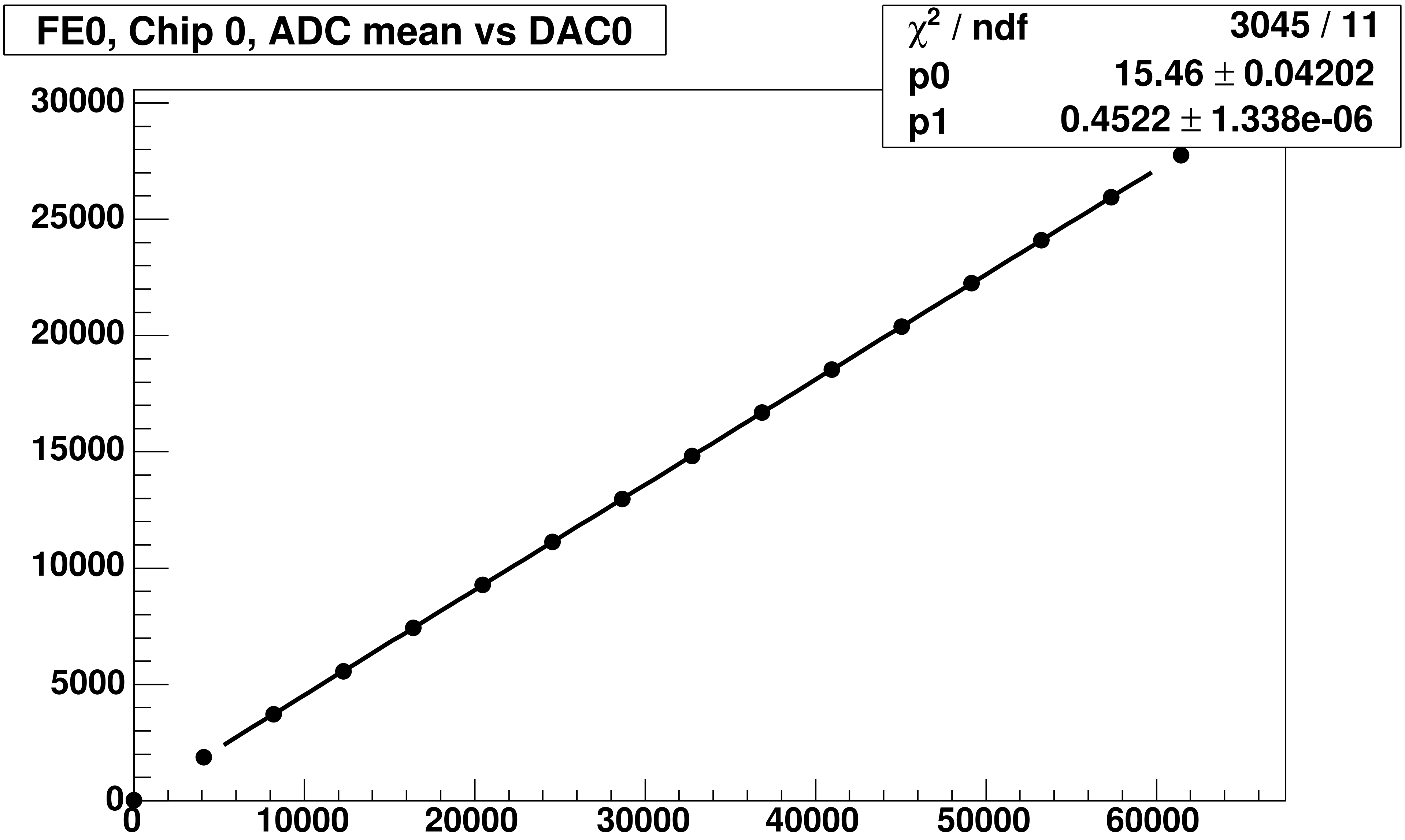
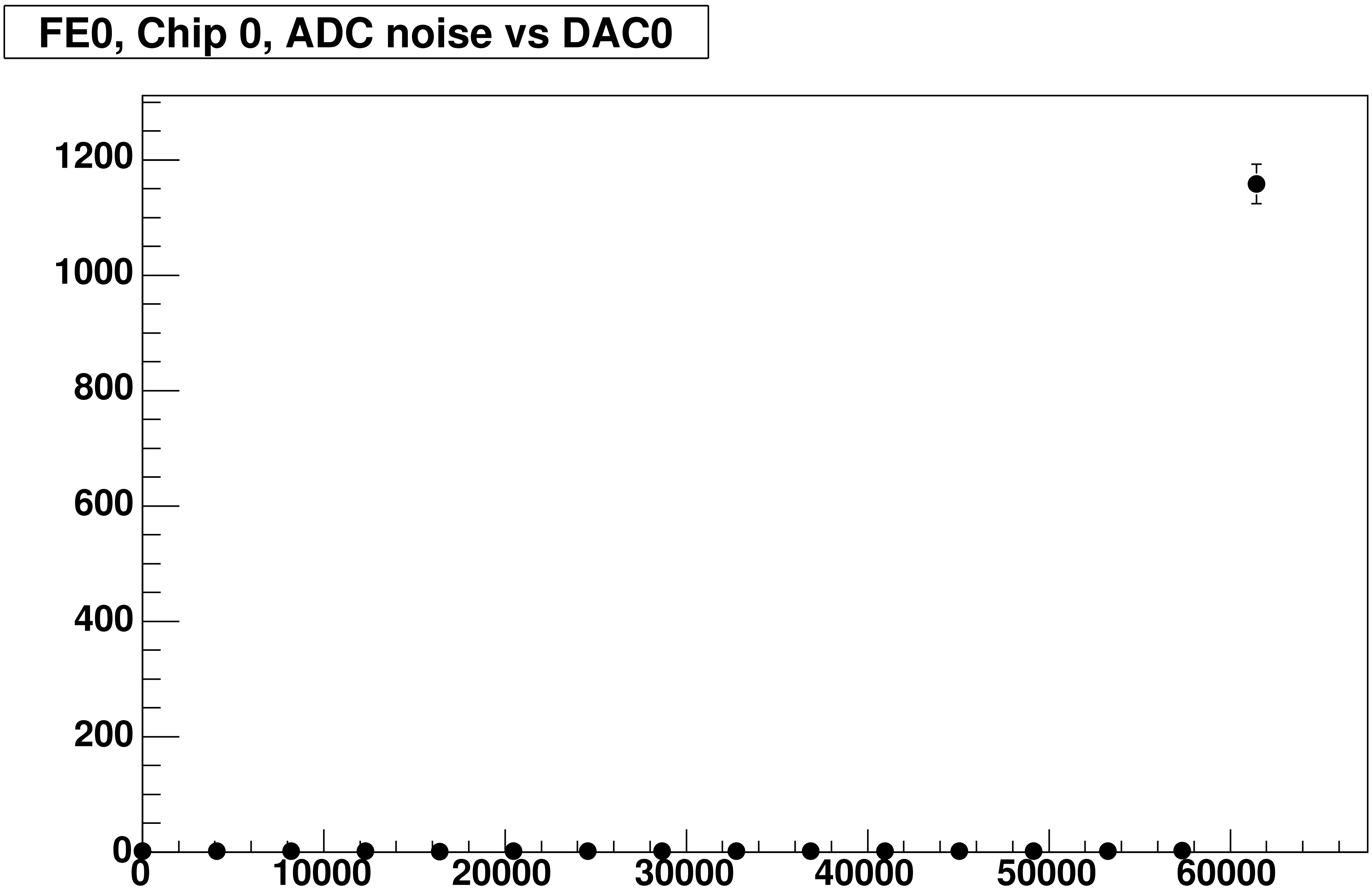
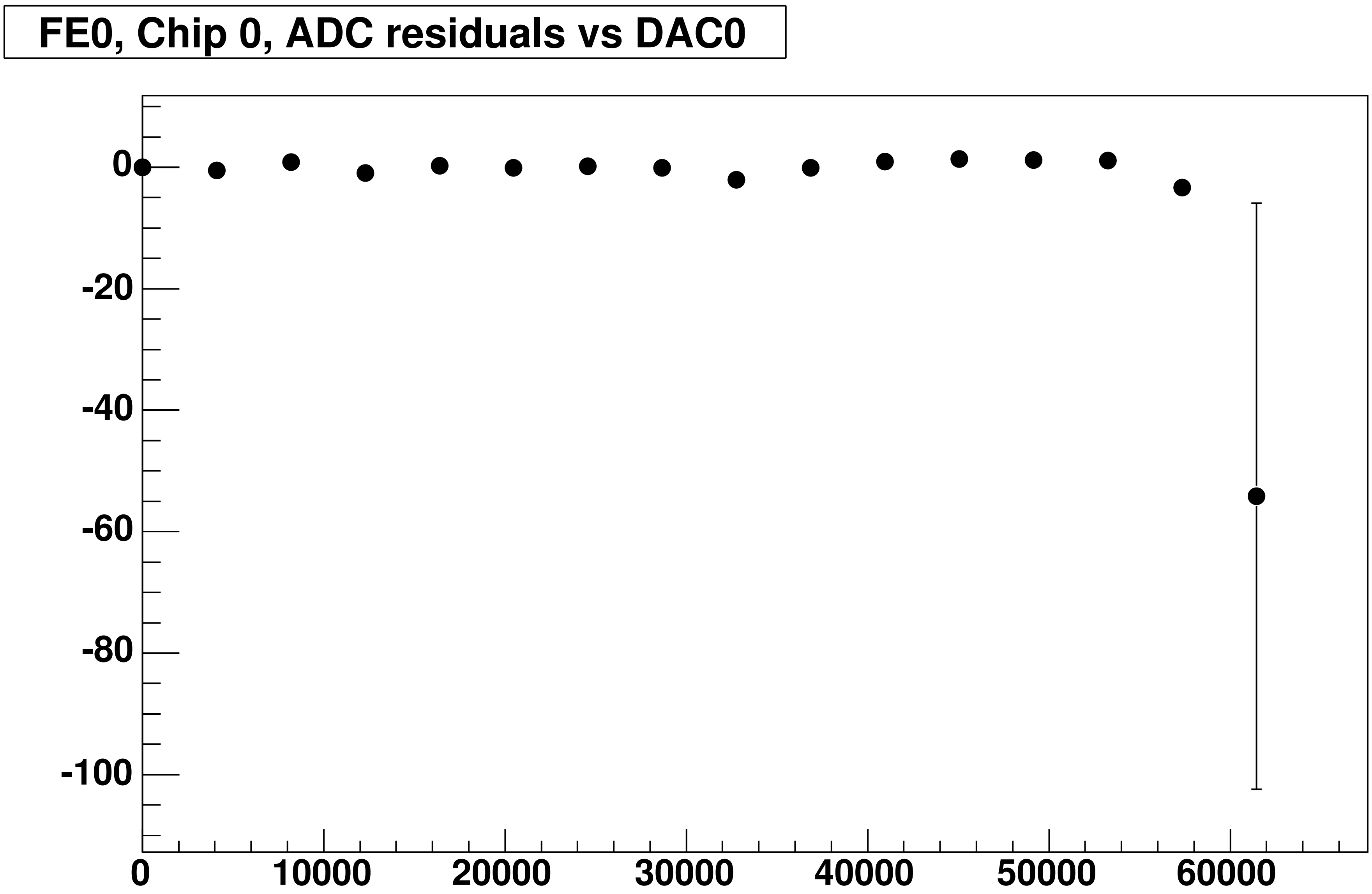
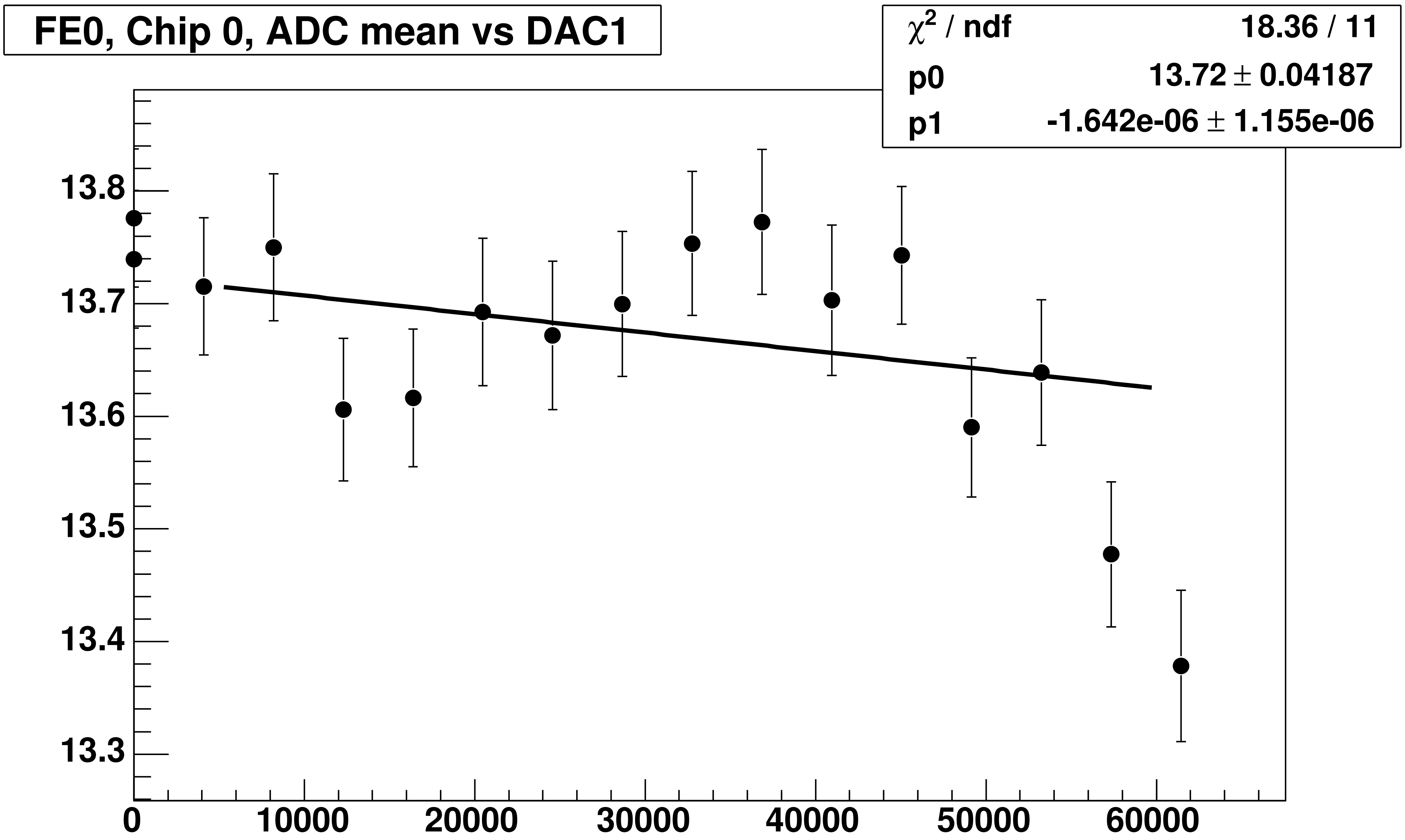


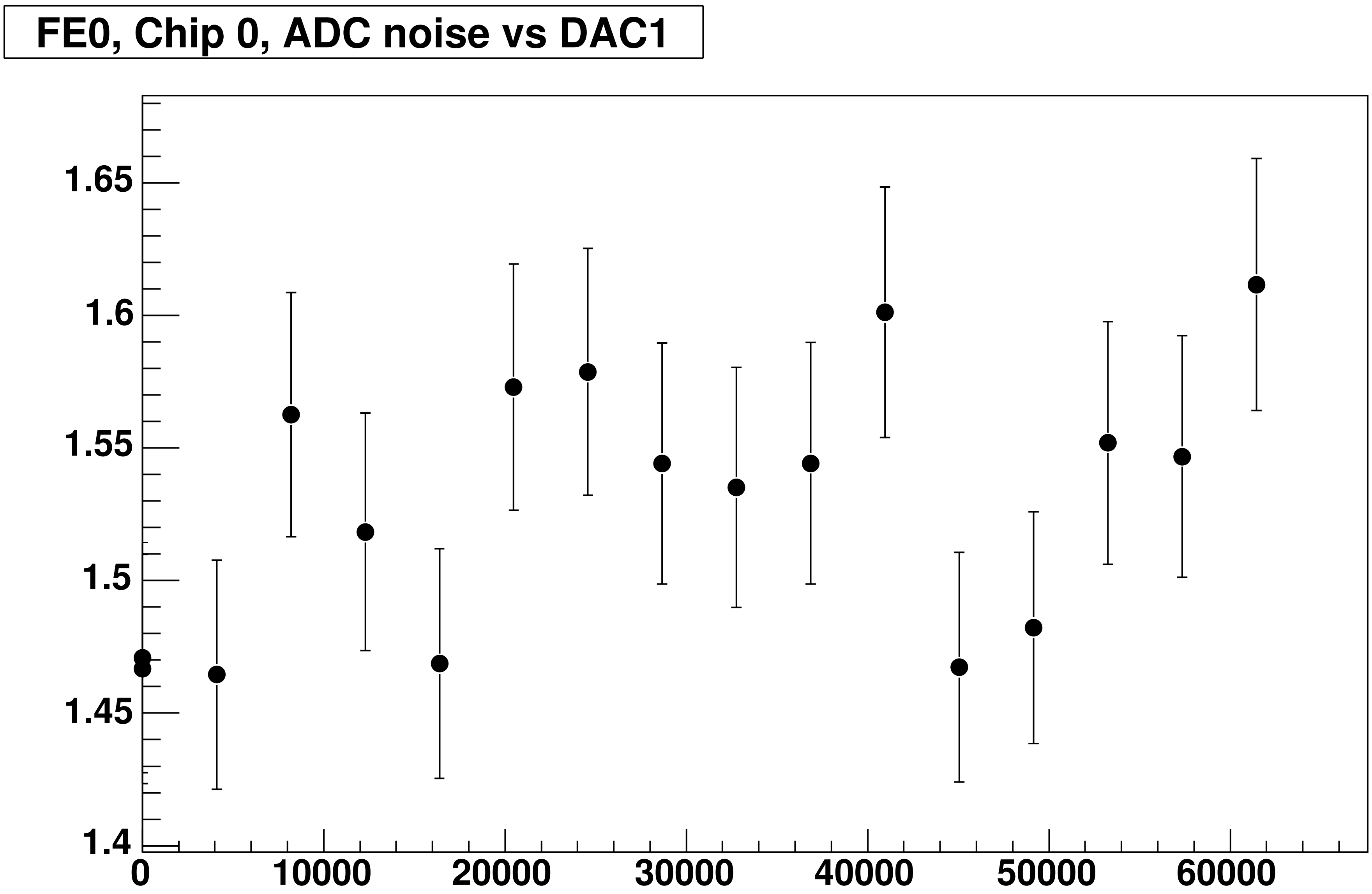
FE0, Chip 0, ADC mean vs DAC0
χ^2 / ndf 3045 / 11
p0 15.46 ± 0.04202
p1 0.4522 ± 1.338e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE0, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

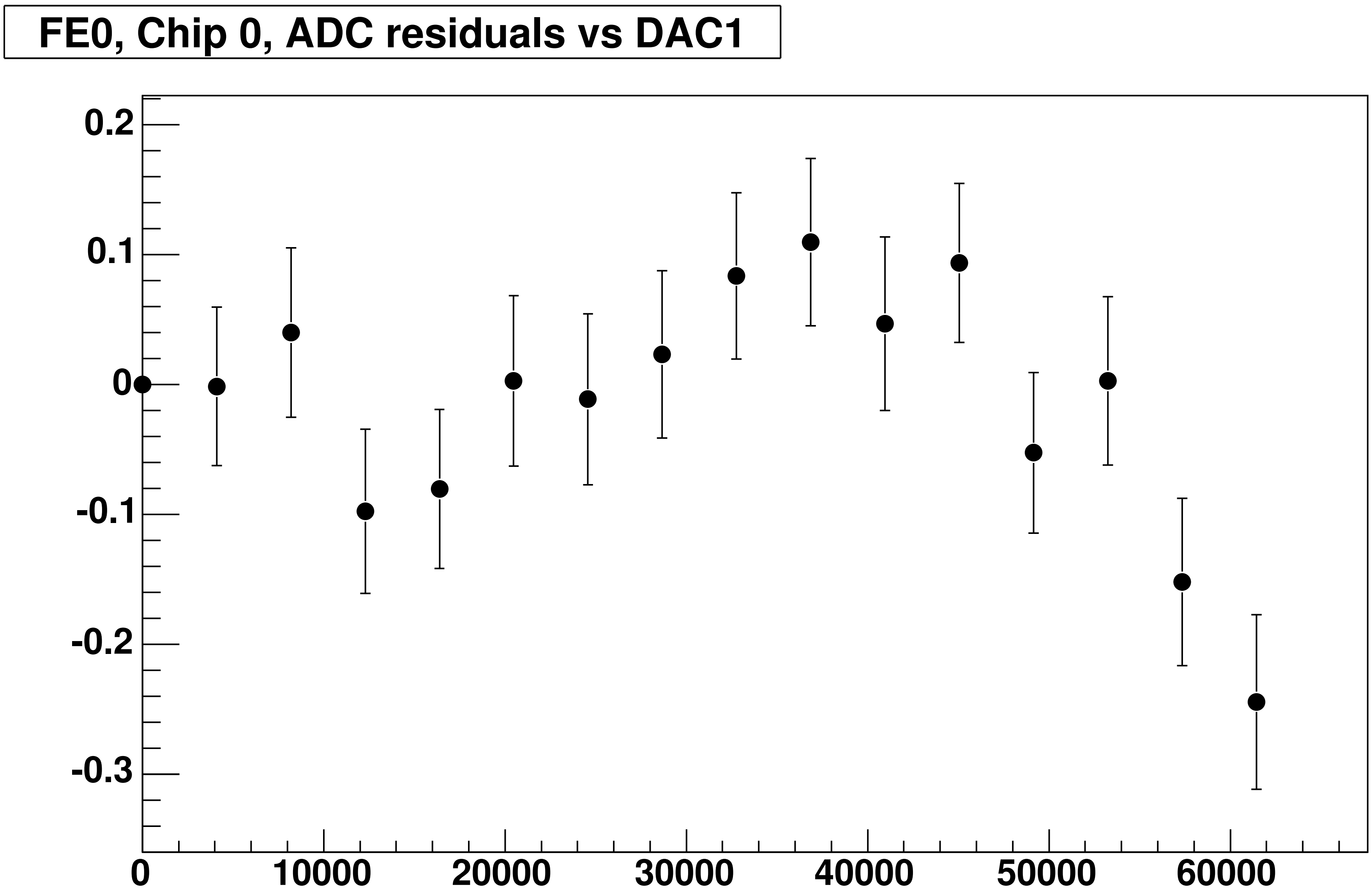

FE0, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

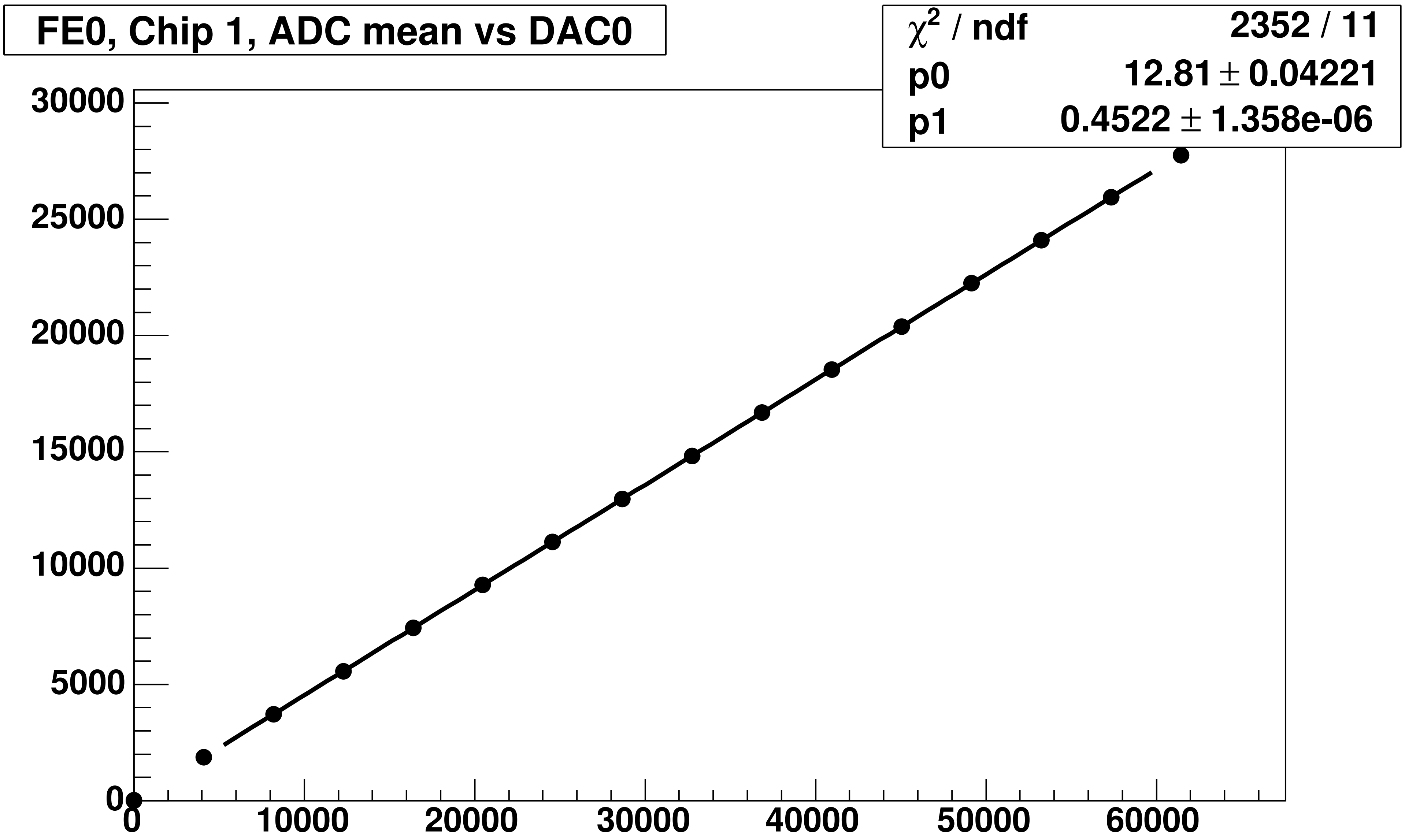


FE0, Chip 0, ADC mean vs DAC1
χ^2 / ndf 18.36 / 11
p0 13.72 ± 0.04187
p1 -1.642e-06 ± 1.155e-06
13.8
13.7
13.6
13.5
13.4
13.3
0
10000
20000
30000
40000
50000
60000

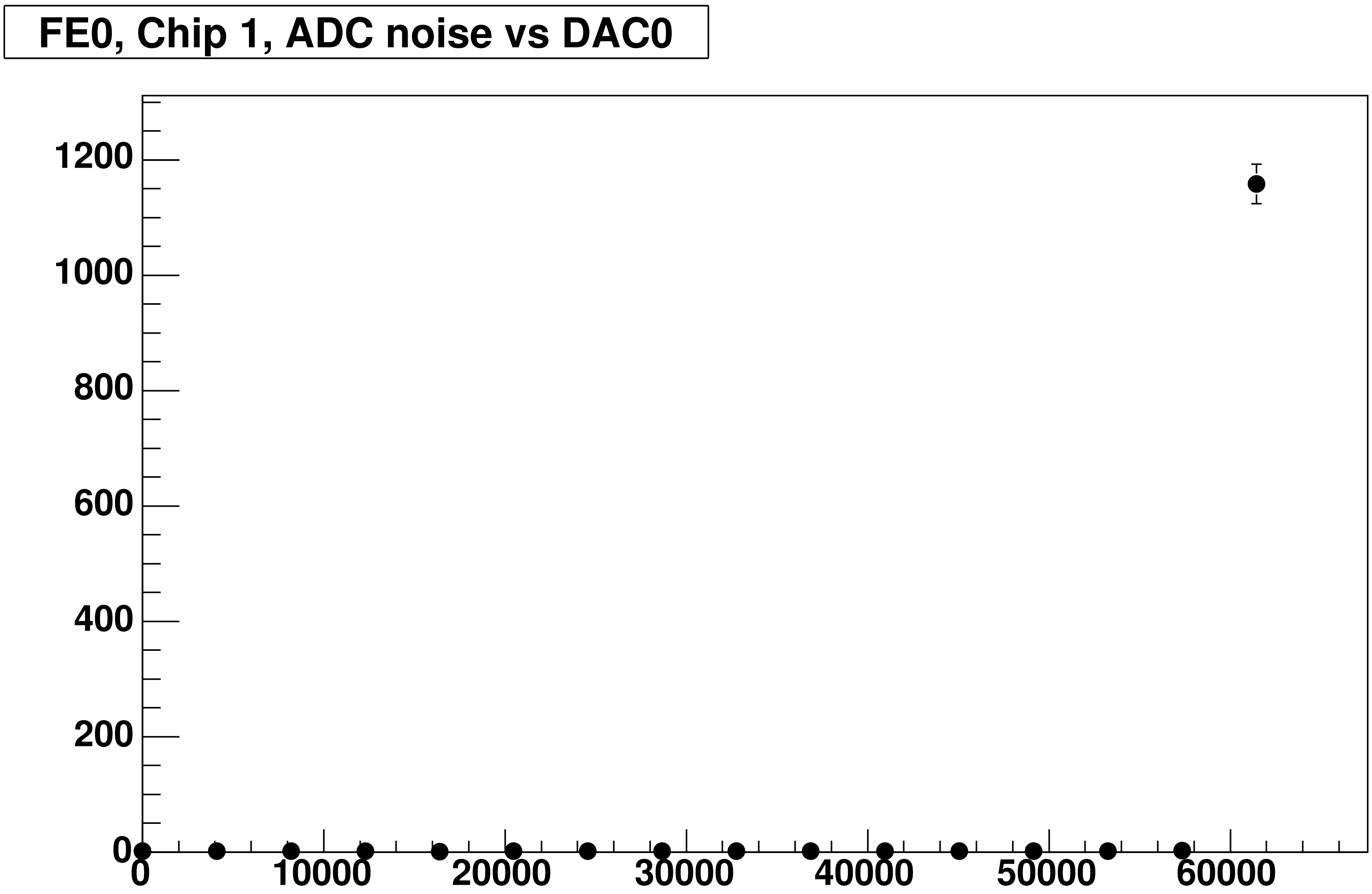


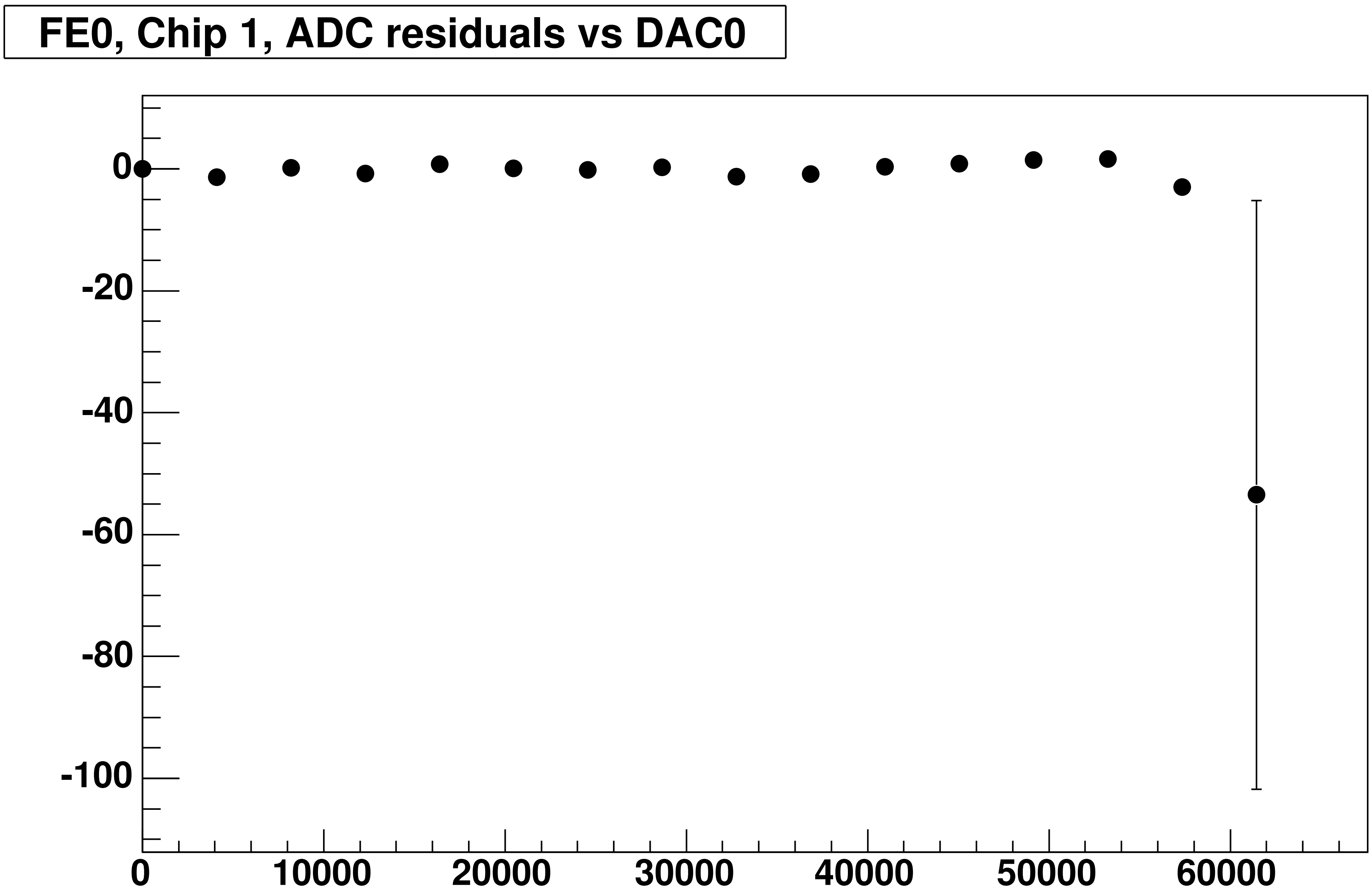
FE0, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

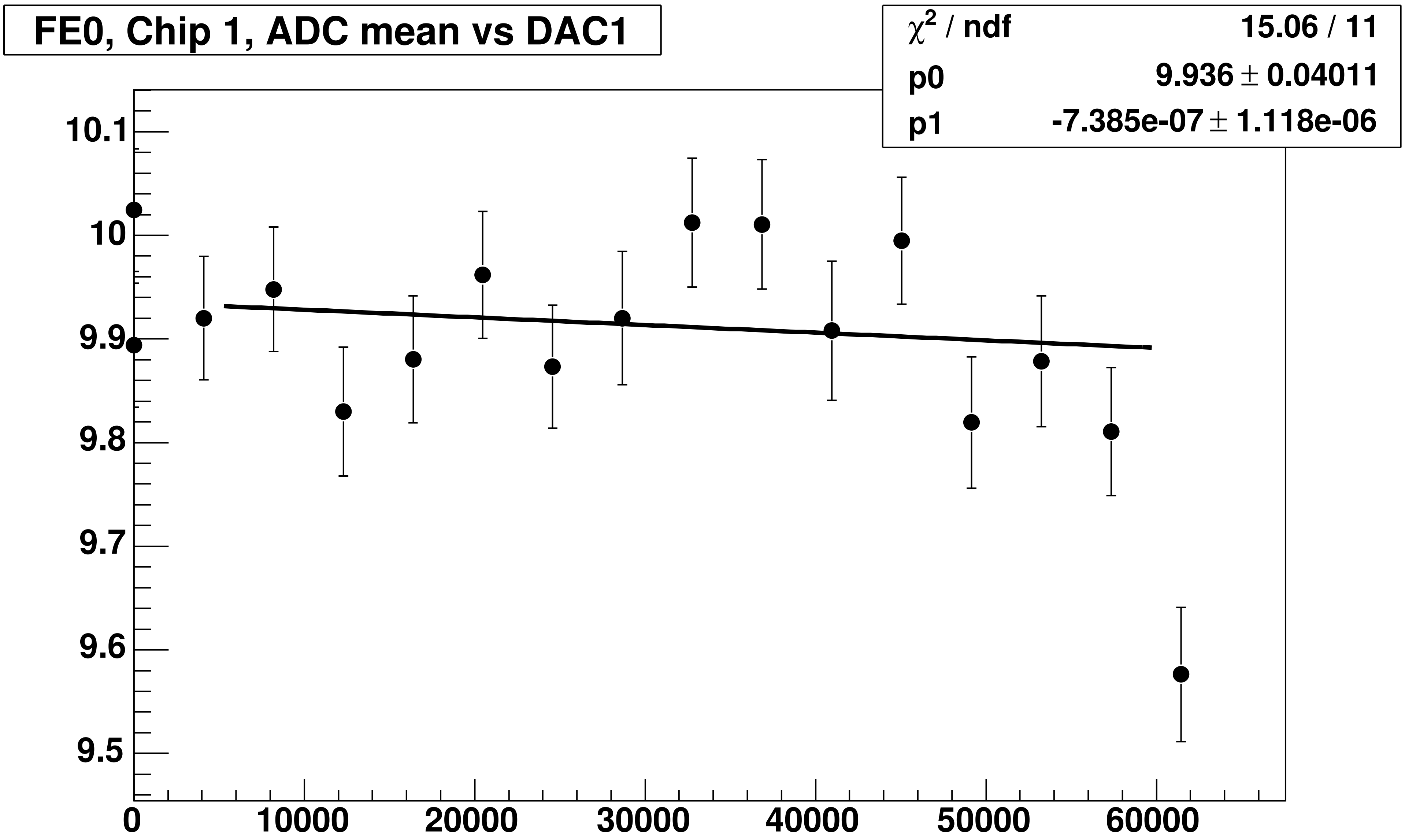

FE0, Chip 0, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



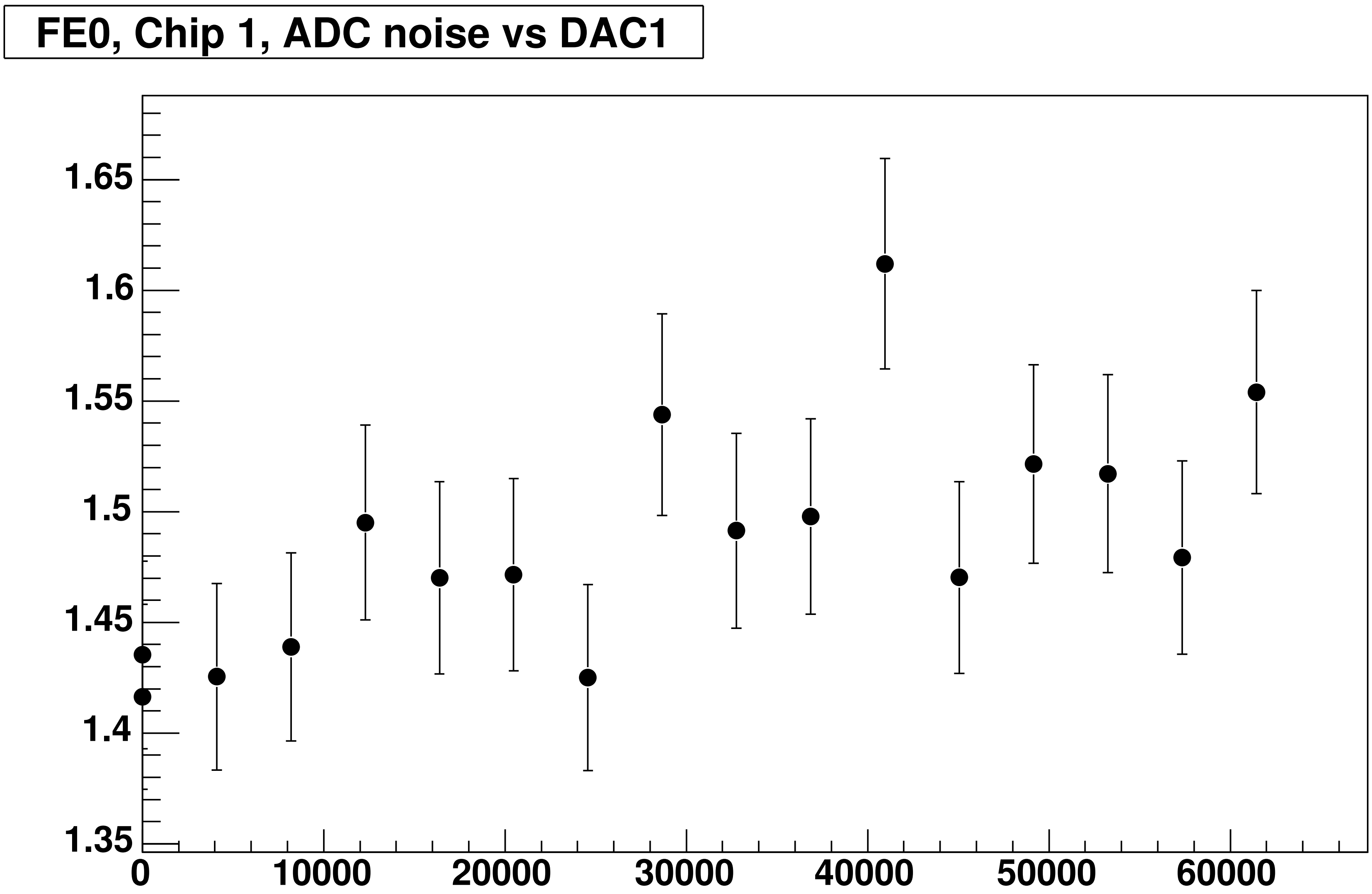
FE0, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2352 / 11
p0 12.81 ± 0.04221
p1 0.4522 ± 1.358e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


FE0, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

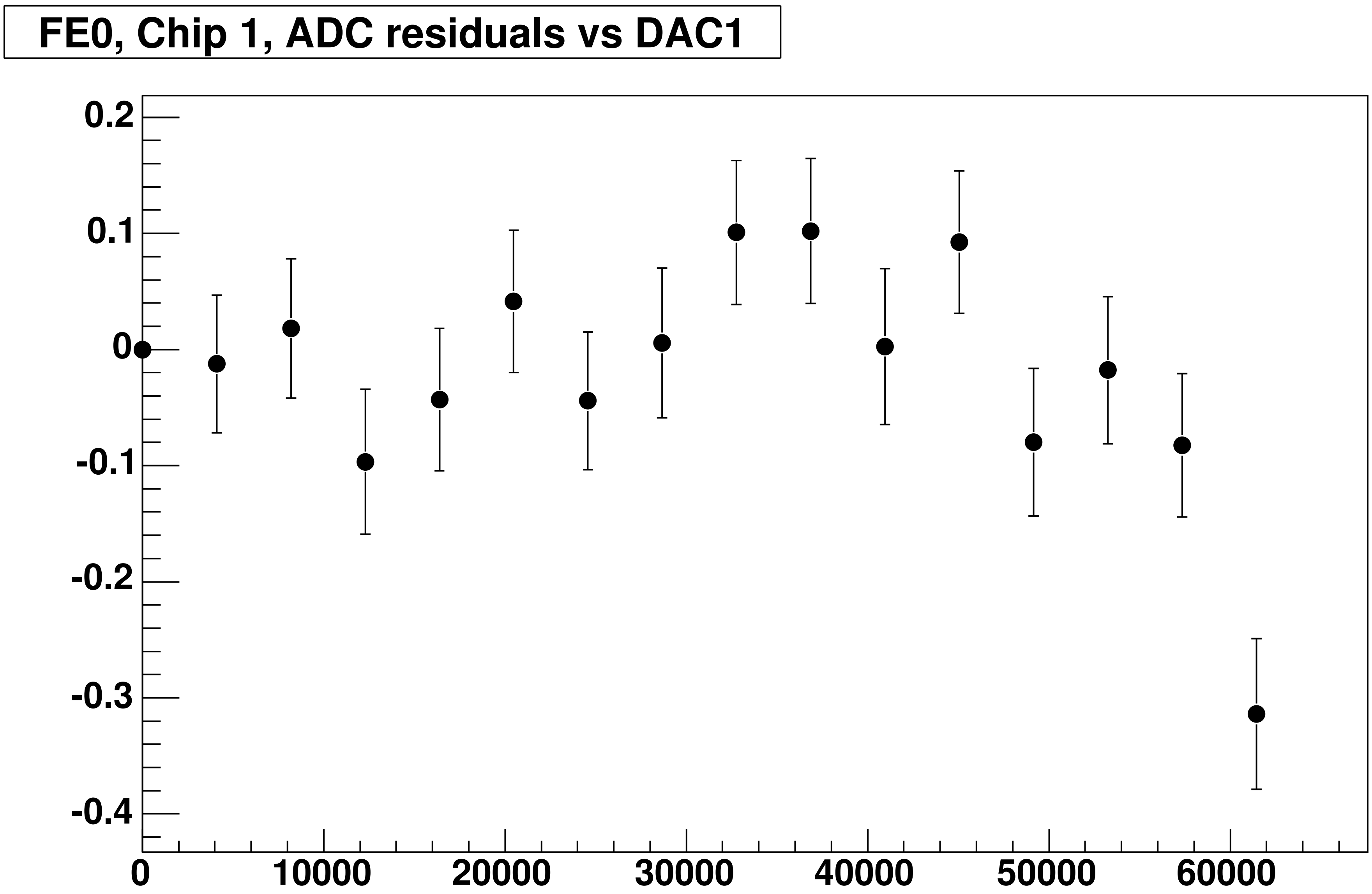

FE0, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

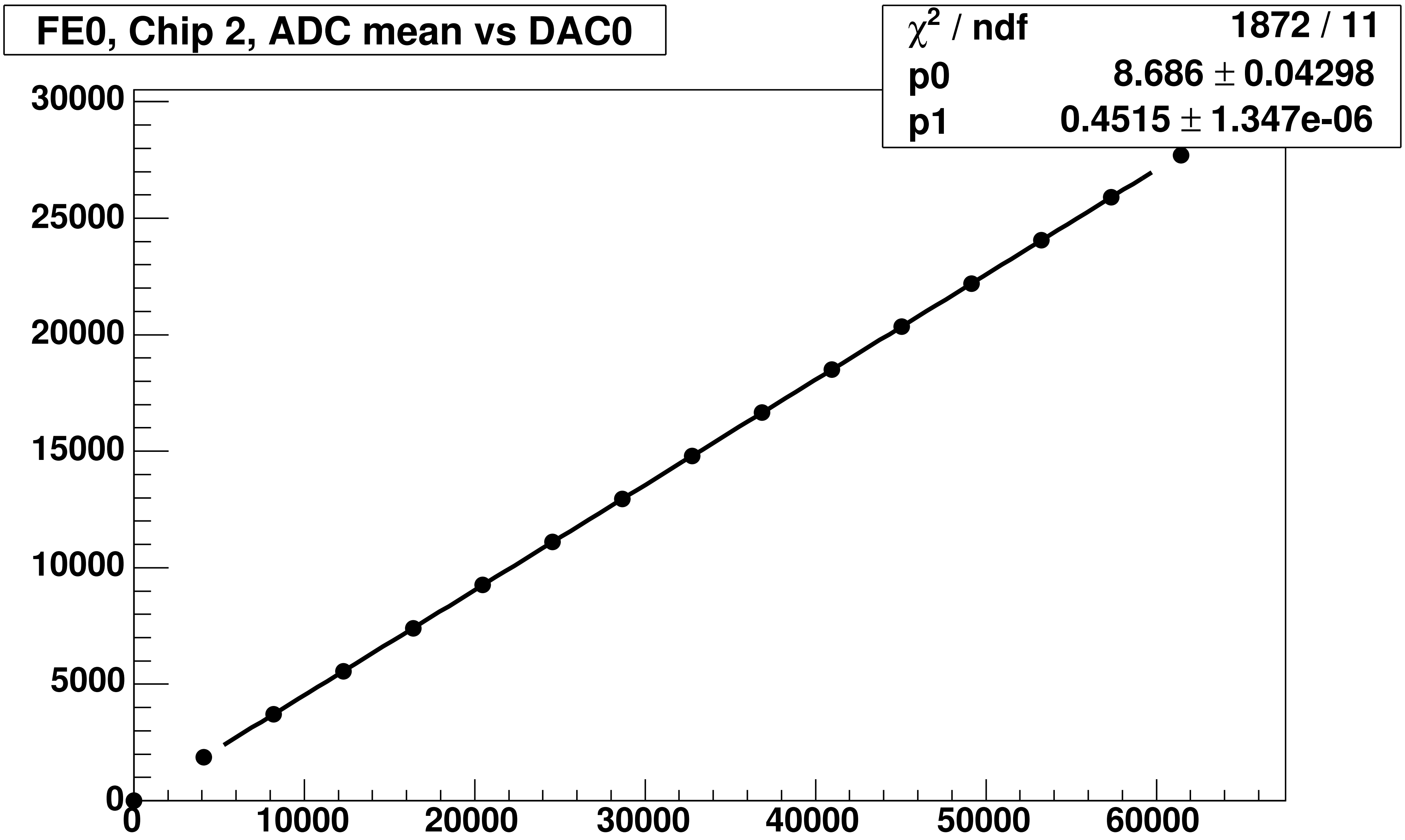


FE0, Chip 1, ADC mean vs DAC1
χ^2 / ndf 15.06 / 11
p0 9.936 ± 0.04011
p1 -7.385e-07 ± 1.118e-06
10.1
10
9.9
9.8
9.7
9.6
9.5
0
10000
20000
30000
40000
50000
60000

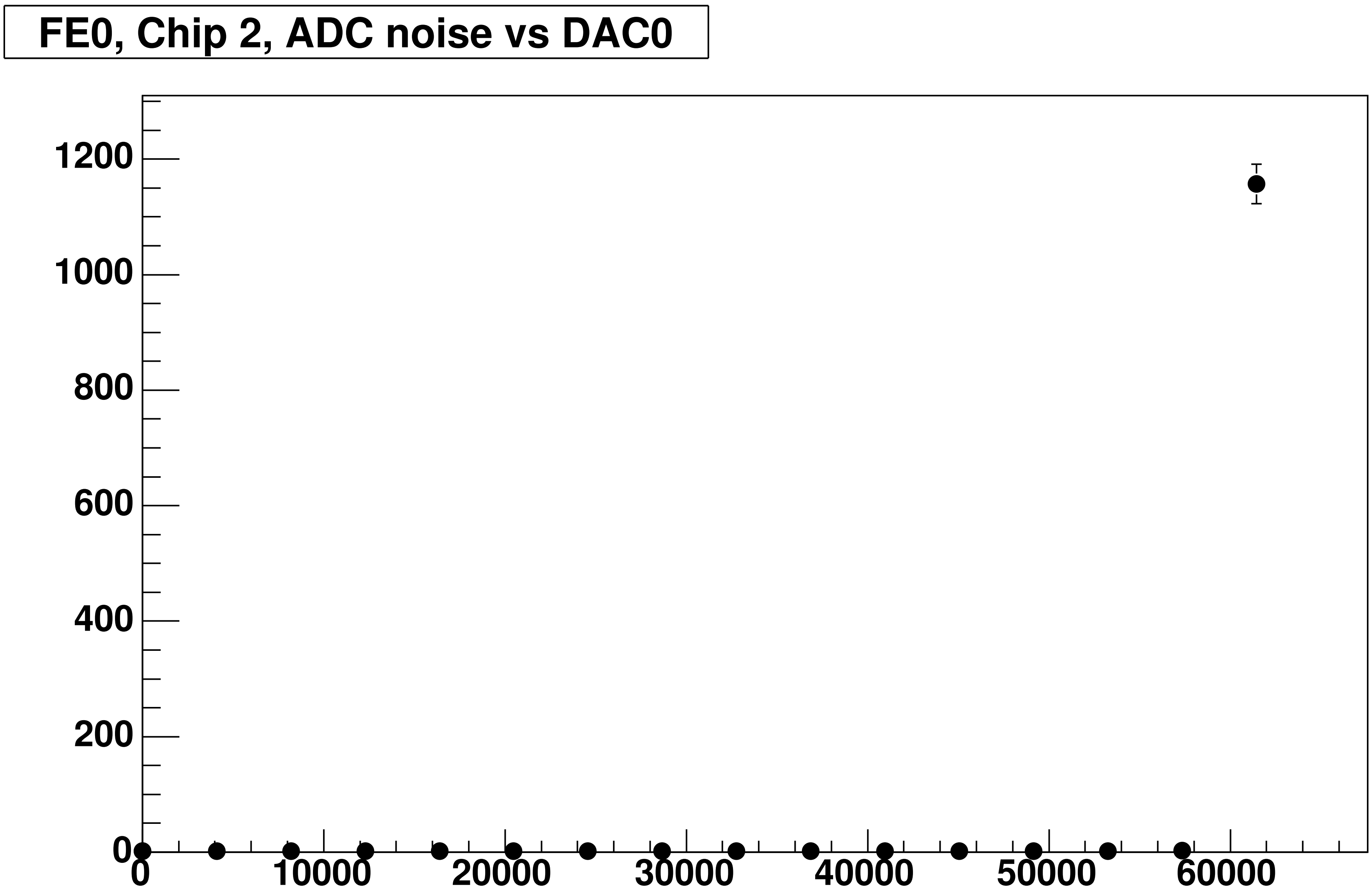


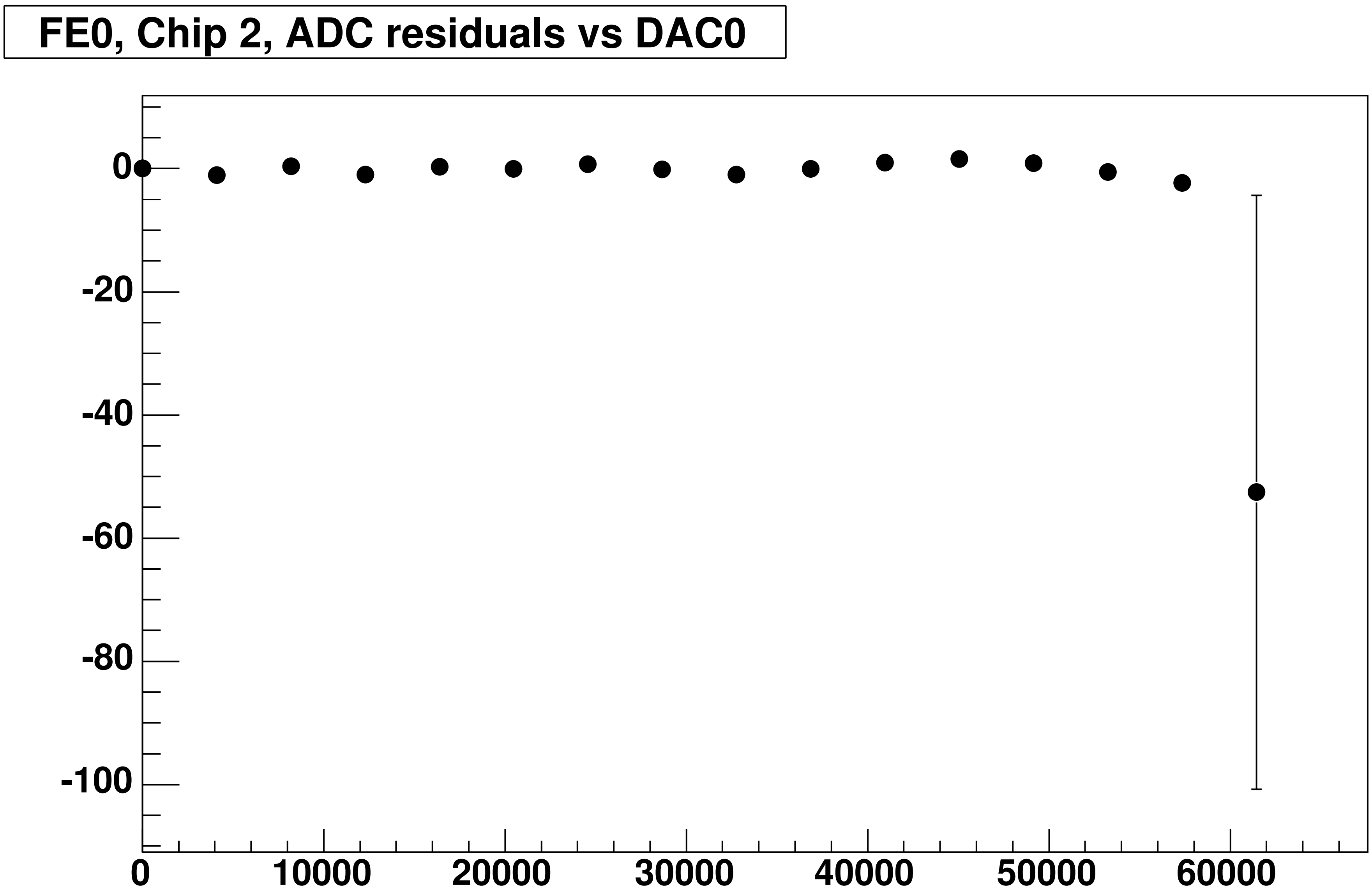
FE0, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

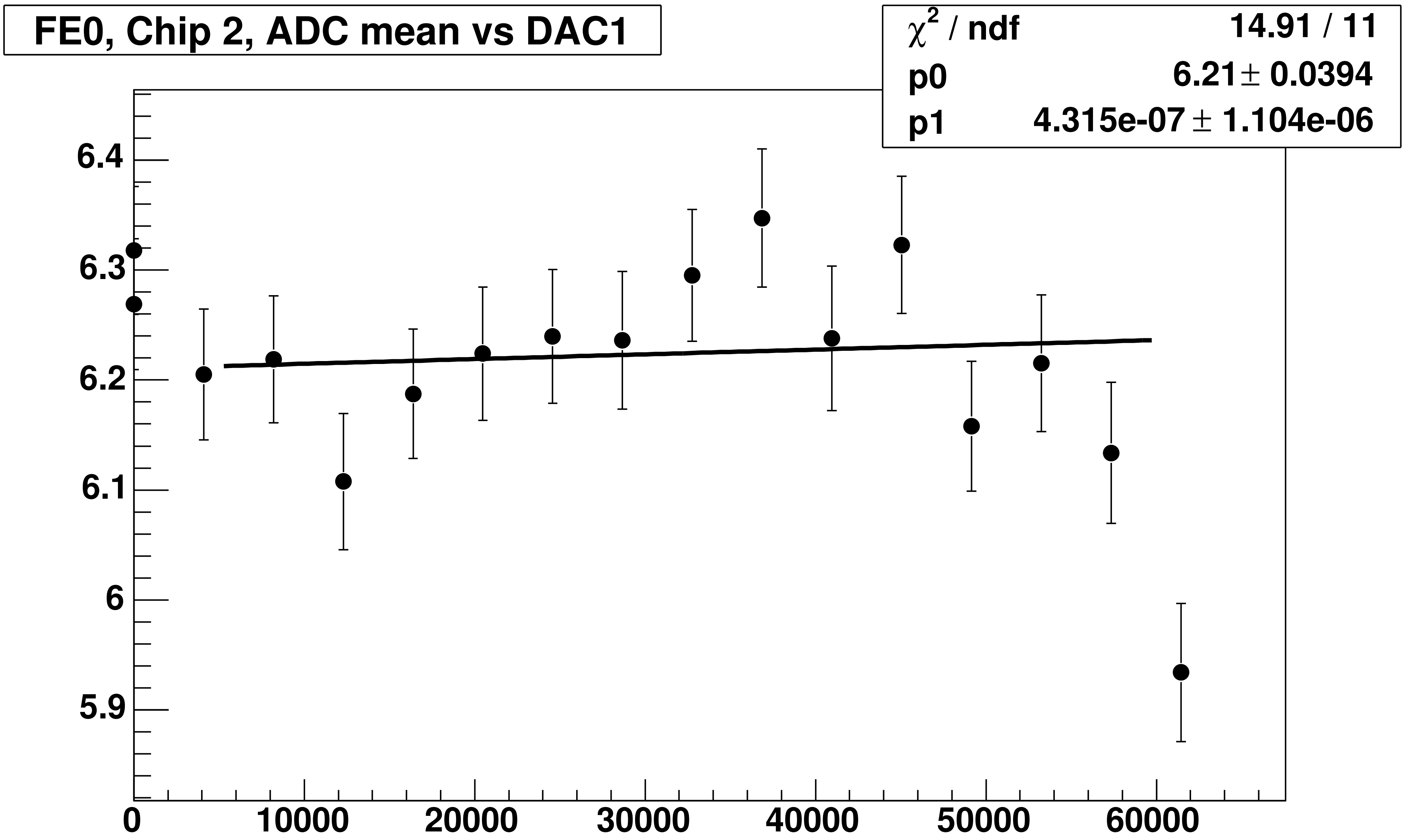

FE0, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



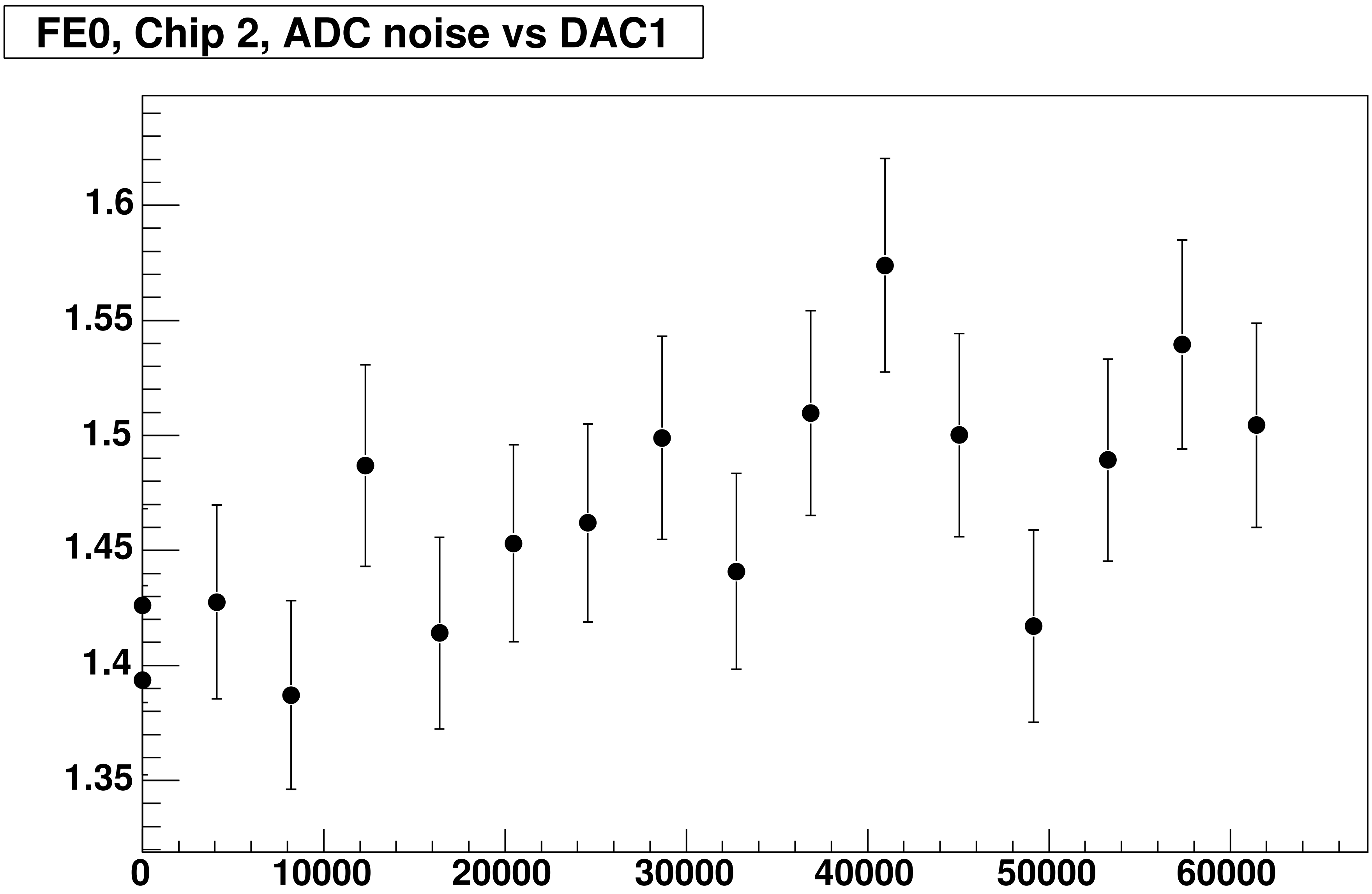
FE0, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1872 / 11
p0 8.686 ± 0.04298
p1 0.4515 ± 1.347e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

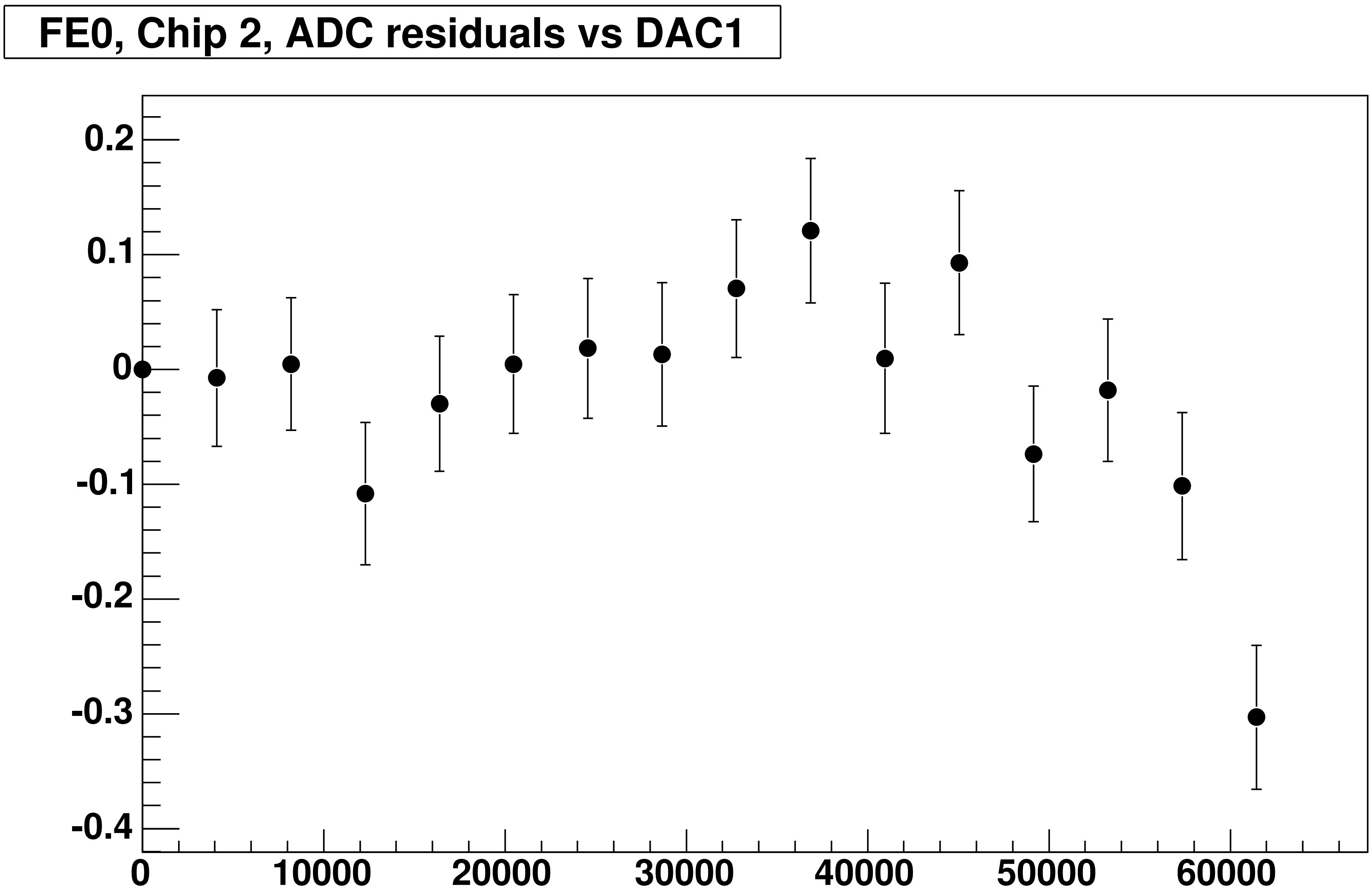

FE0, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

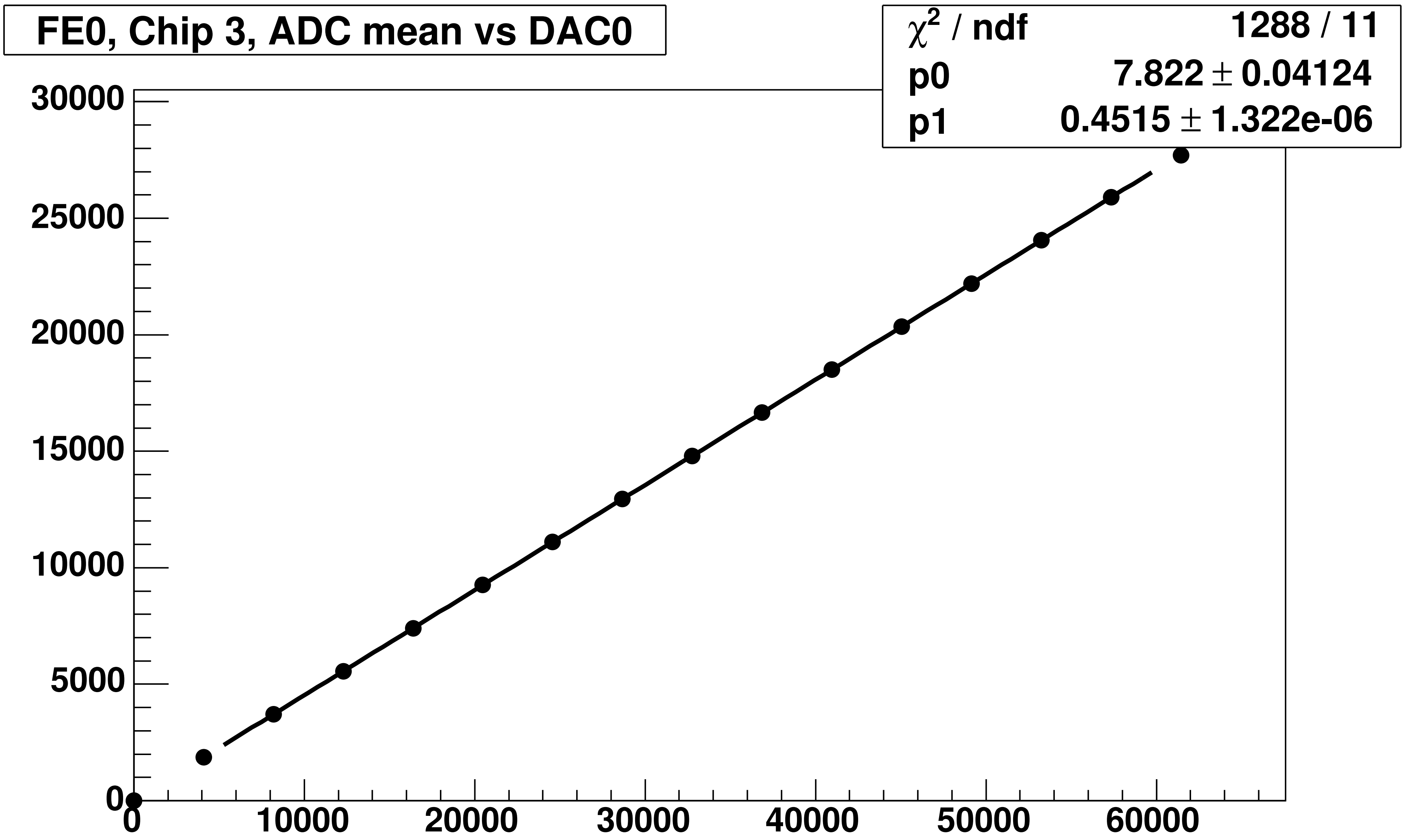

FE0, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

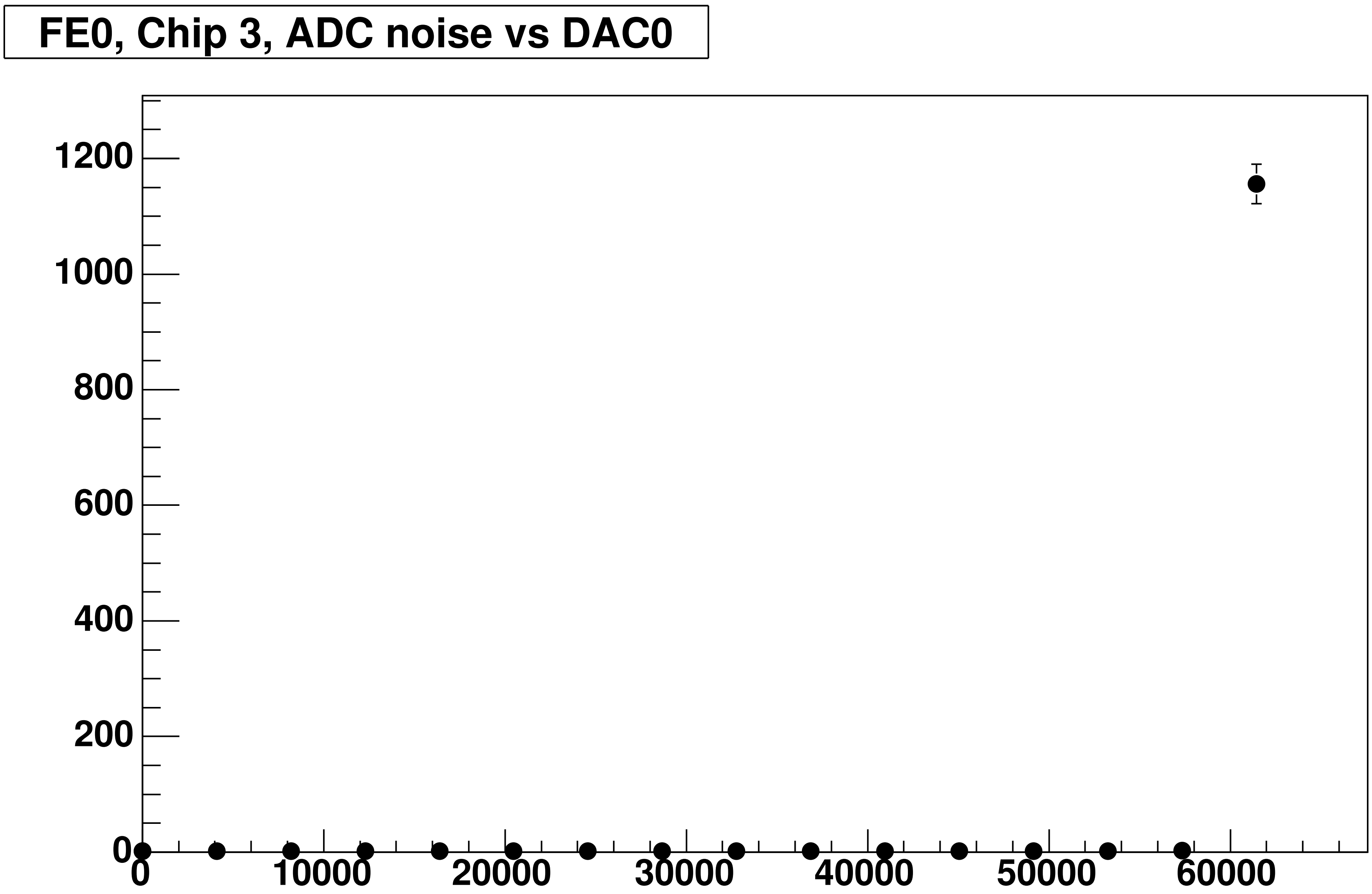


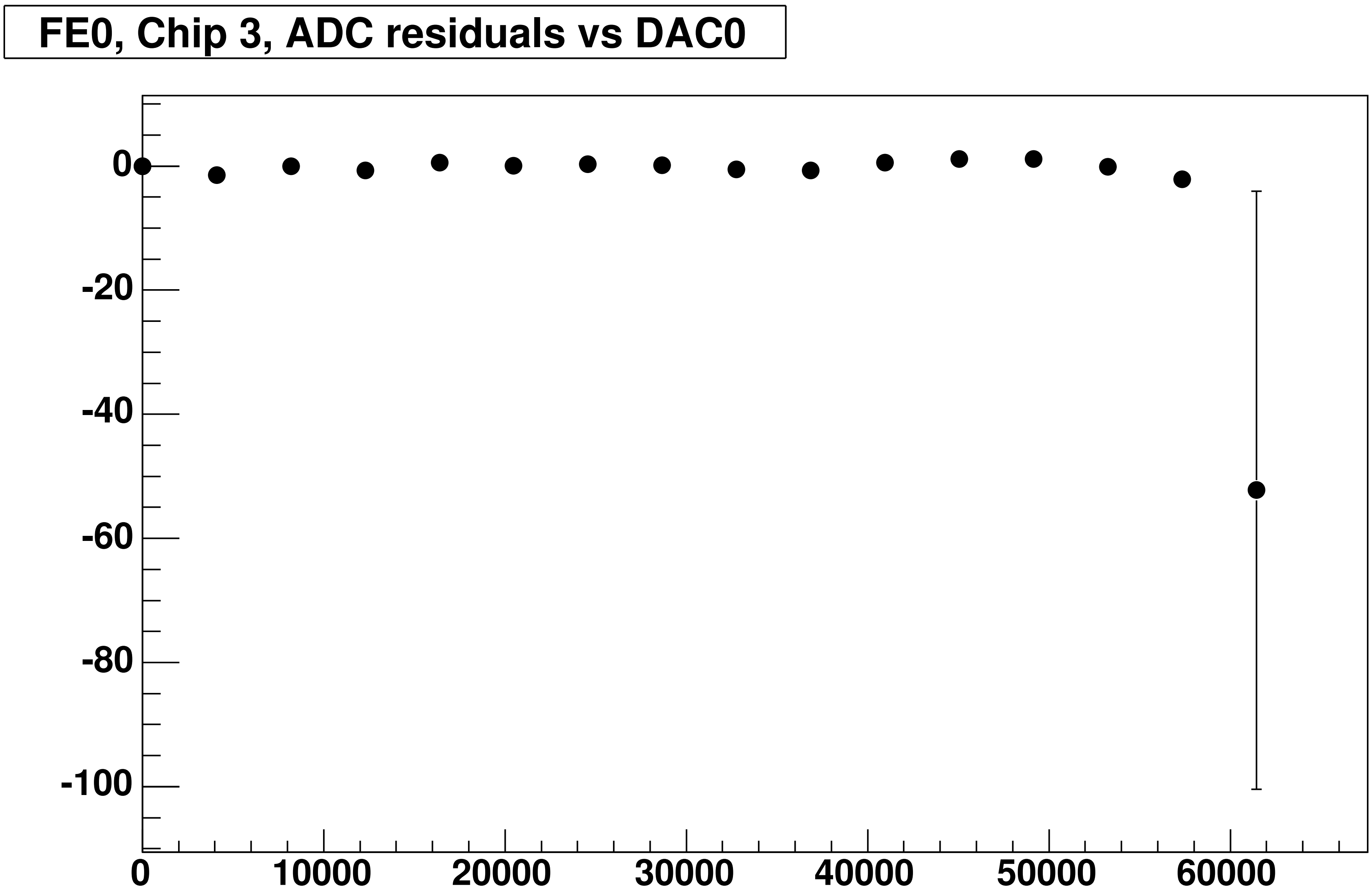
FE0, Chip 2, ADC mean vs DAC1
χ^2 / ndf 14.91 / 11
p0 6.21 ± 0.0394
p1 4.315e-07 ± 1.104e-06
6.4
6.3
6.2
6.1
6
5.9
0
10000
20000
30000
40000
50000
60000

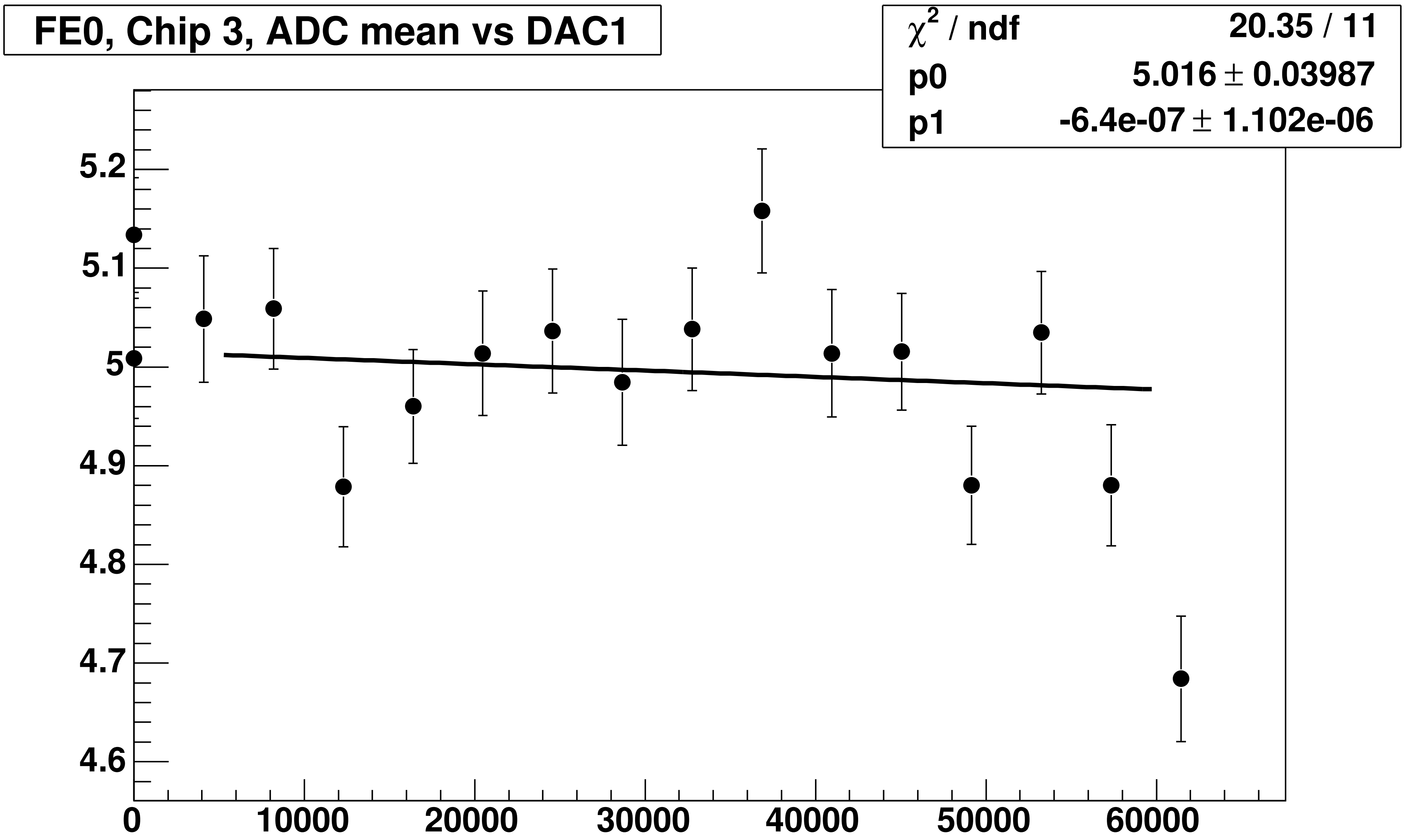

FE0, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

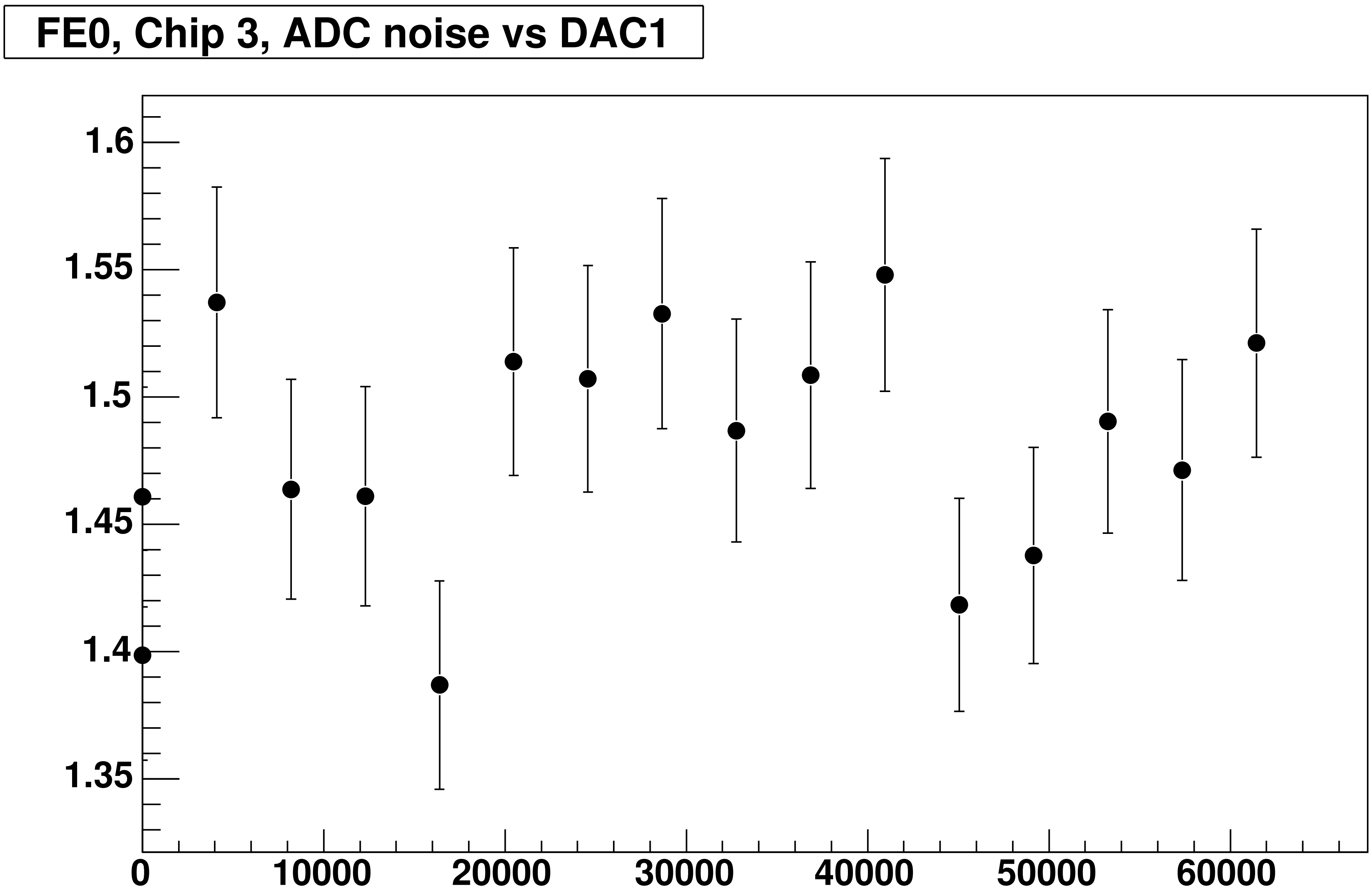

FE0, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

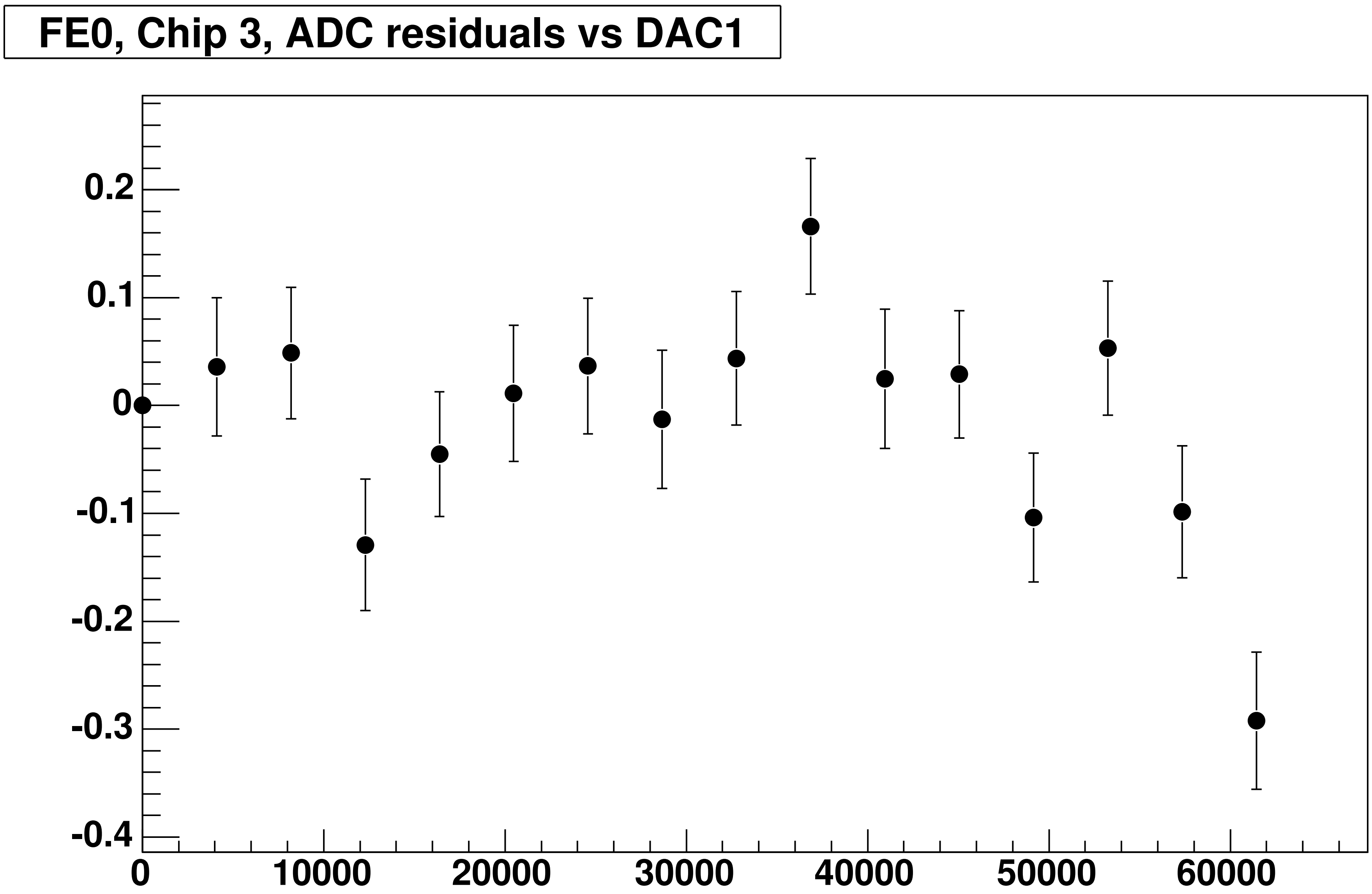

FE0, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1288 / 11
p0 7.822 ± 0.04124
p1 0.4515 ± 1.322e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


FE0, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

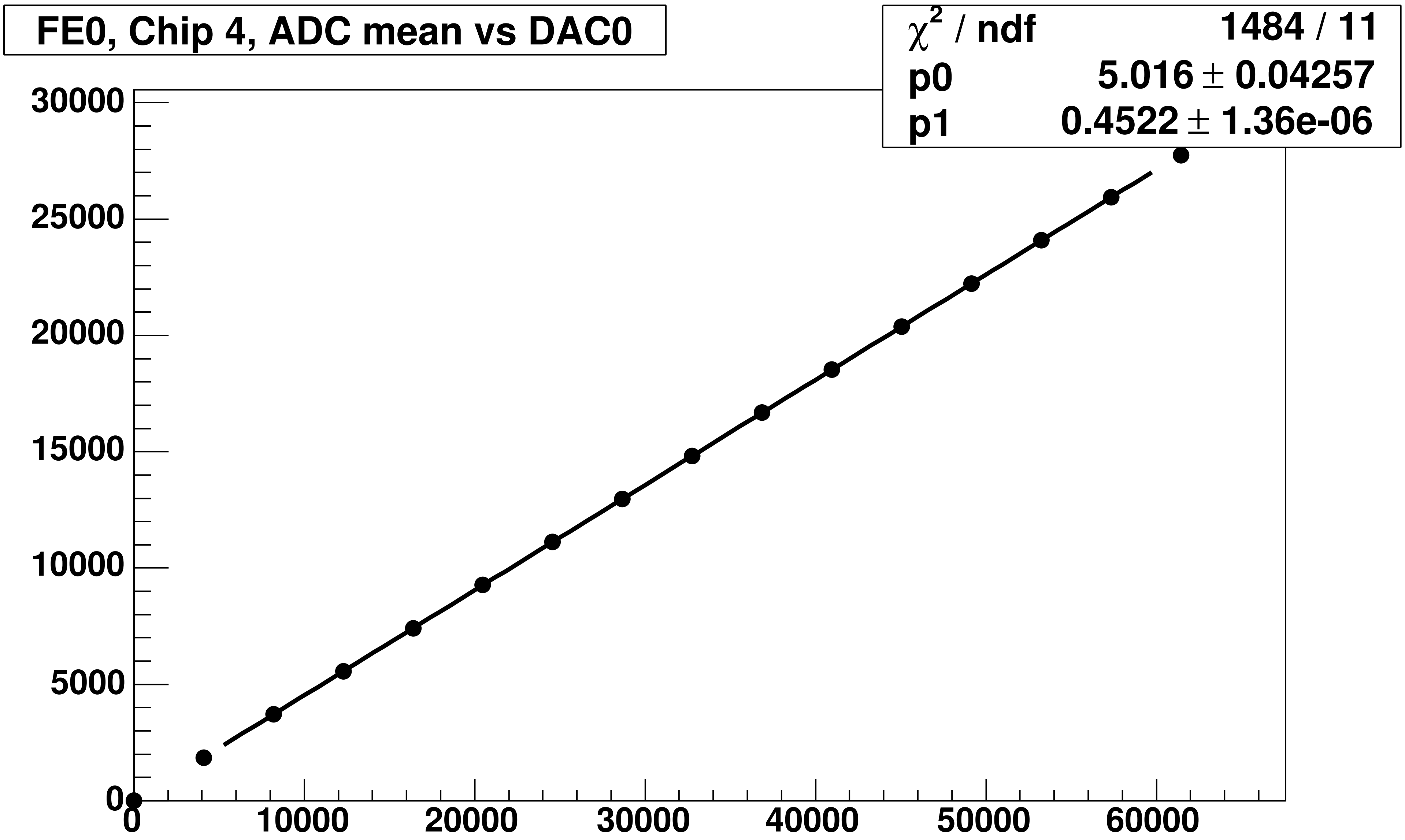

FE0, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

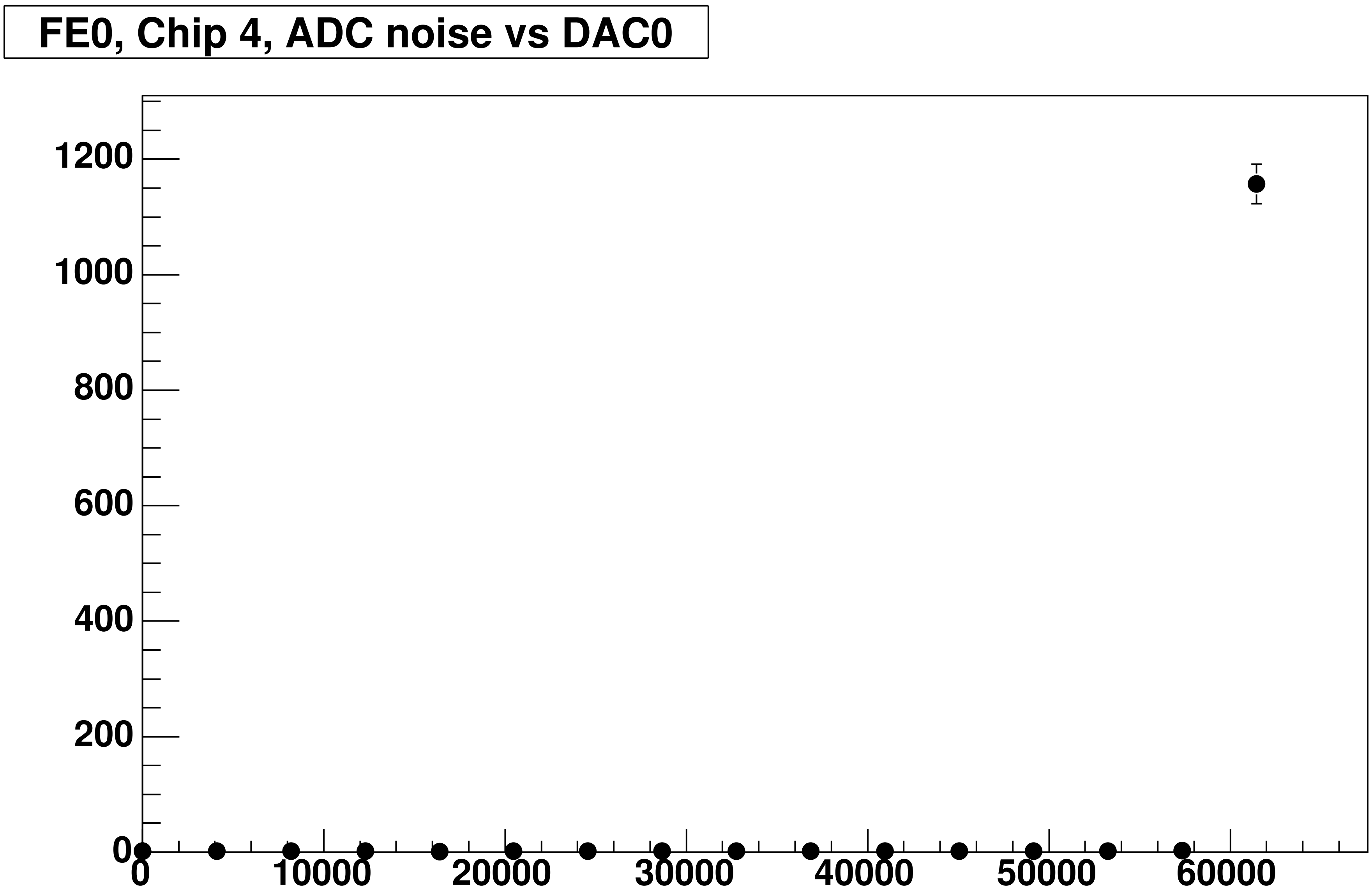

FE0, Chip 3, ADC mean vs DAC1
χ² / ndf 20.35 / 11
p0 5.016 ± 0.03987
p1 -6.4e-07 ± 1.102e-06
5.2
5.1
5
4.9
4.8
4.7
4.6
0
10000
20000
30000
40000
50000
60000


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

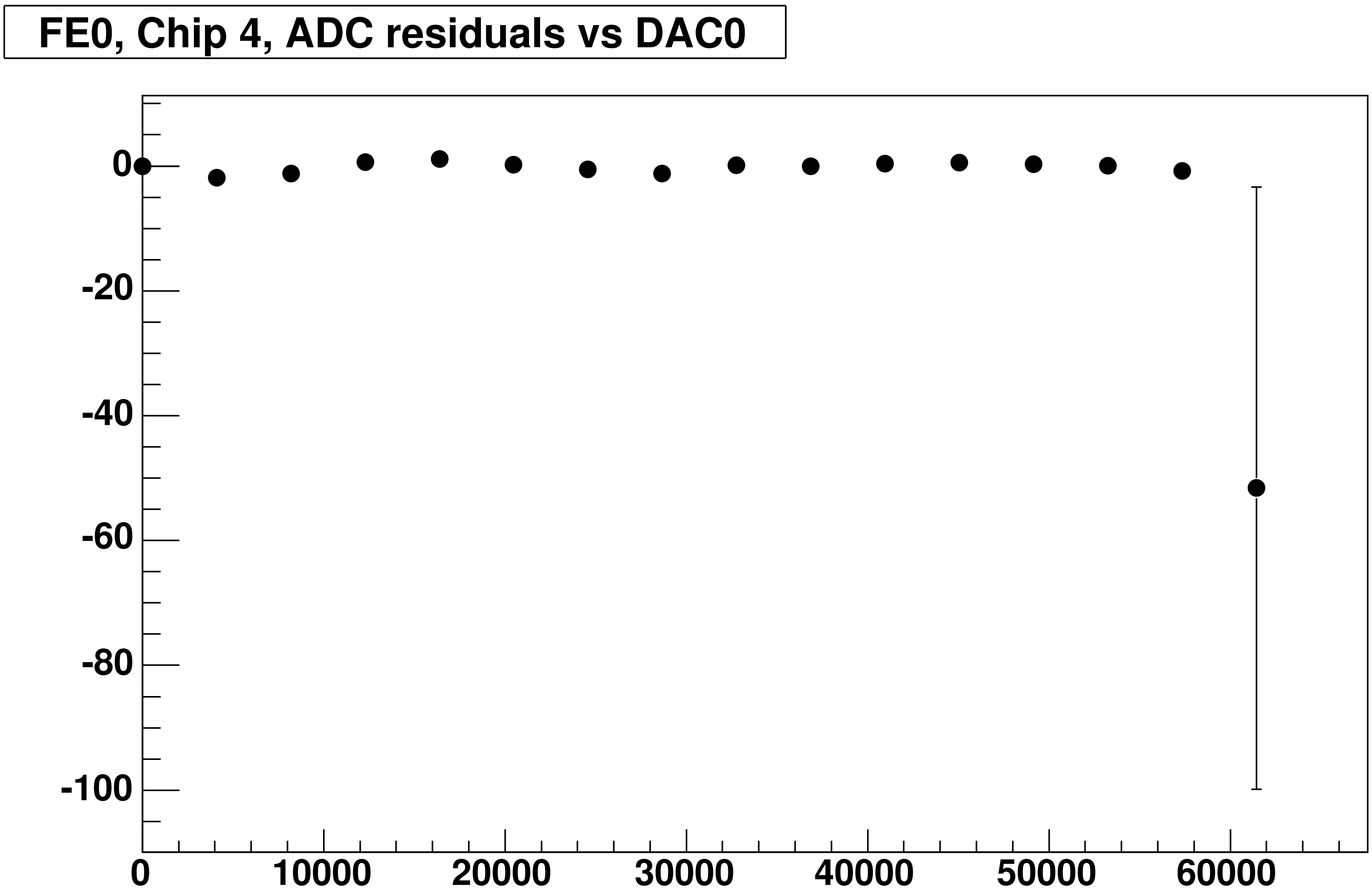


FE0, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

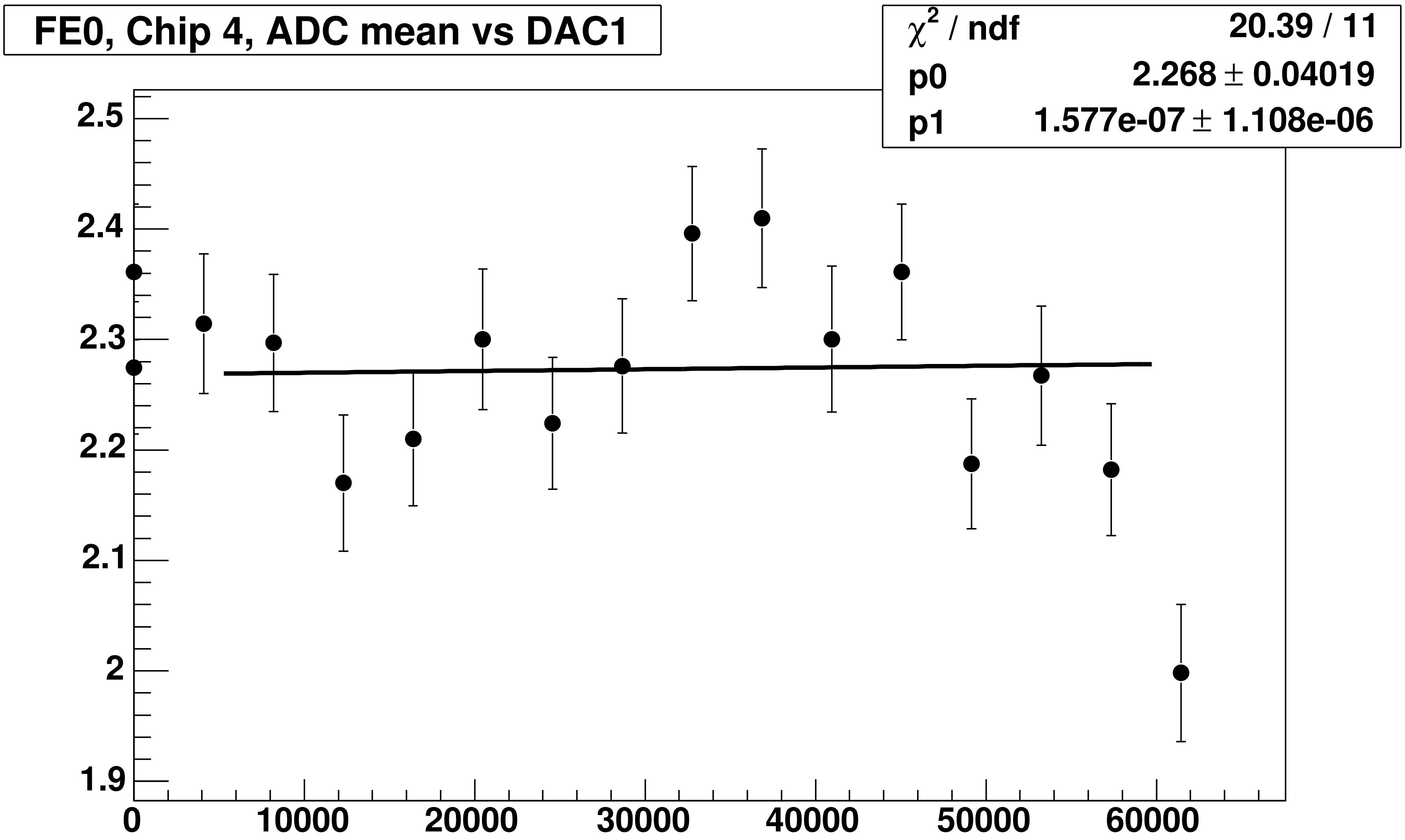

FE0, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1484 / 11
p0 5.016 ± 0.04257
p1 0.4522 ± 1.36e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

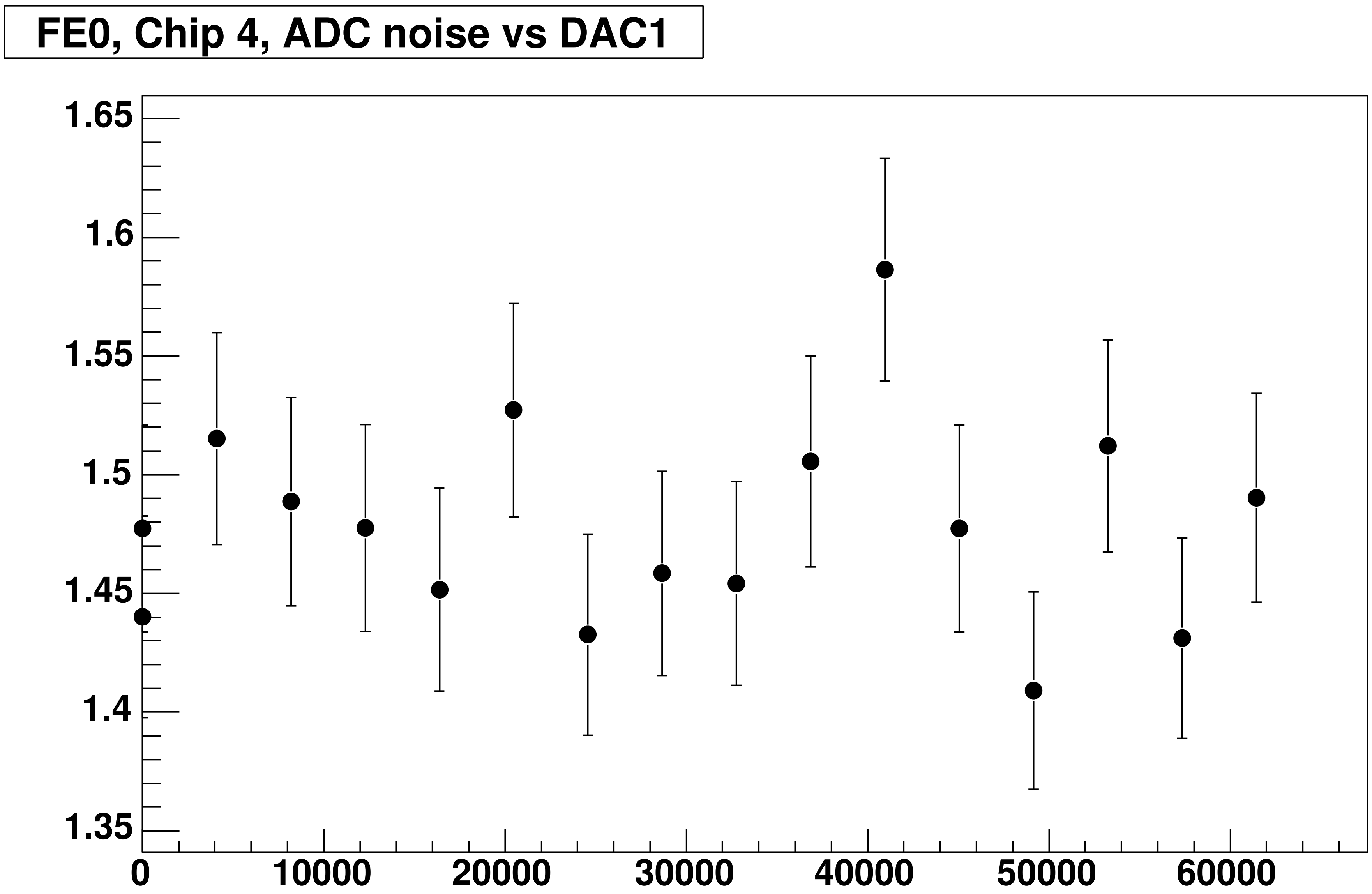


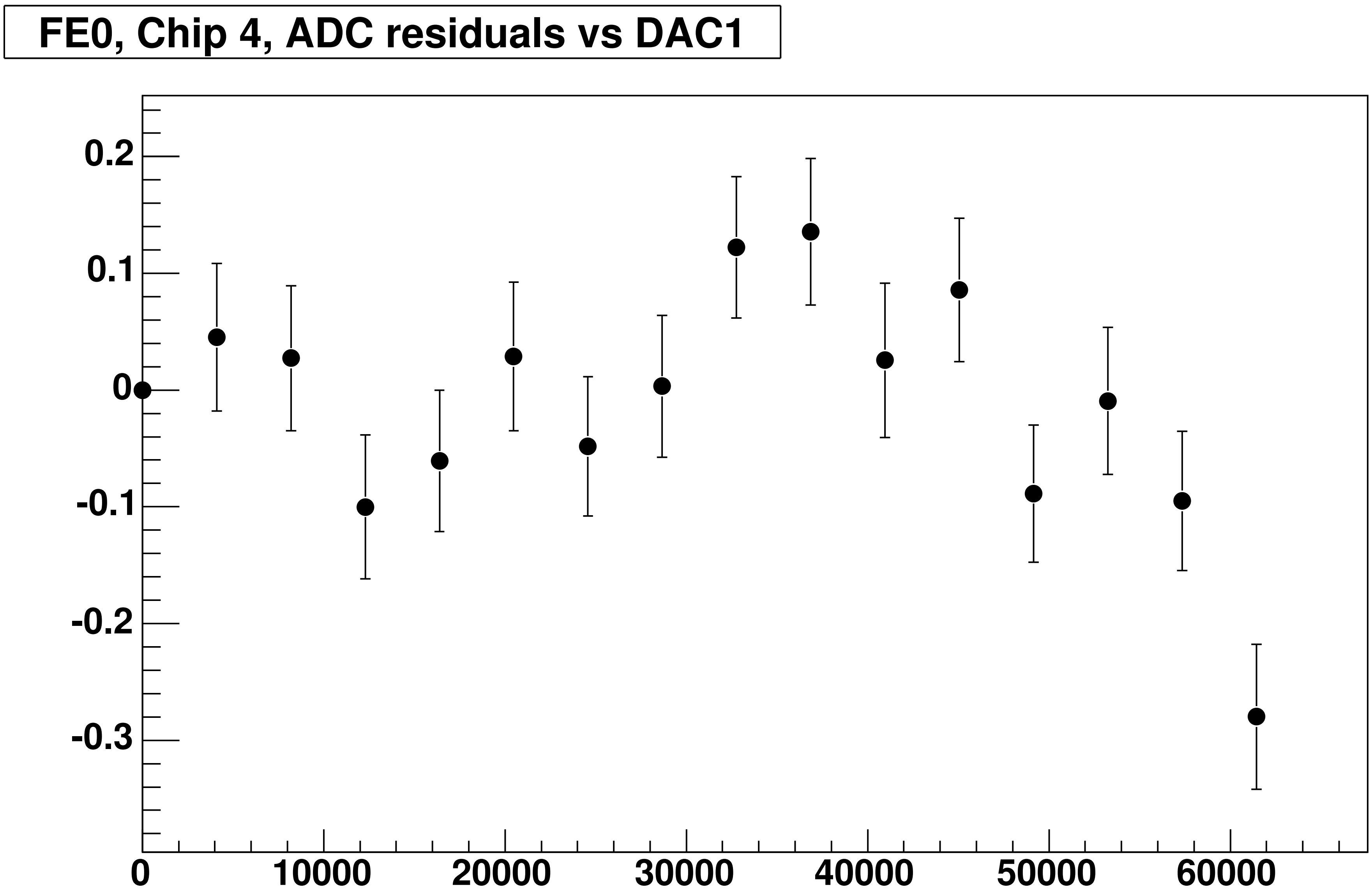
FE0, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

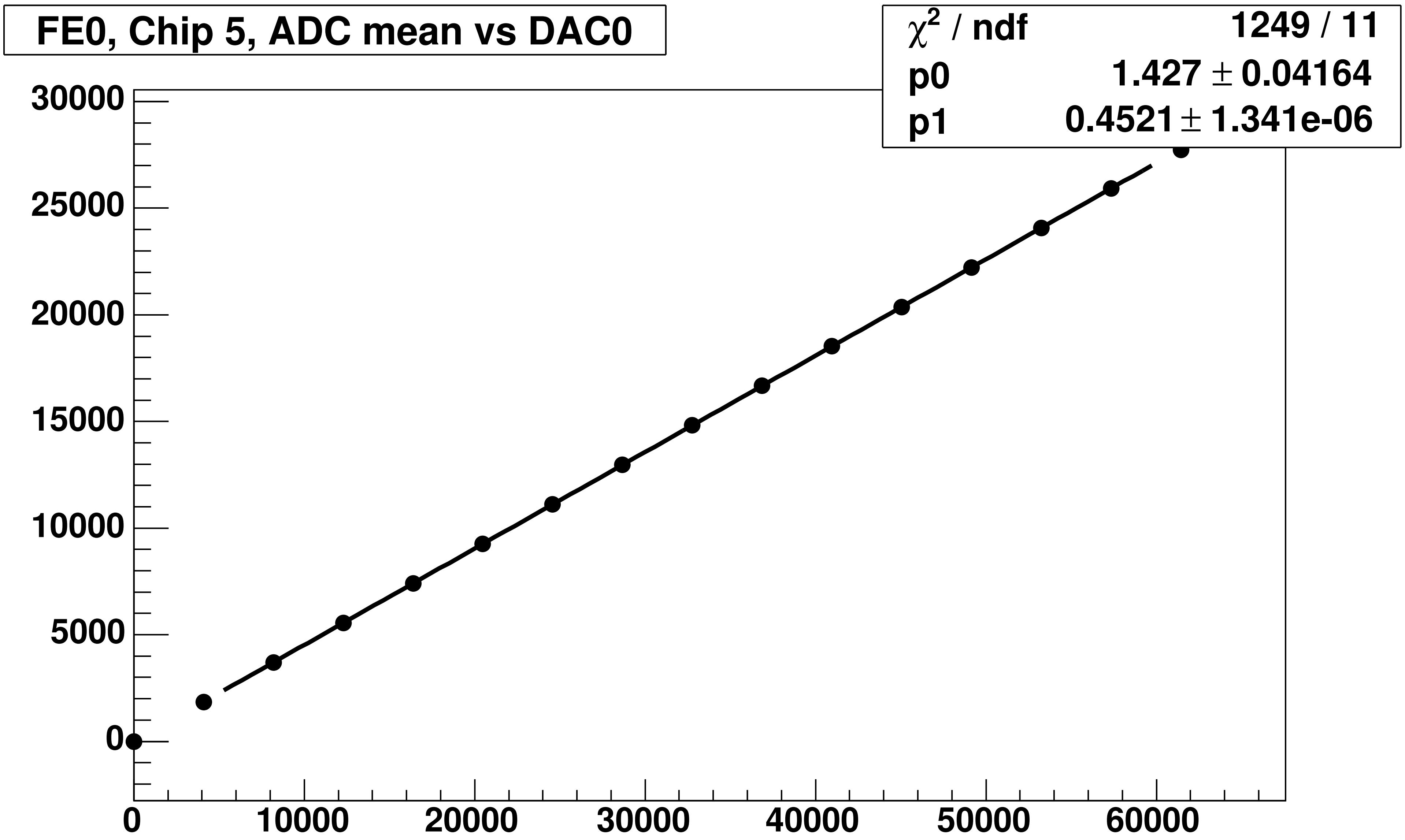


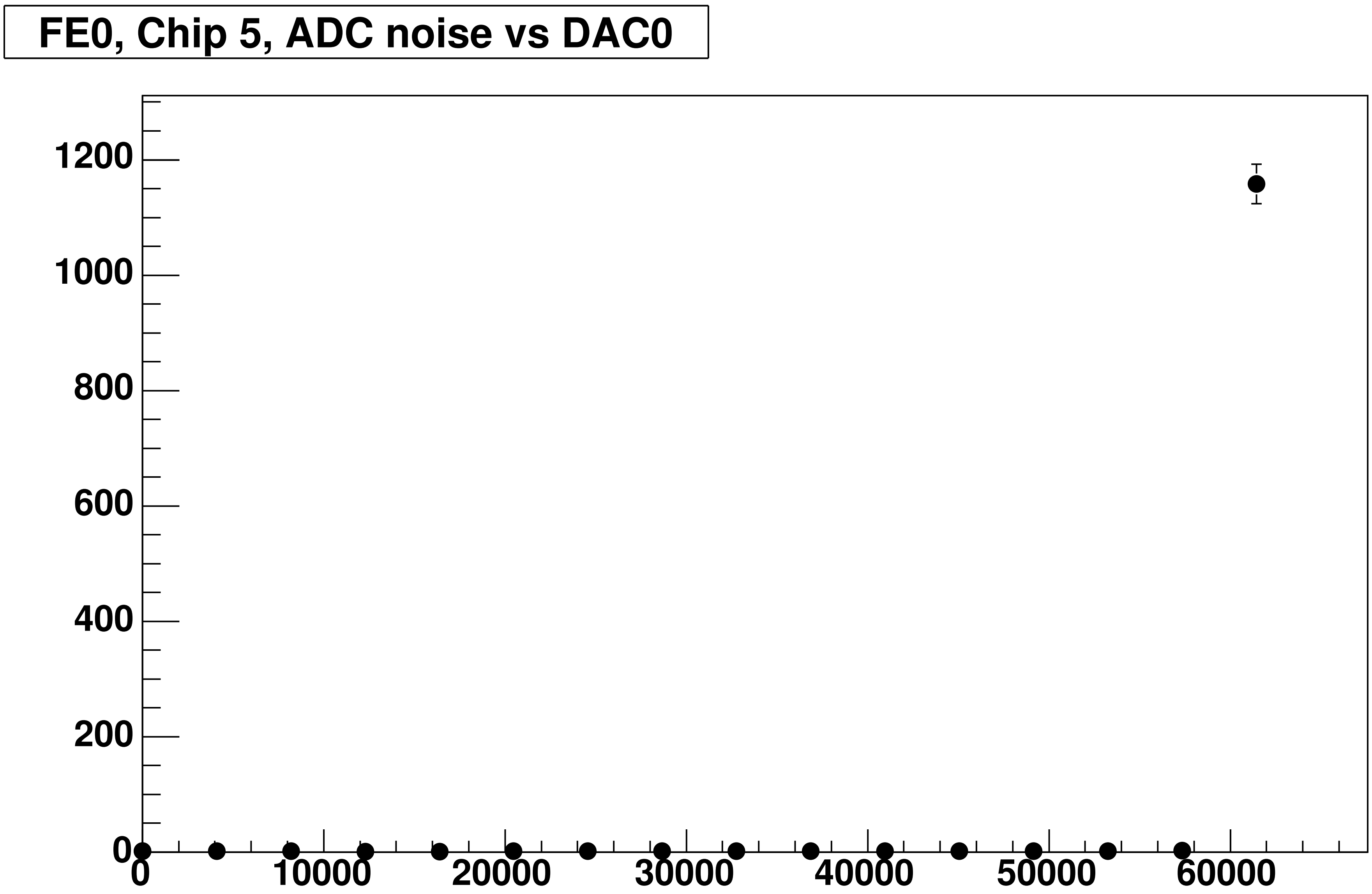
FE0, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE0, Chip 4, ADC mean vs DAC1
χ^2 / ndf 20.39 / 11
p0 2.268 ± 0.04019
p1 1.577e-07 ± 1.108e-06
2.5
2.4
2.3
2.2
2.1
2
1.9
0
10000
20000
30000
40000
50000
60000

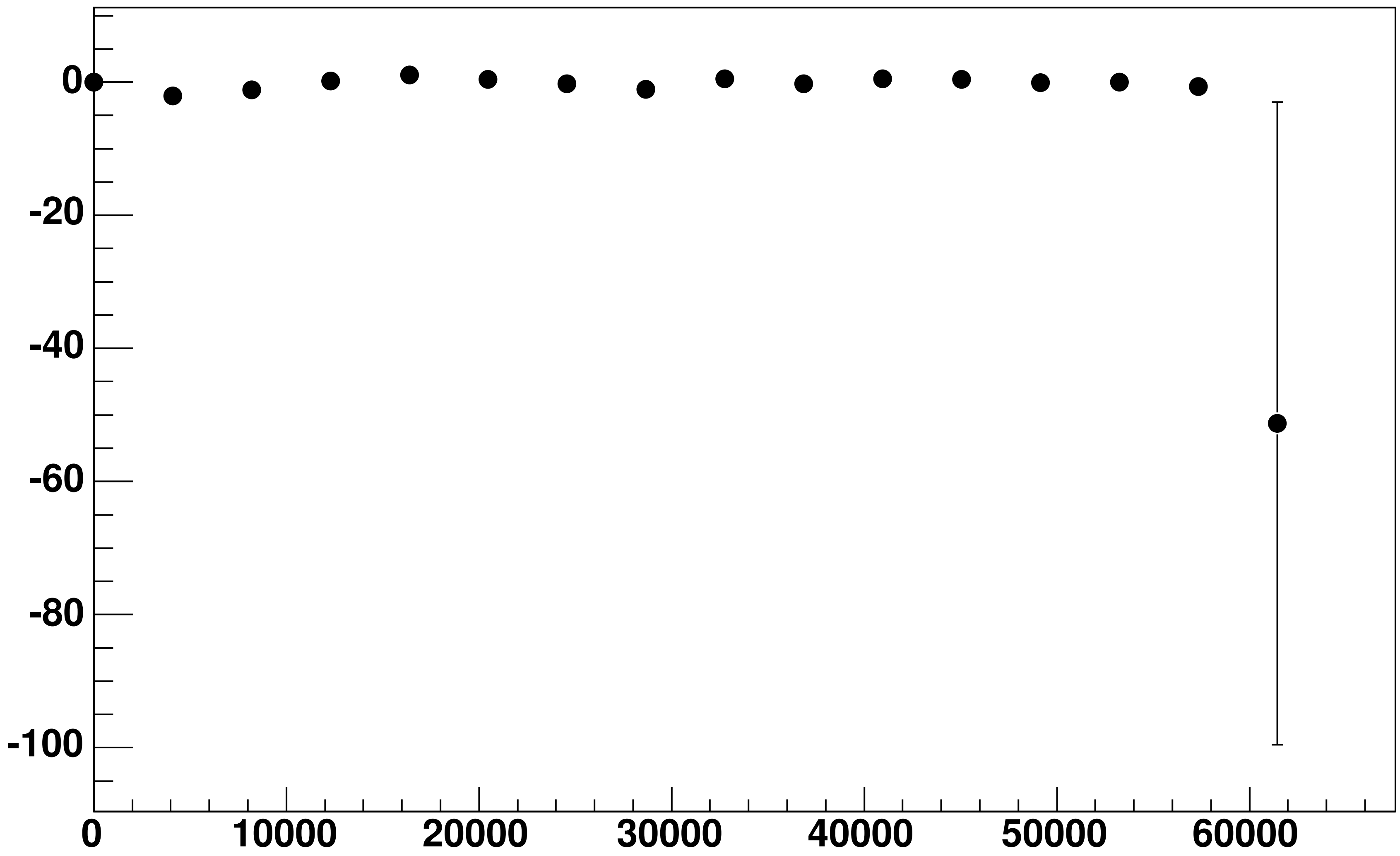

FE0, Chip 4, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

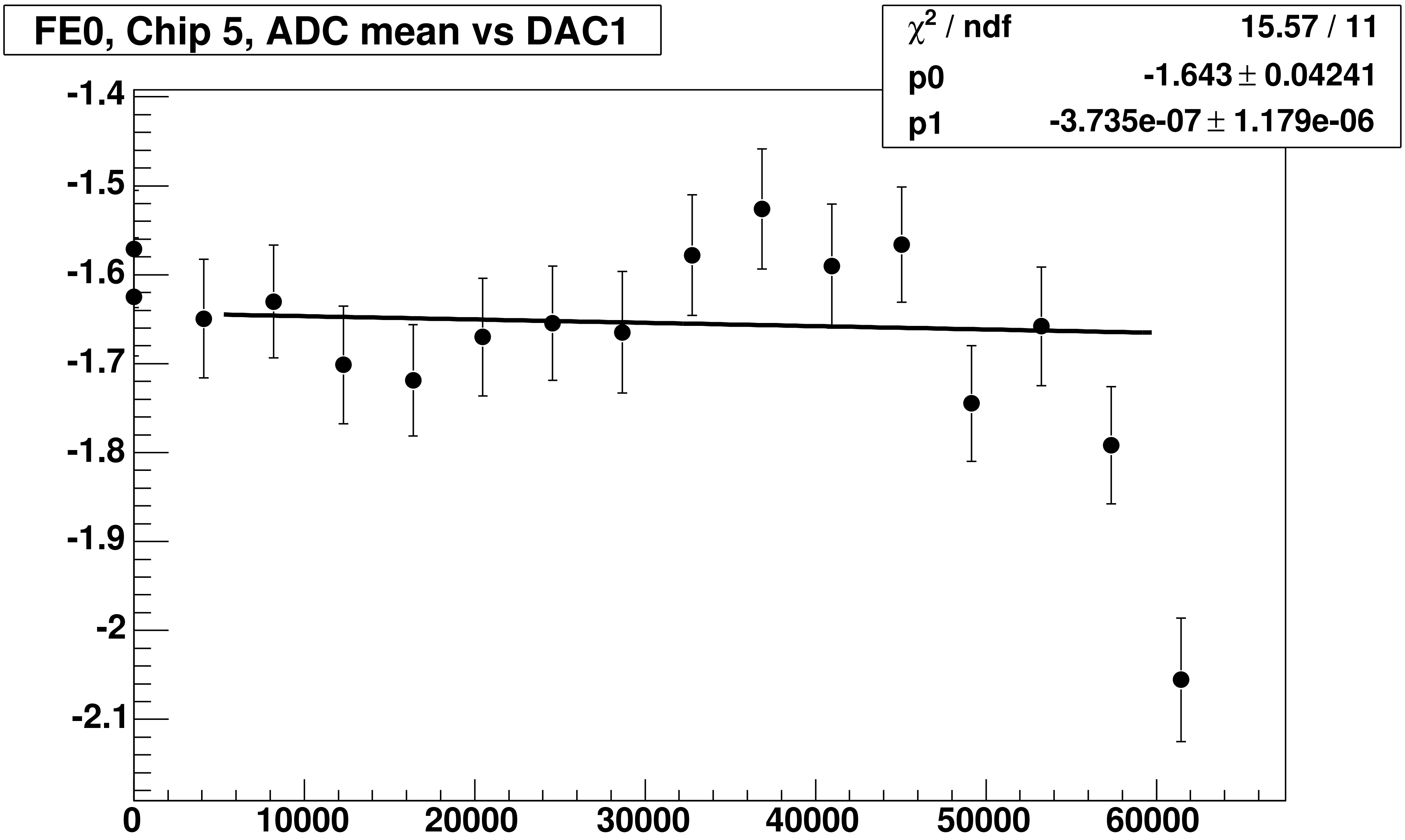

FE0, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE0, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1249 / 11
p0 1.427 ± 0.04164
p1 0.4521 ± 1.341e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

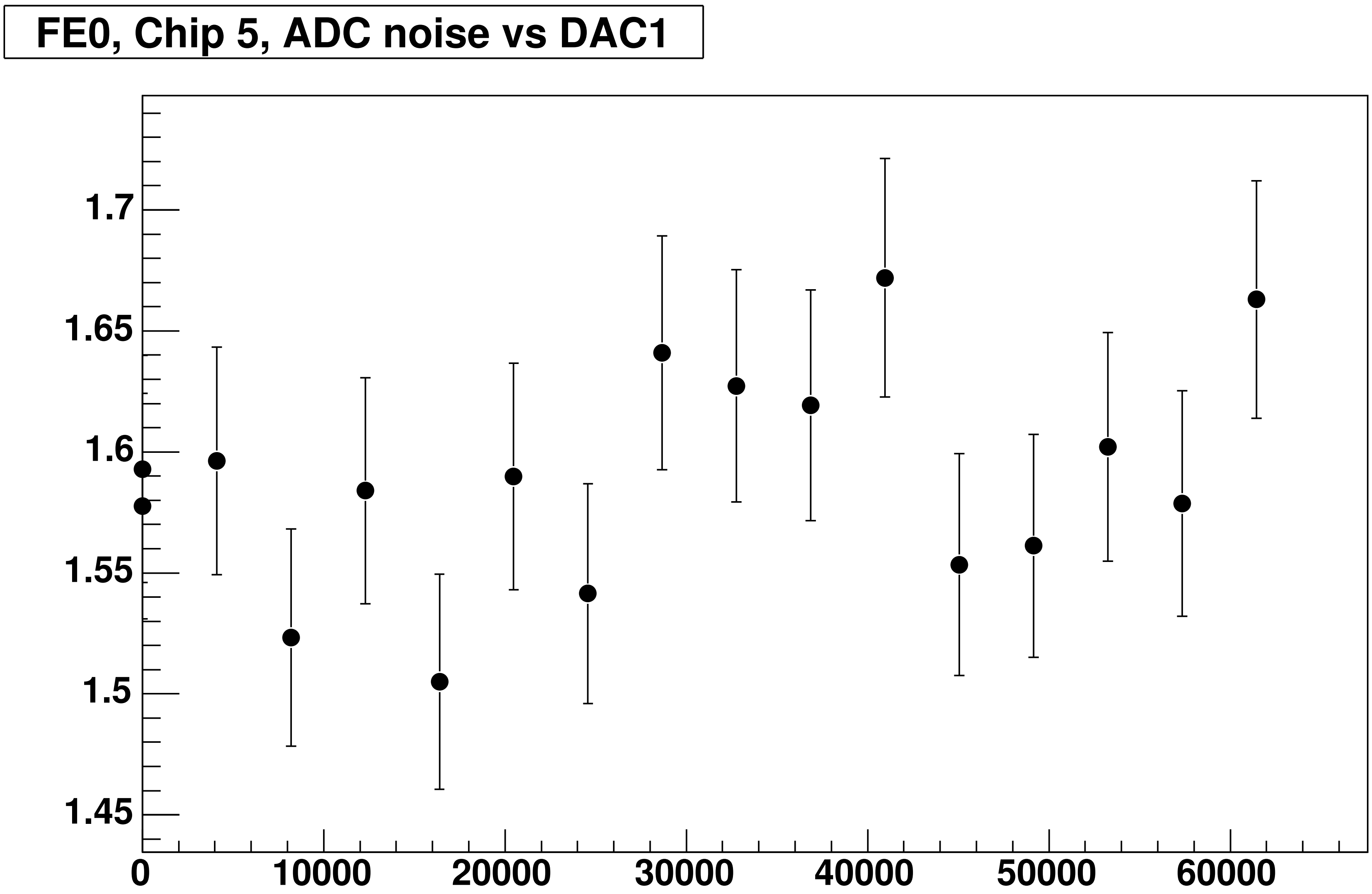

FE0, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

FE0, Chip 5, ADC residuals vs DAC0

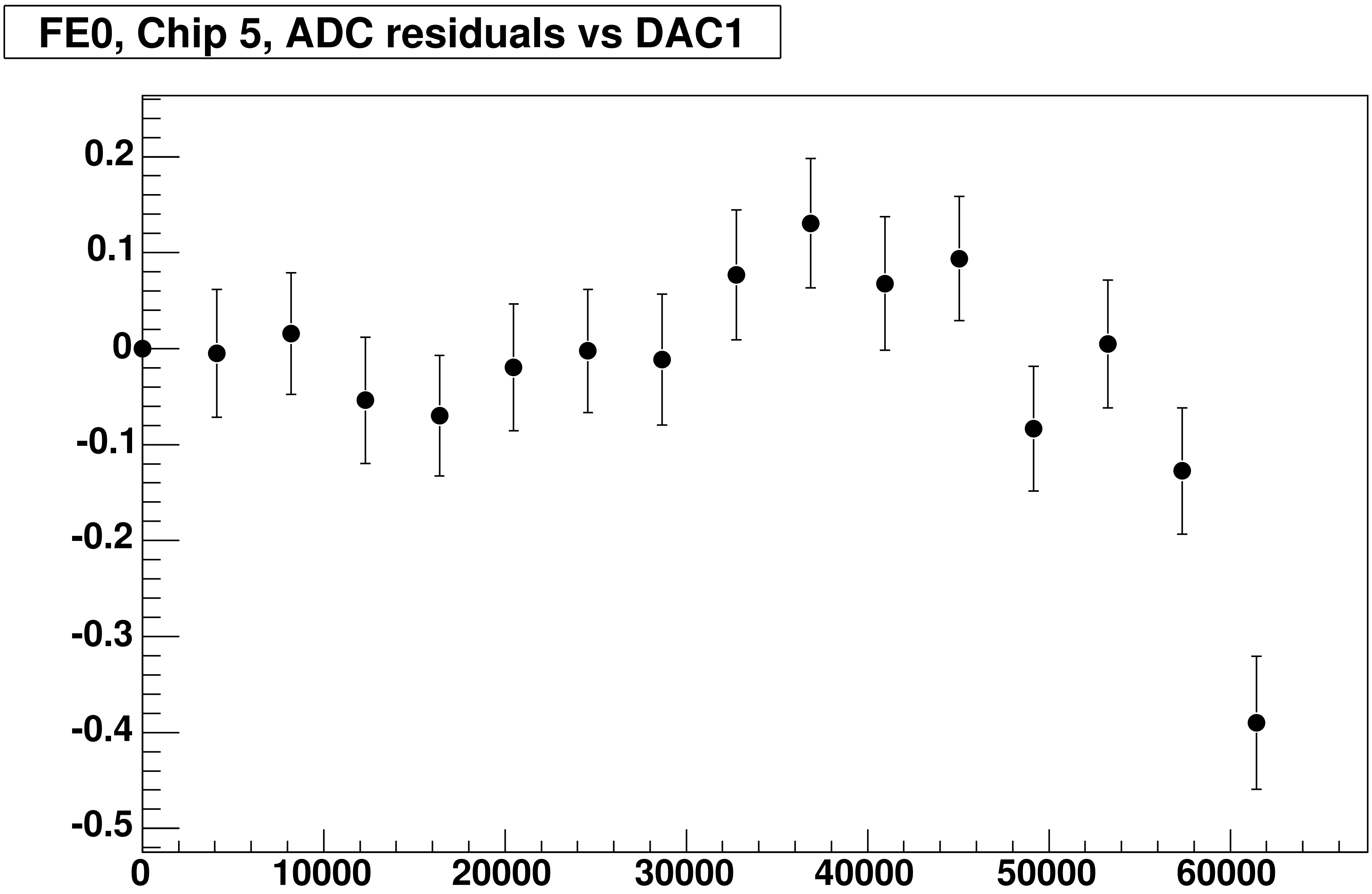


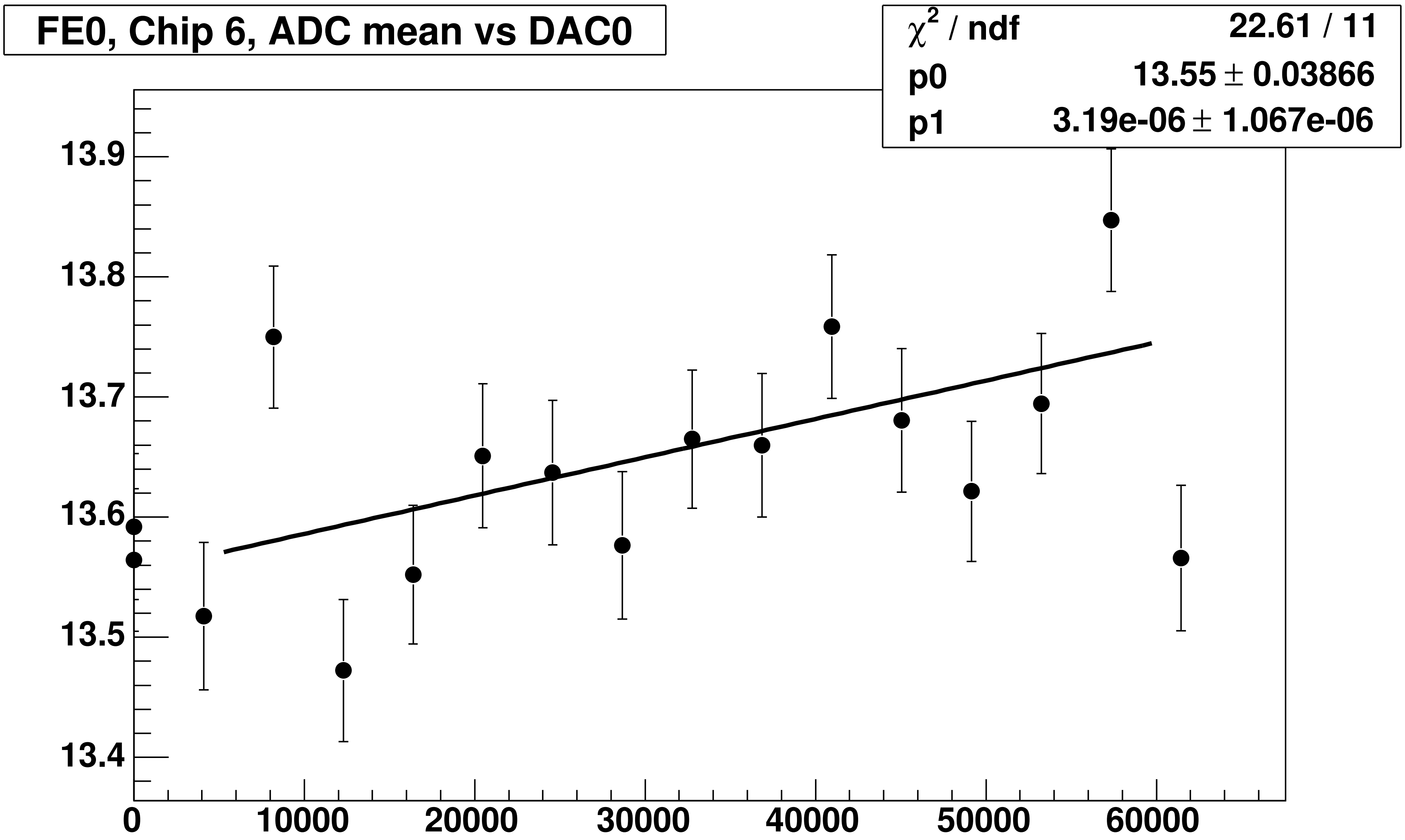


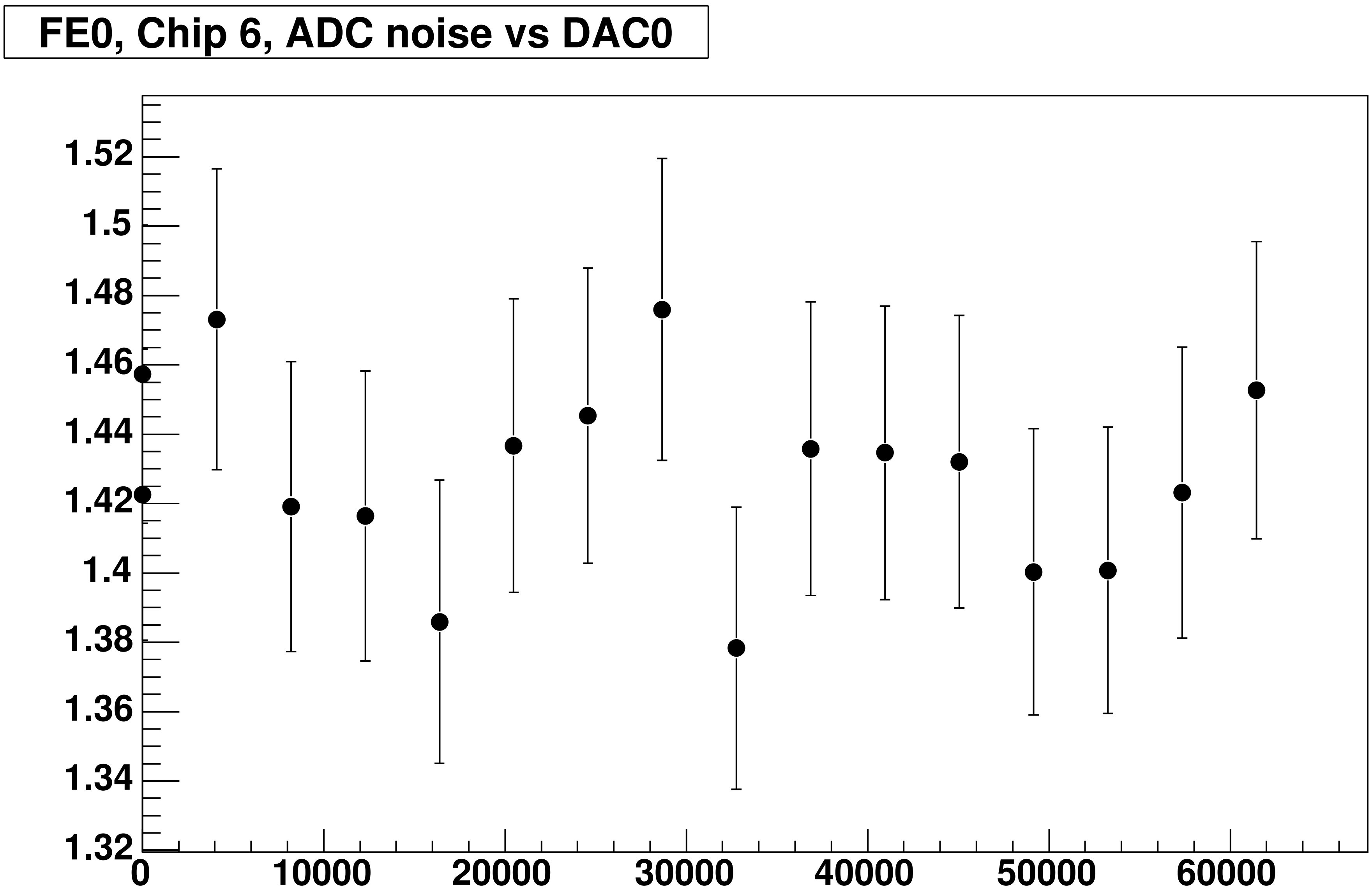
FE0, Chip 5, ADC mean vs DAC1
χ^2 / ndf 15.57 / 11
p0 -1.643 ± 0.04241
p1 -3.735e-07 ± 1.179e-06
-1.4
-1.5
-1.6
-1.7
-1.8
-1.9
-2
-2.1
0
10000
20000
30000
40000
50000
60000



FE0, Chip 5, ADC noise vs DAC1
1.45
1.5
1.55
1.6
1.65
1.7
0
10000
20000
30000
40000
50000
60000

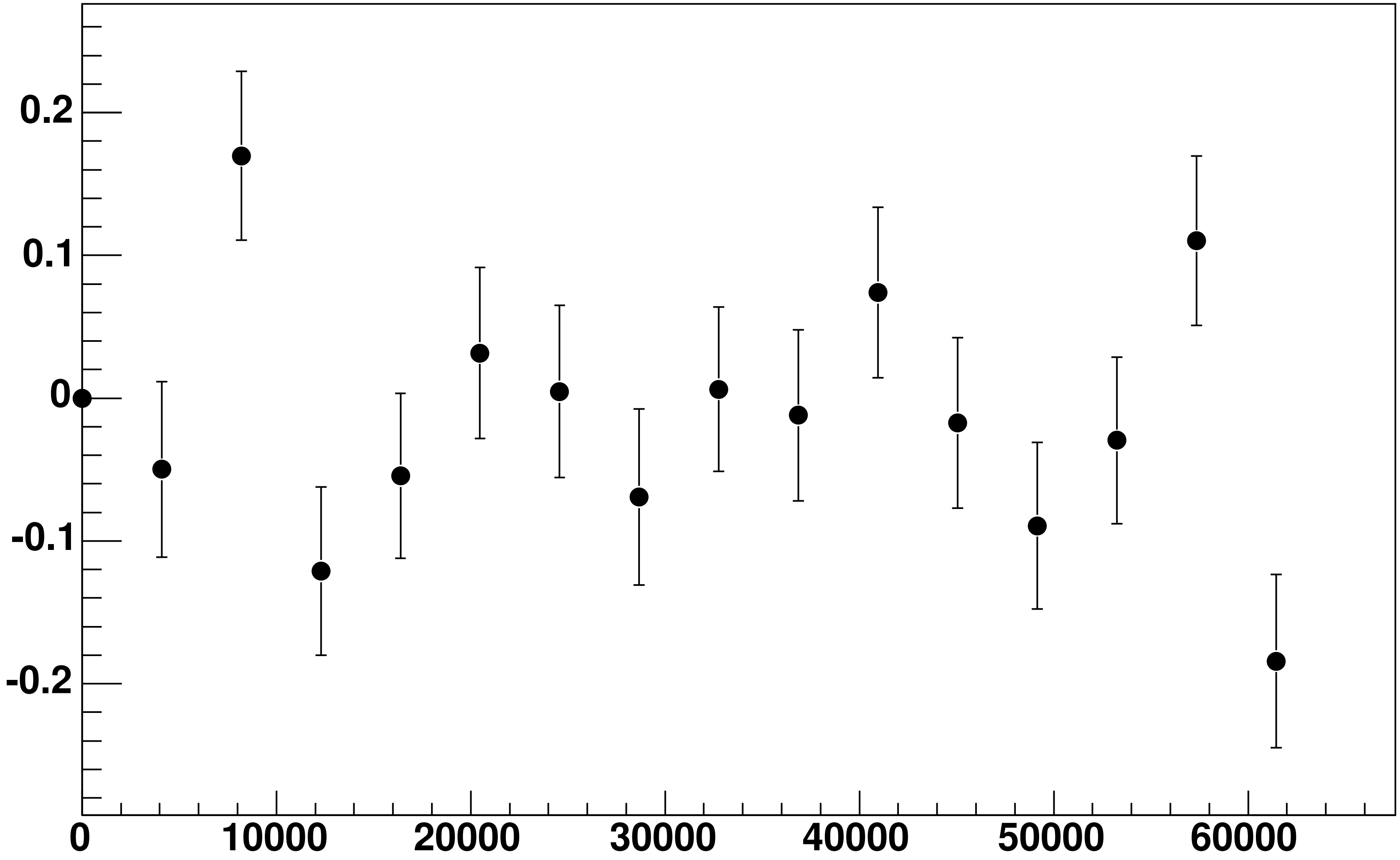

FE0, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

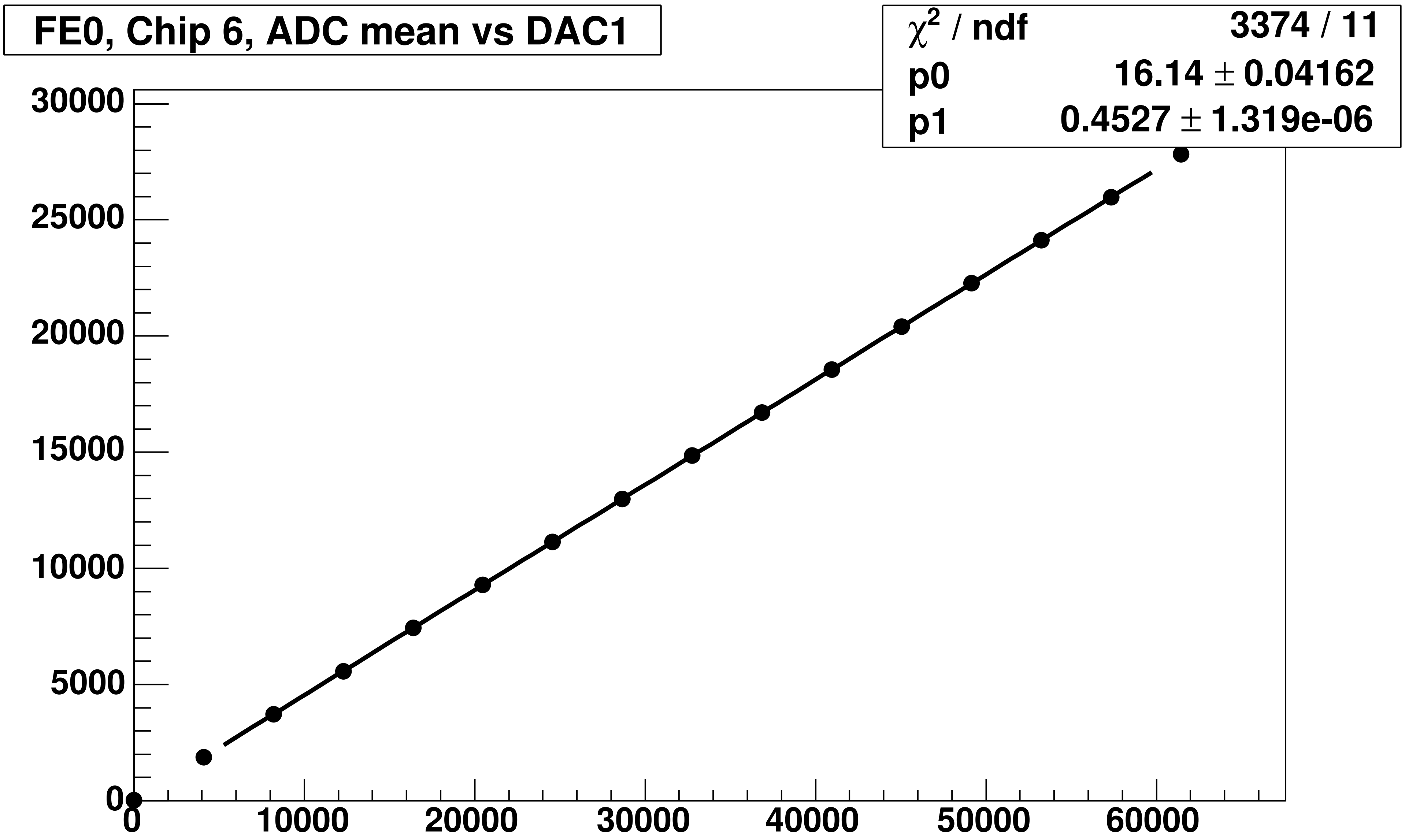

FE0, Chip 6, ADC mean vs DAC0
χ^2 / ndf 22.61 / 11
p0 13.55 ± 0.03866
p1 3.19e-06 ± 1.067e-06
13.4
13.5
13.6
13.7
13.8
13.9
0
10000
20000
30000
40000
50000
60000



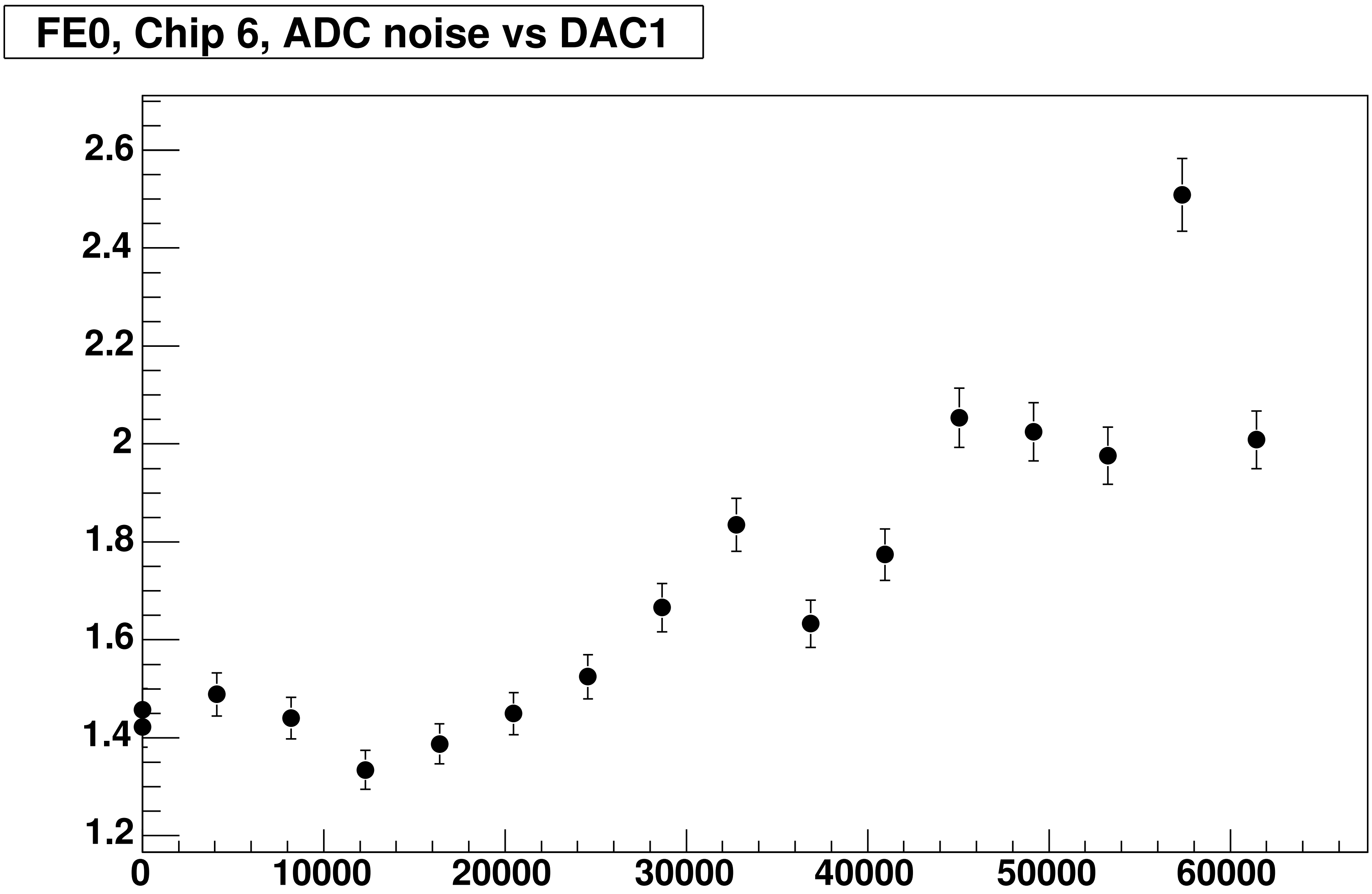
FE0, Chip 6, ADC noise vs DAC0
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
1.34
1.32
0
10000
20000
30000
40000
50000
60000

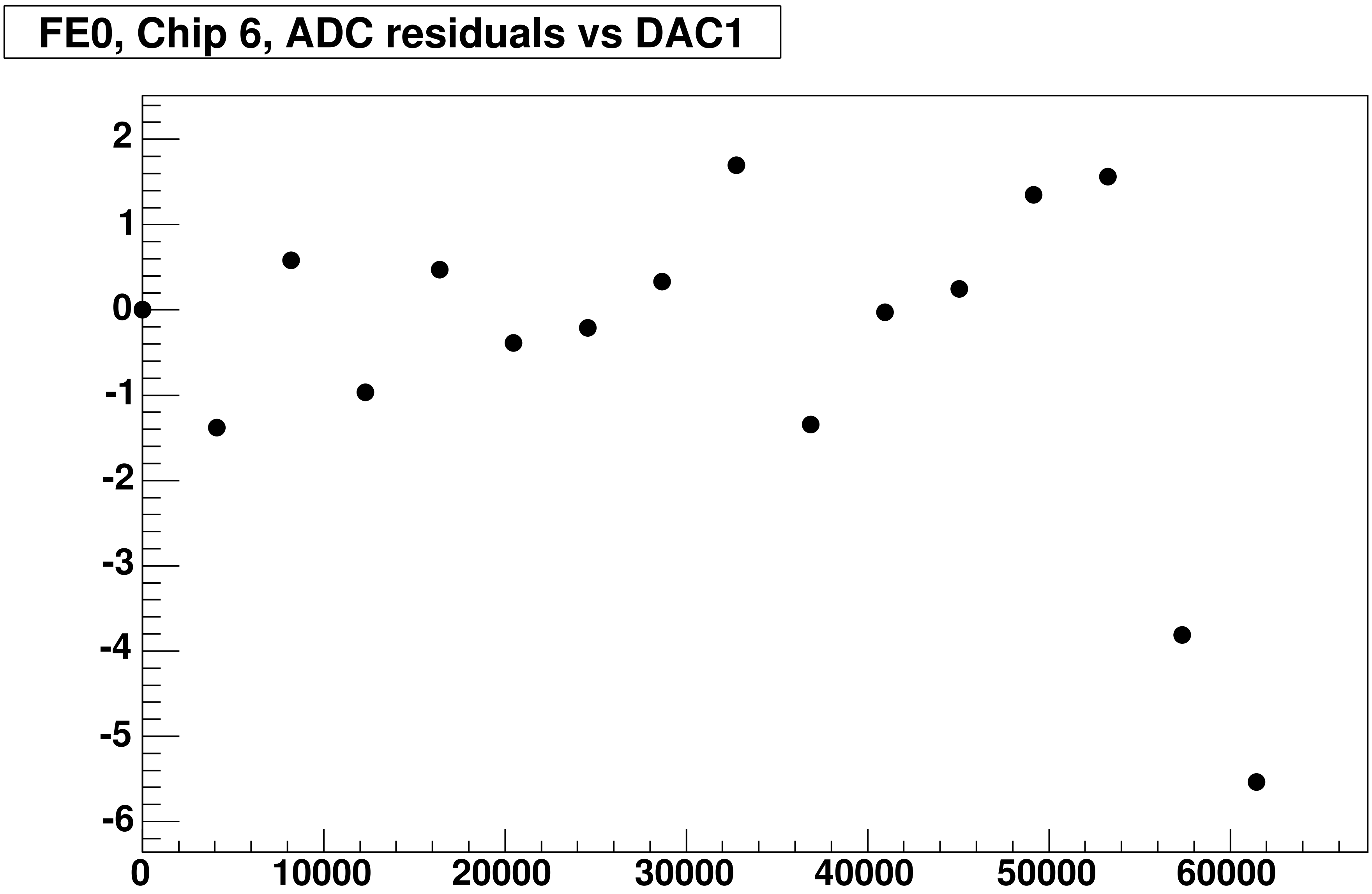
FE0, Chip 6, ADC residuals vs DAC0

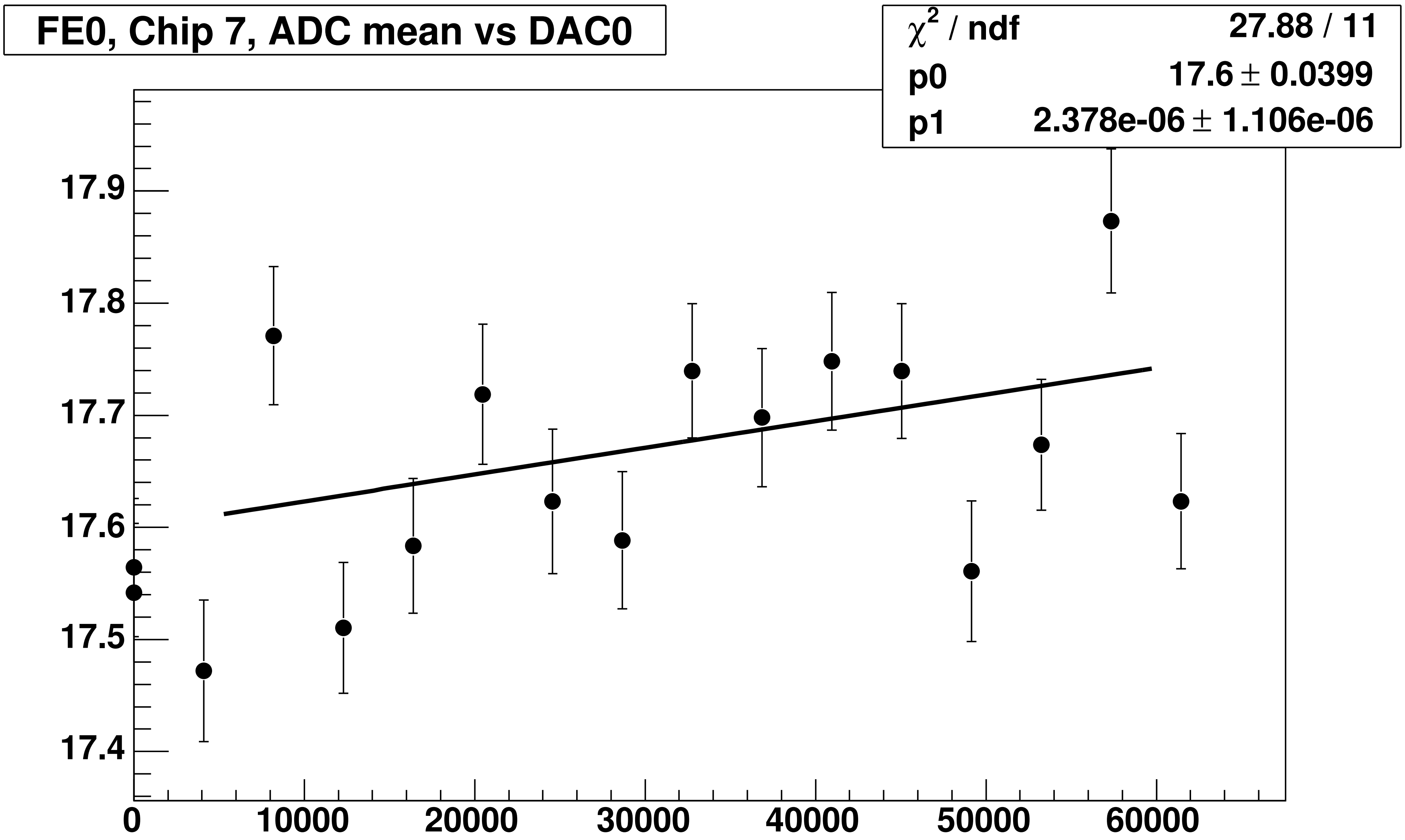


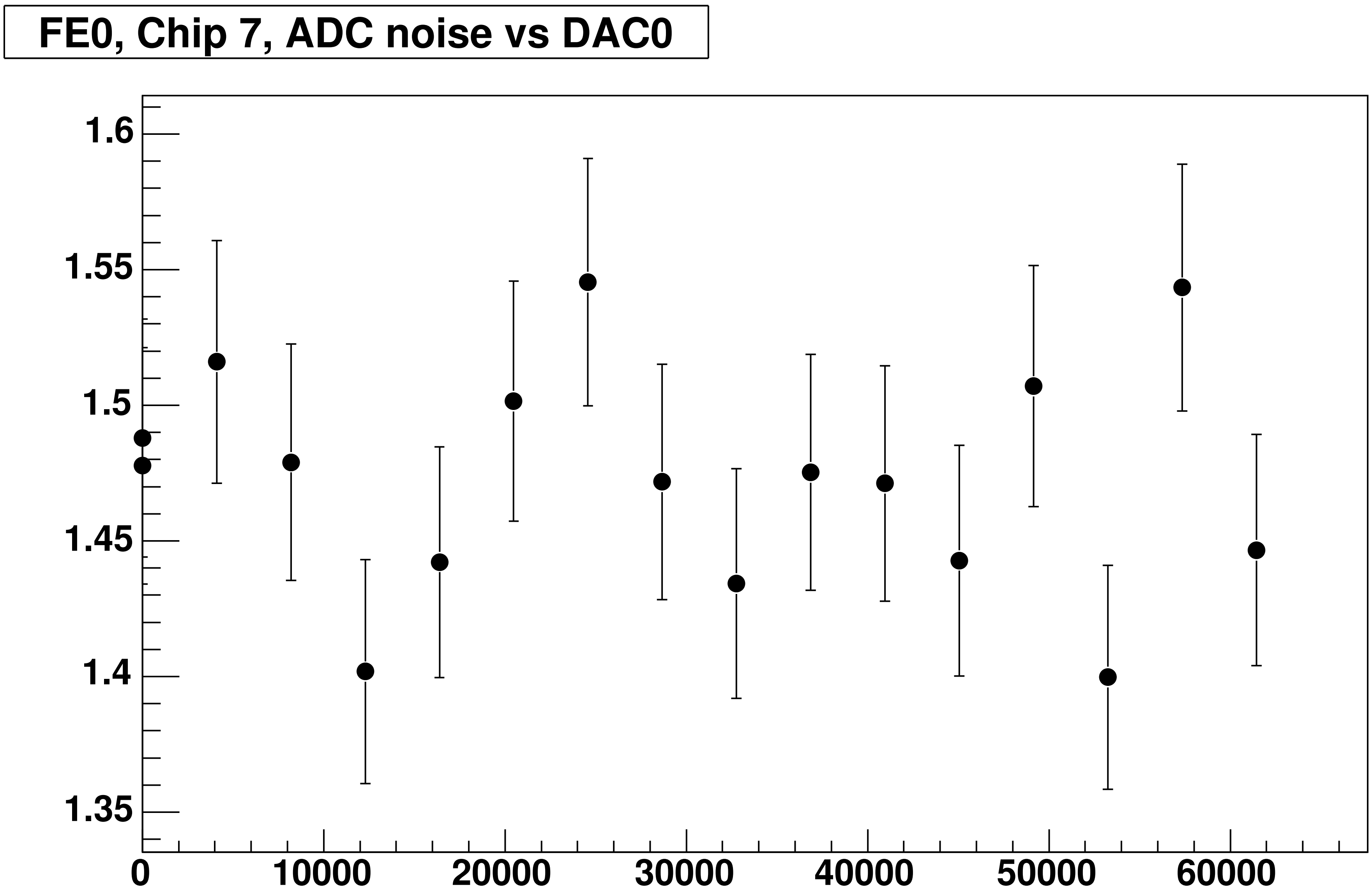


FE0, Chip 6, ADC mean vs DAC1
χ^2 / ndf 3374 / 11
p0 16.14 ± 0.04162
p1 0.4527 ± 1.319e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

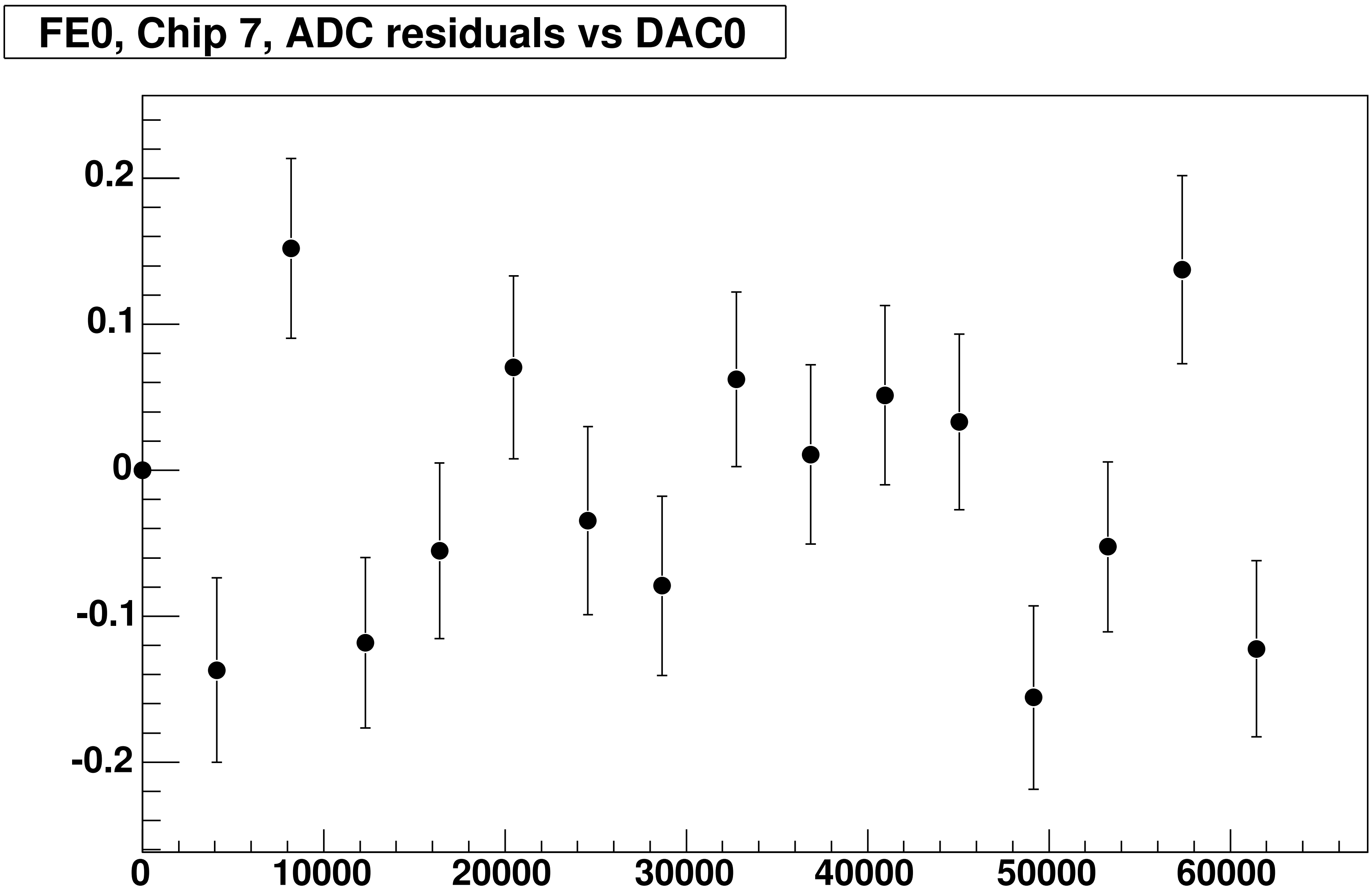

FE0, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

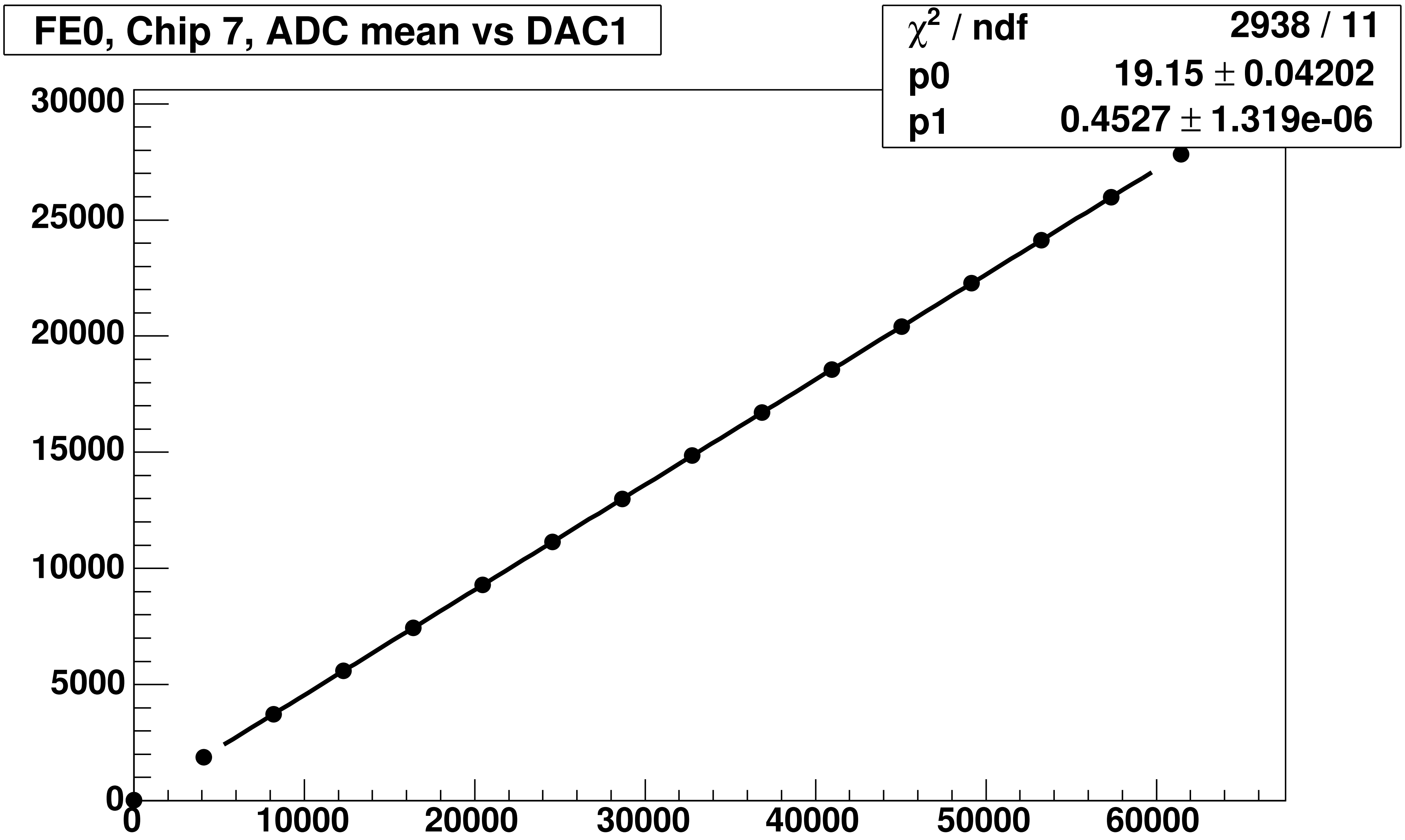

FE0, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

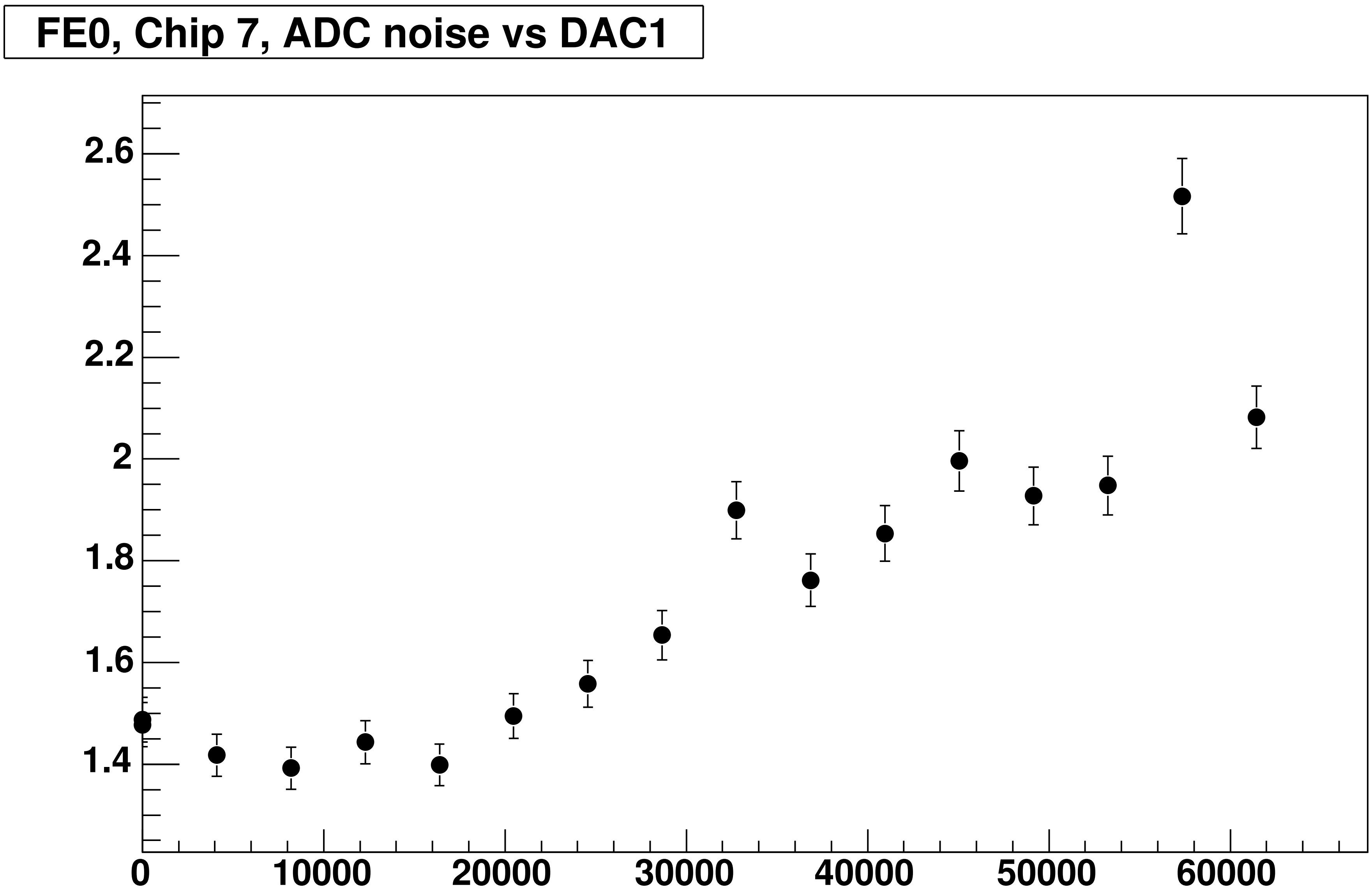

FE0, Chip 7, ADC mean vs DAC0
χ^2 / ndf 27.88 / 11
p0 17.6 ± 0.0399
p1 2.378e-06 ± 1.106e-06
17.9
17.8
17.7
17.6
17.5
17.4
0
10000
20000
30000
40000
50000
60000



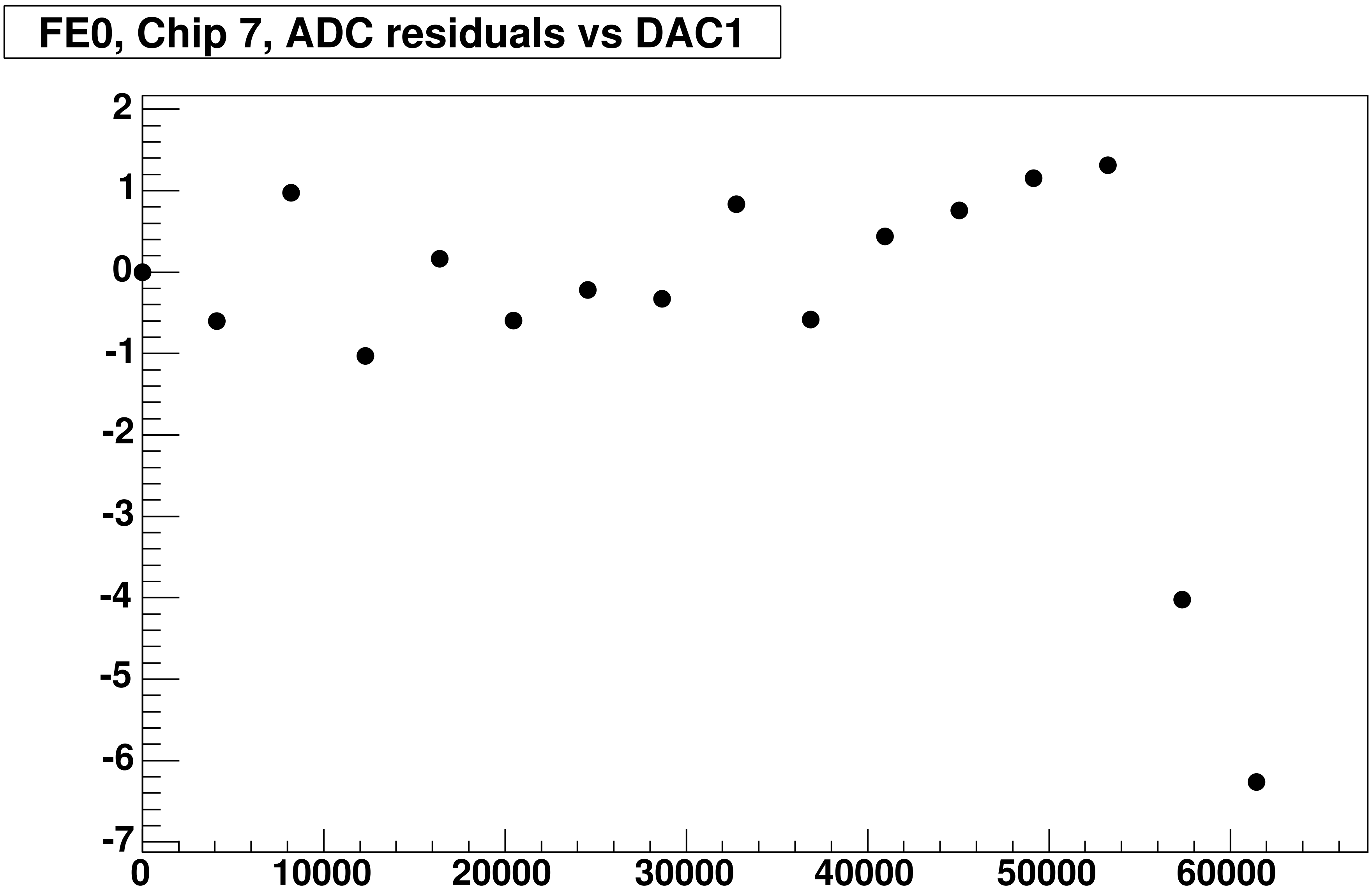
FE0, Chip 7, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

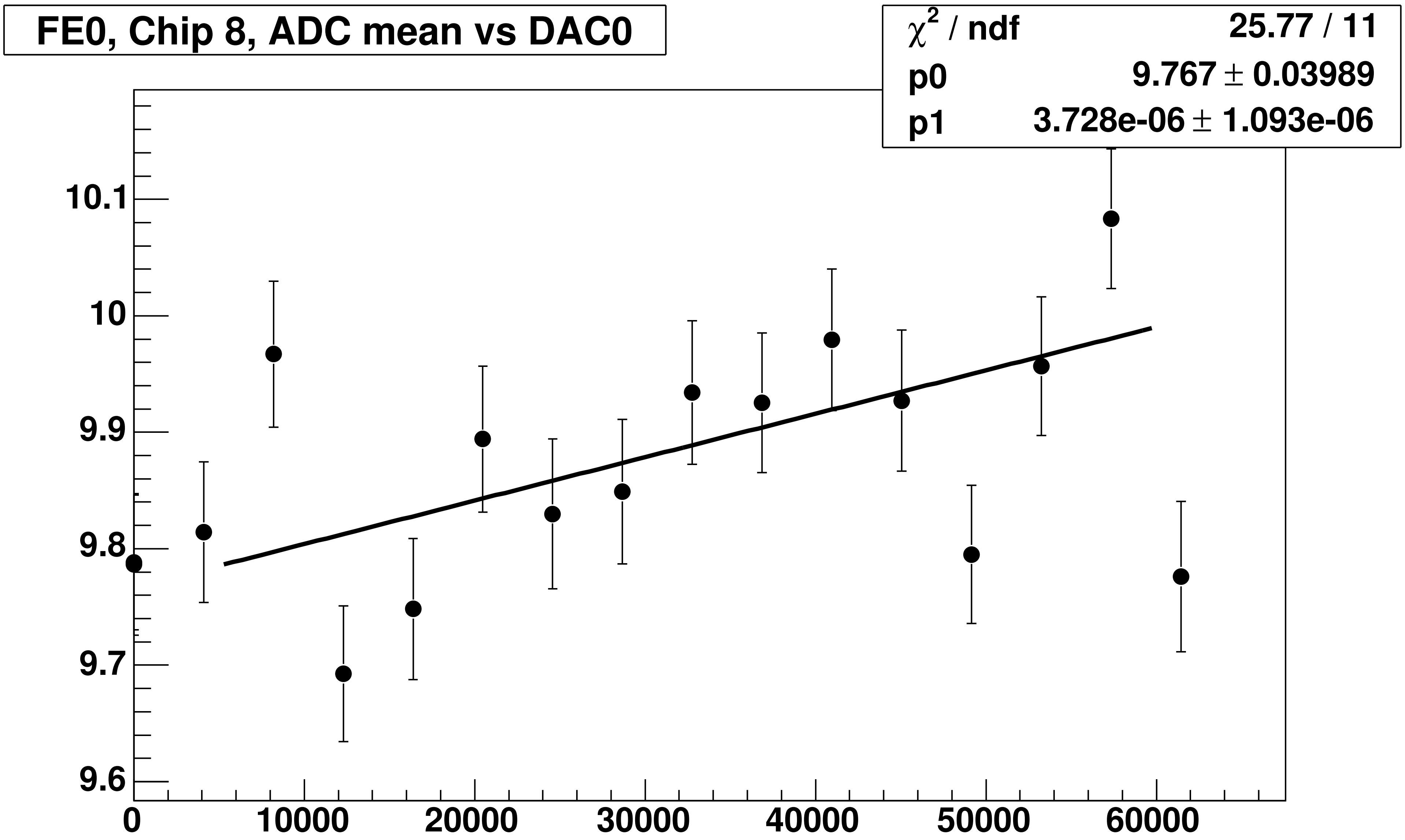

FE0, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

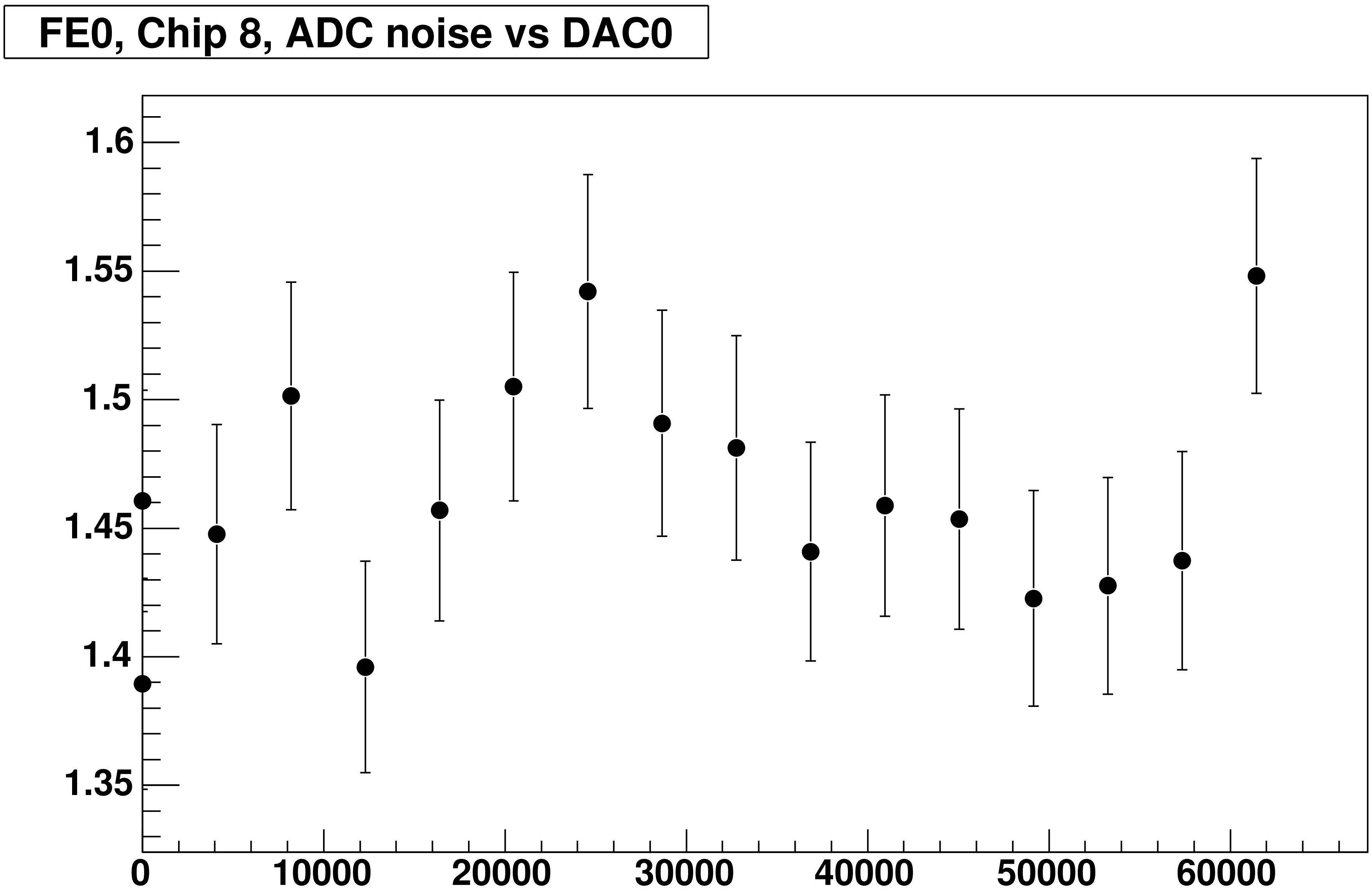

FE0, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2938 / 11
p0 19.15 ± 0.04202
p1 0.4527 ± 1.319e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

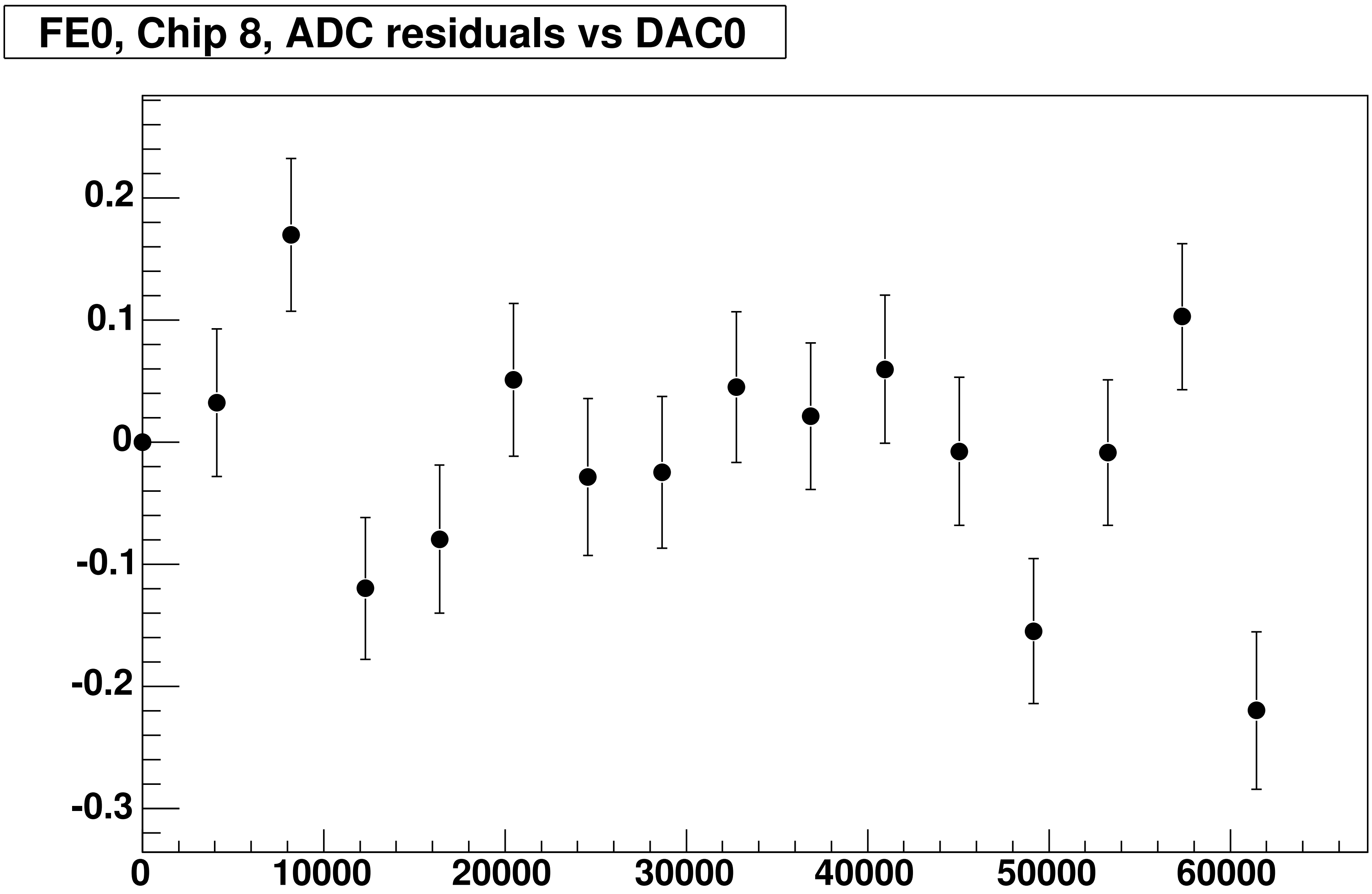


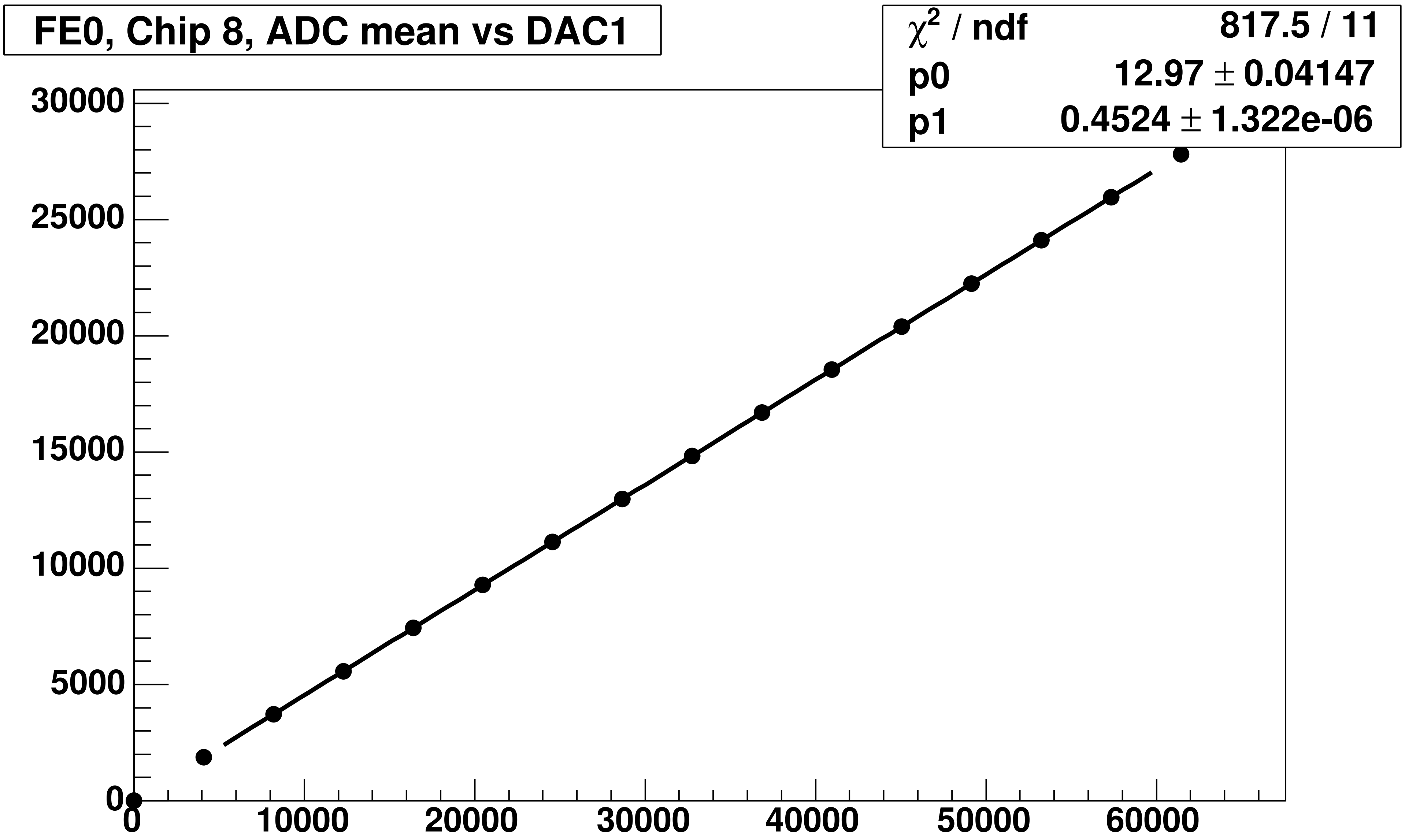
FE0, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE0, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

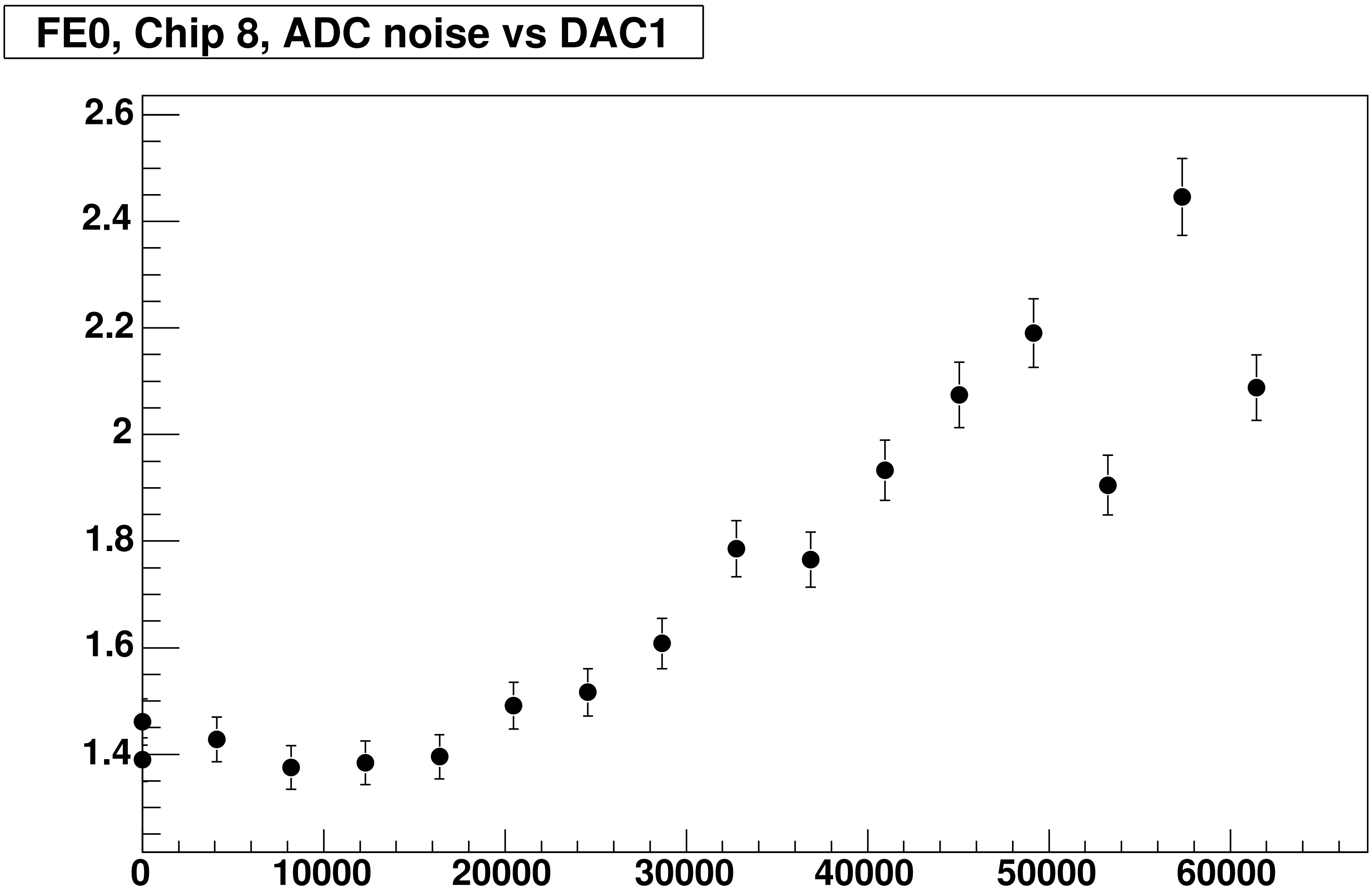

FE0, Chip 8, ADC mean vs DAC0
χ² / ndf 25.77 / 11
p0 9.767 ± 0.03989
p1 3.728e-06 ± 1.093e-06
10.1
10
9.9
9.8
9.7
9.6
0
10000
20000
30000
40000
50000
60000

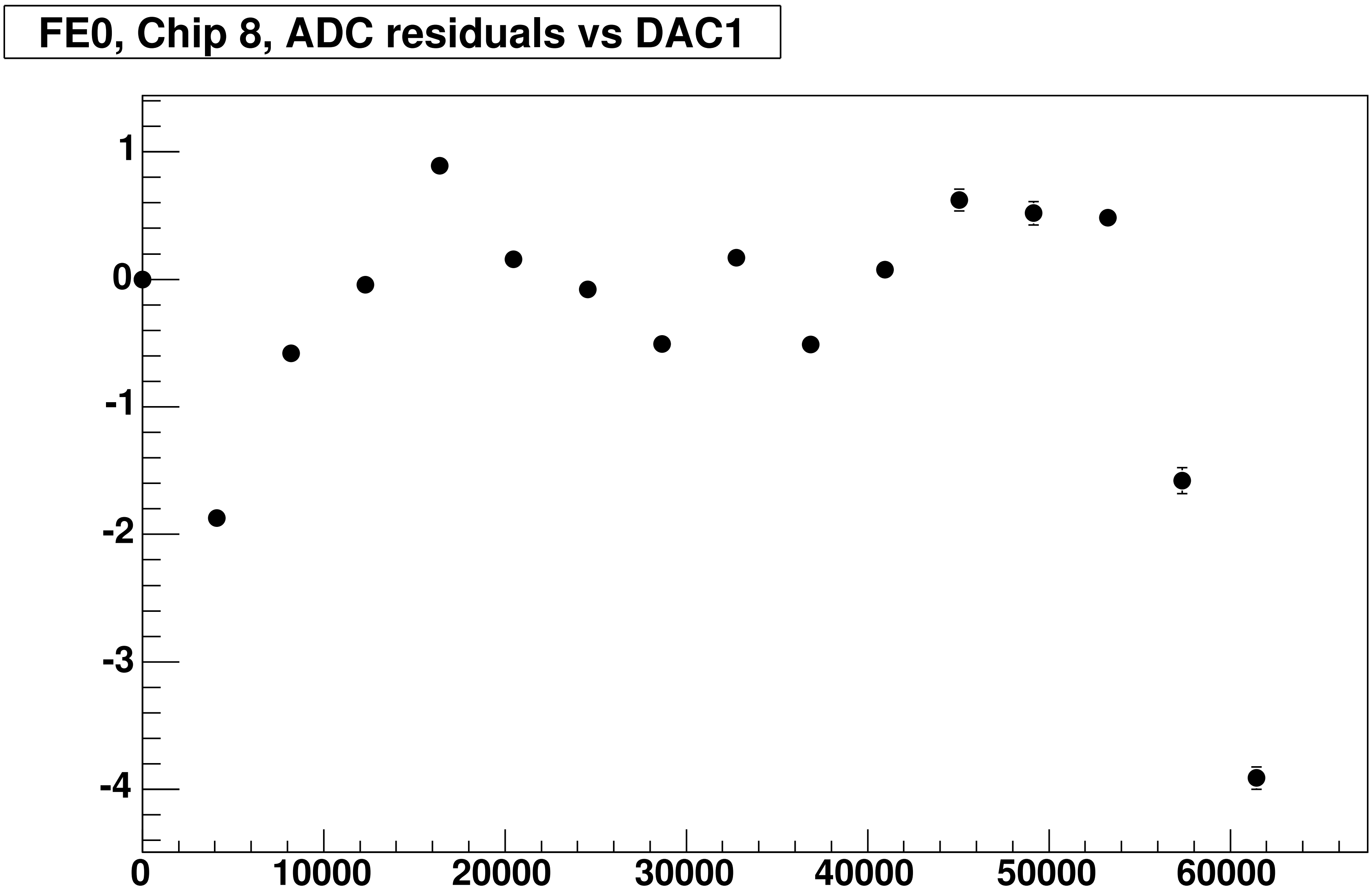

FE0, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

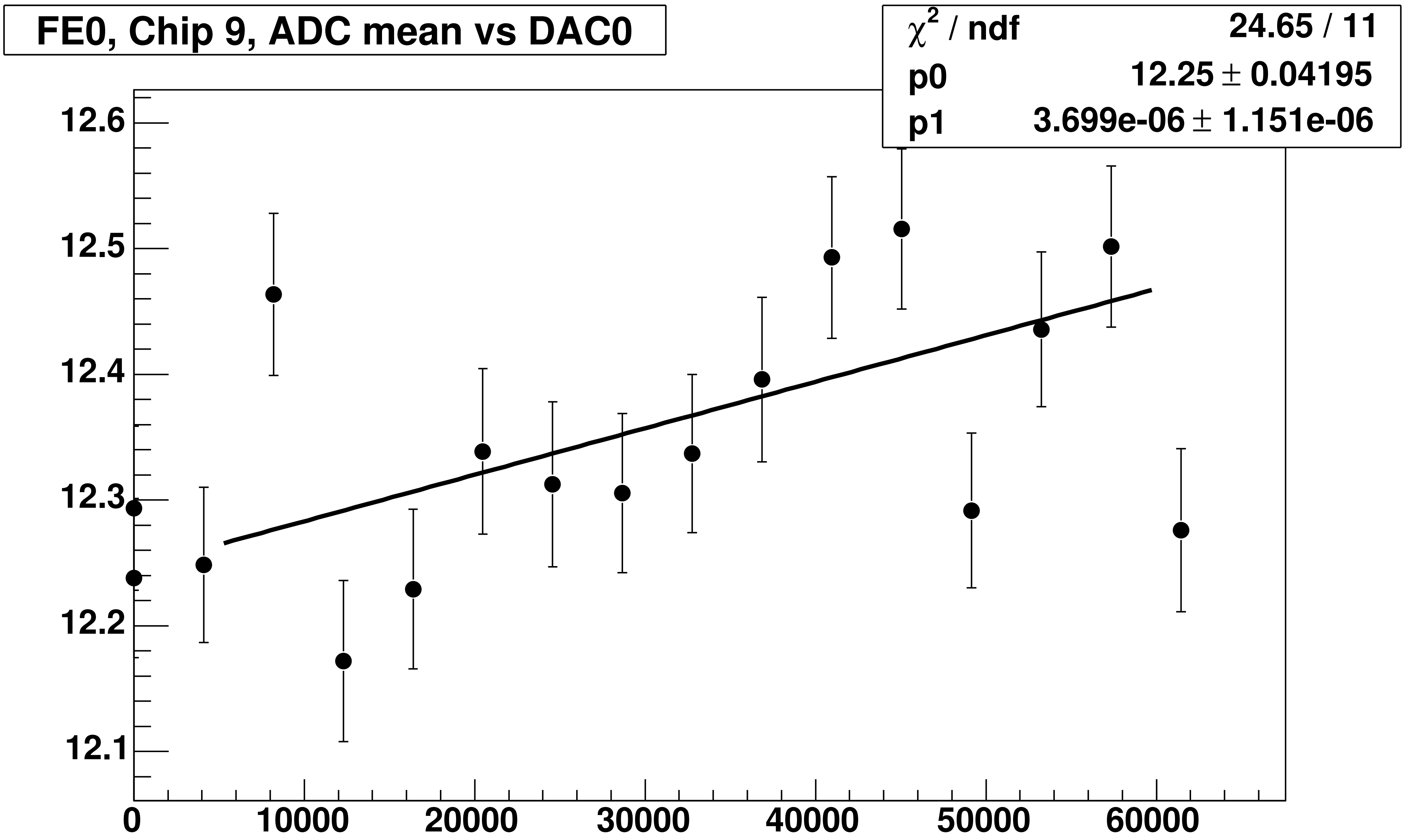

FE0, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

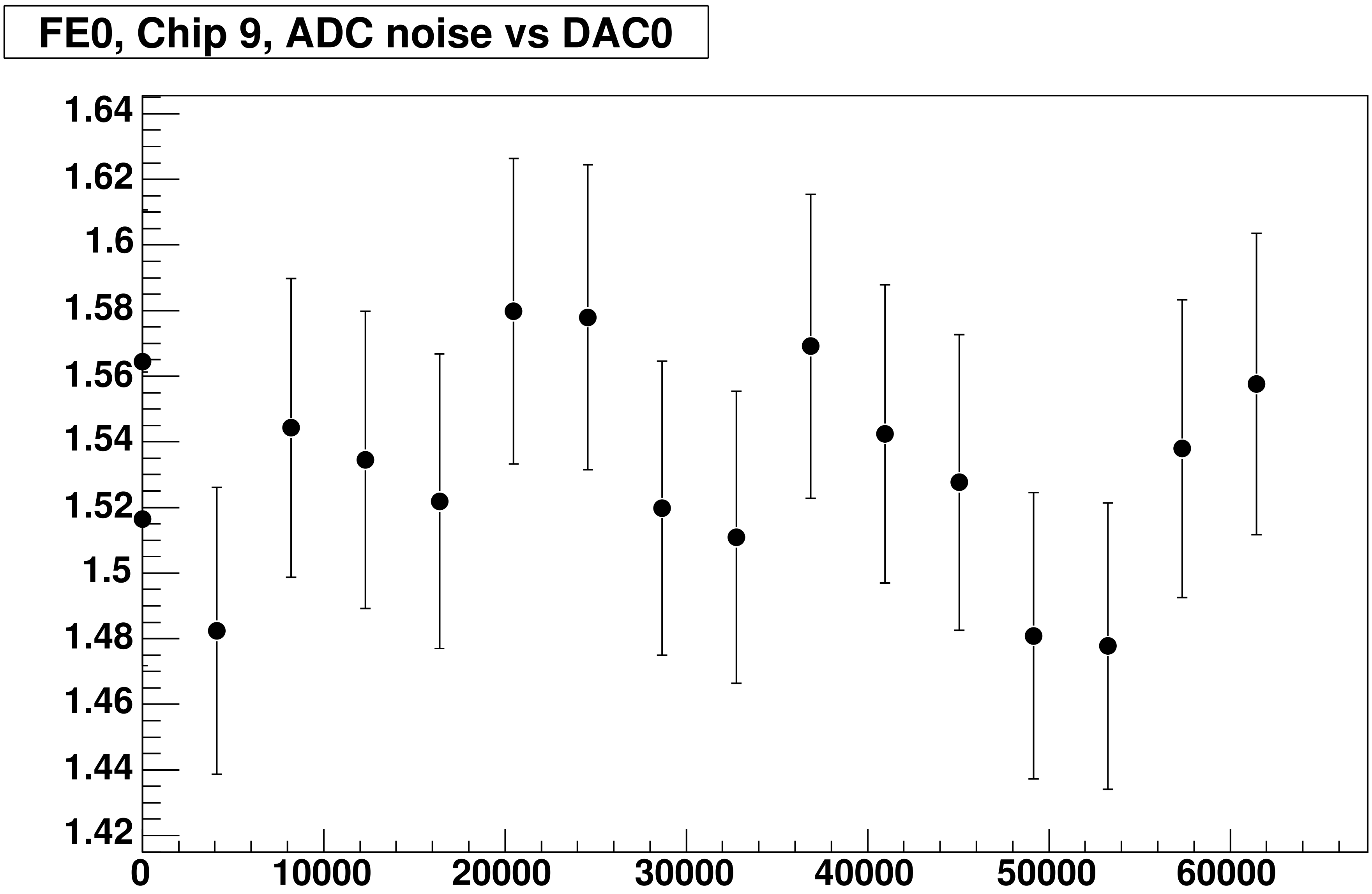


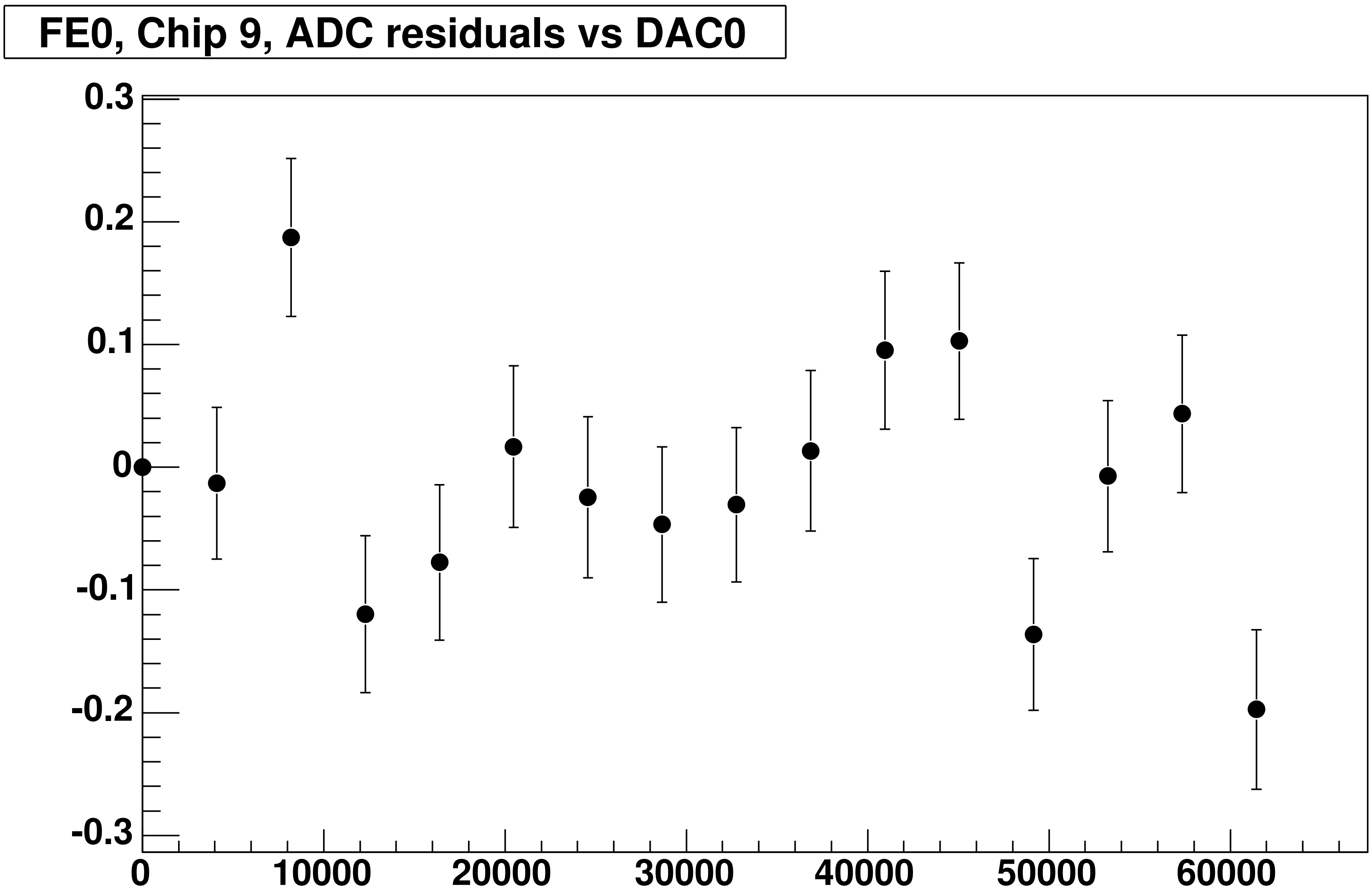
FE0, Chip 8, ADC mean vs DAC1
χ2 / ndf 817.5 / 11
p0 12.97 ± 0.04147
p1 0.4524 ± 1.322e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

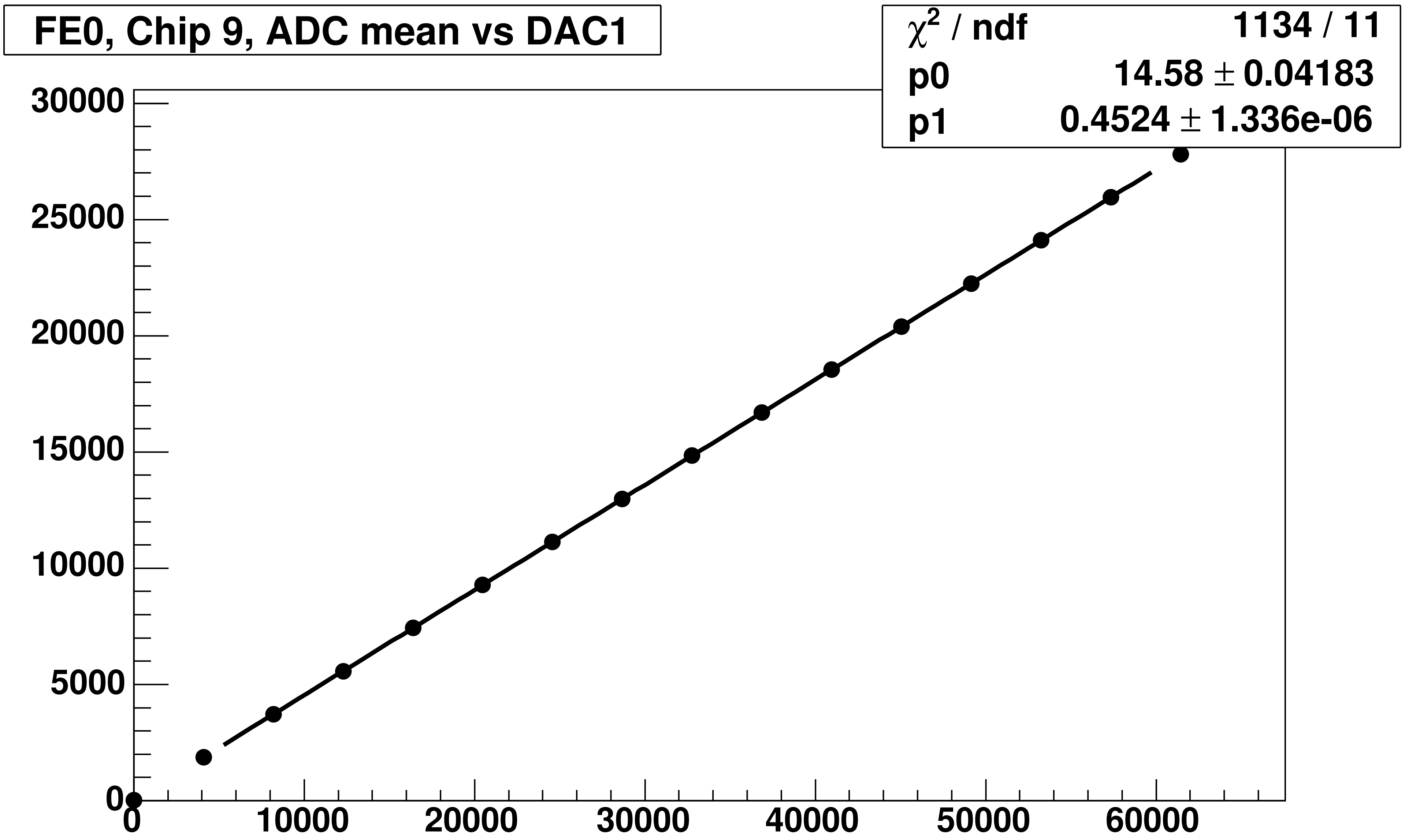

FE0, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

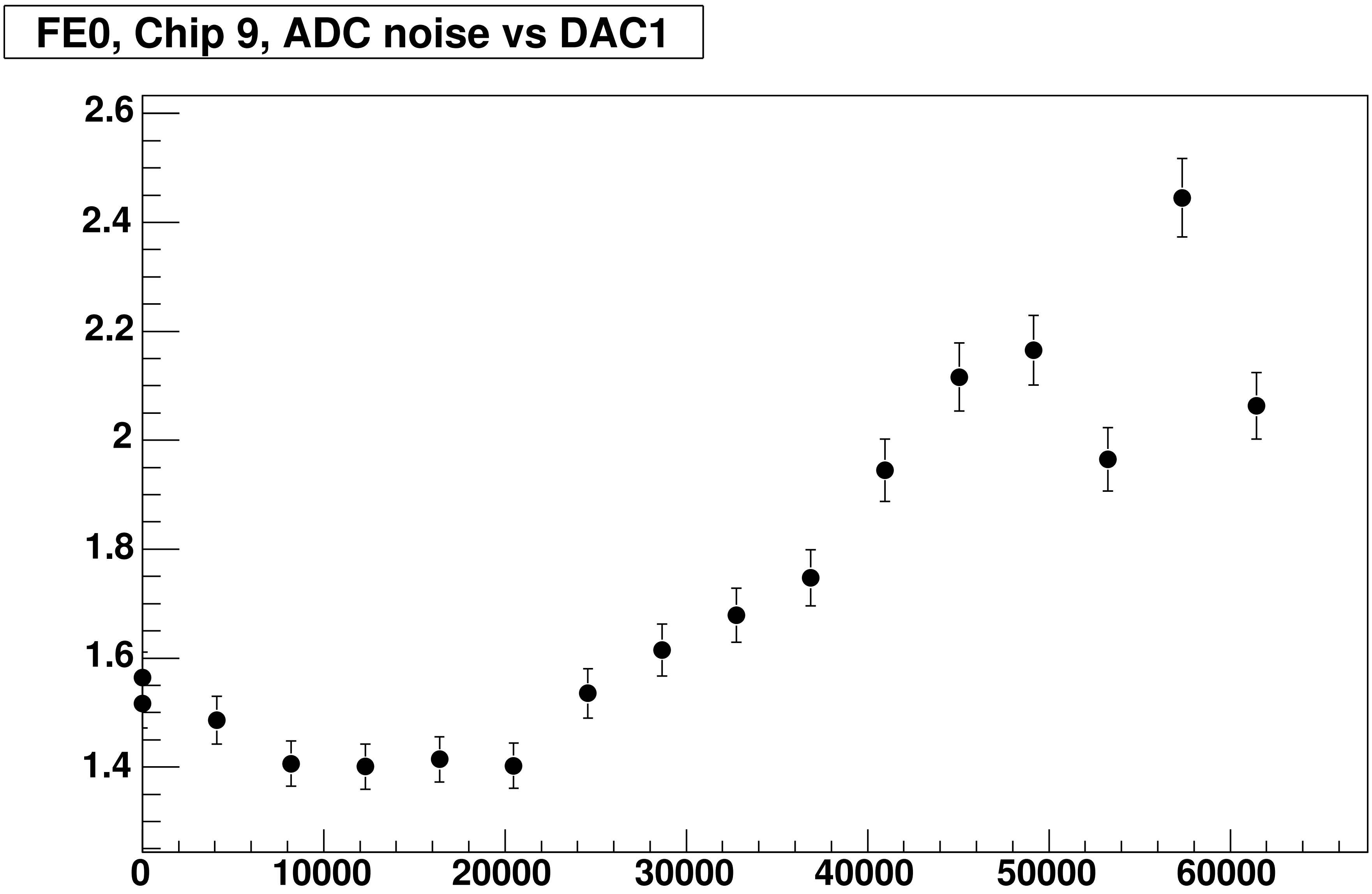

FE0, Chip 9, ADC mean vs DAC0
χ^2 / ndf 24.65 / 11
p0 12.25 ± 0.04195
p1 3.699e-06 ± 1.151e-06
12.6
12.5
12.4
12.3
12.2
12.1
0
10000
20000
30000
40000
50000
60000

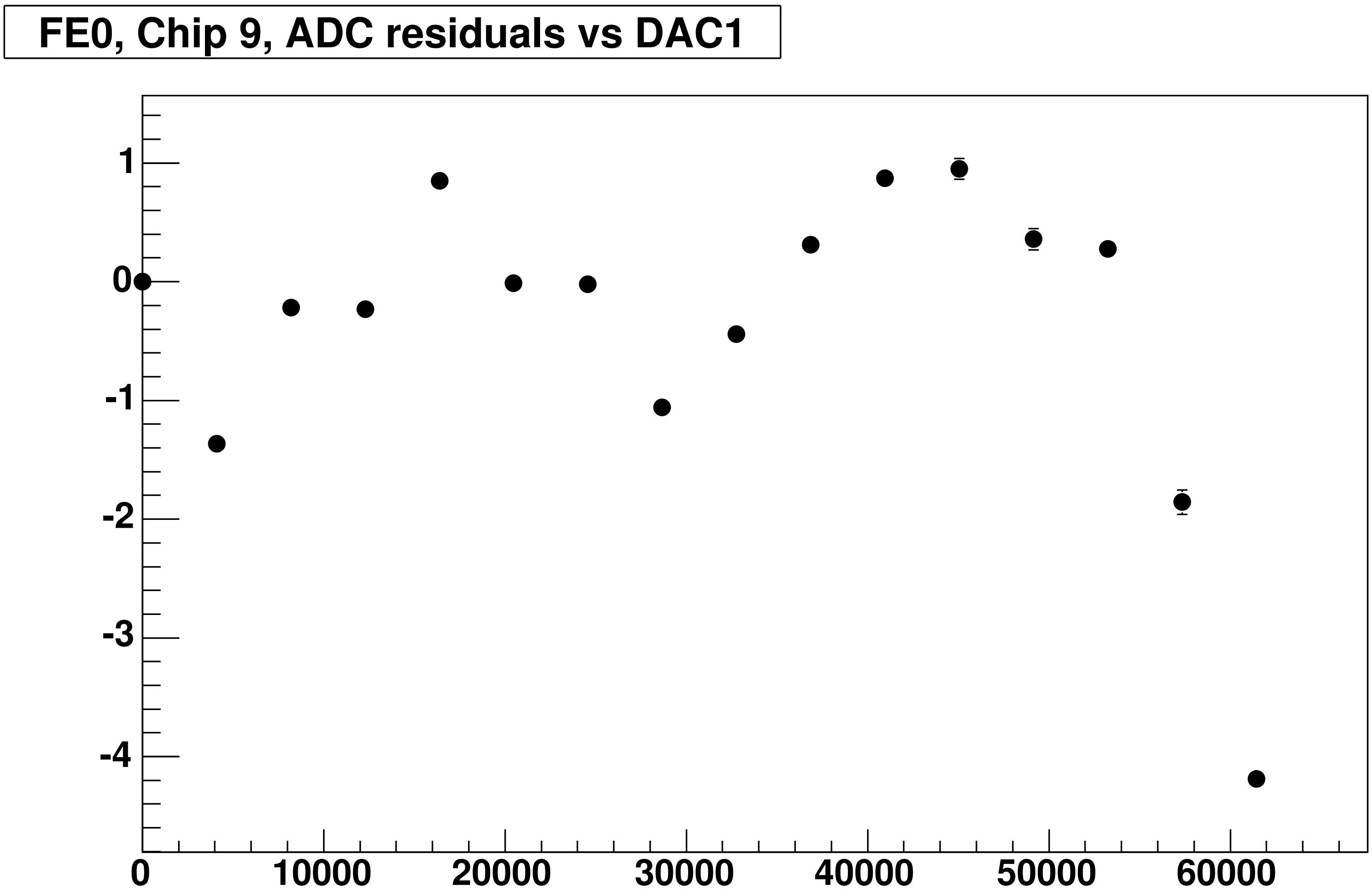

FE0, Chip 9, ADC noise vs DAC0
1.64
1.62
1.6
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
0
10000
20000
30000
40000
50000
60000

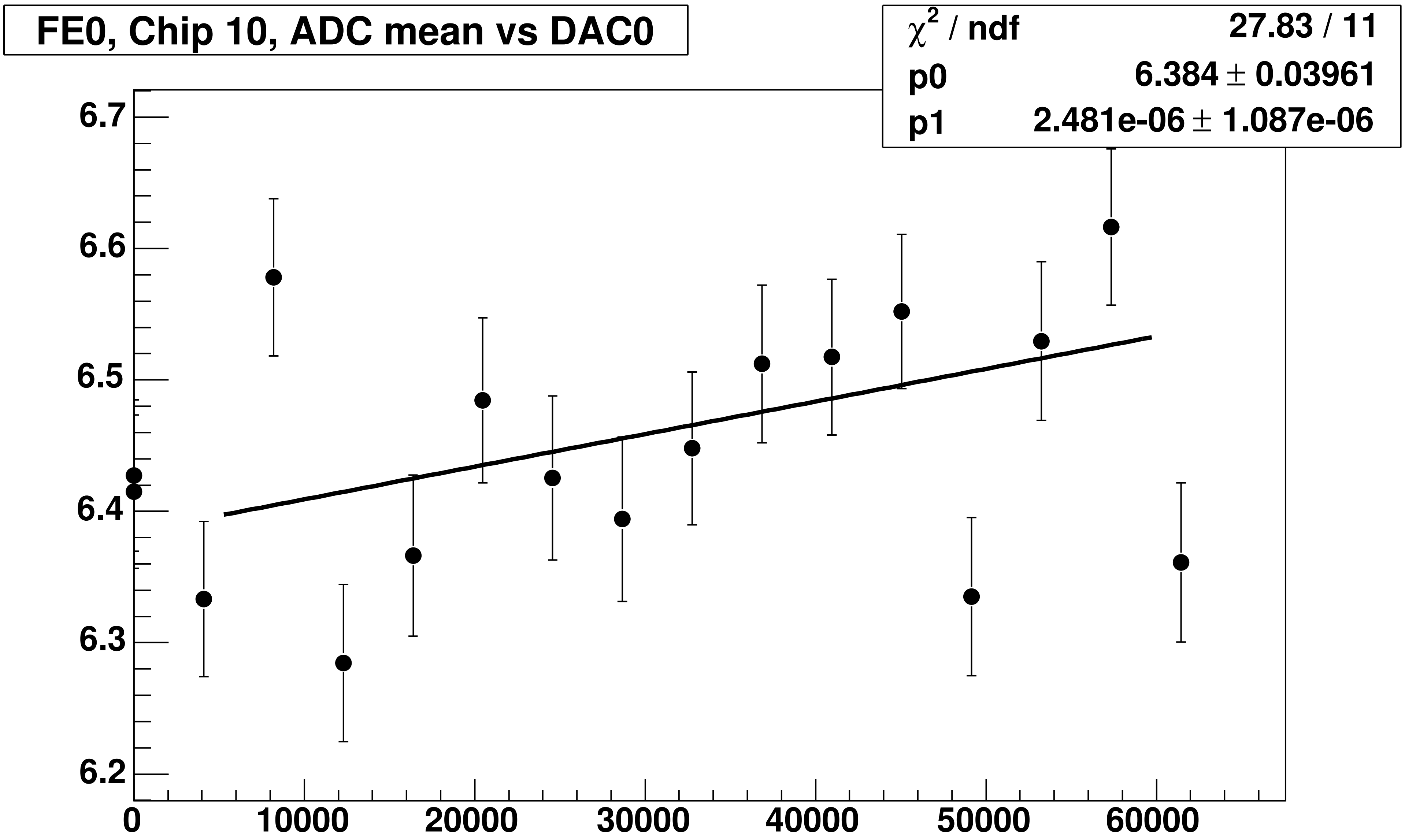

FE0, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

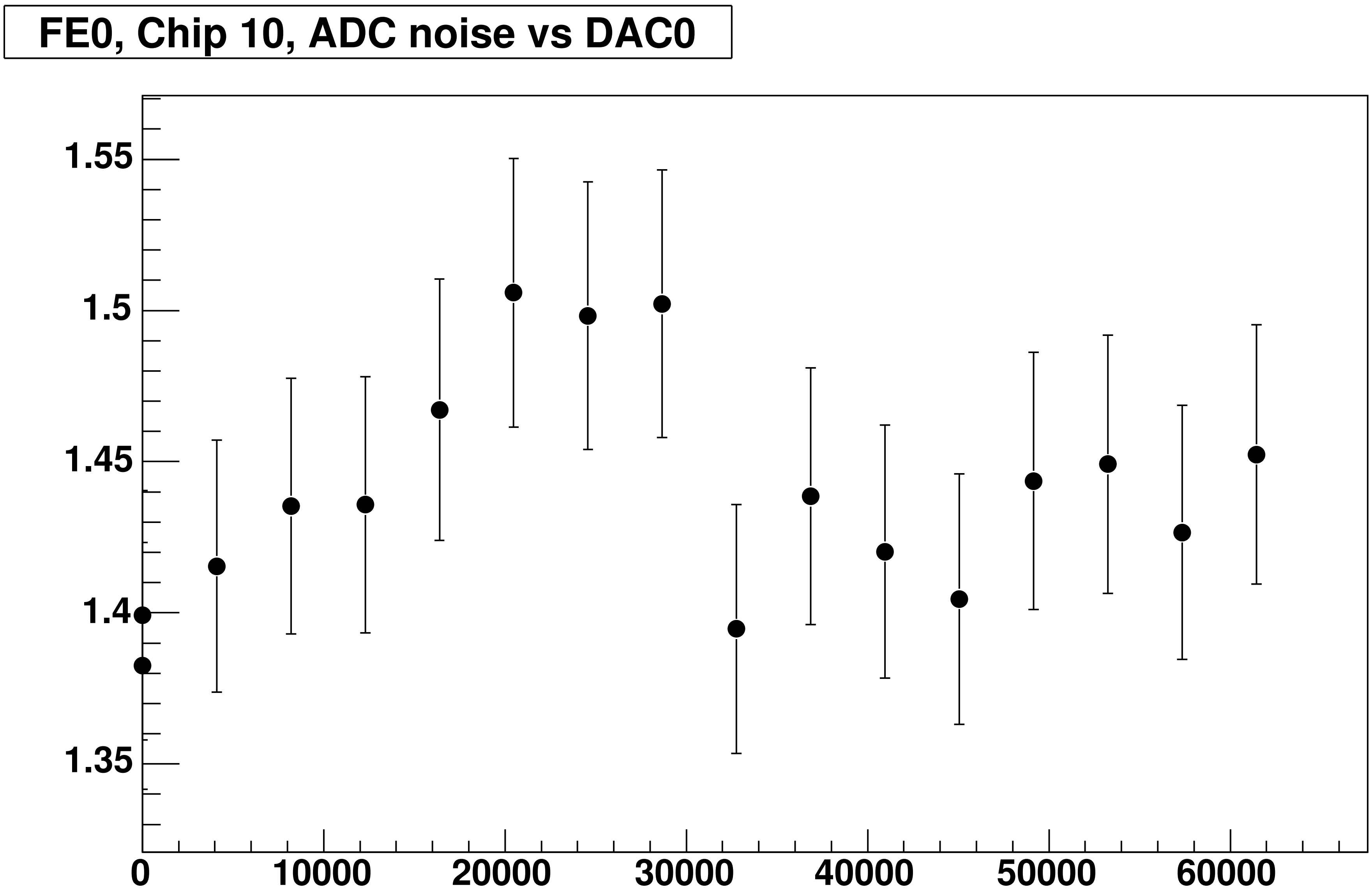


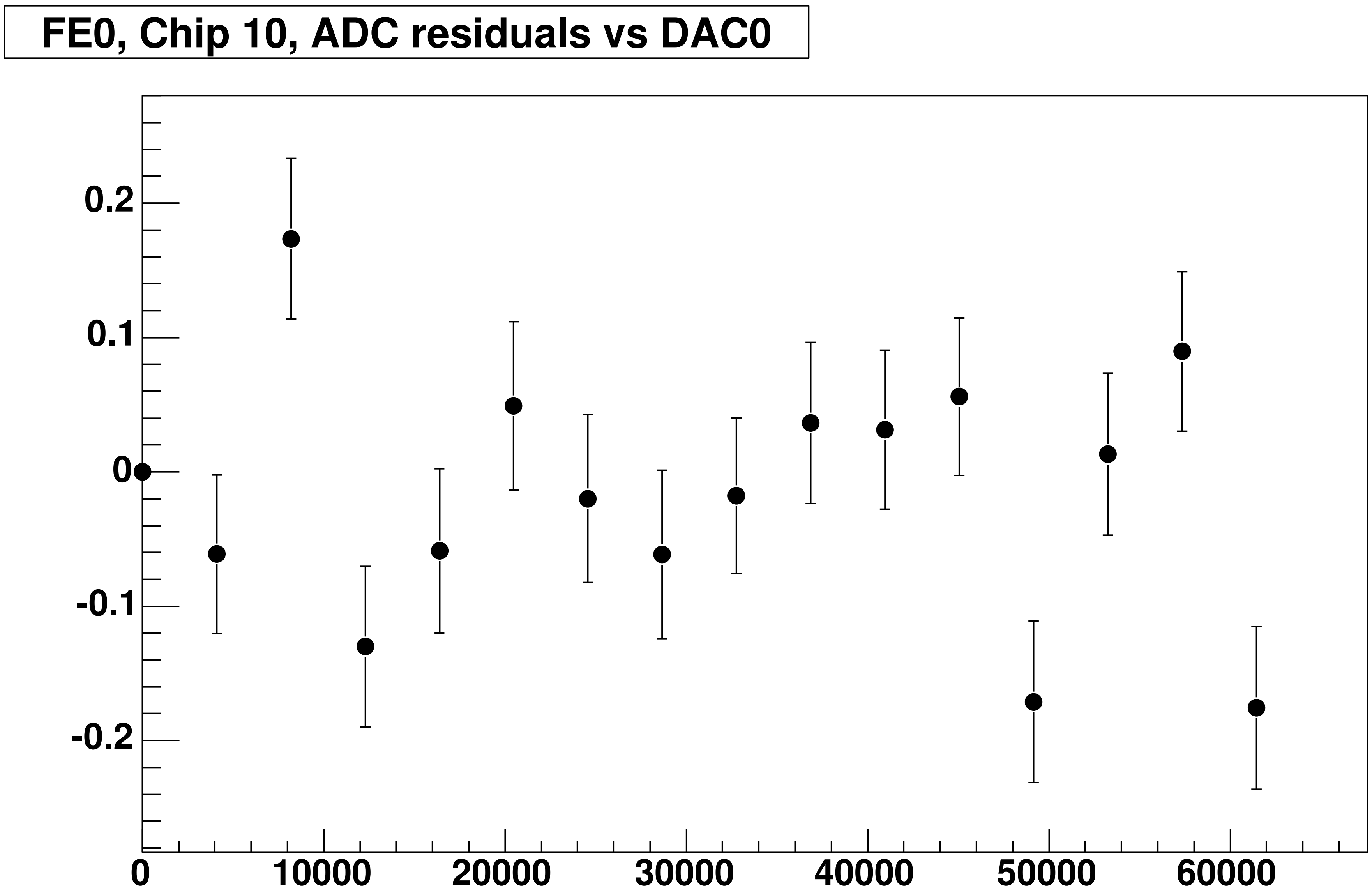
FE0, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1134 / 11
p0 14.58 ± 0.04183
p1 0.4524 ± 1.336e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

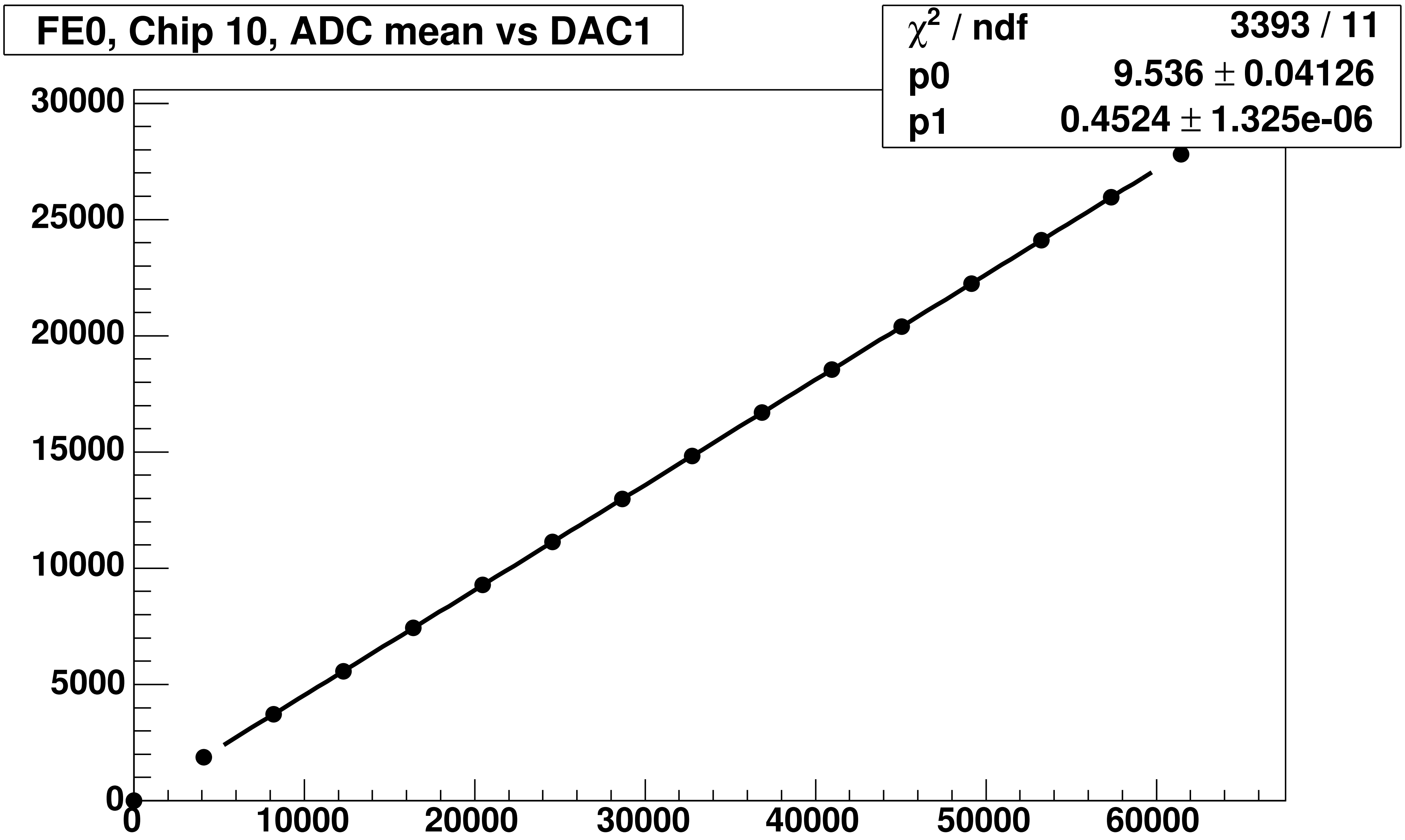

FE0, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

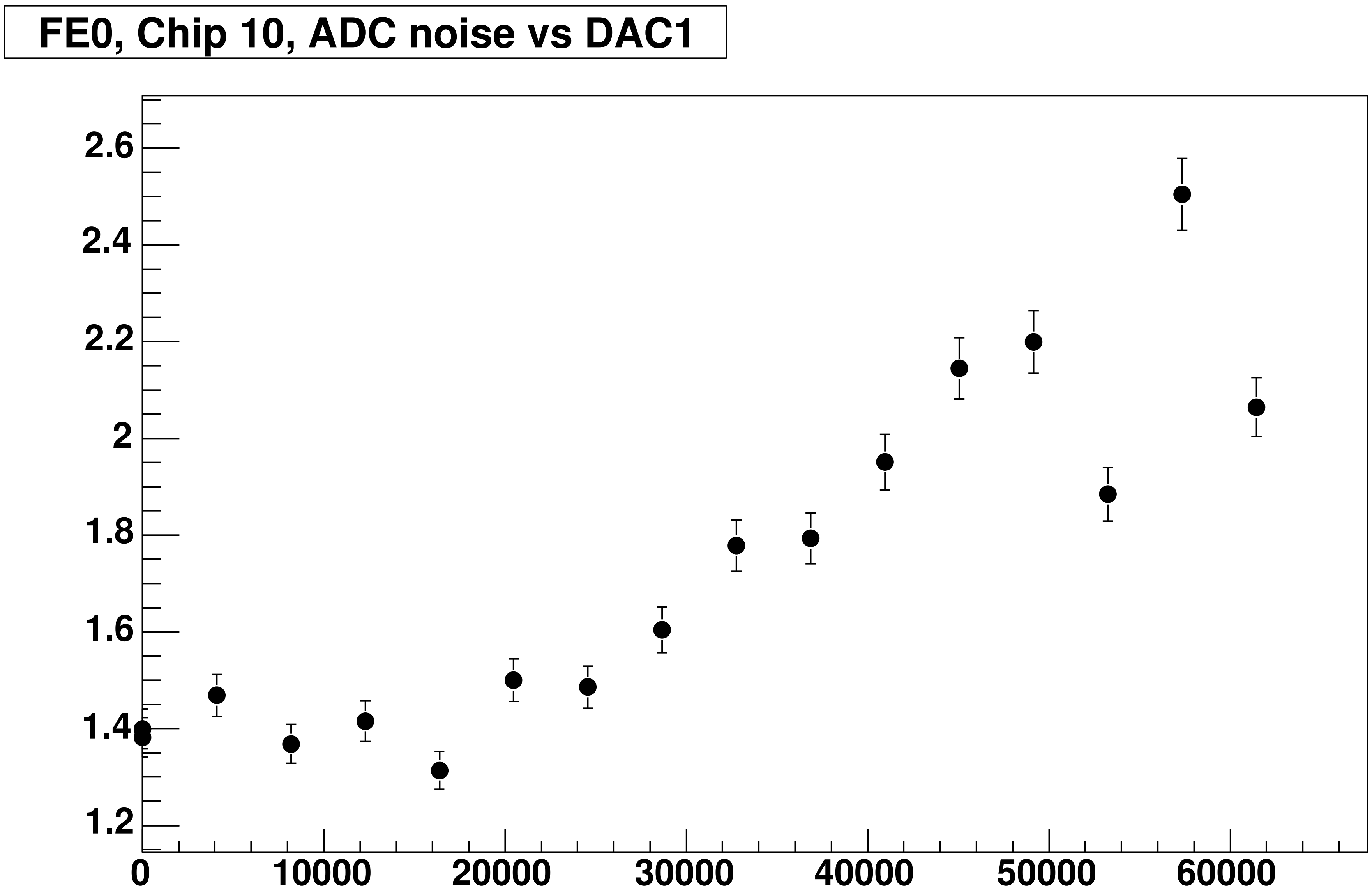

FE0, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

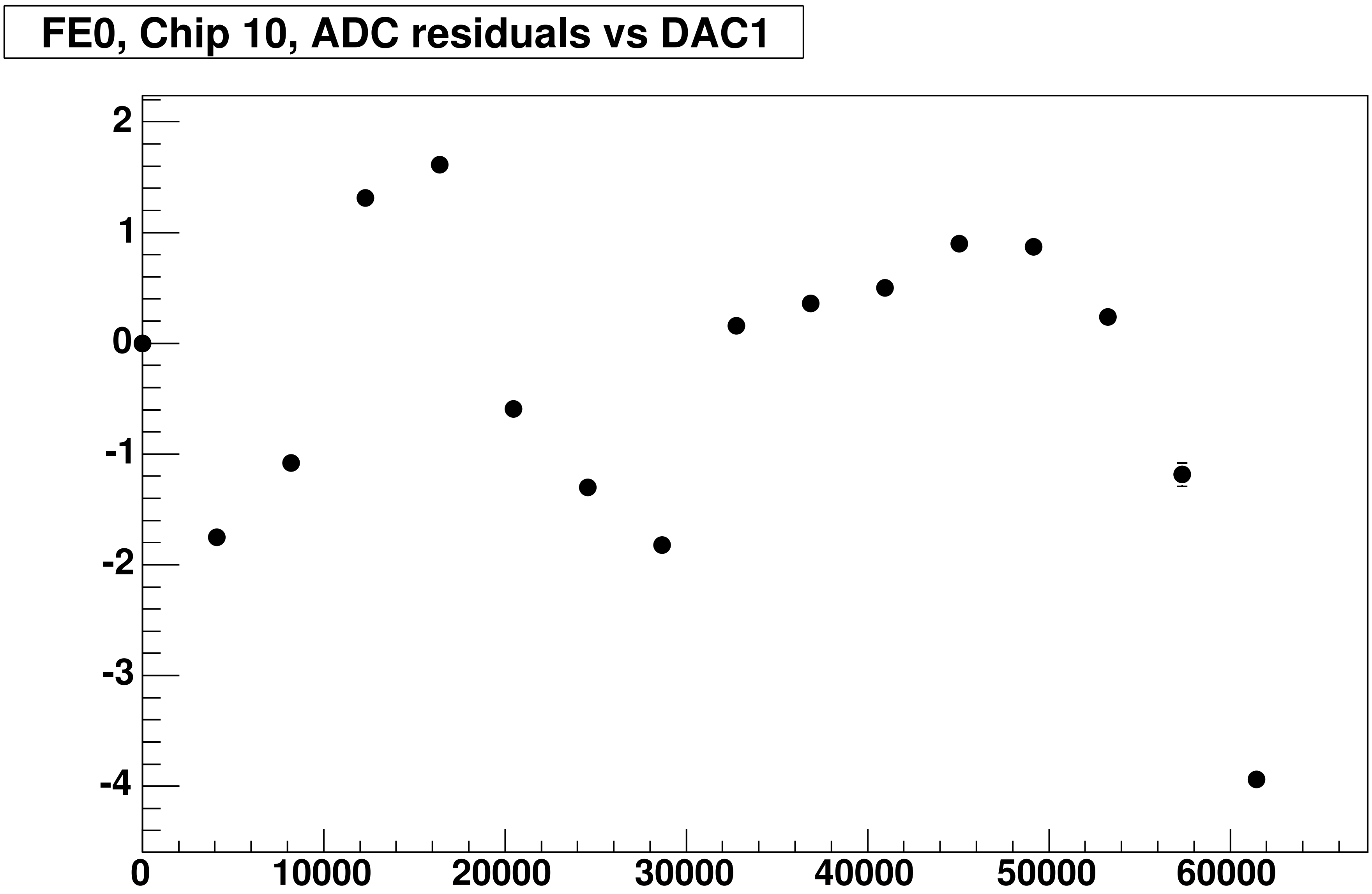

FE0, Chip 10, ADC mean vs DAC0
χ^2 / ndf 27.83 / 11
p0 6.384 ± 0.03961
p1 2.481e-06 ± 1.087e-06
6.2
6.3
6.4
6.5
6.6
6.7
0
10000
20000
30000
40000
50000
60000

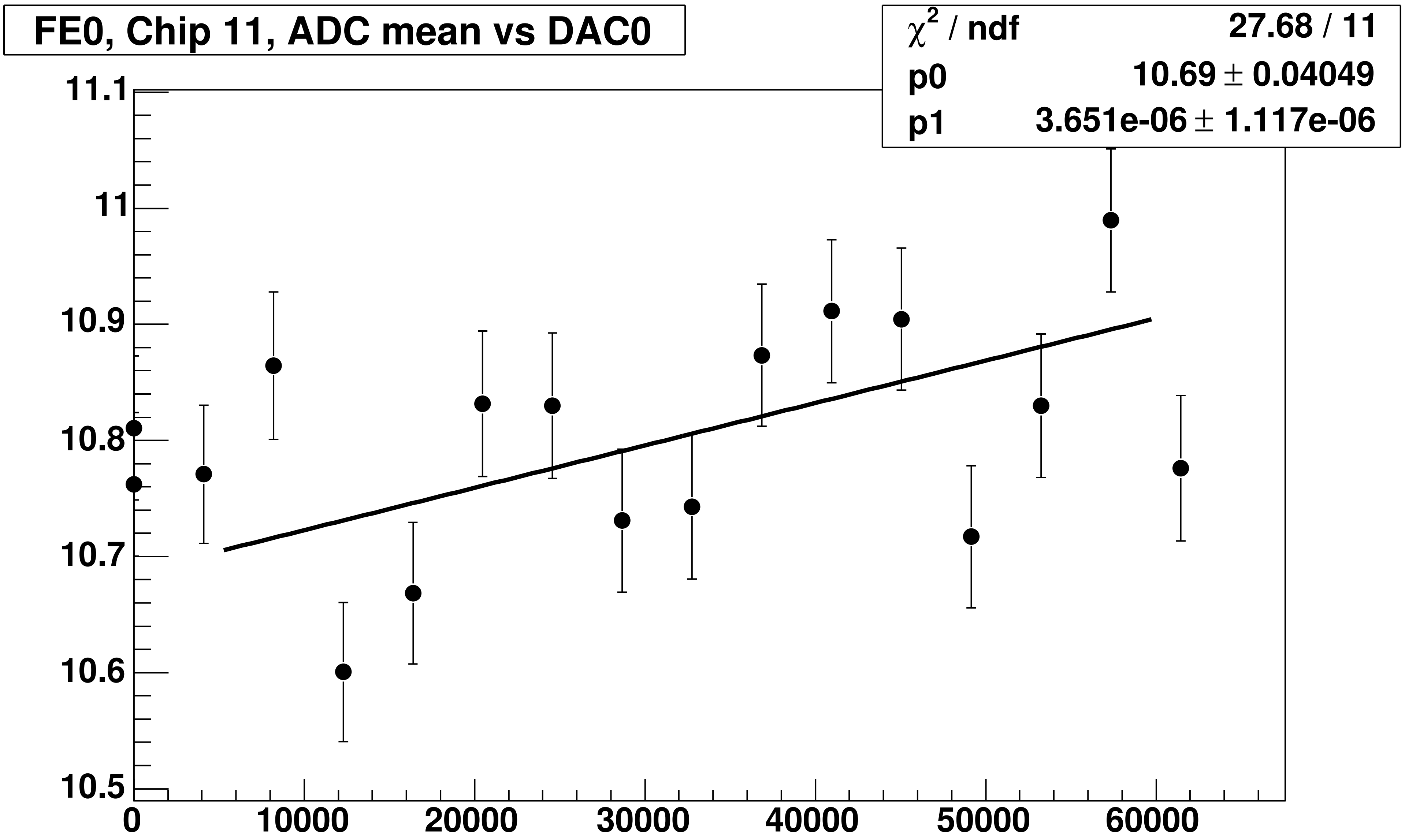

FE0, Chip 10, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

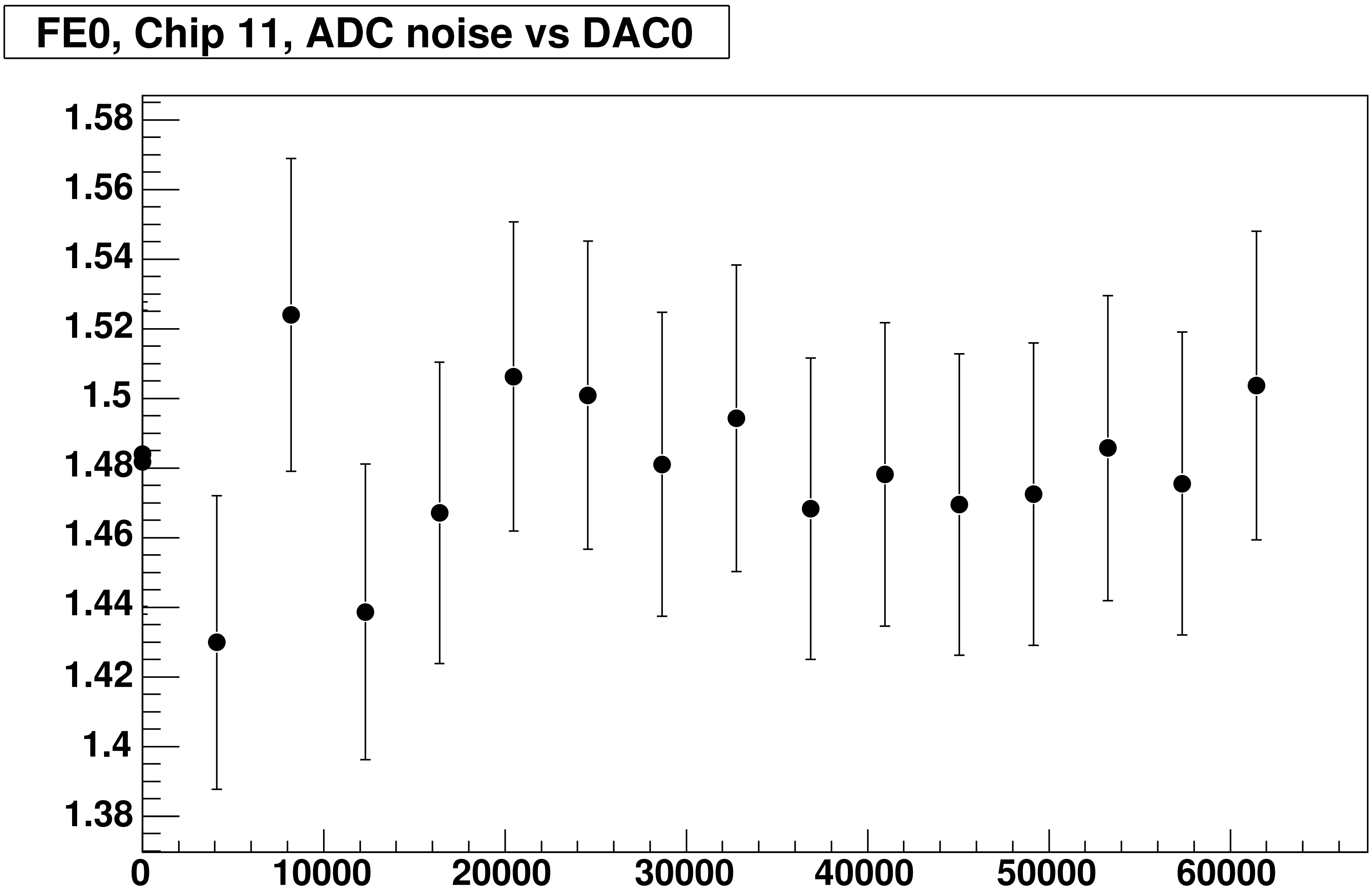

FE0, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

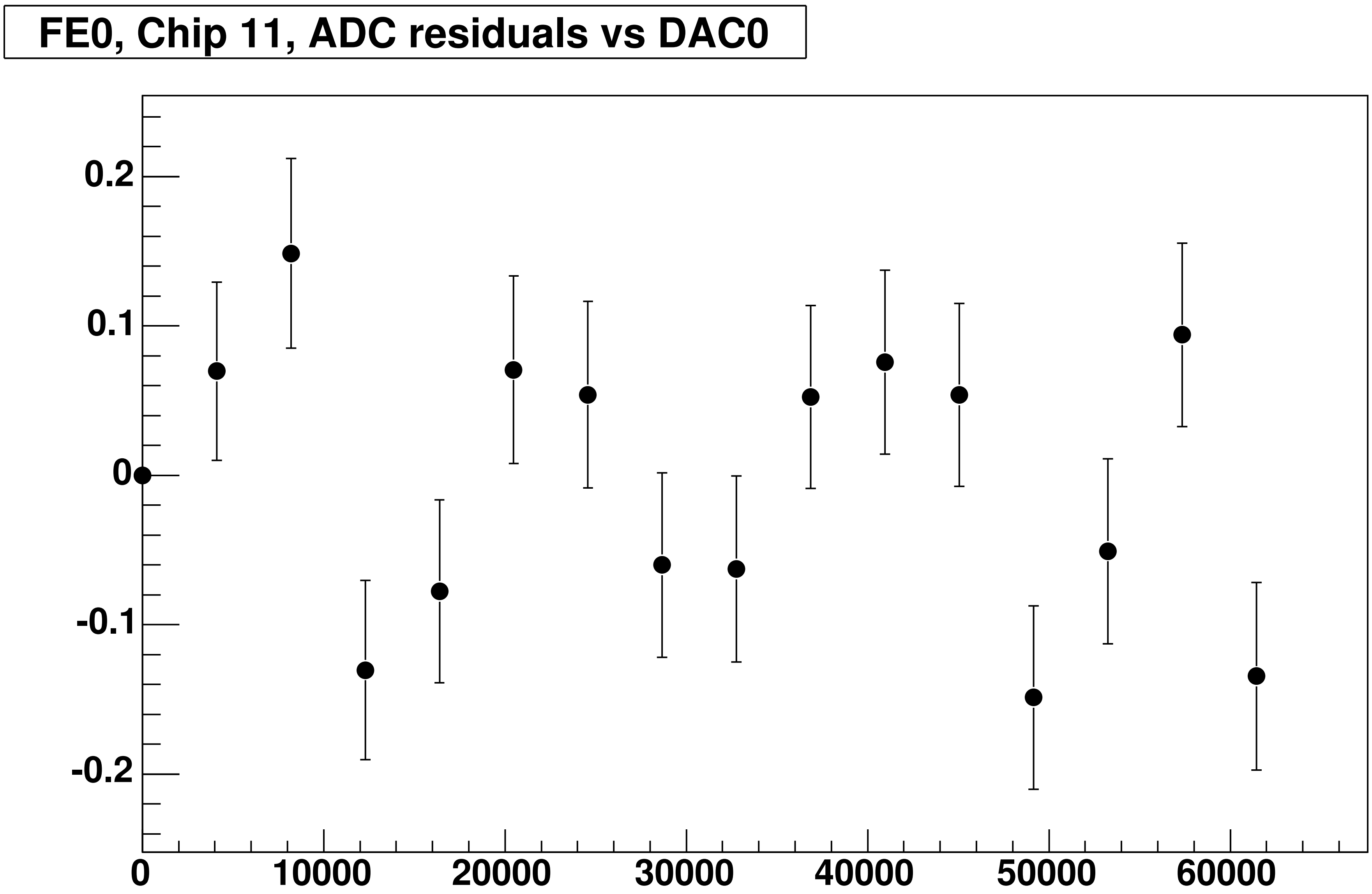

FE0, Chip 10, ADC mean vs DAC1
χ^2 / ndf 3393 / 11
p0 9.536 ± 0.04126
p1 0.4524 ± 1.325e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

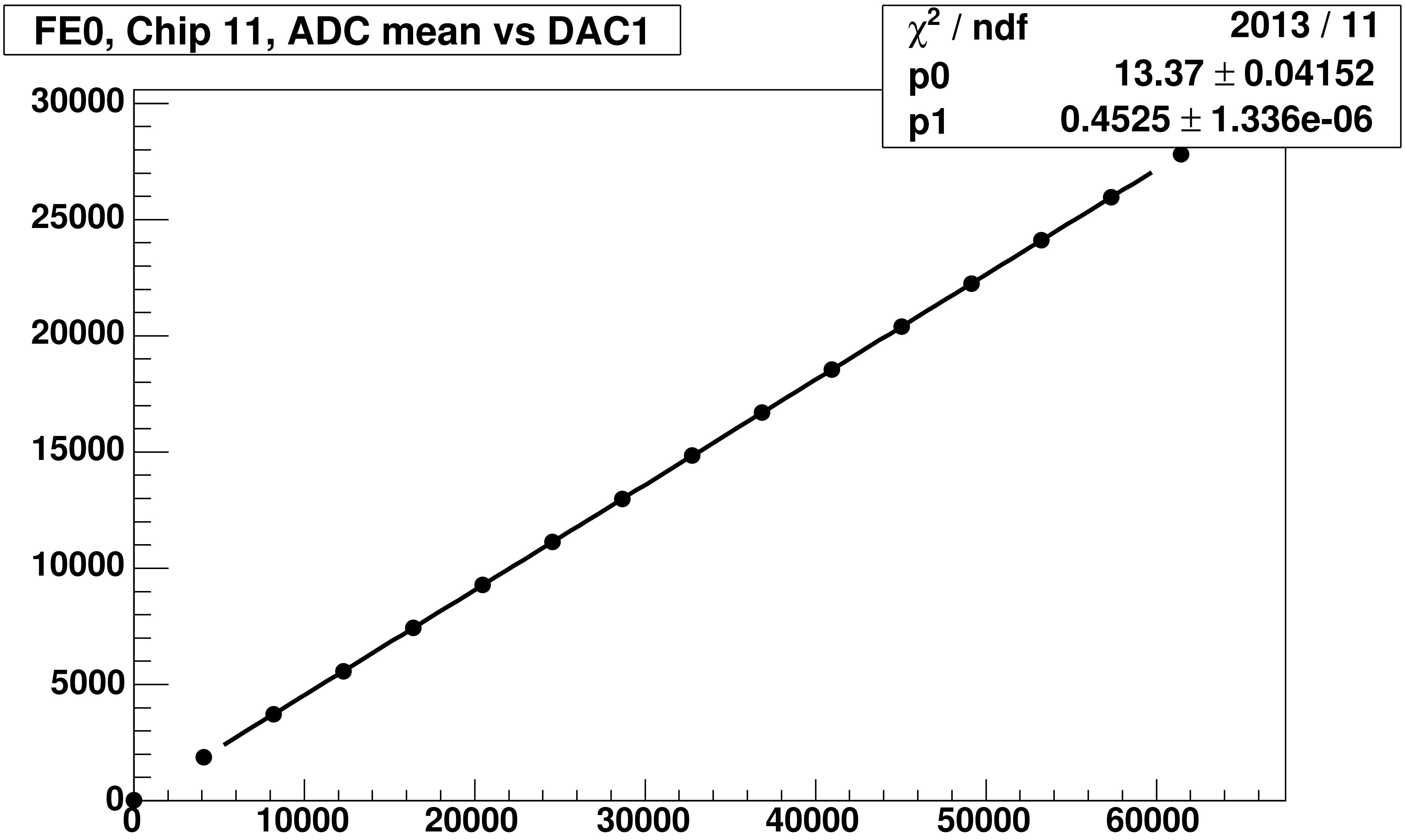

FE0, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

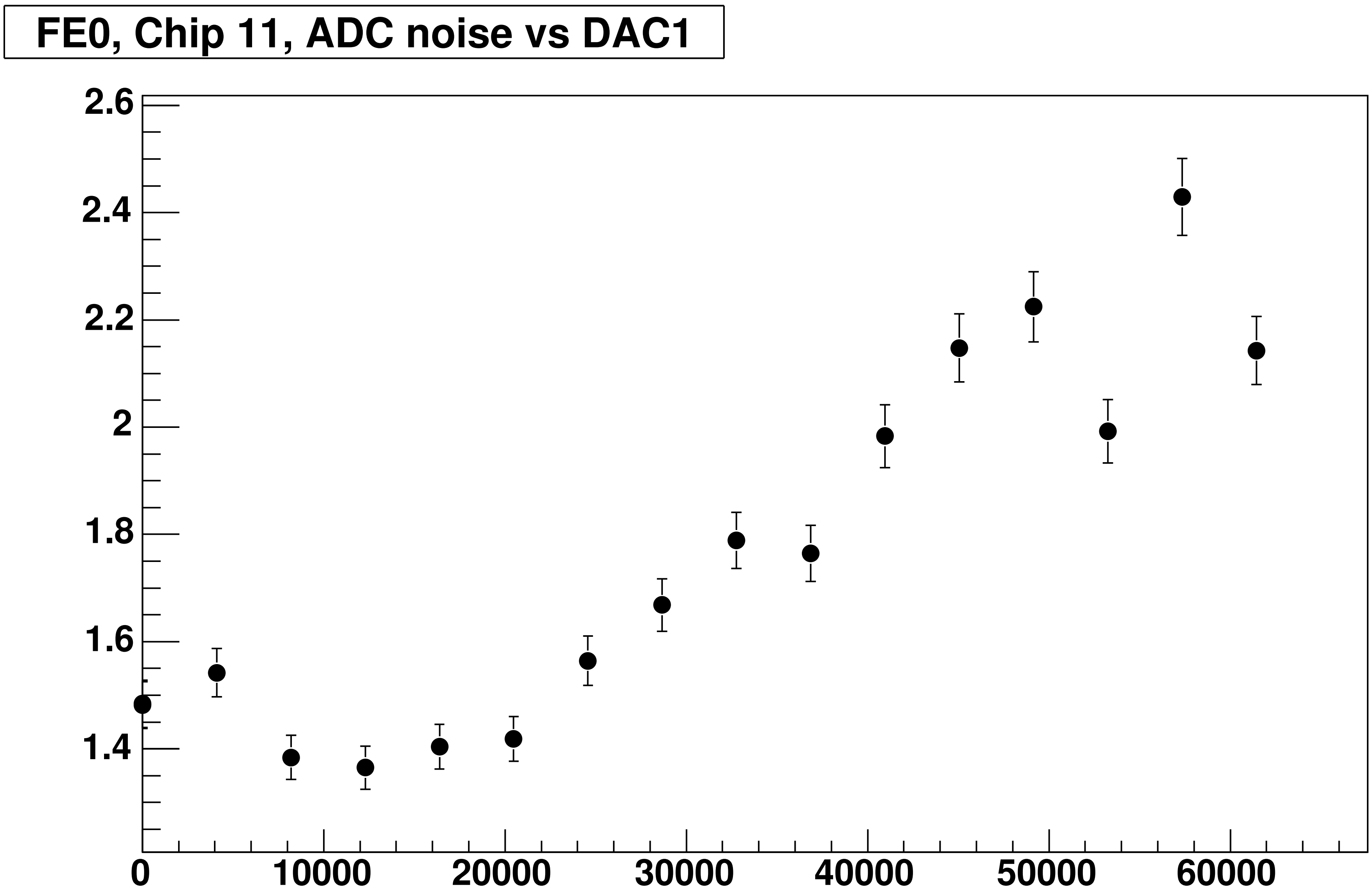

FE0, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000


FE0, Chip 11, ADC mean vs DAC0
χ² / ndf 27.68 / 11
p0 10.69 ± 0.04049
p1 3.651e-06 ± 1.117e-06
11.1
11
10.9
10.8
10.7
10.6
10.5
0
10000
20000
30000
40000
50000
60000

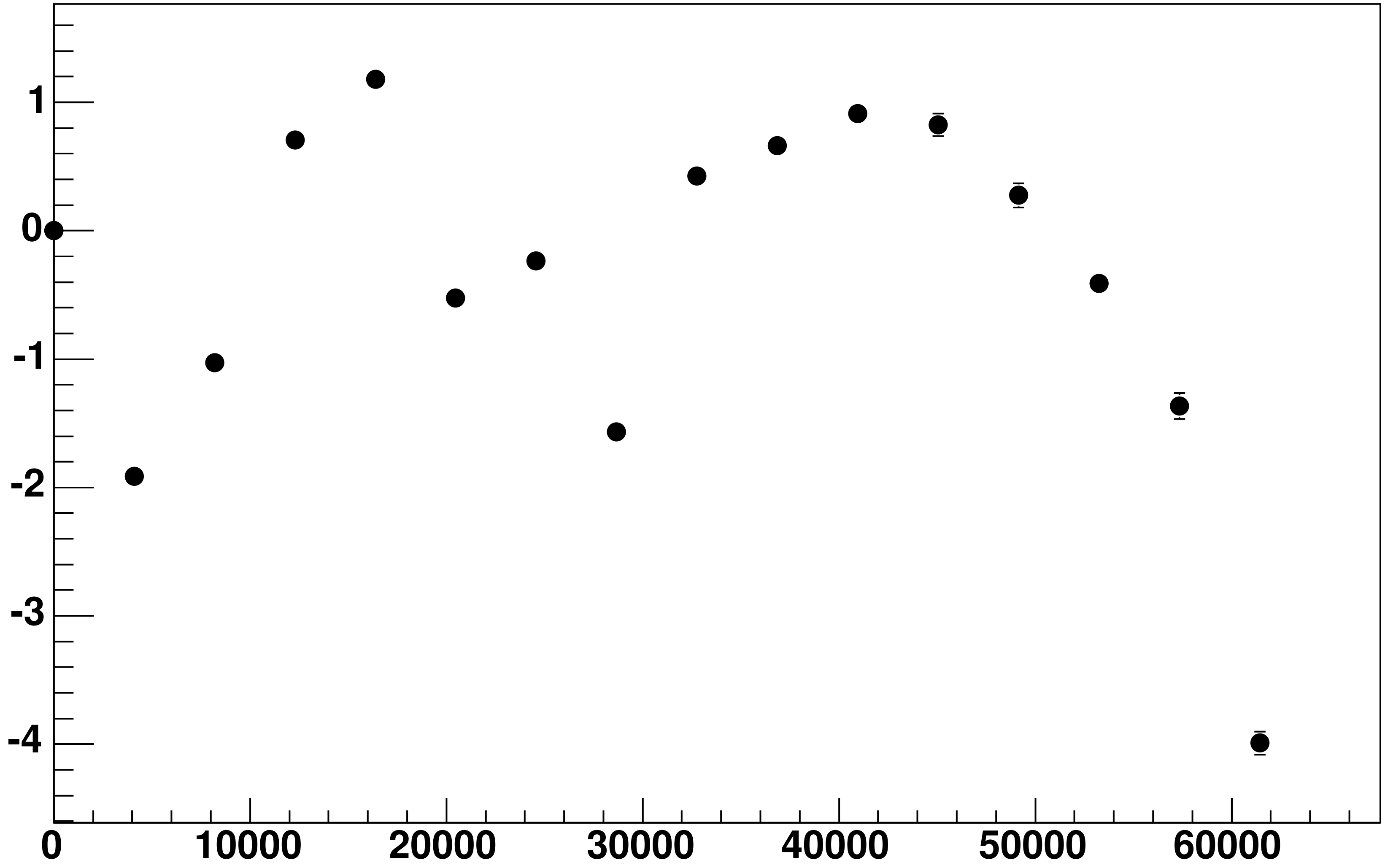

FE0, Chip 11, ADC noise vs DAC0
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
0
10000
20000
30000
40000
50000
60000

