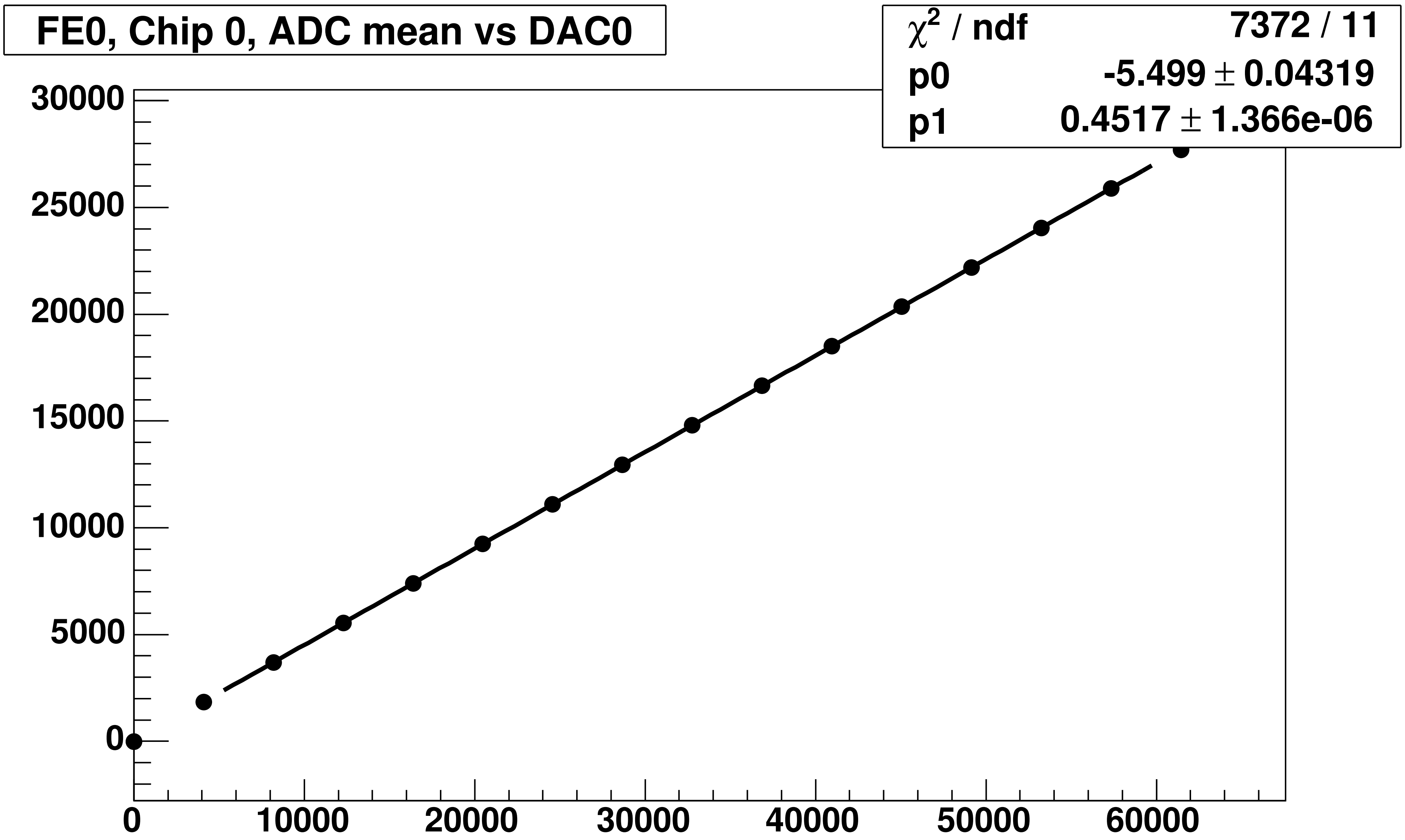
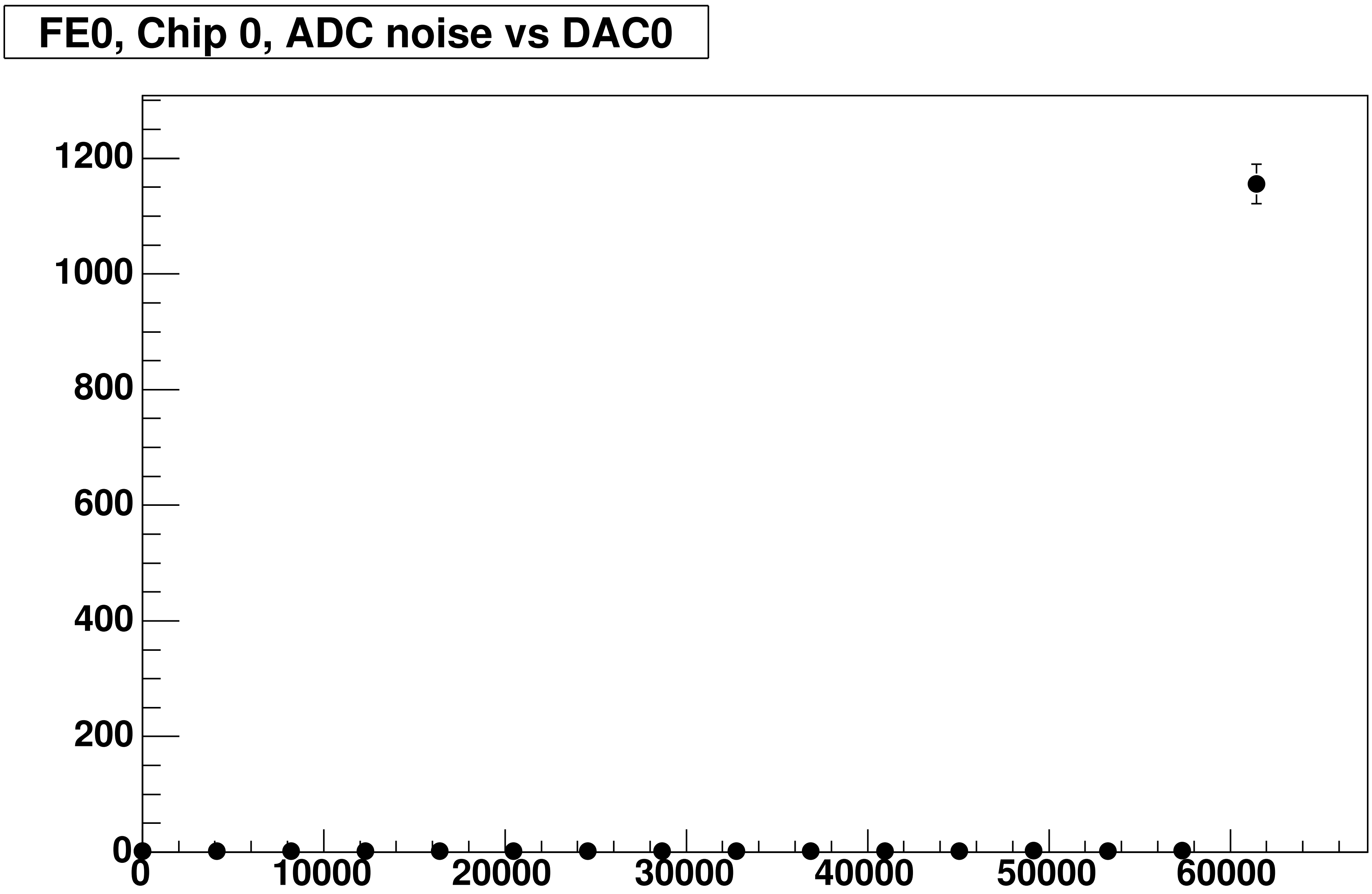
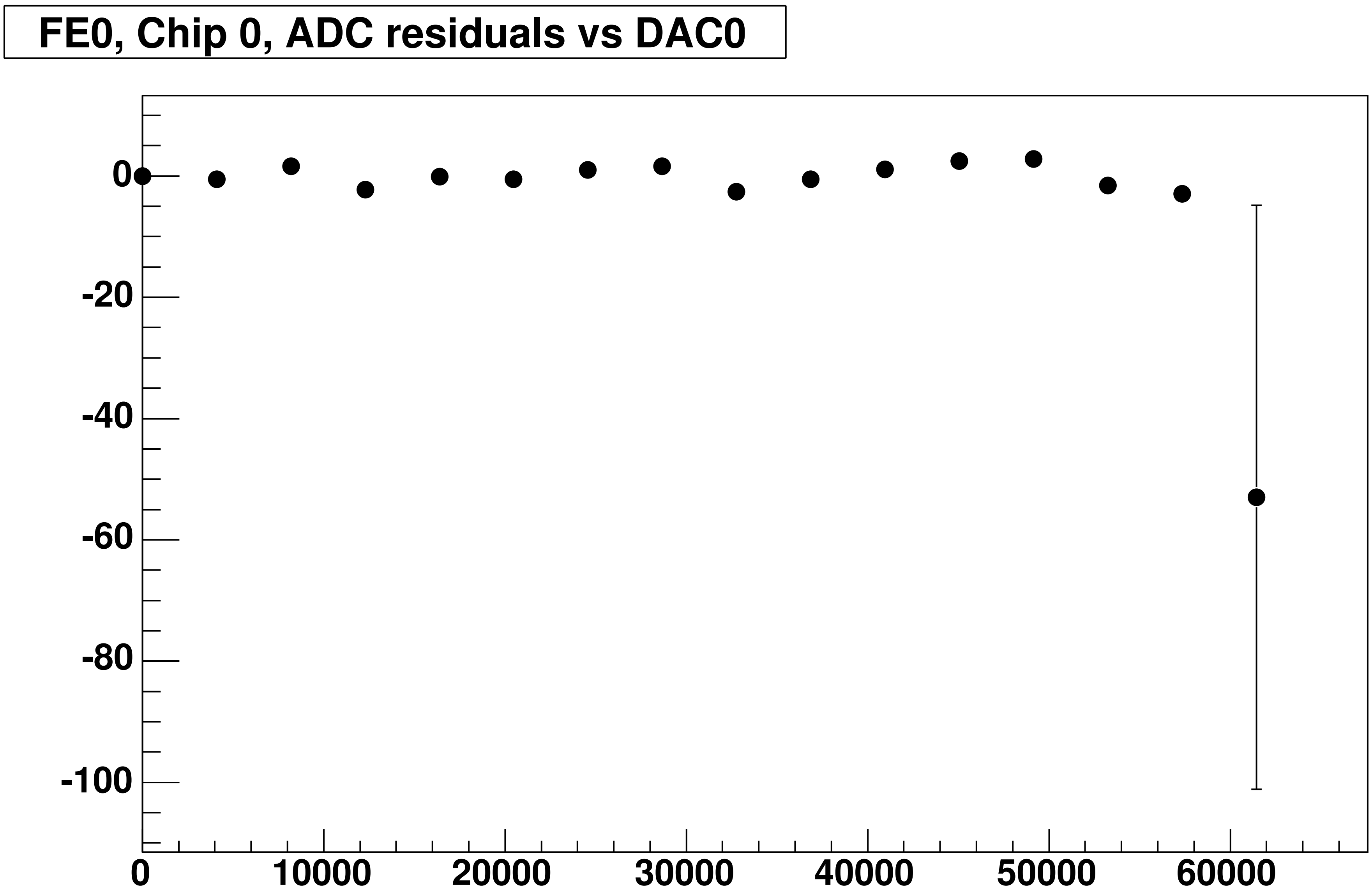
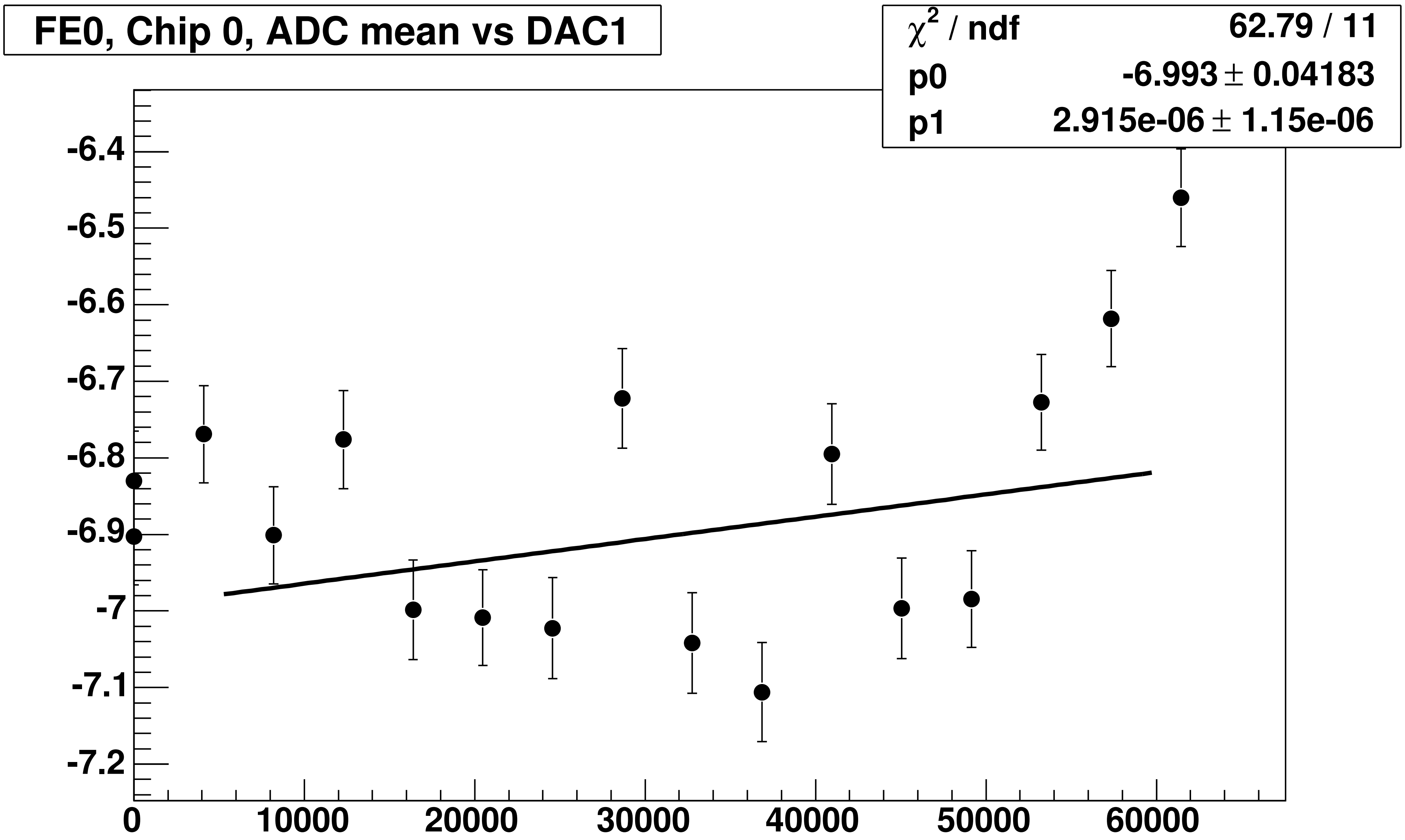


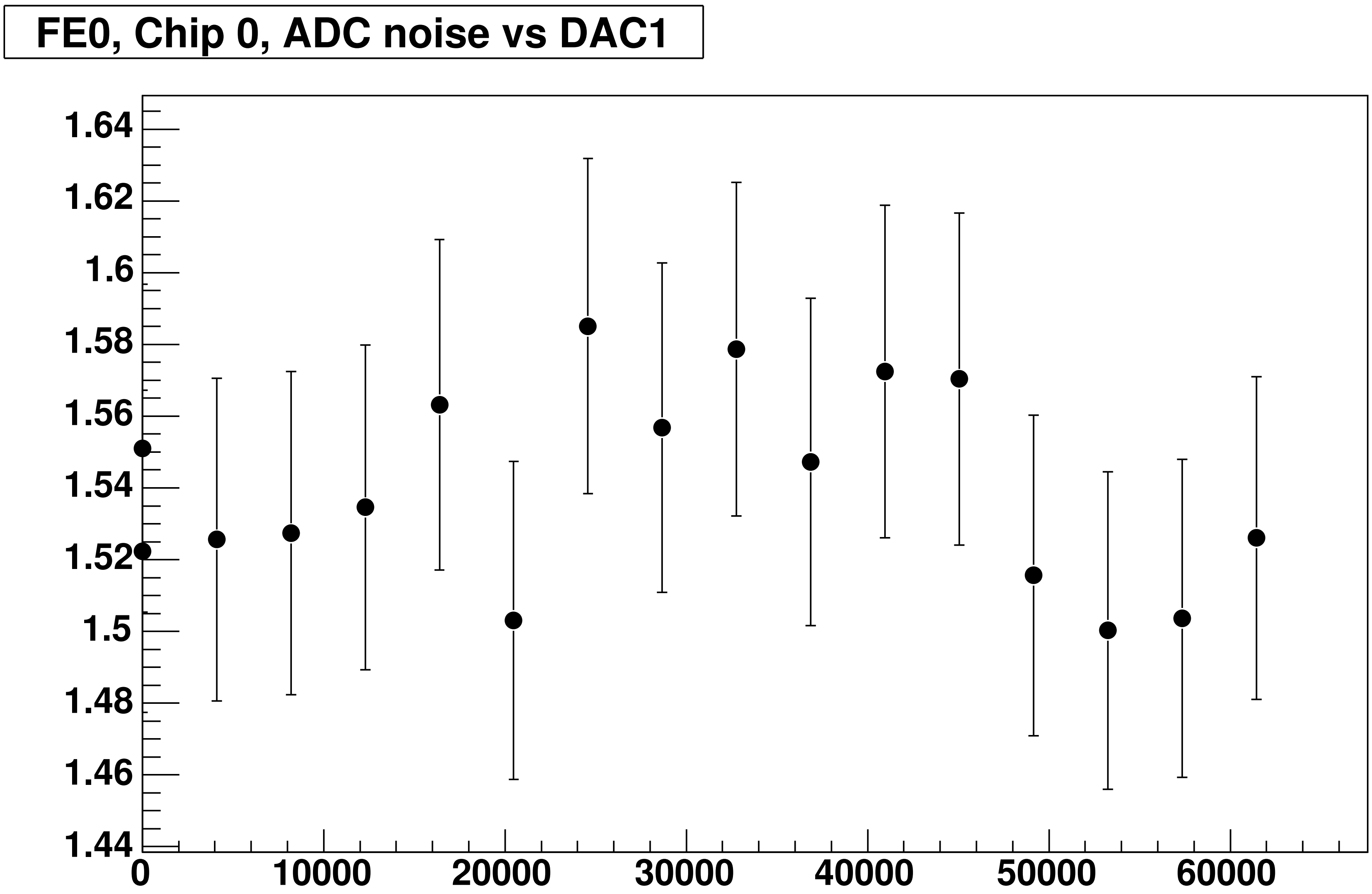
FE0, Chip 0, ADC mean vs DAC0
χ^2 / ndf 7372 / 11
p0 -5.499 ± 0.04319
p1 0.4517 ± 1.366e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

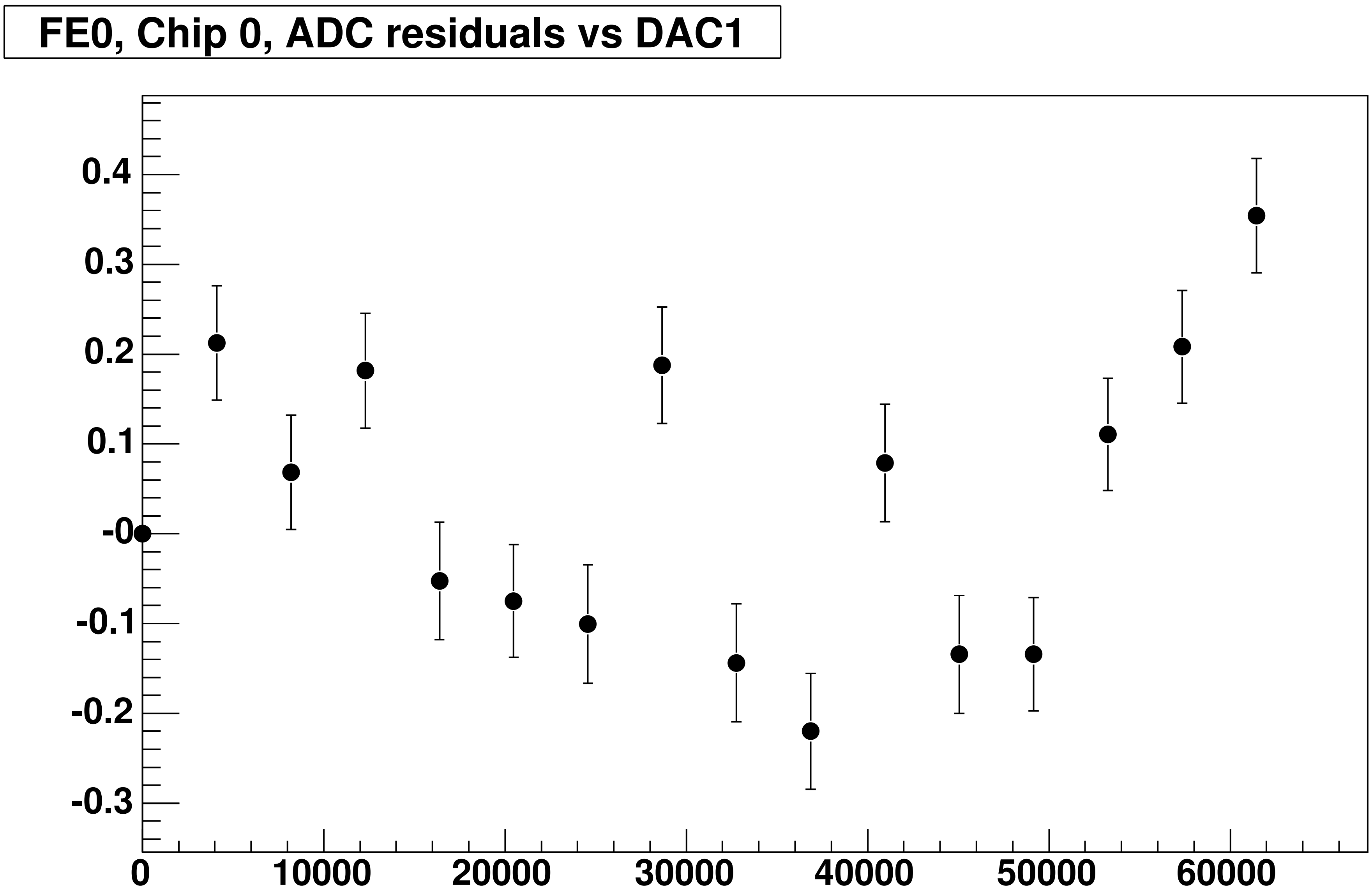

FE0, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

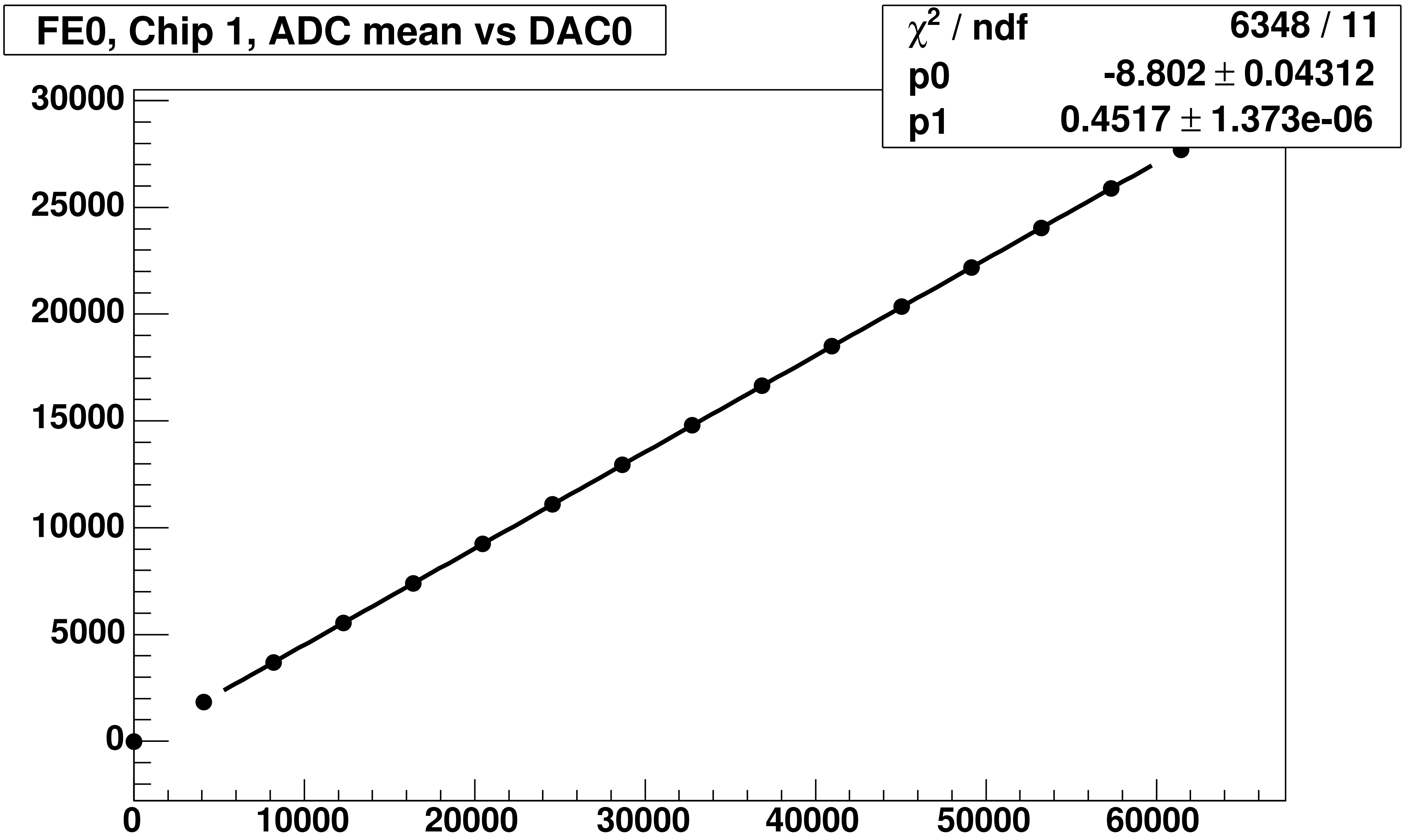


FE0, Chip 0, ADC mean vs DAC1
χ^2 / ndf 62.79 / 11
p0 -6.993 ± 0.04183
p1 2.915e-06 ± 1.15e-06
-6.4
-6.5
-6.6
-6.7
-6.8
-6.9
-7
-7.1
-7.2
0
10000
20000
30000
40000
50000
60000

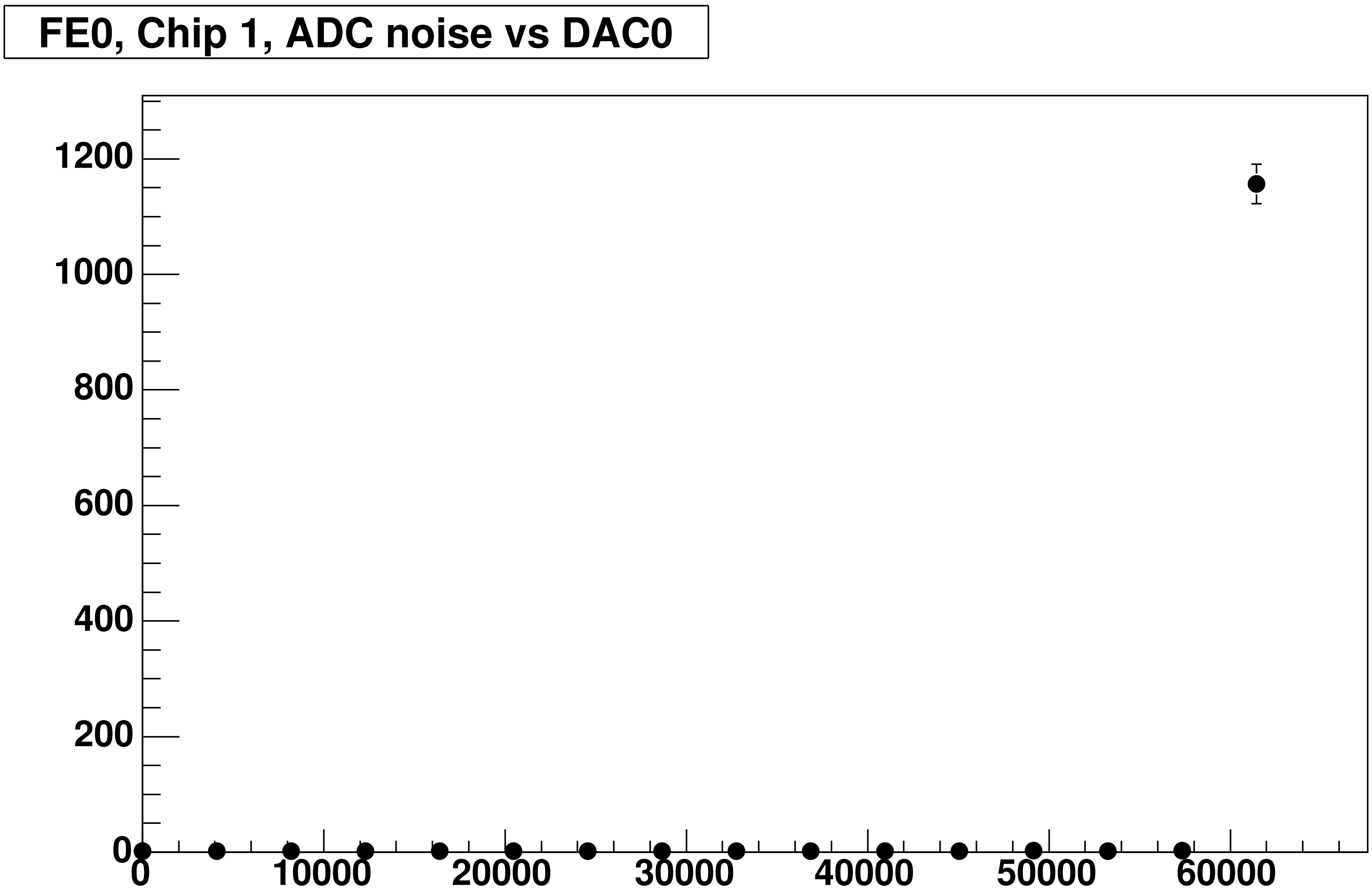


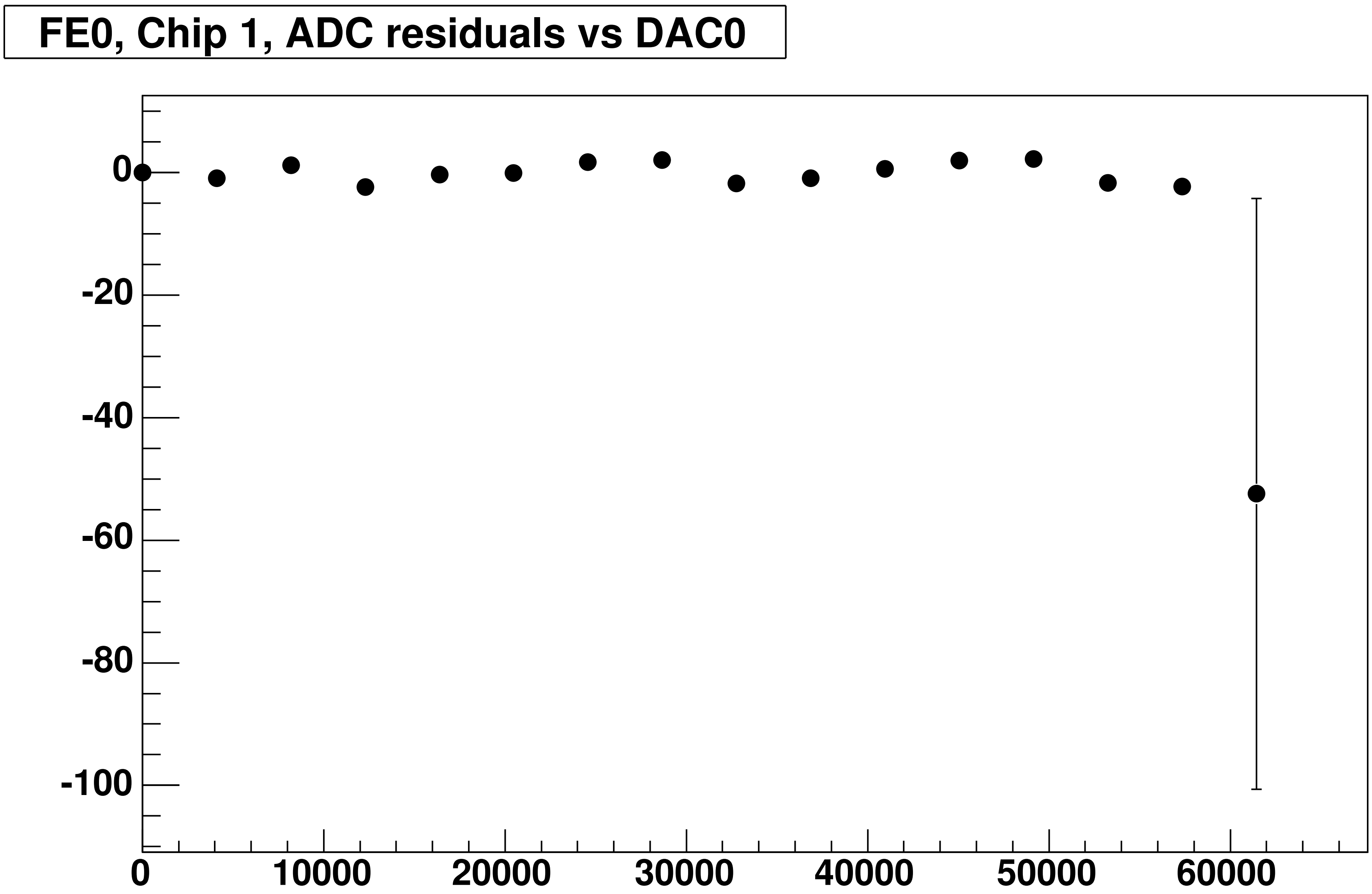
FE0, Chip 0, ADC noise vs DAC1
1.64
1.62
1.6
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
0
10000
20000
30000
40000
50000
60000

