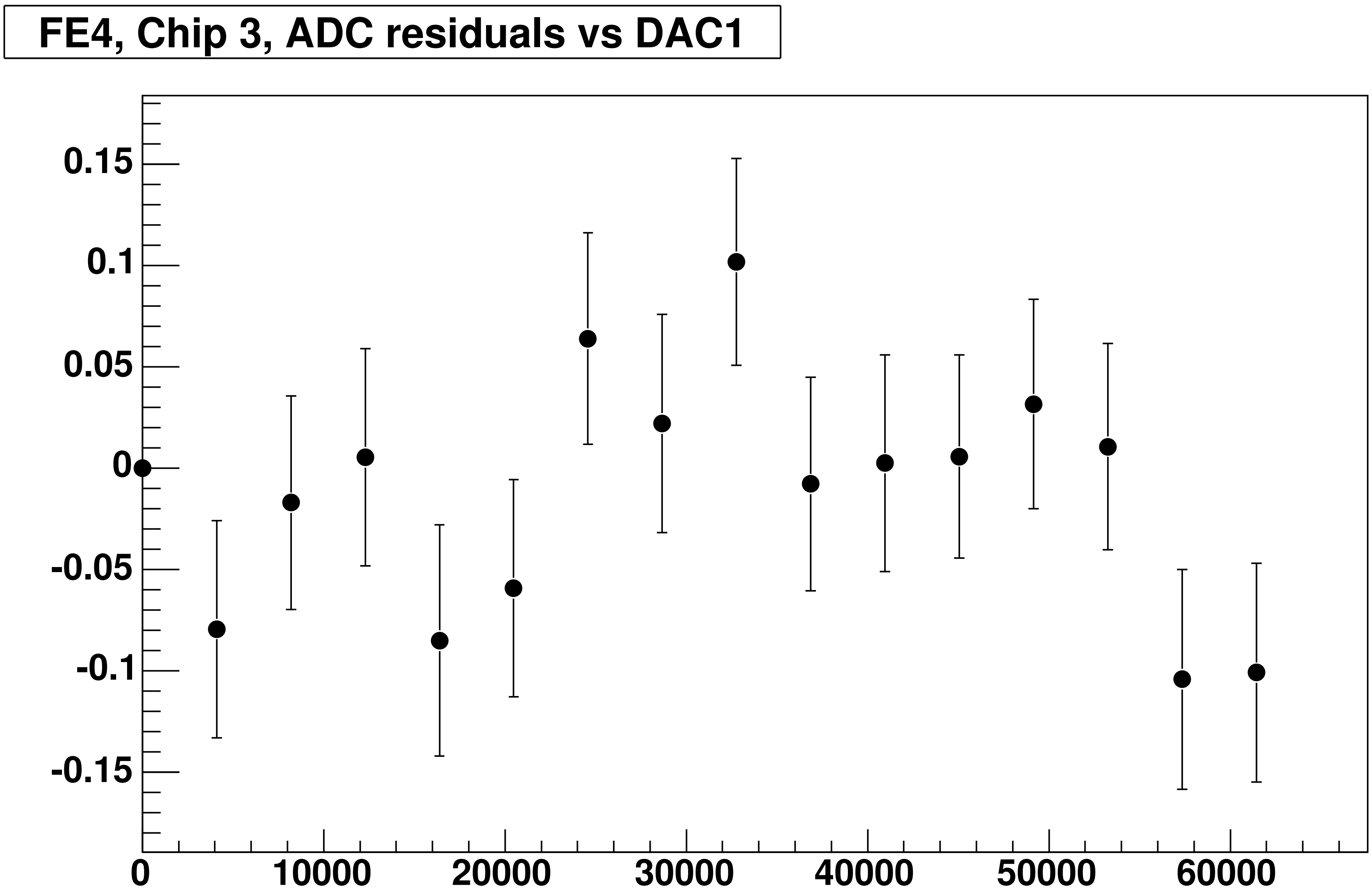
FE4, Chip 3, ADC noise vs DAC0
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
0
10000
20000
30000
40000
50000
60000

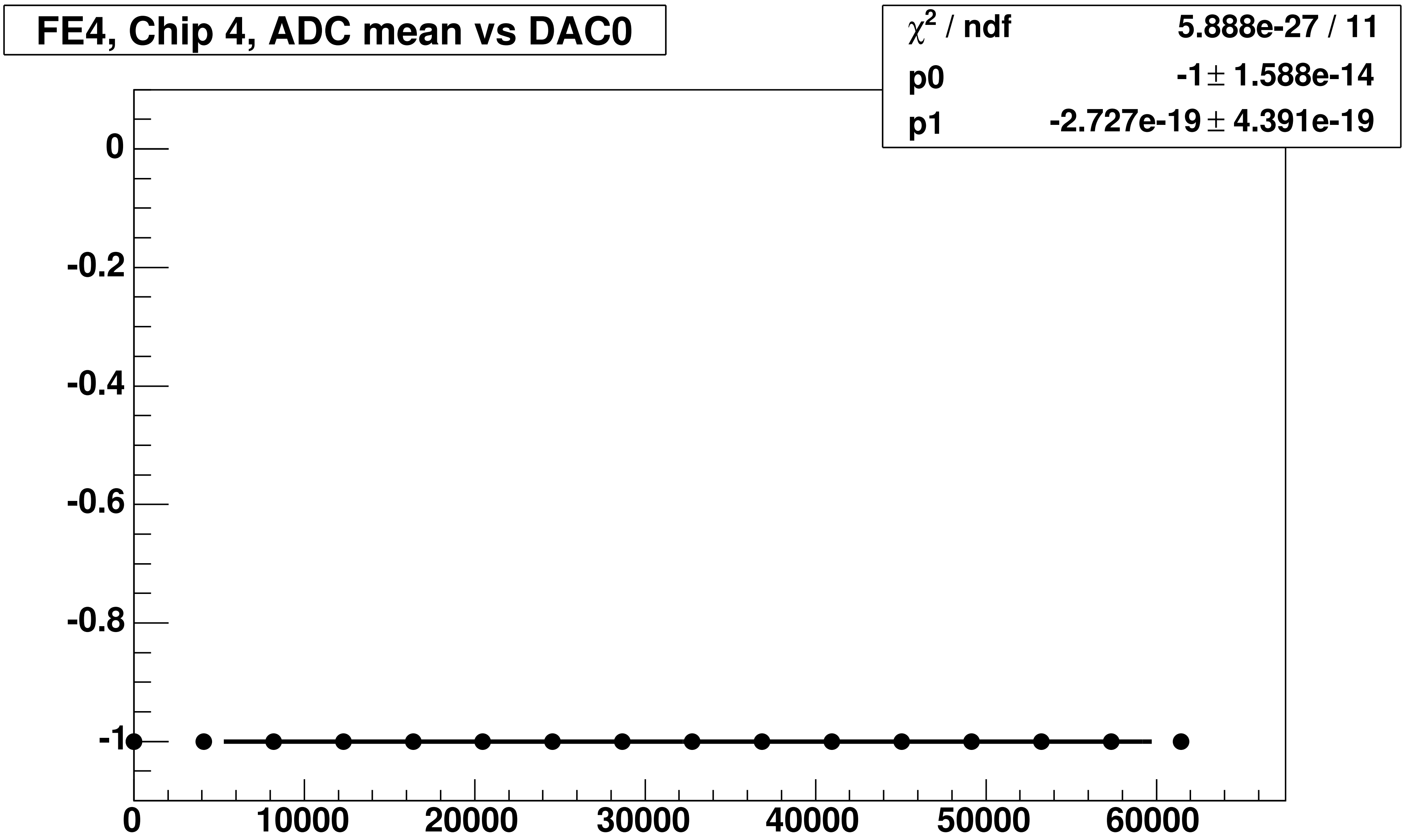


FE4, Chip 3, ADC residuals vs DAC0
0.8
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

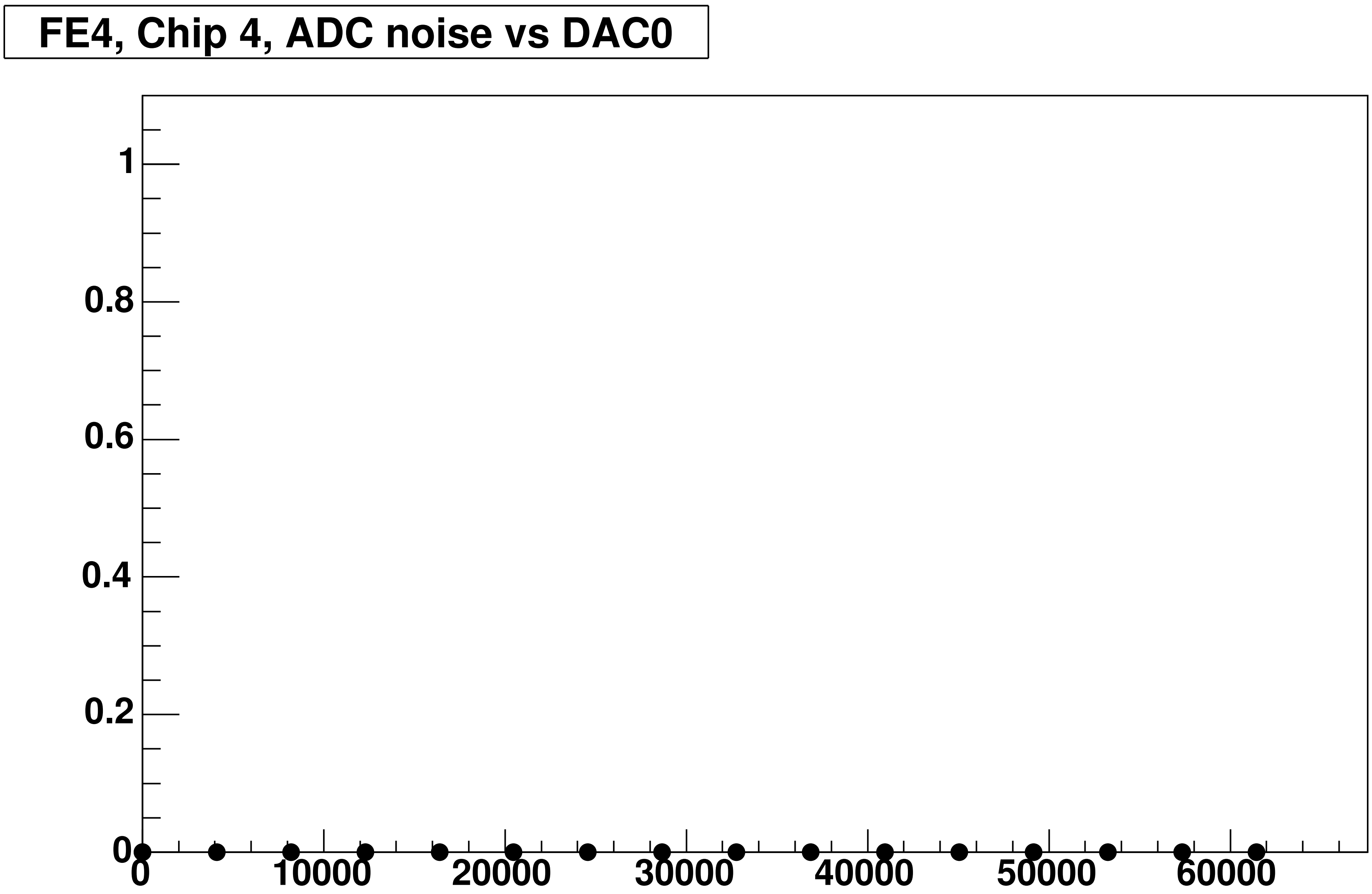

FE4, Chip 3, ADC mean vs DAC1
χ^2 / ndf 13.34 / 11
p0 -2.206 ± 0.03506
p1 4.656e-07 ± 9.601e-07
-2.05
-2.1
-2.15
-2.2
-2.25
-2.3
-2.35
0
10000
20000
30000
40000
50000
60000

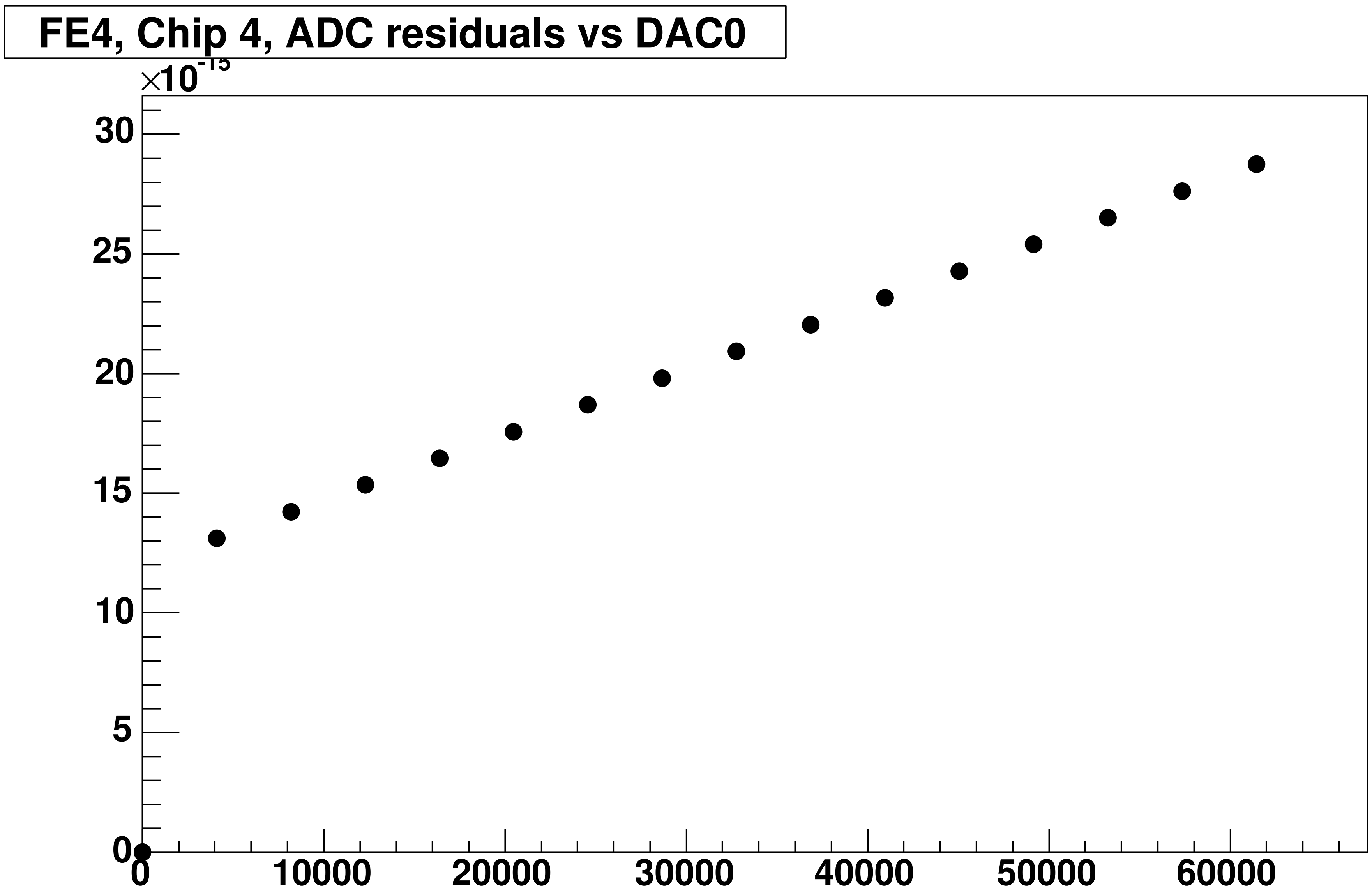

FE4, Chip 3, ADC noise vs DAC1
1.4
1.35
1.3
1.25
1.2
1.15
0
10000
20000
30000
40000
50000
60000


FE4, Chip 3, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

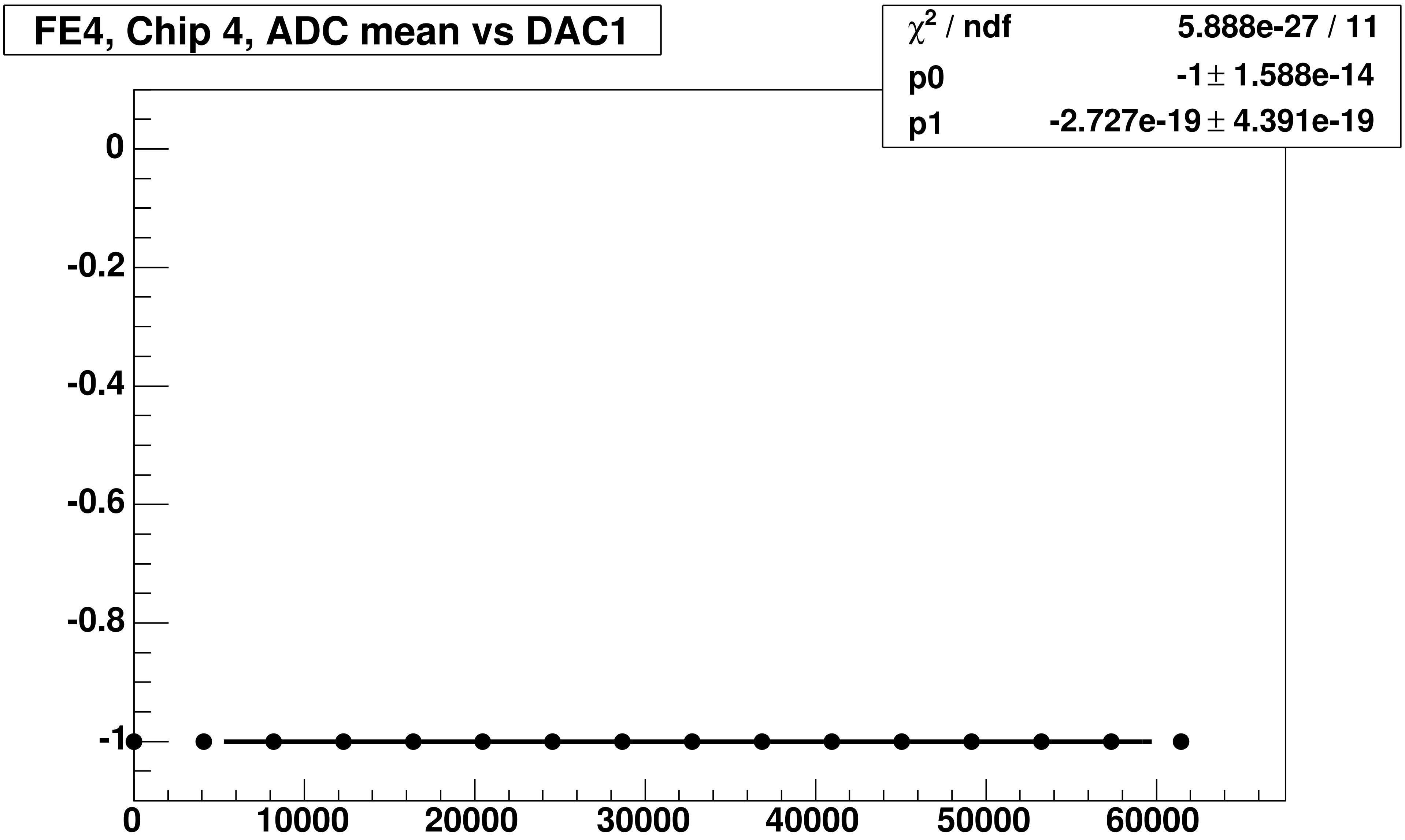


FE4, Chip 4, ADC mean vs DAC0
χ^2 / ndf 5.888e-27 / 11
p0 -1 ± 1.588e-14
p1 -2.727e-19 ± 4.391e-19
0
-0.2
-0.4
-0.6
-0.8
-1
0
10000
20000
30000
40000
50000
60000

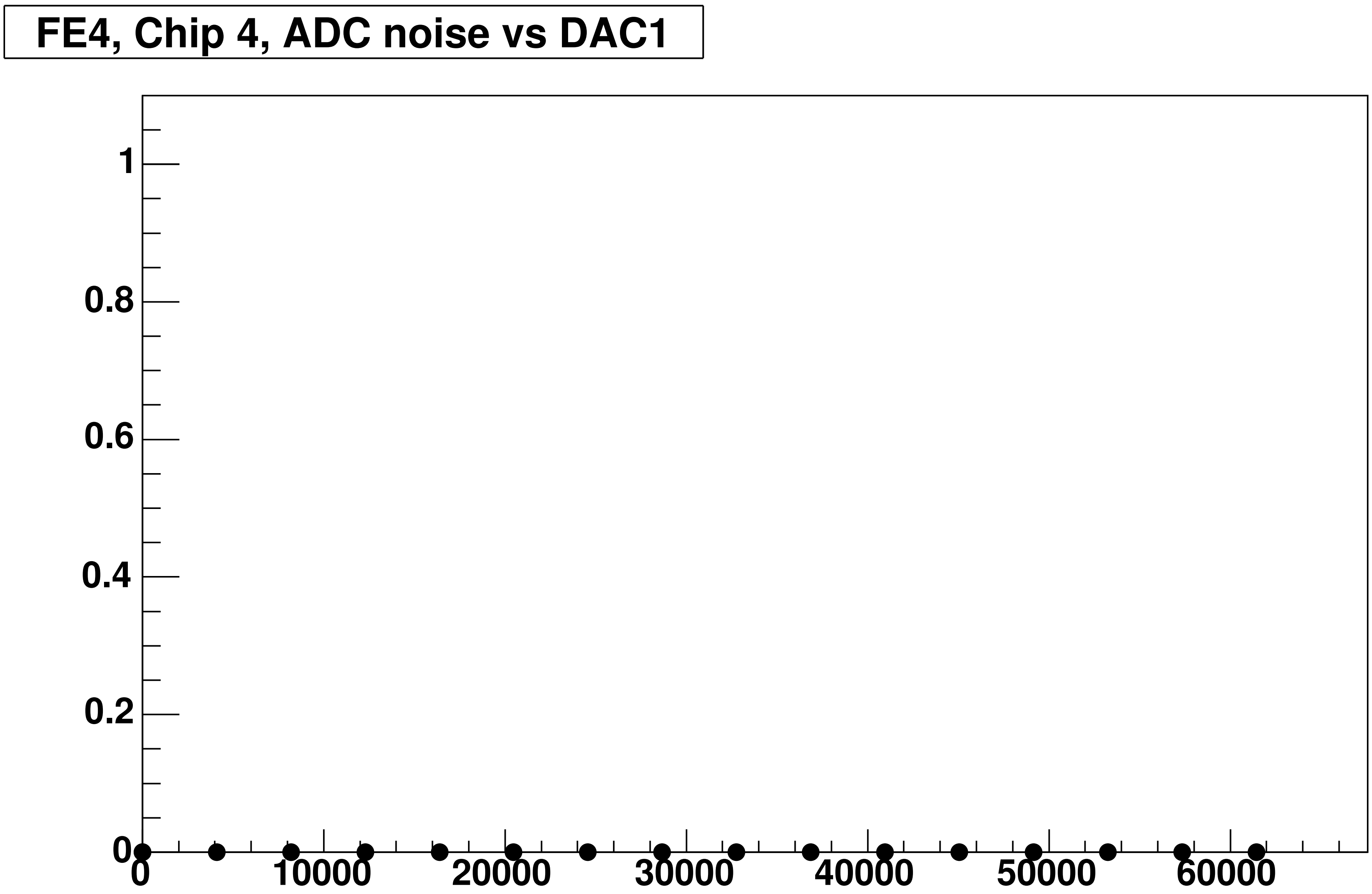

FE4, Chip 4, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000

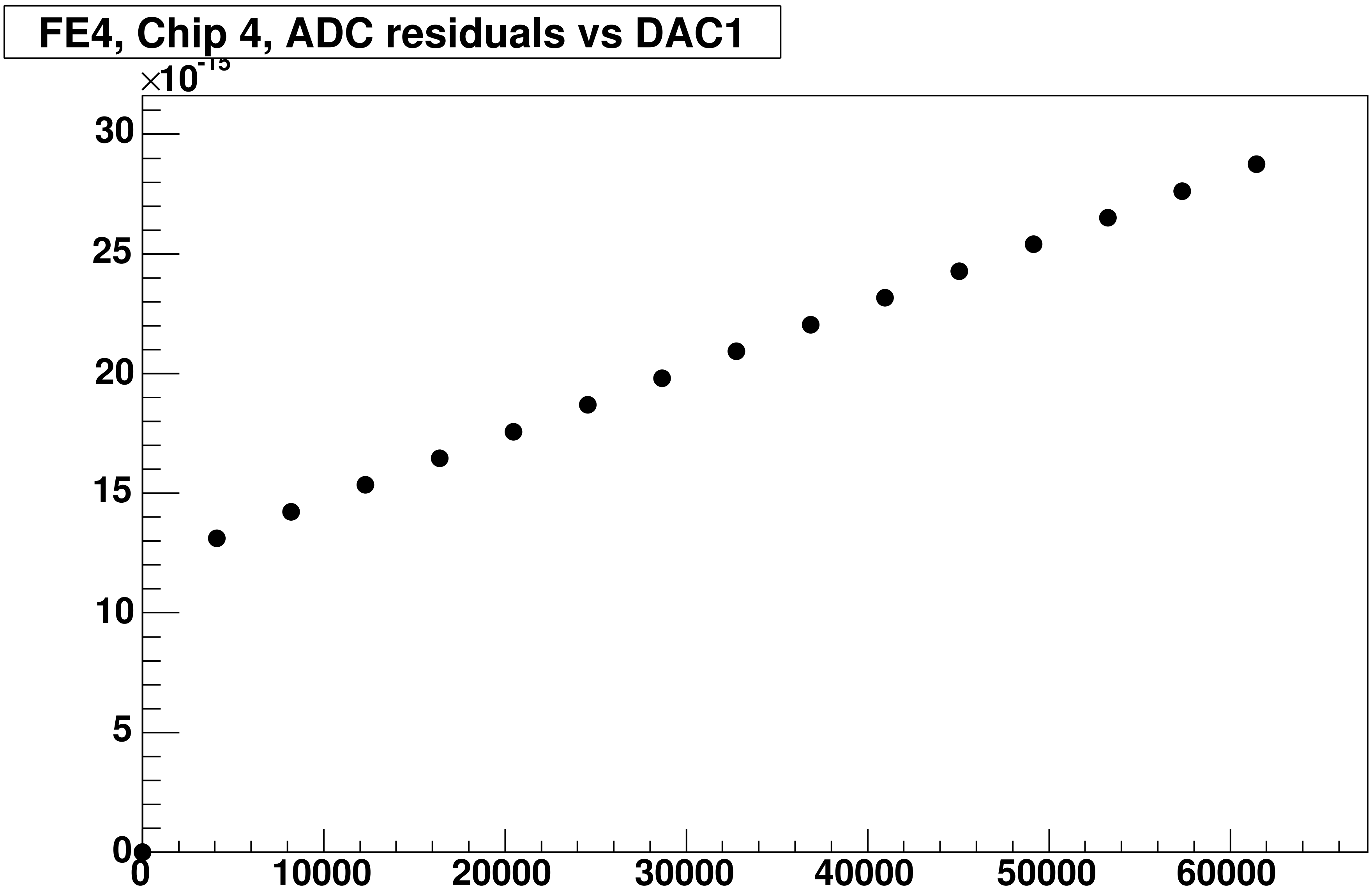


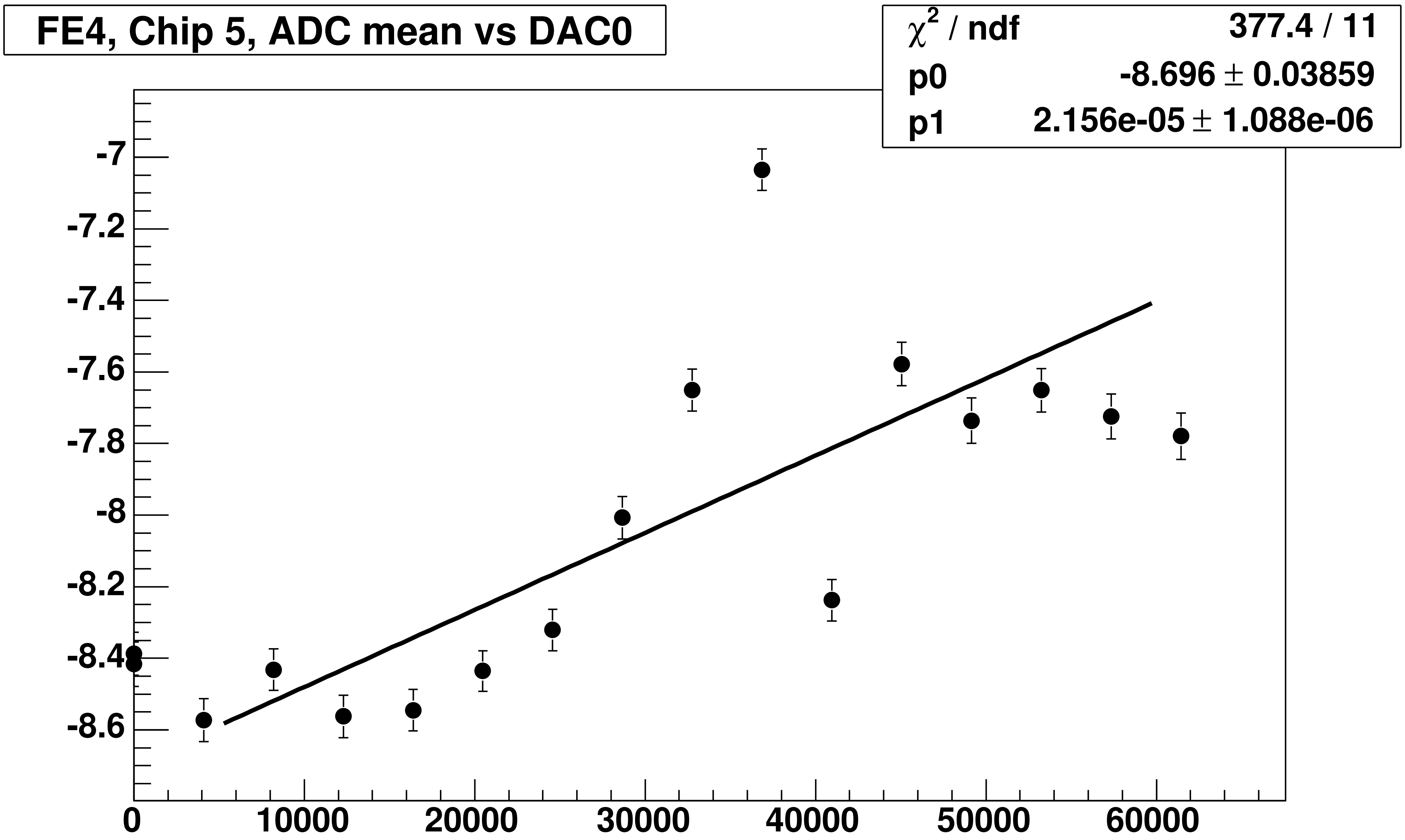
FE4, Chip 4, ADC residuals vs DAC0
×10^-15
30
25
20
15
10
5
0
0
10000
20000
30000
40000
50000
60000



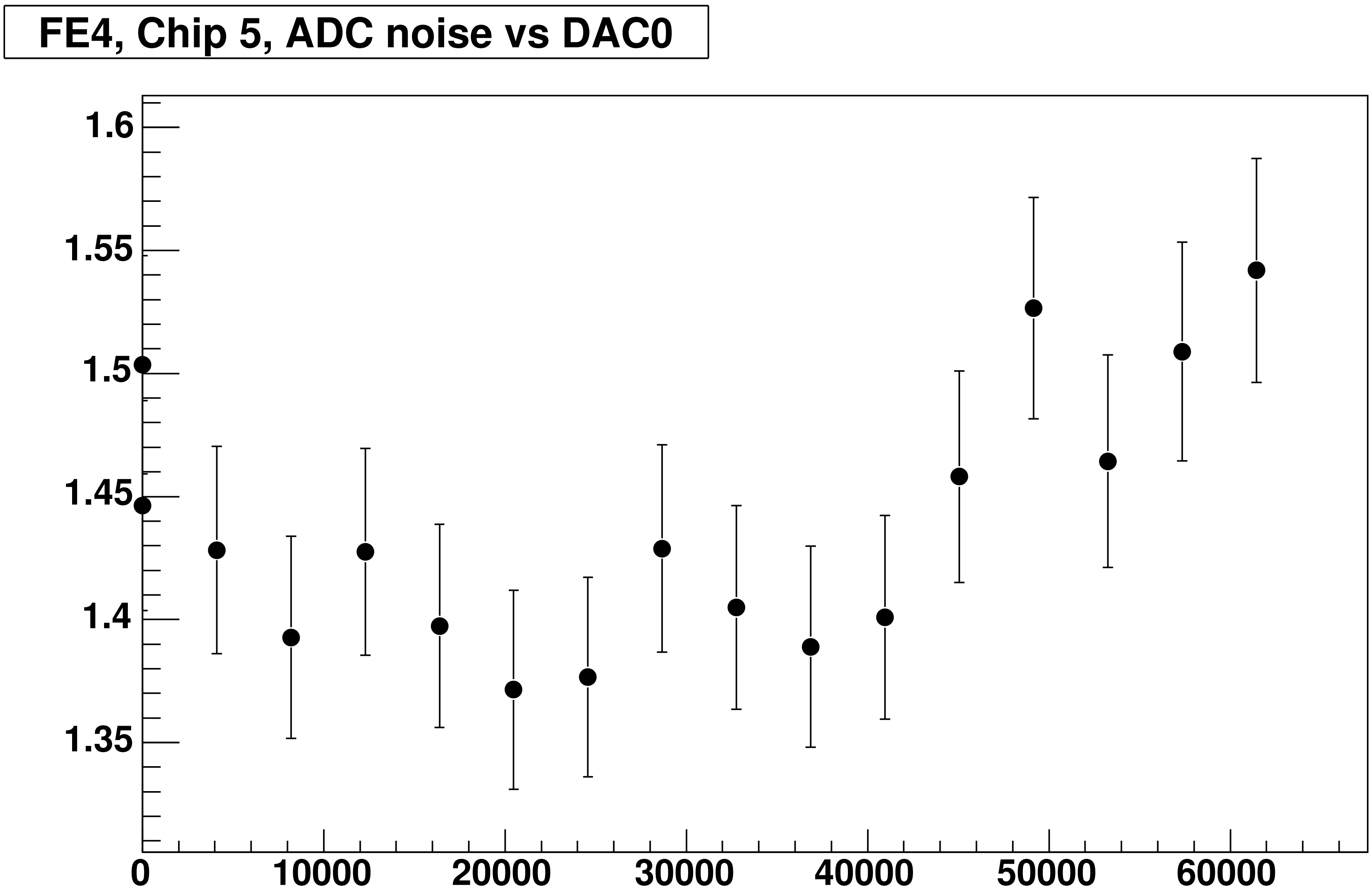
FE4, Chip 4, ADC mean vs DAC1
χ^2 / ndf 5.888e-27 / 11
p0 -1 ± 1.588e-14
p1 -2.727e-19 ± 4.391e-19
0
-0.2
-0.4
-0.6
-0.8
-1
0
10000
20000
30000
40000
50000
60000


FE4, Chip 4, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000

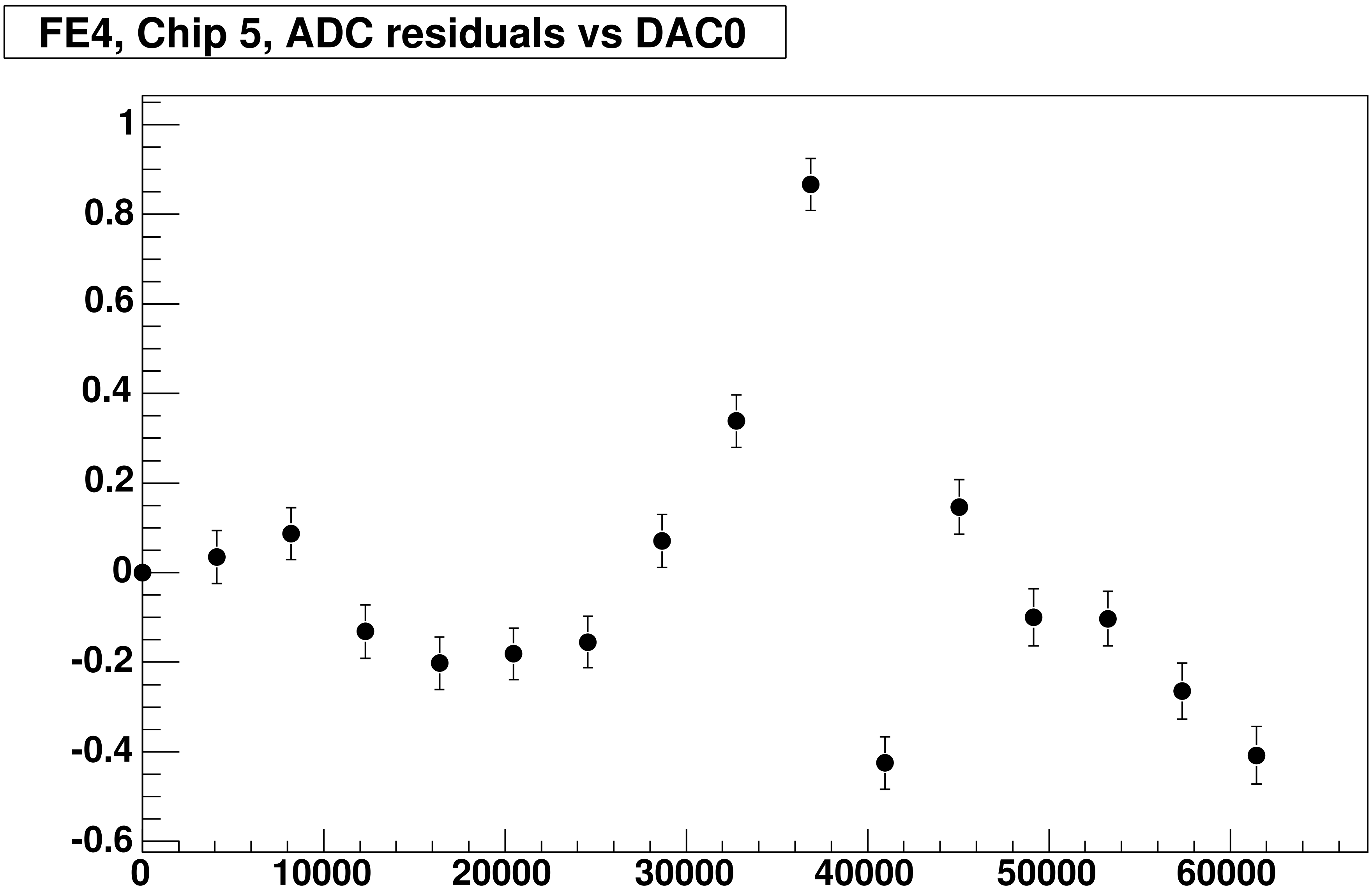

FE4, Chip 4, ADC residuals vs DAC1
$\times 10^{-15}$
30
25
20
15
10
5
0
0
10000
20000
30000
40000
50000
60000

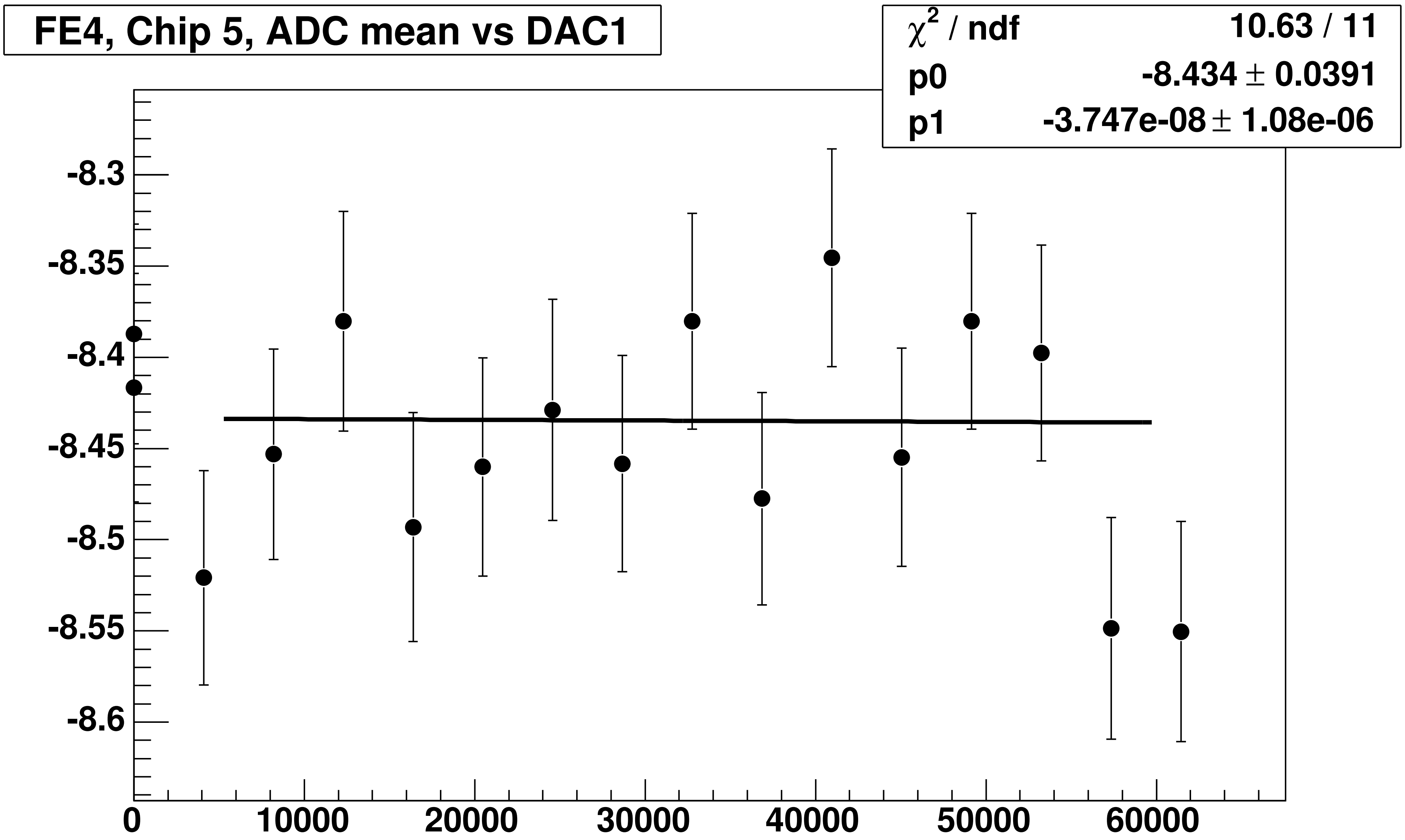


FE4, Chip 5, ADC mean vs DAC0
χ^2 / ndf 377.4 / 11
p0 -8.696 ± 0.03859
p1 2.156e-05 ± 1.088e-06
-7
-7.2
-7.4
-7.6
-7.8
-8
-8.2
-8.4
-8.6
0
10000
20000
30000
40000
50000
60000

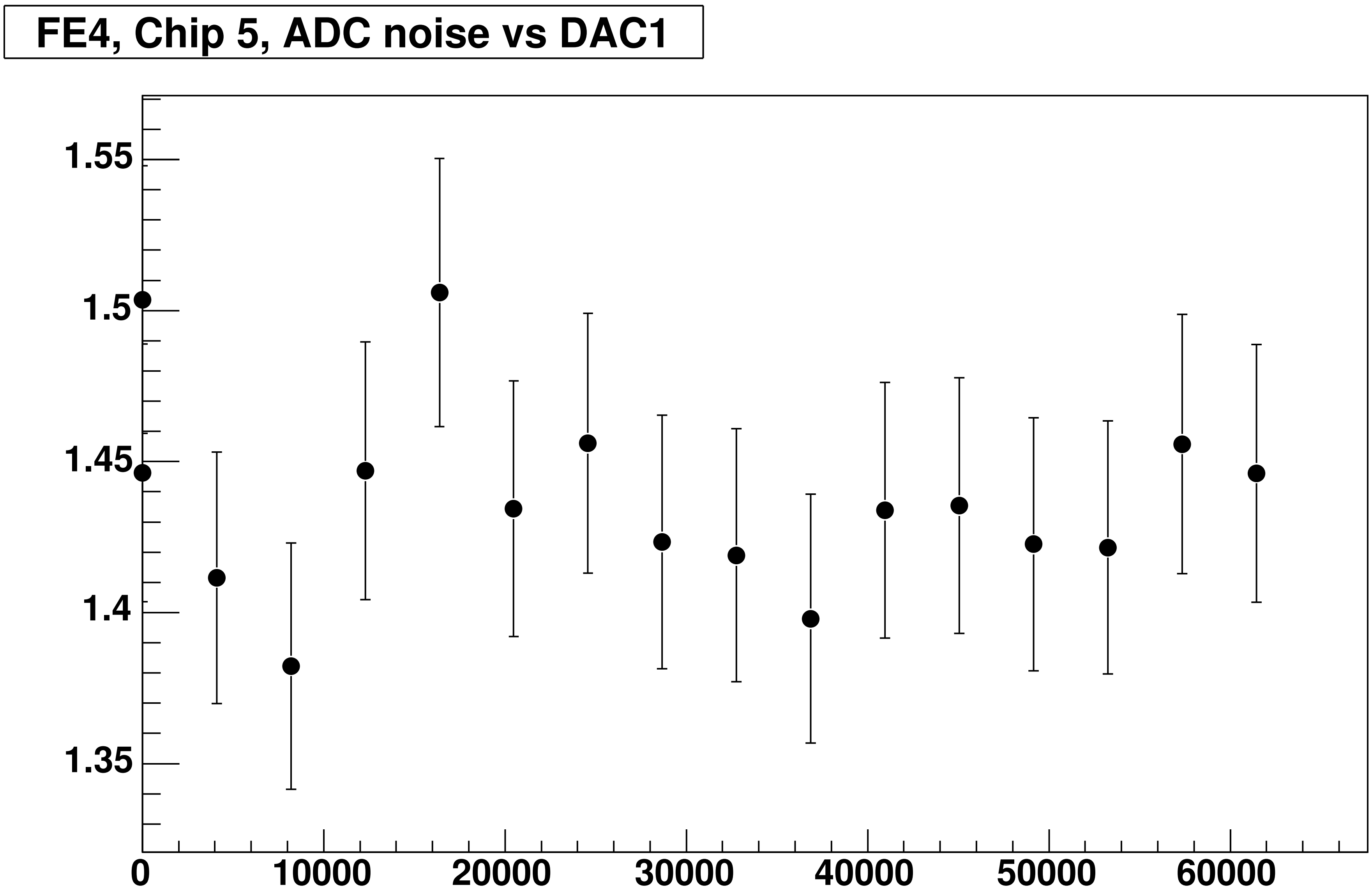


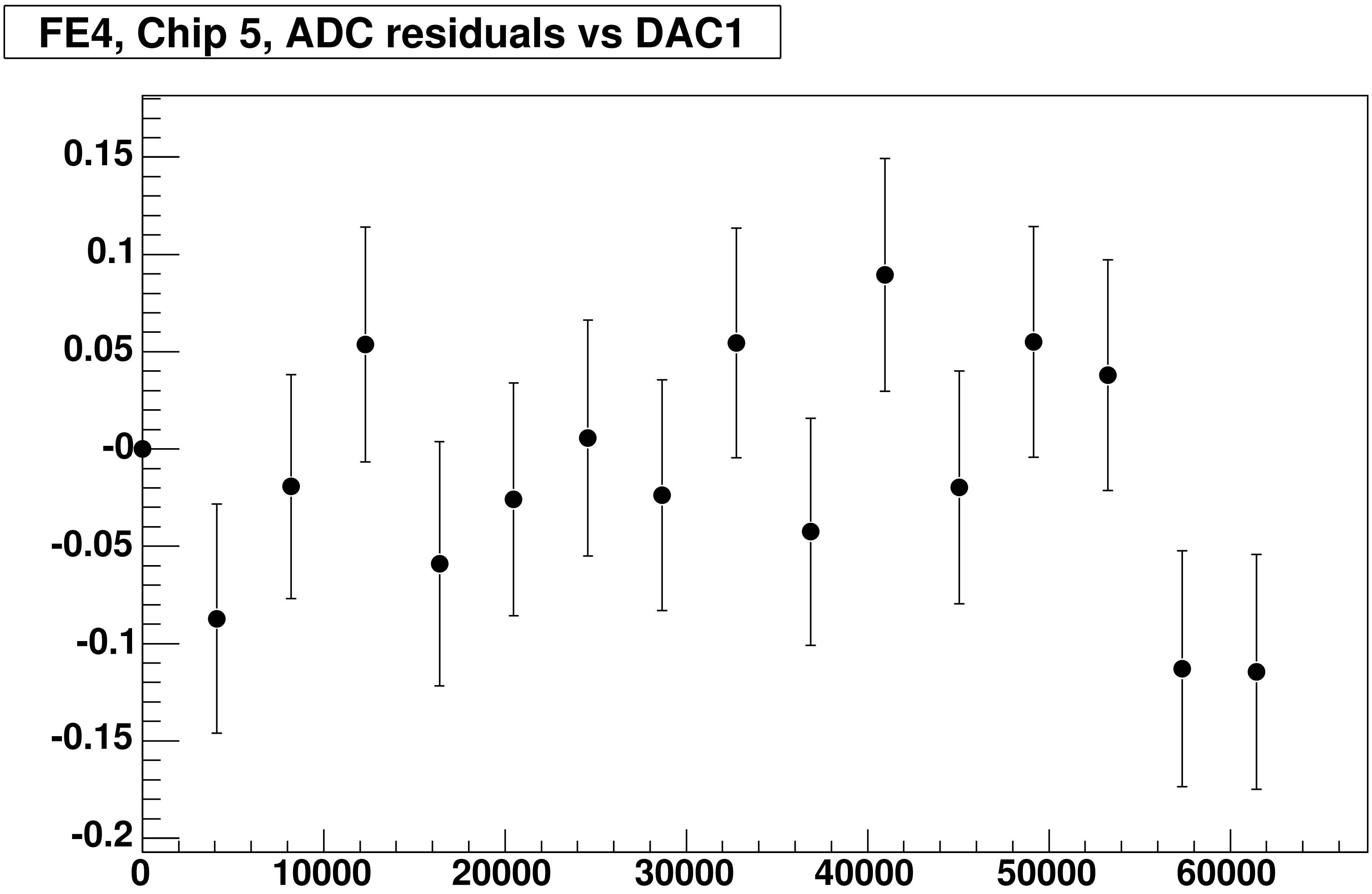
FE4, Chip 5, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE4, Chip 5, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

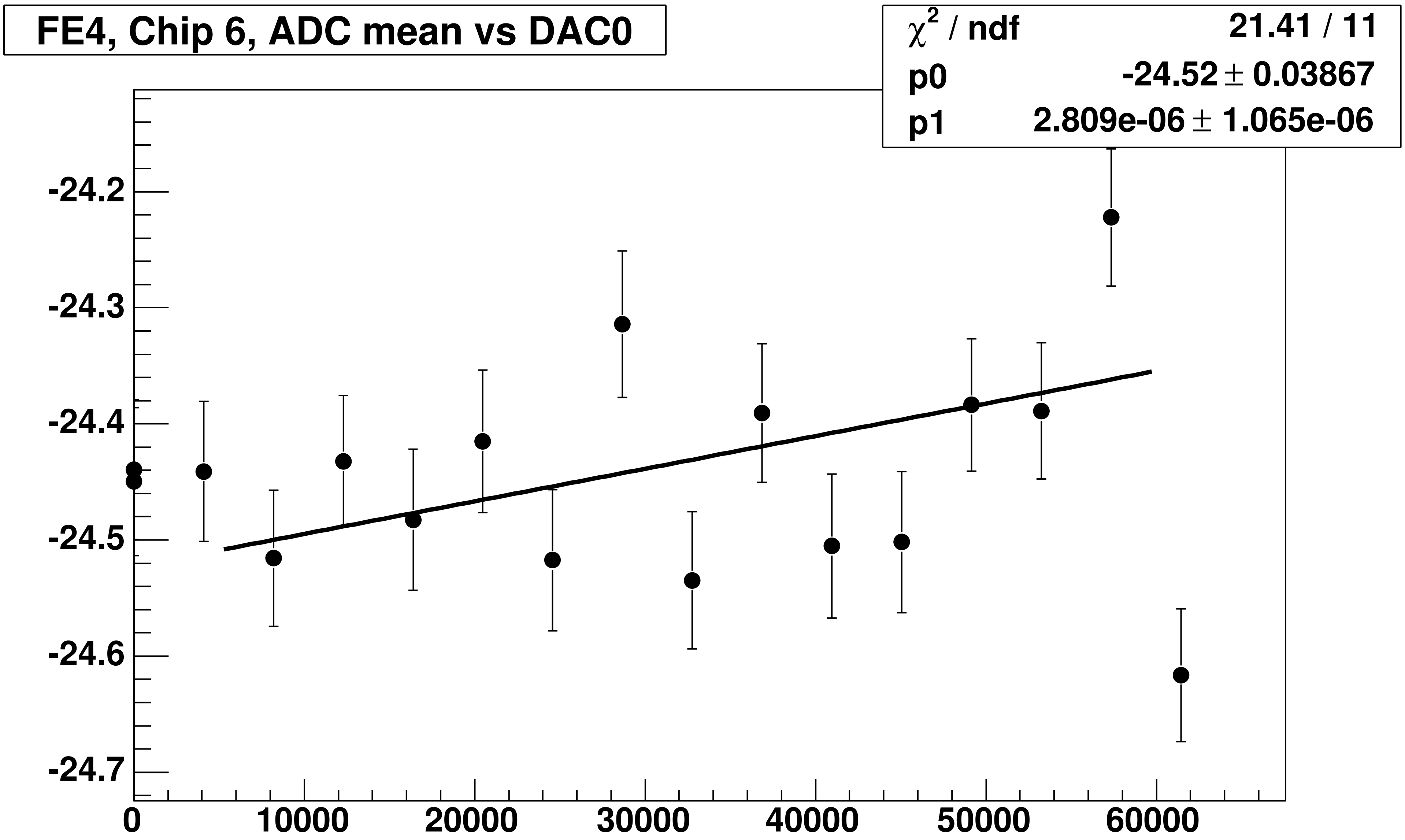


FE4, Chip 5, ADC mean vs DAC1
χ^2 / ndf 10.63 / 11
p0 -8.434 ± 0.0391
p1 -3.747e-08 ± 1.08e-06
-8.3
-8.35
-8.4
-8.45
-8.5
-8.55
-8.6
0
10000
20000
30000
40000
50000
60000

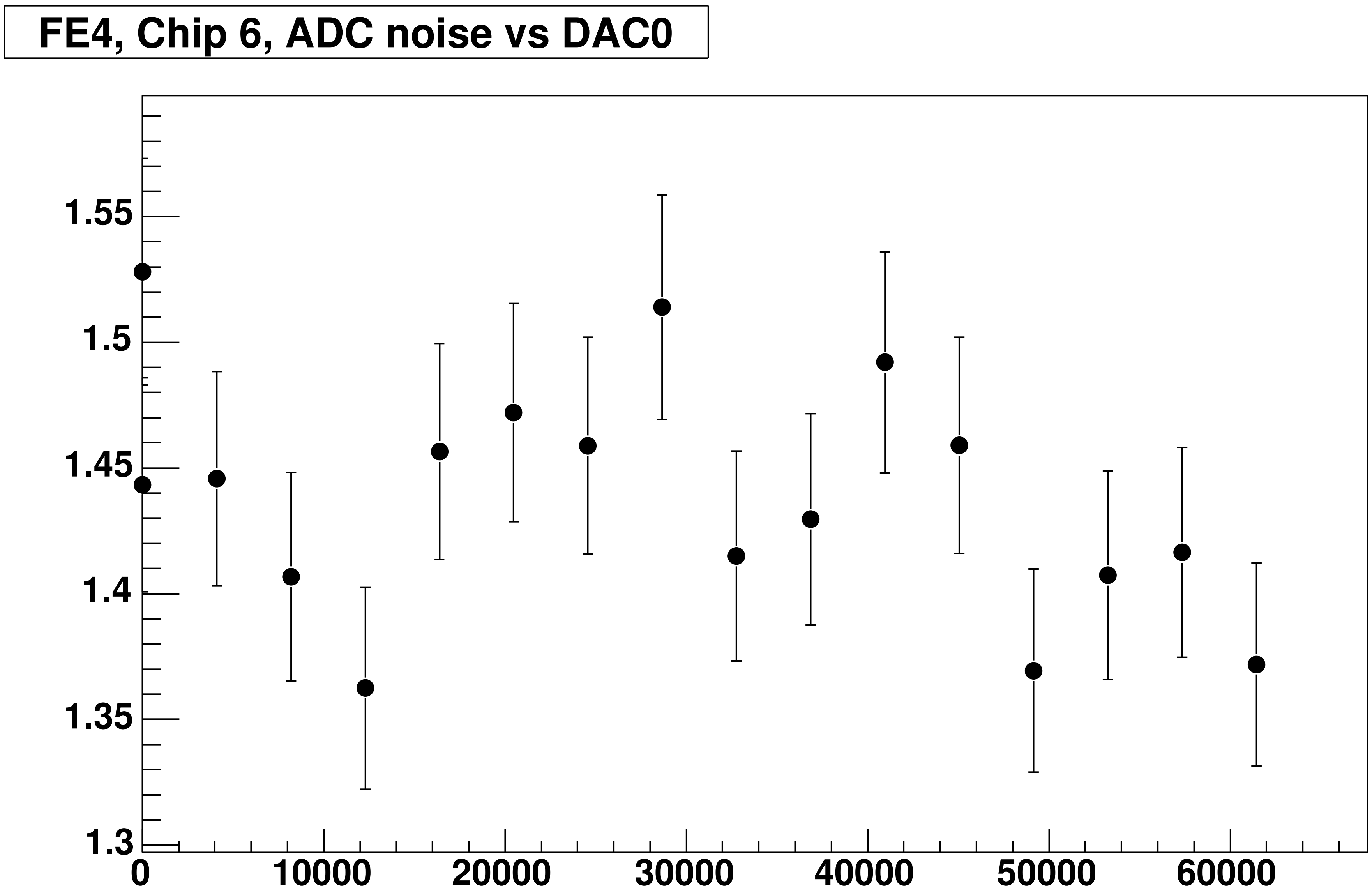

FE4, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

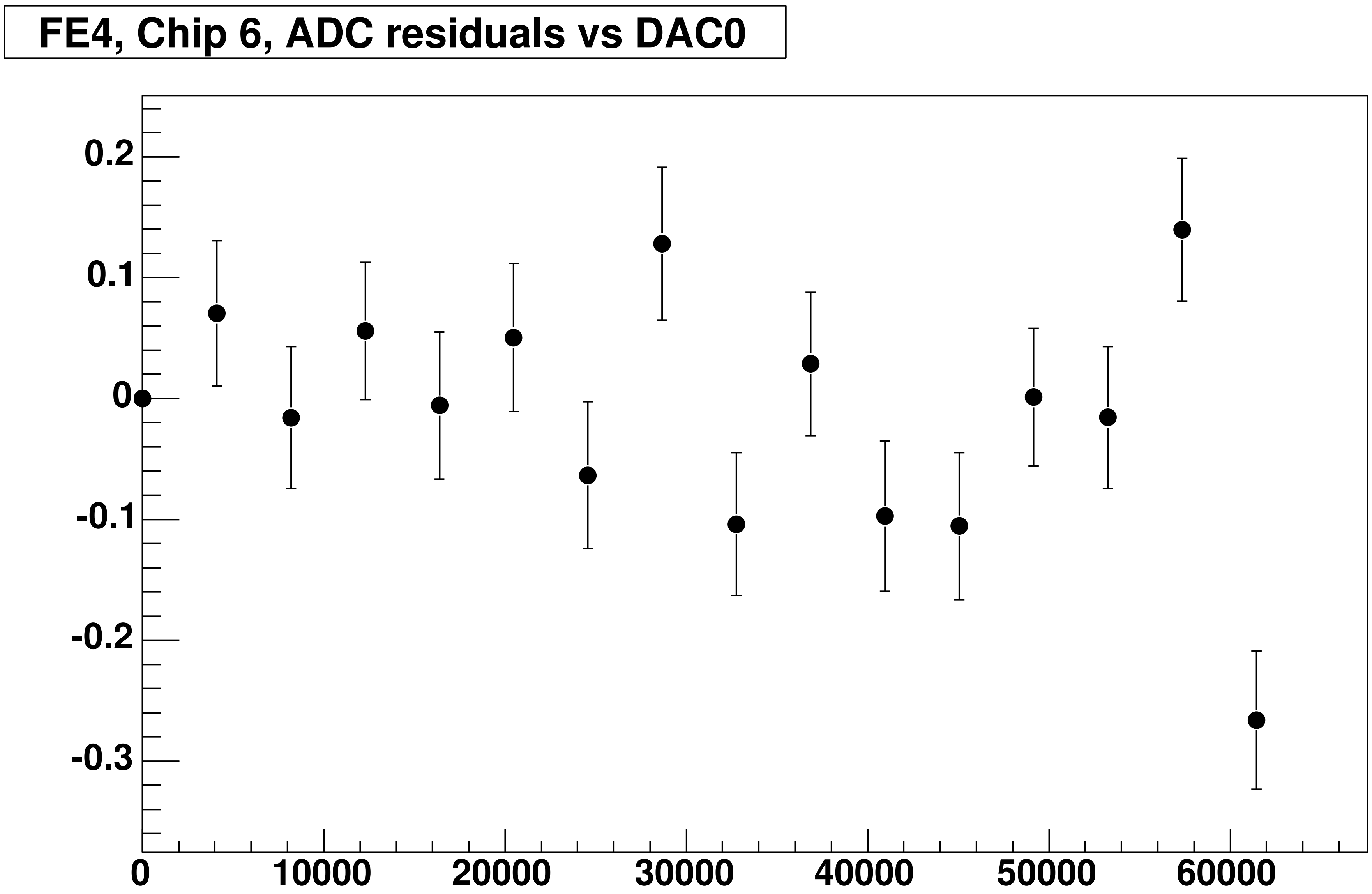


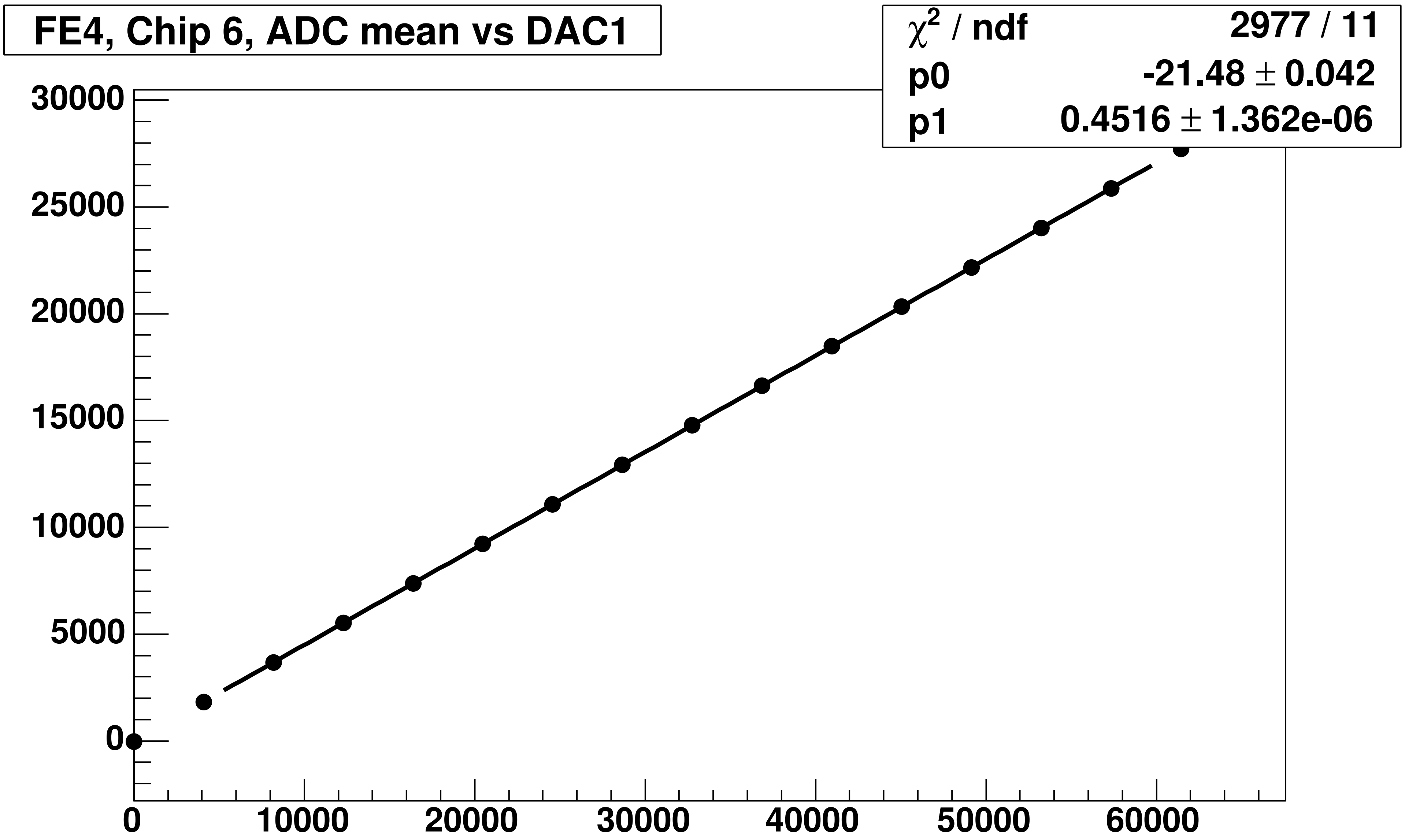
FE4, Chip 5, ADC residuals vs DAC1
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

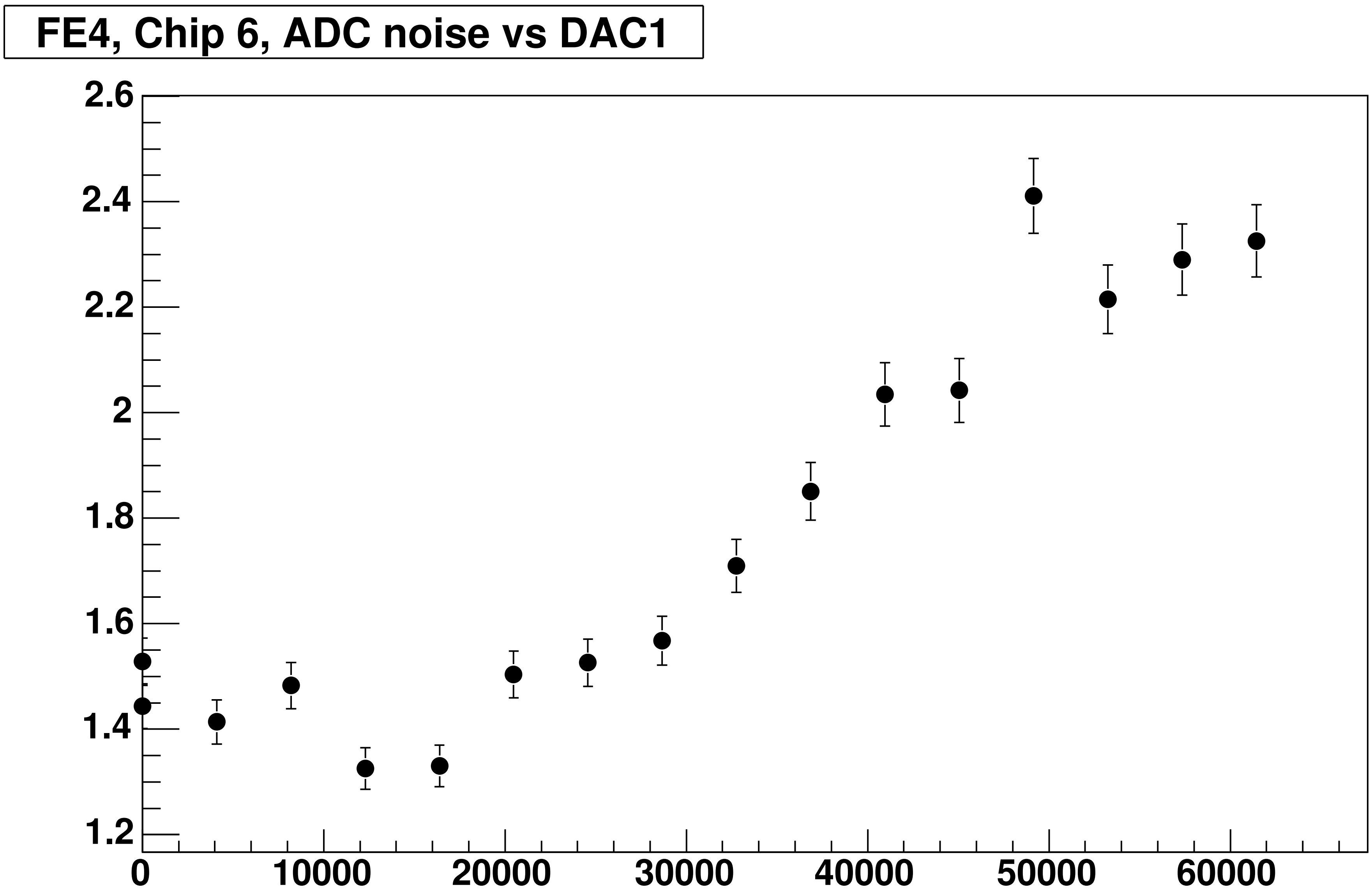


FE4, Chip 6, ADC mean vs DAC0
χ^2 / ndf 21.41 / 11
p0 -24.52 ± 0.03867
p1 2.809e-06 ± 1.065e-06
-24.2
-24.3
-24.4
-24.5
-24.6
-24.7
0
10000
20000
30000
40000
50000
60000

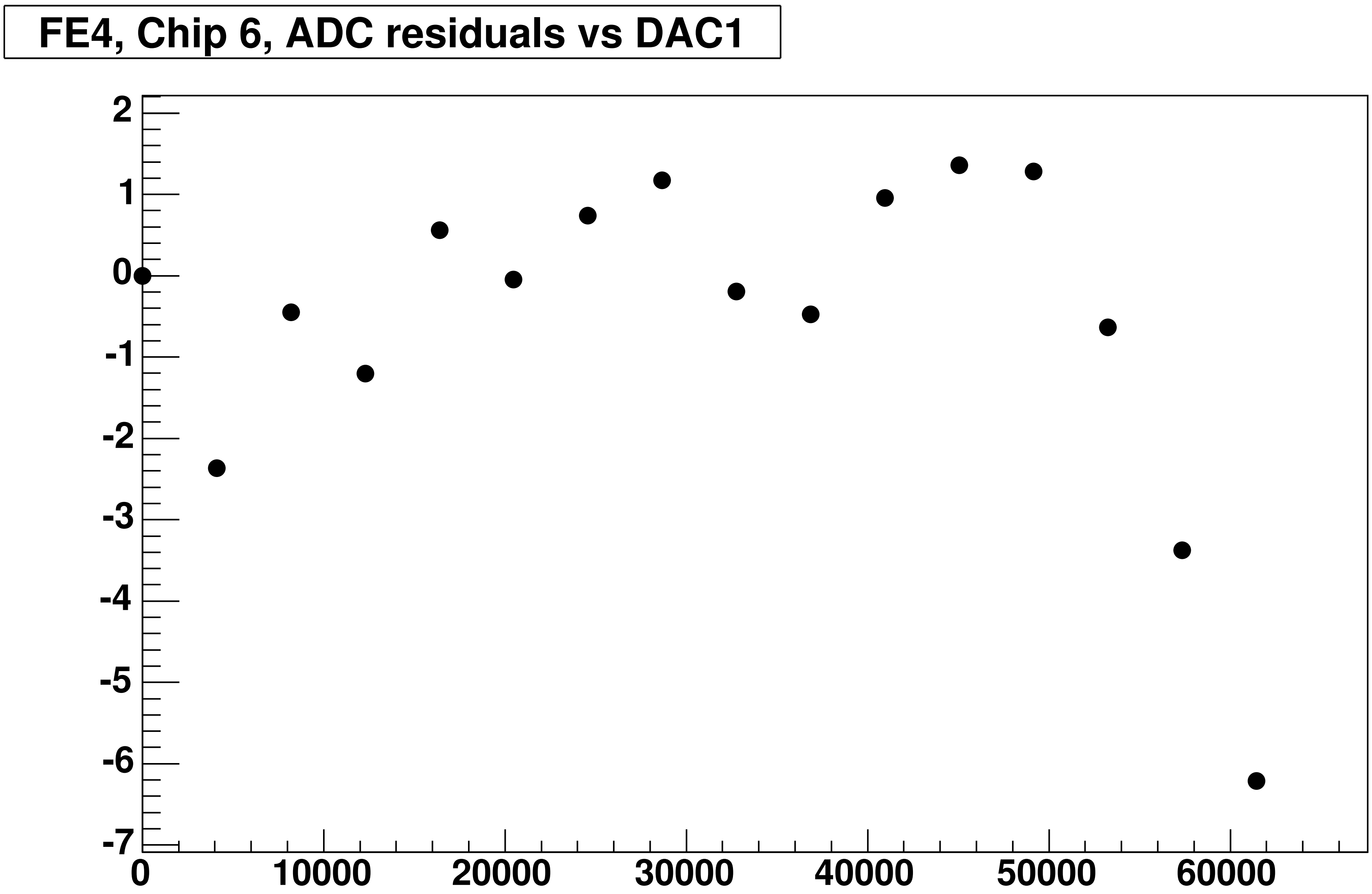

FE4, Chip 6, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

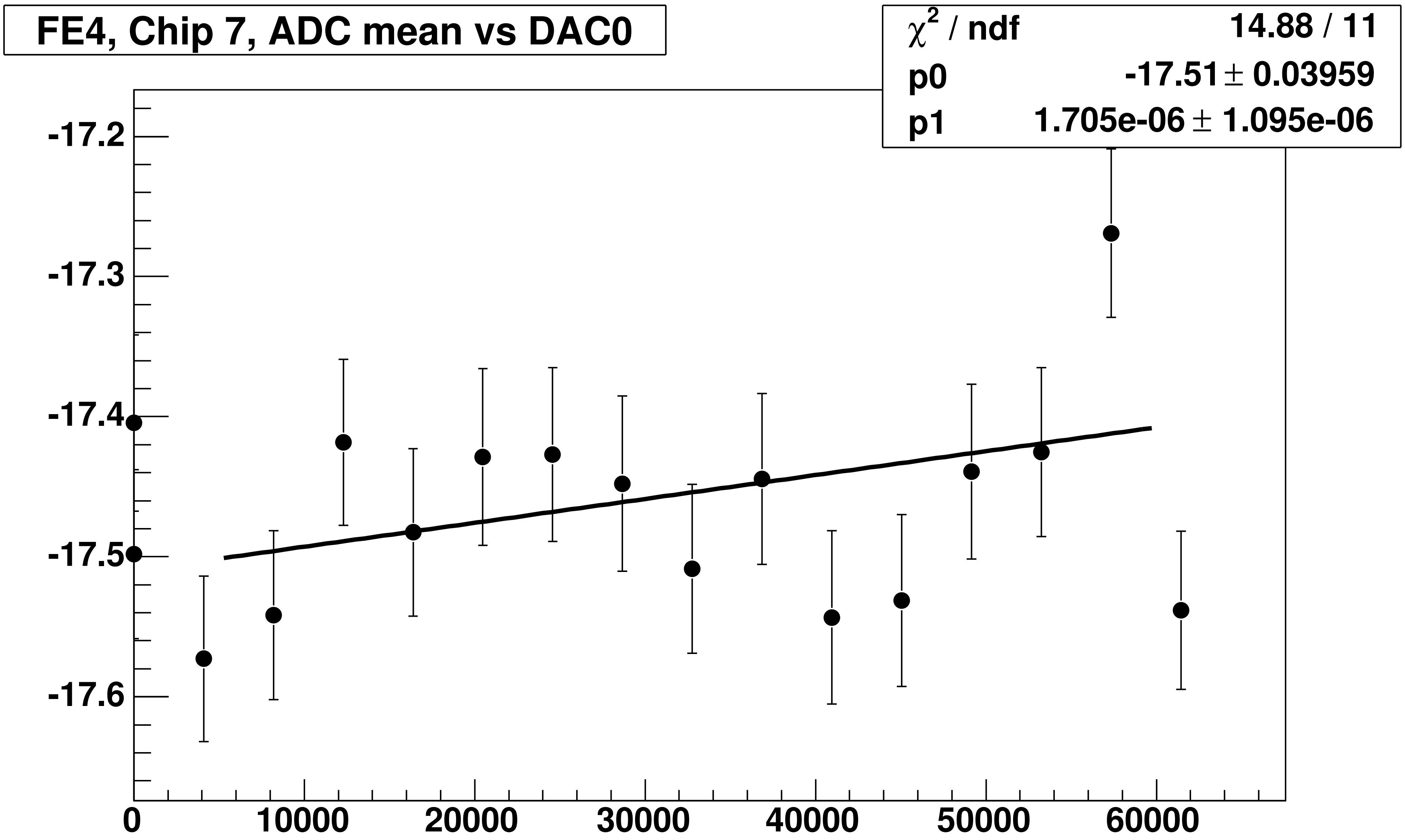

FE4, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

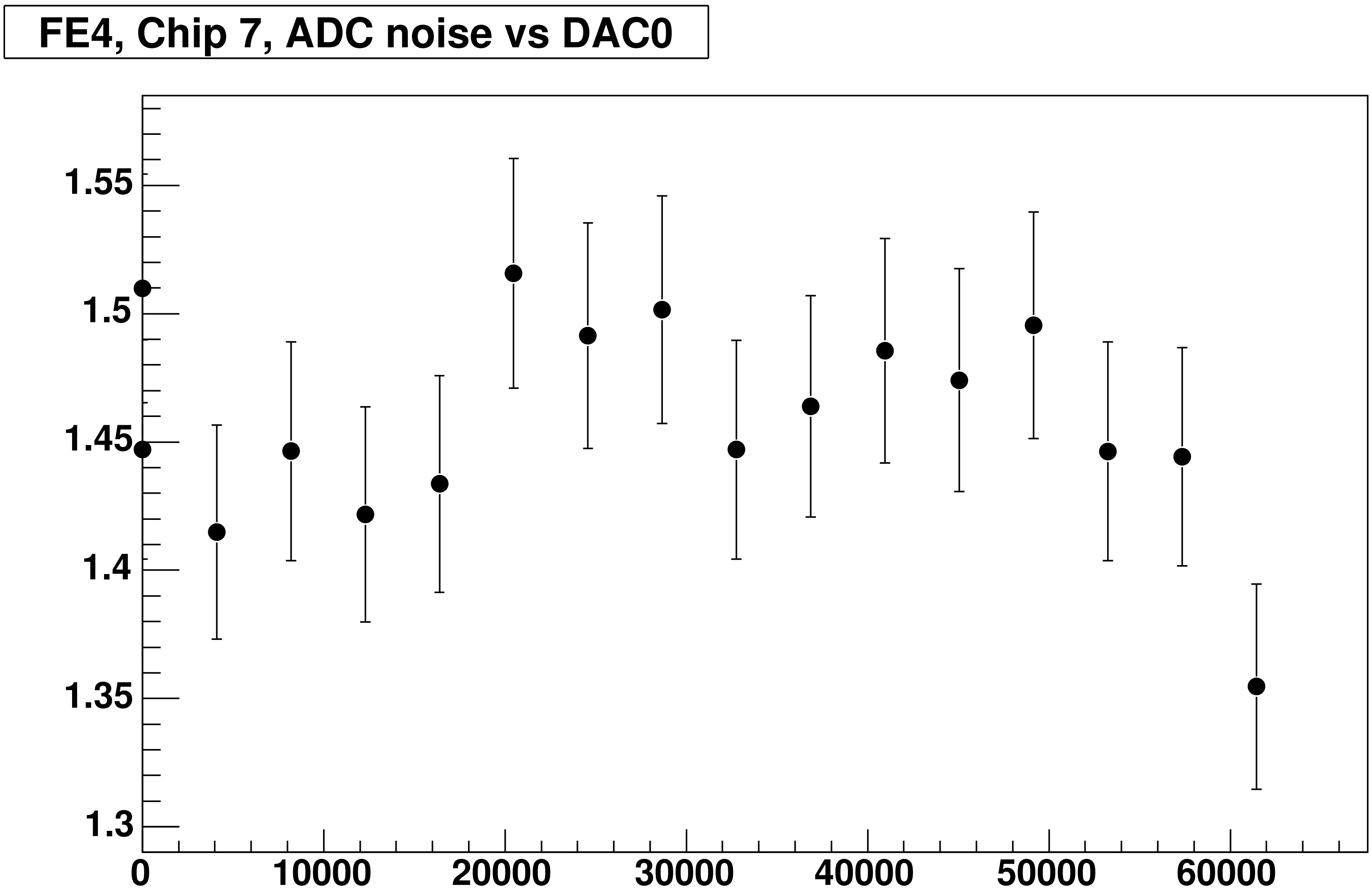

FE4, Chip 6, ADC mean vs DAC1
χ^2 / ndf 2977 / 11
p0 -21.48 ± 0.042
p1 0.4516 ± 1.362e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

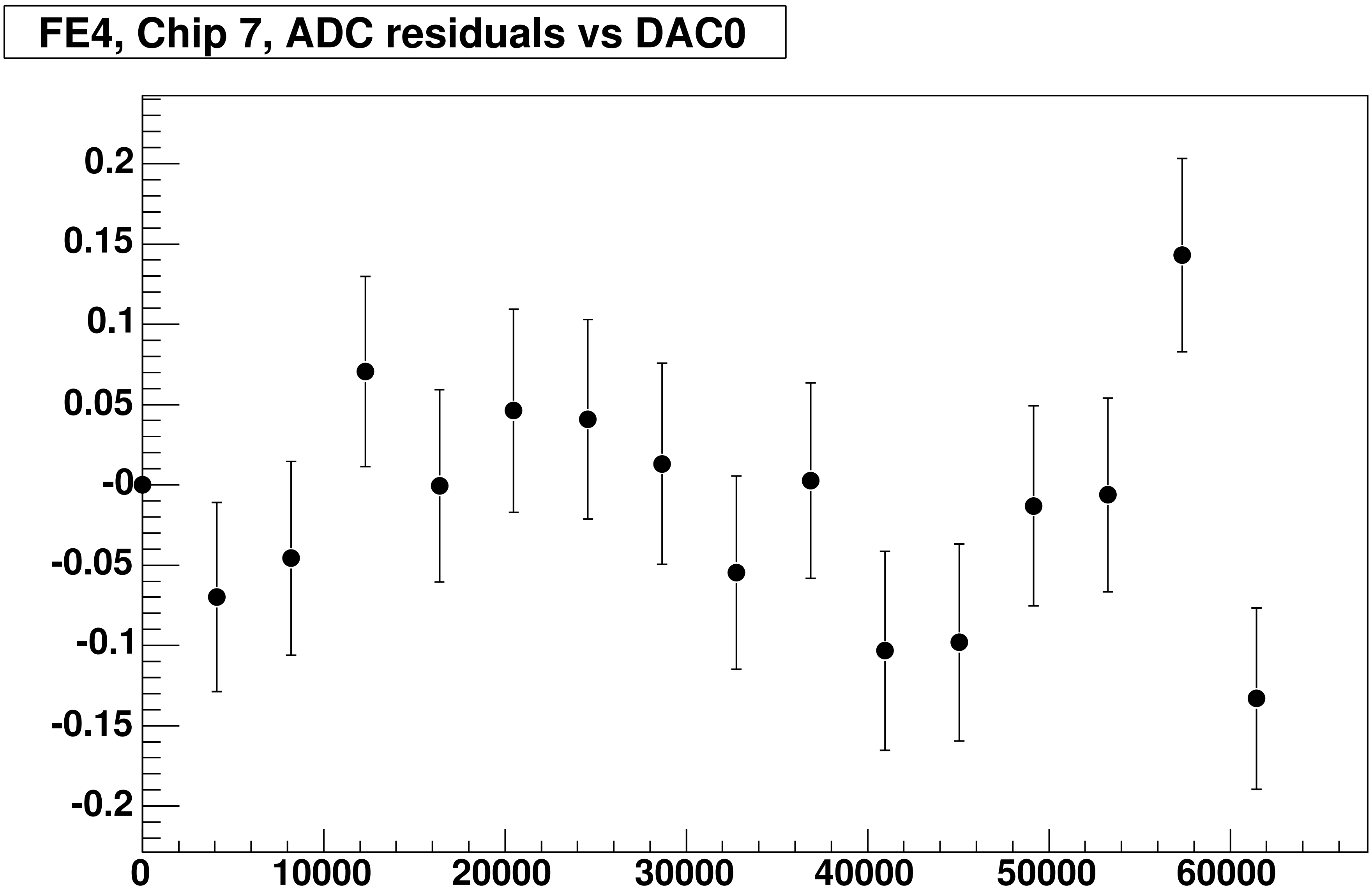


FE4, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

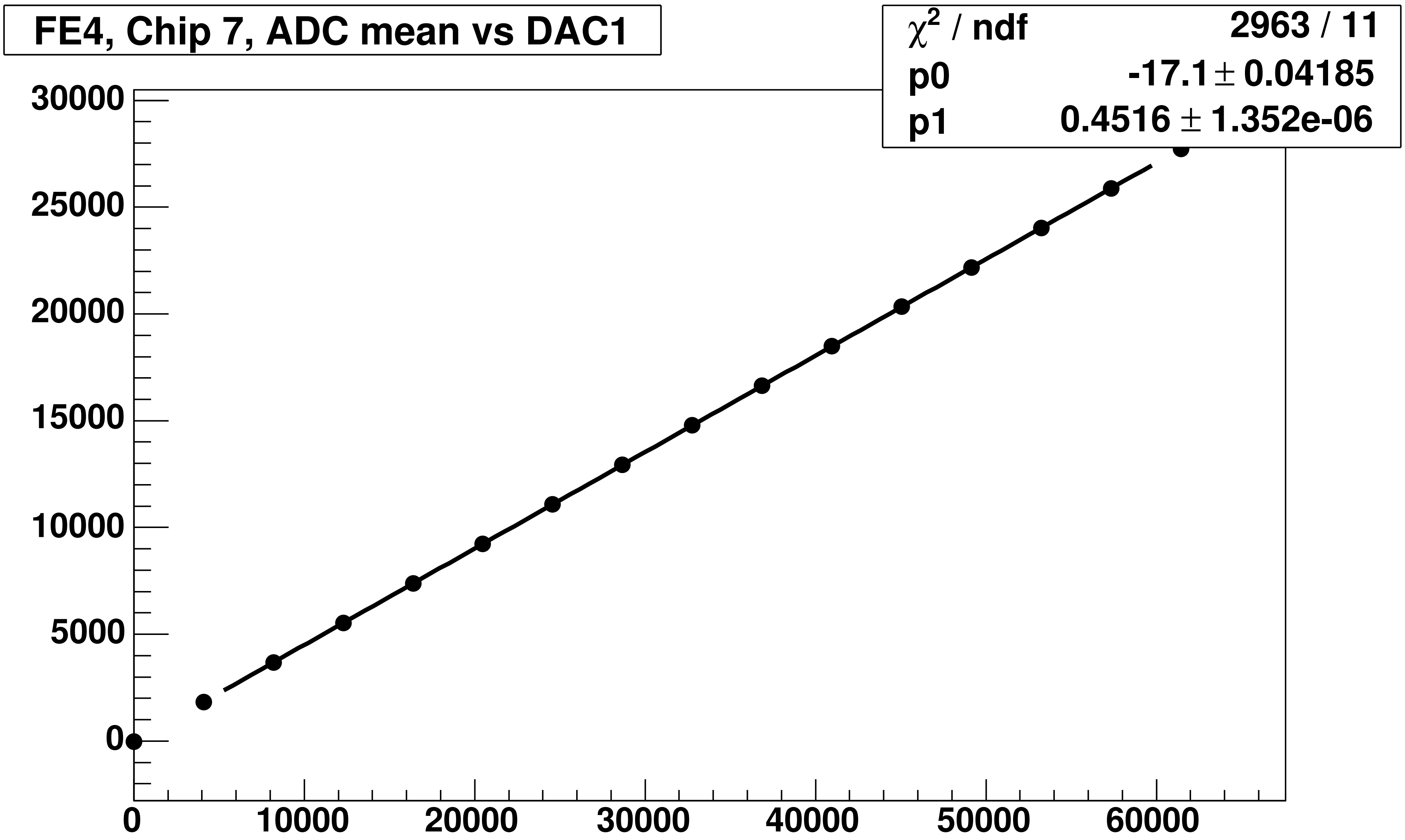

FE4, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

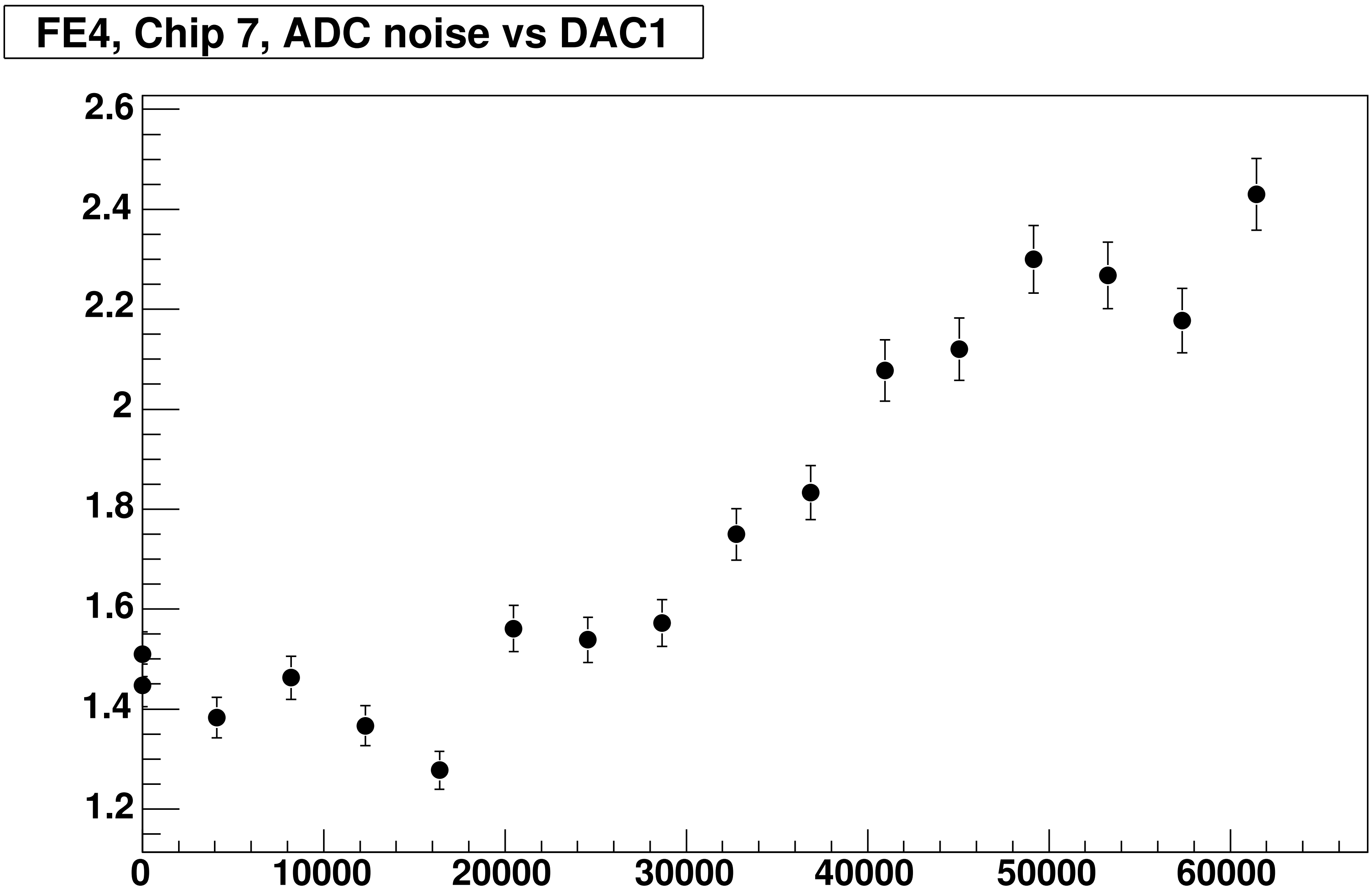

FE4, Chip 7, ADC mean vs DAC0
χ^2 / ndf 14.88 / 11
p0 -17.51 ± 0.03959
p1 1.705e-06 ± 1.095e-06
-17.2
-17.3
-17.4
-17.5
-17.6
0
10000
20000
30000
40000
50000
60000


FE4, Chip 7, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

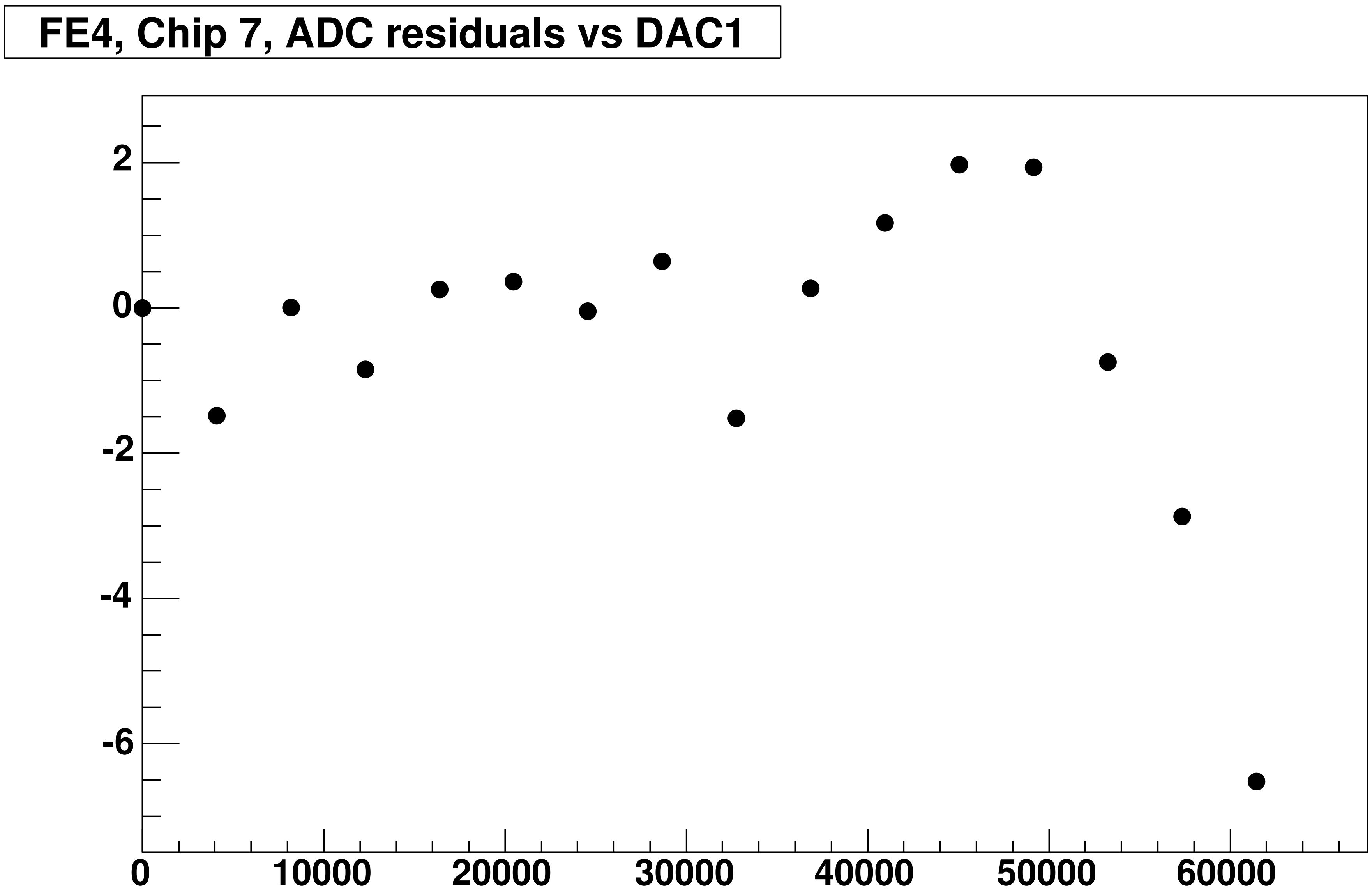


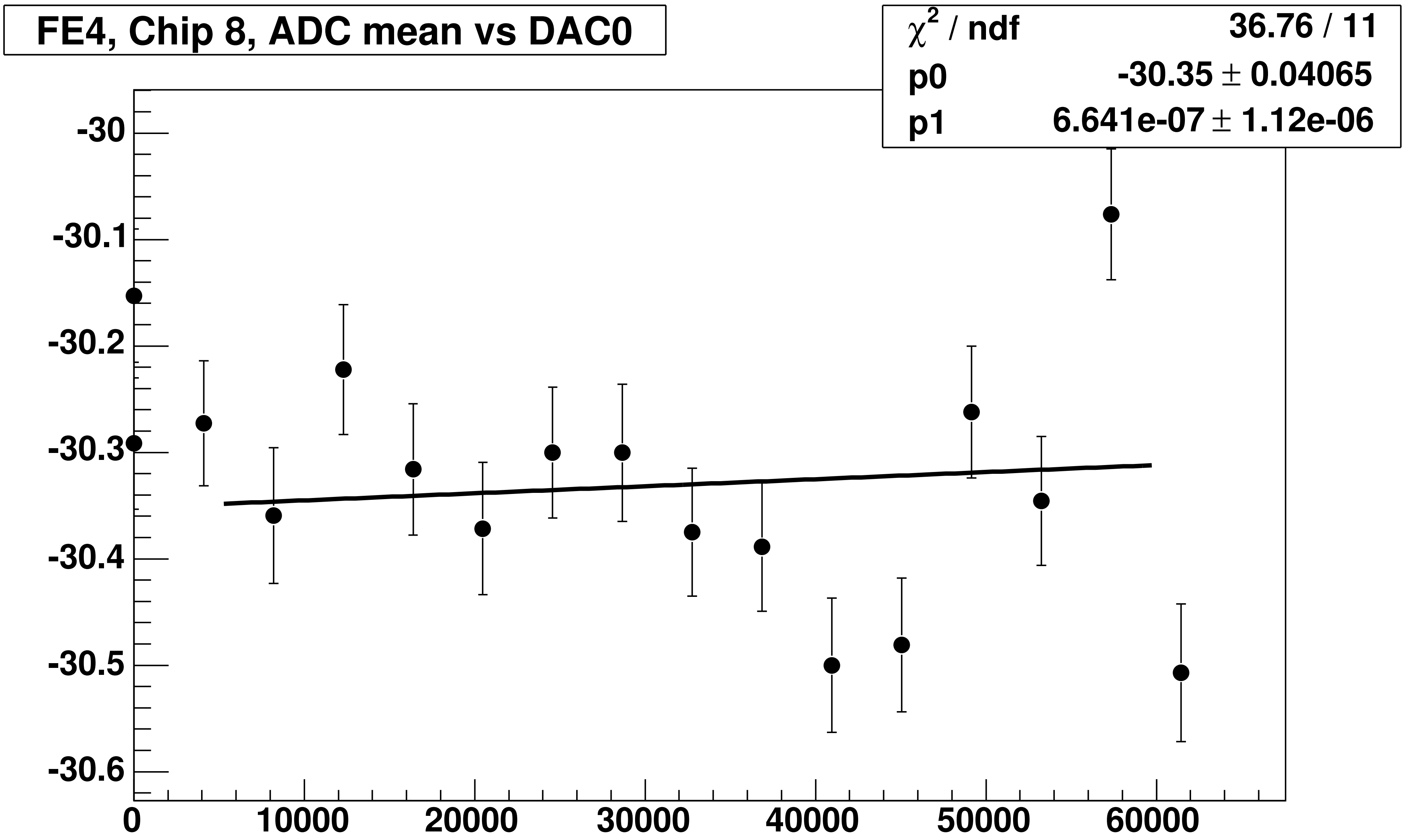
FE4, Chip 7, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE4, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2963 / 11
p0 -17.1 ± 0.04185
p1 0.4516 ± 1.352e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

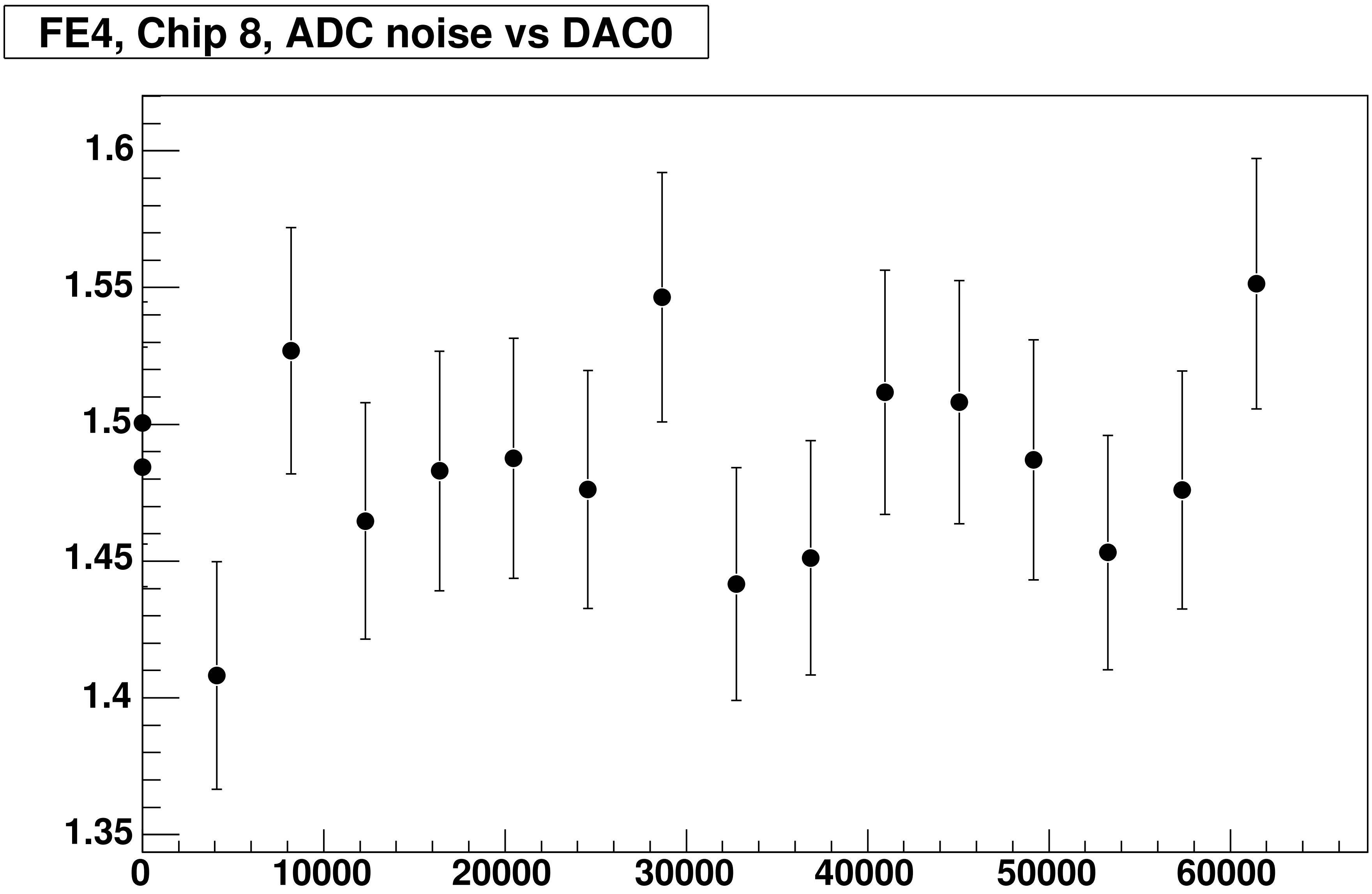


FE4, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

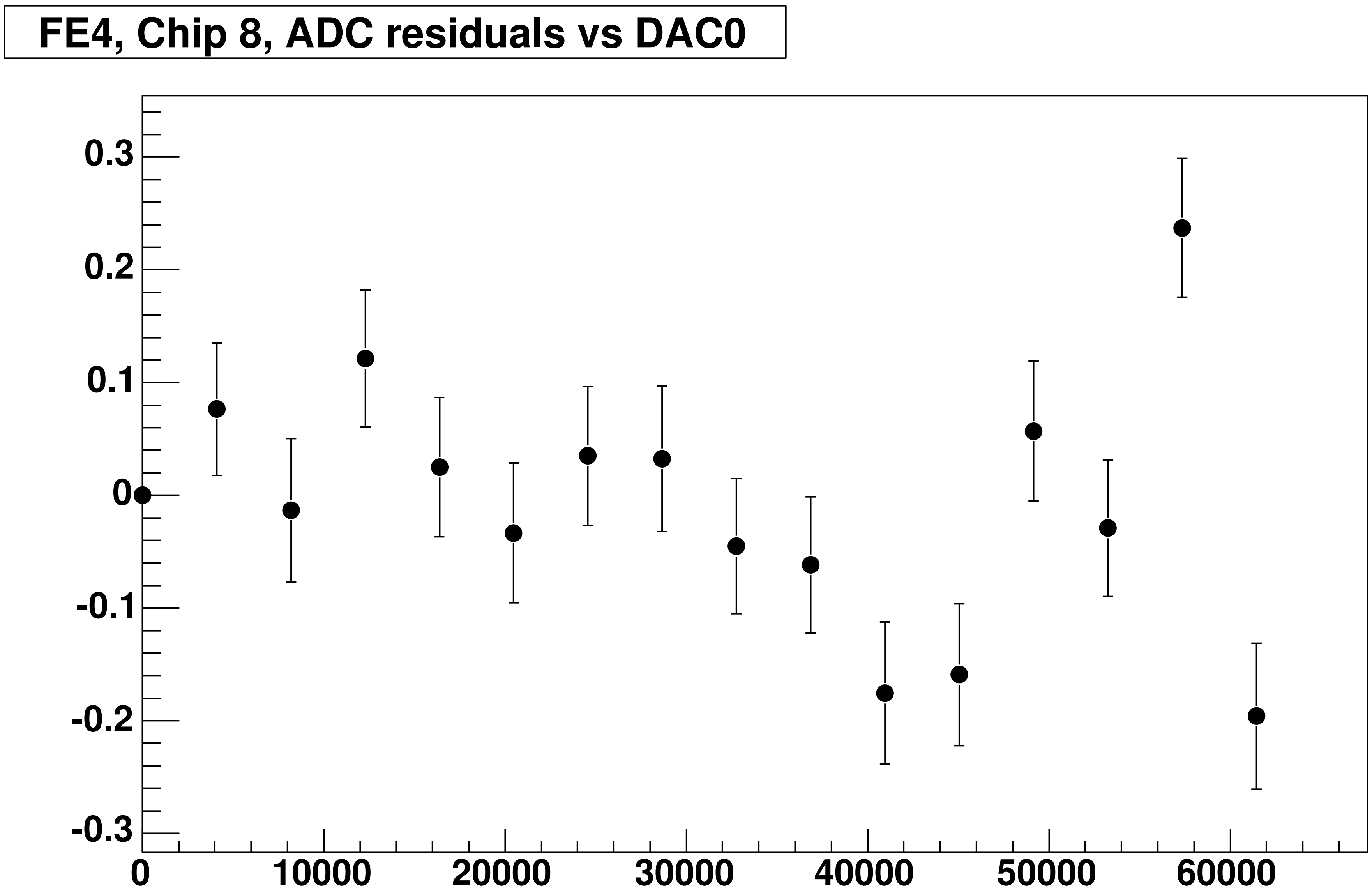

FE4, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

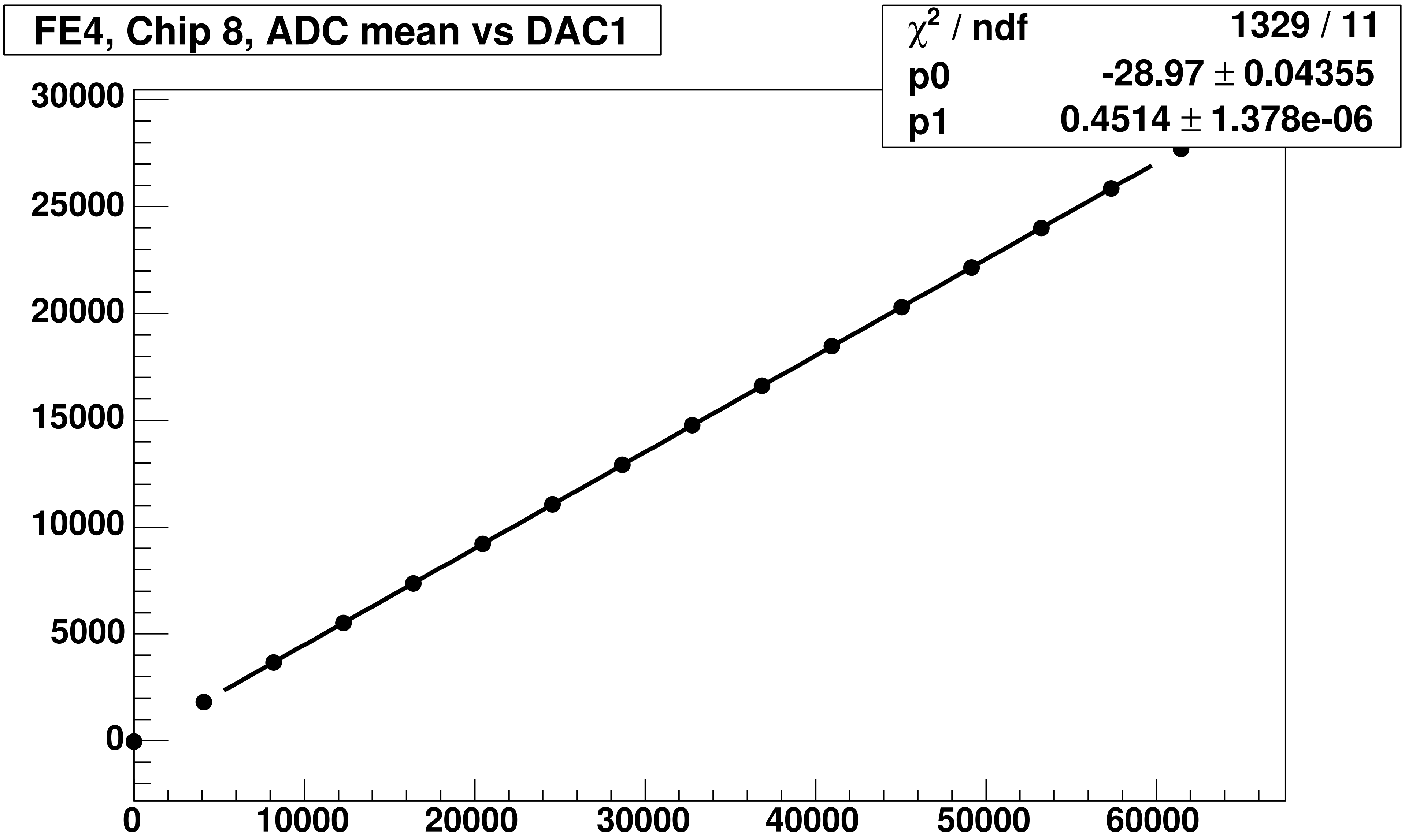


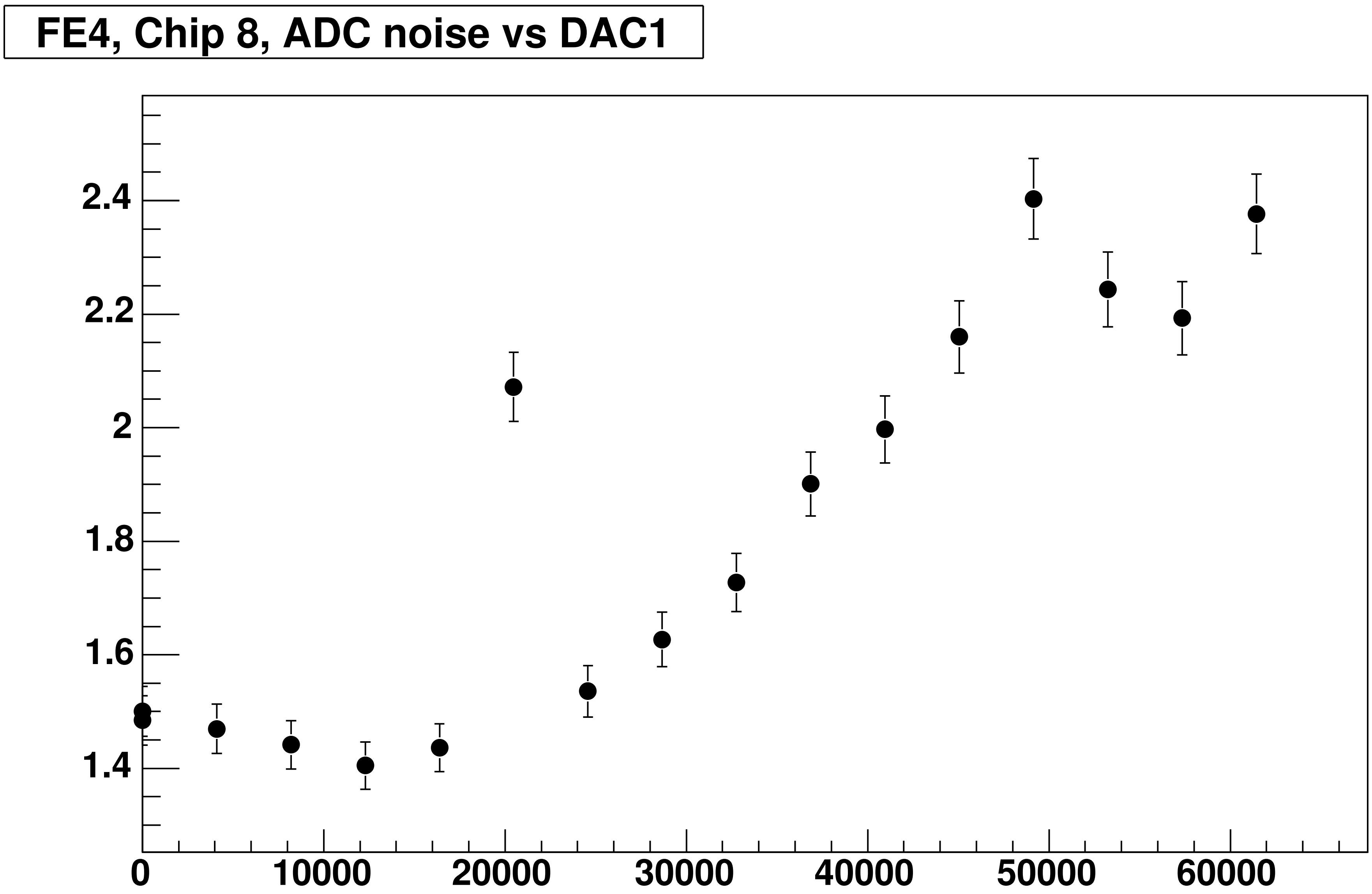
FE4, Chip 8, ADC mean vs DAC0
χ^2 / ndf 36.76 / 11
p0 -30.35 ± 0.04065
p1 6.641e-07 ± 1.12e-06
-30
-30.1
-30.2
-30.3
-30.4
-30.5
-30.6
0
10000
20000
30000
40000
50000
60000

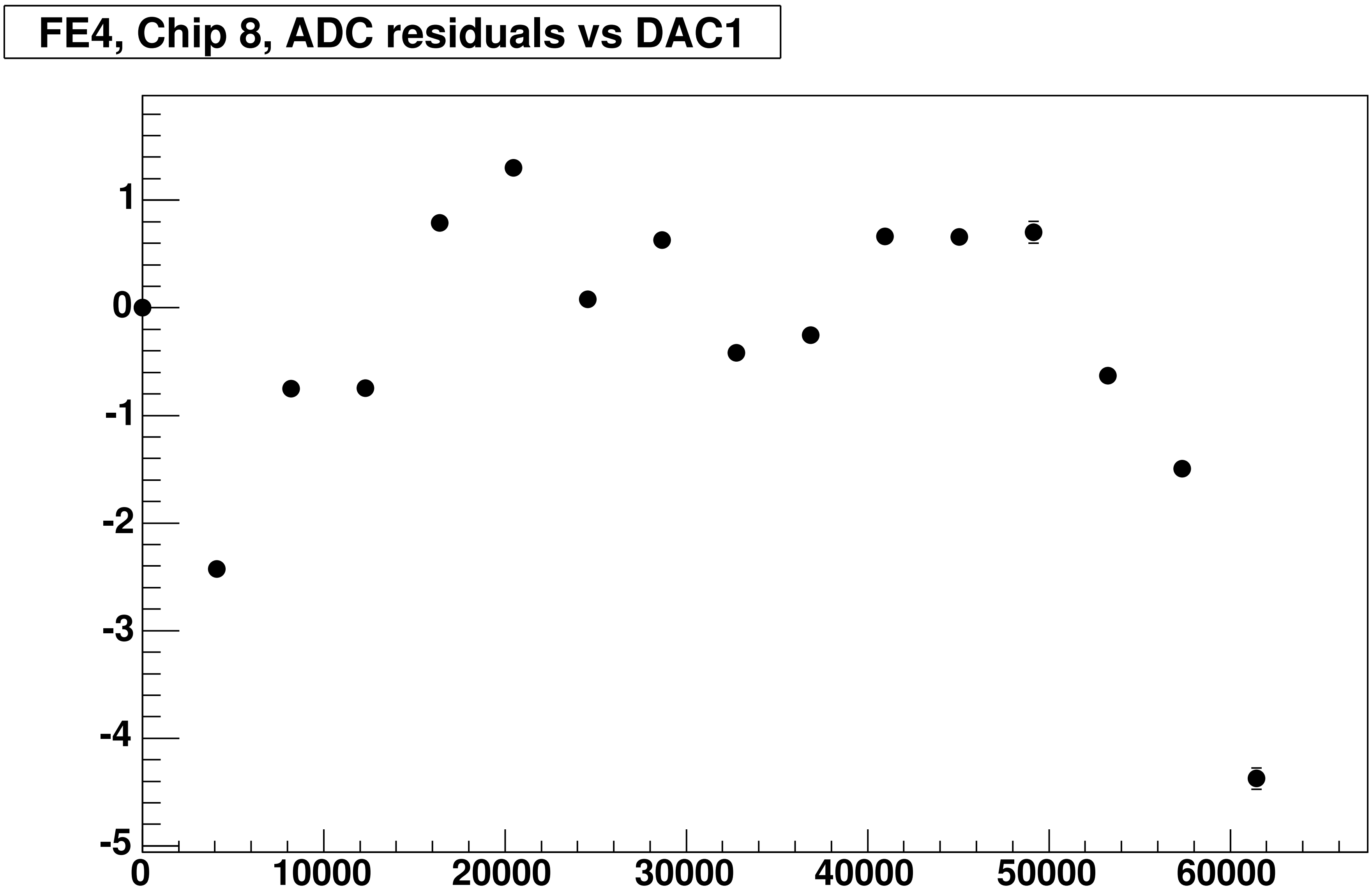


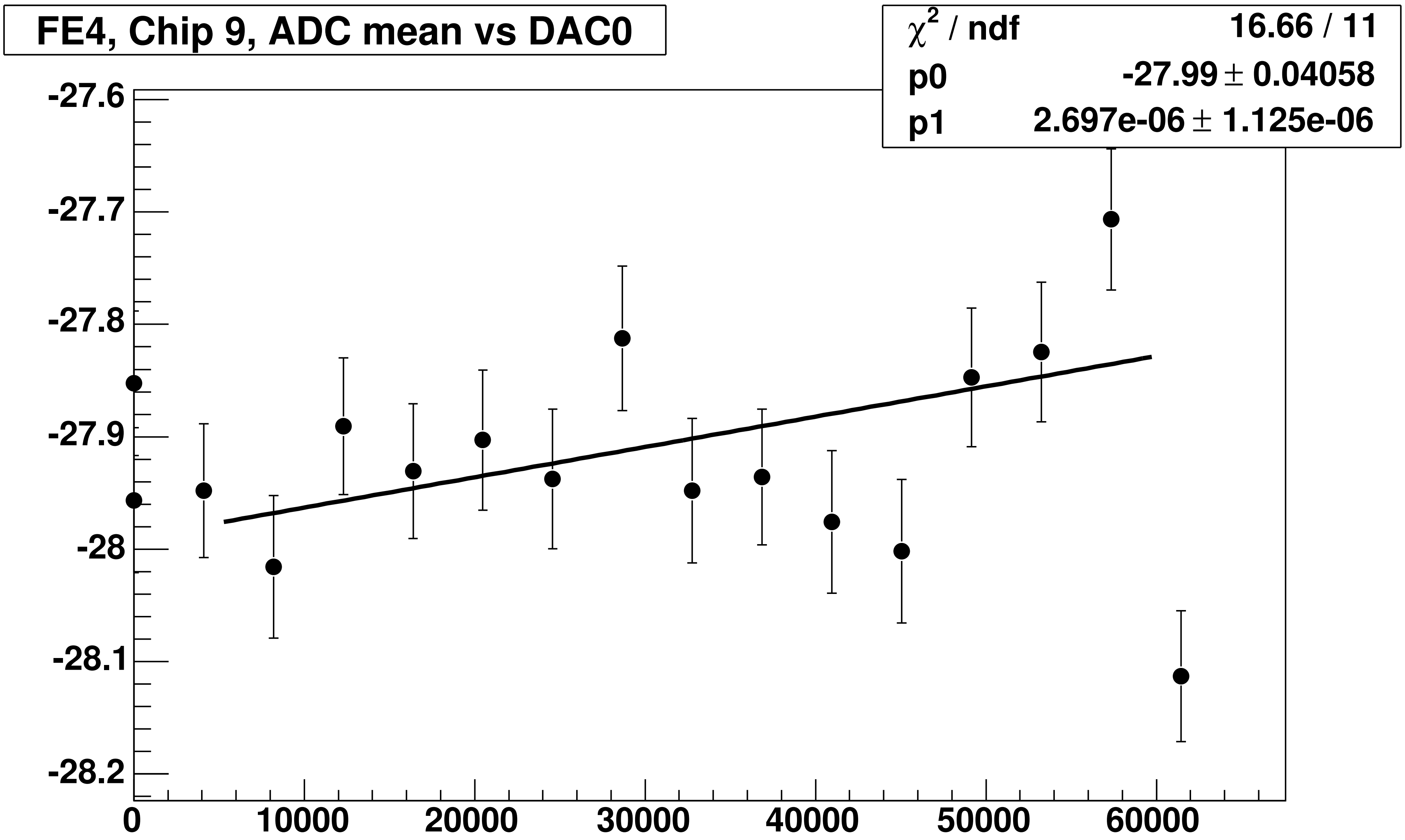
FE4, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE4, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

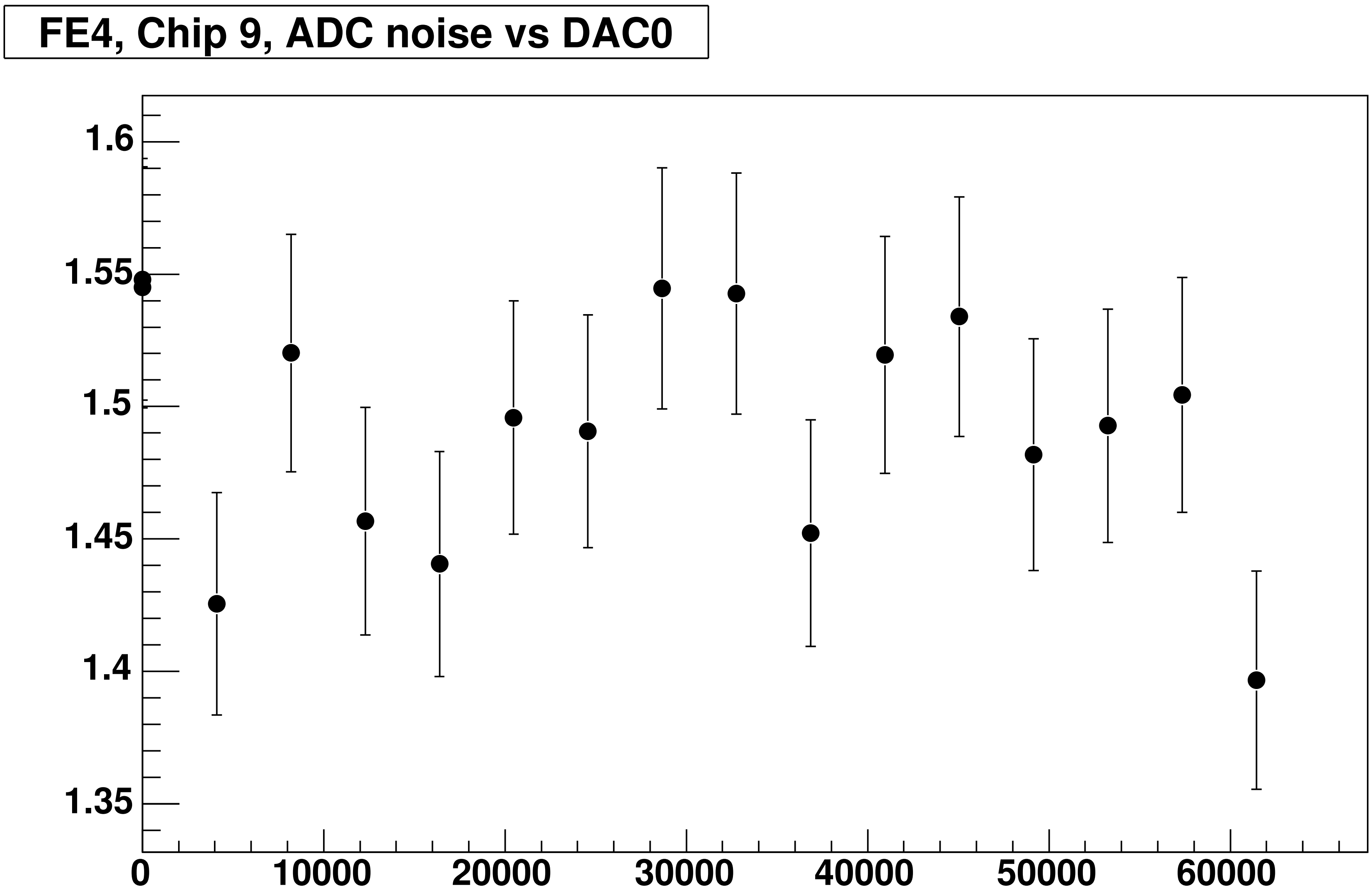

FE4, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1329 / 11
p0 -28.97 ± 0.04355
p1 0.4514 ± 1.378e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