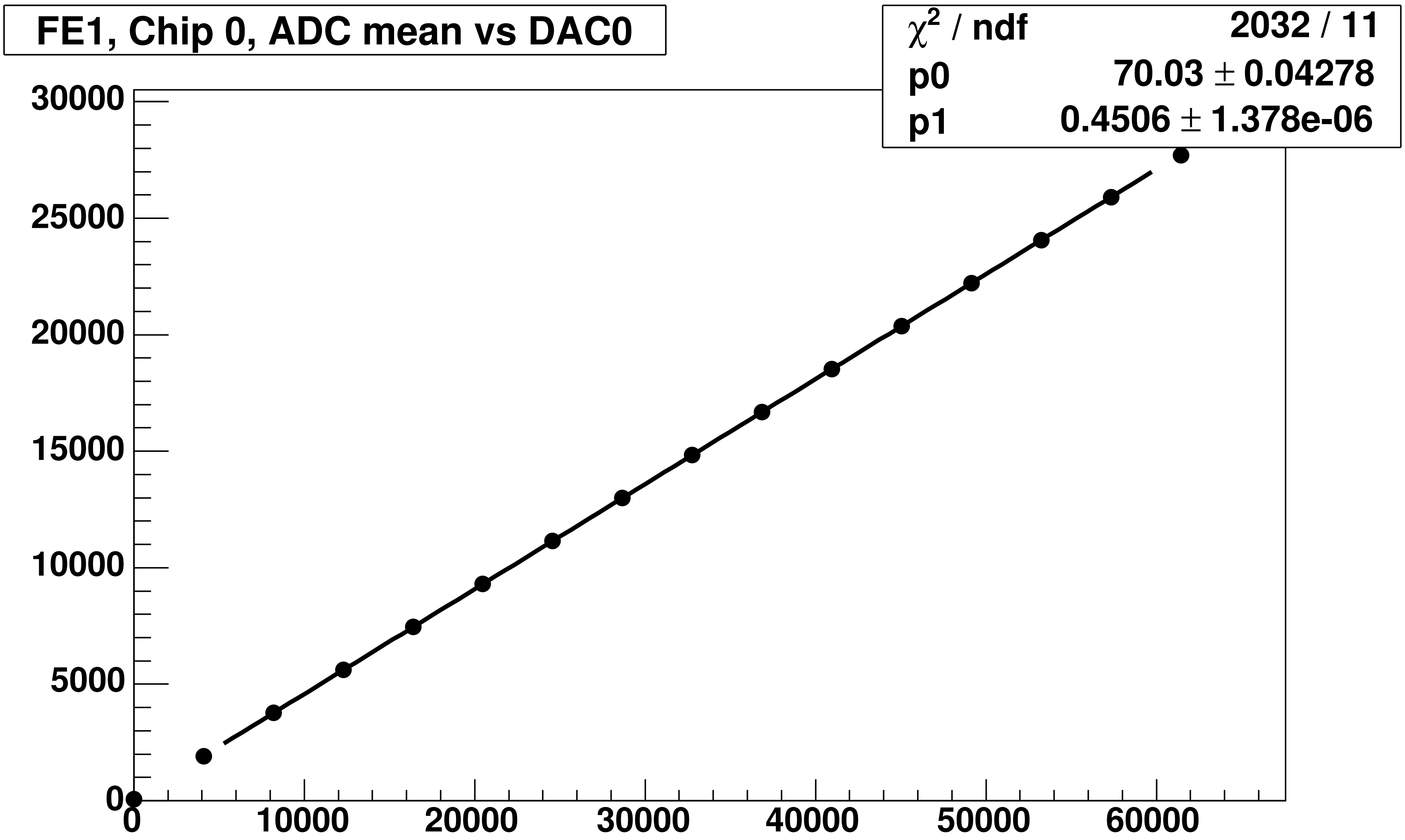

FE0, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE0, Chip 11, ADC mean vs DAC1
χ^2 / ndf 2013 / 11
p0 13.37 ± 0.04152
p1 0.4525 ± 1.336e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

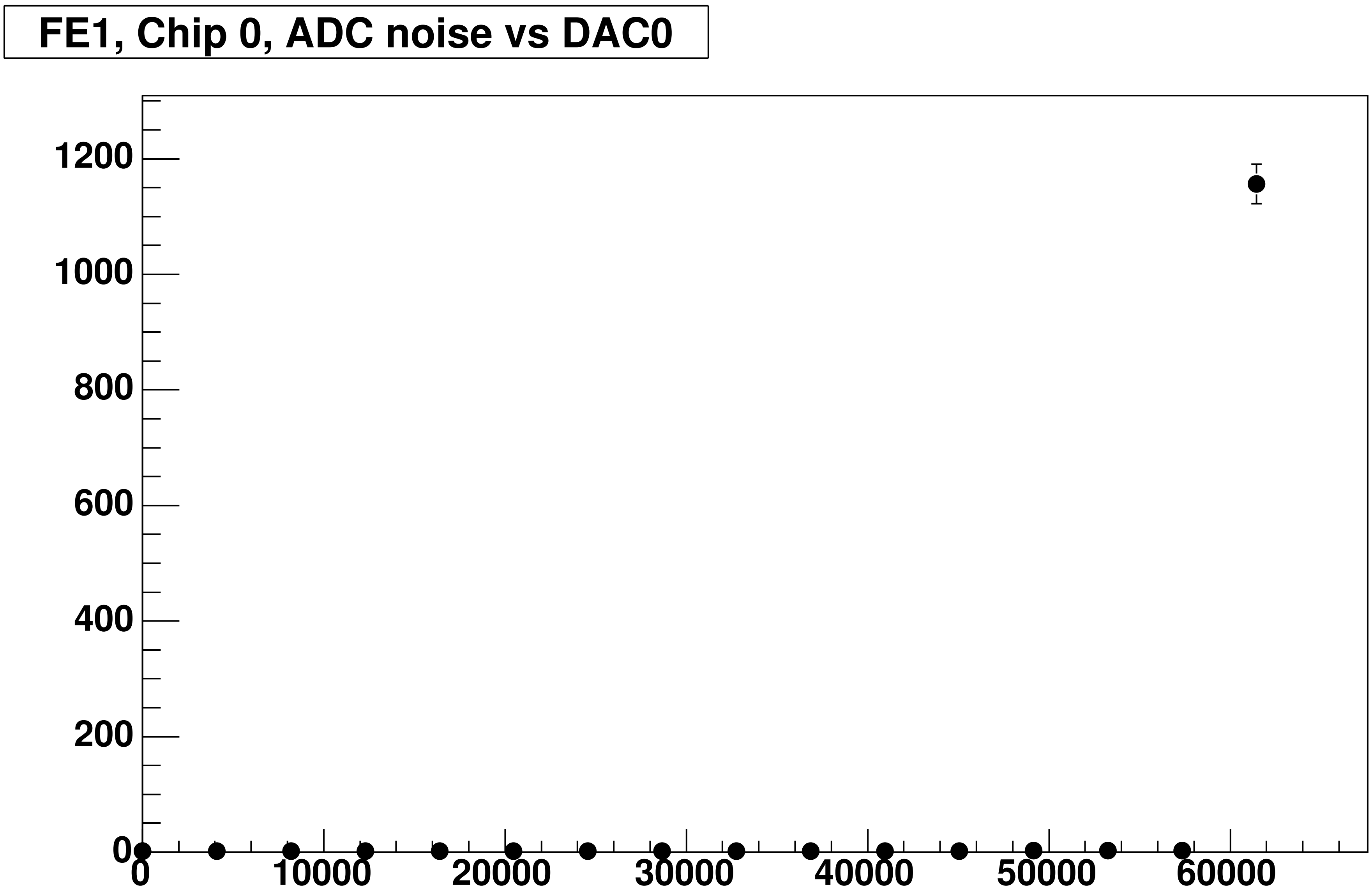

FE0, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

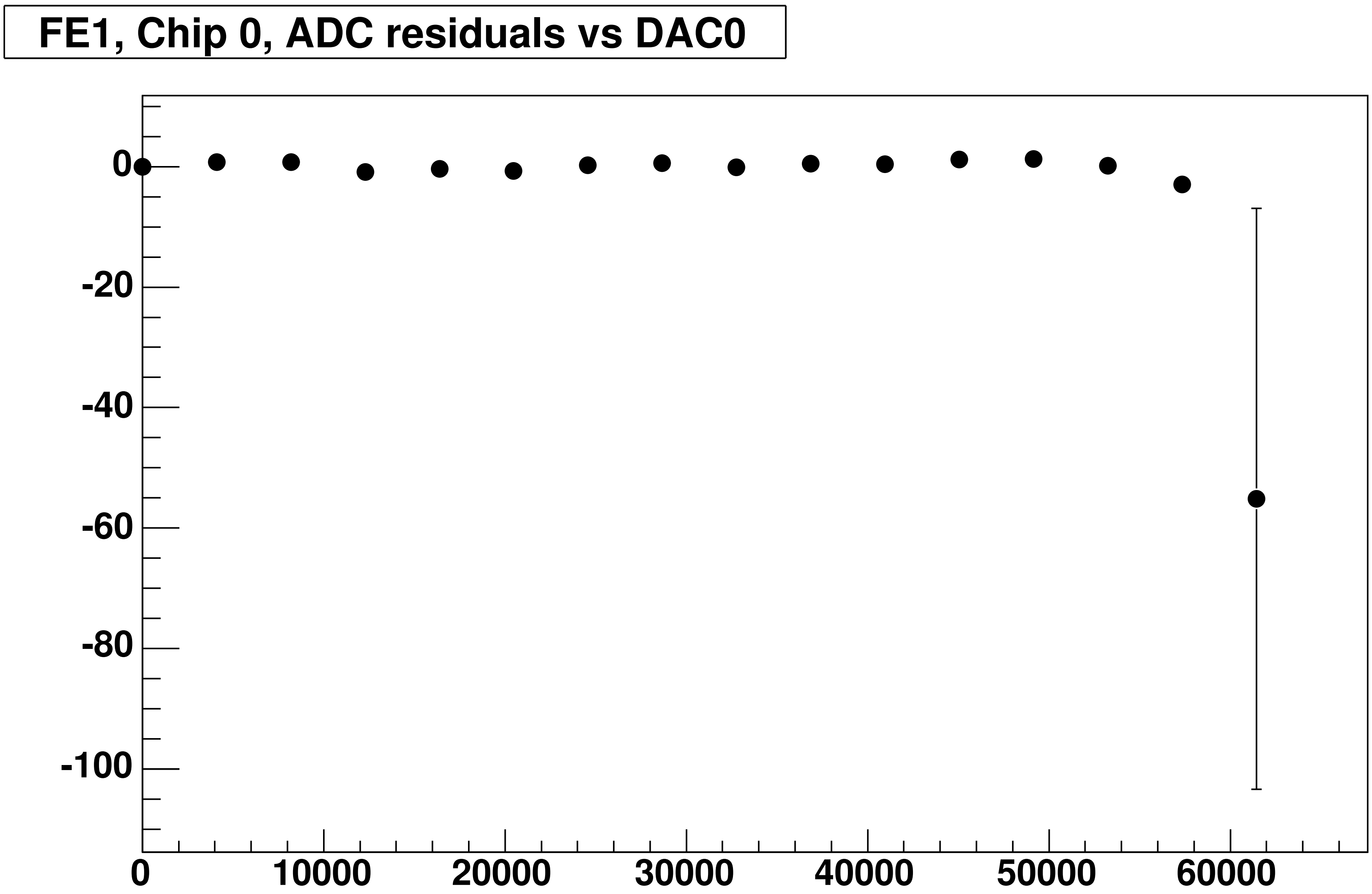
FE0, Chip 11, ADC residuals vs DAC1

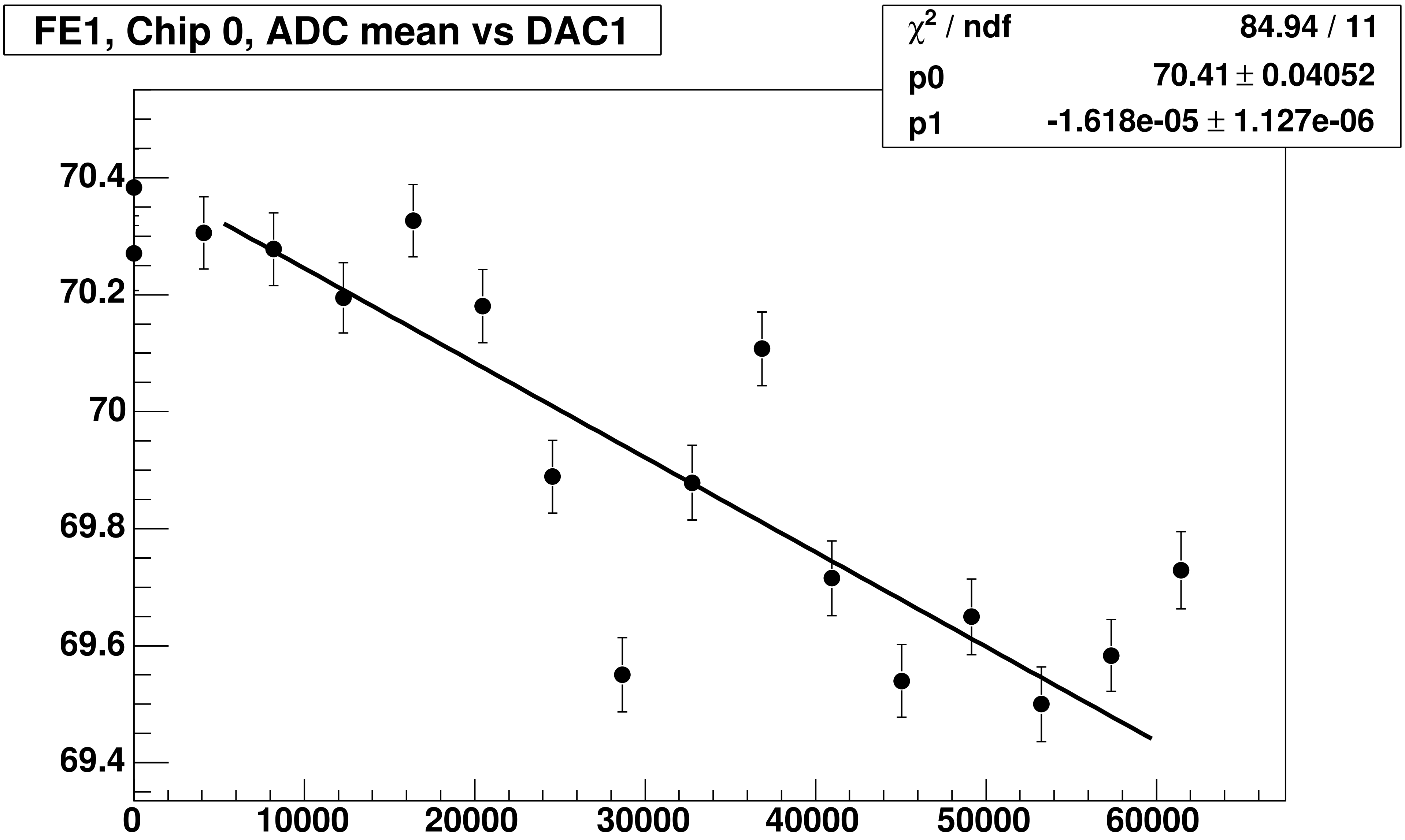


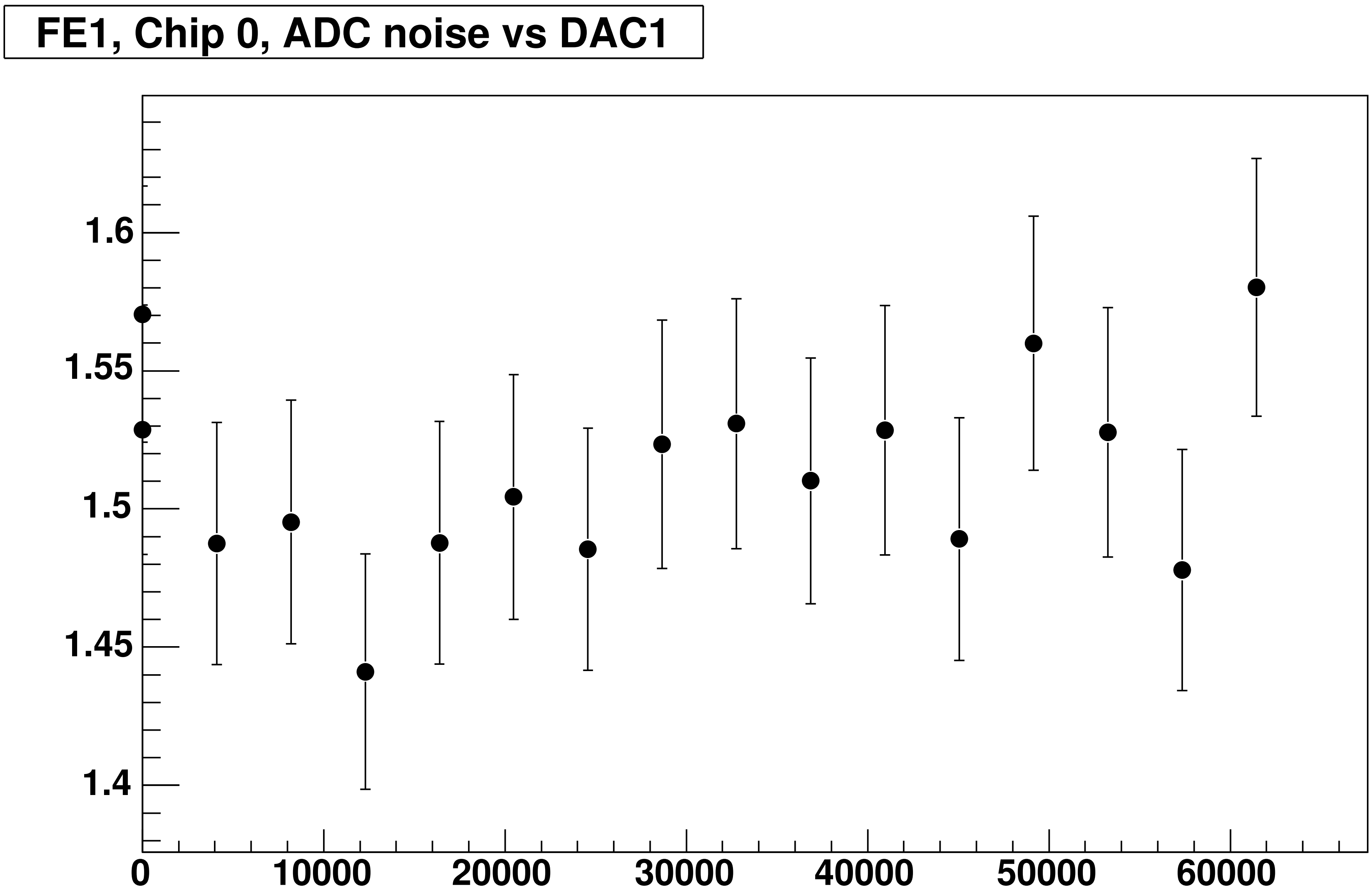


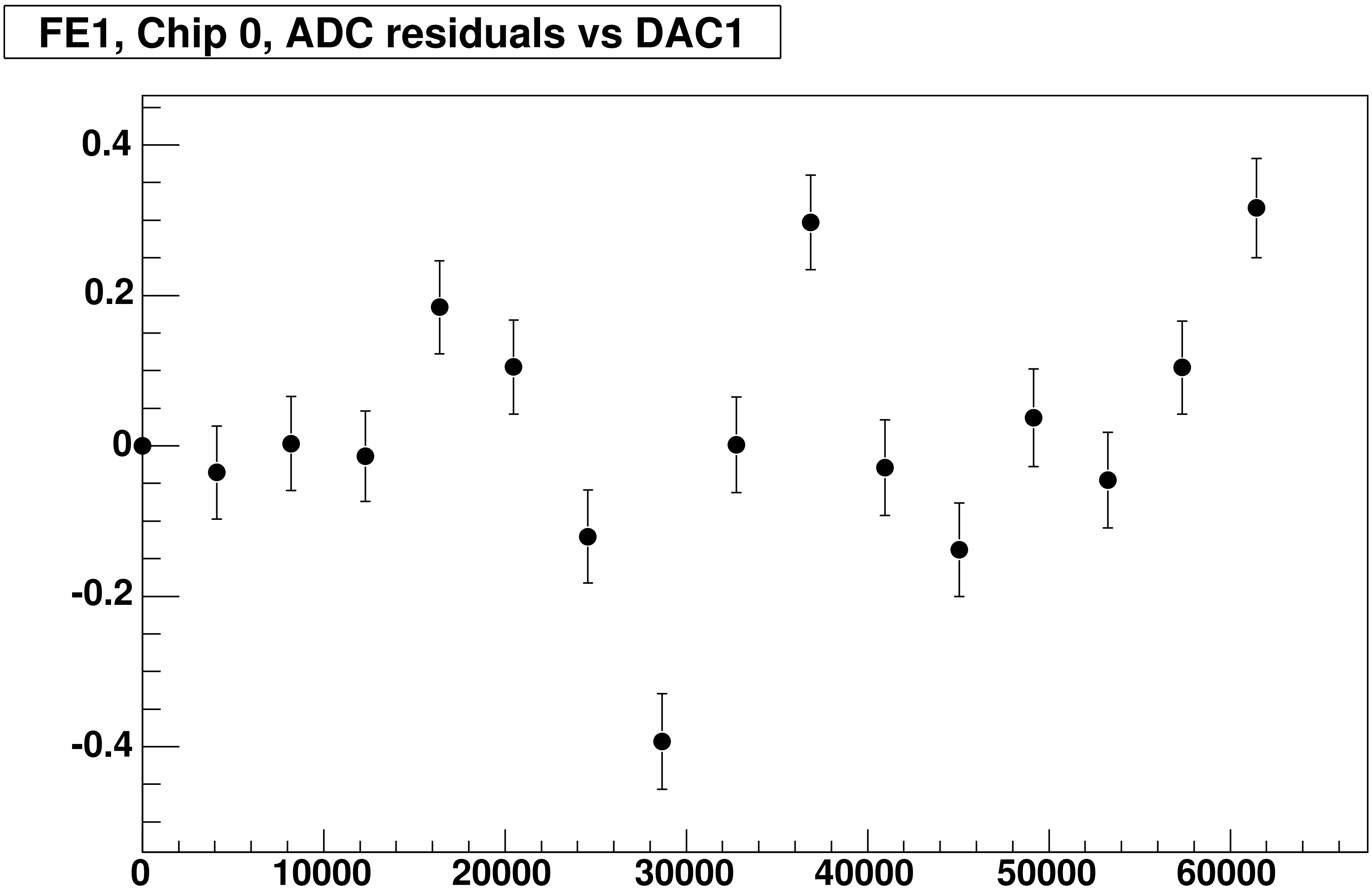
FE1, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2032 / 11
p0 70.03 ± 0.04278
p1 0.4506 ± 1.378e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

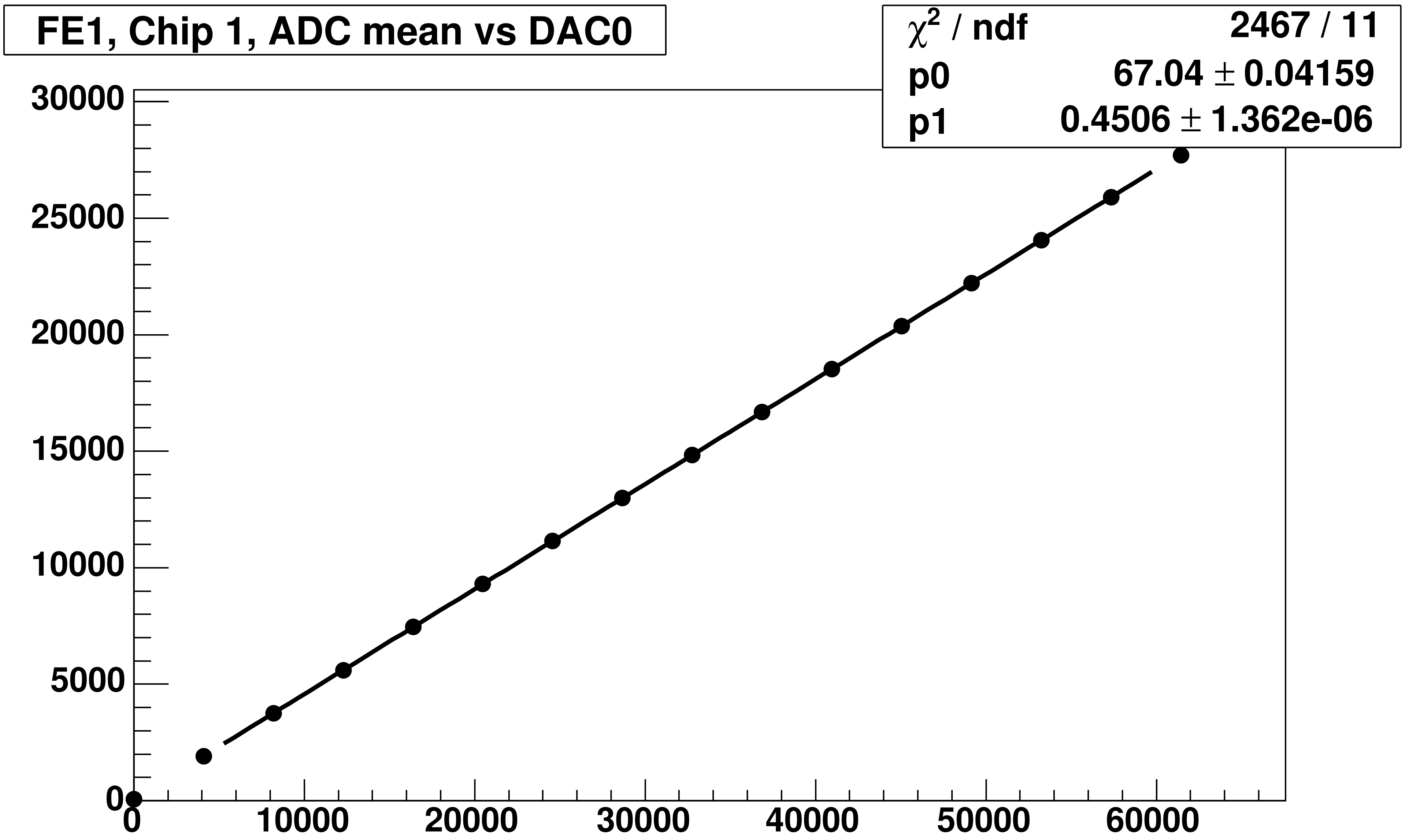

FE1, Chip 0, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

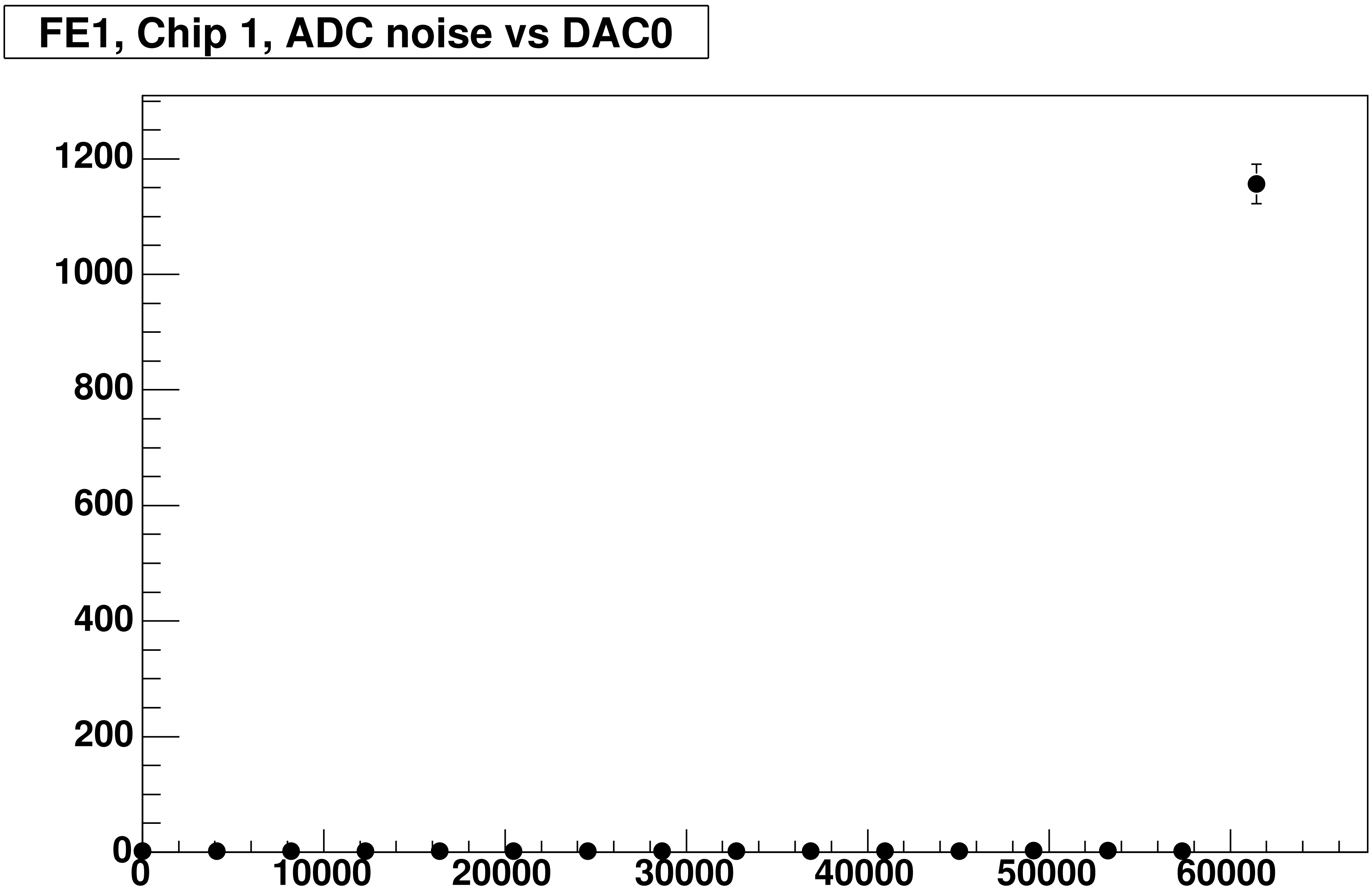

FE1, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

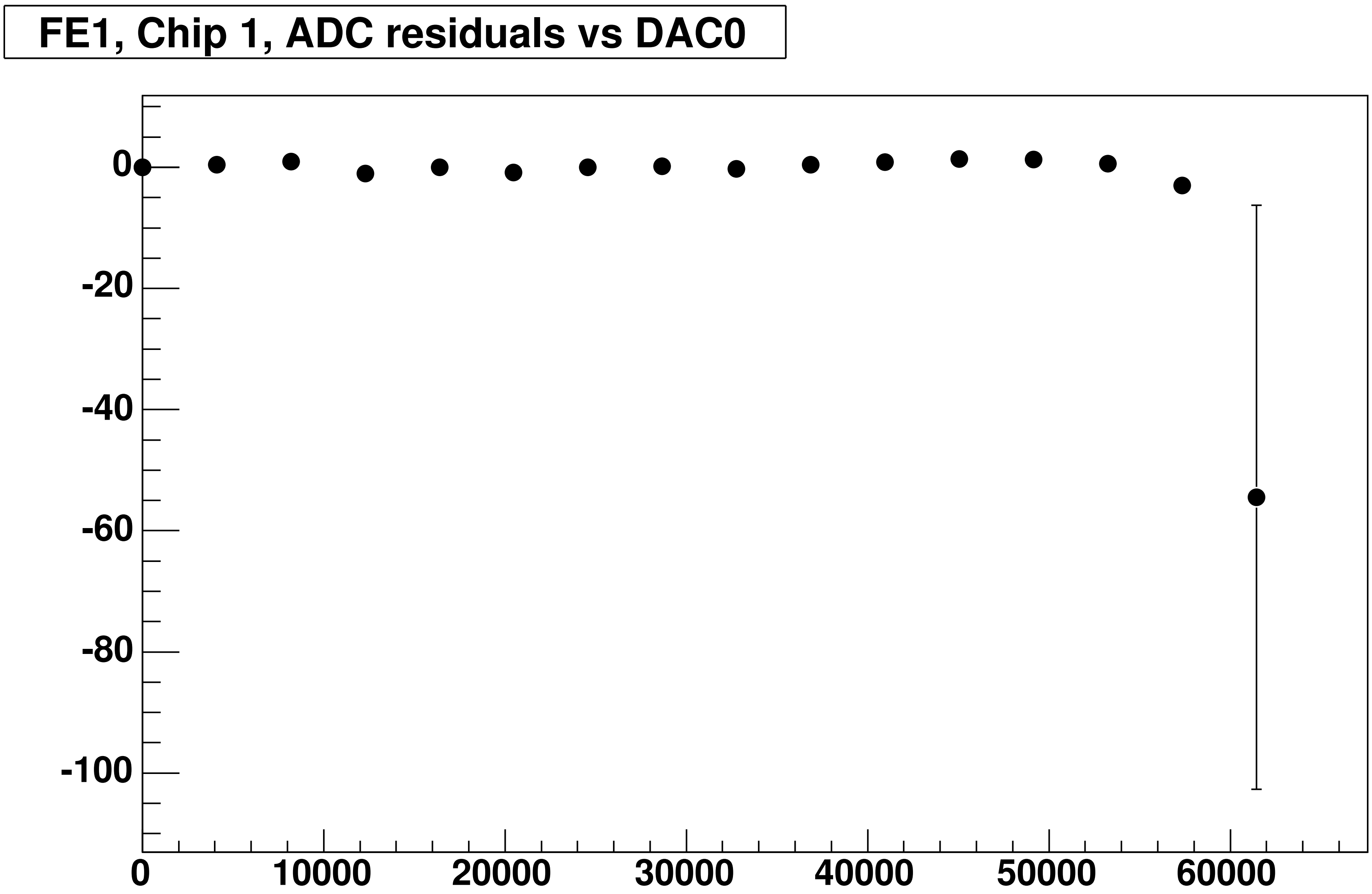

FE1, Chip 0, ADC mean vs DAC1
χ^2 / ndf 84.94 / 11
p0 70.41 ± 0.04052
p1 -1.618e-05 ± 1.127e-06
70.4
70.2
70
69.8
69.6
69.4
0
10000
20000
30000
40000
50000
60000

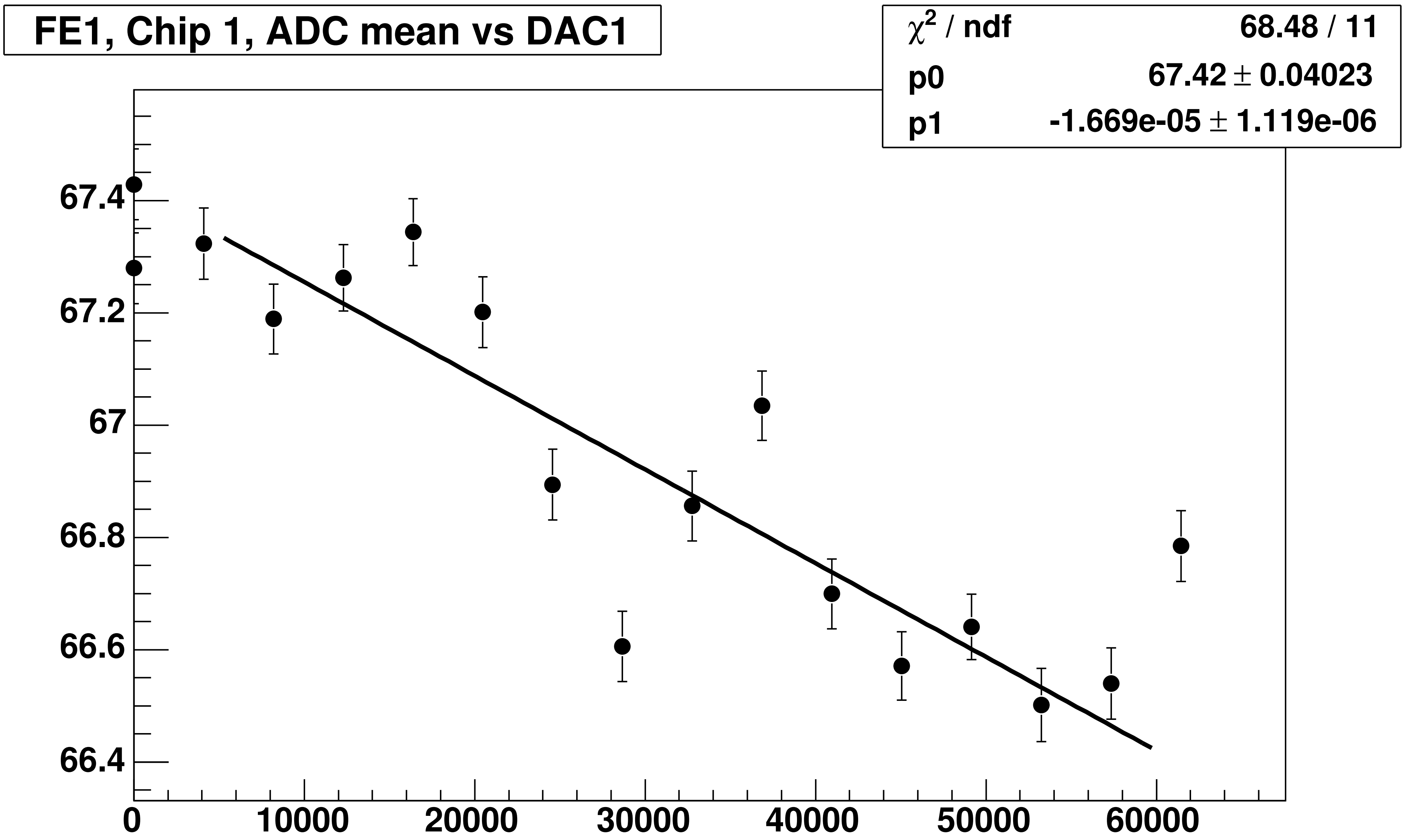

FE1, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


FE1, Chip 0, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

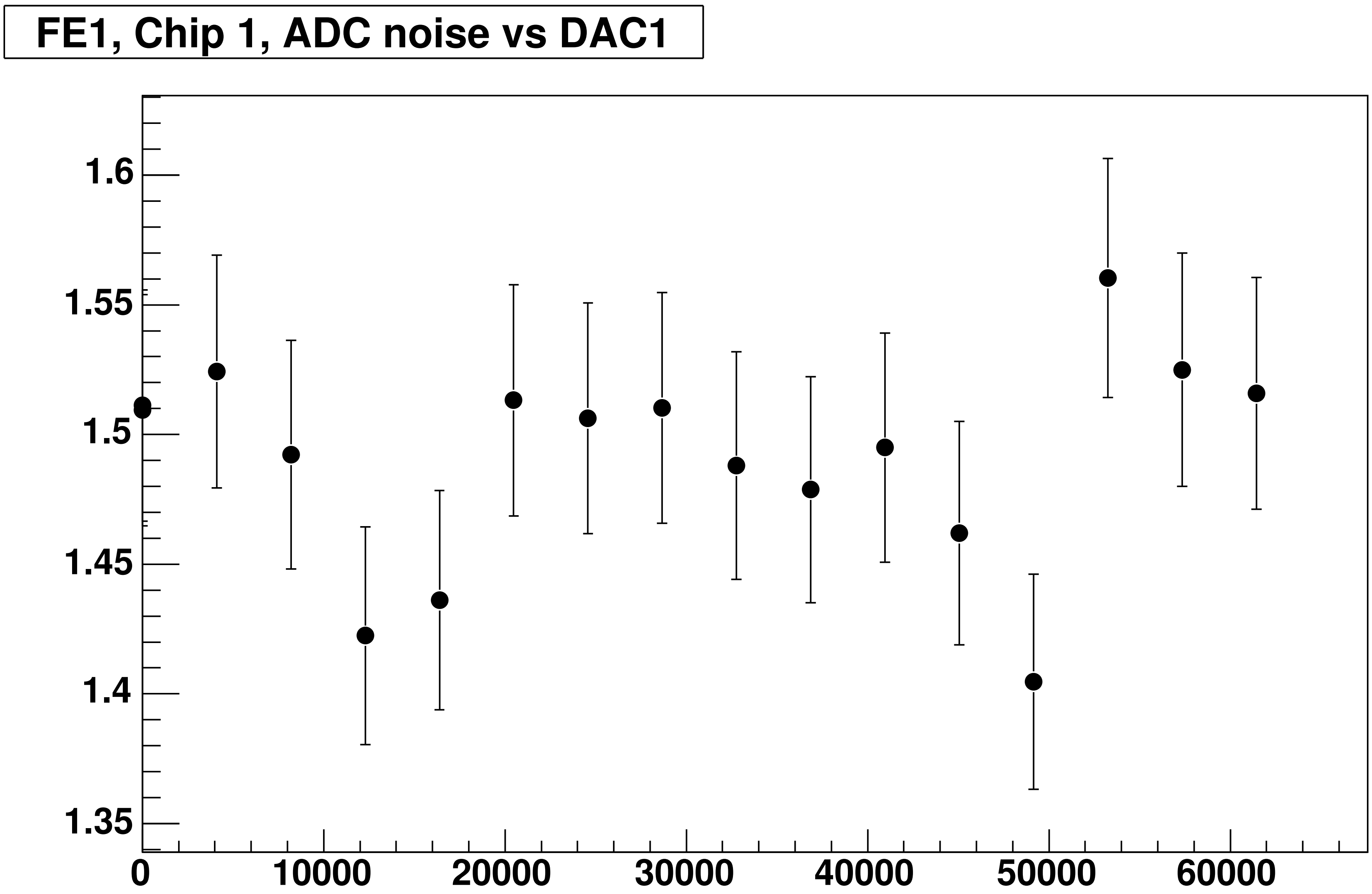

FE1, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2467 / 11
p0 67.04 ± 0.04159
p1 0.4506 ± 1.362e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

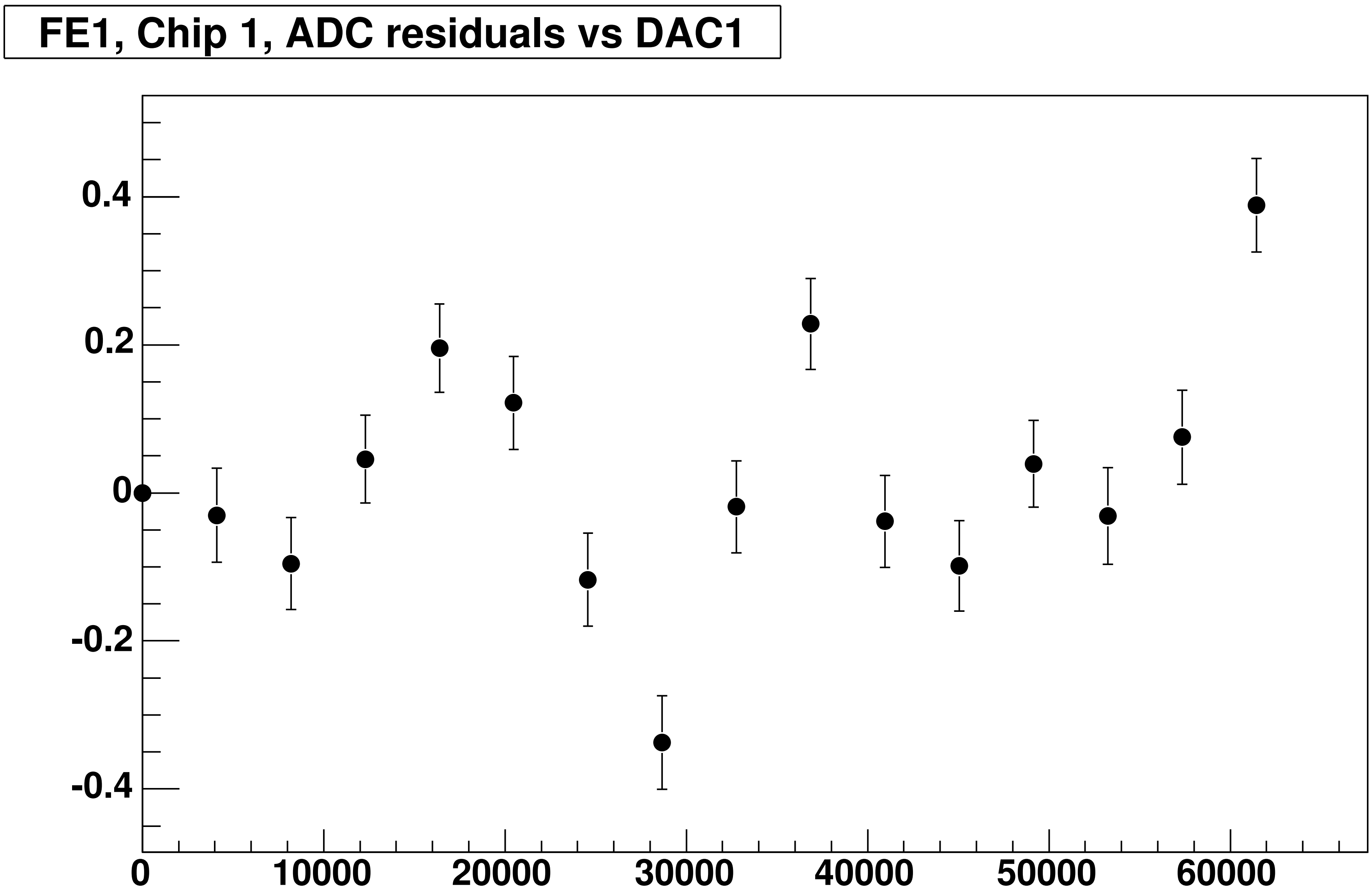

FE1, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

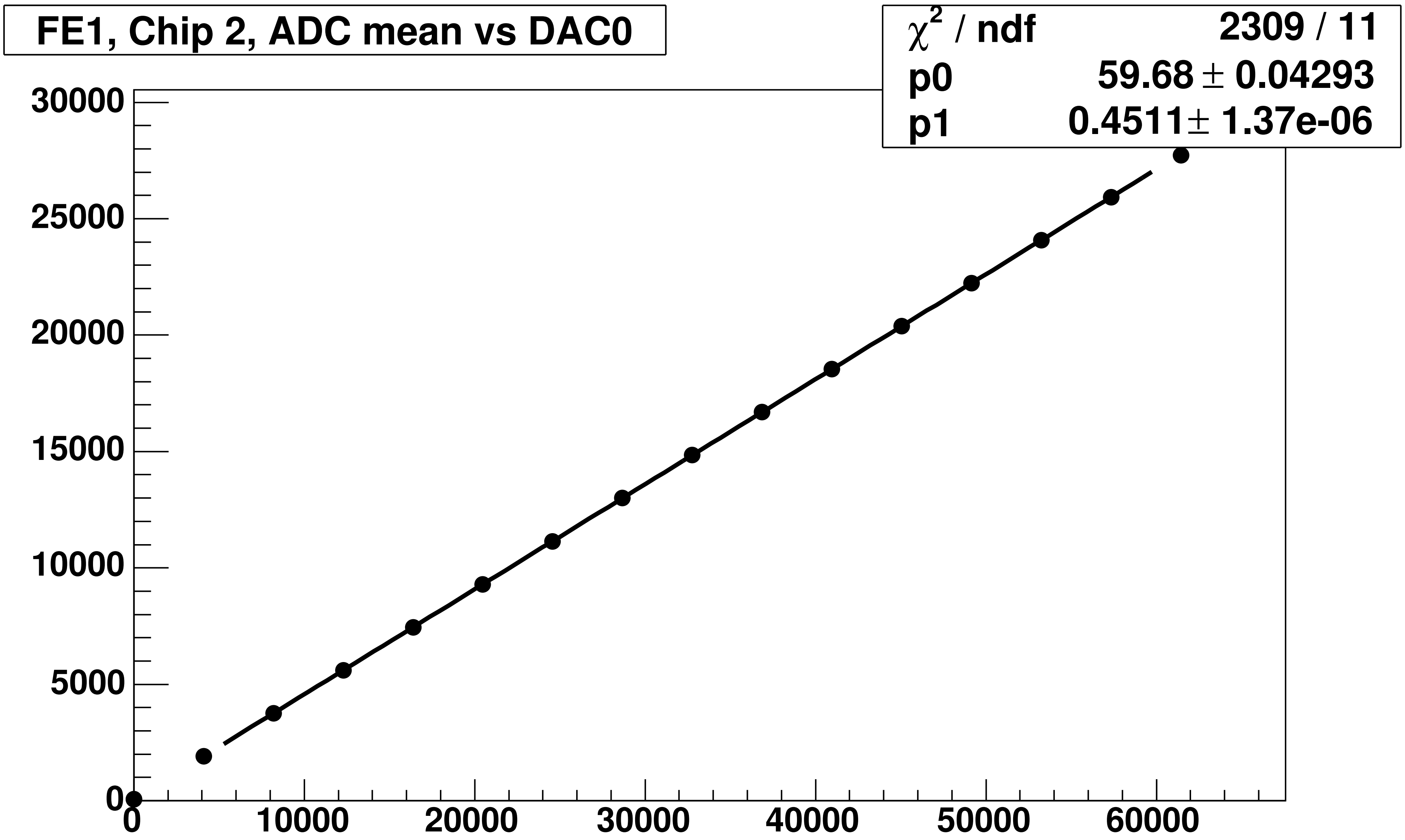

FE1, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



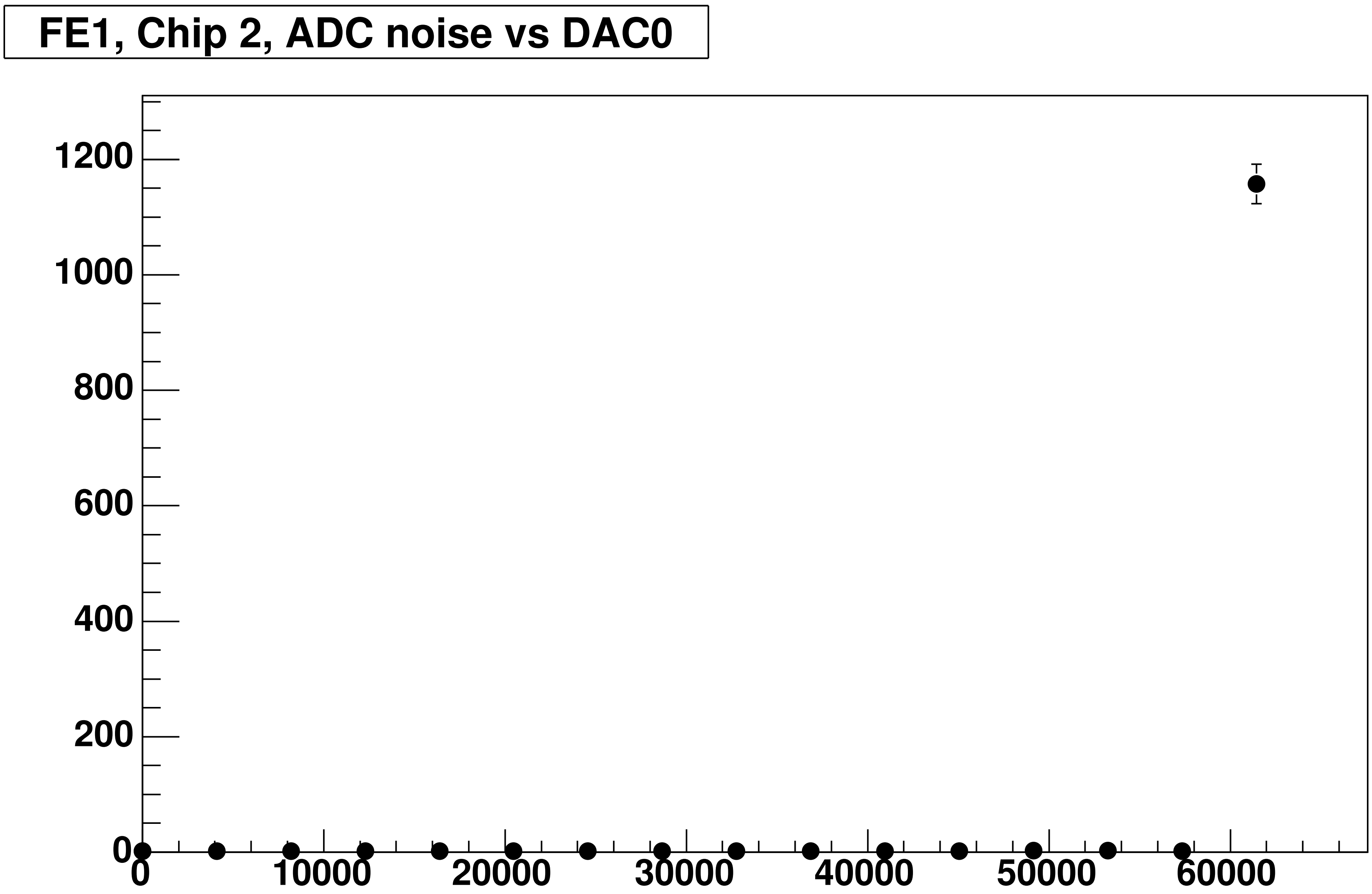
FE1, Chip 1, ADC mean vs DAC1
χ^2 / ndf 68.48 / 11
p0 67.42 ± 0.04023
p1 -1.669e-05 ± 1.119e-06
67.4
67.2
67
66.8
66.6
66.4
0
10000
20000
30000
40000
50000
60000

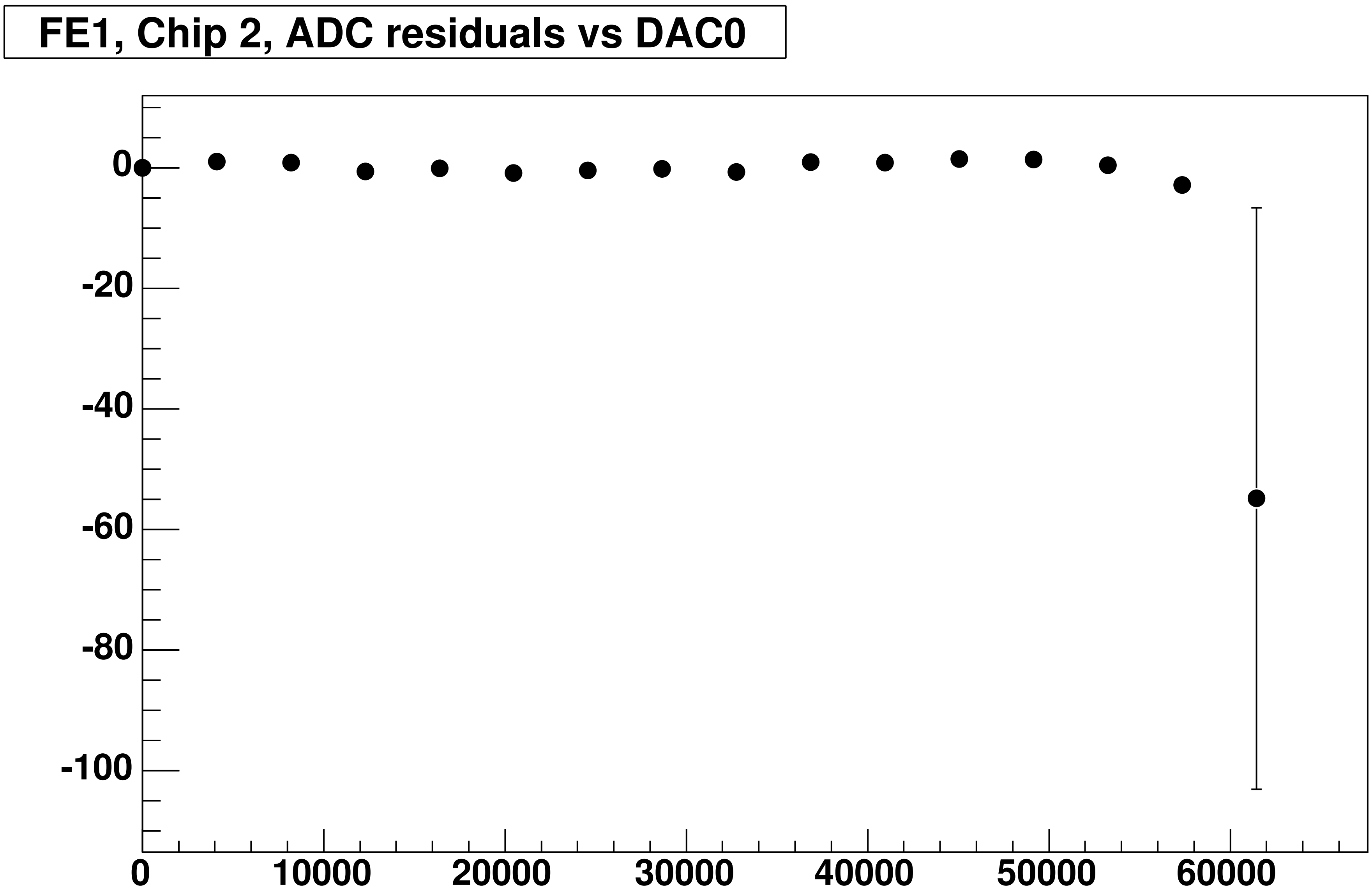

FE1, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

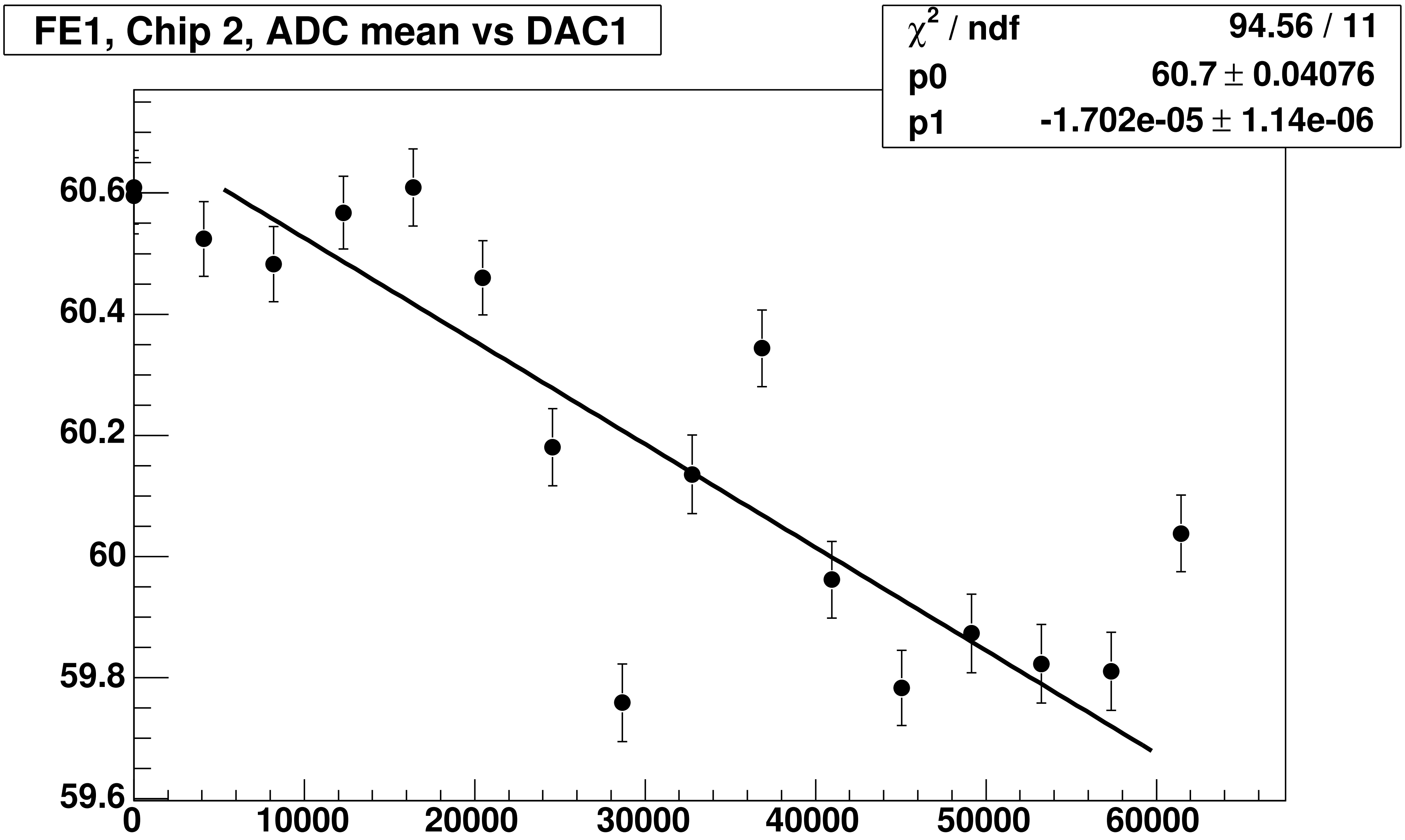

FE1, Chip 1, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

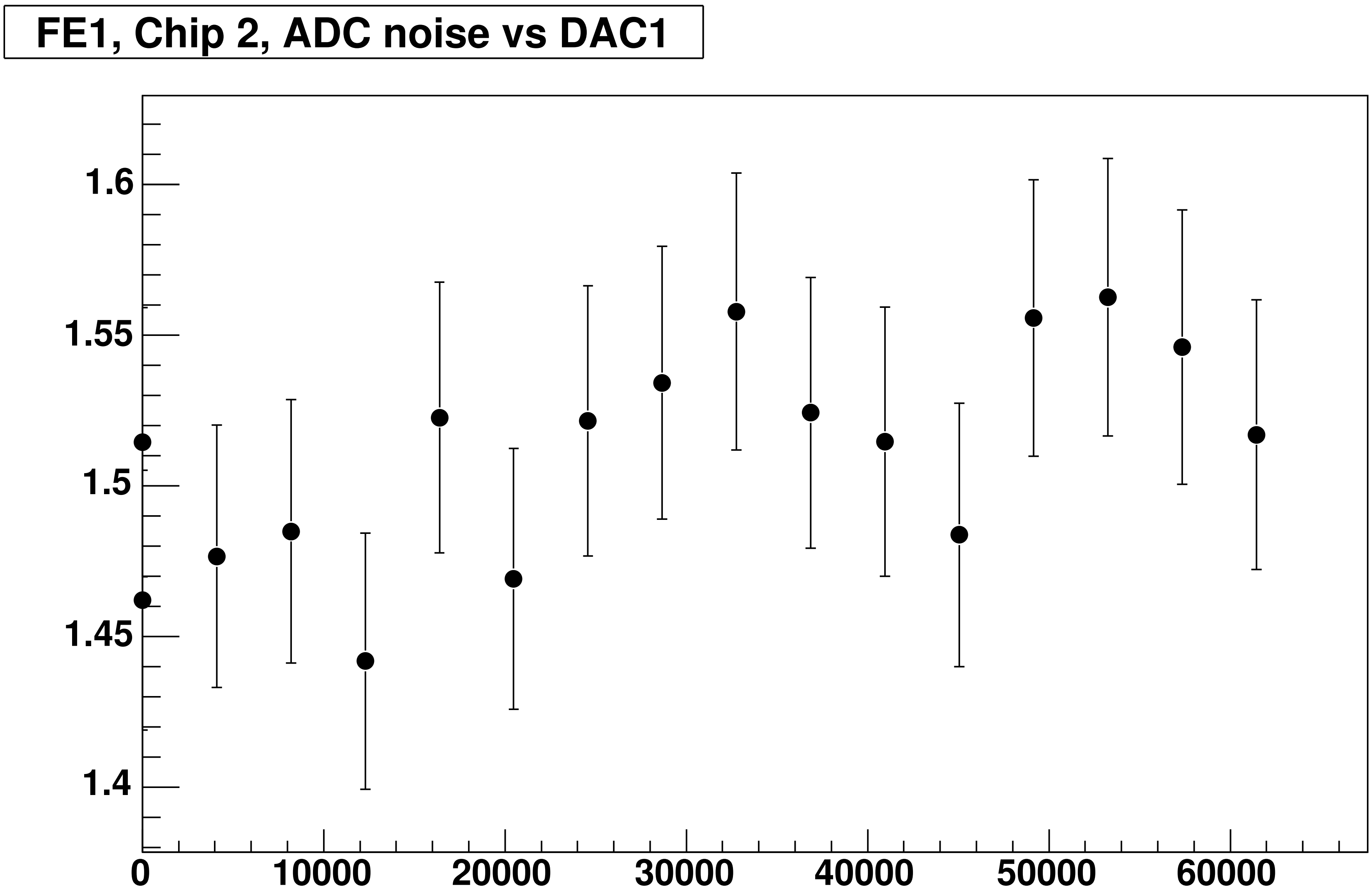


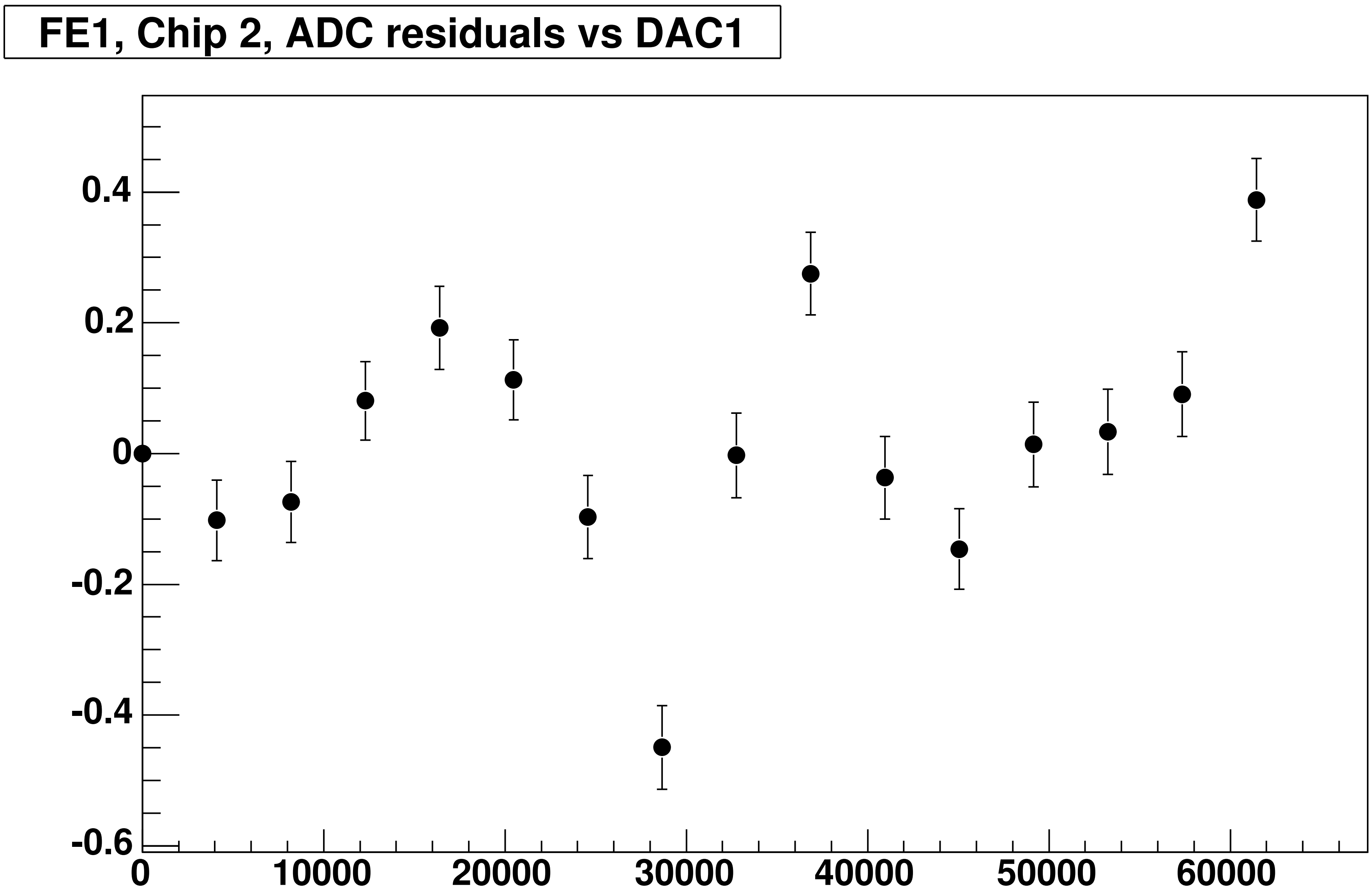
FE1, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2309 / 11
p0 59.68 ± 0.04293
p1 0.4511 ± 1.37e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE1, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

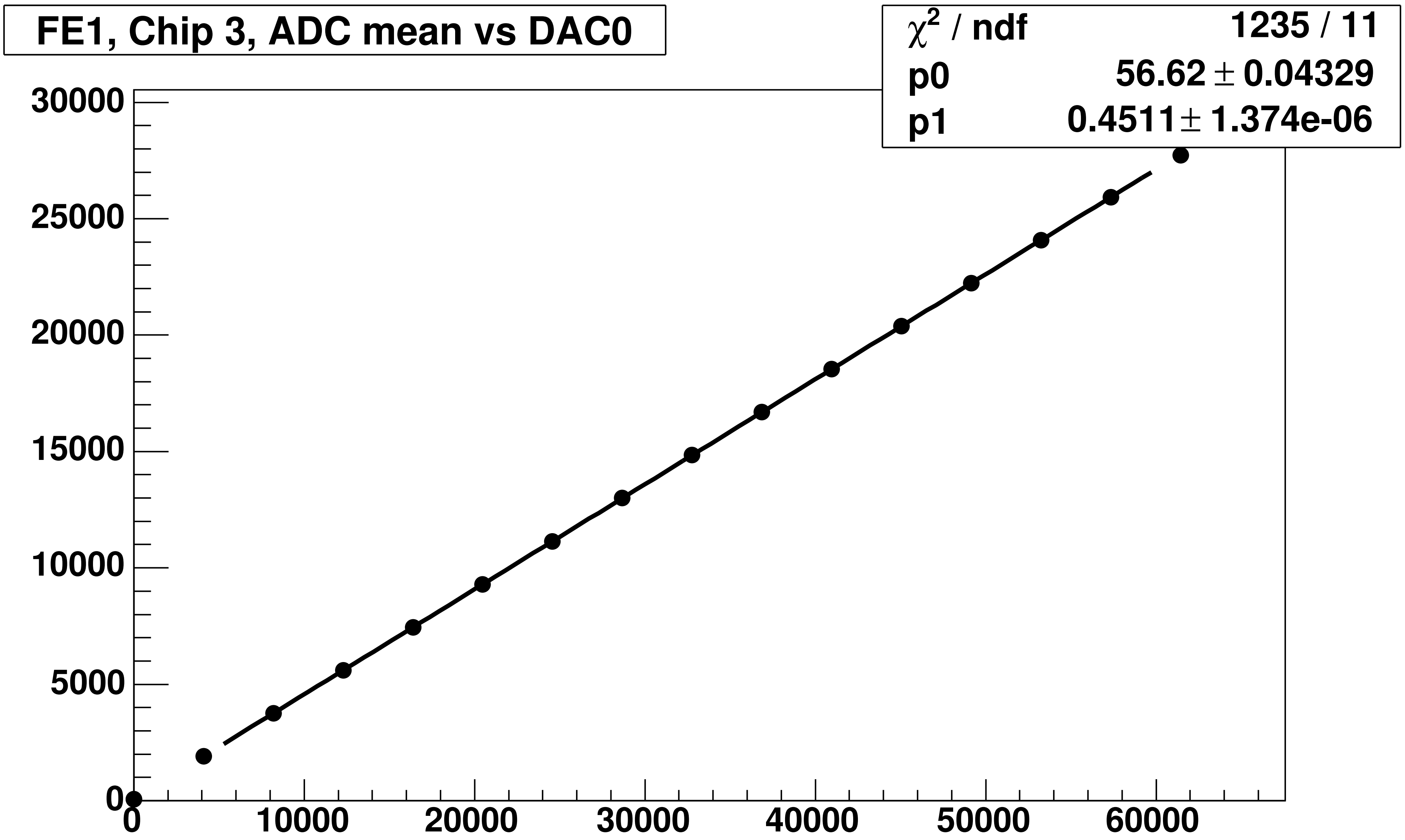

FE1, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

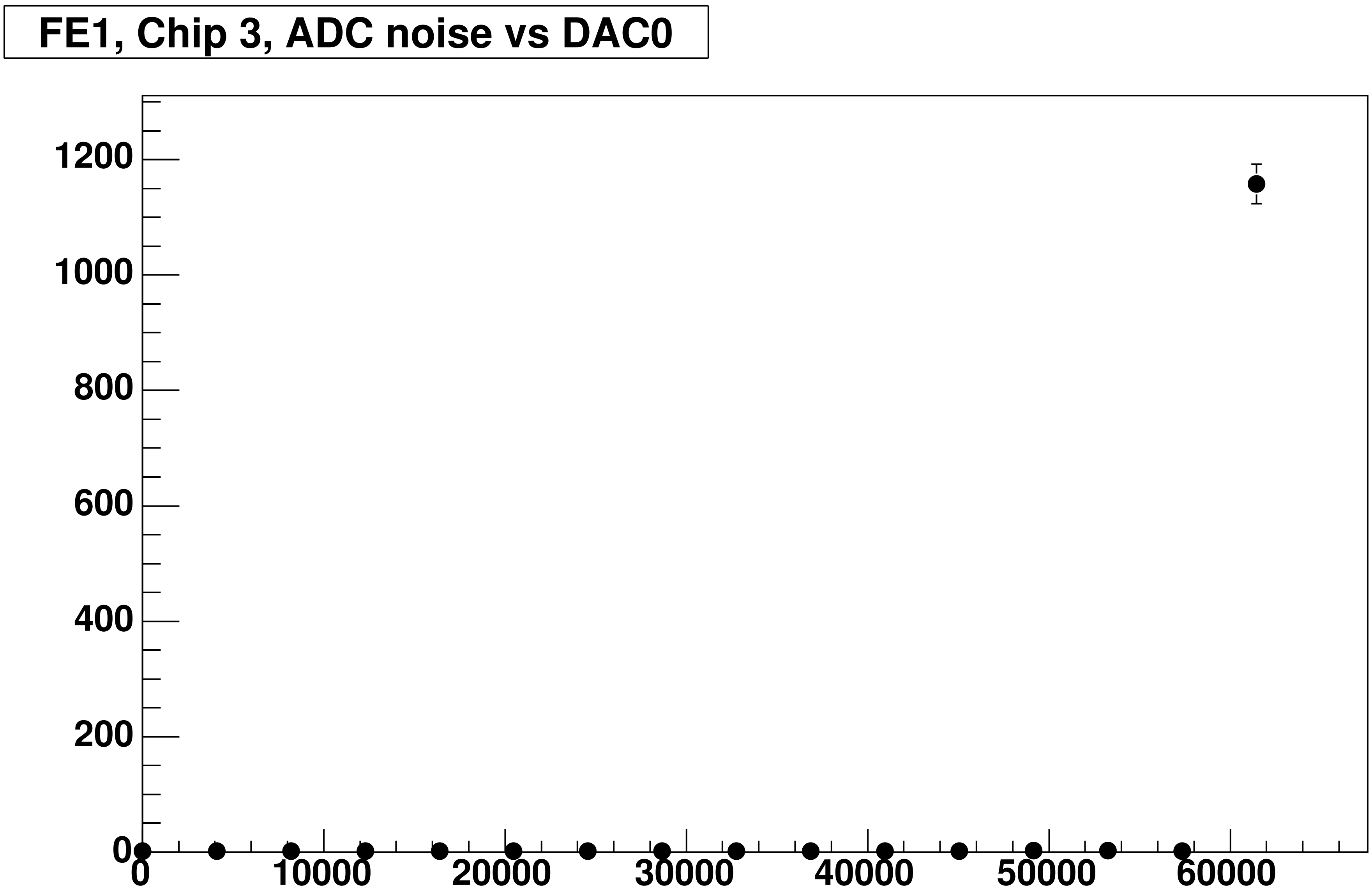

FE1, Chip 2, ADC mean vs DAC1
χ² / ndf 94.56 / 11
p0 60.7 ± 0.04076
p1 -1.702e-05 ± 1.14e-06
60.6
60.4
60.2
60
59.8
59.6
0
10000
20000
30000
40000
50000
60000

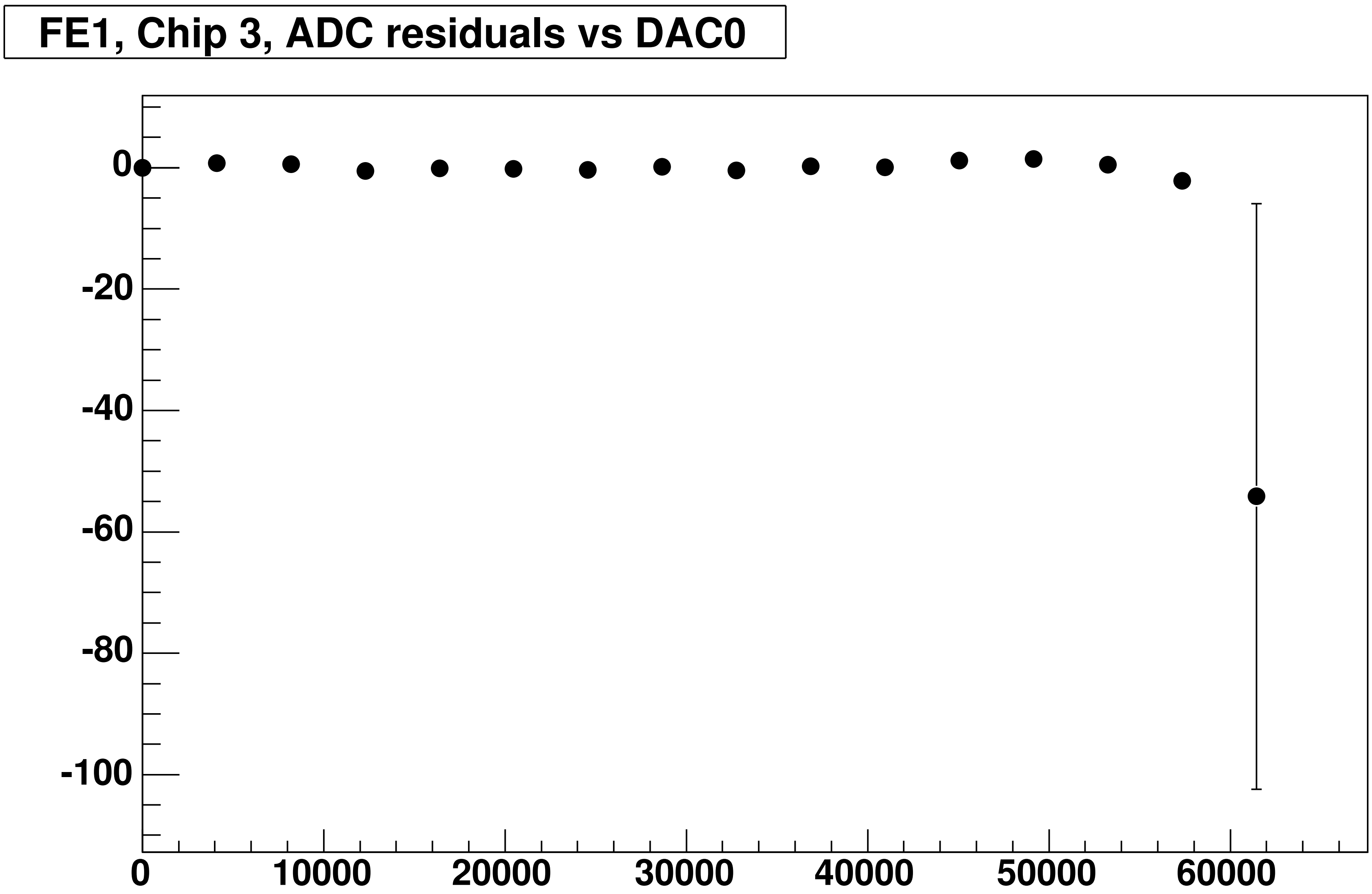

FE1, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000



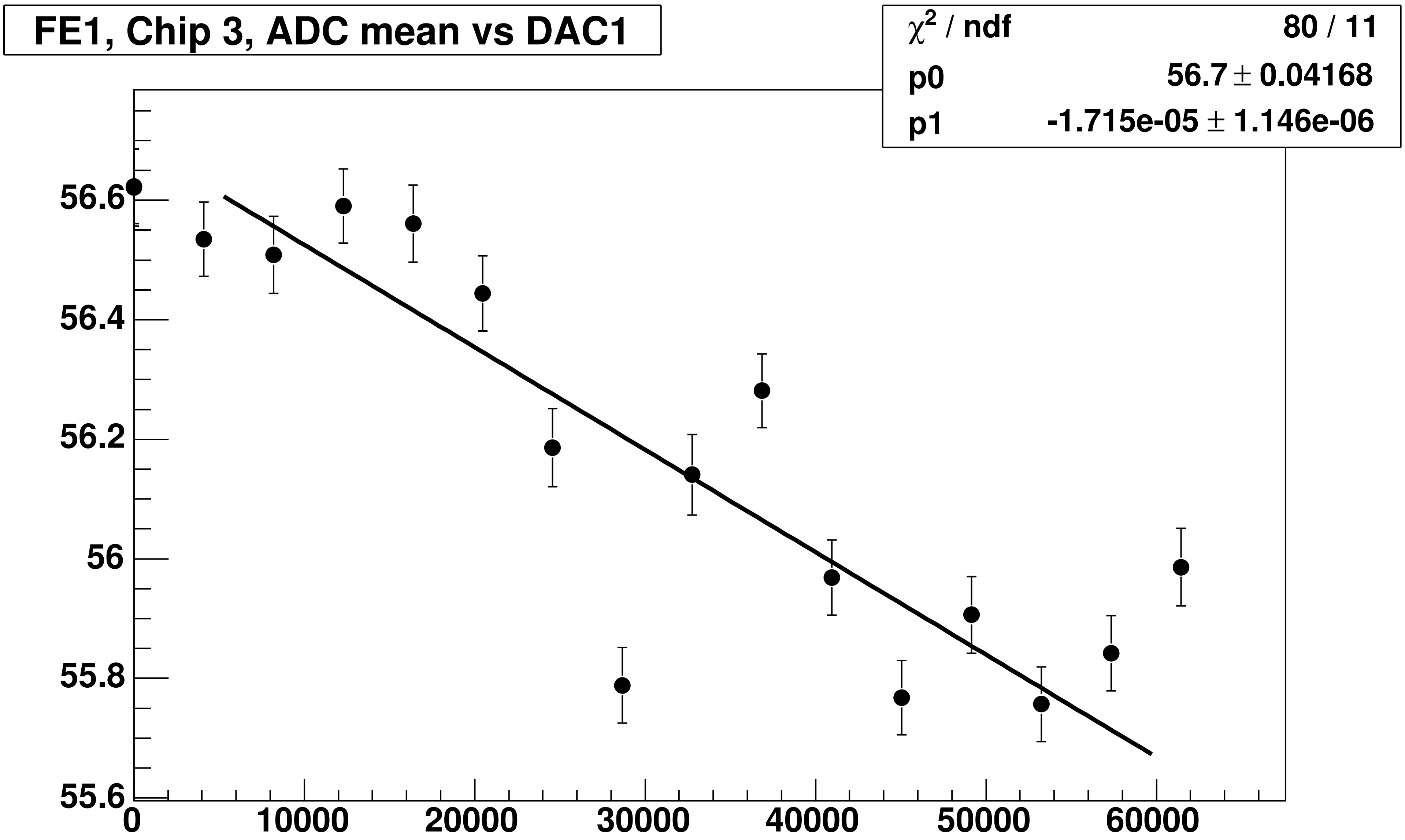
FE1, Chip 2, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000


FE1, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1235 / 11
p0 56.62 ± 0.04329
p1 0.4511 ± 1.374e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

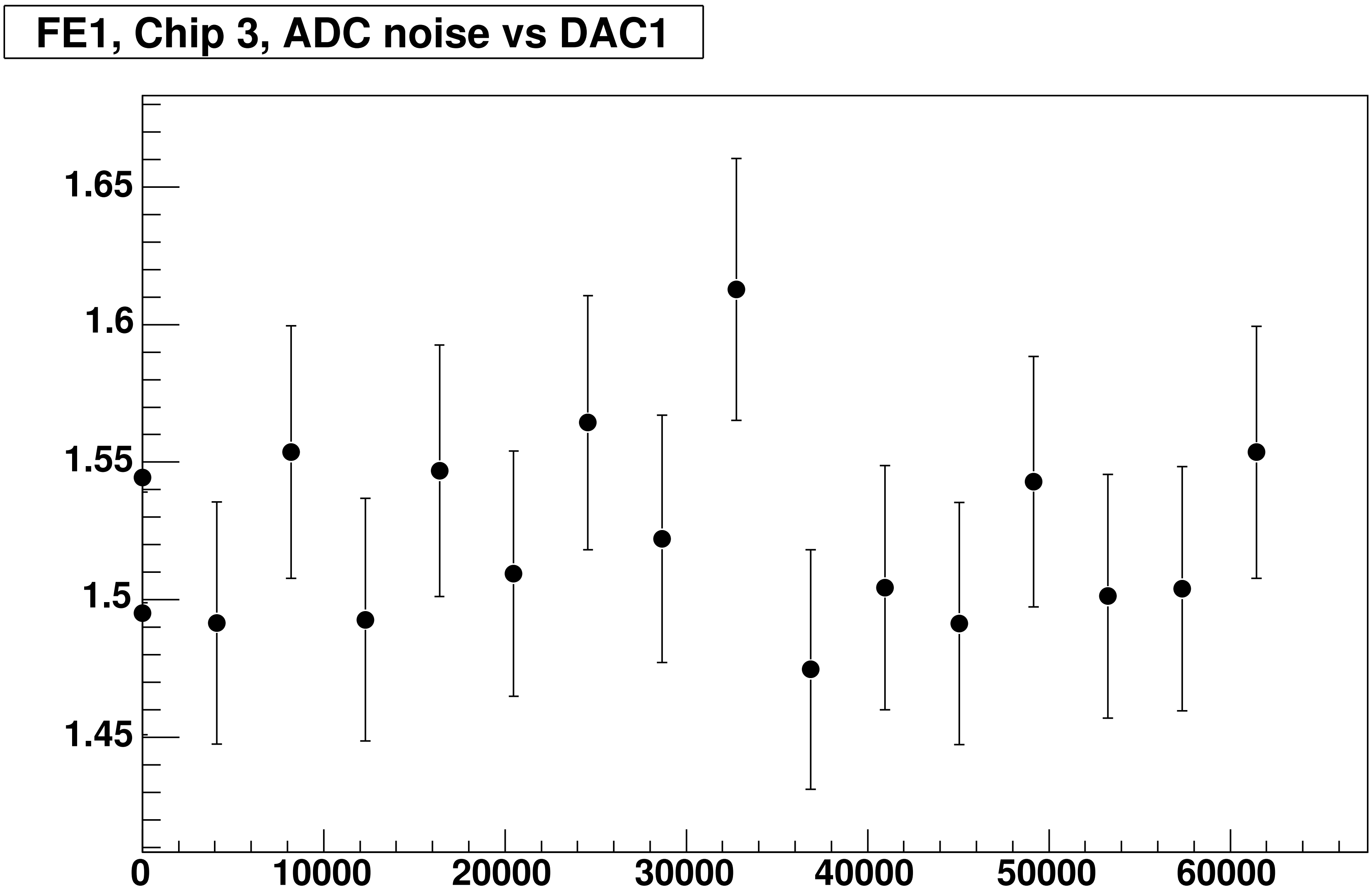

FE1, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

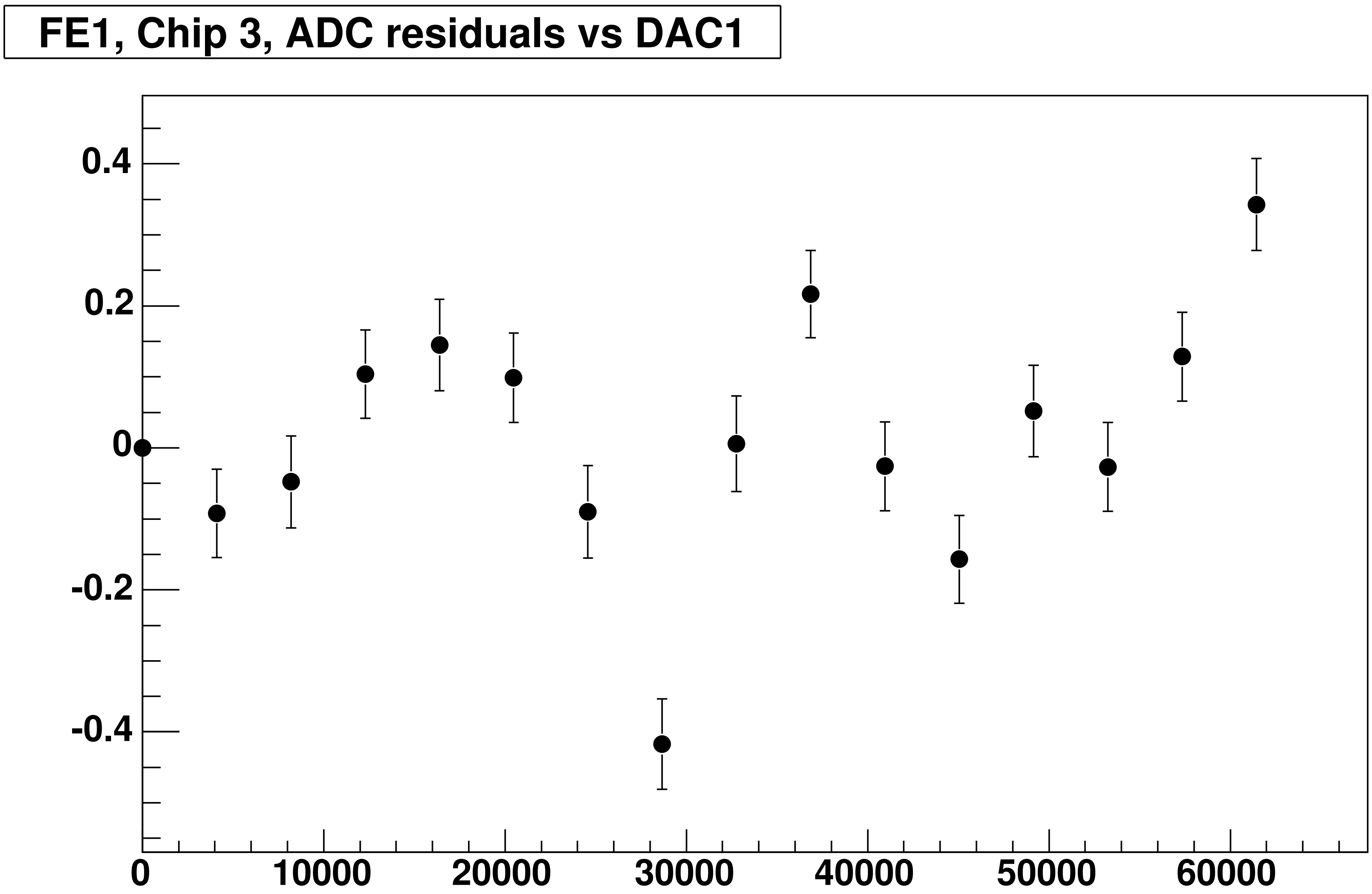


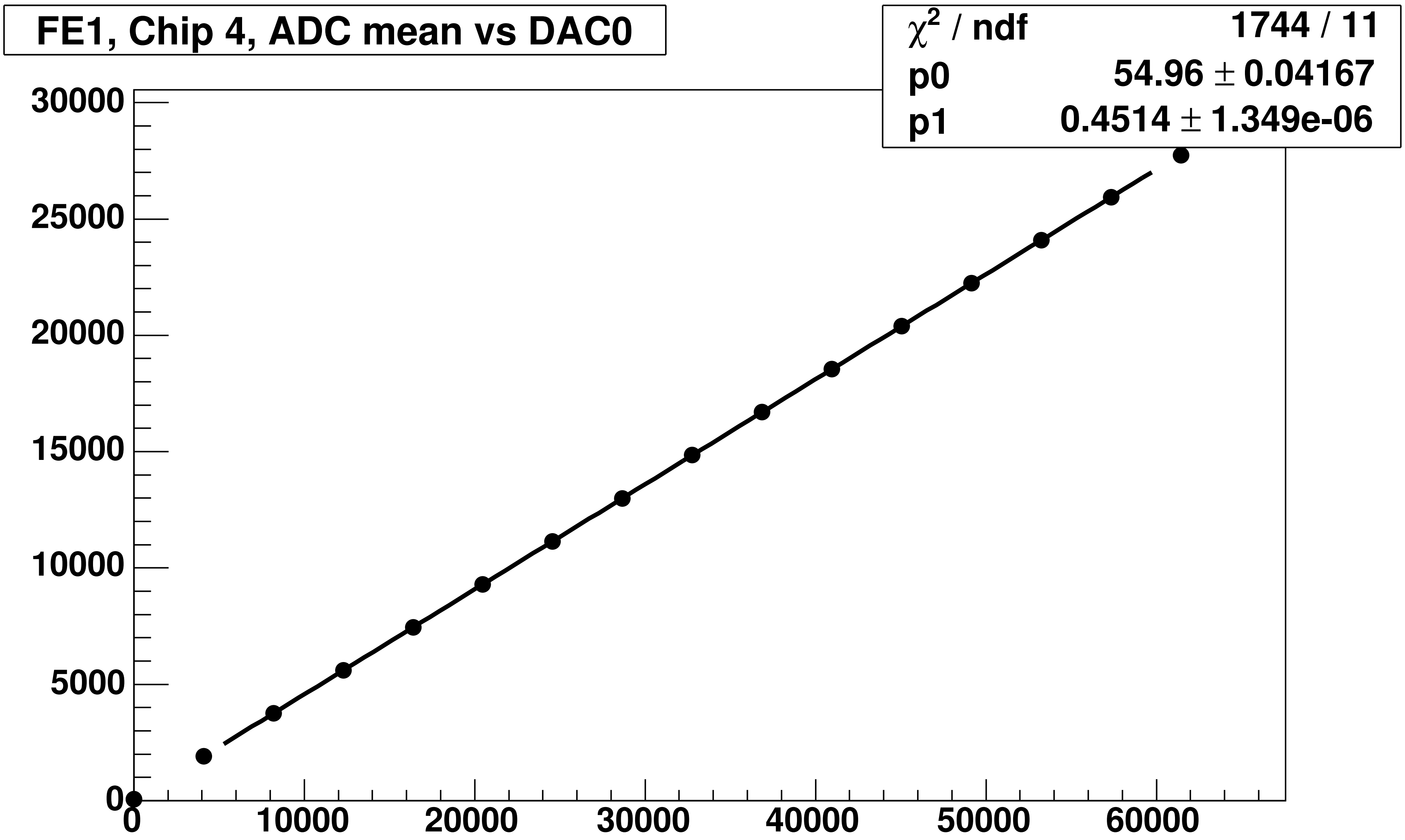
FE1, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

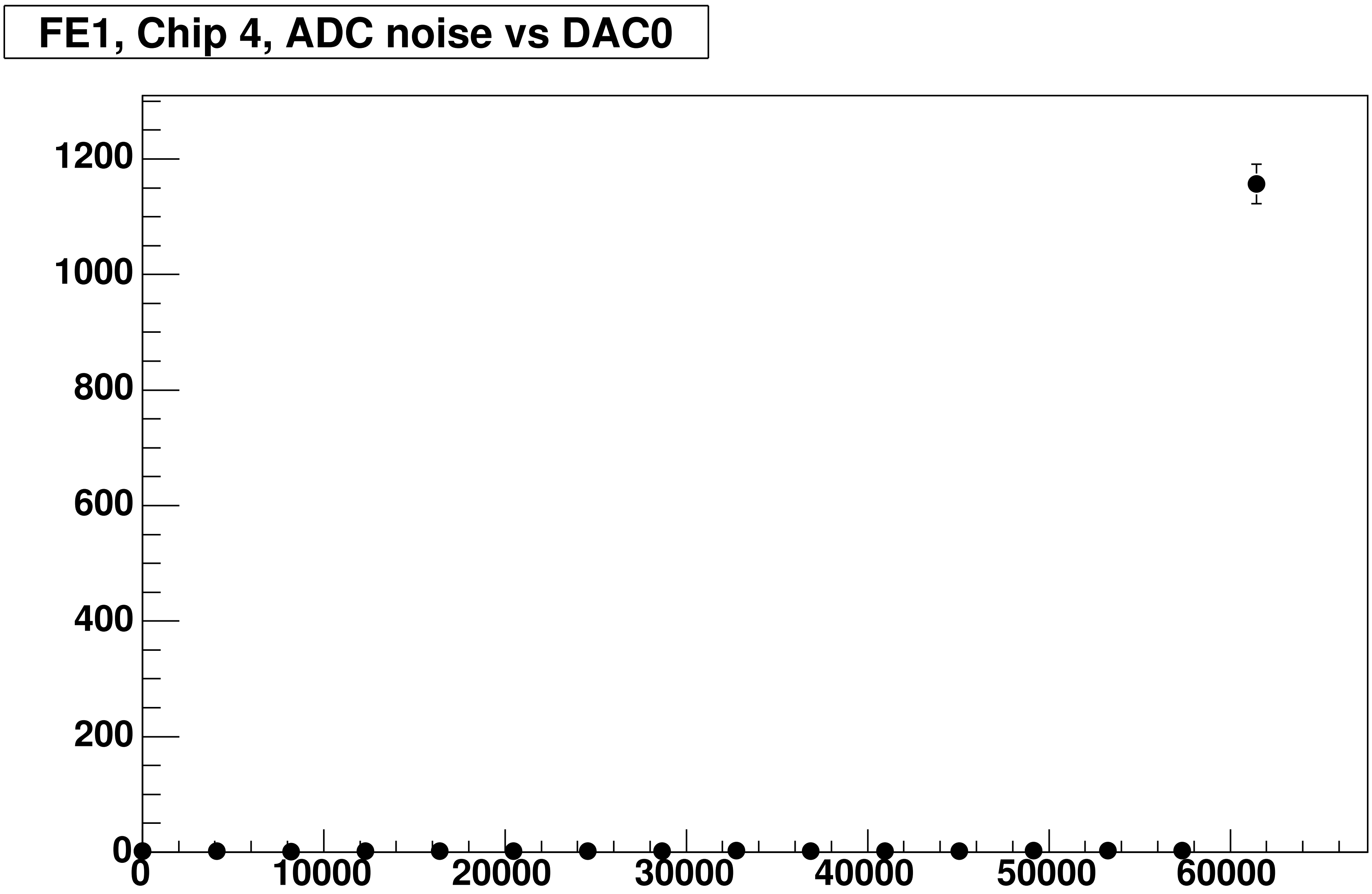


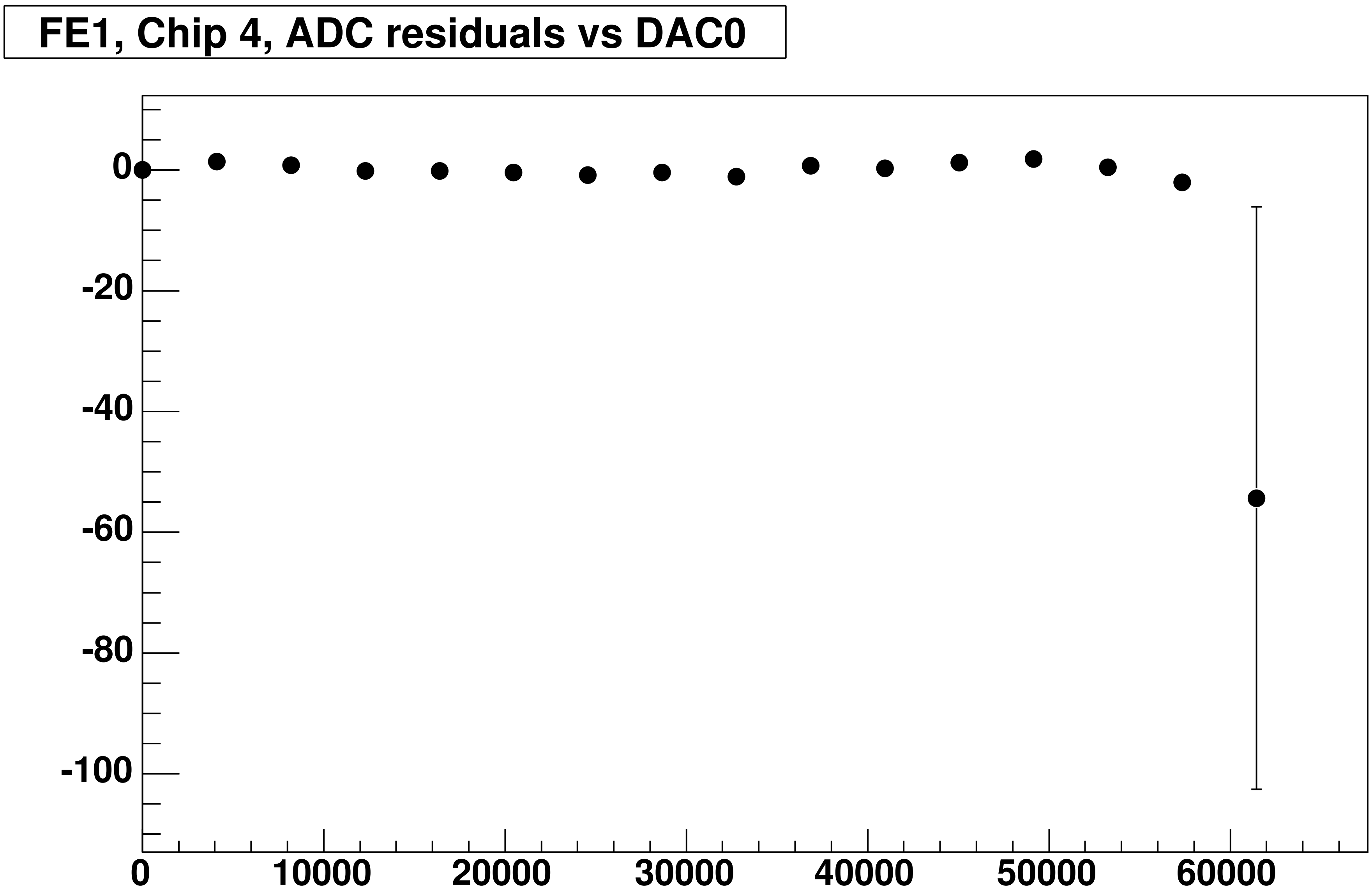
FE1, Chip 3, ADC mean vs DAC1
χ^2 / ndf 80 / 11
p0 56.7 ± 0.04168
p1 -1.715e-05 ± 1.146e-06
56.6
56.4
56.2
56
55.8
55.6
0
10000
20000
30000
40000
50000
60000


FE1, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

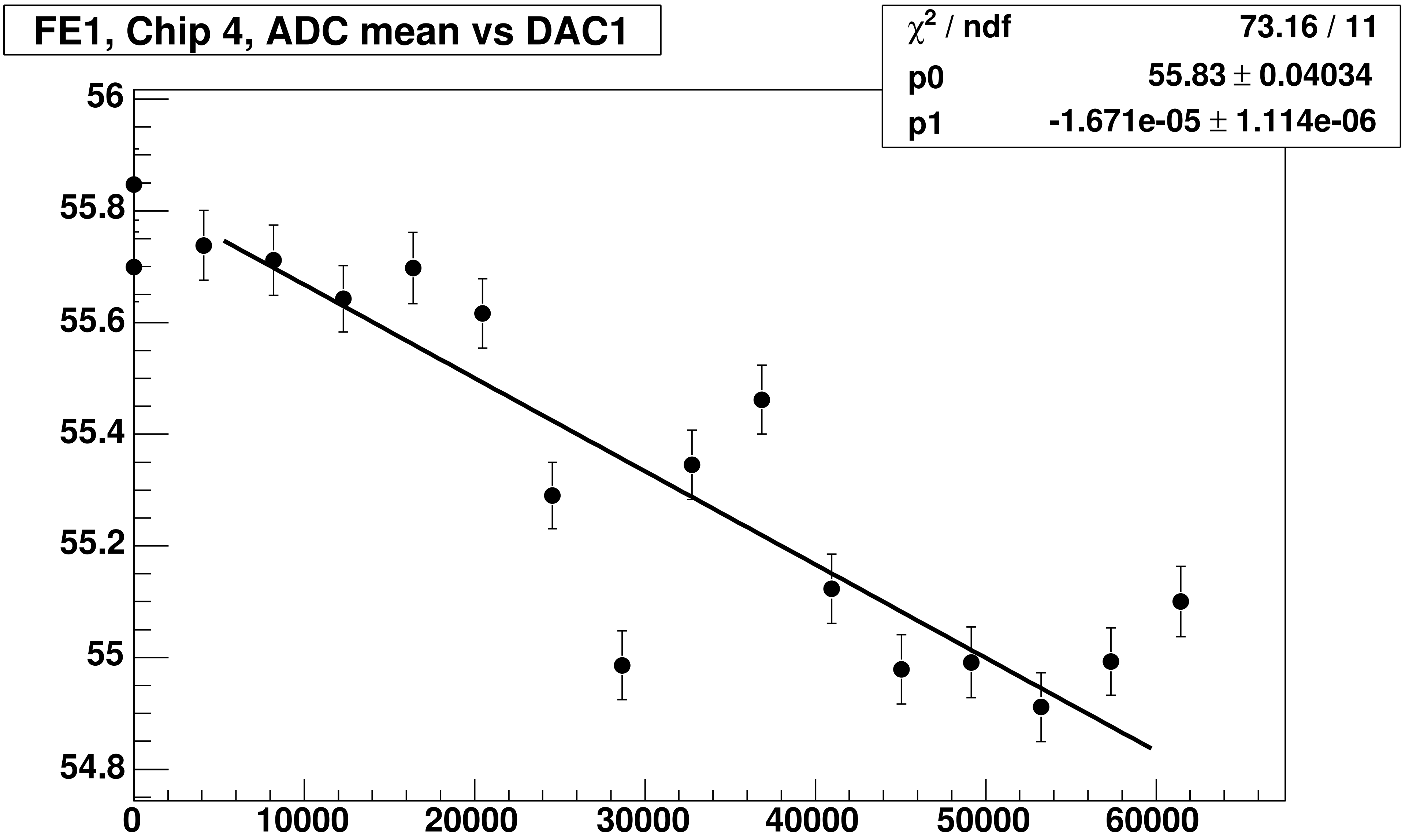

FE1, Chip 3, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

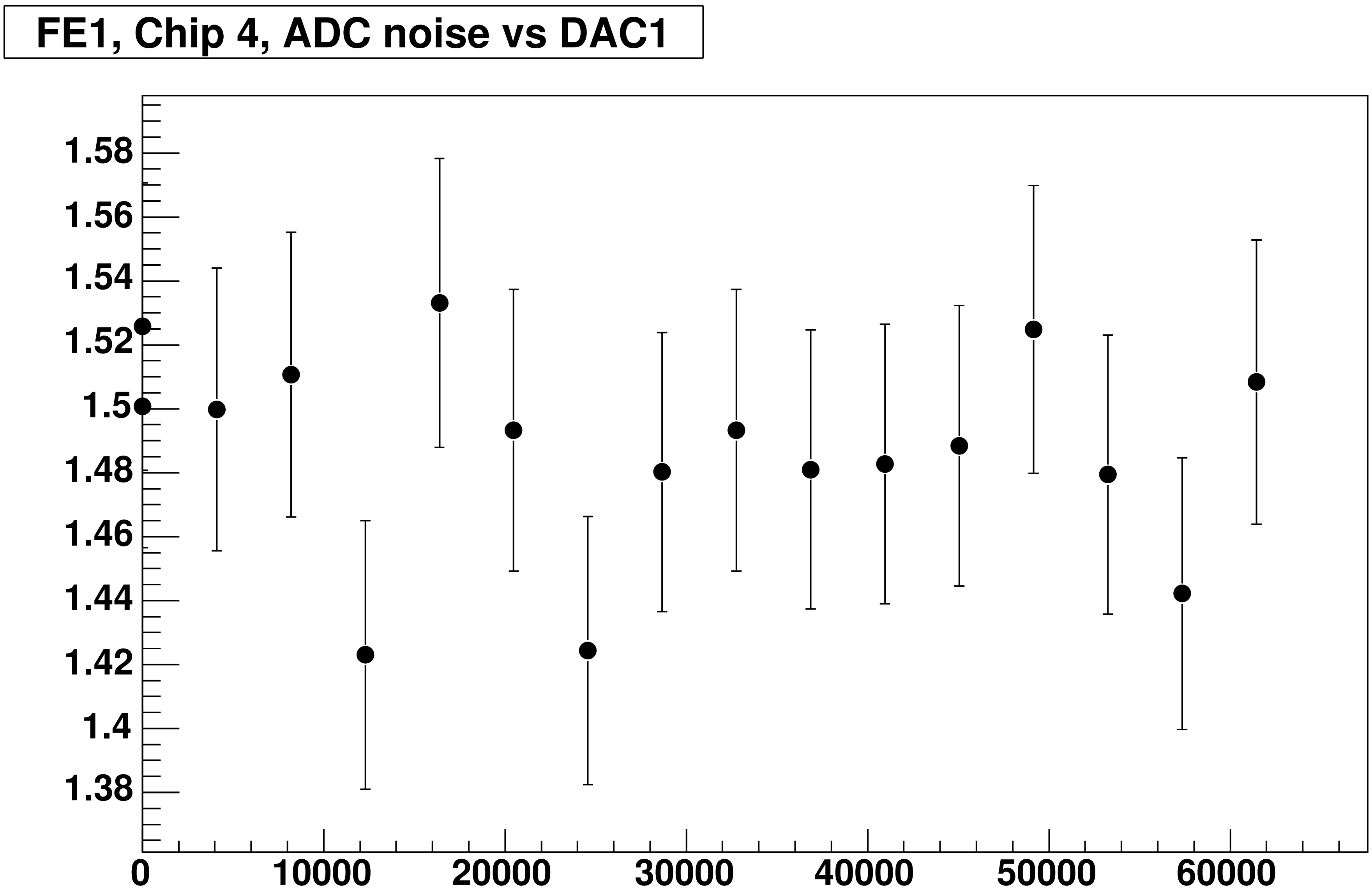

FE1, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1744 / 11
p0 54.96 ± 0.04167
p1 0.4514 ± 1.349e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

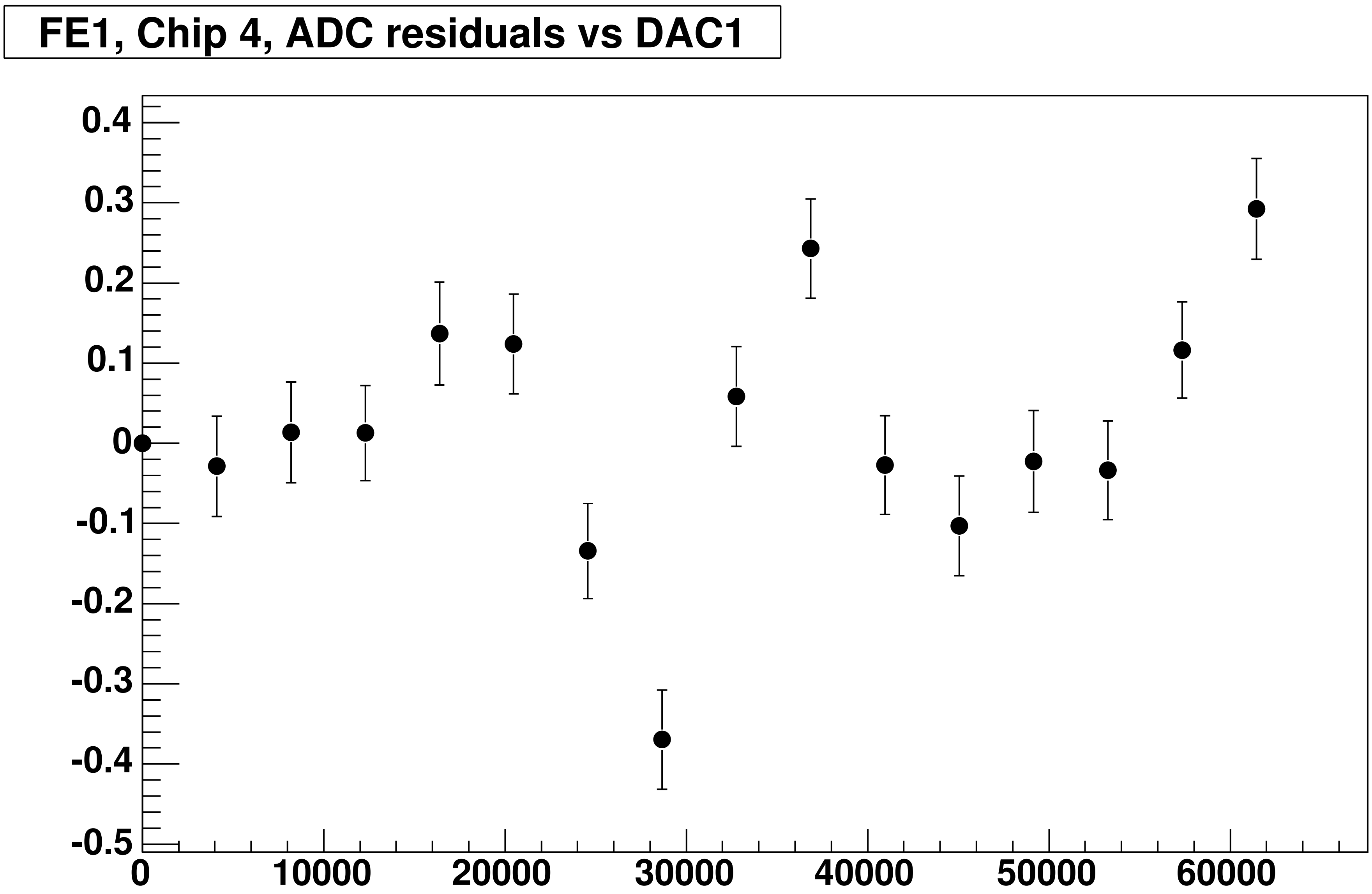

FE1, Chip 4, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

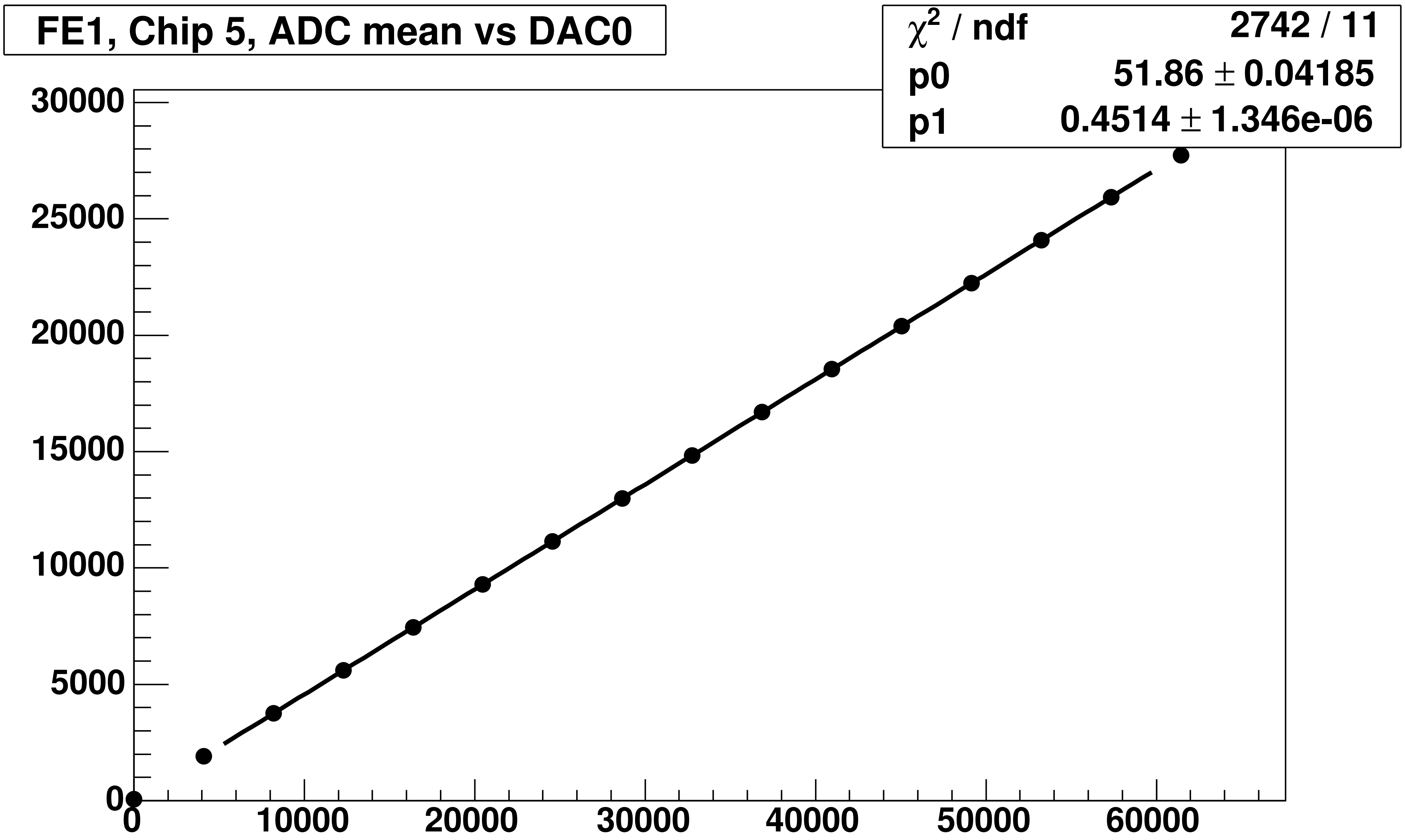


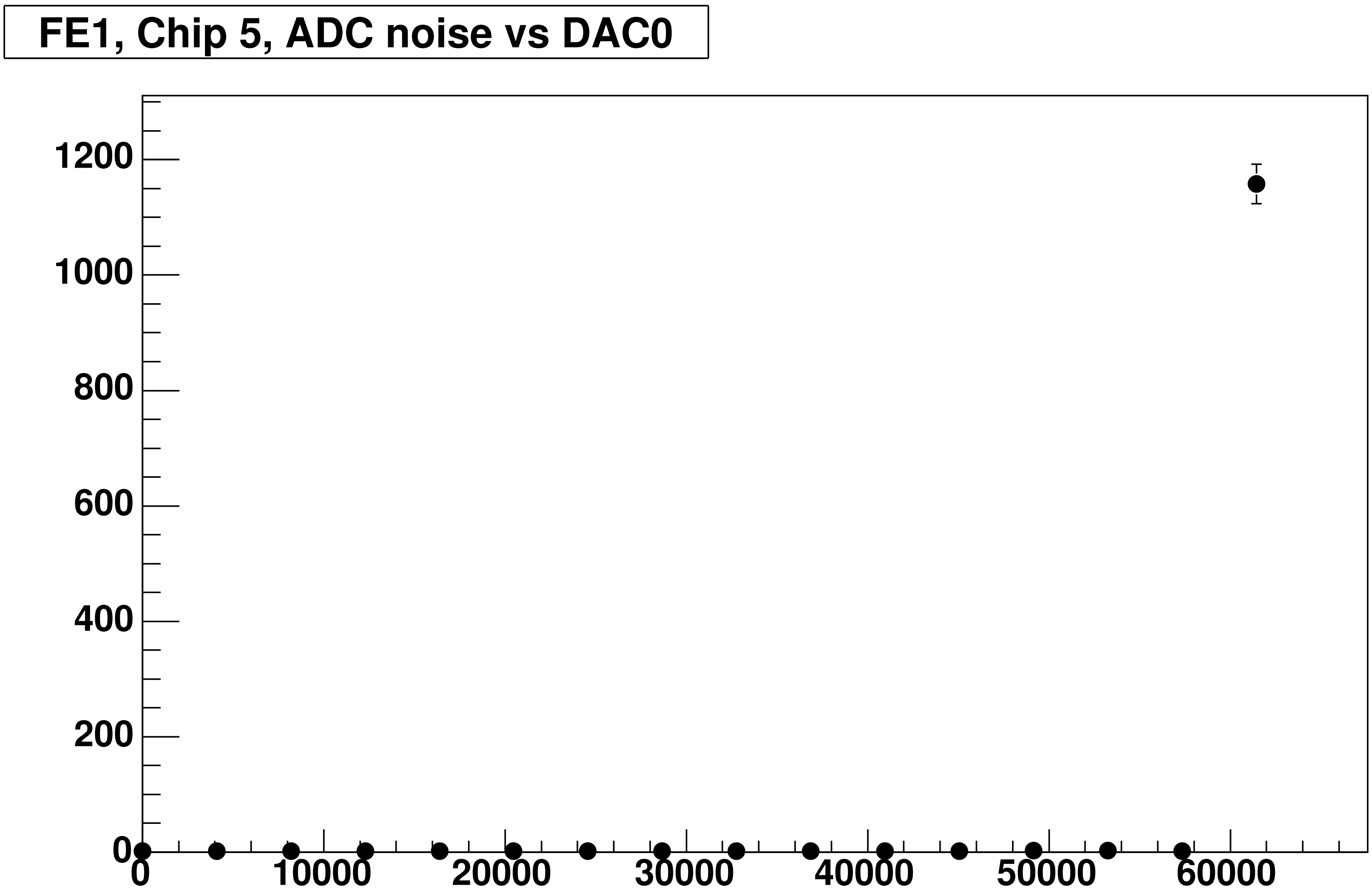
FE1, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

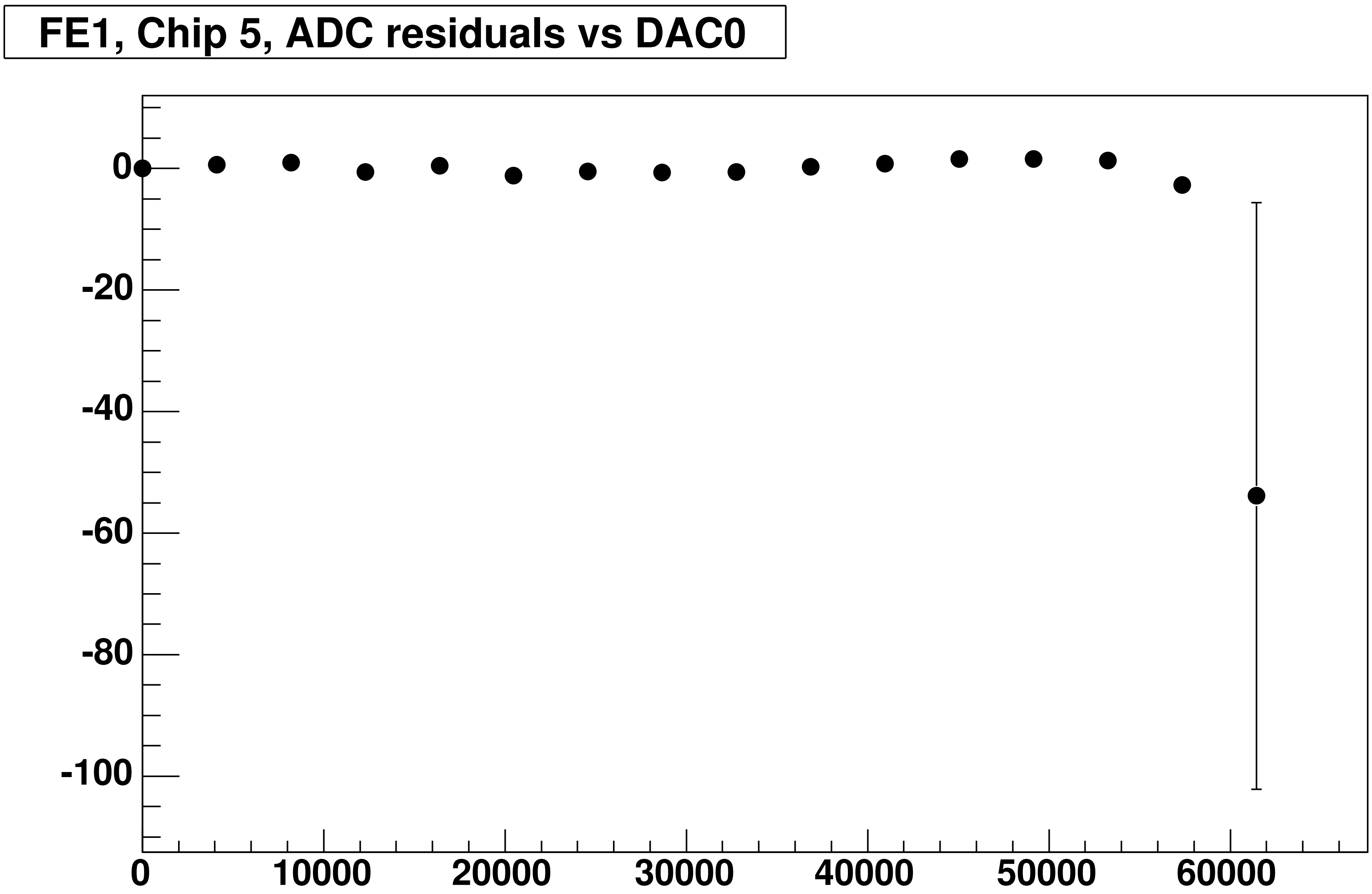

FE1, Chip 4, ADC mean vs DAC1
χ² / ndf 73.16 / 11
p0 55.83 ± 0.04034
p1 -1.671e-05 ± 1.114e-06
56
55.8
55.6
55.4
55.2
55
54.8
0
10000
20000
30000
40000
50000
60000

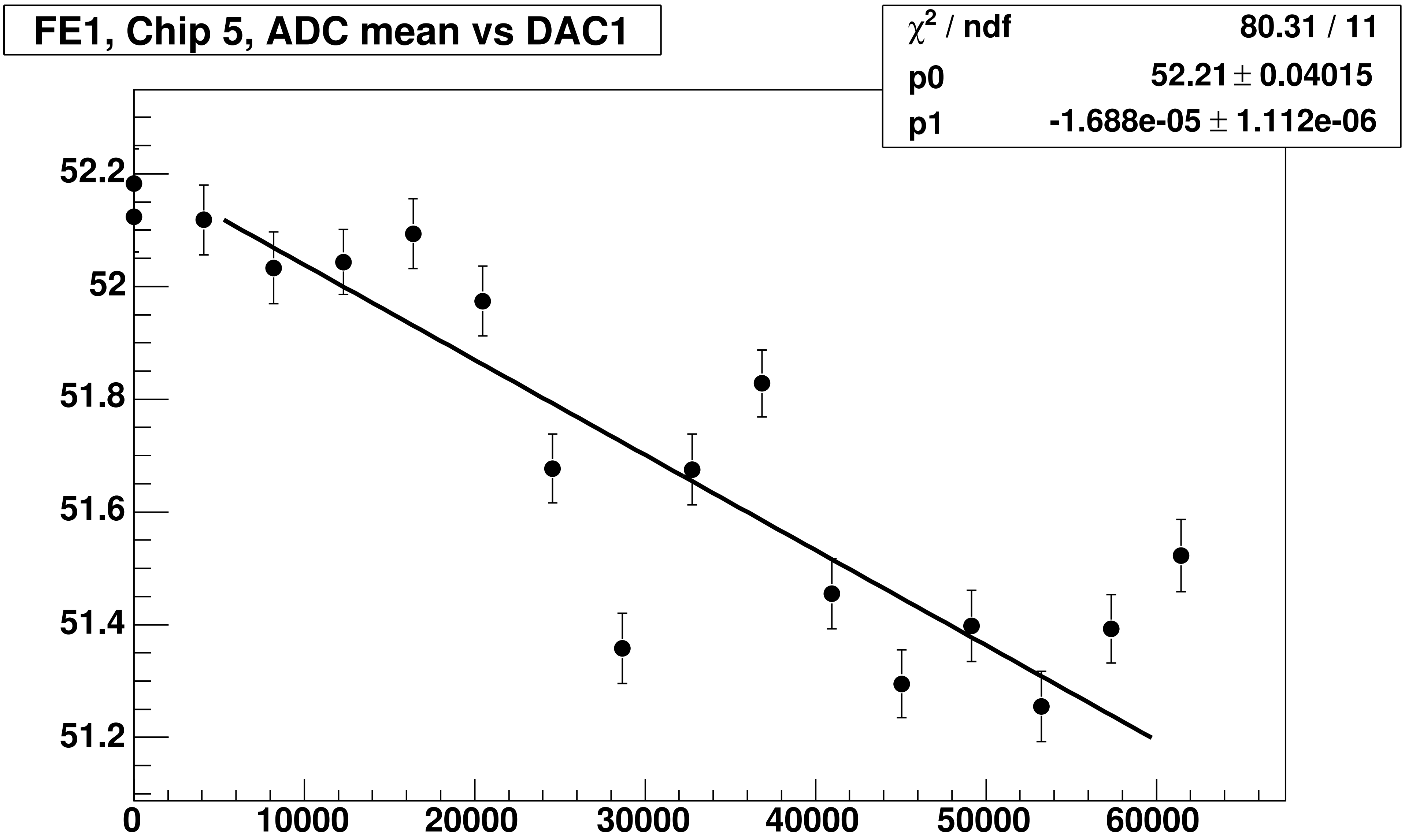

FE1, Chip 4, ADC noise vs DAC1
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
0
10000
20000
30000
40000
50000
60000


FE1, Chip 4, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000


FE1, Chip 5, ADC mean vs DAC0
χ^2 / ndf 2742 / 11
p0 51.86 ± 0.04185
p1 0.4514 ± 1.346e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

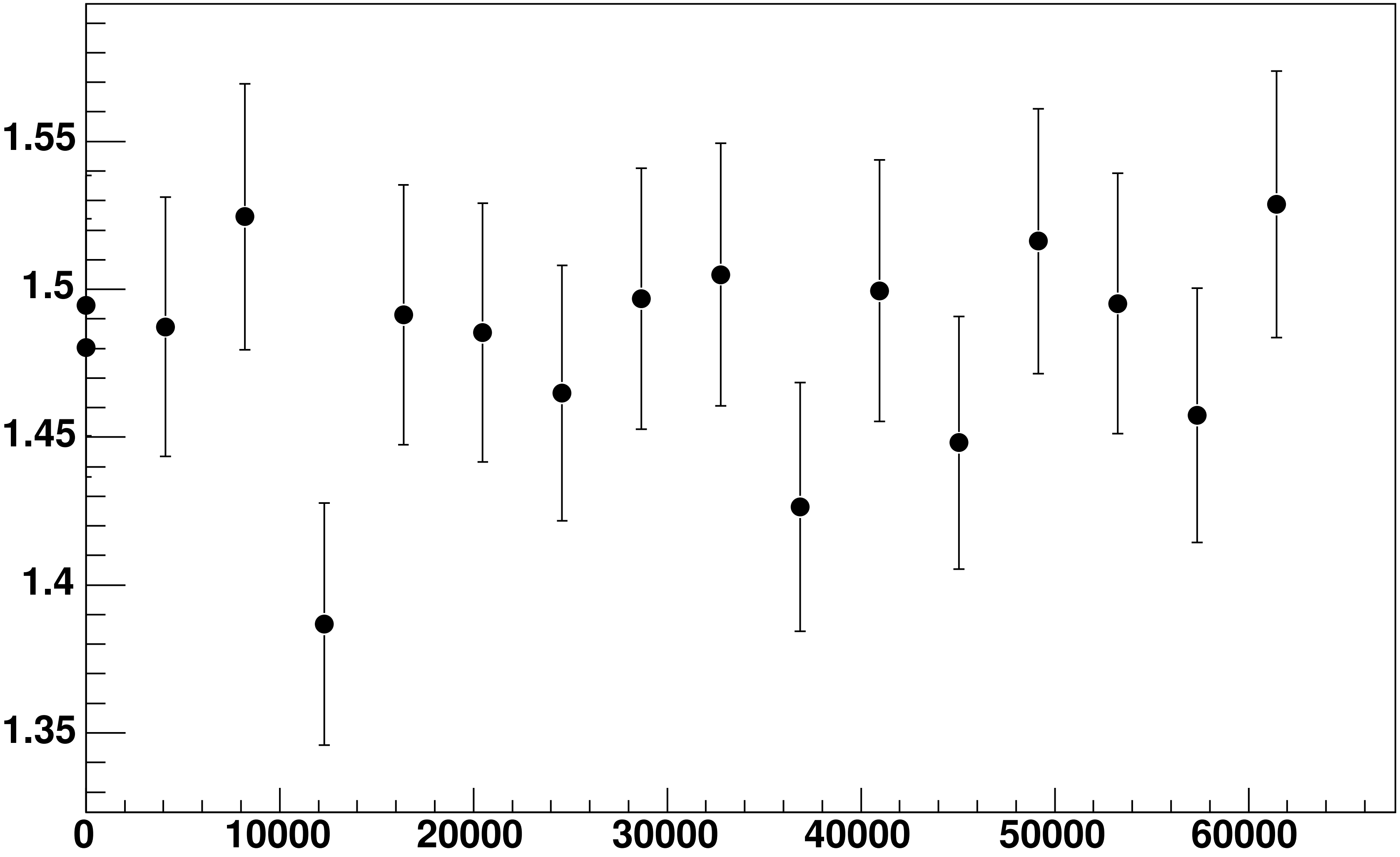

FE1, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

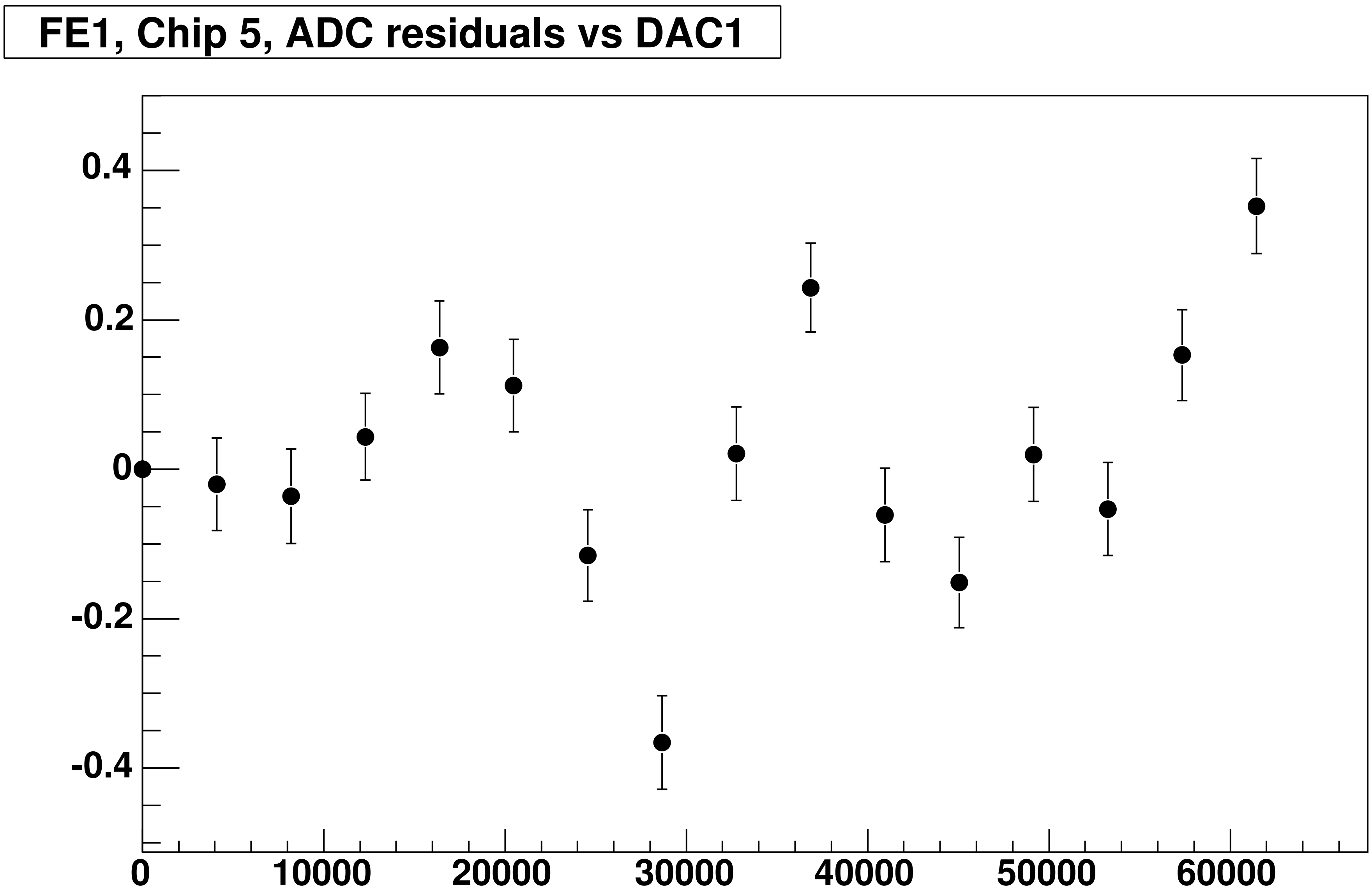

FE1, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

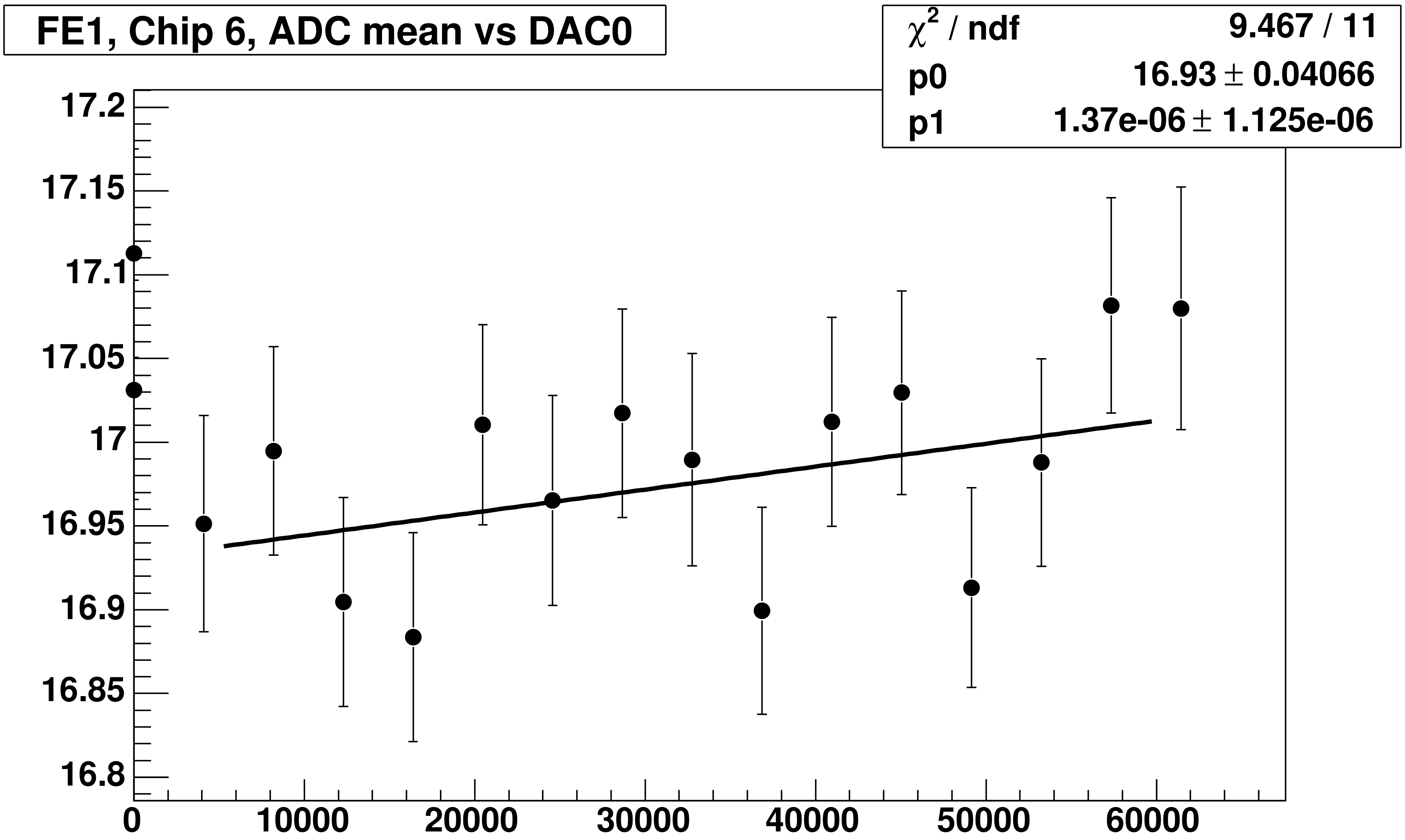


FE1, Chip 5, ADC mean vs DAC1
χ² / ndf 80.31 / 11
p0 52.21 ± 0.04015
p1 -1.688e-05 ± 1.112e-06
52.2
52
51.8
51.6
51.4
51.2
0
10000
20000
30000
40000
50000
60000

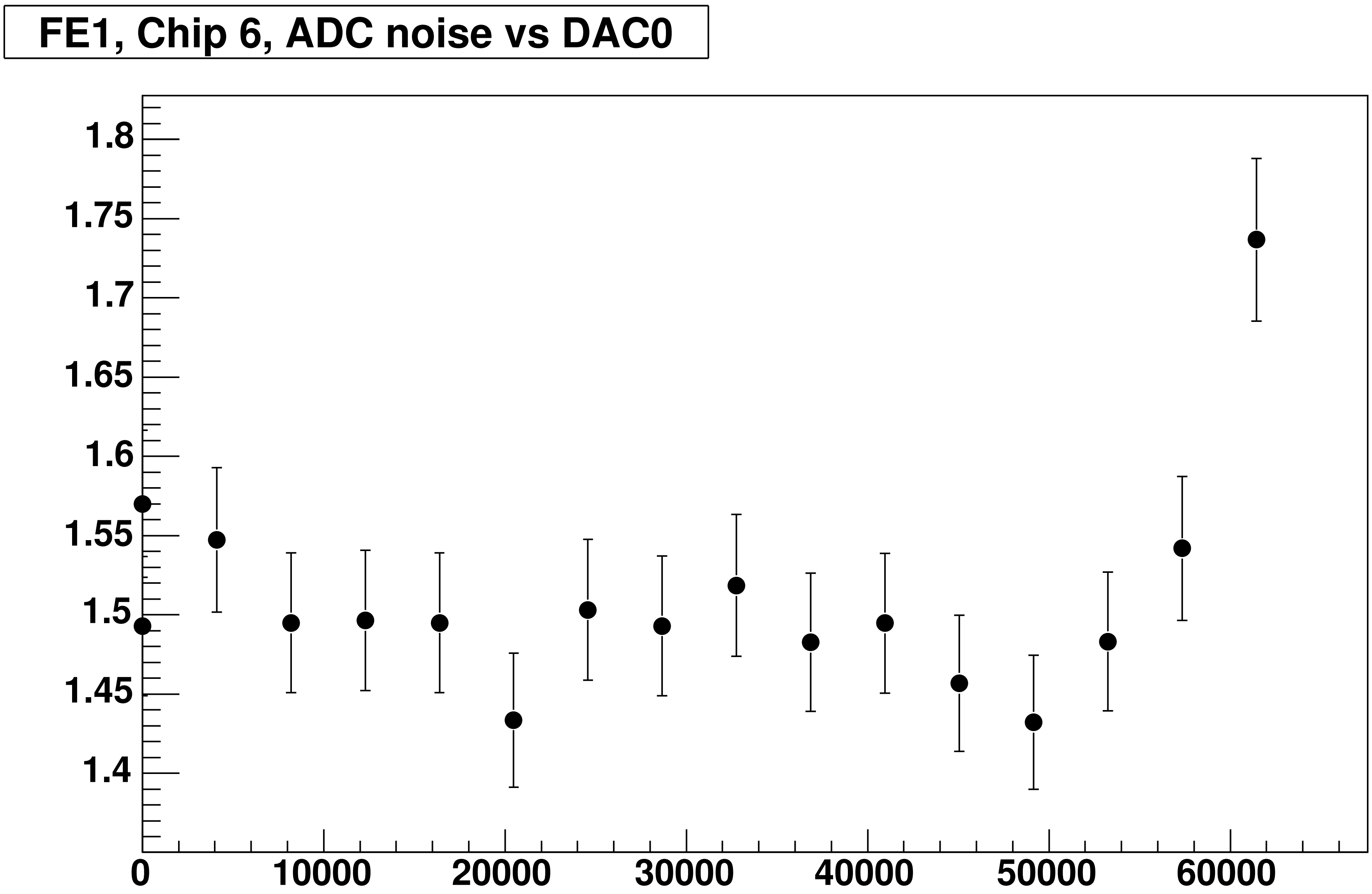
FE1, Chip 5, ADC noise vs DAC1

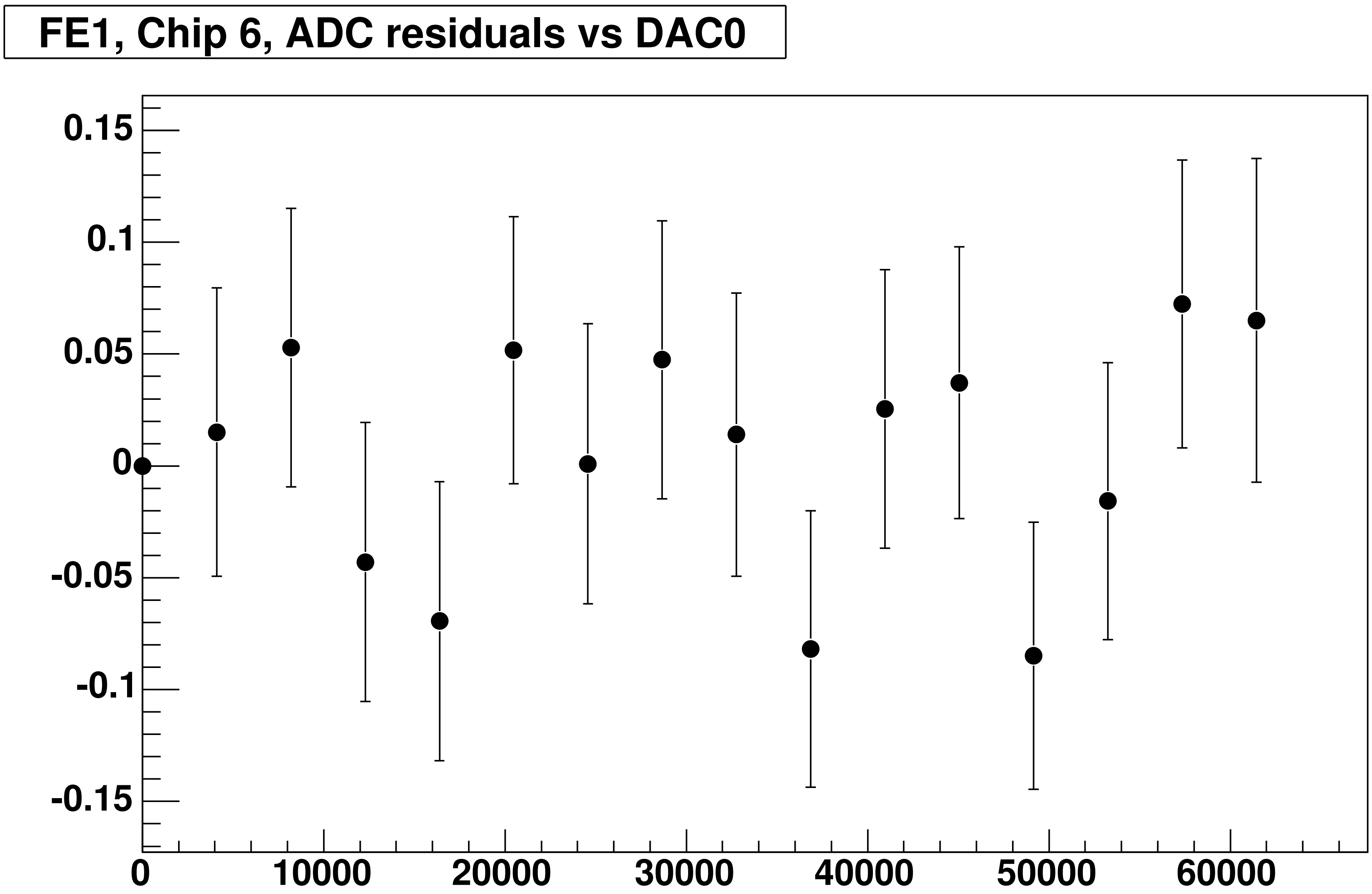


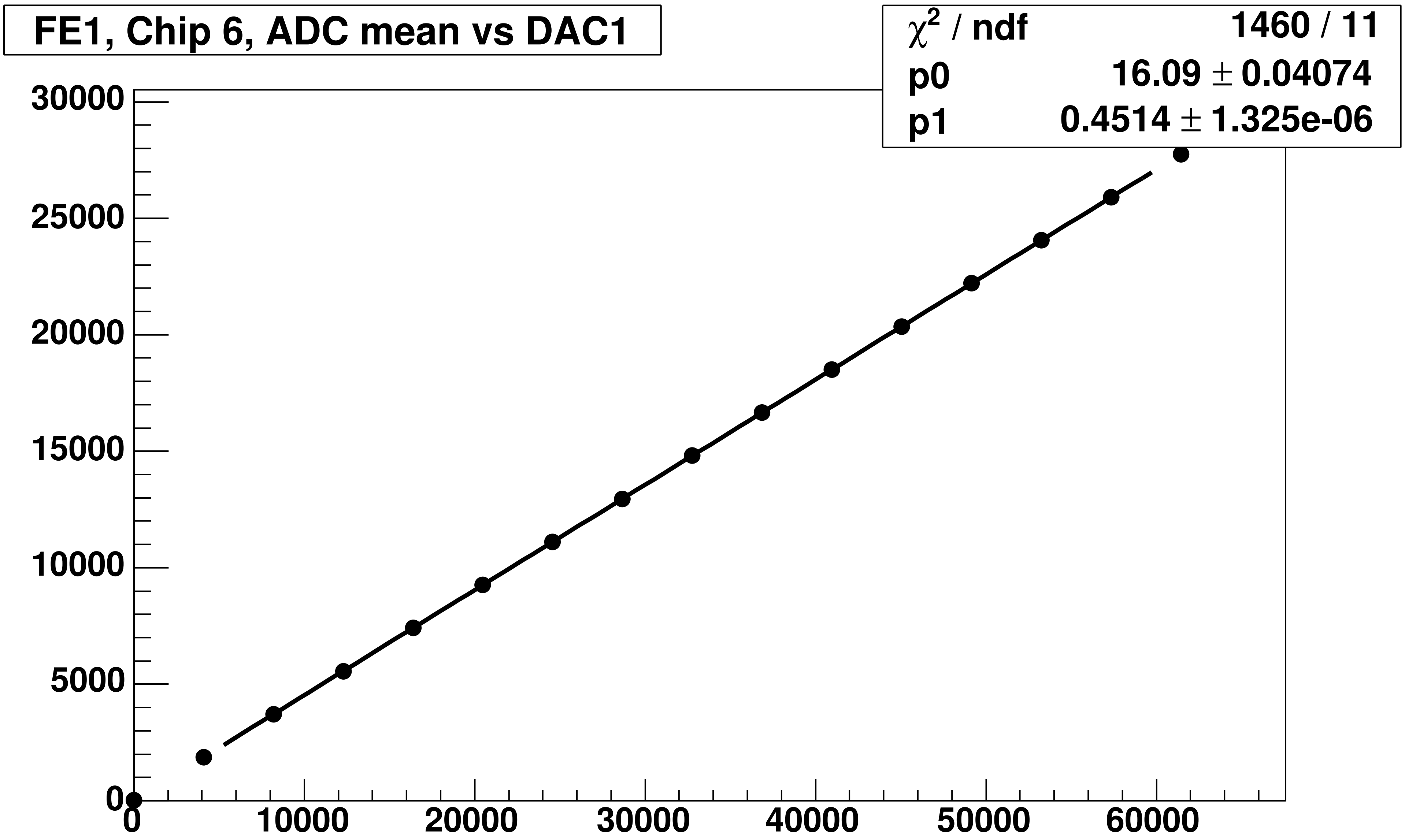

FE1, Chip 5, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000



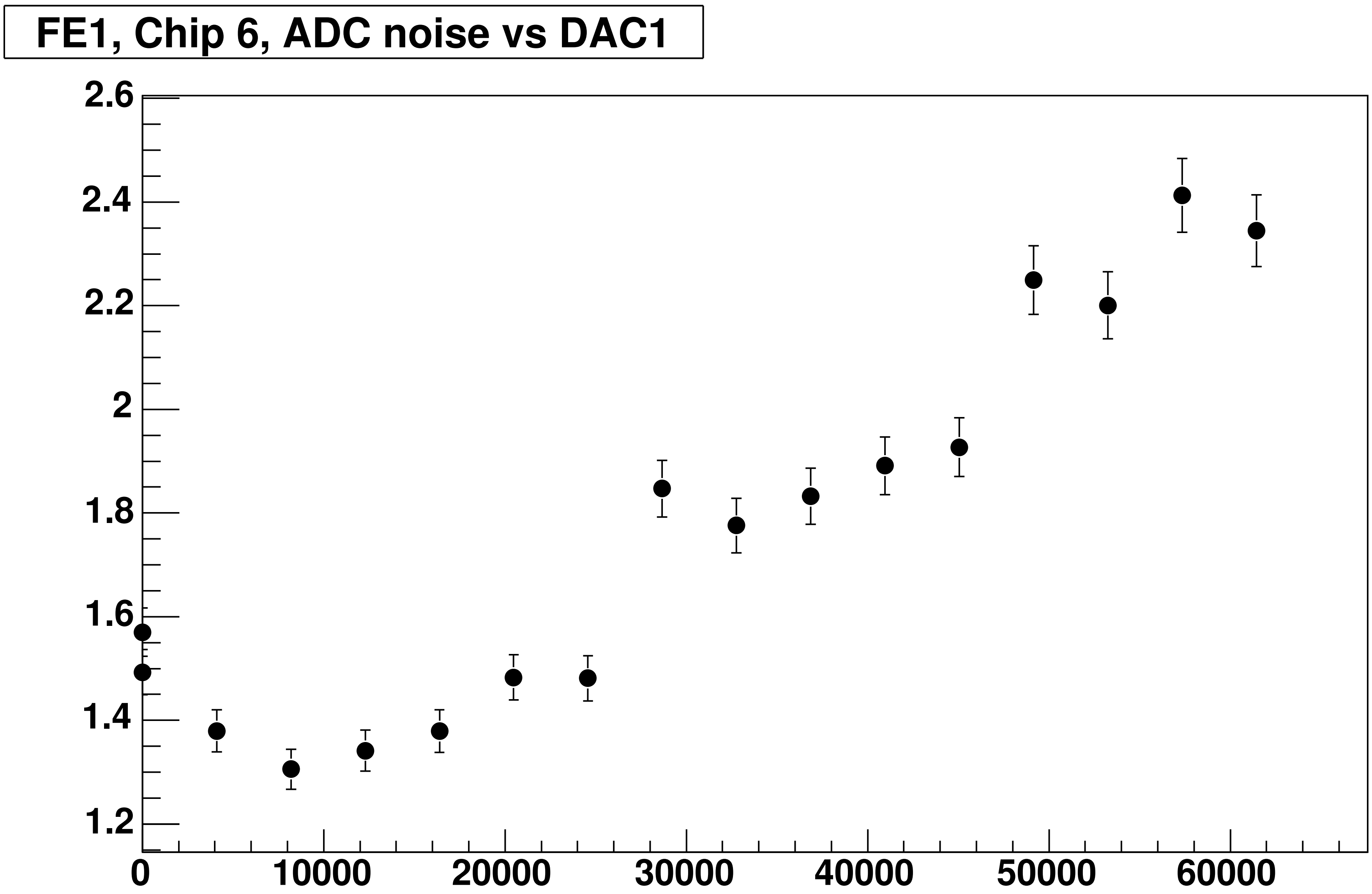
FE1, Chip 6, ADC mean vs DAC0
χ² / ndf 9.467 / 11
p0 16.93 ± 0.04066
p1 1.37e-06 ± 1.125e-06
17.2
17.15
17.1
17.05
17
16.95
16.9
16.85
16.8
0
10000
20000
30000
40000
50000
60000

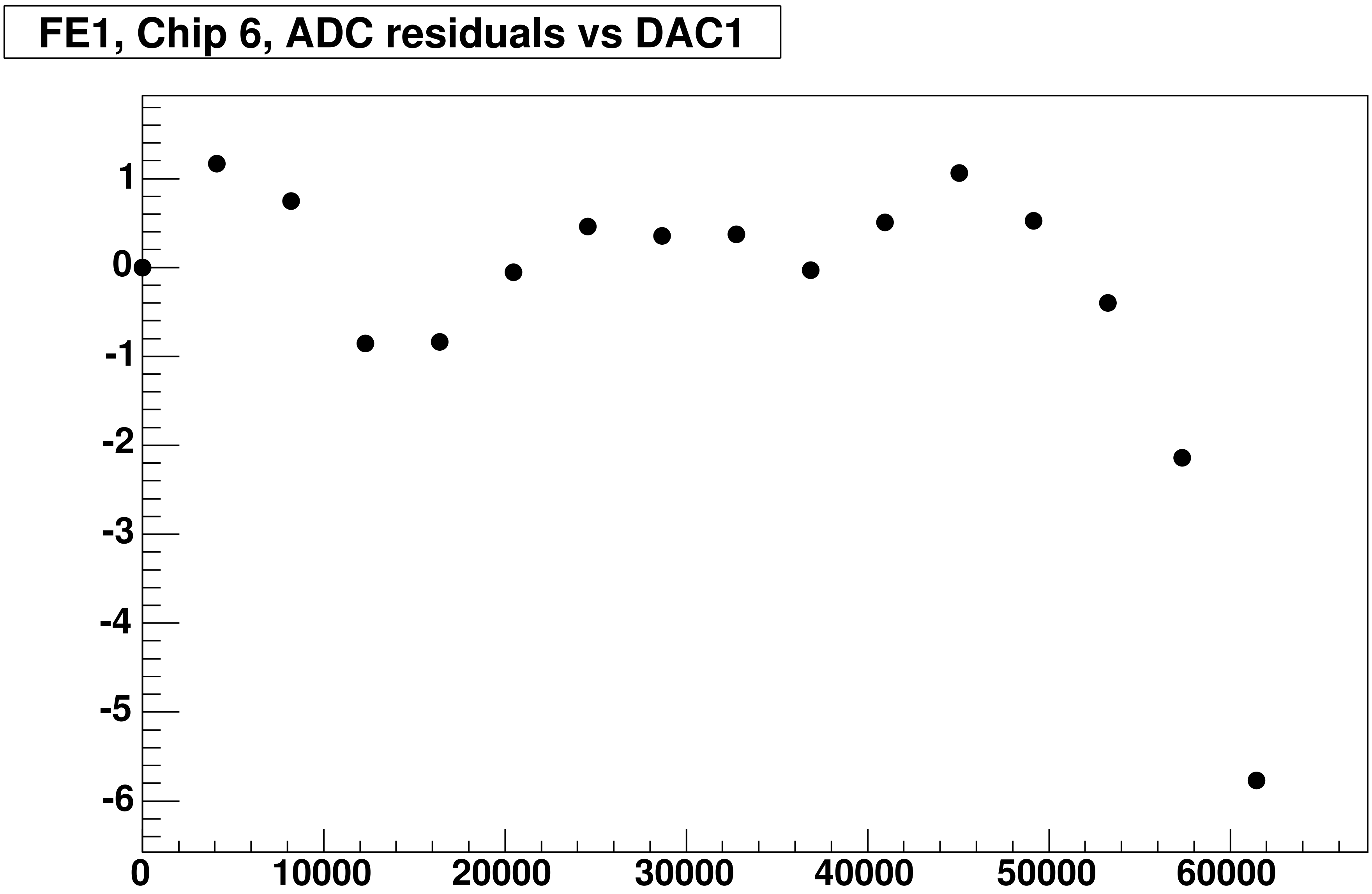

FE1, Chip 6, ADC noise vs DAC0
1.8
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

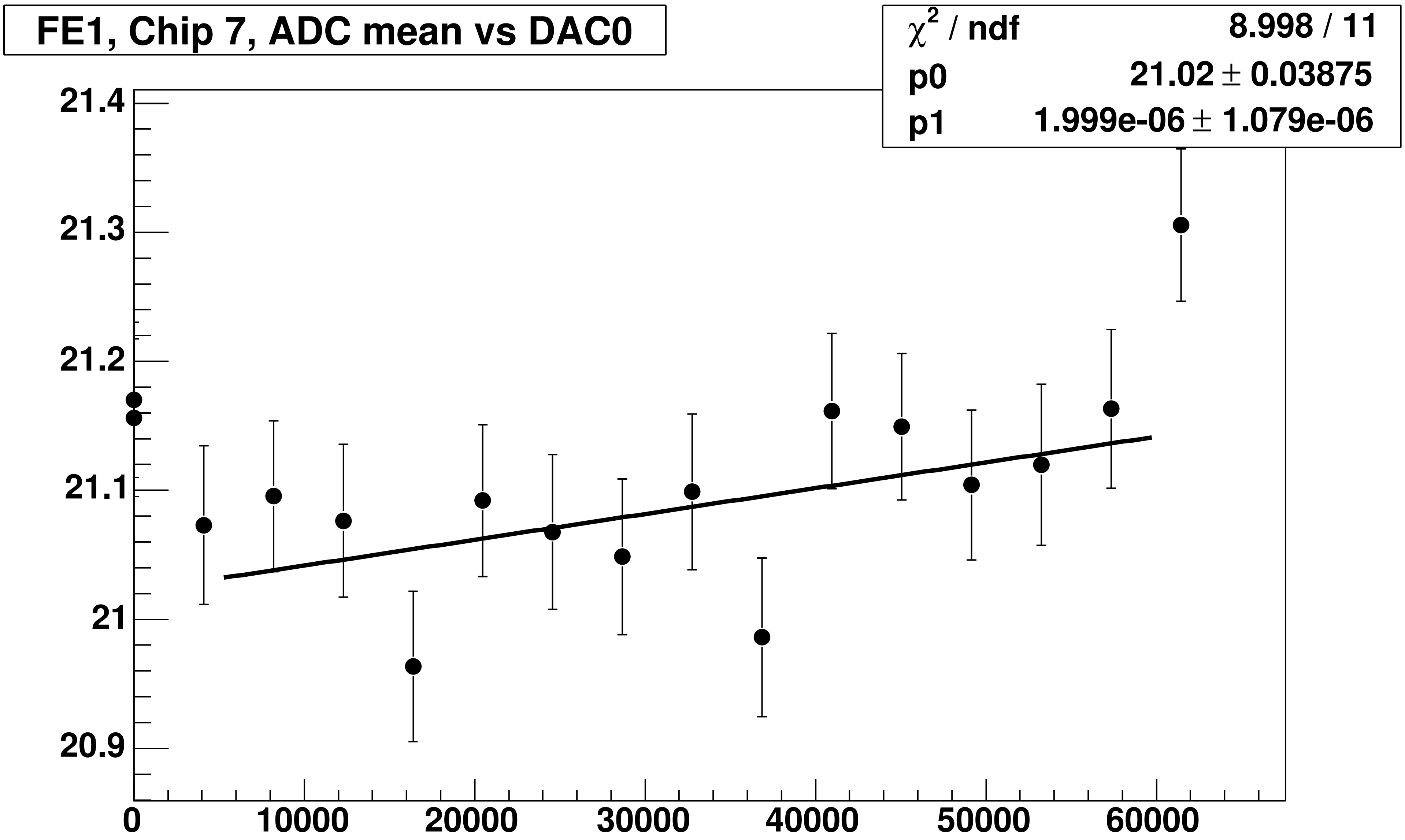

FE1, Chip 6, ADC residuals vs DAC0
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

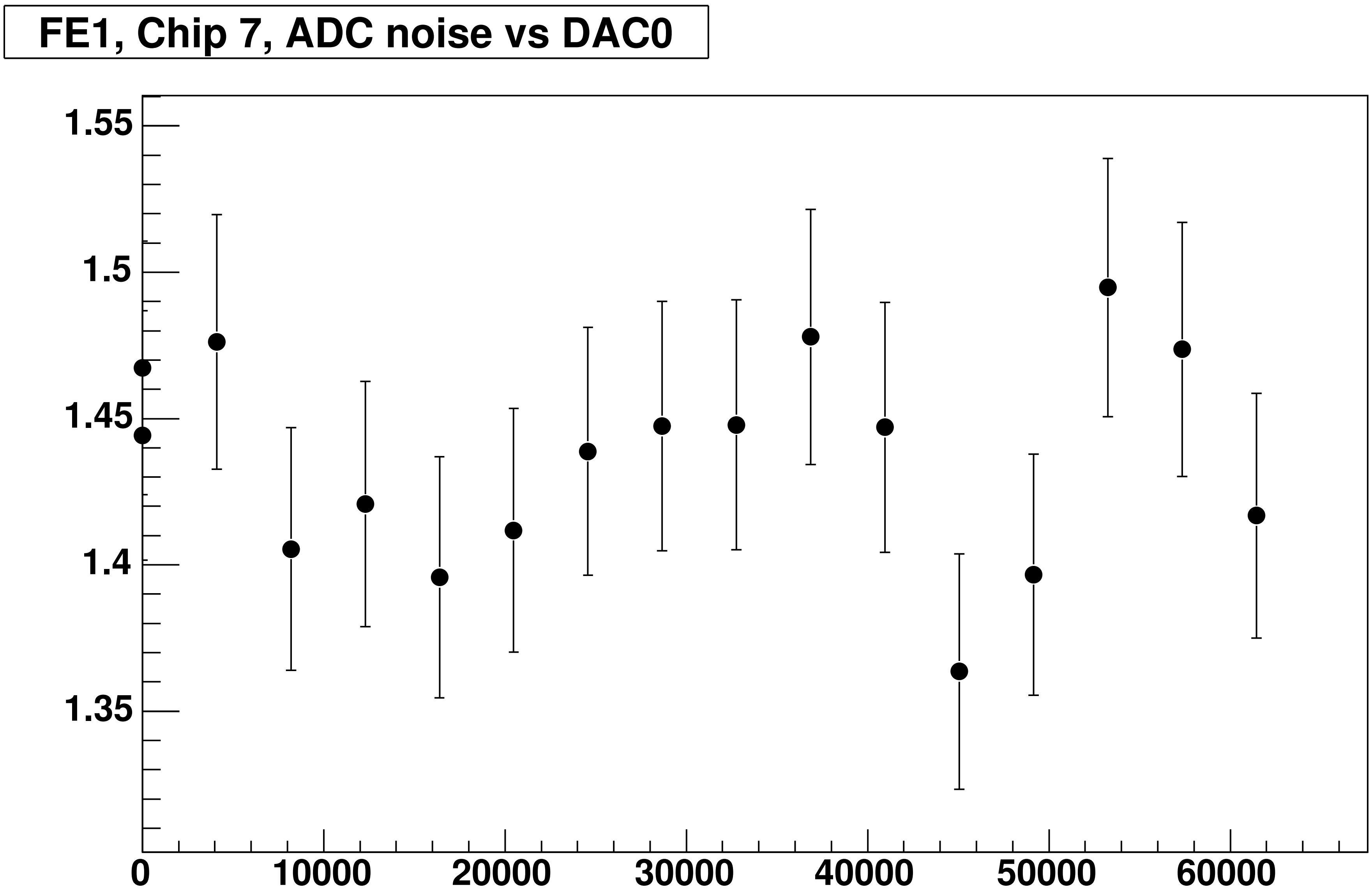


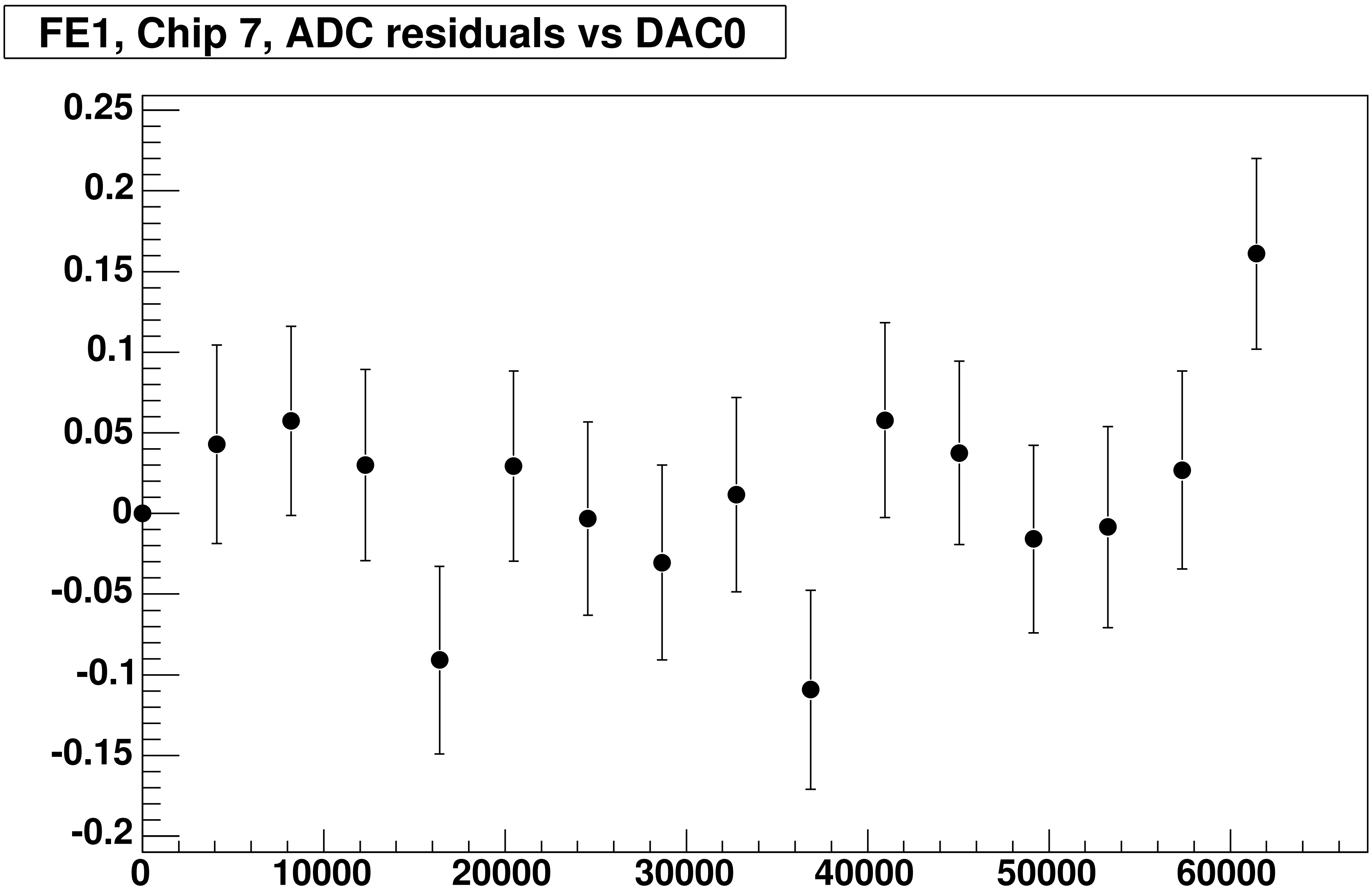
FE1, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1460 / 11
p0 16.09 ± 0.04074
p1 0.4514 ± 1.325e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE1, 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

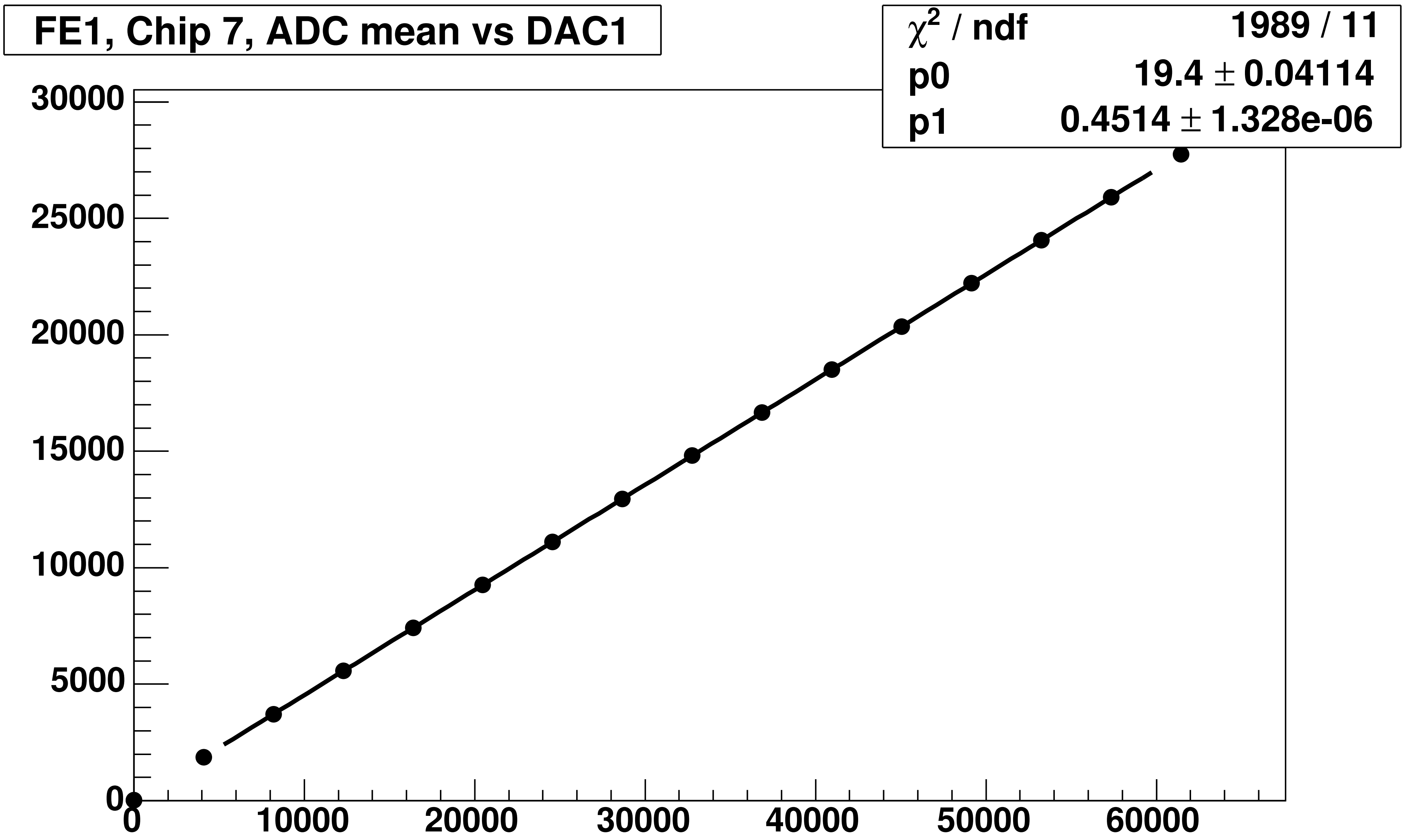

FE1, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE1, Chip 7, ADC mean vs DAC0
χ^2 / ndf 8.998 / 11
p0 21.02 ± 0.03875
p1 1.999e-06 ± 1.079e-06
21.4
21.3
21.2
21.1
21
20.9
0
10000
20000
30000
40000
50000
60000

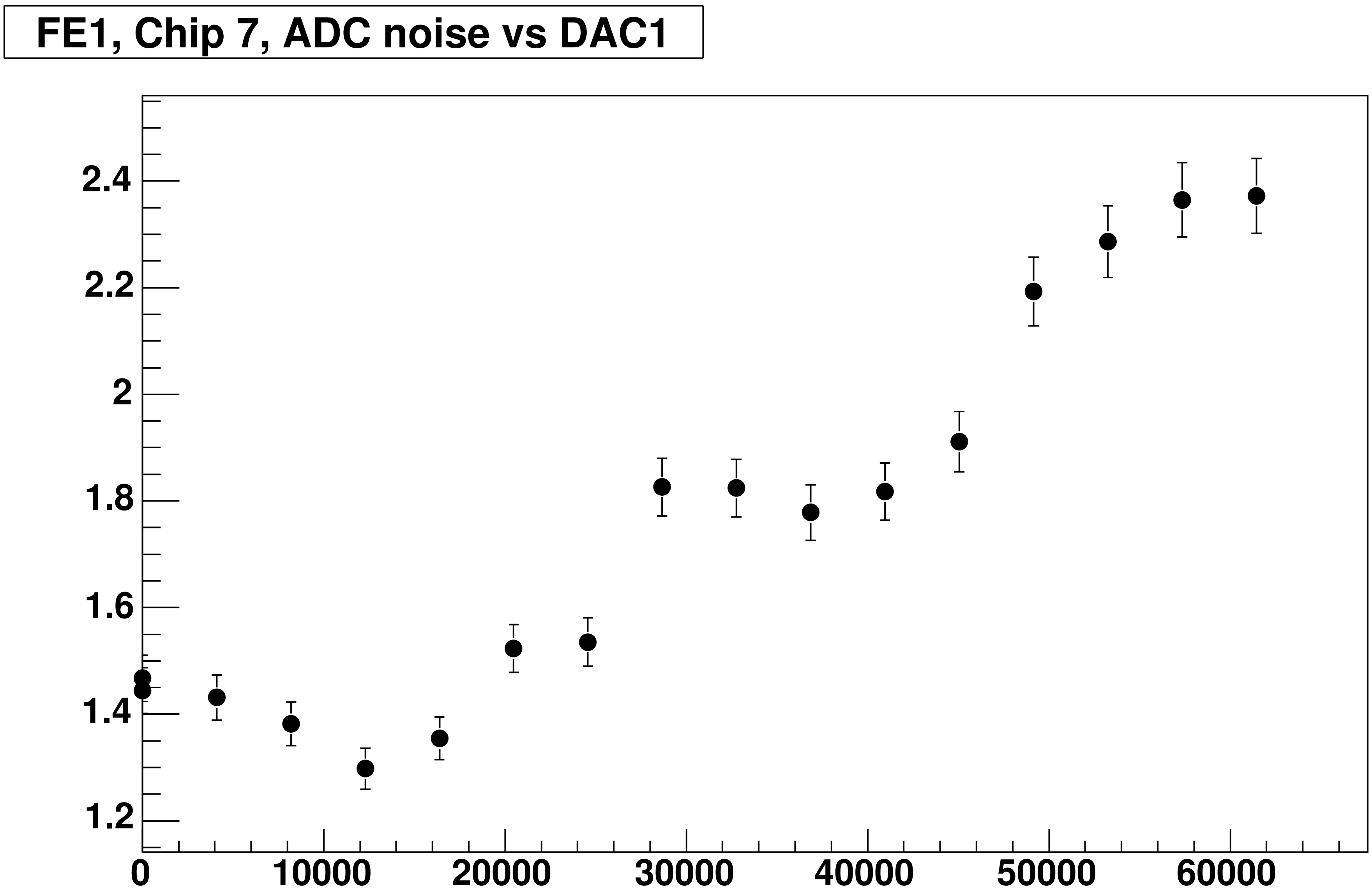

FE1, Chip 7, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



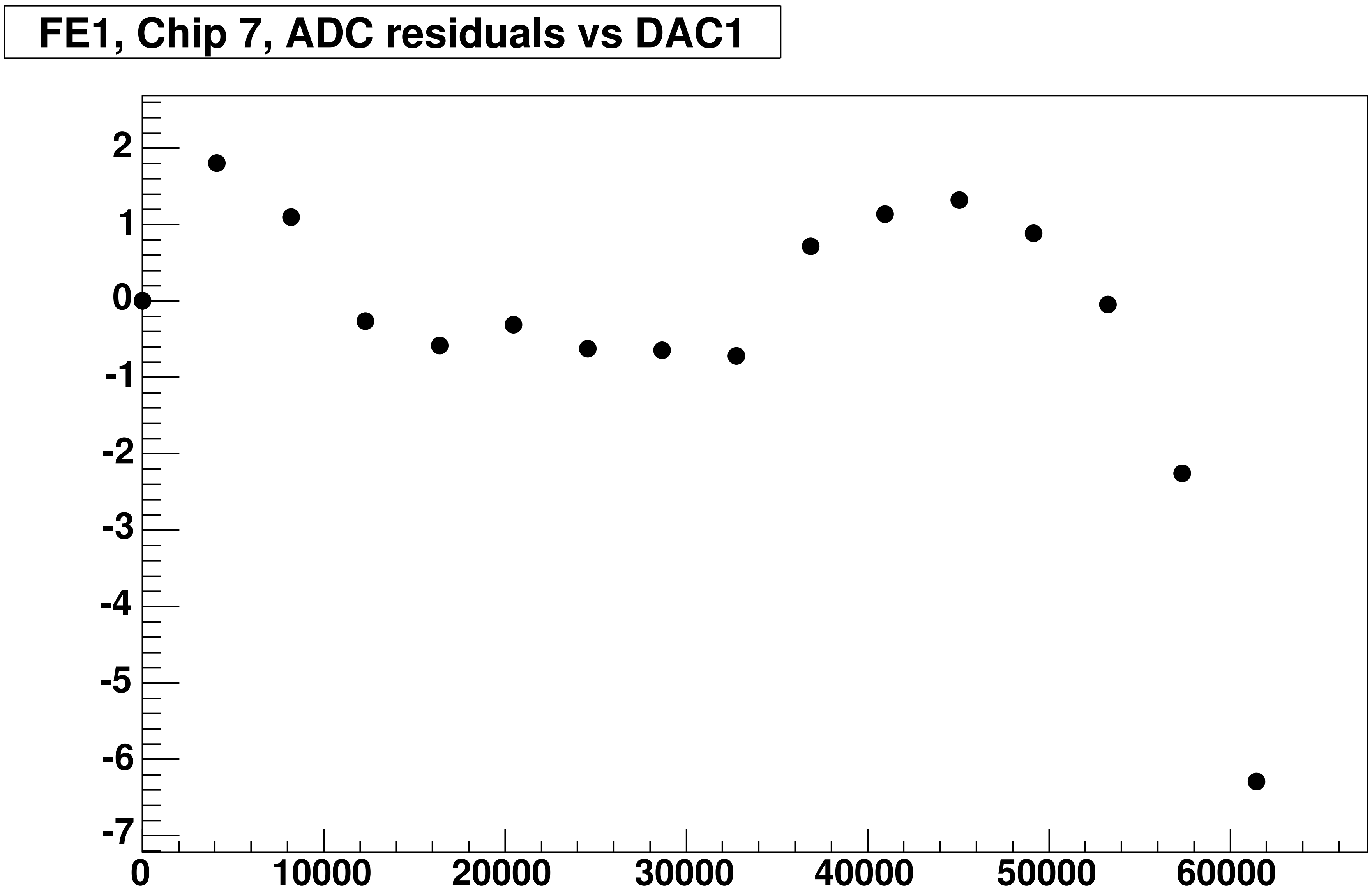
FE1, Chip 7, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

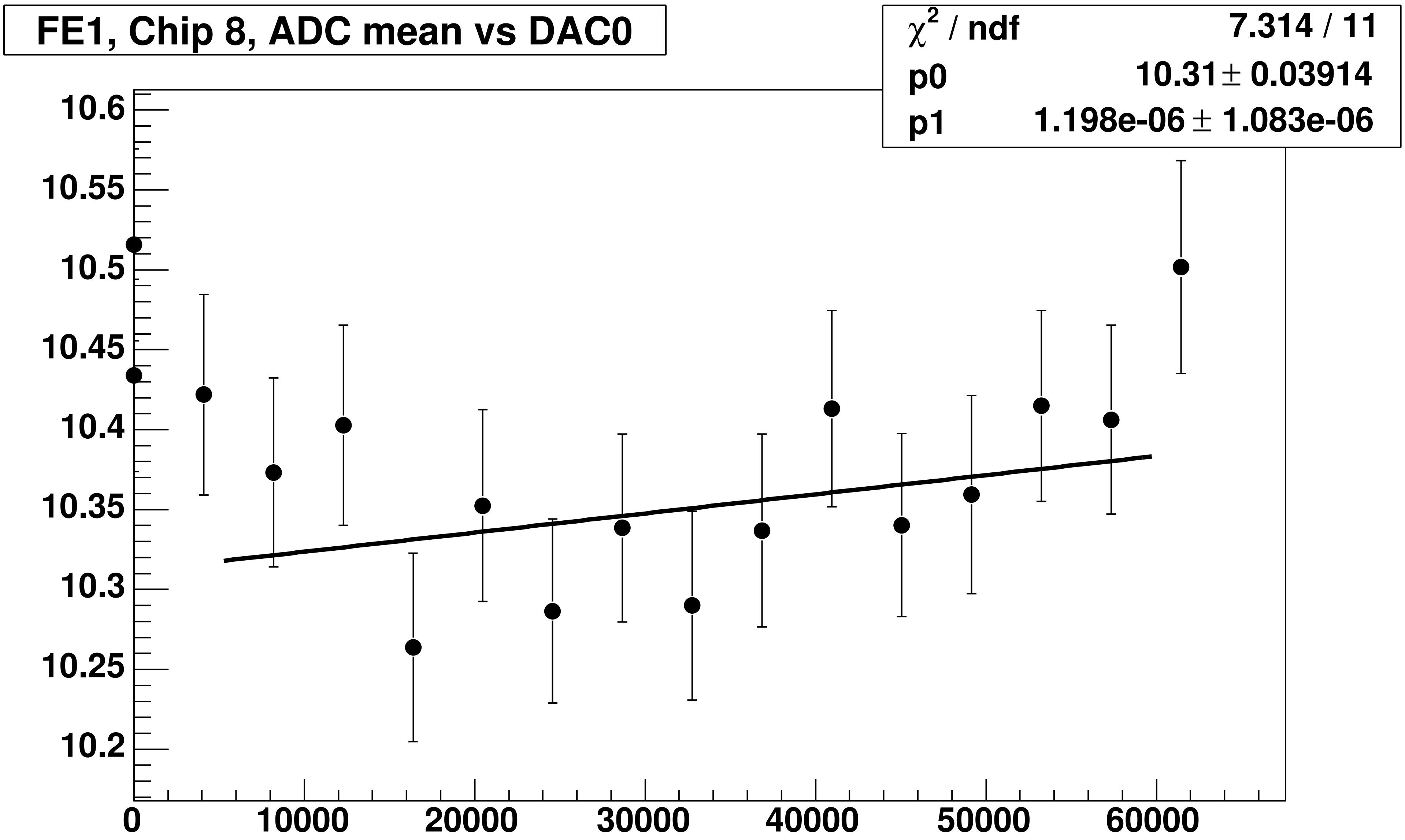


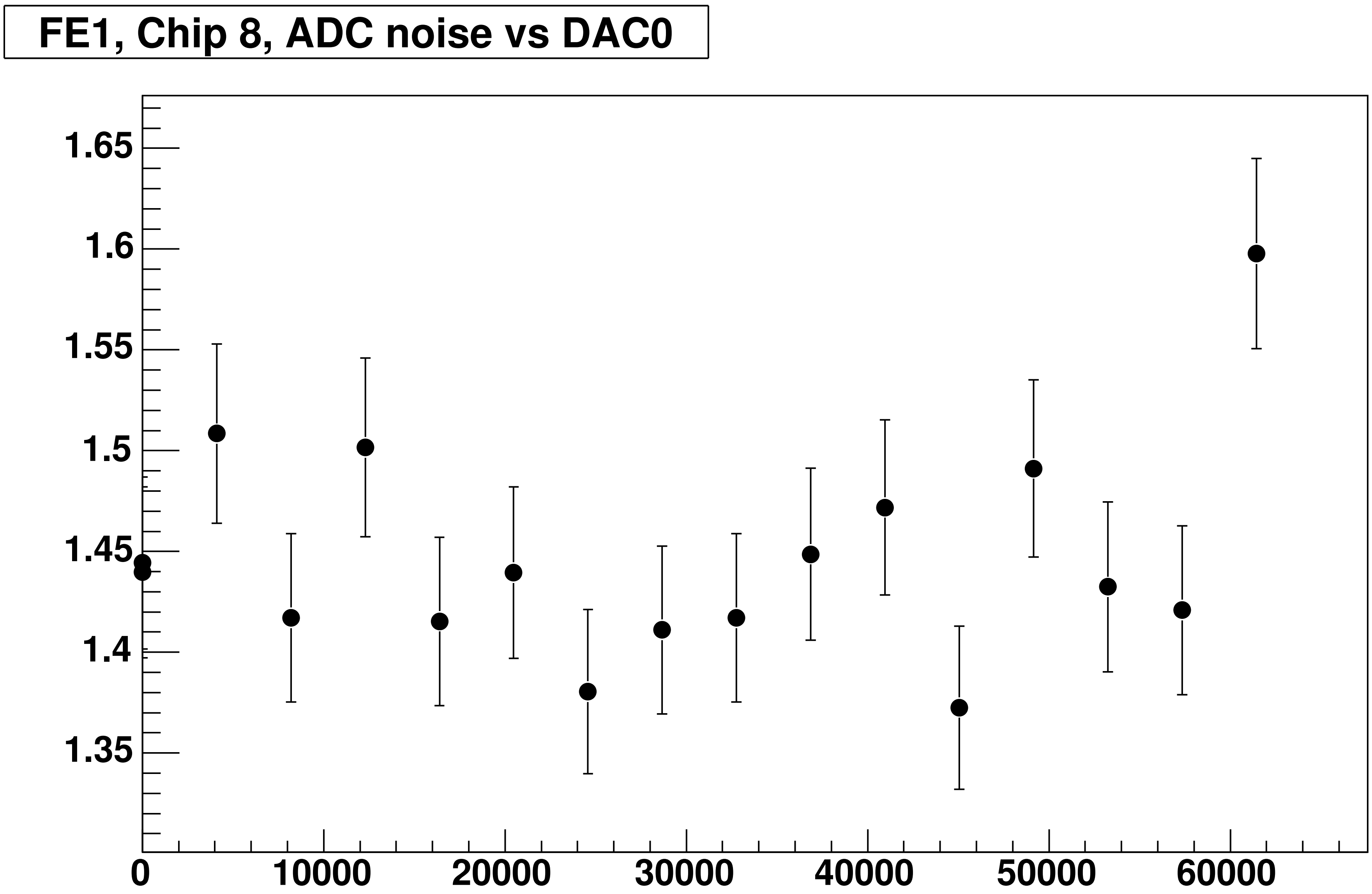
FE1, Chip 7, ADC mean vs DAC1
χ2 / ndf 1989 / 11
p0 19.4 ± 0.04114
p1 0.4514 ± 1.328e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000



FE1, 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

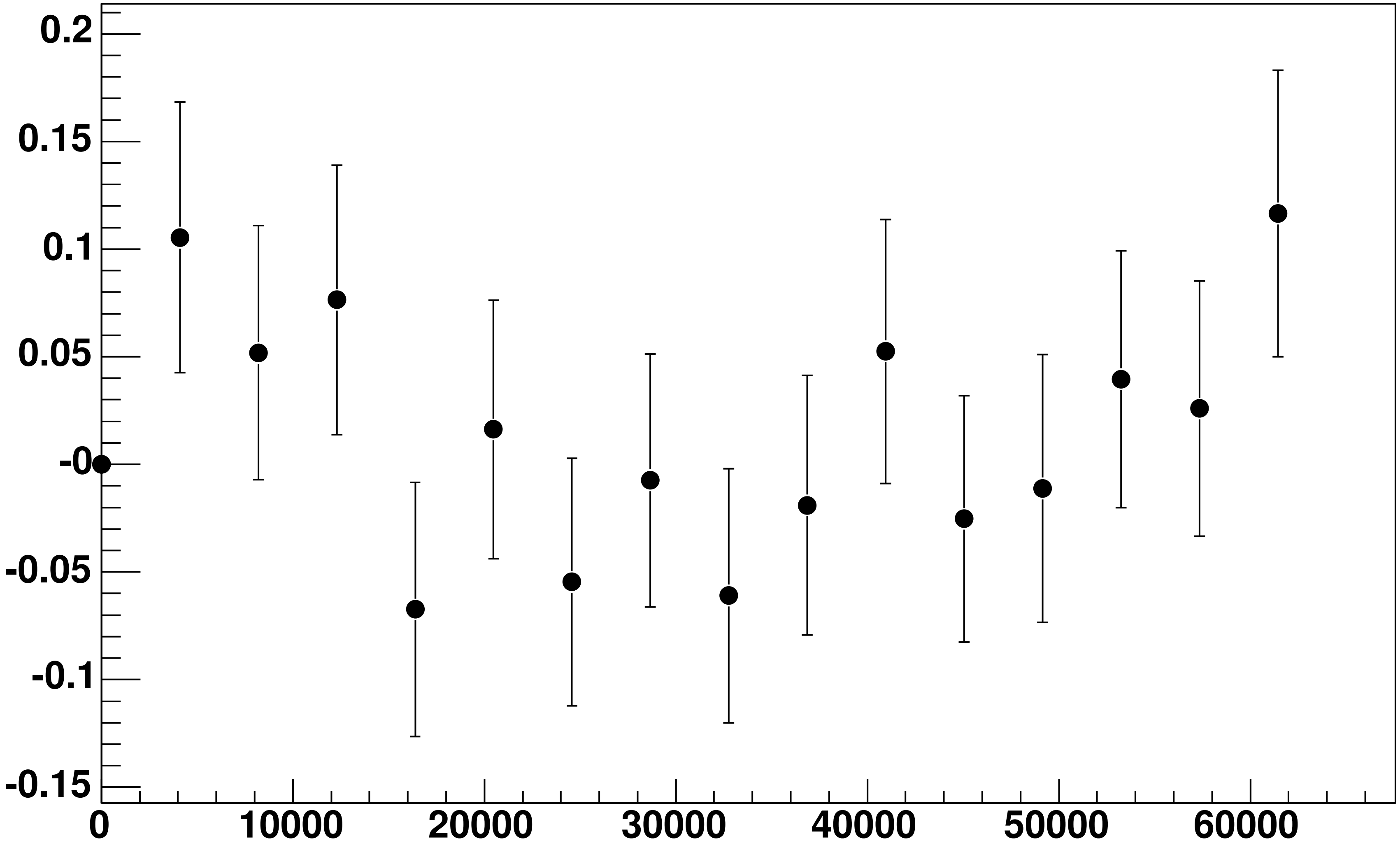

FE1, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

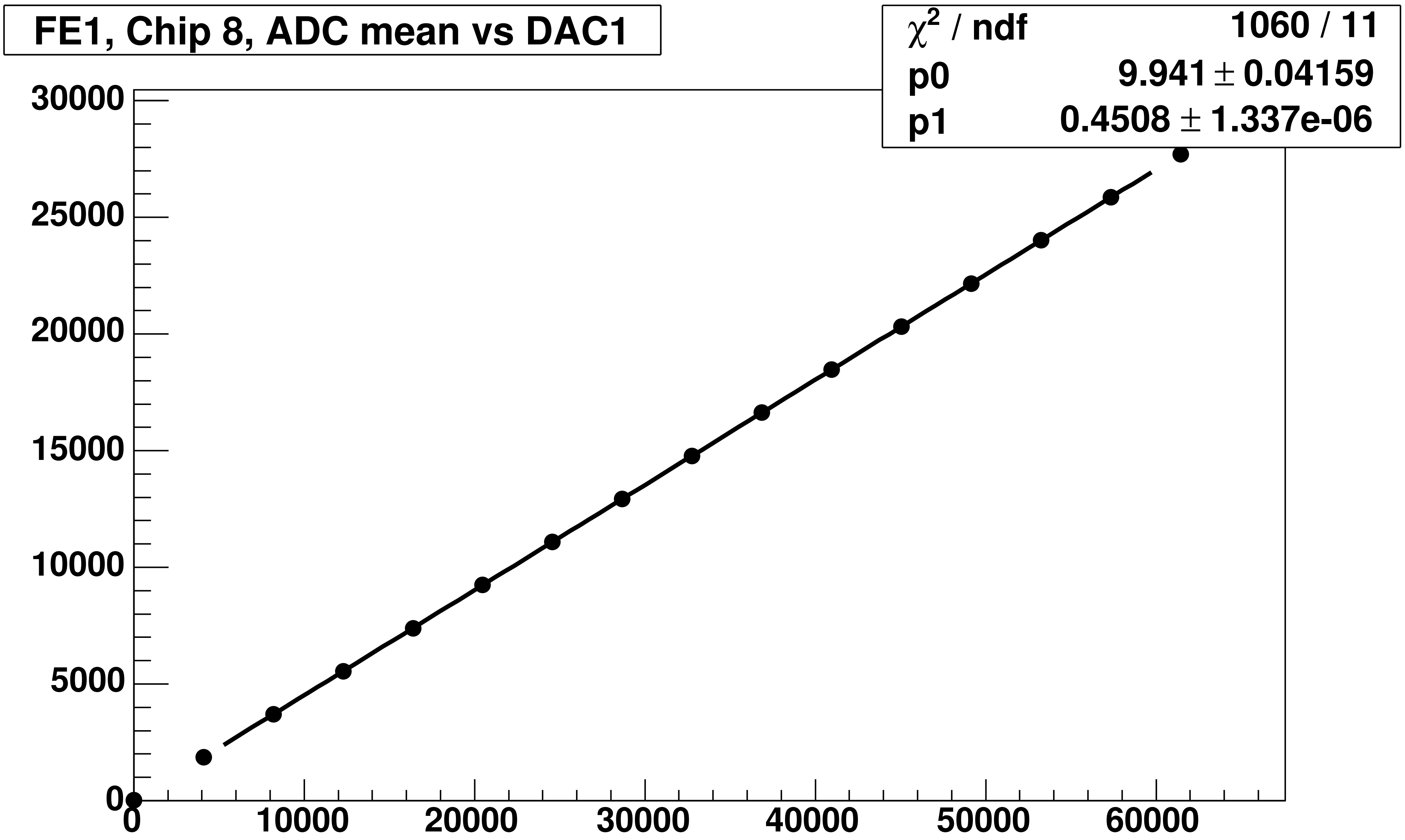

FE1, Chip 8, ADC mean vs DAC0
χ^2 / ndf 7.314 / 11
p0 10.31 ± 0.03914
p1 1.198e-06 ± 1.083e-06
10.6
10.55
10.5
10.45
10.4
10.35
10.3
10.25
10.2
0
10000
20000
30000
40000
50000
60000



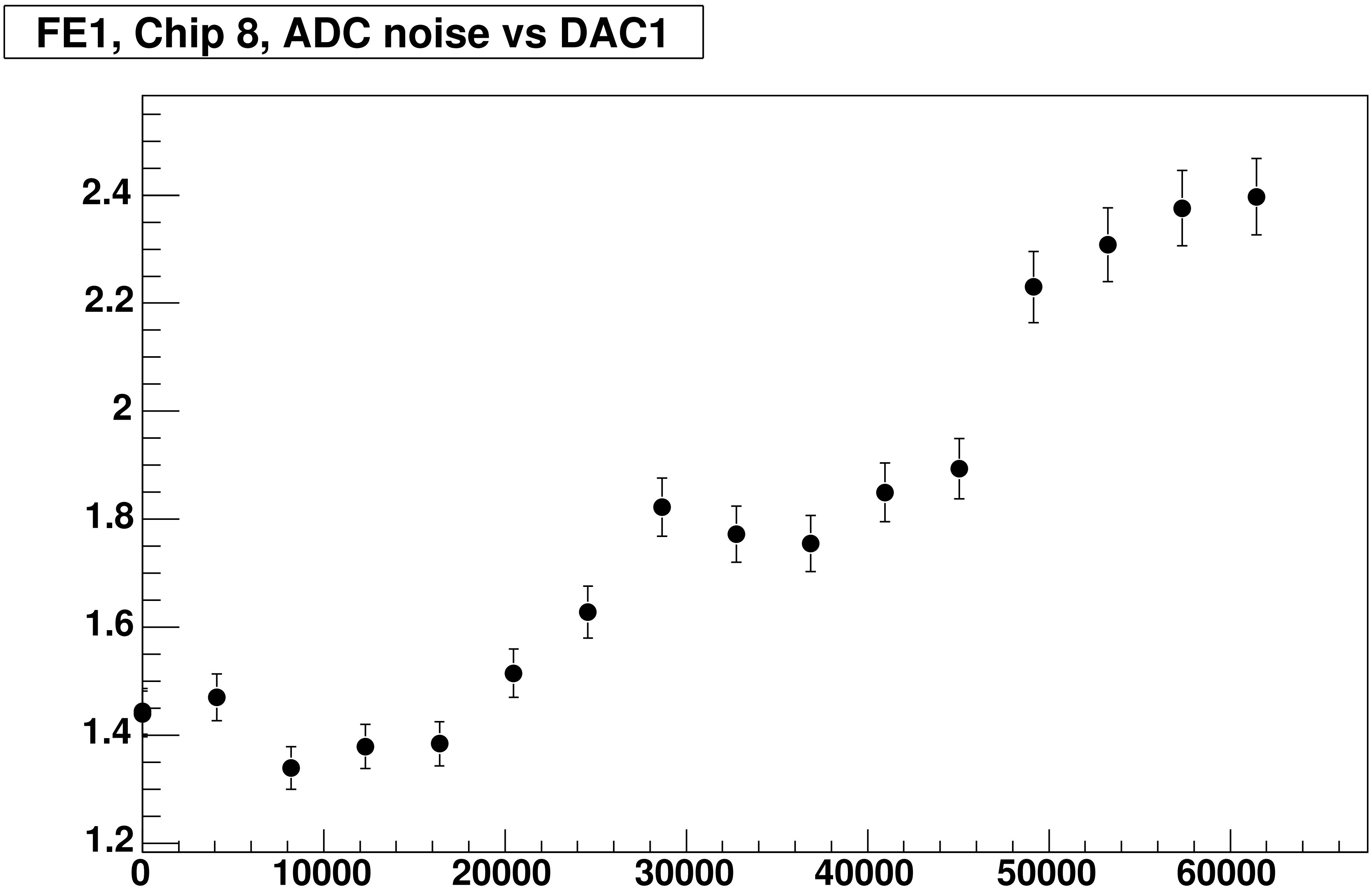
FE1, Chip 8, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

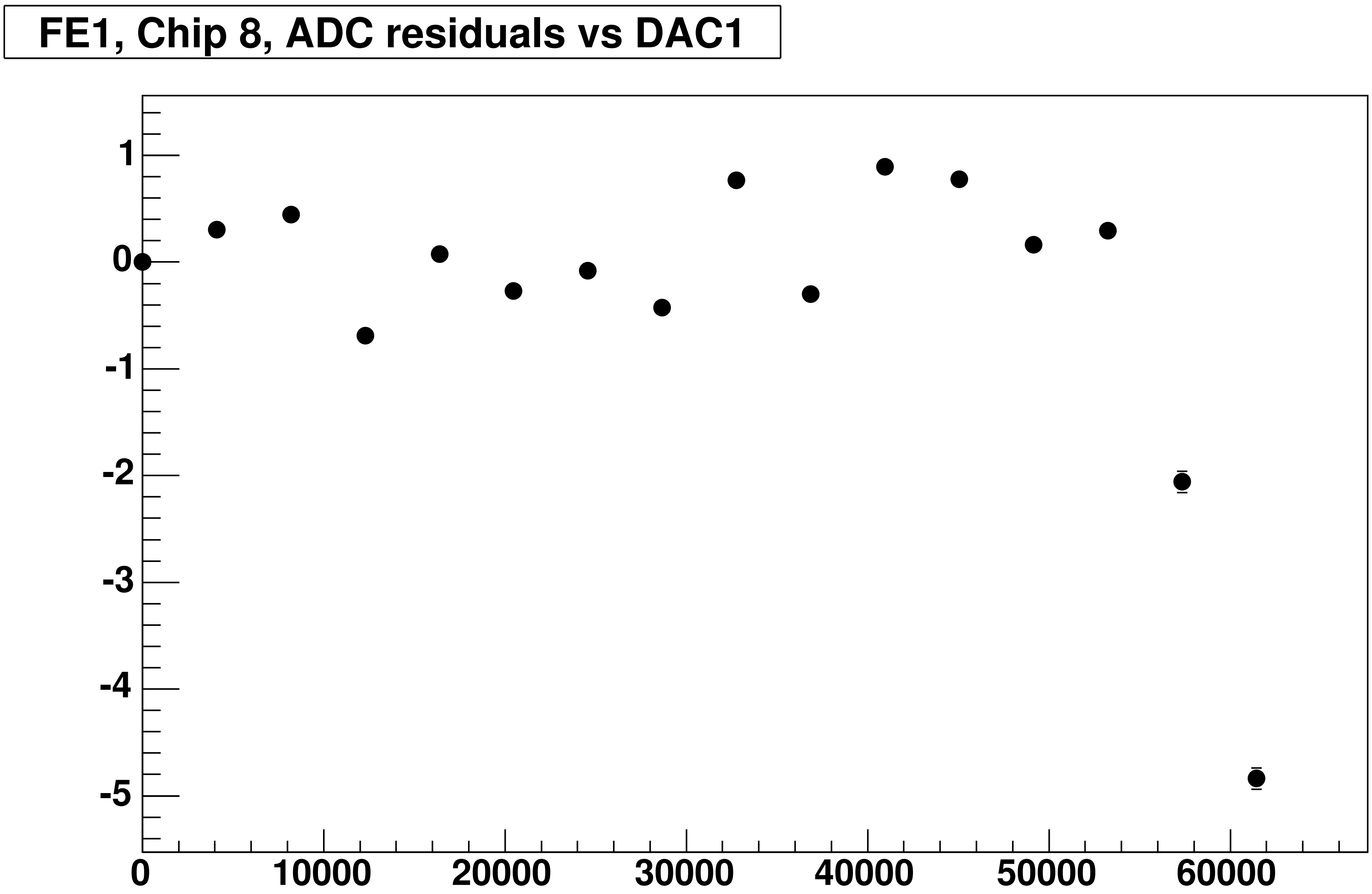
FE1, Chip 8, ADC residuals vs DAC0

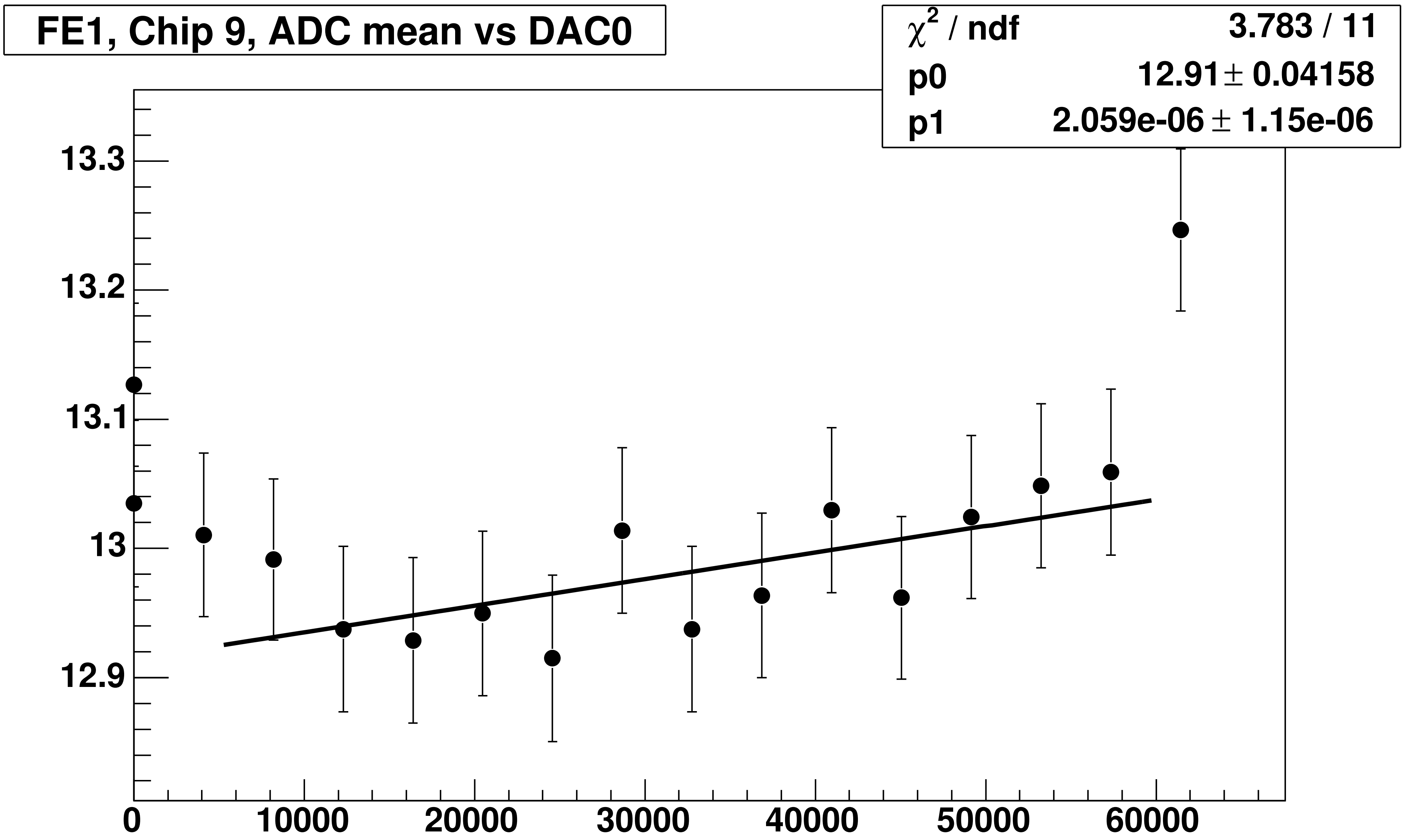


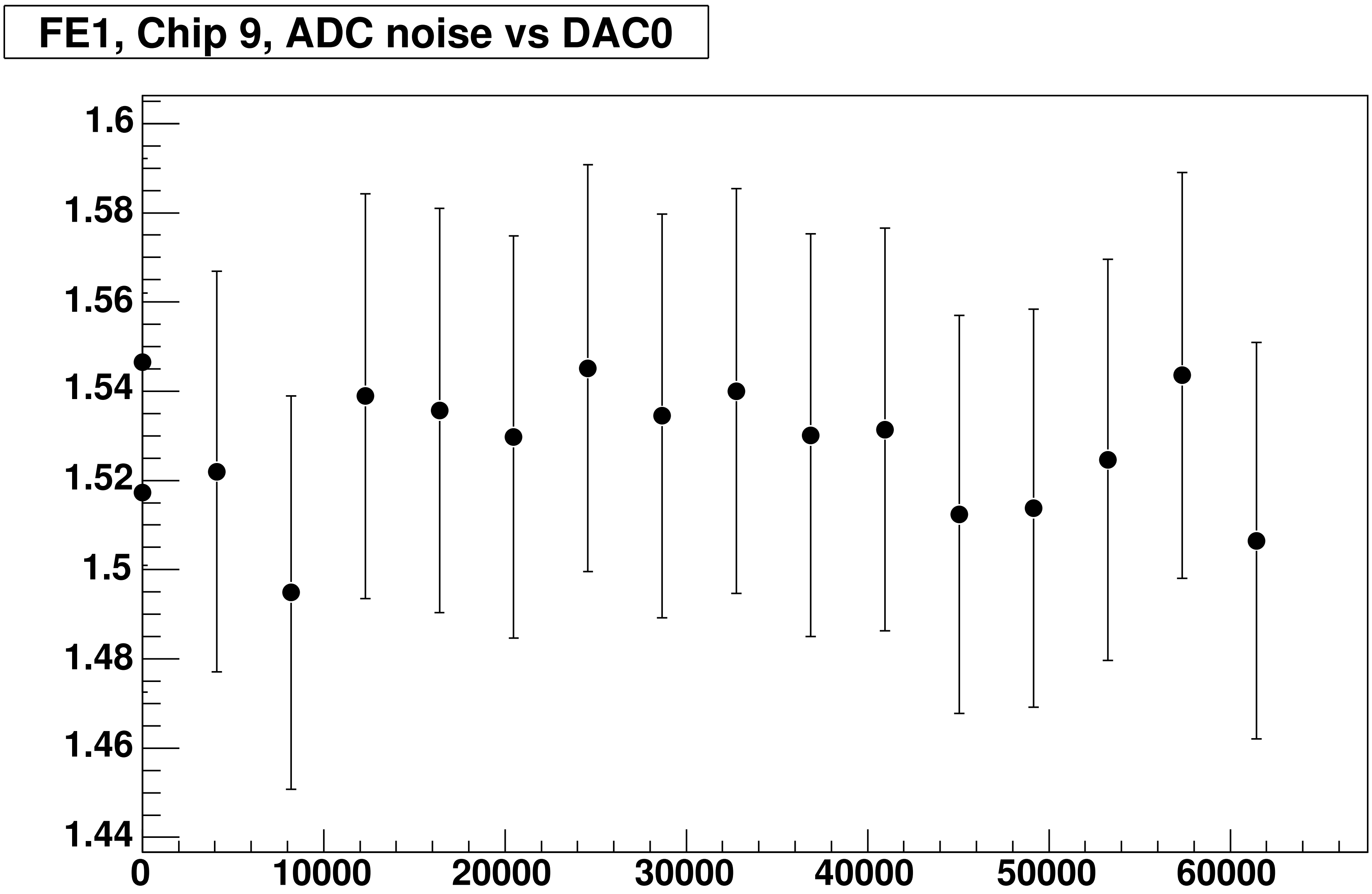


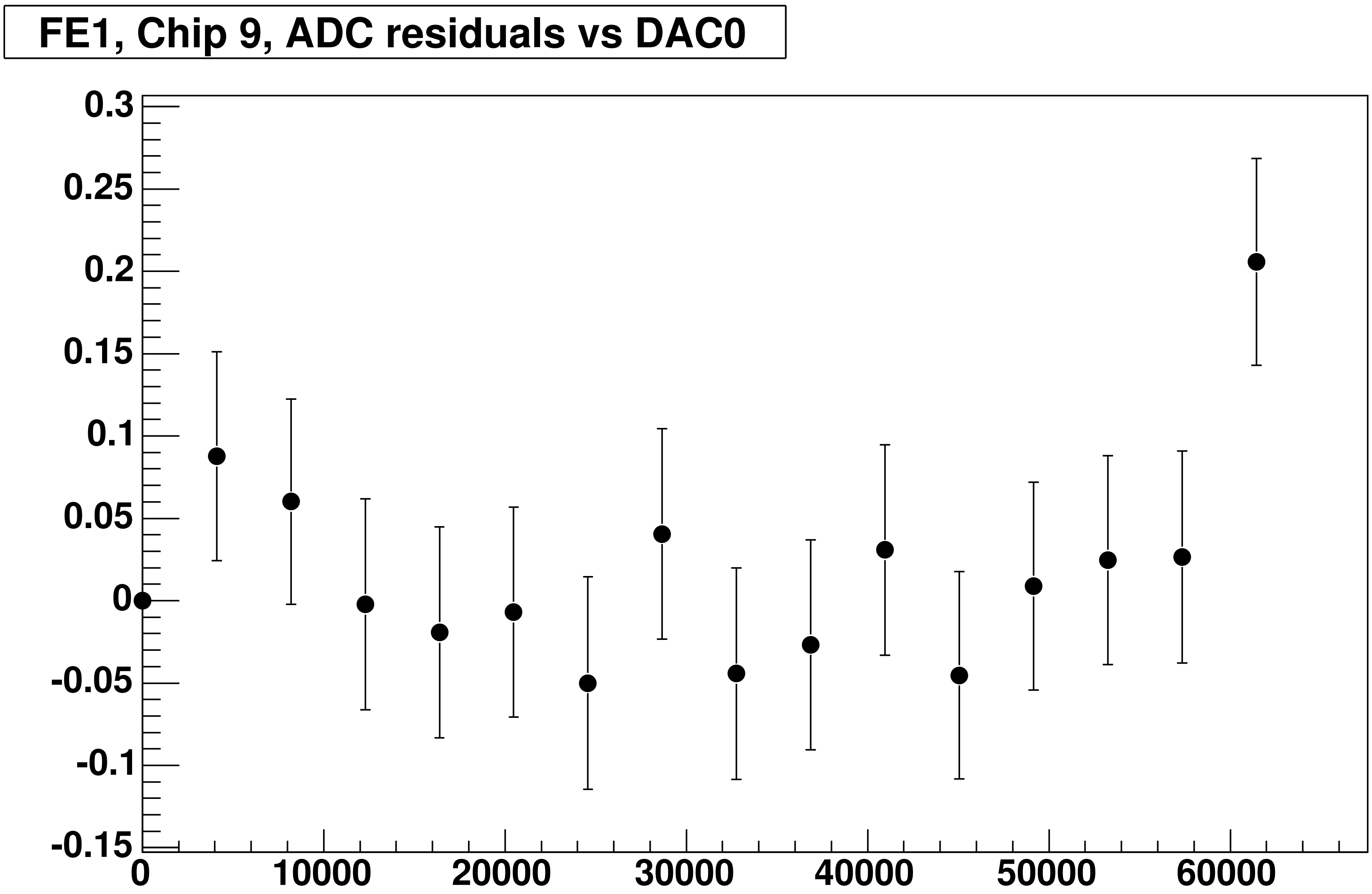
FE1, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1060 / 11
p0 9.941 ± 0.04159
p1 0.4508 ± 1.337e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

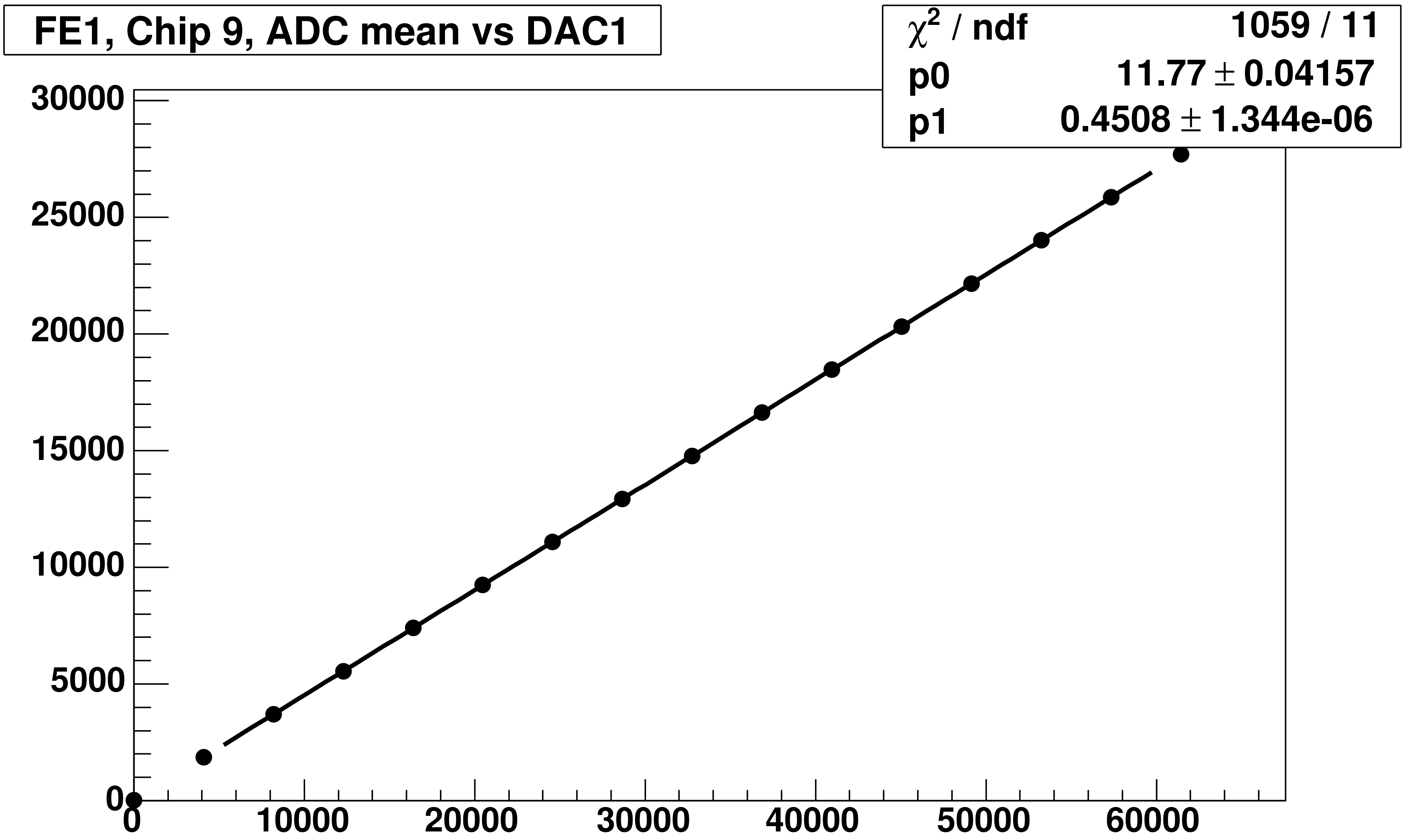

FE1, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE1, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

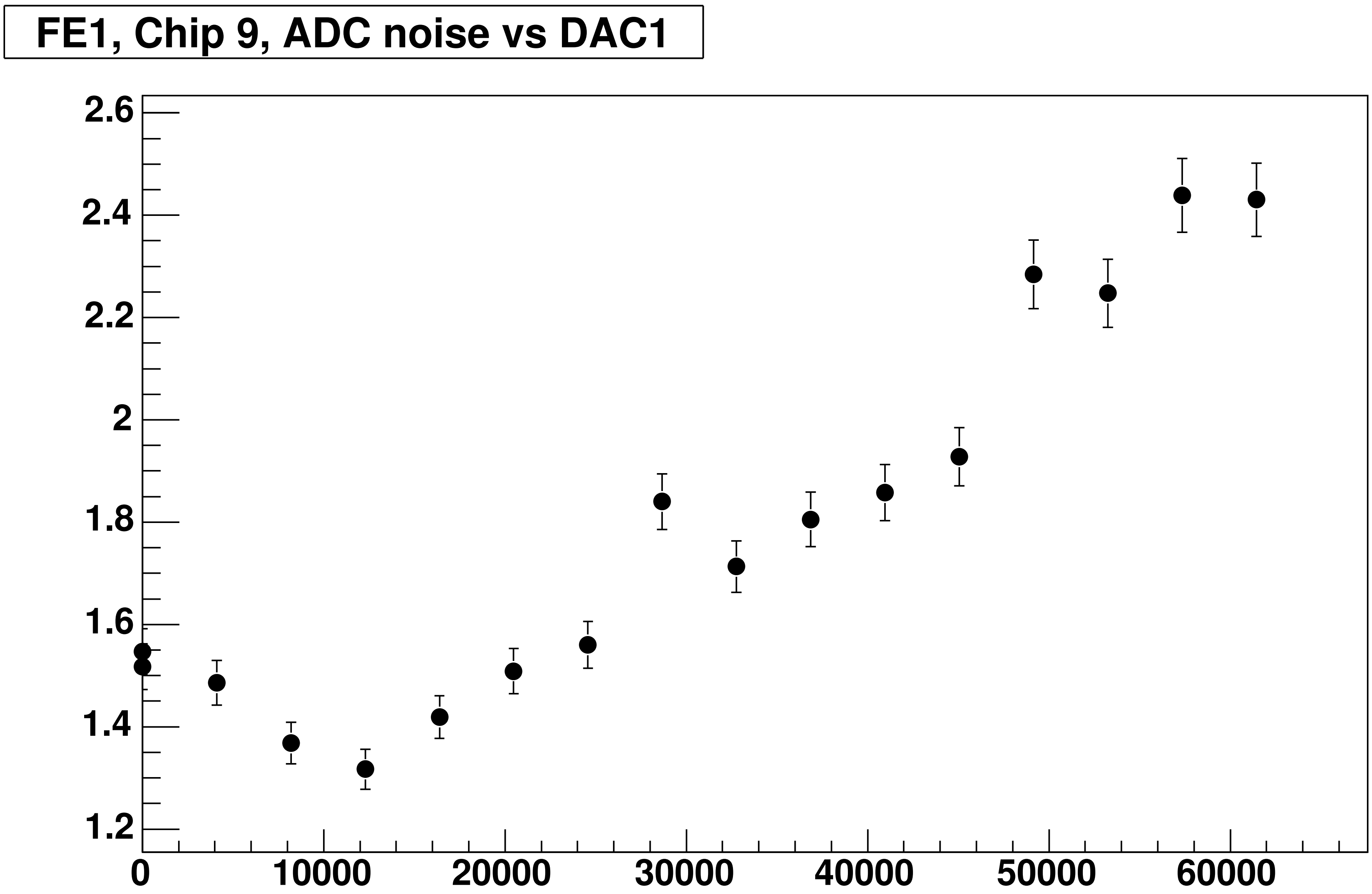

FE1, Chip 9, ADC mean vs DAC0
χ² / ndf 3.783 / 11
p0 12.91 ± 0.04158
p1 2.059e-06 ± 1.15e-06
13.3
13.2
13.1
13
12.9
0
10000
20000
30000
40000
50000
60000

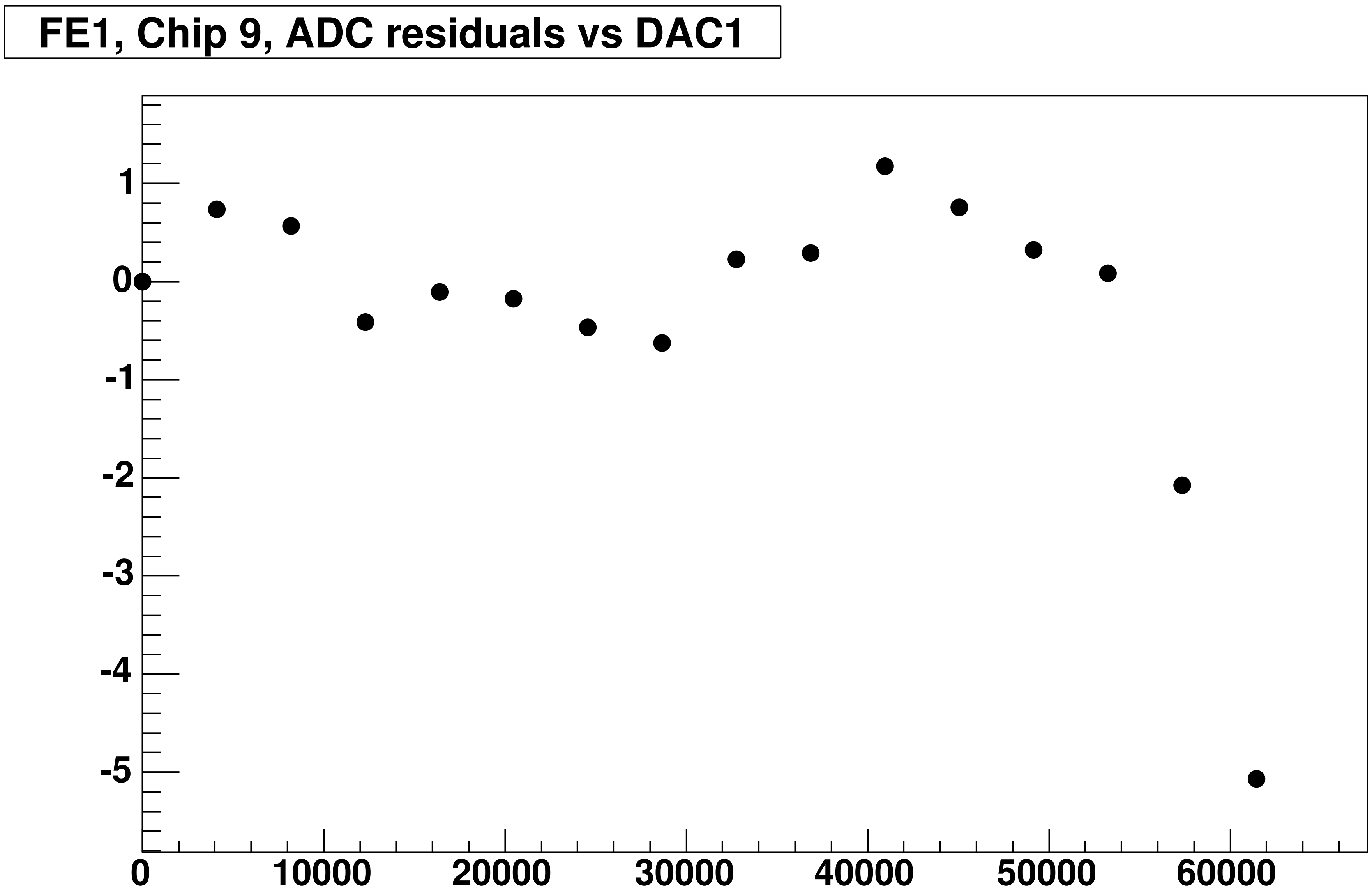

FE1, Chip 9, ADC noise vs DAC0
1.6
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
0
10000
20000
30000
40000
50000
60000

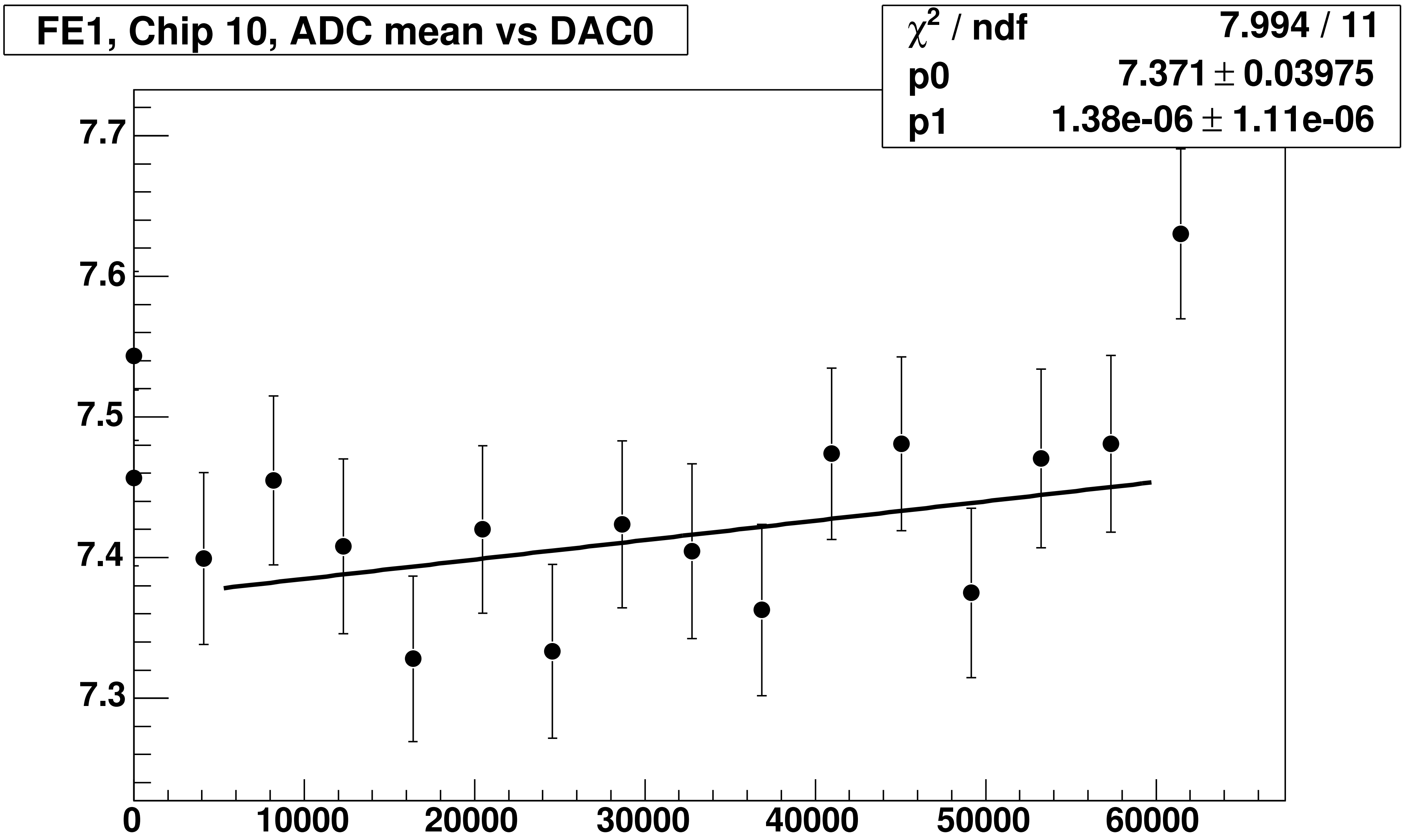

FE1, Chip 9, ADC residuals vs DAC0
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



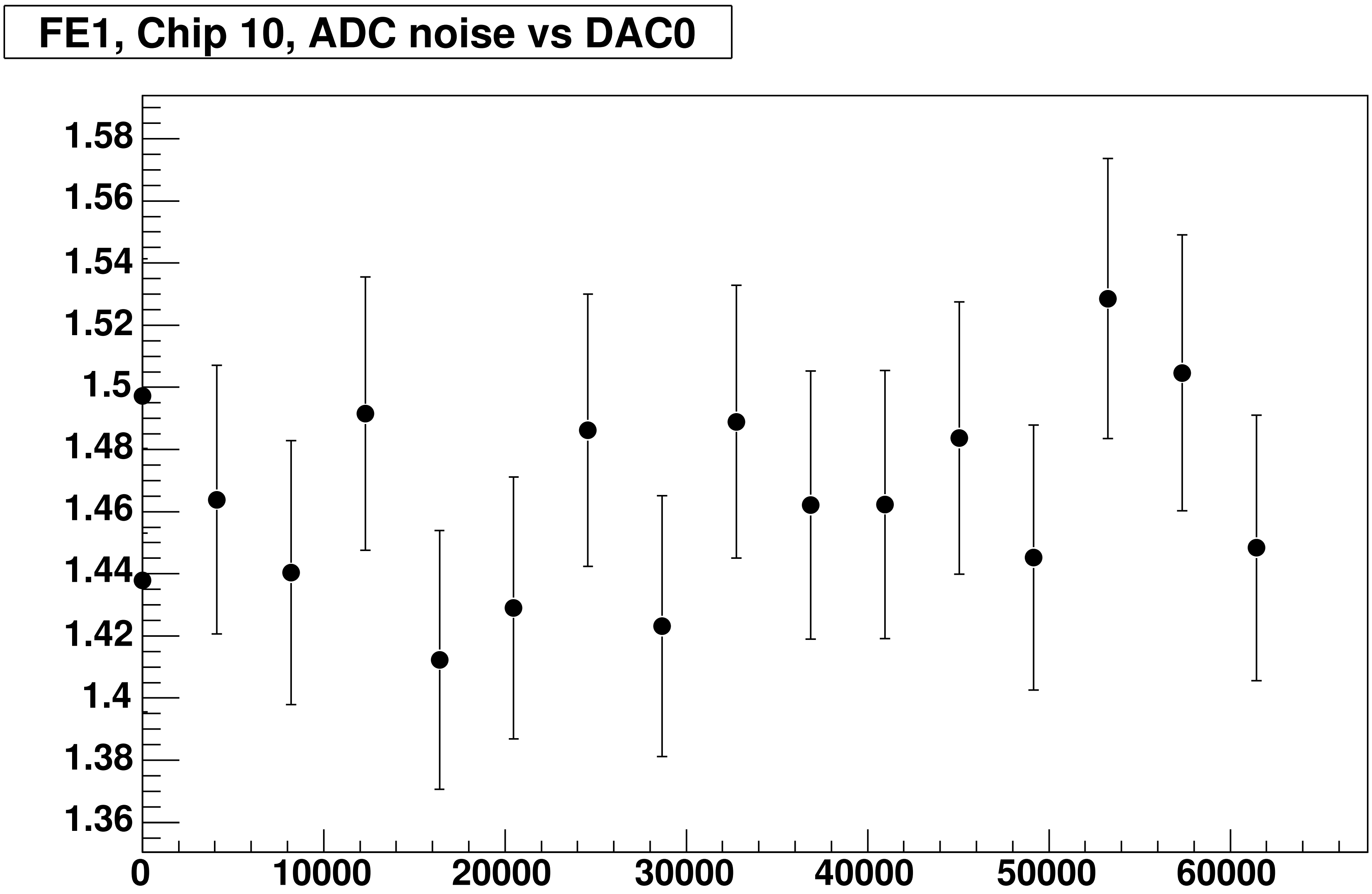
FE1, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1059 / 11
p0 11.77 ± 0.04157
p1 0.4508 ± 1.344e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

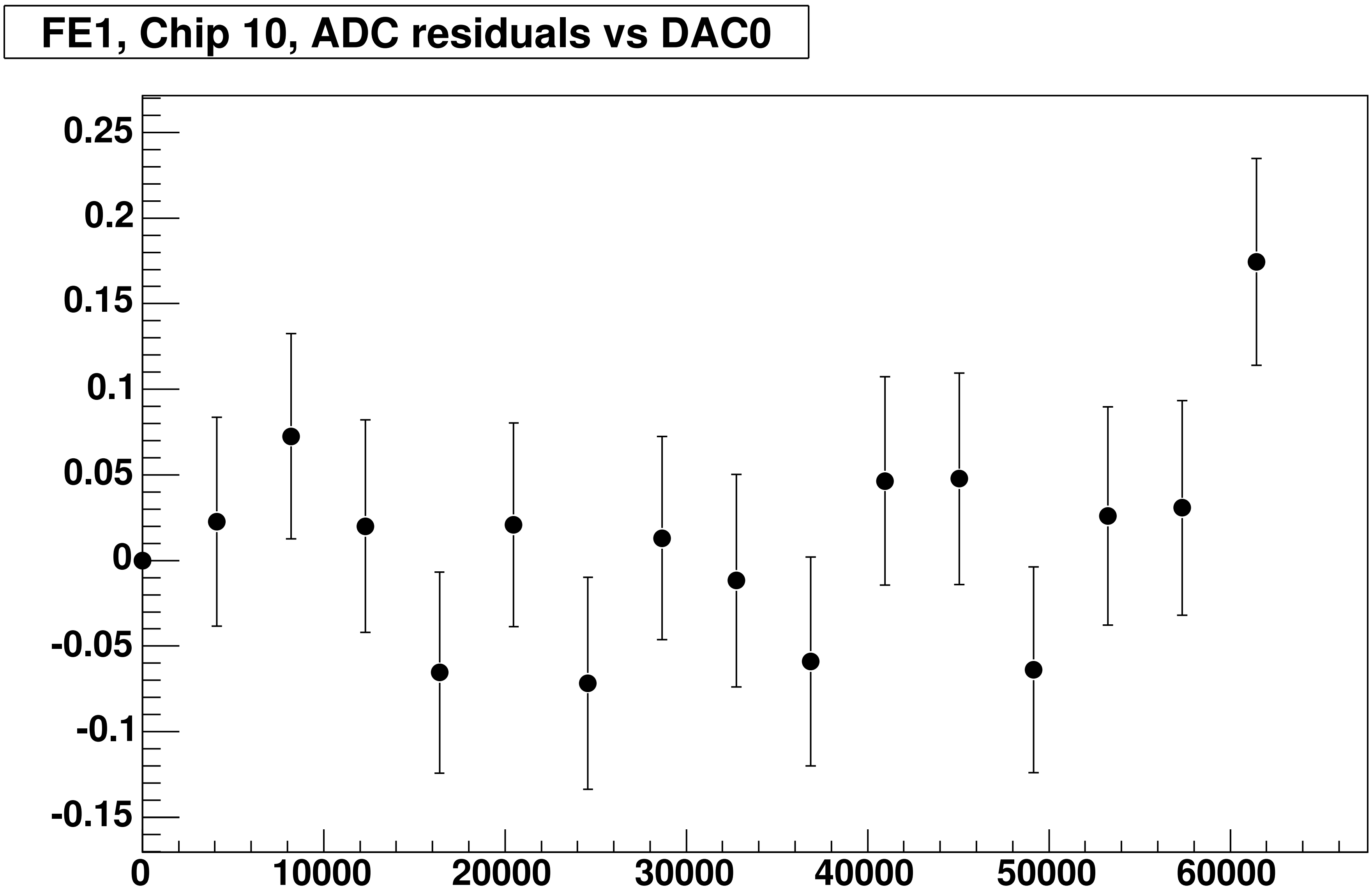

FE1, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



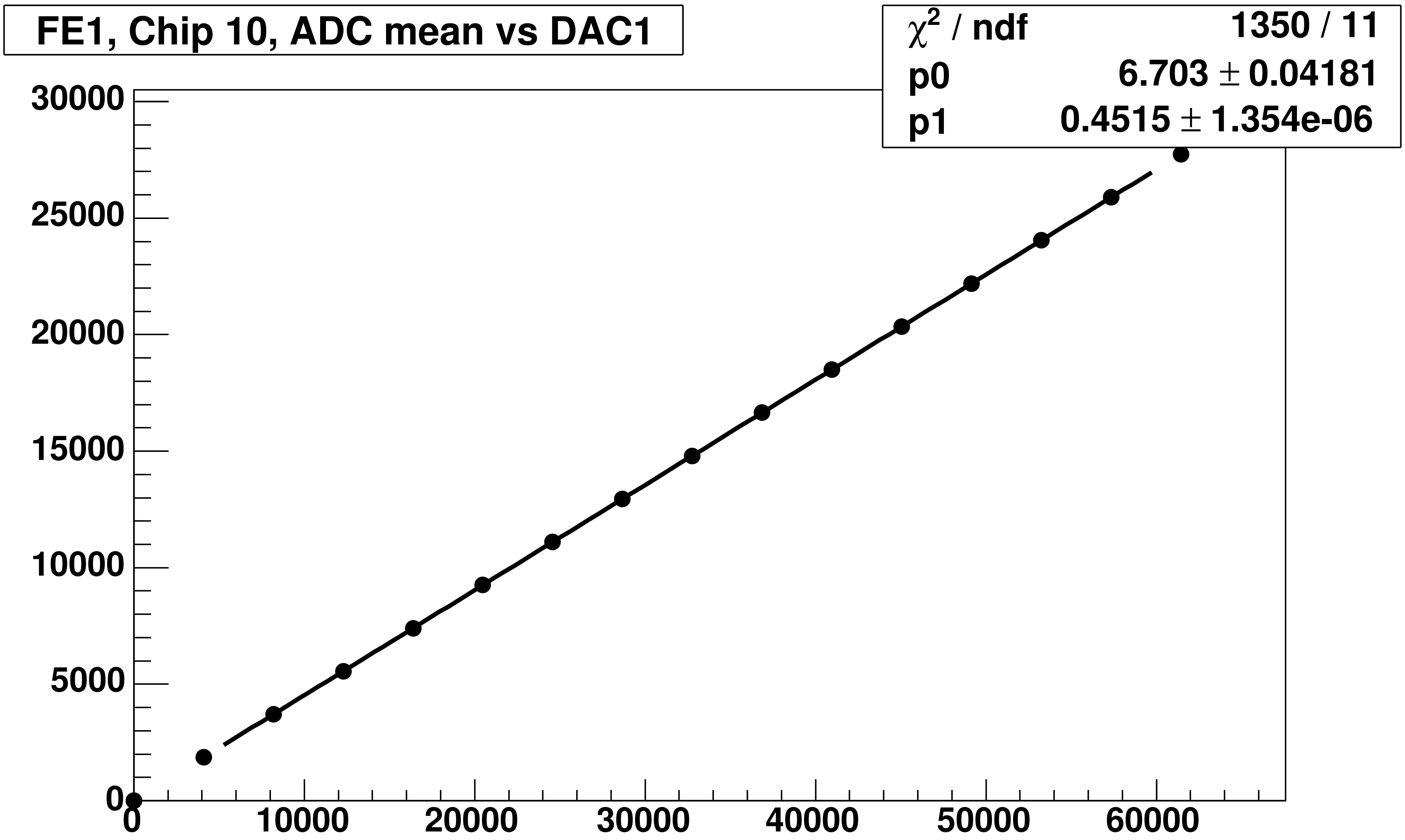
FE1, Chip 10, ADC mean vs DAC0
χ² / ndf 7.994 / 11
p0 7.371 ± 0.03975
p1 1.38e-06 ± 1.11e-06
7.7
7.6
7.5
7.4
7.3
0
10000
20000
30000
40000
50000
60000

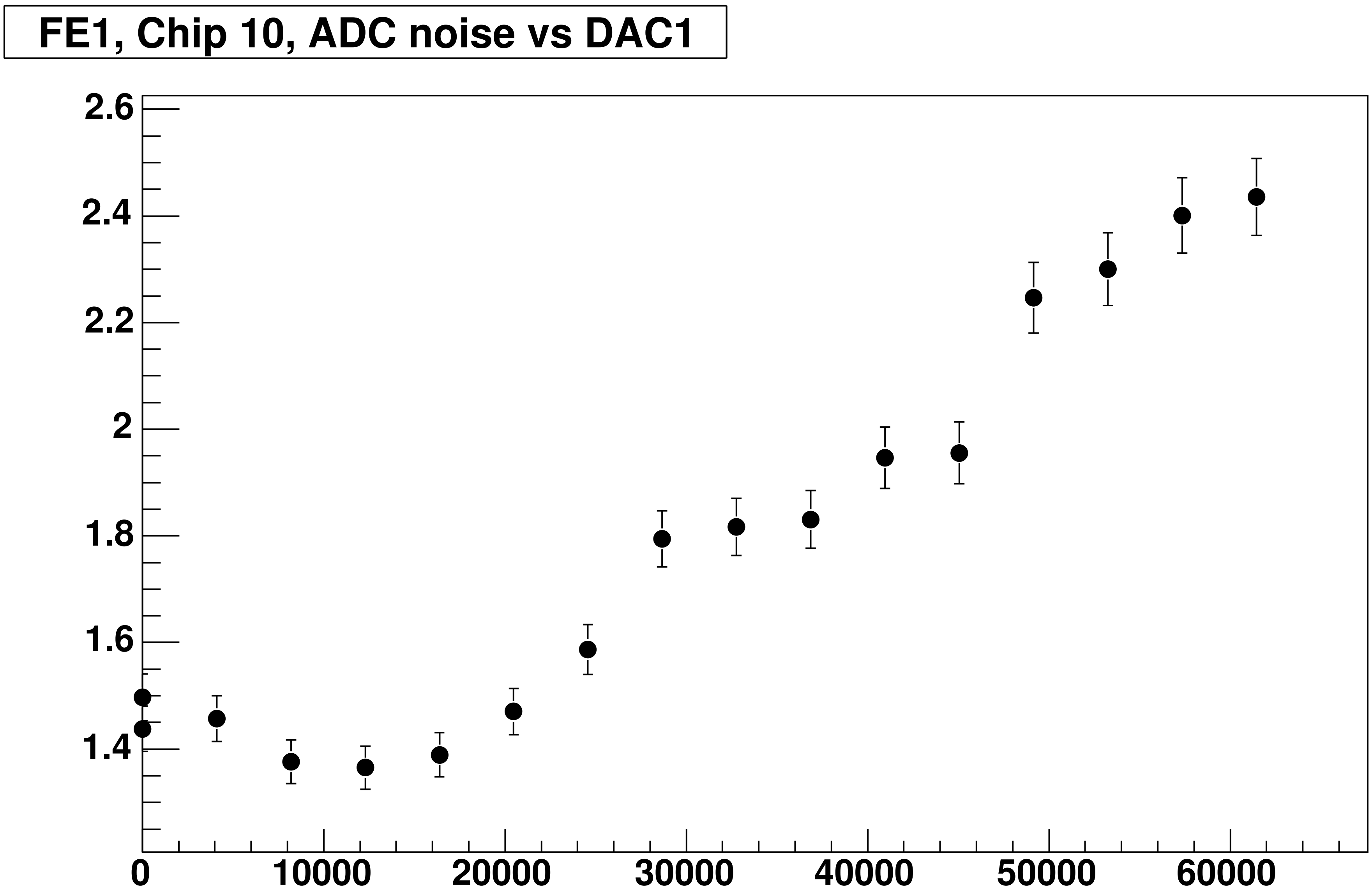


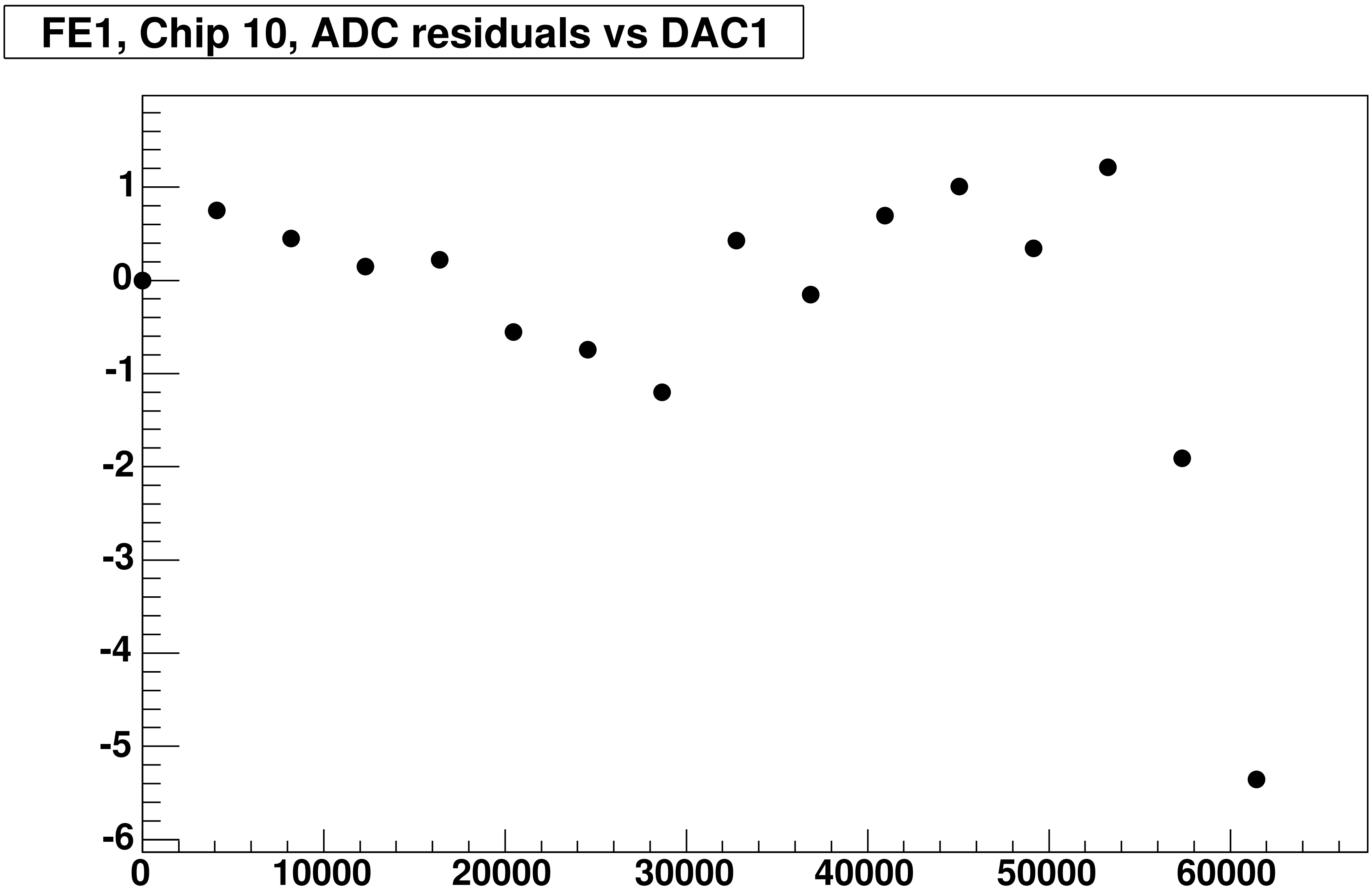
FE1, Chip 10, ADC noise vs DAC0
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
0
10000
20000
30000
40000
50000
60000

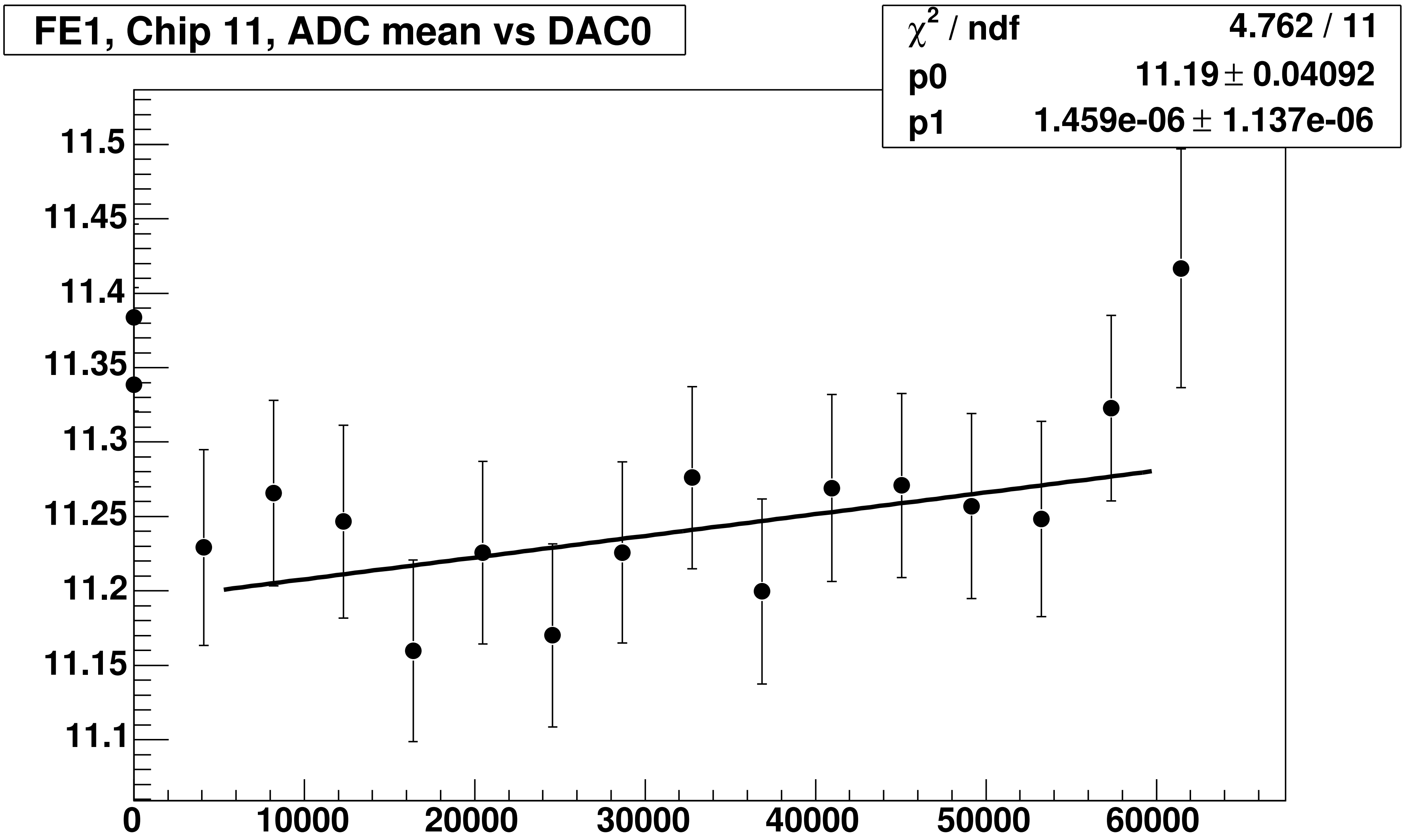


FE1, Chip 10, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

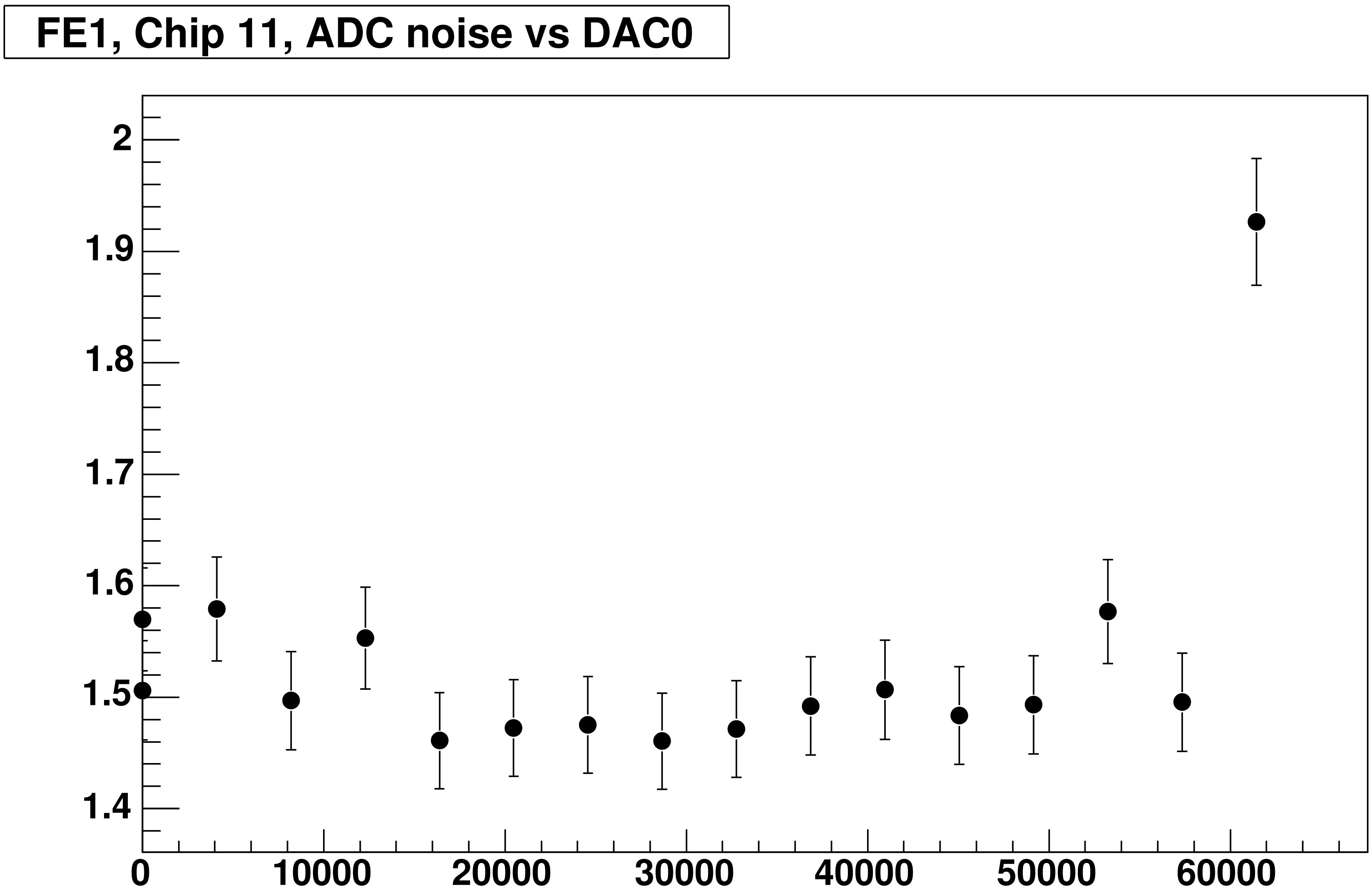

FE1, Chip 10, ADC mean vs DAC1
χ2 / ndf 1350 / 11
p0 6.703 ± 0.04181
p1 0.4515 ± 1.354e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

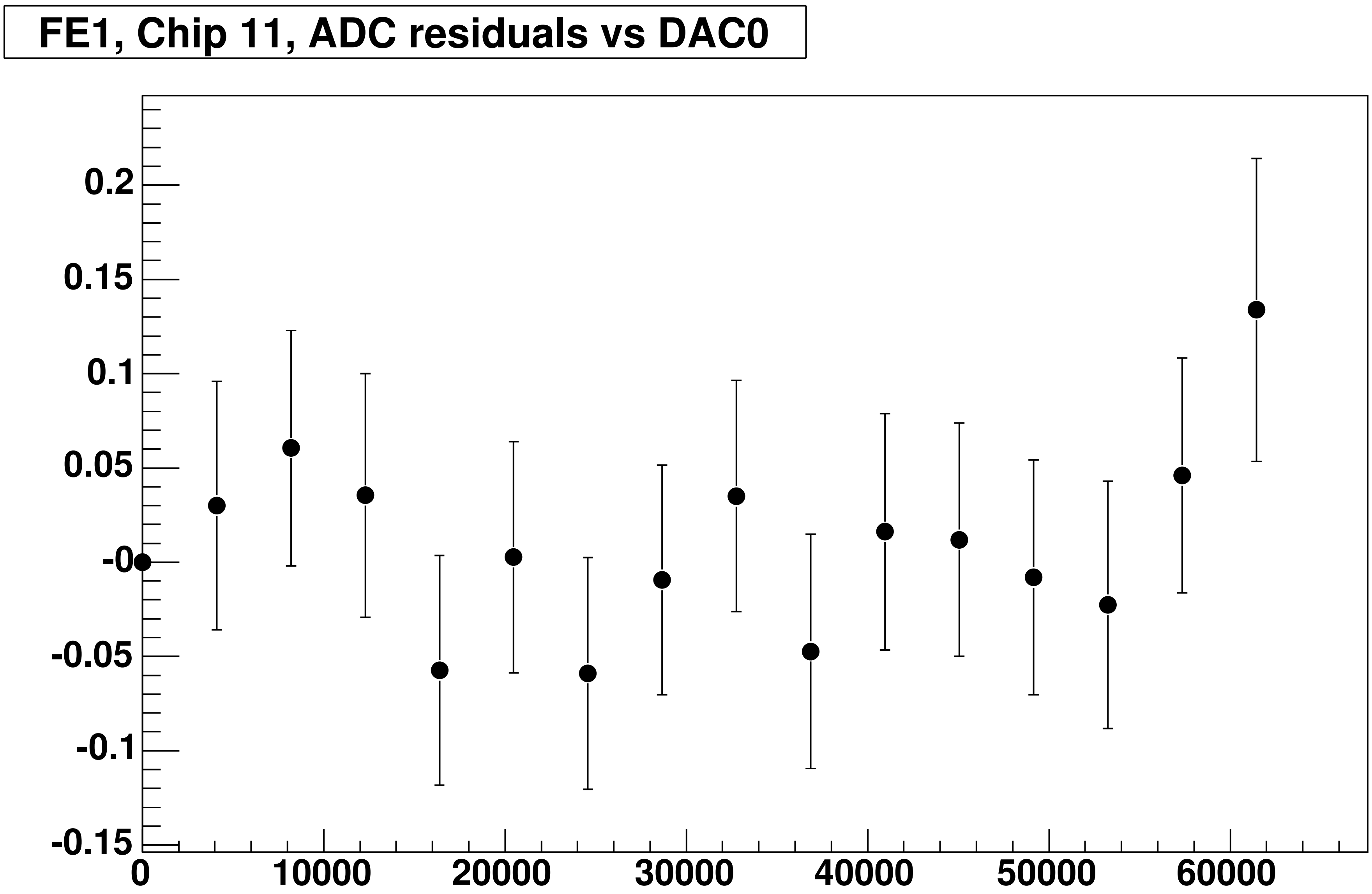

FE1, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

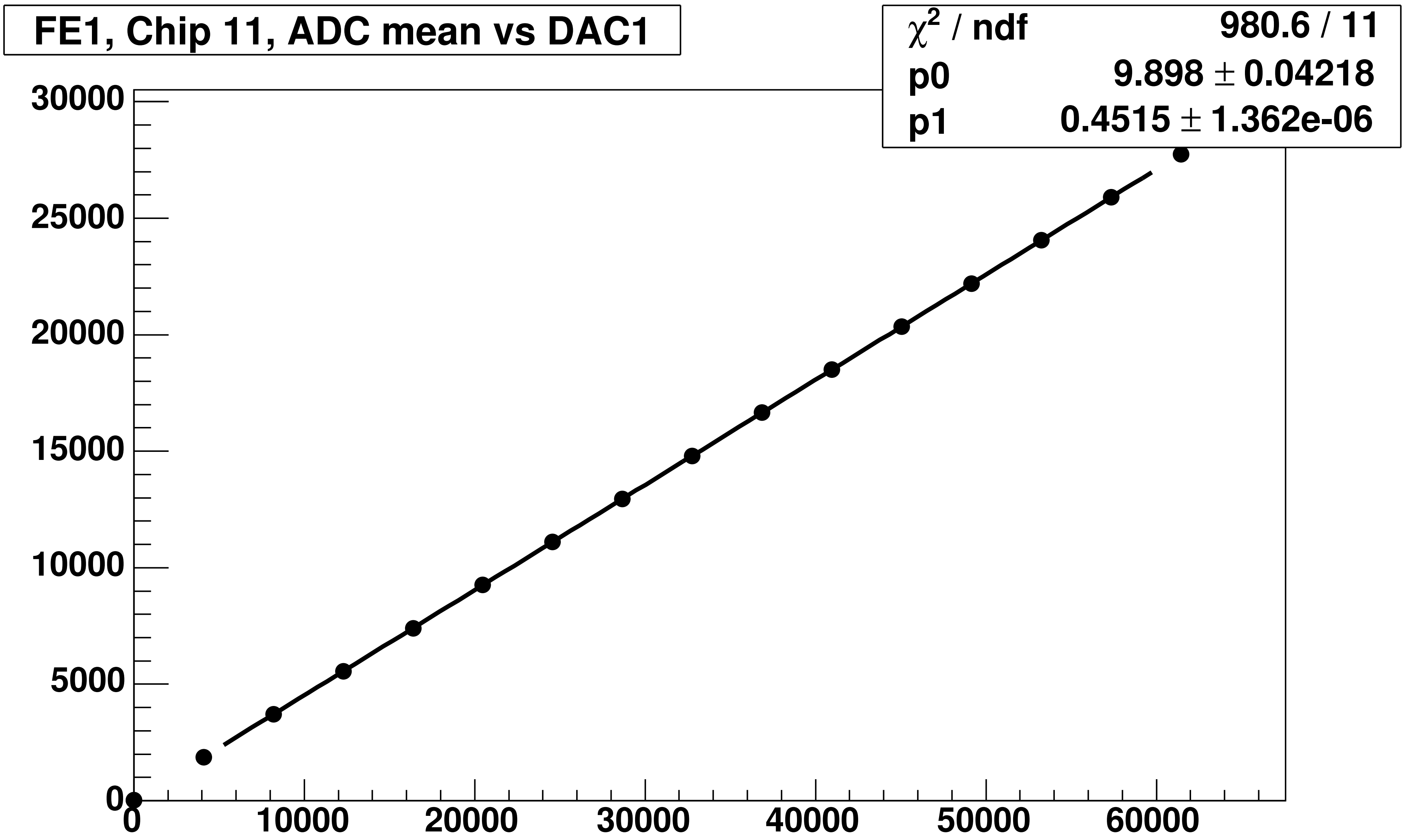


FE1, Chip 11, ADC mean vs DAC0
χ^2 / ndf 4.762 / 11
p0 11.19 ± 0.04092
p1 1.459e-06 ± 1.137e-06
11.1
11.15
11.2
11.25
11.3
11.35
11.4
11.45
11.5
0
10000
20000
30000
40000
50000
60000

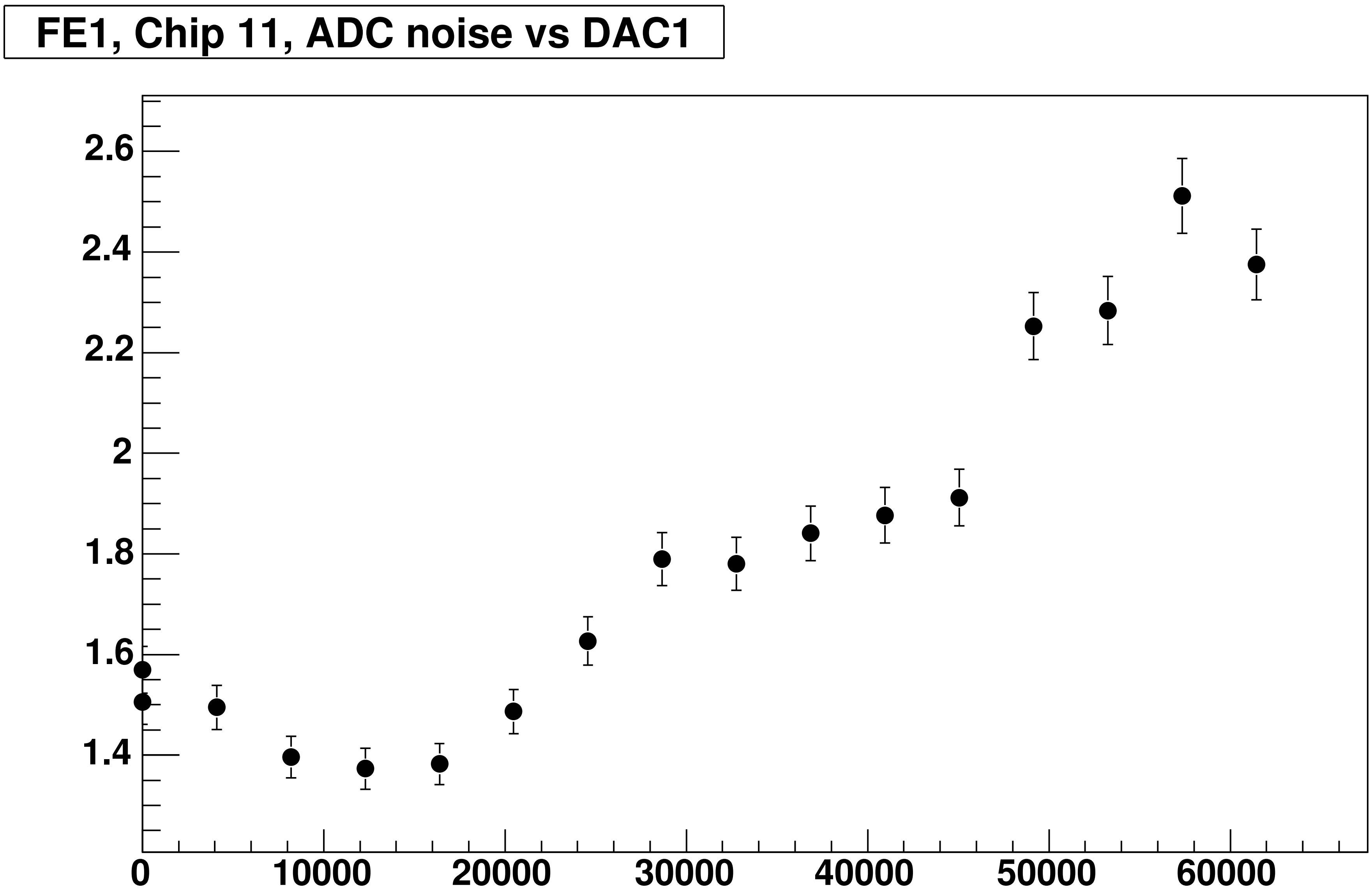


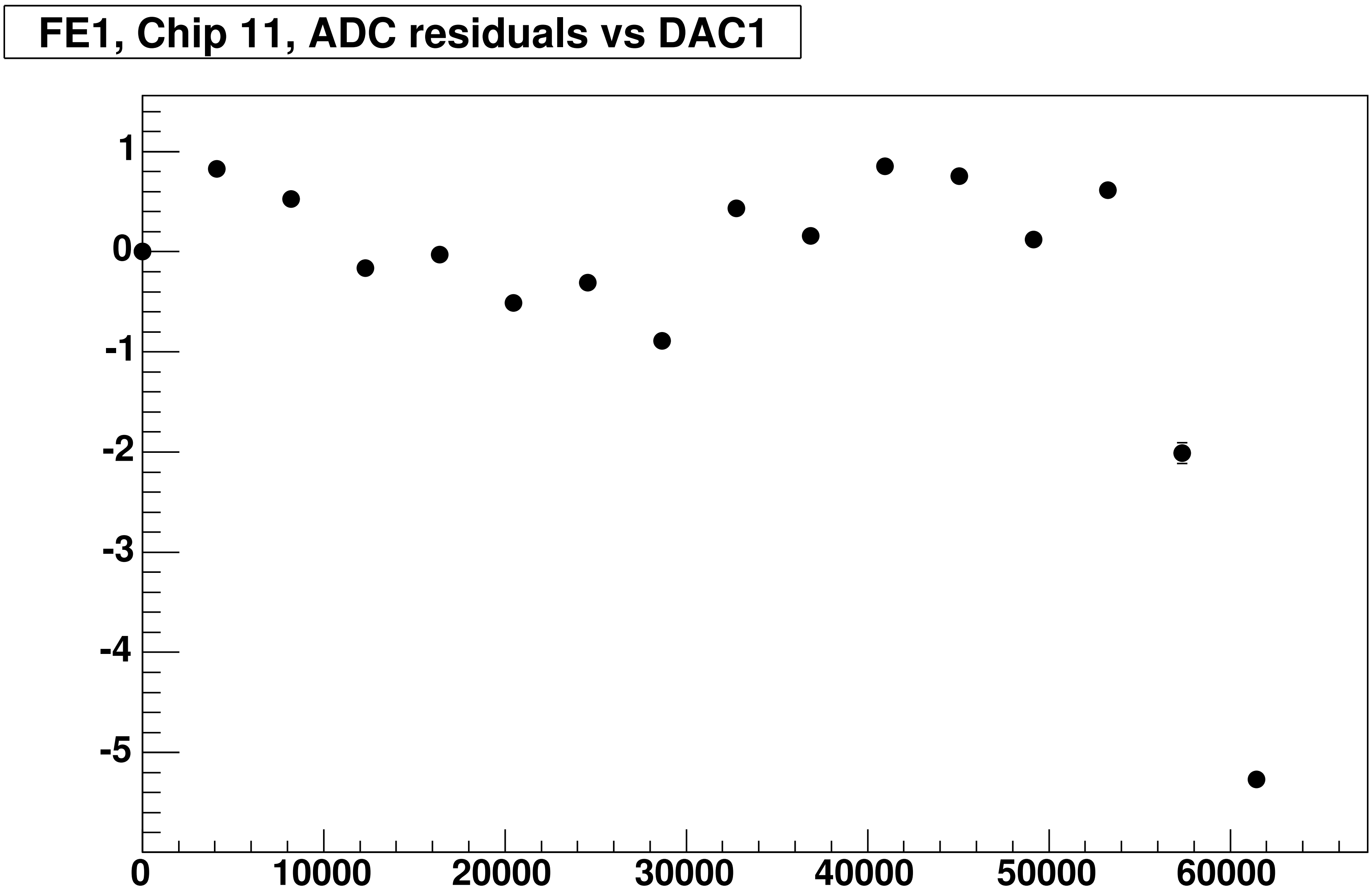
FE1, Chip 11, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000


FE1, Chip 11, 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

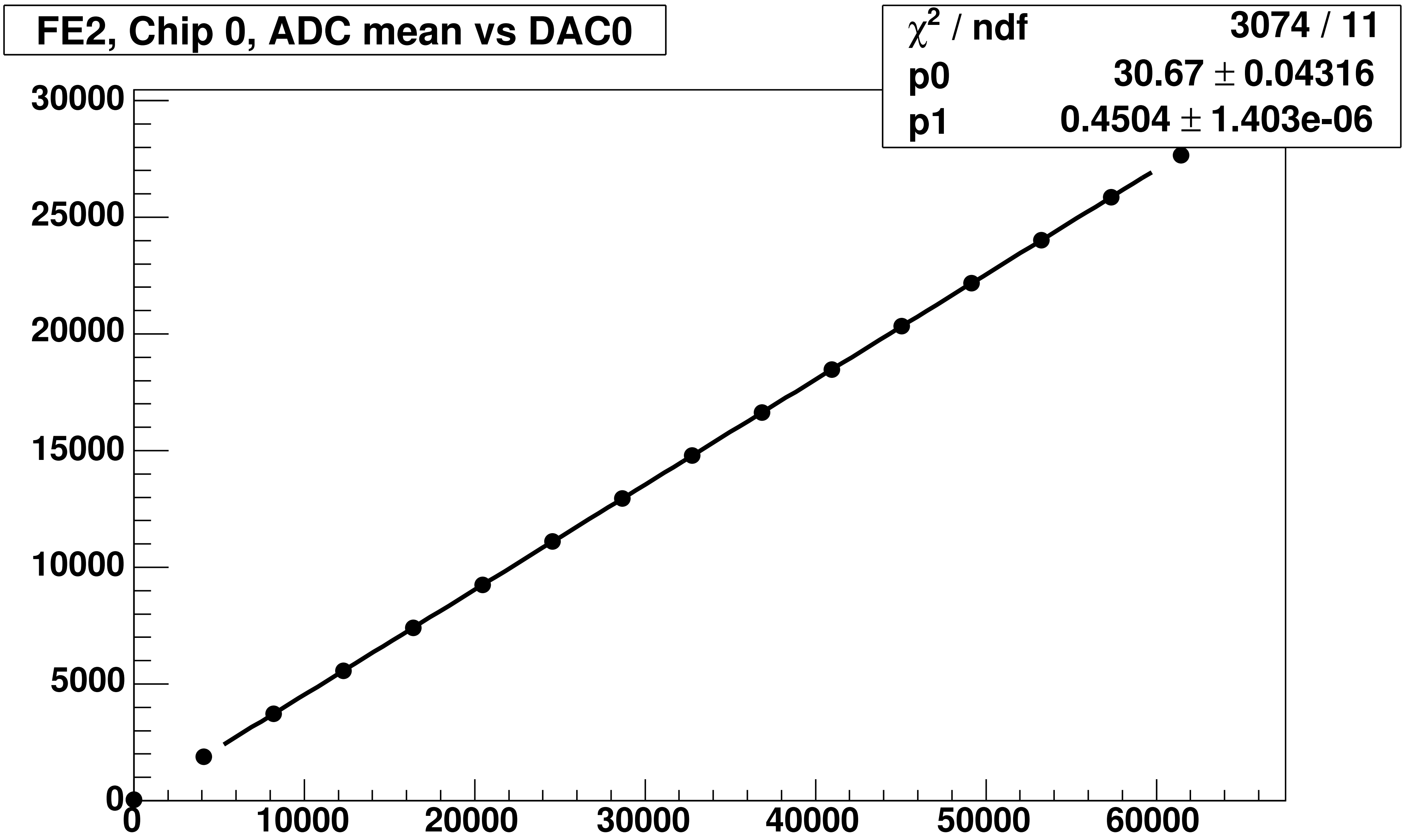


FE1, Chip 11, ADC mean vs DAC1
χ2 / ndf 980.6 / 11
p0 9.898 ± 0.04218
p1 0.4515 ± 1.362e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