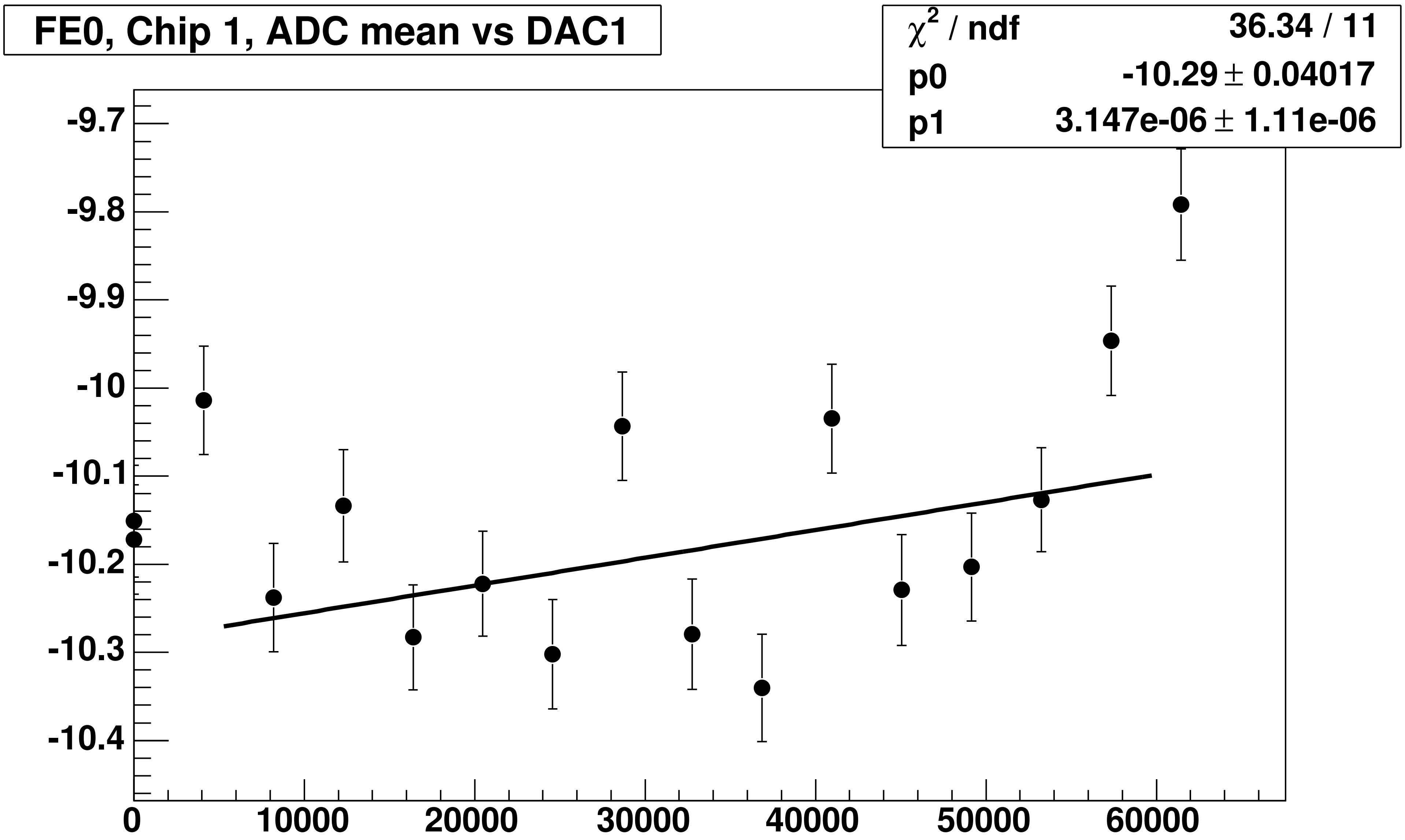

FE0, Chip 0, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



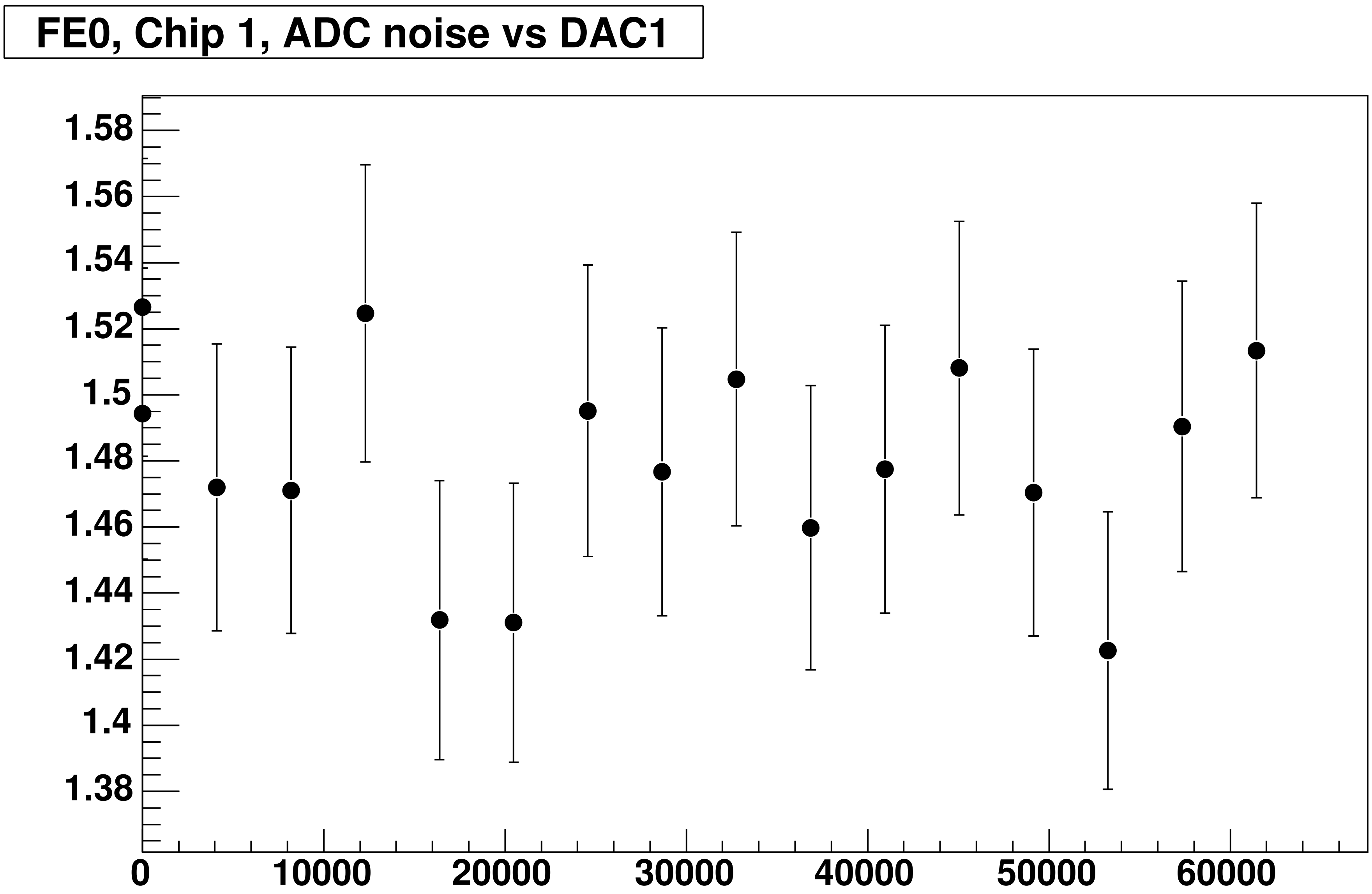
FE0, Chip 1, ADC mean vs DAC0
χ2 / ndf 6348 / 11
p0 -8.802 ± 0.04312
p1 0.4517 ± 1.373e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

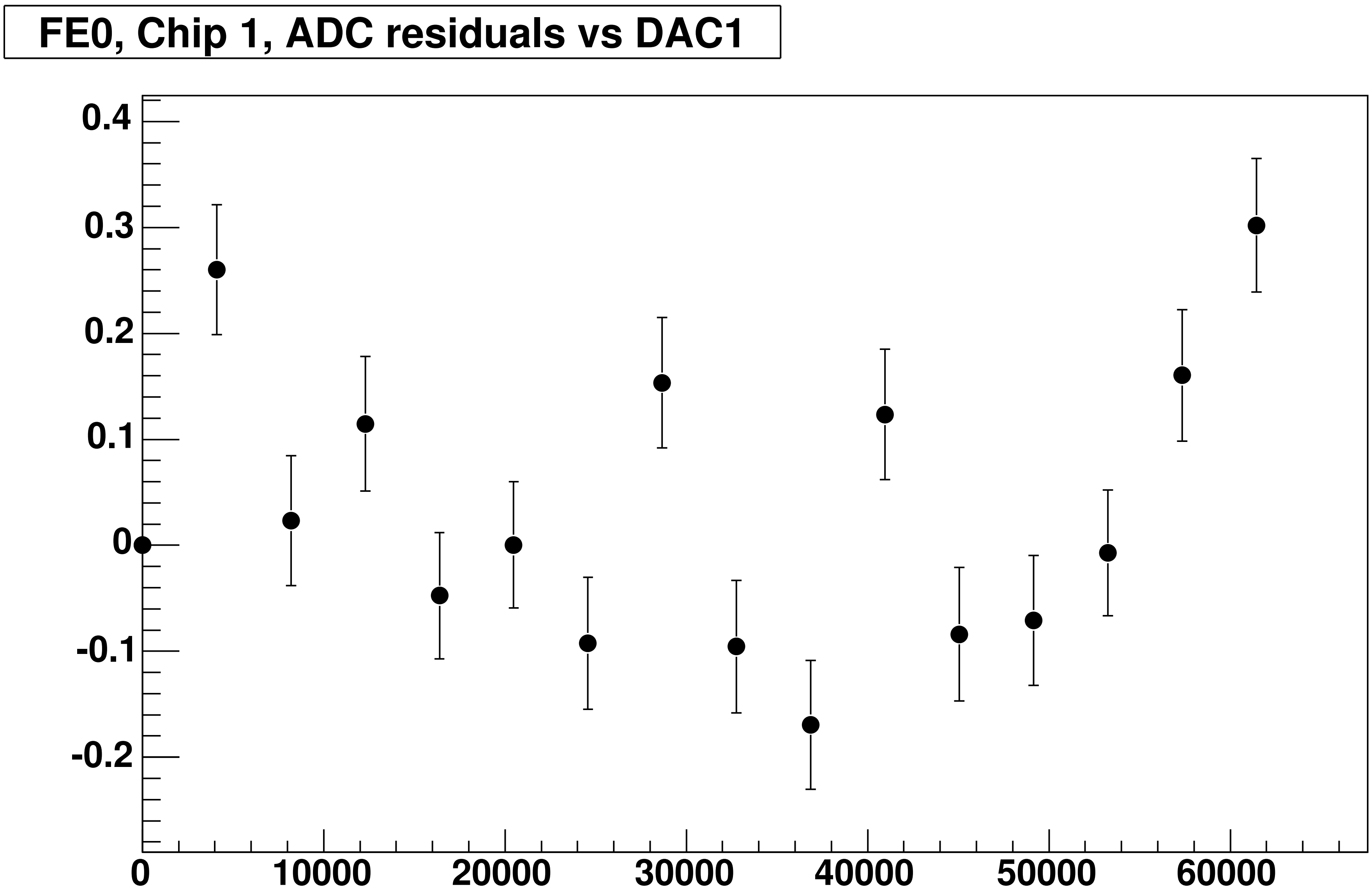

FE0, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

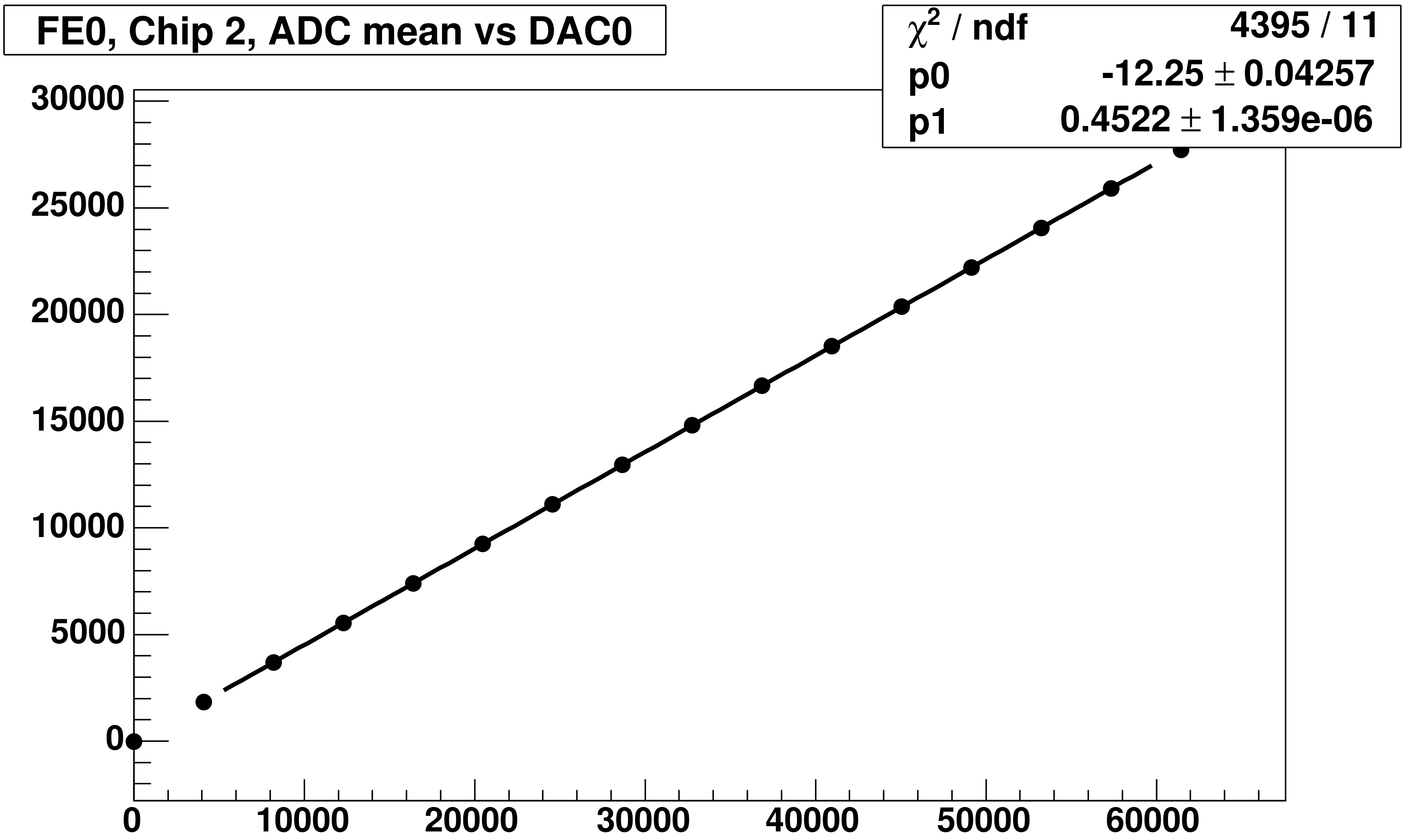


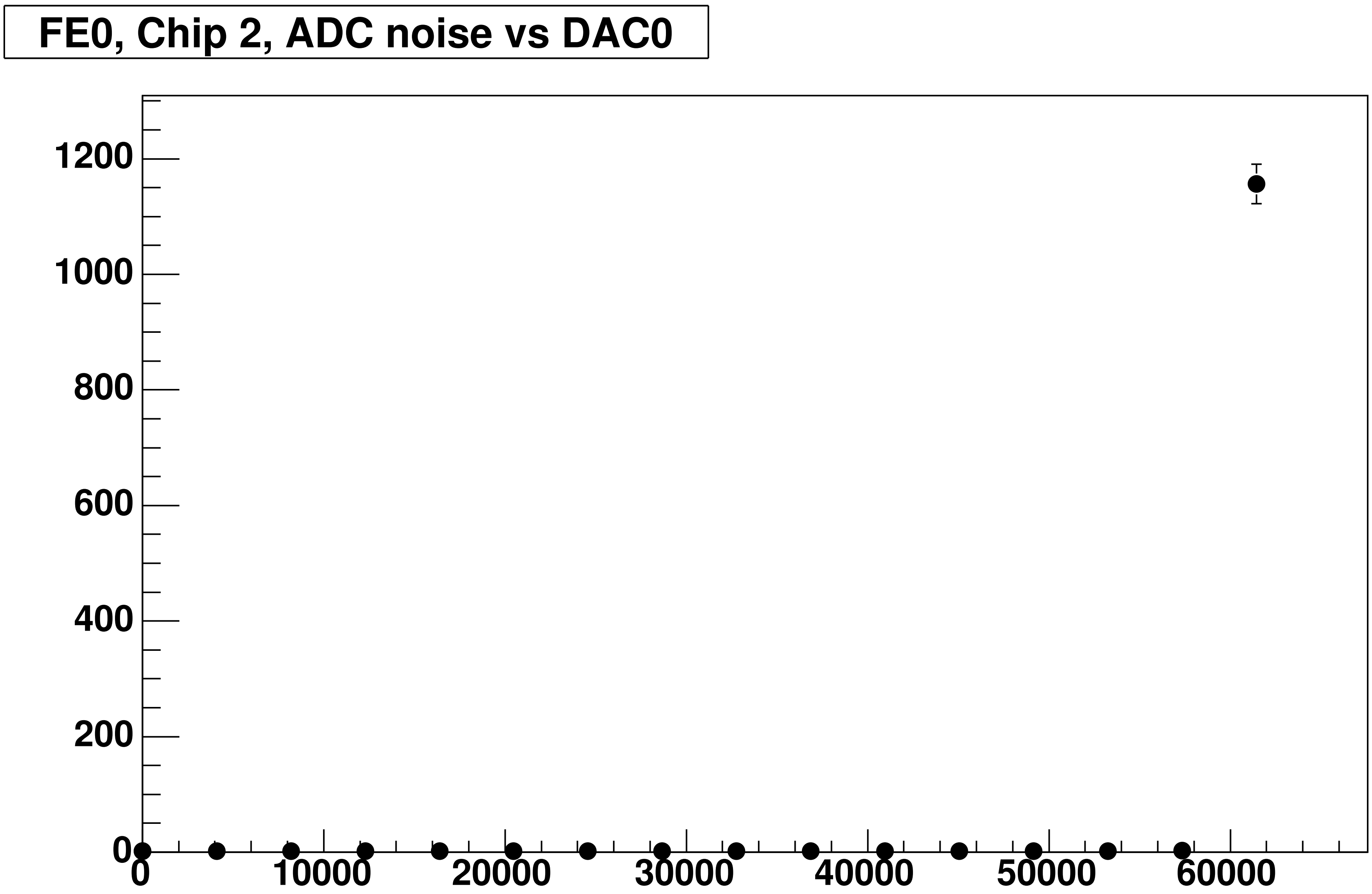
FE0, Chip 1, ADC mean vs DAC1
χ2 / ndf 36.34 / 11
p0 -10.29 ± 0.04017
p1 3.147e-06 ± 1.11e-06
-9.7
-9.8
-9.9
-10
-10.1
-10.2
-10.3
-10.4
0
10000
20000
30000
40000
50000
60000


FE0, Chip 1, 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

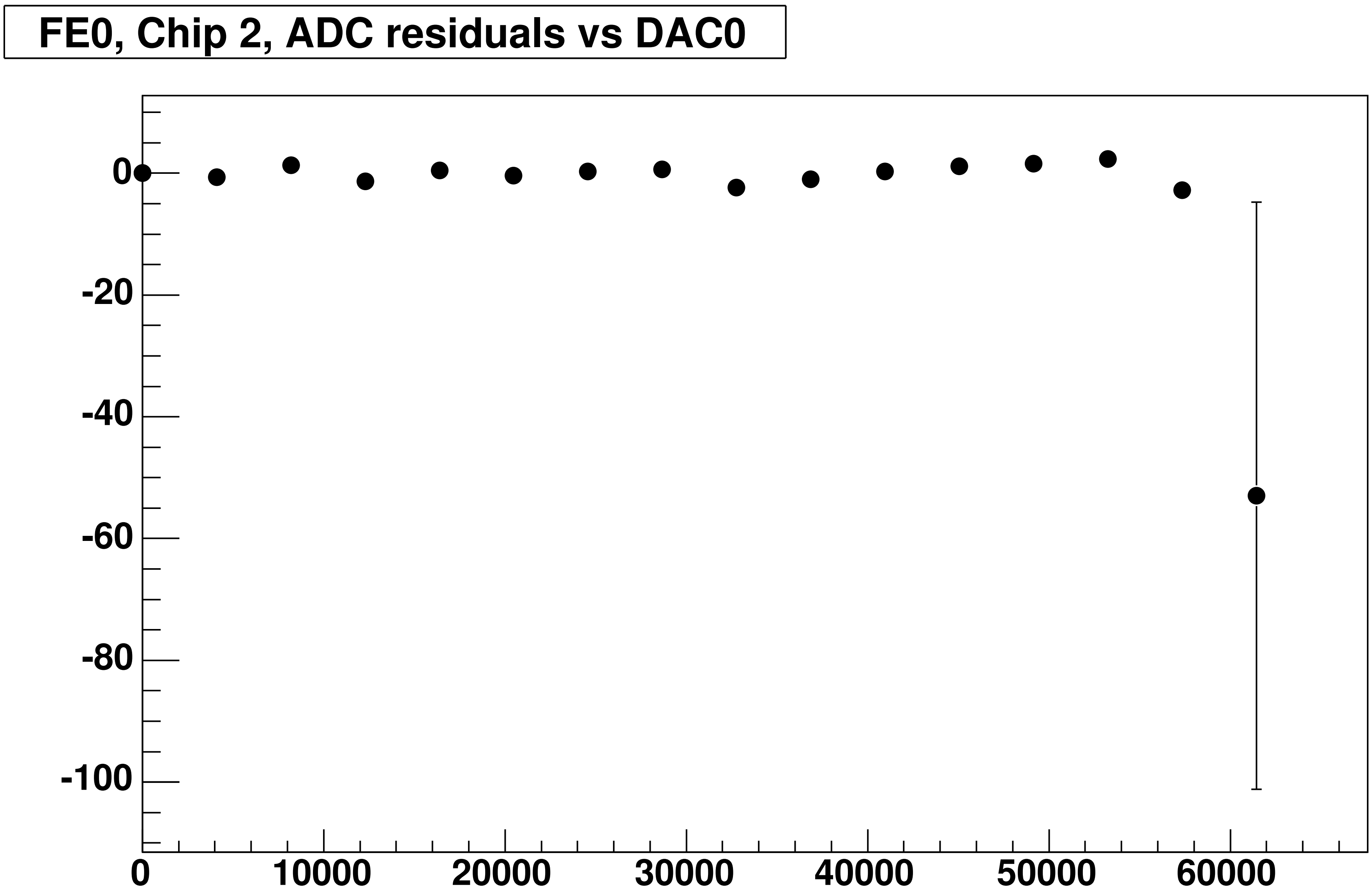


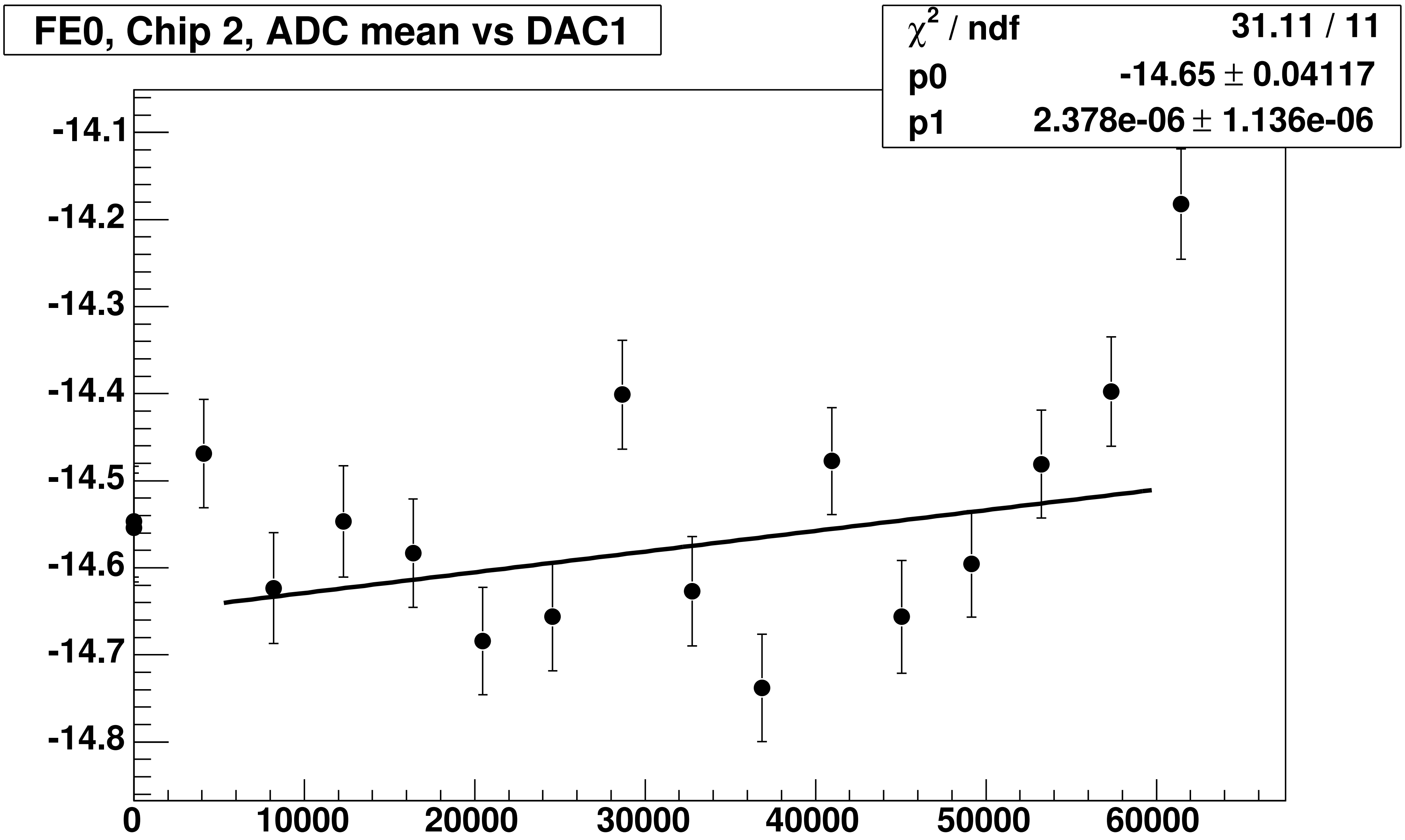
FE0, Chip 1, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE0, Chip 2, ADC mean vs DAC0
χ^2 / ndf 4395 / 11
p0 -12.25 ± 0.04257
p1 0.4522 ± 1.359e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

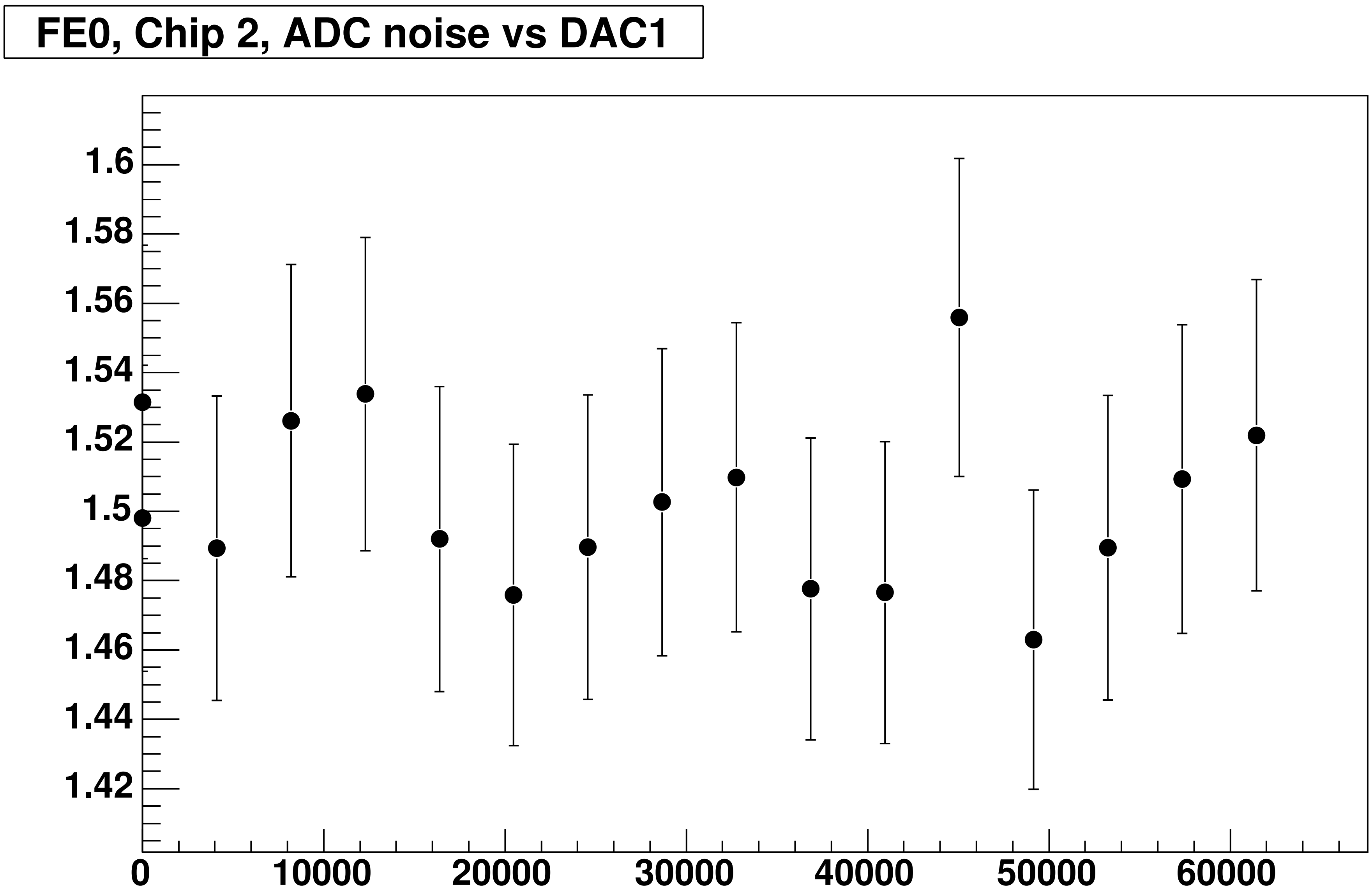


FE0, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

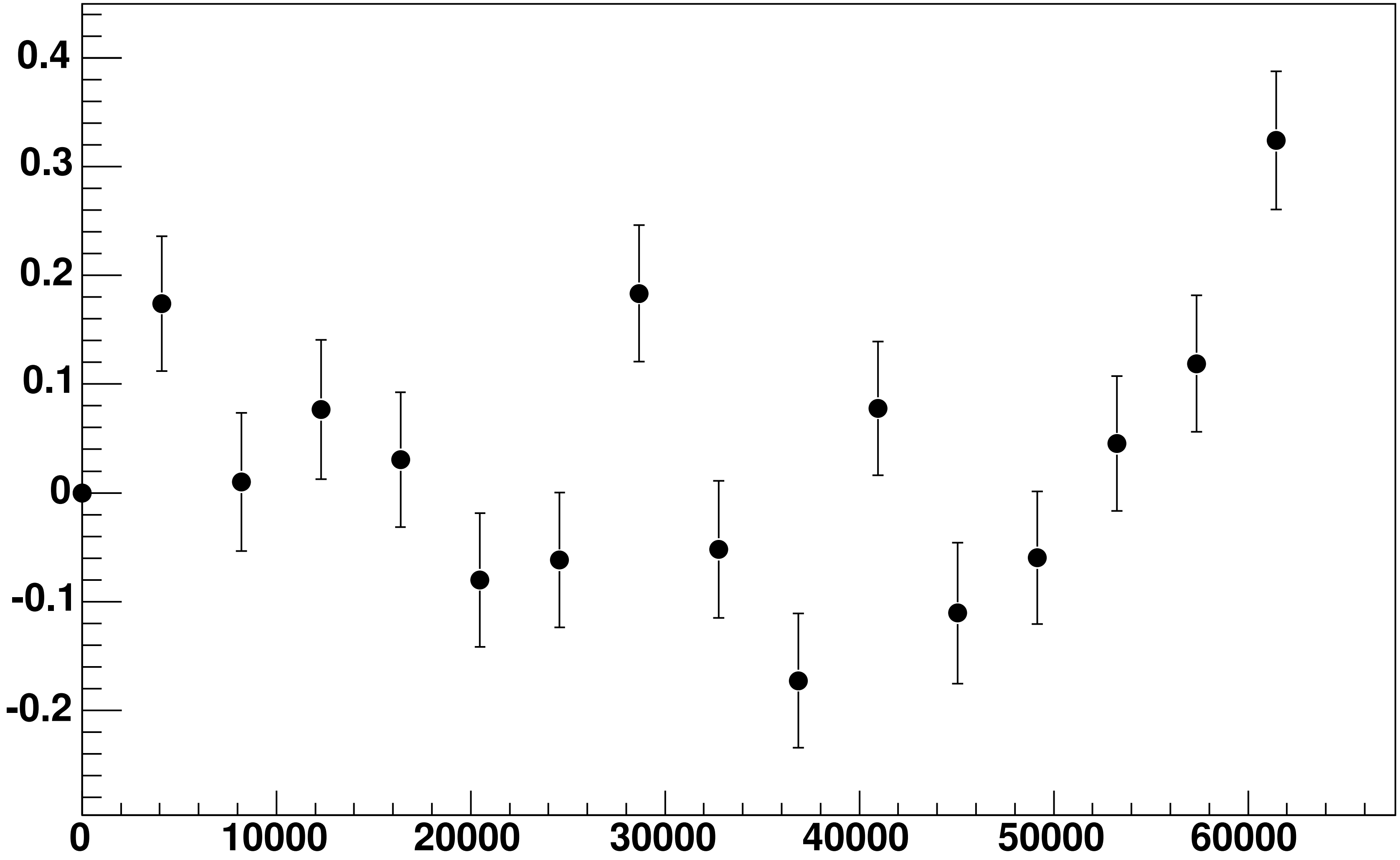

FE0, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

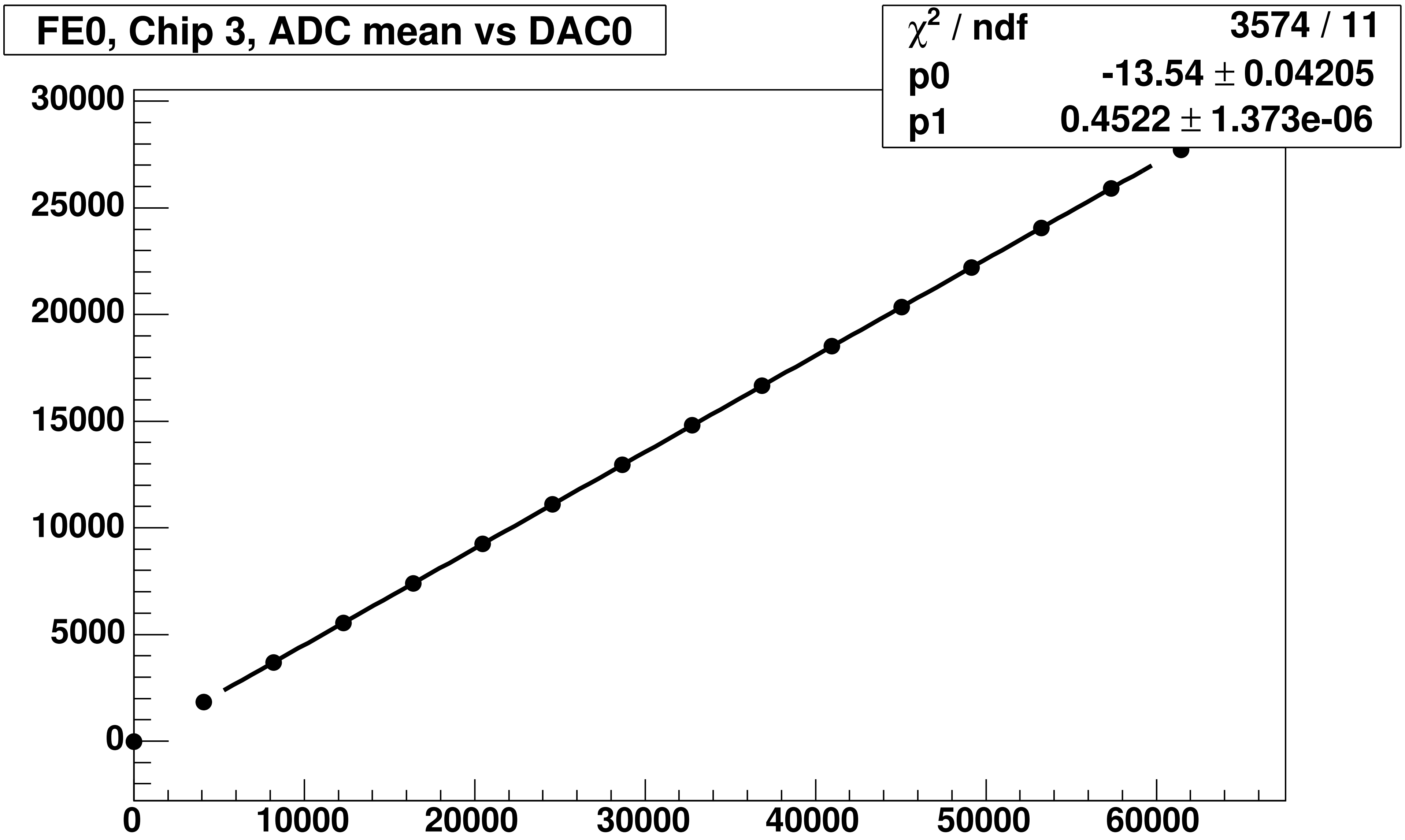


FE0, Chip 2, ADC mean vs DAC1
χ^2 / ndf 31.11 / 11
p0 -14.65 ± 0.04117
p1 2.378e-06 ± 1.136e-06
-14.1
-14.2
-14.3
-14.4
-14.5
-14.6
-14.7
-14.8
0
10000
20000
30000
40000
50000
60000