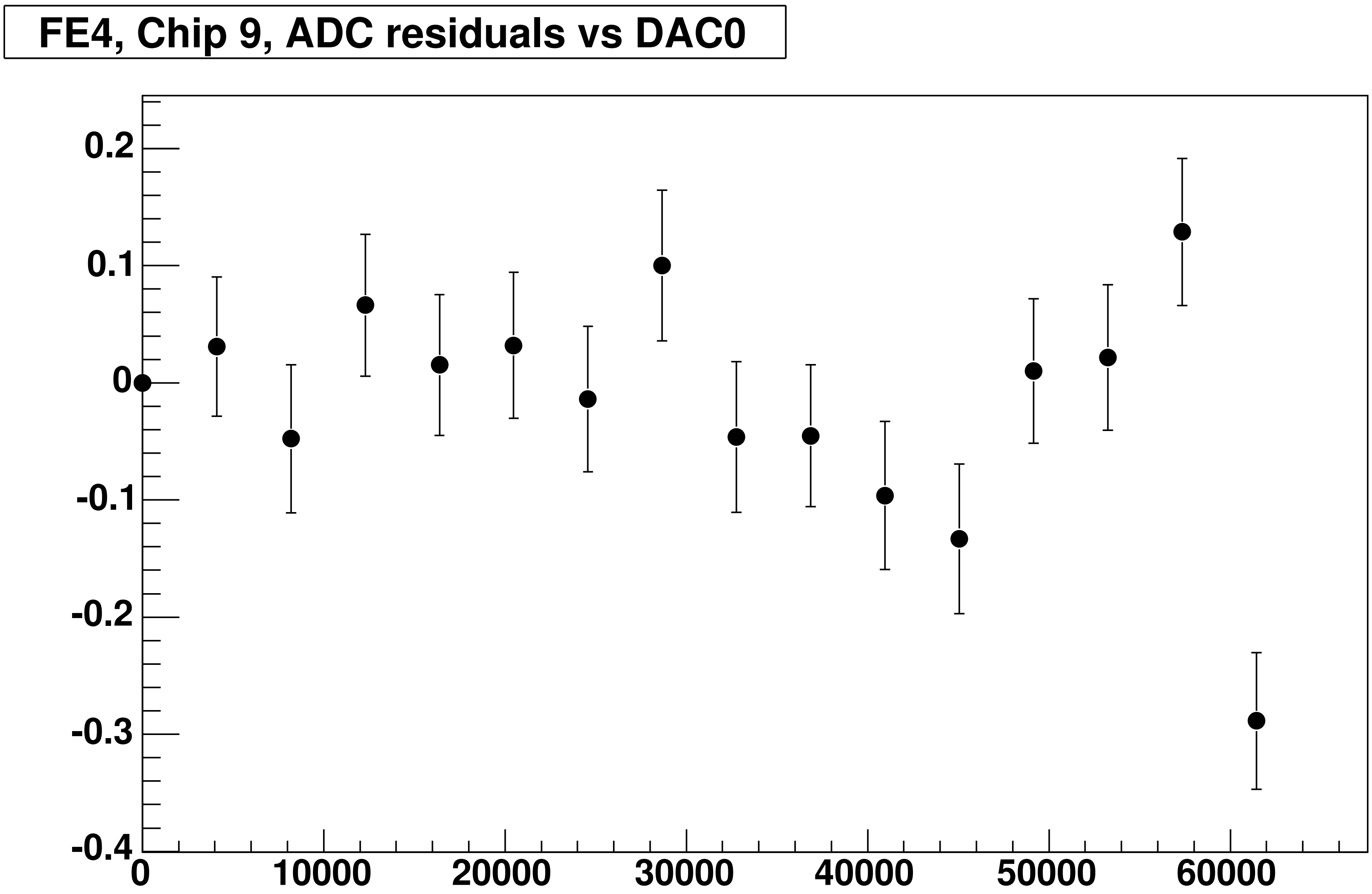

FE4, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE4, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

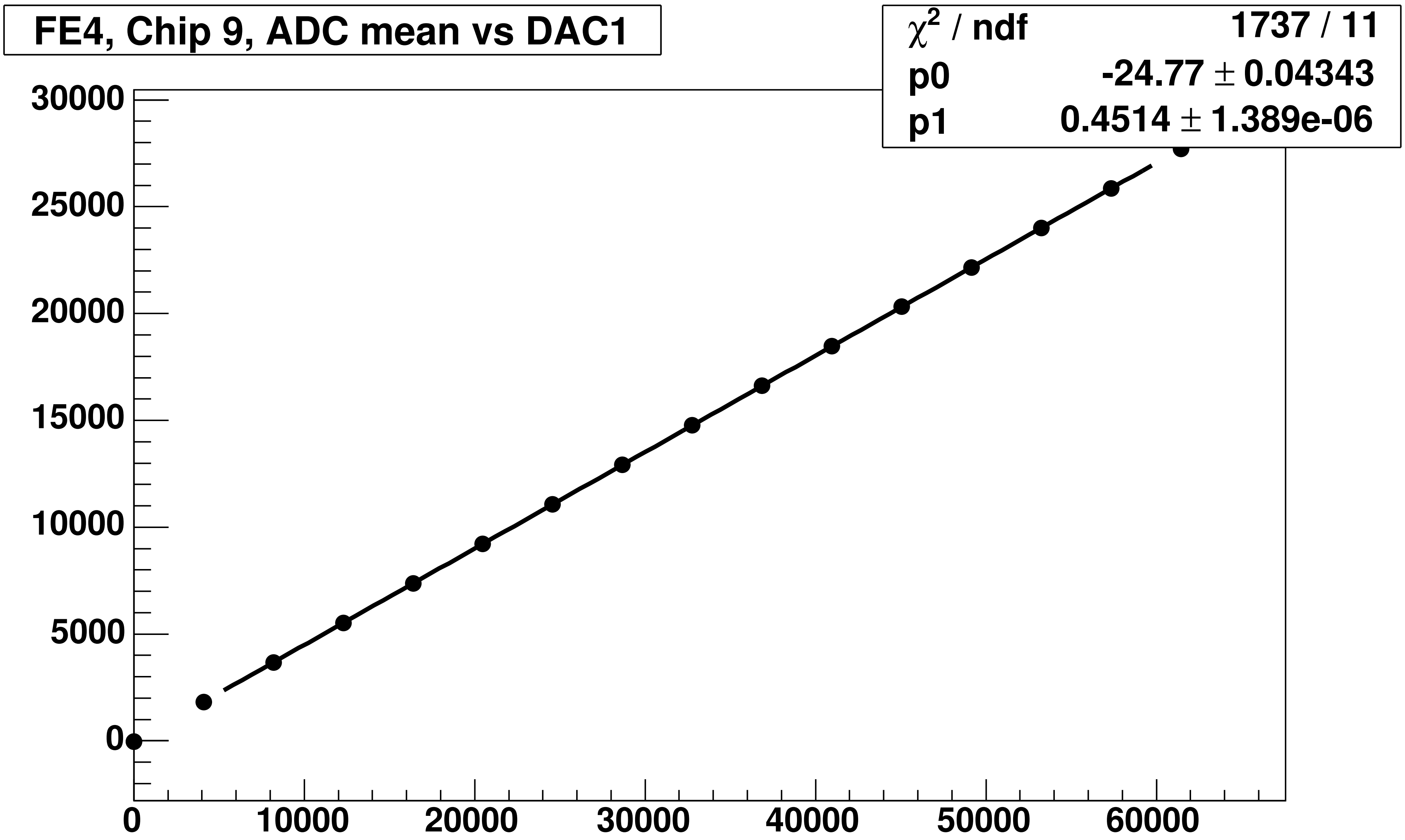


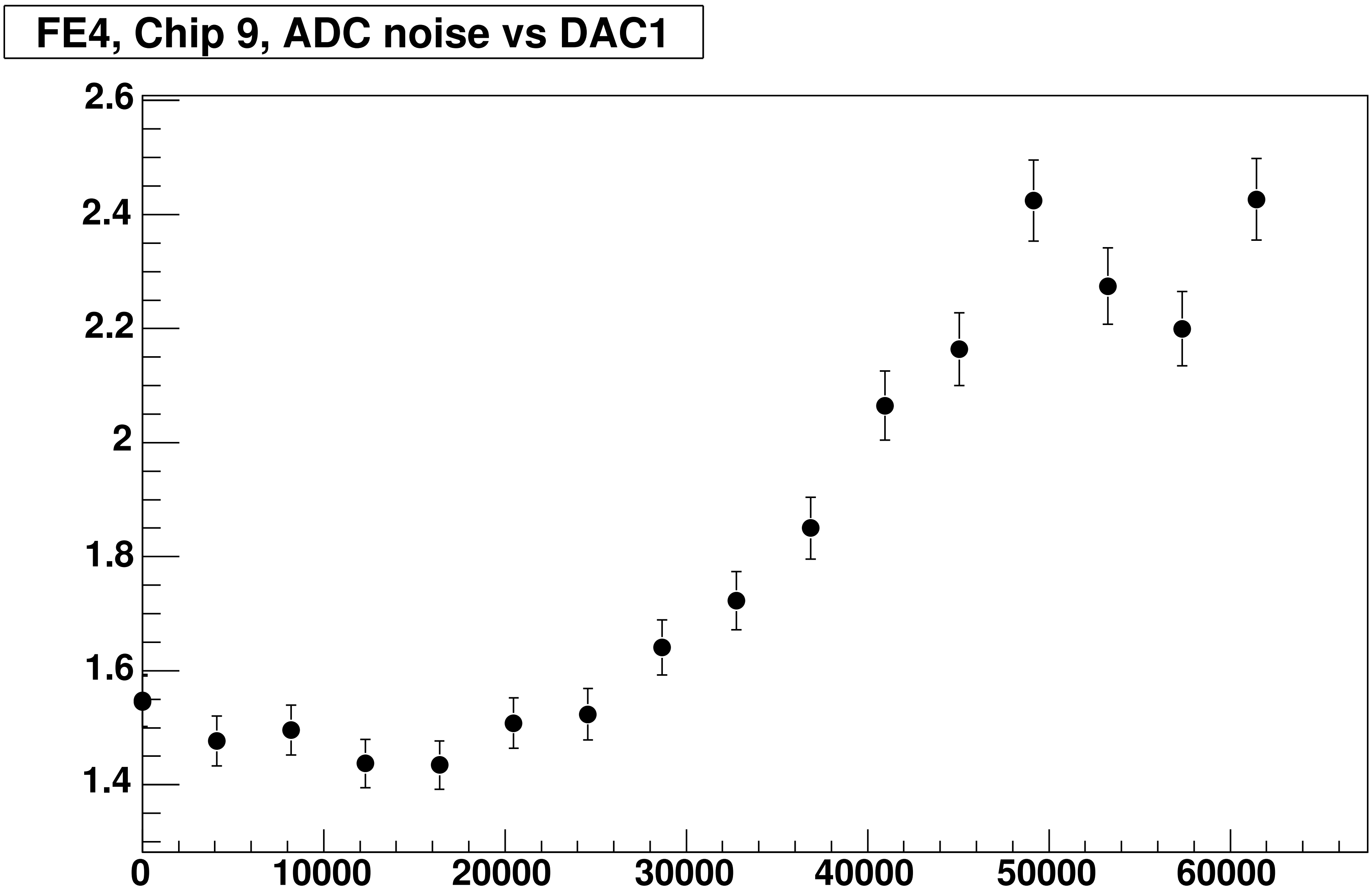
FE4, Chip 9, ADC mean vs DAC0
χ^2 / ndf 16.66 / 11
p0 -27.99 ± 0.04058
p1 2.697e-06 ± 1.125e-06
-27.6
-27.7
-27.8
-27.9
-28
-28.1
-28.2
0
10000
20000
30000
40000
50000
60000


FE4, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

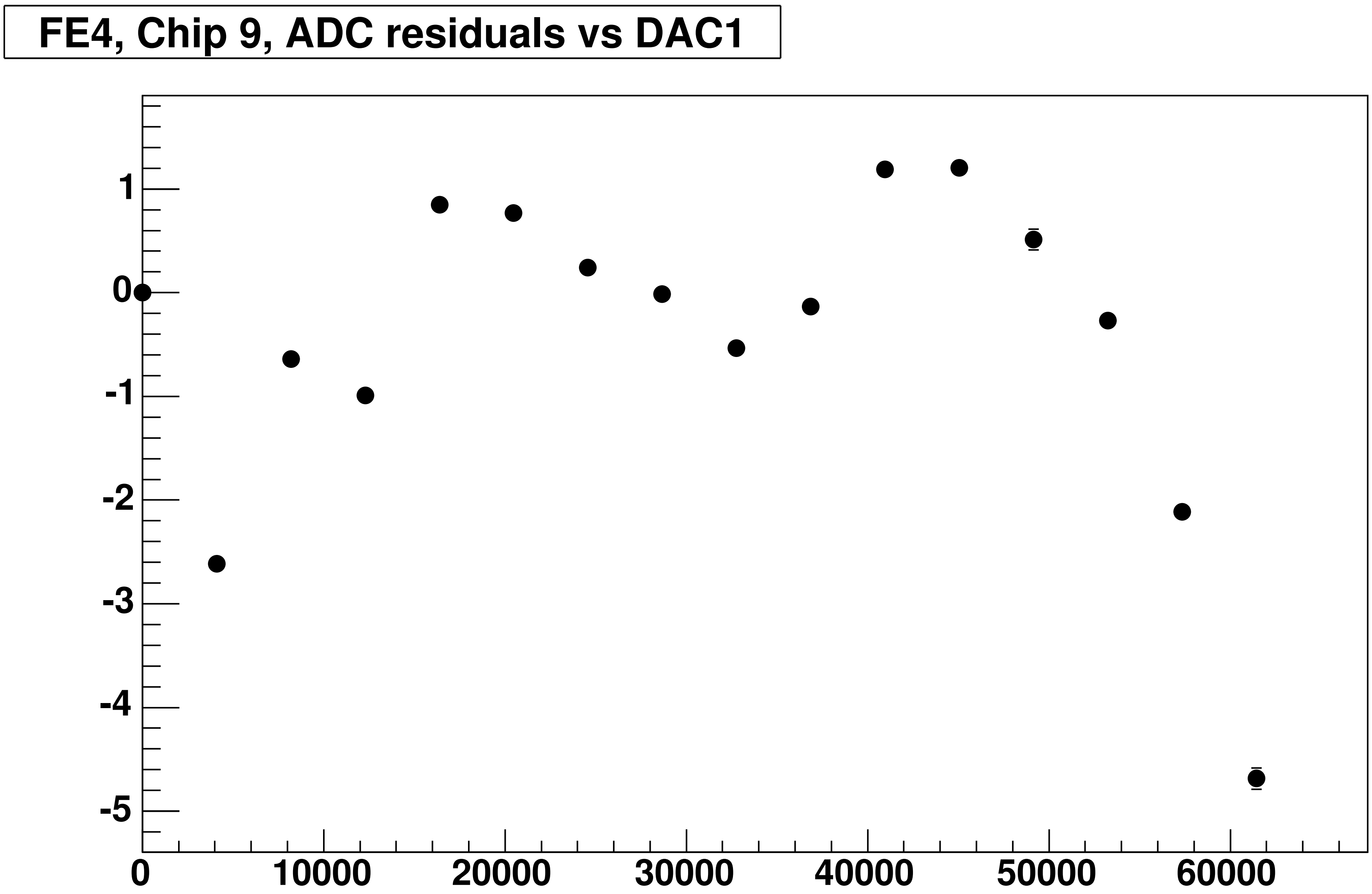


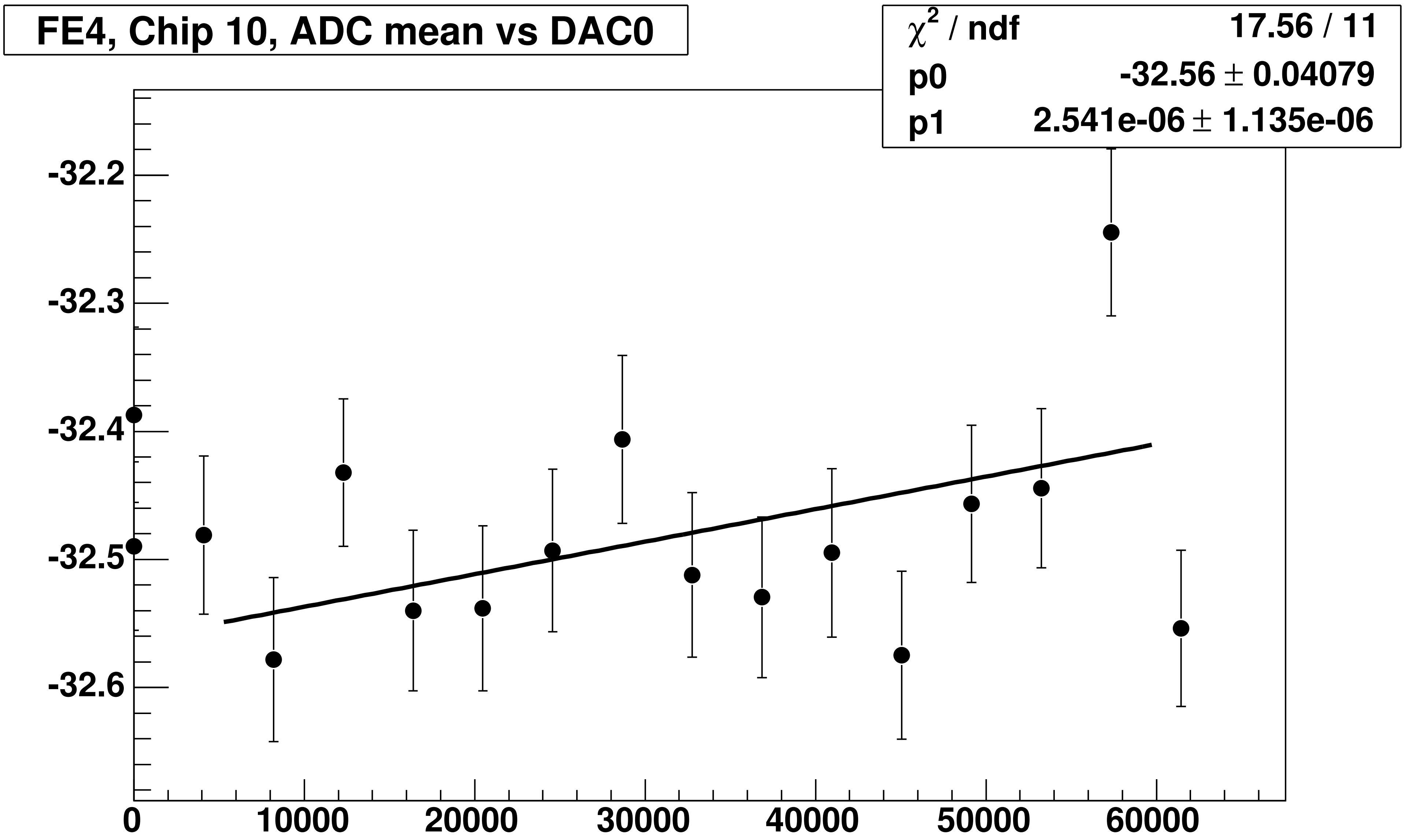
FE4, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

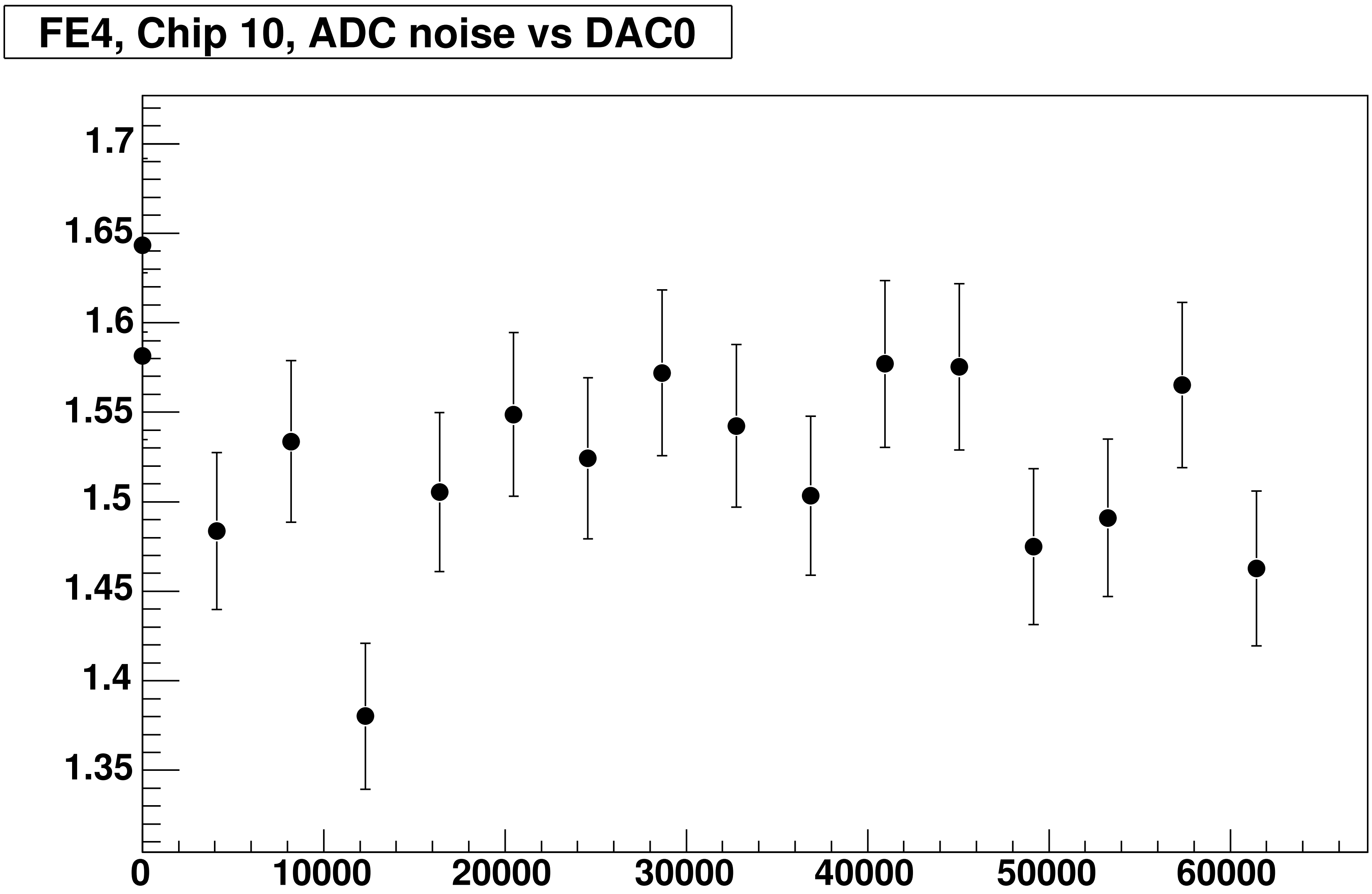

FE4, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1737 / 11
p0 -24.77 ± 0.04343
p1 0.4514 ± 1.389e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

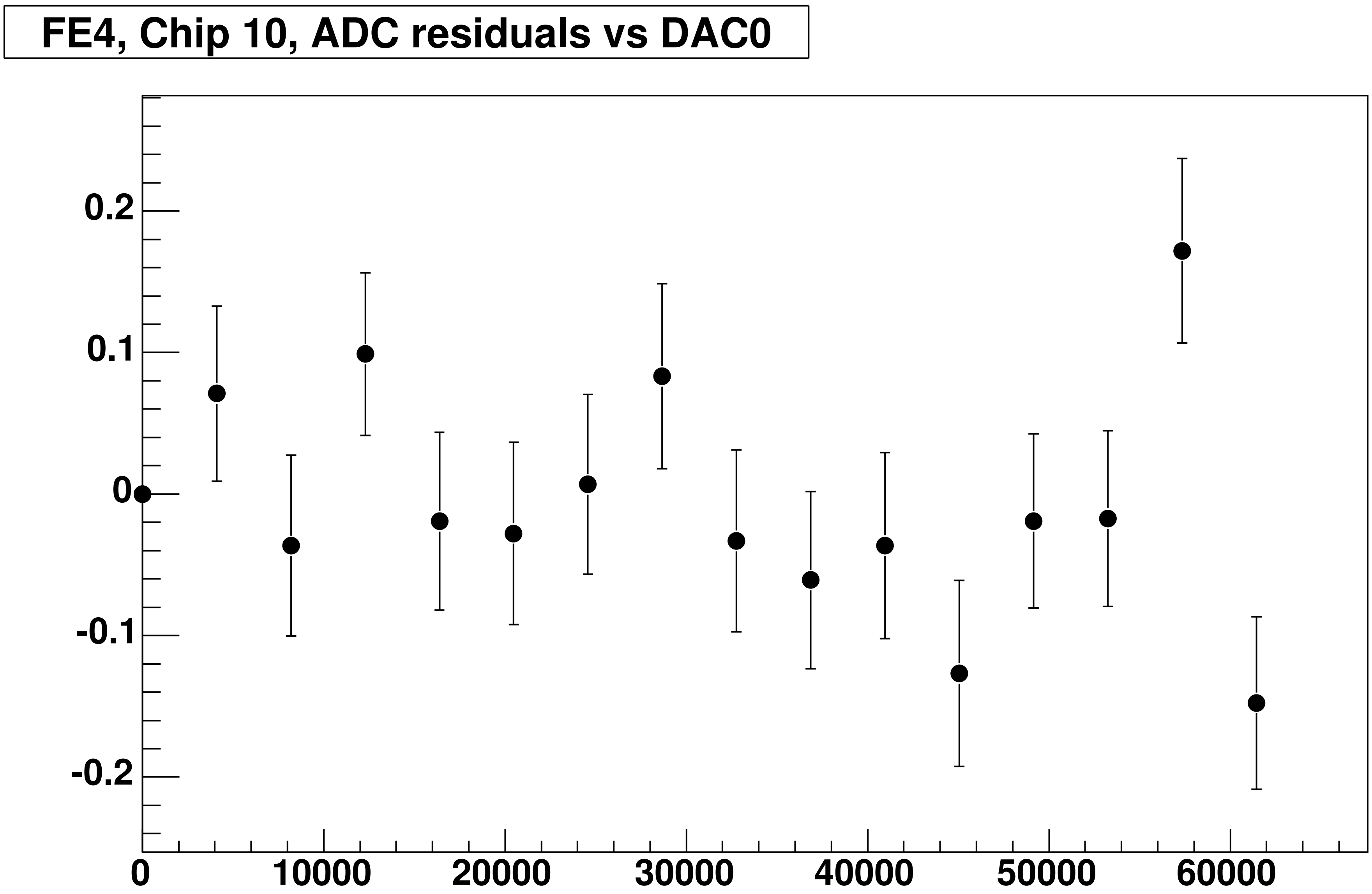


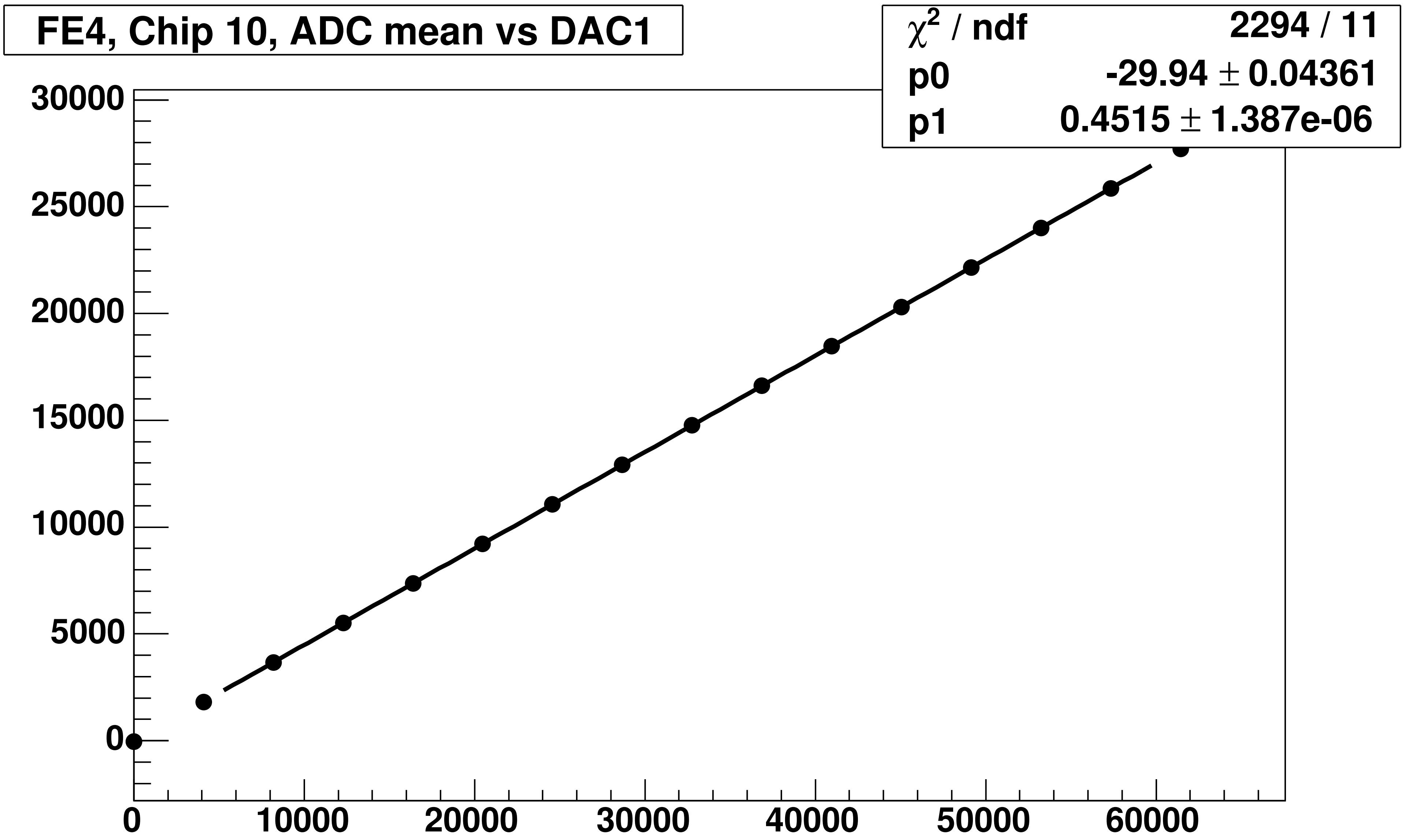
FE4, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE4, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

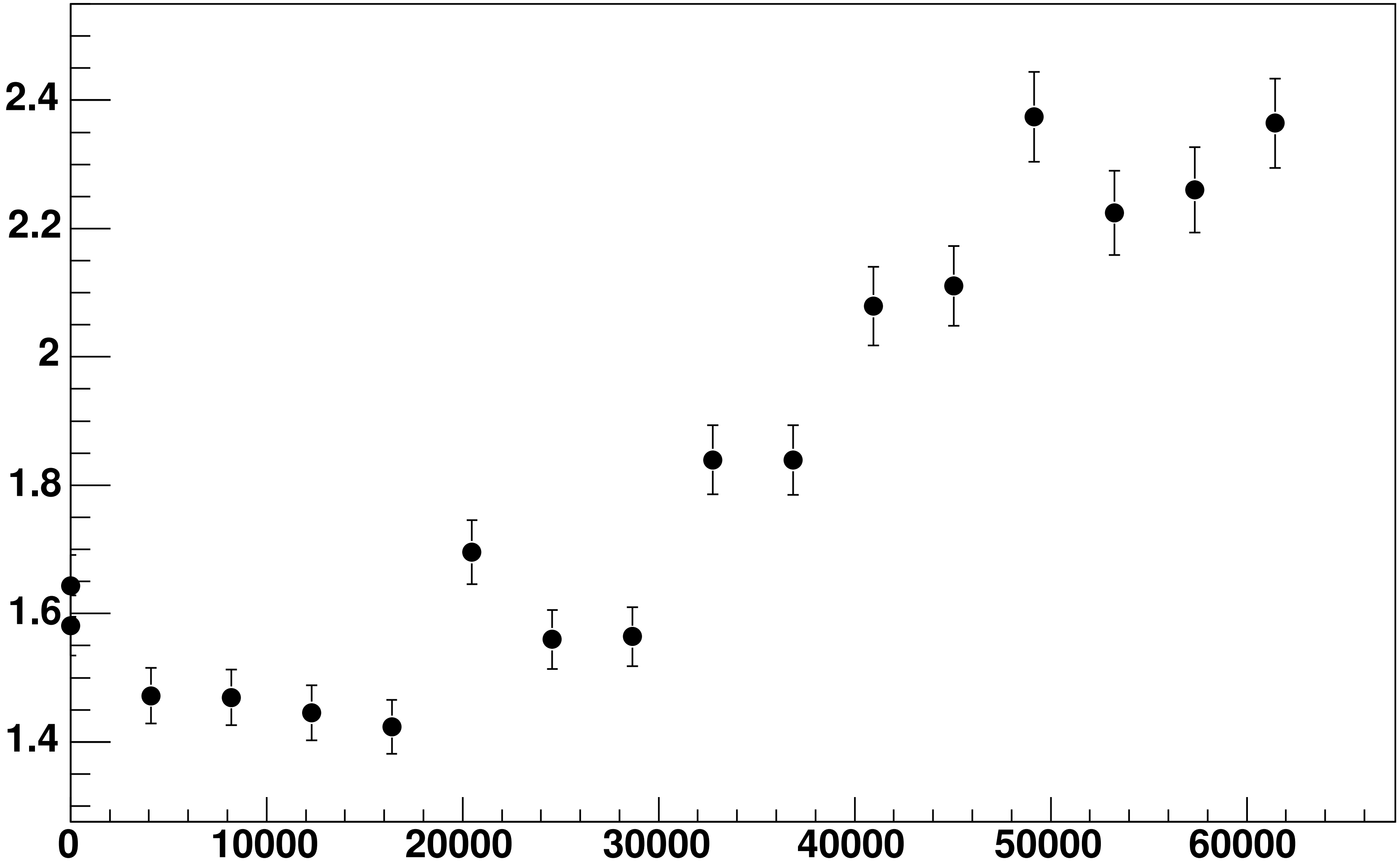

FE4, Chip 10, ADC mean vs DAC0
χ^2 / ndf 17.56 / 11
p0 -32.56 ± 0.04079
p1 2.541e-06 ± 1.135e-06
-32.2
-32.3
-32.4
-32.5
-32.6
0
10000
20000
30000
40000
50000
60000

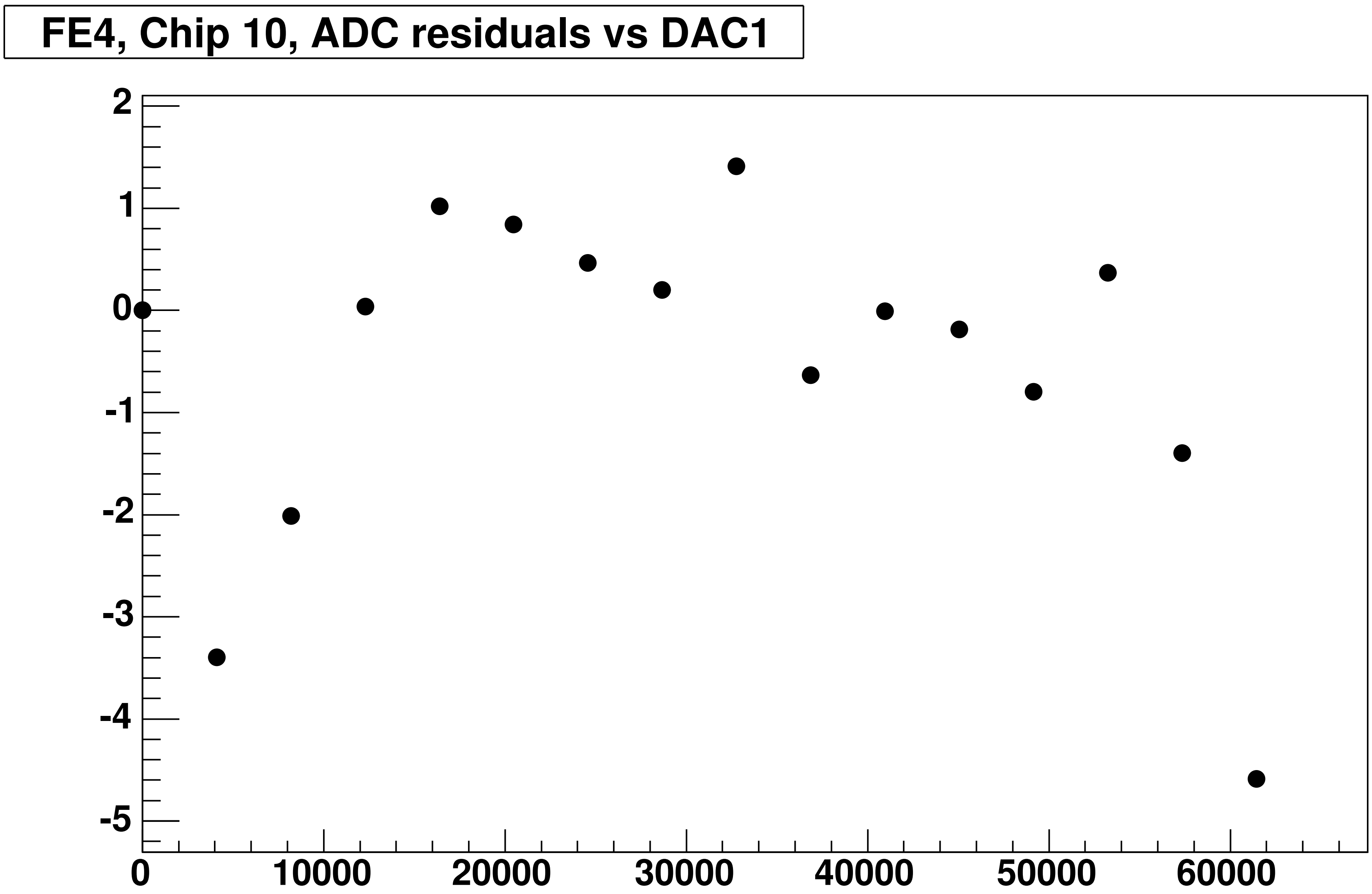

FE4, Chip 10, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

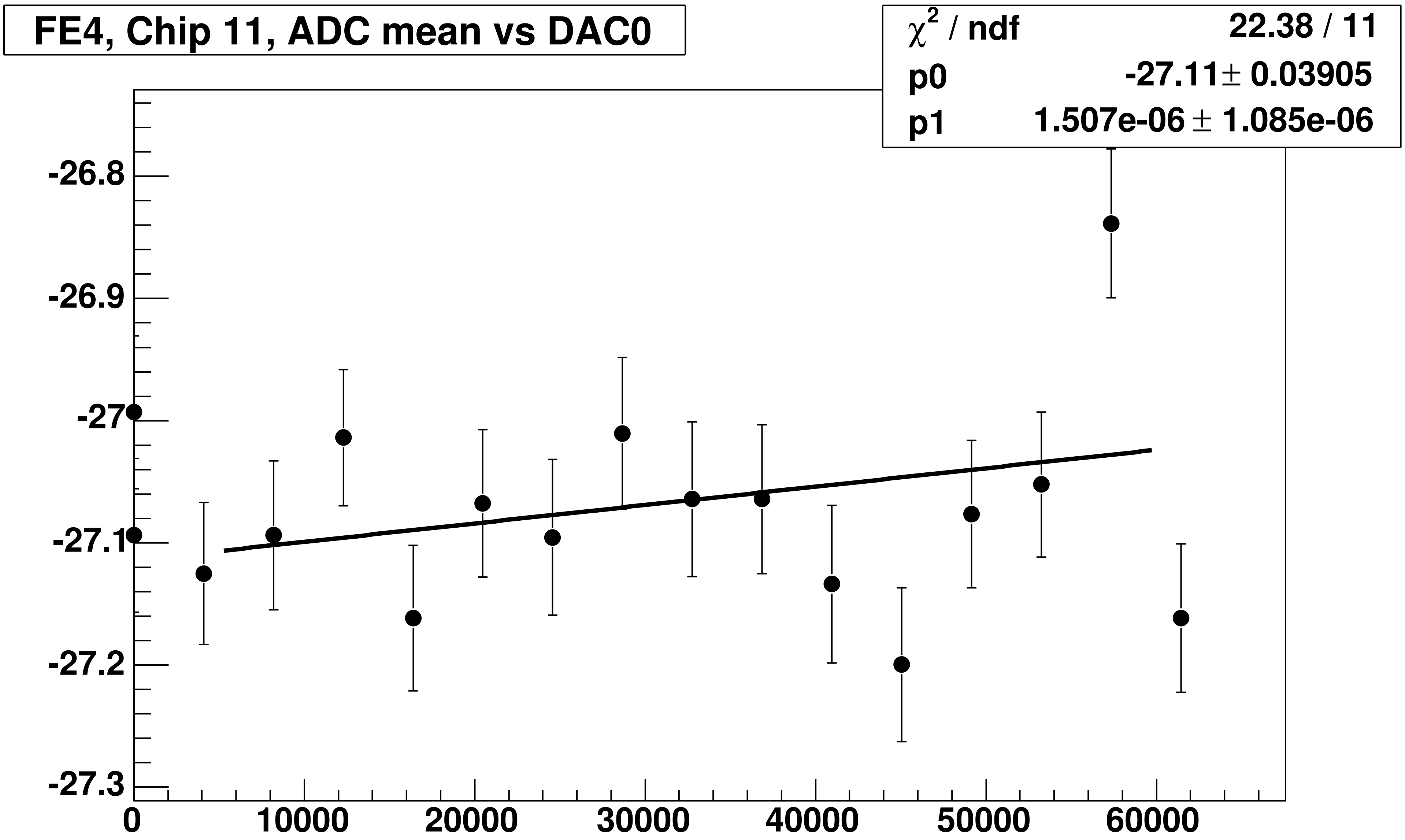

FE4, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

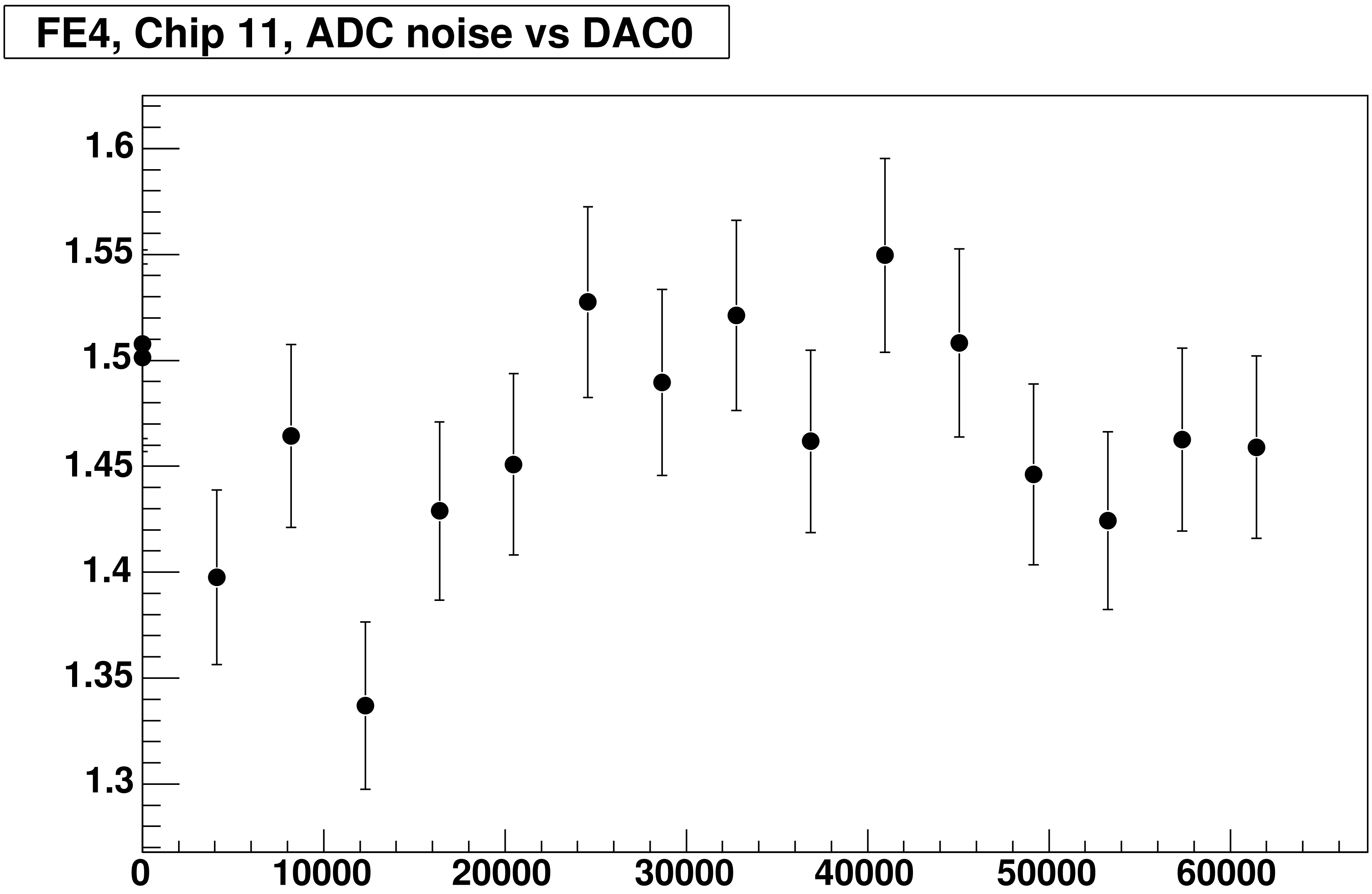

FE4, Chip 10, ADC mean vs DAC1
χ^2 / ndf 2294 / 11
p0 -29.94 ± 0.04361
p1 0.4515 ± 1.387e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

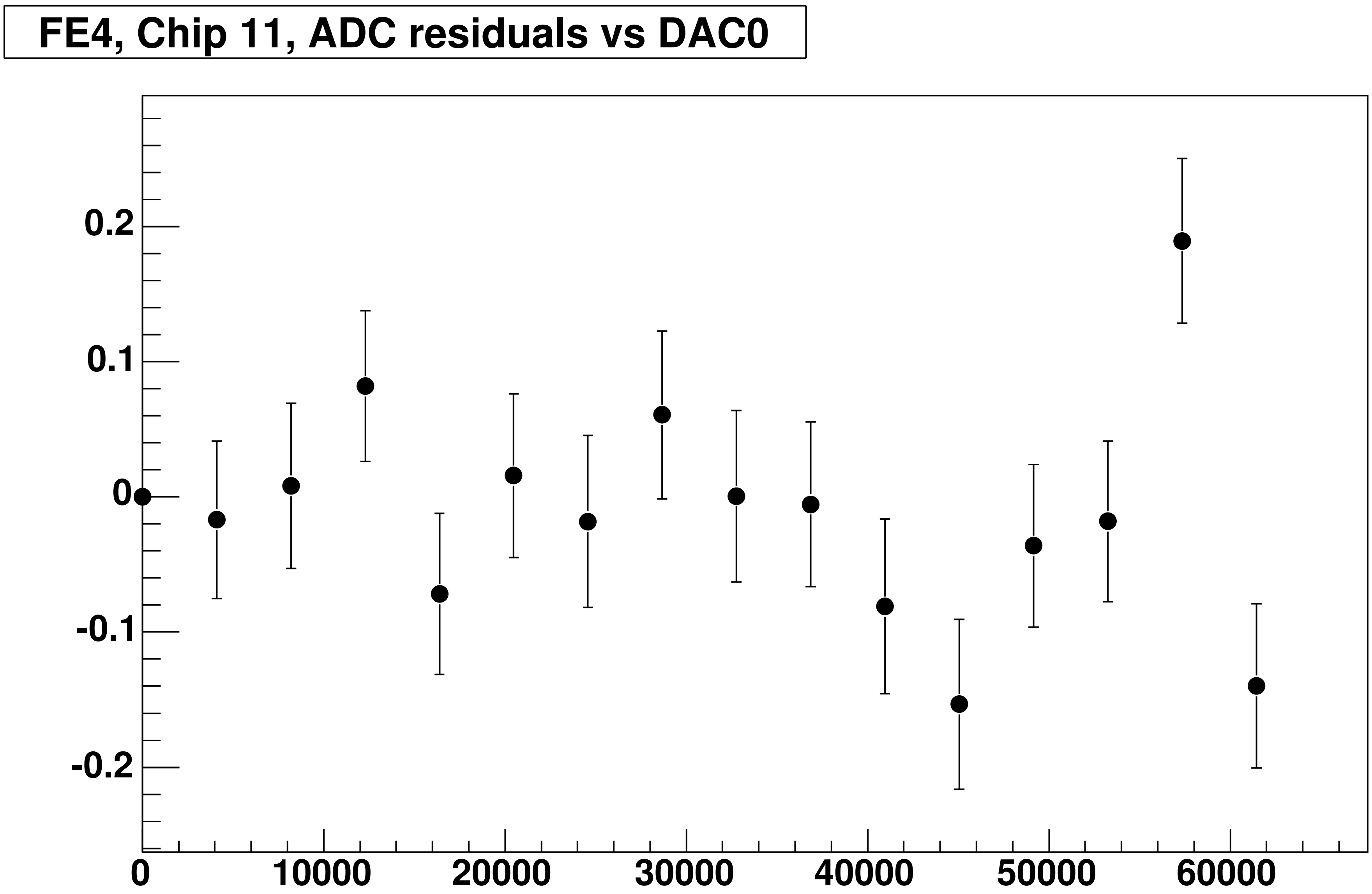
FE4, Chip 10, ADC noise vs DAC1

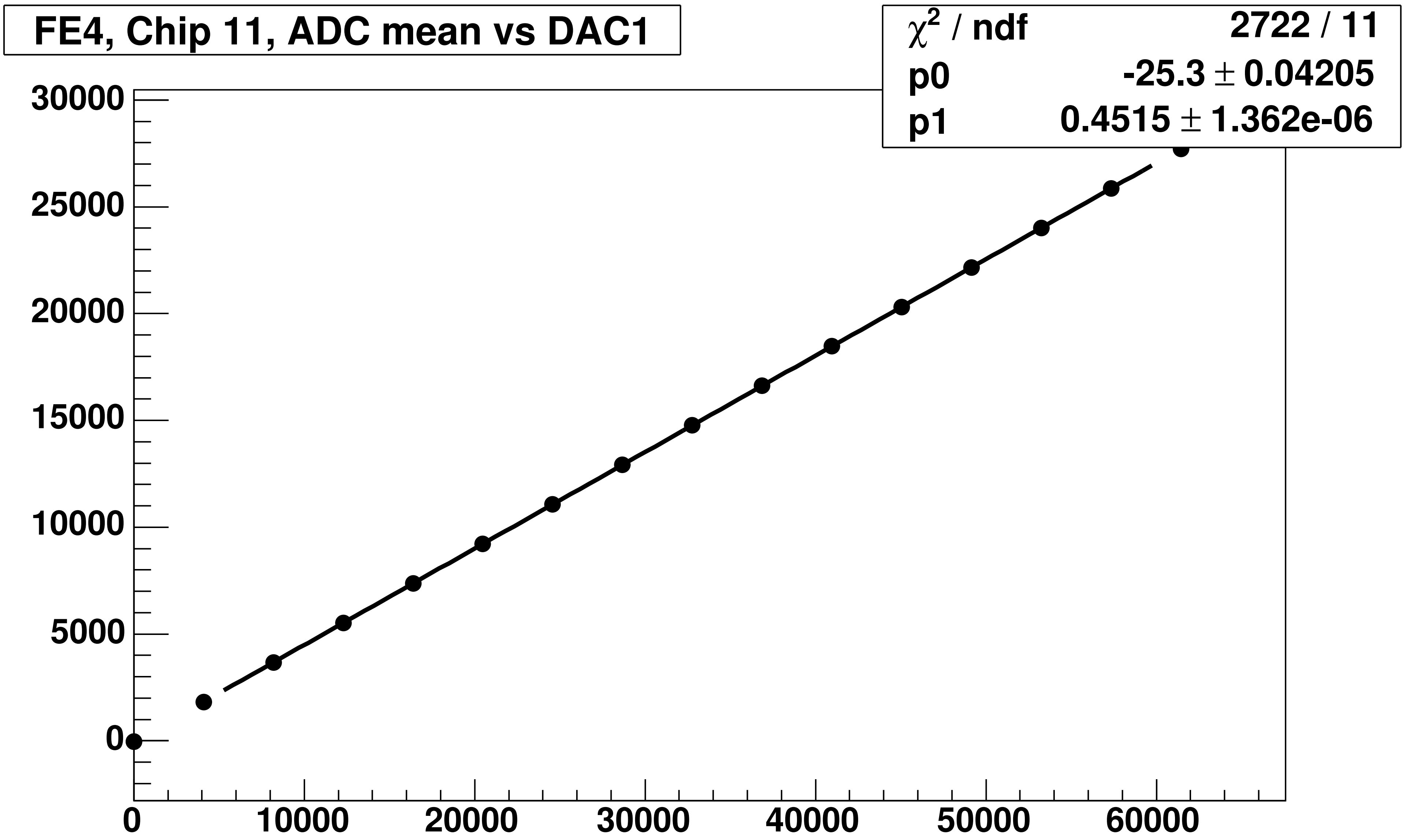



FE4, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

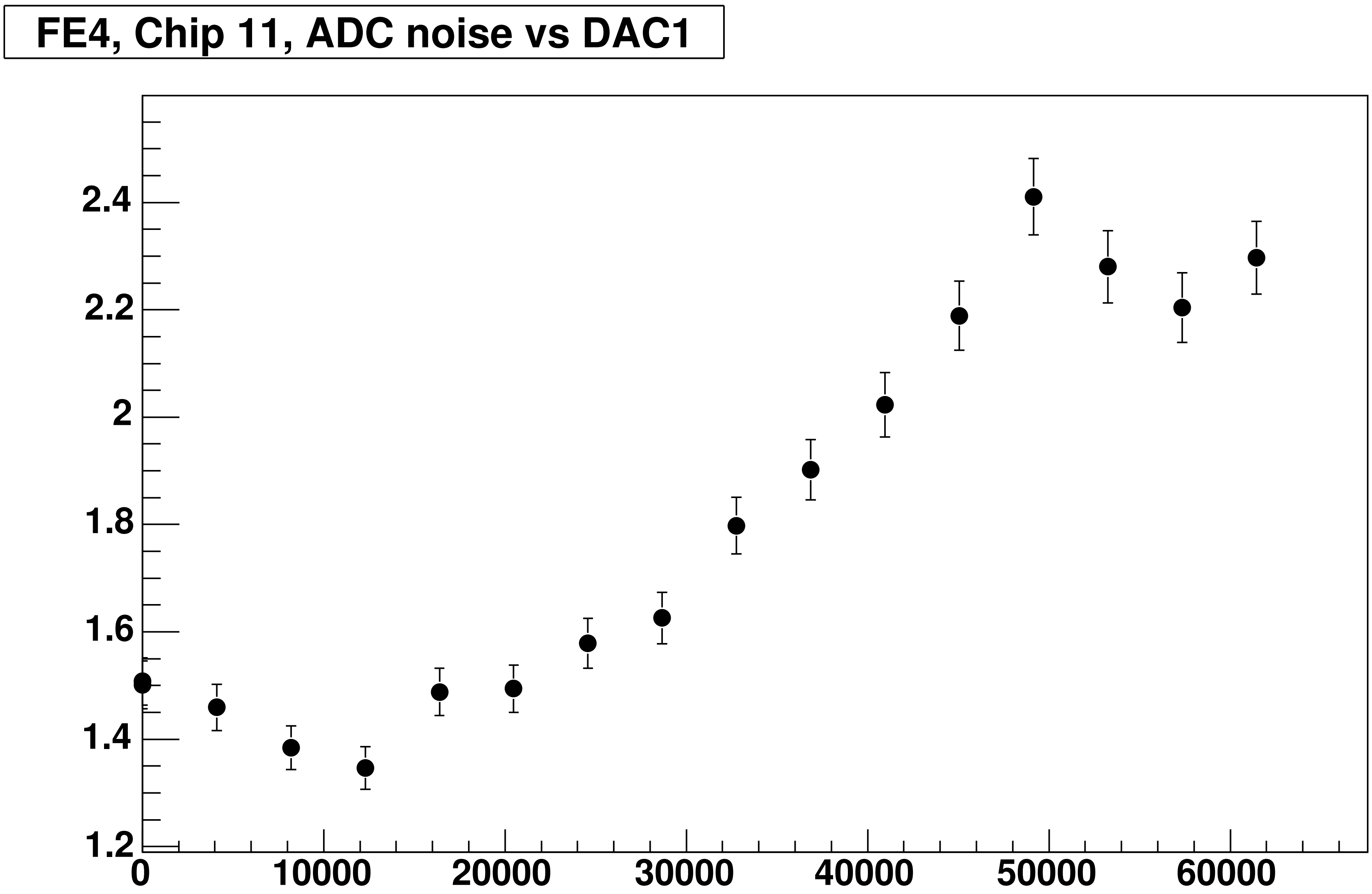

FE4, Chip 11, ADC mean vs DAC0
χ^2 / ndf 22.38 / 11
p0 -27.11± 0.03905
p1 1.507e-06 ± 1.085e-06
-26.8
-26.9
-27
-27.1
-27.2
-27.3
0
10000
20000
30000
40000
50000
60000

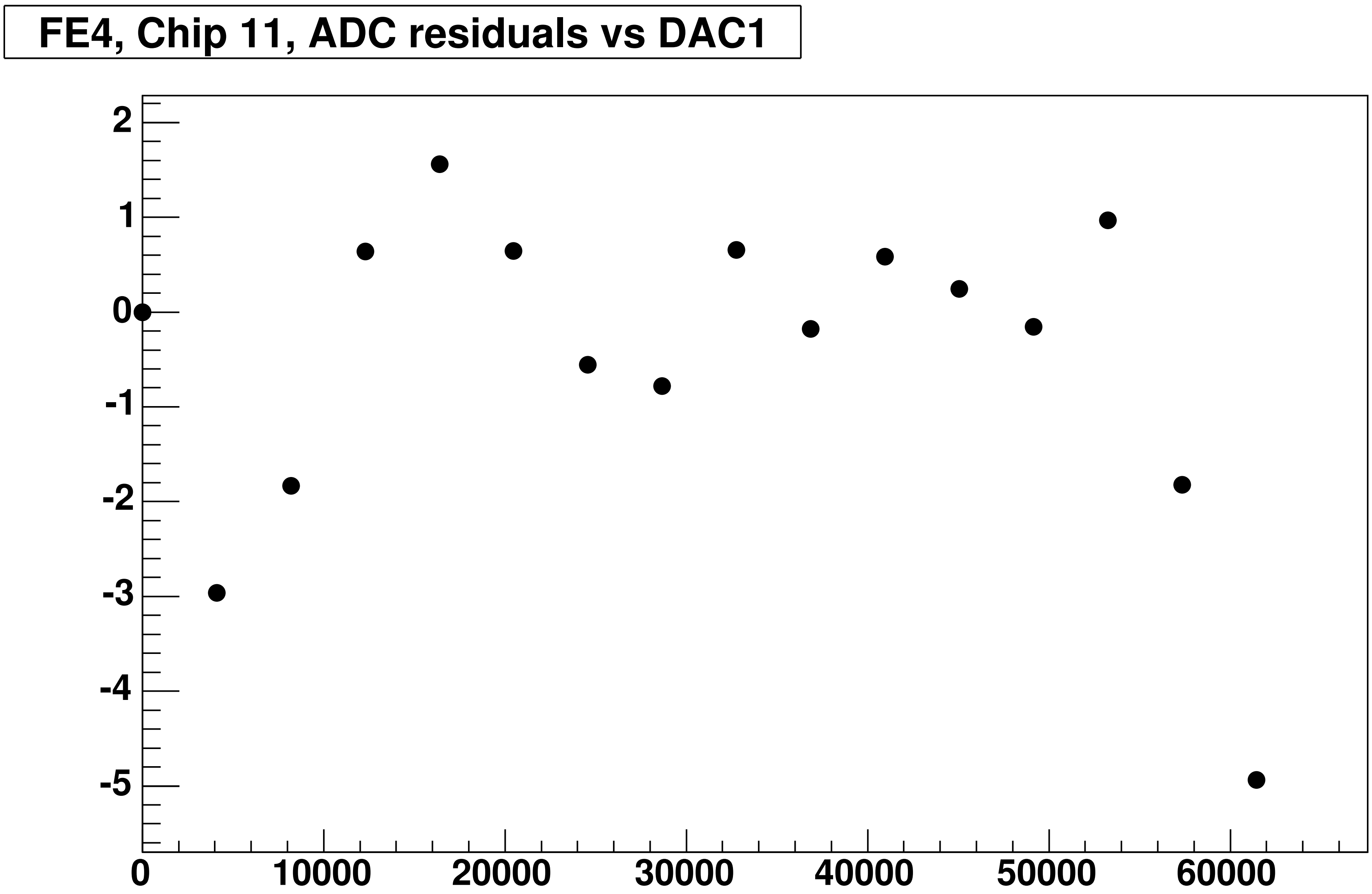

FE4, Chip 11, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

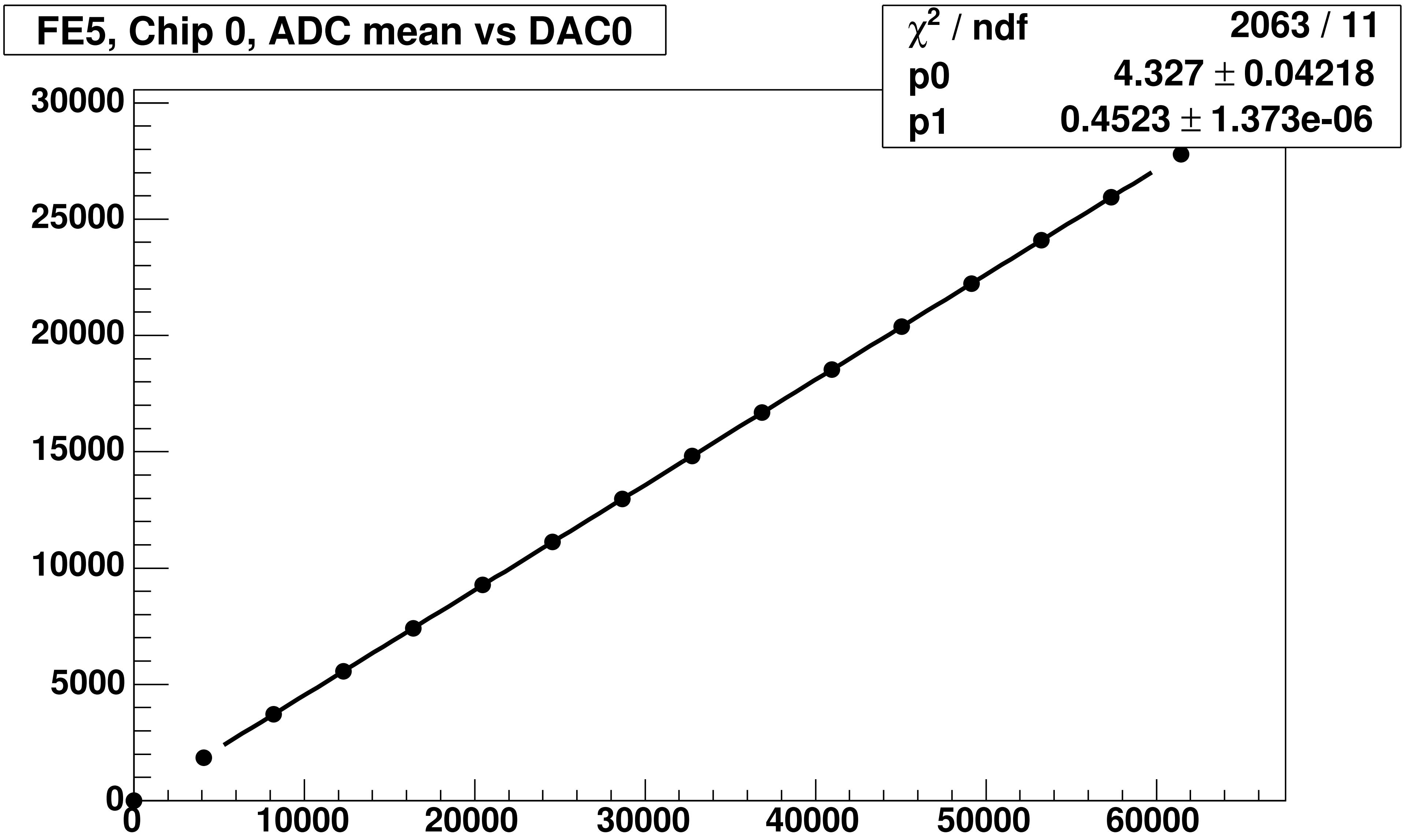

FE4, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

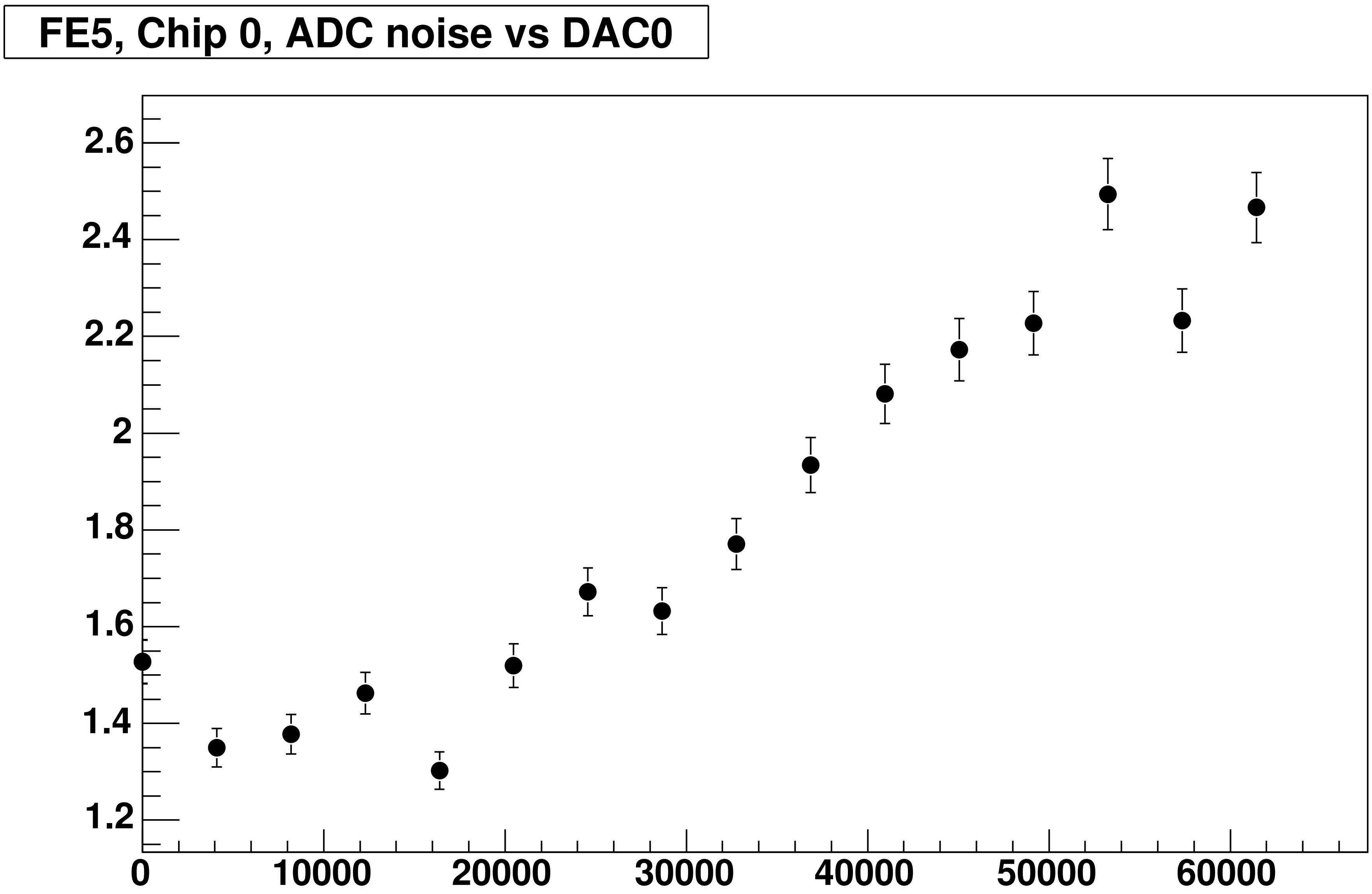


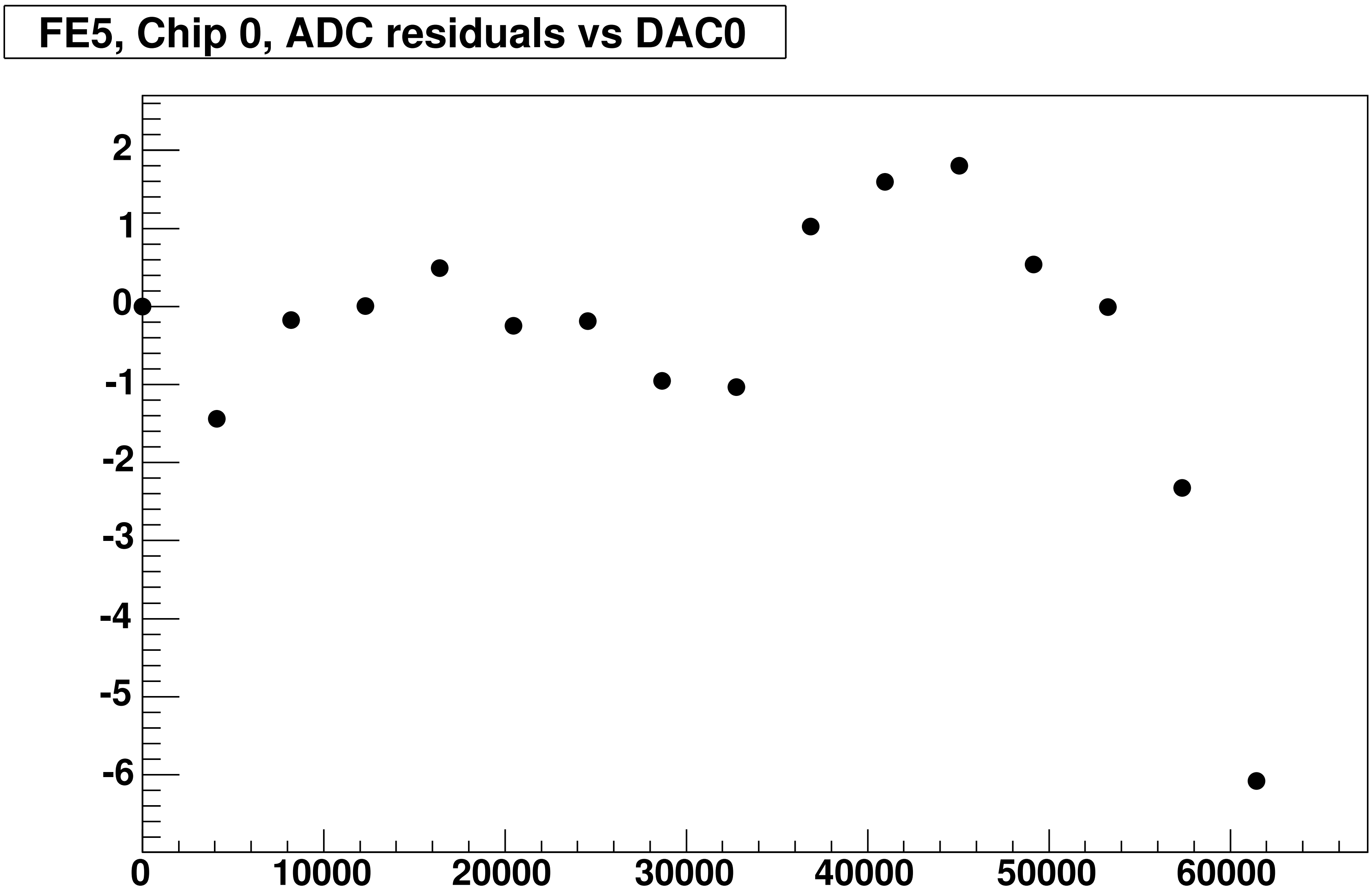
FE4, Chip 11, ADC mean vs DAC1
χ^2 / ndf 2722 / 11
p0 -25.3 ± 0.04205
p1 0.4515 ± 1.362e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

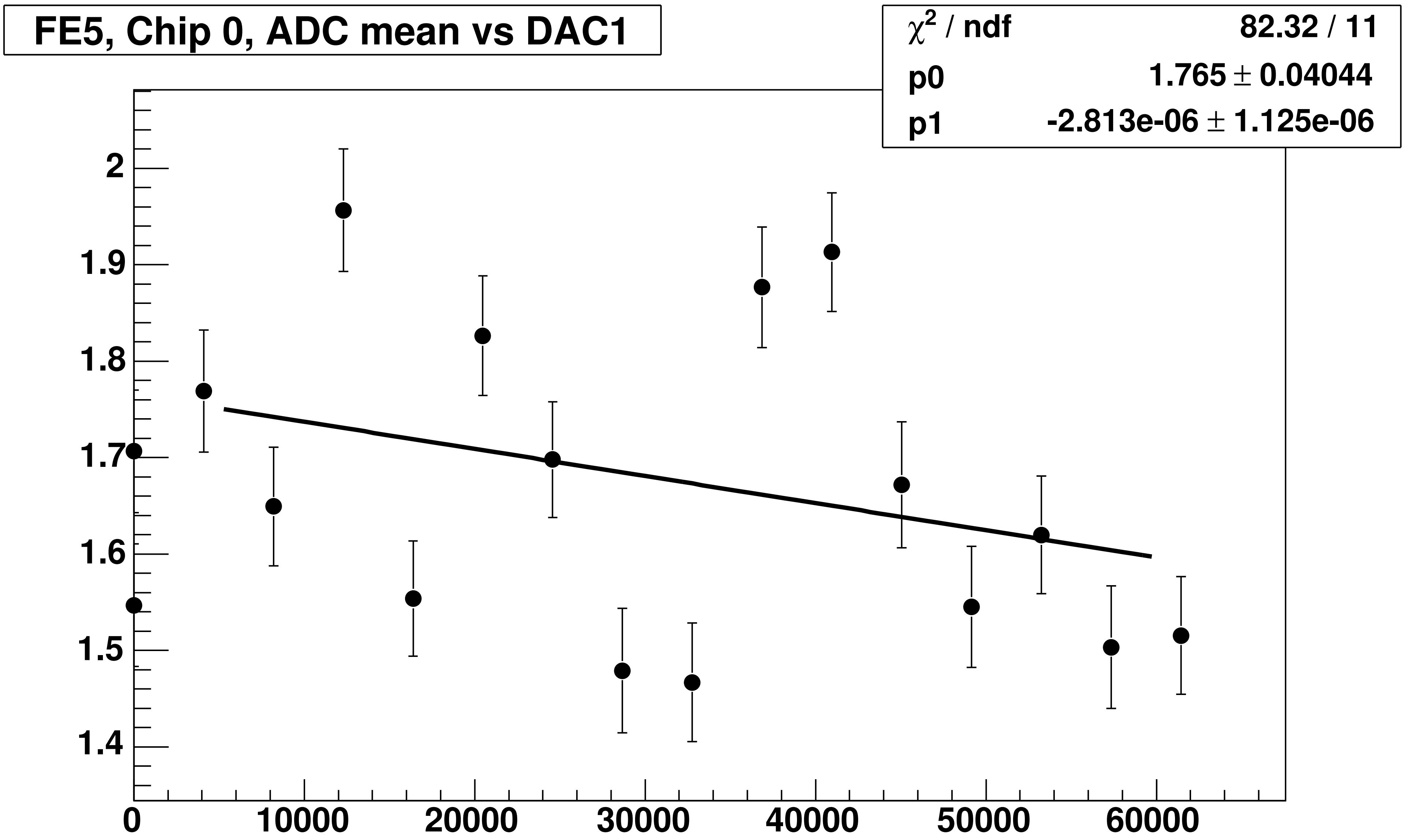

FE4, Chip 11, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

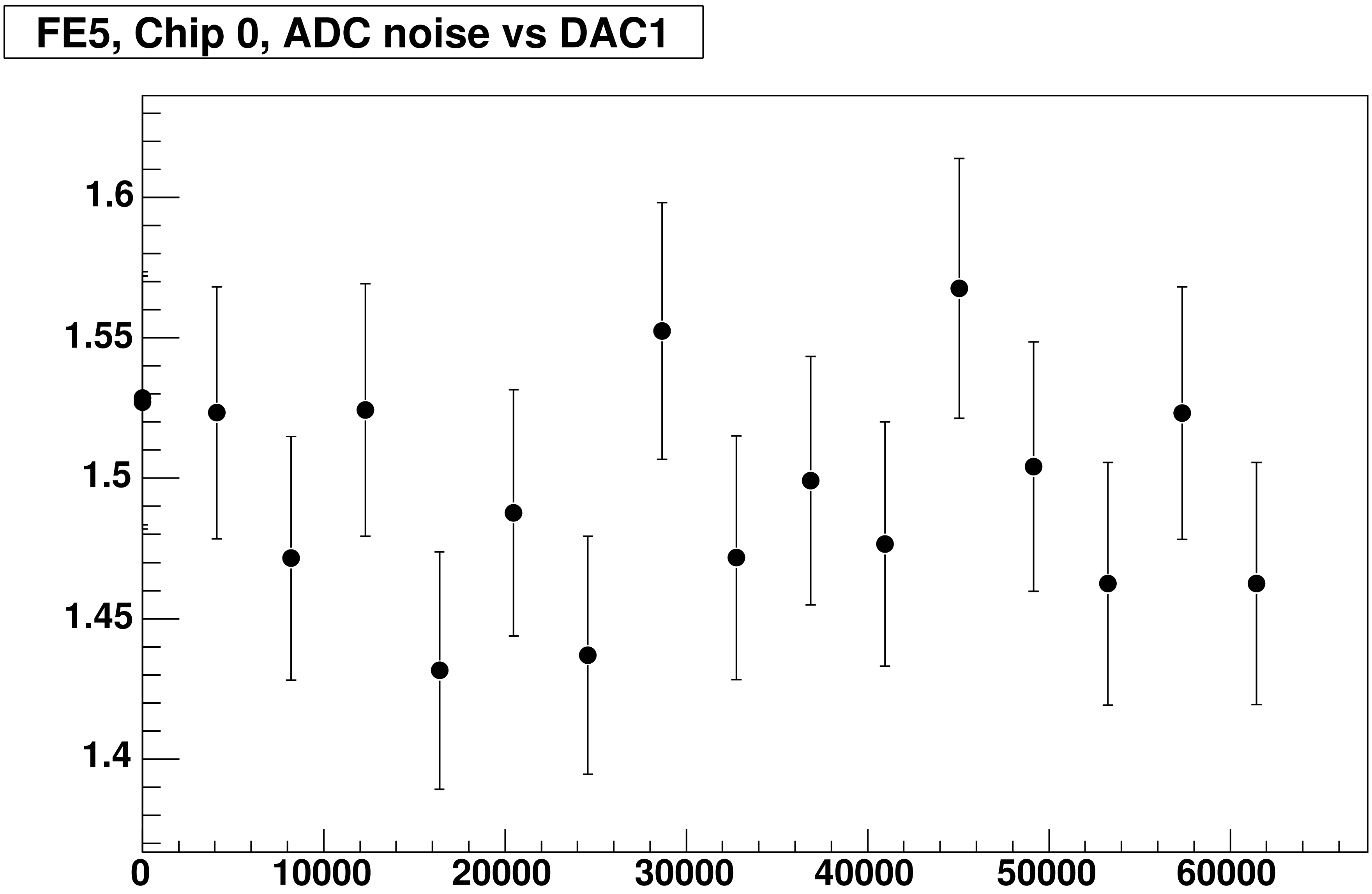

FE4, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE5, Chip 0, ADC mean vs DAC0
χ2 / ndf 2063 / 11
p0 4.327 ± 0.04218
p1 0.4523 ± 1.373e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

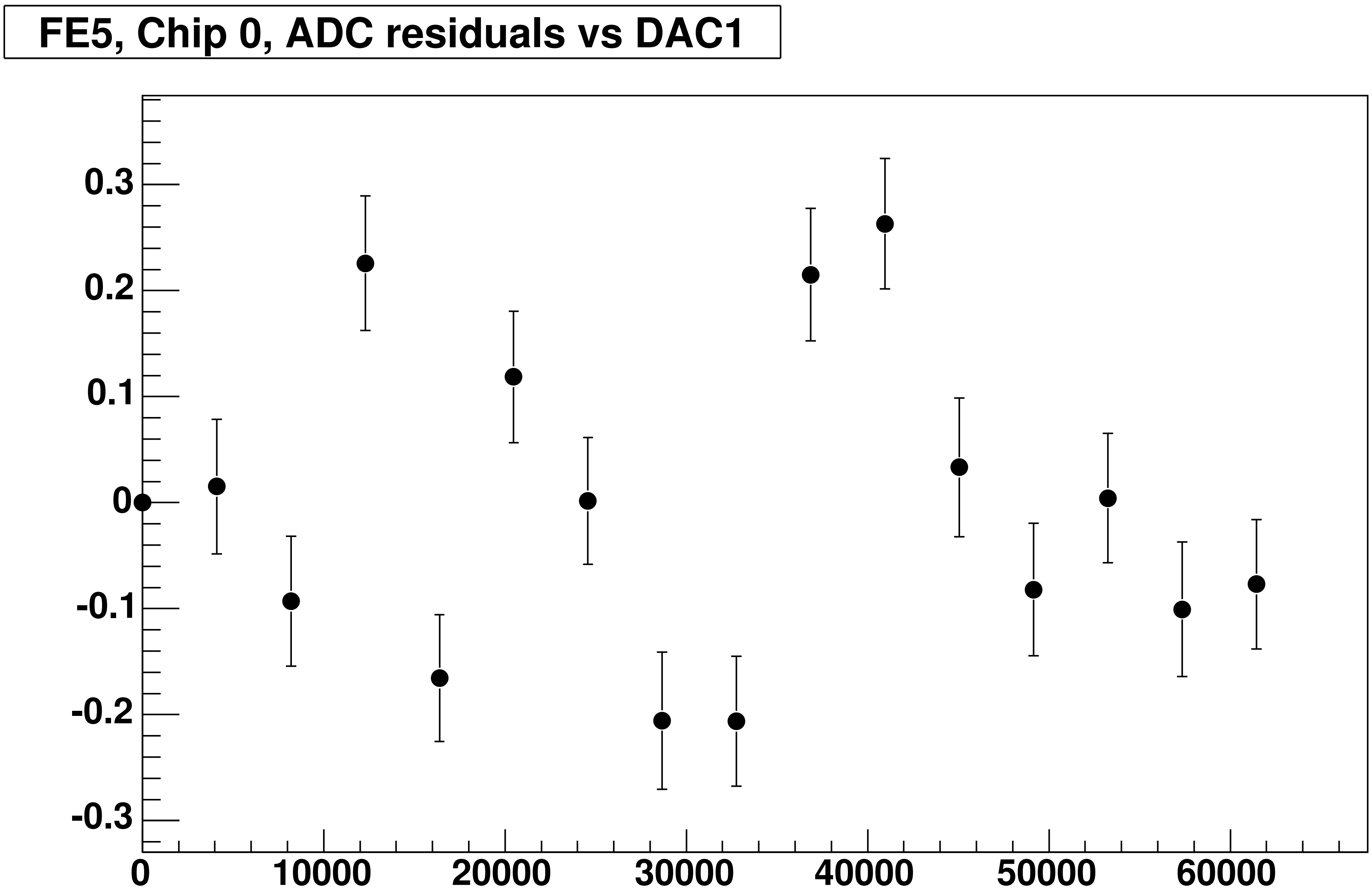

FE5, Chip 0, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE5, Chip 0, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

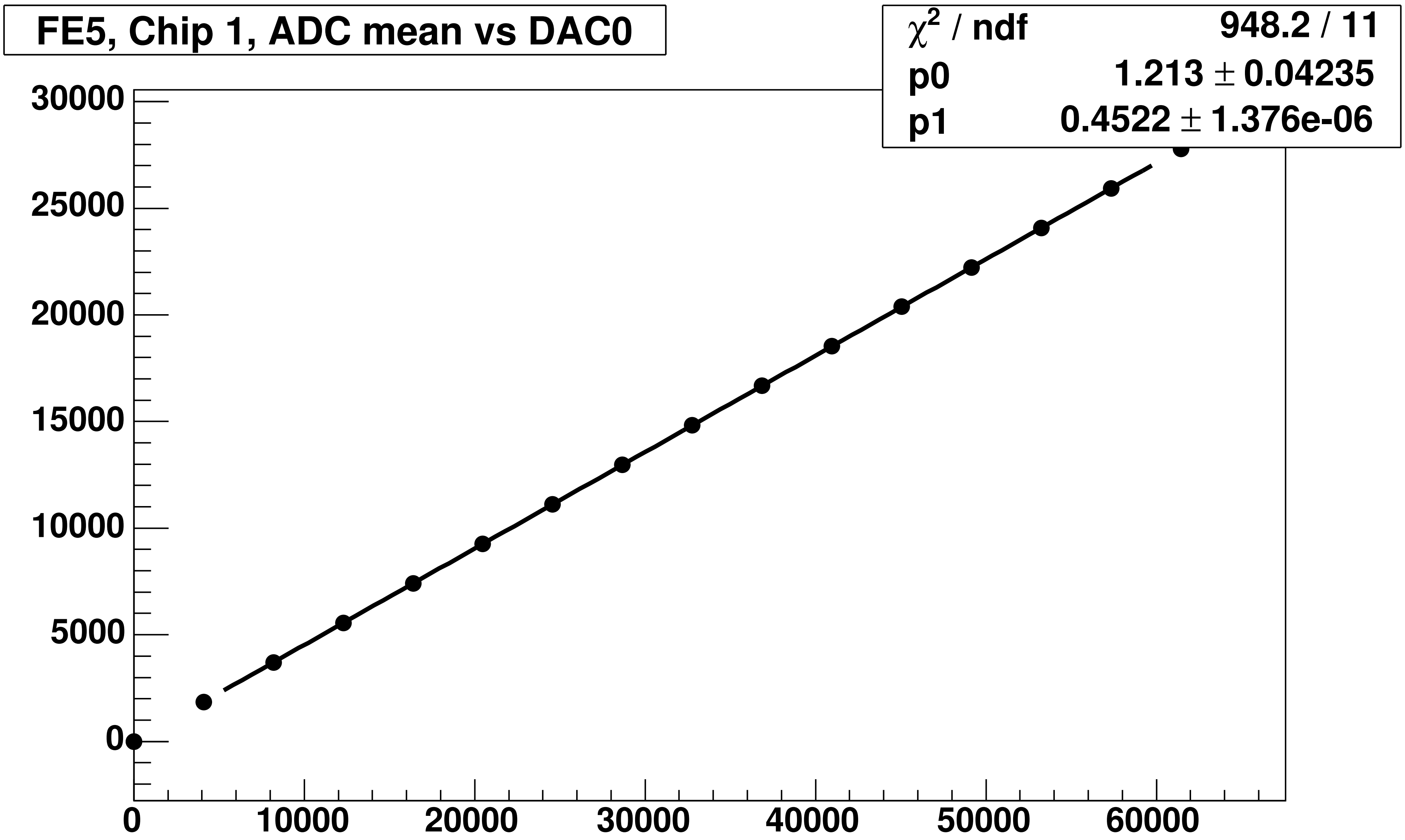

FE5, Chip 0, ADC mean vs DAC1
χ^2 / ndf 82.32 / 11
p0 1.765 ± 0.04044
p1 -2.813e-06 ± 1.125e-06
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000



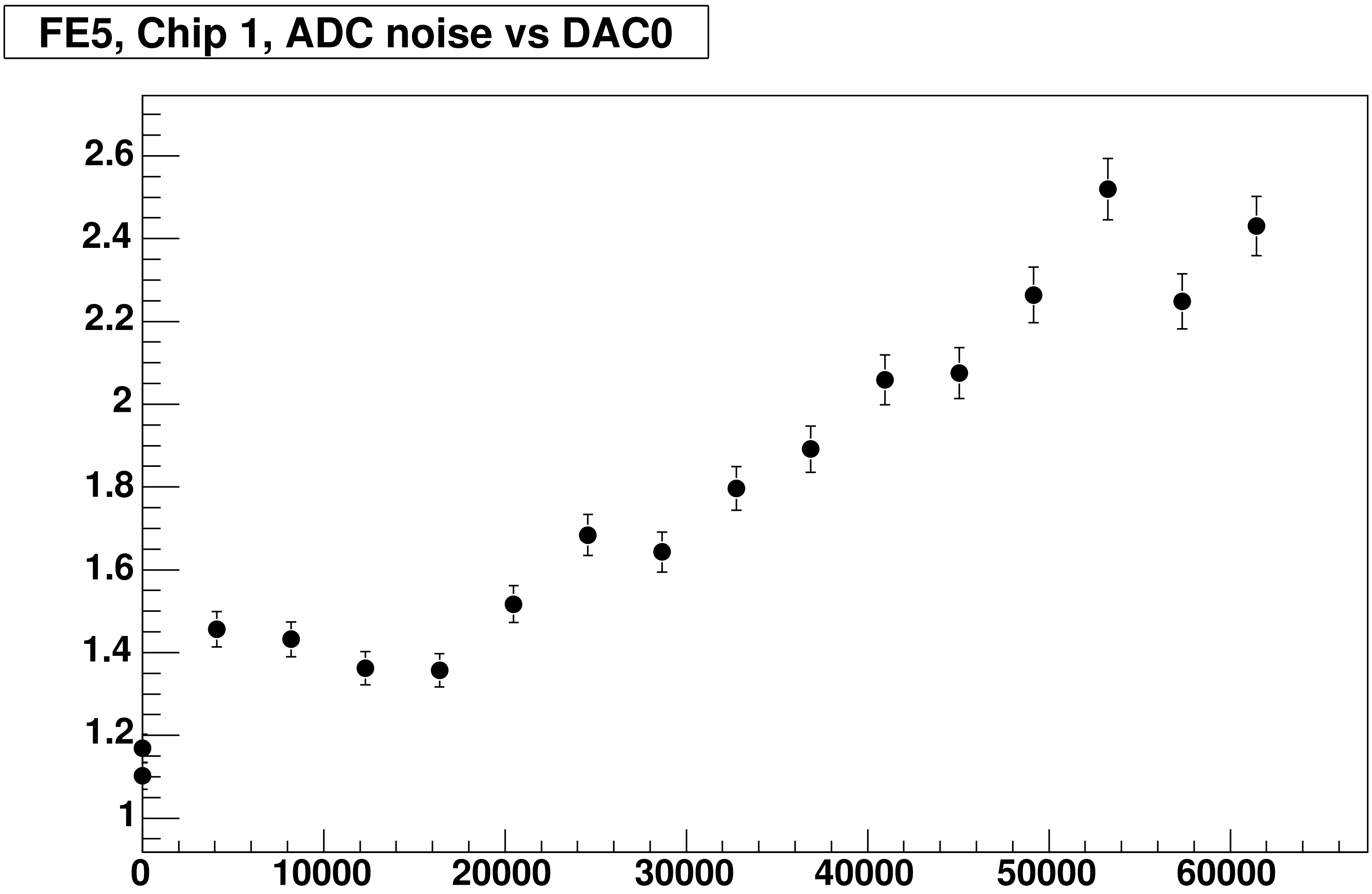
FE5, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

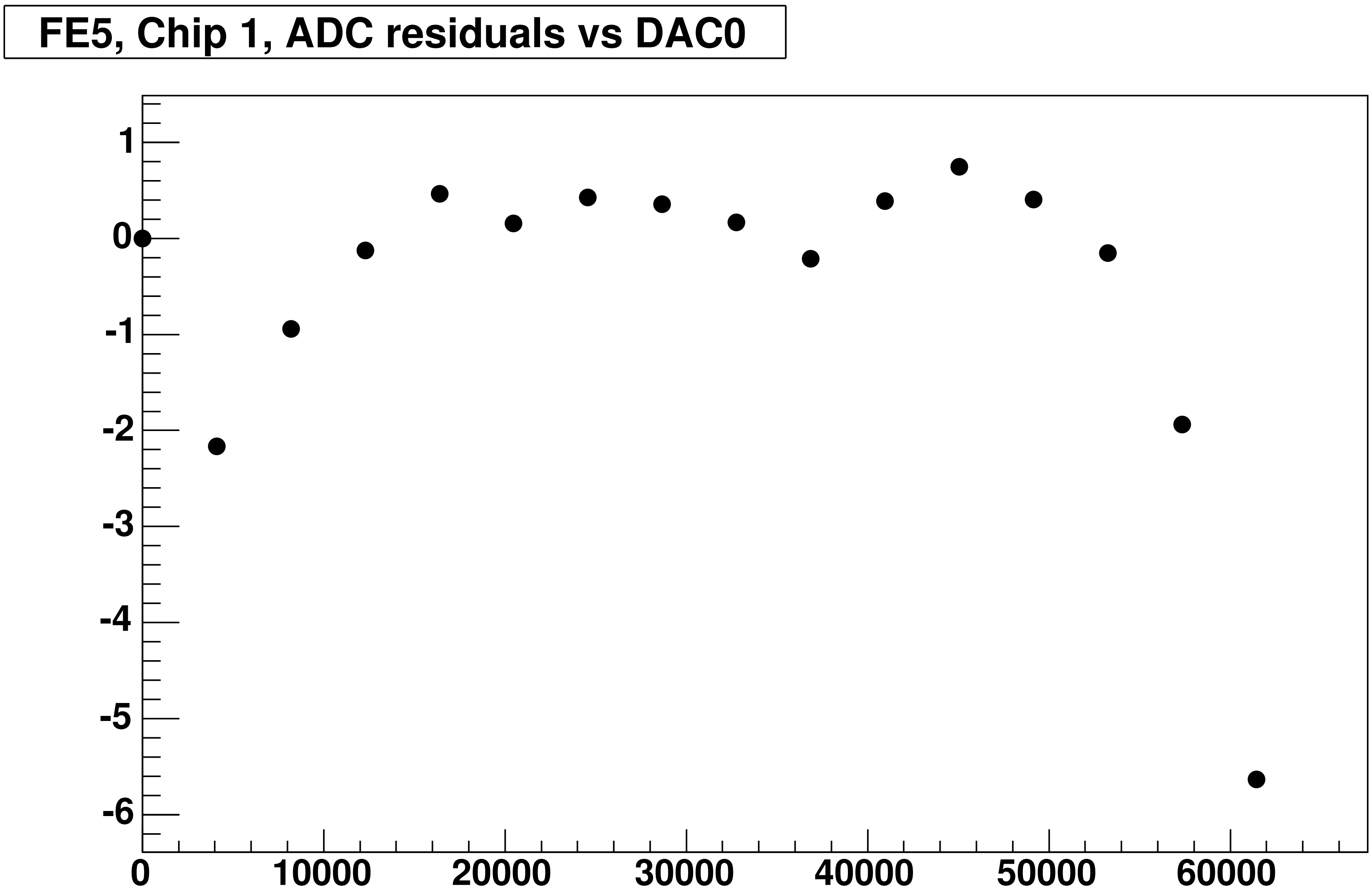


FE5, Chip 0, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

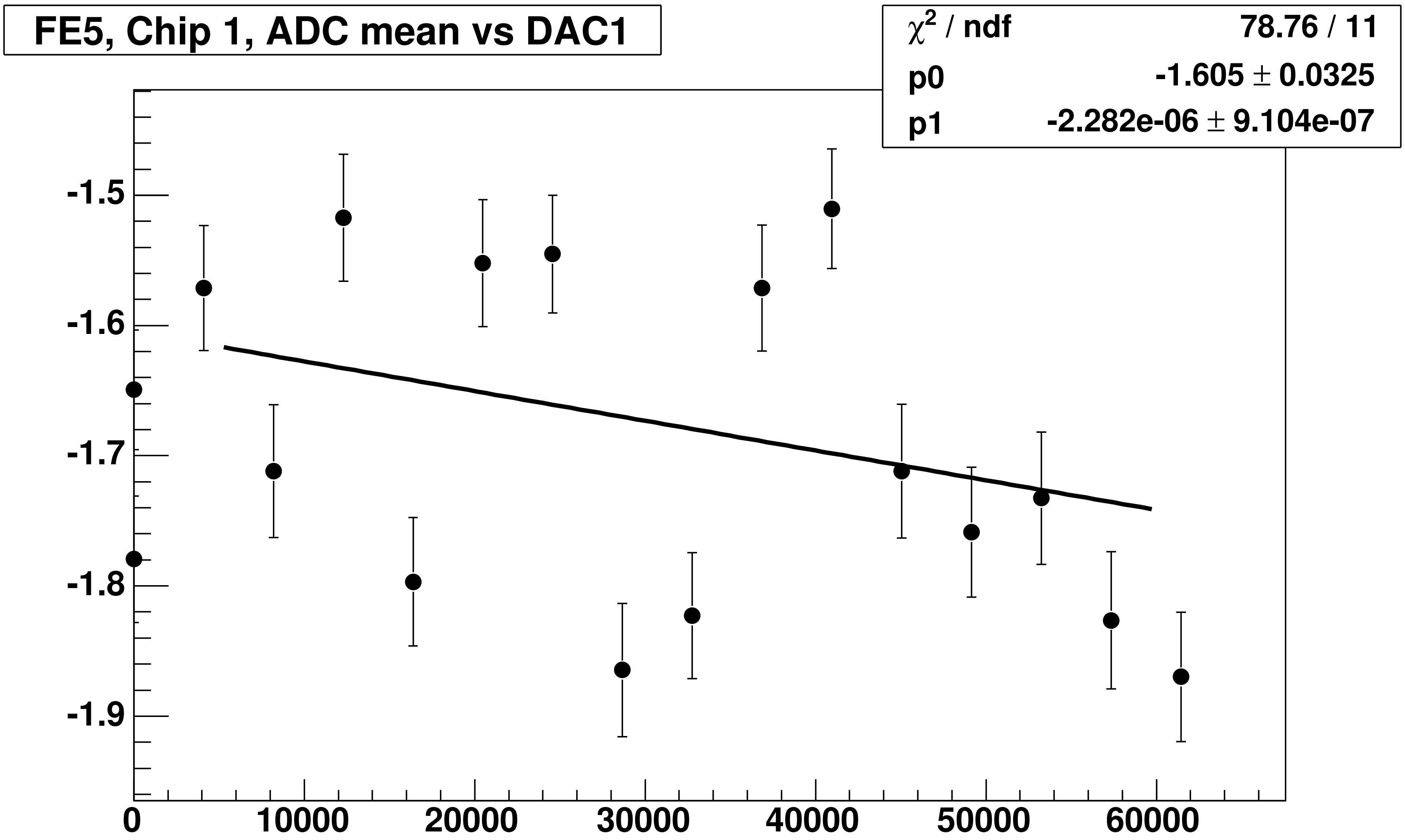


FE5, Chip 1, ADC mean vs DAC0
χ^2 / ndf 948.2 / 11
p0 1.213 ± 0.04235
p1 0.4522 ± 1.376e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

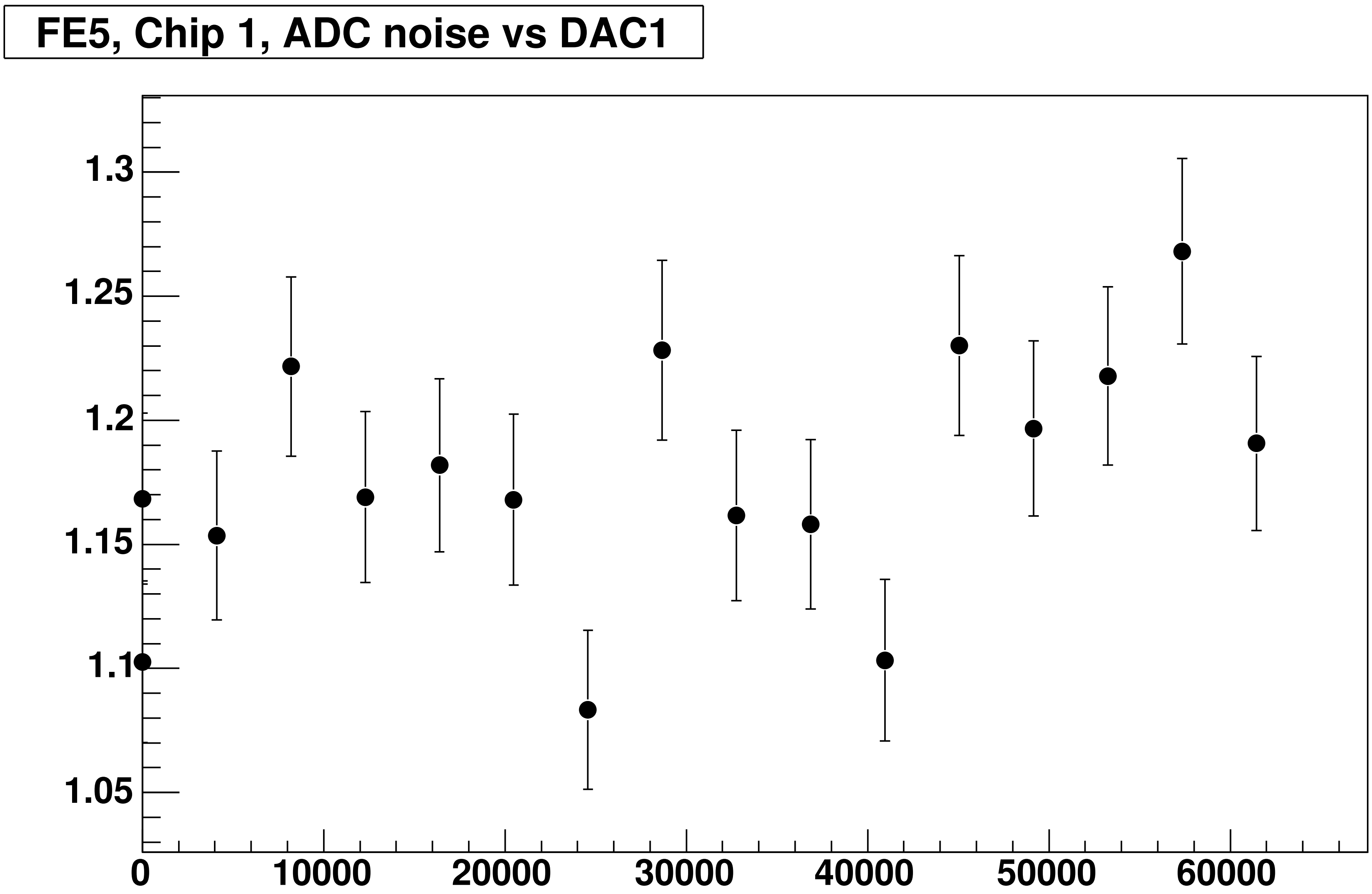

FE5, Chip 1, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0
10000
20000
30000
40000
50000
60000

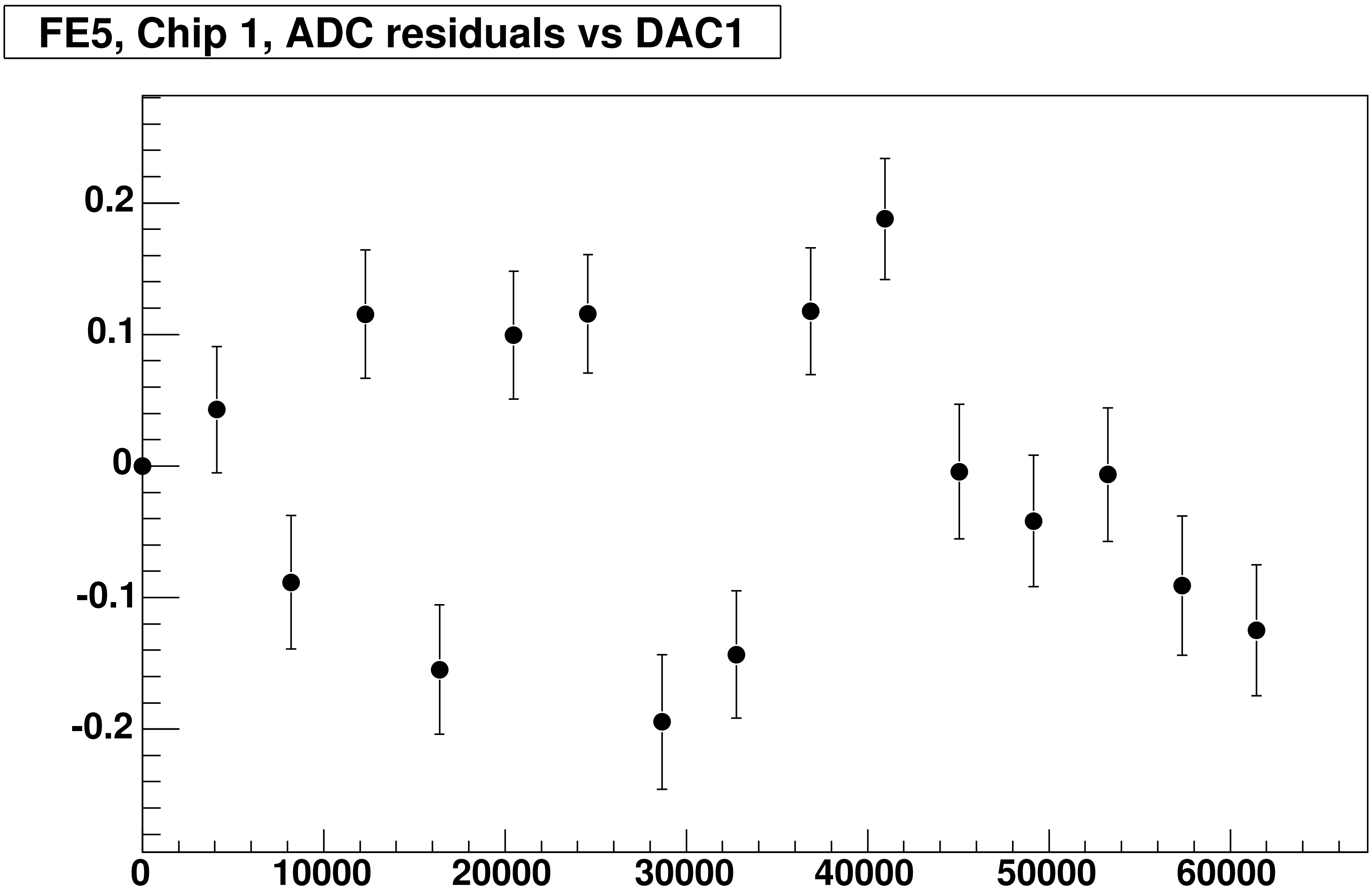


FE5, Chip 1, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

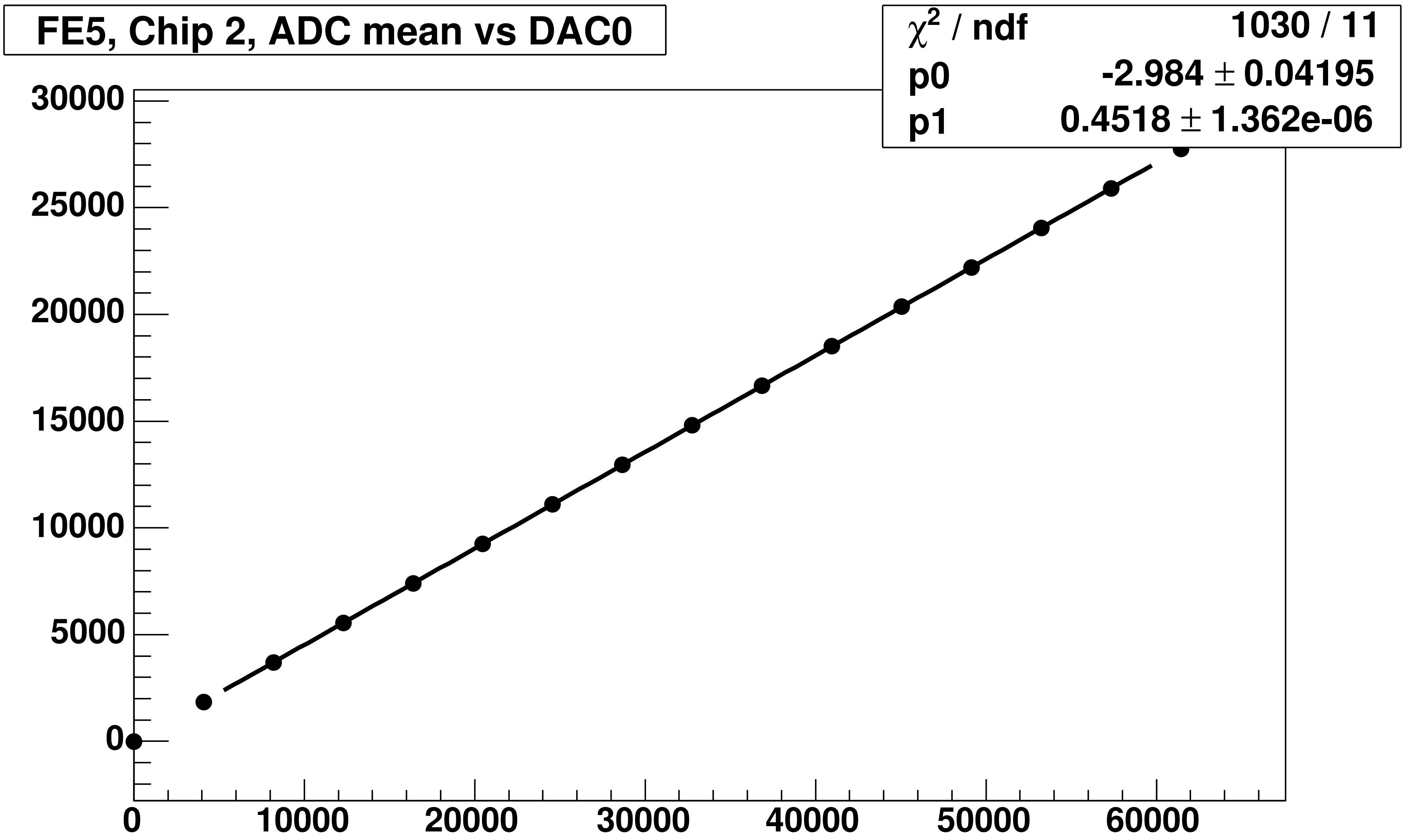


FE5, Chip 1, ADC mean vs DAC1
χ^2 / ndf 78.76 / 11
p0 -1.605 ± 0.0325
p1 -2.282e-06 ± 9.104e-07
-1.5
-1.6
-1.7
-1.8
-1.9
0
10000
20000
30000
40000
50000
60000

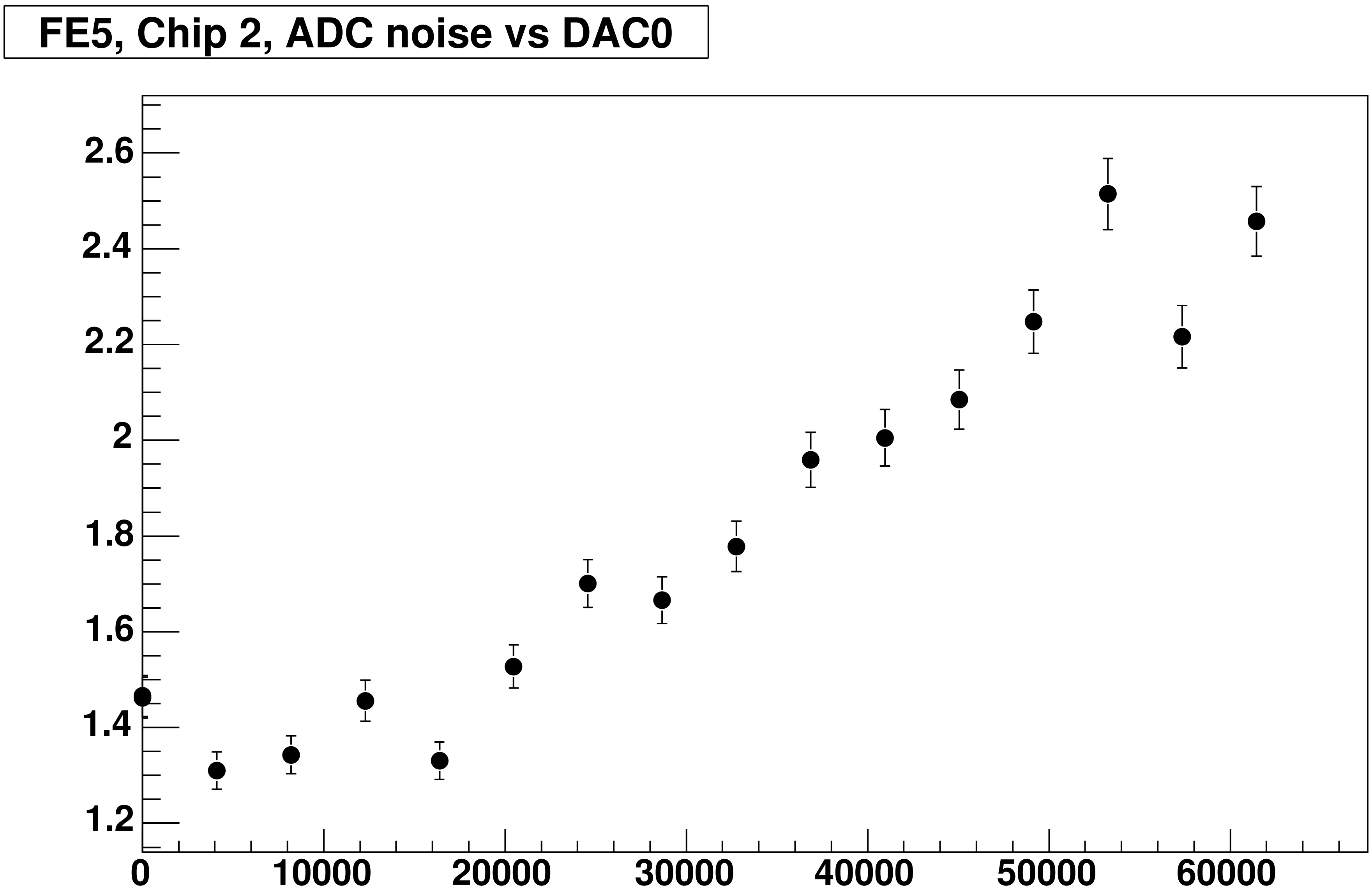

FE5, Chip 1, ADC noise vs DAC1
1.3
1.25
1.2
1.15
1.1
1.05
0
10000
20000
30000
40000
50000
60000

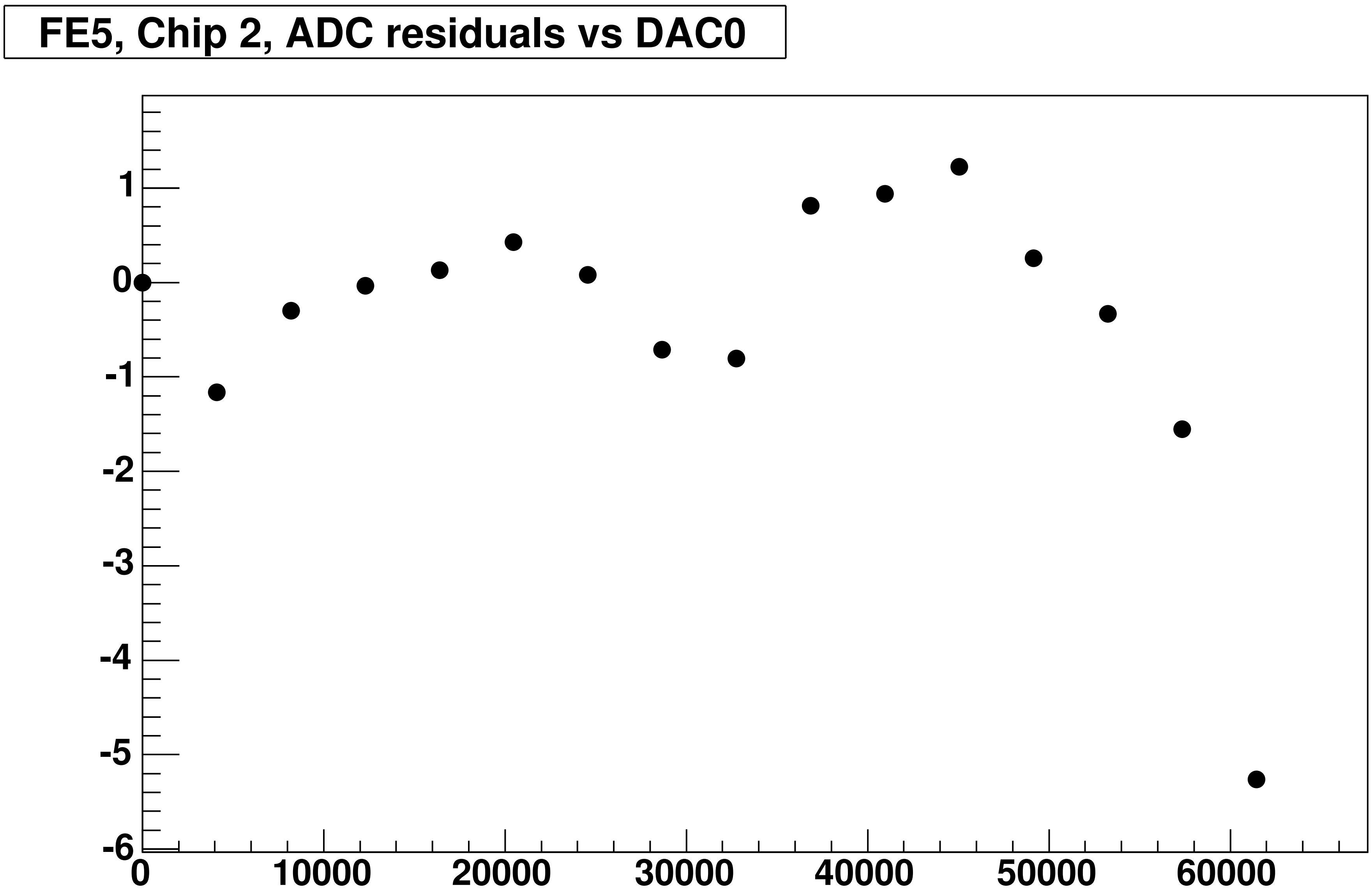


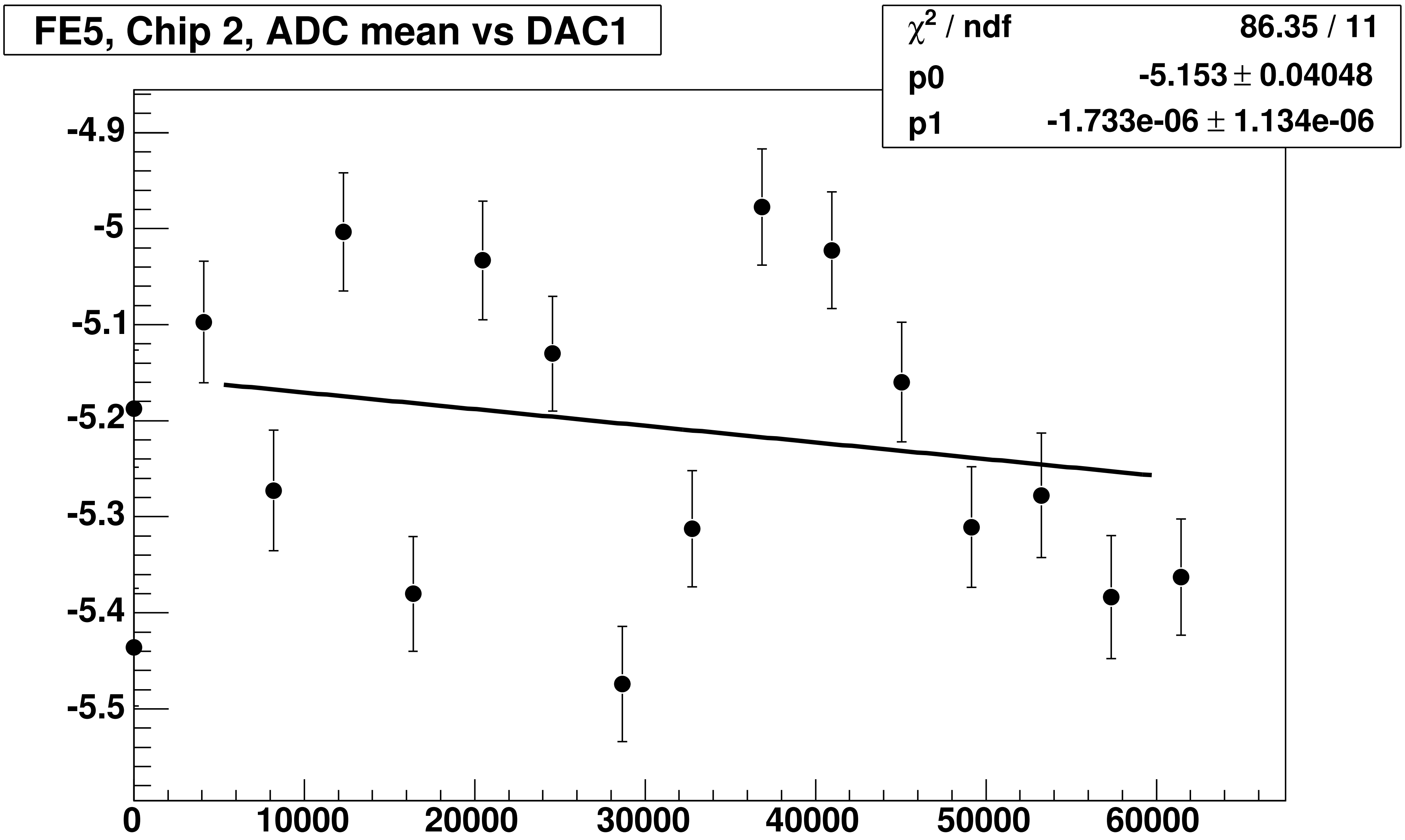
FE5, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

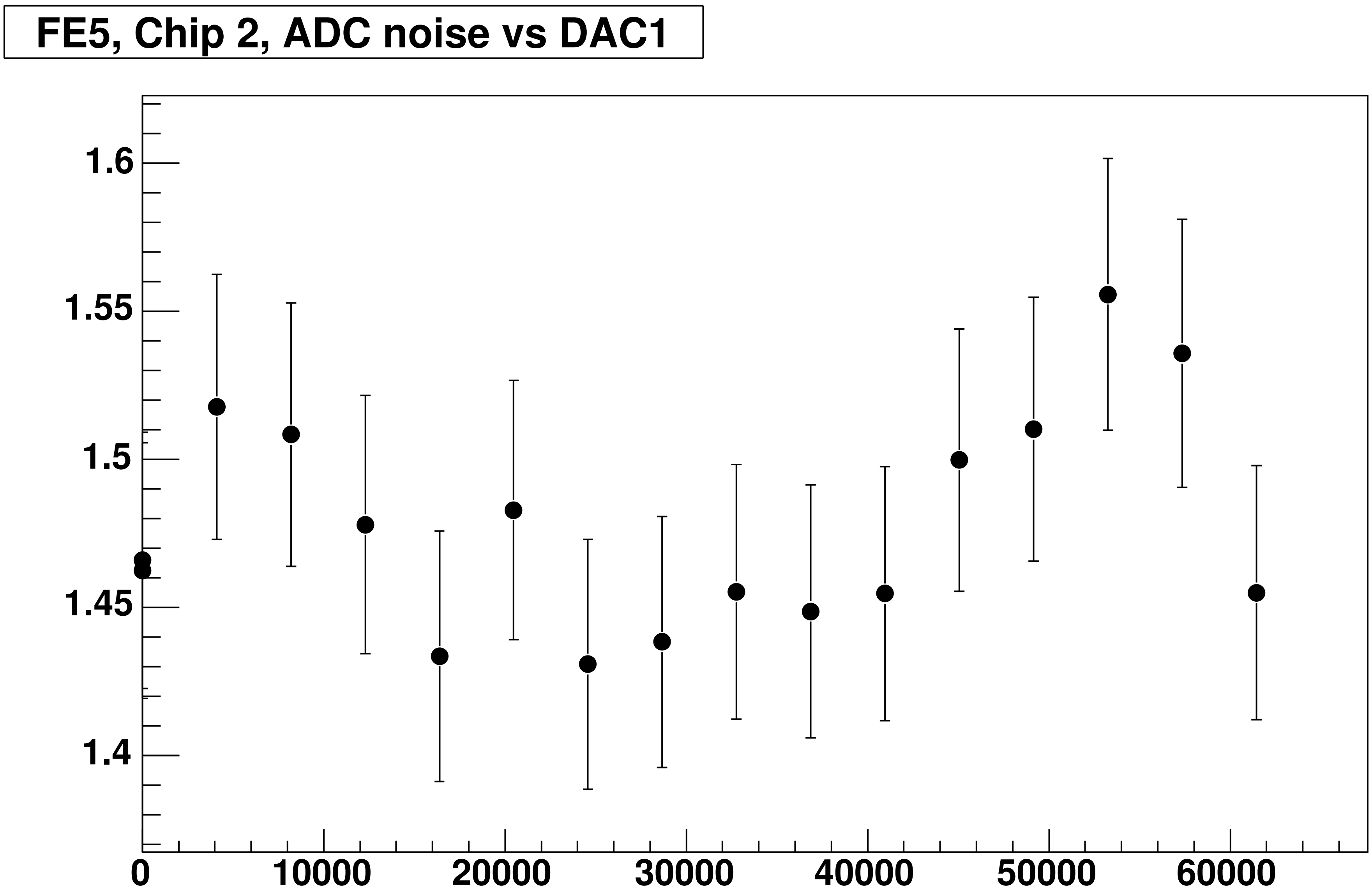


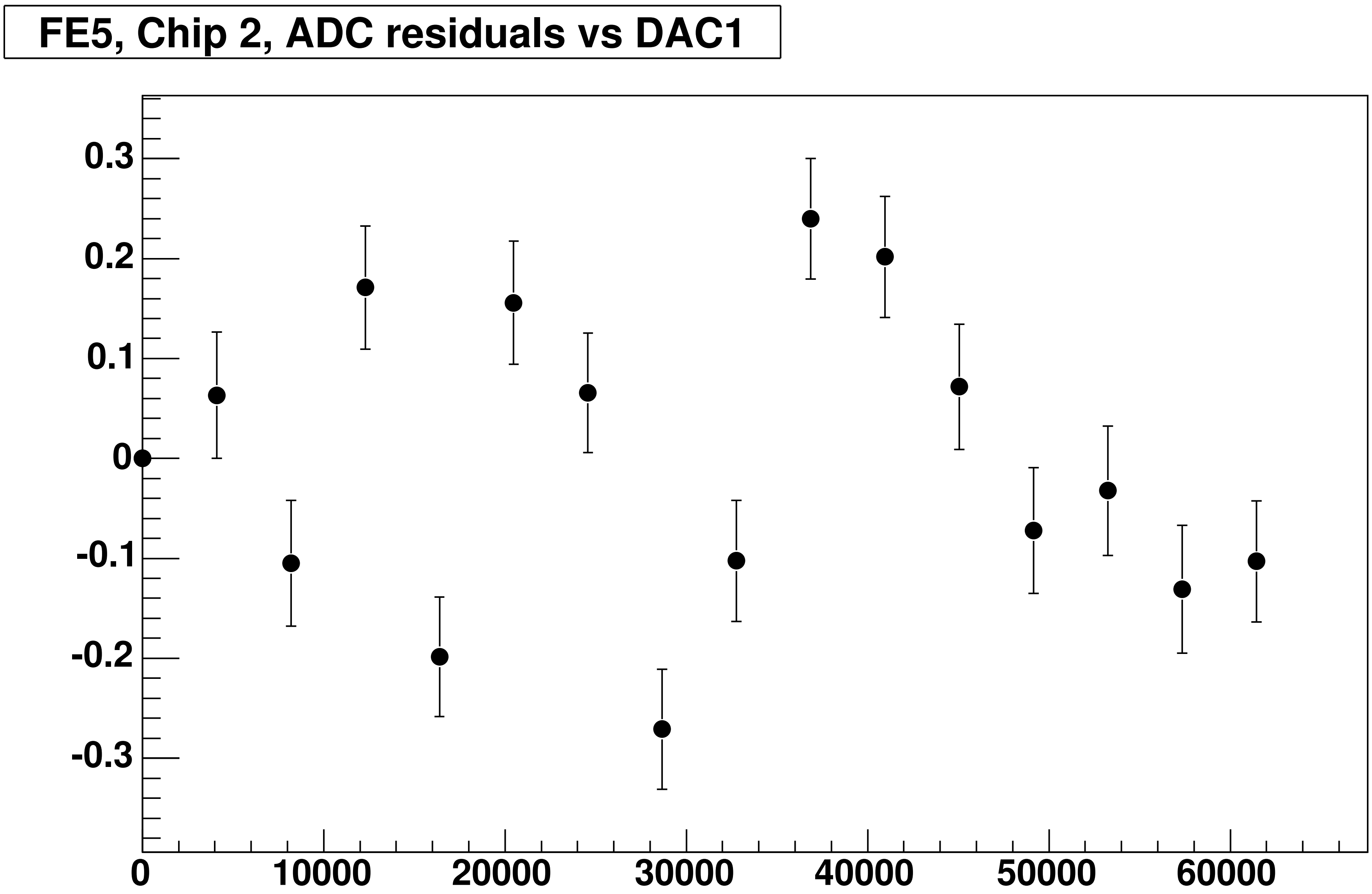
FE5, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1030 / 11
p0 -2.984 ± 0.04195
p1 0.4518 ± 1.362e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