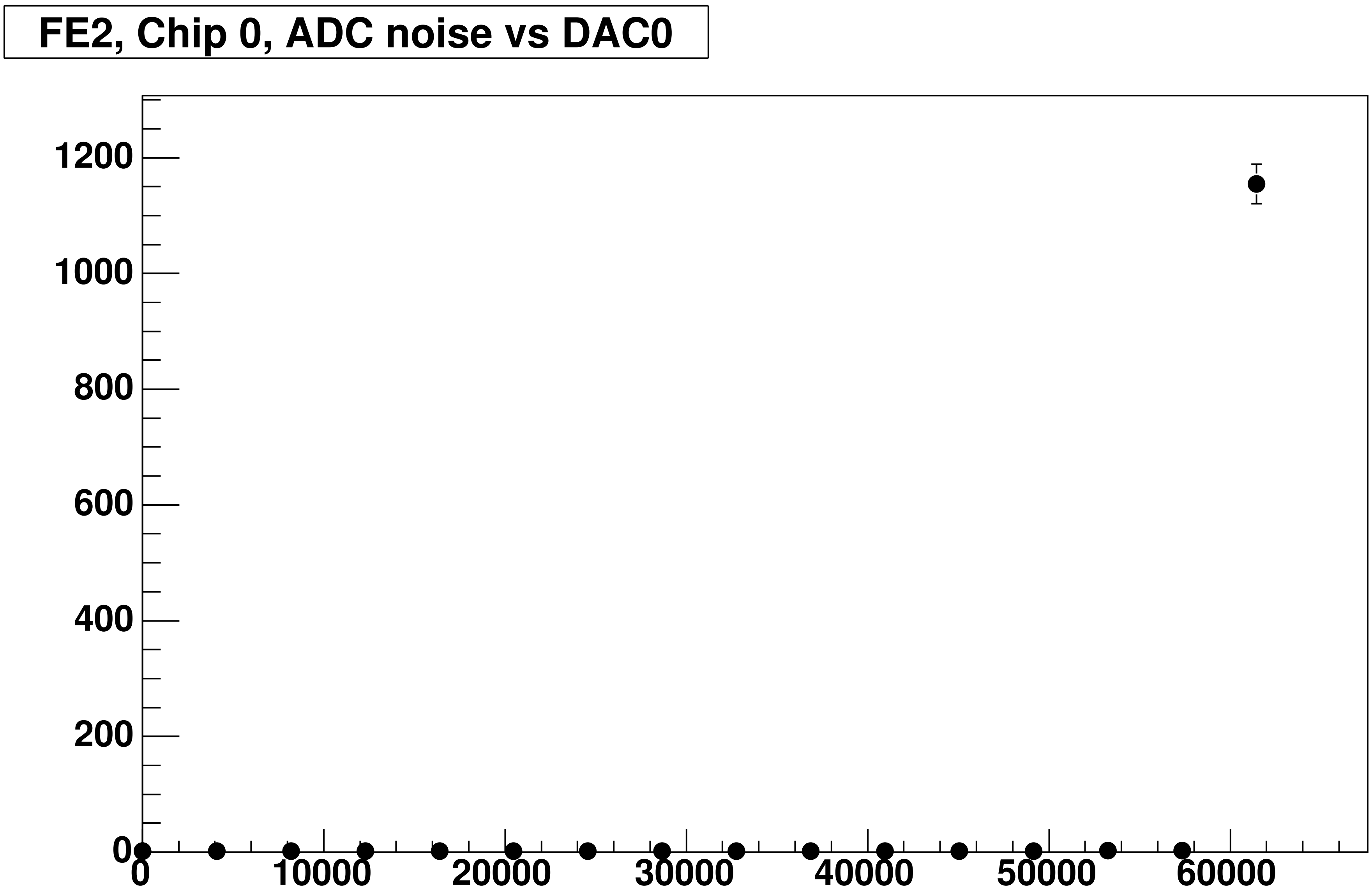

FE1, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



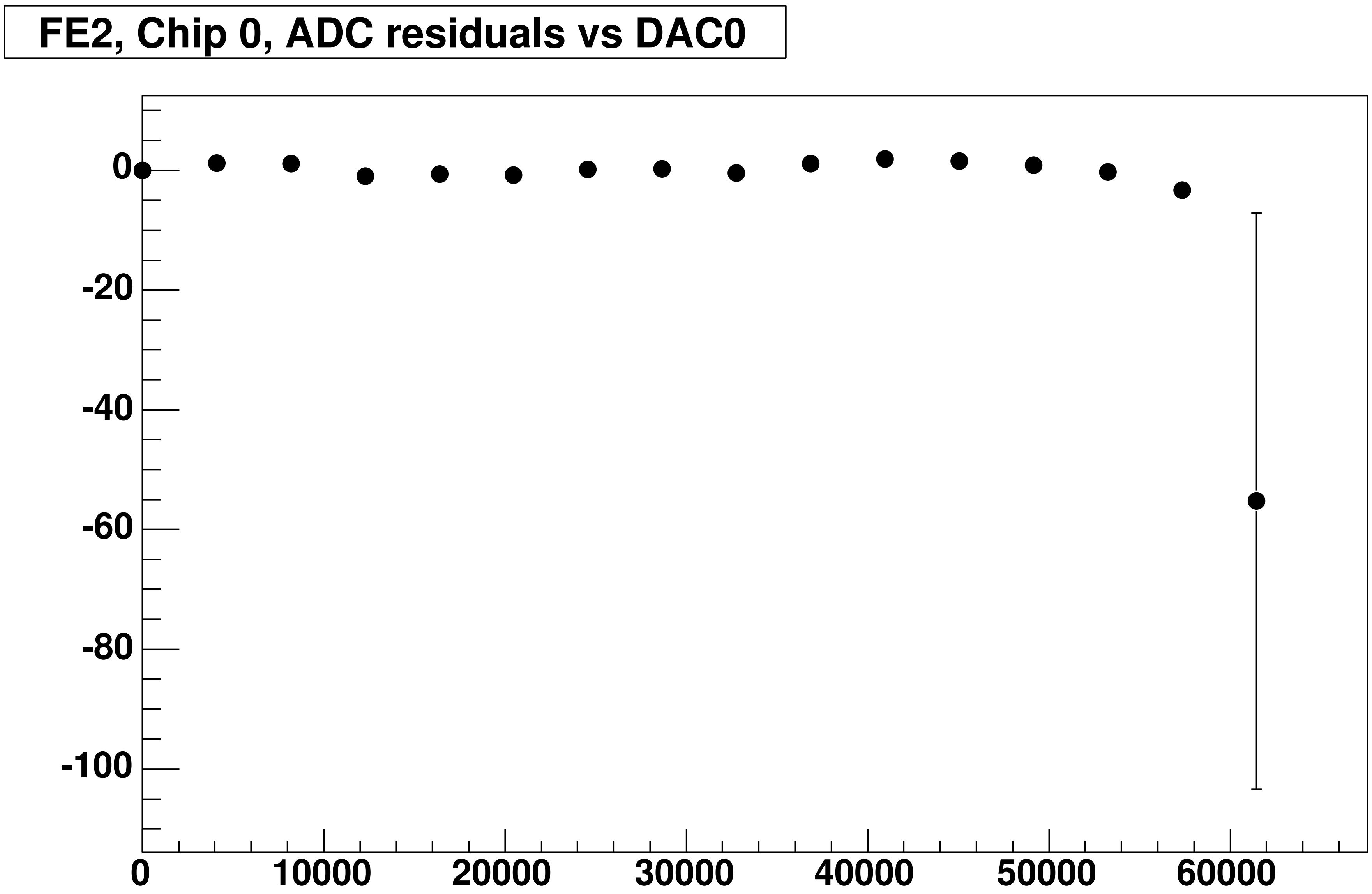
FE1, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

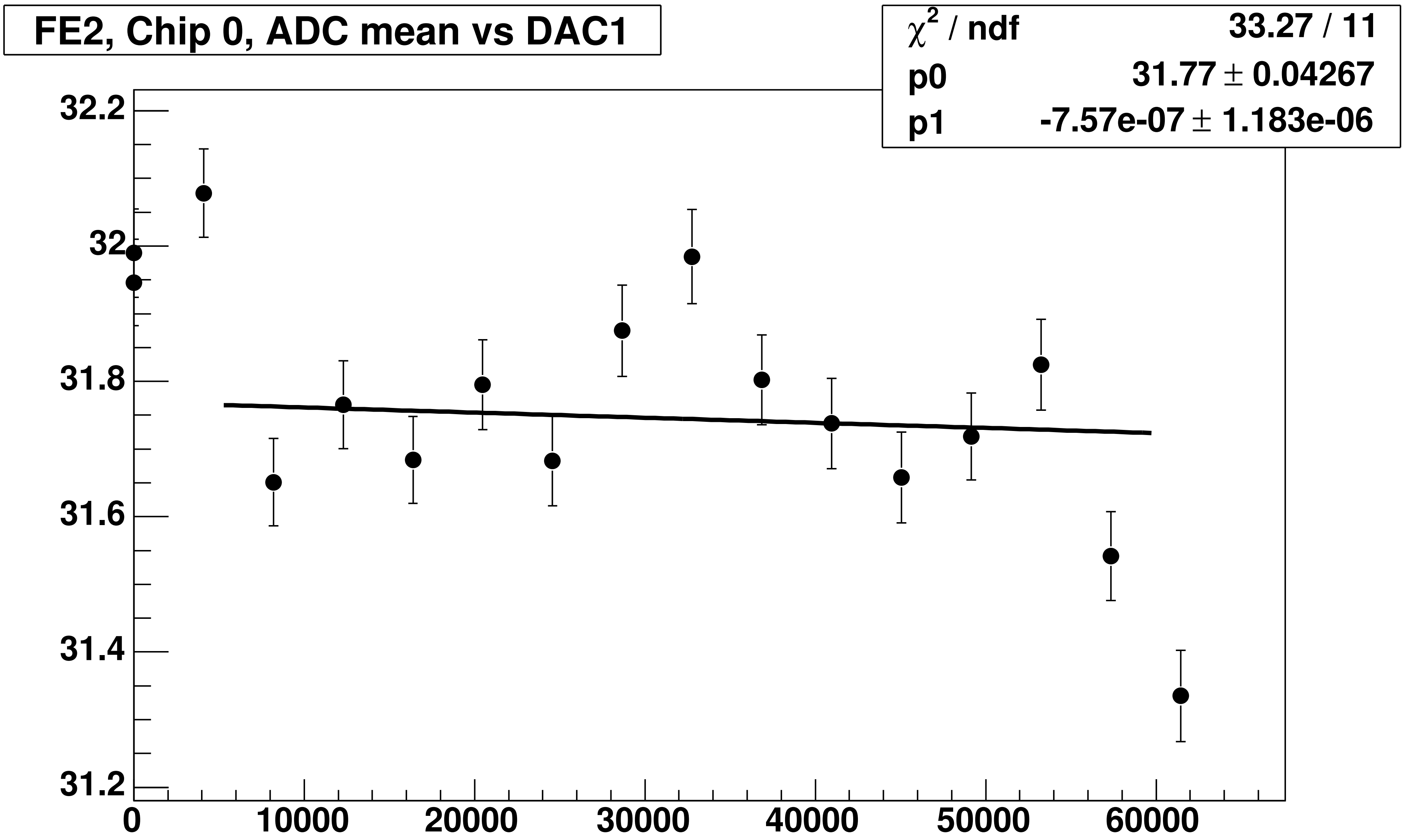


FE2, Chip 0, ADC mean vs DAC0
χ^2 / ndf 3074 / 11
p0 30.67 ± 0.04316
p1 0.4504 ± 1.403e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

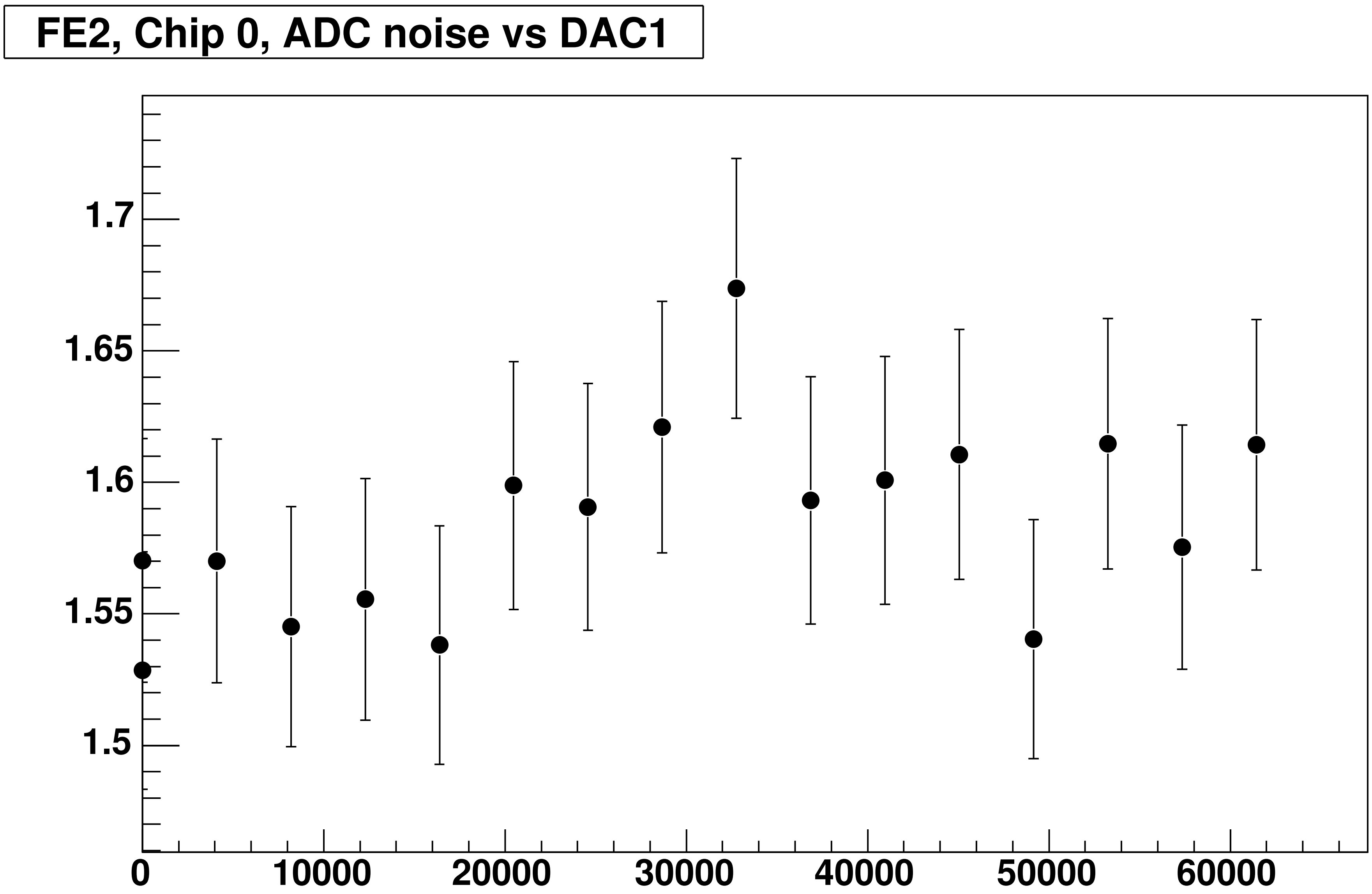


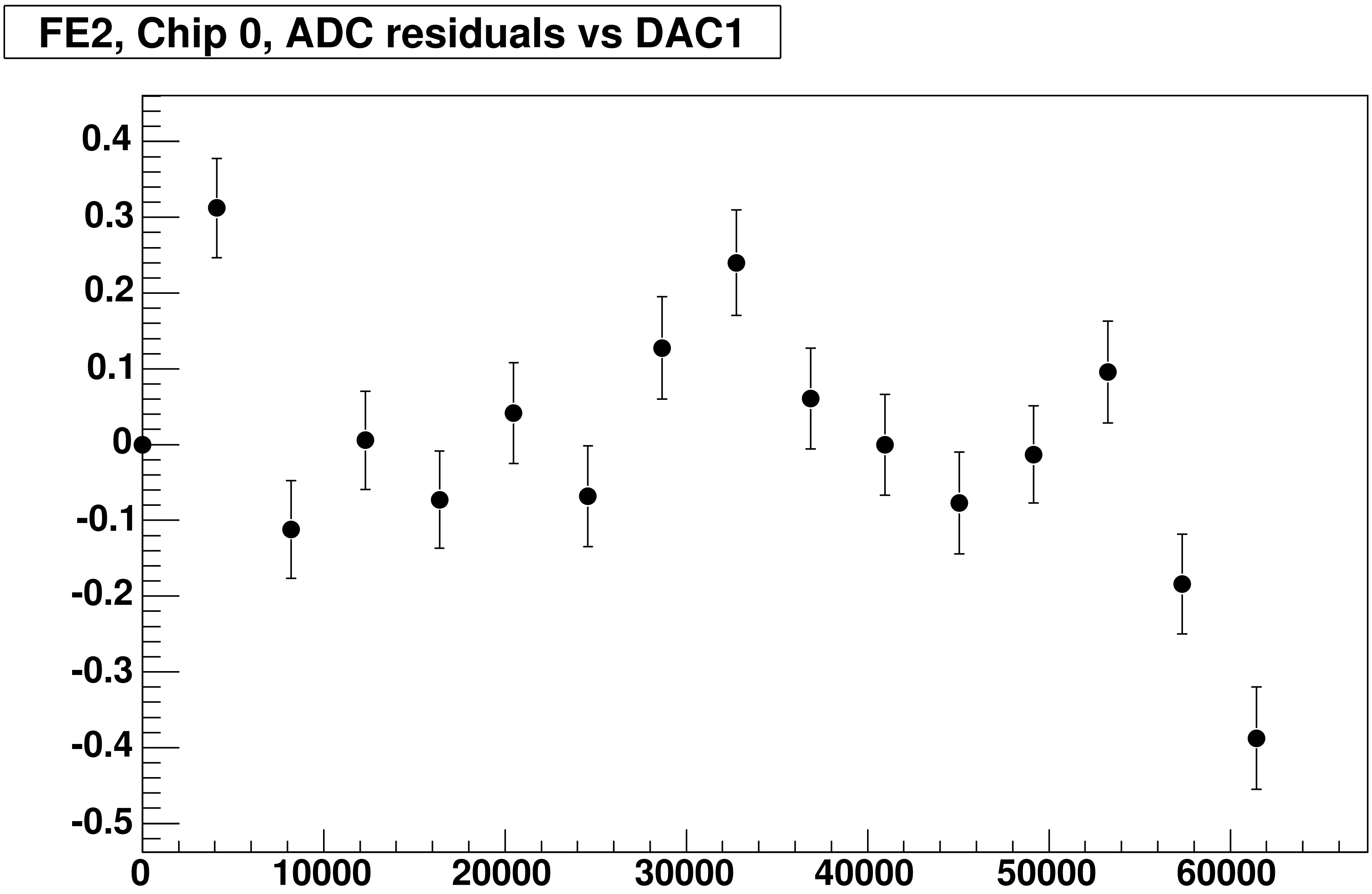
FE2, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

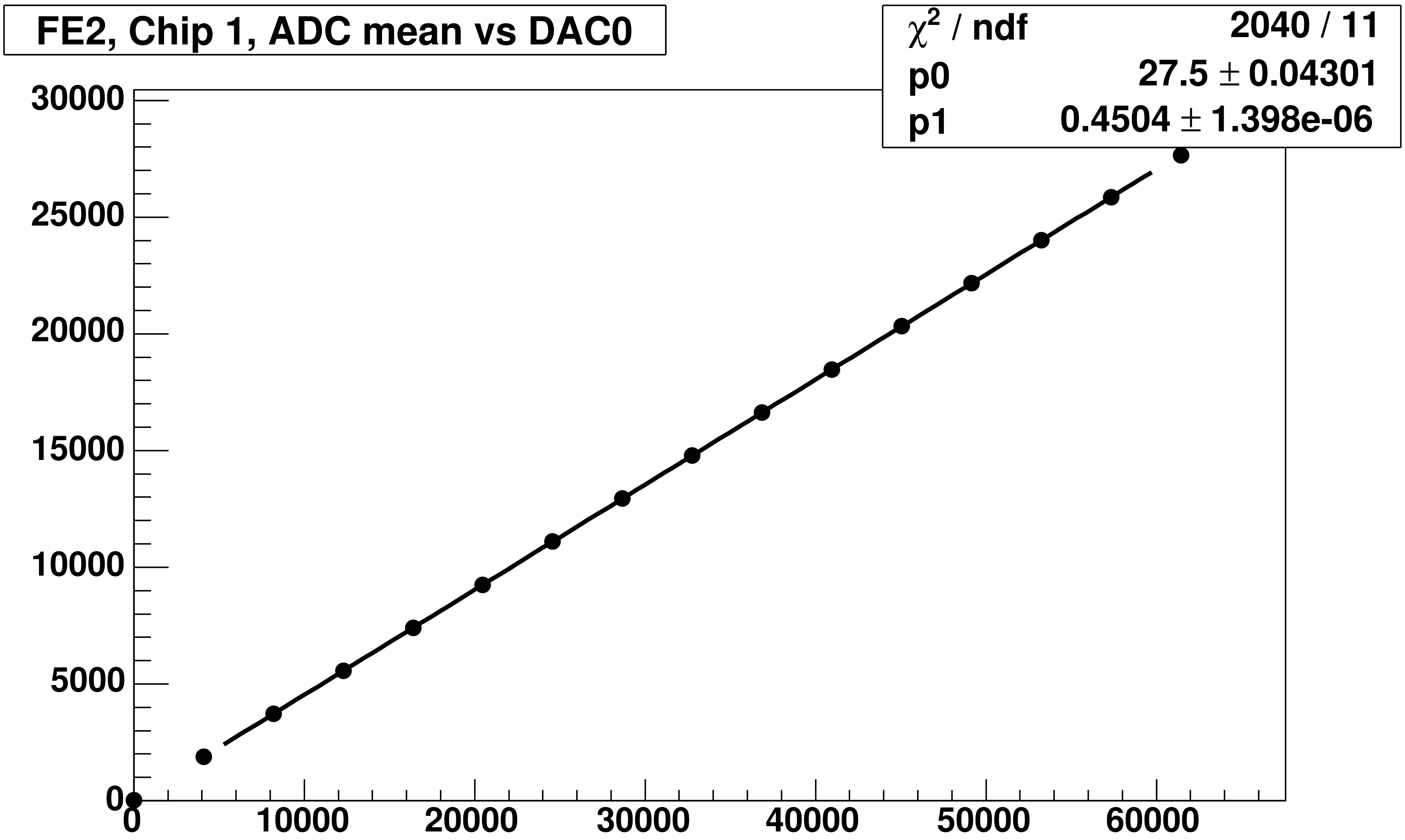

FE2, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

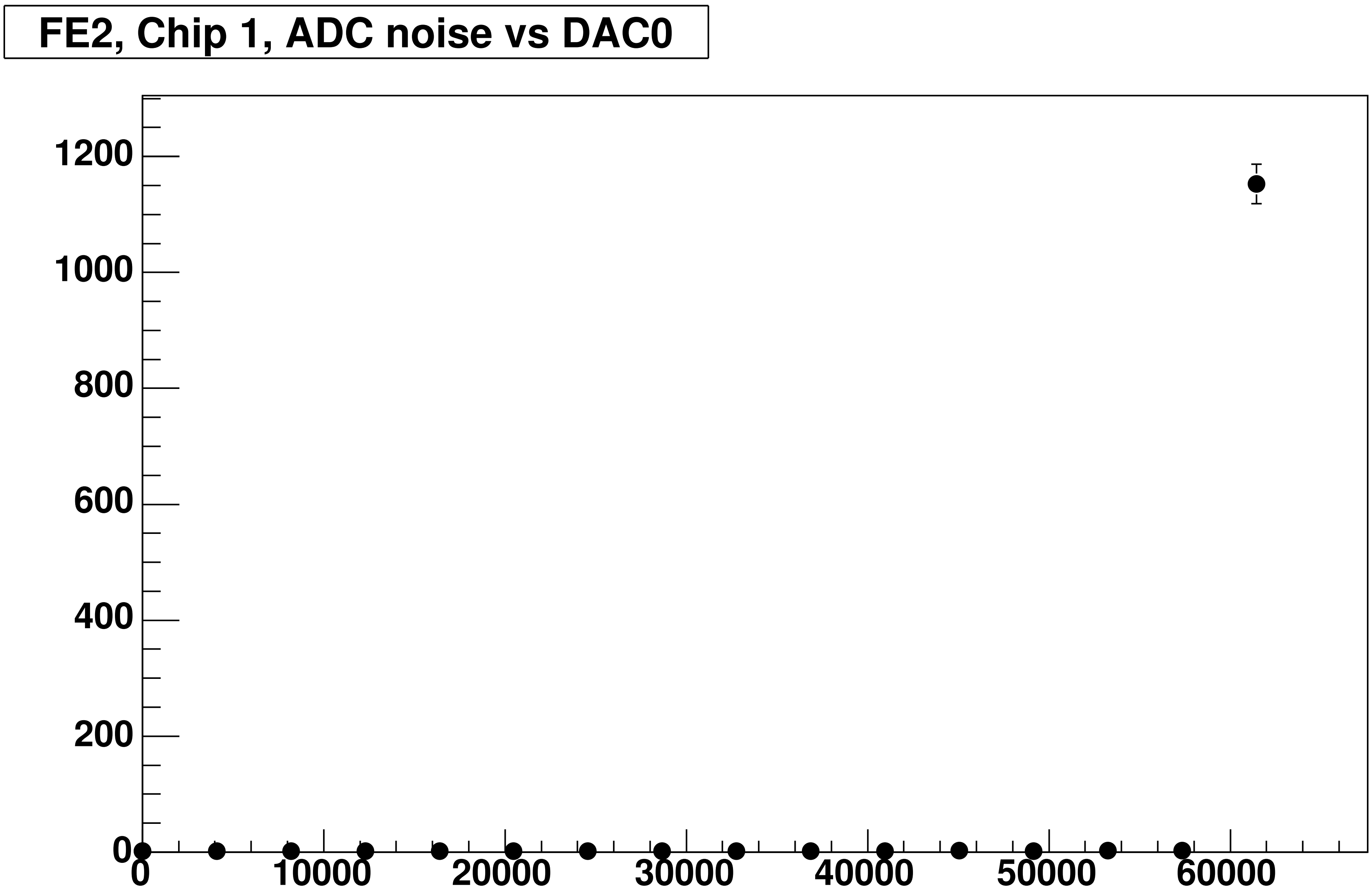


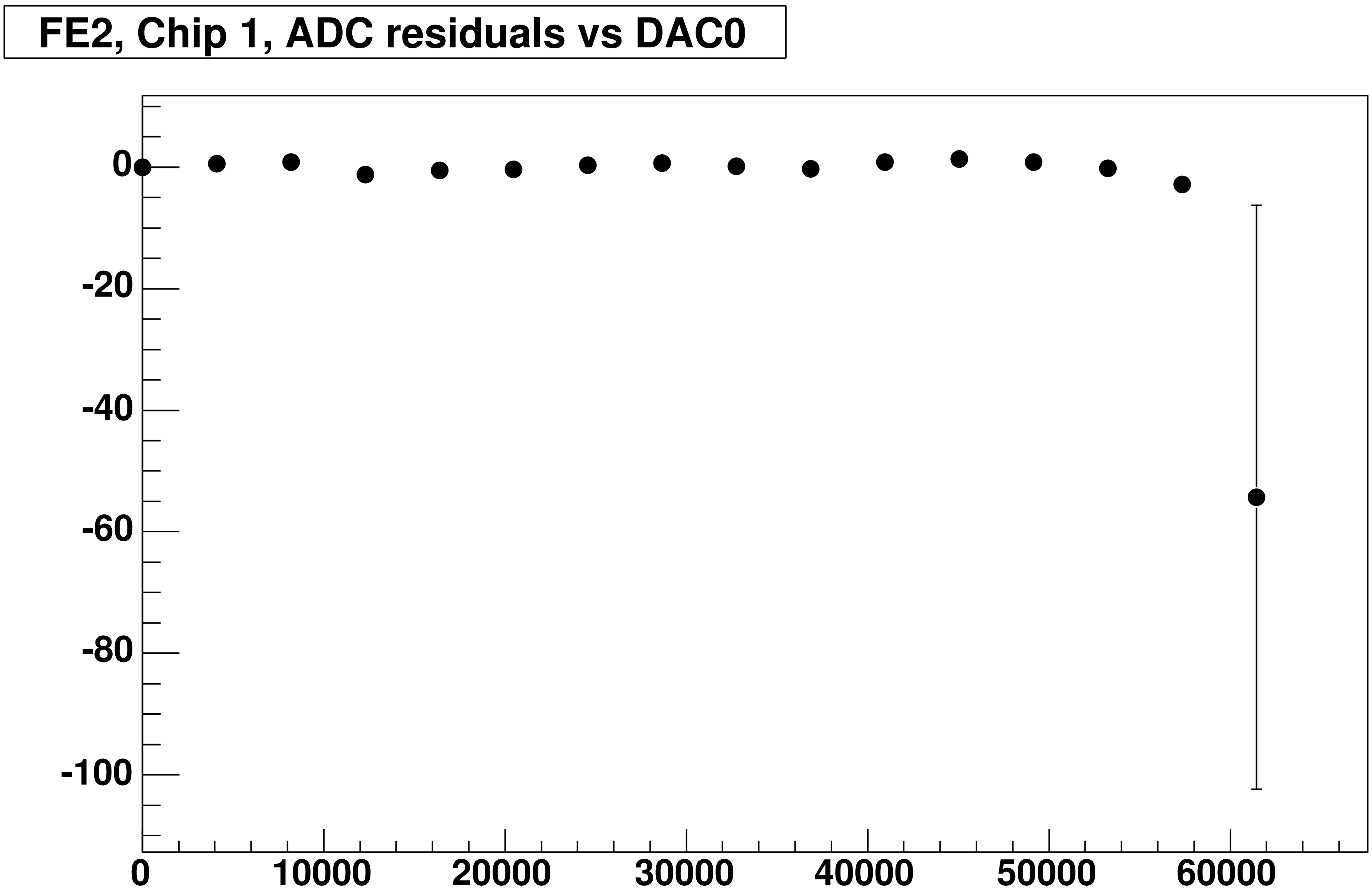
FE2, Chip 0, ADC mean vs DAC1
χ^2 / ndf 33.27 / 11
p0 31.77 ± 0.04267
p1 -7.57e-07 ± 1.183e-06
32.2
32
31.8
31.6
31.4
31.2
0
10000
20000
30000
40000
50000
60000

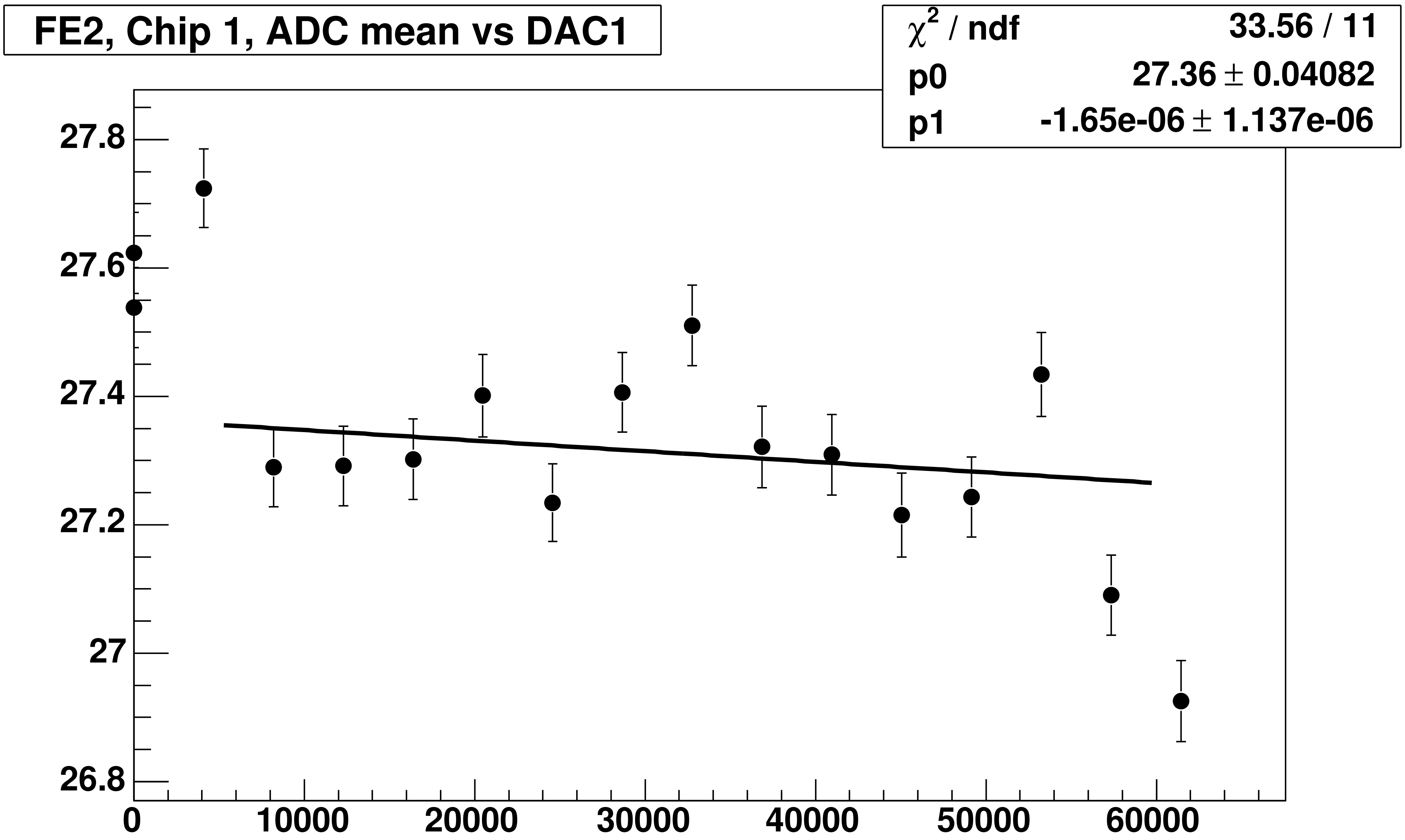

FE2, Chip 0, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
0
10000
20000
30000
40000
50000
60000


FE2, Chip 0, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

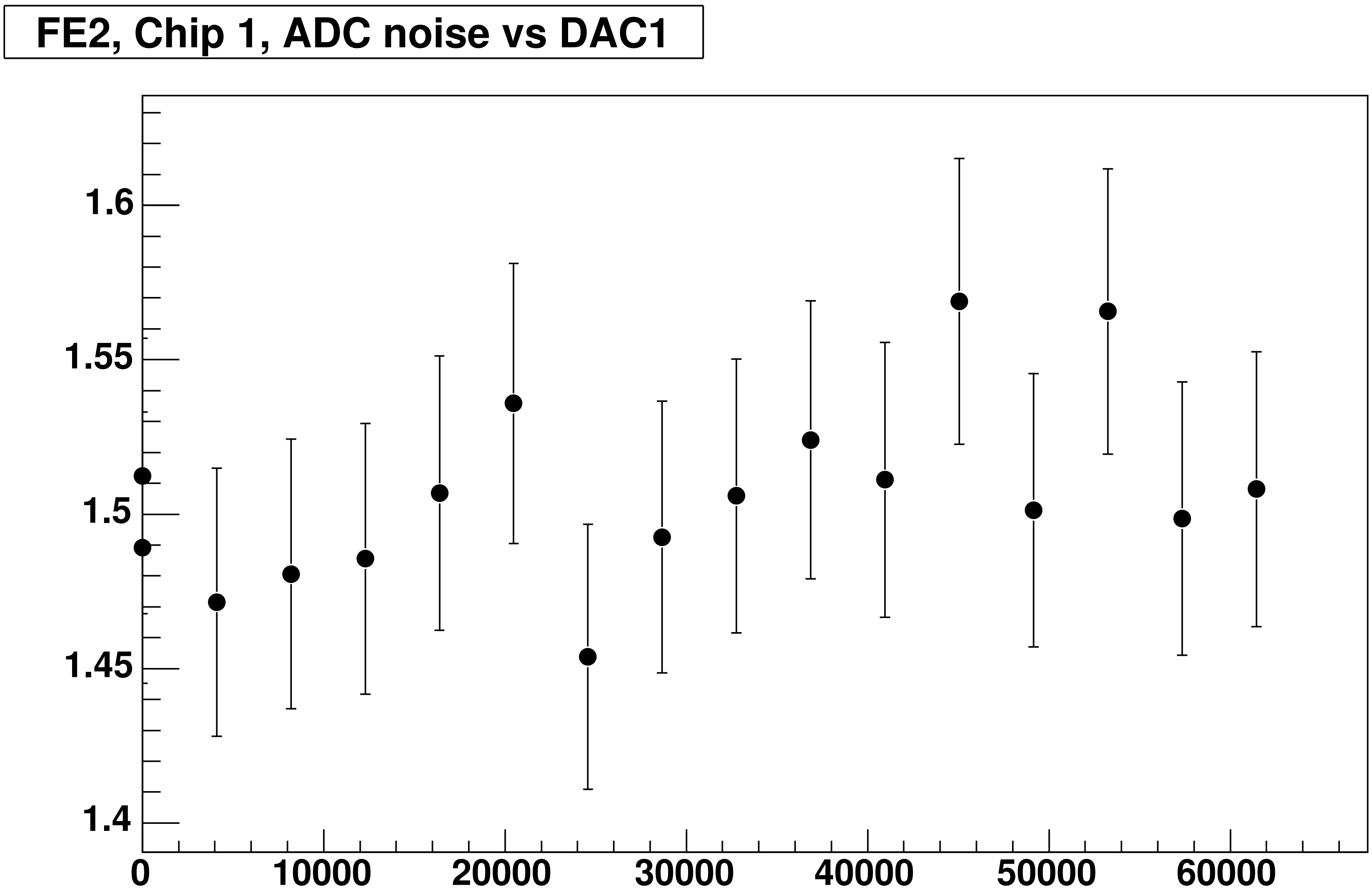

FE2, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2040 / 11
p0 27.5 $\pm$ 0.04301
p1 0.4504 $\pm$ 1.398e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

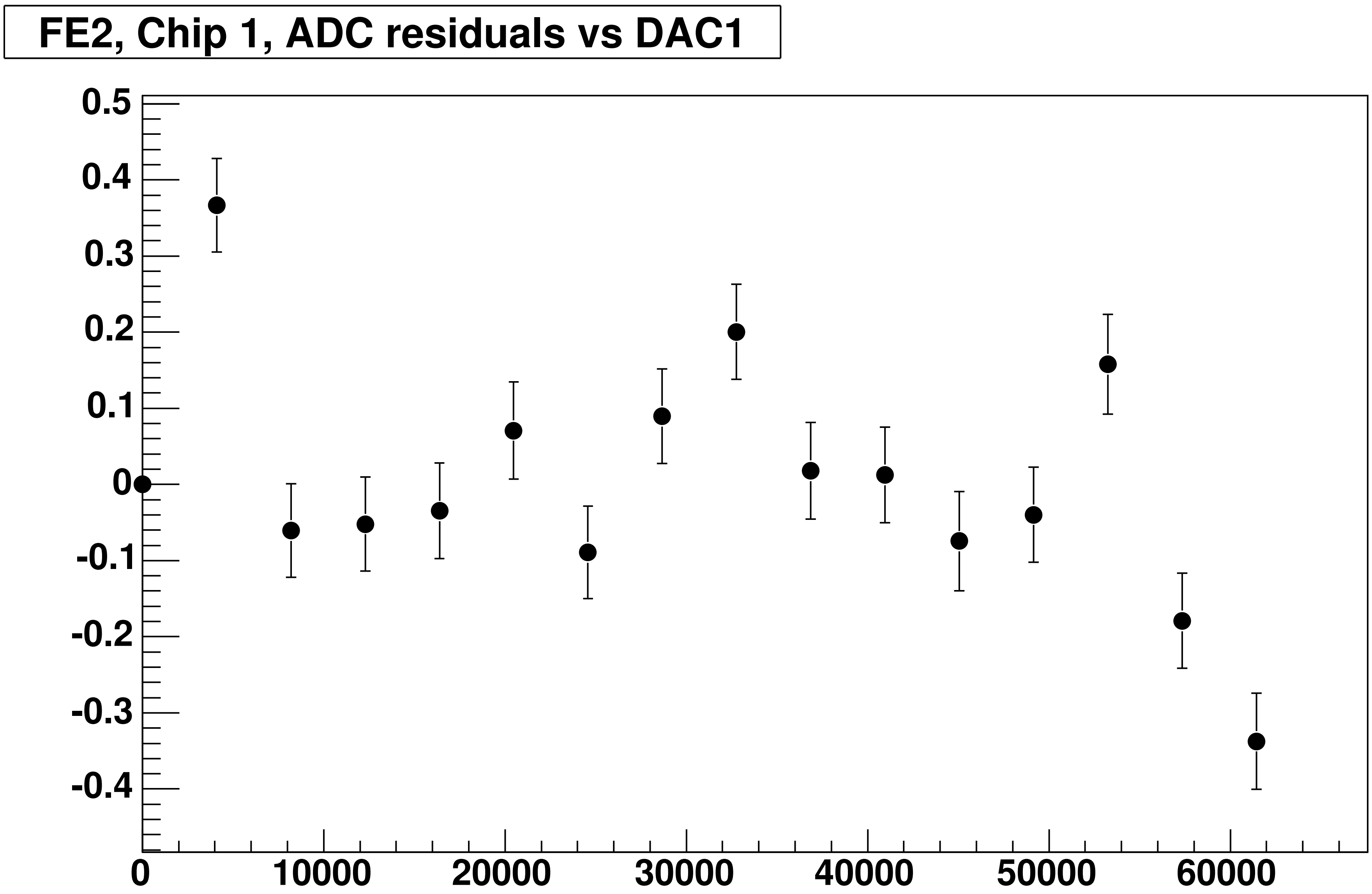

FE2, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

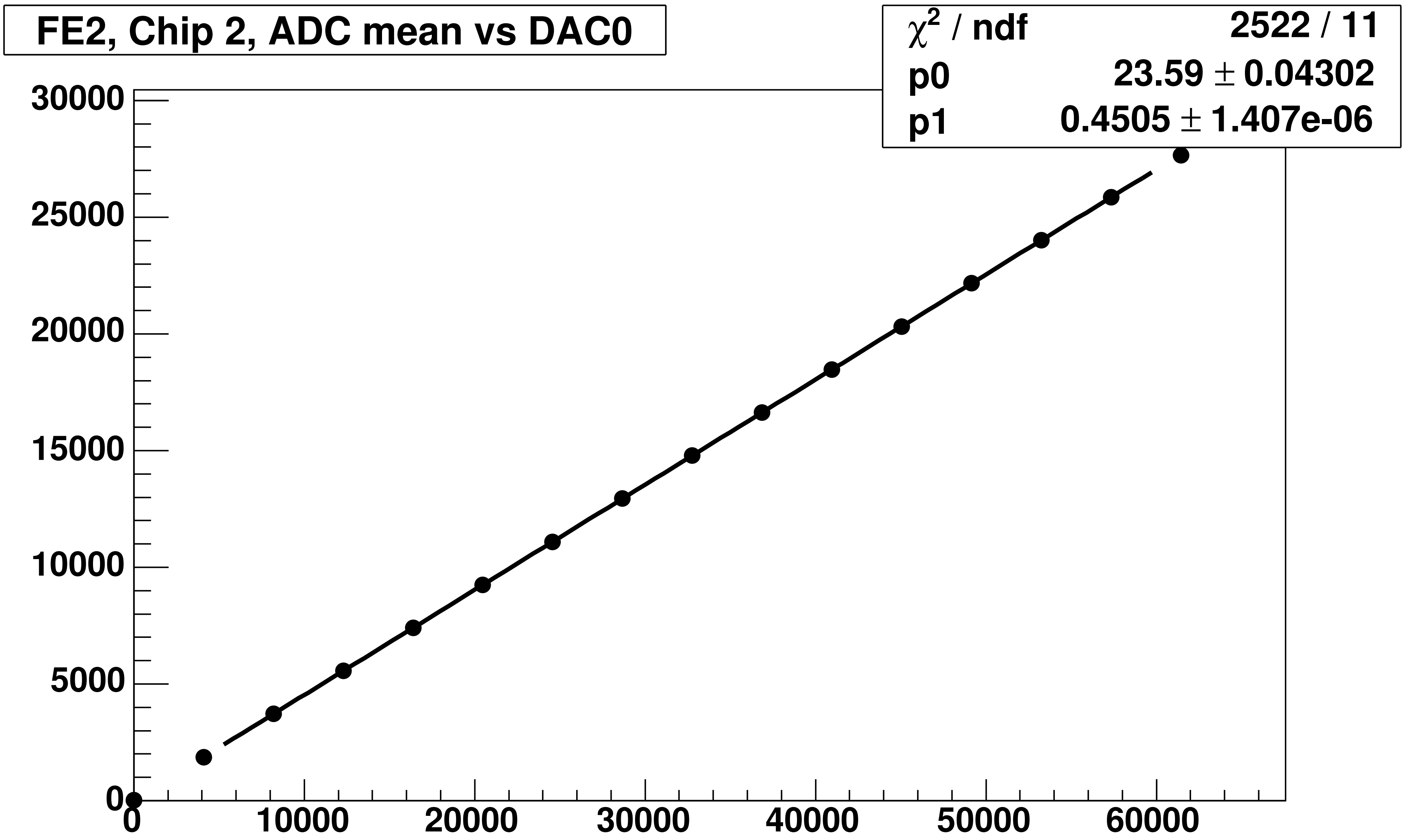

FE2, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



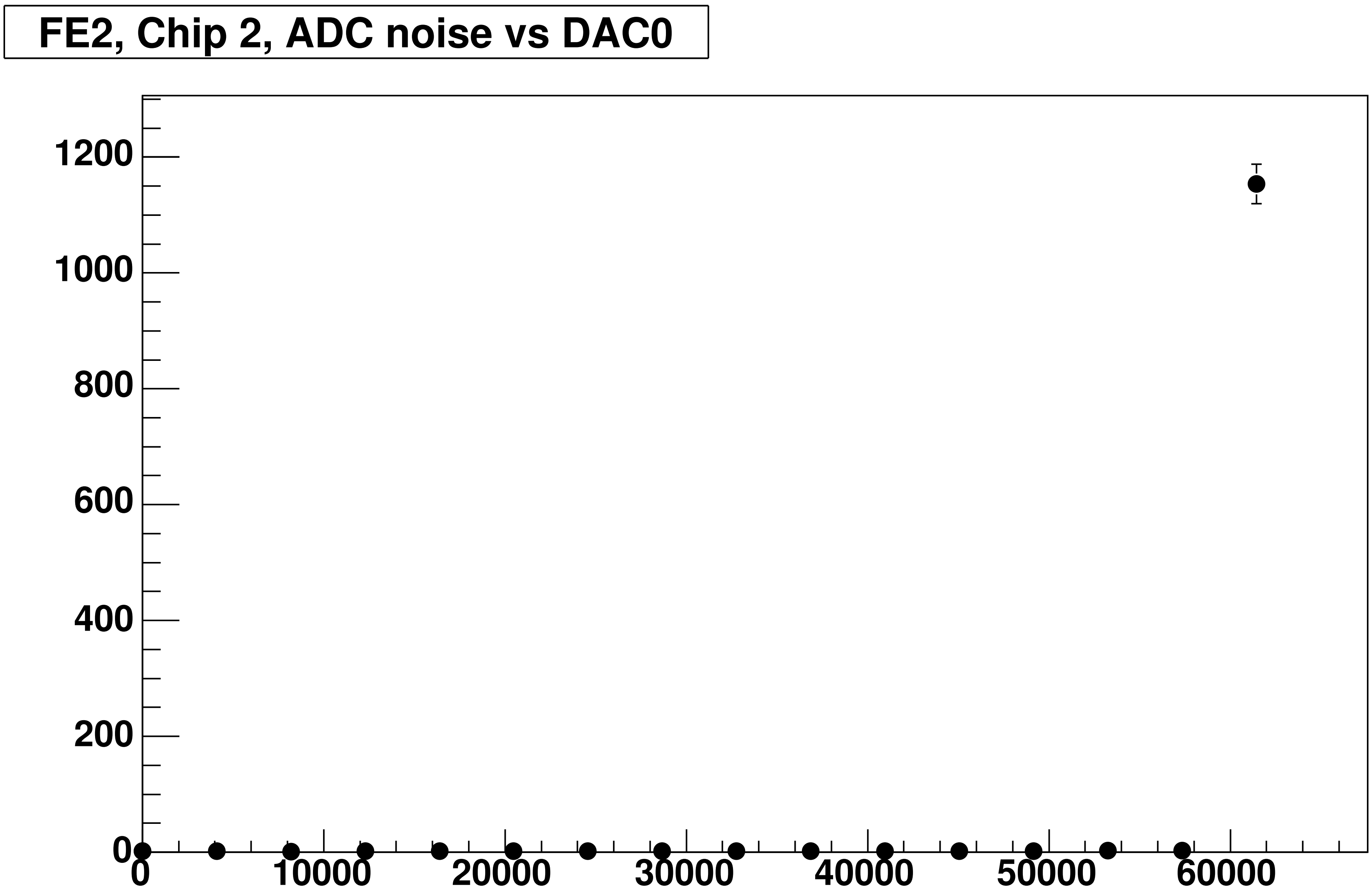
FE2, Chip 1, ADC mean vs DAC1
χ2 / ndf 33.56 / 11
p0 27.36 ± 0.04082
p1 -1.65e-06 ± 1.137e-06
27.8
27.6
27.4
27.2
27
26.8
0
10000
20000
30000
40000
50000
60000

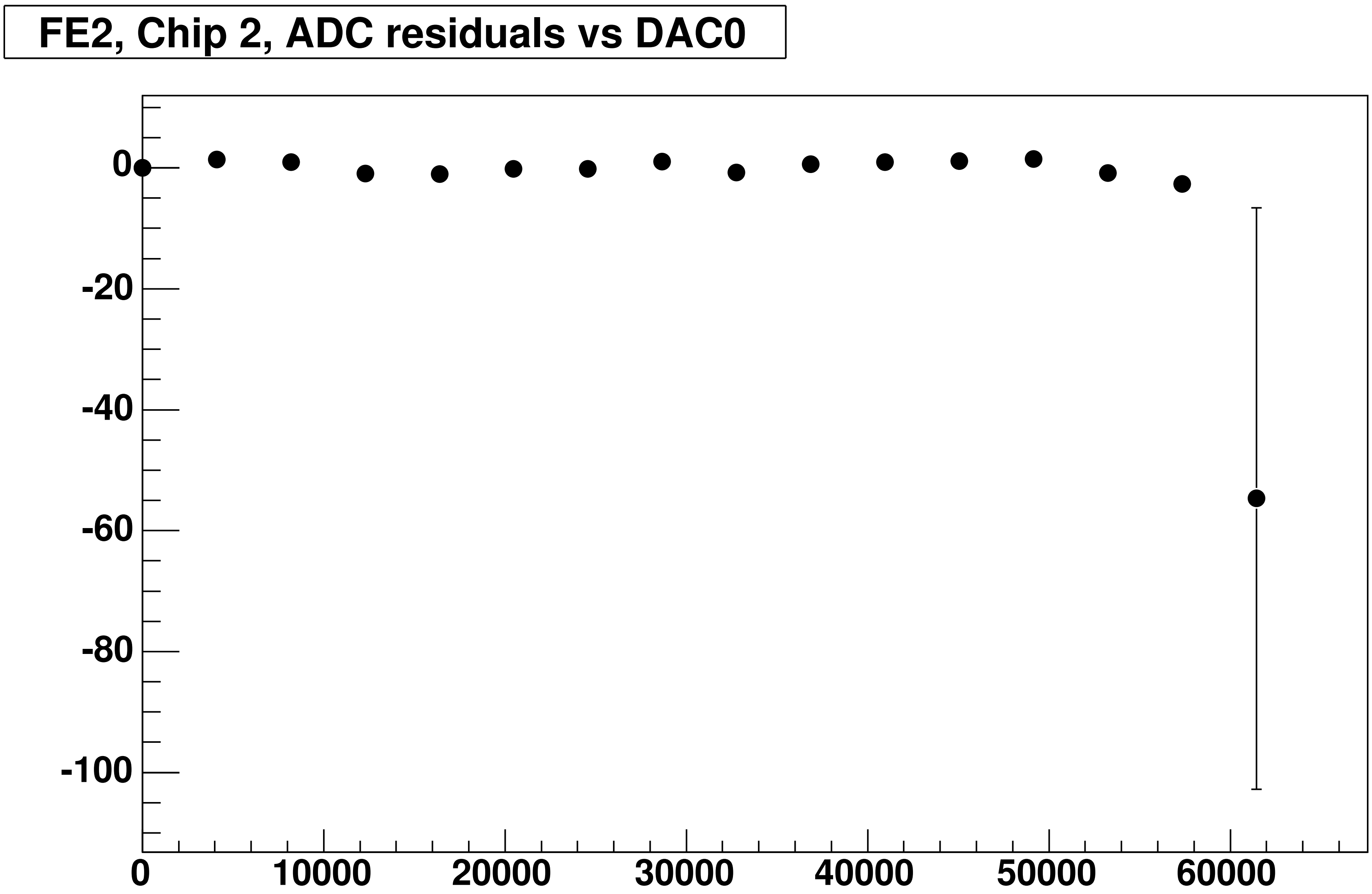

FE2, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

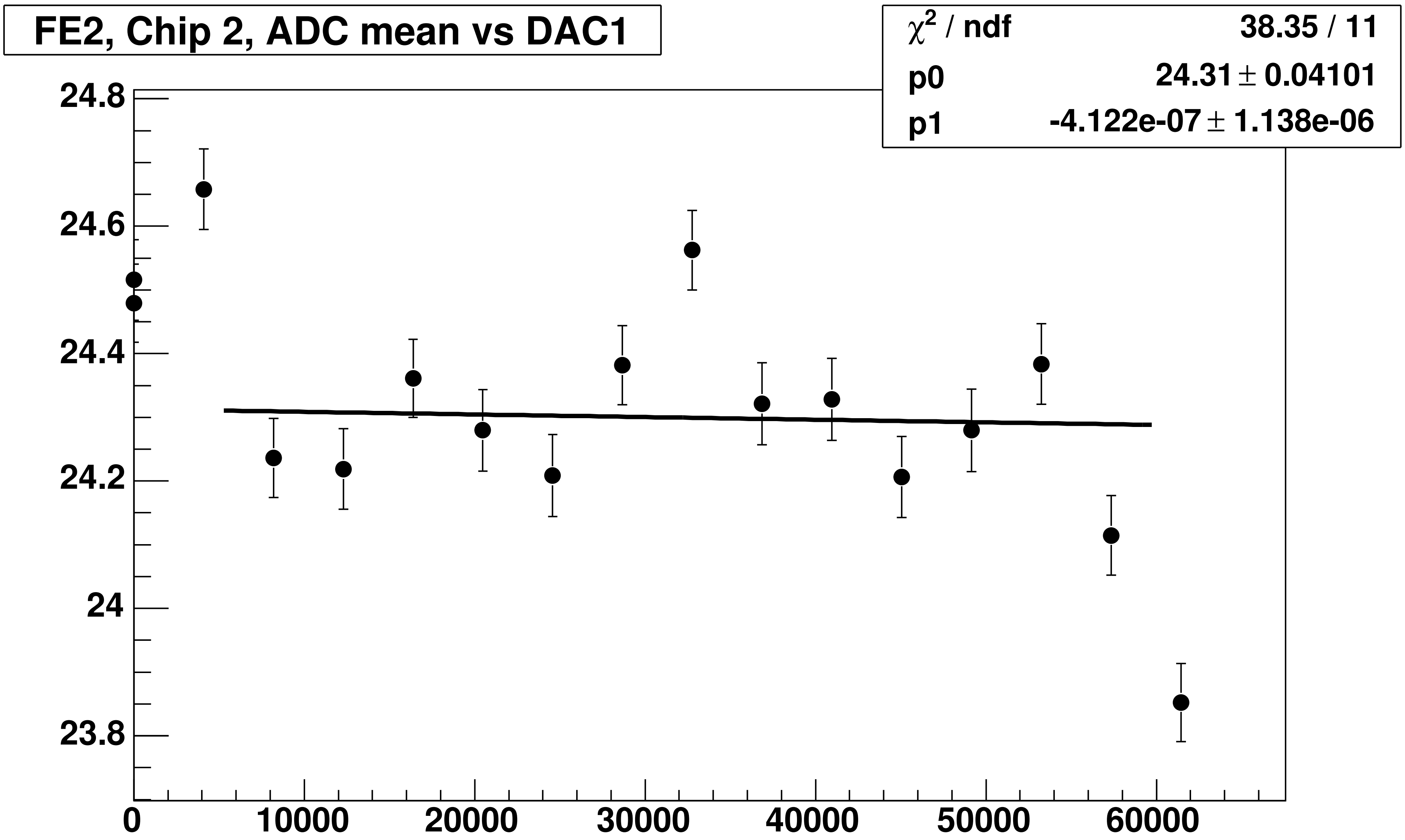

FE2, Chip 1, ADC residuals vs DAC1
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



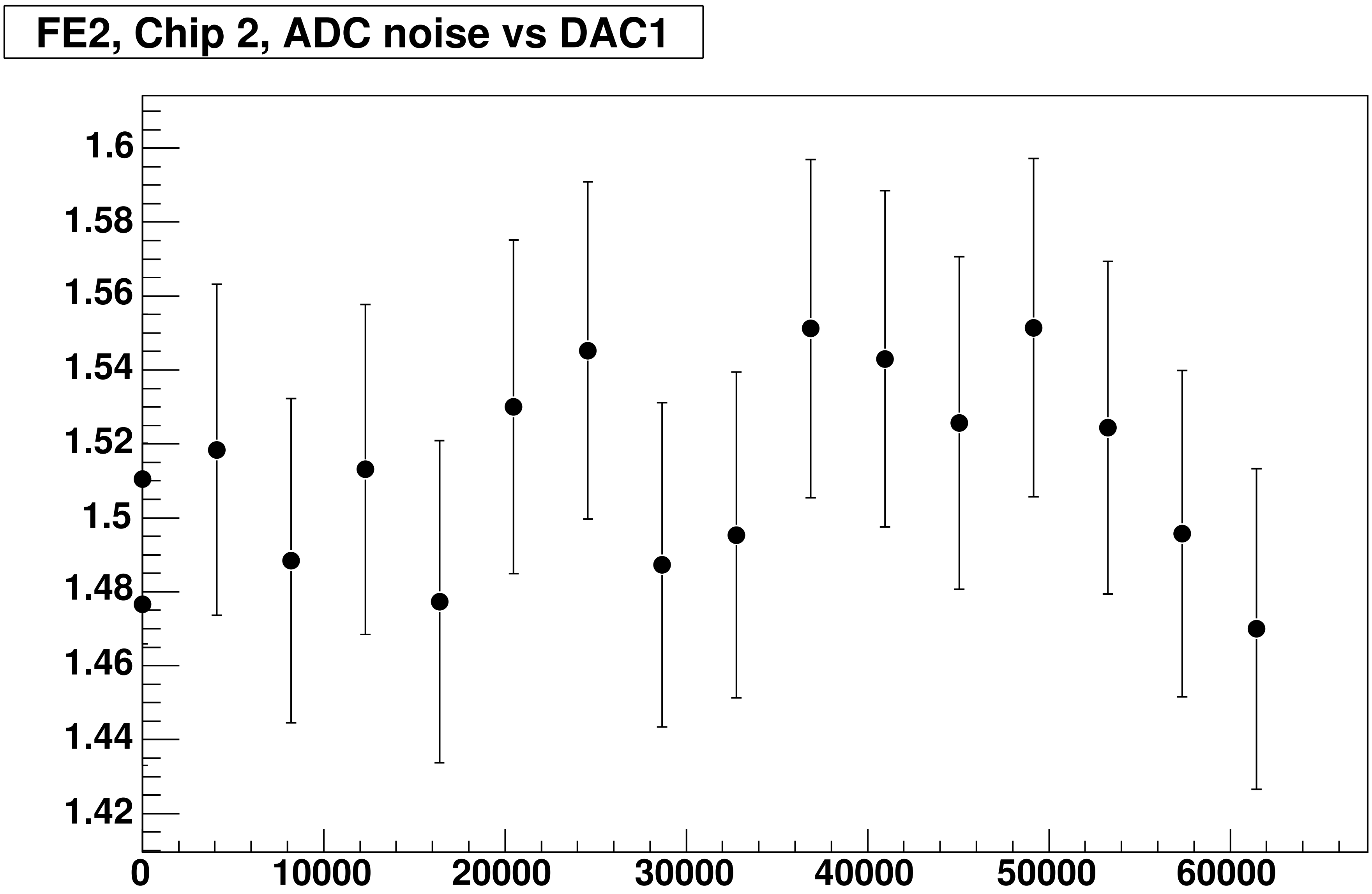
FE2, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2522 / 11
p0 23.59 ± 0.04302
p1 0.4505 ± 1.407e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

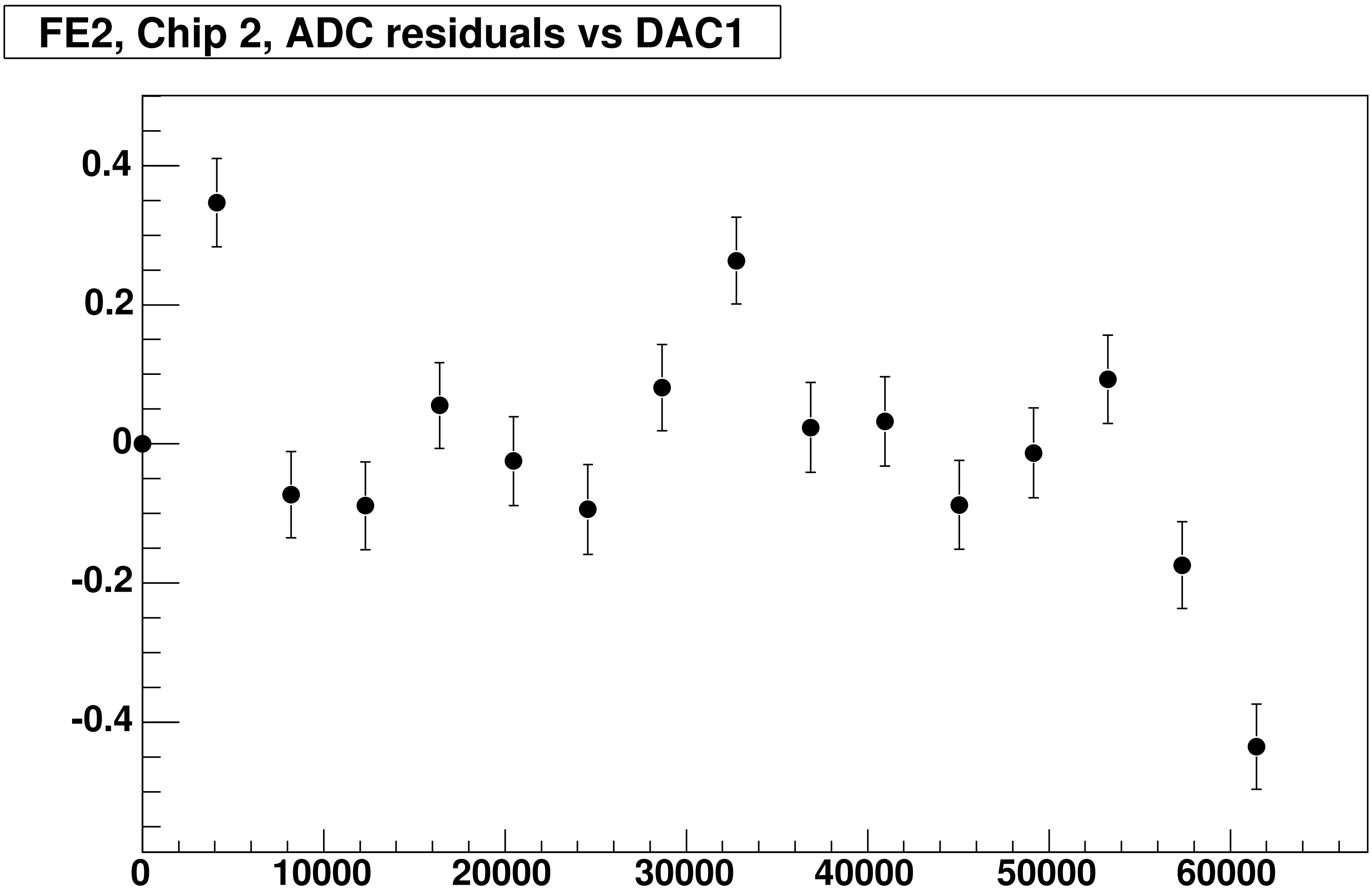

FE2, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

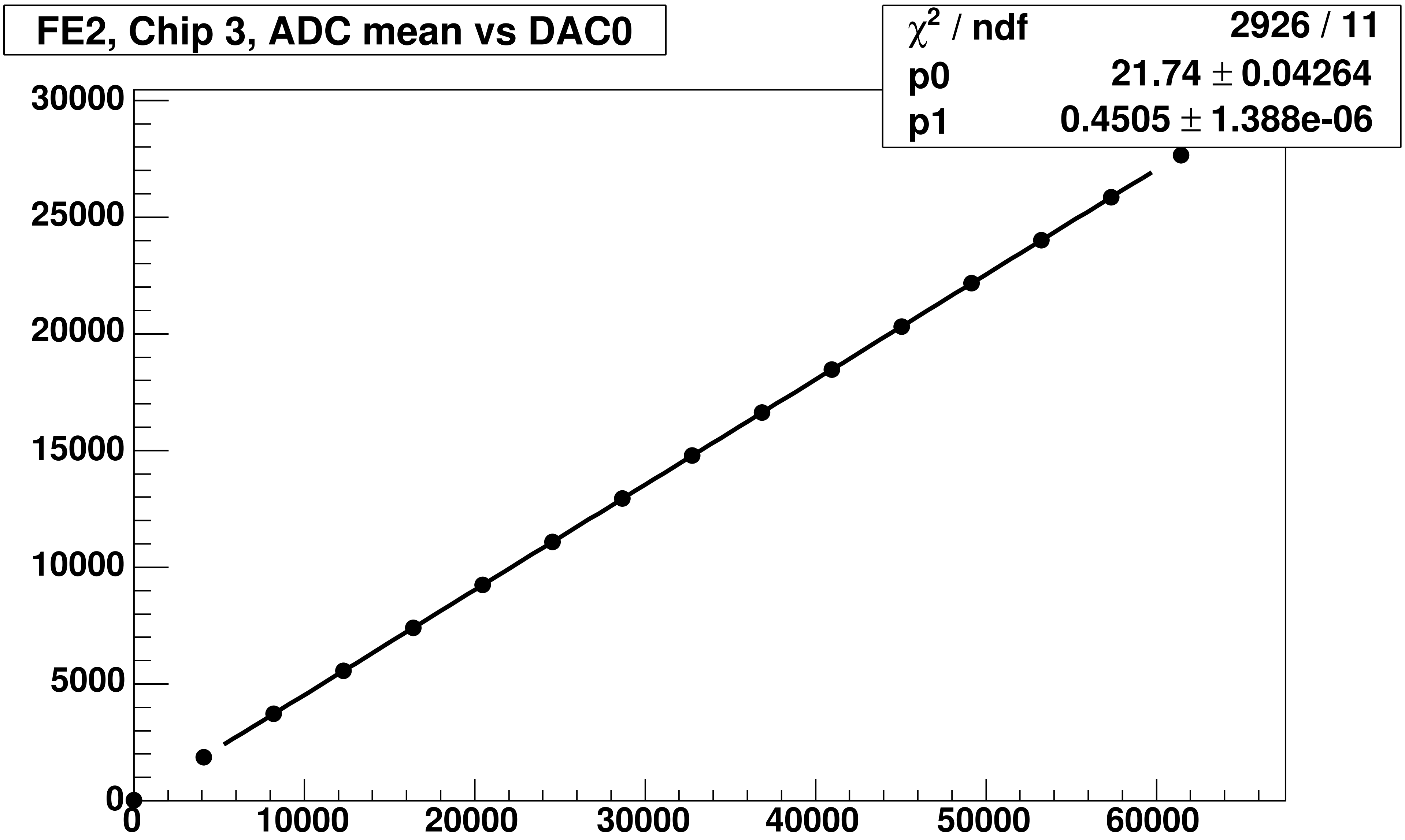

FE2, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

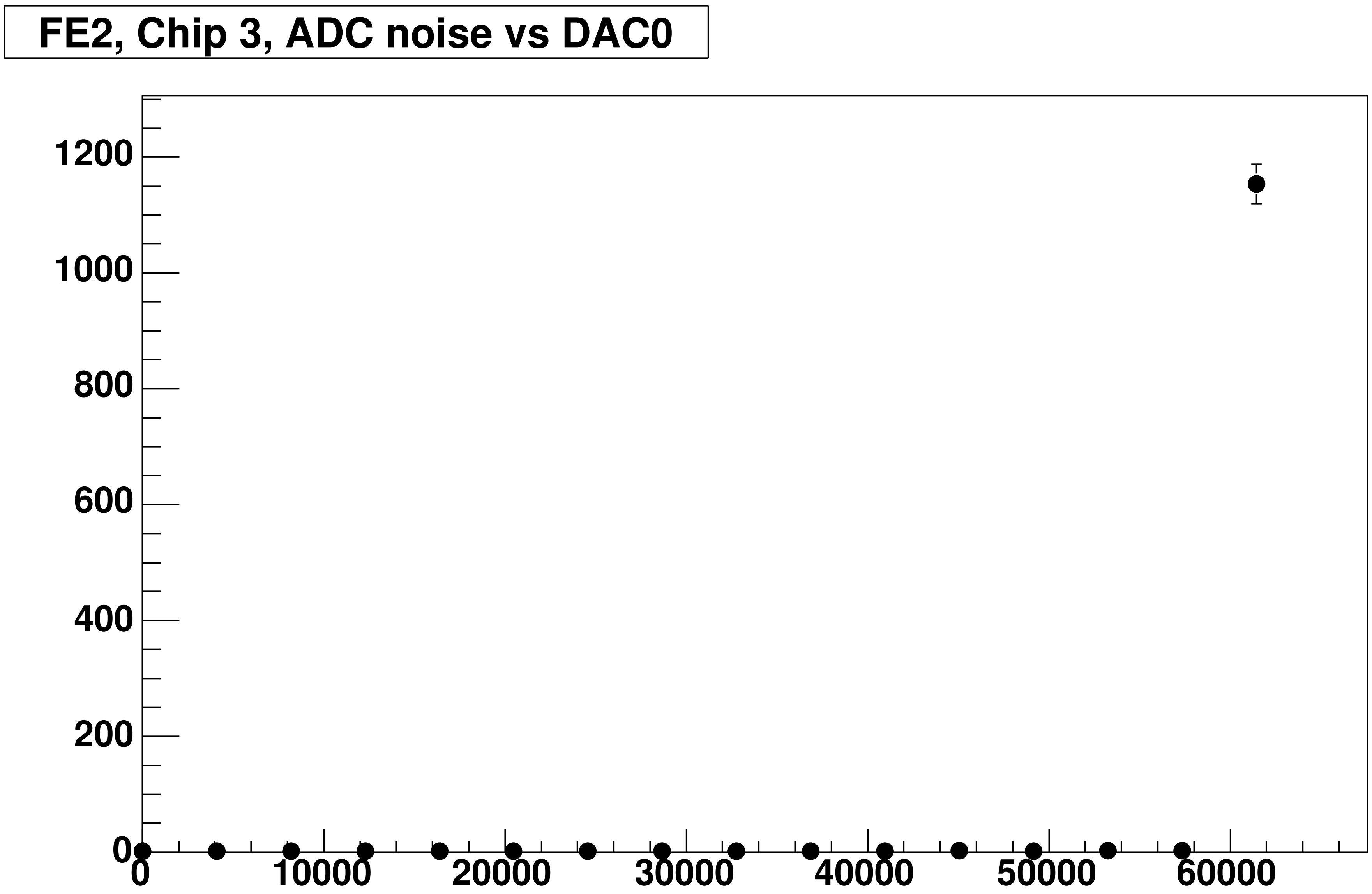


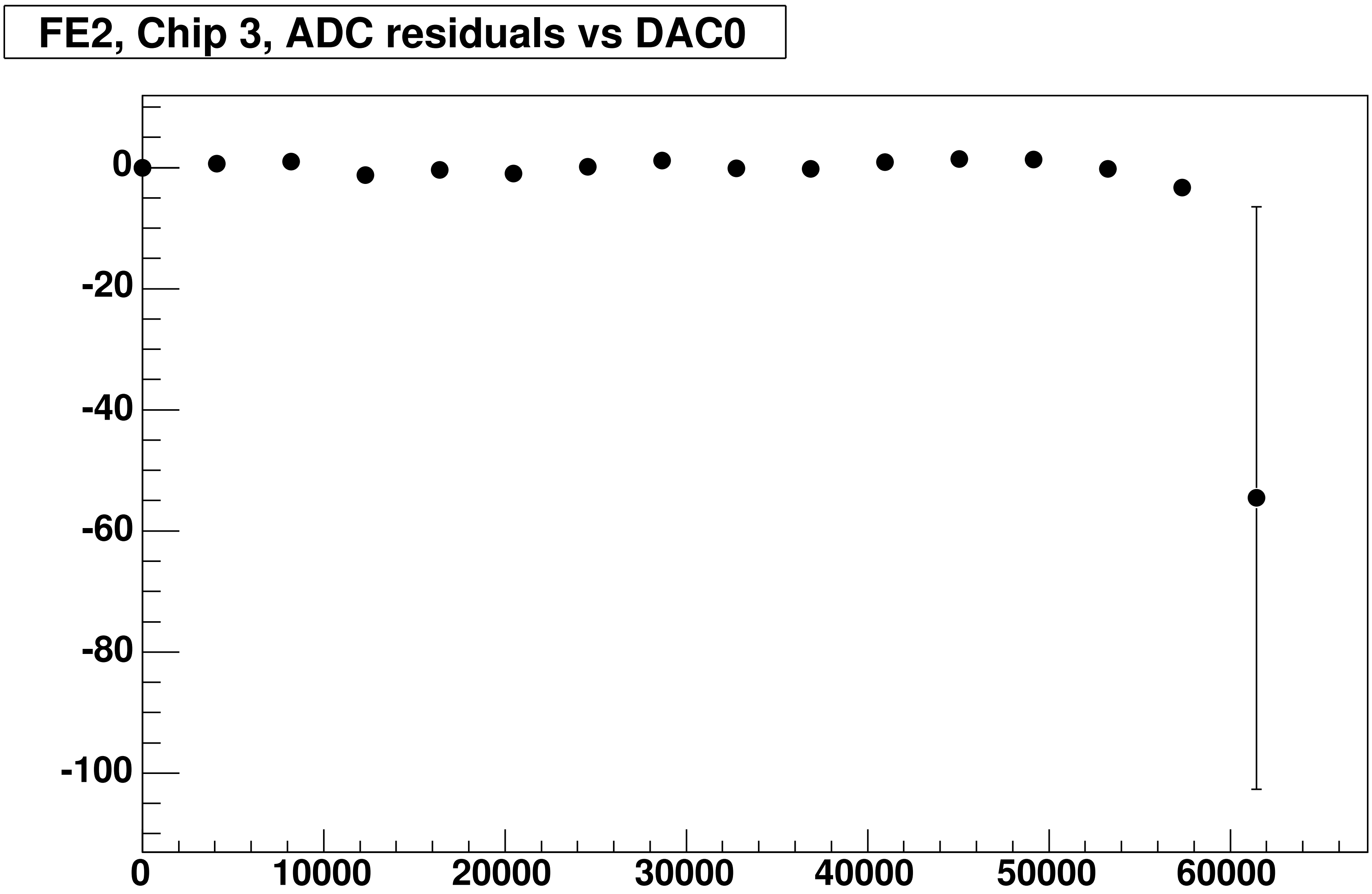
FE2, Chip 2, ADC mean vs DAC1
χ² / ndf 38.35 / 11
p0 24.31 ± 0.04101
p1 -4.122e-07 ± 1.138e-06
24.8
24.6
24.4
24.2
24
23.8
0
10000
20000
30000
40000
50000
60000

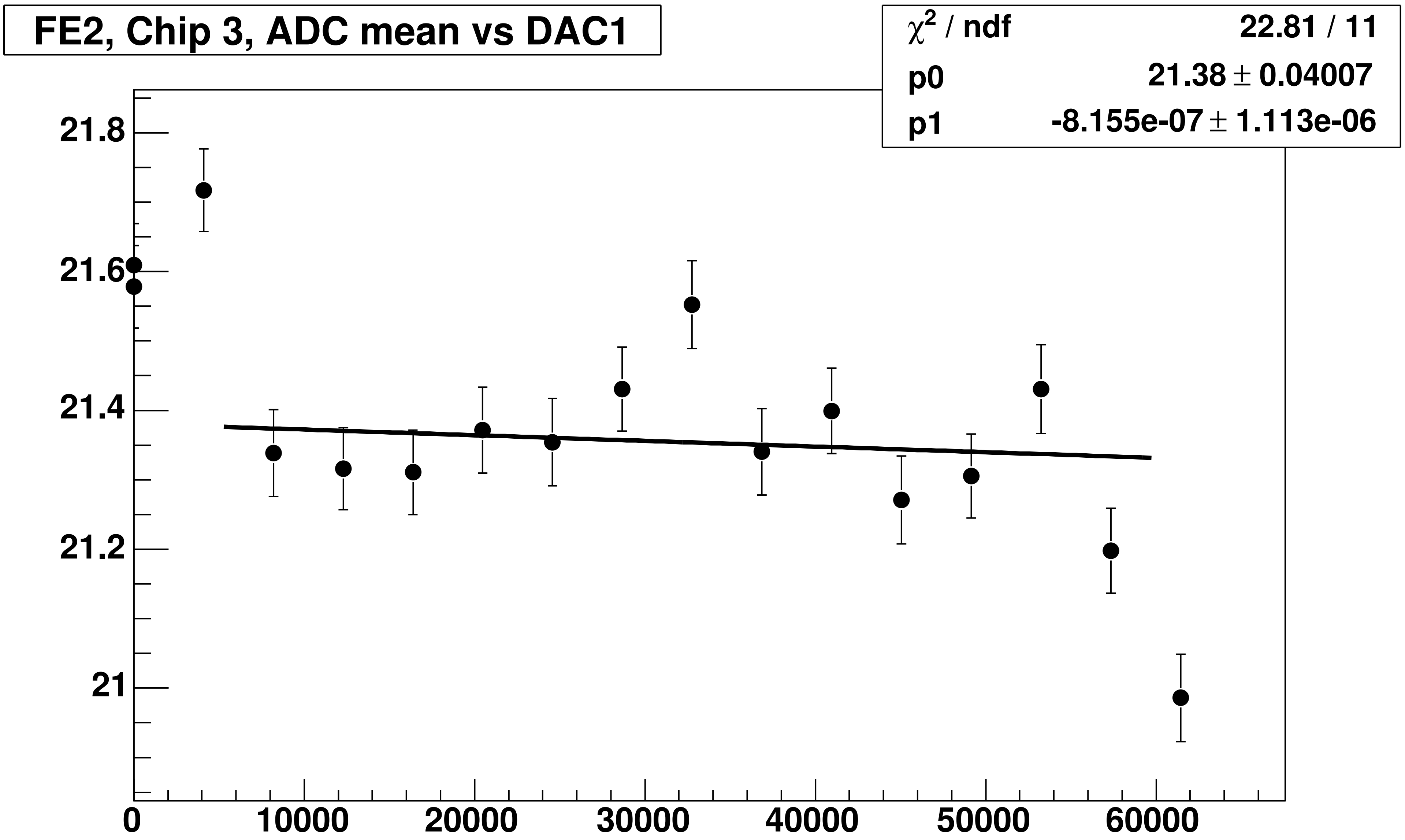

FE2, Chip 2, ADC noise vs DAC1
1.6
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
0
10000
20000
30000
40000
50000
60000


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

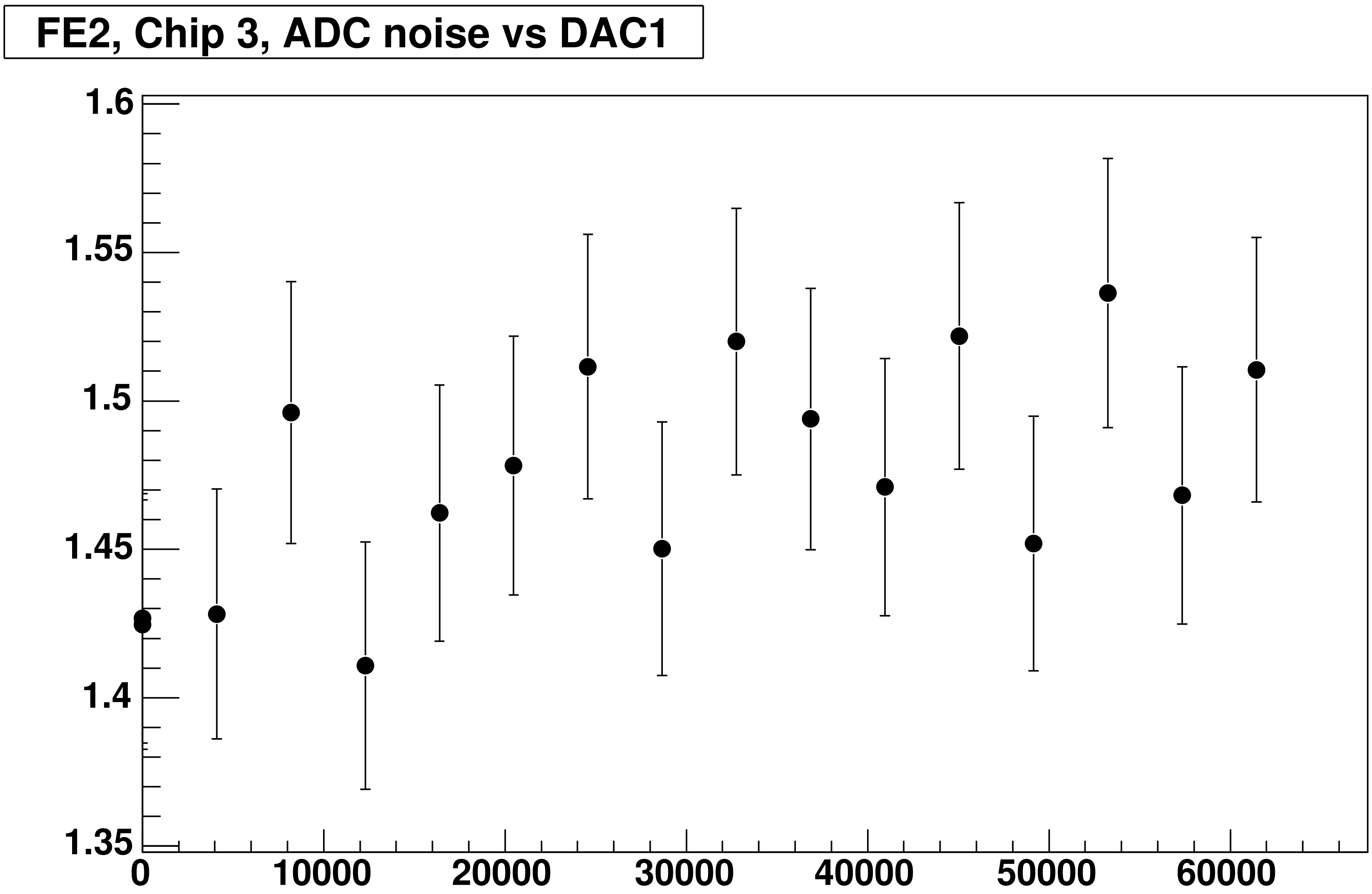

FE2, Chip 3, ADC mean vs DAC0
χ^2 / ndf 2926 / 11
p0 21.74 ± 0.04264
p1 0.4505 ± 1.388e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

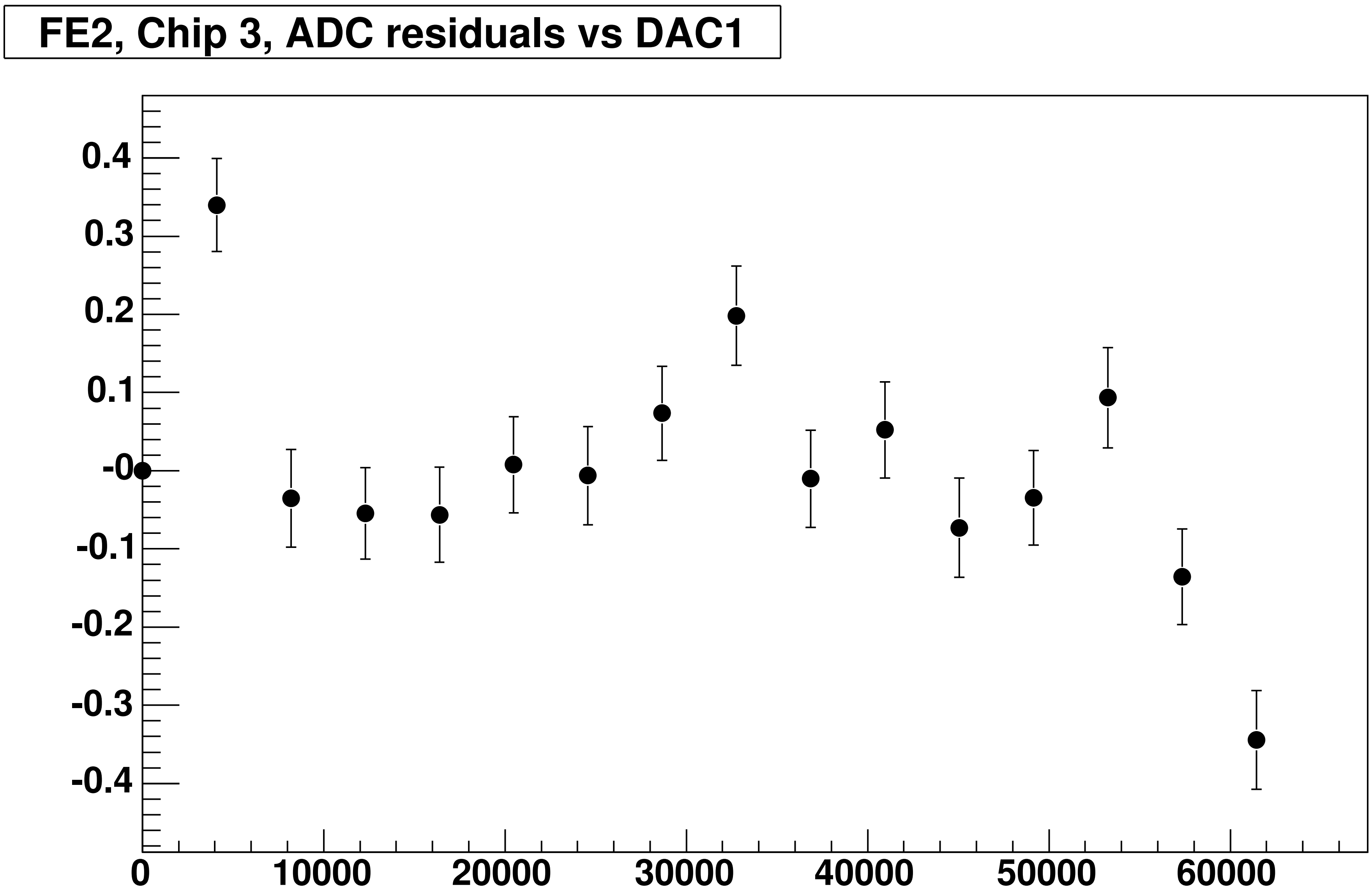

FE2, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

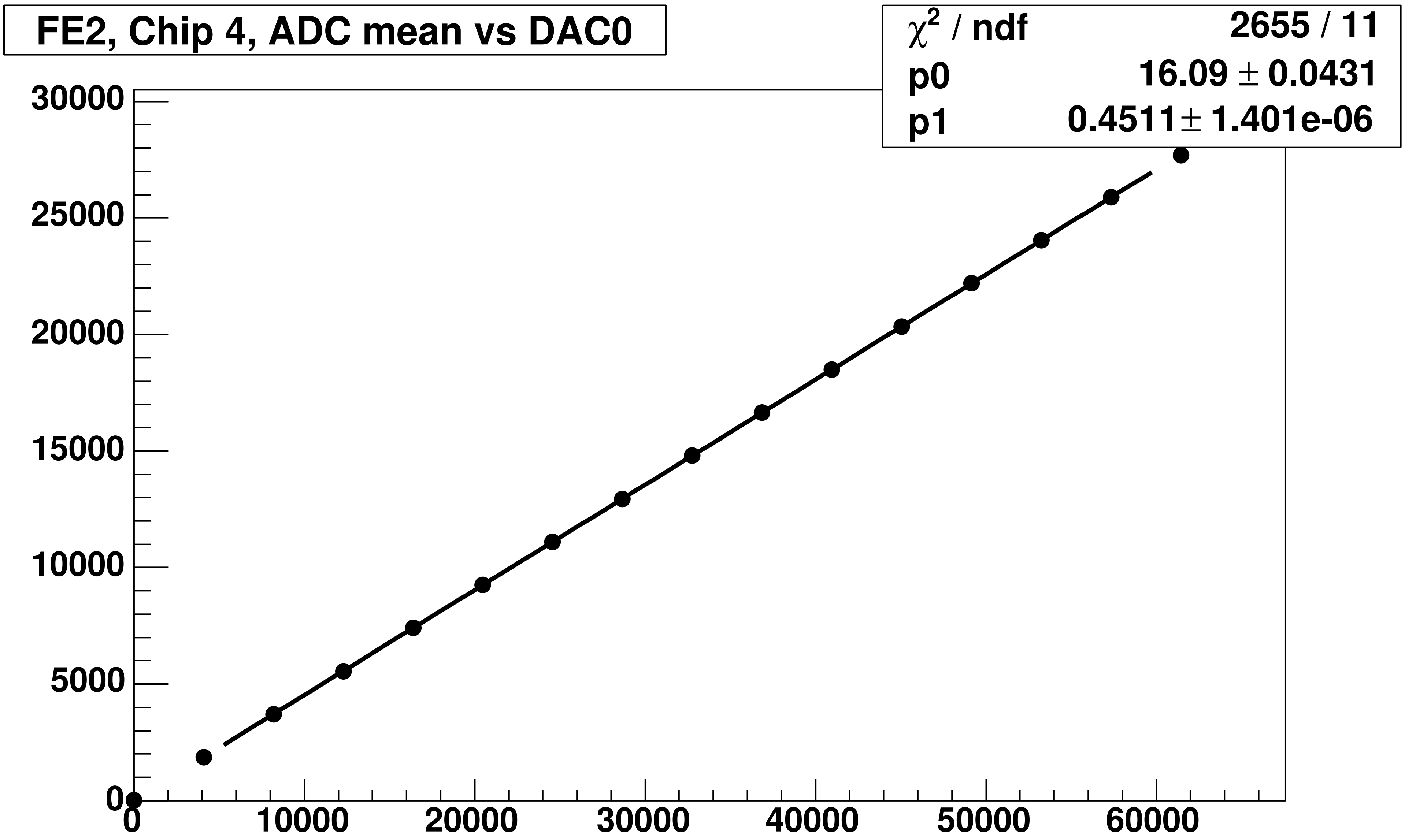

FE2, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



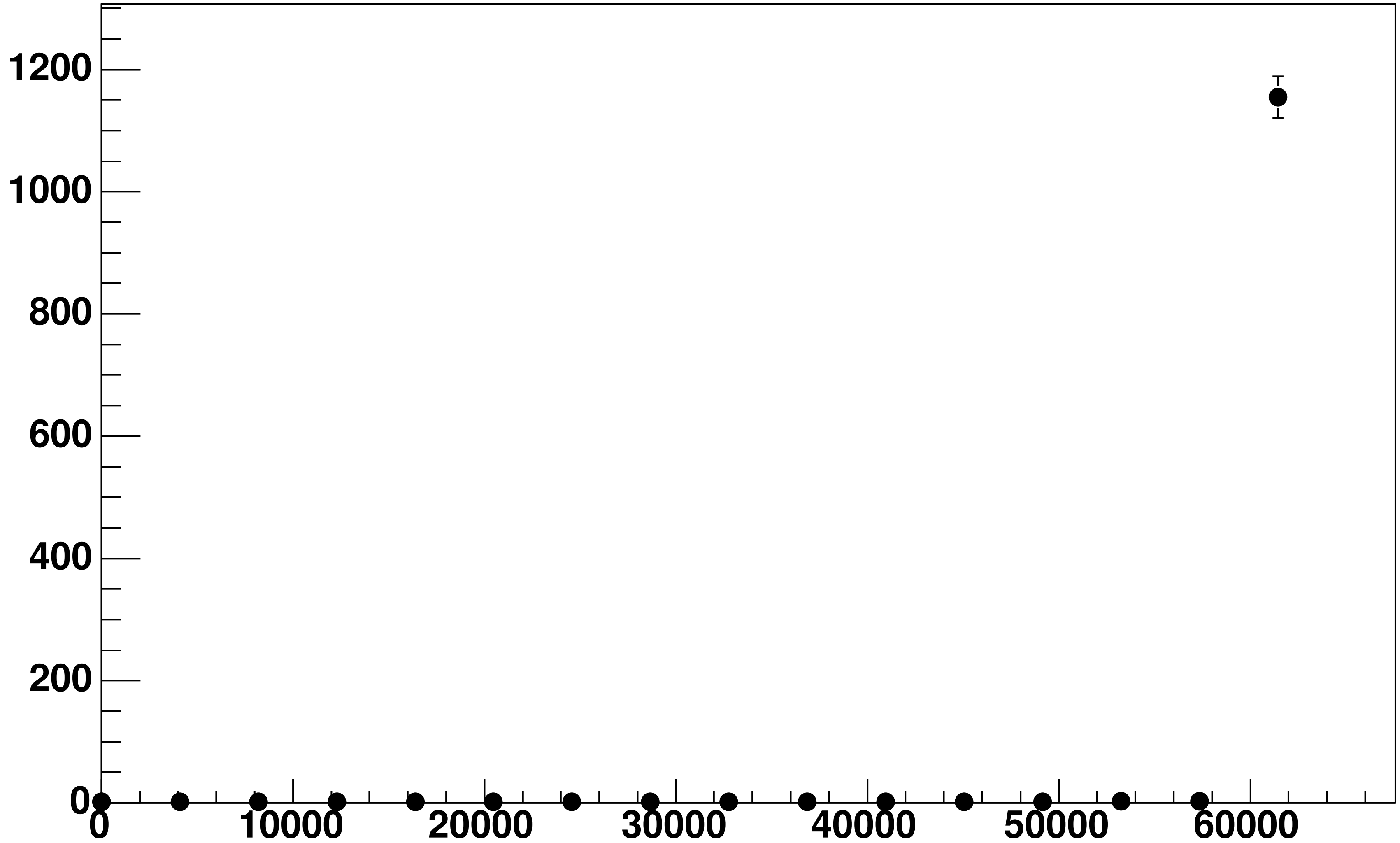
FE2, Chip 3, ADC mean vs DAC1
χ^2 / ndf 22.81 / 11
p0 21.38 ± 0.04007
p1 -8.155e-07 ± 1.113e-06
21.8
21.6
21.4
21.2
21
0
10000
20000
30000
40000
50000
60000

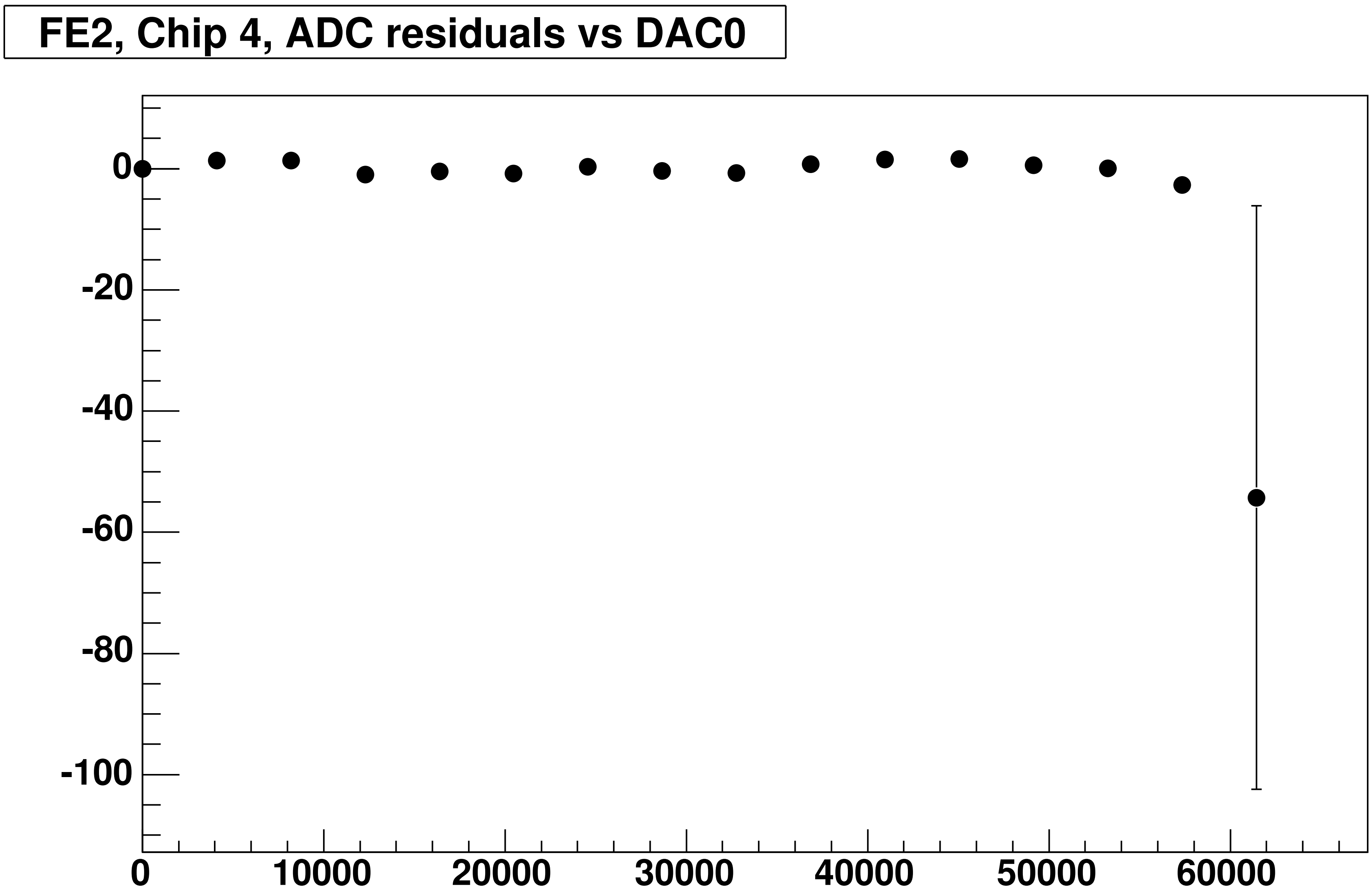

FE2, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

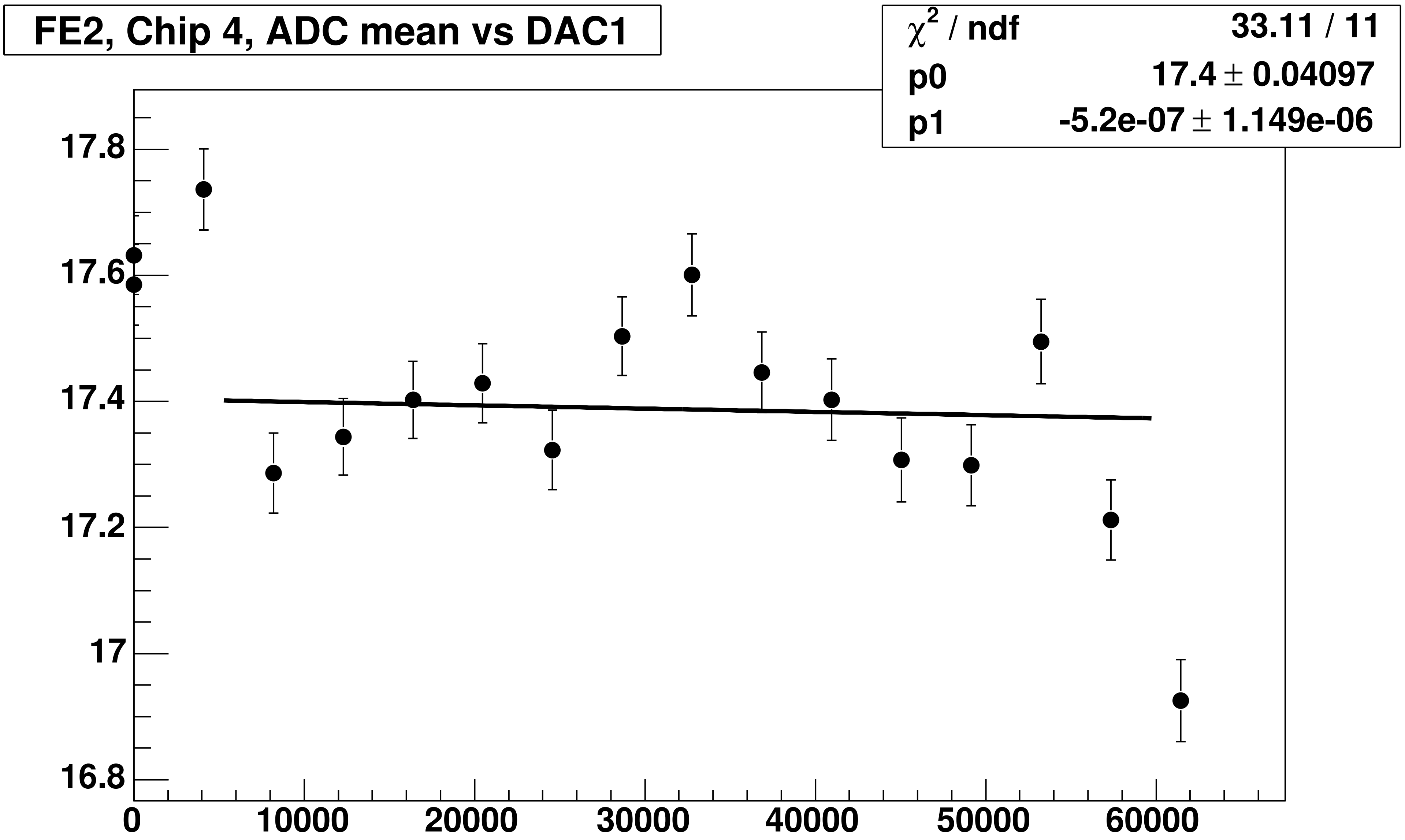

FE2, Chip 3, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000


FE2, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2655 / 11
p0 16.09 ± 0.0431
p1 0.4511 ± 1.401e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

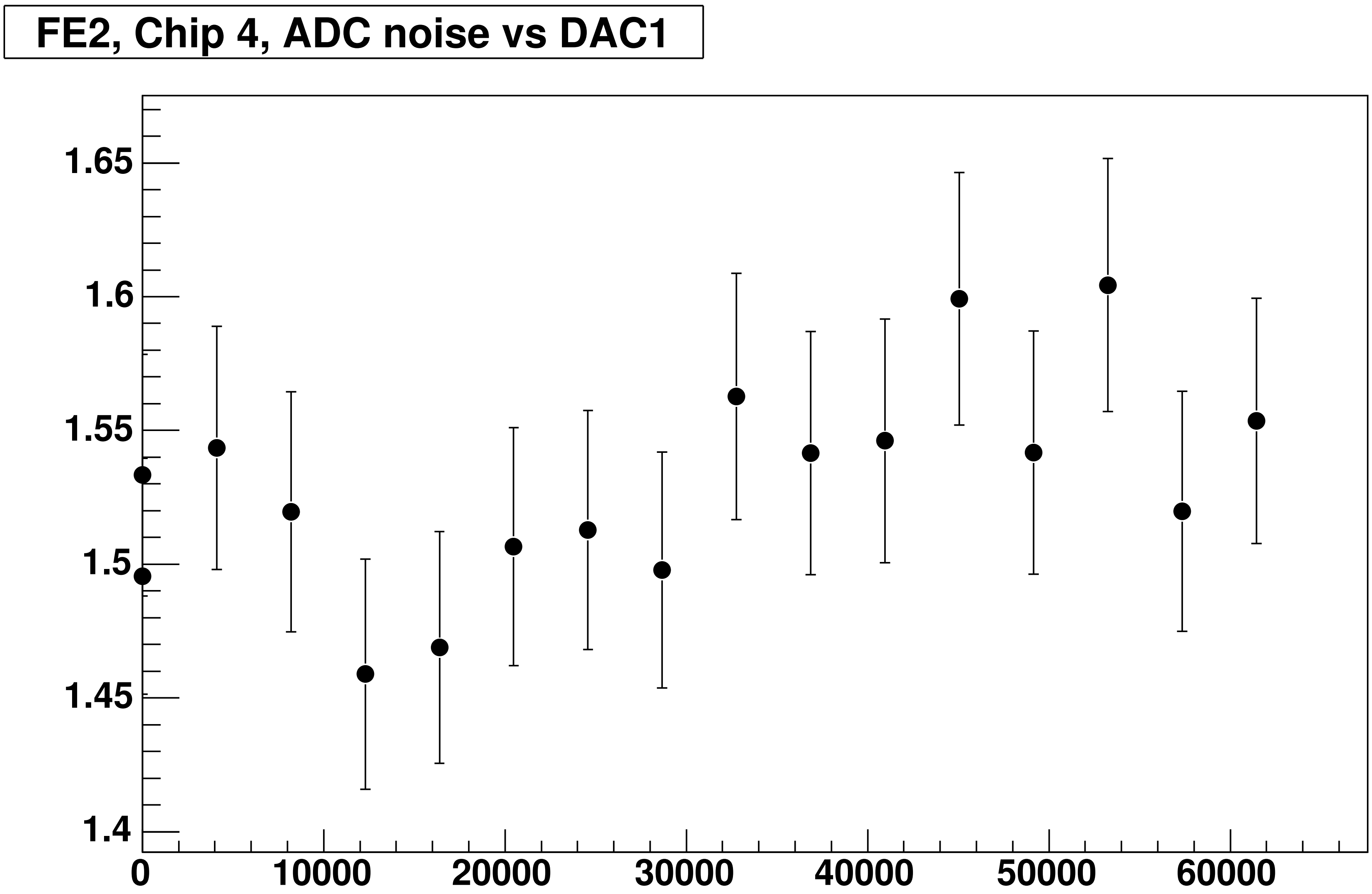
FE2, Chip 4, ADC noise vs DAC0

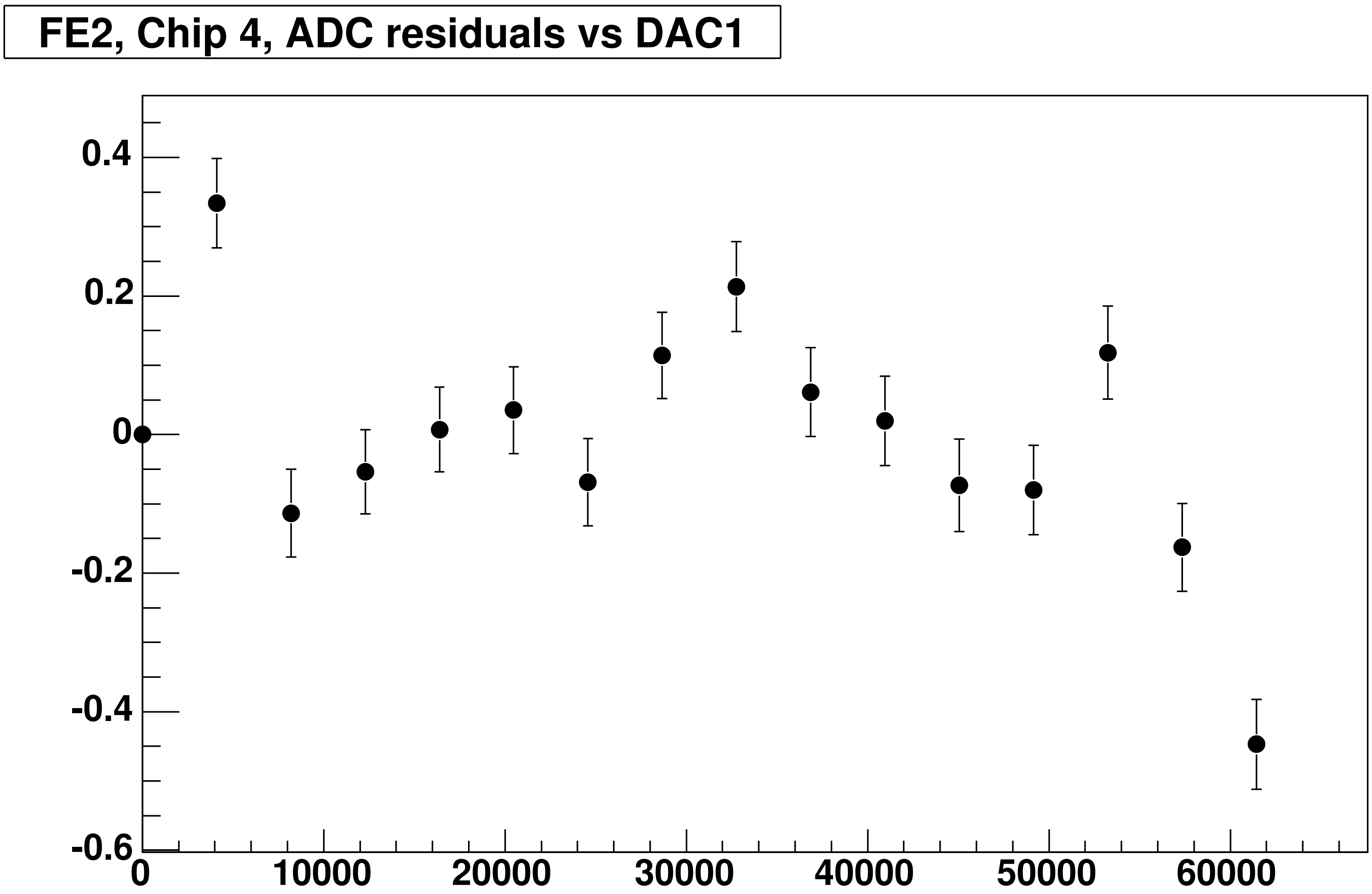



FE2, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

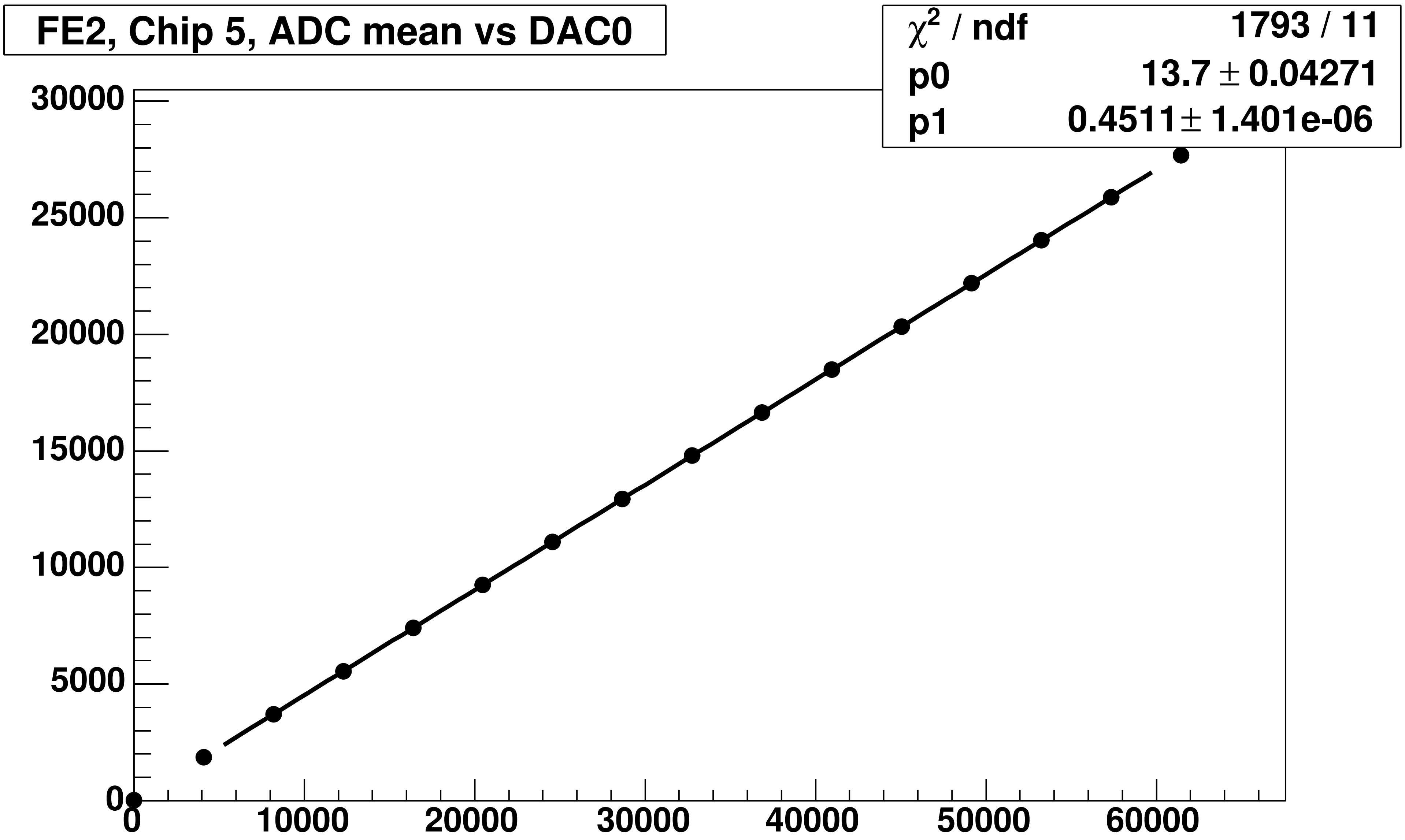


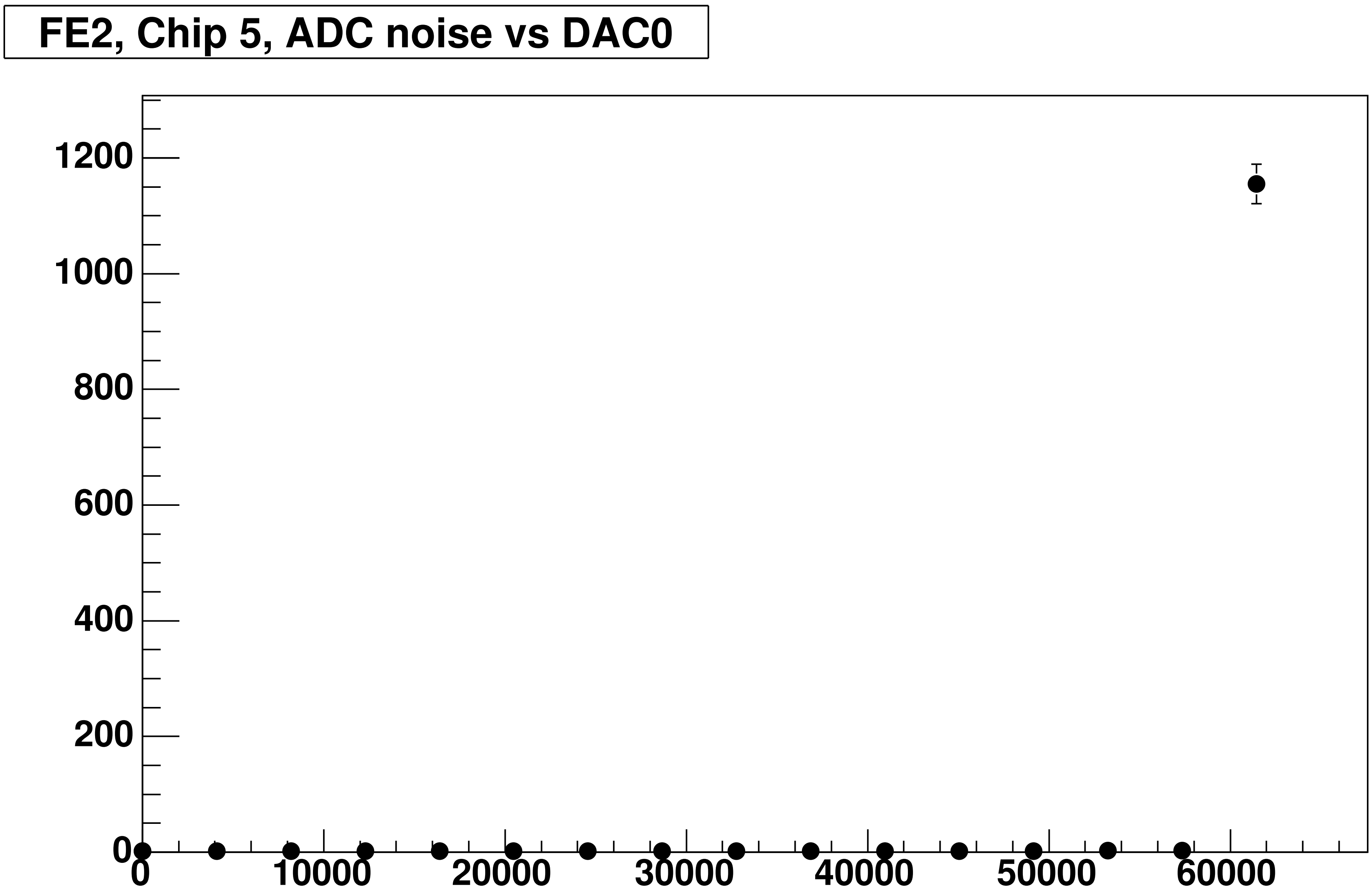
FE2, Chip 4, ADC mean vs DAC1
χ^2 / ndf 33.11 / 11
p0 17.4 ± 0.04097
p1 -5.2e-07 ± 1.149e-06
17.8
17.6
17.4
17.2
17
16.8
0
10000
20000
30000
40000
50000
60000

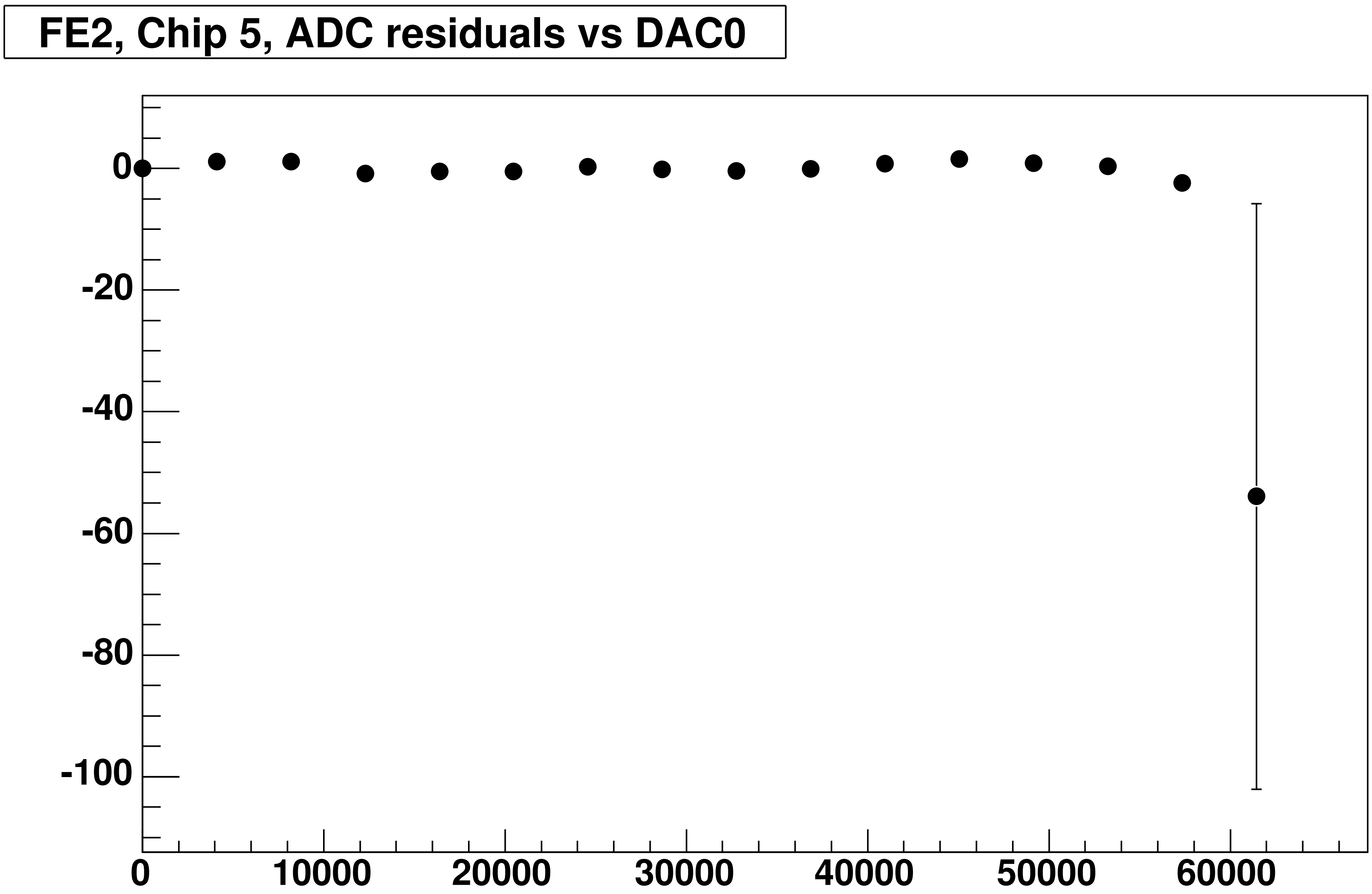

FE2, Chip 4, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

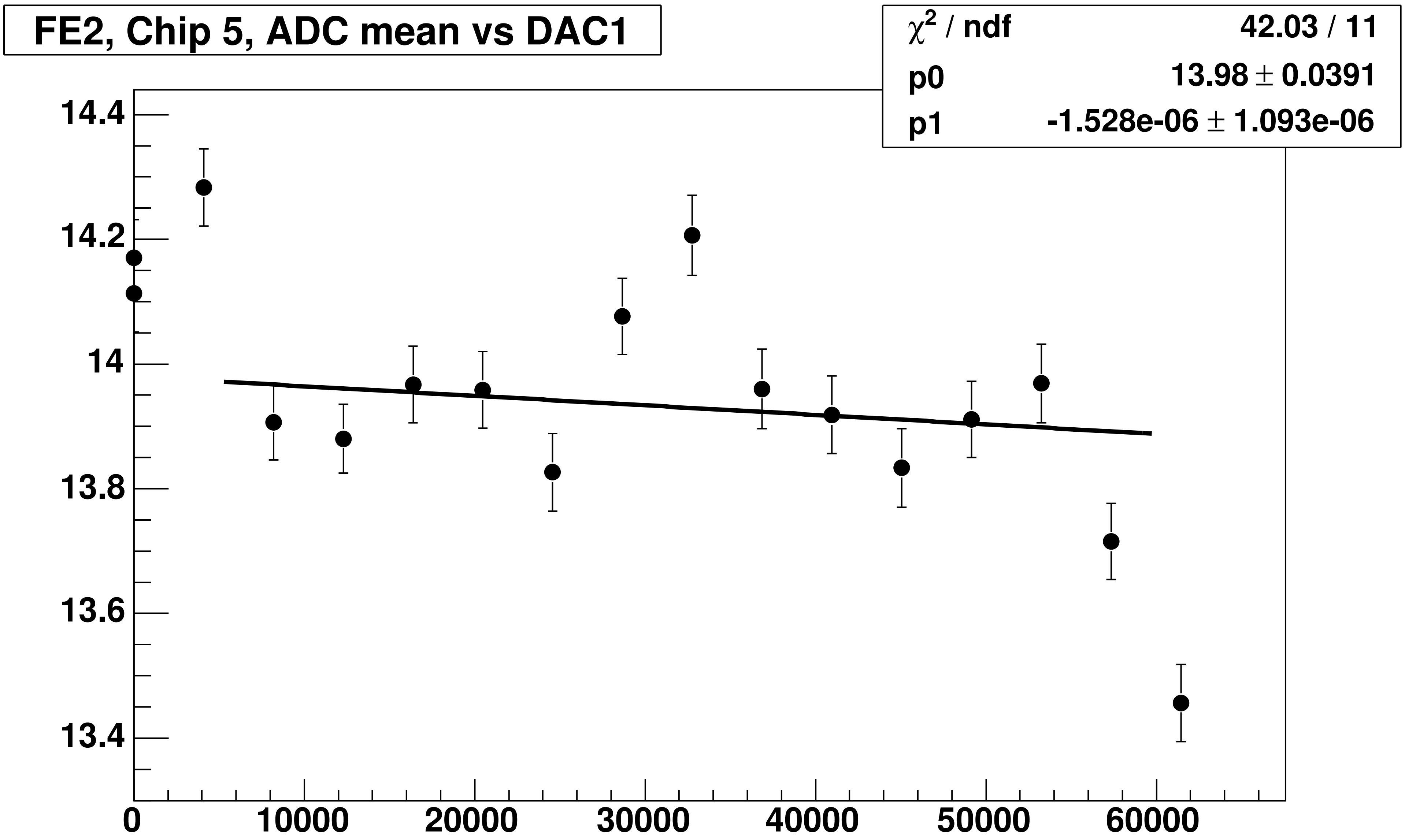


FE2, Chip 4, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

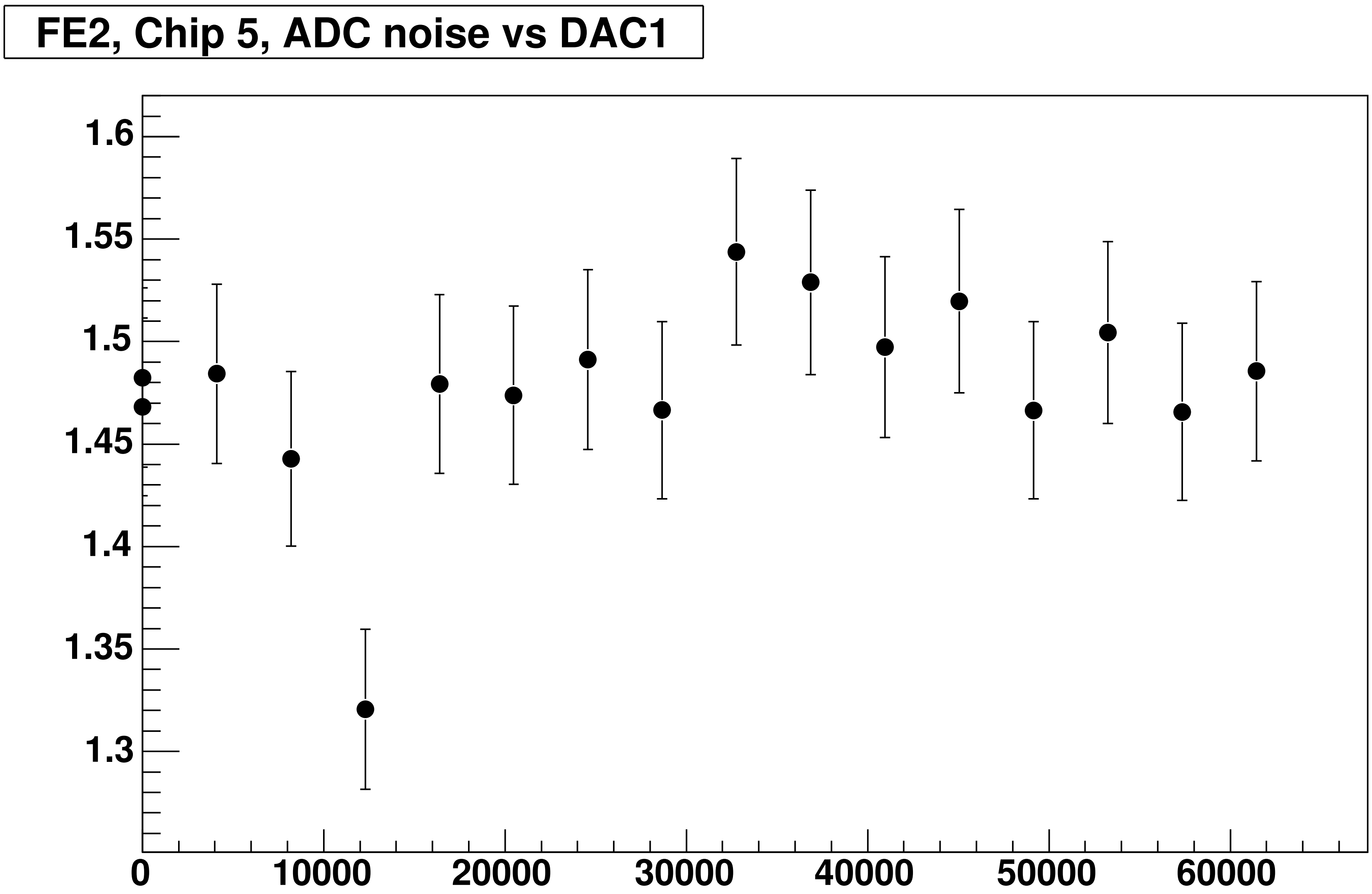

FE2, Chip 5, ADC mean vs DAC0
χ2 / ndf 1793 / 11
p0 13.7 ± 0.04271
p1 0.4511 ± 1.401e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

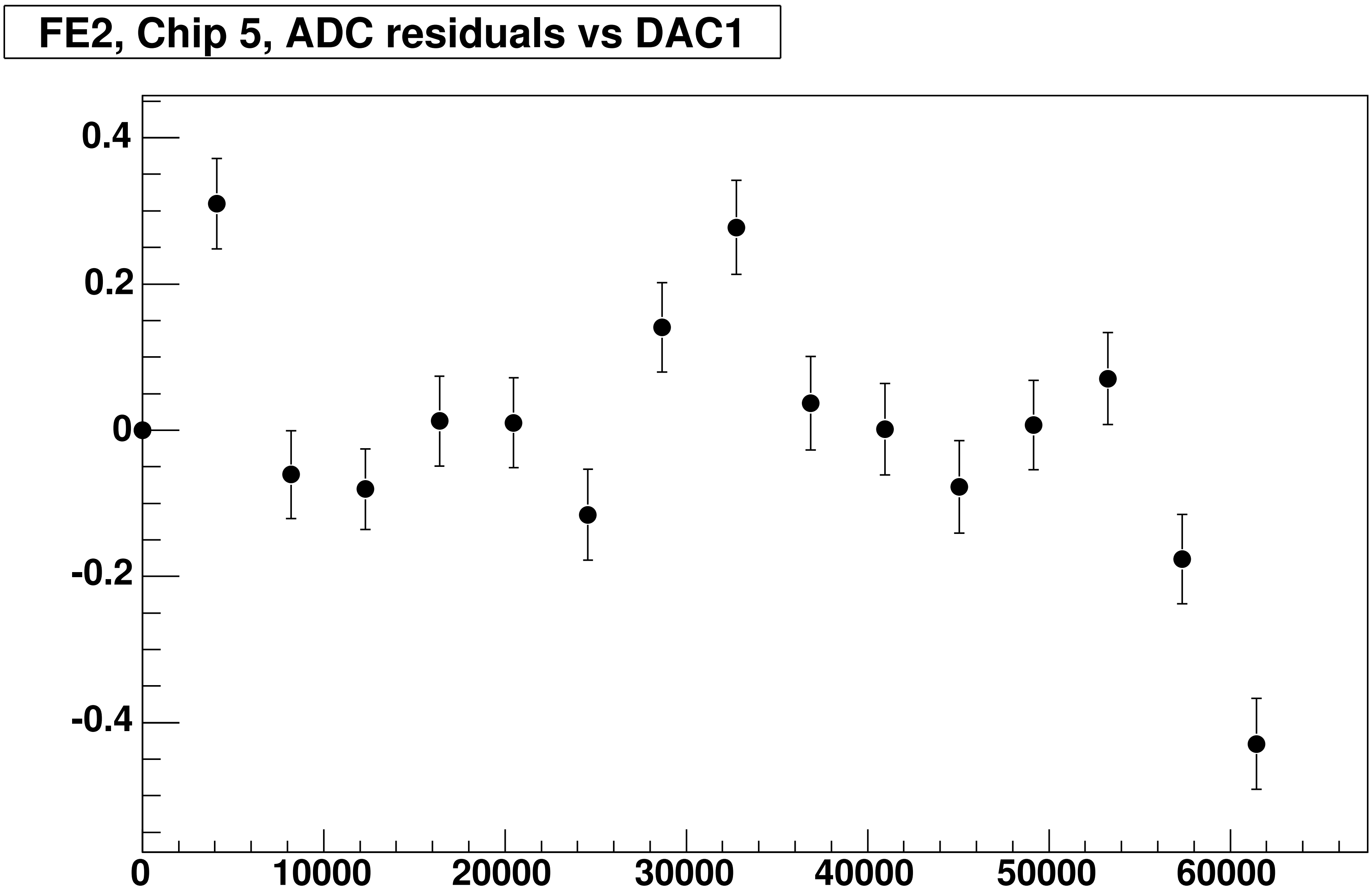

FE2, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

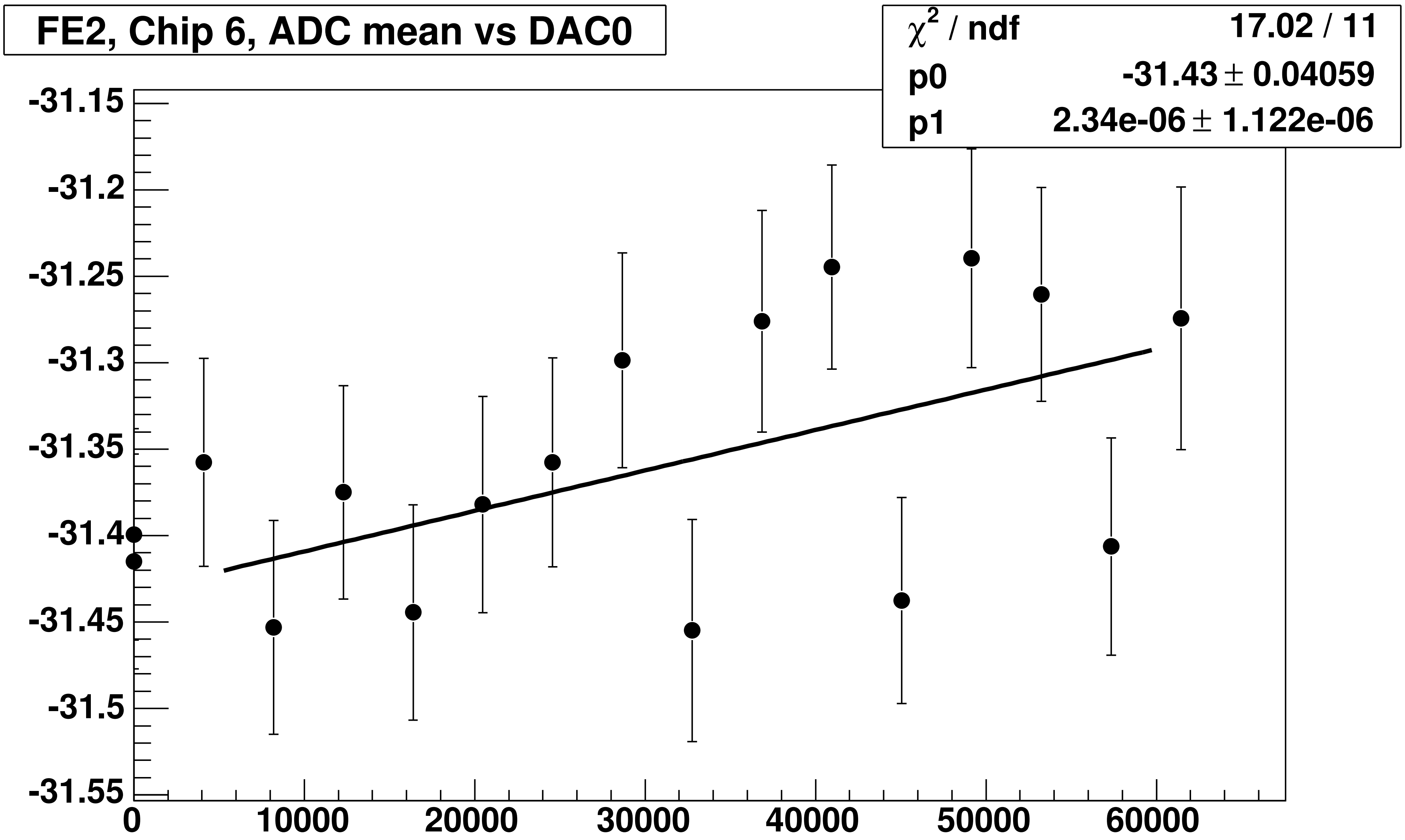


FE2, Chip 5, ADC mean vs DAC1
χ2 / ndf 42.03 / 11
p0 13.98 ± 0.0391
p1 -1.528e-06 ± 1.093e-06
14.4
14.2
14
13.8
13.6
13.4
0
10000
20000
30000
40000
50000
60000

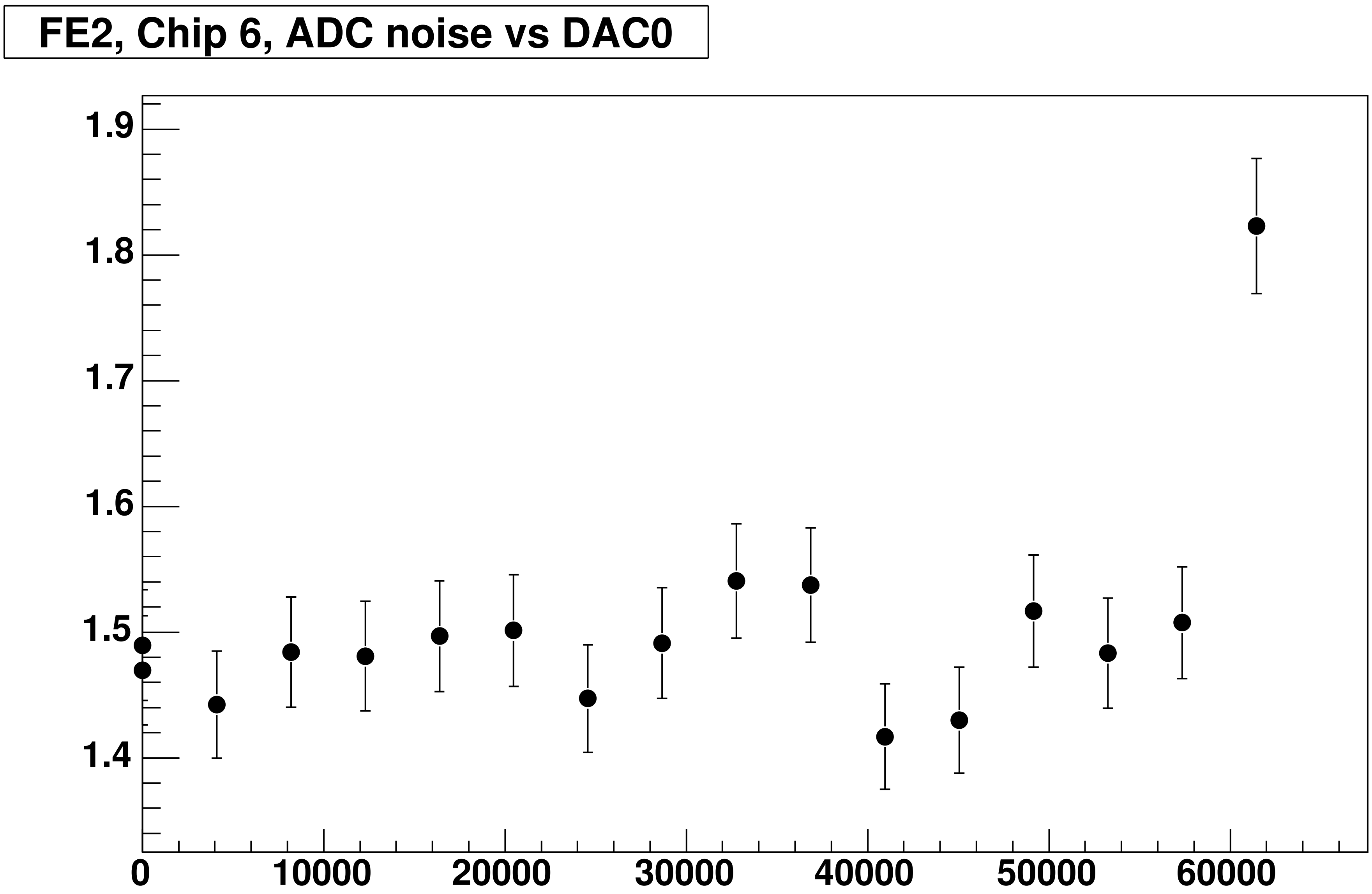

FE2, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



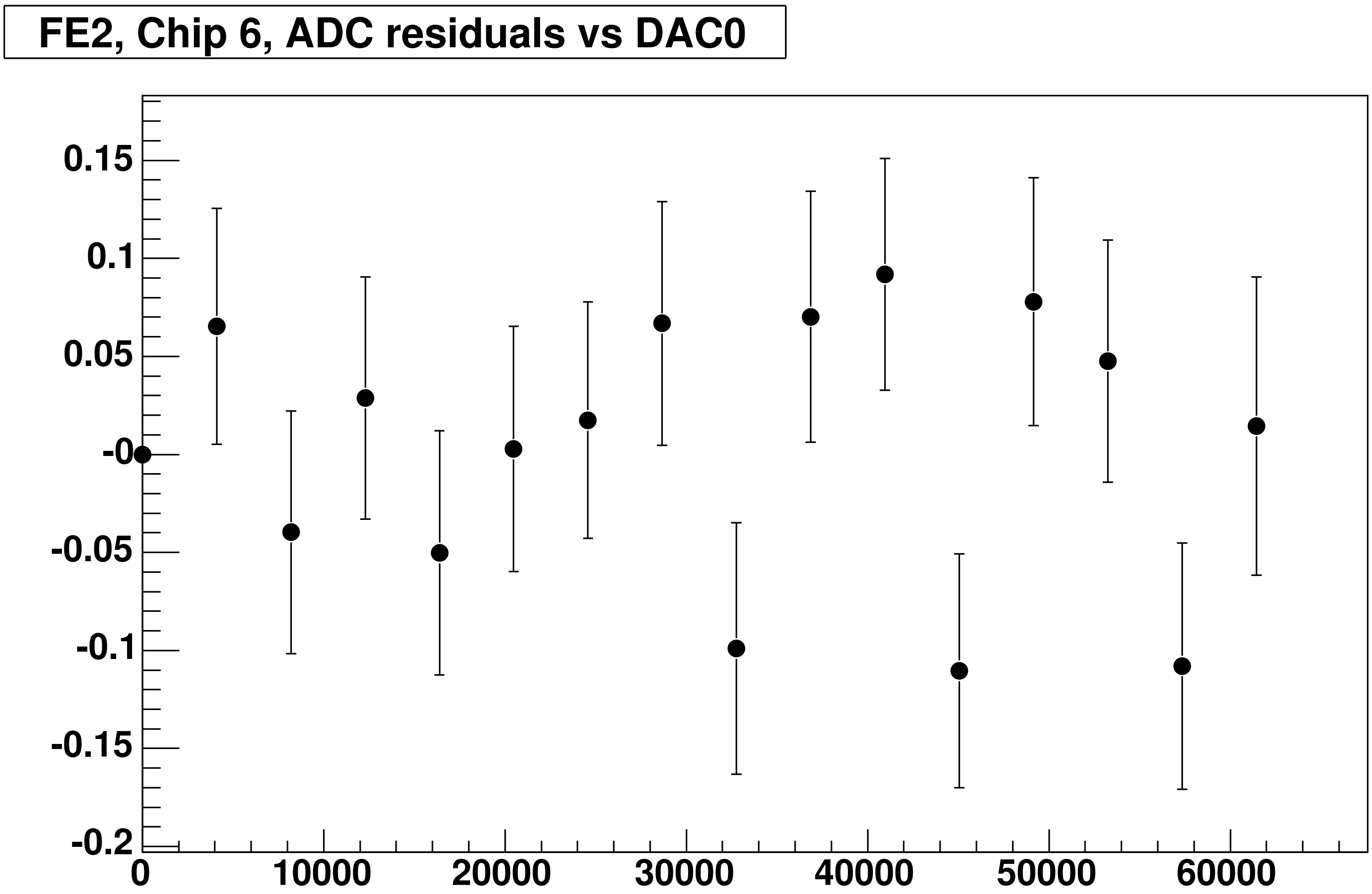
FE2, Chip 5, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000



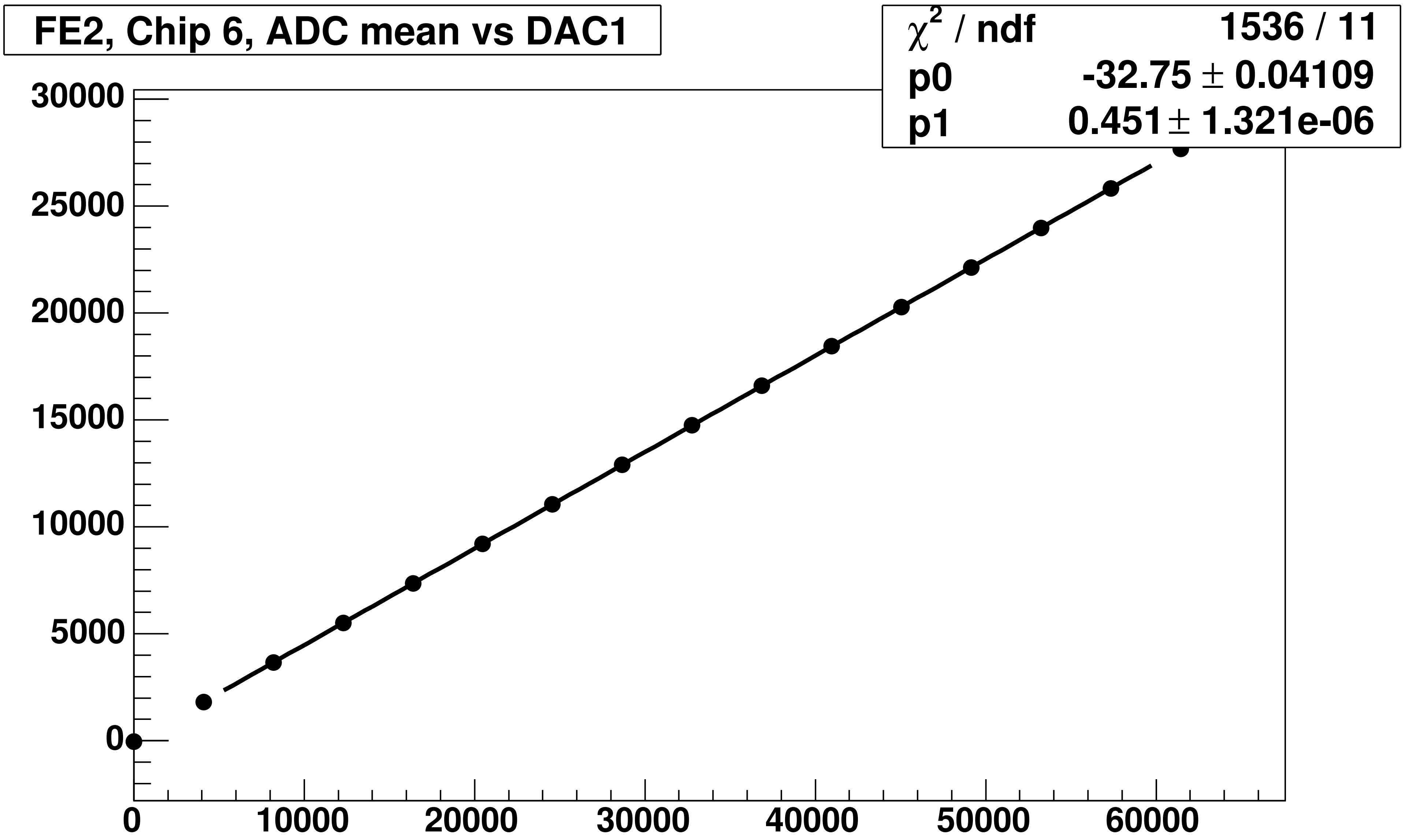
FE2, Chip 6, ADC mean vs DAC0
χ^2 / ndf 17.02 / 11
p0 -31.43 ± 0.04059
p1 2.34e-06 ± 1.122e-06
-31.15
-31.2
-31.25
-31.3
-31.35
-31.4
-31.45
-31.5
-31.55
0
10000
20000
30000
40000
50000
60000

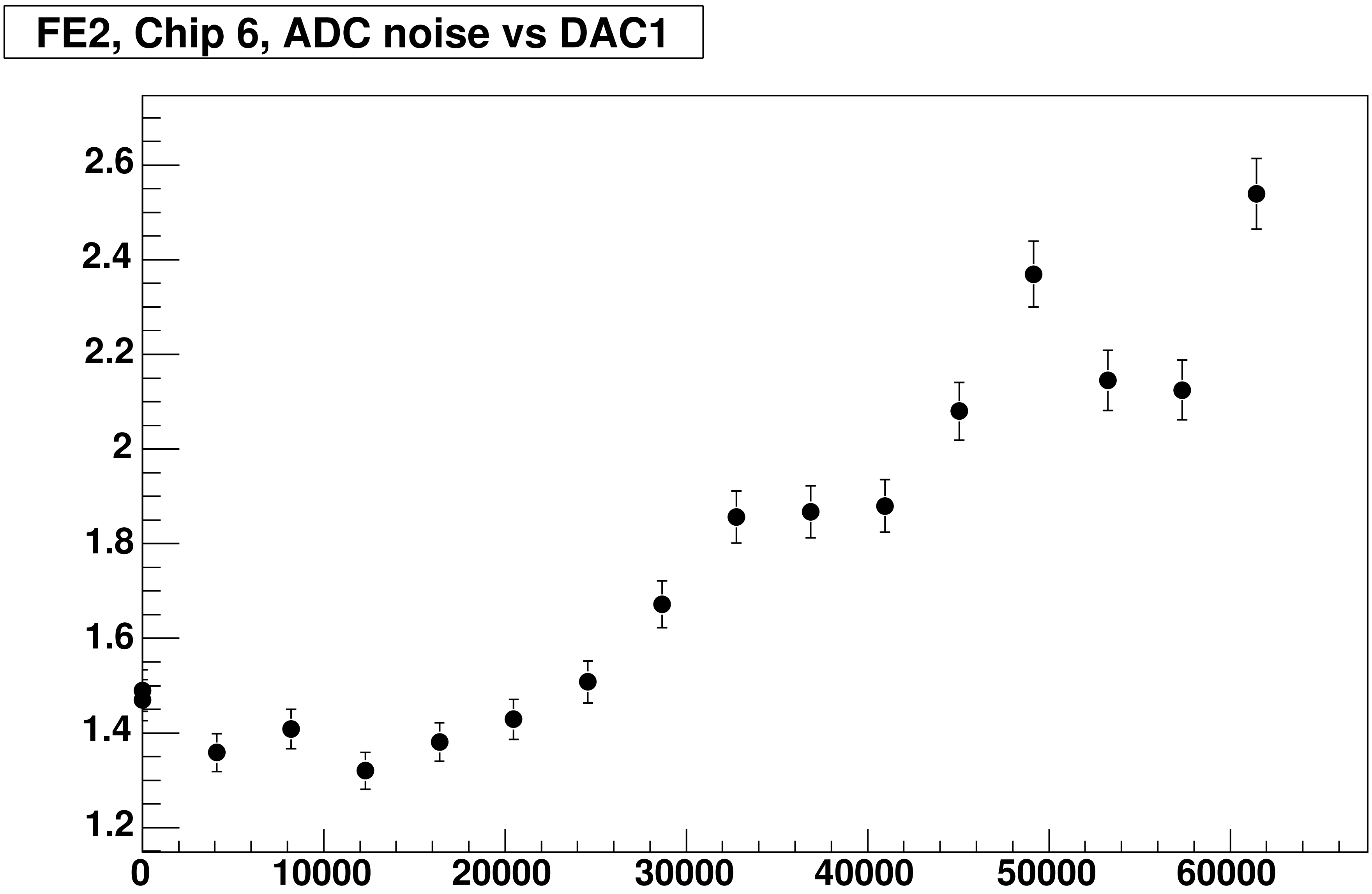


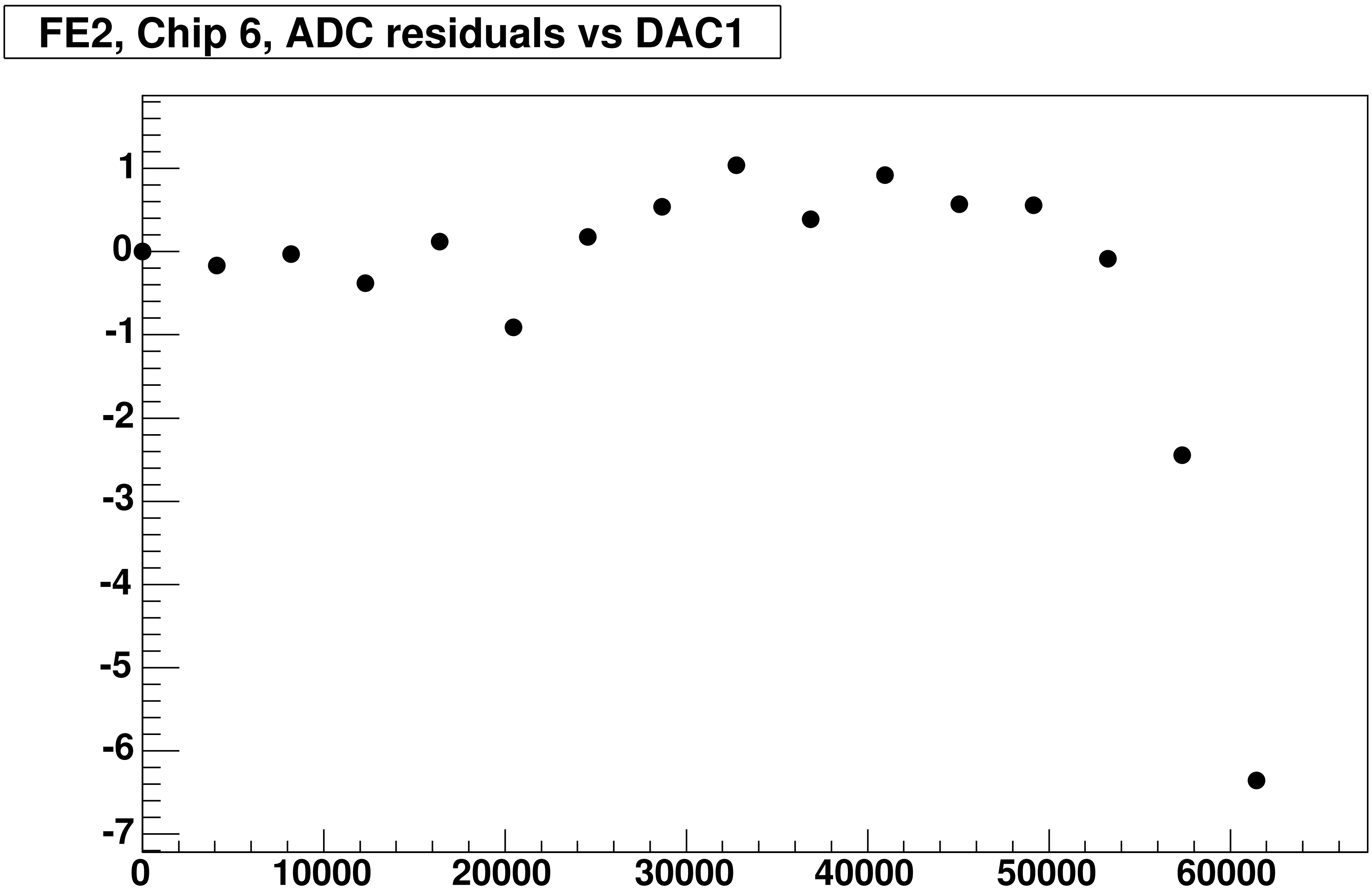
FE2, Chip 6, ADC noise vs DAC0
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

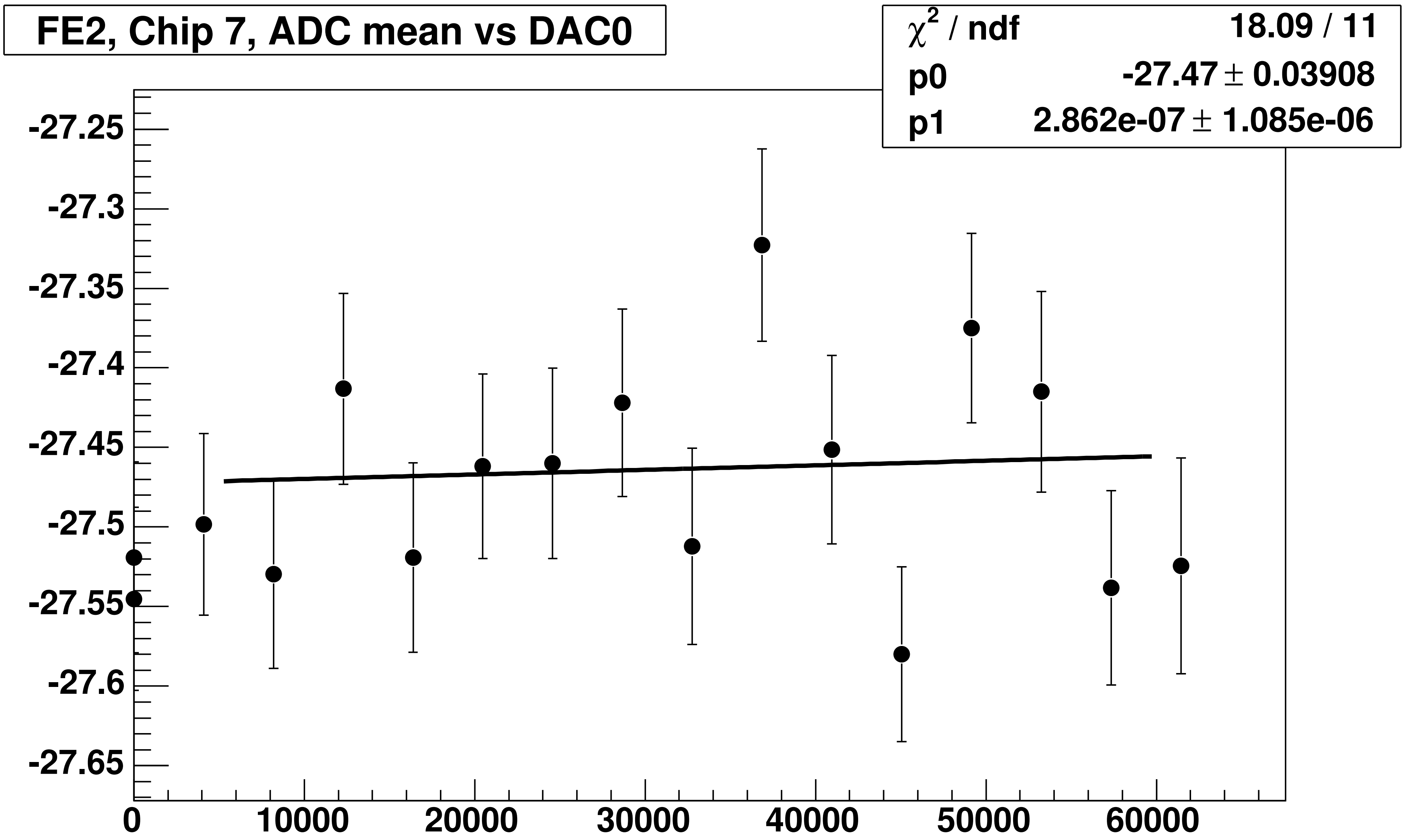


FE2, Chip 6, ADC residuals vs DAC0
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

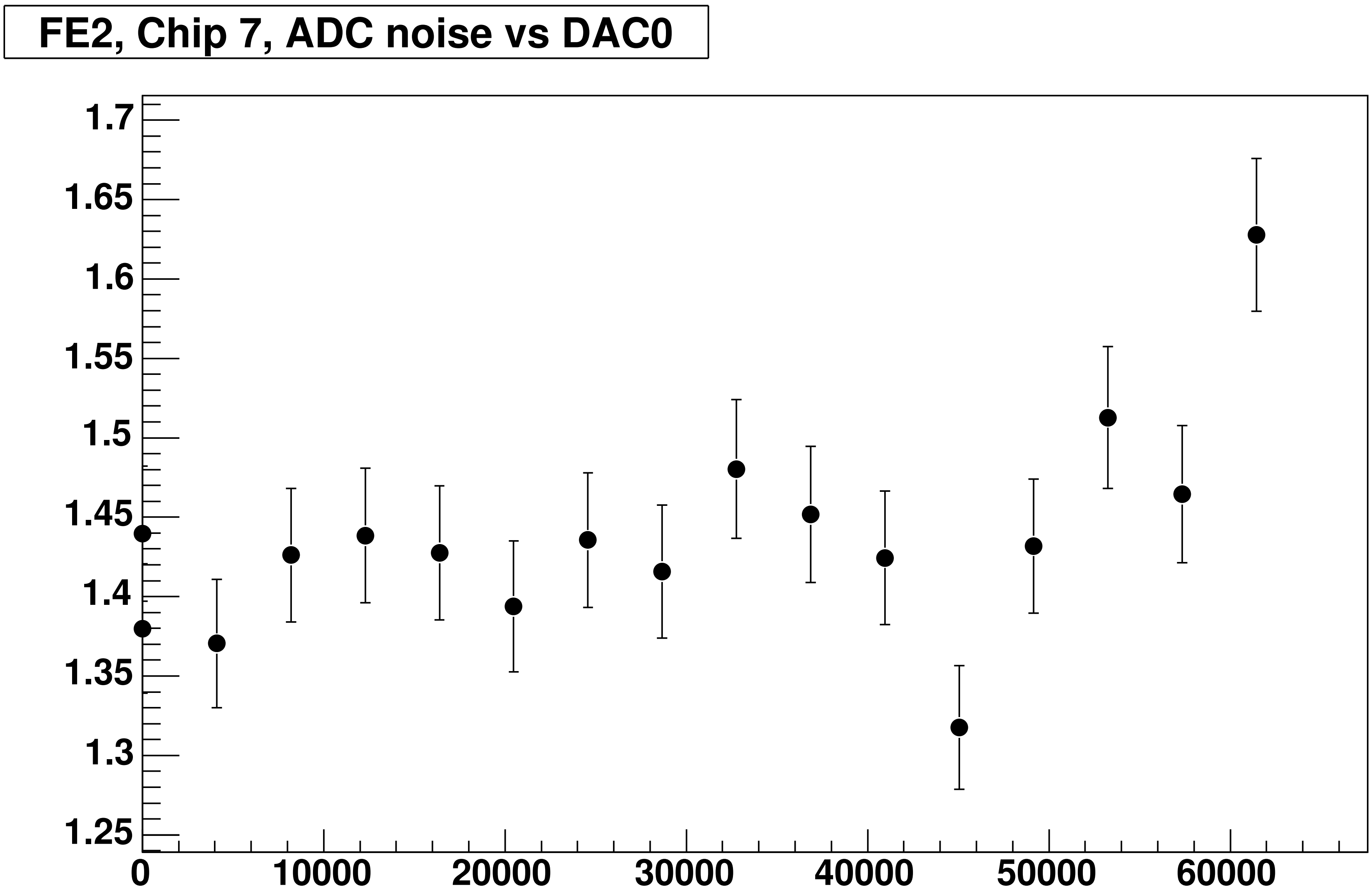

FE2, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1536 / 11
p0 -32.75 ± 0.04109
p1 0.451 ± 1.321e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

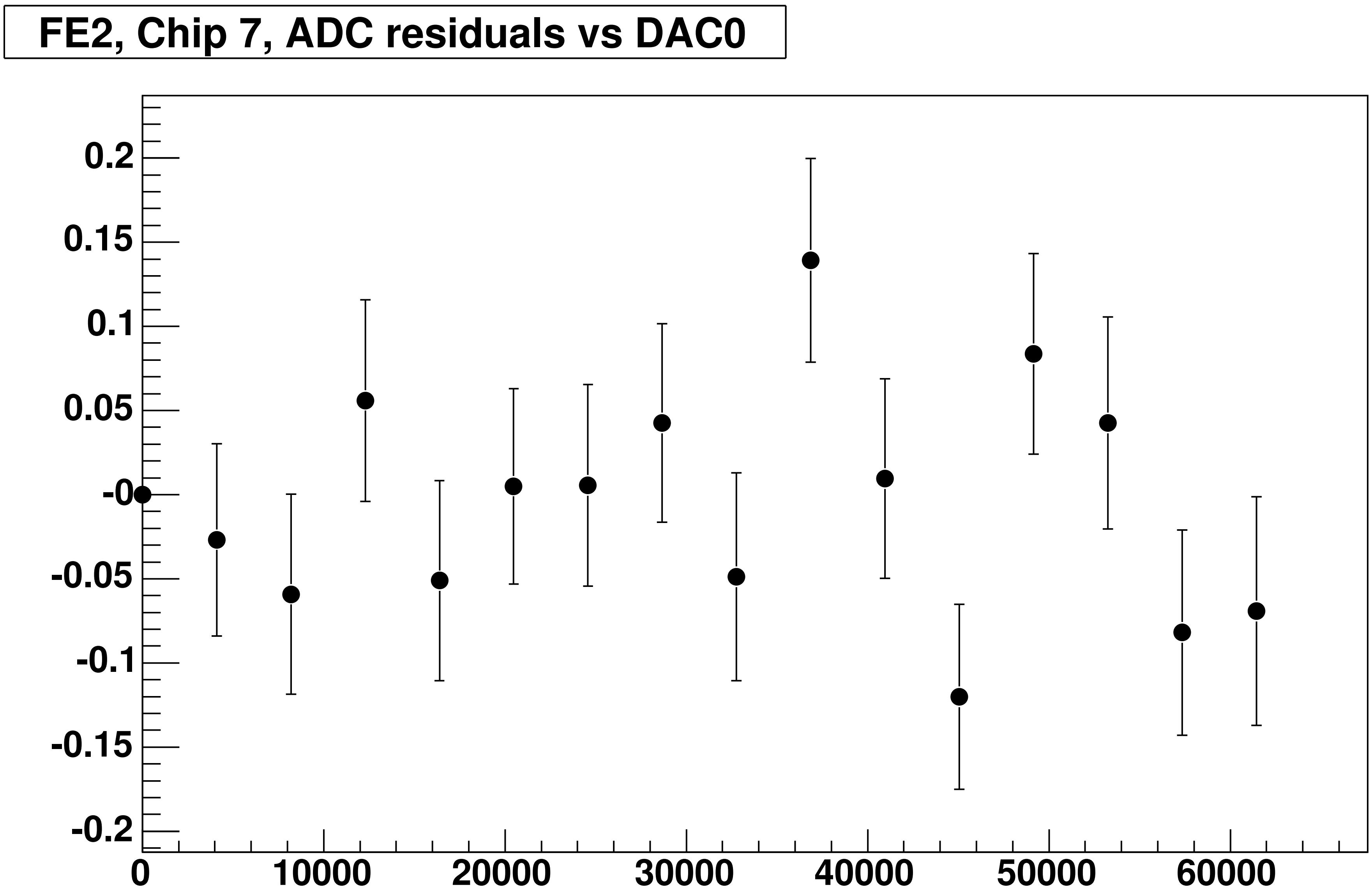

FE2, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE2, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

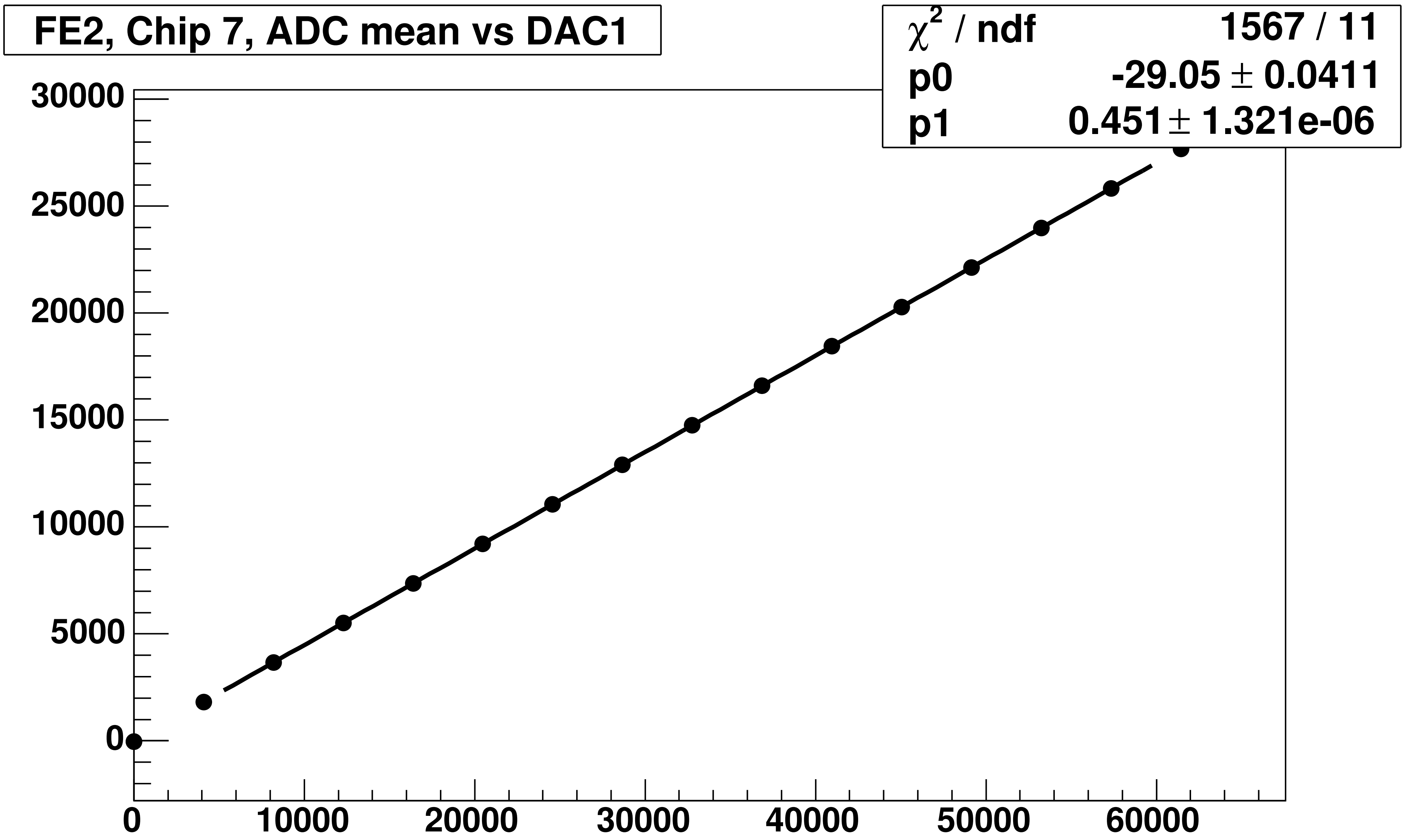


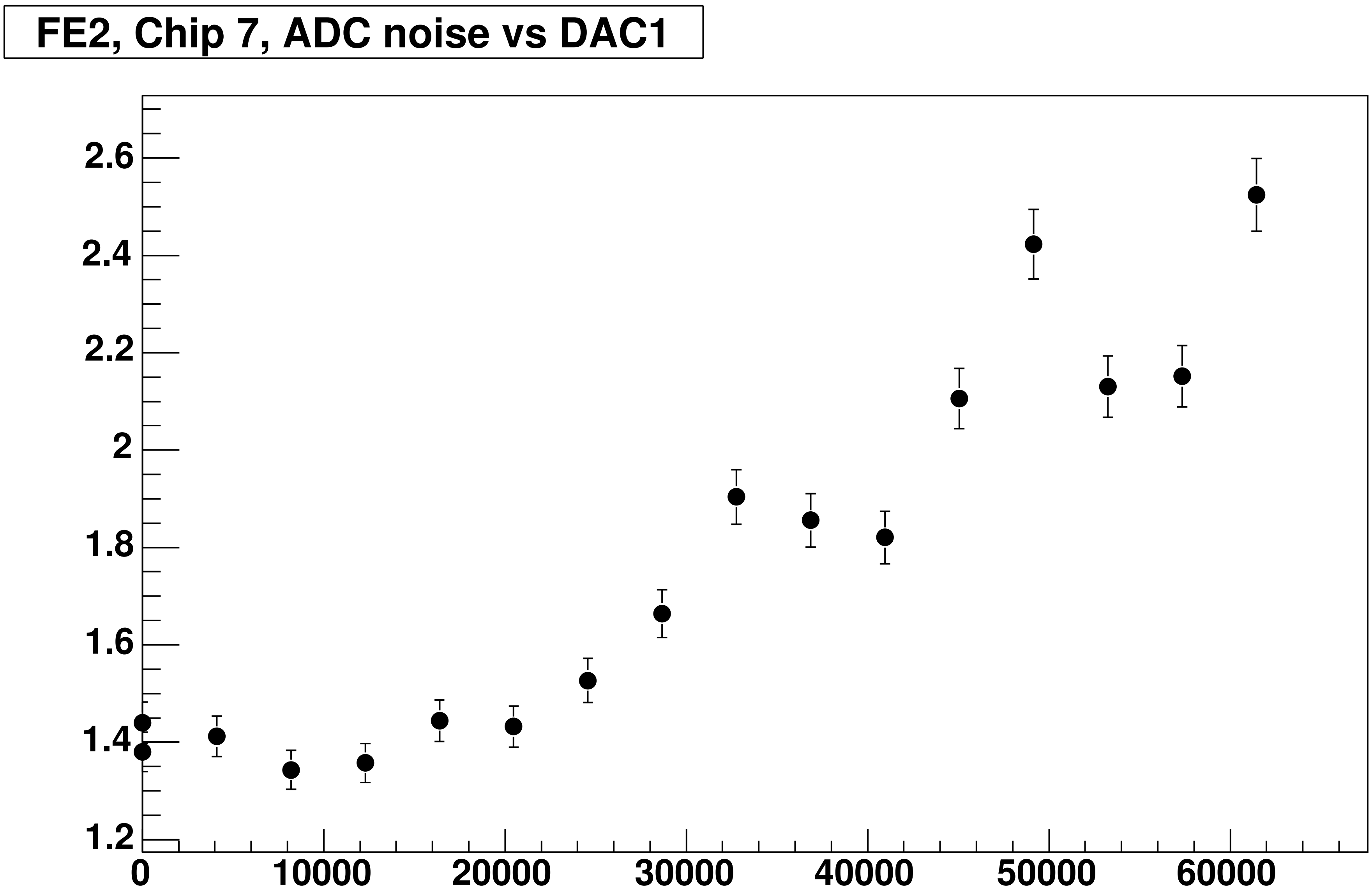
FE2, Chip 7, ADC mean vs DAC0
χ^2 / ndf 18.09 / 11
p0 -27.47 ± 0.03908
p1 2.862e-07 ± 1.085e-06
-27.25
-27.3
-27.35
-27.4
-27.45
-27.5
-27.55
-27.6
-27.65
0
10000
20000
30000
40000
50000
60000


FE2, Chip 7, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000

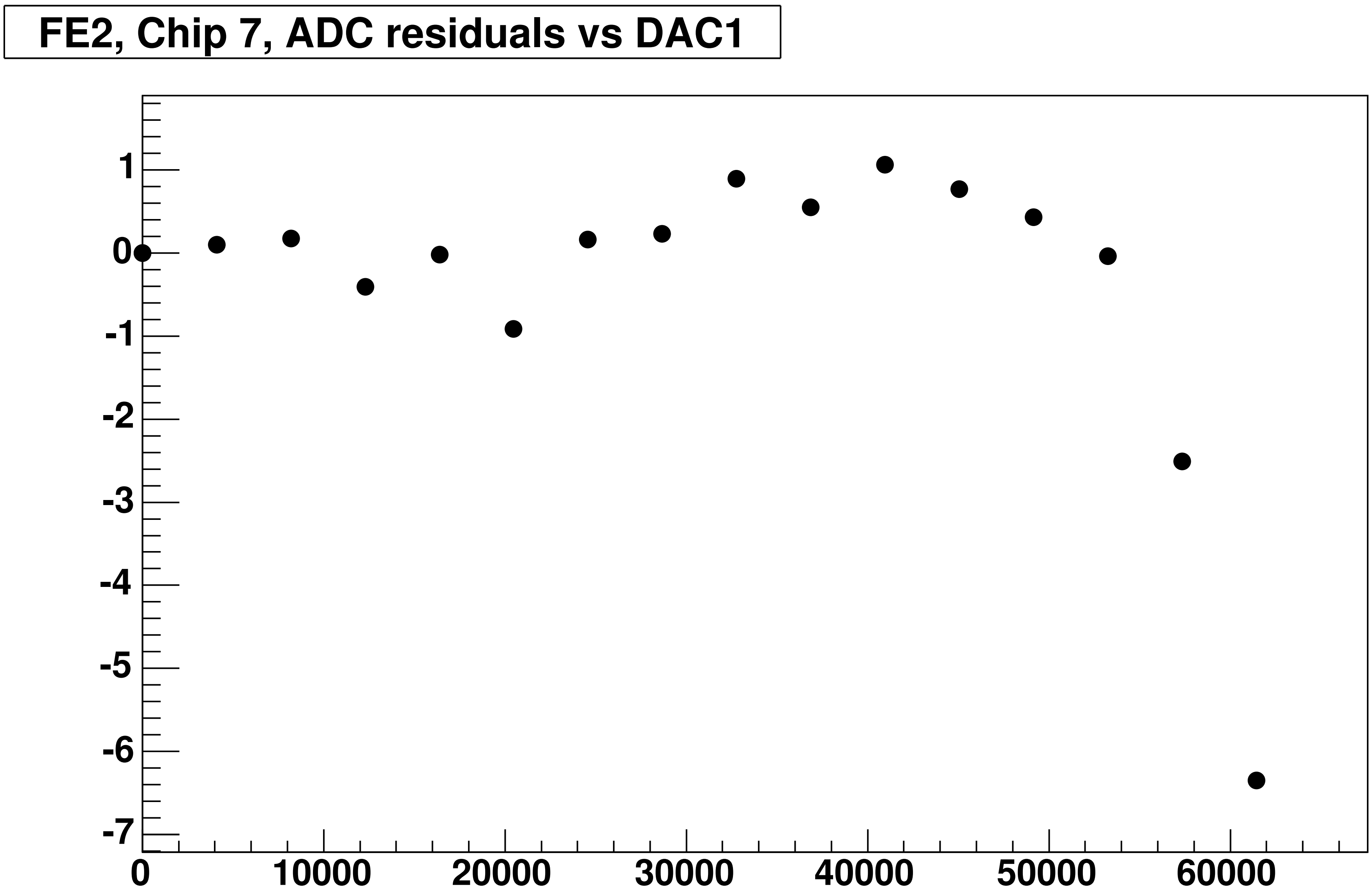


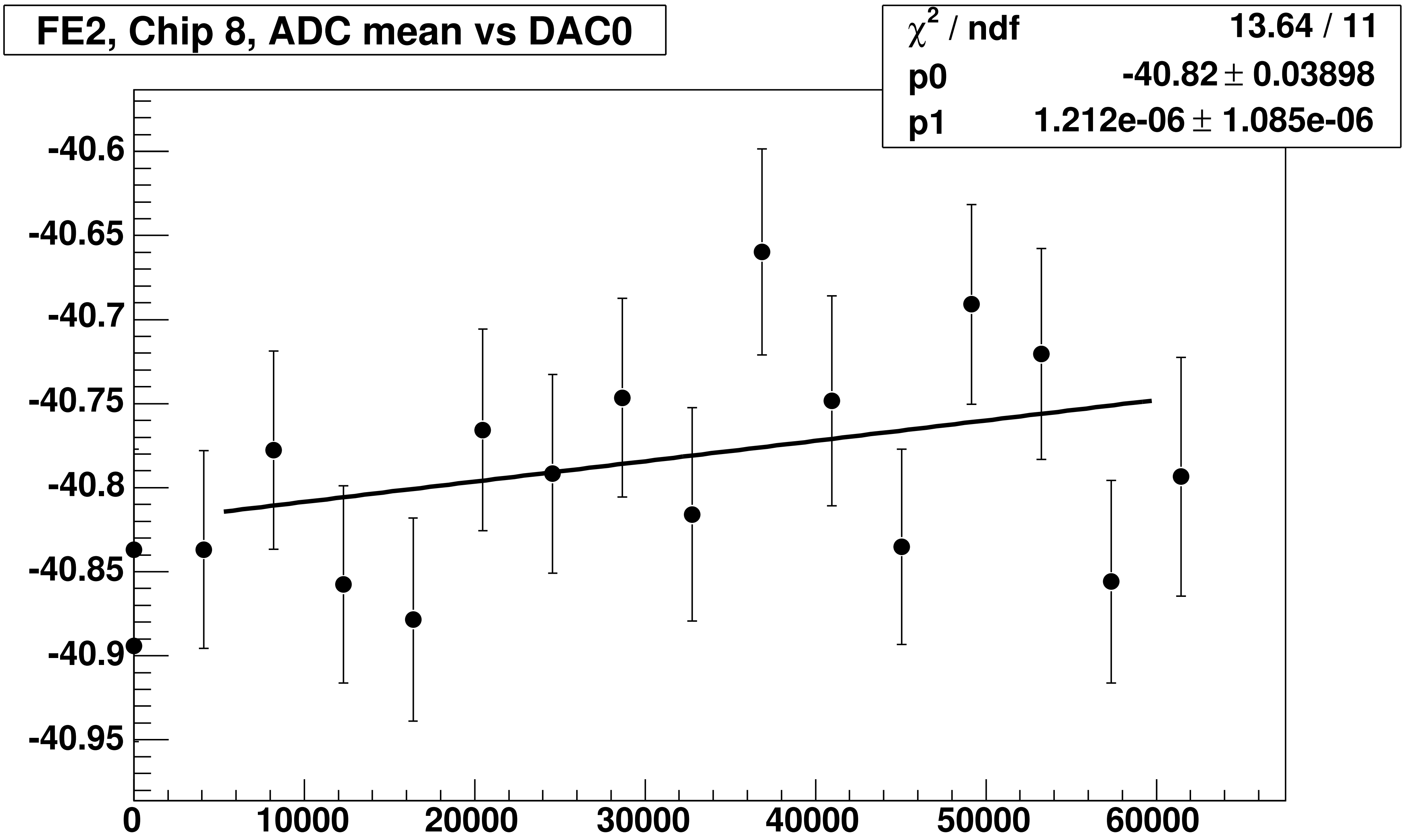
FE2, Chip 7, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE2, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1567 / 11
p0 -29.05 ± 0.0411
p1 0.451 ± 1.321e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

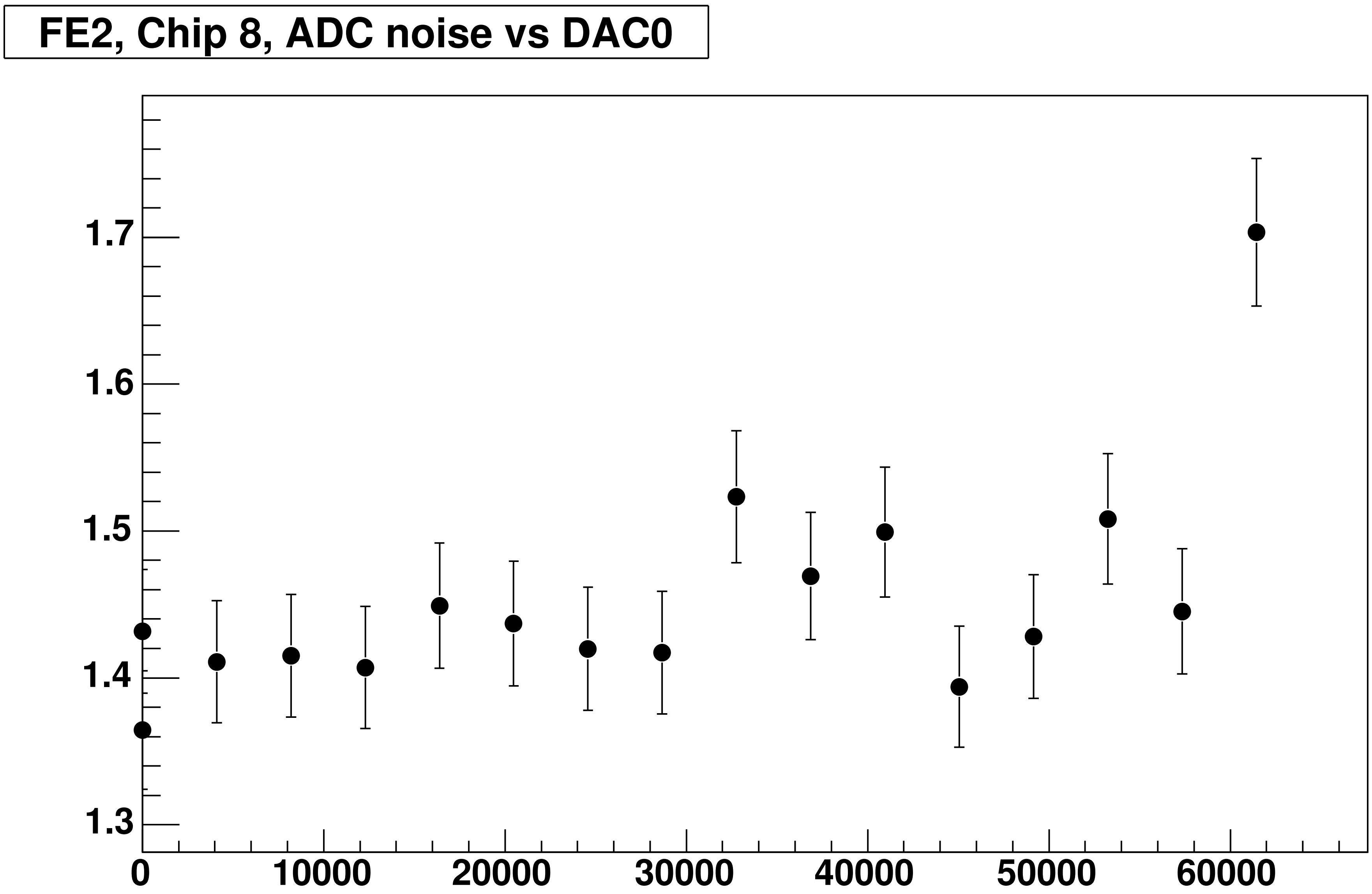


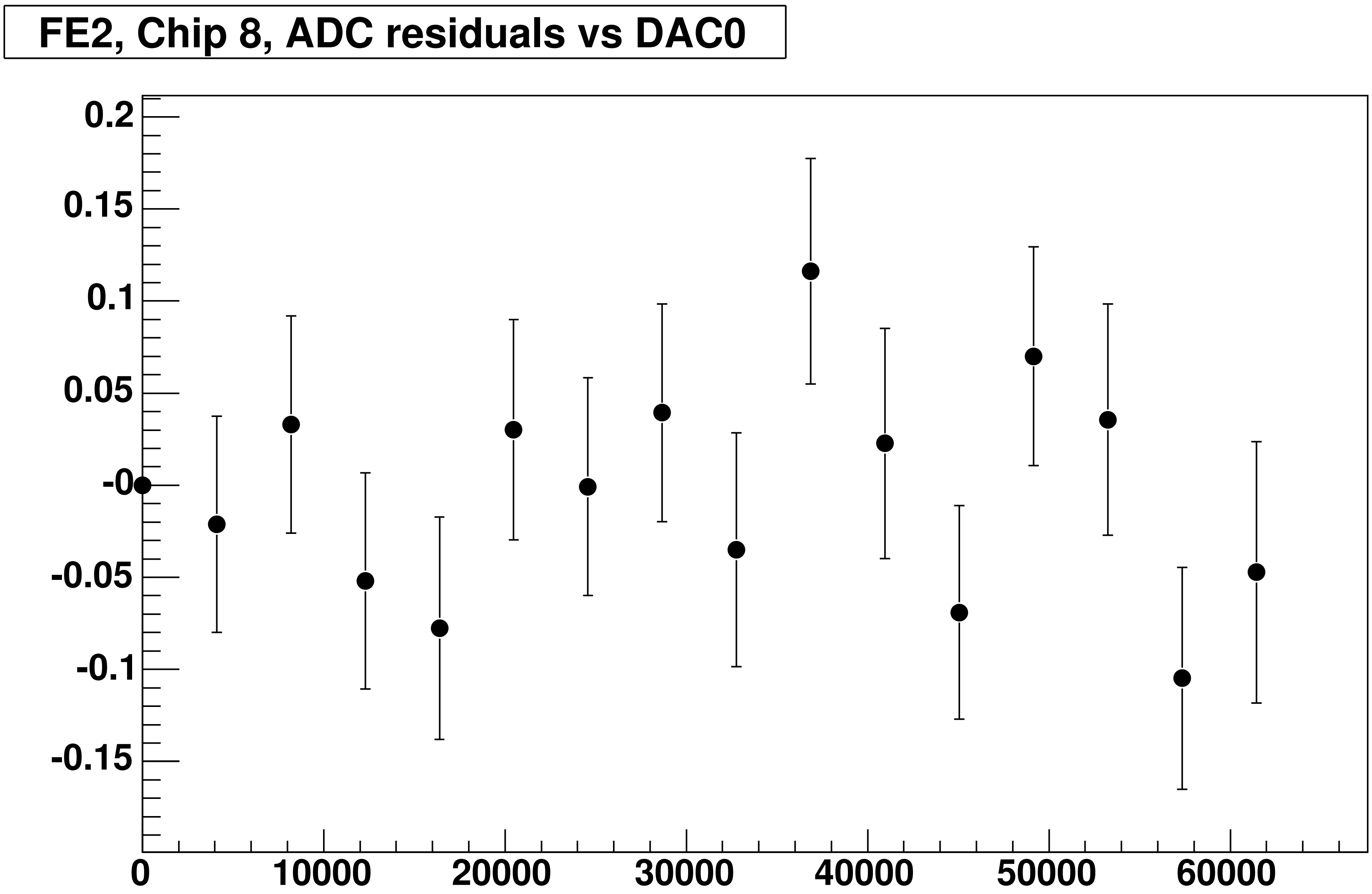
FE2, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

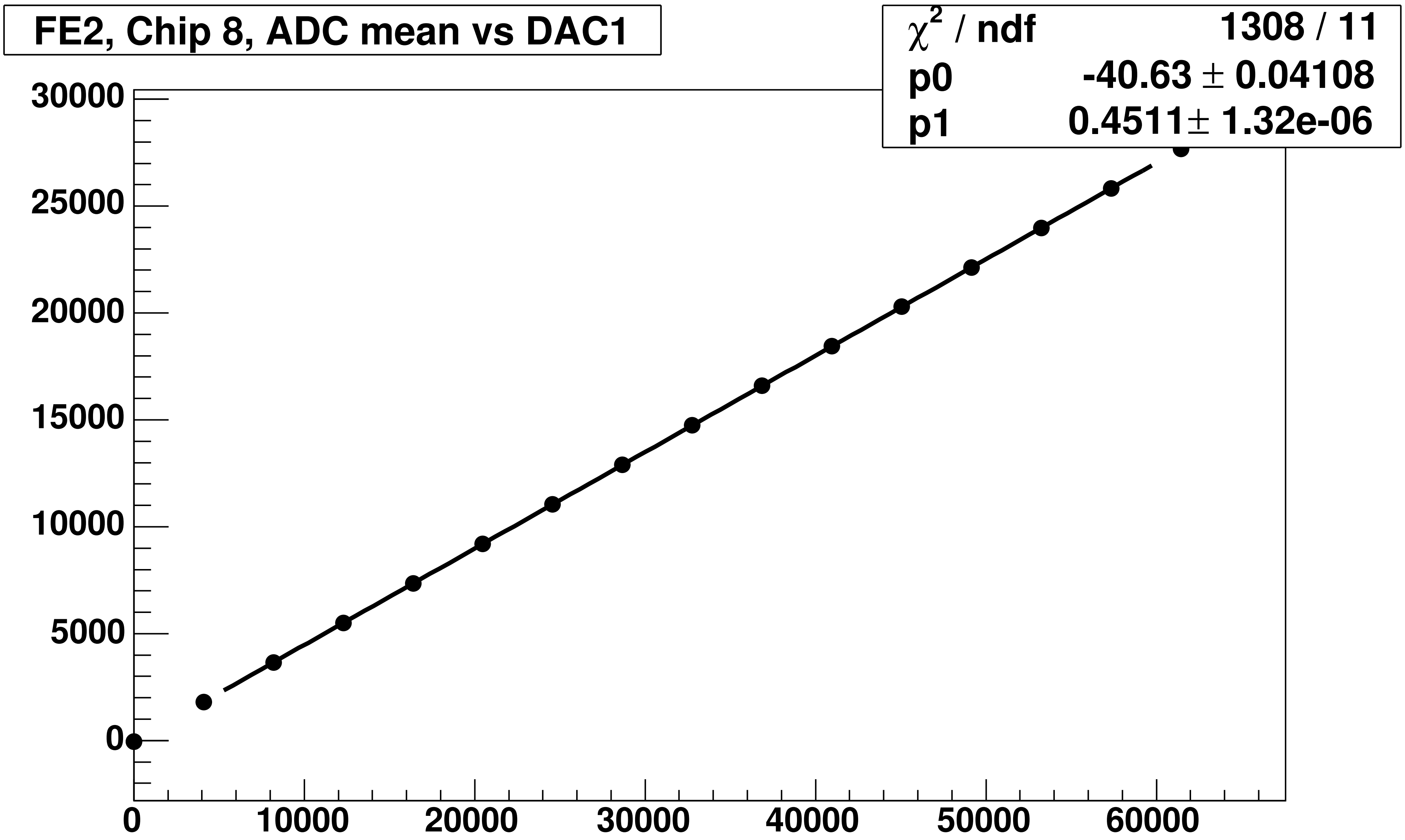

FE2, Chip 7, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

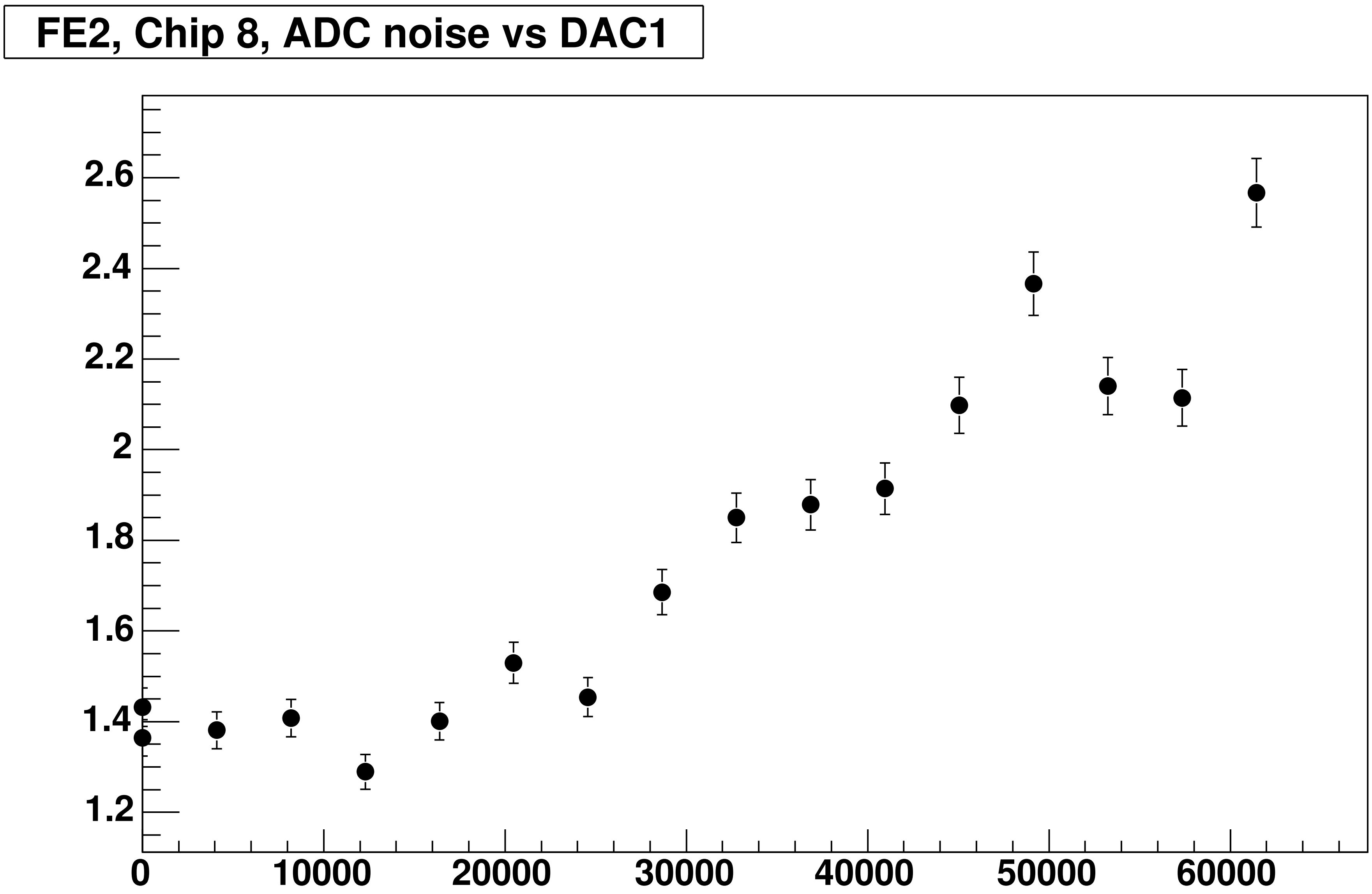


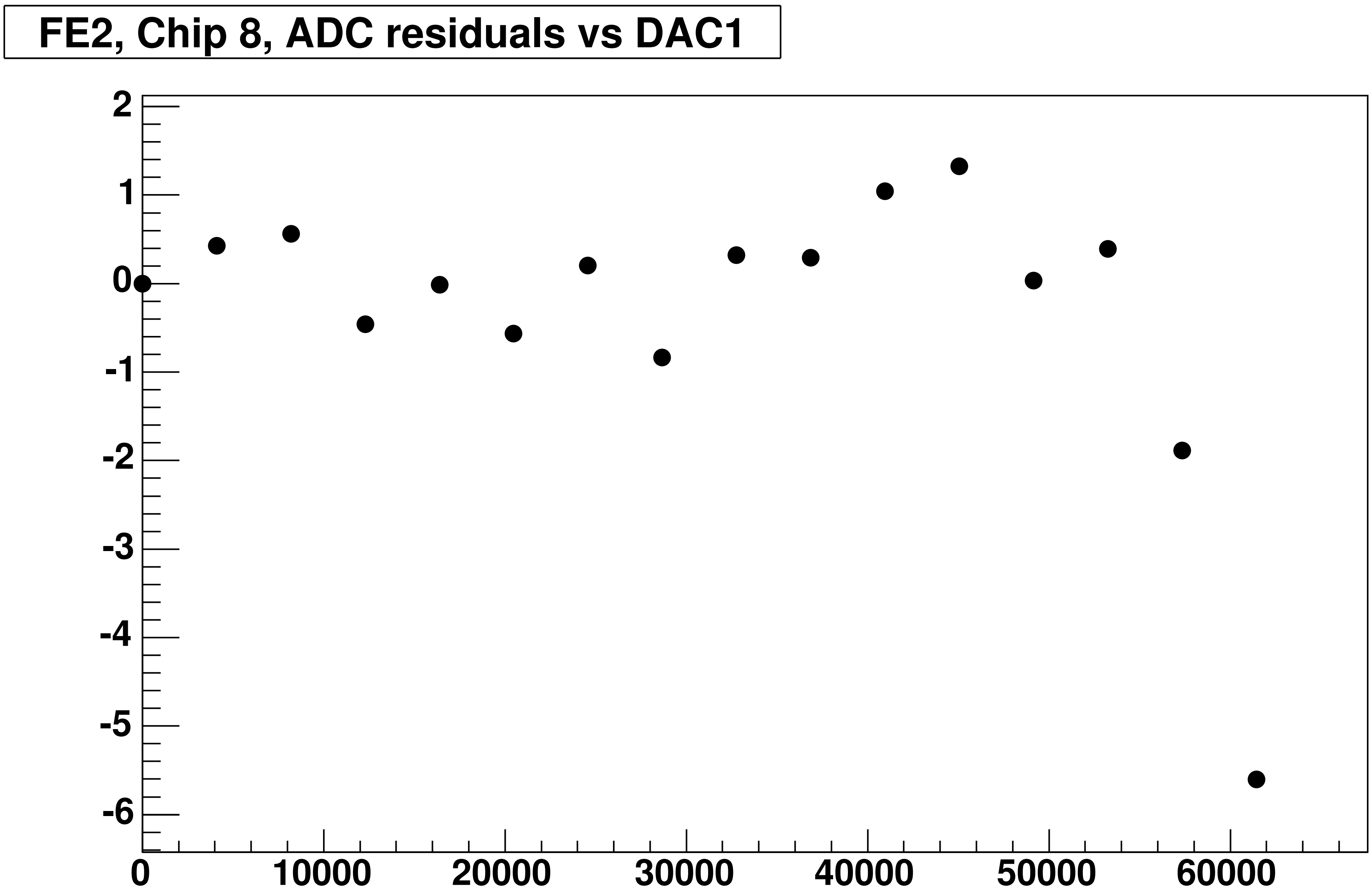
FE2, Chip 8, ADC mean vs DAC0
χ^2 / ndf 13.64 / 11
p0 -40.82 ± 0.03898
p1 1.212e-06 ± 1.085e-06
-40.6
-40.65
-40.7
-40.75
-40.8
-40.85
-40.9
-40.95
0
10000
20000
30000
40000
50000
60000


FE2, Chip 8, ADC noise vs DAC0
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

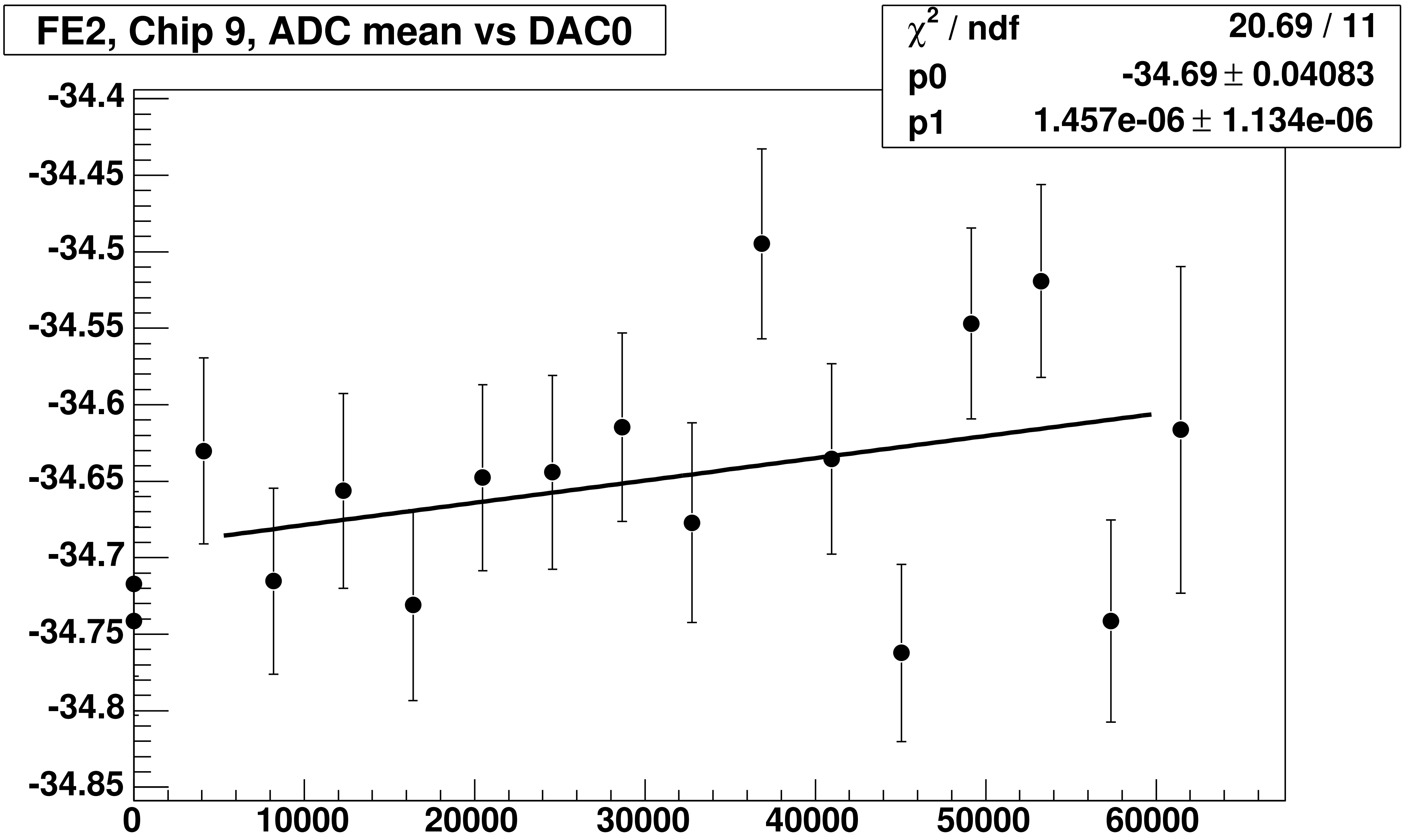

FE2, Chip 8, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000


FE2, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1308 / 11
p0 -40.63 ± 0.04108
p1 0.4511± 1.32e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

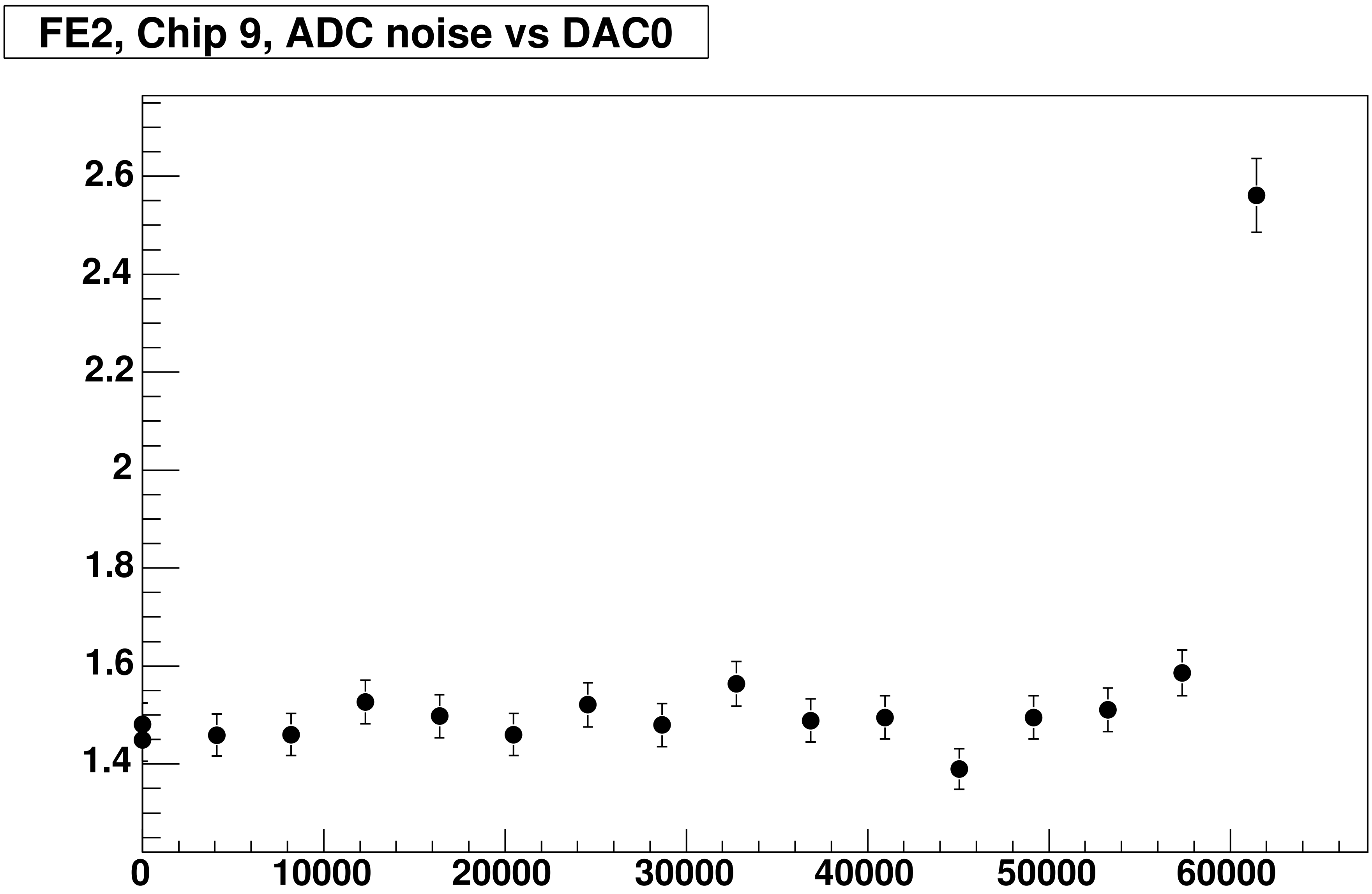

FE2, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

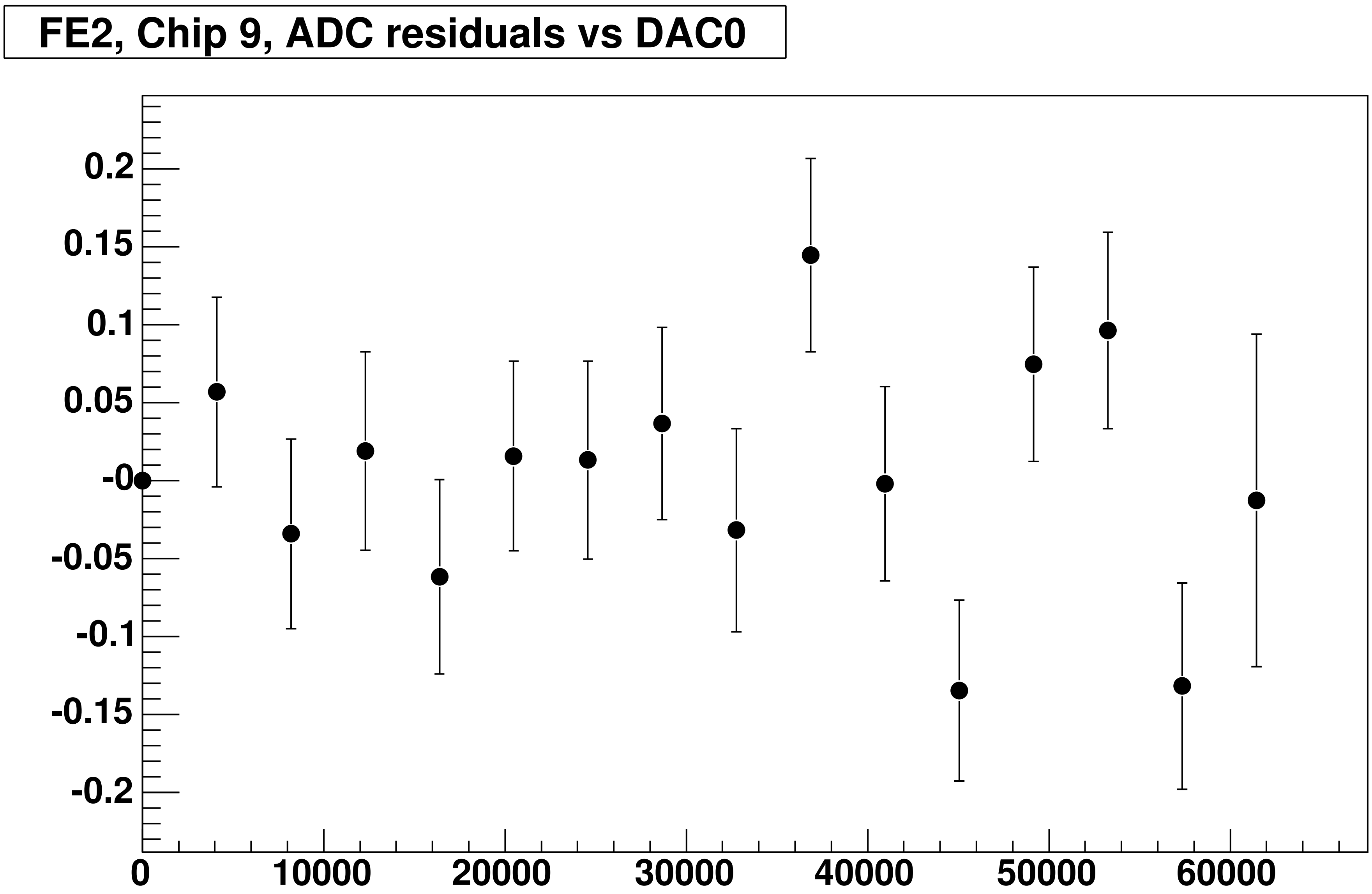


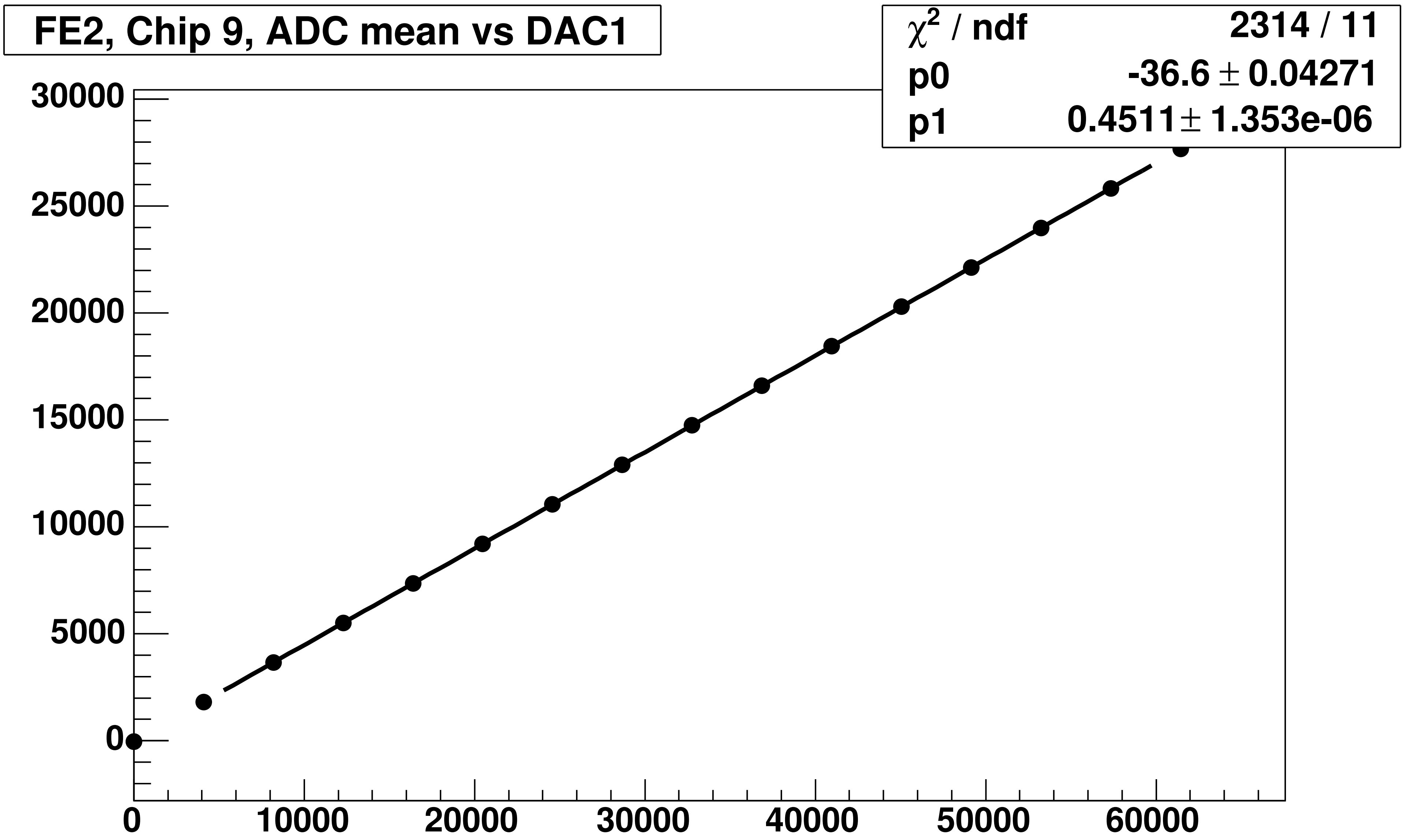
FE2, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



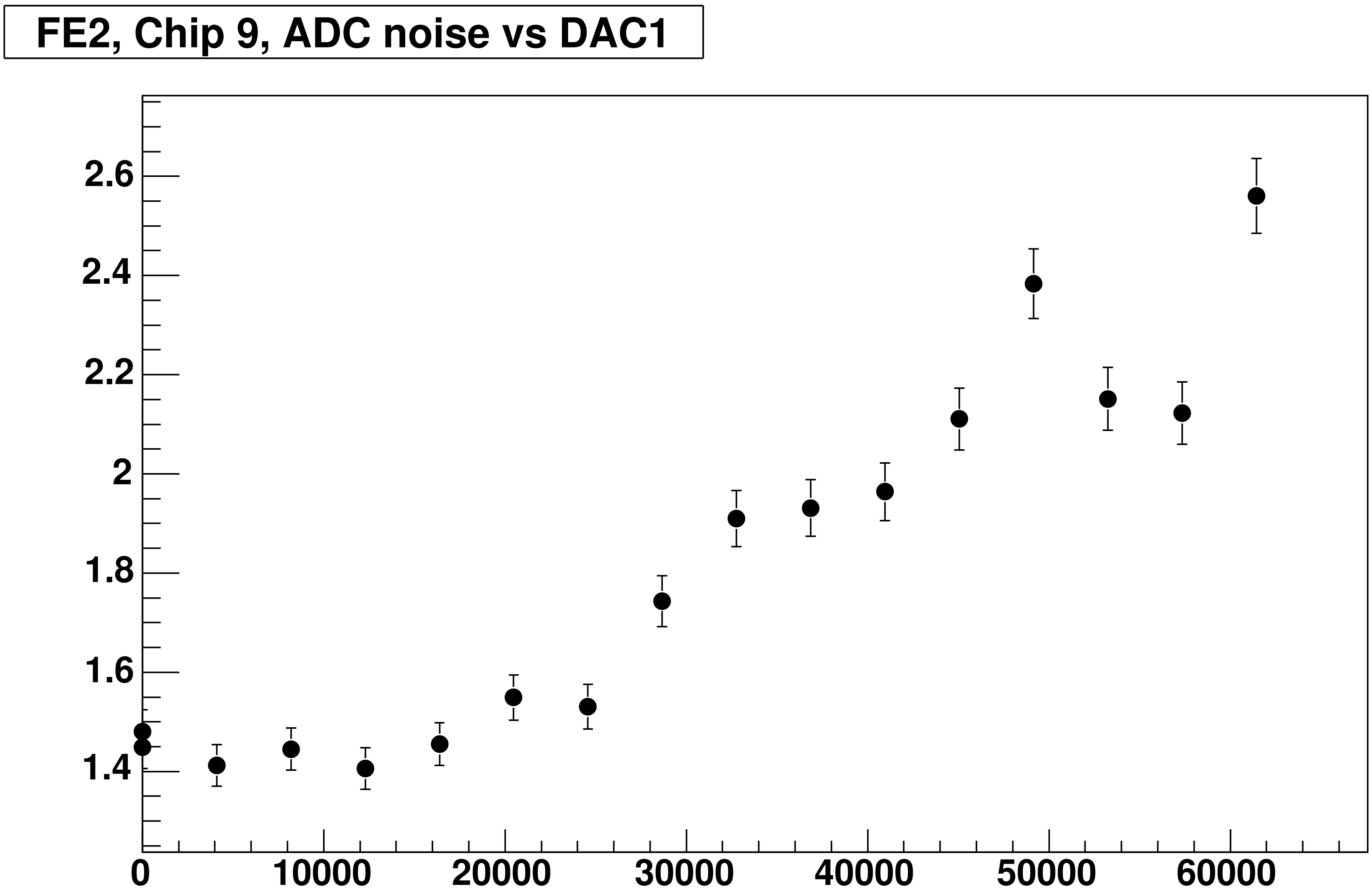
FE2, Chip 9, ADC mean vs DAC0
χ^2 / ndf 20.69 / 11
p0 -34.69 ± 0.04083
p1 1.457e-06 ± 1.134e-06
-34.4
-34.45
-34.5
-34.55
-34.6
-34.65
-34.7
-34.75
-34.8
-34.85
0
10000
20000
30000
40000
50000
60000

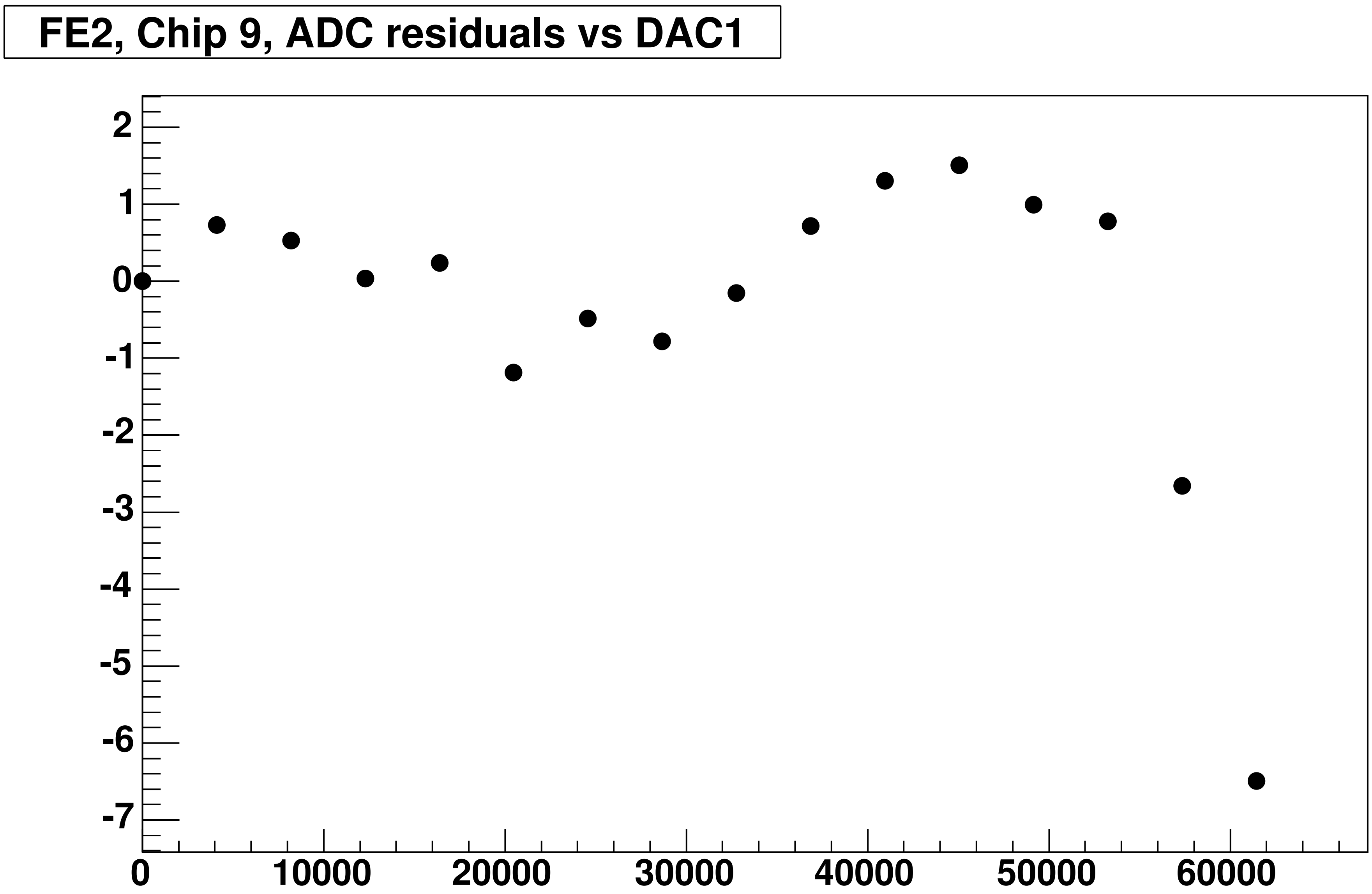

FE2, Chip 9, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

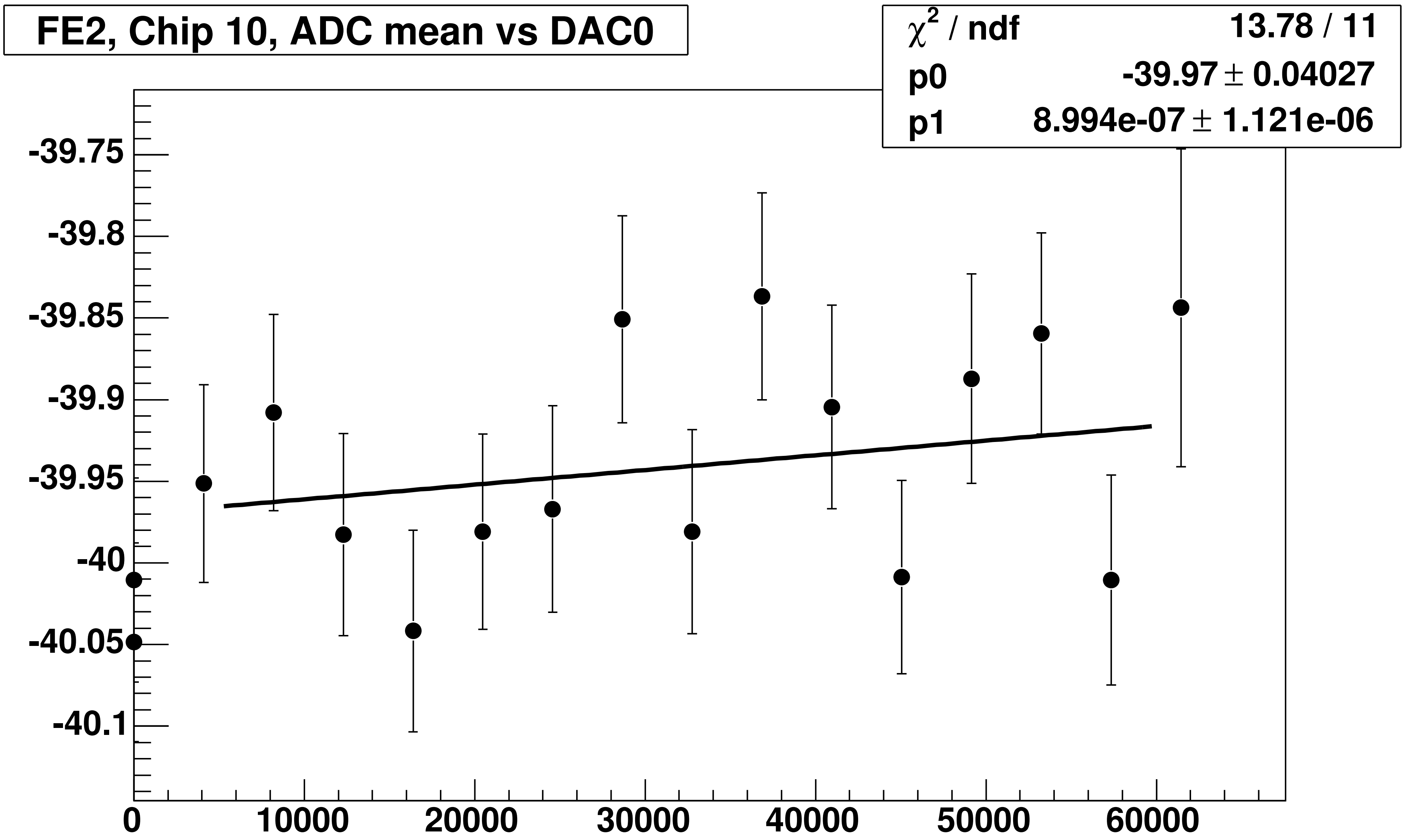

FE2, Chip 9, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



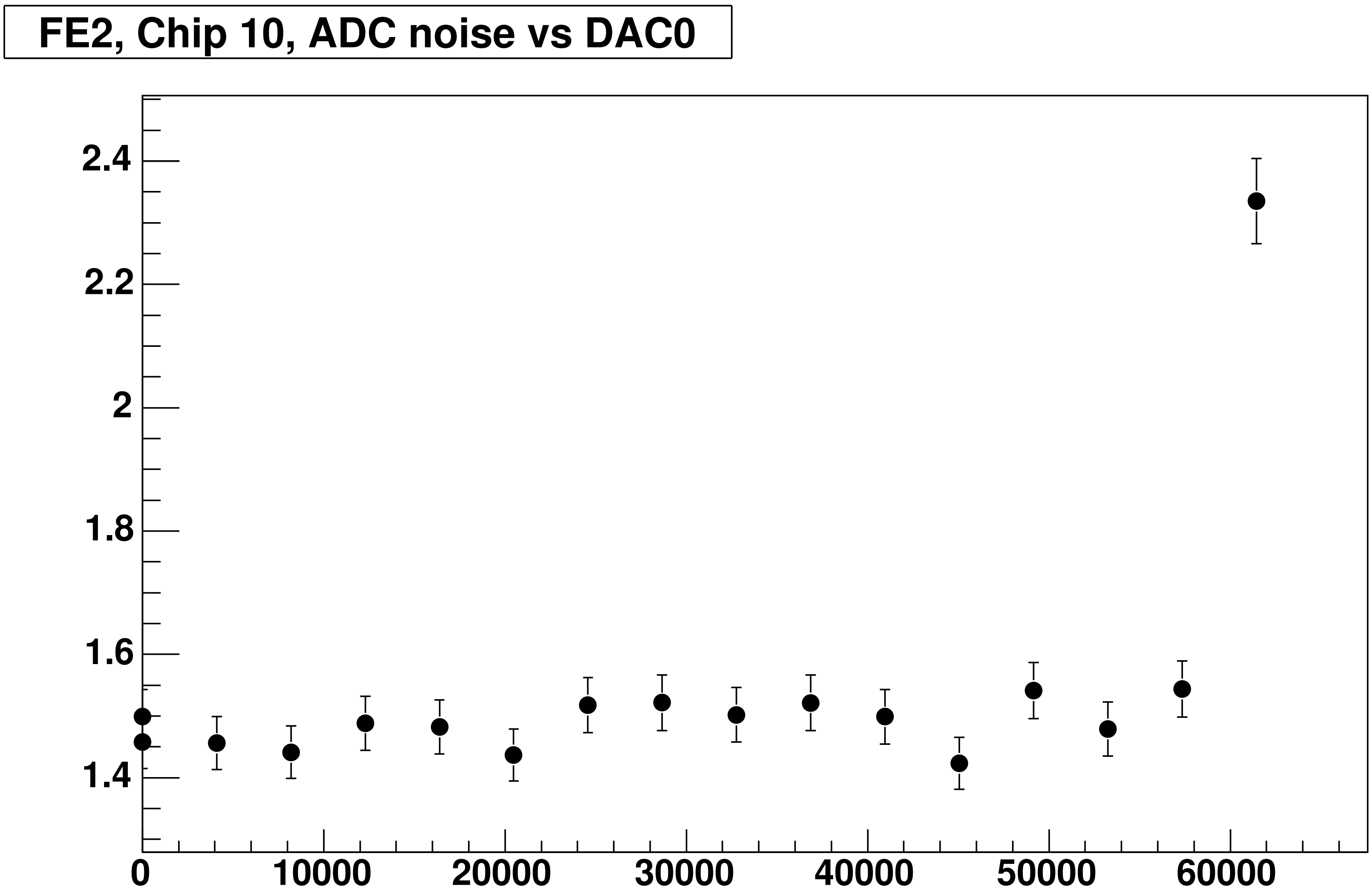
FE2, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2314 / 11
p0 -36.6 ± 0.04271
p1 0.4511 ± 1.353e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

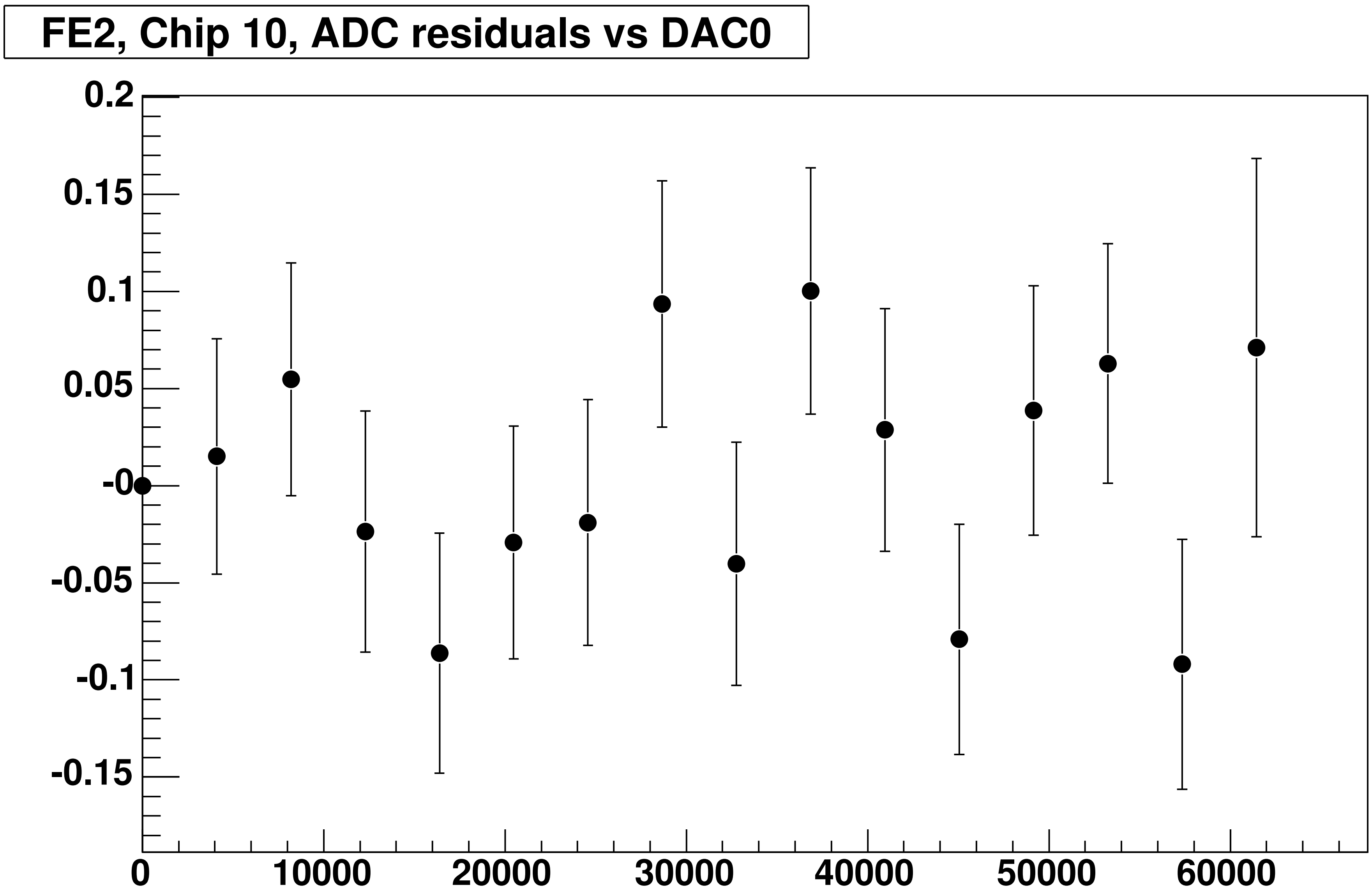

FE2, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

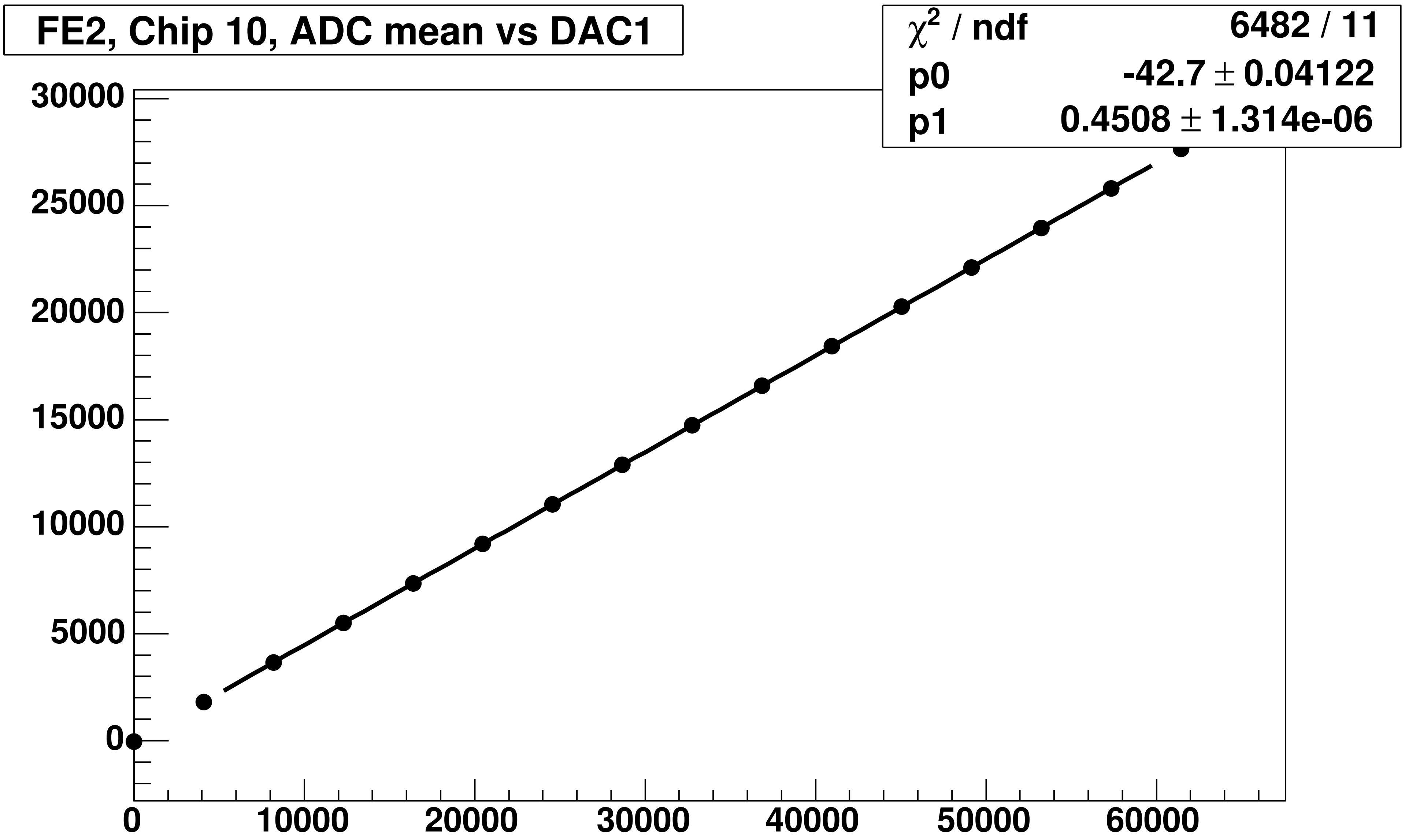

FE2, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000



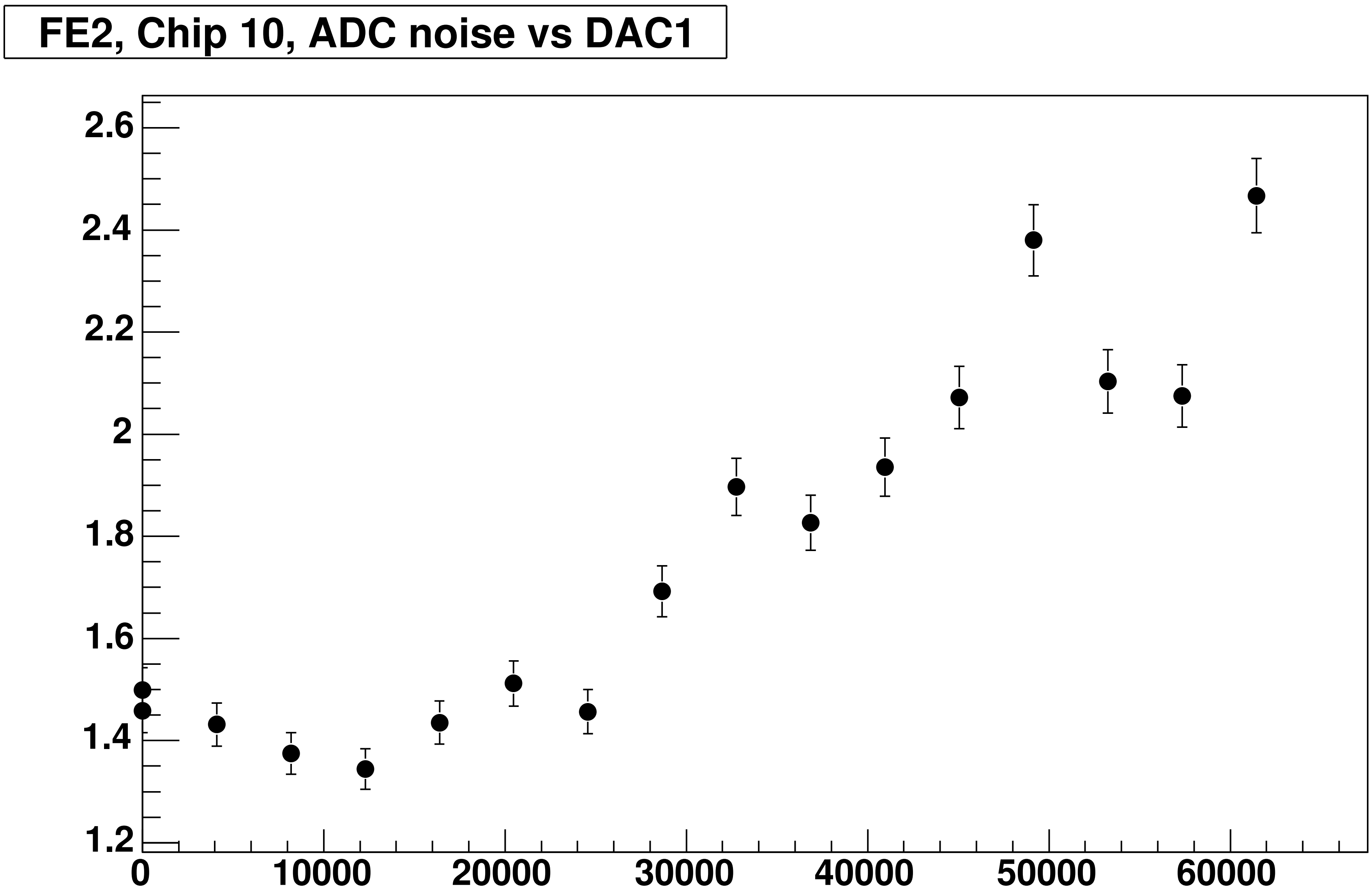
FE2, Chip 10, ADC mean vs DAC0
χ^2 / ndf 13.78 / 11
p0 -39.97 ± 0.04027
p1 8.994e-07 ± 1.121e-06
-39.75
-39.8
-39.85
-39.9
-39.95
-40
-40.05
-40.1
0
10000
20000
30000
40000
50000
60000

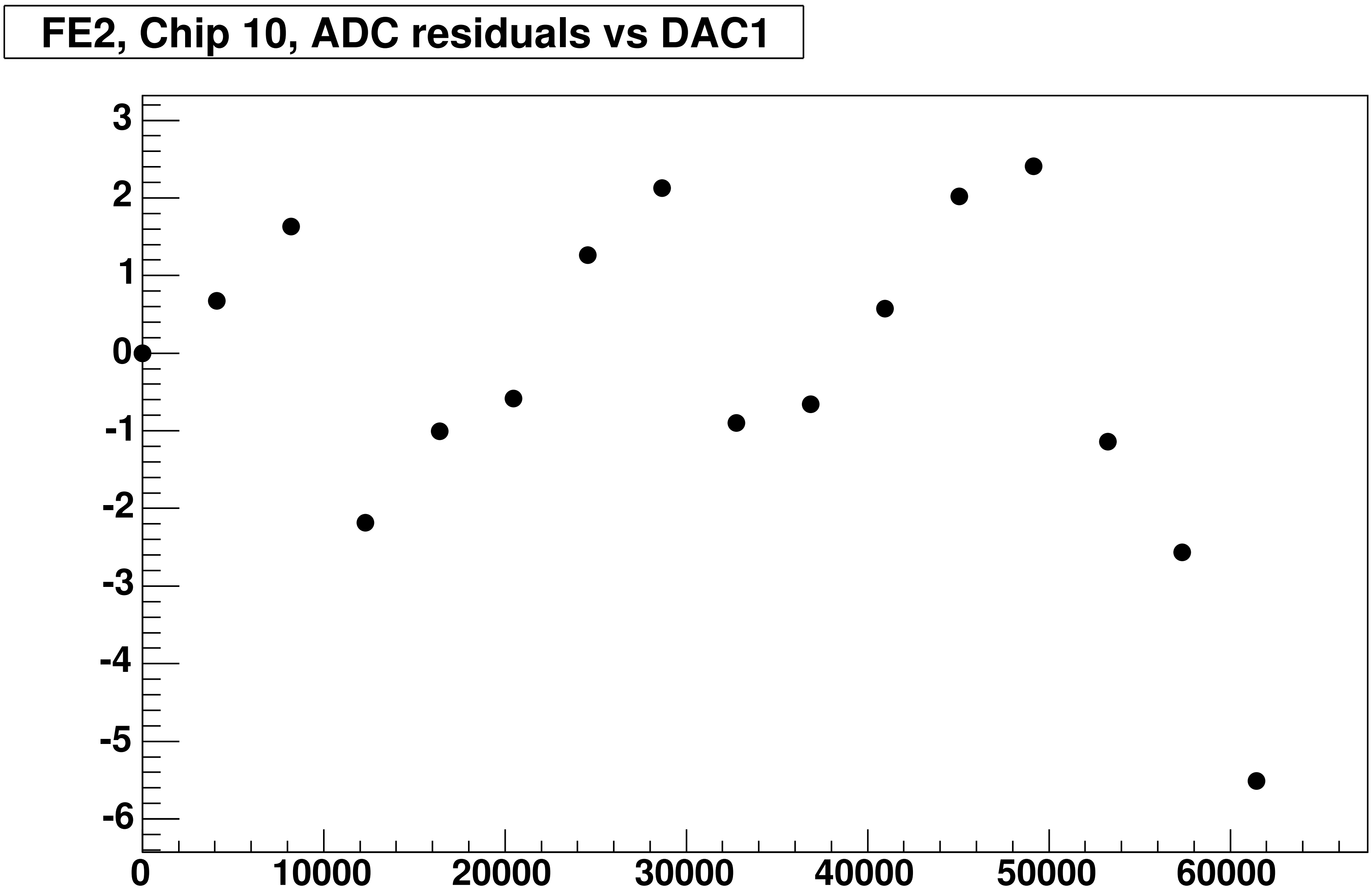

FE2, Chip 10, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

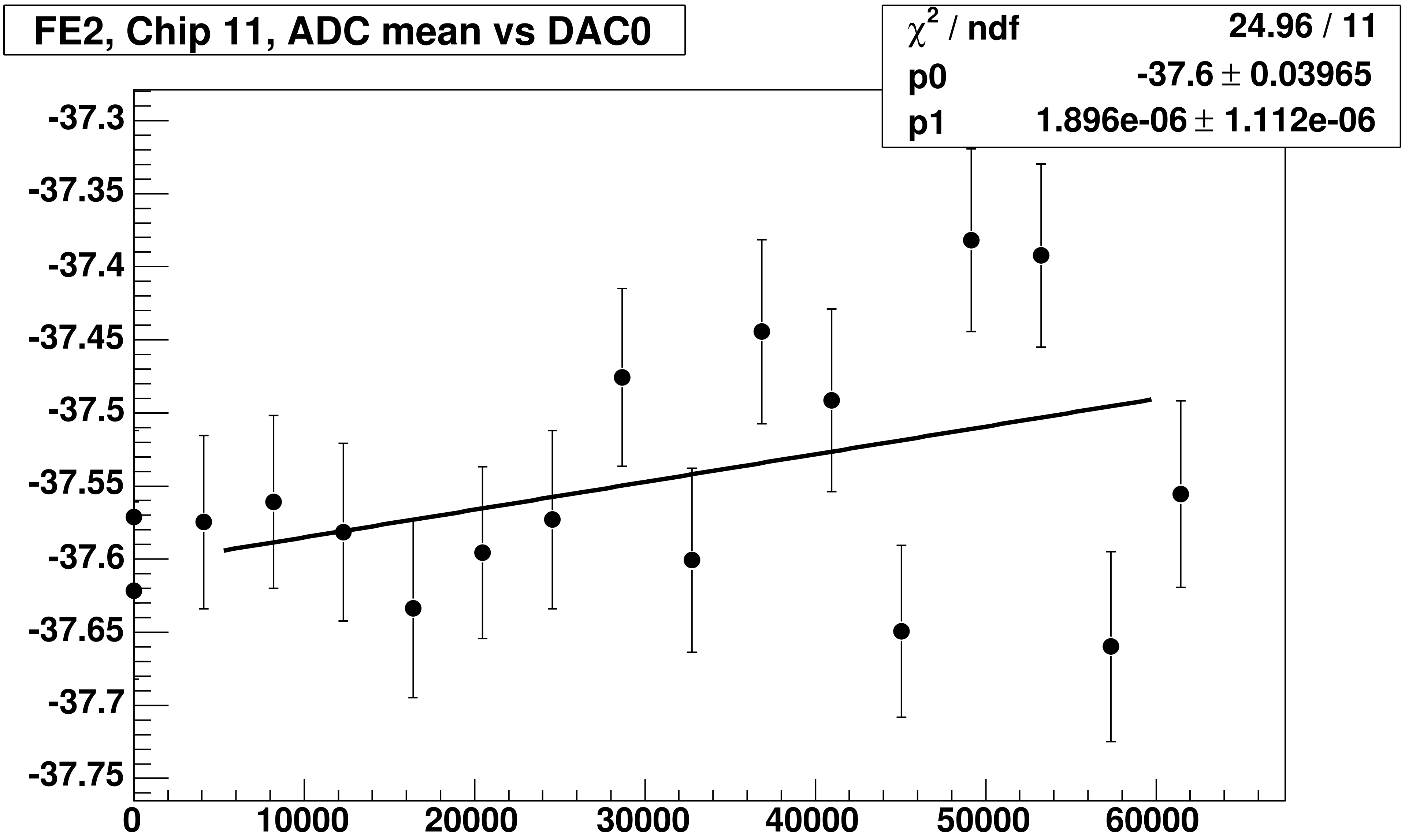

FE2, Chip 10, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



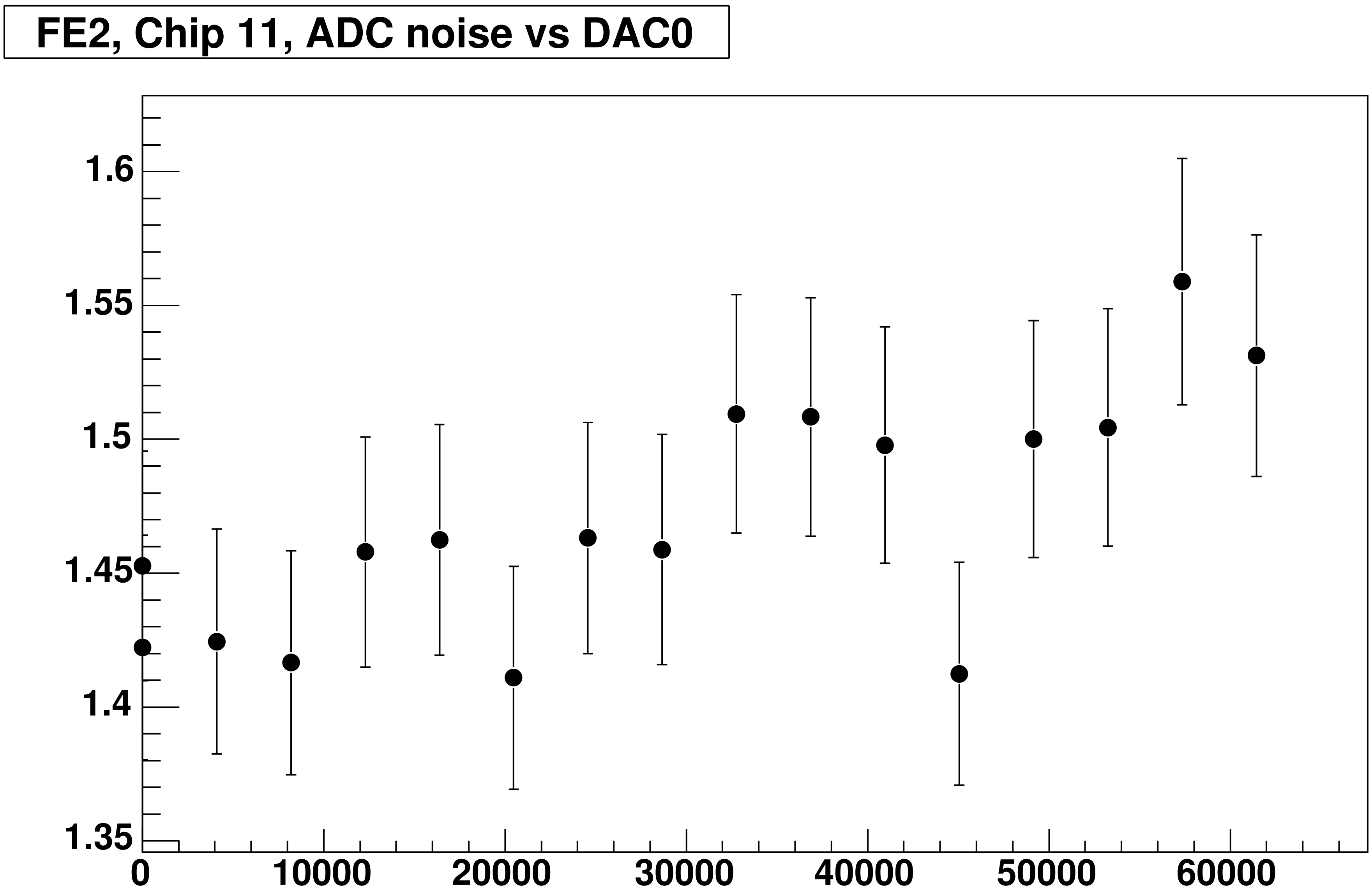
FE2, Chip 10, ADC mean vs DAC1
χ^2 / ndf 6482 / 11
p0 -42.7 ± 0.04122
p1 0.4508 ± 1.314e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

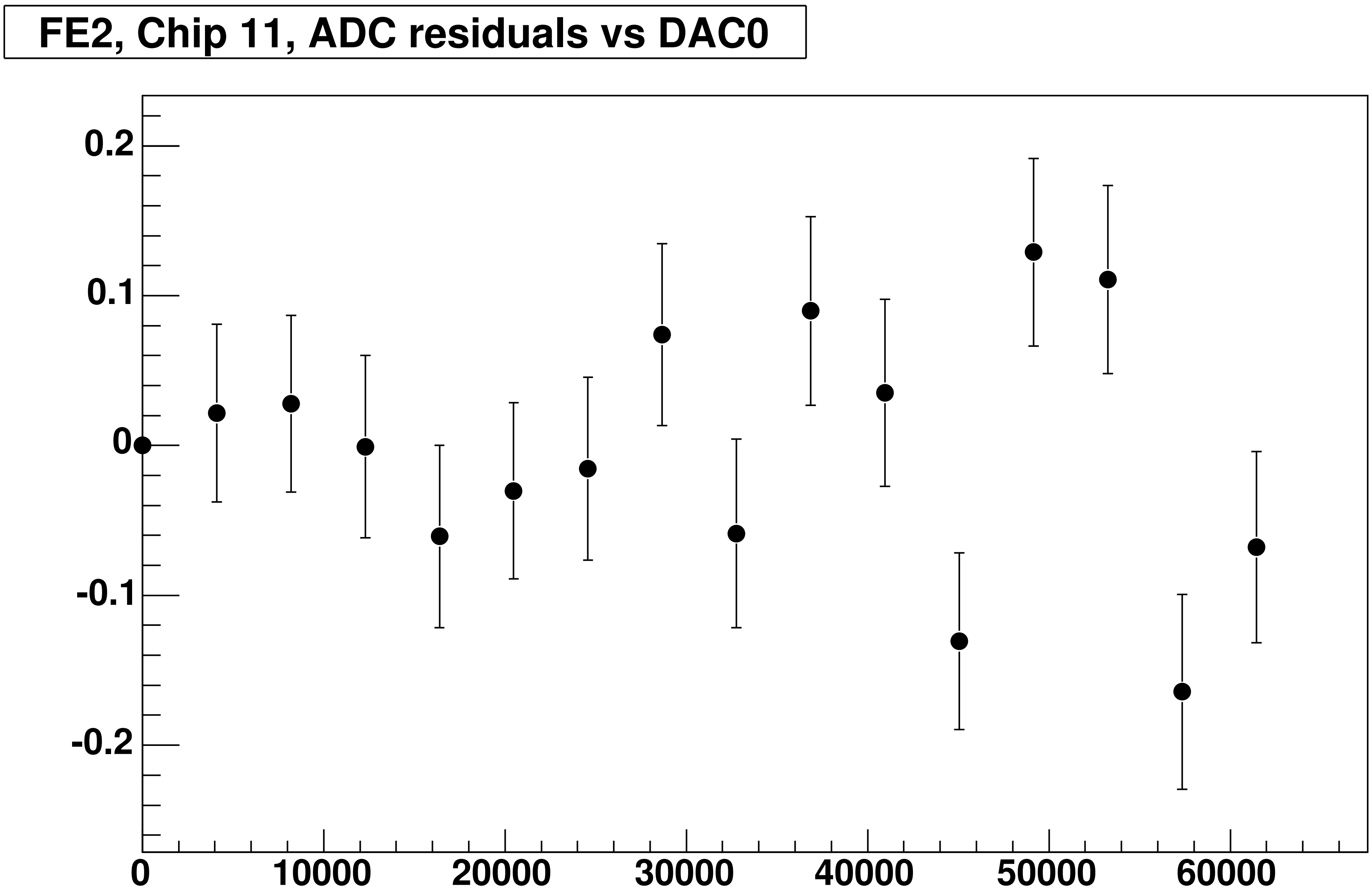

FE2, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

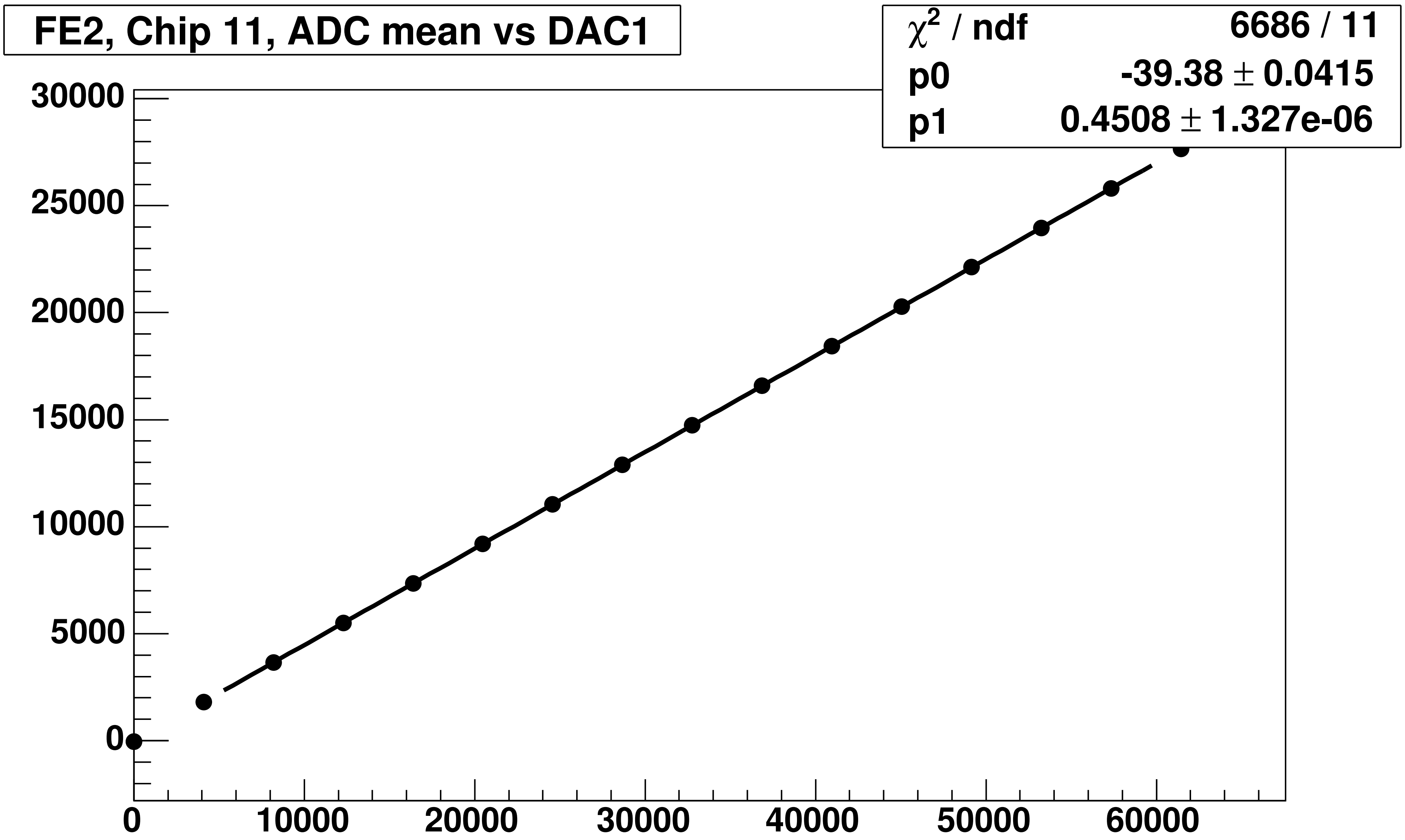

FE2, Chip 10, ADC residuals vs DAC1
3
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

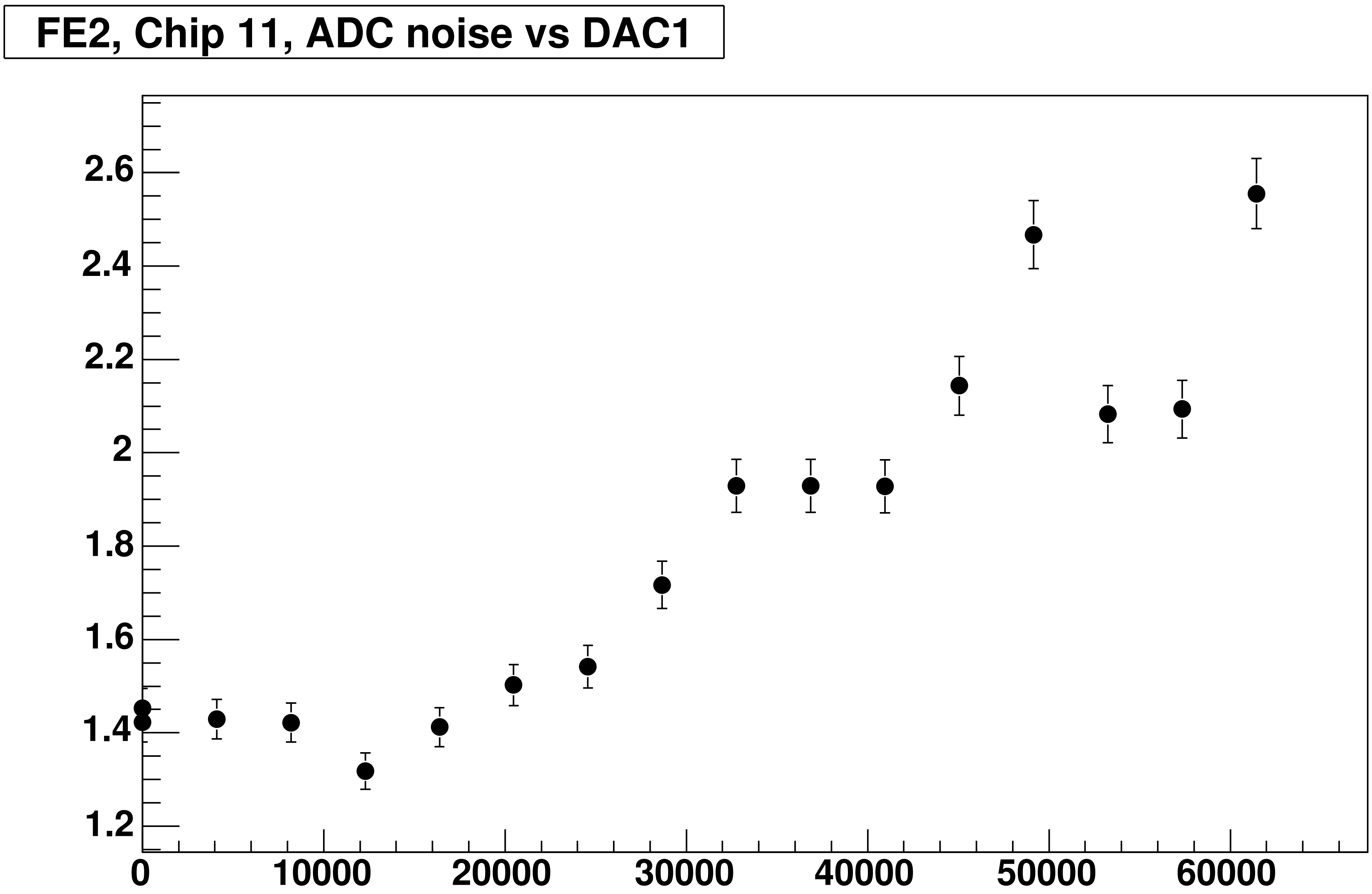


FE2, Chip 11, ADC mean vs DAC0
χ^2 / ndf 24.96 / 11
p0 -37.6 ± 0.03965
p1 1.896e-06 ± 1.112e-06
-37.3
-37.35
-37.4
-37.45
-37.5
-37.55
-37.6
-37.65
-37.7
-37.75
0
10000
20000
30000
40000
50000
60000

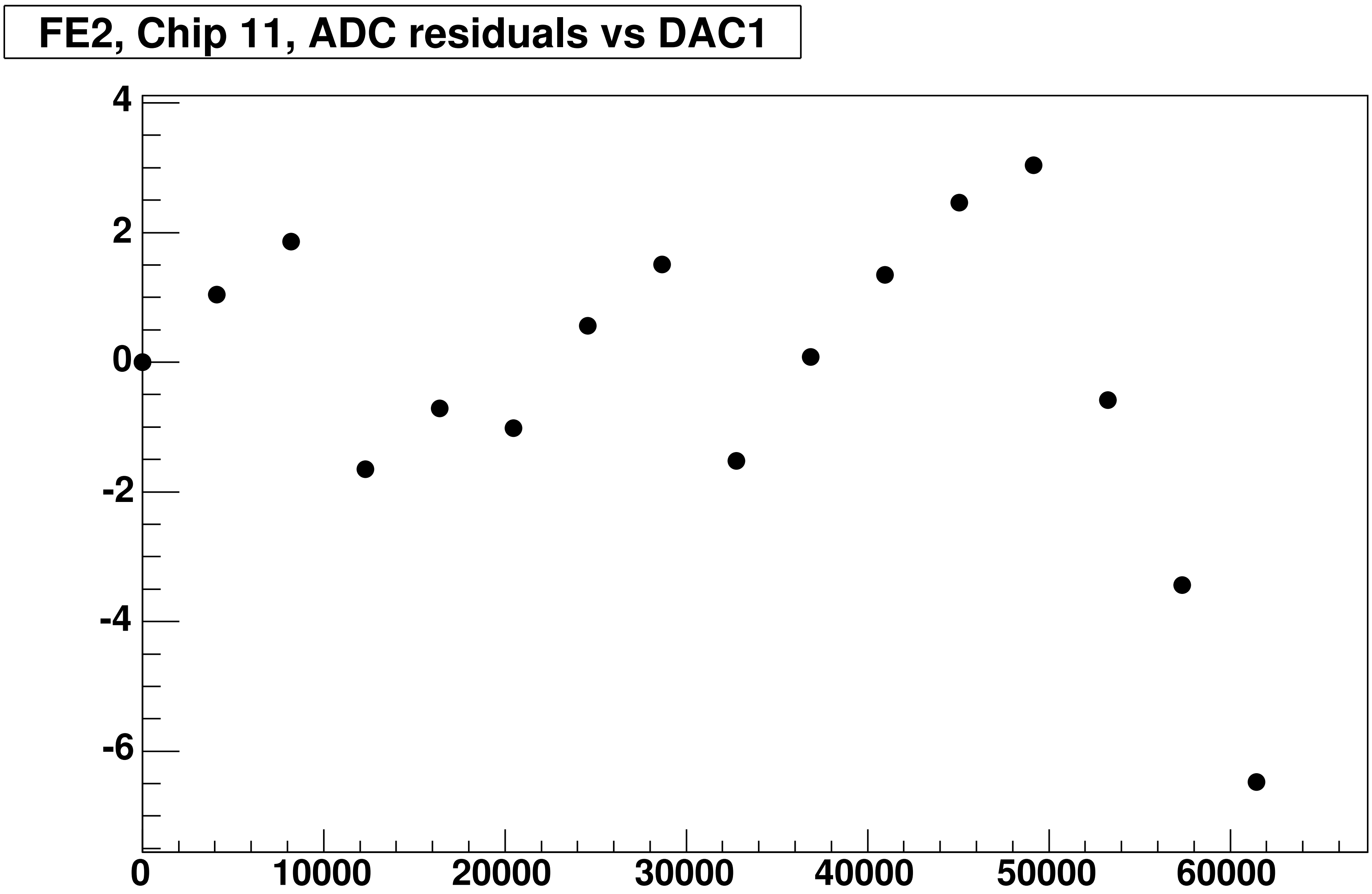

FE2, Chip 11, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

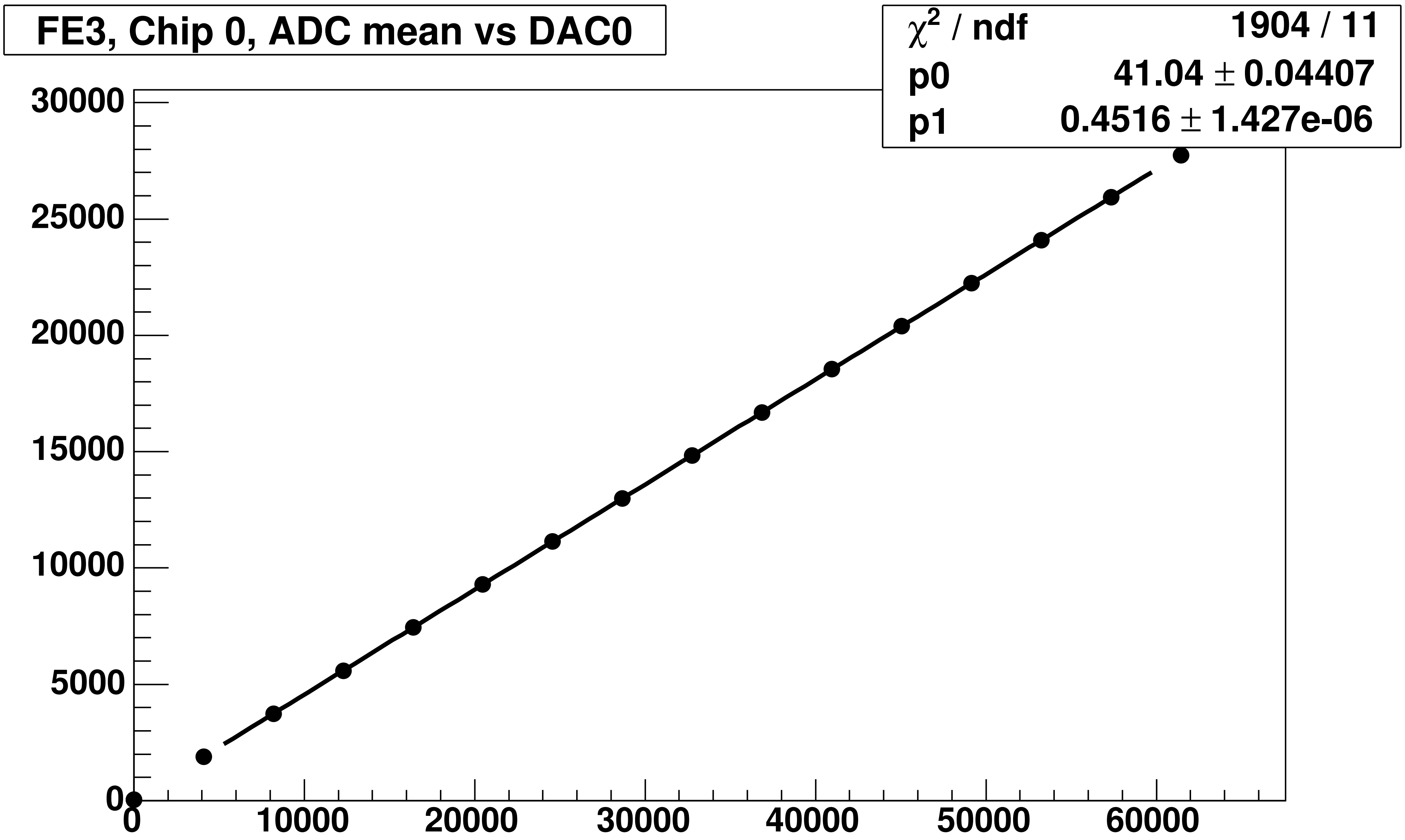

FE2, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

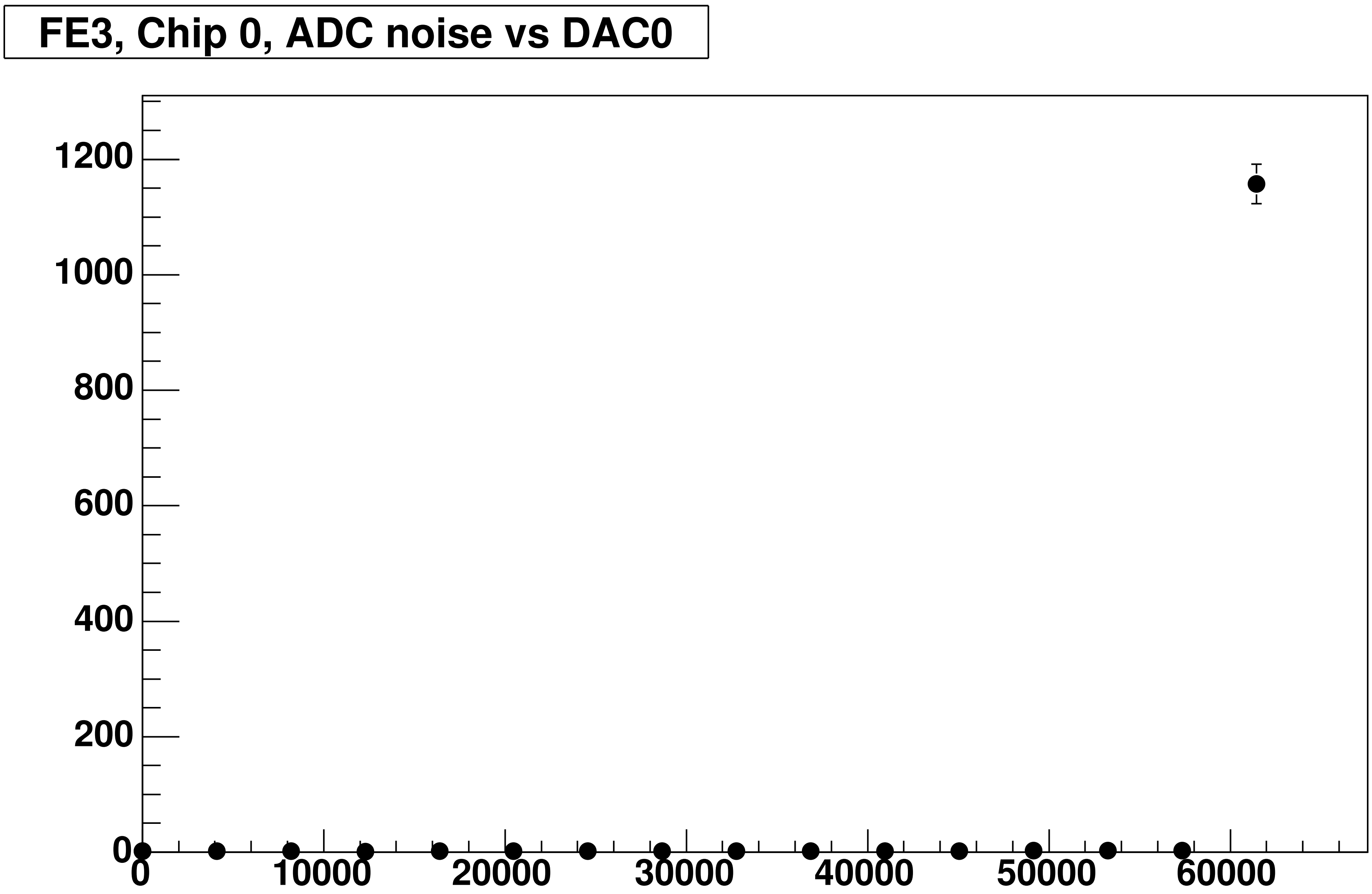

FE2, Chip 11, ADC mean vs DAC1
χ^2 / ndf 6686 / 11
p0 -39.38 ± 0.0415
p1 0.4508 ± 1.327e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