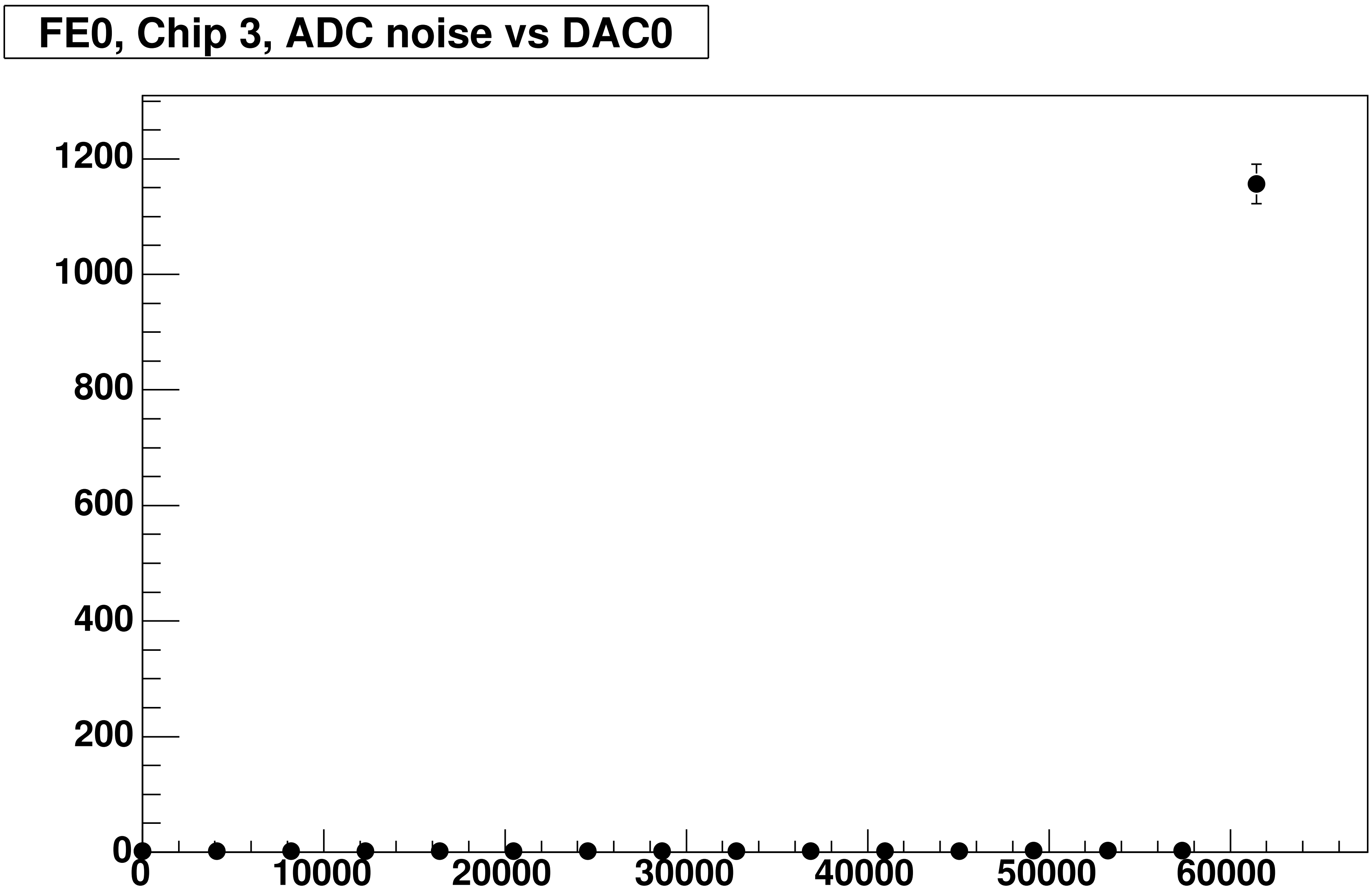

FE0, Chip 2, ADC noise vs DAC1
1.6
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
0
10000
20000
30000
40000
50000
60000

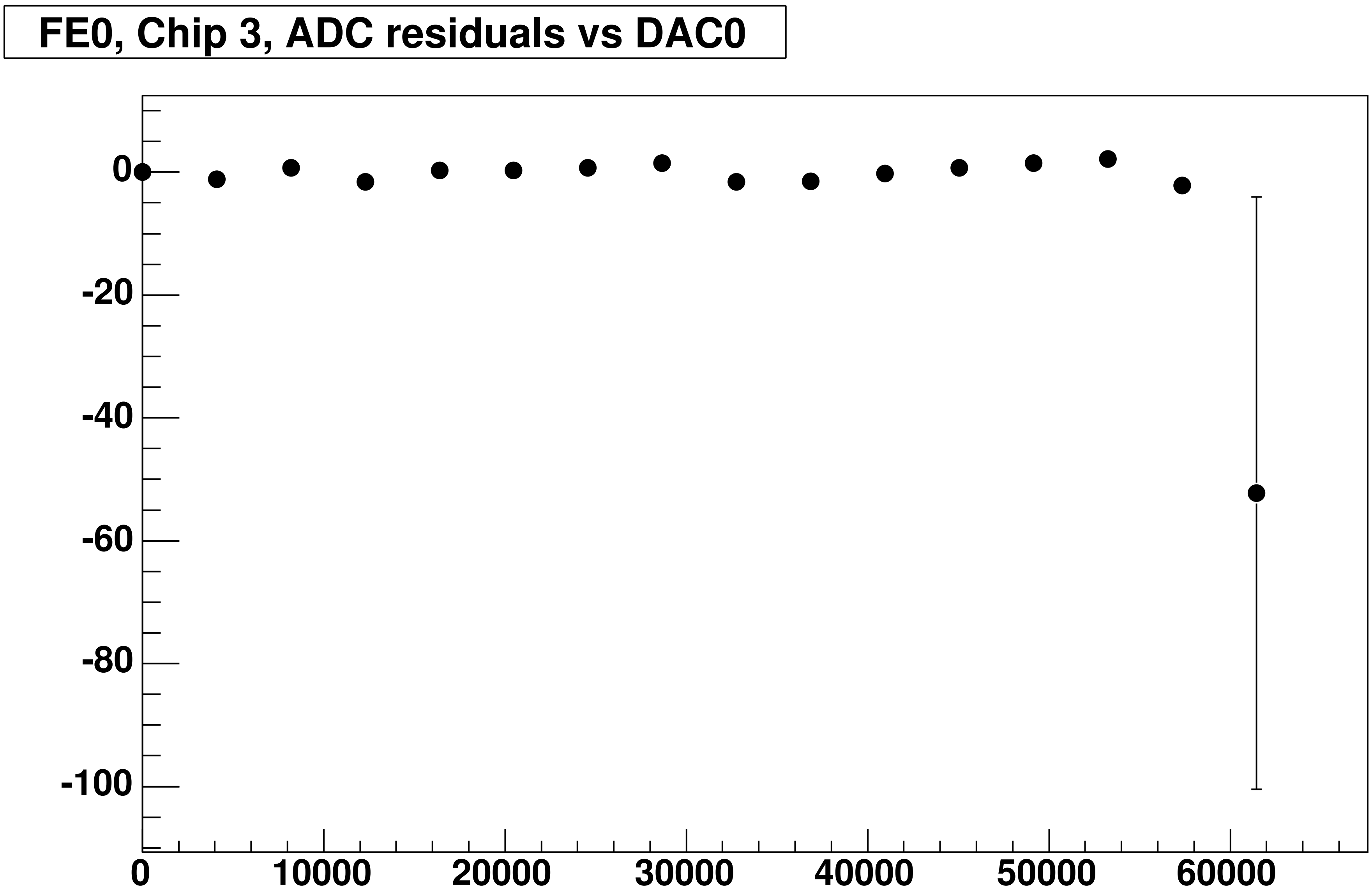
FE0, Chip 2, ADC residuals vs DAC1

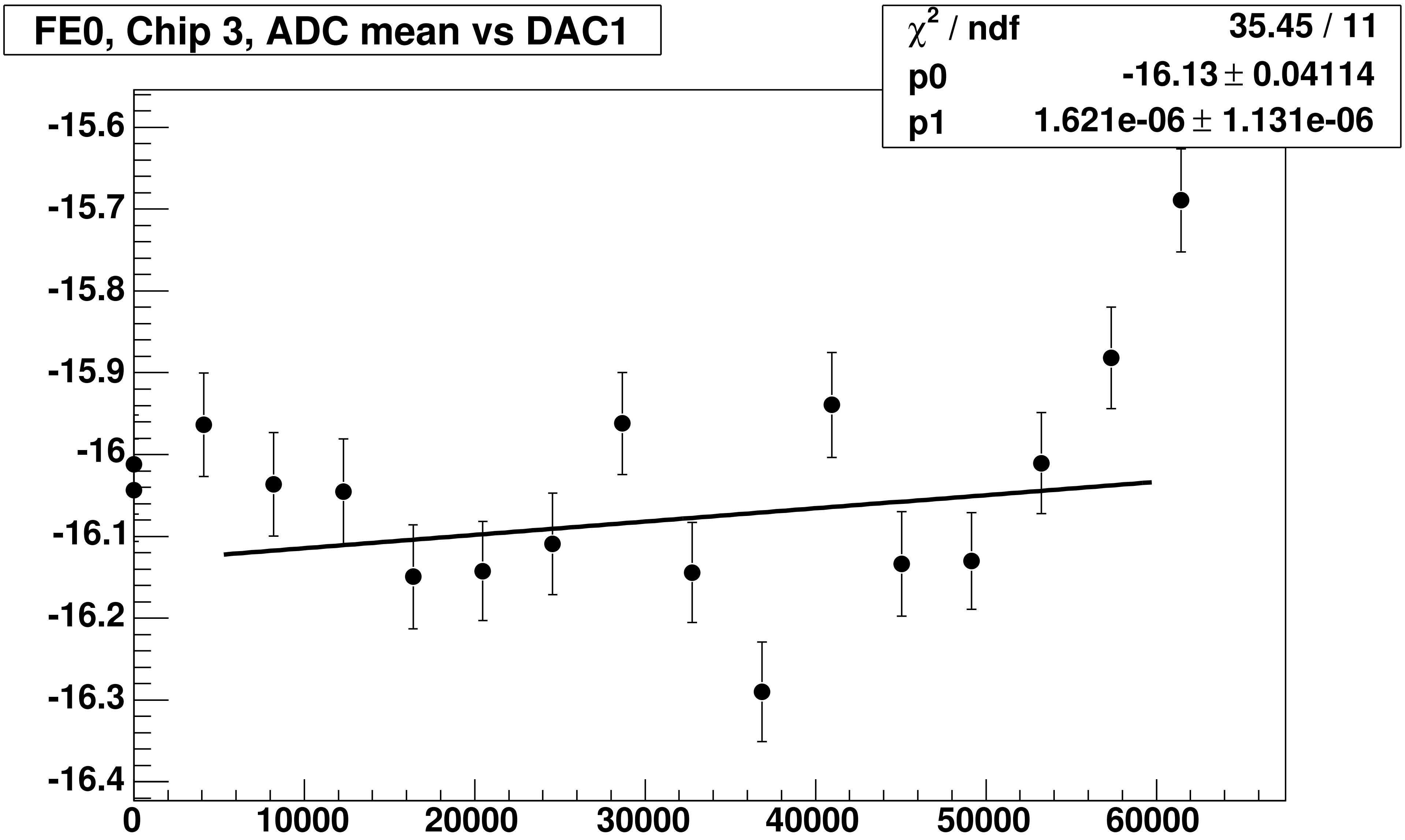




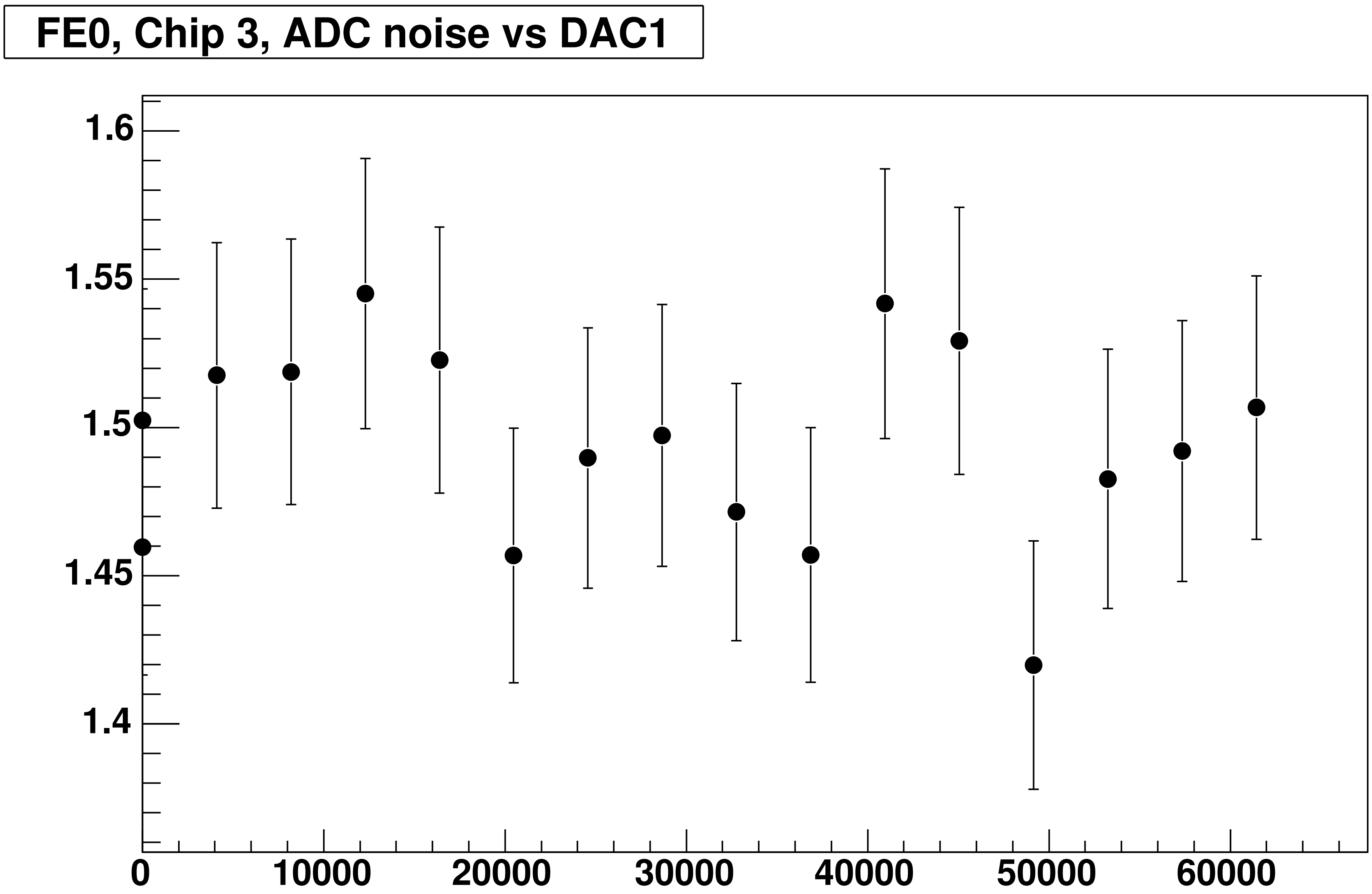
FE0, Chip 3, ADC mean vs DAC0
χ^2 / ndf 3574 / 11
p0 -13.54 ± 0.04205
p1 0.4522 ± 1.373e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

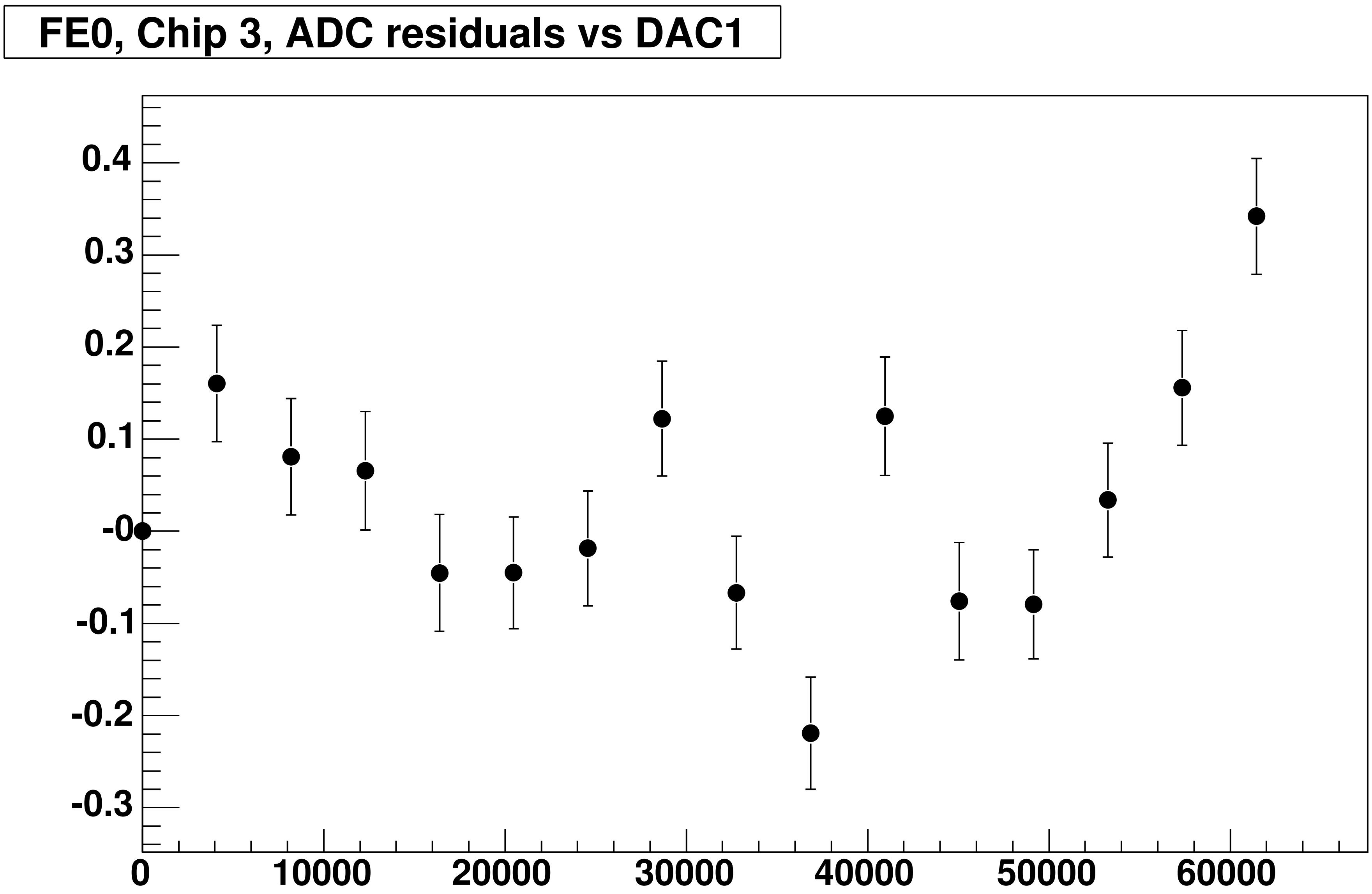

FE0, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

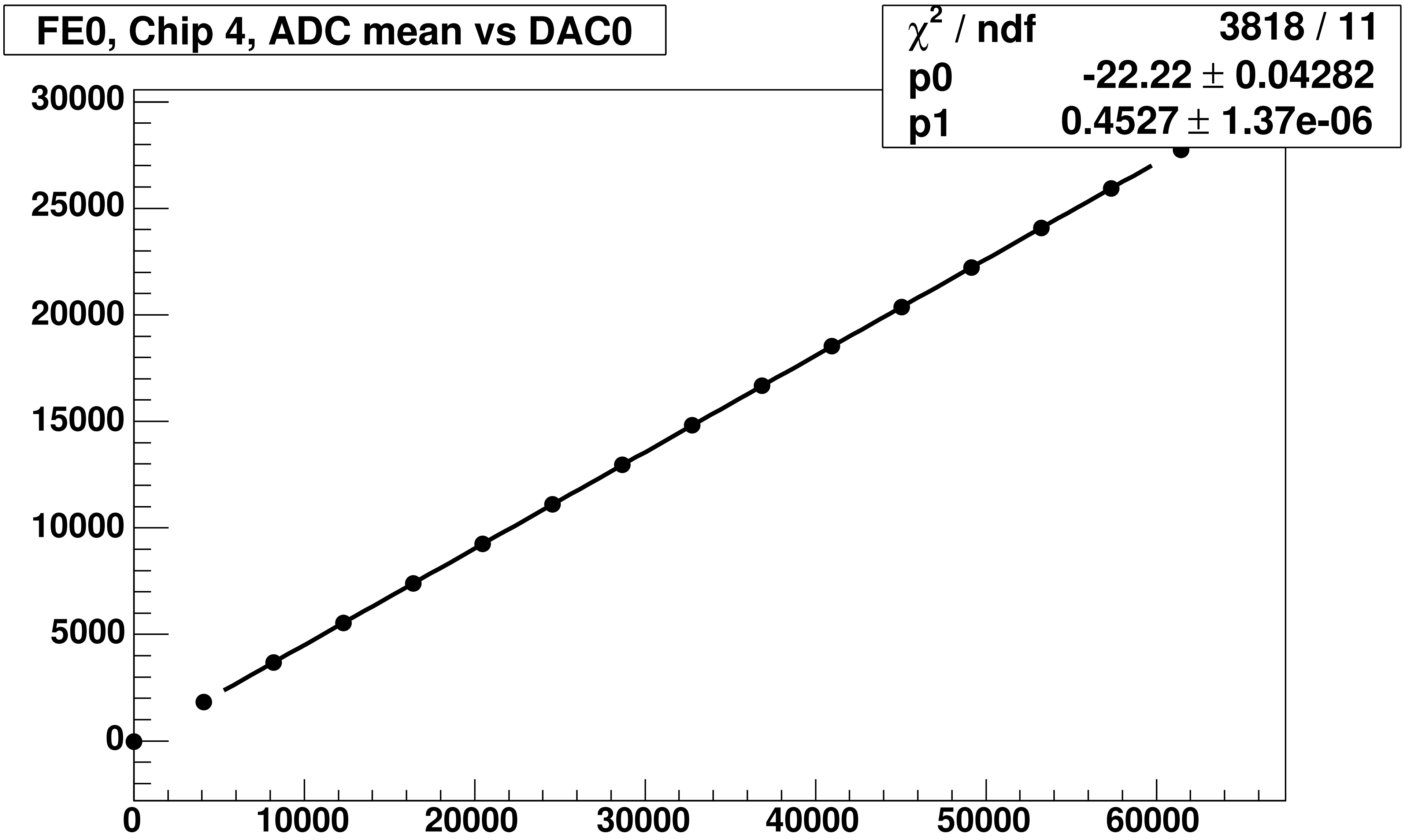


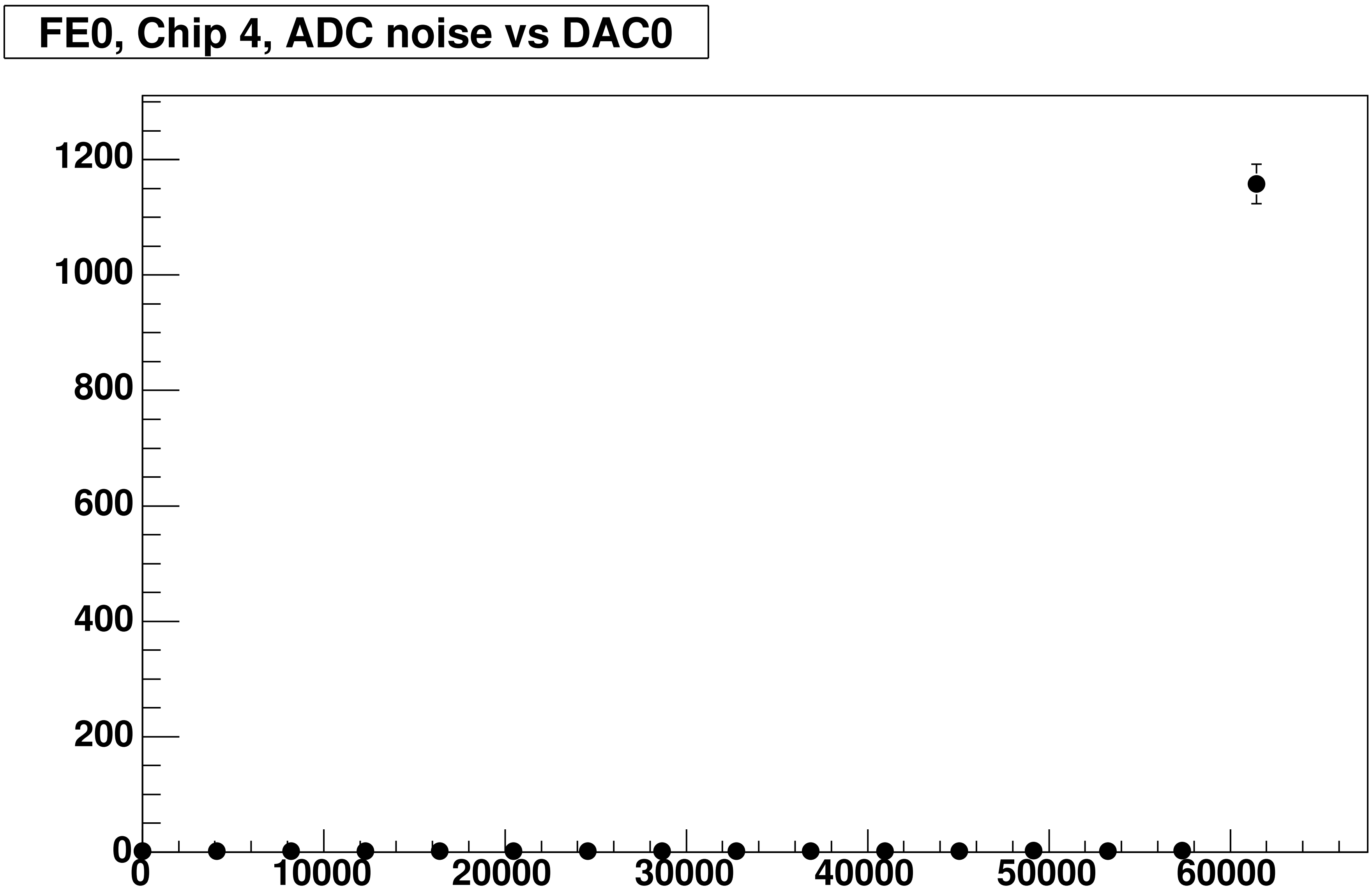
FE0, Chip 3, ADC mean vs DAC1
χ2 / ndf 35.45 / 11
p0 -16.13 ± 0.04114
p1 1.621e-06 ± 1.131e-06
-15.6
-15.7
-15.8
-15.9
-16
-16.1
-16.2
-16.3
-16.4
0
10000
20000
30000
40000
50000
60000

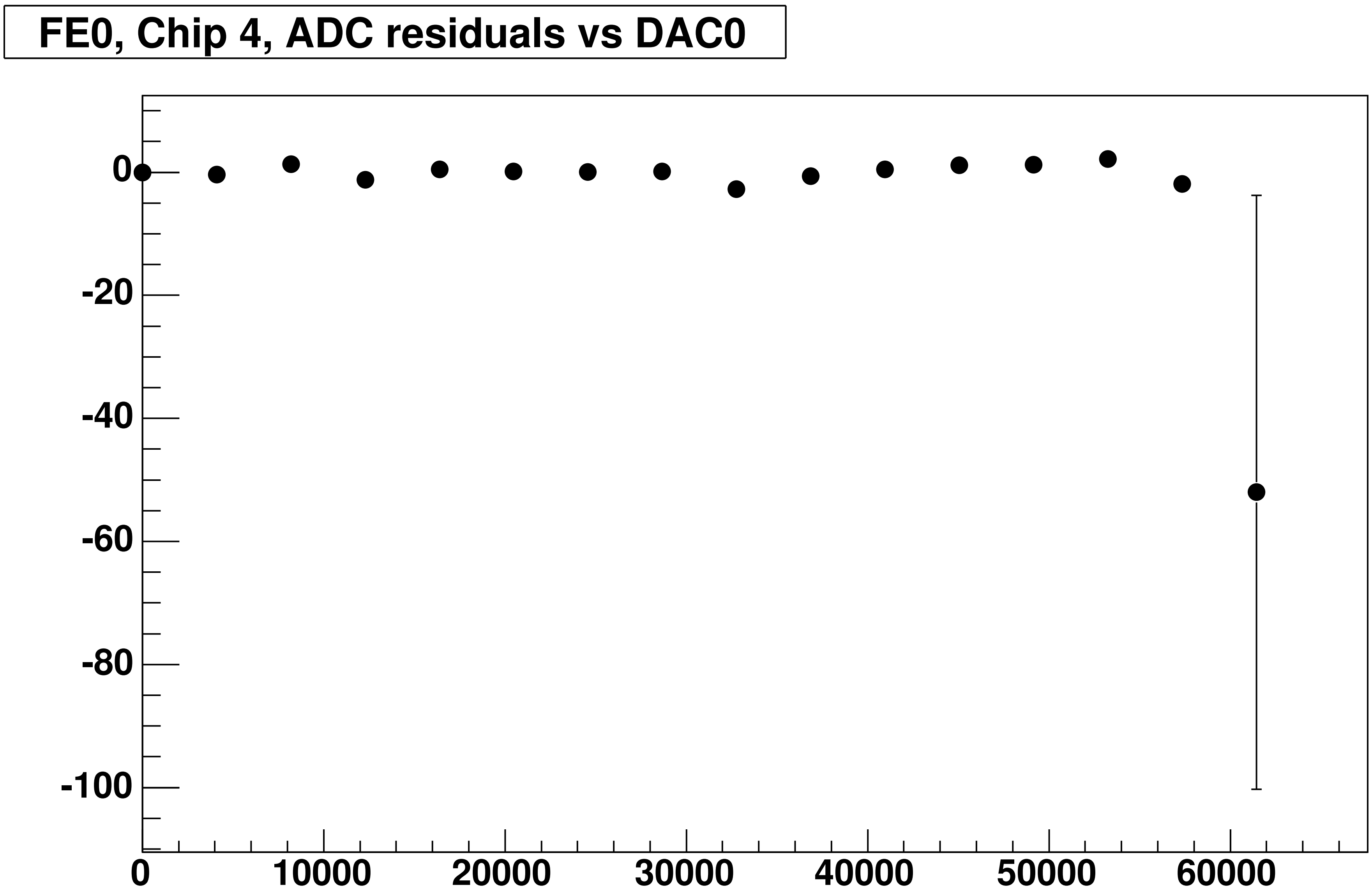

FE0, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

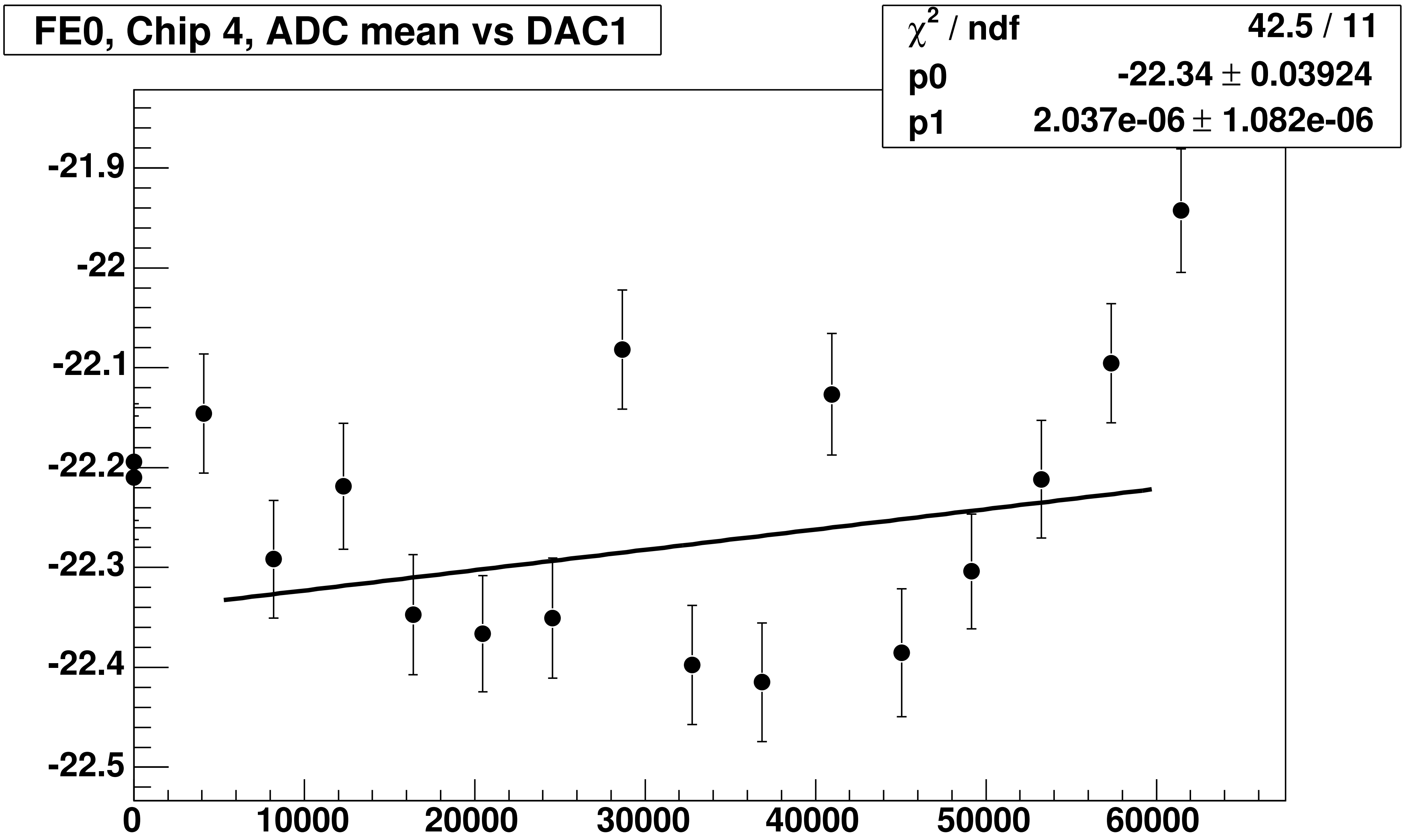


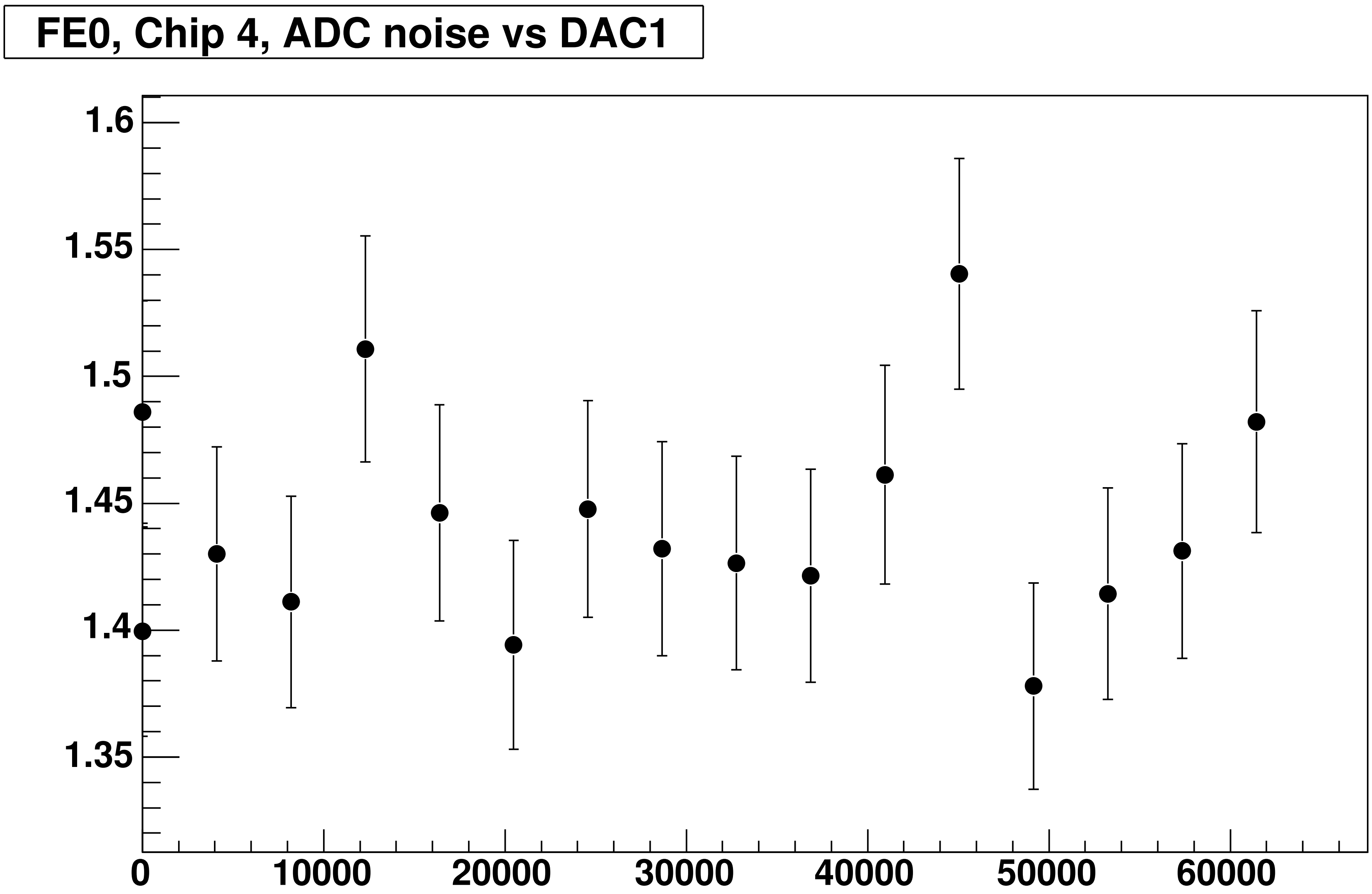
FE0, Chip 3, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE0, Chip 4, ADC mean vs DAC0
χ² / ndf 3818 / 11
p0 -22.22 ± 0.04282
p1 0.4527 ± 1.37e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