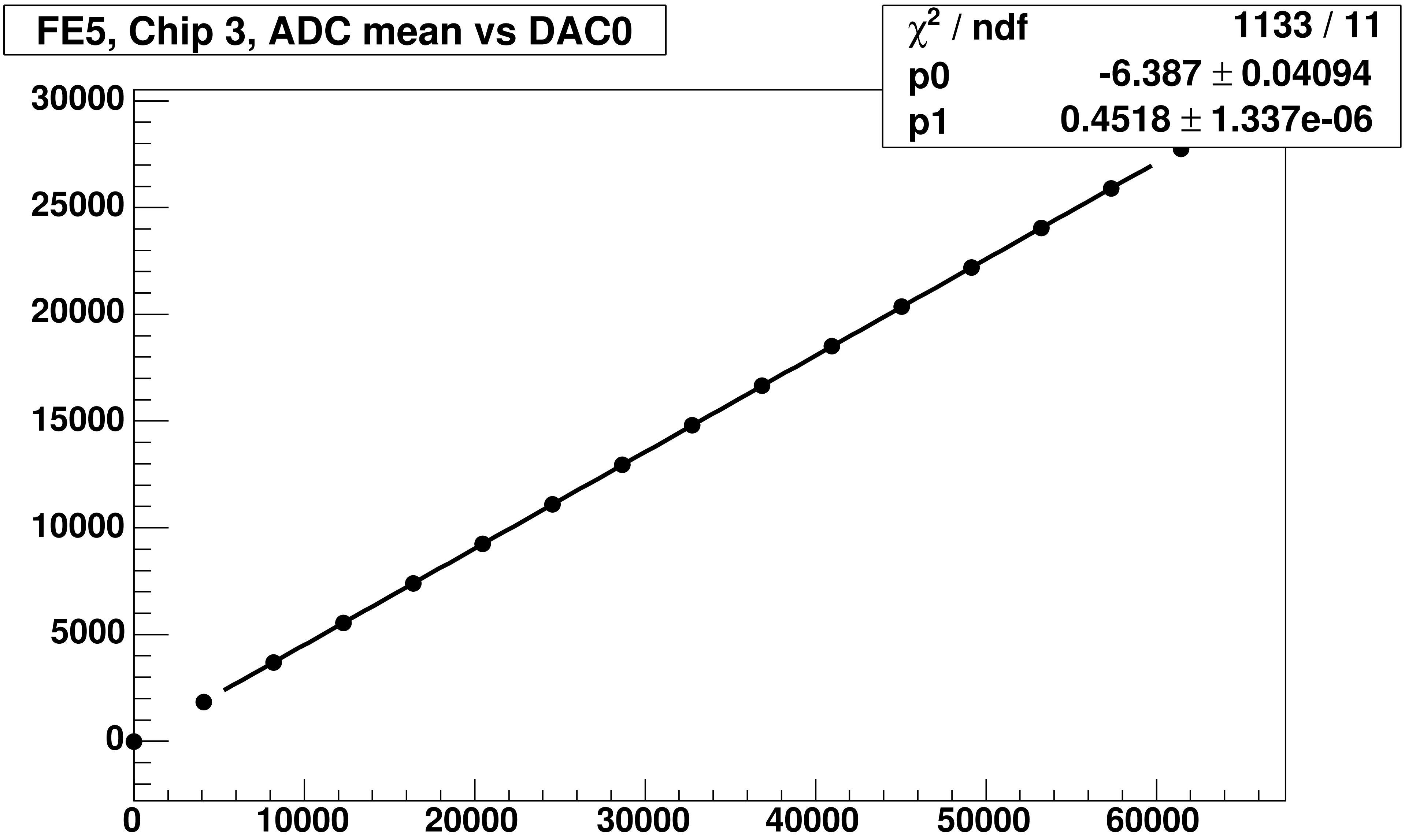

FE5, Chip 2, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

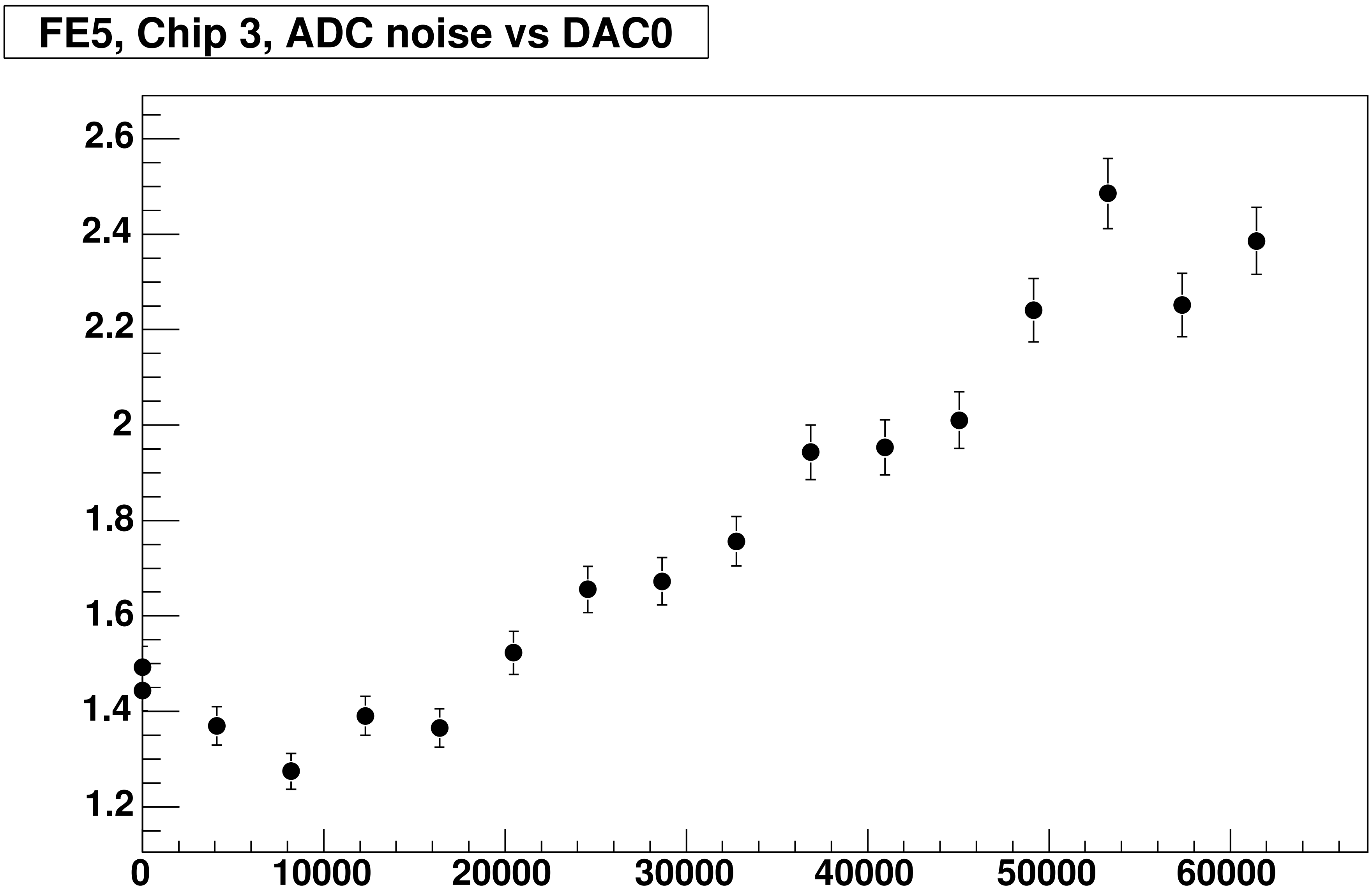

FE5, Chip 2, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

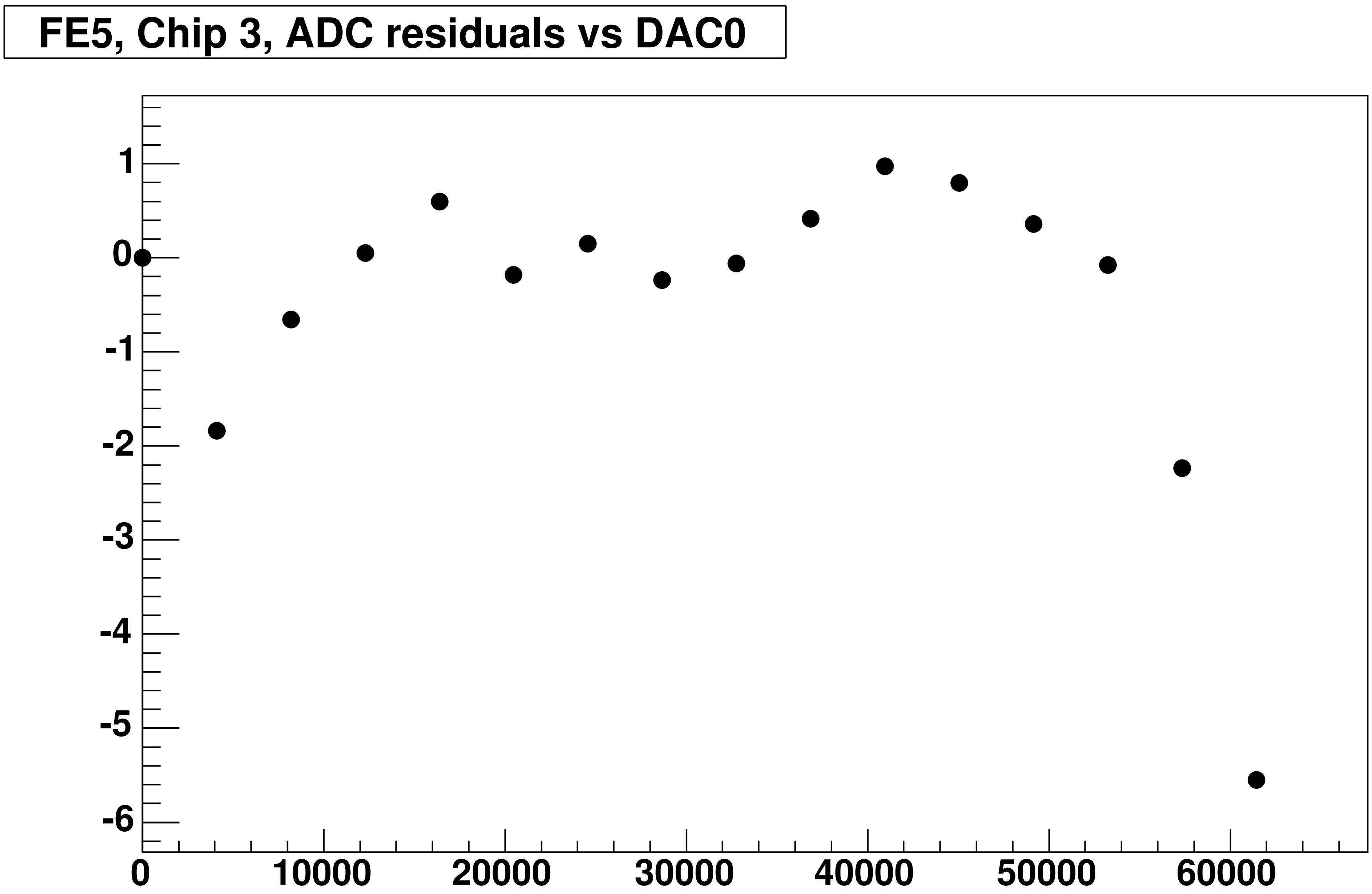

FE5, Chip 2, ADC mean vs DAC1
χ^2 / ndf 86.35 / 11
p0 -5.153 ± 0.04048
p1 -1.733e-06 ± 1.134e-06
-4.9
-5
-5.1
-5.2
-5.3
-5.4
-5.5
0
10000
20000
30000
40000
50000
60000

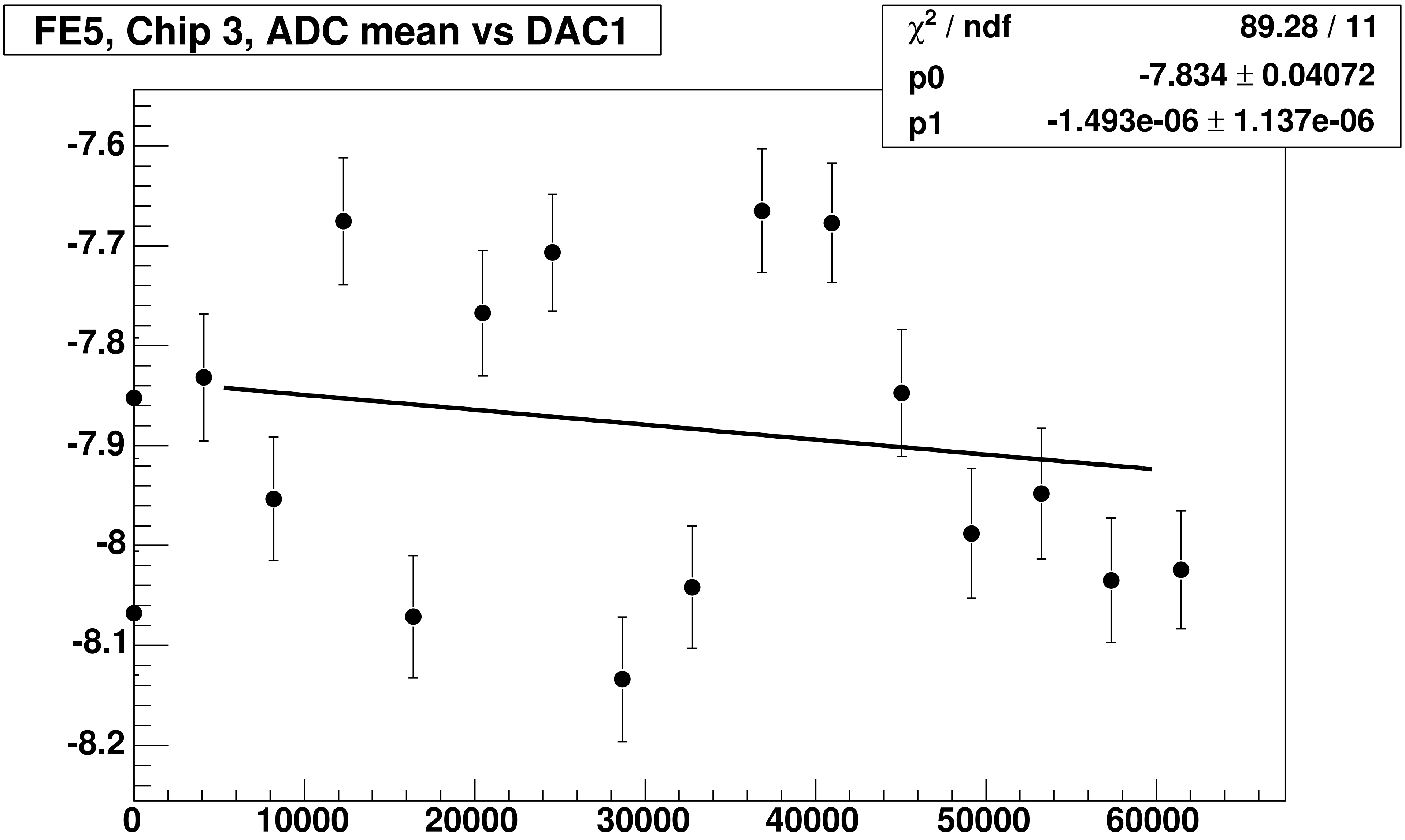

FE5, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


FE5, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

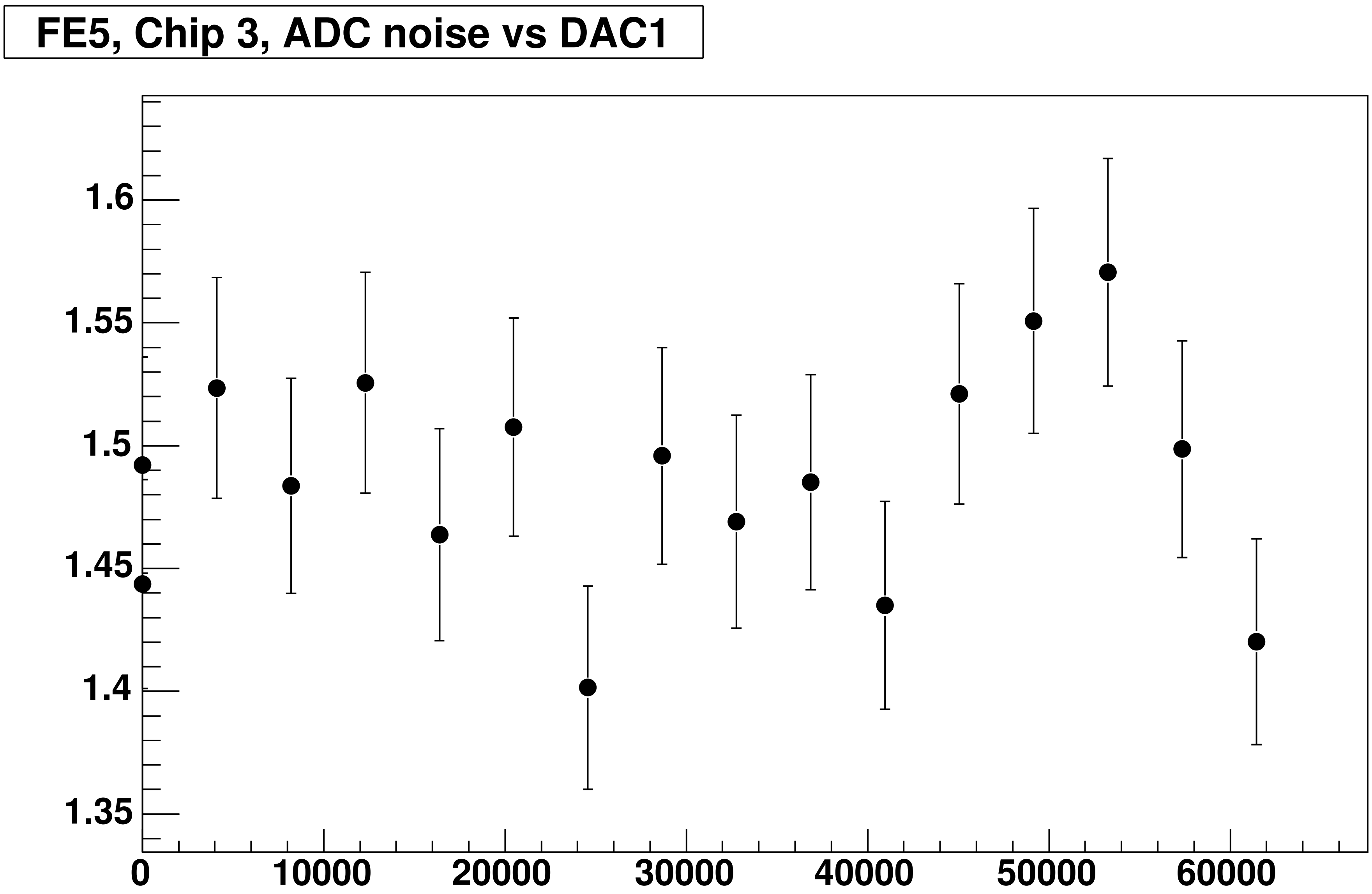

FE5, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1133 / 11
p0 -6.387 ± 0.04094
p1 0.4518 ± 1.337e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

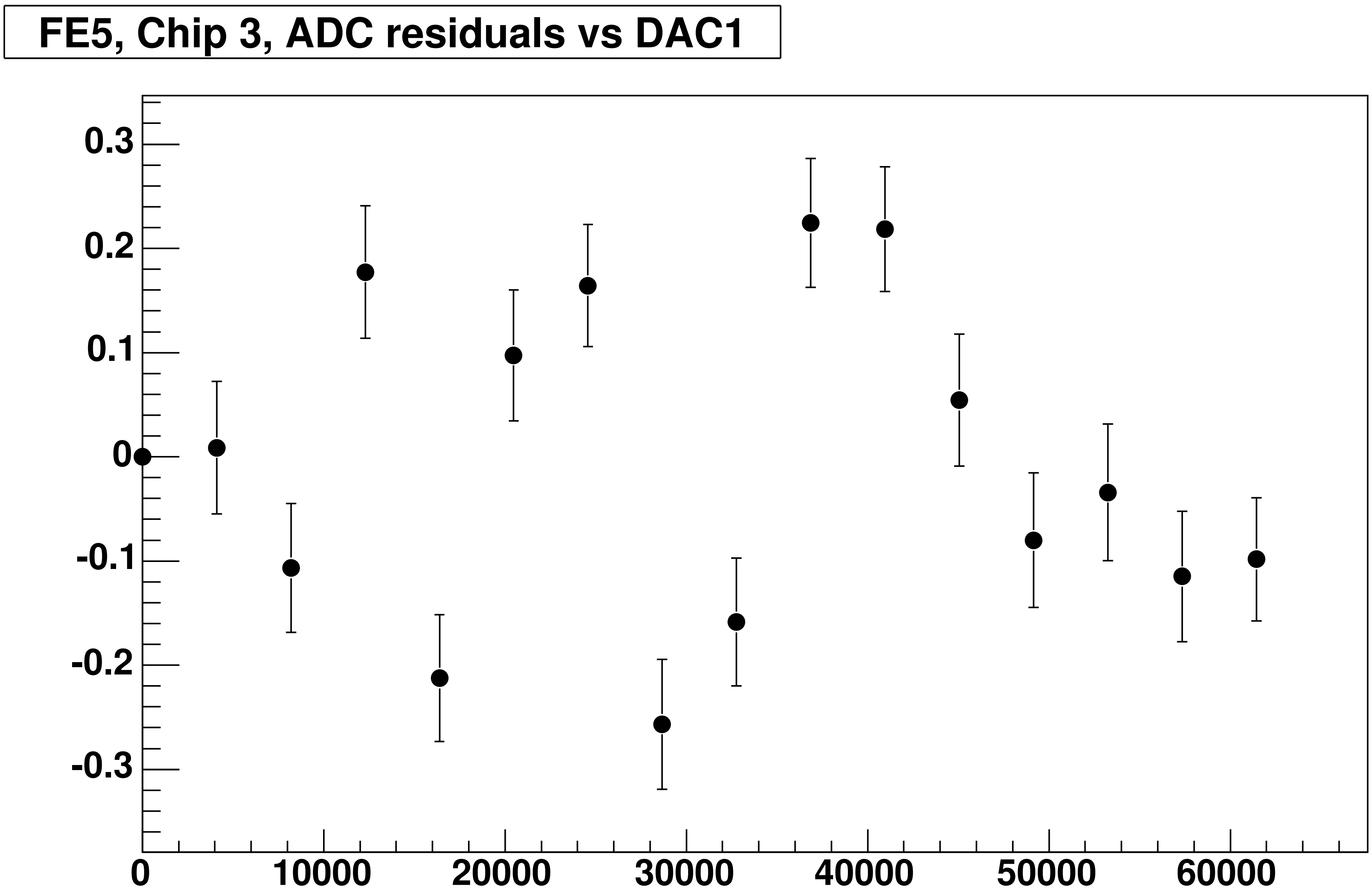

FE5, Chip 3, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE5, Chip 3, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

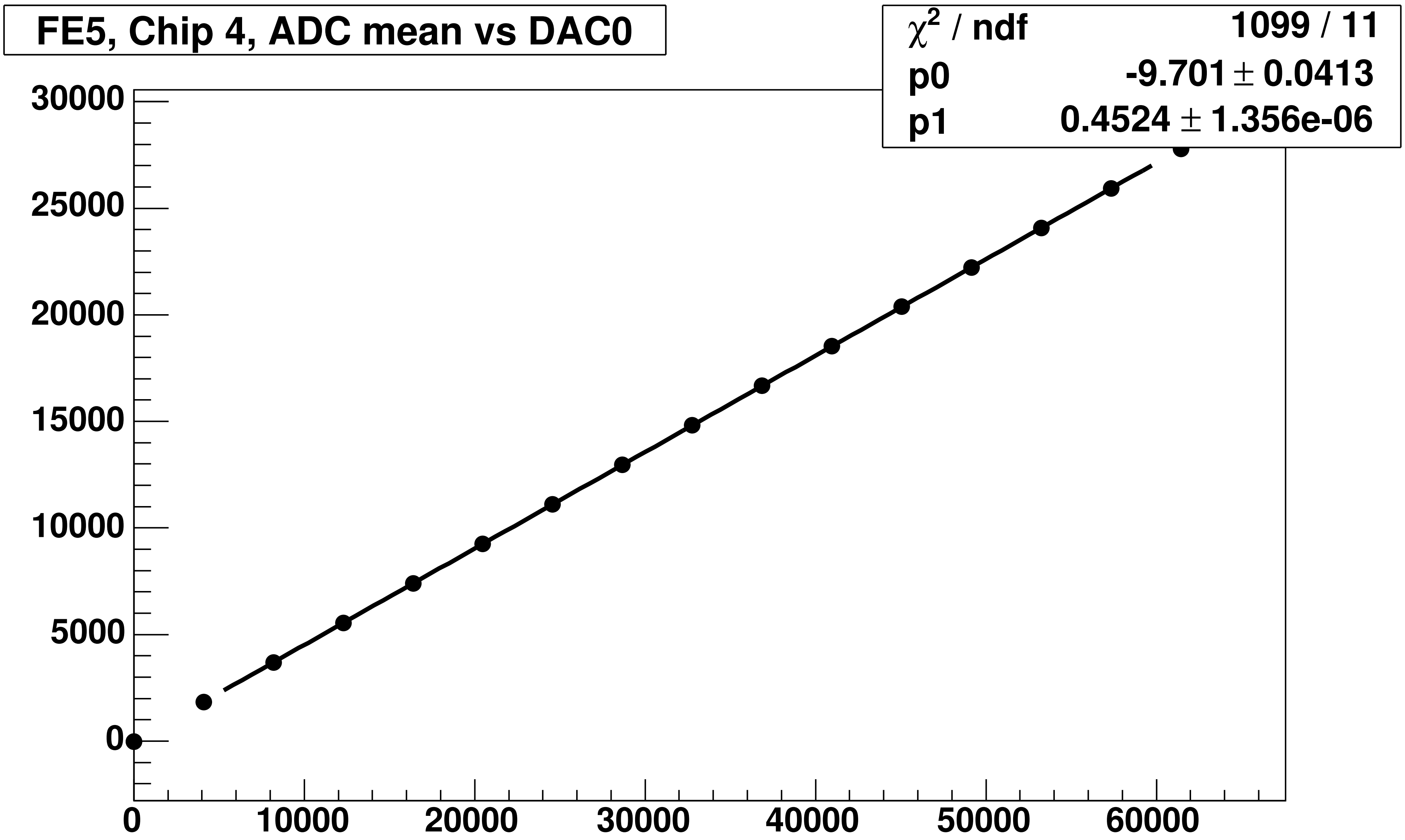


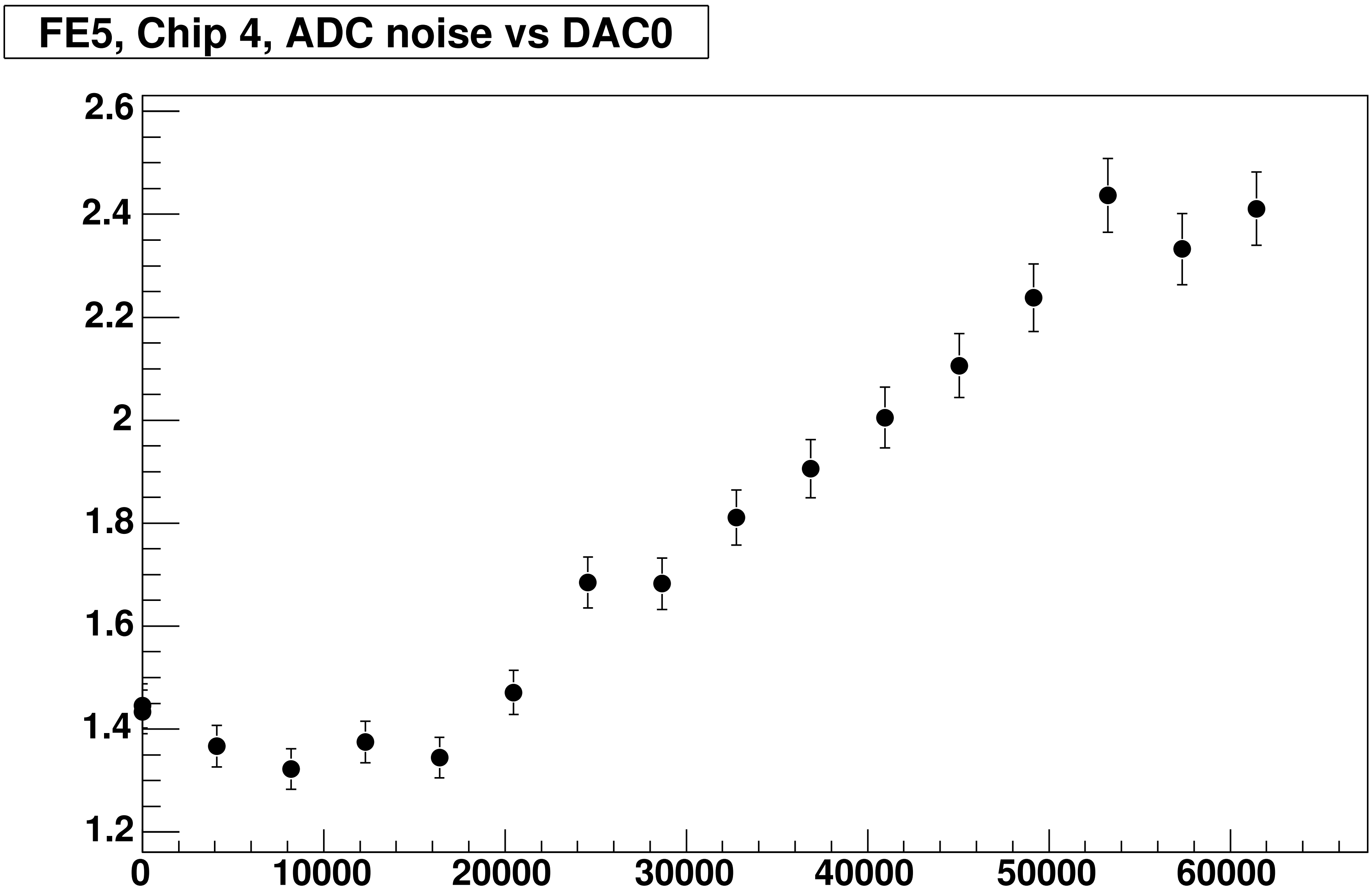
FE5, Chip 3, ADC mean vs DAC1
χ^2 / ndf 89.28 / 11
p0 -7.834 ± 0.04072
p1 -1.493e-06 ± 1.137e-06
-7.6
-7.7
-7.8
-7.9
-8
-8.1
-8.2
0
10000
20000
30000
40000
50000
60000

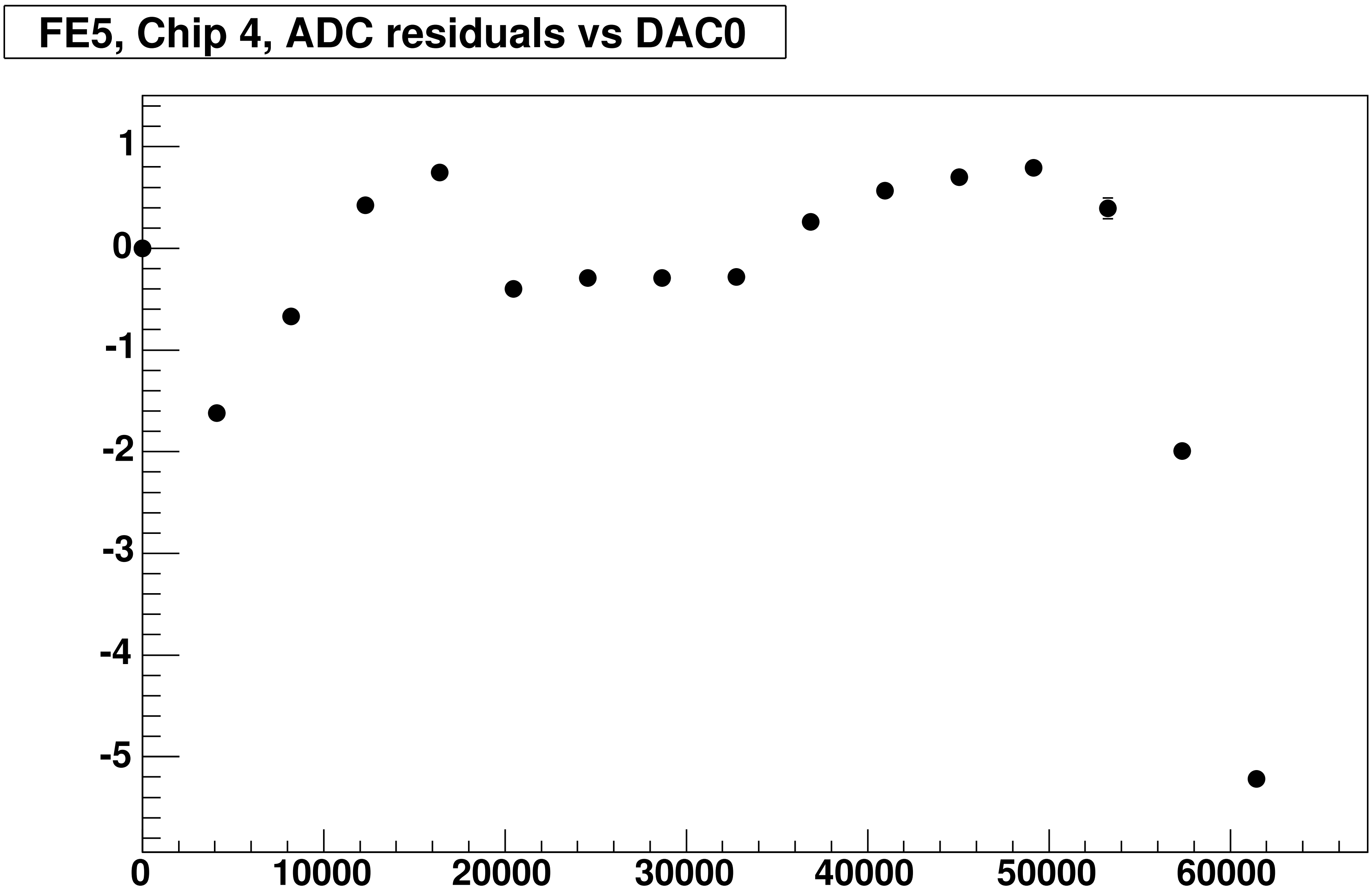

FE5, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

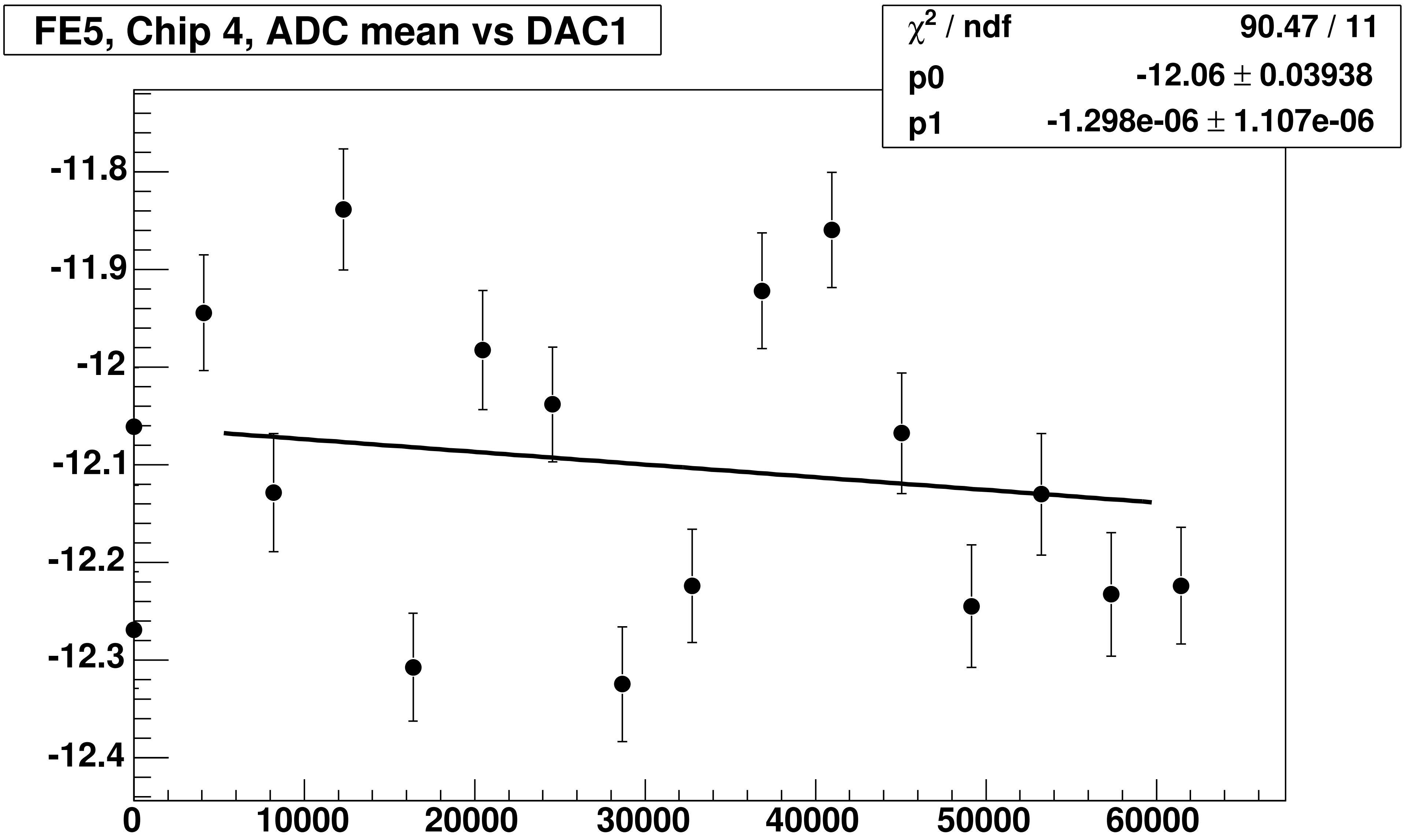


FE5, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

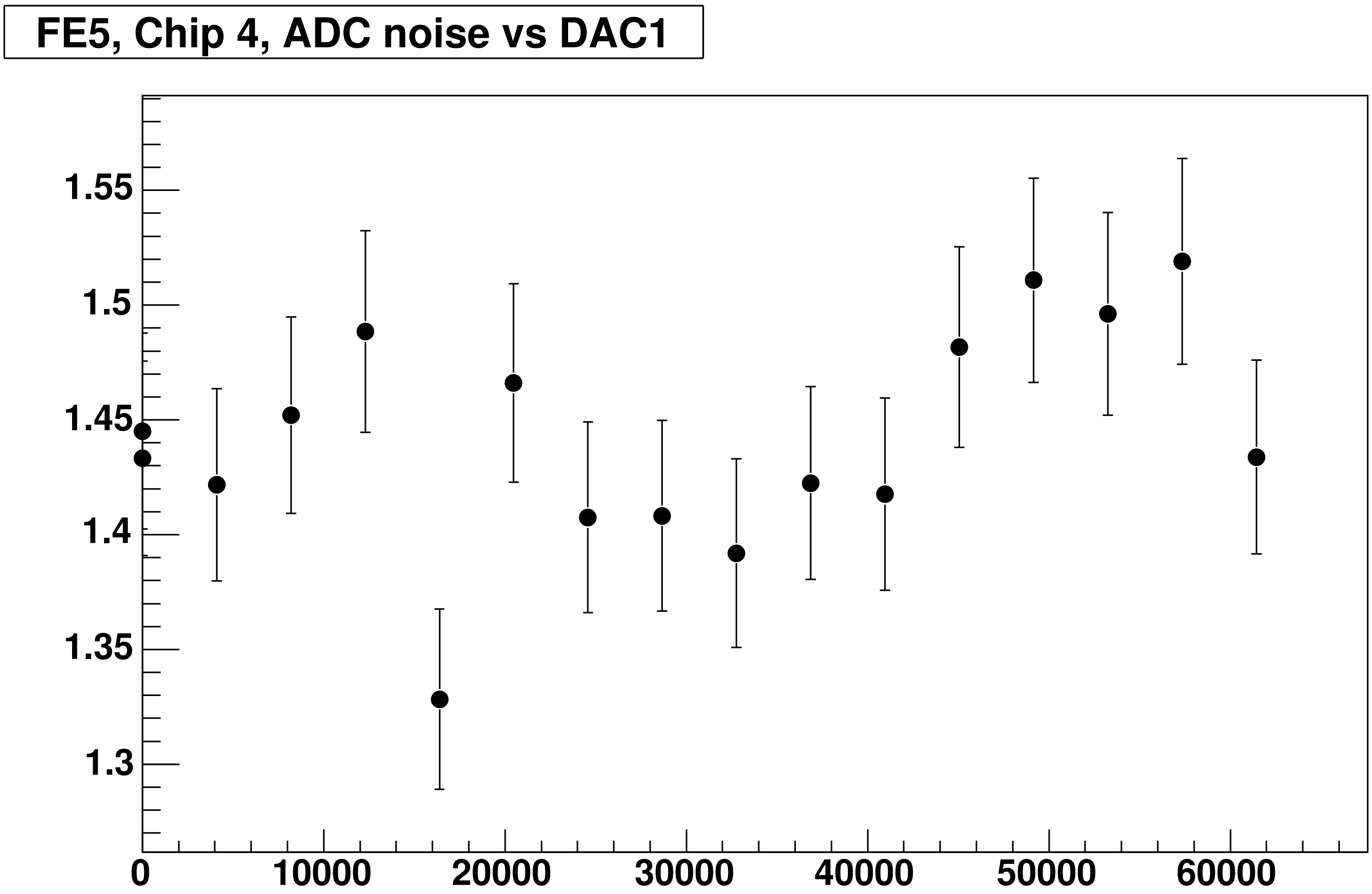

FE5, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1099 / 11
p0 -9.701 ± 0.0413
p1 0.4524 ± 1.356e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

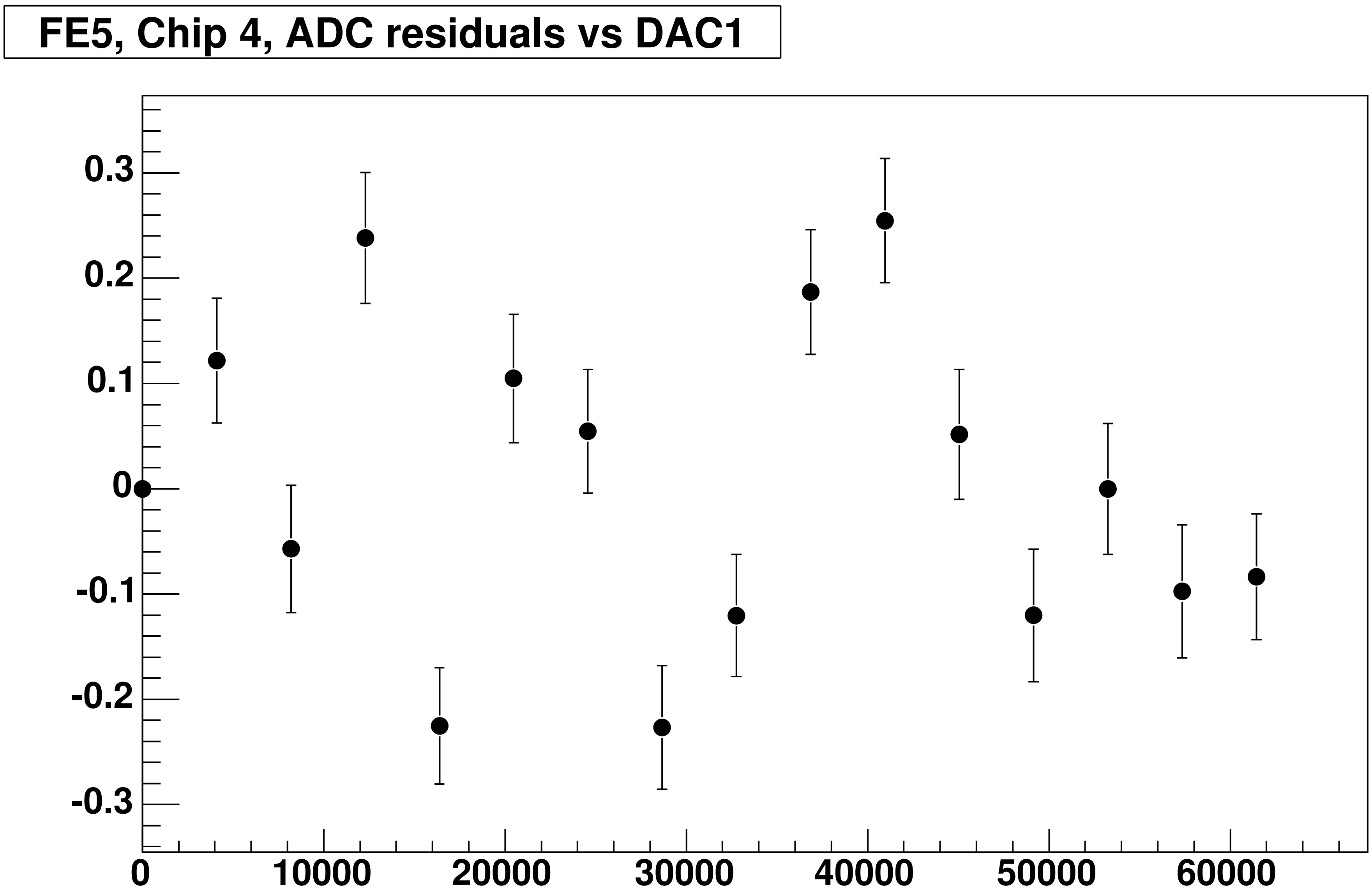

FE5, Chip 4, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

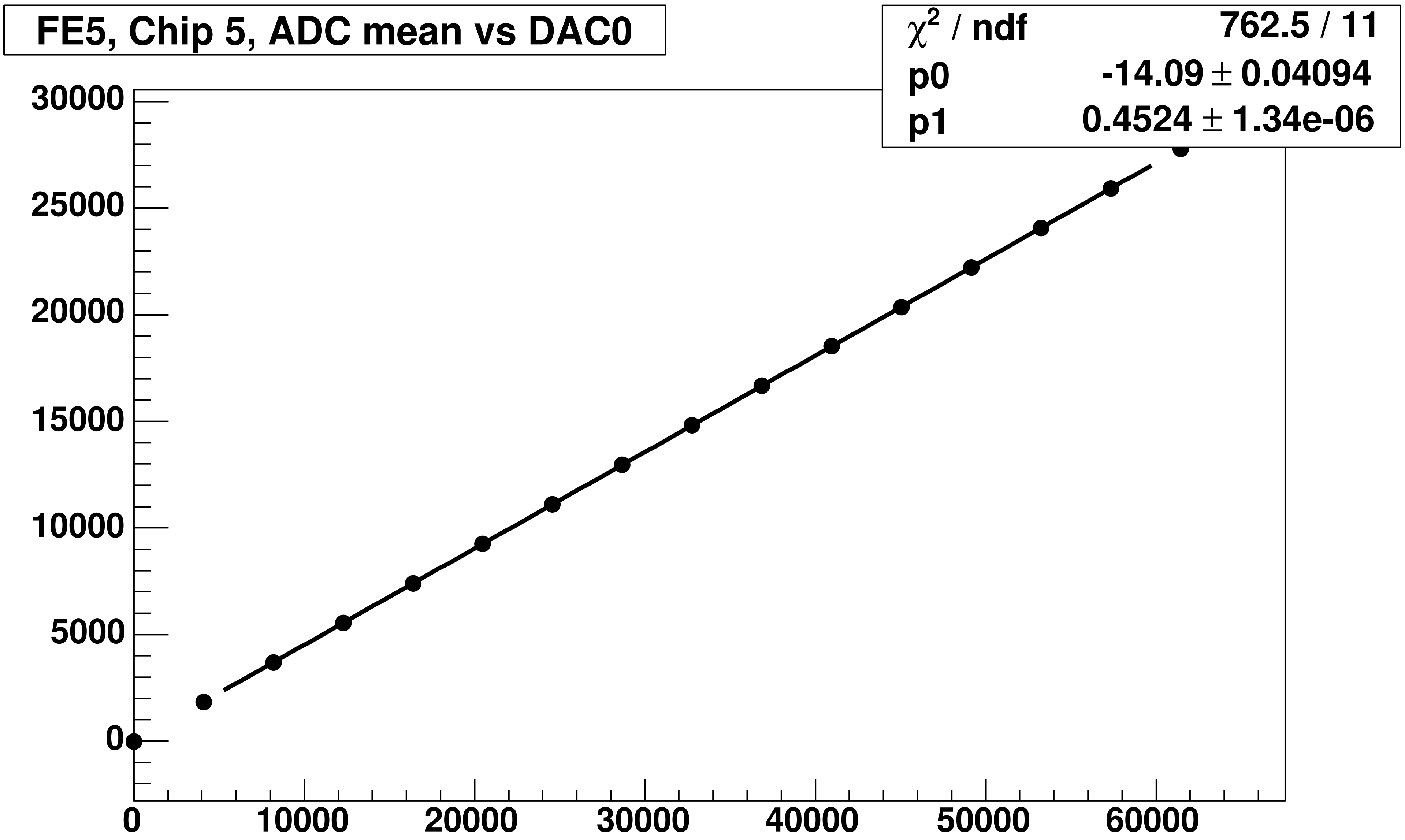

FE5, Chip 4, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



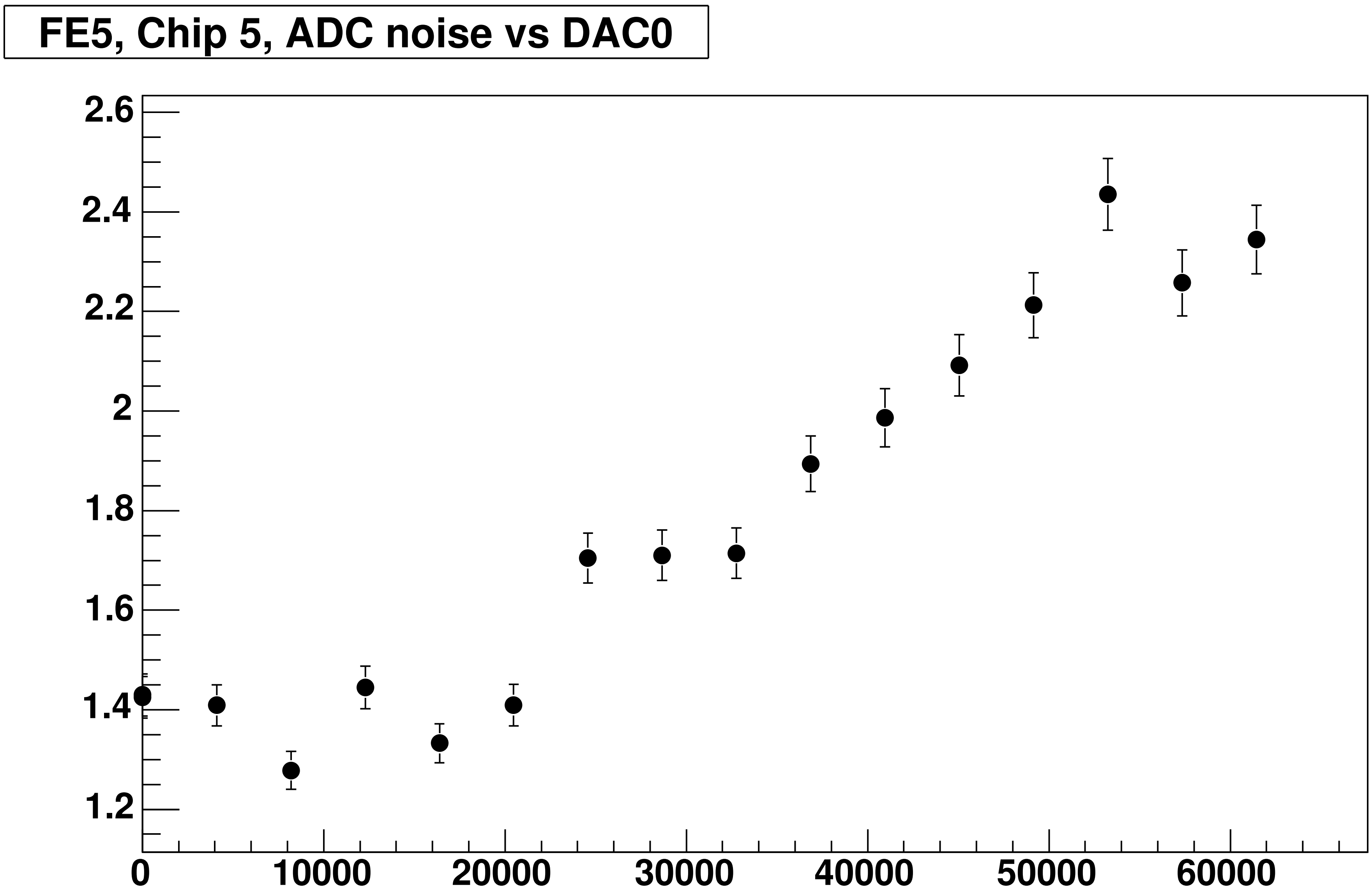
FE5, Chip 4, ADC mean vs DAC1
χ^2 / ndf 90.47 / 11
p0 -12.06 ± 0.03938
p1 -1.298e-06 ± 1.107e-06
-11.8
-11.9
-12
-12.1
-12.2
-12.3
-12.4
0
10000
20000
30000
40000
50000
60000


FE5, Chip 4, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

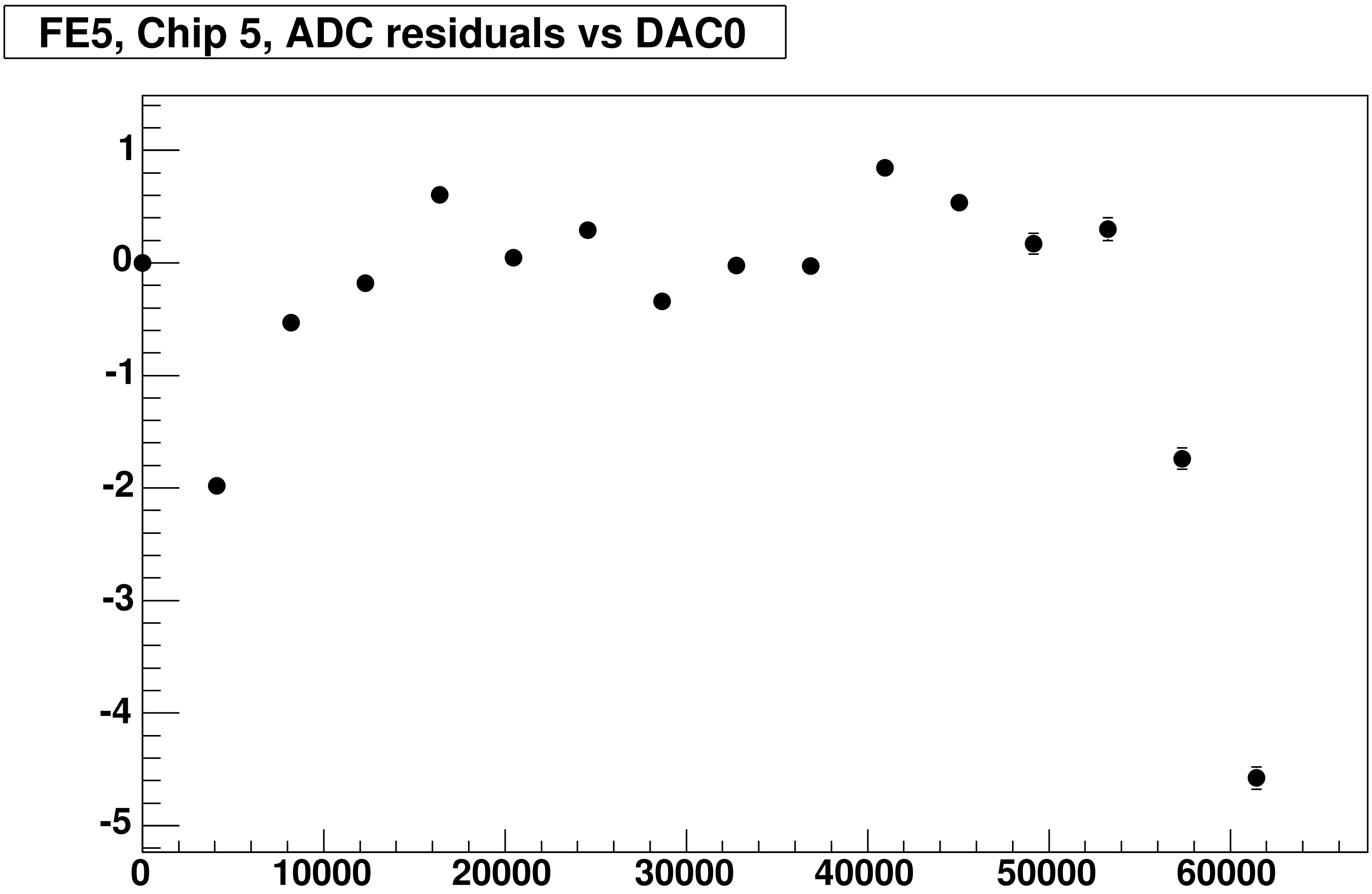

FE5, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



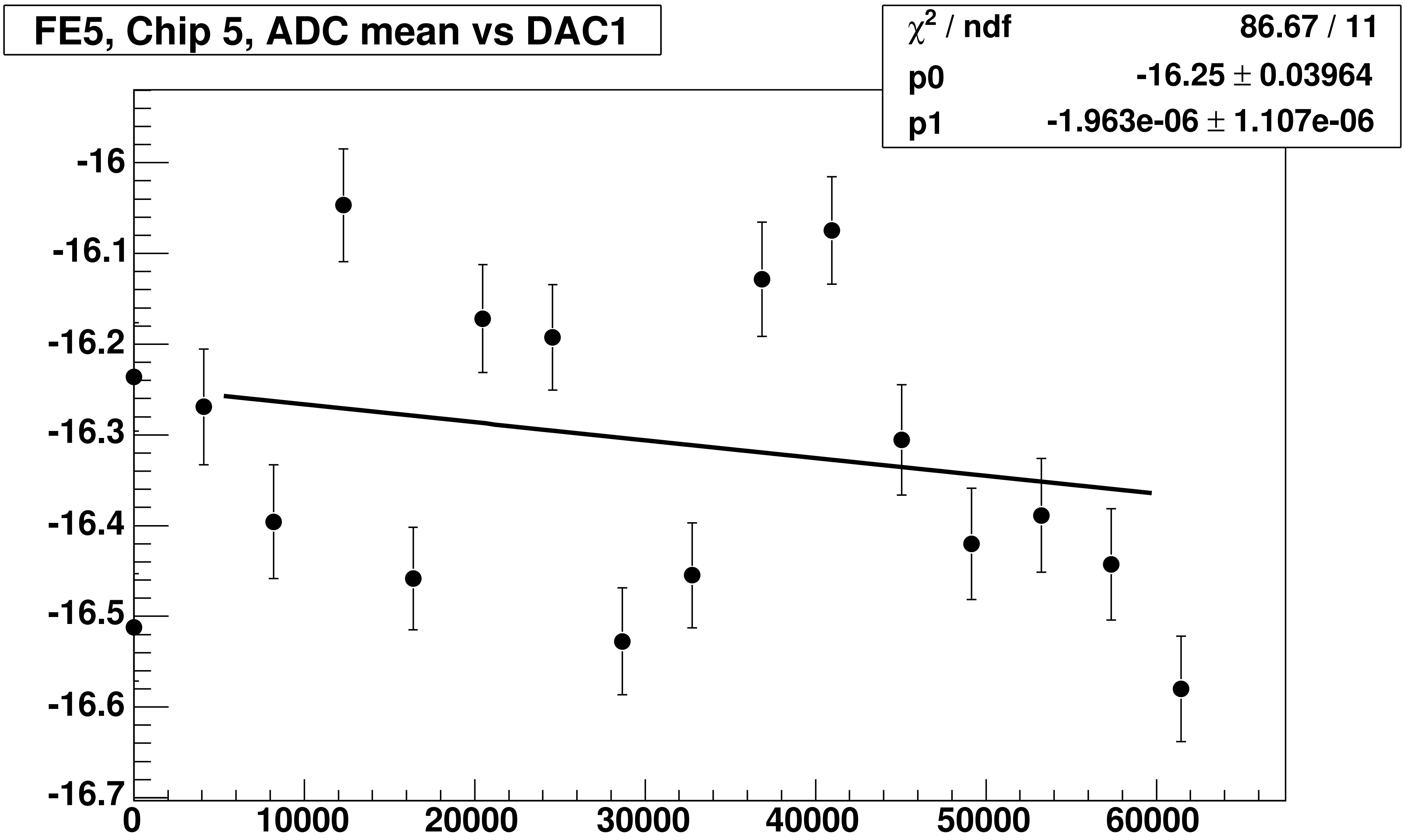
FE5, Chip 5, ADC mean vs DAC0
χ^2 / ndf 762.5 / 11
p0 -14.09 ± 0.04094
p1 0.4524 ± 1.34e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



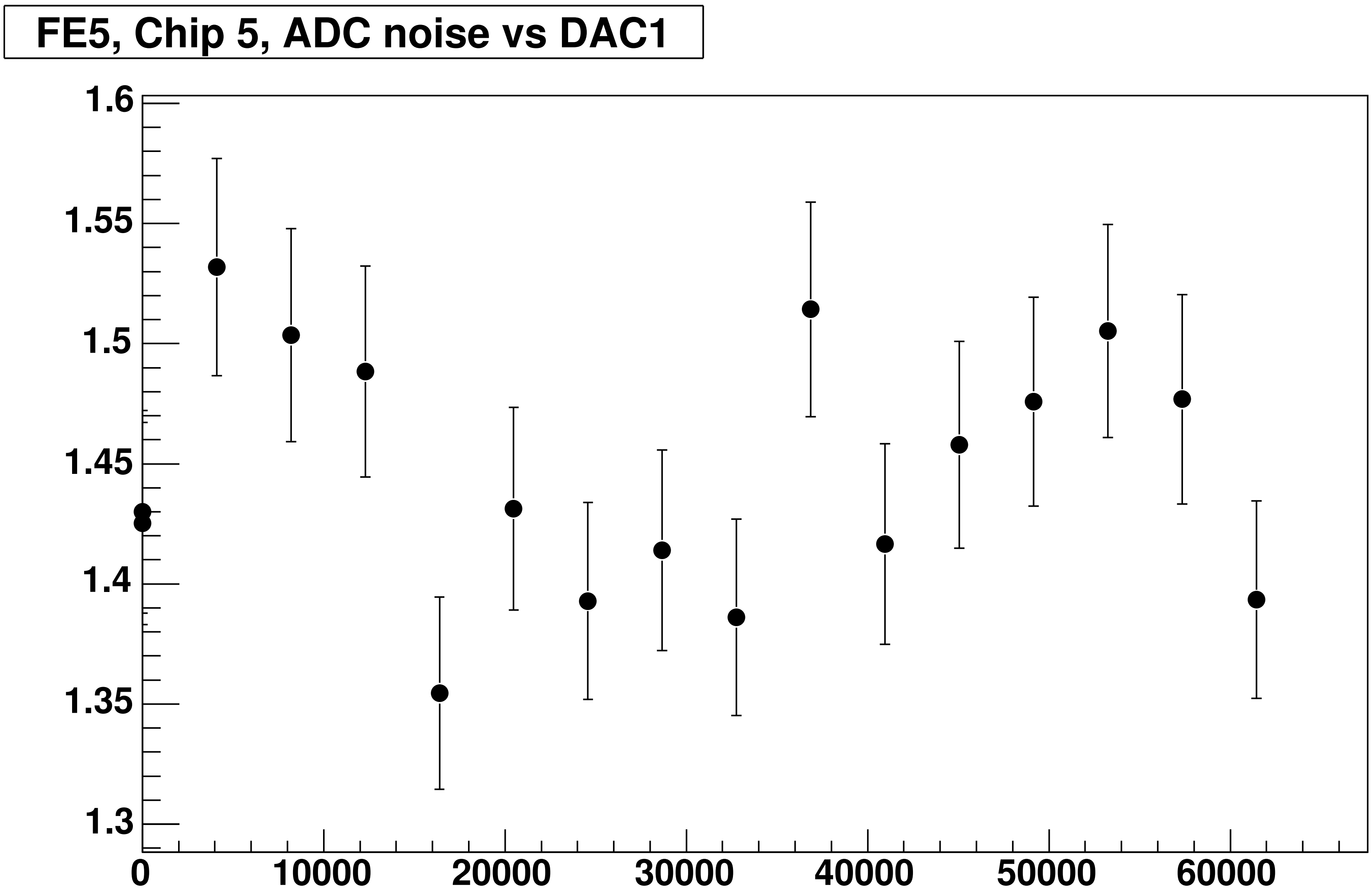
FE5, Chip 5, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

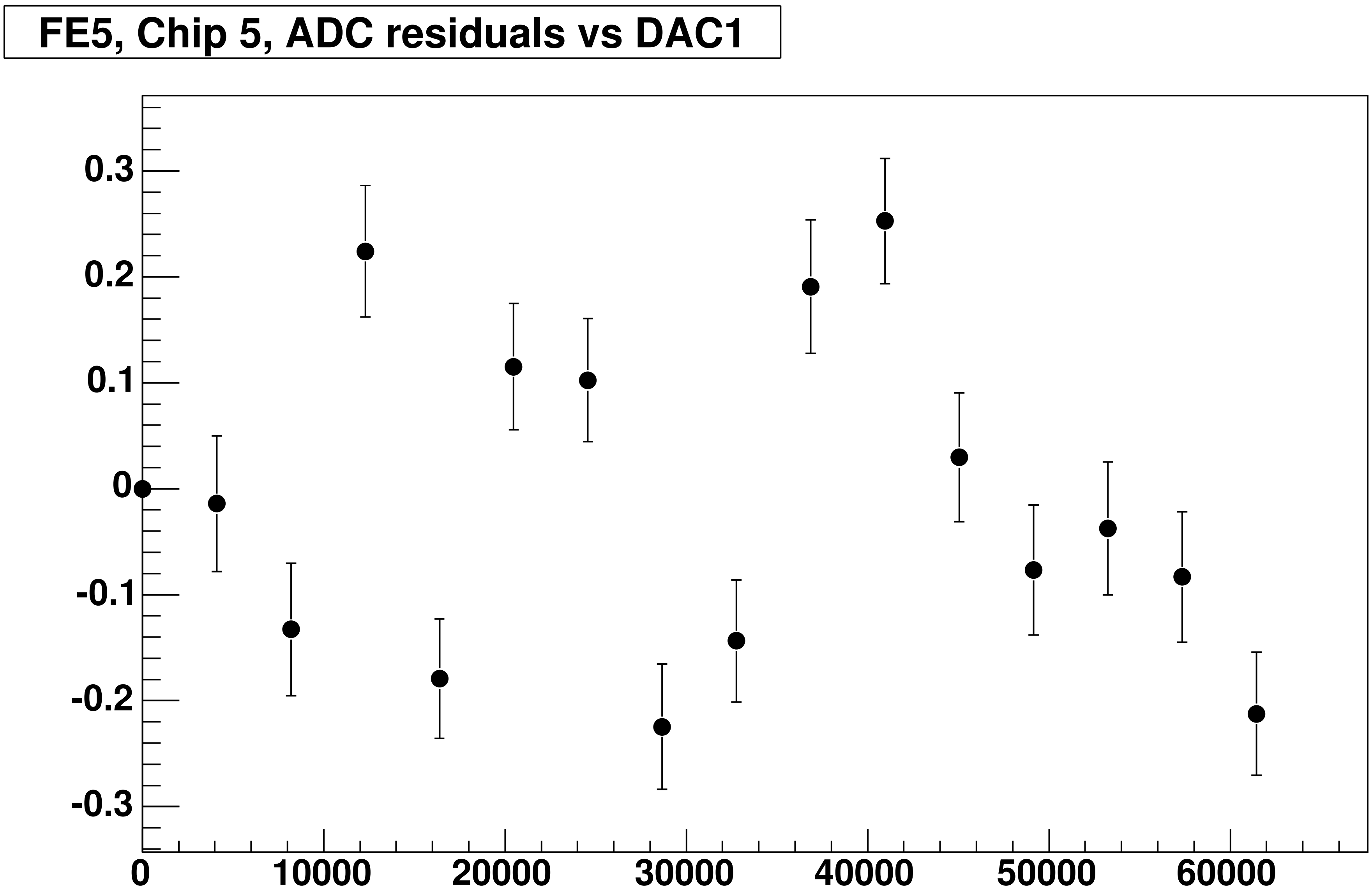


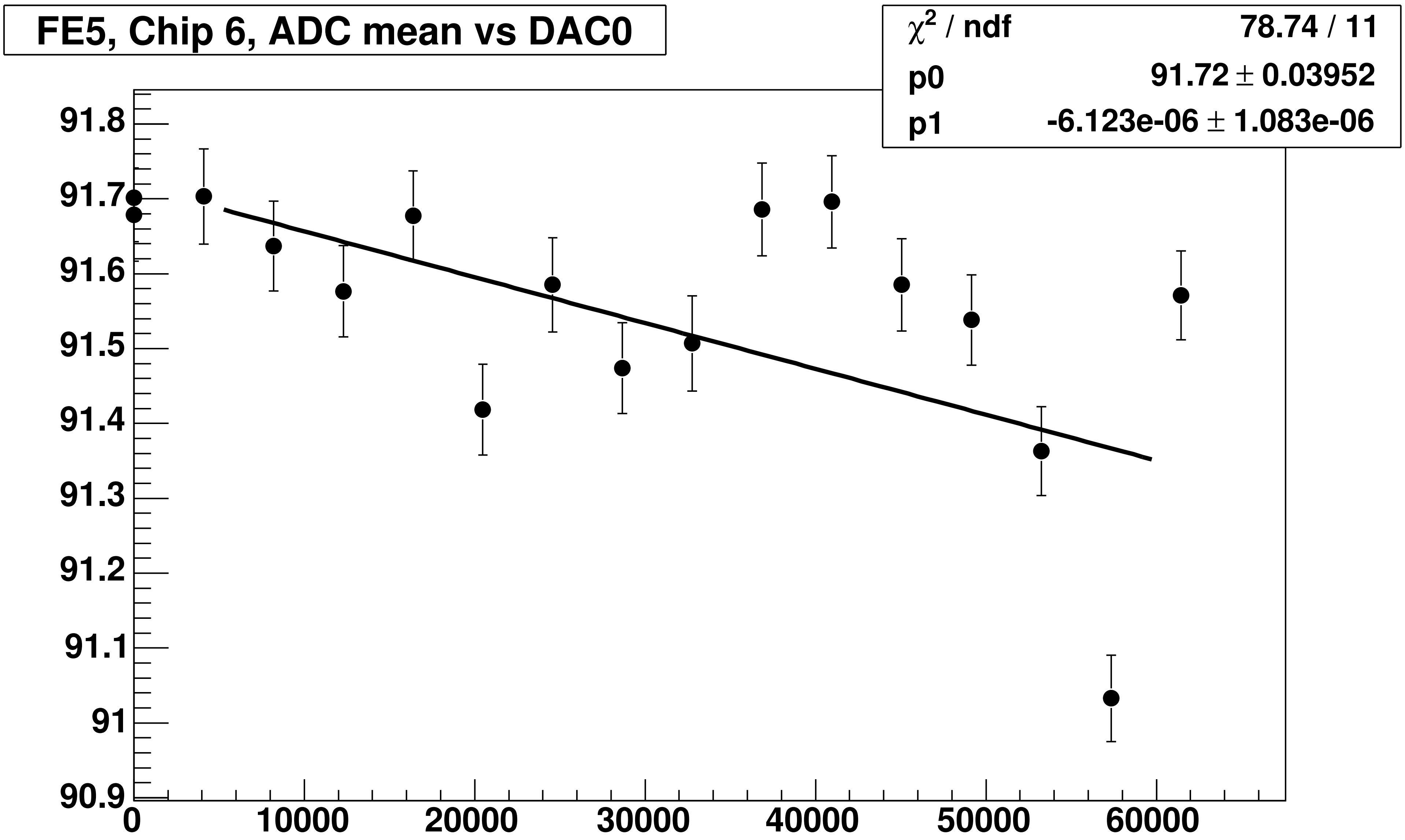
FE5, Chip 5, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



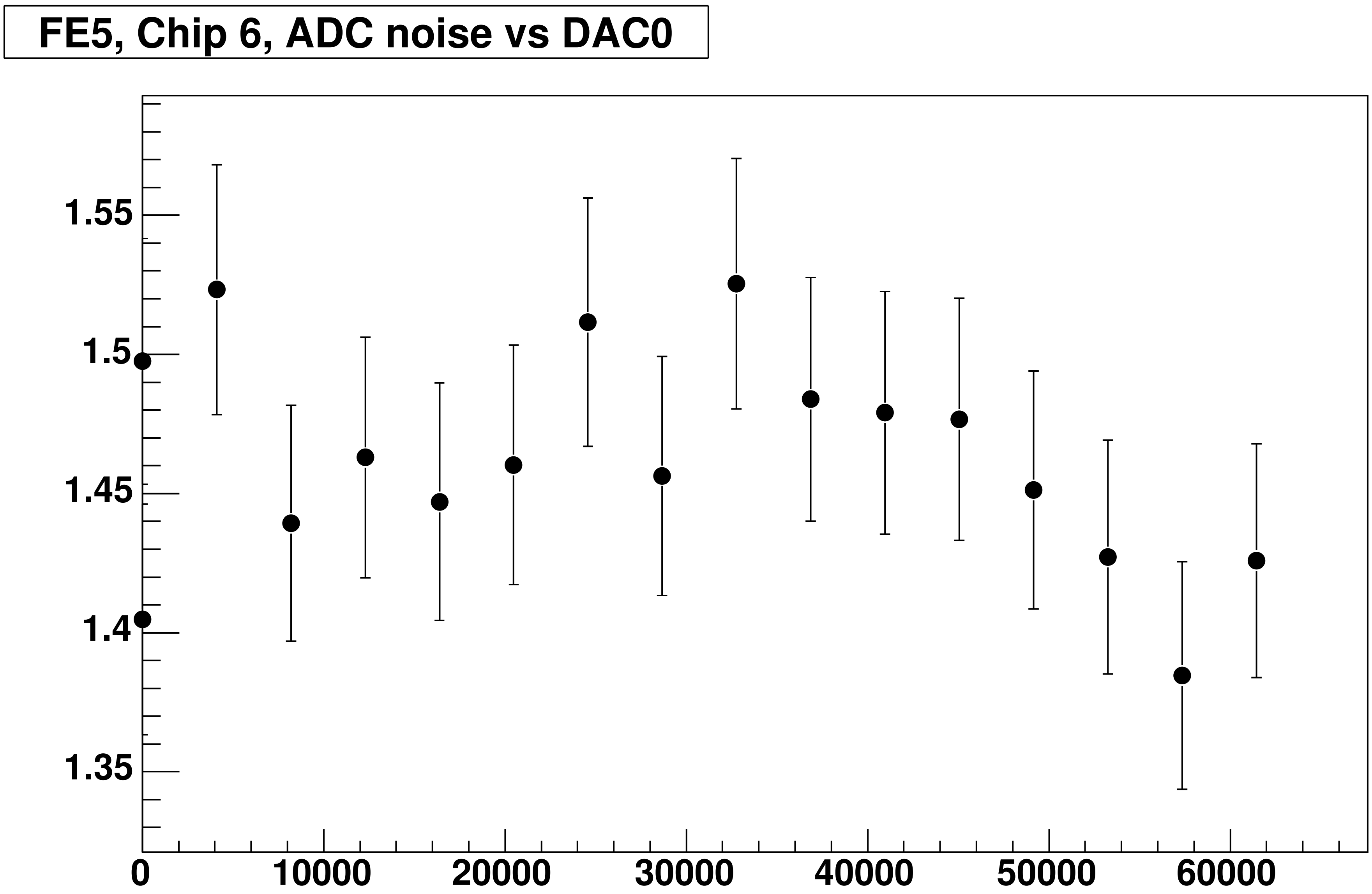
FE5, Chip 5, ADC mean vs DAC1
χ^2 / ndf 86.67 / 11
p0 -16.25 ± 0.03964
p1 -1.963e-06 ± 1.107e-06
-16
-16.1
-16.2
-16.3
-16.4
-16.5
-16.6
-16.7
0
10000
20000
30000
40000
50000
60000


FE5, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

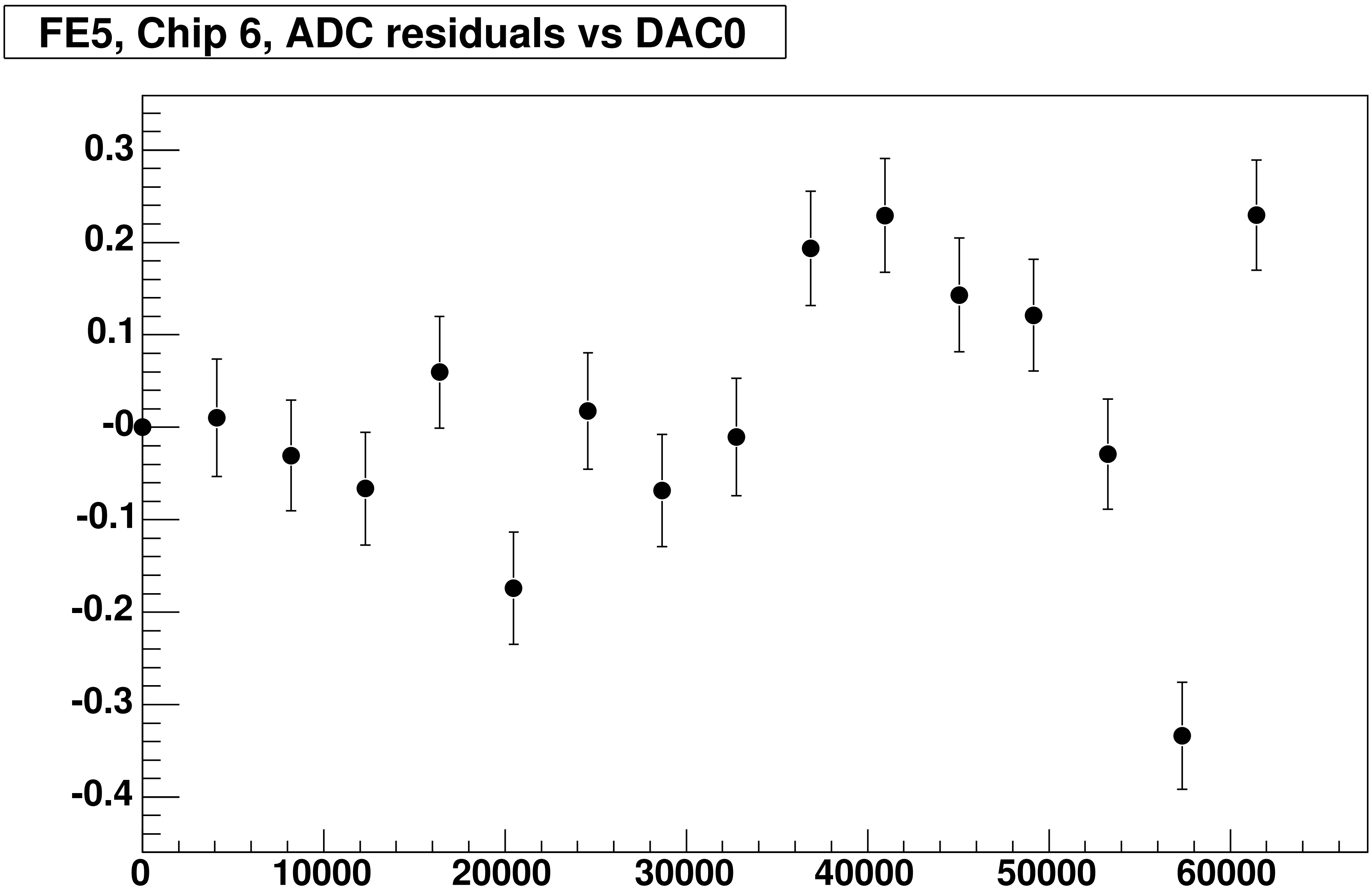

FE5, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

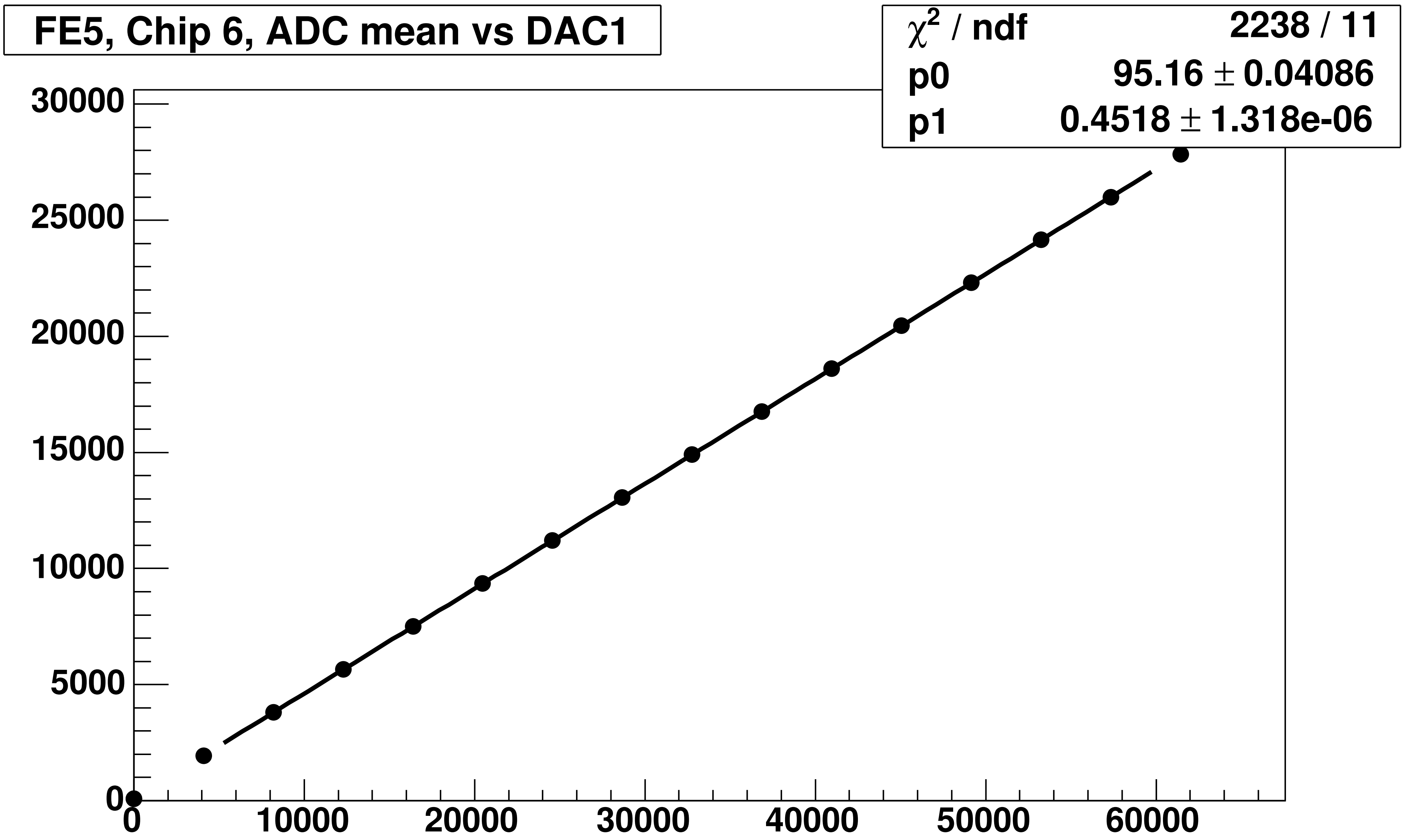


FE5, Chip 6, ADC mean vs DAC0
χ^2 / ndf 78.74 / 11
p0 91.72 ± 0.03952
p1 -6.123e-06 ± 1.083e-06
91.8
91.7
91.6
91.5
91.4
91.3
91.2
91.1
91
90.9
0
10000
20000
30000
40000
50000
60000

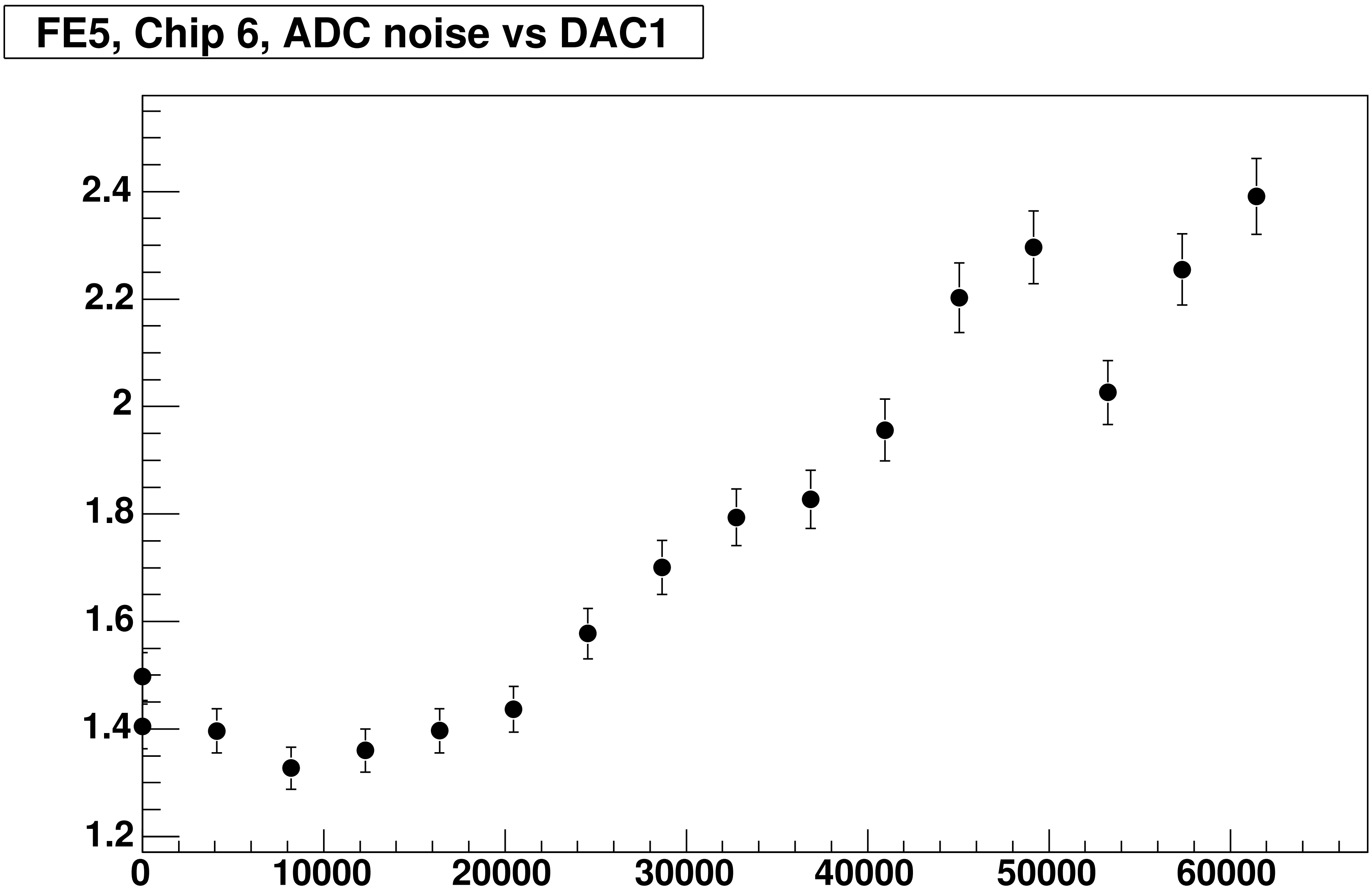


FE5, Chip 6, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

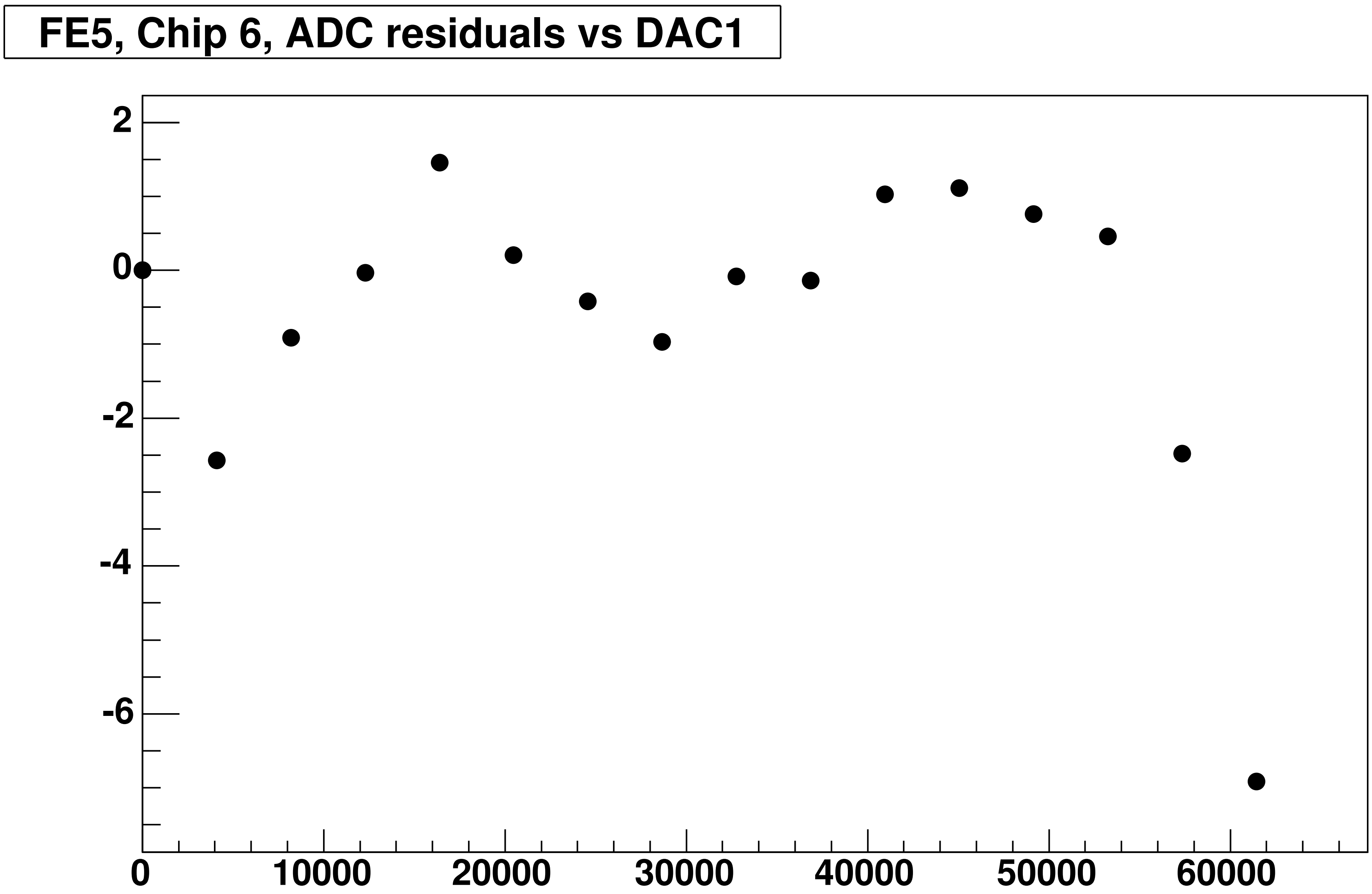

FE5, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

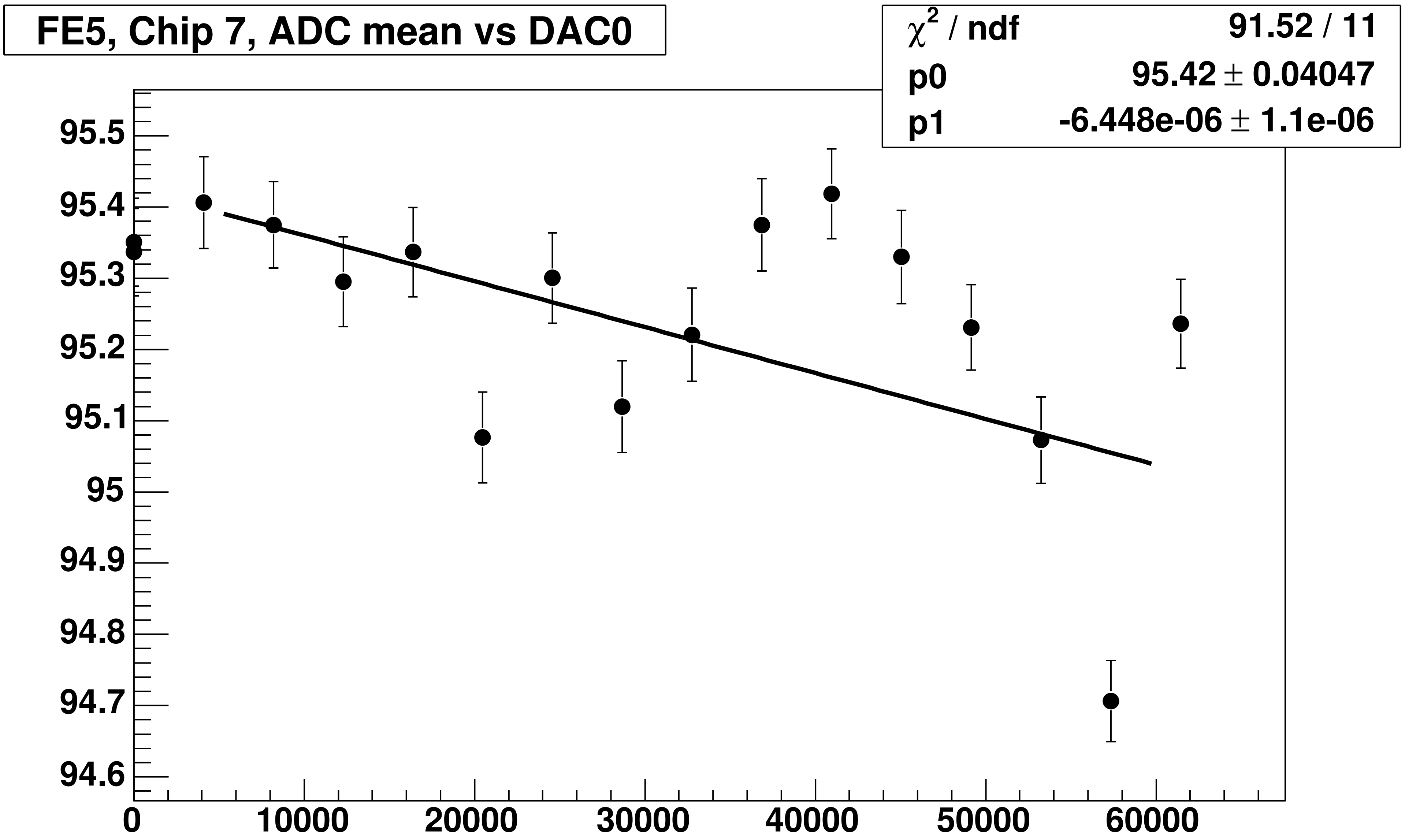


FE5, Chip 6, ADC mean vs DAC1
χ^2 / ndf 2238 / 11
p0 95.16 ± 0.04086
p1 0.4518 ± 1.318e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

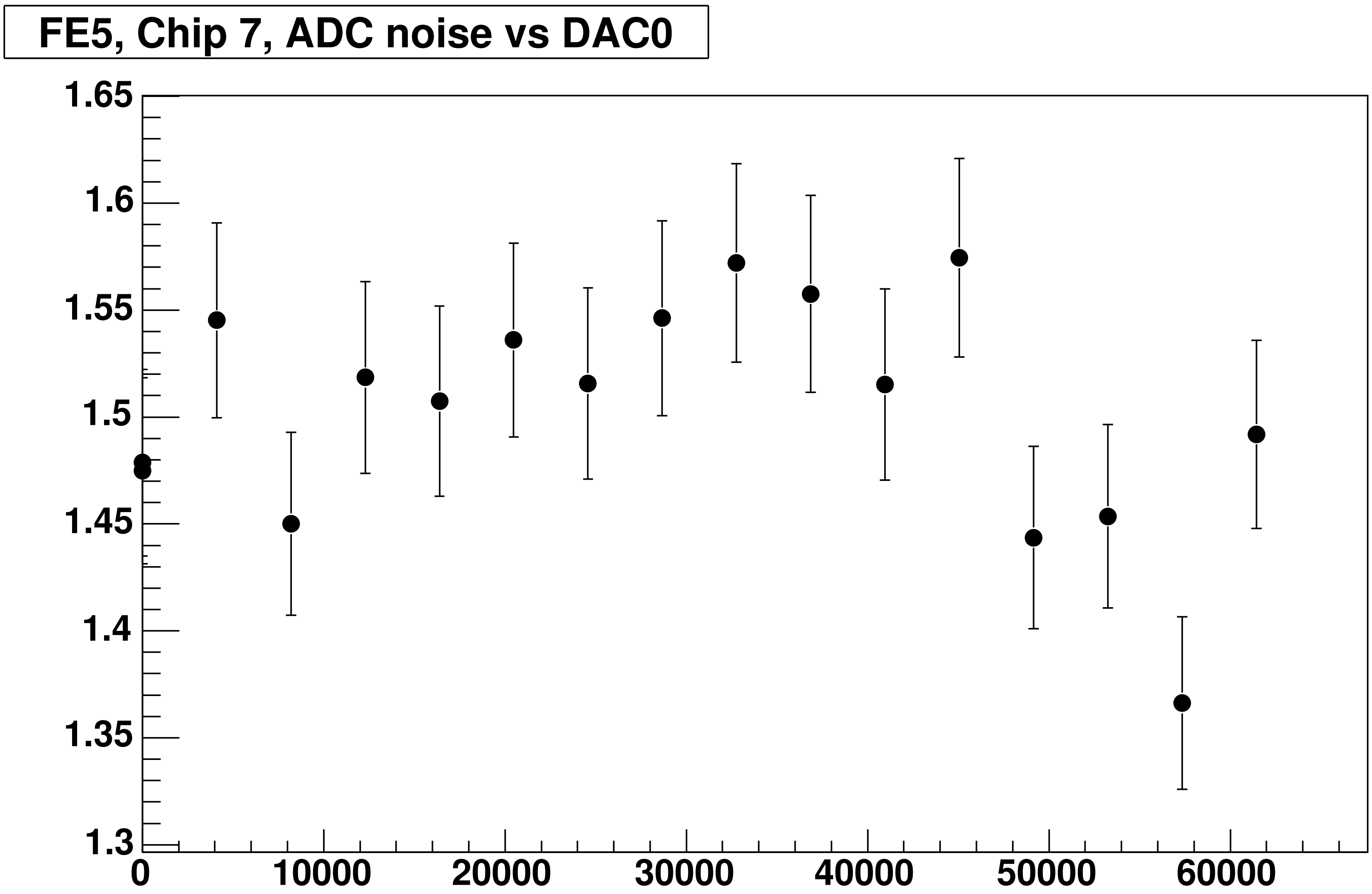


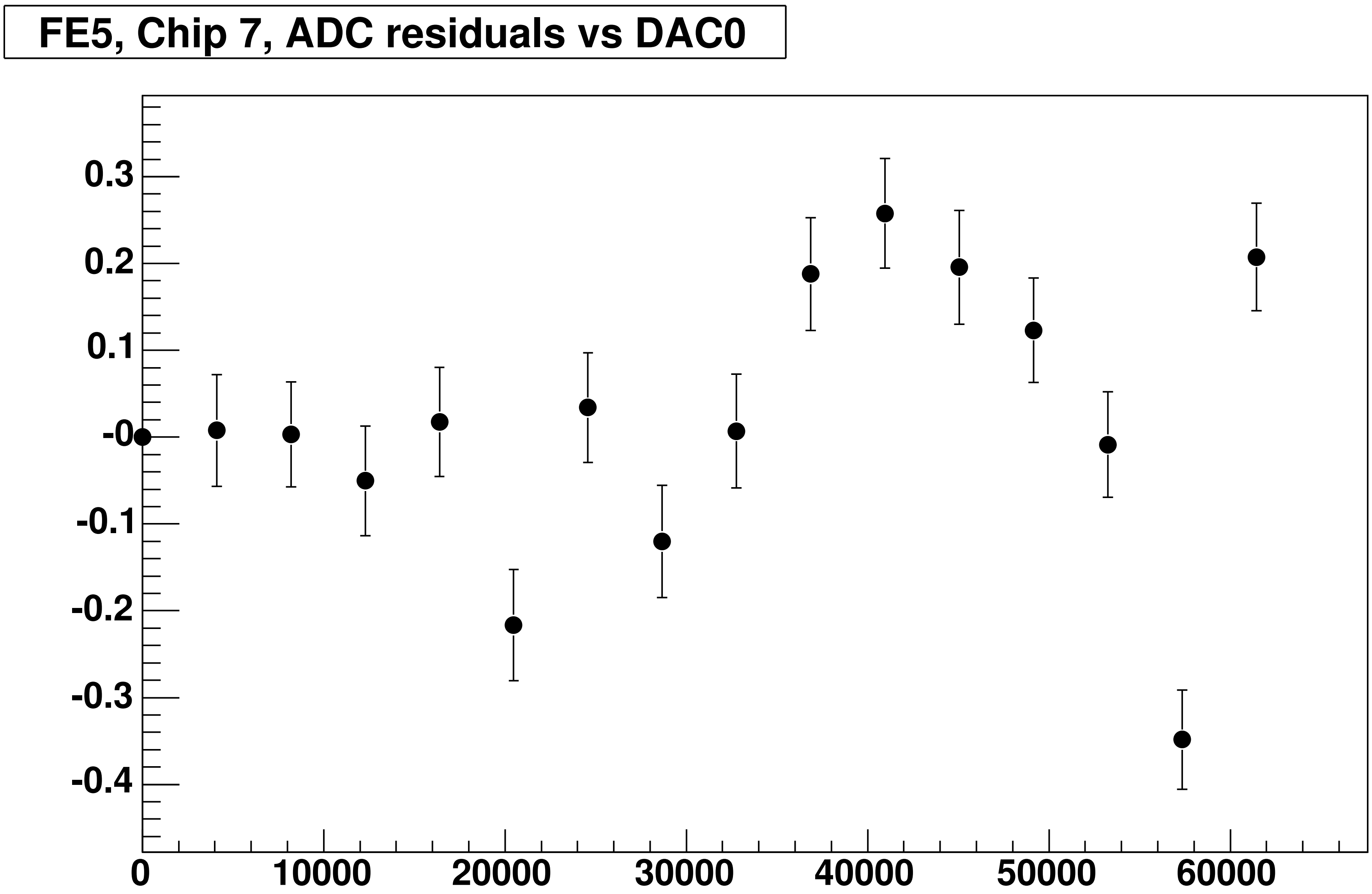
FE5, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

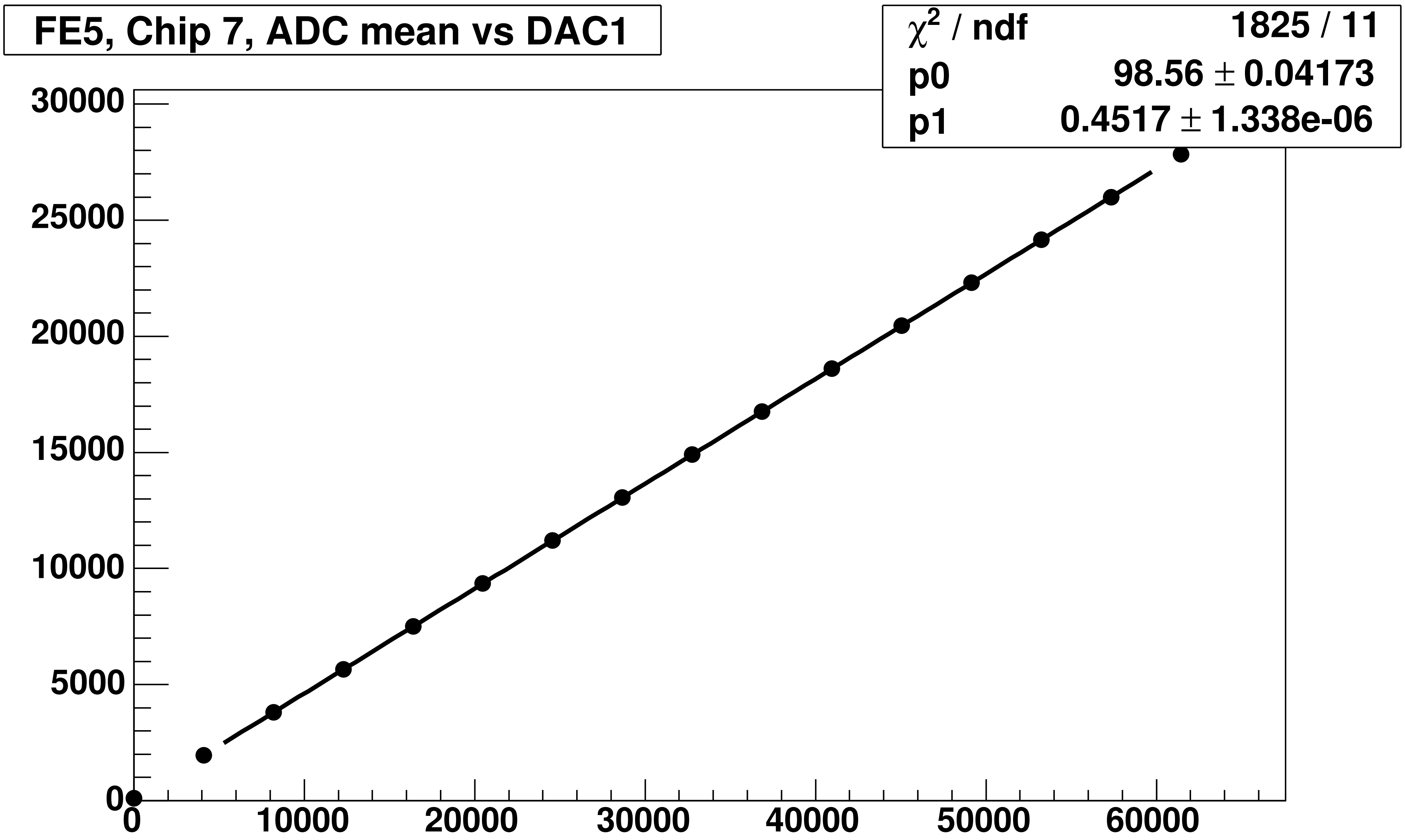

FE5, Chip 6, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

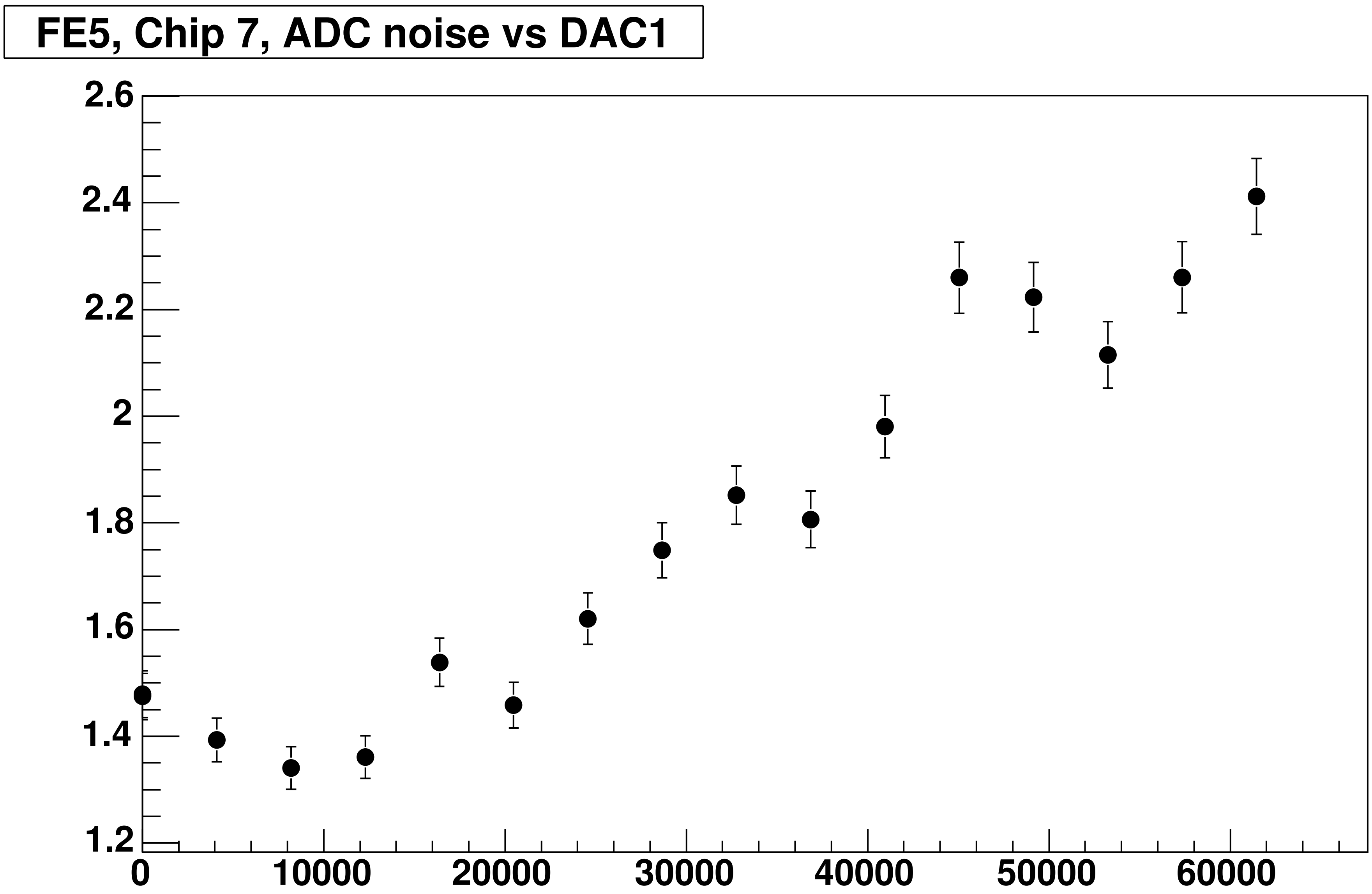


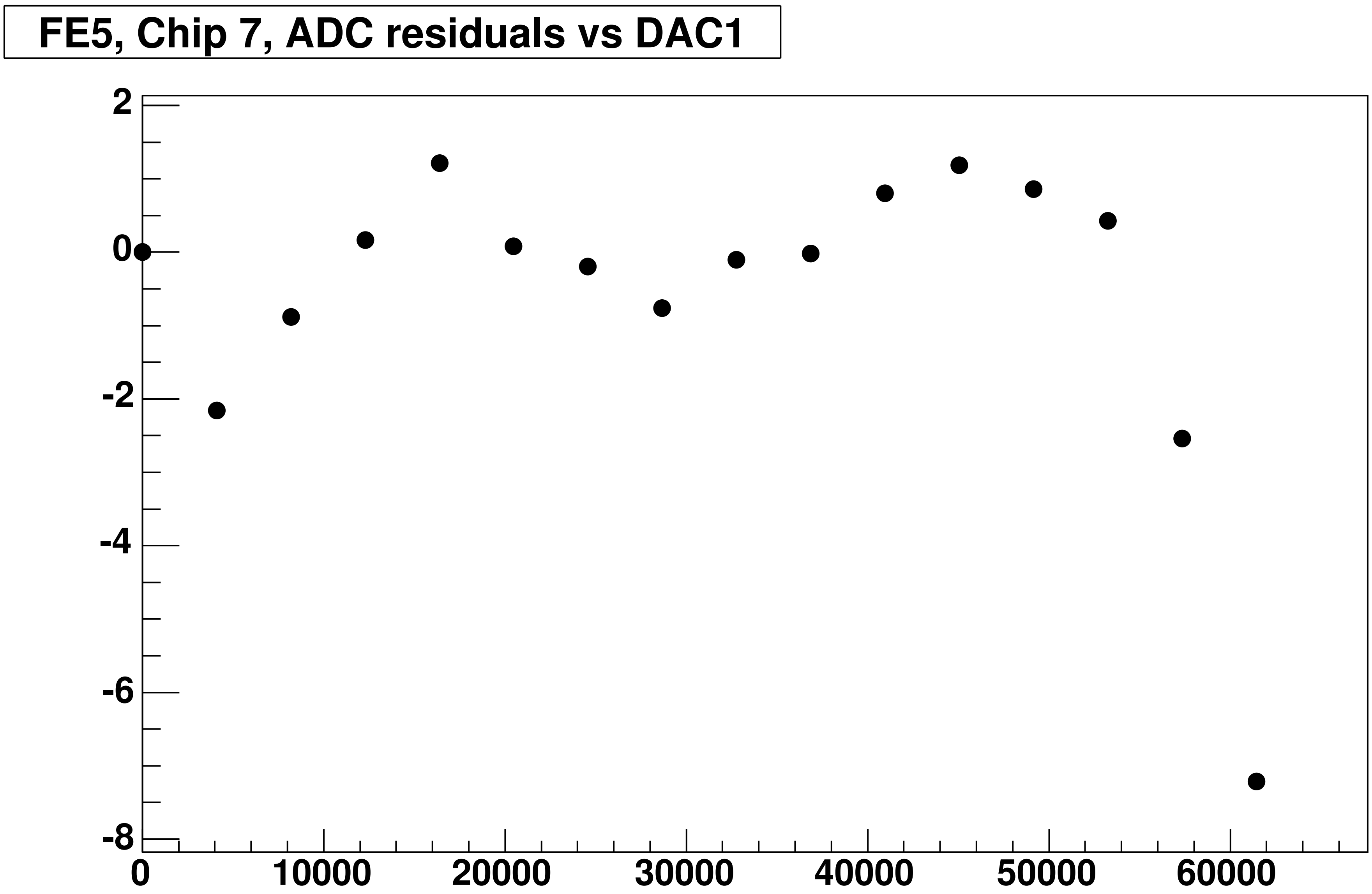
FE5, Chip 7, ADC mean vs DAC0
χ² / ndf 91.52 / 11
p0 95.42 ± 0.04047
p1 -6.448e-06 ± 1.1e-06
95.5
95.4
95.3
95.2
95.1
95
94.9
94.8
94.7
94.6
0
10000
20000
30000
40000
50000
60000

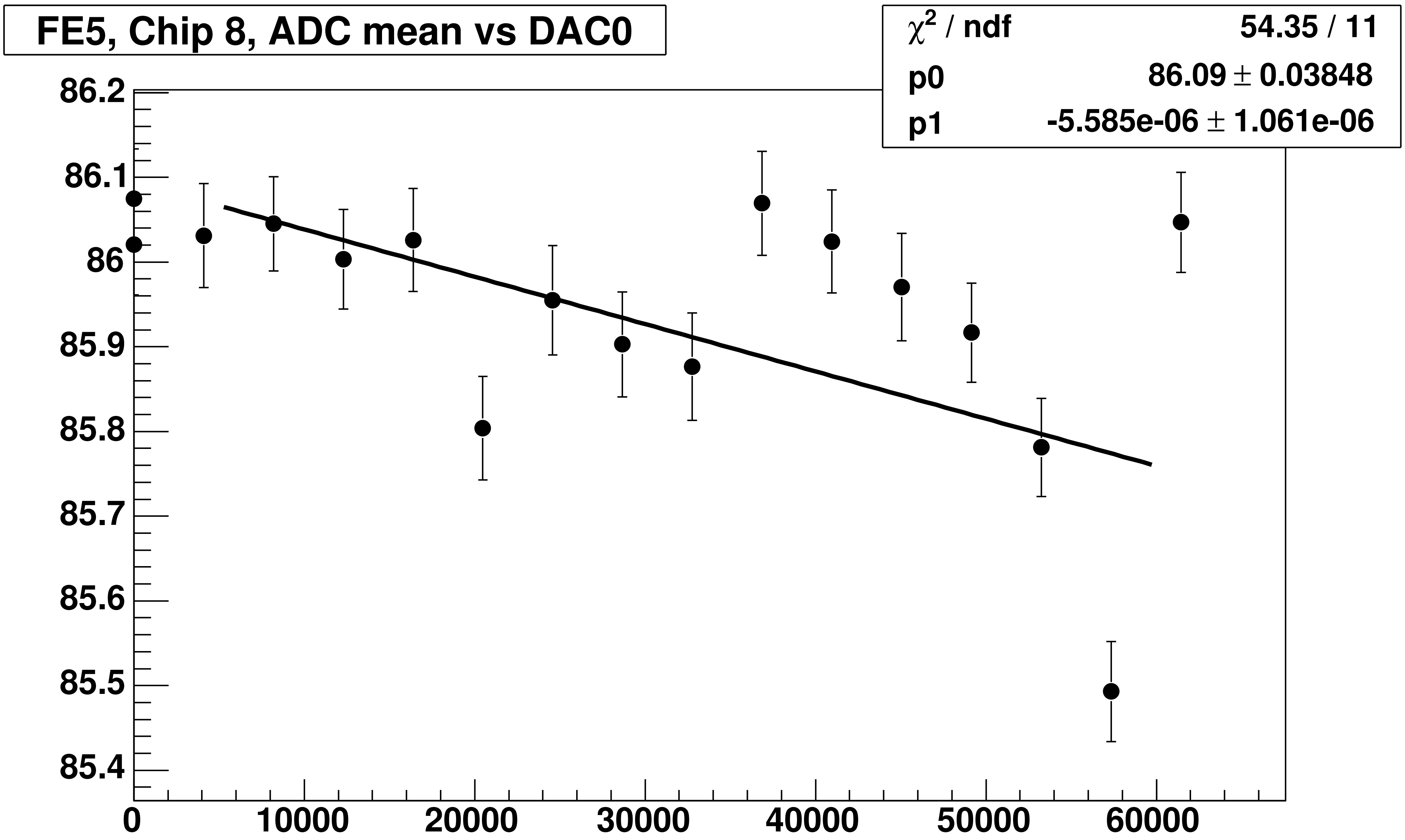

FE5, Chip 7, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


FE5, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

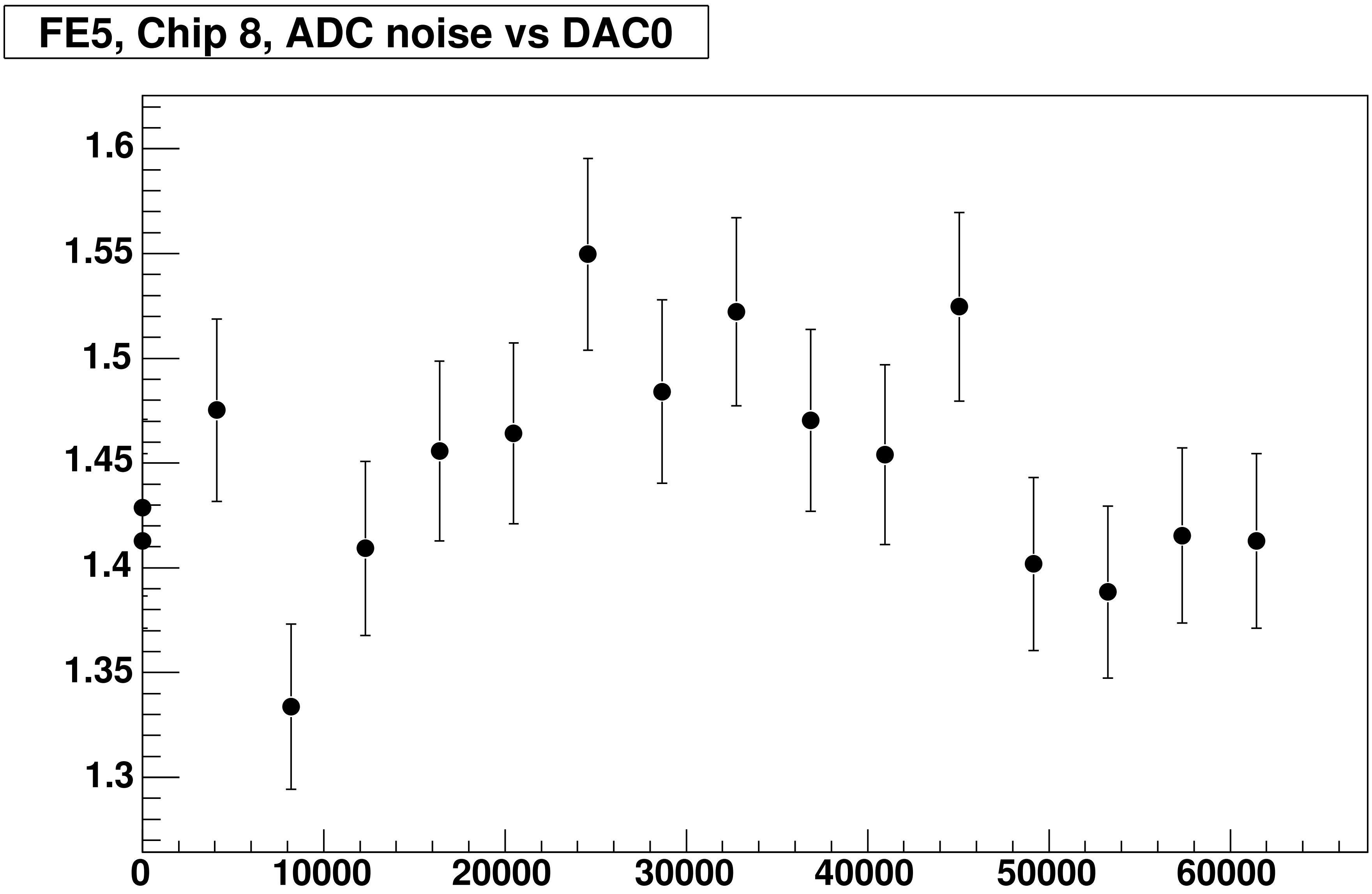

FE5, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1825 / 11
p0 98.56 ± 0.04173
p1 0.4517 ± 1.338e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

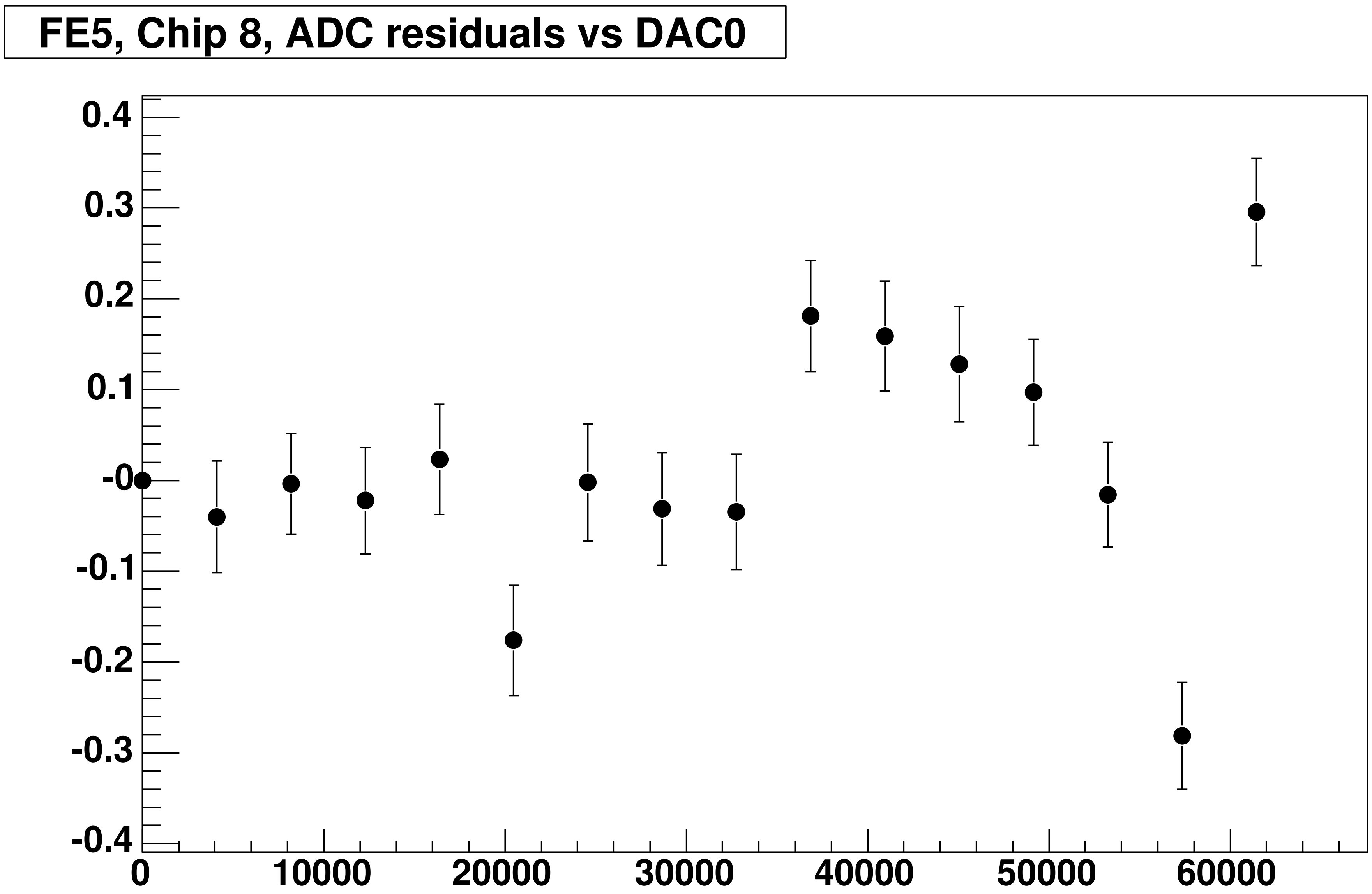

FE5, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE5, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