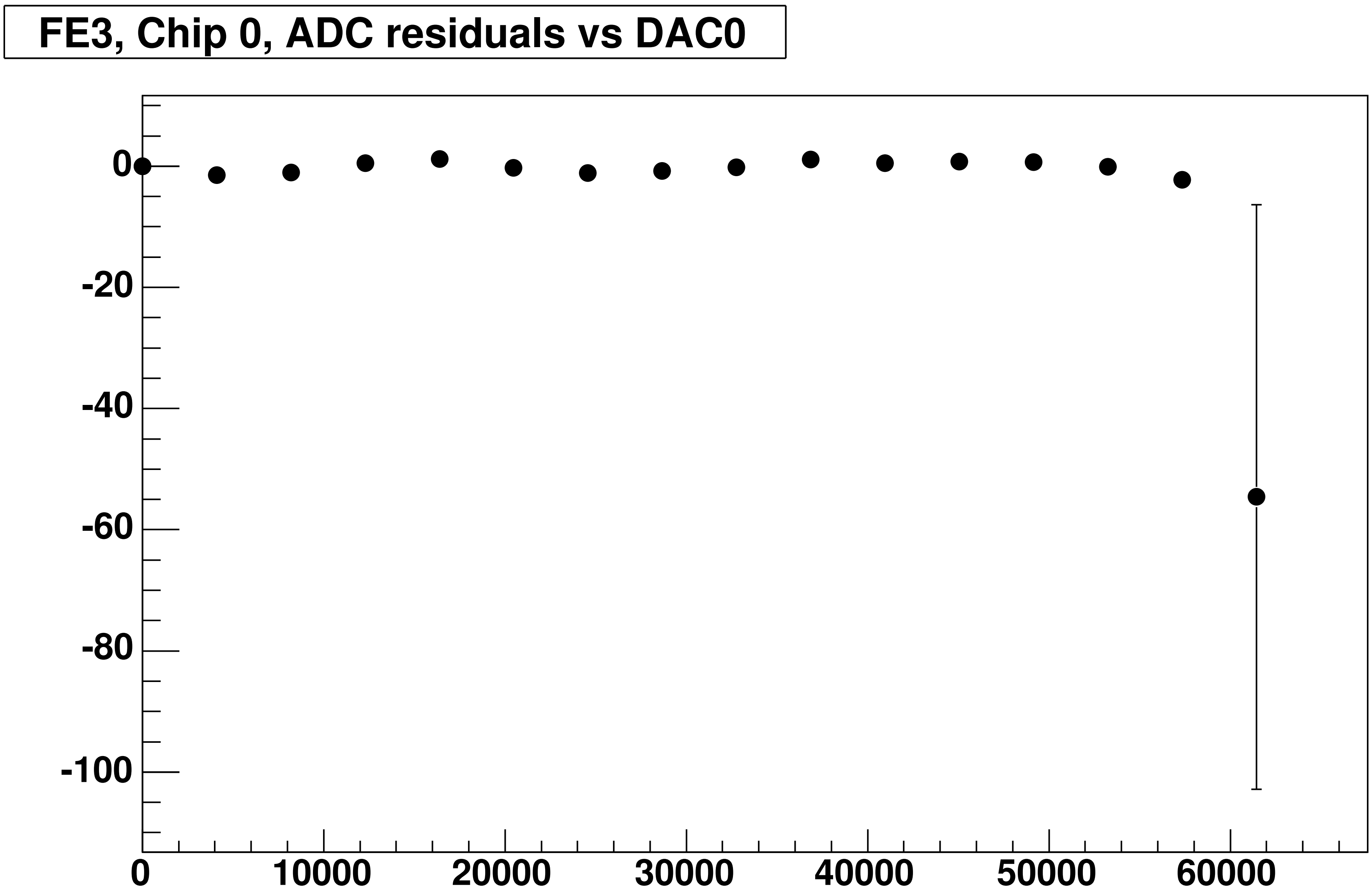


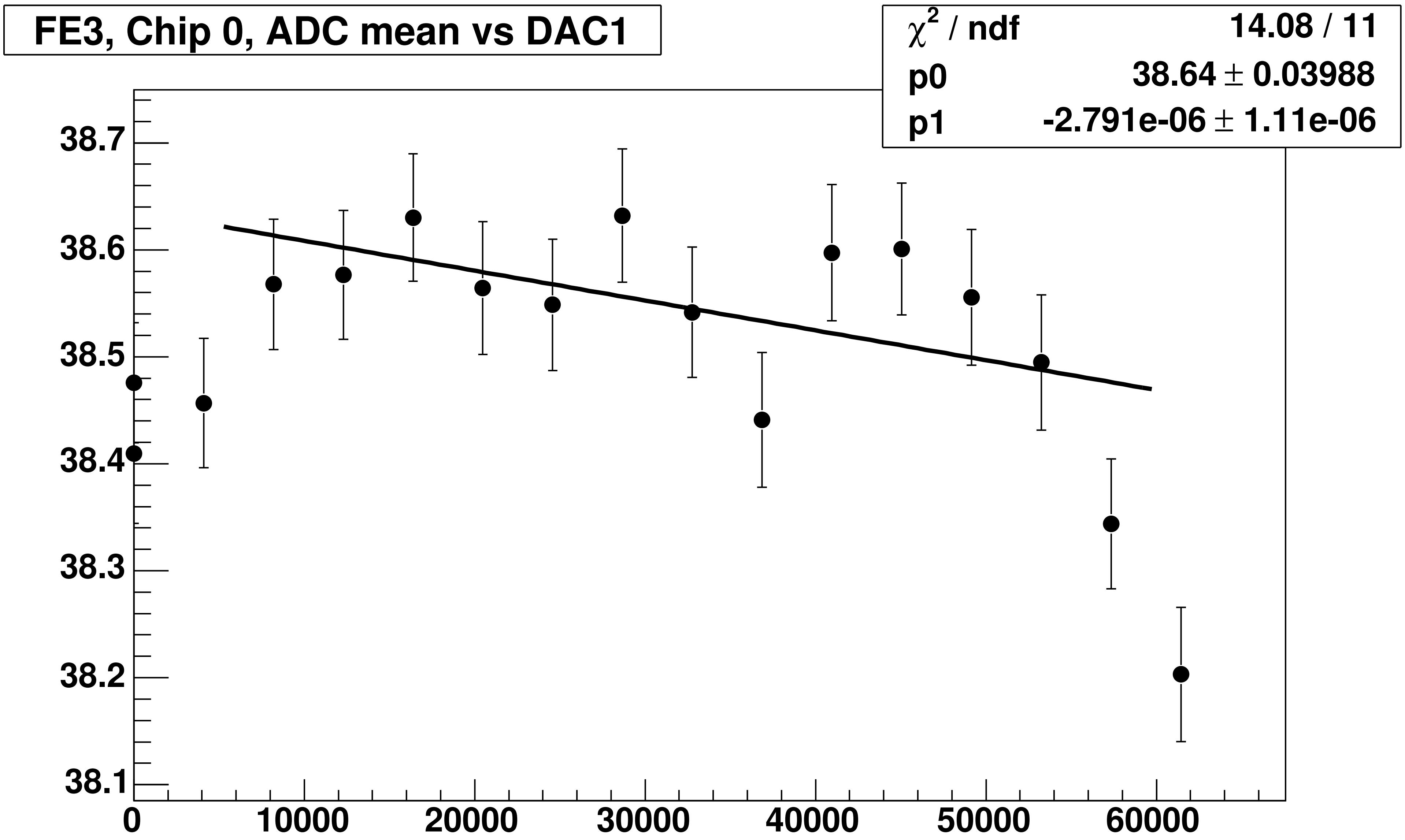
FE2, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

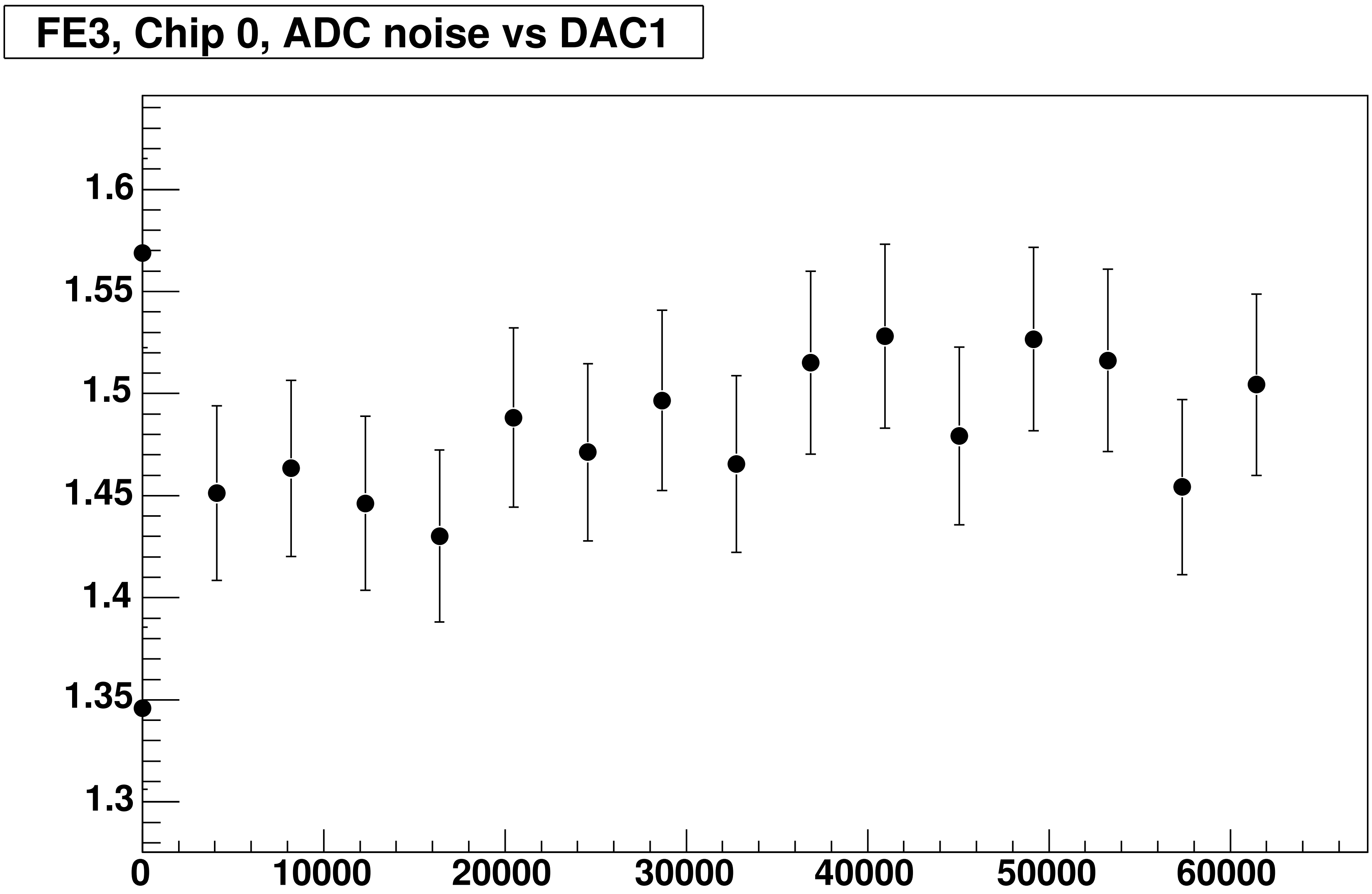

FE3, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1904 / 11
p0 41.04 ± 0.04407
p1 0.4516 ± 1.427e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

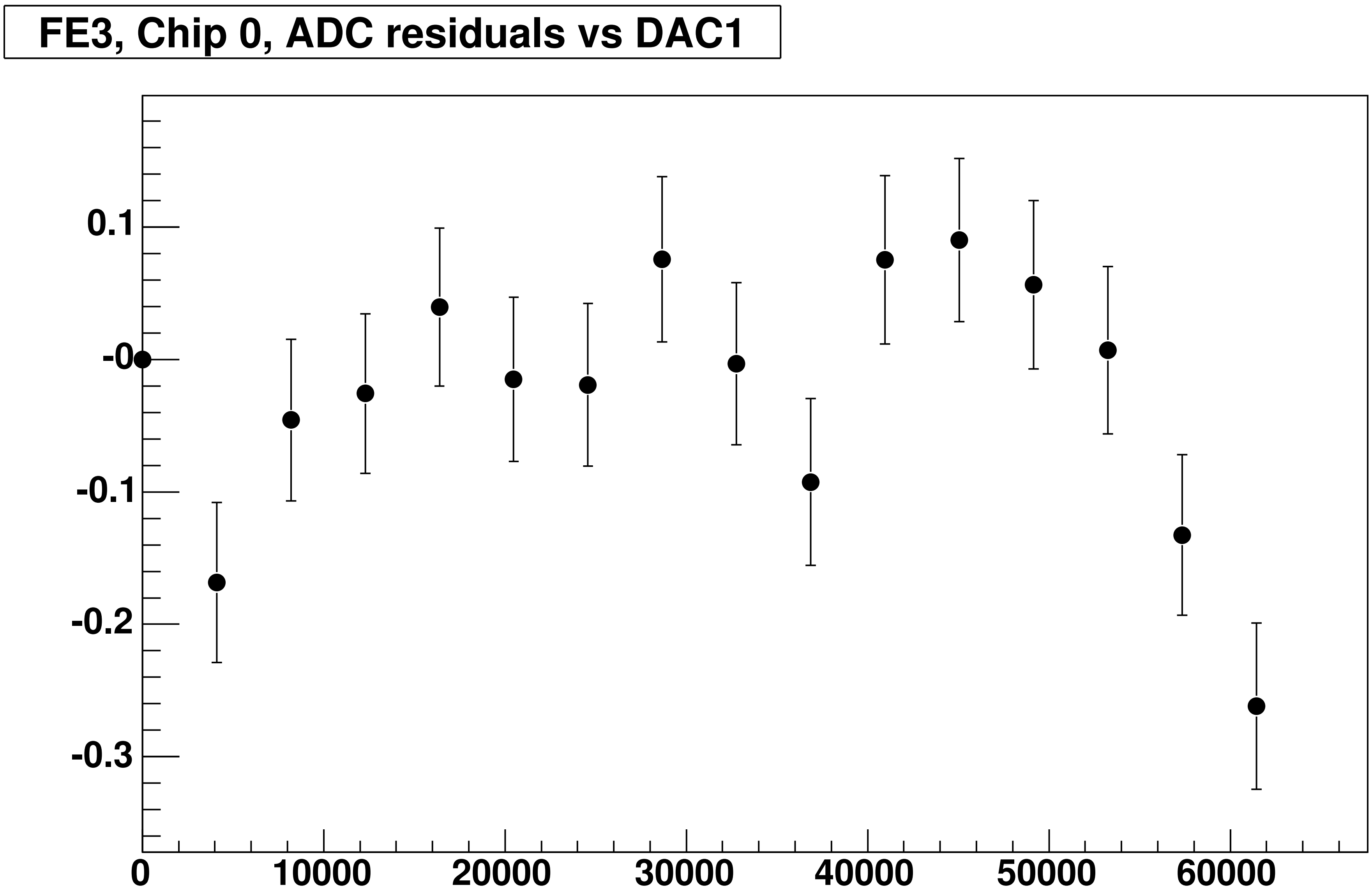

FE3, Chip 0, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

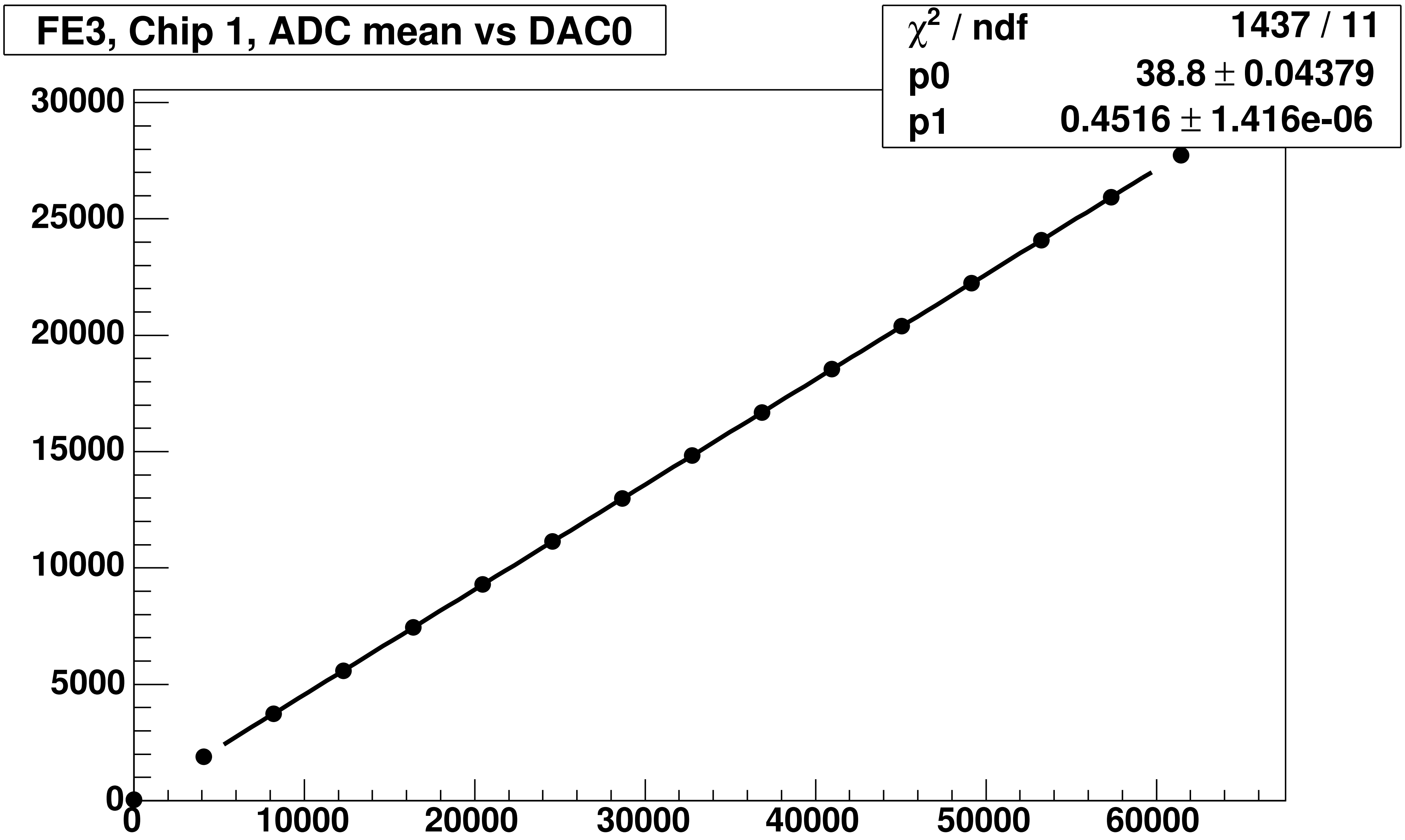

FE3, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



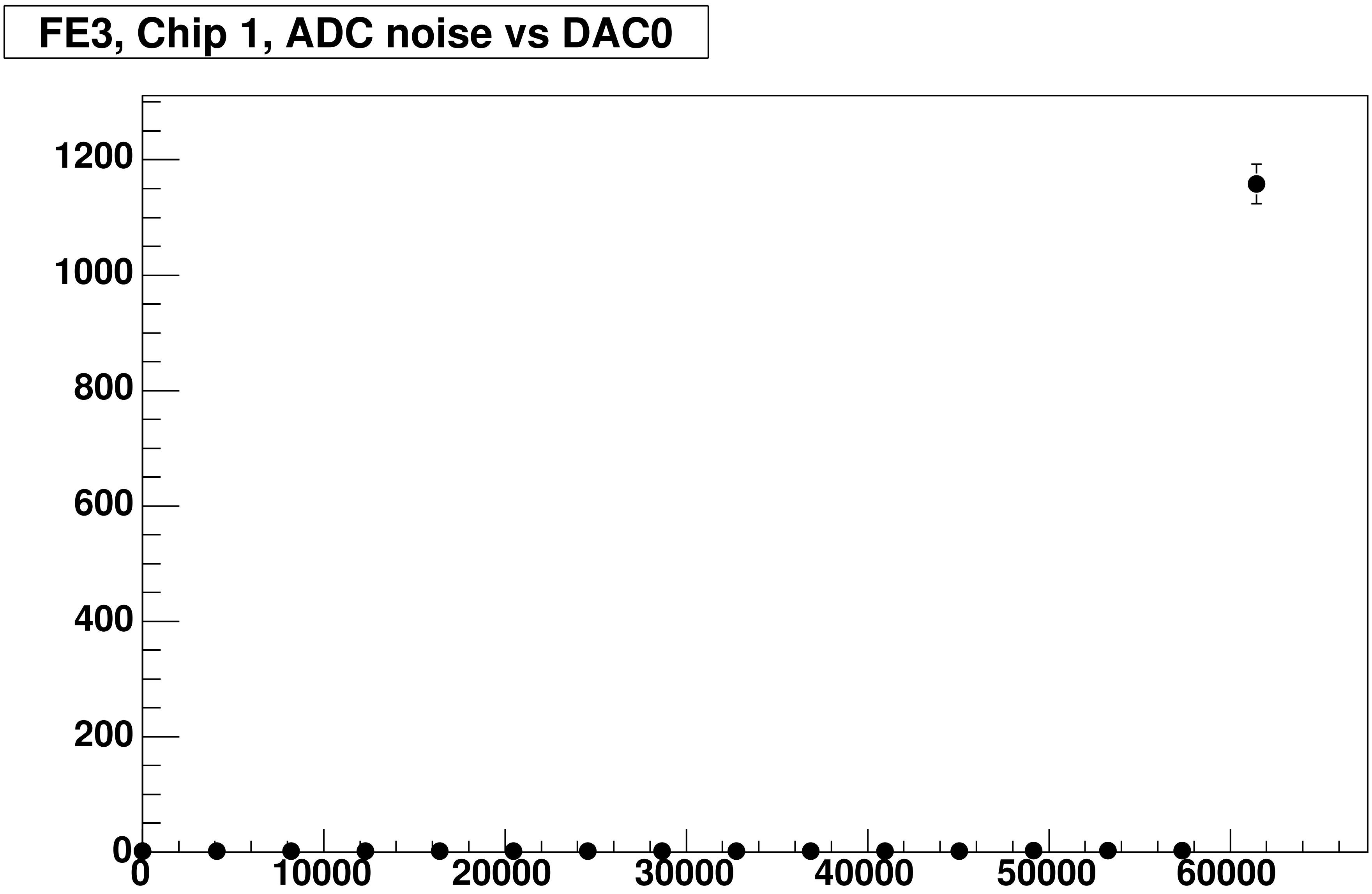
FE3, Chip 0, ADC mean vs DAC1
χ^2 / ndf 14.08 / 11
p0 38.64 ± 0.03988
p1 -2.791e-06 ± 1.11e-06
38.7
38.6
38.5
38.4
38.3
38.2
38.1
0
10000
20000
30000
40000
50000
60000

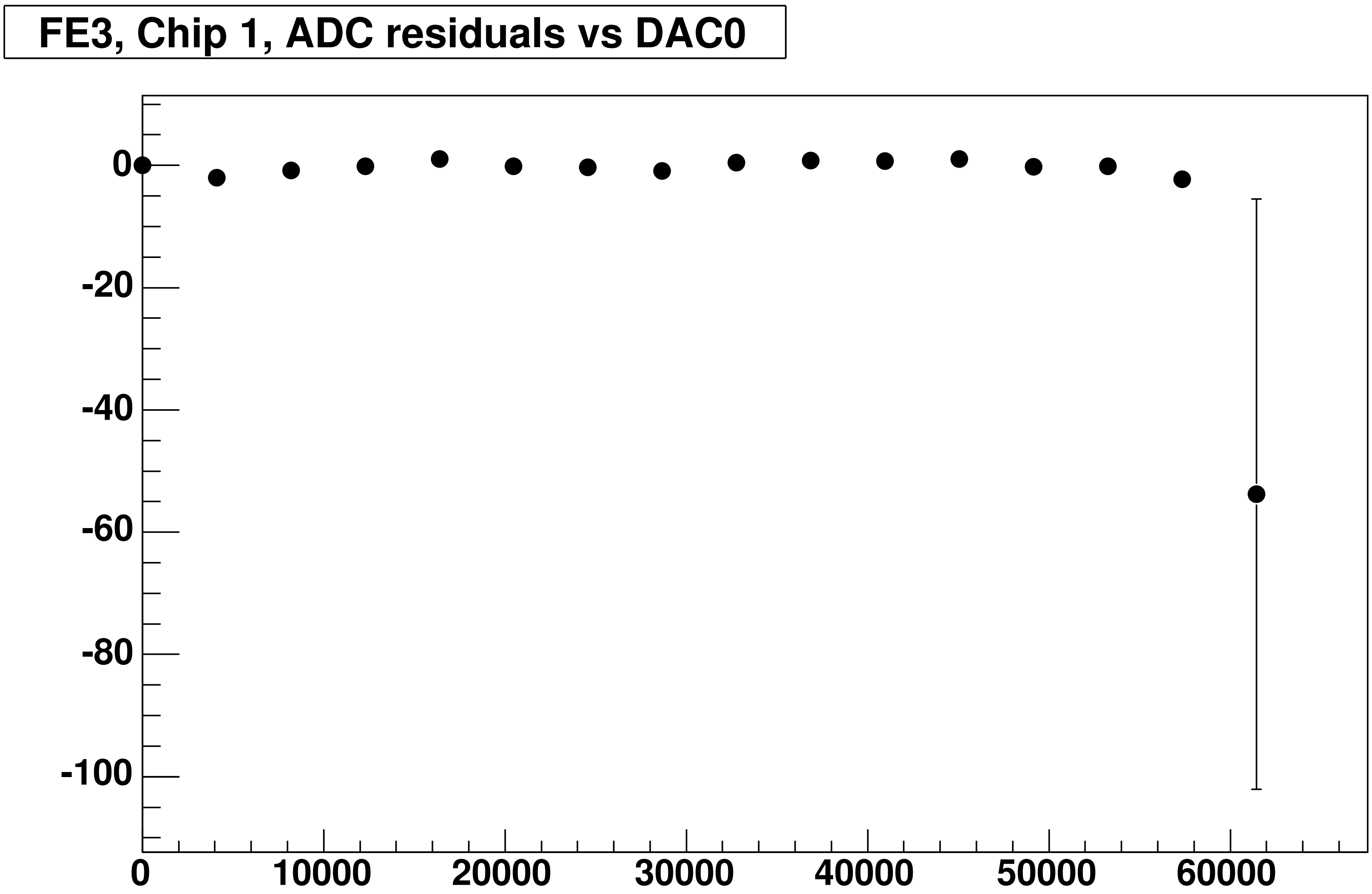

FE3, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

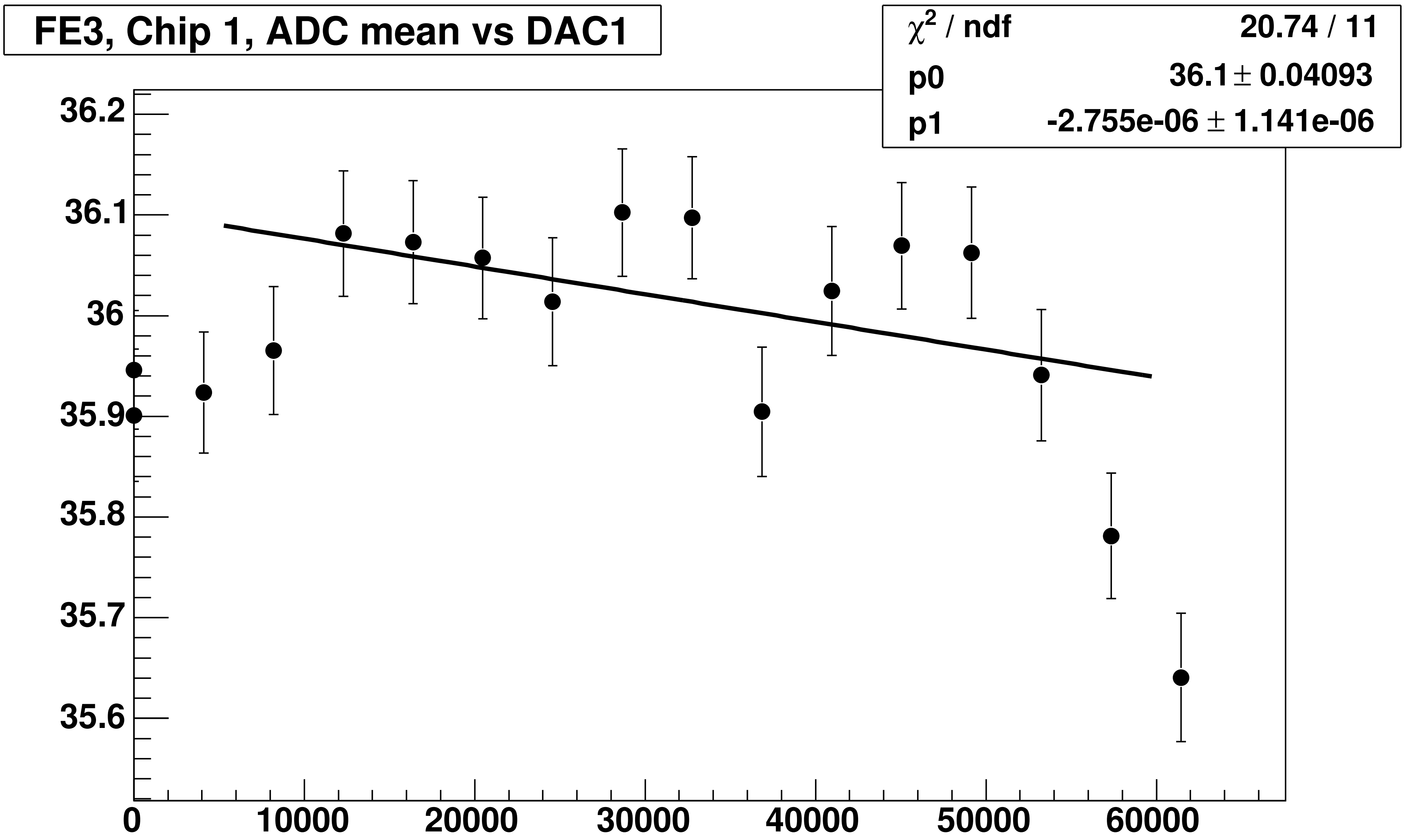

FE3, Chip 0, ADC residuals vs DAC1
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



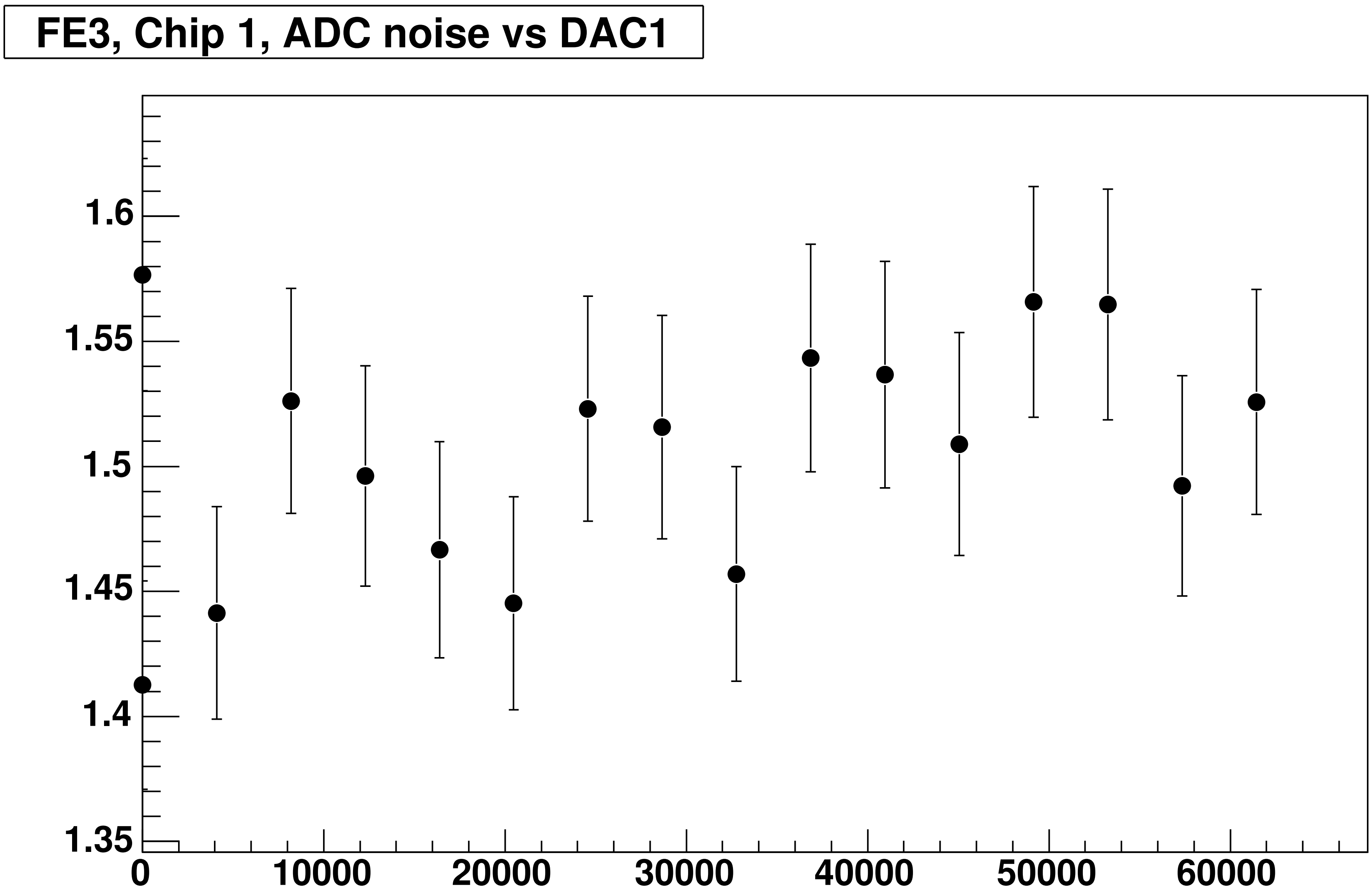
FE3, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1437 / 11
p0 38.8 ± 0.04379
p1 0.4516 ± 1.416e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE3, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

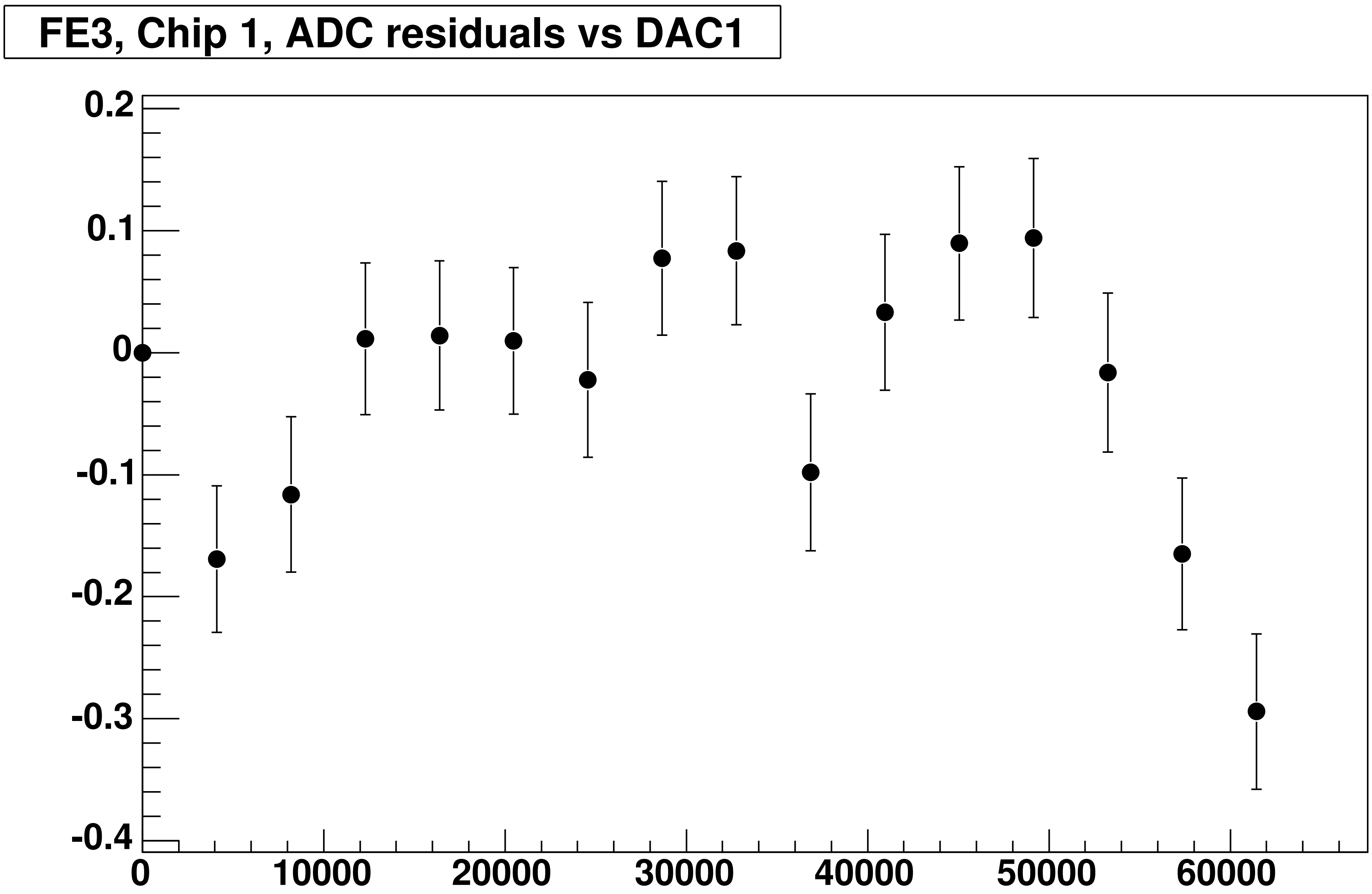

FE3, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

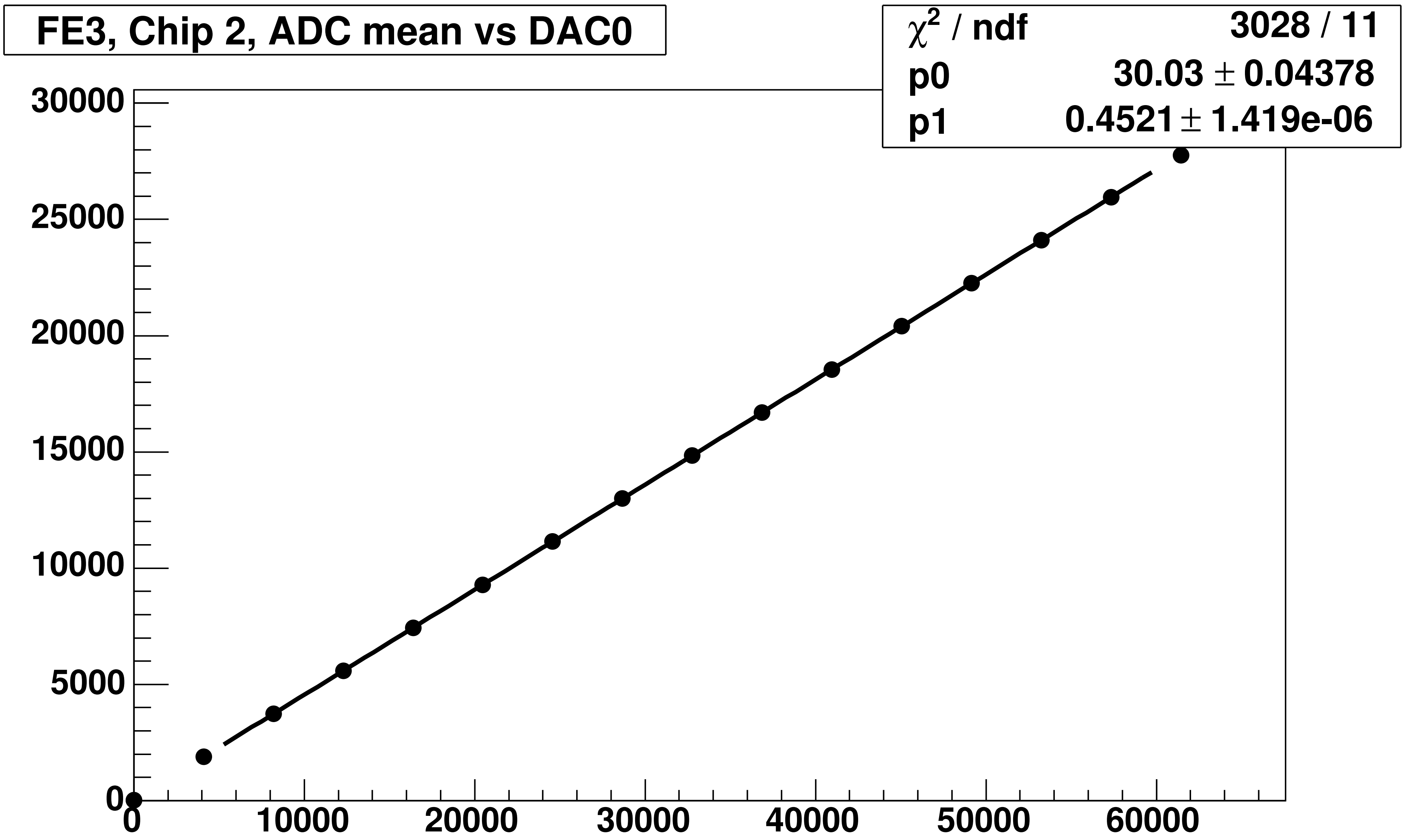


FE3, Chip 1, ADC mean vs DAC1
χ^2 / ndf 20.74 / 11
p0 36.1 ± 0.04093
p1 -2.755e-06 ± 1.141e-06
36.2
36.1
36
35.9
35.8
35.7
35.6
0
10000
20000
30000
40000
50000
60000

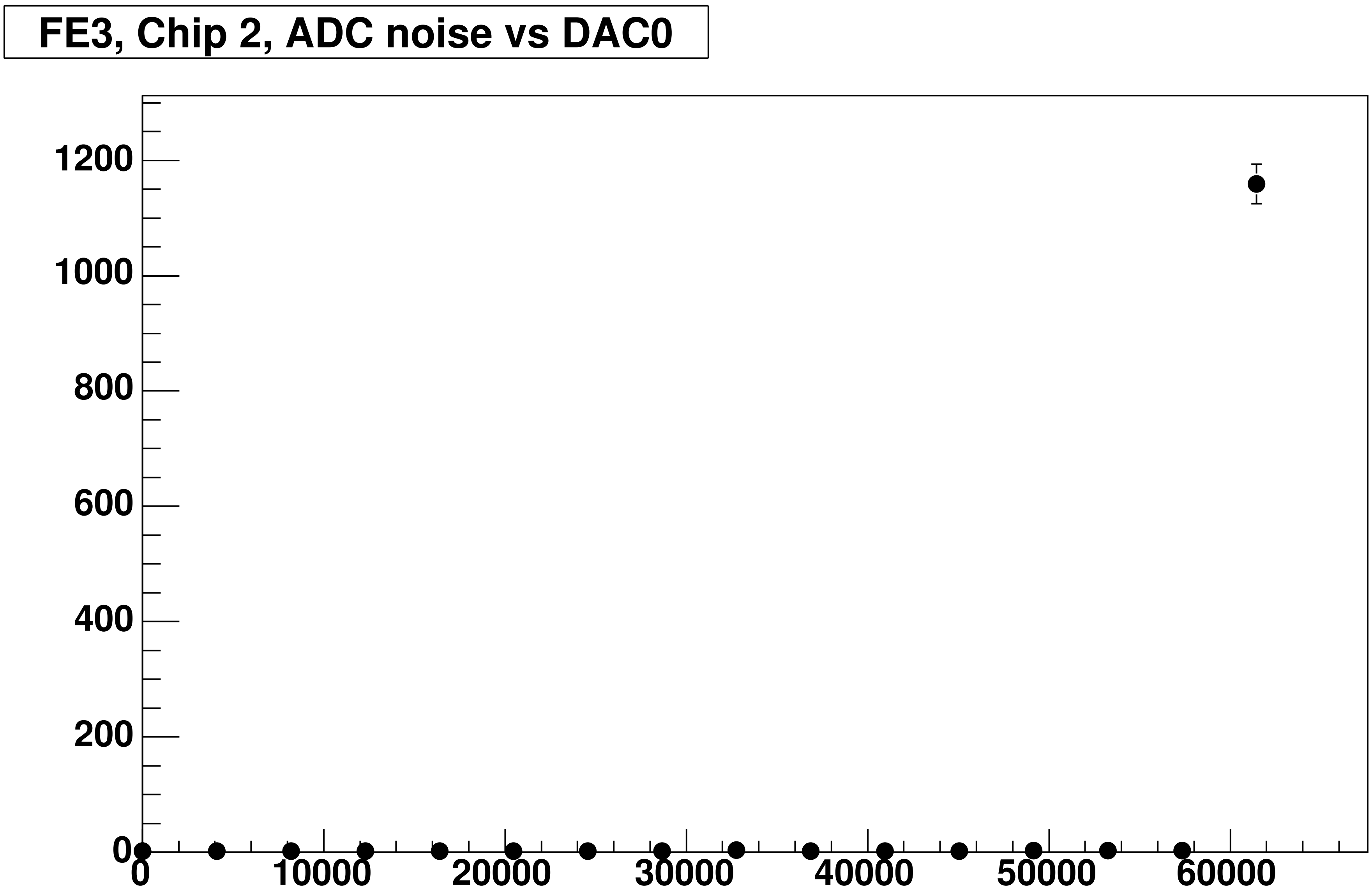


FE3, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

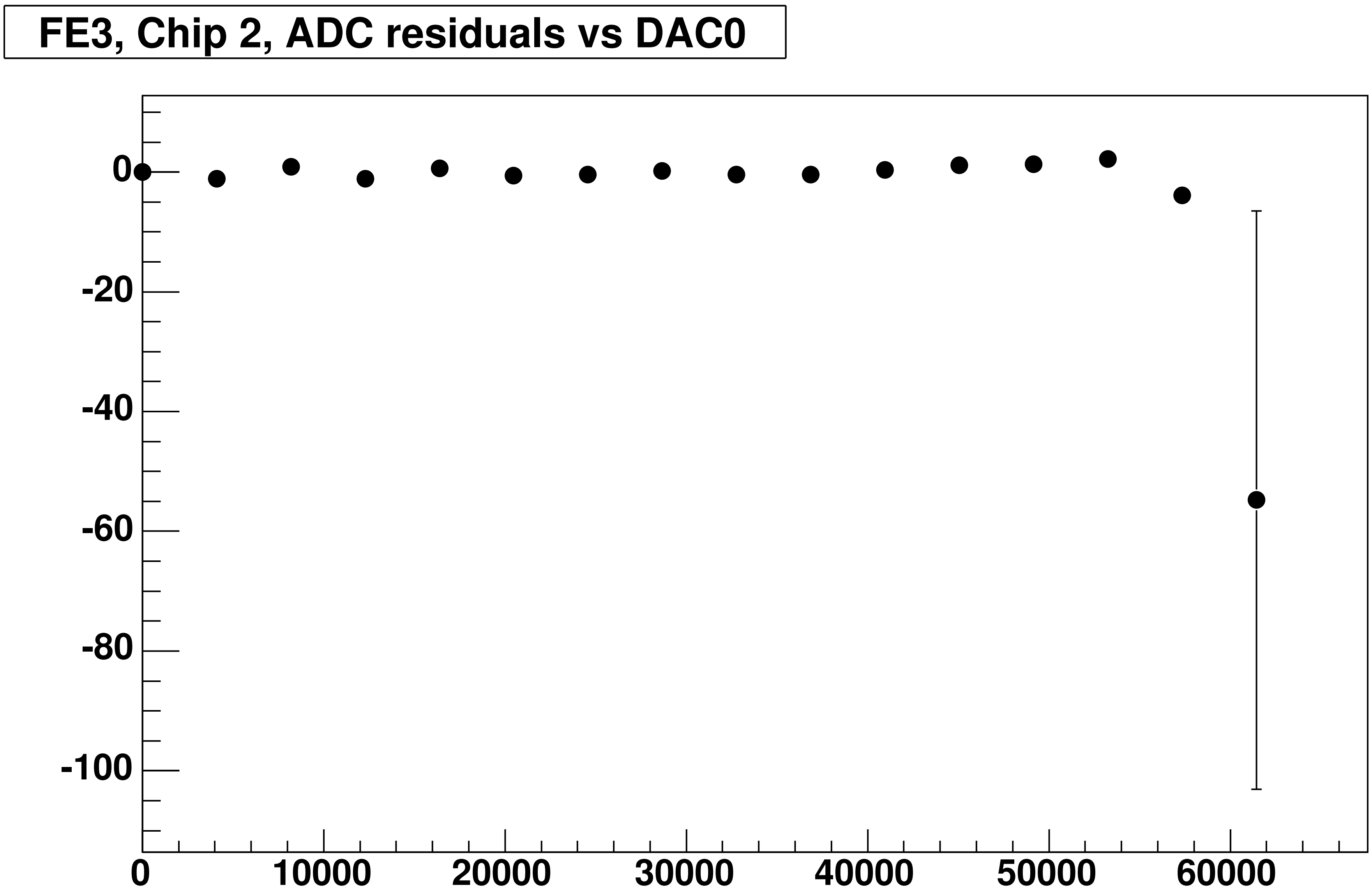

FE3, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



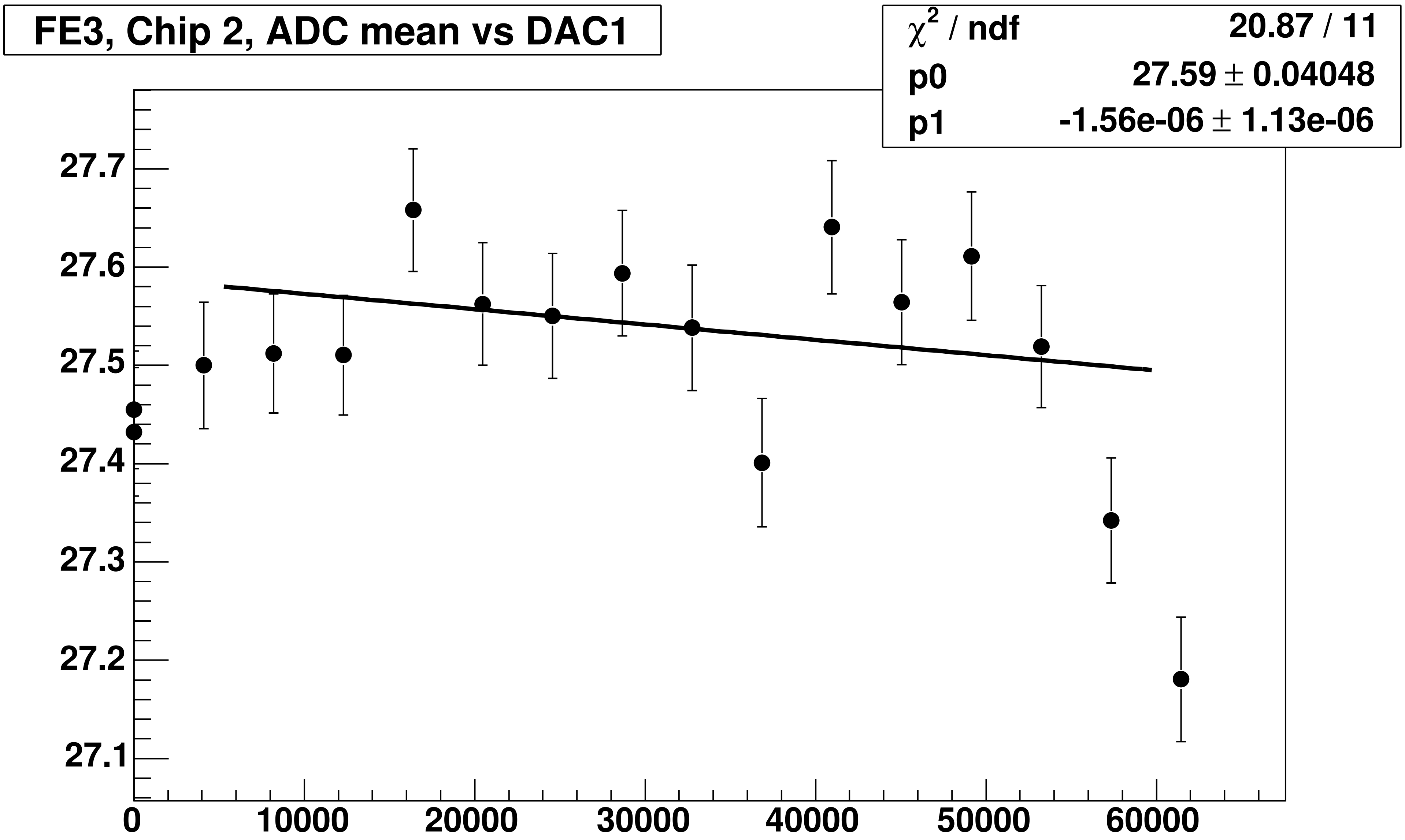
FE3, Chip 2, ADC mean vs DAC0
χ^2 / ndf 3028 / 11
p0 30.03 ± 0.04378
p1 0.4521 ± 1.419e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



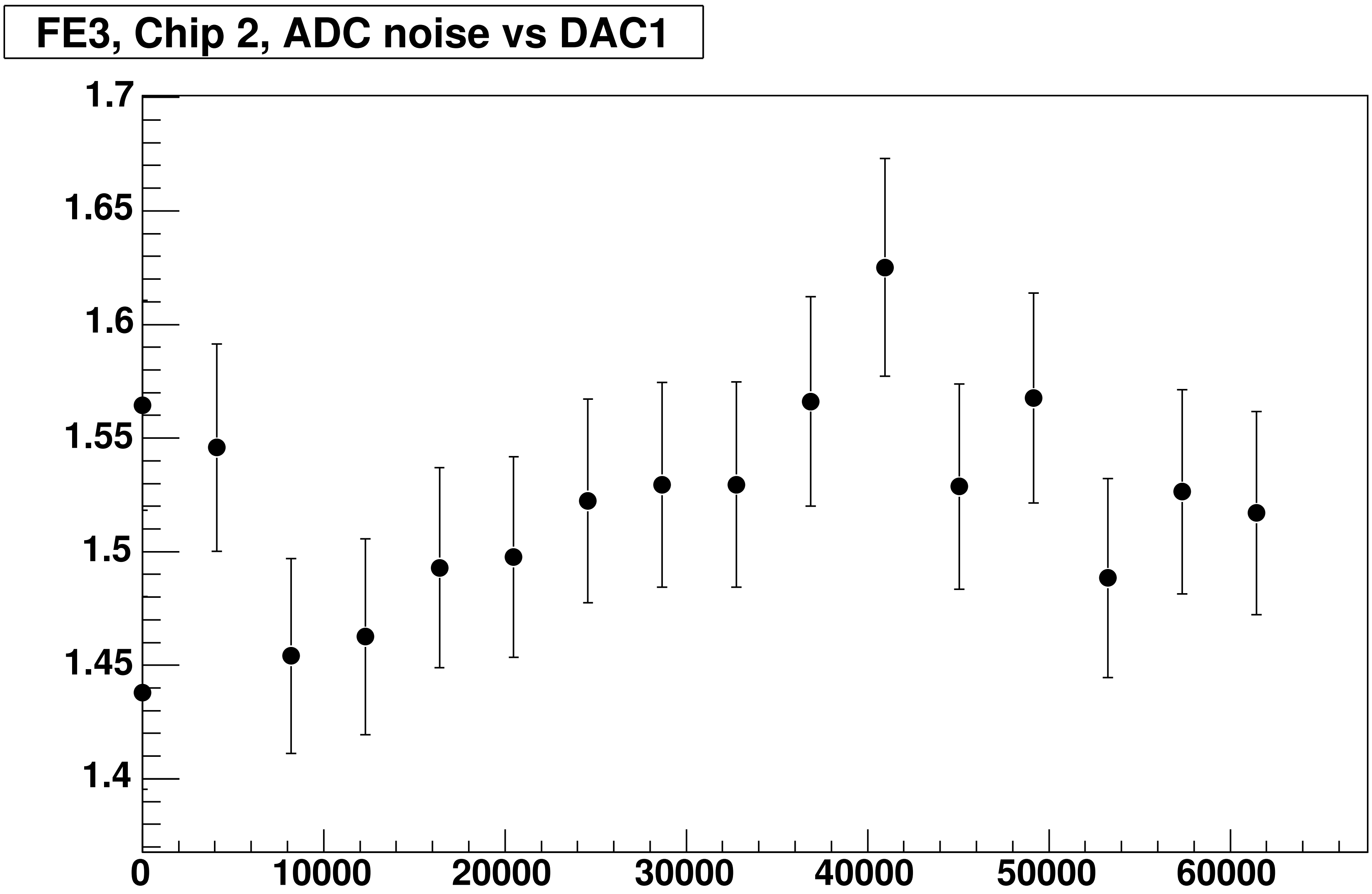
FE3, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



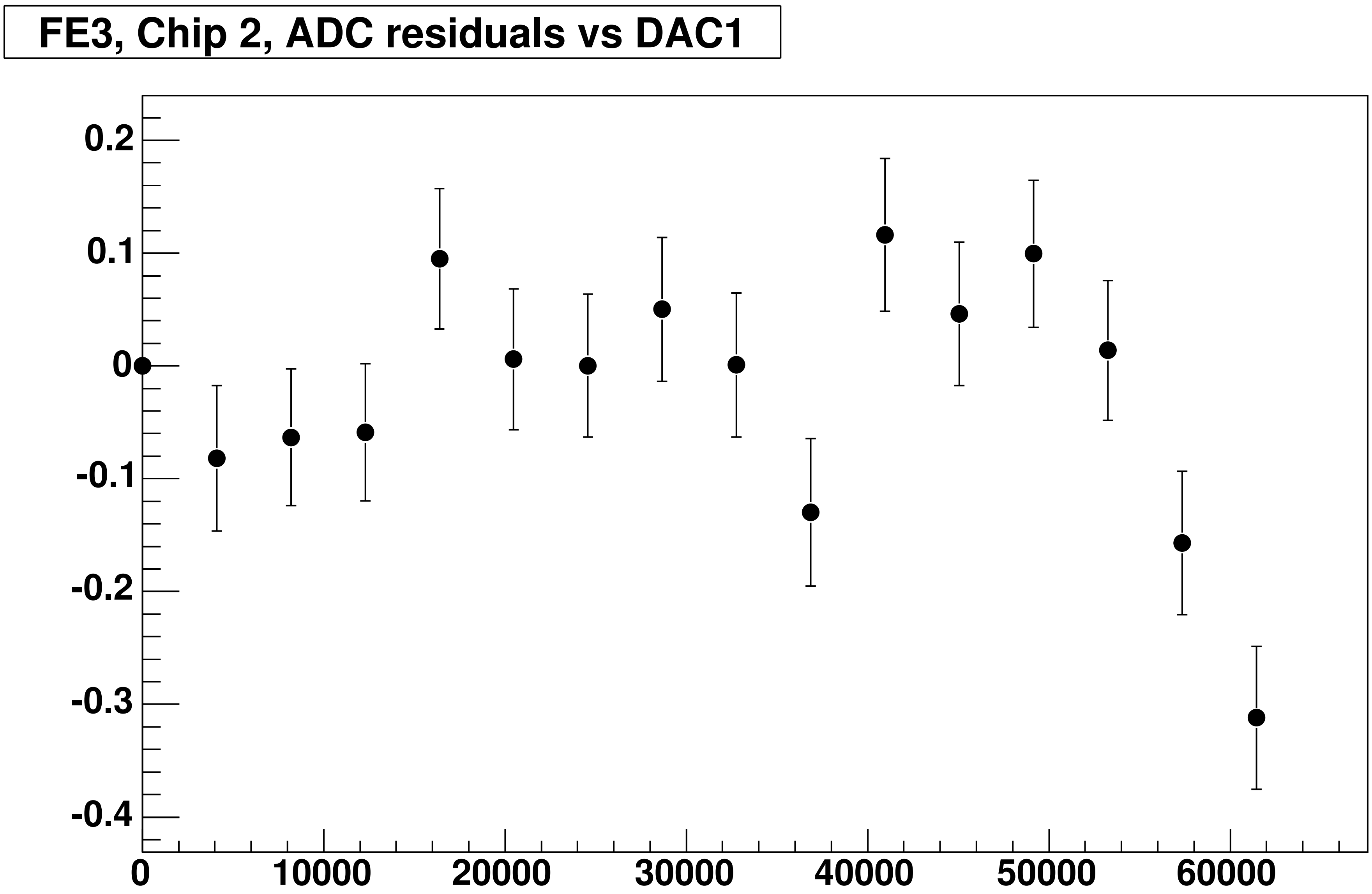
FE3, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



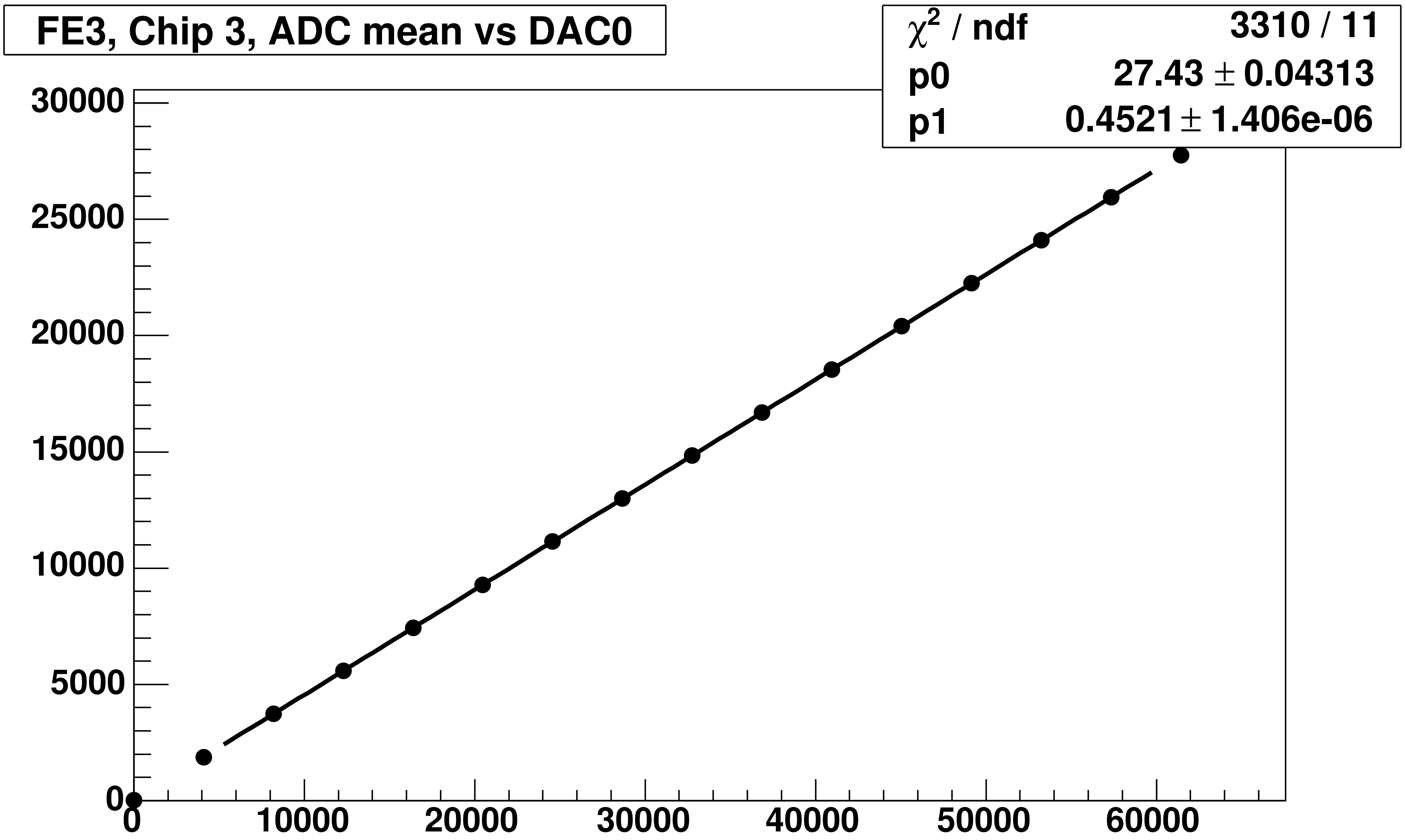
FE3, Chip 2, ADC mean vs DAC1
χ^2 / ndf 20.87 / 11
p0 27.59 ± 0.04048
p1 -1.56e-06 ± 1.13e-06
27.7
27.6
27.5
27.4
27.3
27.2
27.1
0
10000
20000
30000
40000
50000
60000

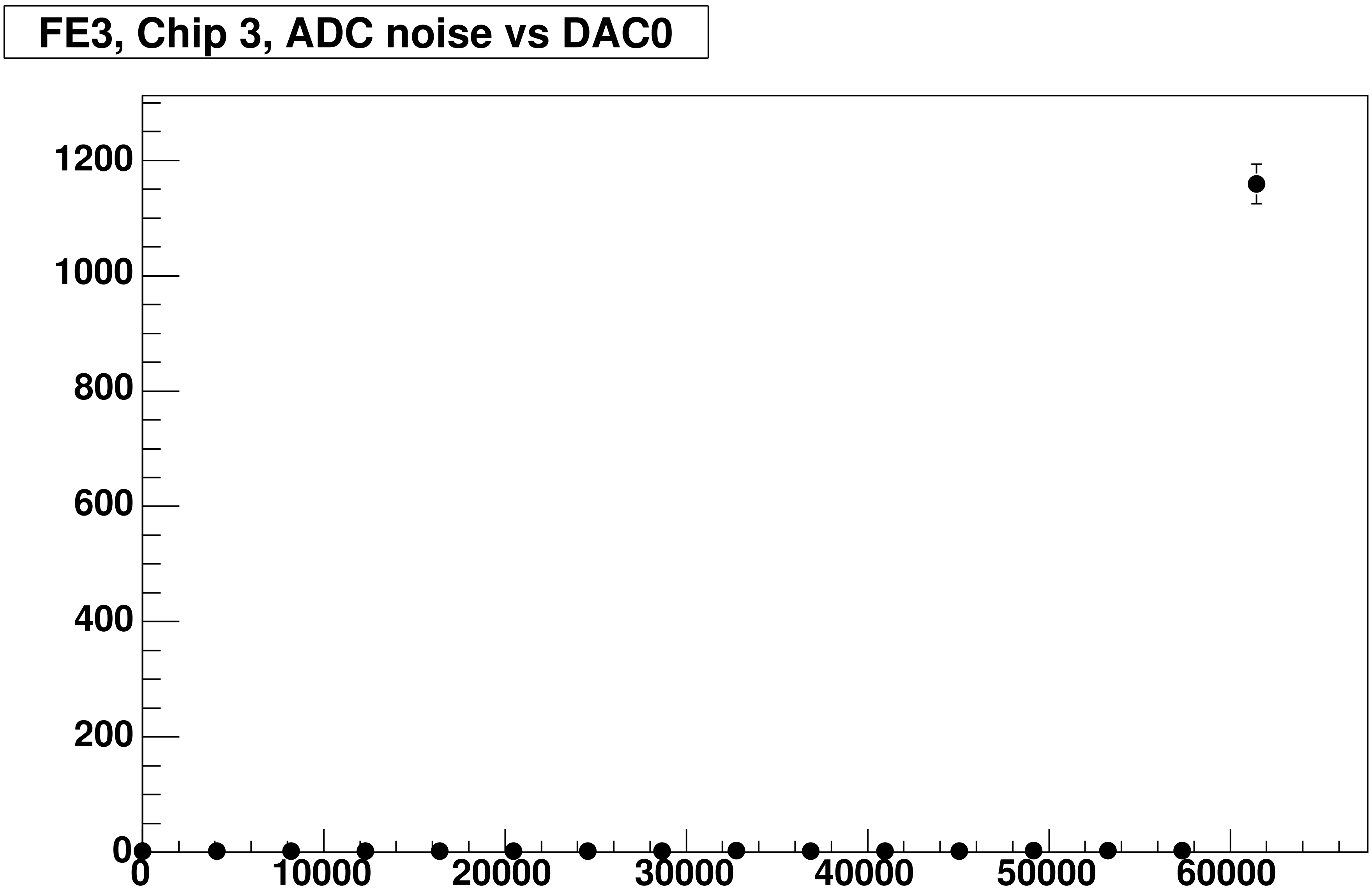


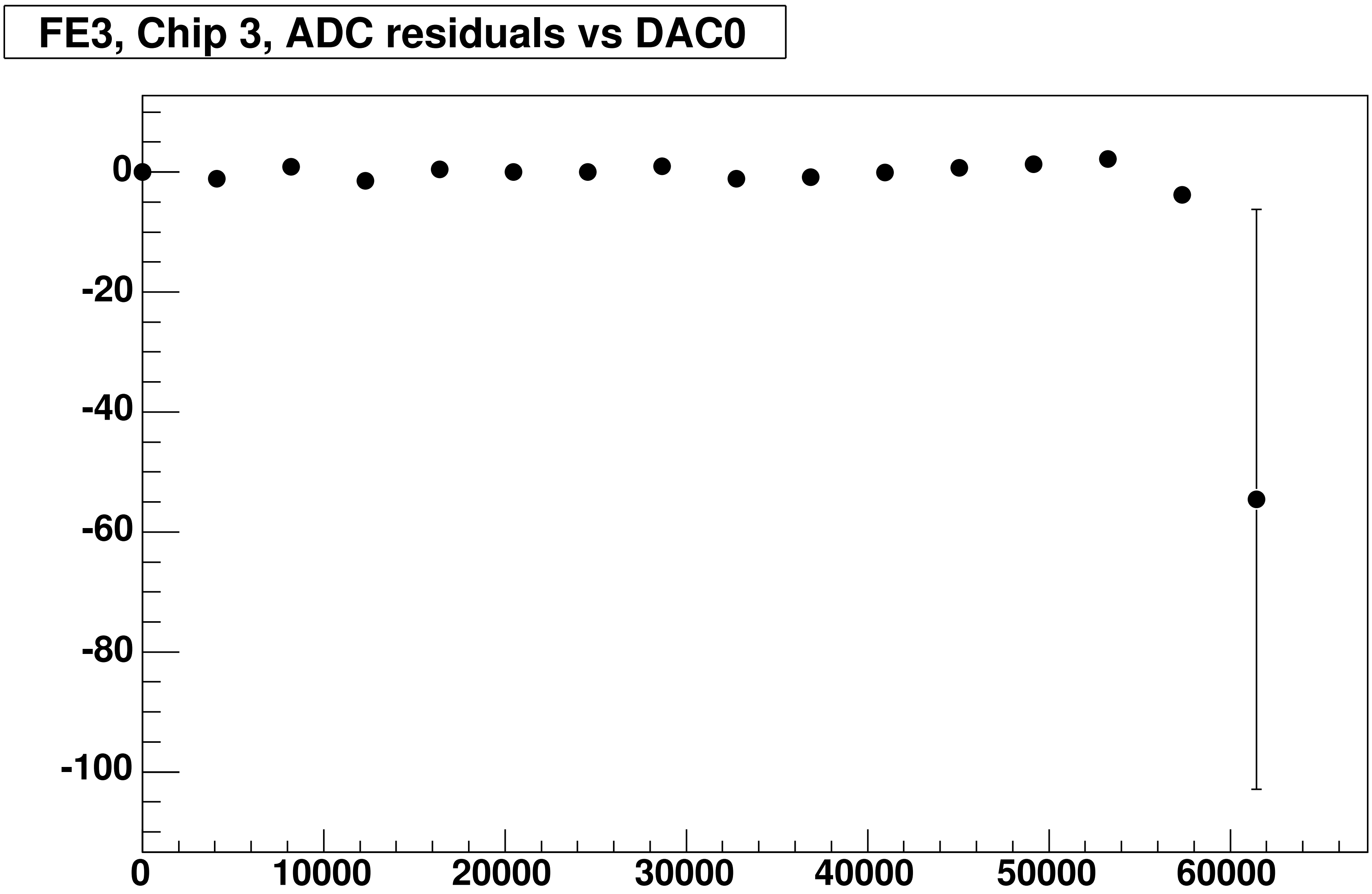
FE3, Chip 2, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

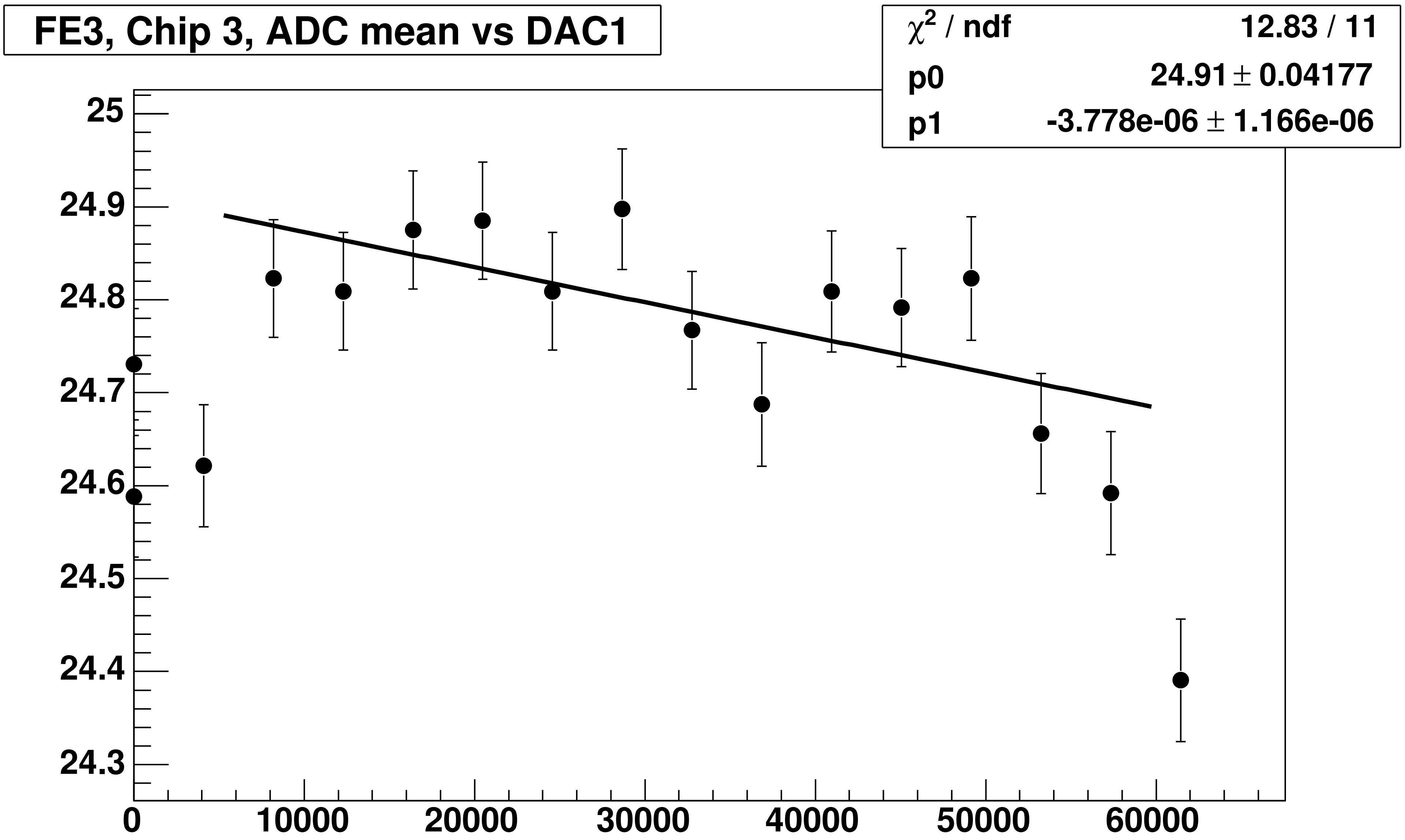


FE3, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

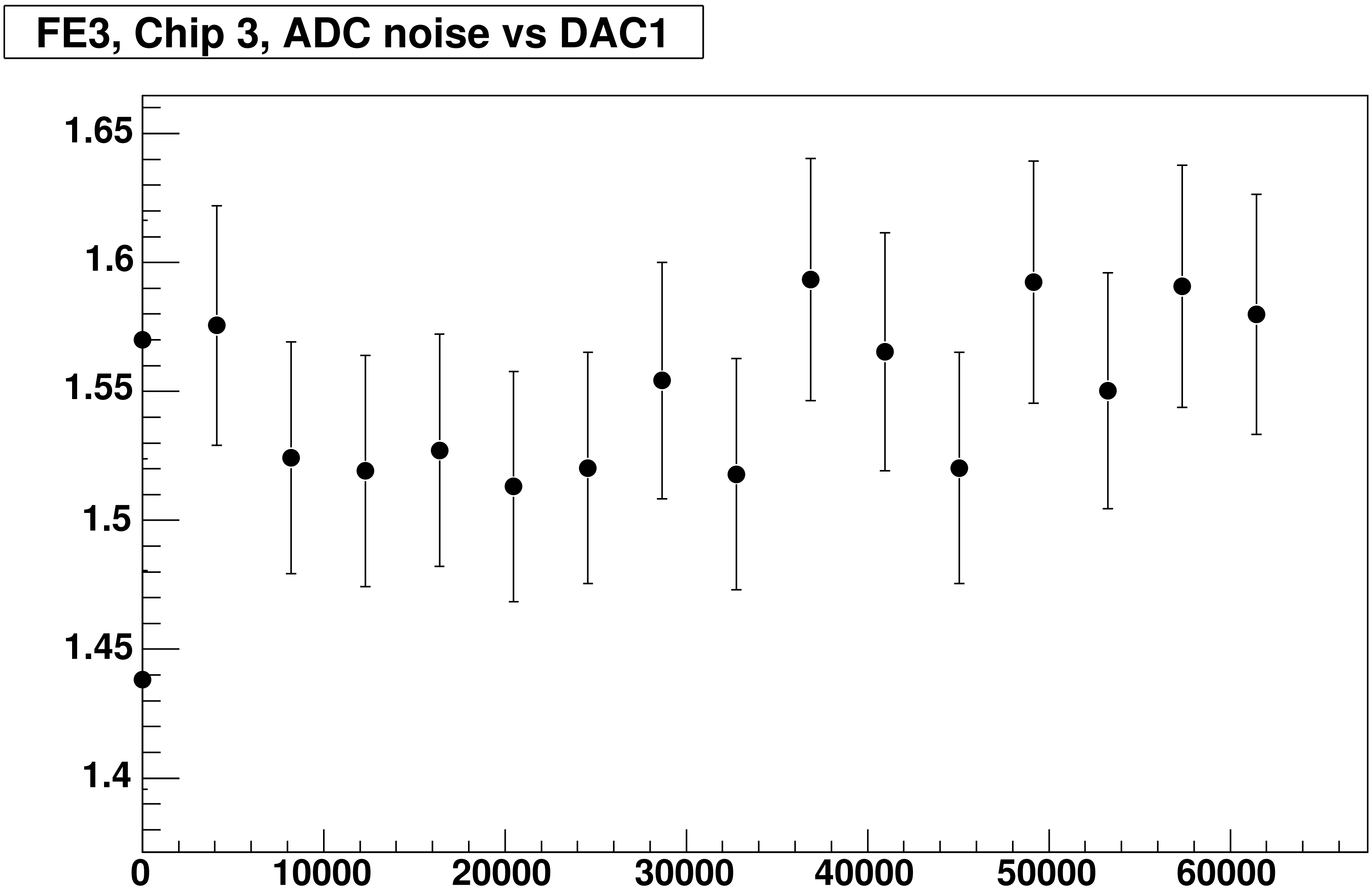

FE3, Chip 3, ADC mean vs DAC0
χ^2 / ndf 3310 / 11
p0 27.43 ± 0.04313
p1 0.4521 ± 1.406e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

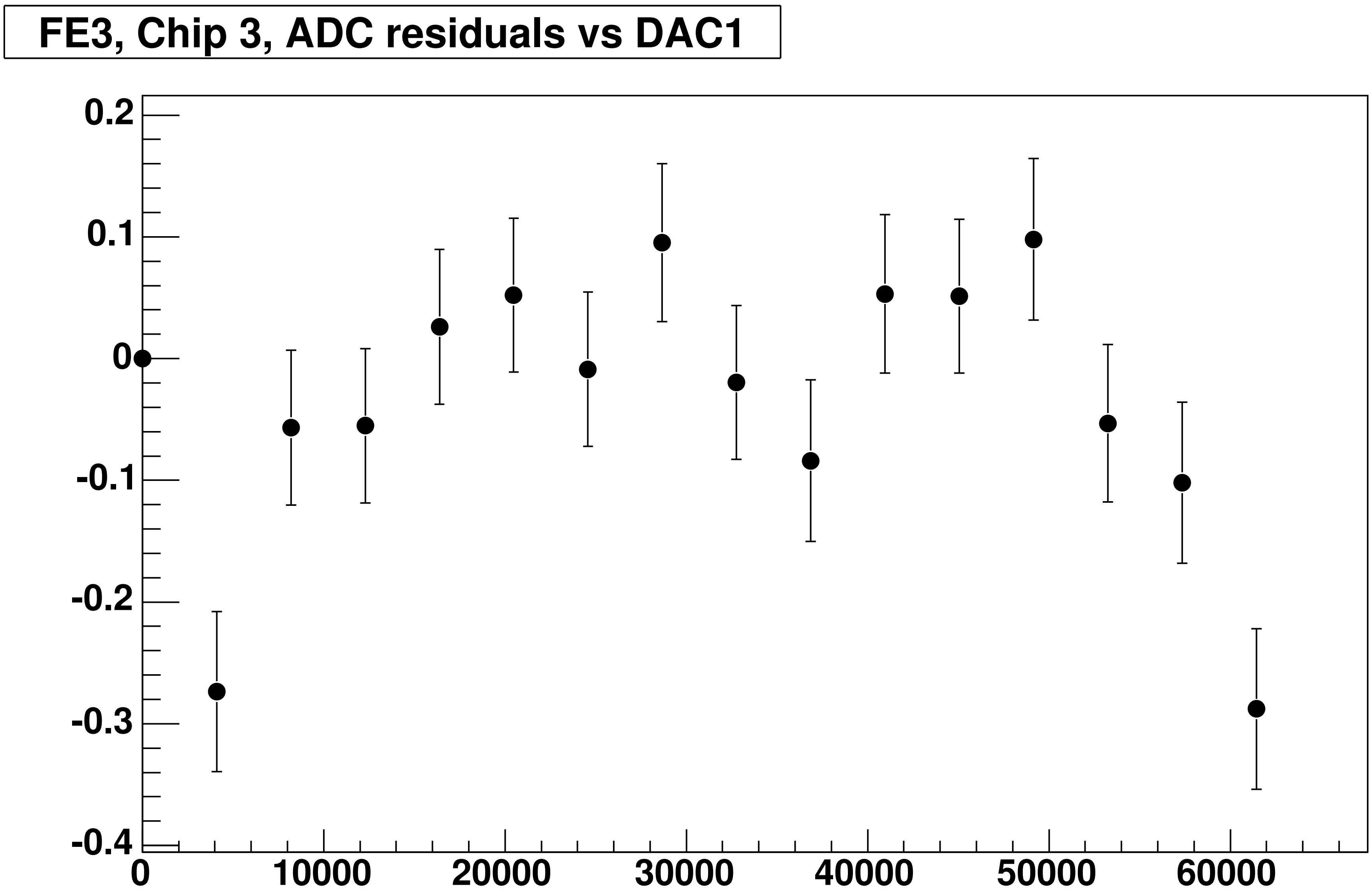

FE3, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

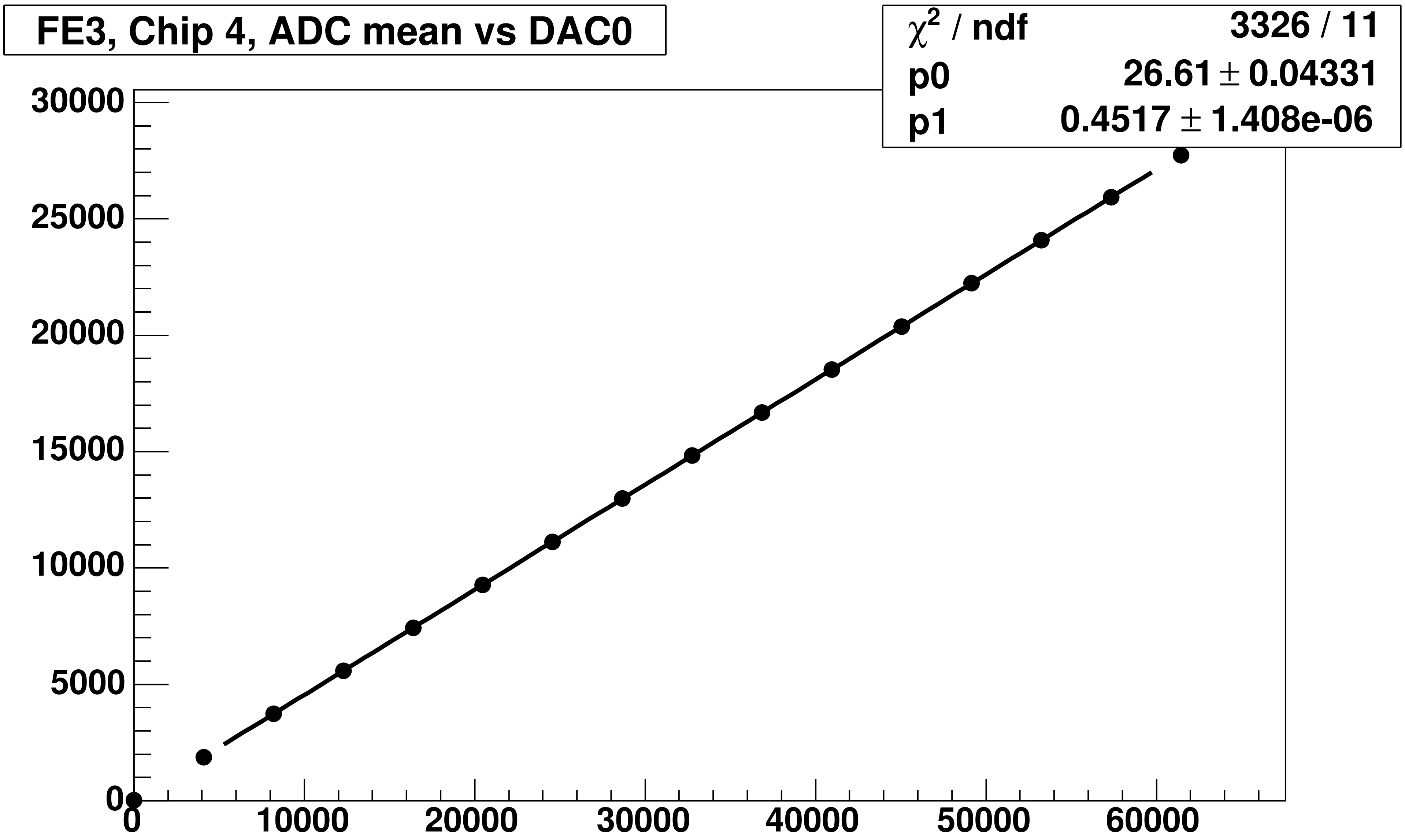

FE3, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



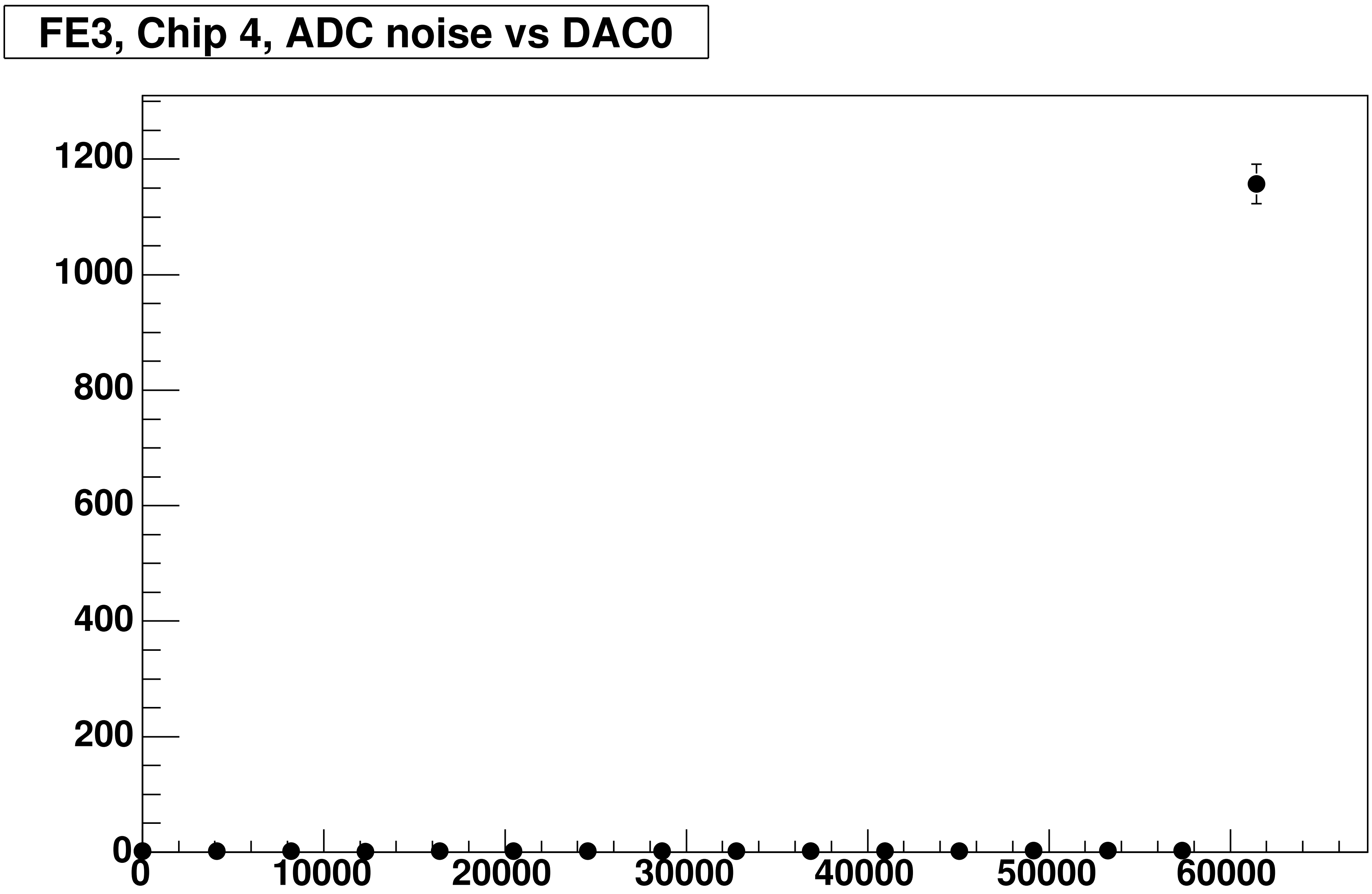
FE3, Chip 3, ADC mean vs DAC1
χ^2 / ndf 12.83 / 11
p0 24.91 ± 0.04177
p1 -3.778e-06 ± 1.166e-06
25
24.9
24.8
24.7
24.6
24.5
24.4
24.3
0
10000
20000
30000
40000
50000
60000

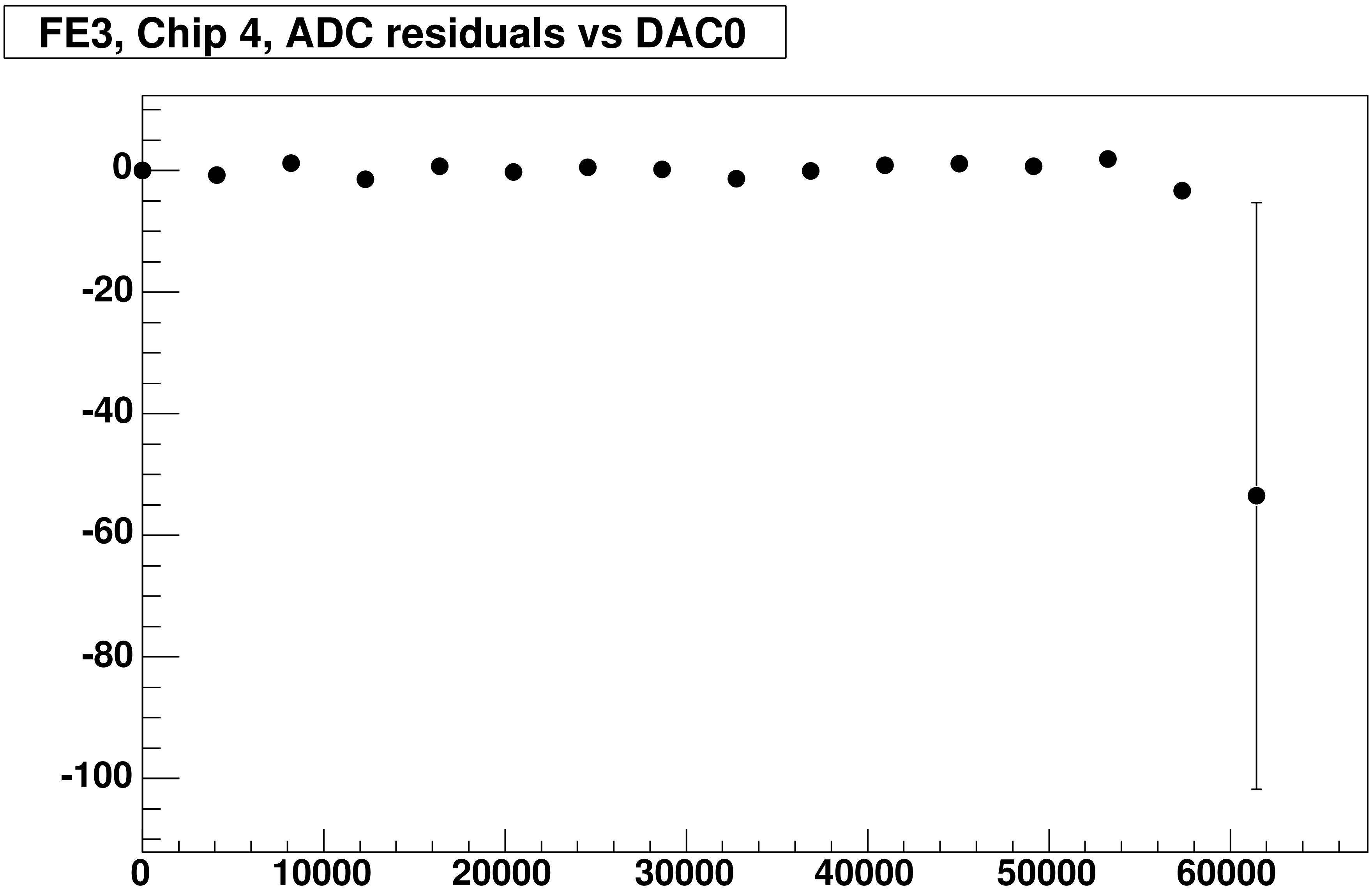

FE3, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


FE3, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

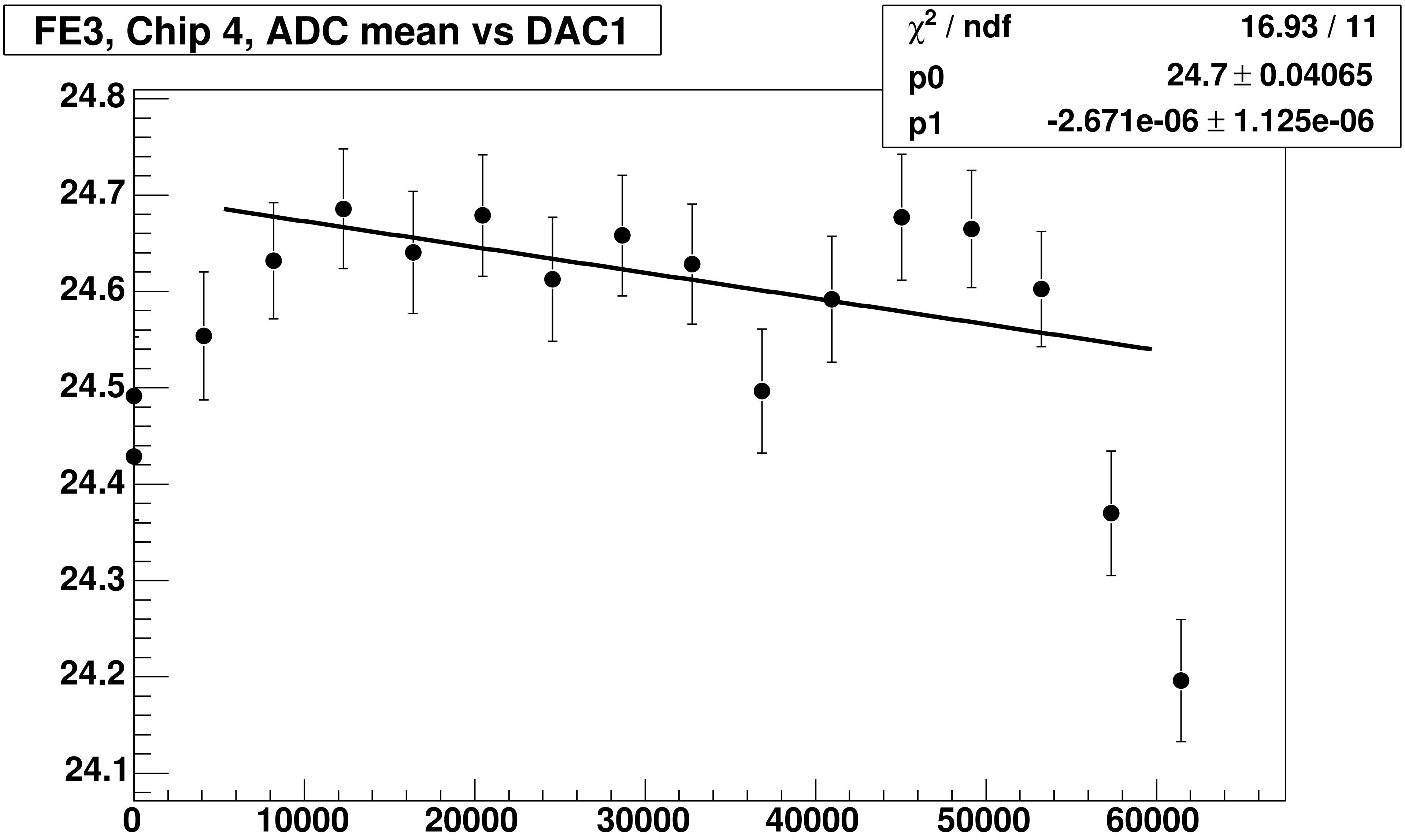


FE3, Chip 4, ADC mean vs DAC0
χ^2 / ndf 3326 / 11
p0 26.61 ± 0.04331
p1 0.4517 ± 1.408e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

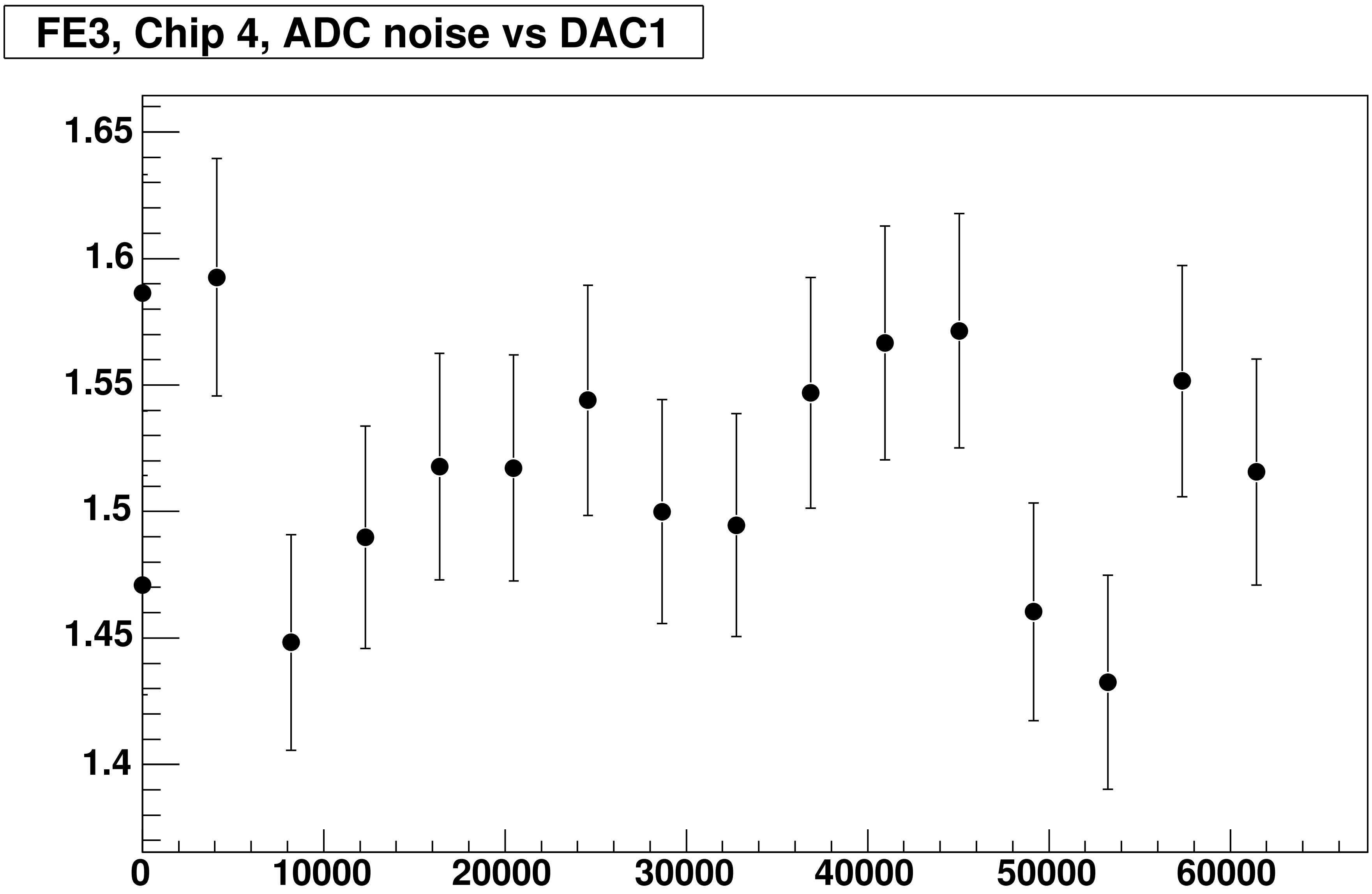

FE3, Chip 4, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

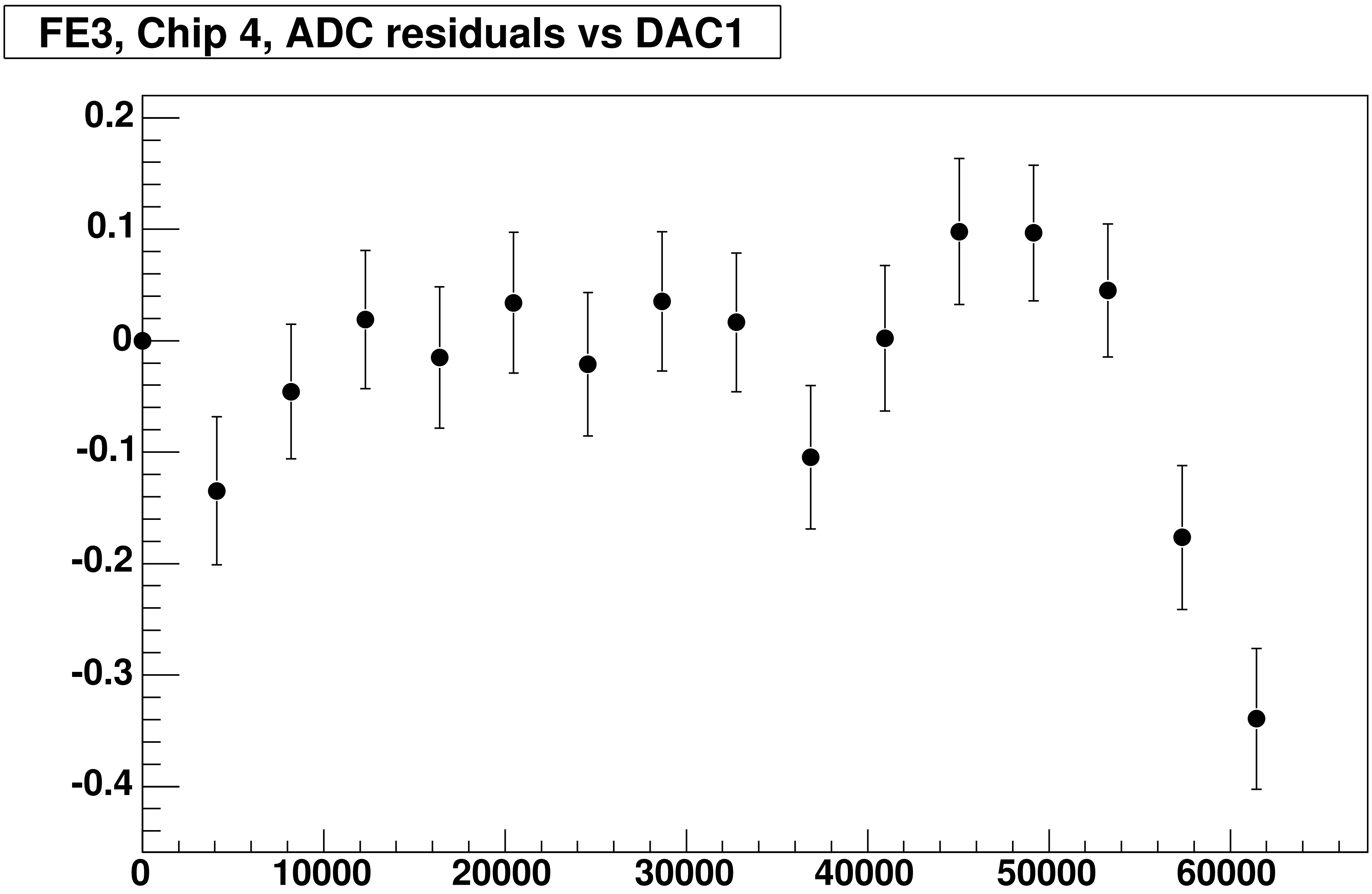


FE3, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

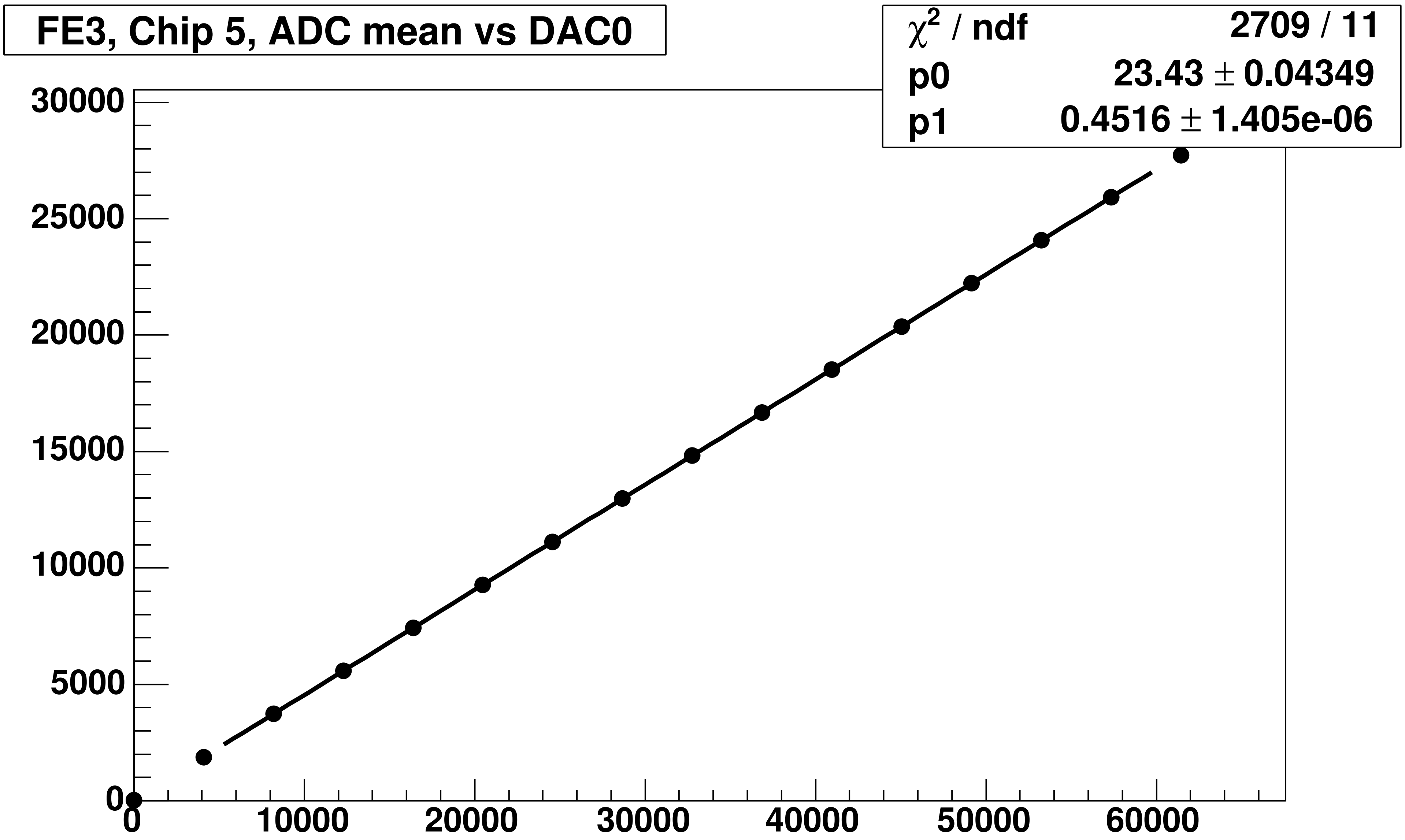


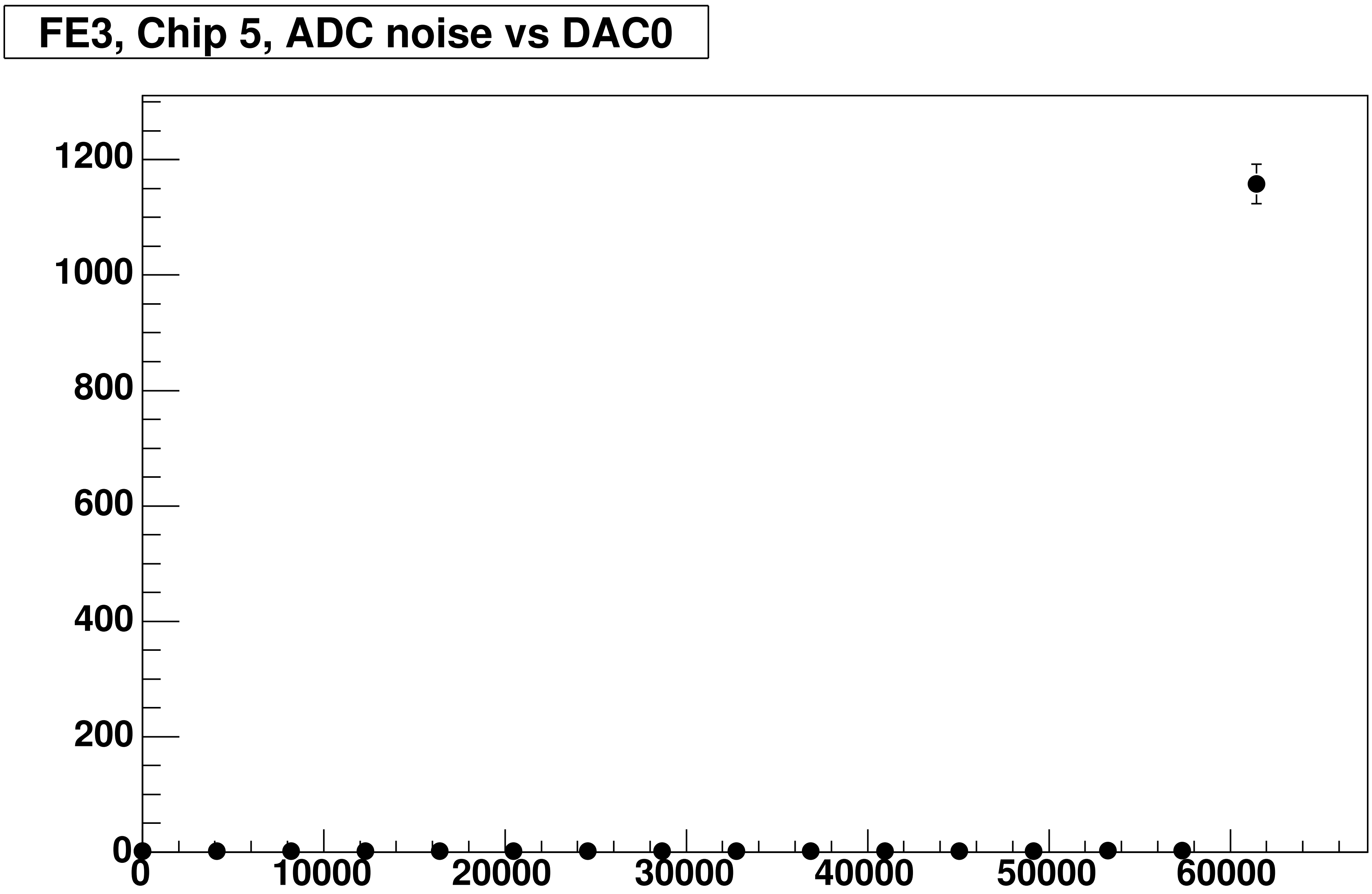
FE3, Chip 4, ADC mean vs DAC1
χ^2 / ndf 16.93 / 11
p0 24.7 ± 0.04065
p1 -2.671e-06 ± 1.125e-06
24.8
24.7
24.6
24.5
24.4
24.3
24.2
24.1
0
10000
20000
30000
40000
50000
60000

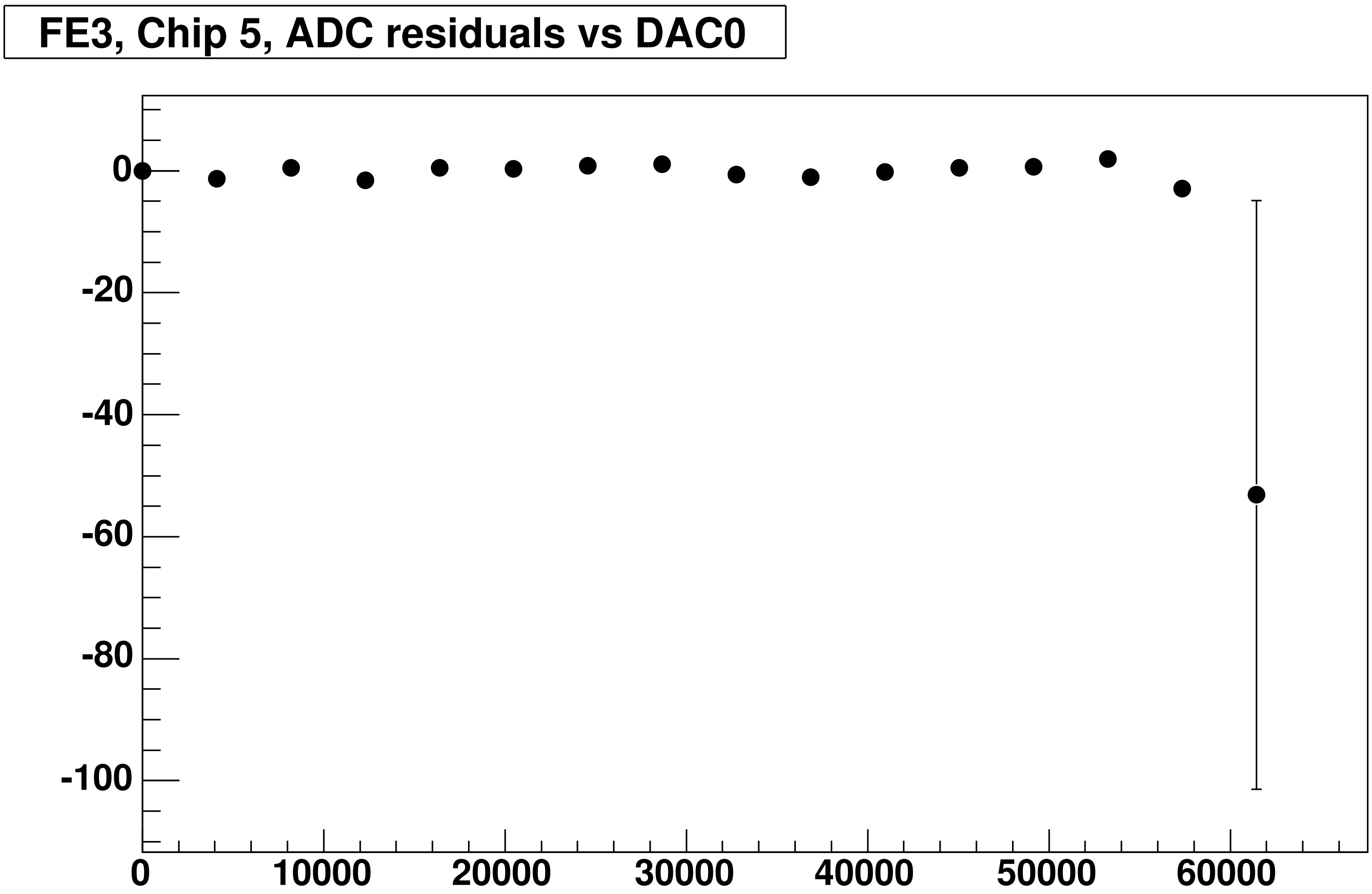

FE3, Chip 4, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

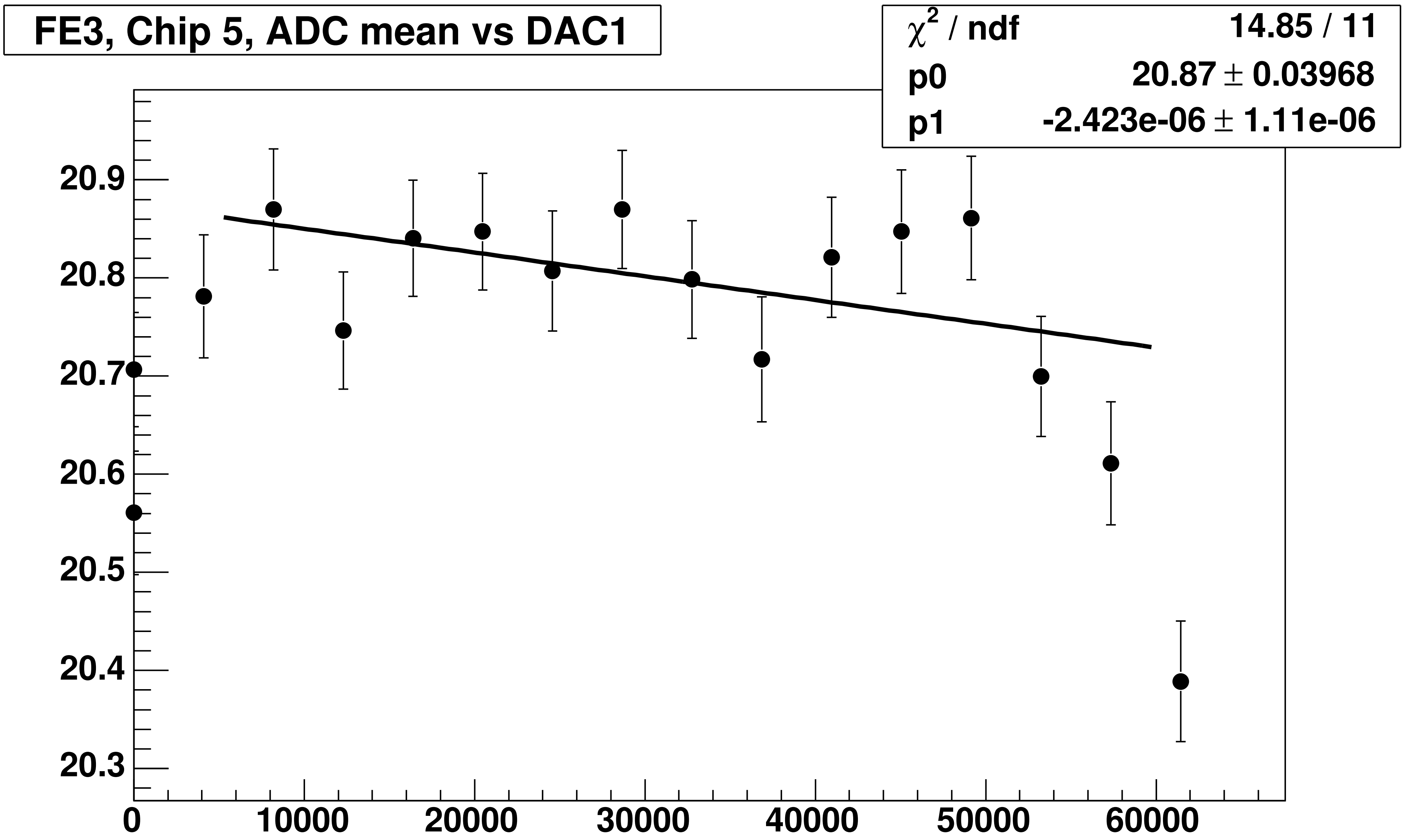


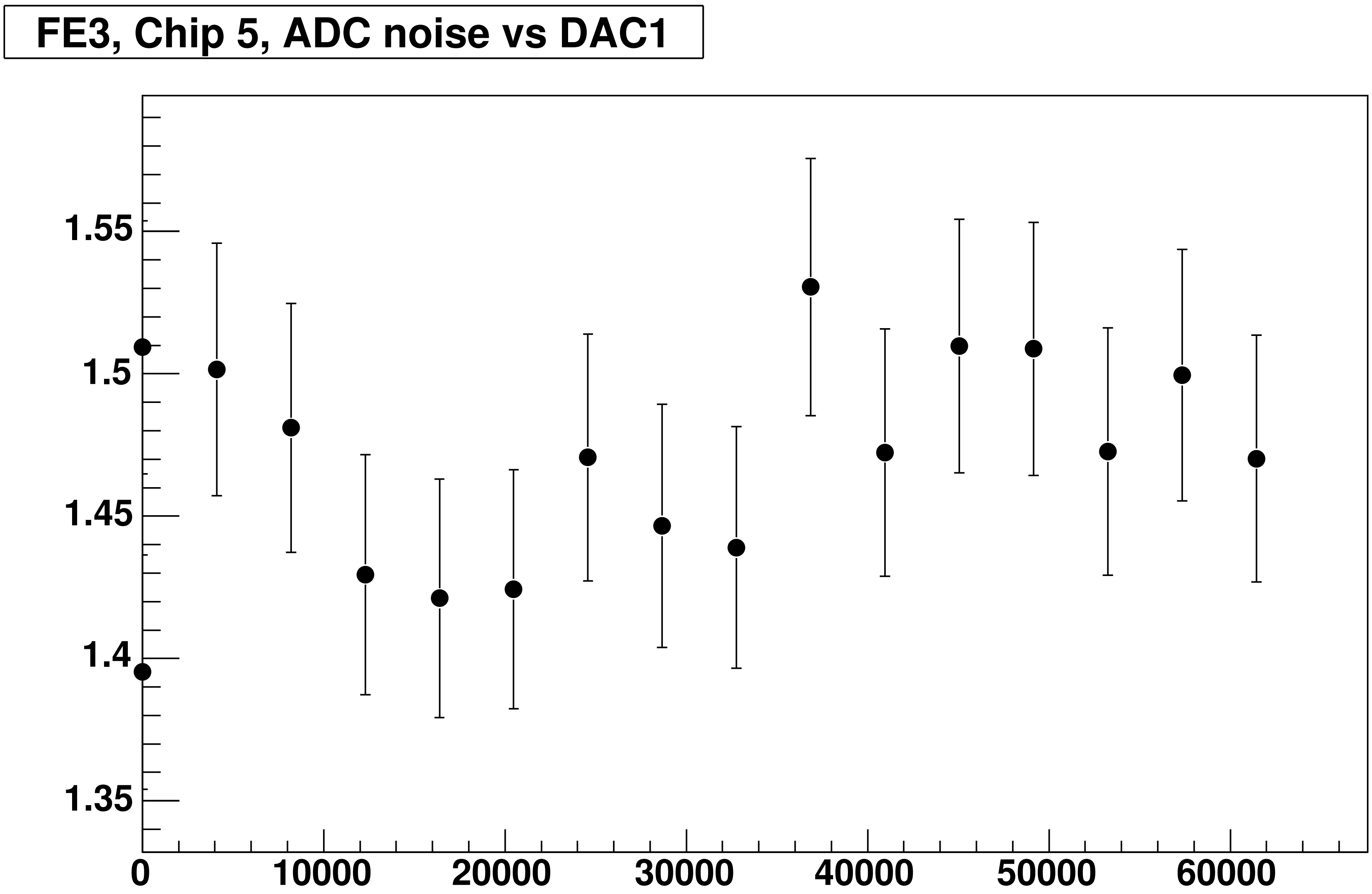
FE3, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

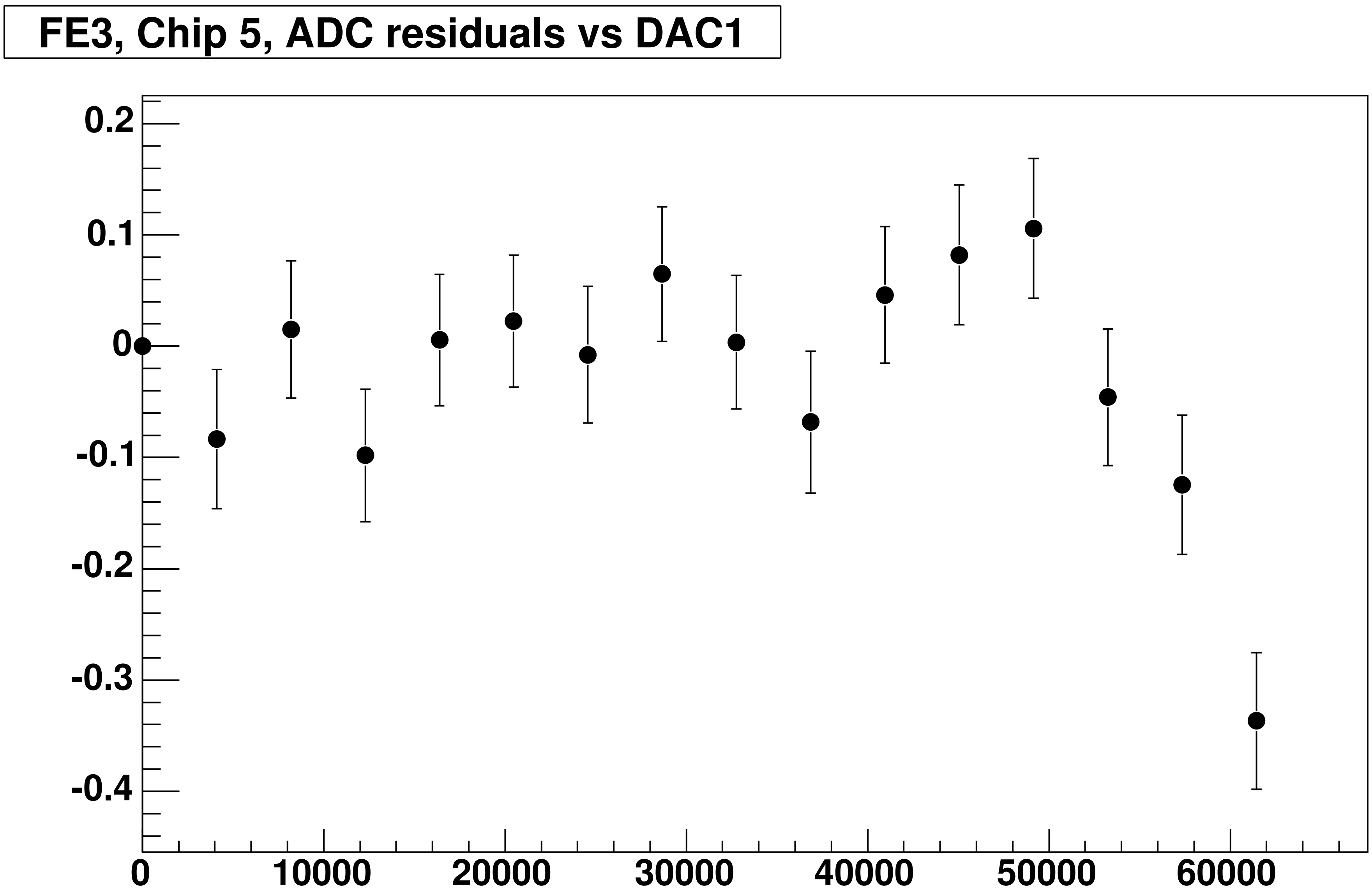

FE3, Chip 5, ADC mean vs DAC0
χ2 / ndf 2709 / 11
p0 23.43 ± 0.04349
p1 0.4516 ± 1.405e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

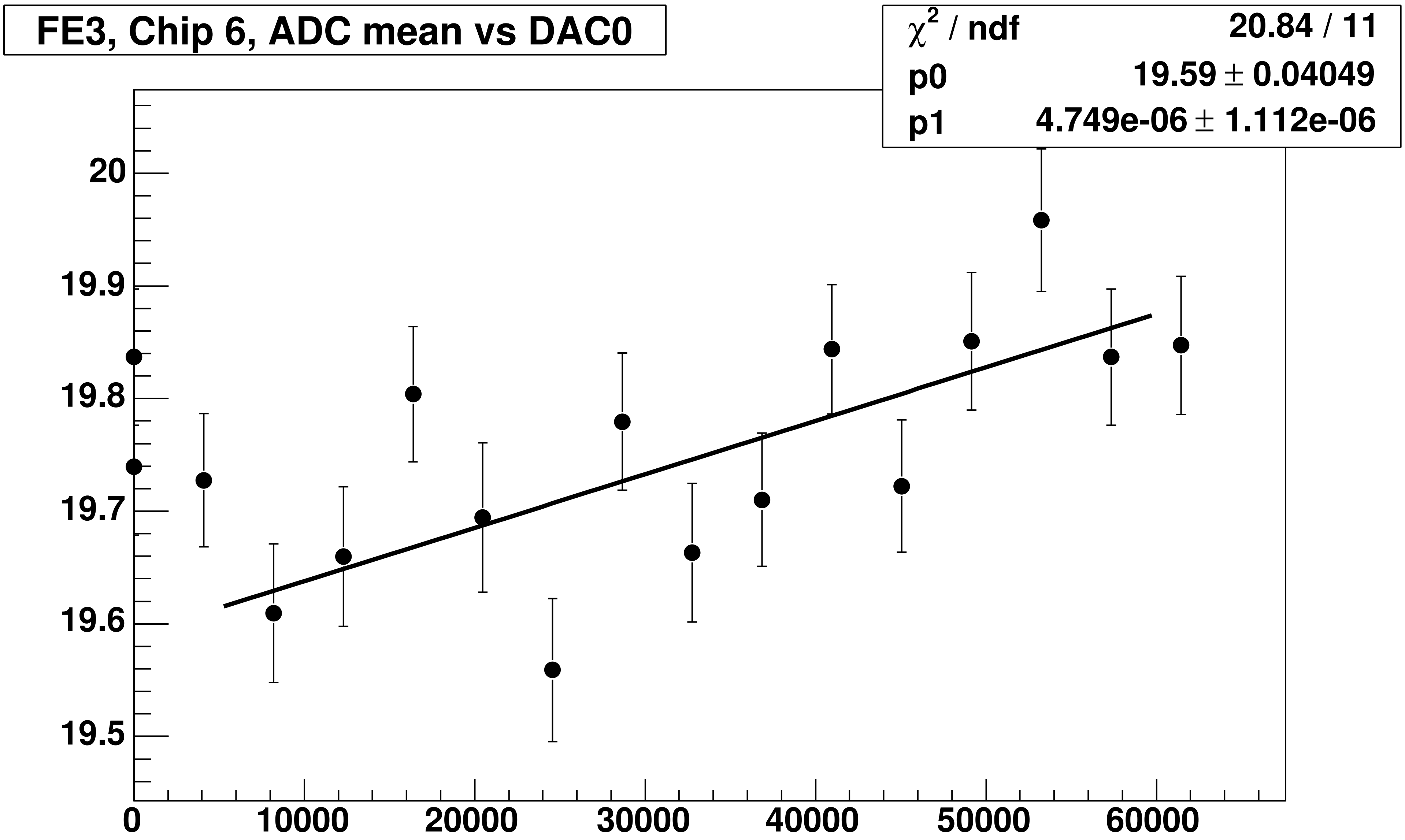

FE3, Chip 5, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

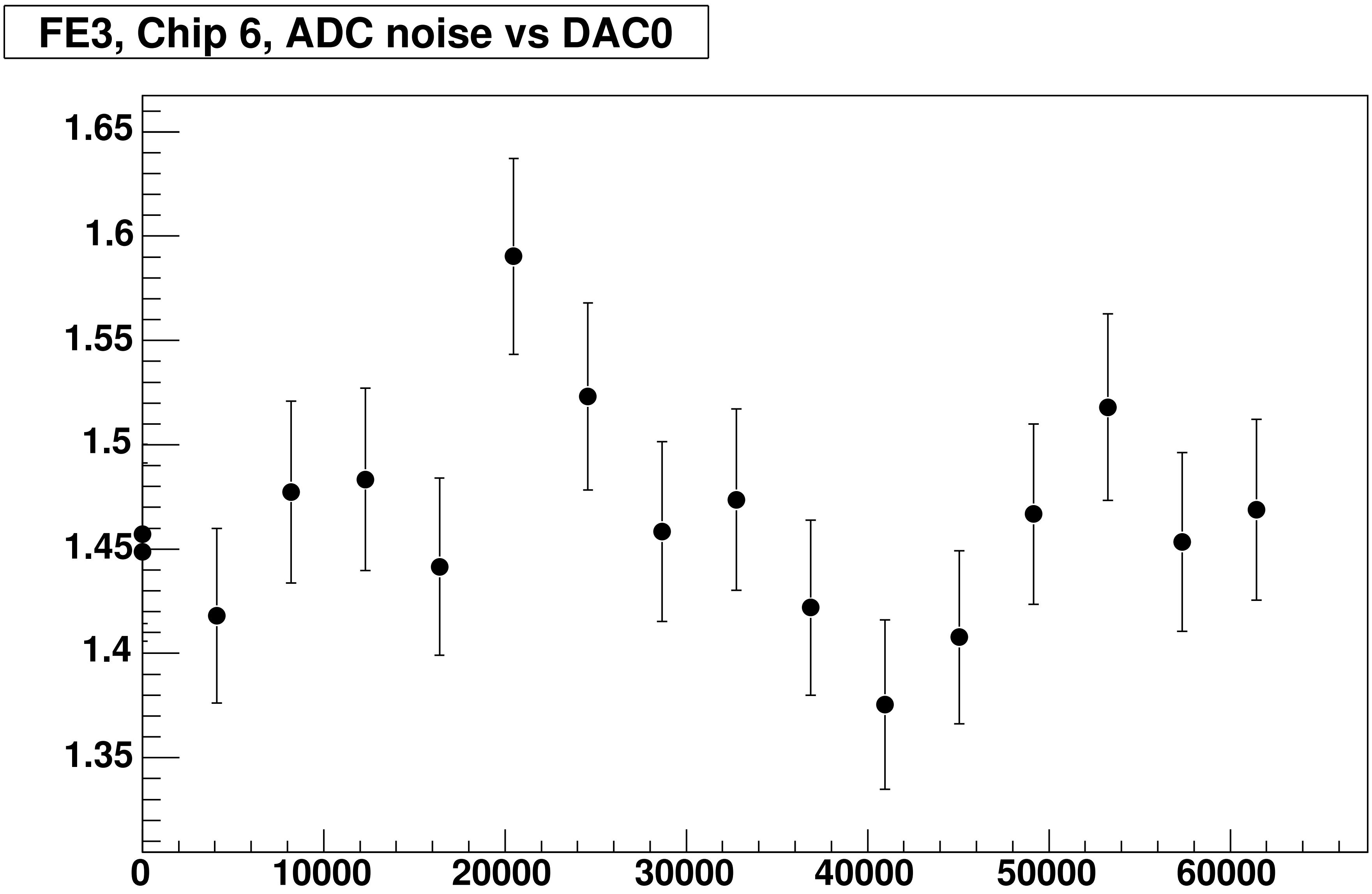

FE3, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE3, Chip 5, ADC mean vs DAC1
χ^2 / ndf 14.85 / 11
p0 20.87 ± 0.03968
p1 -2.423e-06 ± 1.11e-06
20.9
20.8
20.7
20.6
20.5
20.4
20.3
0
10000
20000
30000
40000
50000
60000

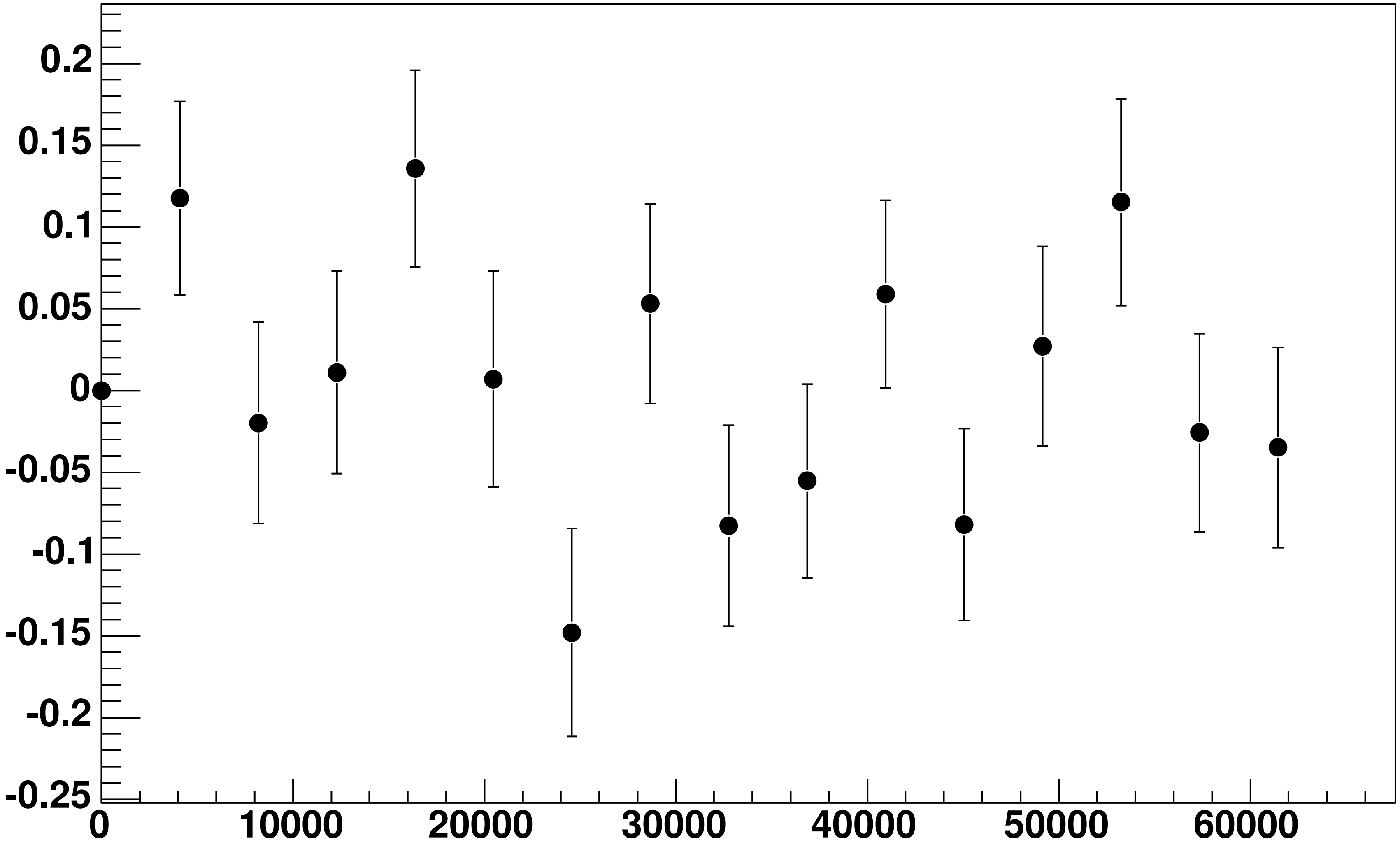

FE3, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

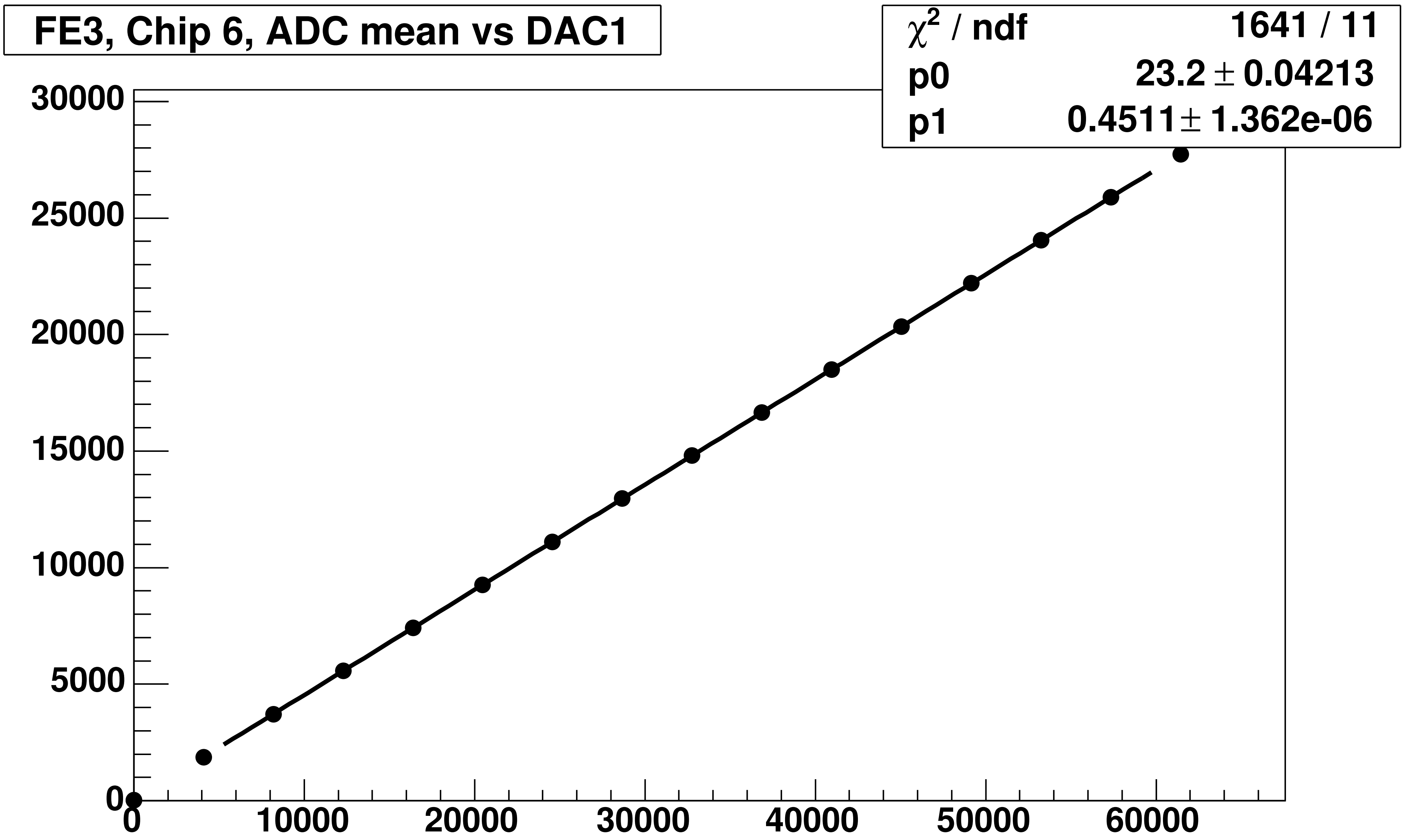

FE3, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000


FE3, Chip 6, ADC mean vs DAC0
χ^2 / ndf 20.84 / 11
p0 19.59 ± 0.04049
p1 4.749e-06 ± 1.112e-06
20
19.9
19.8
19.7
19.6
19.5
0
10000
20000
30000
40000
50000
60000

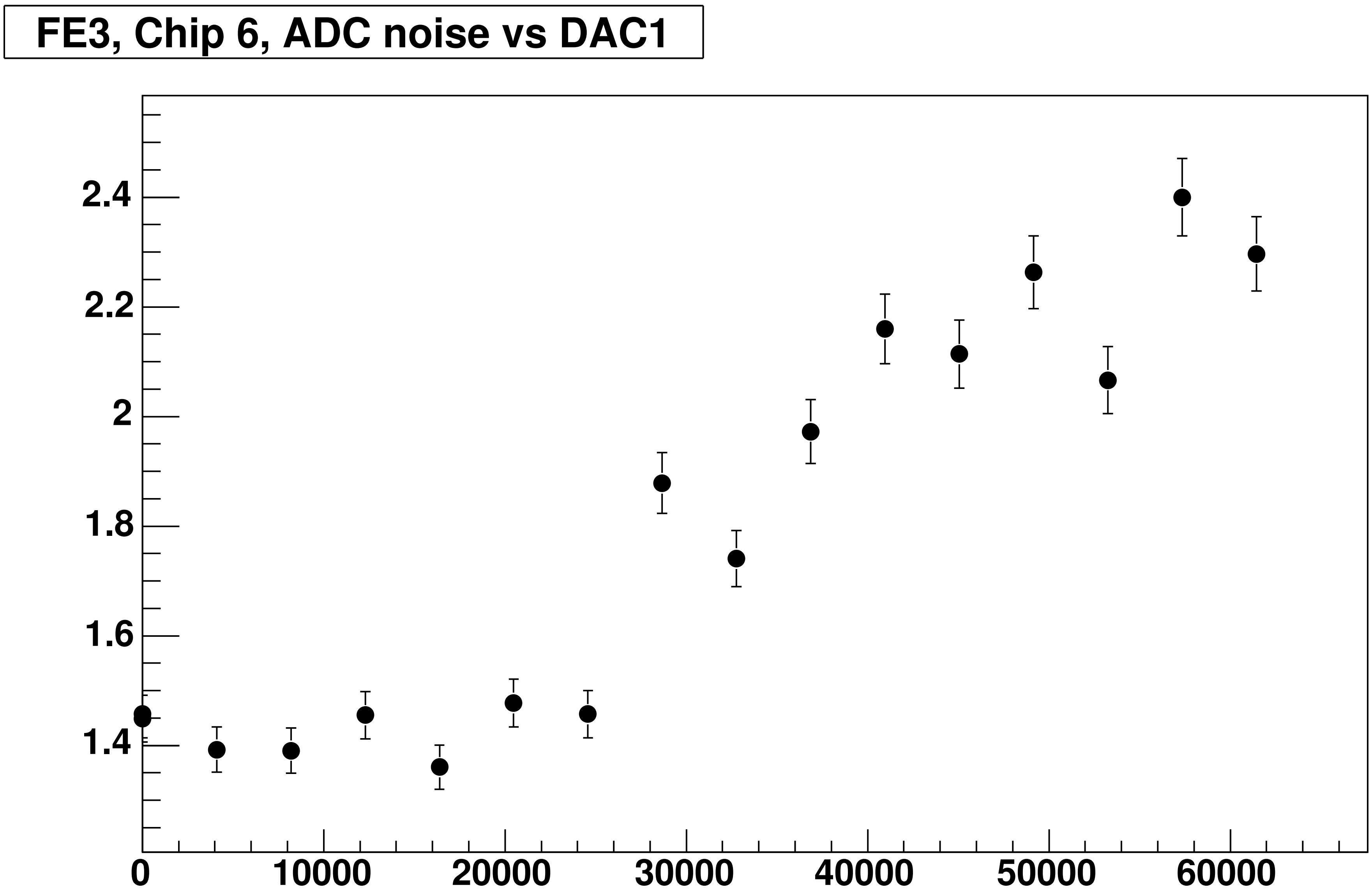

FE3, Chip 6, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

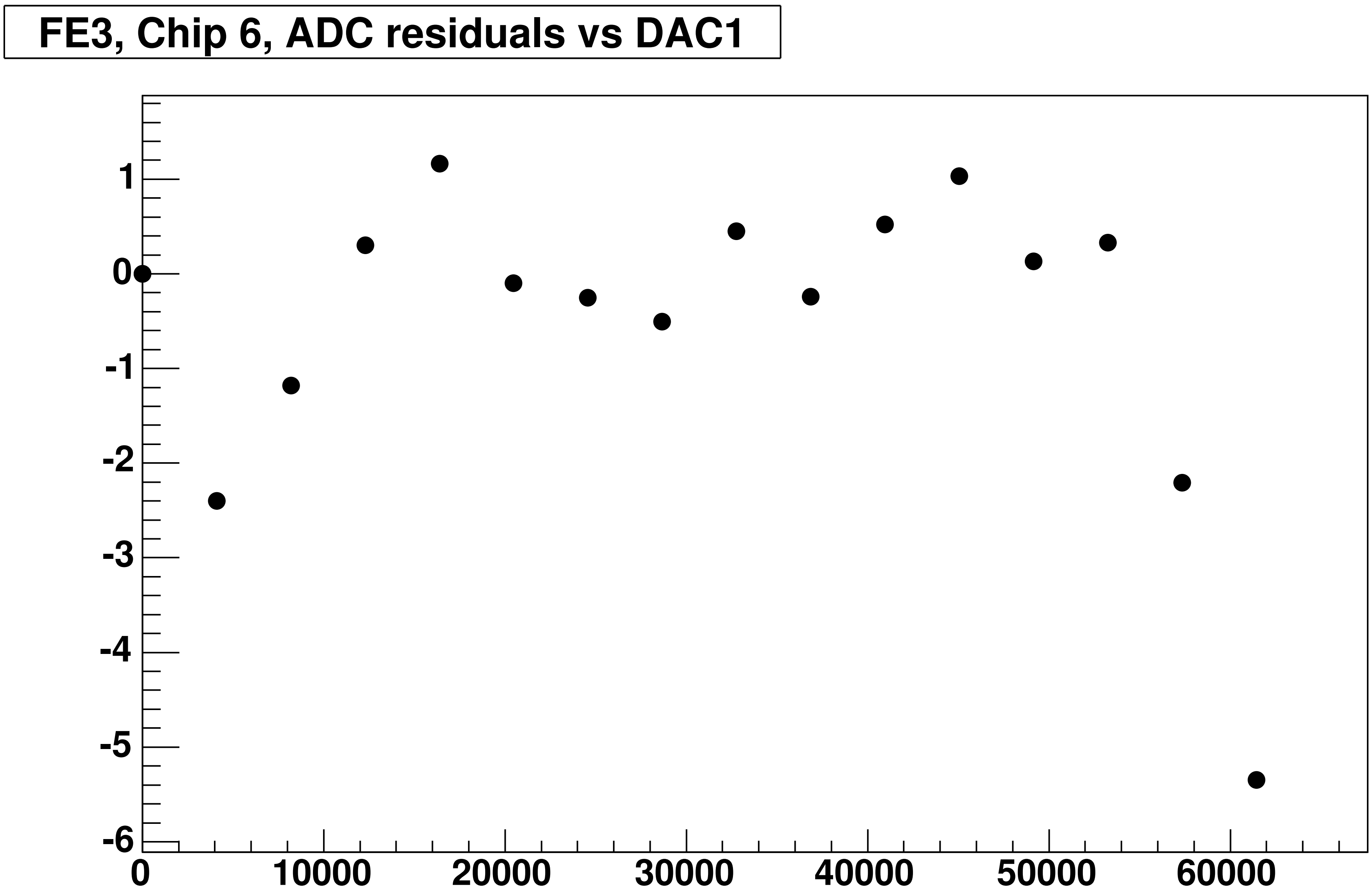
FE3, Chip 6, ADC residuals vs DAC0



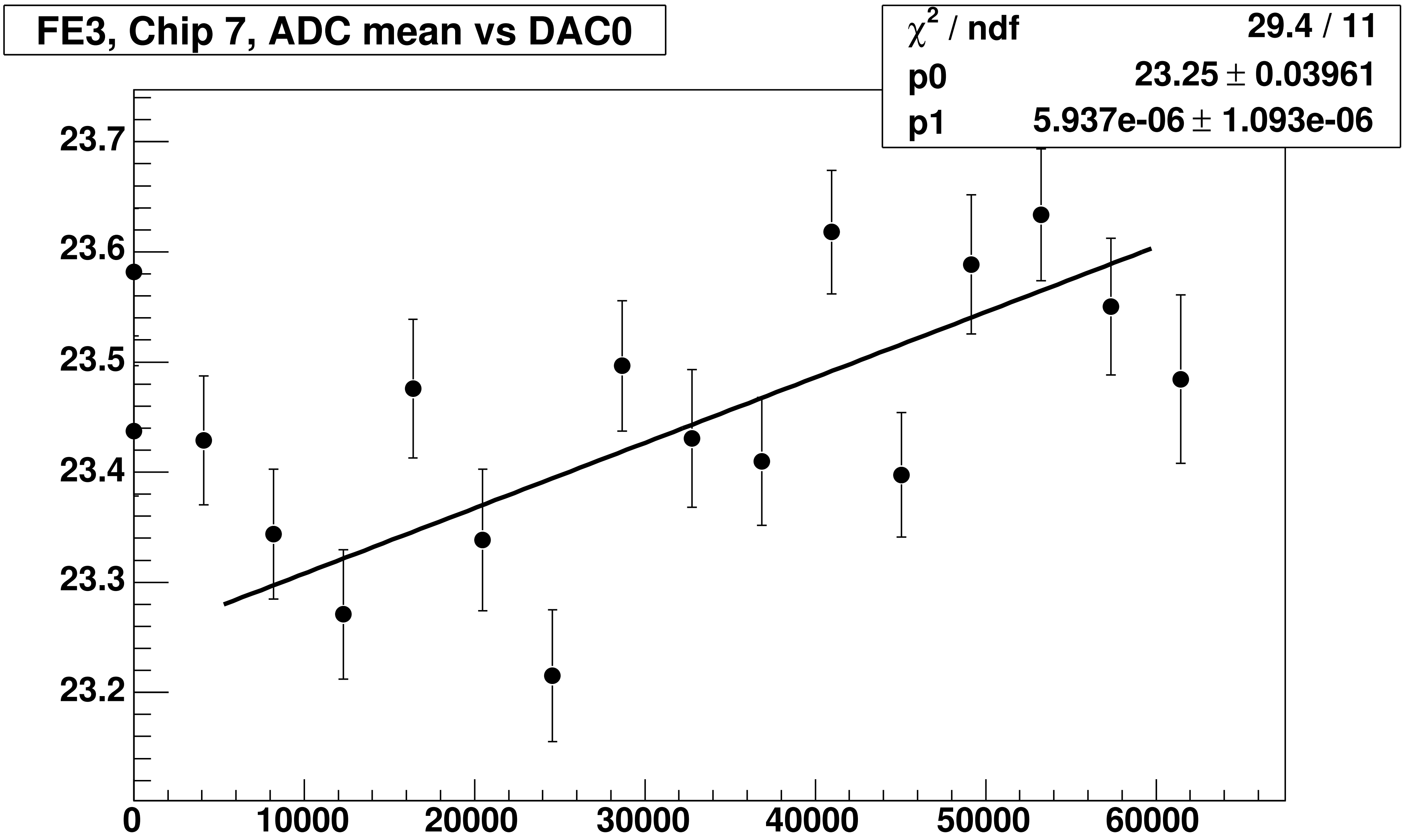


FE3, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1641 / 11
p0 23.2 ± 0.04213
p1 0.4511 ± 1.362e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

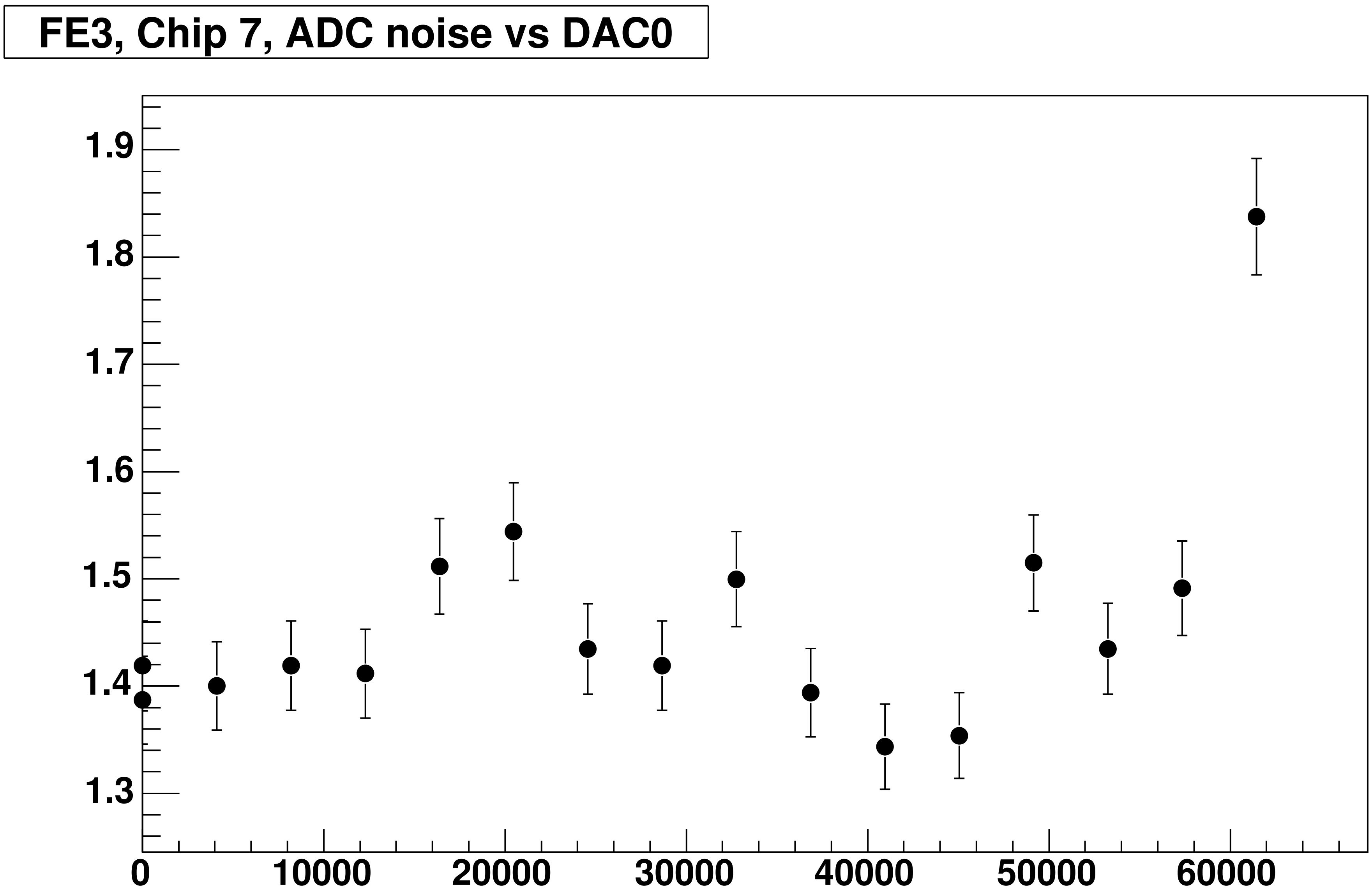

FE3, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

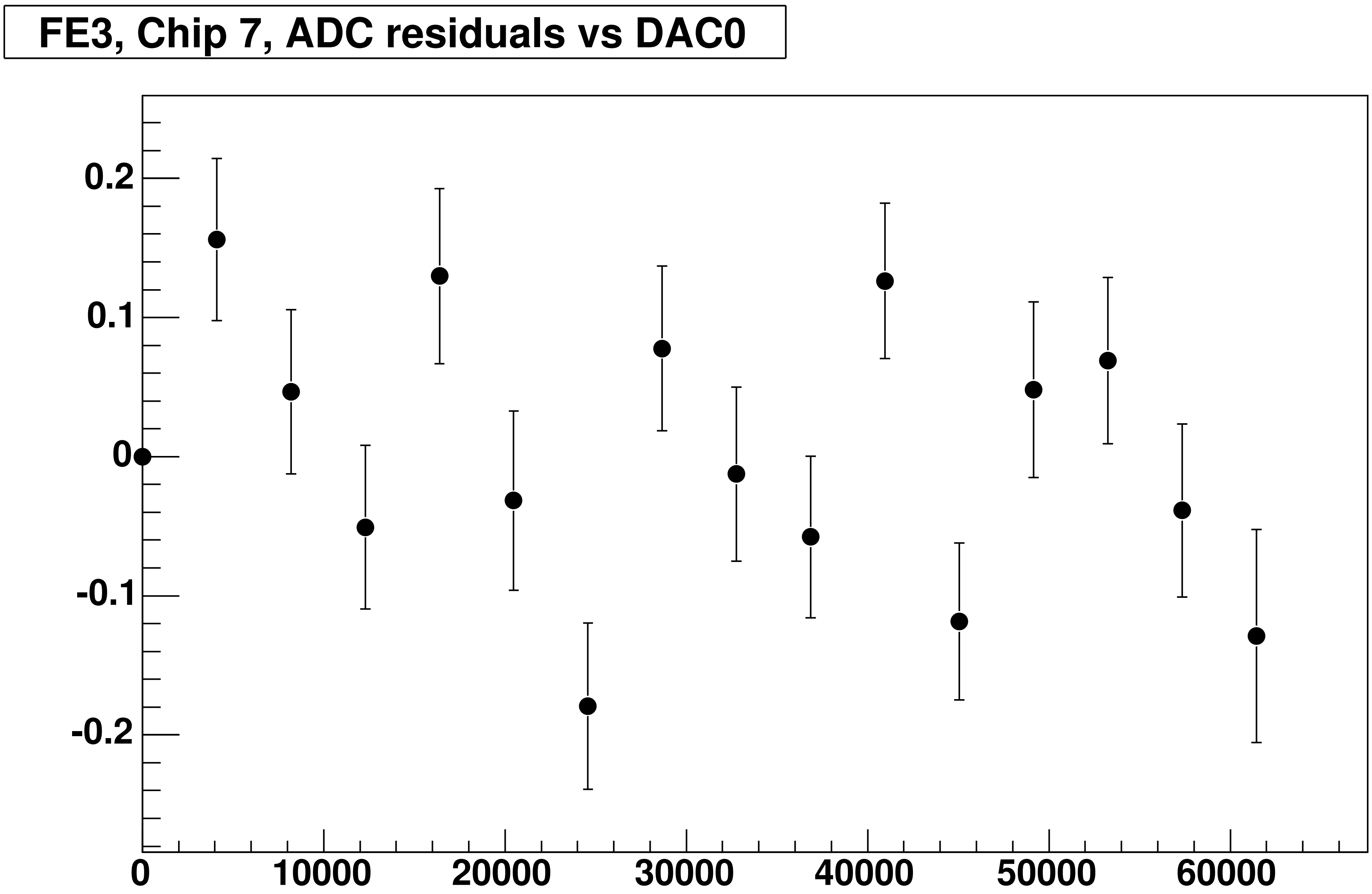


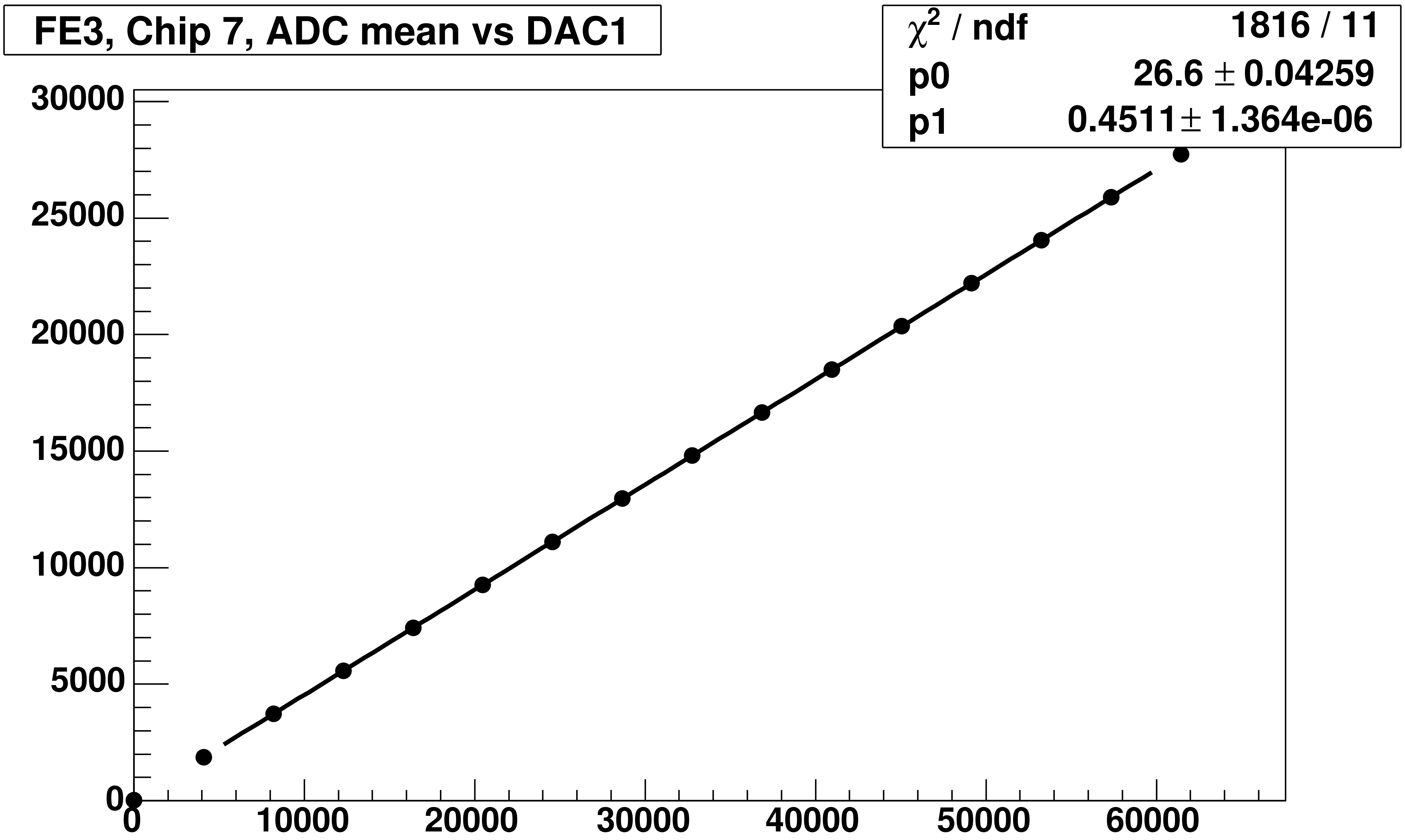
FE3, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

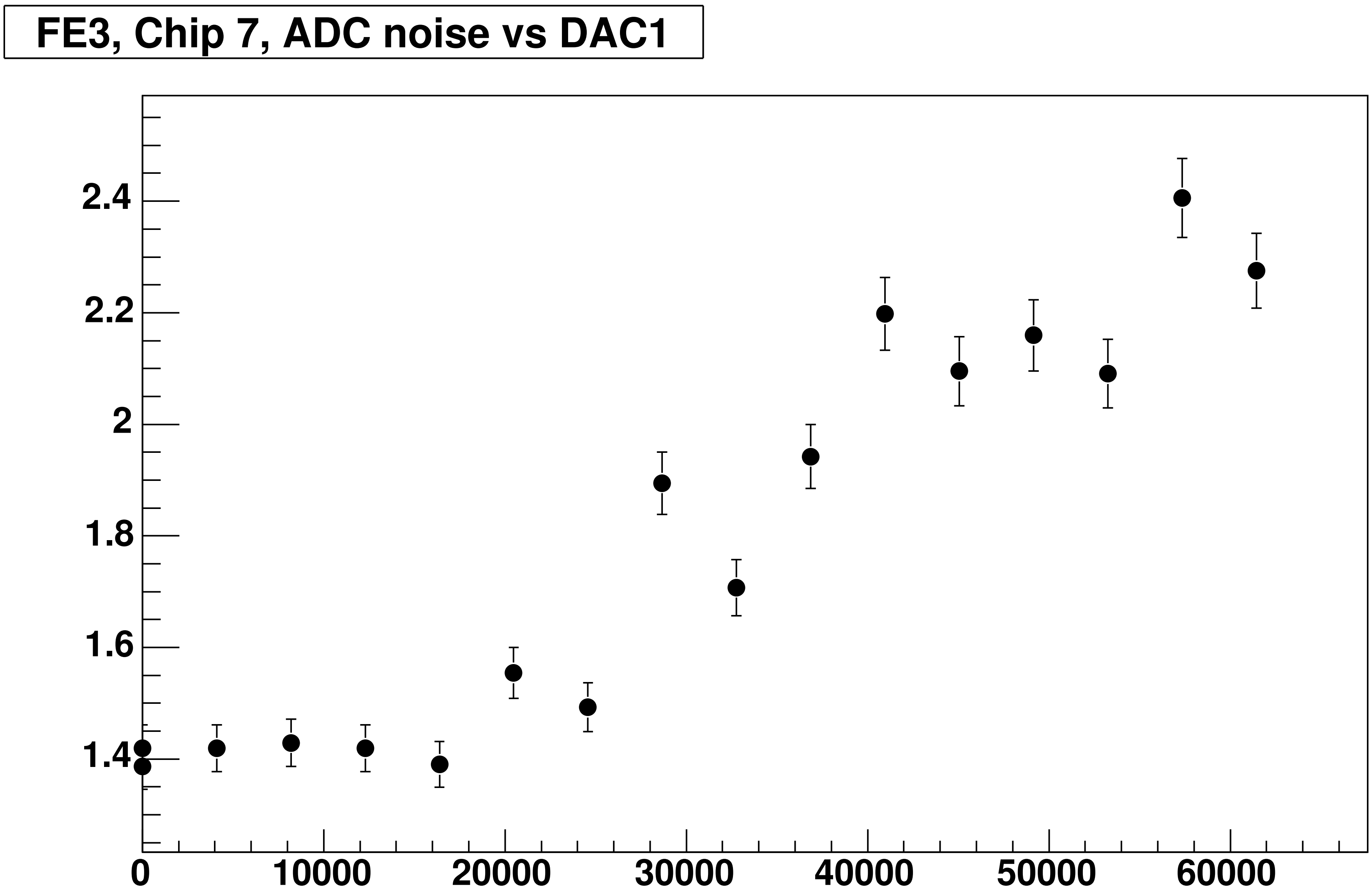


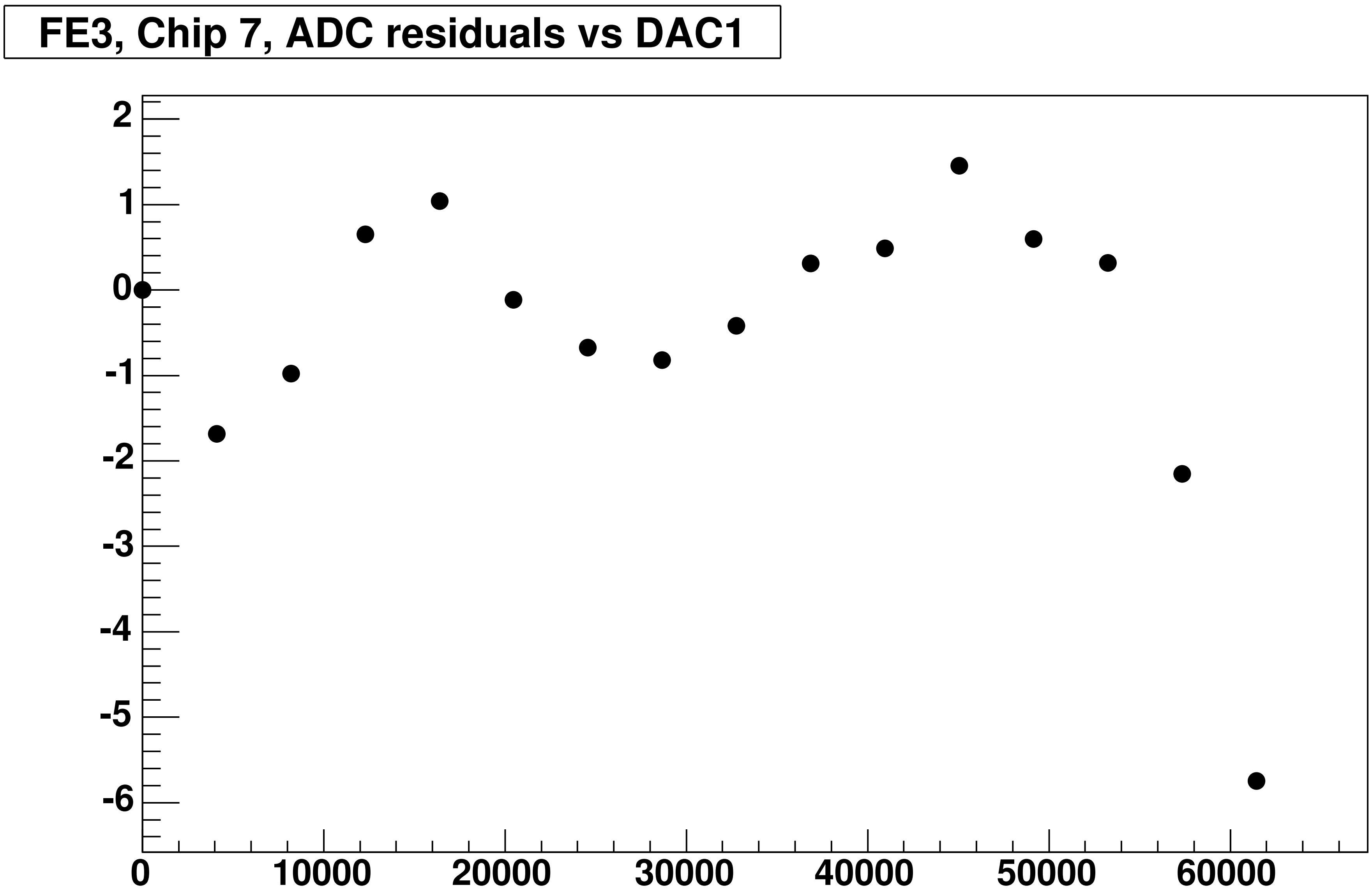
FE3, Chip 7, ADC mean vs DAC0
χ^2 / ndf 29.4 / 11
p0 23.25 ± 0.03961
p1 5.937e-06 ± 1.093e-06
23.2
23.3
23.4
23.5
23.6
23.7
0
10000
20000
30000
40000
50000
60000

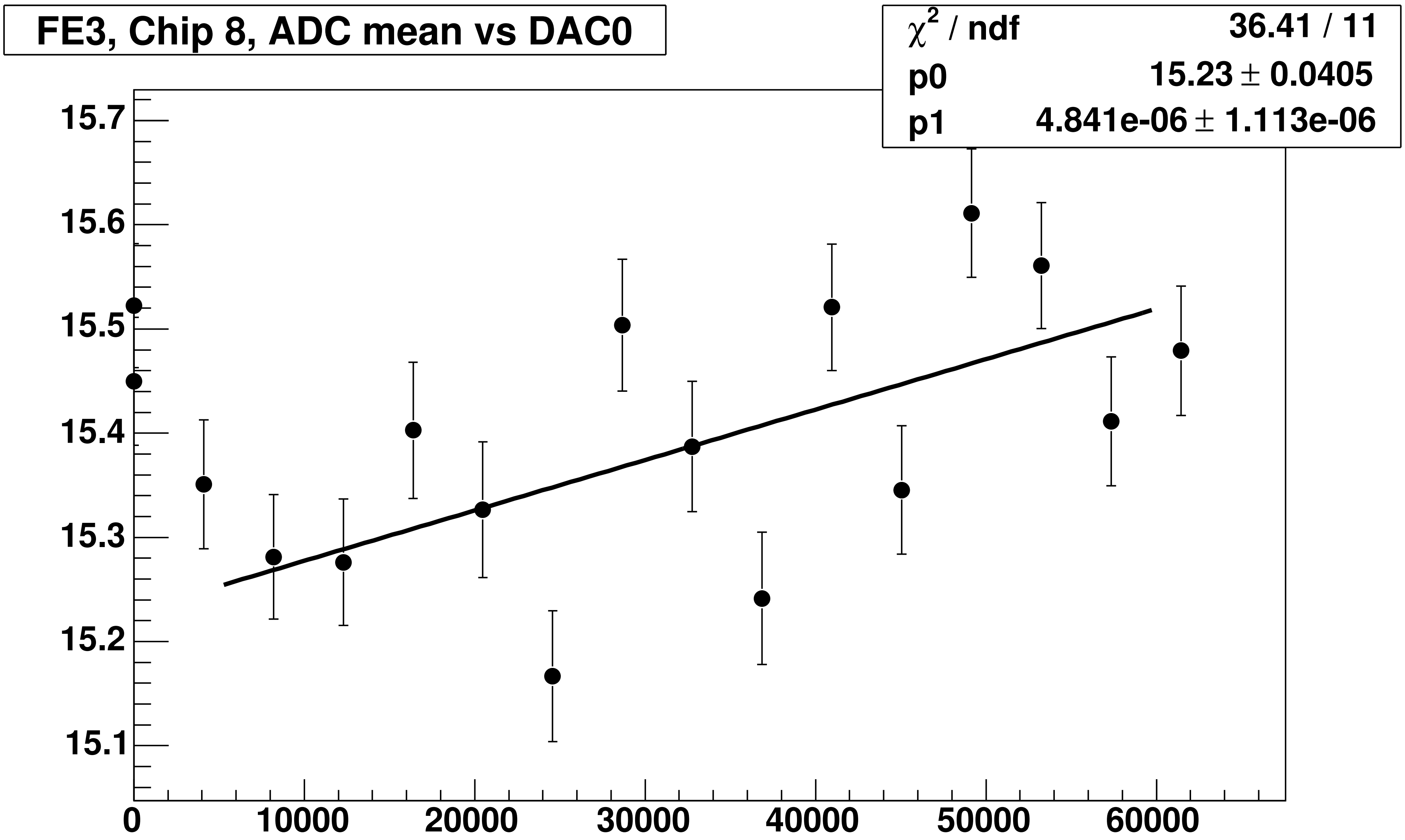

FE3, Chip 7, ADC noise vs DAC0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

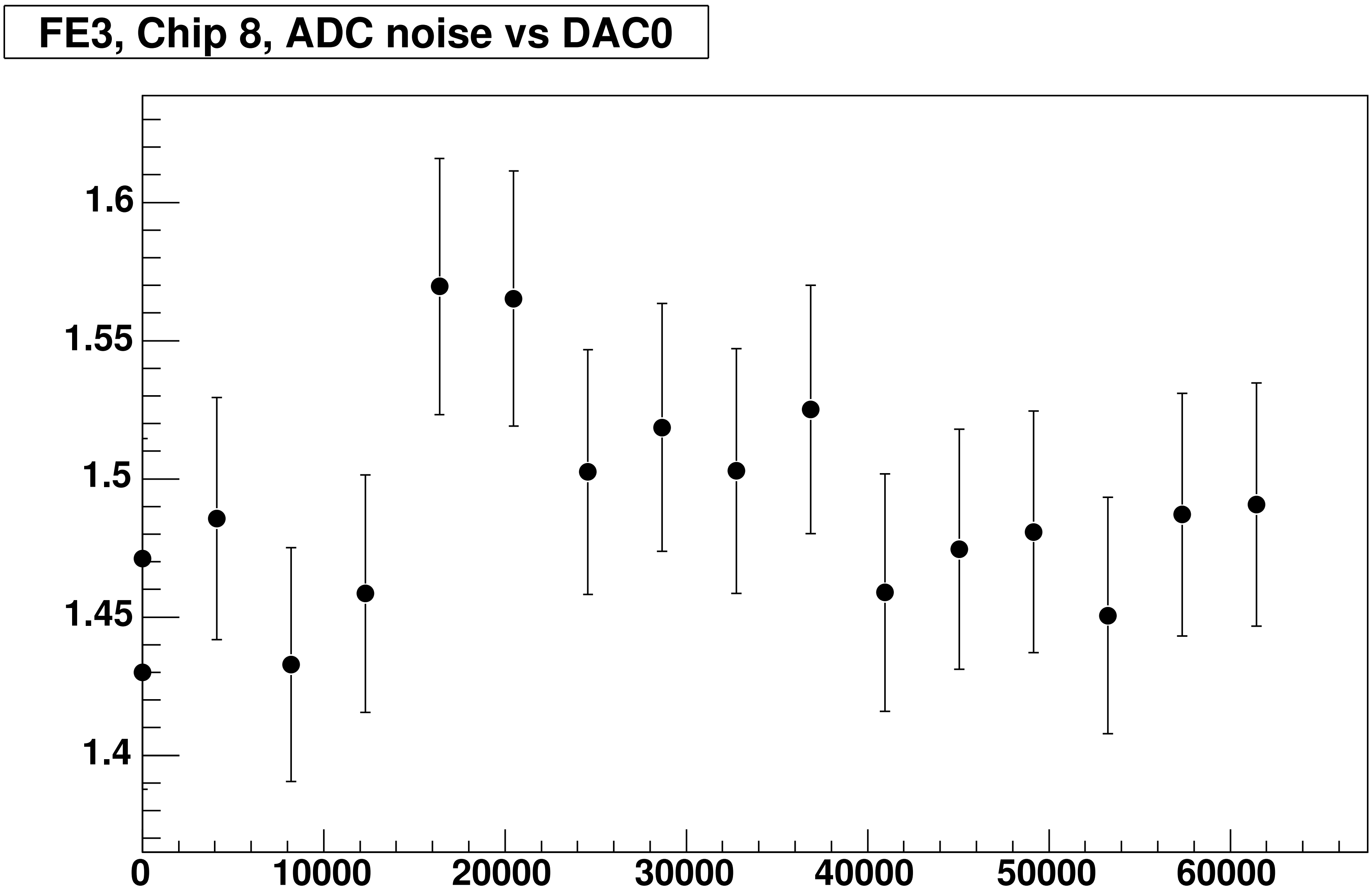

FE3, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

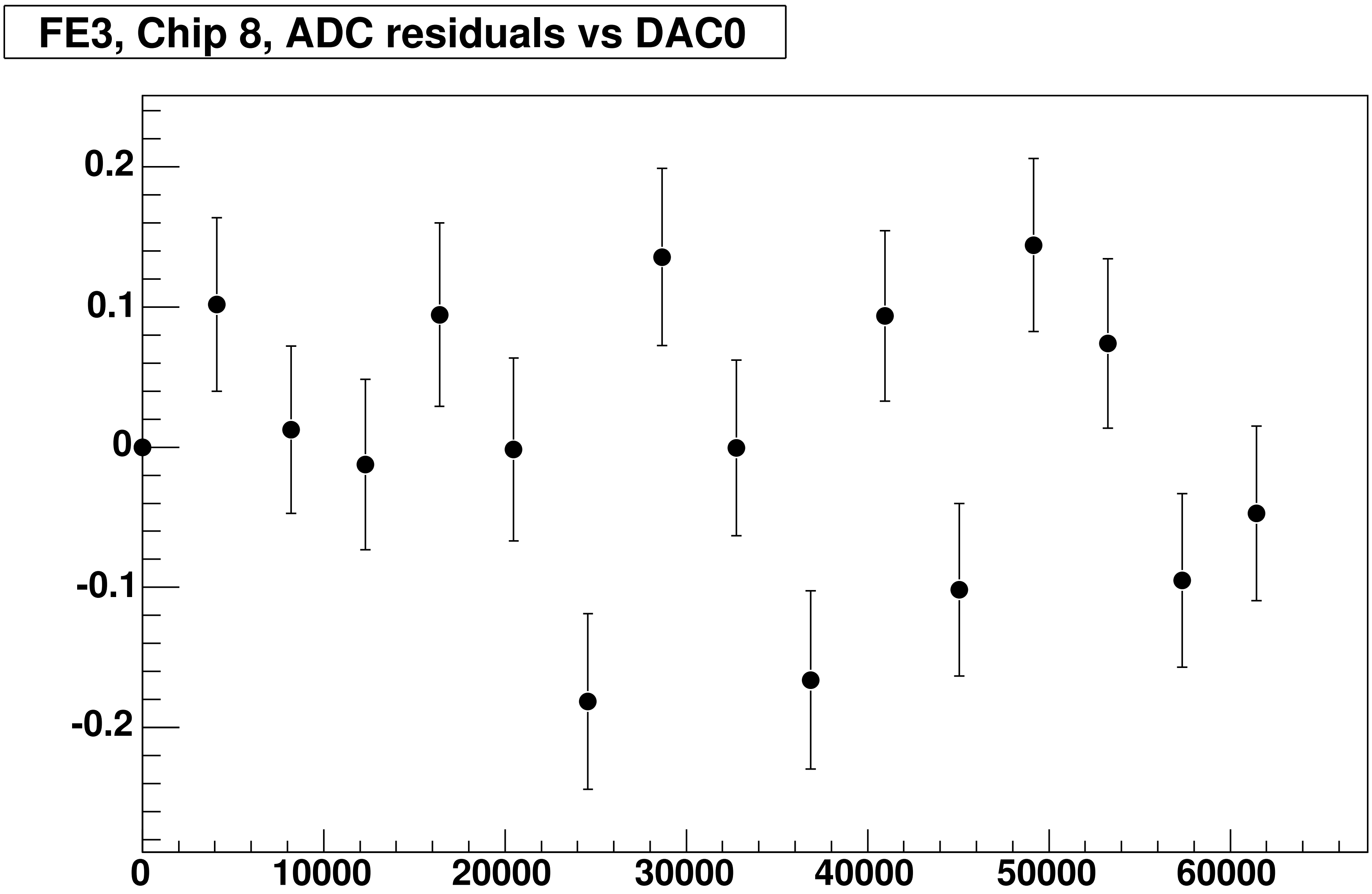

FE3, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1816 / 11
p0 26.6 ± 0.04259
p1 0.4511 ± 1.364e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

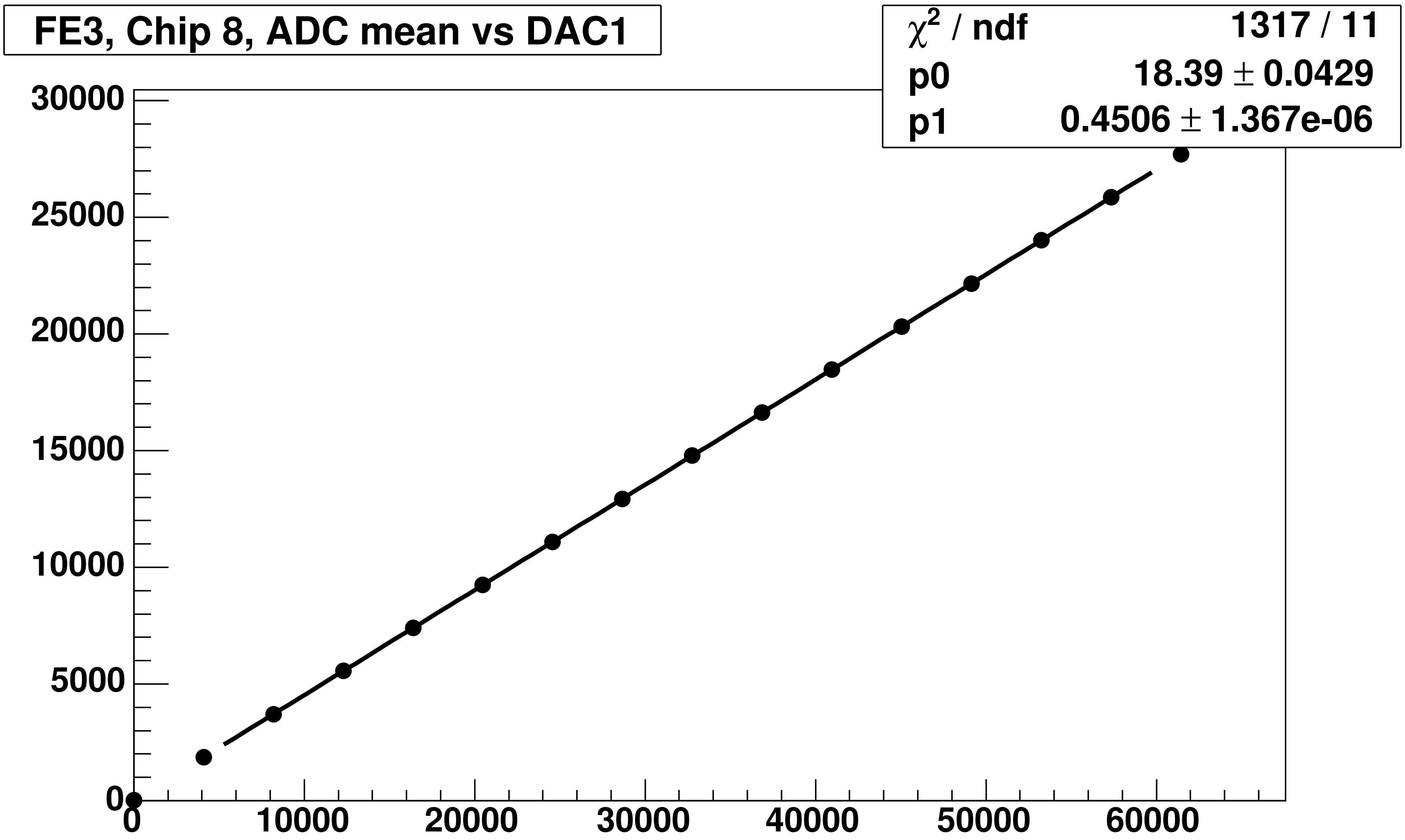

FE3, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE3, Chip 8, ADC mean vs DAC0
χ^2 / ndf 36.41 / 11
p0 15.23 ± 0.0405
p1 4.841e-06 ± 1.113e-06
15.1
15.2
15.3
15.4
15.5
15.6
15.7
0
10000
20000
30000
40000
50000
60000

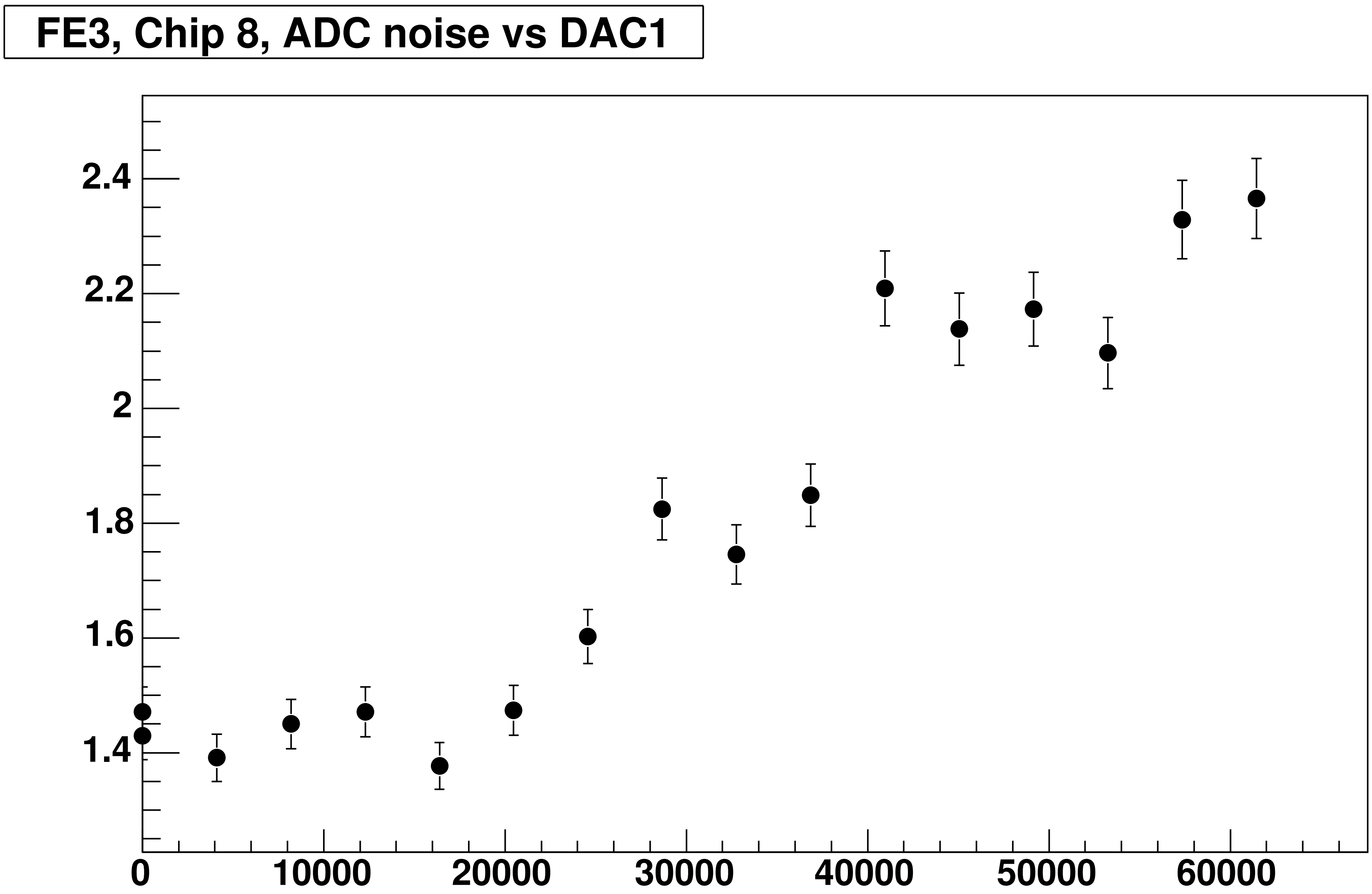

FE3, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

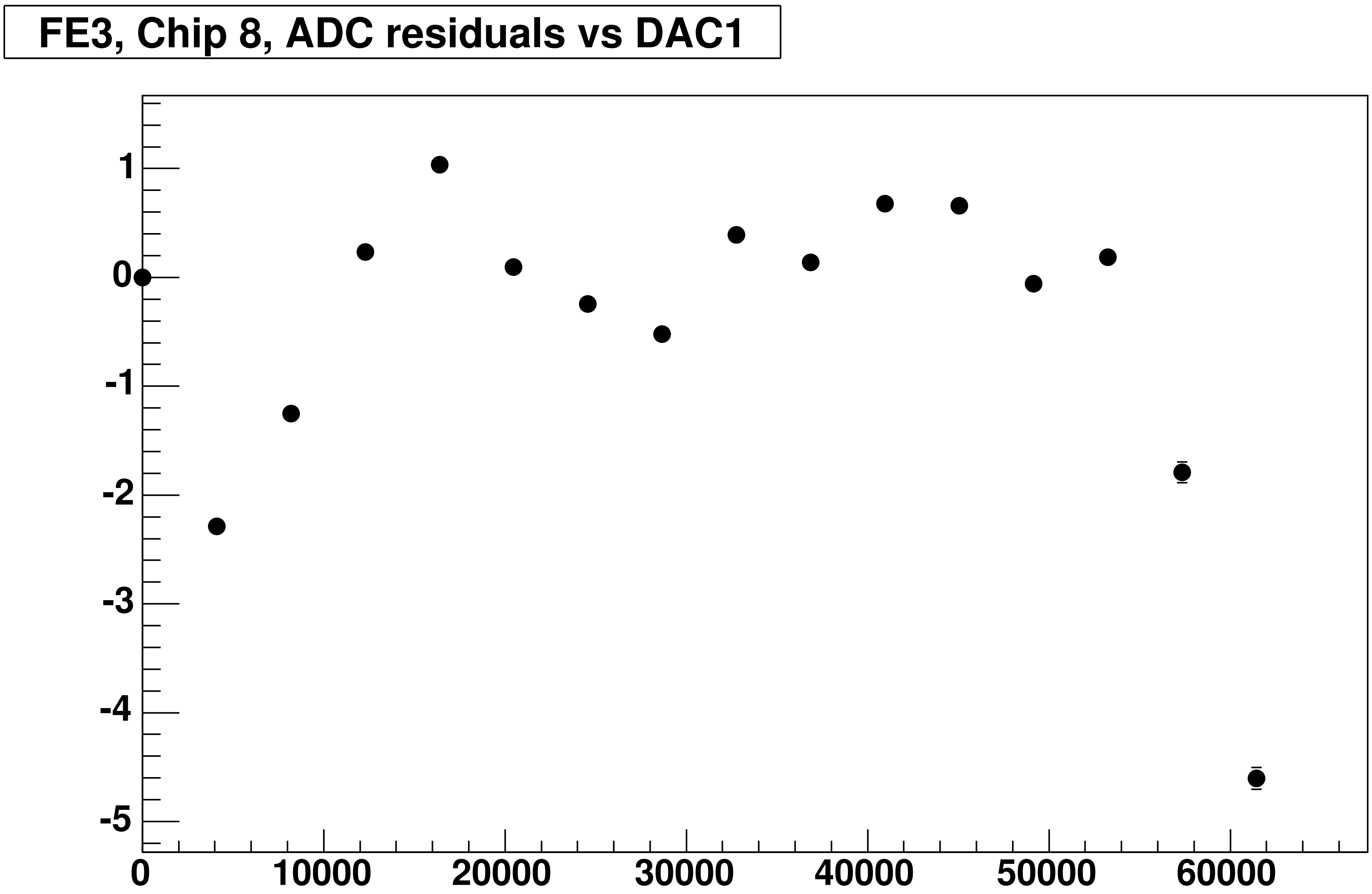


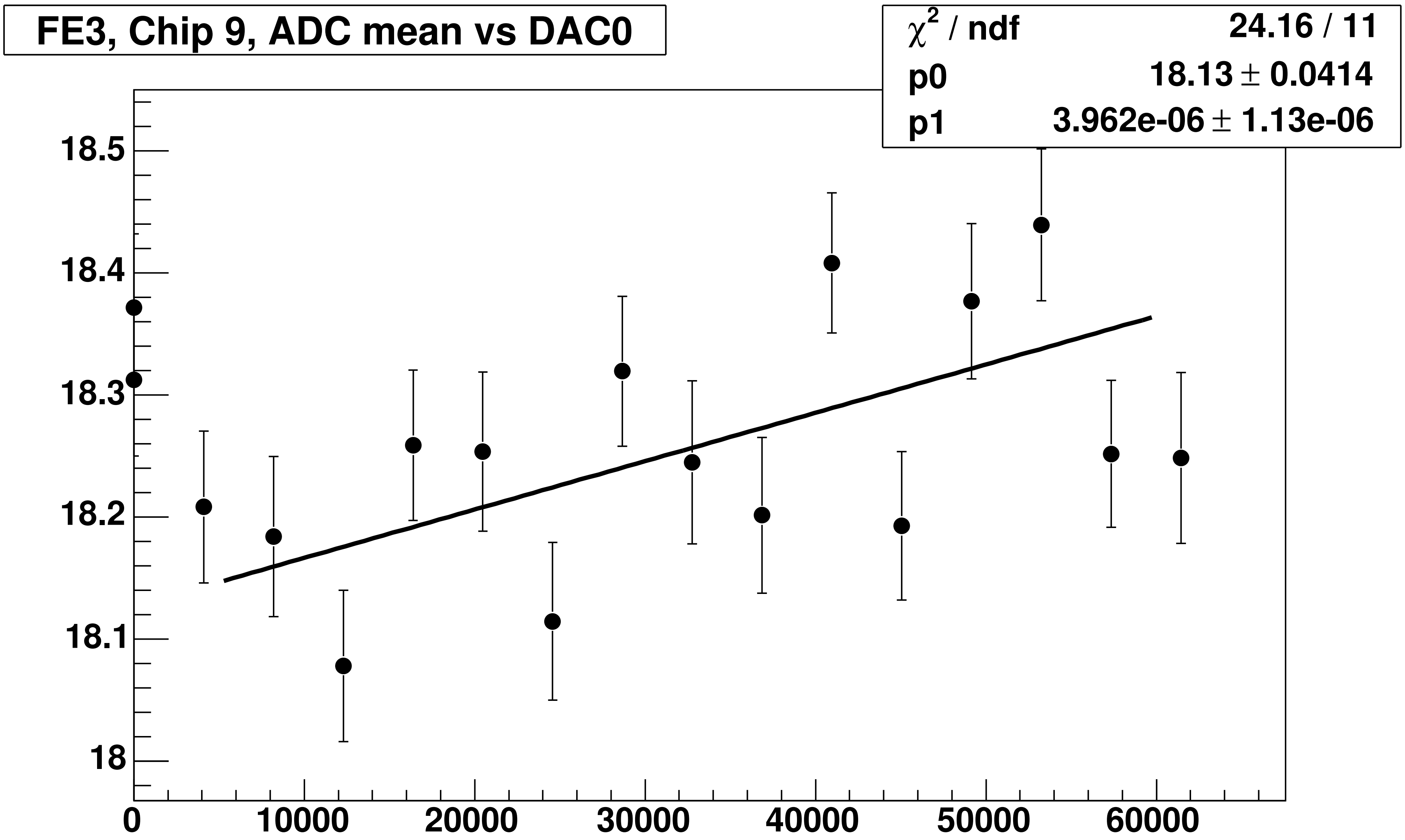
FE3, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



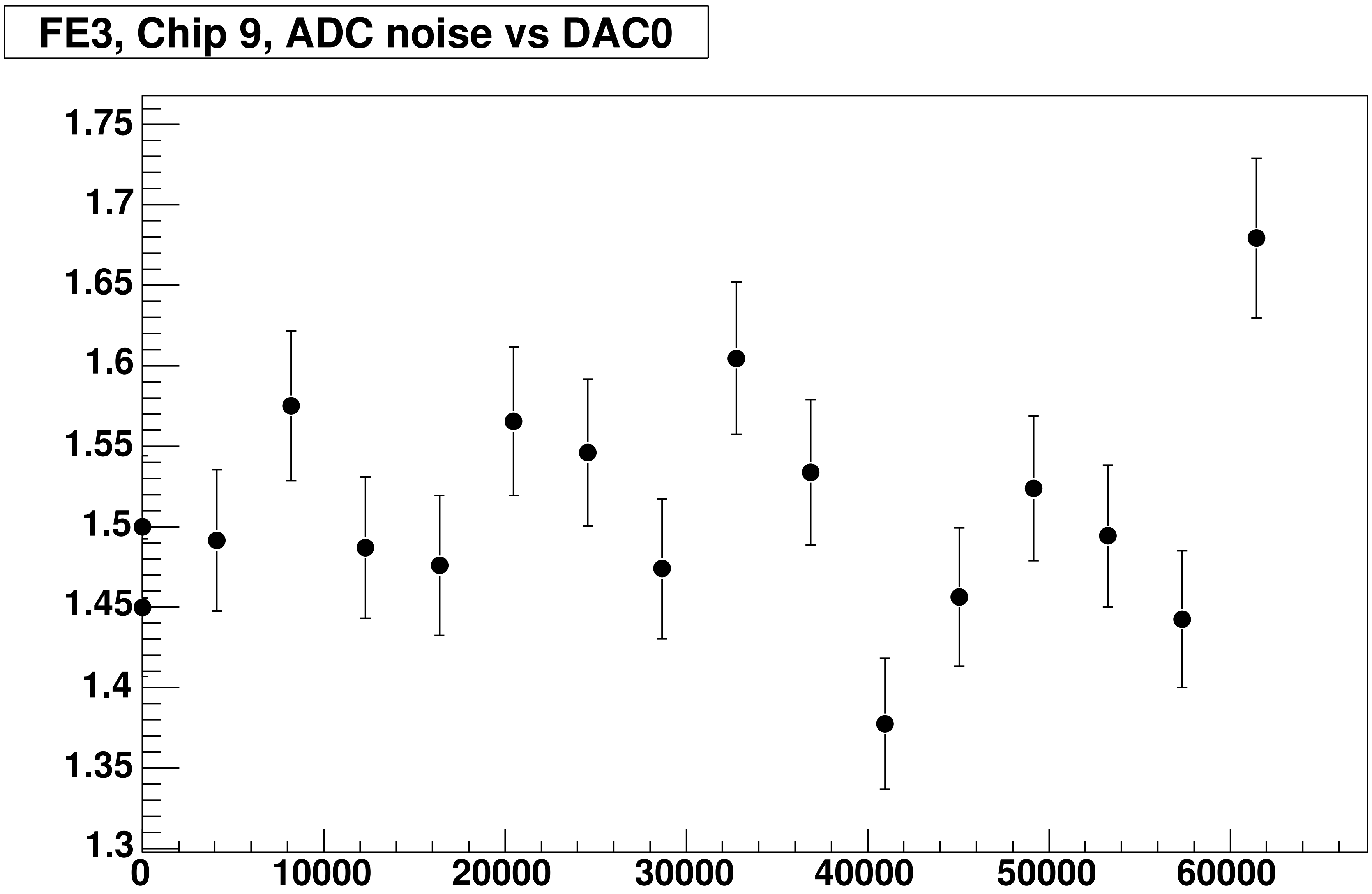
FE3, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1317 / 11
p0 18.39 ± 0.0429
p1 0.4506 ± 1.367e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

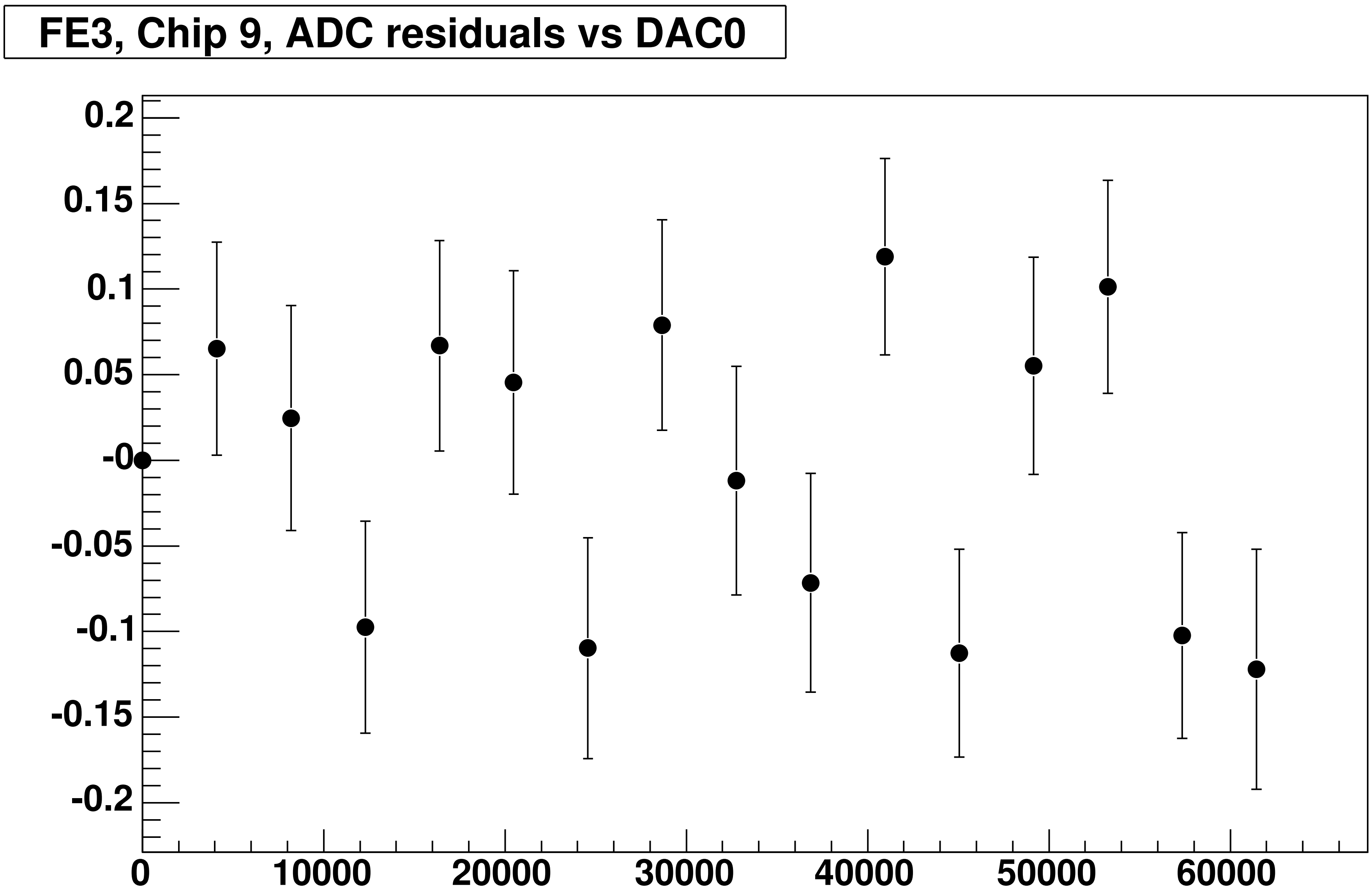

FE3, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

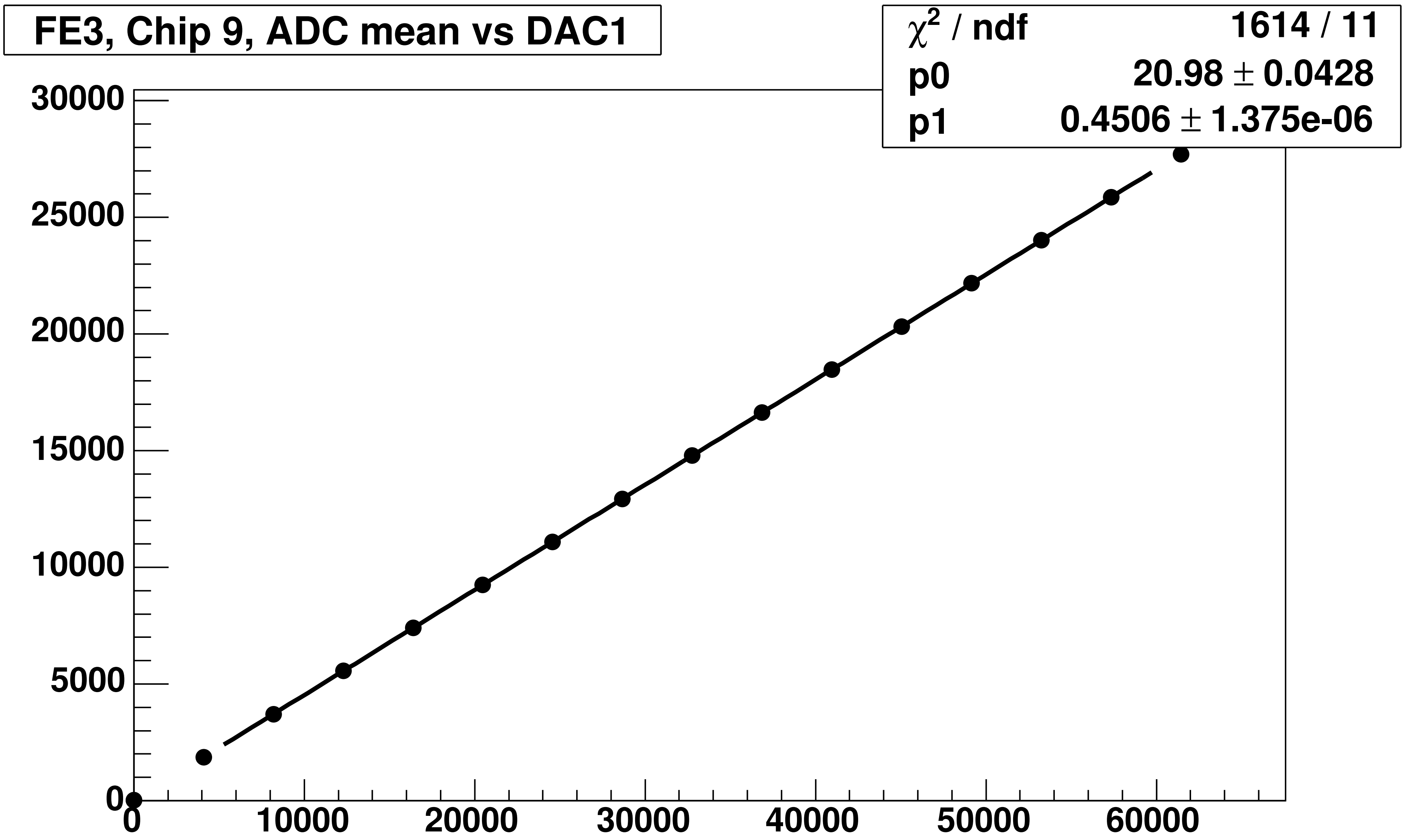

FE3, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



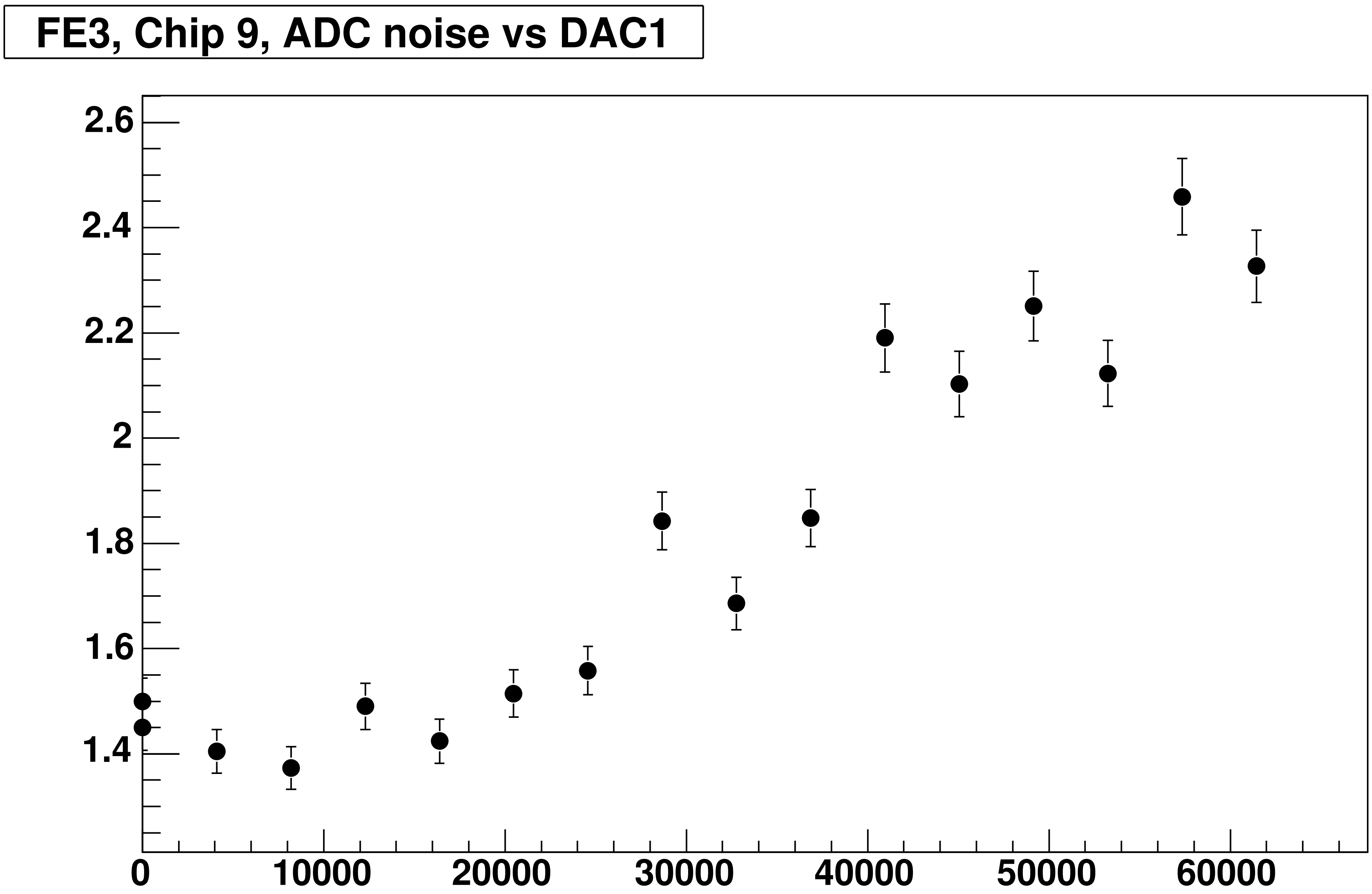
FE3, Chip 9, ADC mean vs DAC0
χ^2 / ndf 24.16 / 11
p0 18.13 ± 0.0414
p1 3.962e-06 ± 1.13e-06
18.5
18.4
18.3
18.2
18.1
18
0
10000
20000
30000
40000
50000
60000

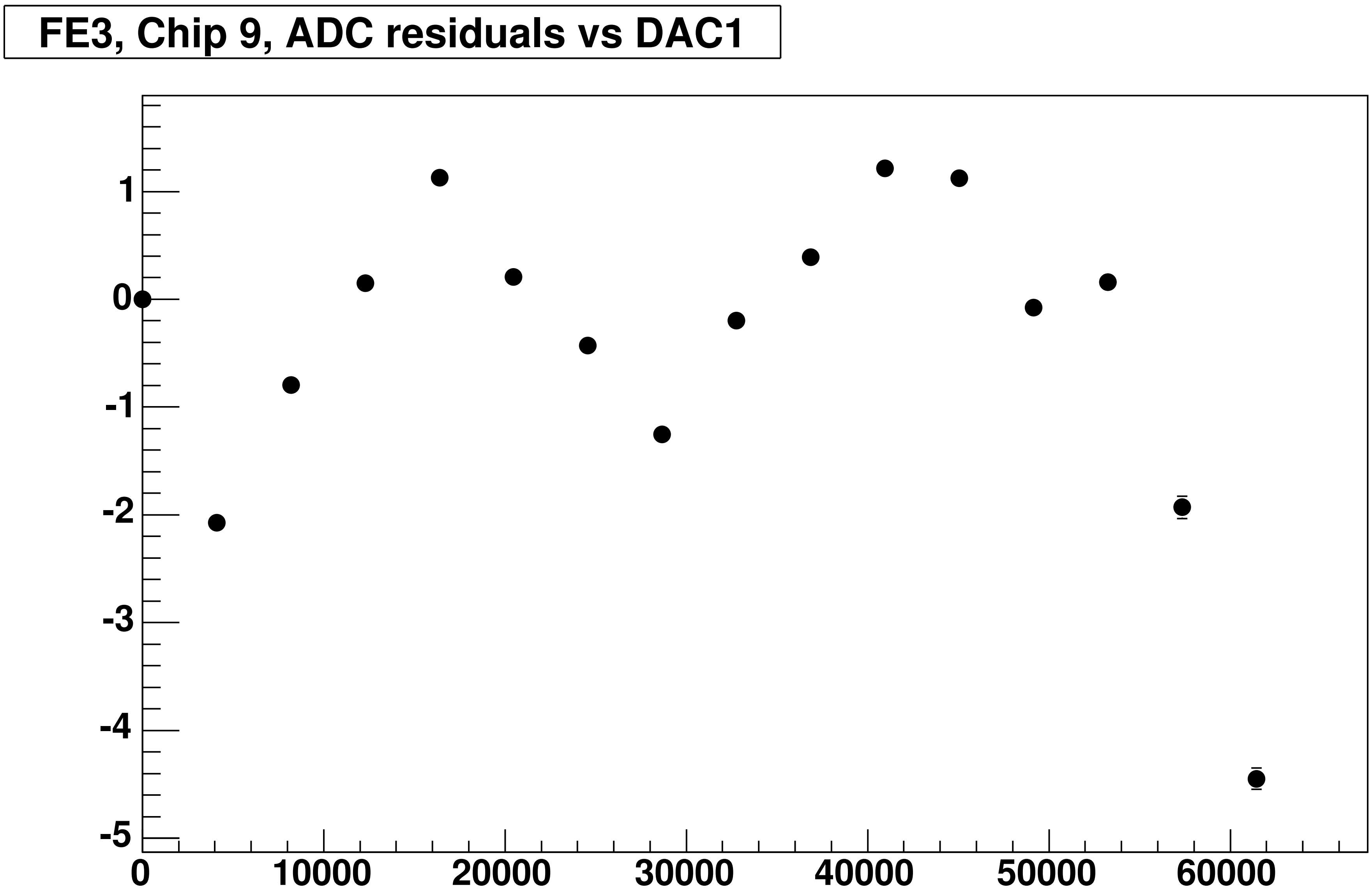

FE3, Chip 9, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


FE3, Chip 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

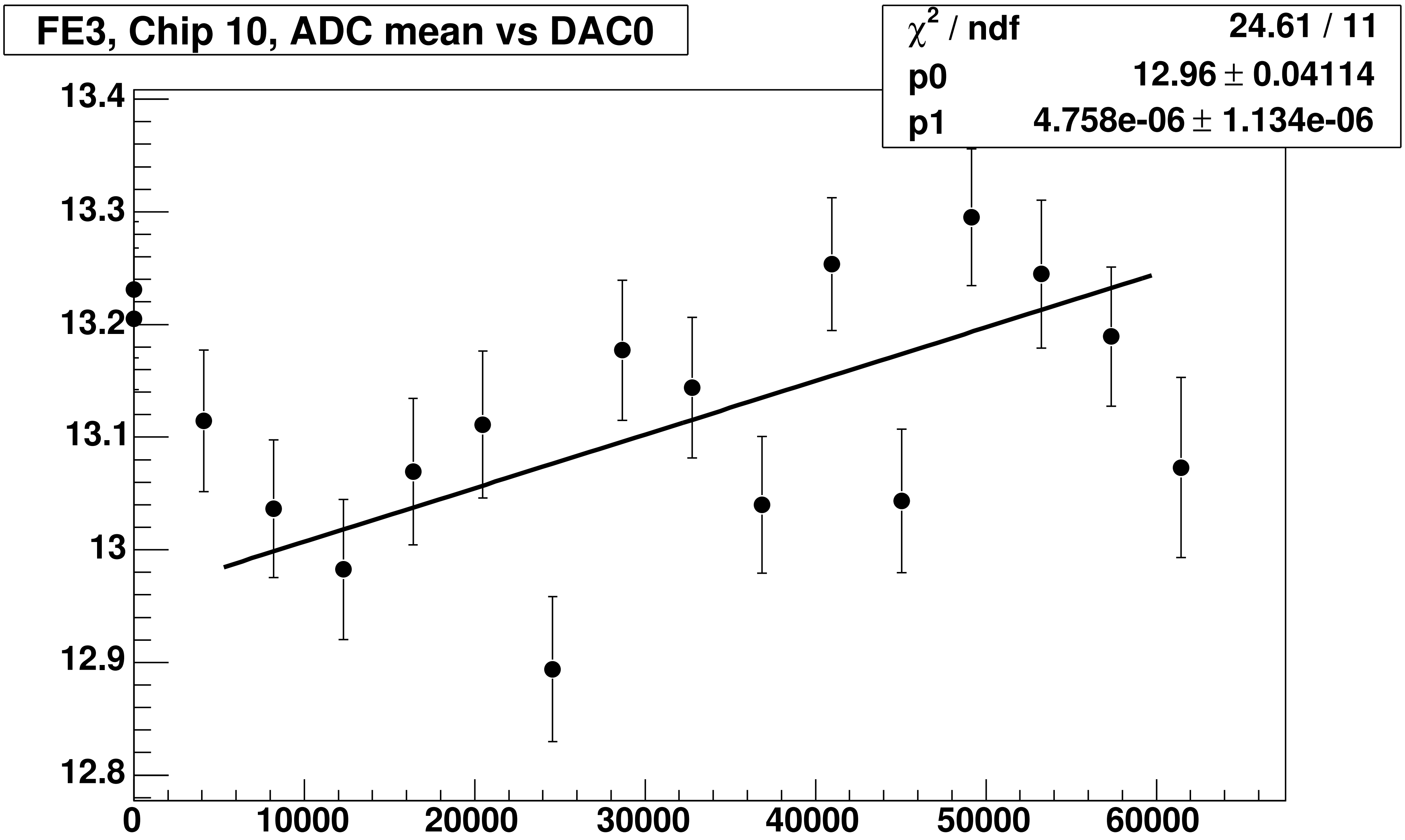


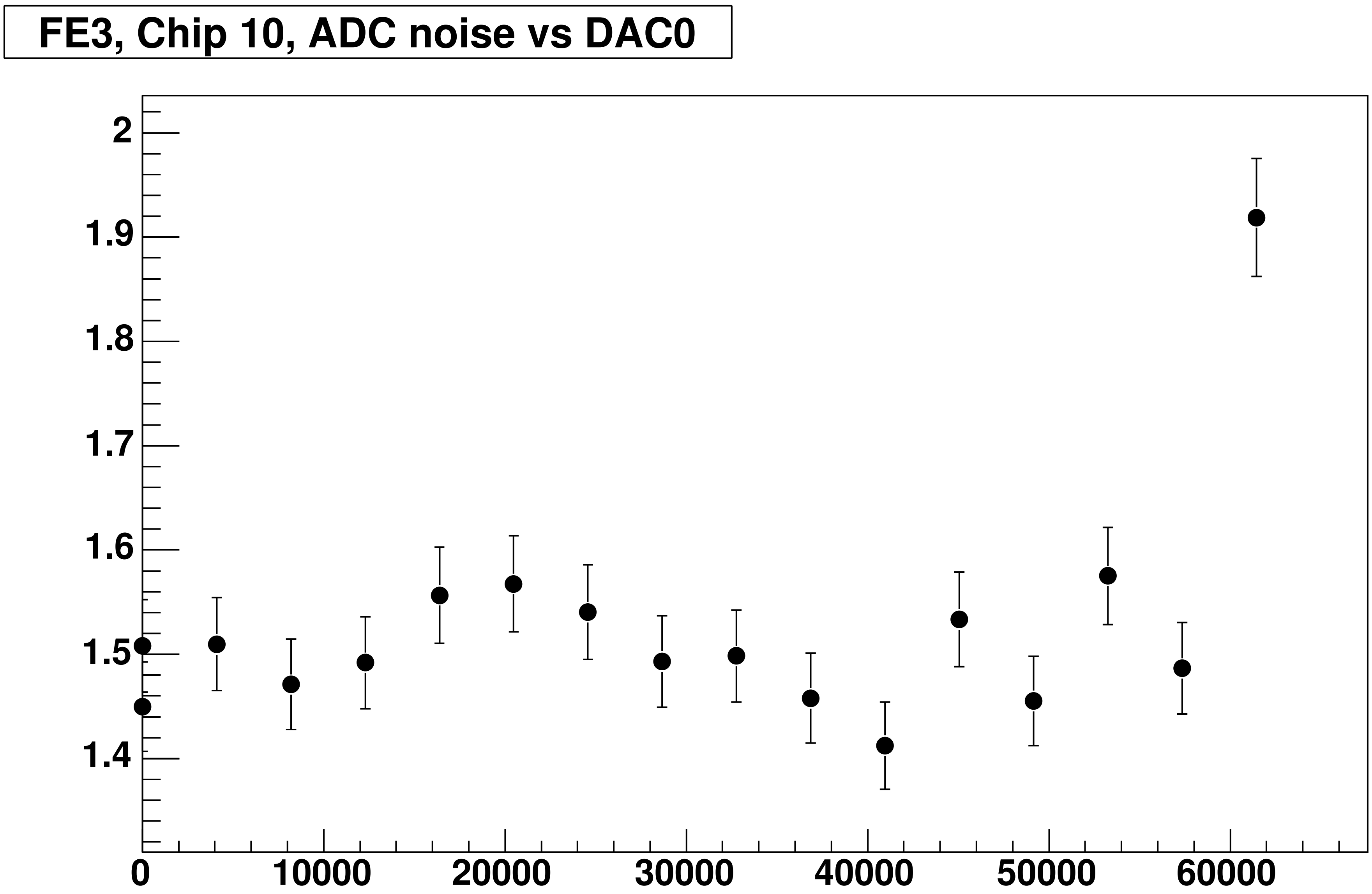
FE3, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1614 / 11
p0 20.98 ± 0.0428
p1 0.4506 ± 1.375e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

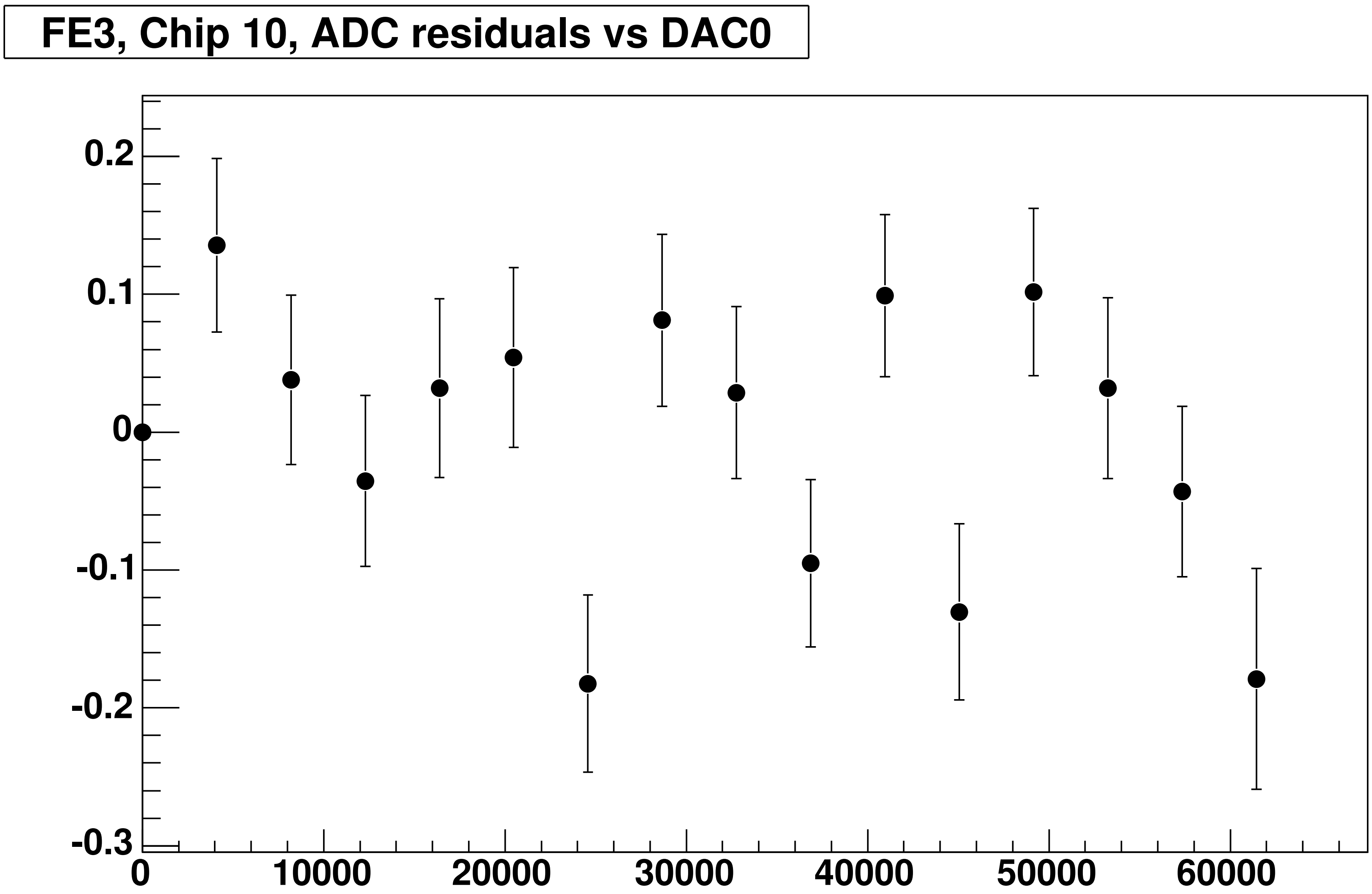

FE3, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



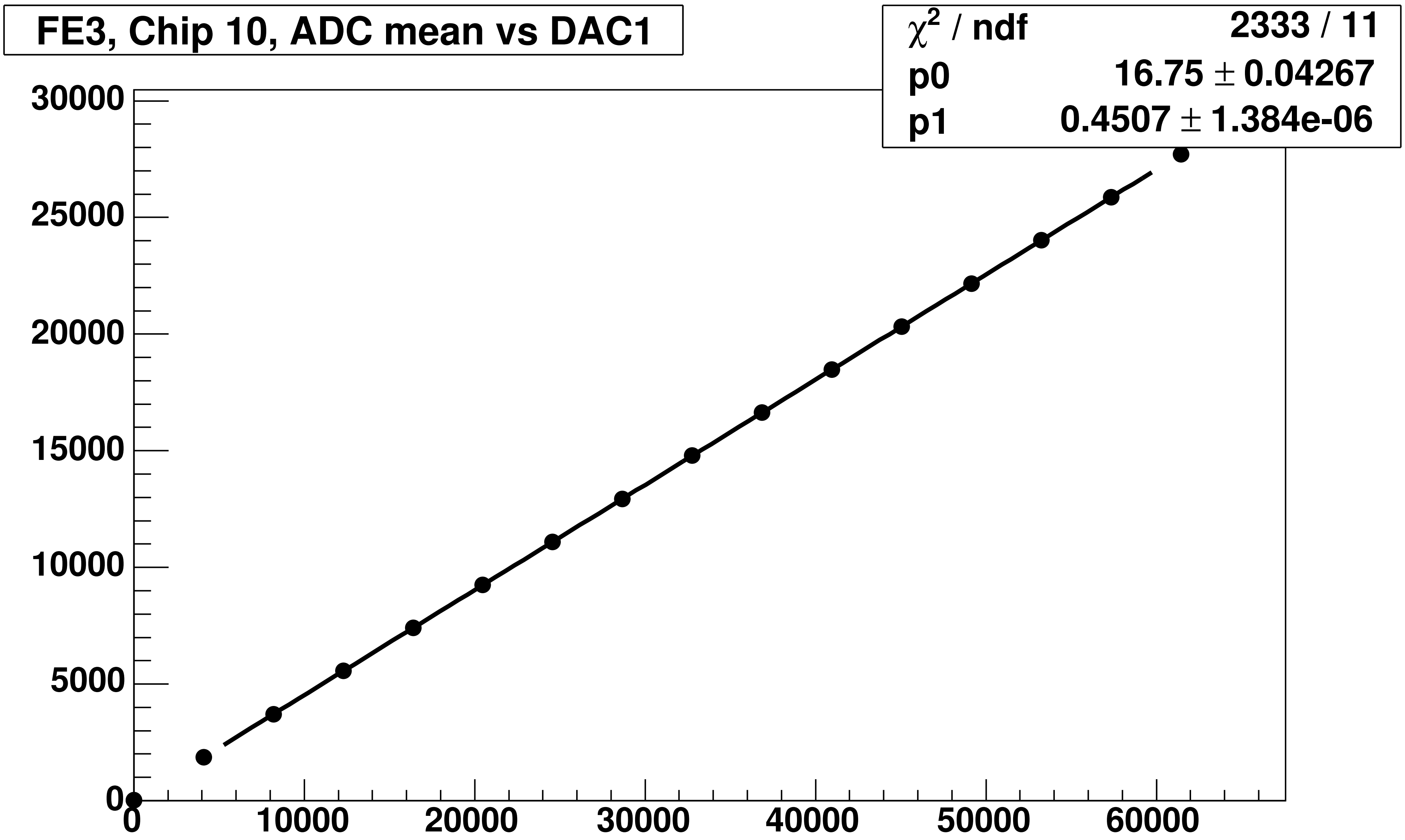
FE3, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

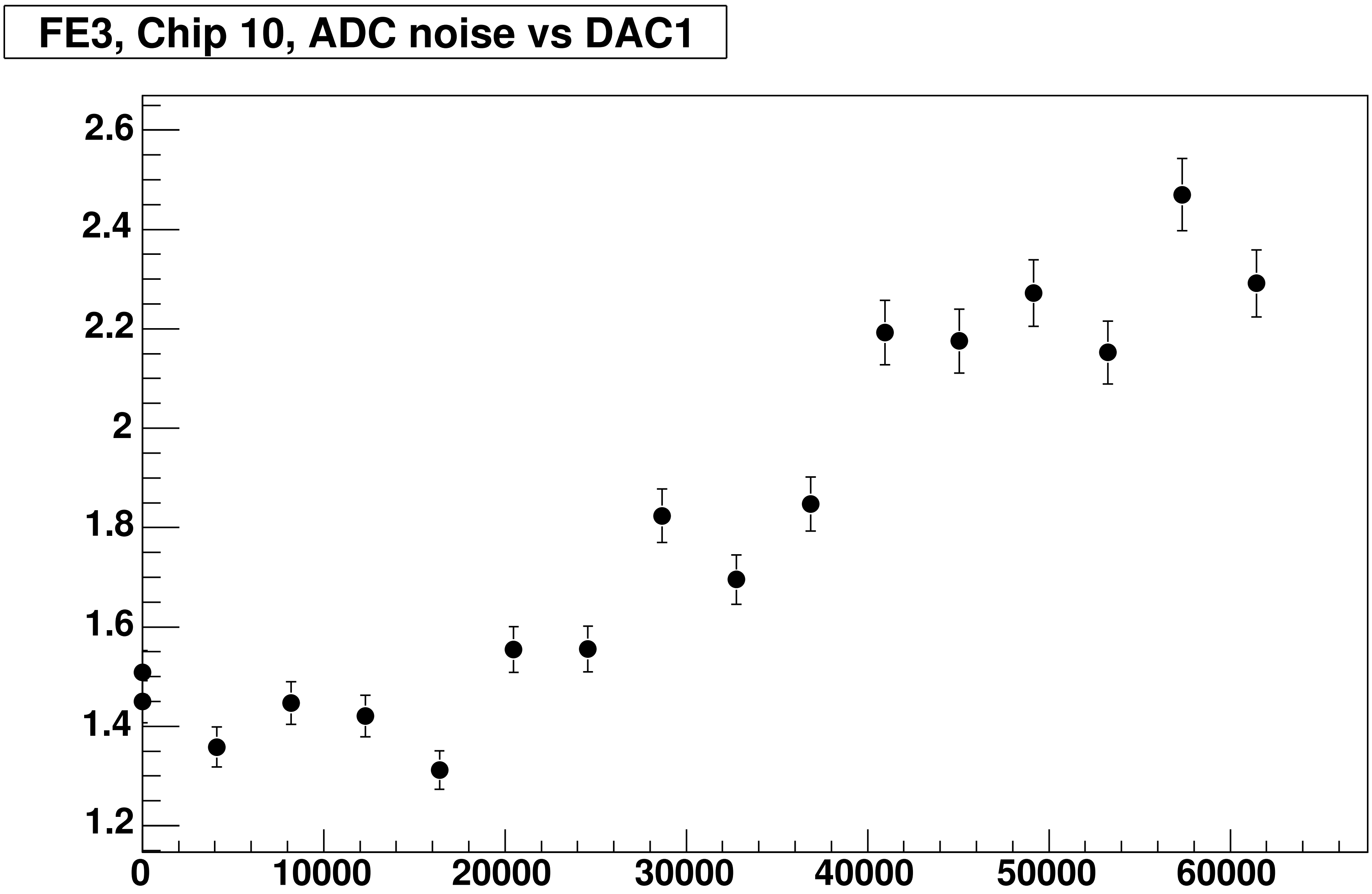

FE3, Chip 10, ADC mean vs DAC0
χ^2 / ndf 24.61 / 11
p0 12.96 ± 0.04114
p1 4.758e-06 ± 1.134e-06
13.4
13.3
13.2
13.1
13
12.9
12.8
0
10000
20000
30000
40000
50000
60000

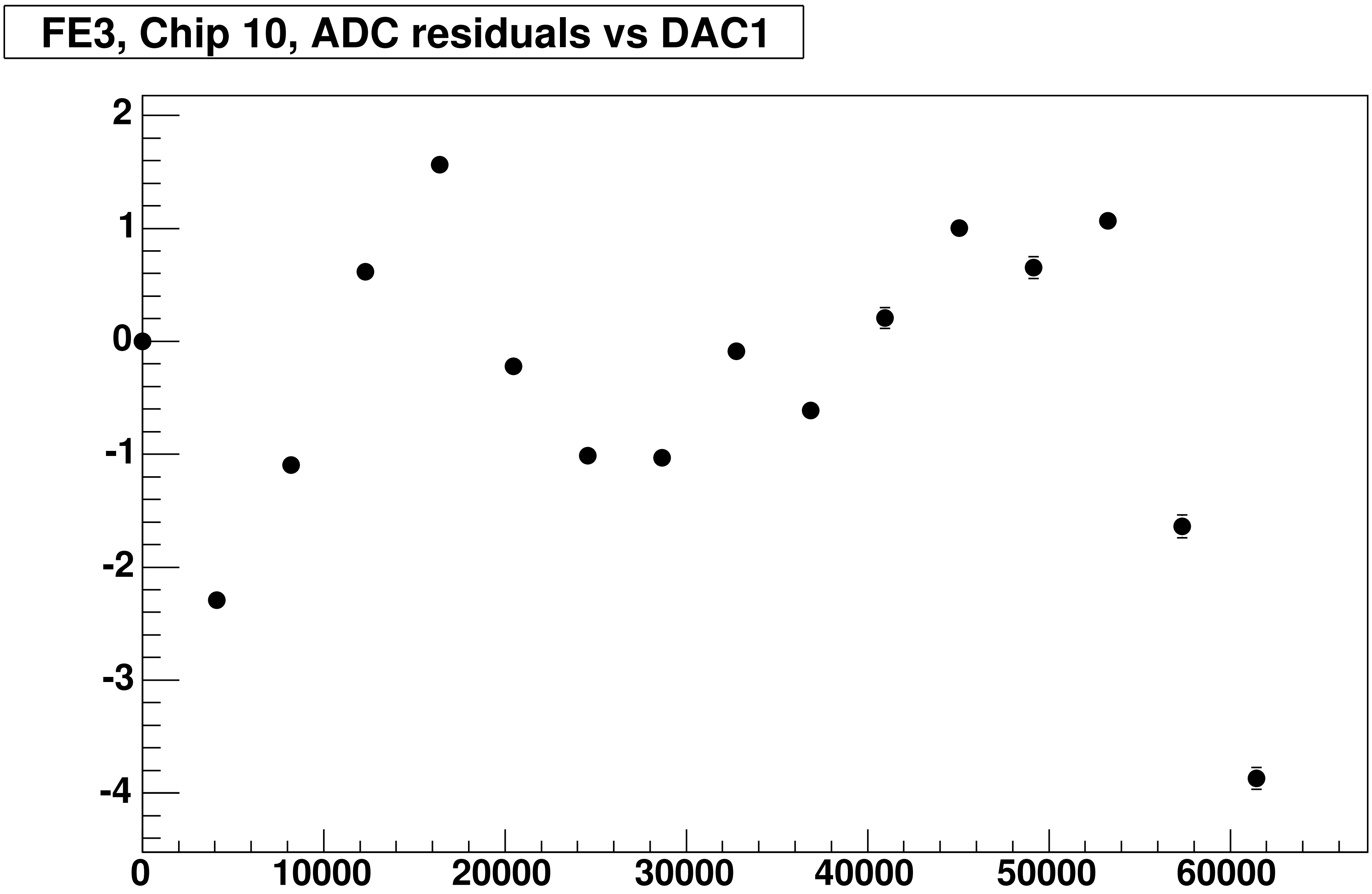

FE3, Chip 10, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000



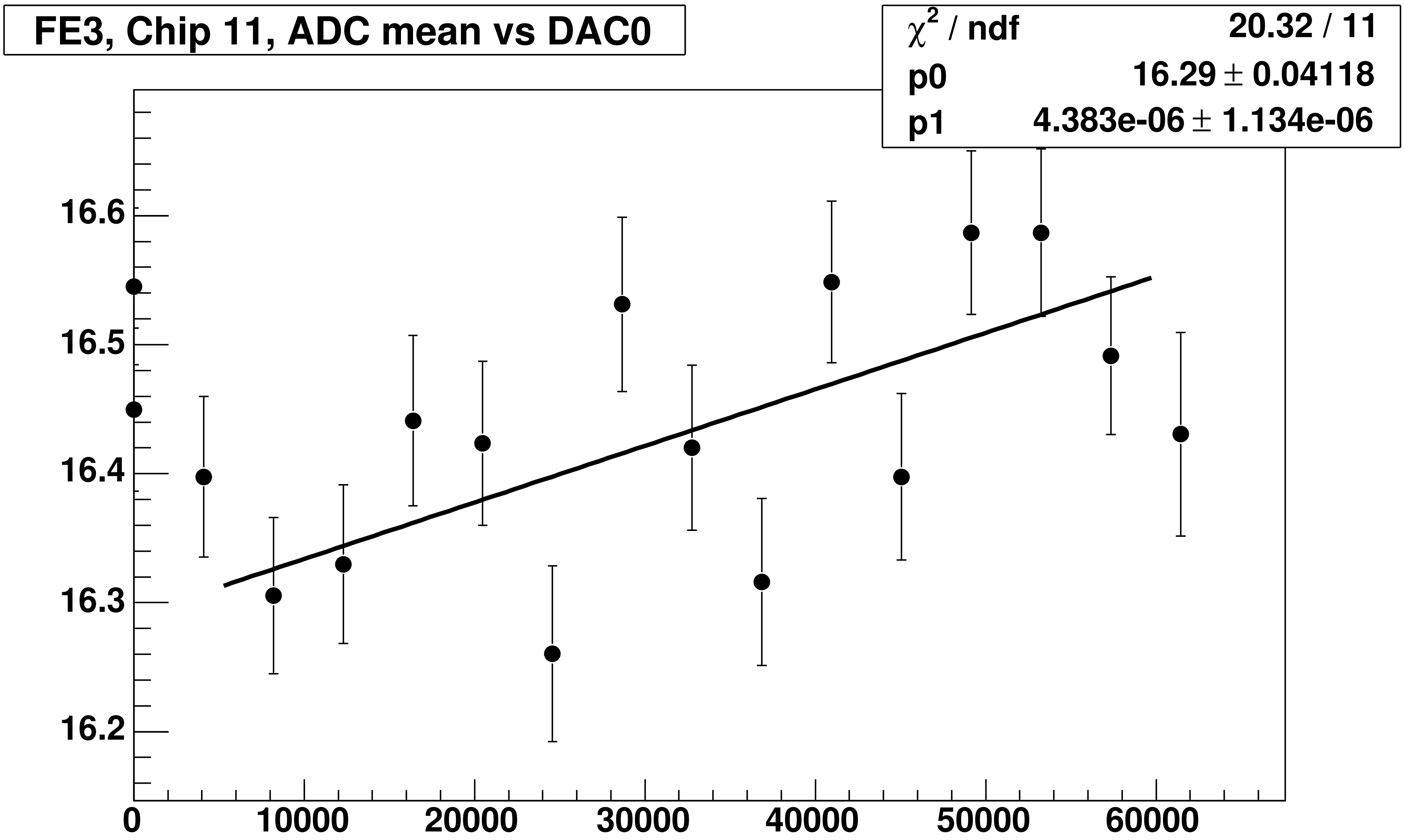
FE3, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE3, Chip 10, ADC mean vs DAC1
χ^2 / ndf 2333 / 11
p0 16.75 ± 0.04267
p1 0.4507 ± 1.384e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

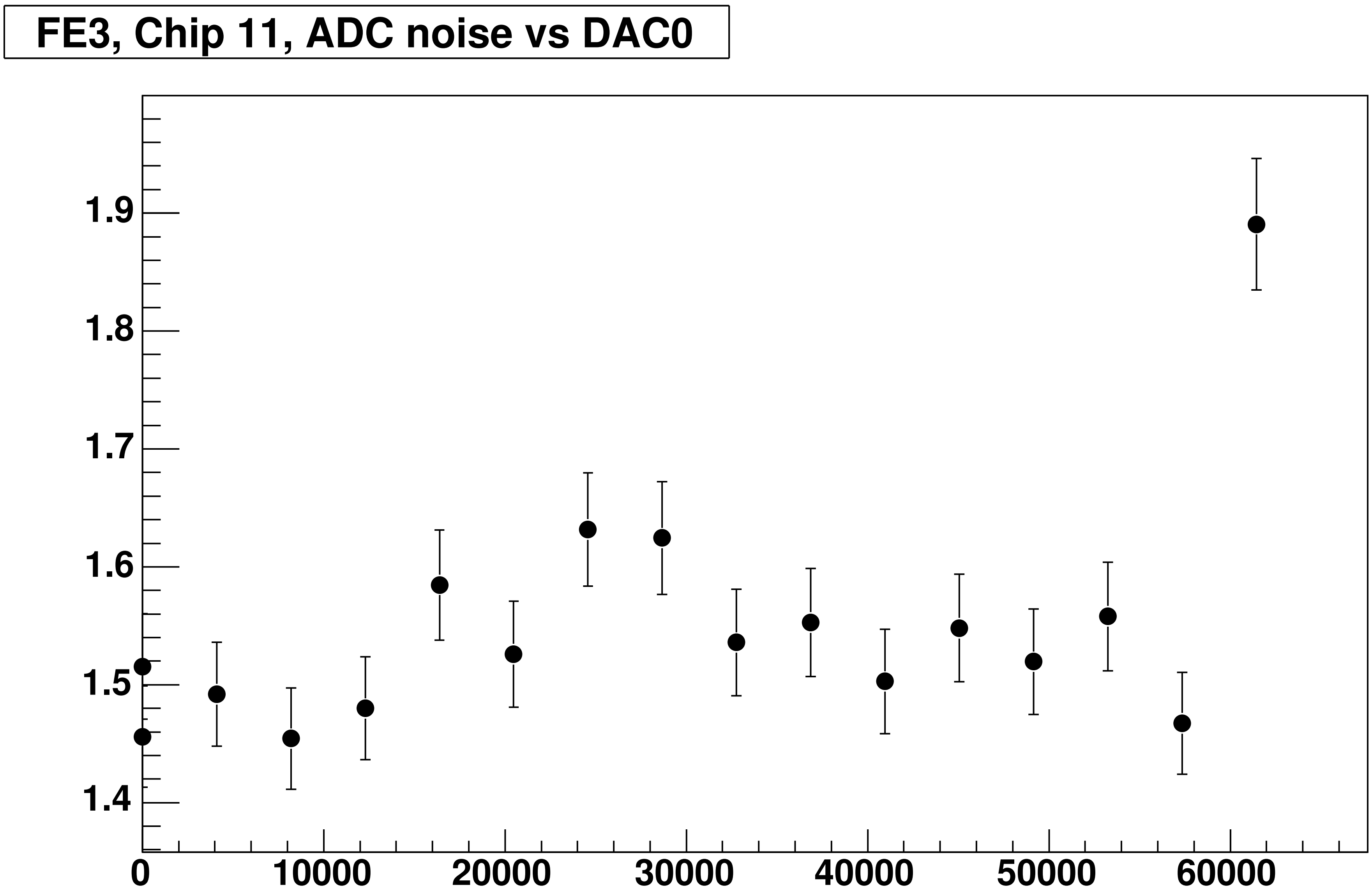

FE3, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

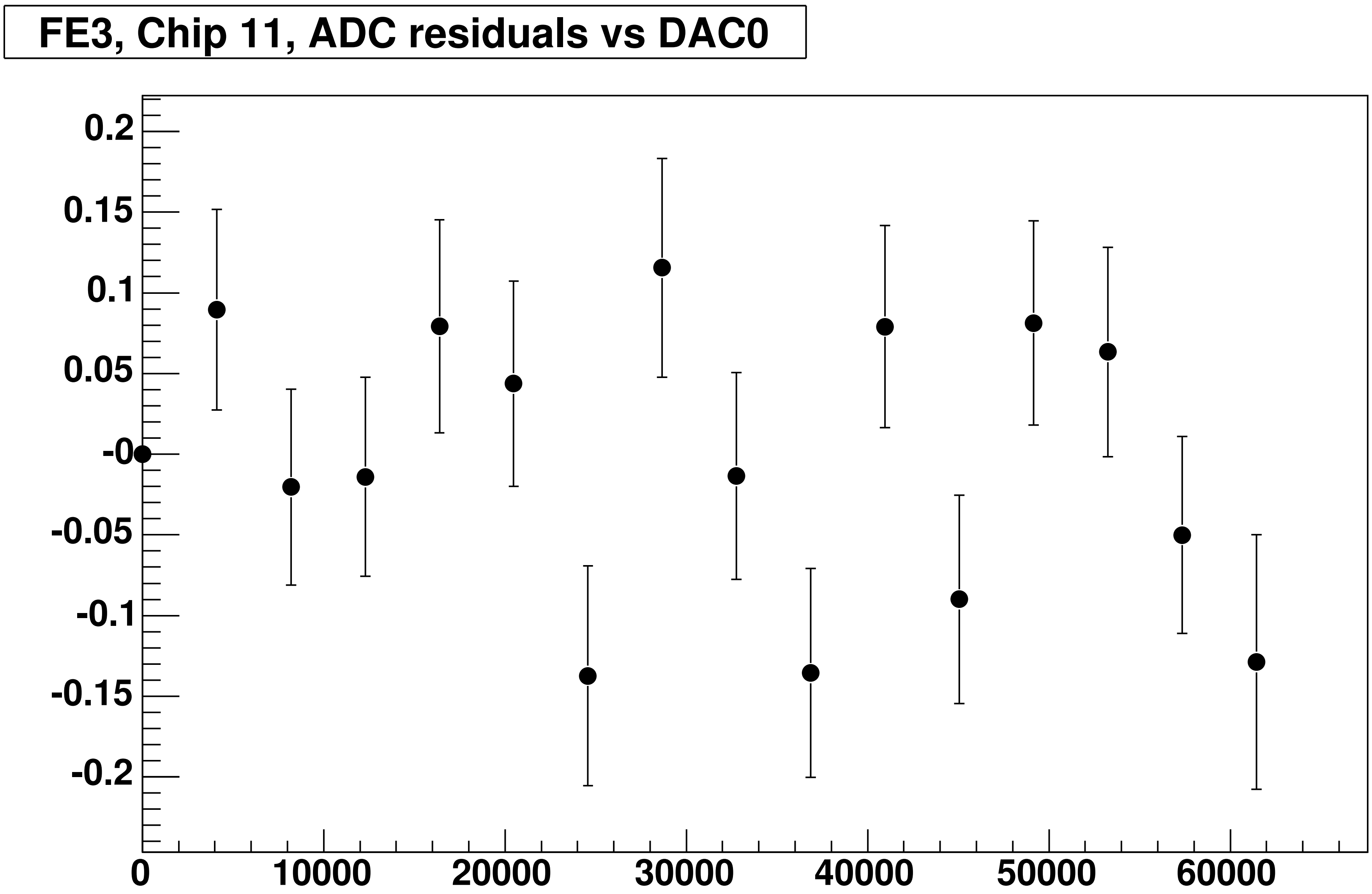


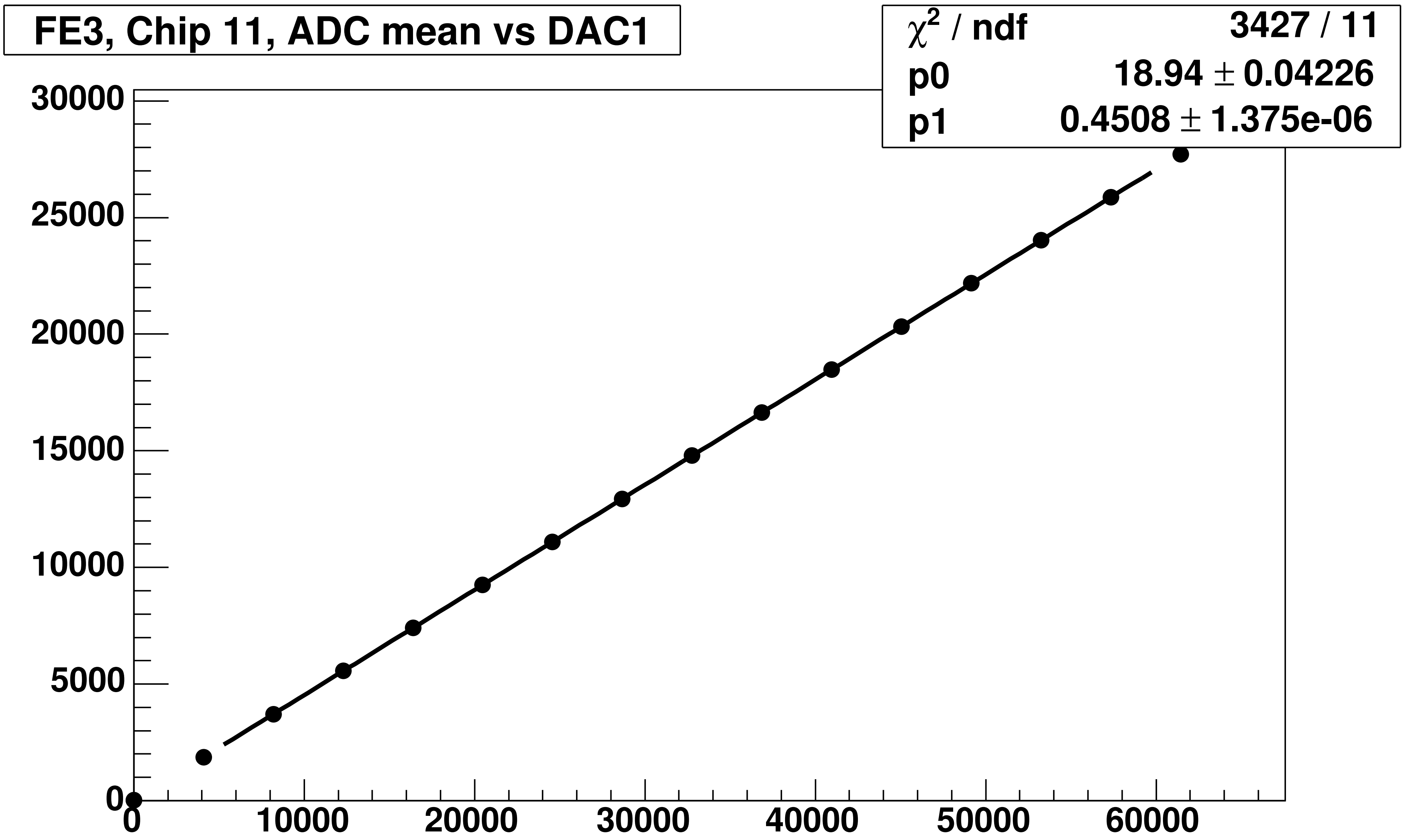
FE3, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



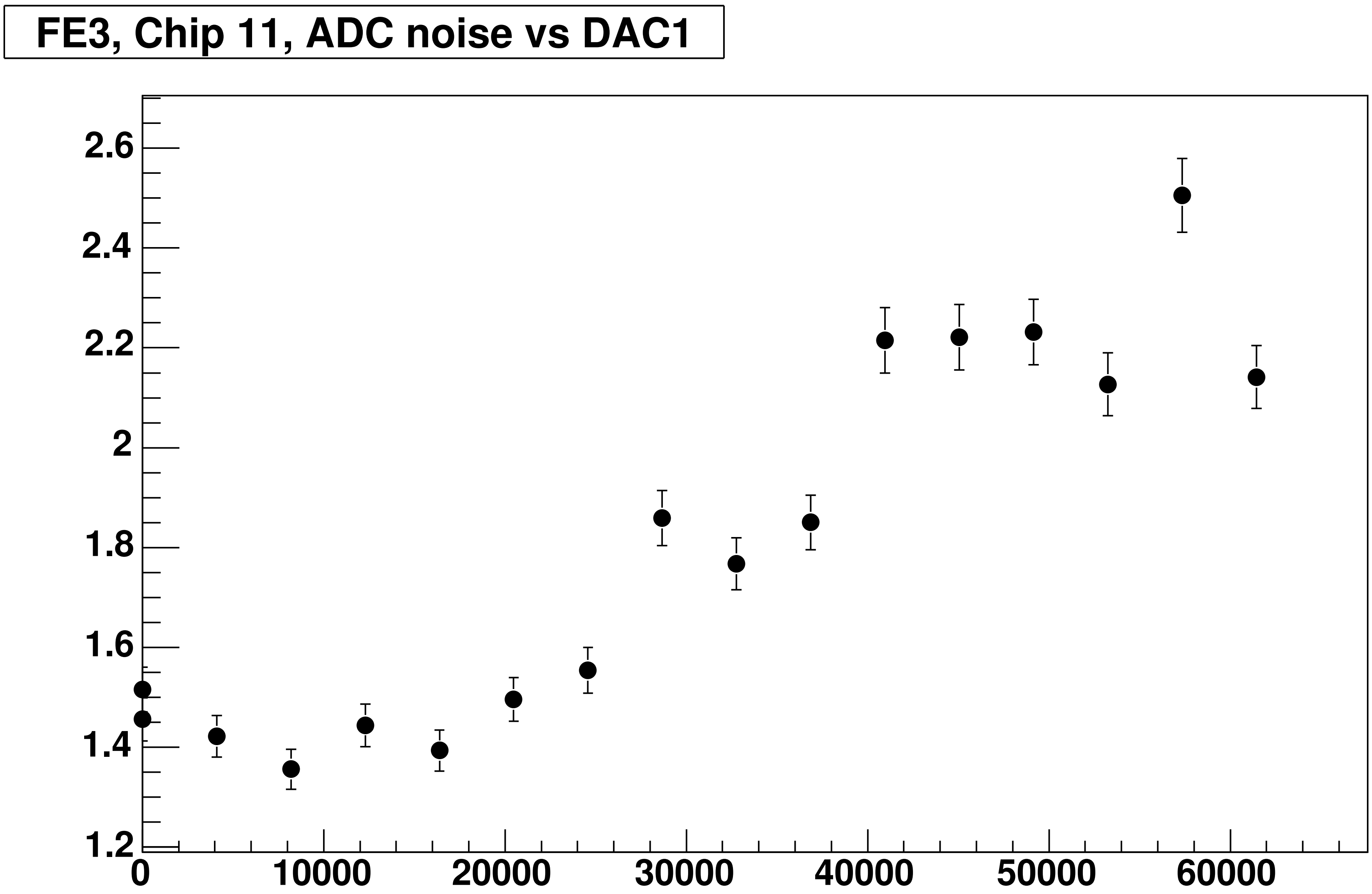
FE3, Chip 11, ADC mean vs DAC0
χ^2 / ndf 20.32 / 11
p0 16.29 ± 0.04118
p1 4.383e-06 ± 1.134e-06
16.2
16.3
16.4
16.5
16.6
0
10000
20000
30000
40000
50000
60000

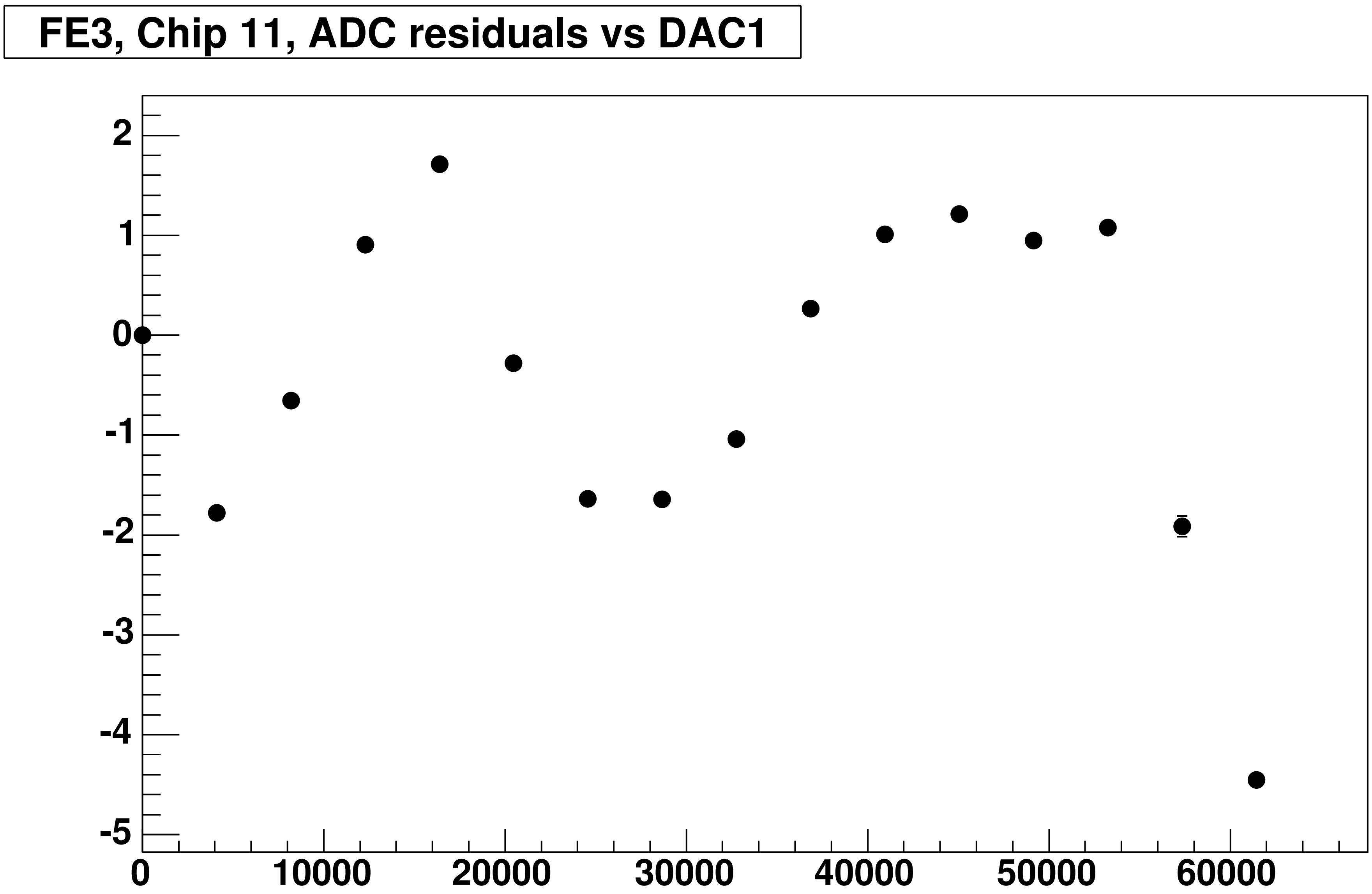

FE3, Chip 11, ADC noise vs DAC0
1.4
1.5
1.6
1.7
1.8
1.9
0
10000
20000
30000
40000
50000
60000

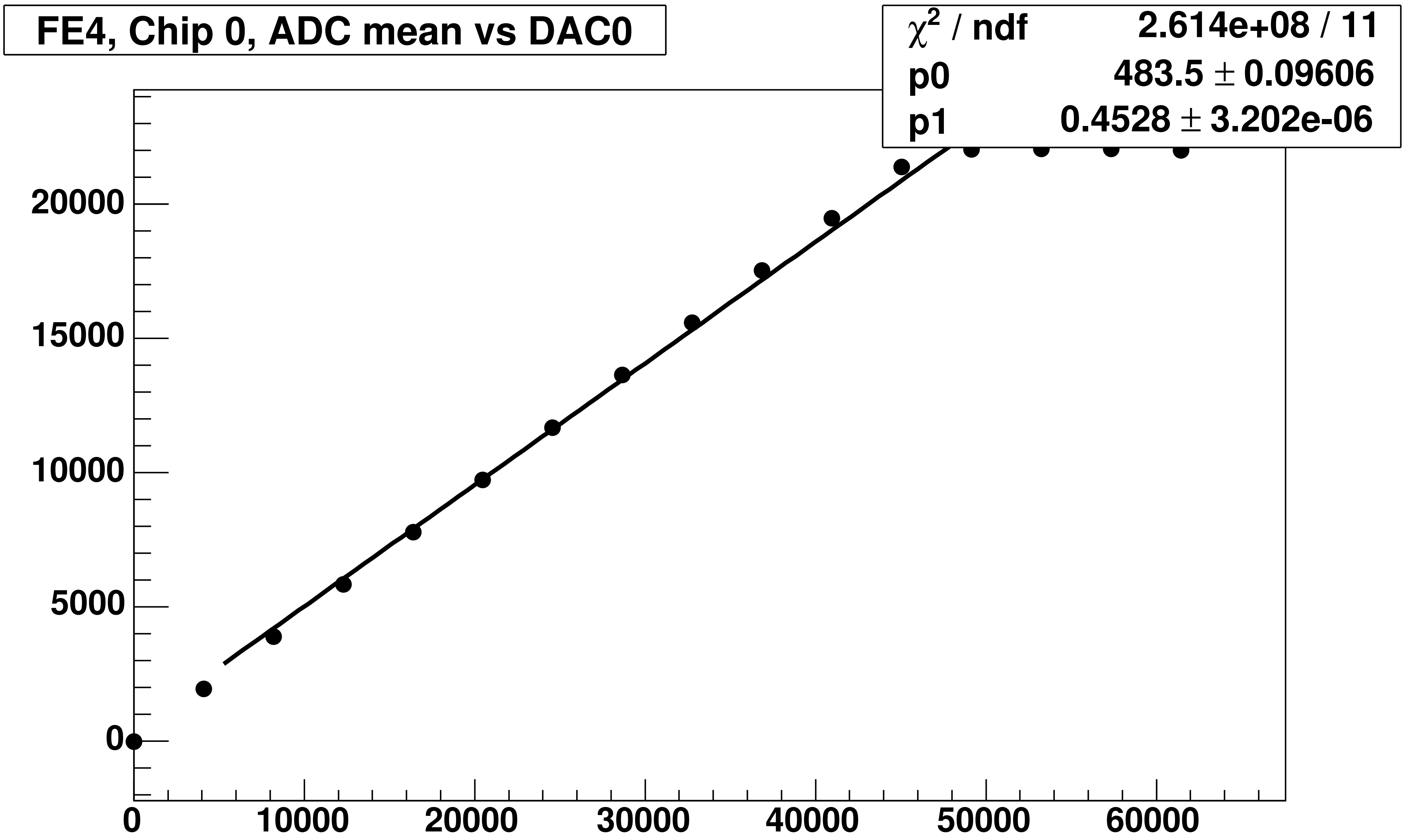

FE3, Chip 11, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



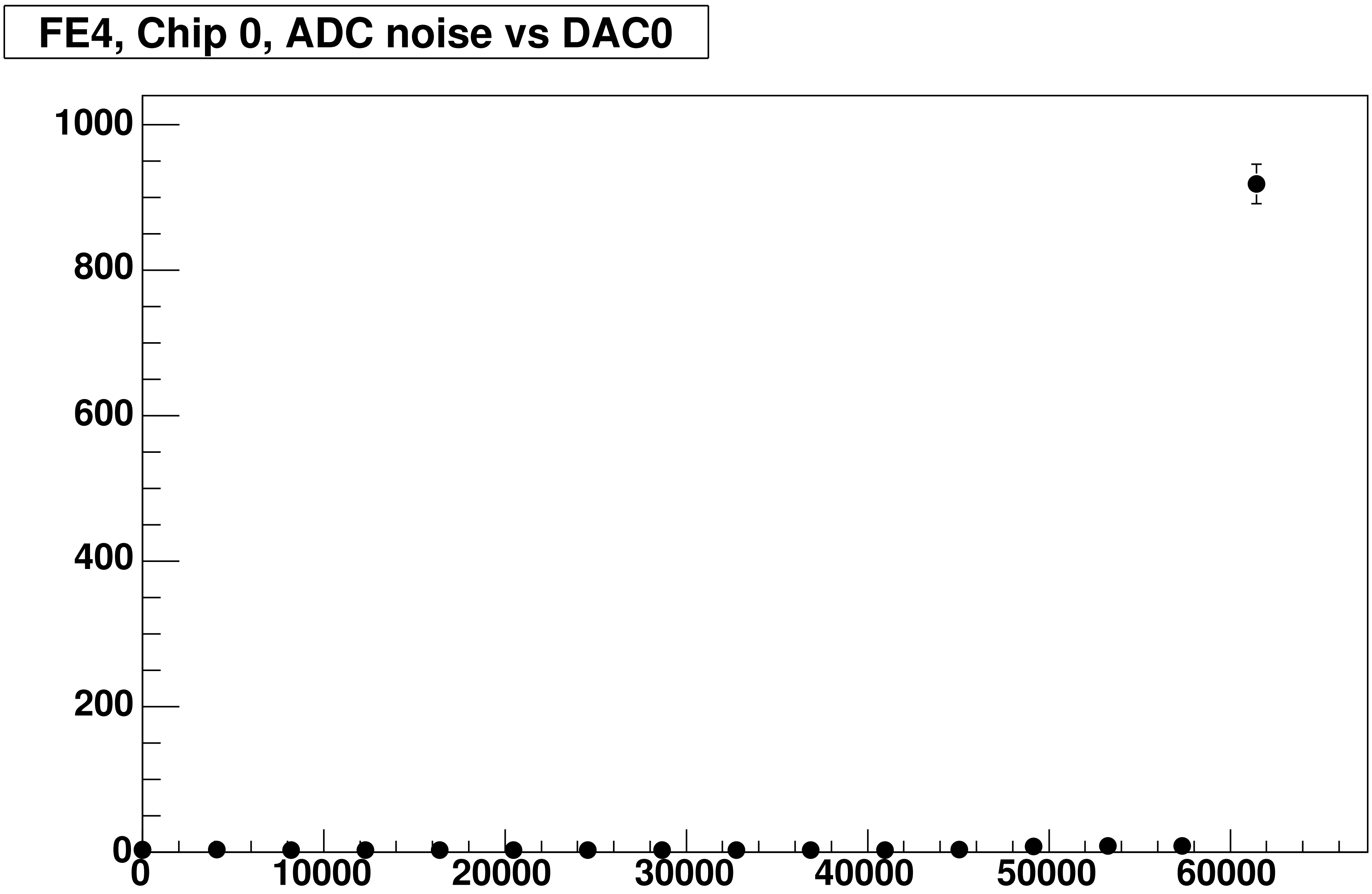
FE3, Chip 11, ADC mean vs DAC1
χ^2 / ndf 3427 / 11
p0 18.94 ± 0.04226
p1 0.4508 ± 1.375e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