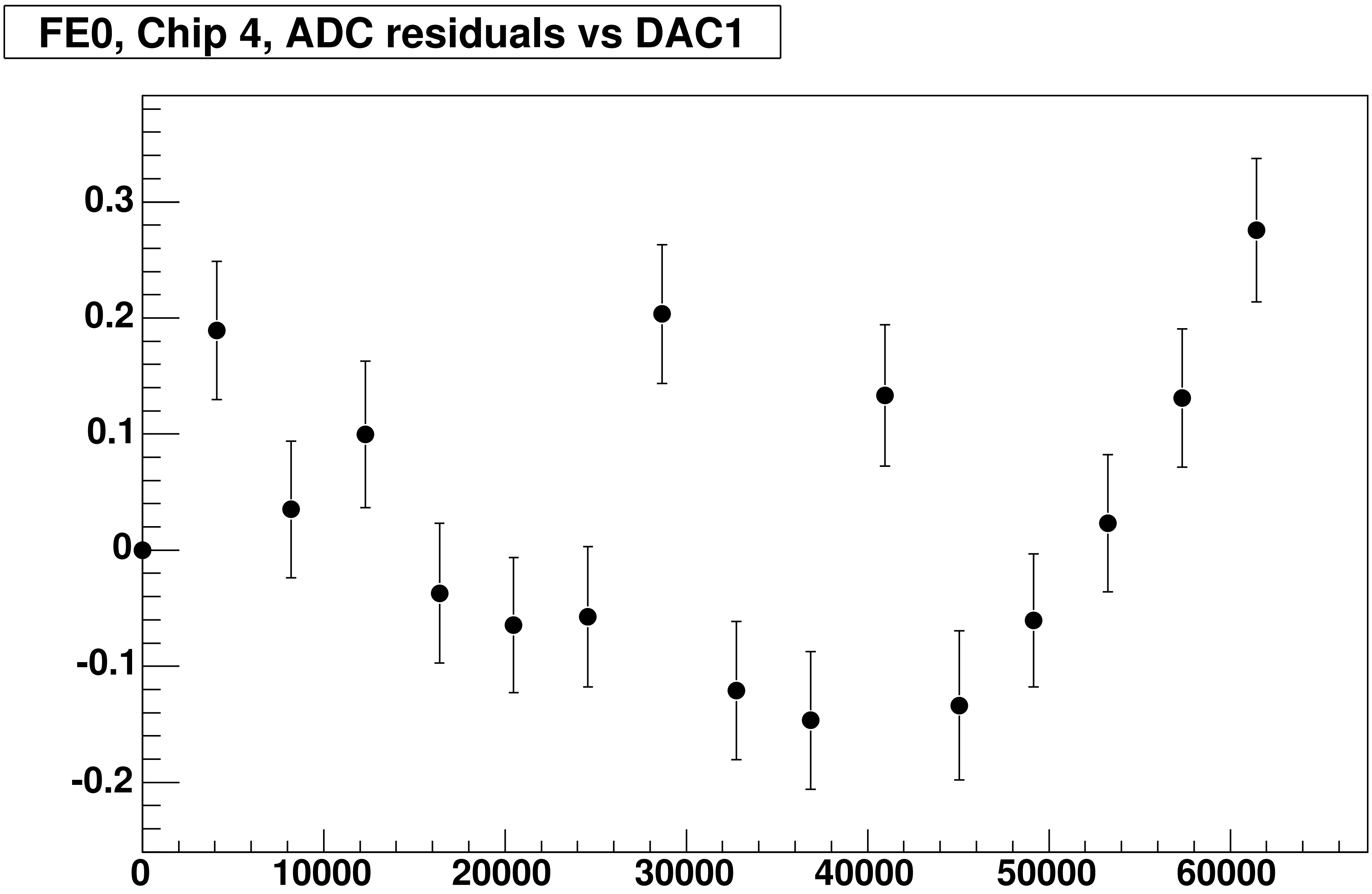

FE0, Chip 4, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

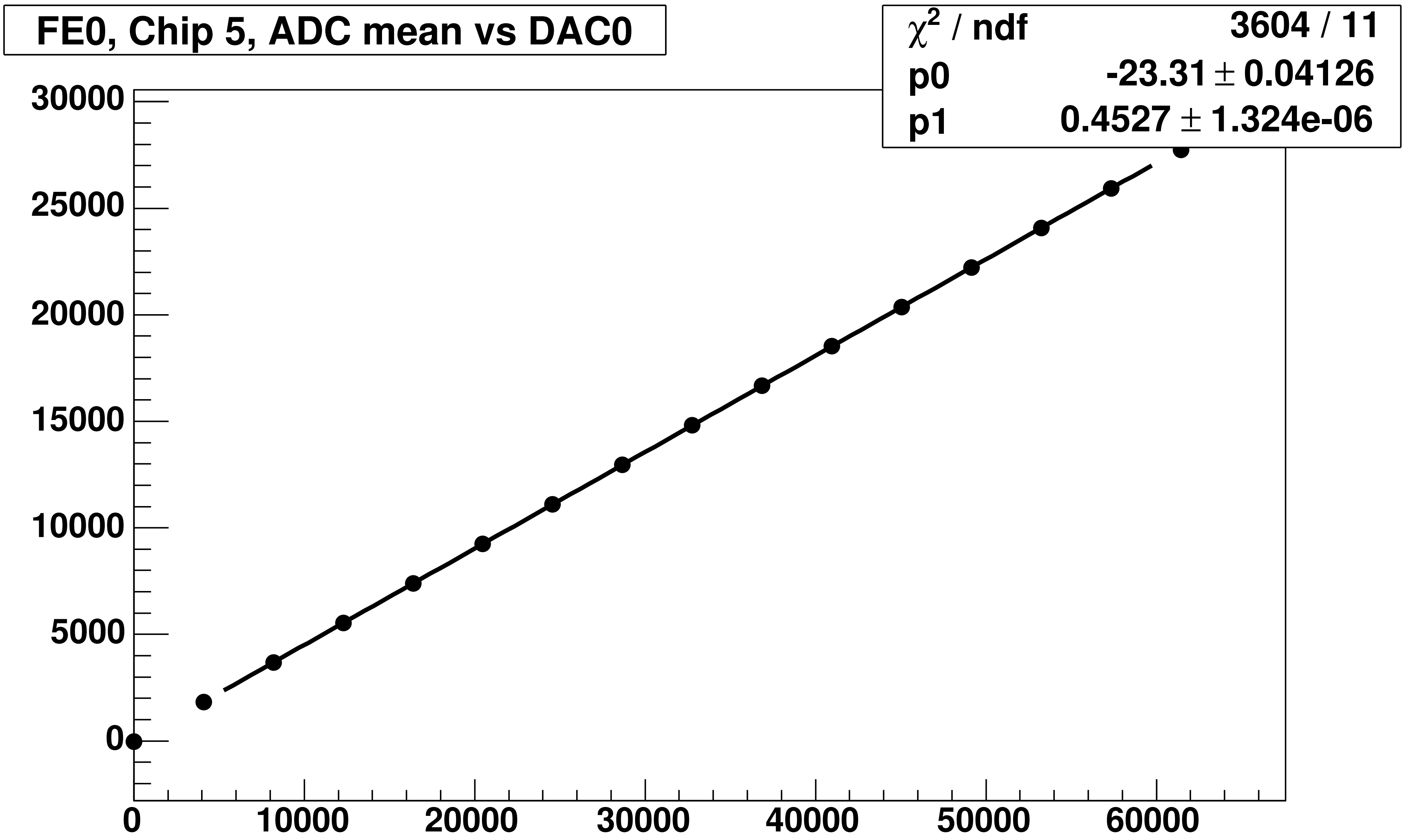

FE0, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

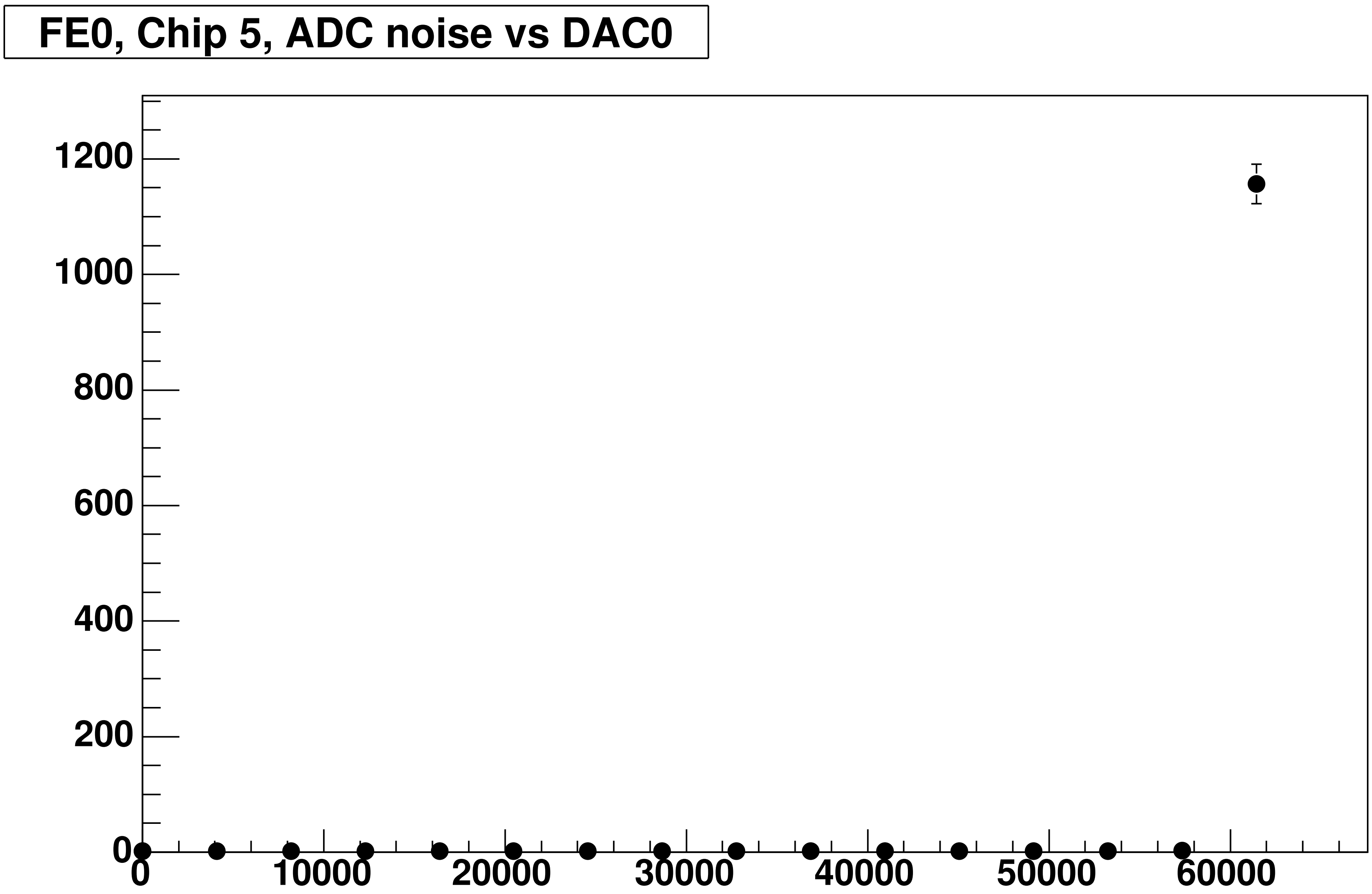

FE0, Chip 4, ADC mean vs DAC1
χ² / ndf 42.5 / 11
p0 -22.34 ± 0.03924
p1 2.037e-06 ± 1.082e-06
-21.9
-22
-22.1
-22.2
-22.3
-22.4
-22.5
0
10000
20000
30000
40000
50000
60000

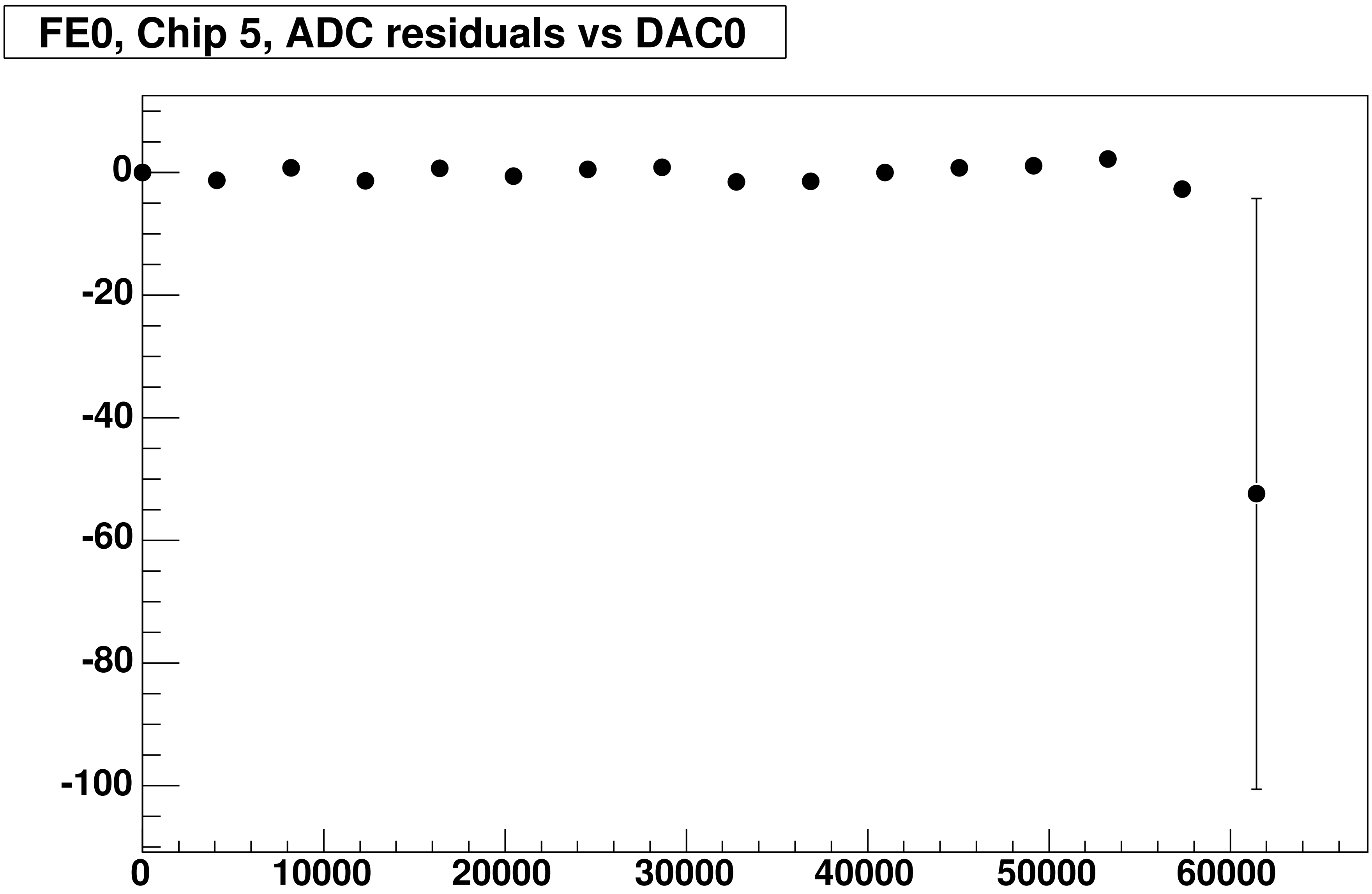


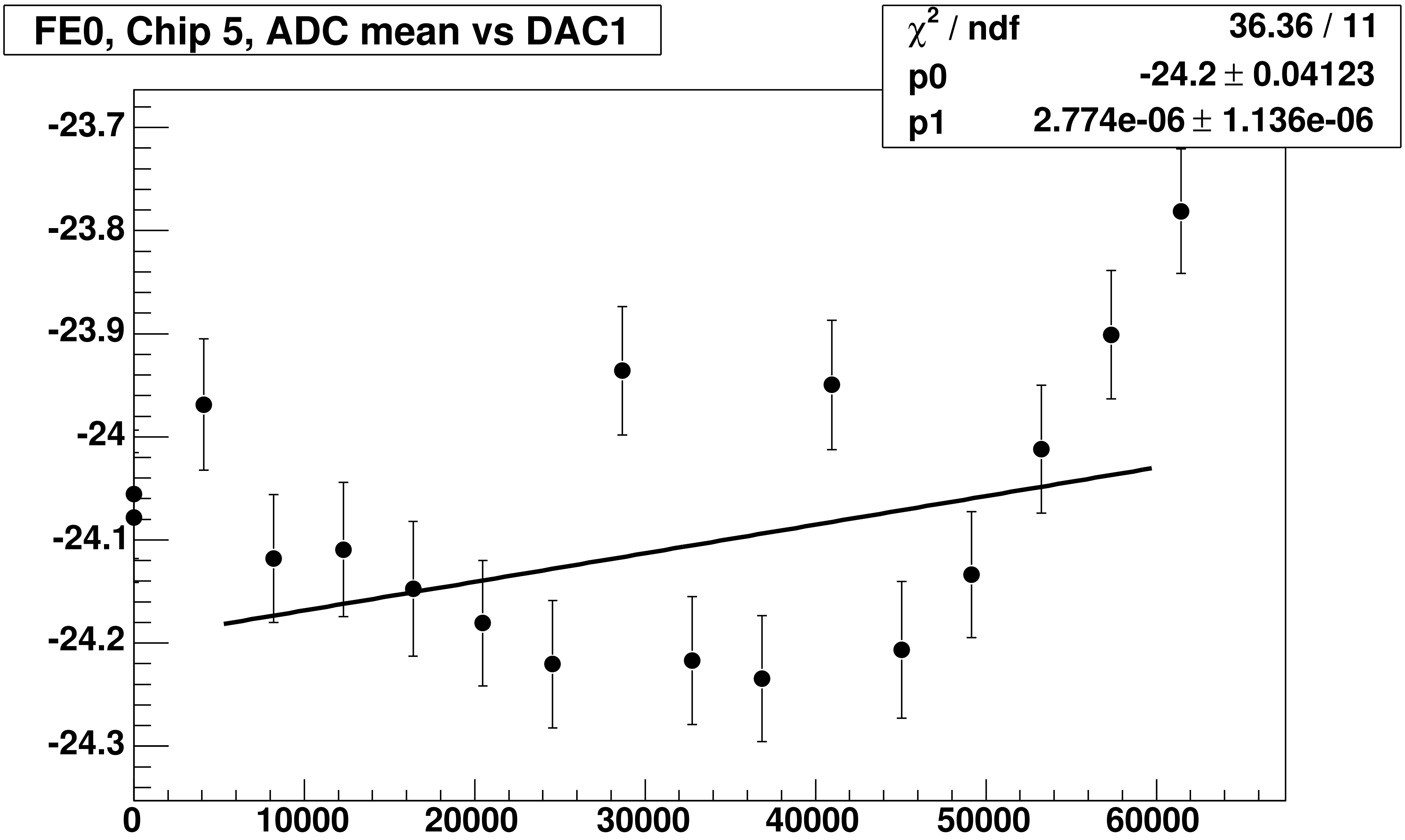
FE0, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

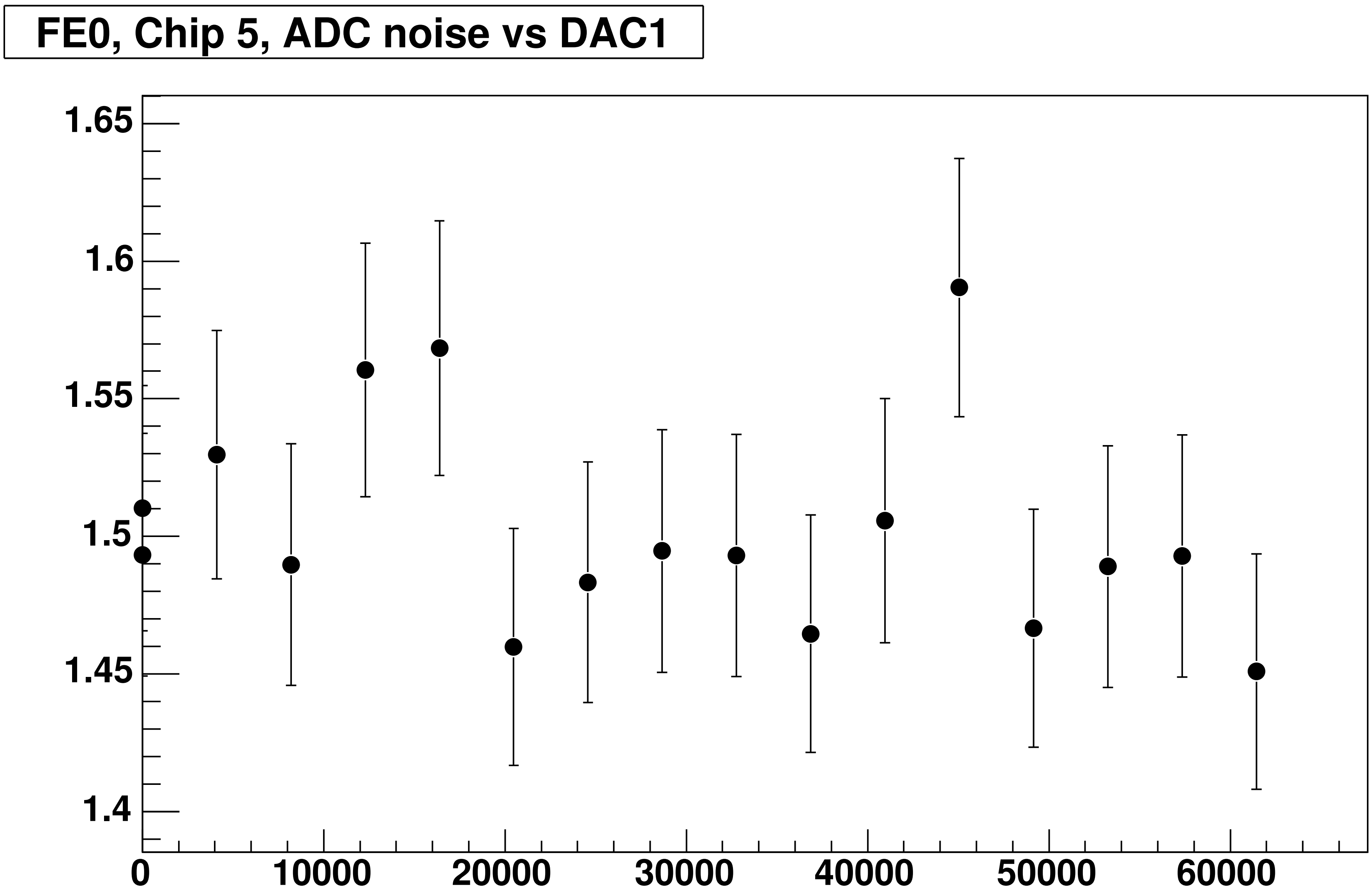

FE0, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE0, Chip 5, ADC mean vs DAC0
χ^2 / ndf 3604 / 11
p0 -23.31 ± 0.04126
p1 0.4527 ± 1.324e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

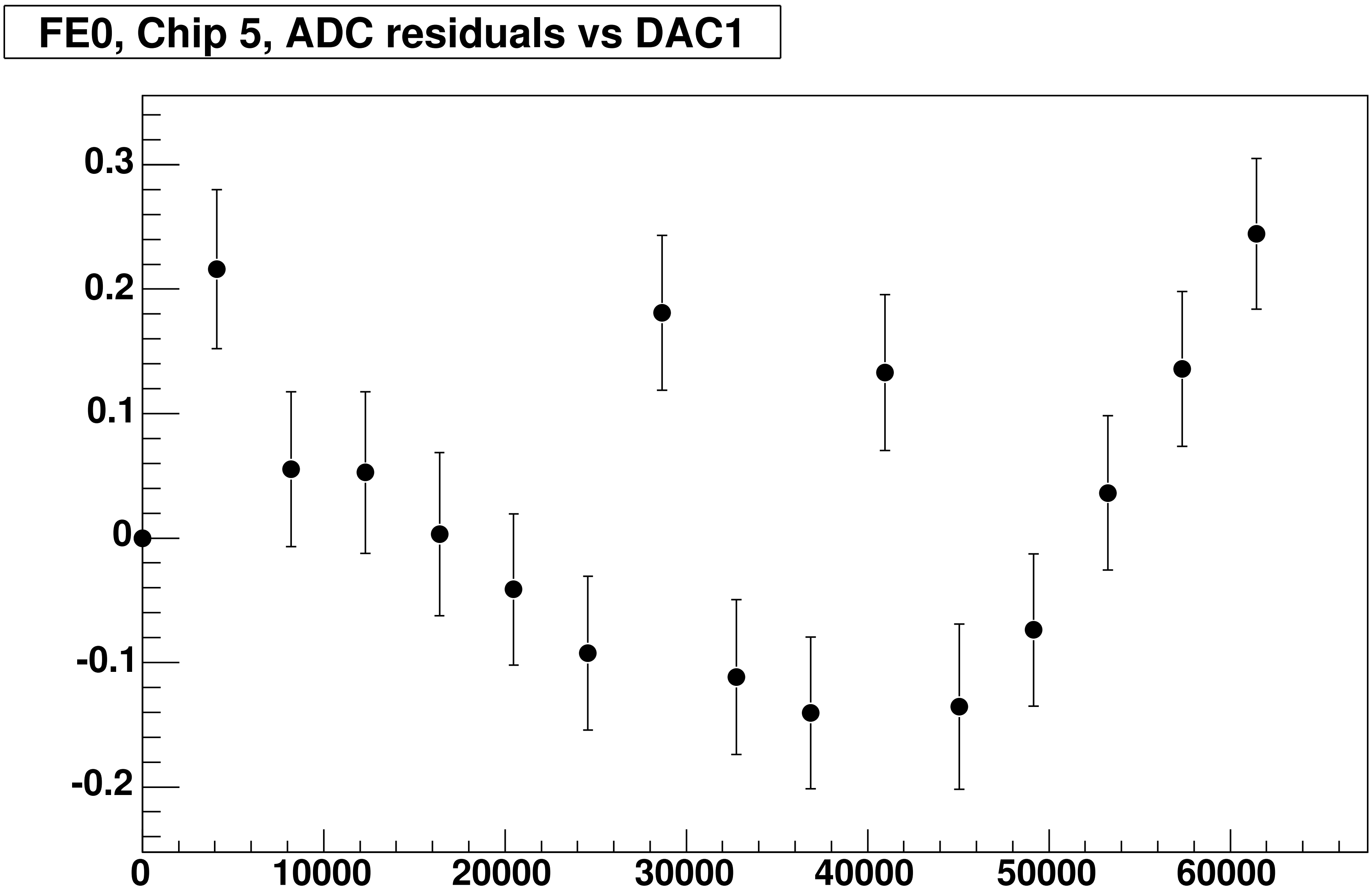

FE0, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

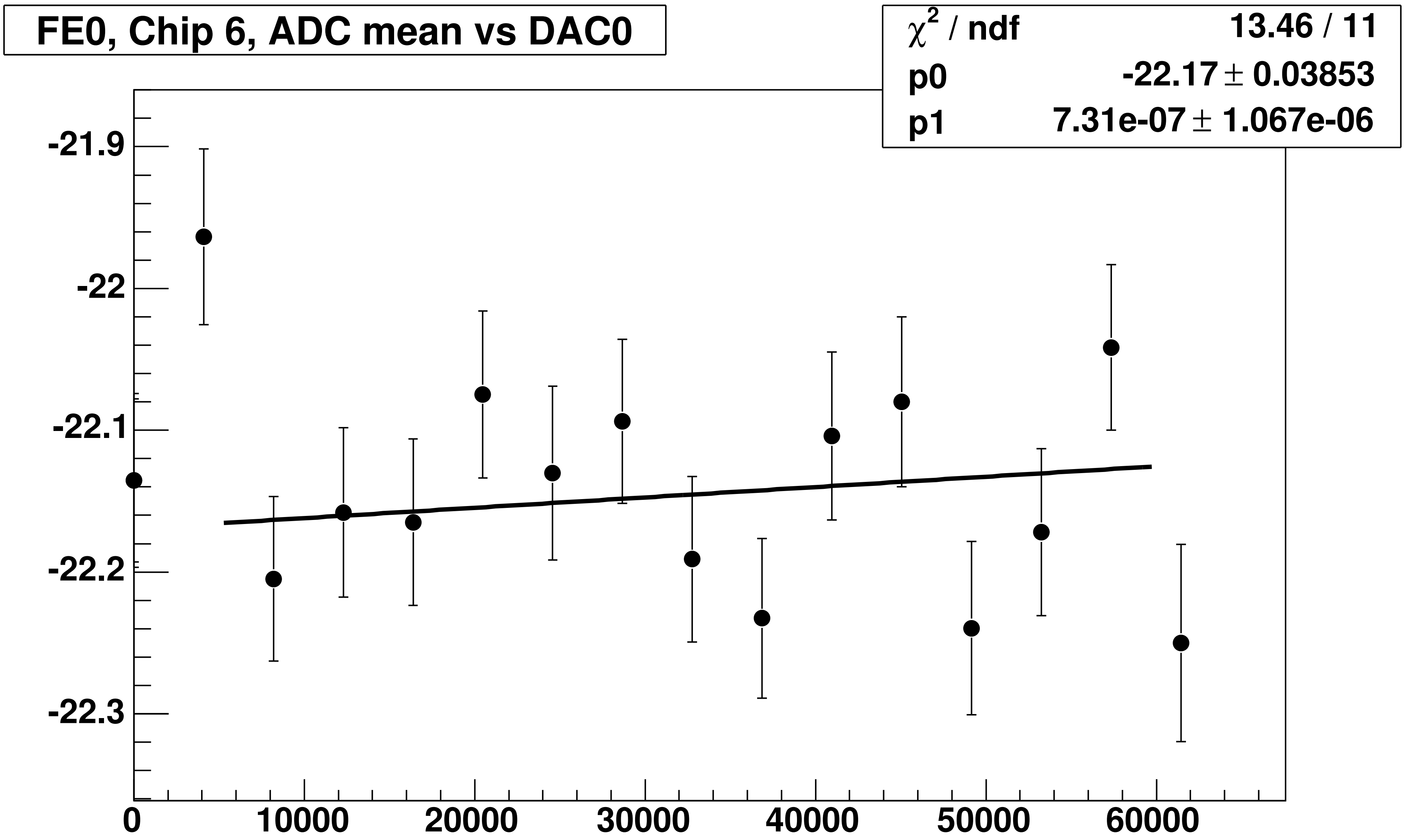

FE0, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE0, Chip 5, ADC mean vs DAC1
χ² / ndf 36.36 / 11
p0 -24.2 ± 0.04123
p1 2.774e-06 ± 1.136e-06
-23.7
-23.8
-23.9
-24
-24.1
-24.2
-24.3
0
10000
20000
30000
40000
50000
60000