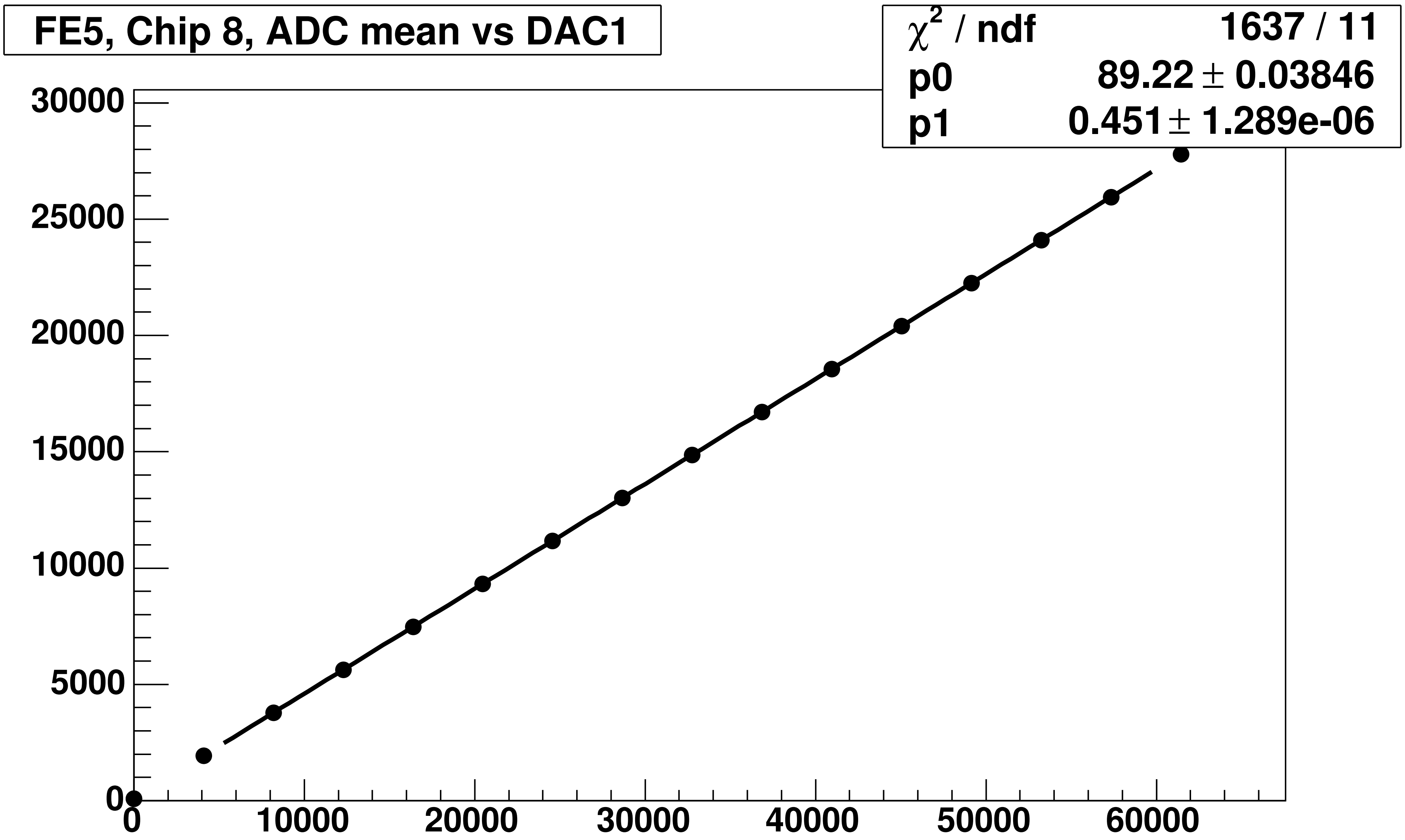


FE5, Chip 8, ADC mean vs DAC0
χ^2 / ndf 54.35 / 11
p0 86.09 ± 0.03848
p1 -5.585e-06 ± 1.061e-06
86.2
86.1
86
85.9
85.8
85.7
85.6
85.5
85.4
0
10000
20000
30000
40000
50000
60000

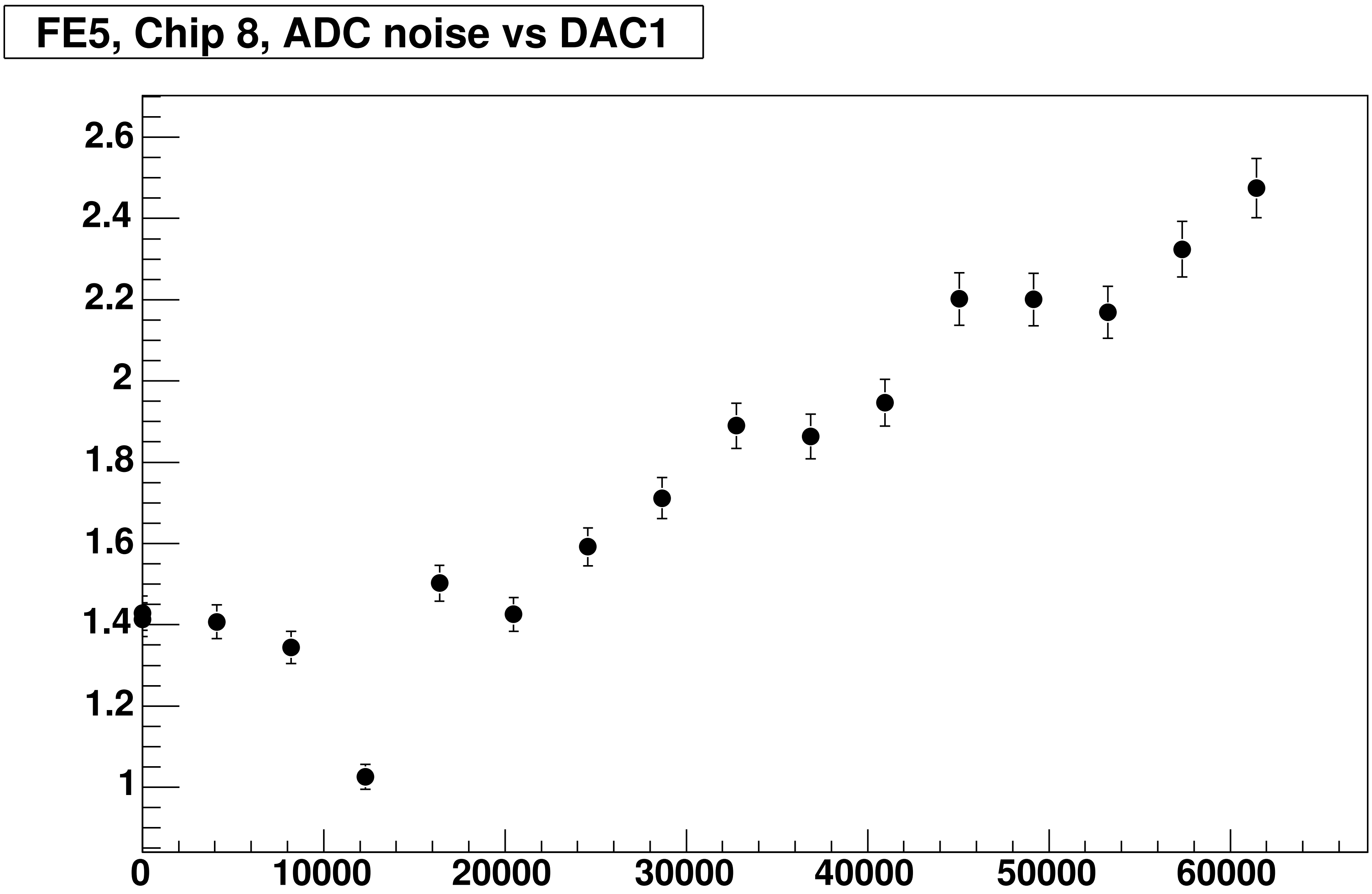

FE5, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

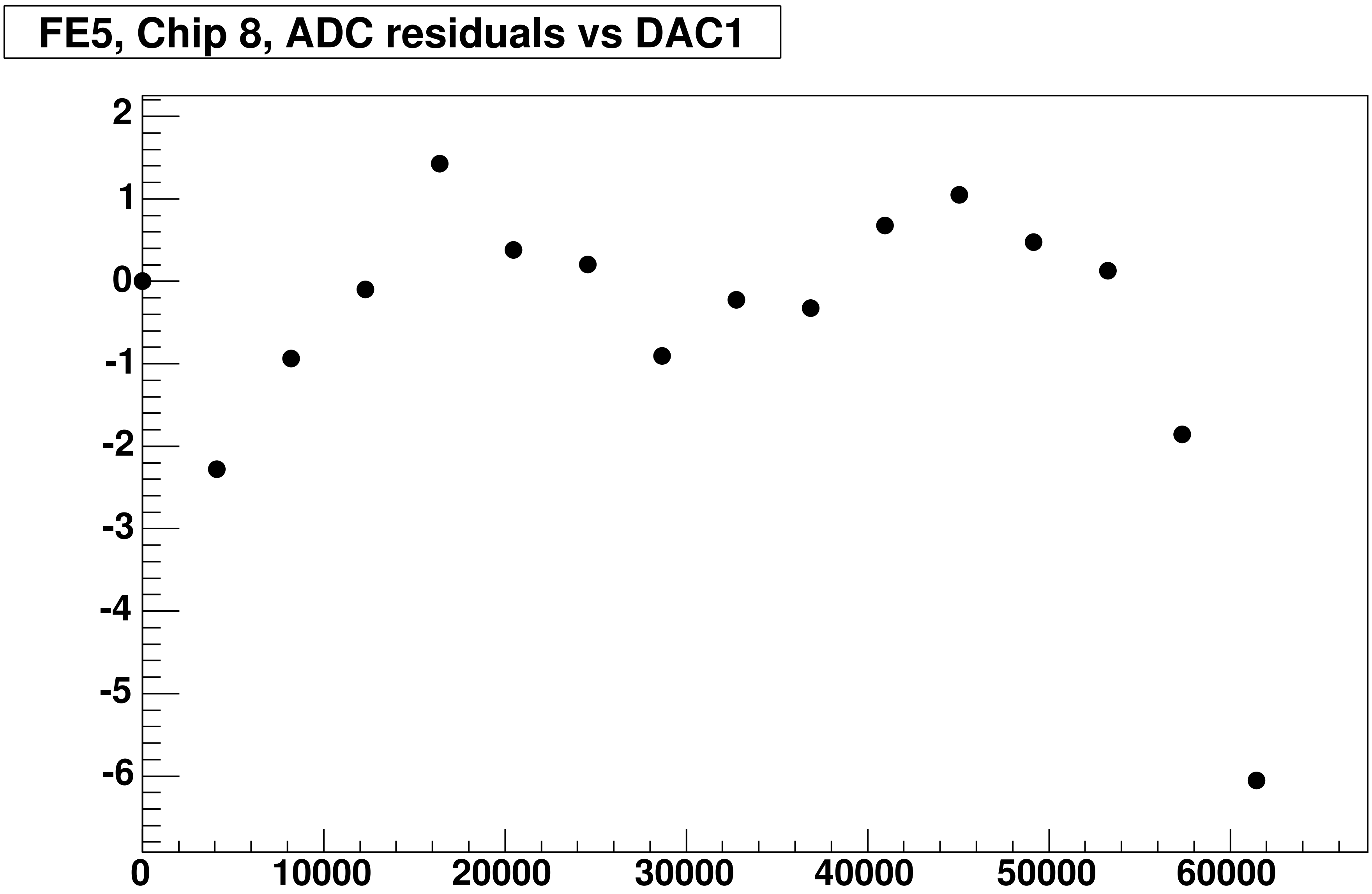


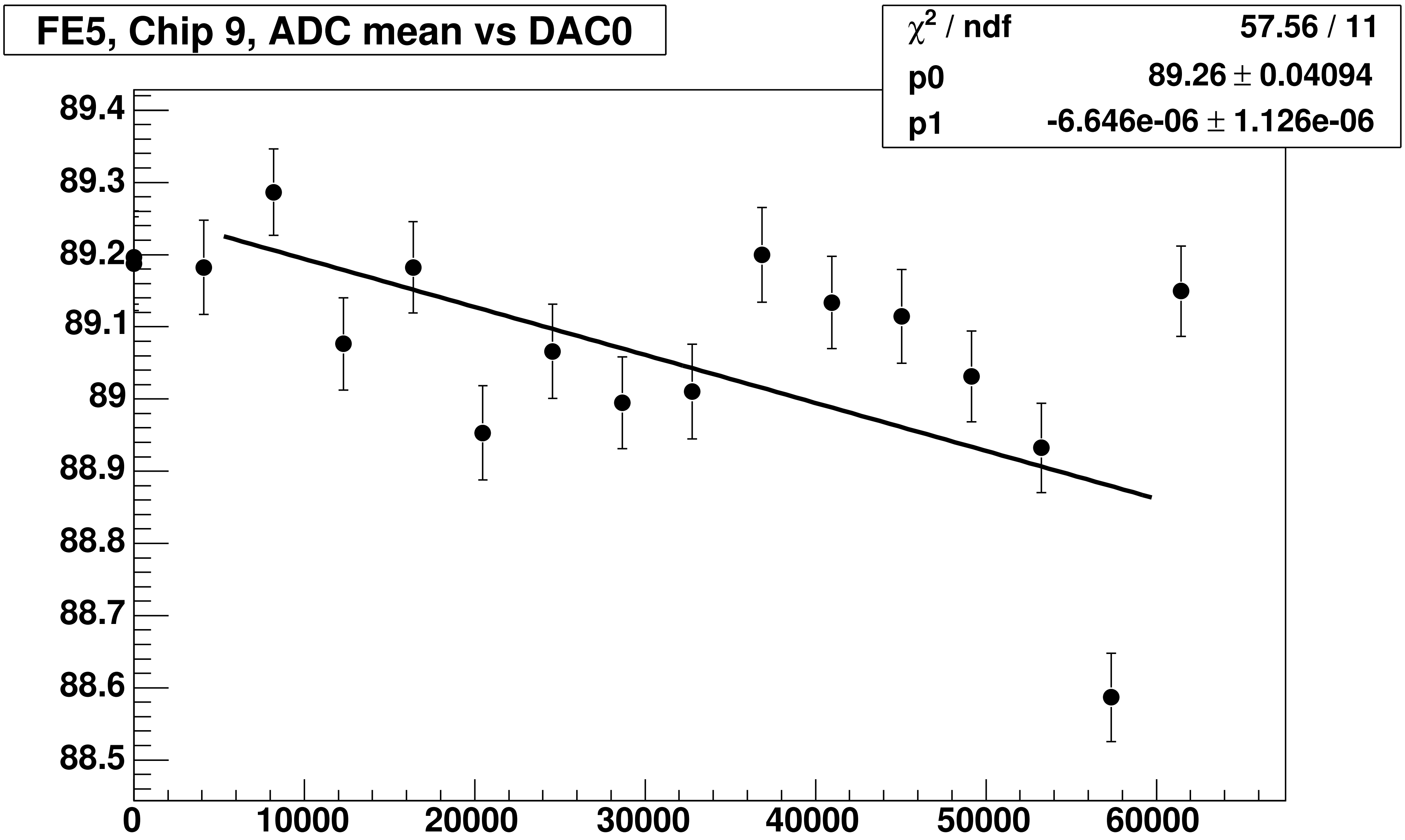
FE5, Chip 8, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

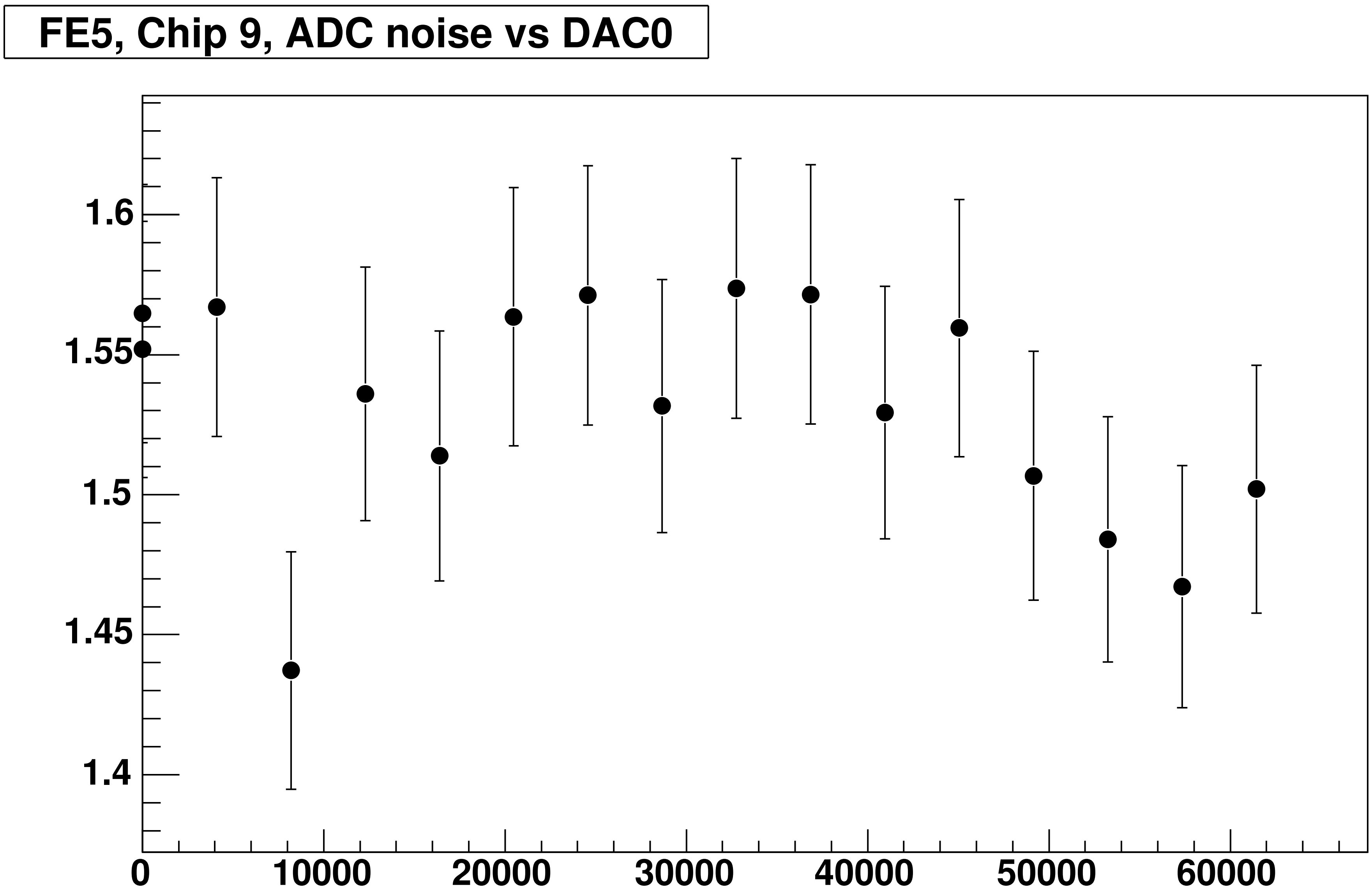


FE5, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1637 / 11
p0 89.22 ± 0.03846
p1 0.451 ± 1.289e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

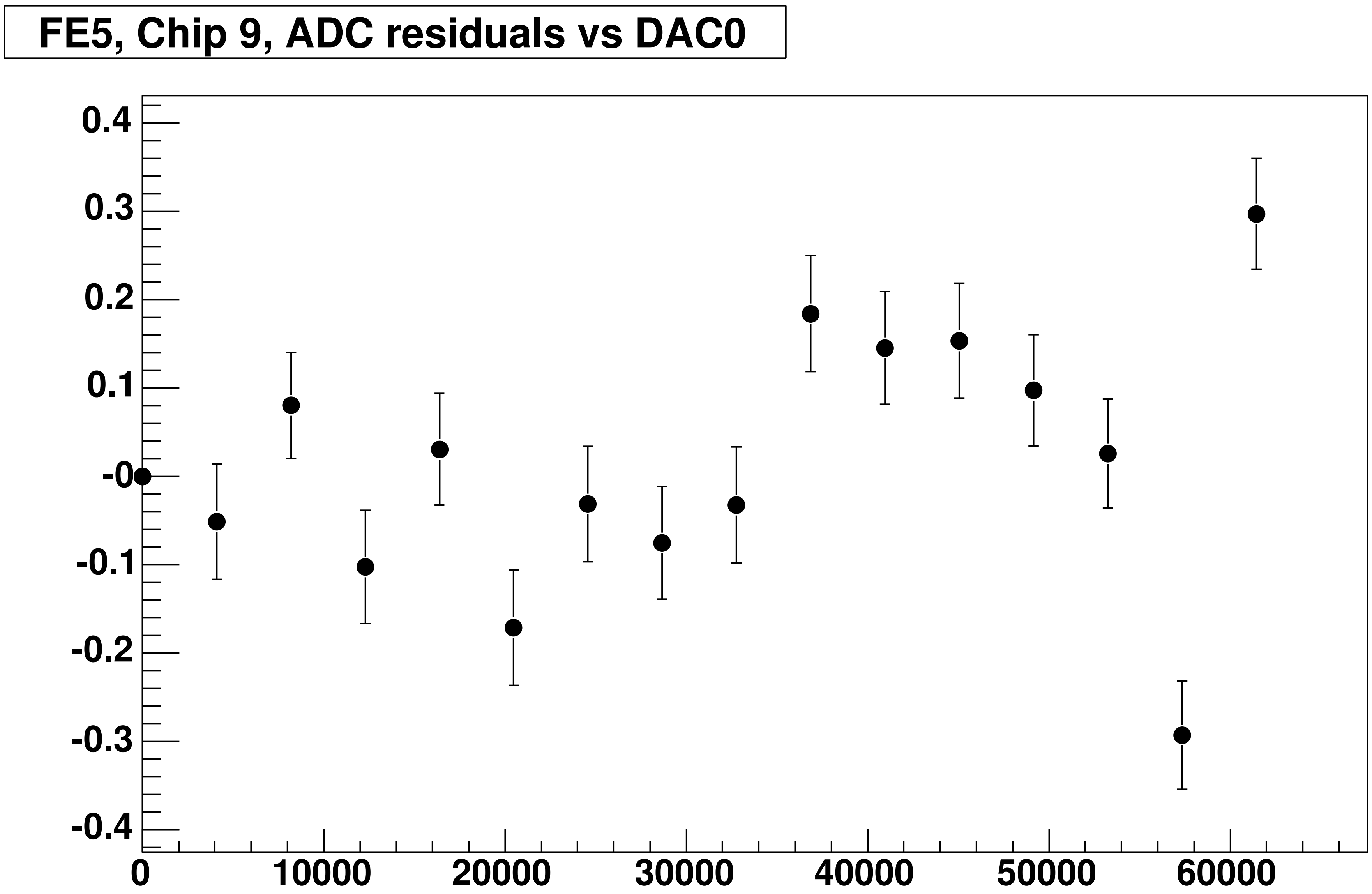

FE5, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0
10000
20000
30000
40000
50000
60000

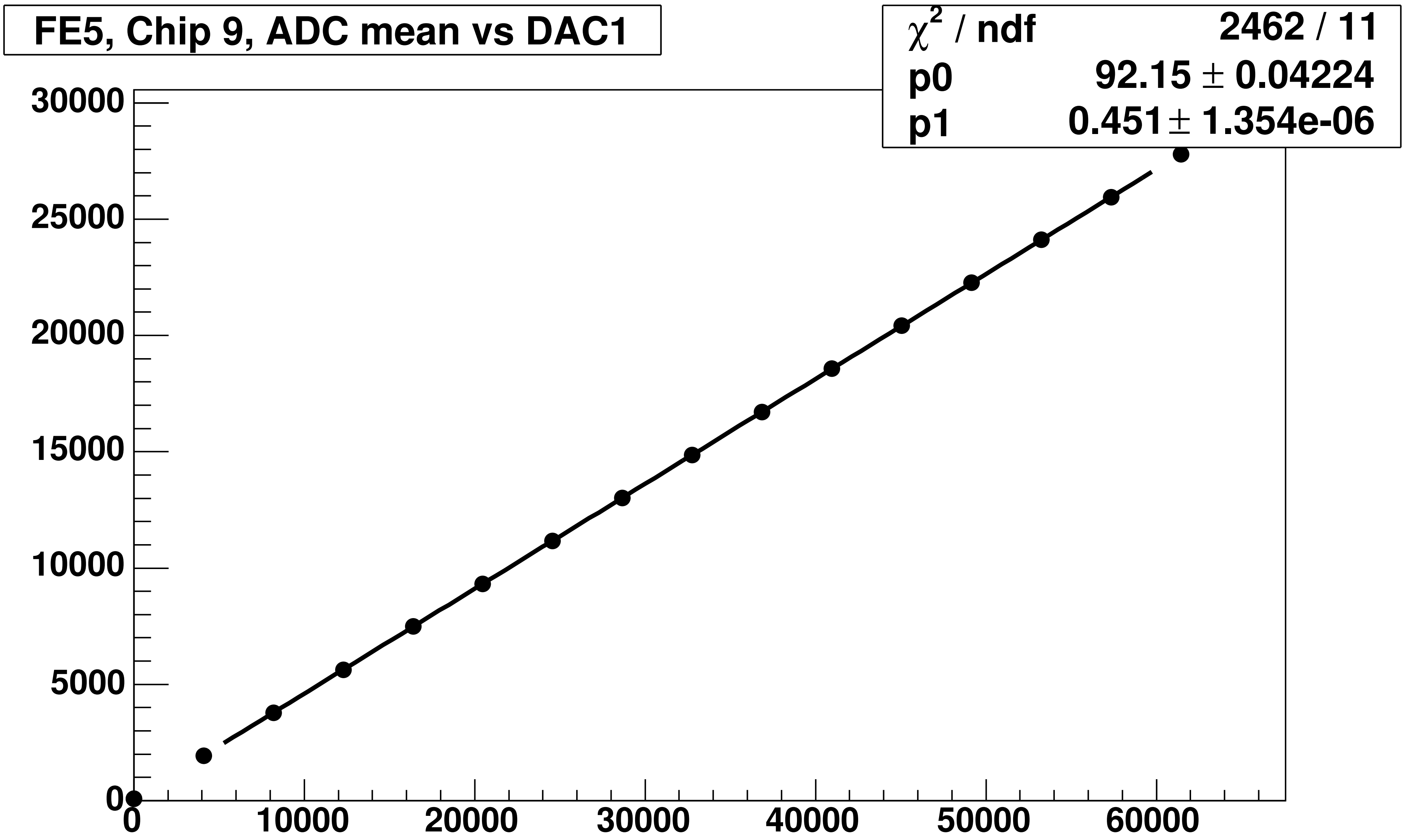

FE5, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

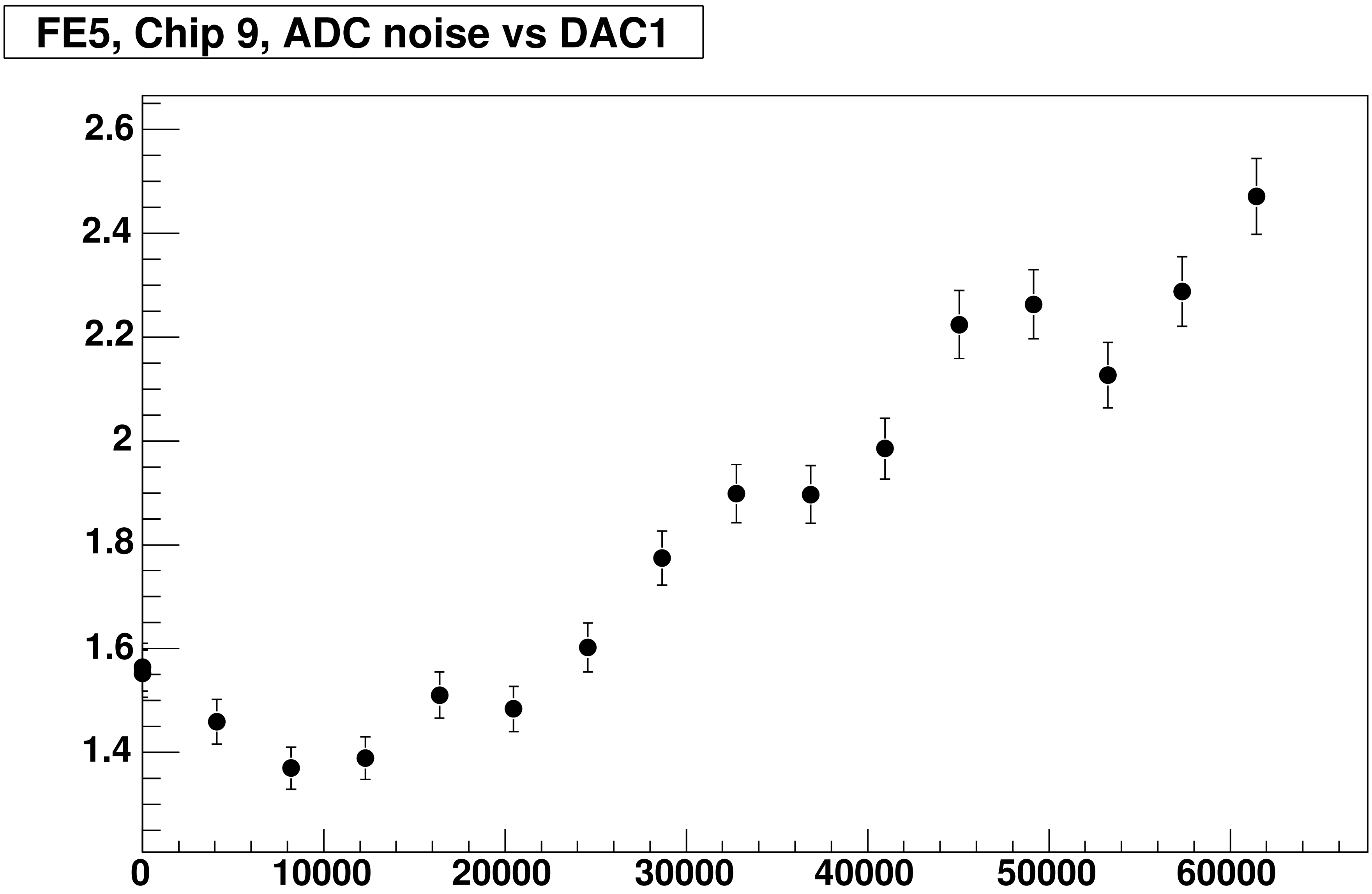

FE5, Chip 9, ADC mean vs DAC0
χ² / ndf 57.56 / 11
p0 89.26 ± 0.04094
p1 -6.646e-06 ± 1.126e-06
89.4
89.3
89.2
89.1
89
88.9
88.8
88.7
88.6
88.5
0
10000
20000
30000
40000
50000
60000

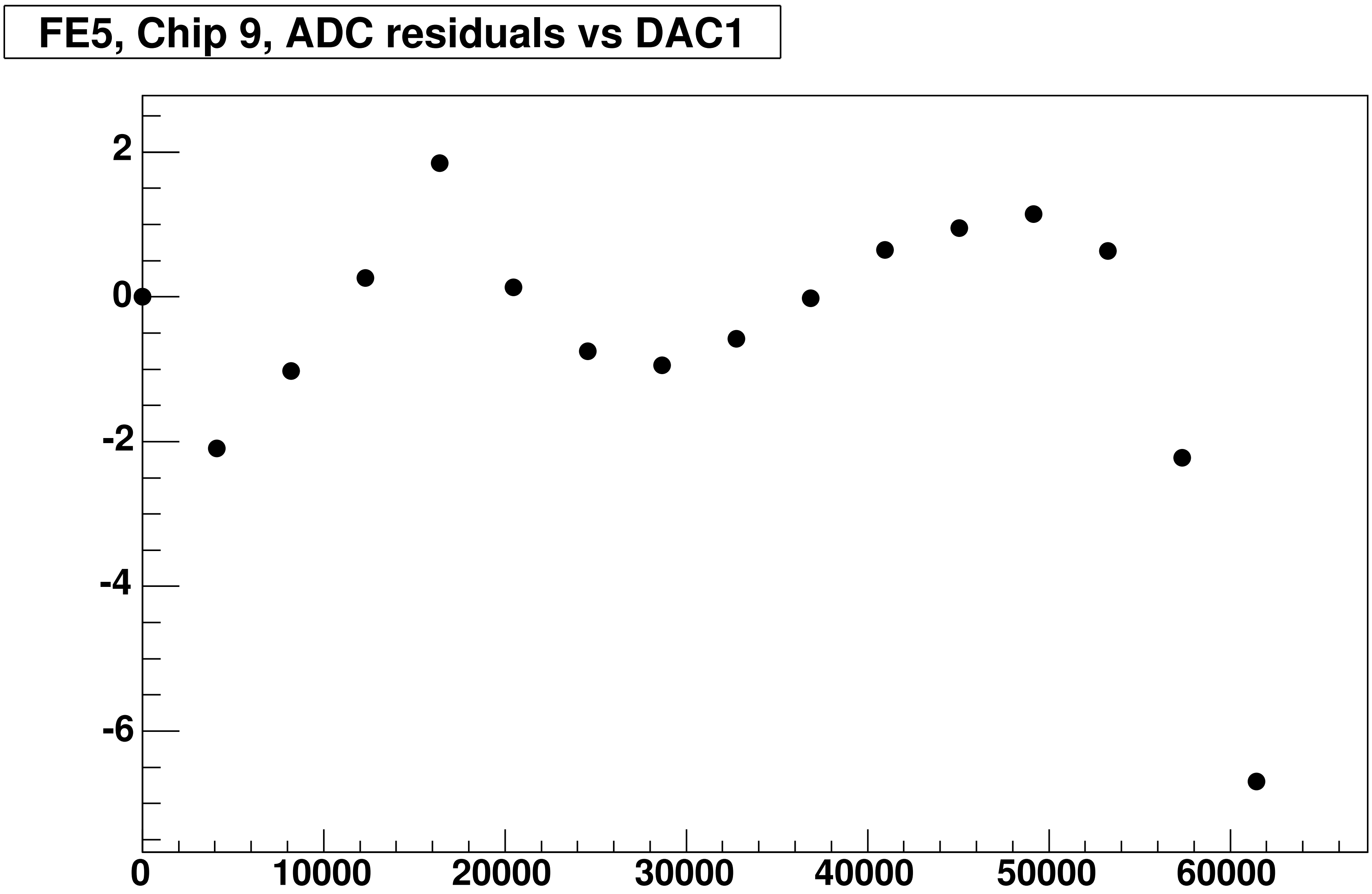


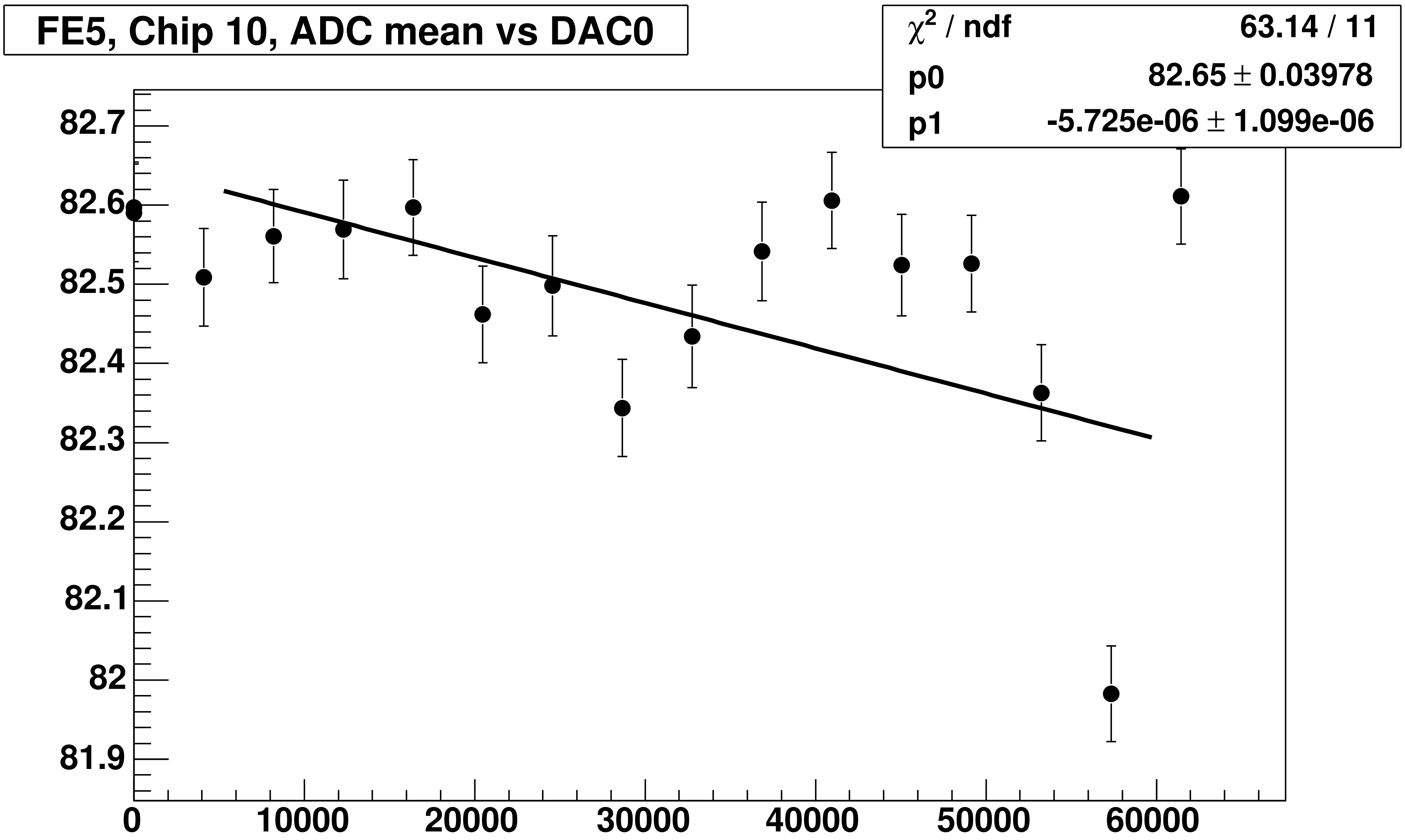
FE5, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


FE5, Chip 9, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

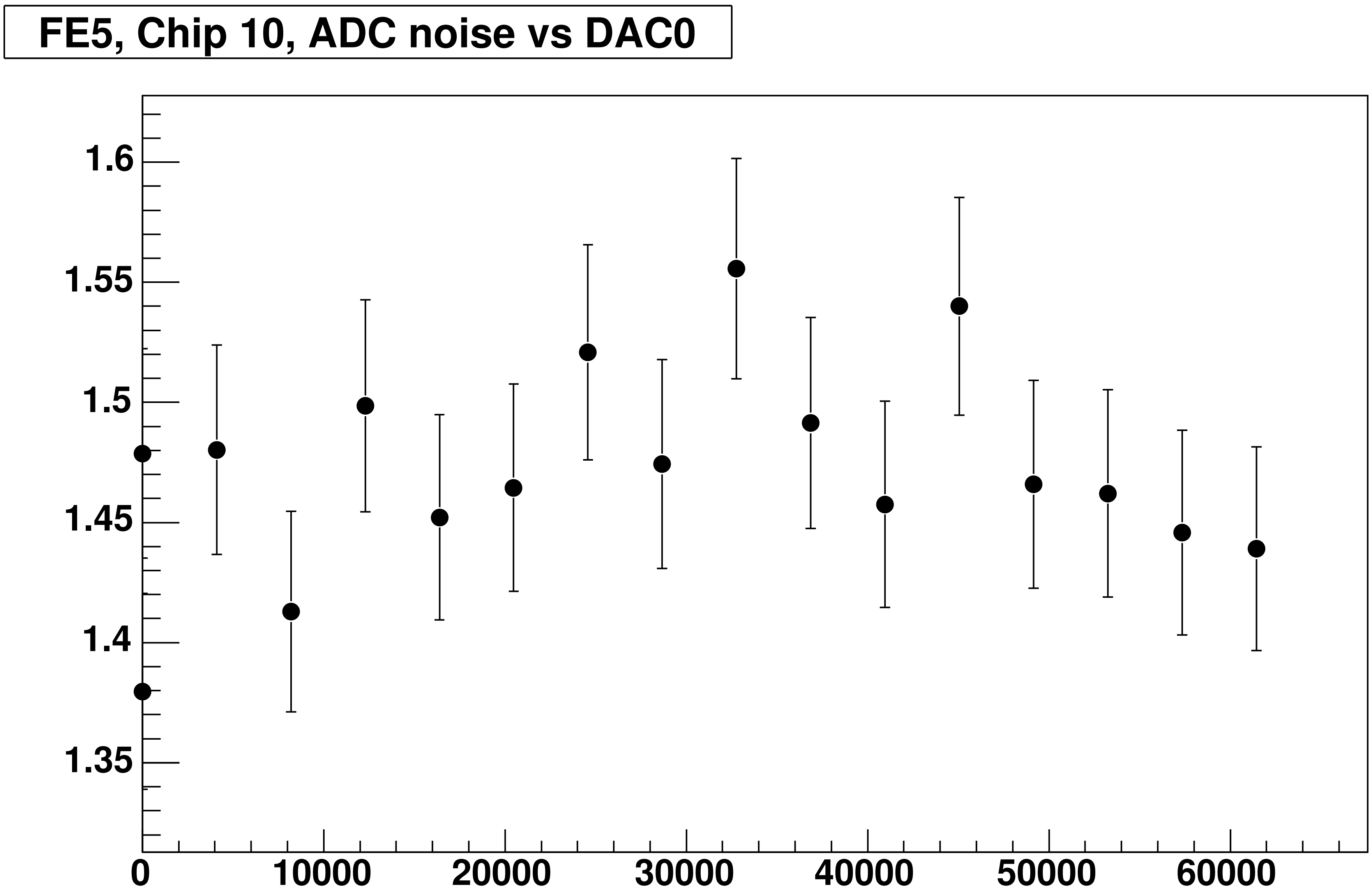

FE5, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2462 / 11
p0 92.15 ± 0.04224
p1 0.451 ± 1.354e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

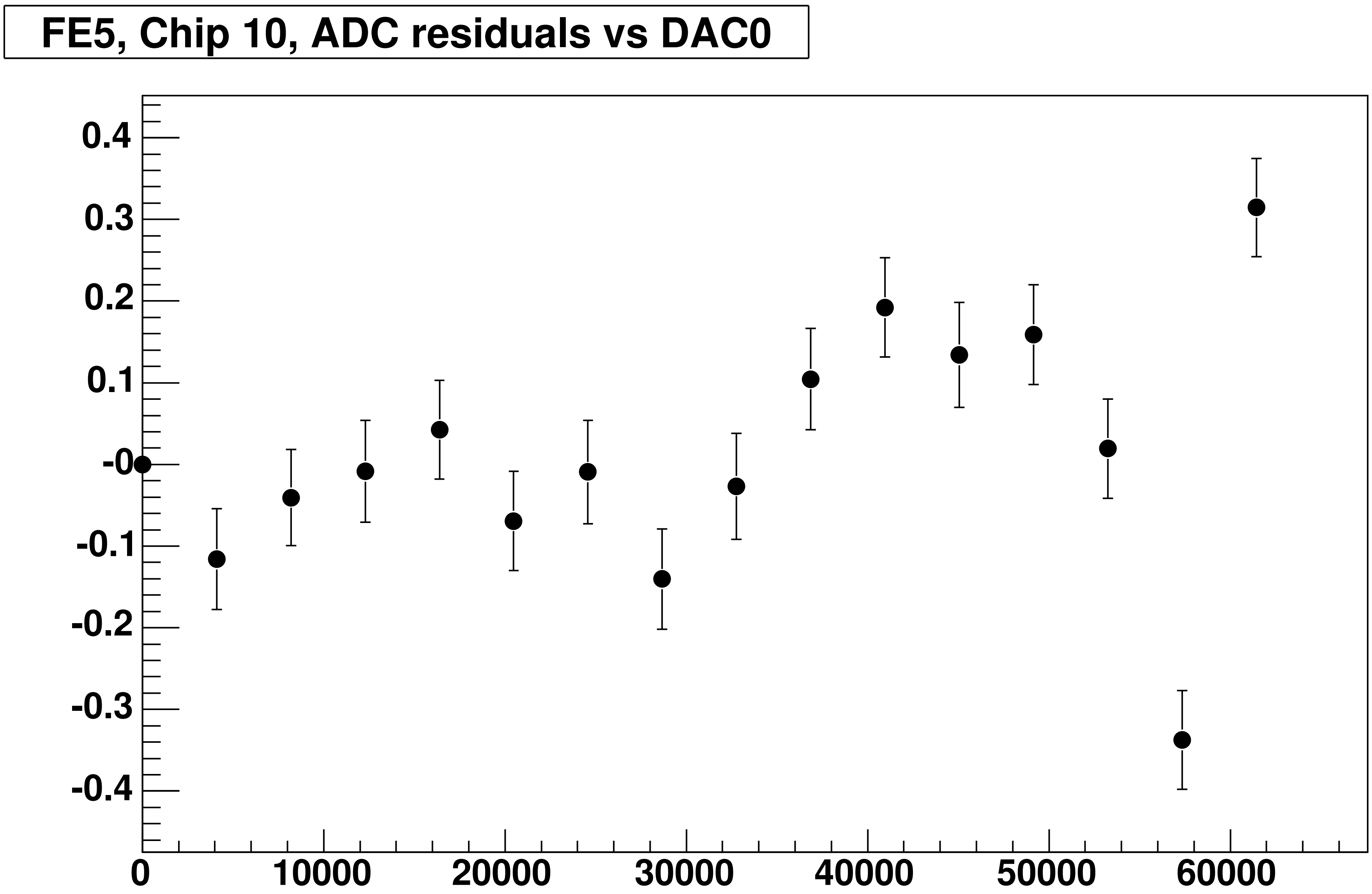

FE5, Chip 9, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

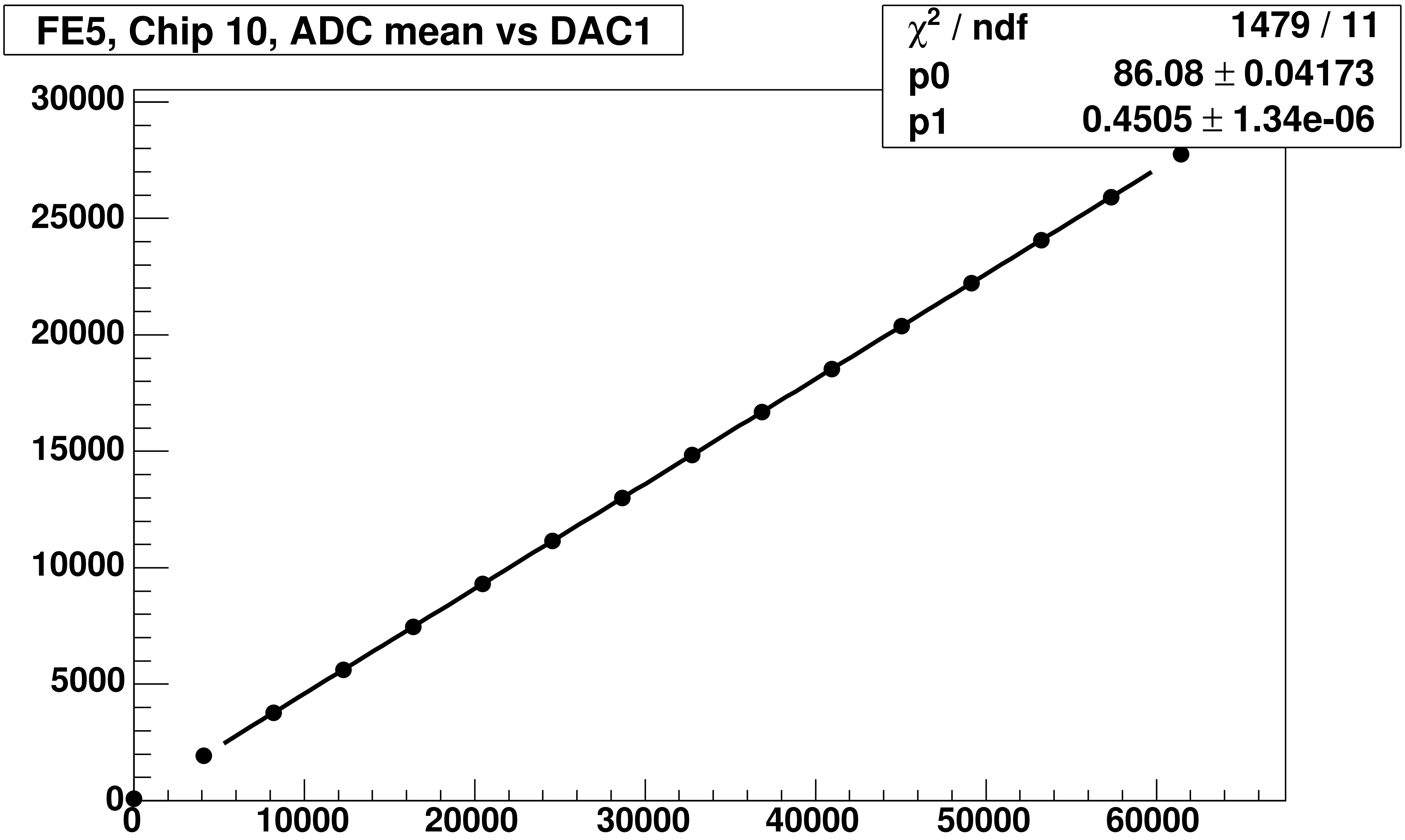


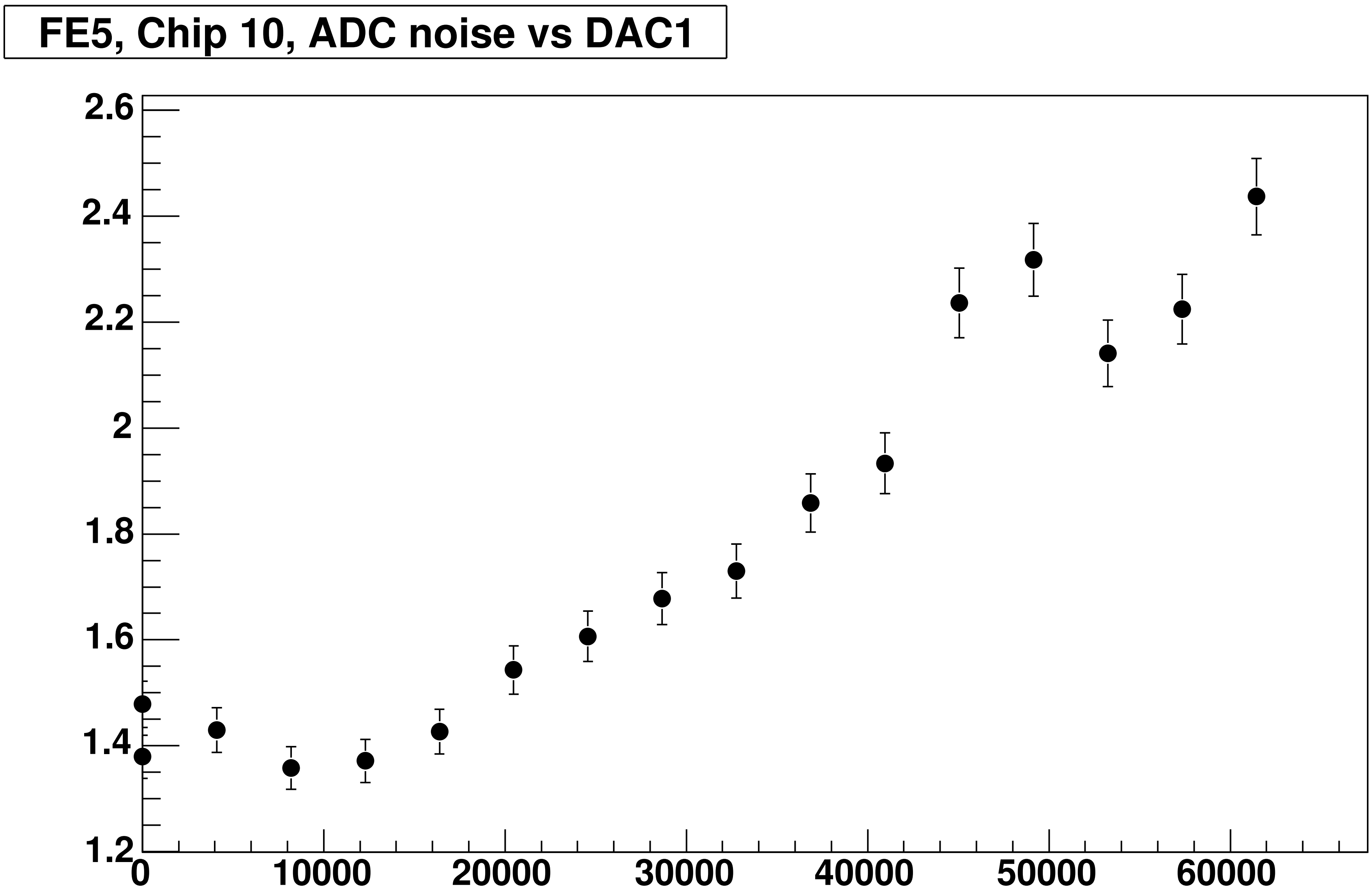
FE5, Chip 10, ADC mean vs DAC0
χ^2 / ndf 63.14 / 11
p0 82.65 ± 0.03978
p1 -5.725e-06 ± 1.099e-06
82.7
82.6
82.5
82.4
82.3
82.2
82.1
82
81.9
0
10000
20000
30000
40000
50000
60000



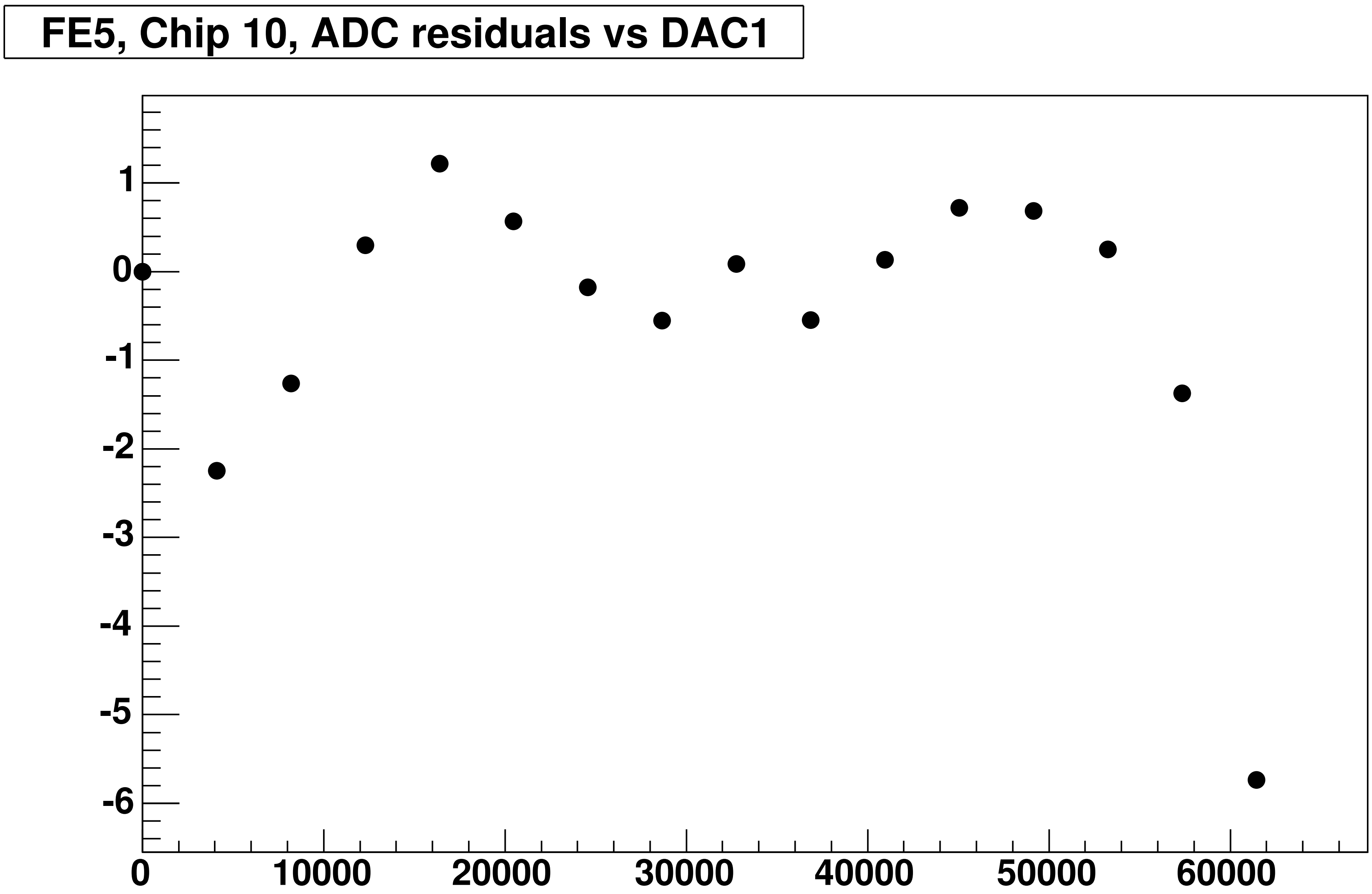
FE5, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE5, Chip 10, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

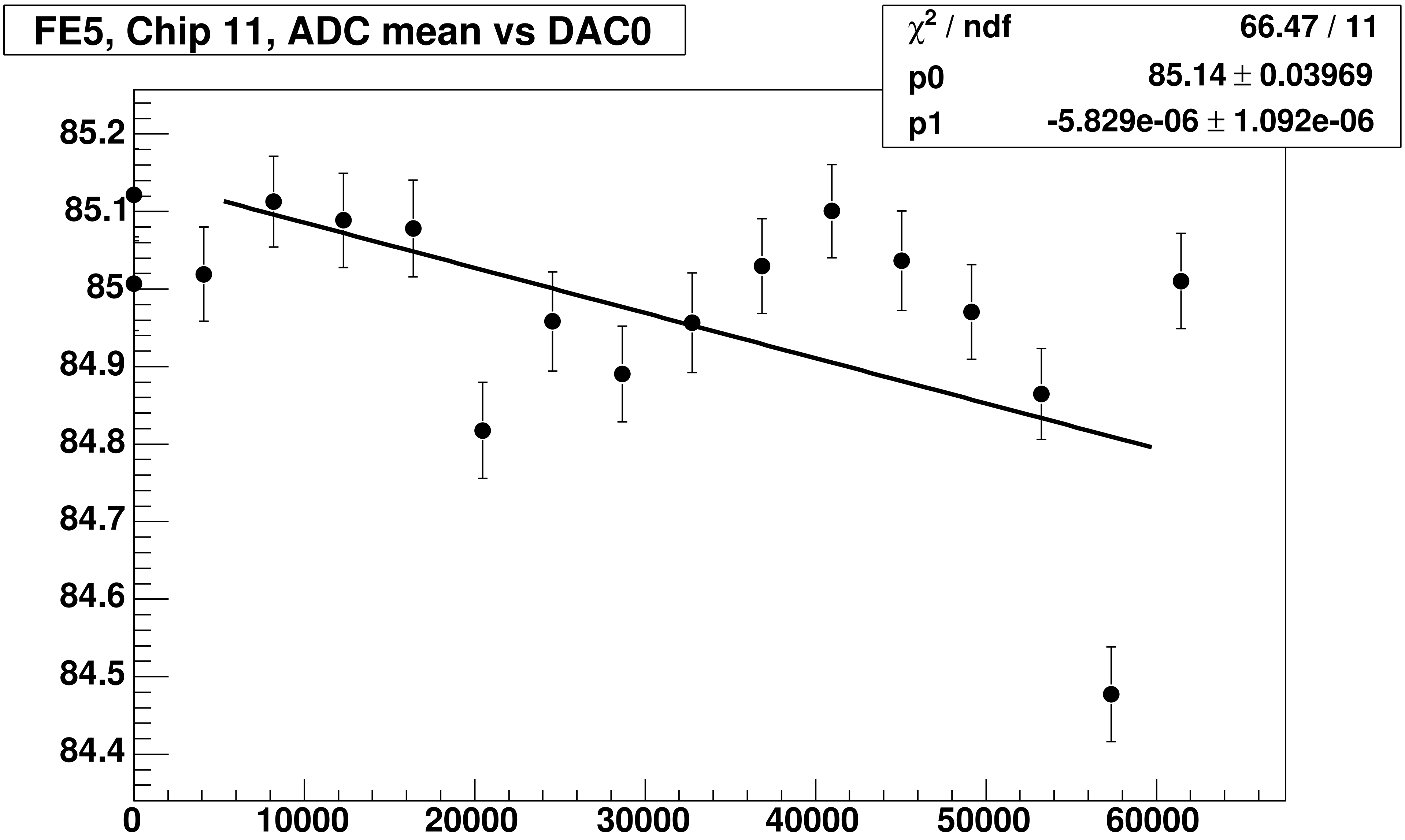

FE5, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1479 / 11
p0 86.08 ± 0.04173
p1 0.4505 ± 1.34e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

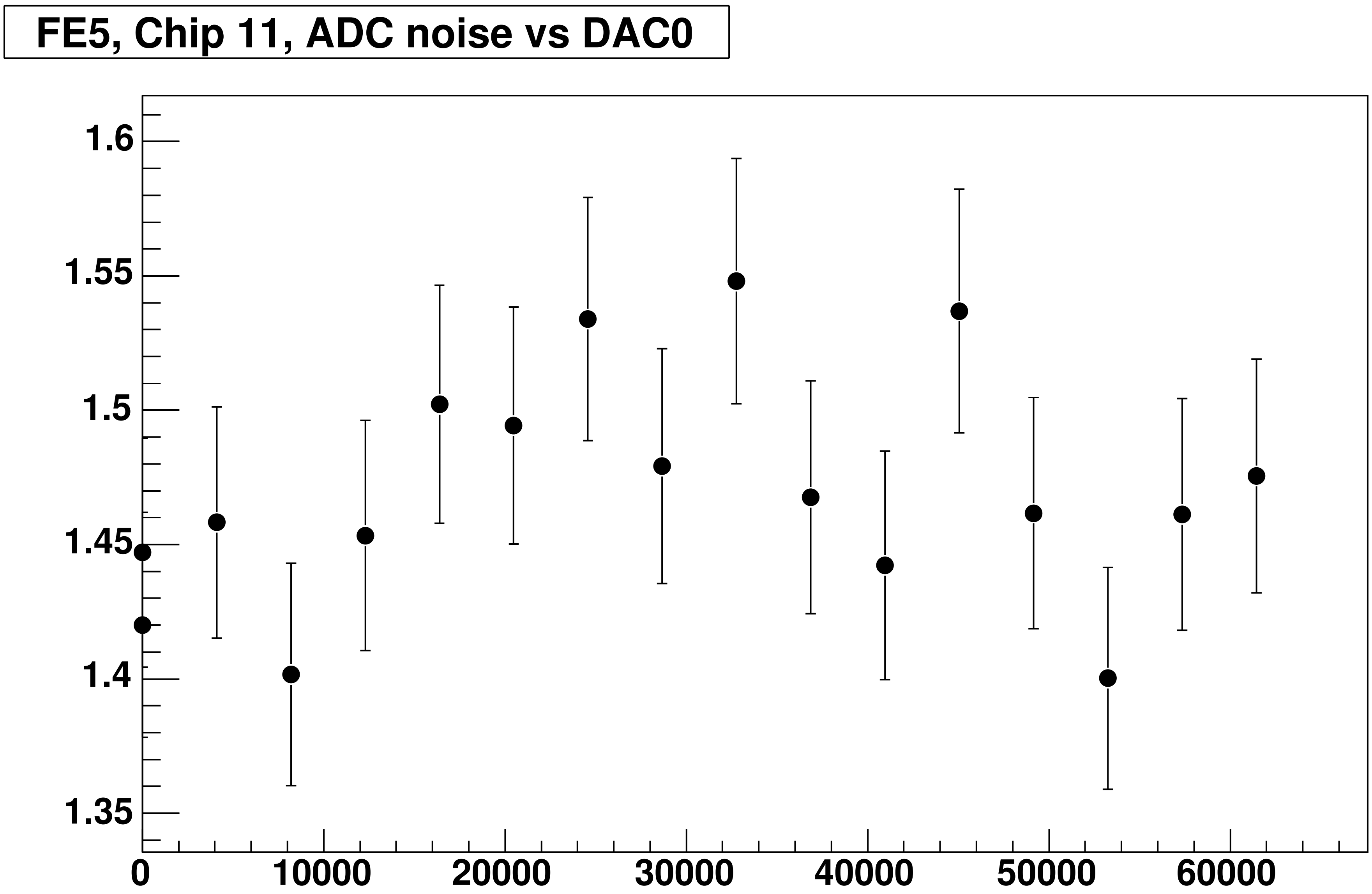


FE5, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

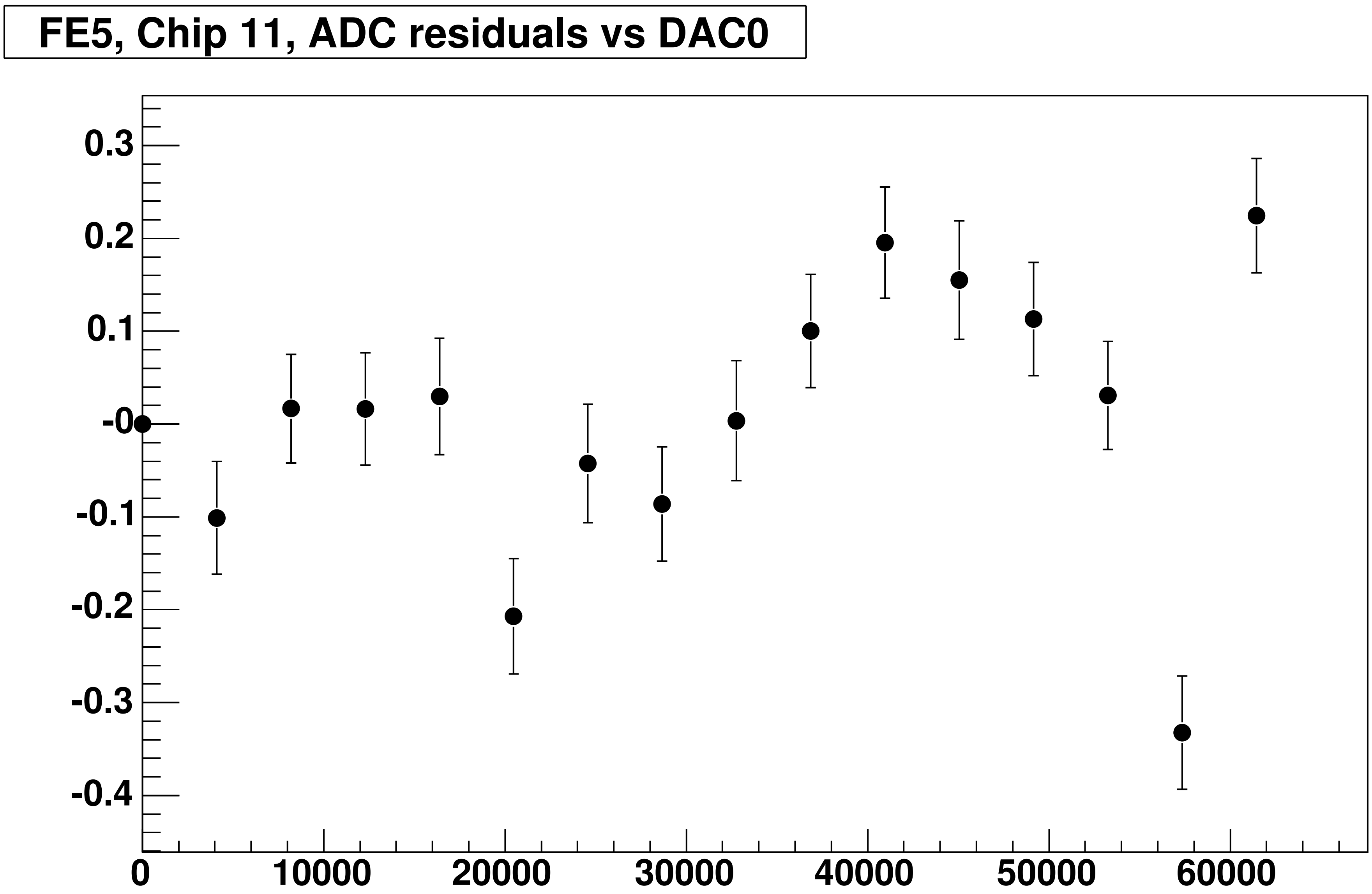


FE5, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

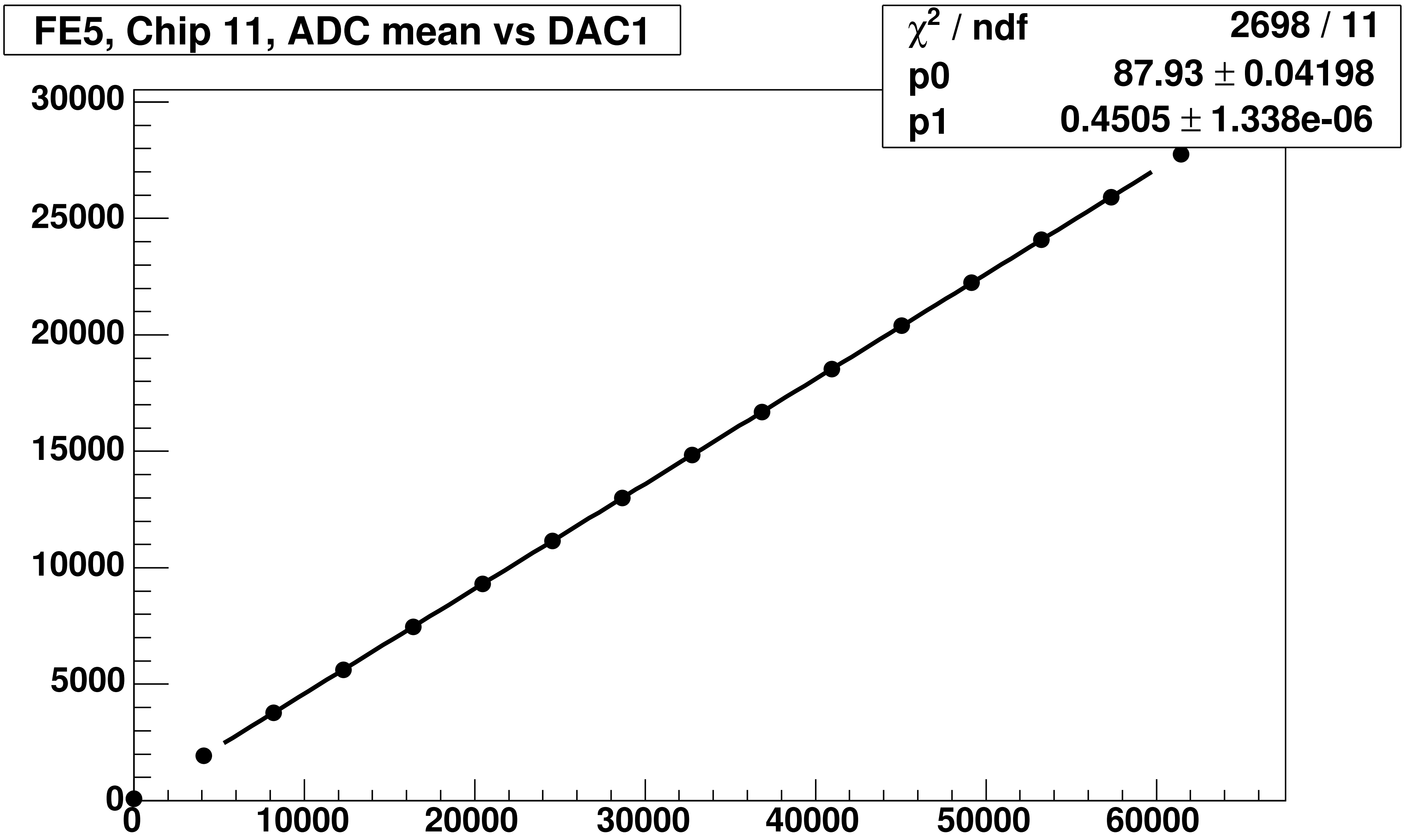

FE5, Chip 11, ADC mean vs DAC0
χ² / ndf 66.47 / 11
p0 85.14 ± 0.03969
p1 -5.829e-06 ± 1.092e-06
85.2
85.1
85
84.9
84.8
84.7
84.6
84.5
84.4
0
10000
20000
30000
40000
50000
60000



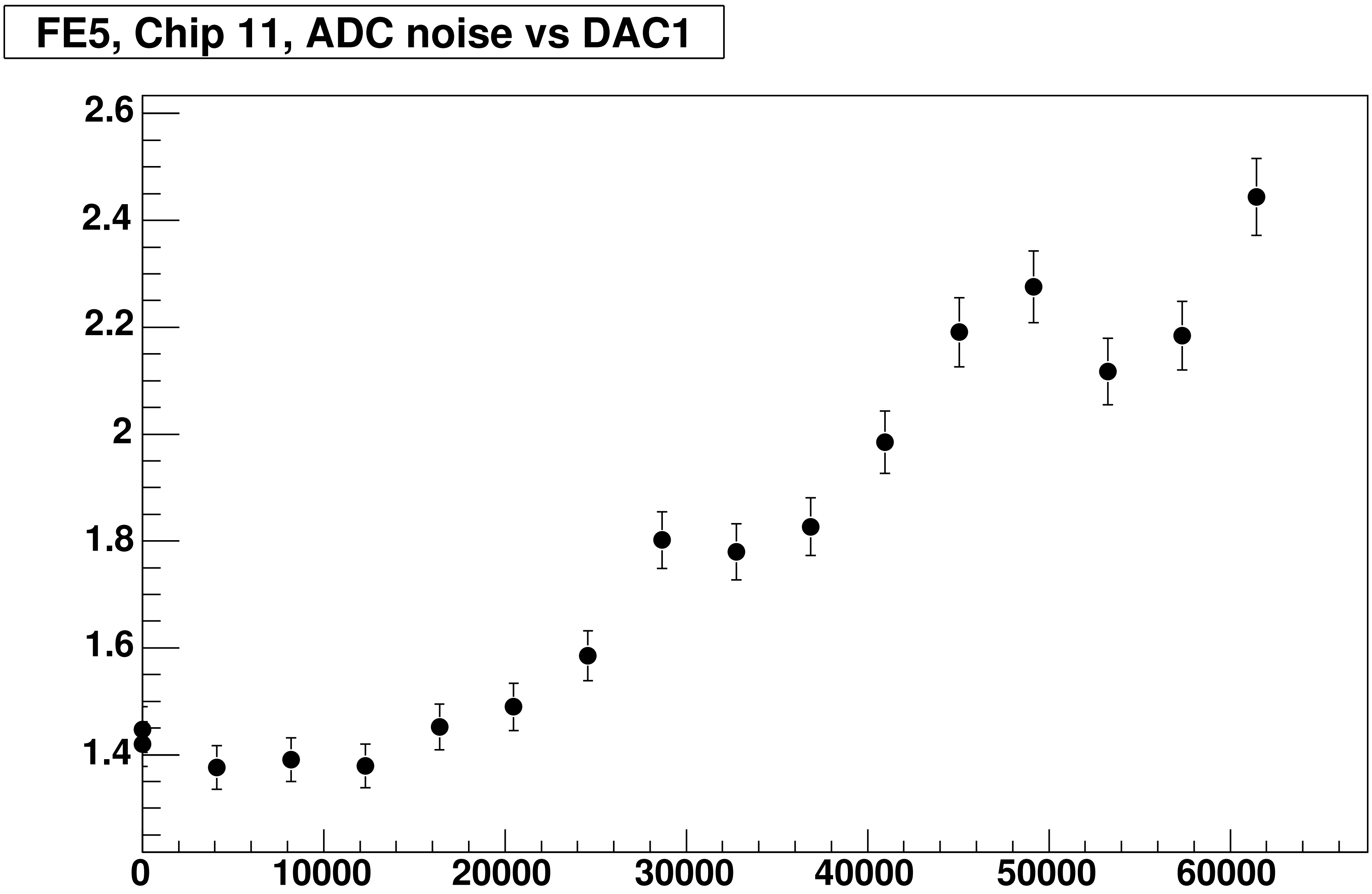
FE5, Chip 11, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

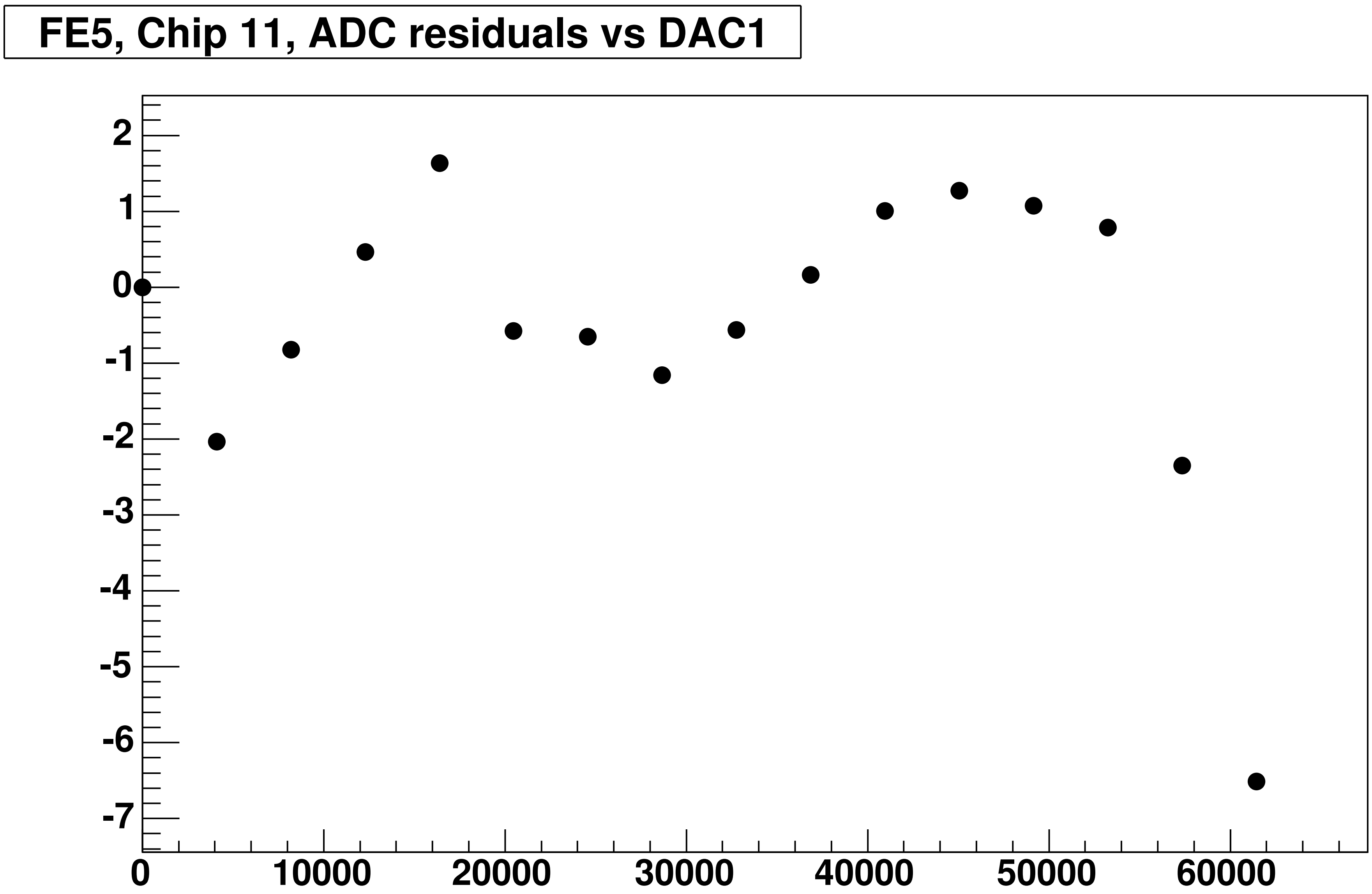


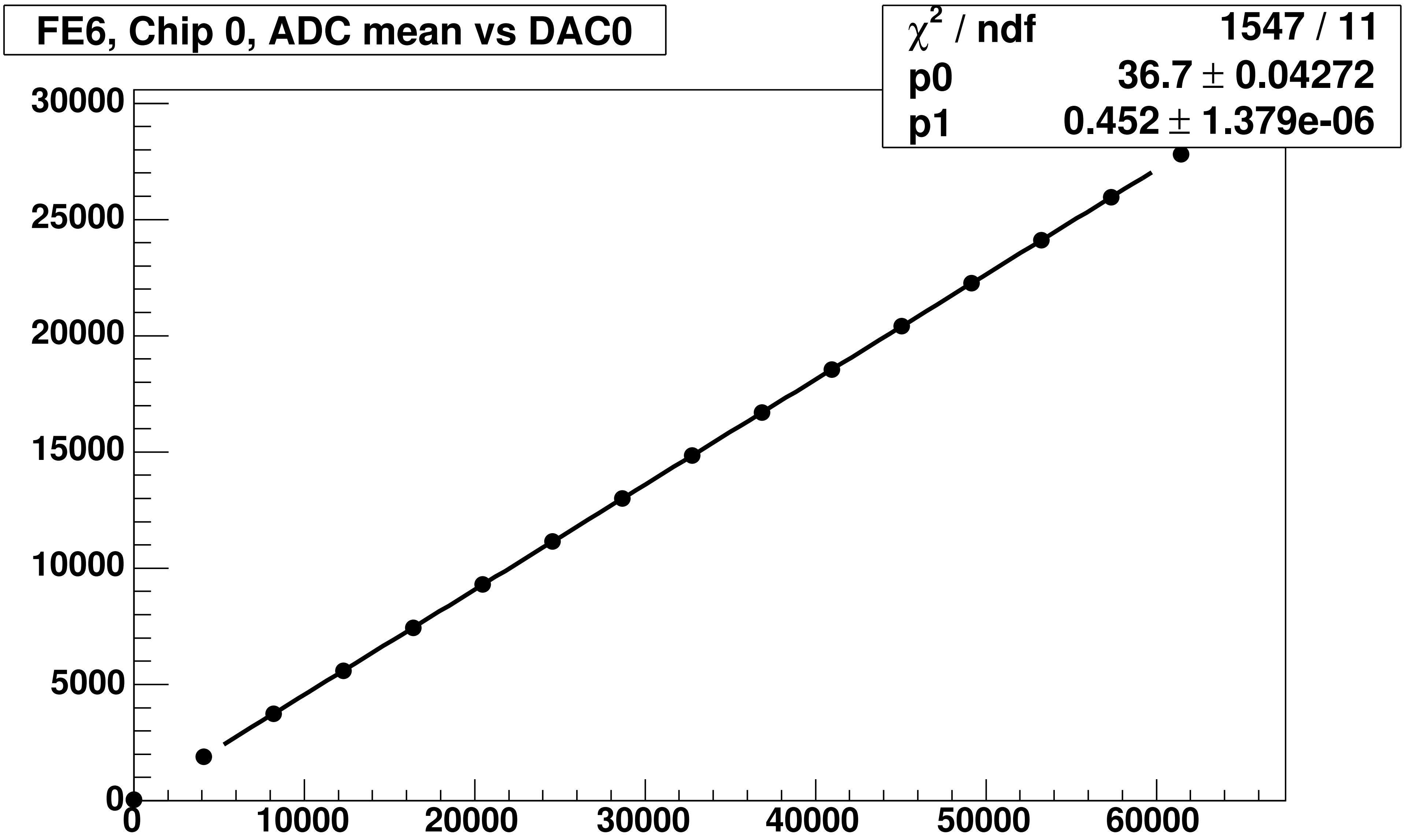
FE5, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



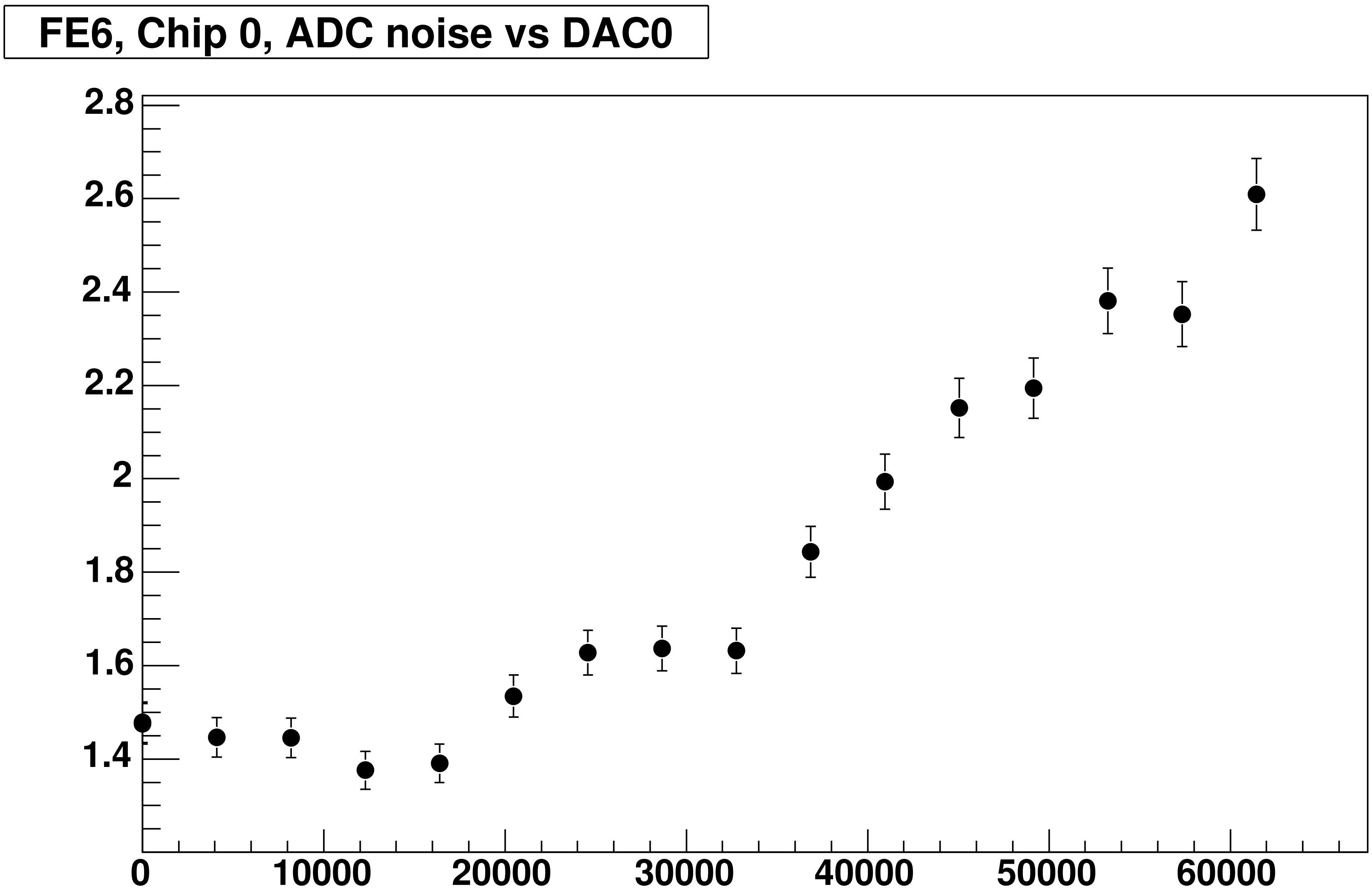
FE5, Chip 11, ADC mean vs DAC1
χ2 / ndf 2698 / 11
p0 87.93 ± 0.04198
p1 0.4505 ± 1.338e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

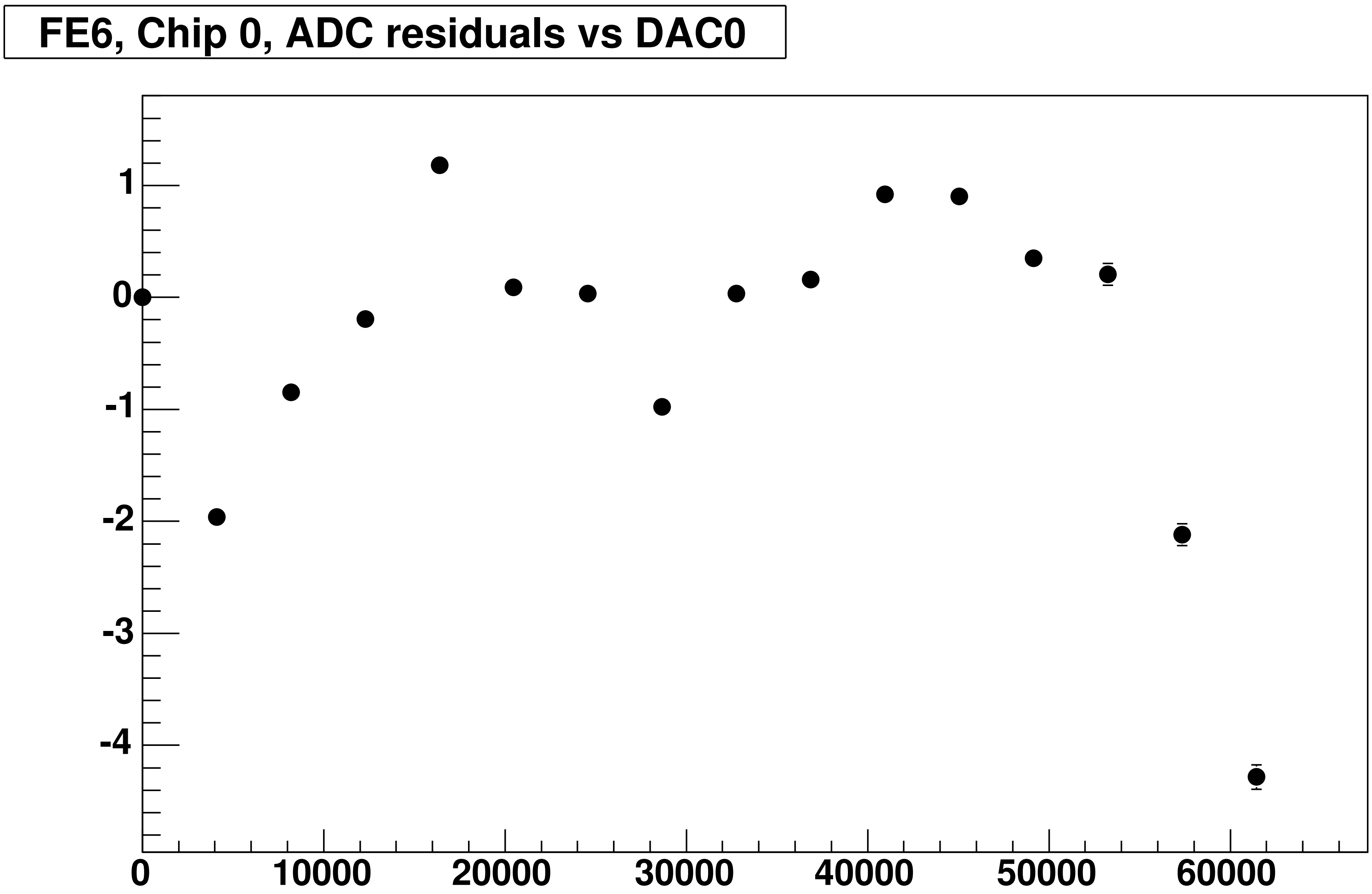

FE5, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

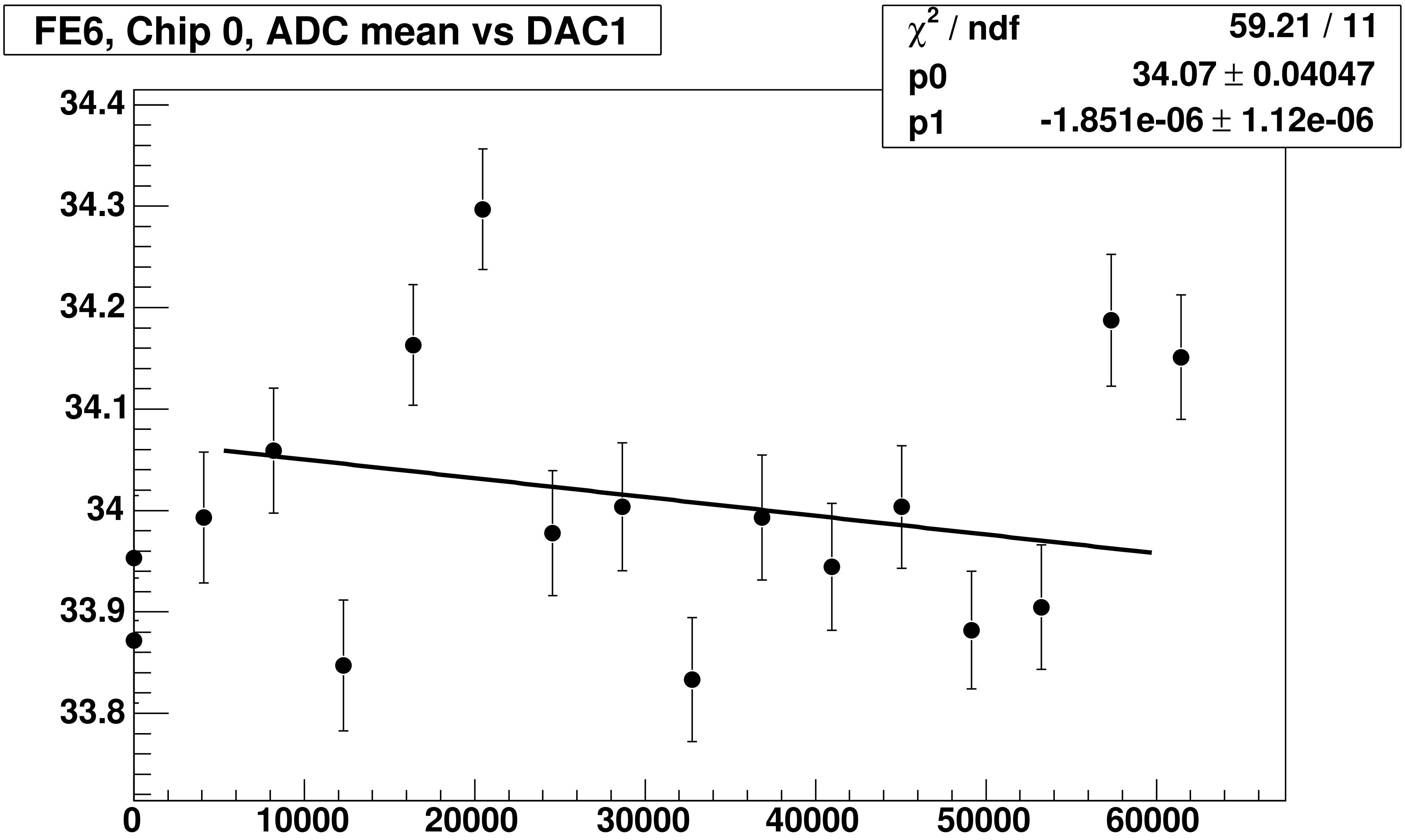


FE6, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1547 / 11
p0 36.7 ± 0.04272
p1 0.452 ± 1.379e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

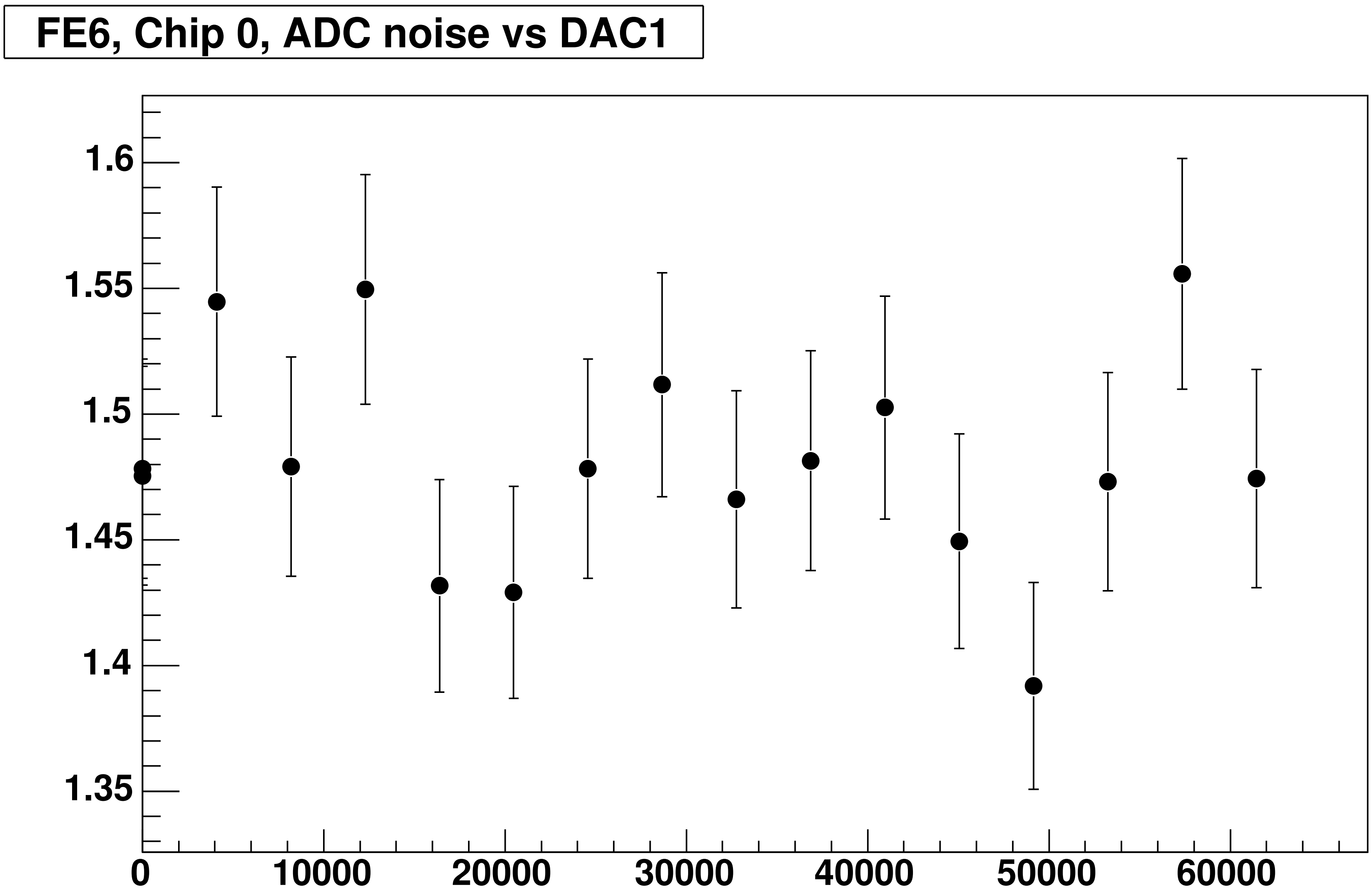


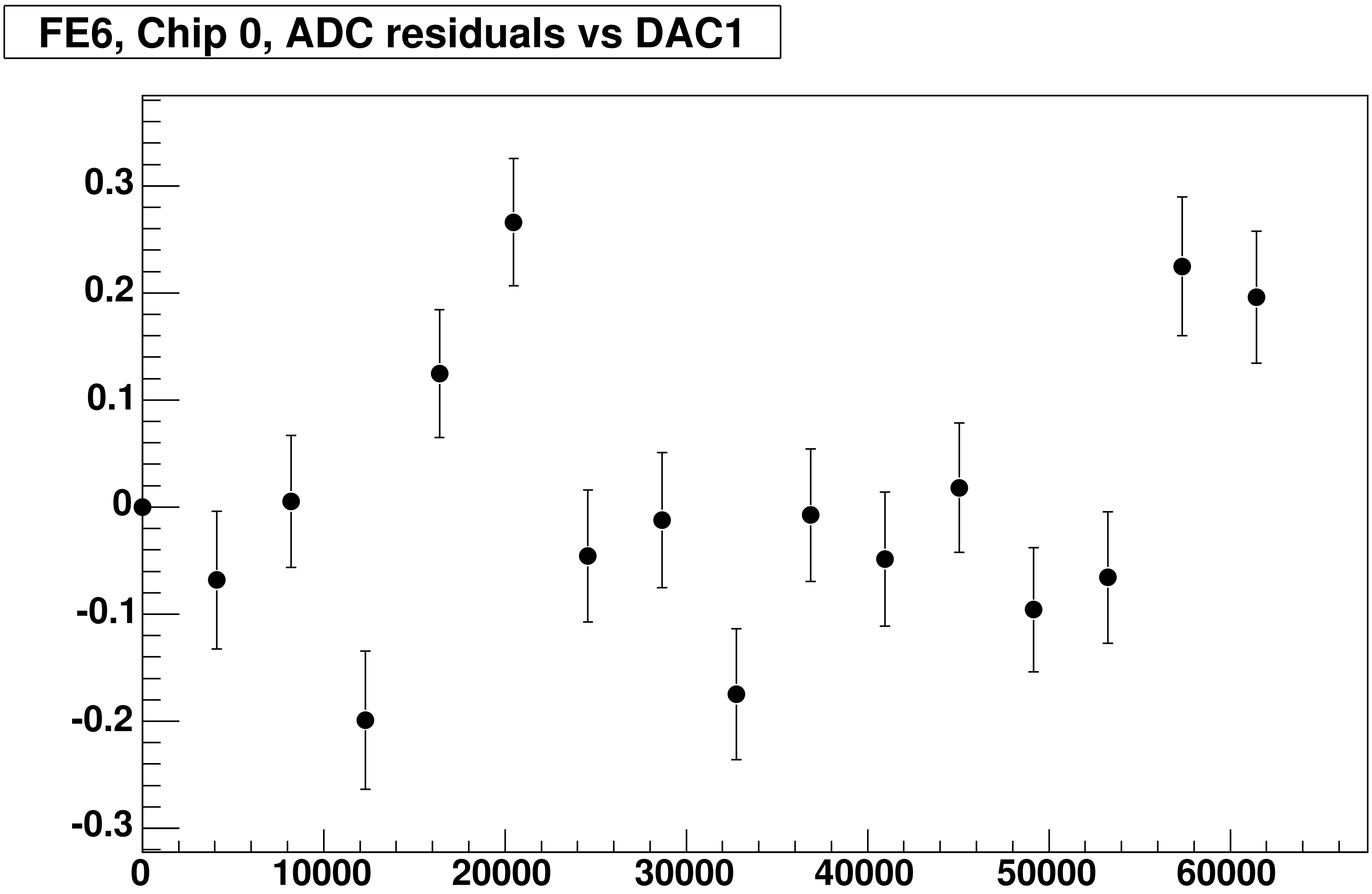
FE6, Chip 0, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

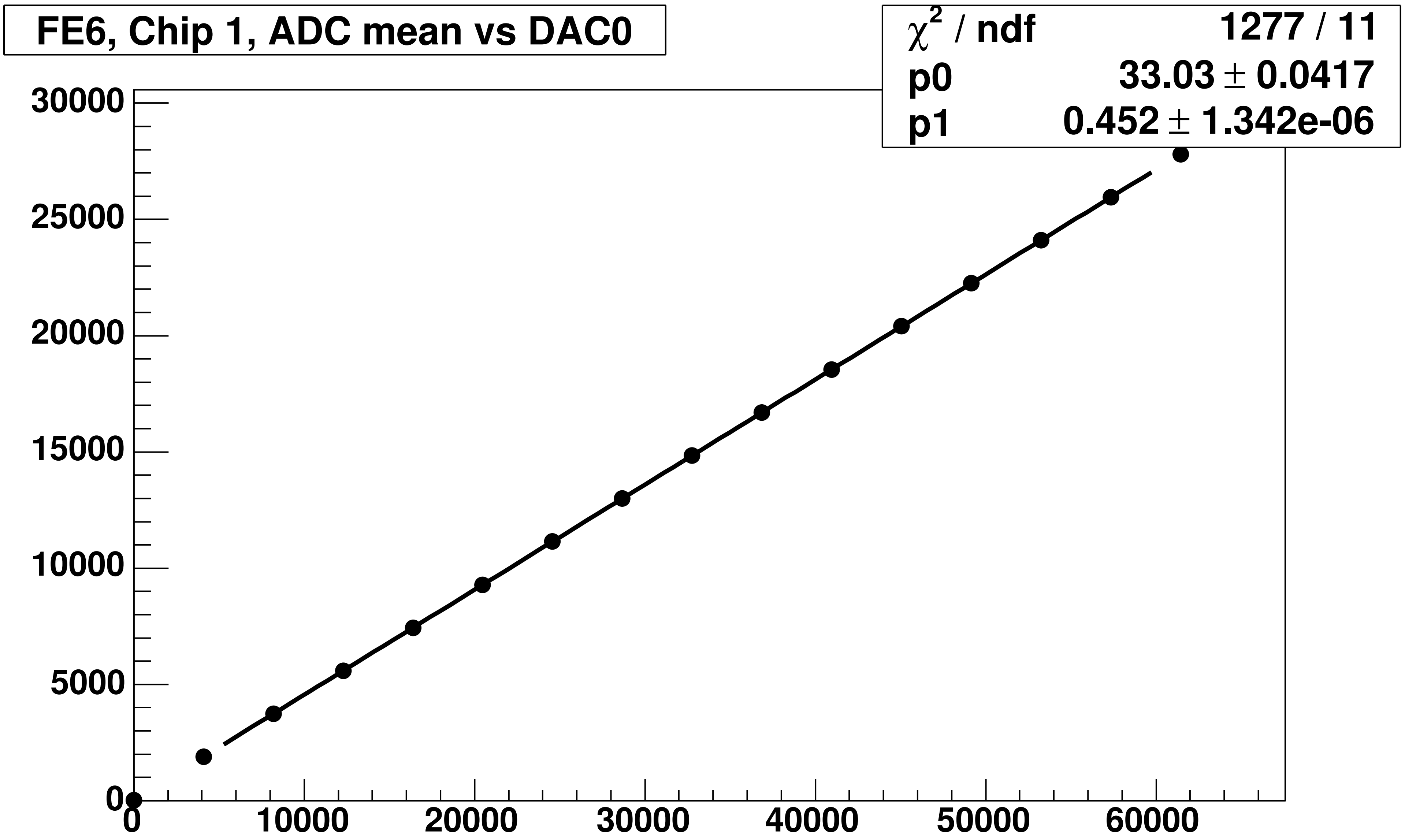

FE6, Chip 0, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

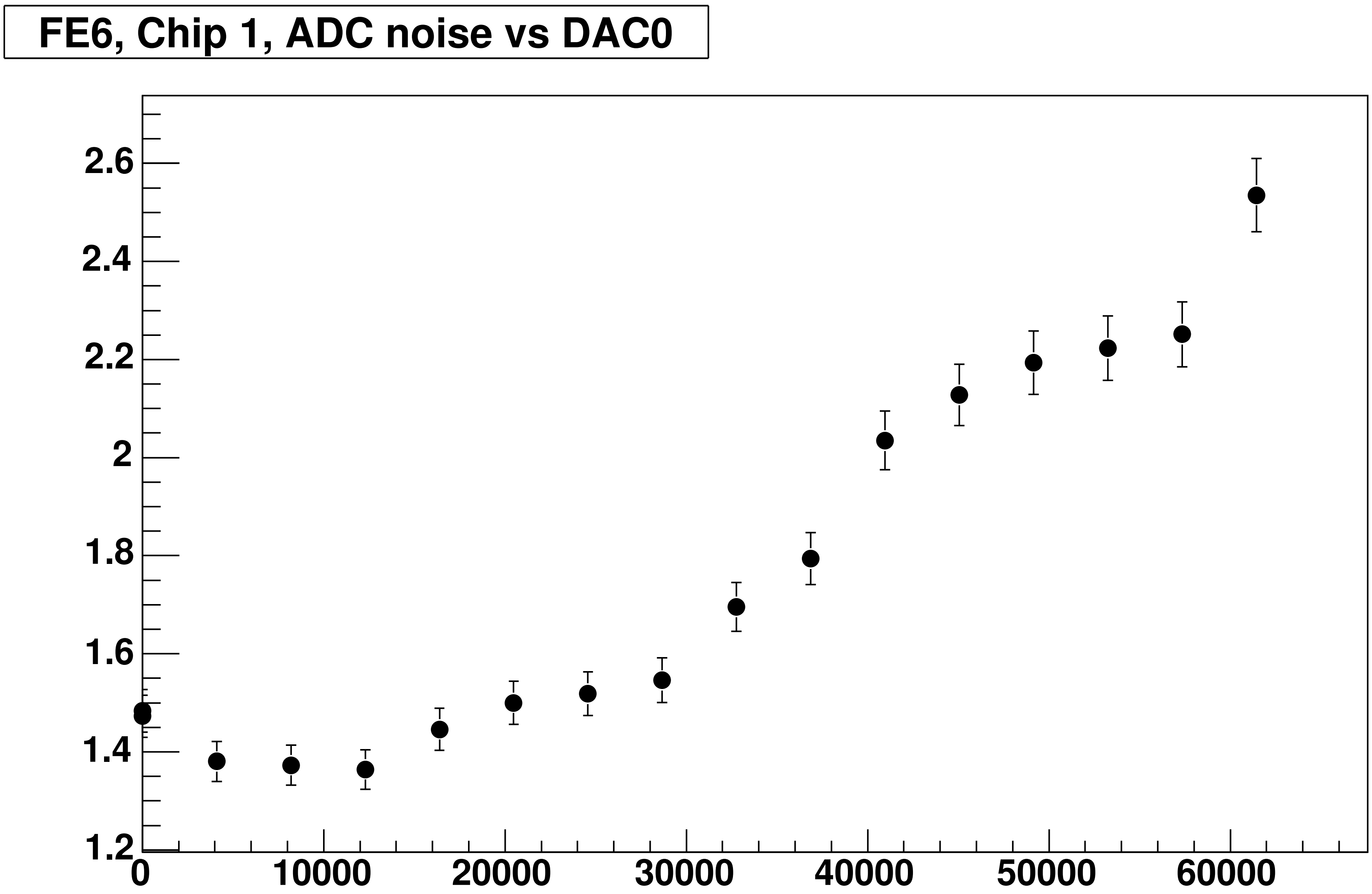


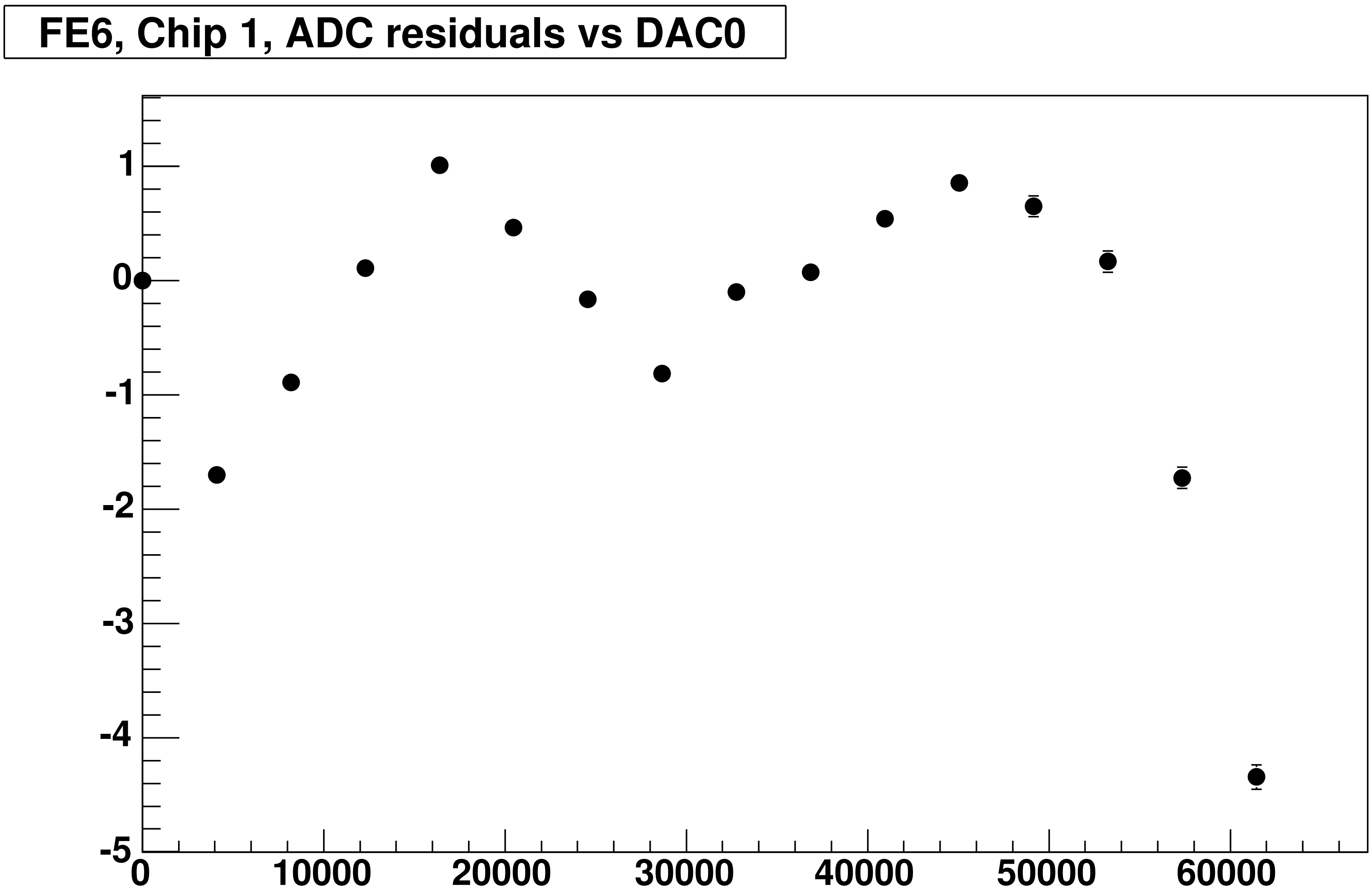
FE6, Chip 0, ADC mean vs DAC1
χ^2 / ndf 59.21 / 11
p0 34.07 ± 0.04047
p1 -1.851e-06 ± 1.12e-06
34.4
34.3
34.2
34.1
34
33.9
33.8
0
10000
20000
30000
40000
50000
60000


FE6, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

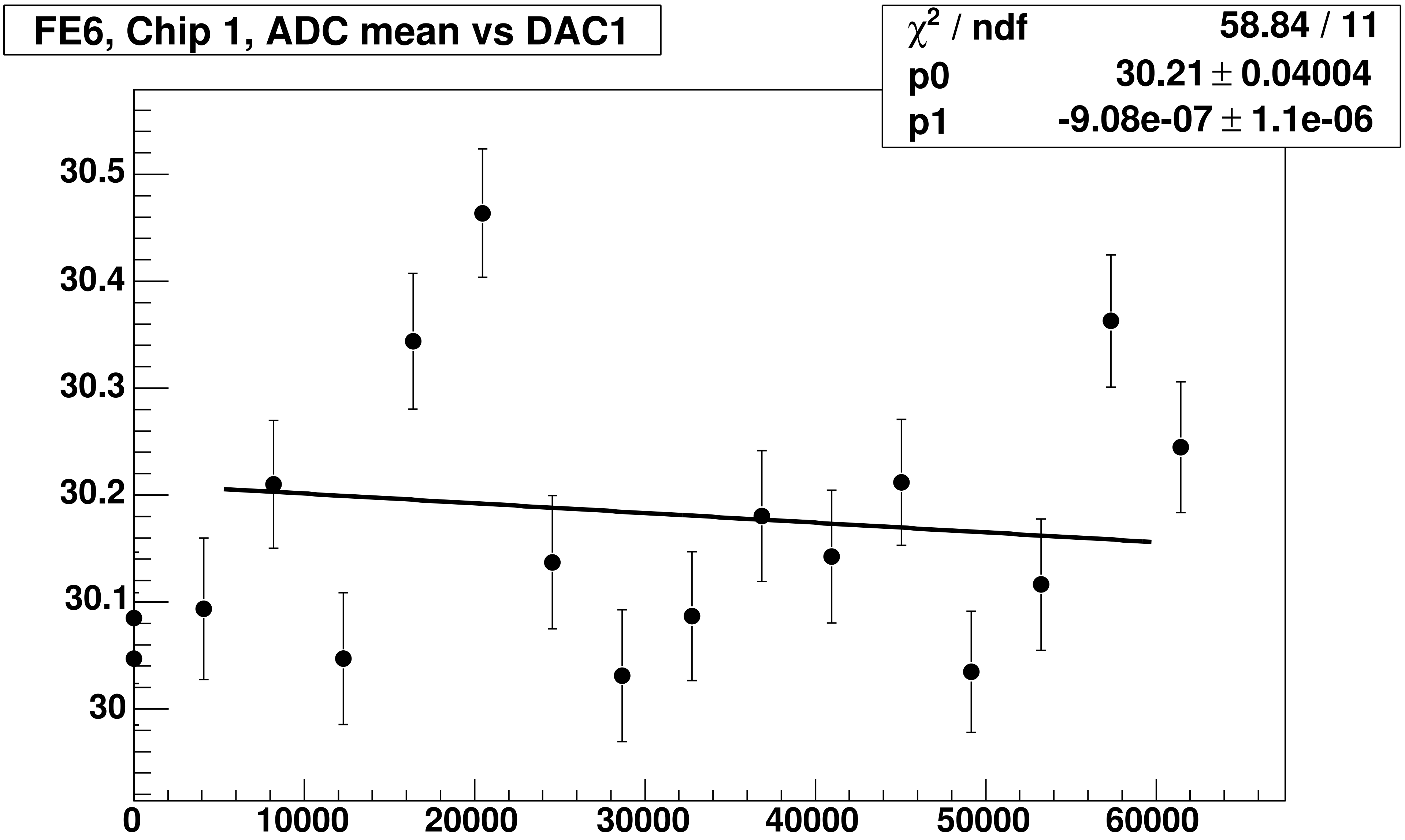

FE6, Chip 0, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE6, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1277 / 11
p0 33.03 ± 0.0417
p1 0.452 ± 1.342e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

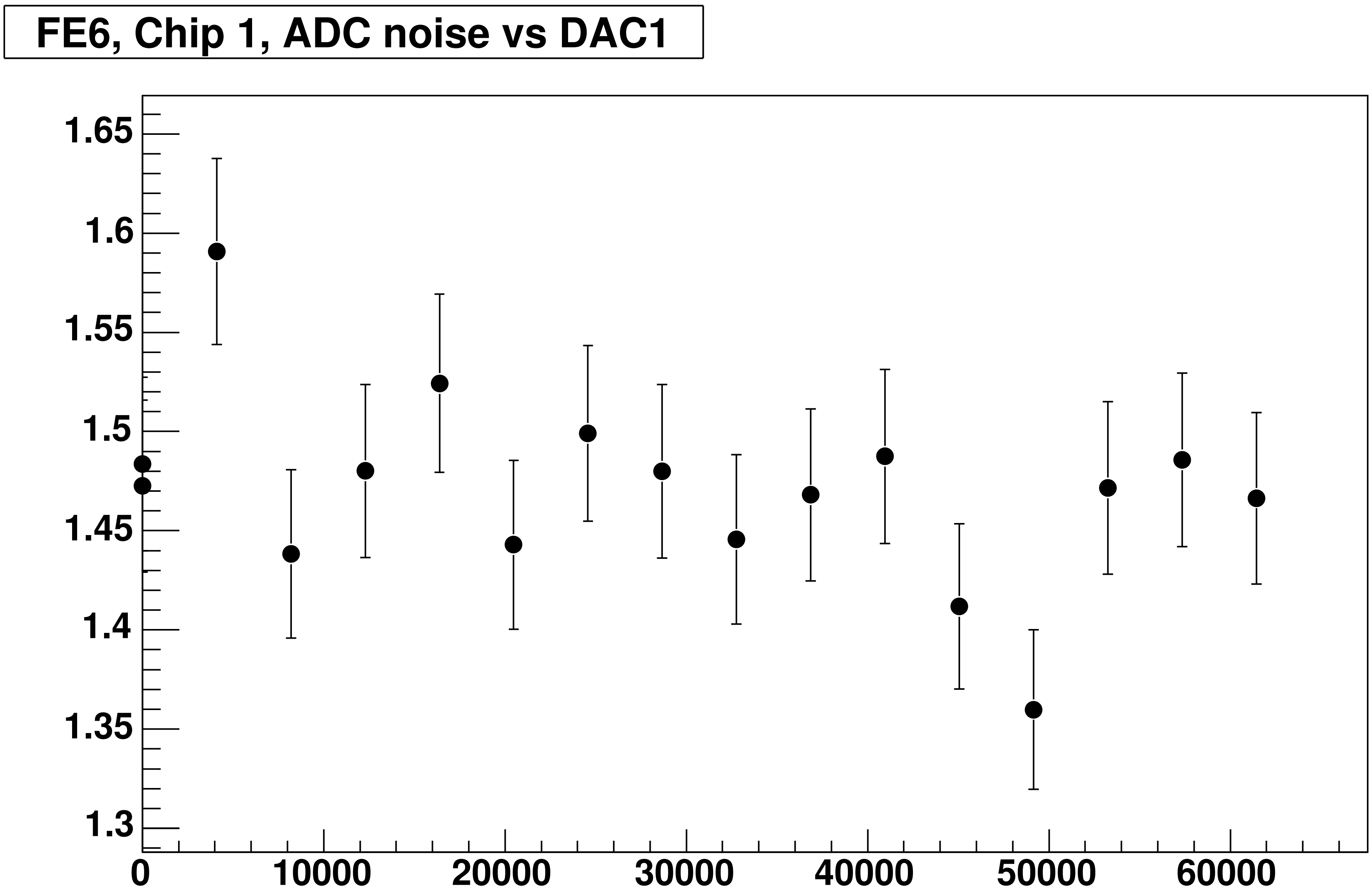

FE6, Chip 1, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

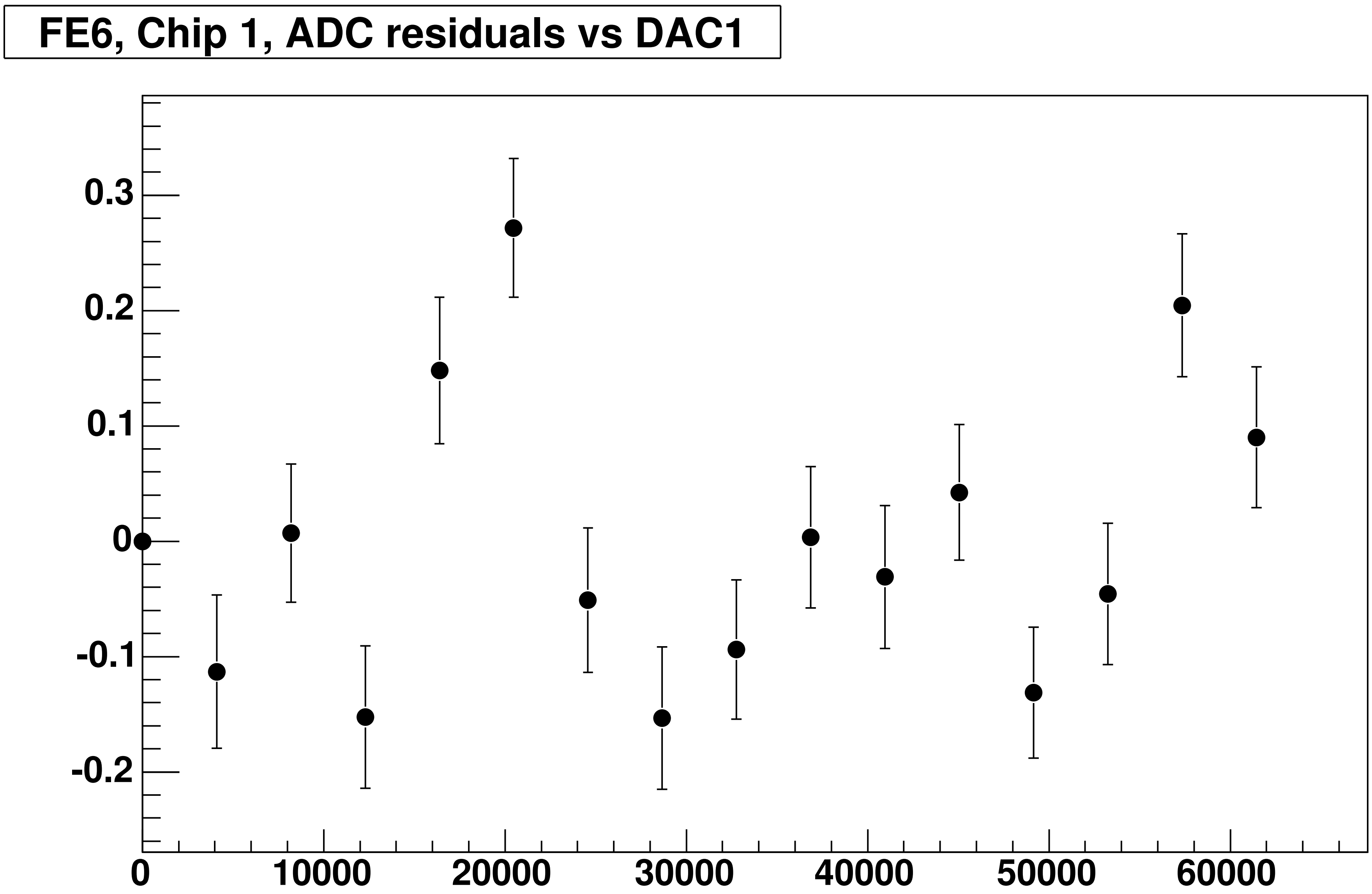


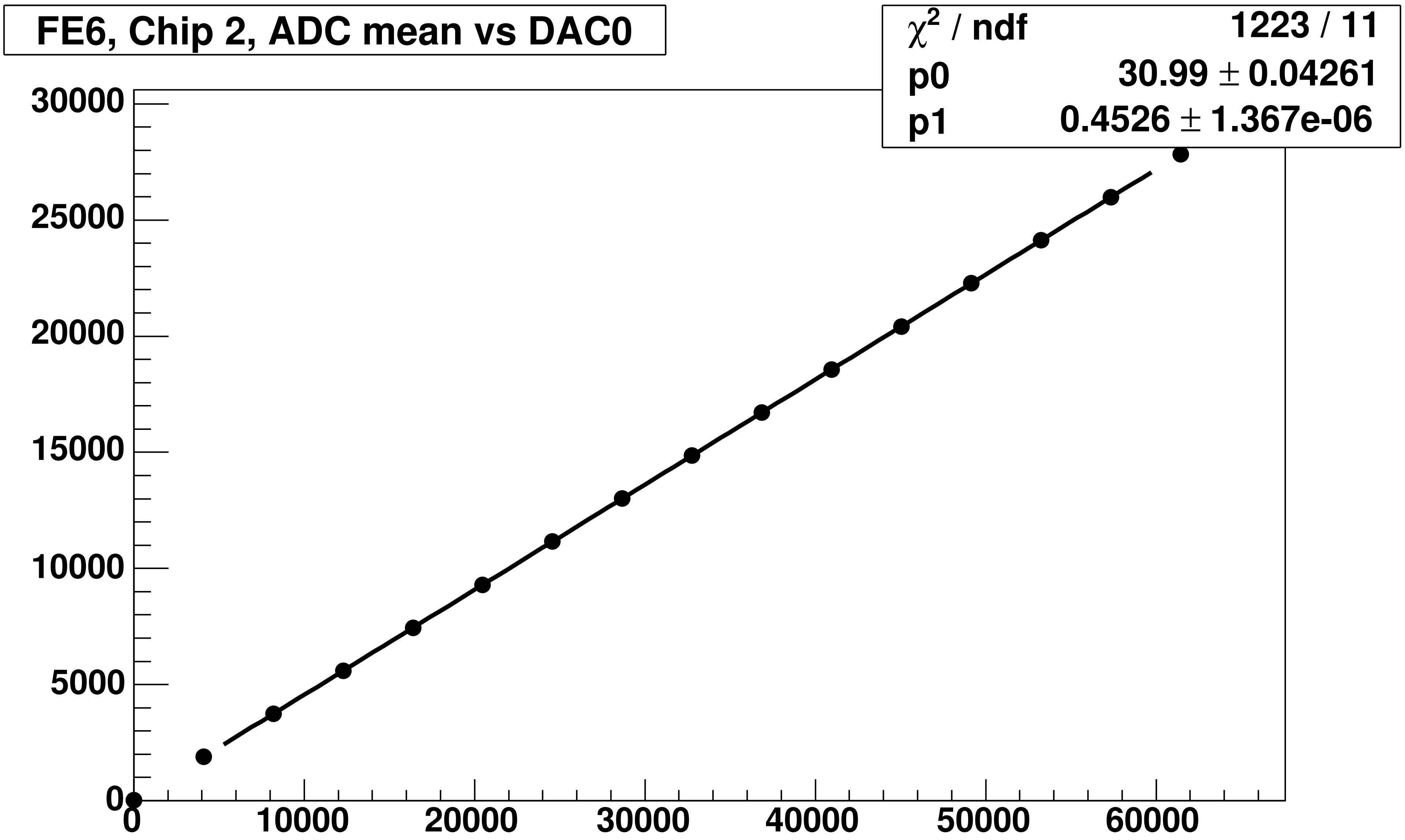
FE6, Chip 1, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