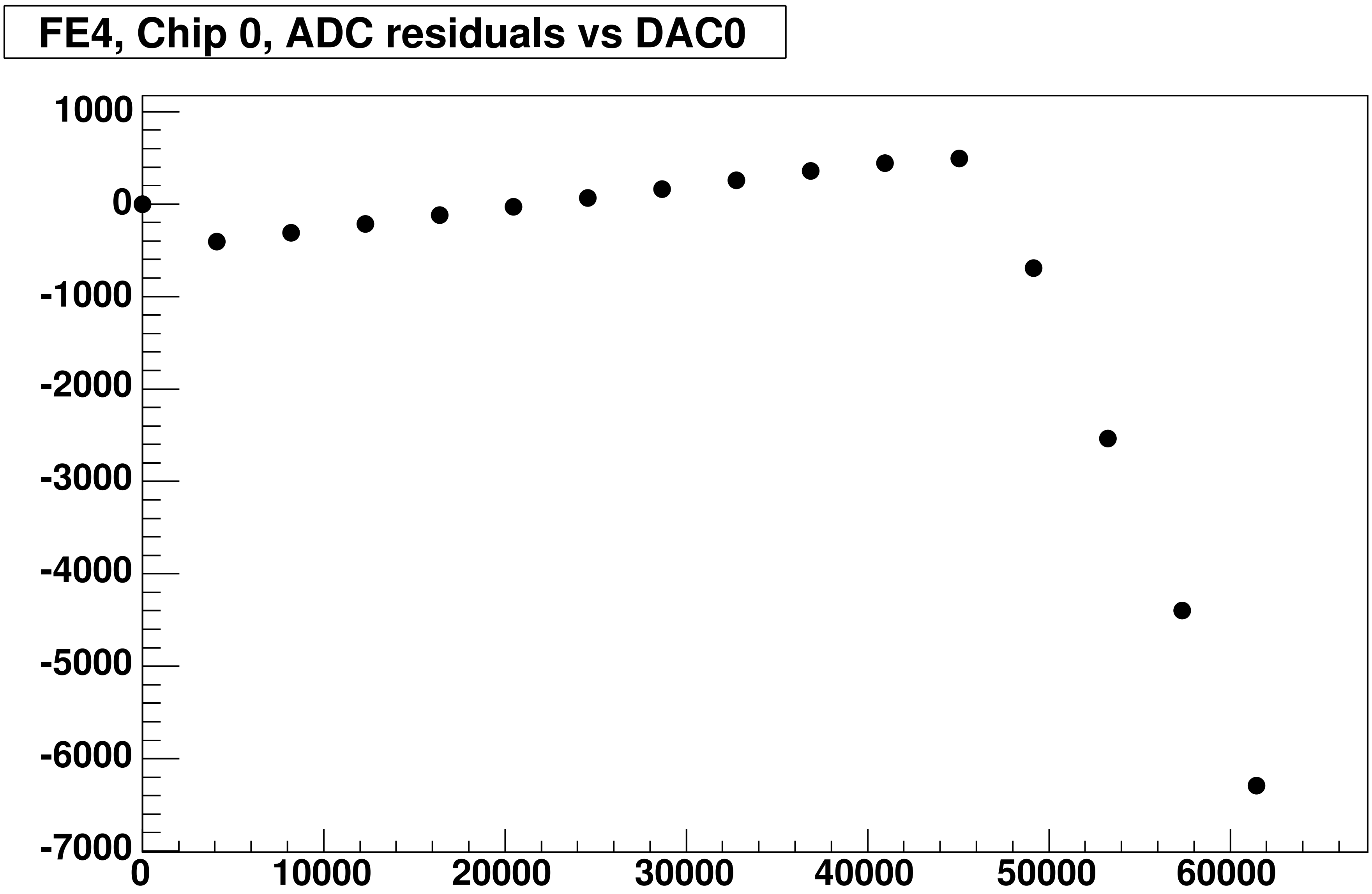

FE3, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

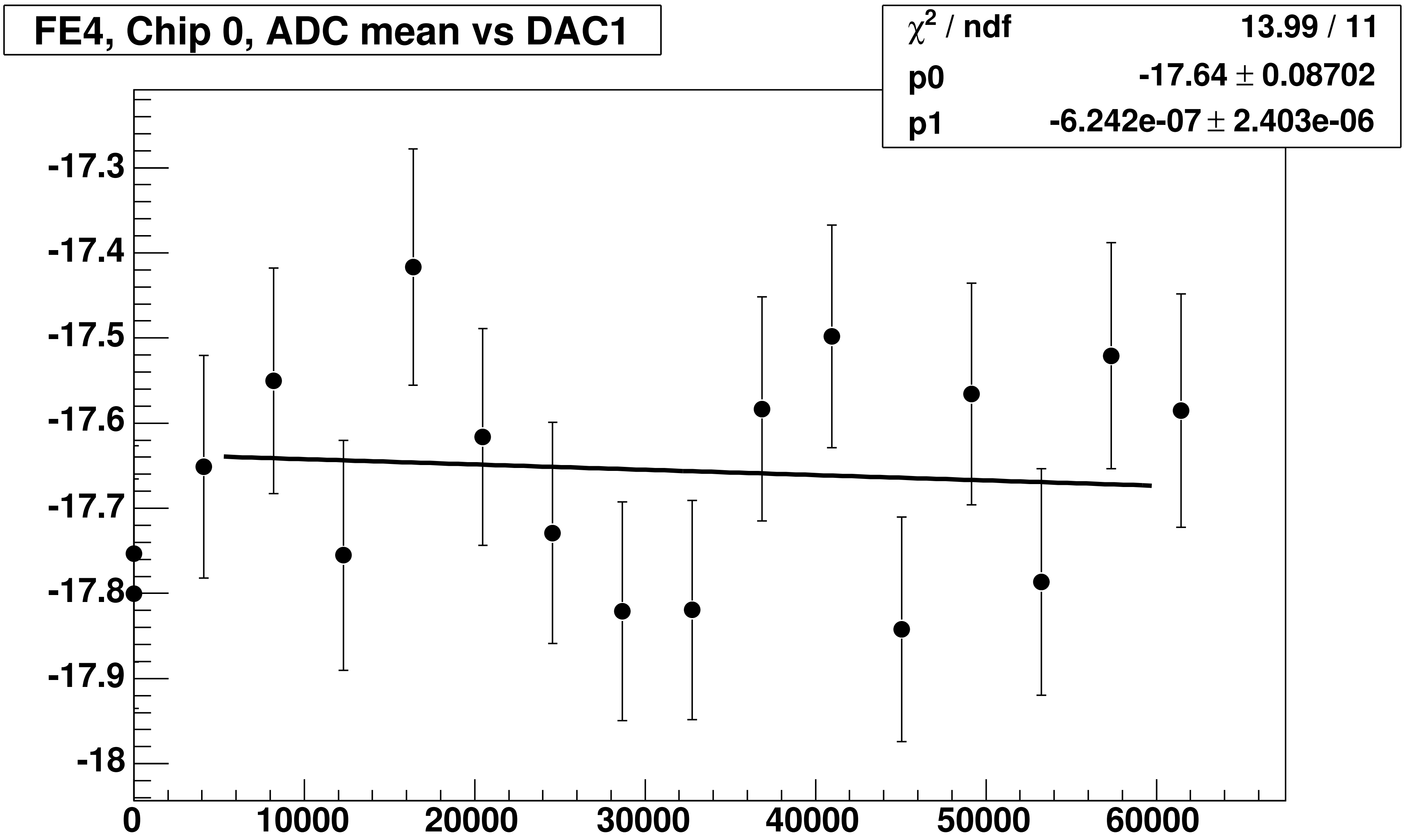


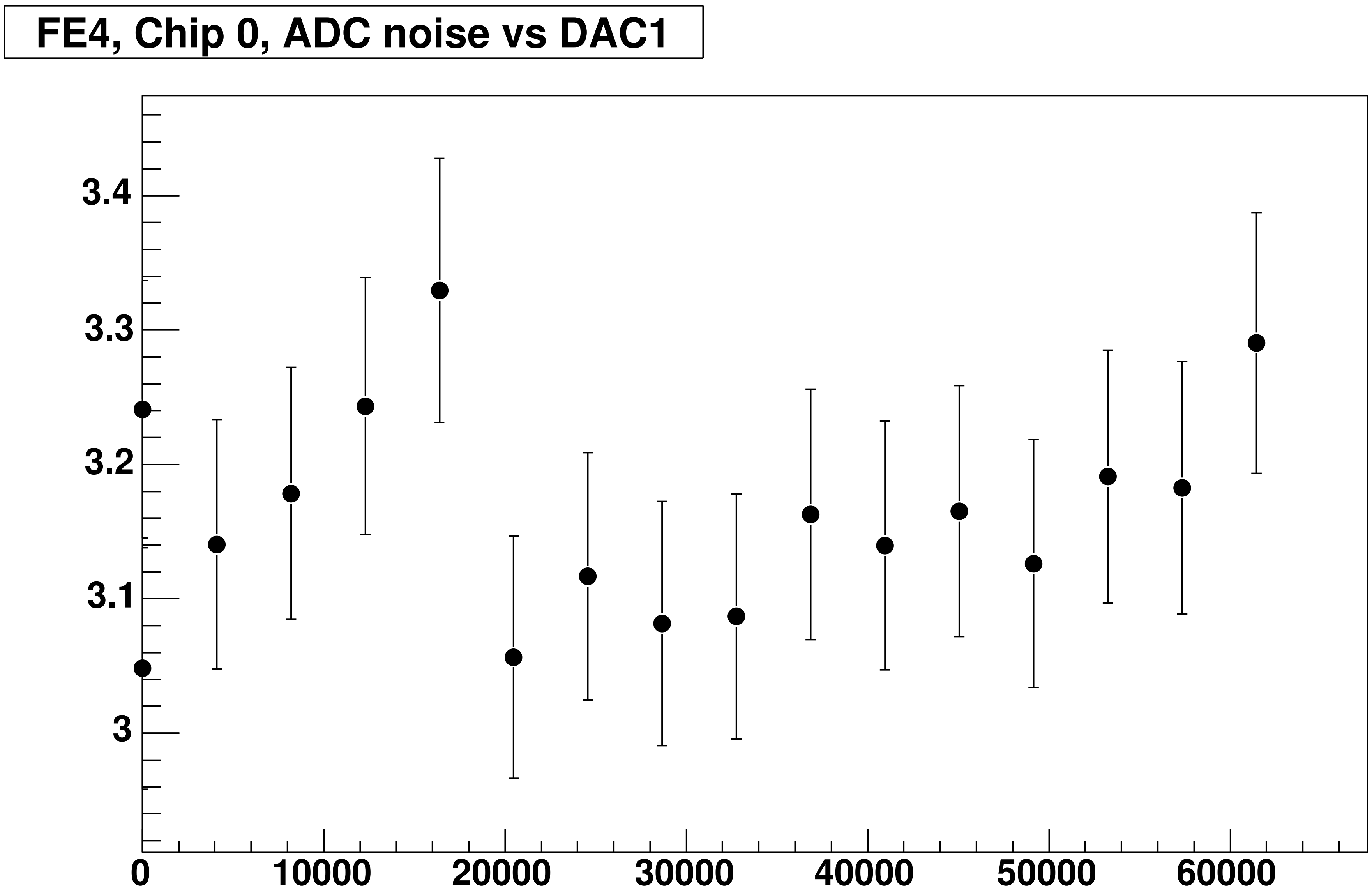
FE4, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2.614e+08 / 11
p0 483.5 ± 0.09606
p1 0.4528 ± 3.202e-06
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



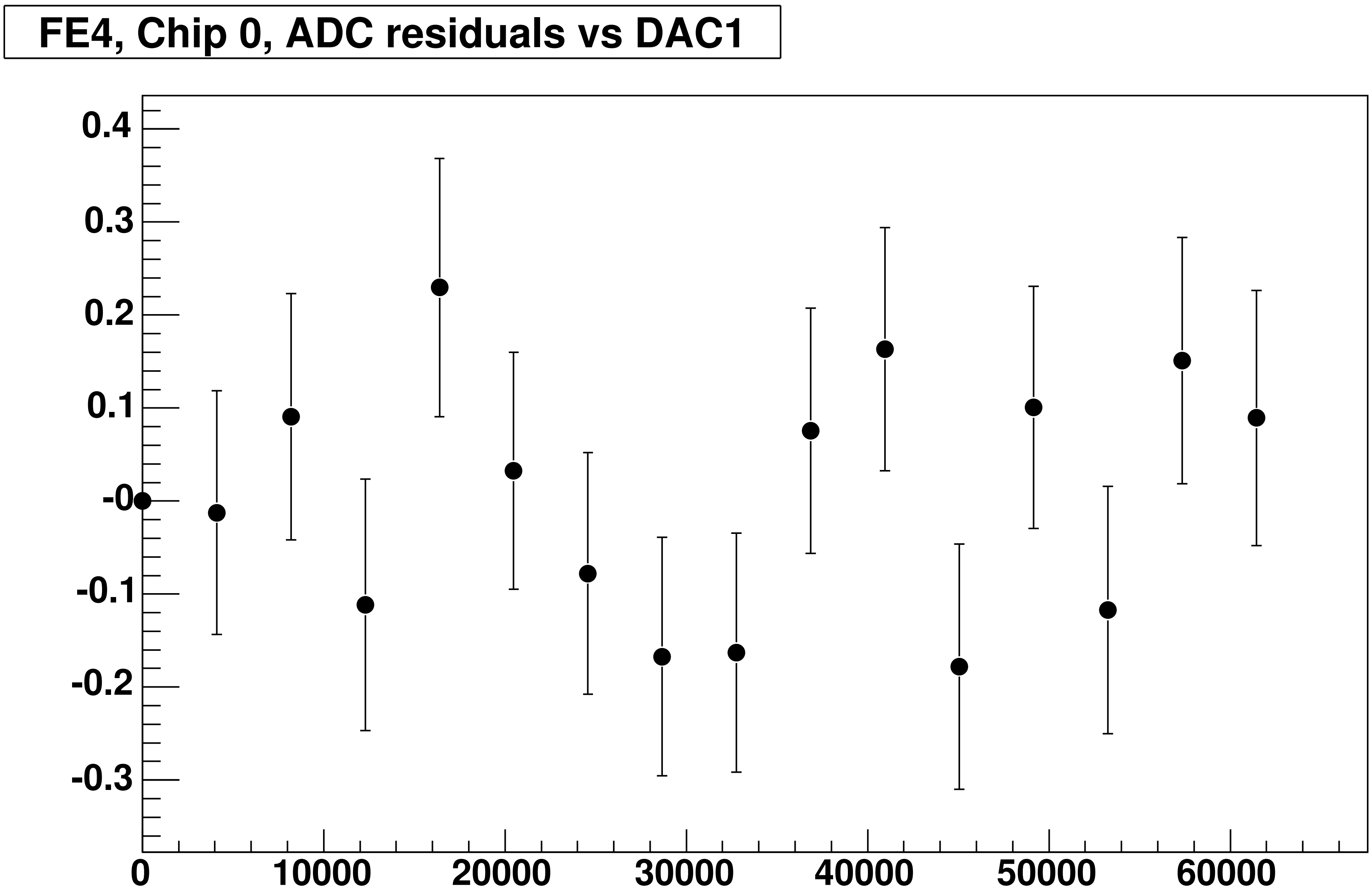
FE4, Chip 0, ADC noise vs DAC0
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 0, ADC residuals vs DAC0
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
10000
20000
30000
40000
50000
60000

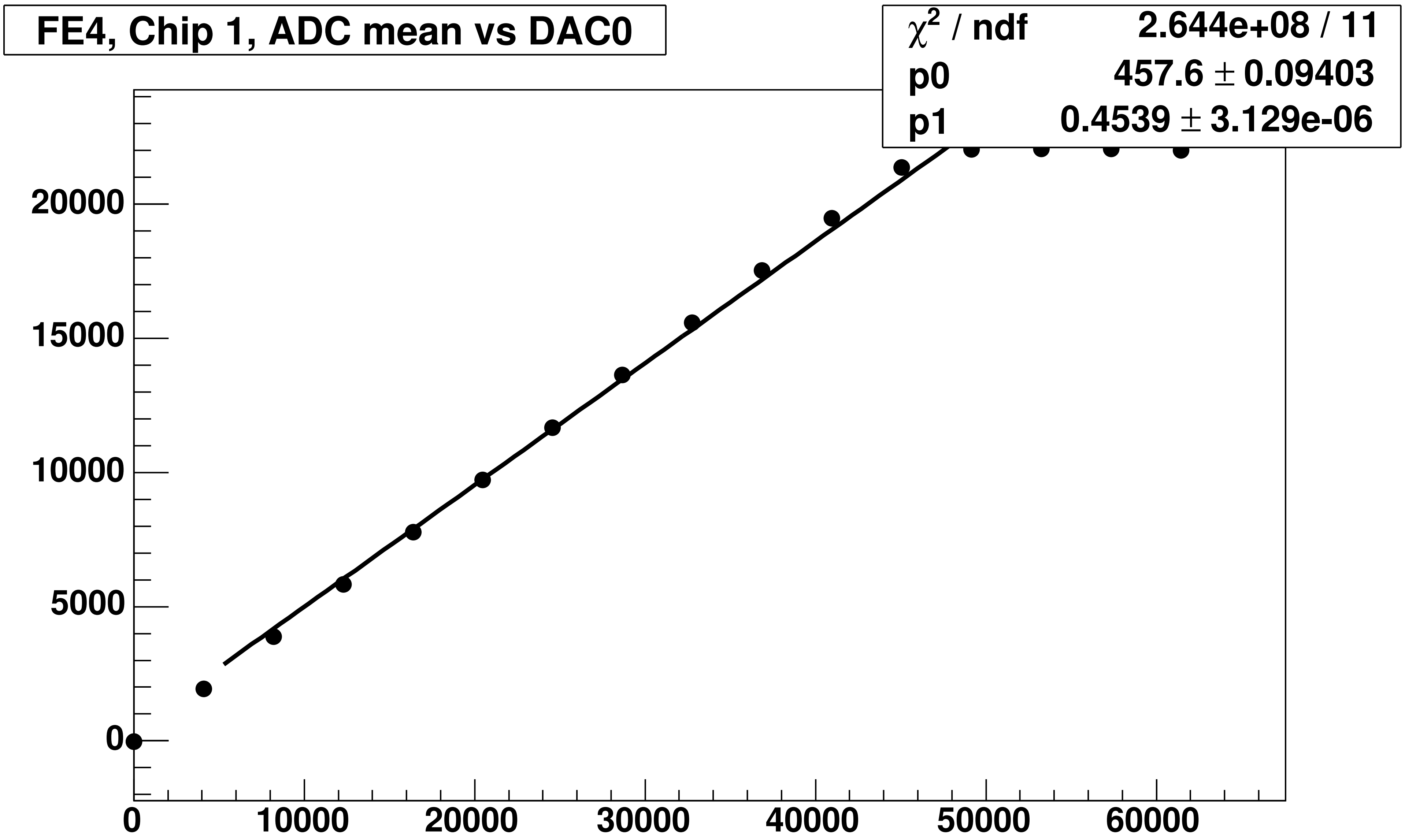

FE4, Chip 0, ADC mean vs DAC1
χ^2 / ndf 13.99 / 11
p0 -17.64 ± 0.08702
p1 -6.242e-07 ± 2.403e-06
-17.3
-17.4
-17.5
-17.6
-17.7
-17.8
-17.9
-18
0
10000
20000
30000
40000
50000
60000



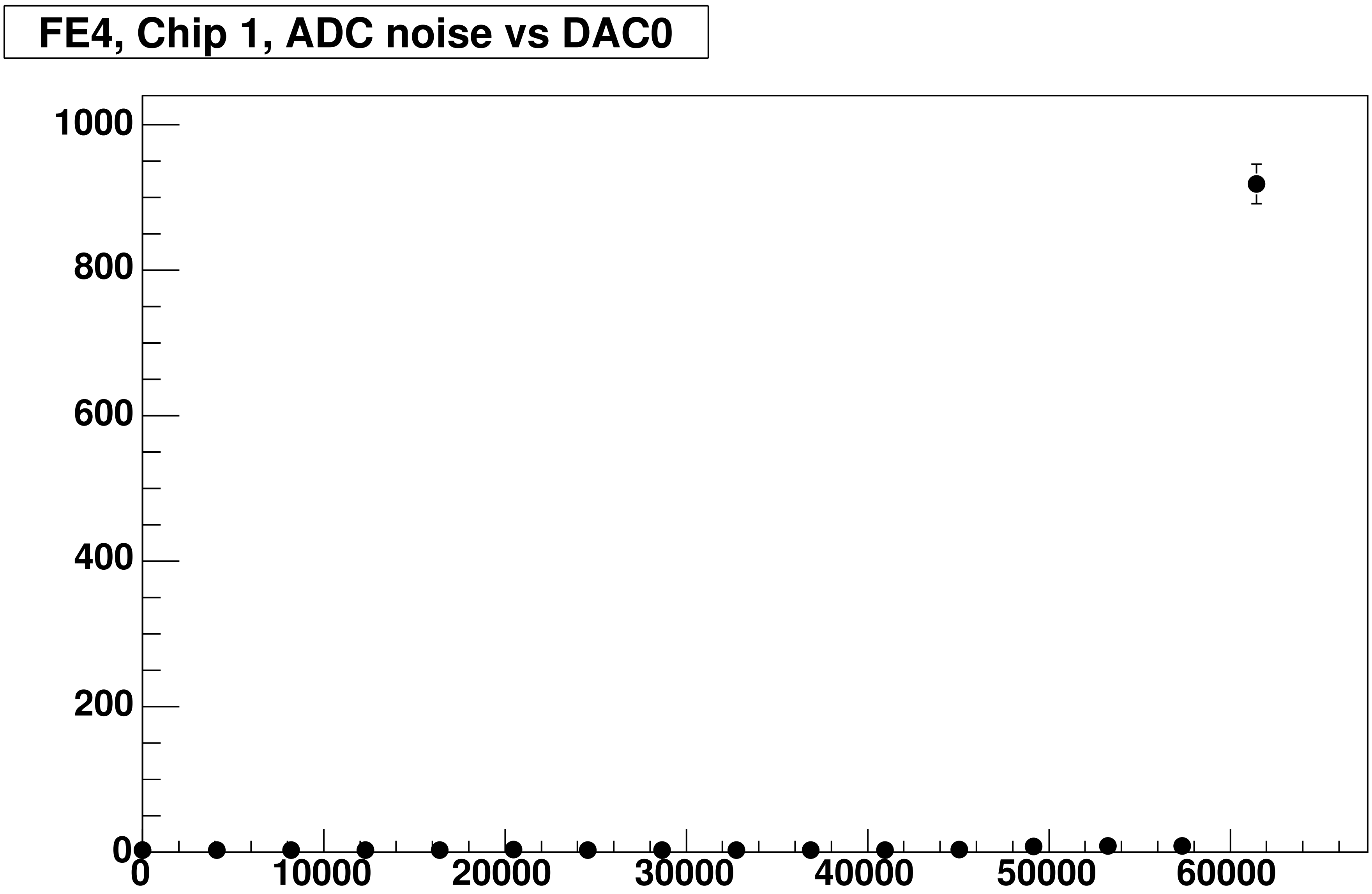
FE4, Chip 0, ADC noise vs DAC1
3.4
3.3
3.2
3.1
3
0
10000
20000
30000
40000
50000
60000

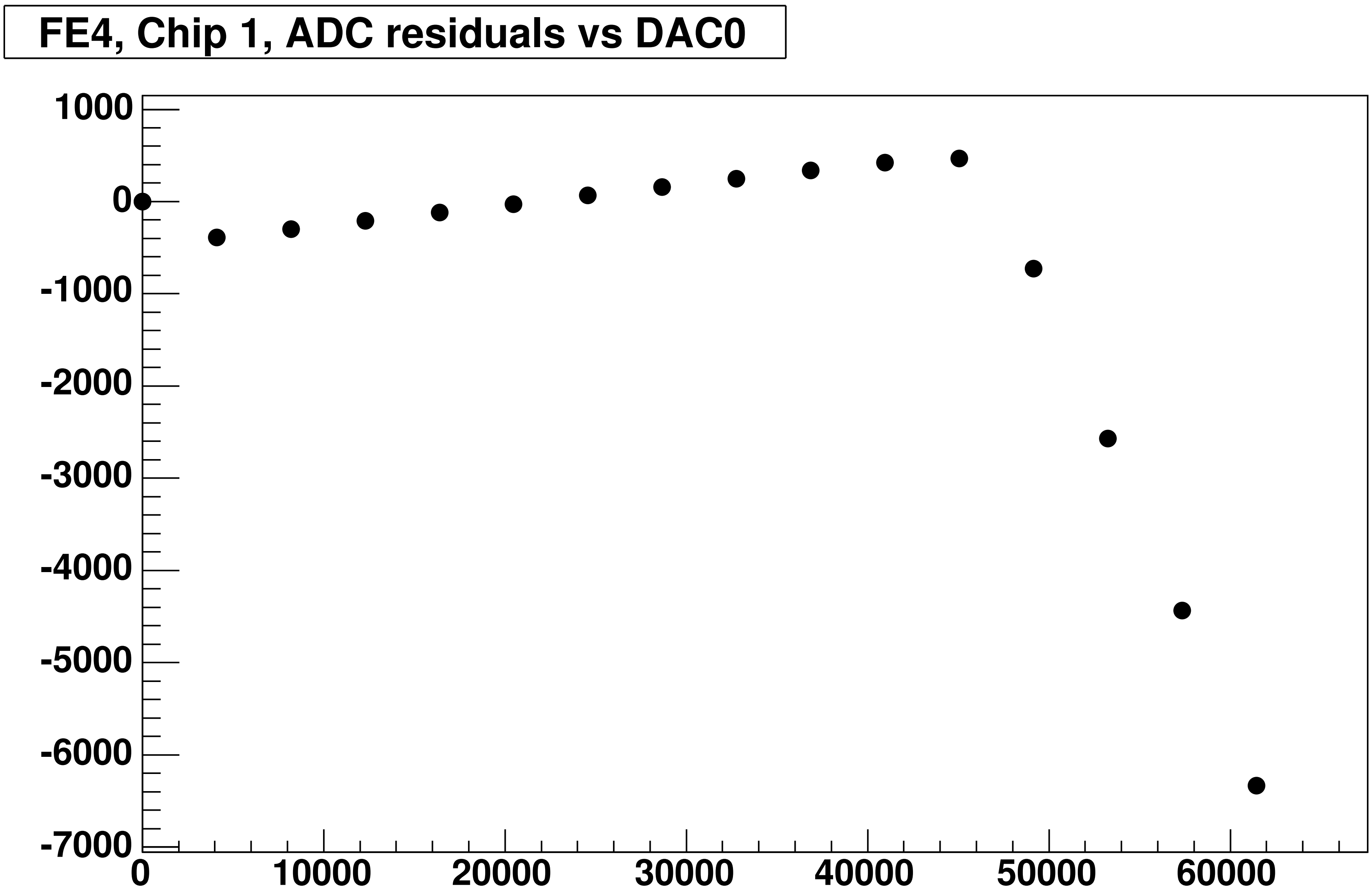


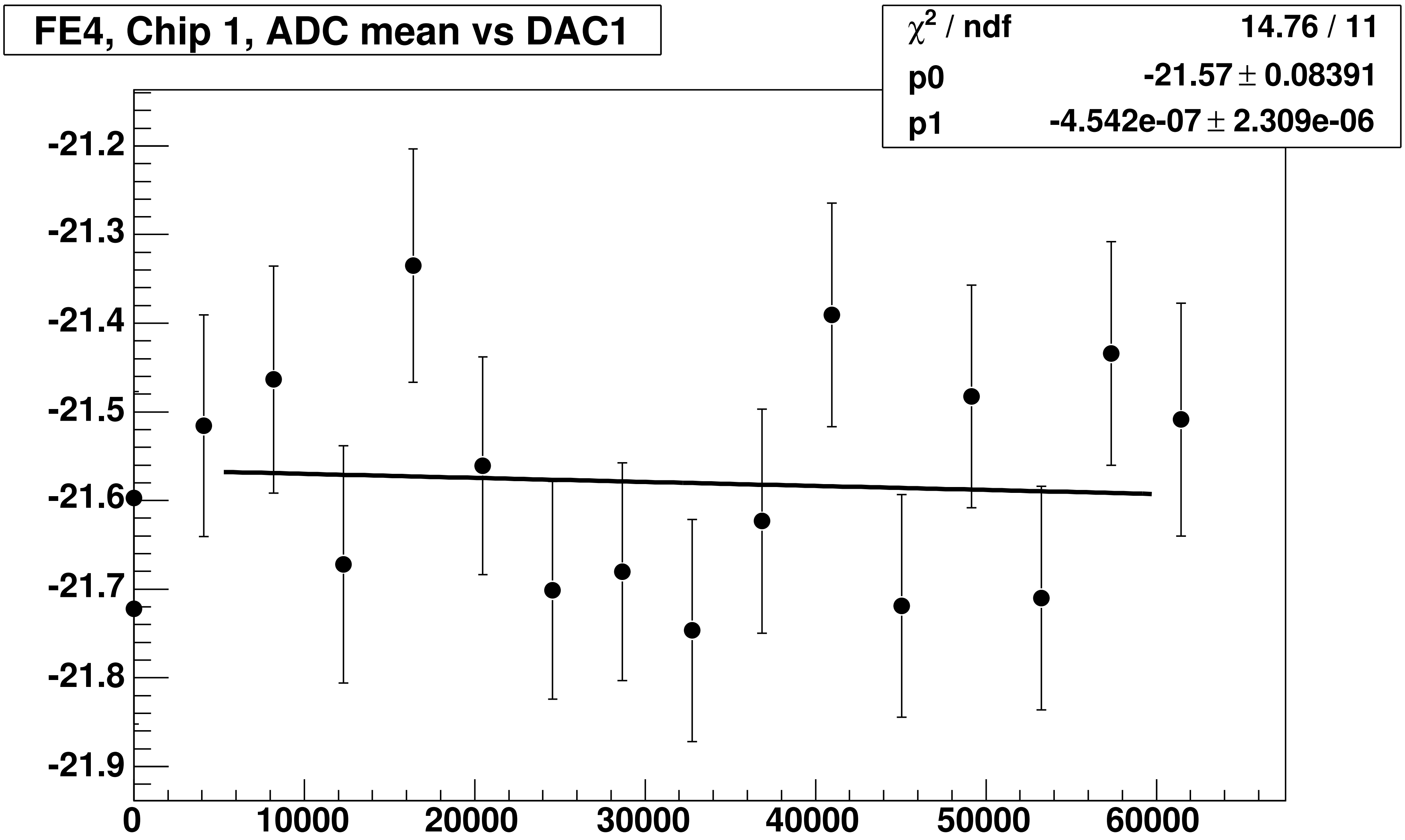
FE4, Chip 0, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



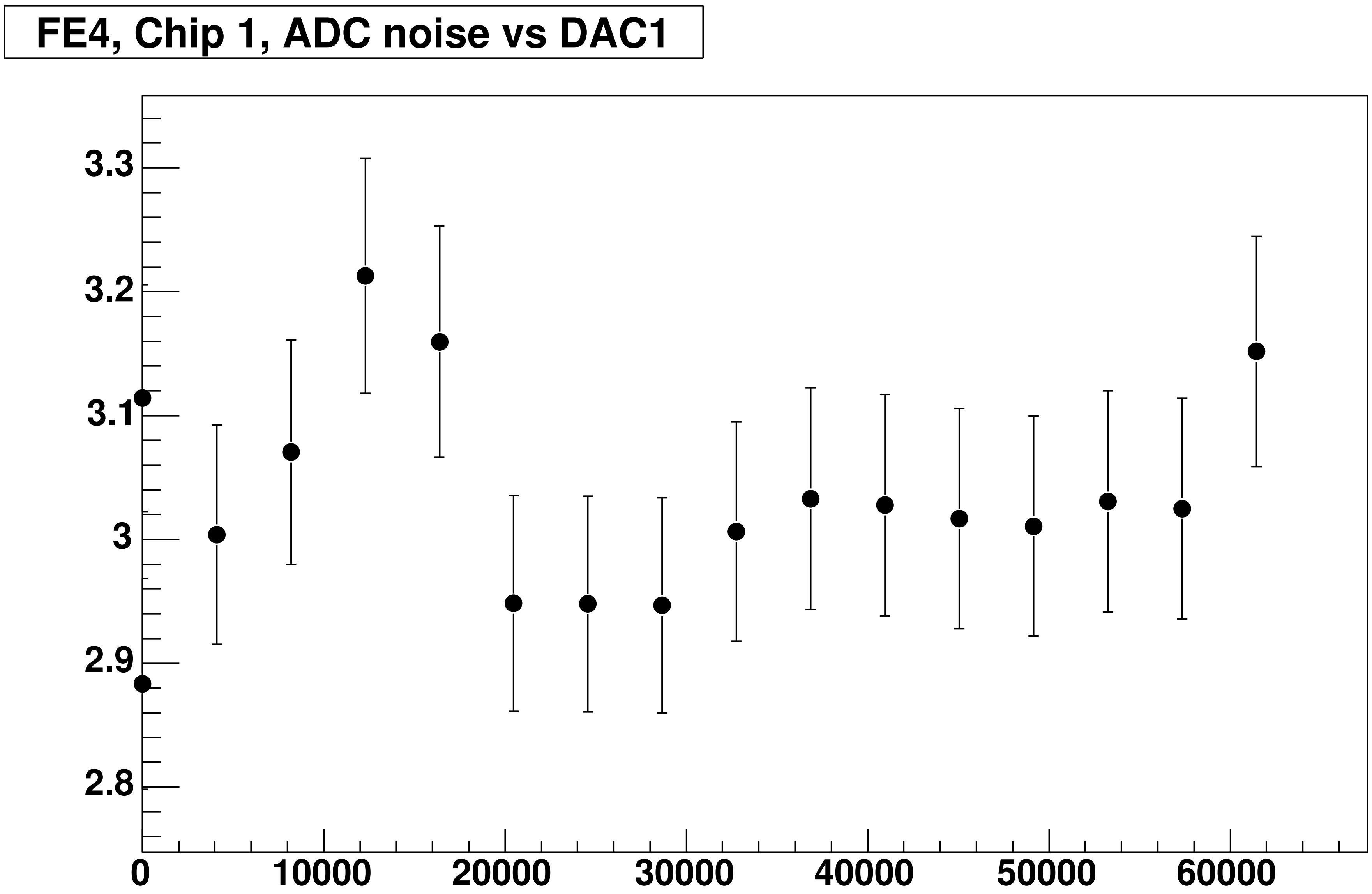
FE4, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2.644e+08 / 11
p0 457.6 ± 0.09403
p1 0.4539 ± 3.129e-06
0
5000
10000
15000
20000
0
10000
20000
30000
40000
50000
60000

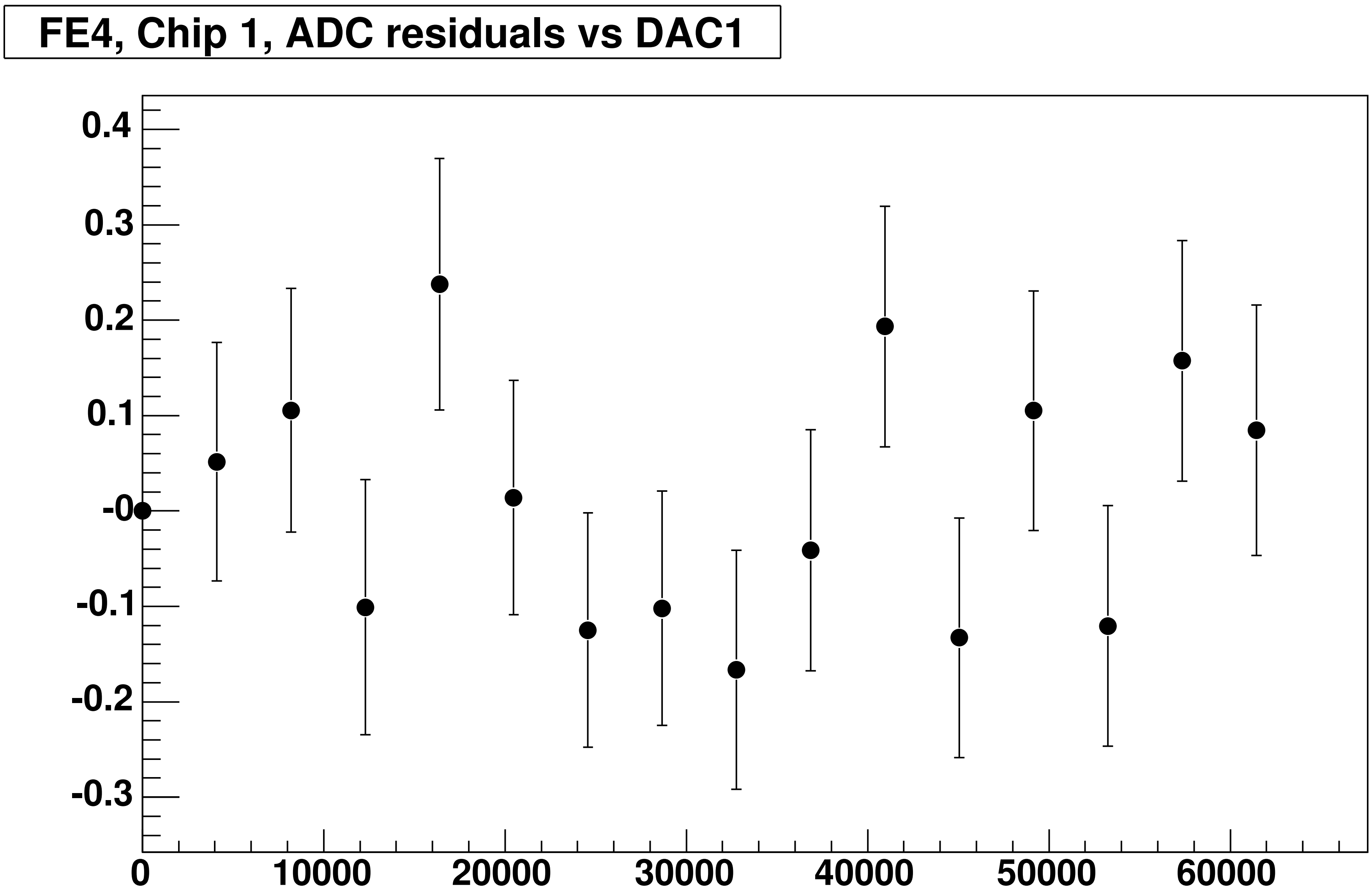

FE4, Chip 1, ADC noise vs DAC0
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

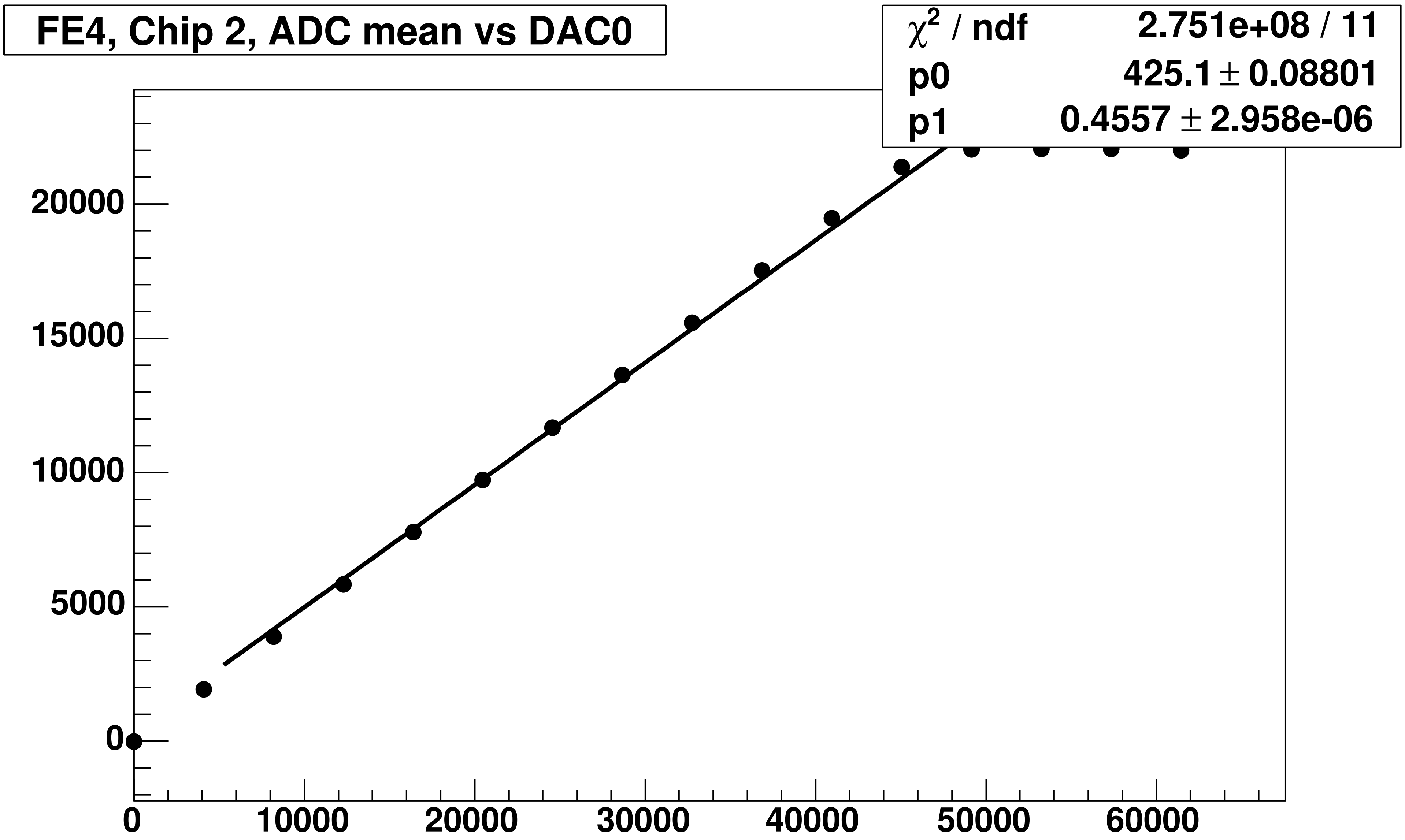

FE4, Chip 1, ADC residuals vs DAC0
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
10000
20000
30000
40000
50000
60000



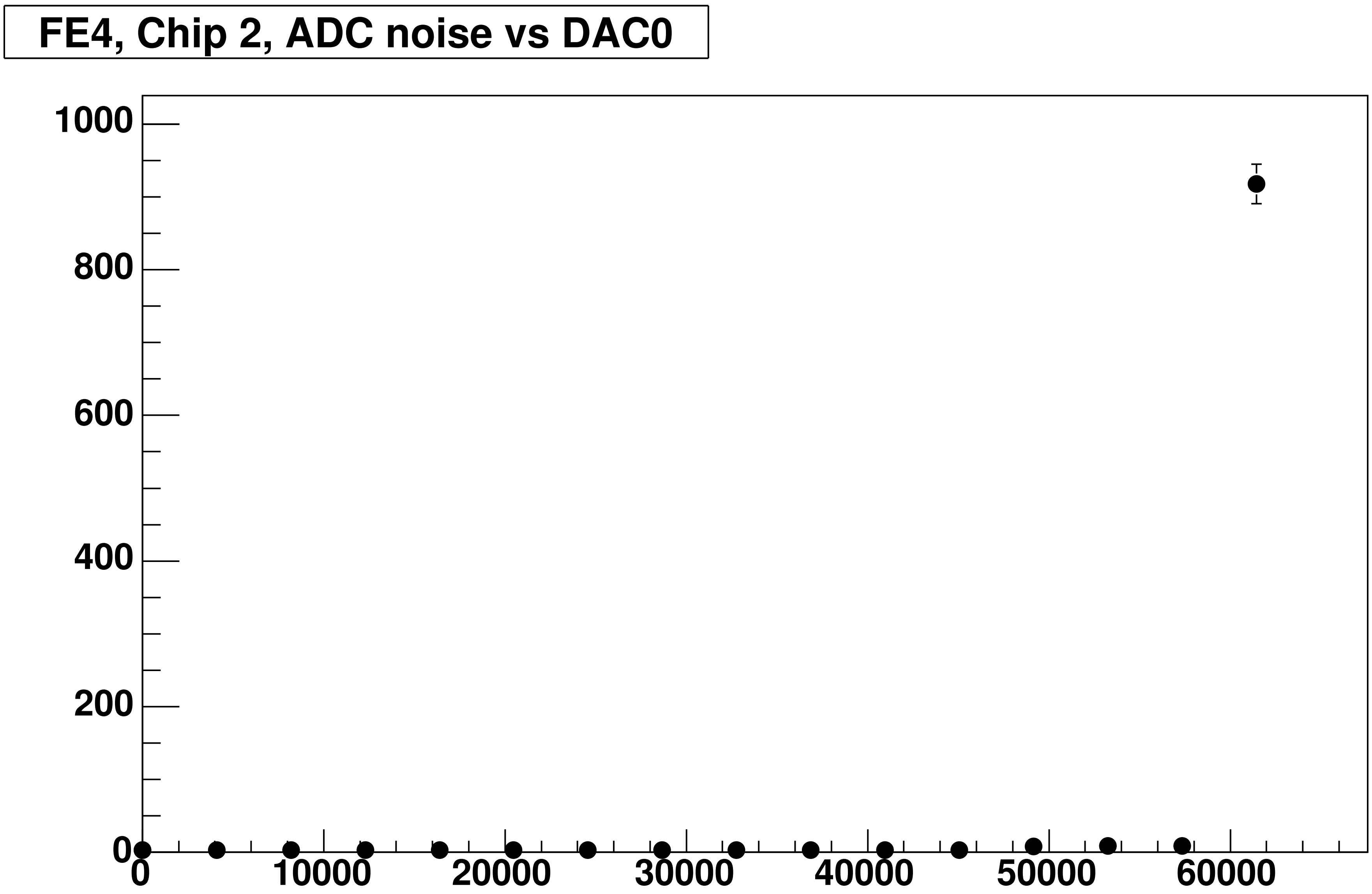
FE4, Chip 1, ADC mean vs DAC1
χ^2 / ndf 14.76 / 11
p0 -21.57 ± 0.08391
p1 -4.542e-07 ± 2.309e-06
-21.2
-21.3
-21.4
-21.5
-21.6
-21.7
-21.8
-21.9
0
10000
20000
30000
40000
50000
60000

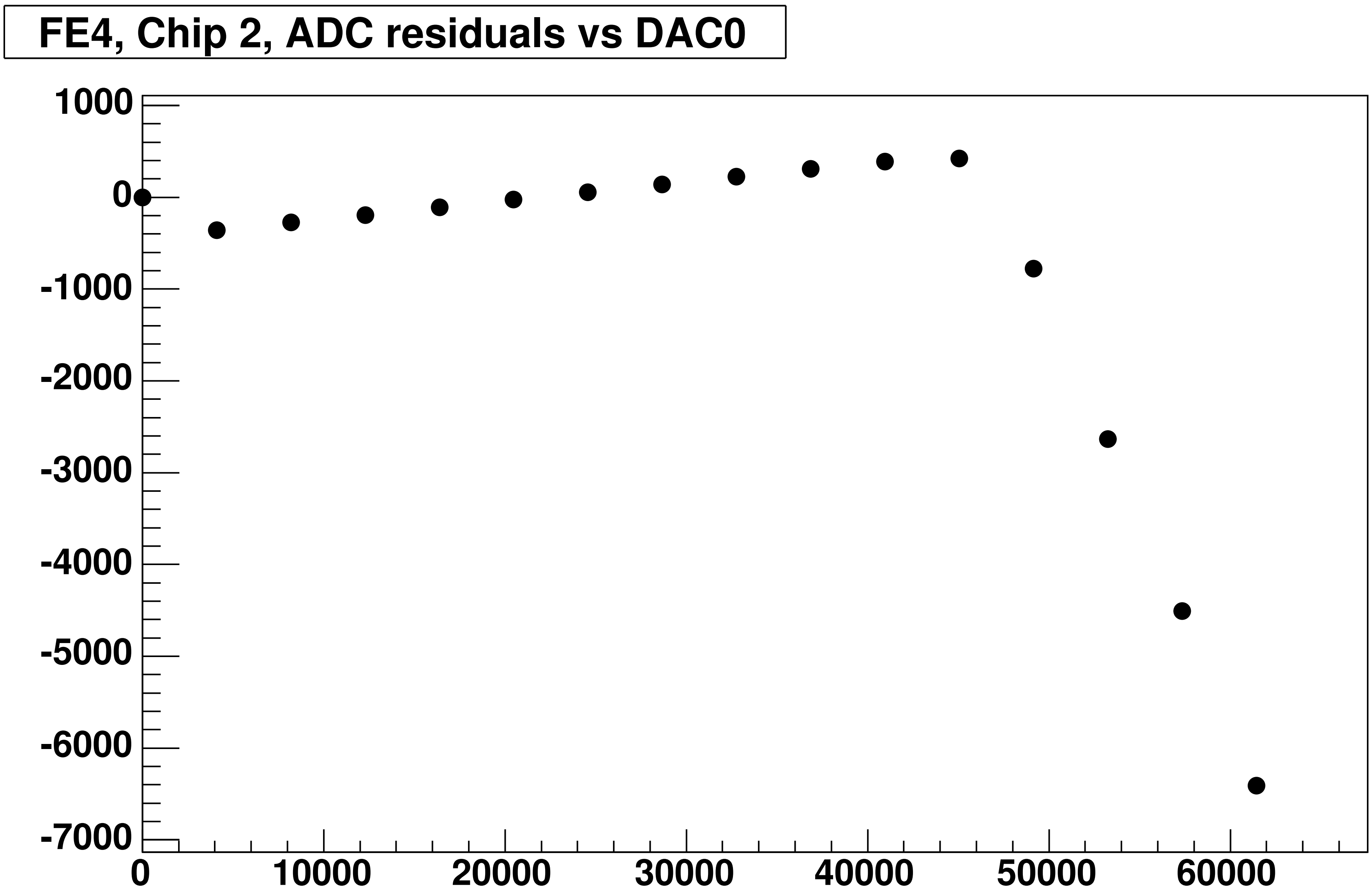

FE4, Chip 1, ADC noise vs DAC1
3.3
3.2
3.1
3
2.9
2.8
0
10000
20000
30000
40000
50000
60000

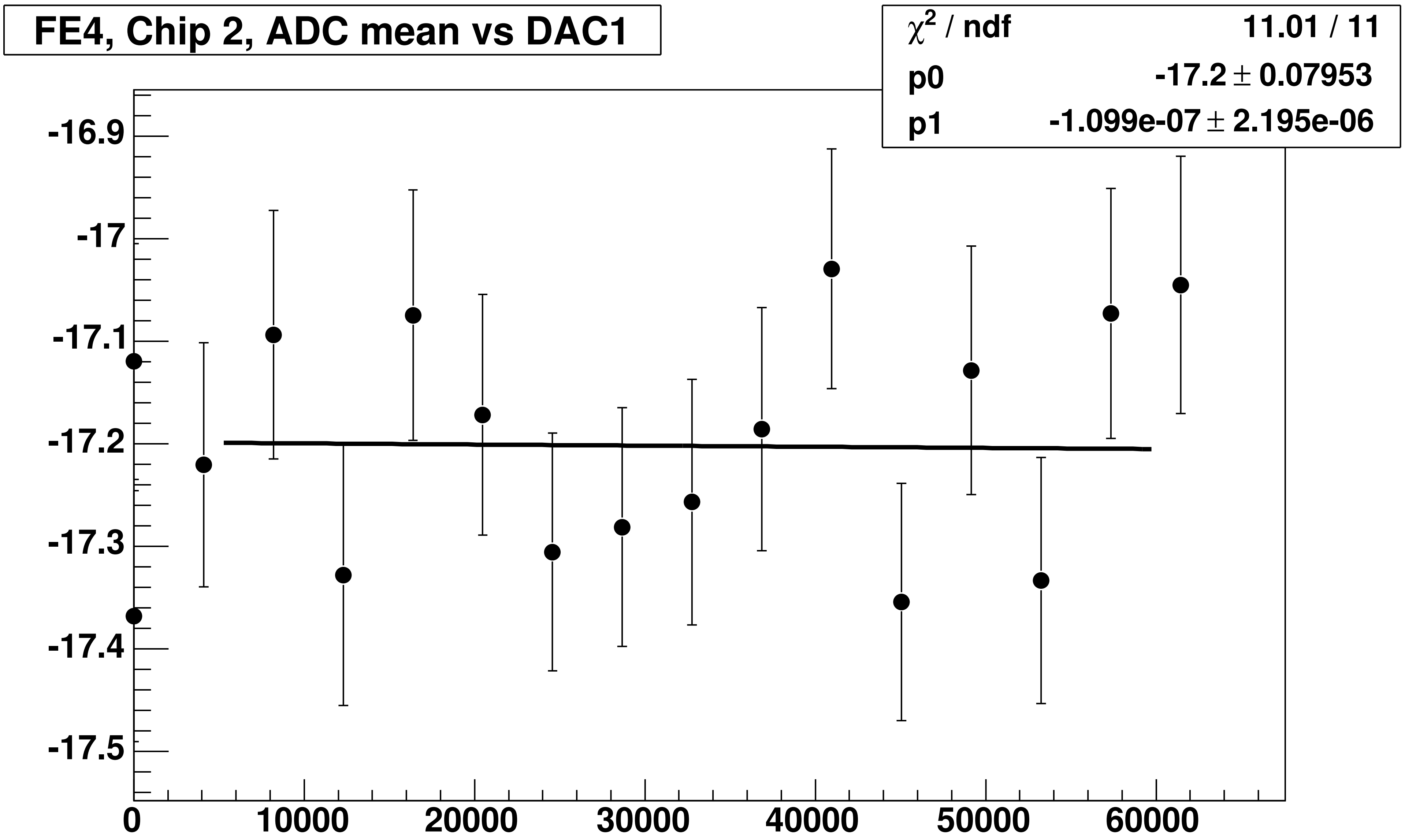

FE4, Chip 1, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



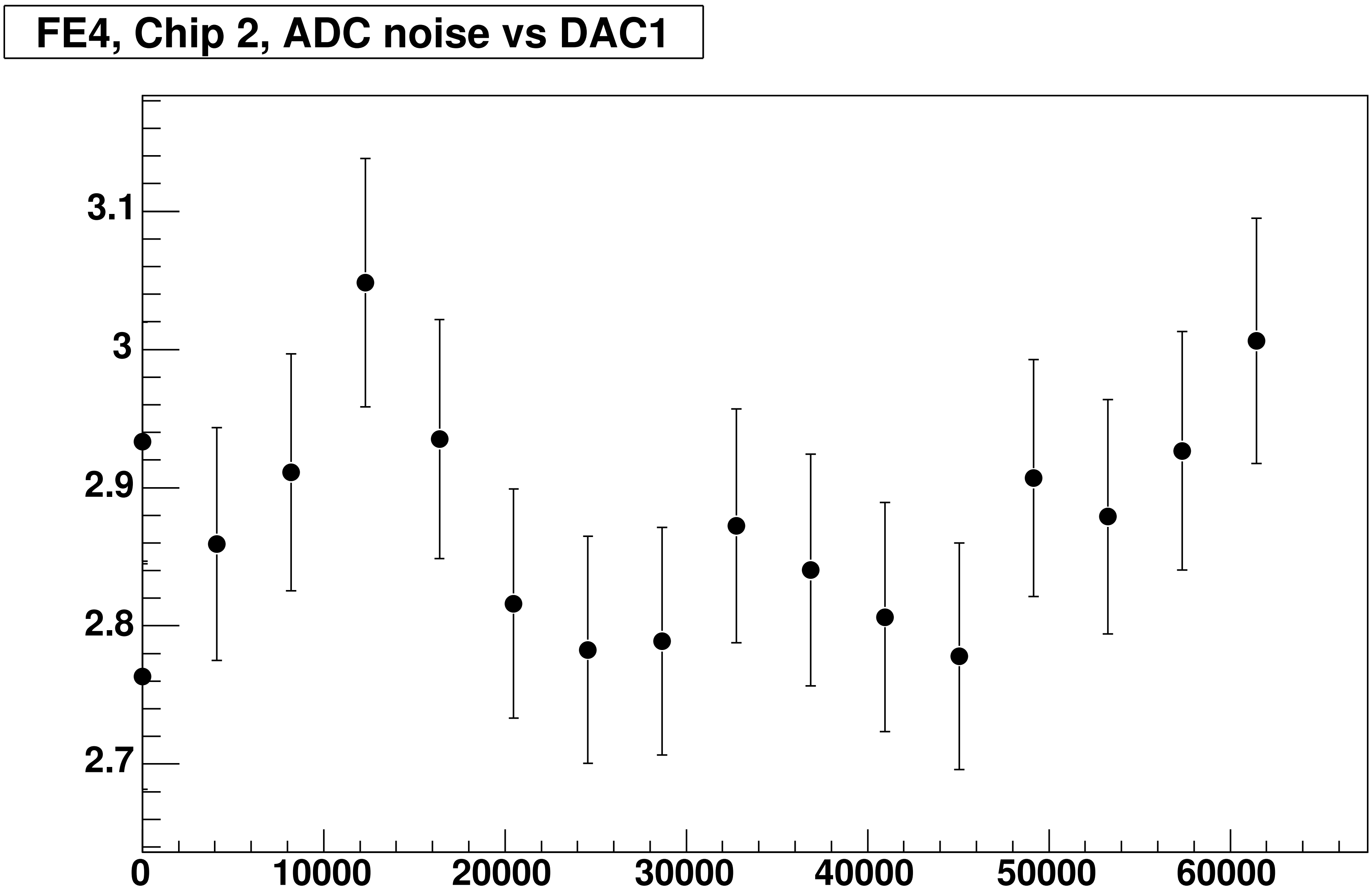
FE4, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2.751e+08 / 11
p0 425.1 ± 0.08801
p1 0.4557 ± 2.958e-06
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

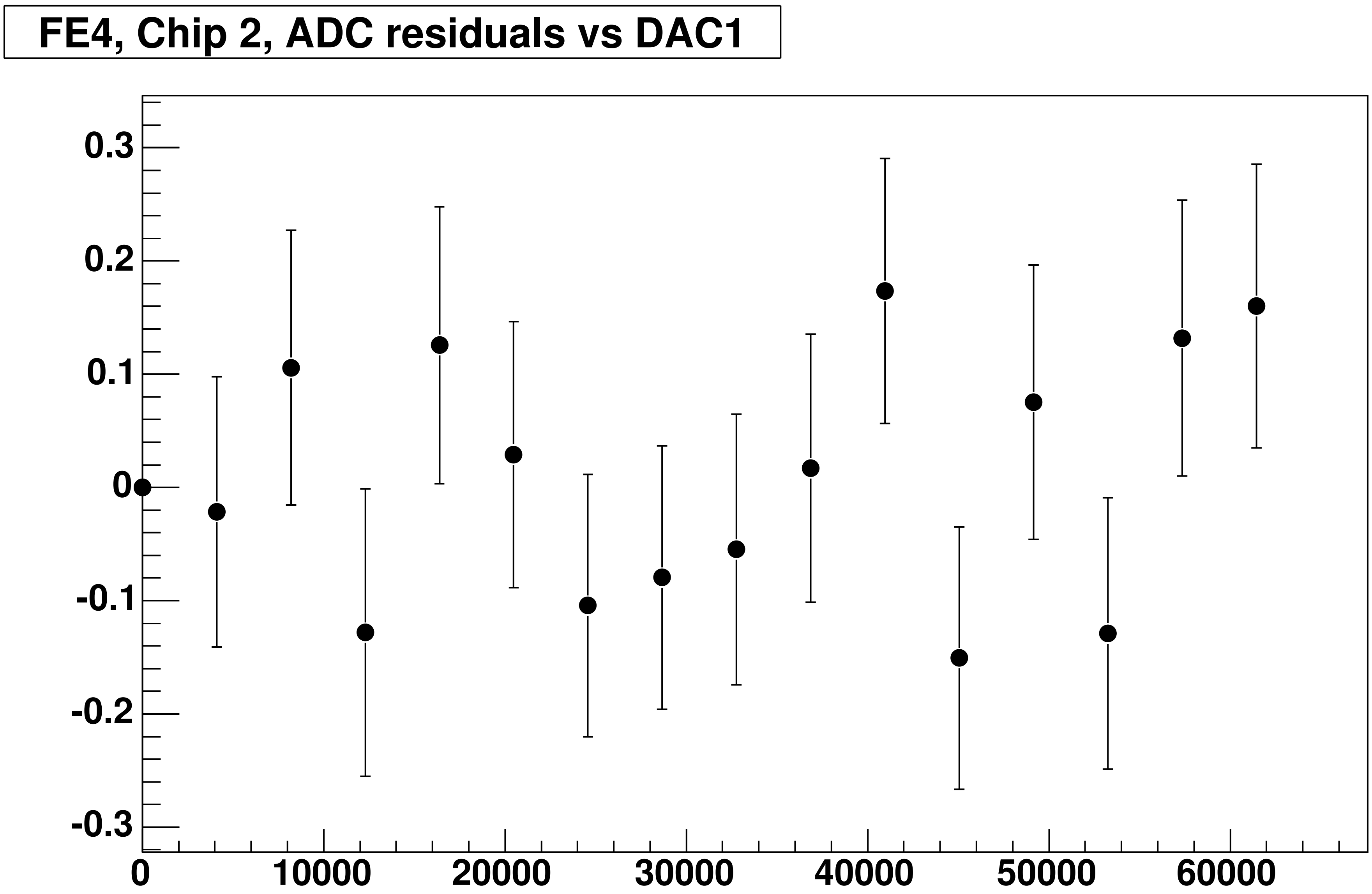

FE4, Chip 2, ADC noise vs DAC0
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

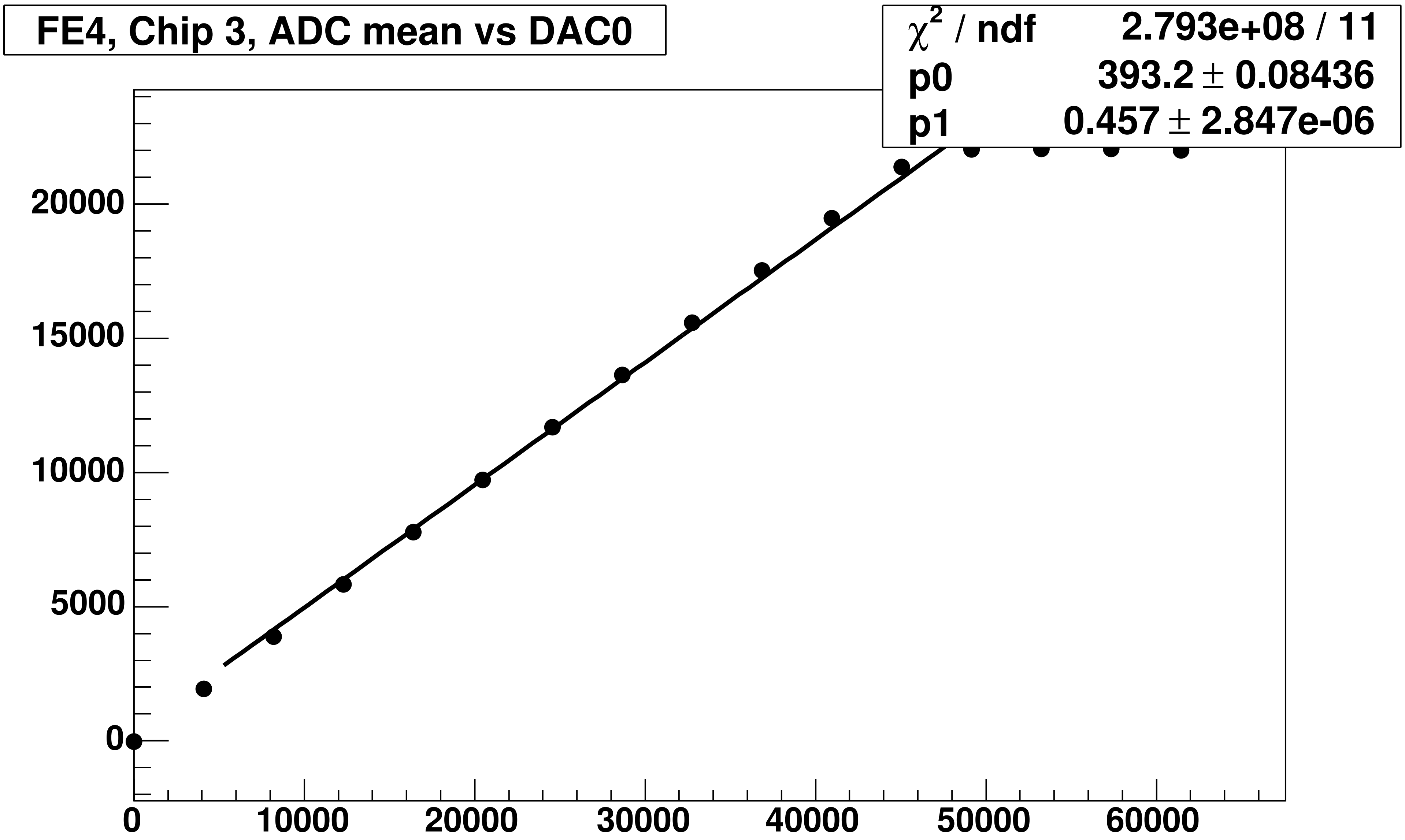

FE4, Chip 2, ADC residuals vs DAC0
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
10000
20000
30000
40000
50000
60000



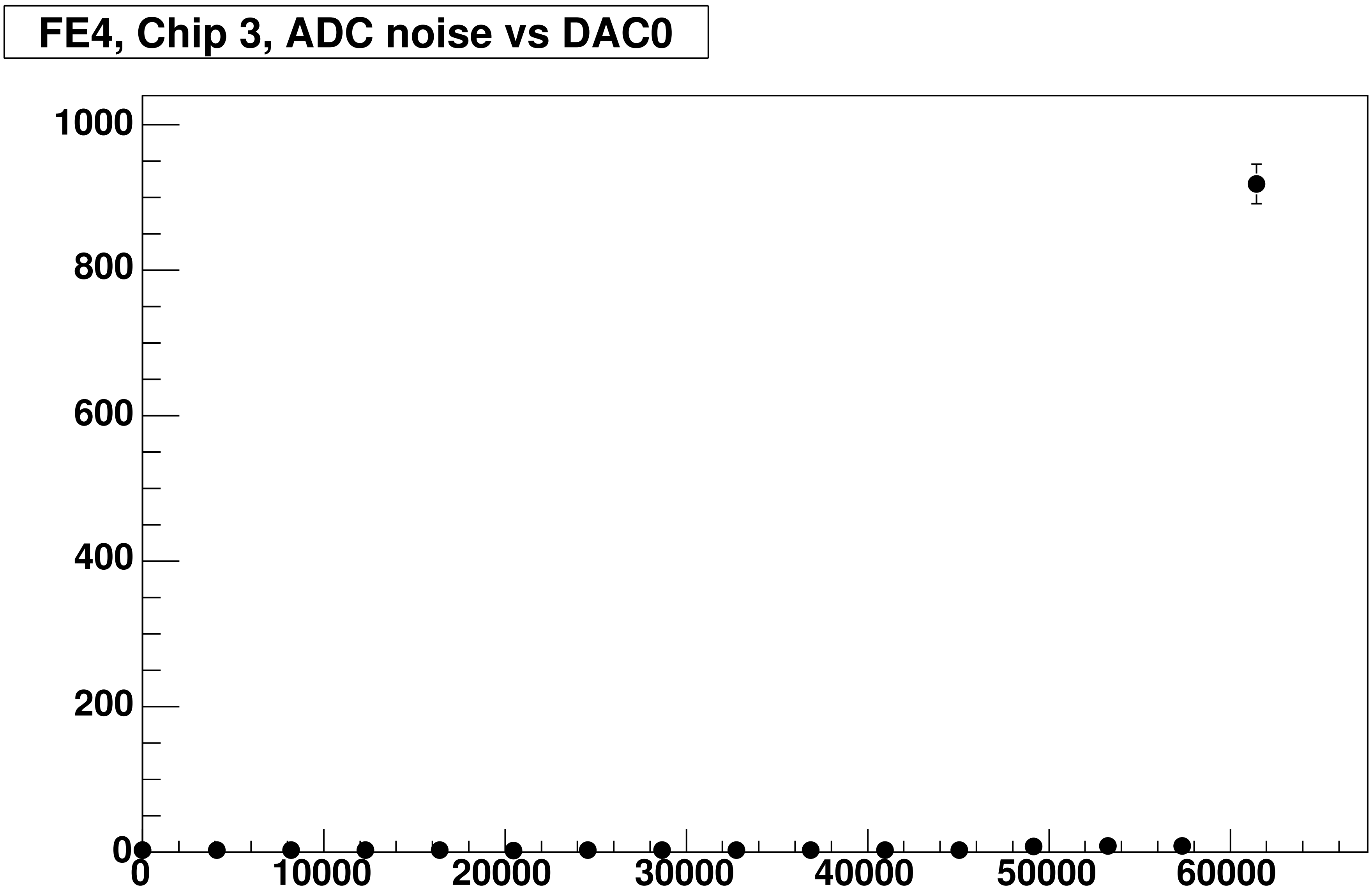
FE4, Chip 2, ADC mean vs DAC1
χ^2 / ndf 11.01 / 11
p0 -17.2 ± 0.07953
p1 -1.099e-07 ± 2.195e-06
-16.9
-17
-17.1
-17.2
-17.3
-17.4
-17.5
0
10000
20000
30000
40000
50000
60000


FE4, Chip 2, ADC noise vs DAC1
3.1
3
2.9
2.8
2.7
0
10000
20000
30000
40000
50000
60000

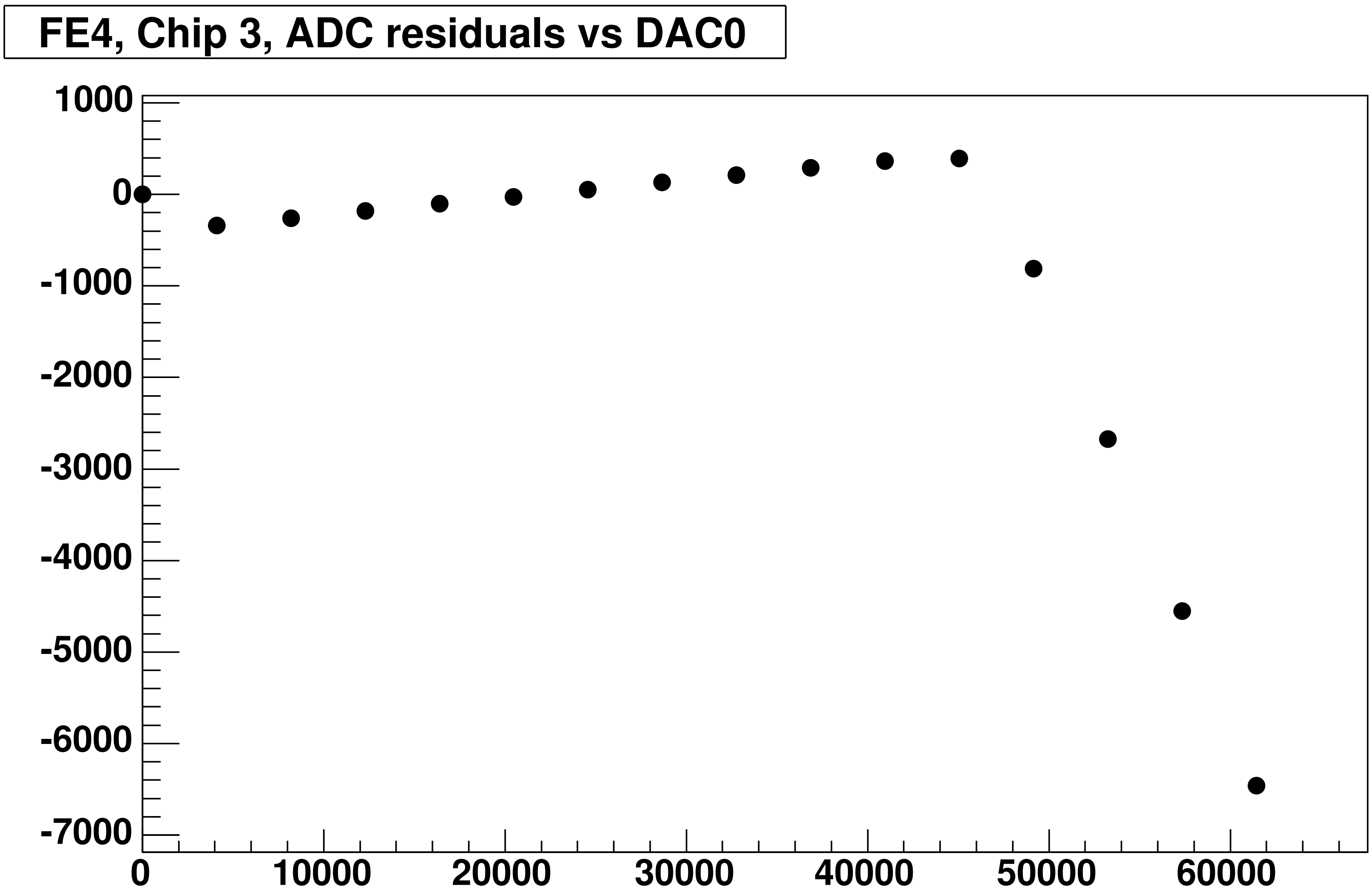

FE4, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



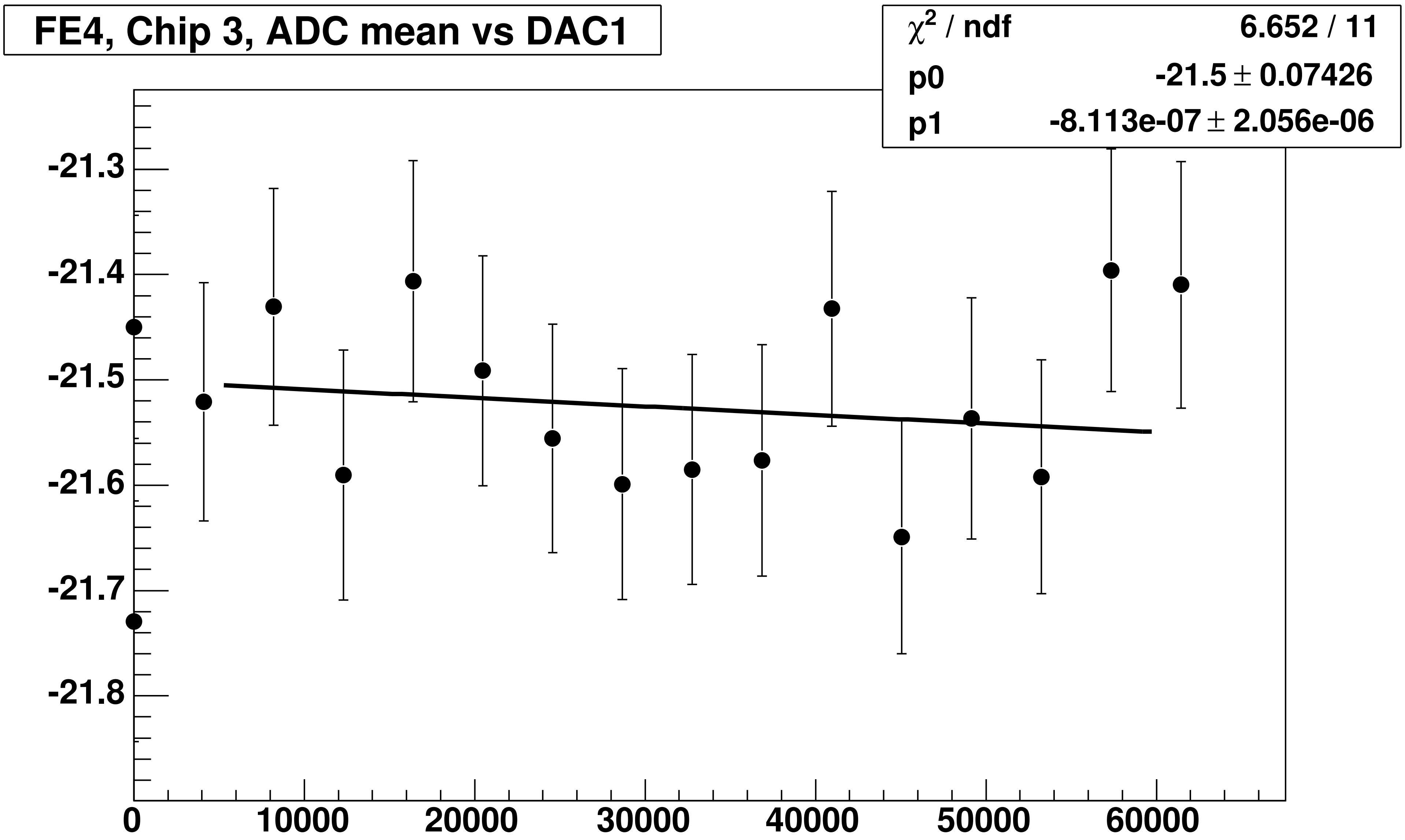
FE4, Chip 3, ADC mean vs DAC0
χ² / ndf 2.793e+08 / 11
p0 393.2 ± 0.08436
p1 0.457 ± 2.847e-06
0
5000
10000
15000
20000
0
10000
20000
30000
40000
50000
60000



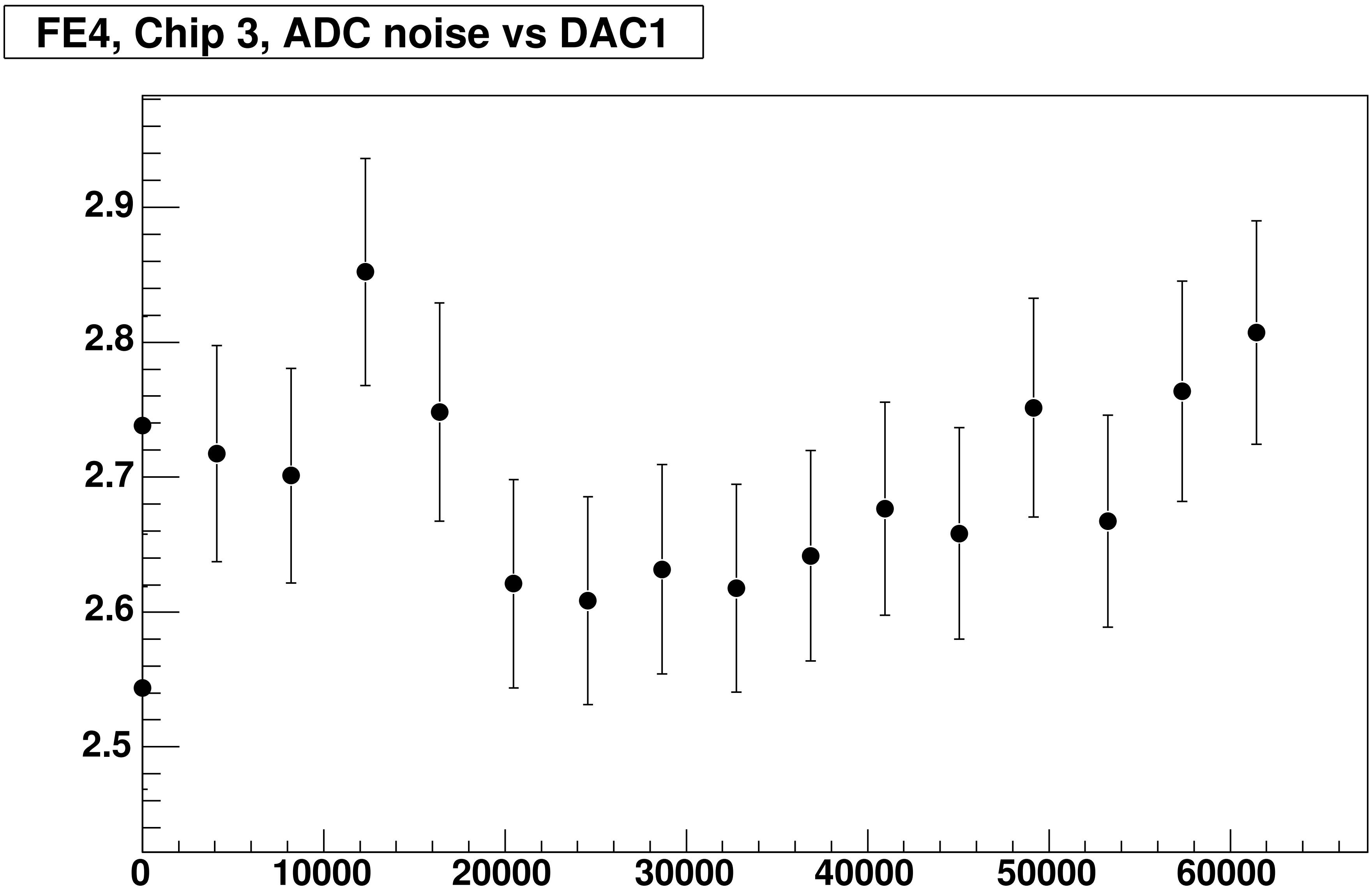
FE4, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
0
10000
20000
30000
40000
50000
60000

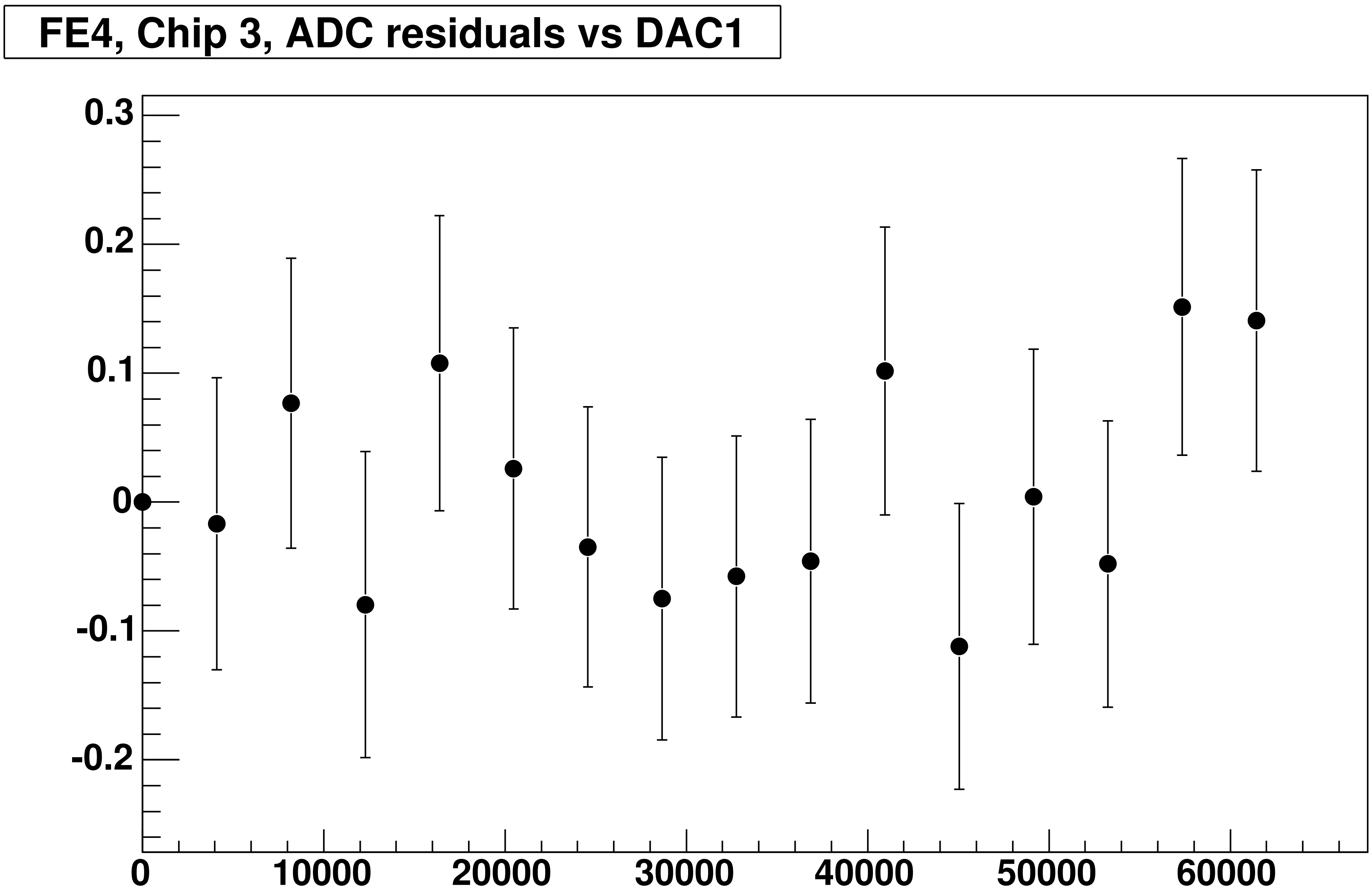


FE4, Chip 3, ADC residuals vs DAC0
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
10000
20000
30000
40000
50000
60000

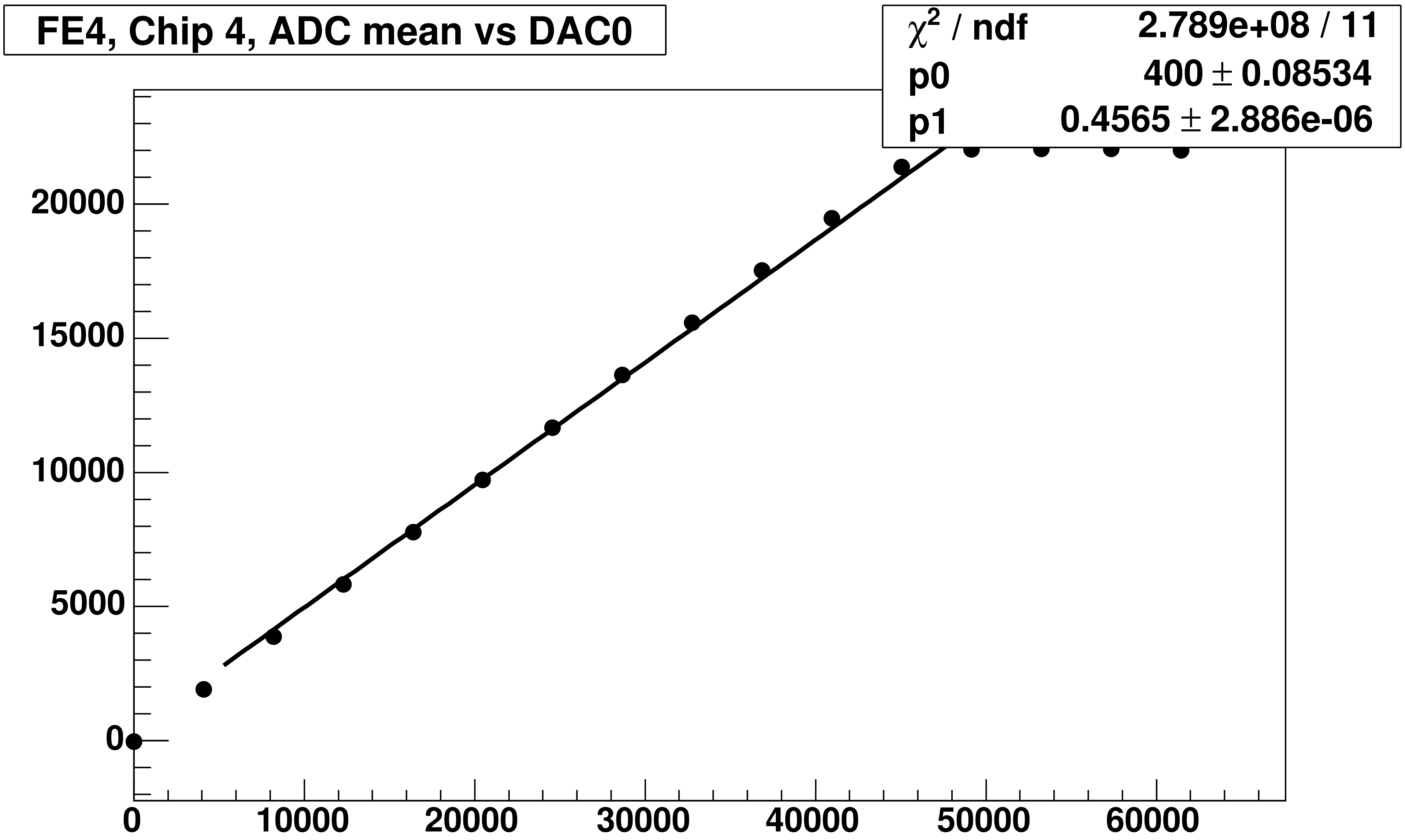


FE4, Chip 3, ADC mean vs DAC1
χ^2 / ndf 6.652 / 11
p0 -21.5 ± 0.07426
p1 -8.113e-07 ± 2.056e-06
-21.3
-21.4
-21.5
-21.6
-21.7
-21.8
0
10000
20000
30000
40000
50000
60000

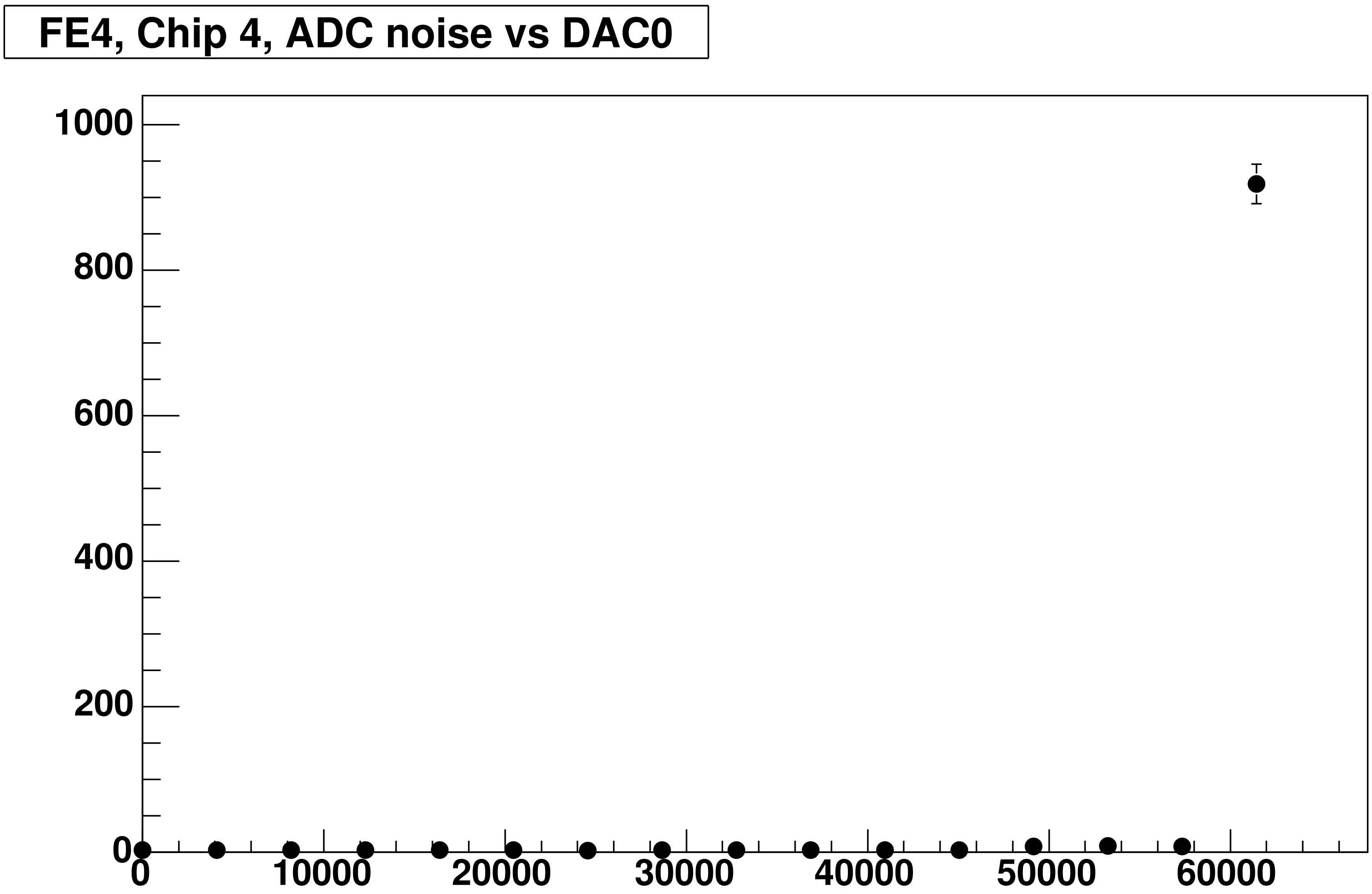

FE4, Chip 3, ADC noise vs DAC1
2.9
2.8
2.7
2.6
2.5
0
10000
20000
30000
40000
50000
60000

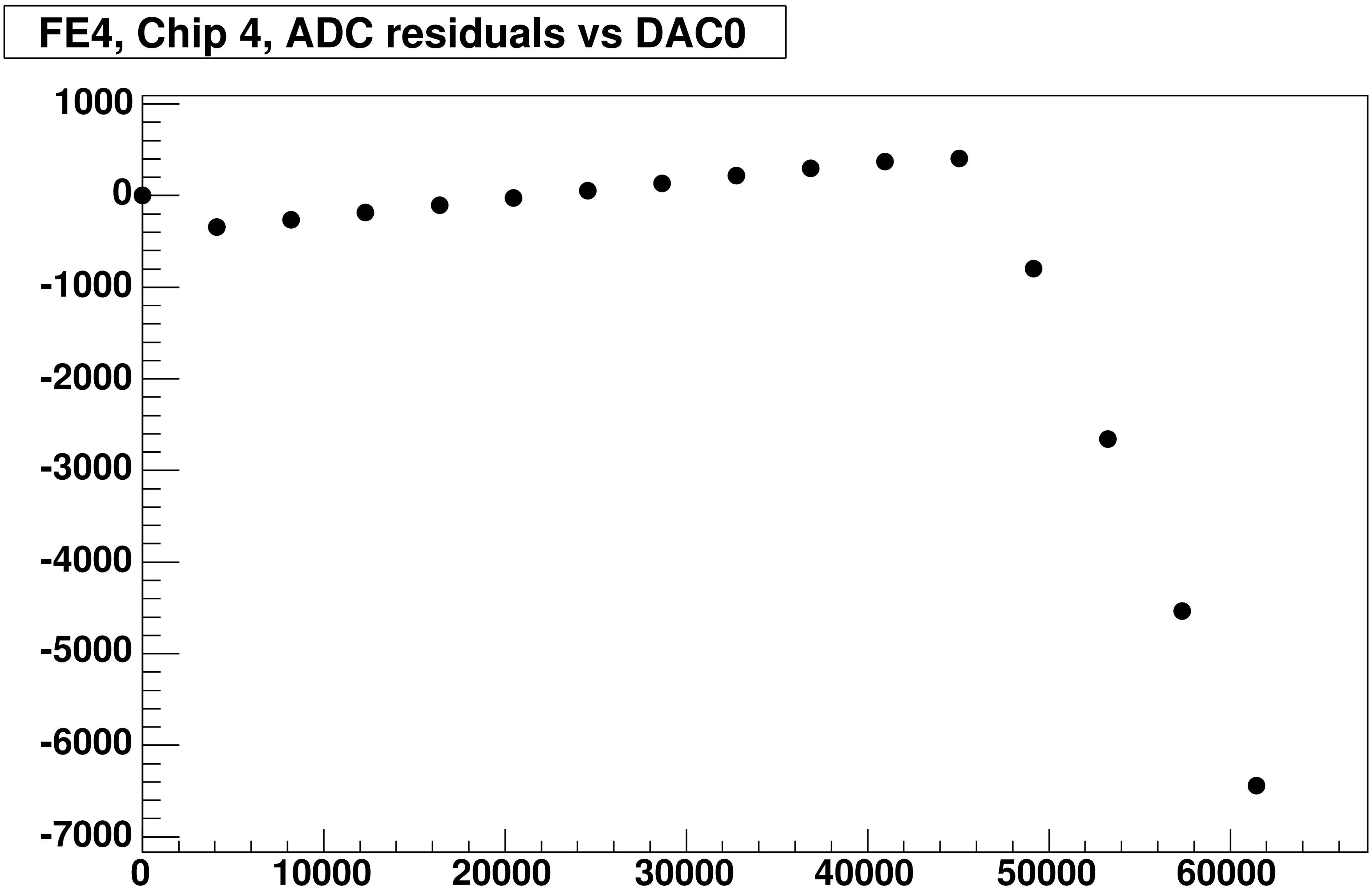


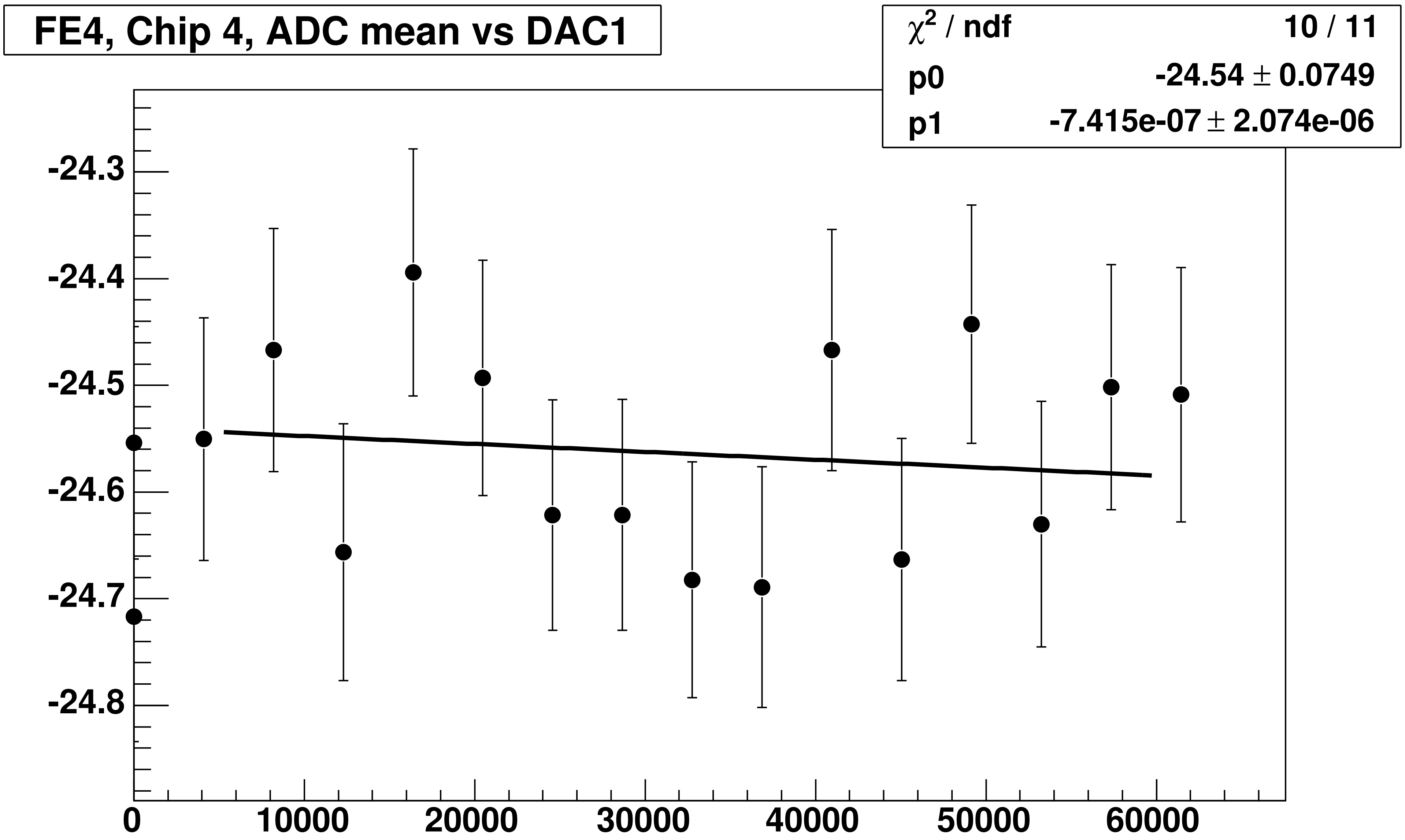
FE4, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

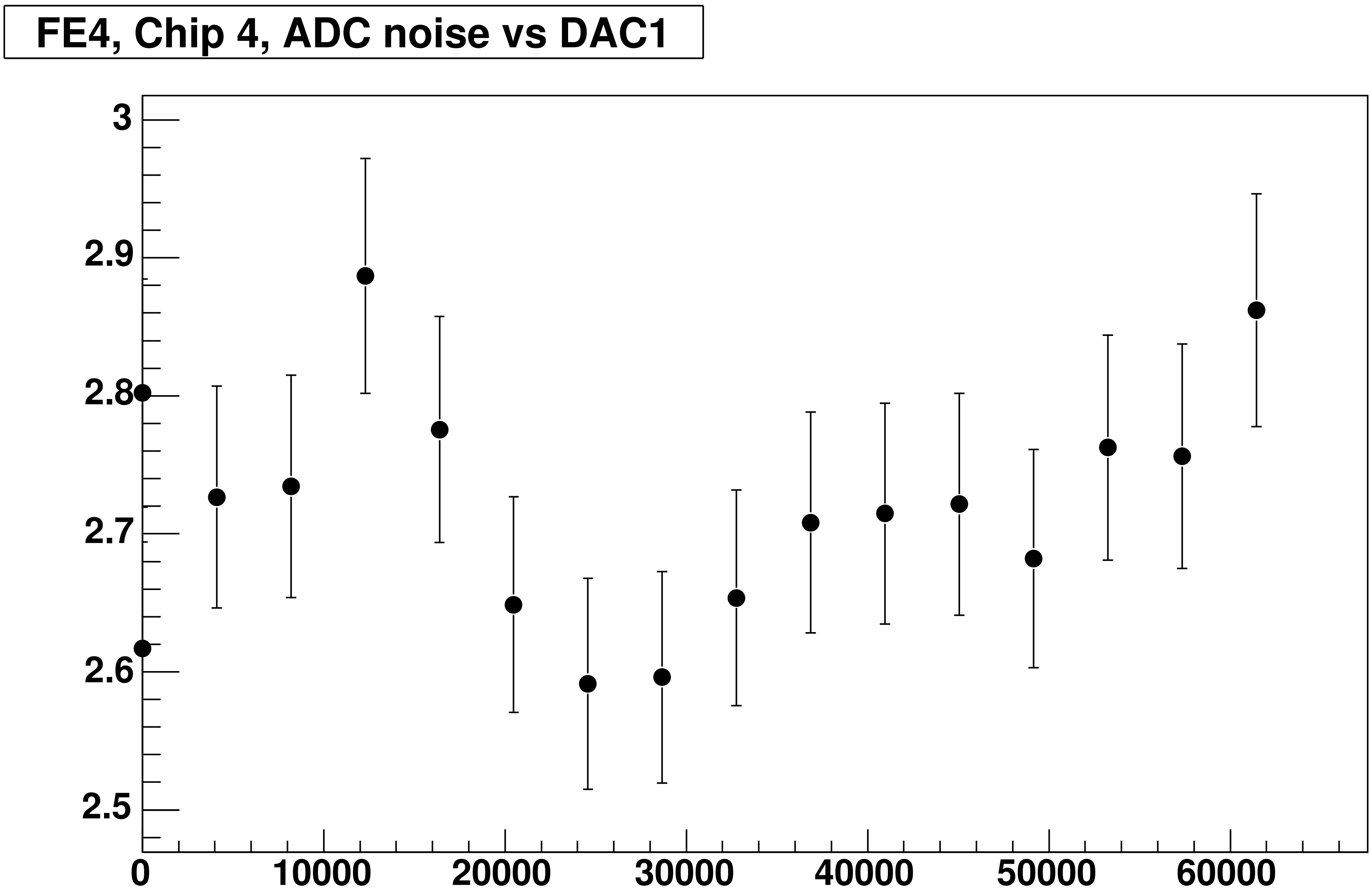


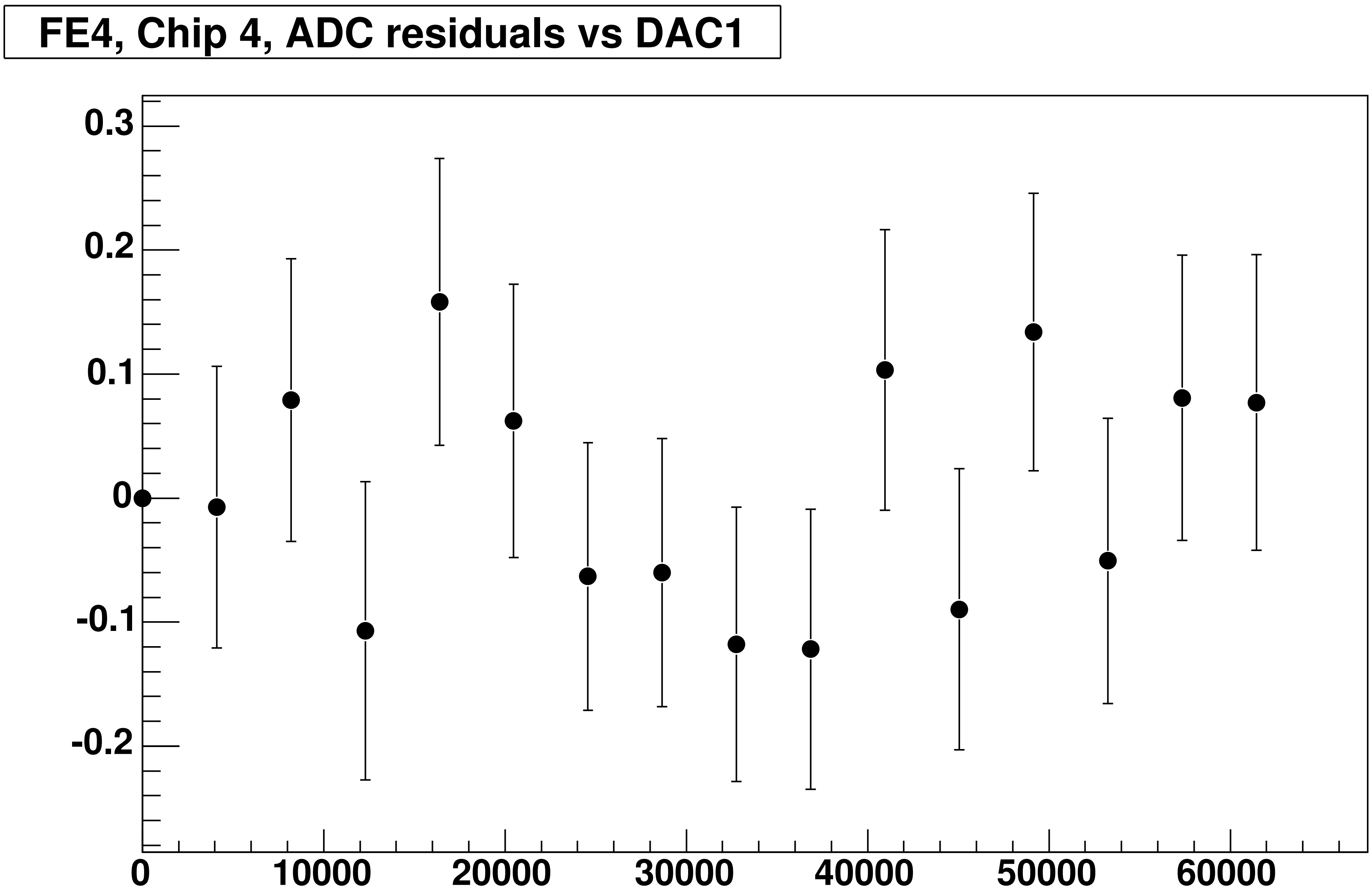
FE4, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2.789e+08 / 11
p0 400 ± 0.08534
p1 0.4565 ± 2.886e-06
0
5000
10000
15000
20000
0
10000
20000
30000
40000
50000
60000

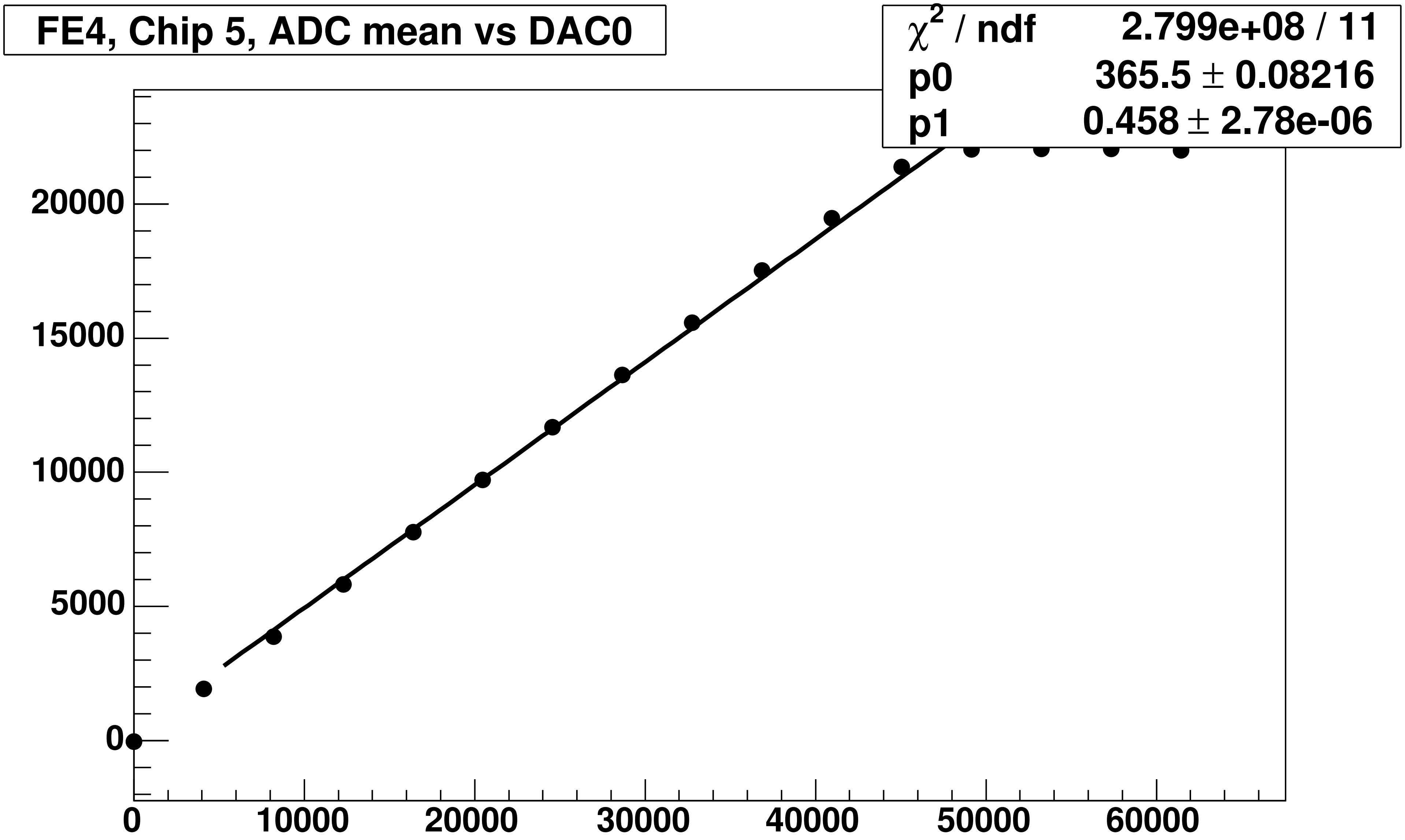

FE4, Chip 4, ADC noise vs DAC0
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 4, ADC residuals vs DAC0
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
10000
20000
30000
40000
50000
60000


FE4, Chip 4, ADC mean vs DAC1
χ² / ndf 10 / 11
p0 -24.54 ± 0.0749
p1 -7.415e-07 ± 2.074e-06
-24.3
-24.4
-24.5
-24.6
-24.7
-24.8
0
10000
20000
30000
40000
50000
60000

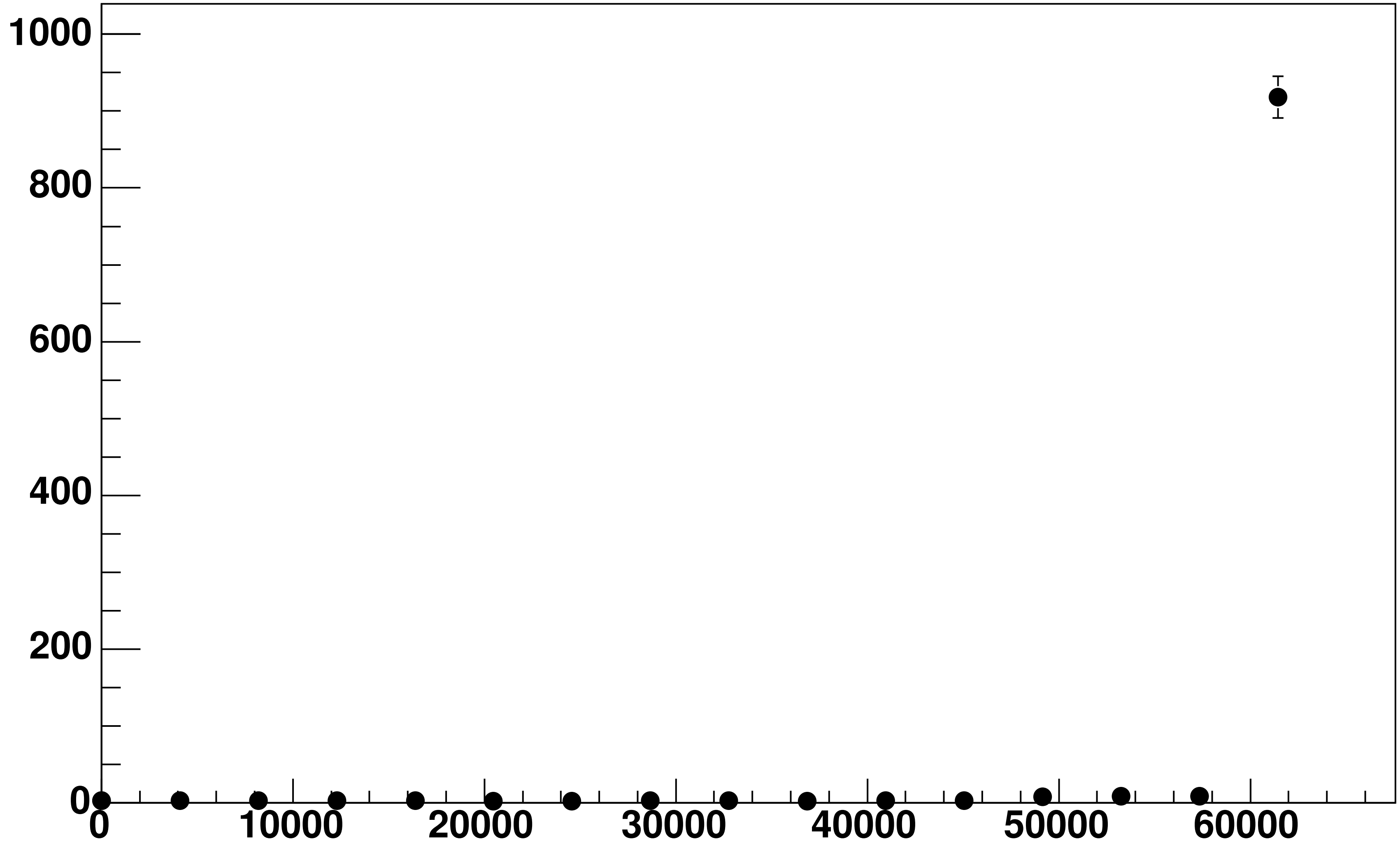

FE4, Chip 4, ADC noise vs DAC1
3
2.9
2.8
2.7
2.6
2.5
0
10000
20000
30000
40000
50000
60000

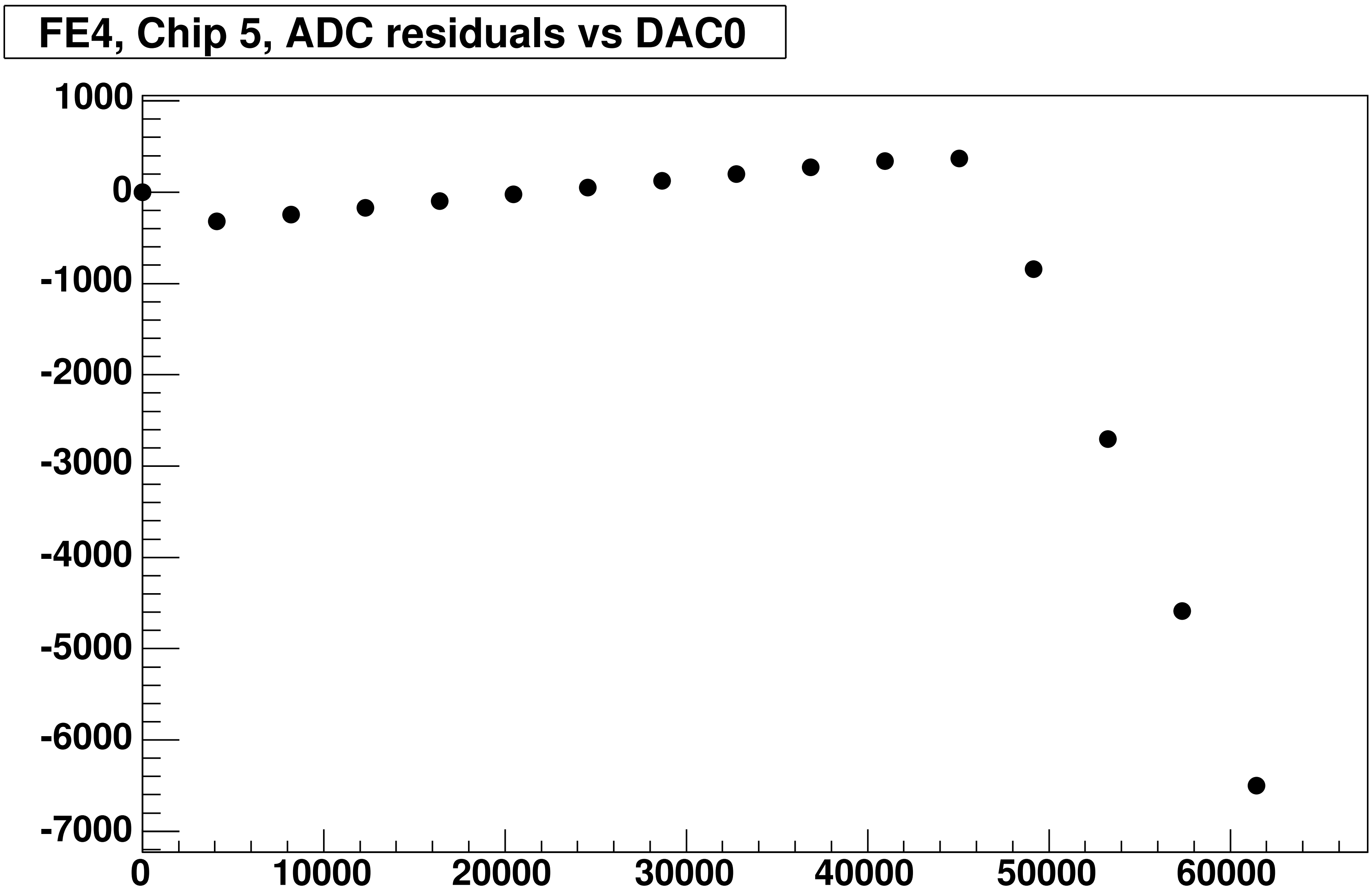

FE4, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

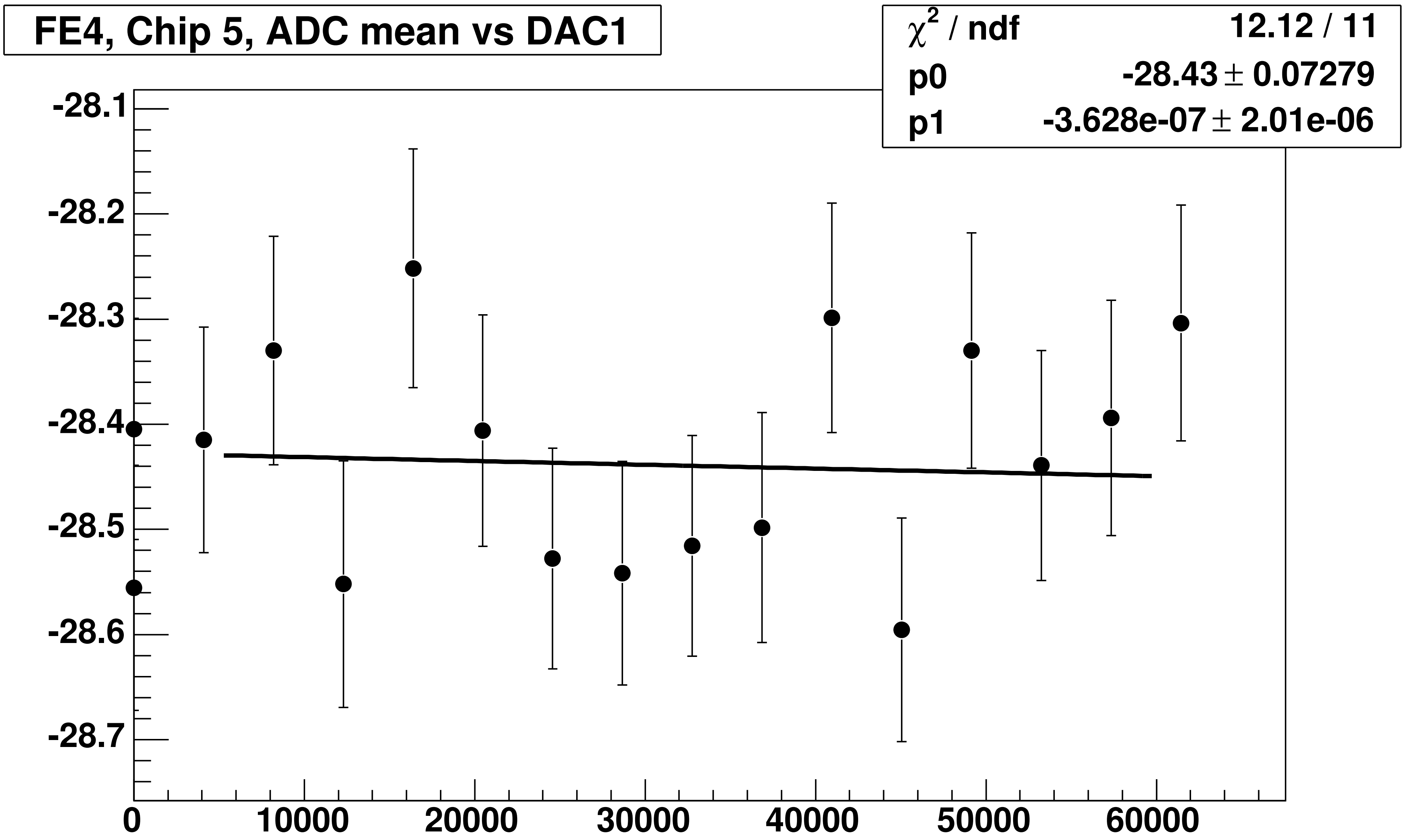


FE4, Chip 5, ADC mean vs DAC0
χ^2 / ndf 2.799e+08 / 11
p0 365.5 ± 0.08216
p1 0.458 ± 2.78e-06
0
5000
10000
15000
20000
0
10000
20000
30000
40000
50000
60000

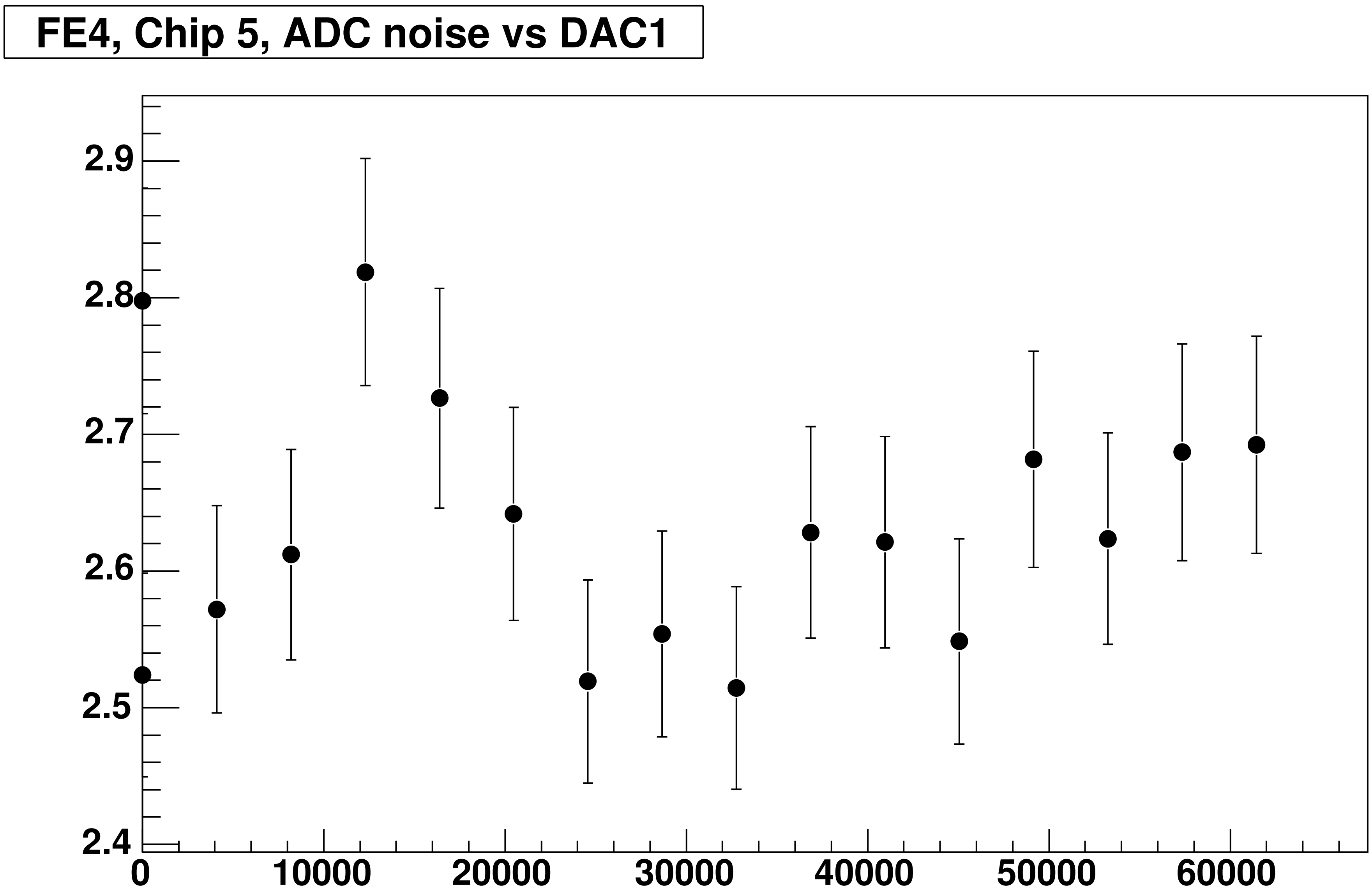
FE4, Chip 5, ADC noise vs DAC0

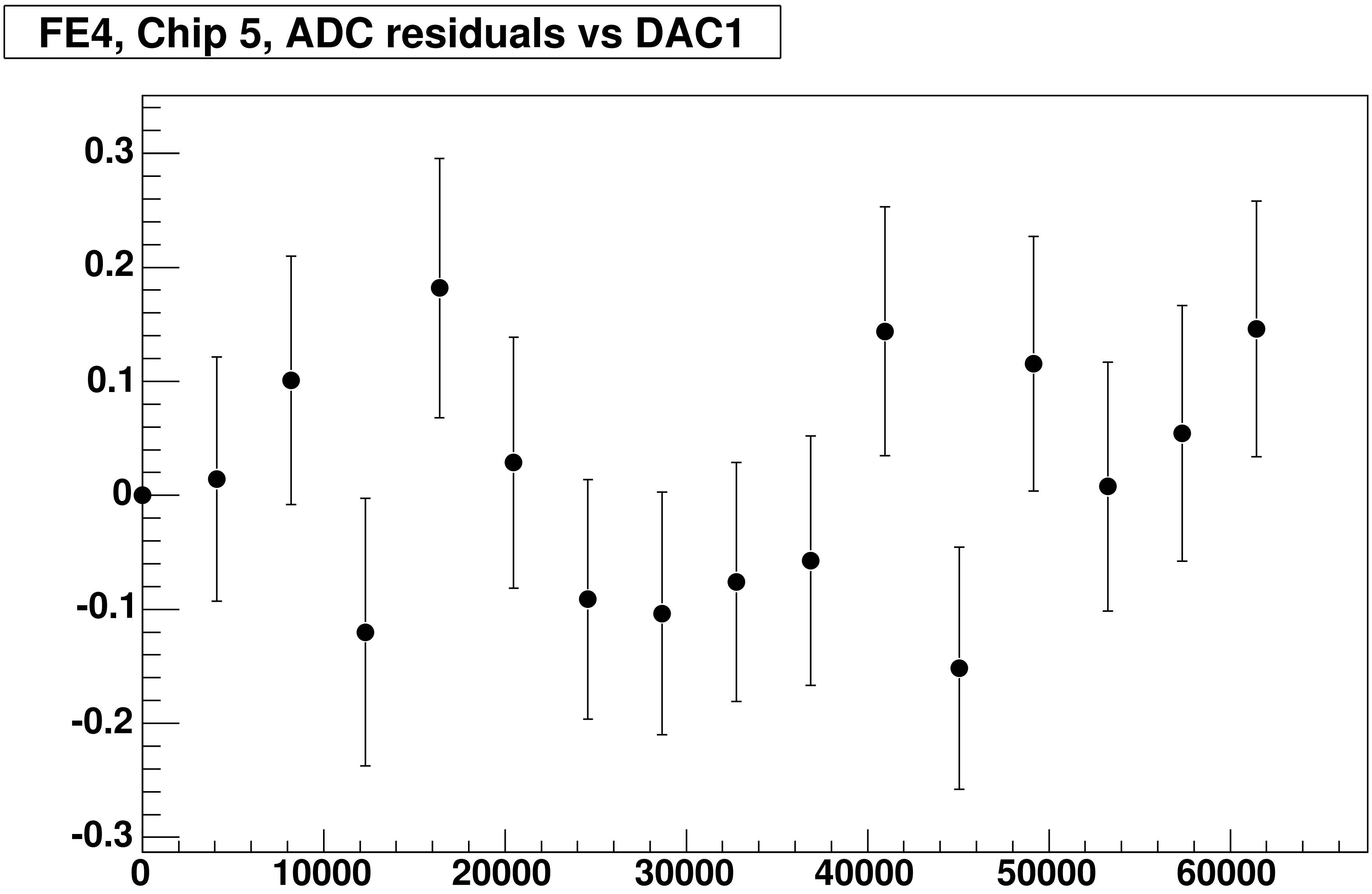


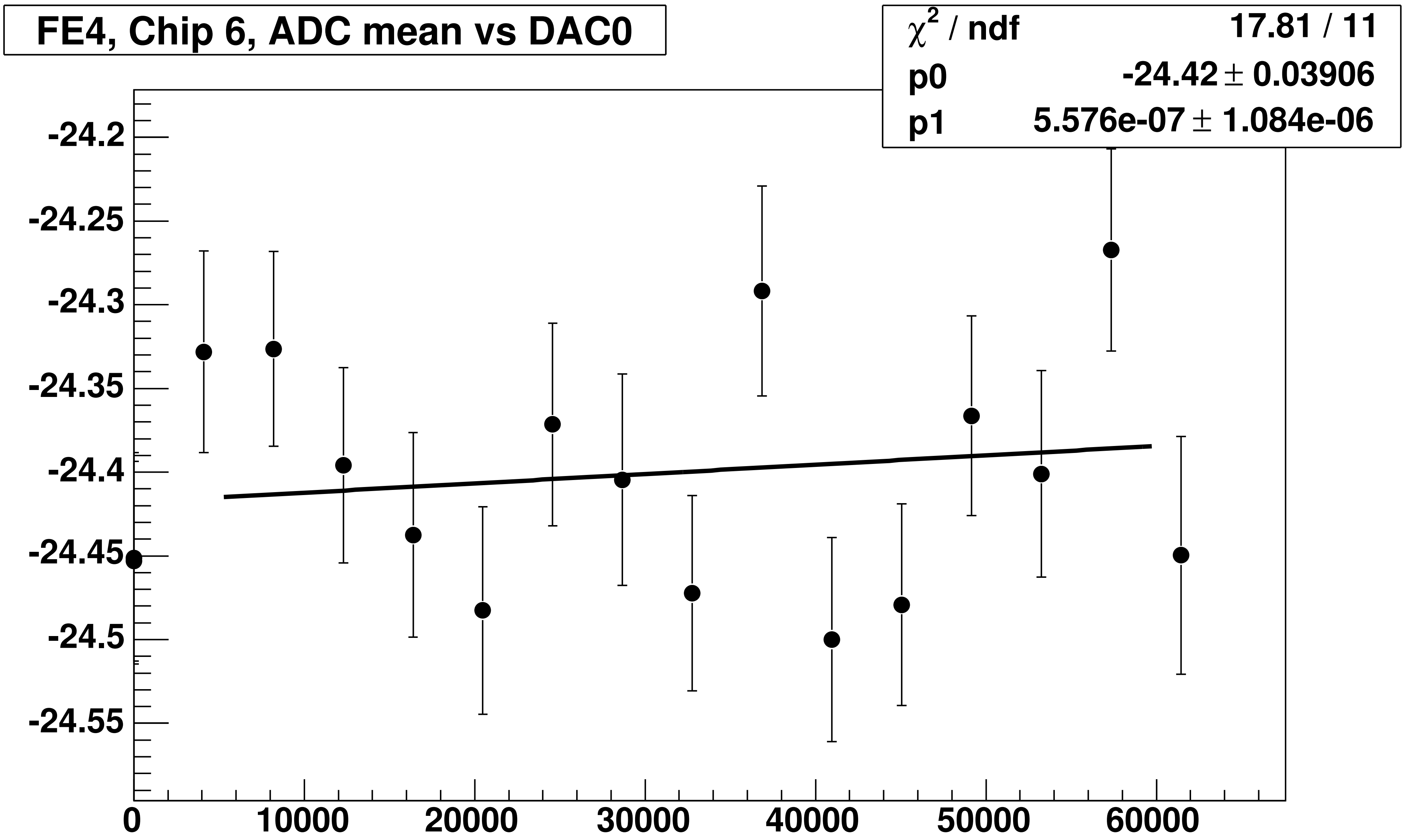

FE4, Chip 5, ADC residuals vs DAC0
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
10000
20000
30000
40000
50000
60000



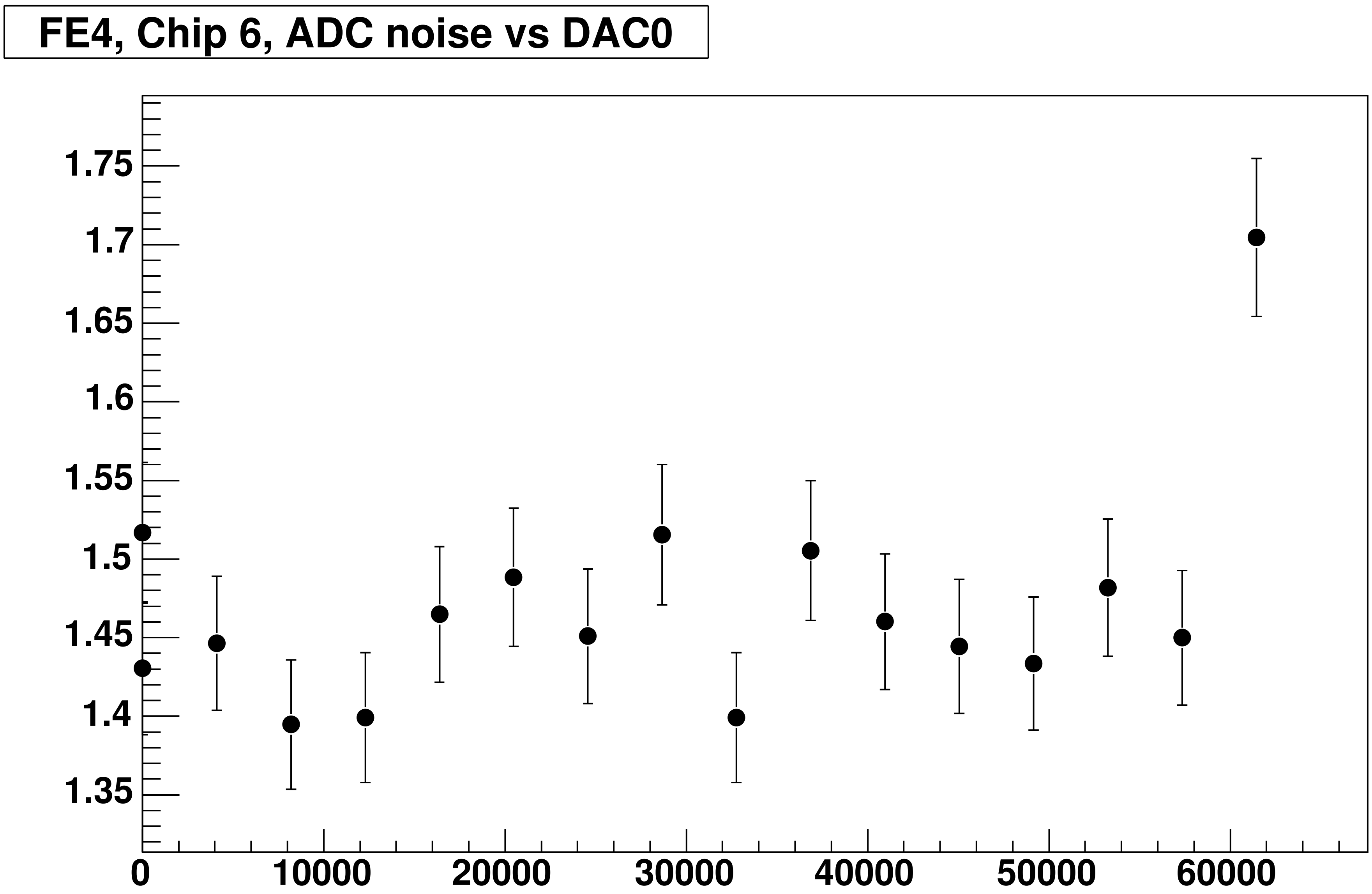
FE4, Chip 5, ADC mean vs DAC1
χ^2 / ndf 12.12 / 11
p0 -28.43 ± 0.07279
p1 -3.628e-07 ± 2.01e-06
-28.1
-28.2
-28.3
-28.4
-28.5
-28.6
-28.7
0
10000
20000
30000
40000
50000
60000

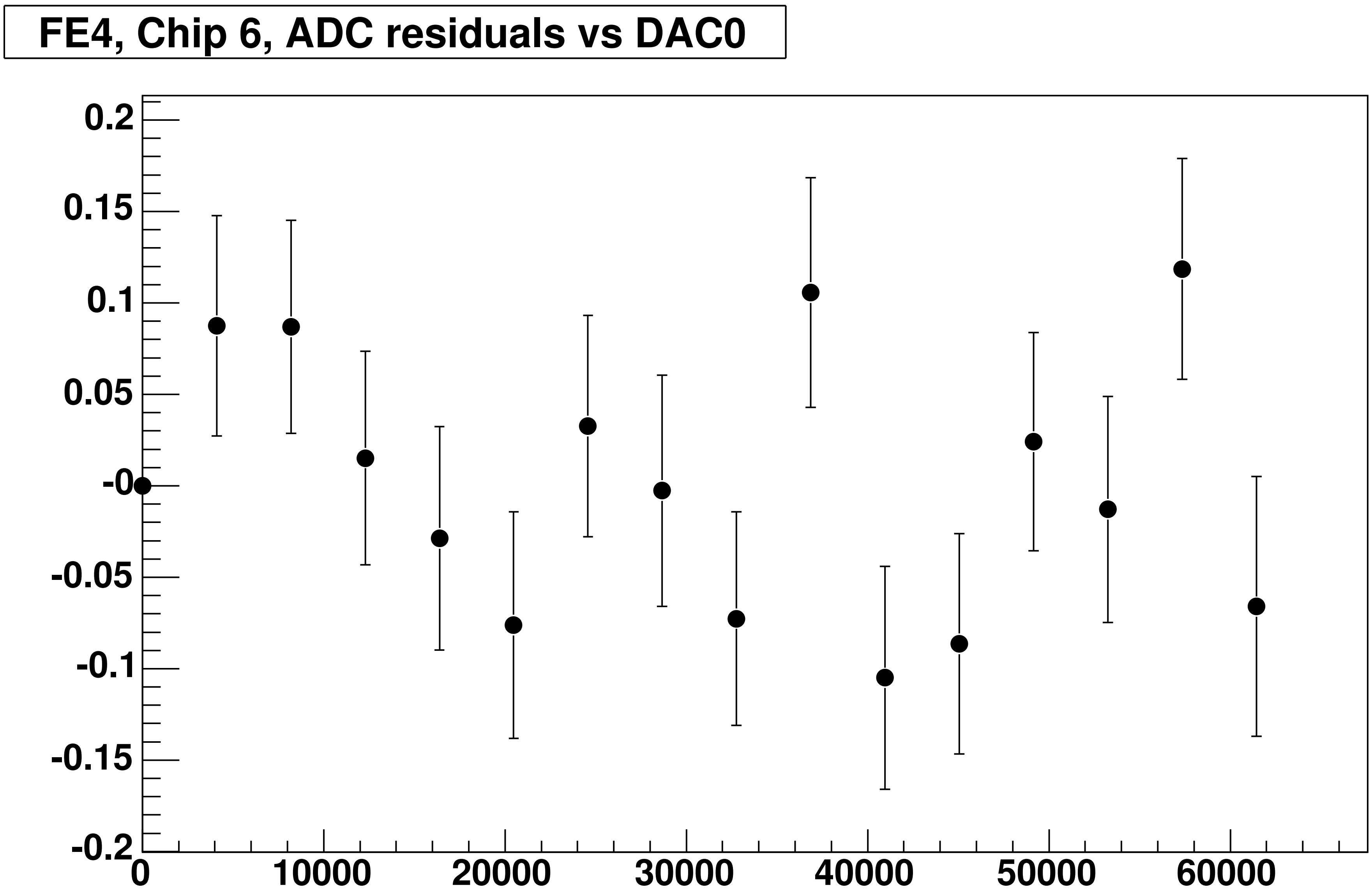

FE4, Chip 5, ADC noise vs DAC1
2.9
2.8
2.7
2.6
2.5
2.4
0
10000
20000
30000
40000
50000
60000

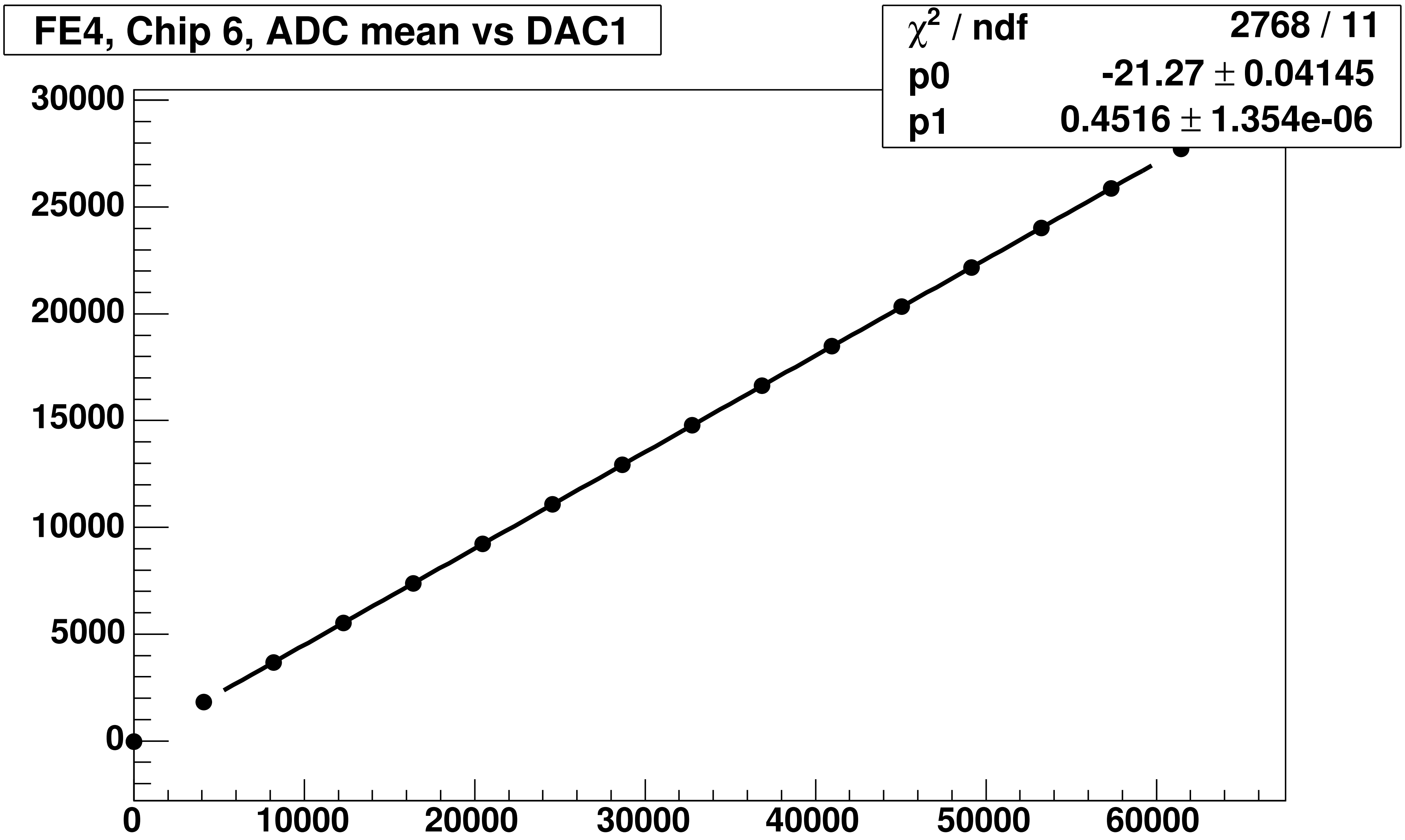

FE4, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

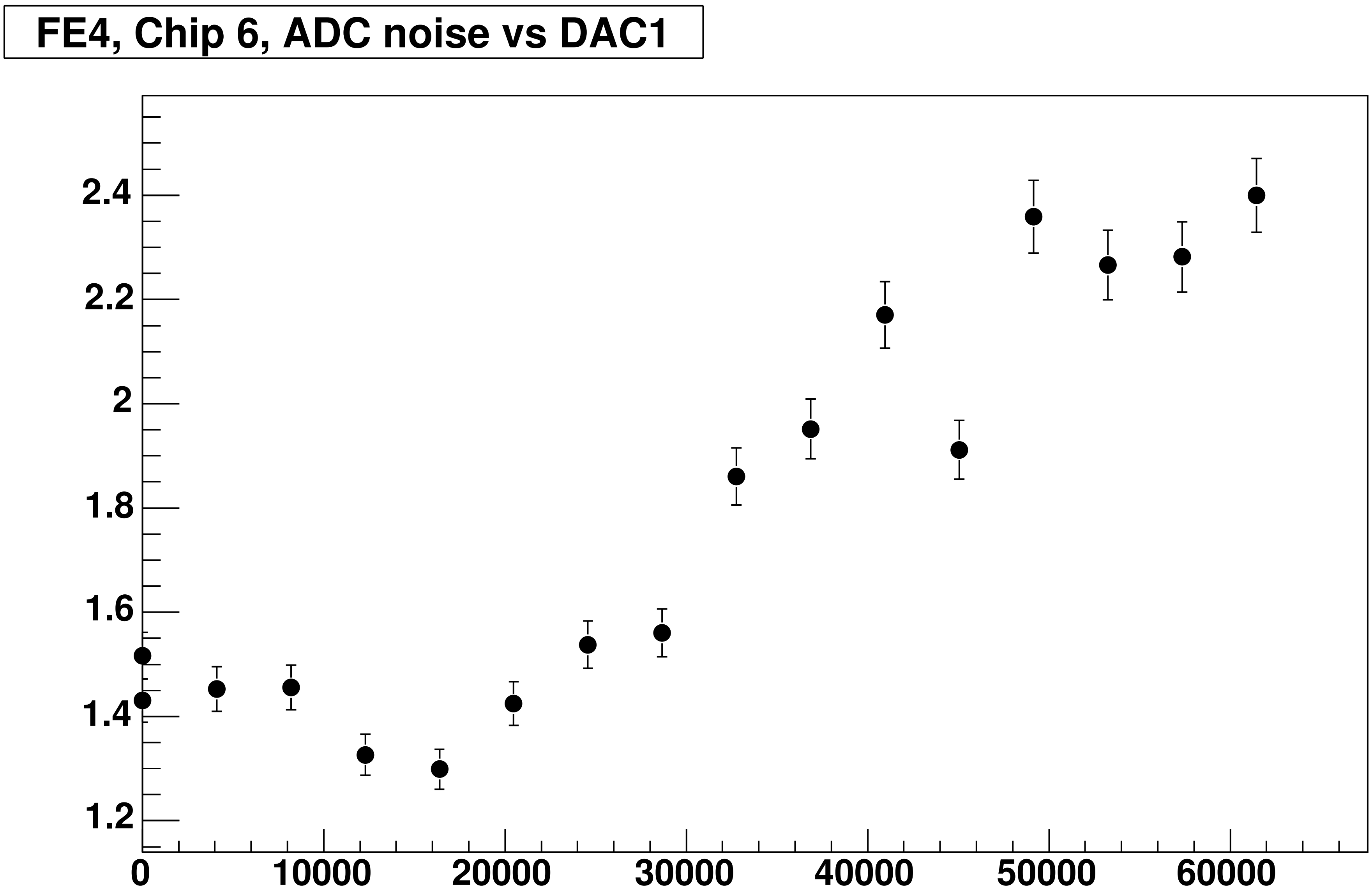


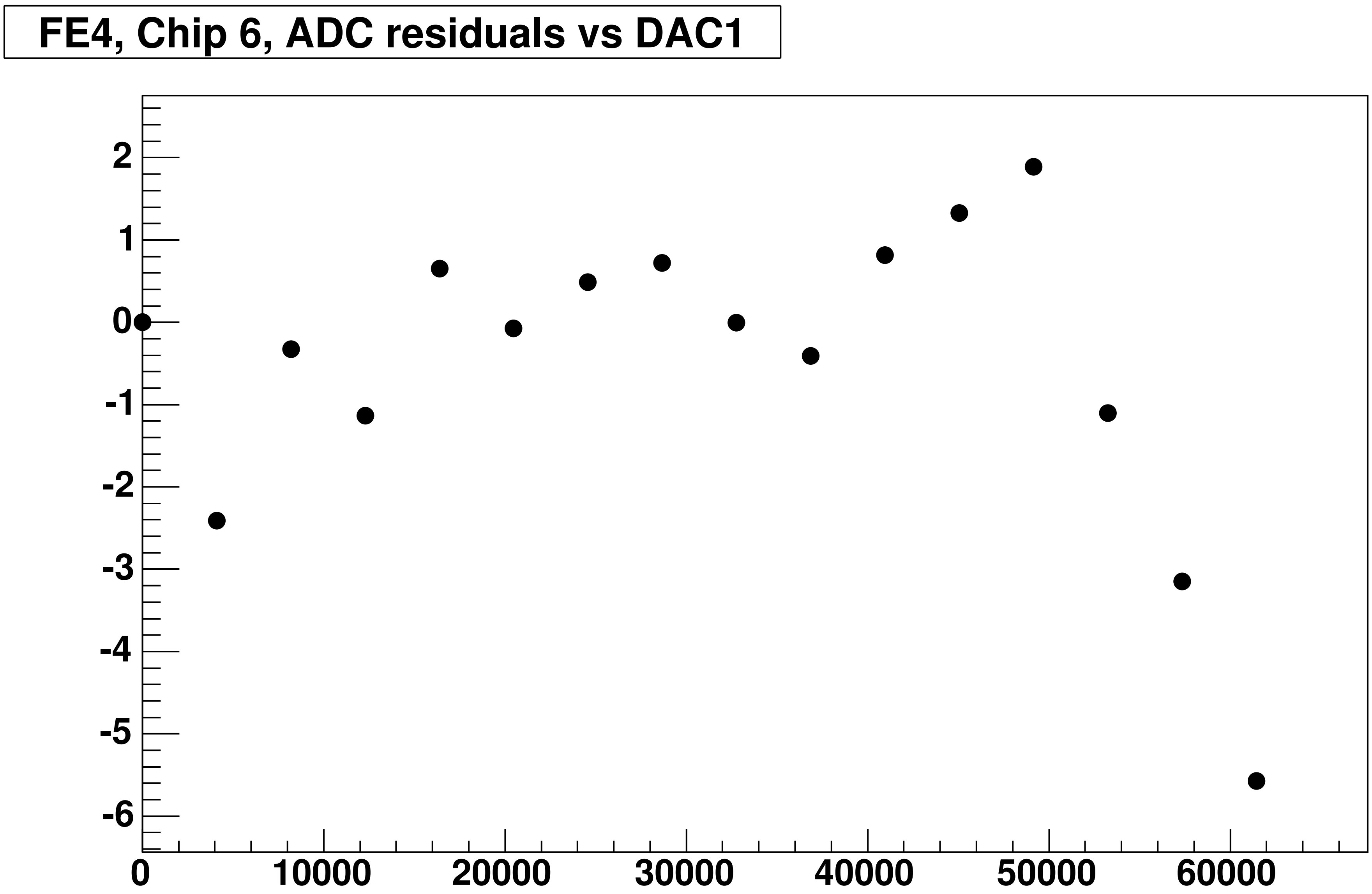
FE4, Chip 6, ADC mean vs DAC0
χ^2 / ndf 17.81 / 11
p0 -24.42 ± 0.03906
p1 5.576e-07 ± 1.084e-06
-24.2
-24.25
-24.3
-24.35
-24.4
-24.45
-24.5
-24.55
0
10000
20000
30000
40000
50000
60000

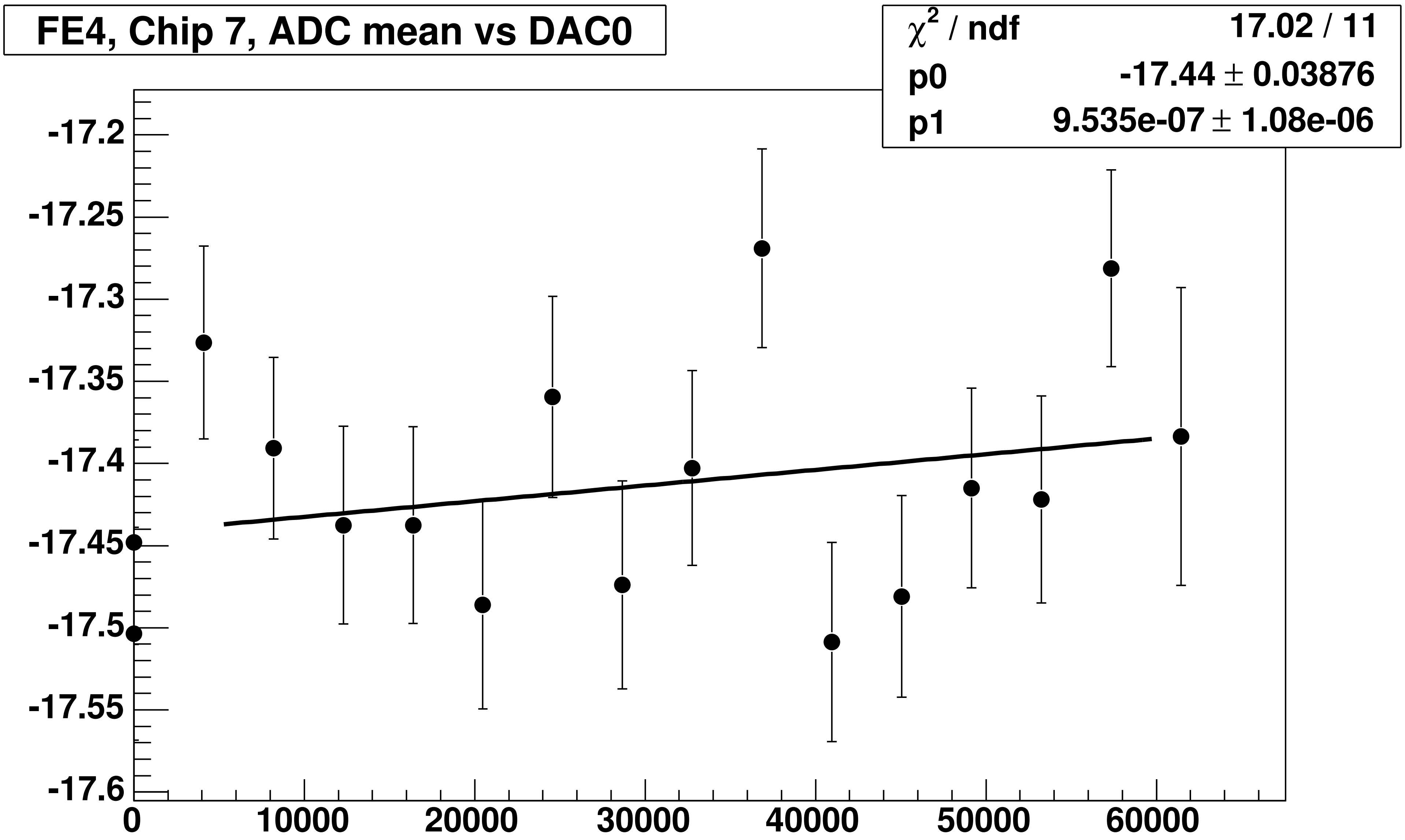

FE4, Chip 6, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE4, Chip 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

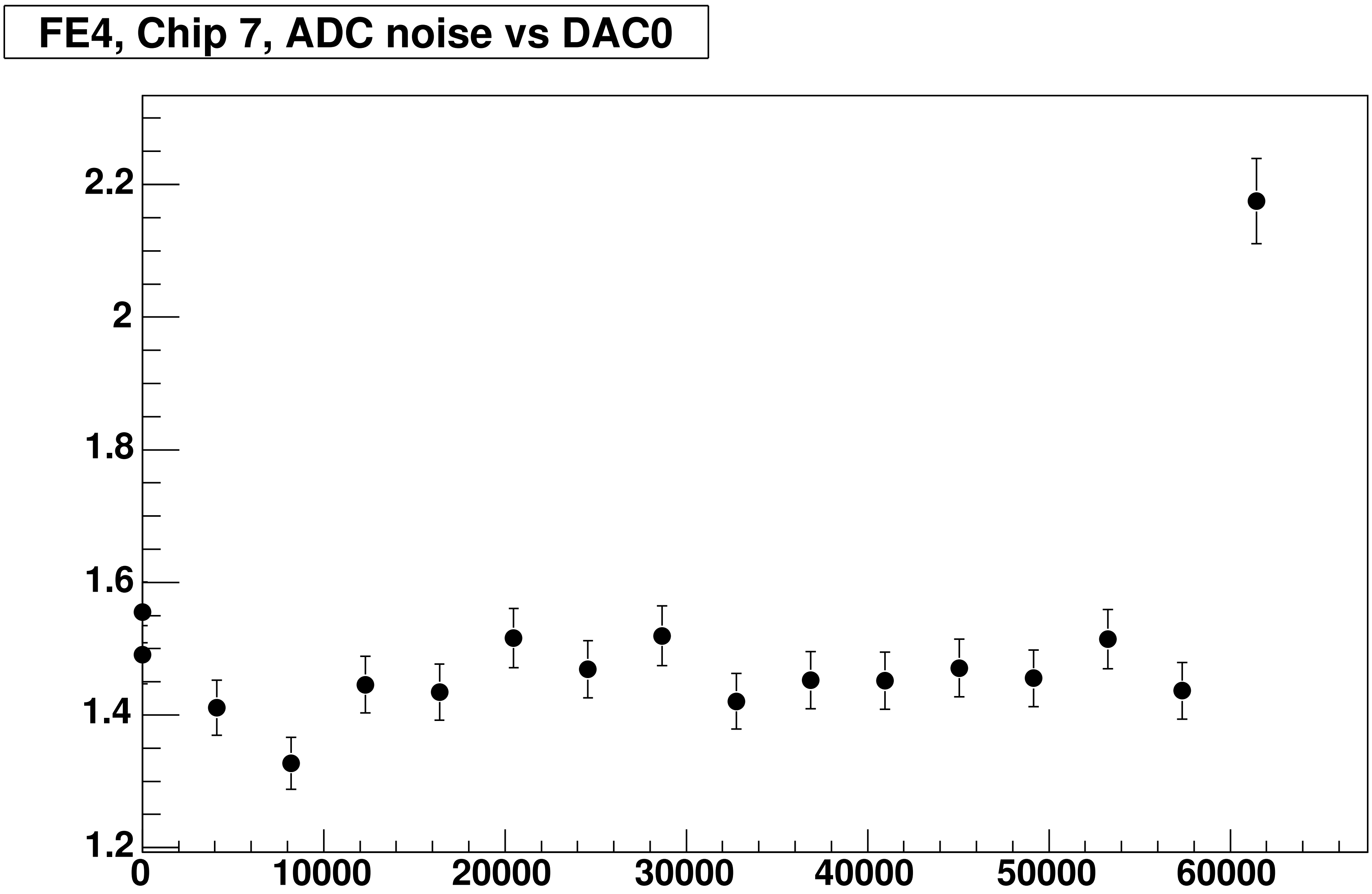

FE4, Chip 6, ADC mean vs DAC1
χ2 / ndf 2768 / 11
p0 -21.27 ± 0.04145
p1 0.4516 ± 1.354e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

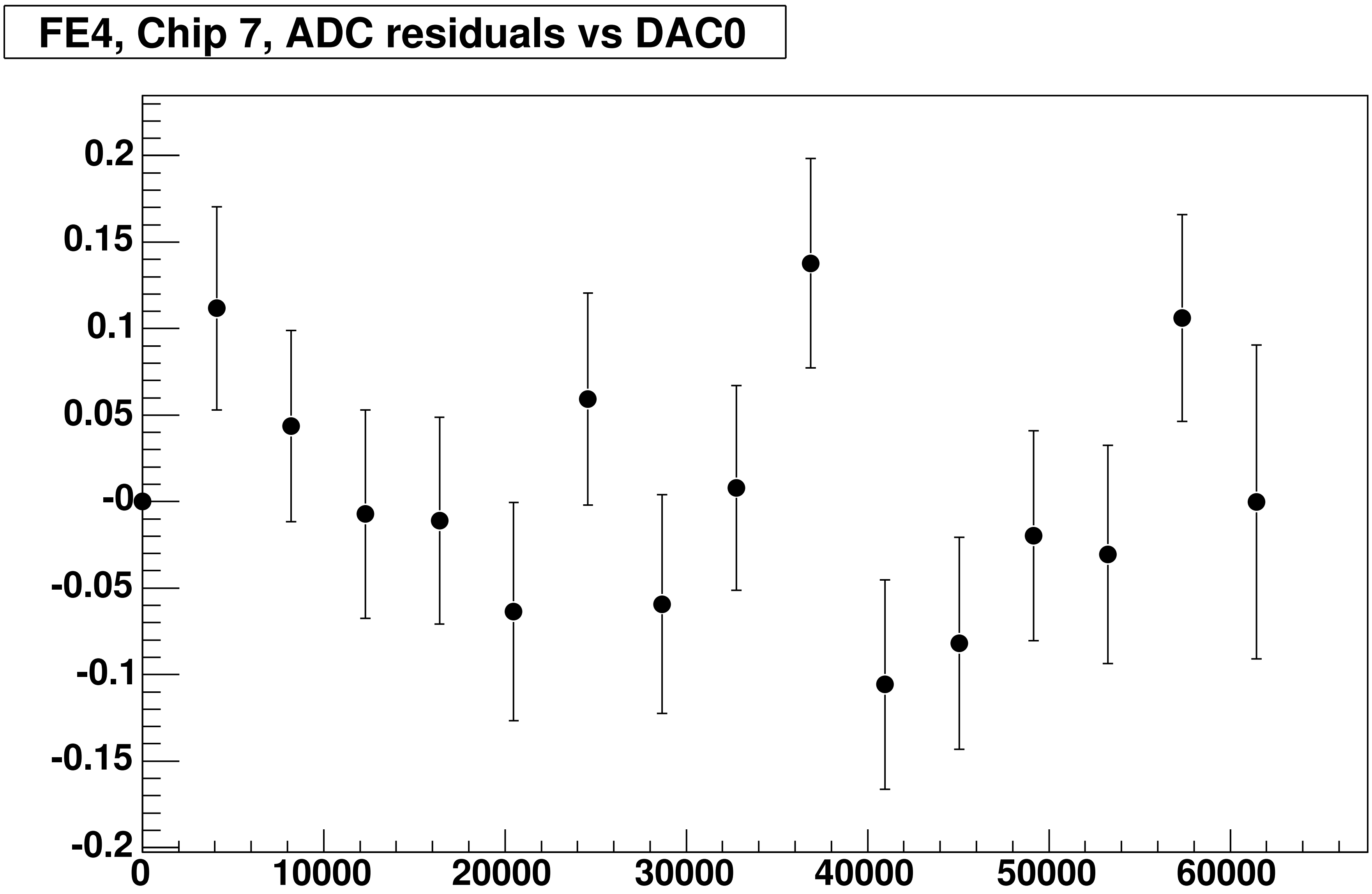

FE4, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

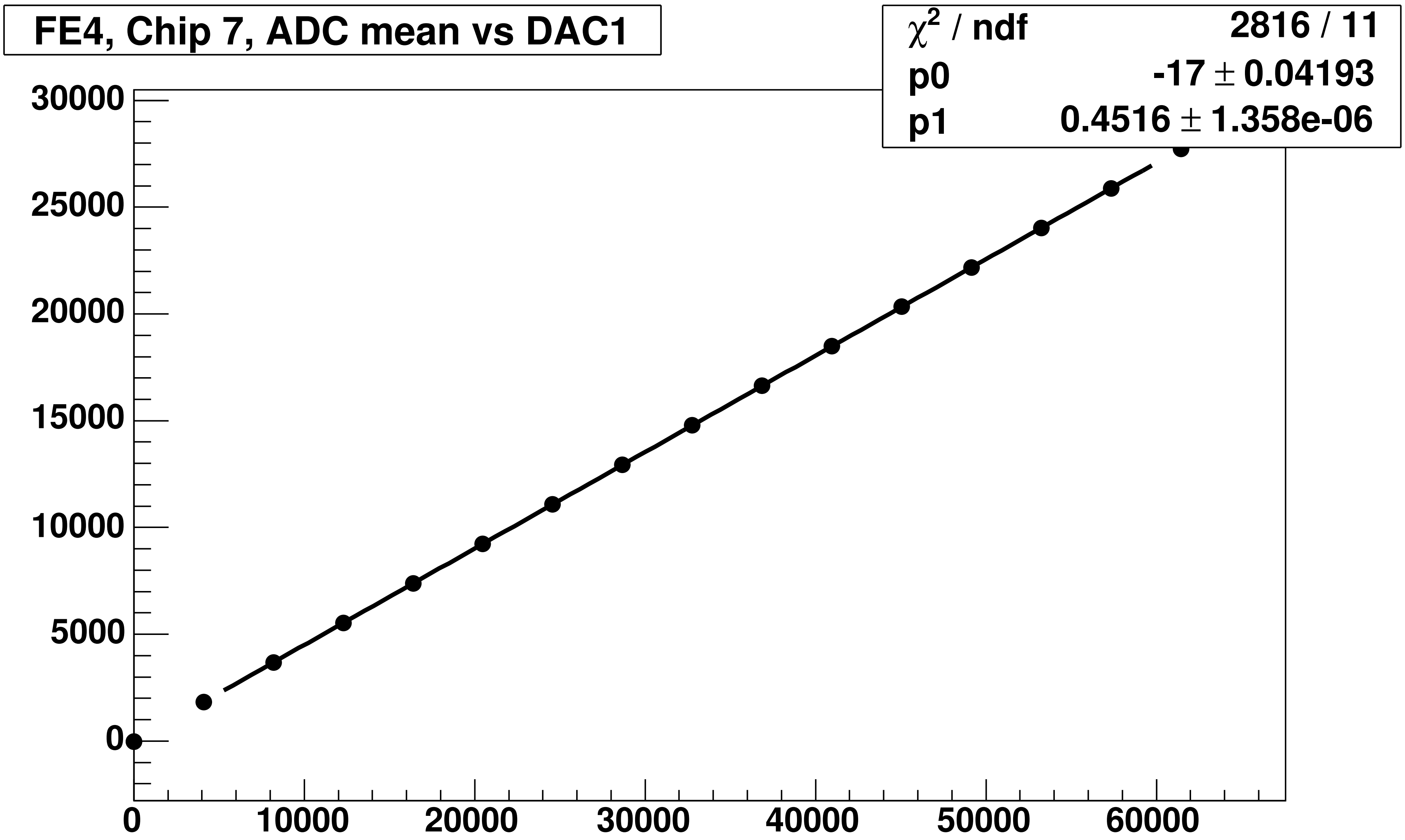

FE4, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



FE4, Chip 7, ADC mean vs DAC0
χ^2 / ndf 17.02 / 11
p0 -17.44 ± 0.03876
p1 9.535e-07 ± 1.08e-06
-17.2
-17.25
-17.3
-17.35
-17.4
-17.45
-17.5
-17.55
-17.6
0
10000
20000
30000
40000
50000
60000

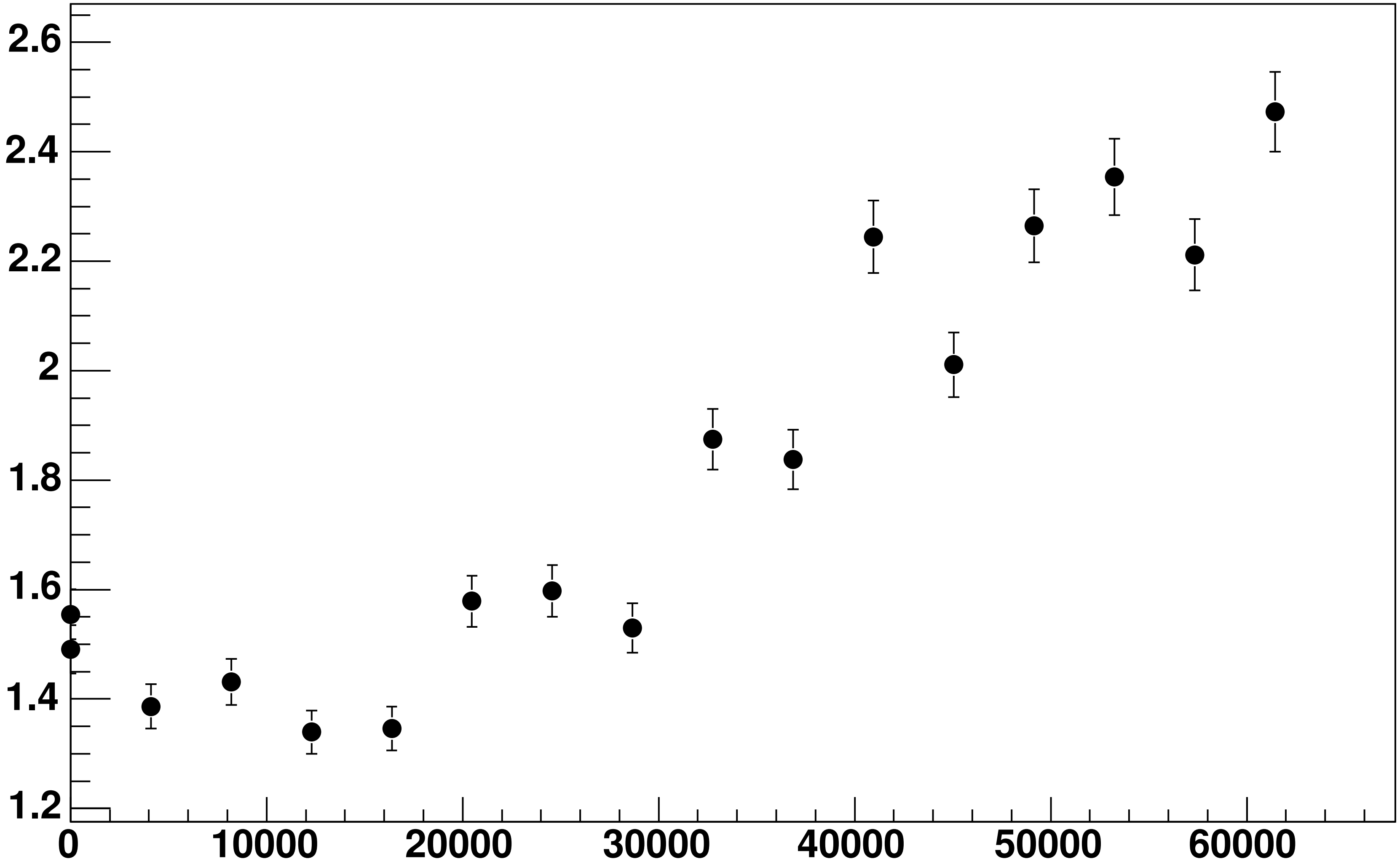

FE4, Chip 7, ADC noise vs DAC0
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

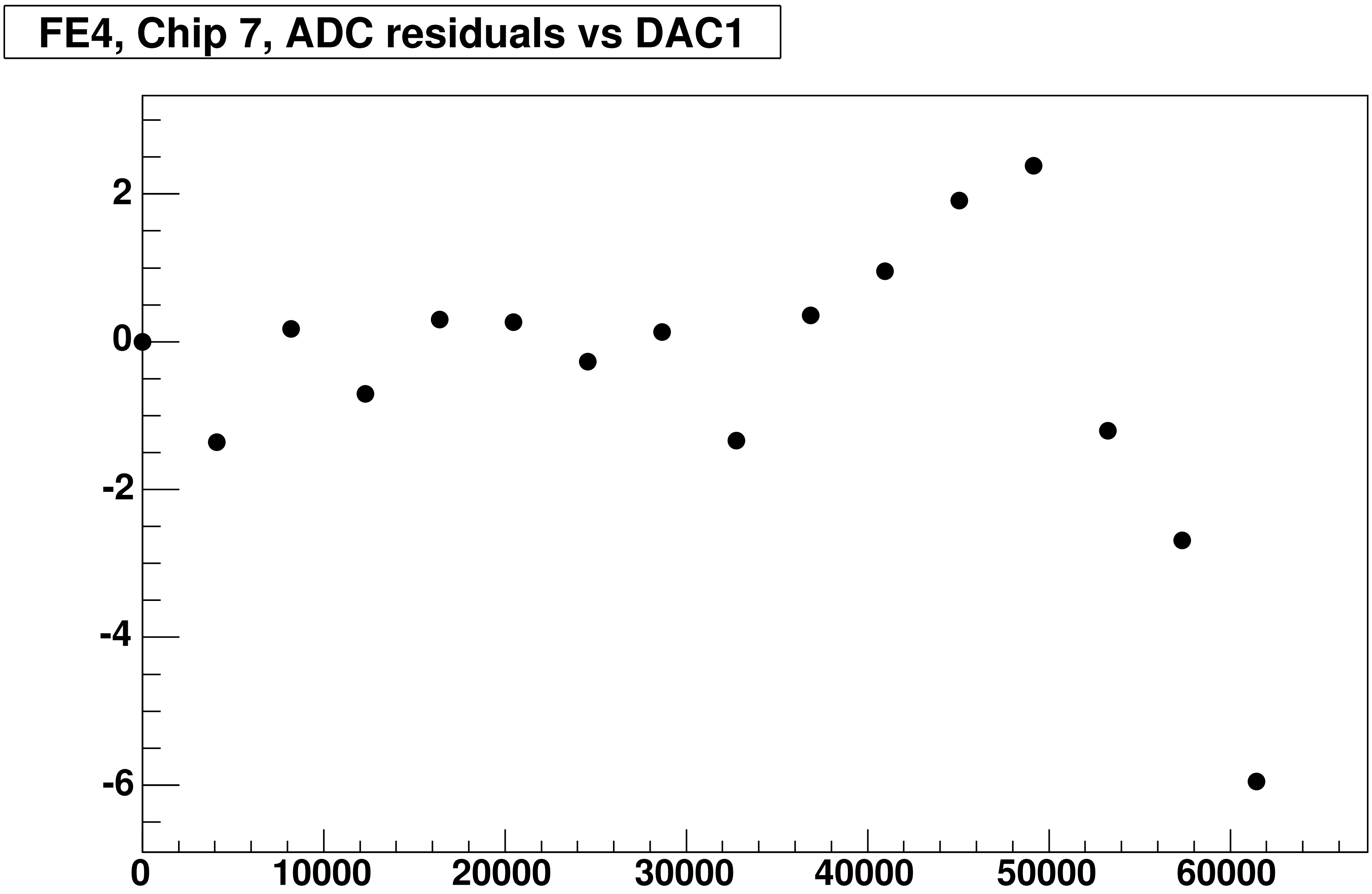

FE4, Chip 7, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

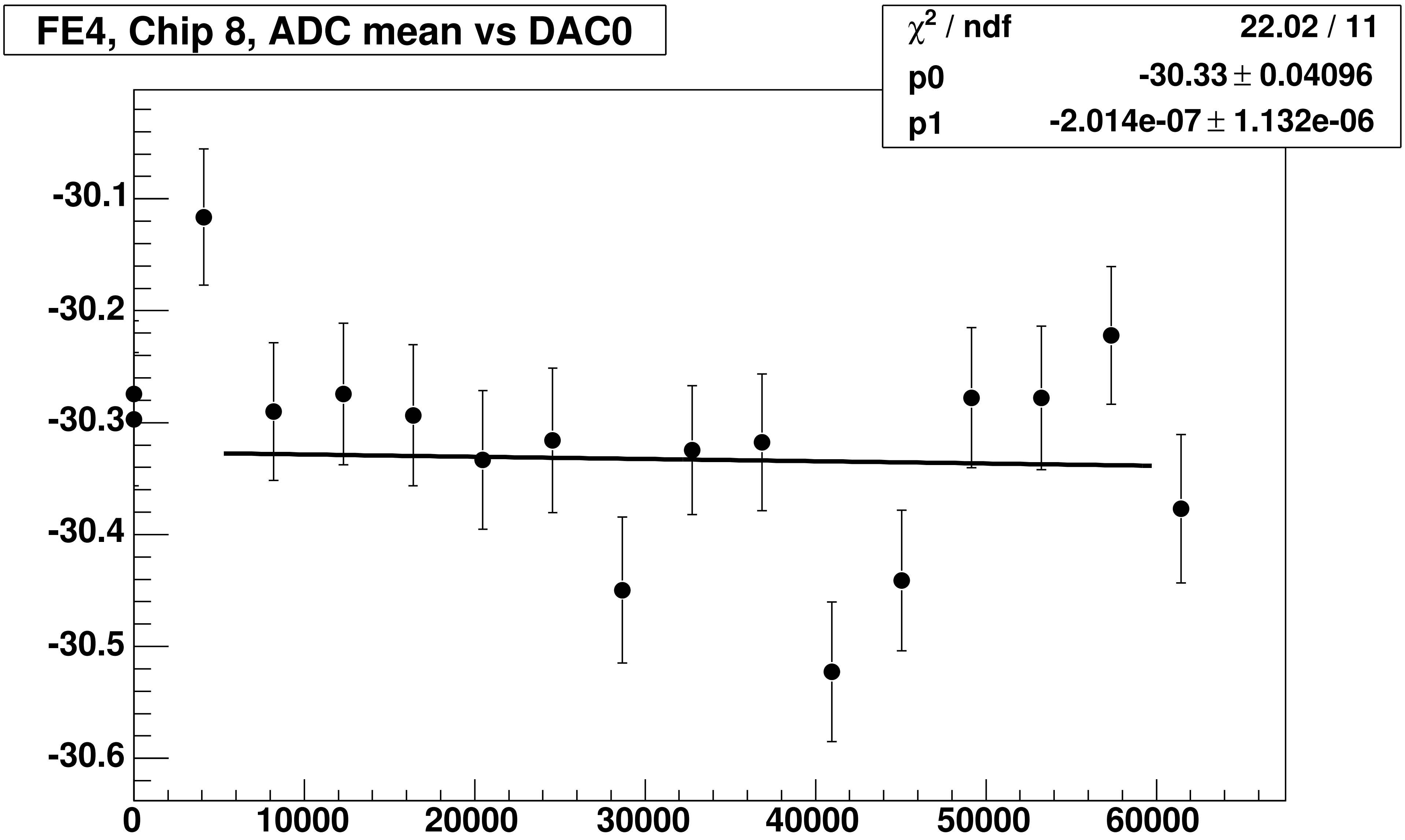


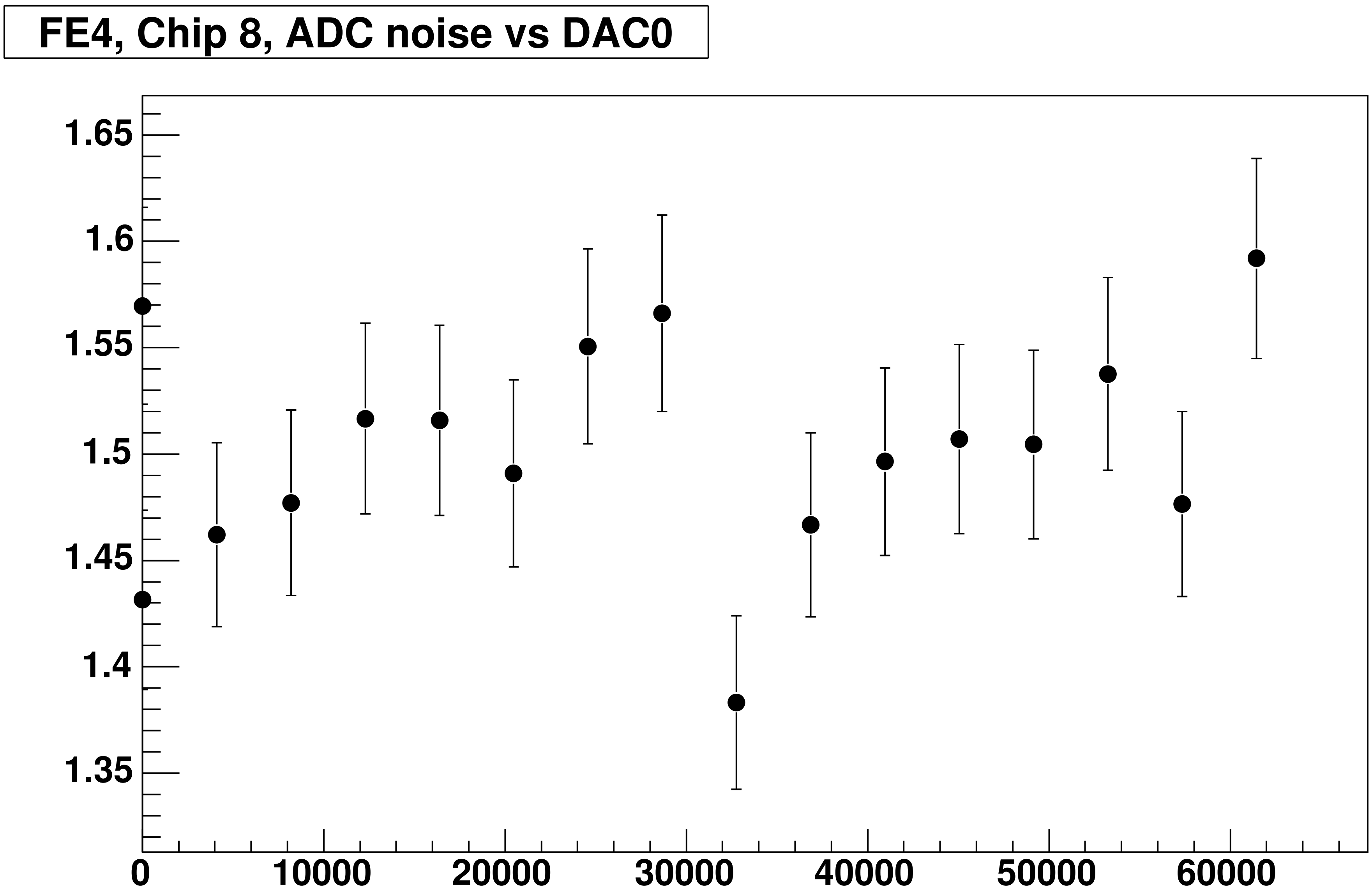
FE4, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2816 / 11
p0 -17 ± 0.04193
p1 0.4516 ± 1.358e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

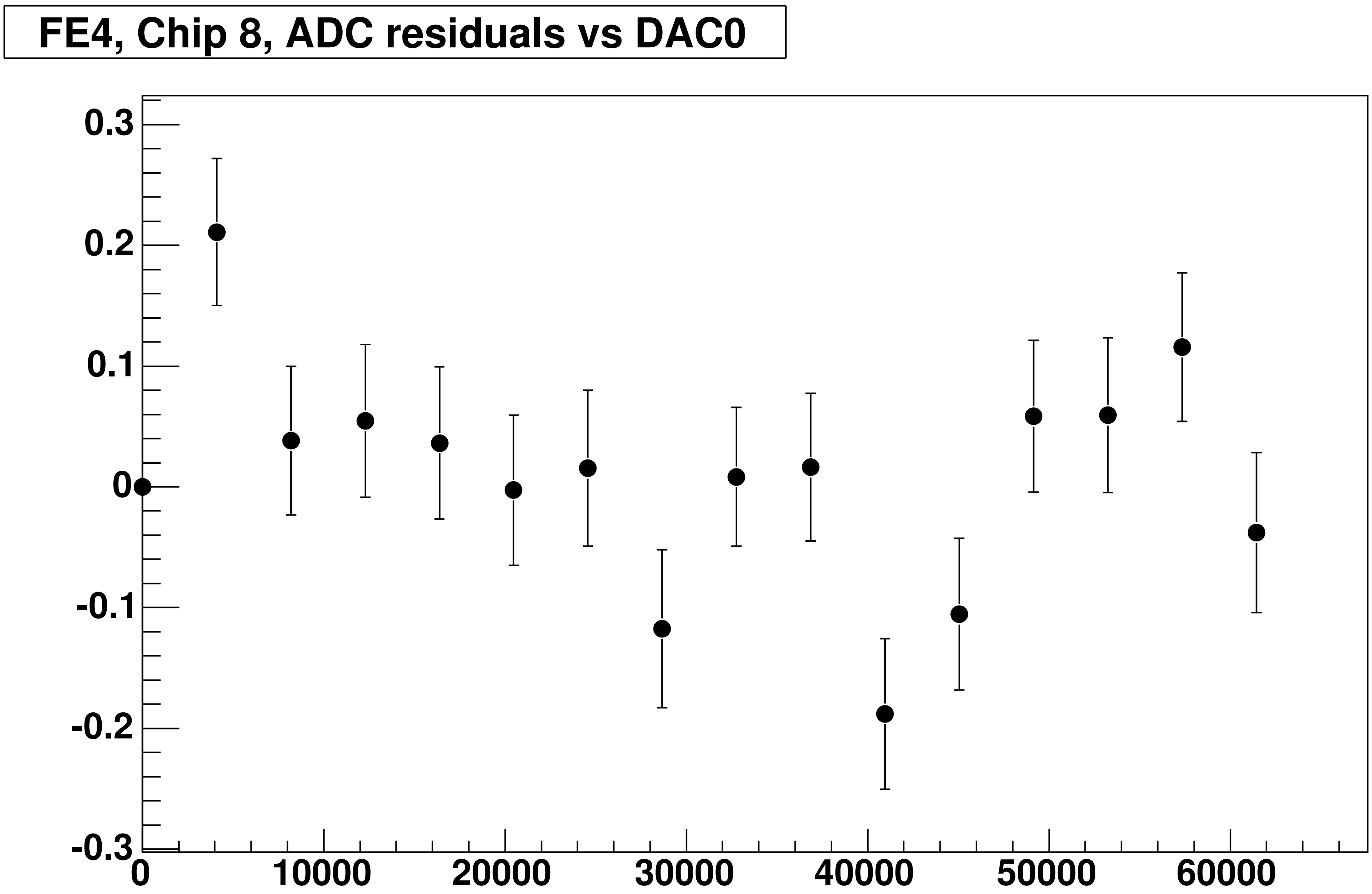
FE4, Chip 7, ADC noise vs DAC1



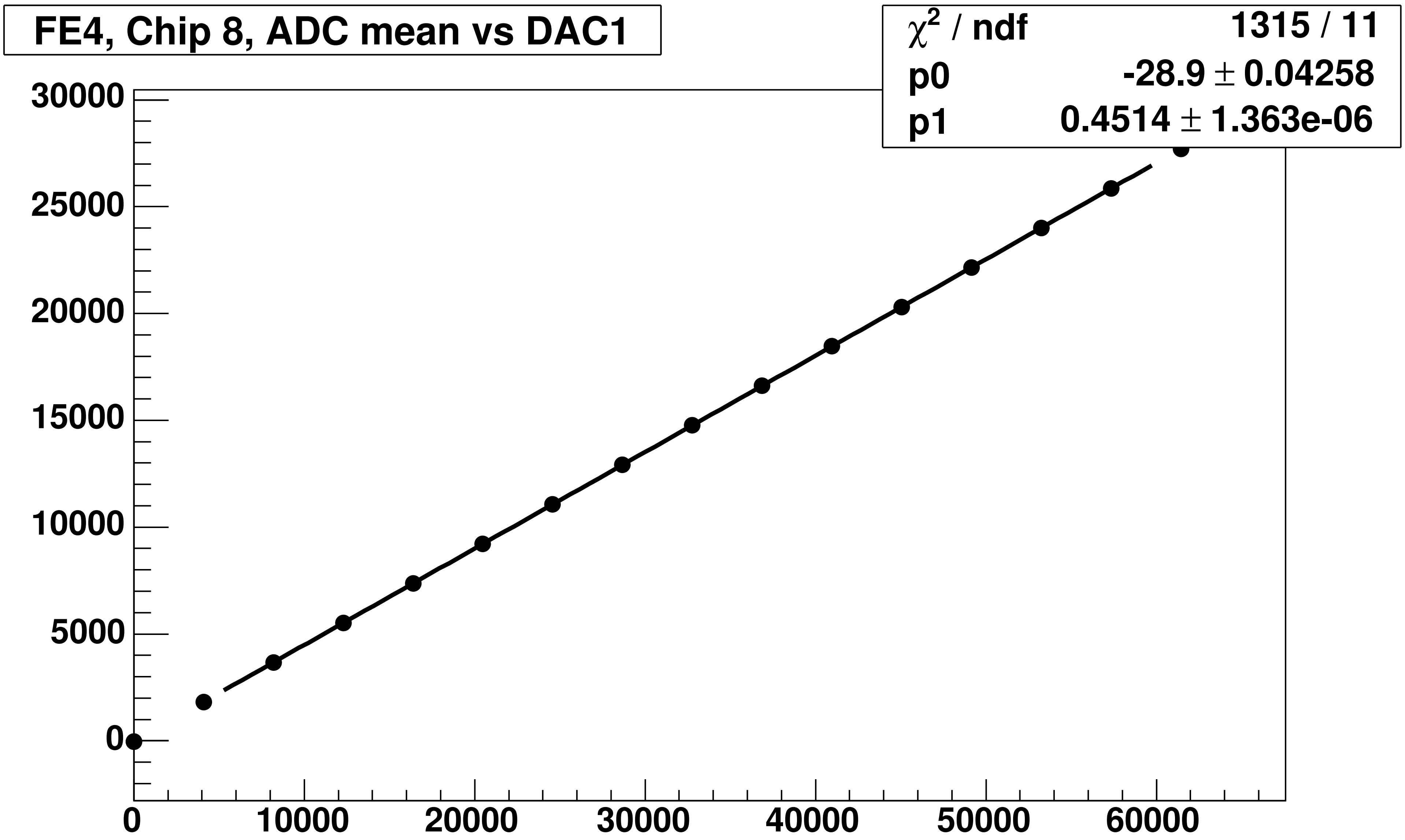

FE4, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000


FE4, Chip 8, ADC mean vs DAC0
χ^2 / ndf 22.02 / 11
p0 -30.33 ± 0.04096
p1 -2.014e-07 ± 1.132e-06
-30.1
-30.2
-30.3
-30.4
-30.5
-30.6
0
10000
20000
30000
40000
50000
60000

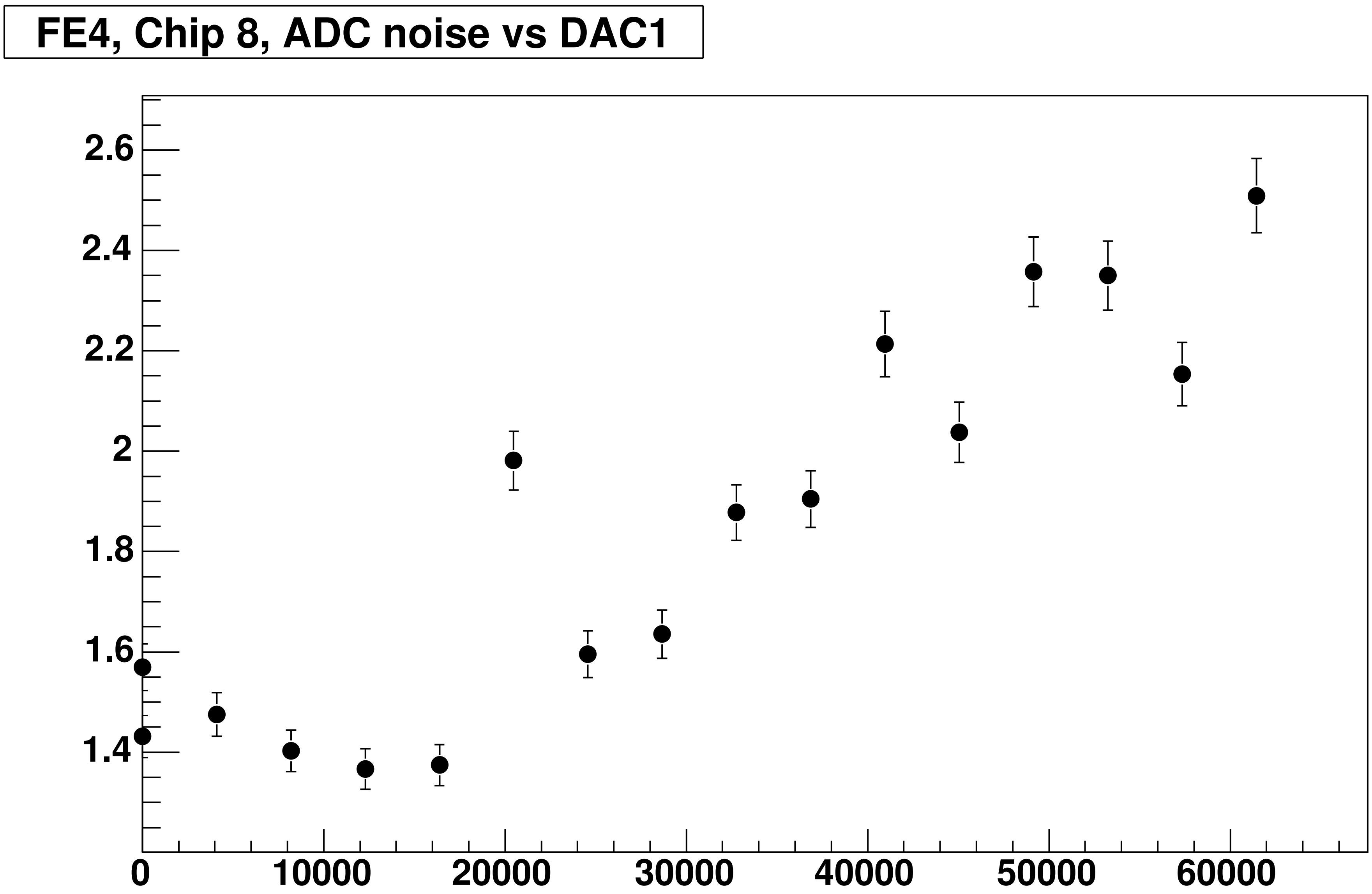

FE4, Chip 8, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

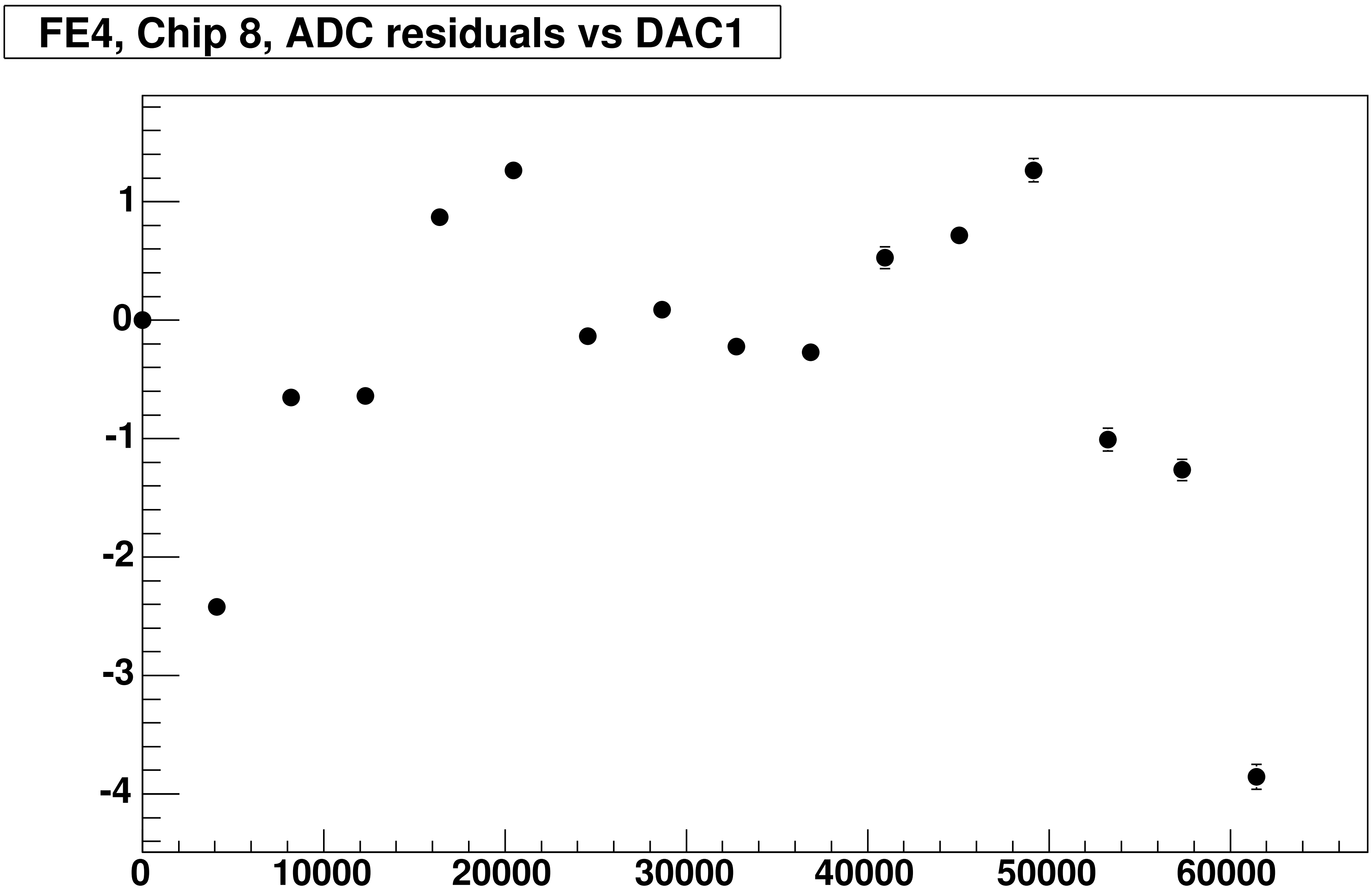


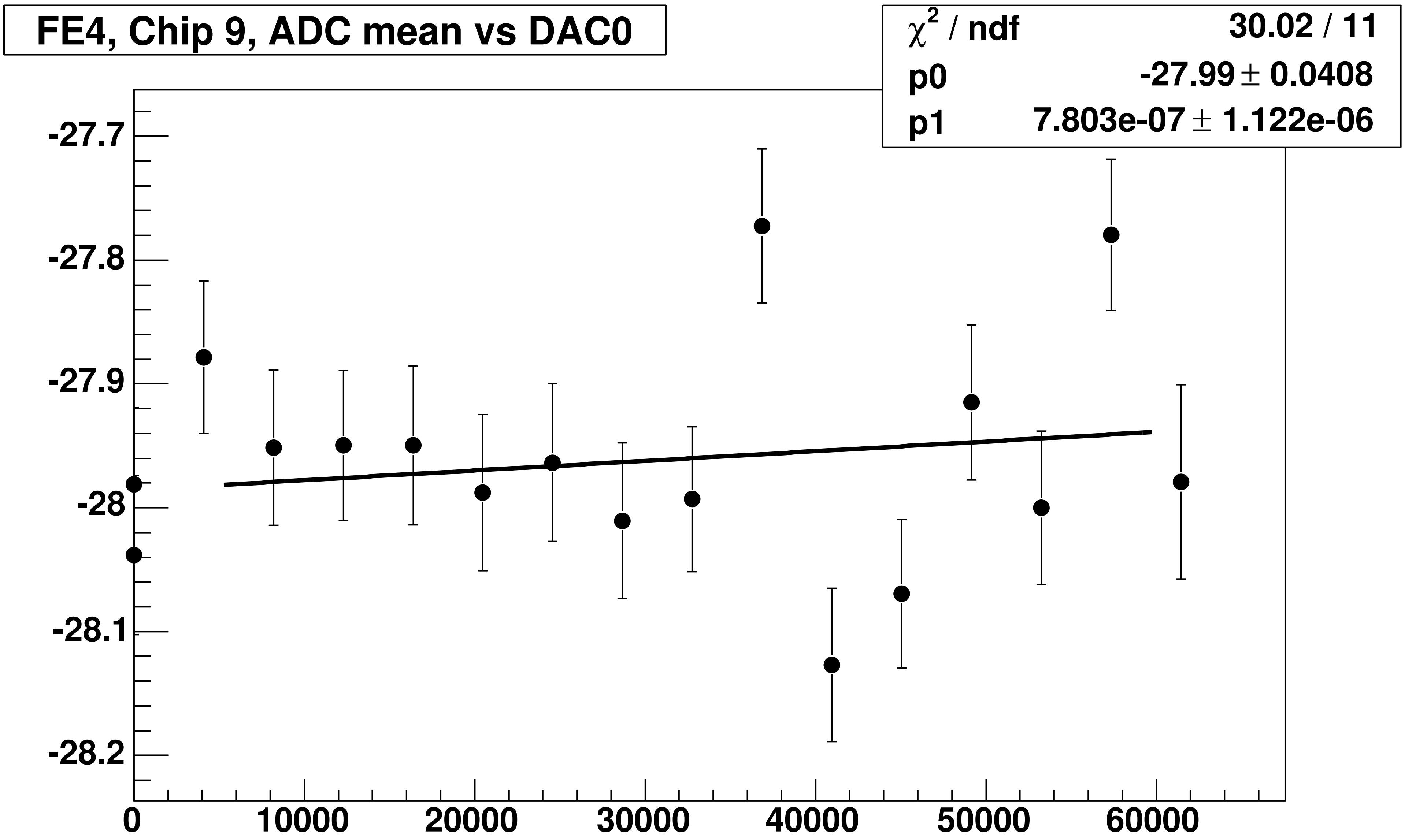
FE4, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



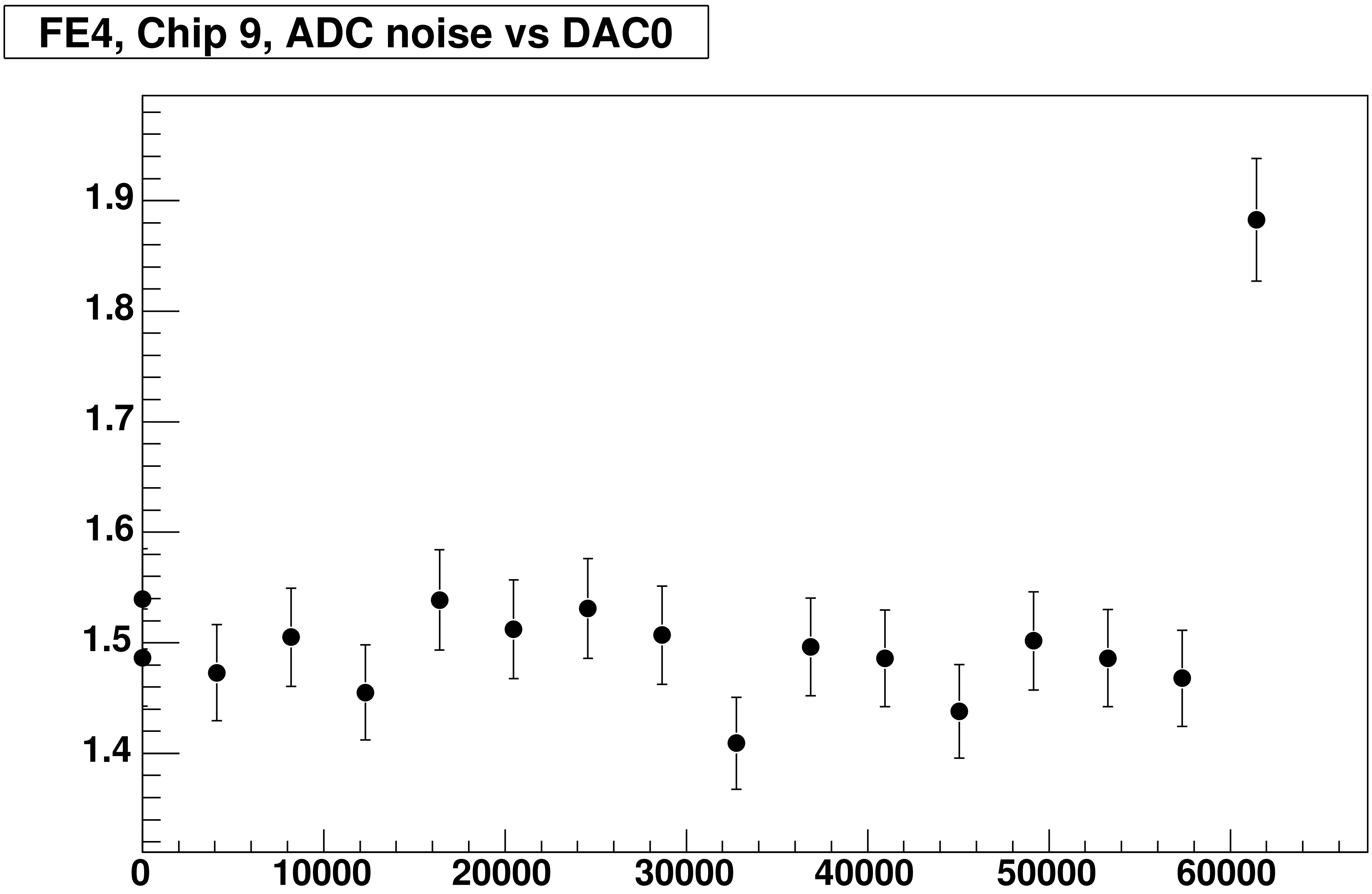
FE4, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1315 / 11
p0 -28.9 ± 0.04258
p1 0.4514 ± 1.363e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

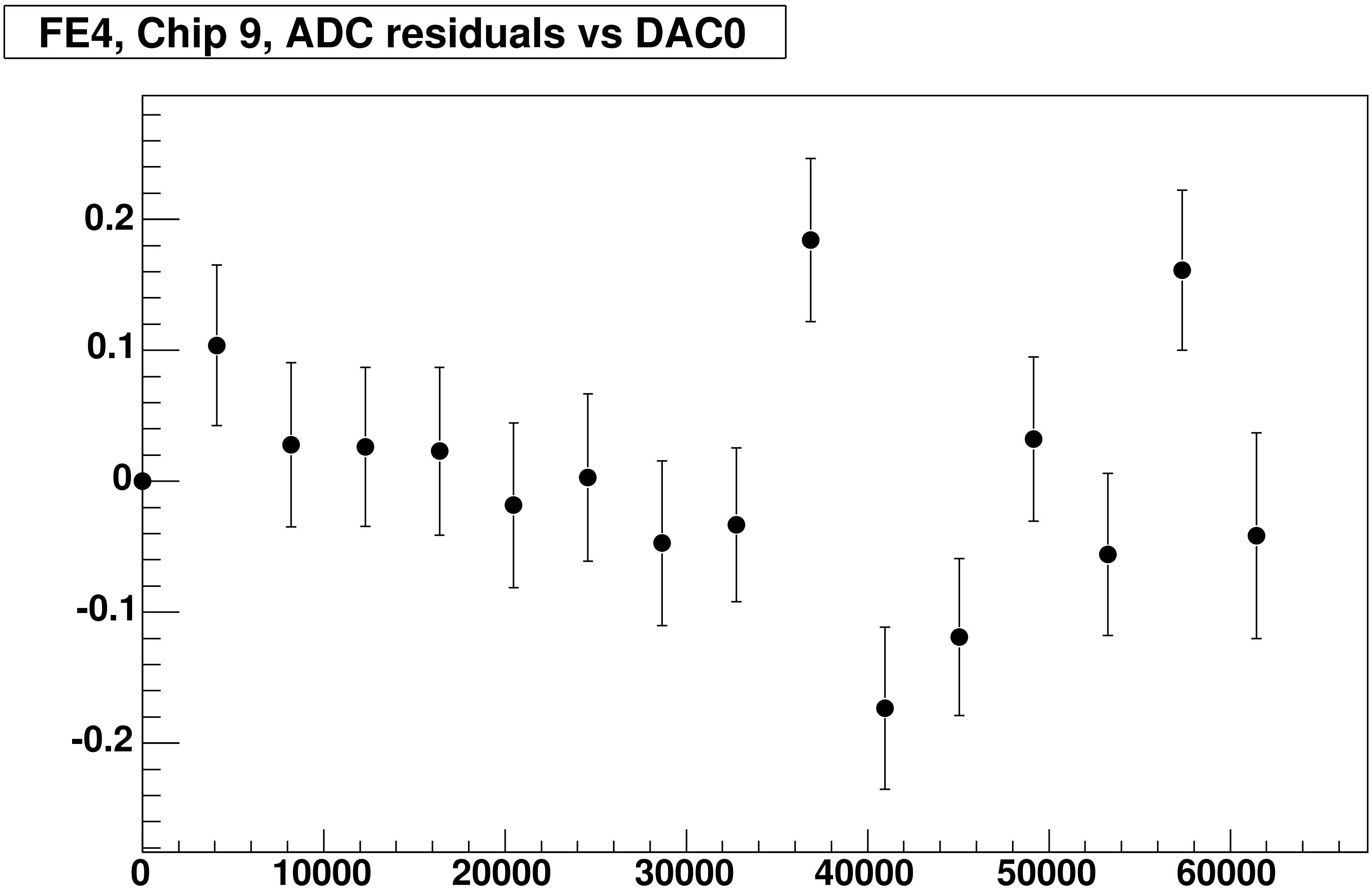

FE4, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



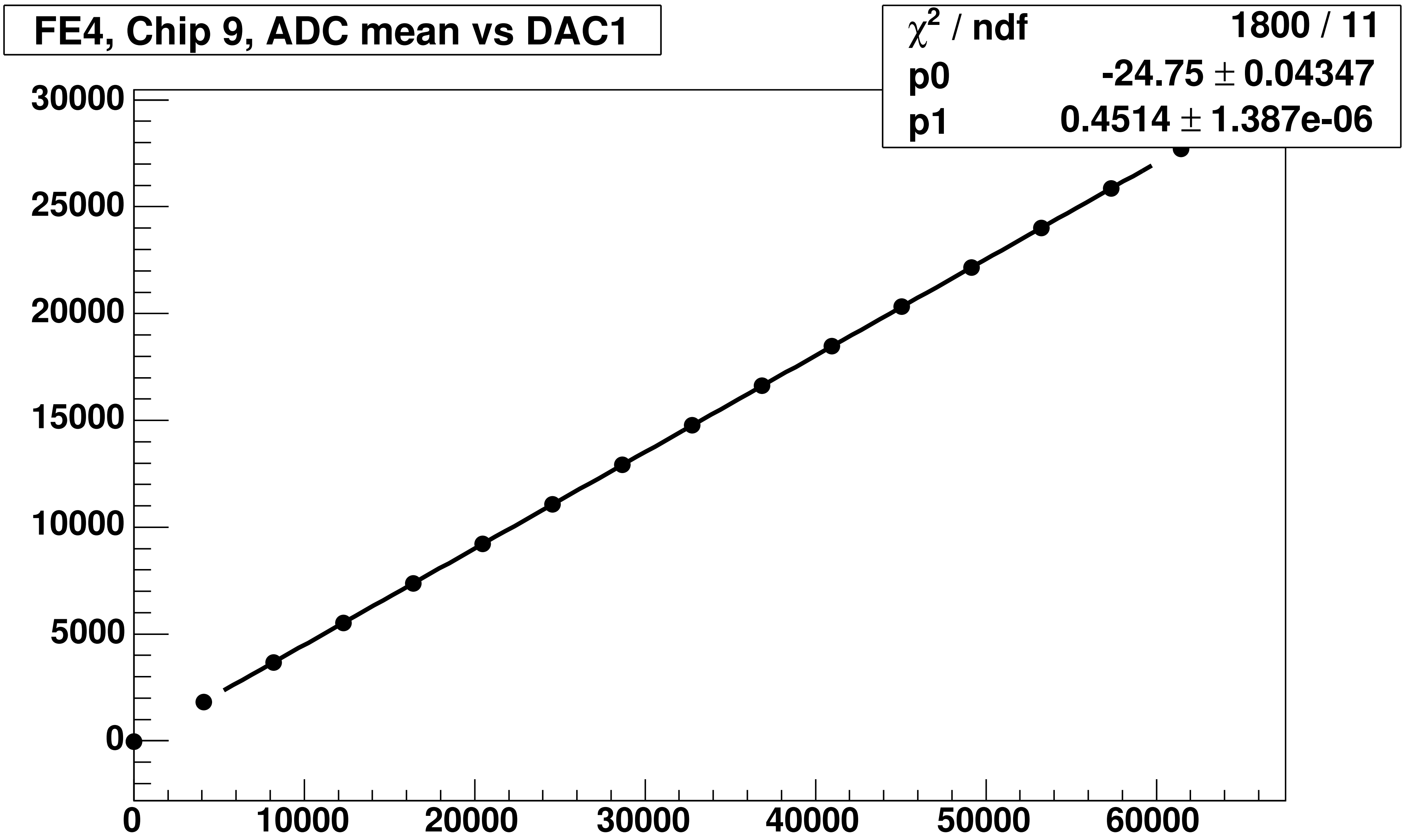
FE4, Chip 9, ADC mean vs DAC0
χ^2 / ndf 30.02 / 11
p0 -27.99 ± 0.0408
p1 7.803e-07 ± 1.122e-06
-27.7
-27.8
-27.9
-28
-28.1
-28.2
0
10000
20000
30000
40000
50000
60000



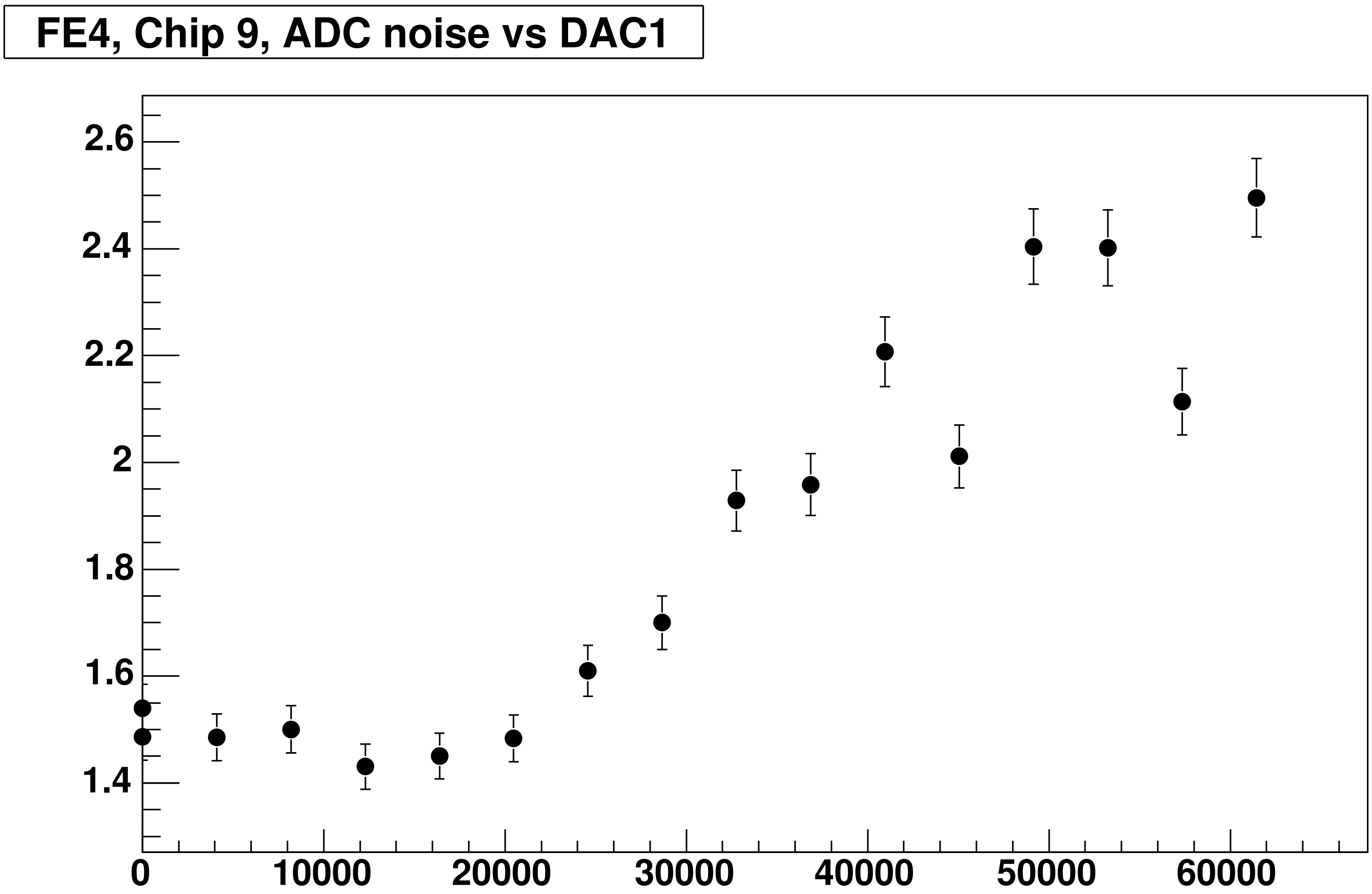
FE4, Chip 9, ADC noise vs DAC0
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

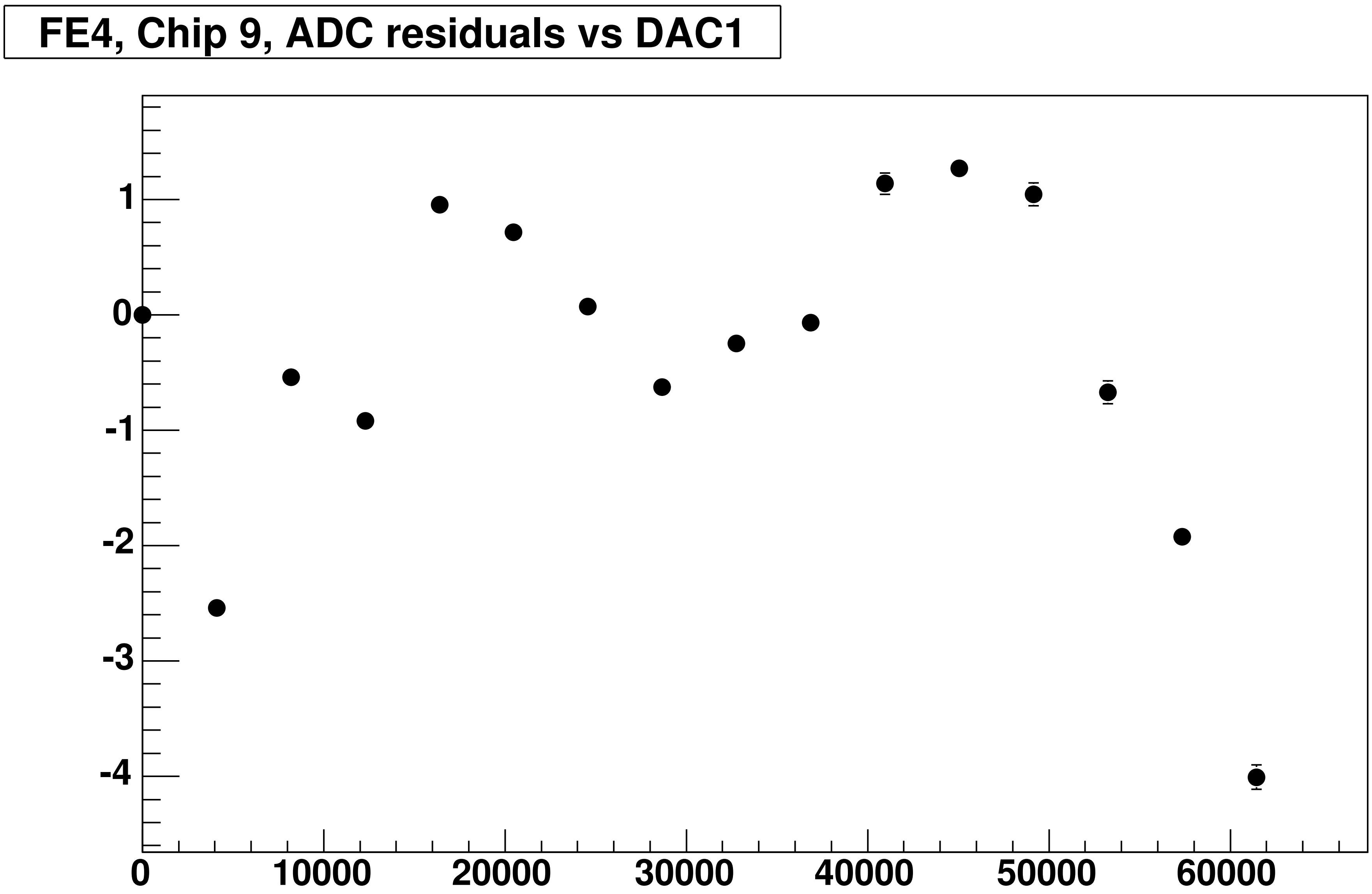


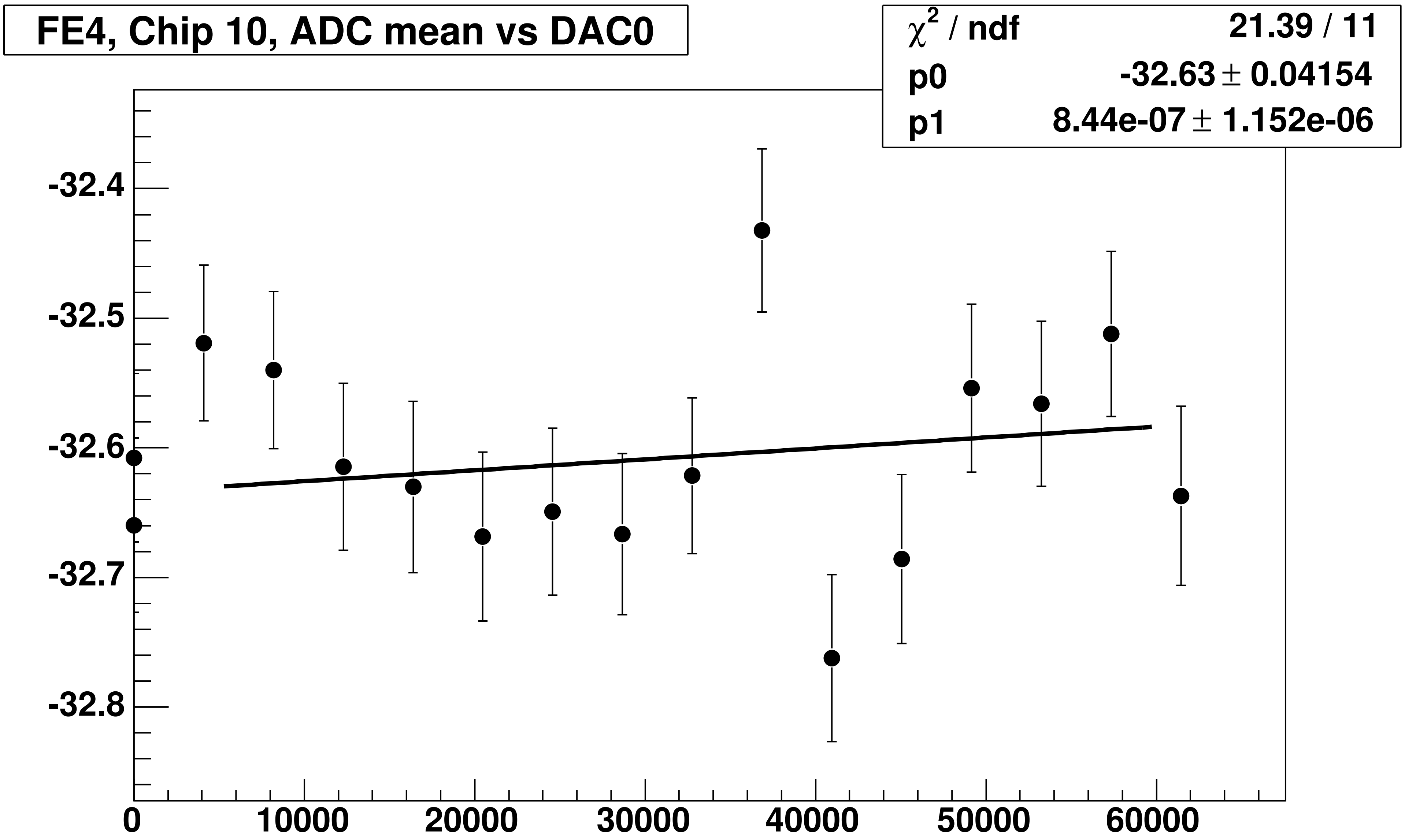
FE4, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



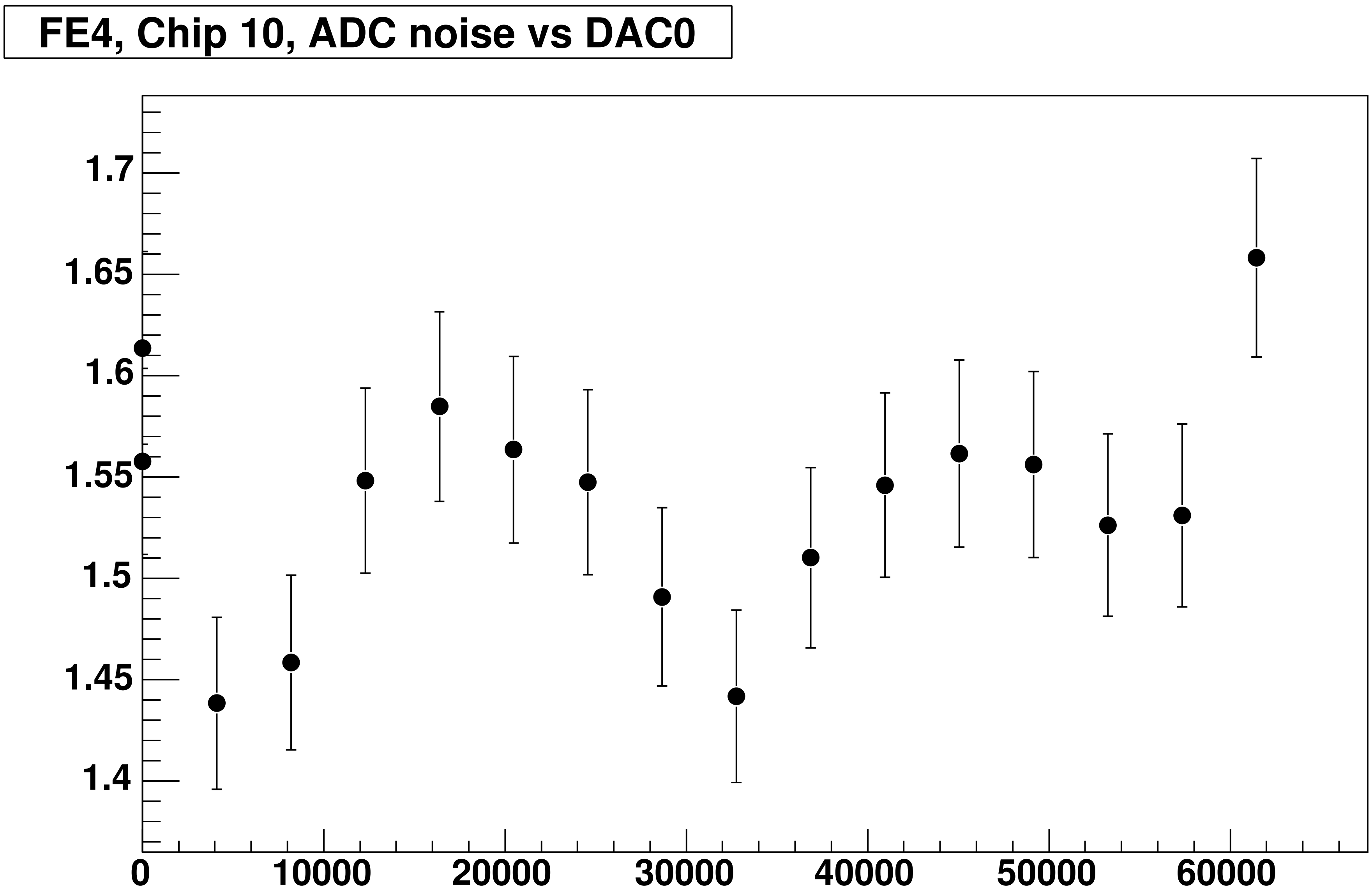
FE4, Chip 9, ADC mean vs DAC1
χ² / ndf 1800 / 11
p0 -24.75 ± 0.04347
p1 0.4514 ± 1.387e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

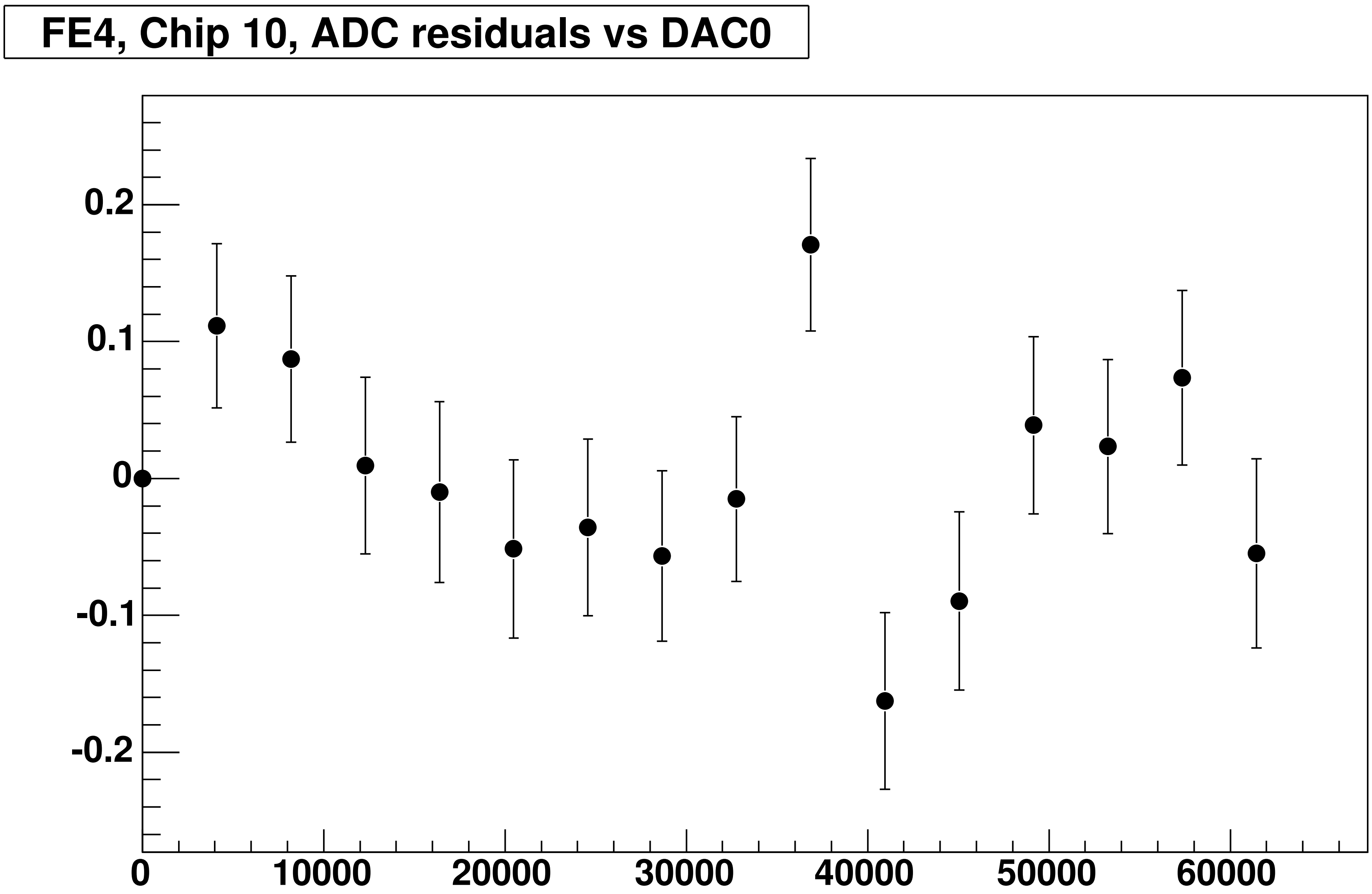

FE4, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

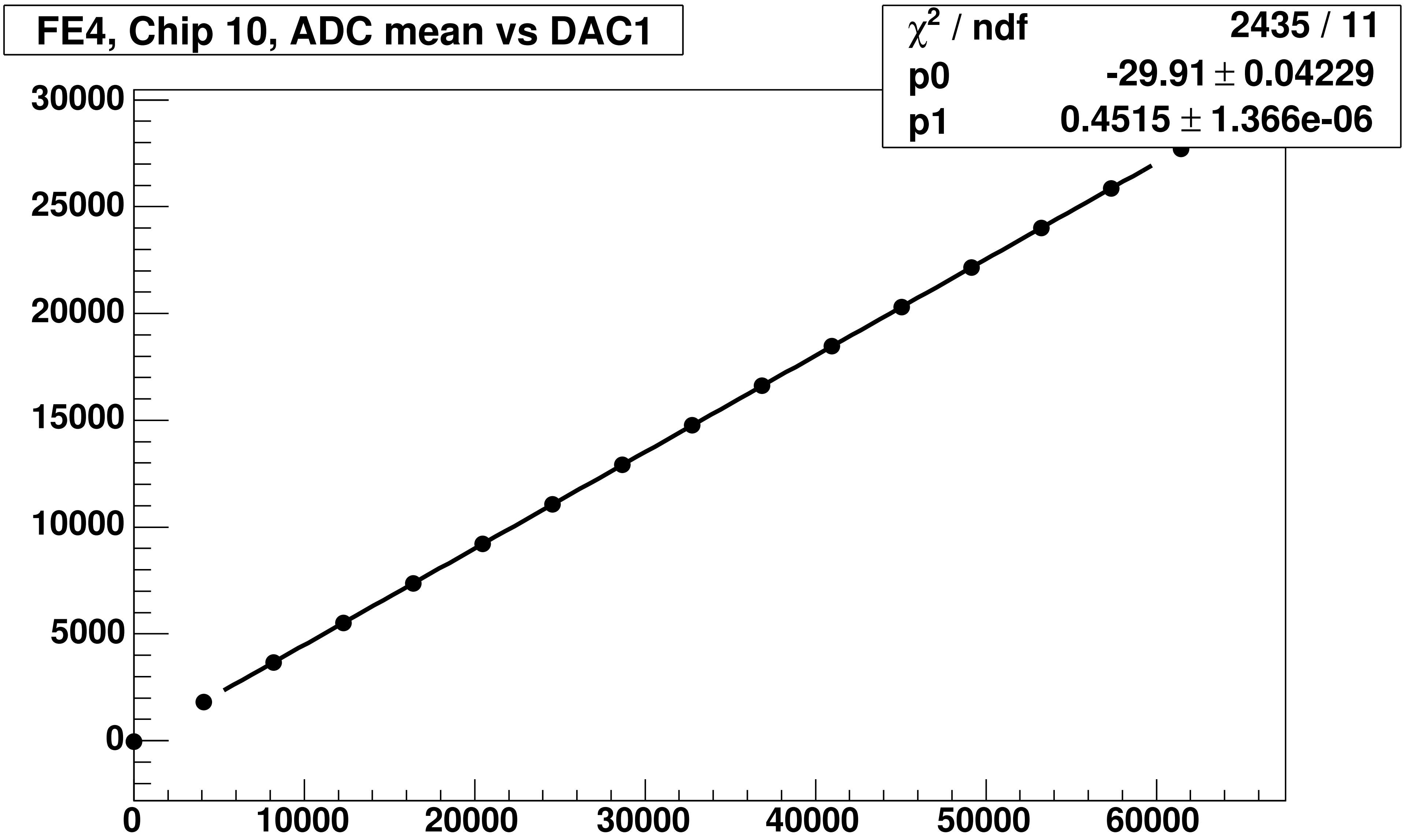

FE4, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



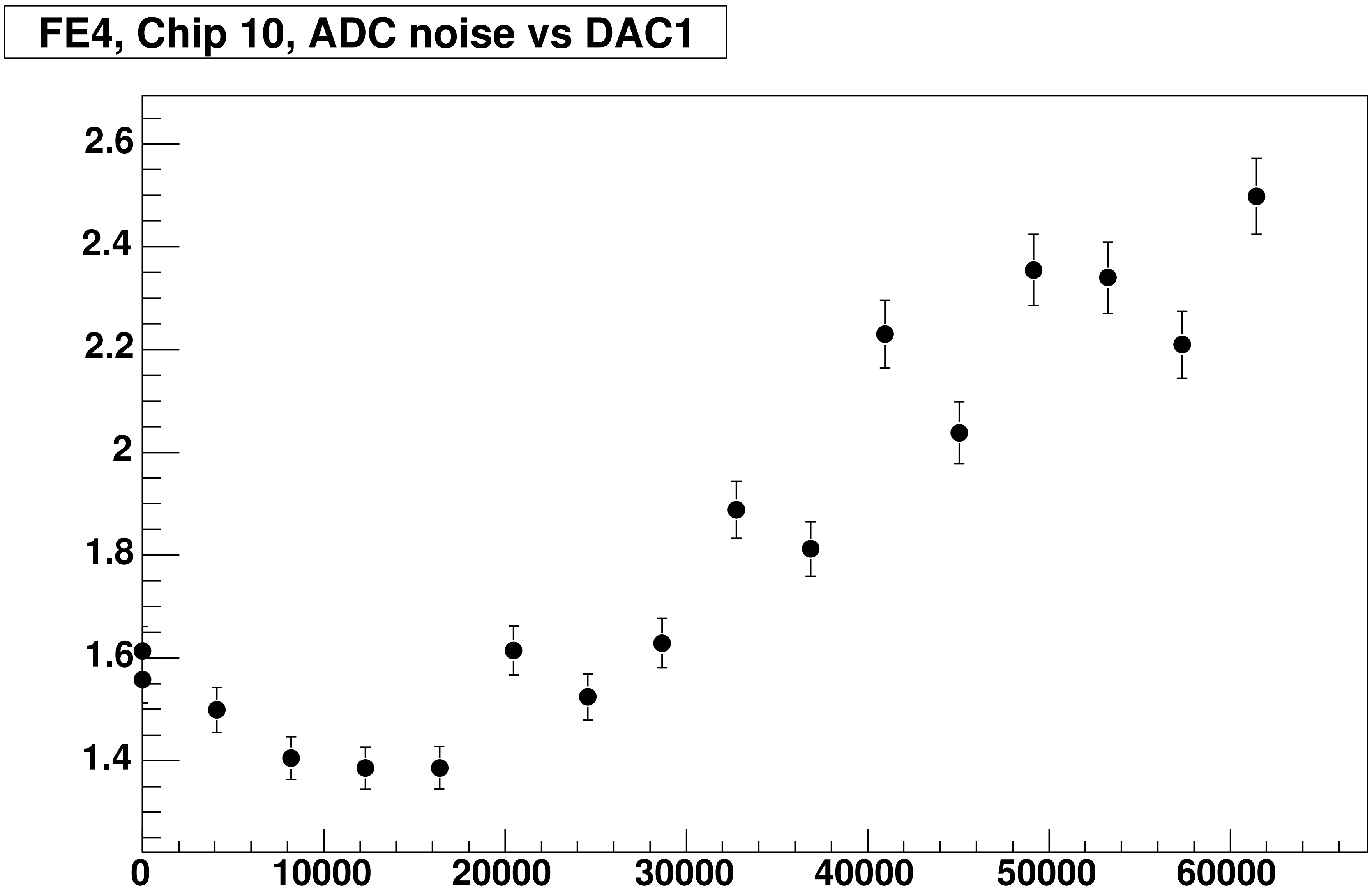
FE4, Chip 10, ADC mean vs DAC0
χ^2 / ndf 21.39 / 11
p0 -32.63 ± 0.04154
p1 8.44e-07 ± 1.152e-06
-32.4
-32.5
-32.6
-32.7
-32.8
0
10000
20000
30000
40000
50000
60000


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

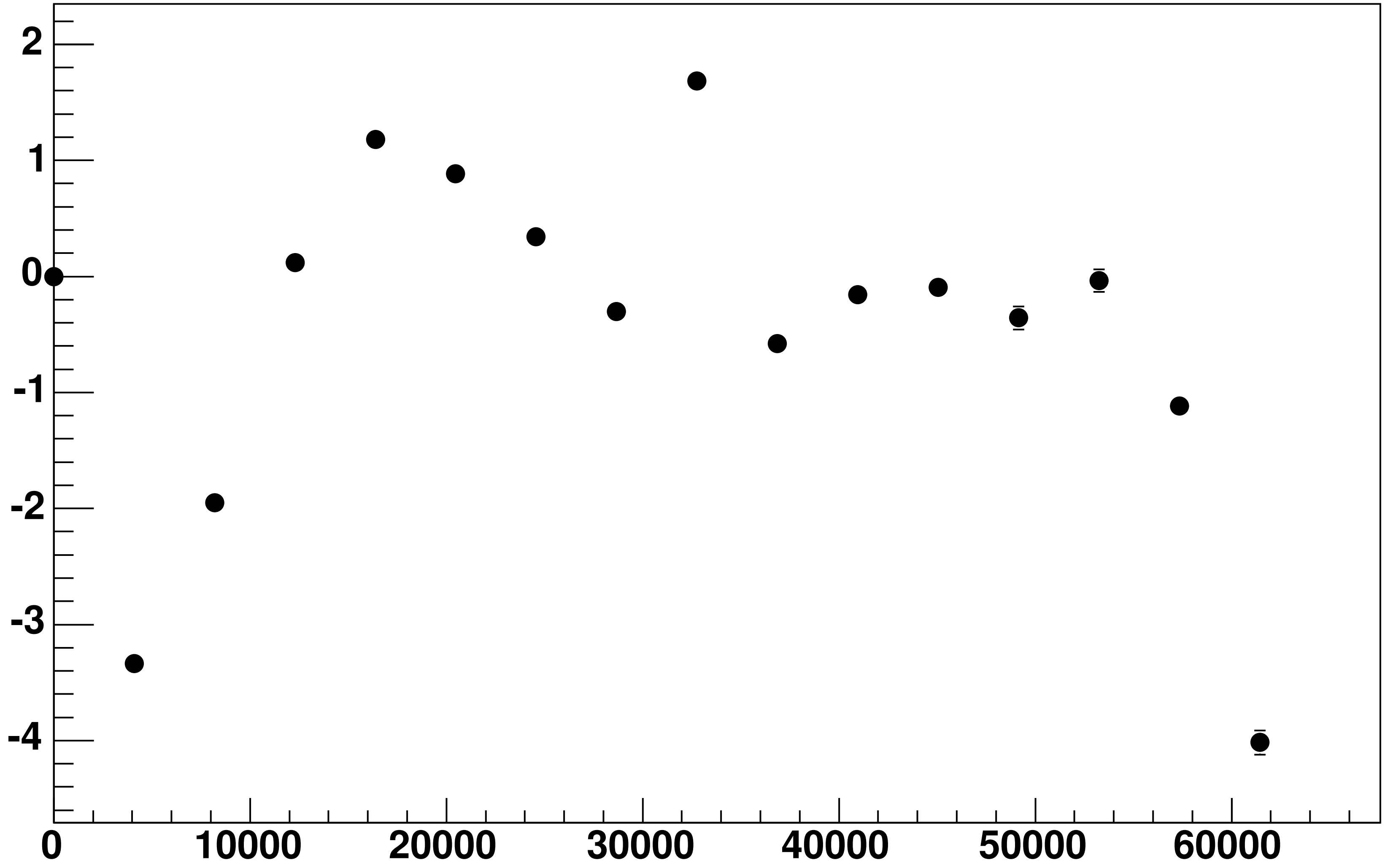

FE4, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

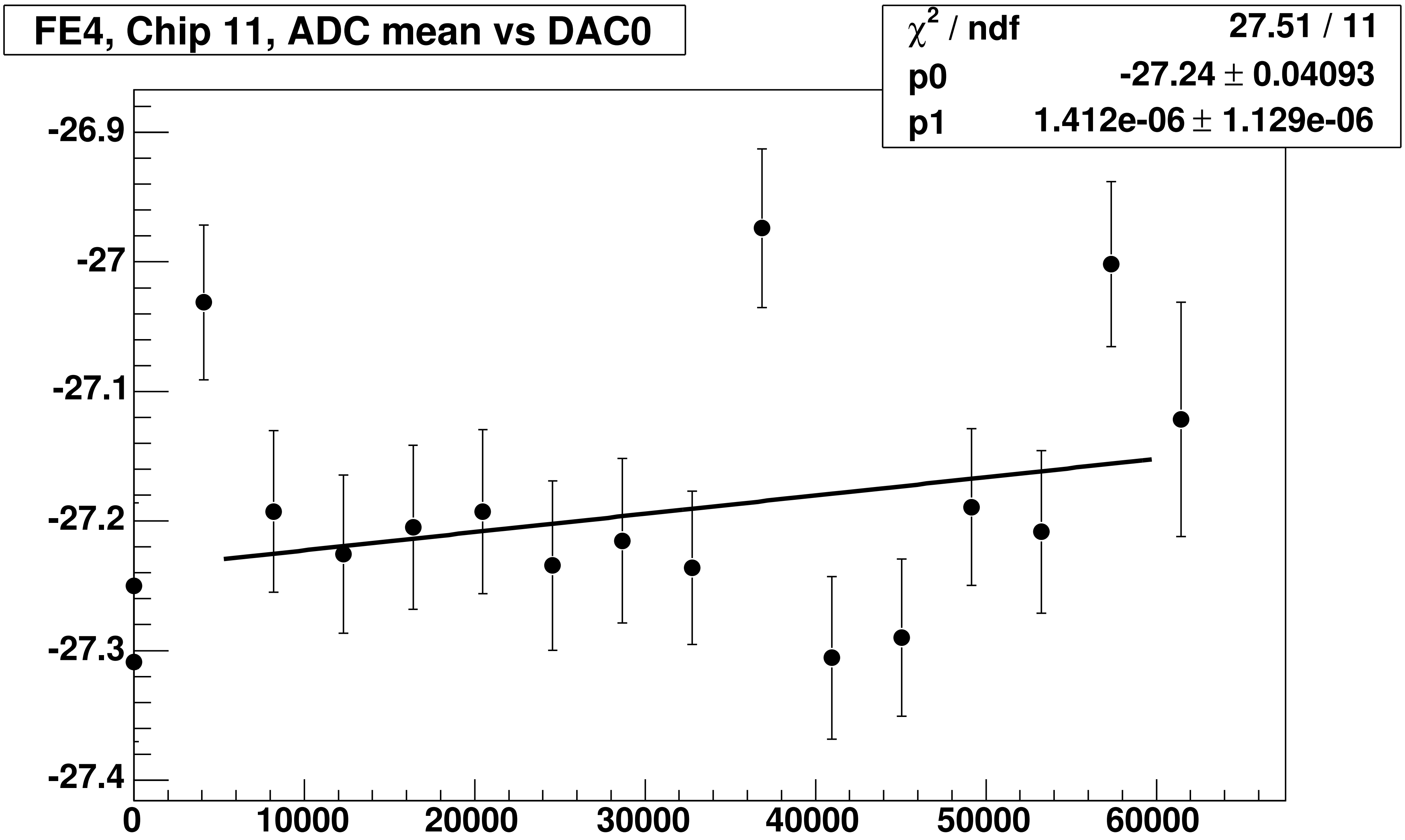


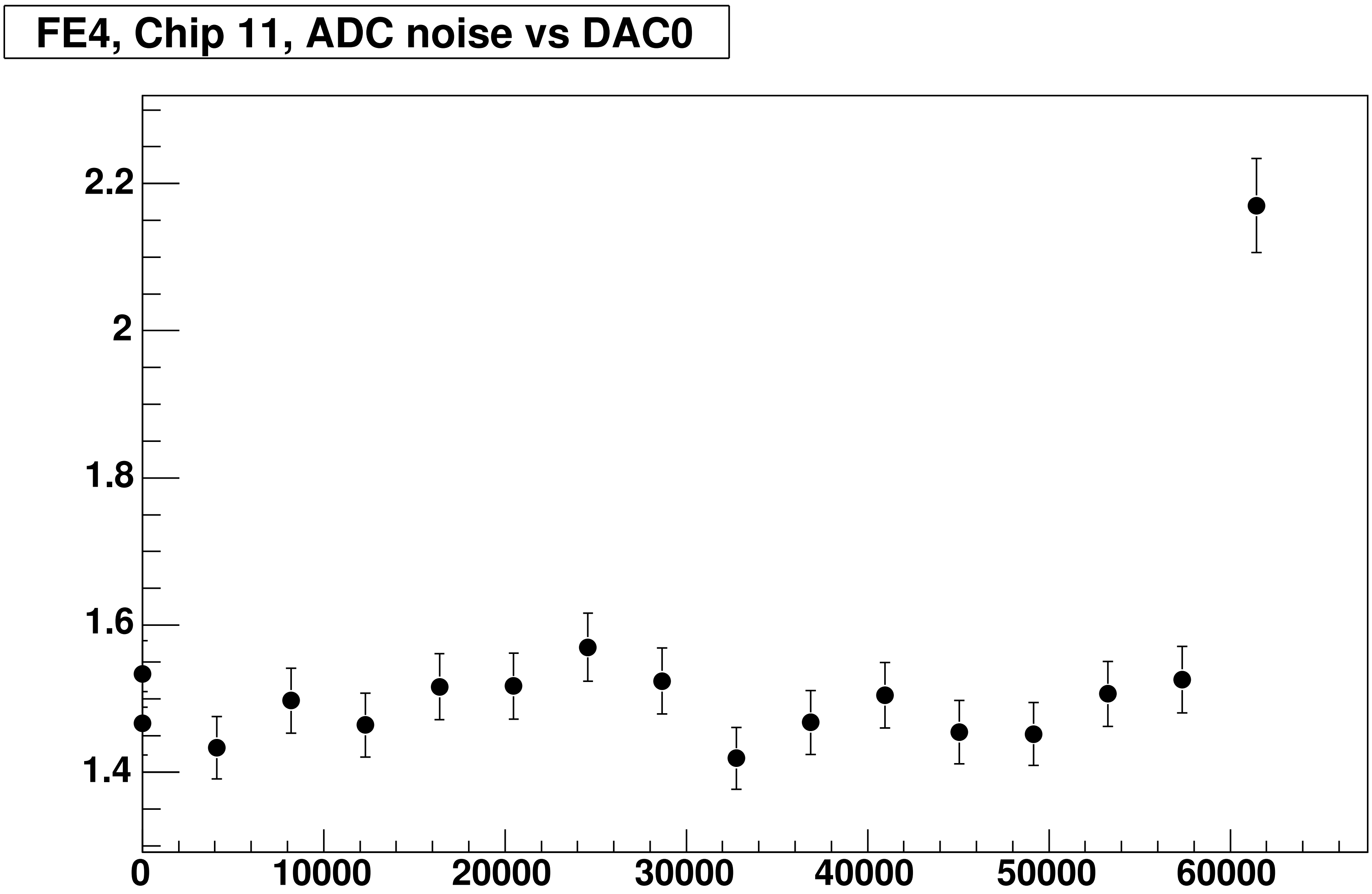
FE4, Chip 10, ADC mean vs DAC1
χ^2 / ndf 2435 / 11
p0 -29.91 ± 0.04229
p1 0.4515 ± 1.366e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

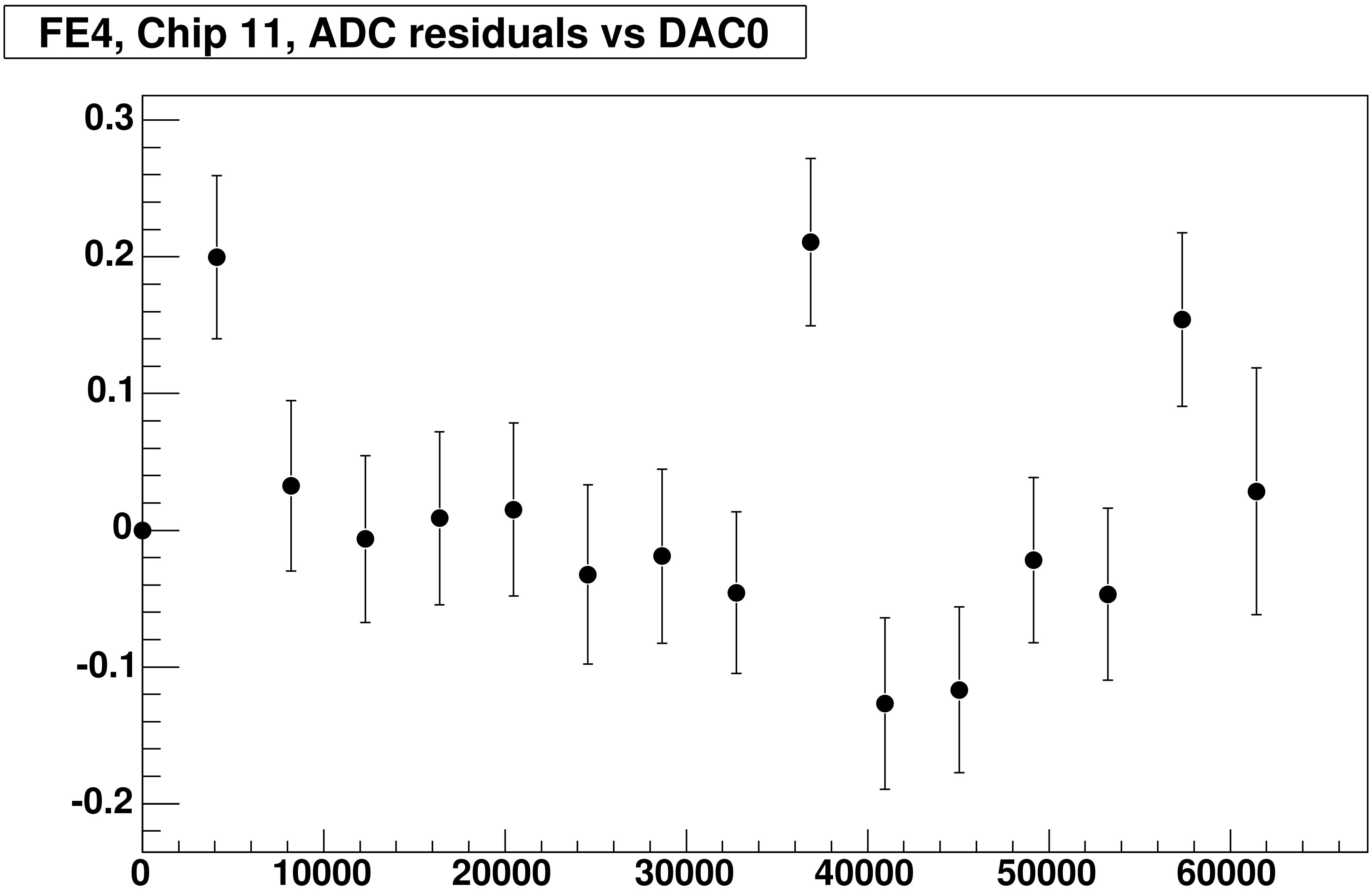

FE4, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

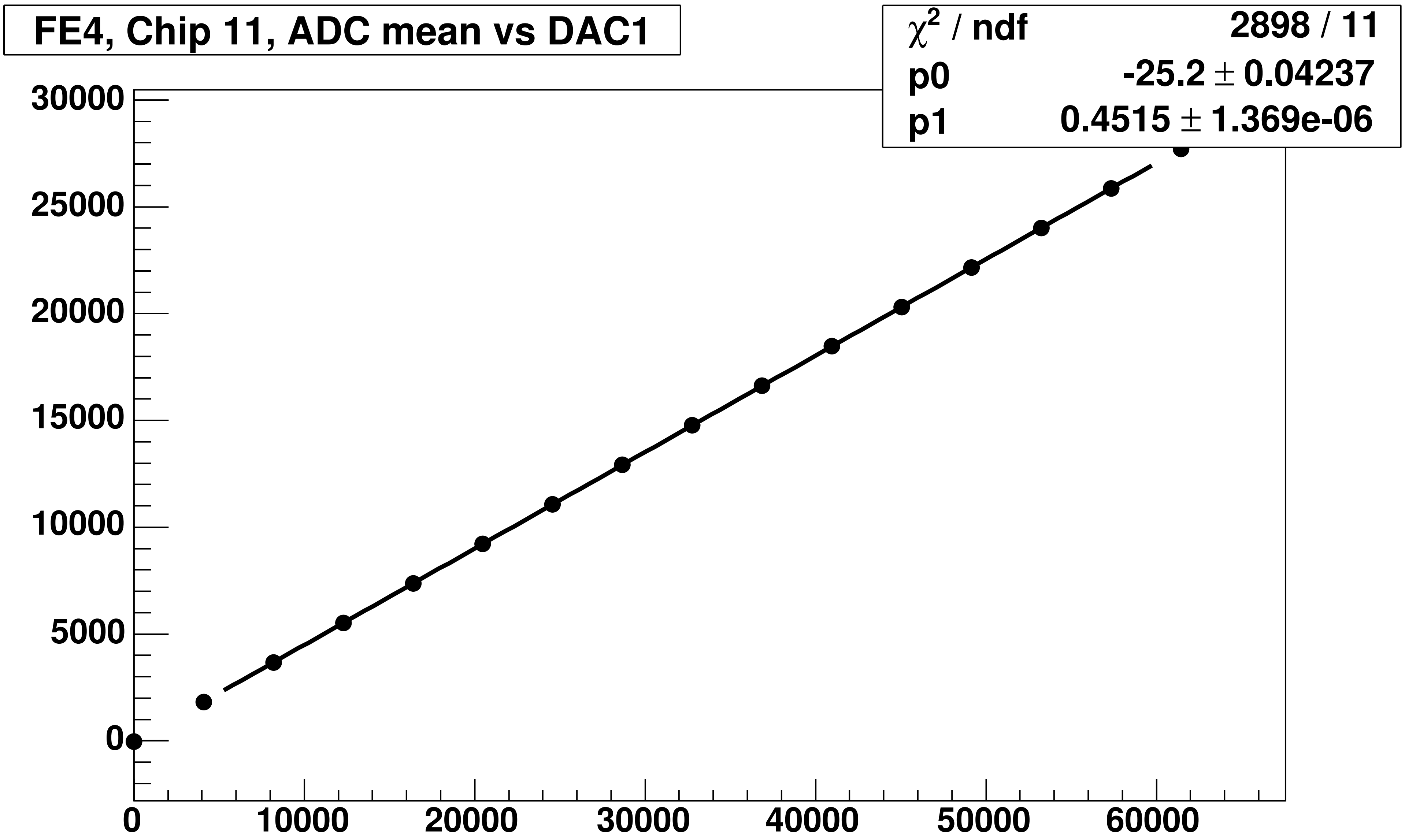
FE4, Chip 10, ADC residuals vs DAC1

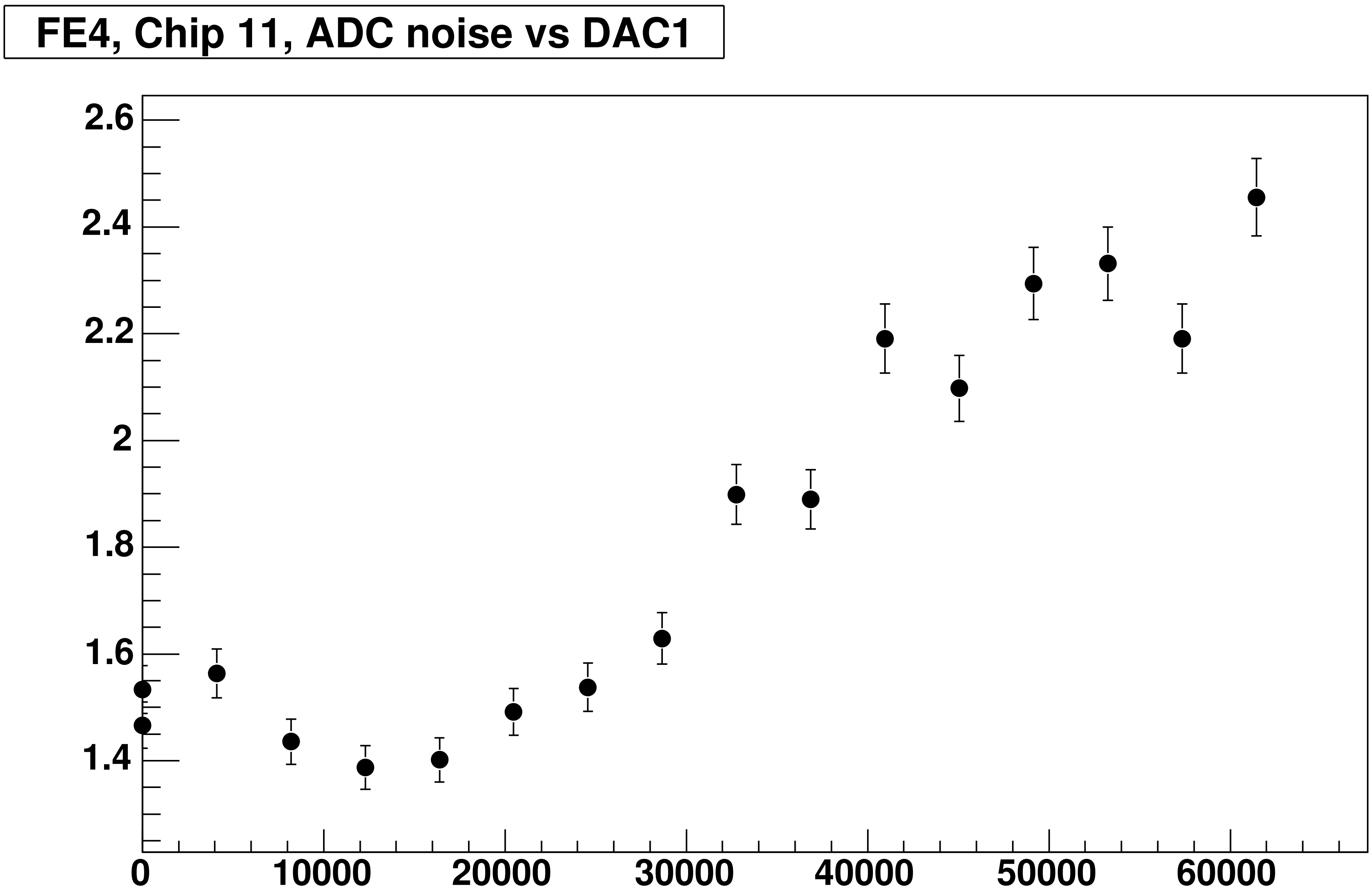



FE4, Chip 11, ADC mean vs DAC0
χ^2 / ndf 27.51 / 11
p0 -27.24 ± 0.04093
p1 1.412e-06 ± 1.129e-06
-26.9
-27
-27.1
-27.2
-27.3
-27.4
0
10000
20000
30000
40000
50000
60000

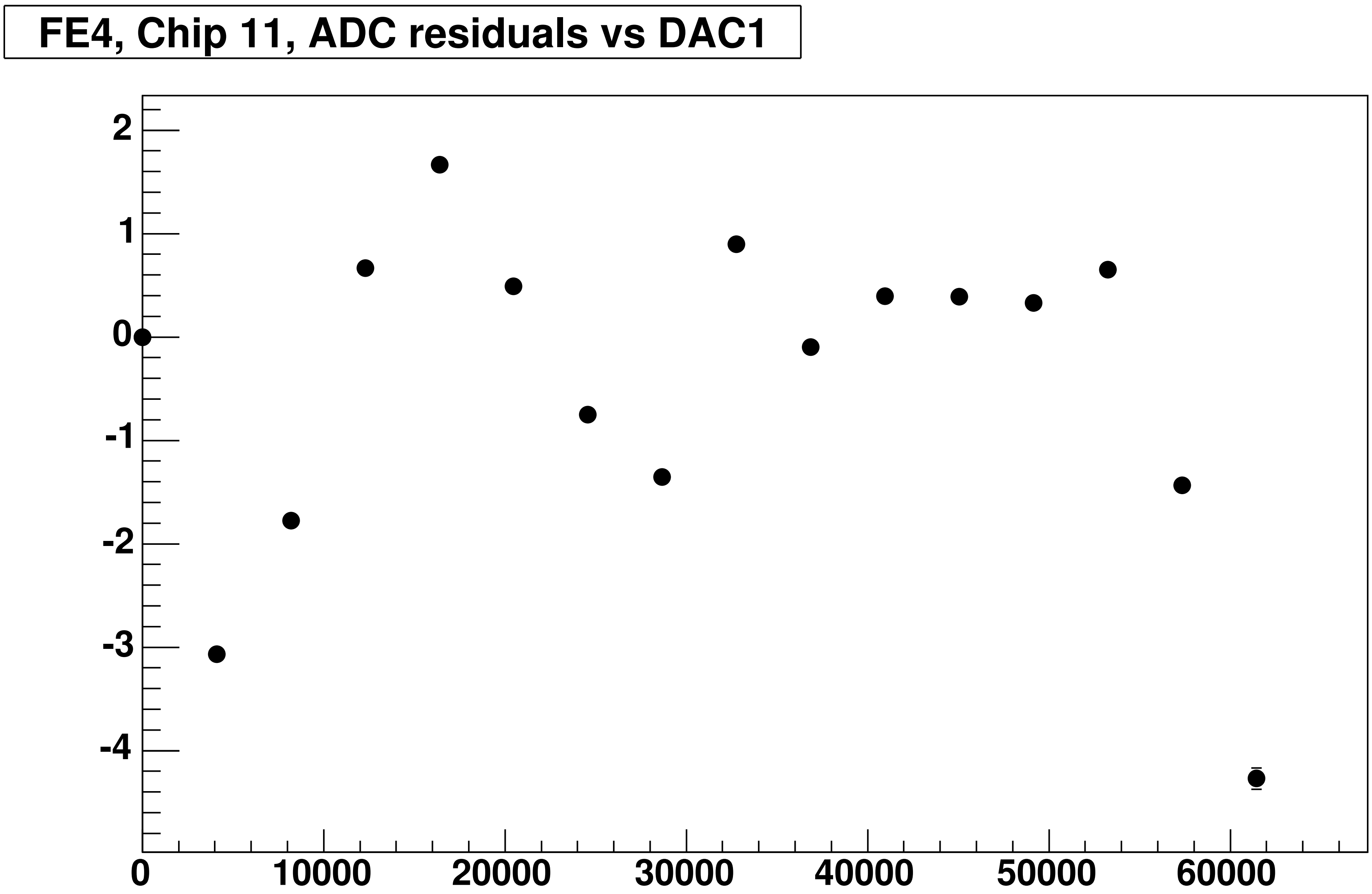

FE4, Chip 11, ADC noise vs DAC0
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

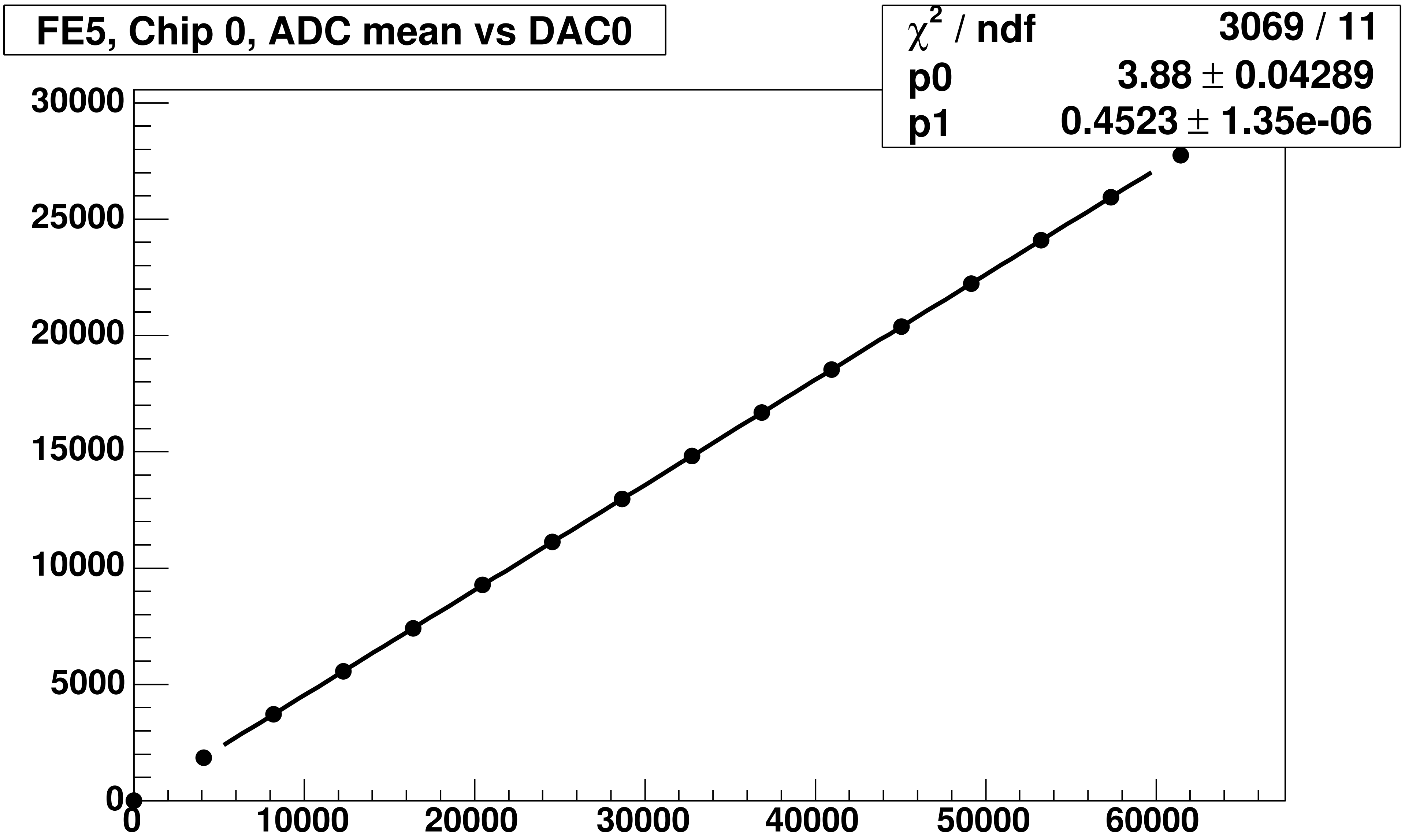

FE4, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE4, Chip 11, ADC mean vs DAC1
χ^2 / ndf 2898 / 11
p0 -25.2 ± 0.04237
p1 0.4515 ± 1.369e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