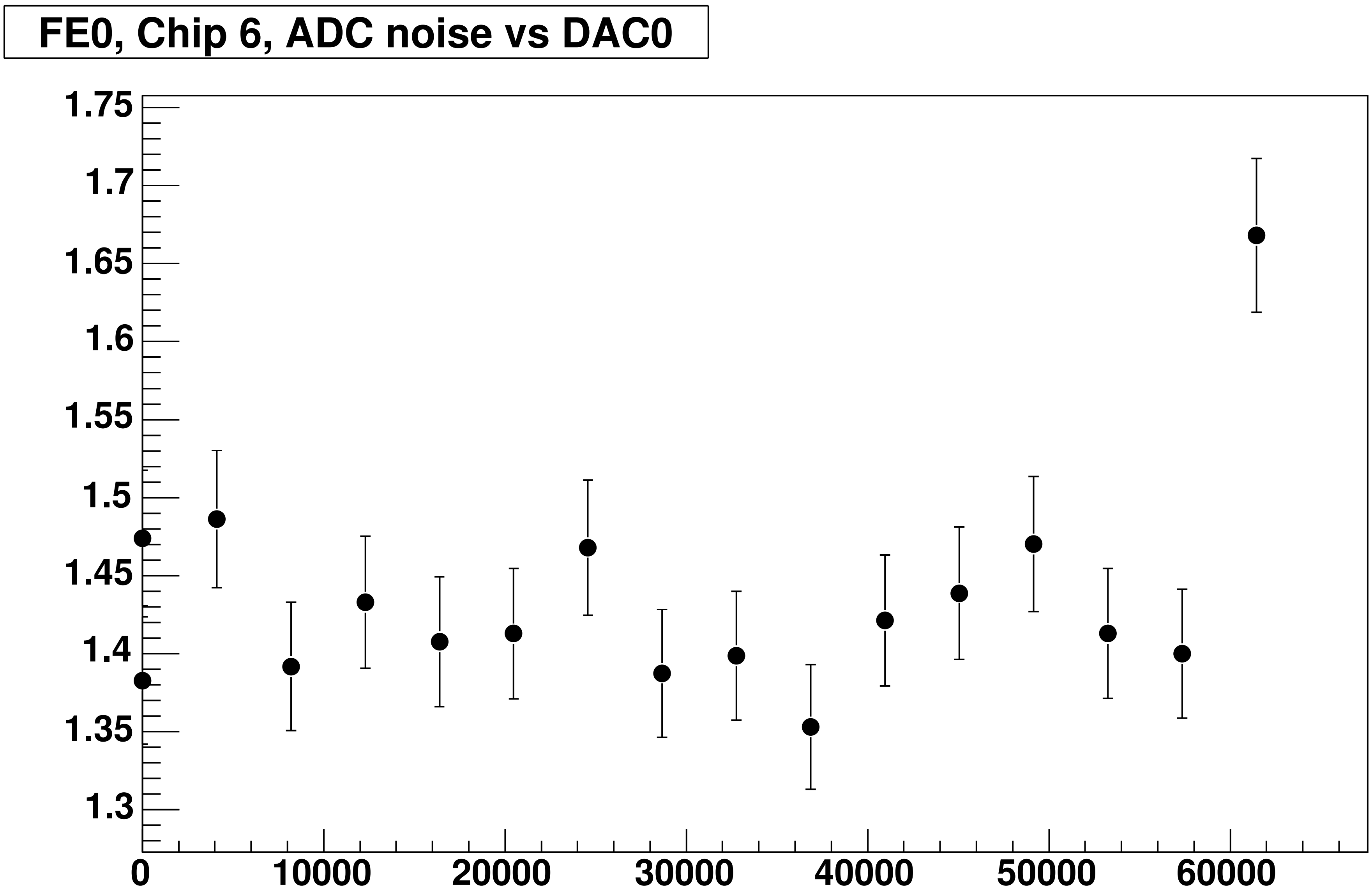


FE0, Chip 5, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

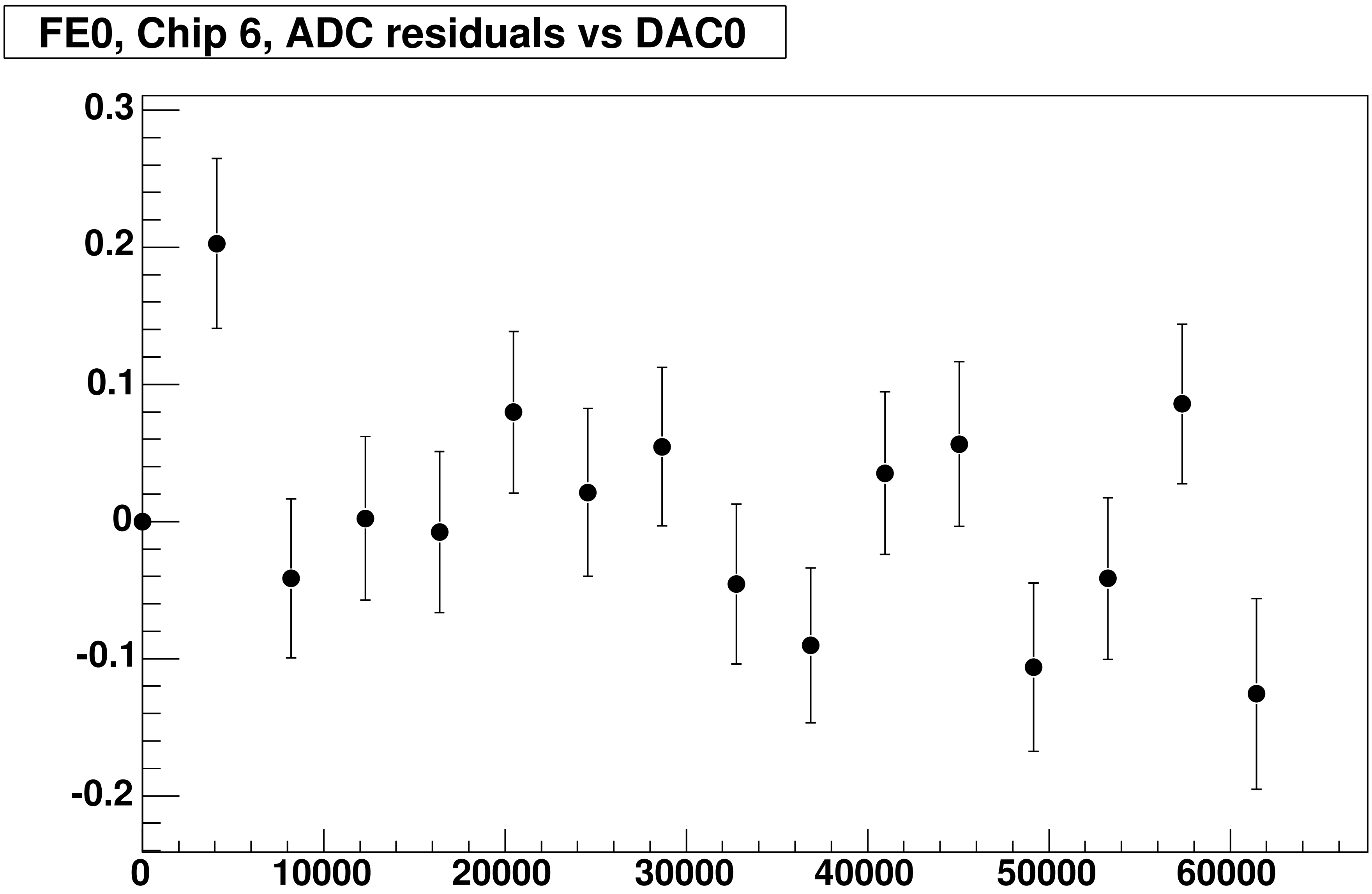

FE0, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

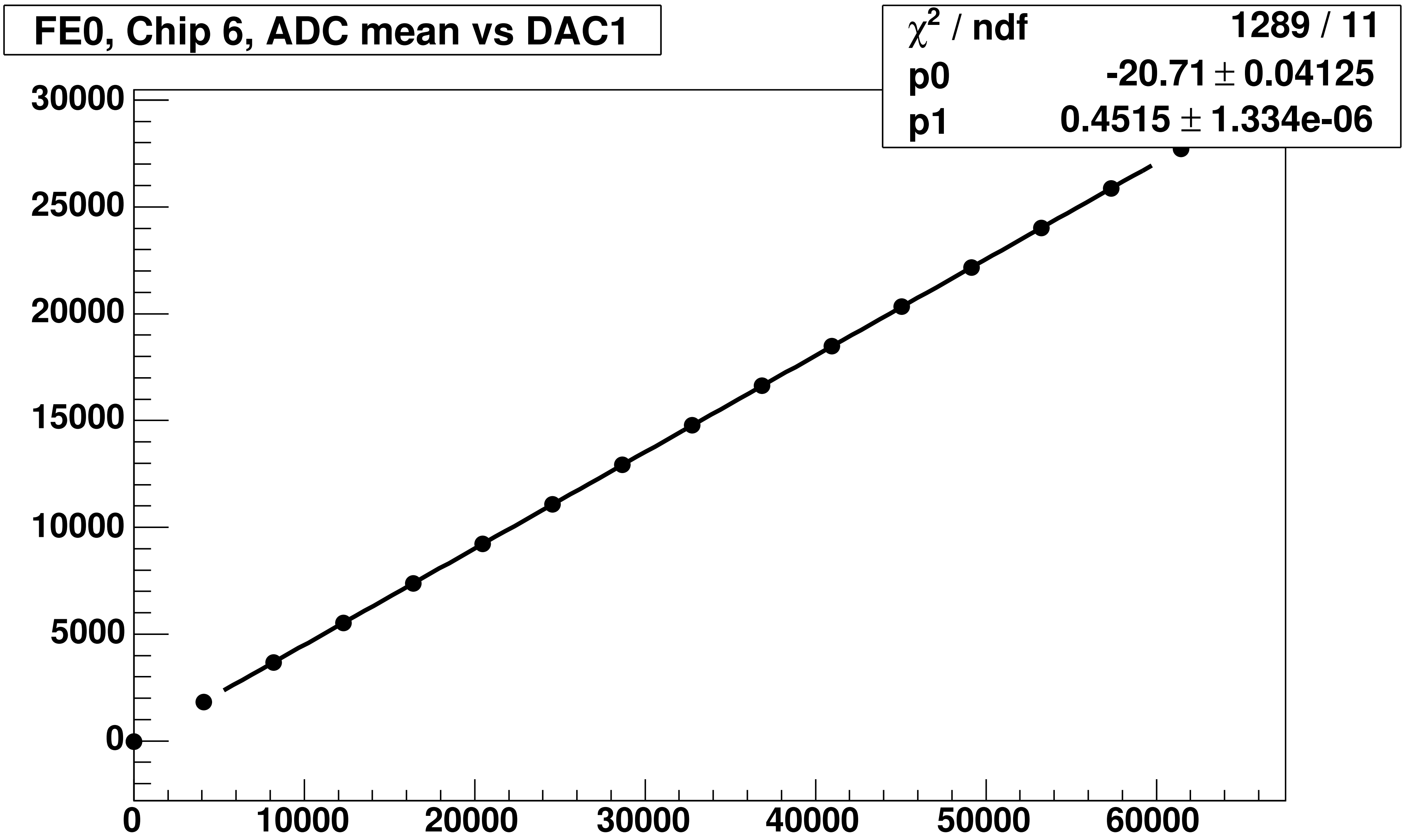


FE0, Chip 6, ADC mean vs DAC0
χ^2 / ndf 13.46 / 11
p0 -22.17 ± 0.03853
p1 7.31e-07 ± 1.067e-06
-21.9
-22
-22.1
-22.2
-22.3
0
10000
20000
30000
40000
50000
60000

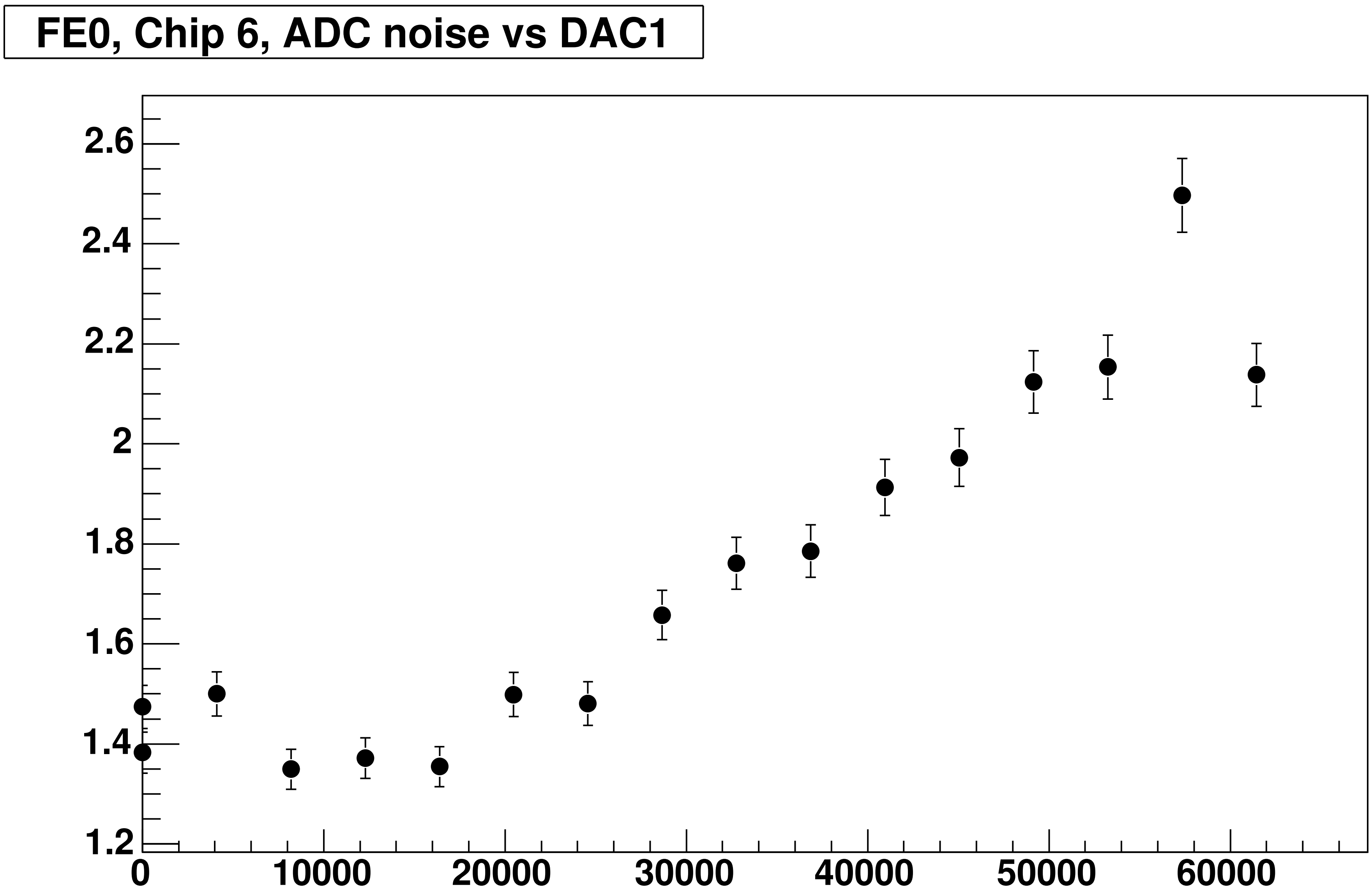


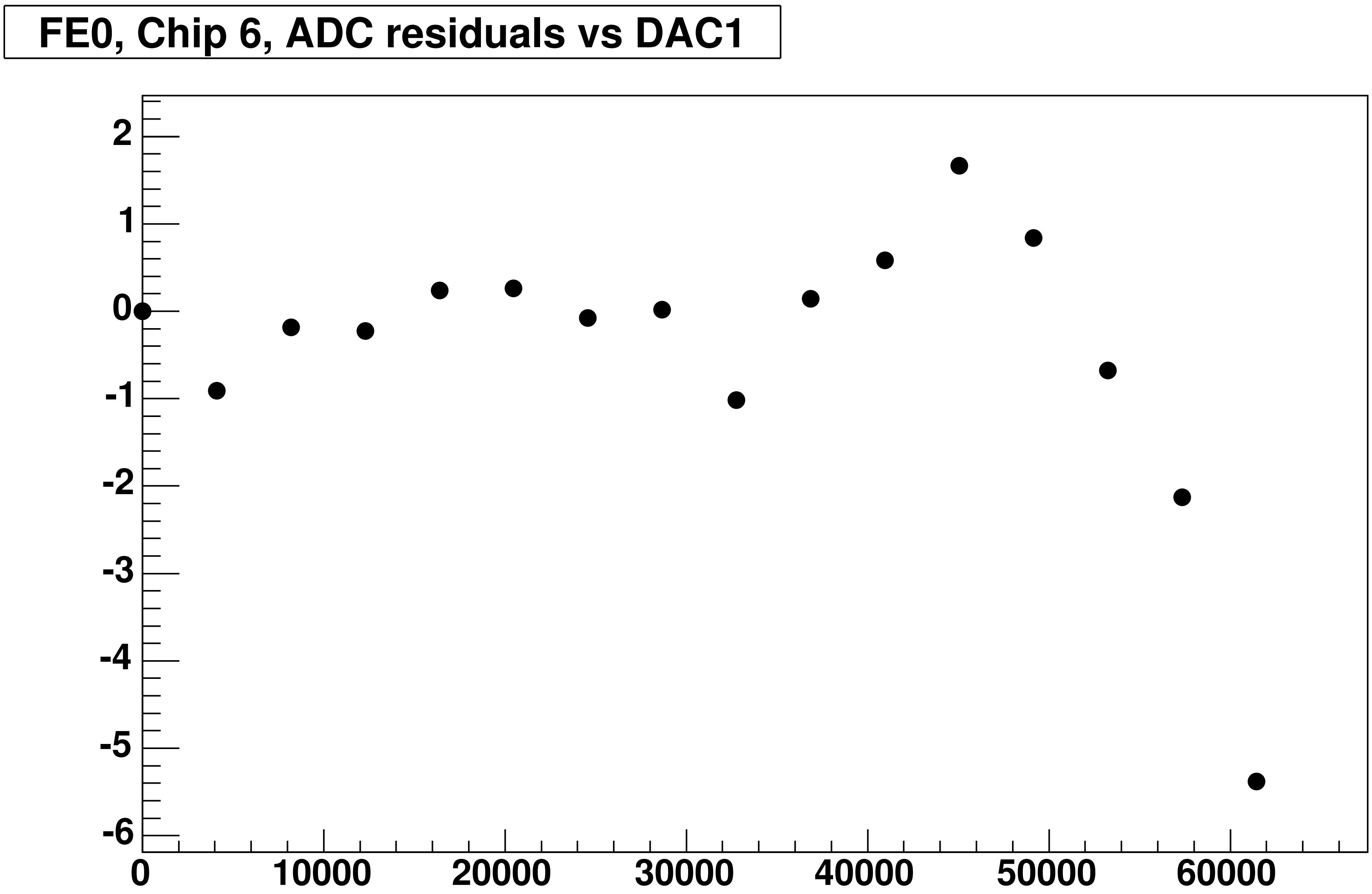
FE0, Chip 6, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

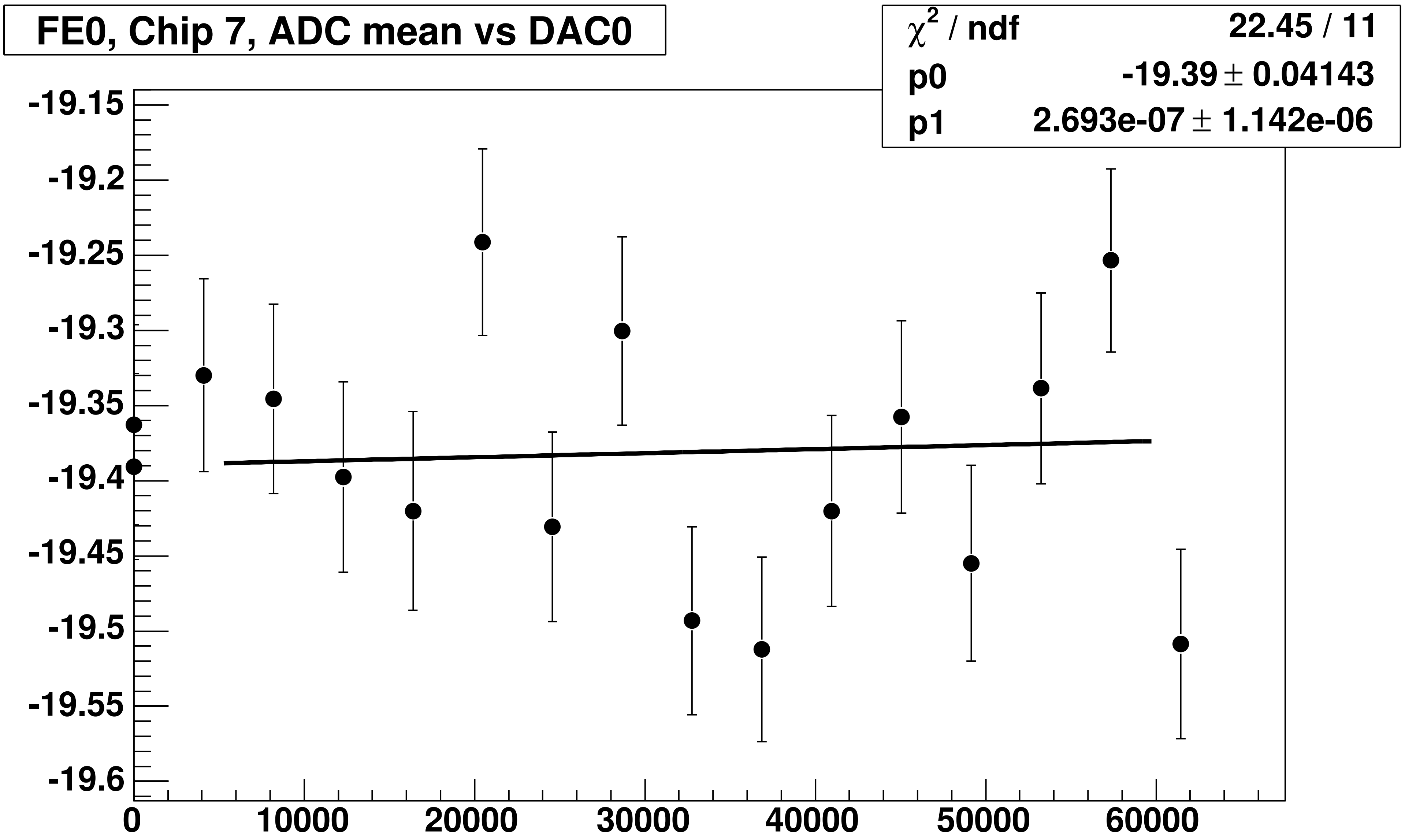

FE0, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



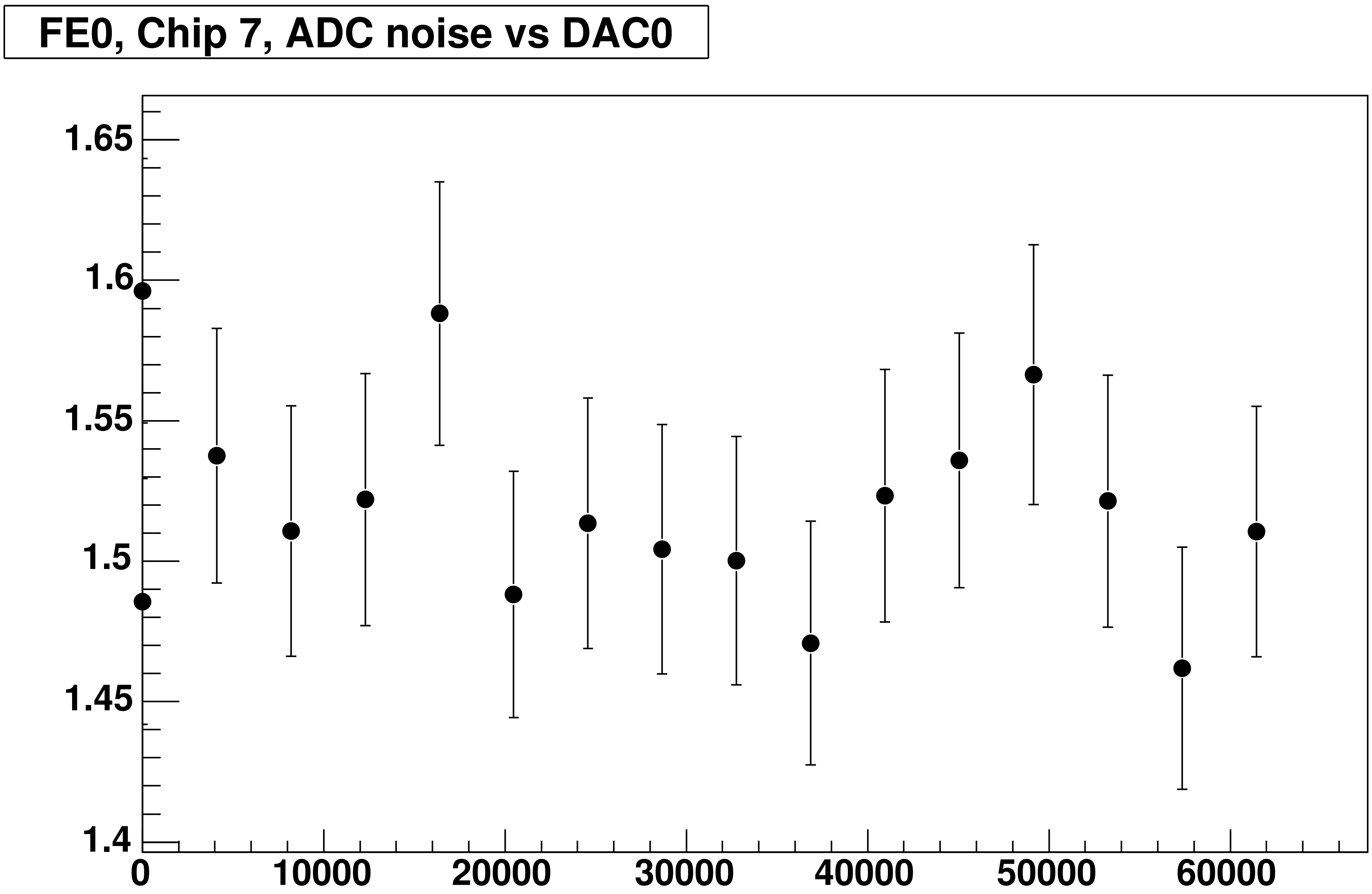
FE0, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1289 / 11
p0 -20.71 ± 0.04125
p1 0.4515 ± 1.334e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

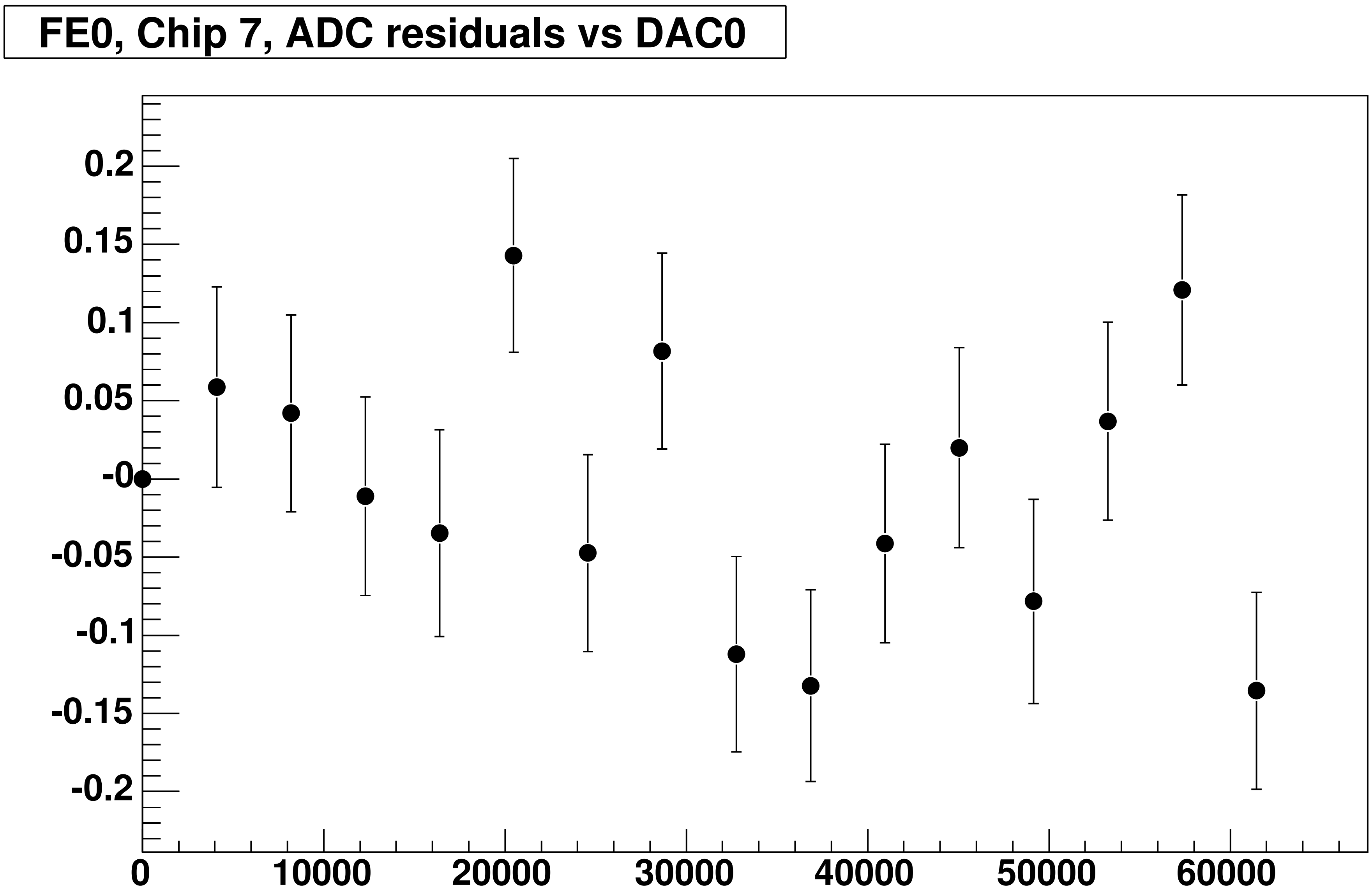

FE0, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

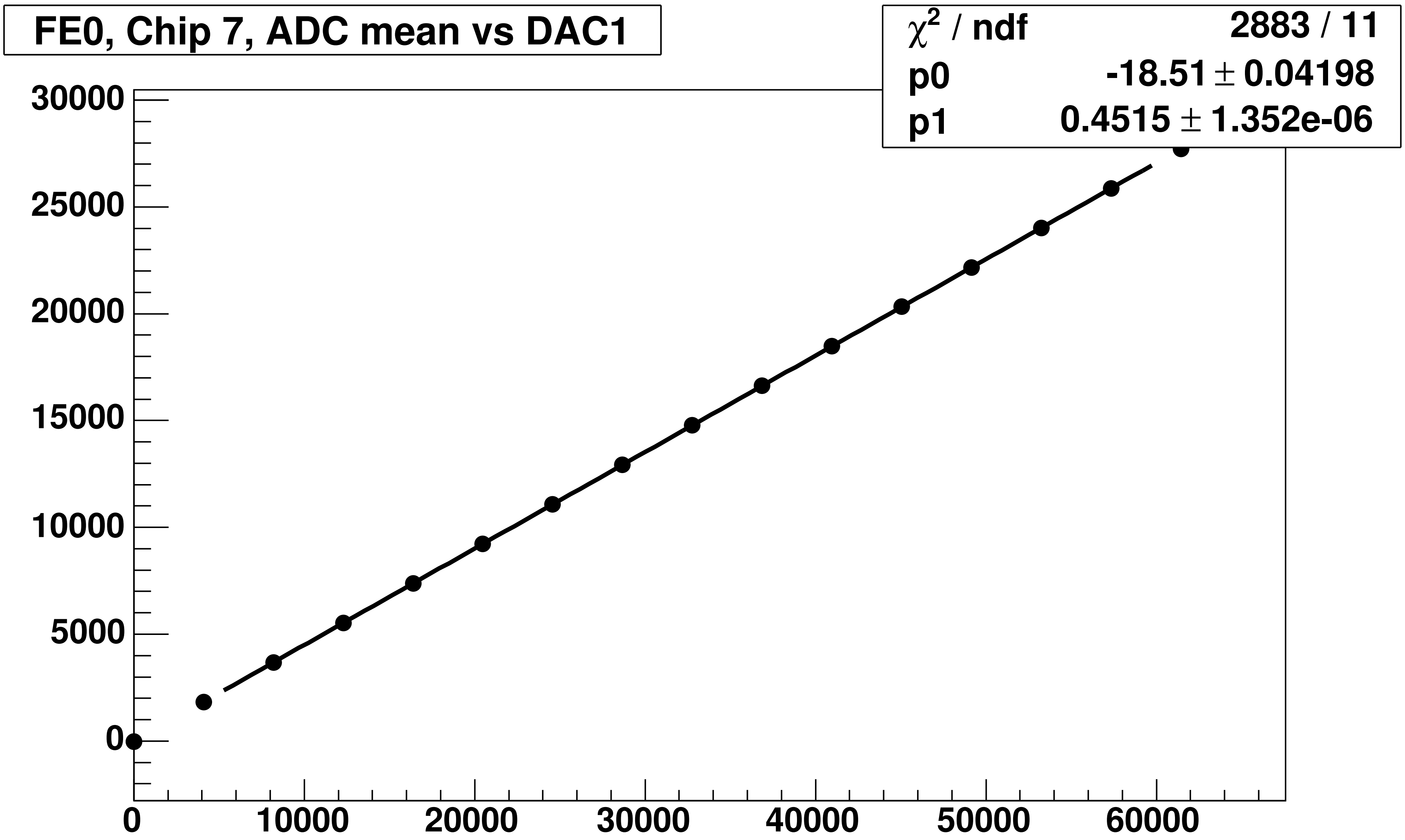


FE0, Chip 7, ADC mean vs DAC0
χ² / ndf 22.45 / 11
p0 -19.39 ± 0.04143
p1 2.693e-07 ± 1.142e-06
-19.15
-19.2
-19.25
-19.3
-19.35
-19.4
-19.45
-19.5
-19.55
-19.6
0
10000
20000
30000
40000
50000
60000