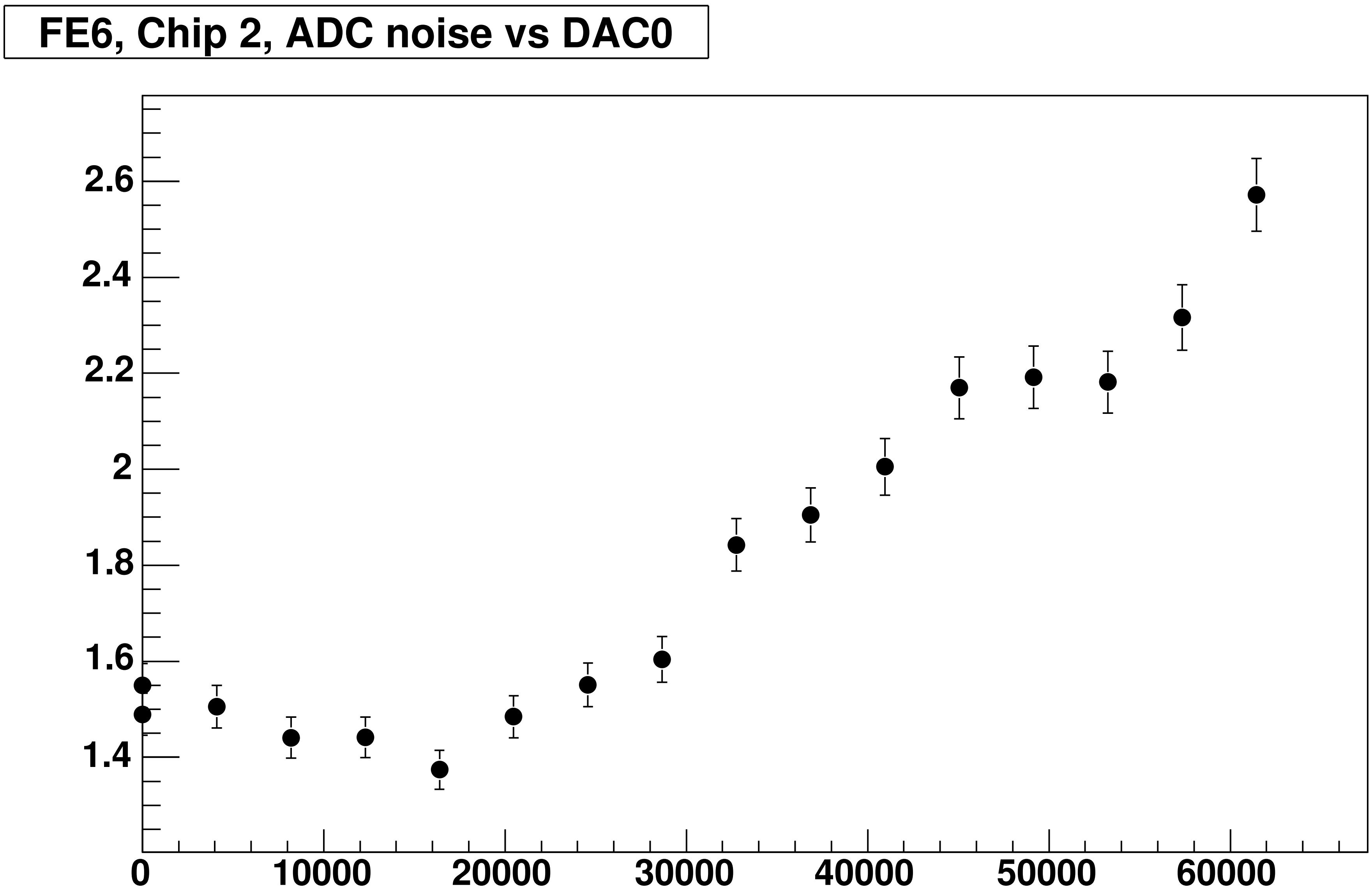


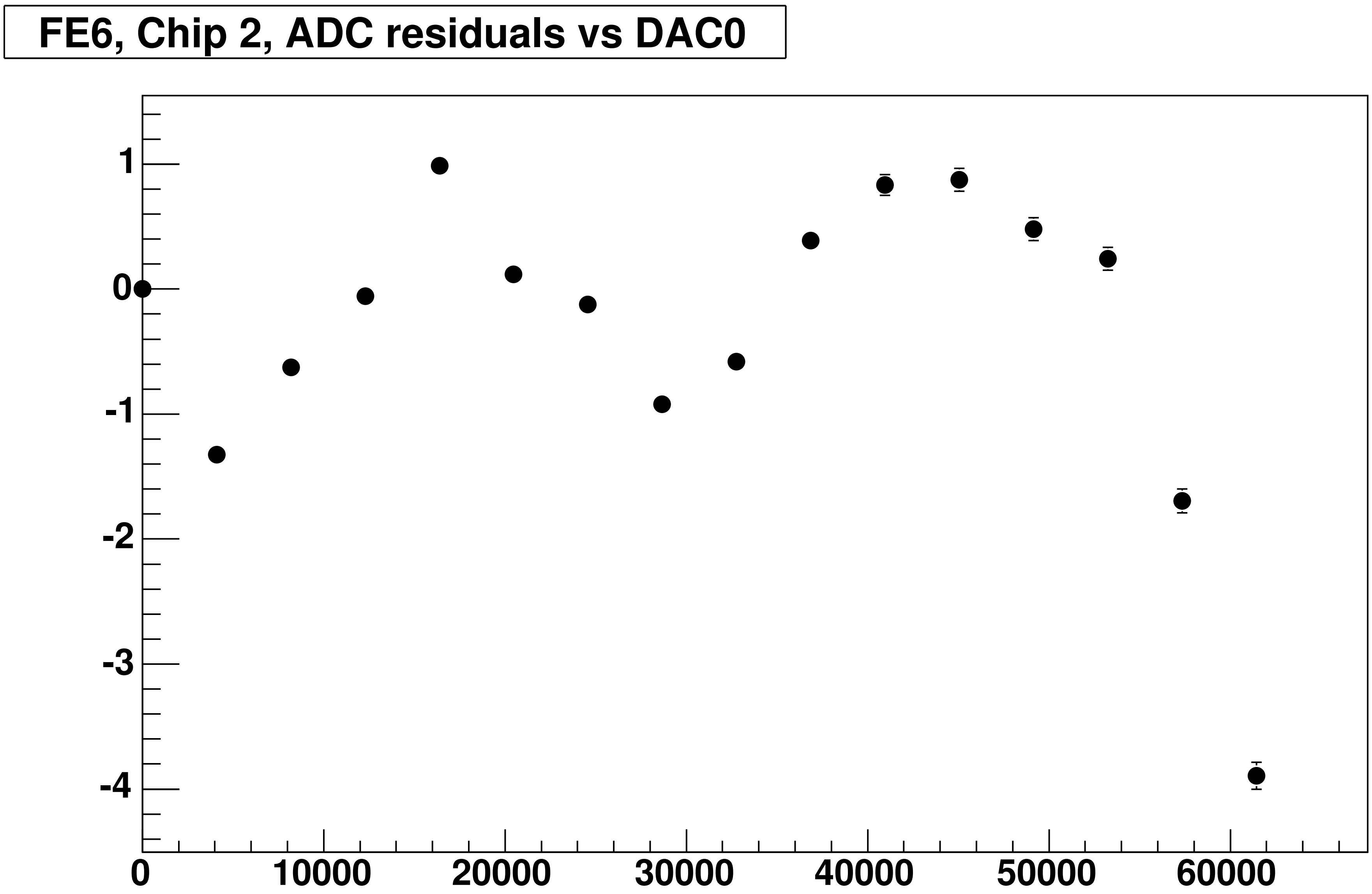
FE6, Chip 1, ADC mean vs DAC1
χ² / ndf 58.84 / 11
p0 30.21 ± 0.04004
p1 -9.08e-07 ± 1.1e-06
30.5
30.4
30.3
30.2
30.1
30
0
10000
20000
30000
40000
50000
60000

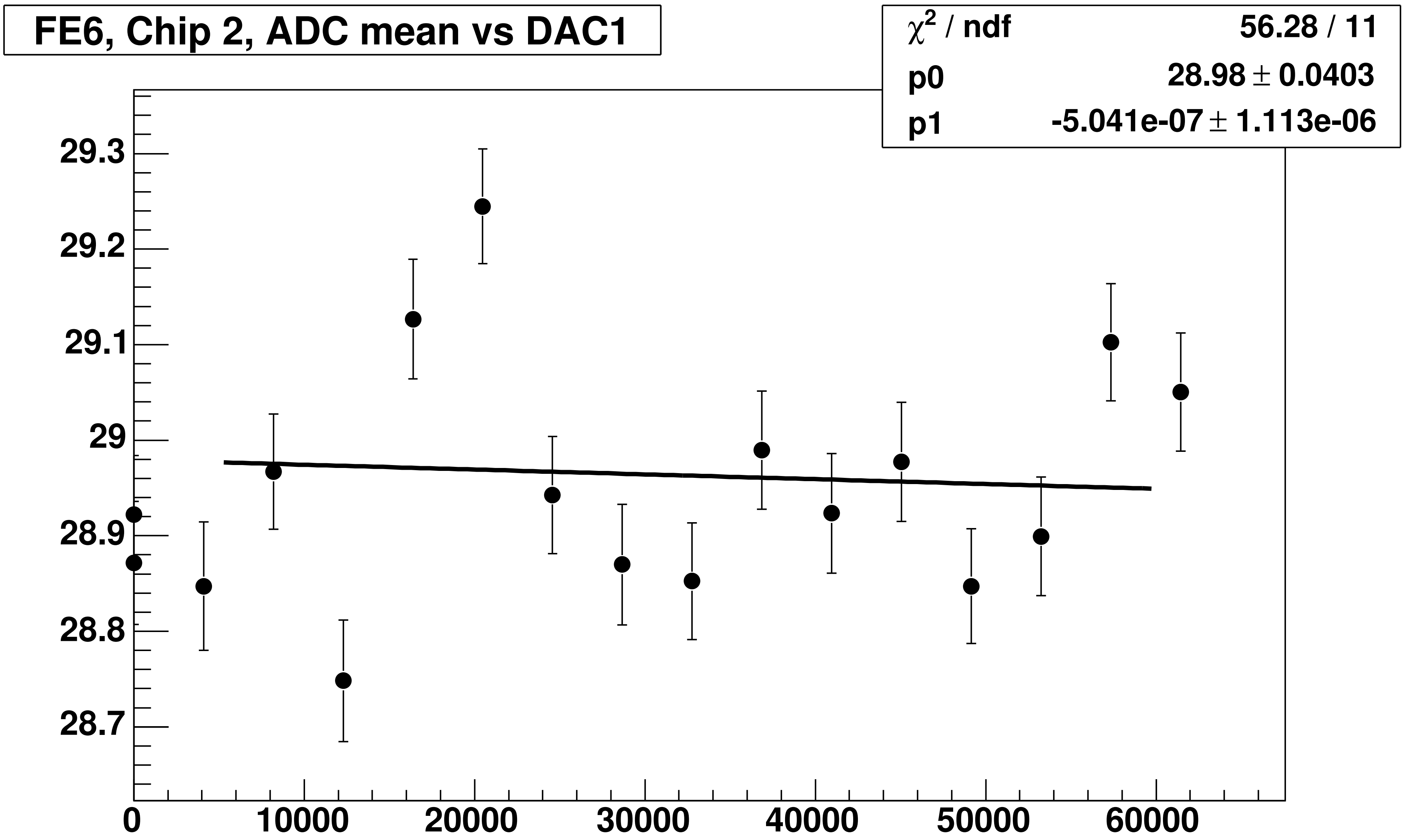

FE6, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


FE6, Chip 1, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

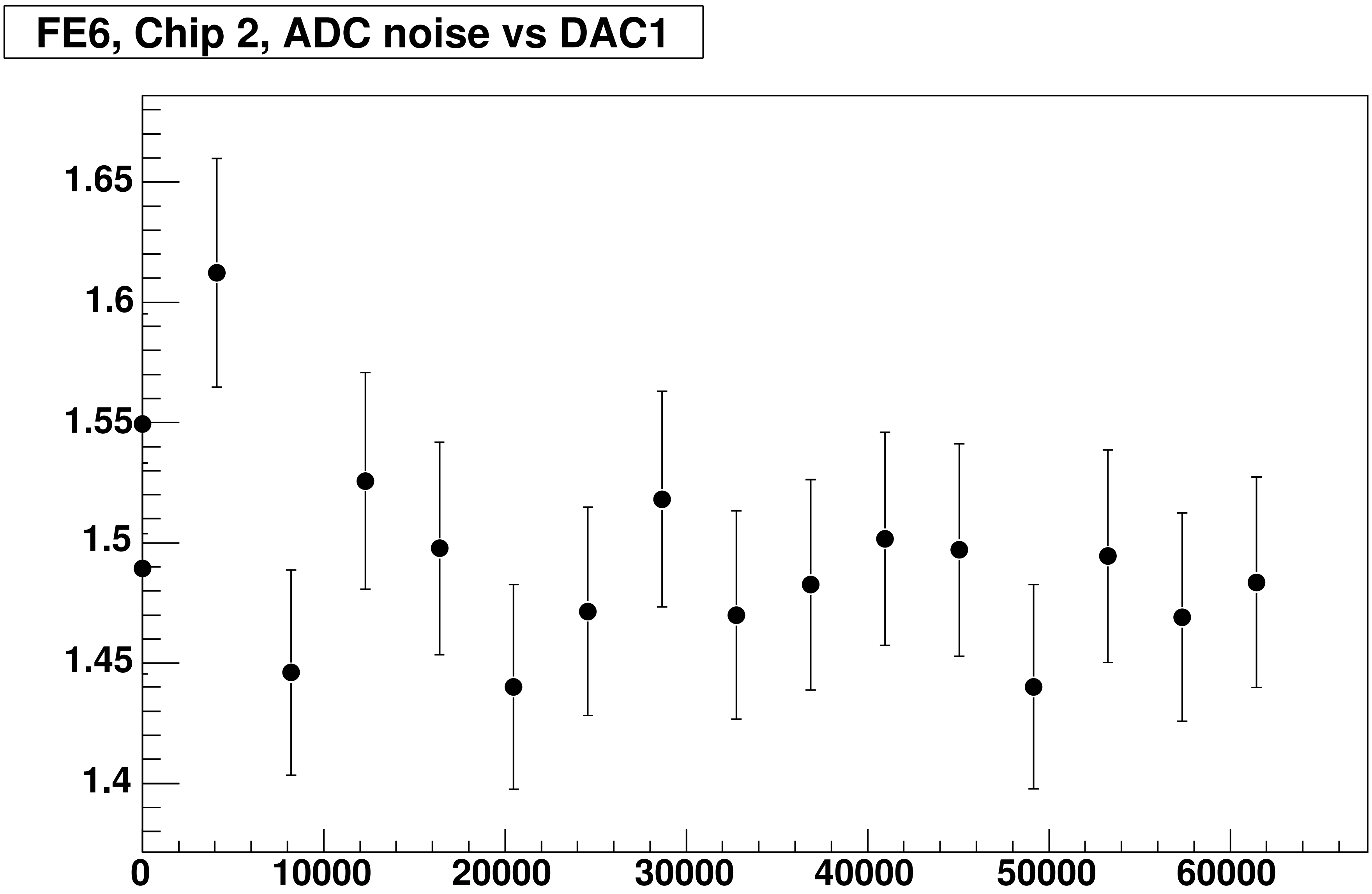

FE6, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1223 / 11
p0 30.99 ± 0.04261
p1 0.4526 ± 1.367e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

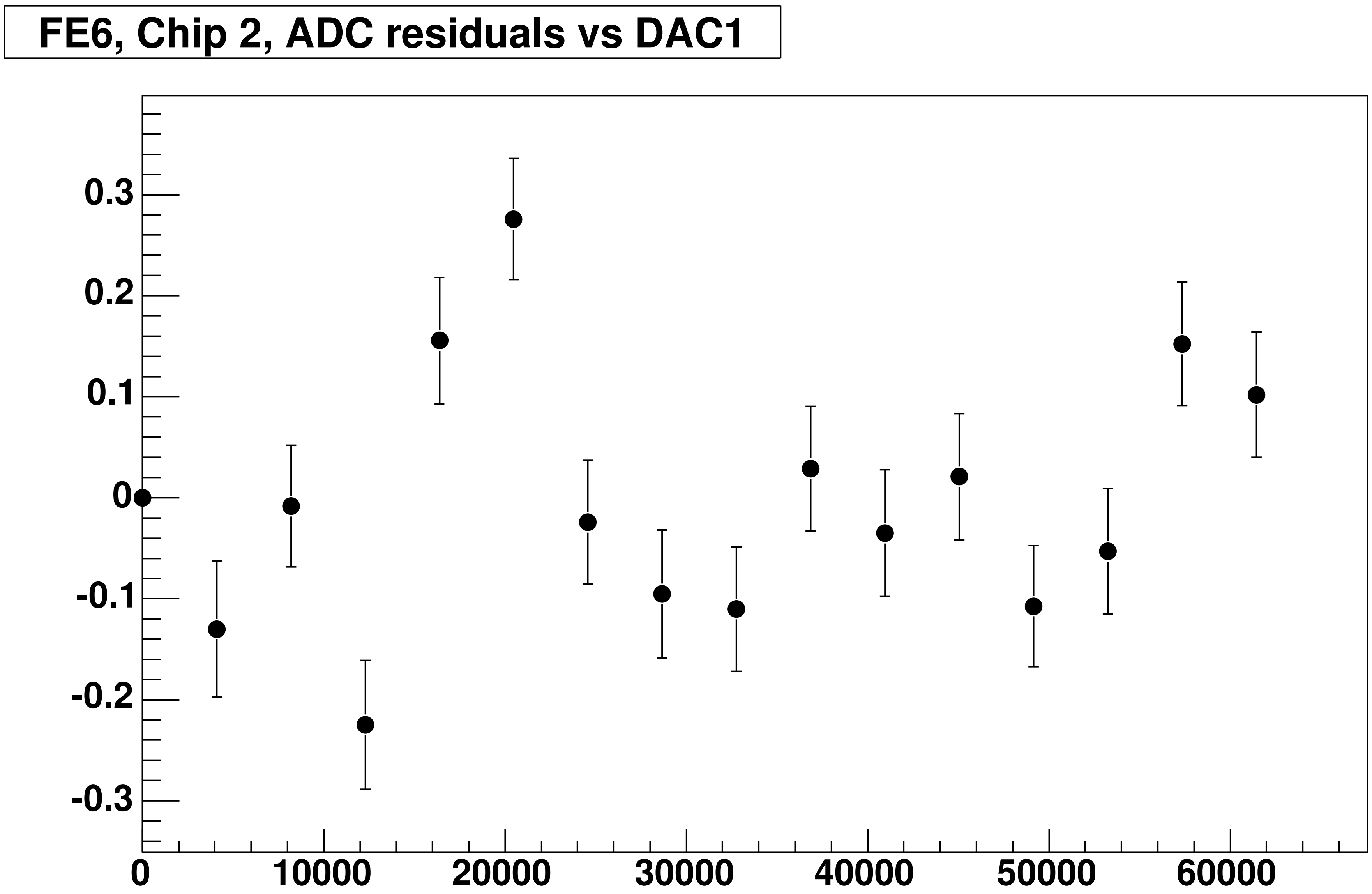

FE6, Chip 2, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

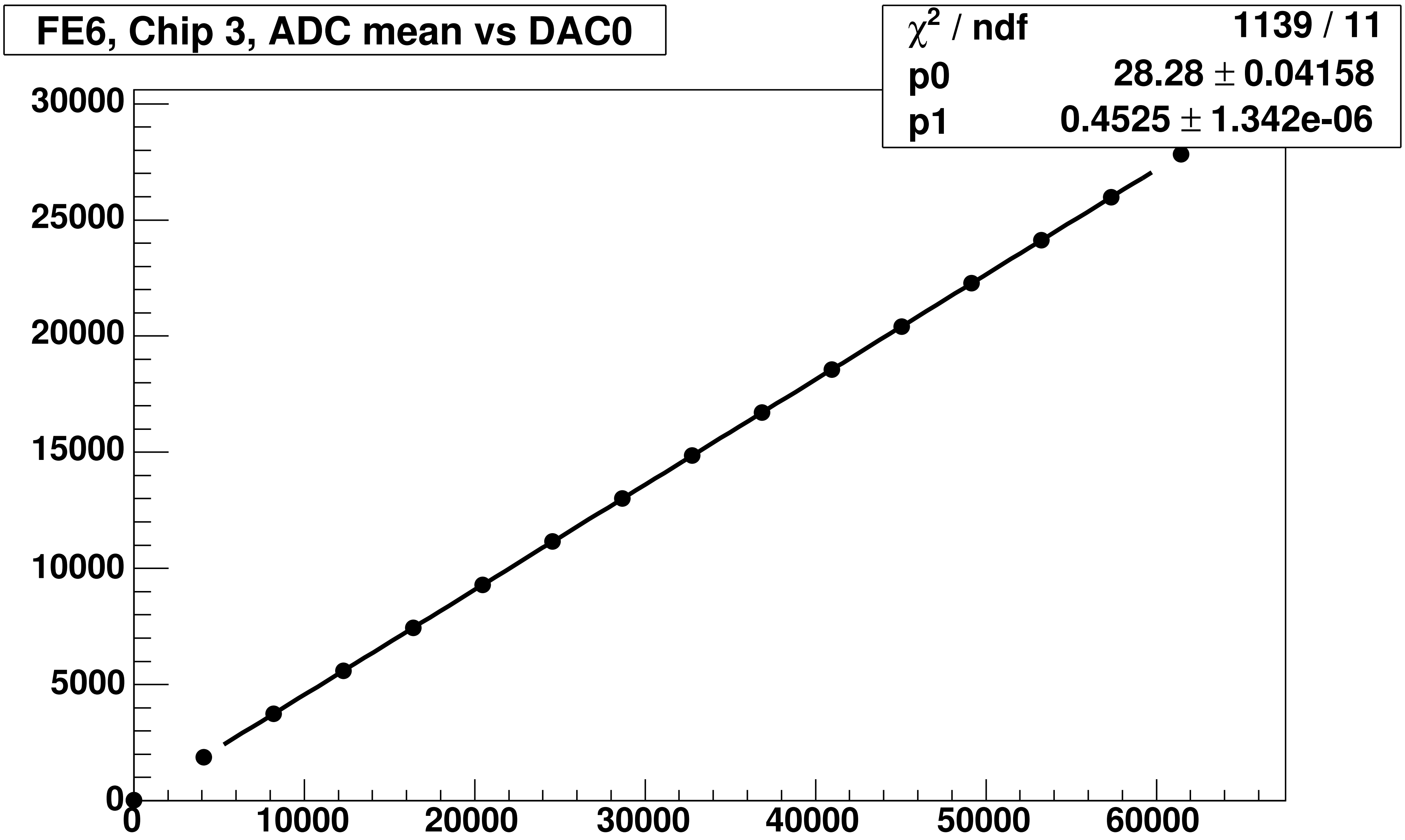

FE6, Chip 2, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

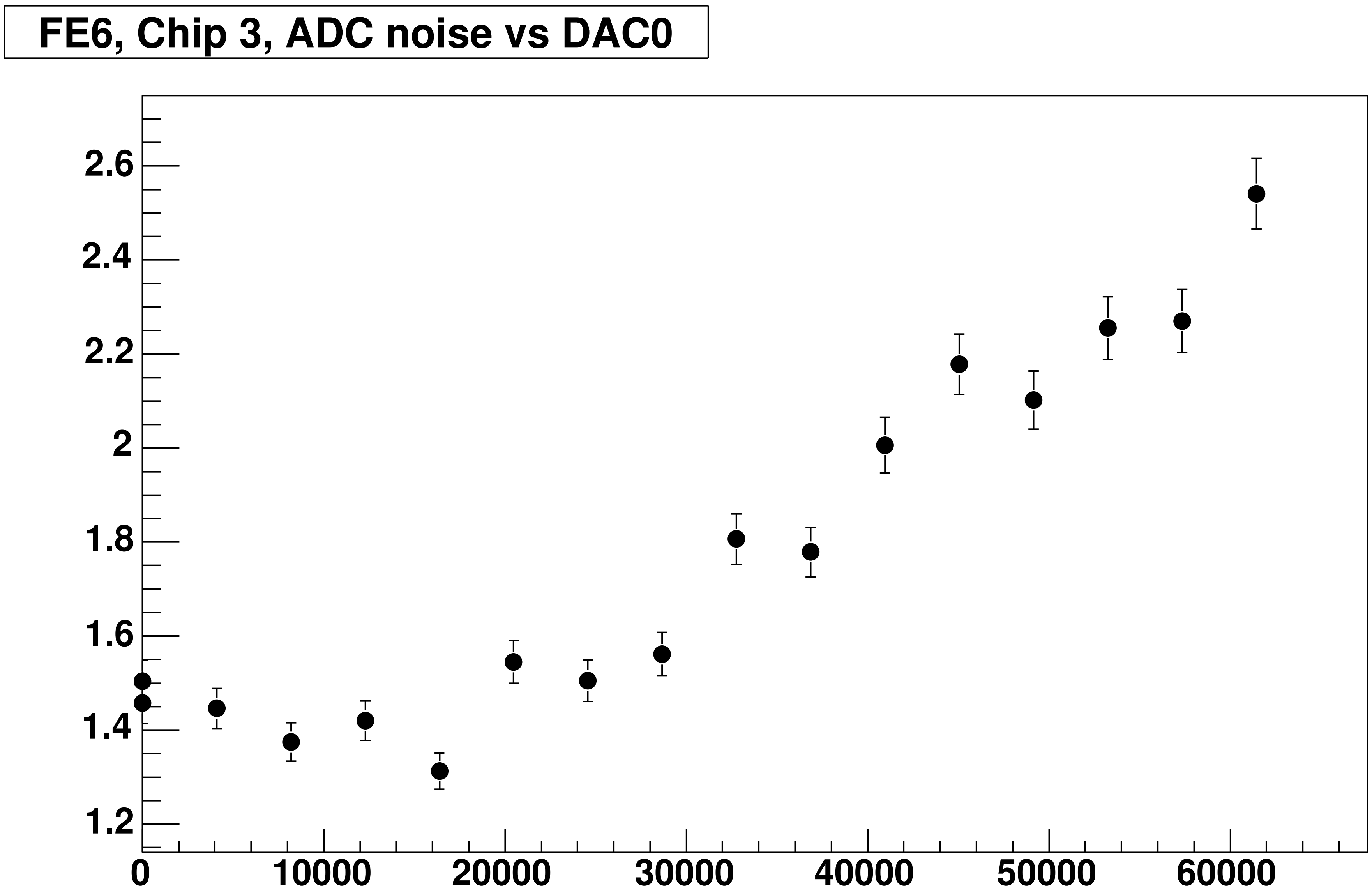


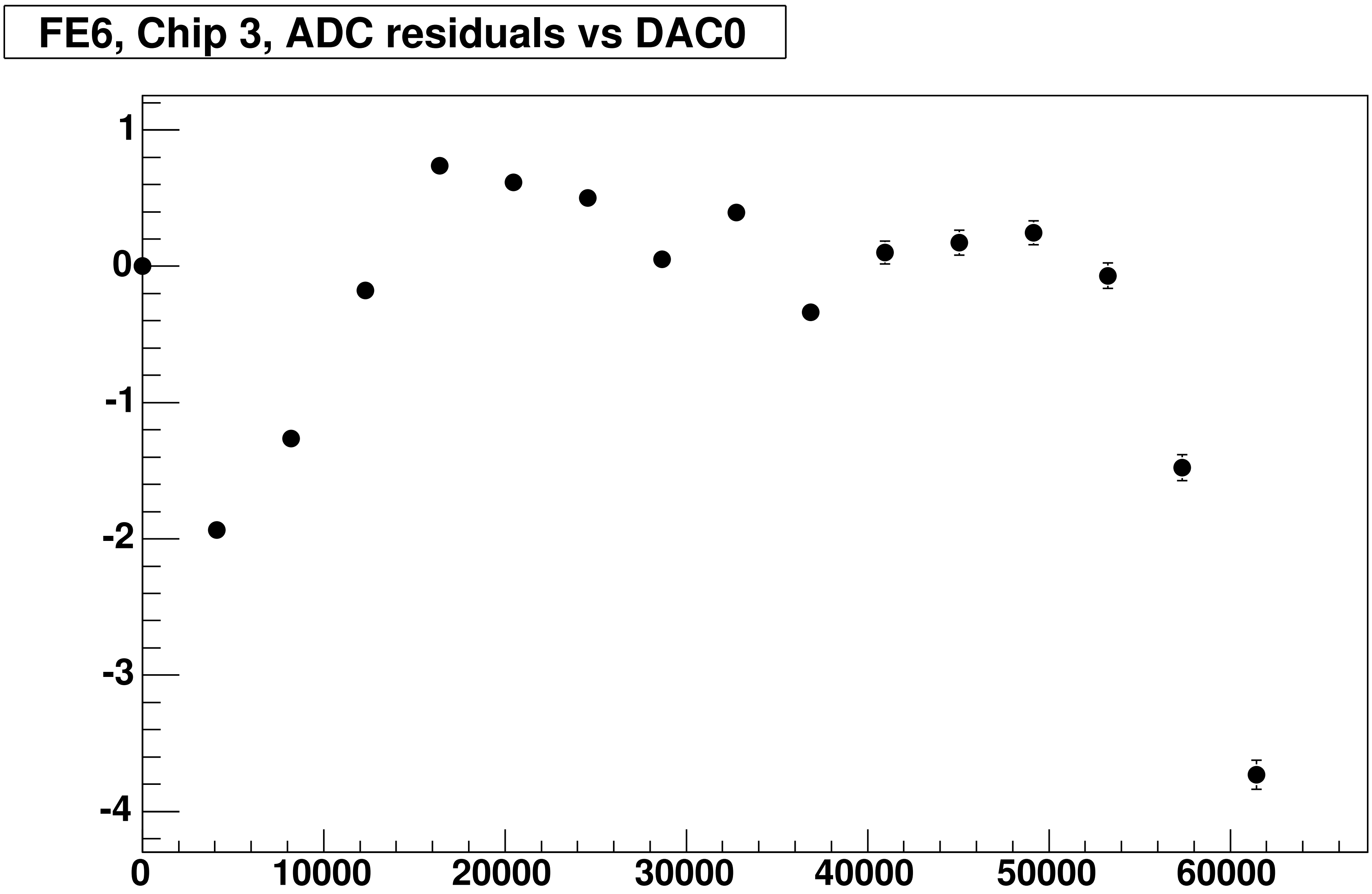
FE6, Chip 2, ADC mean vs DAC1
χ^2 / ndf 56.28 / 11
p0 28.98 ± 0.0403
p1 -5.041e-07 ± 1.113e-06
29.3
29.2
29.1
29
28.9
28.8
28.7
0
10000
20000
30000
40000
50000
60000

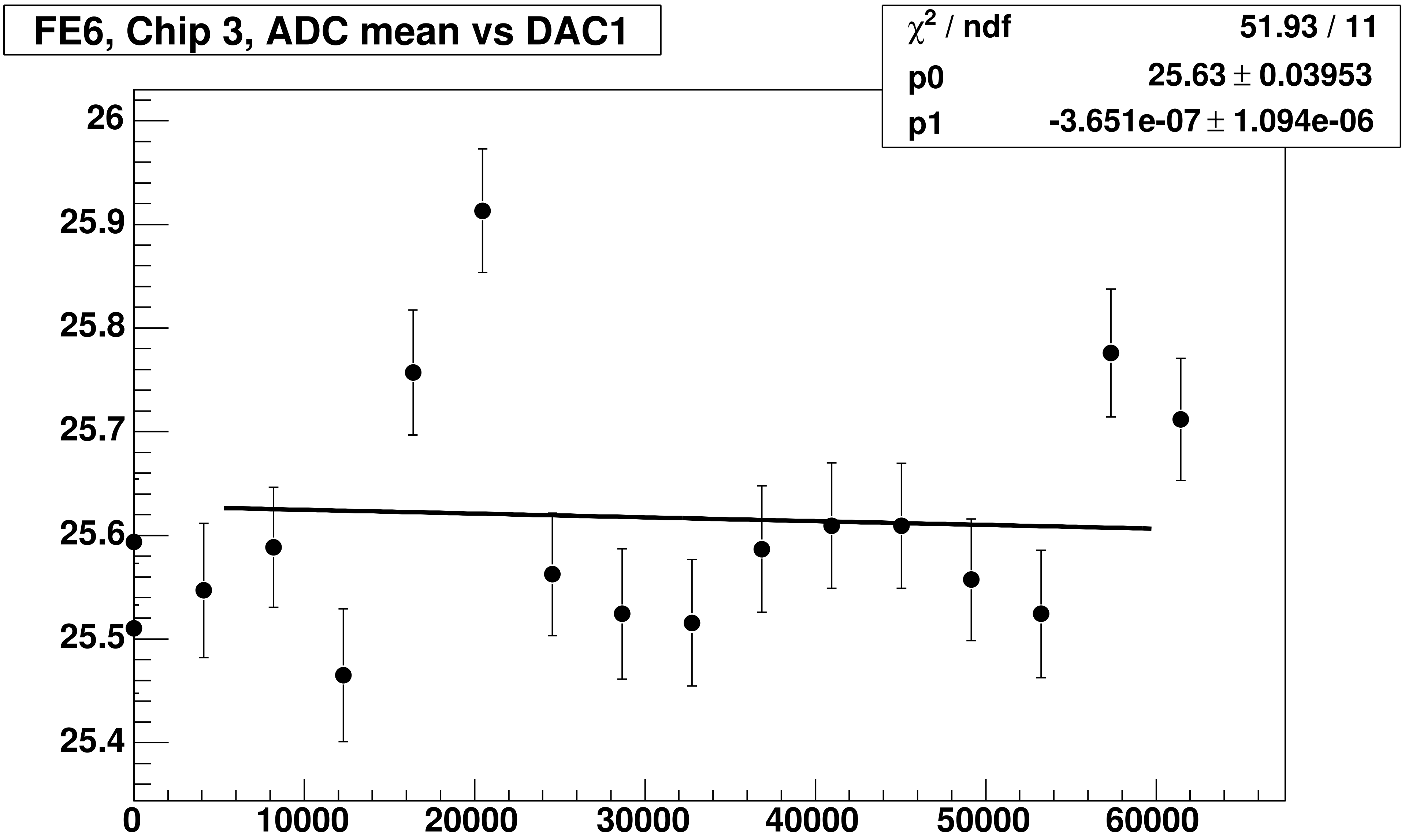

FE6, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


FE6, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

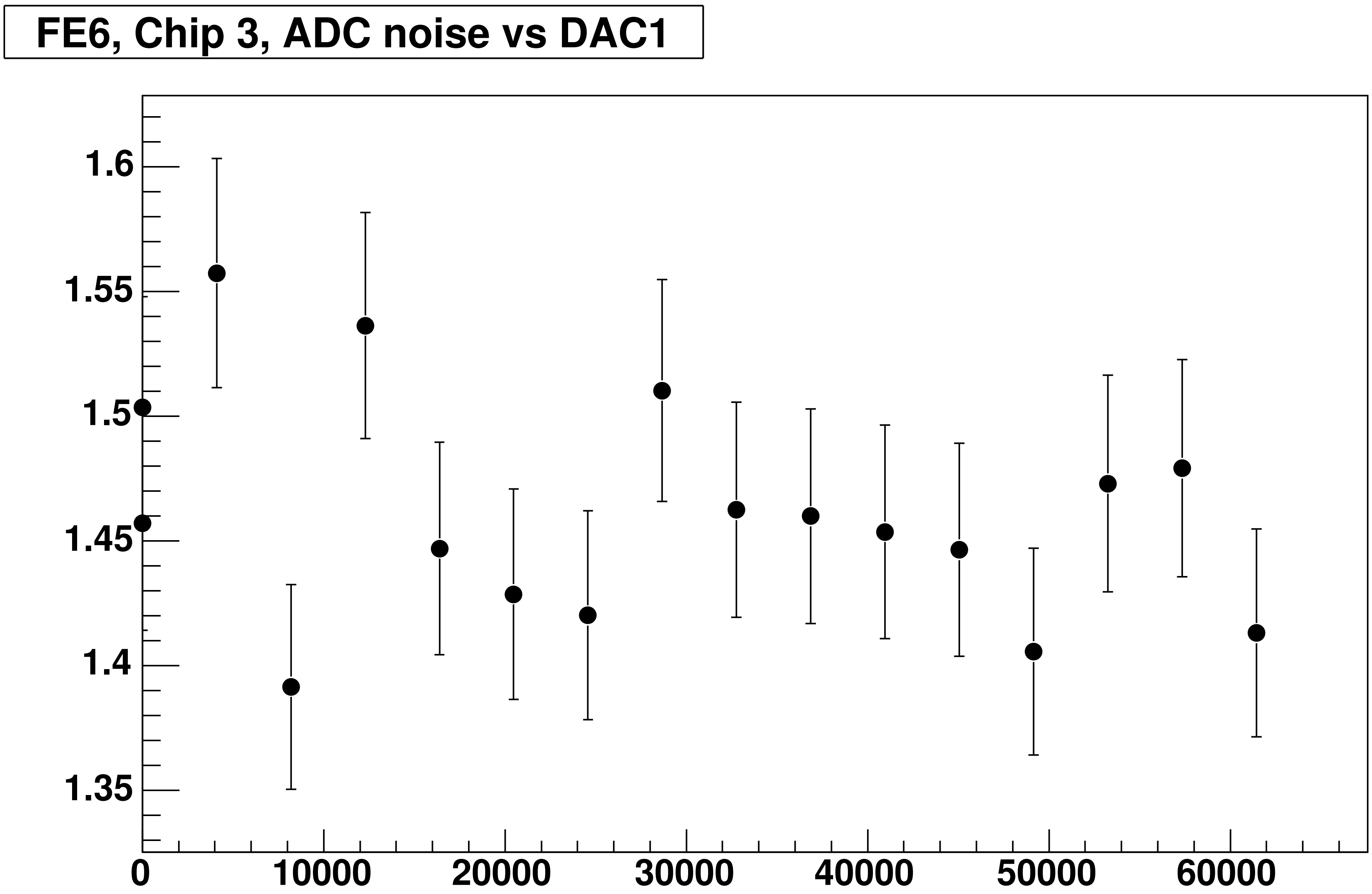

FE6, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1139 / 11
p0 28.28 ± 0.04158
p1 0.4525 ± 1.342e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

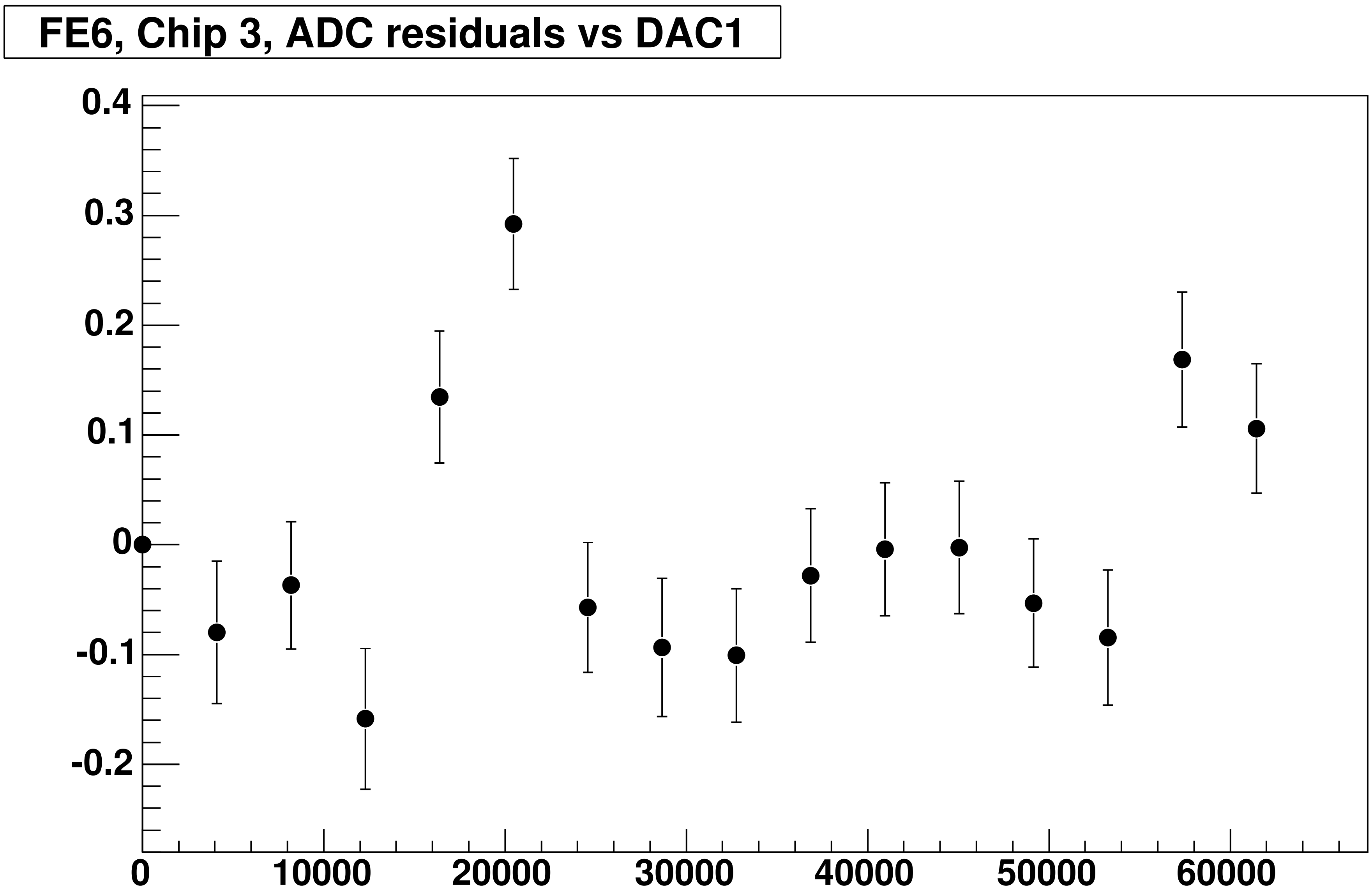

FE6, Chip 3, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

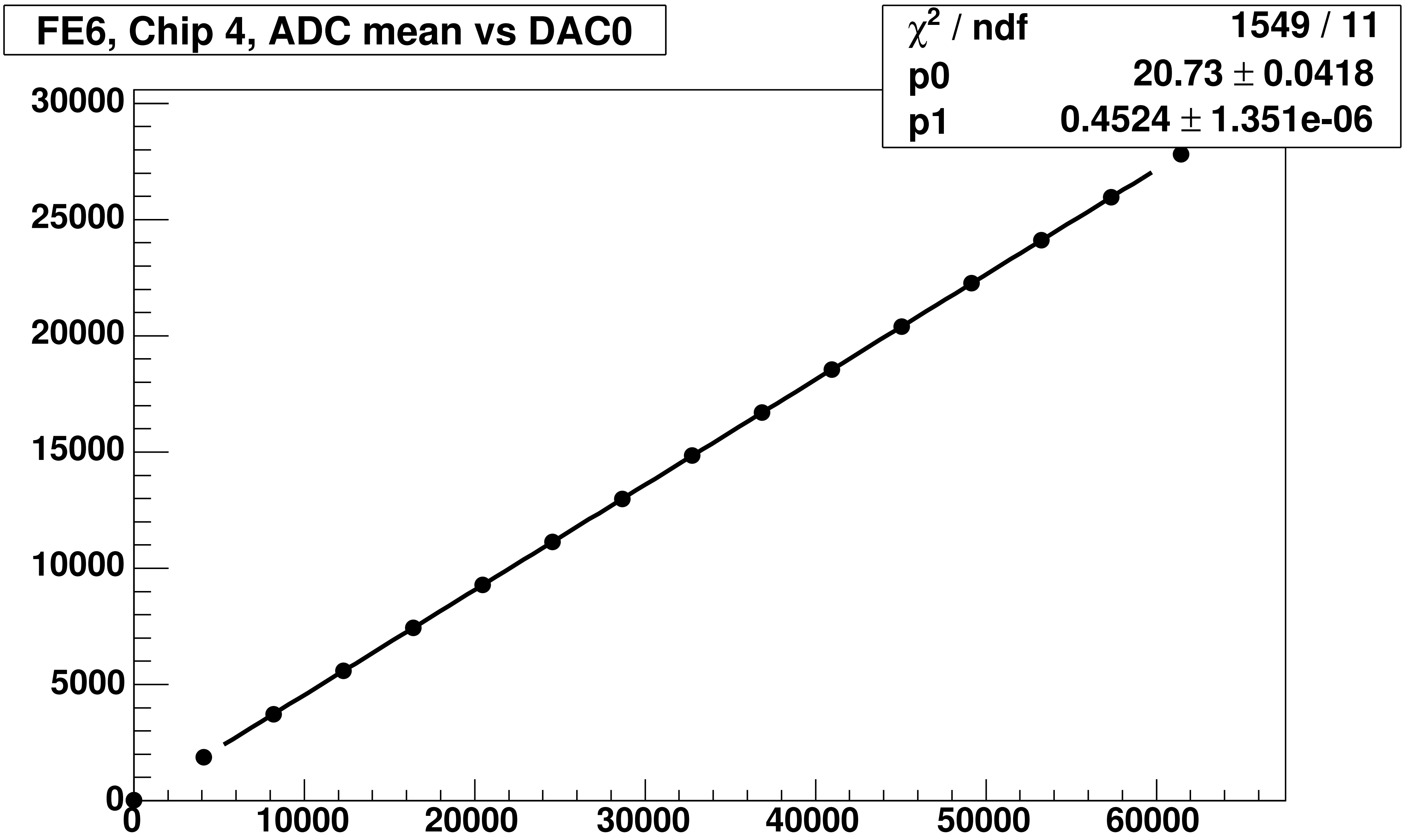

FE6, Chip 3, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



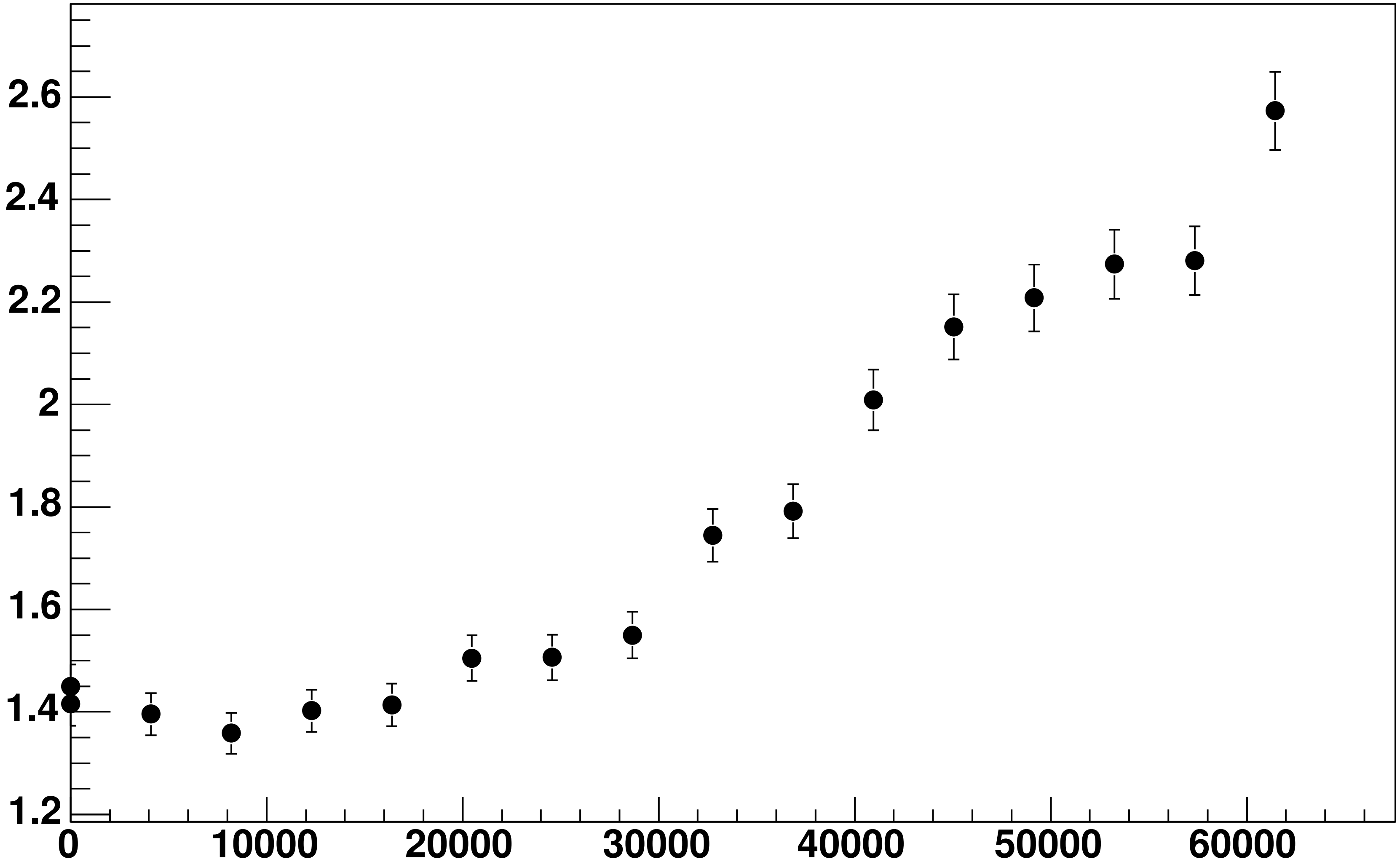
FE6, Chip 3, ADC mean vs DAC1
χ^2 / ndf 51.93 / 11
p0 25.63 ± 0.03953
p1 -3.651e-07 ± 1.094e-06
26
25.9
25.8
25.7
25.6
25.5
25.4
0
10000
20000
30000
40000
50000
60000

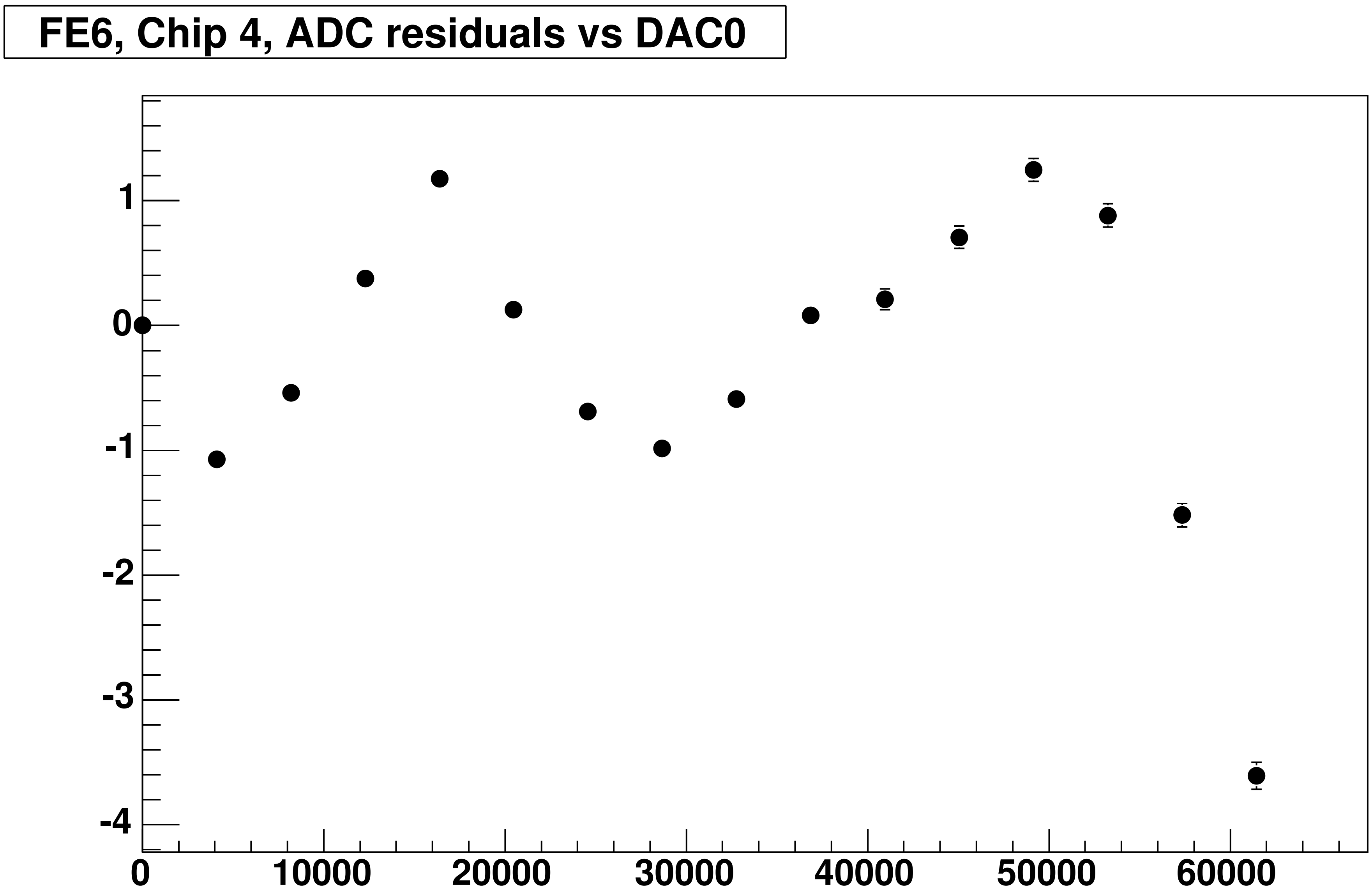

FE6, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

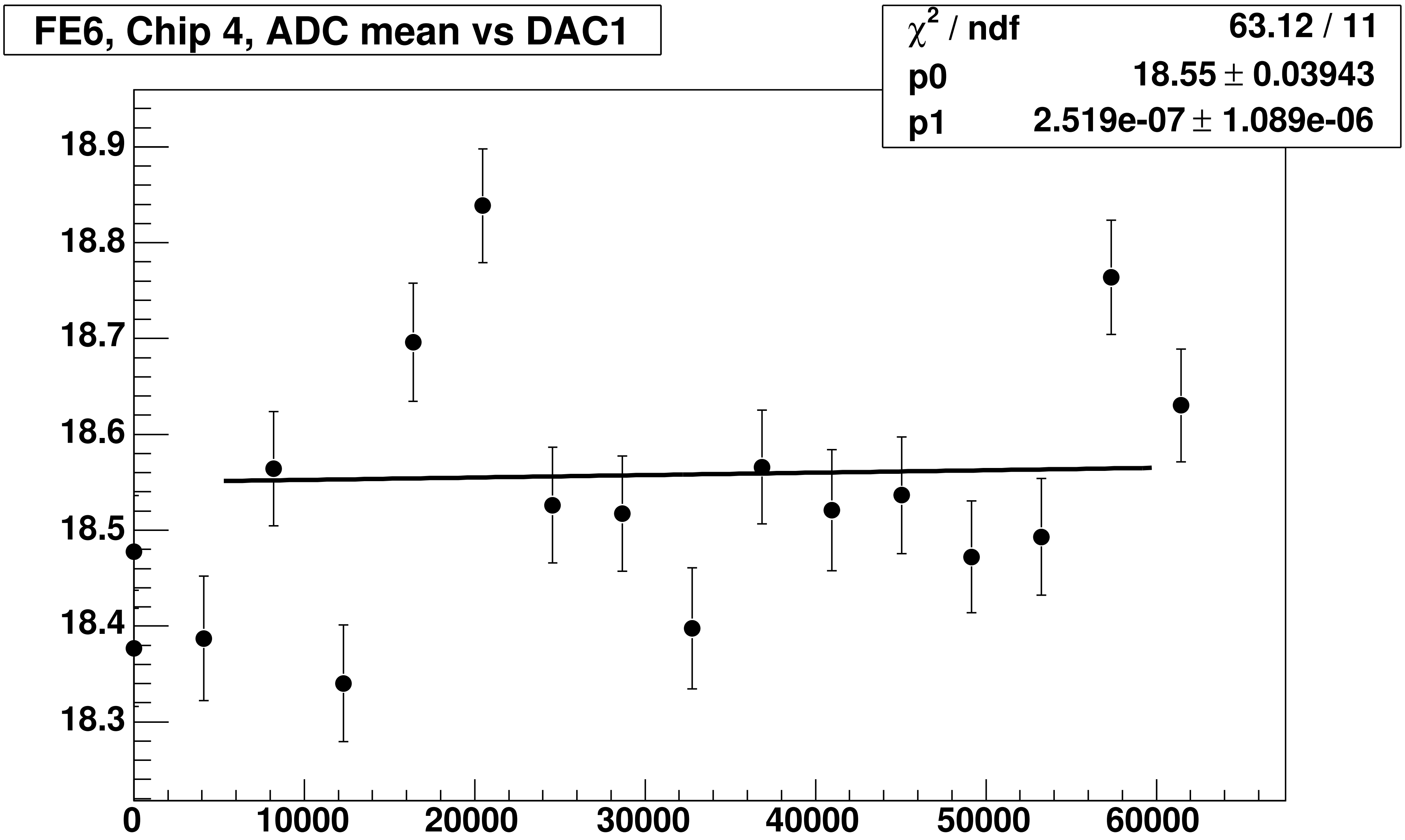

FE6, Chip 3, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

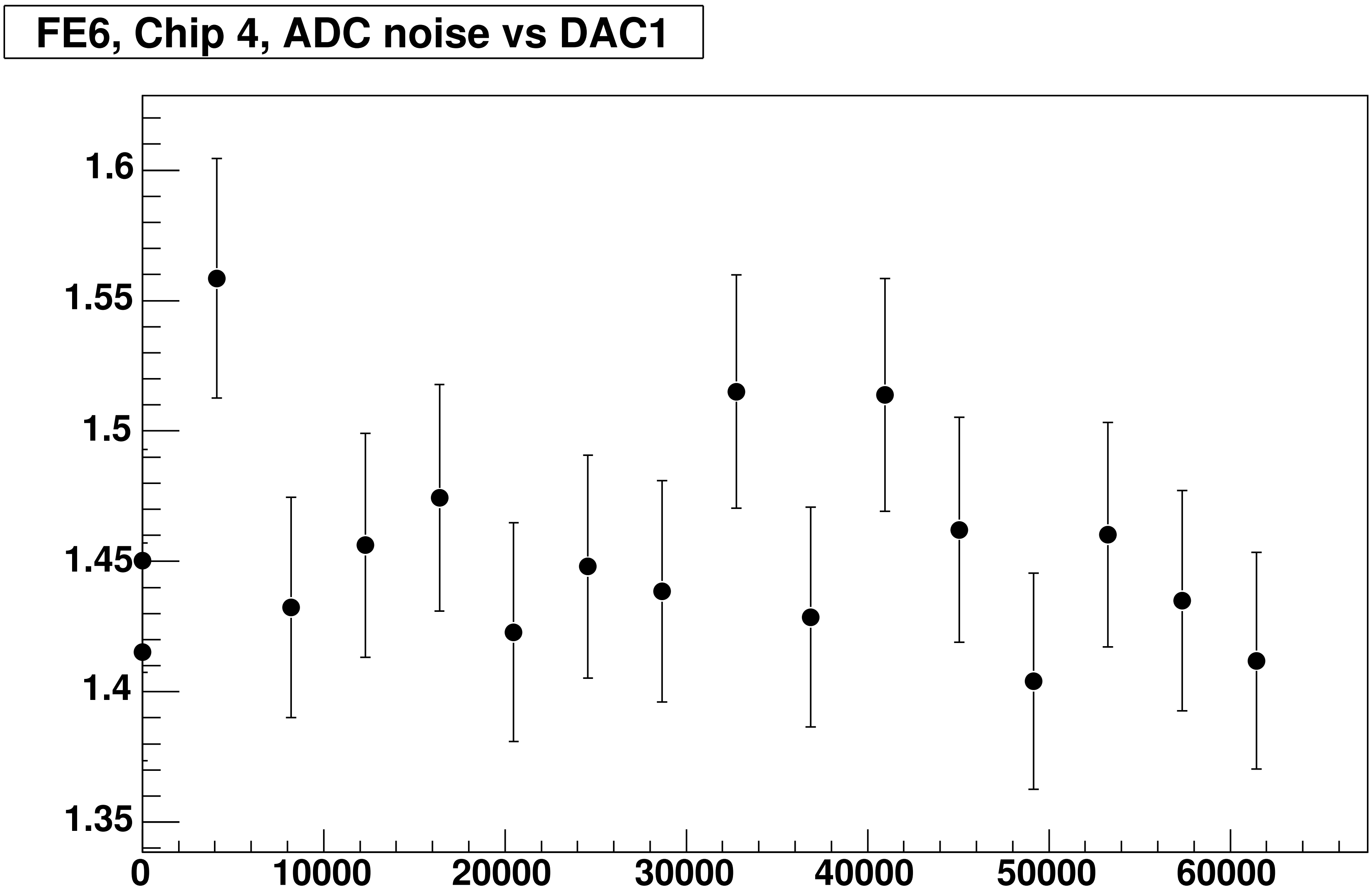

FE6, Chip 4, ADC mean vs DAC0
χ2 / ndf 1549 / 11
p0 20.73 ± 0.0418
p1 0.4524 ± 1.351e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

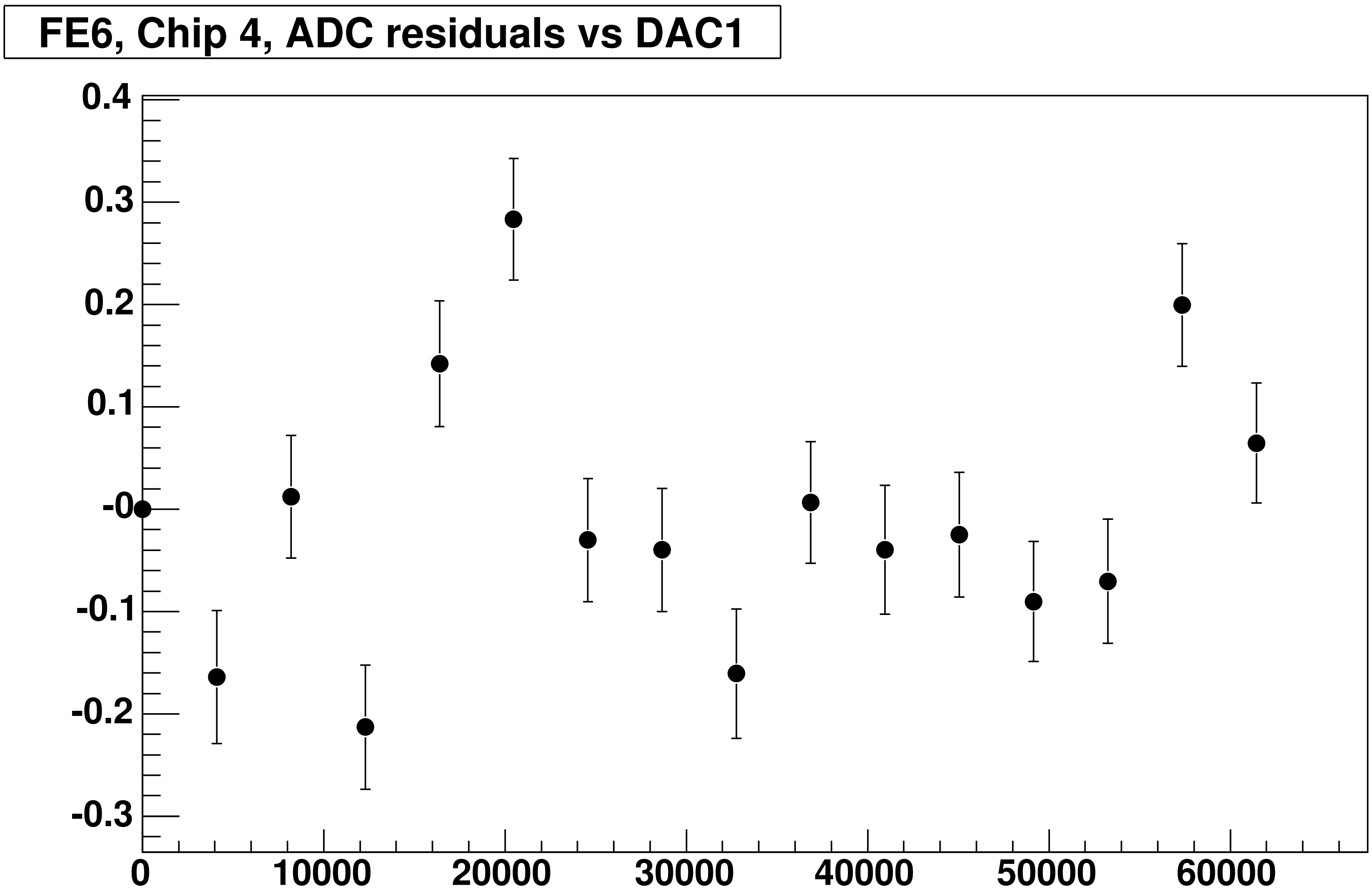
FE6, Chip 4, ADC noise vs DAC0

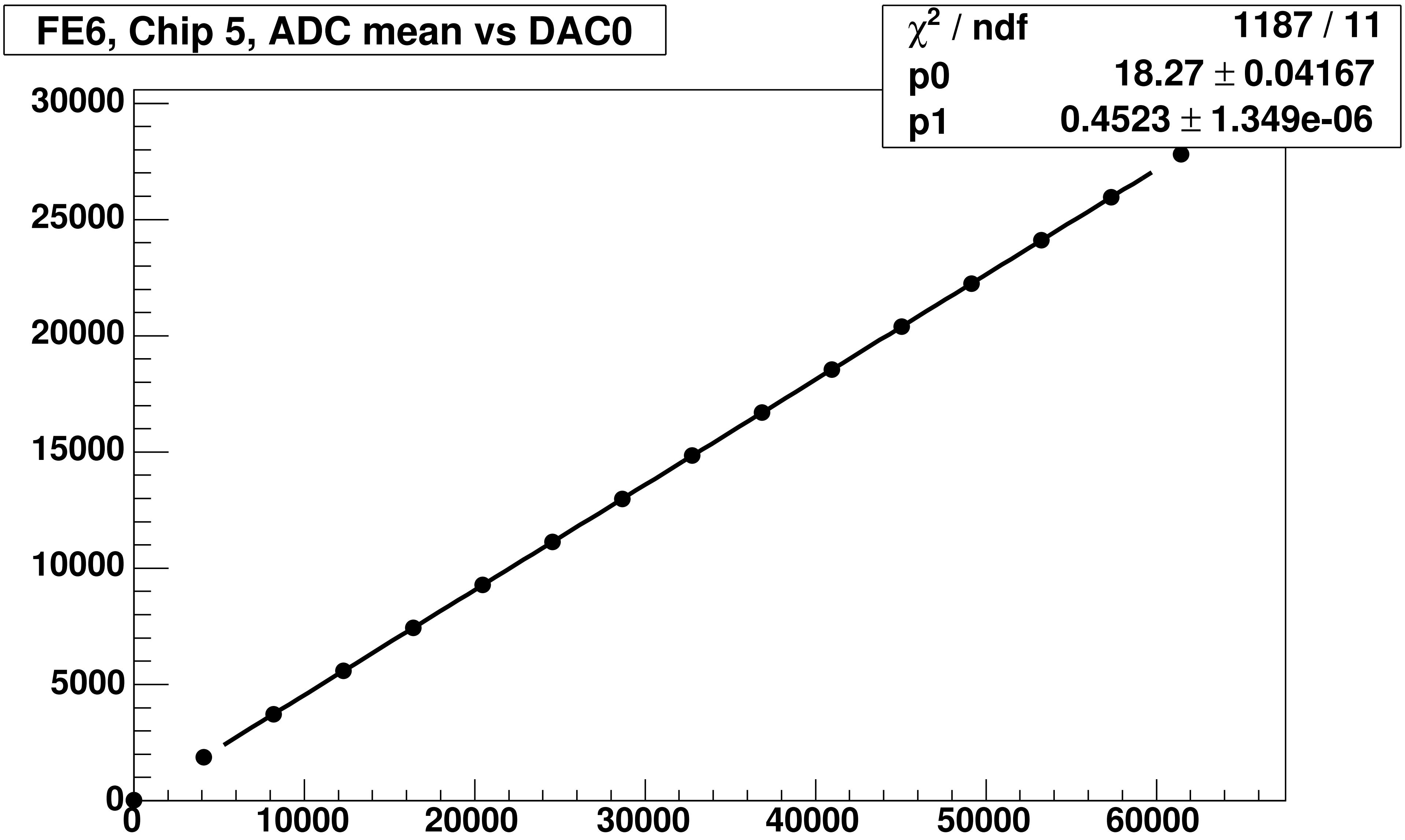


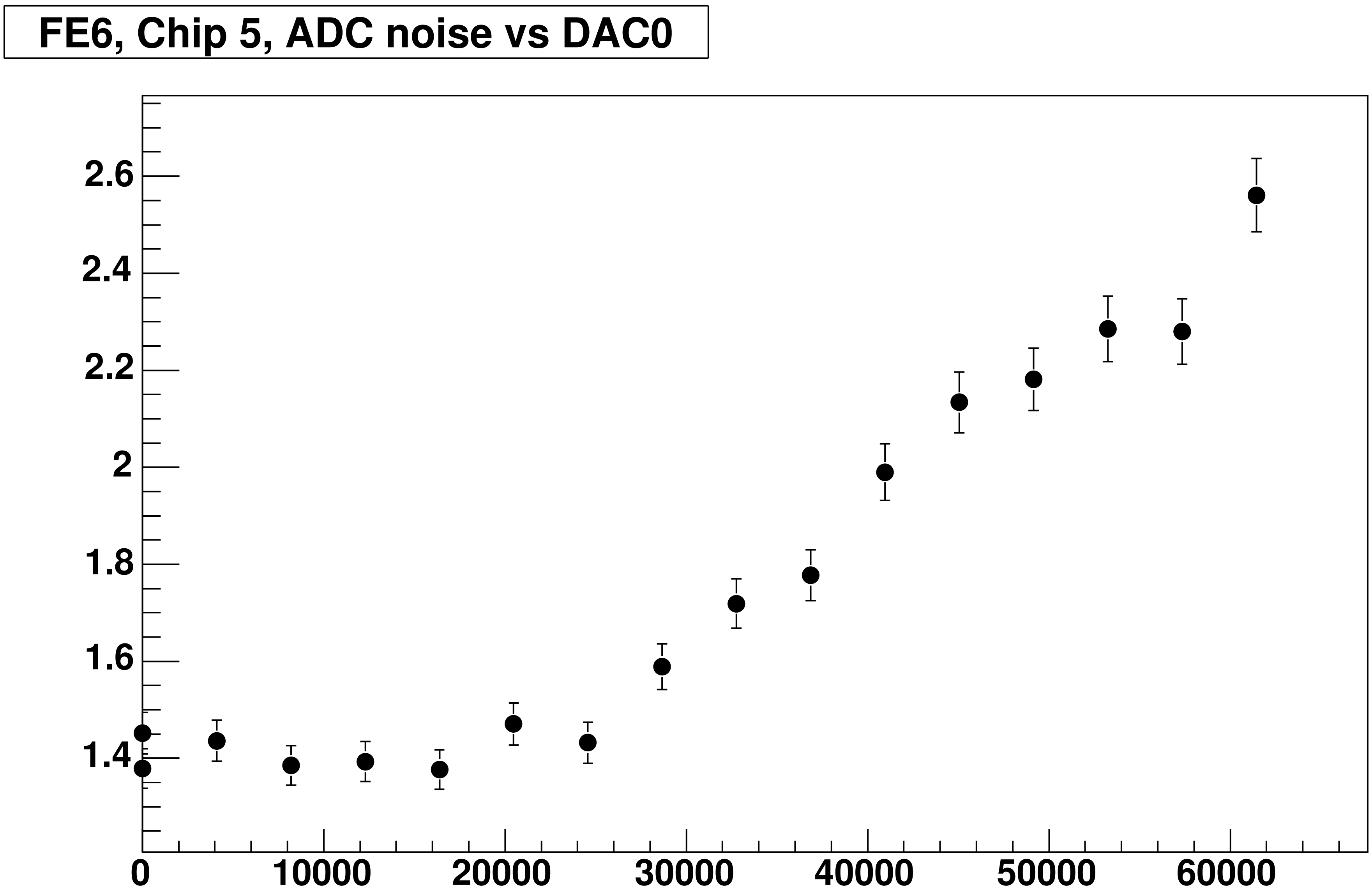

FE6, Chip 4, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

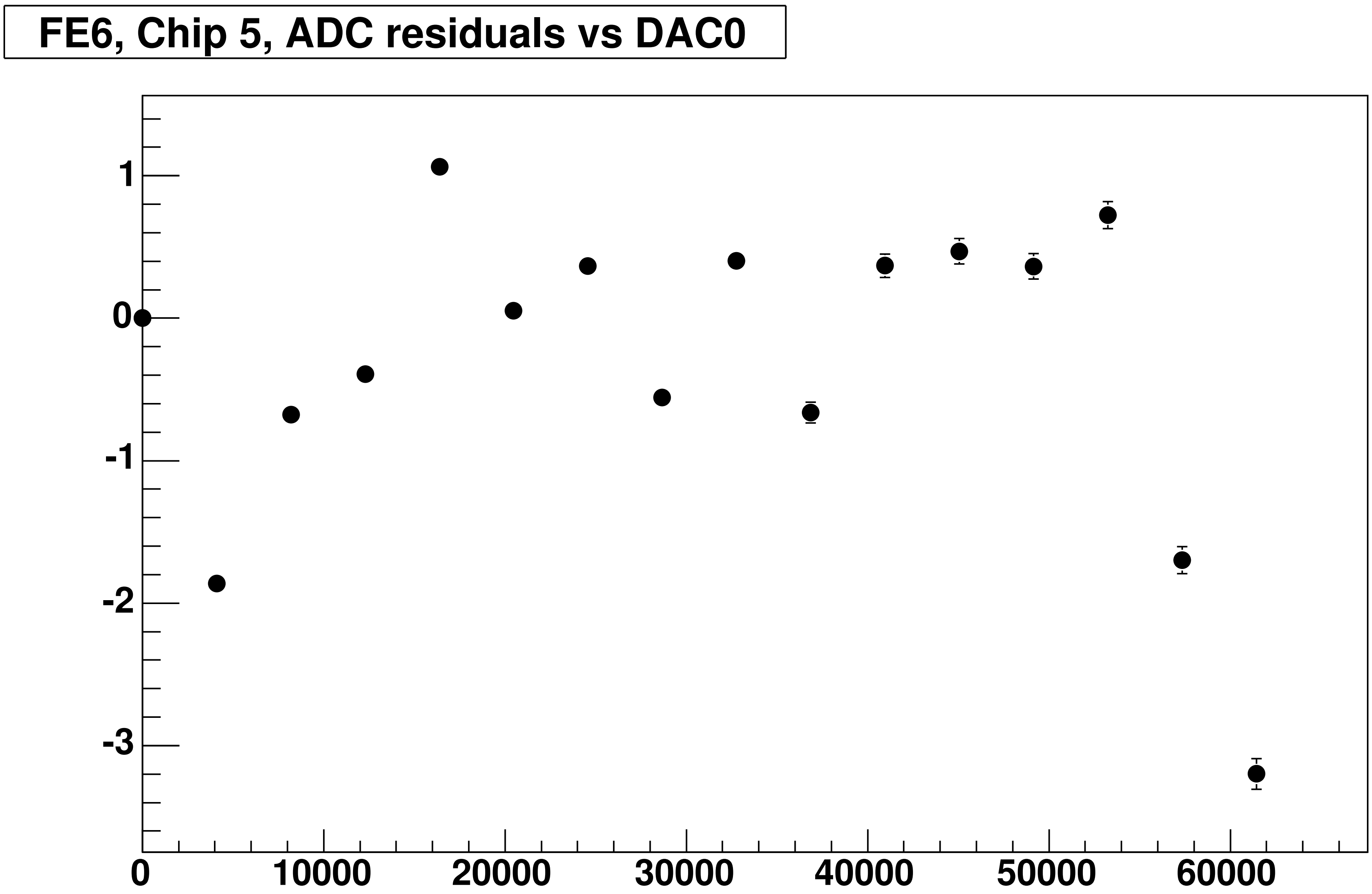

FE6, Chip 4, ADC mean vs DAC1
χ² / ndf 63.12 / 11
p0 18.55 ± 0.03943
p1 2.519e-07 ± 1.089e-06
18.3
18.4
18.5
18.6
18.7
18.8
18.9
0
10000
20000
30000
40000
50000
60000

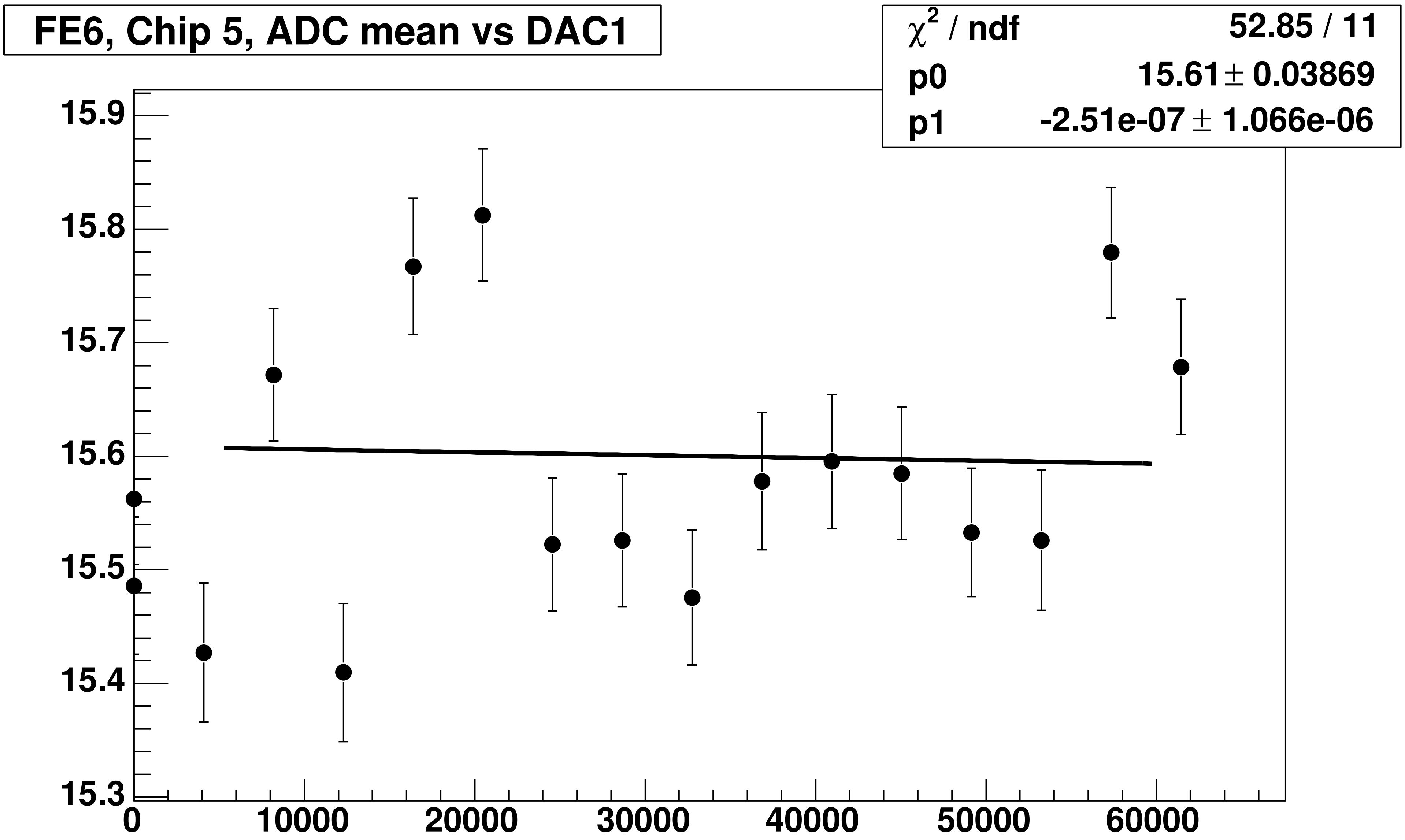

FE6, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE6, Chip 4, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

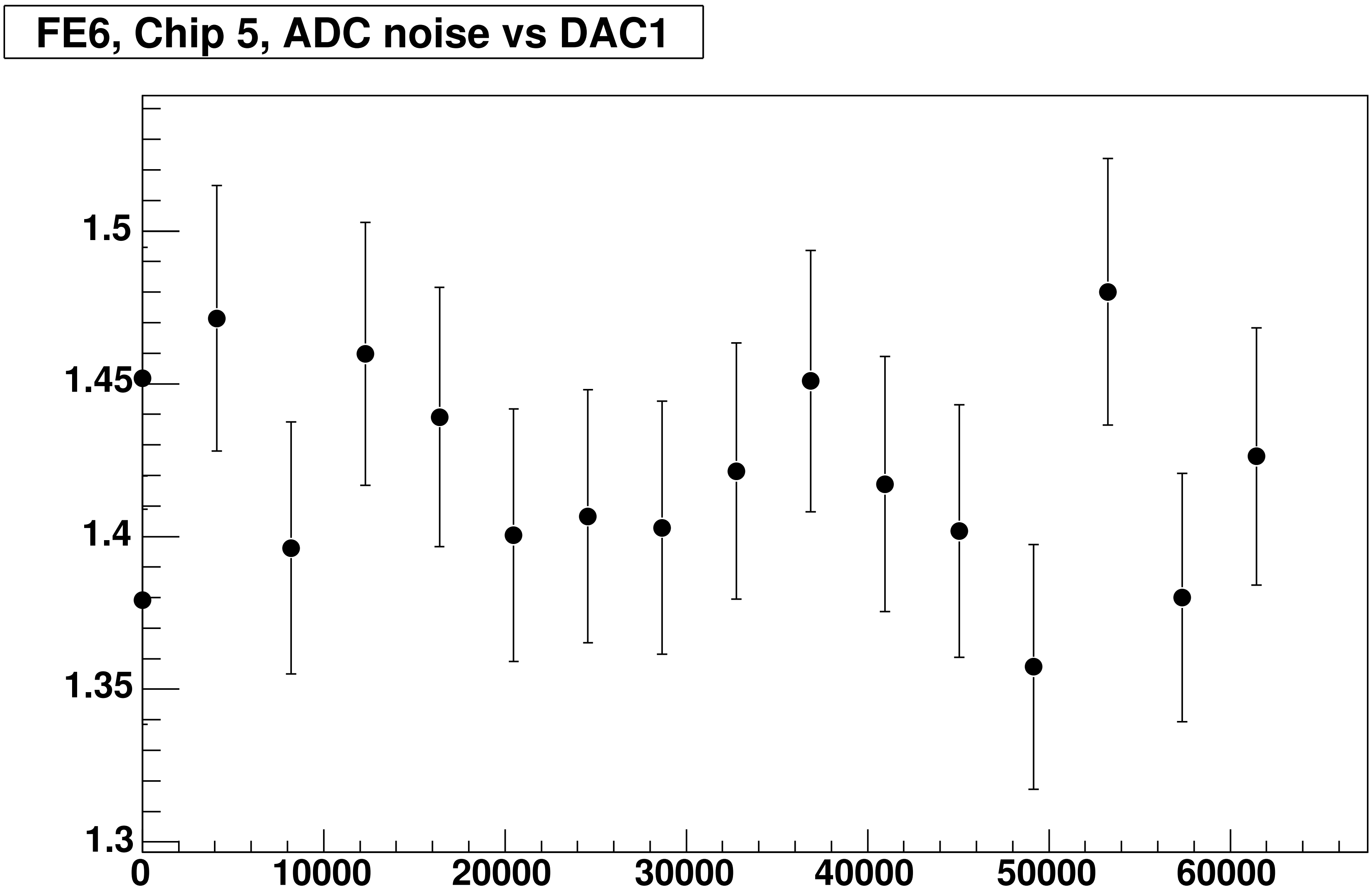

FE6, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1187 / 11
p0 18.27 ± 0.04167
p1 0.4523 ± 1.349e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

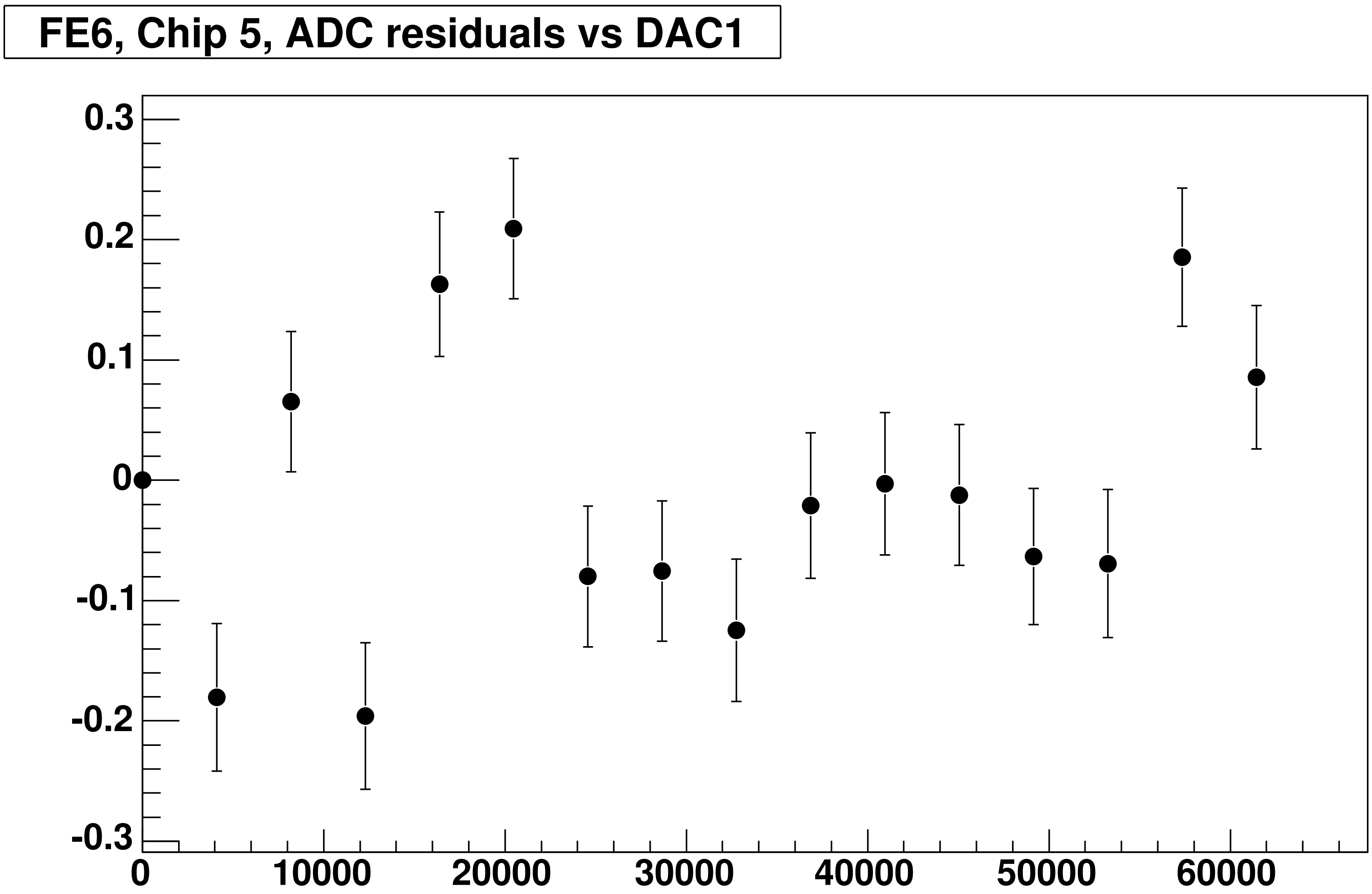

FE6, Chip 5, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

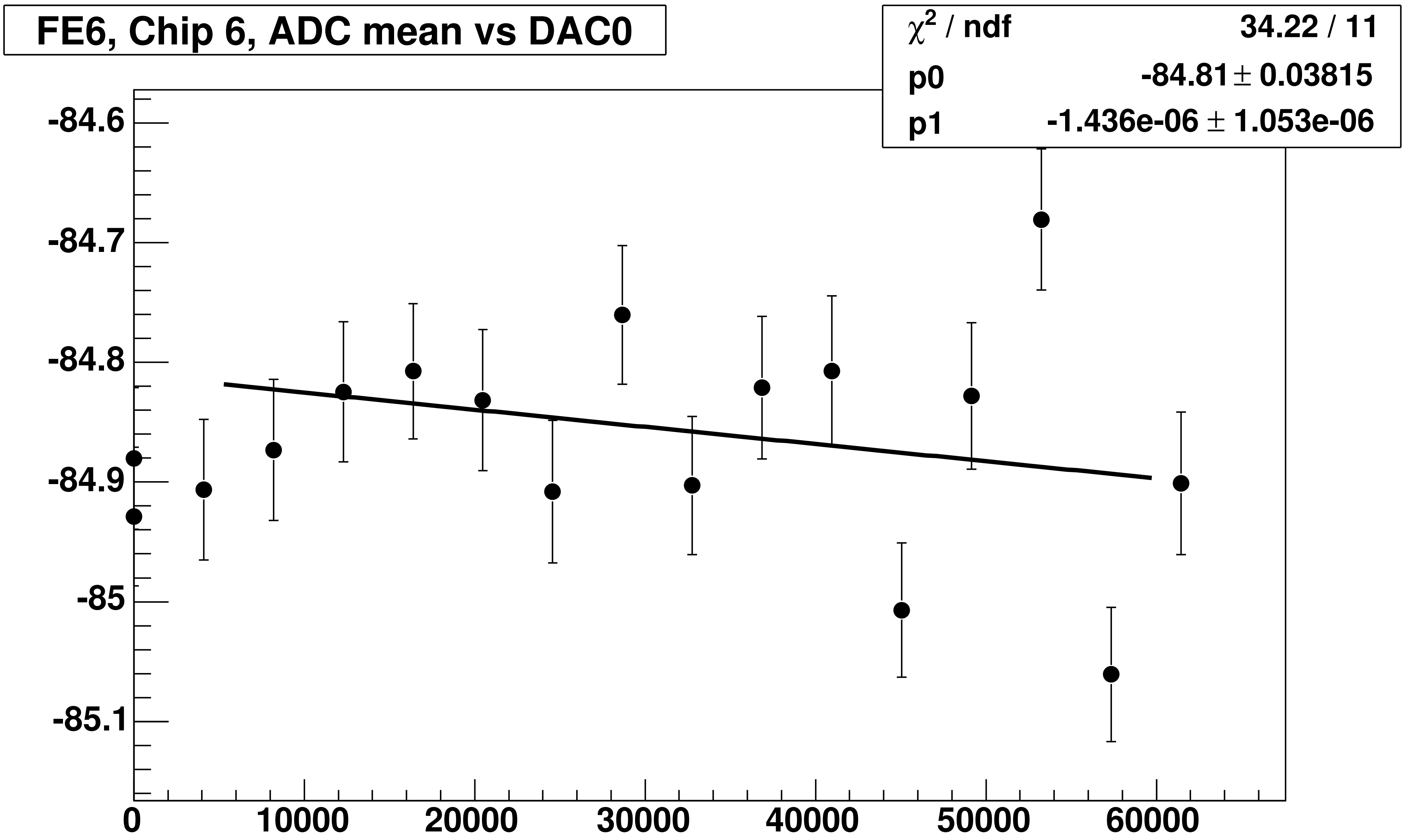

FE6, Chip 5, ADC residuals vs DAC0
1
0
-1
-2
-3
0
10000
20000
30000
40000
50000
60000

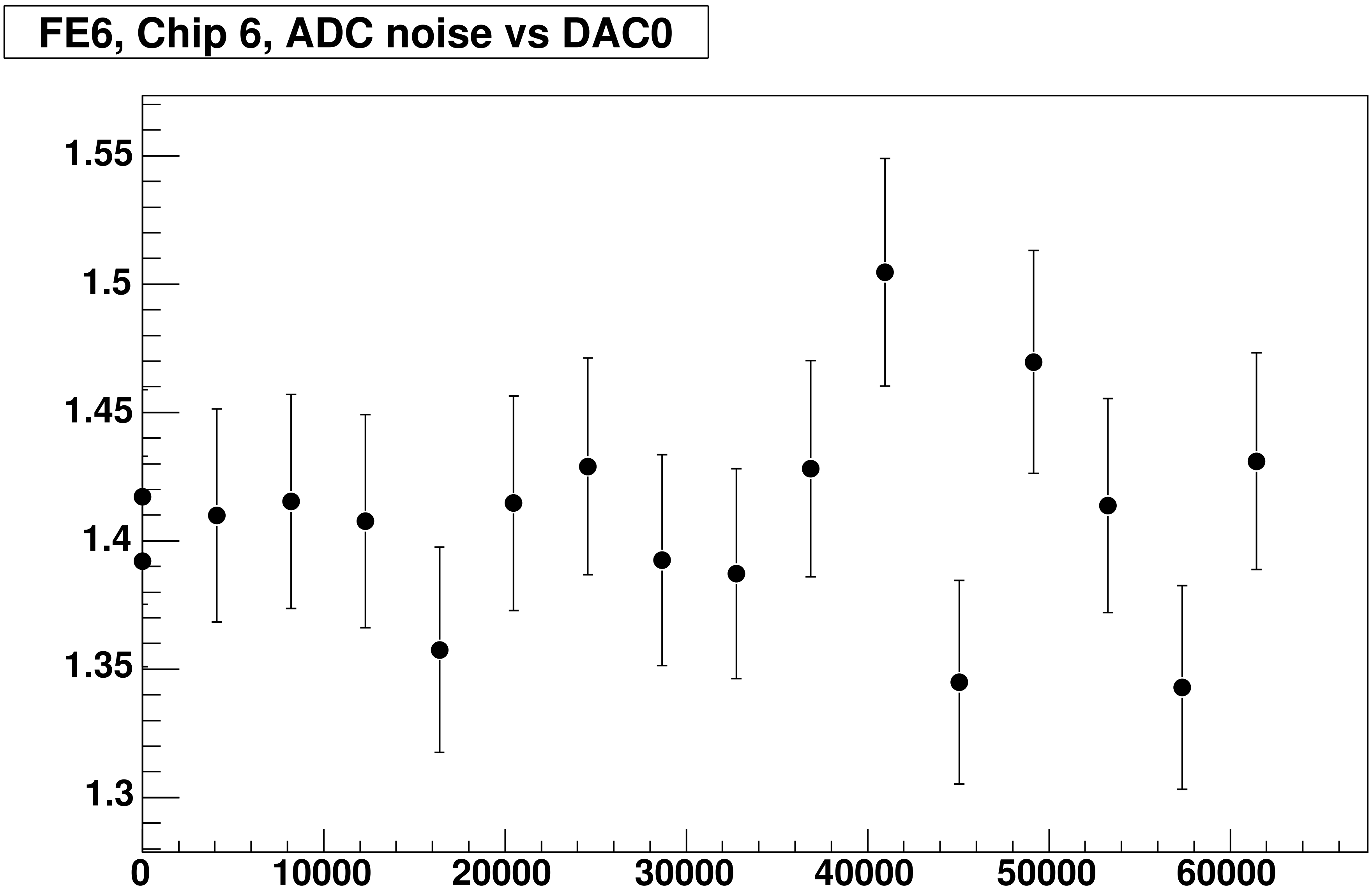


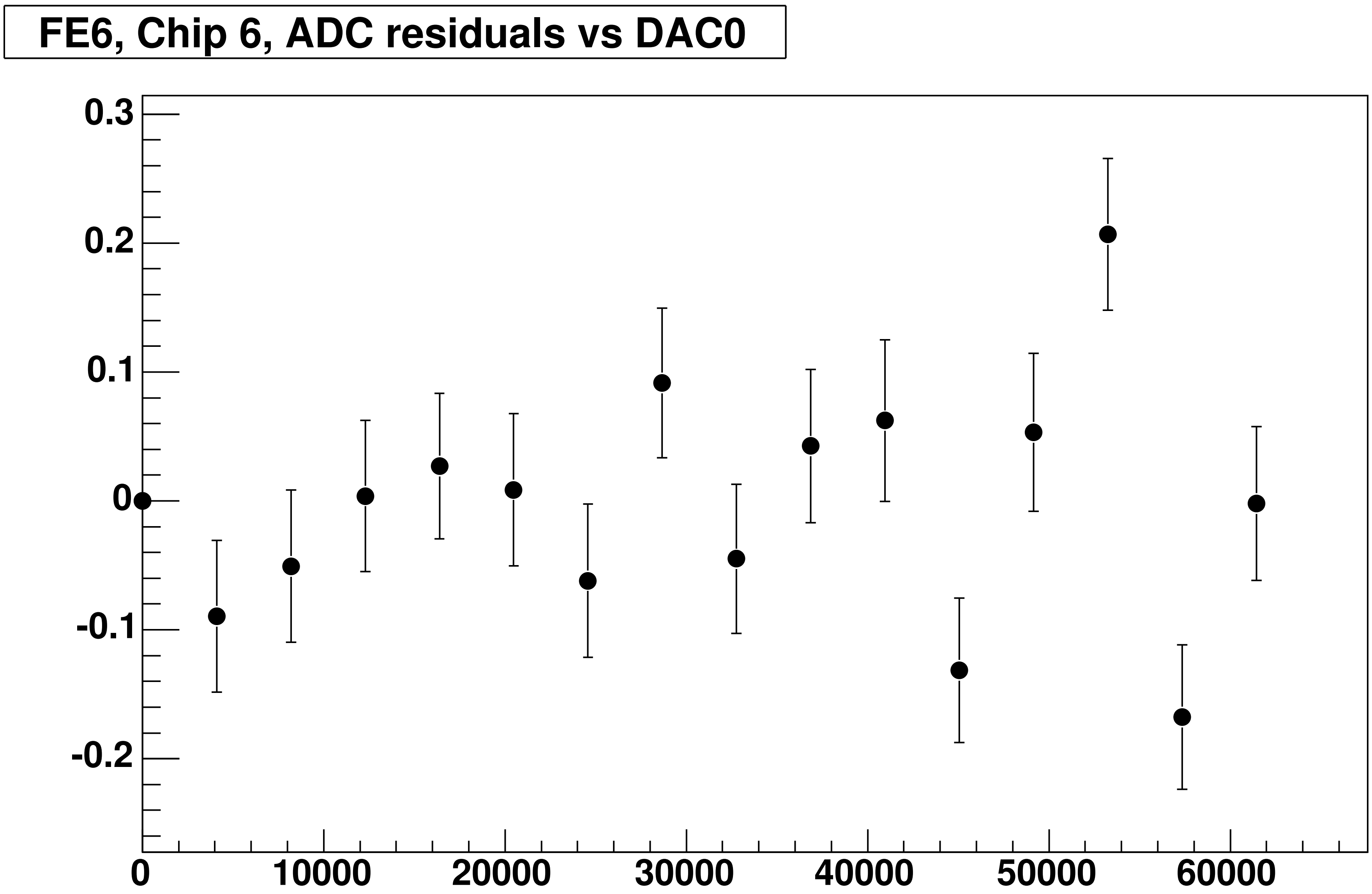
FE6, Chip 5, ADC mean vs DAC1
χ^2 / ndf 52.85 / 11
p0 15.61 ± 0.03869
p1 -2.51e-07 ± 1.066e-06
15.3
15.4
15.5
15.6
15.7
15.8
15.9
0
10000
20000
30000
40000
50000
60000

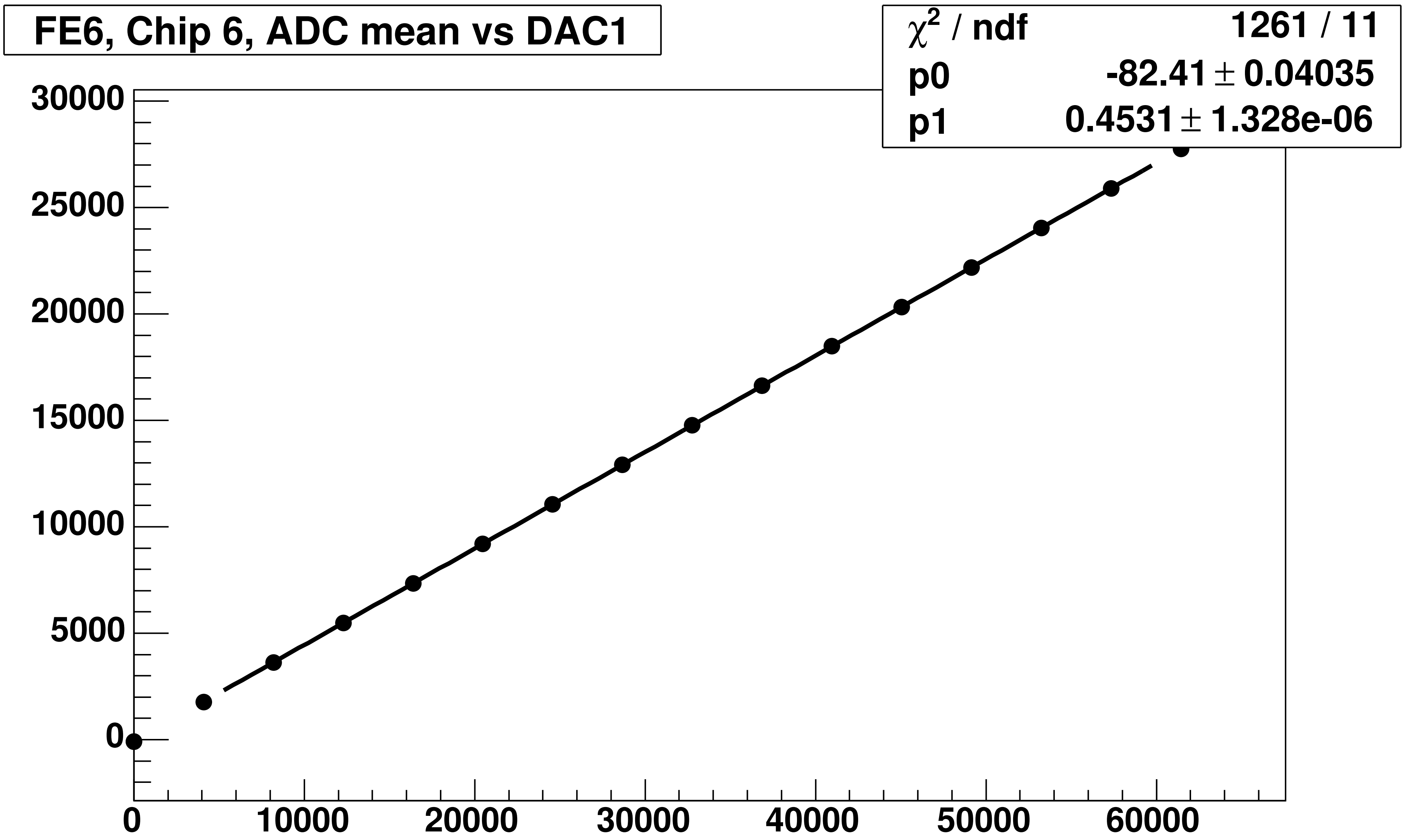

FE6, Chip 5, ADC noise vs DAC1
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


FE6, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

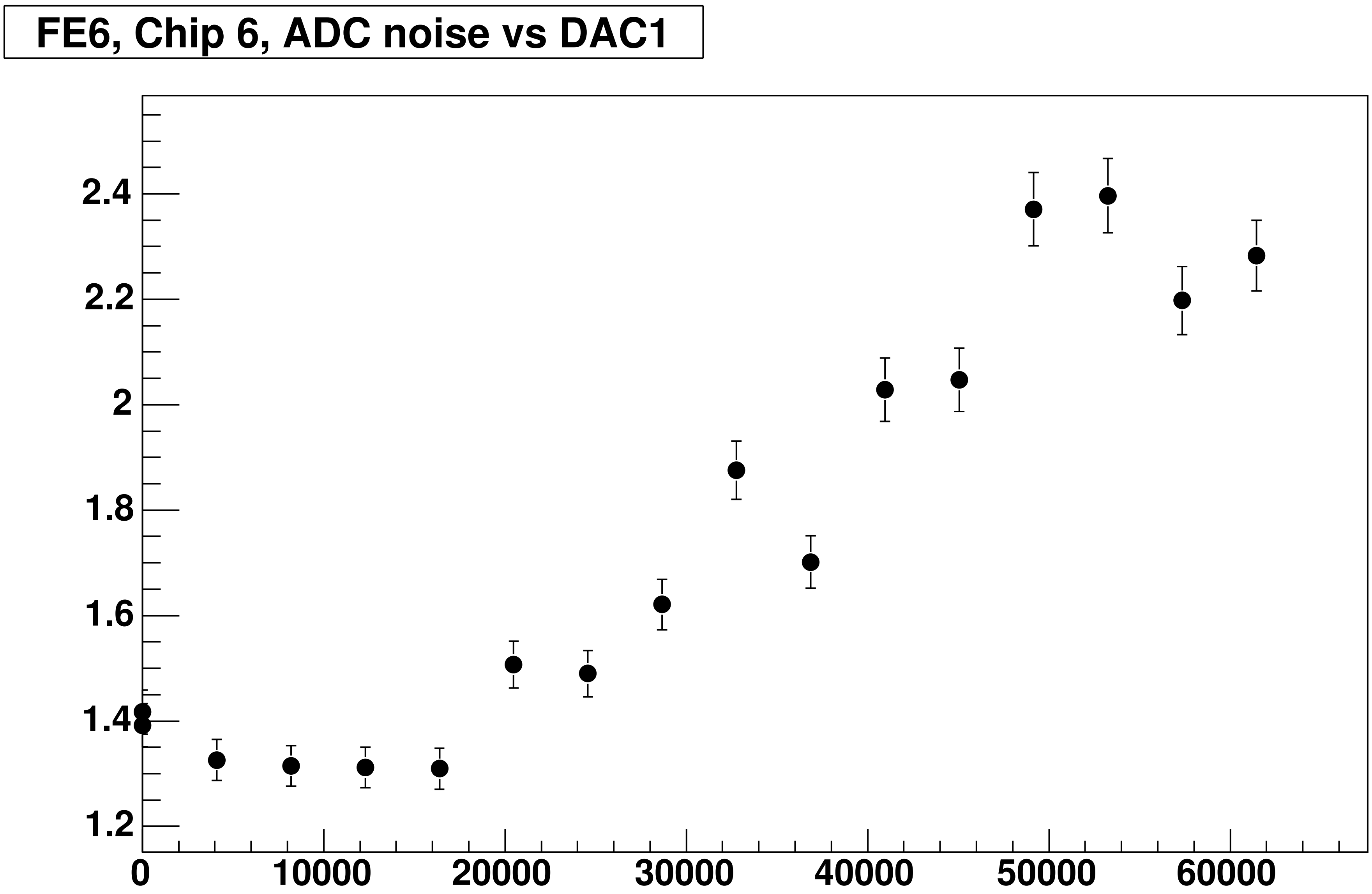

FE6, Chip 6, ADC mean vs DAC0
χ^2 / ndf 34.22 / 11
p0 -84.81 ± 0.03815
p1 -1.436e-06 ± 1.053e-06
-84.6
-84.7
-84.8
-84.9
-85
-85.1
0
10000
20000
30000
40000
50000
60000


FE6, Chip 6, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

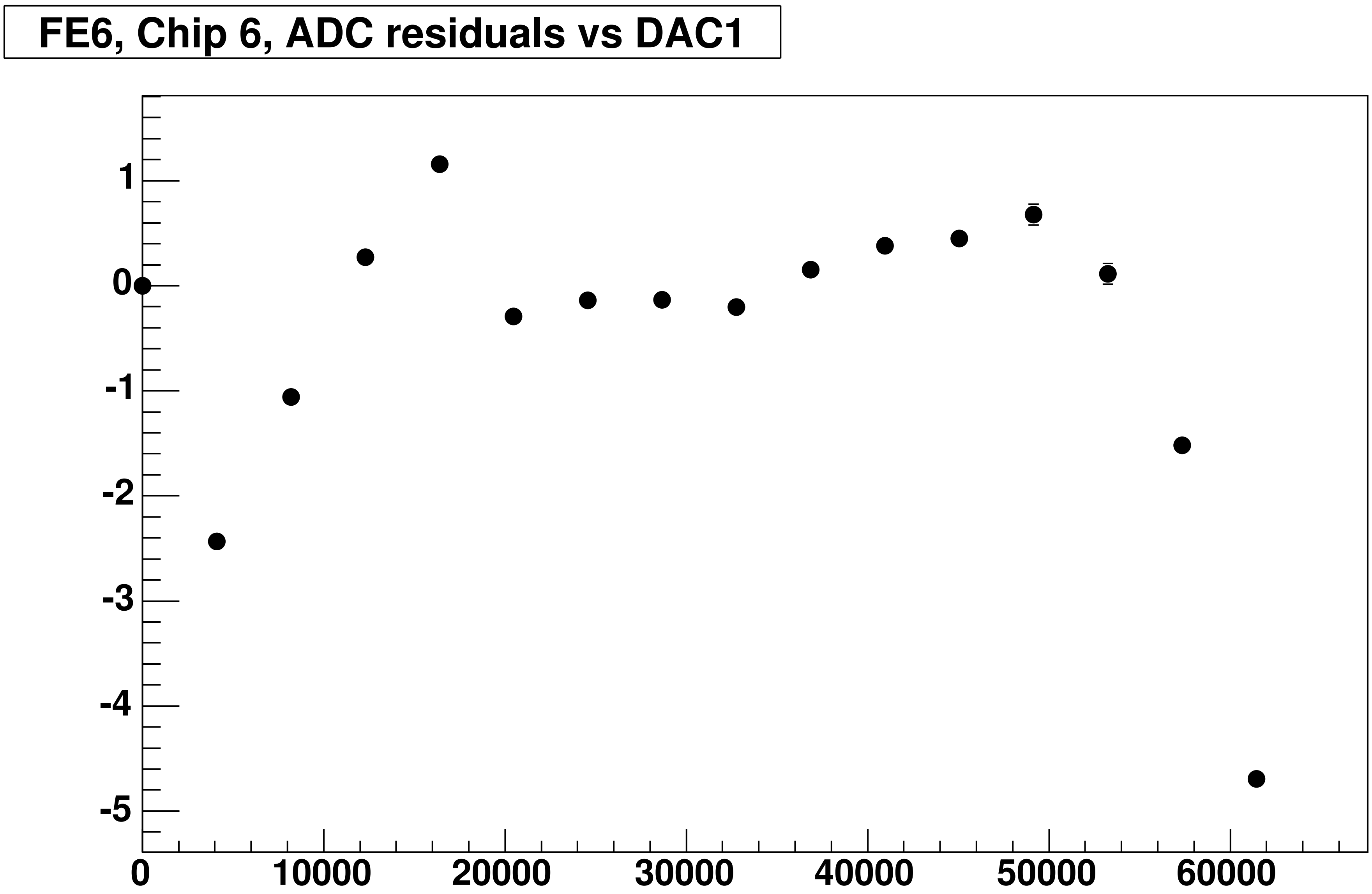

FE6, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



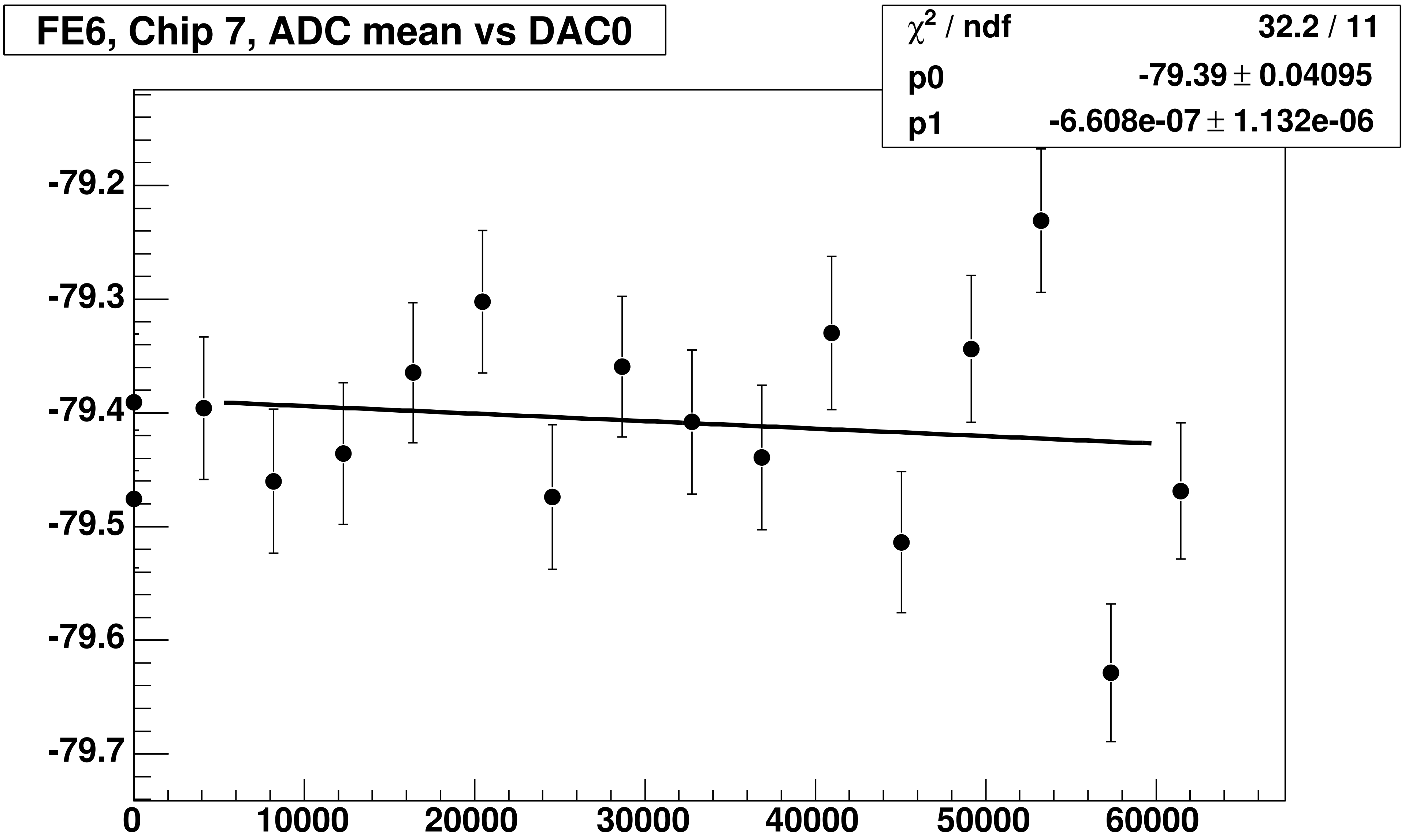
FE6, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1261 / 11
p0 -82.41 ± 0.04035
p1 0.4531 ± 1.328e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

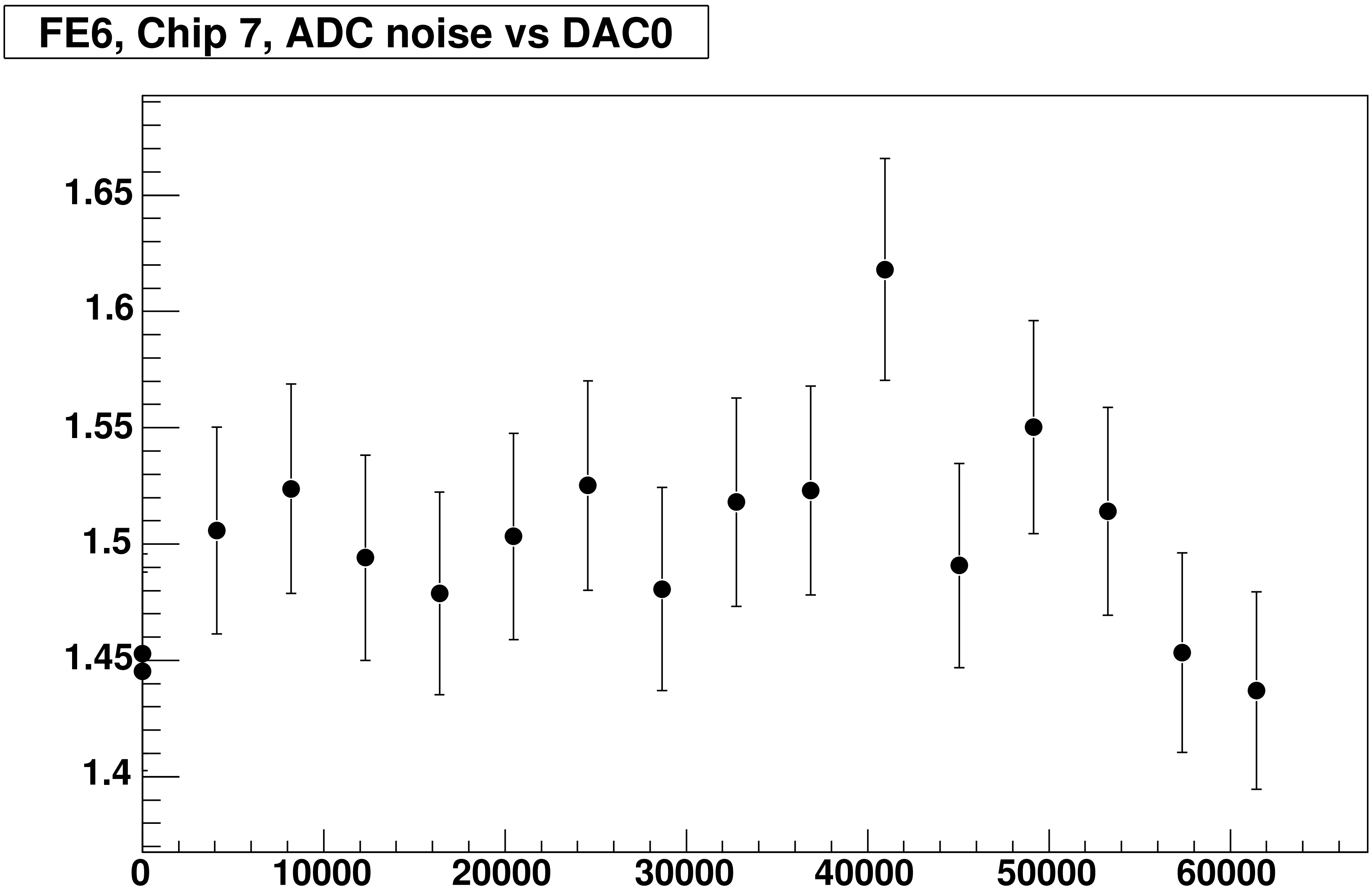


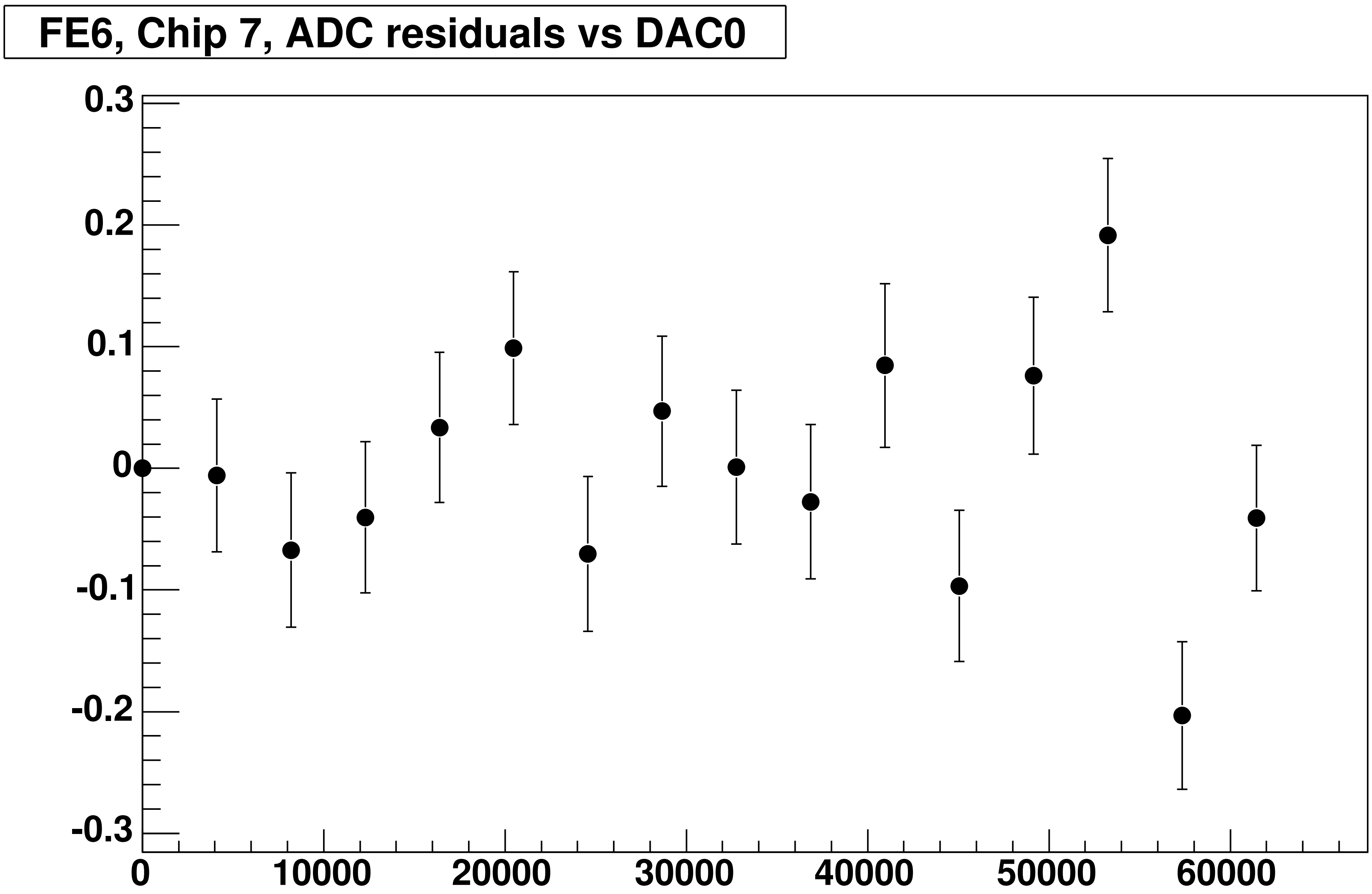
FE6, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



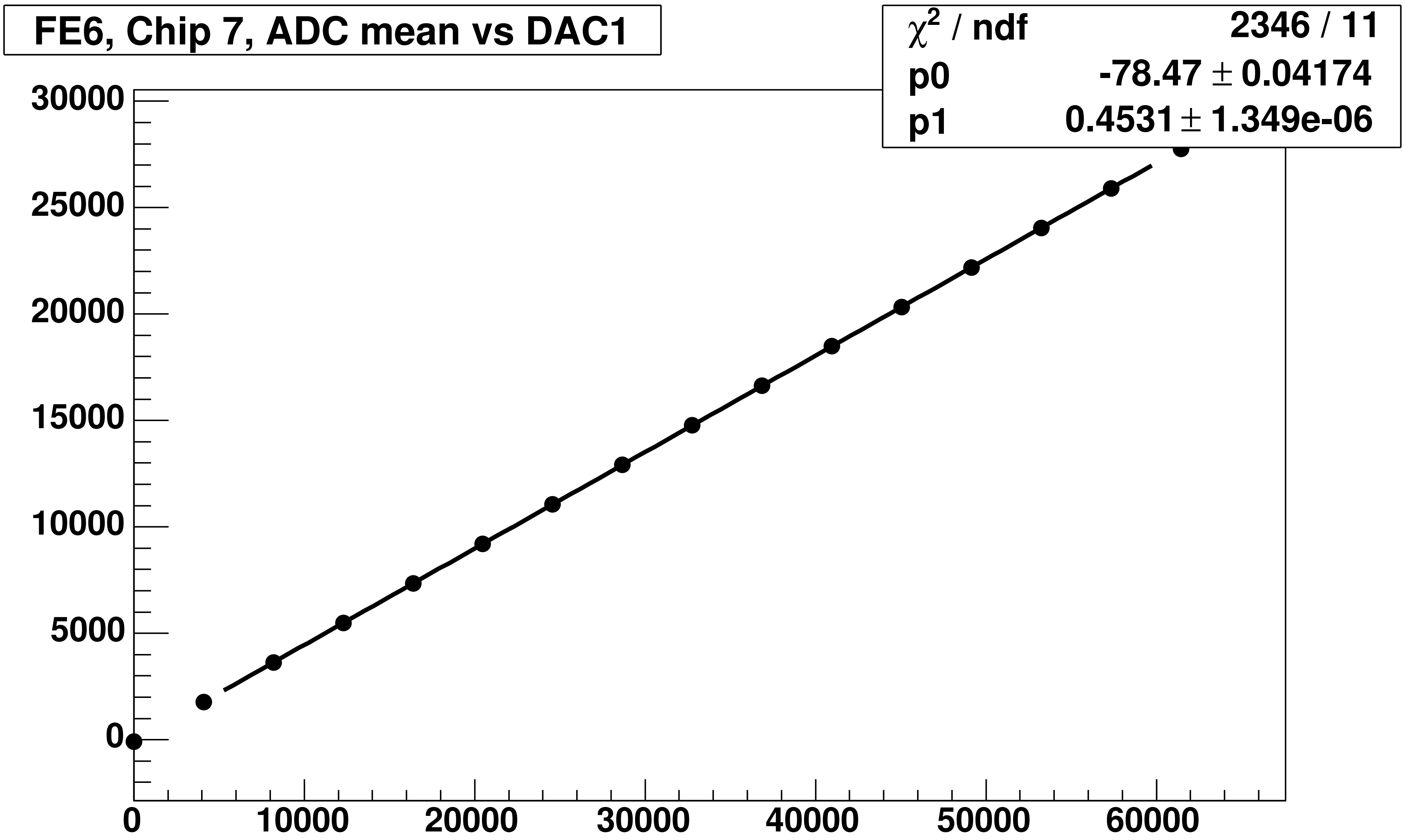
FE6, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