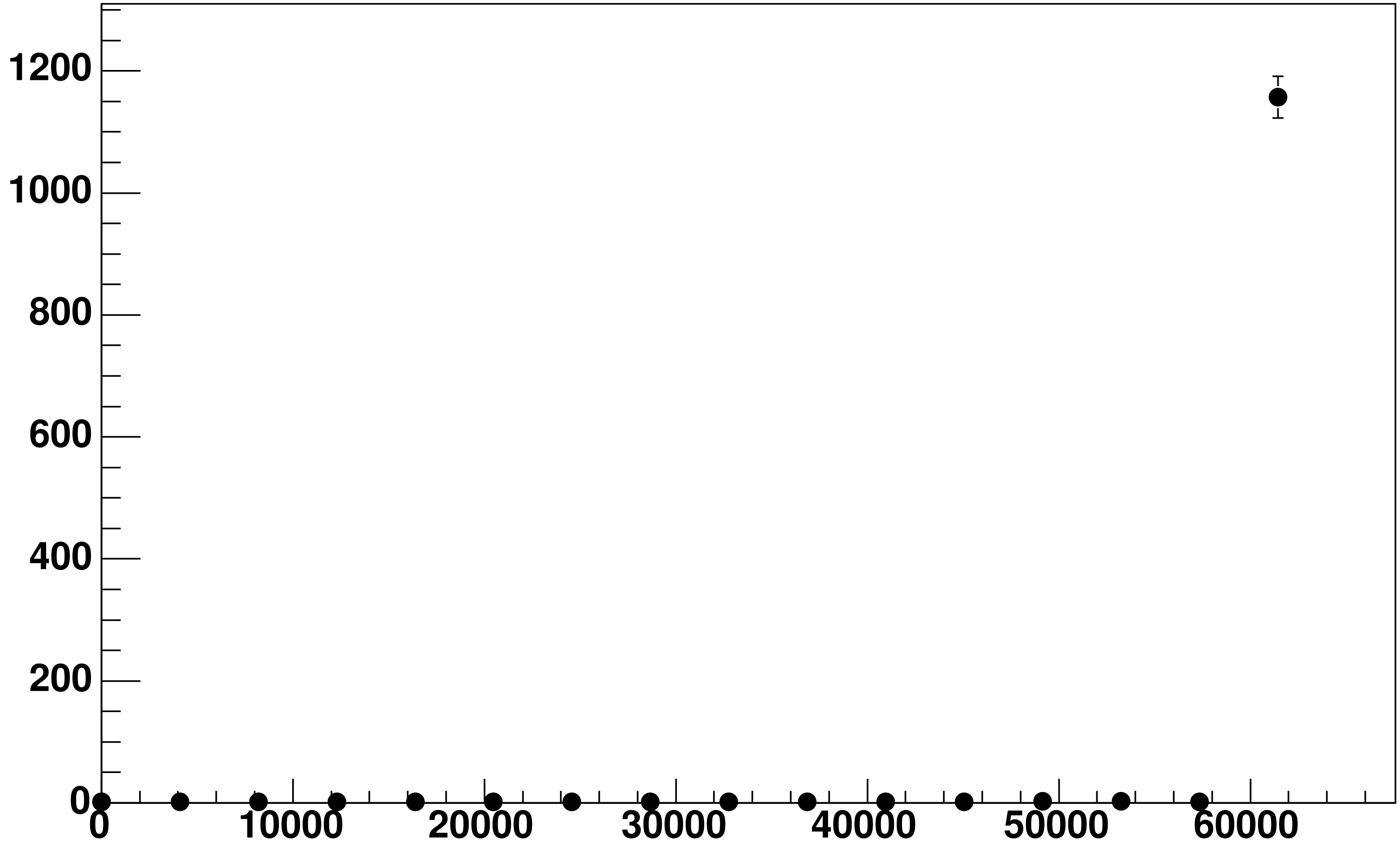


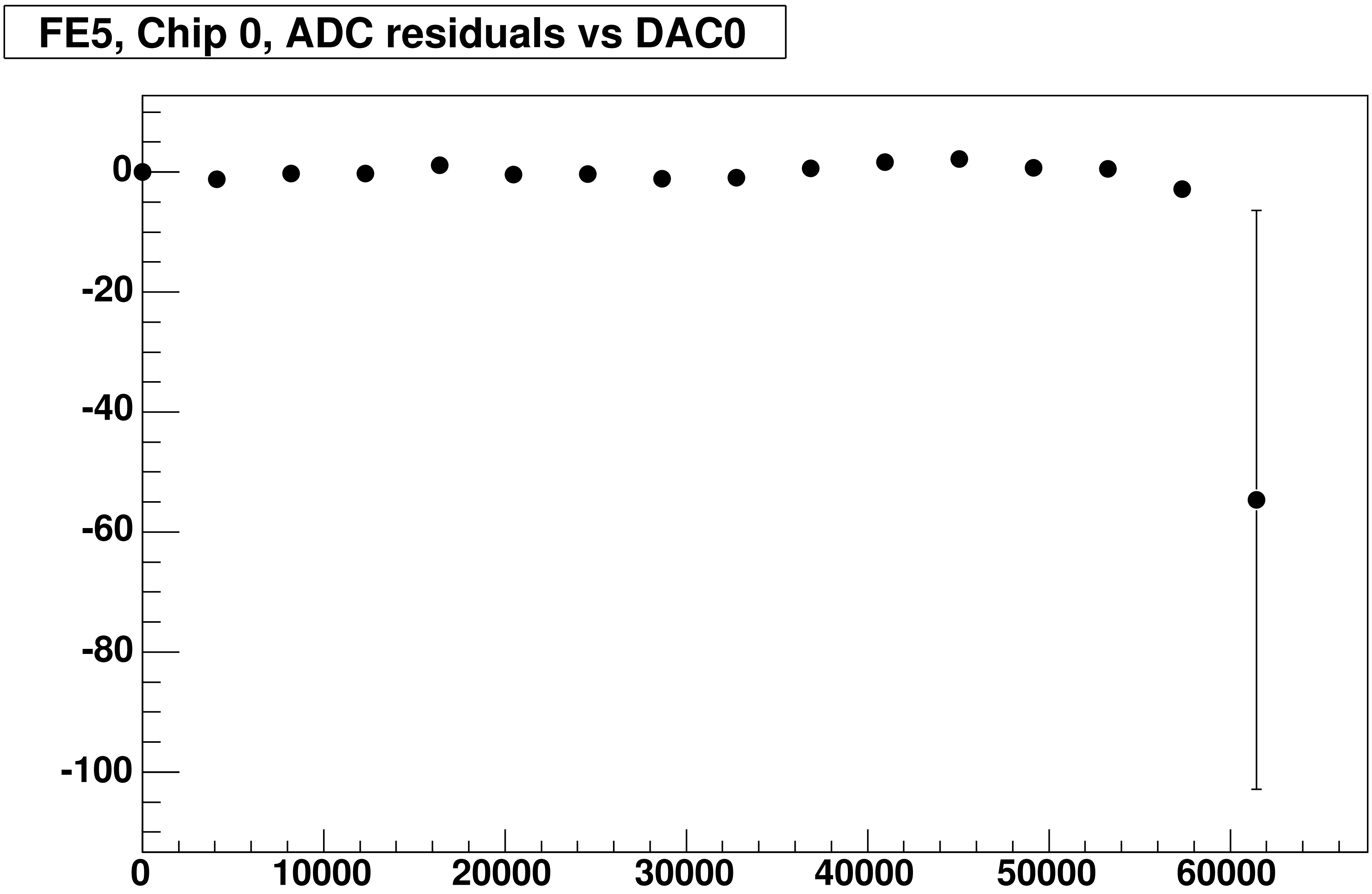
FE4, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

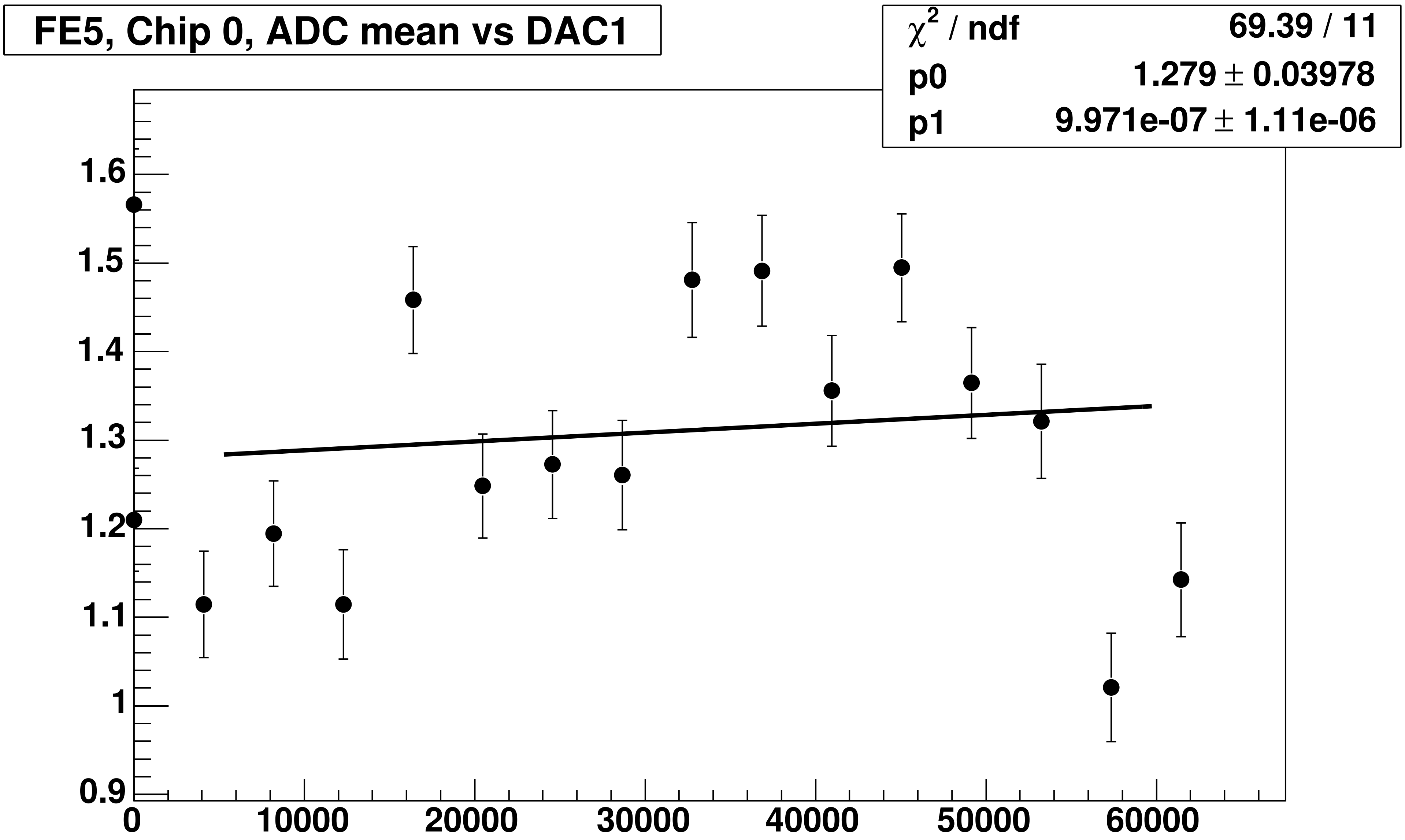

FE5, Chip 0, ADC mean vs DAC0
χ^2 / ndf 3069 / 11
p0 3.88 ± 0.04289
p1 0.4523 ± 1.35e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

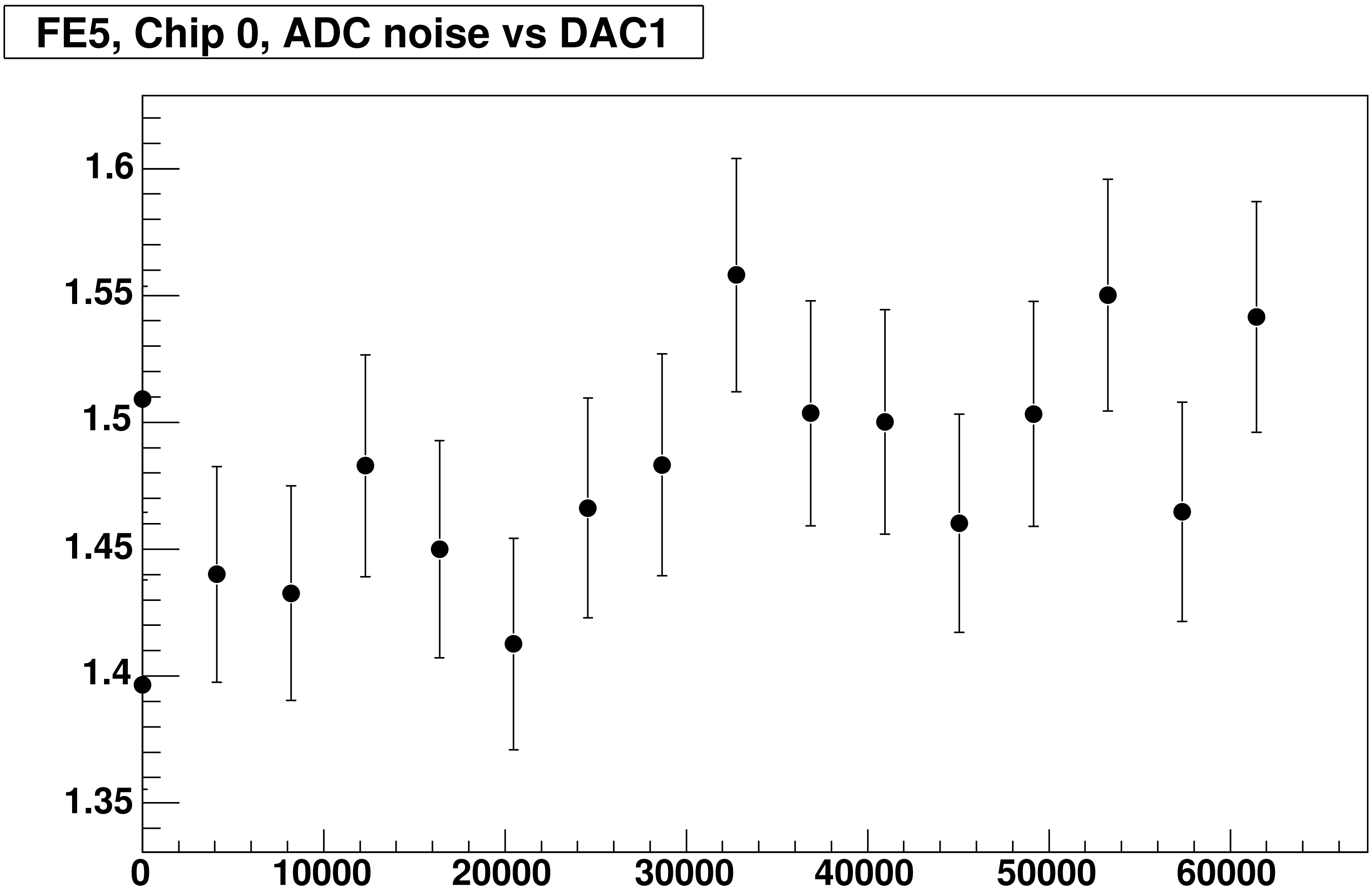
FE5, Chip 0, ADC noise vs DAC0

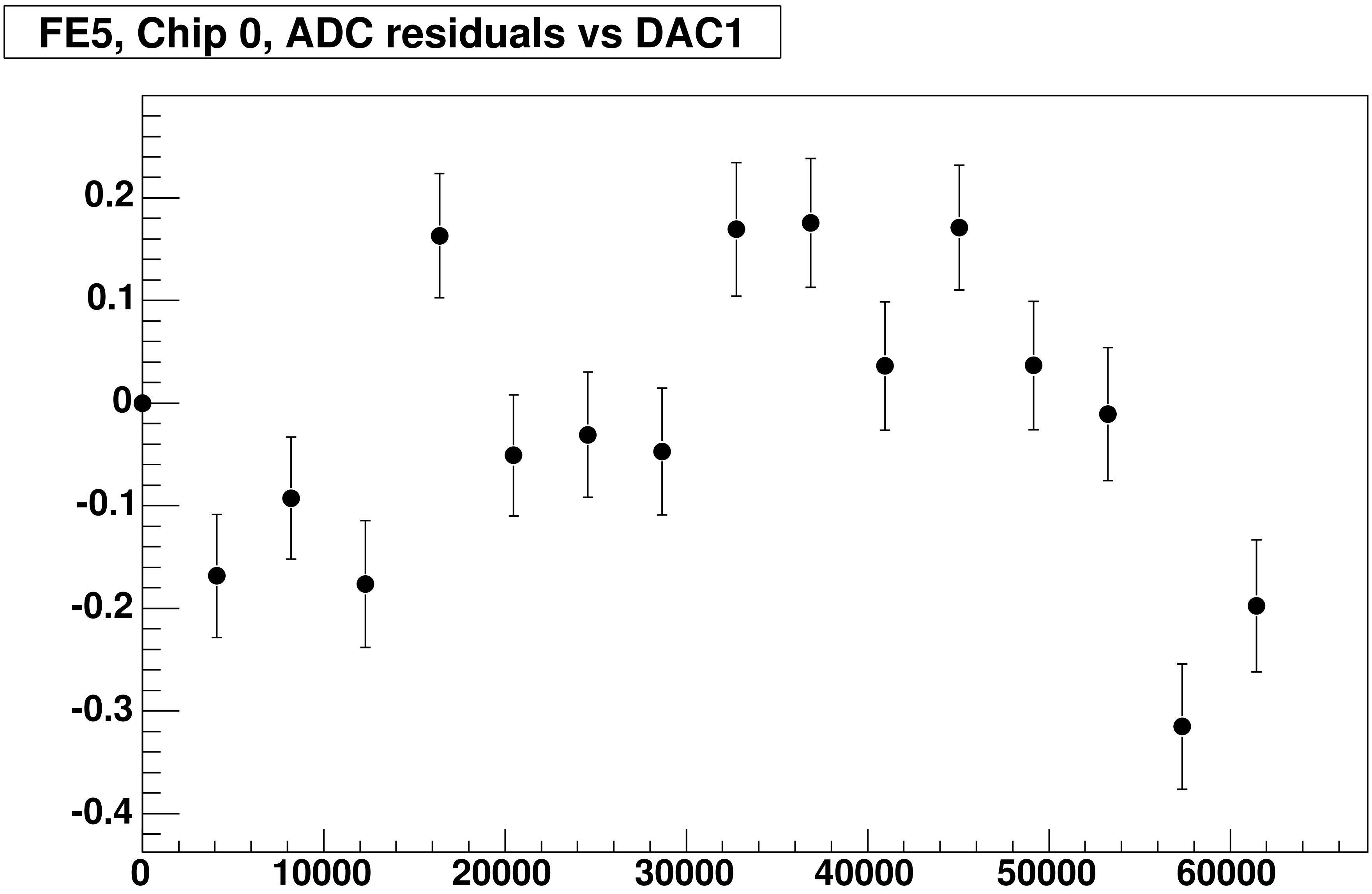


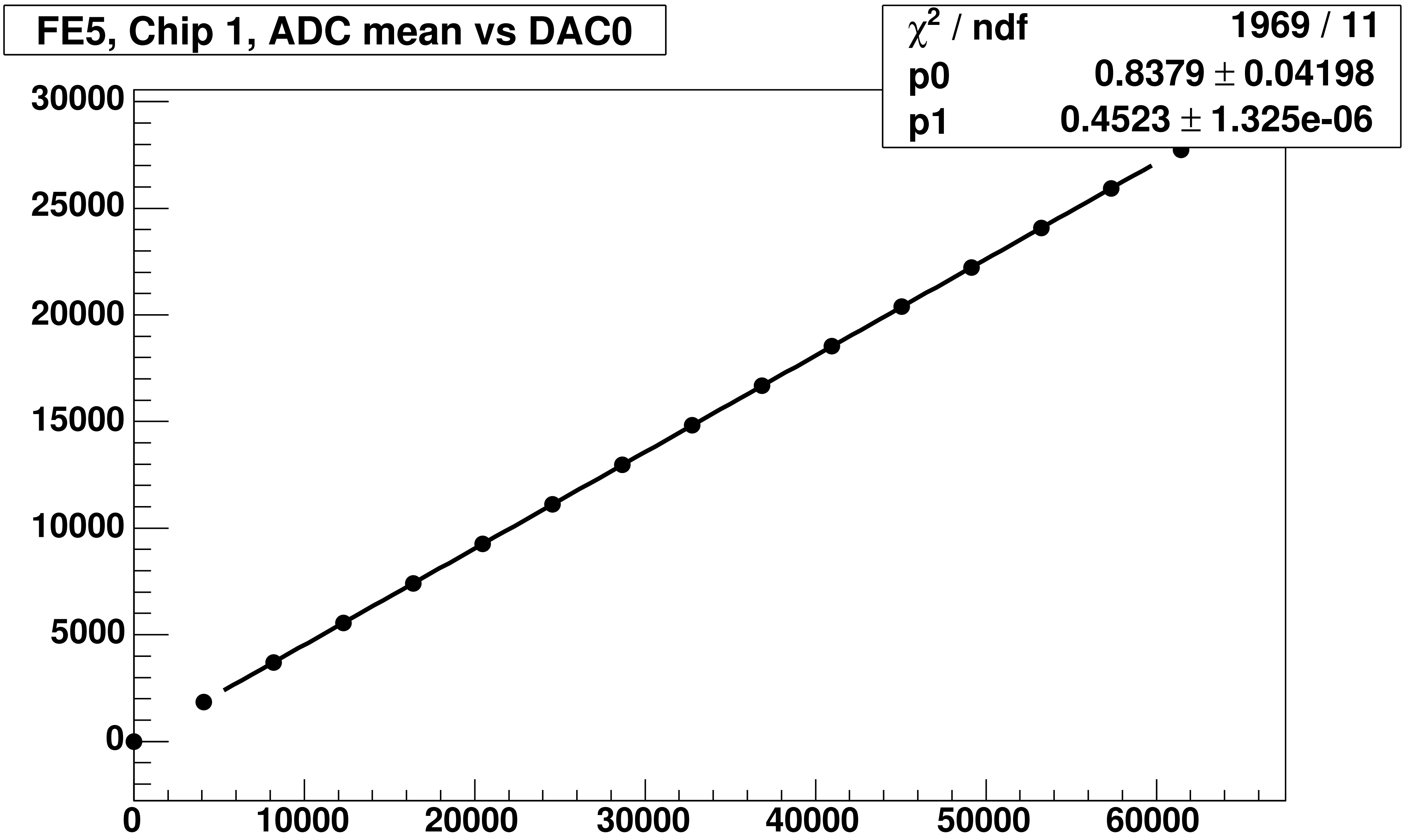


FE5, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

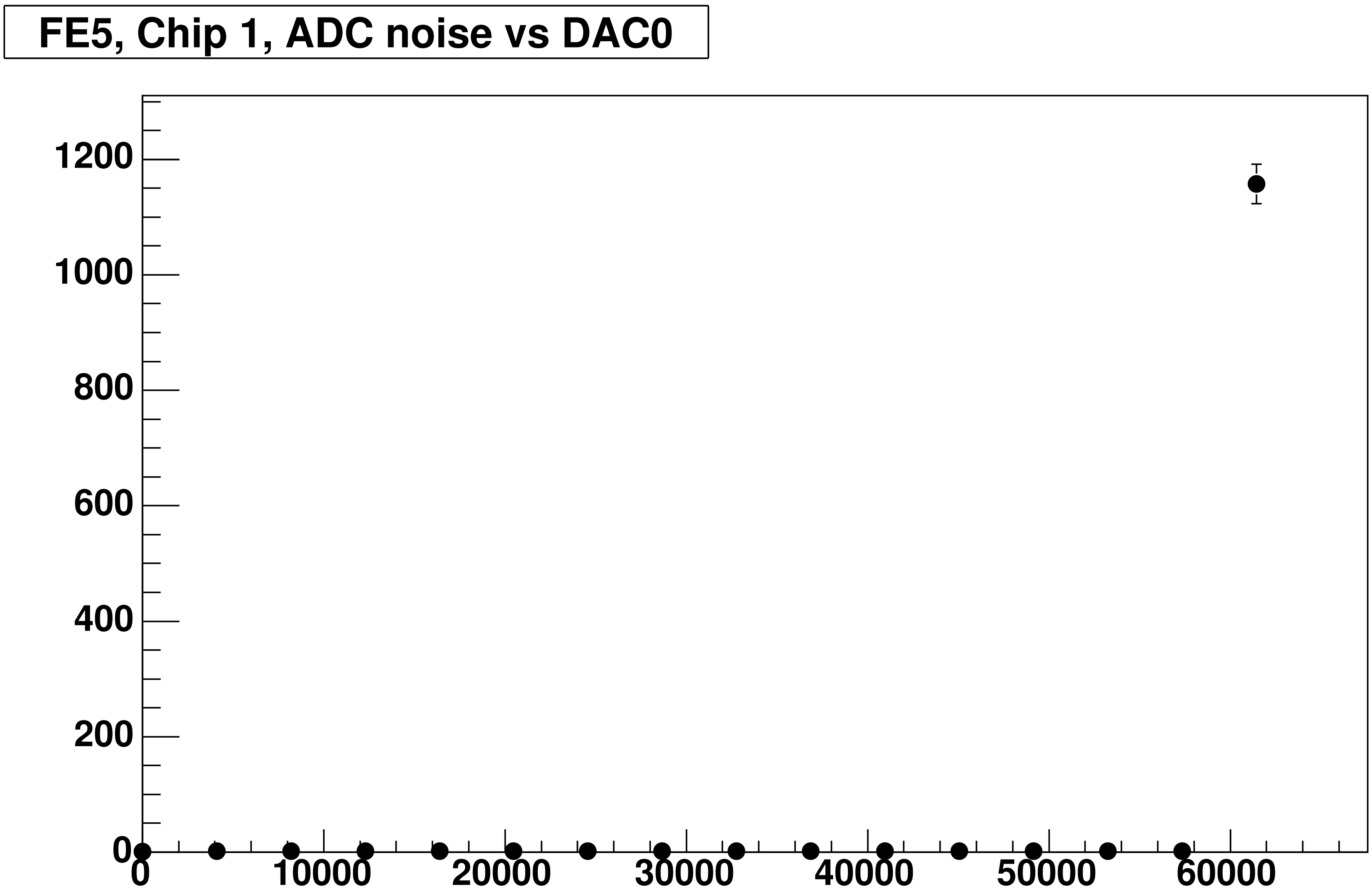

FE5, Chip 0, ADC mean vs DAC1
χ^2 / ndf 69.39 / 11
p0 1.279 ± 0.03978
p1 9.971e-07 ± 1.11e-06
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0
10000
20000
30000
40000
50000
60000

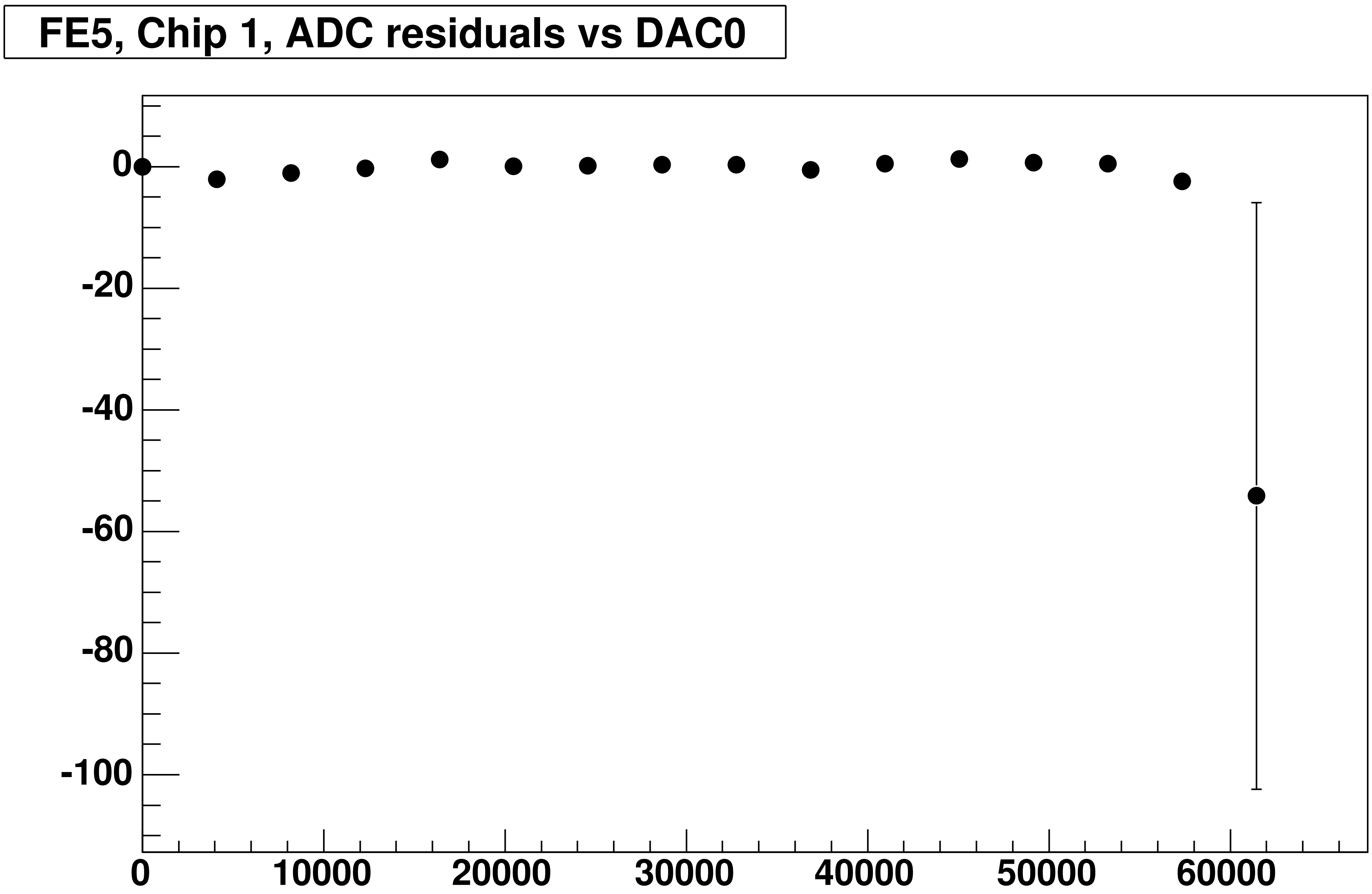

FE5, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

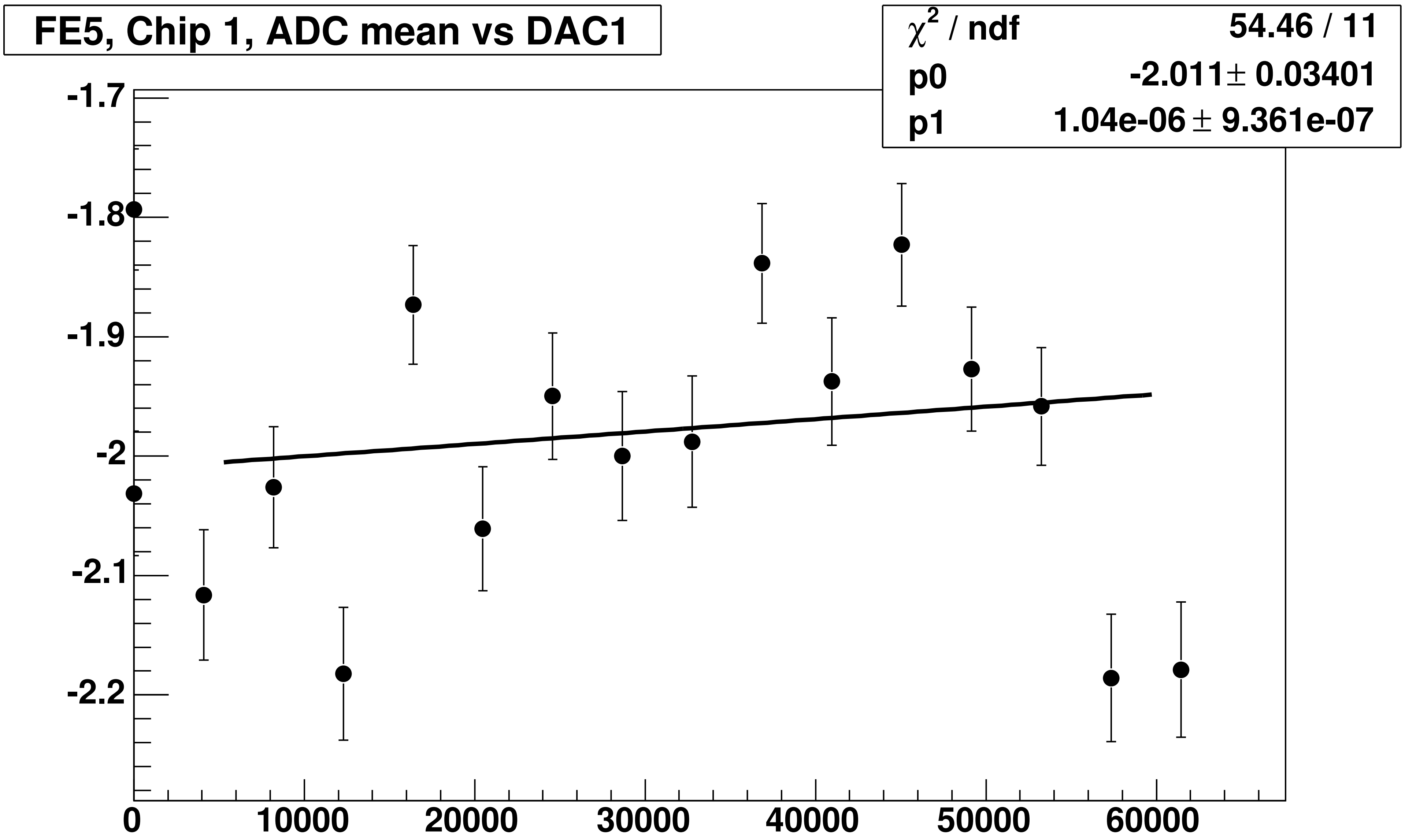

FE5, Chip 0, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



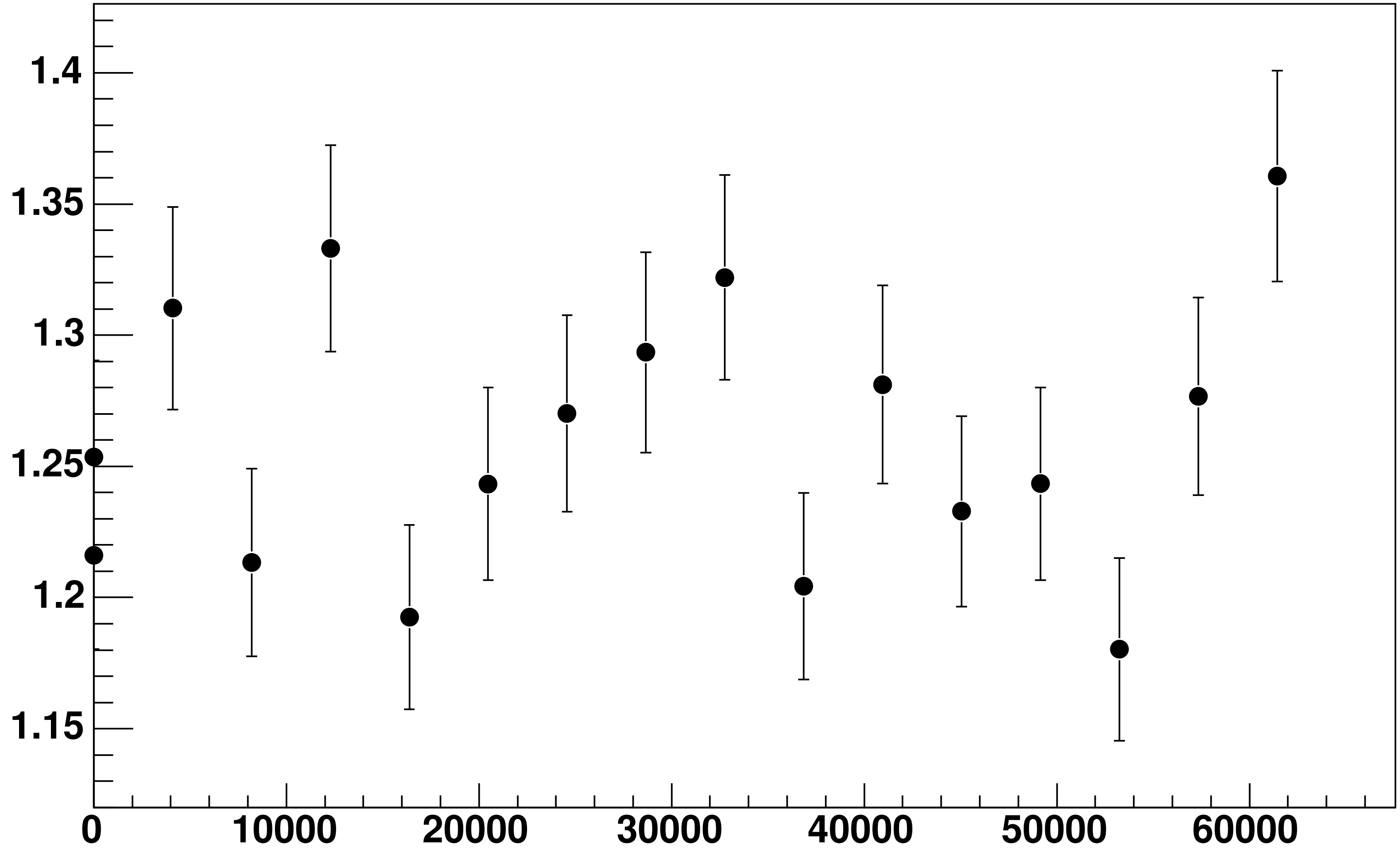
FE5, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1969 / 11
p0 0.8379 ± 0.04198
p1 0.4523 ± 1.325e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

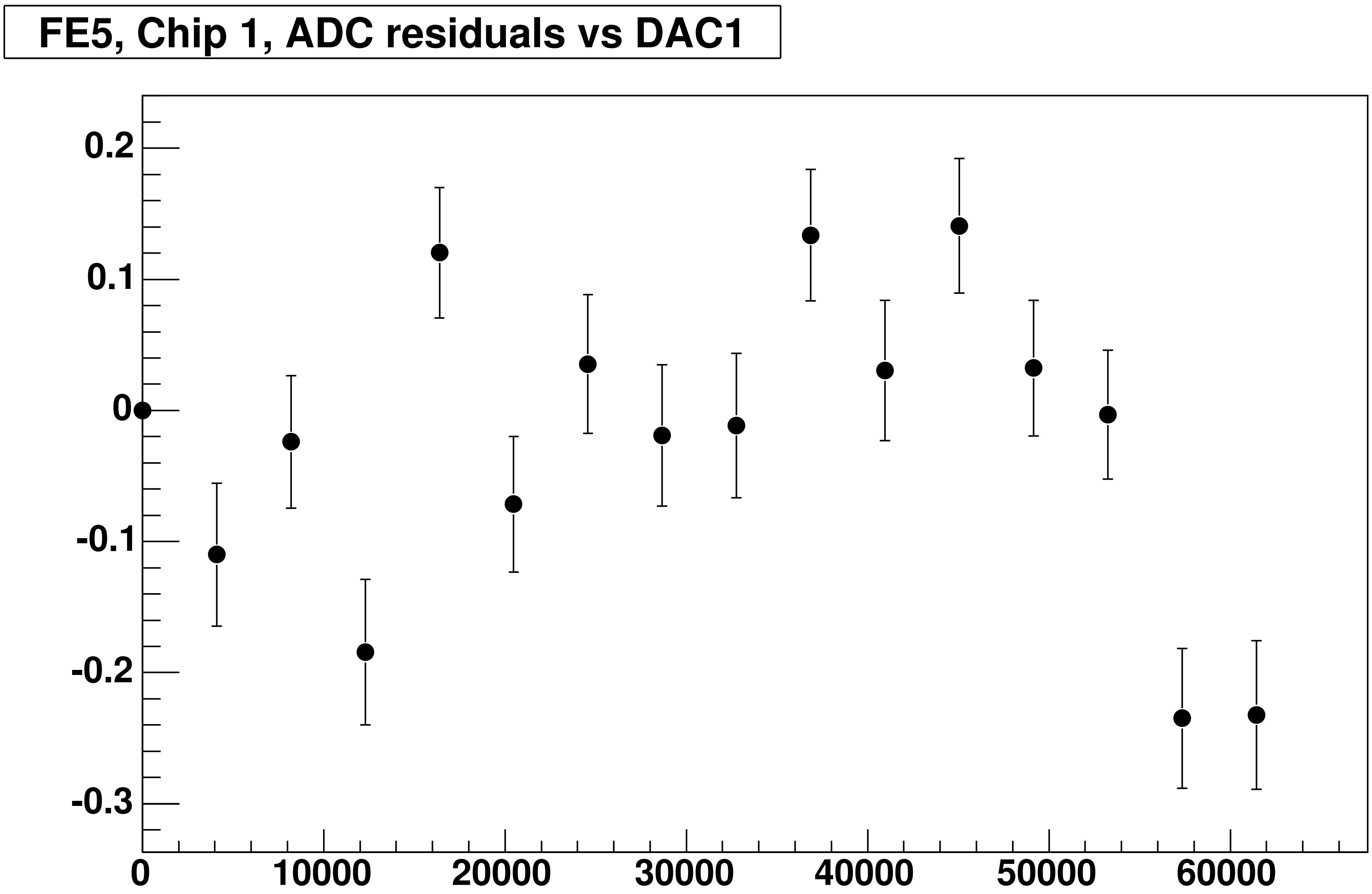

FE5, Chip 1, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

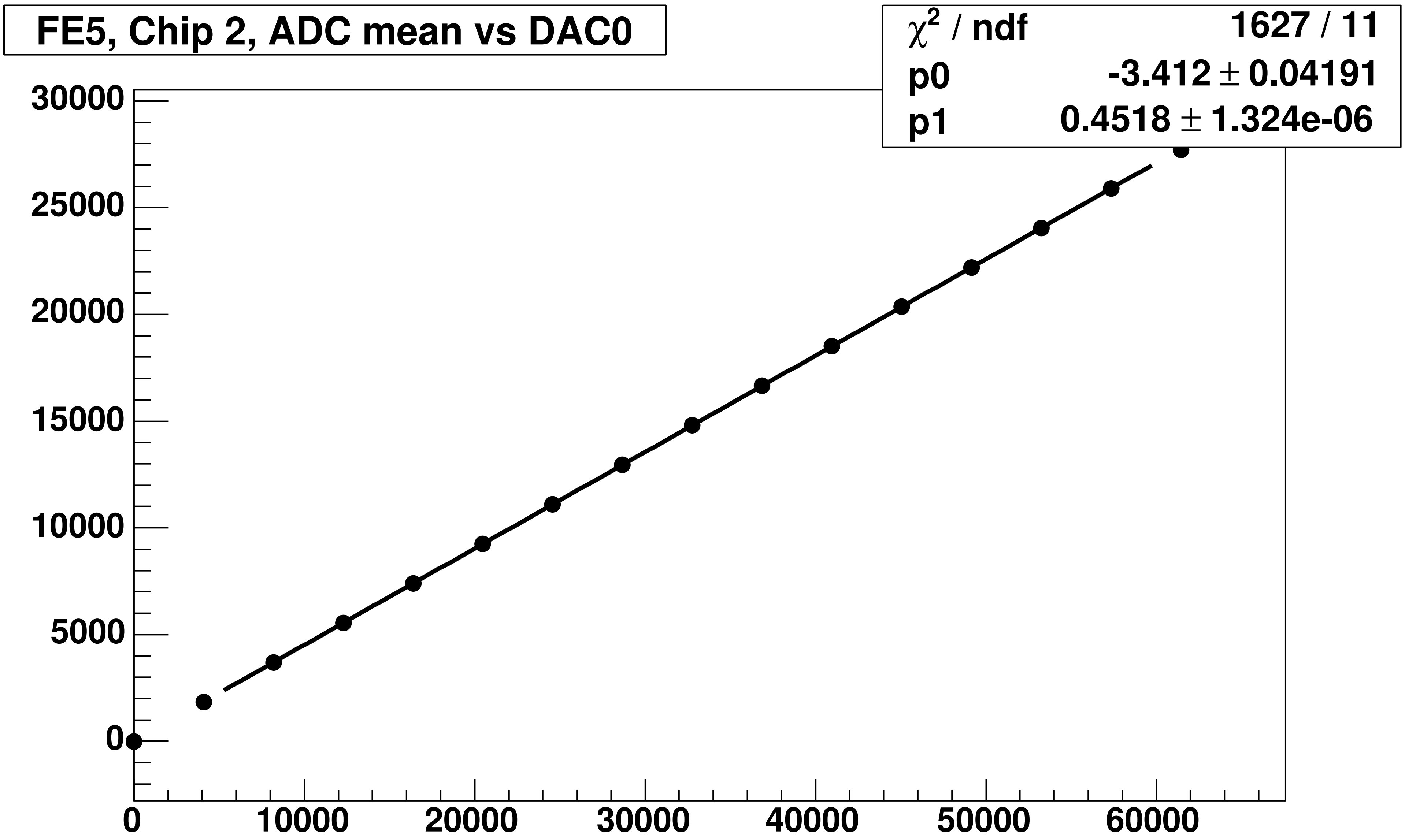

FE5, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

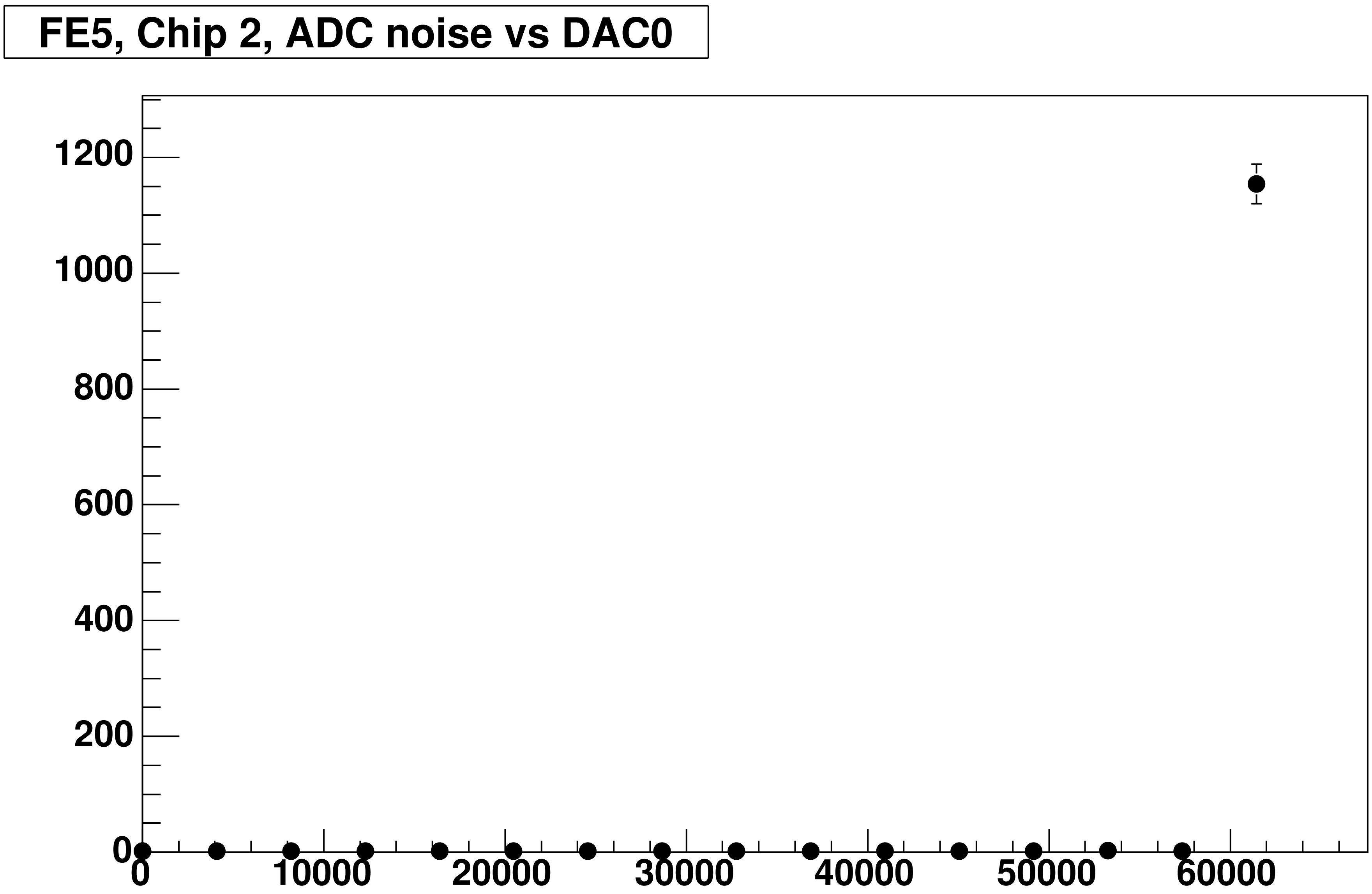

FE5, Chip 1, ADC mean vs DAC1
χ^2 / ndf 54.46 / 11
p0 -2.011 ± 0.03401
p1 1.04e-06 ± 9.361e-07
-1.7
-1.8
-1.9
-2
-2.1
-2.2
0
10000
20000
30000
40000
50000
60000

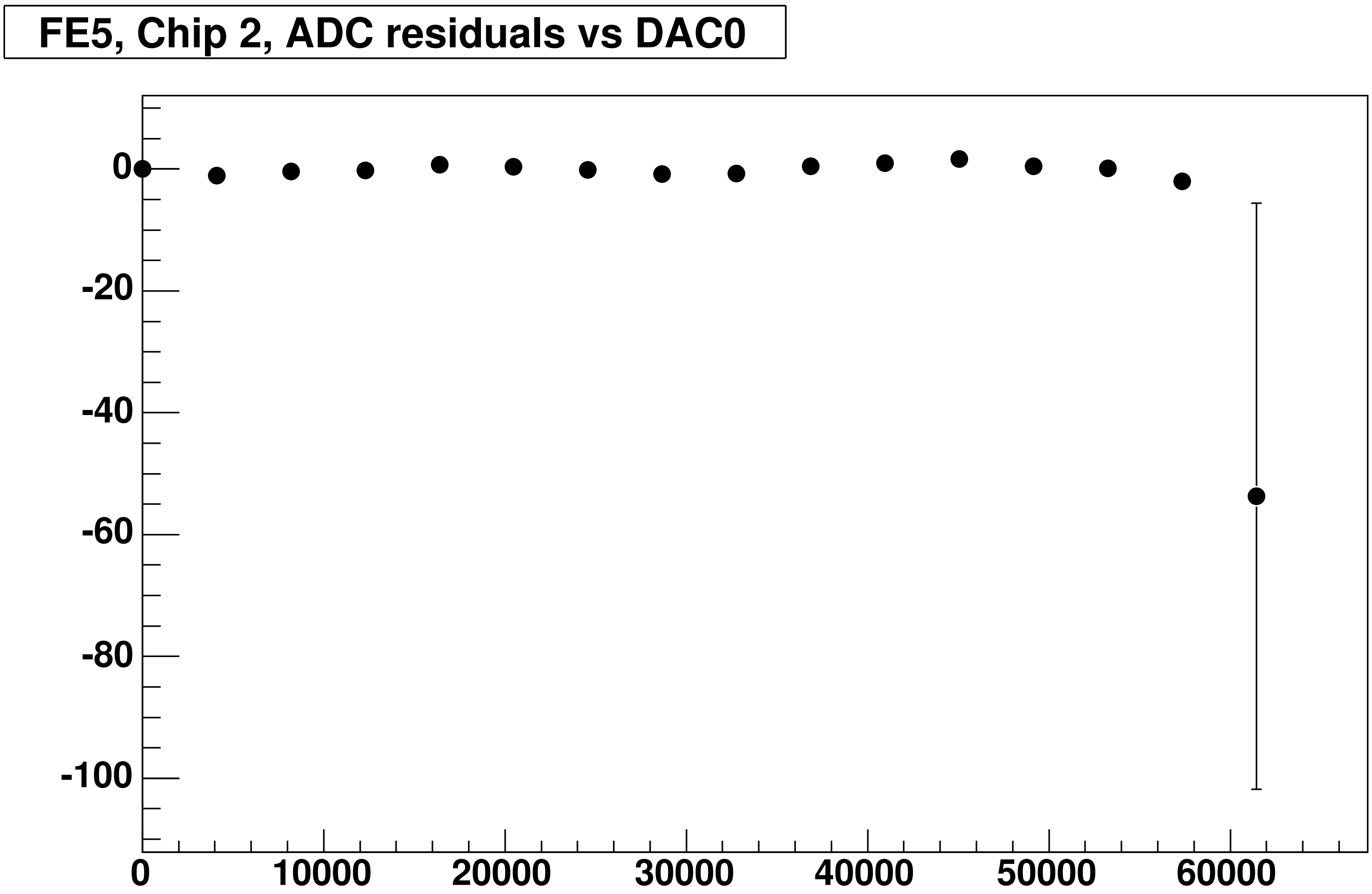
FE5, Chip 1, ADC noise vs DAC1

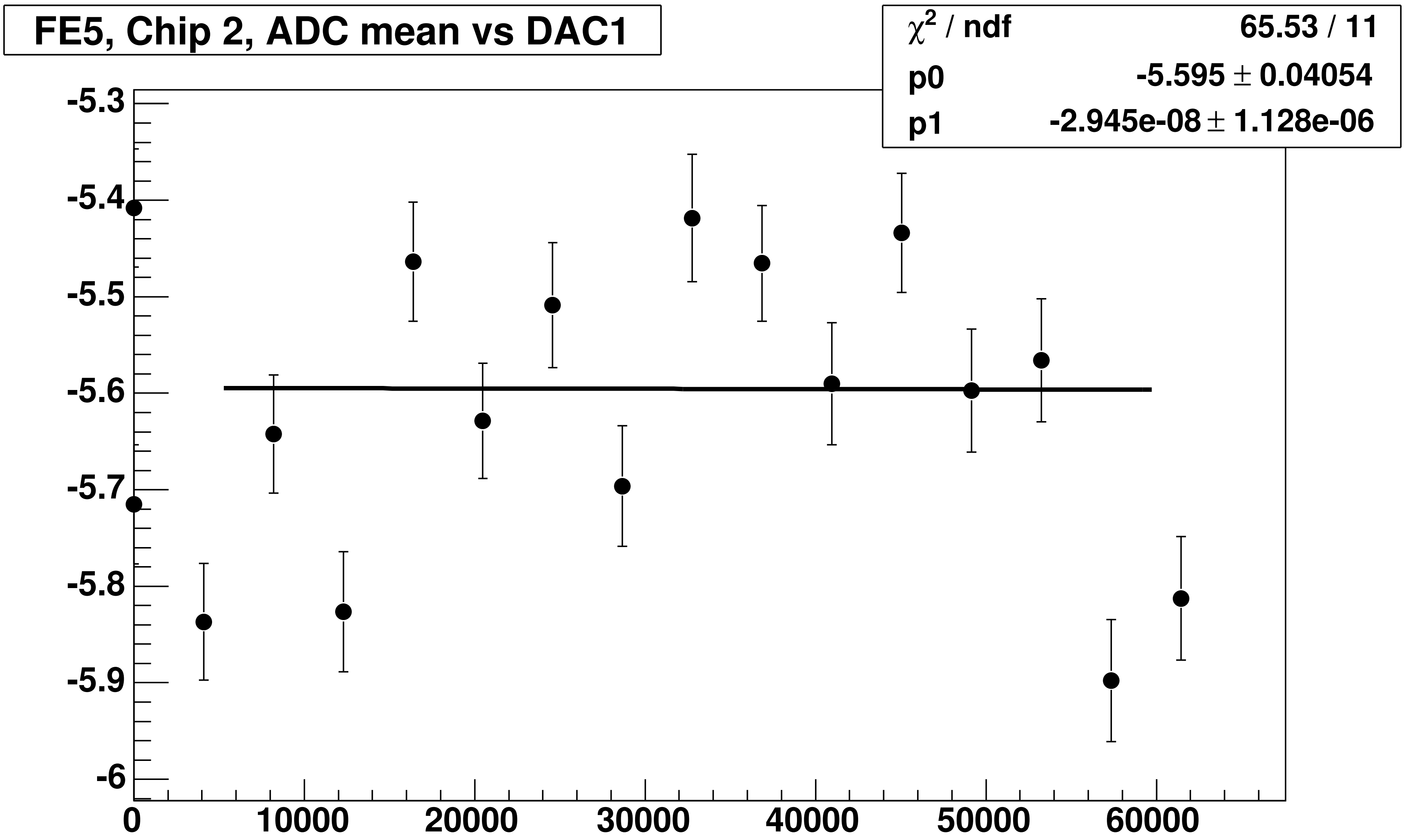


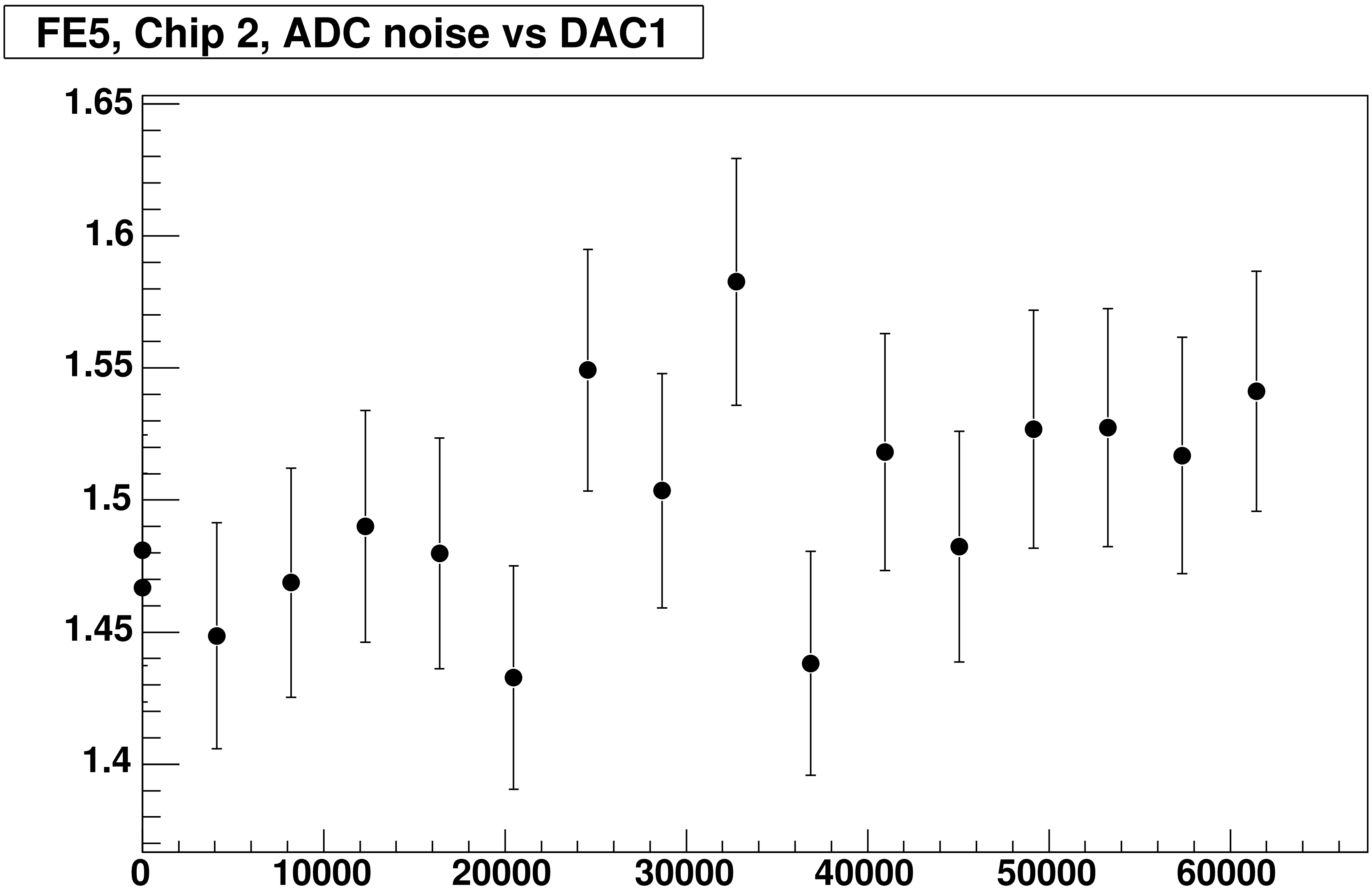

FE5, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

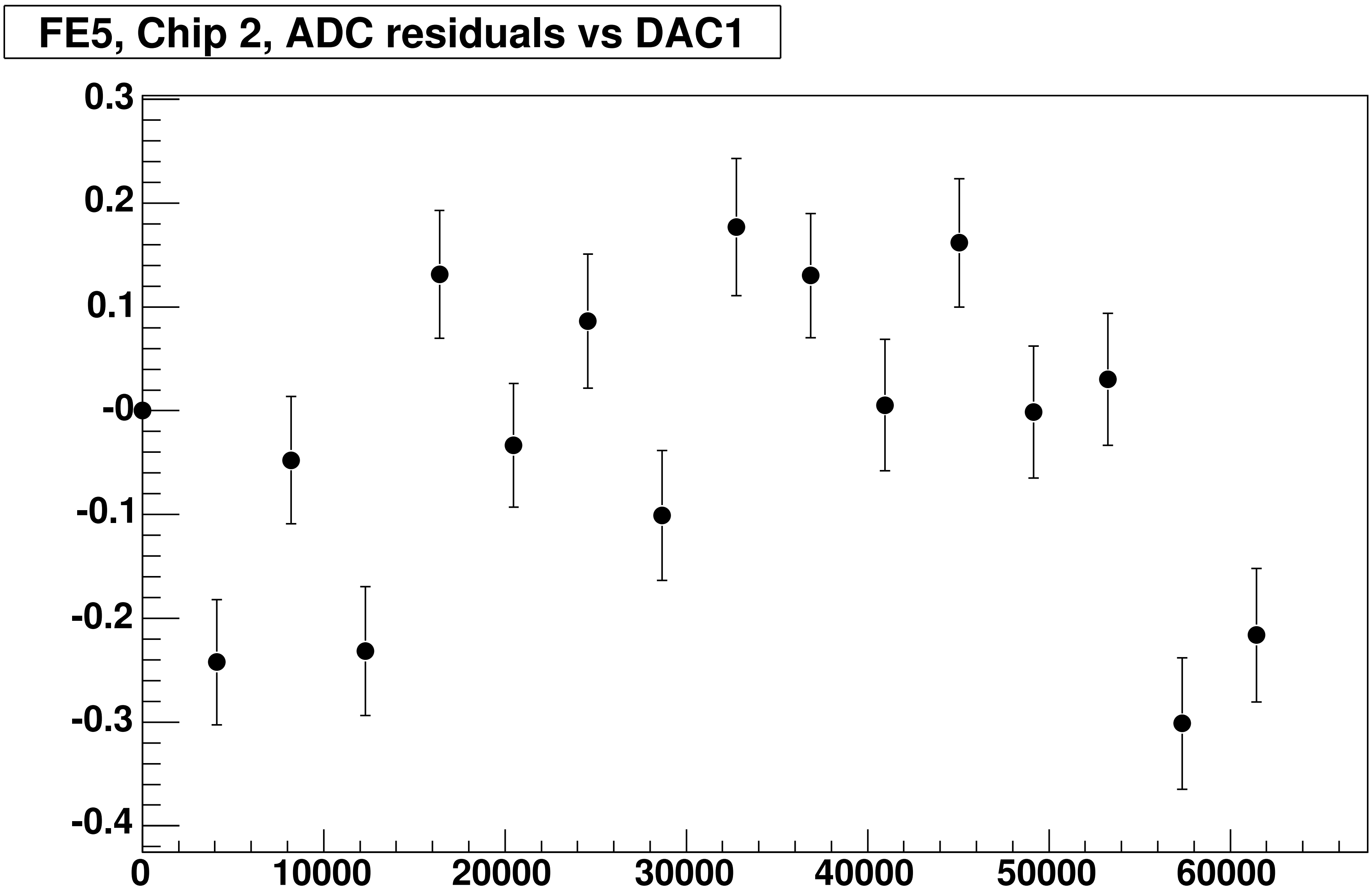

FE5, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1627 / 11
p0 -3.412 ± 0.04191
p1 0.4518 ± 1.324e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

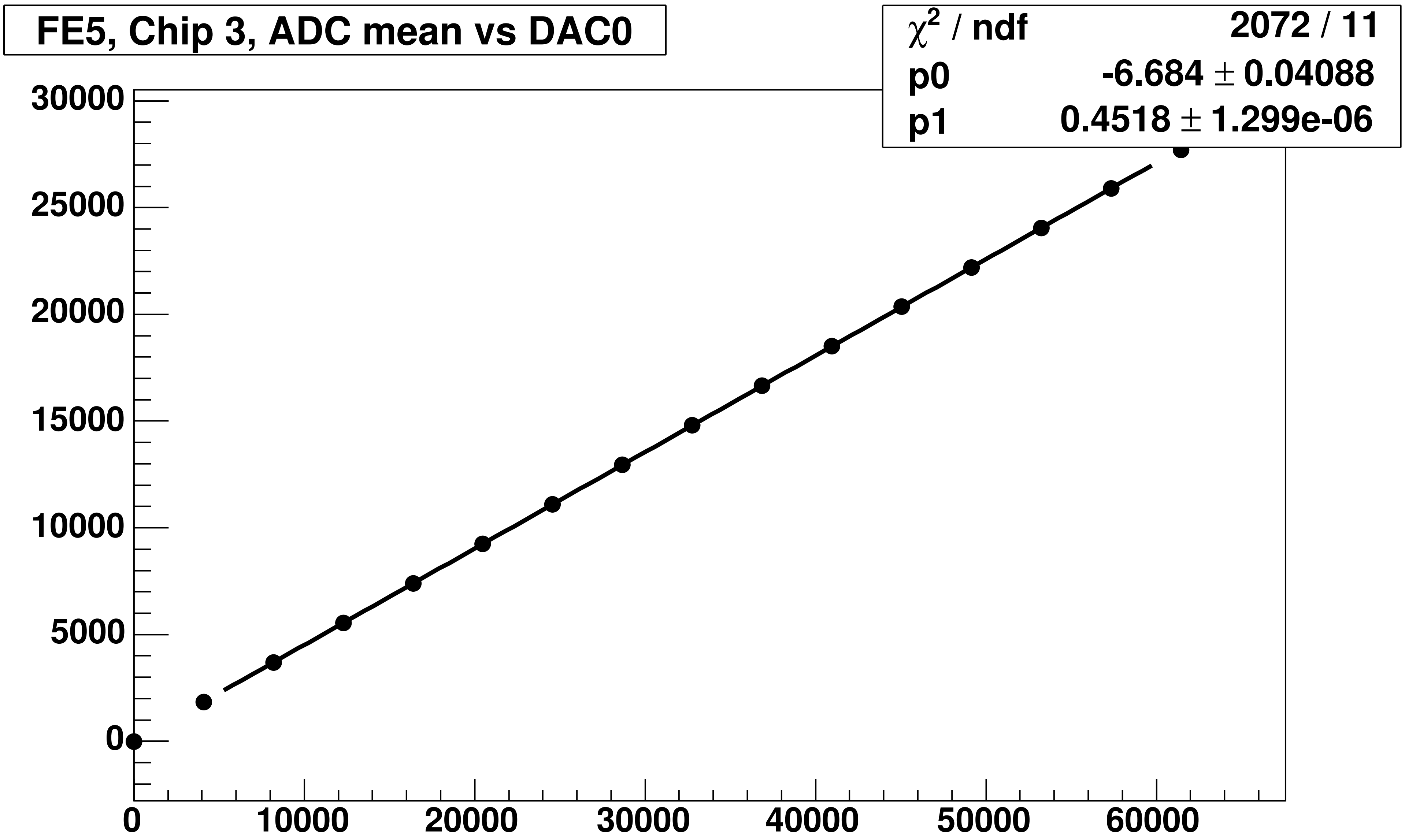

FE5, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE5, Chip 2, ADC mean vs DAC1
χ^2 / ndf 65.53 / 11
p0 -5.595 ± 0.04054
p1 -2.945e-08 ± 1.128e-06
-5.3
-5.4
-5.5
-5.6
-5.7
-5.8
-5.9
-6
0
10000
20000
30000
40000
50000
60000

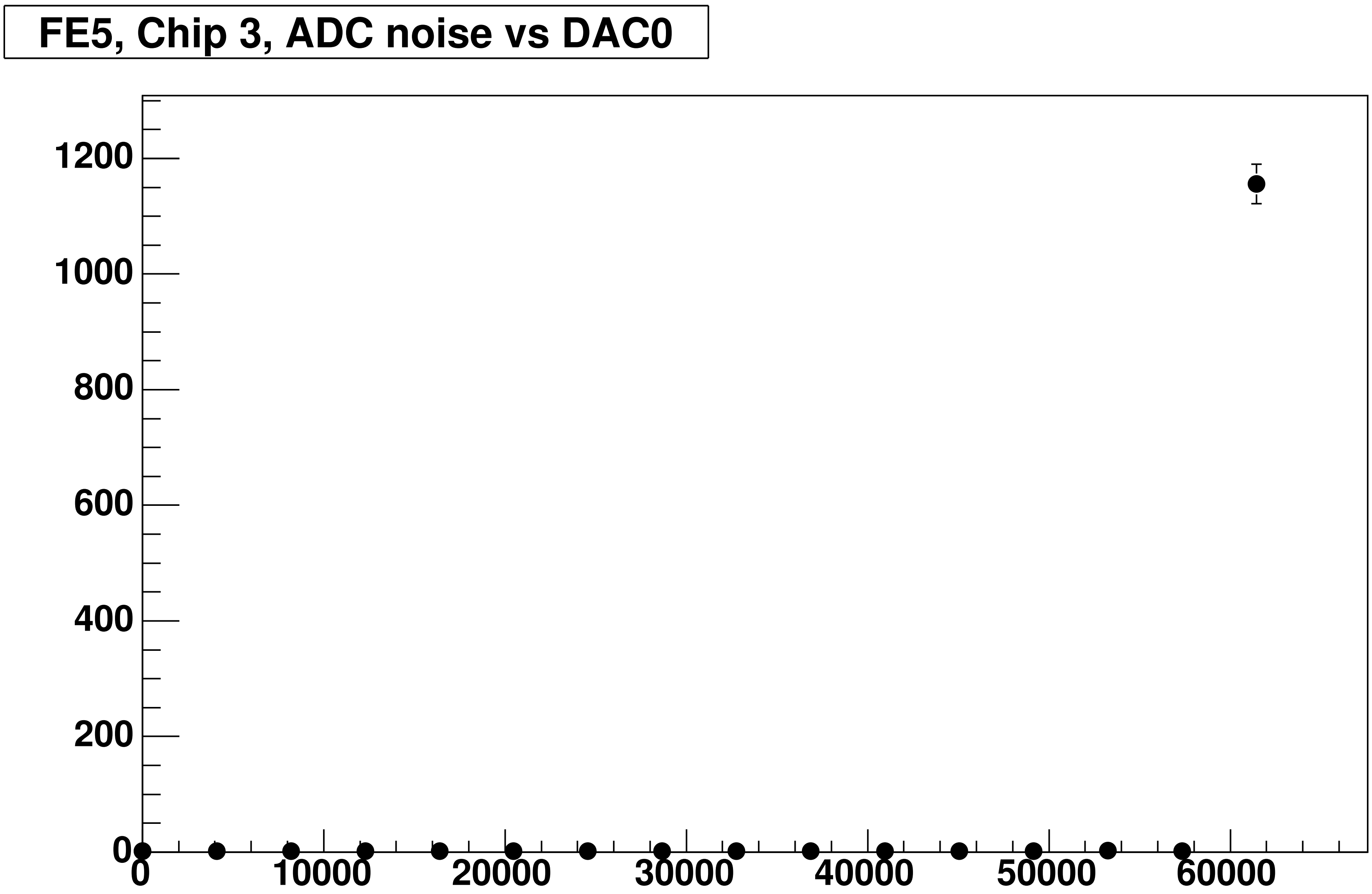

FE5, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

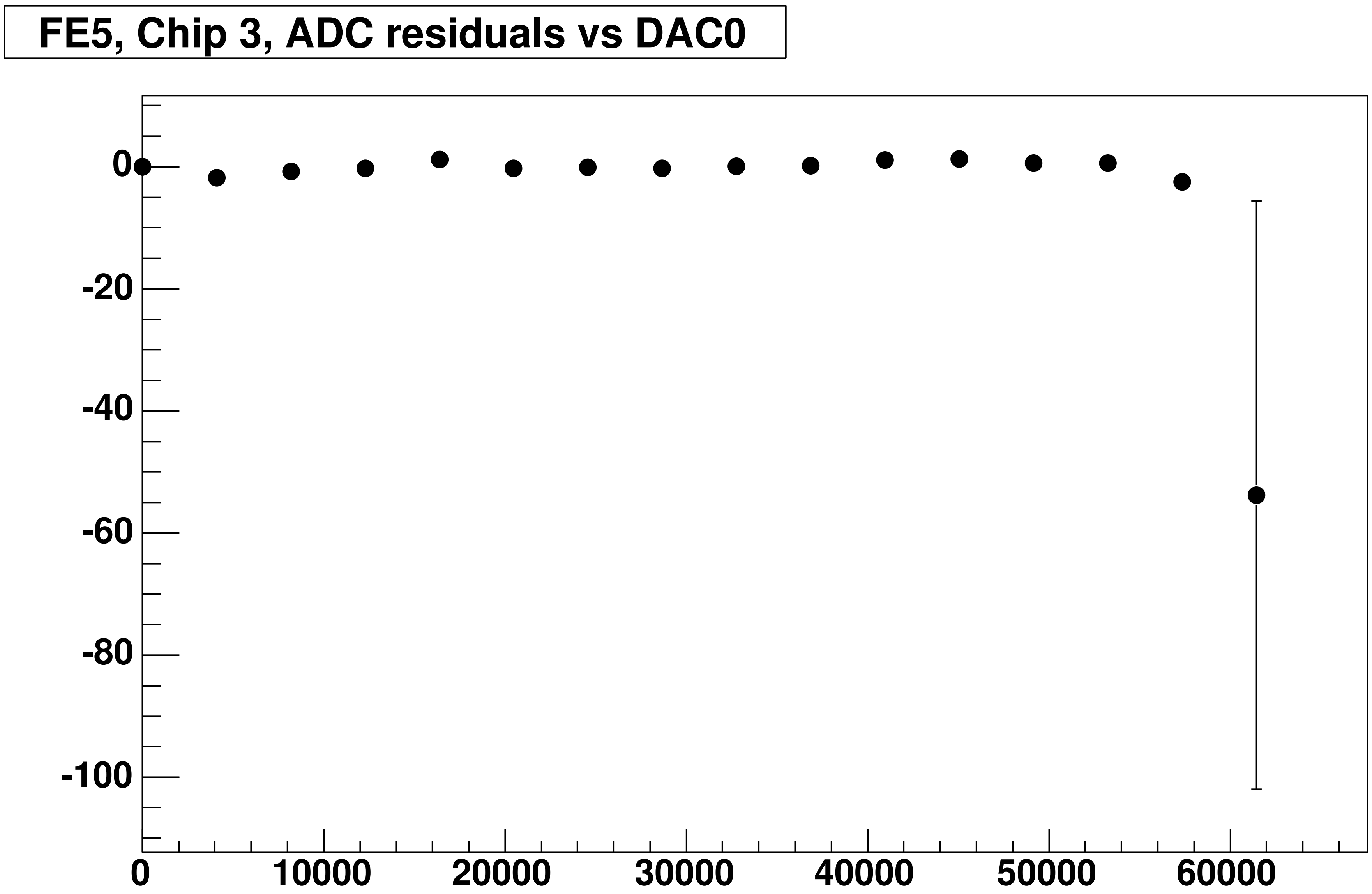


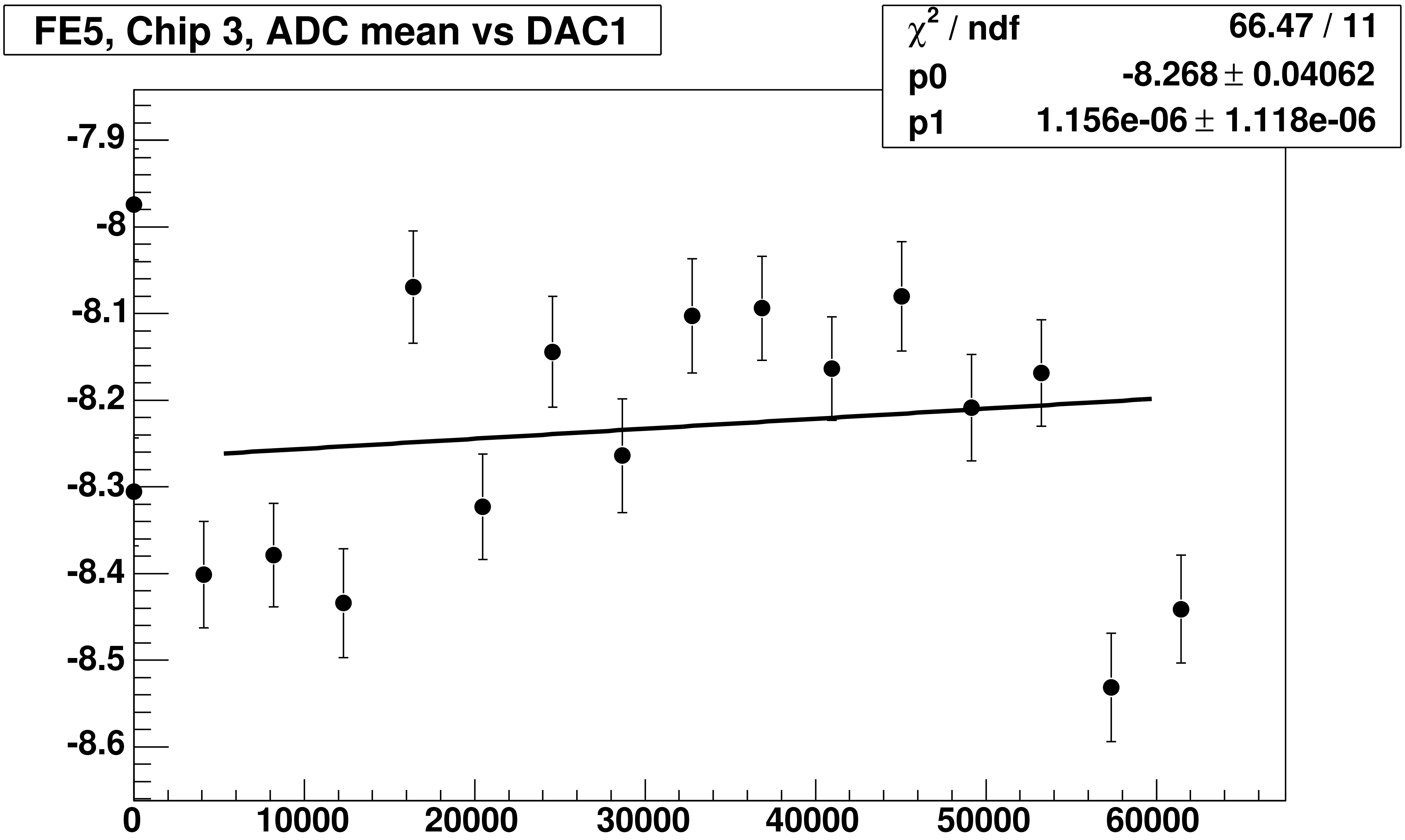
FE5, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



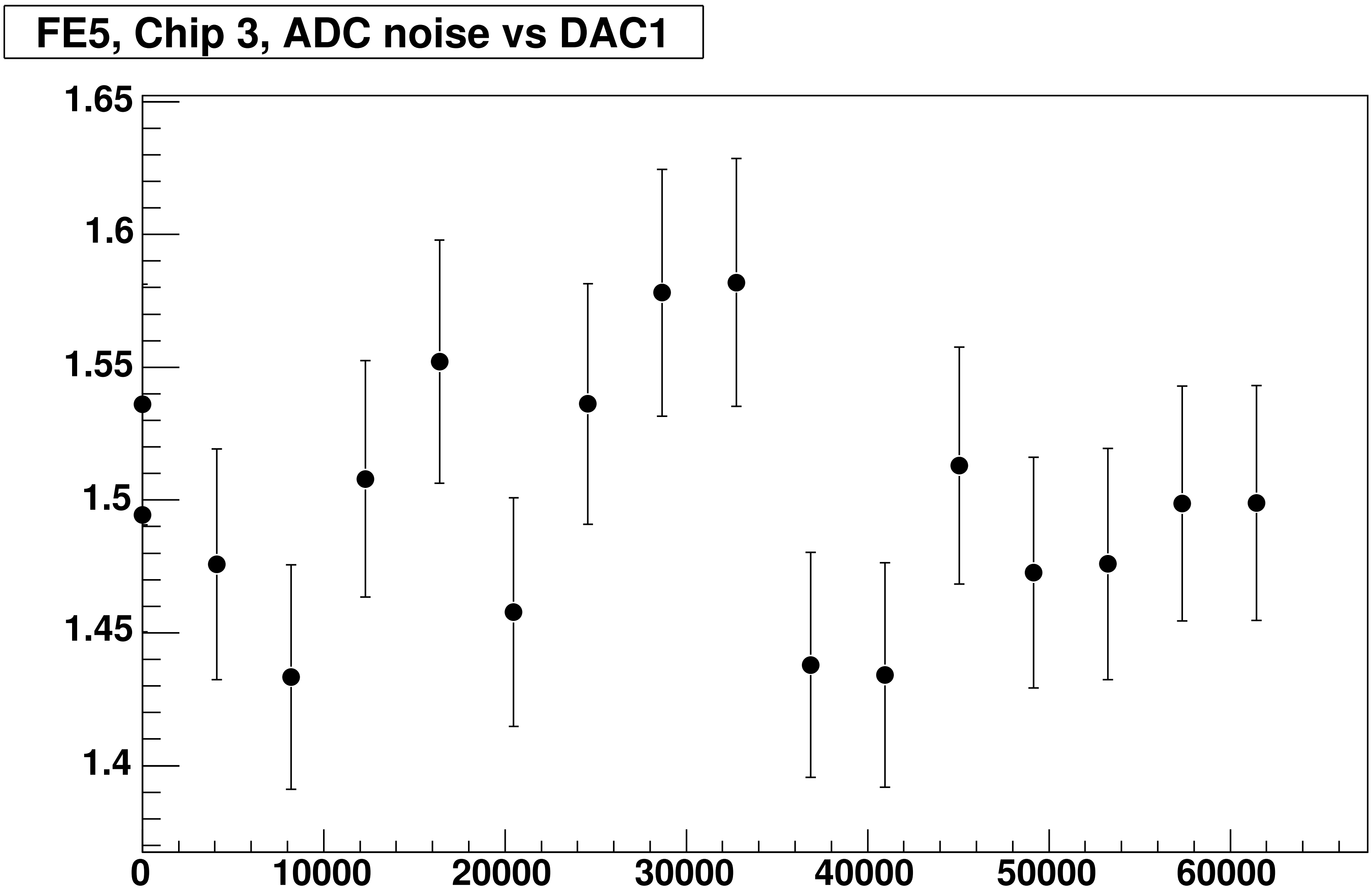
FE5, Chip 3, ADC mean vs DAC0
χ^2 / ndf 2072 / 11
p0 -6.684 ± 0.04088
p1 0.4518 ± 1.299e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

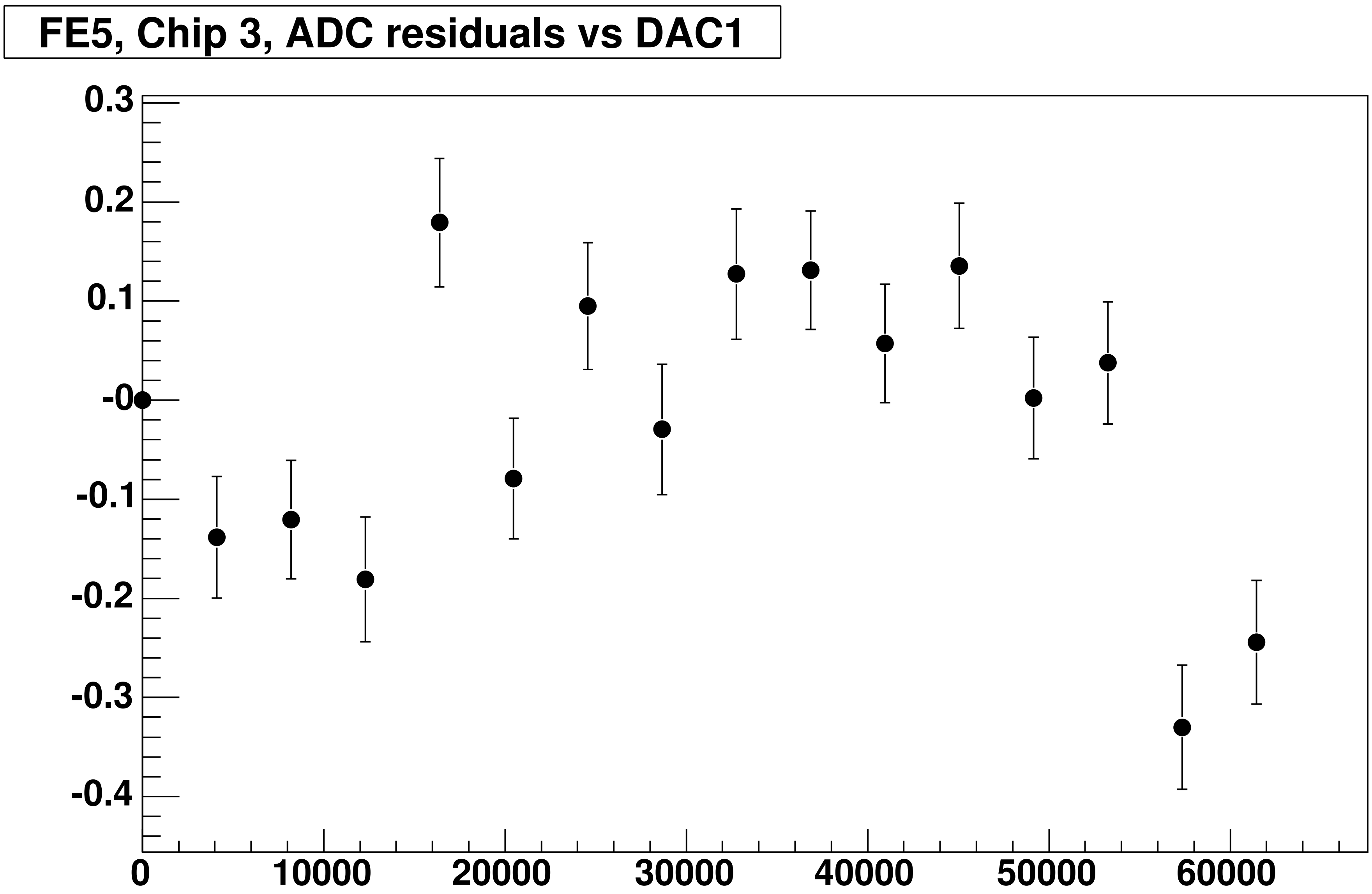

FE5, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

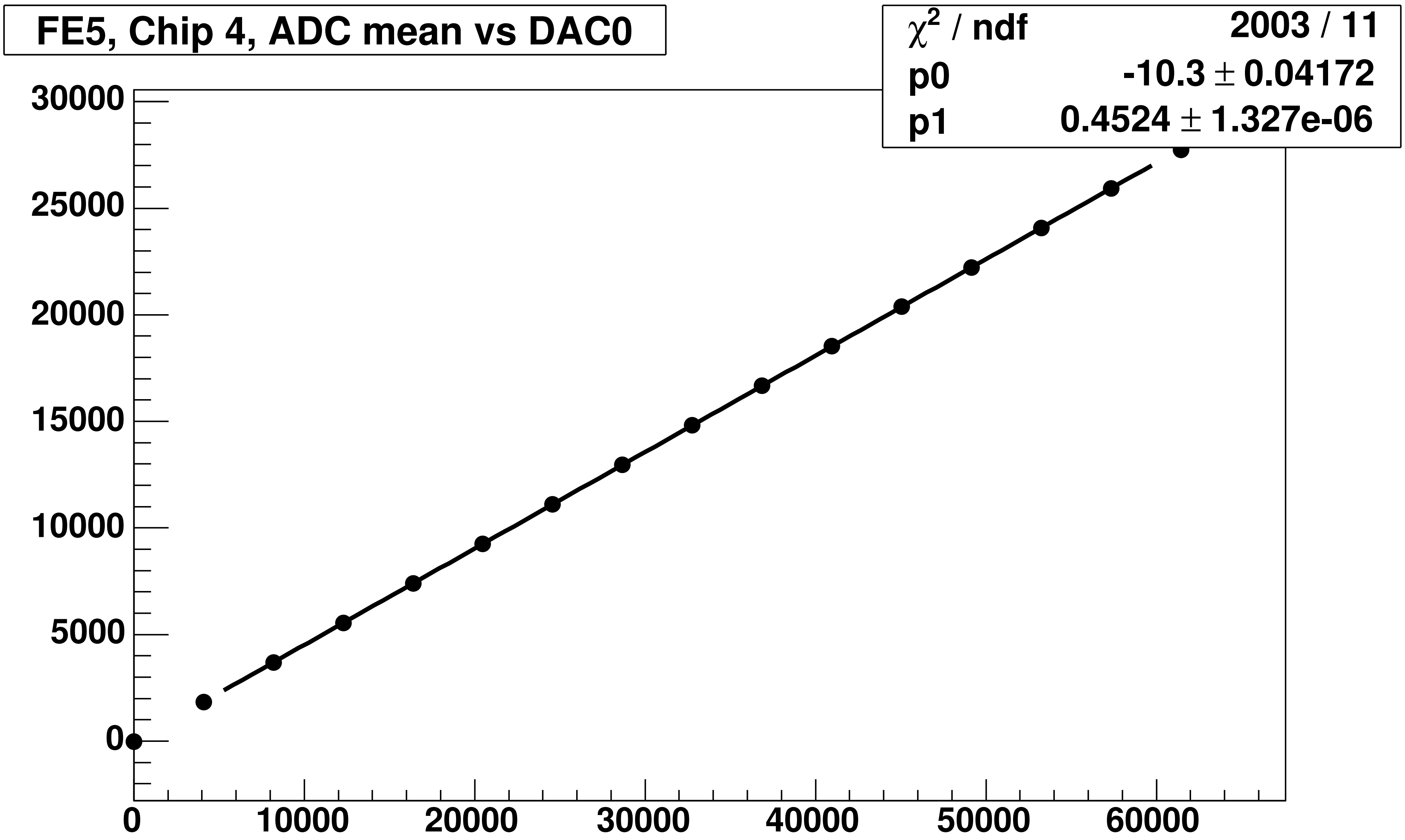

FE5, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

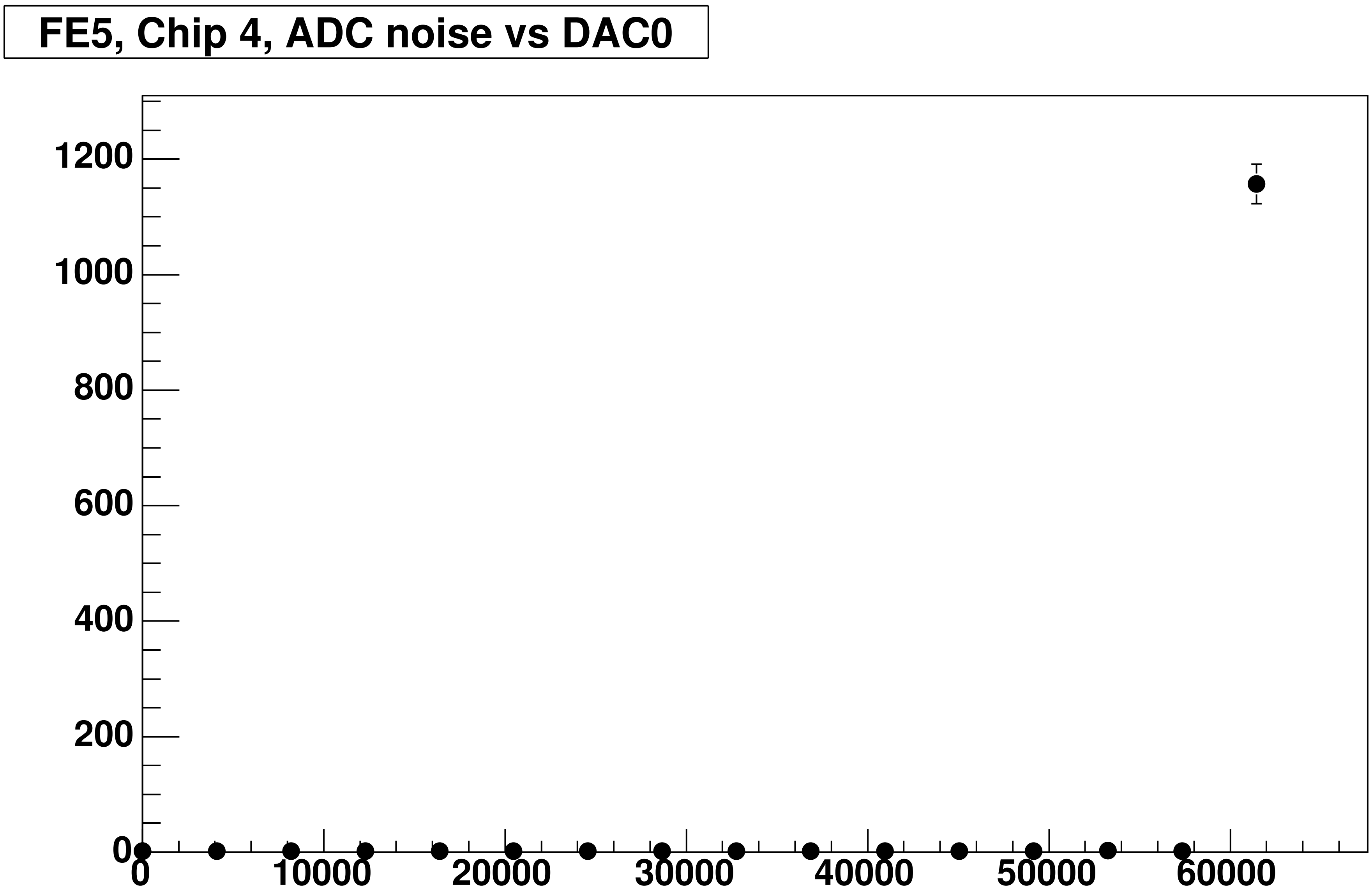


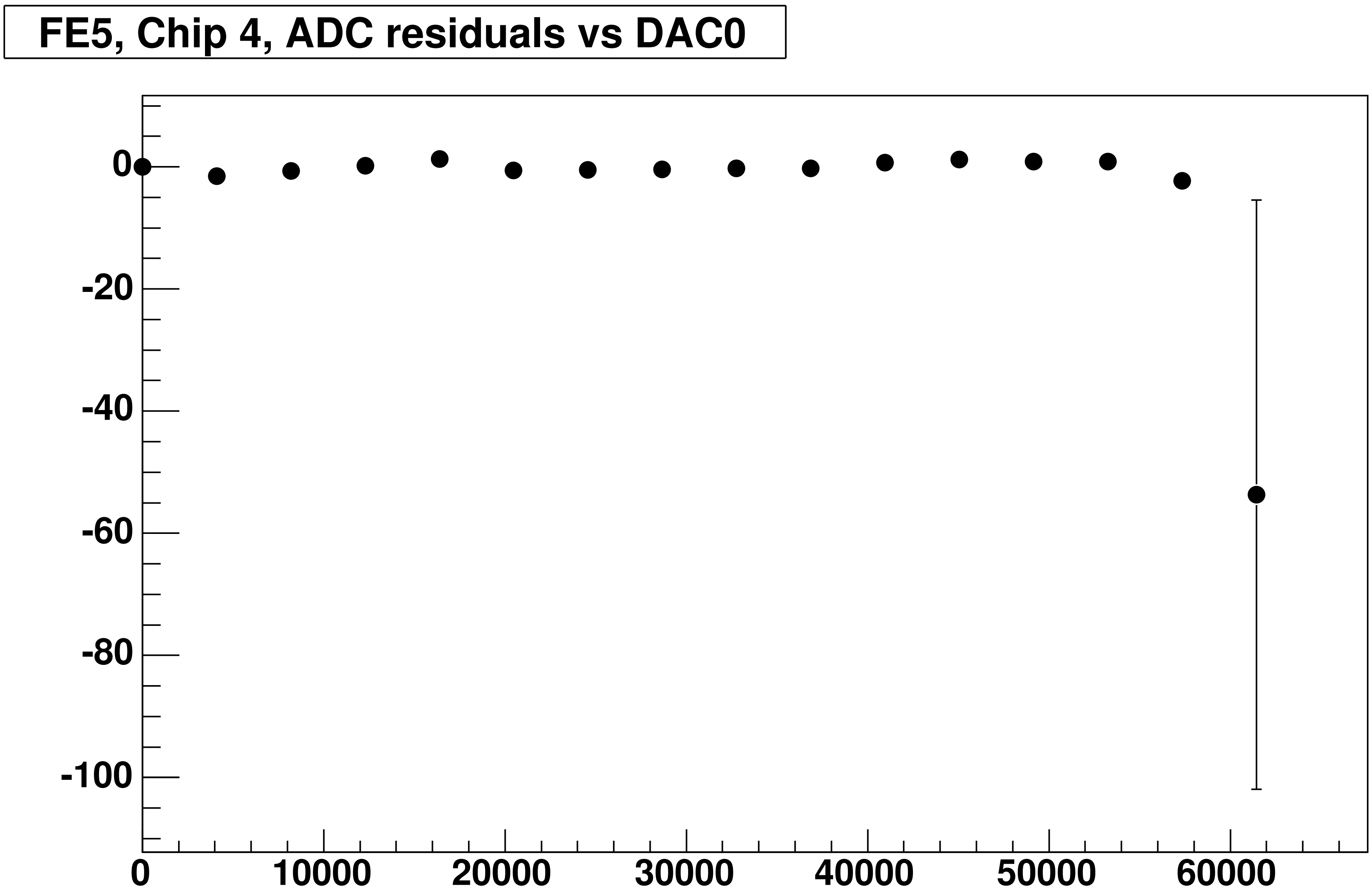
FE5, Chip 3, ADC mean vs DAC1
χ^2 / ndf 66.47 / 11
p0 -8.268 ± 0.04062
p1 1.156e-06 ± 1.118e-06
-7.9
-8
-8.1
-8.2
-8.3
-8.4
-8.5
-8.6
0
10000
20000
30000
40000
50000
60000

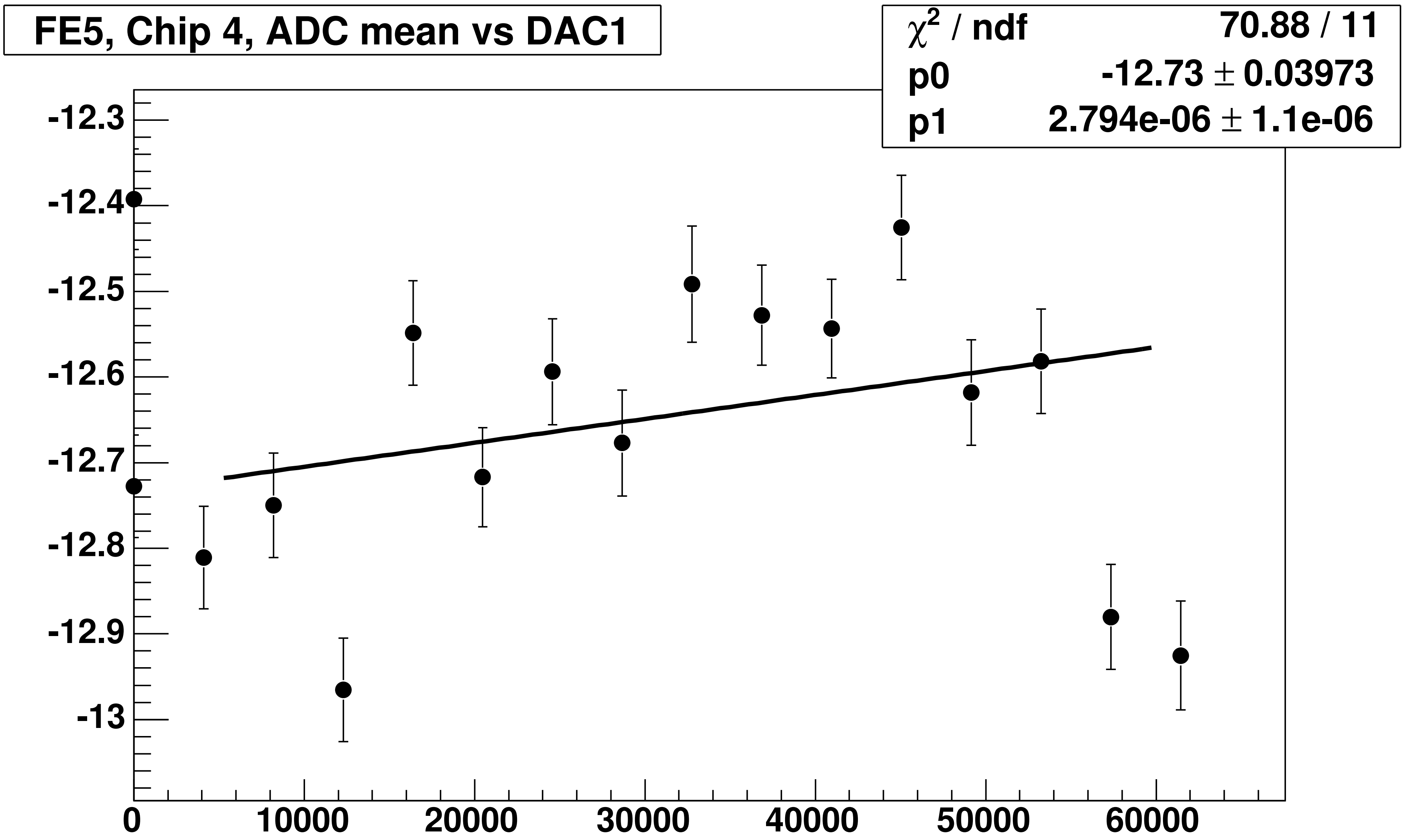

FE5, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

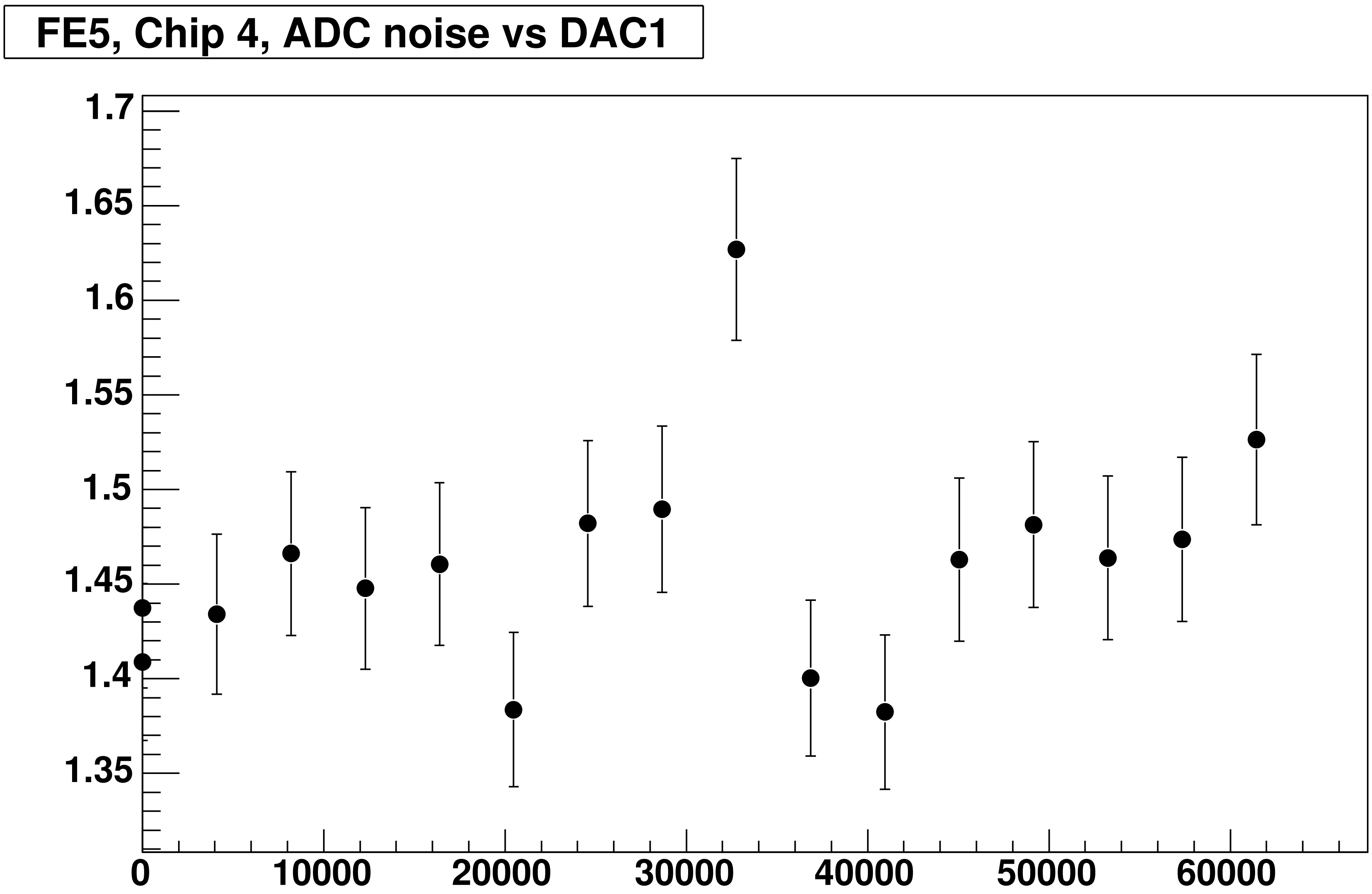

FE5, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000


FE5, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2003 / 11
p0 -10.3 ± 0.04172
p1 0.4524 ± 1.327e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

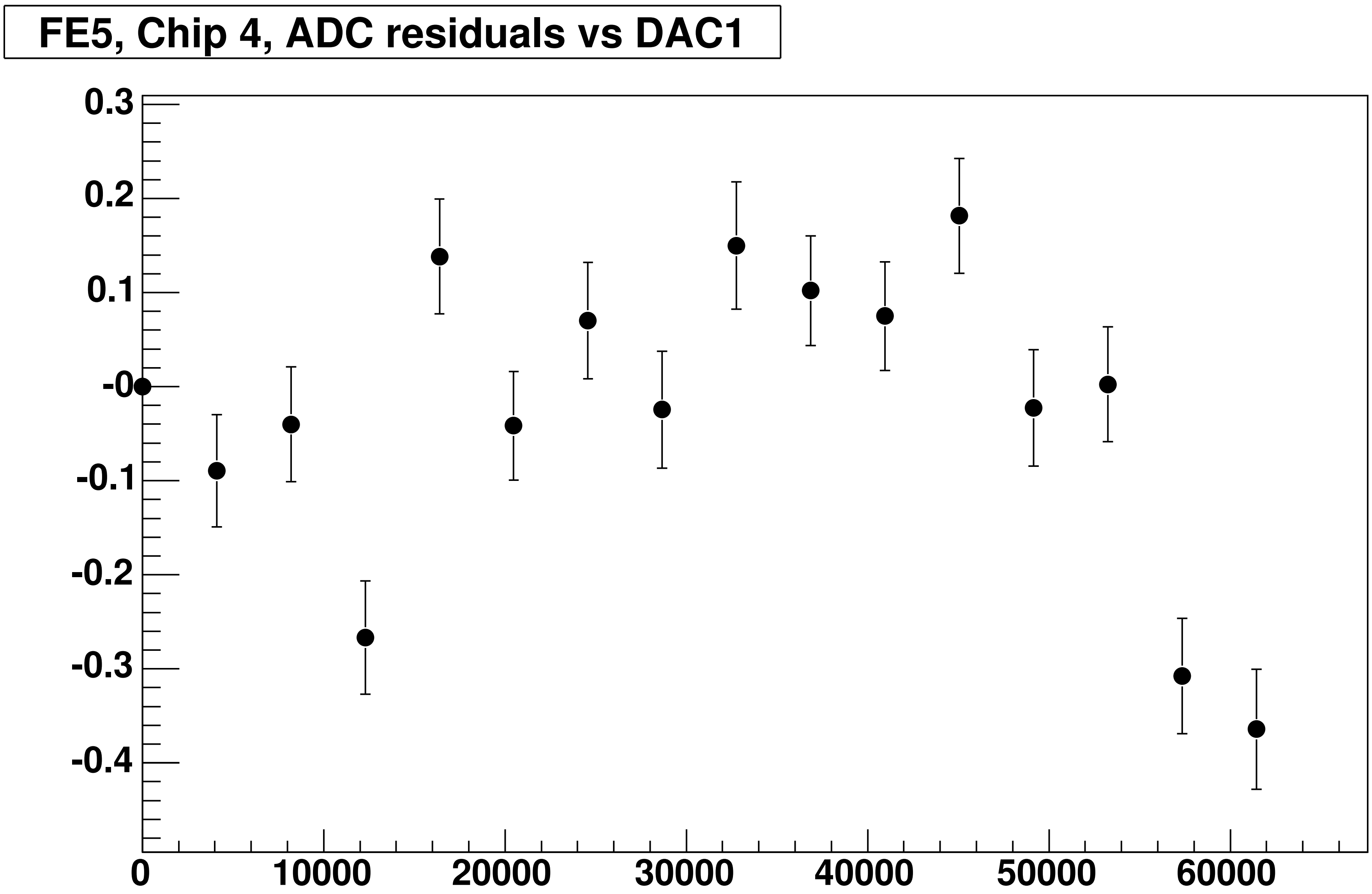

FE5, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

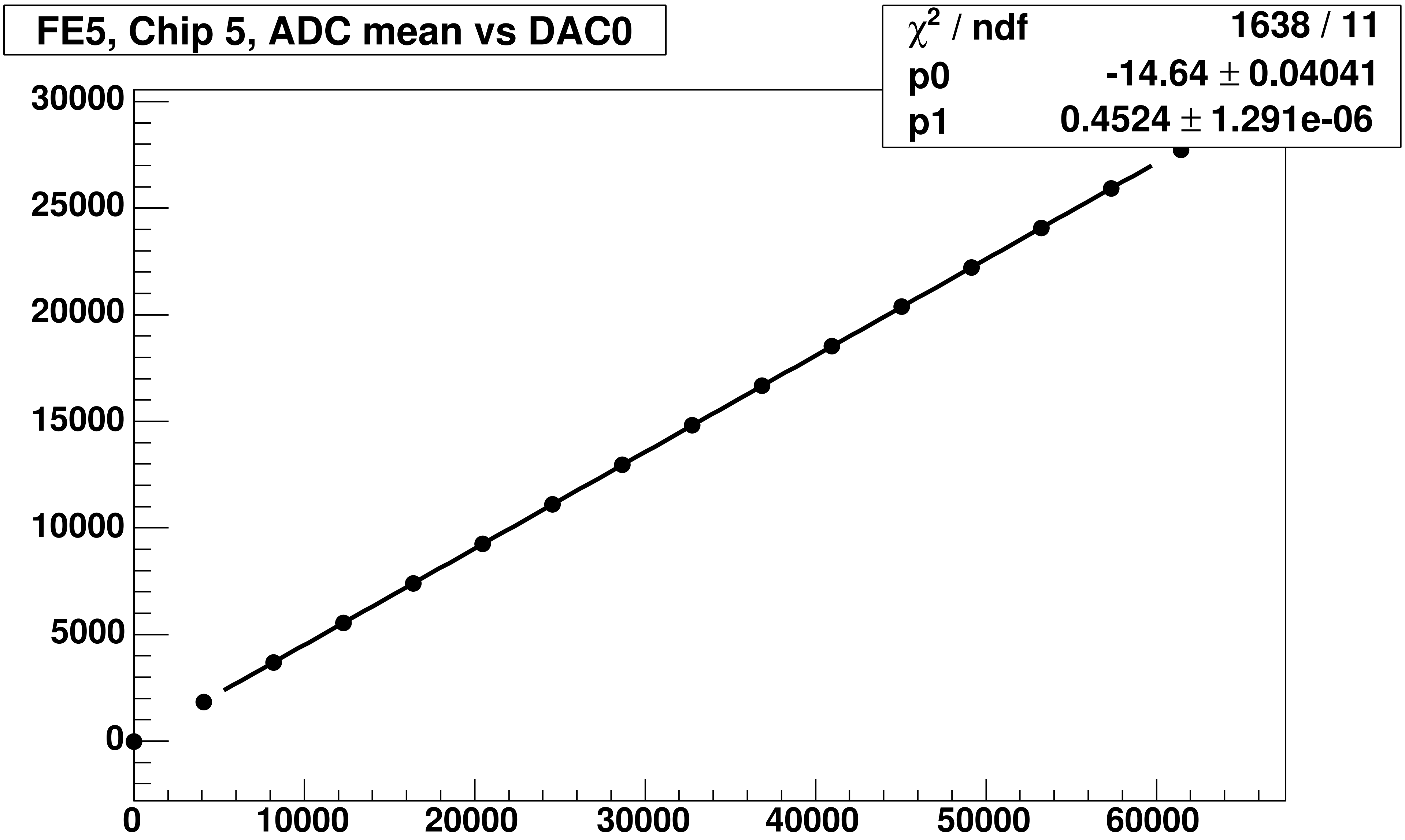

FE5, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE5, Chip 4, ADC mean vs DAC1
χ² / ndf 70.88 / 11
p0 -12.73 ± 0.03973
p1 2.794e-06 ± 1.1e-06
-12.3
-12.4
-12.5
-12.6
-12.7
-12.8
-12.9
-13
0
10000
20000
30000
40000
50000
60000

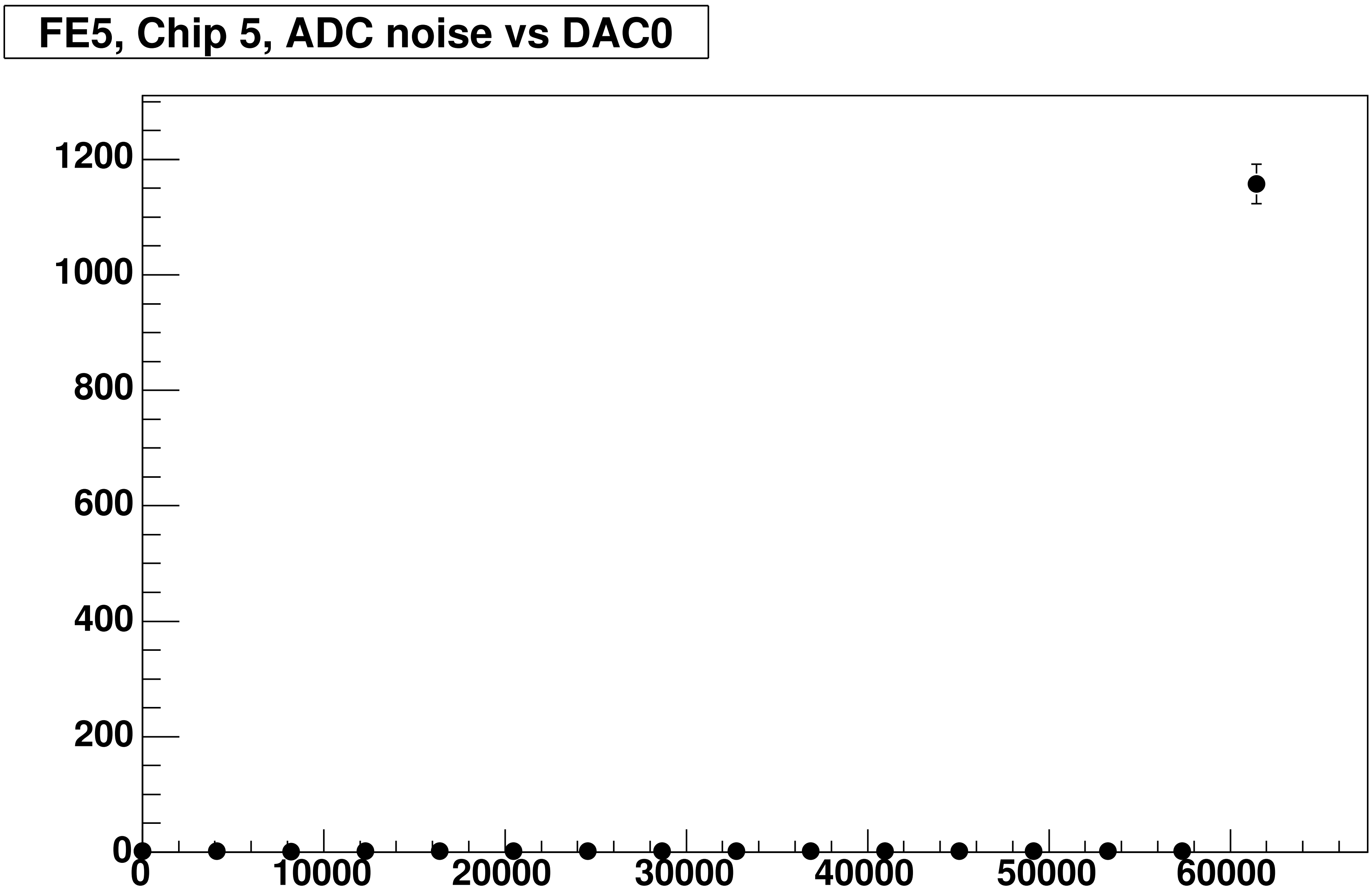


FE5, Chip 4, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

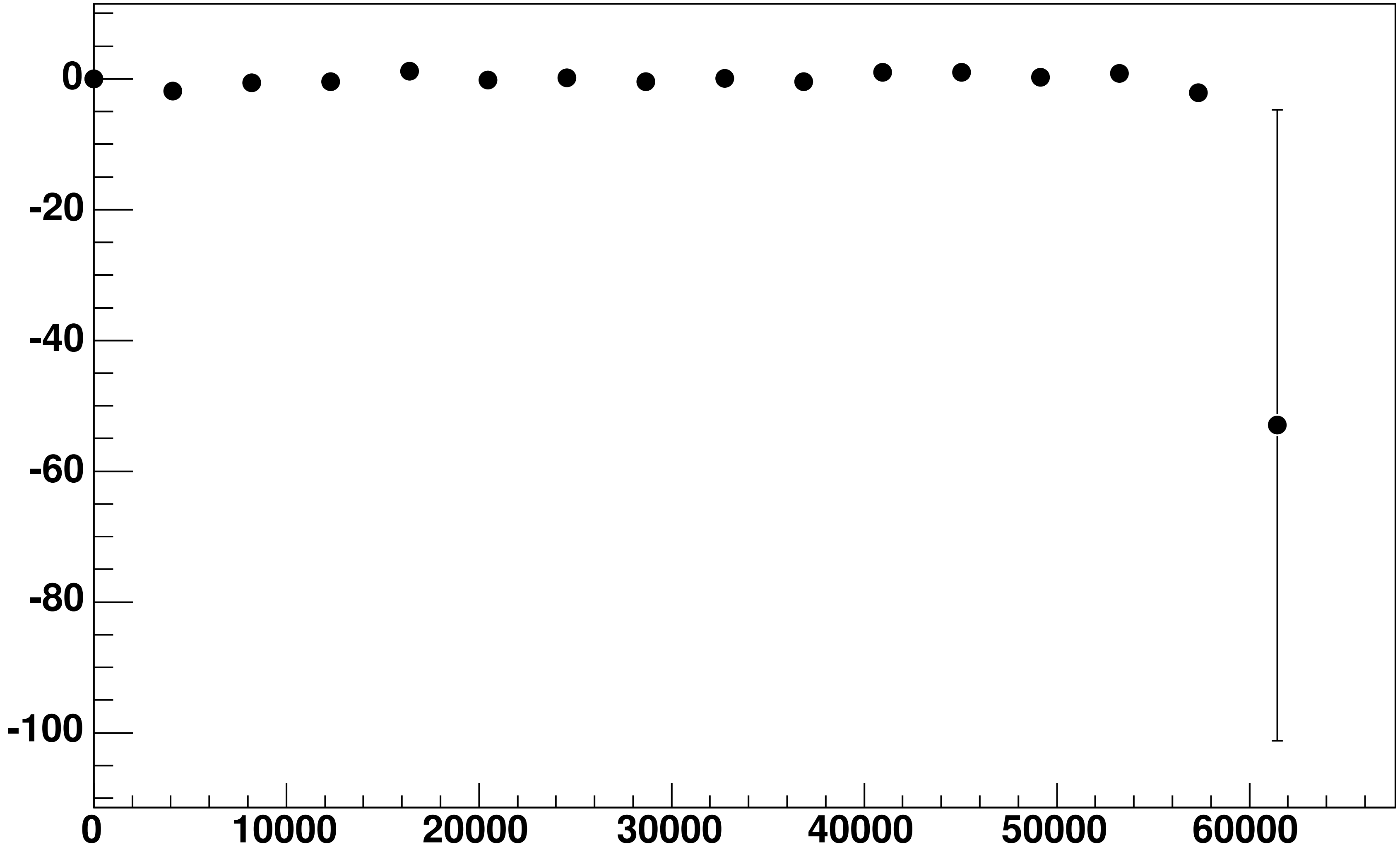

FE5, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

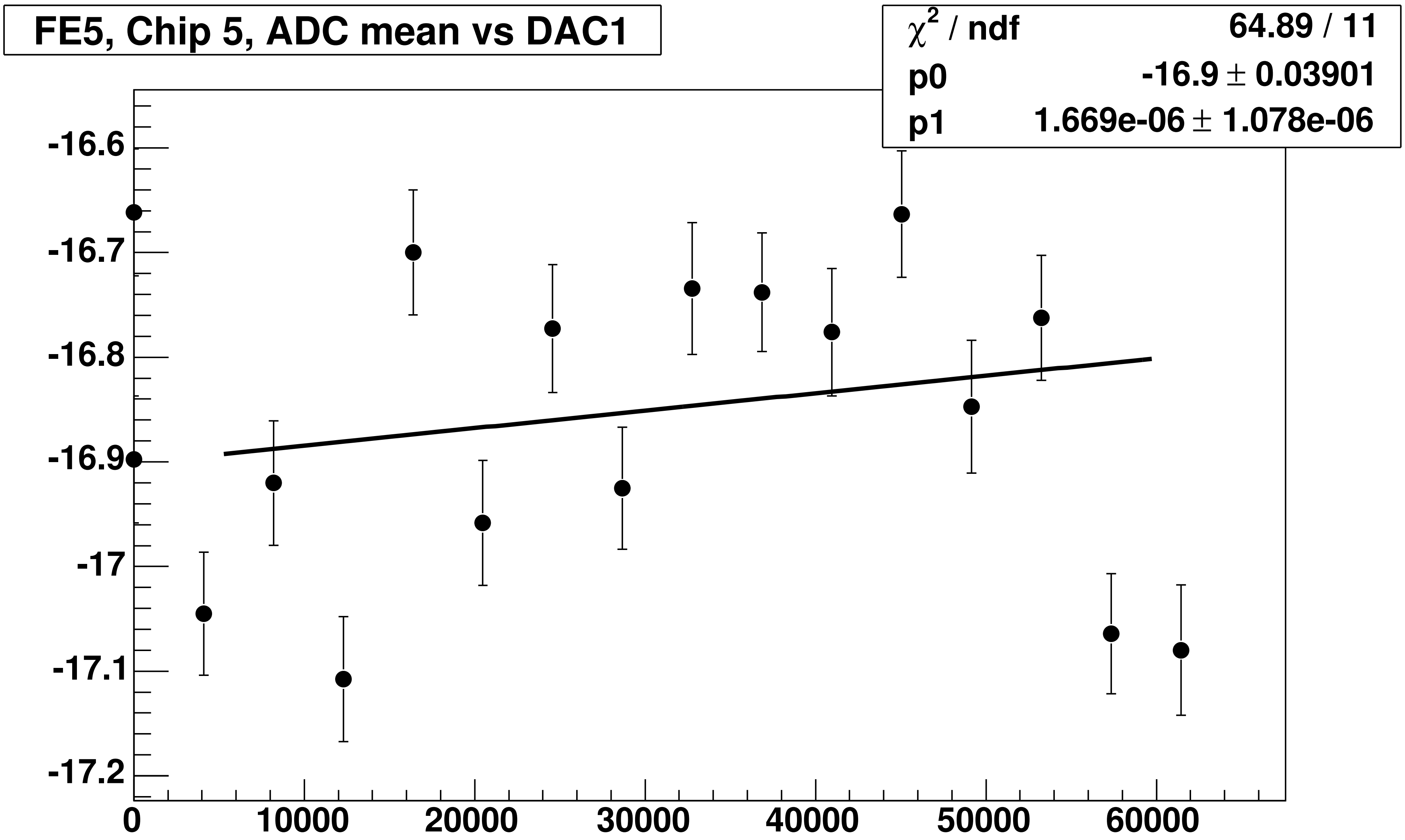


FE5, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1638 / 11
p0 -14.64 ± 0.04041
p1 0.4524 ± 1.291e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

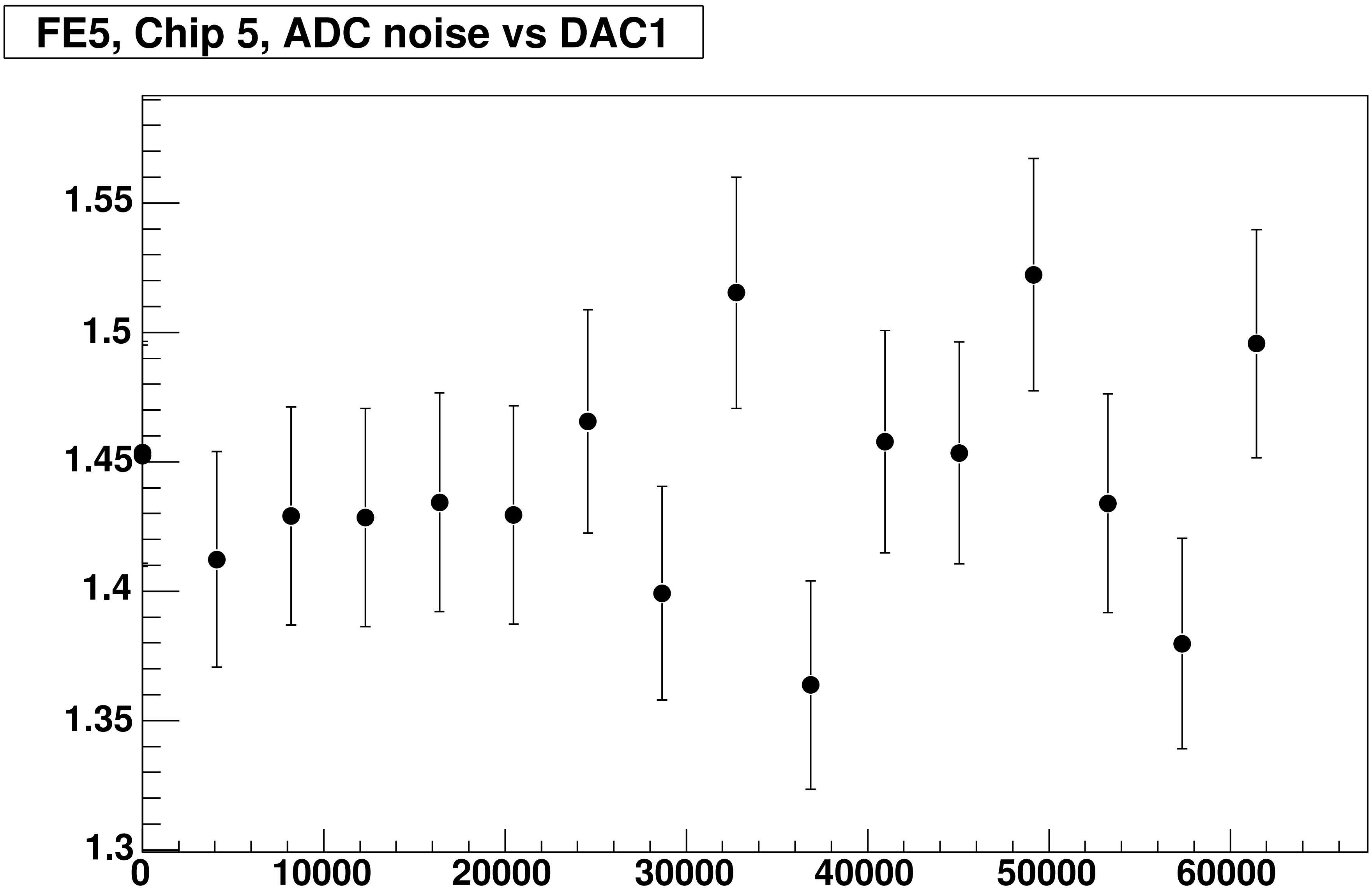

FE5, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

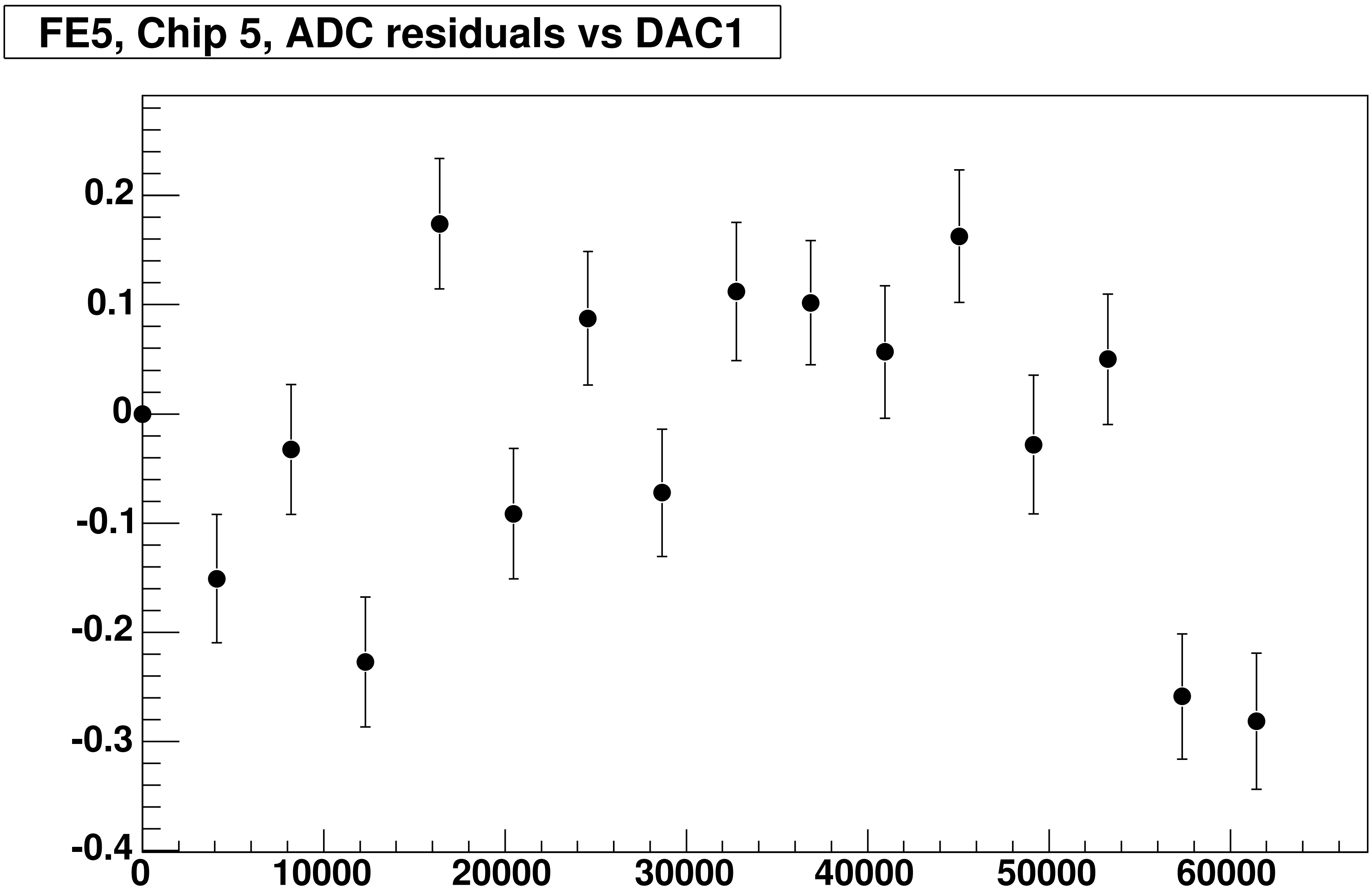
FE5, Chip 5, ADC residuals vs DAC0

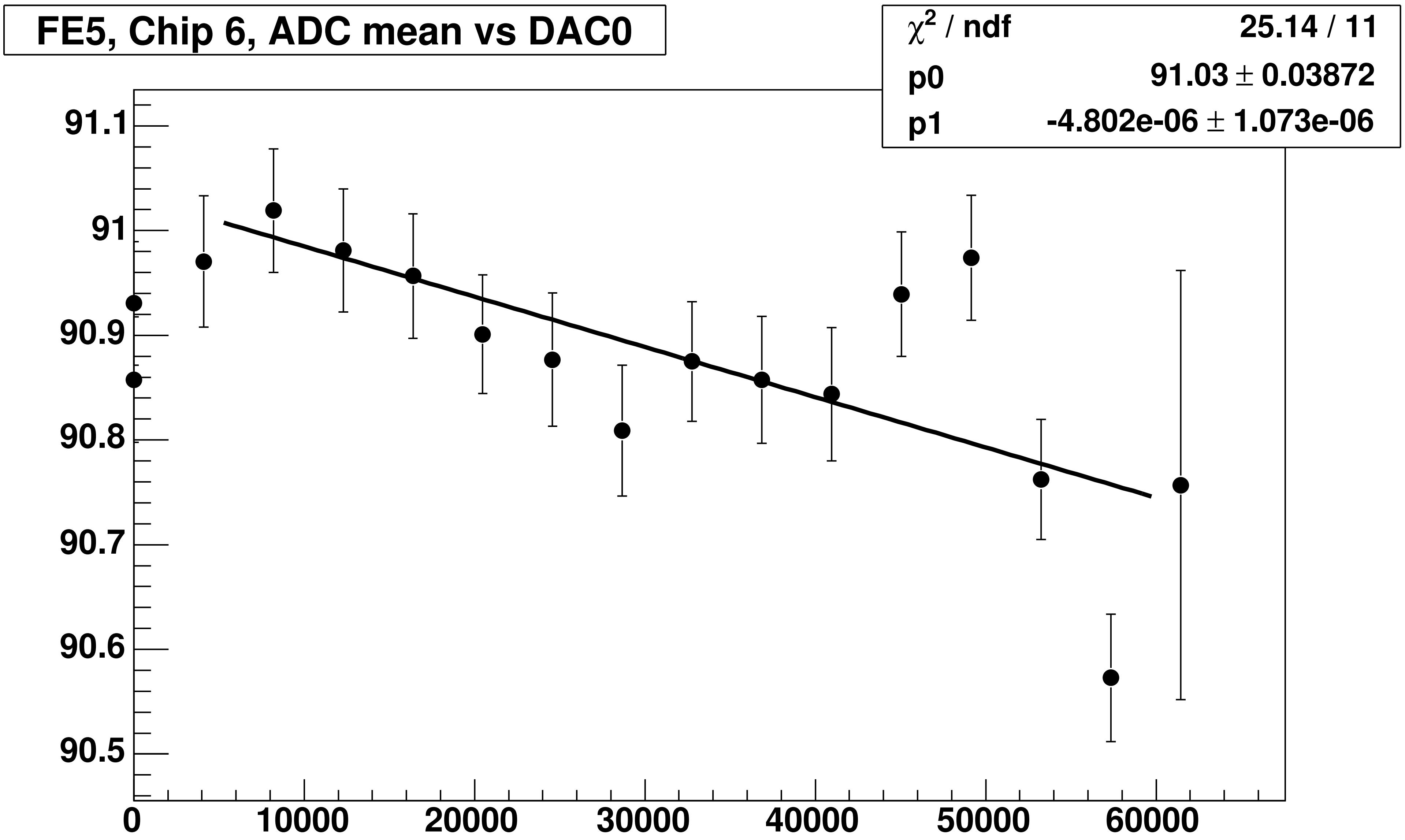




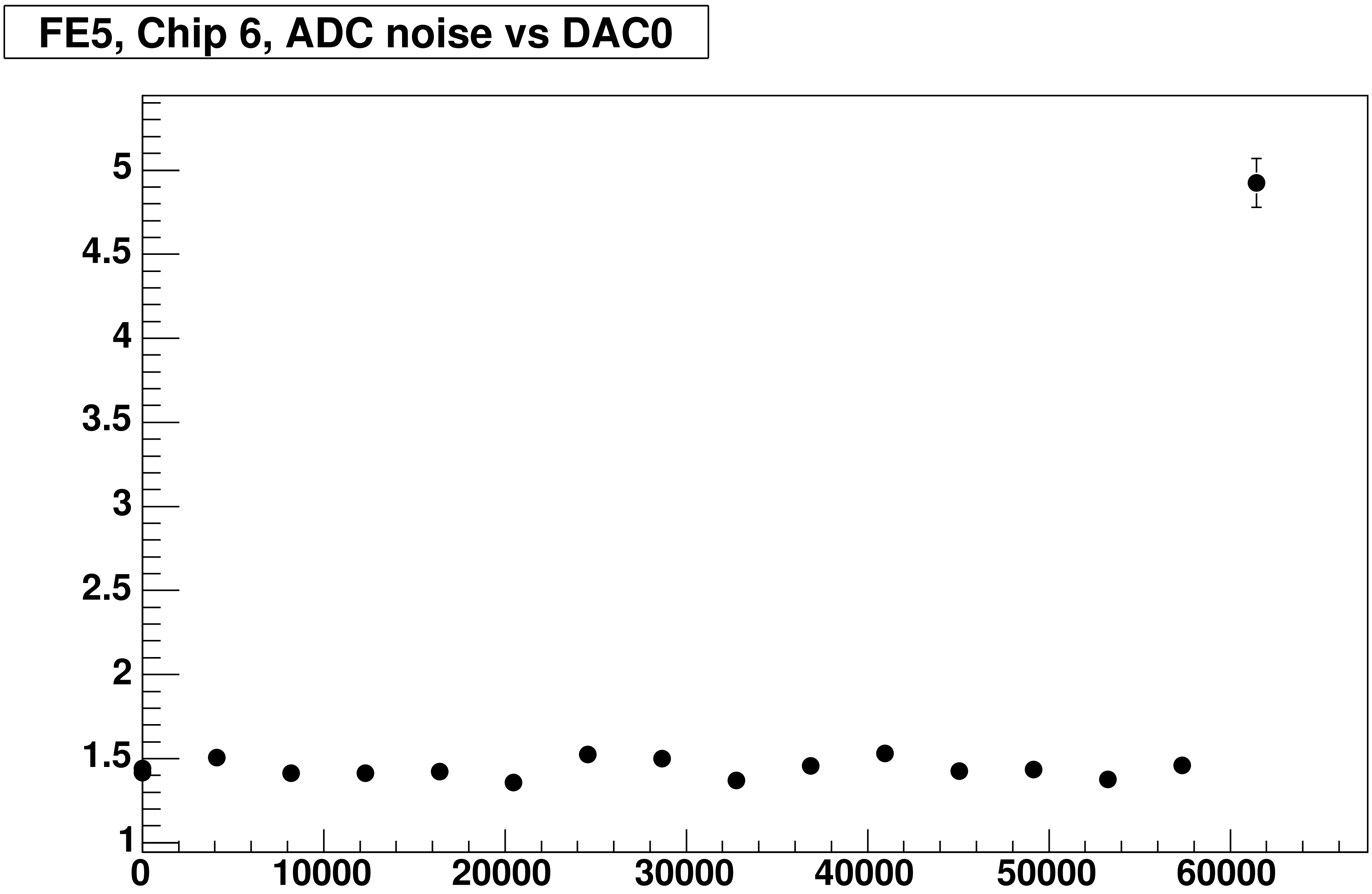
FE5, Chip 5, ADC mean vs DAC1
χ^2 / ndf 64.89 / 11
p0 -16.9 ± 0.03901
p1 1.669e-06 ± 1.078e-06
-16.6
-16.7
-16.8
-16.9
-17
-17.1
-17.2
0
10000
20000
30000
40000
50000
60000

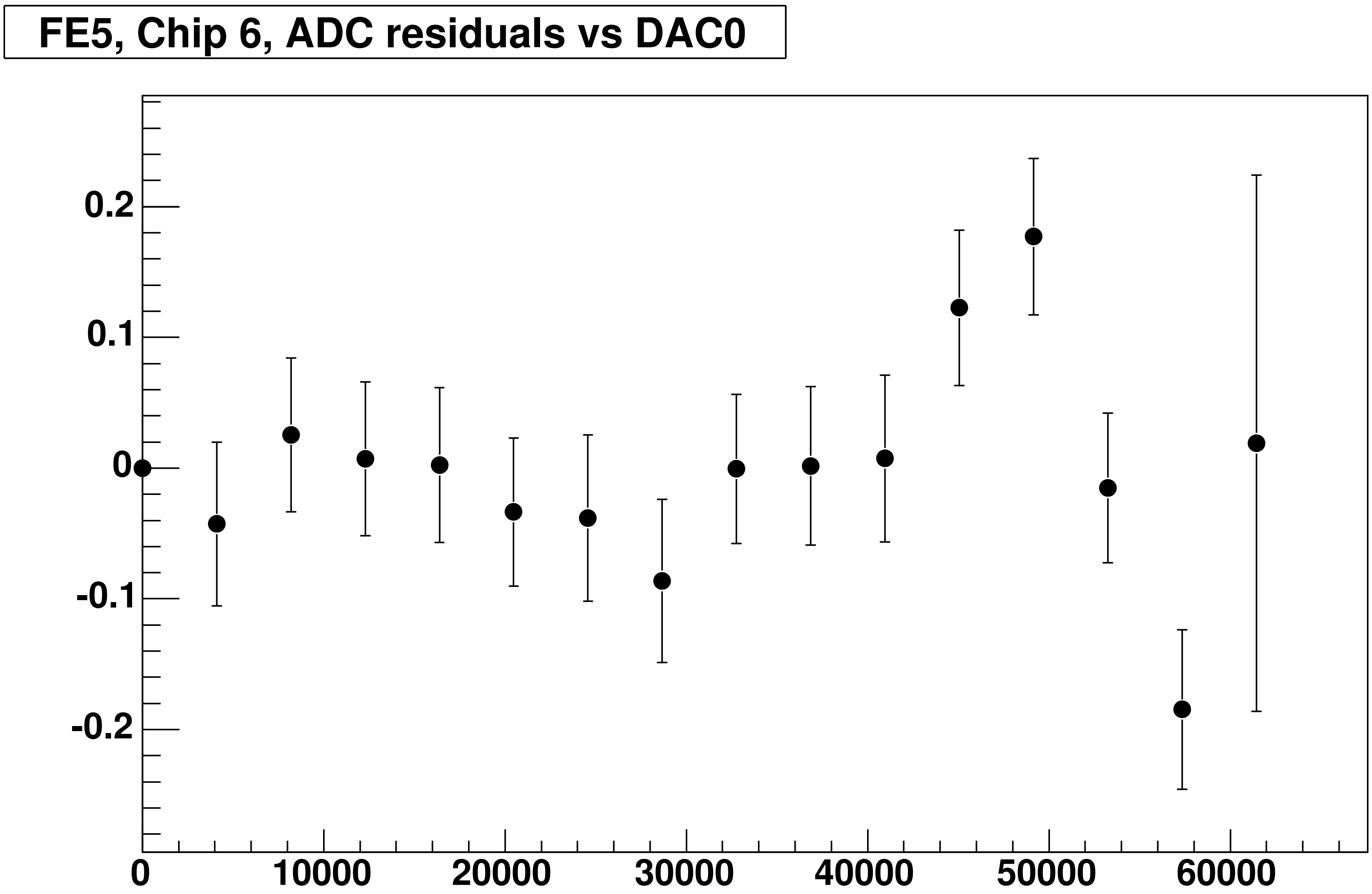

FE5, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

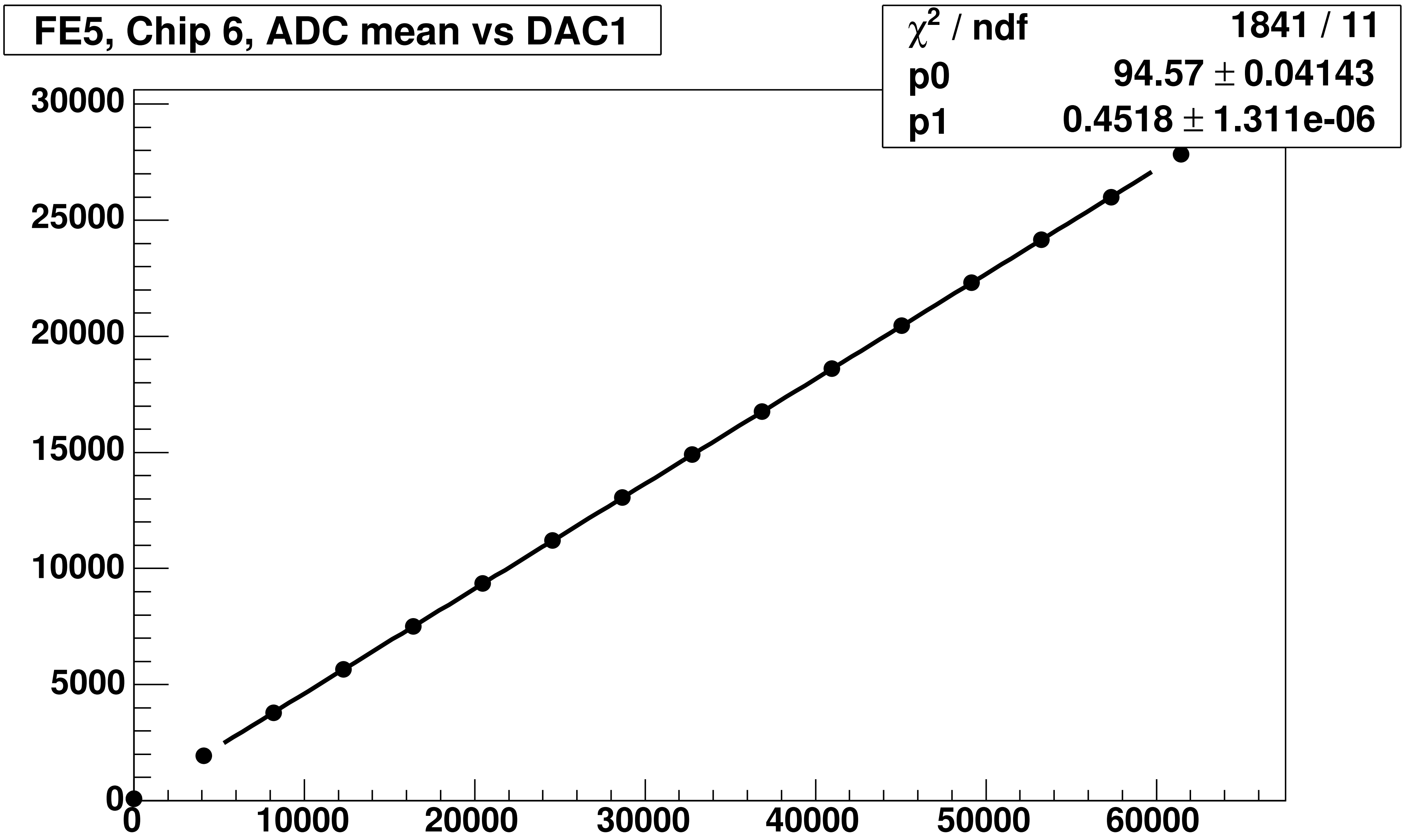

FE5, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

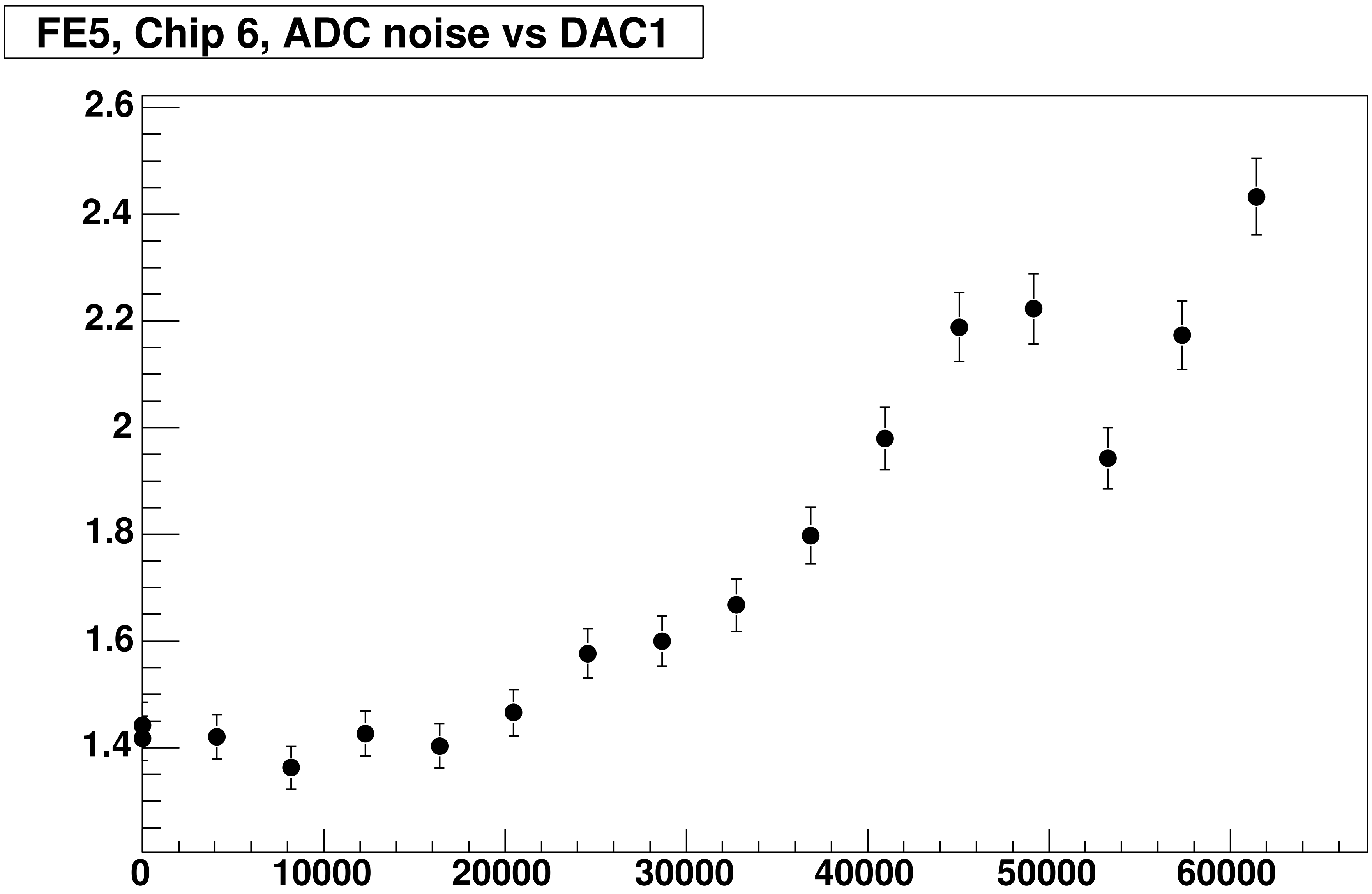


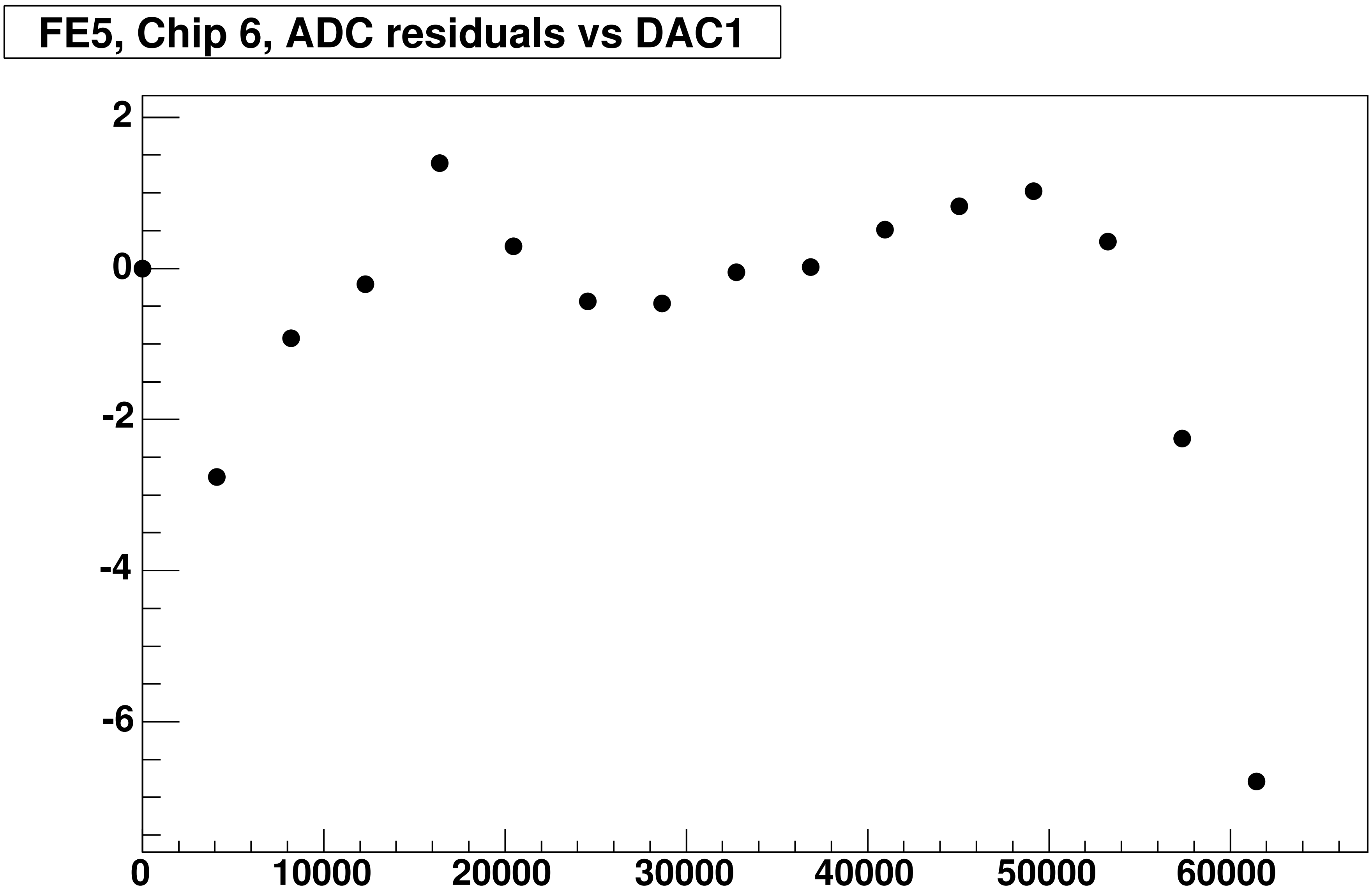
FE5, Chip 6, ADC mean vs DAC0
χ^2 / ndf 25.14 / 11
p0 91.03 ± 0.03872
p1 -4.802e-06 ± 1.073e-06
91.1
91
90.9
90.8
90.7
90.6
90.5
0
10000
20000
30000
40000
50000
60000


FE5, Chip 6, ADC noise vs DAC0
5
4.5
4
3.5
3
2.5
2
1.5
1
0
10000
20000
30000
40000
50000
60000

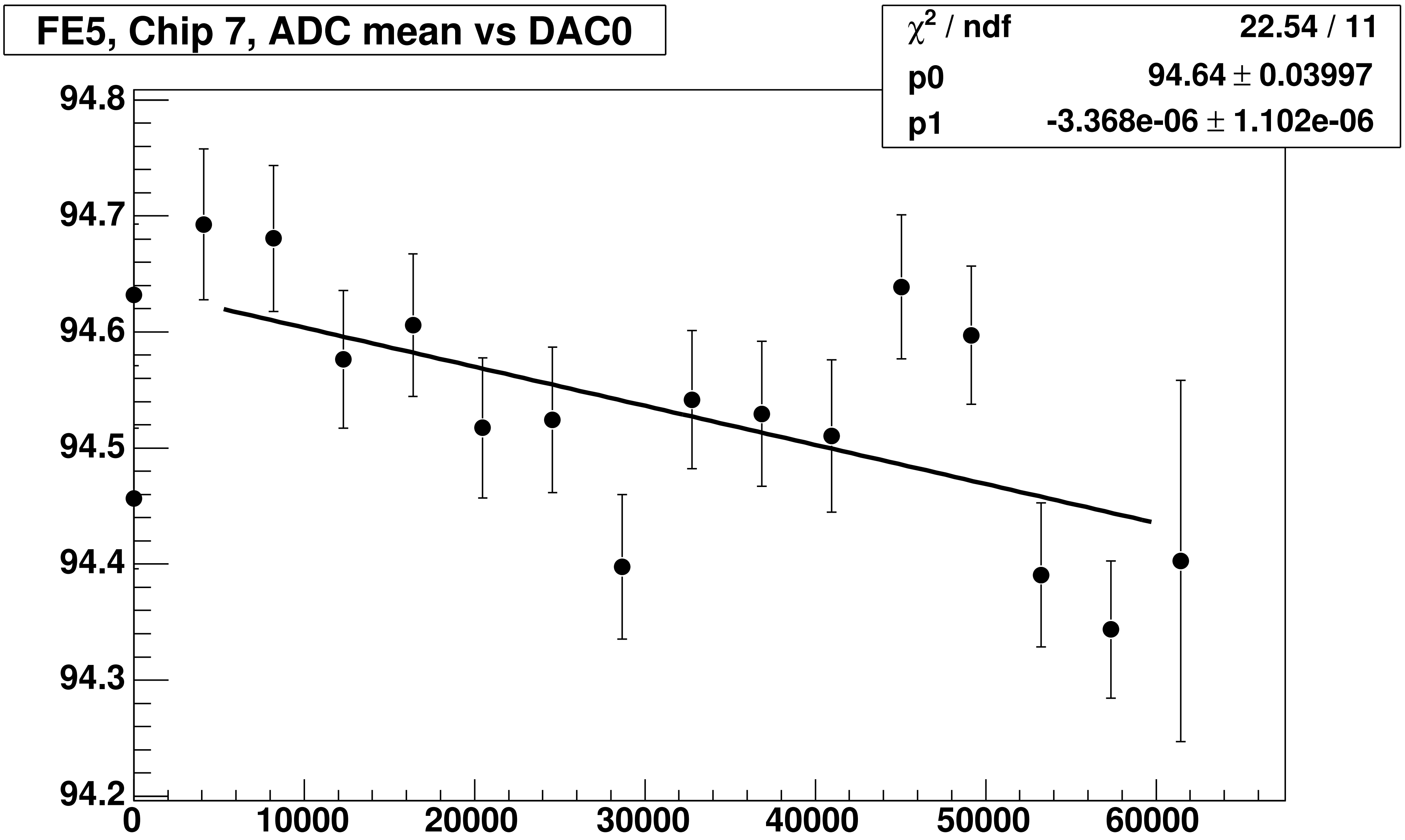

FE5, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE5, Chip 6, ADC mean vs DAC1
χ2 / ndf 1841 / 11
p0 94.57 ± 0.04143
p1 0.4518 ± 1.311e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

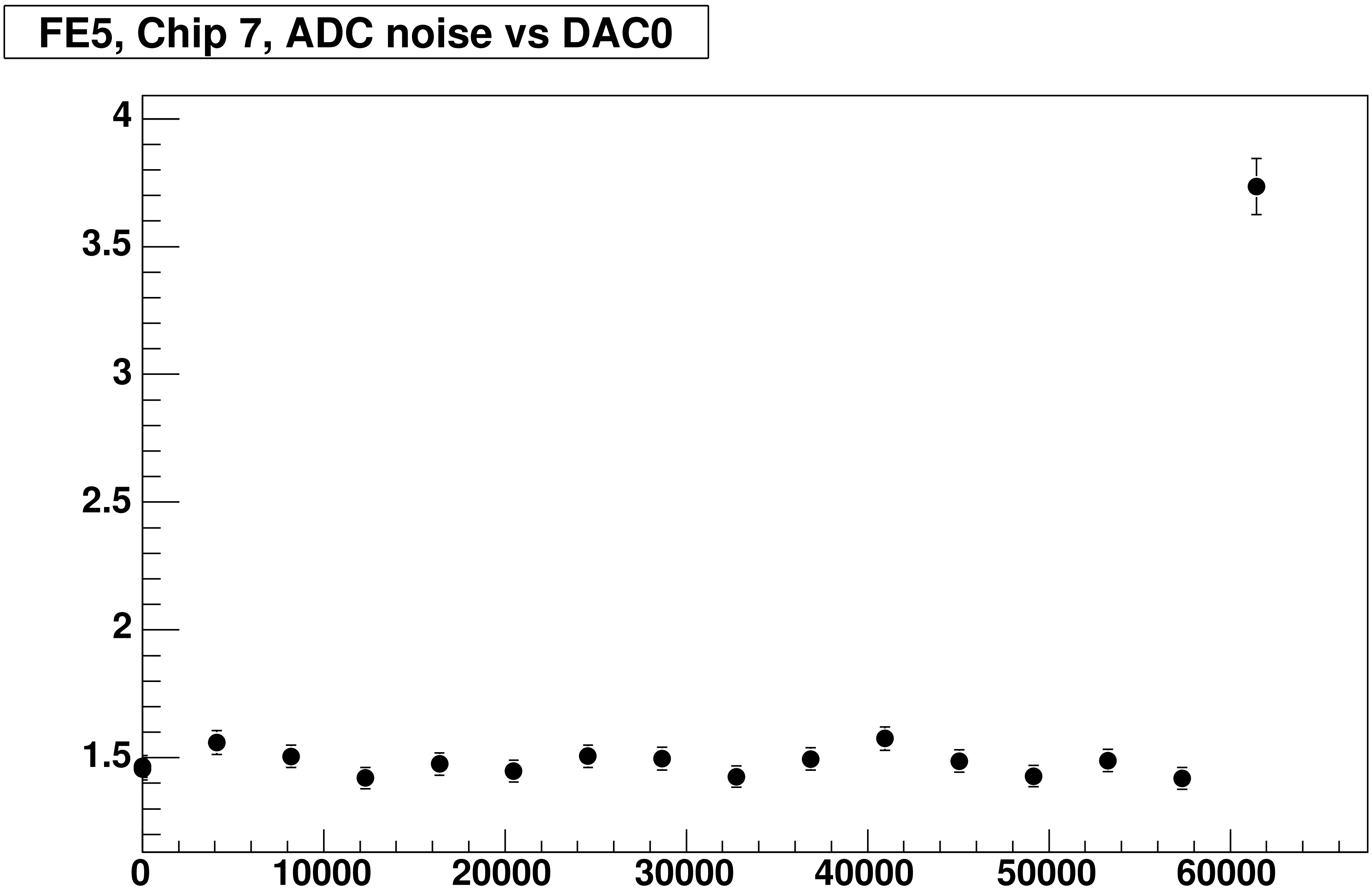

FE5, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

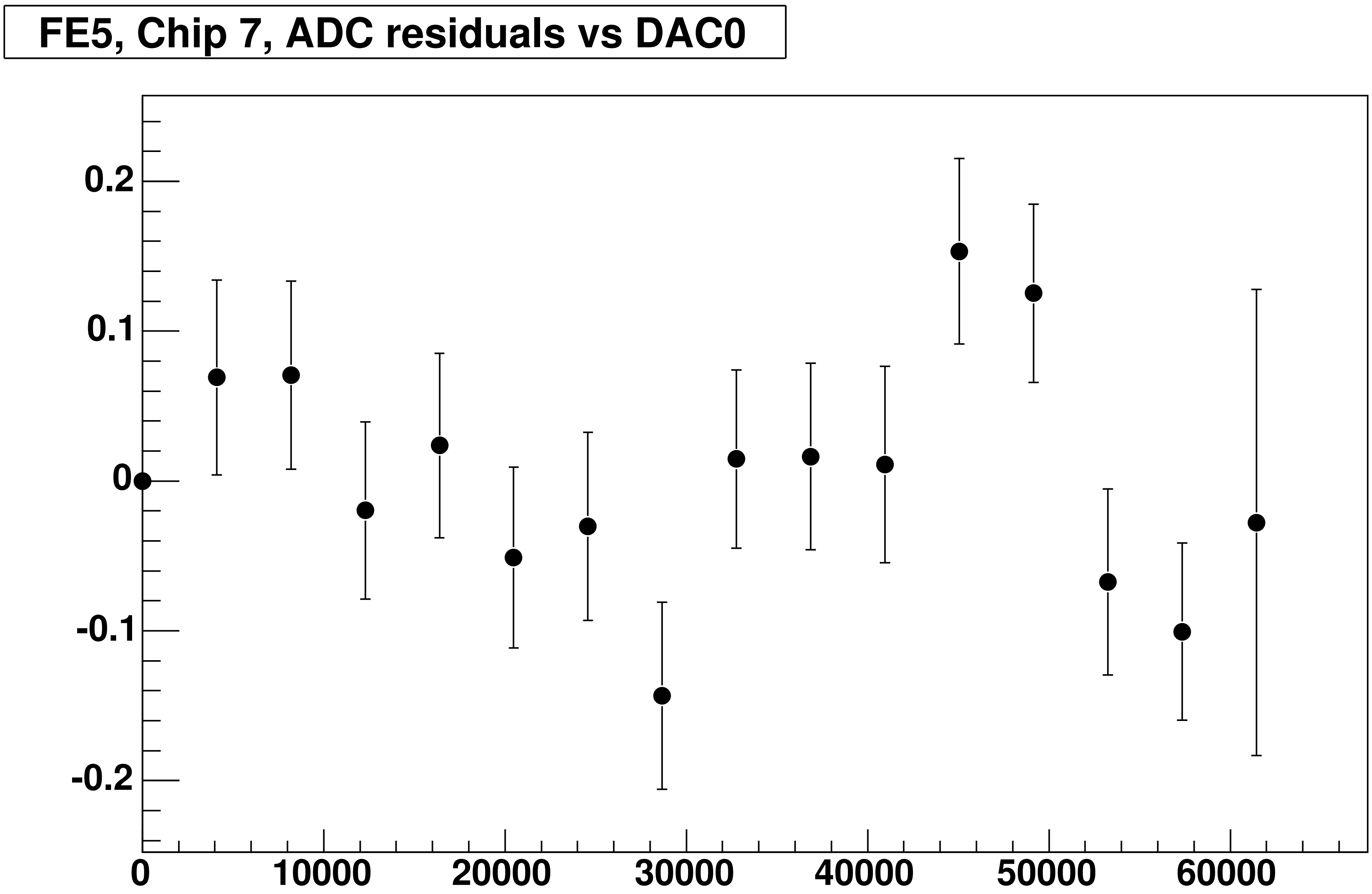


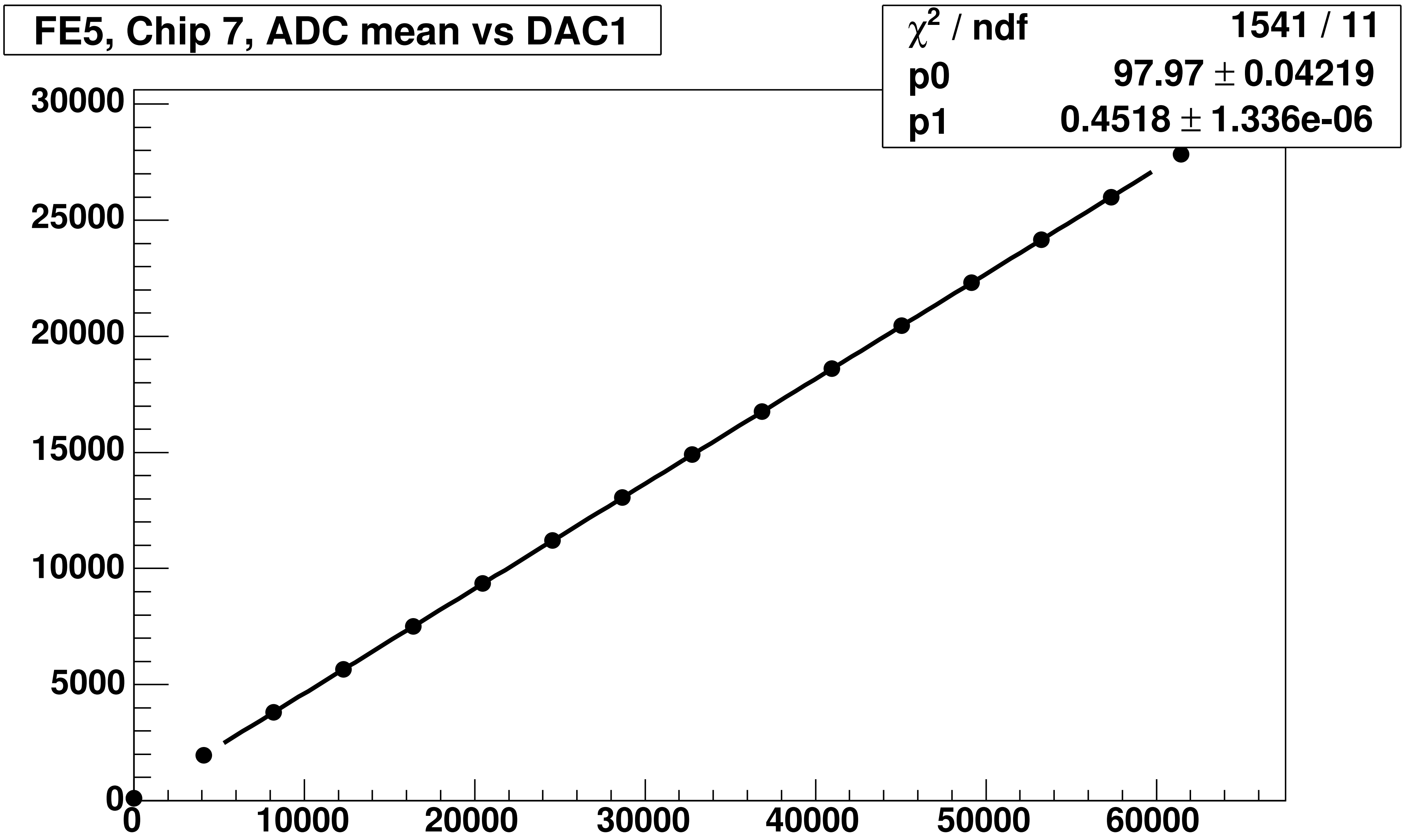
FE5, Chip 6, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000



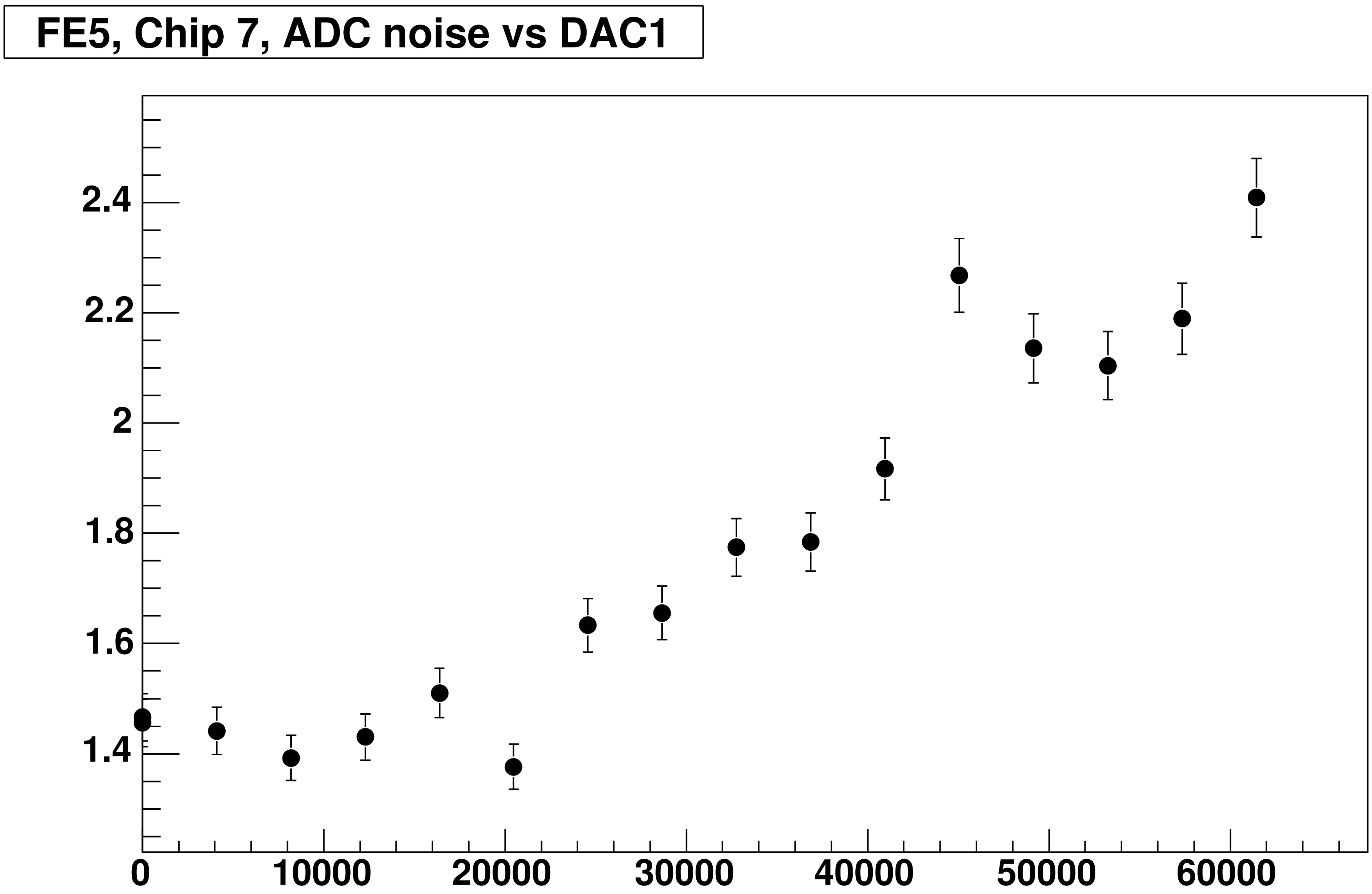
FE5, Chip 7, ADC mean vs DAC0
χ^2 / ndf 22.54 / 11
p0 94.64 ± 0.03997
p1 -3.368e-06 ± 1.102e-06
94.8
94.7
94.6
94.5
94.4
94.3
94.2
0
10000
20000
30000
40000
50000
60000


FE5, Chip 7, ADC noise vs DAC0
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

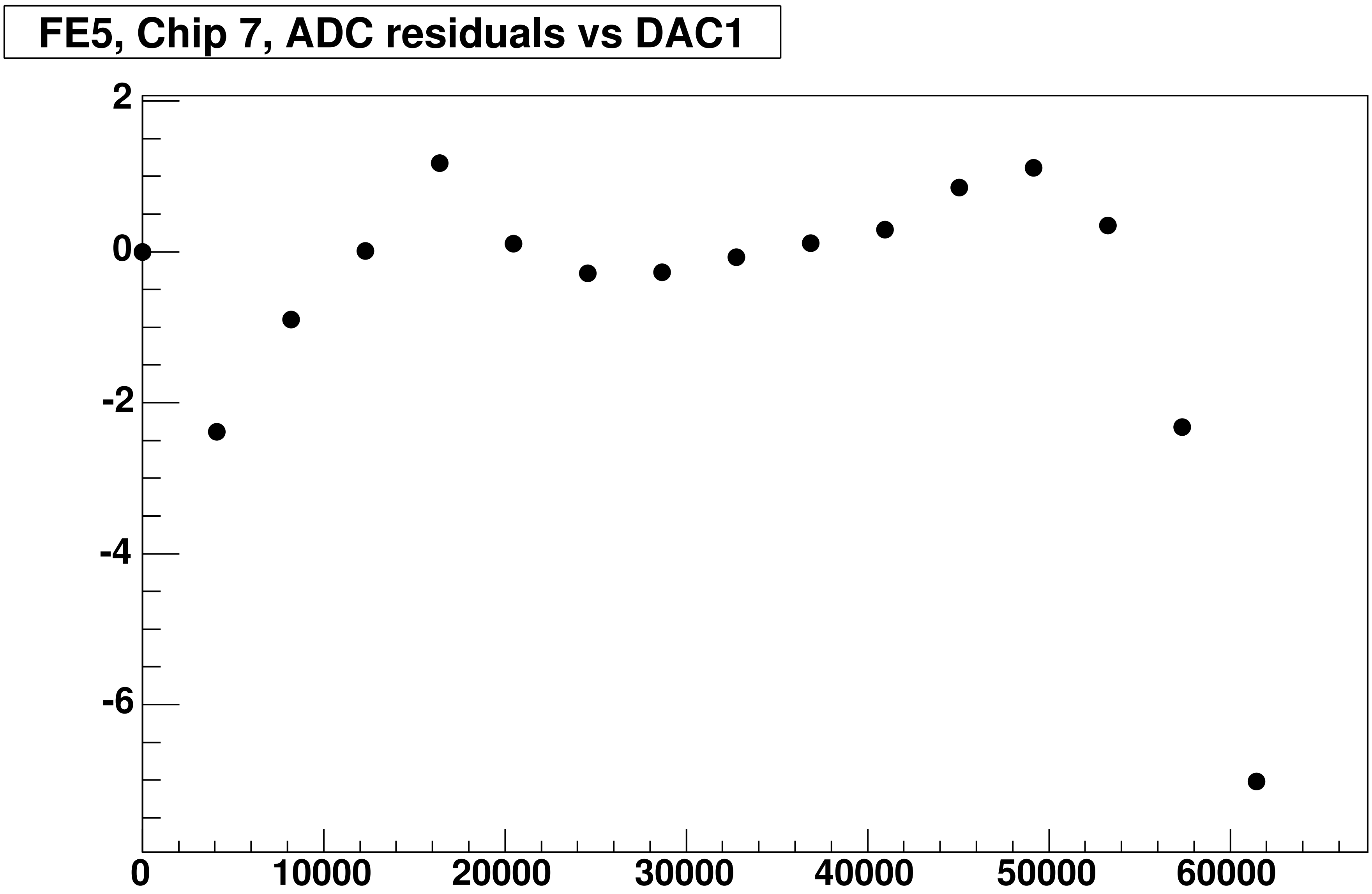

FE5, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

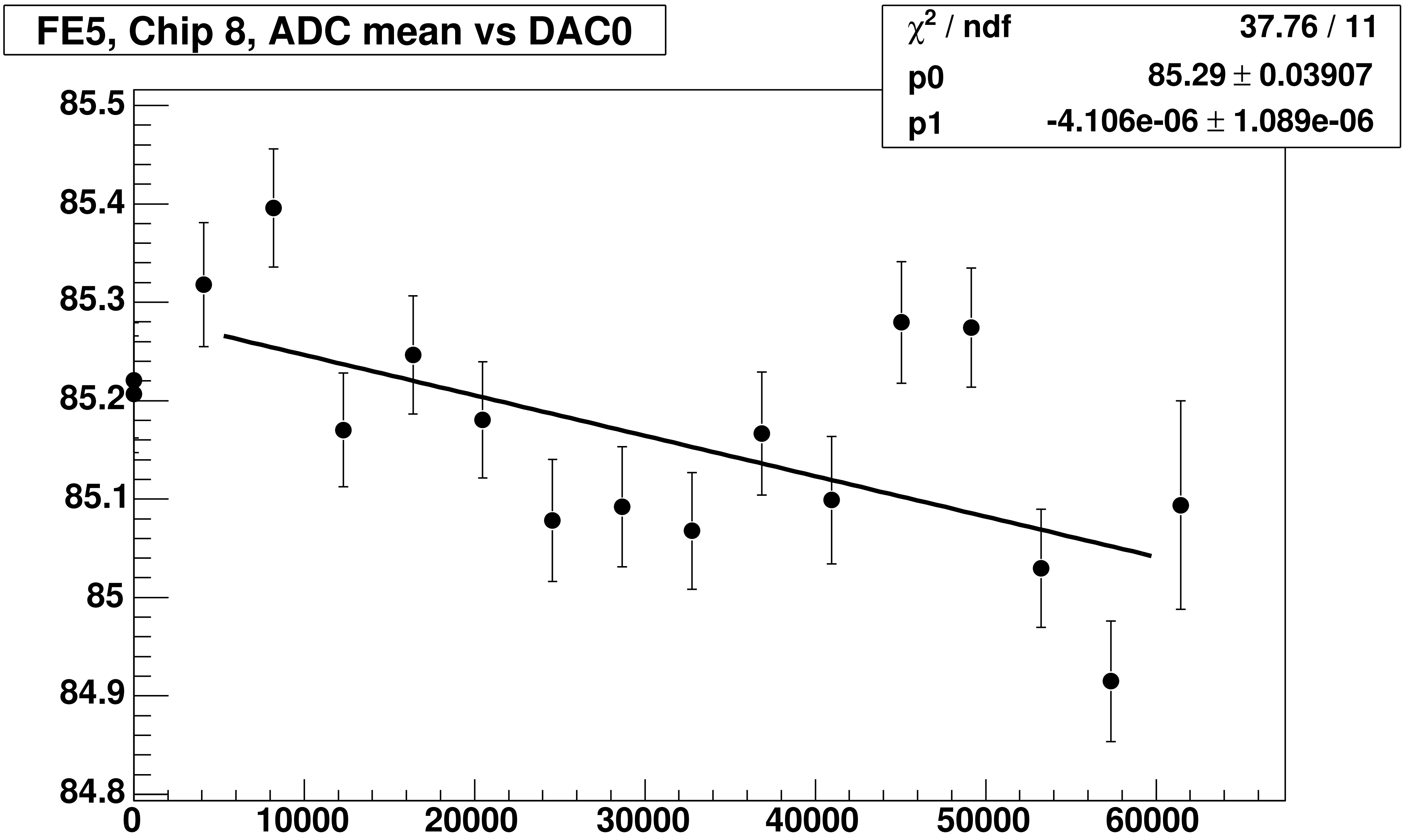


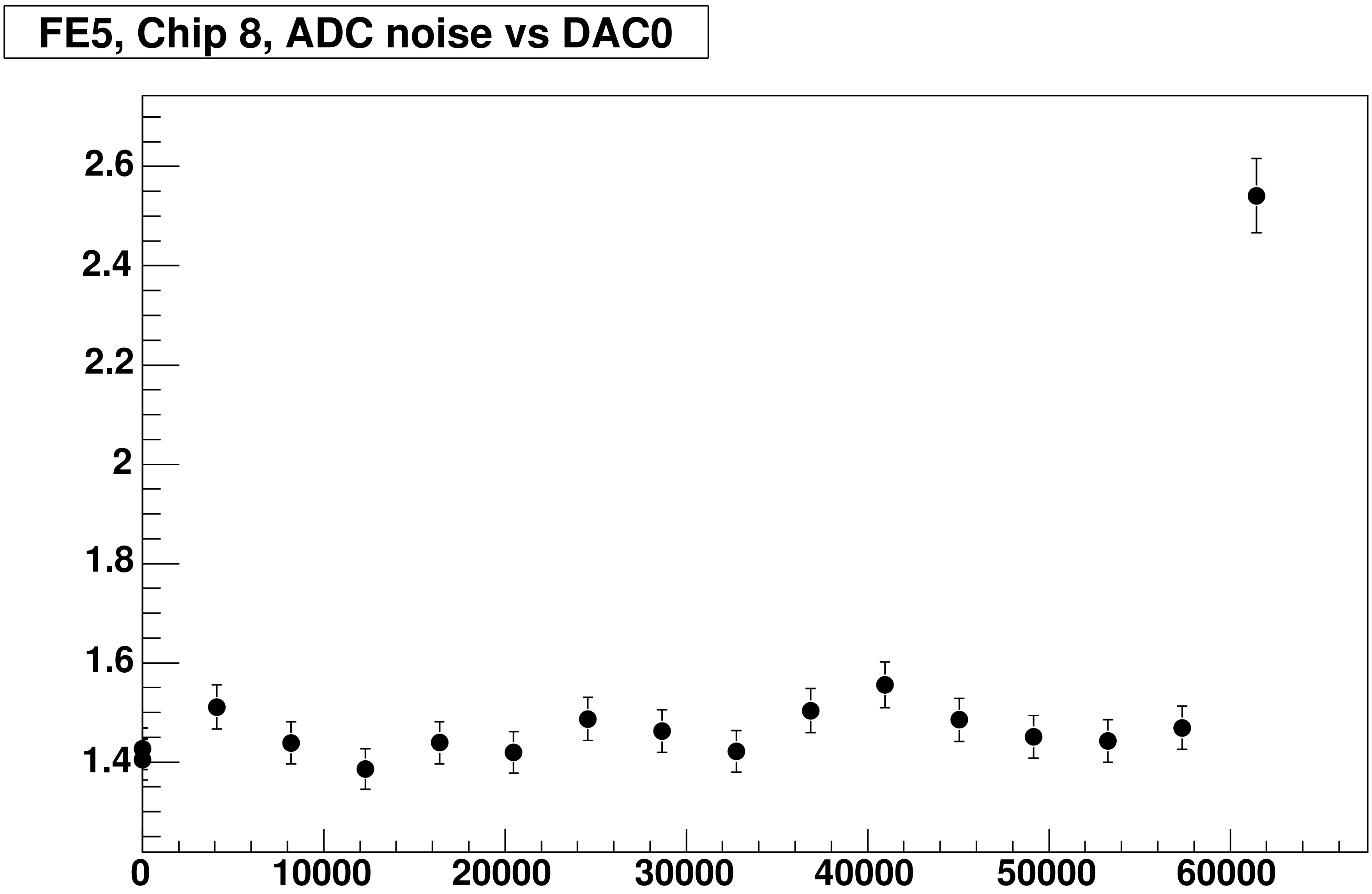
FE5, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1541 / 11
p0 97.97 ± 0.04219
p1 0.4518 ± 1.336e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

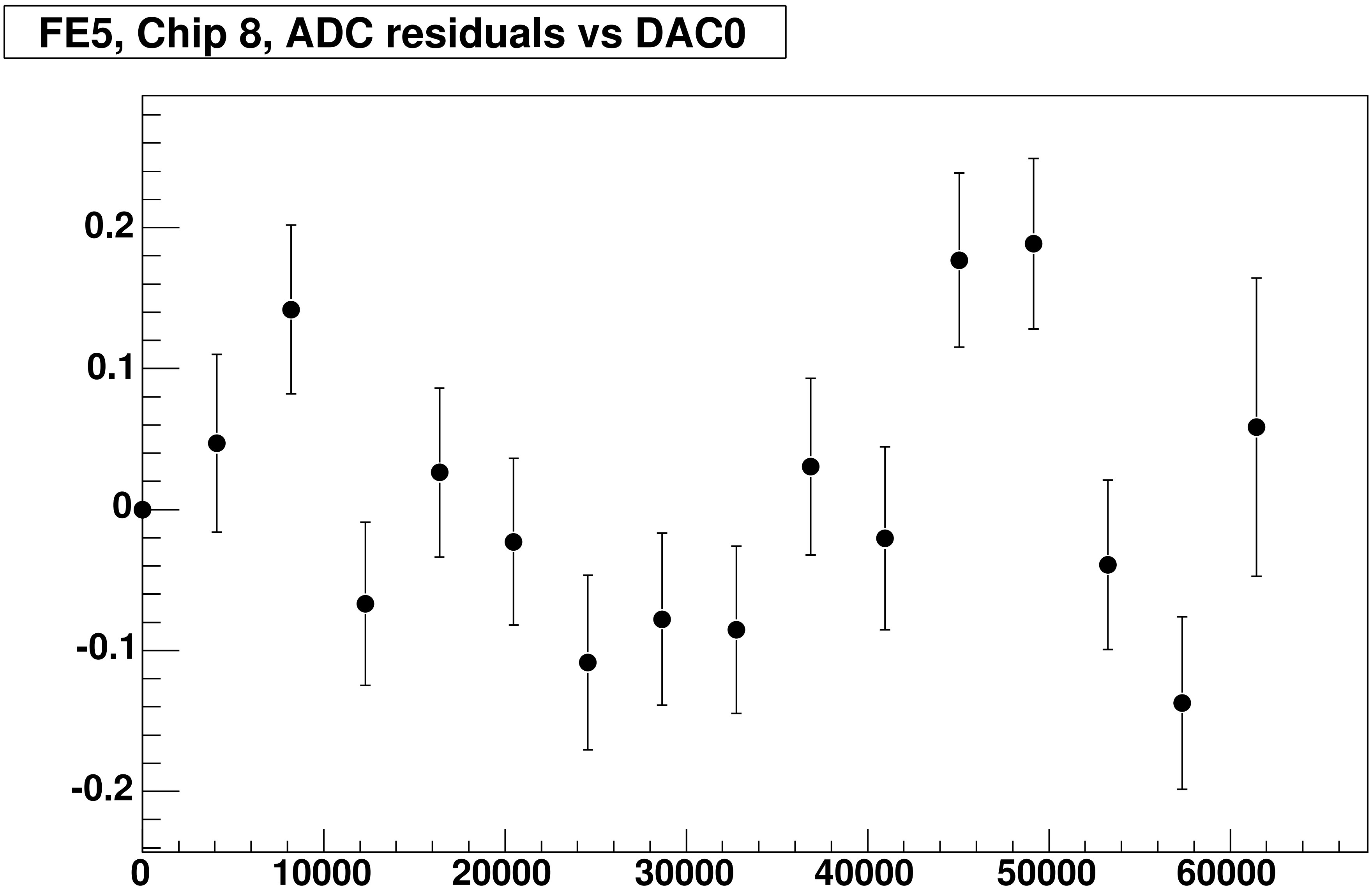


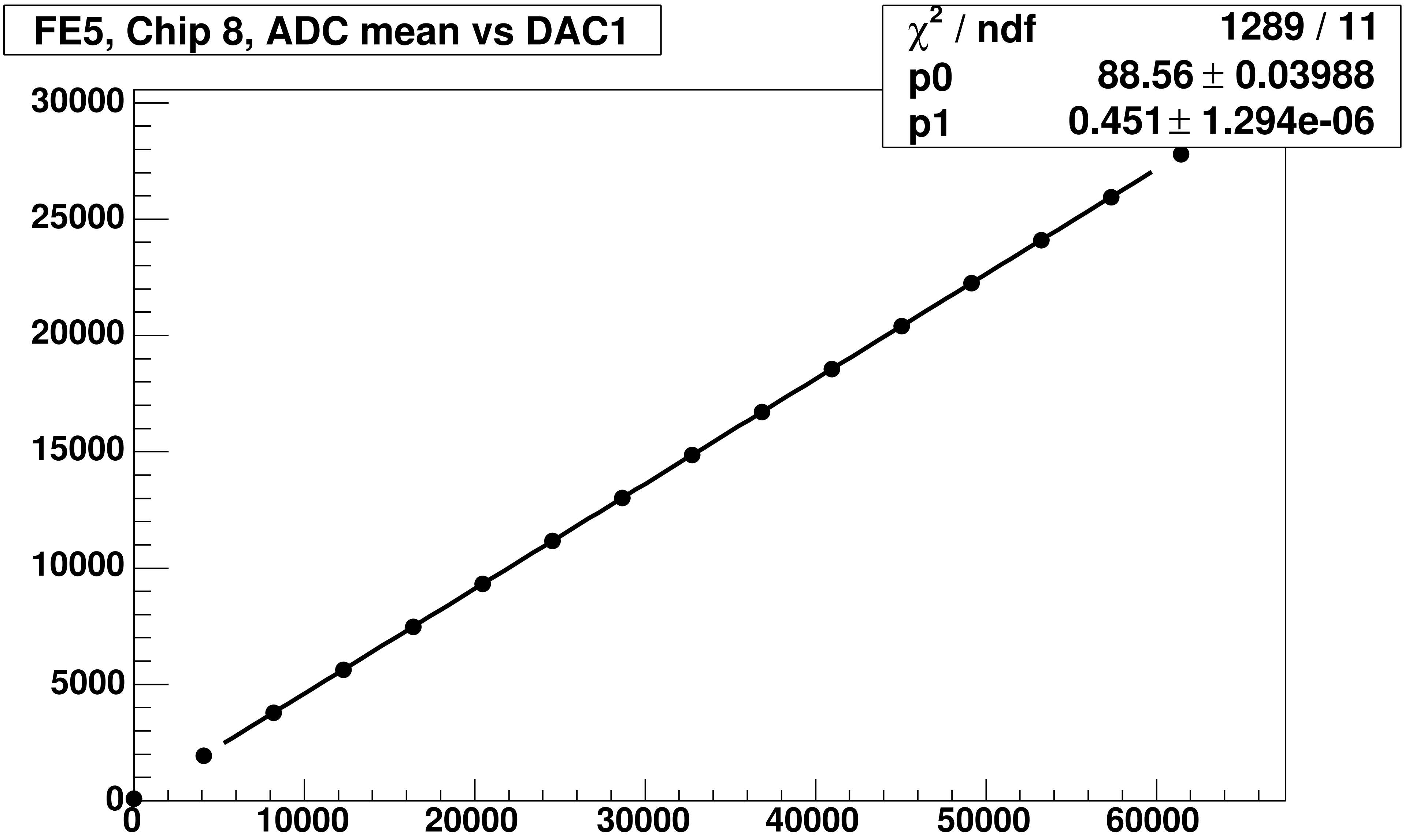
FE5, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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


FE5, Chip 8, ADC mean vs DAC0
χ^2 / ndf 37.76 / 11
p0 85.29 ± 0.03907
p1 -4.106e-06 ± 1.089e-06
85.5
85.4
85.3
85.2
85.1
85
84.9
84.8
0
10000
20000
30000
40000
50000
60000

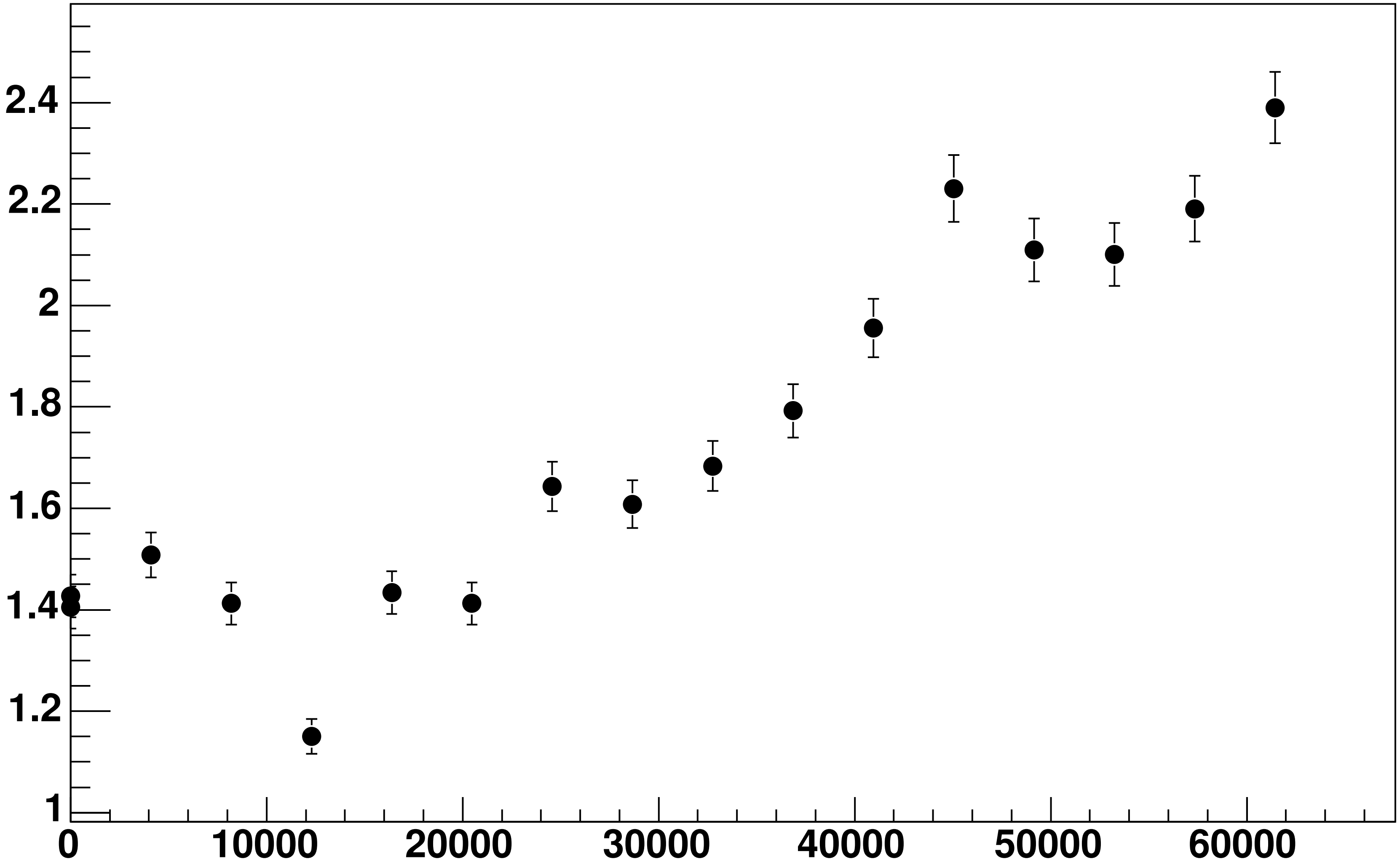

FE5, Chip 8, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

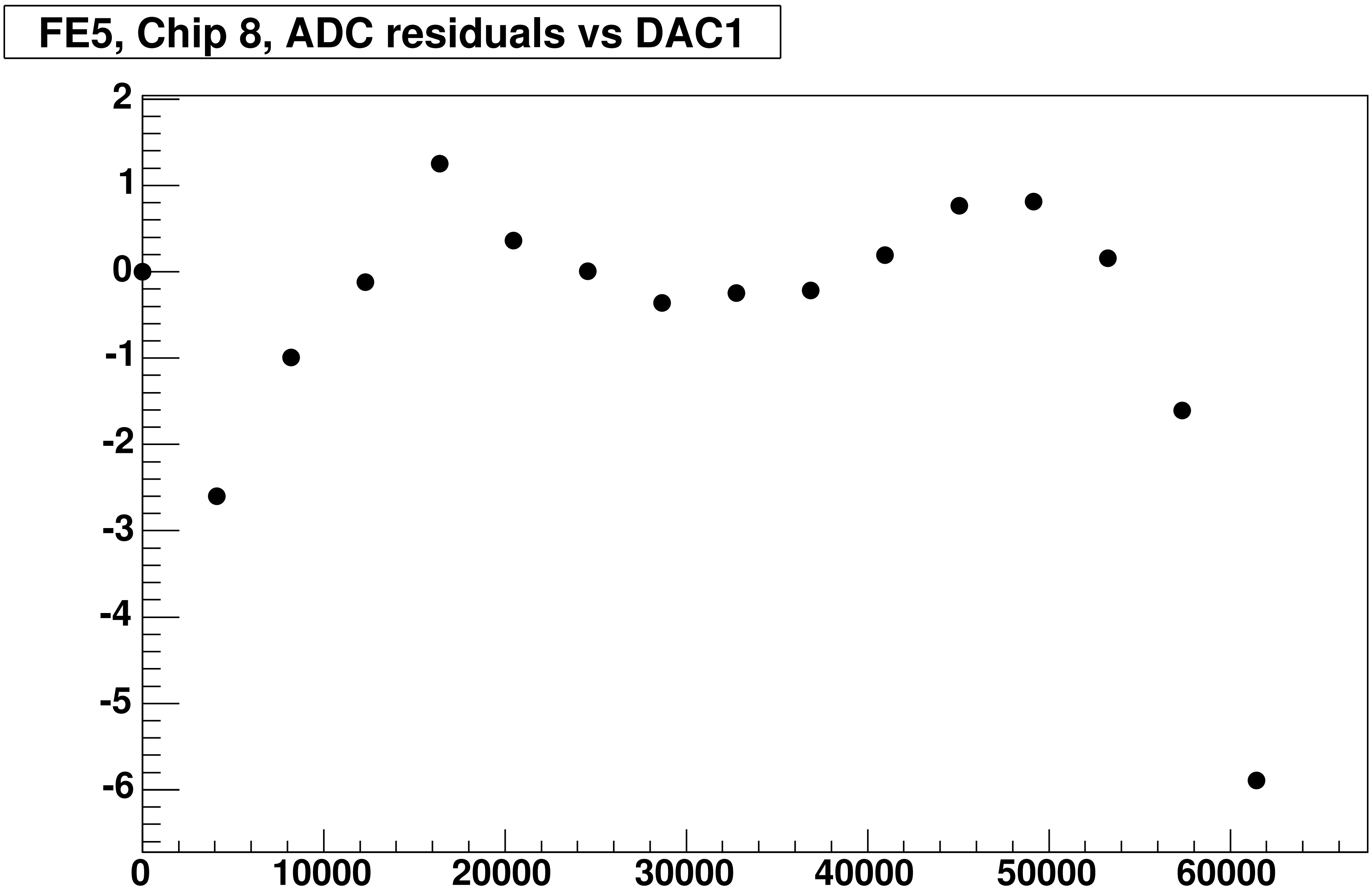

FE5, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

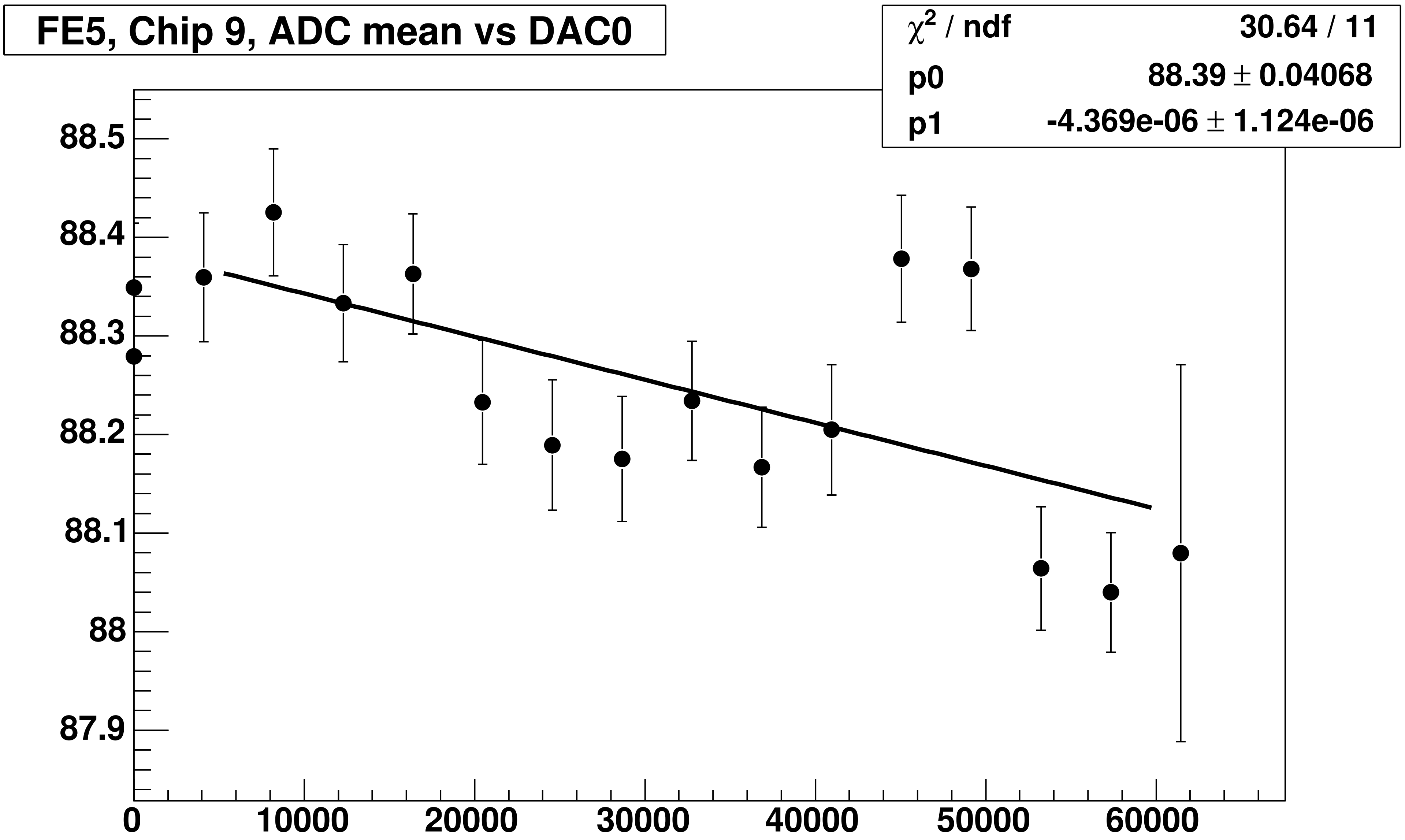


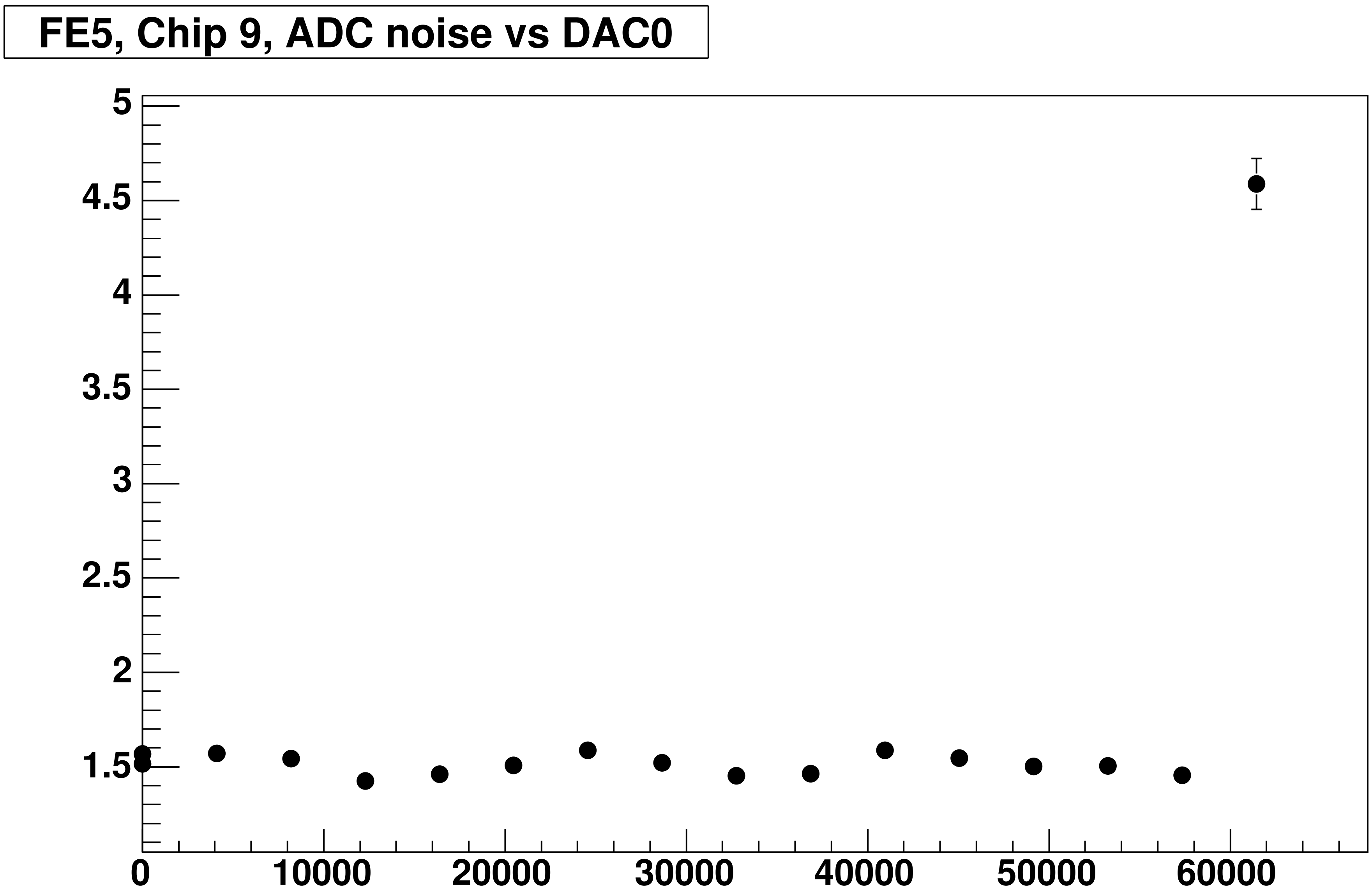
FE5, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1289 / 11
p0 88.56 ± 0.03988
p1 0.451 ± 1.294e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

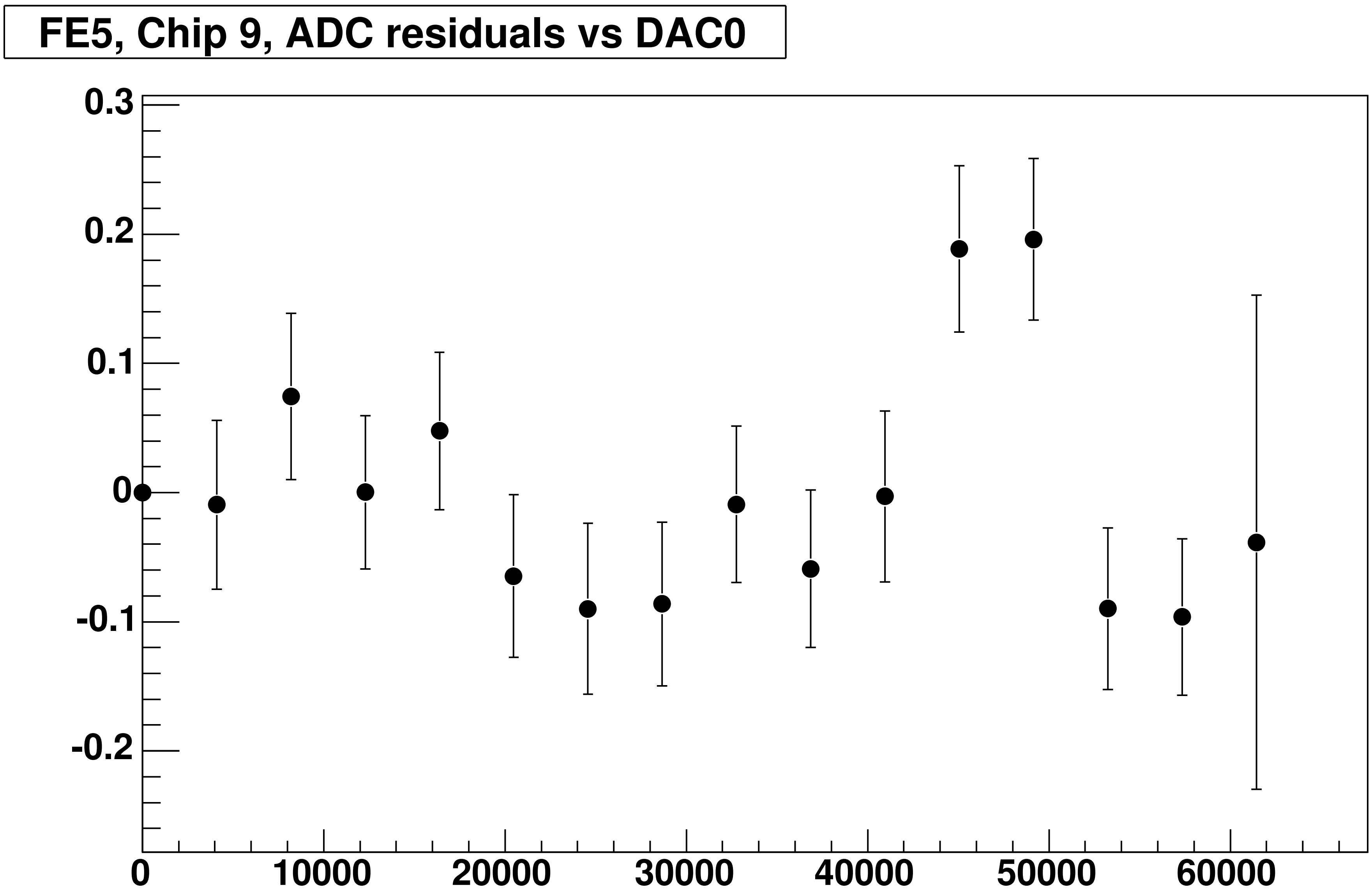
FE5, Chip 8, ADC noise vs DAC1



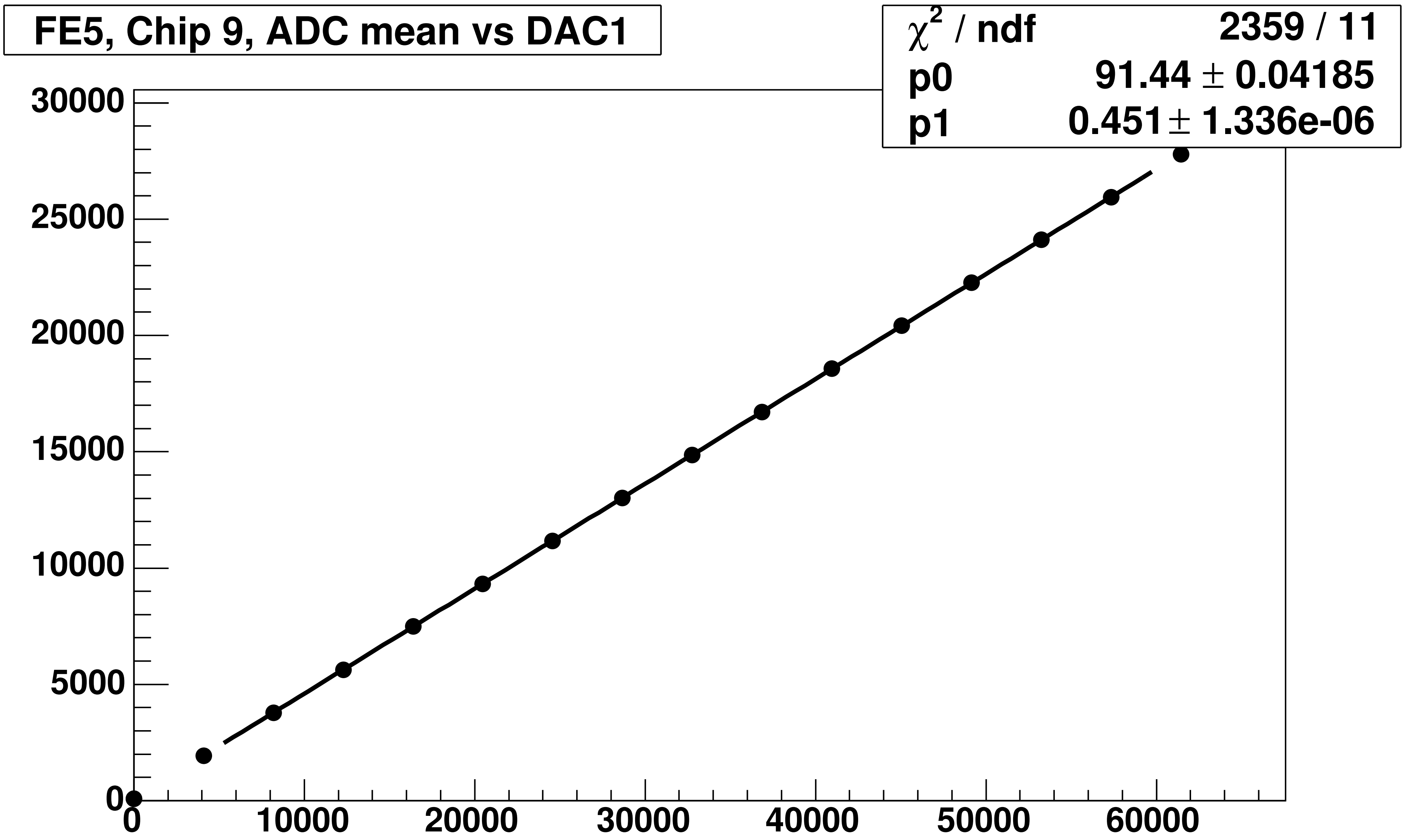

FE5, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

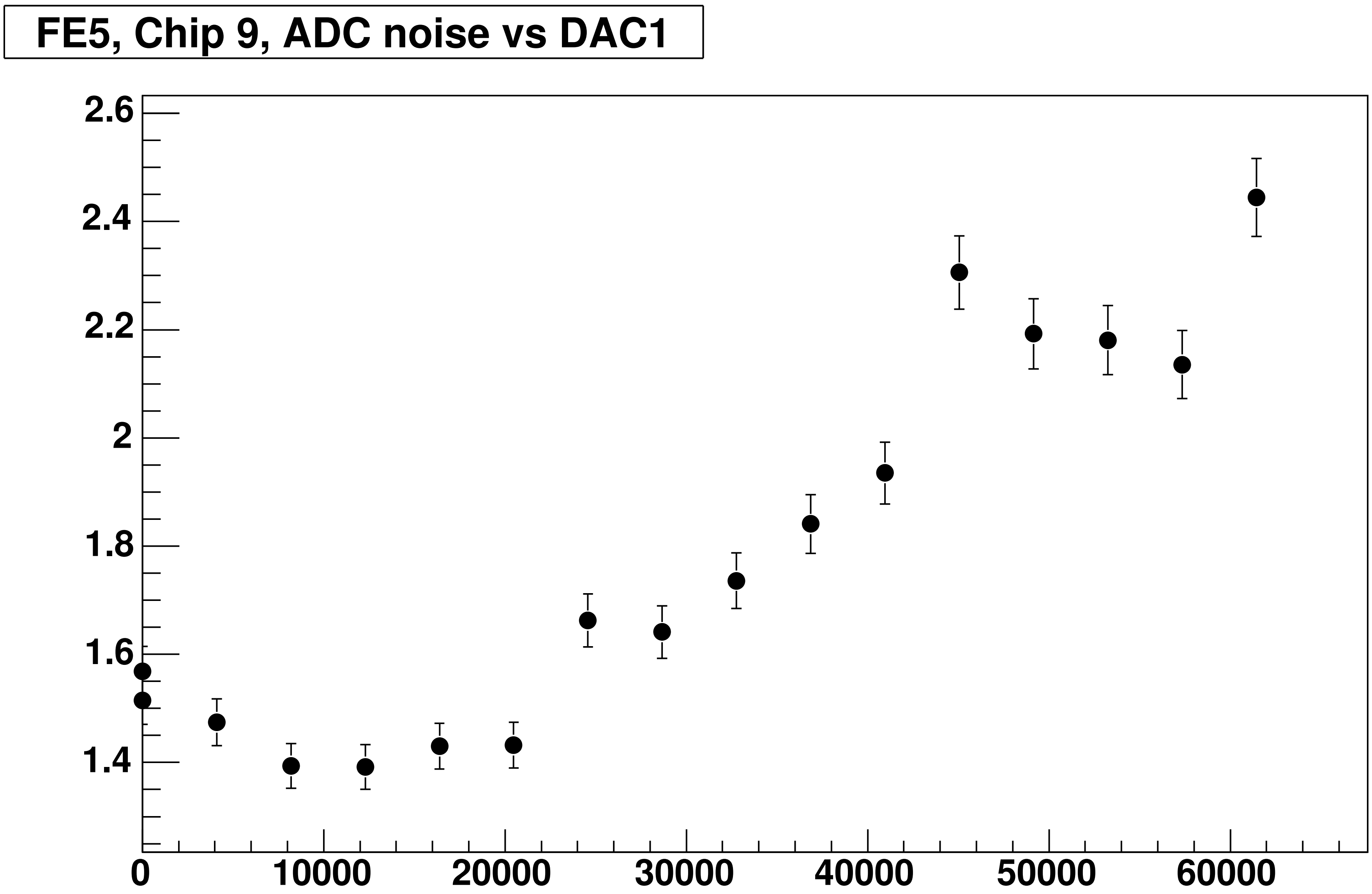

FE5, Chip 9, ADC mean vs DAC0
χ^2 / ndf 30.64 / 11
p0 88.39 ± 0.04068
p1 -4.369e-06 ± 1.124e-06
88.5
88.4
88.3
88.2
88.1
88
87.9
0
10000
20000
30000
40000
50000
60000

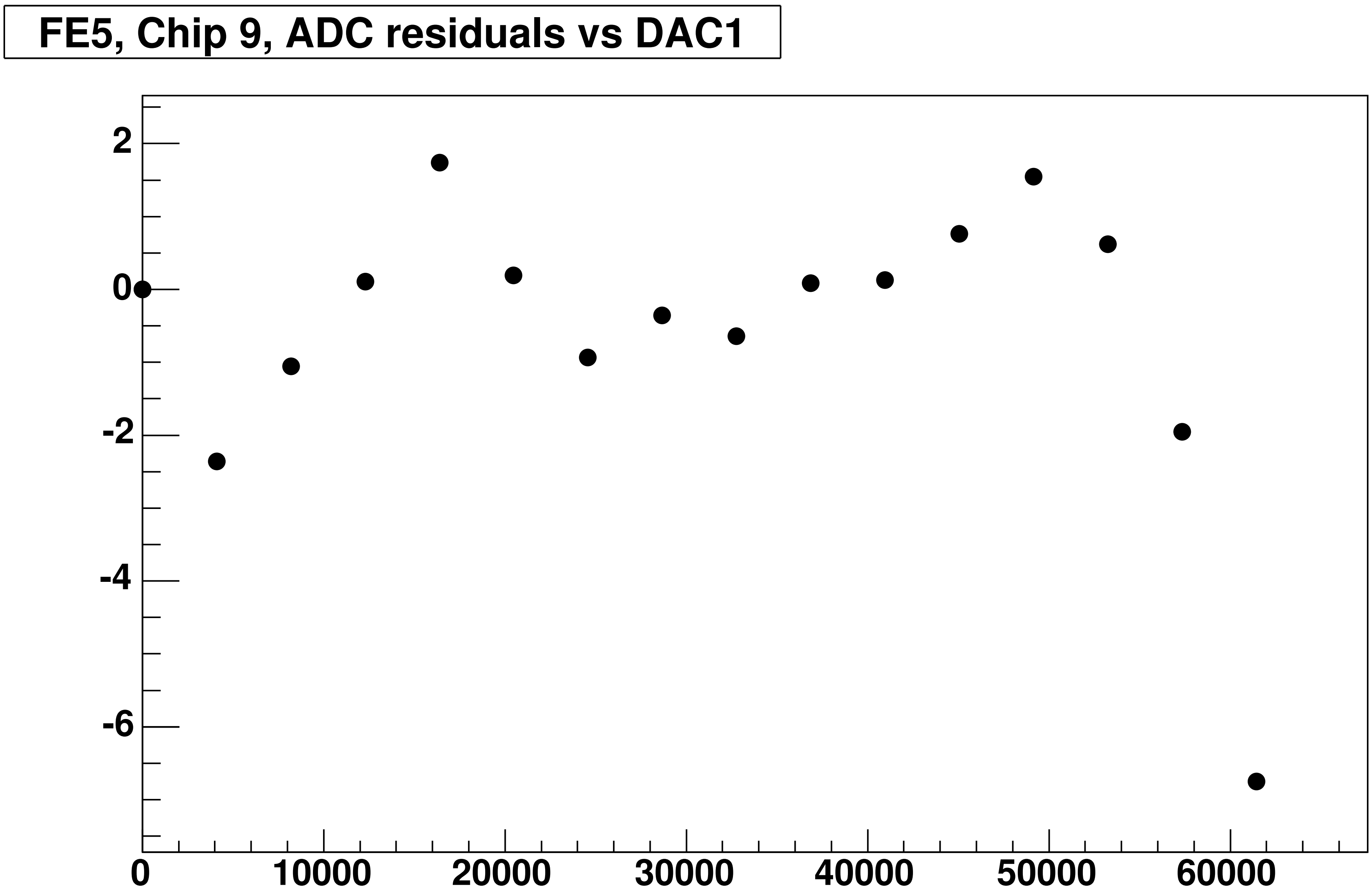

FE5, Chip 9, ADC noise vs DAC0
5
4.5
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

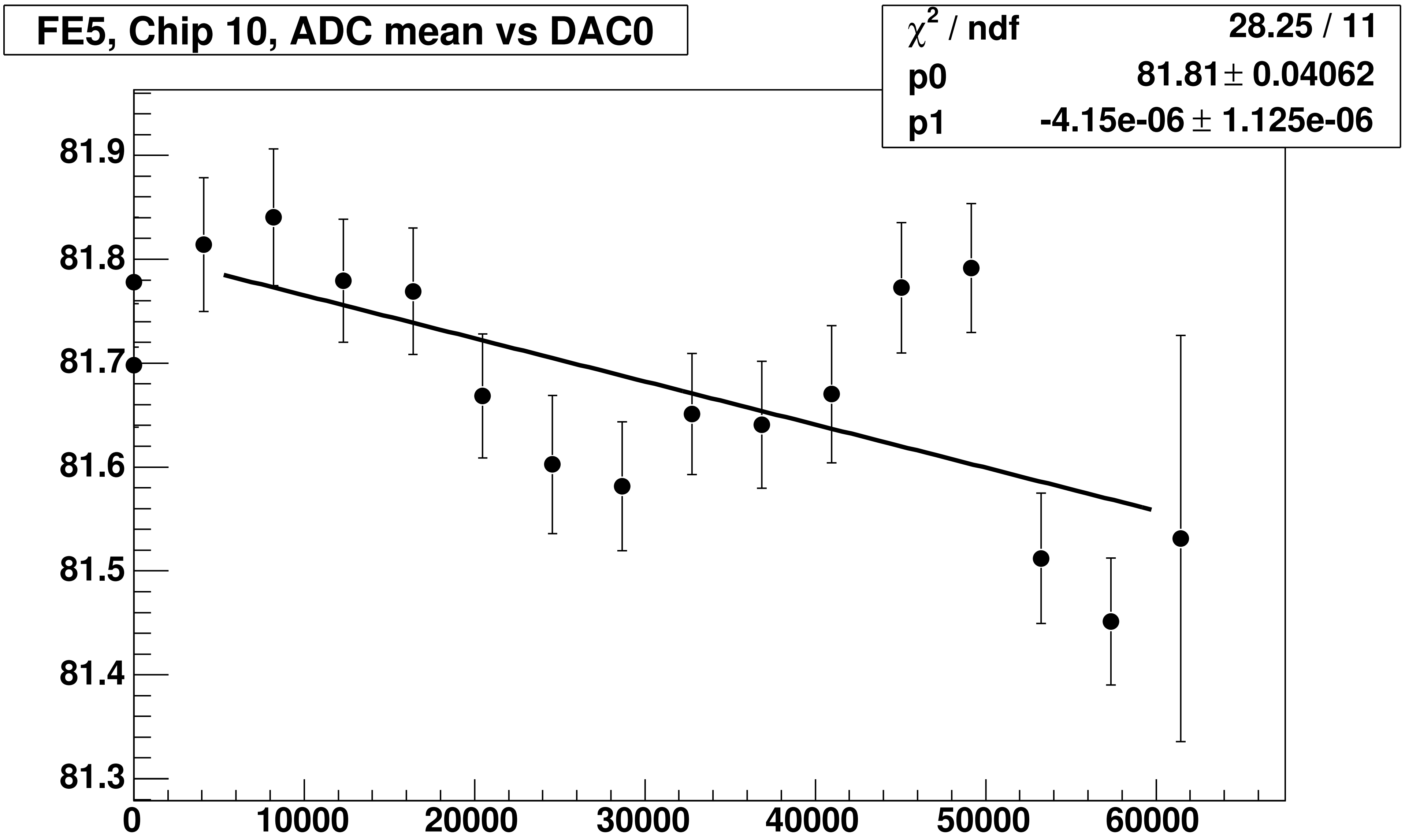


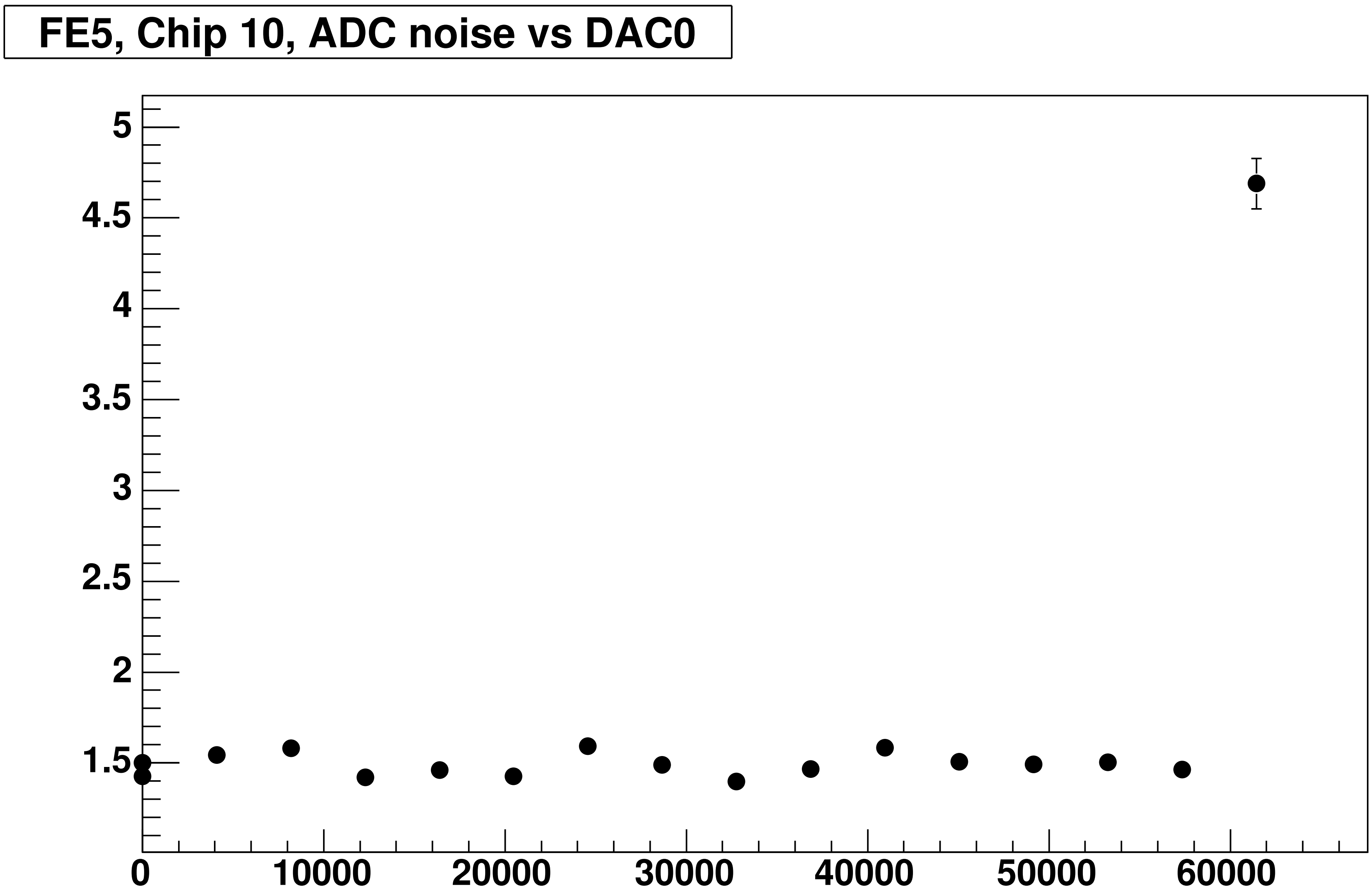
FE5, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

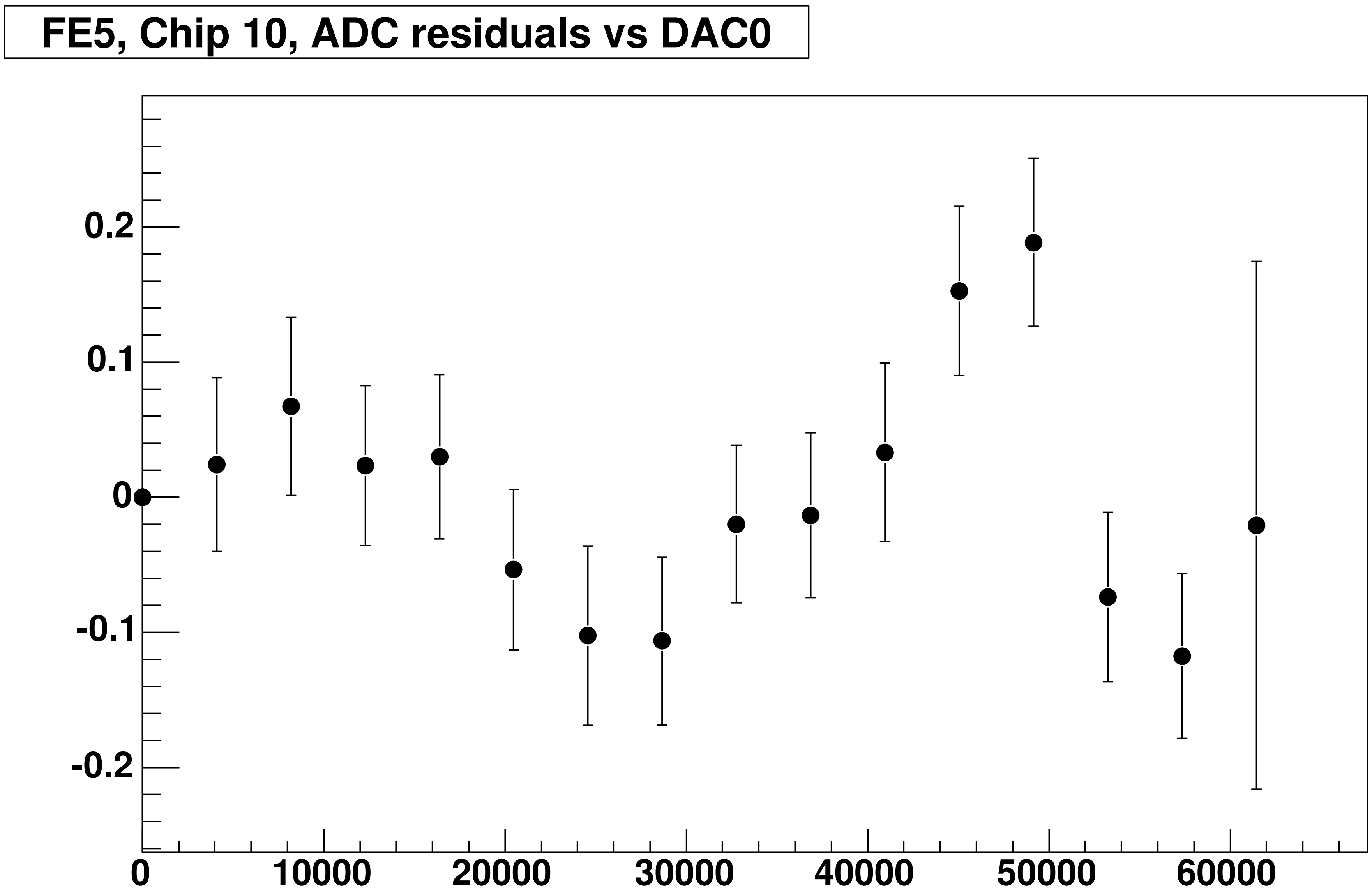

FE5, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2359 / 11
p0 91.44 ± 0.04185
p1 0.451 ± 1.336e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

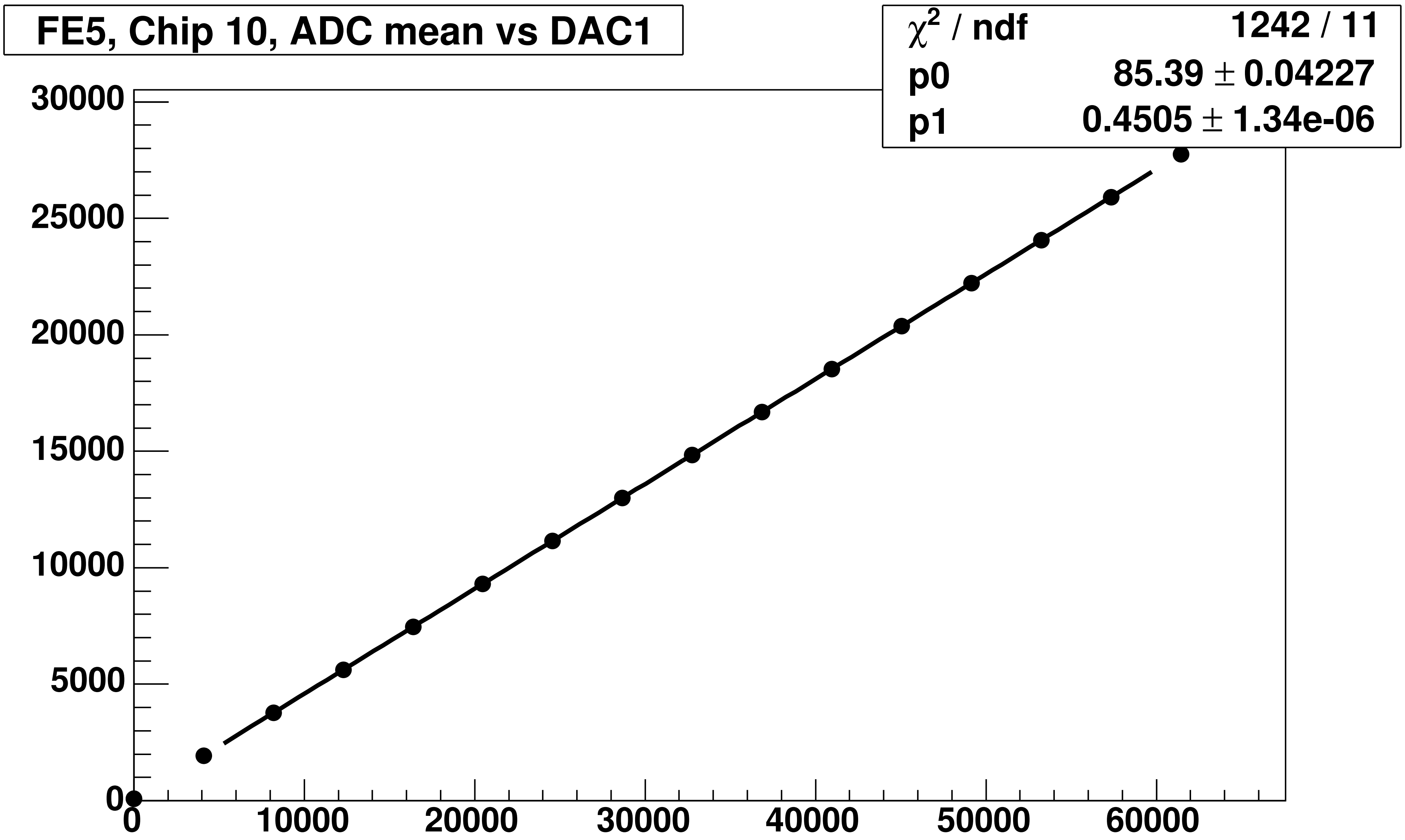

FE5, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

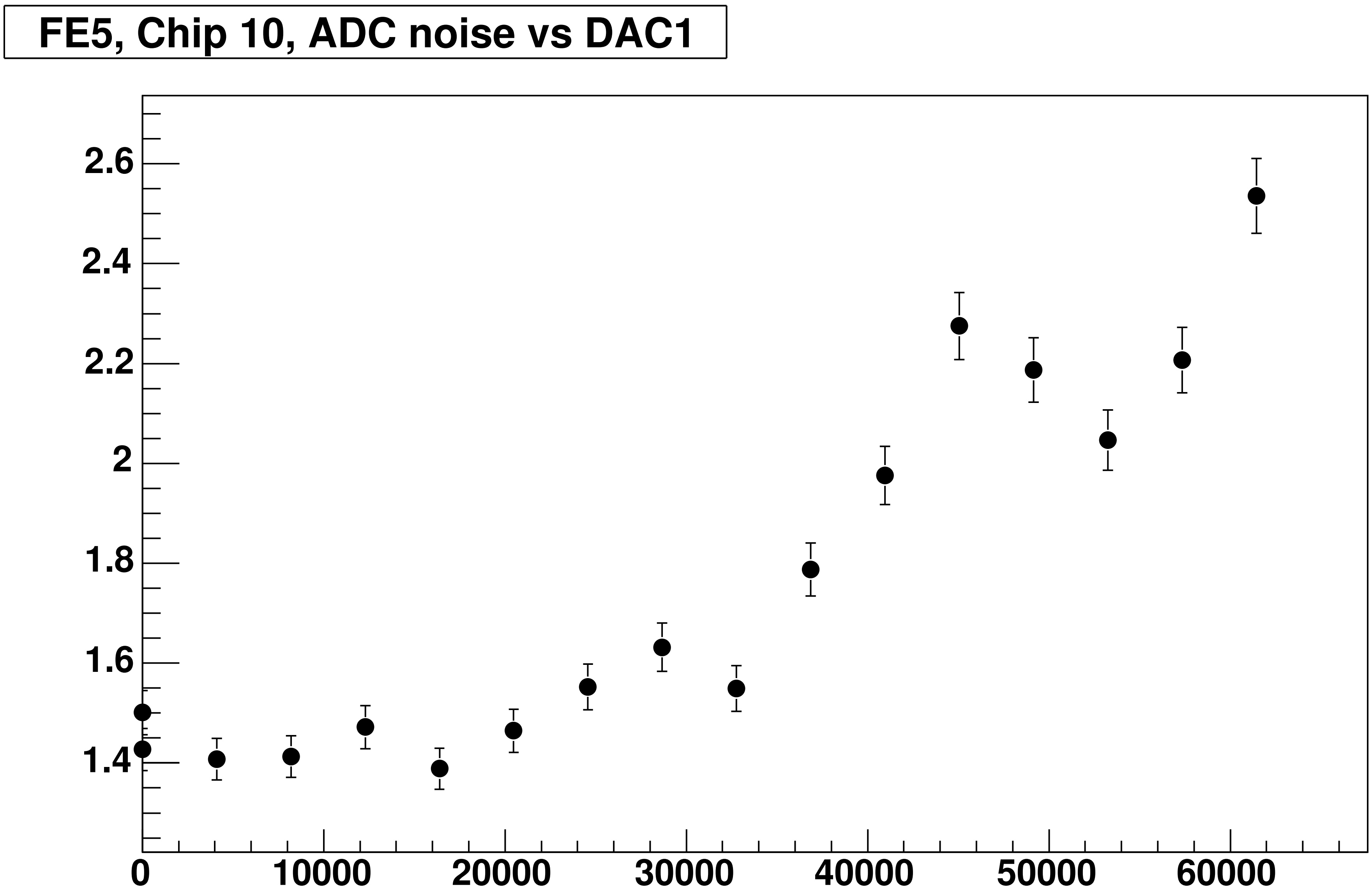

FE5, Chip 9, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

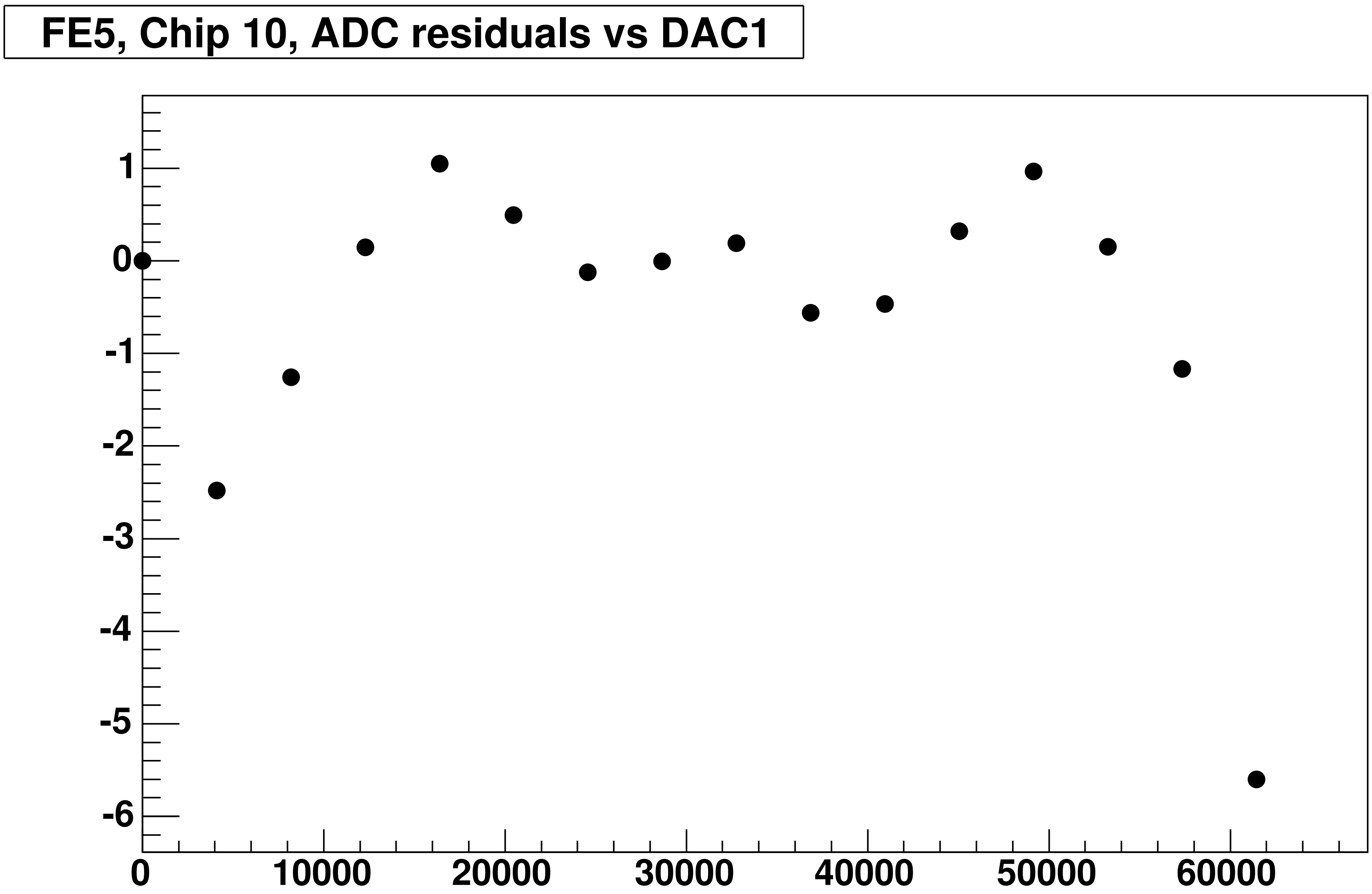

FE5, Chip 10, ADC mean vs DAC0
χ² / ndf 28.25 / 11
p0 81.81 ± 0.04062
p1 -4.15e-06 ± 1.125e-06
81.9
81.8
81.7
81.6
81.5
81.4
81.3
0
10000
20000
30000
40000
50000
60000

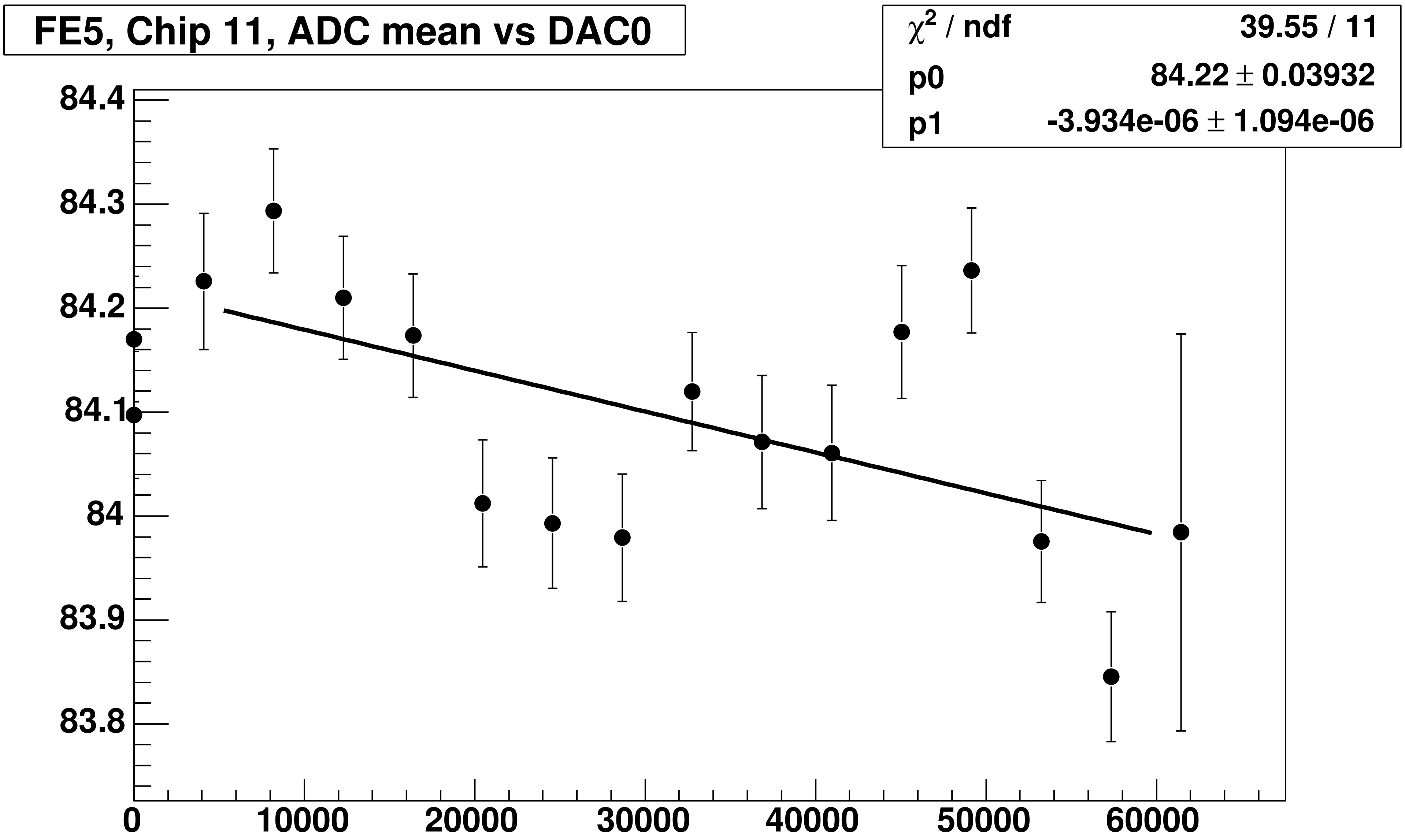

FE5, Chip 10, ADC noise vs DAC0
5
4.5
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

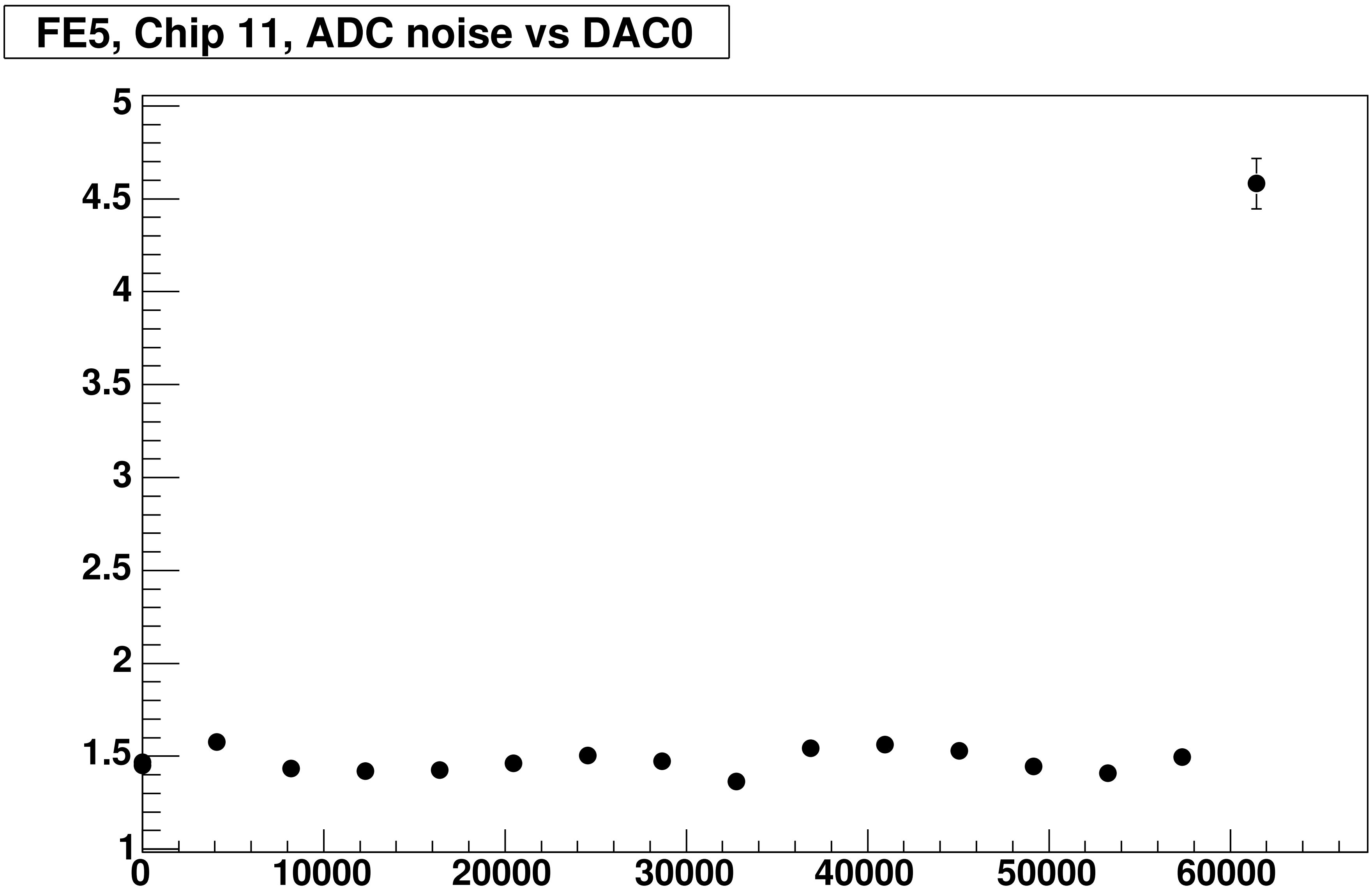

FE5, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

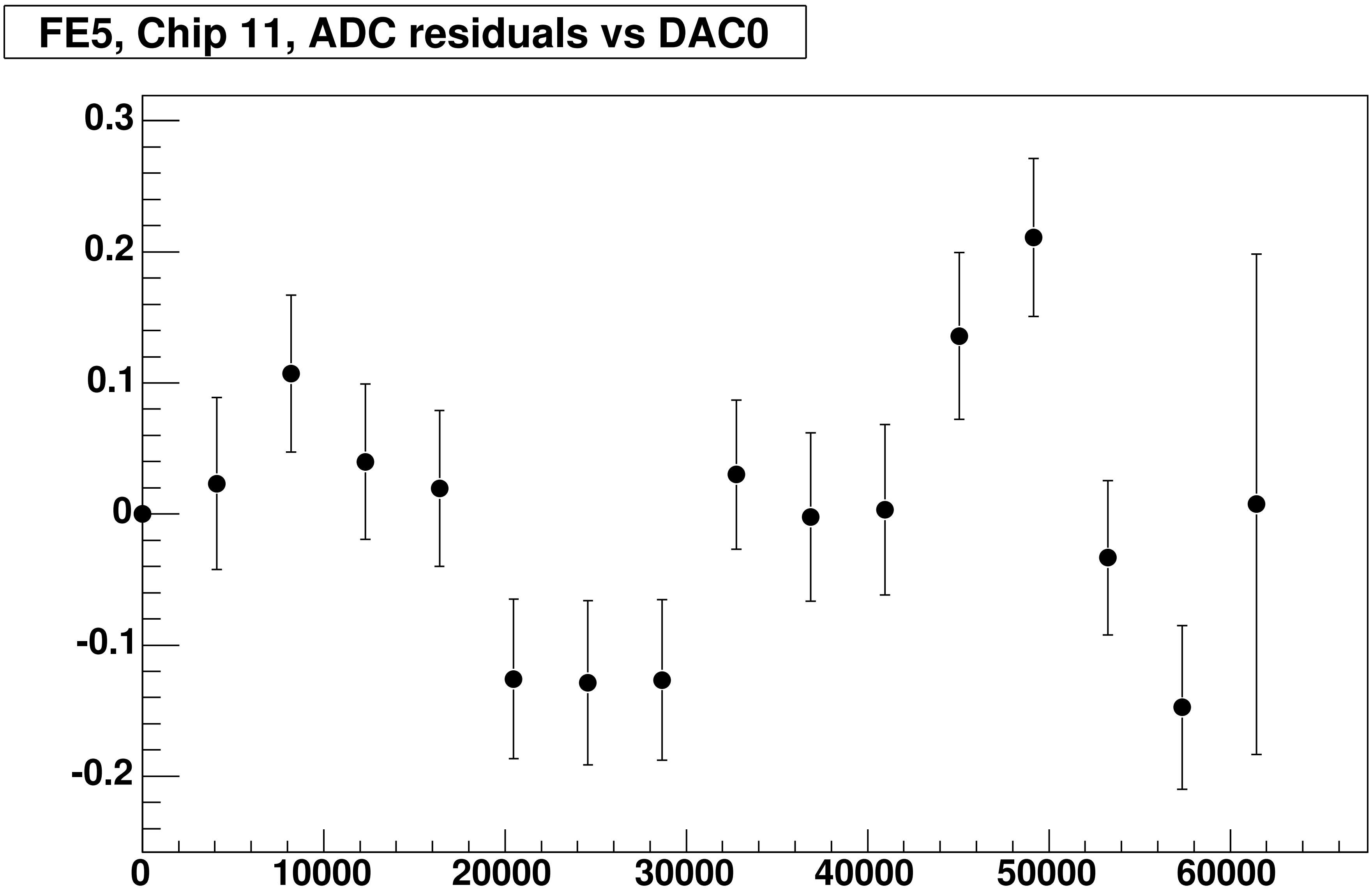

FE5, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1242 / 11
p0 85.39 ± 0.04227
p1 0.4505 ± 1.34e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

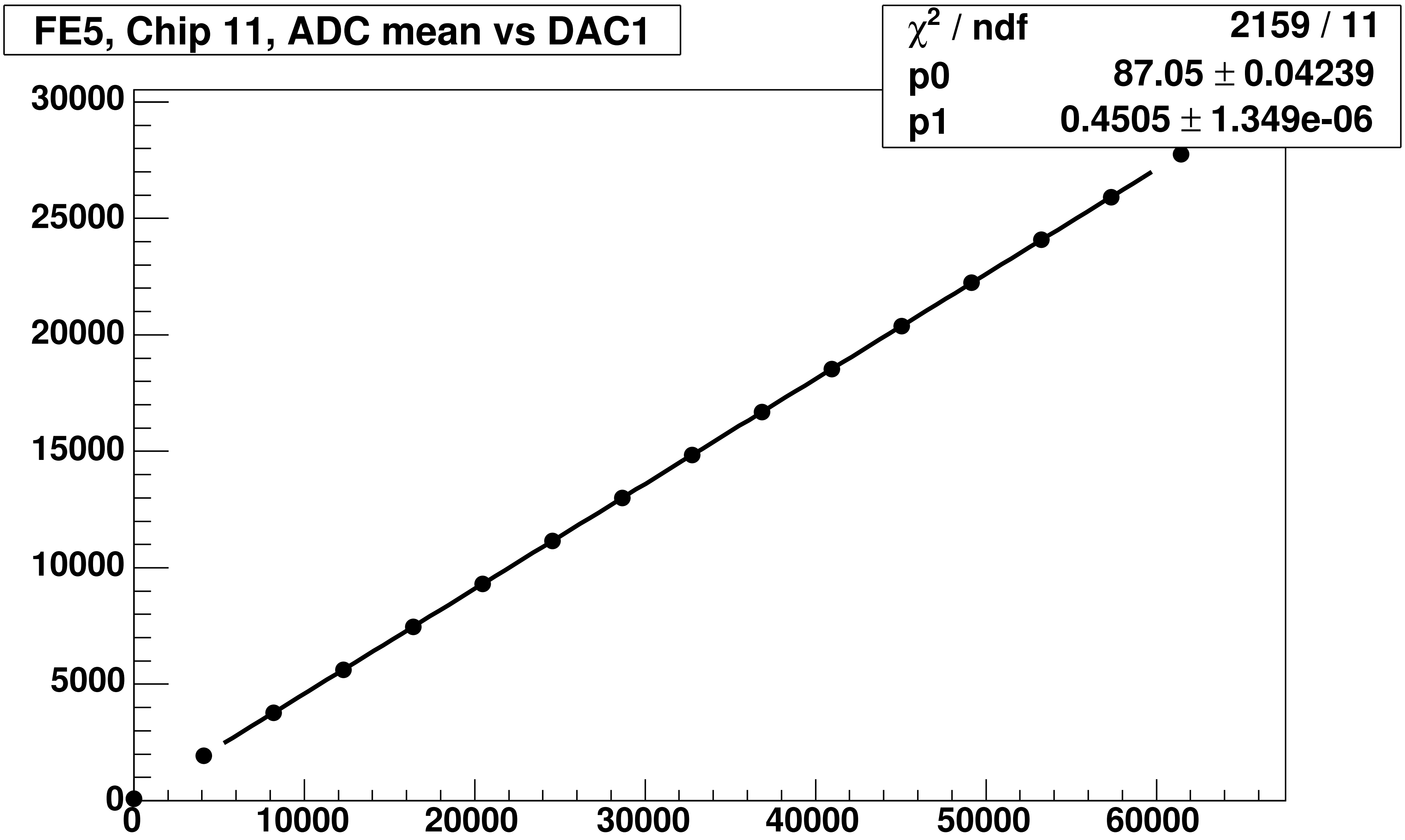

FE5, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

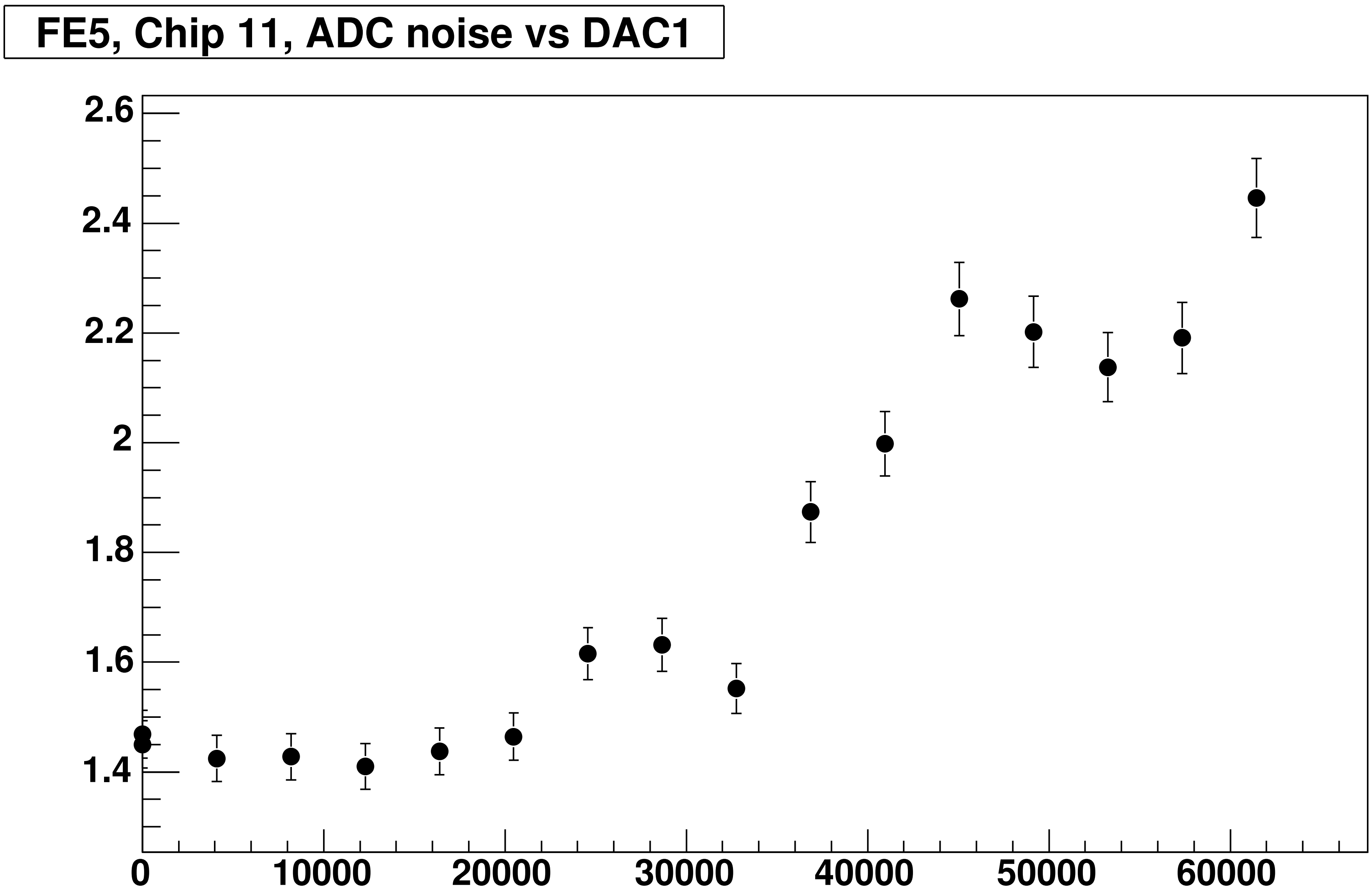

FE5, Chip 11, ADC mean vs DAC0
χ^2 / ndf 39.55 / 11
p0 84.22 ± 0.03932
p1 -3.934e-06 ± 1.094e-06
84.4
84.3
84.2
84.1
84
83.9
83.8
0
10000
20000
30000
40000
50000
60000

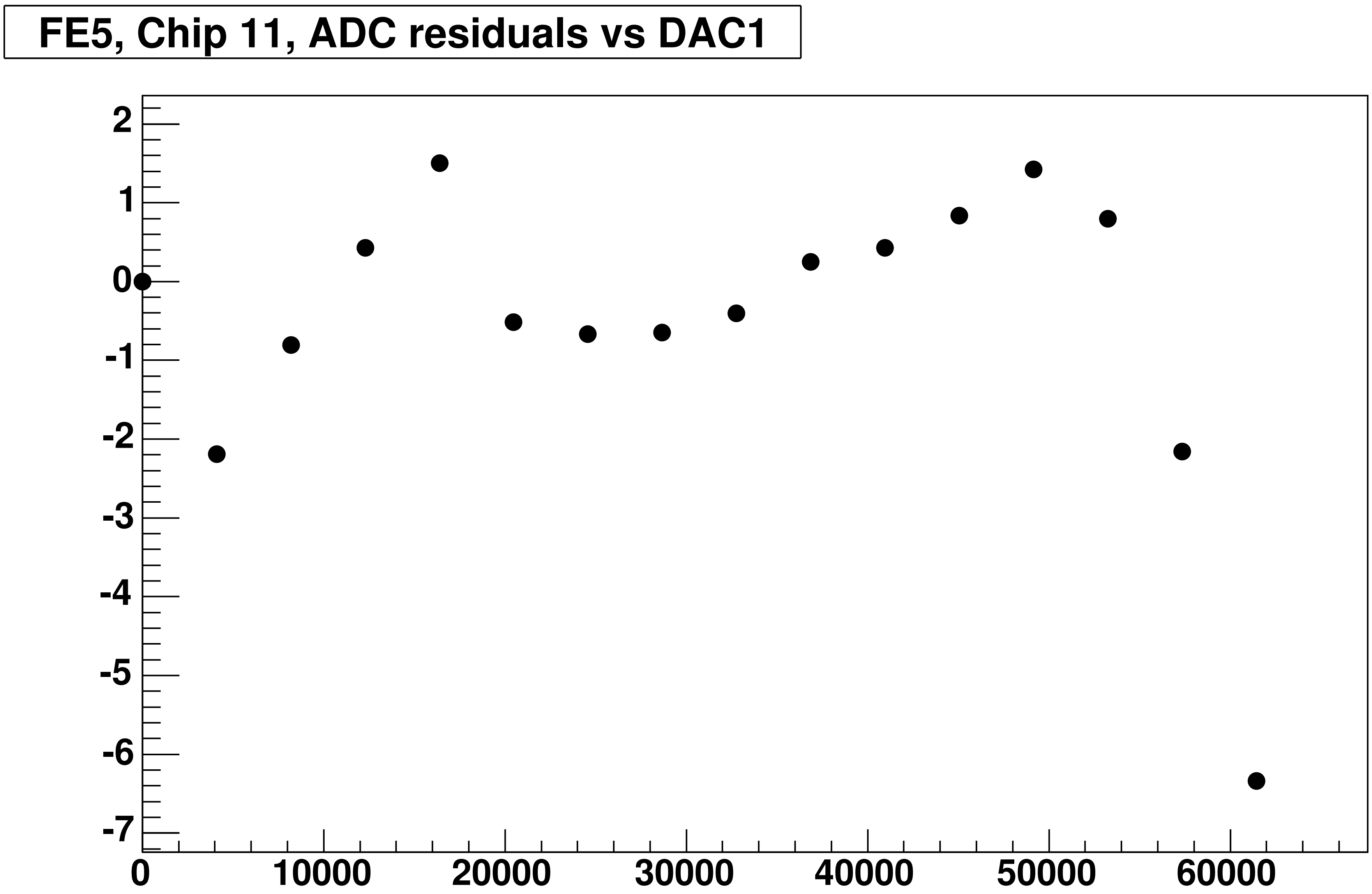

FE5, Chip 11, ADC noise vs DAC0
5
4.5
4
3.5
3
2.5
2
1.5
1
0
10000
20000
30000
40000
50000
60000