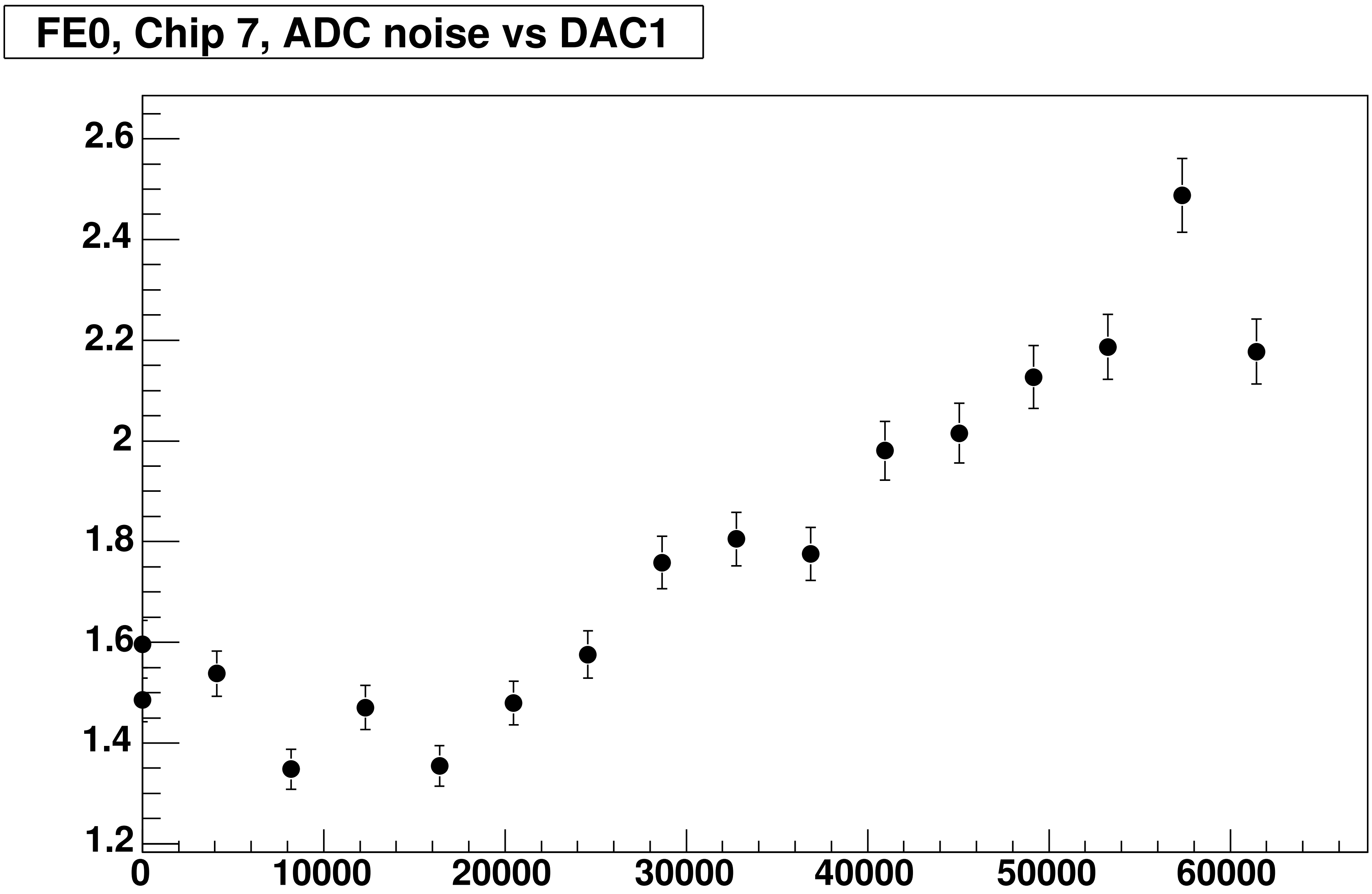


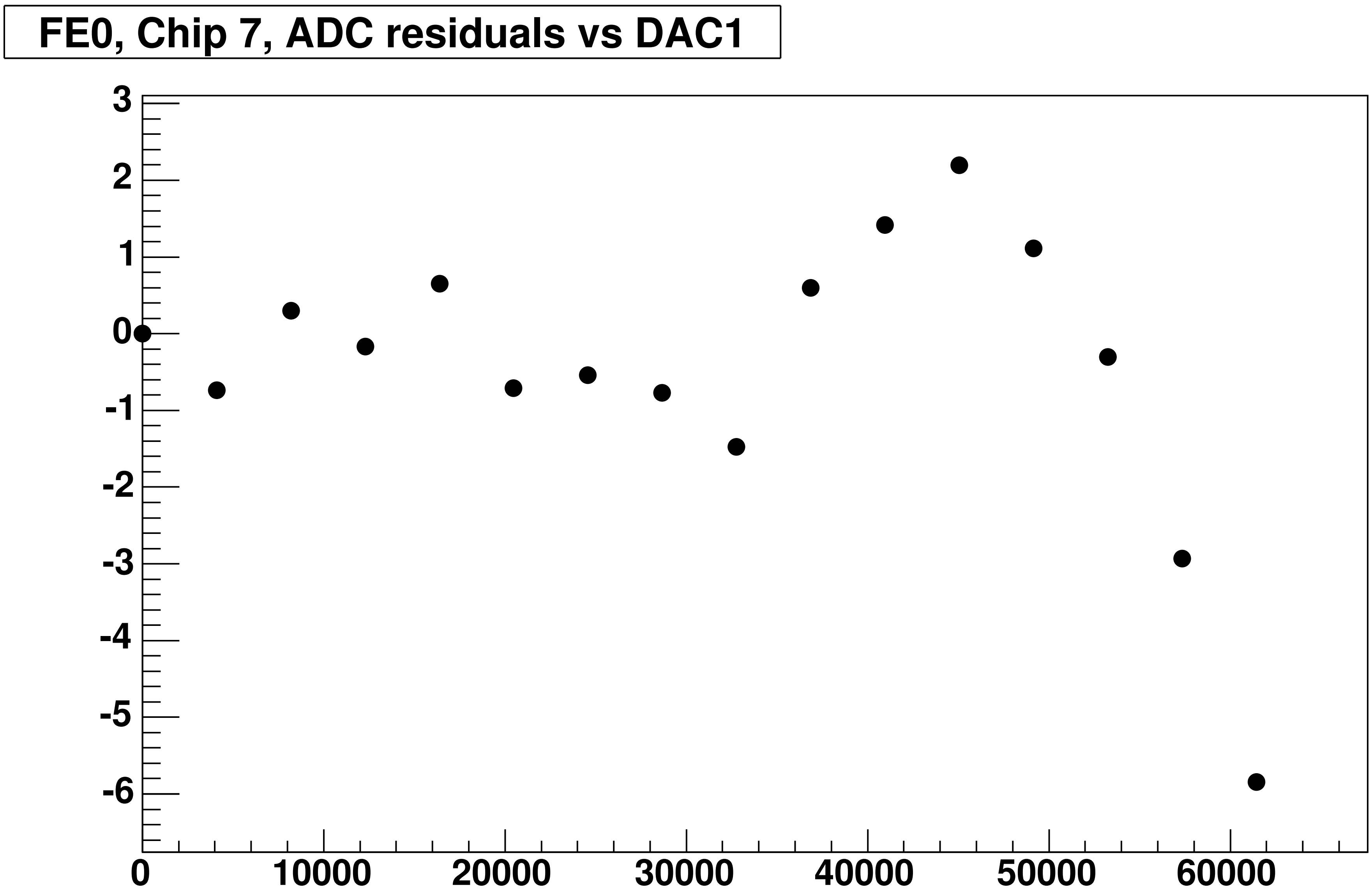
FE0, Chip 7, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

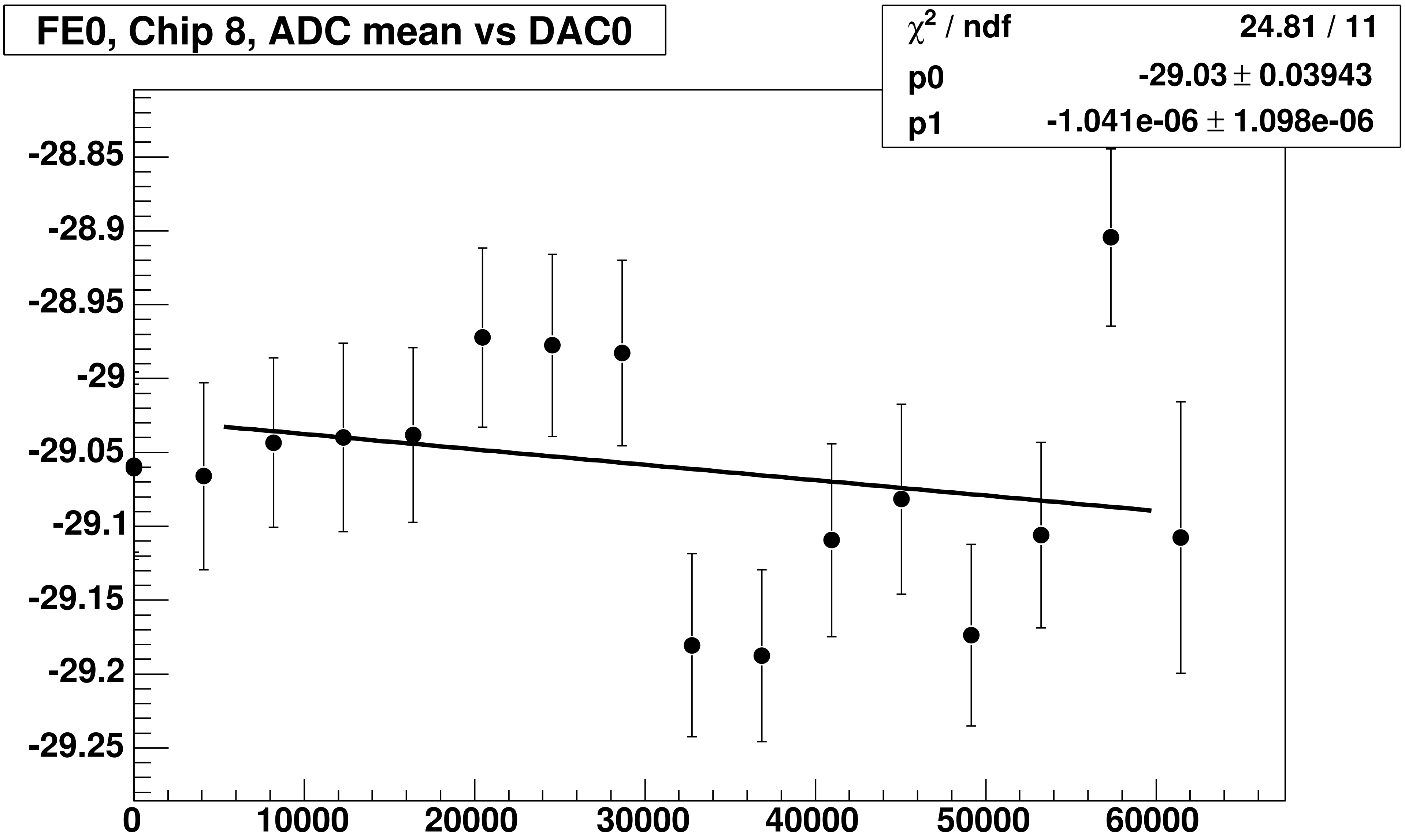

FE0, Chip 7, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



FE0, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2883 / 11
p0 -18.51 ± 0.04198
p1 0.4515 ± 1.352e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

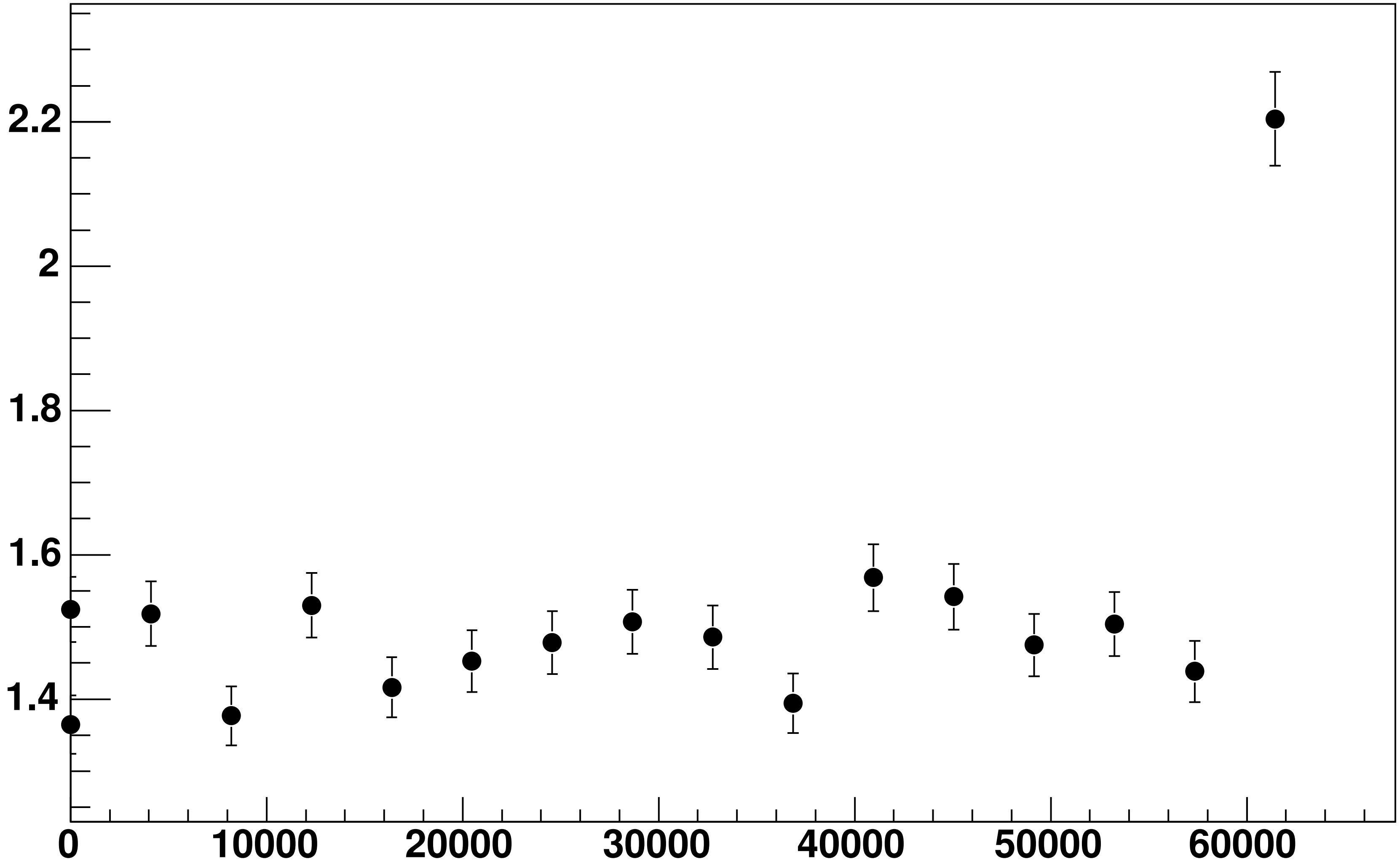

FE0, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

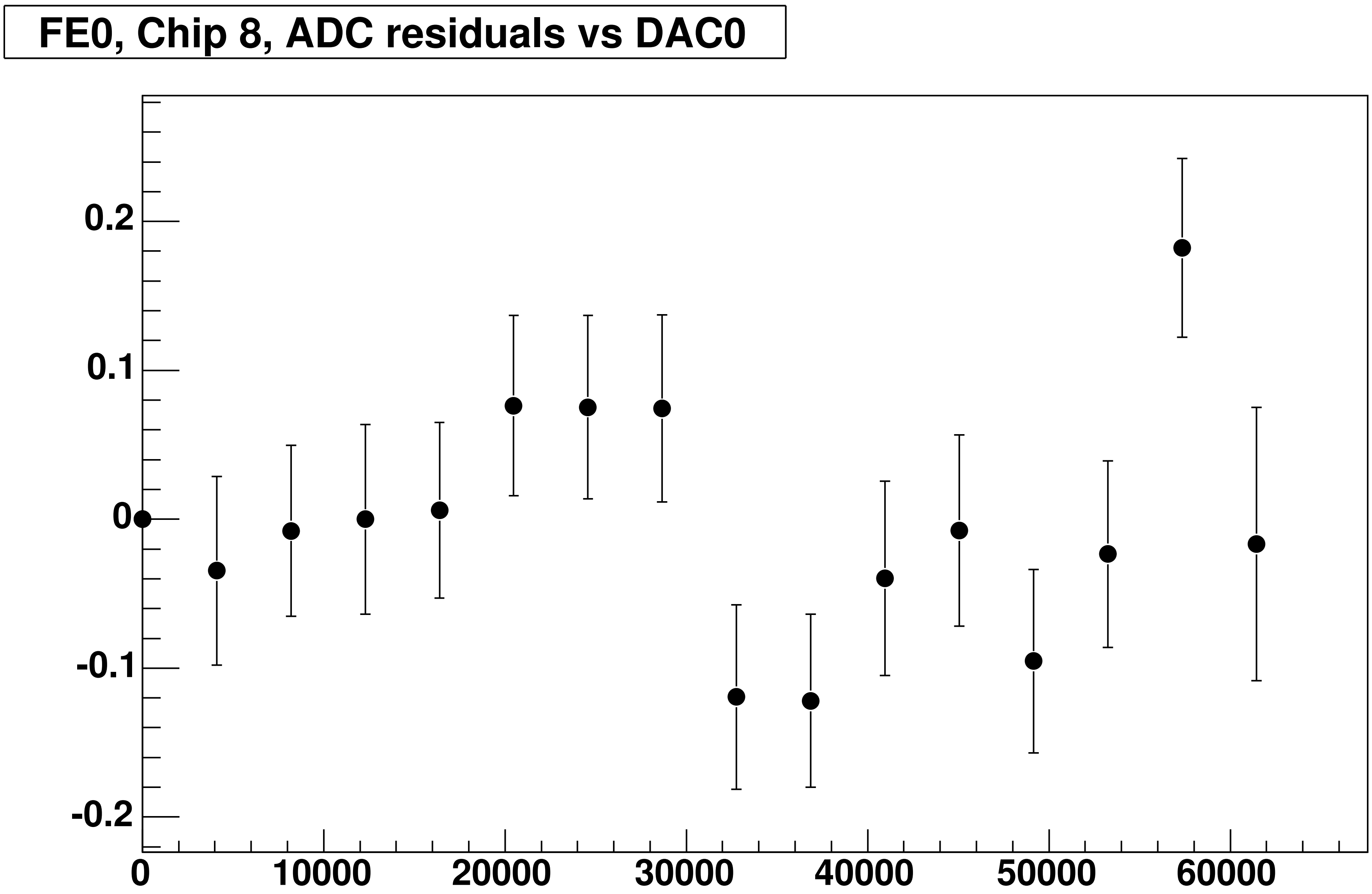

FE0, Chip 7, ADC residuals vs DAC1
3
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

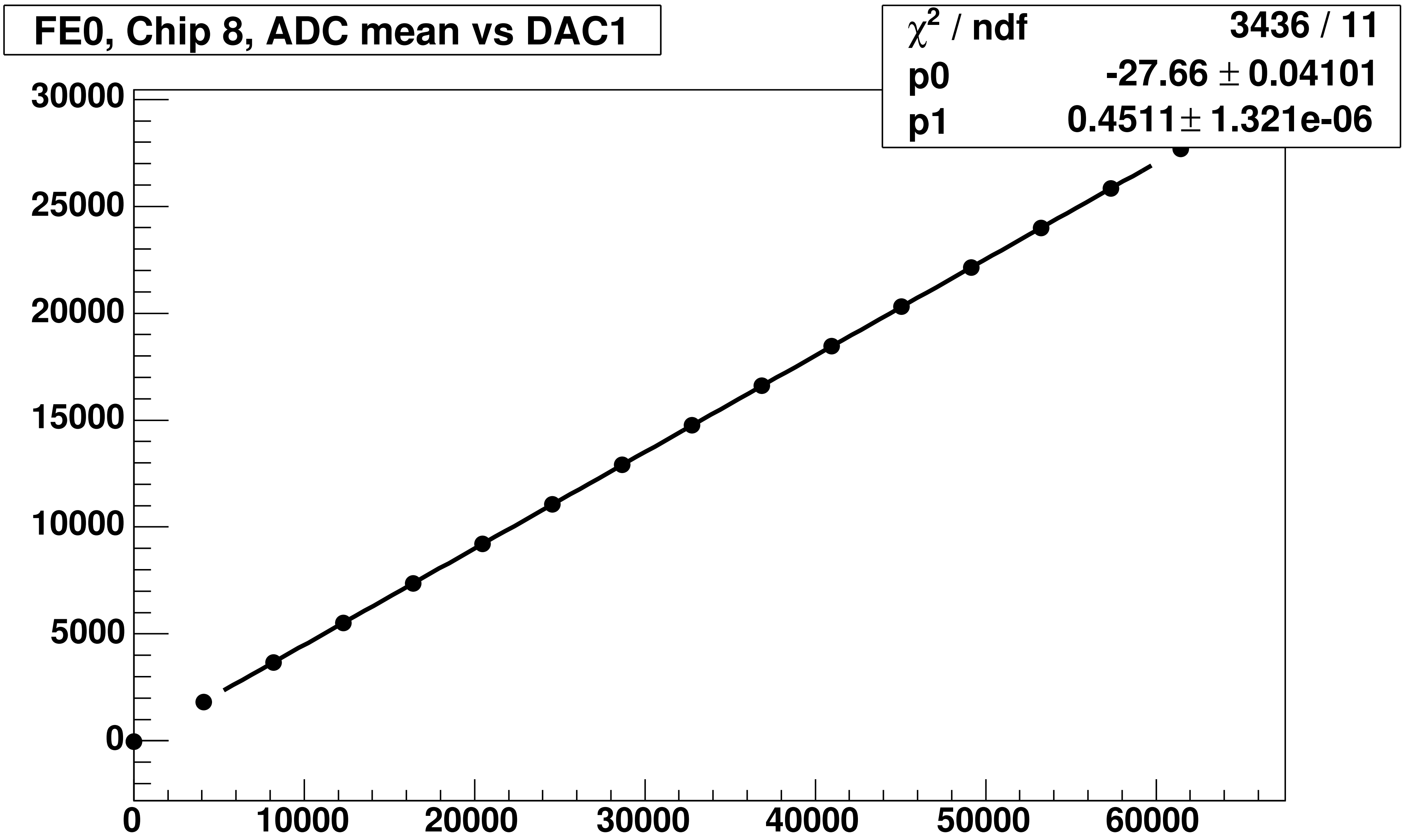


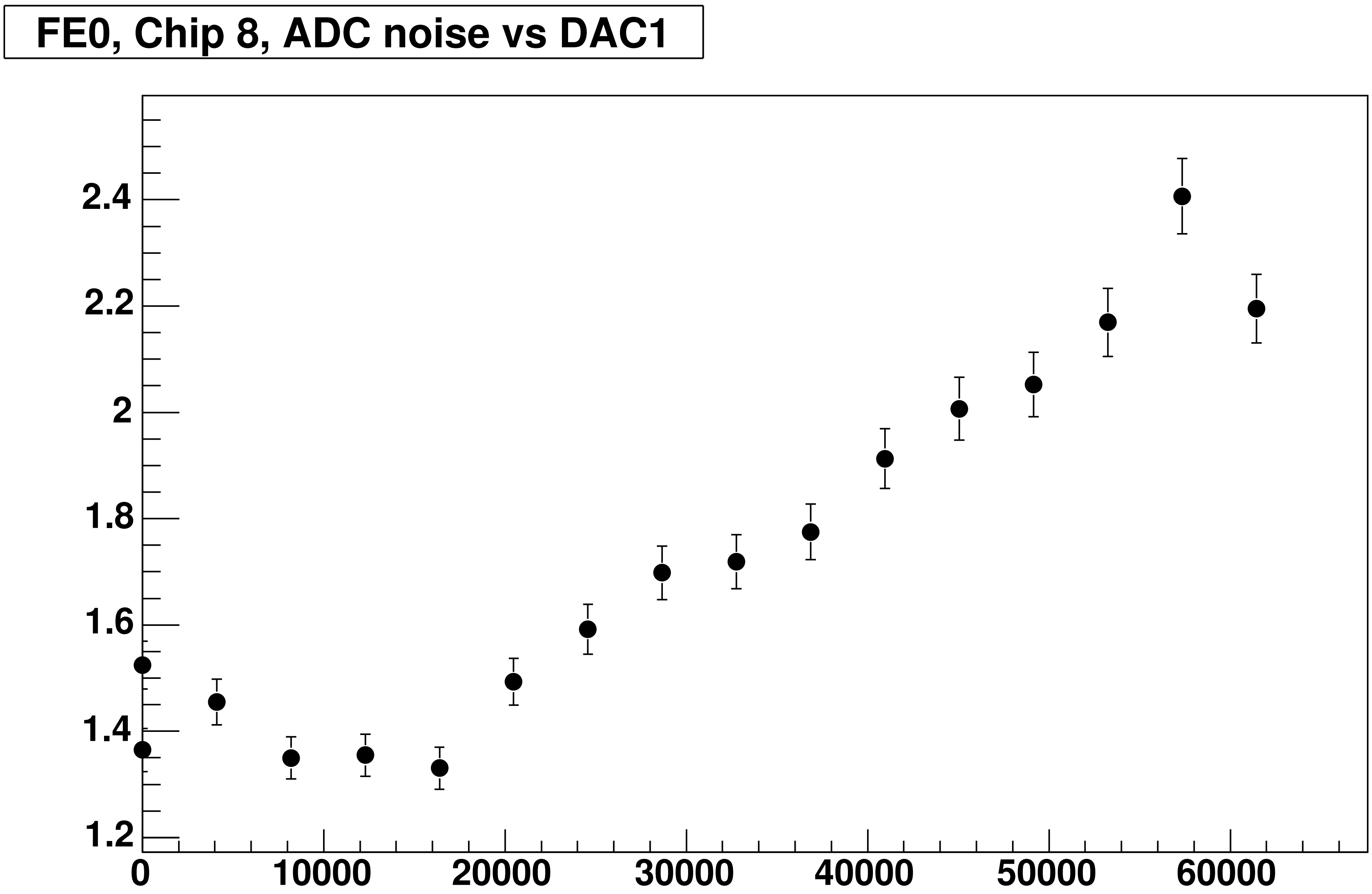
FE0, Chip 8, ADC mean vs DAC0
χ^2 / ndf 24.81 / 11
p0 -29.03 ± 0.03943
p1 -1.041e-06 ± 1.098e-06
-28.85
-28.9
-28.95
-29
-29.05
-29.1
-29.15
-29.2
-29.25
0
10000
20000
30000
40000
50000
60000

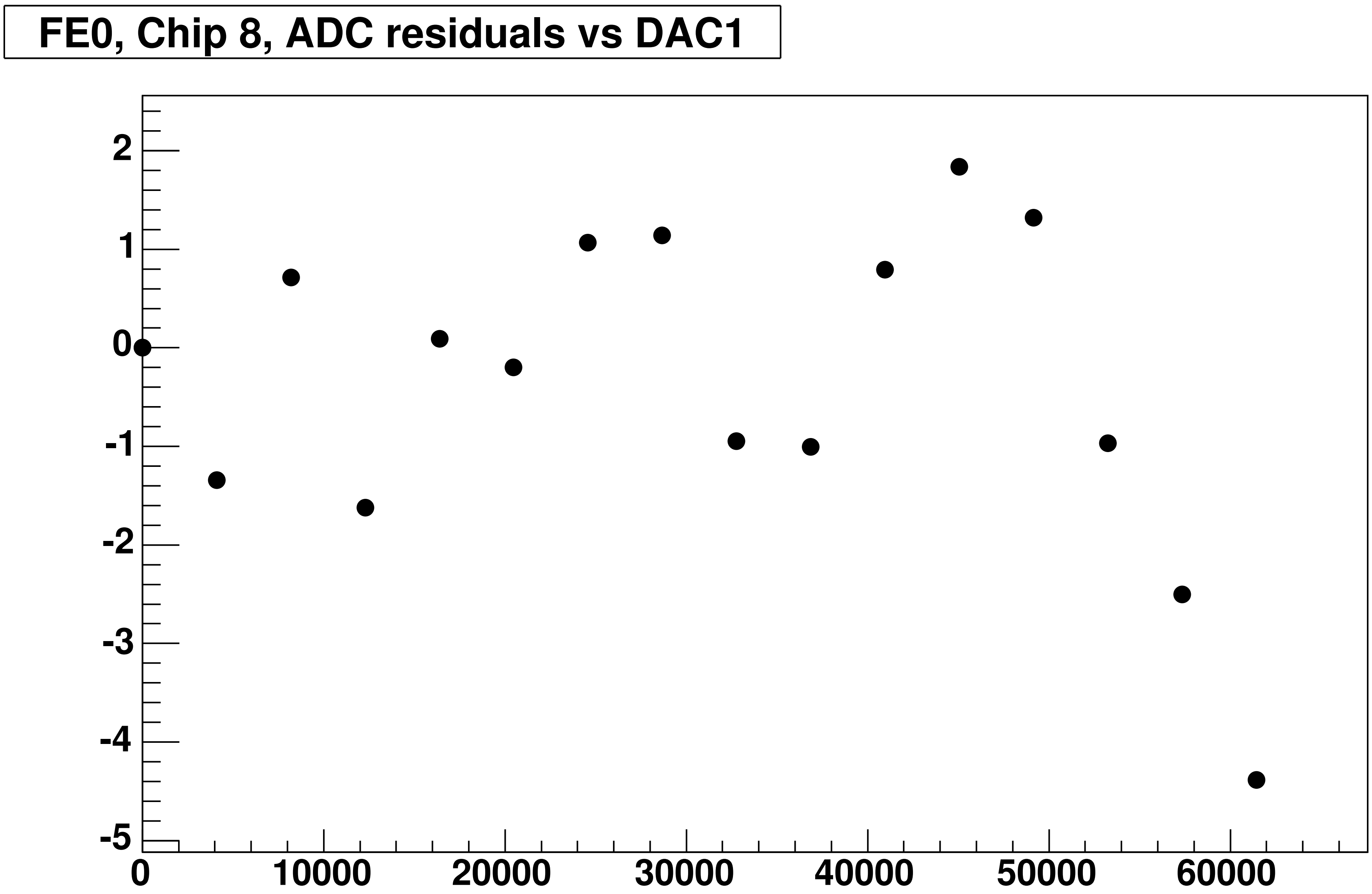
FE0, Chip 8, ADC noise vs DAC0

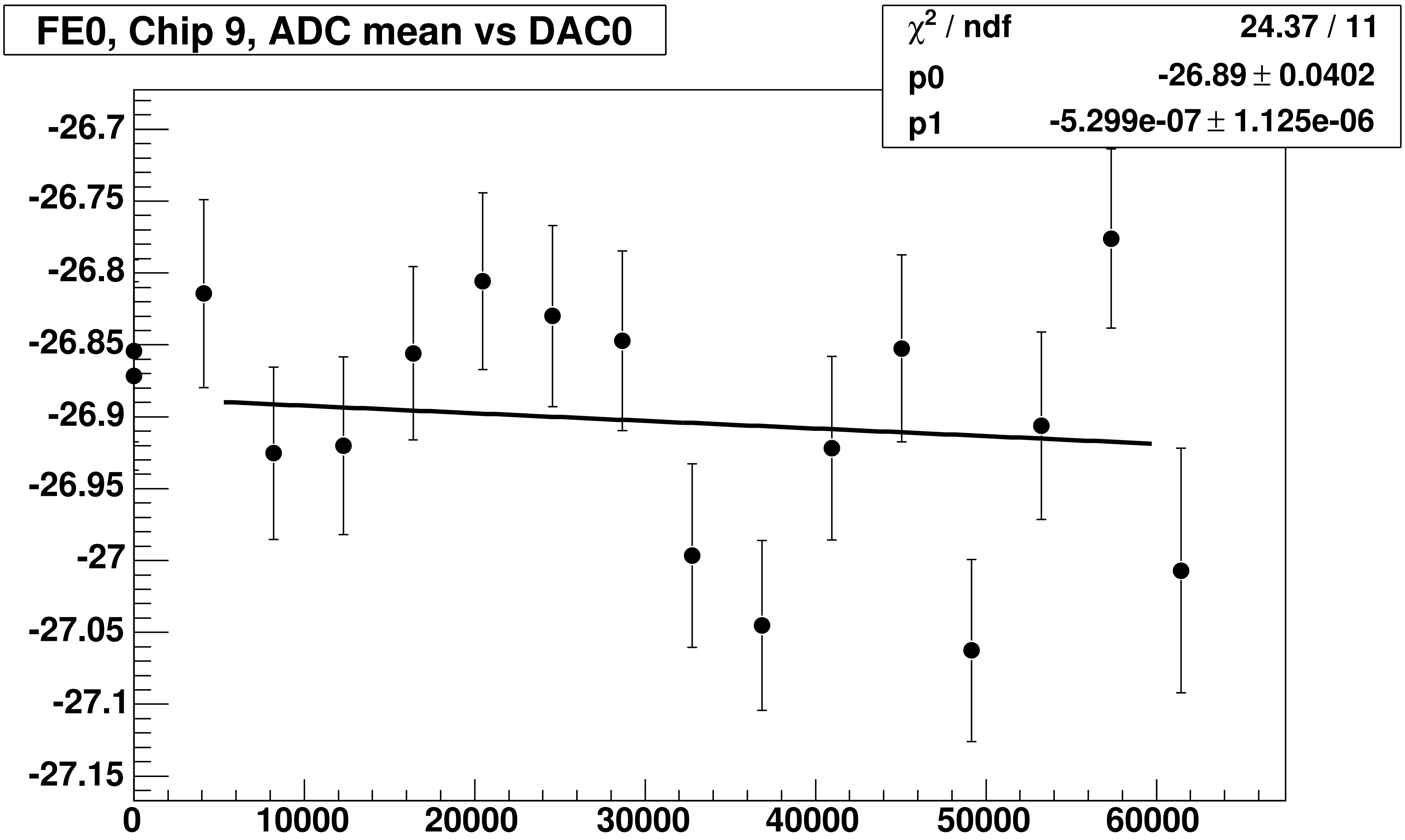



FE0, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

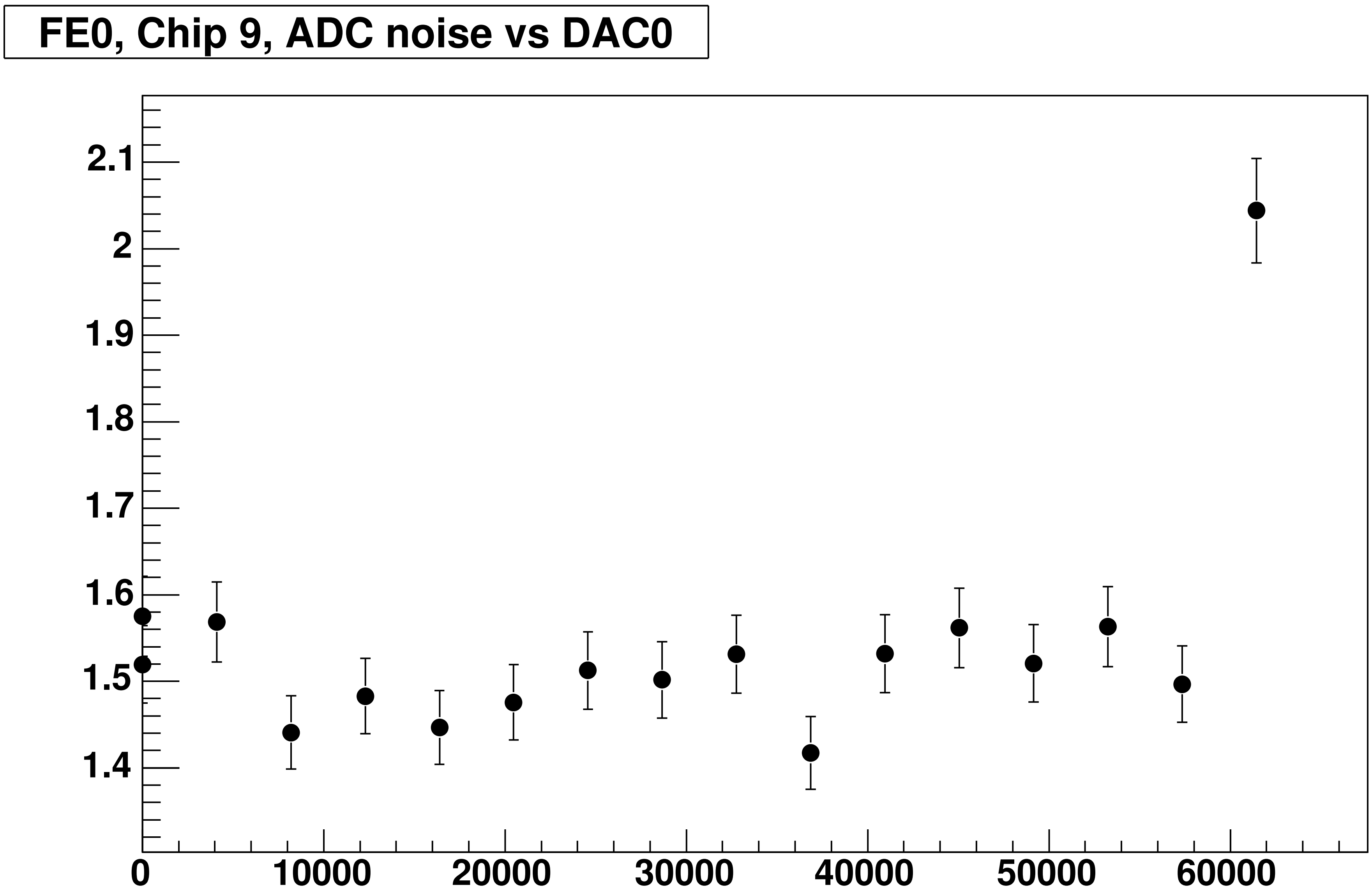

FE0, Chip 8, ADC mean vs DAC1
χ^2 / ndf 3436 / 11
p0 -27.66 ± 0.04101
p1 0.4511 ± 1.321e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