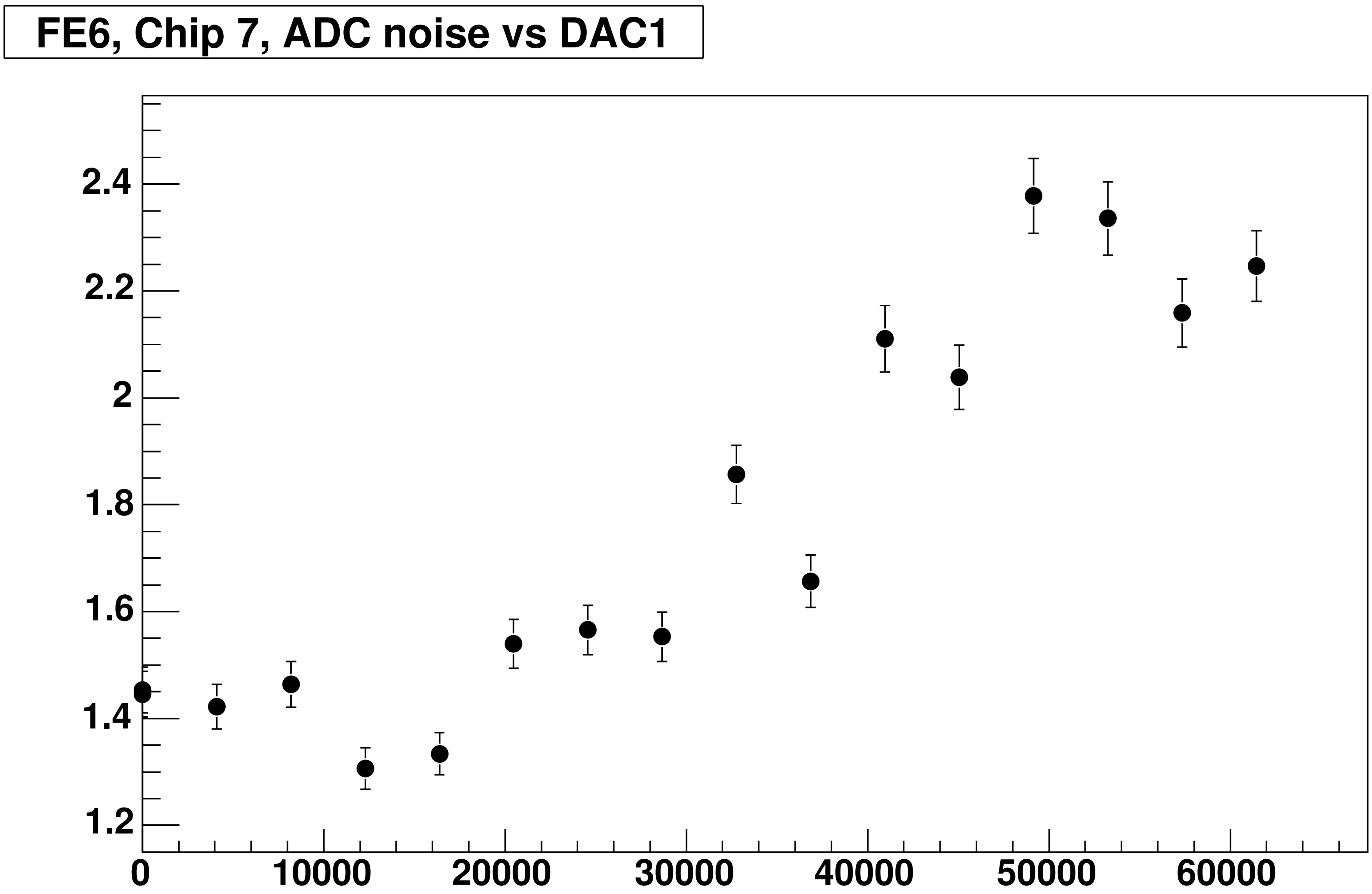

FE6, Chip 7, ADC mean vs DAC0
χ^2 / ndf 32.2 / 11
p0 -79.39 ± 0.04095
p1 -6.608e-07 ± 1.132e-06
-79.2
-79.3
-79.4
-79.5
-79.6
-79.7
0
10000
20000
30000
40000
50000
60000

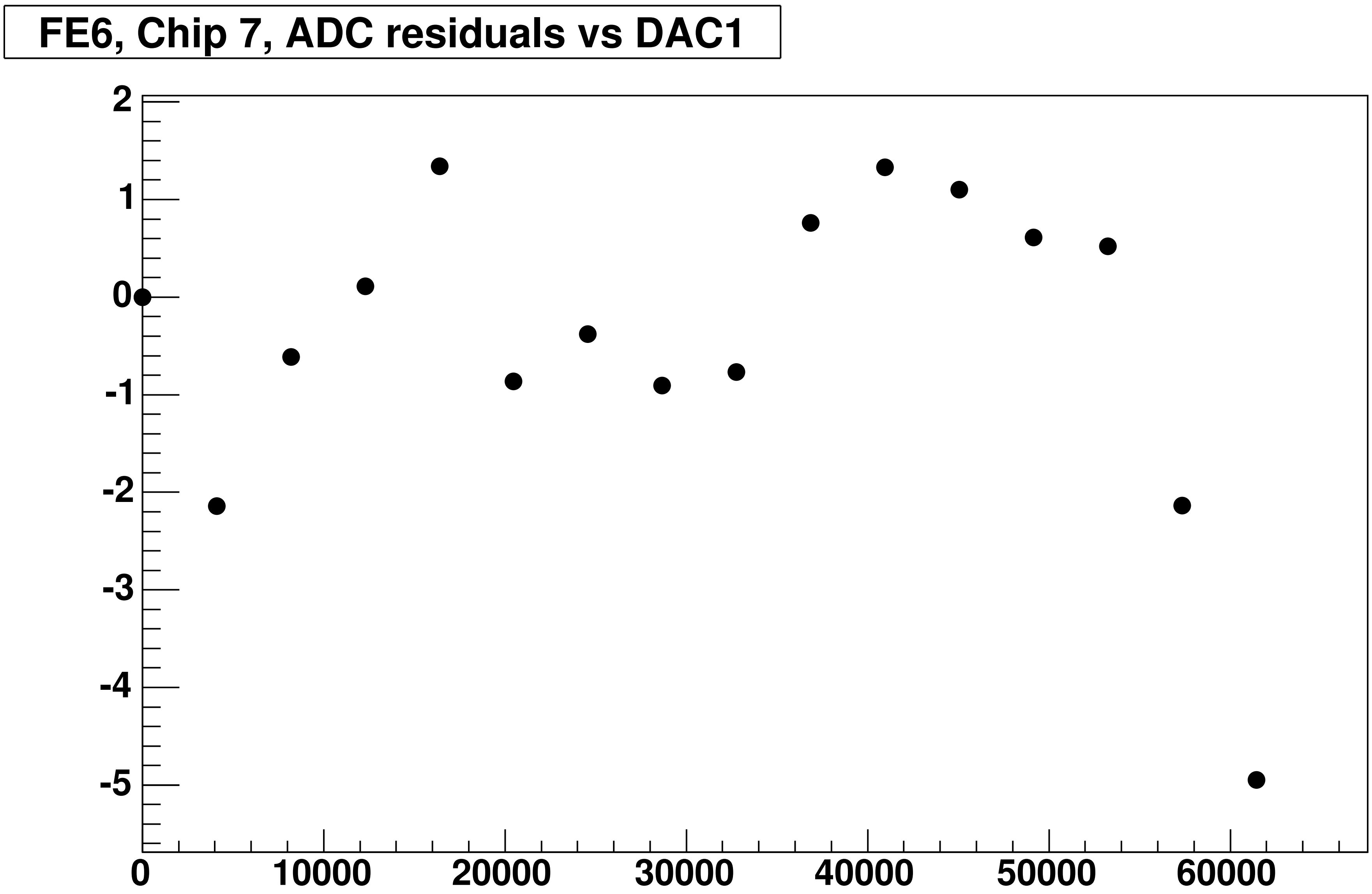

FE6, Chip 7, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000



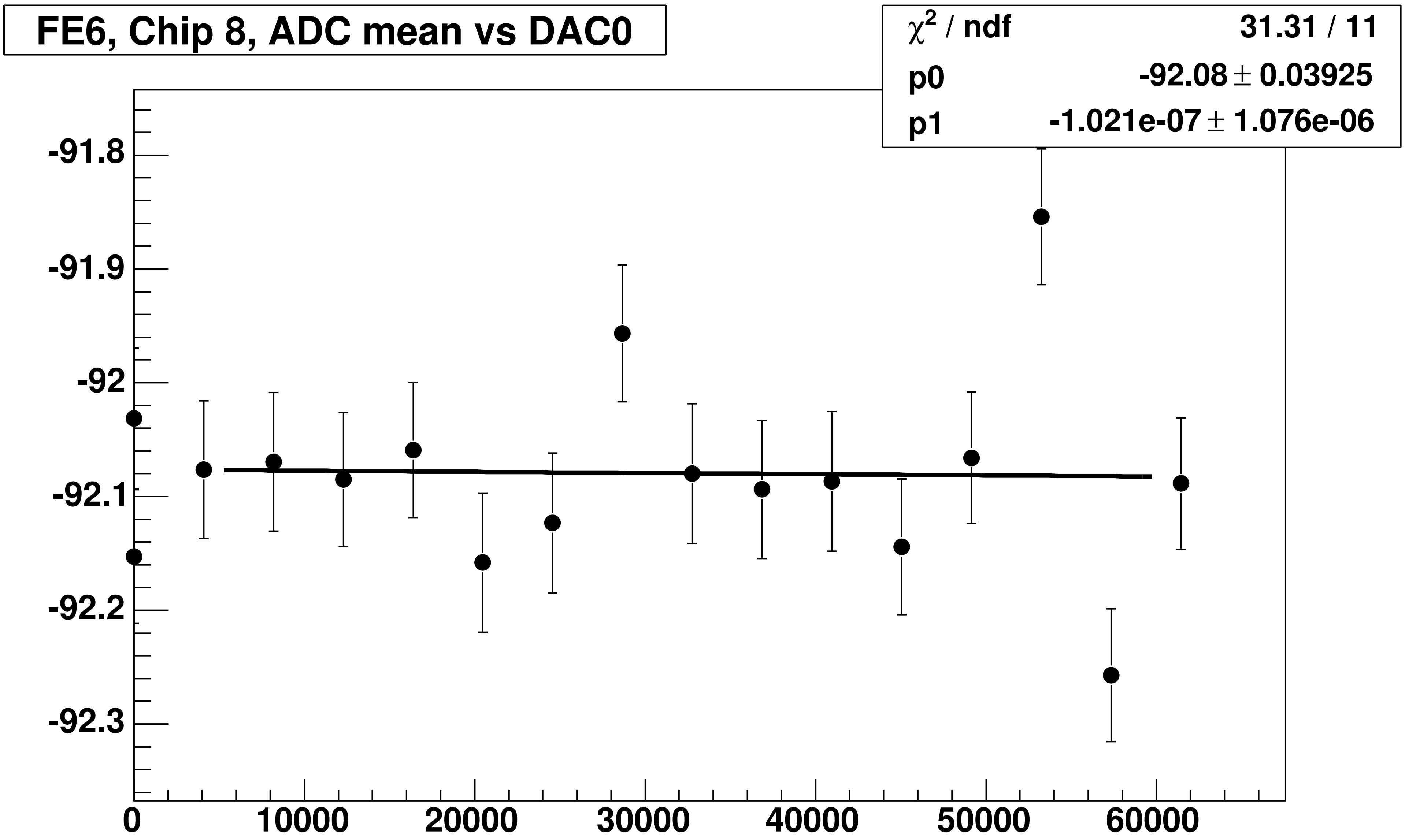
FE6, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE6, Chip 7, ADC mean vs DAC1
χ² / ndf 2346 / 11
p0 -78.47 ± 0.04174
p1 0.4531 ± 1.349e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

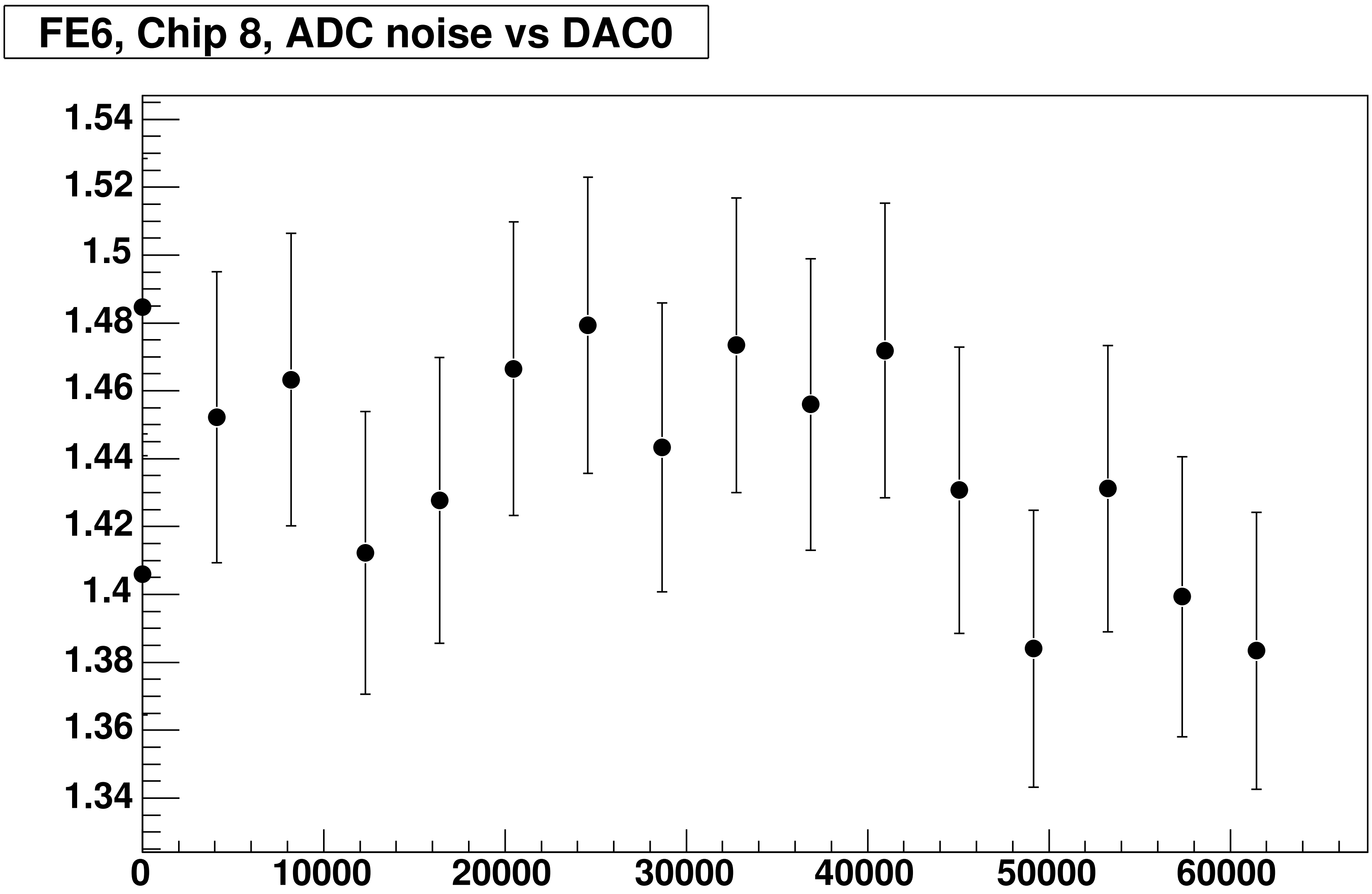

FE6, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



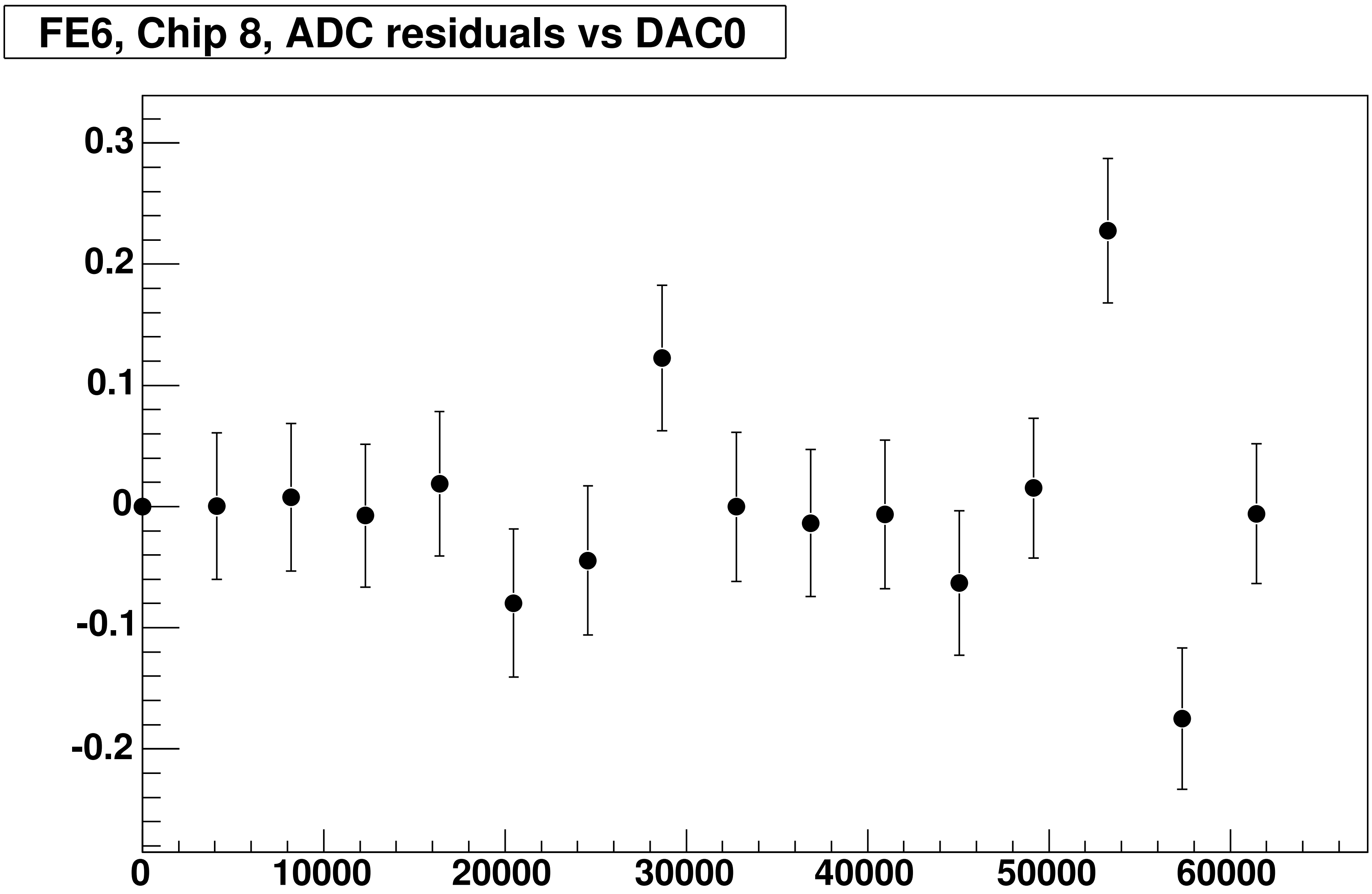
FE6, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

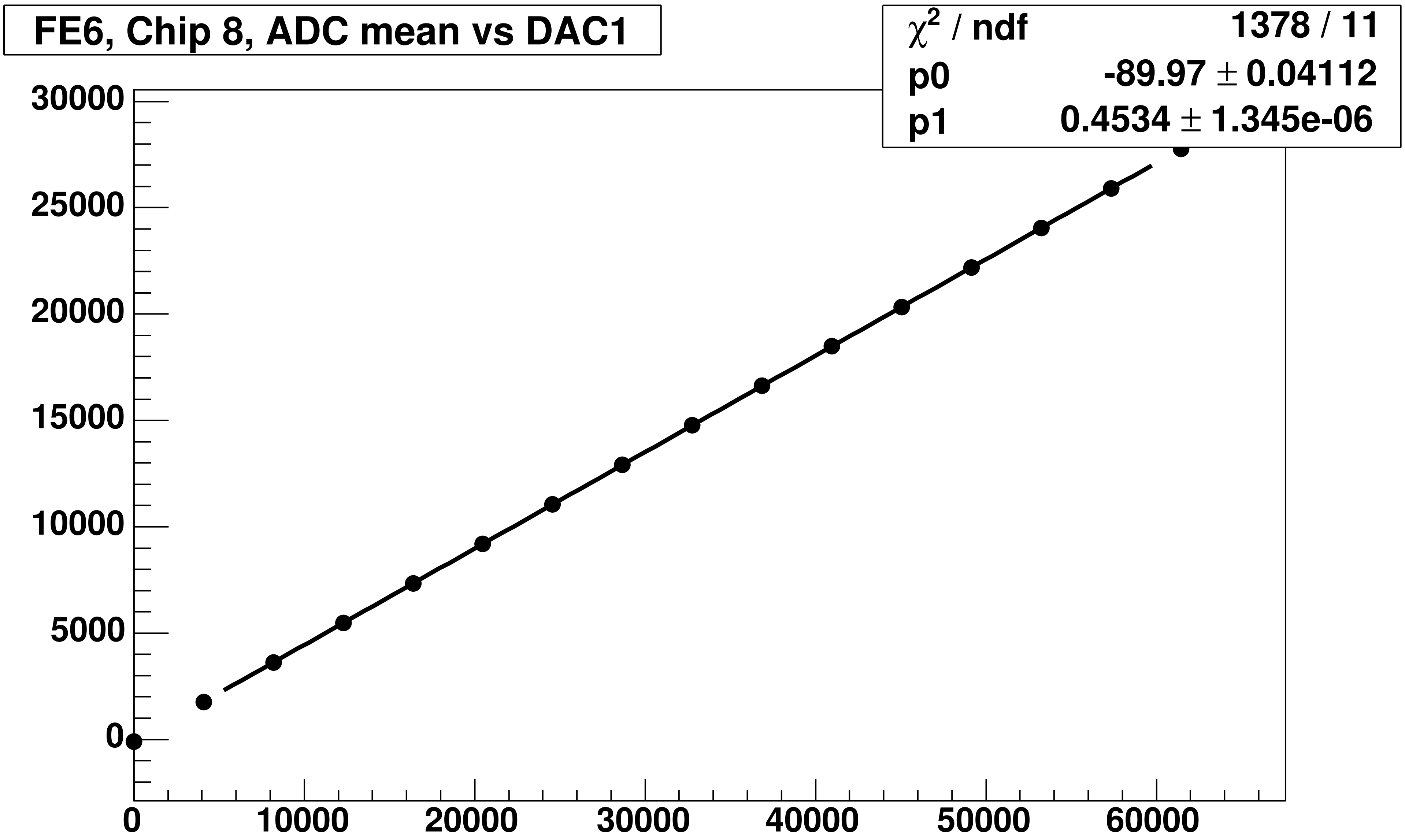


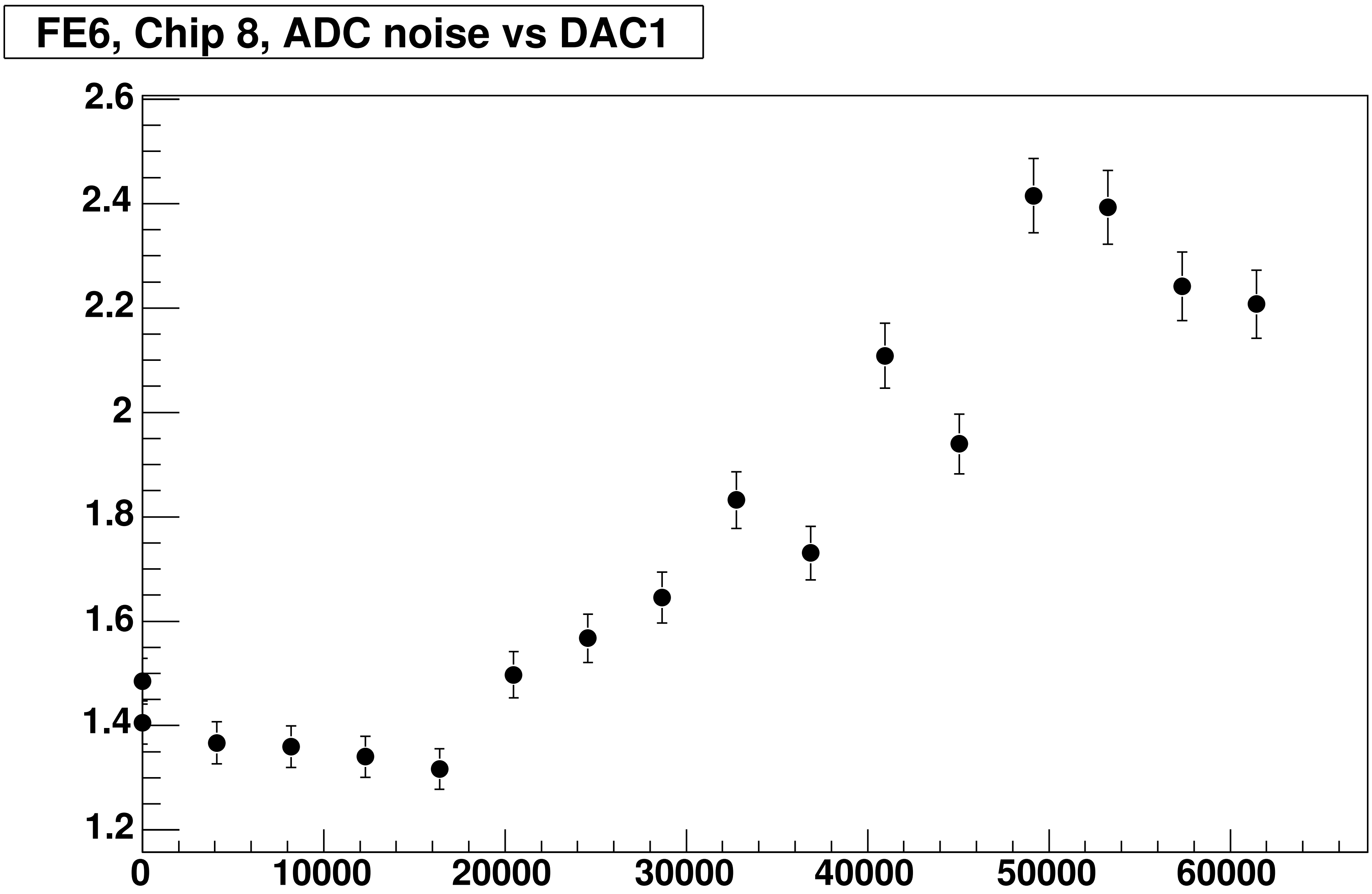
FE6, Chip 8, ADC mean vs DAC0
χ^2 / ndf 31.31 / 11
p0 -92.08 ± 0.03925
p1 -1.021e-07 ± 1.076e-06
-91.8
-91.9
-92
-92.1
-92.2
-92.3
0
10000
20000
30000
40000
50000
60000

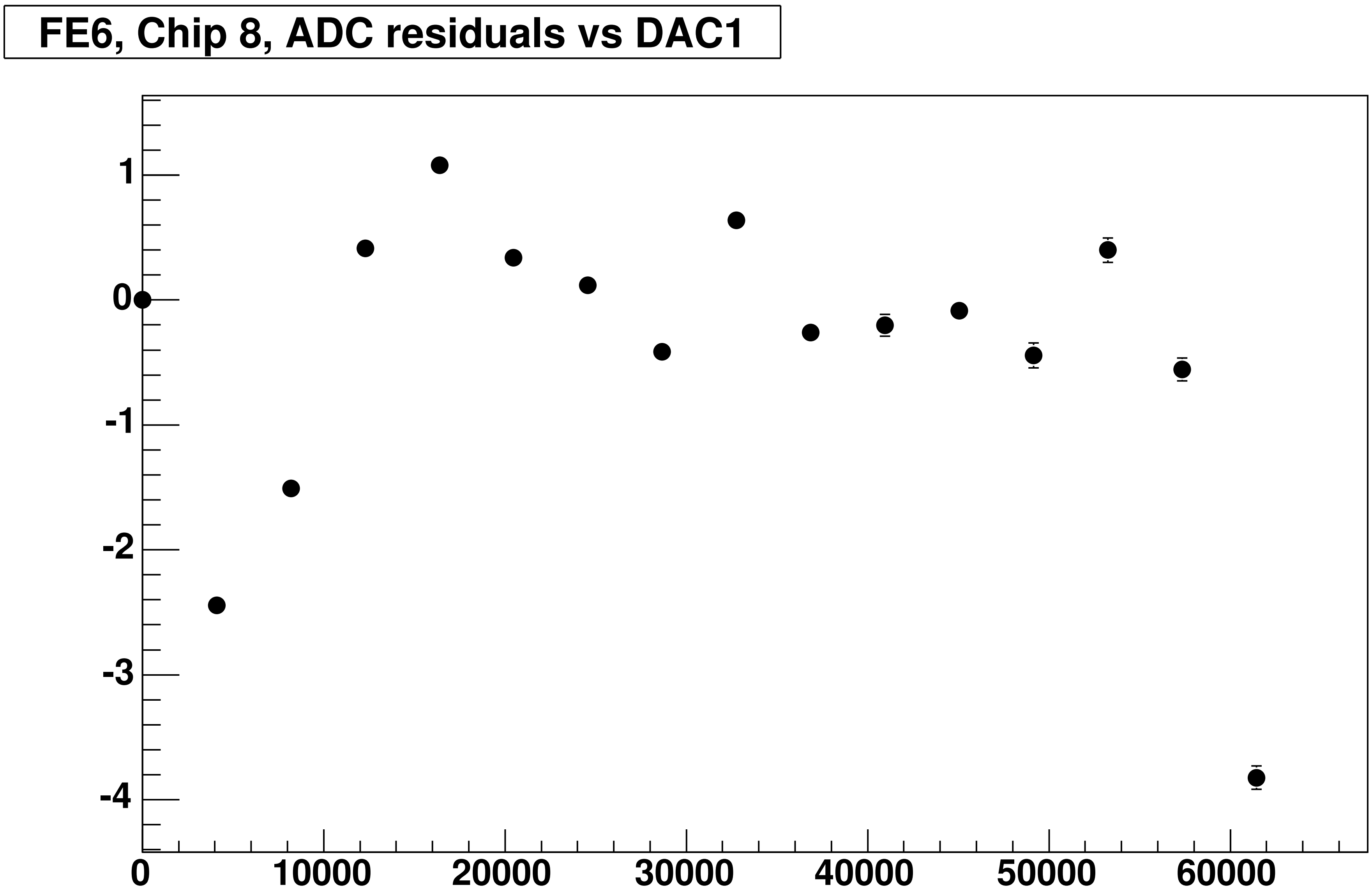


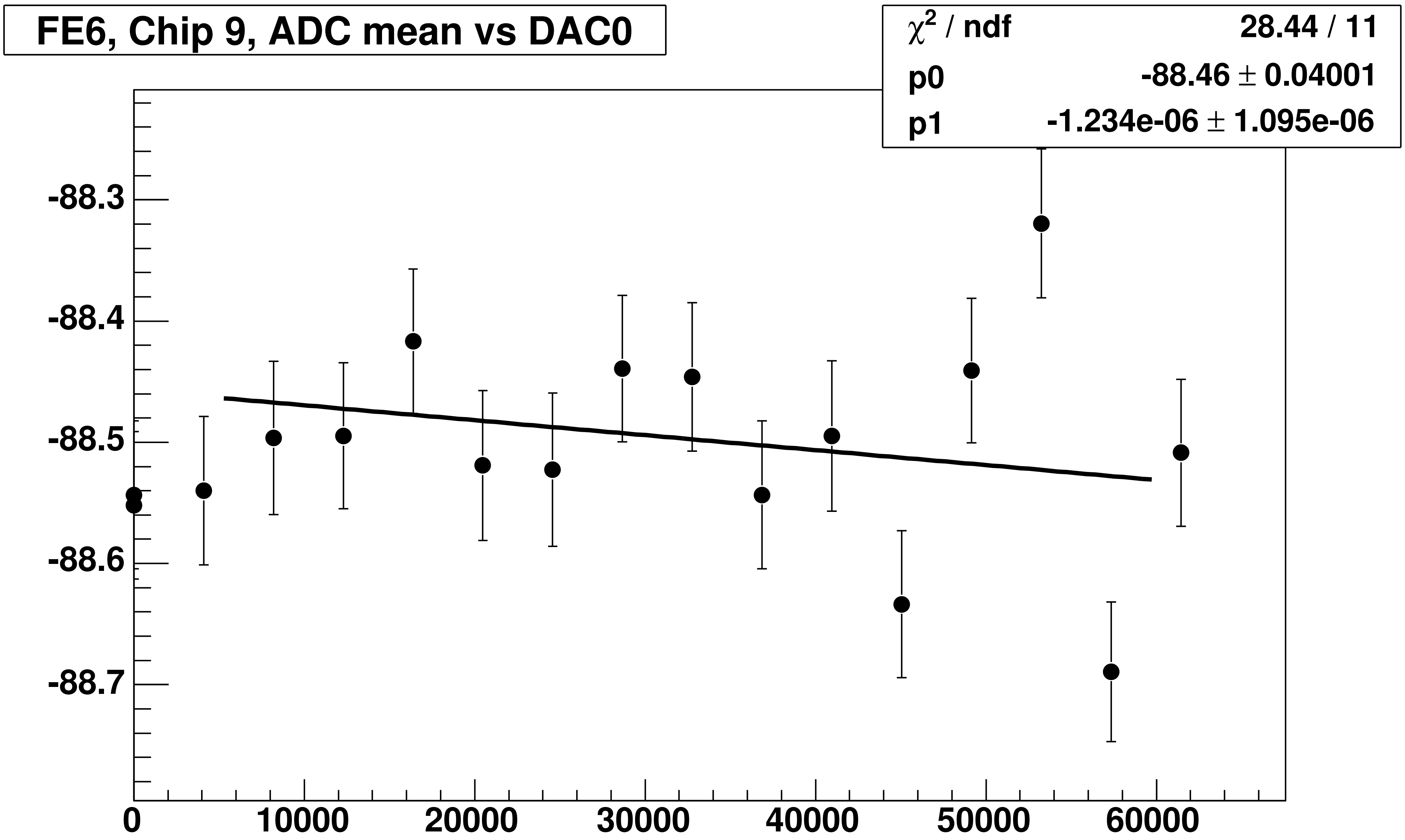
FE6, Chip 8, ADC noise vs DAC0
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
1.34
0
10000
20000
30000
40000
50000
60000

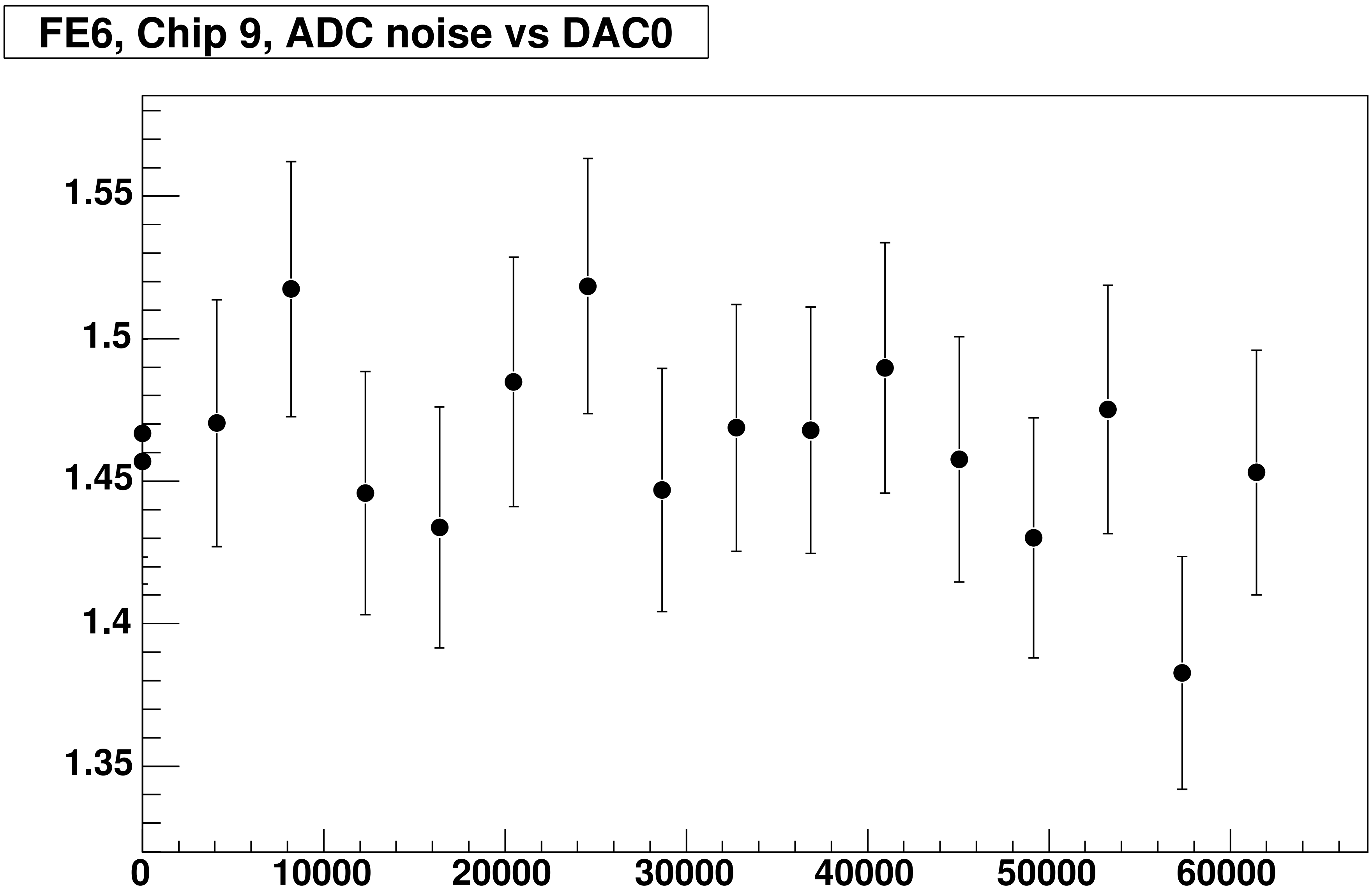

FE6, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE6, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1378 / 11
p0 -89.97 ± 0.04112
p1 0.4534 ± 1.345e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

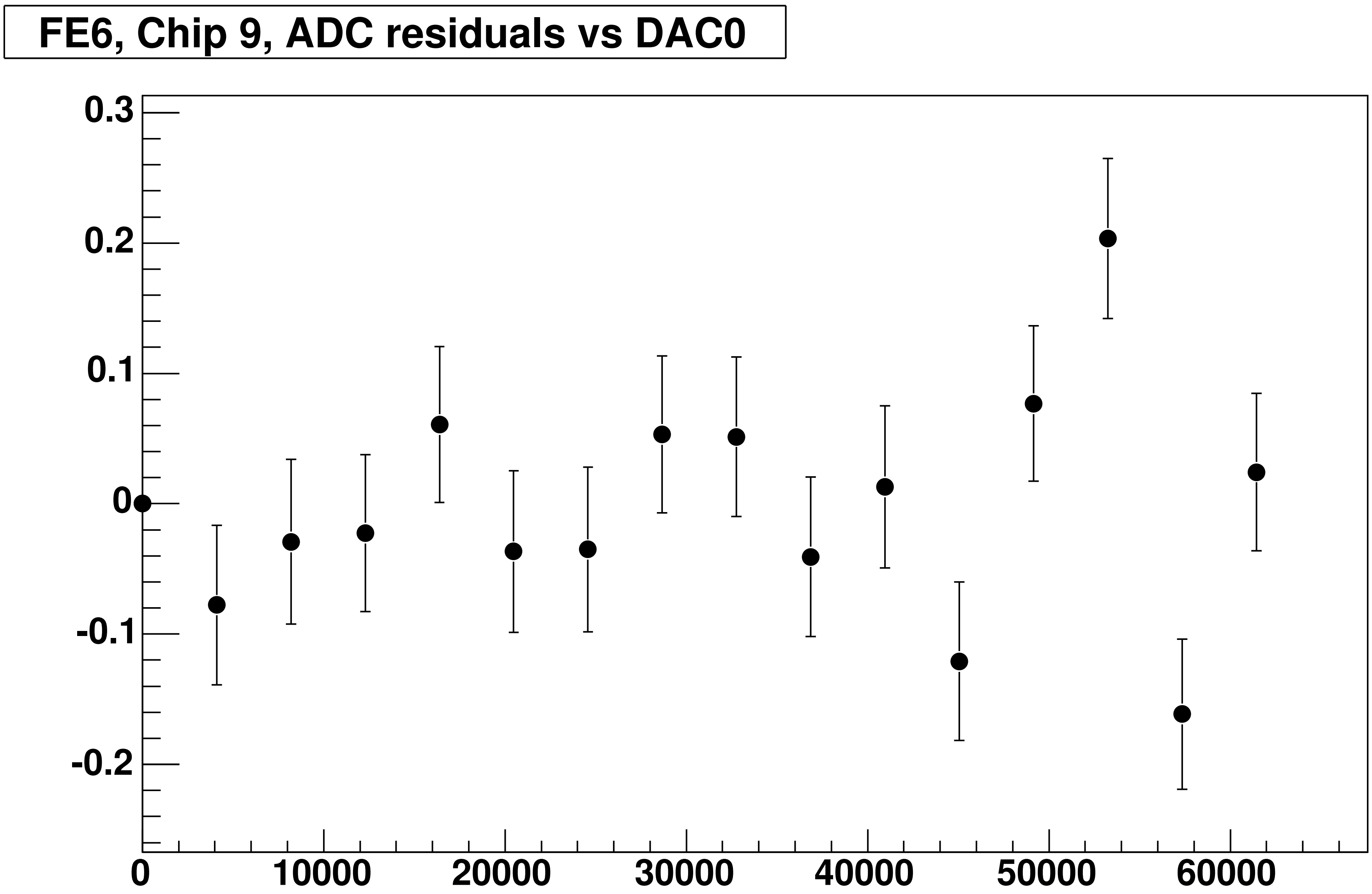

FE6, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

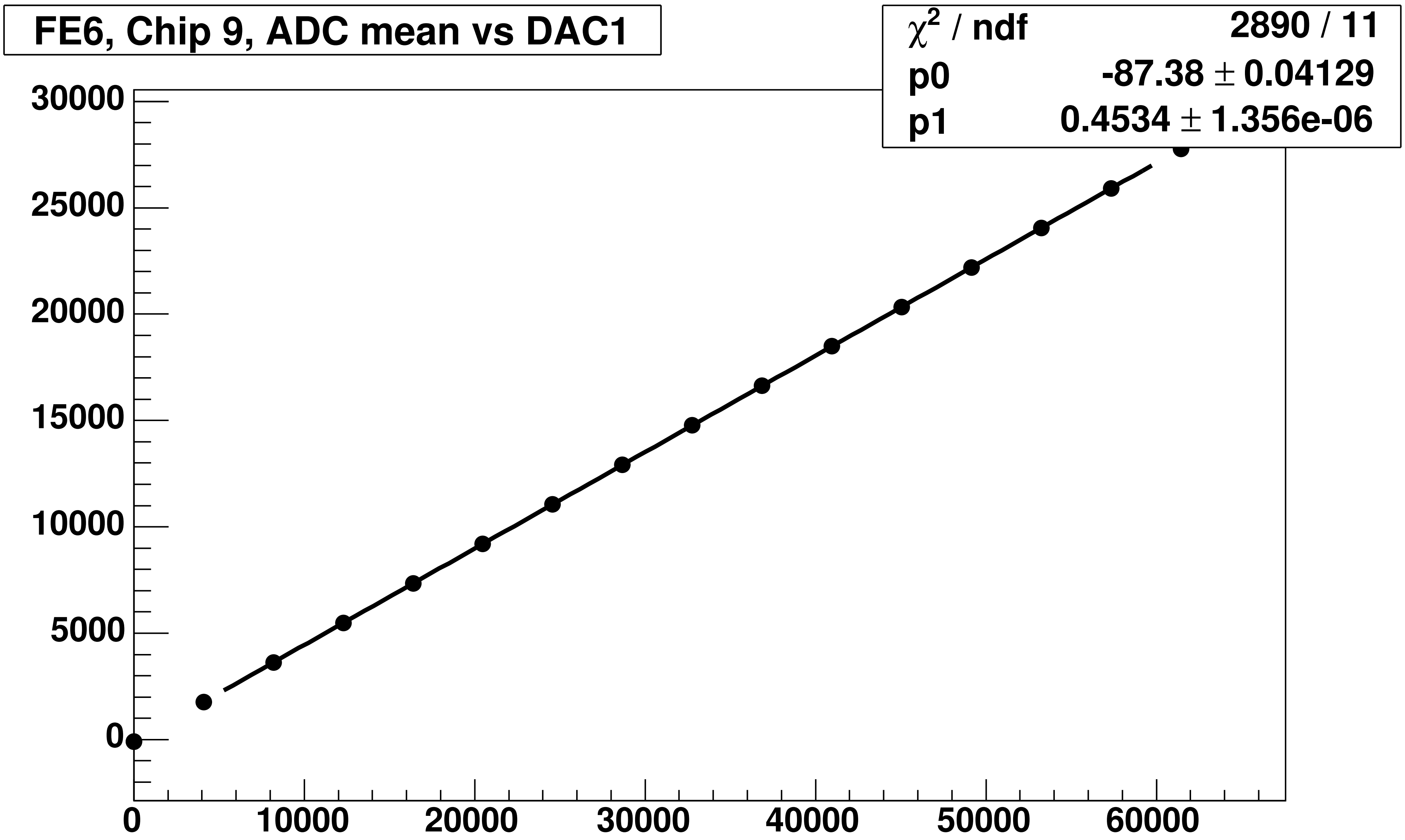

FE6, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000


FE6, Chip 9, ADC mean vs DAC0
χ^2 / ndf 28.44 / 11
p0 -88.46 ± 0.04001
p1 -1.234e-06 ± 1.095e-06
-88.3
-88.4
-88.5
-88.6
-88.7
0
10000
20000
30000
40000
50000
60000

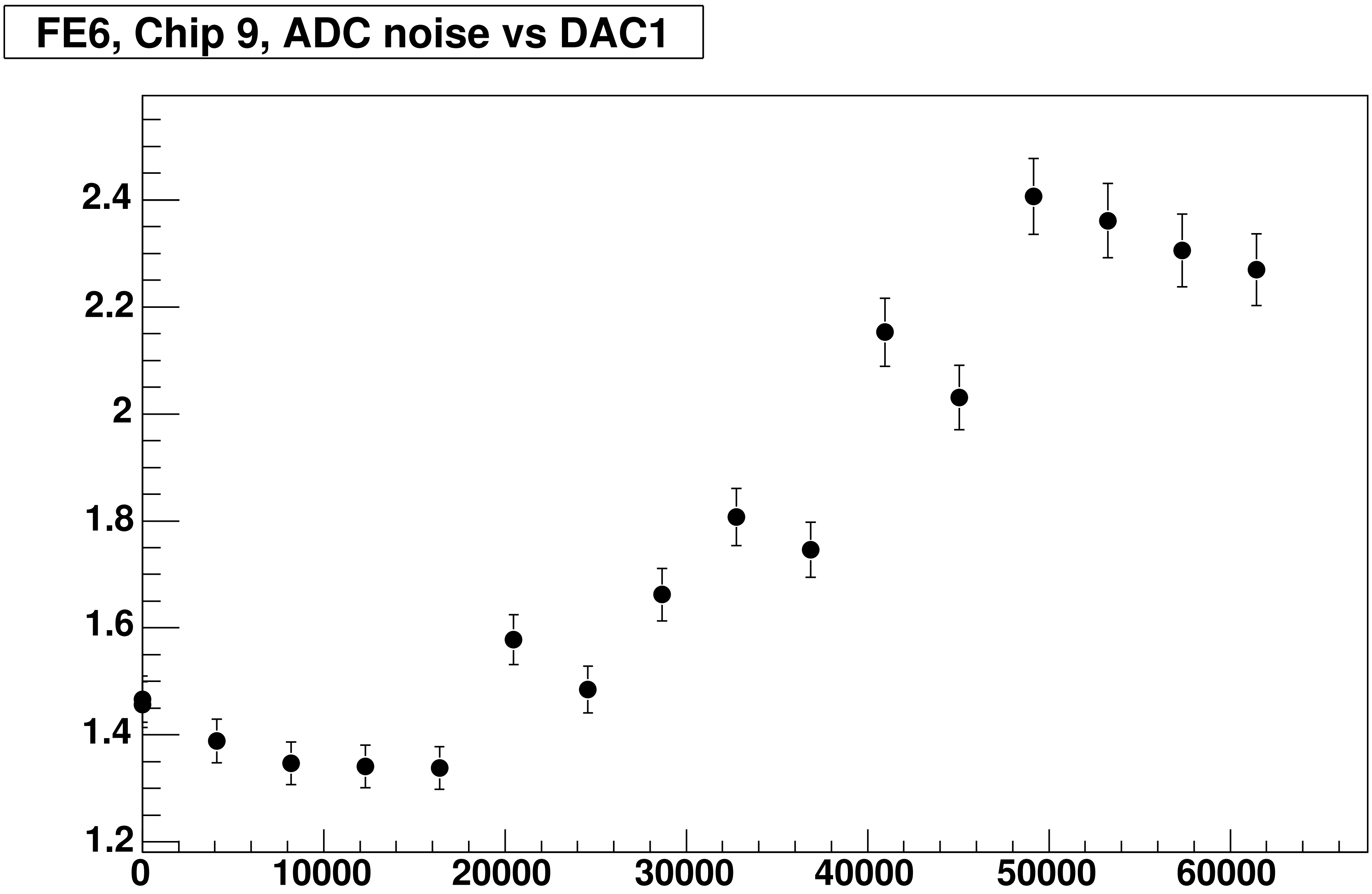


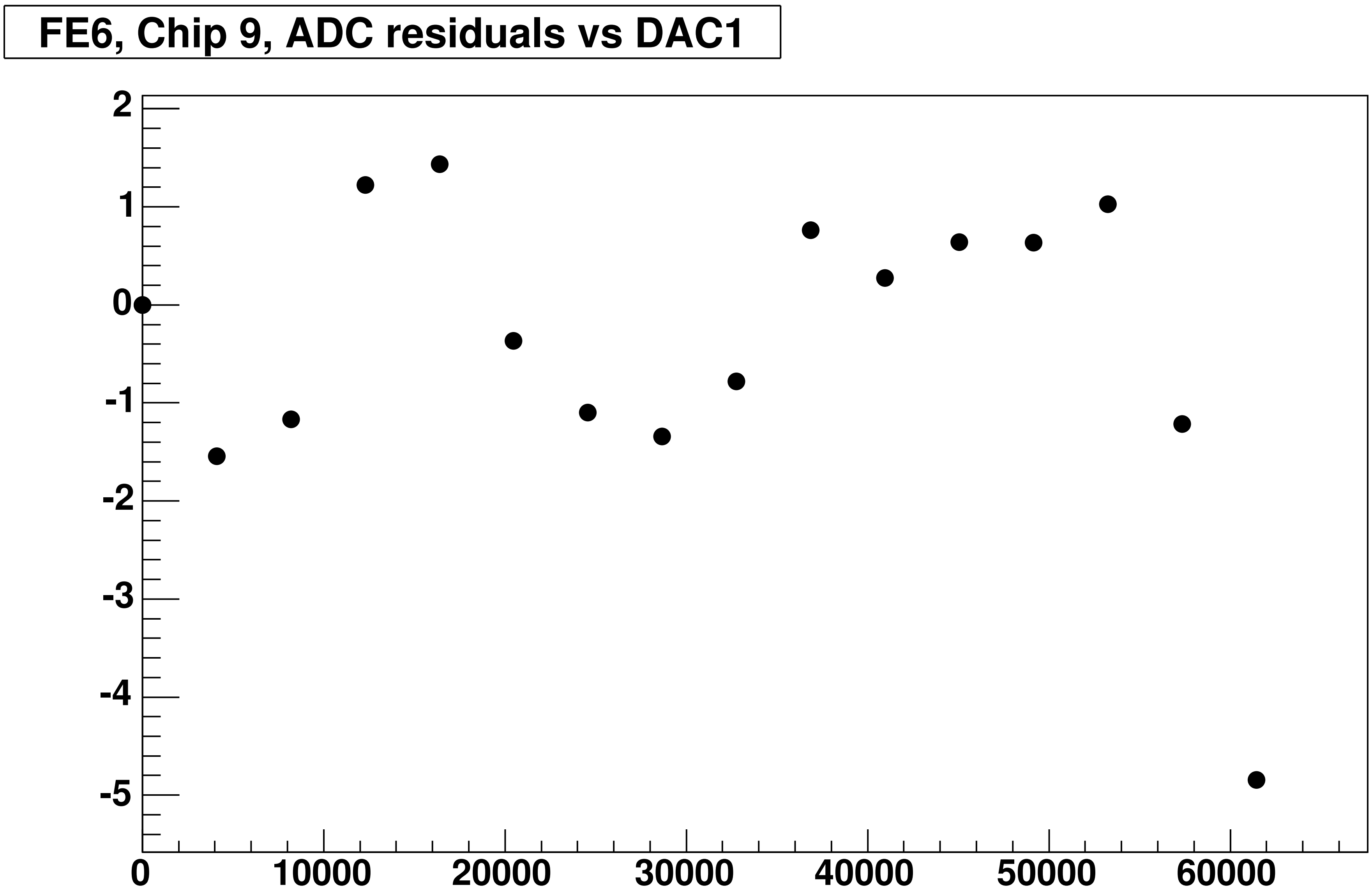
FE6, Chip 9, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE6, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

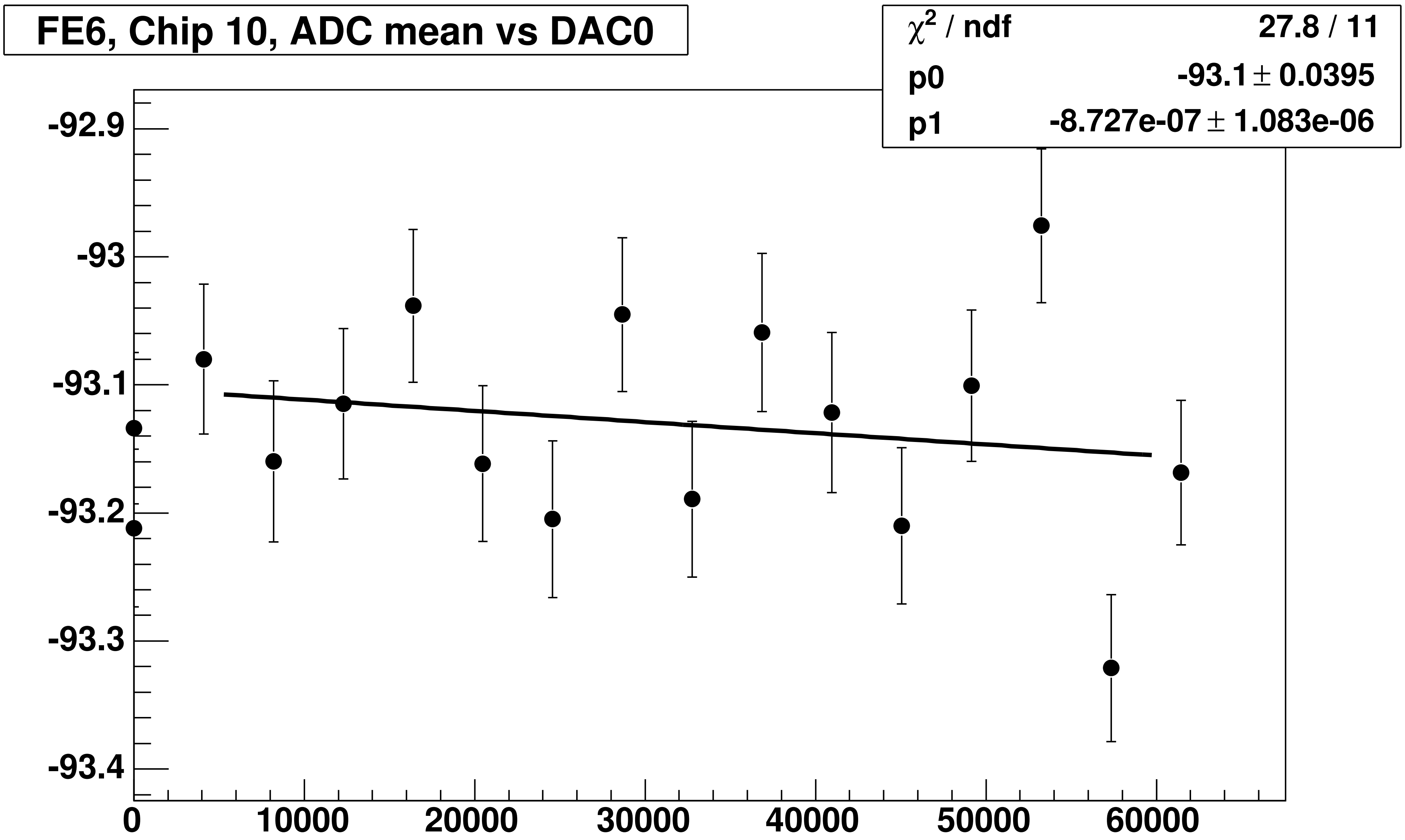


FE6, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2890 / 11
p0 -87.38 ± 0.04129
p1 0.4534 ± 1.356e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

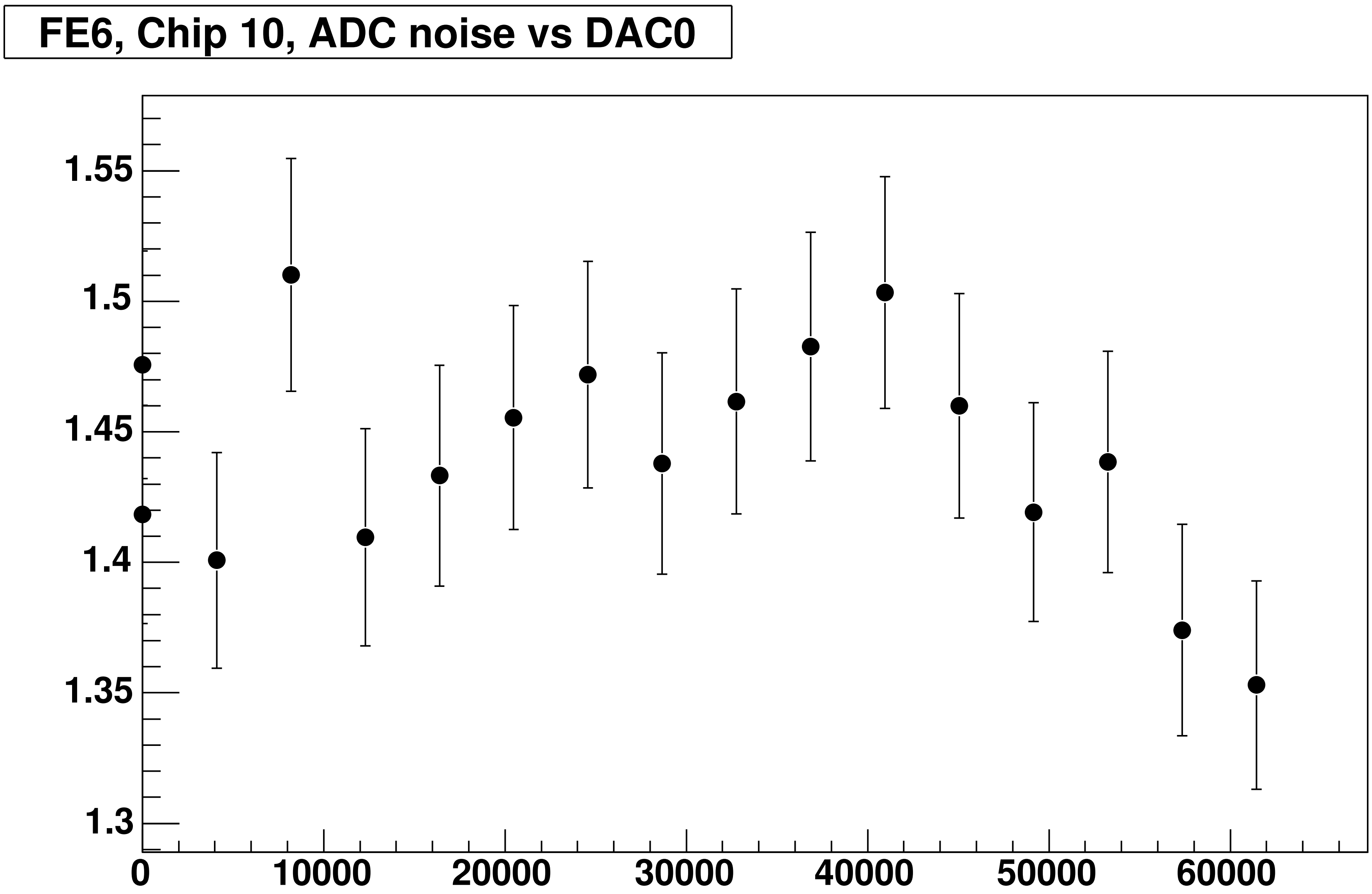

FE6, Chip 9, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



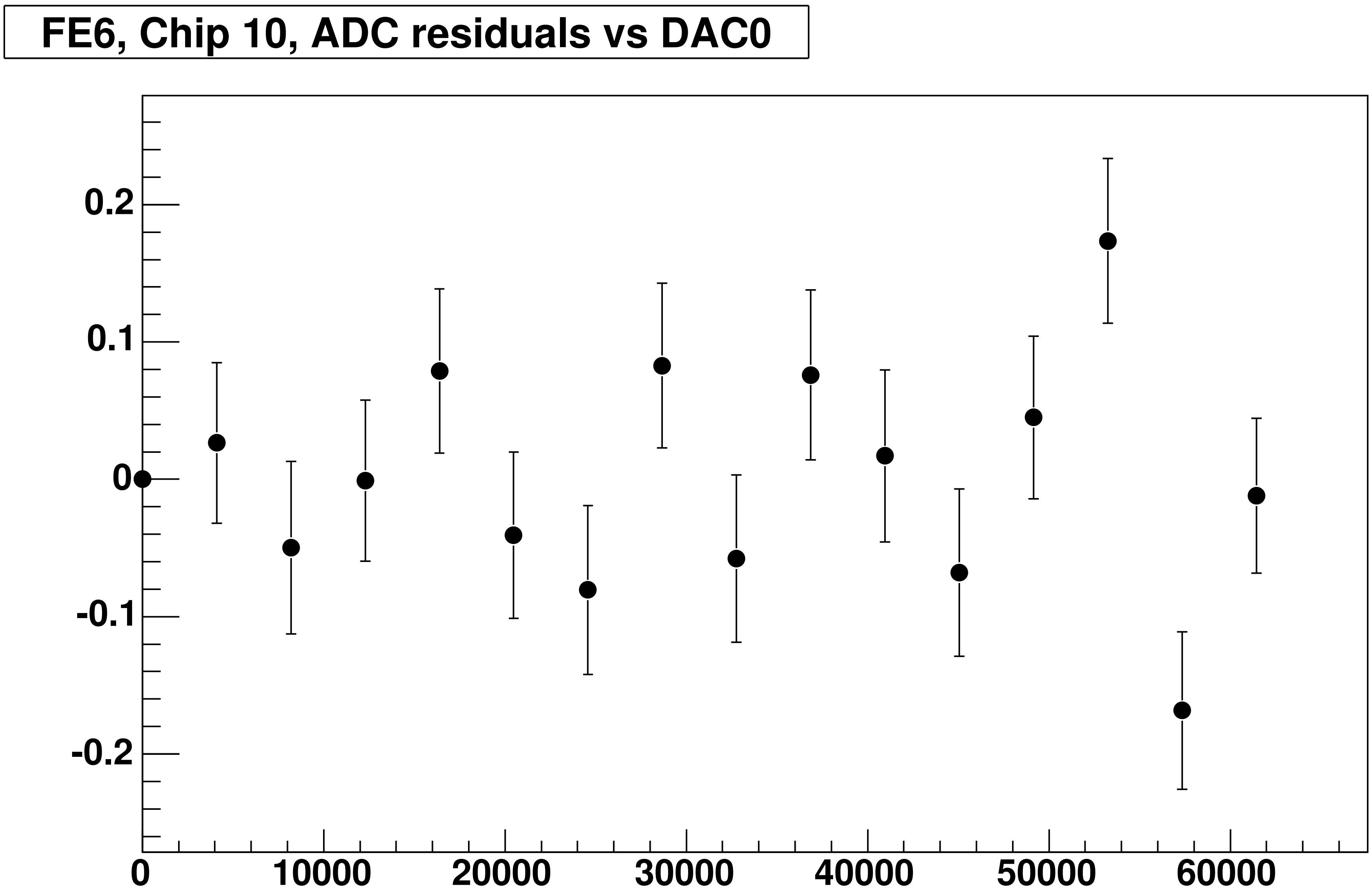
FE6, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

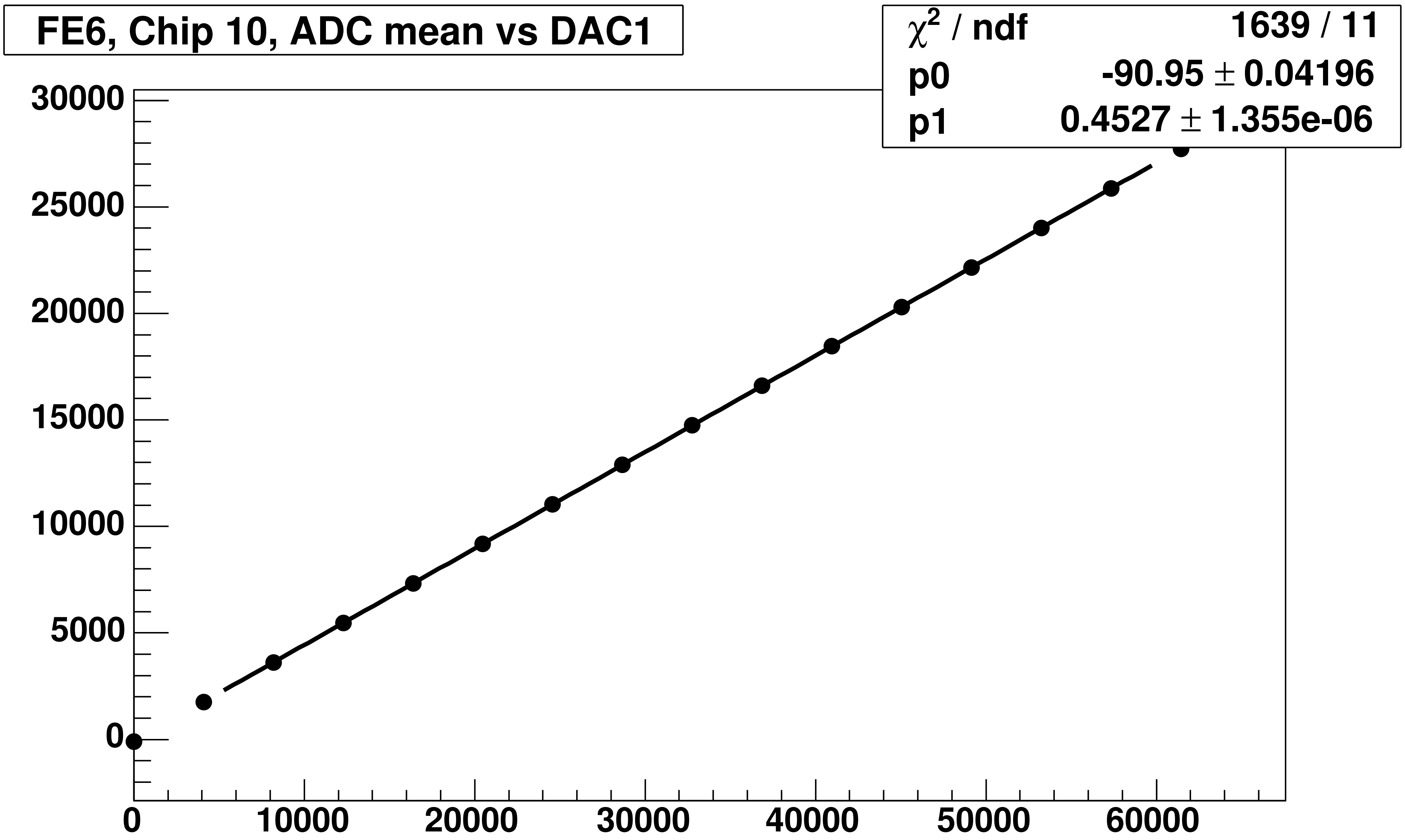


FE6, Chip 10, ADC mean vs DAC0
χ^2 / ndf 27.8 / 11
p0 -93.1 ± 0.0395
p1 -8.727e-07 ± 1.083e-06
-92.9
-93
-93.1
-93.2
-93.3
-93.4
0
10000
20000
30000
40000
50000
60000

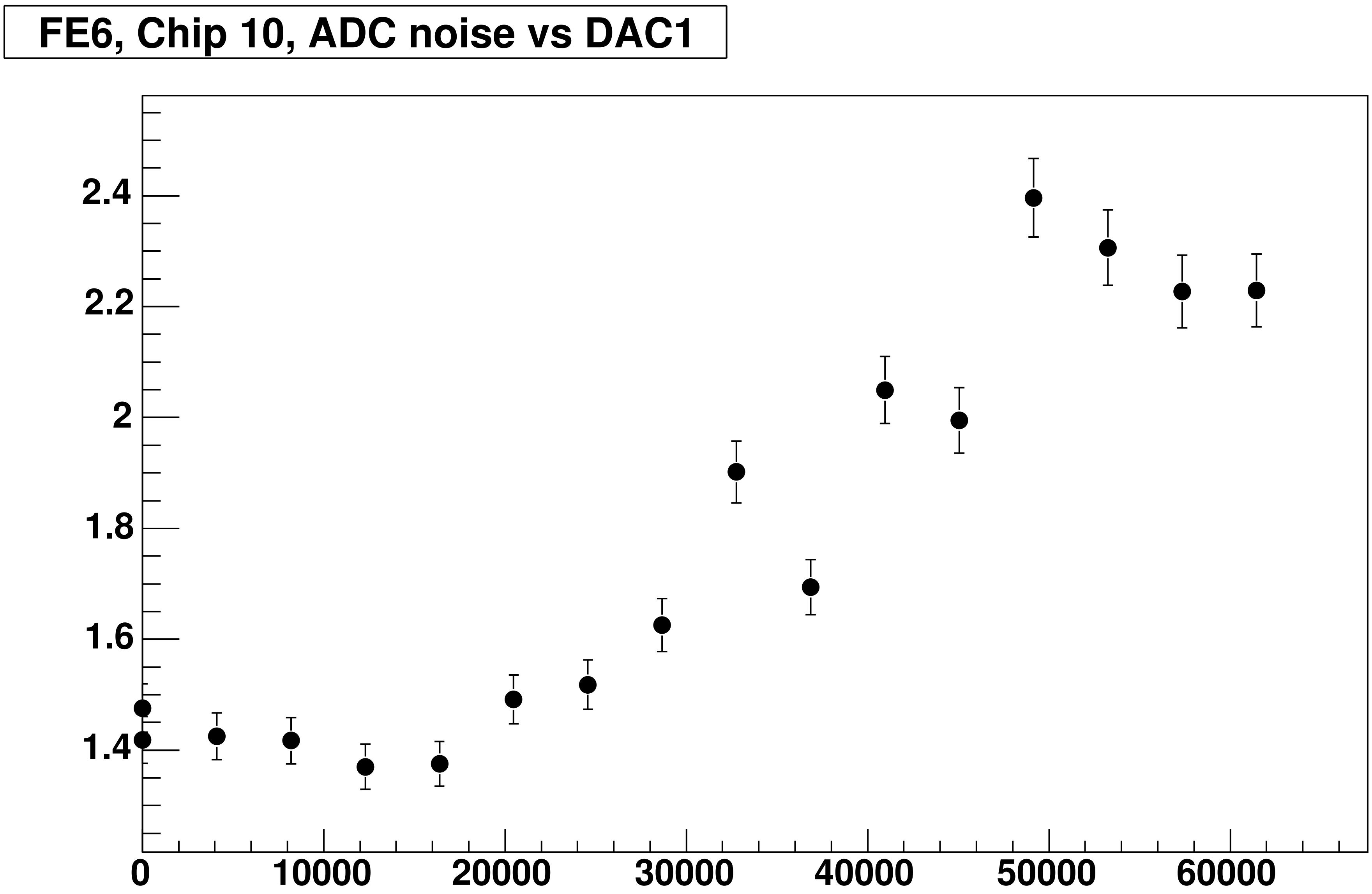


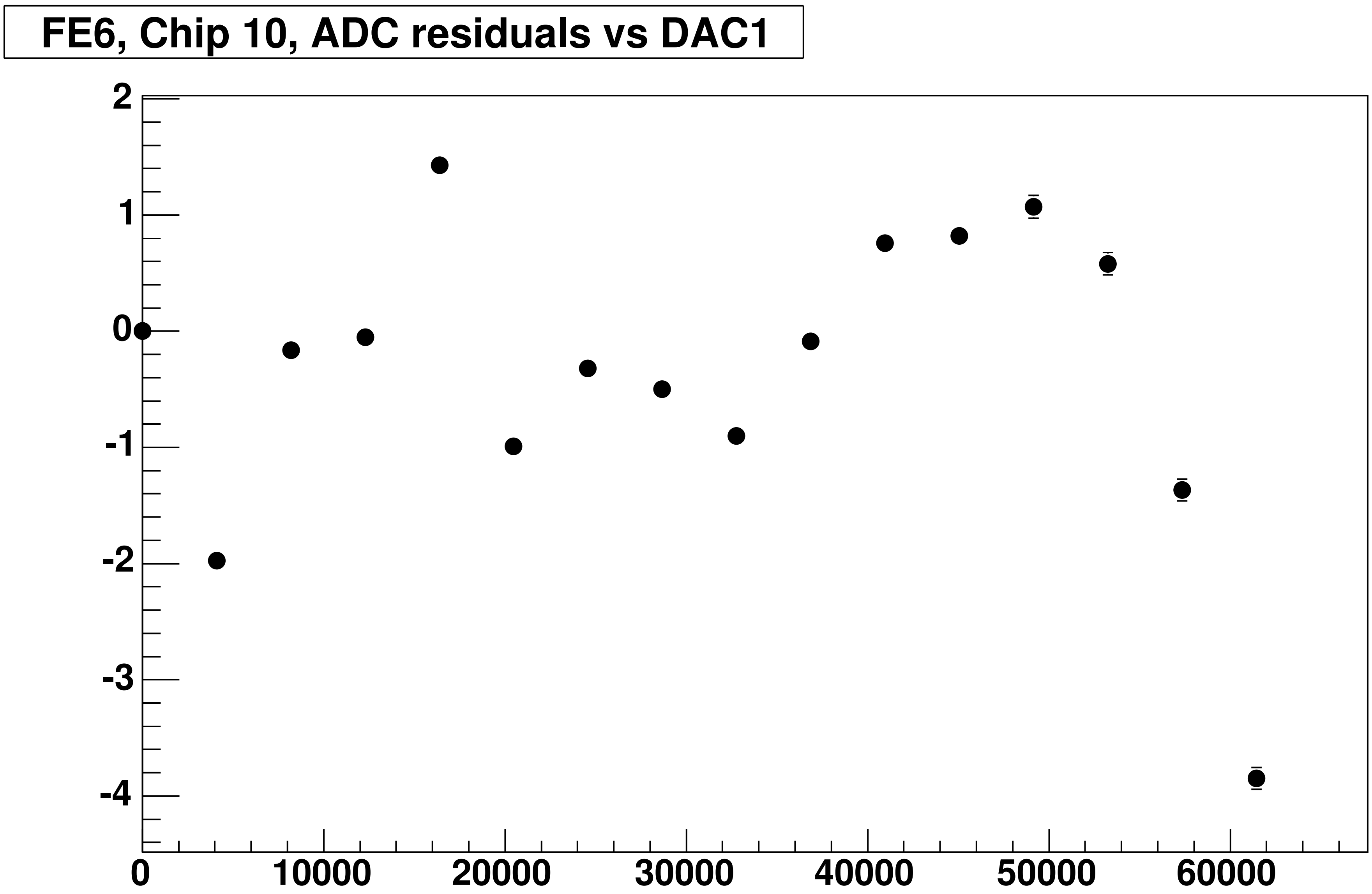
FE6, Chip 10, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

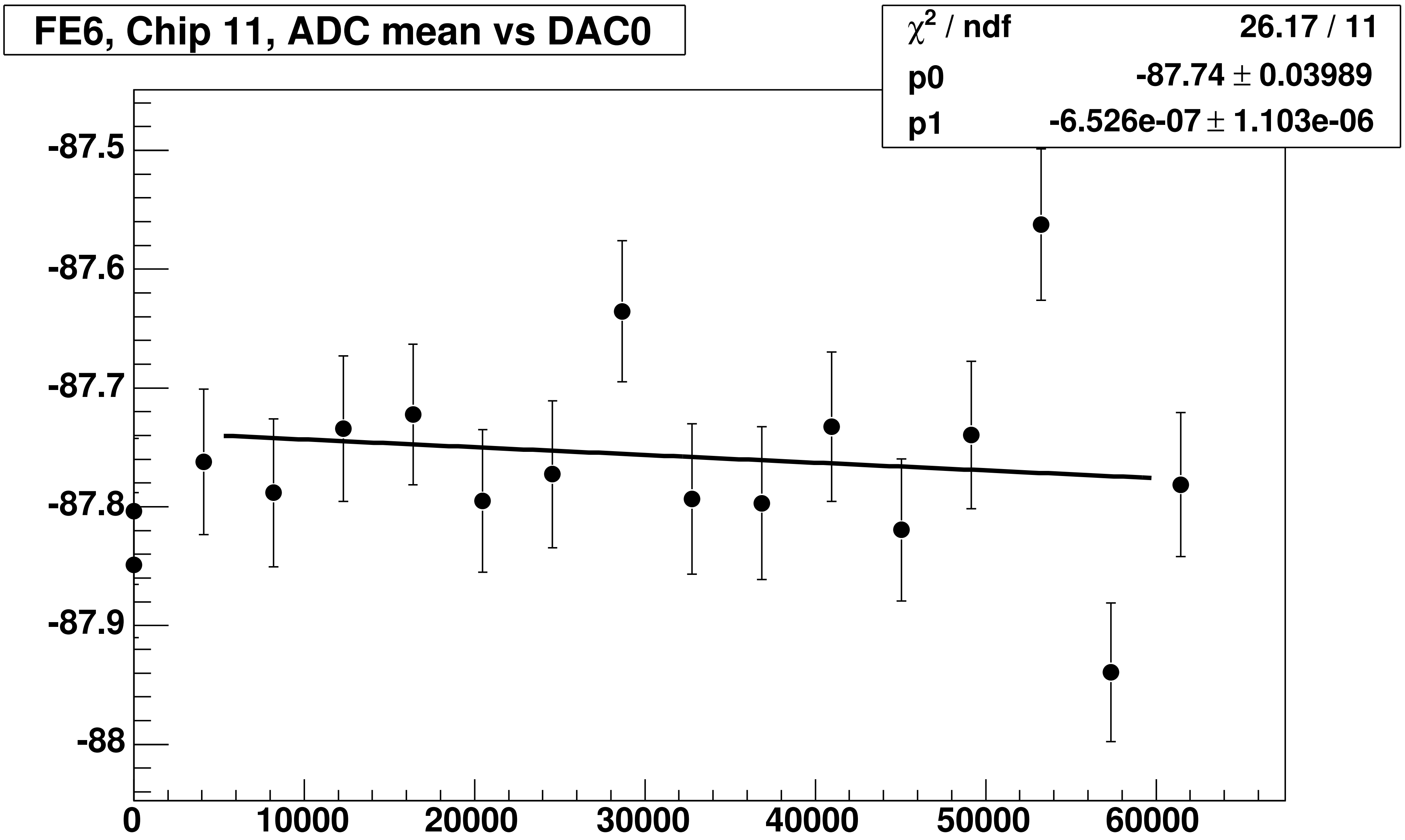

FE6, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

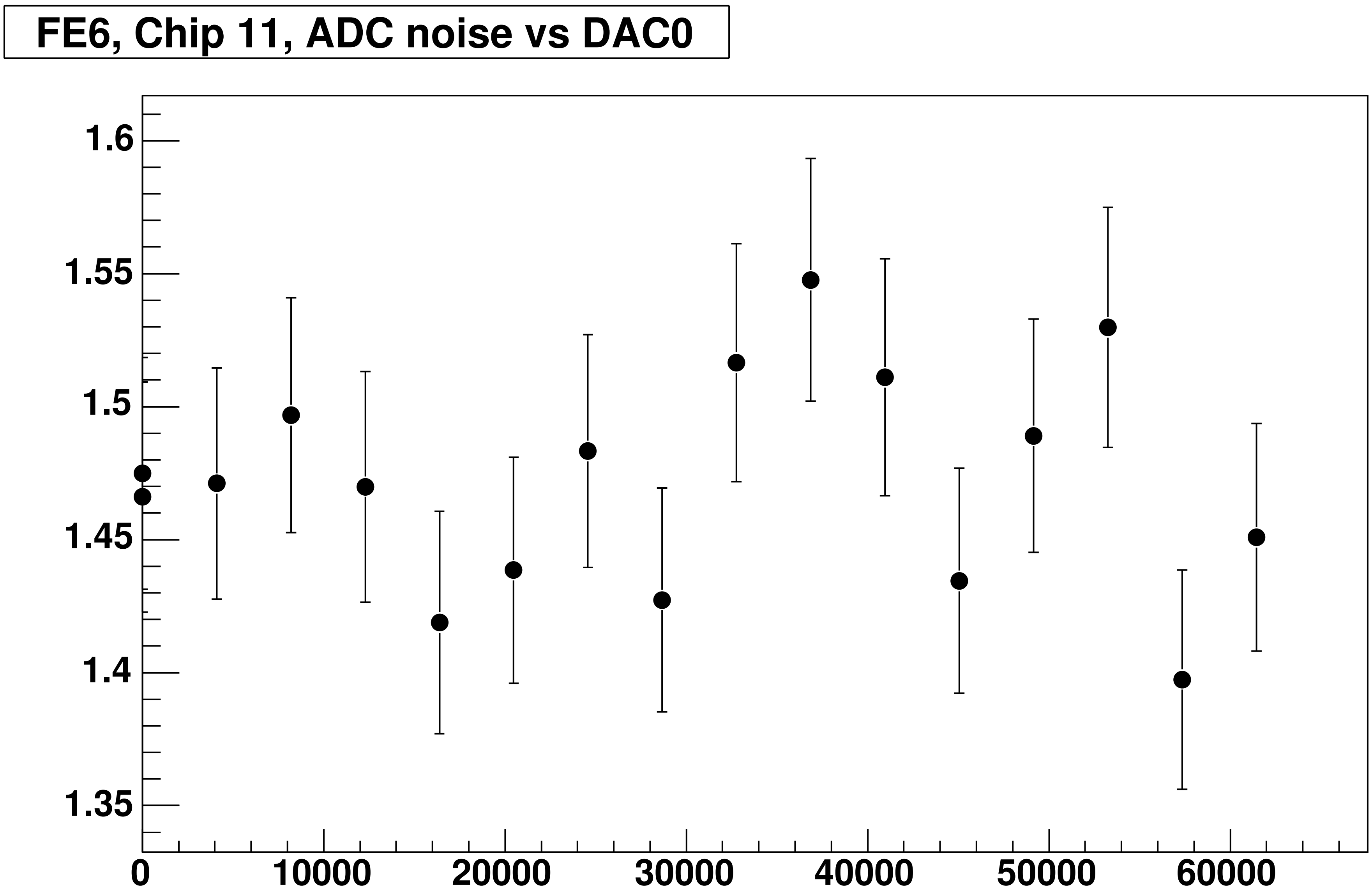


FE6, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1639 / 11
p0 -90.95 ± 0.04196
p1 0.4527 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

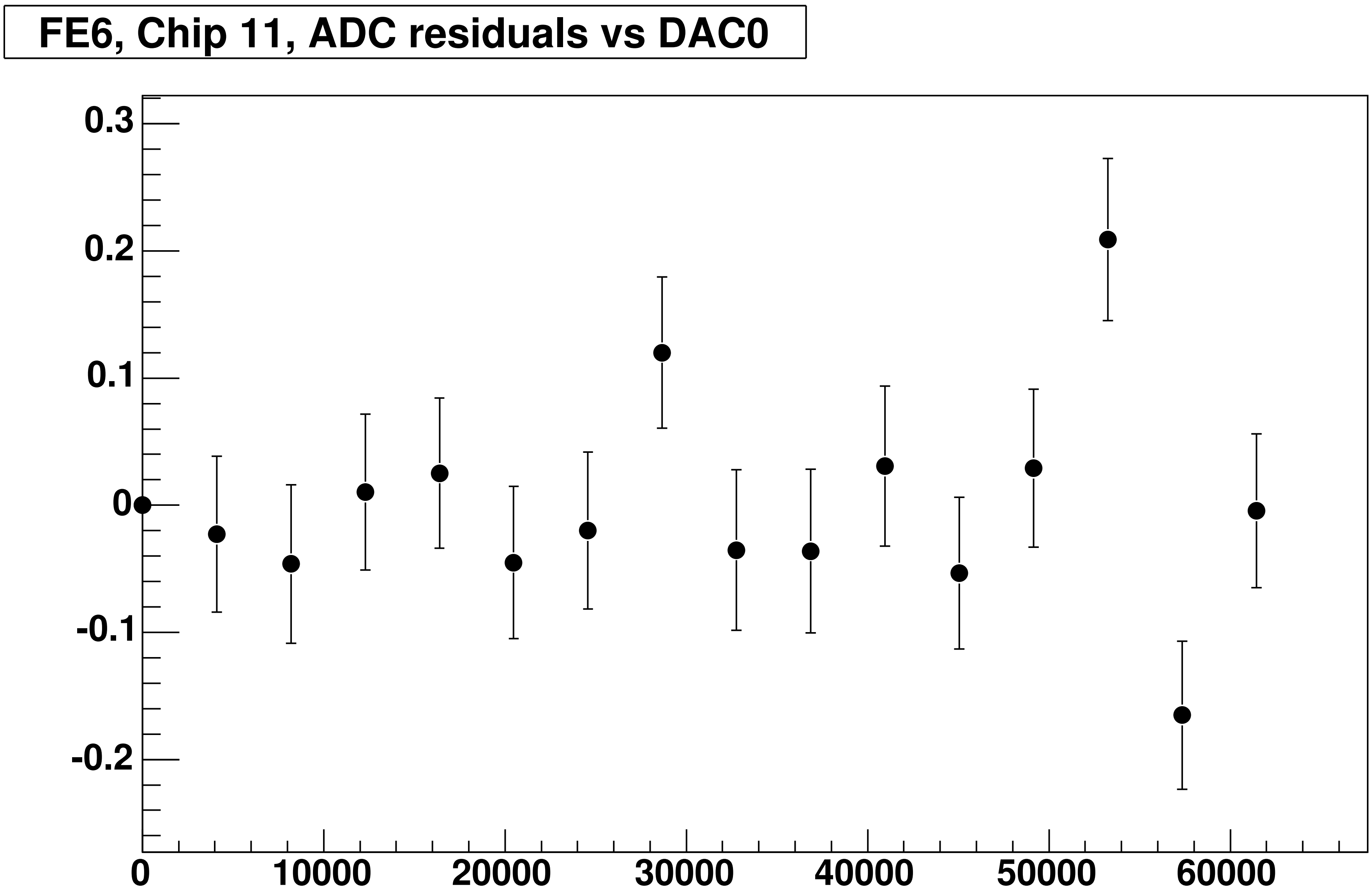

FE6, Chip 10, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

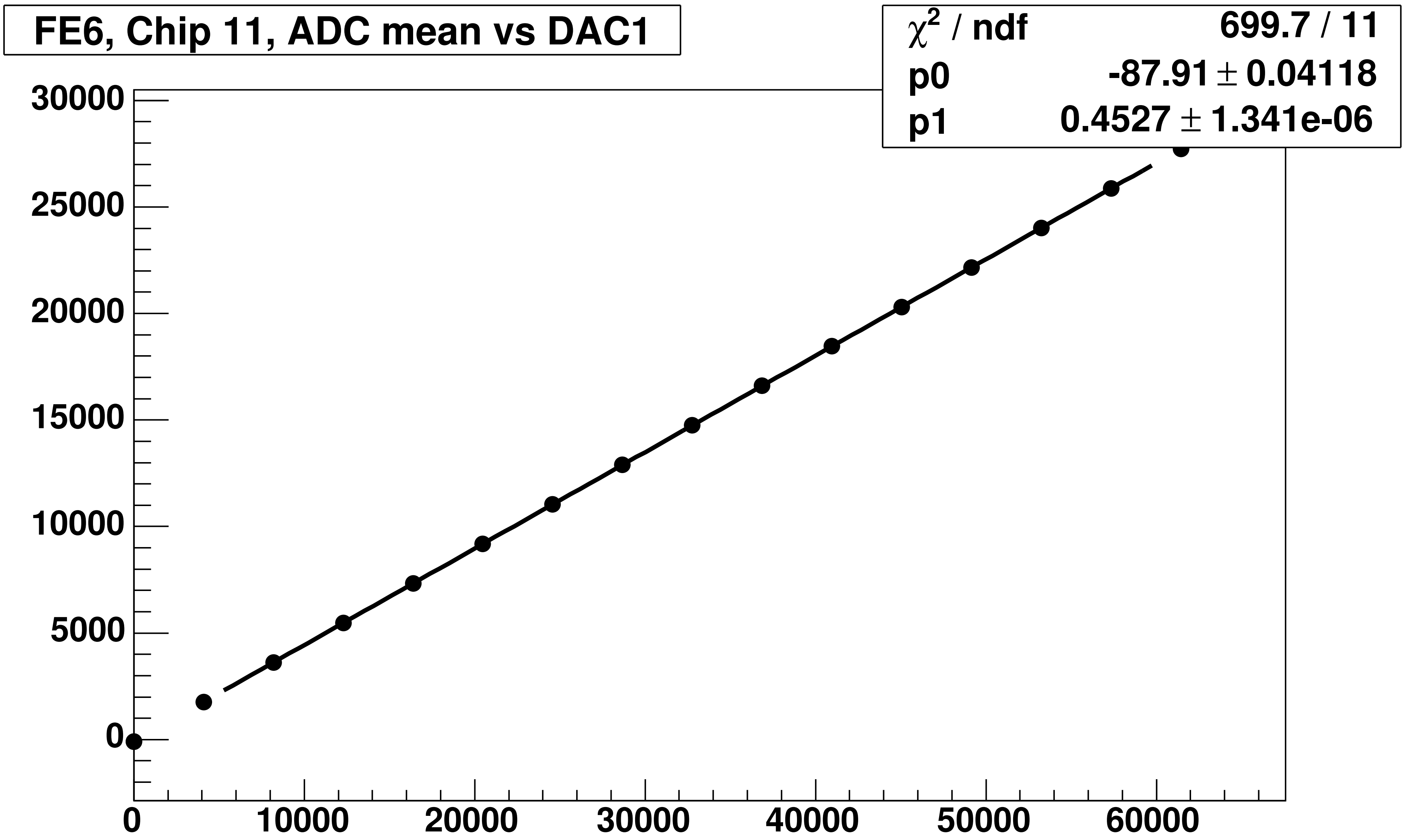

FE6, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000


FE6, Chip 11, ADC mean vs DAC0
χ^2 / ndf 26.17 / 11
p0 -87.74 ± 0.03989
p1 -6.526e-07 ± 1.103e-06
-87.5
-87.6
-87.7
-87.8
-87.9
-88
0
10000
20000
30000
40000
50000
60000

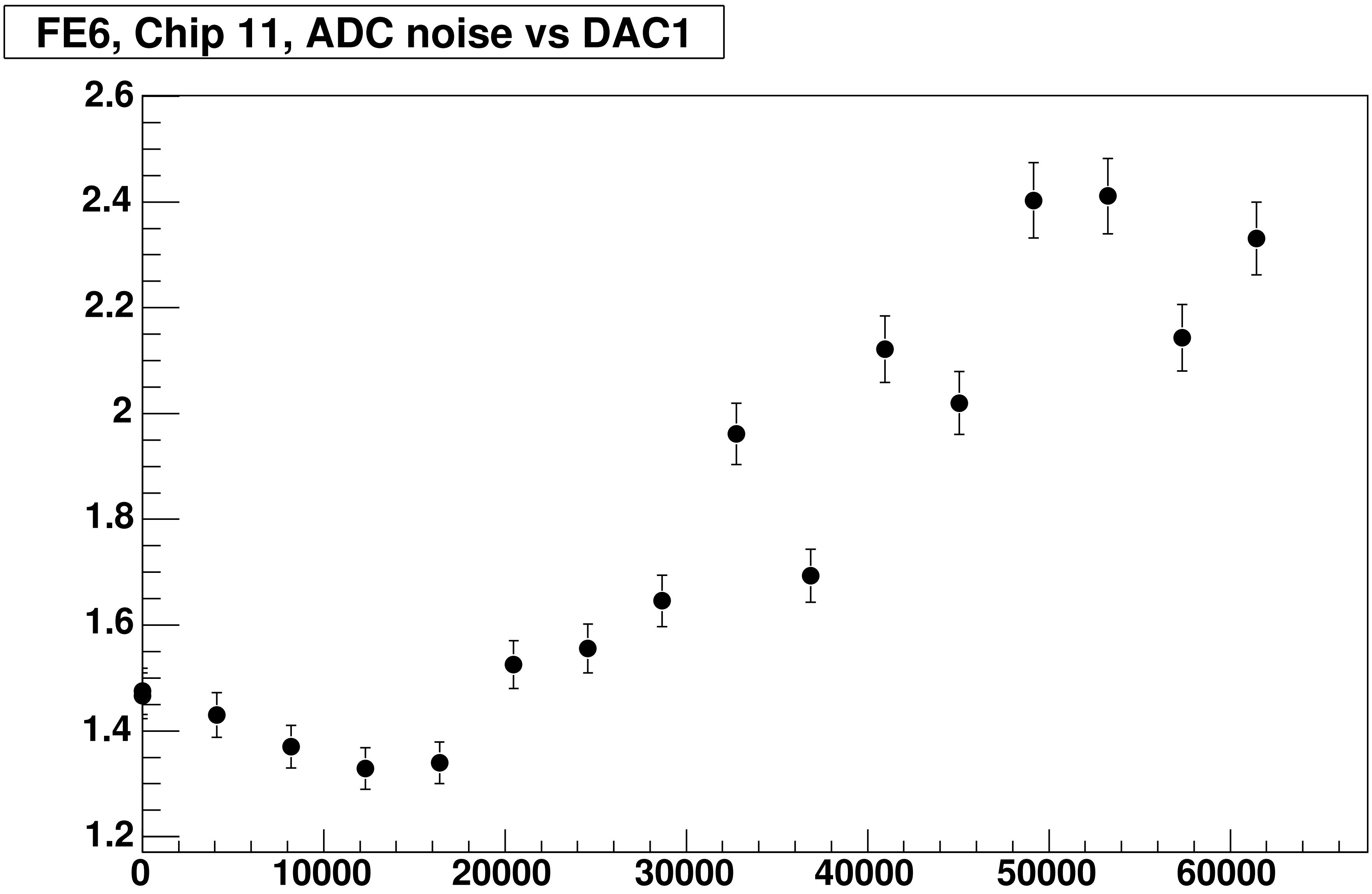


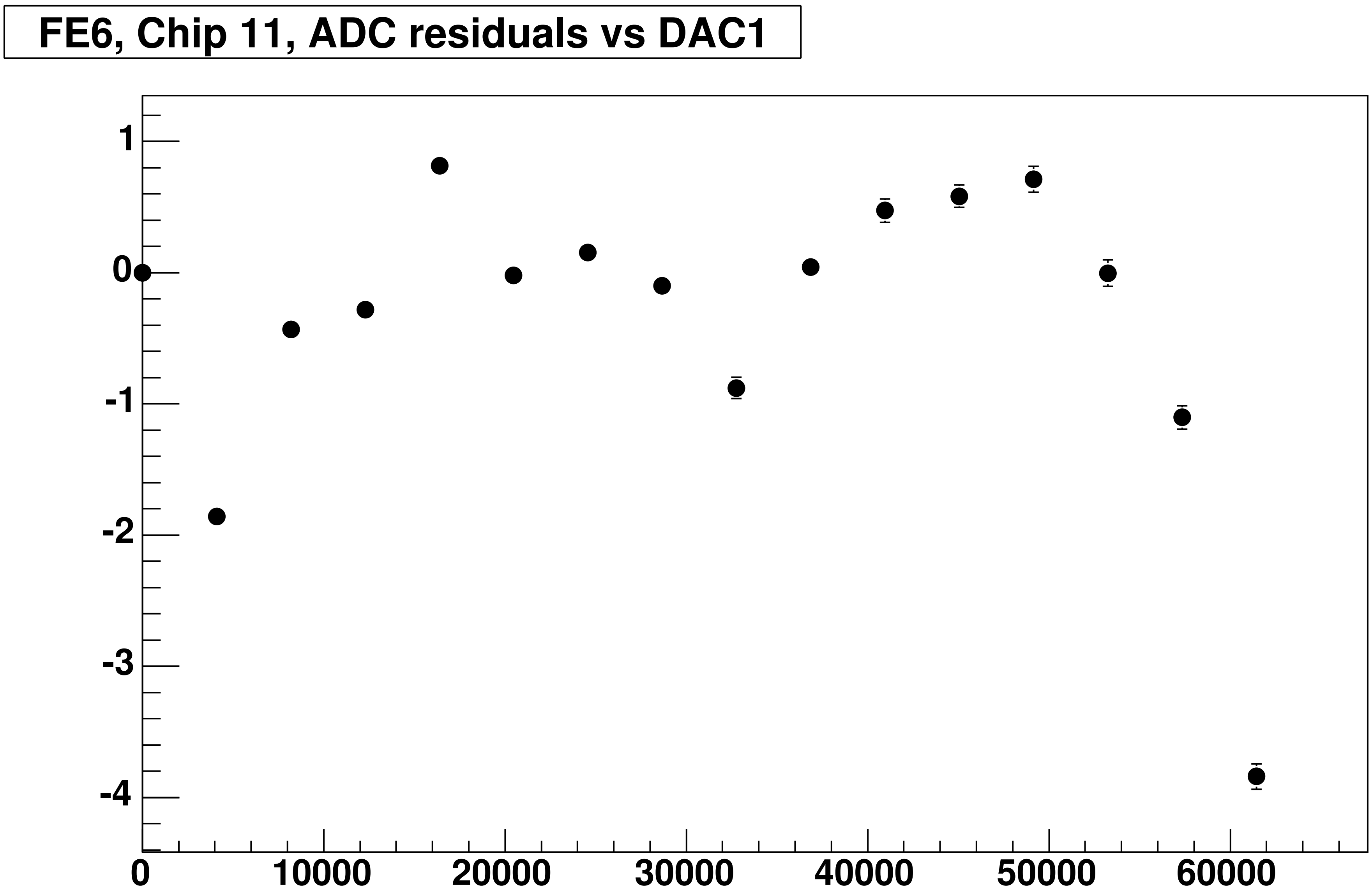
FE6, Chip 11, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

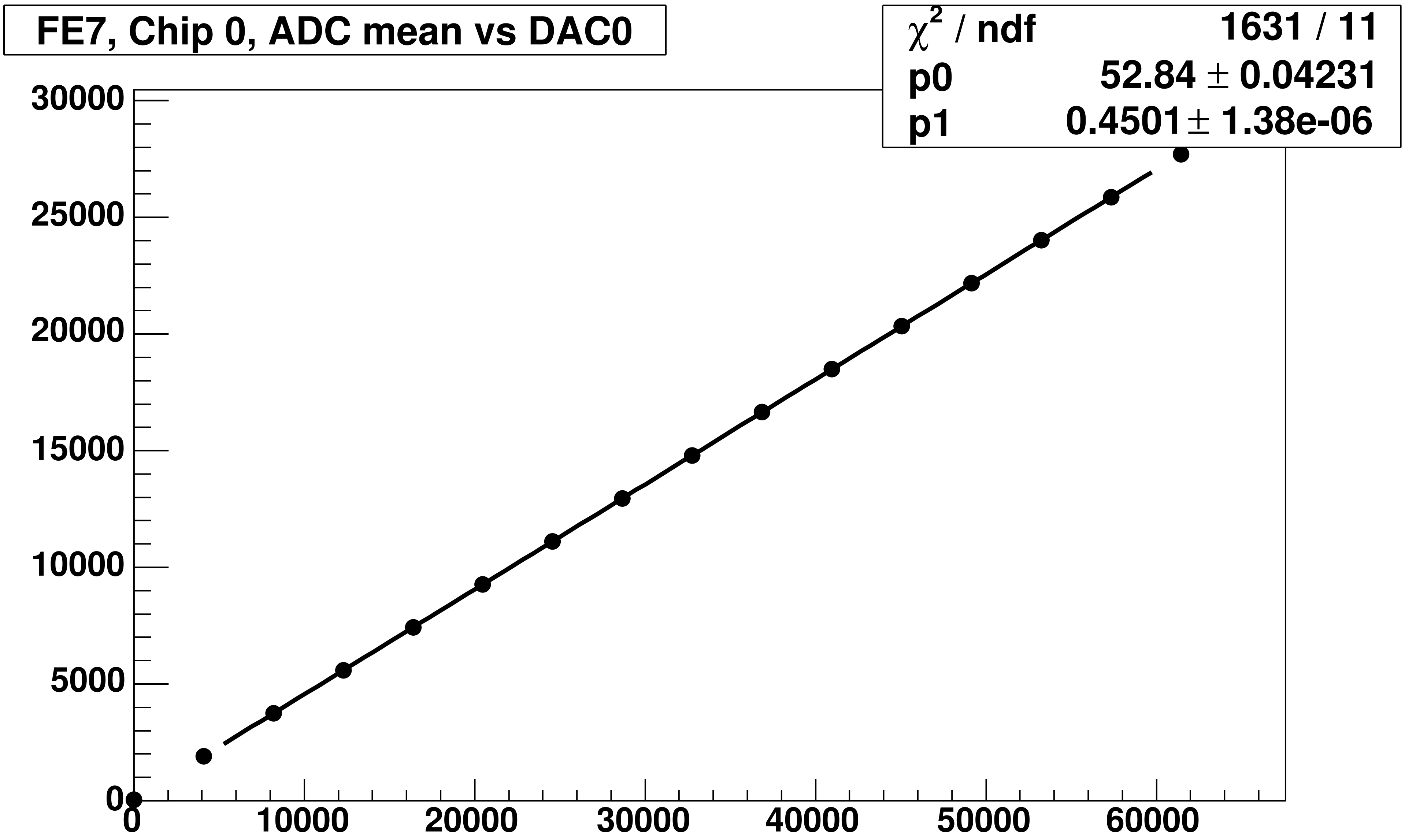

FE6, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

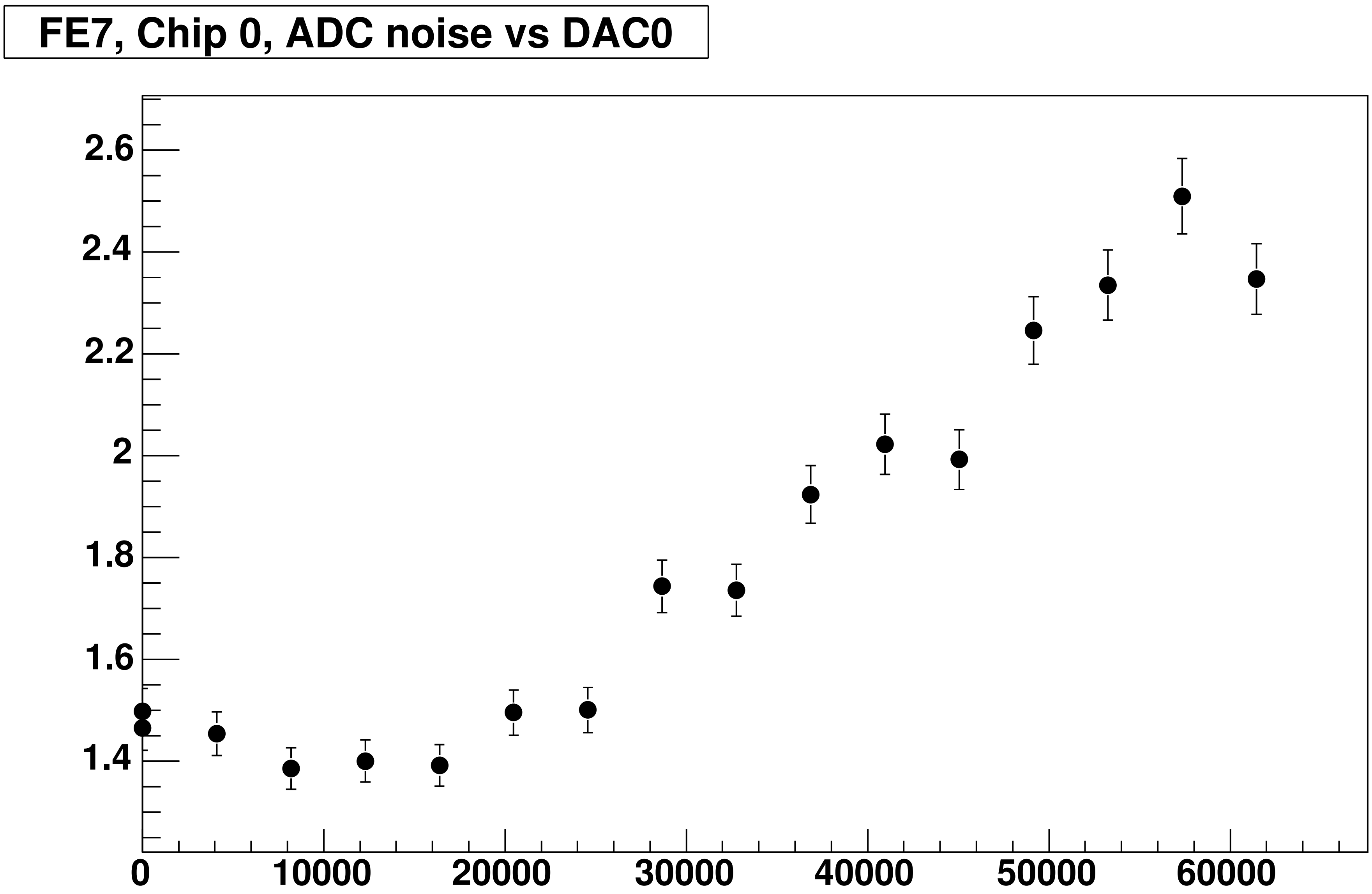


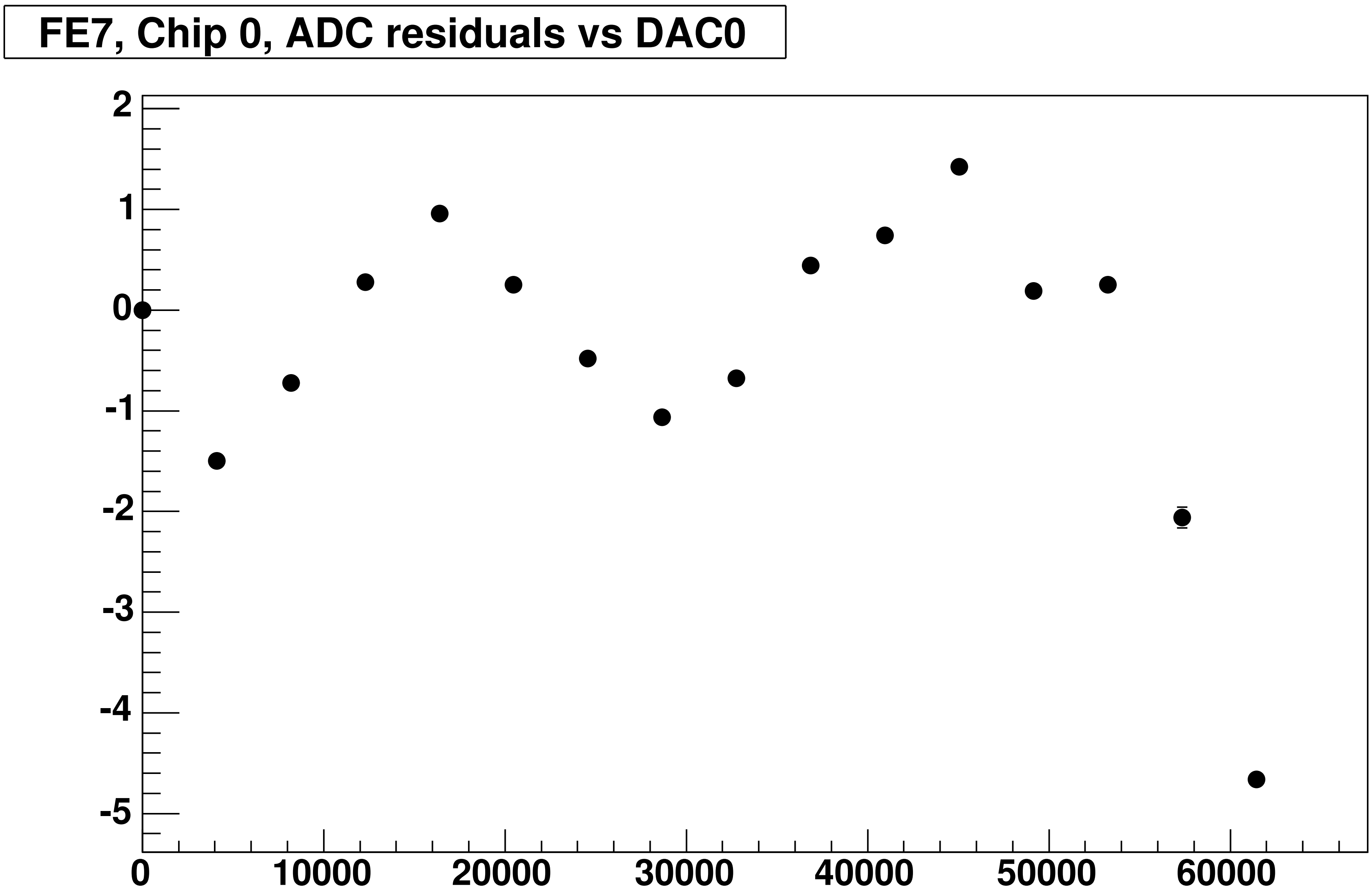
FE6, Chip 11, ADC mean vs DAC1
χ^2 / ndf 699.7 / 11
p0 -87.91 ± 0.04118
p1 0.4527 ± 1.341e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

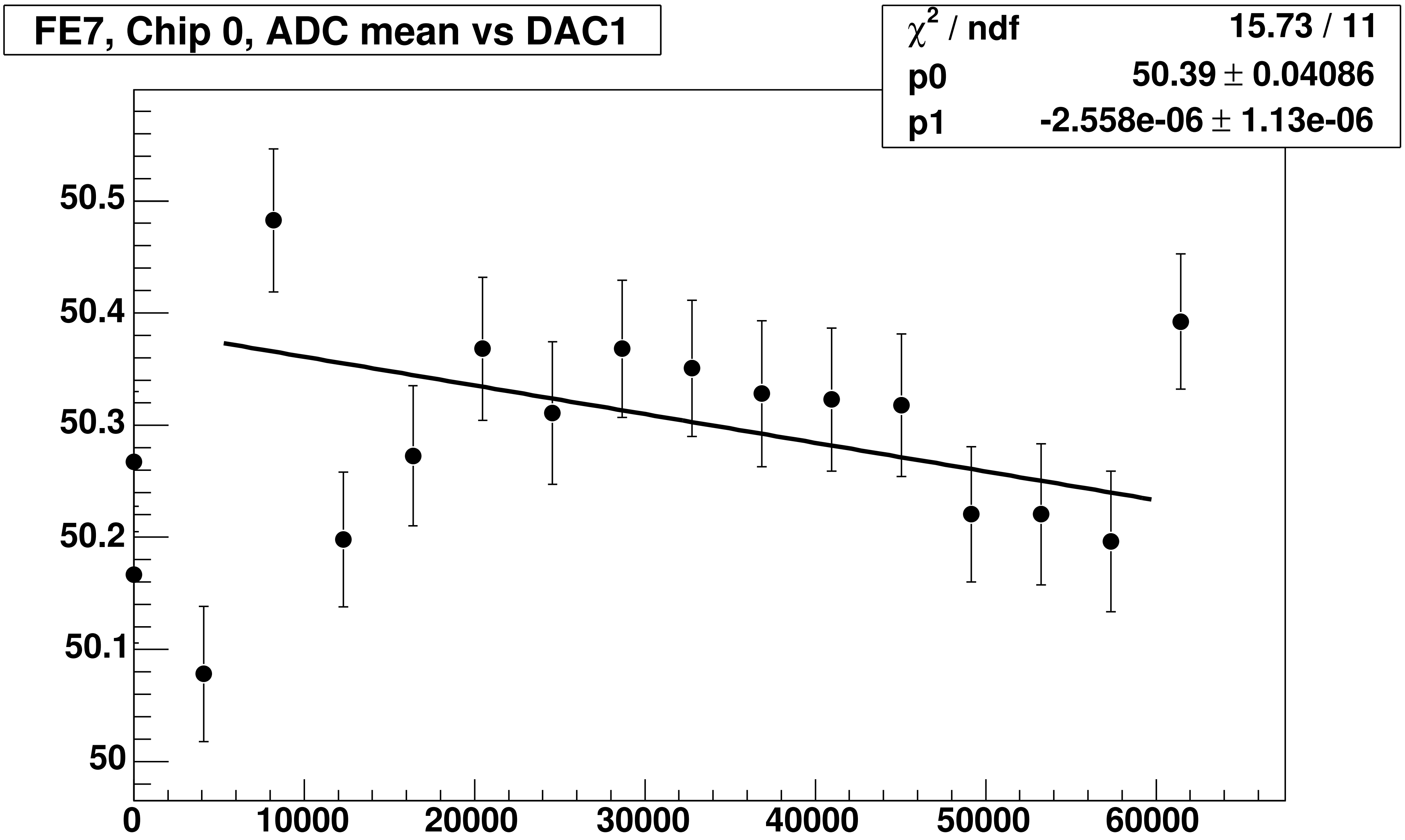

FE6, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE6, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

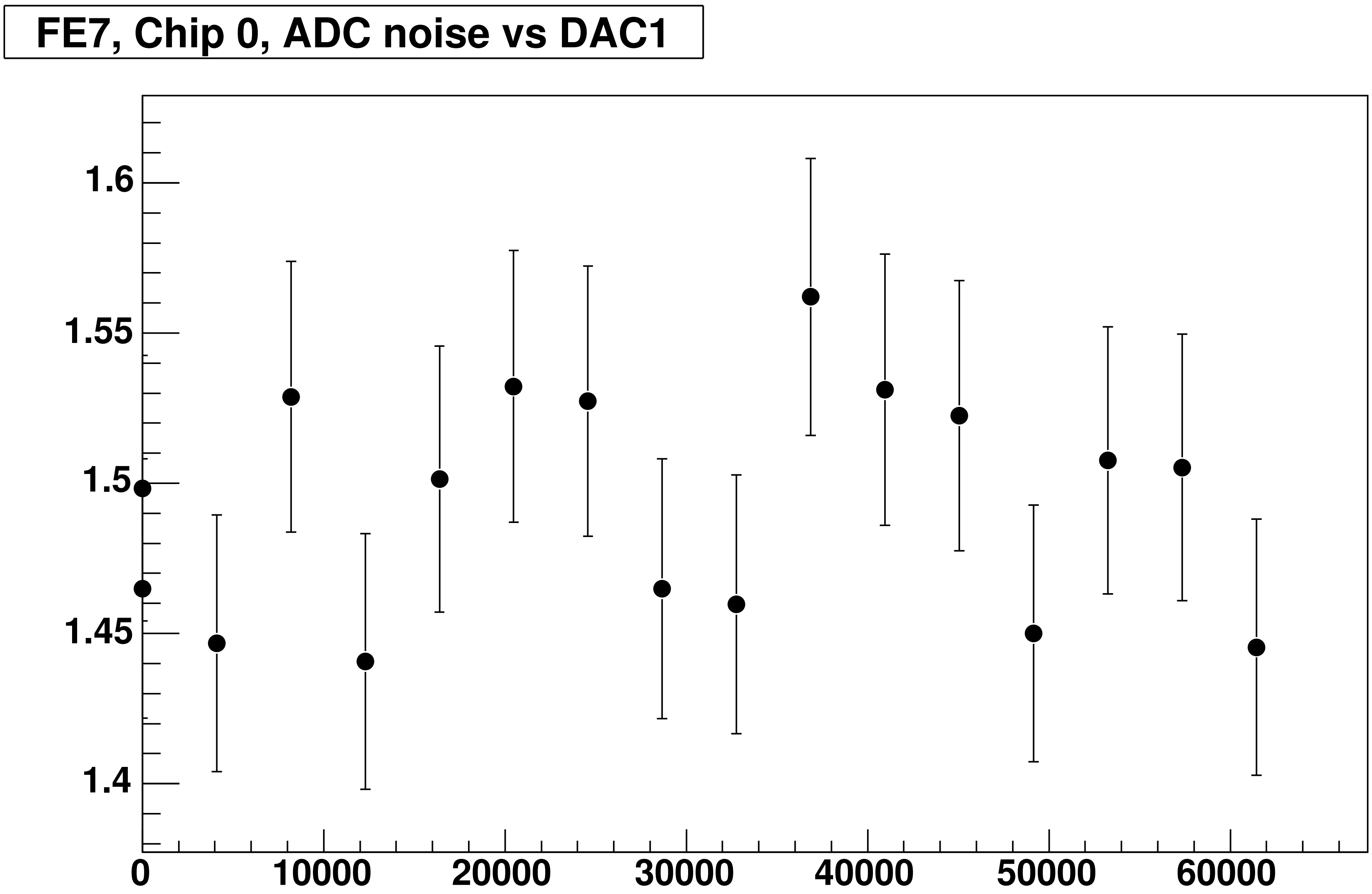

FE7, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1631 / 11
p0 52.84 ± 0.04231
p1 0.4501 ± 1.38e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

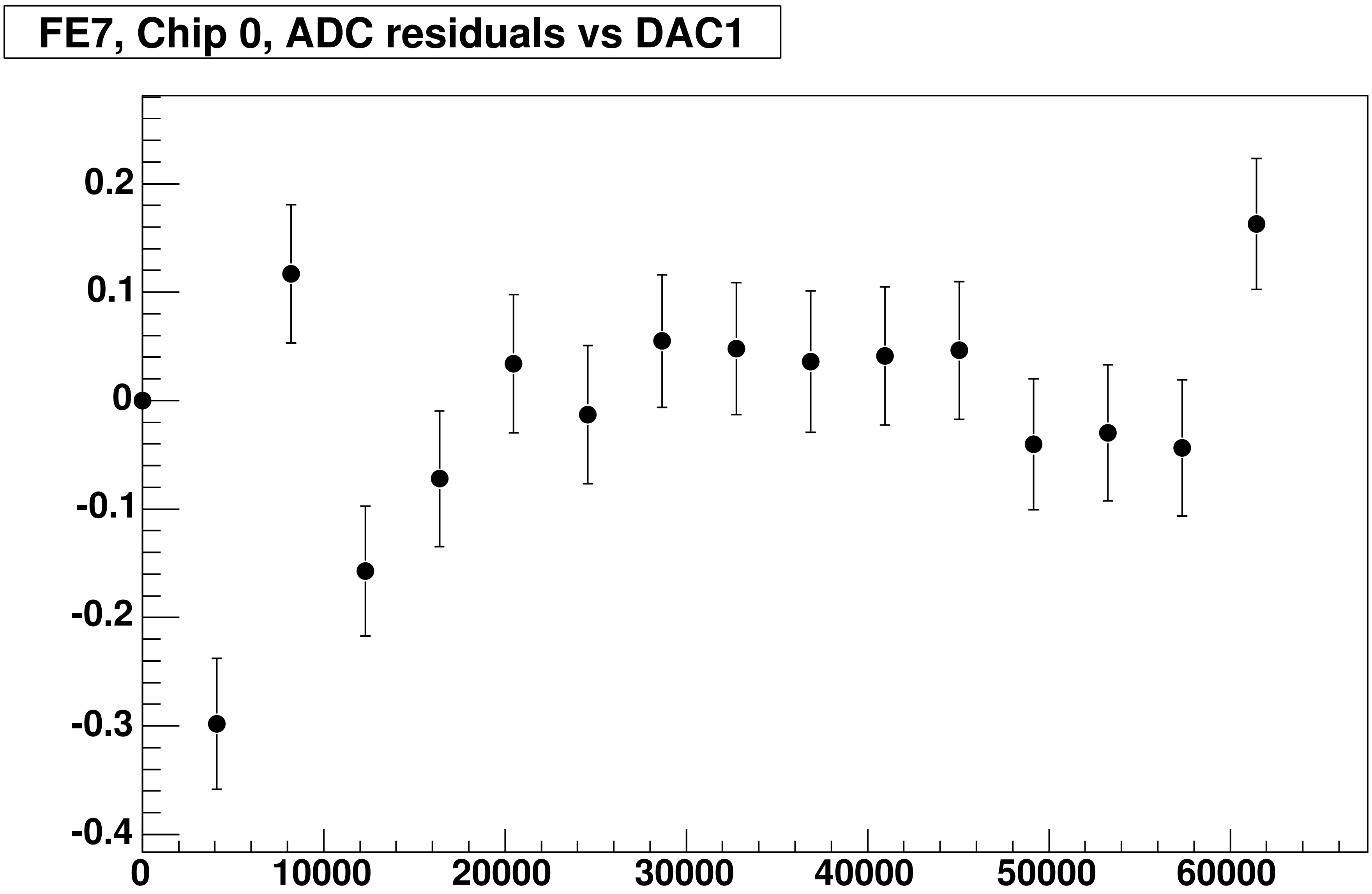

FE7, Chip 0, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

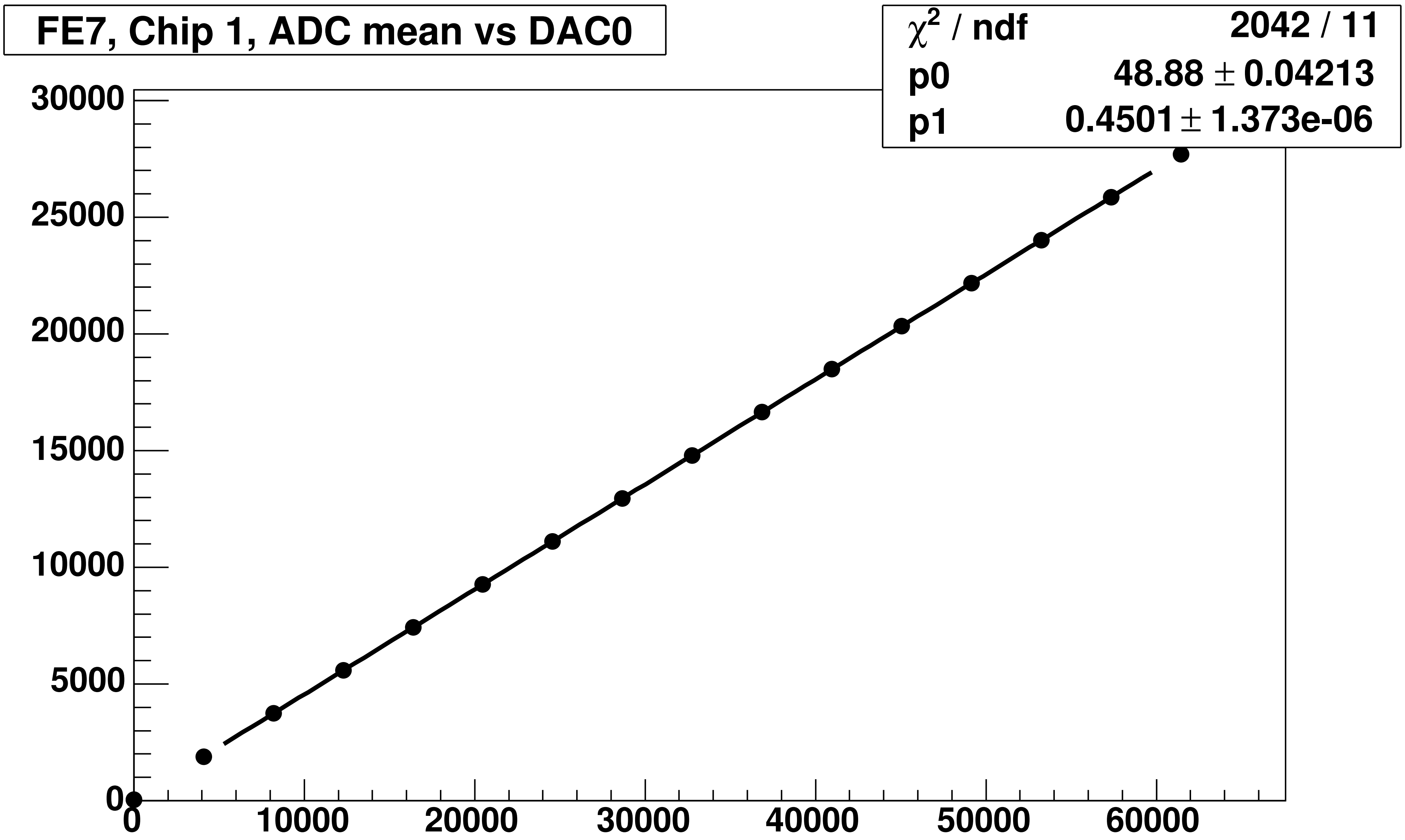

FE7, Chip 0, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

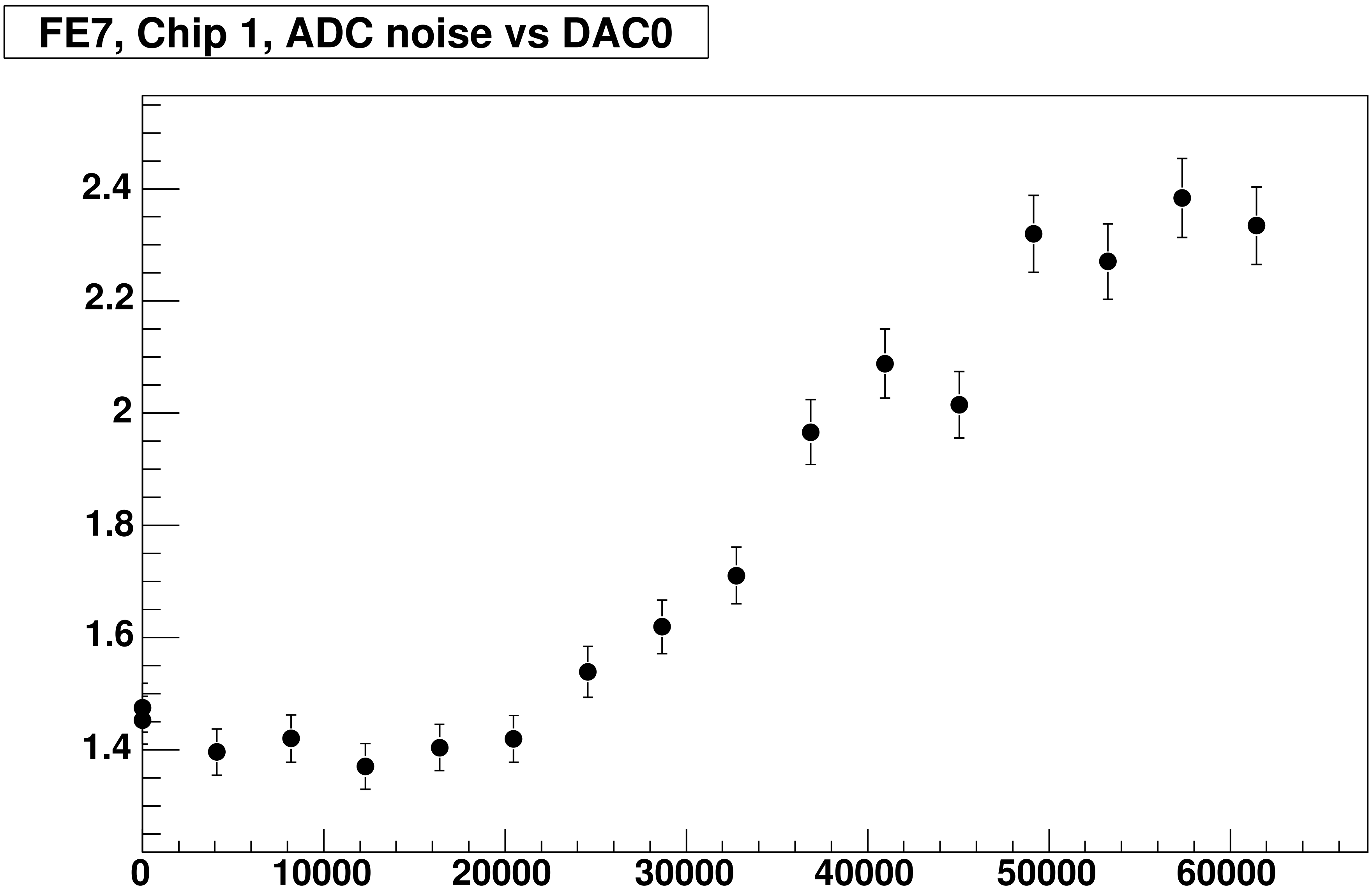


FE7, Chip 0, ADC mean vs DAC1
χ^2 / ndf 15.73 / 11
p0 50.39 ± 0.04086
p1 -2.558e-06 ± 1.13e-06
50.5
50.4
50.3
50.2
50.1
50
0
10000
20000
30000
40000
50000
60000