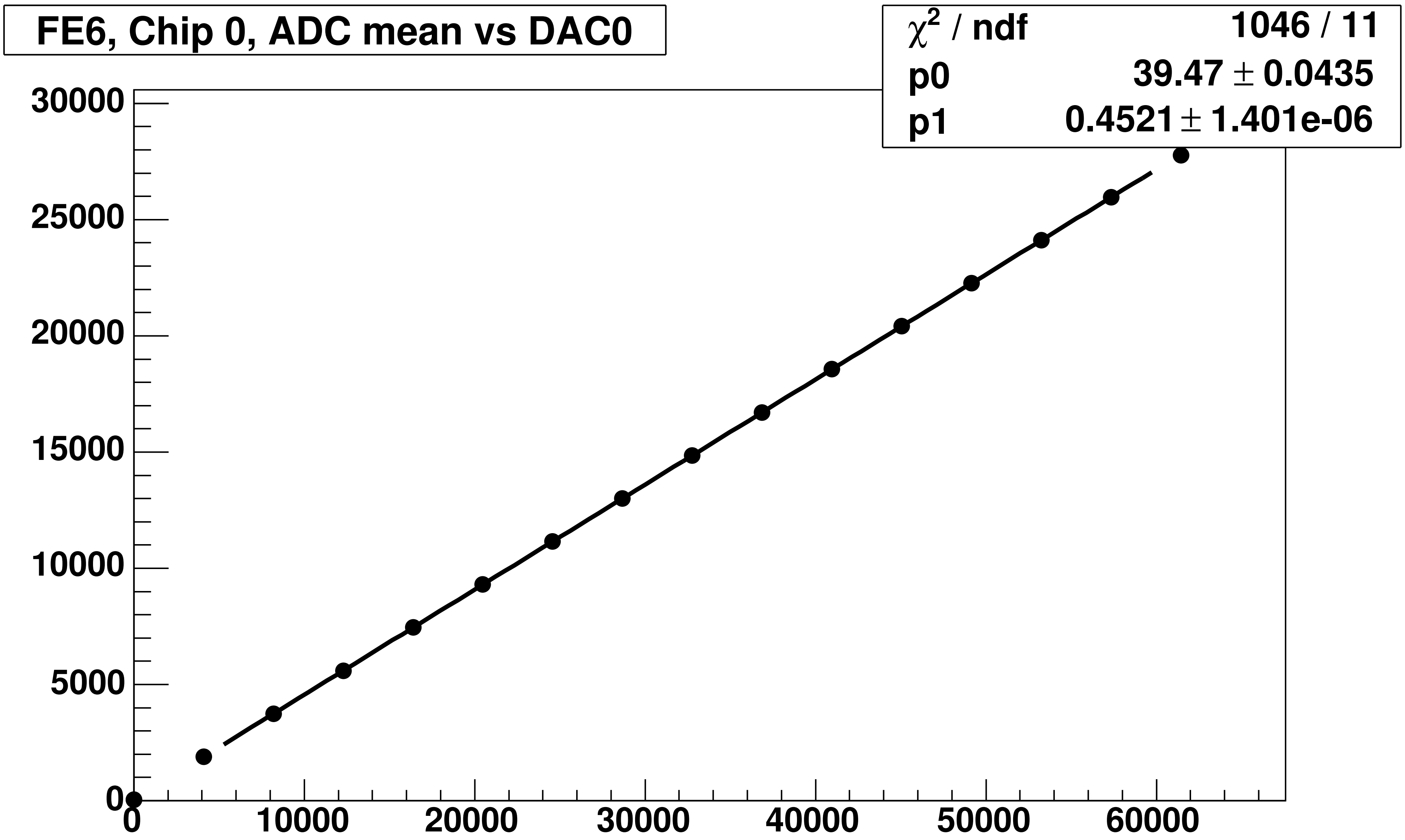

FE5, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

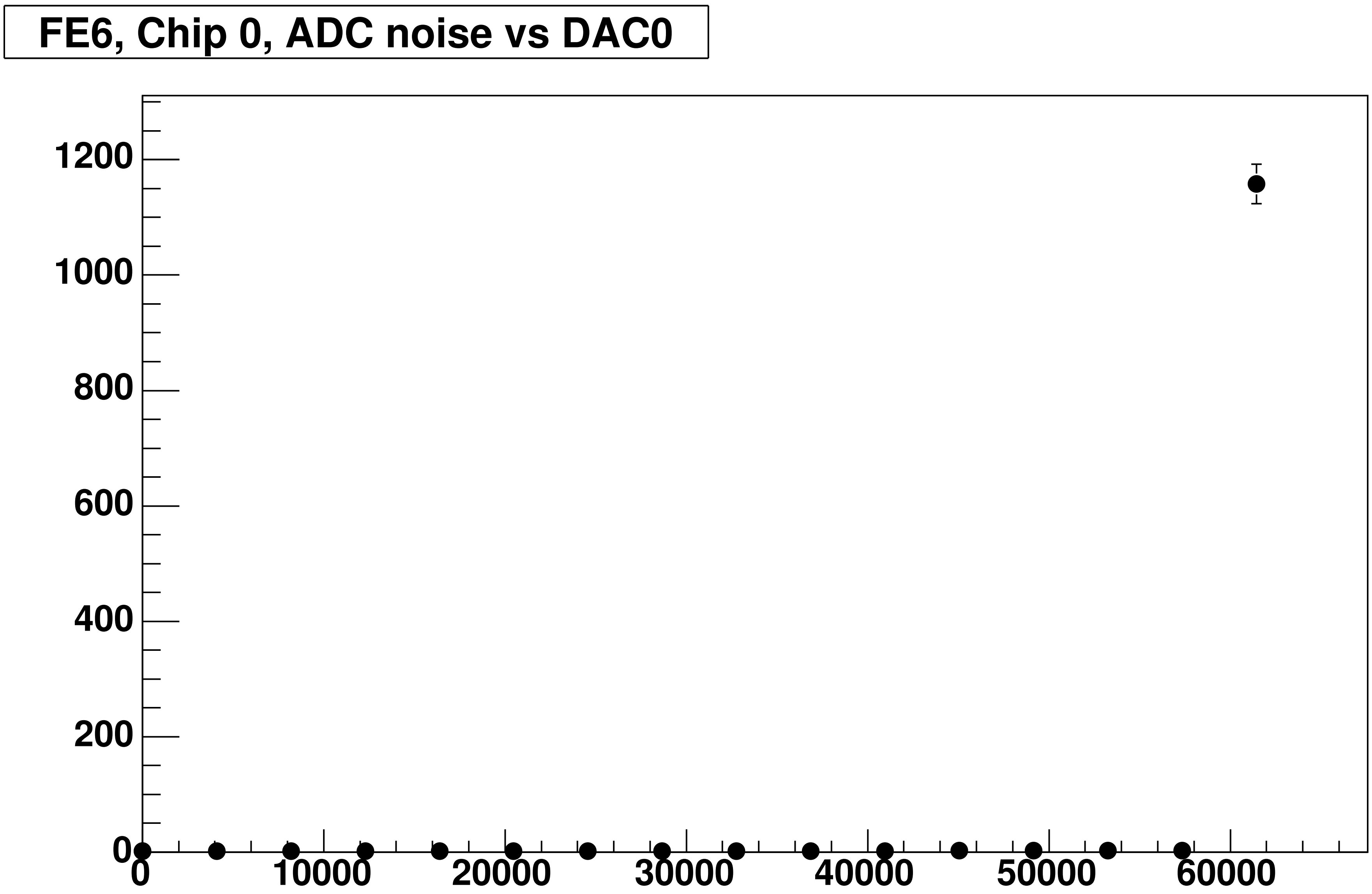


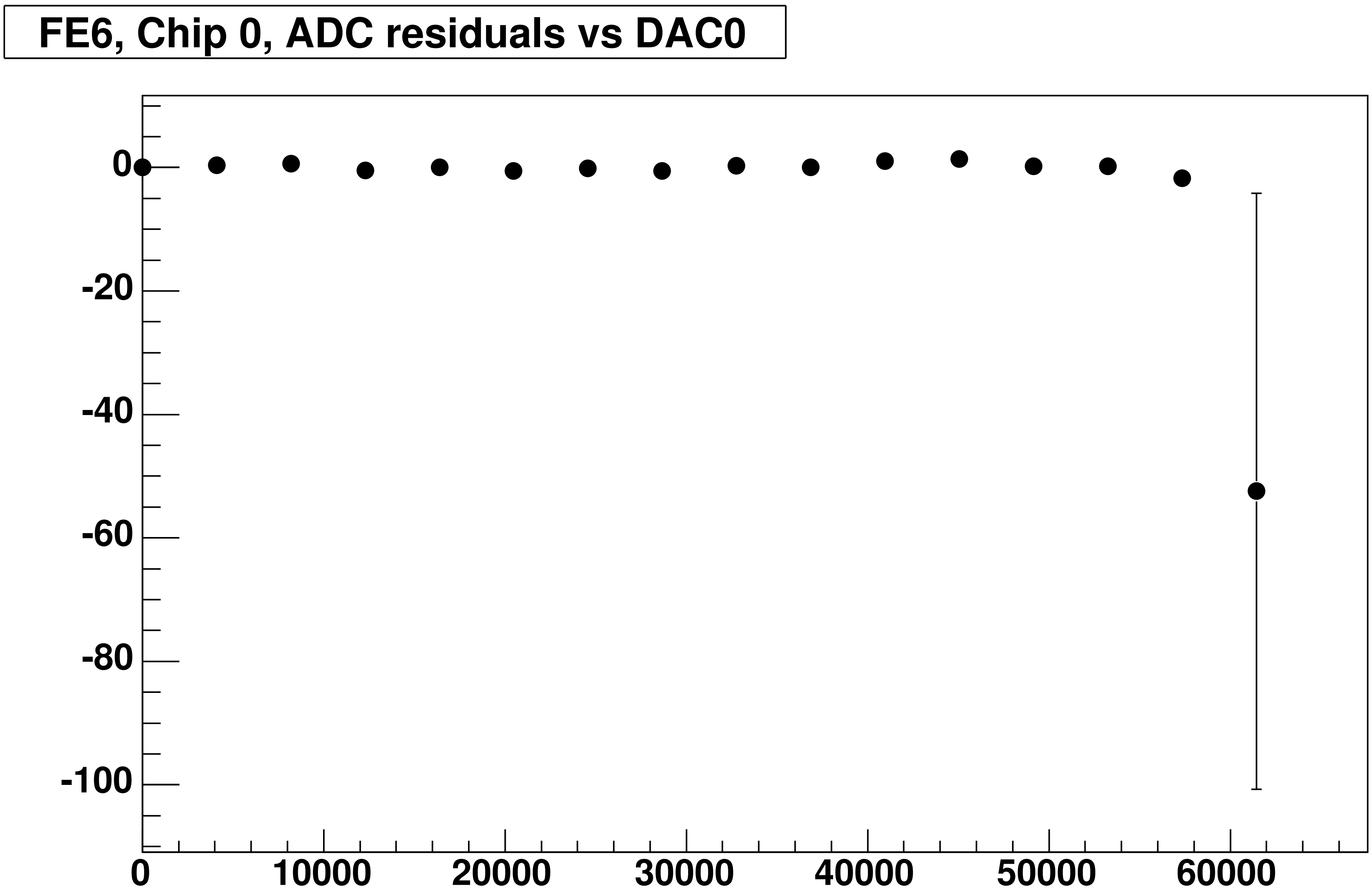
FE5, Chip 11, ADC mean vs DAC1
χ^2 / ndf 2159 / 11
p0 87.05 ± 0.04239
p1 0.4505 ± 1.349e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

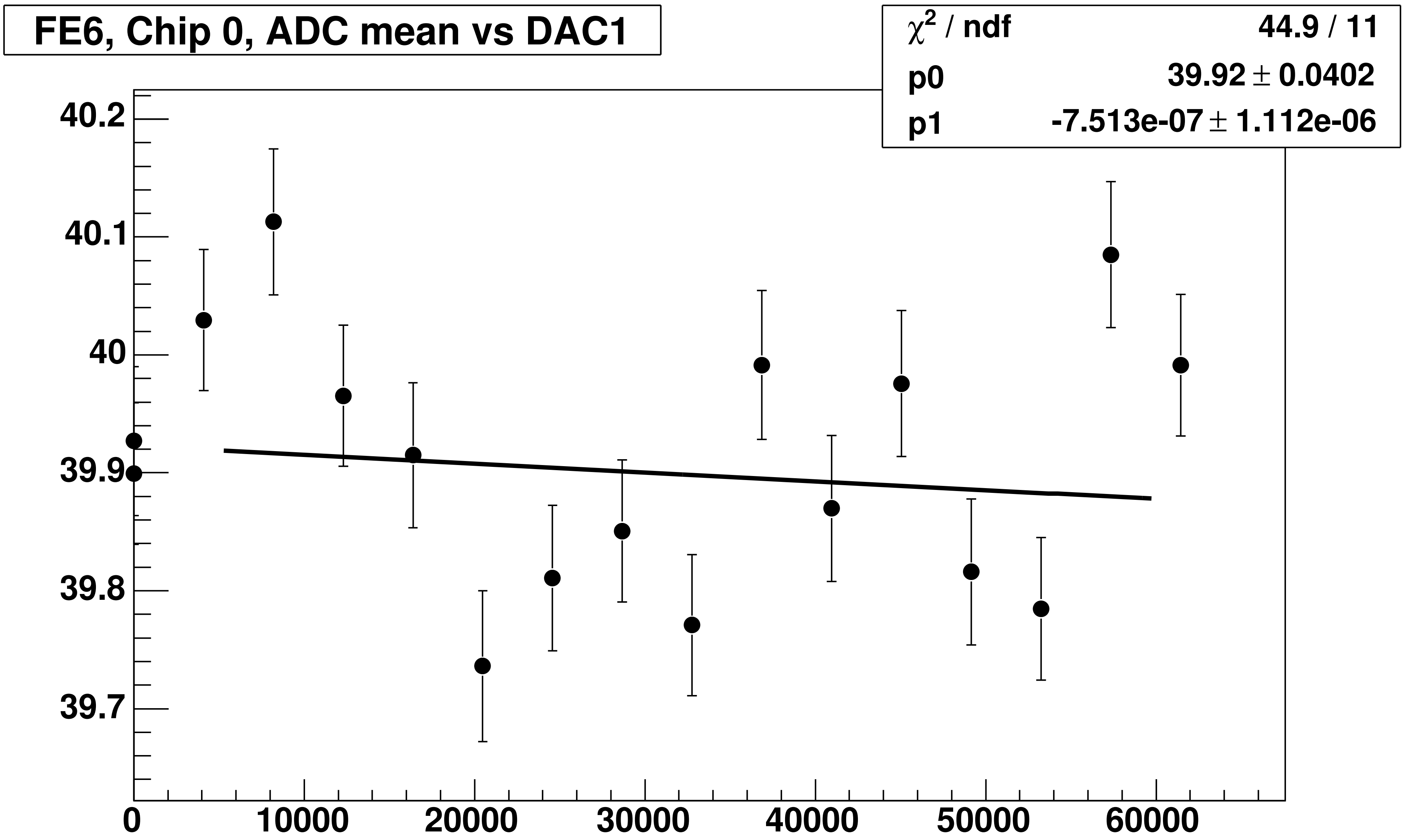

FE5, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

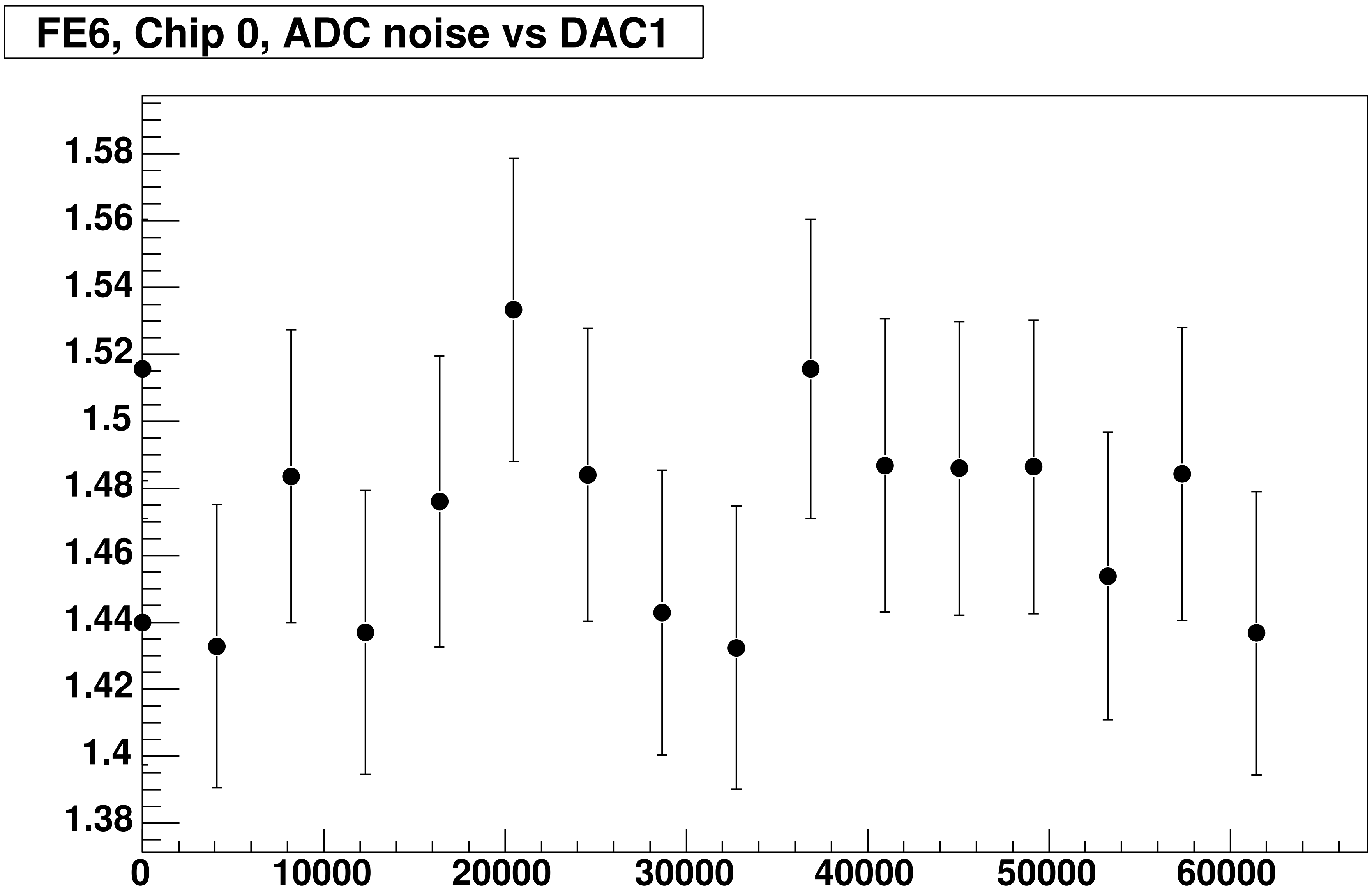

FE5, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

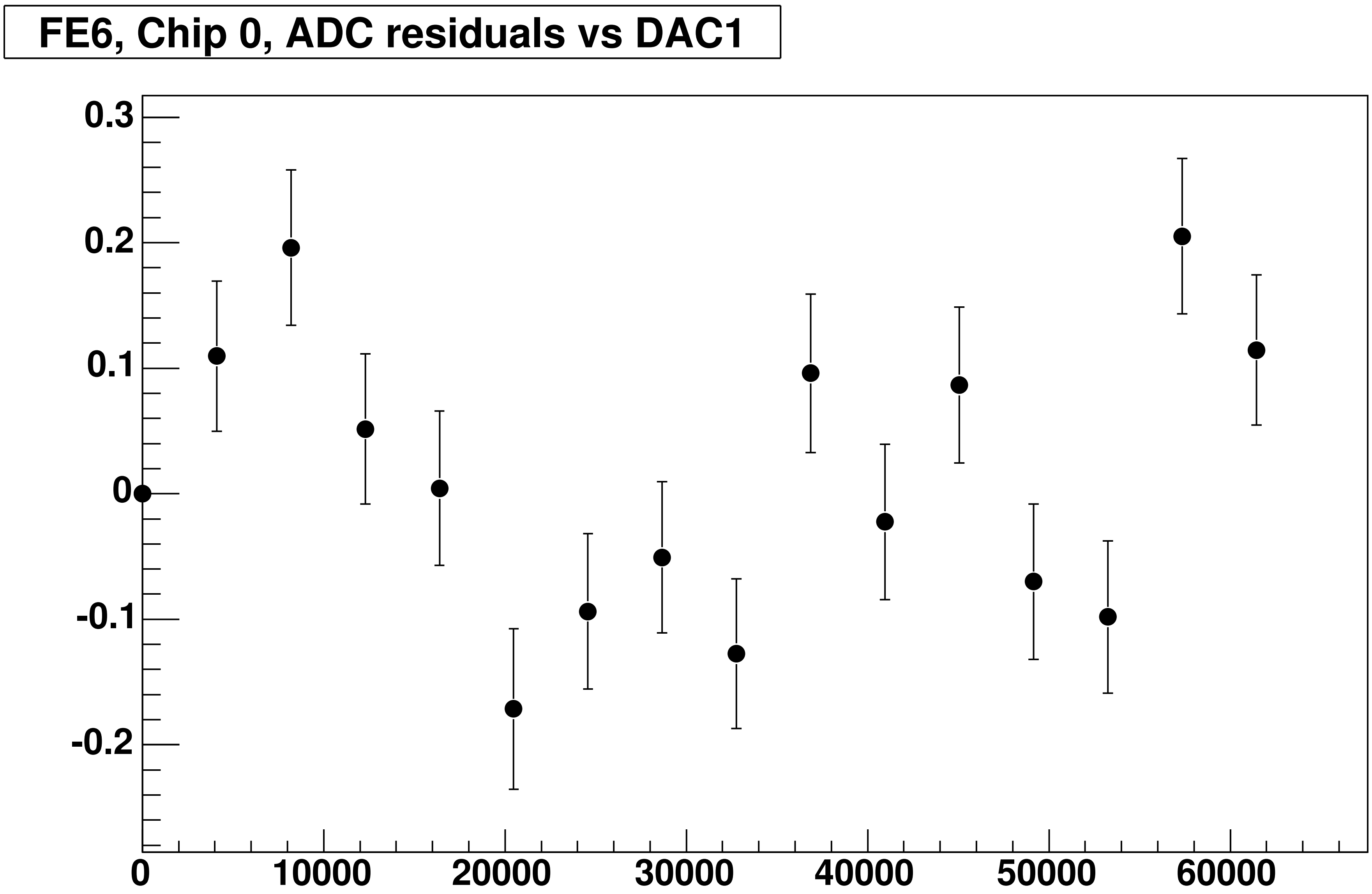

FE6, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1046 / 11
p0 39.47 ± 0.0435
p1 0.4521 ± 1.401e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

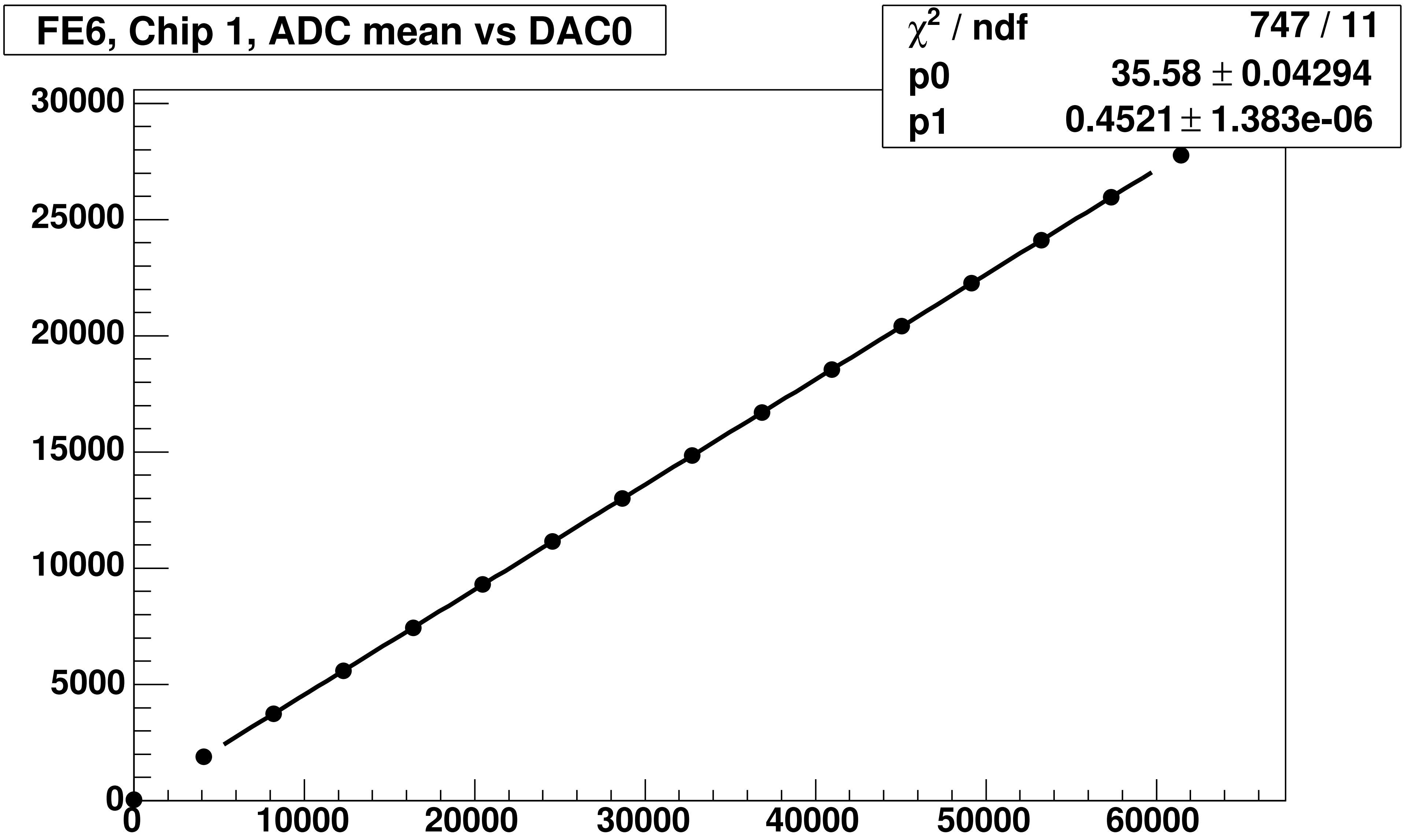

FE6, Chip 0, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000


FE6, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

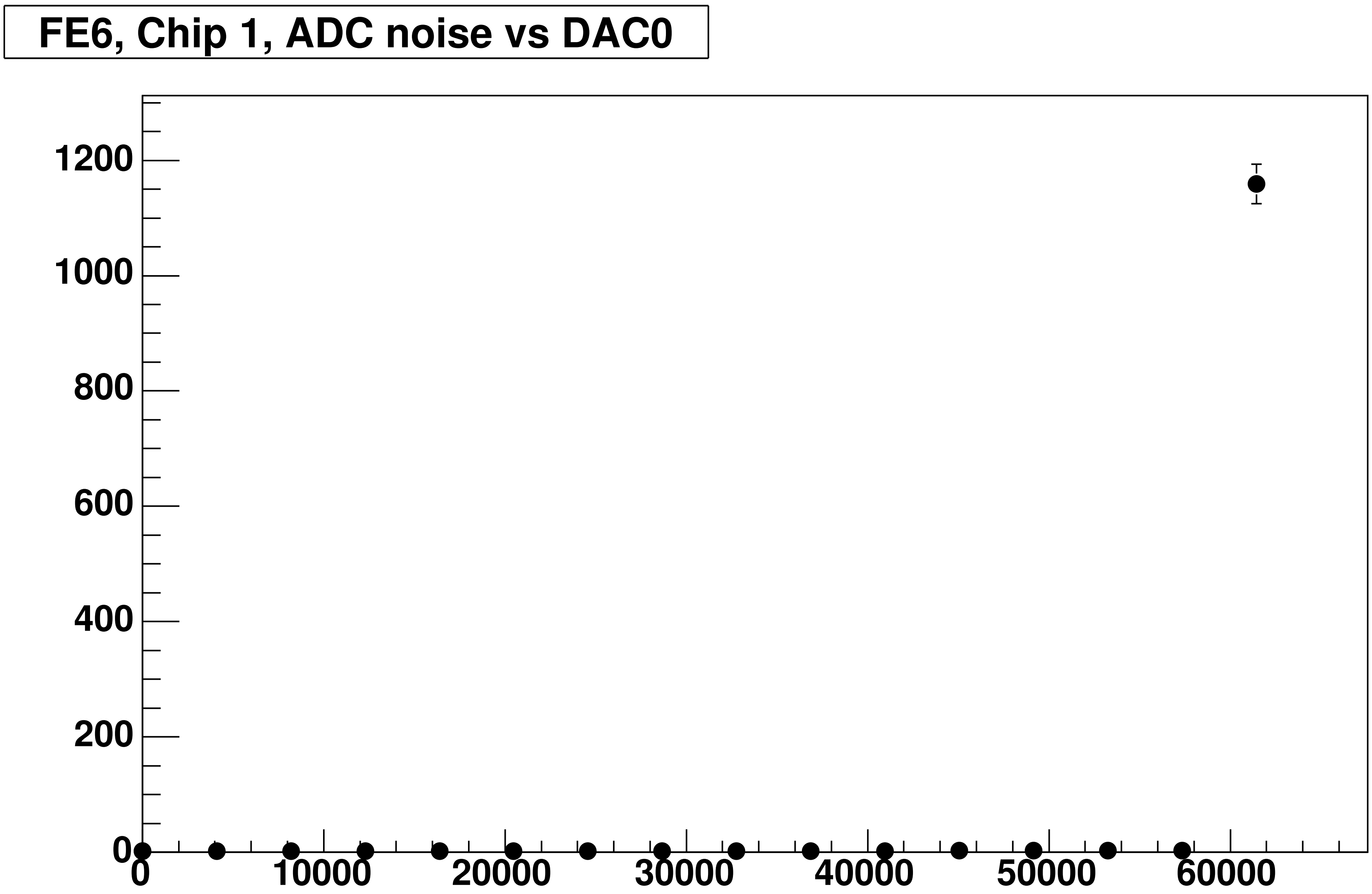

FE6, Chip 0, ADC mean vs DAC1
χ^2 / ndf 44.9 / 11
p0 39.92 ± 0.0402
p1 -7.513e-07 ± 1.112e-06
40.2
40.1
40
39.9
39.8
39.7
0
10000
20000
30000
40000
50000
60000

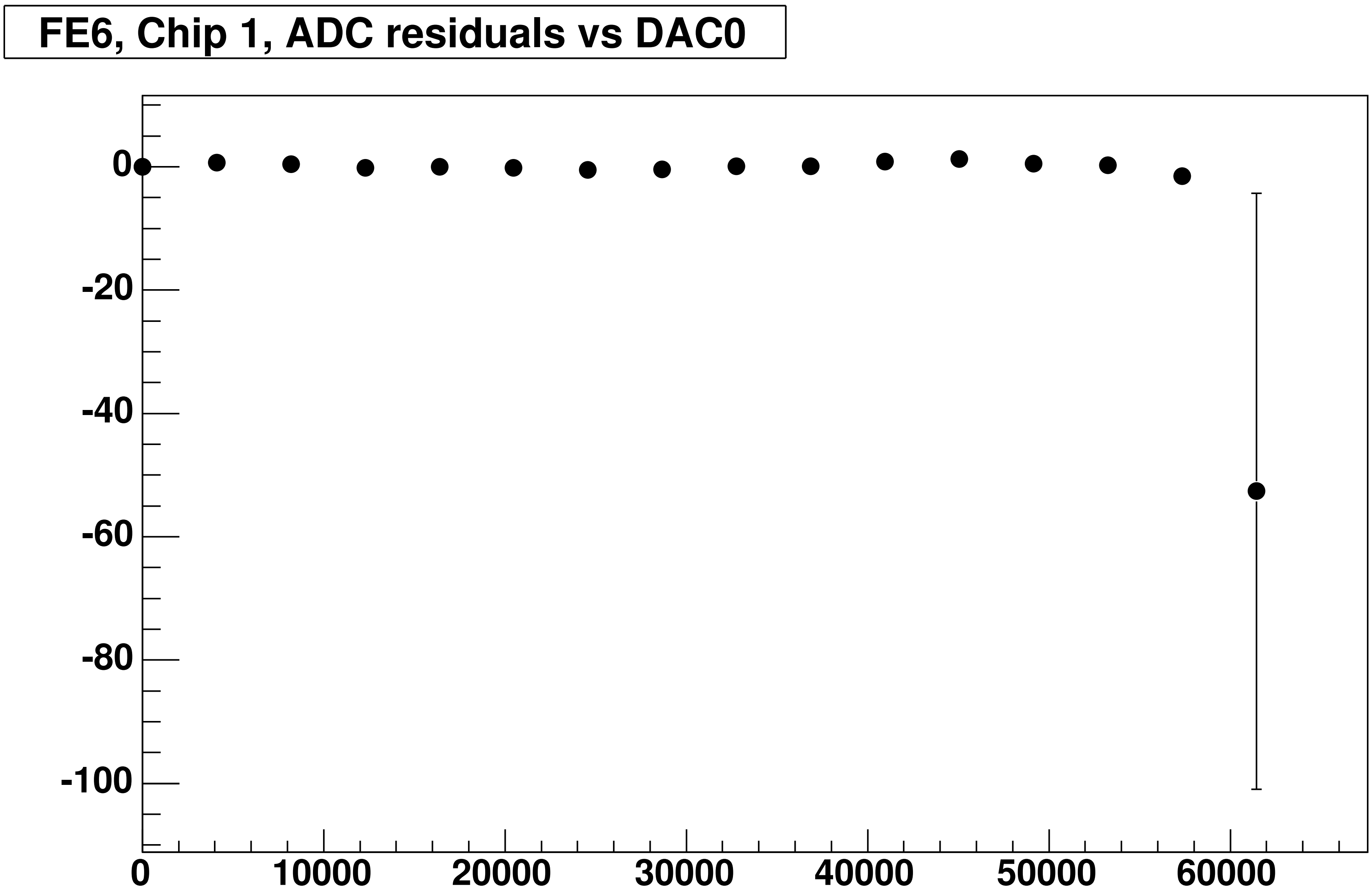

FE6, Chip 0, ADC noise vs DAC1
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
0
10000
20000
30000
40000
50000
60000


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

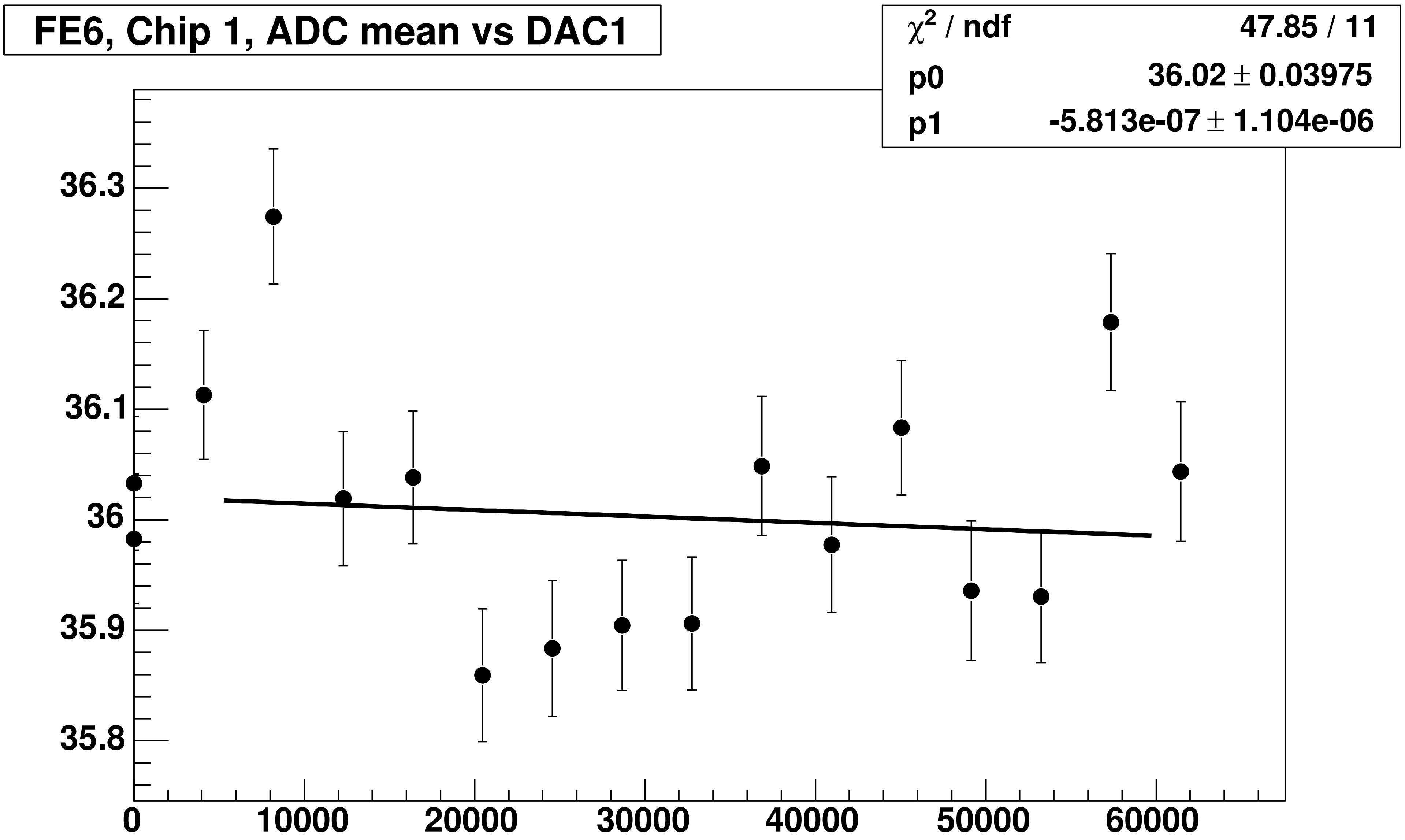


FE6, Chip 1, ADC mean vs DAC0
χ² / ndf 747 / 11
p0 35.58 ± 0.04294
p1 0.4521 ± 1.383e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

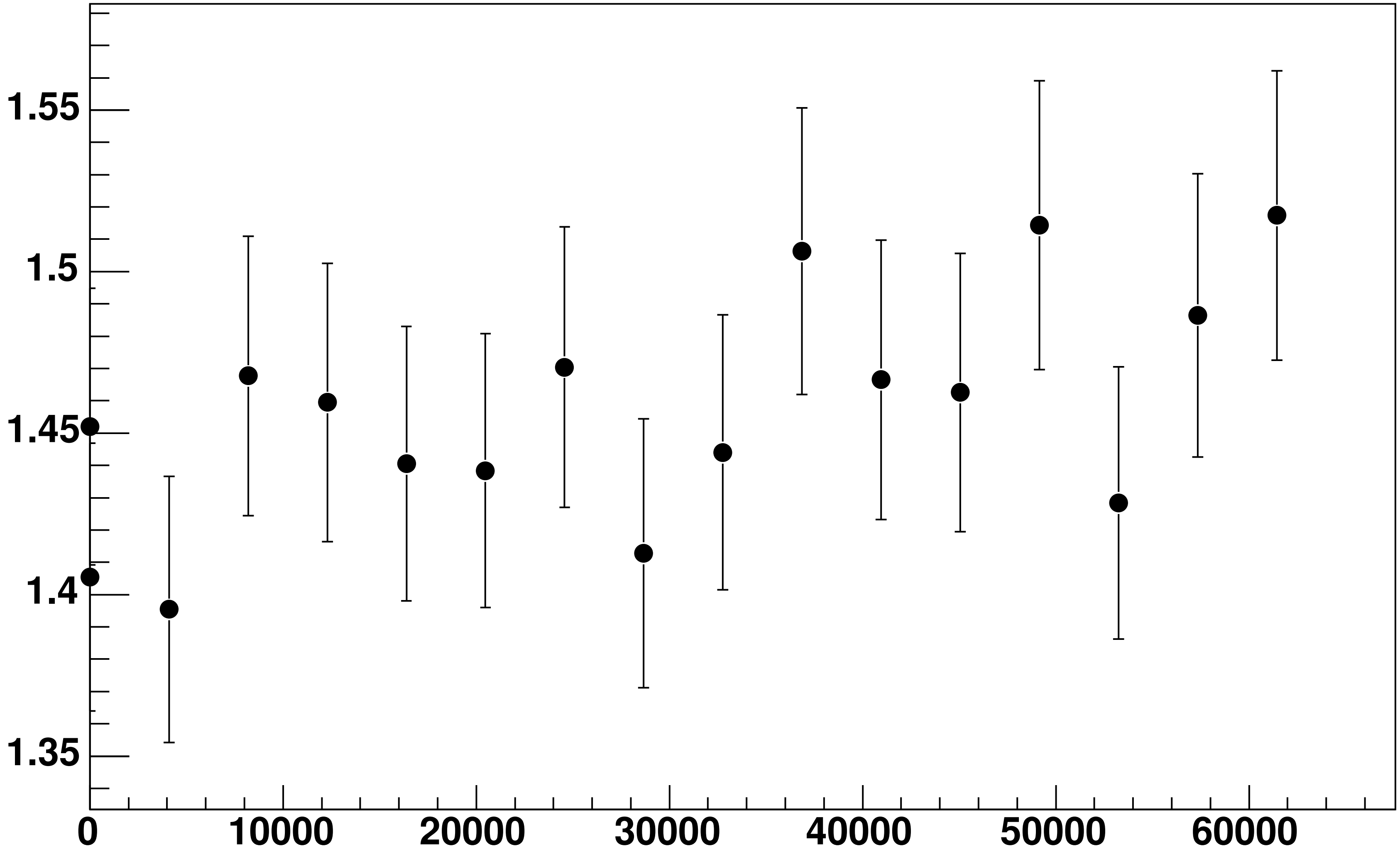

FE6, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



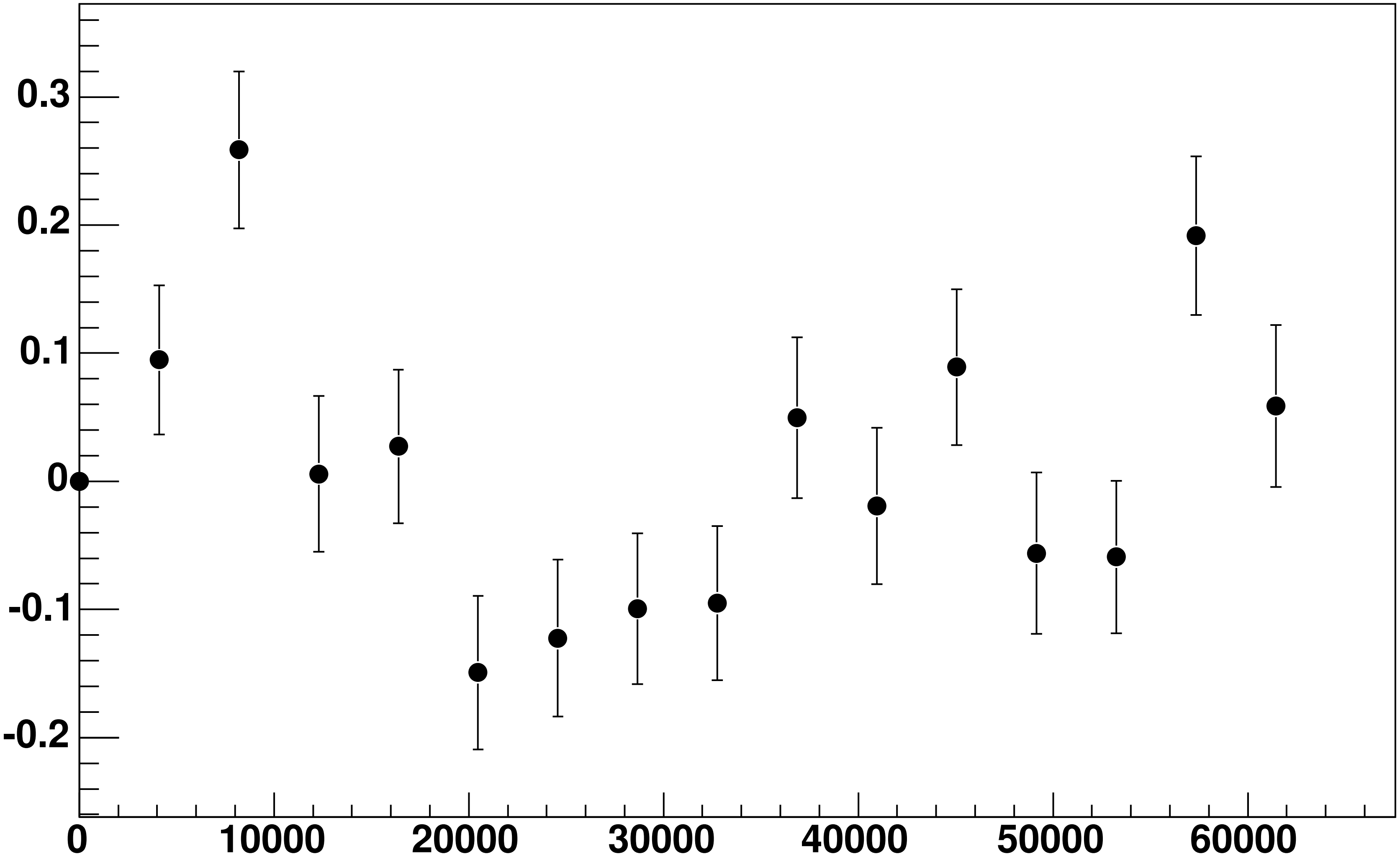
FE6, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

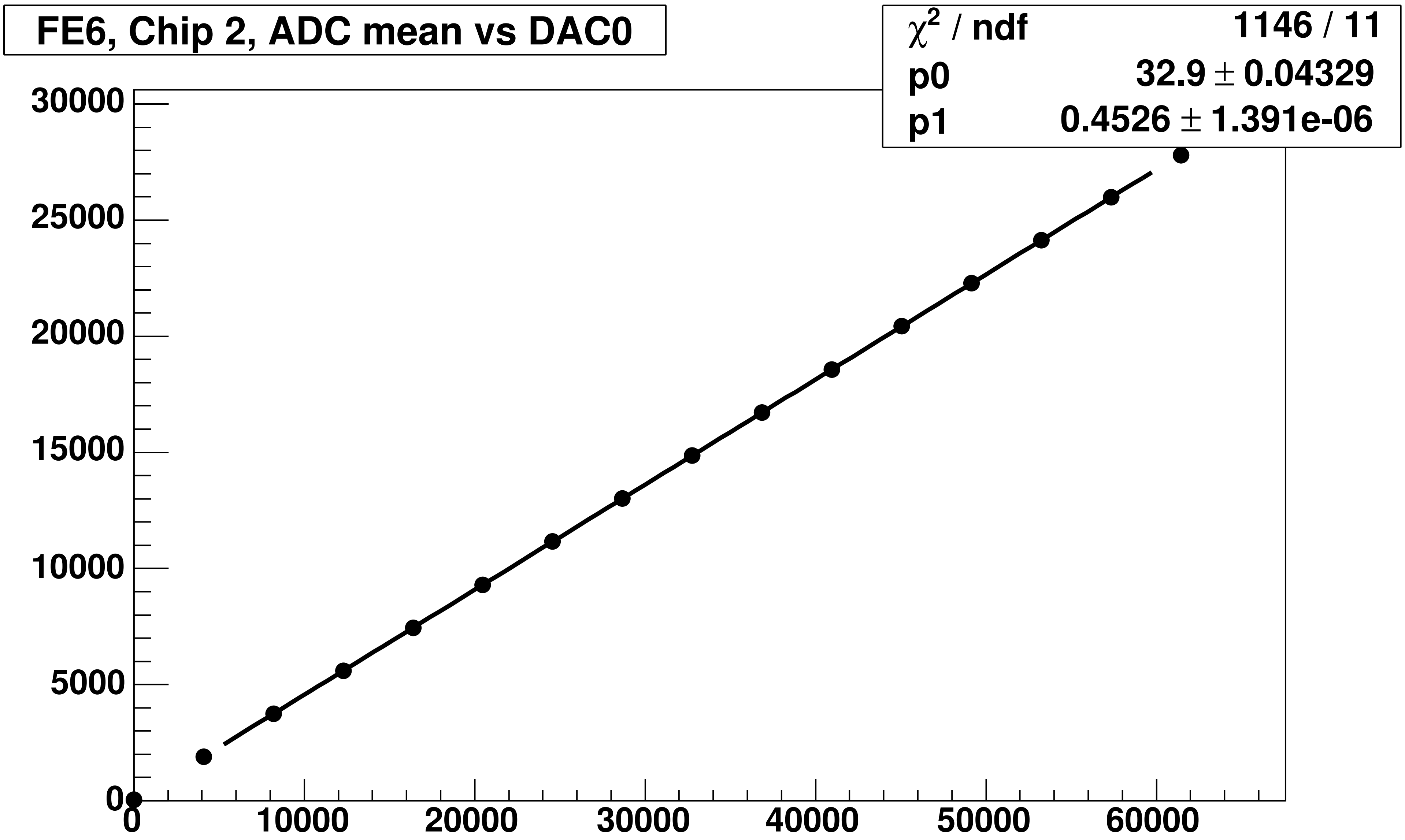

FE6, Chip 1, ADC mean vs DAC1
χ^2 / ndf 47.85 / 11
p0 36.02 ± 0.03975
p1 -5.813e-07 ± 1.104e-06
36.3
36.2
36.1
36
35.9
35.8
0
10000
20000
30000
40000
50000
60000

FE6, Chip 1, ADC noise vs DAC1

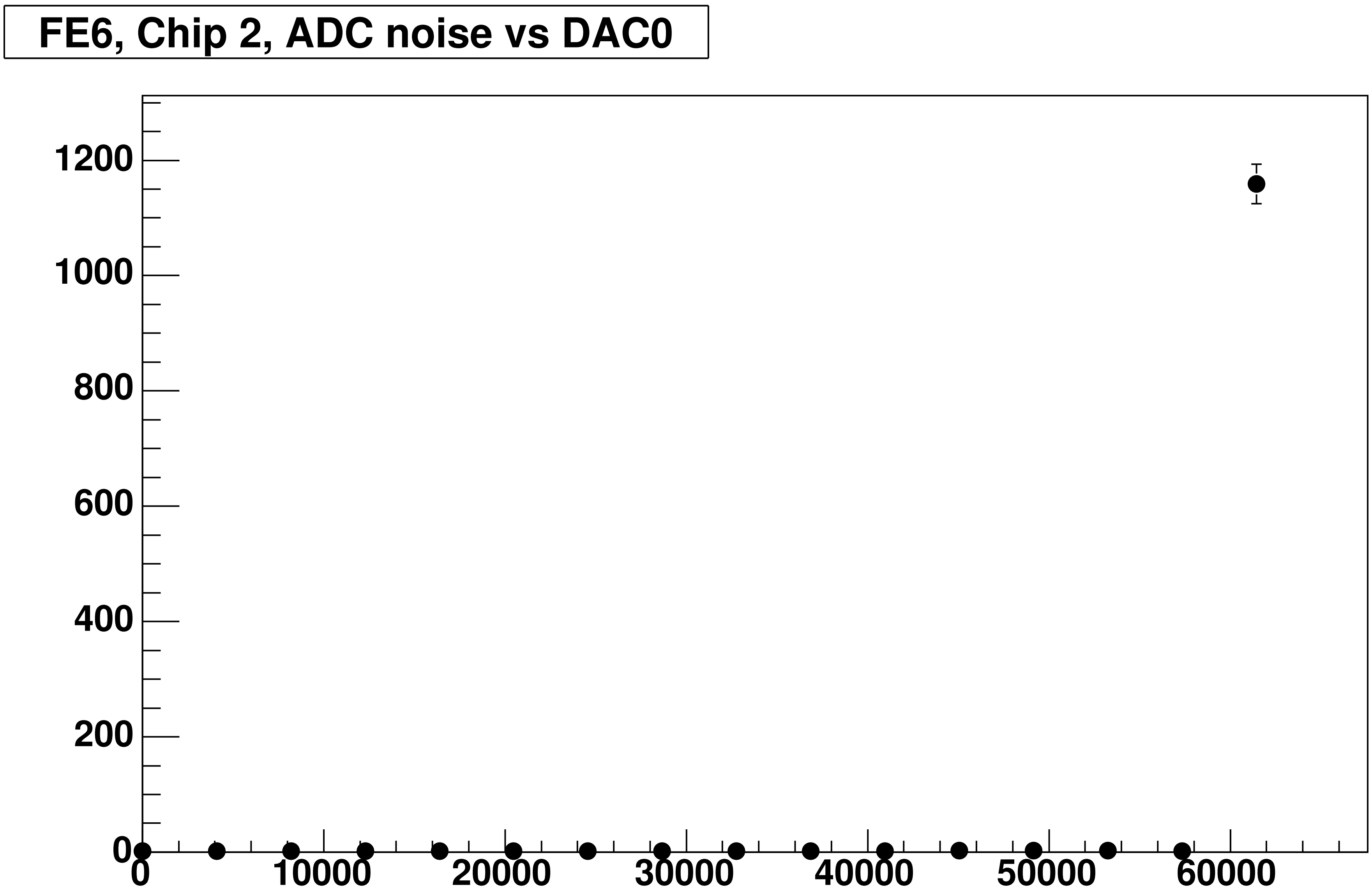


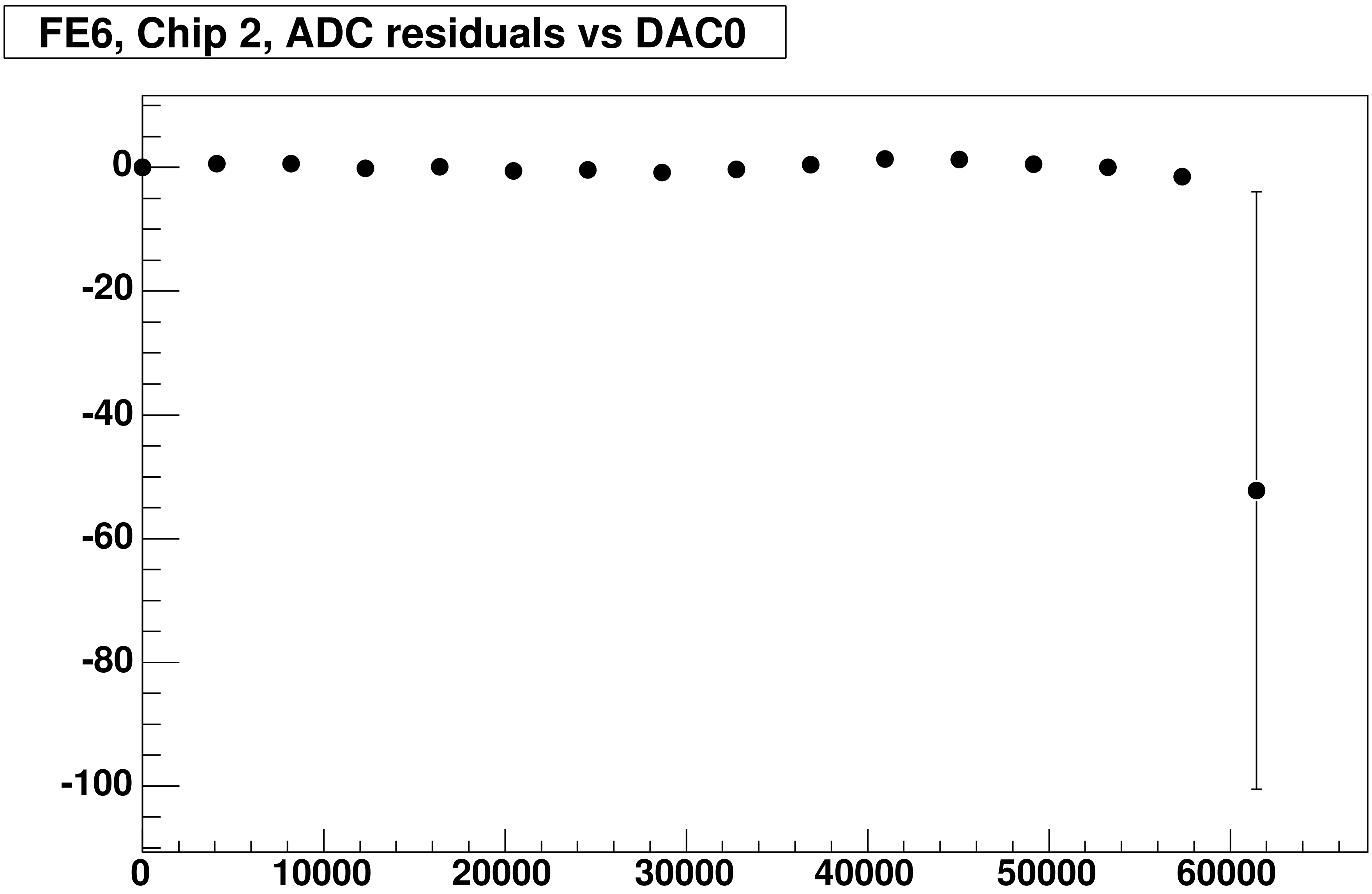
FE6, Chip 1, ADC residuals vs DAC1

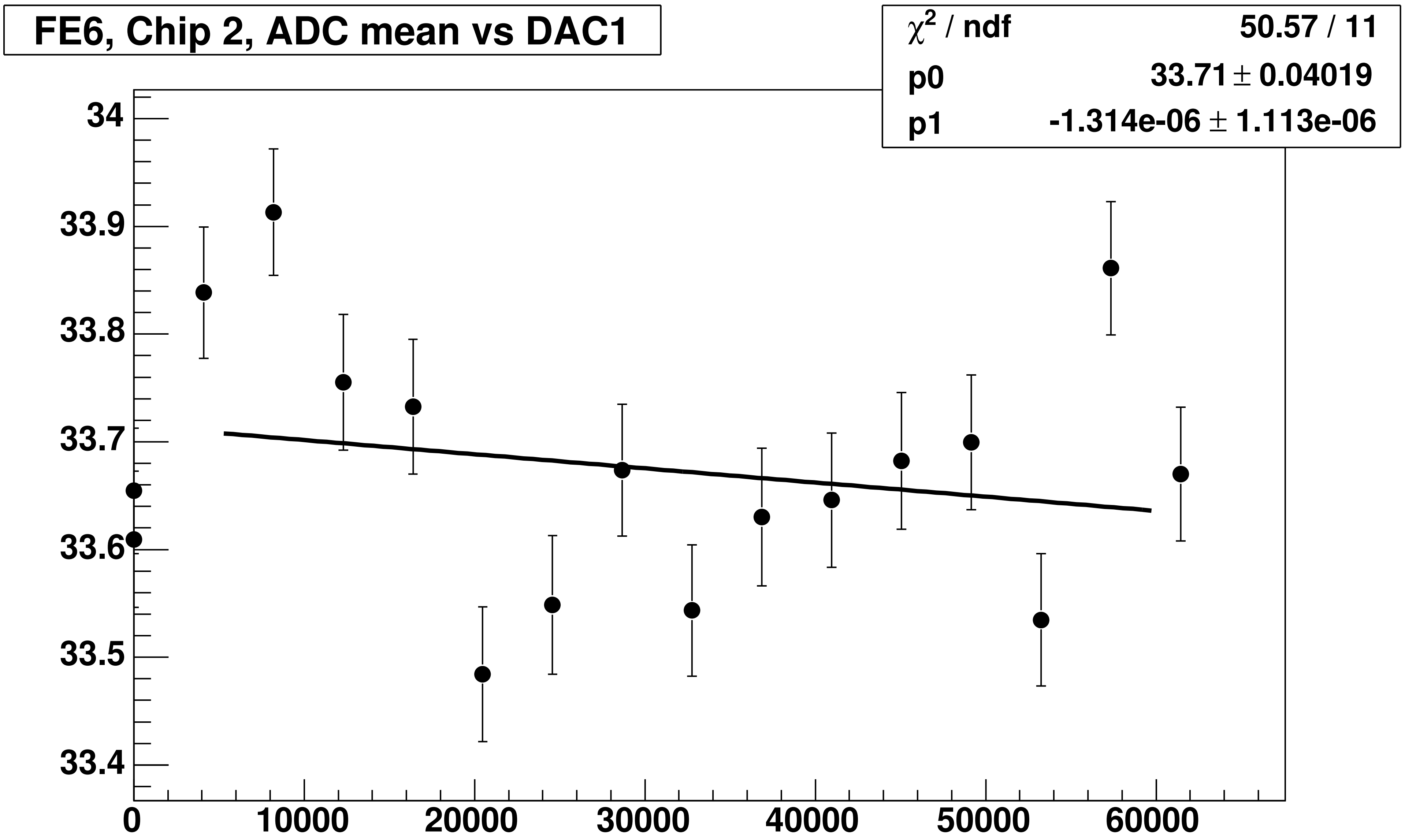




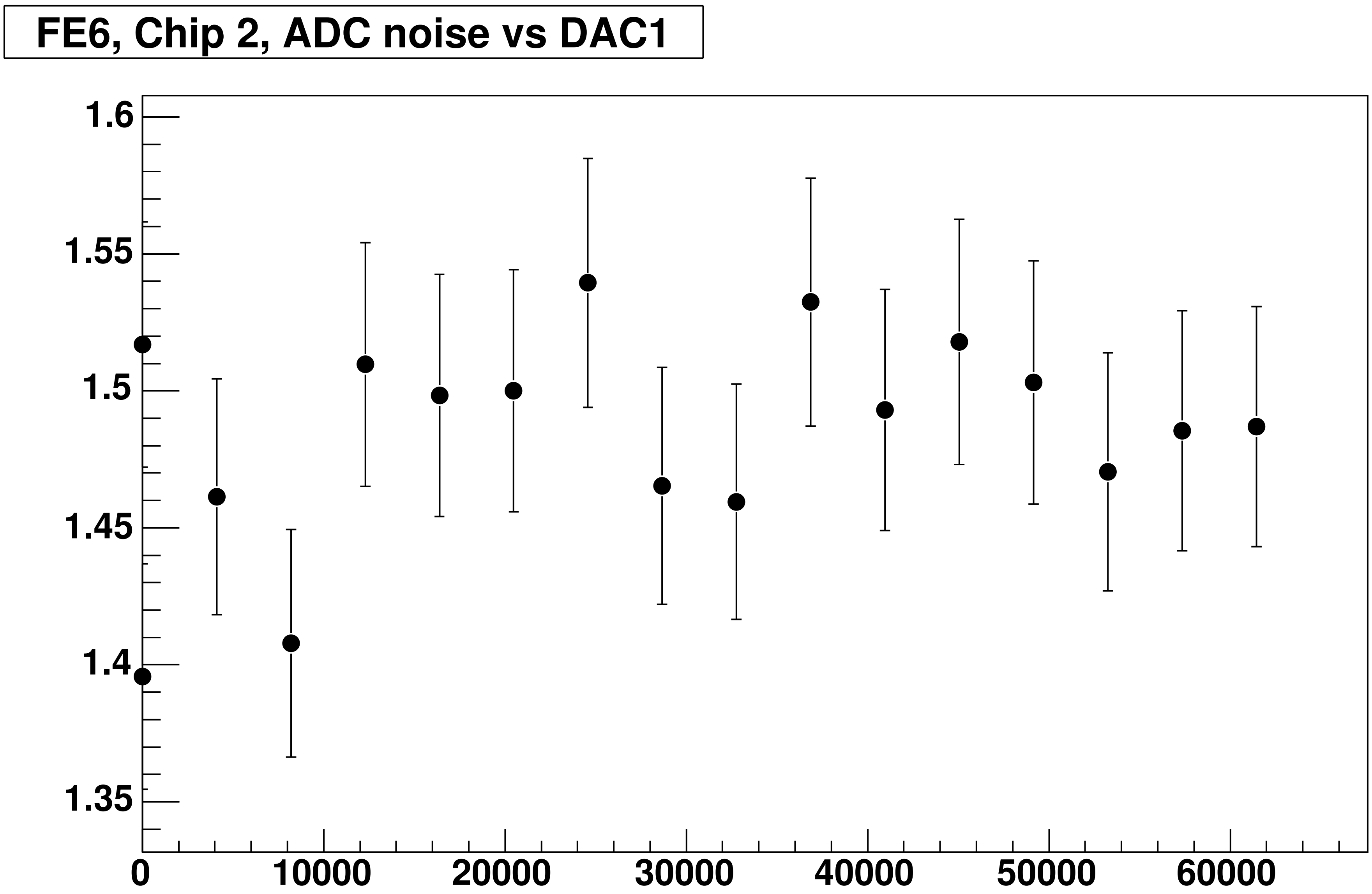
FE6, Chip 2, ADC mean vs DAC0
χ² / ndf 1146 / 11
p0 32.9 ± 0.04329
p1 0.4526 ± 1.391e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

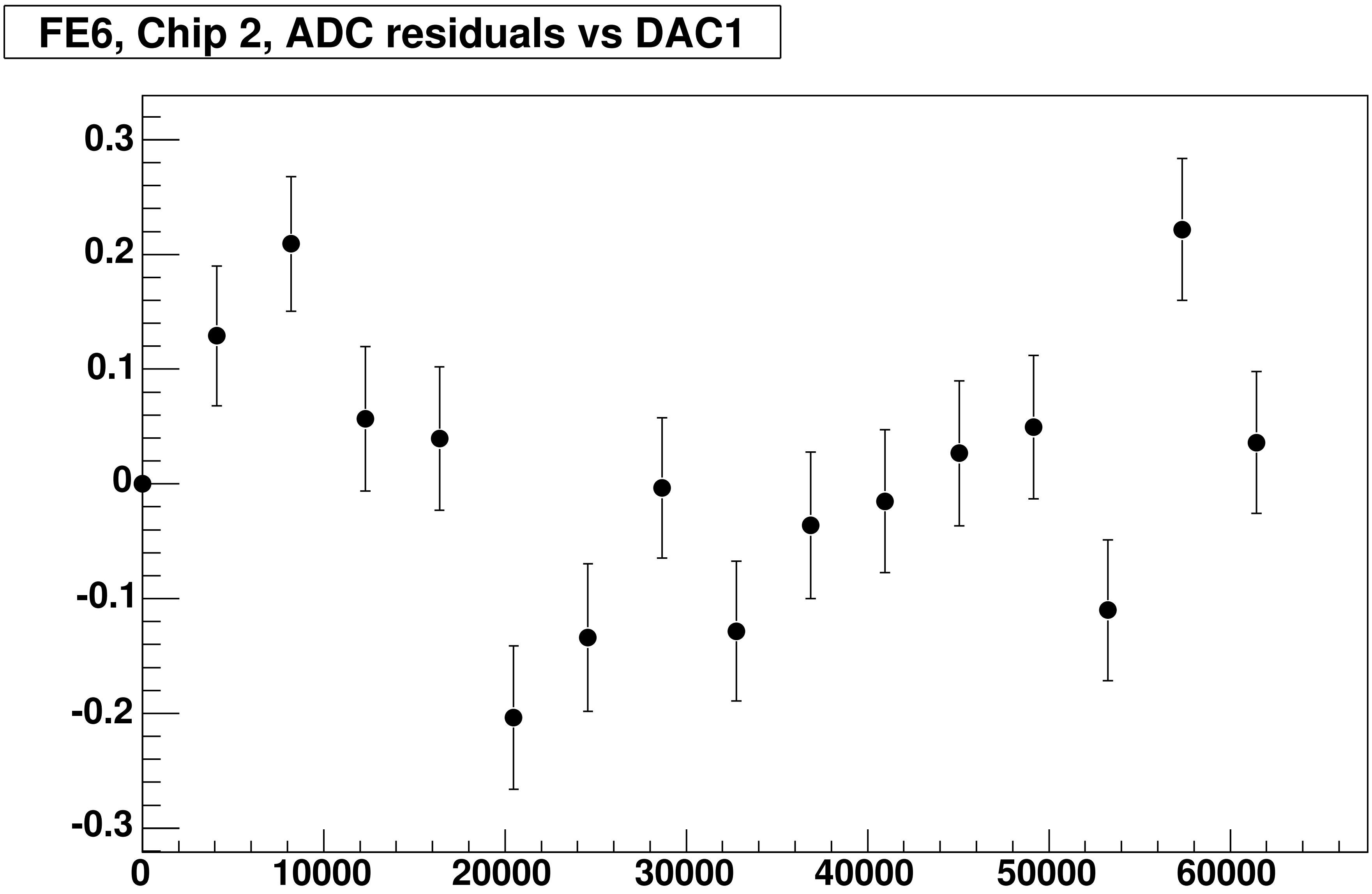

FE6, Chip 2, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

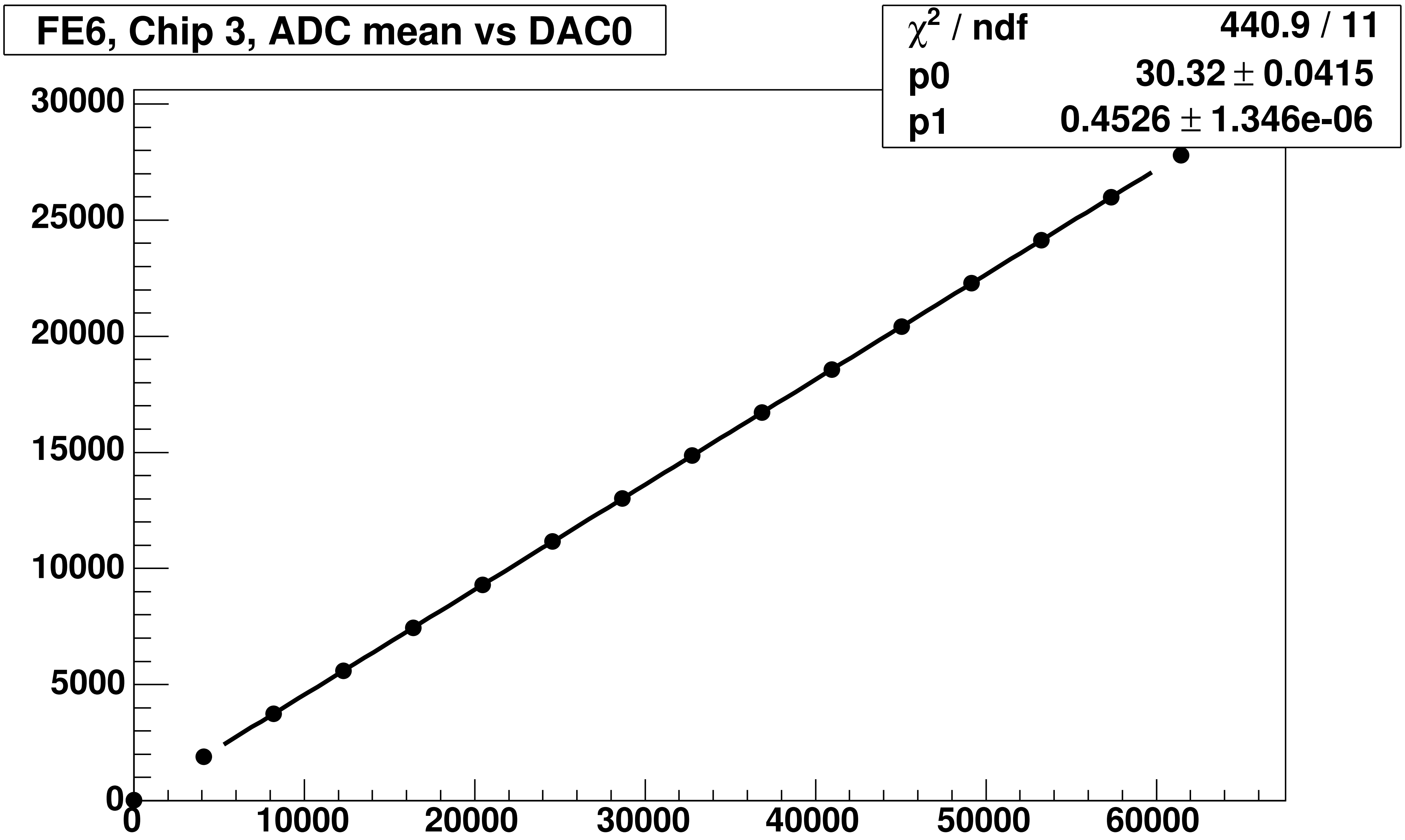

FE6, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



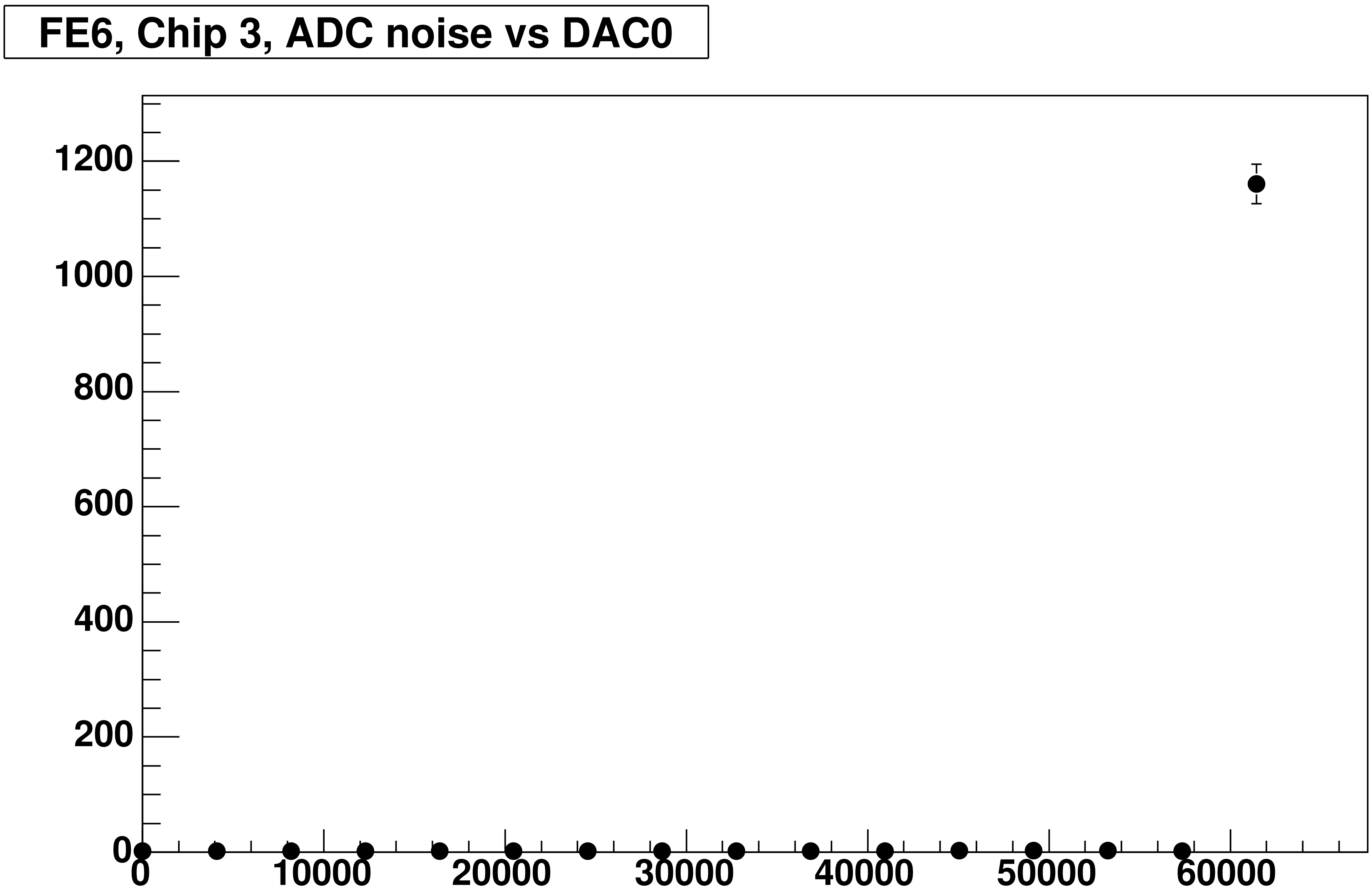
FE6, Chip 2, ADC mean vs DAC1
χ^2 / ndf 50.57 / 11
p0 33.71 ± 0.04019
p1 -1.314e-06 ± 1.113e-06
34
33.9
33.8
33.7
33.6
33.5
33.4
0
10000
20000
30000
40000
50000
60000

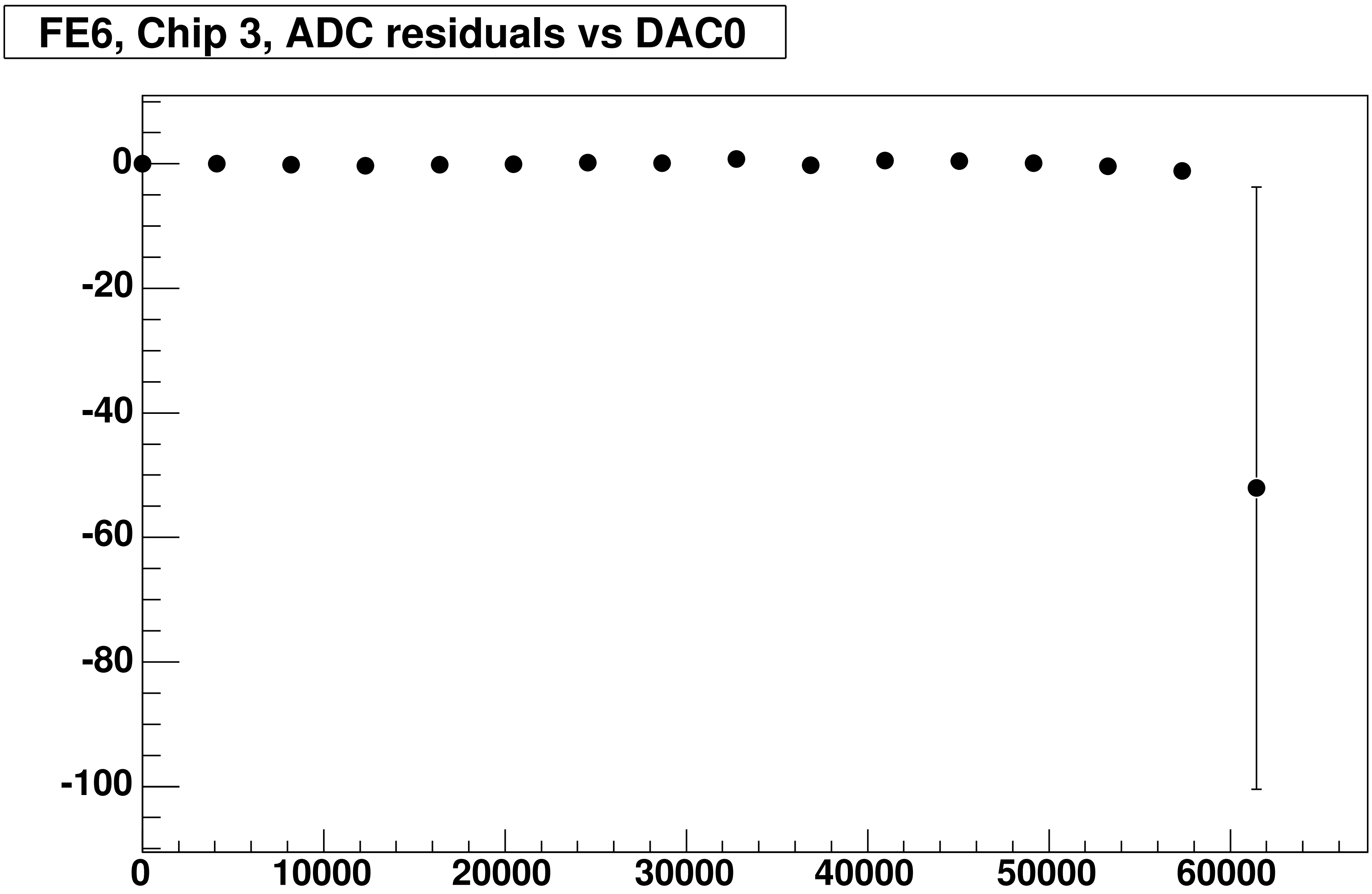

FE6, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

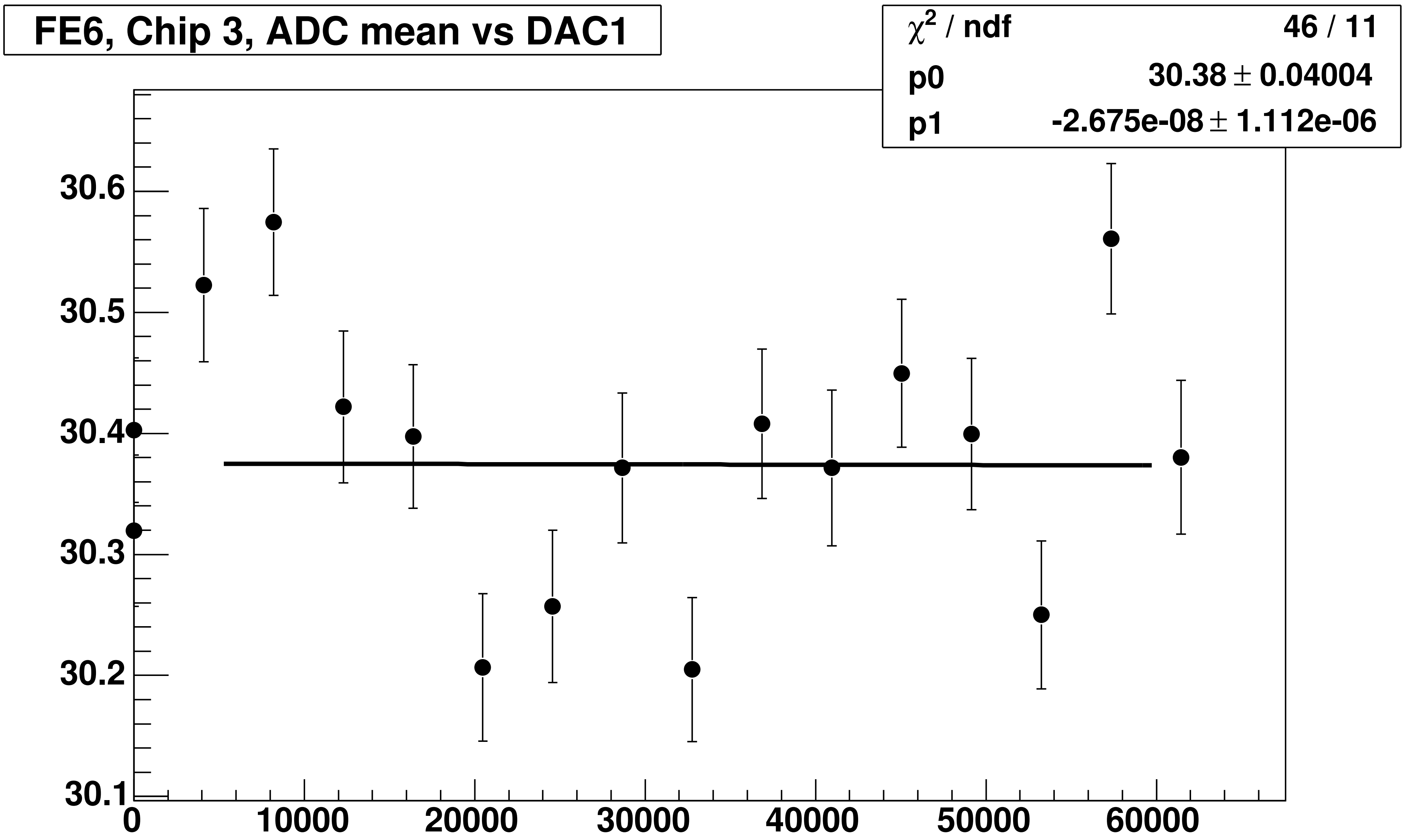

FE6, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



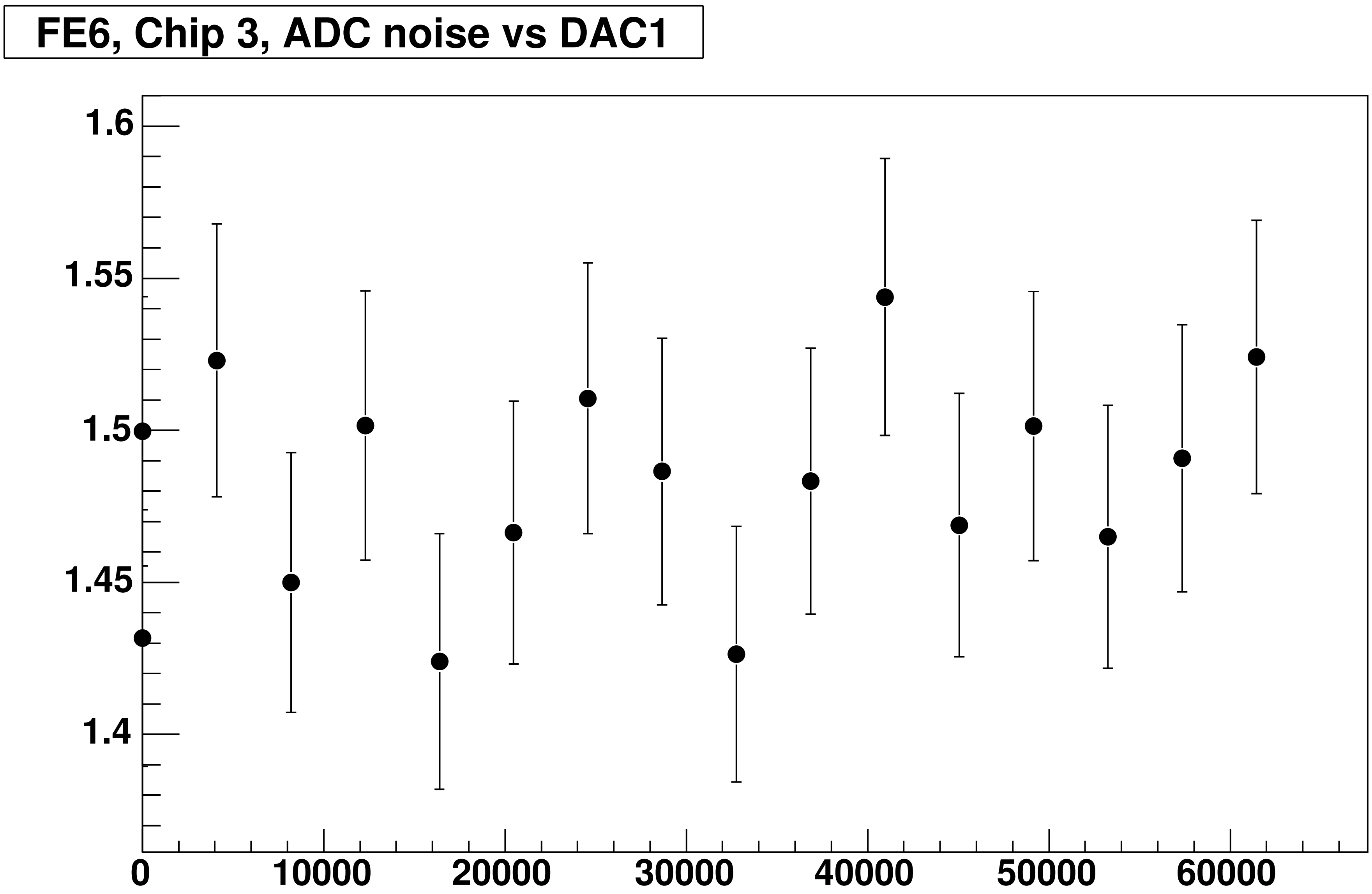
FE6, Chip 3, ADC mean vs DAC0
χ^2 / ndf 440.9 / 11
p0 30.32 ± 0.0415
p1 0.4526 ± 1.346e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

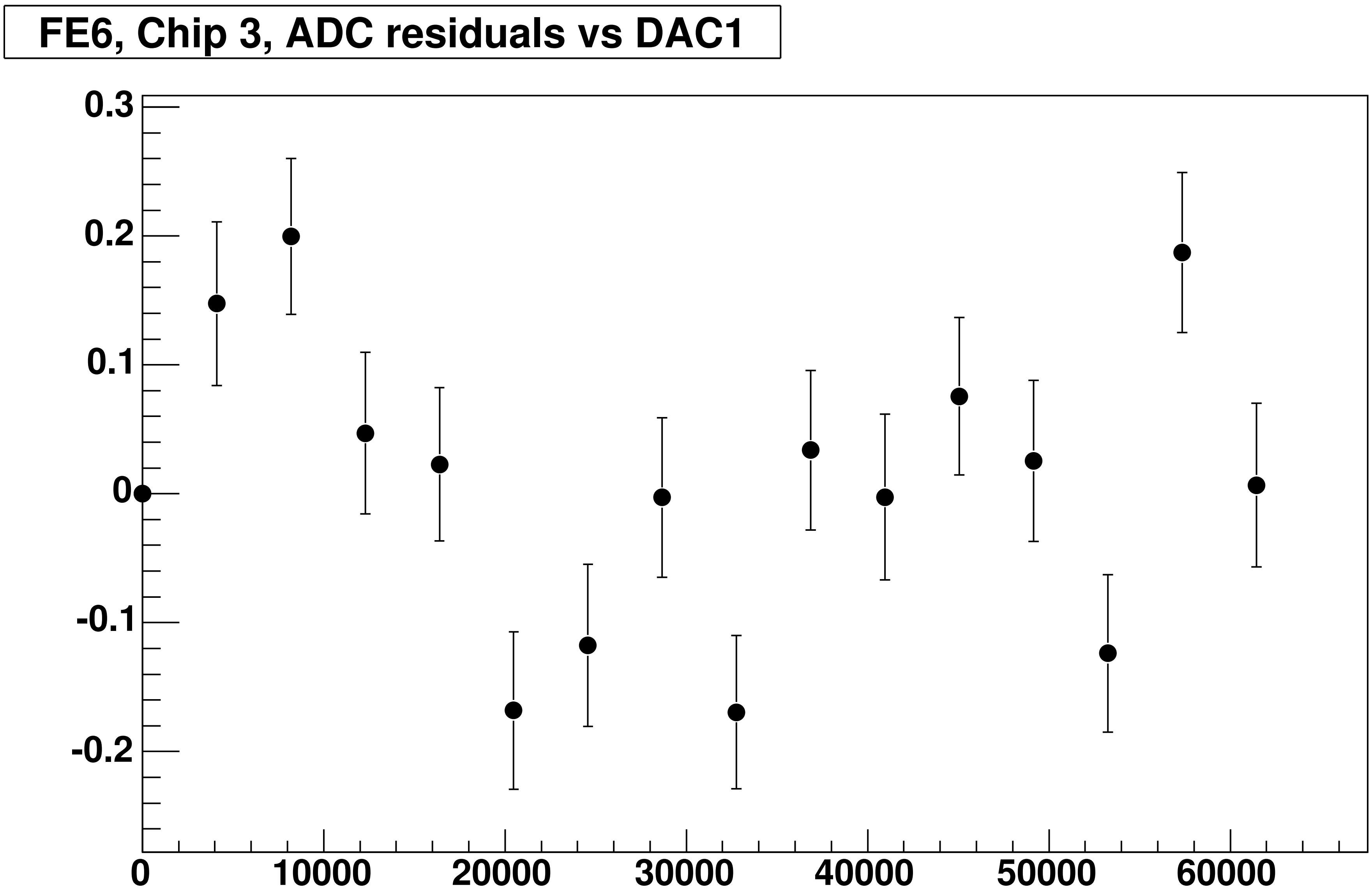

FE6, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

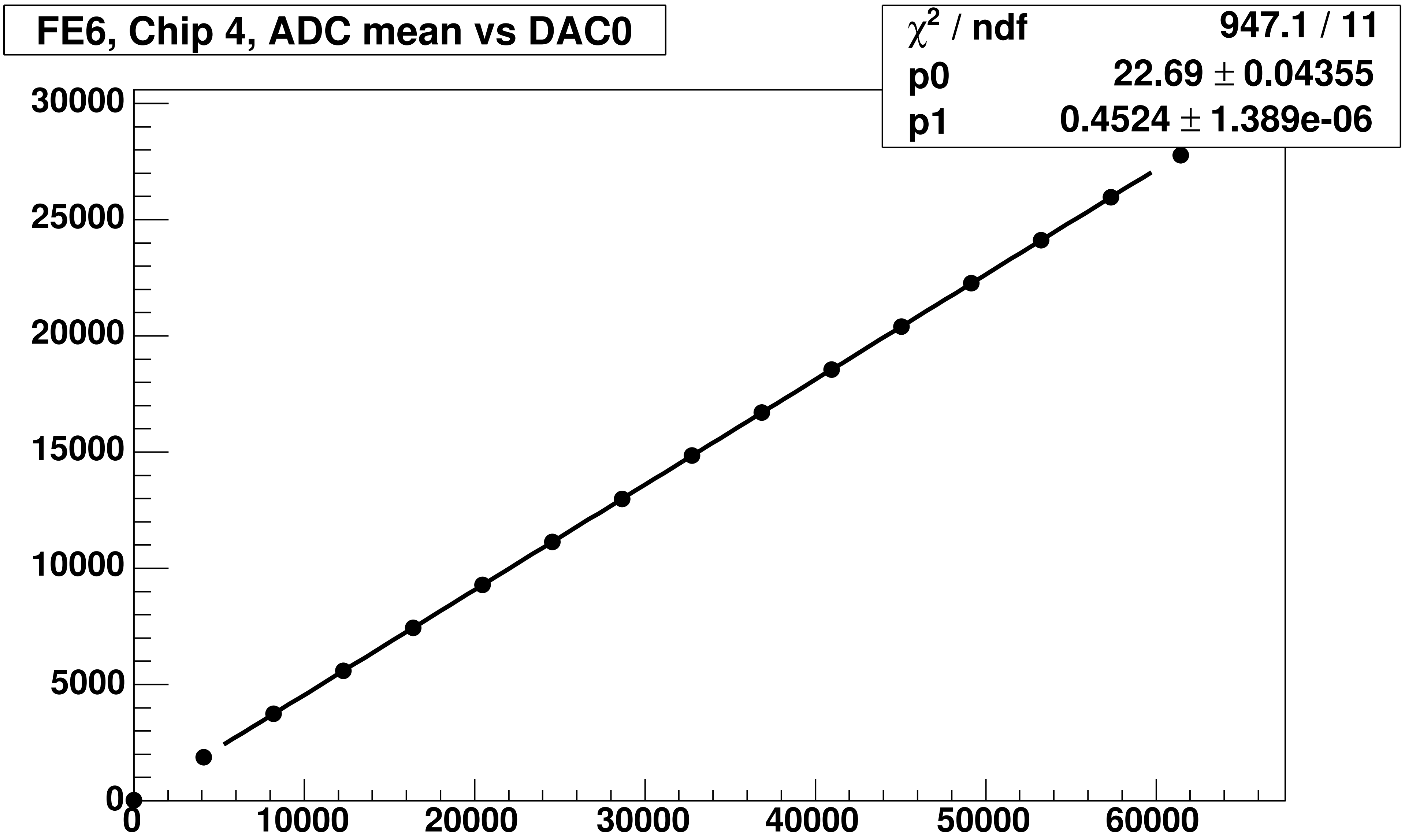

FE6, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



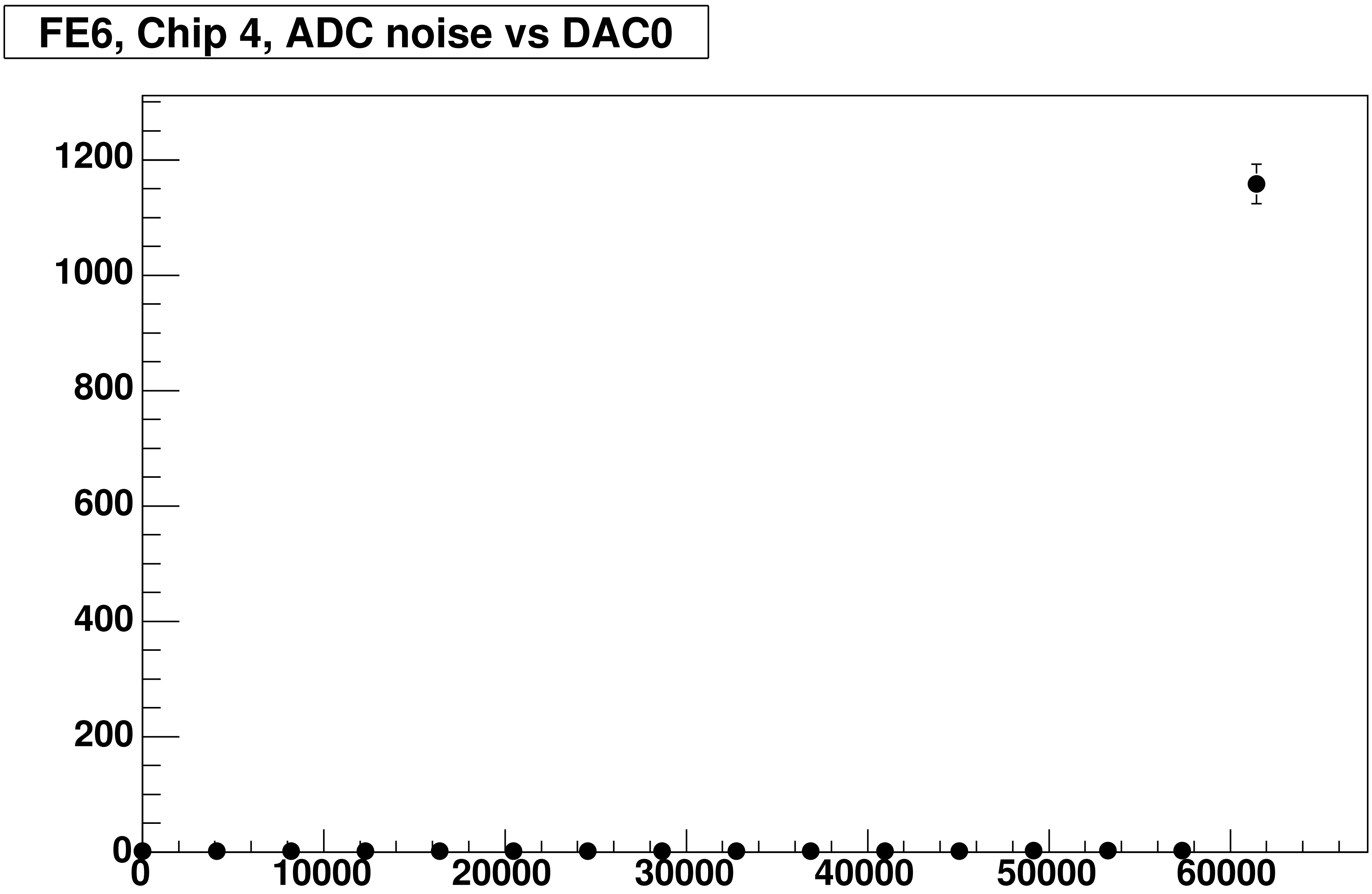
FE6, Chip 3, ADC mean vs DAC1
χ^2 / ndf 46 / 11
p0 30.38 ± 0.04004
p1 -2.675e-08 ± 1.112e-06
30.1
30.2
30.3
30.4
30.5
30.6
0
10000
20000
30000
40000
50000
60000

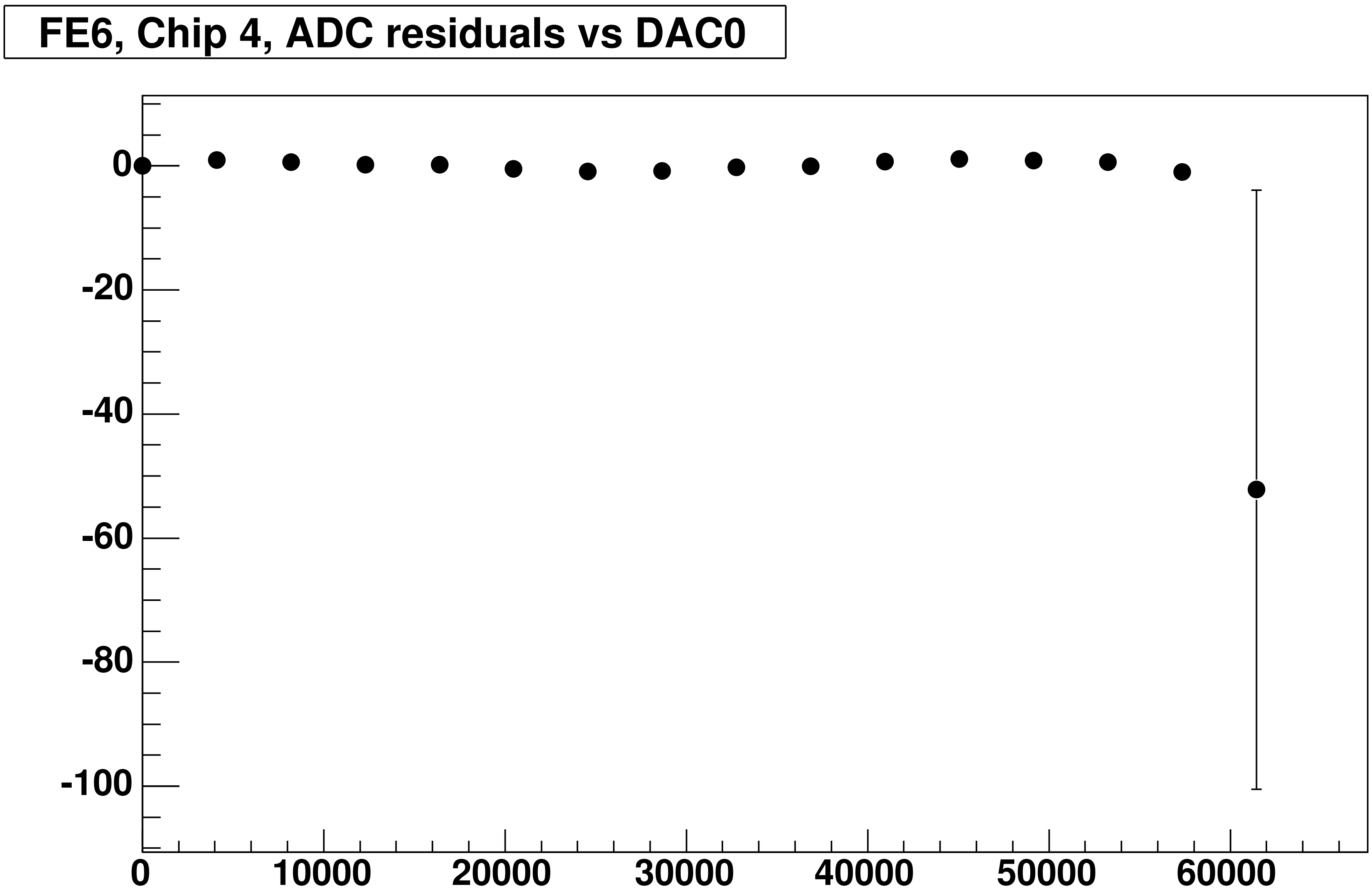

FE6, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


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

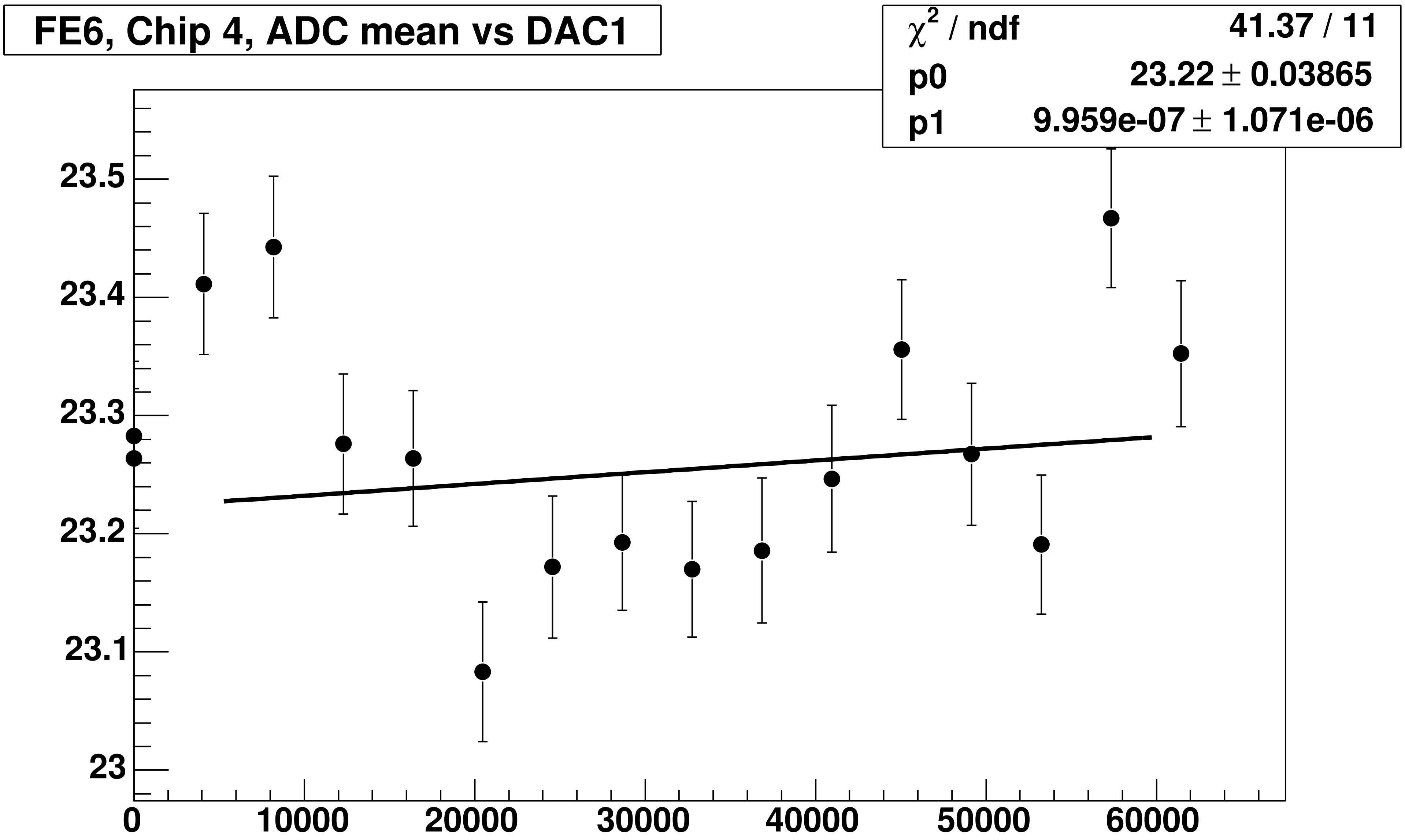


FE6, Chip 4, ADC mean vs DAC0
χ^2 / ndf 947.1 / 11
p0 22.69 $\pm$ 0.04355
p1 0.4524 $\pm$ 1.389e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

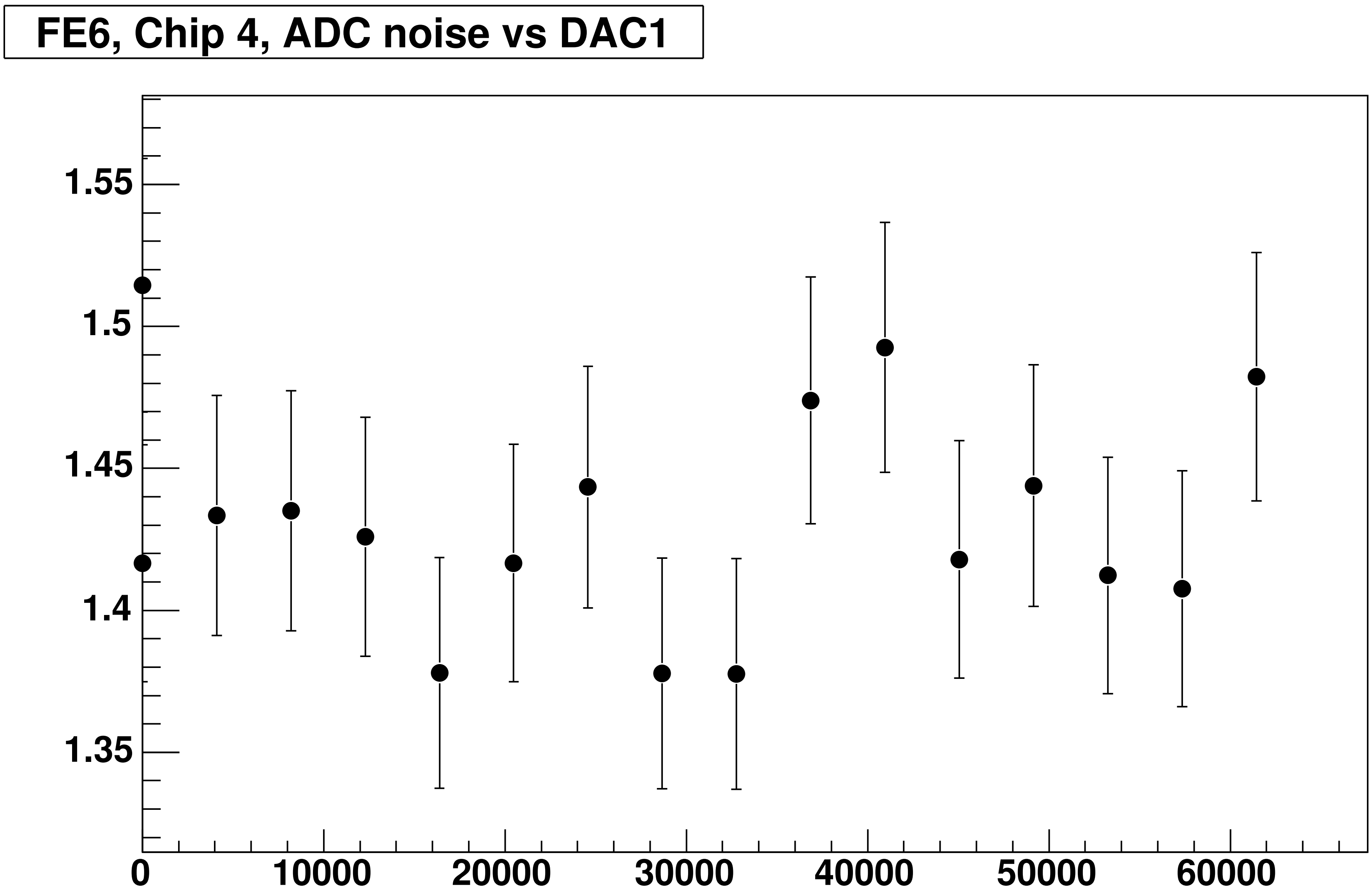

FE6, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

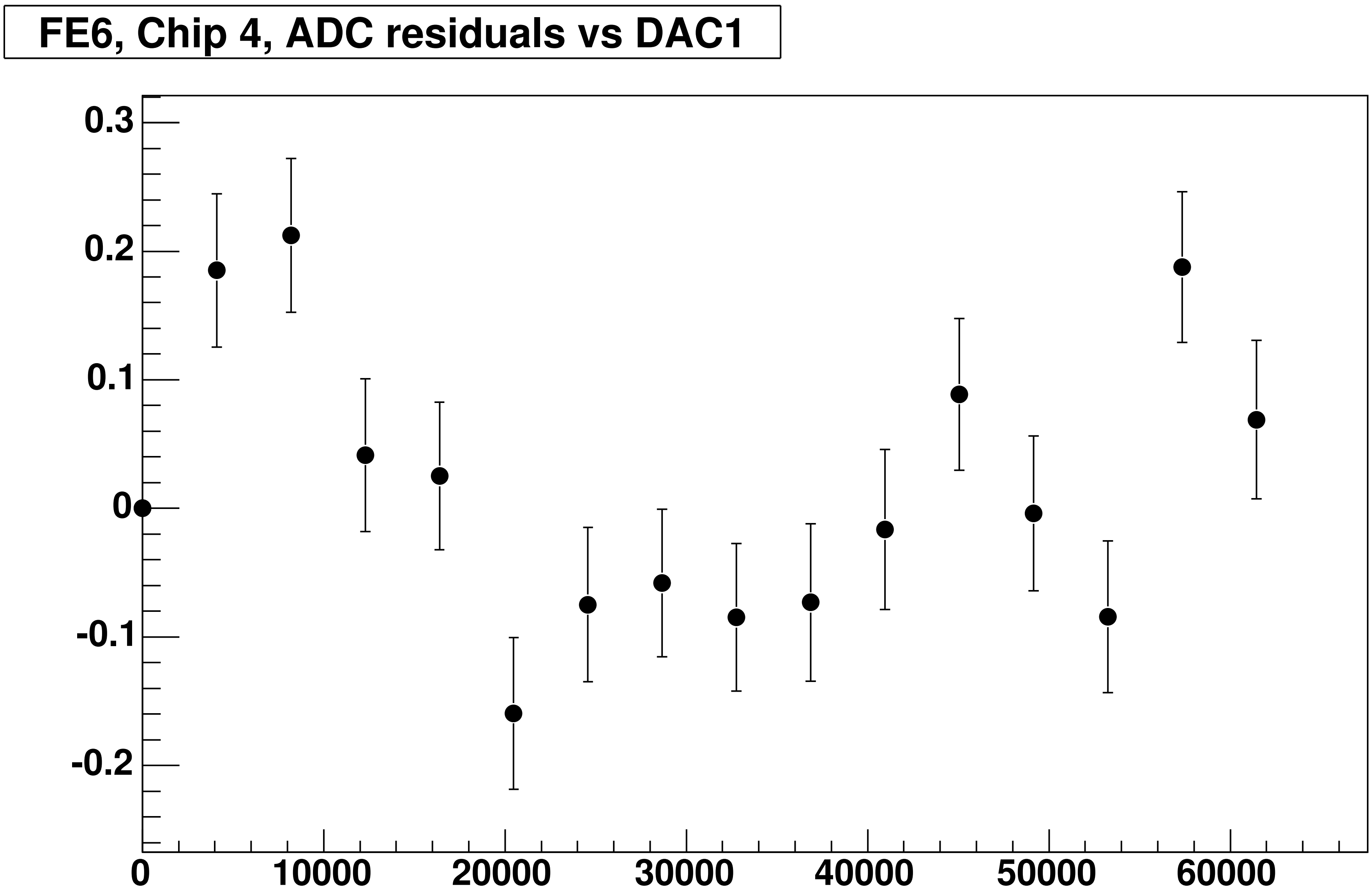


FE6, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

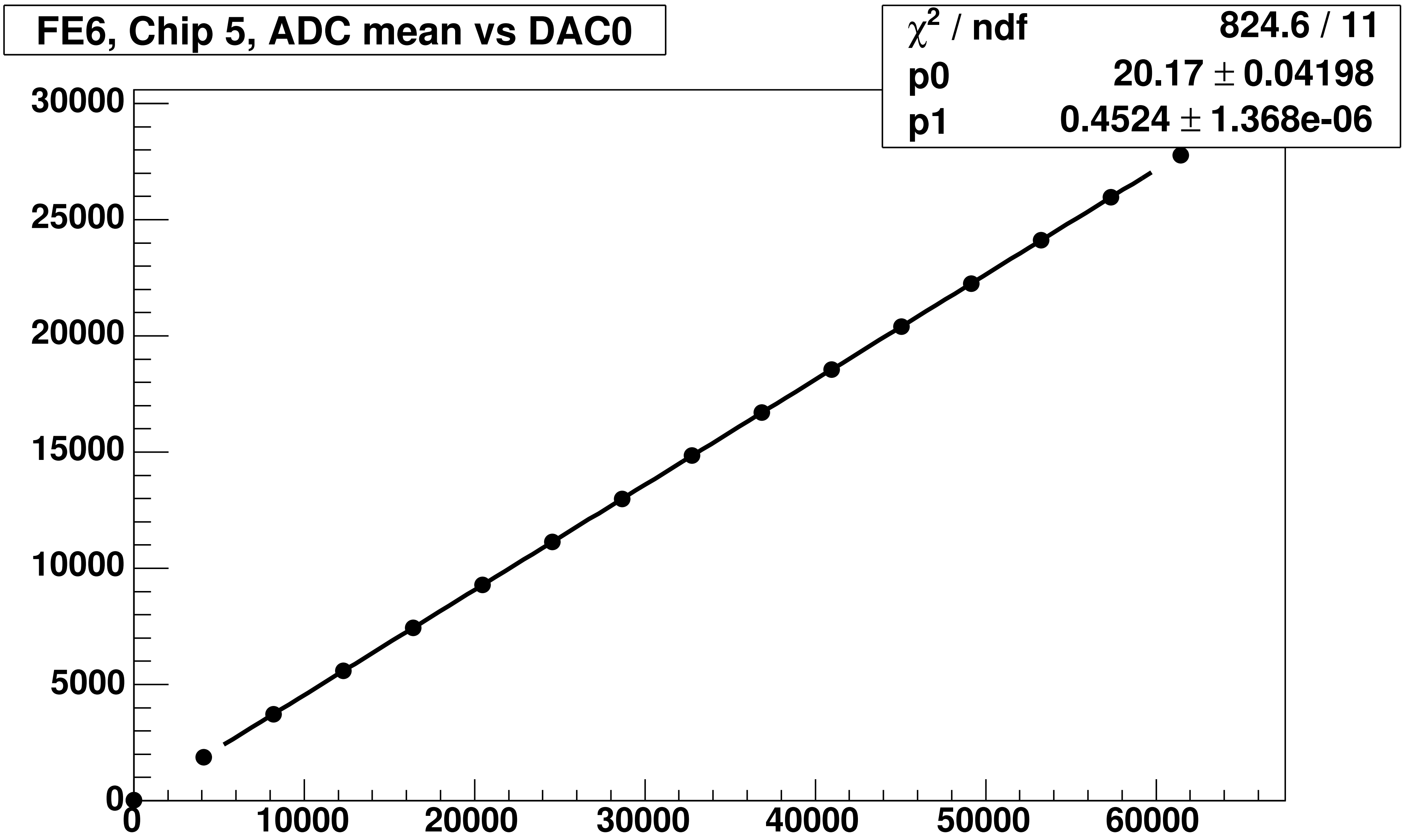


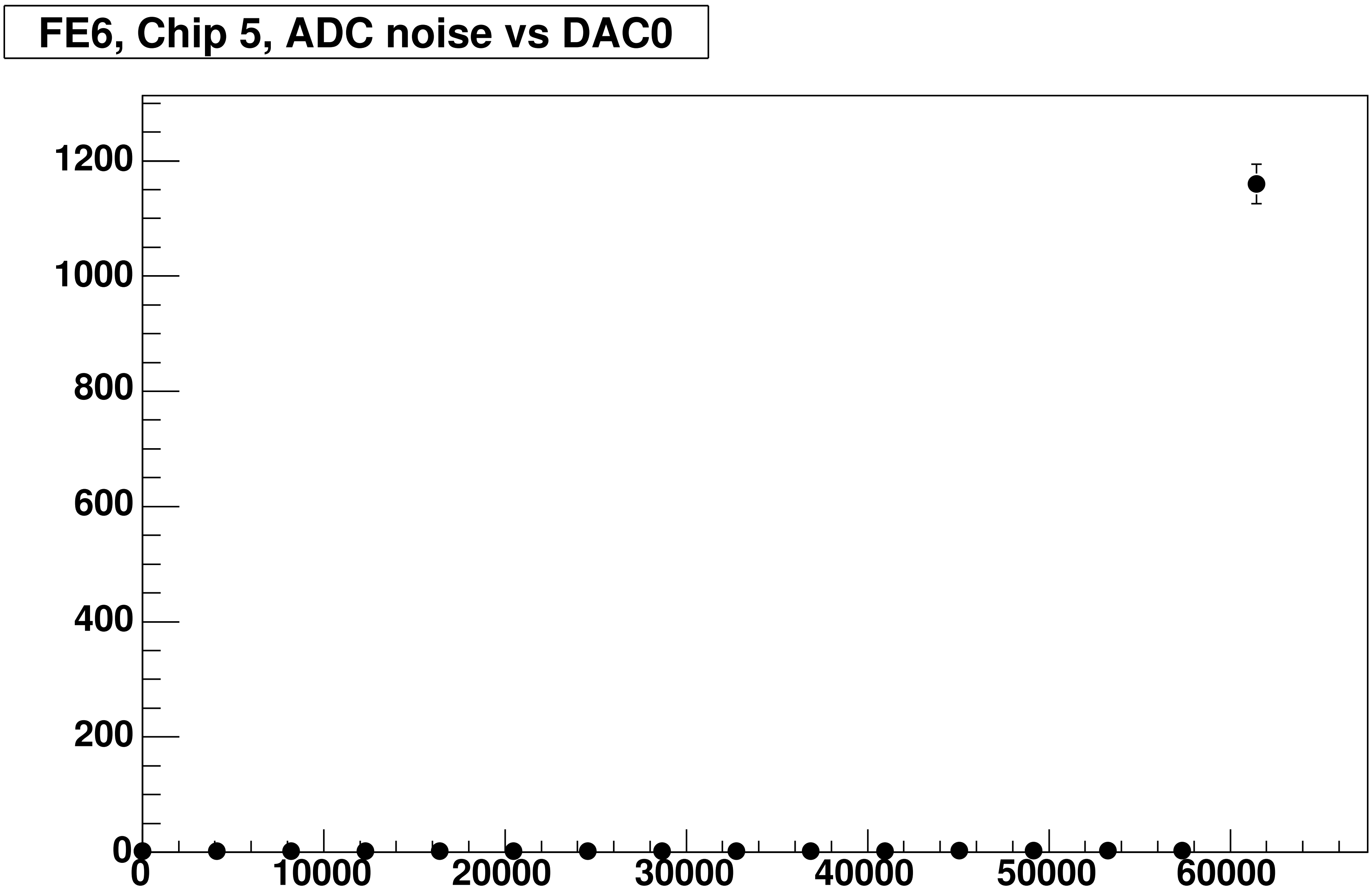
FE6, Chip 4, ADC mean vs DAC1
χ^2 / ndf 41.37 / 11
p0 23.22 ± 0.03865
p1 9.959e-07 ± 1.071e-06
23.5
23.4
23.3
23.2
23.1
23
0
10000
20000
30000
40000
50000
60000

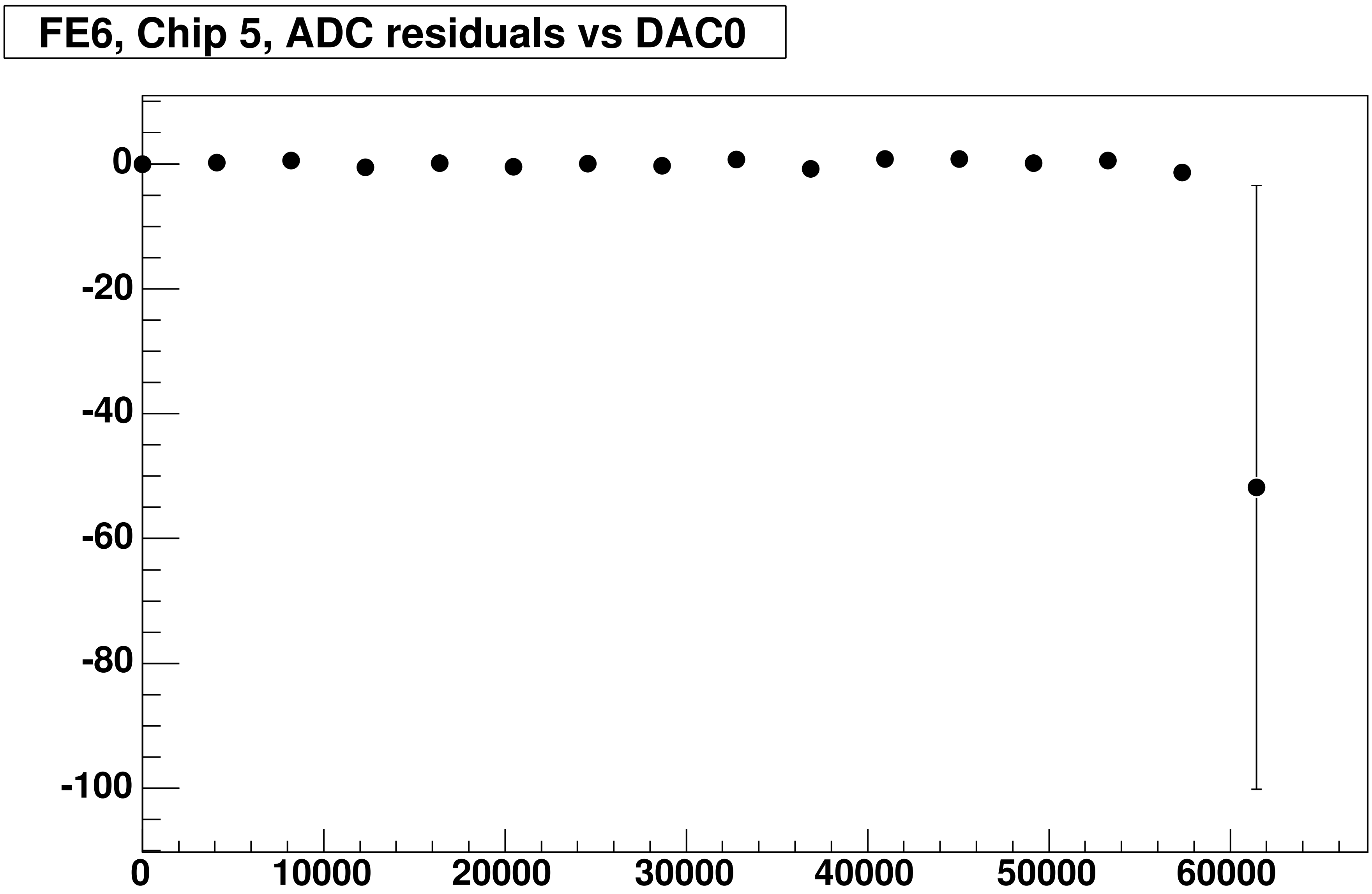

FE6, Chip 4, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

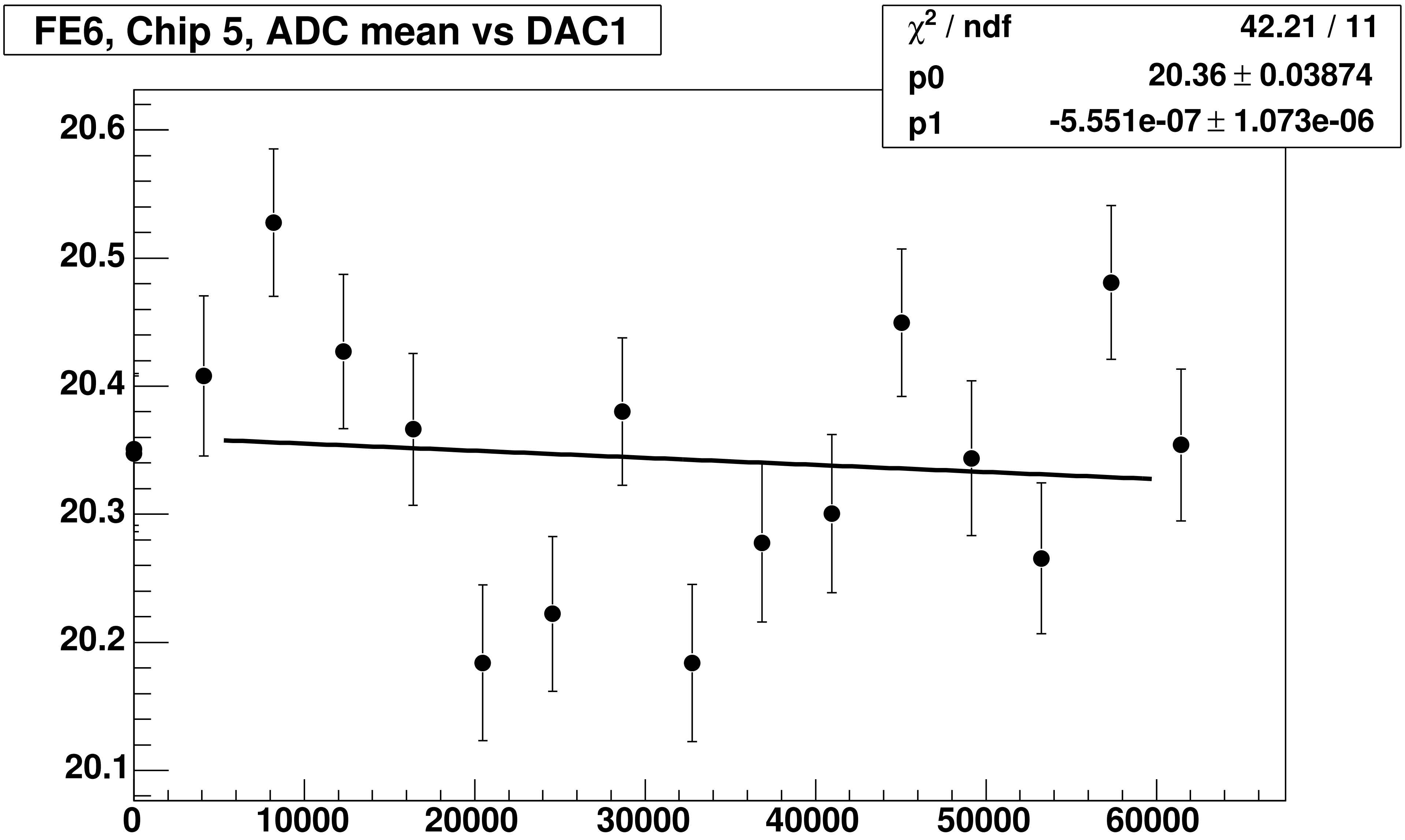


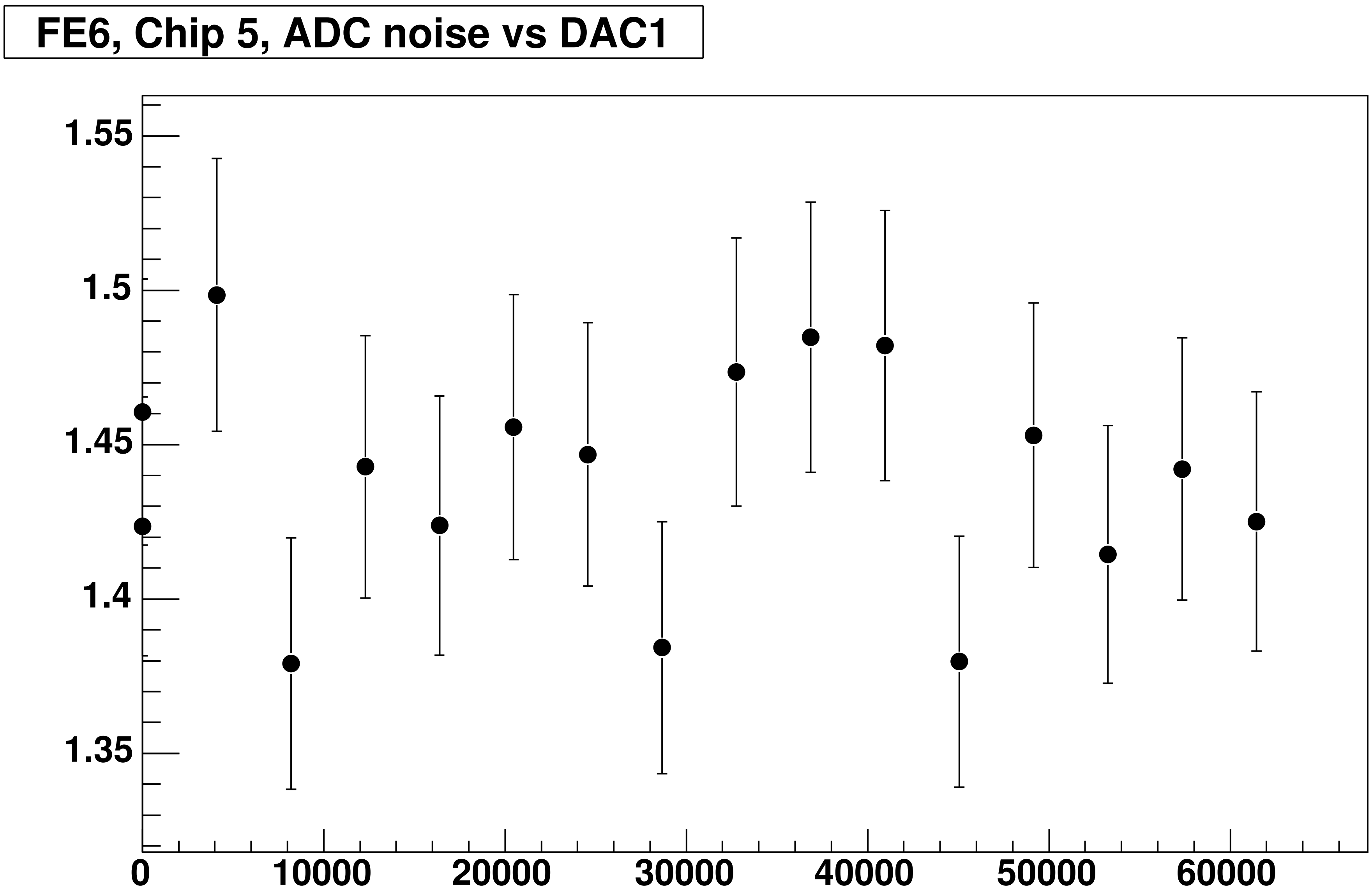
FE6, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE6, Chip 5, ADC mean vs DAC0
χ^2 / ndf 824.6 / 11
p0 20.17 ± 0.04198
p1 0.4524 ± 1.368e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

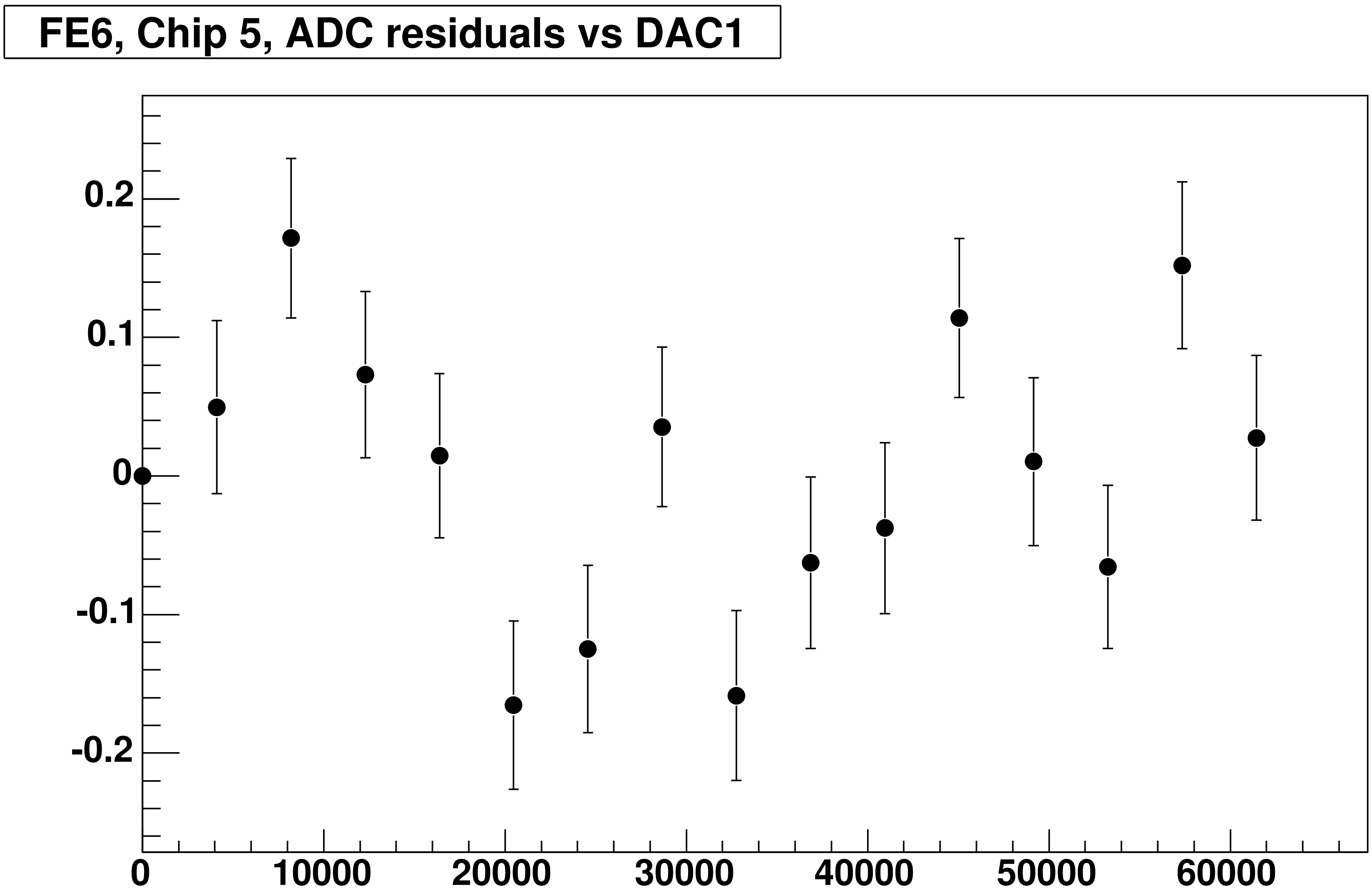

FE6, Chip 5, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000


FE6, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

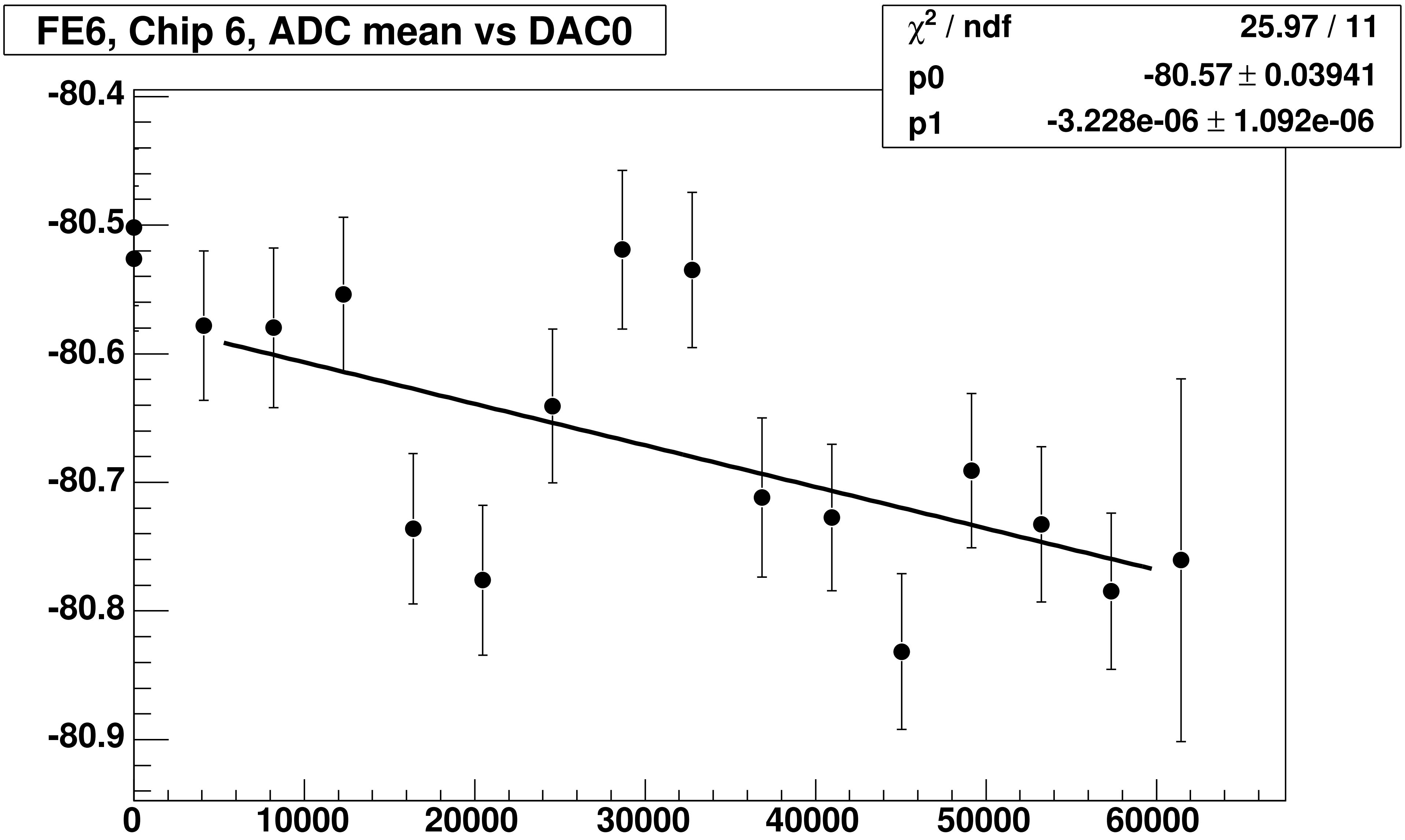

FE6, Chip 5, ADC mean vs DAC1
χ^2 / ndf 42.21 / 11
p0 20.36 ± 0.03874
p1 -5.551e-07 ± 1.073e-06
20.6
20.5
20.4
20.3
20.2
20.1
0
10000
20000
30000
40000
50000
60000



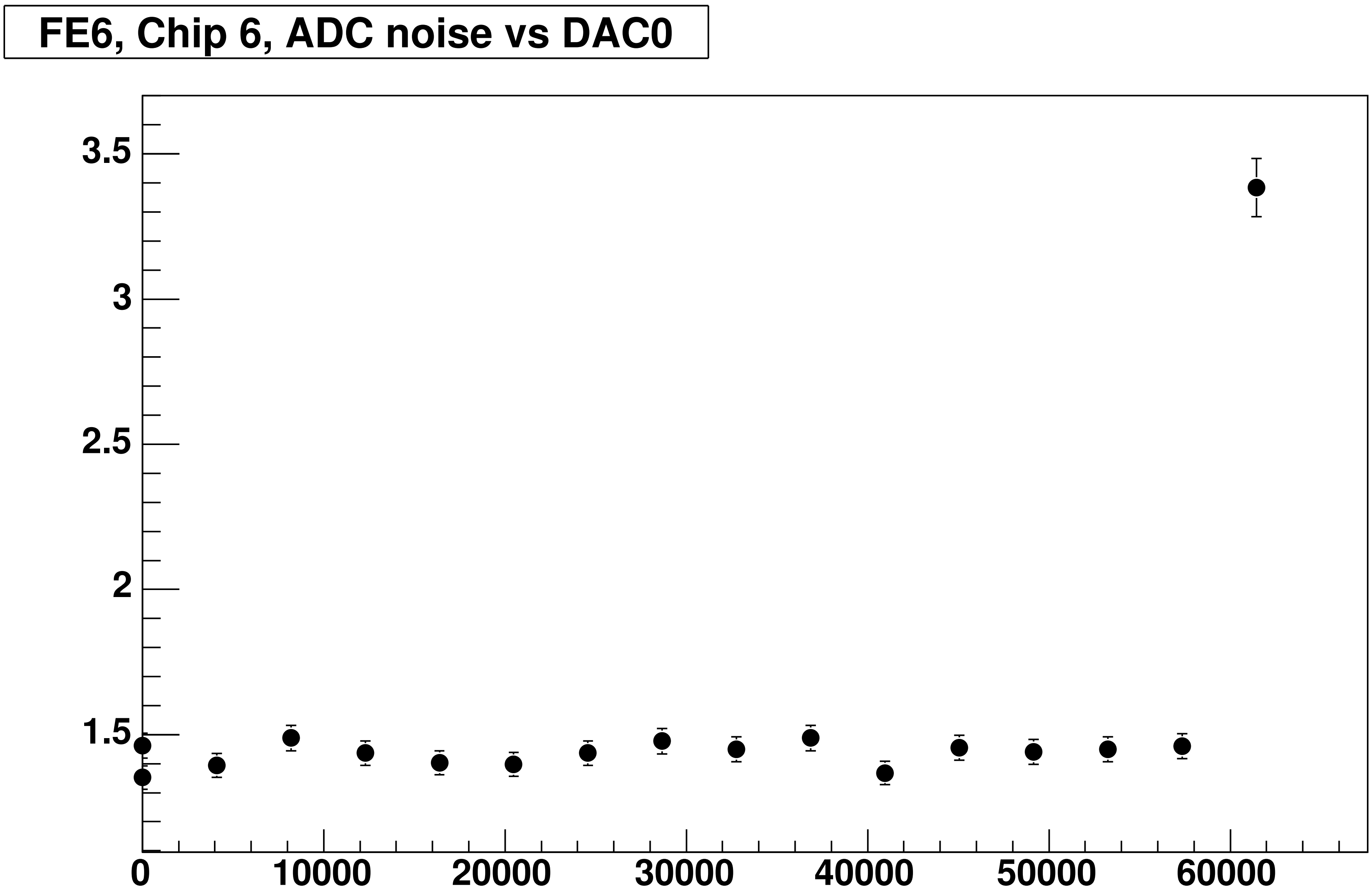
FE6, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



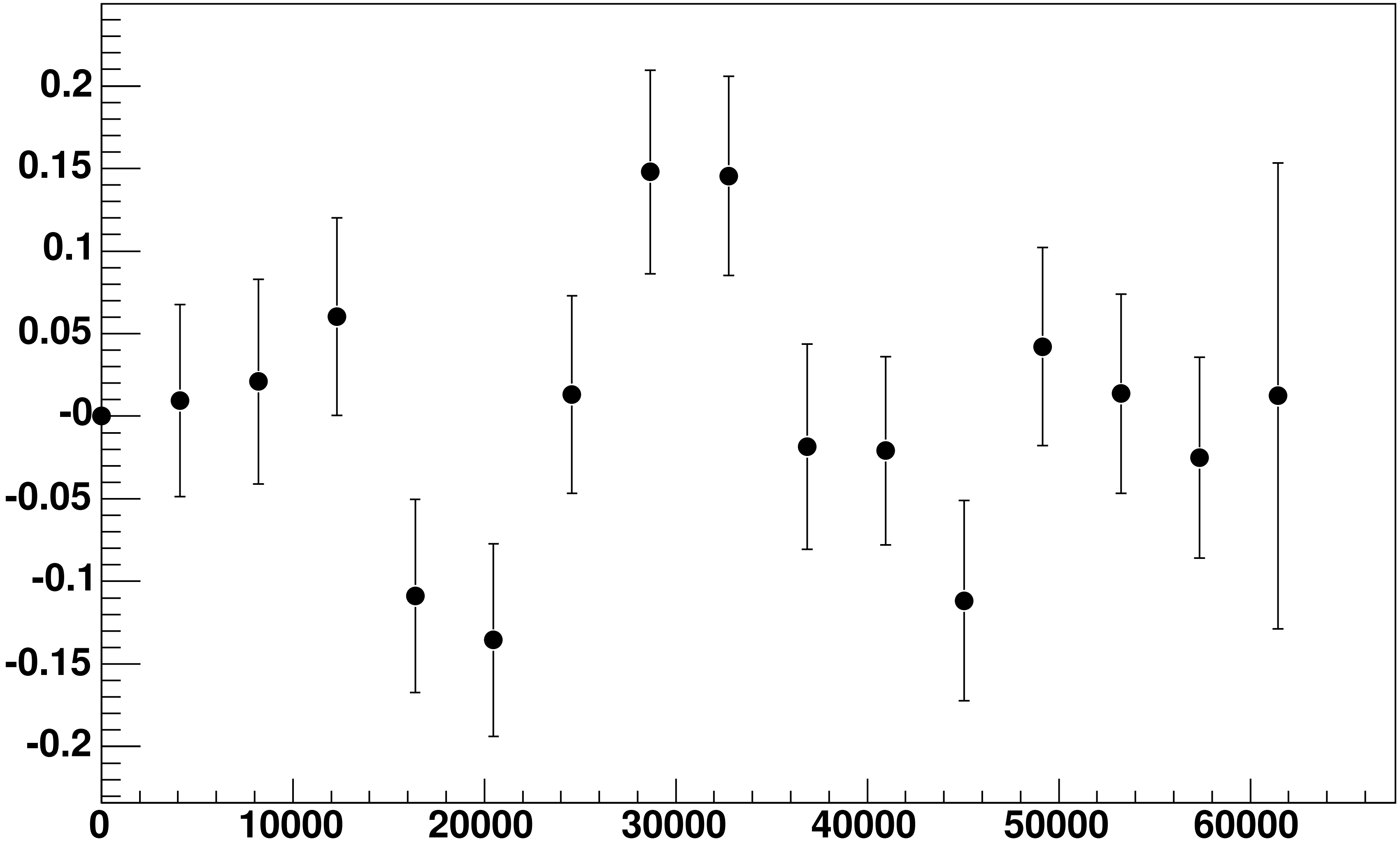
FE6, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

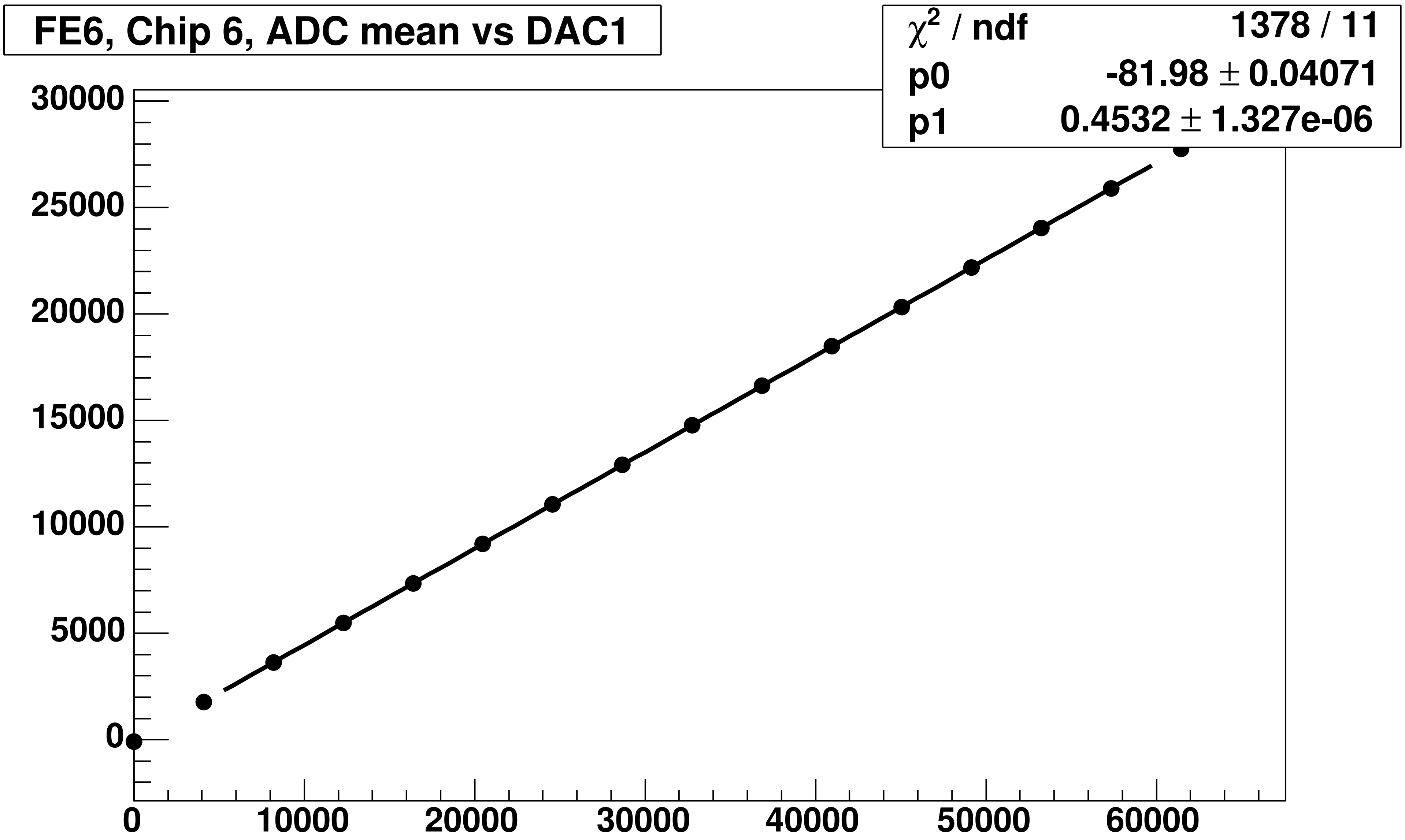


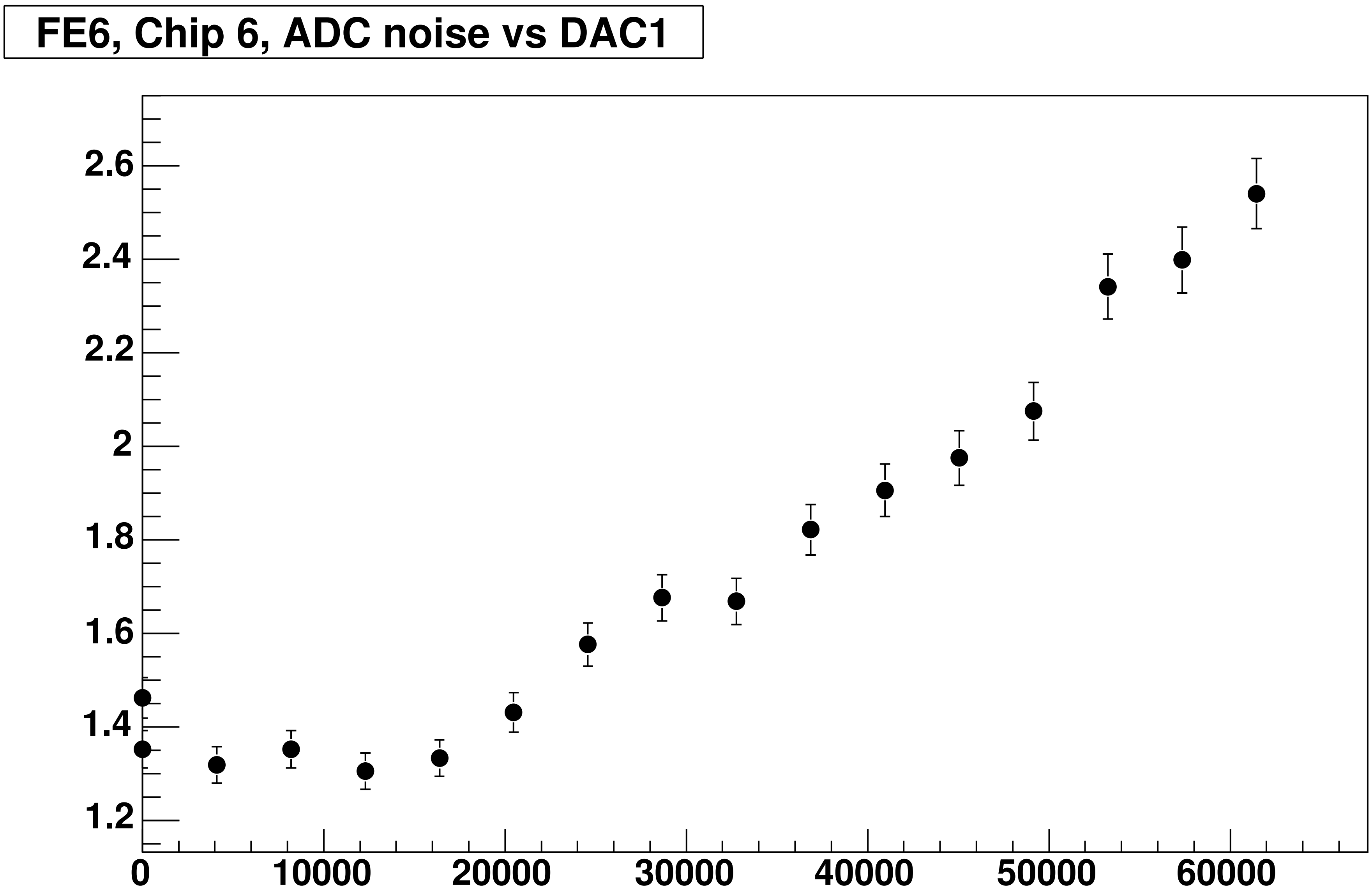
FE6, Chip 6, ADC mean vs DAC0
χ^2 / ndf 25.97 / 11
p0 -80.57 ± 0.03941
p1 -3.228e-06 ± 1.092e-06
-80.4
-80.5
-80.6
-80.7
-80.8
-80.9
0
10000
20000
30000
40000
50000
60000


FE6, Chip 6, ADC noise vs DAC0
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

FE6, Chip 6, ADC residuals vs DAC0

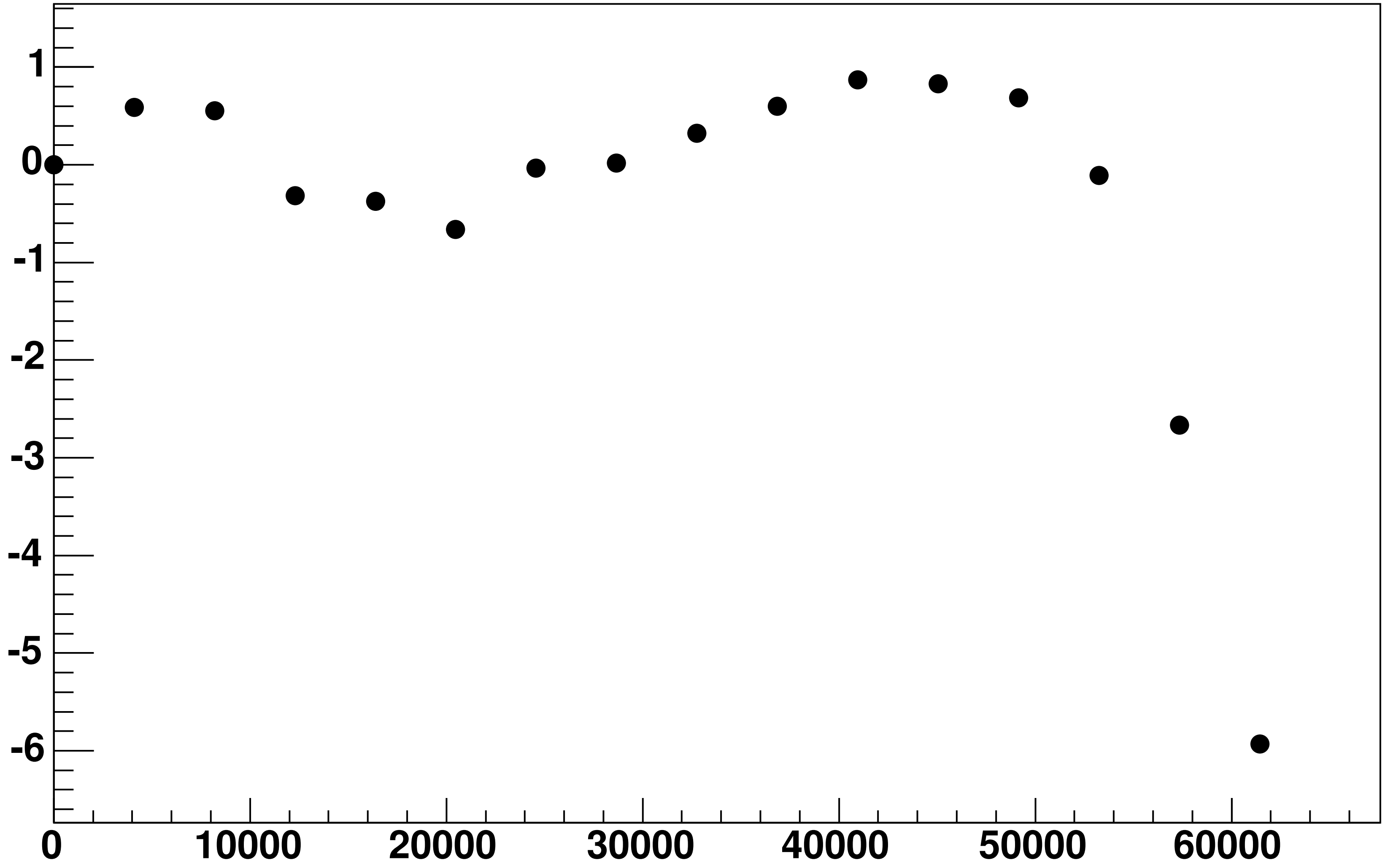


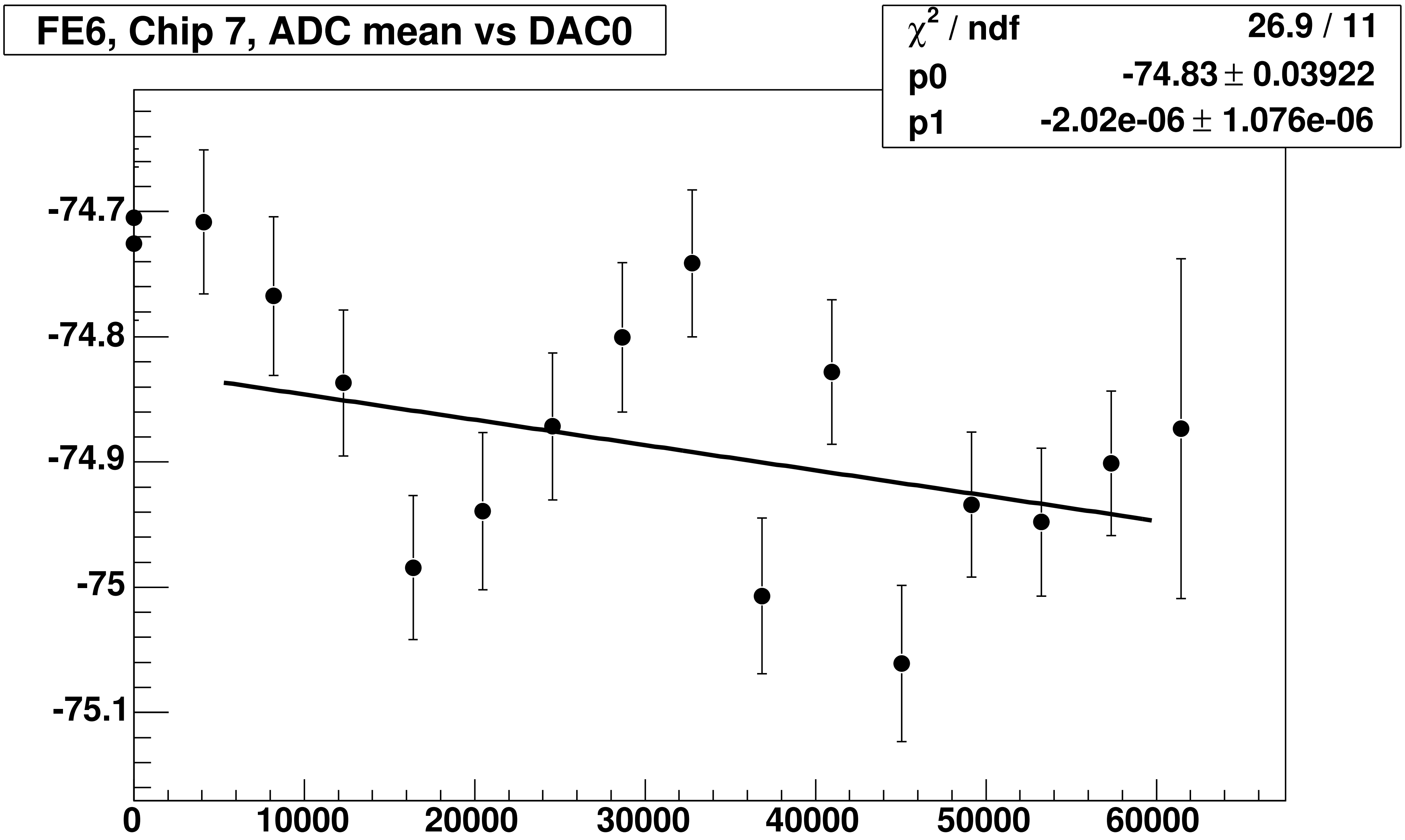

FE6, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1378 / 11
p0 -81.98 ± 0.04071
p1 0.4532 ± 1.327e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

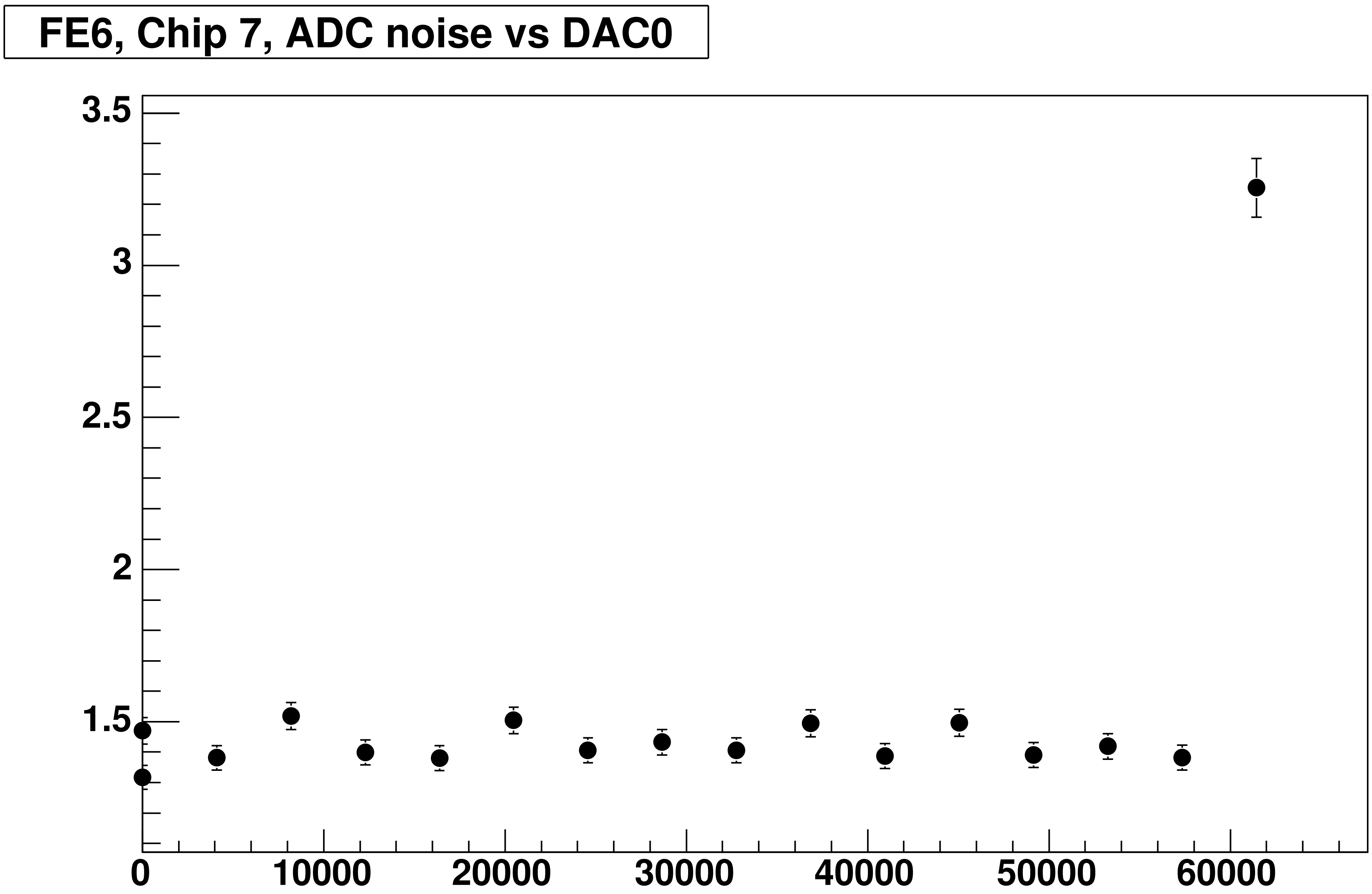


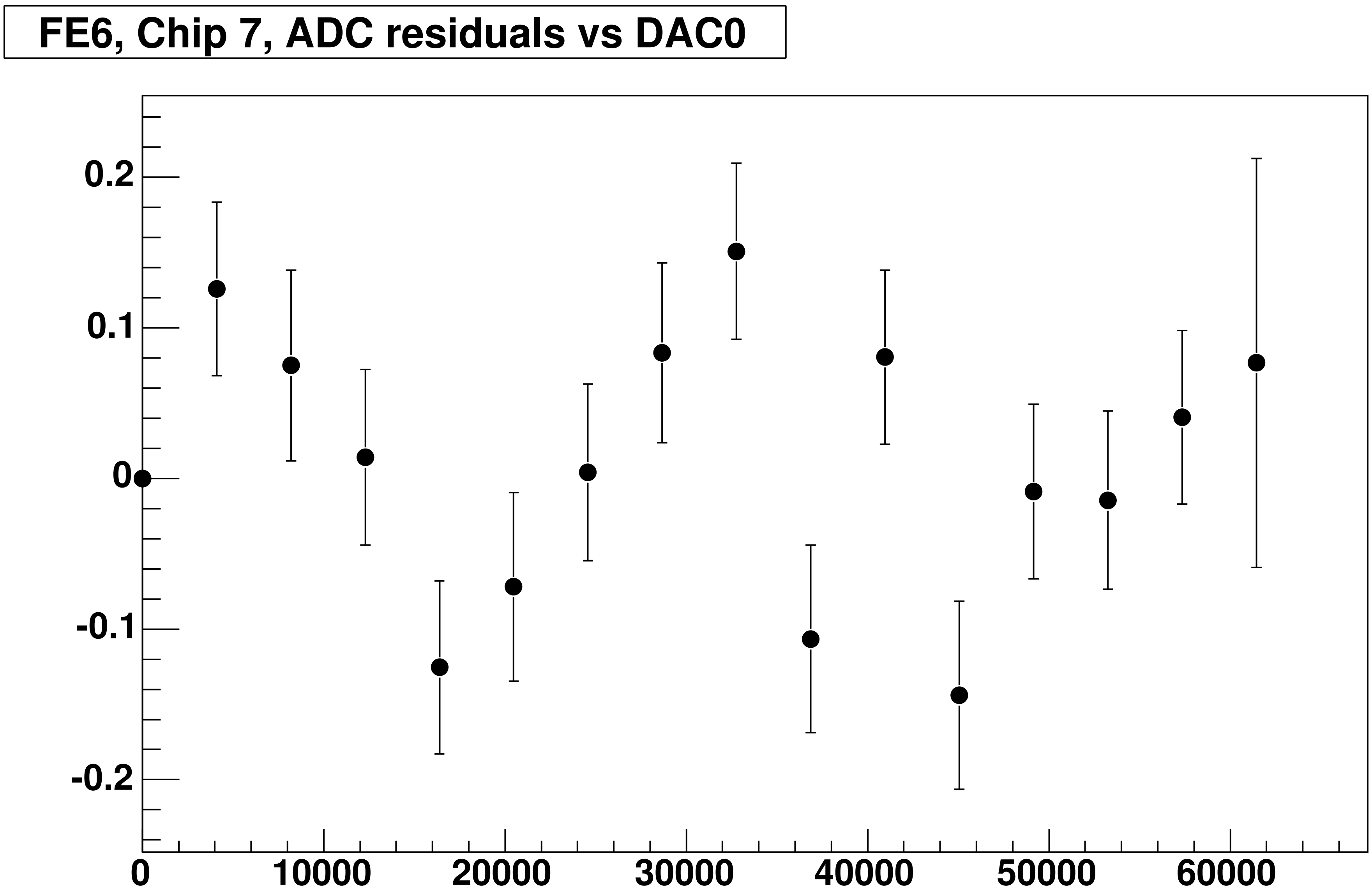
FE6, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

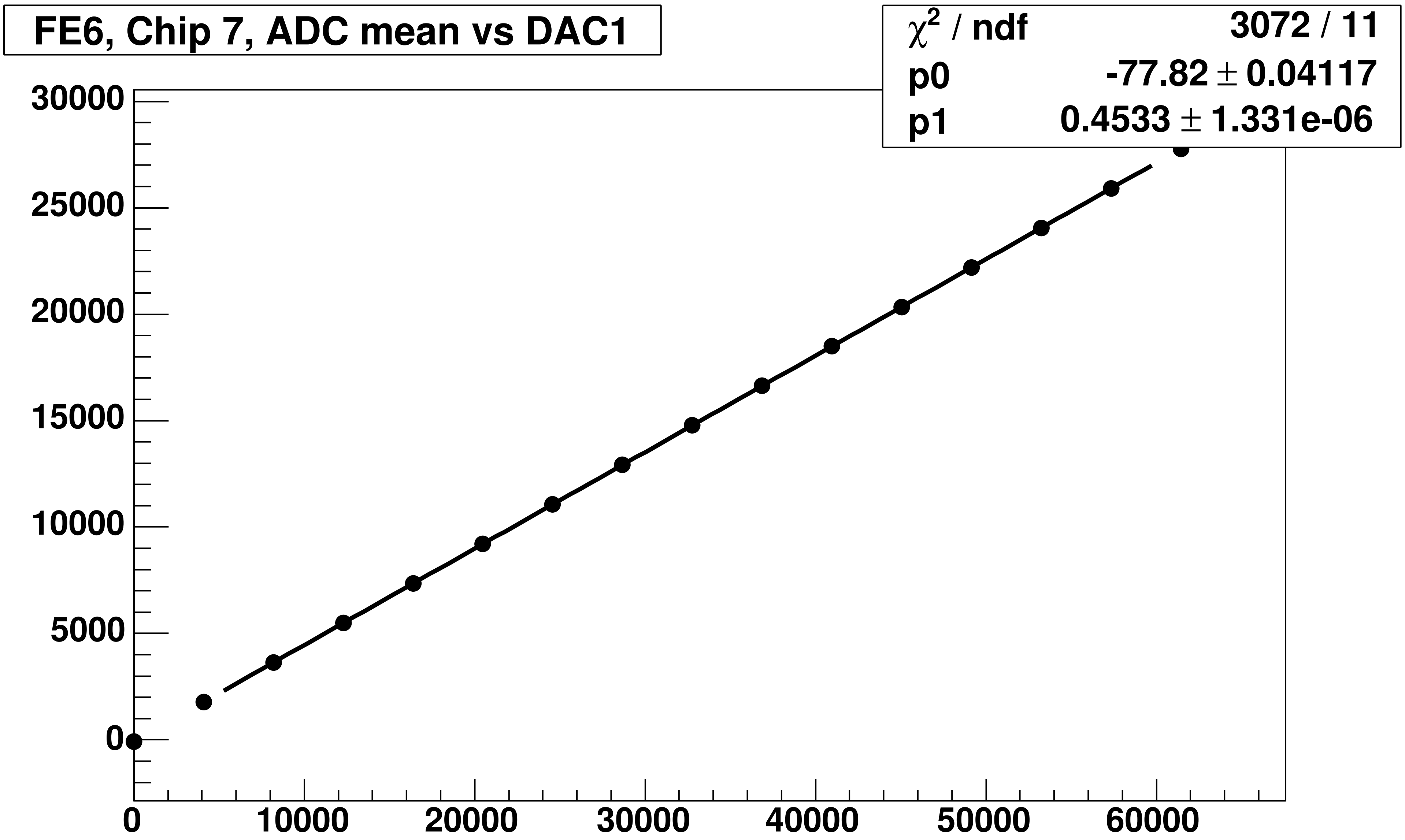
FE6, Chip 6, ADC residuals vs DAC1

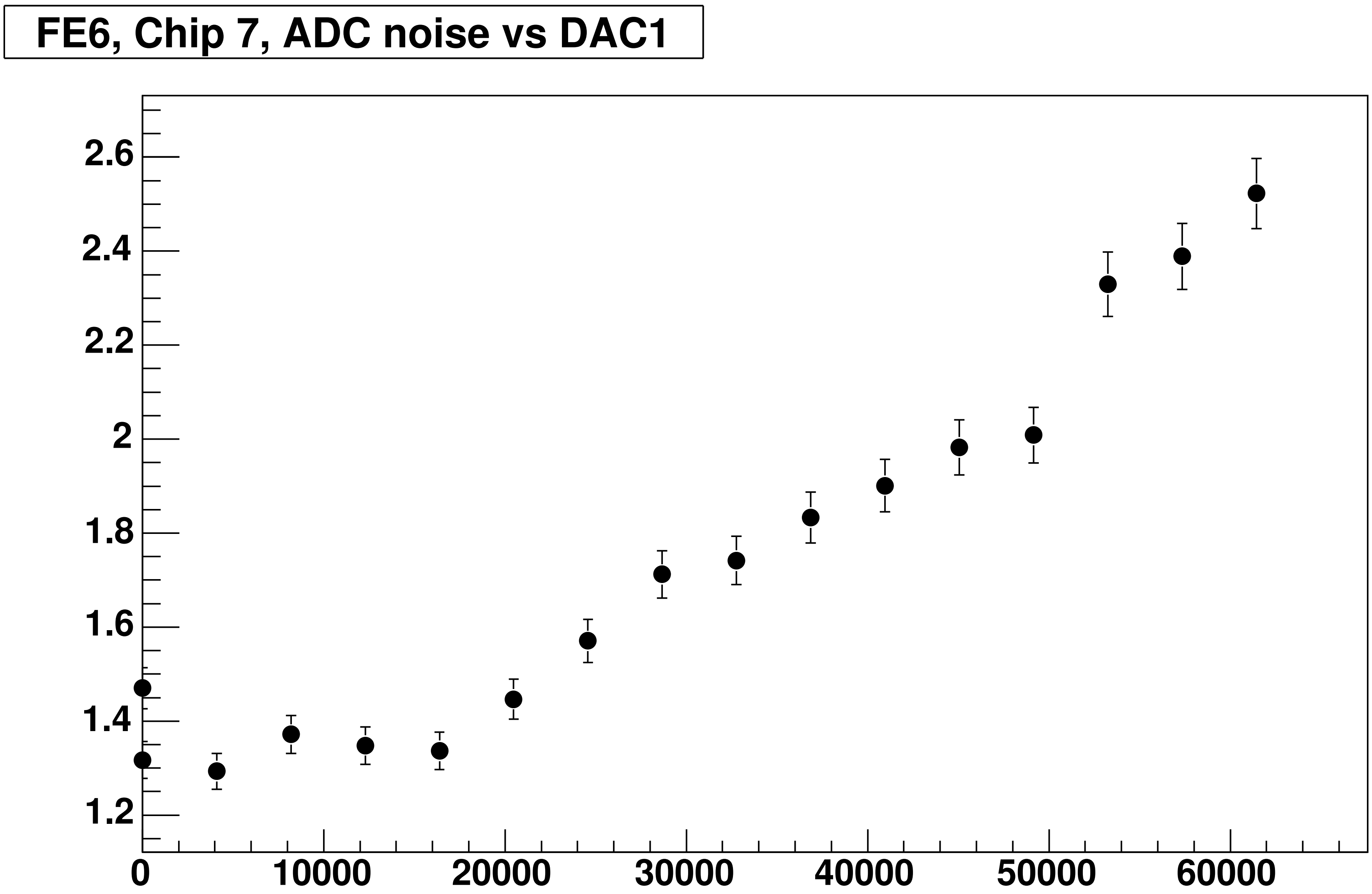


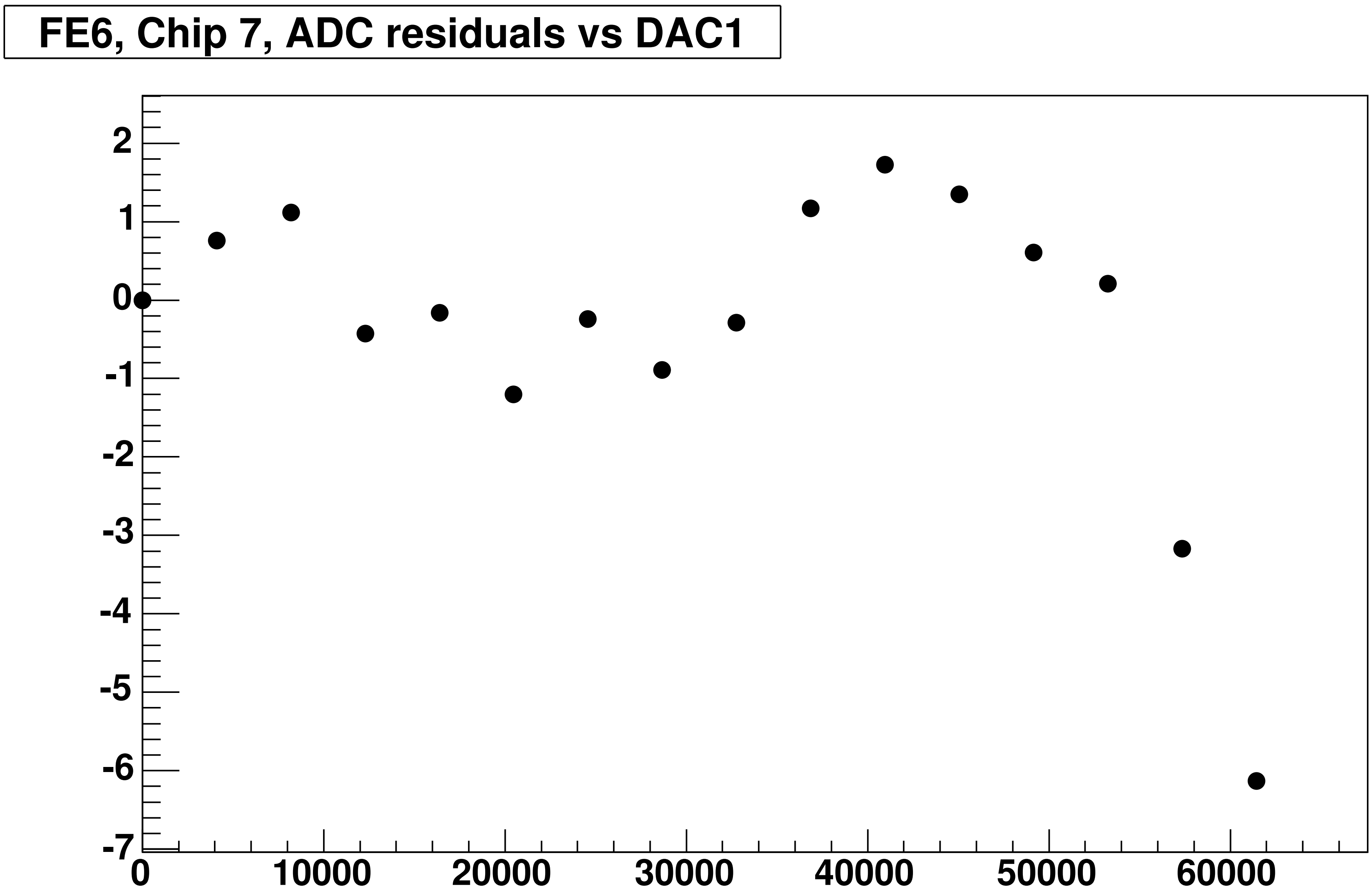

FE6, Chip 7, ADC mean vs DAC0
χ^2 / ndf 26.9 / 11
p0 -74.83 ± 0.03922
p1 -2.02e-06 ± 1.076e-06
-74.7
-74.8
-74.9
-75
-75.1
0
10000
20000
30000
40000
50000
60000

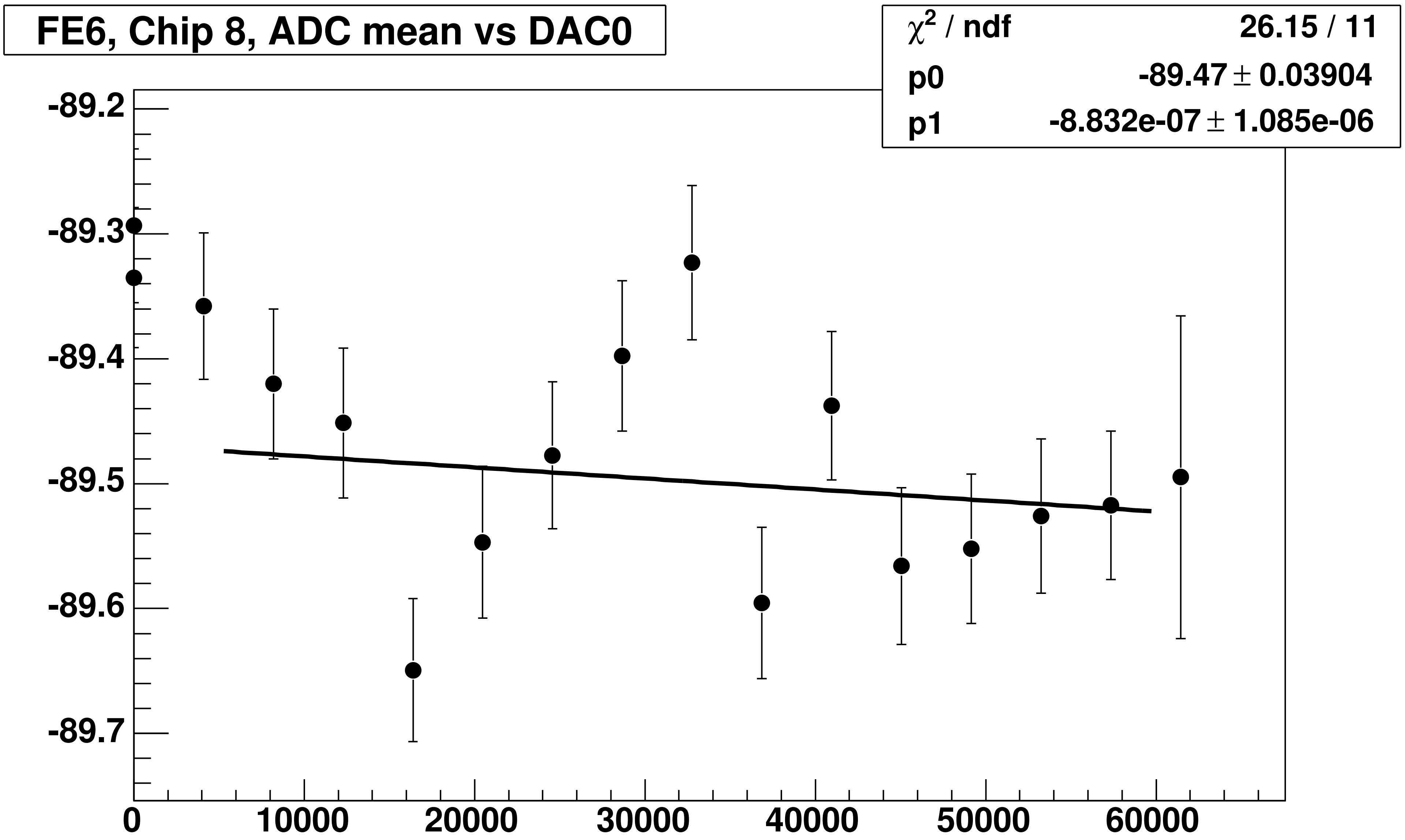

FE6, Chip 7, ADC noise vs DAC0
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000


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

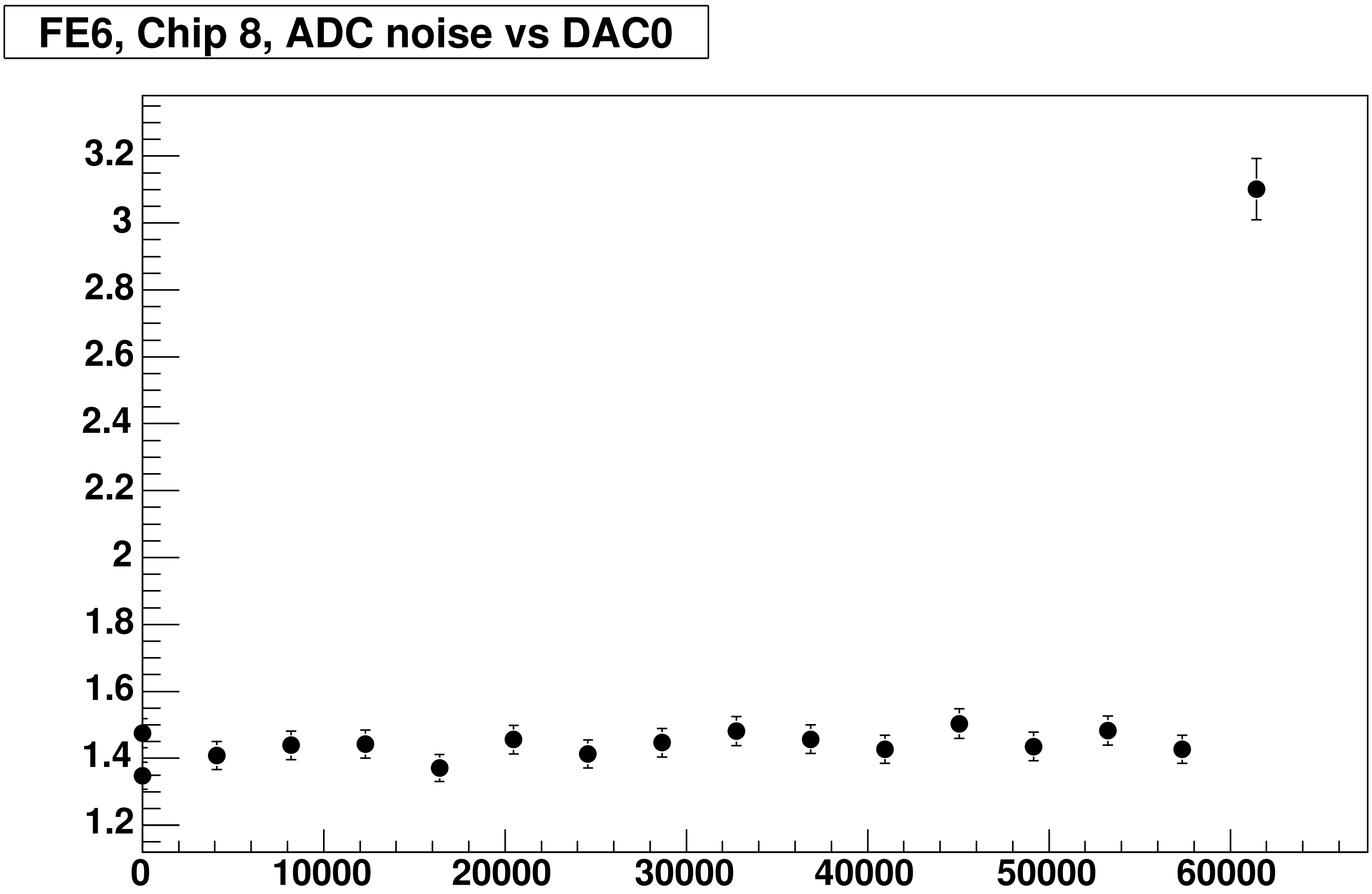

FE6, Chip 7, ADC mean vs DAC1
χ^2 / ndf 3072 / 11
p0 -77.82 ± 0.04117
p1 0.4533 ± 1.331e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

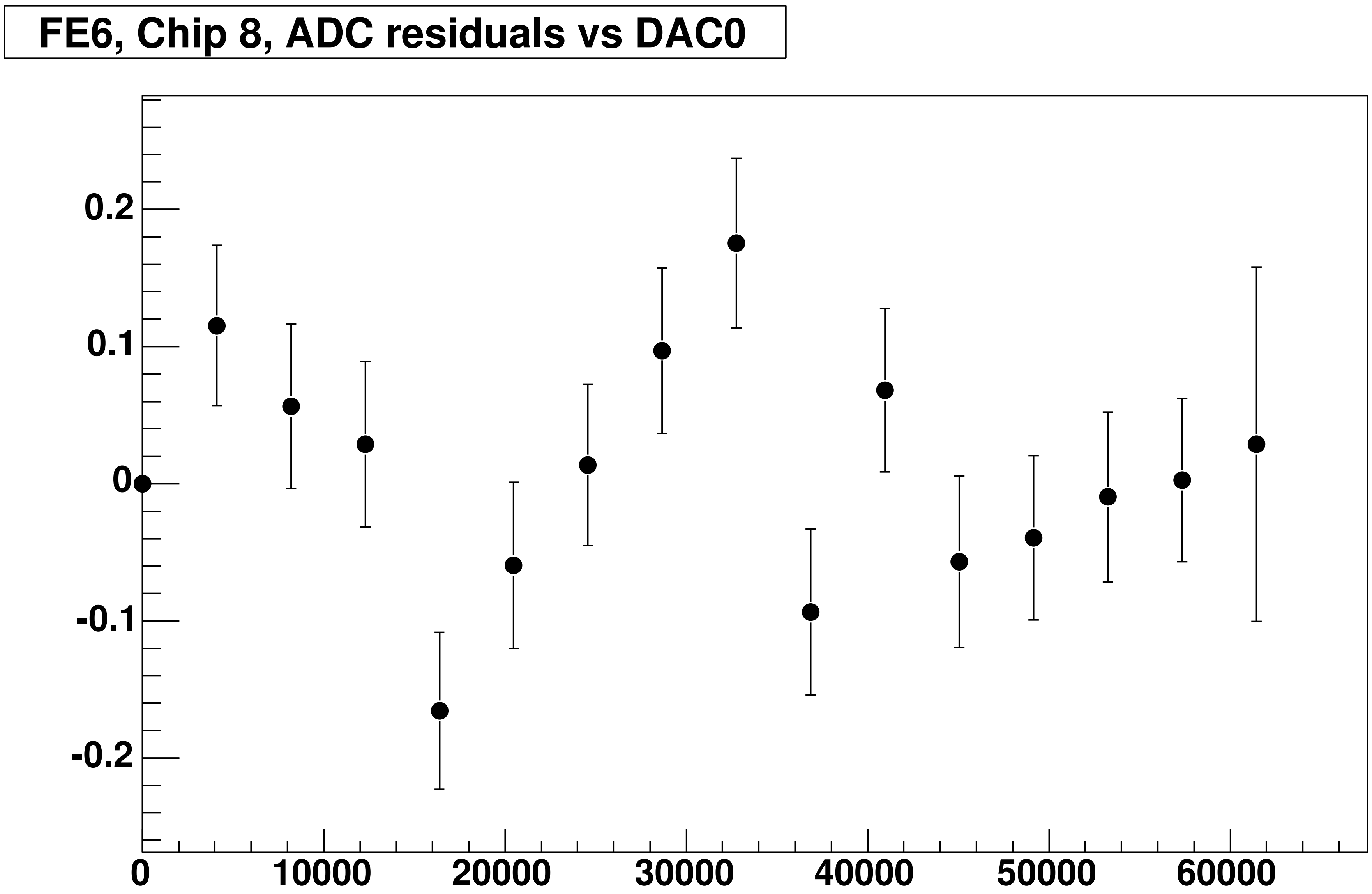

FE6, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

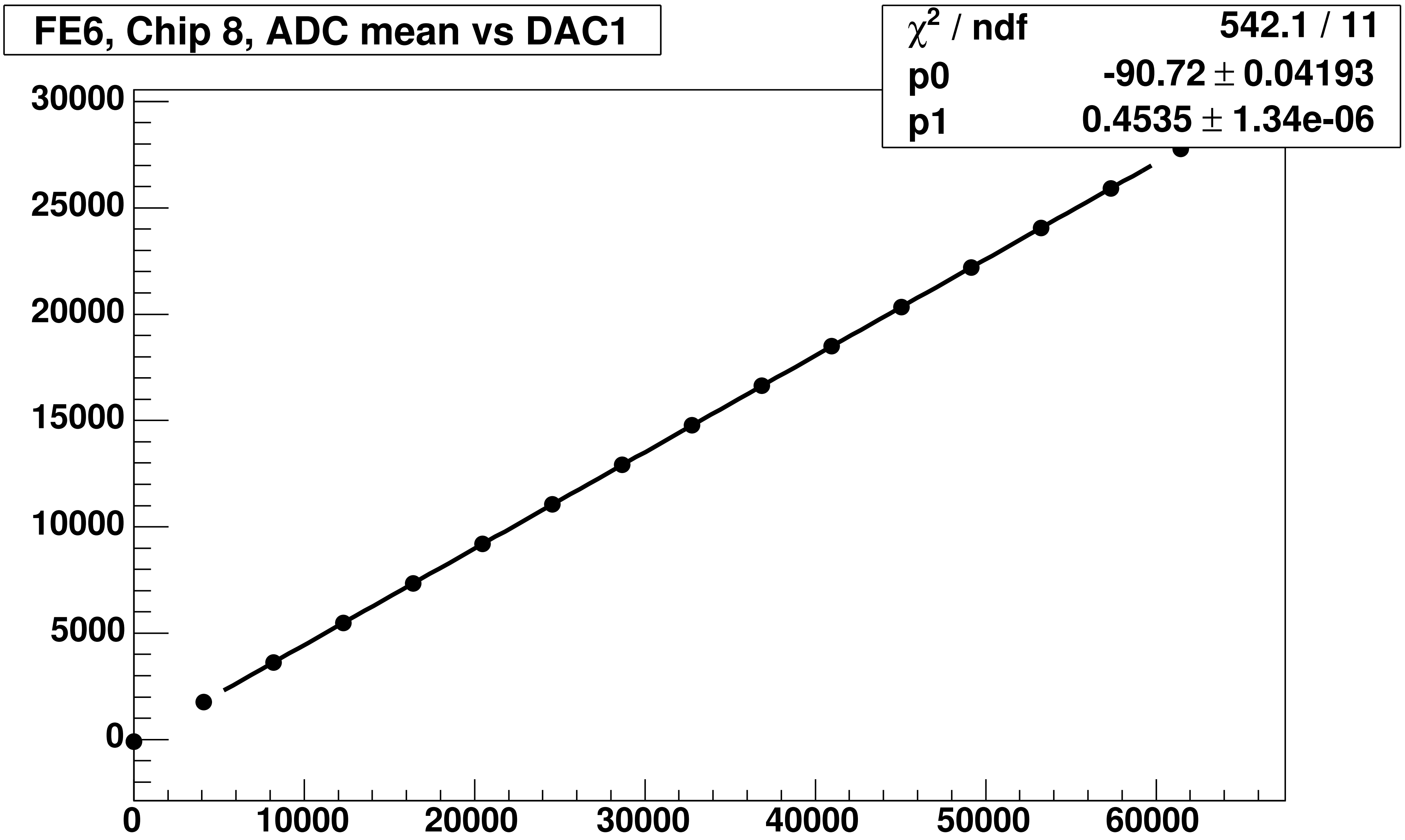

FE6, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000



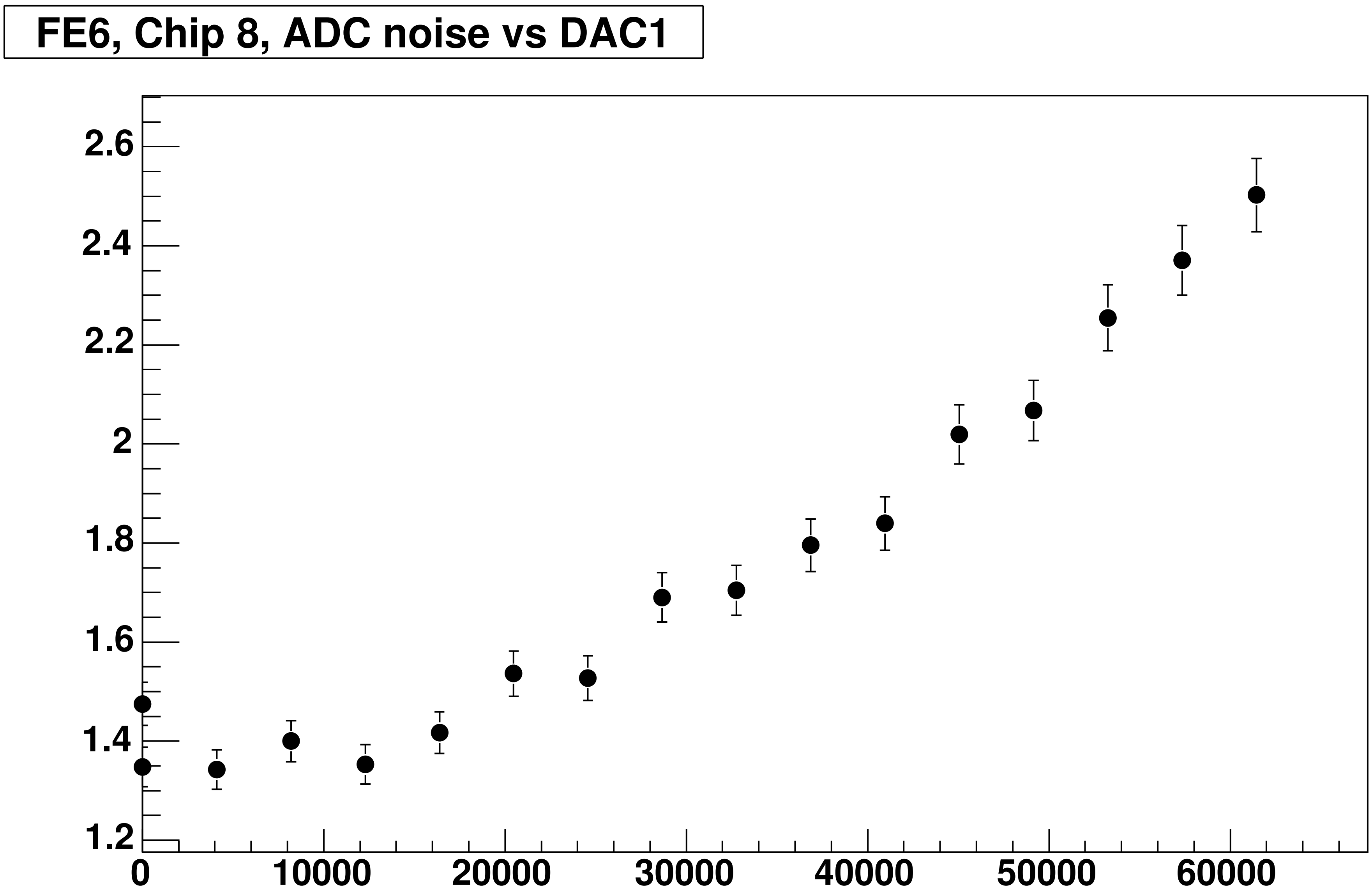
FE6, Chip 8, ADC mean vs DAC0
χ^2 / ndf 26.15 / 11
p0 -89.47 ± 0.03904
p1 -8.832e-07 ± 1.085e-06
-89.2
-89.3
-89.4
-89.5
-89.6
-89.7
0
10000
20000
30000
40000
50000
60000

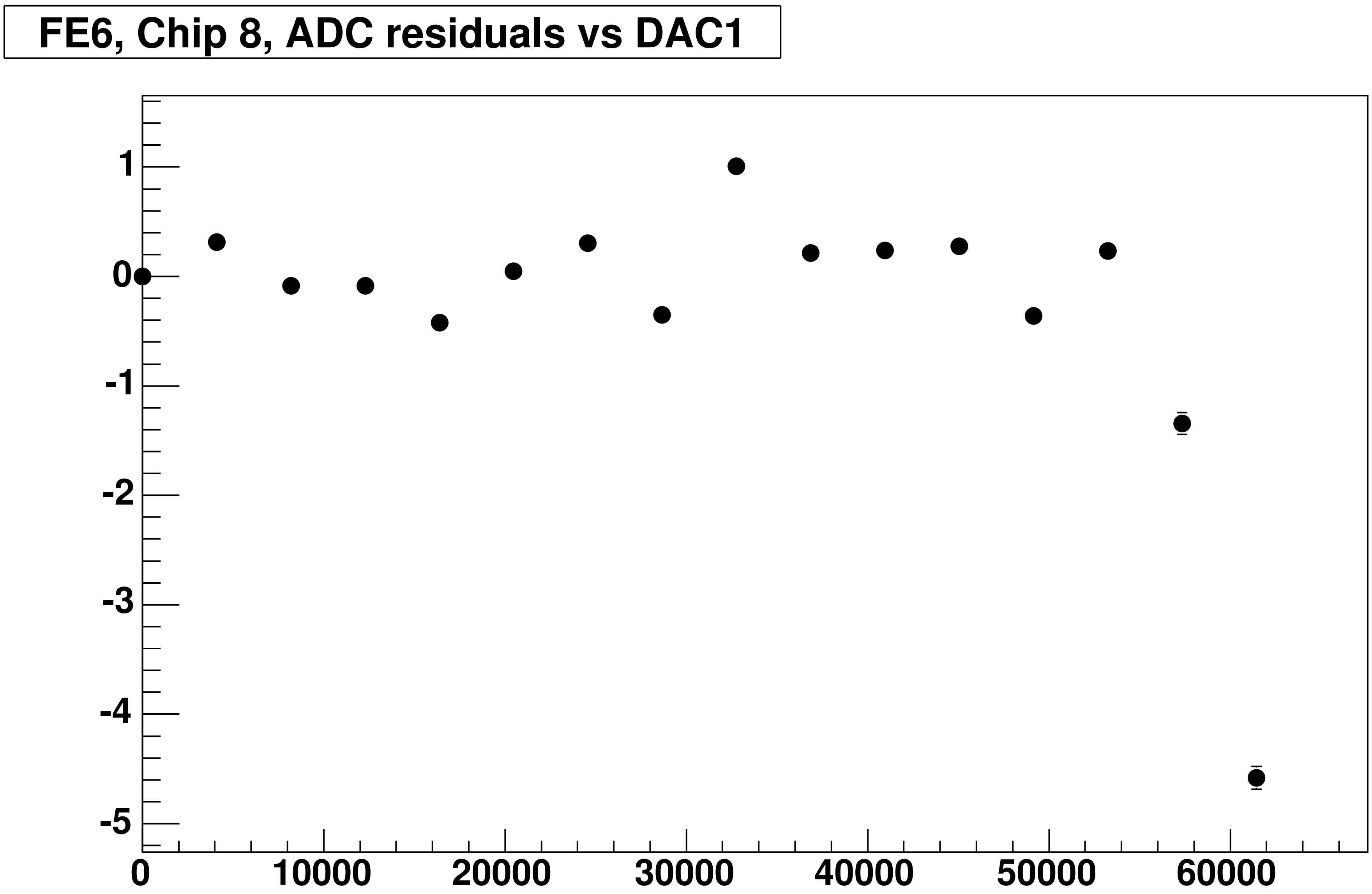

FE6, Chip 8, ADC noise vs DAC0
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

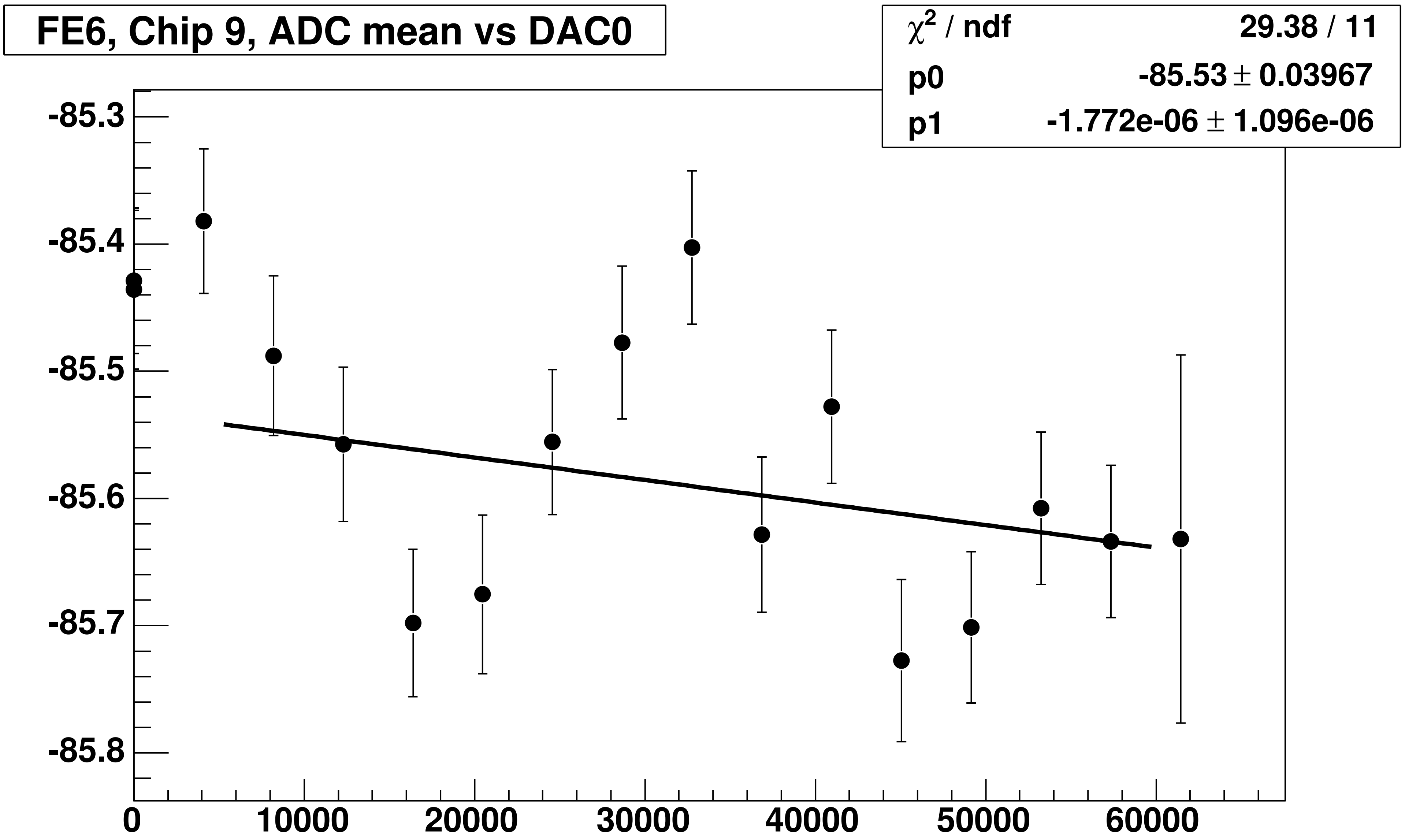

FE6, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



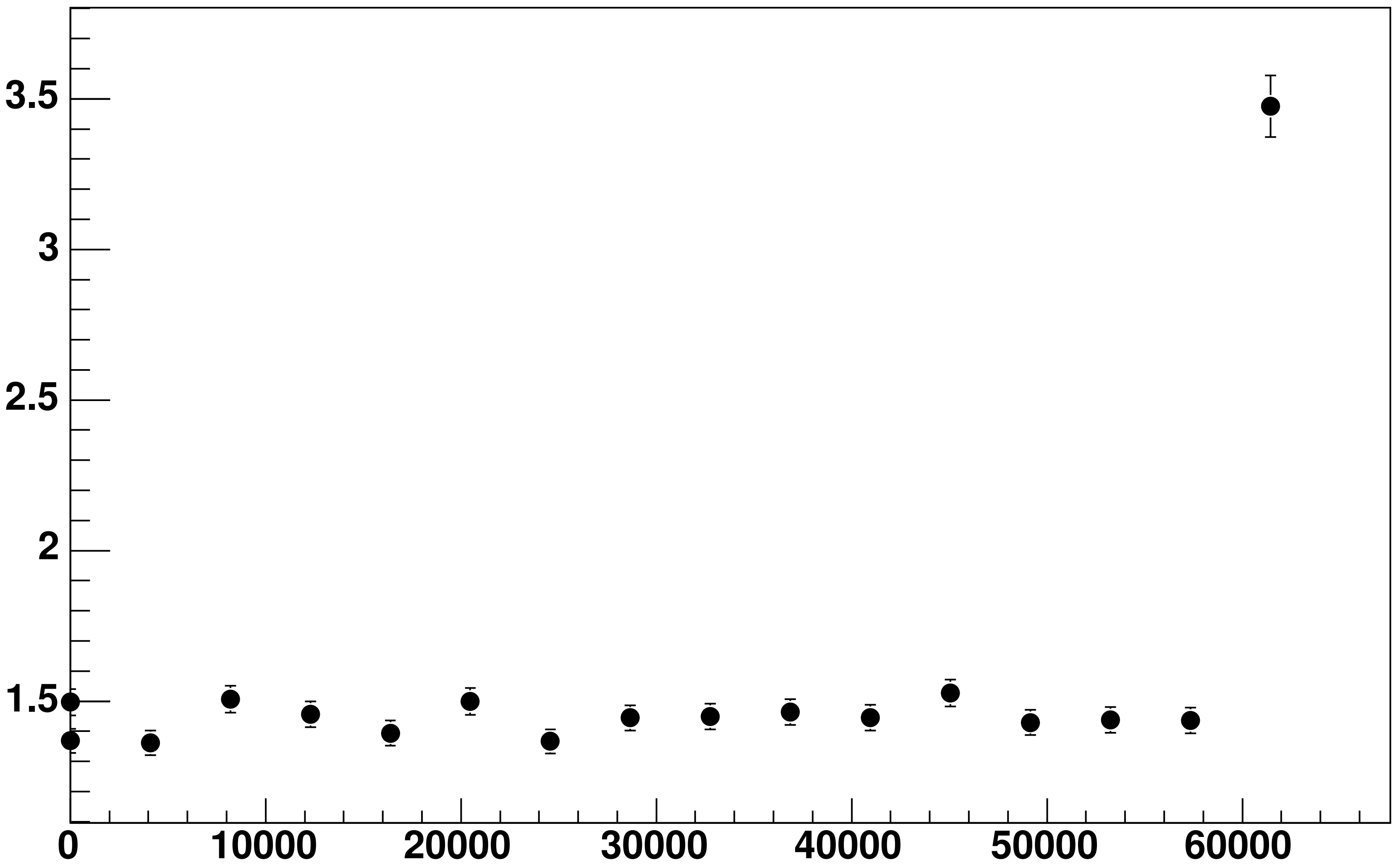
FE6, Chip 8, ADC mean vs DAC1
χ^2 / ndf 542.1 / 11
p0 -90.72 ± 0.04193
p1 0.4535 ± 1.34e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

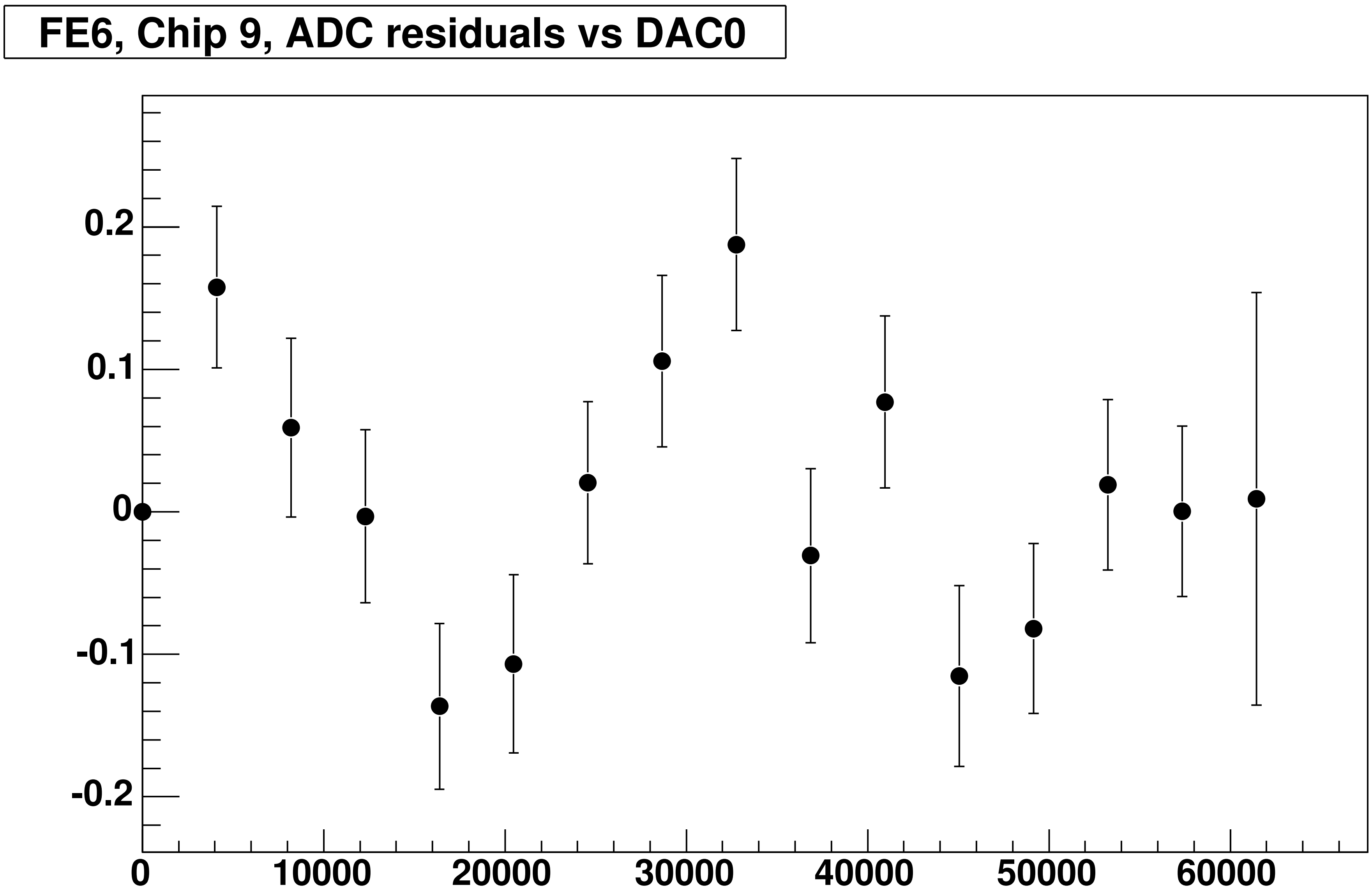

FE6, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

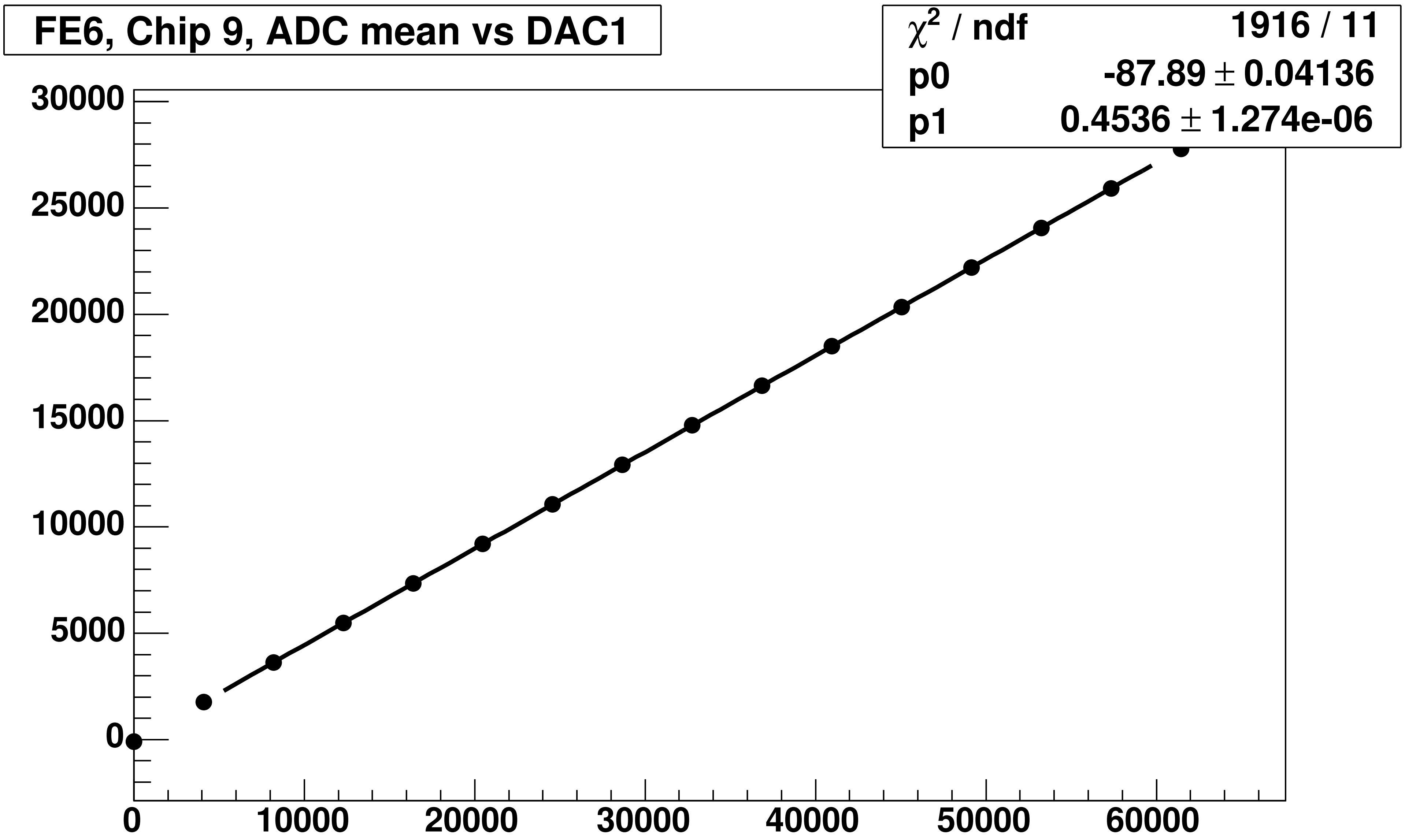

FE6, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE6, Chip 9, ADC mean vs DAC0
χ^2 / ndf 29.38 / 11
p0 -85.53 ± 0.03967
p1 -1.772e-06 ± 1.096e-06
-85.3
-85.4
-85.5
-85.6
-85.7
-85.8
0
10000
20000
30000
40000
50000
60000

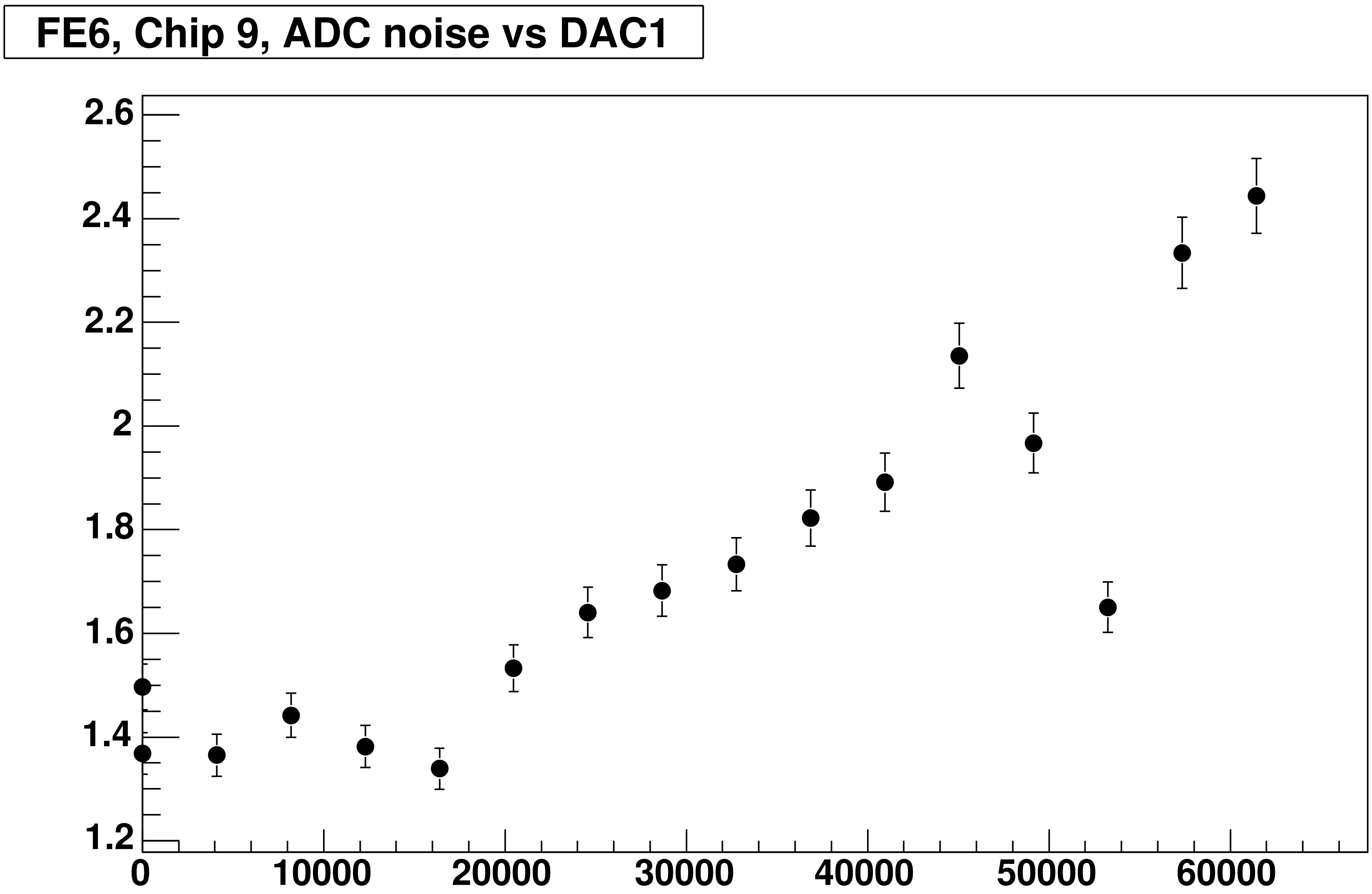
FE6, Chip 9, ADC noise vs DAC0

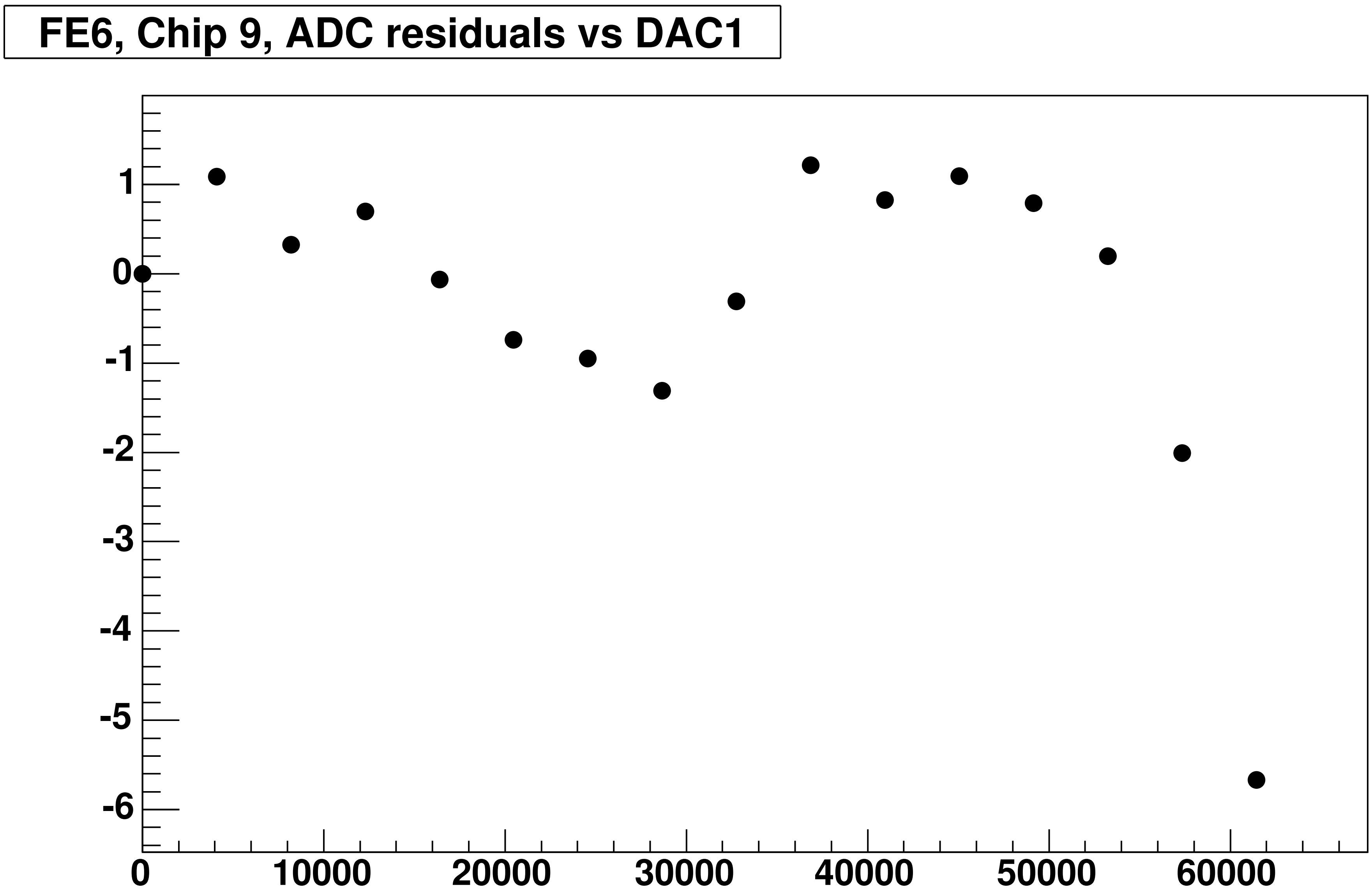


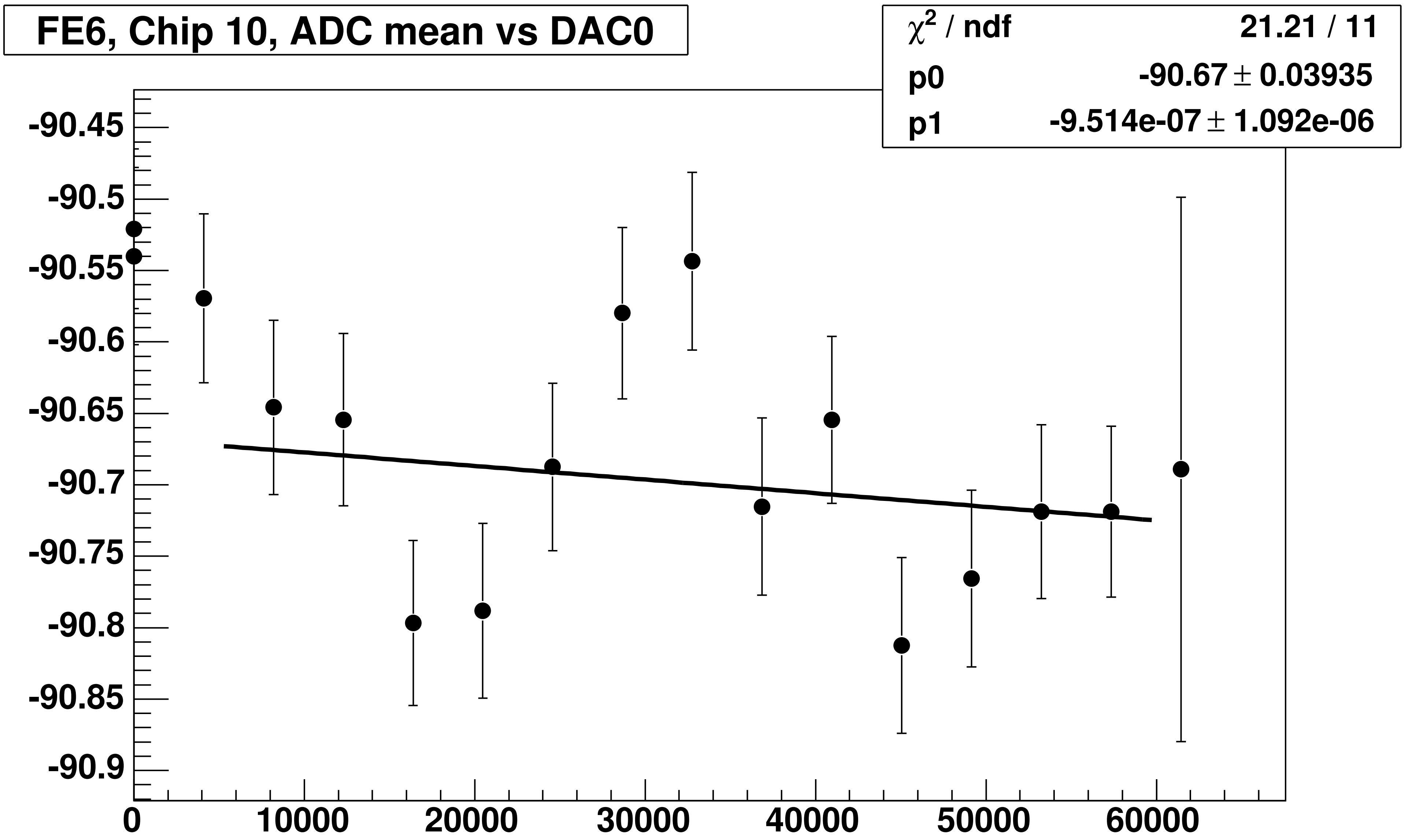

FE6, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

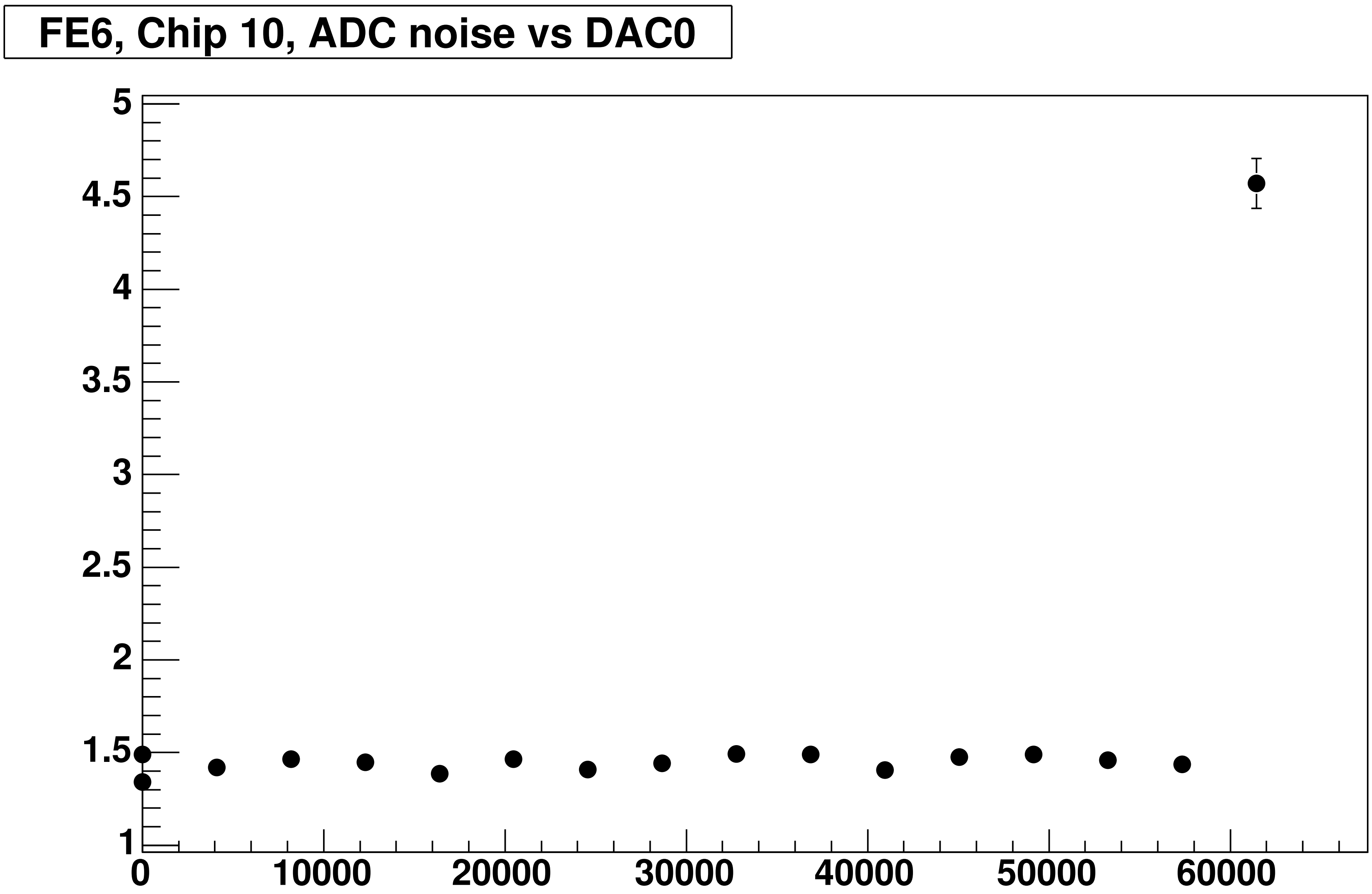


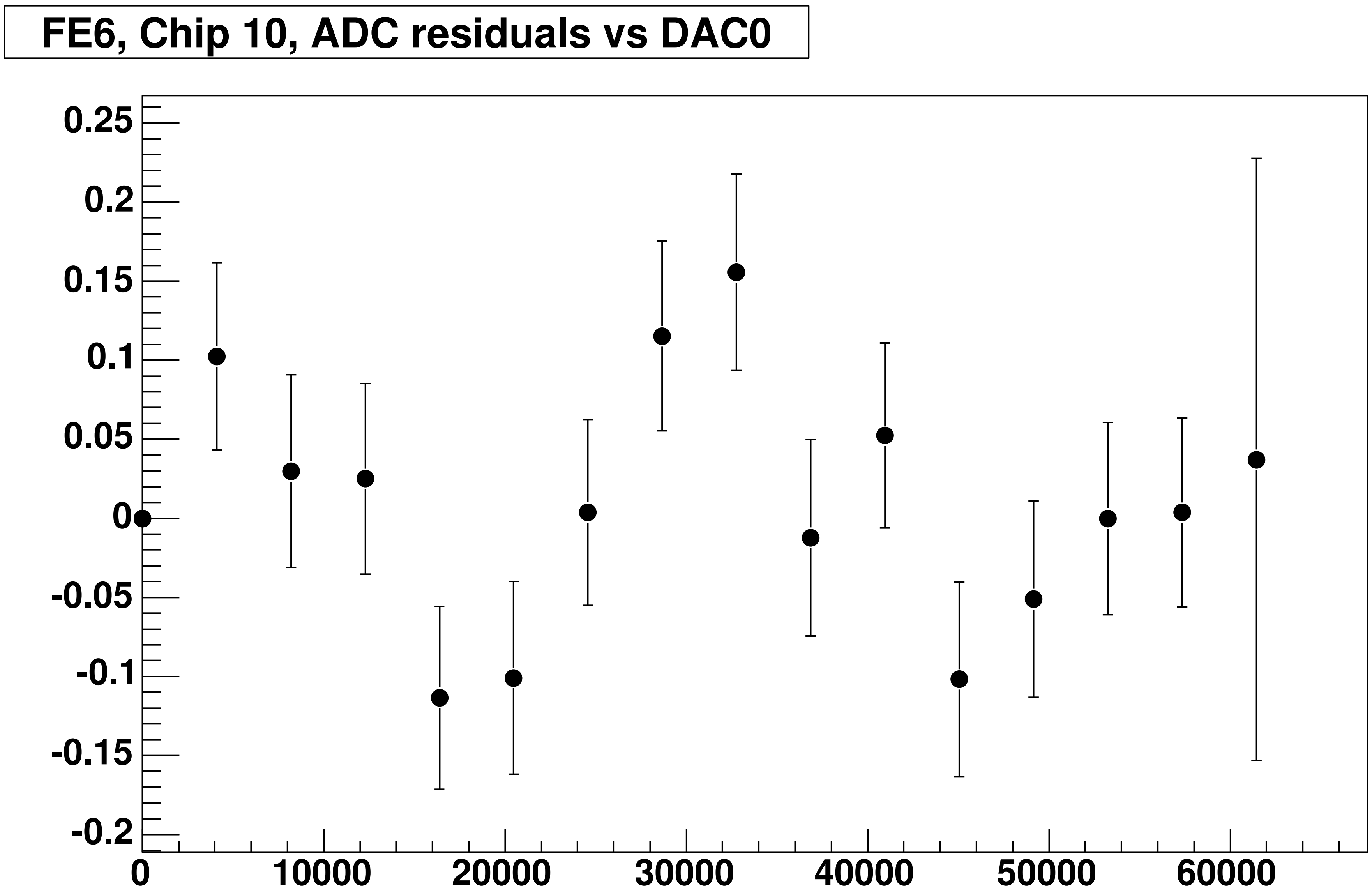
FE6, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1916 / 11
p0 -87.89 ± 0.04136
p1 0.4536 ± 1.274e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

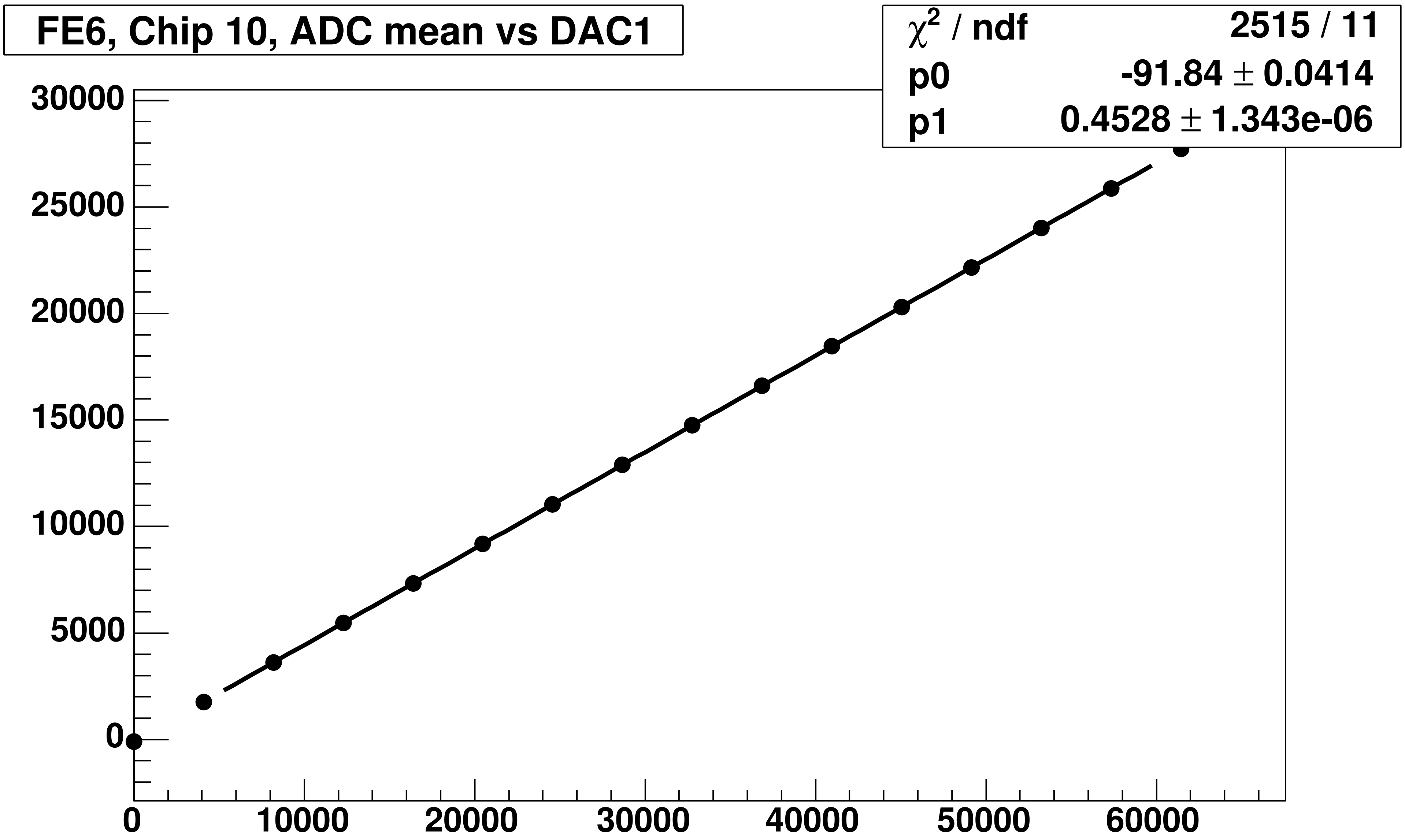

FE6, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

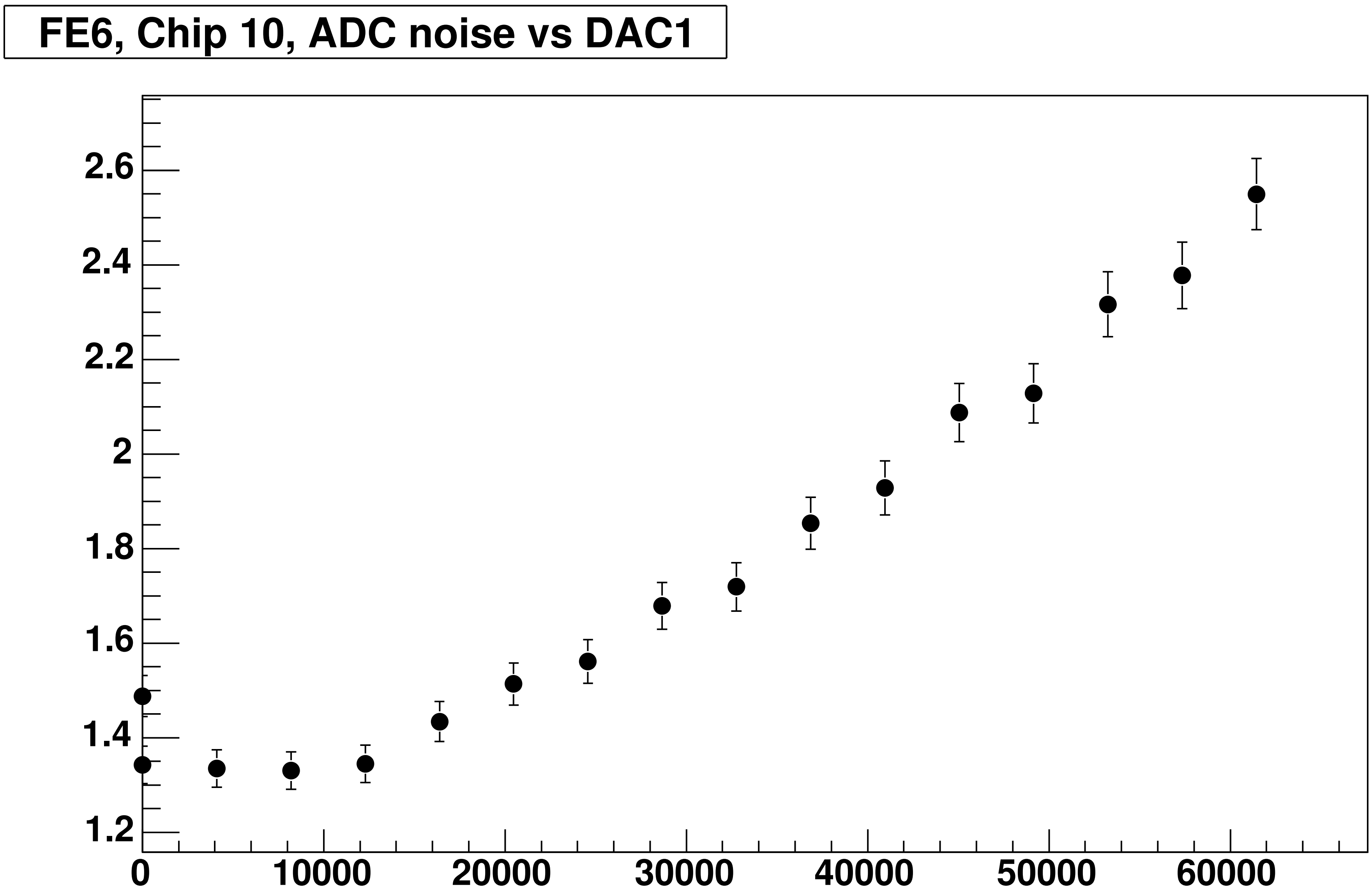

FE6, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

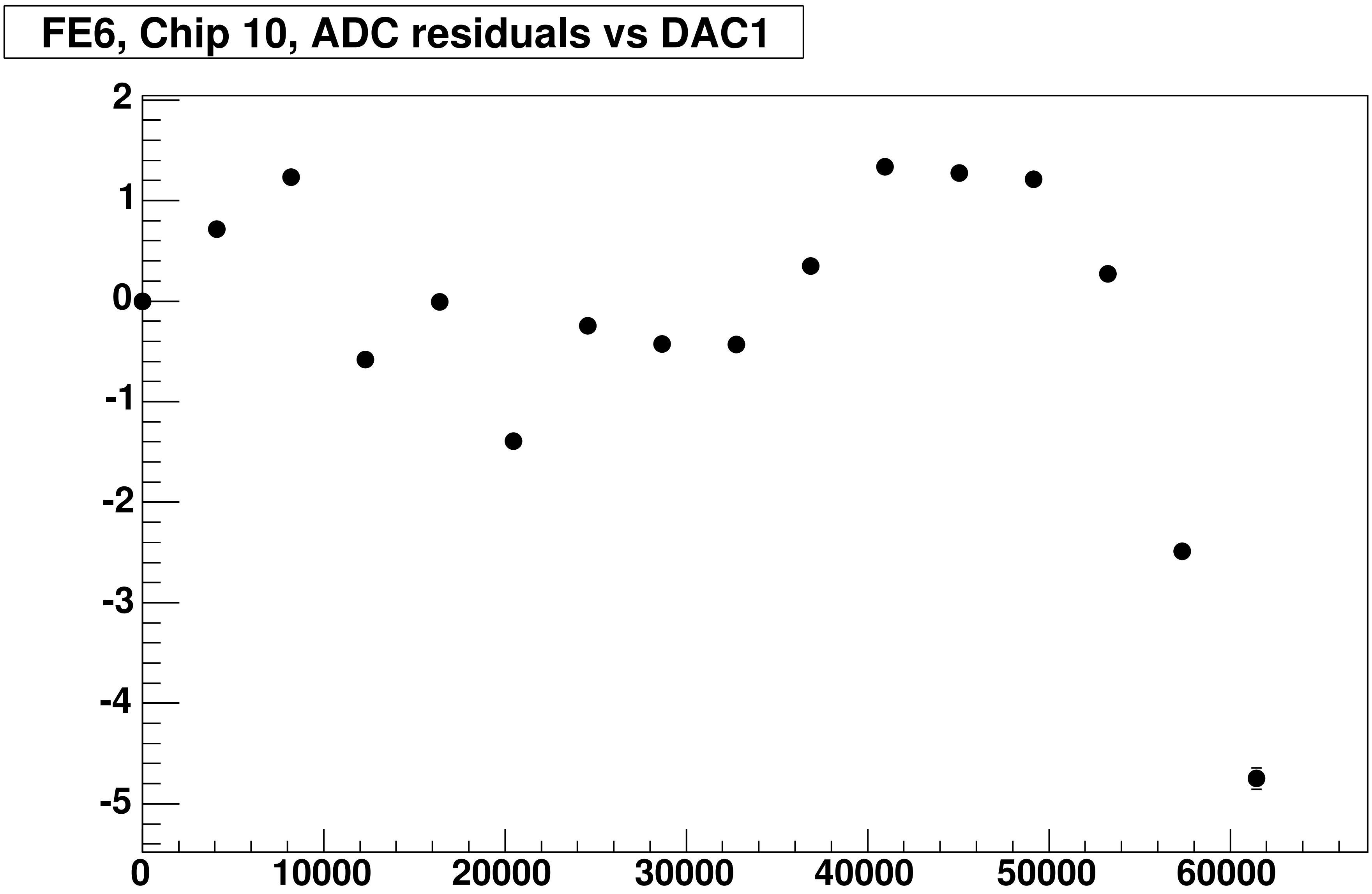

FE6, Chip 10, ADC mean vs DAC0
χ^2 / ndf 21.21 / 11
p0 -90.67 ± 0.03935
p1 -9.514e-07 ± 1.092e-06
-90.45
-90.5
-90.55
-90.6
-90.65
-90.7
-90.75
-90.8
-90.85
-90.9
0
10000
20000
30000
40000
50000
60000

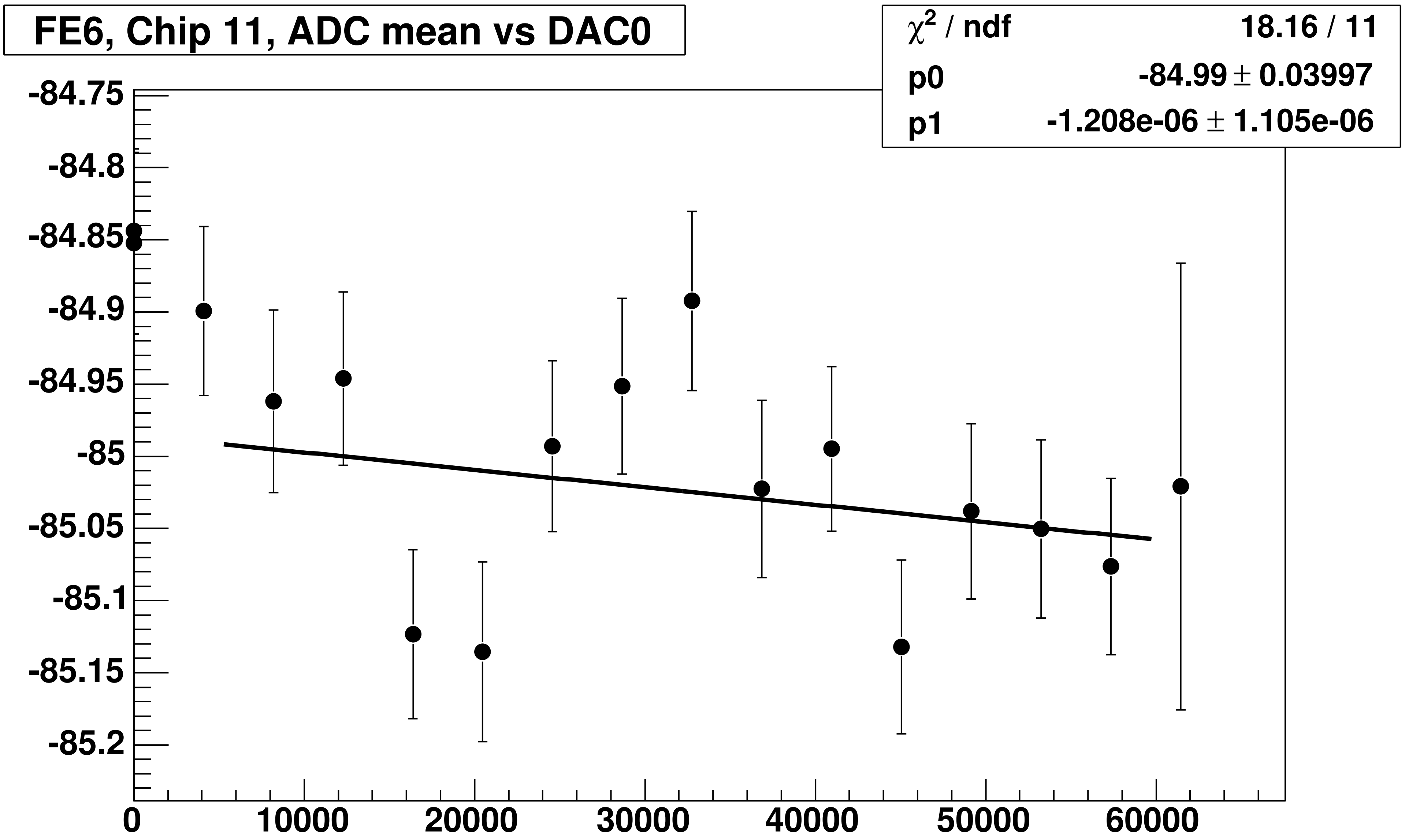

FE6, Chip 10, ADC noise vs DAC0
5
4.5
4
3.5
3
2.5
2
1.5
1
0
10000
20000
30000
40000
50000
60000


FE6, Chip 10, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

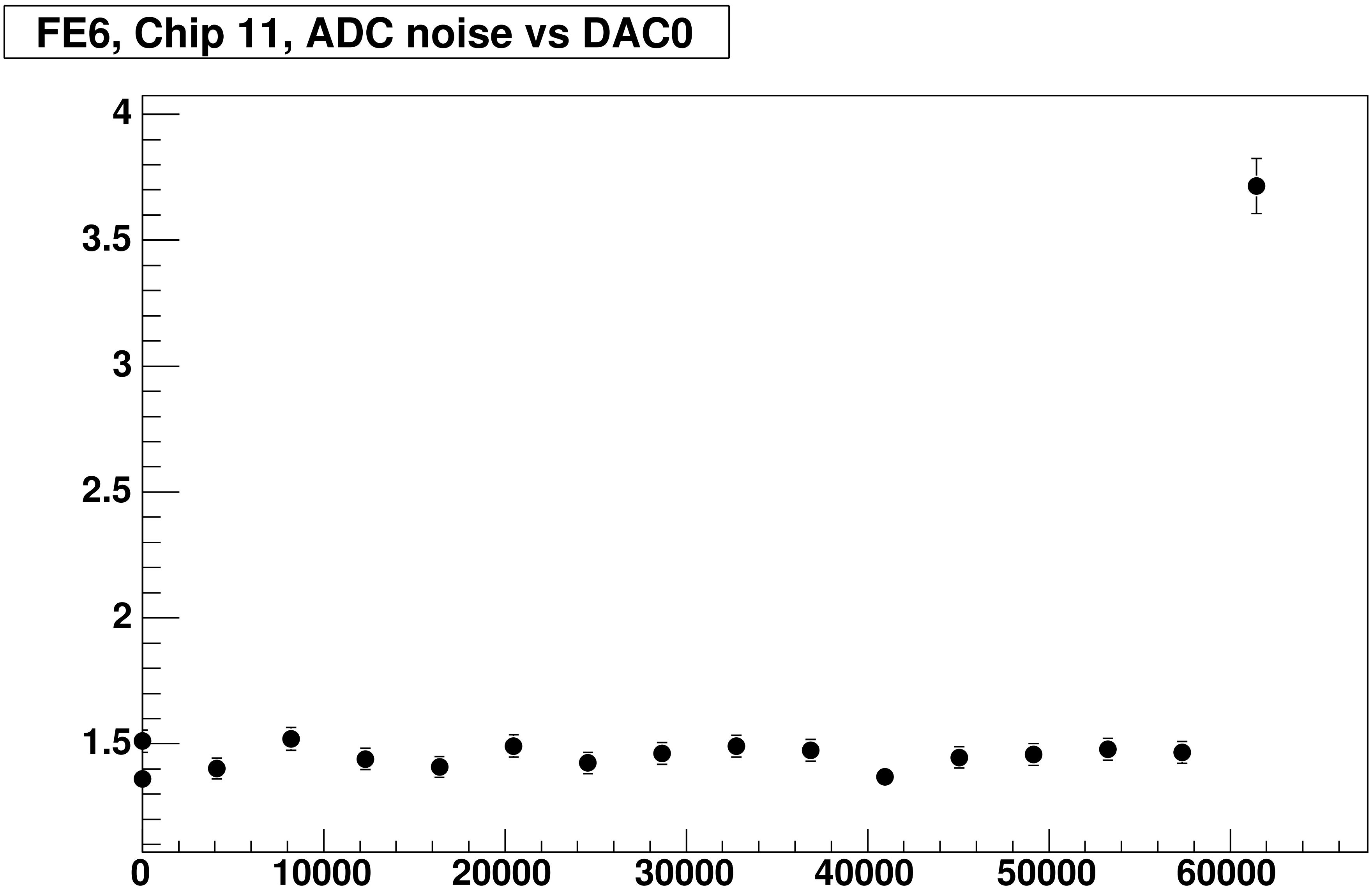

FE6, Chip 10, ADC mean vs DAC1
χ² / ndf 2515 / 11
p0 -91.84 ± 0.0414
p1 0.4528 ± 1.343e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE6, 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

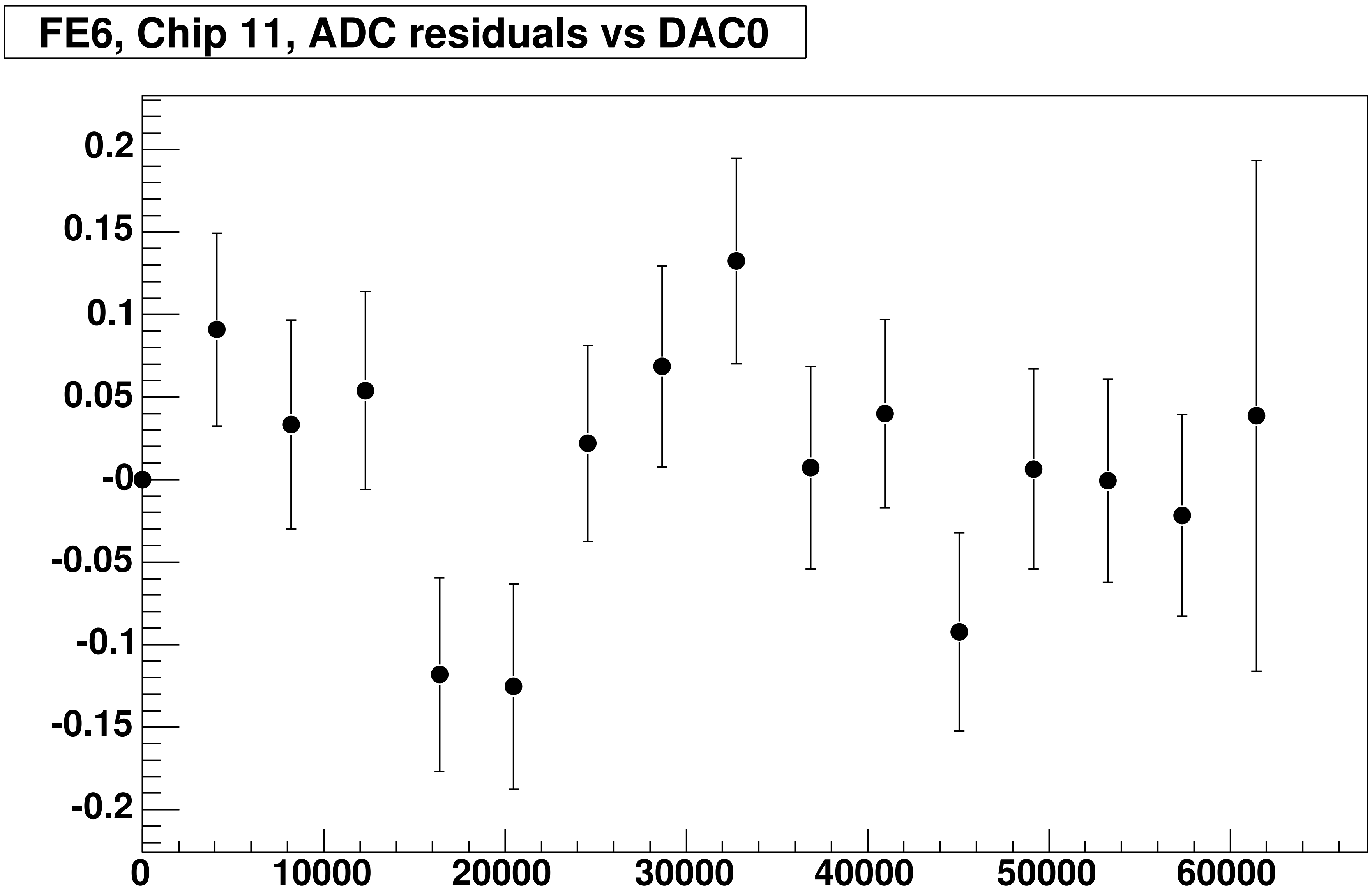

FE6, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

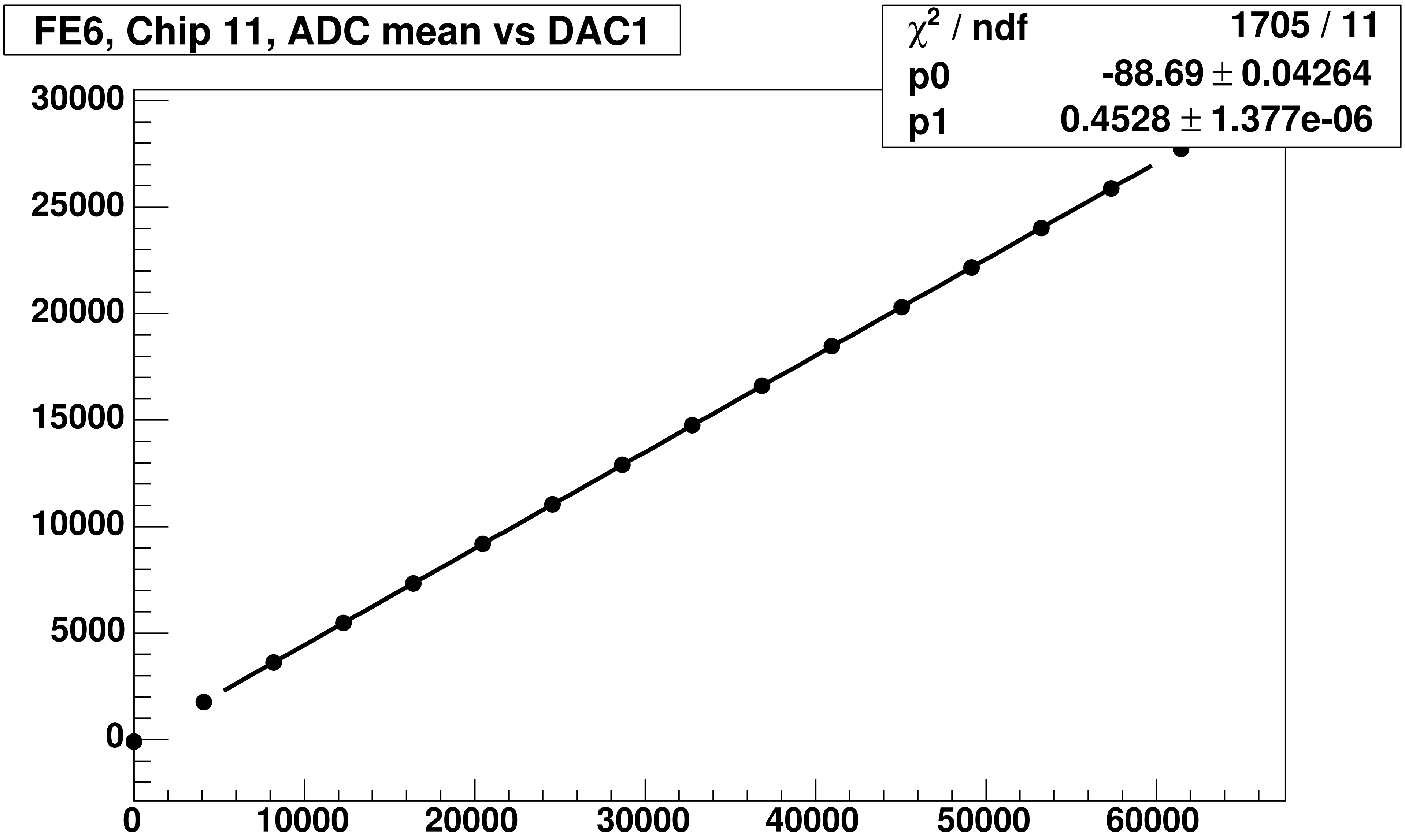


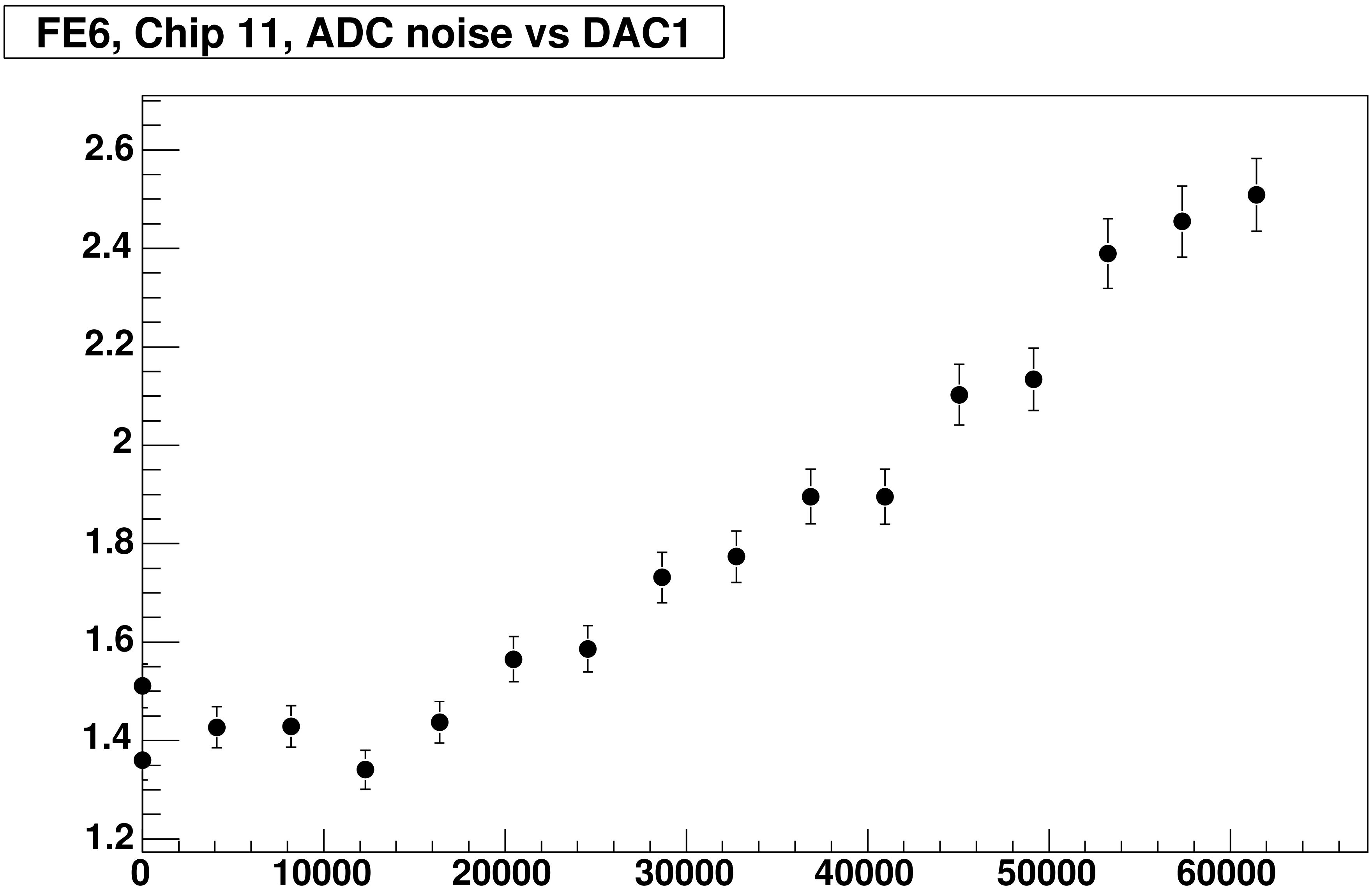
FE6, Chip 11, ADC mean vs DAC0
χ^2 / ndf 18.16 / 11
p0 -84.99 ± 0.03997
p1 -1.208e-06 ± 1.105e-06
-84.75
-84.8
-84.85
-84.9
-84.95
-85
-85.05
-85.1
-85.15
-85.2
0
10000
20000
30000
40000
50000
60000



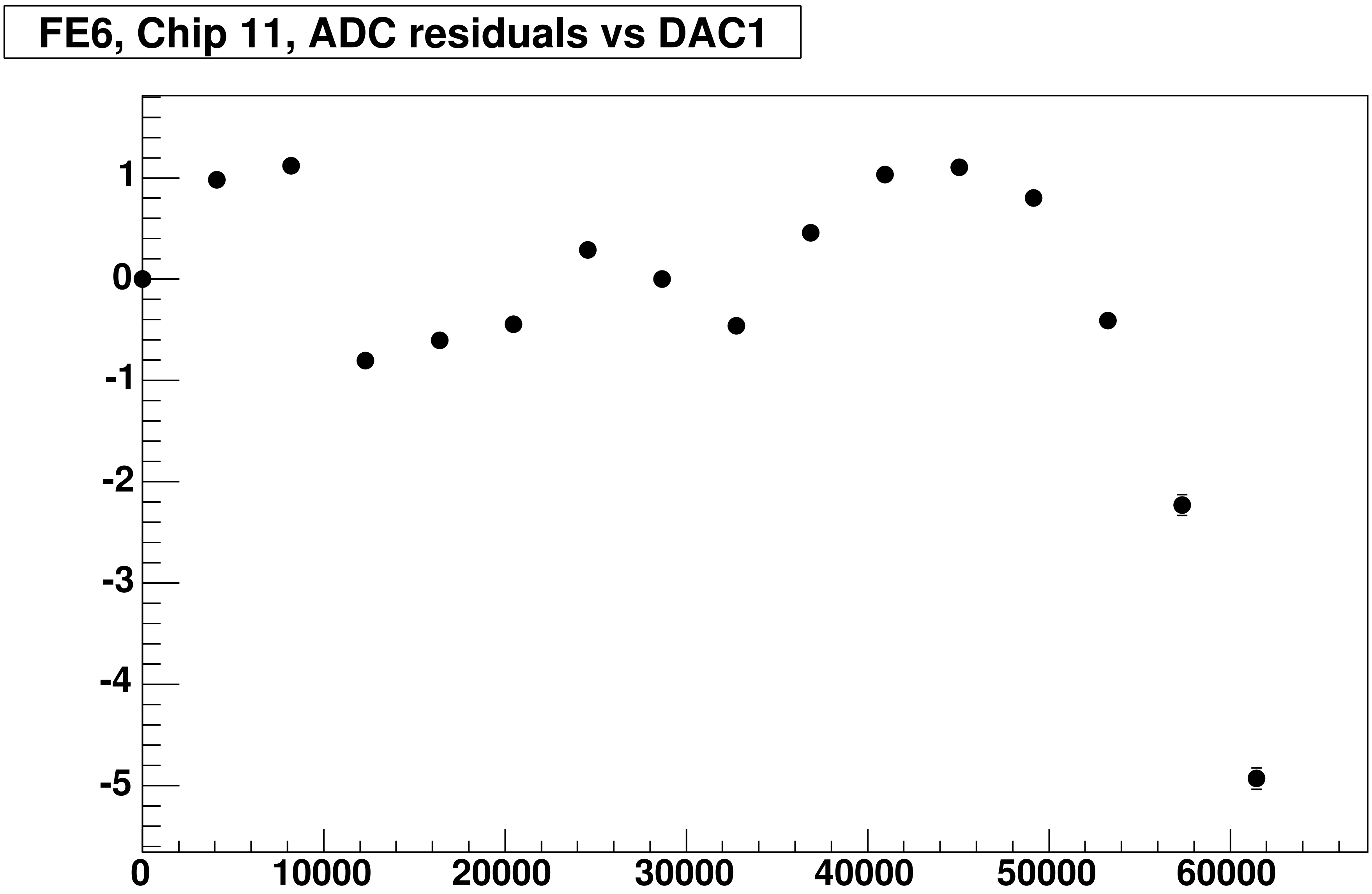
FE6, Chip 11, ADC noise vs DAC0
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

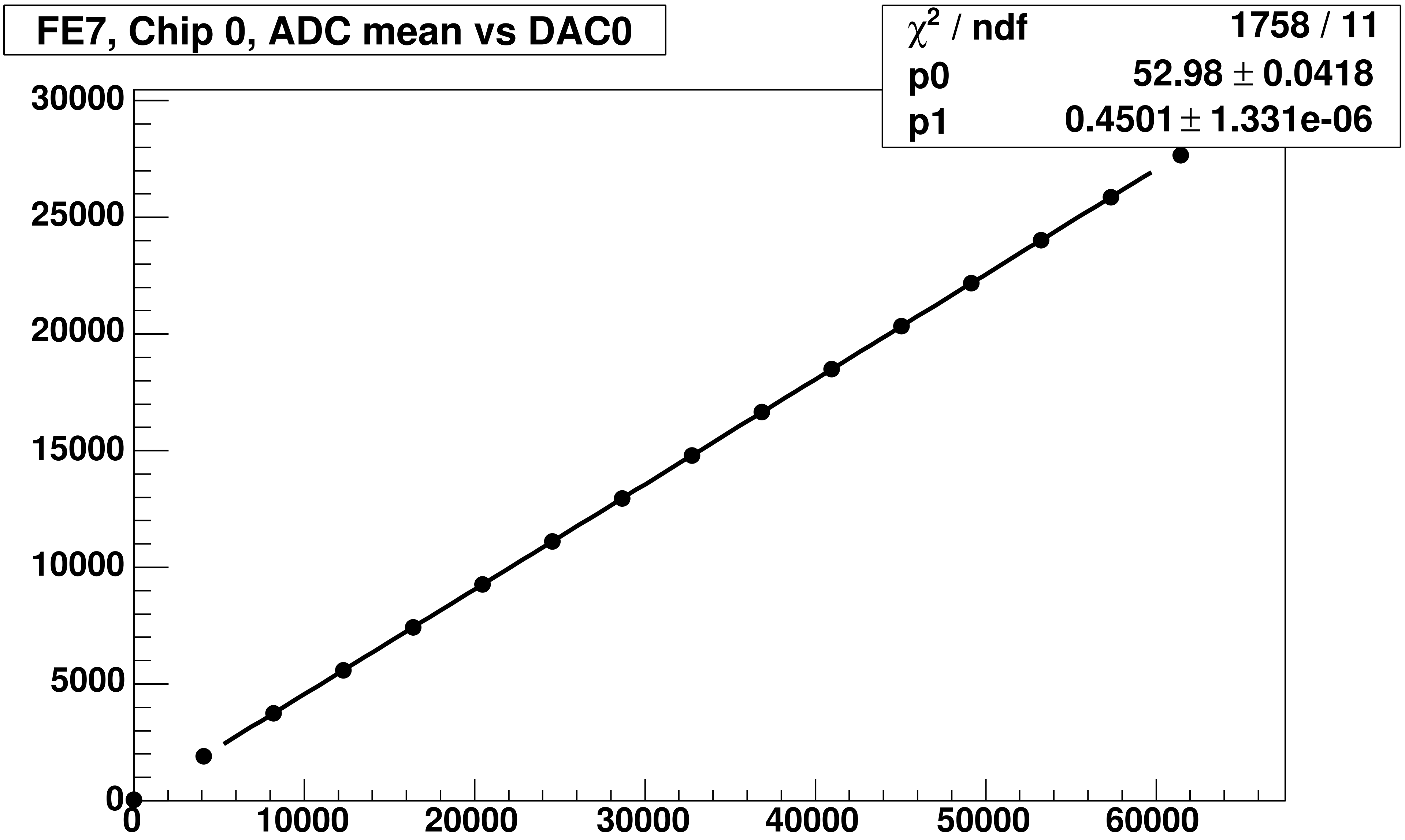

FE6, Chip 11, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE6, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1705 / 11
p0 -88.69 ± 0.04264
p1 0.4528 ± 1.377e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