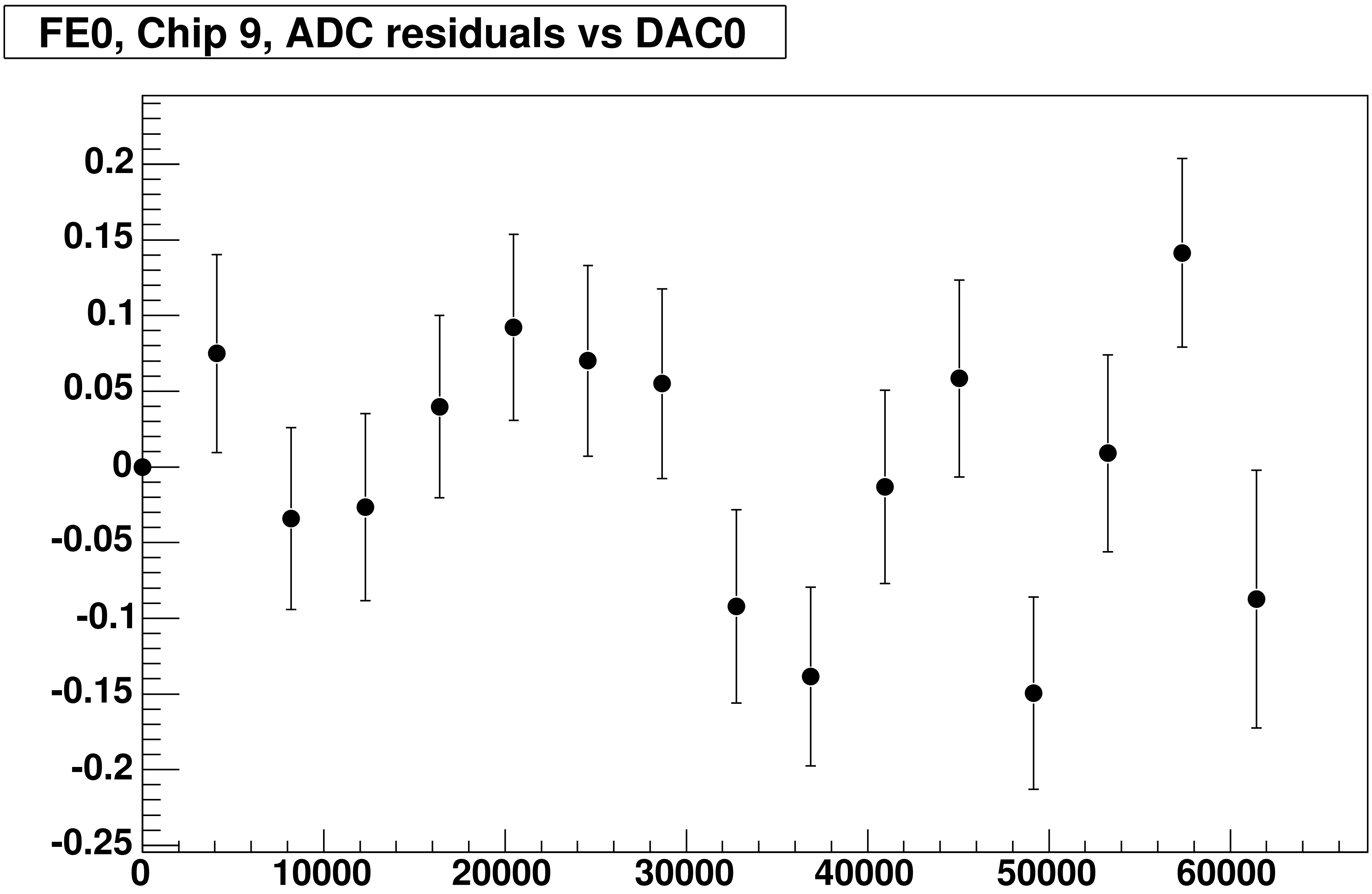

FE0, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

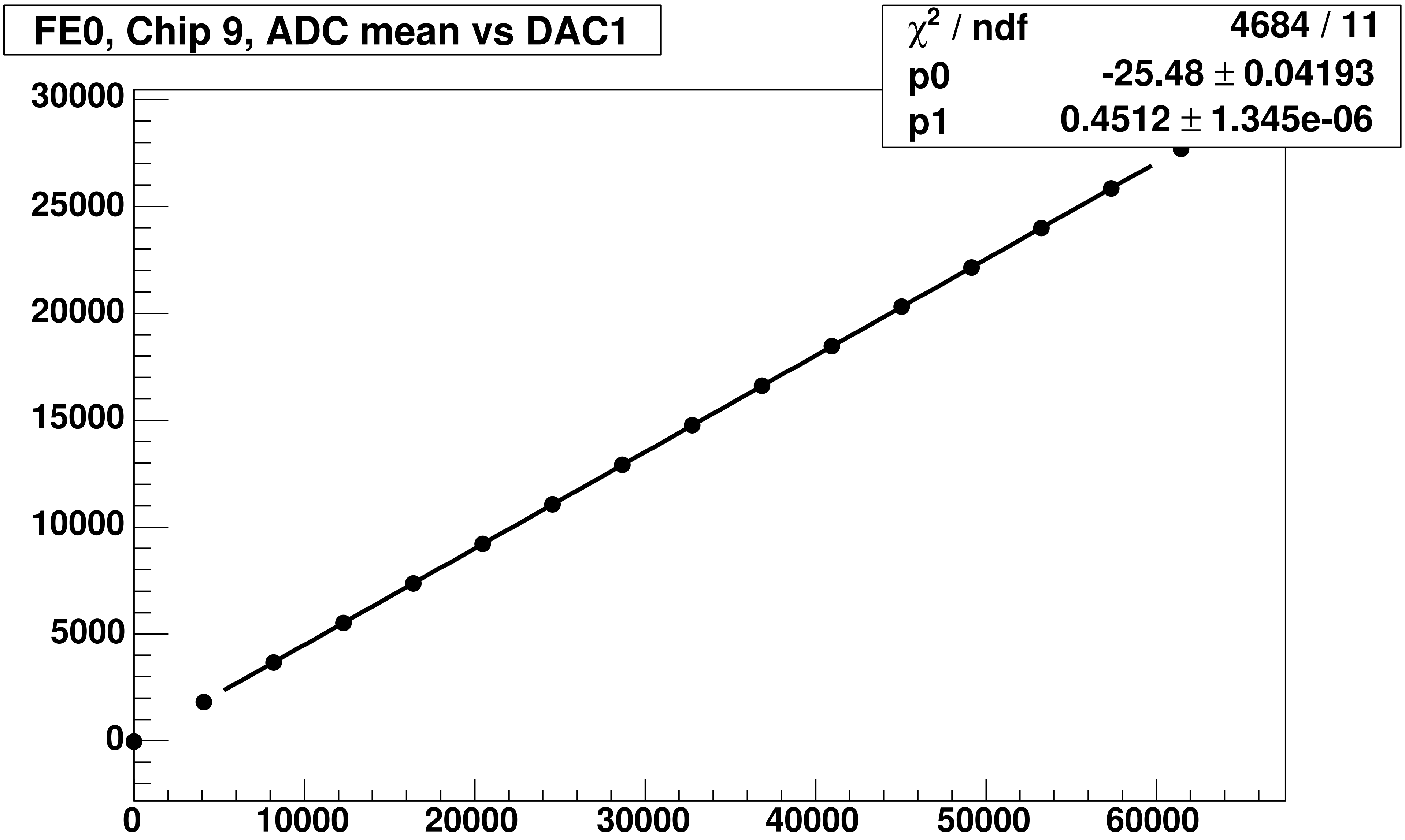

FE0, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



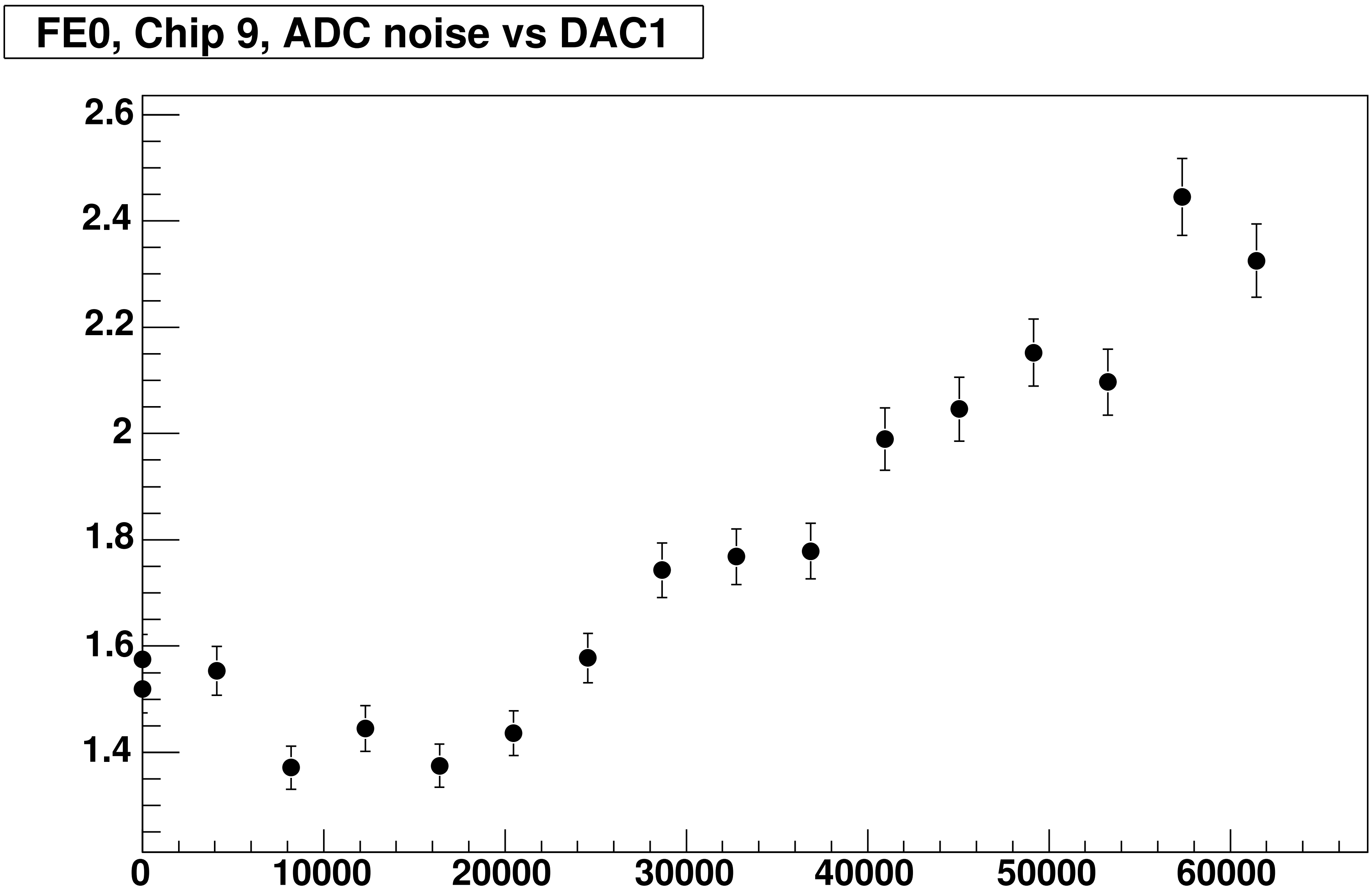
FE0, Chip 9, ADC mean vs DAC0
χ² / ndf 24.37 / 11
p0 -26.89 ± 0.0402
p1 -5.299e-07 ± 1.125e-06
-26.7
-26.75
-26.8
-26.85
-26.9
-26.95
-27
-27.05
-27.1
-27.15
0
10000
20000
30000
40000
50000
60000

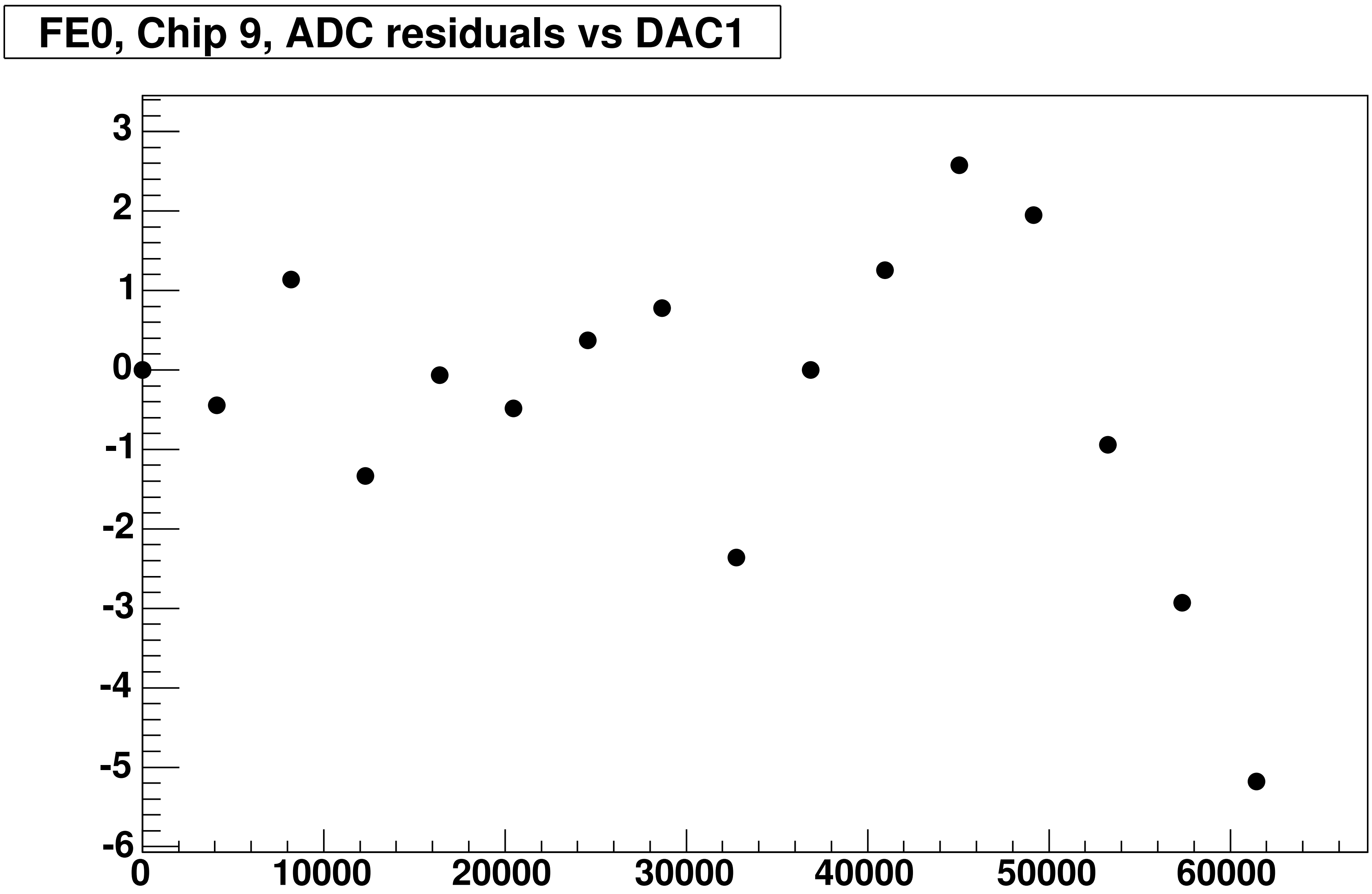

FE0, Chip 9, ADC noise vs DAC0
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

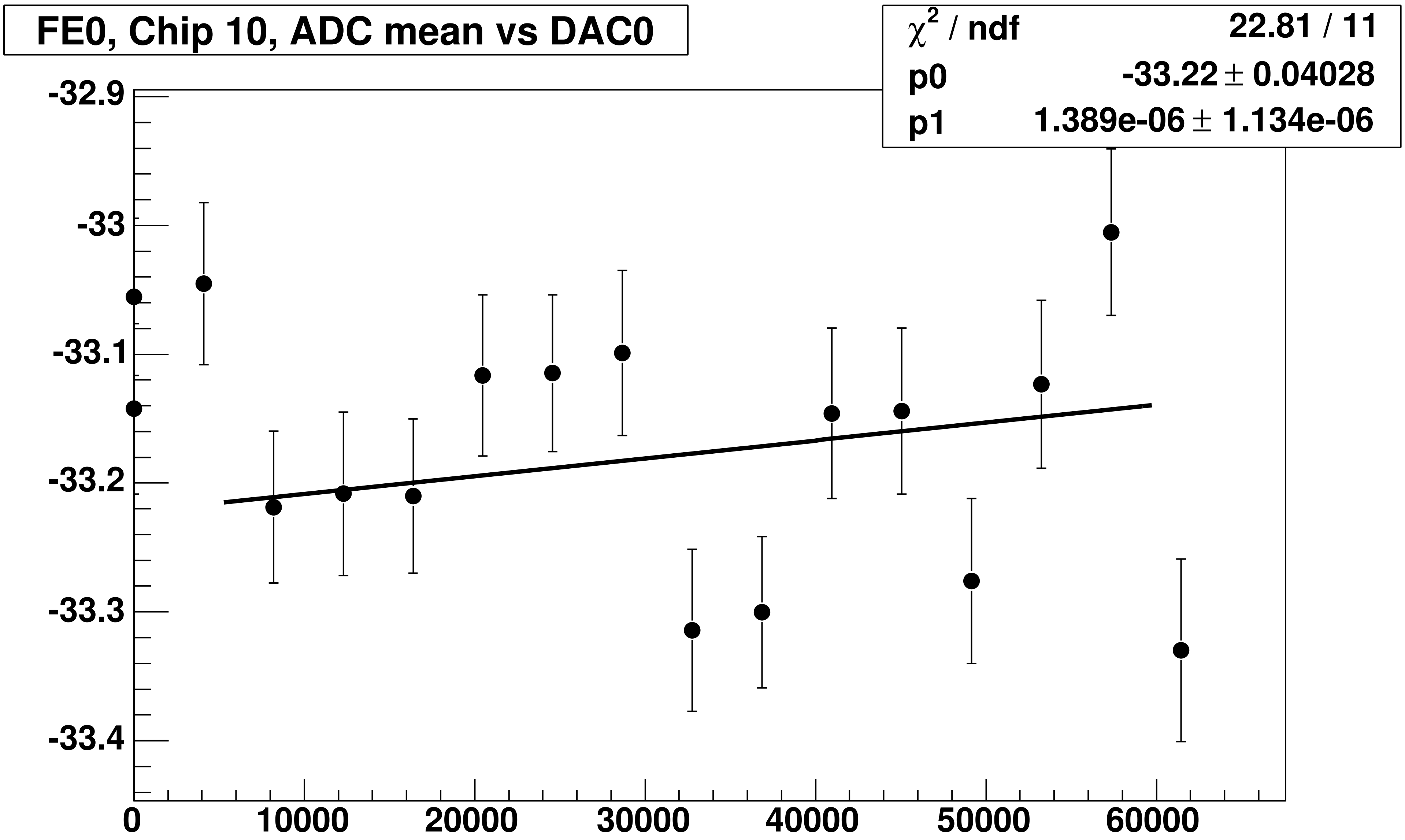

FE0, Chip 9, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000



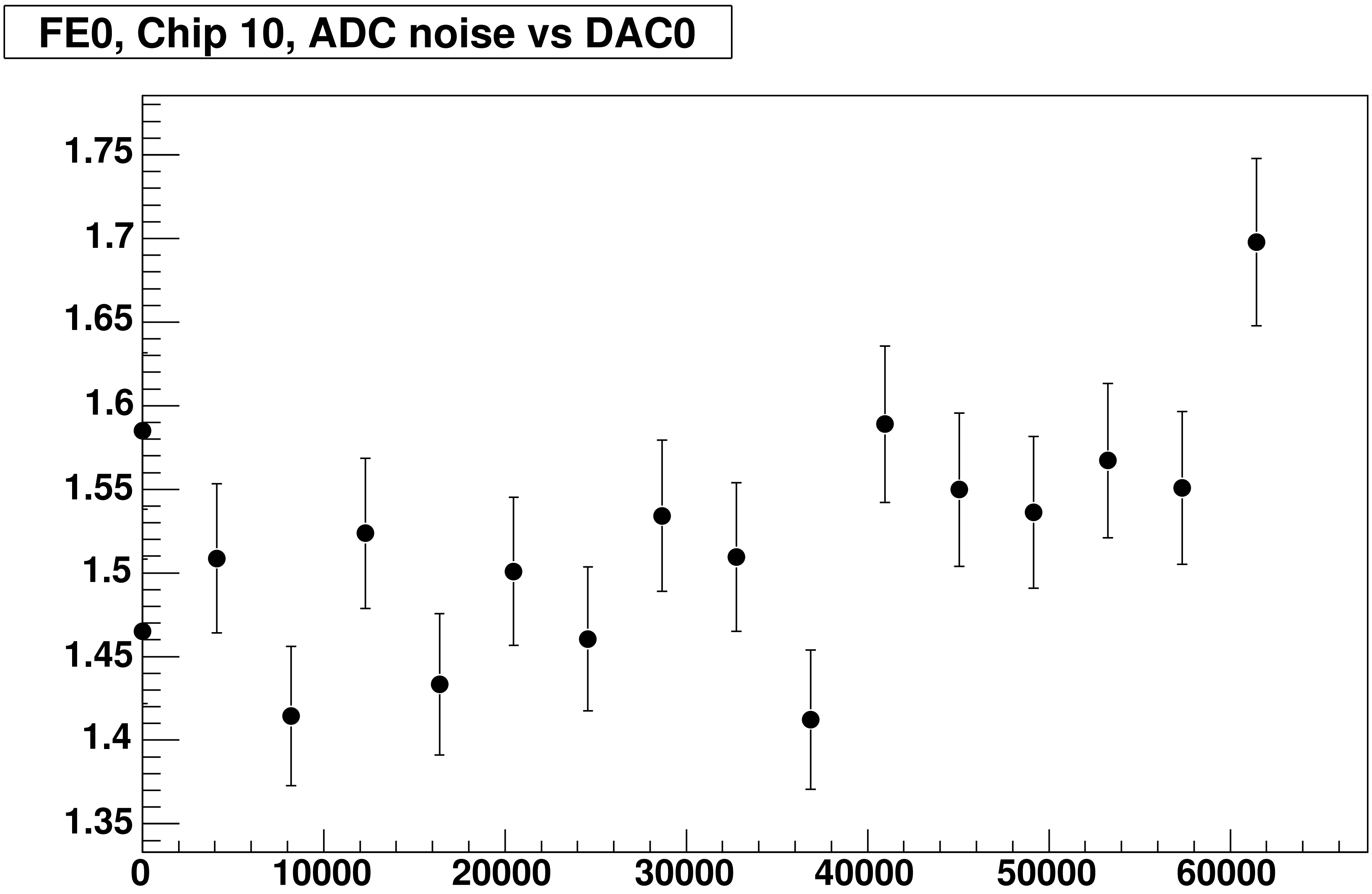
FE0, Chip 9, ADC mean vs DAC1
χ^2 / ndf 4684 / 11
p0 -25.48 ± 0.04193
p1 0.4512 ± 1.345e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

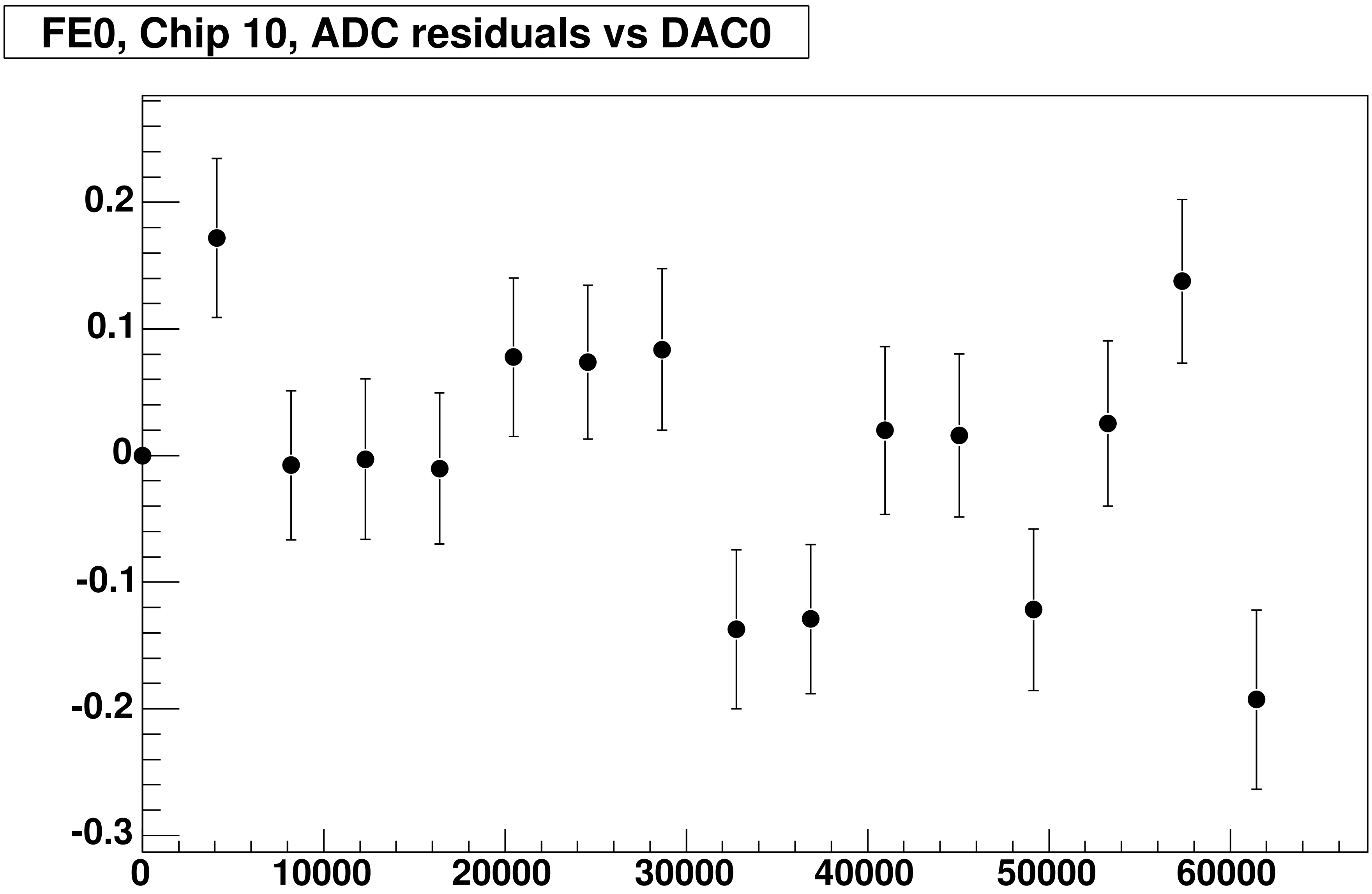

FE0, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

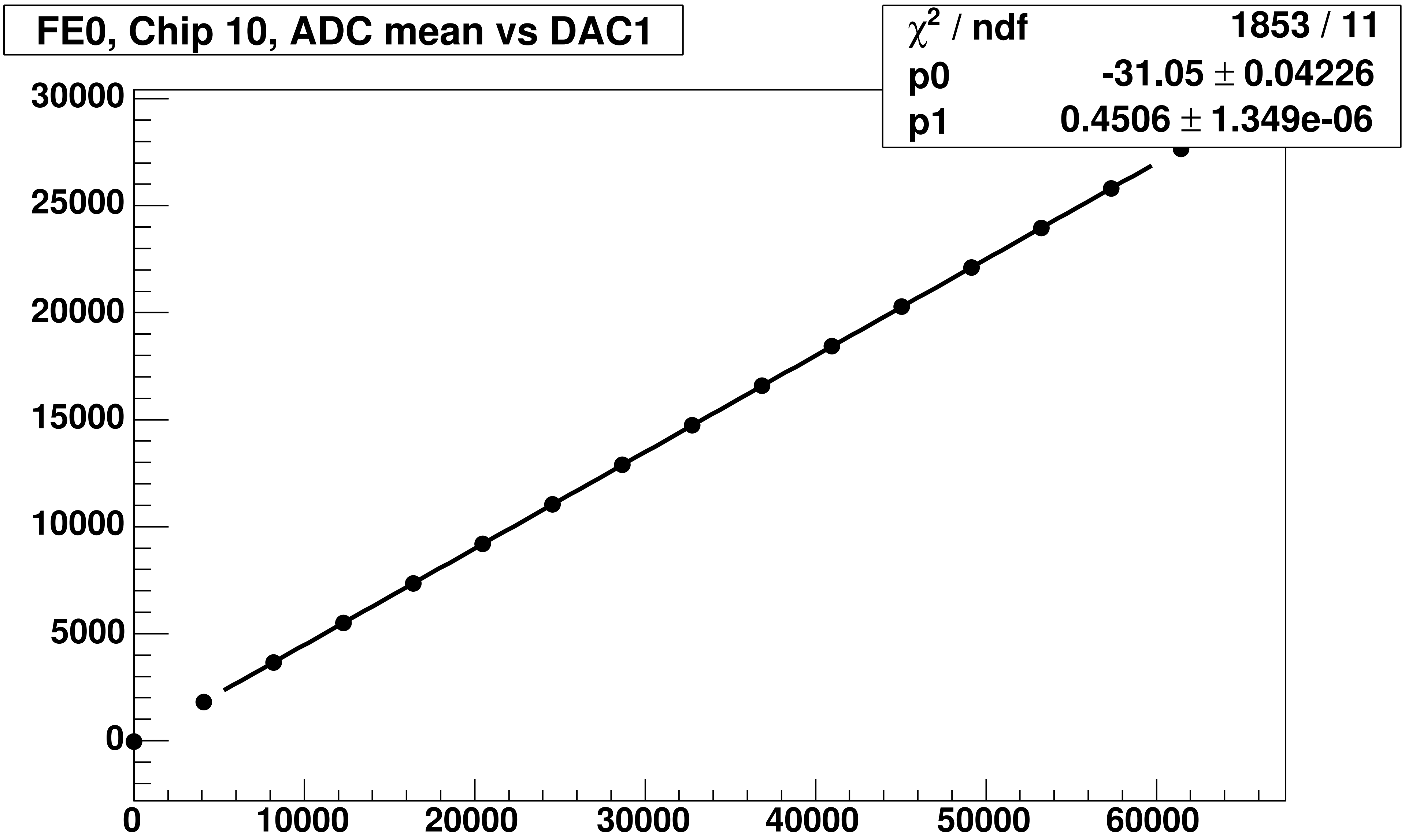

FE0, Chip 9, ADC residuals vs DAC1
3
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

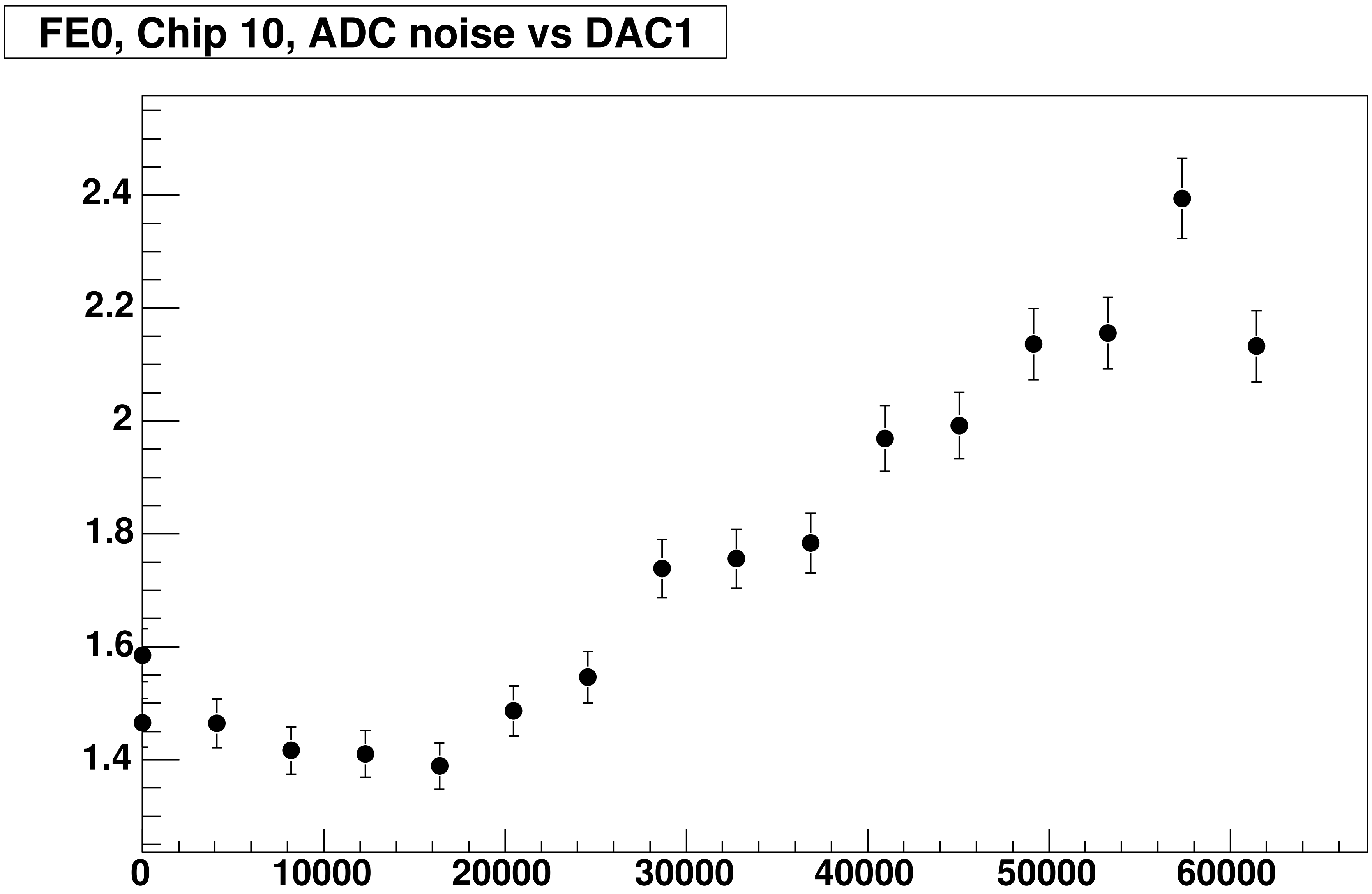


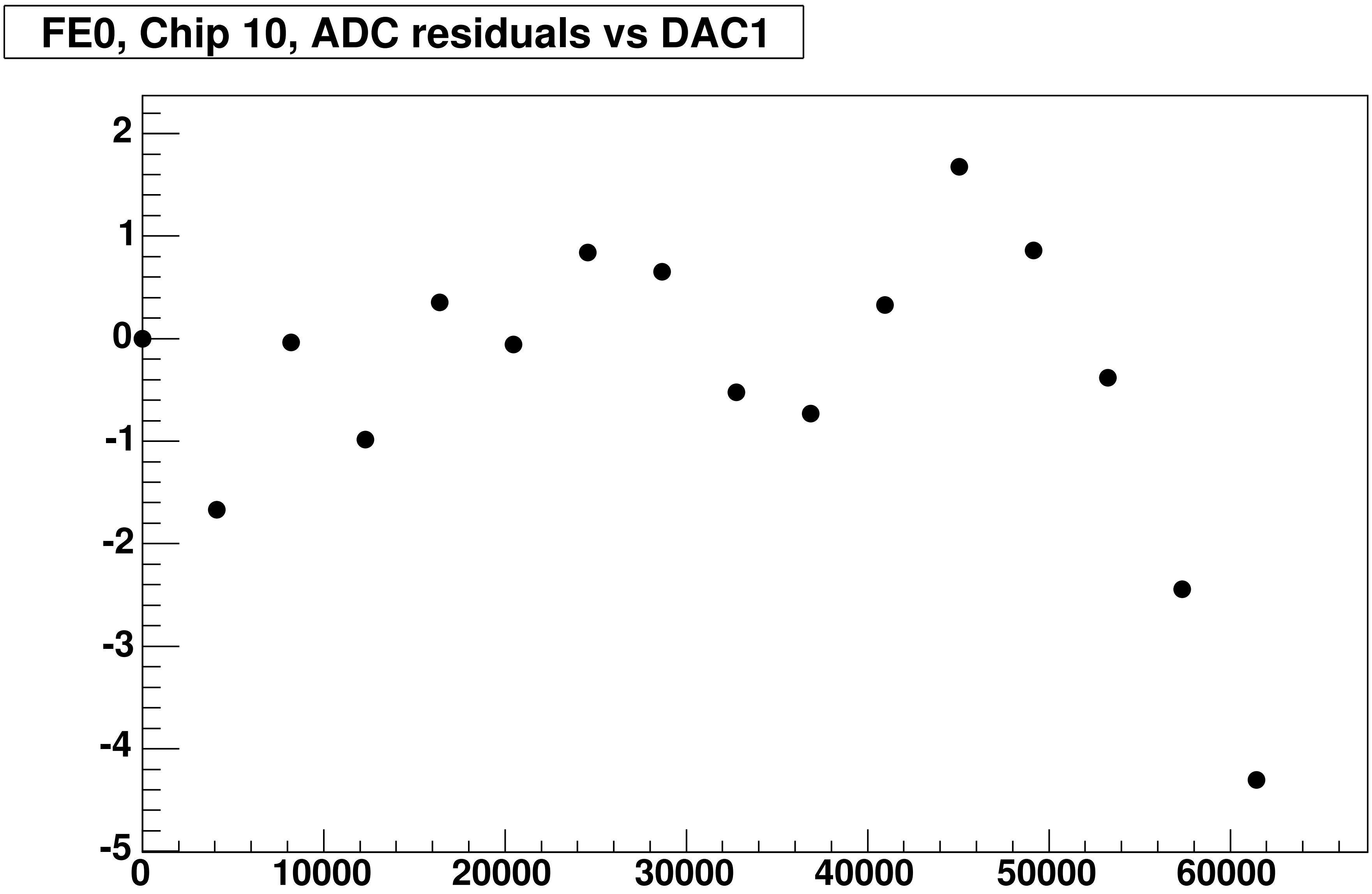
FE0, Chip 10, ADC mean vs DAC0
χ^2 / ndf 22.81 / 11
p0 -33.22 ± 0.04028
p1 1.389e-06 ± 1.134e-06
-32.9
-33
-33.1
-33.2
-33.3
-33.4
0
10000
20000
30000
40000
50000
60000