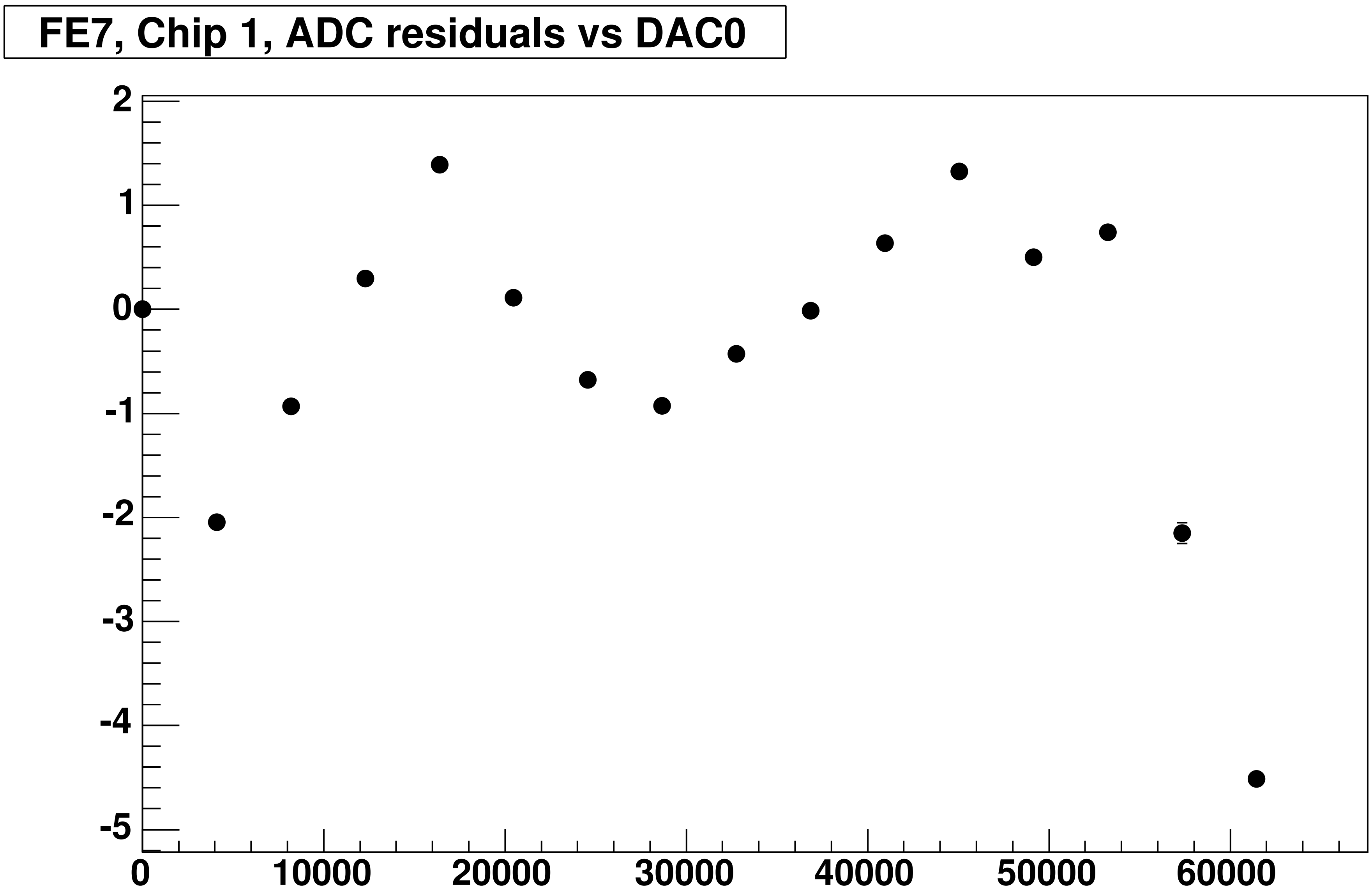

FE7, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

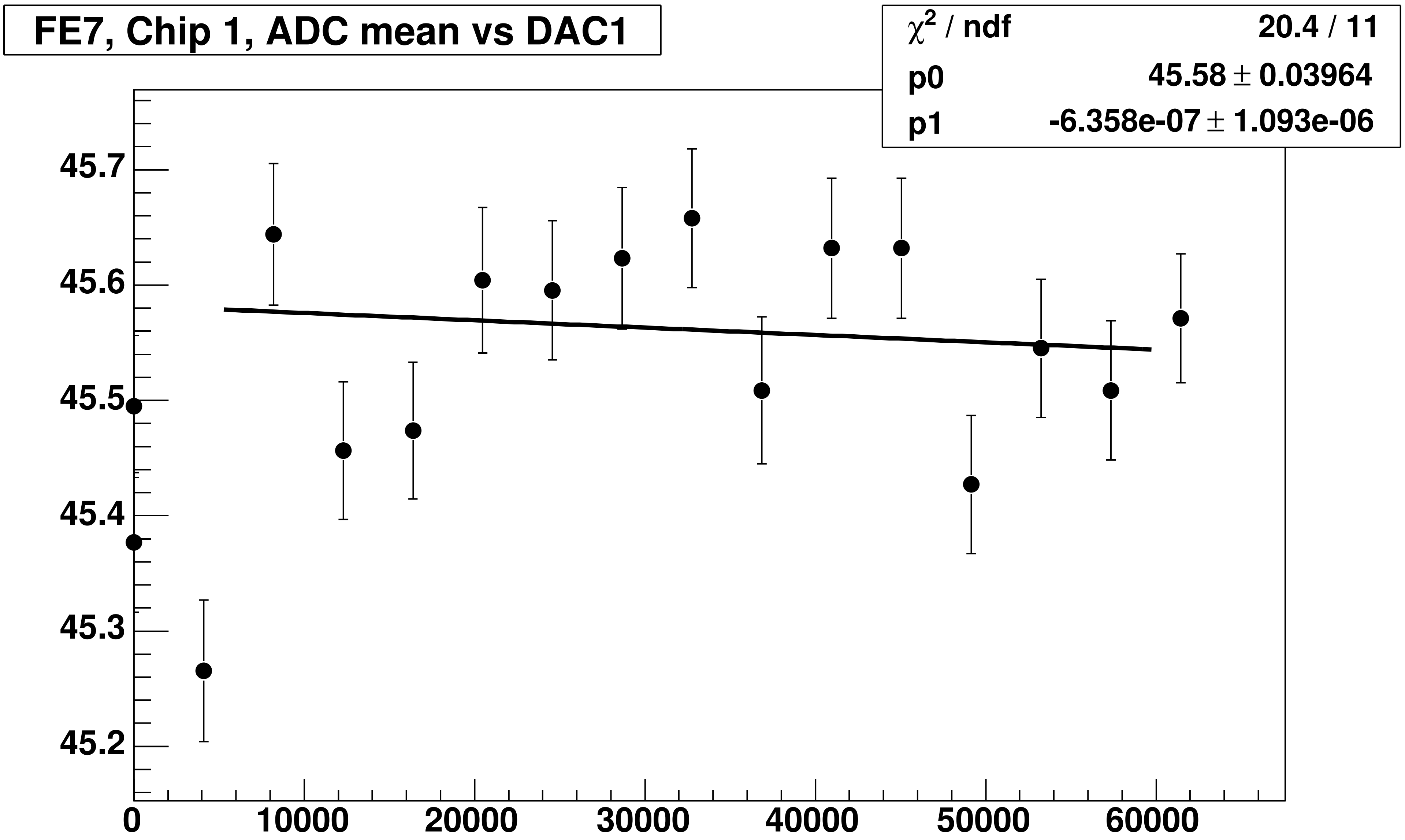

FE7, Chip 0, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000


FE7, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2042 / 11
p0 48.88 ± 0.04213
p1 0.4501 ± 1.373e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

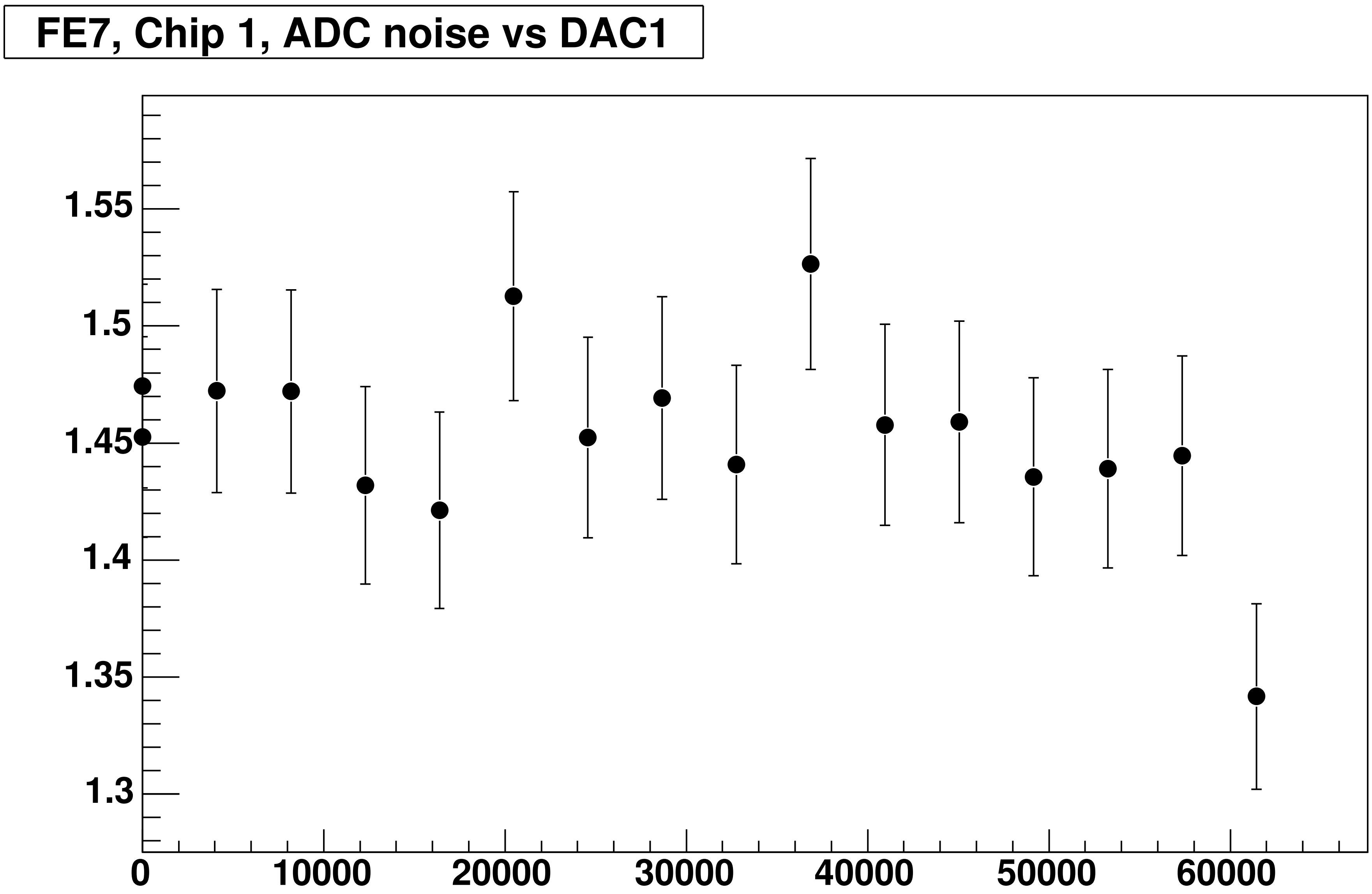


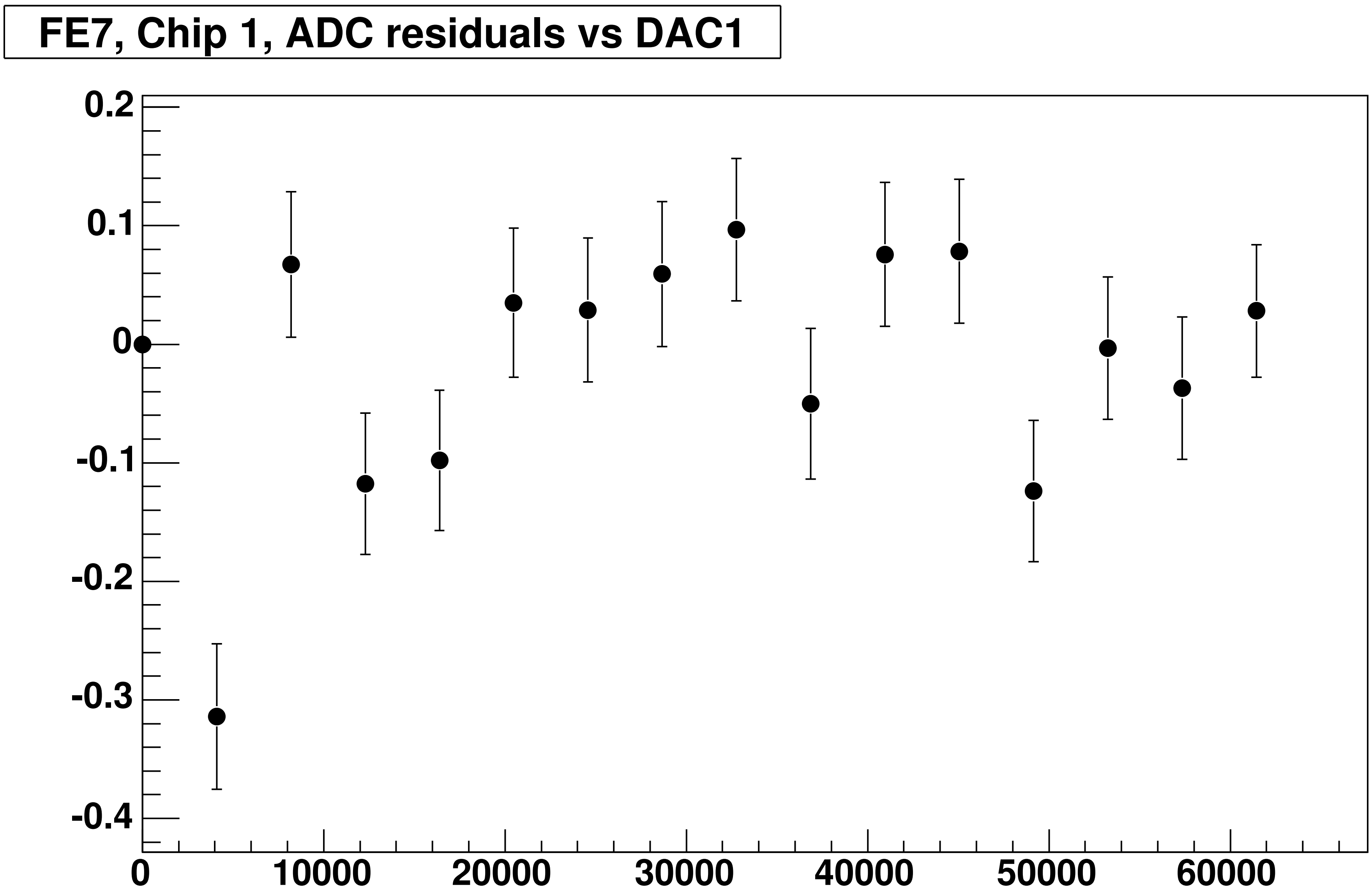
FE7, Chip 1, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

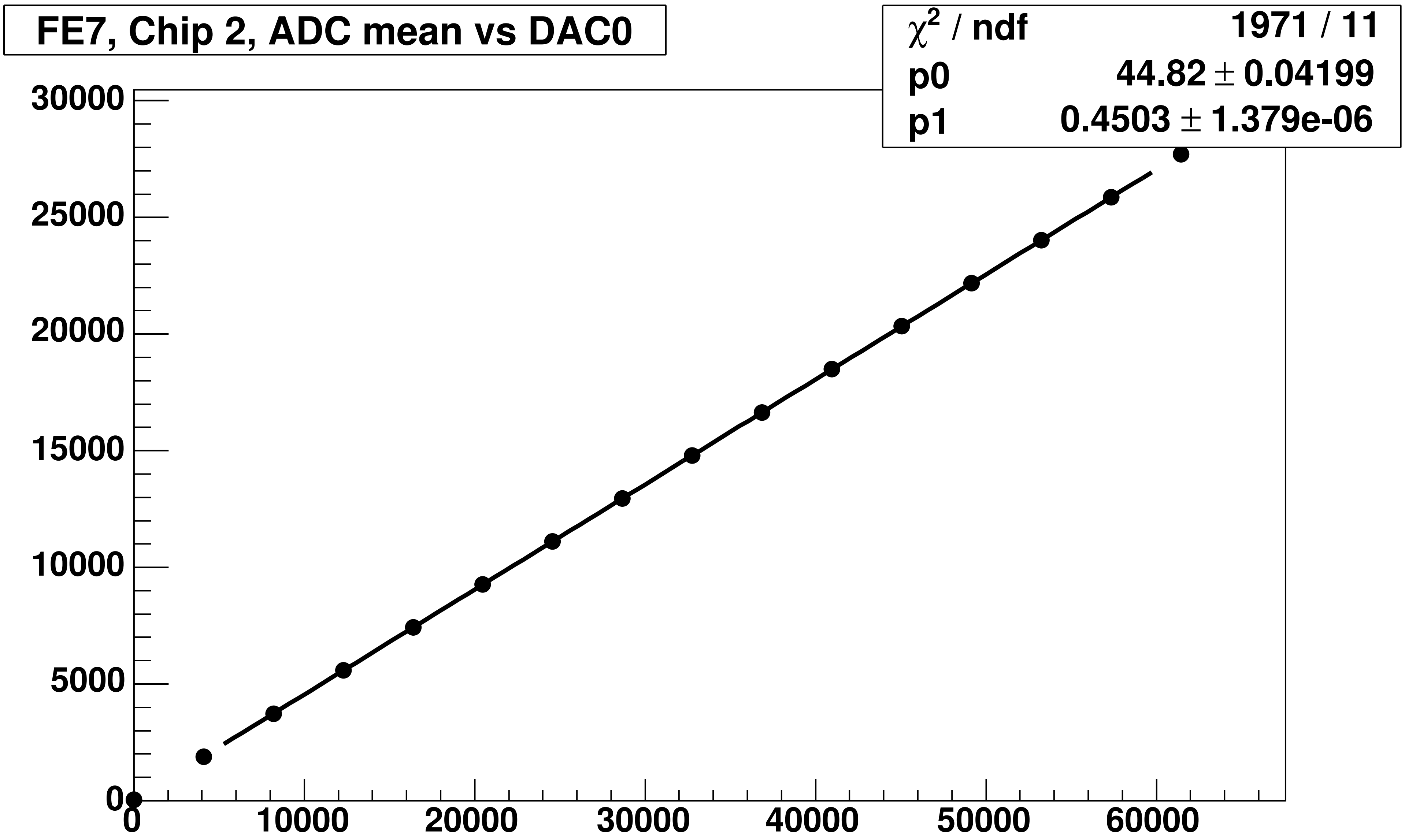

FE7, Chip 1, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

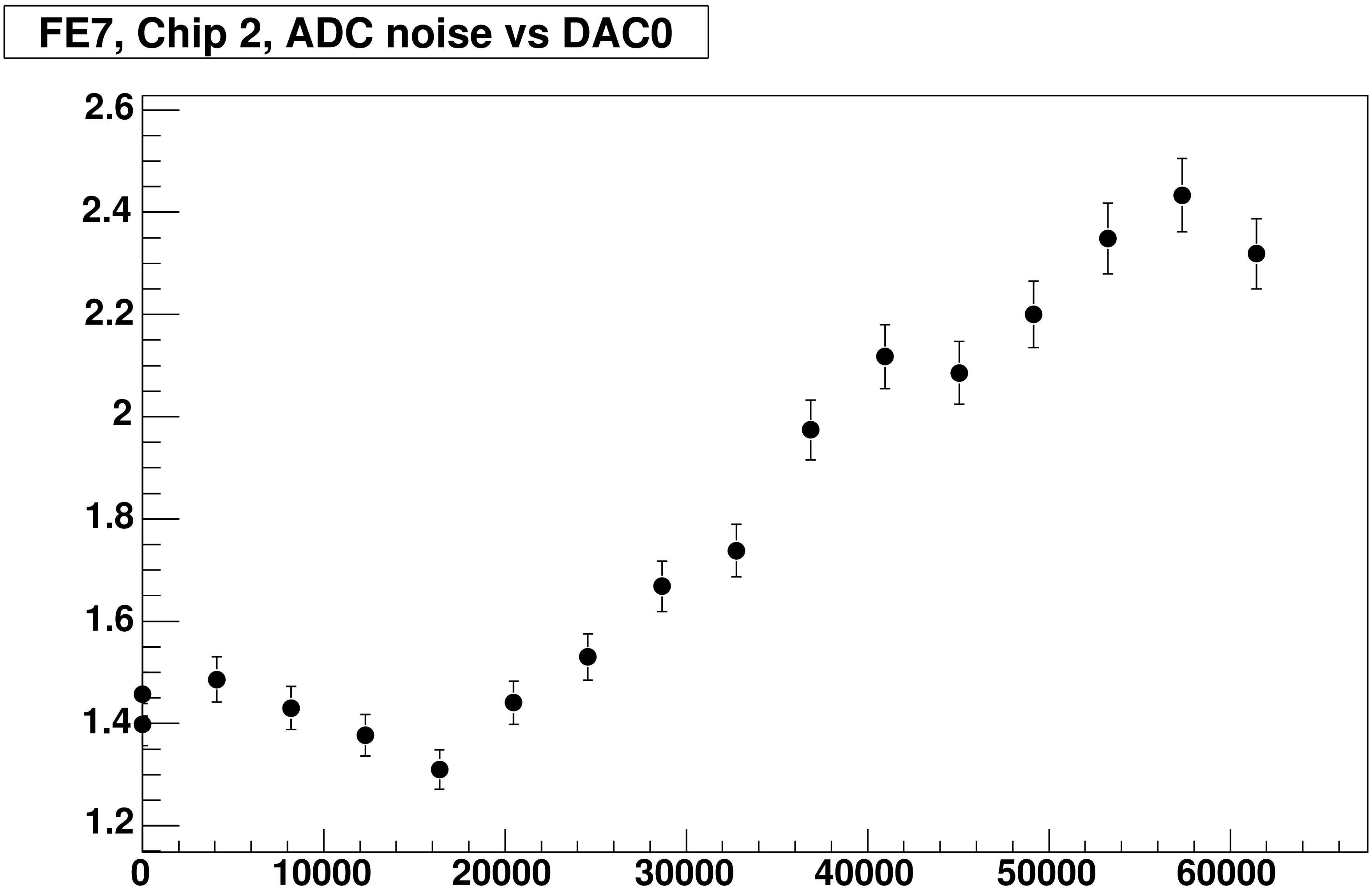


FE7, Chip 1, ADC mean vs DAC1
χ^2 / ndf 20.4 / 11
p0 45.58 ± 0.03964
p1 -6.358e-07 ± 1.093e-06
45.7
45.6
45.5
45.4
45.3
45.2
0
10000
20000
30000
40000
50000
60000

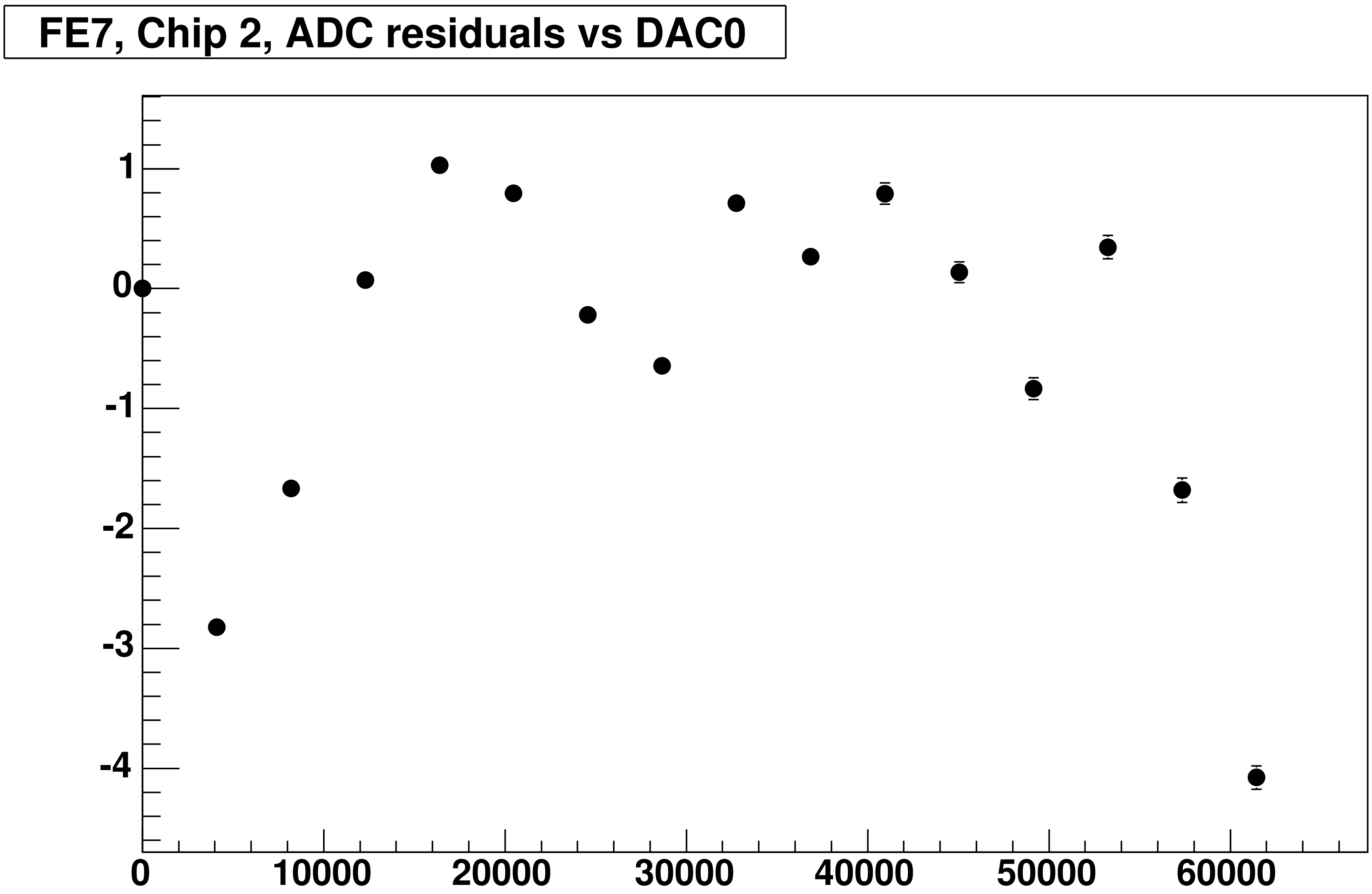

FE7, Chip 1, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

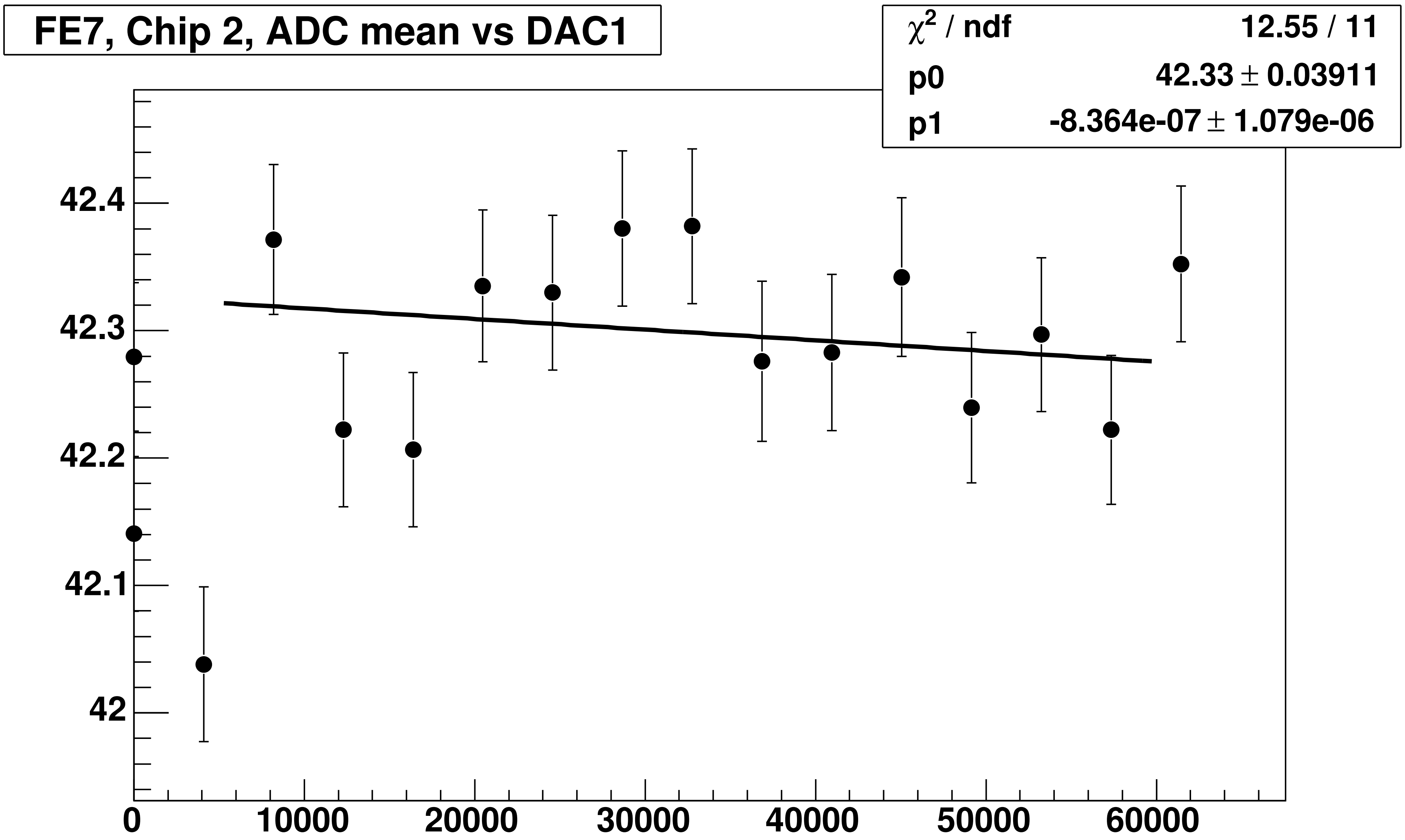

FE7, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000


FE7, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1971 / 11
p0 44.82 ± 0.04199
p1 0.4503 ± 1.379e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

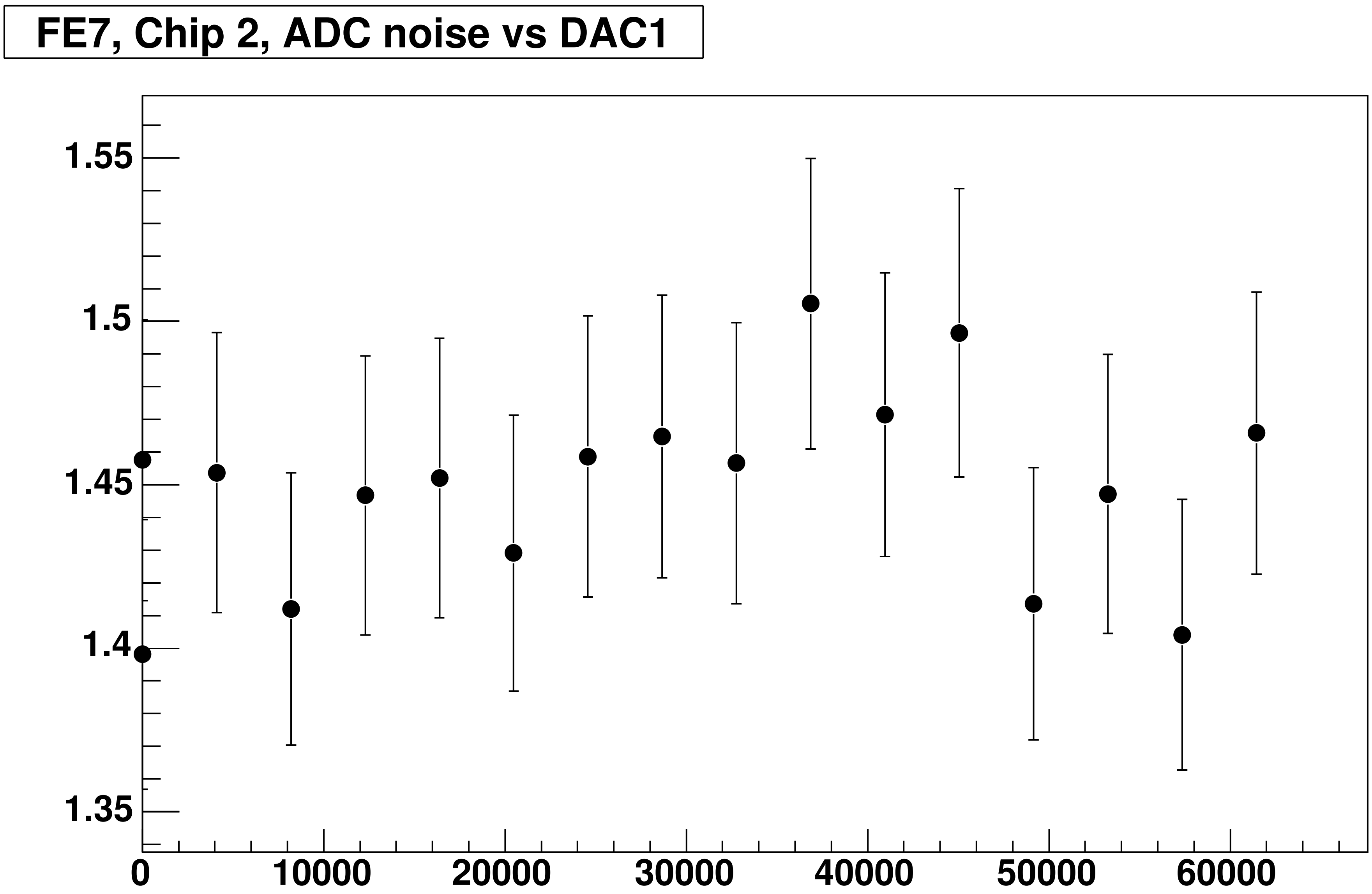


FE7, Chip 2, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 2, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

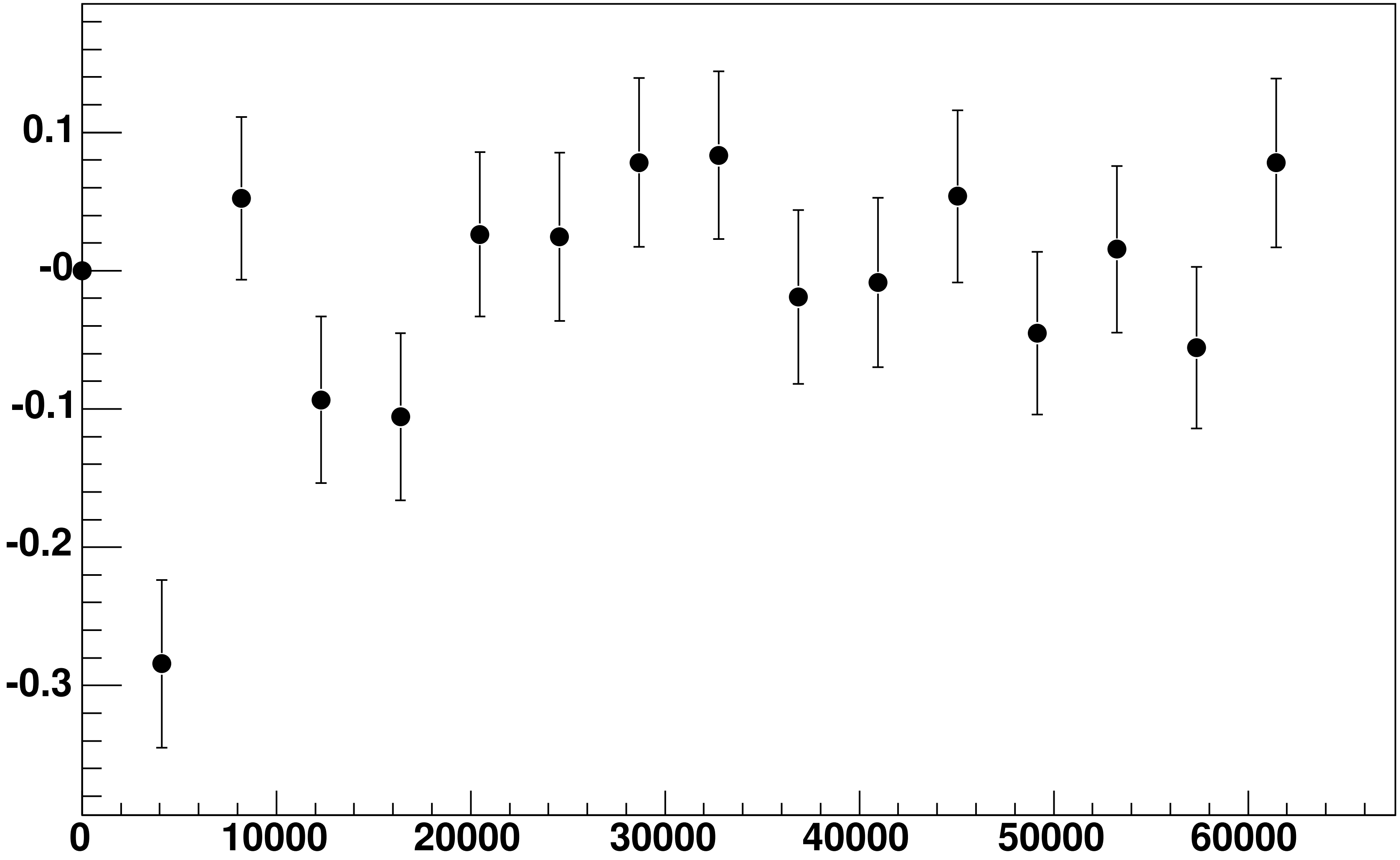


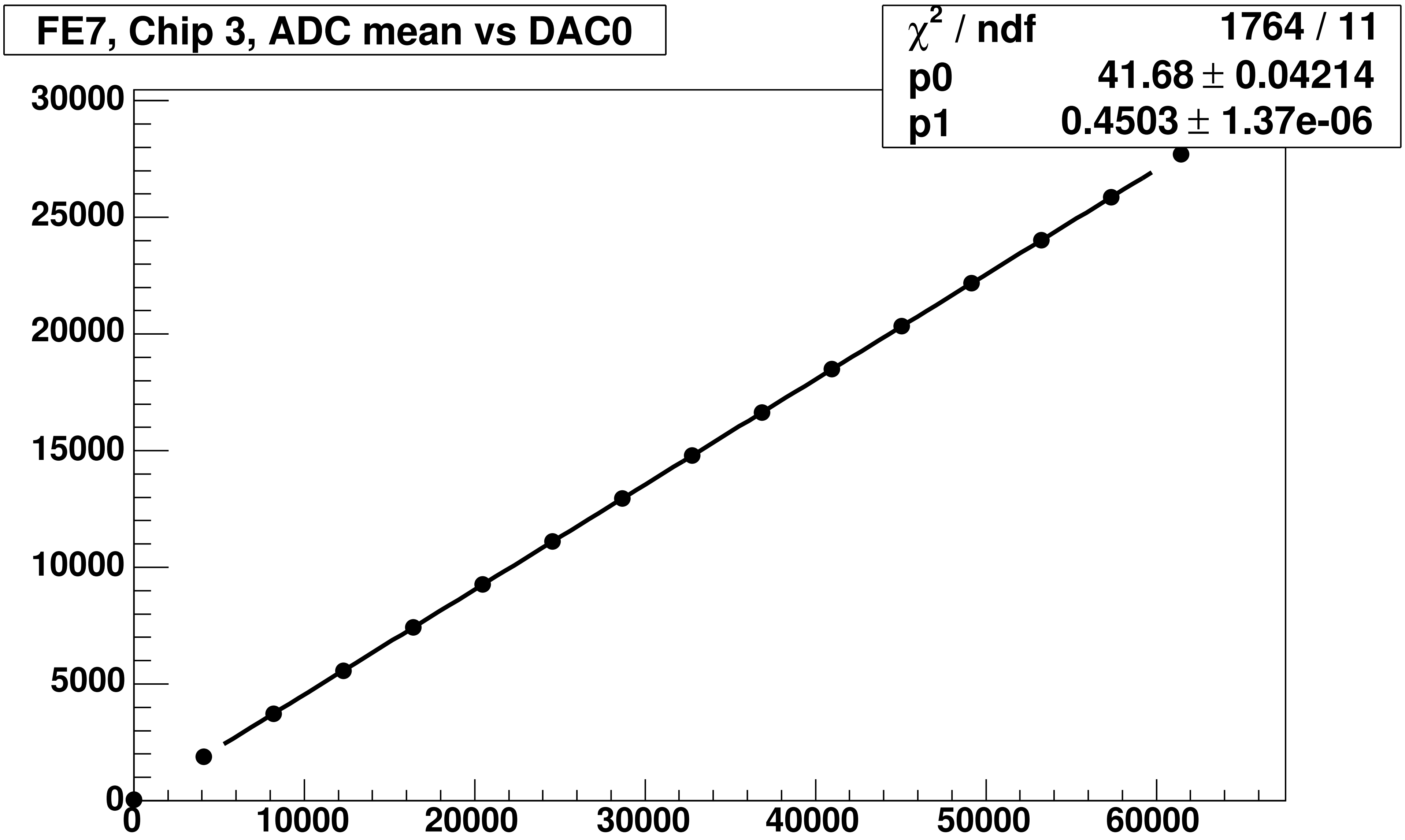
FE7, Chip 2, ADC mean vs DAC1
χ^2 / ndf 12.55 / 11
p0 42.33 ± 0.03911
p1 -8.364e-07 ± 1.079e-06
42.4
42.3
42.2
42.1
42
0
10000
20000
30000
40000
50000
60000

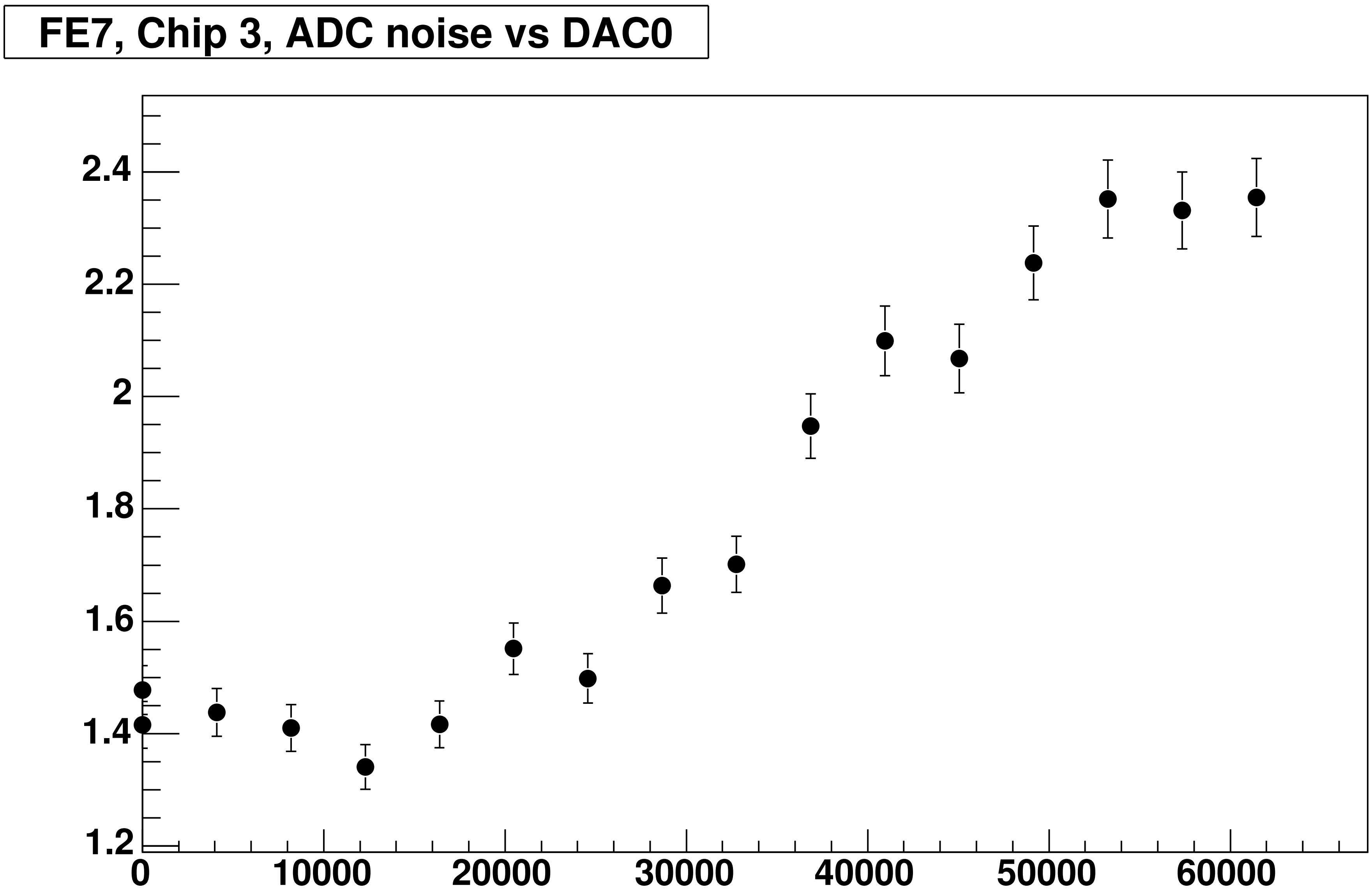


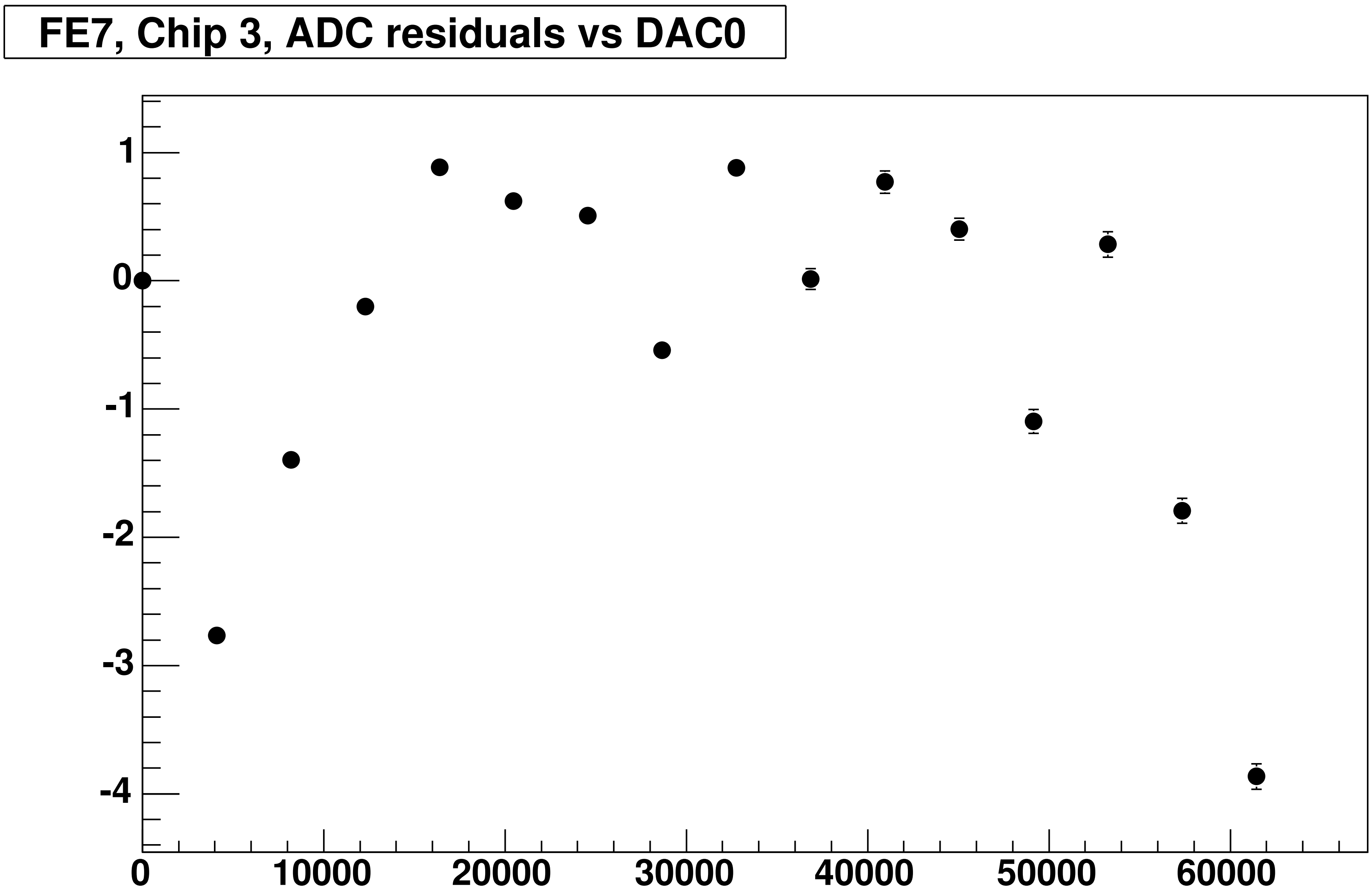
FE7, Chip 2, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

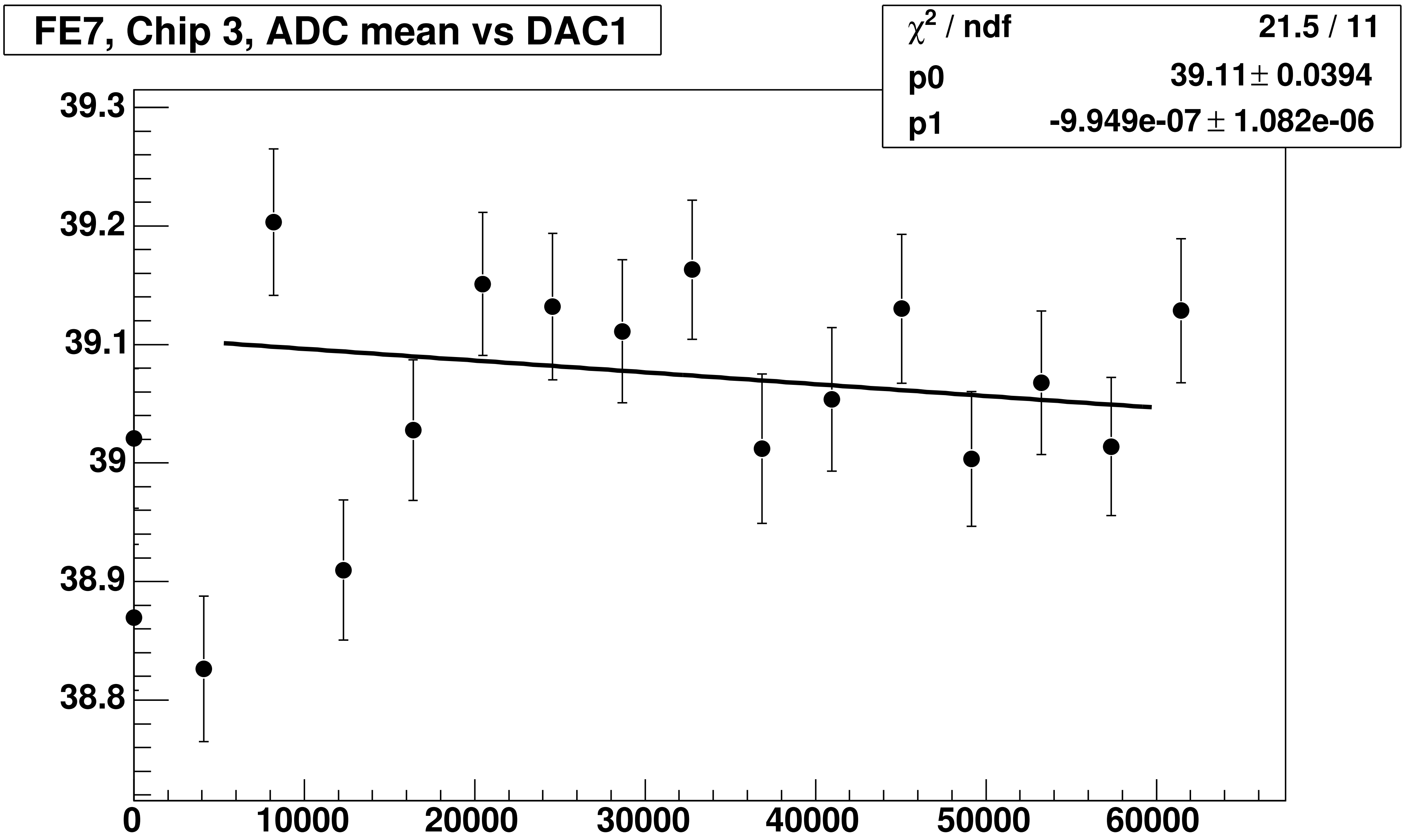
FE7, Chip 2, ADC residuals vs DAC1

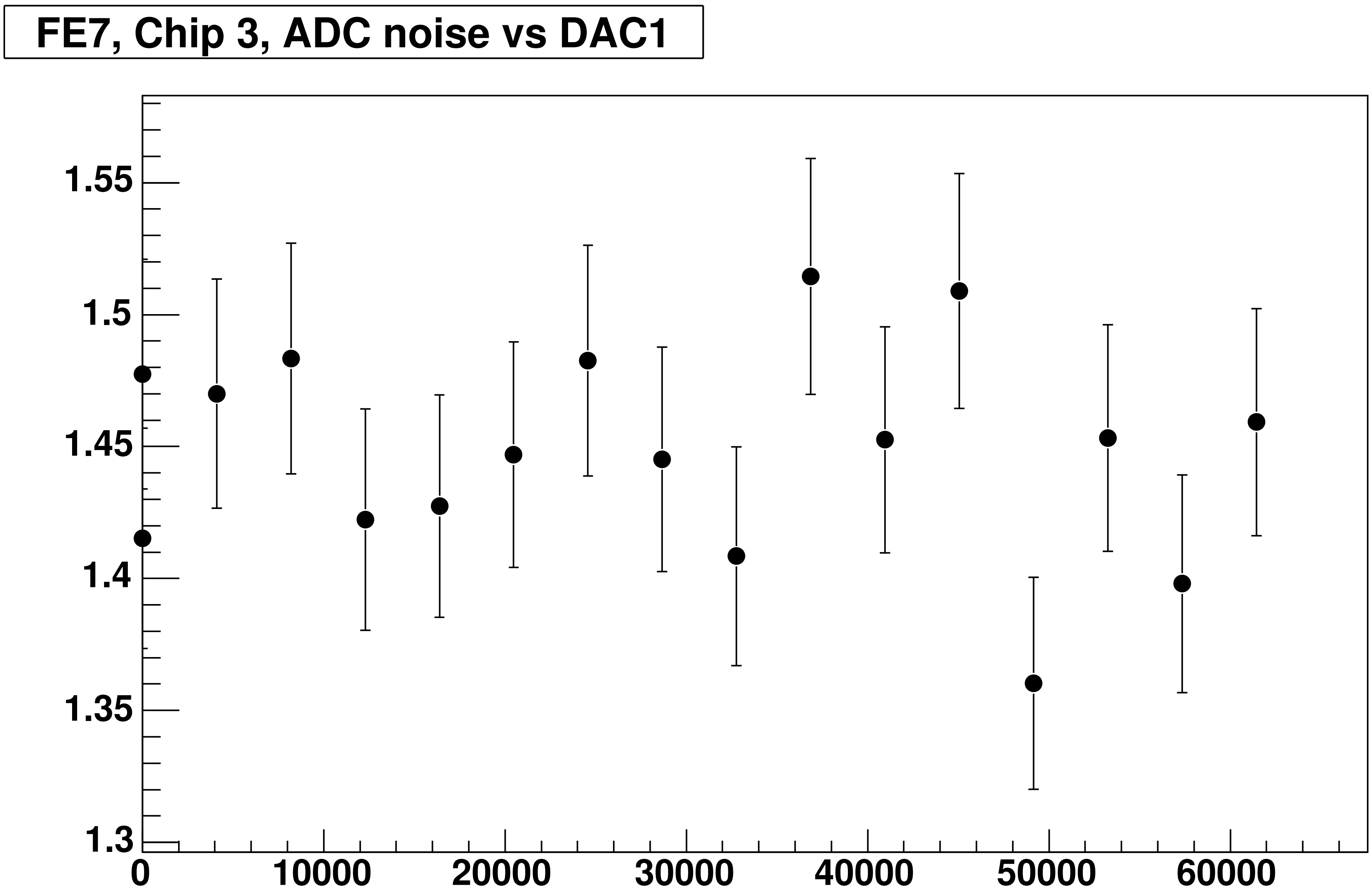


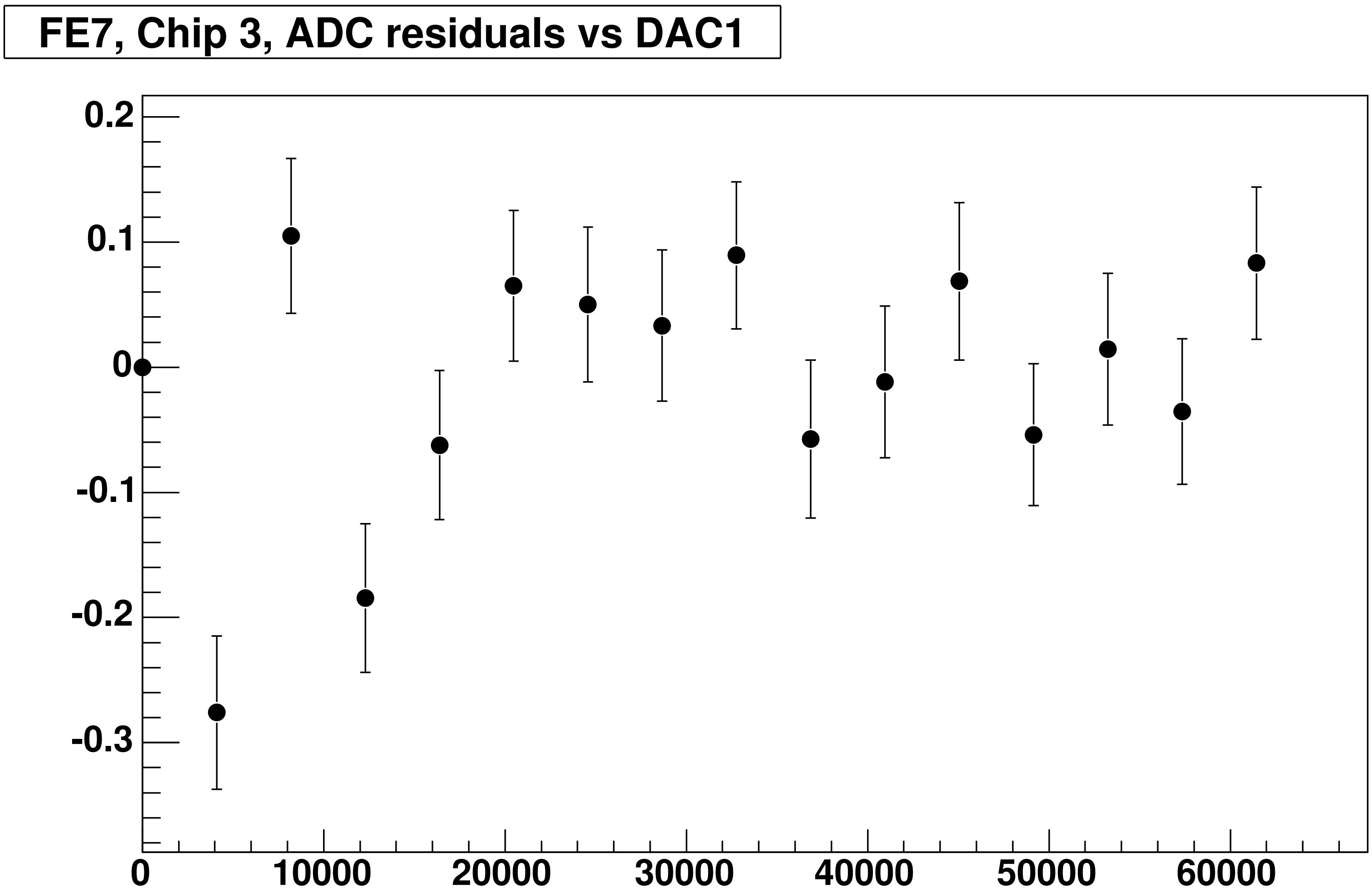

FE7, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1764 / 11
p0 41.68 ± 0.04214
p1 0.4503 ± 1.37e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 3, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

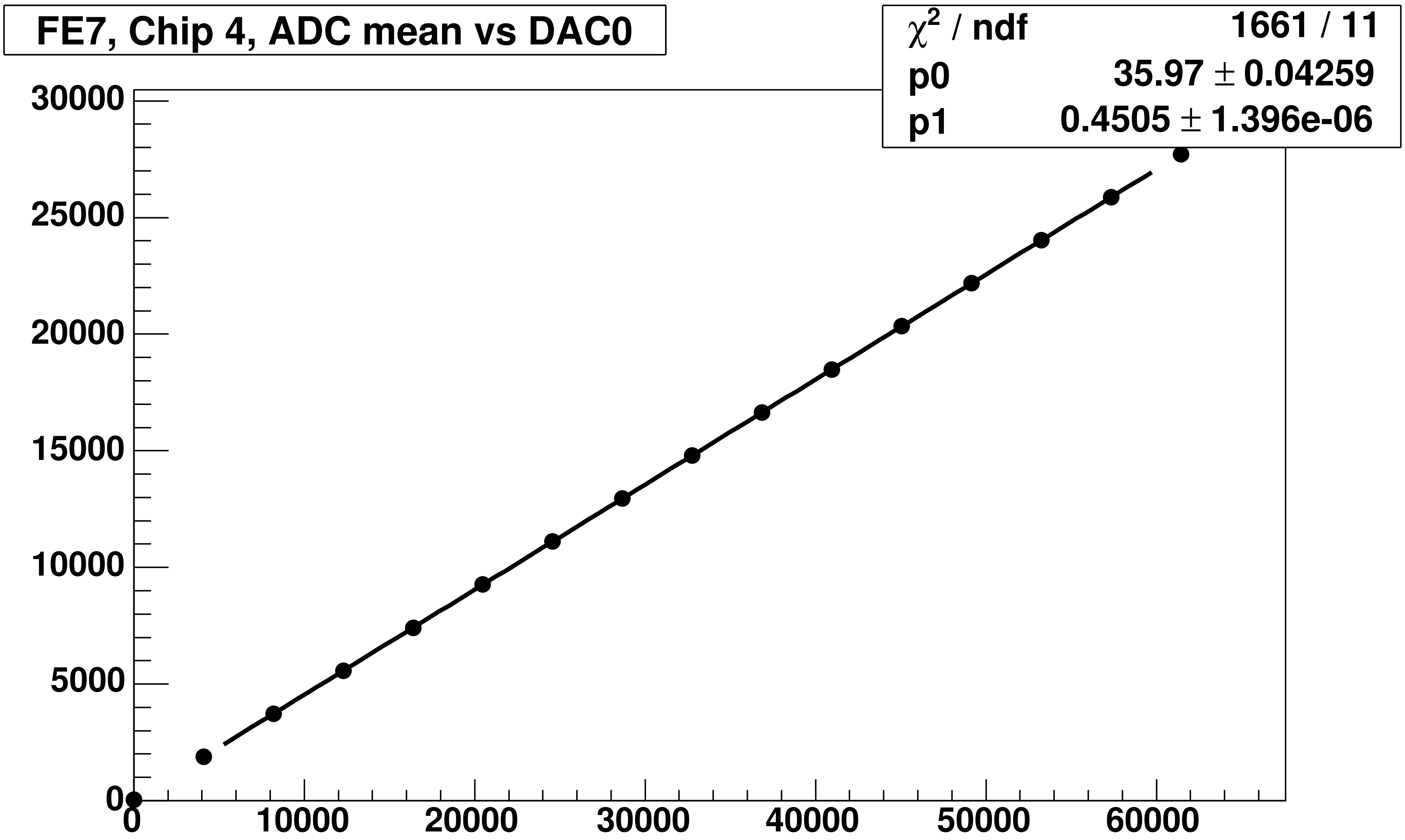

FE7, Chip 3, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000


FE7, Chip 3, ADC mean vs DAC1
χ2 / ndf 21.5 / 11
p0 39.11 ± 0.0394
p1 -9.949e-07 ± 1.082e-06
39.3
39.2
39.1
39
38.9
38.8
0
10000
20000
30000
40000
50000
60000

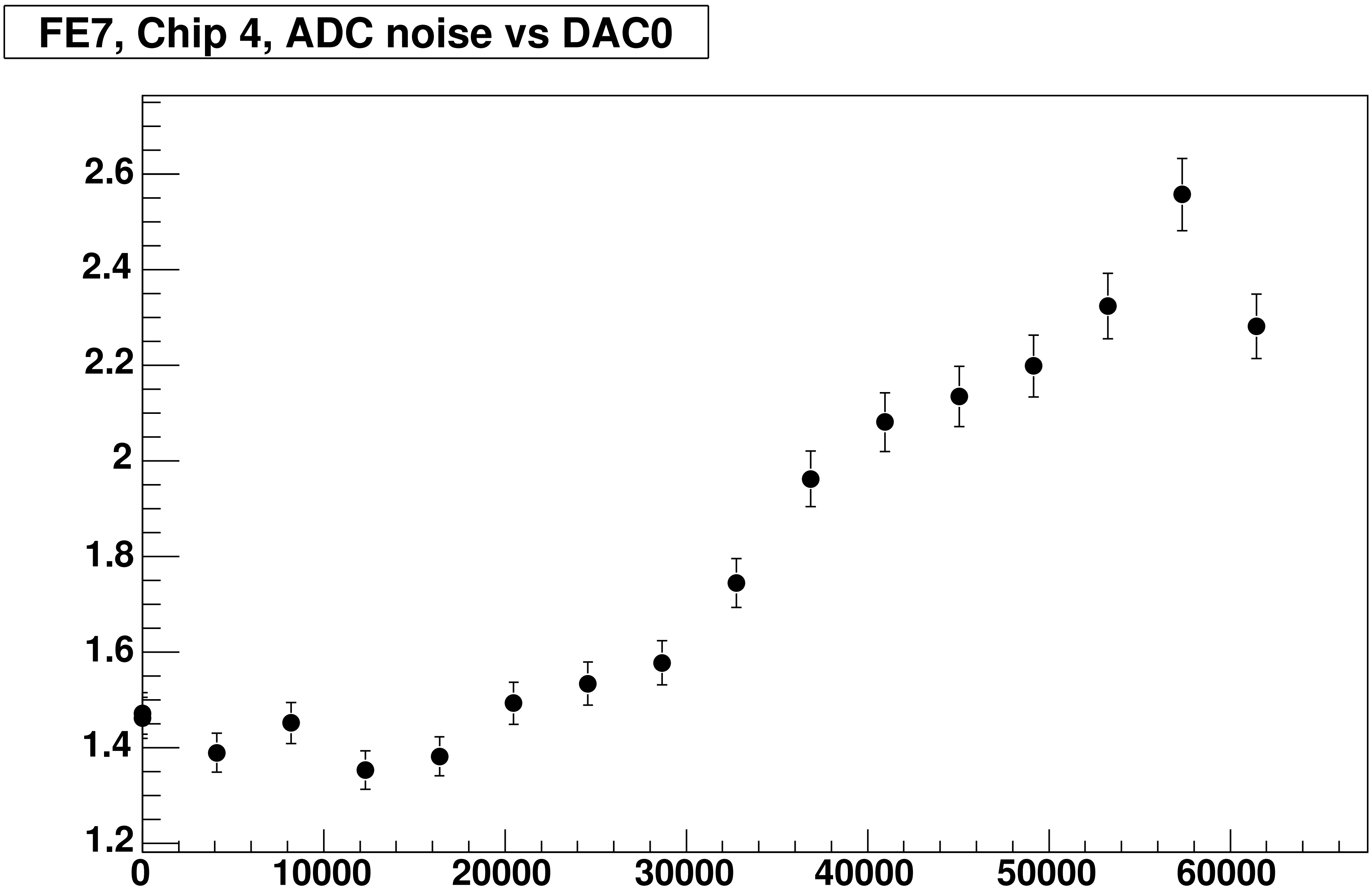

FE7, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

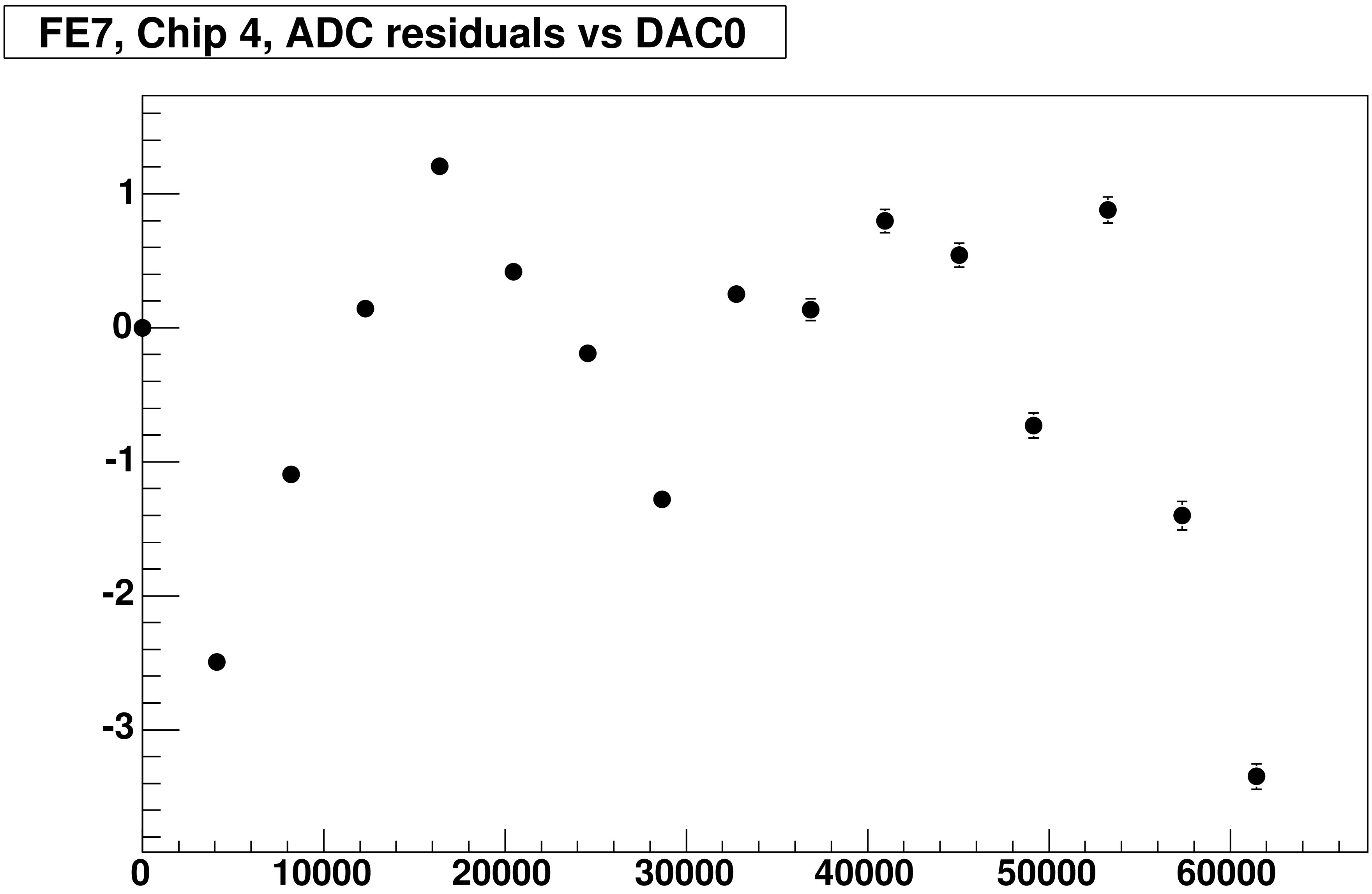


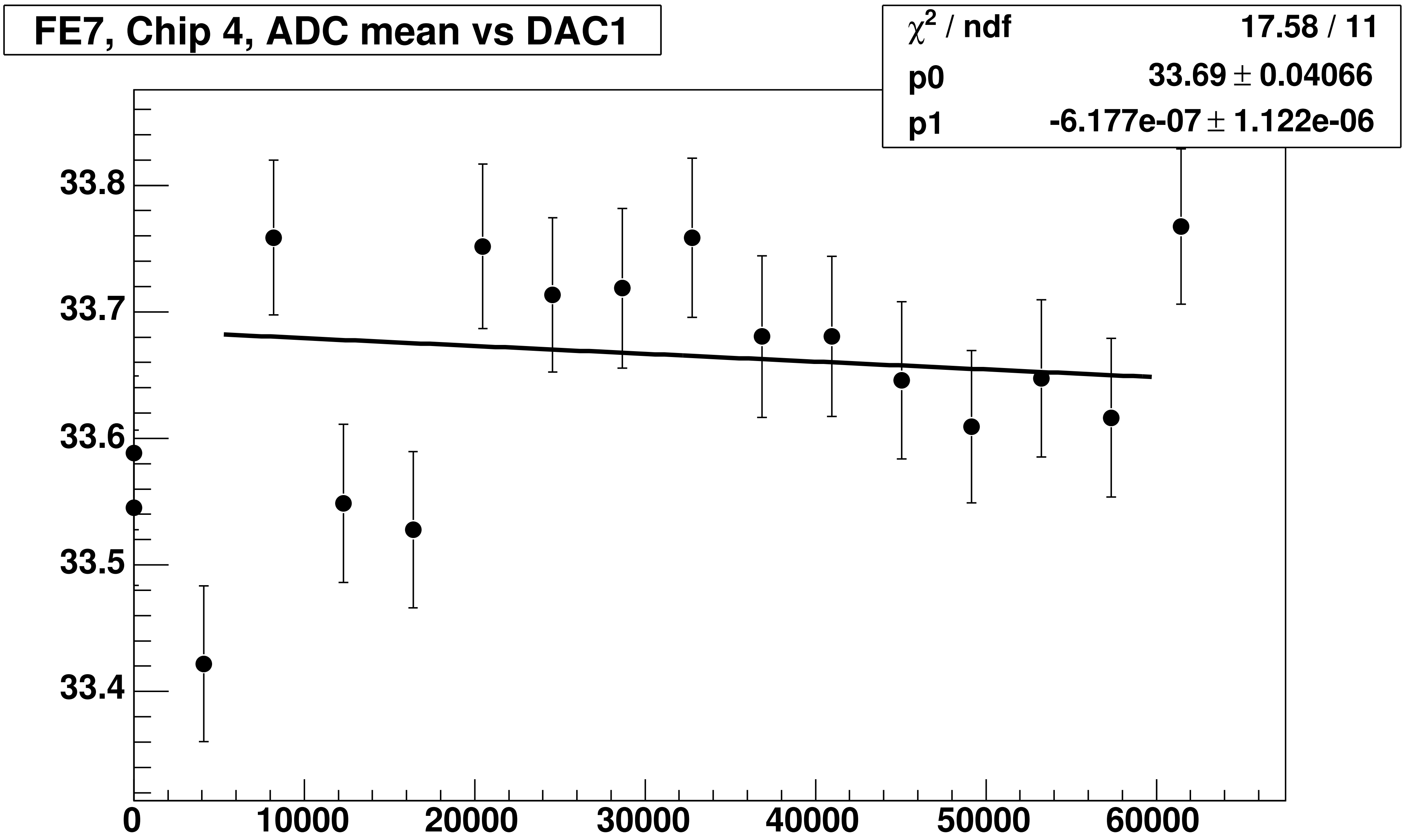
FE7, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

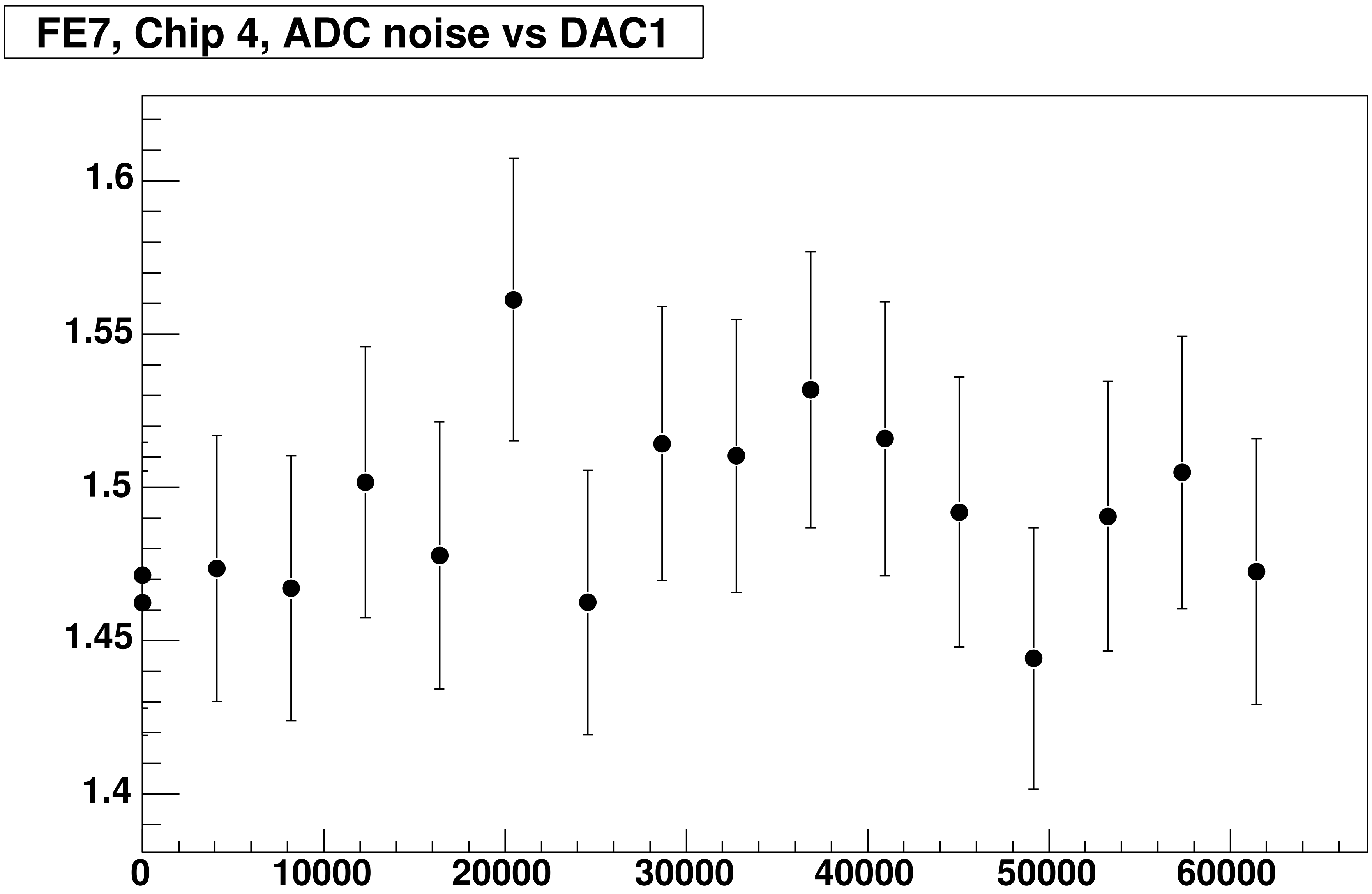


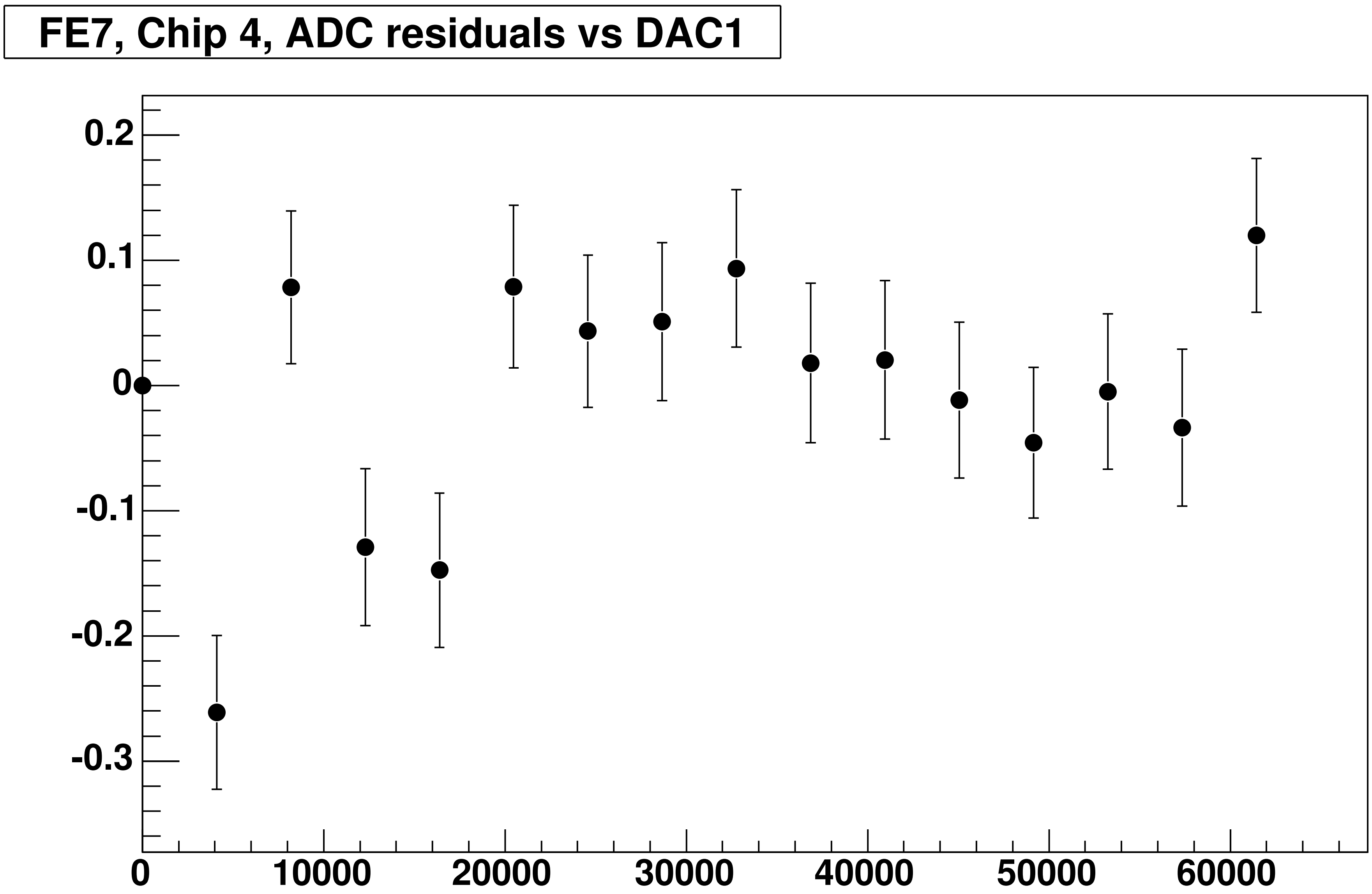
FE7, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1661 / 11
p0 35.97 ± 0.04259
p1 0.4505 ± 1.396e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

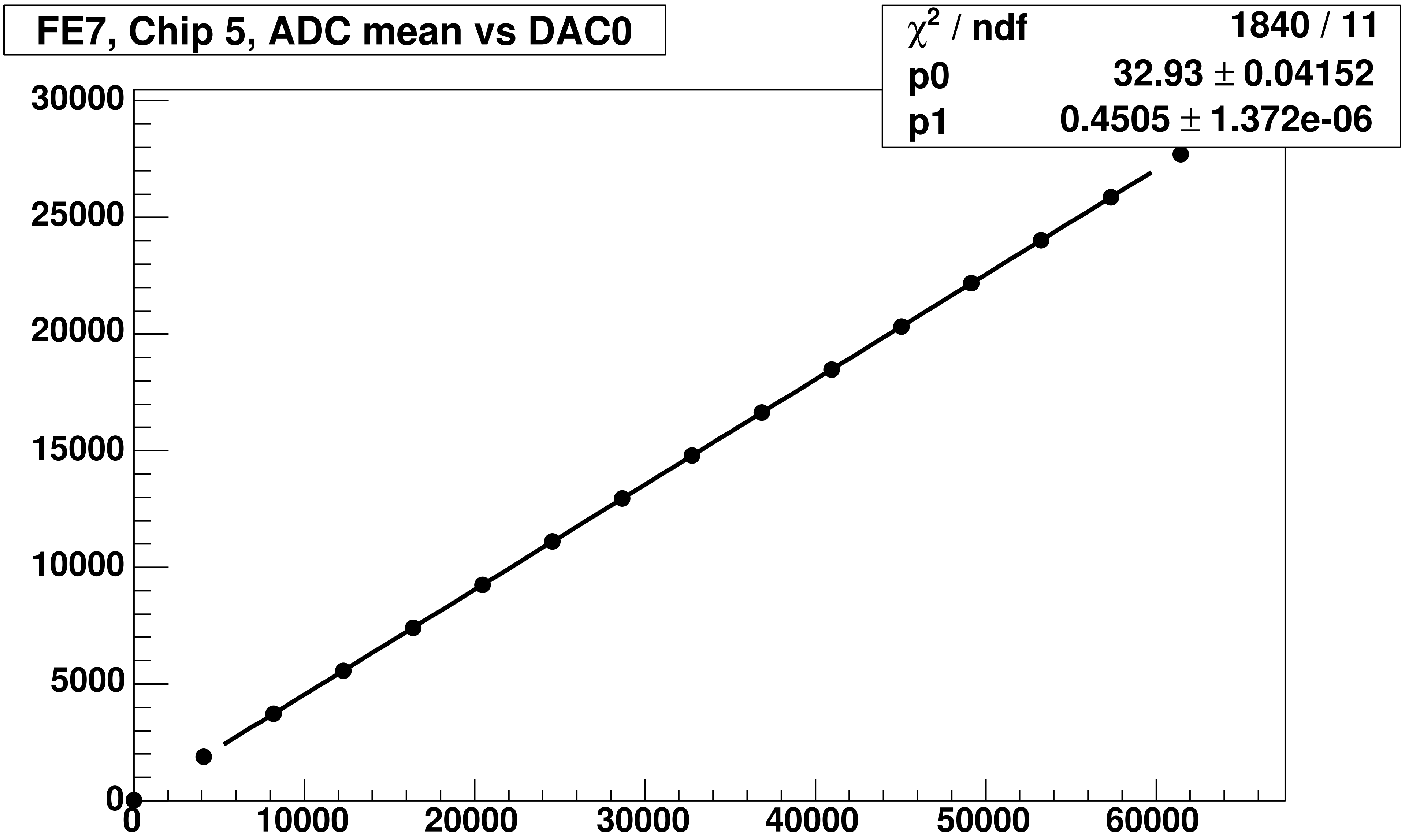

FE7, Chip 4, ADC residuals vs DAC0
1
0
-1
-2
-3
0
10000
20000
30000
40000
50000
60000

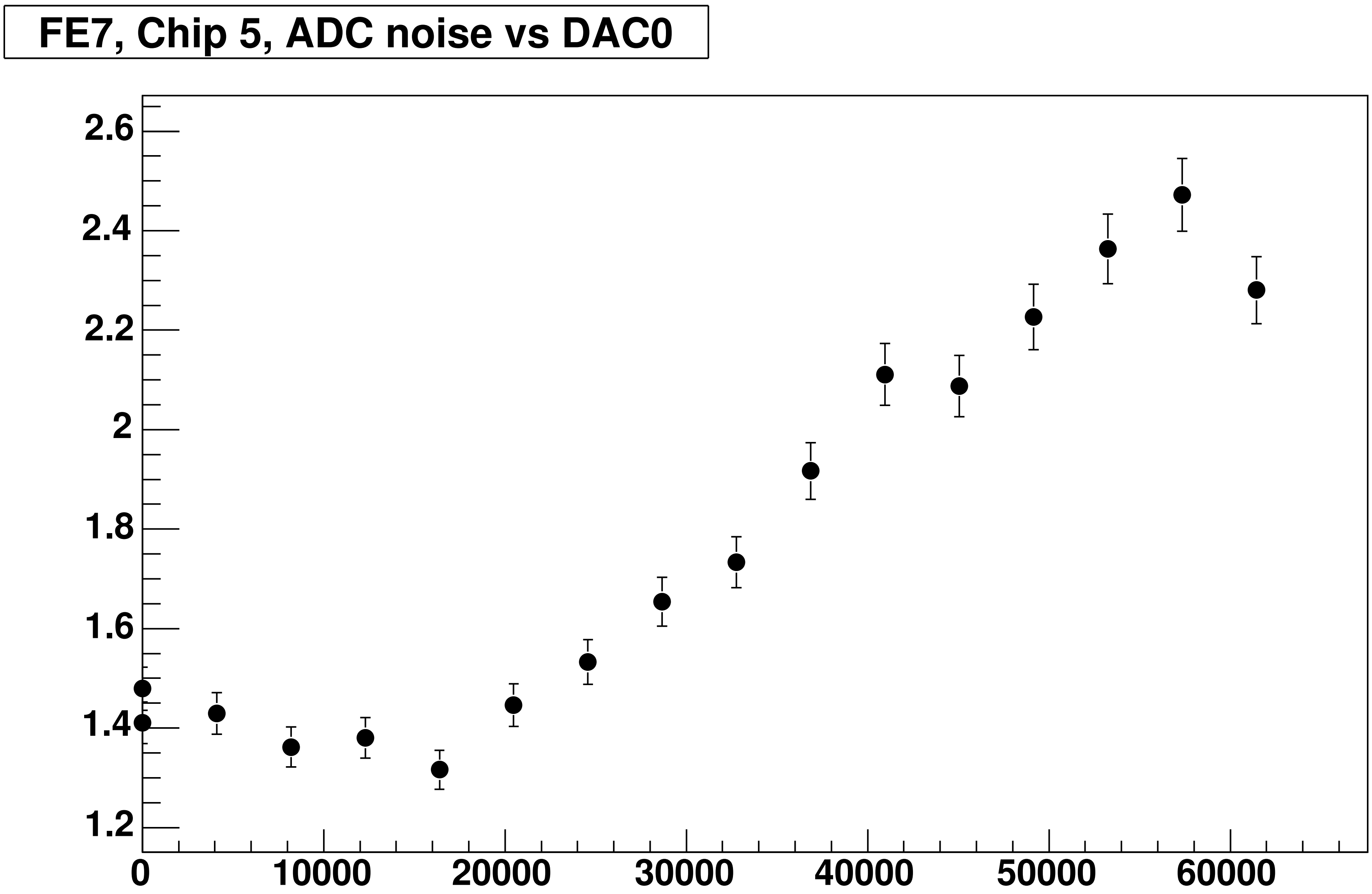

FE7, Chip 4, ADC mean vs DAC1
χ^2 / ndf 17.58 / 11
p0 33.69 ± 0.04066
p1 -6.177e-07 ± 1.122e-06
33.4
33.5
33.6
33.7
33.8
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

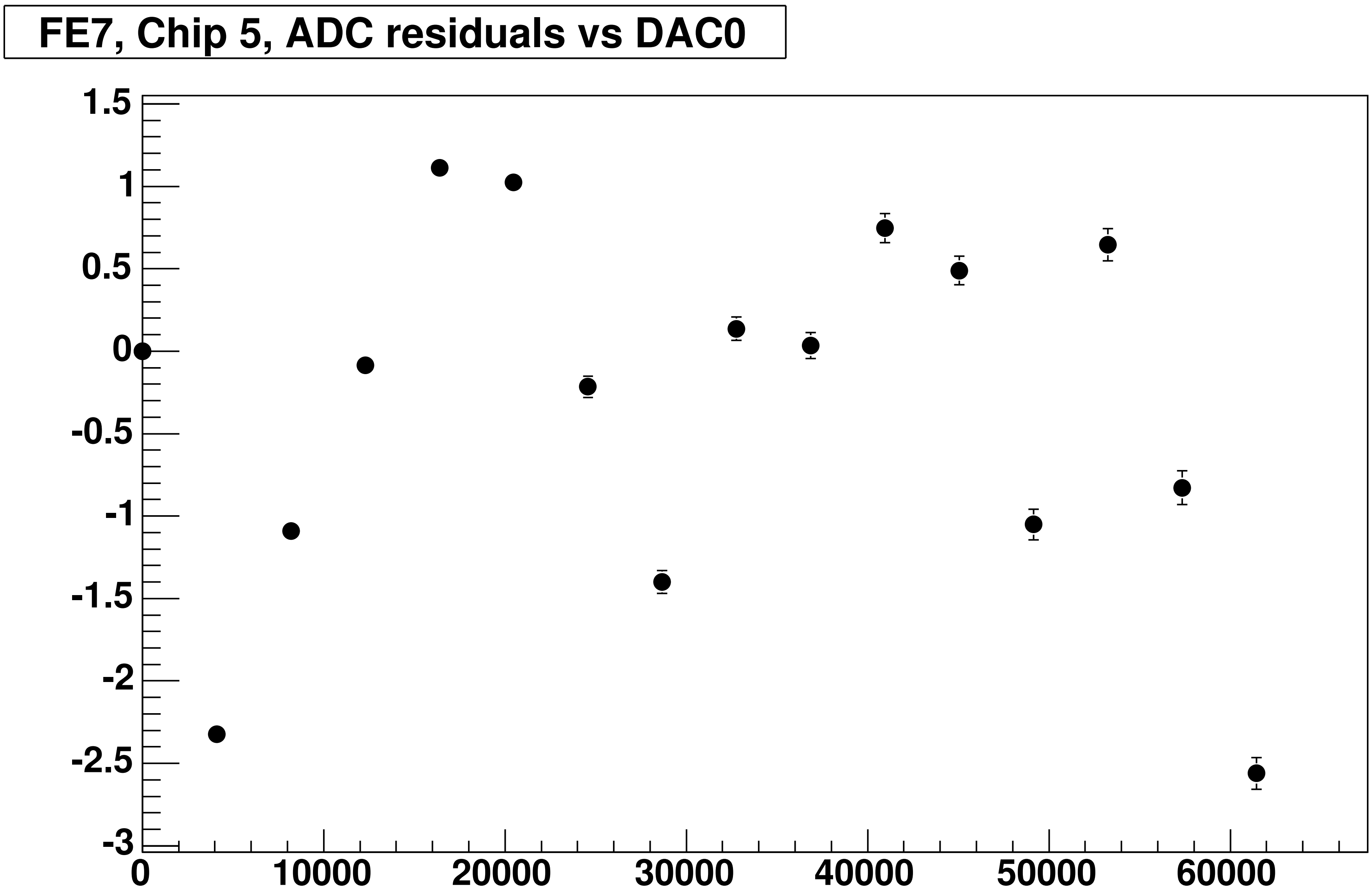


FE7, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

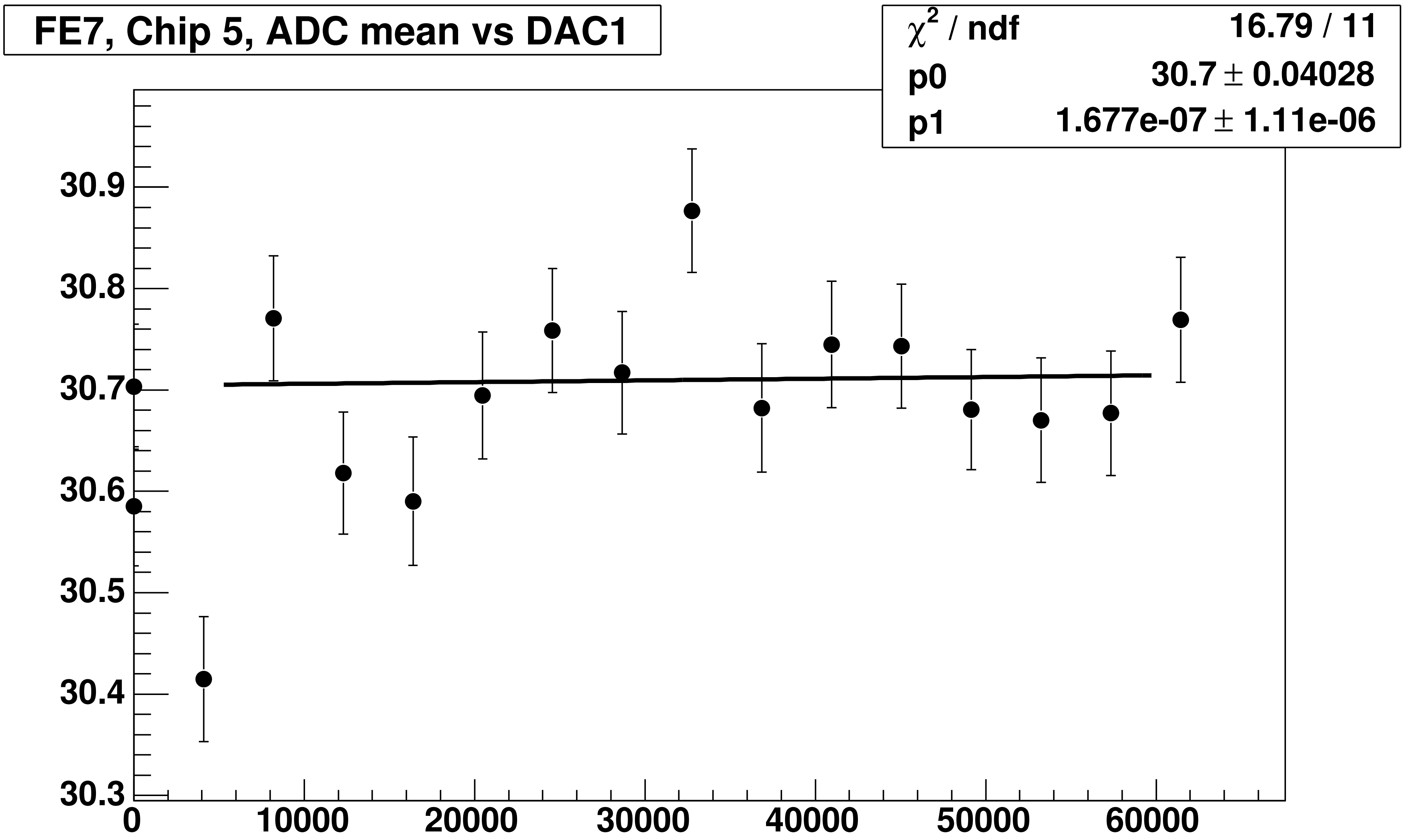

FE7, Chip 5, ADC mean vs DAC0
χ2 / ndf 1840 / 11
p0 32.93 ± 0.04152
p1 0.4505 ± 1.372e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

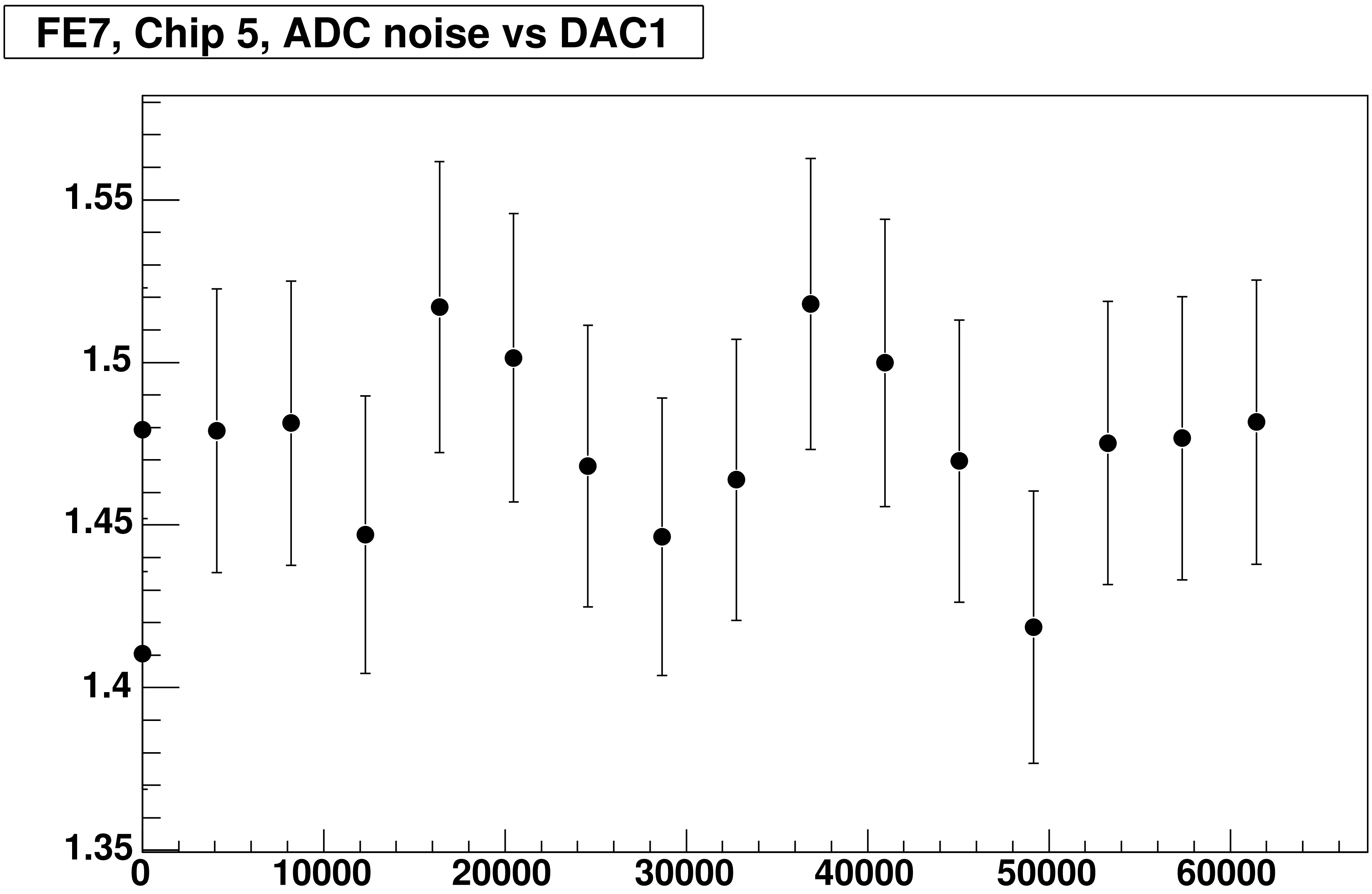


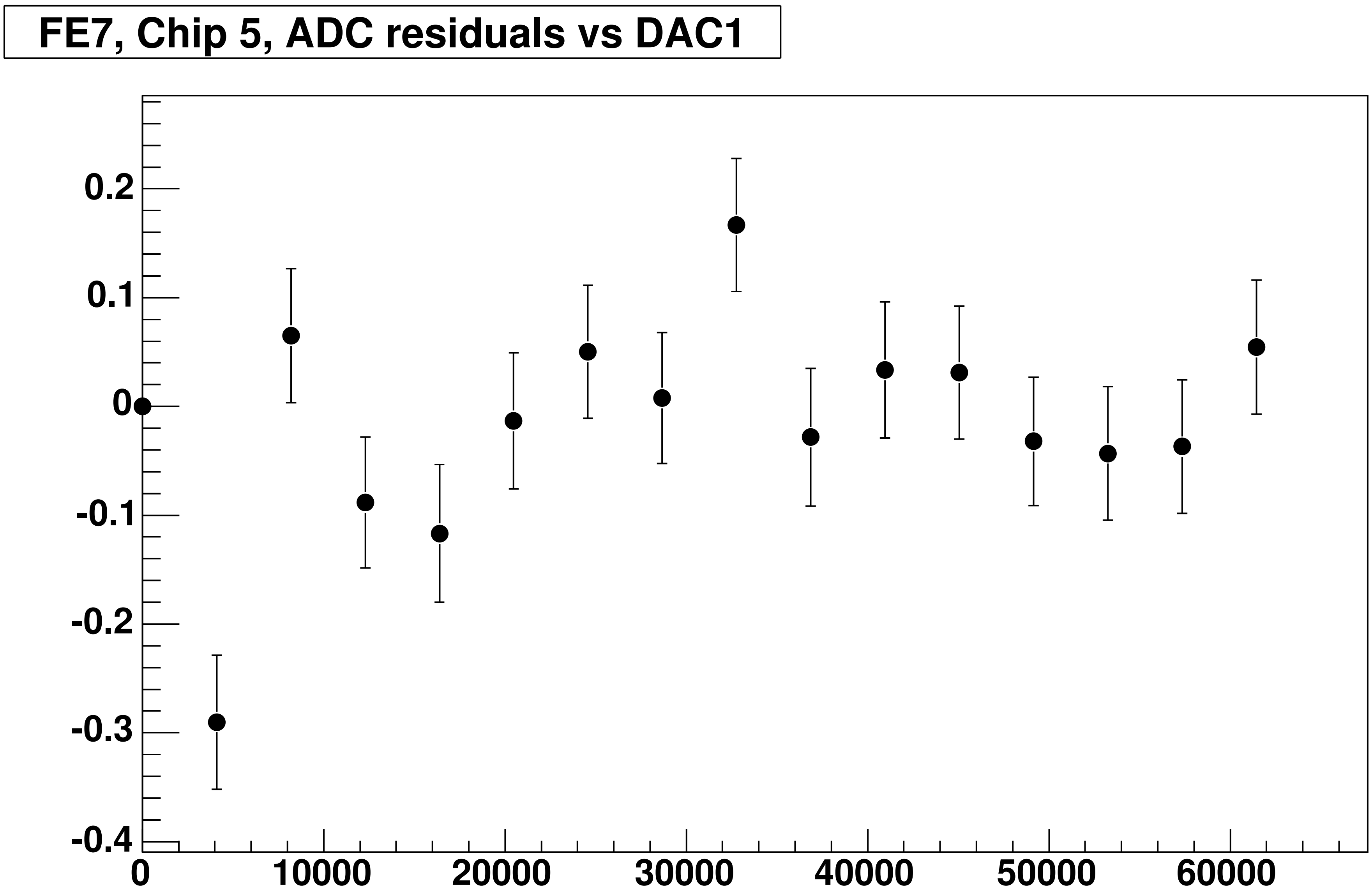
FE7, Chip 5, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

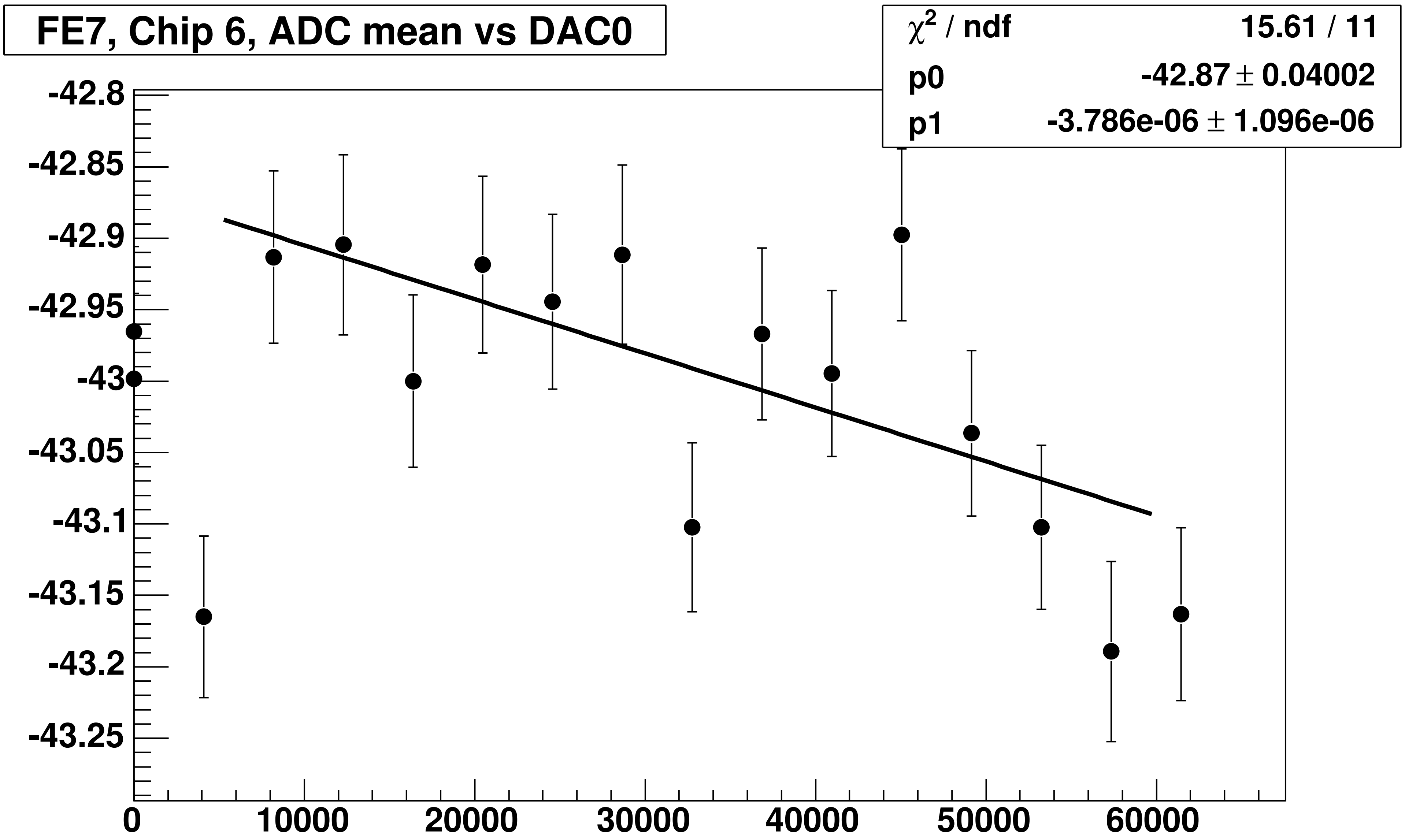


FE7, Chip 5, ADC residuals vs DAC0
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
0
10000
20000
30000
40000
50000
60000

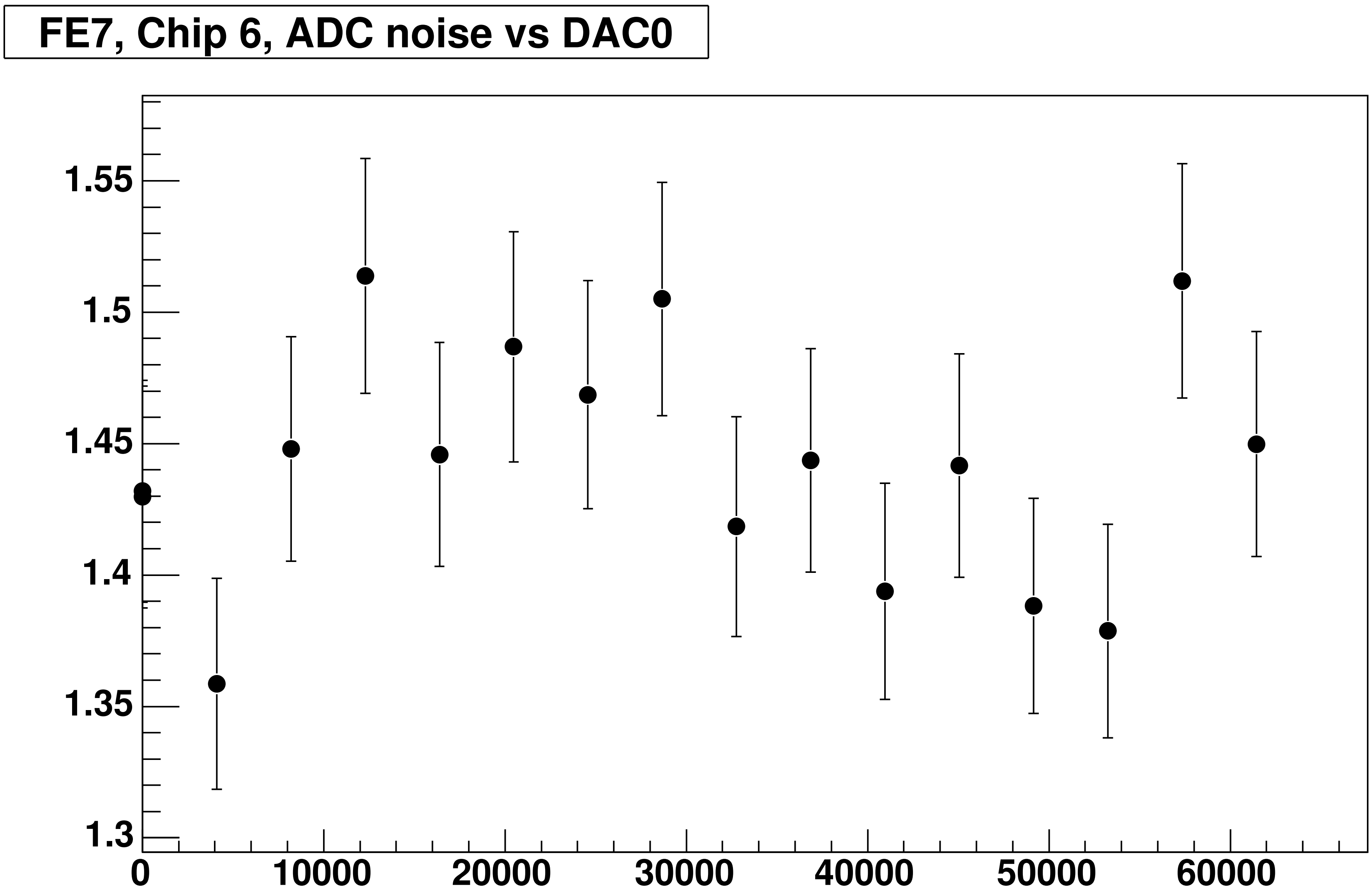

FE7, Chip 5, ADC mean vs DAC1
χ^2 / ndf 16.79 / 11
p0 30.7 ± 0.04028
p1 1.677e-07 ± 1.11e-06
30.9
30.8
30.7
30.6
30.5
30.4
30.3
0
10000
20000
30000
40000
50000
60000


FE7, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

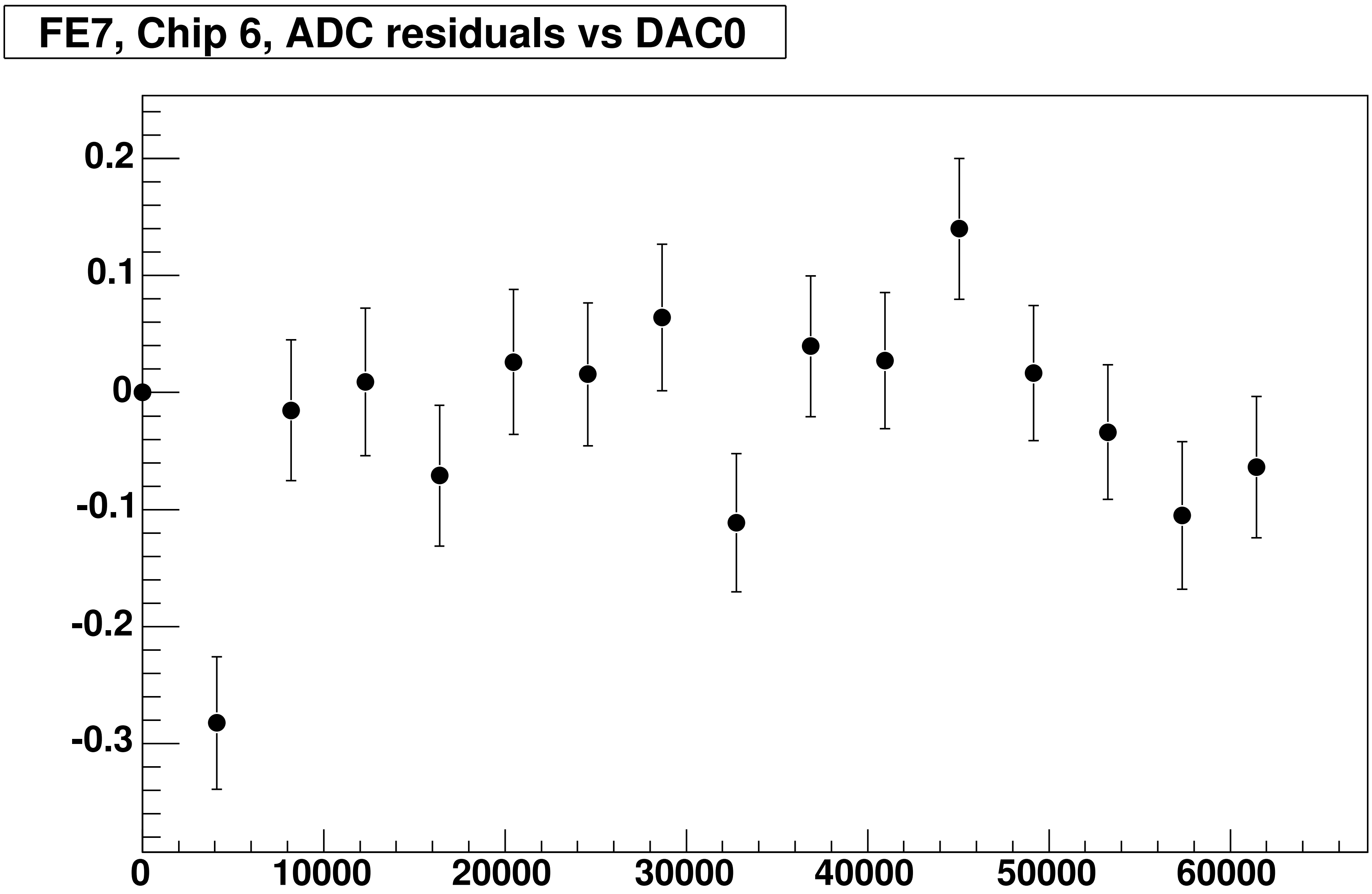

FE7, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



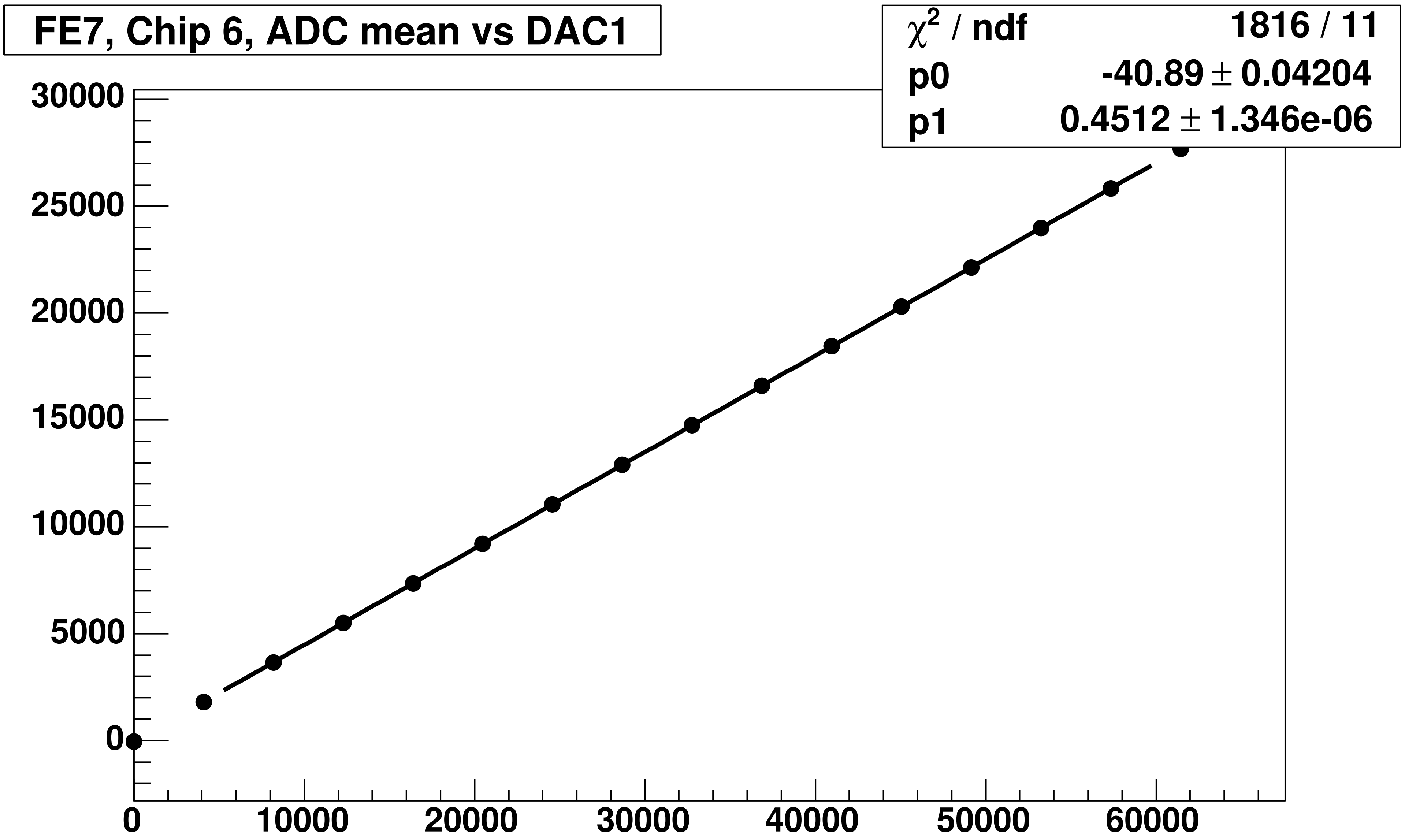
FE7, Chip 6, ADC mean vs DAC0
χ^2 / ndf 15.61 / 11
p0 -42.87 ± 0.04002
p1 -3.786e-06 ± 1.096e-06
-42.8
-42.85
-42.9
-42.95
-43
-43.05
-43.1
-43.15
-43.2
-43.25
0
10000
20000
30000
40000
50000
60000