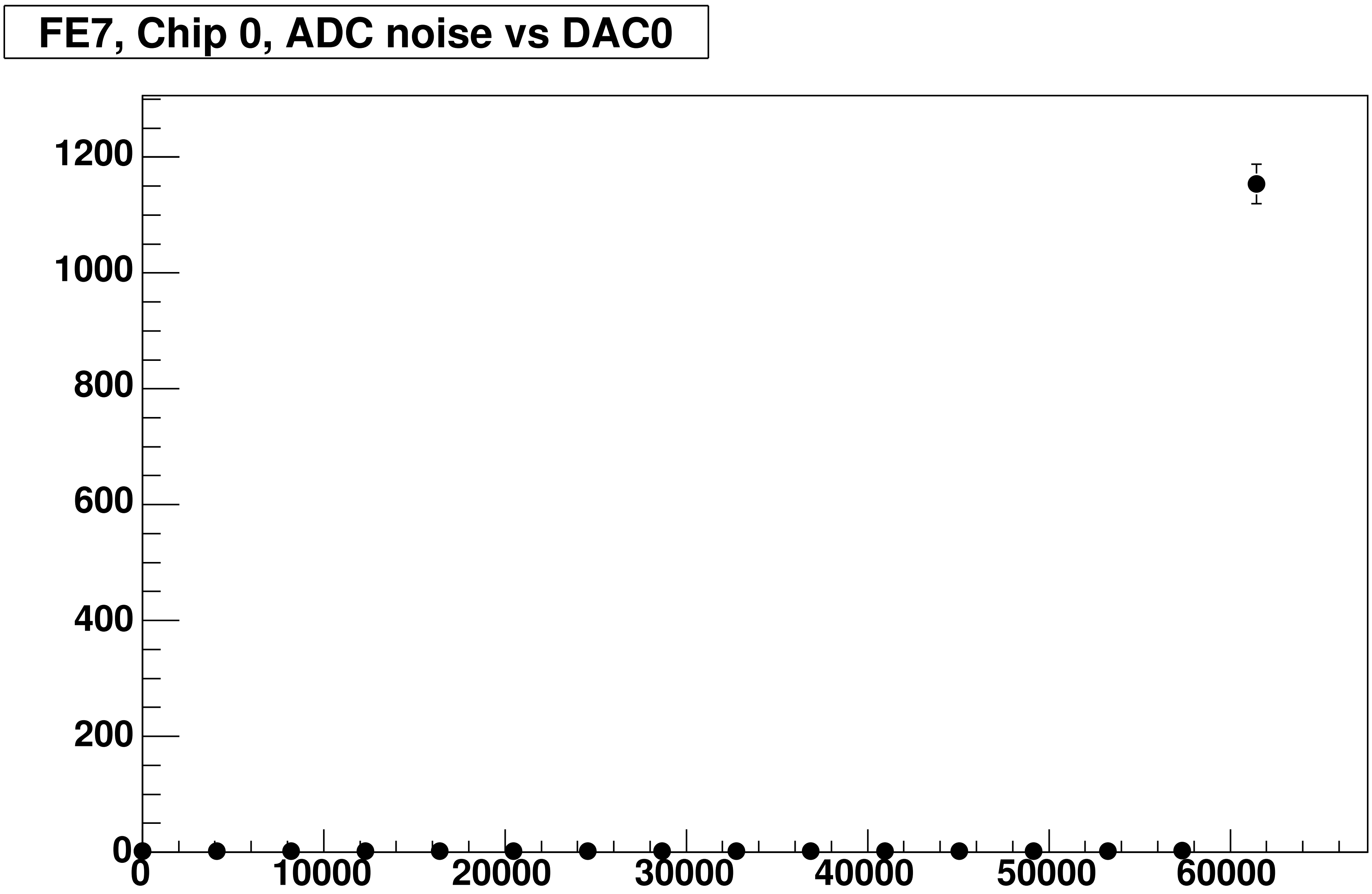


FE6, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

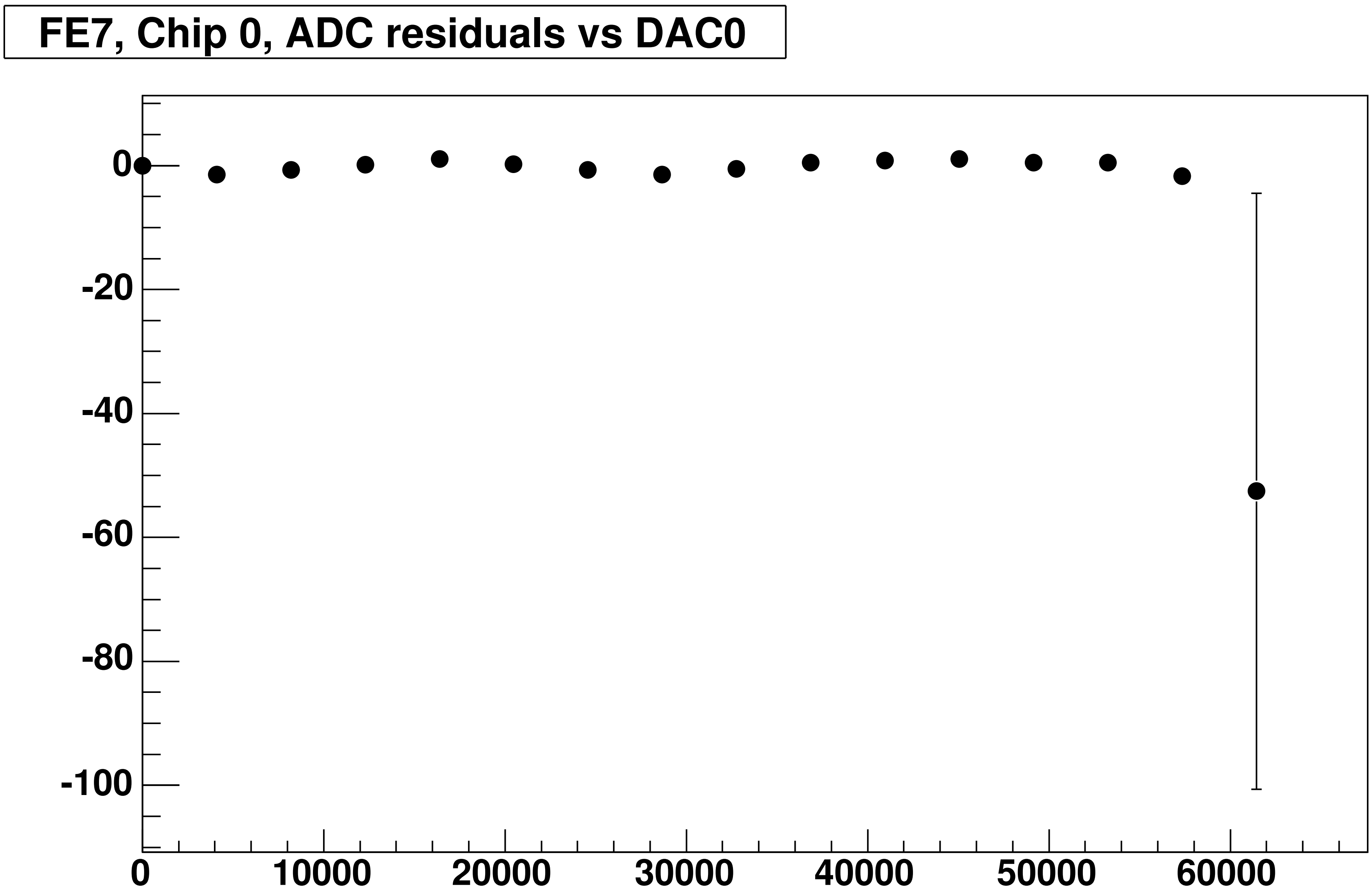

FE6, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



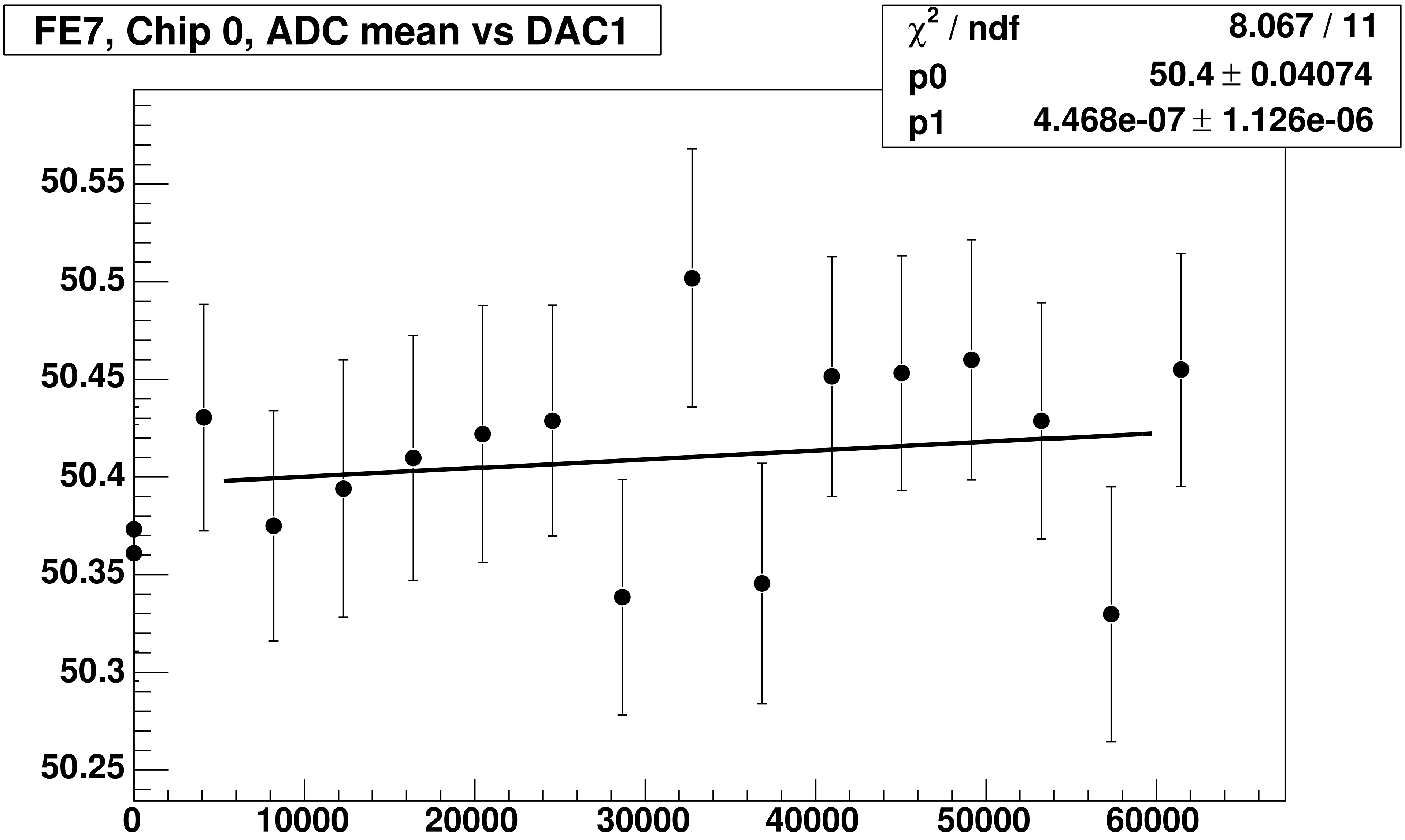
FE7, Chip 0, ADC mean vs DAC0
χ² / ndf 1758 / 11
p0 52.98 ± 0.0418
p1 0.4501 ± 1.331e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000



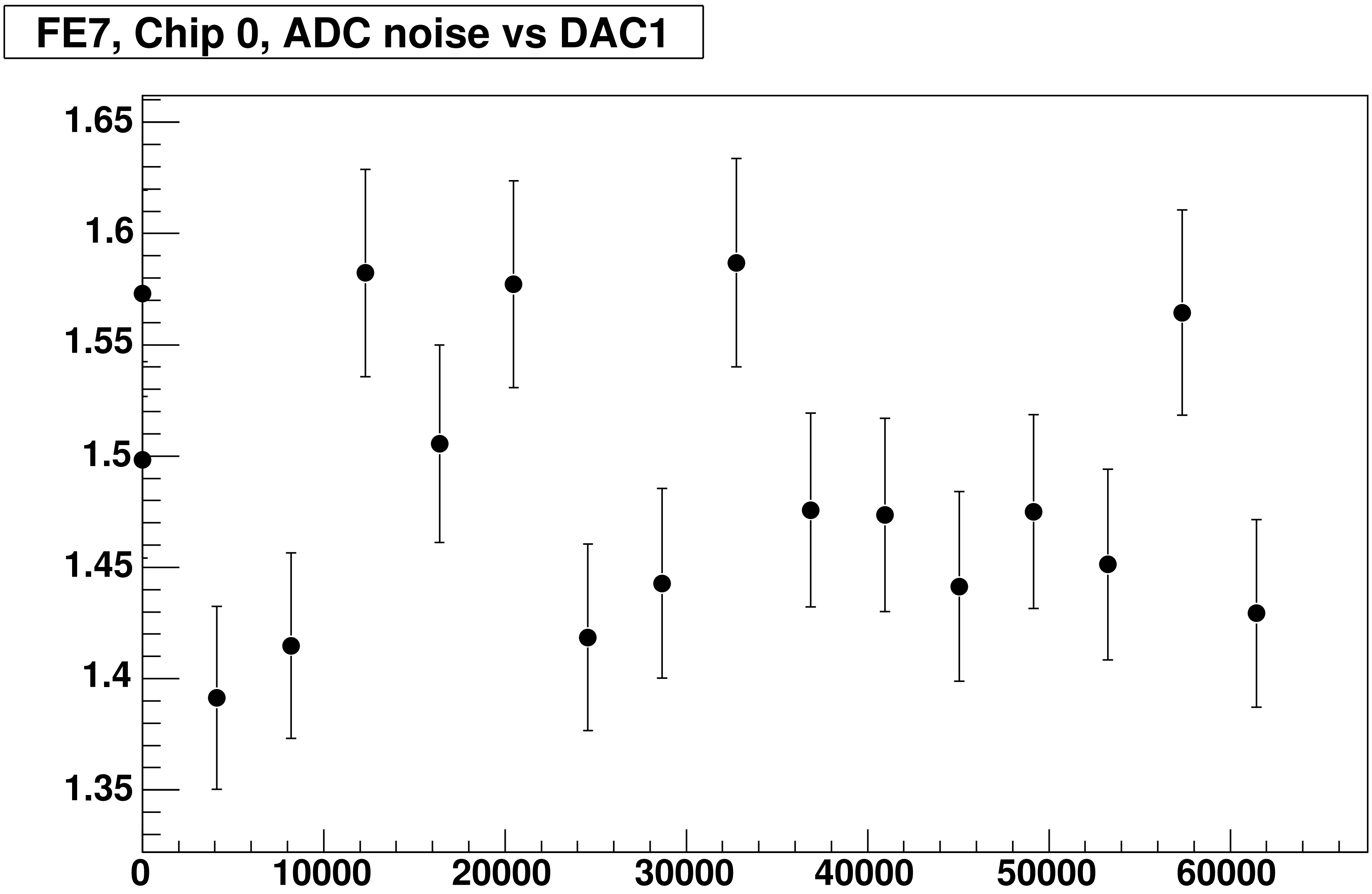
FE7, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

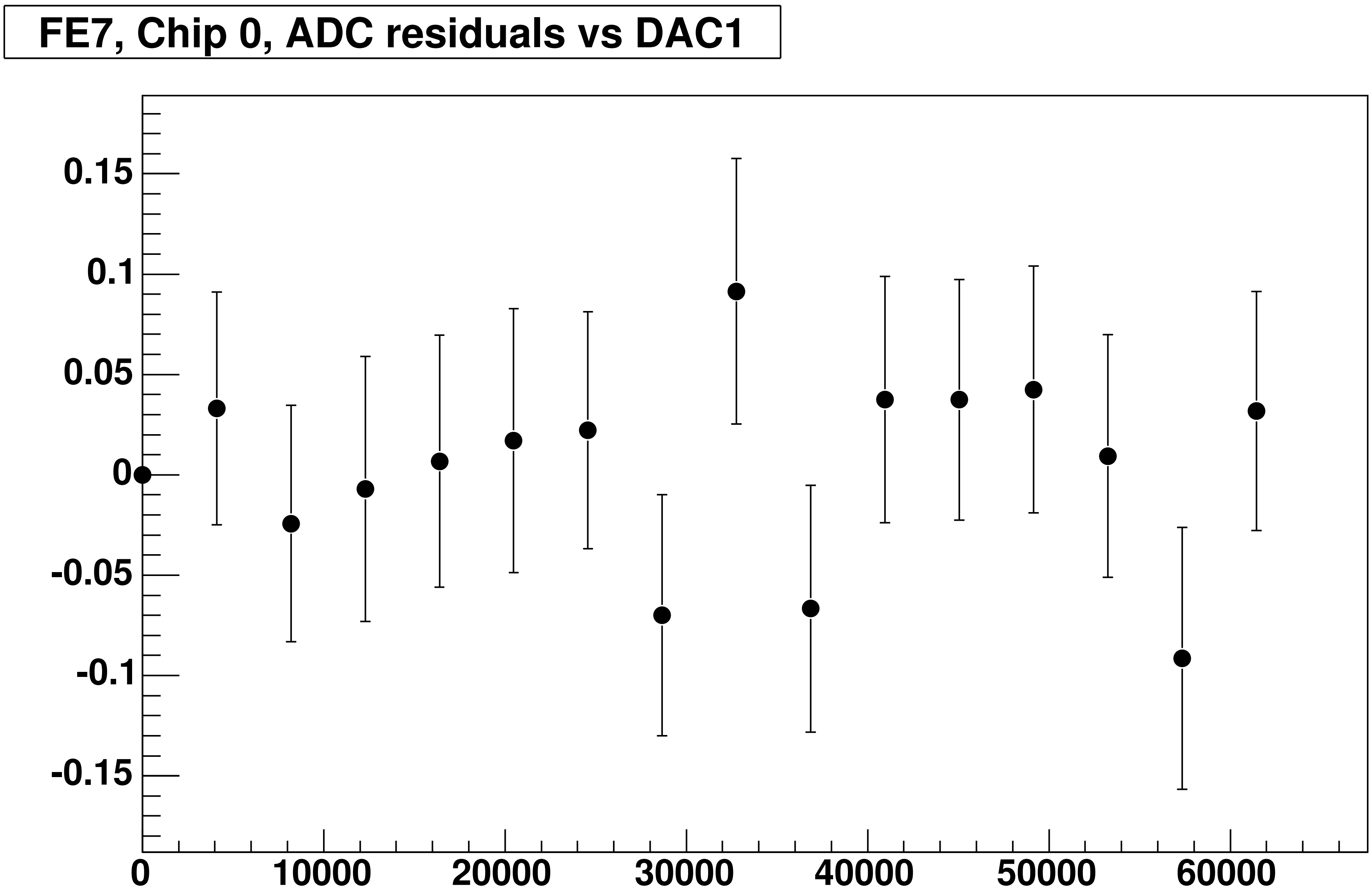


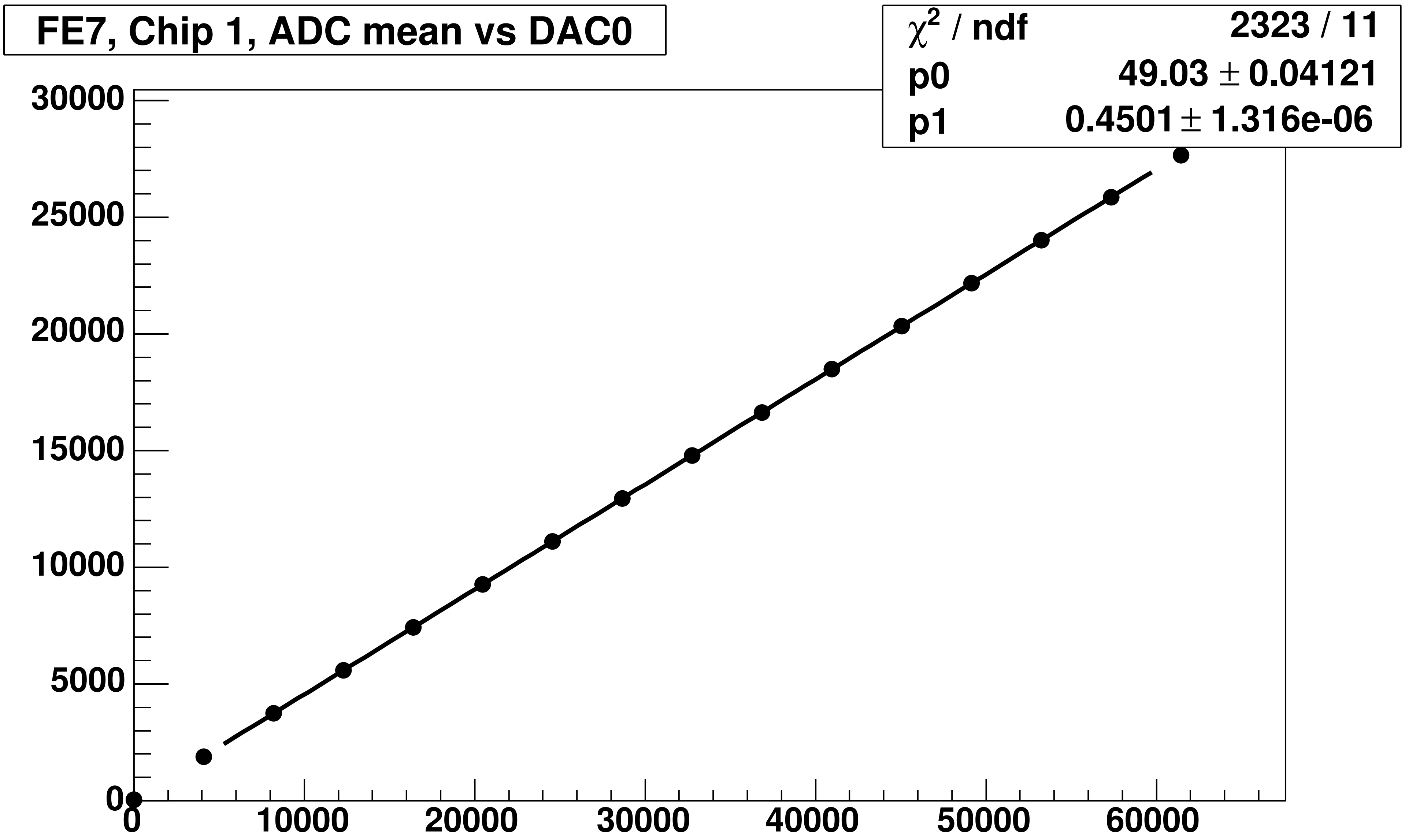
FE7, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

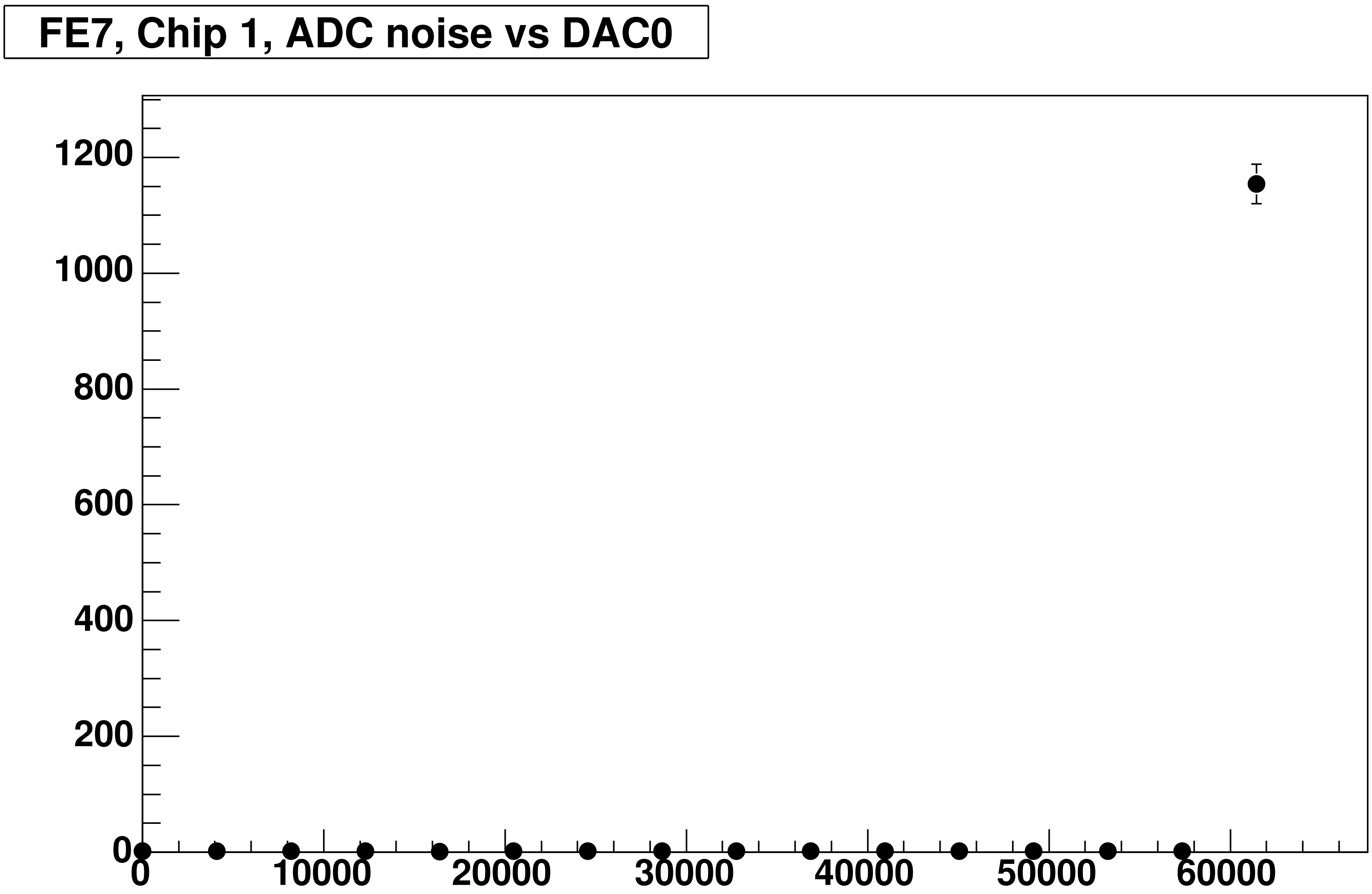


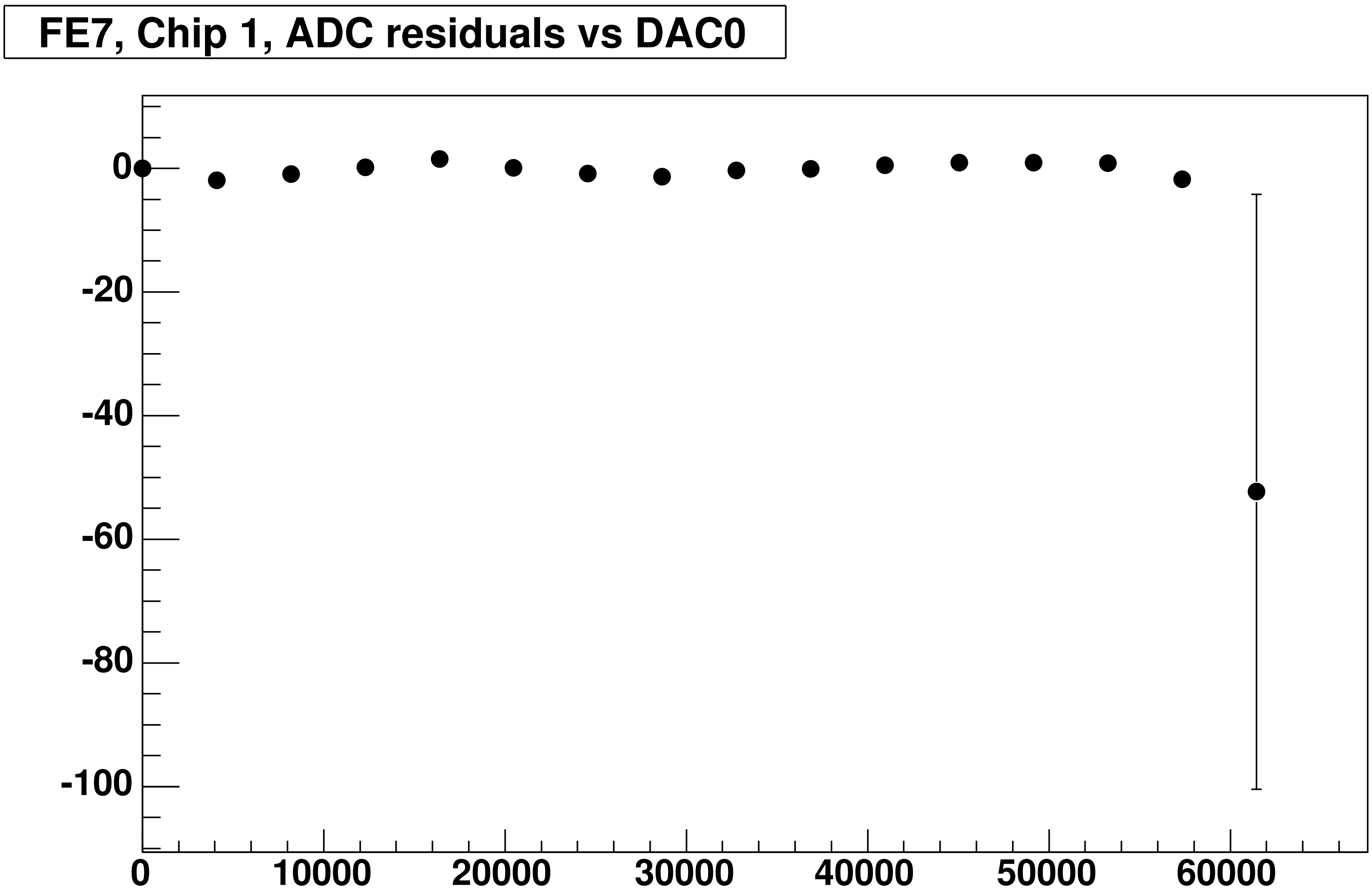
FE7, Chip 0, ADC mean vs DAC1
χ^2 / ndf 8.067 / 11
p0 50.4 ± 0.04074
p1 4.468e-07 ± 1.126e-06
50.55
50.5
50.45
50.4
50.35
50.3
50.25
0
10000
20000
30000
40000
50000
60000

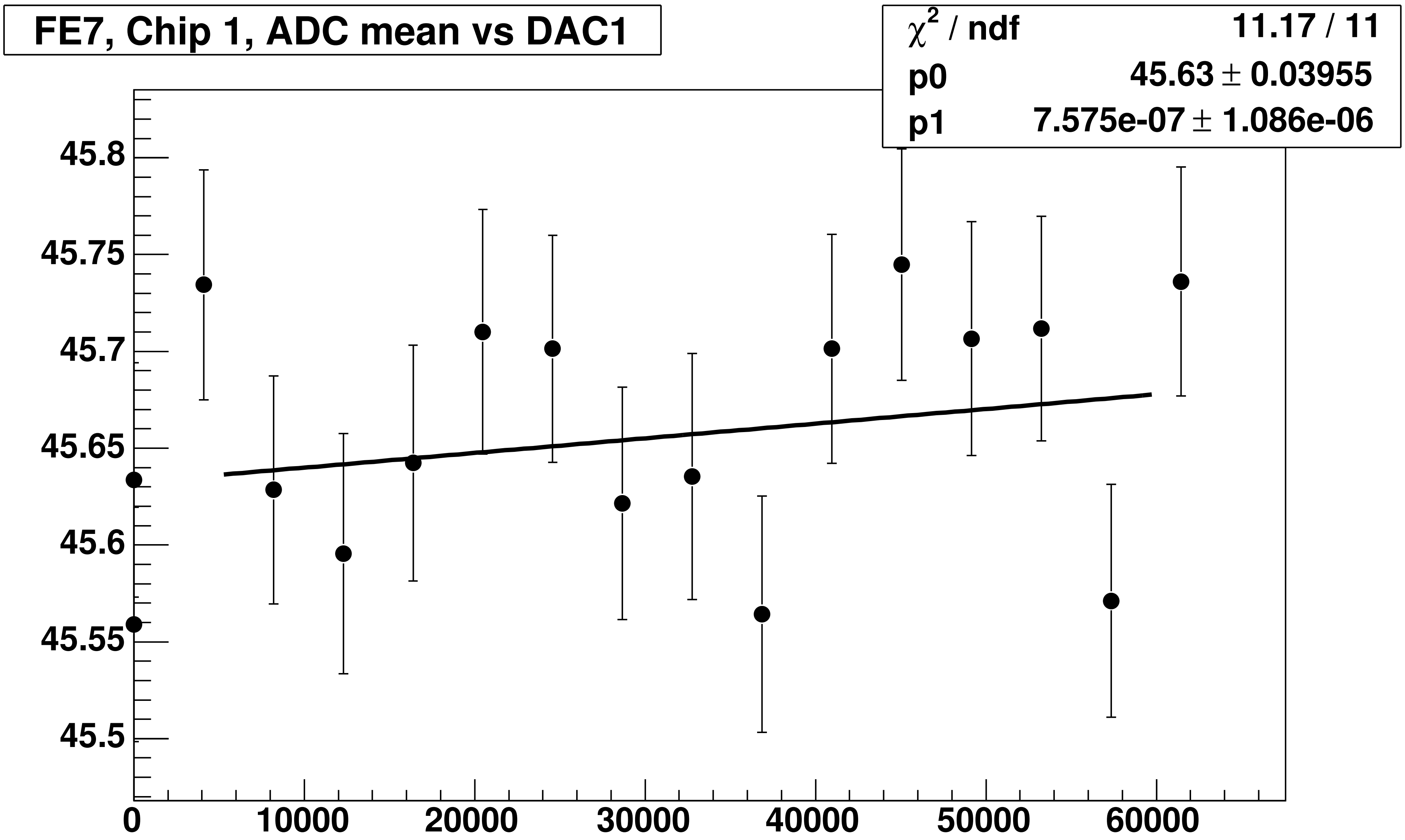

FE7, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE7, Chip 0, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

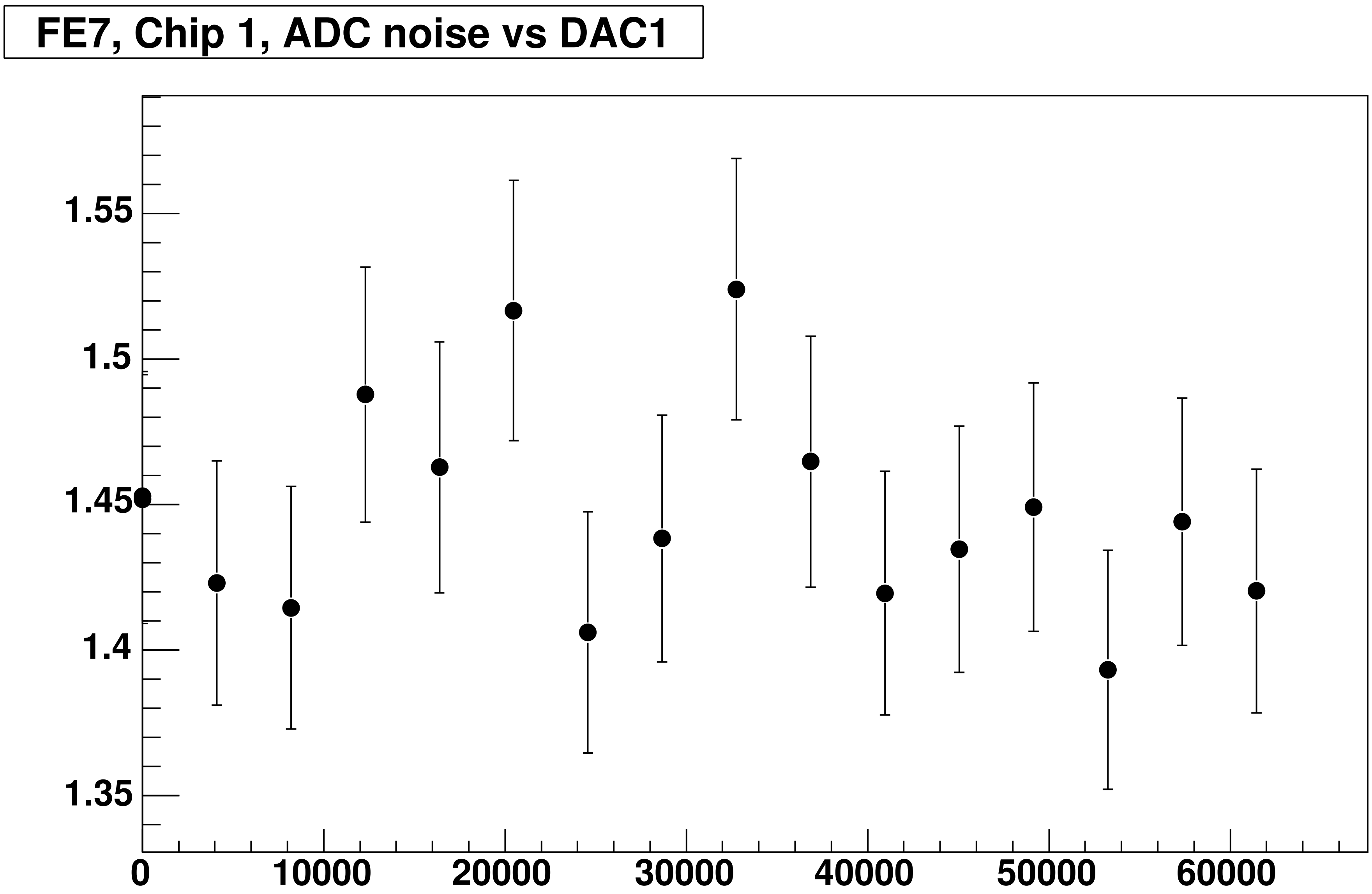

FE7, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2323 / 11
p0 49.03 ± 0.04121
p1 0.4501 ± 1.316e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

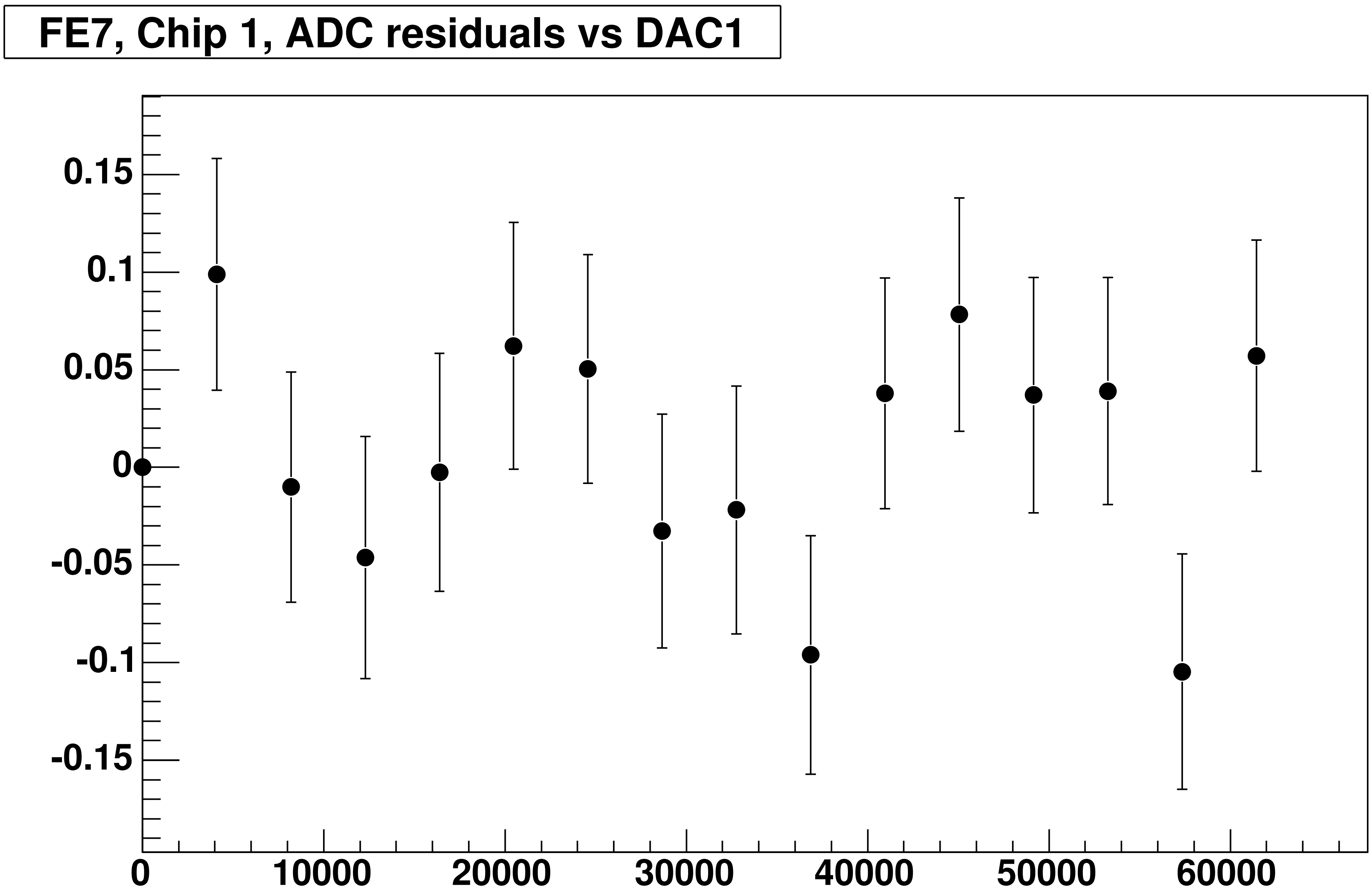

FE7, Chip 1, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

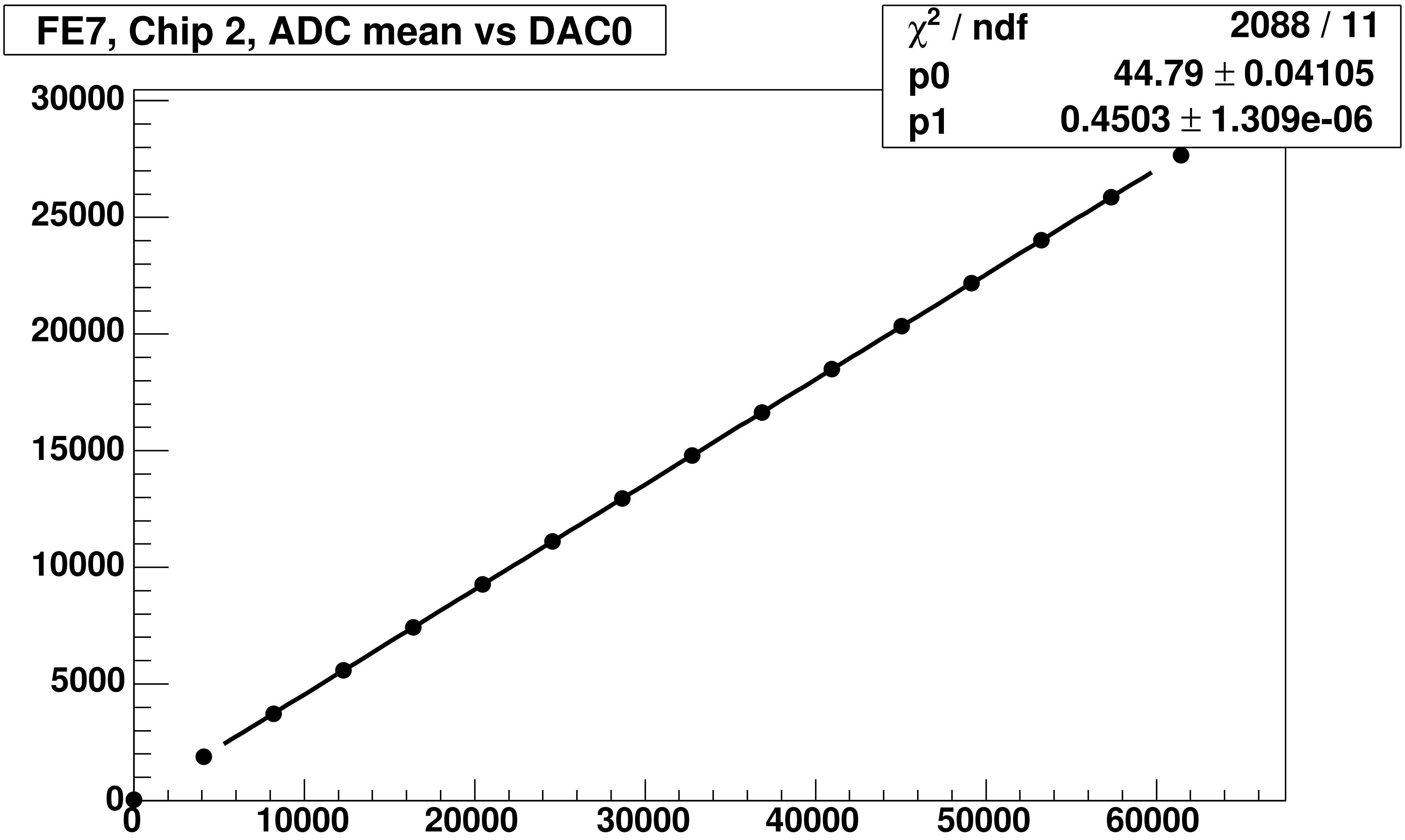

FE7, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



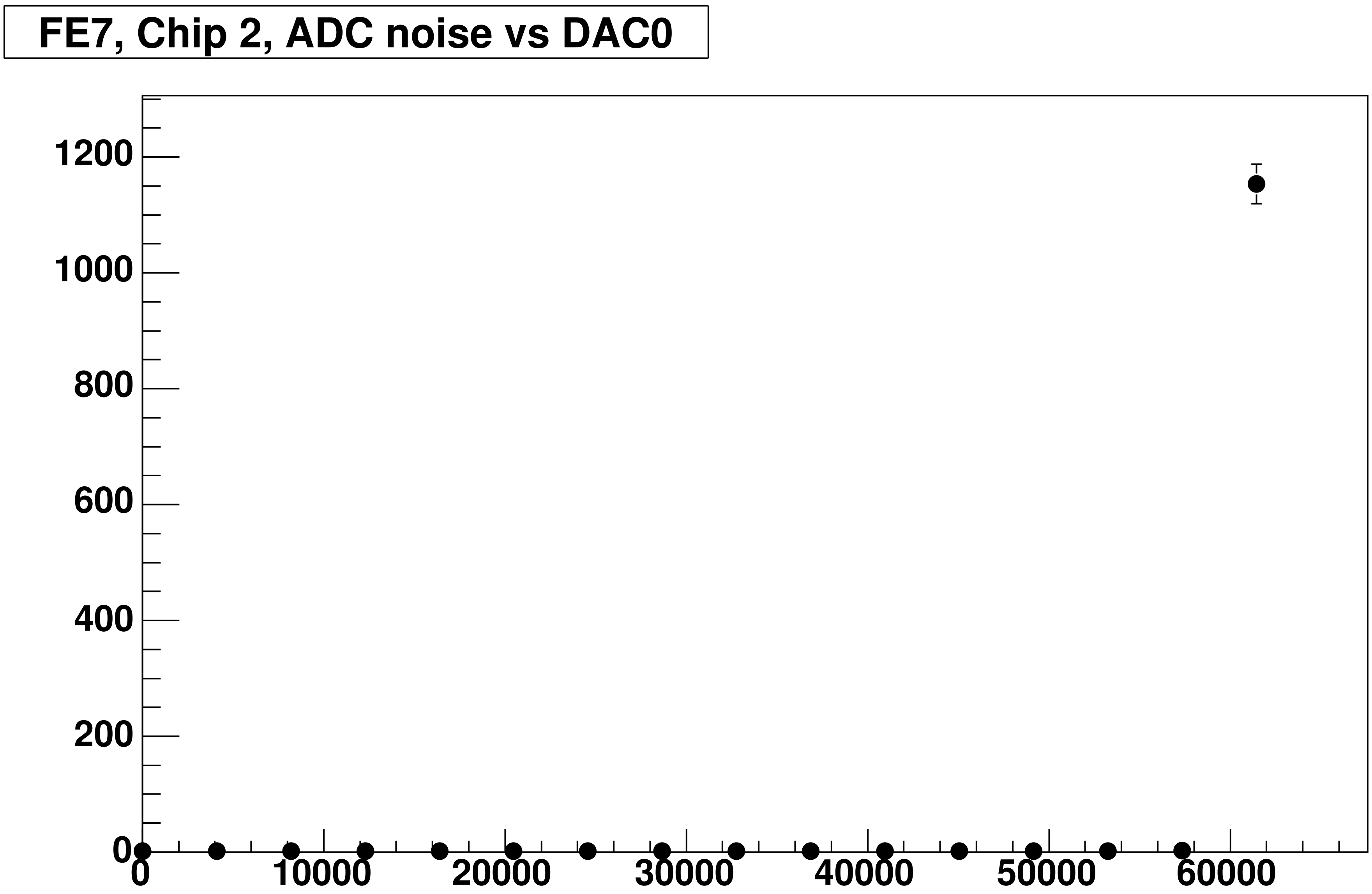
FE7, Chip 1, ADC mean vs DAC1
χ^2 / ndf 11.17 / 11
p0 45.63 ± 0.03955
p1 7.575e-07 ± 1.086e-06
45.8
45.75
45.7
45.65
45.6
45.55
45.5
0
10000
20000
30000
40000
50000
60000

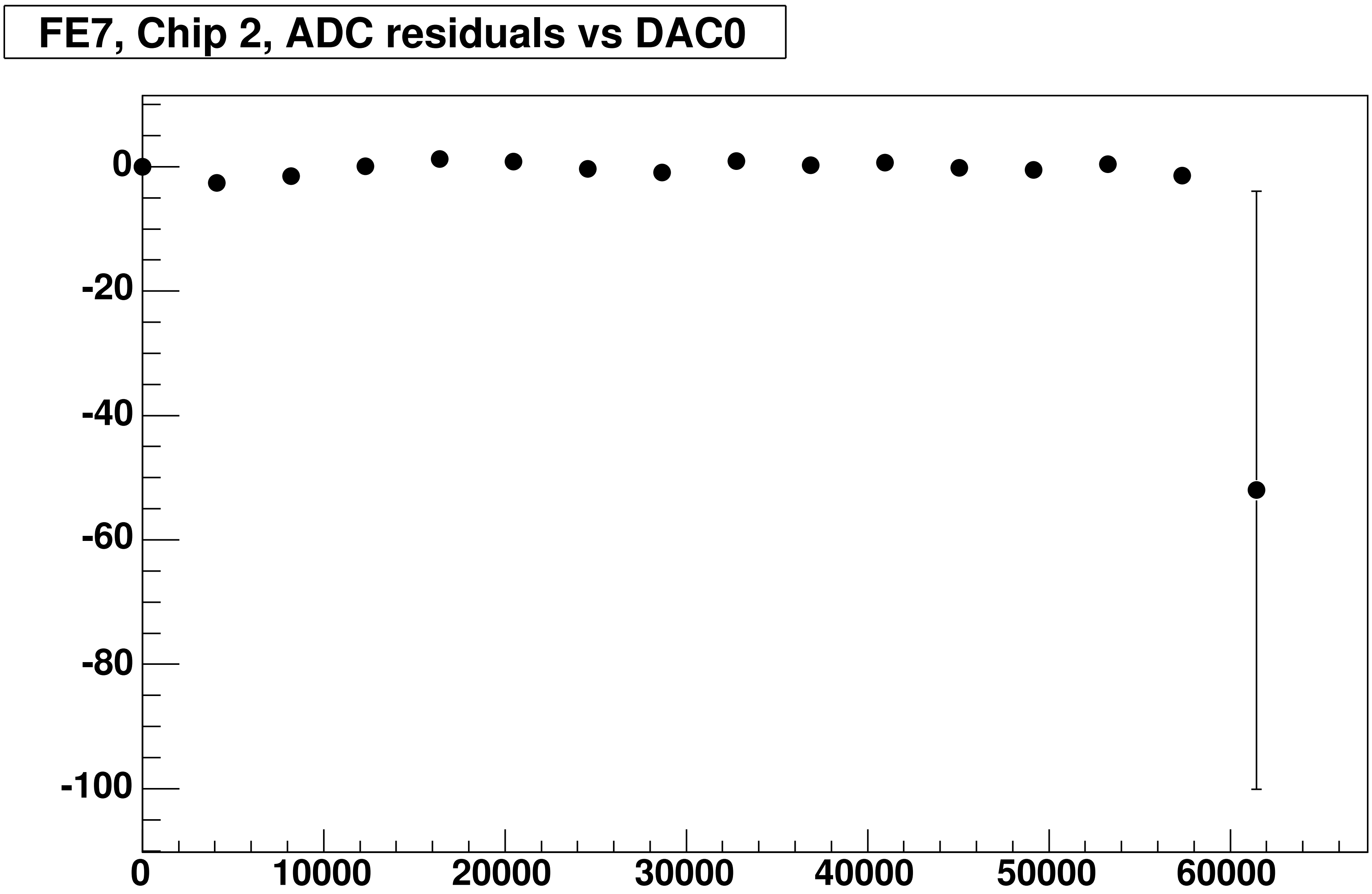

FE7, Chip 1, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

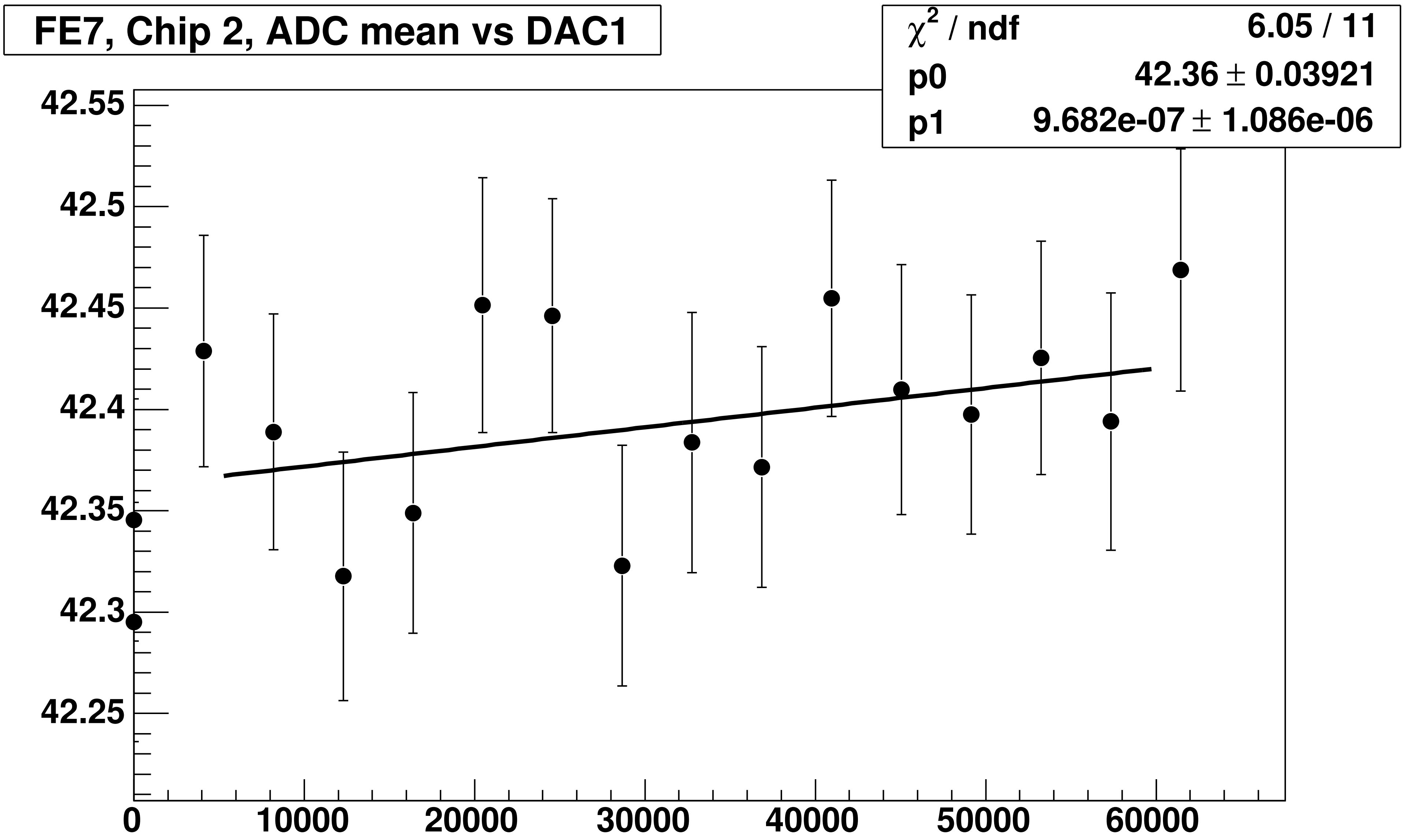

FE7, Chip 1, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

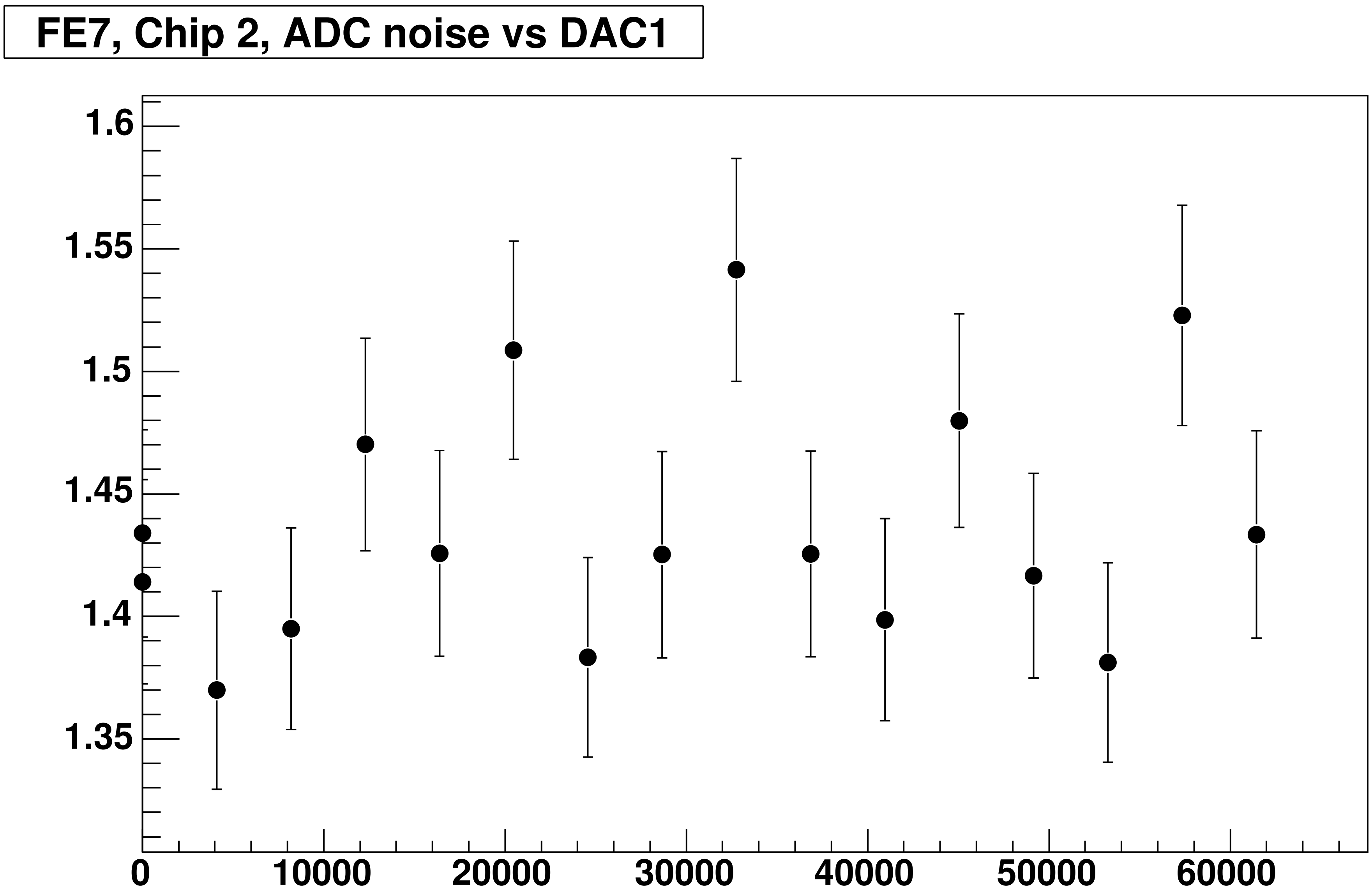


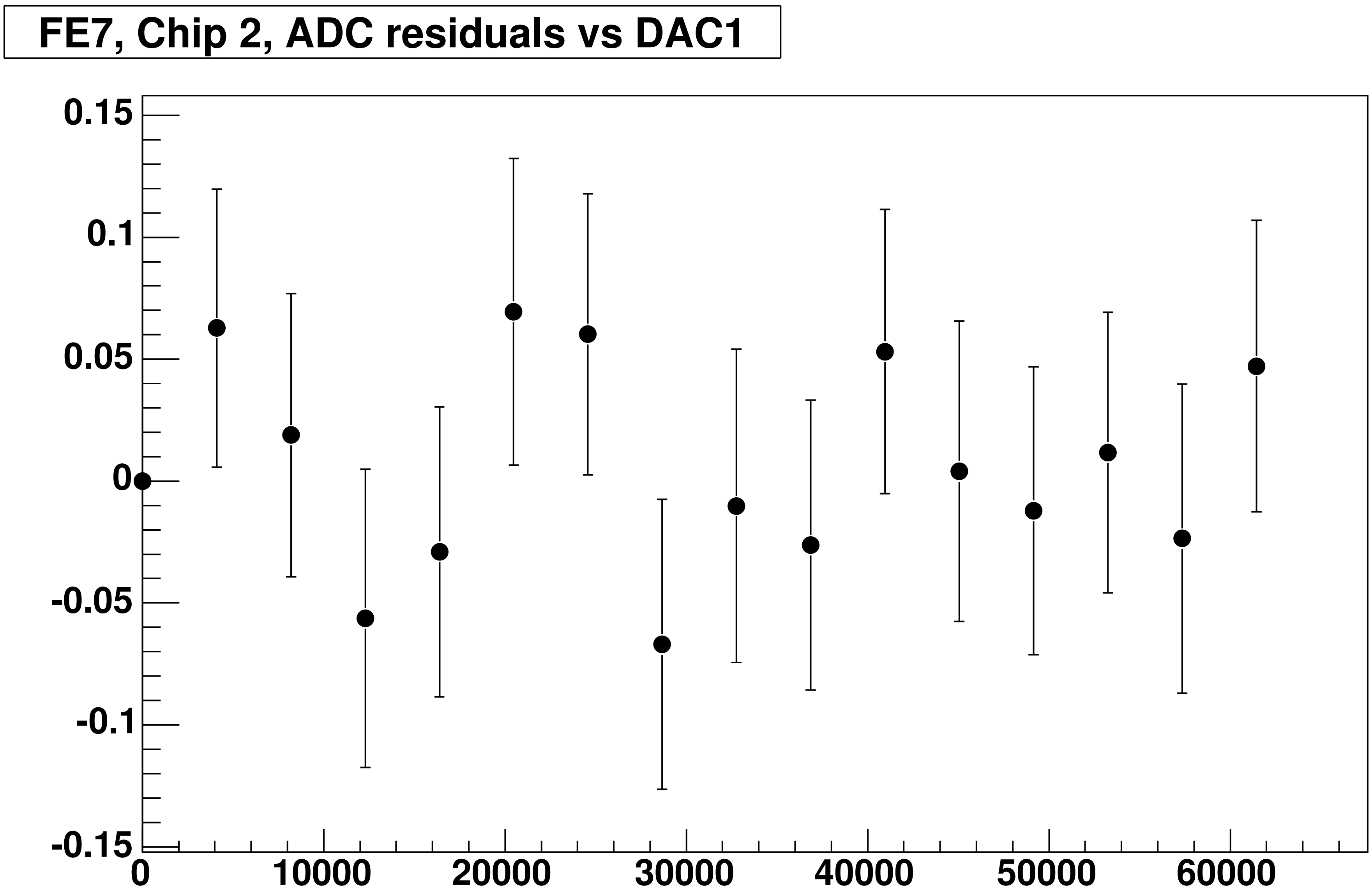
FE7, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2088 / 11
p0 44.79 ± 0.04105
p1 0.4503 ± 1.309e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

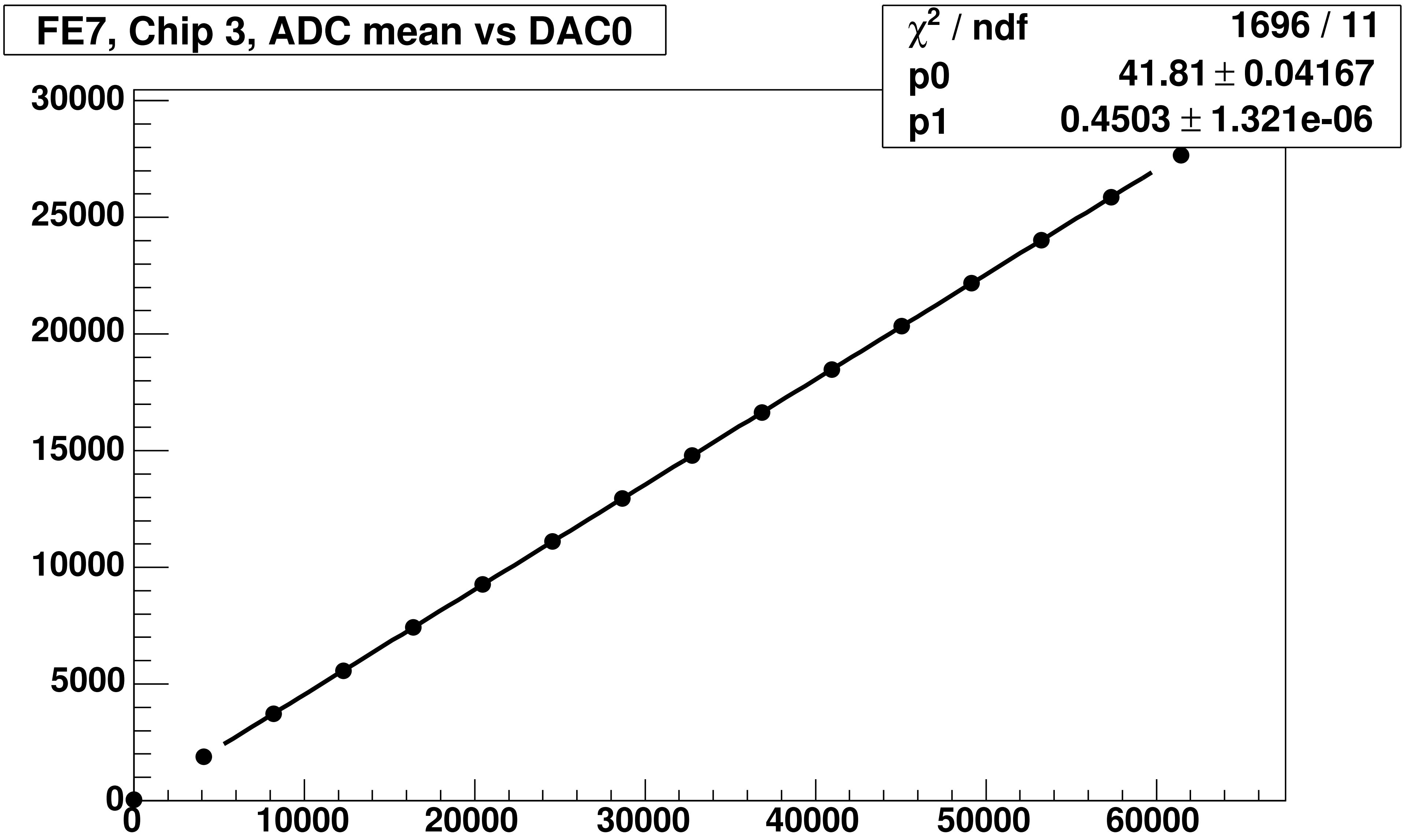

FE7, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

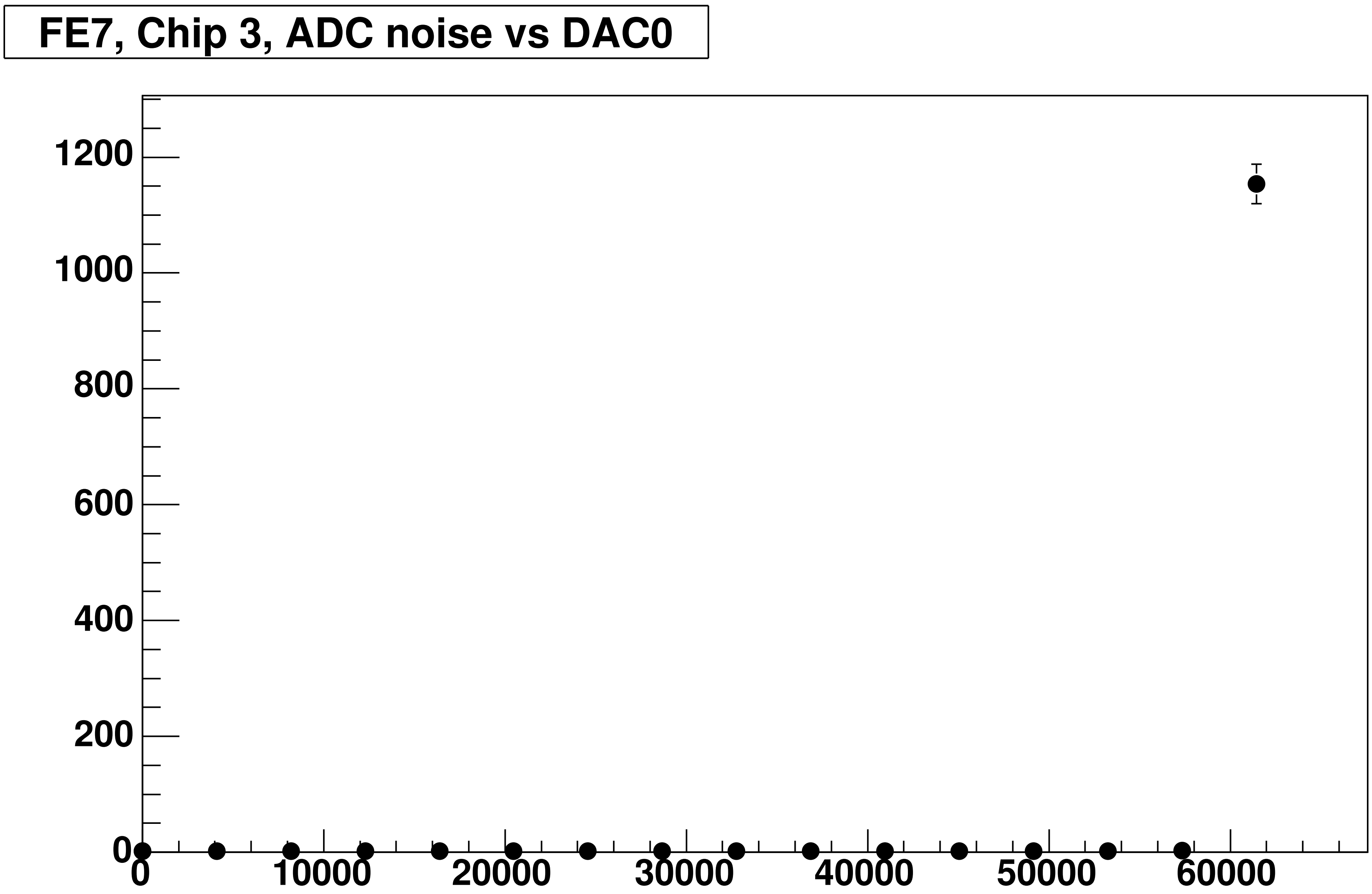

FE7, Chip 2, ADC mean vs DAC1
χ² / ndf 6.05 / 11
p0 42.36 ± 0.03921
p1 9.682e-07 ± 1.086e-06
42.55
42.5
42.45
42.4
42.35
42.3
42.25
0
10000
20000
30000
40000
50000
60000


FE7, 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


FE7, Chip 2, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

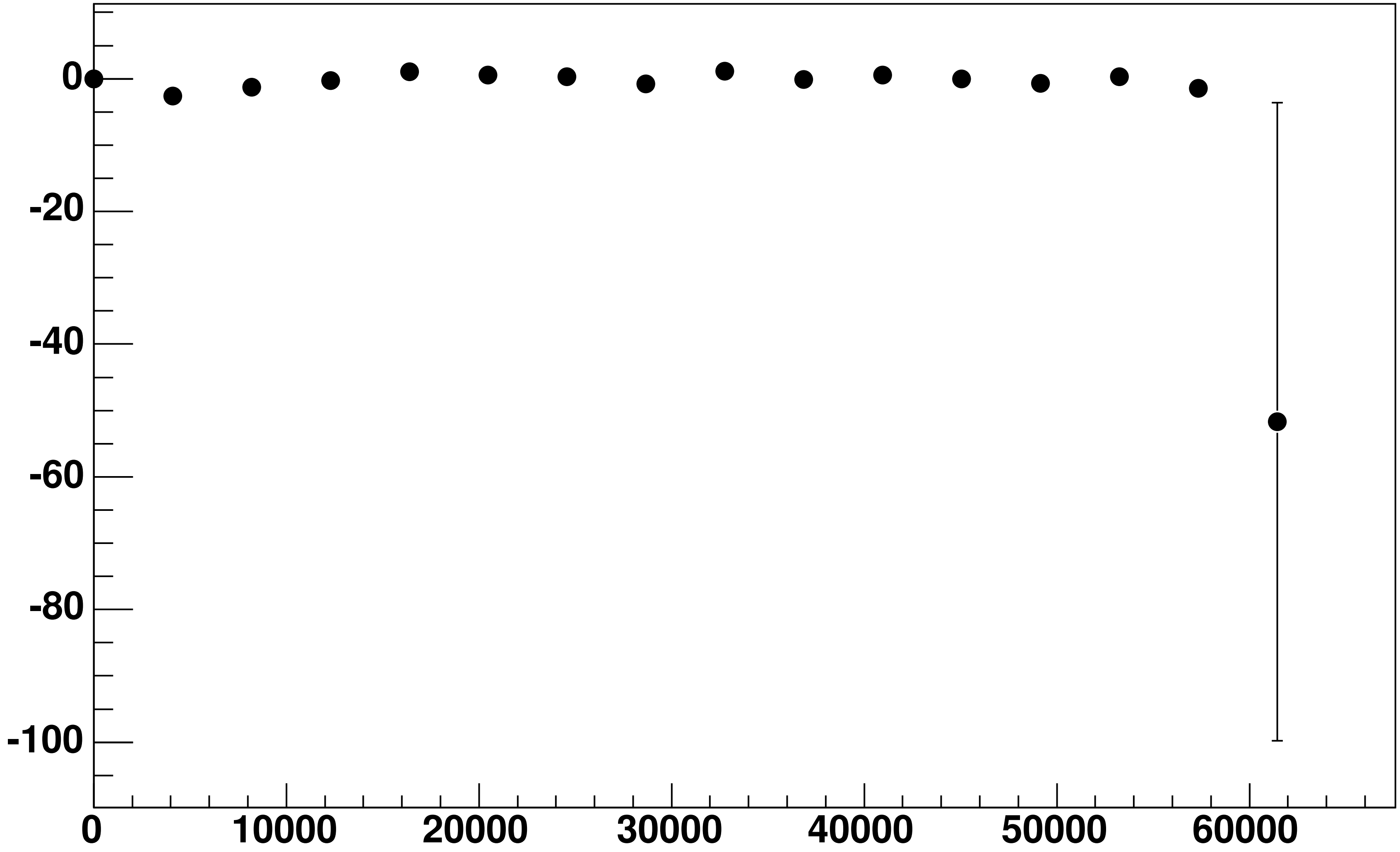


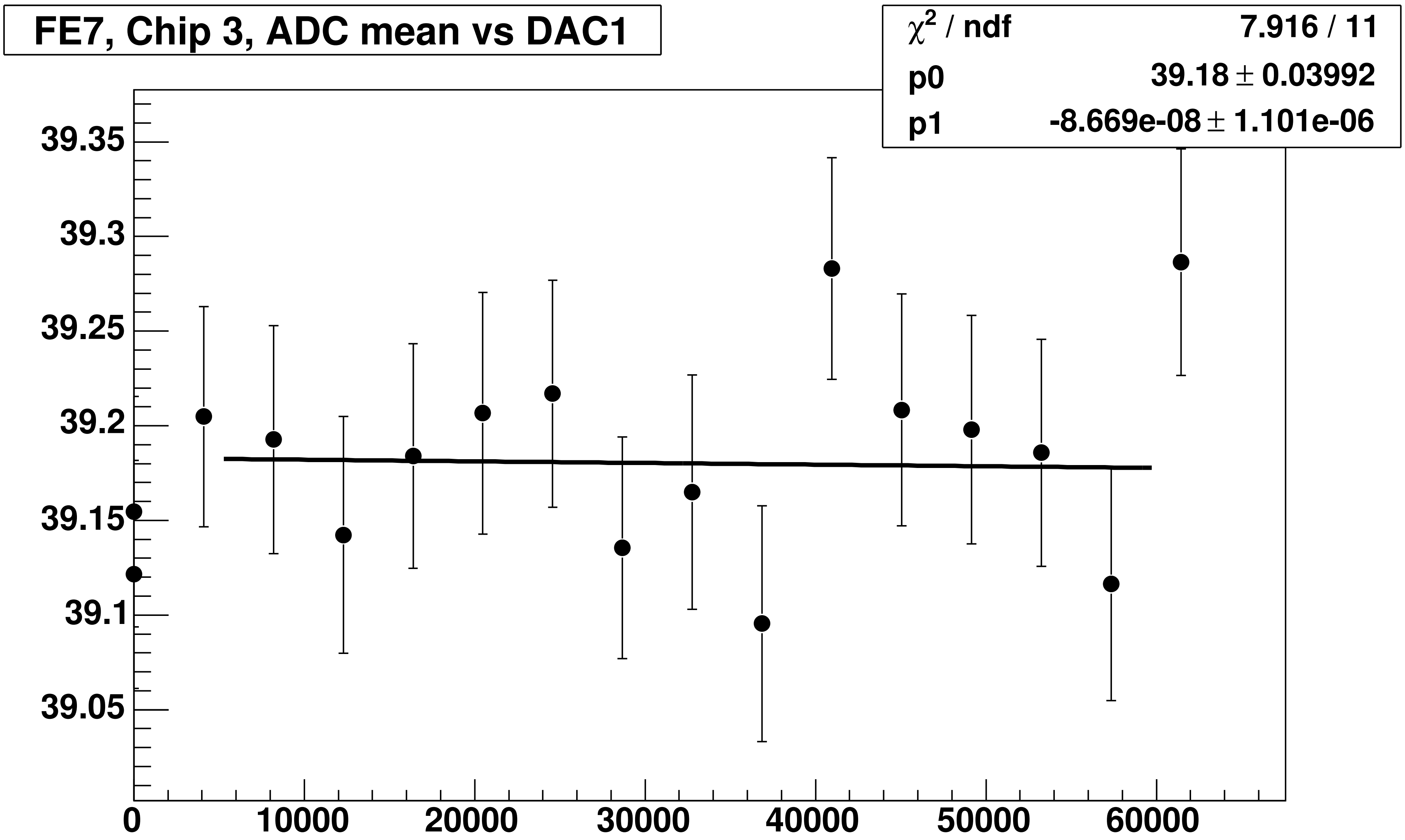
FE7, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1696 / 11
p0 41.81 ± 0.04167
p1 0.4503 ± 1.321e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

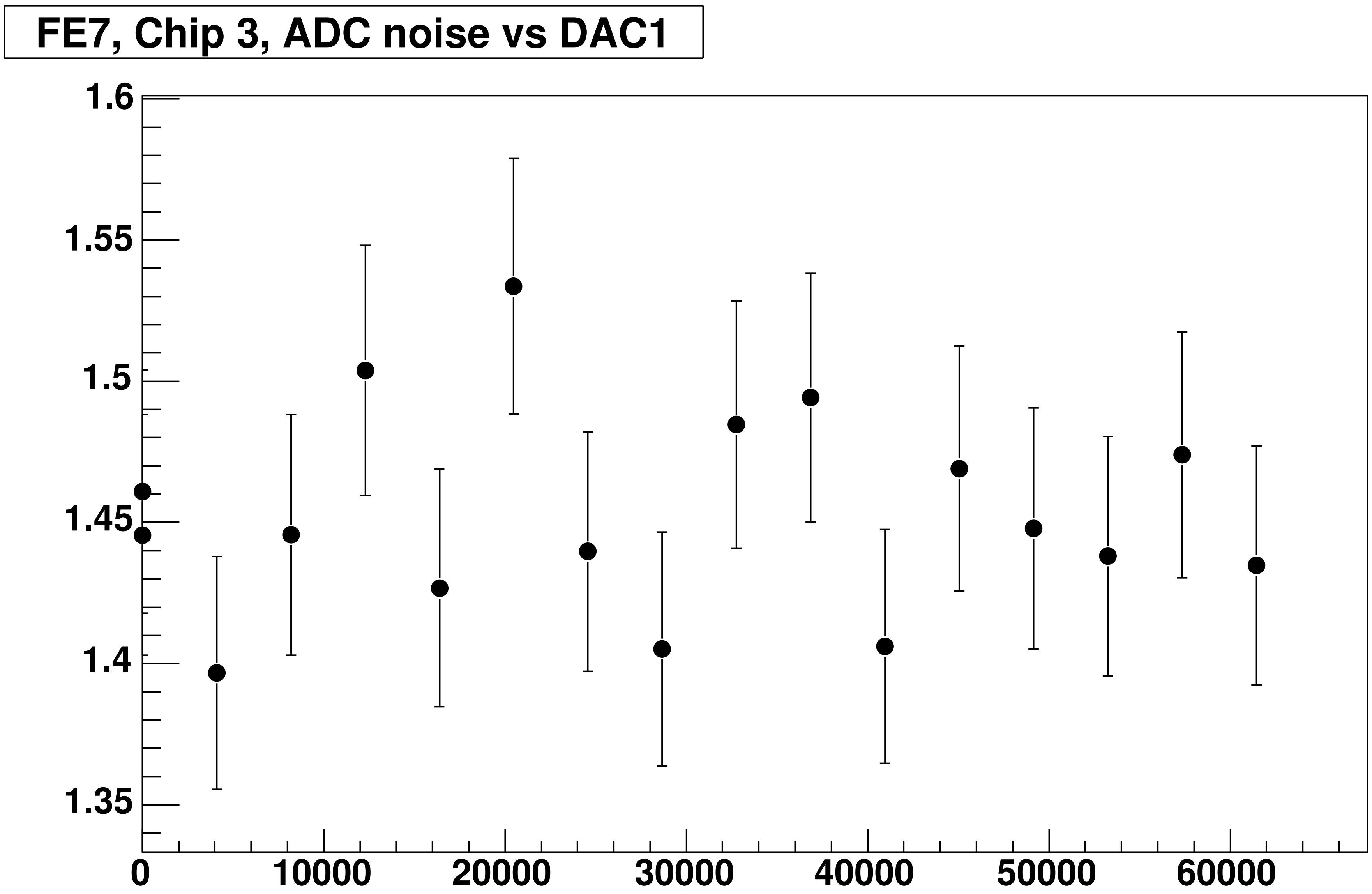


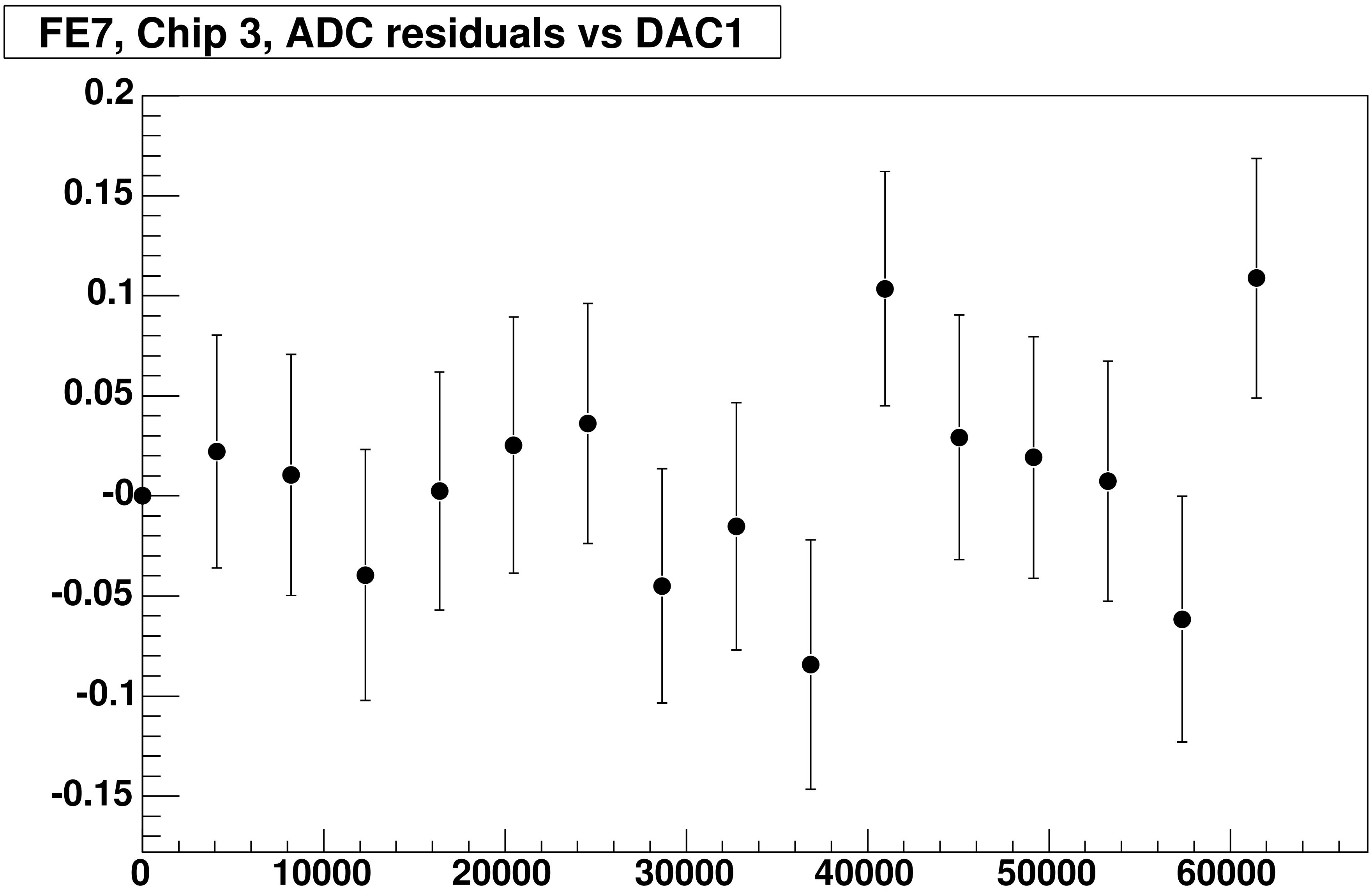
FE7, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

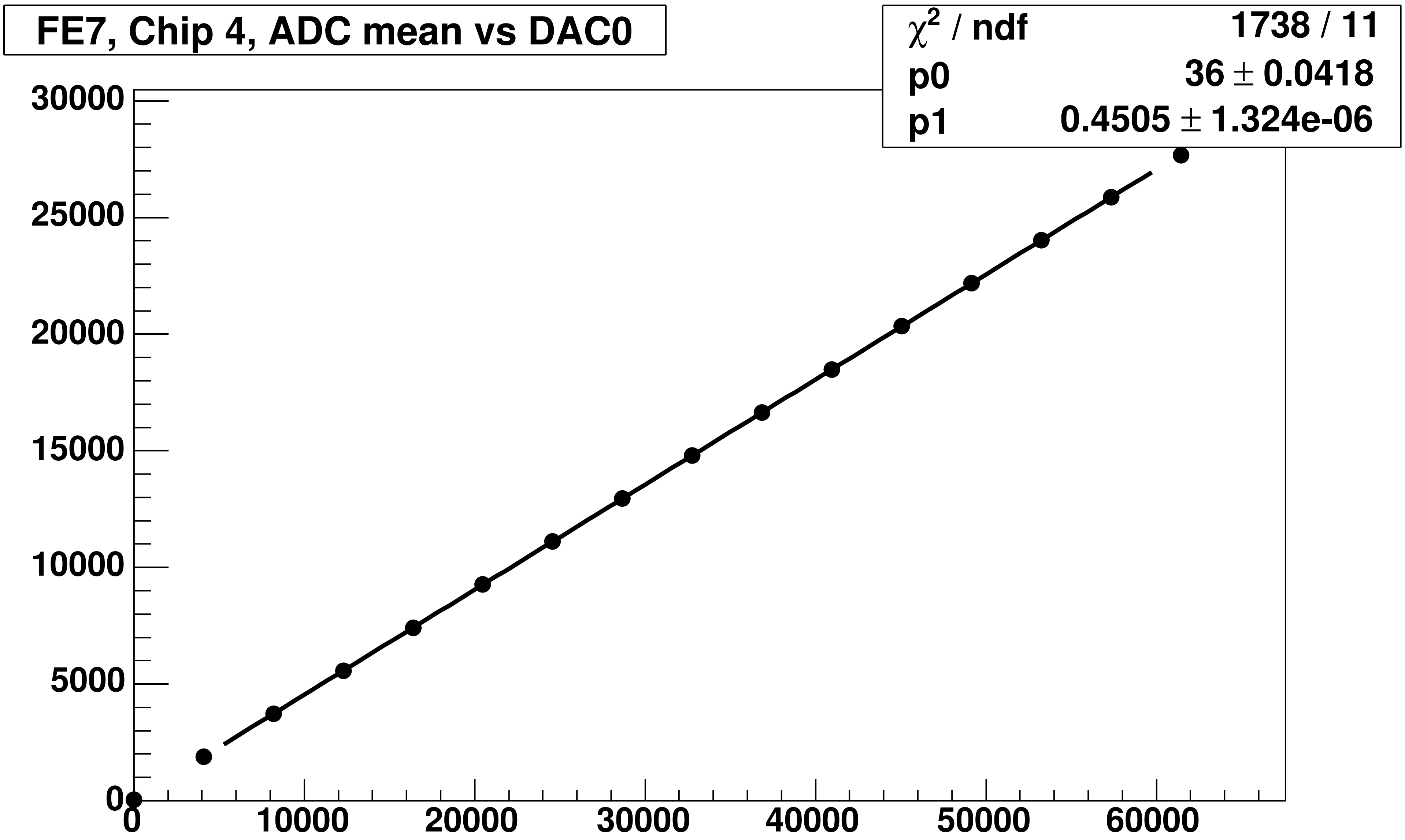
FE7, Chip 3, ADC residuals vs DAC0

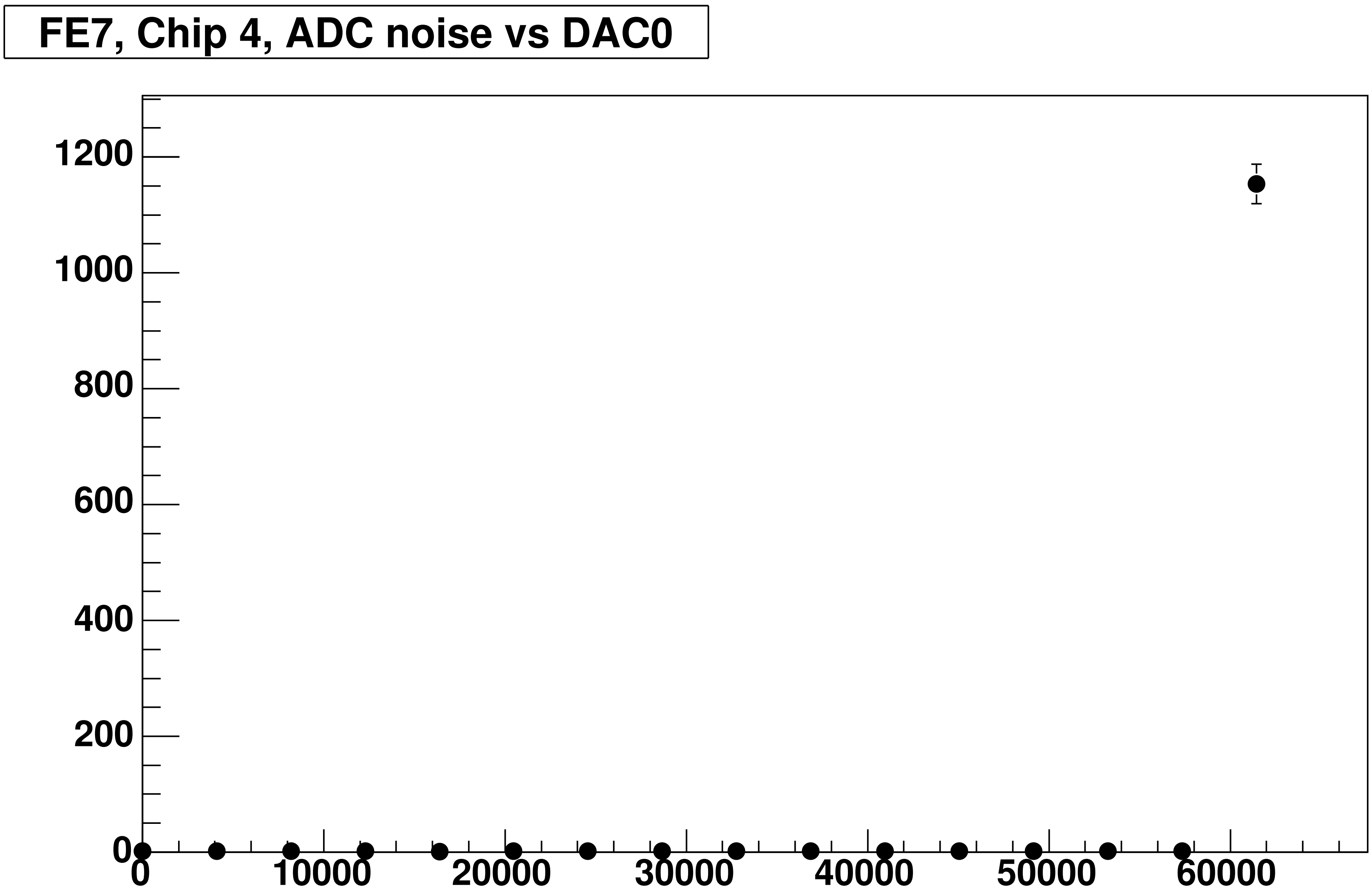



FE7, Chip 3, ADC mean vs DAC1
χ^2 / ndf 7.916 / 11
p0 39.18 ± 0.03992
p1 -8.669e-08 ± 1.101e-06
39.35
39.3
39.25
39.2
39.15
39.1
39.05
0
10000
20000
30000
40000
50000
60000

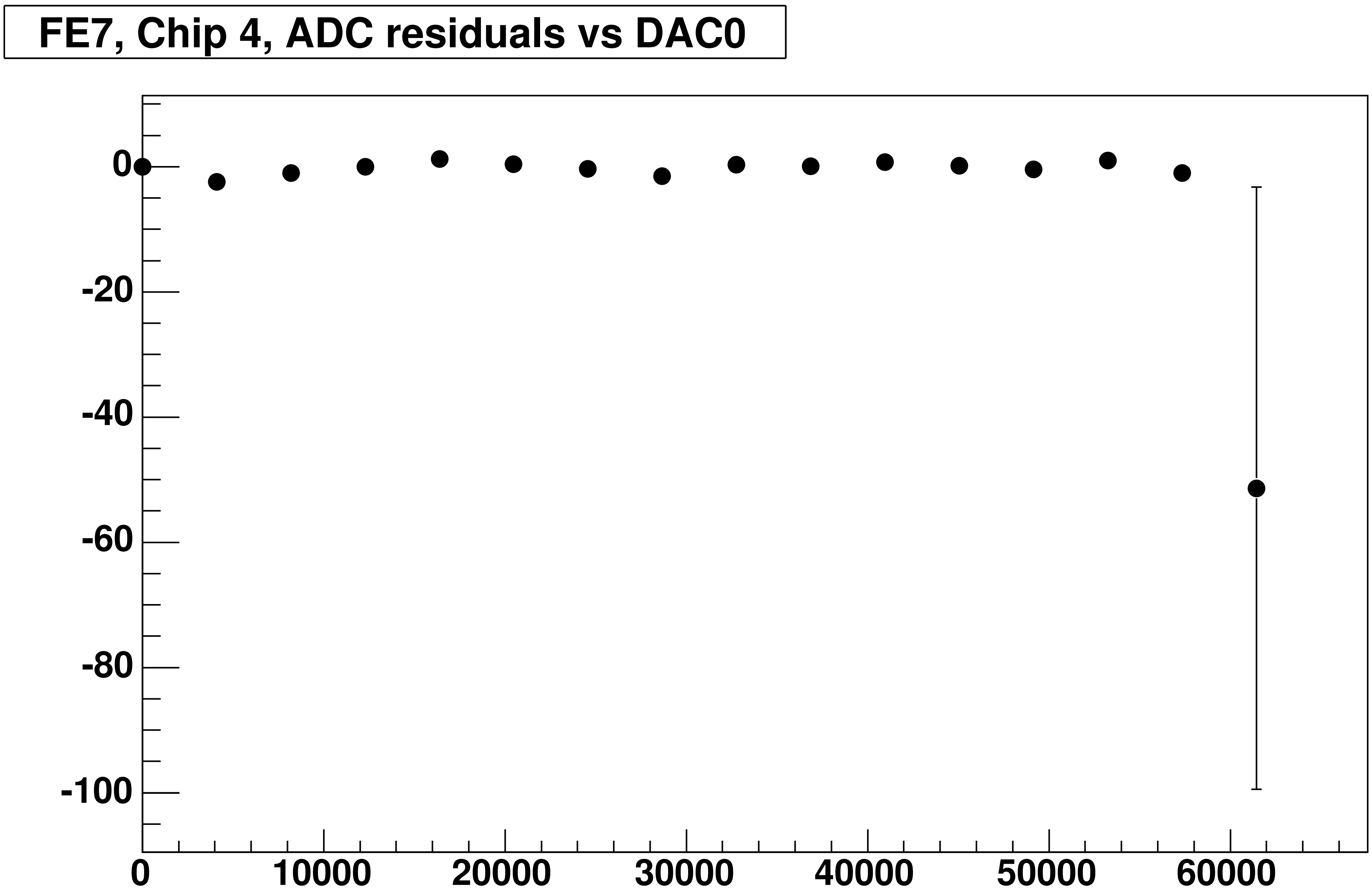

FE7, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

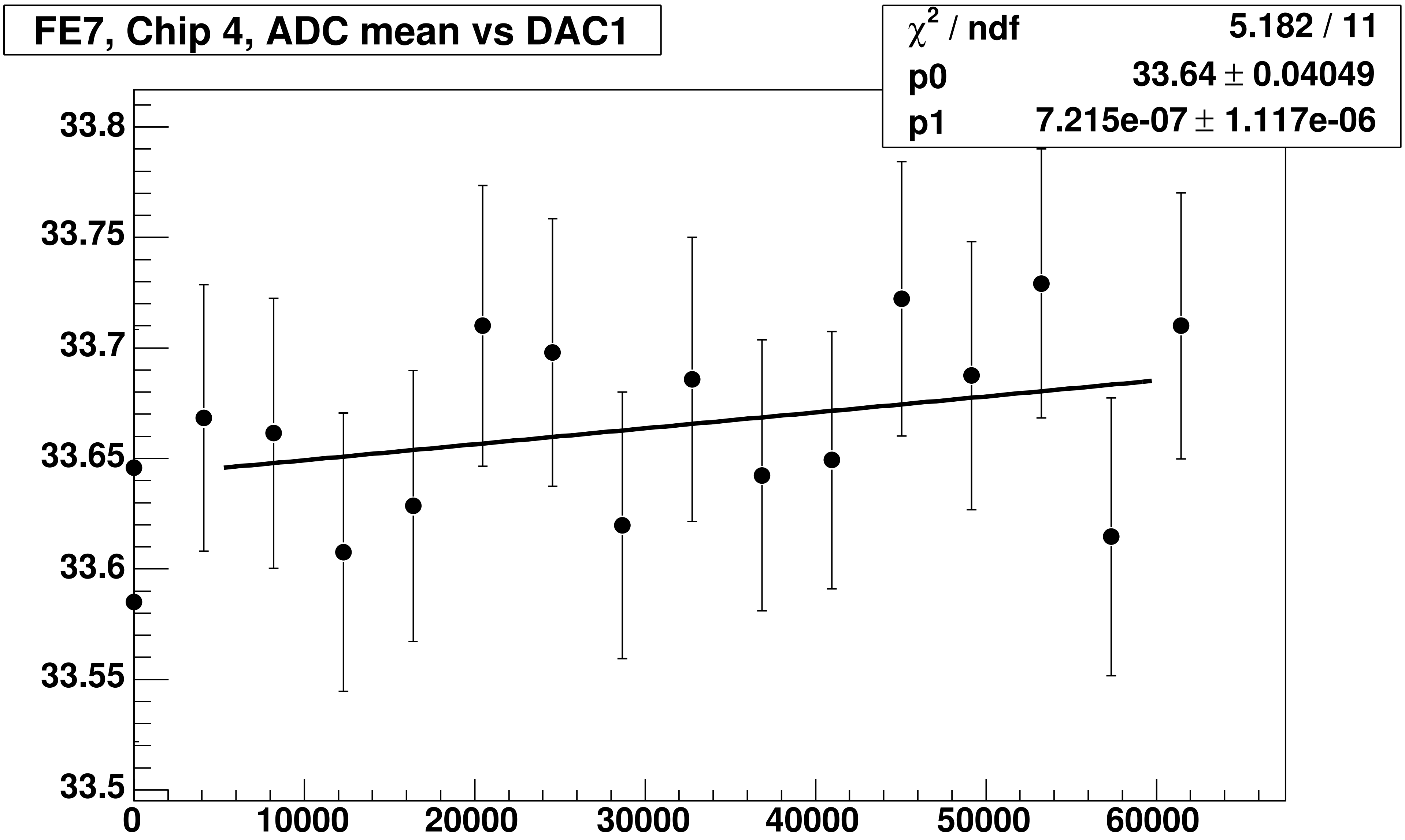

FE7, Chip 3, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

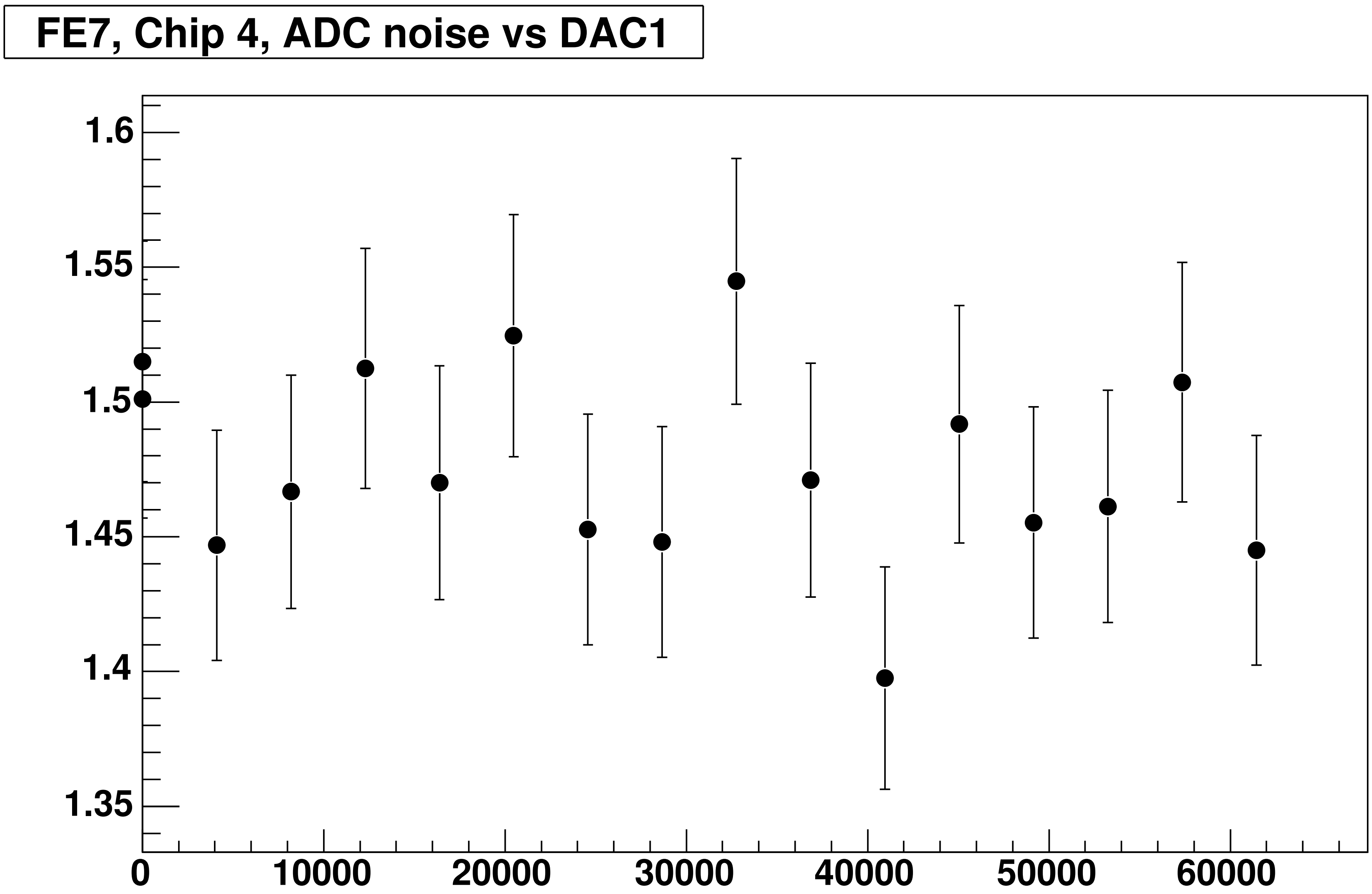

FE7, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1738 / 11
p0 36 ± 0.0418
p1 0.4505 ± 1.324e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

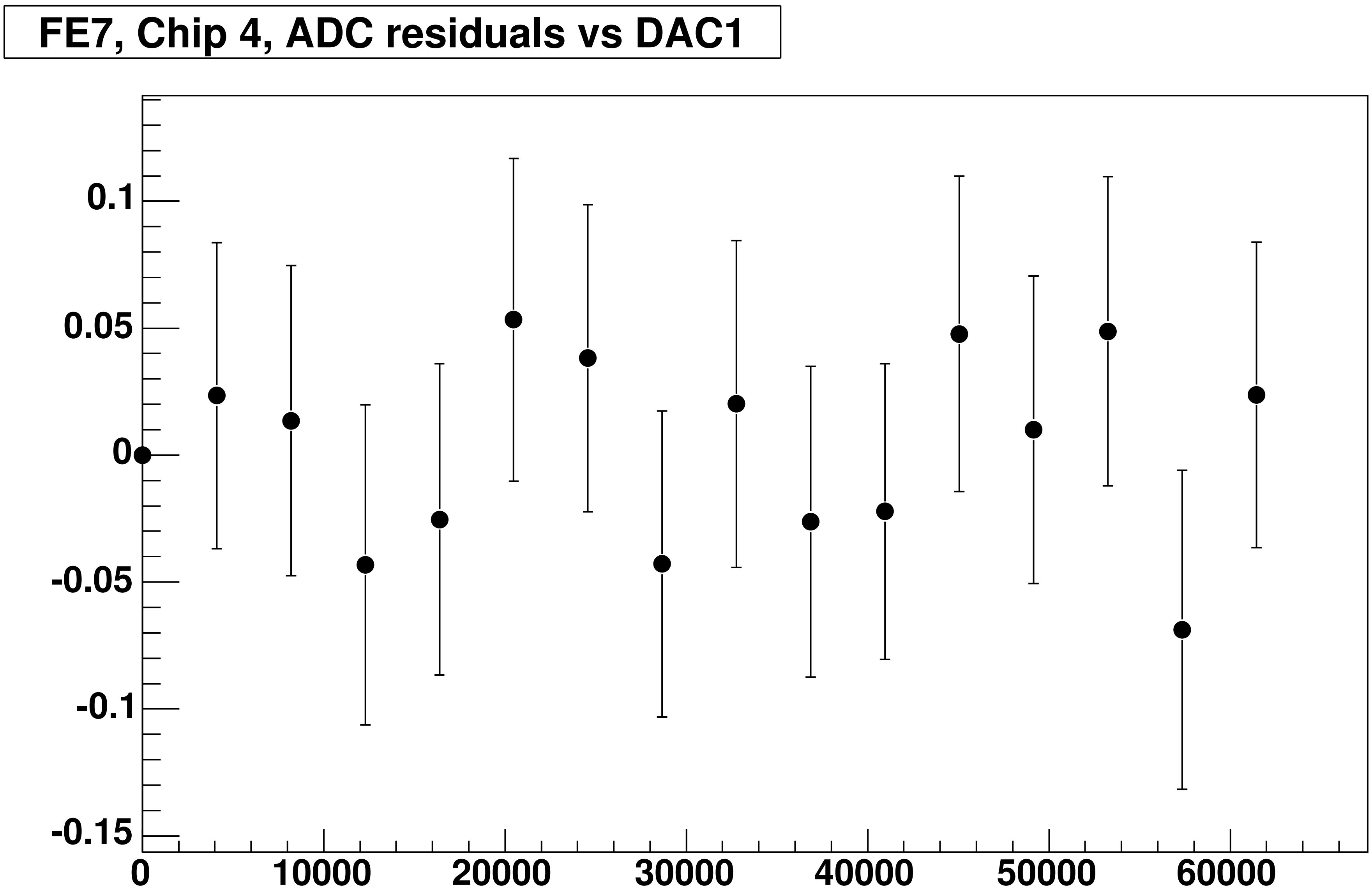


FE7, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

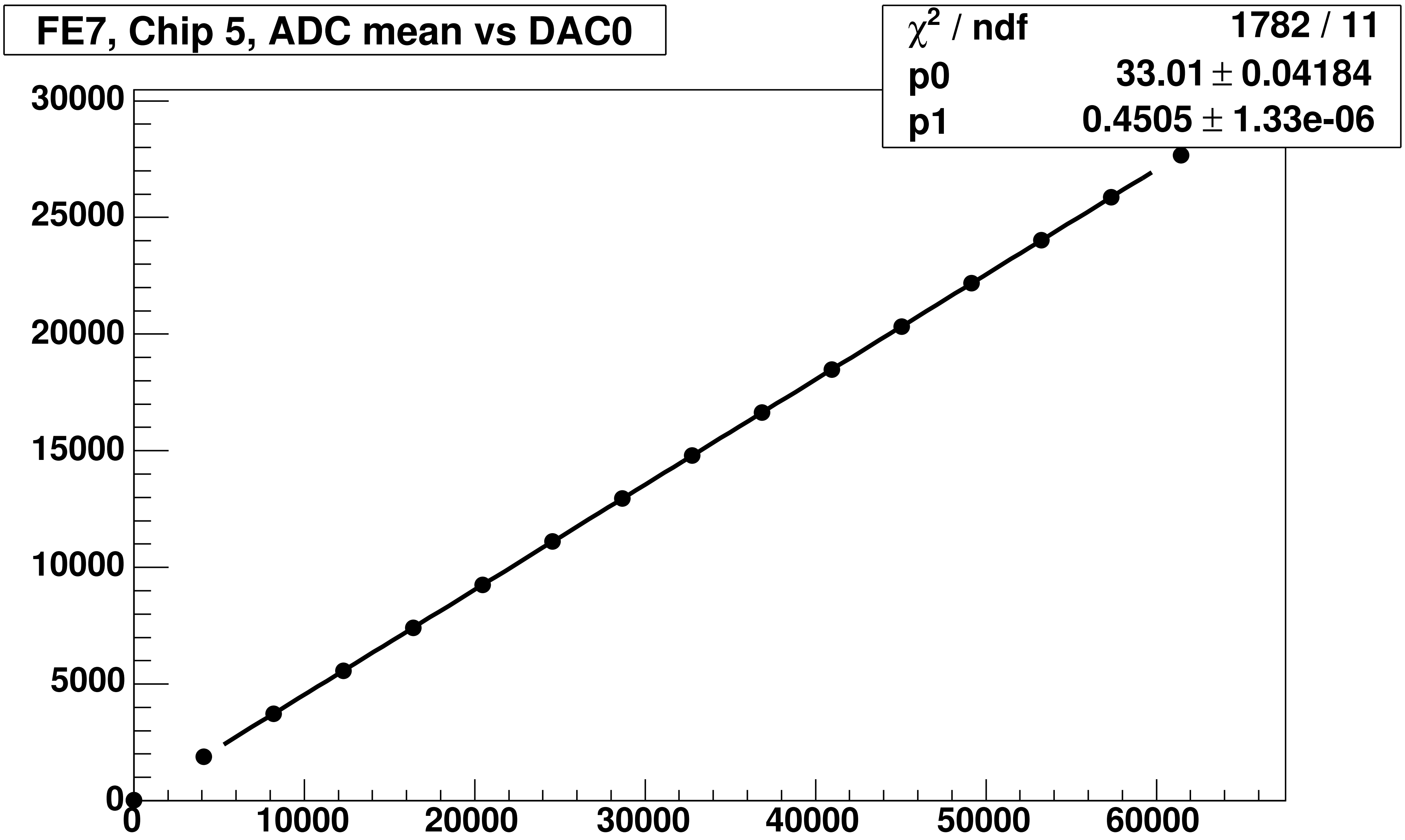

FE7, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC mean vs DAC1
χ^2 / ndf 5.182 / 11
p0 33.64 ± 0.04049
p1 7.215e-07 ± 1.117e-06
33.8
33.75
33.7
33.65
33.6
33.55
33.5
0
10000
20000
30000
40000
50000
60000

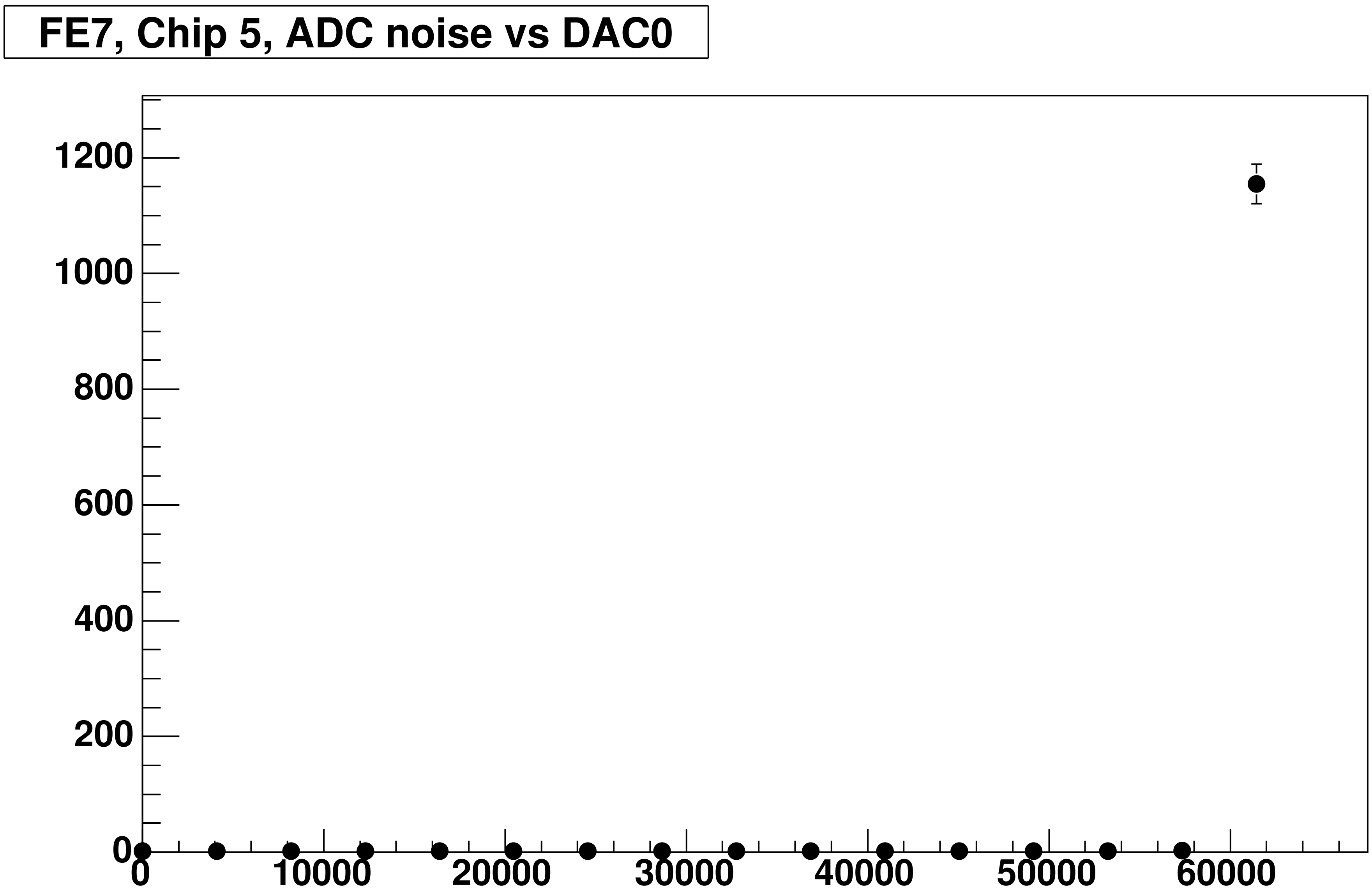

FE7, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



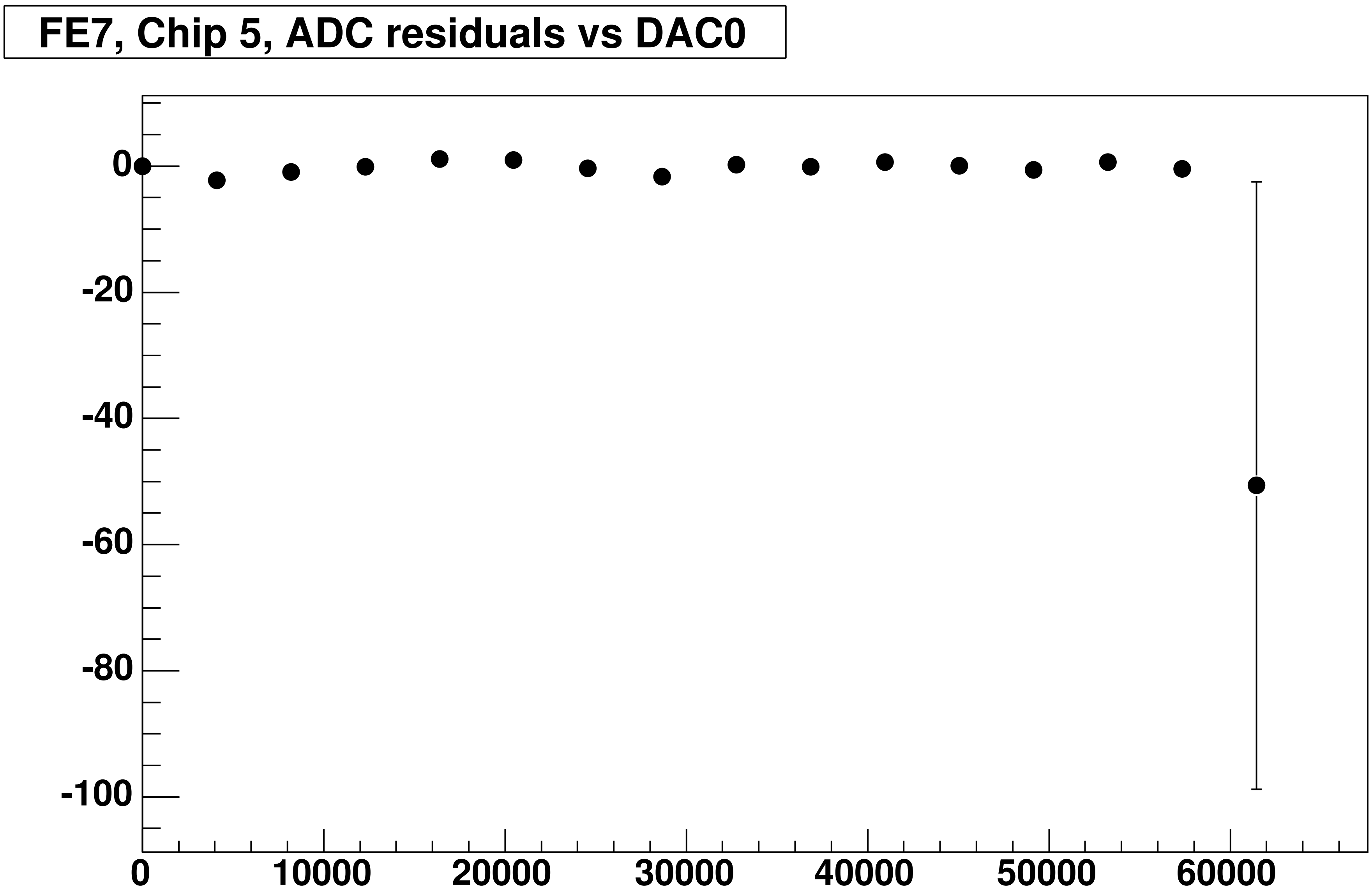
FE7, Chip 4, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

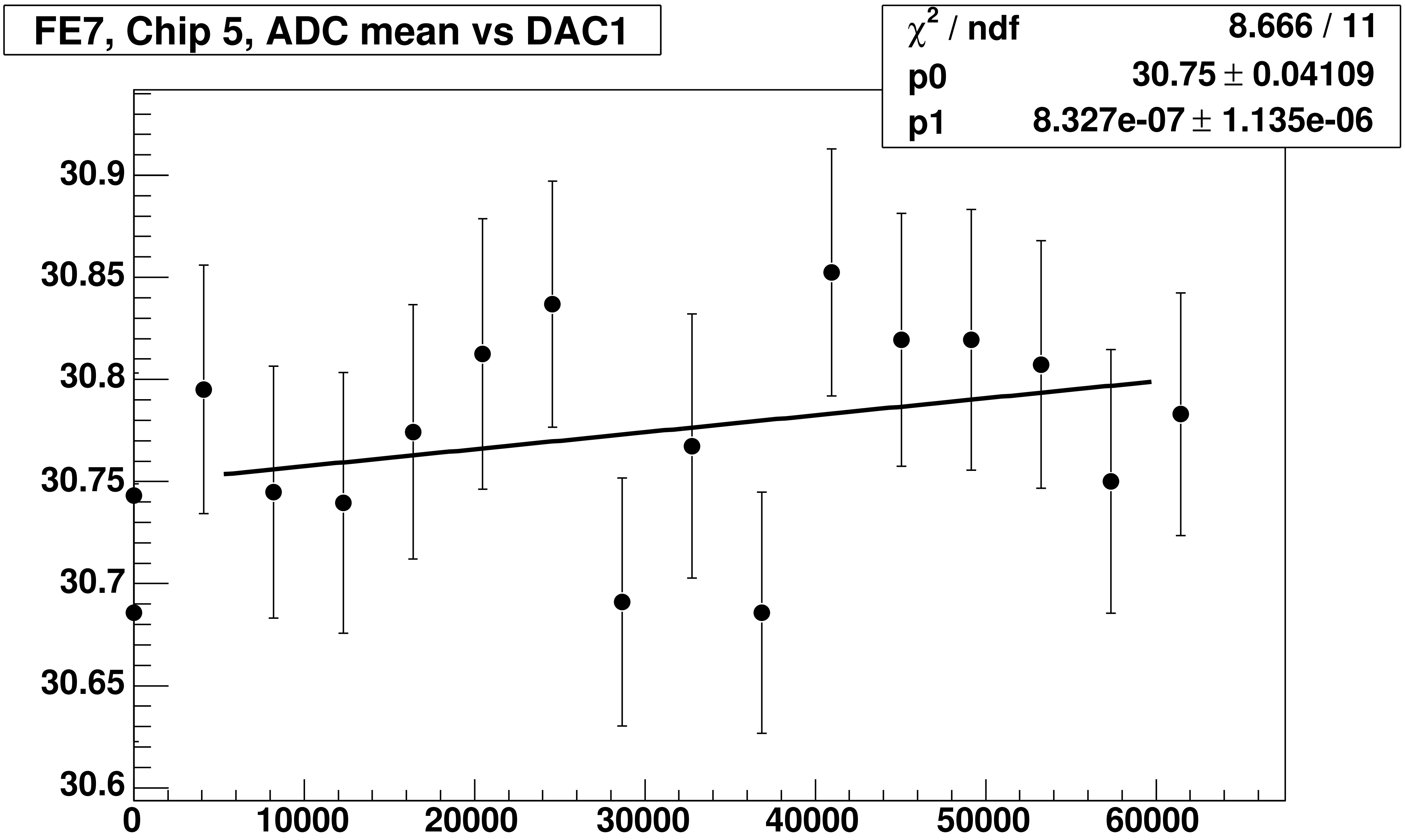


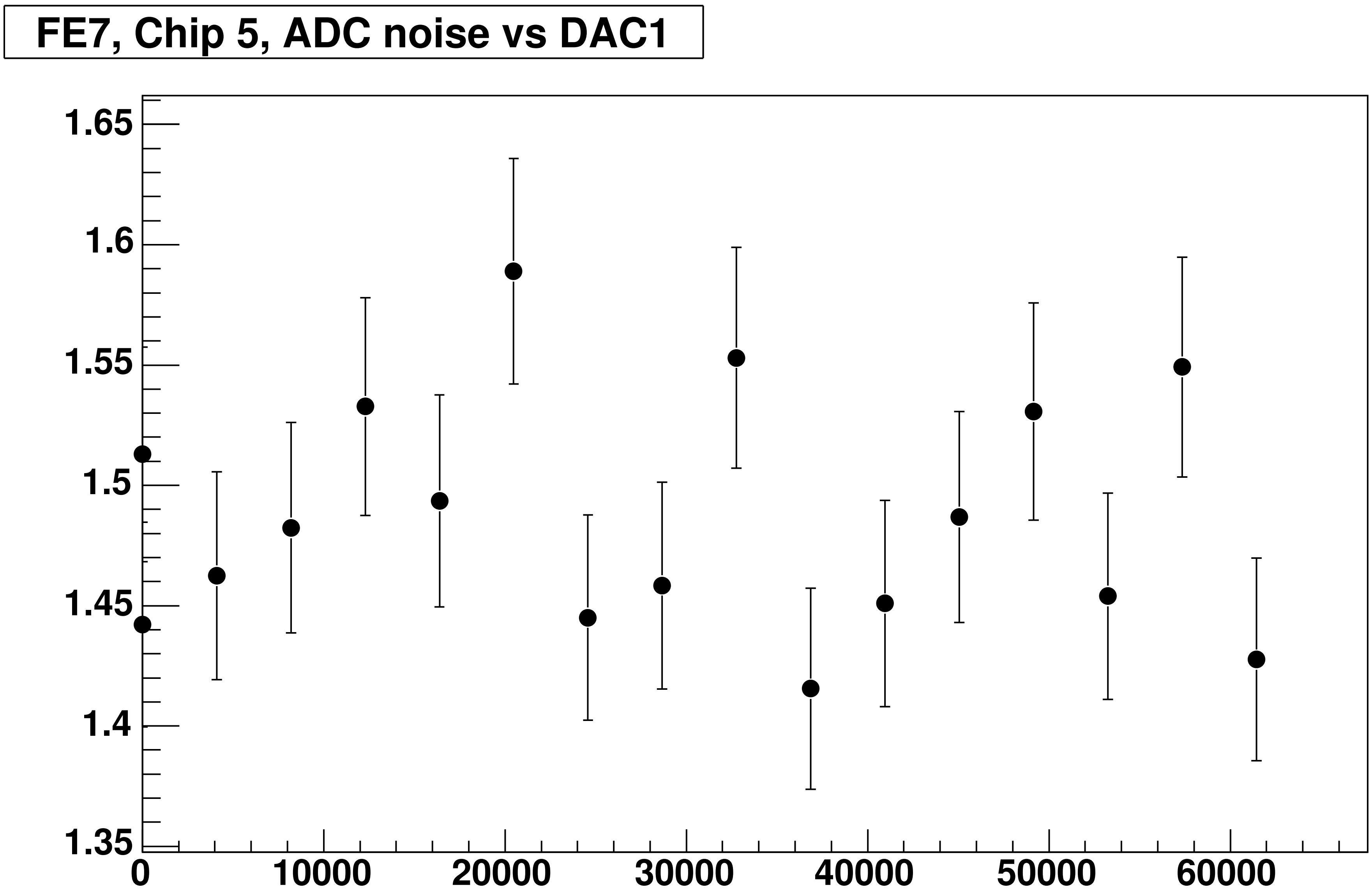
FE7, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1782 / 11
p0 33.01 ± 0.04184
p1 0.4505 ± 1.33e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



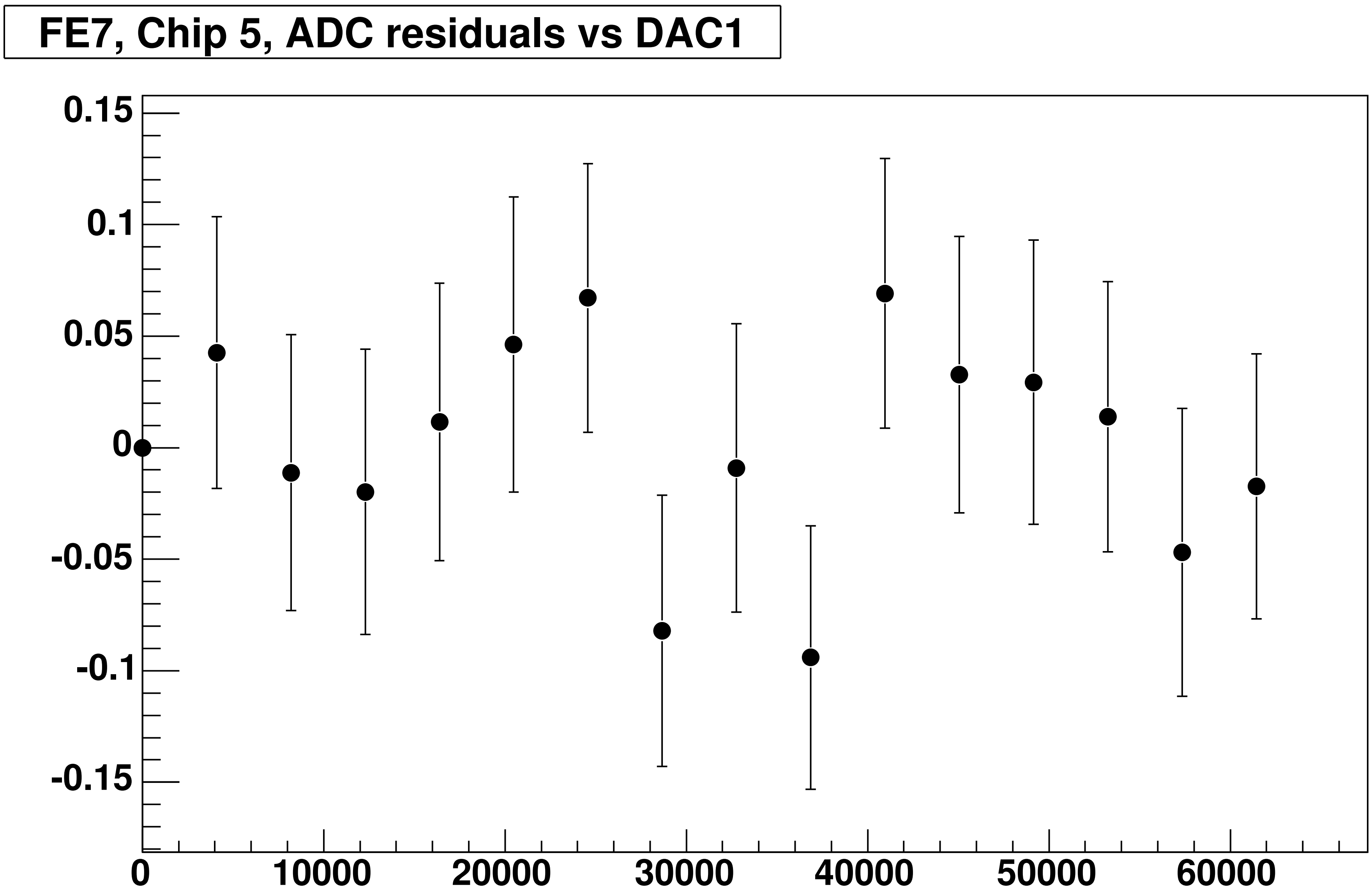
FE7, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

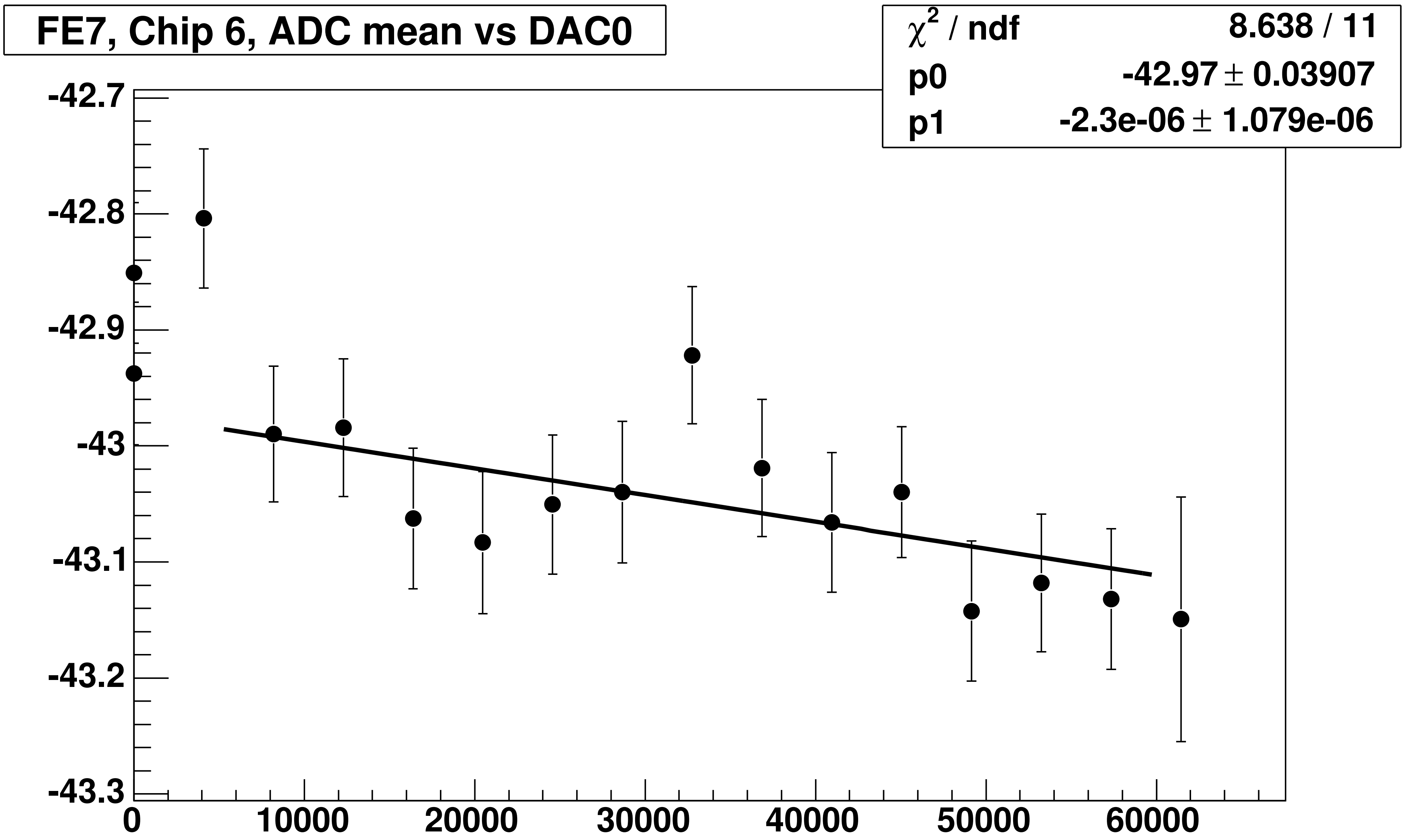

FE7, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE7, Chip 5, ADC mean vs DAC1
χ^2 / ndf 8.666 / 11
p0 30.75 ± 0.04109
p1 8.327e-07 ± 1.135e-06
30.9
30.85
30.8
30.75
30.7
30.65
30.6
0
10000
20000
30000
40000
50000
60000

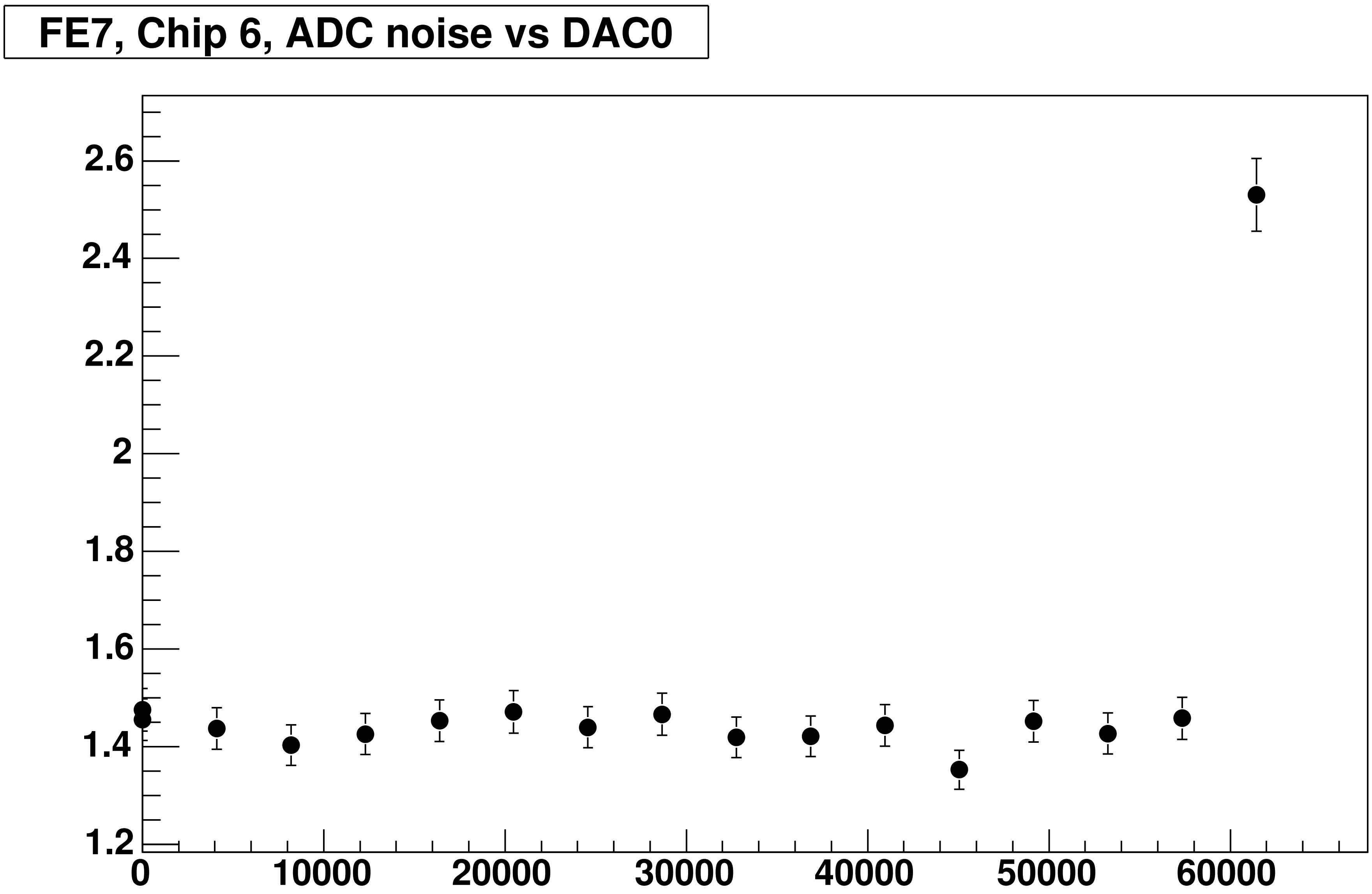


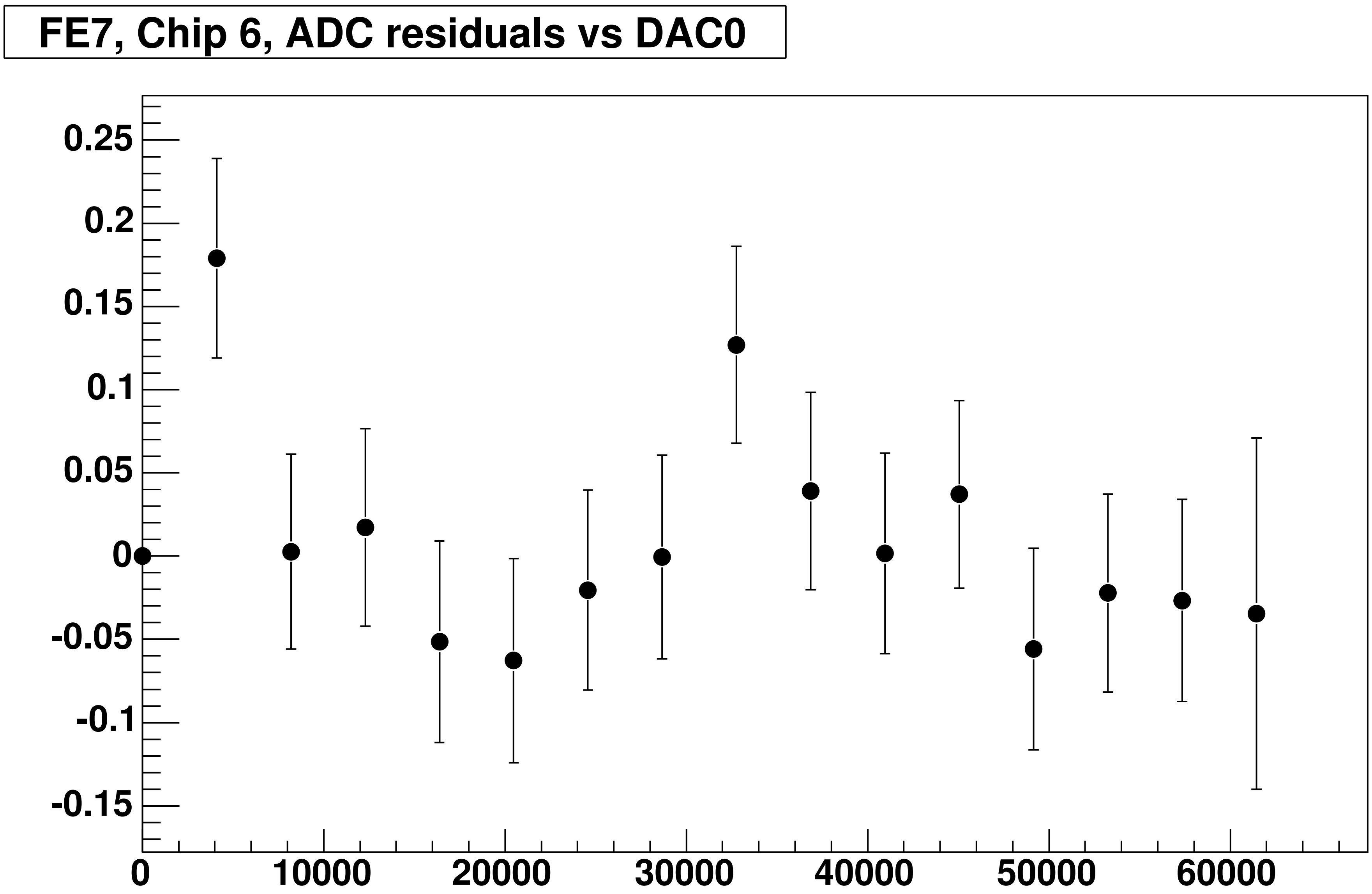
FE7, Chip 5, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

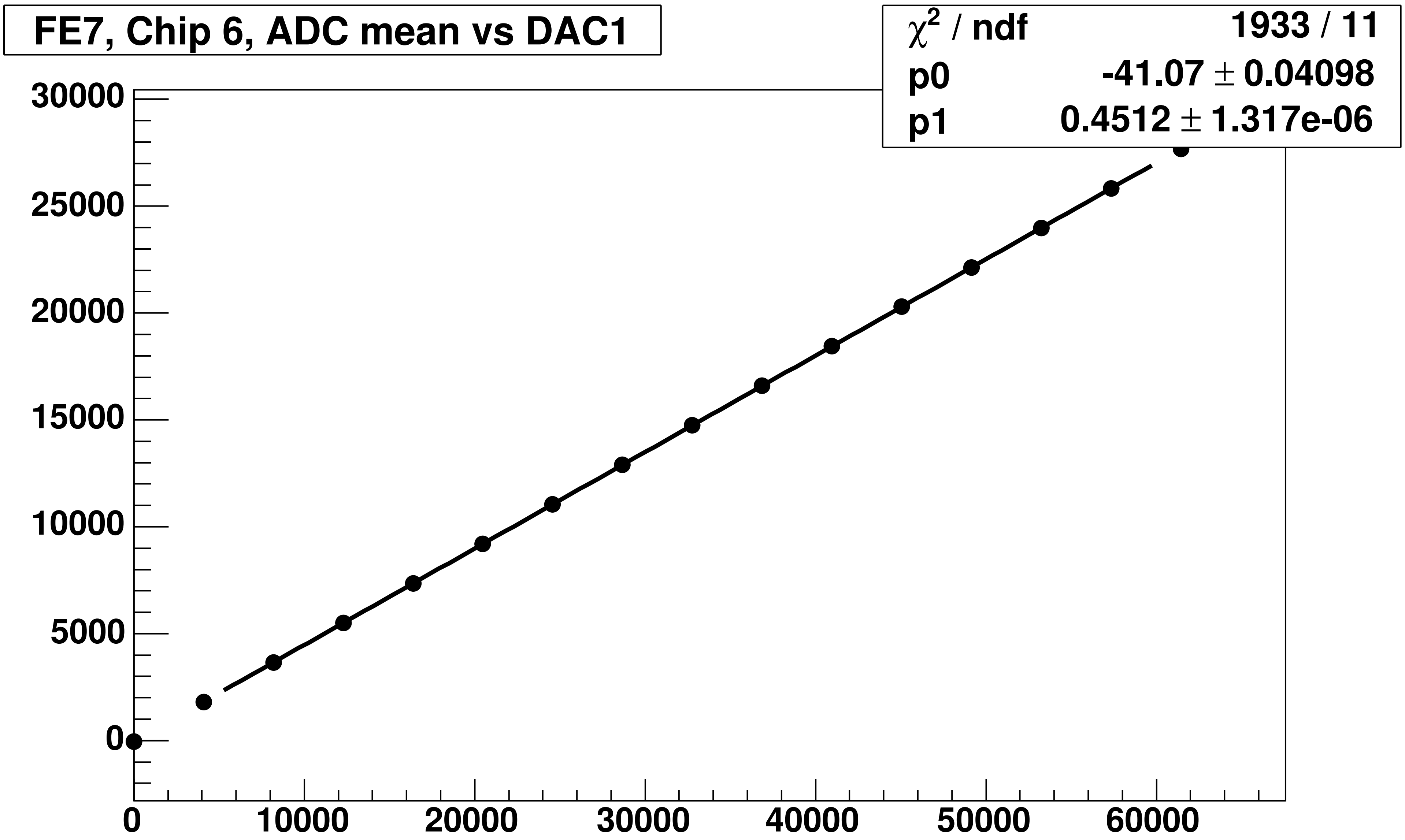

FE7, Chip 5, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



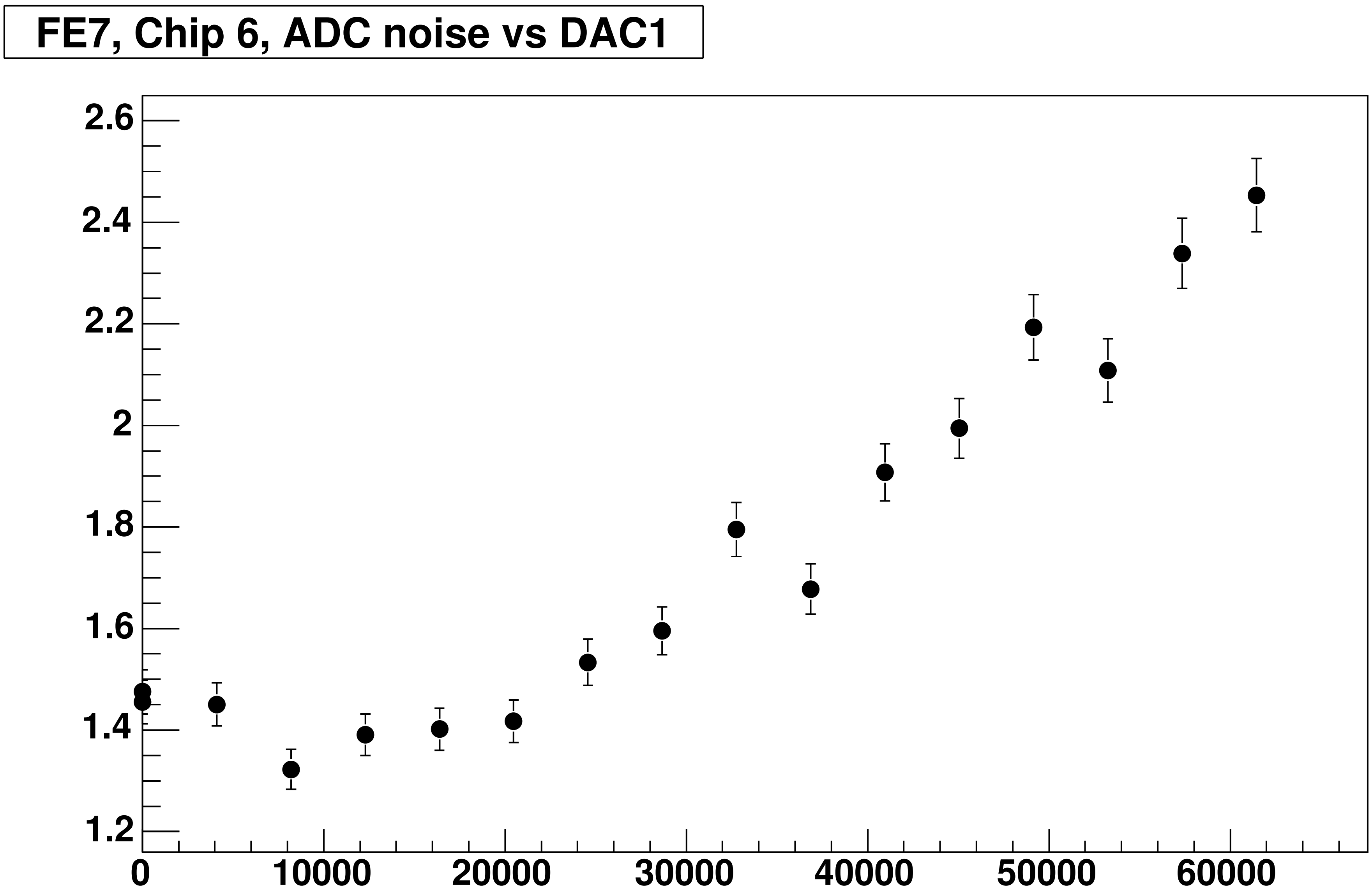
FE7, Chip 6, ADC mean vs DAC0
χ^2 / ndf 8.638 / 11
p0 -42.97 ± 0.03907
p1 -2.3e-06 ± 1.079e-06
-42.7
-42.8
-42.9
-43
-43.1
-43.2
-43.3
0
10000
20000
30000
40000
50000
60000

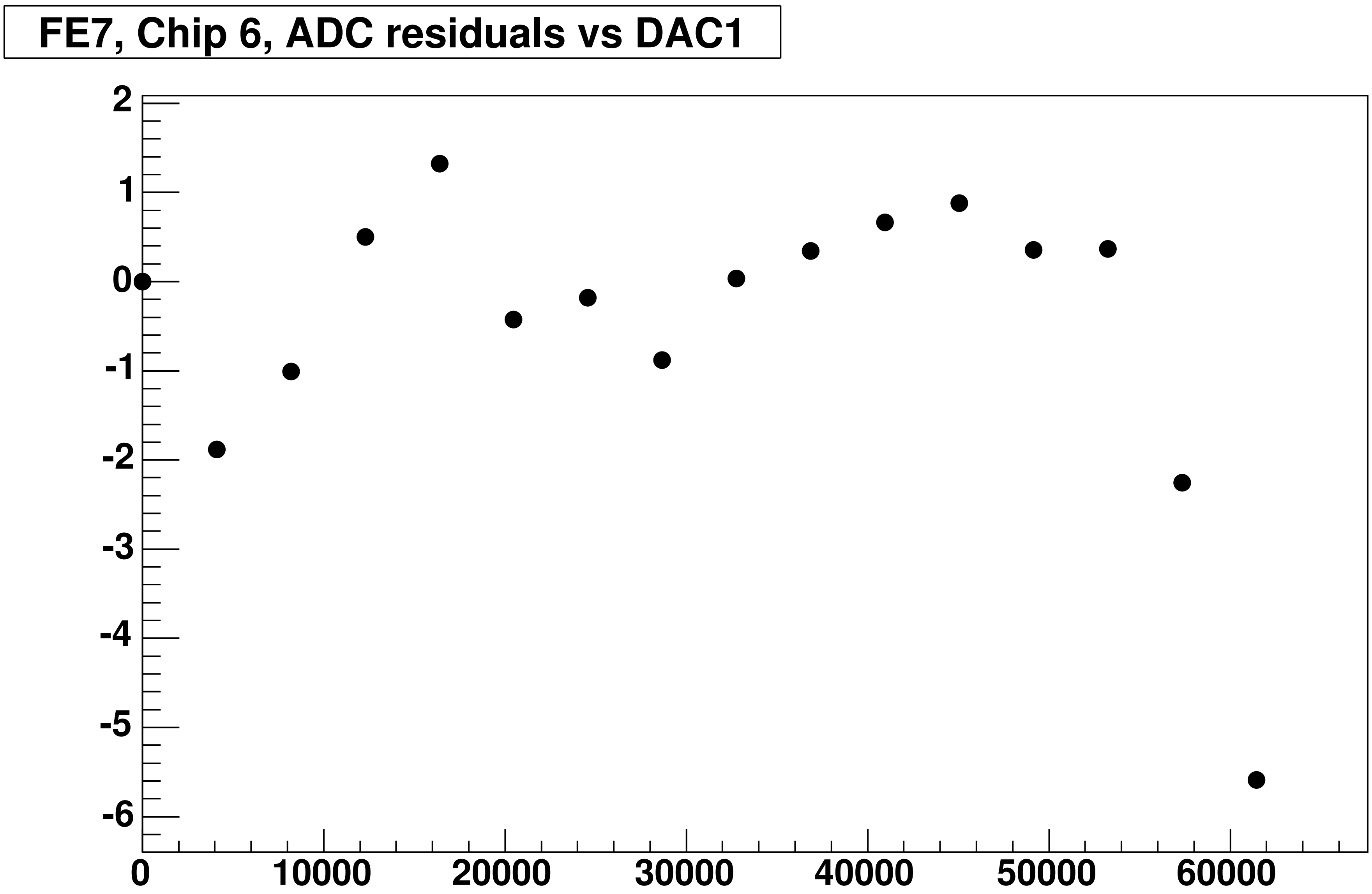

FE7, Chip 6, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

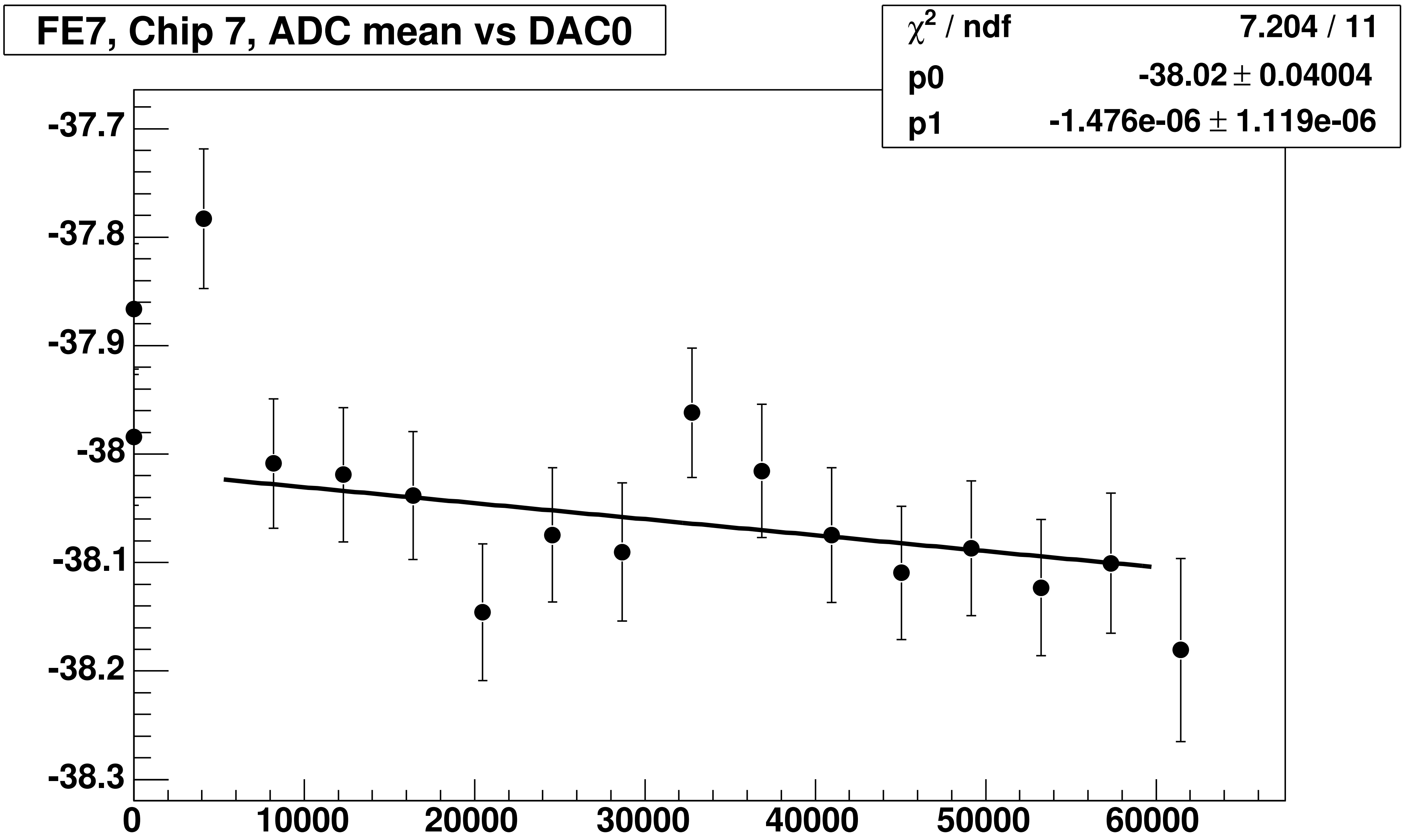

FE7, Chip 6, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



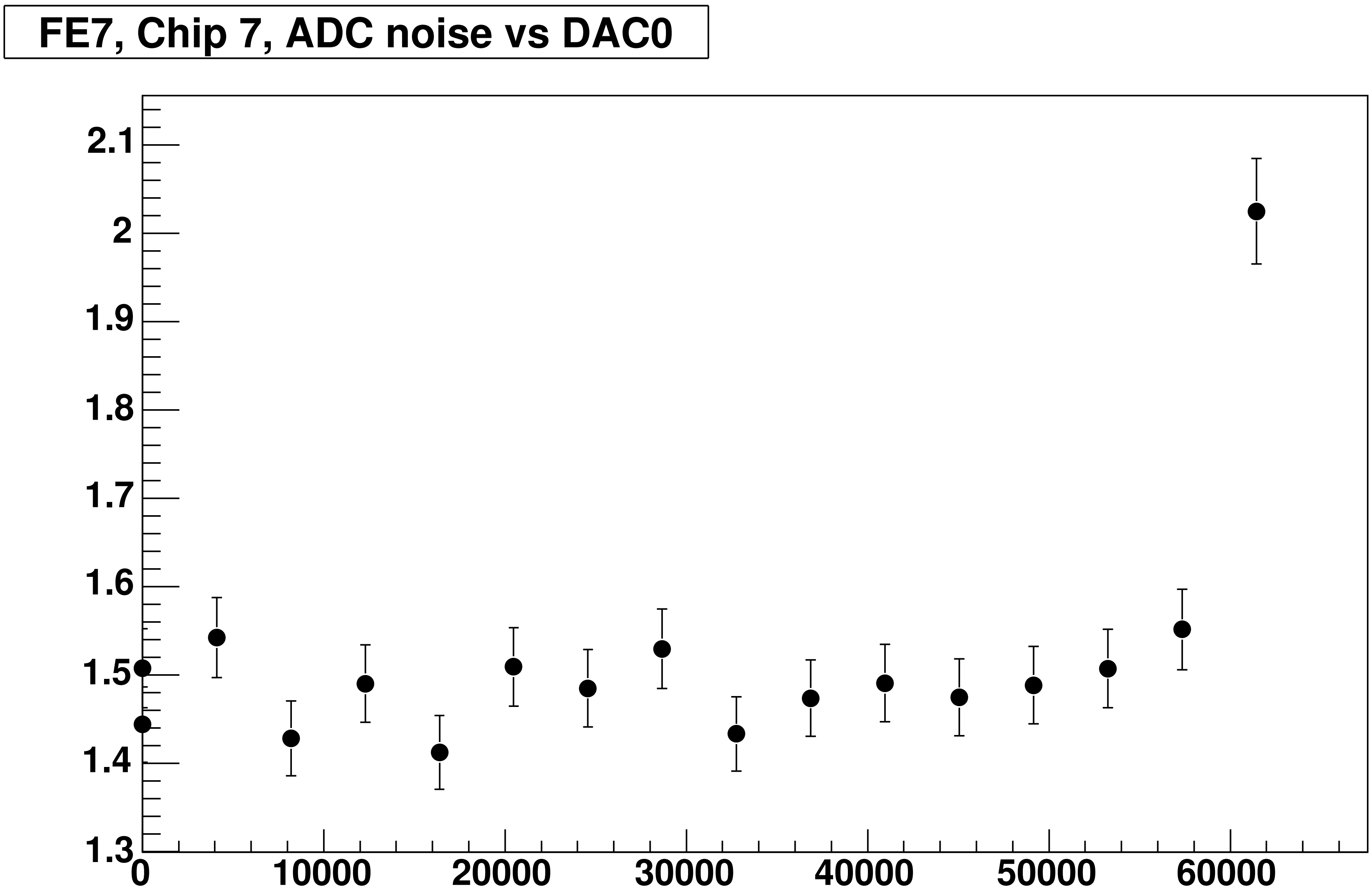
FE7, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1933 / 11
p0 -41.07 ± 0.04098
p1 0.4512 ± 1.317e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

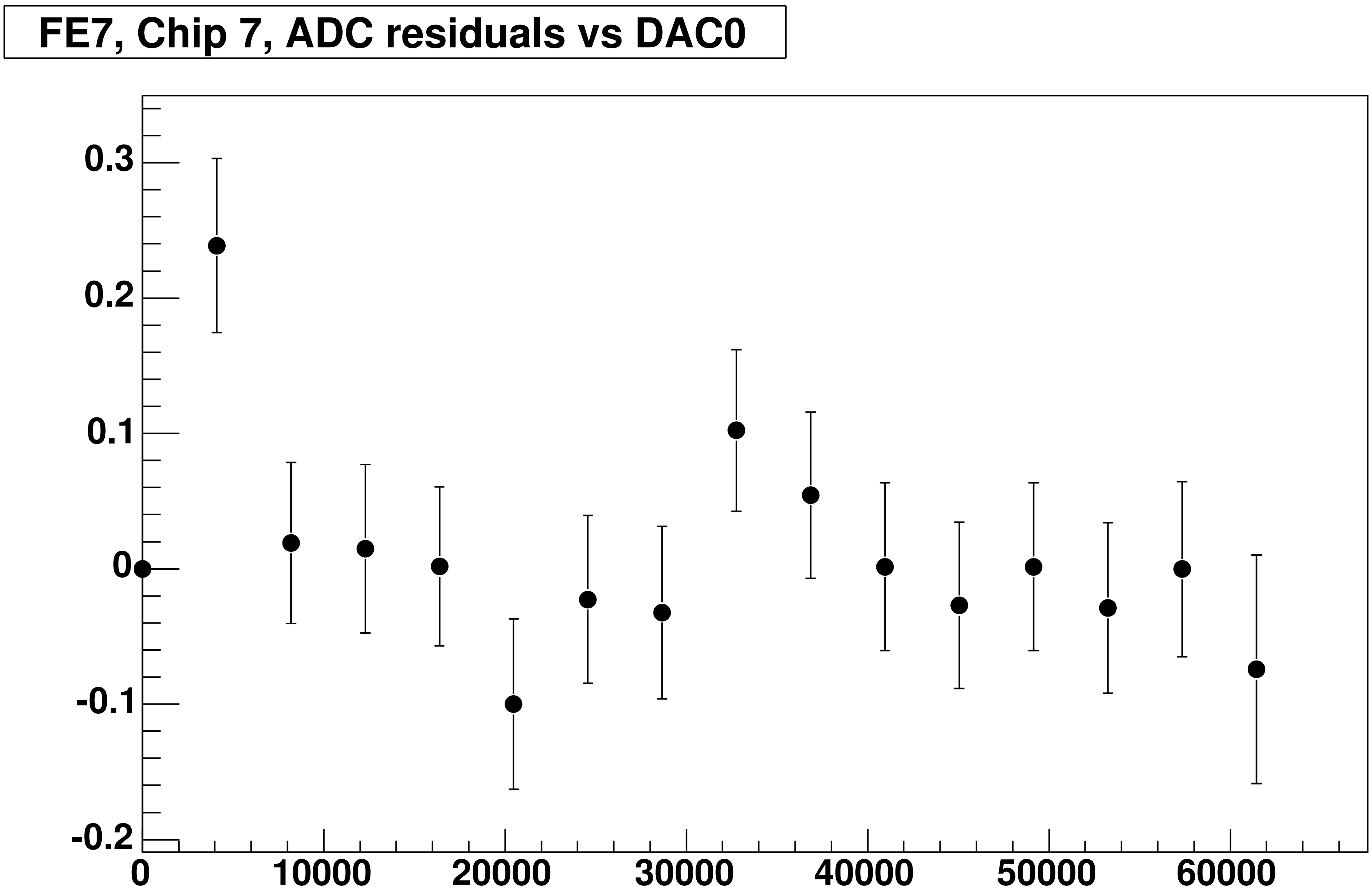

FE7, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

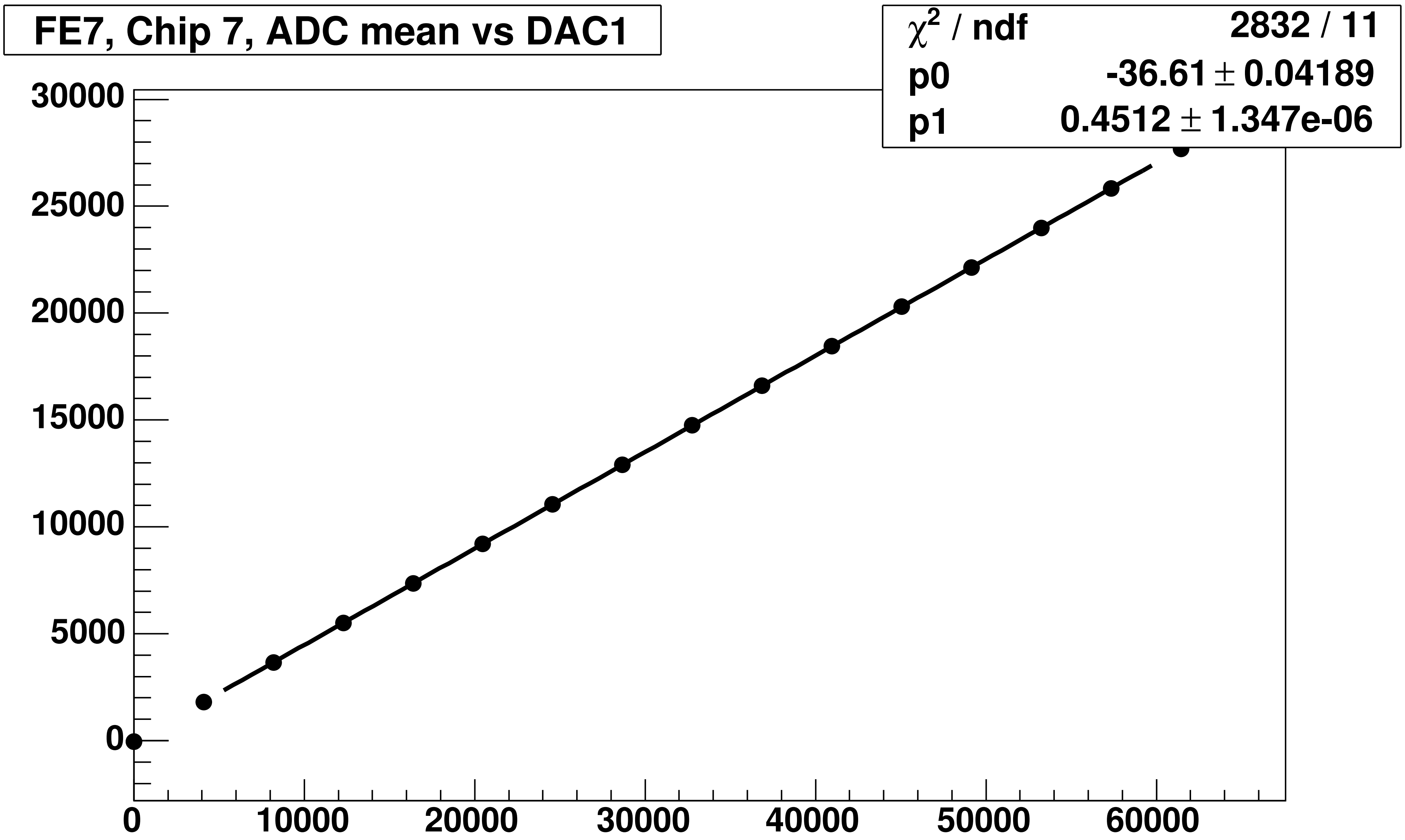

FE7, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



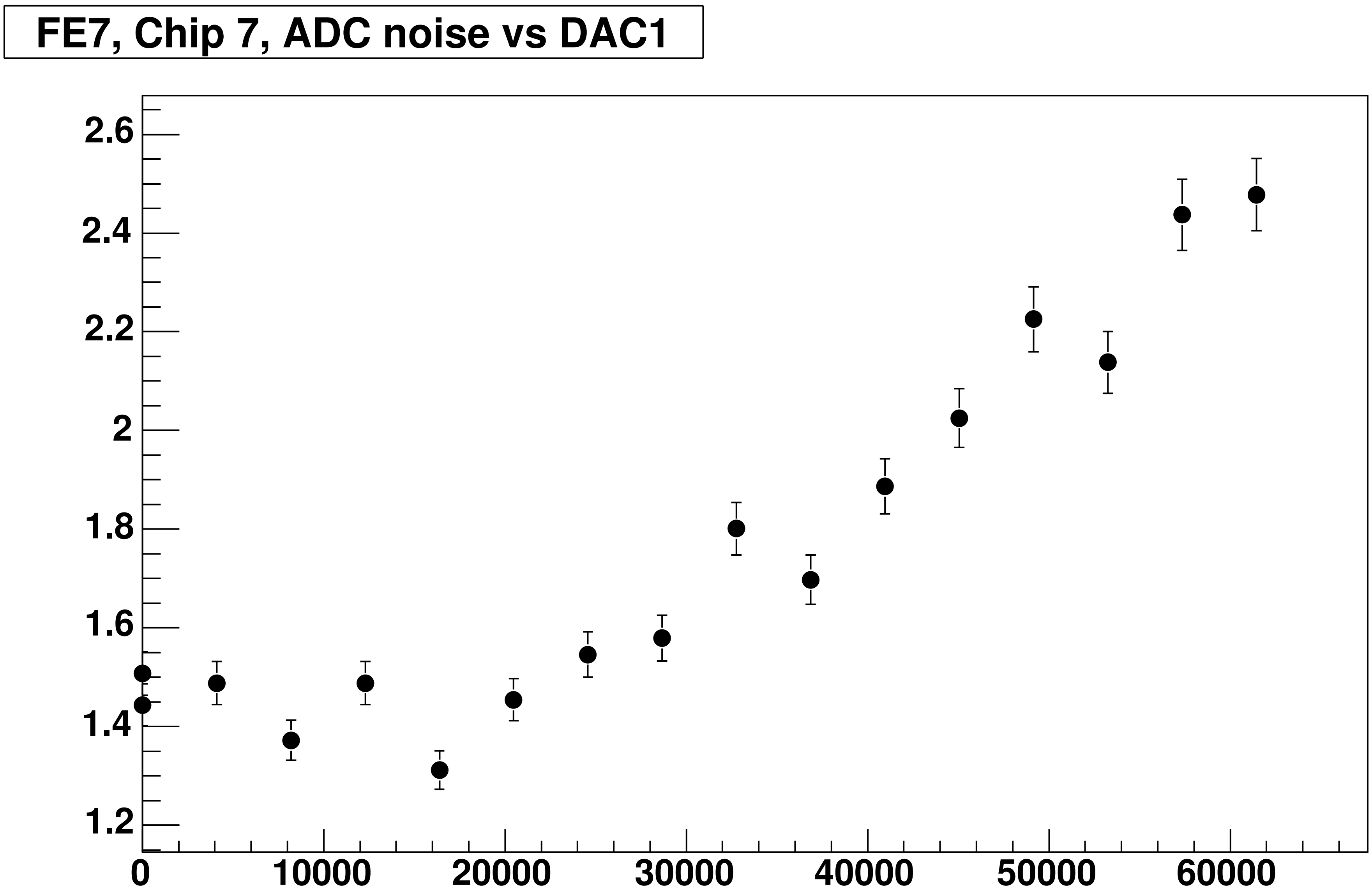
FE7, Chip 7, ADC mean vs DAC0
χ^2 / ndf 7.204 / 11
p0 -38.02 ± 0.04004
p1 -1.476e-06 ± 1.119e-06
-37.7
-37.8
-37.9
-38
-38.1
-38.2
-38.3
0
10000
20000
30000
40000
50000
60000

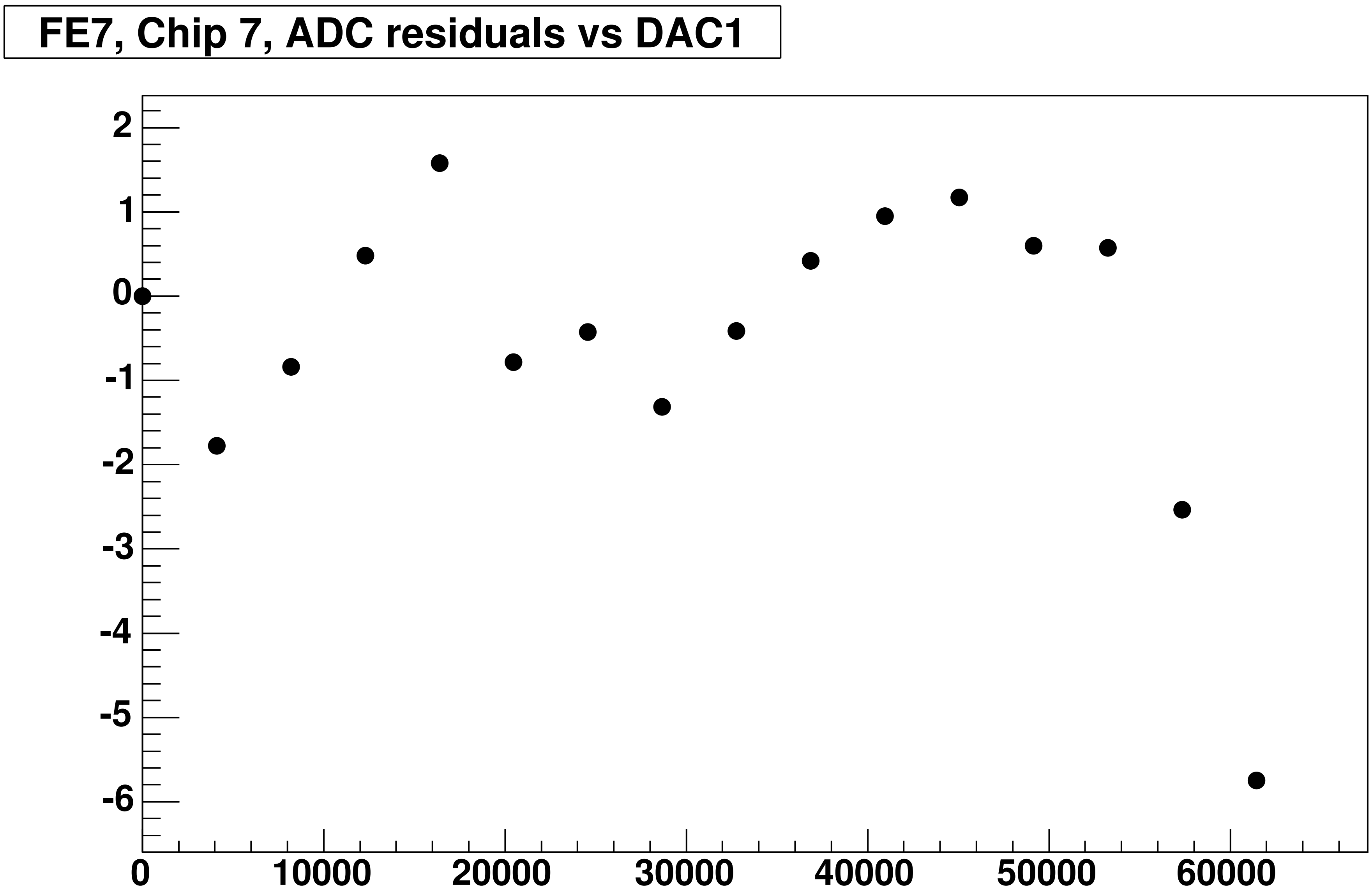

FE7, Chip 7, ADC noise vs DAC0
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000


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

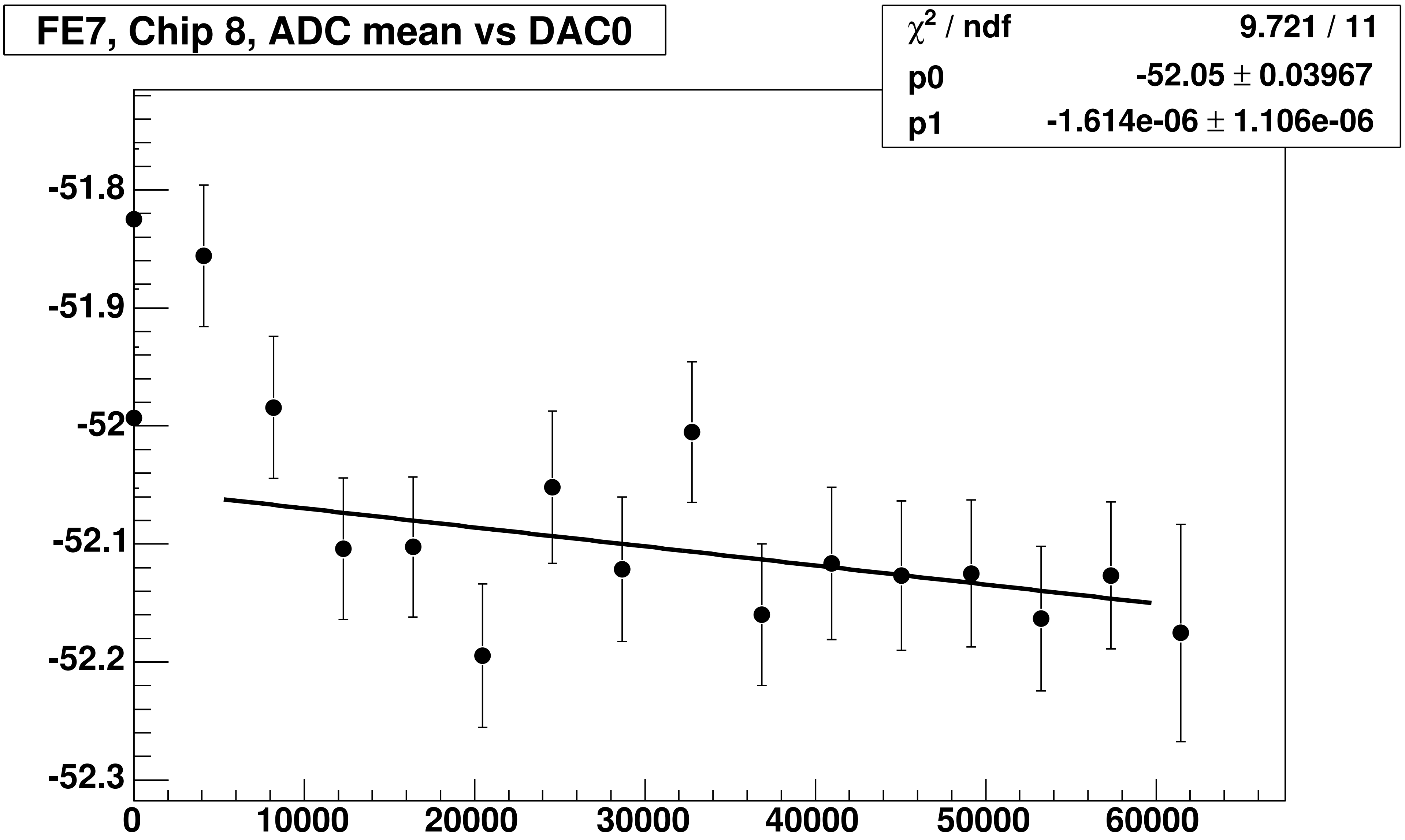


FE7, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2832 / 11
p0 -36.61 ± 0.04189
p1 0.4512 ± 1.347e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

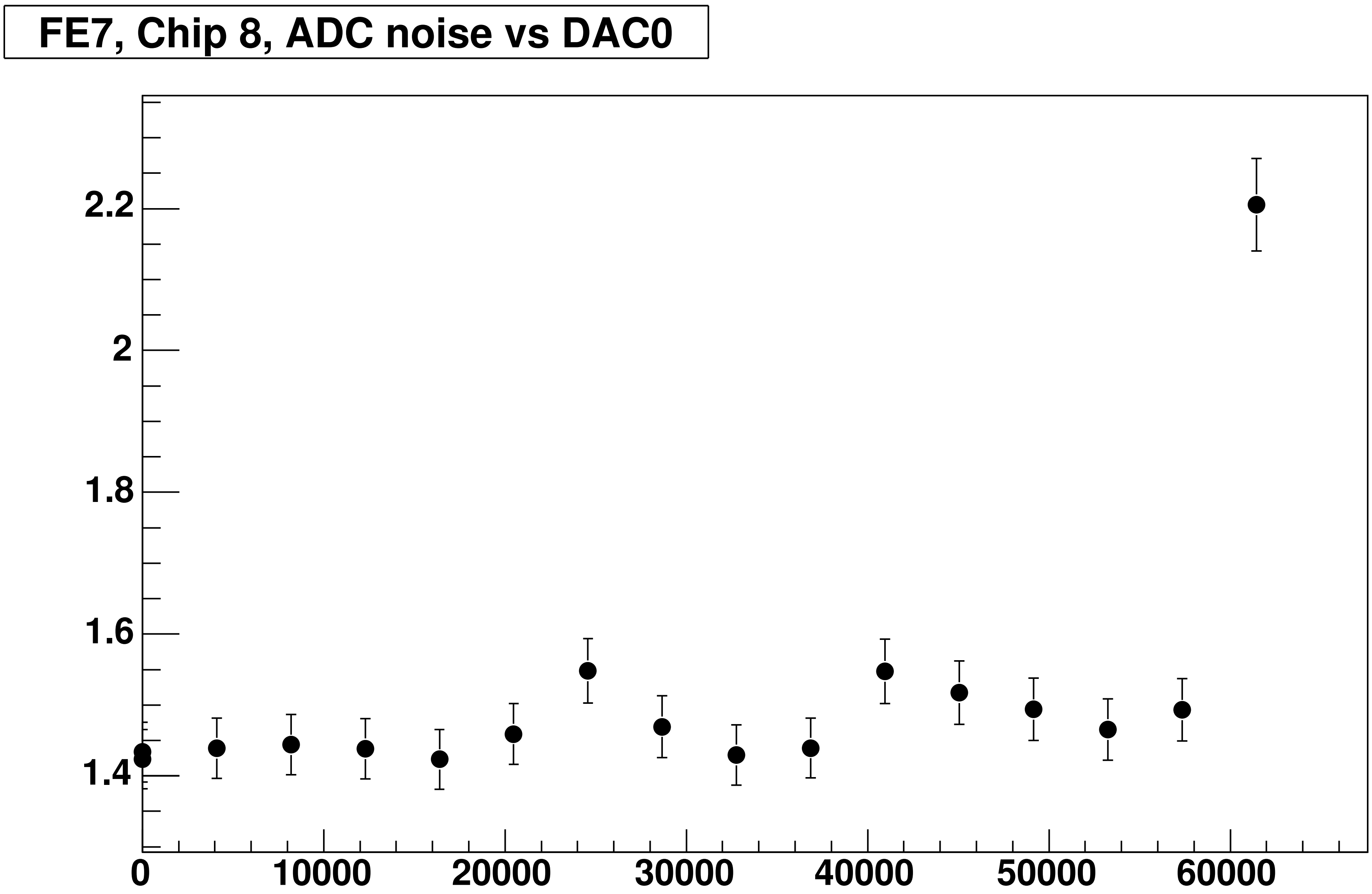

FE7, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

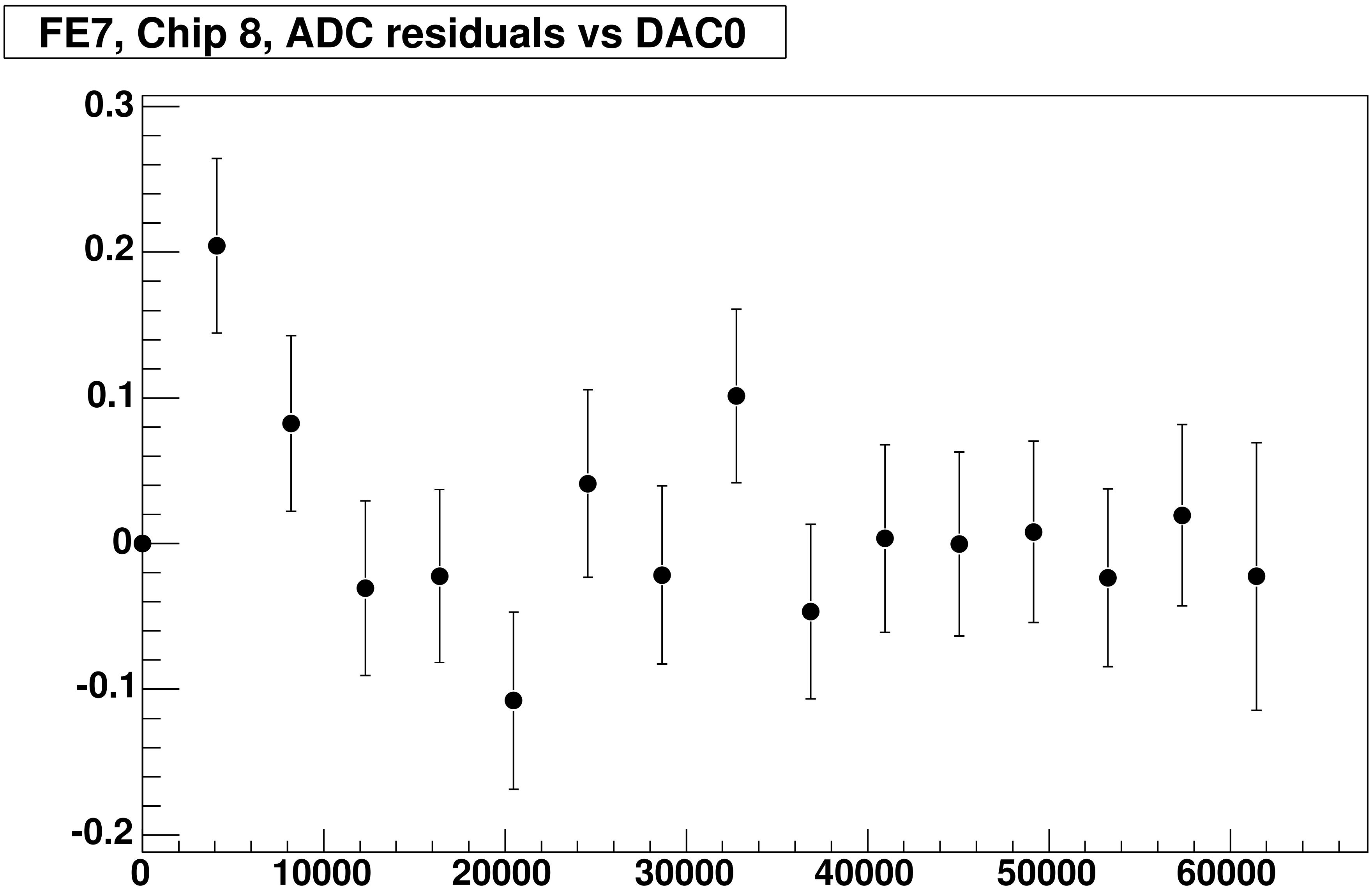


FE7, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

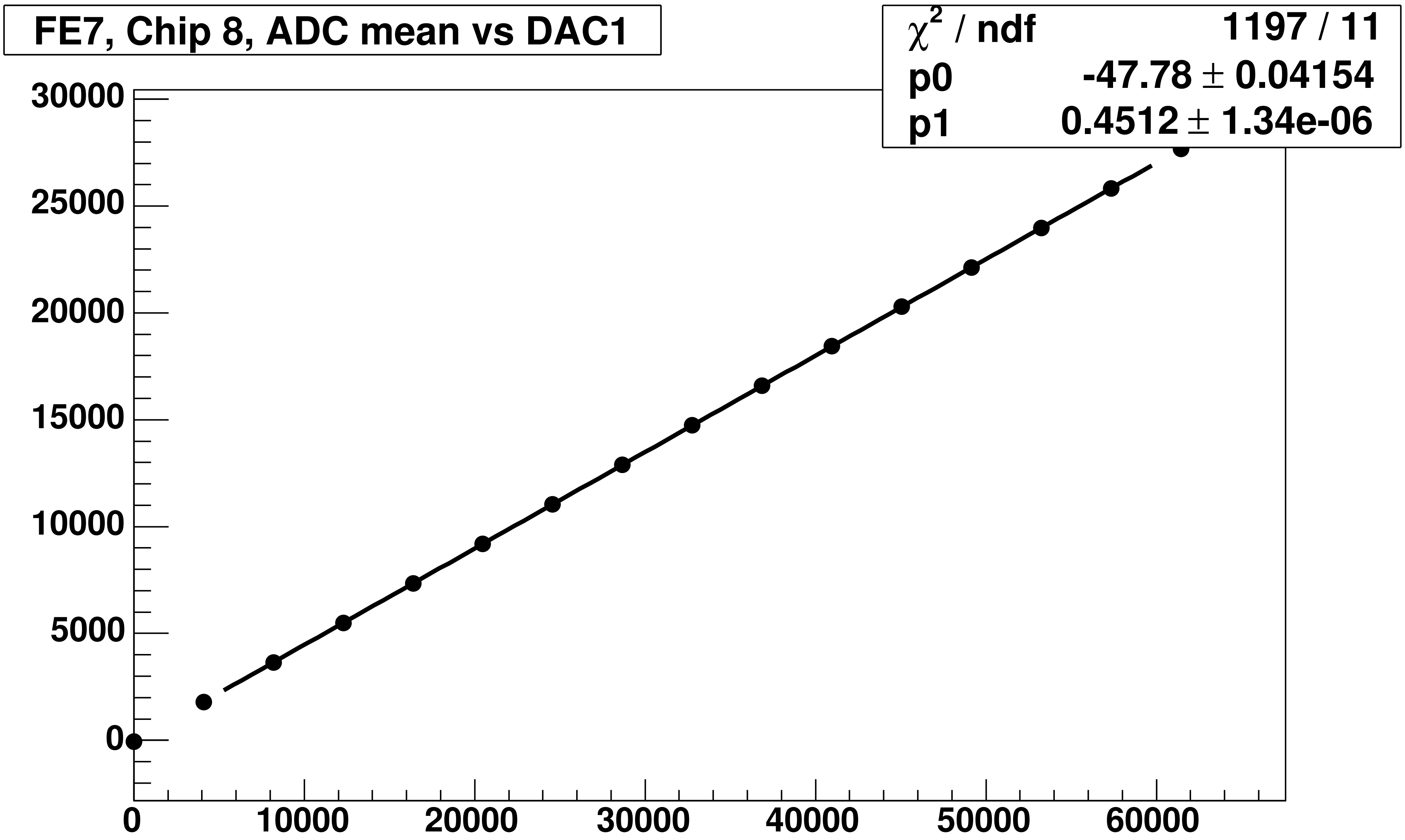


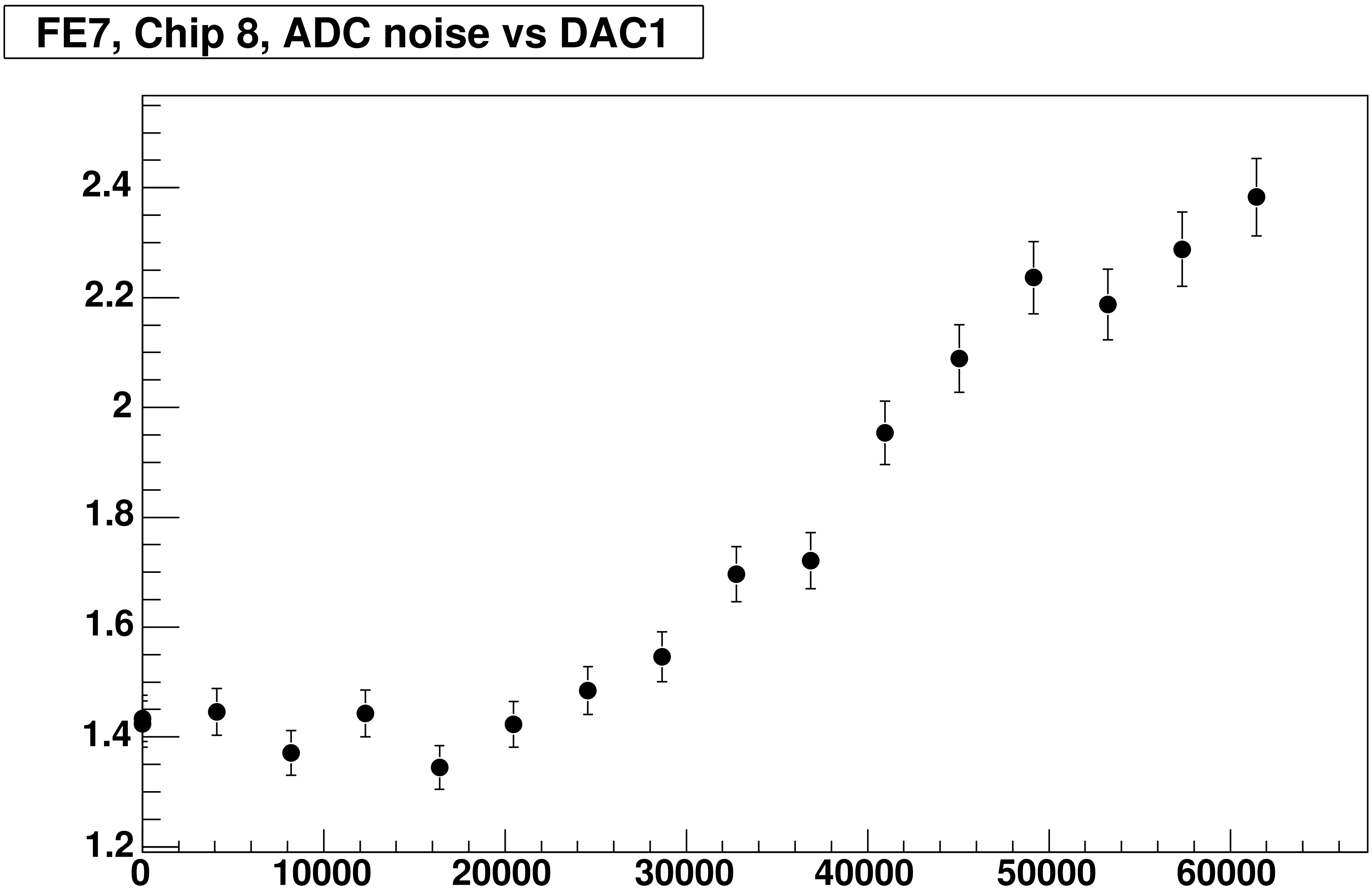
FE7, Chip 8, ADC mean vs DAC0
χ^2 / ndf 9.721 / 11
p0 -52.05 ± 0.03967
p1 -1.614e-06 ± 1.106e-06
-51.8
-51.9
-52
-52.1
-52.2
-52.3
0
10000
20000
30000
40000
50000
60000

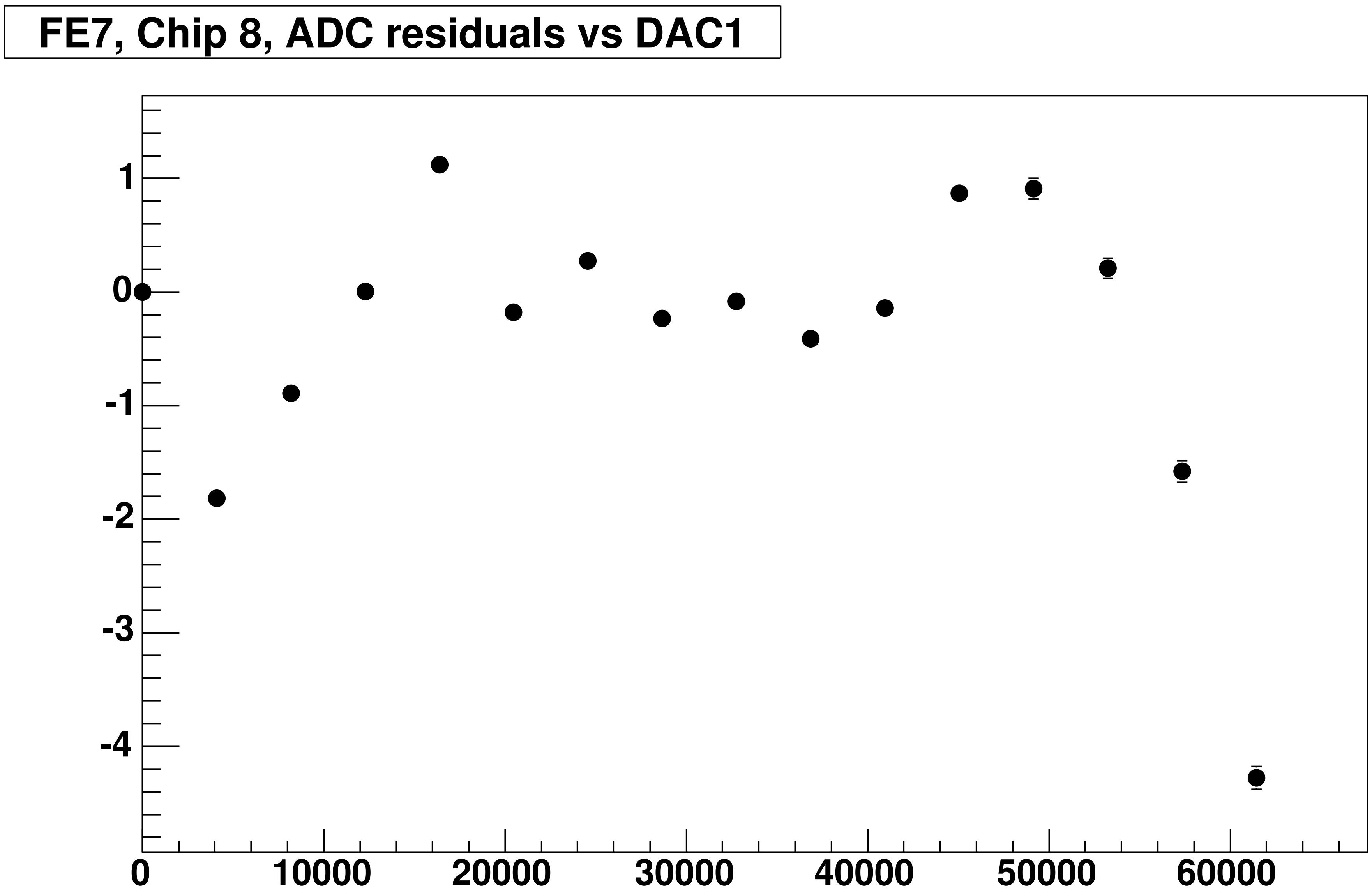

FE7, Chip 8, ADC noise vs DAC0
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

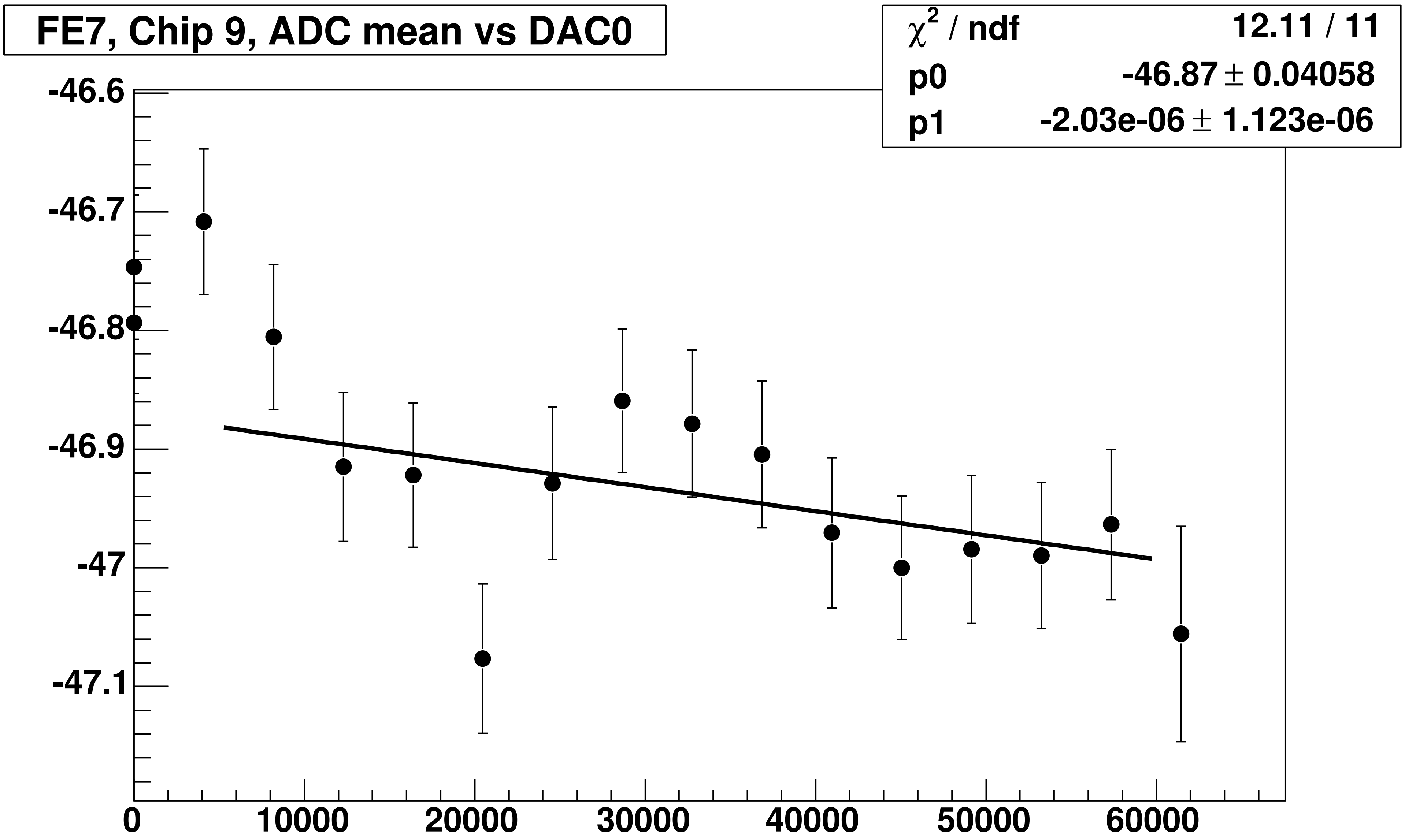


FE7, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

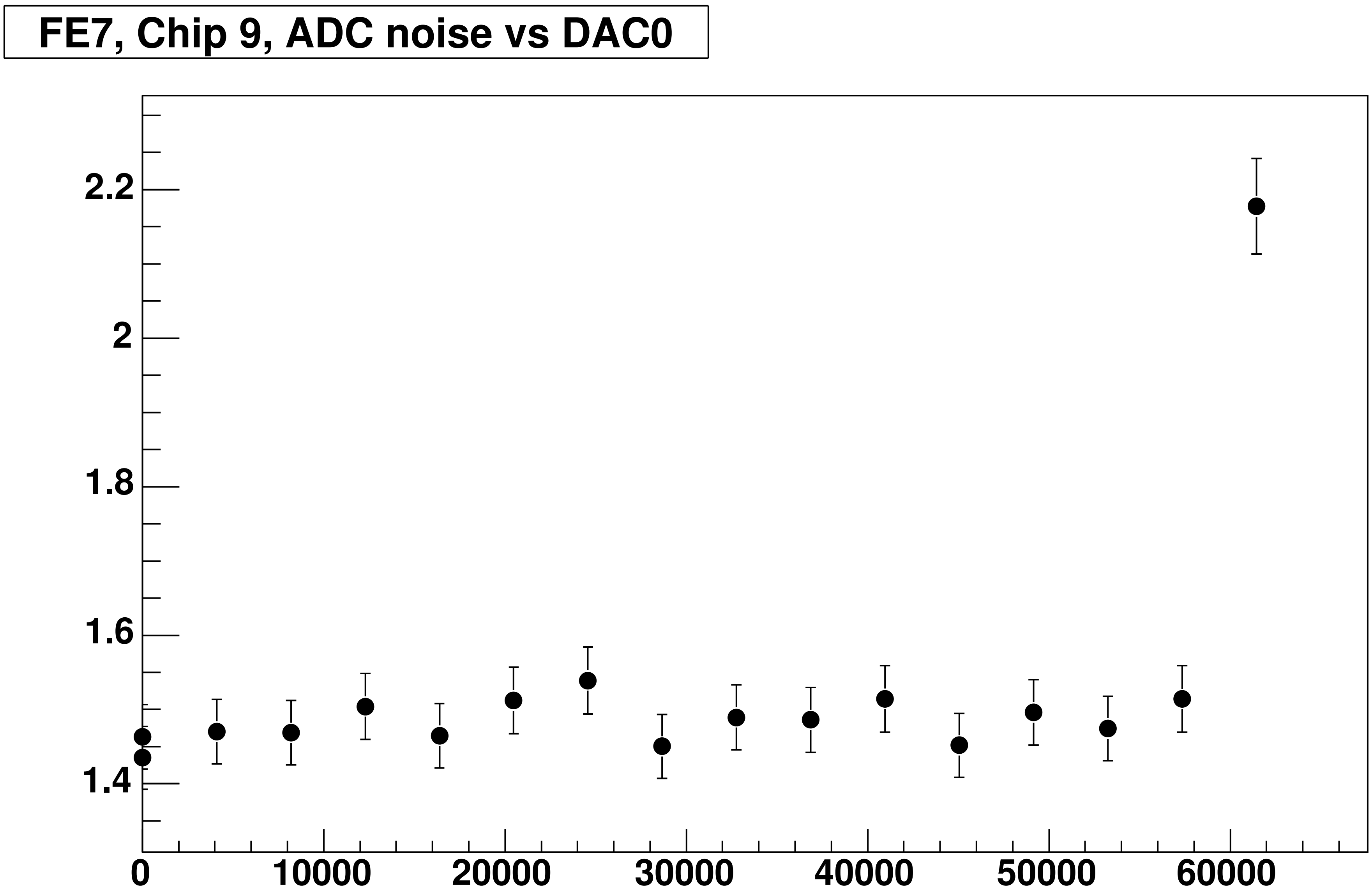

FE7, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1197 / 11
p0 -47.78 ± 0.04154
p1 0.4512 ± 1.34e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

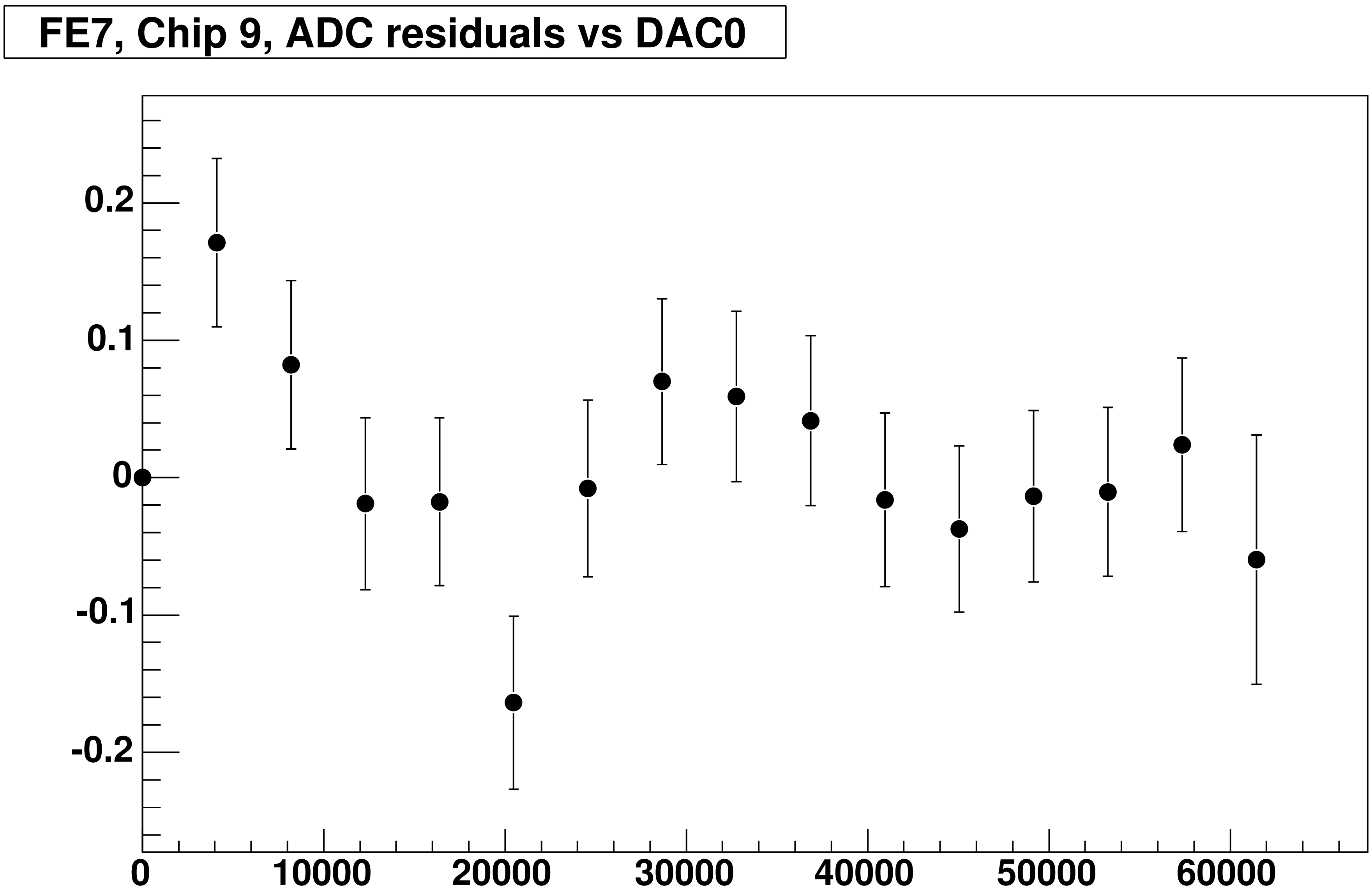

FE7, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

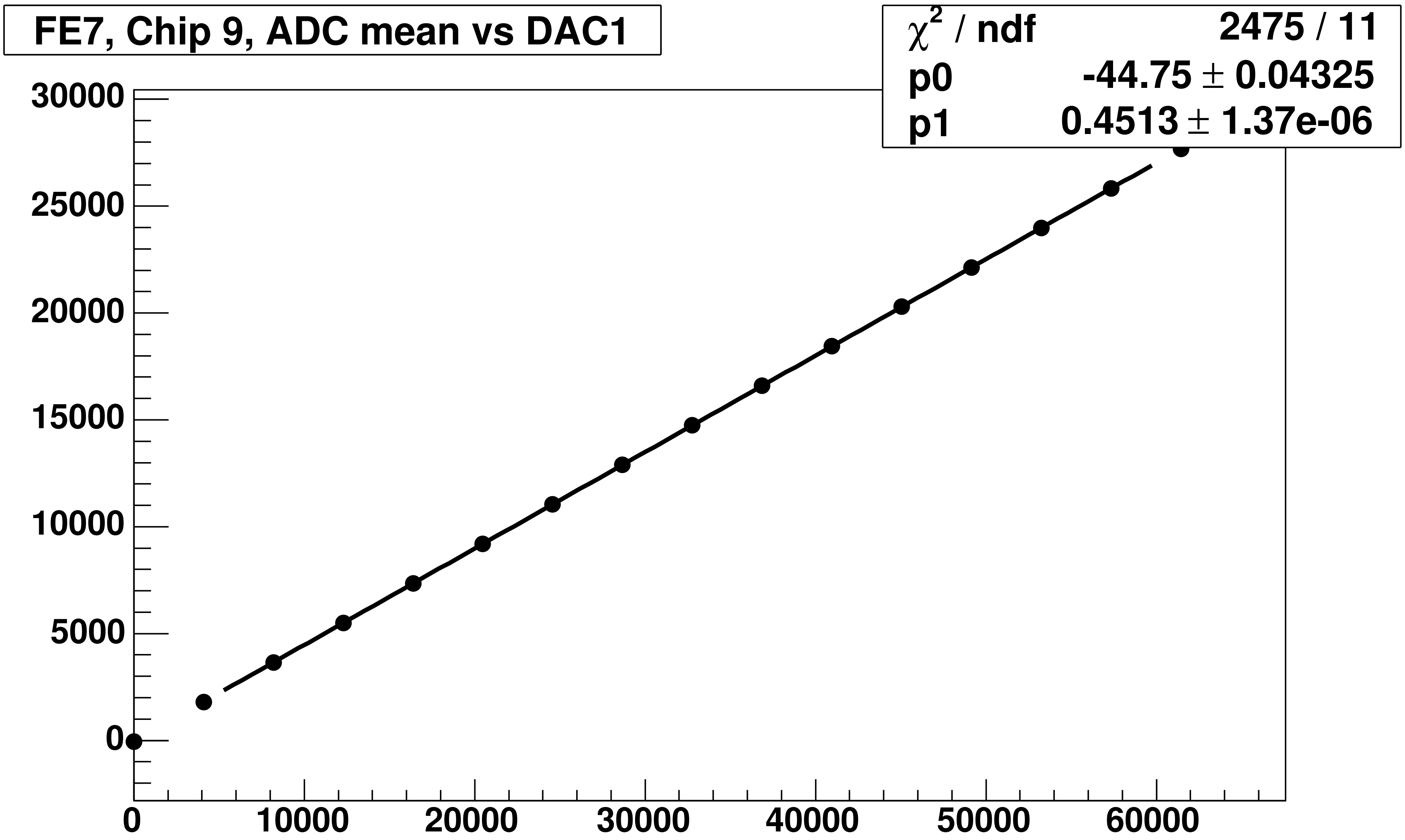

FE7, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



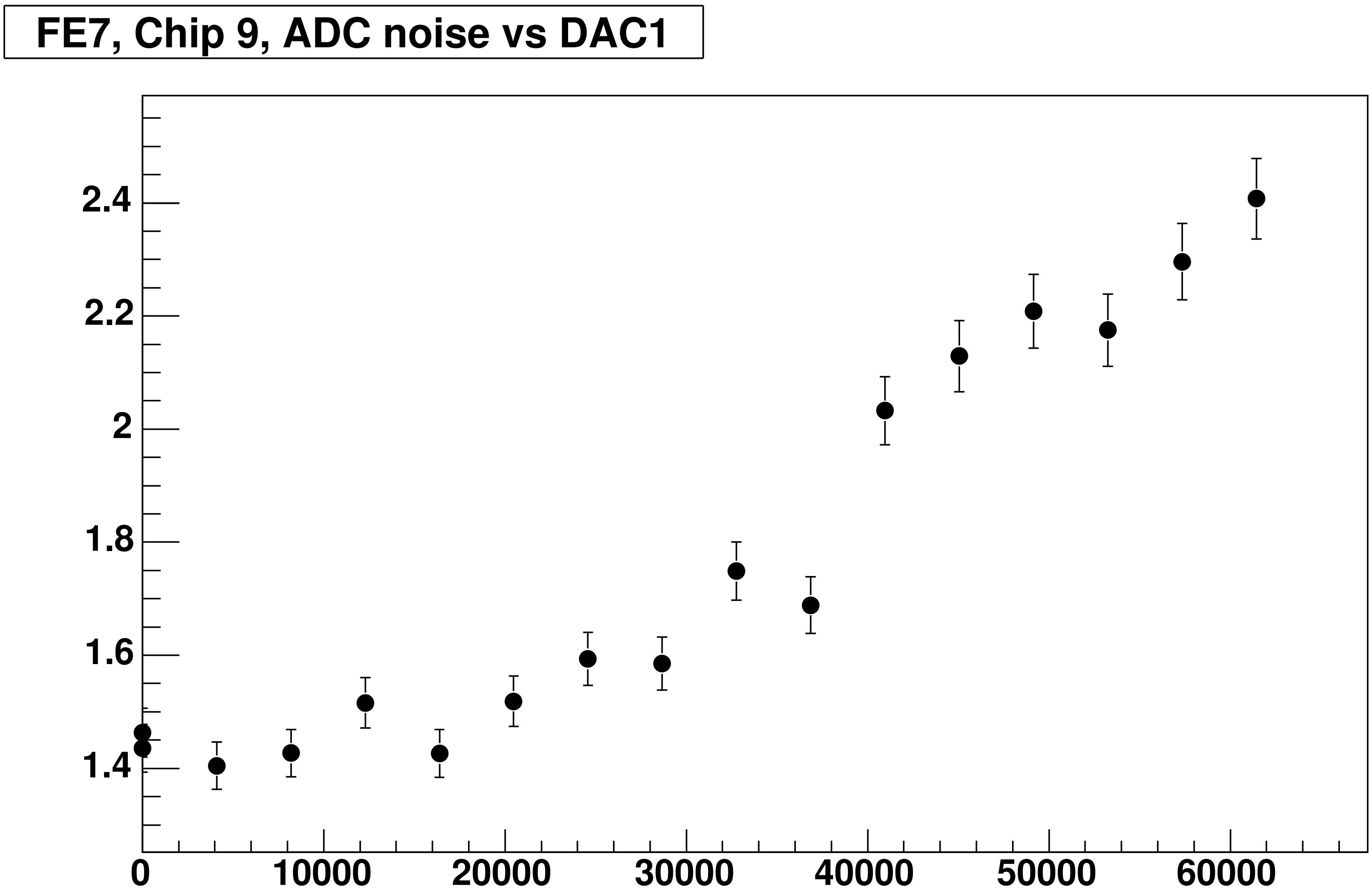
FE7, Chip 9, ADC mean vs DAC0
χ^2 / ndf 12.11 / 11
p0 -46.87 ± 0.04058
p1 -2.03e-06 ± 1.123e-06
-46.6
-46.7
-46.8
-46.9
-47
-47.1
0
10000
20000
30000
40000
50000
60000

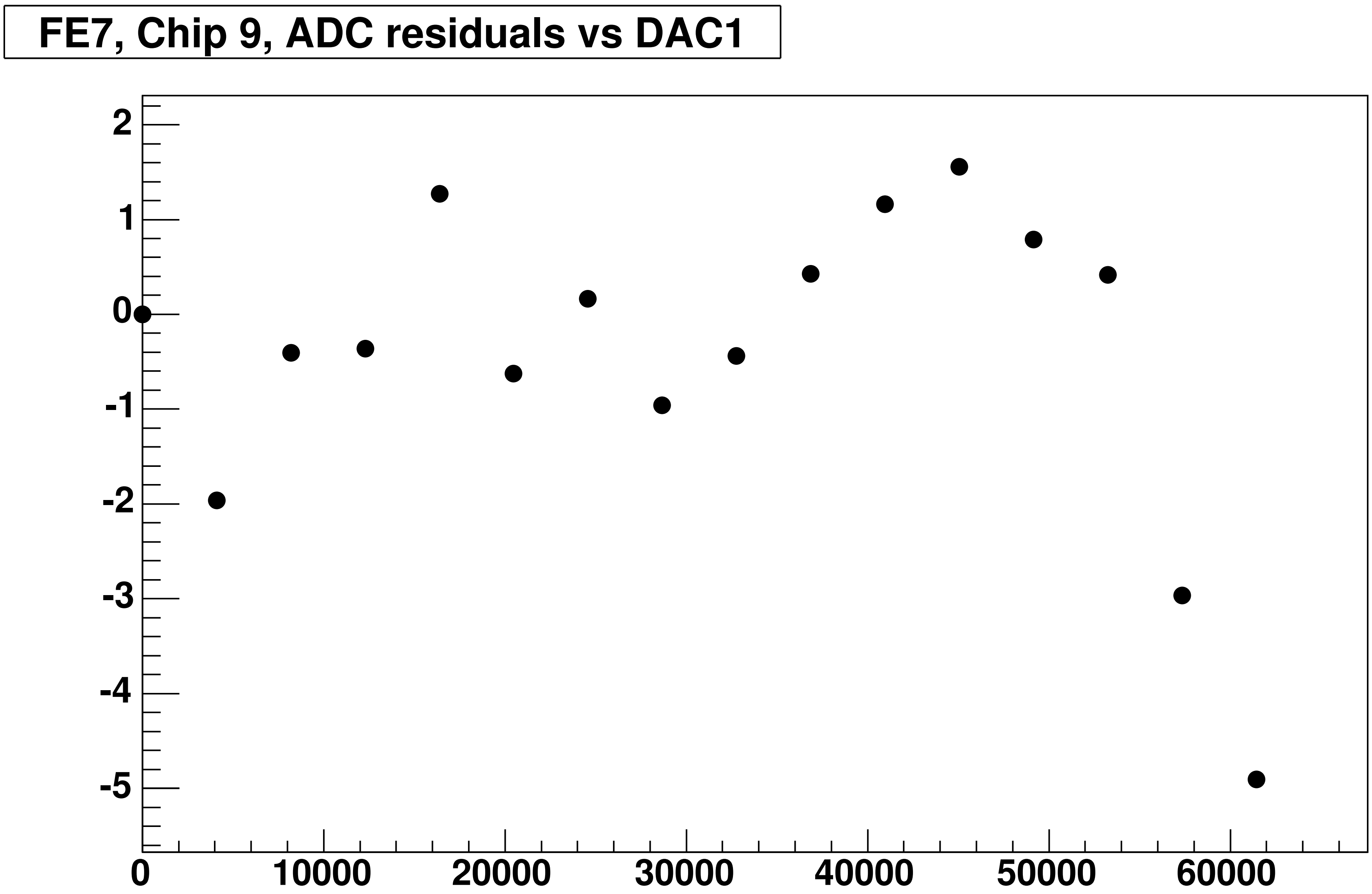

FE7, Chip 9, ADC noise vs DAC0
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

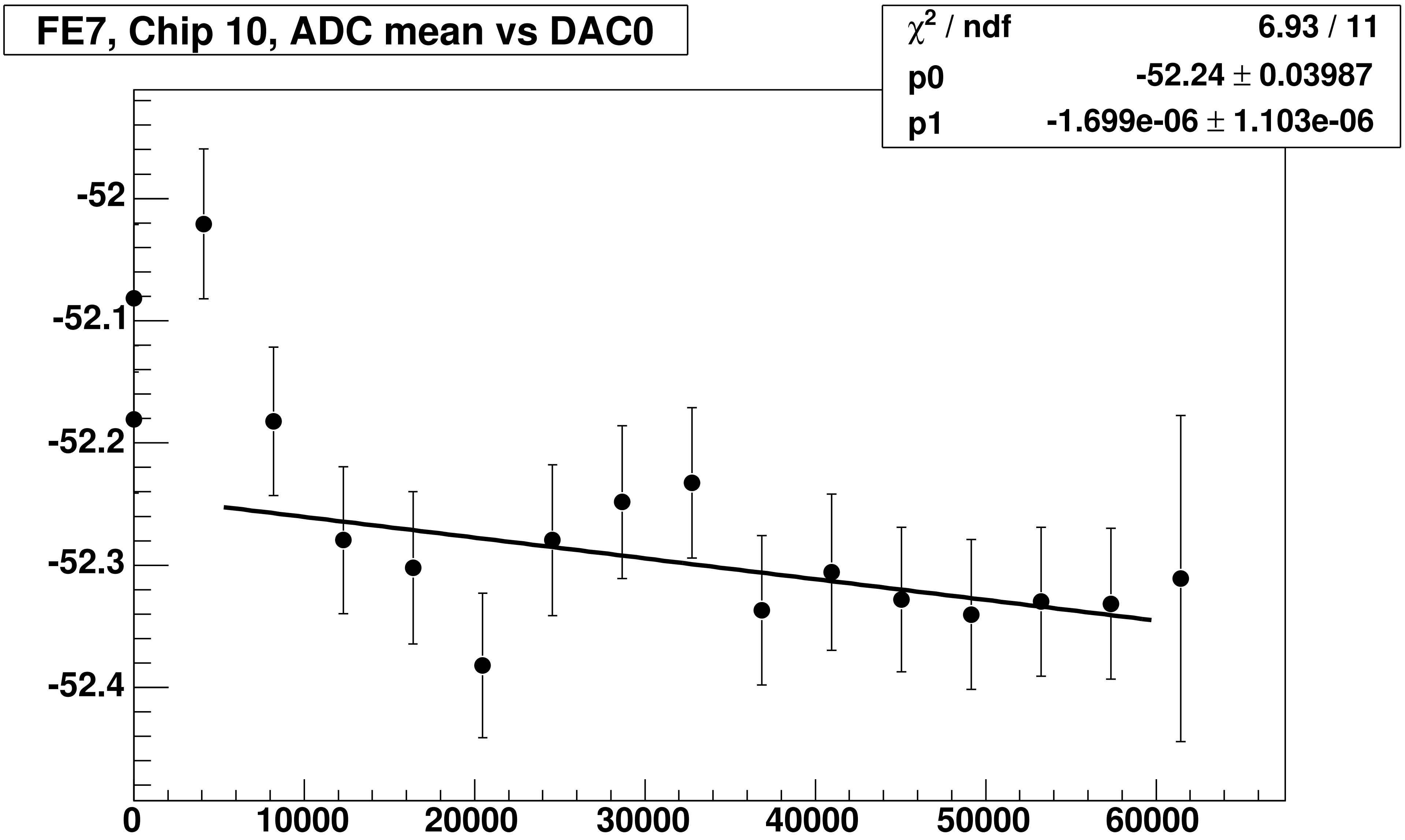

FE7, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



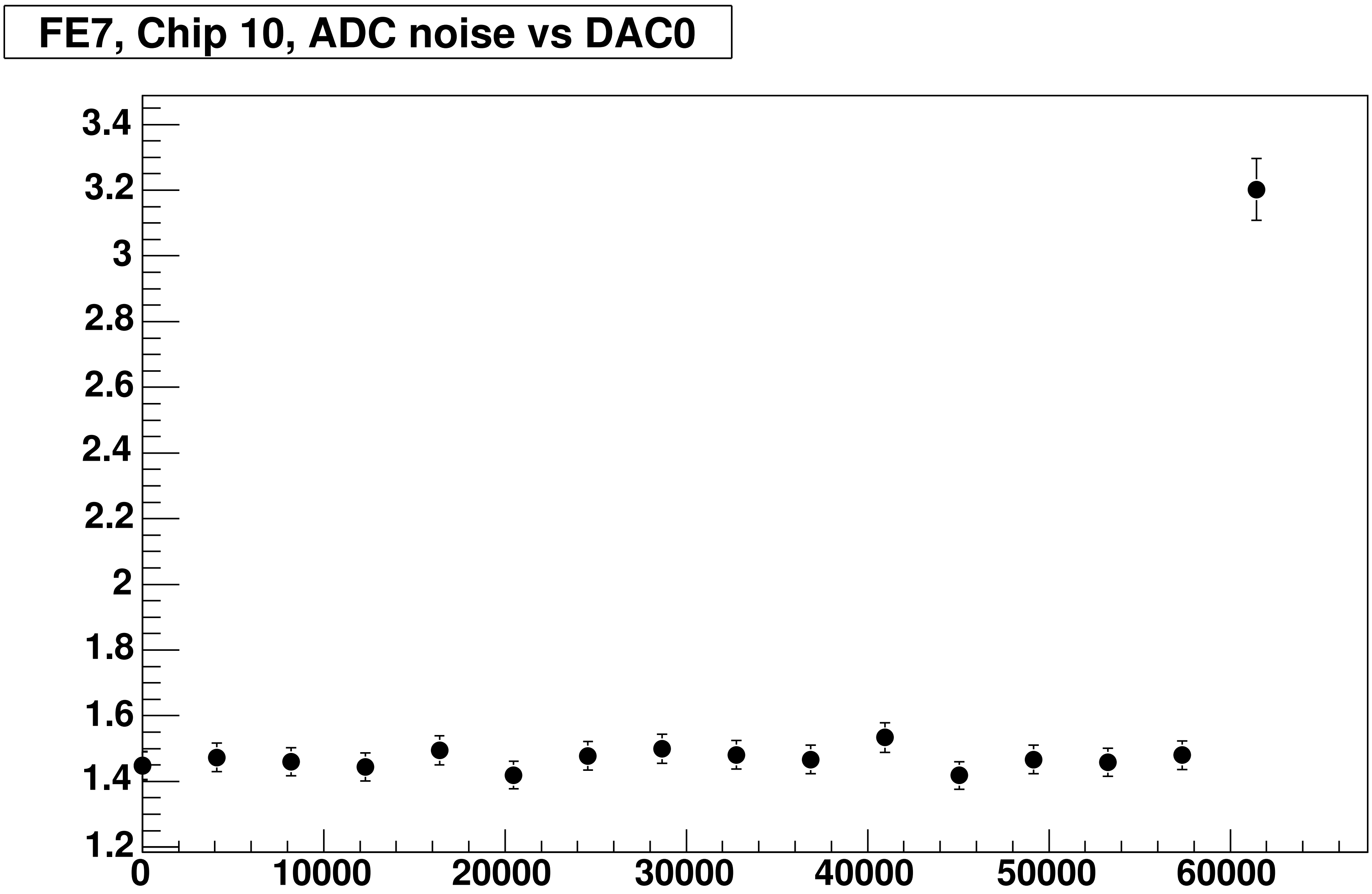
FE7, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2475 / 11
p0 -44.75 ± 0.04325
p1 0.4513 ± 1.37e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

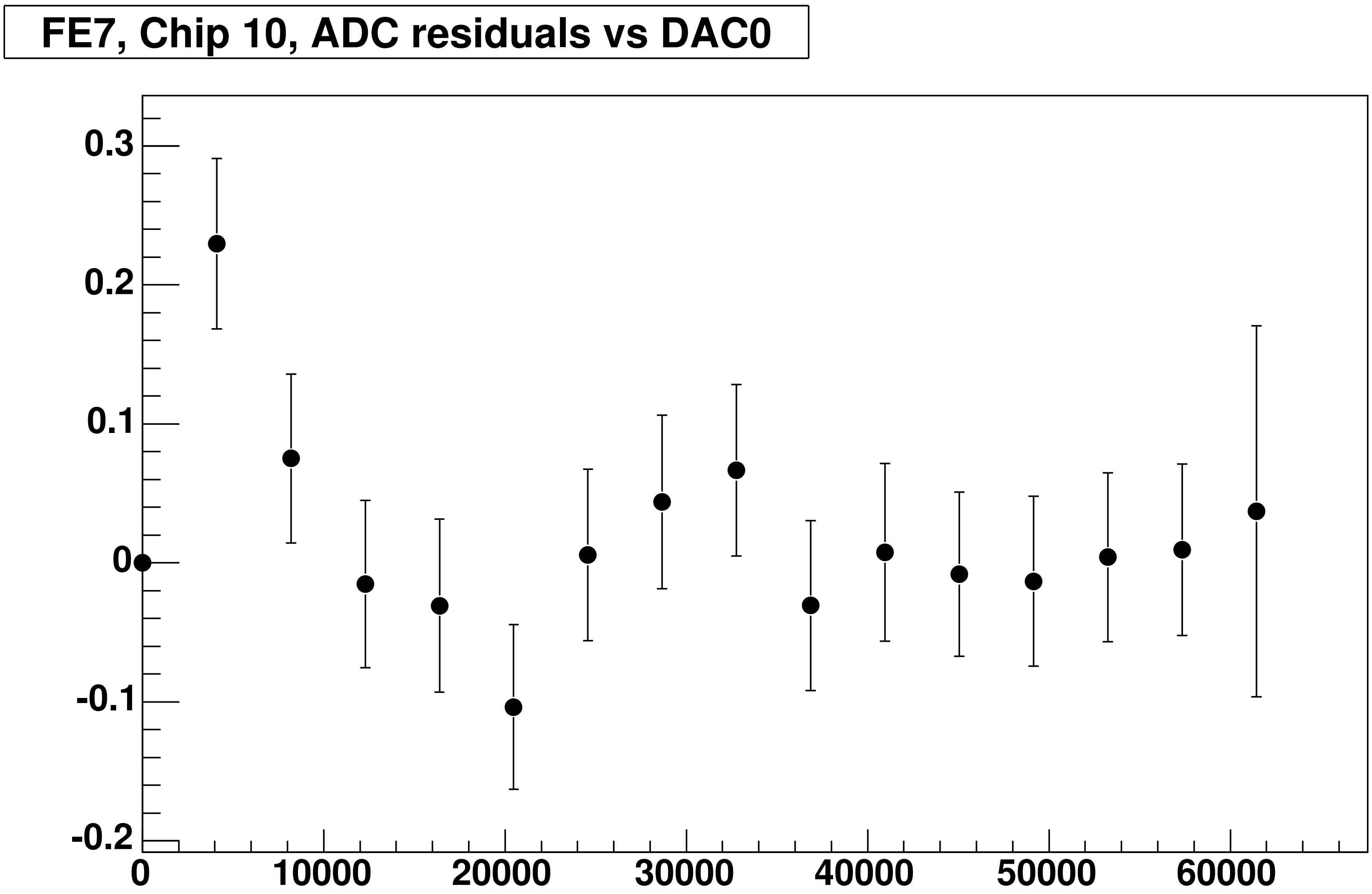

FE7, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

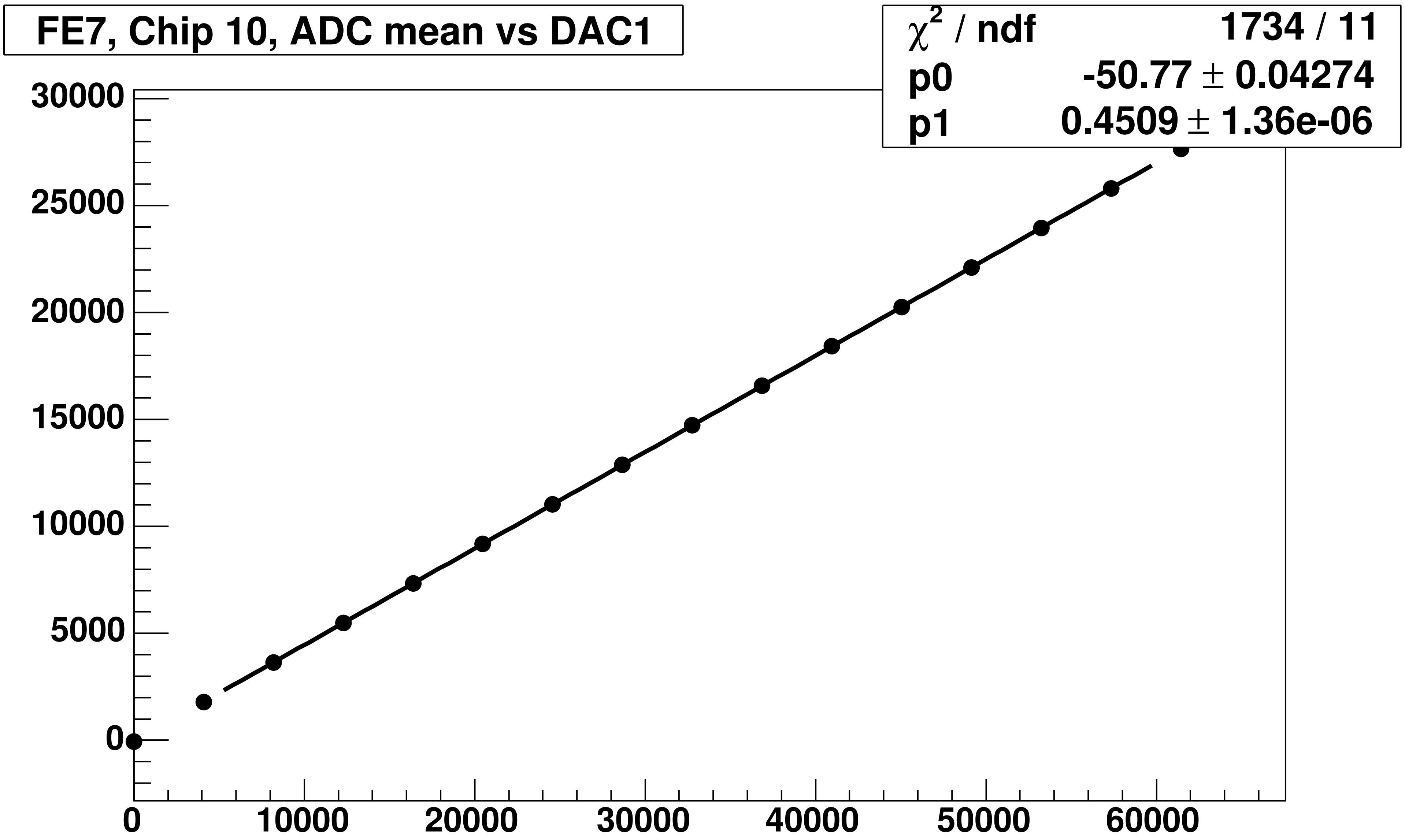


FE7, Chip 10, ADC mean vs DAC0
χ^2 / ndf 6.93 / 11
p0 -52.24 ± 0.03987
p1 -1.699e-06 ± 1.103e-06
-52
-52.1
-52.2
-52.3
-52.4
0
10000
20000
30000
40000
50000
60000

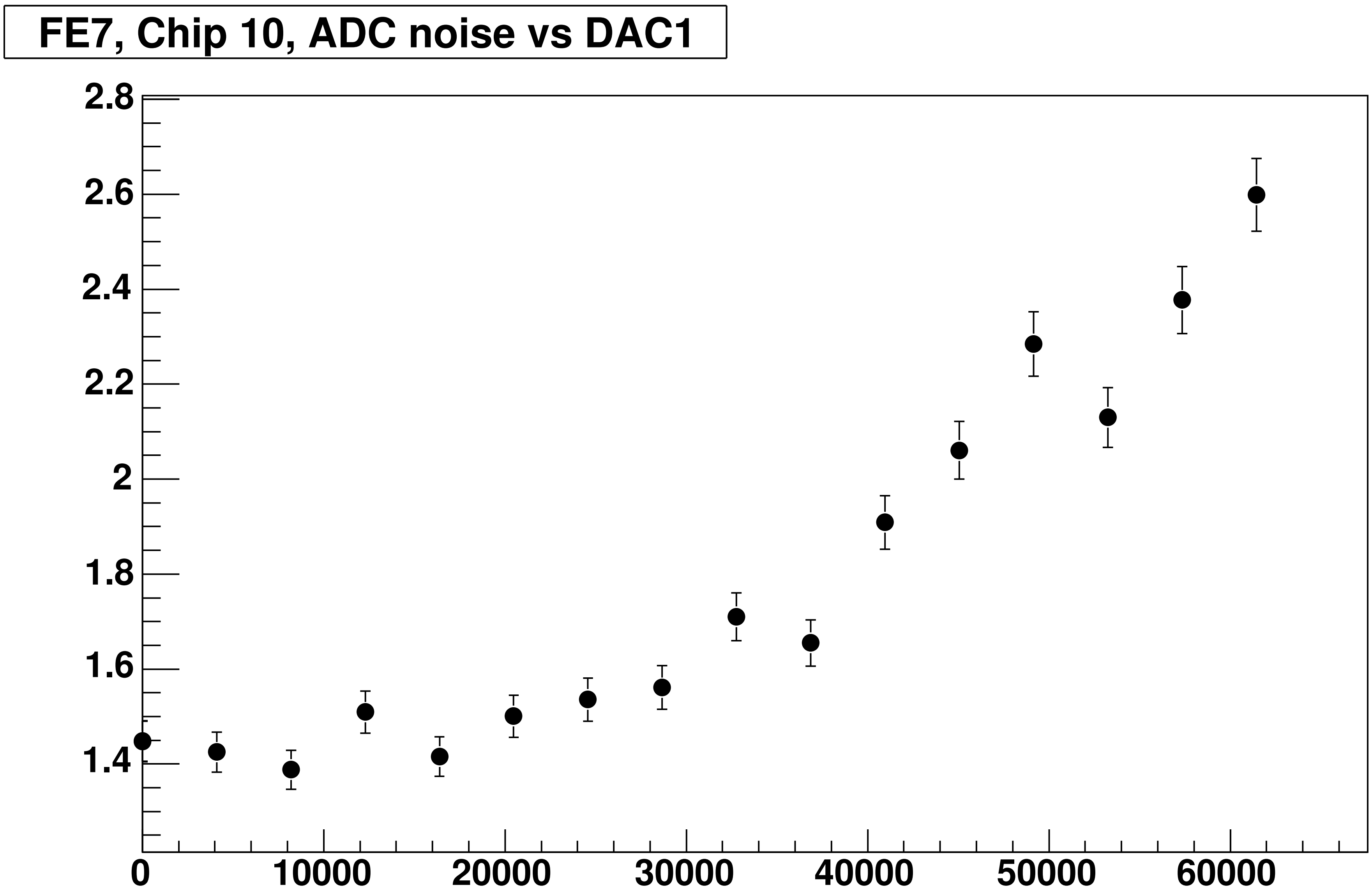


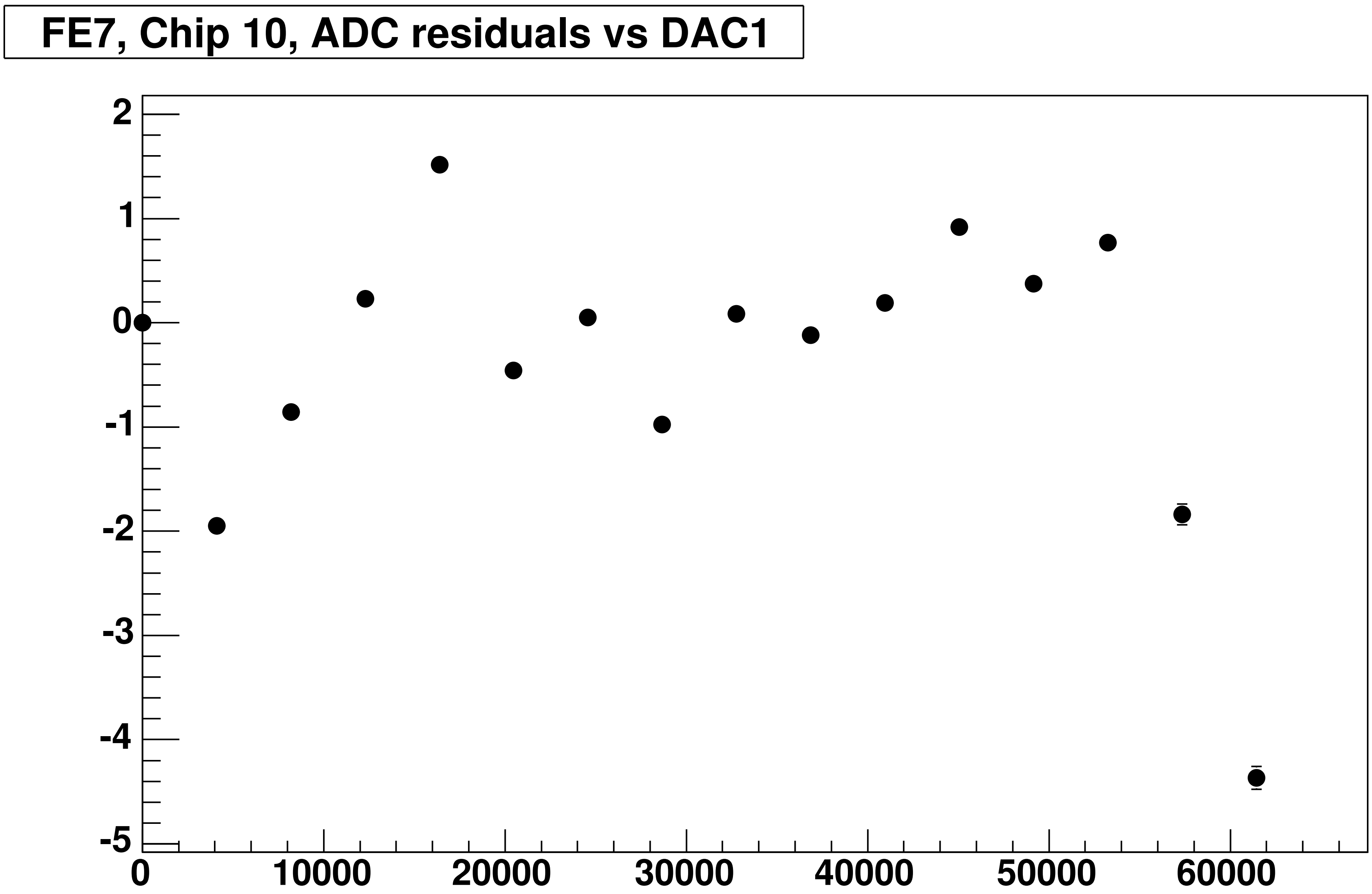
FE7, Chip 10, ADC noise vs DAC0
3.4
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

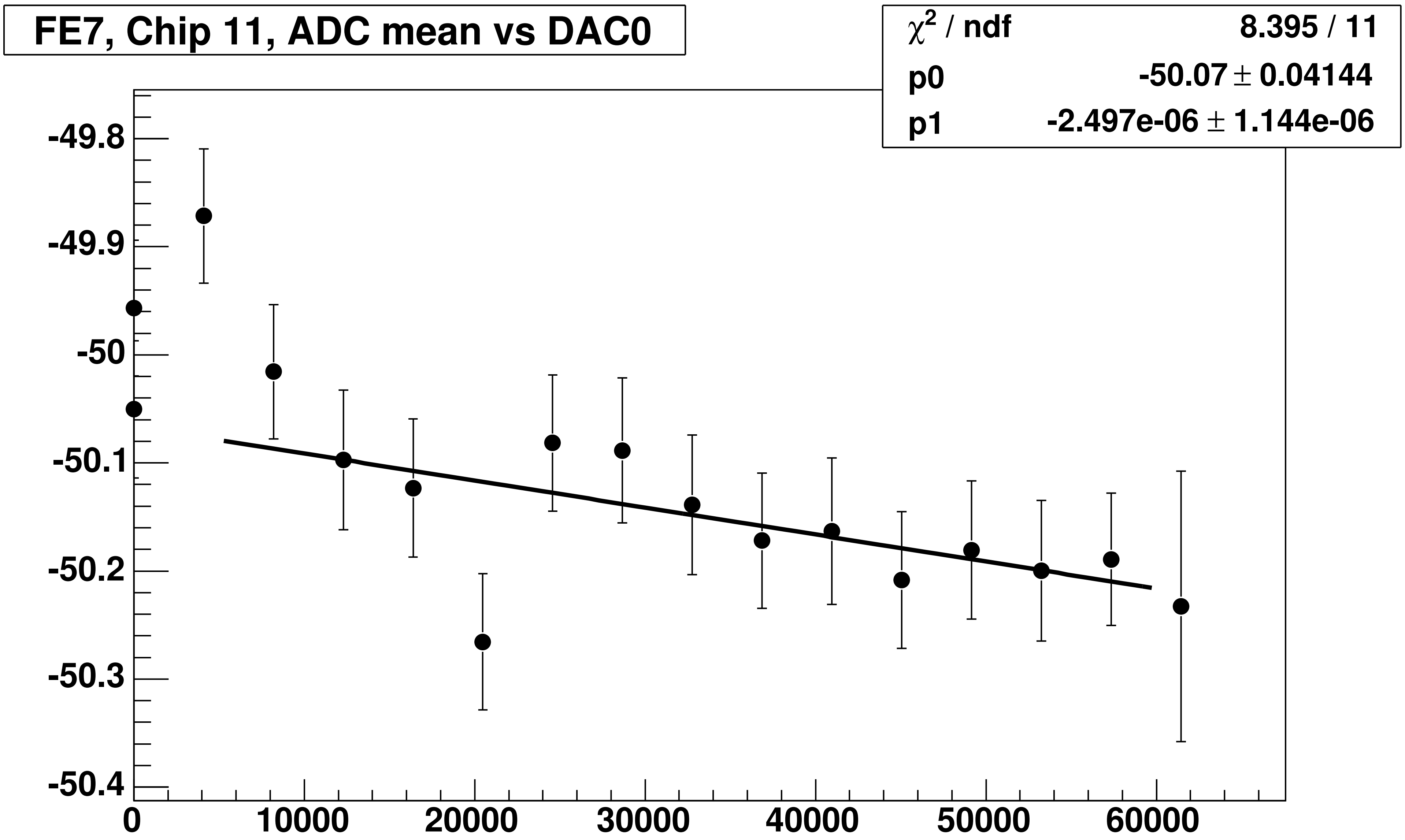

FE7, Chip 10, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

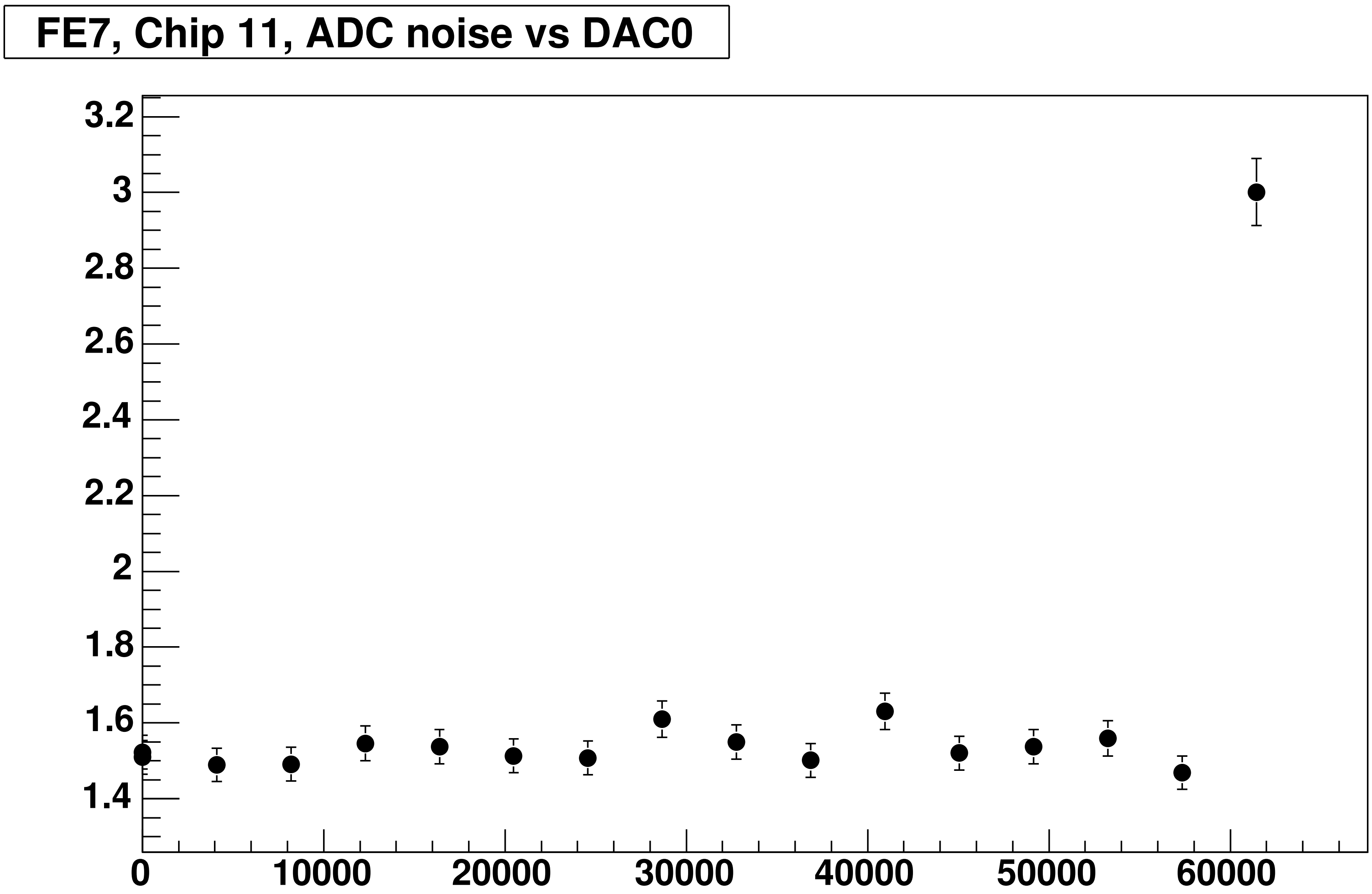


FE7, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1734 / 11
p0 -50.77 ± 0.04274
p1 0.4509 ± 1.36e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

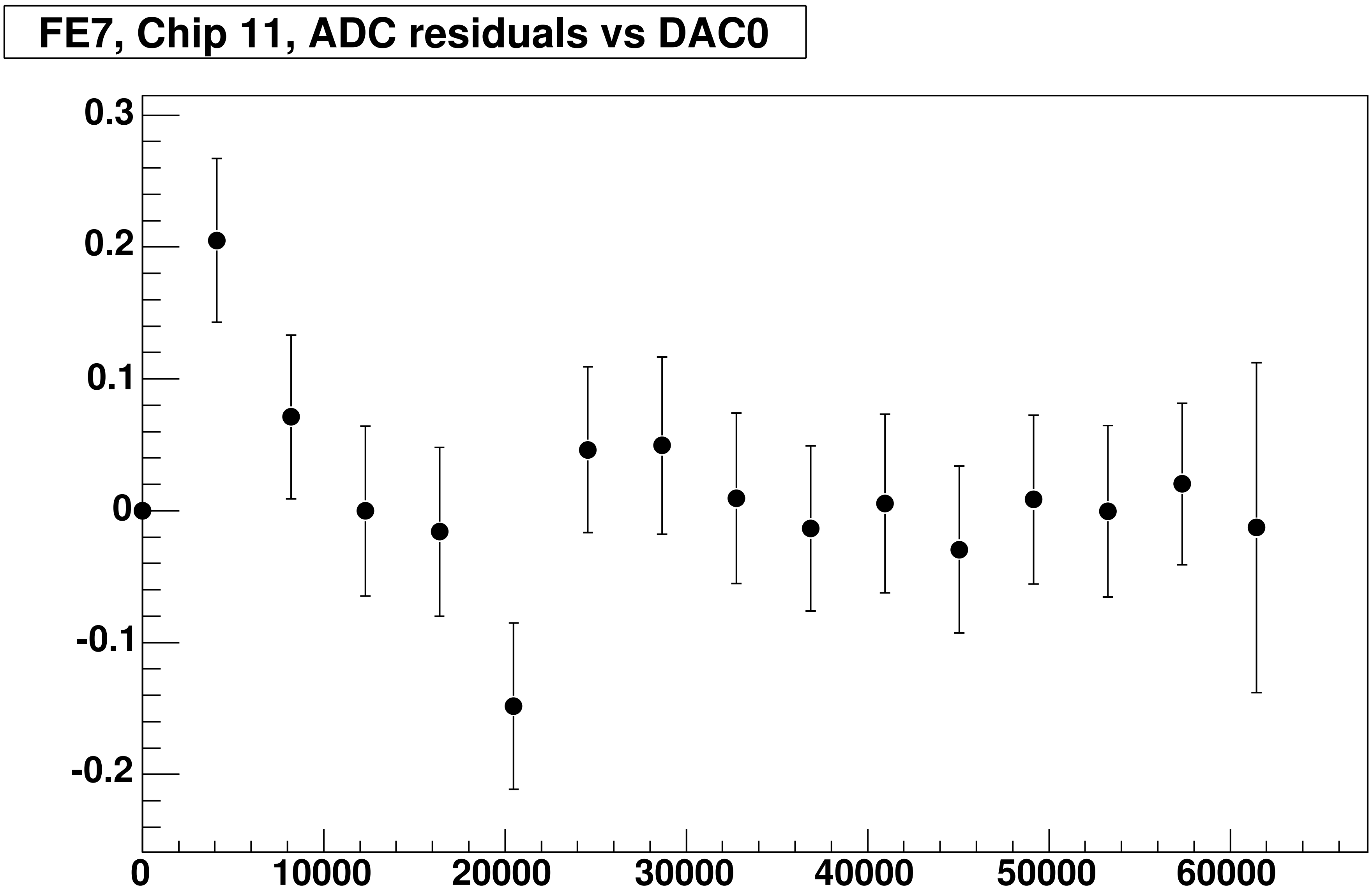

FE7, Chip 10, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

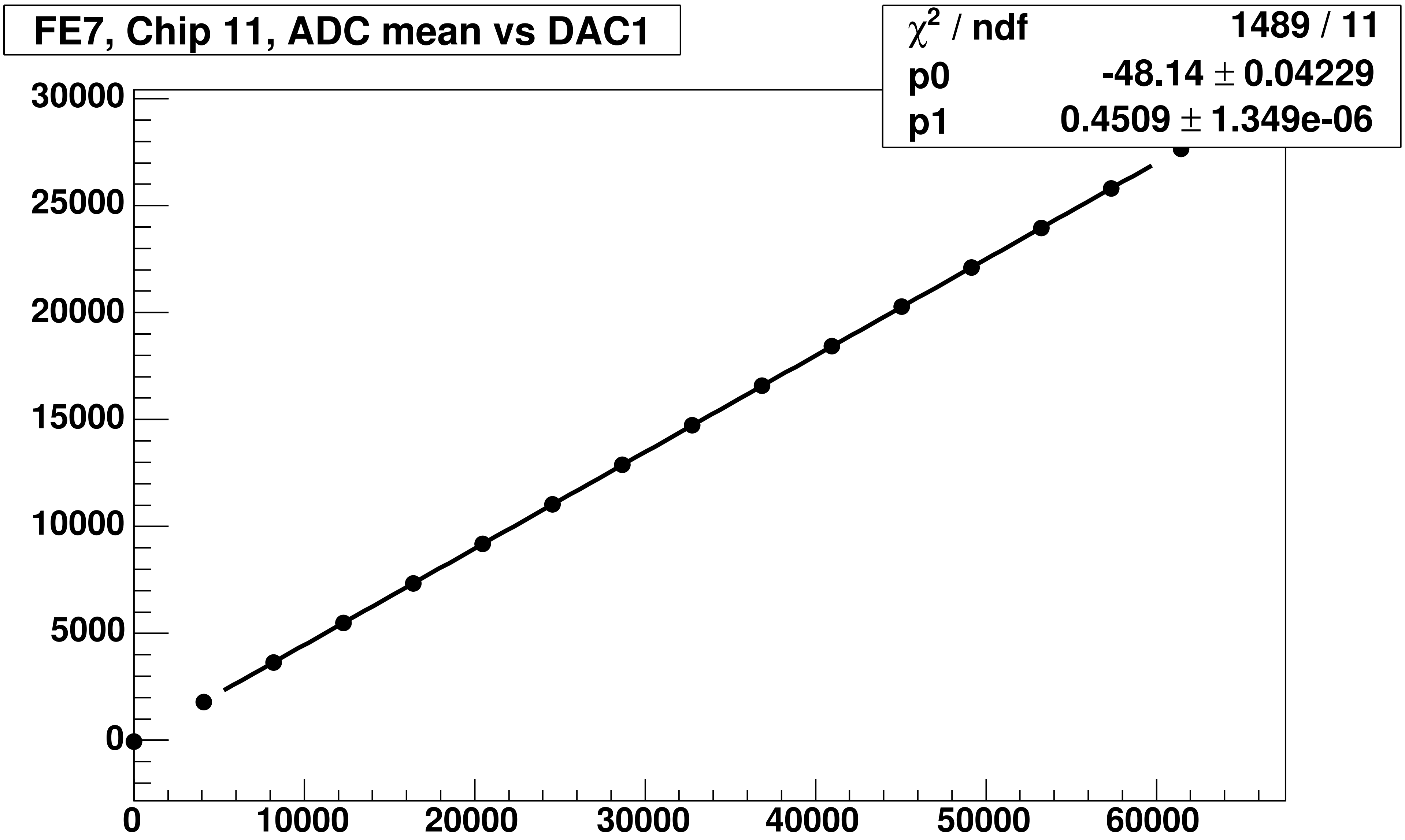

FE7, Chip 11, ADC mean vs DAC0
χ^2 / ndf 8.395 / 11
p0 -50.07 ± 0.04144
p1 -2.497e-06 ± 1.144e-06
-49.8
-49.9
-50
-50.1
-50.2
-50.3
-50.4
0
10000
20000
30000
40000
50000
60000



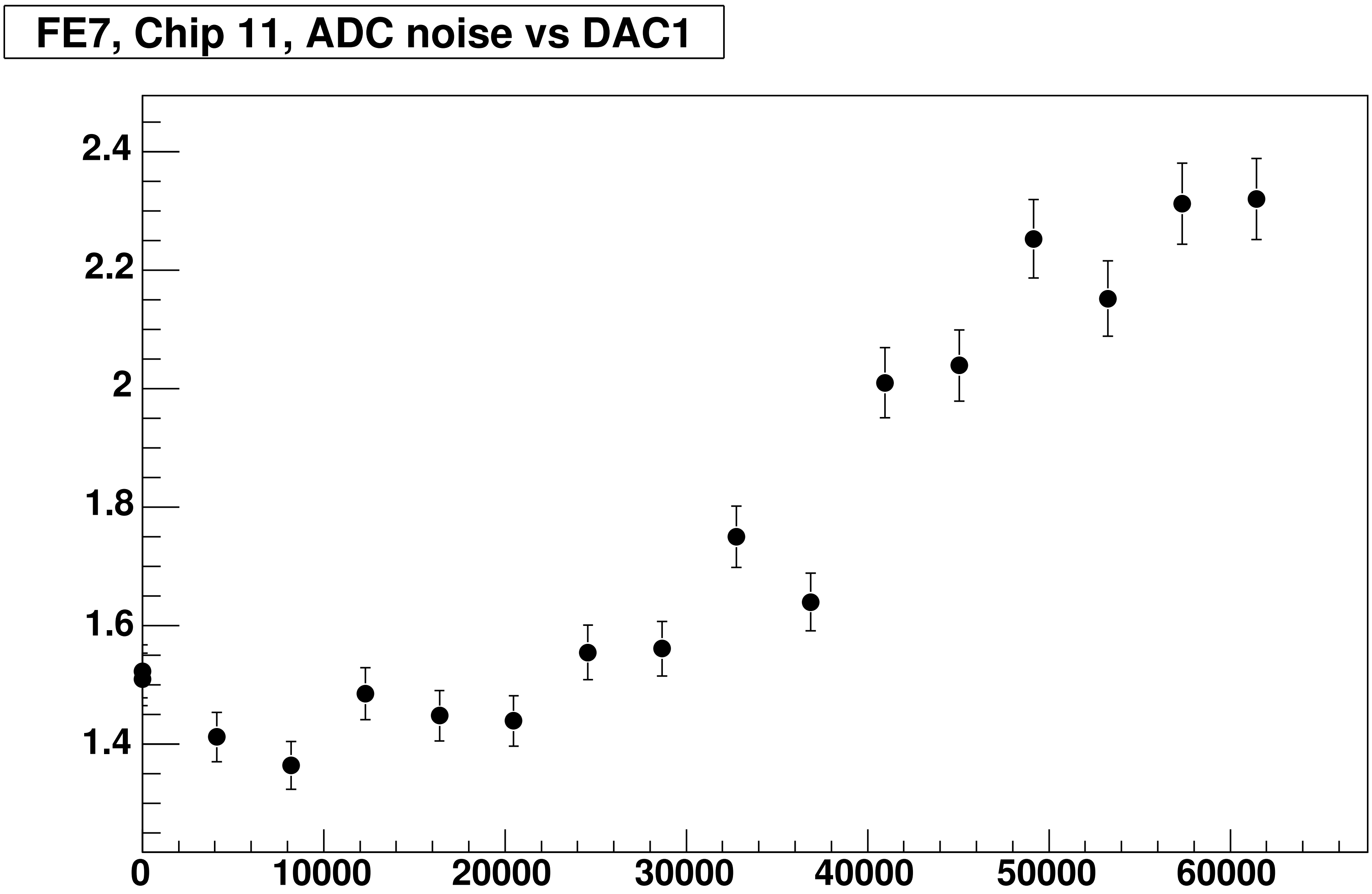
FE7, Chip 11, ADC noise vs DAC0
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



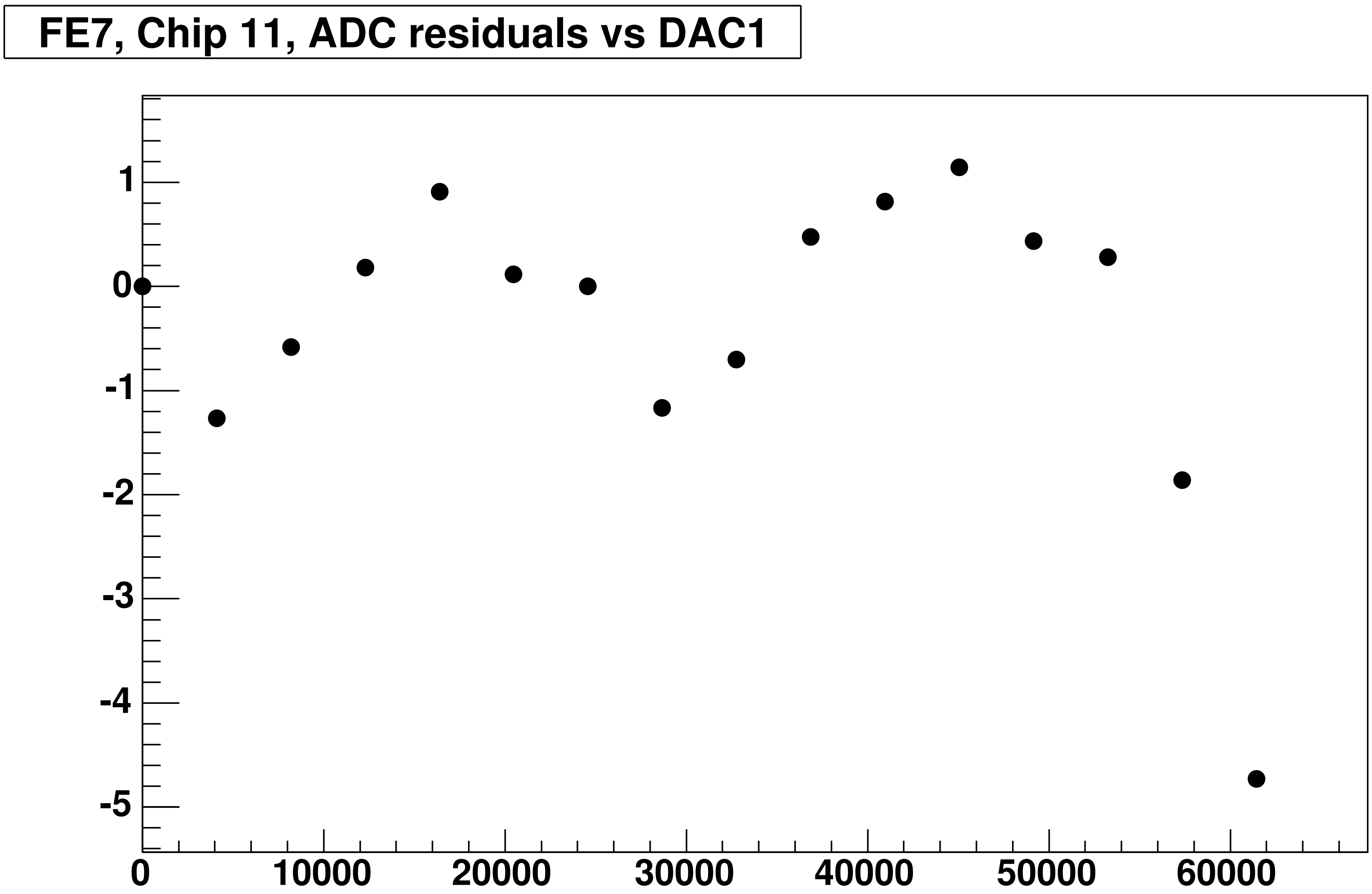
FE7, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

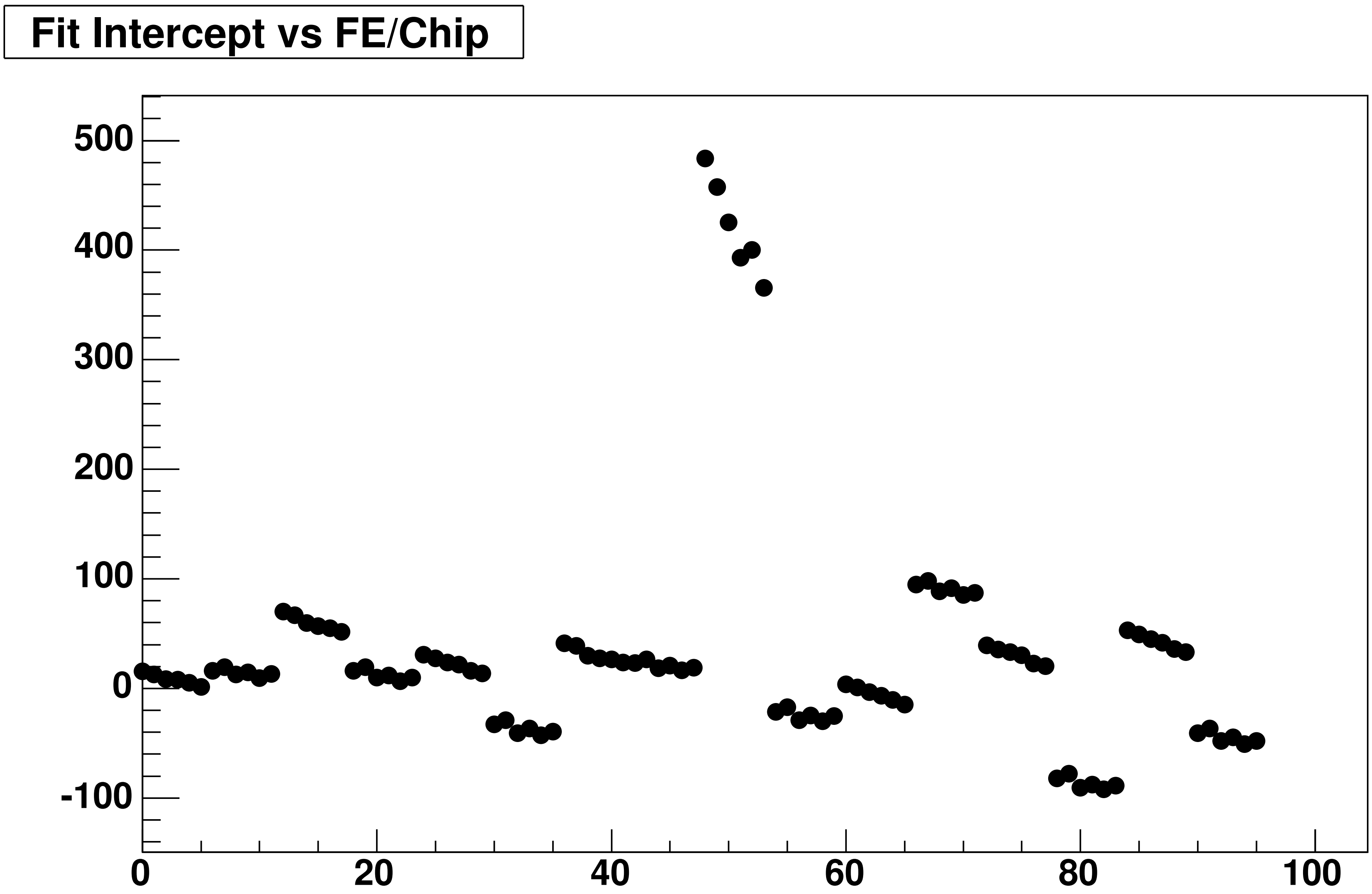


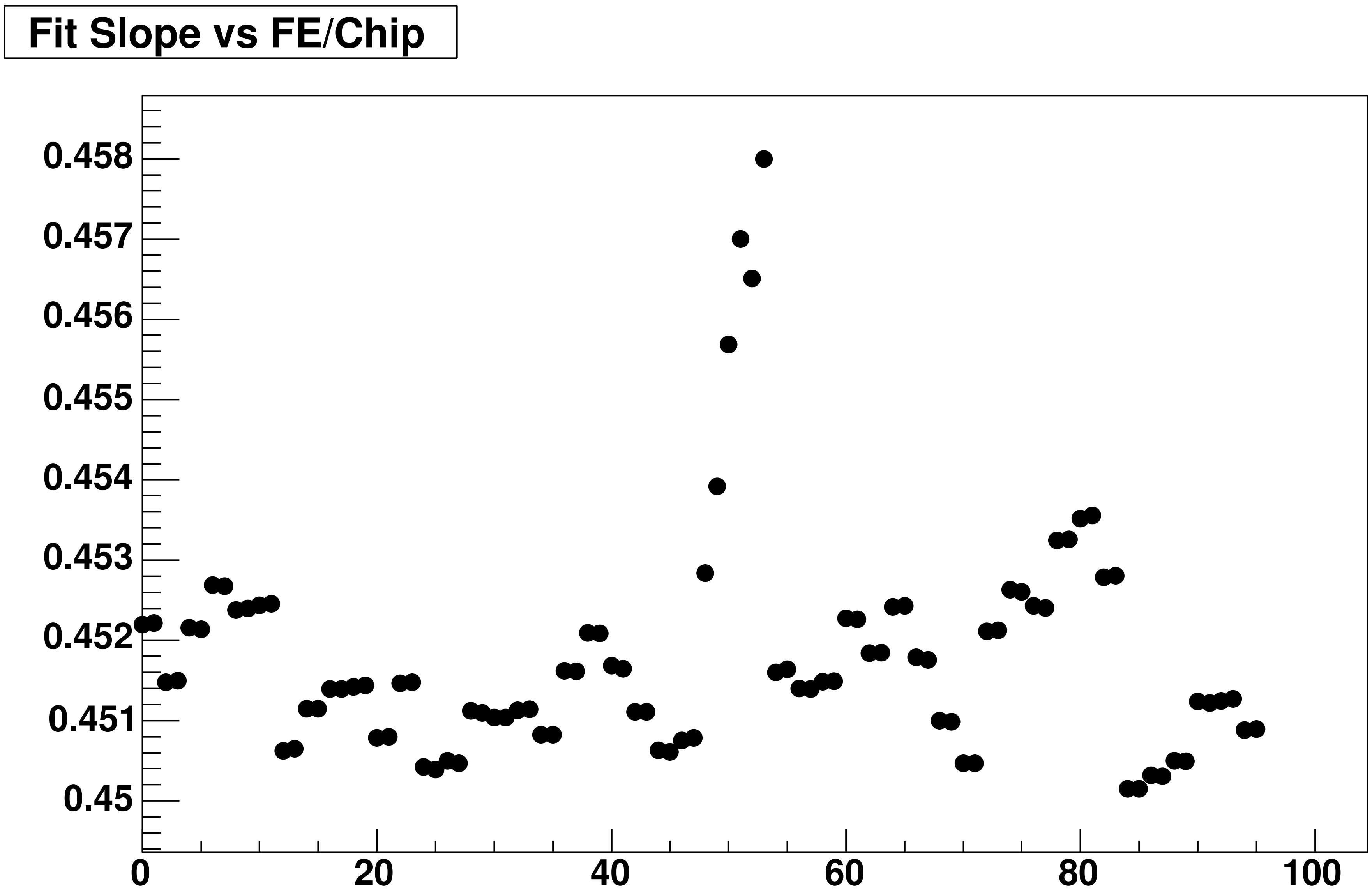
FE7, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1489 / 11
p0 -48.14 ± 0.04229
p1 0.4509 ± 1.349e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



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


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


Fit Intercept vs FE/Chip
500
400
300
200
100
0
-100
0
20
40
60
80
100



Fit Slope vs FE/Chip
0.458
0.457
0.456
0.455
0.454
0.453
0.452
0.451
0.45
0
20
40
60
80
100