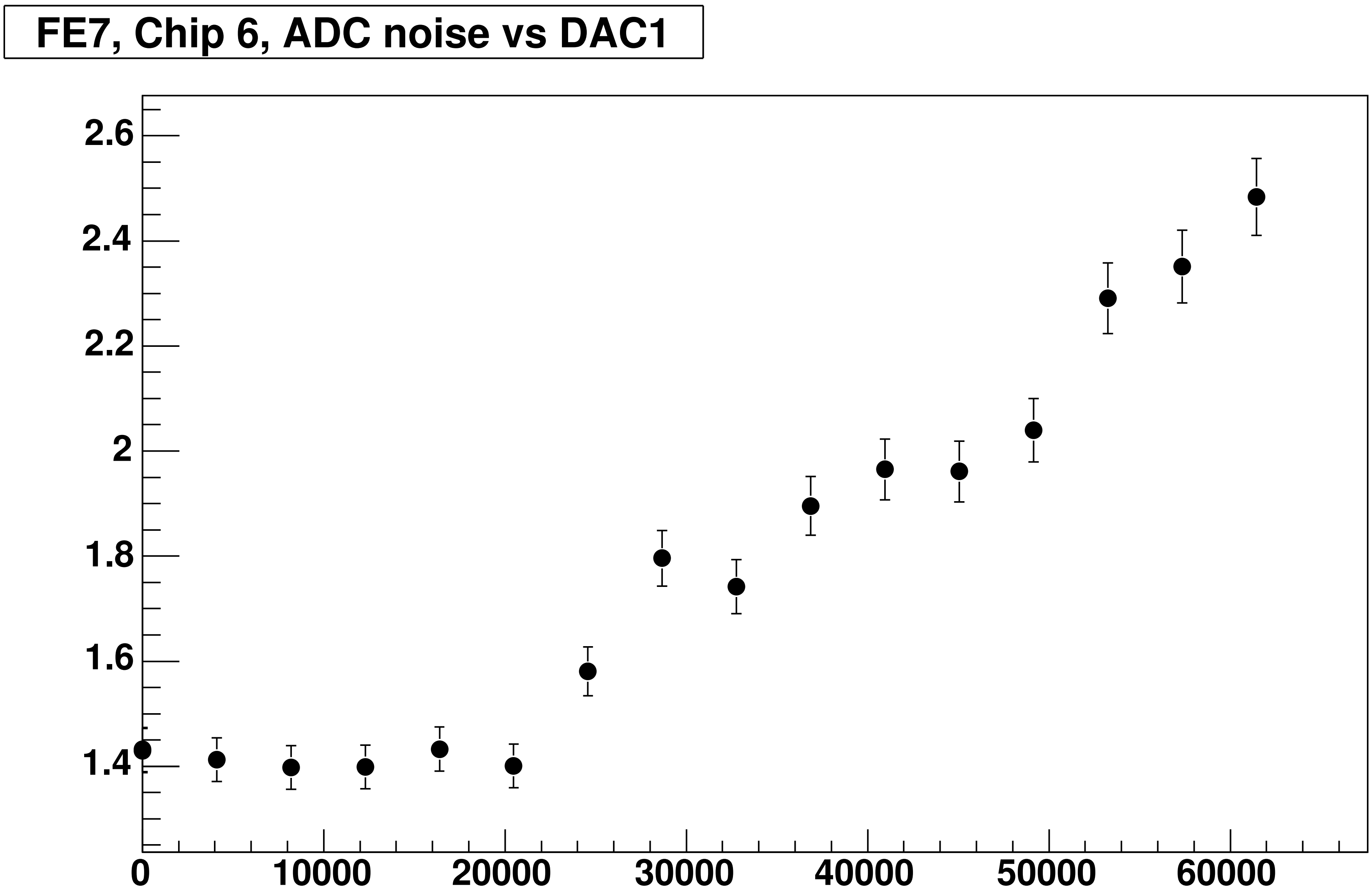


FE7, Chip 6, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

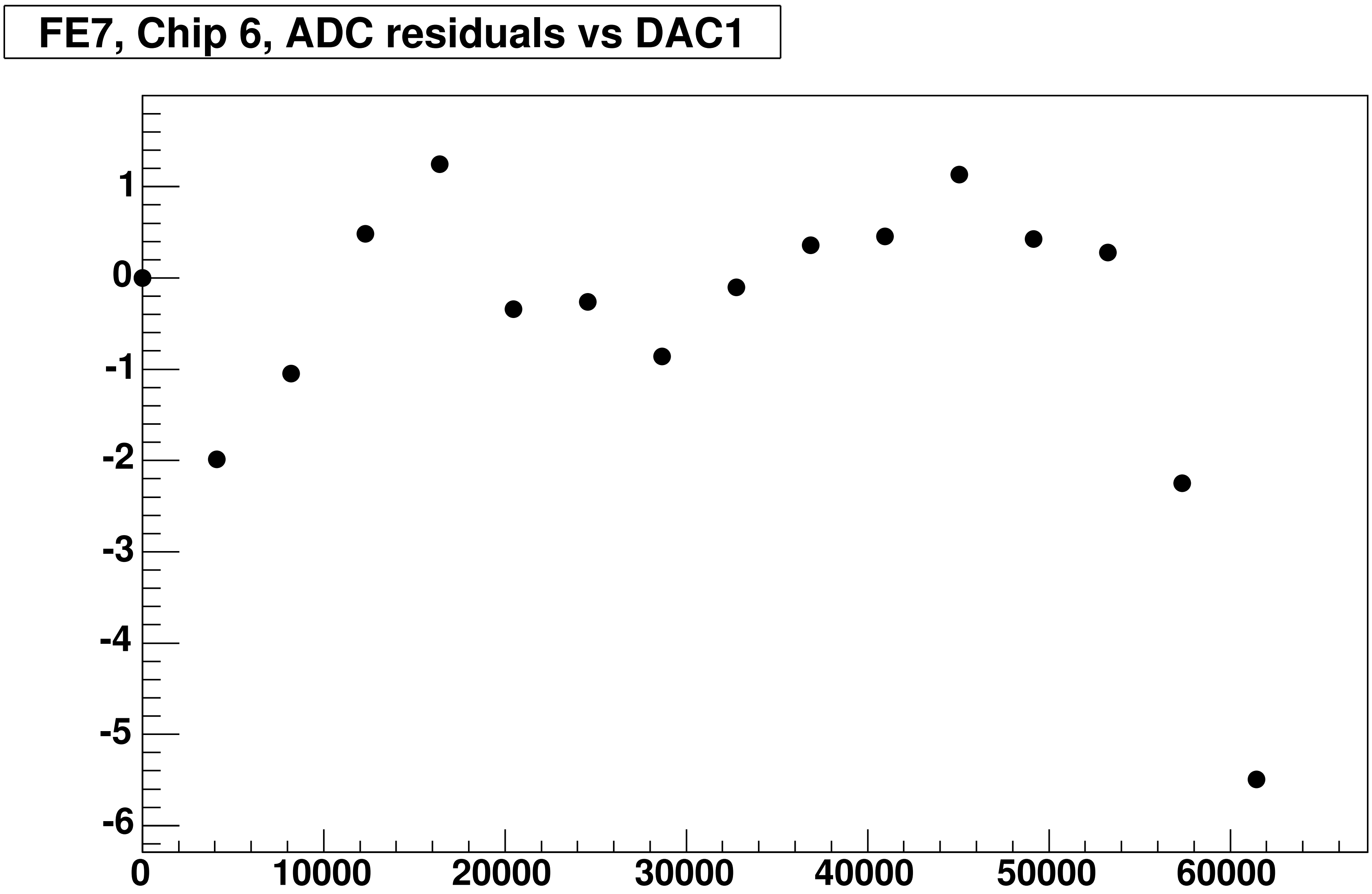


FE7, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

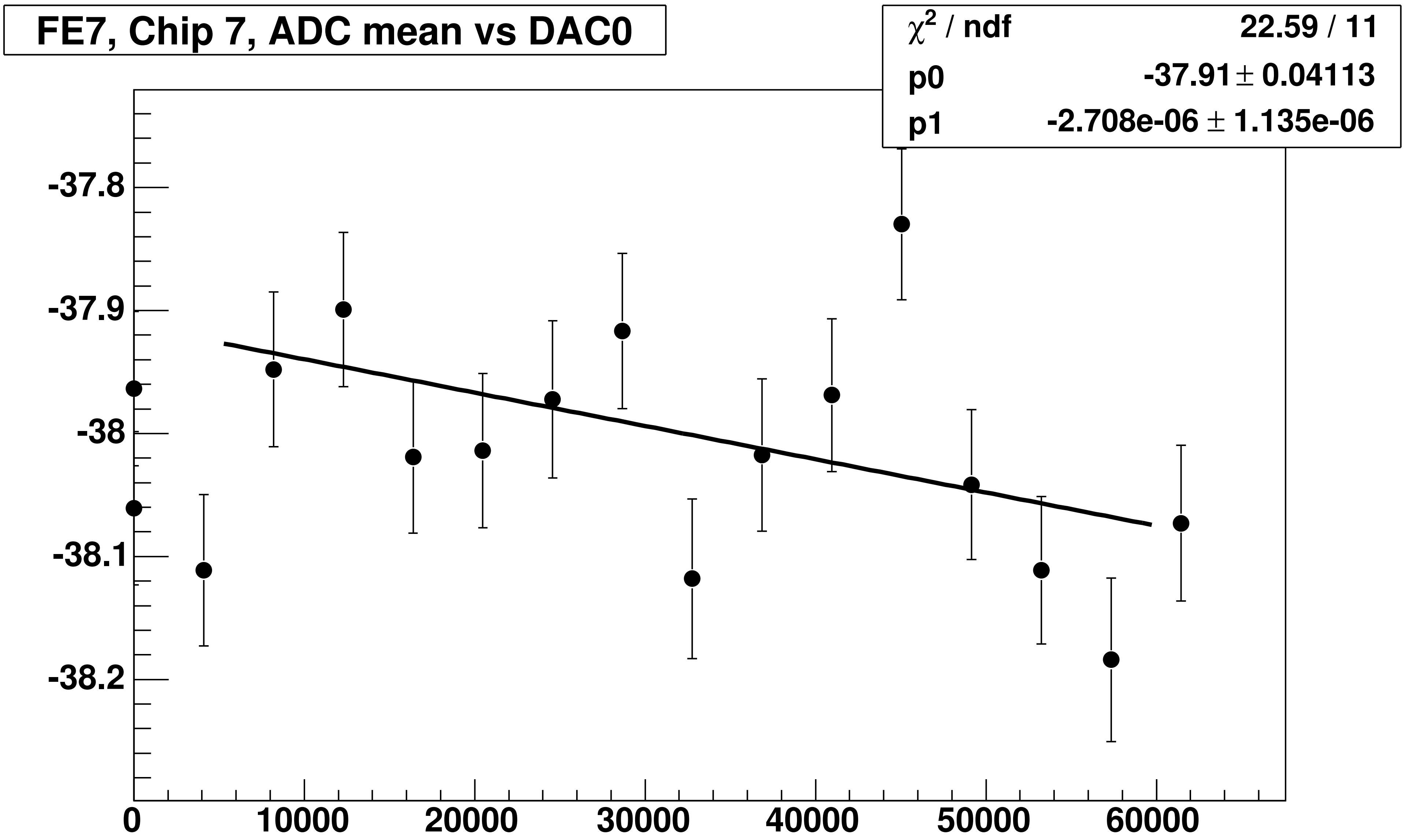

FE7, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1816 / 11
p0 -40.89 ± 0.04204
p1 0.4512 ± 1.346e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



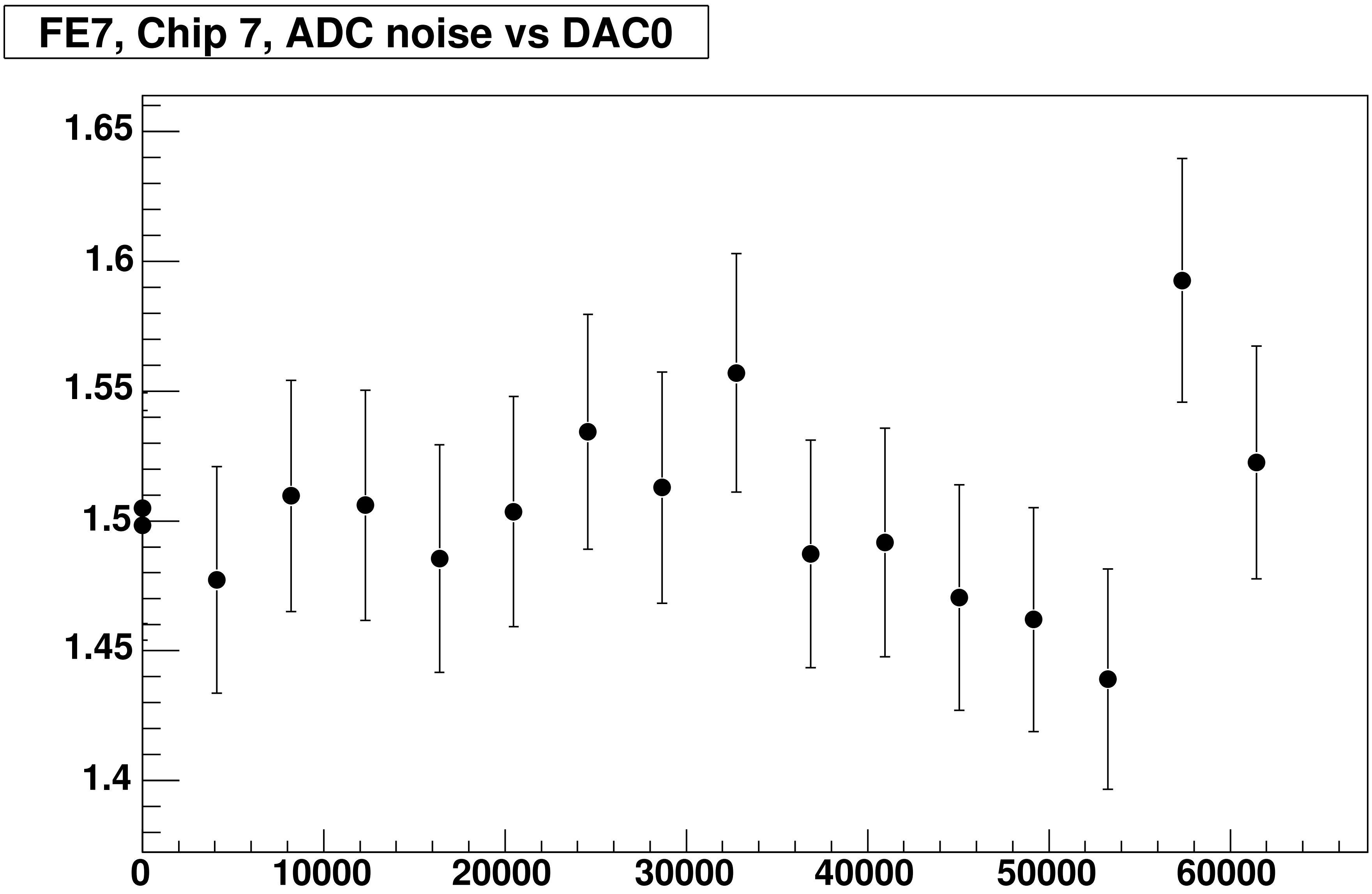
FE7, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



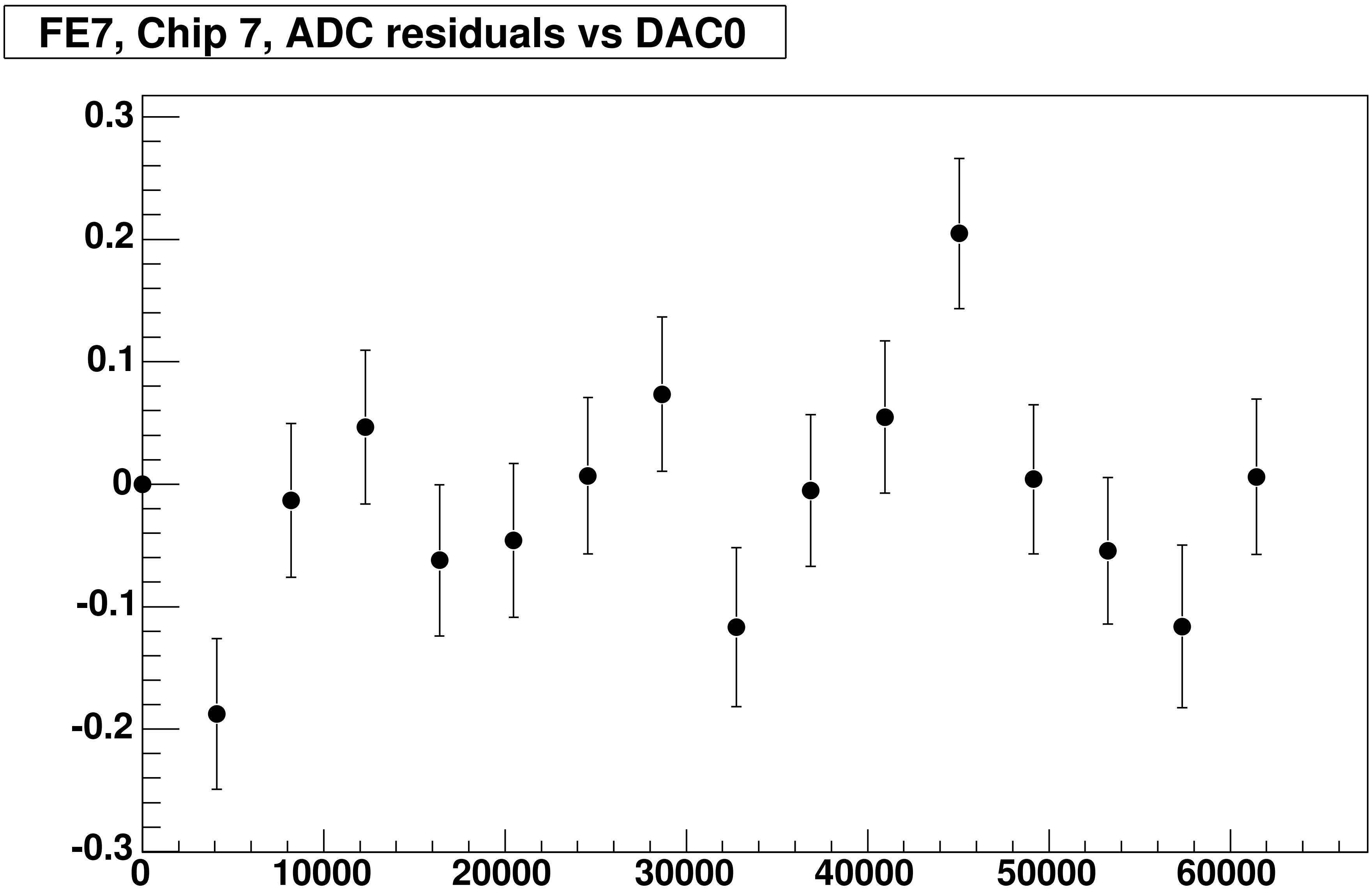
FE7, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

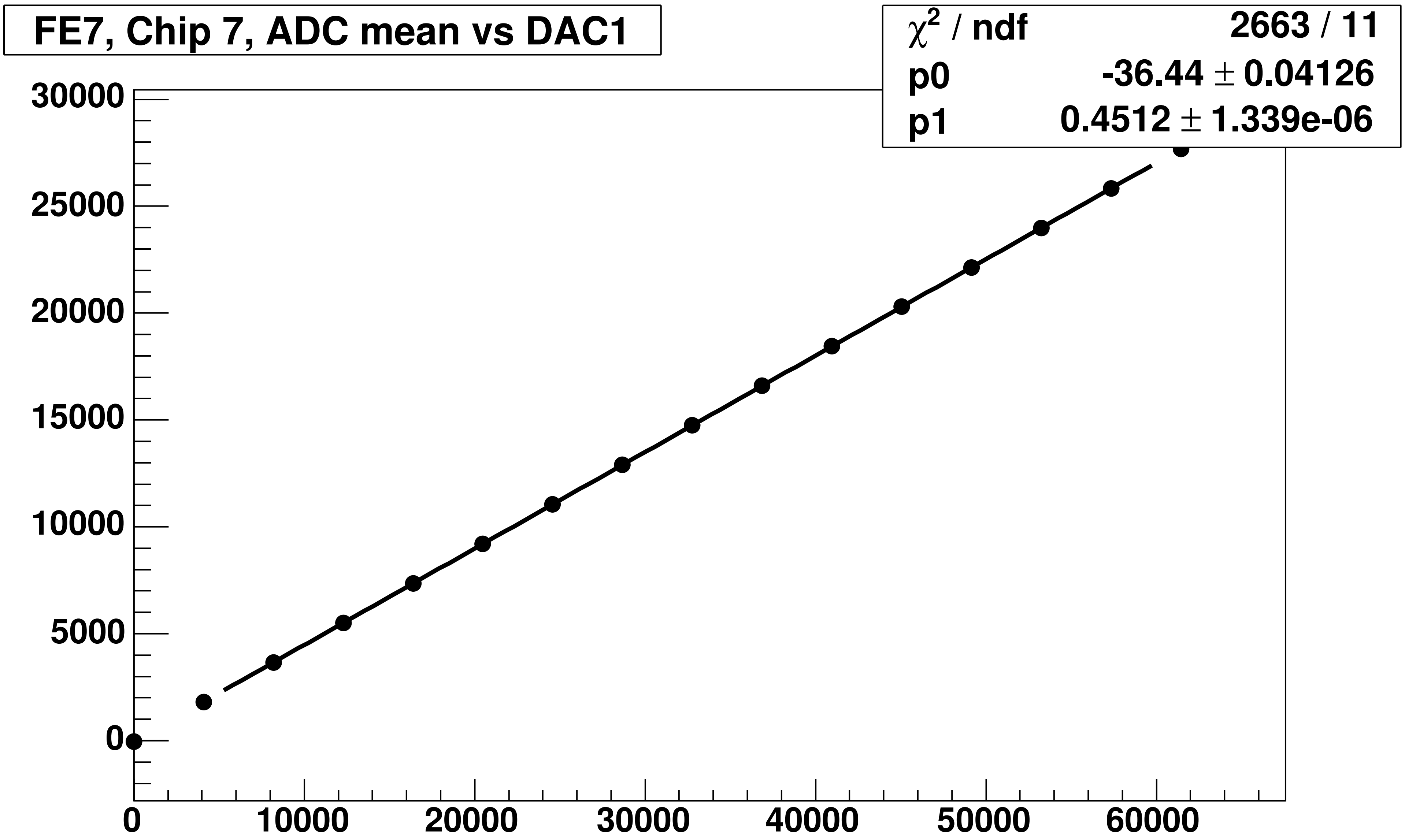


FE7, Chip 7, ADC mean vs DAC0
χ^2 / ndf 22.59 / 11
p0 -37.91 ± 0.04113
p1 -2.708e-06 ± 1.135e-06
-37.8
-37.9
-38
-38.1
-38.2
0
10000
20000
30000
40000
50000
60000

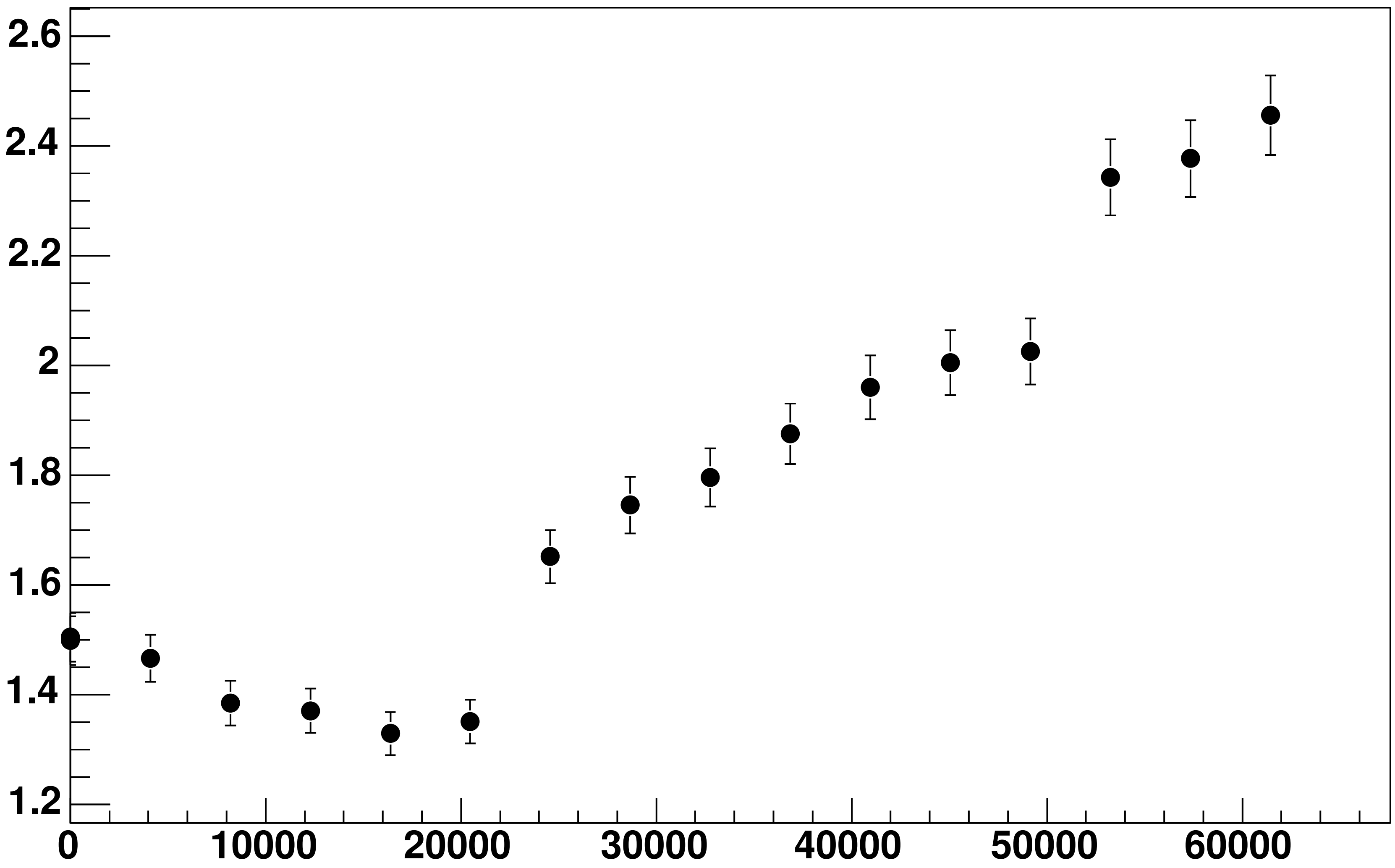


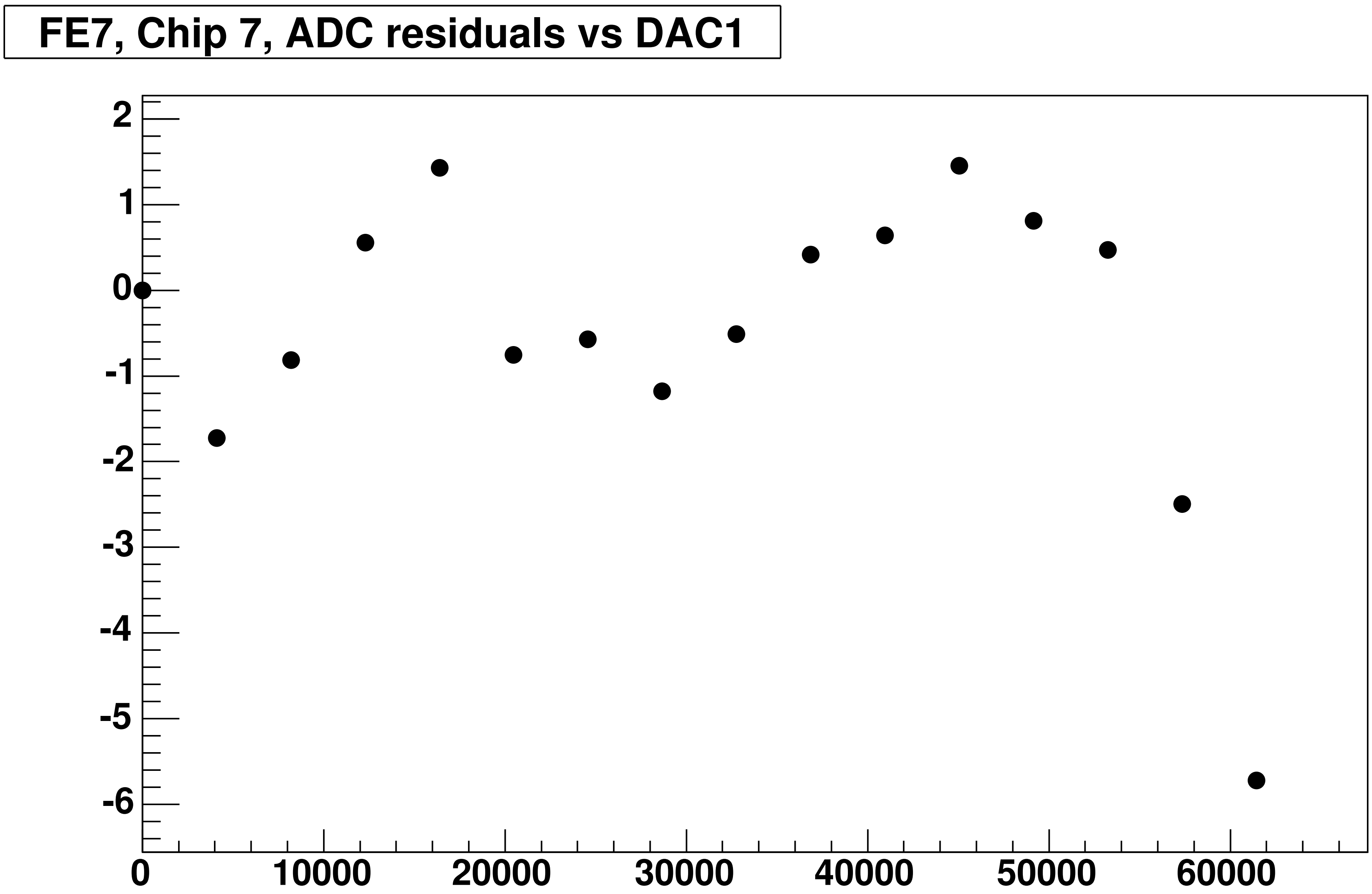
FE7, Chip 7, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

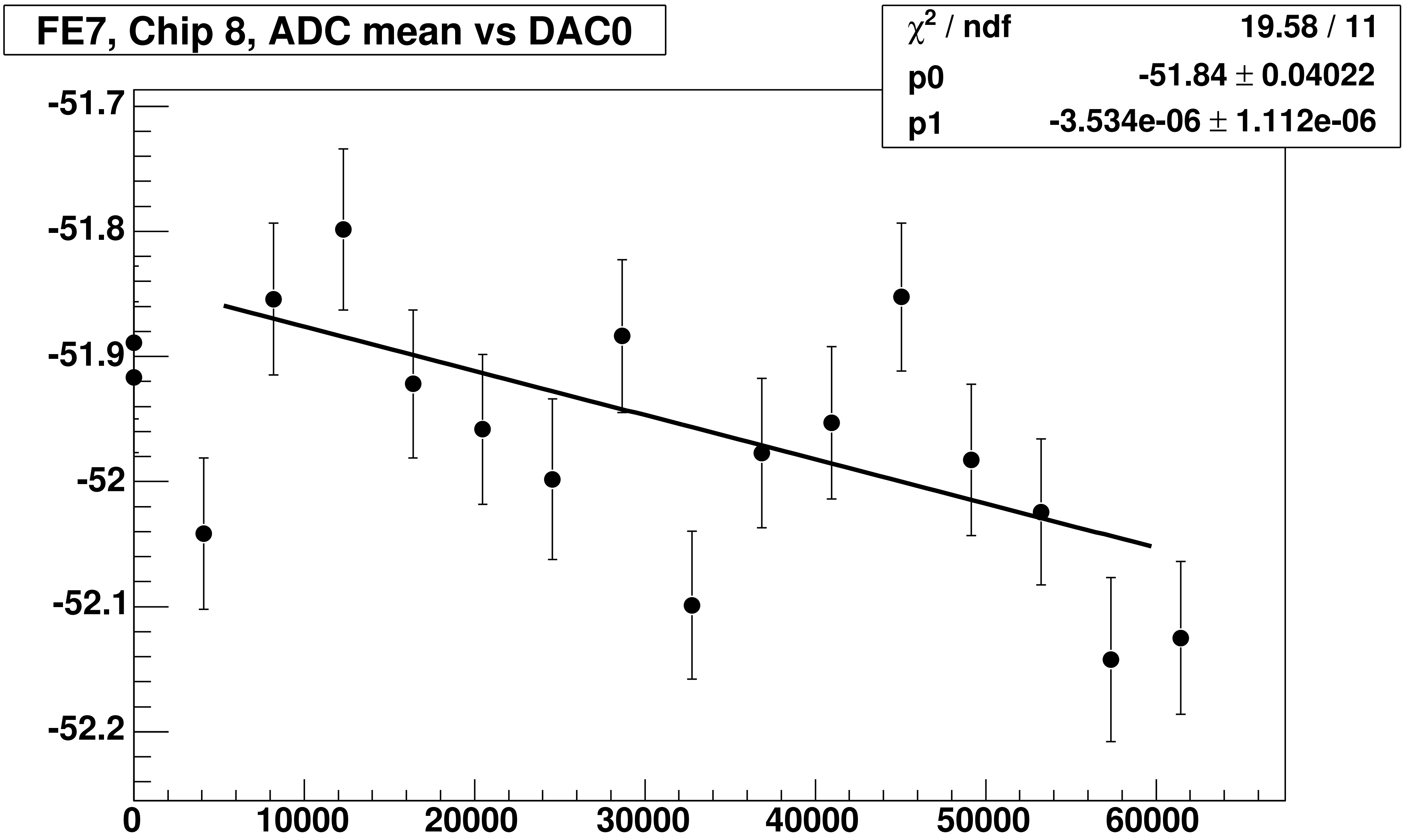

FE7, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE7, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2663 / 11
p0 -36.44 ± 0.04126
p1 0.4512 ± 1.339e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

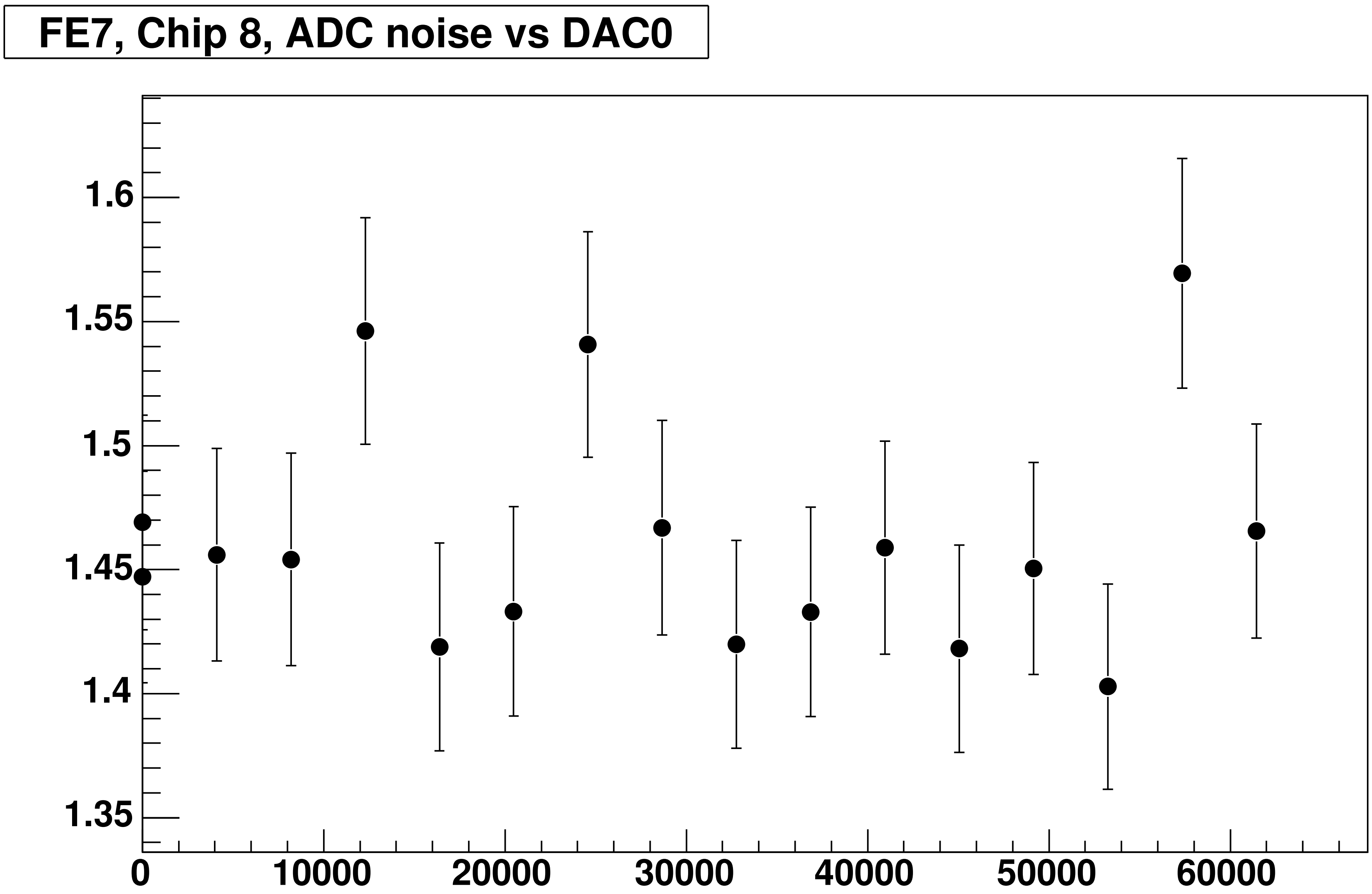
FE7, Chip 7, ADC noise vs DAC1

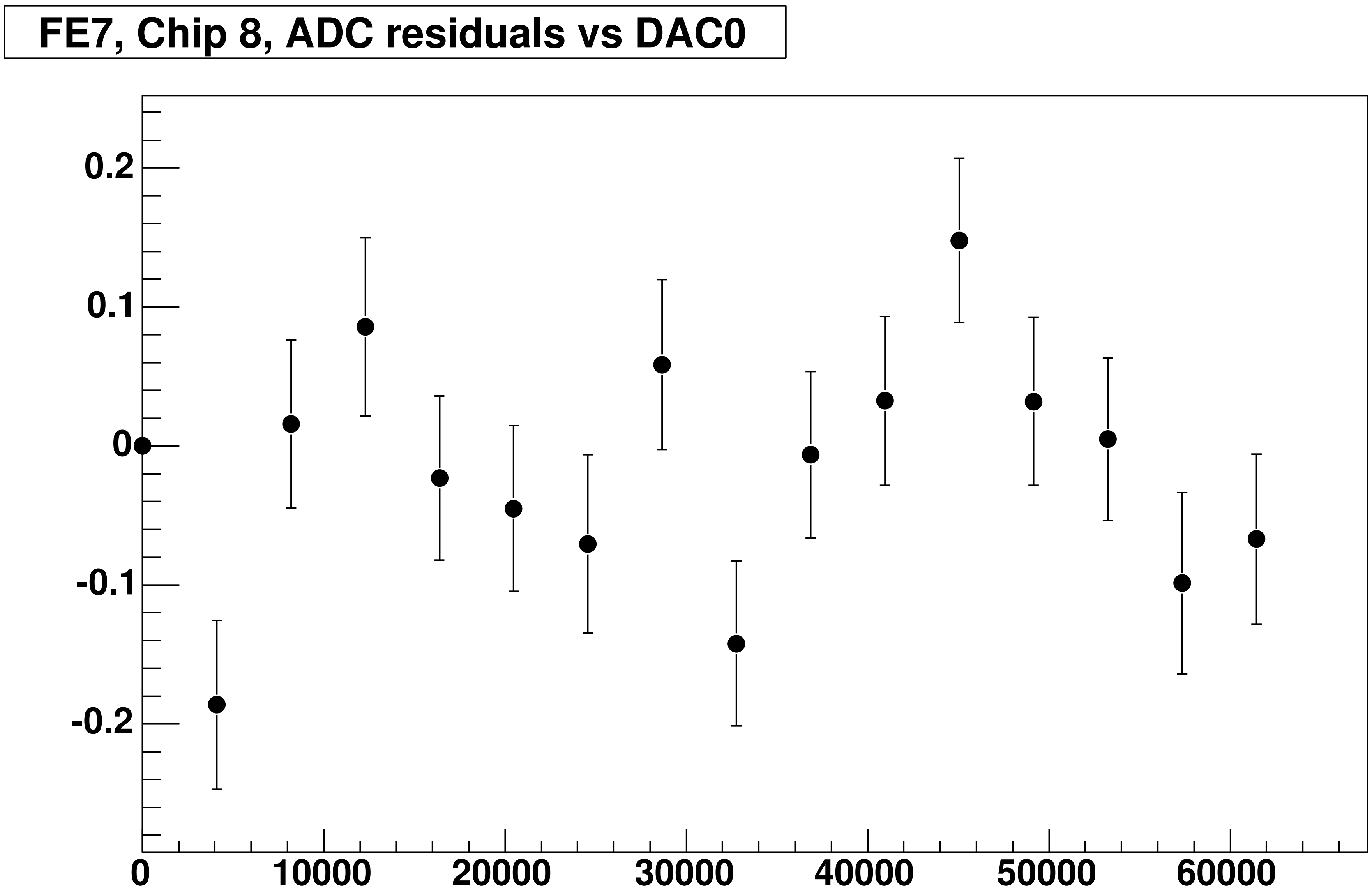


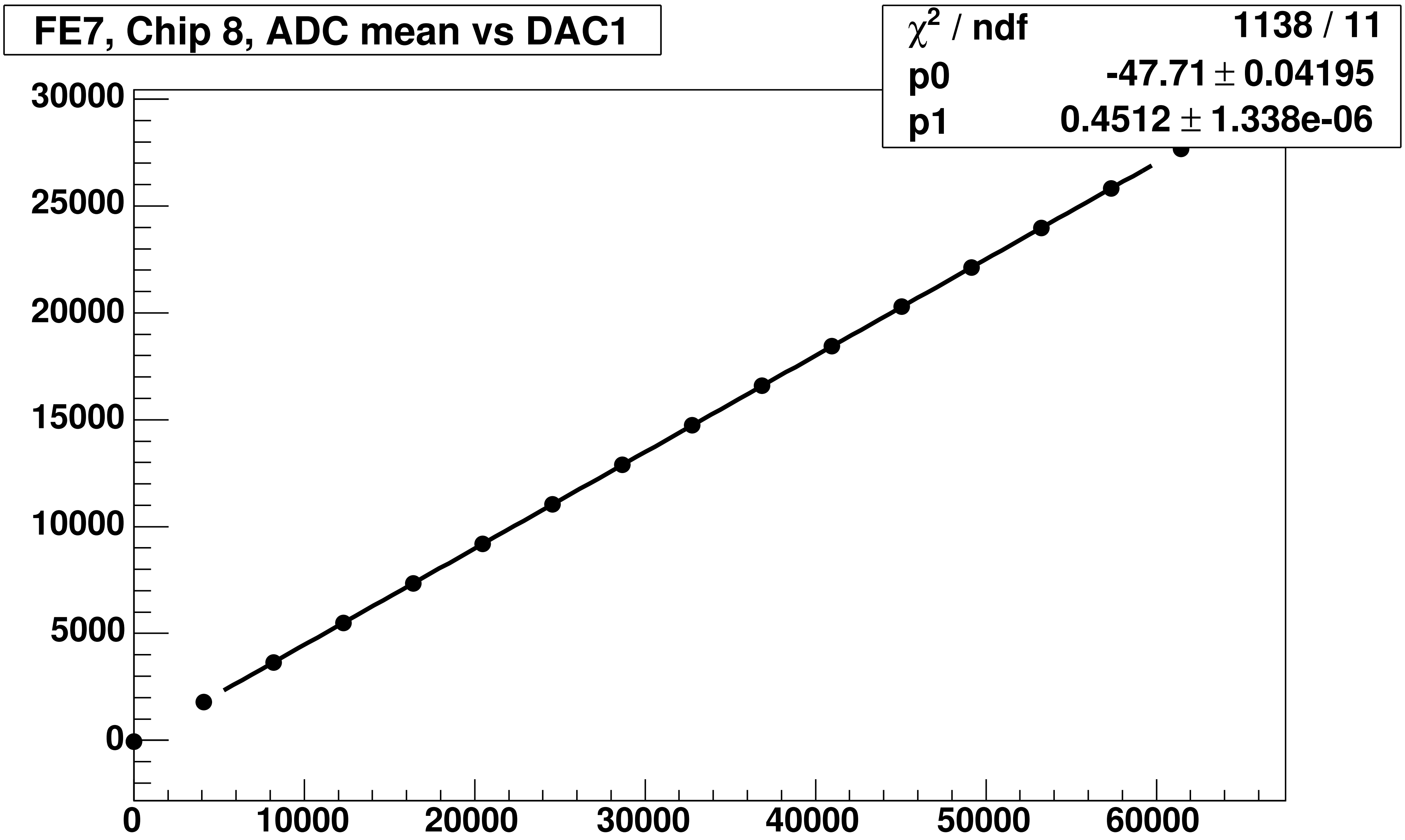

FE7, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



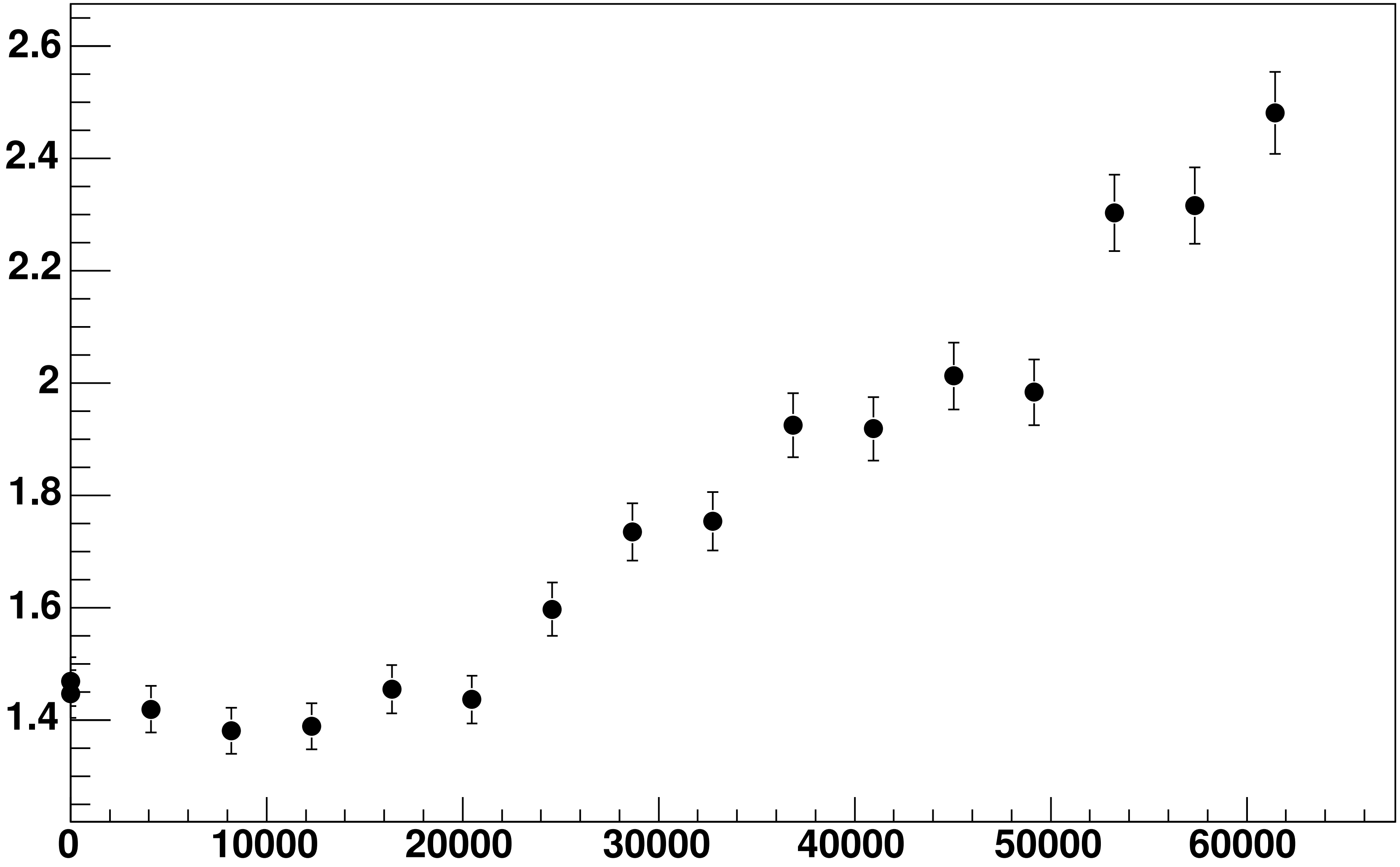
FE7, Chip 8, ADC mean vs DAC0
χ^2 / ndf 19.58 / 11
p0 -51.84 ± 0.04022
p1 -3.534e-06 ± 1.112e-06
-51.7
-51.8
-51.9
-52
-52.1
-52.2
0
10000
20000
30000
40000
50000
60000

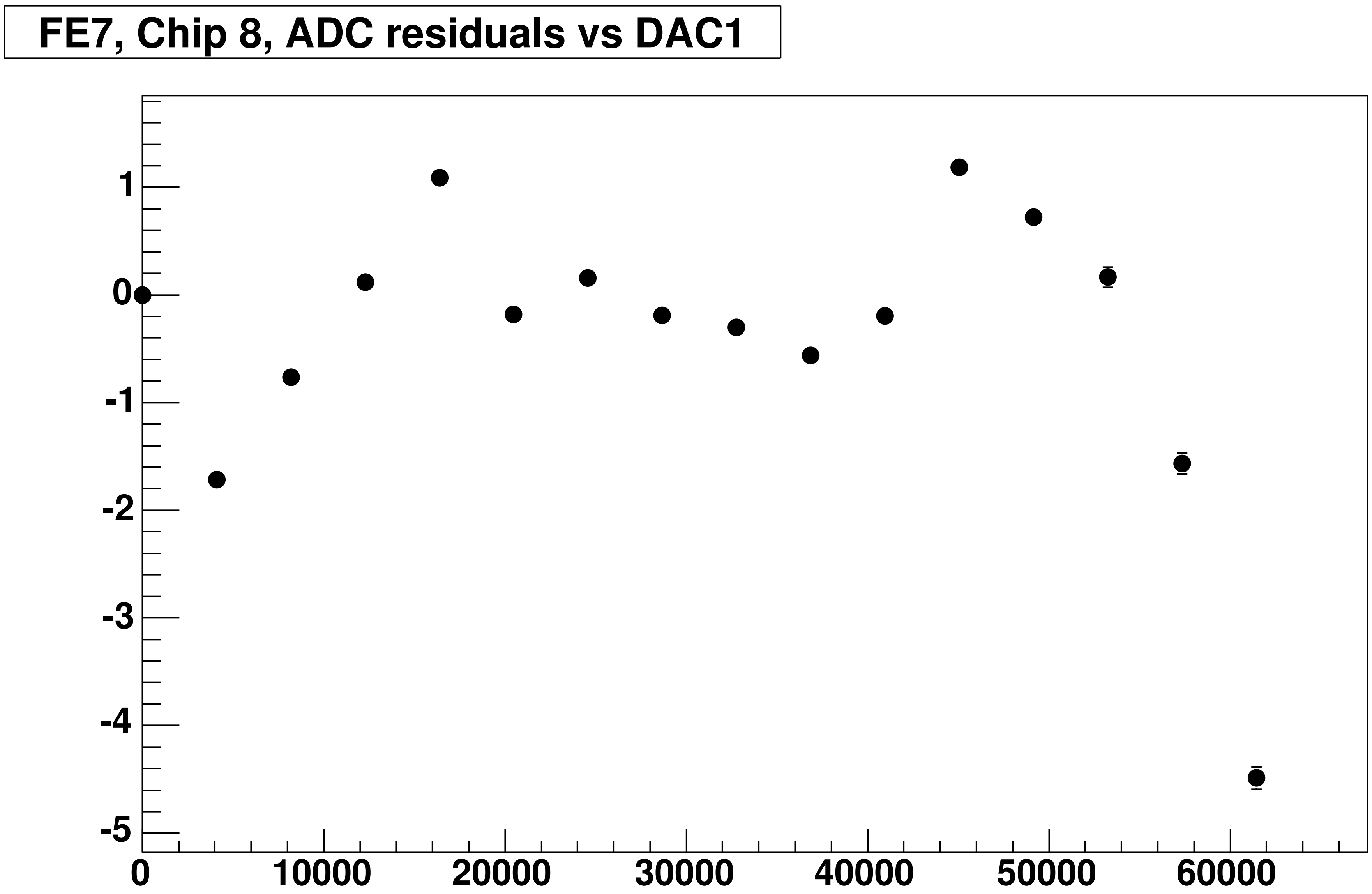

FE7, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

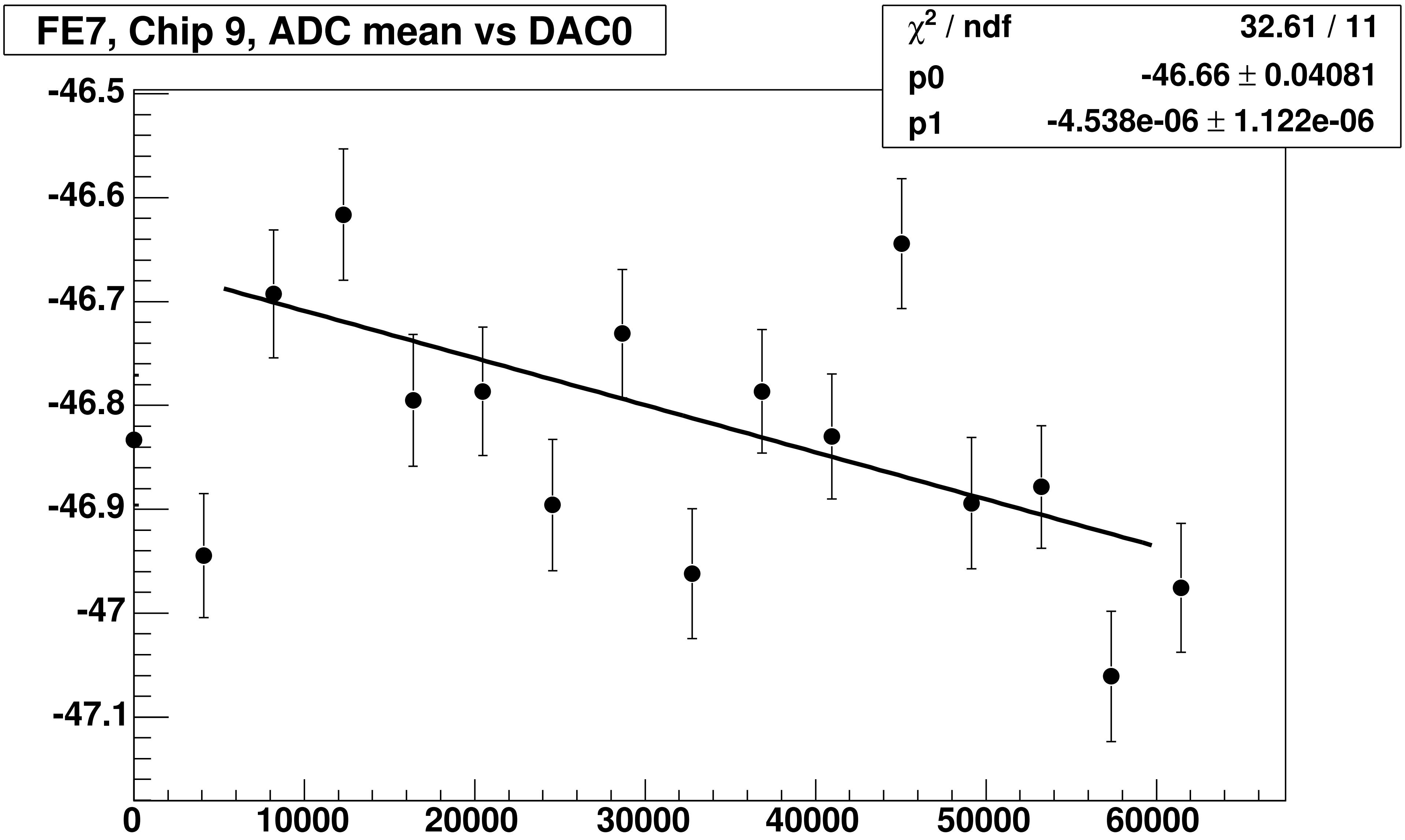

FE7, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

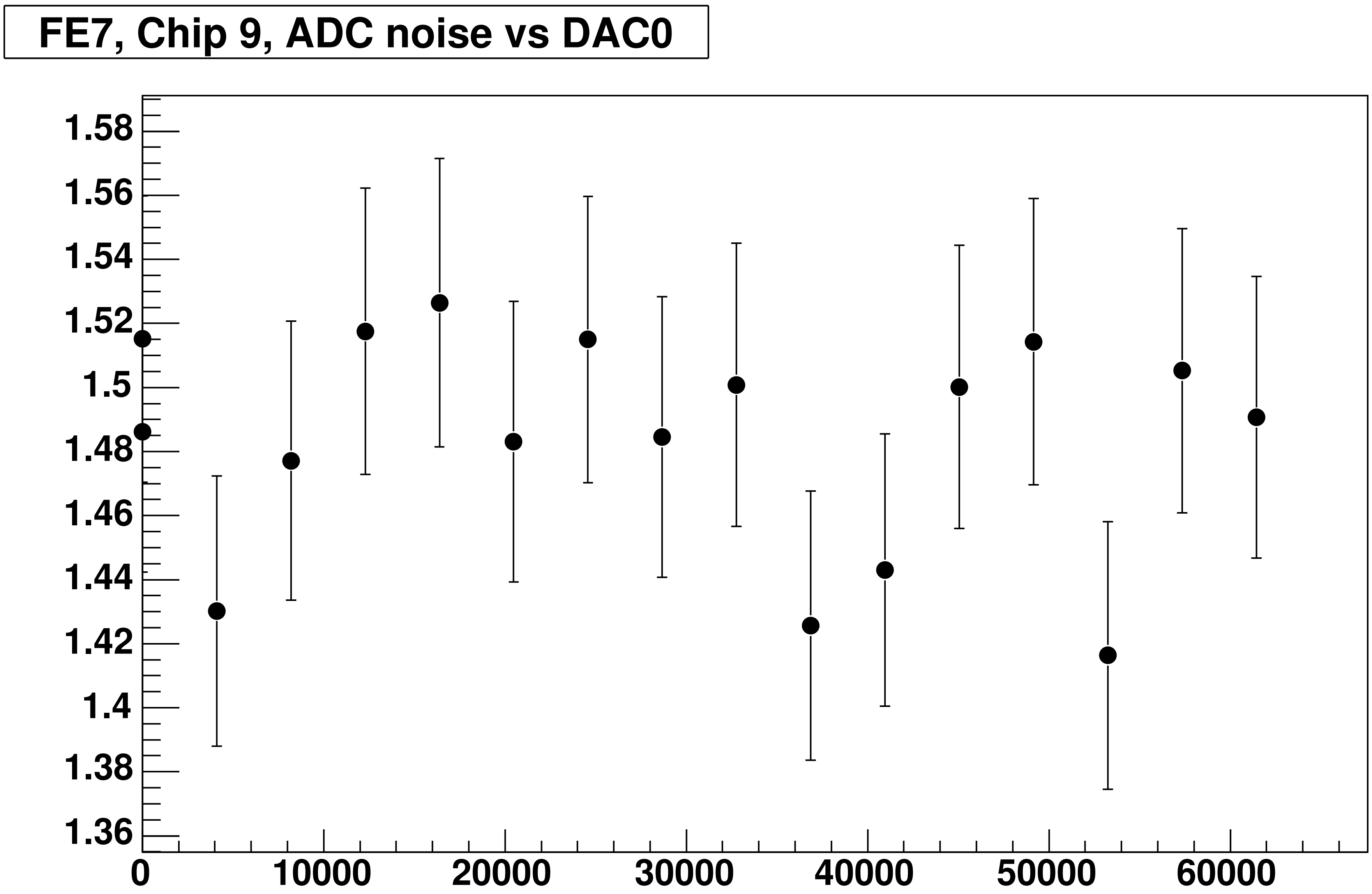

FE7, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1138 / 11
p0 -47.71 ± 0.04195
p1 0.4512 ± 1.338e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

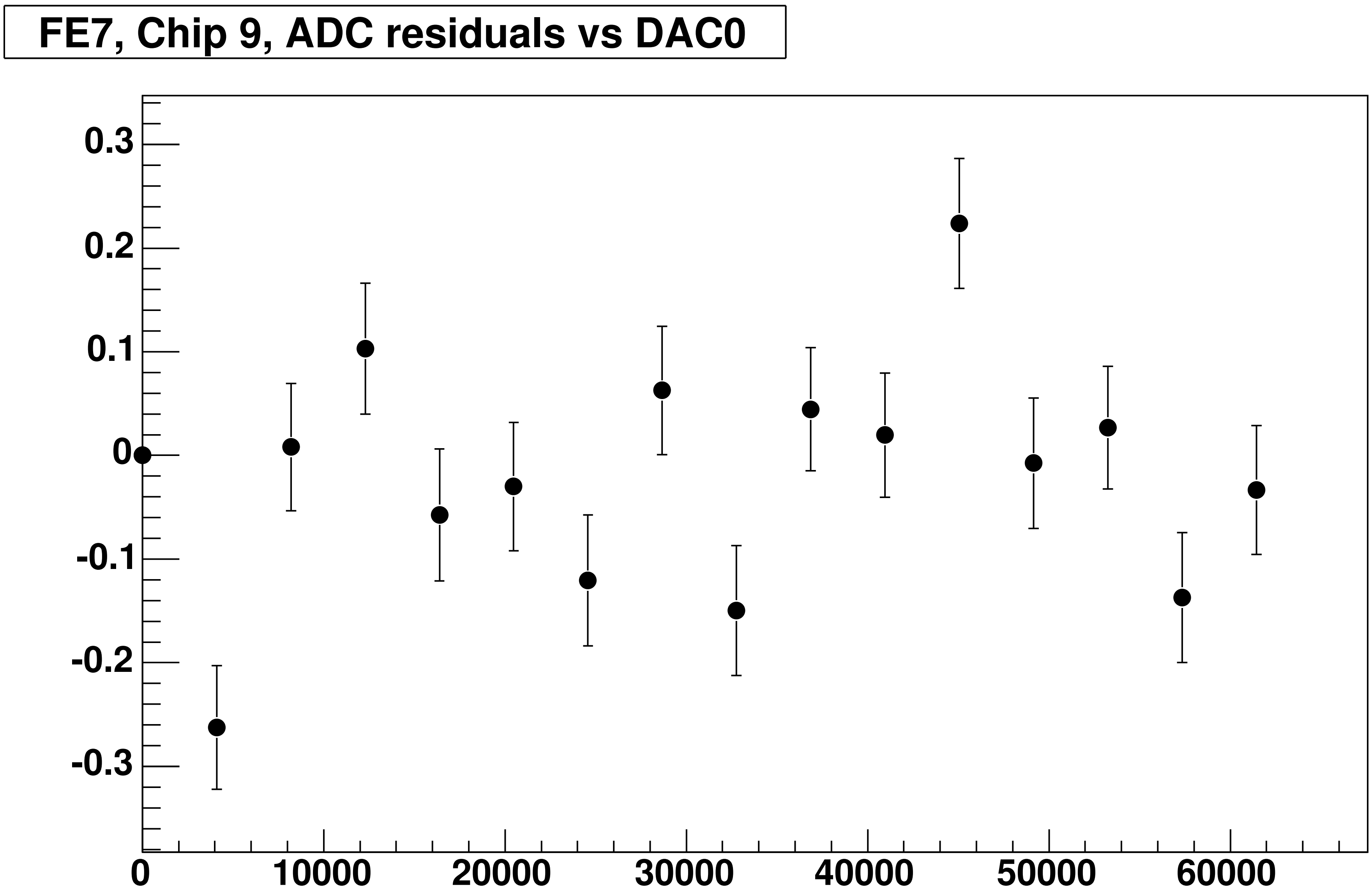
FE7, Chip 8, ADC noise vs DAC1



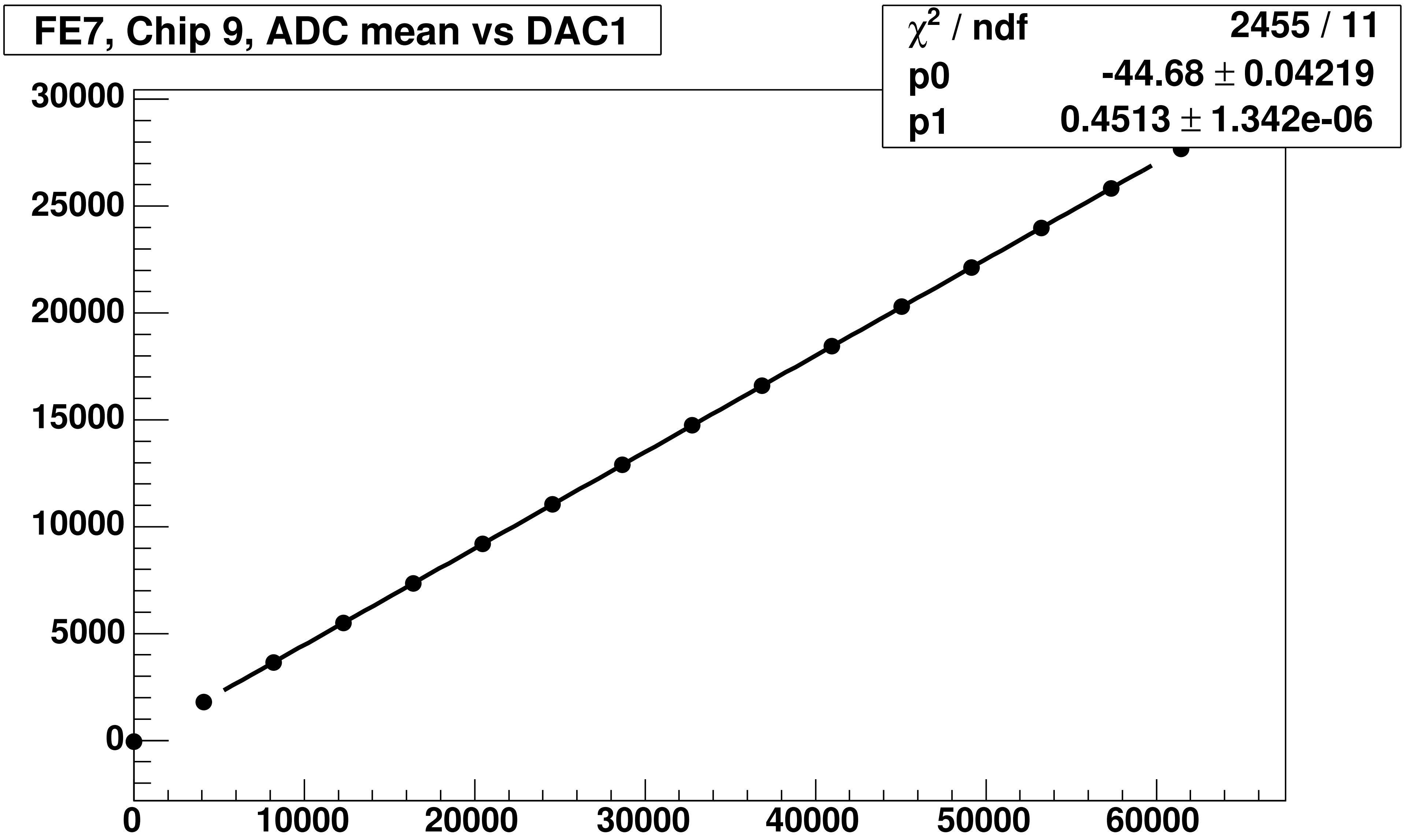

FE7, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE7, Chip 9, ADC mean vs DAC0
χ^2 / ndf 32.61 / 11
p0 -46.66 ± 0.04081
p1 -4.538e-06 ± 1.122e-06
-46.5
-46.6
-46.7
-46.8
-46.9
-47
-47.1
0
10000
20000
30000
40000
50000
60000

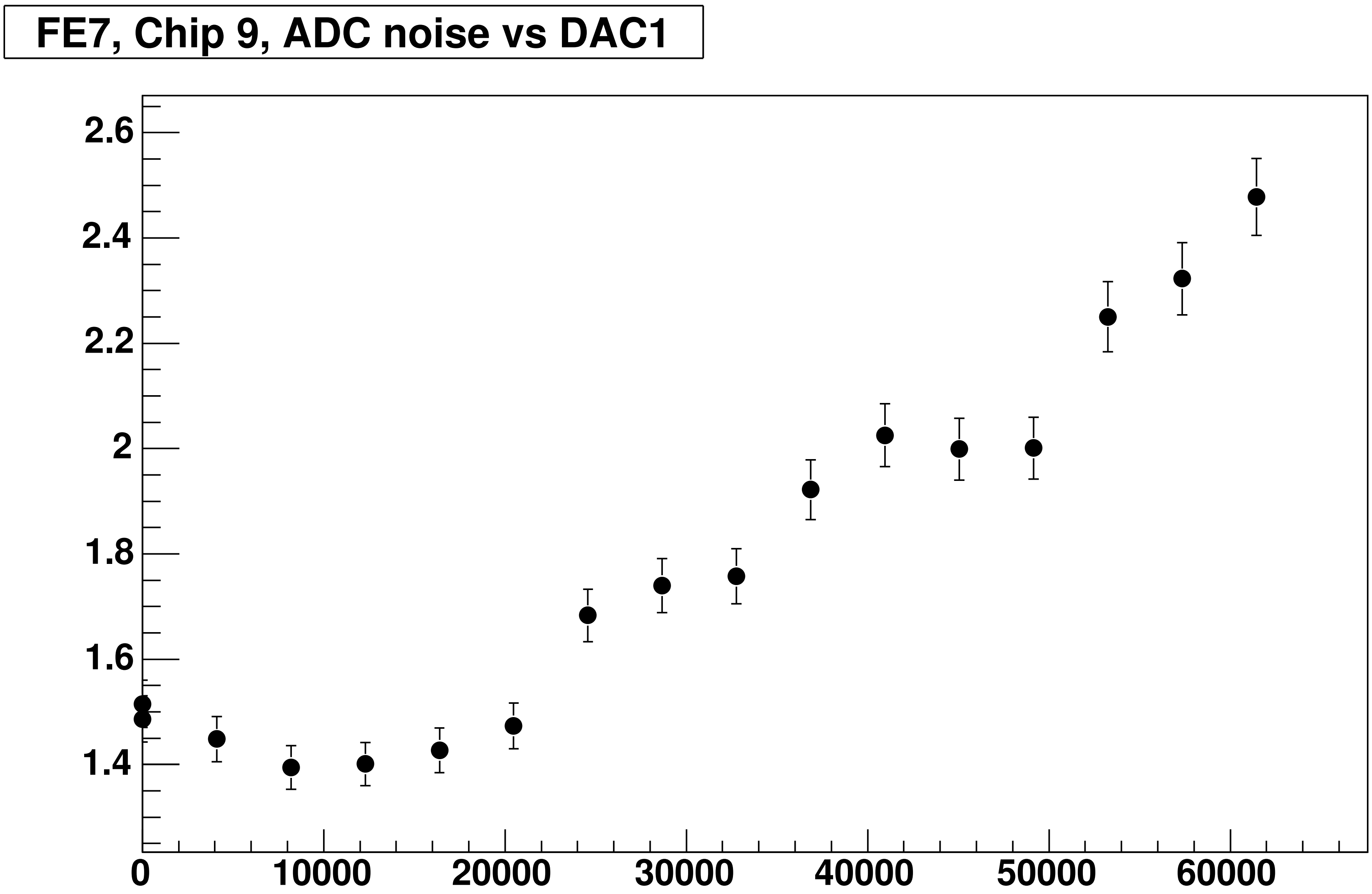

FE7, Chip 9, ADC noise vs DAC0
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
0
10000
20000
30000
40000
50000
60000

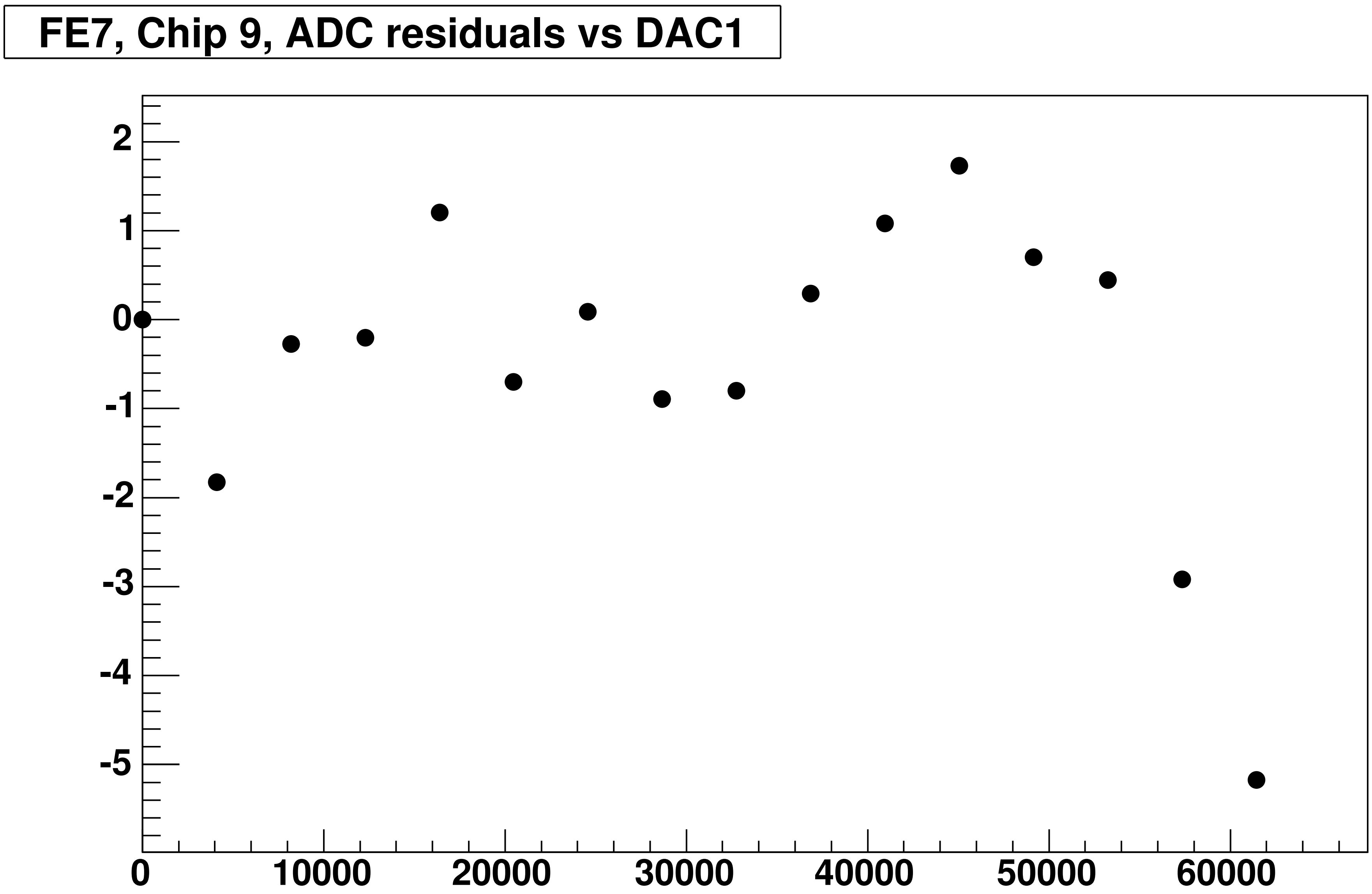


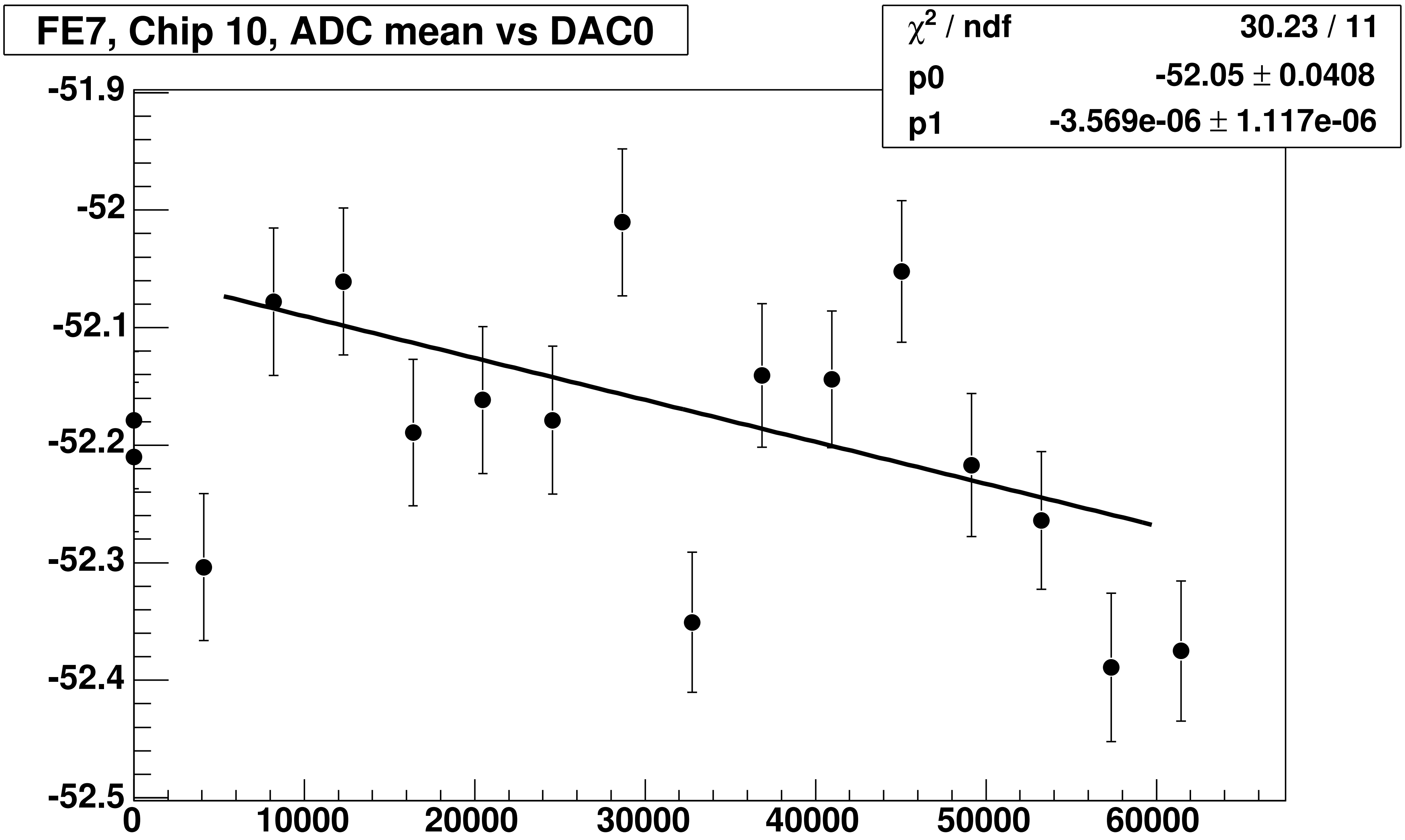
FE7, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



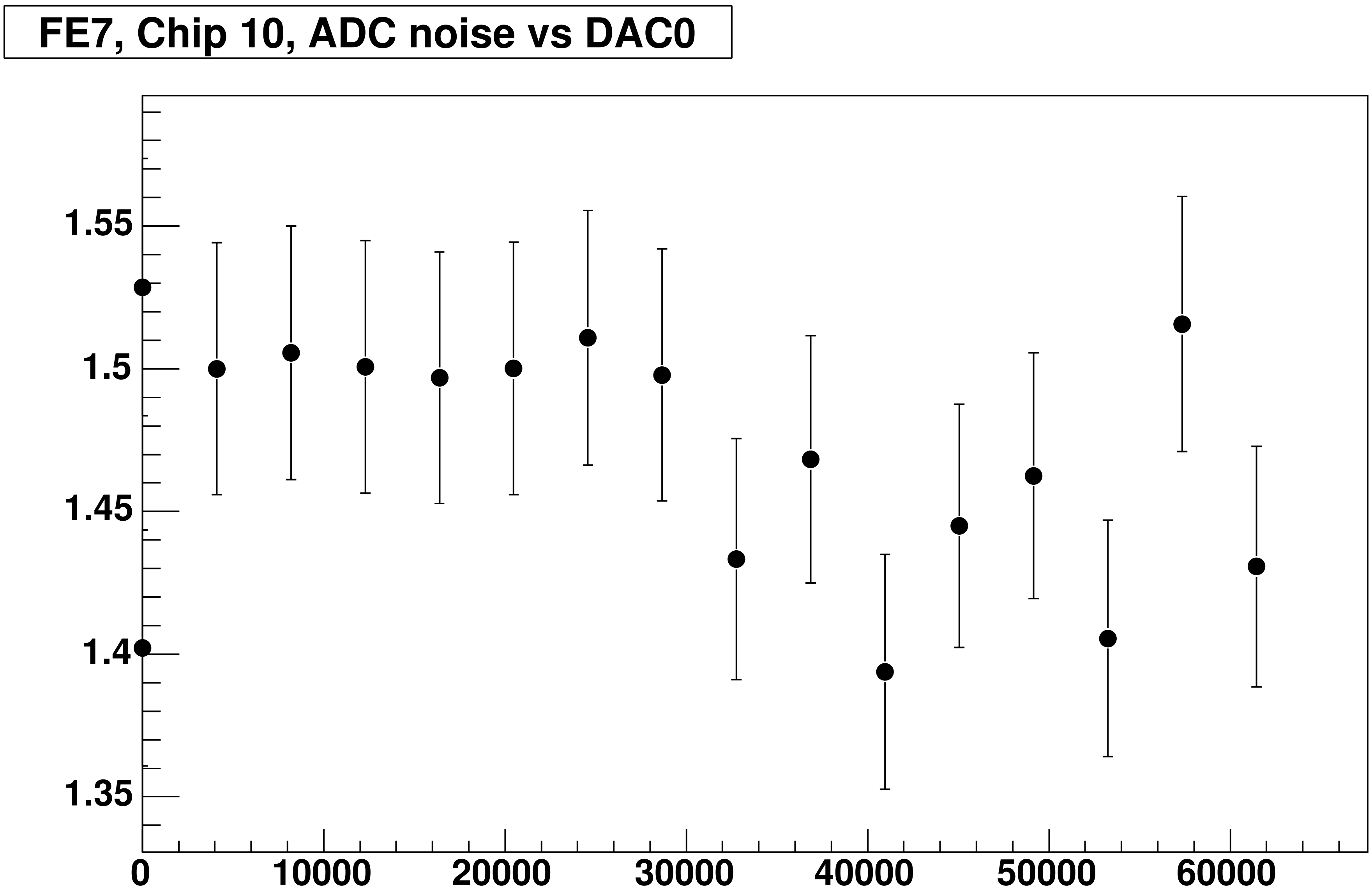
FE7, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2455 / 11
p0 -44.68 ± 0.04219
p1 0.4513 ± 1.342e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

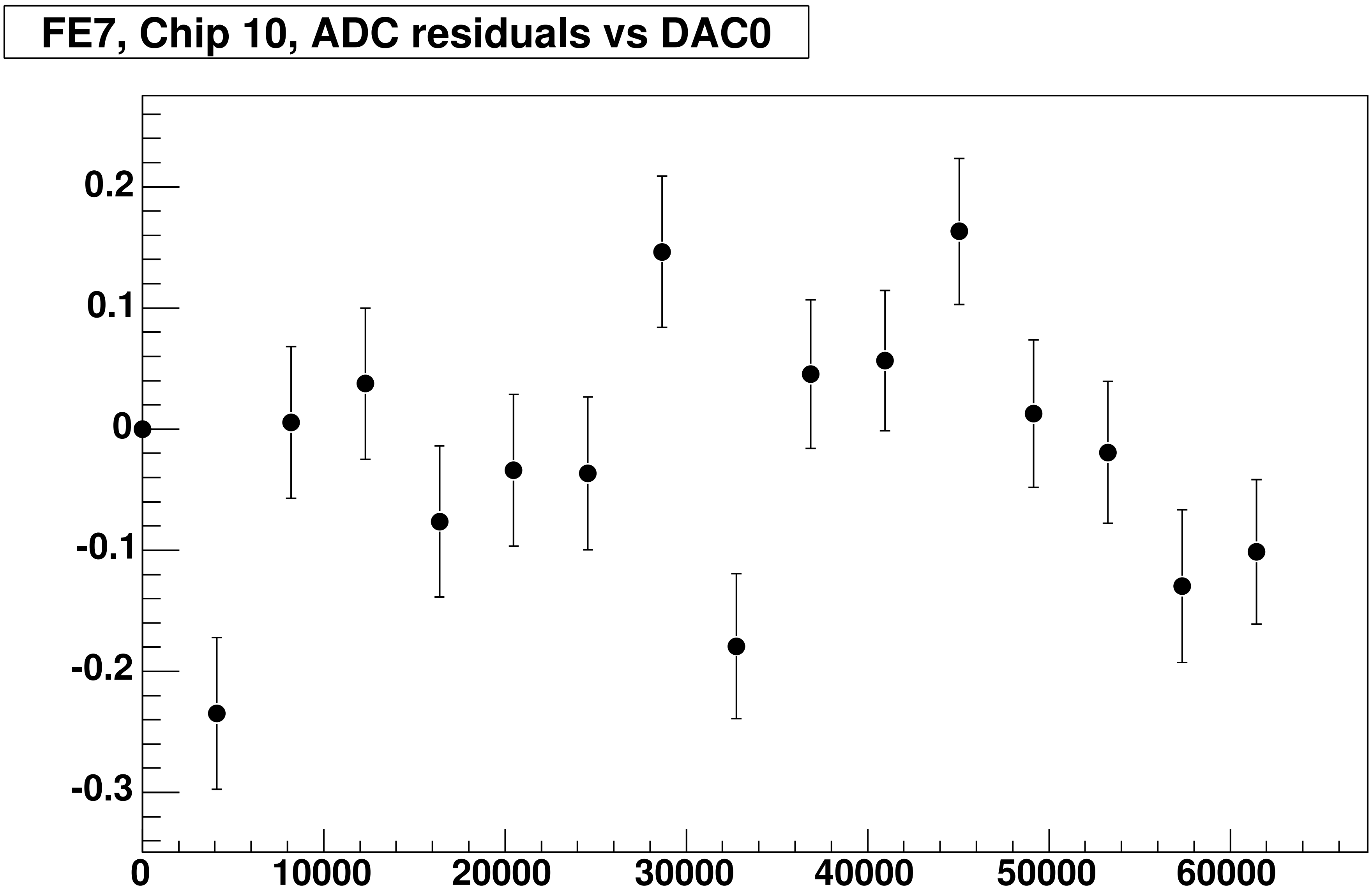

FE7, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE7, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

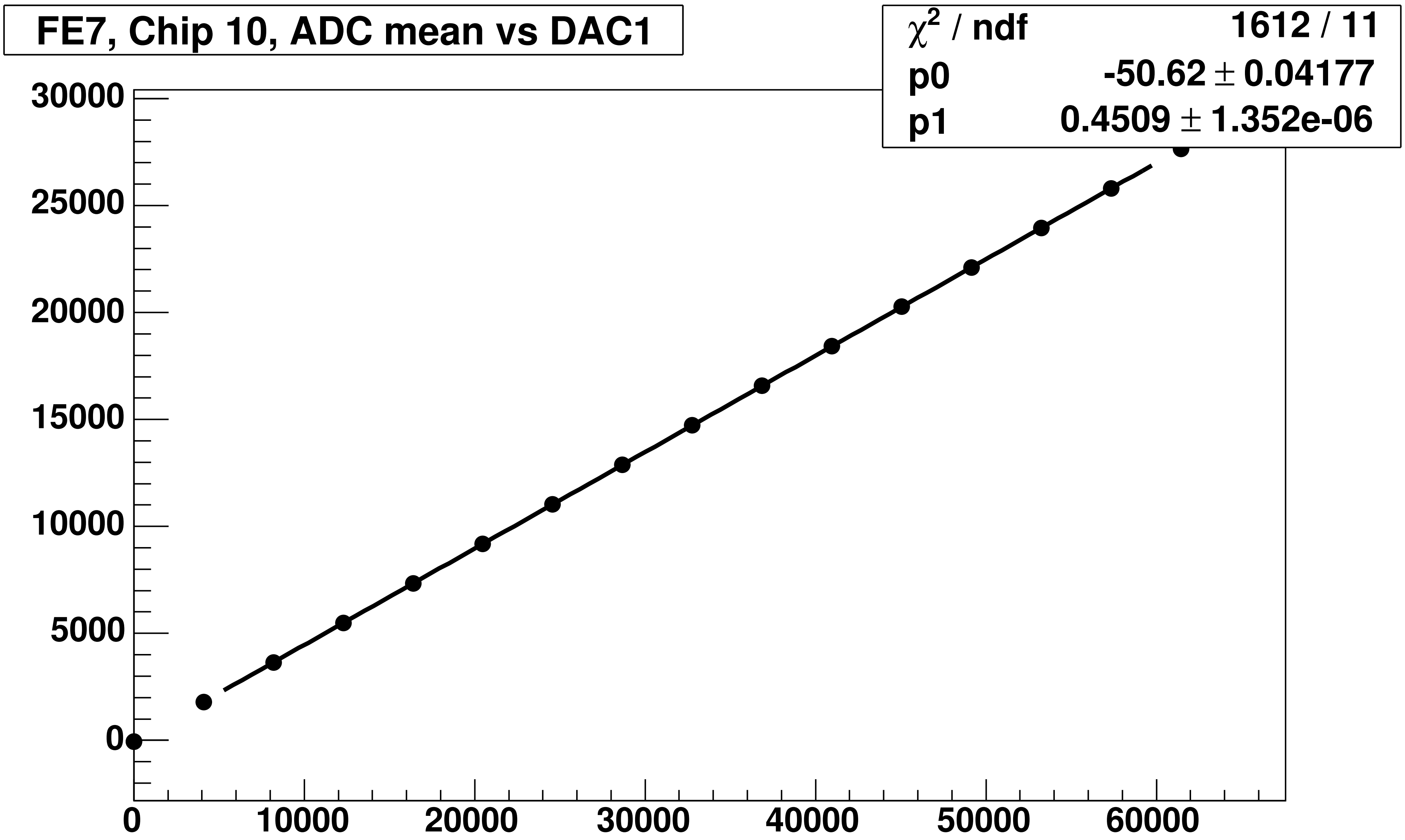


FE7, Chip 10, ADC mean vs DAC0
χ^2 / ndf 30.23 / 11
p0 -52.05 ± 0.0408
p1 -3.569e-06 ± 1.117e-06
-51.9
-52
-52.1
-52.2
-52.3
-52.4
-52.5
0
10000
20000
30000
40000
50000
60000

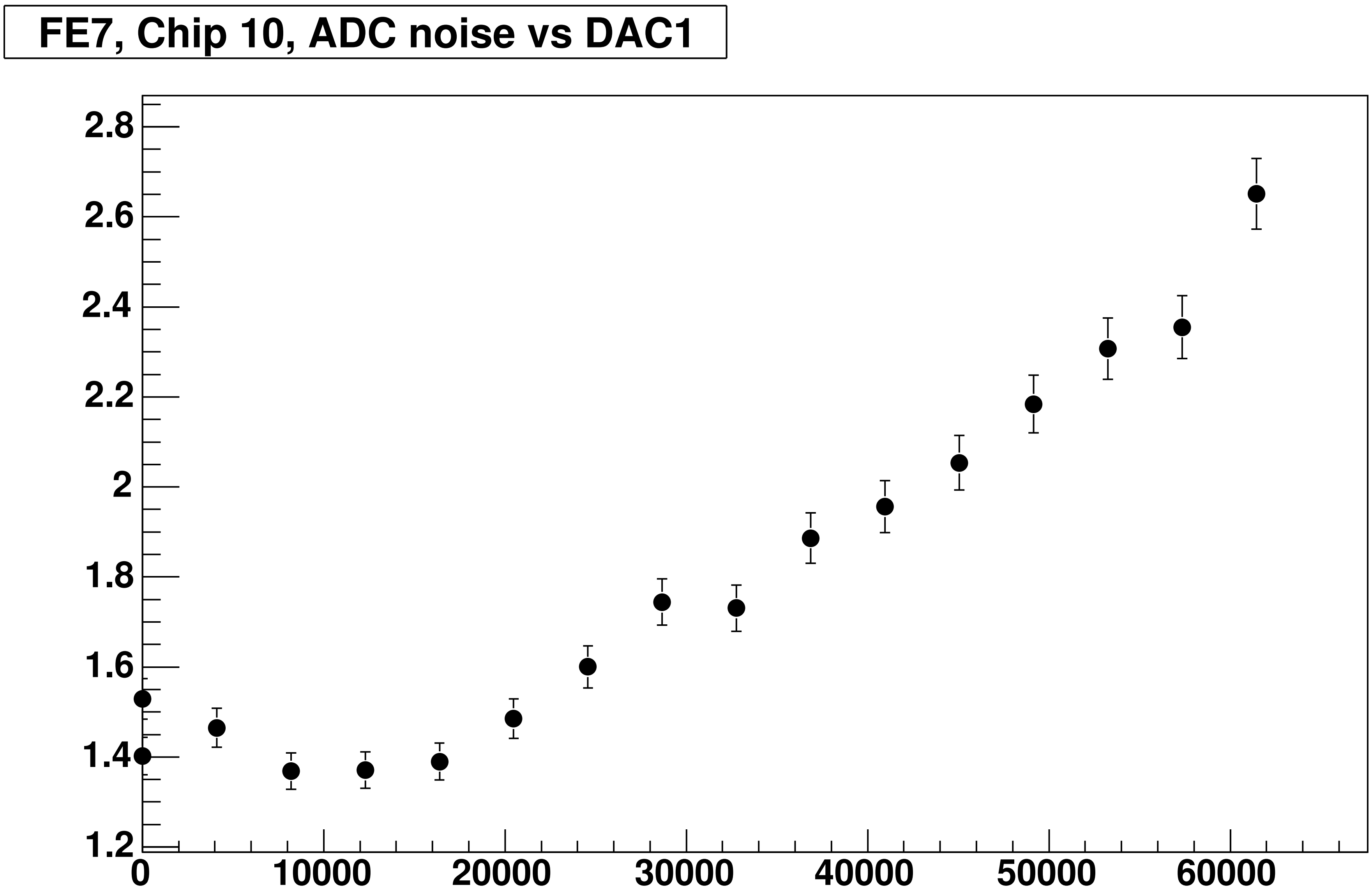

FE7, Chip 10, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

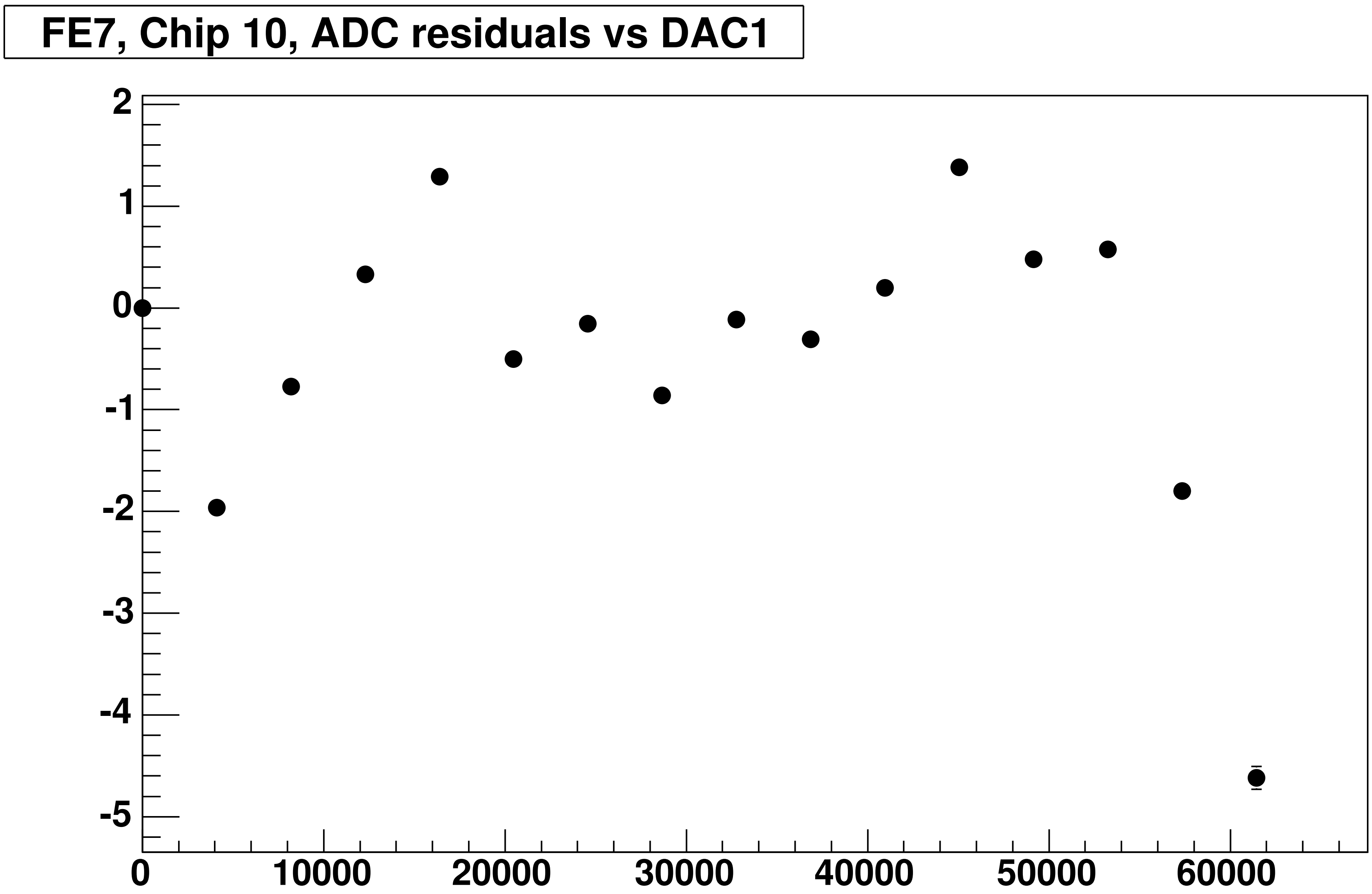


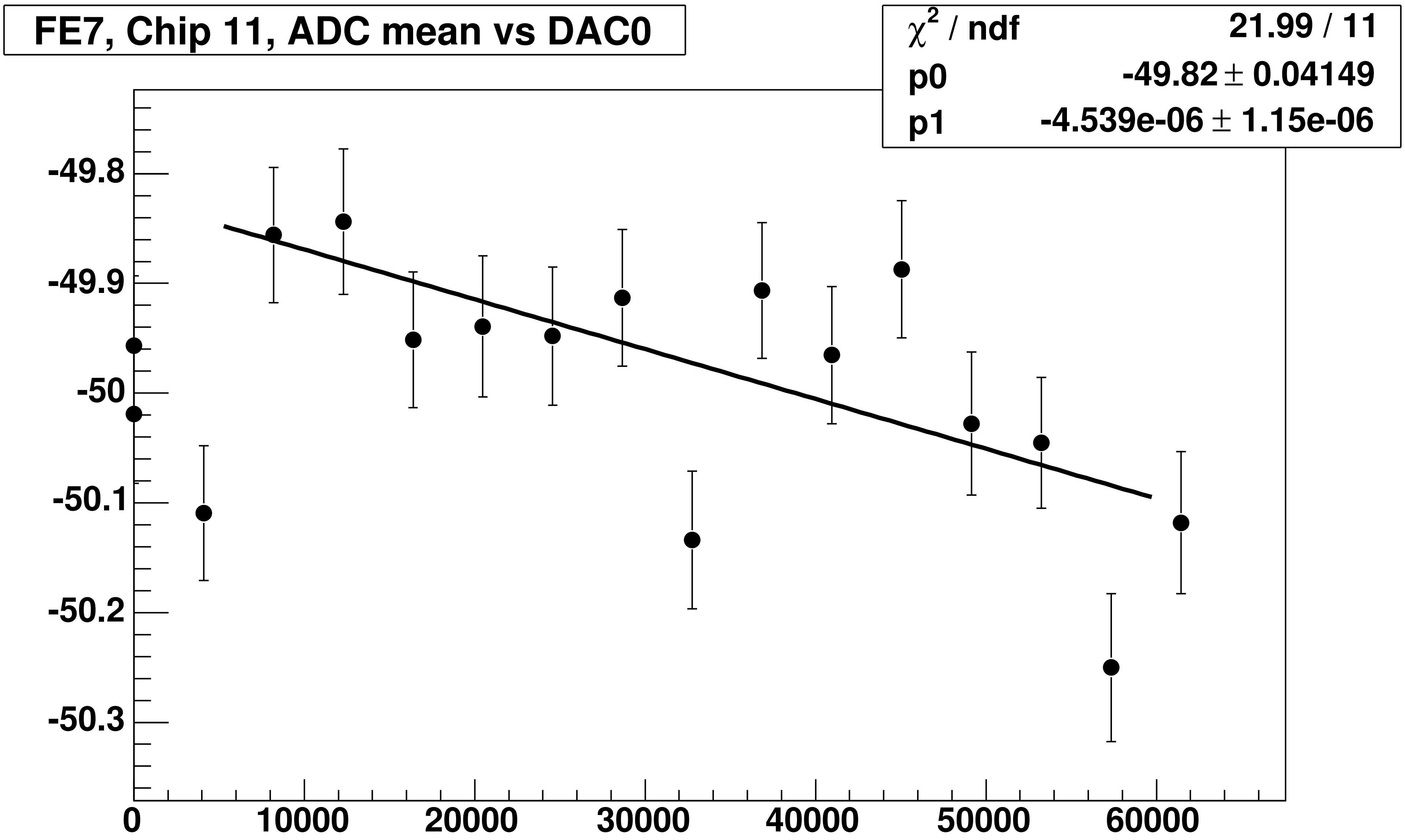
FE7, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

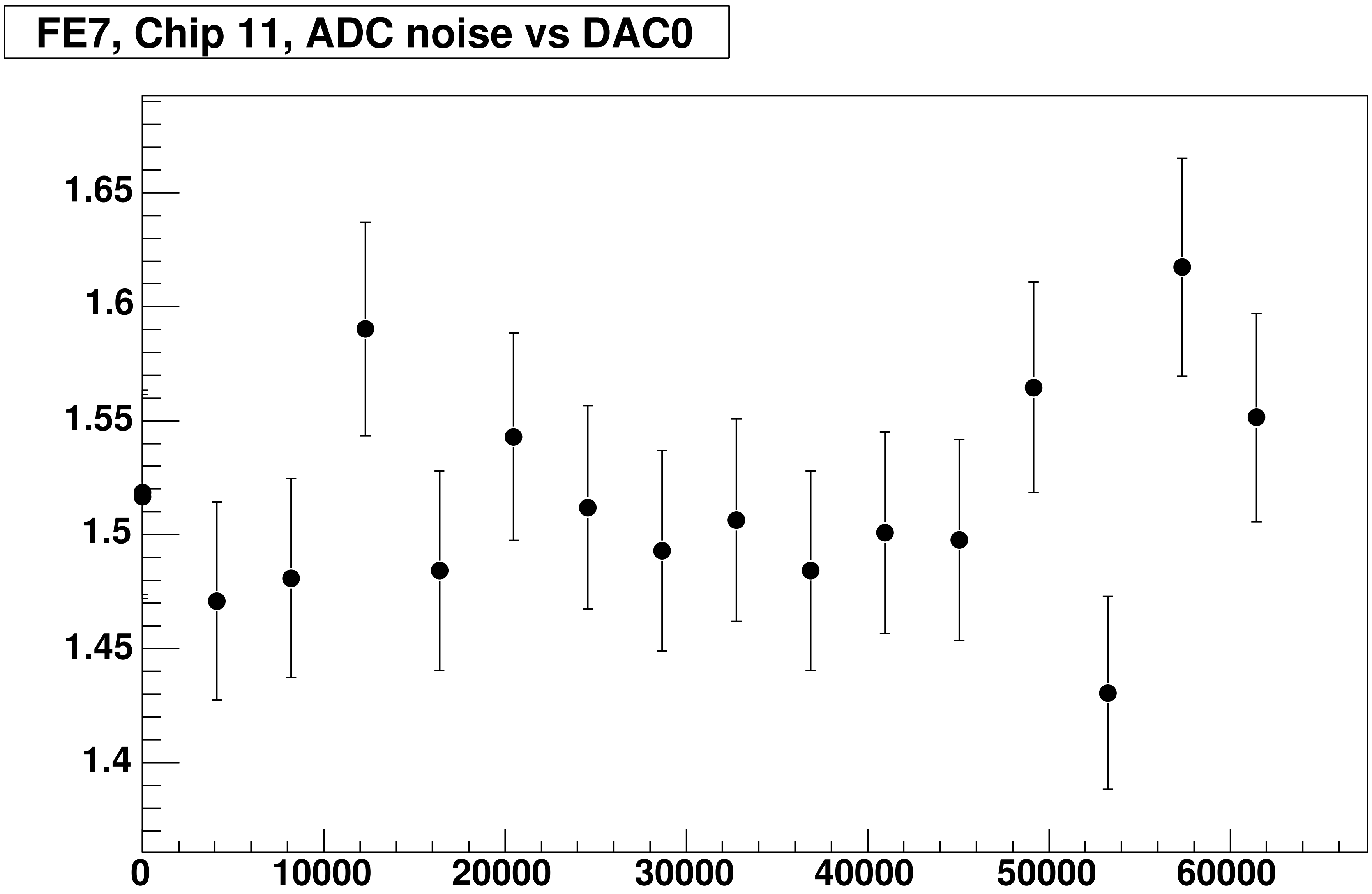


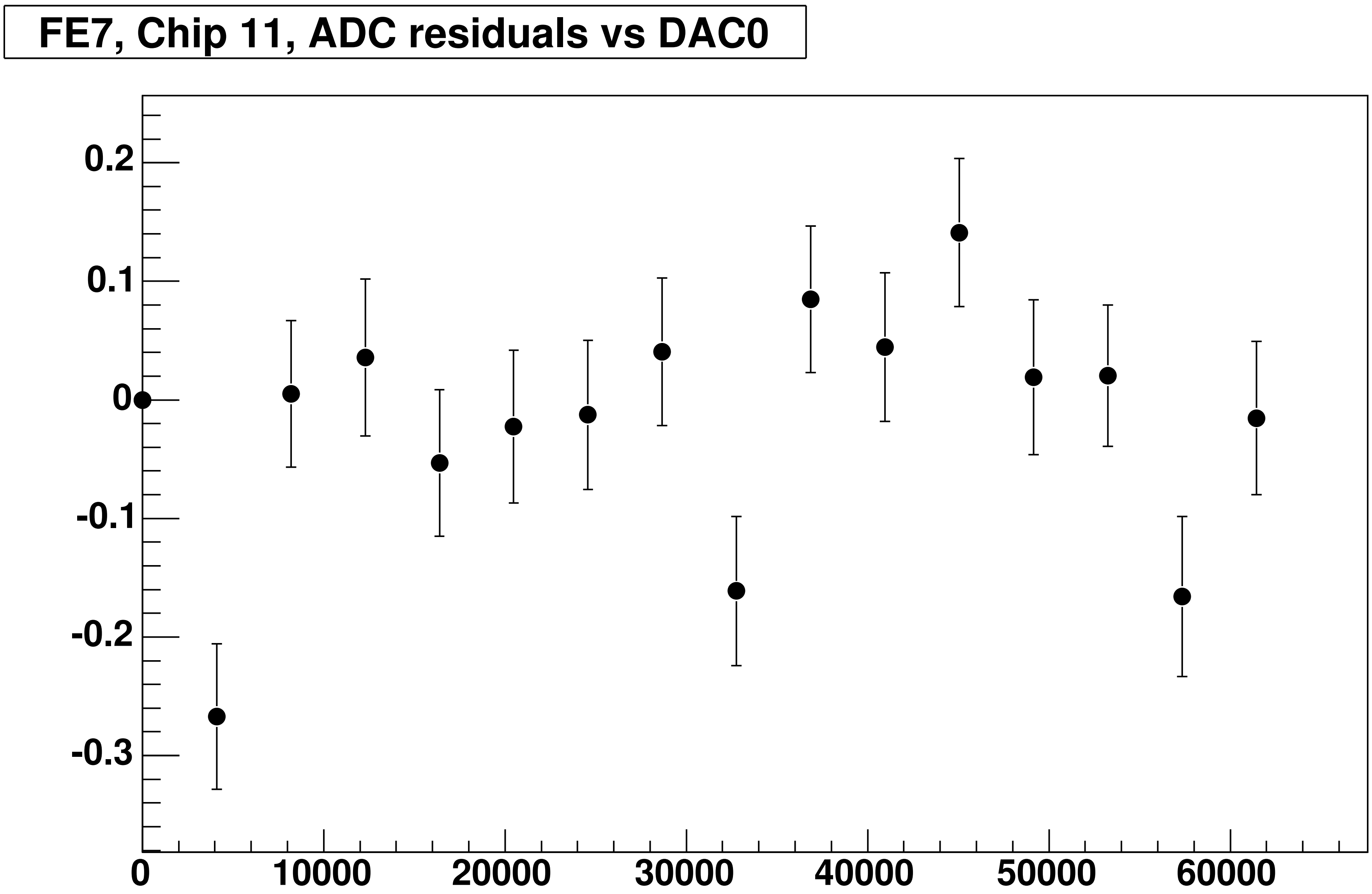
FE7, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1612 / 11
p0 -50.62 ± 0.04177
p1 0.4509 ± 1.352e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

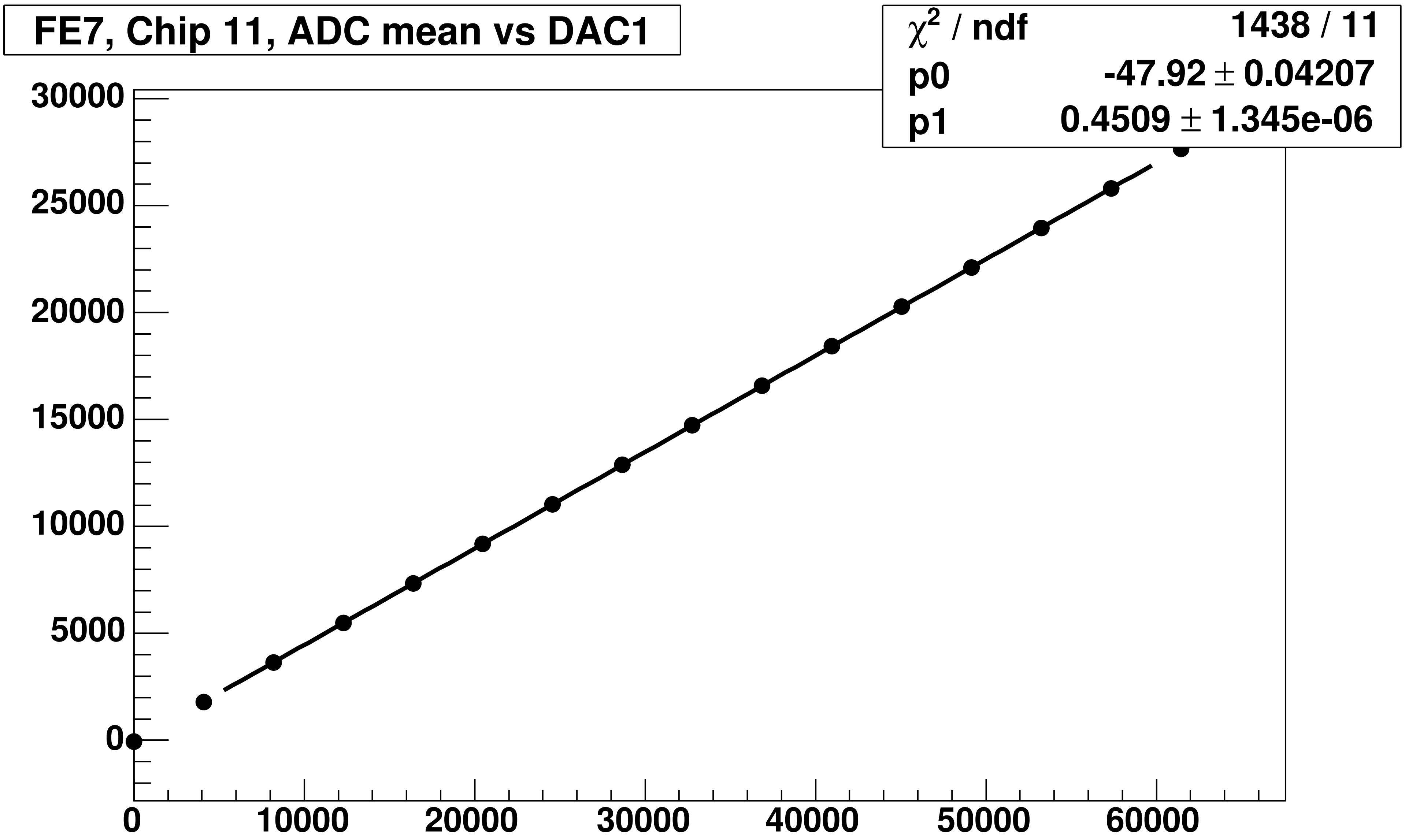

FE7, Chip 10, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

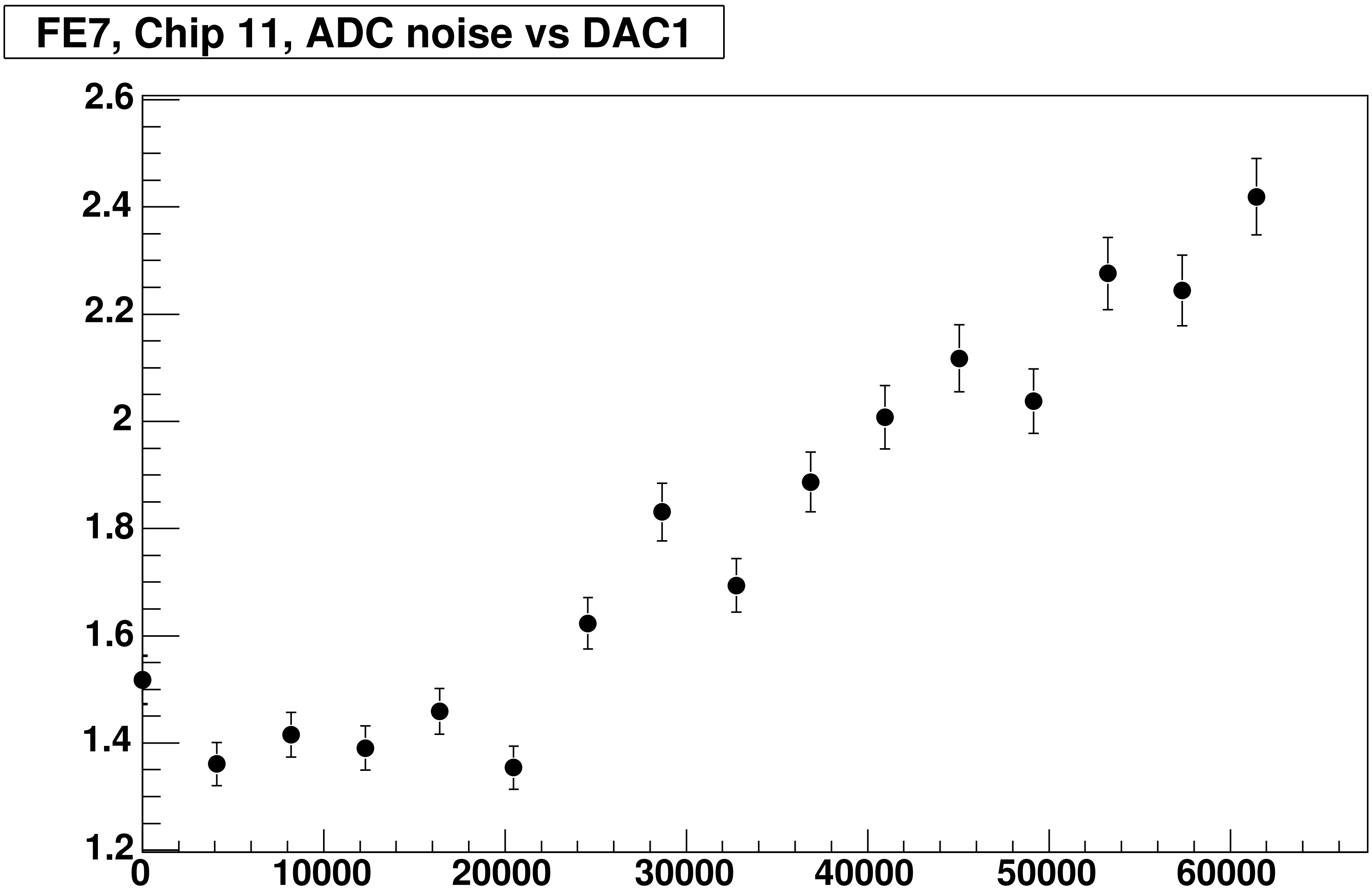

FE7, Chip 11, ADC mean vs DAC0
χ^2 / ndf 21.99 / 11
p0 -49.82 ± 0.04149
p1 -4.539e-06 ± 1.15e-06
-49.8
-49.9
-50
-50.1
-50.2
-50.3
0
10000
20000
30000
40000
50000
60000

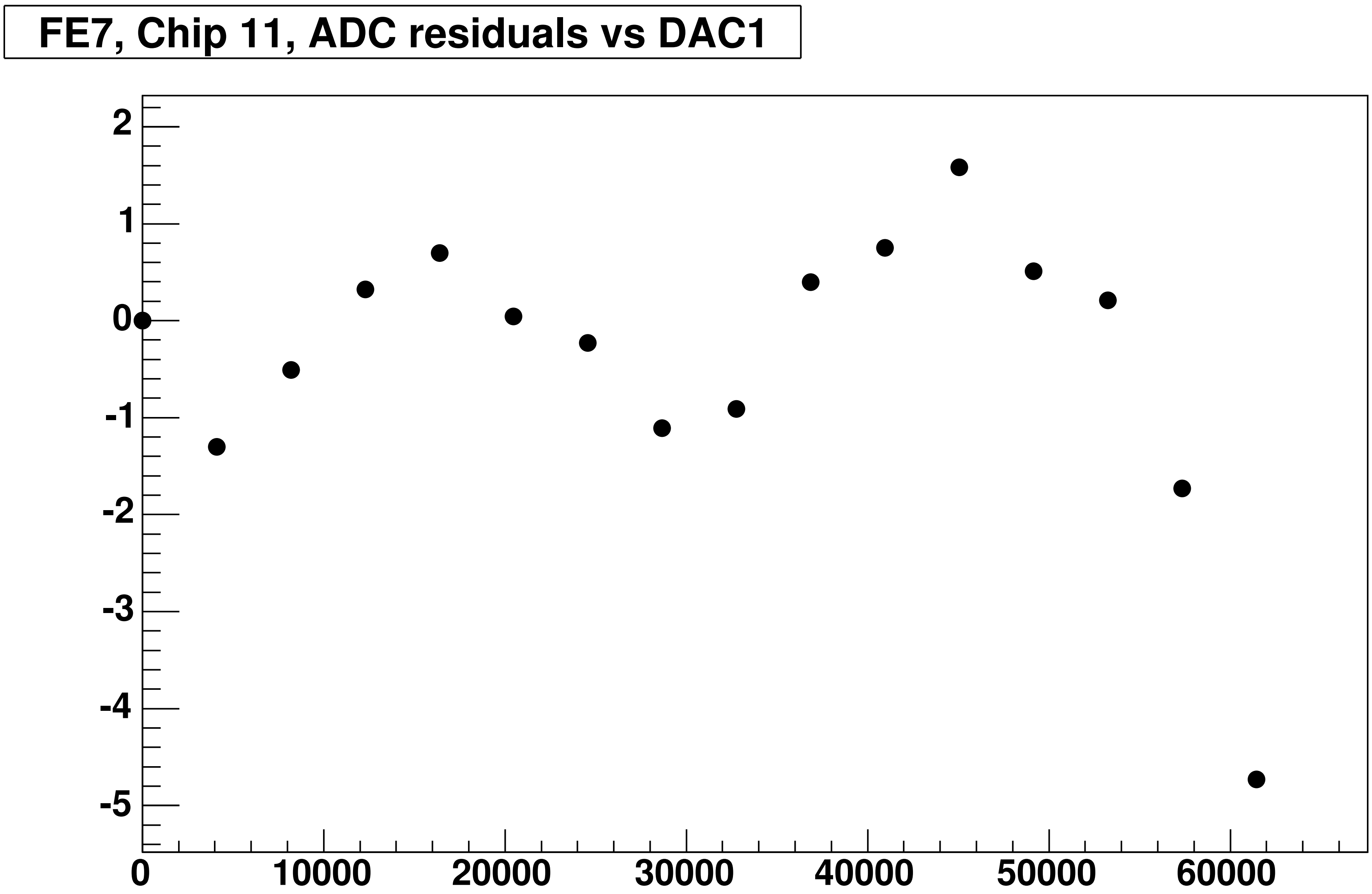

FE7, Chip 11, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

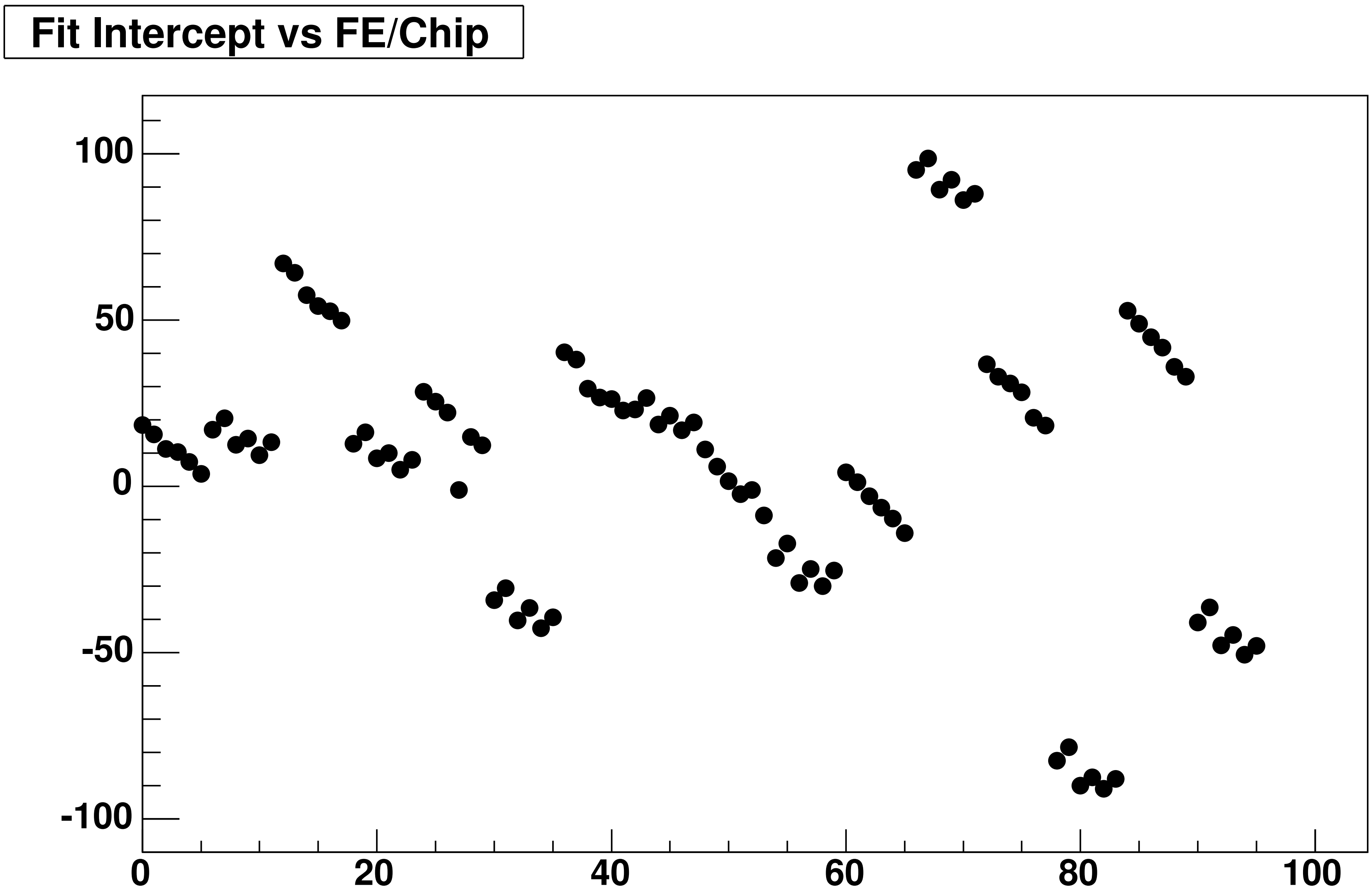

FE7, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



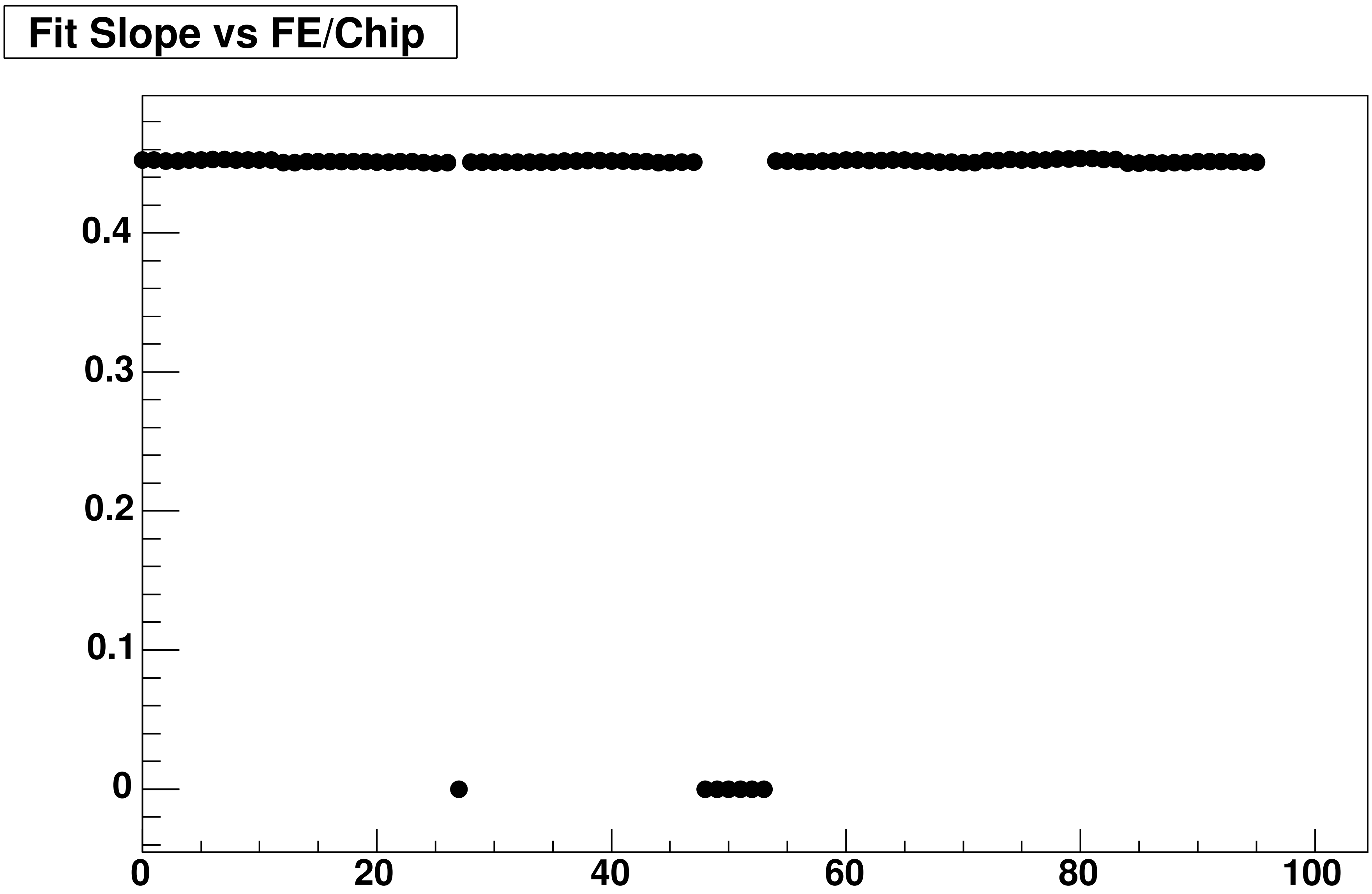
FE7, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1438 / 11
p0 -47.92 ± 0.04207
p1 0.4509 ± 1.345e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



Fit Intercept vs FE/Chip
100
50
0
-50
-100
0
20
40
60
80
100


Fit Slope vs FE/Chip
0.4
0.3
0.2
0.1
0
0
20
40
60
80
100