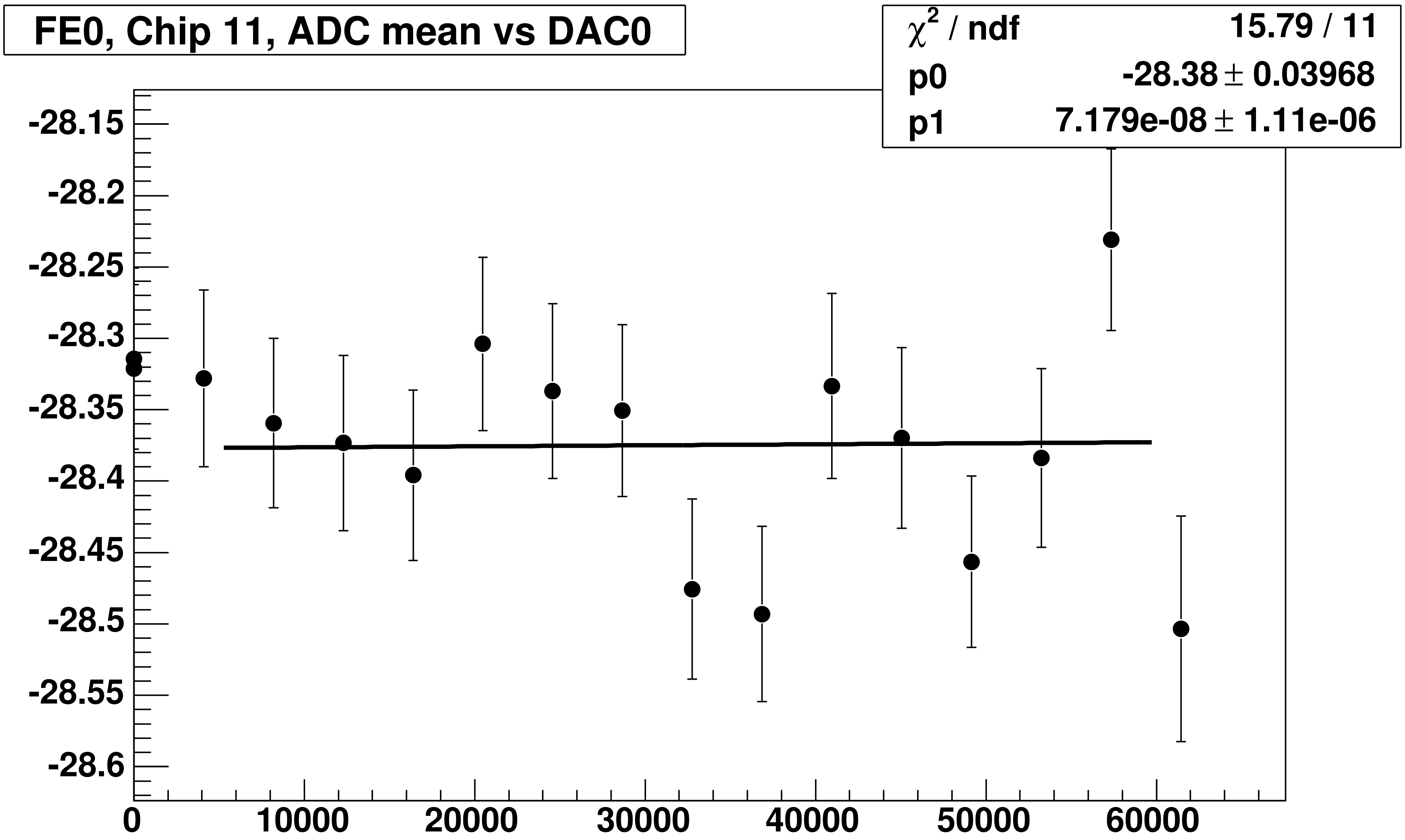

FE0, Chip 10, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

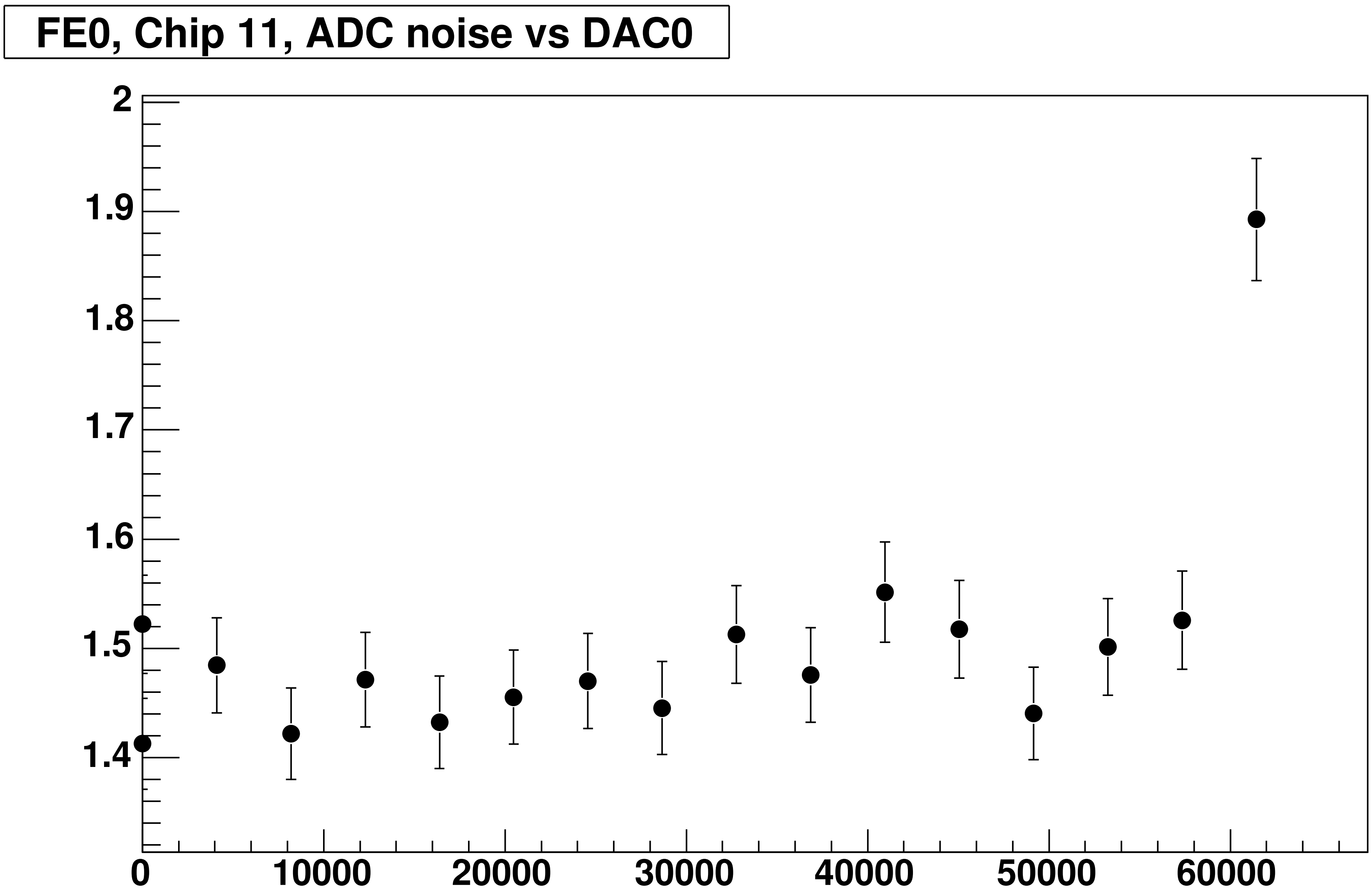

FE0, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

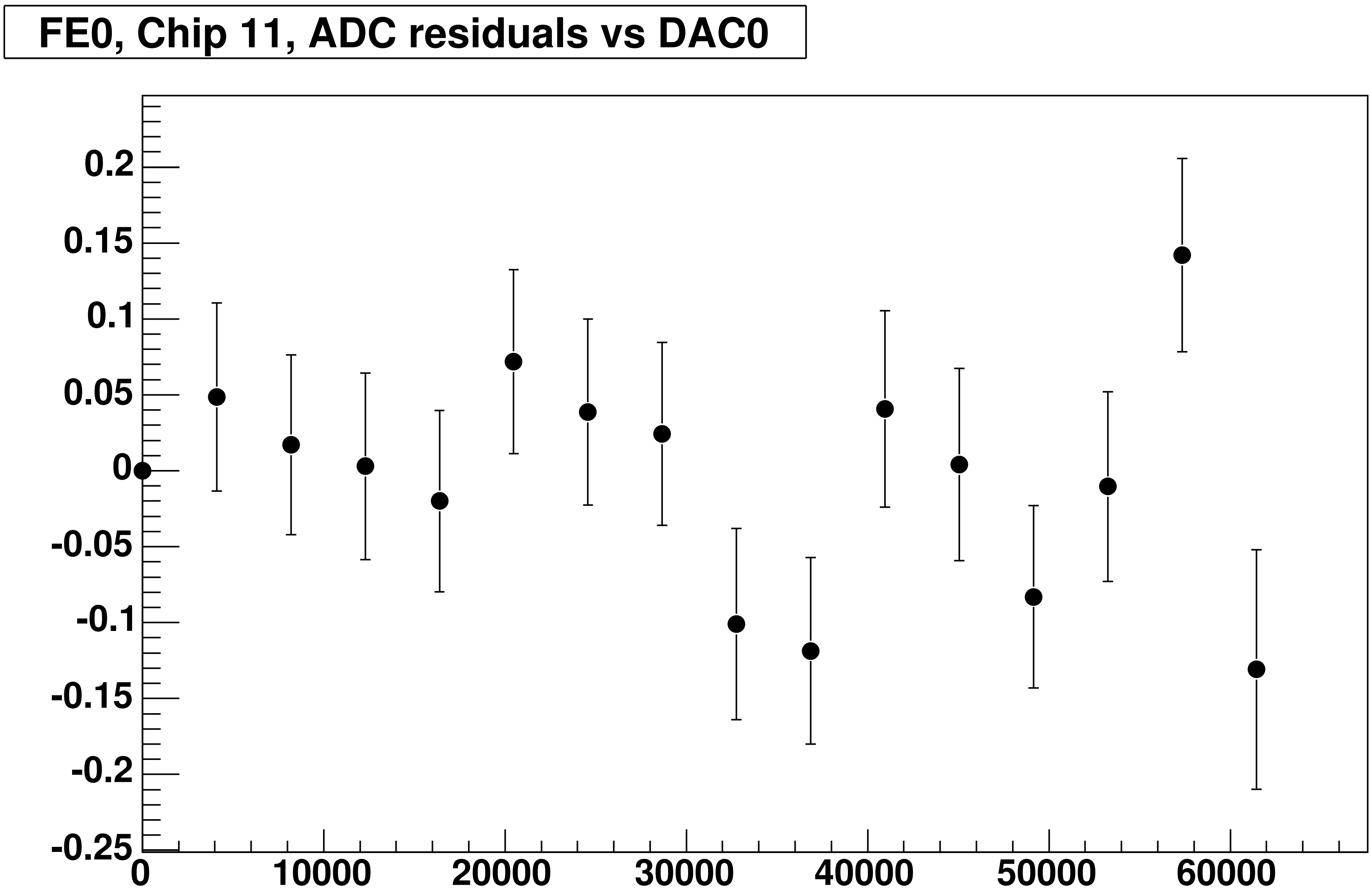

FE0, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1853 / 11
p0 -31.05 ± 0.04226
p1 0.4506 ± 1.349e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

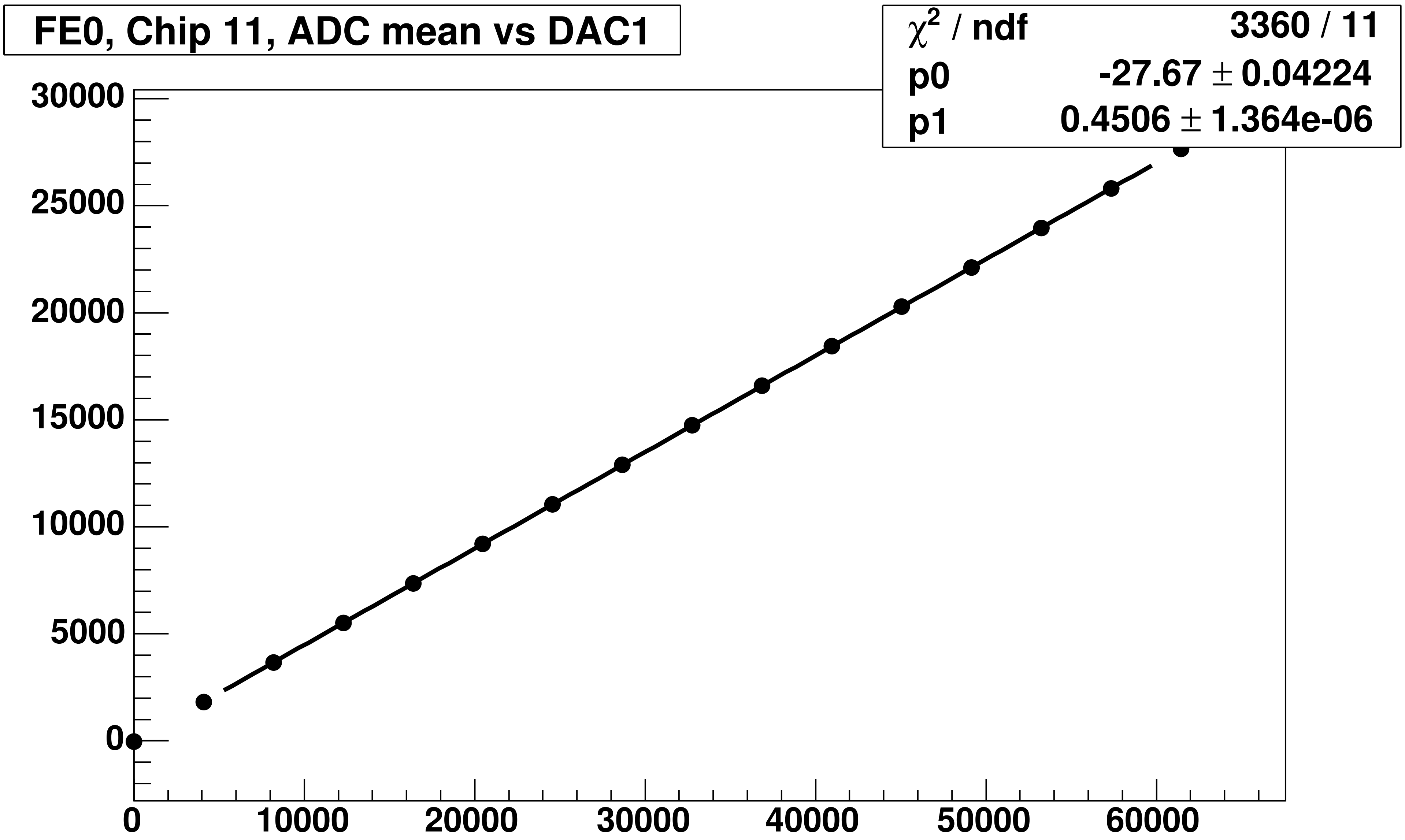

FE0, Chip 10, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

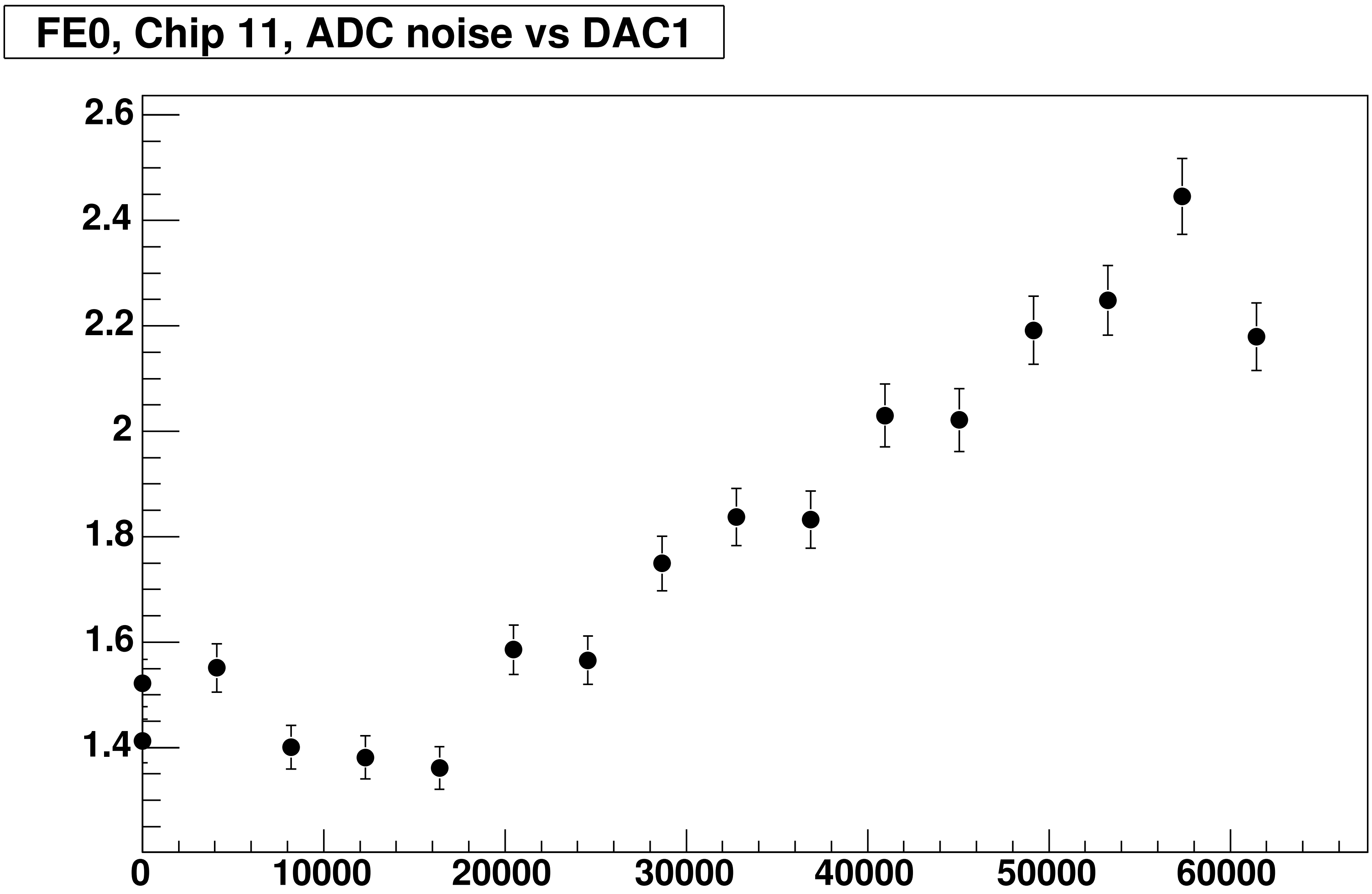

FE0, Chip 11, ADC mean vs DAC0
χ^2 / ndf 15.79 / 11
p0 -28.38 ± 0.03968
p1 7.179e-08 ± 1.11e-06
-28.15
-28.2
-28.25
-28.3
-28.35
-28.4
-28.45
-28.5
-28.55
-28.6
0
10000
20000
30000
40000
50000
60000

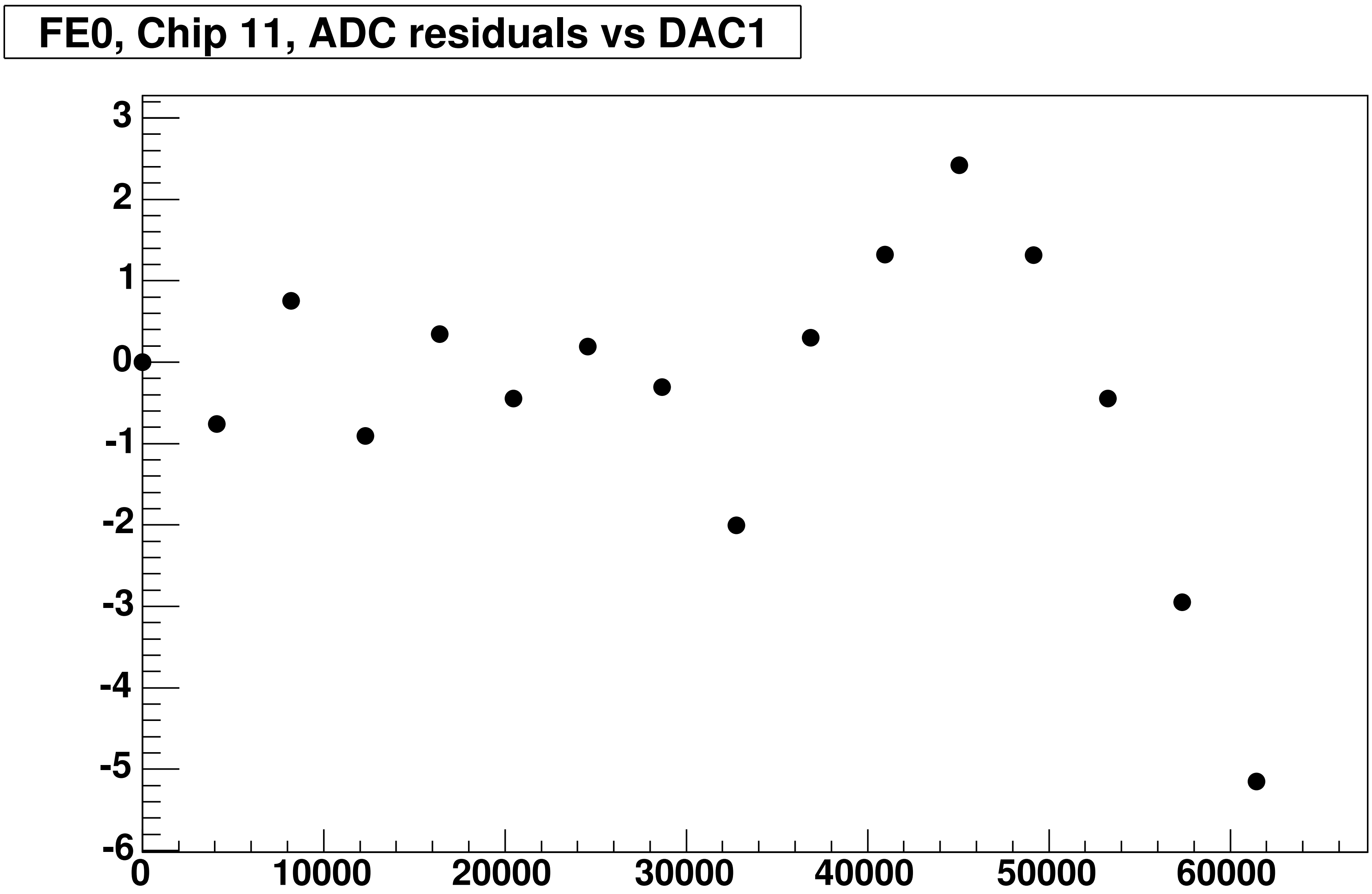

FE0, Chip 11, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

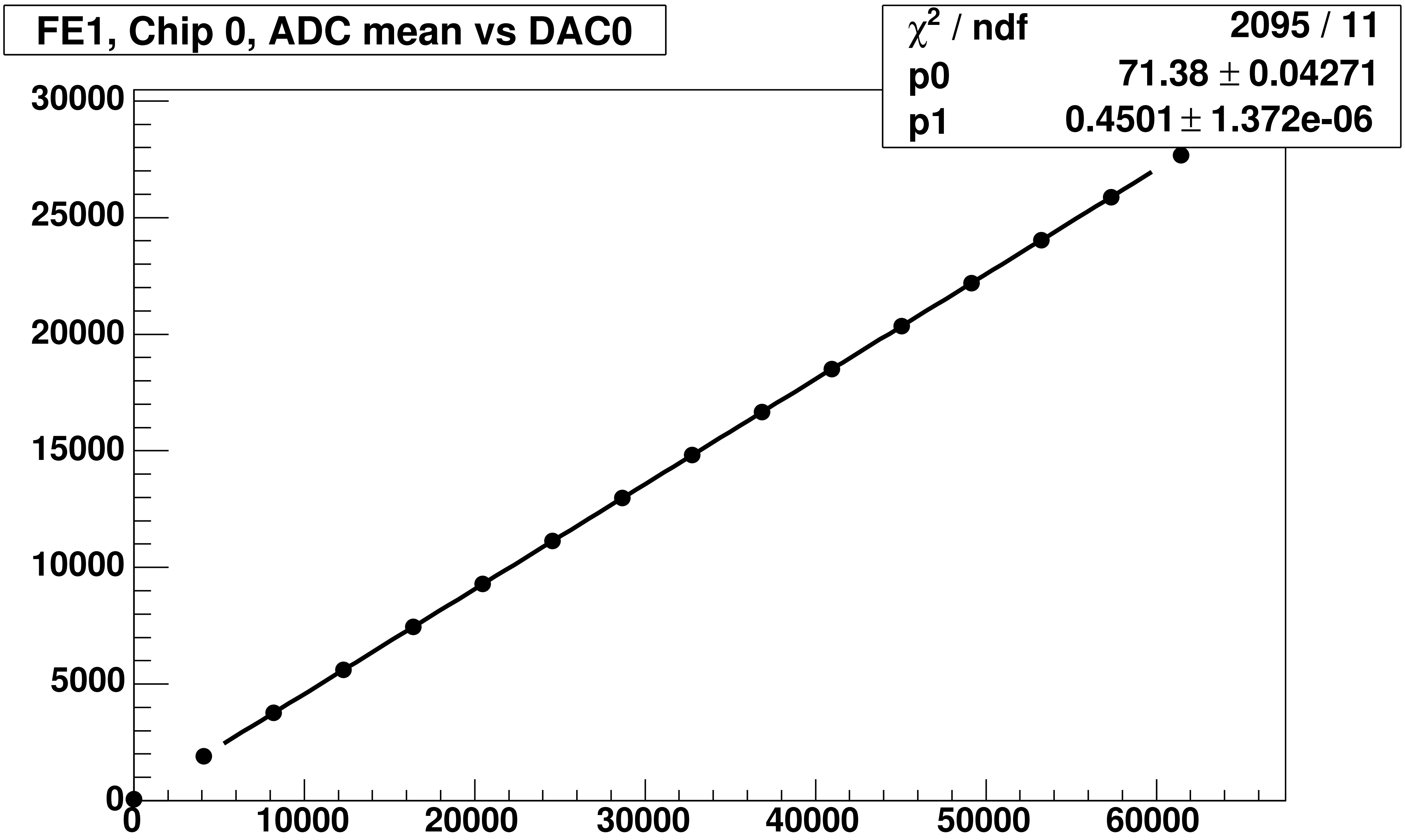

FE0, Chip 11, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

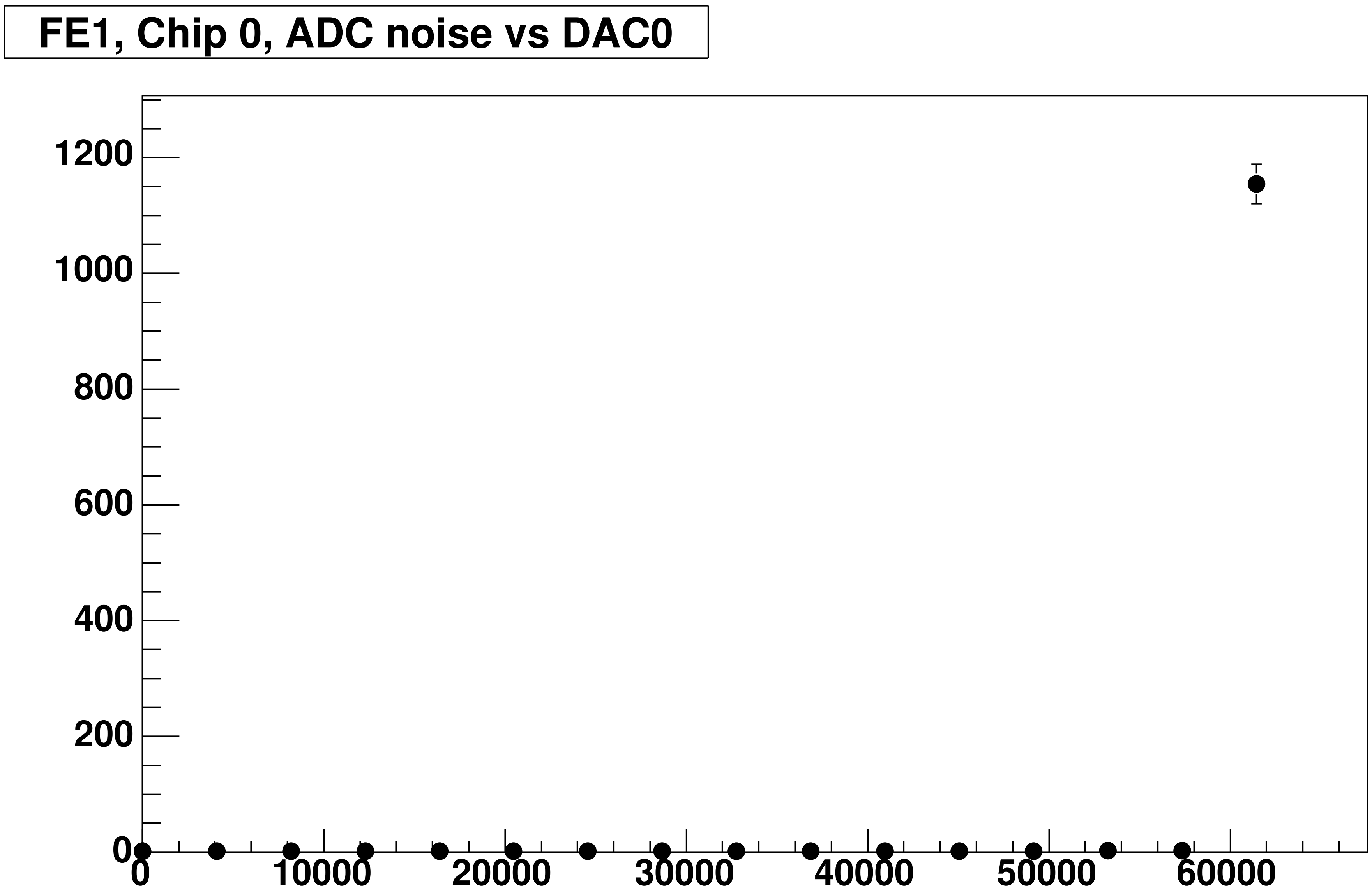


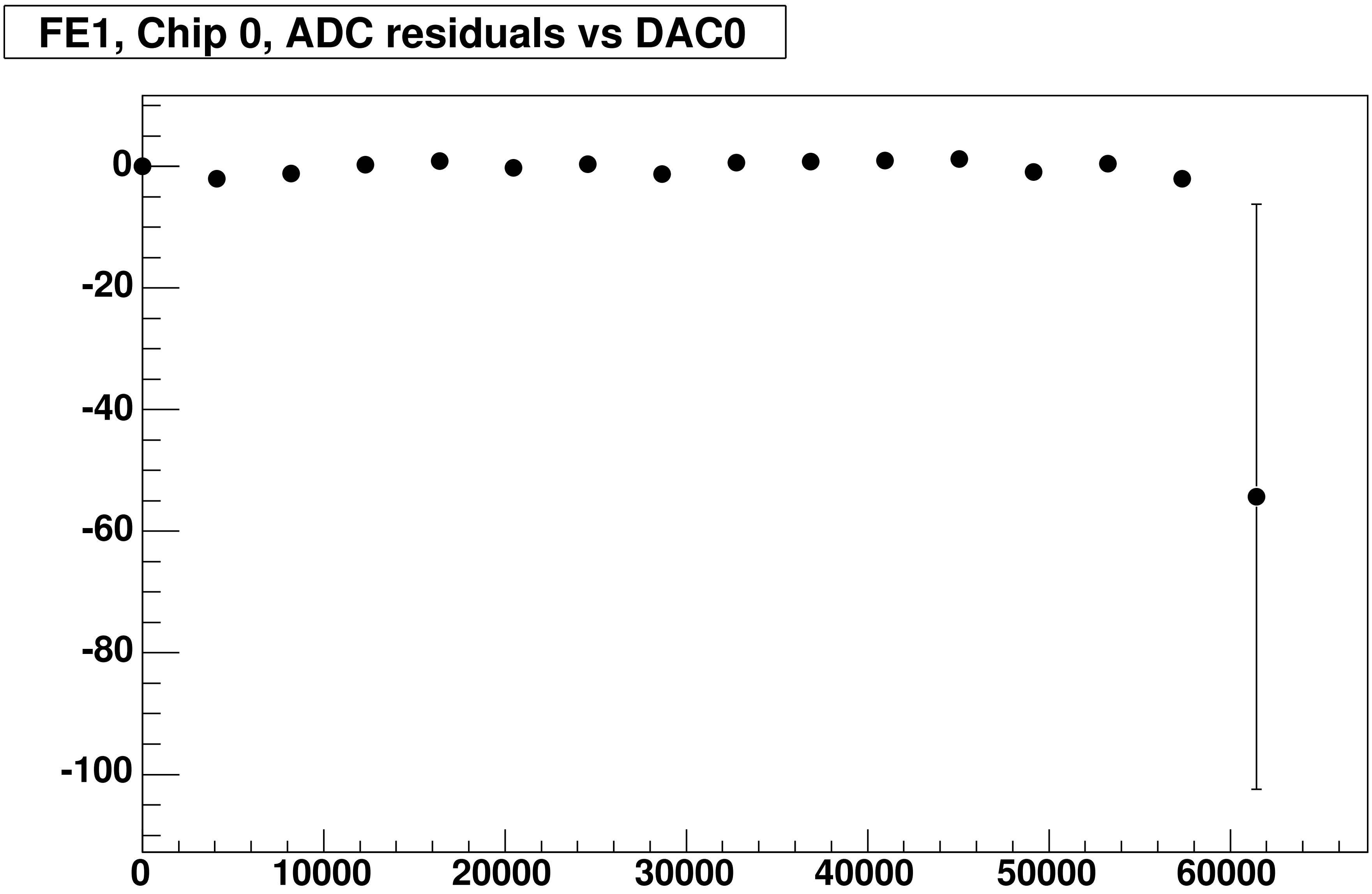
FE0, Chip 11, ADC mean vs DAC1
χ^2 / ndf 3360 / 11
p0 -27.67 ± 0.04224
p1 0.4506 ± 1.364e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

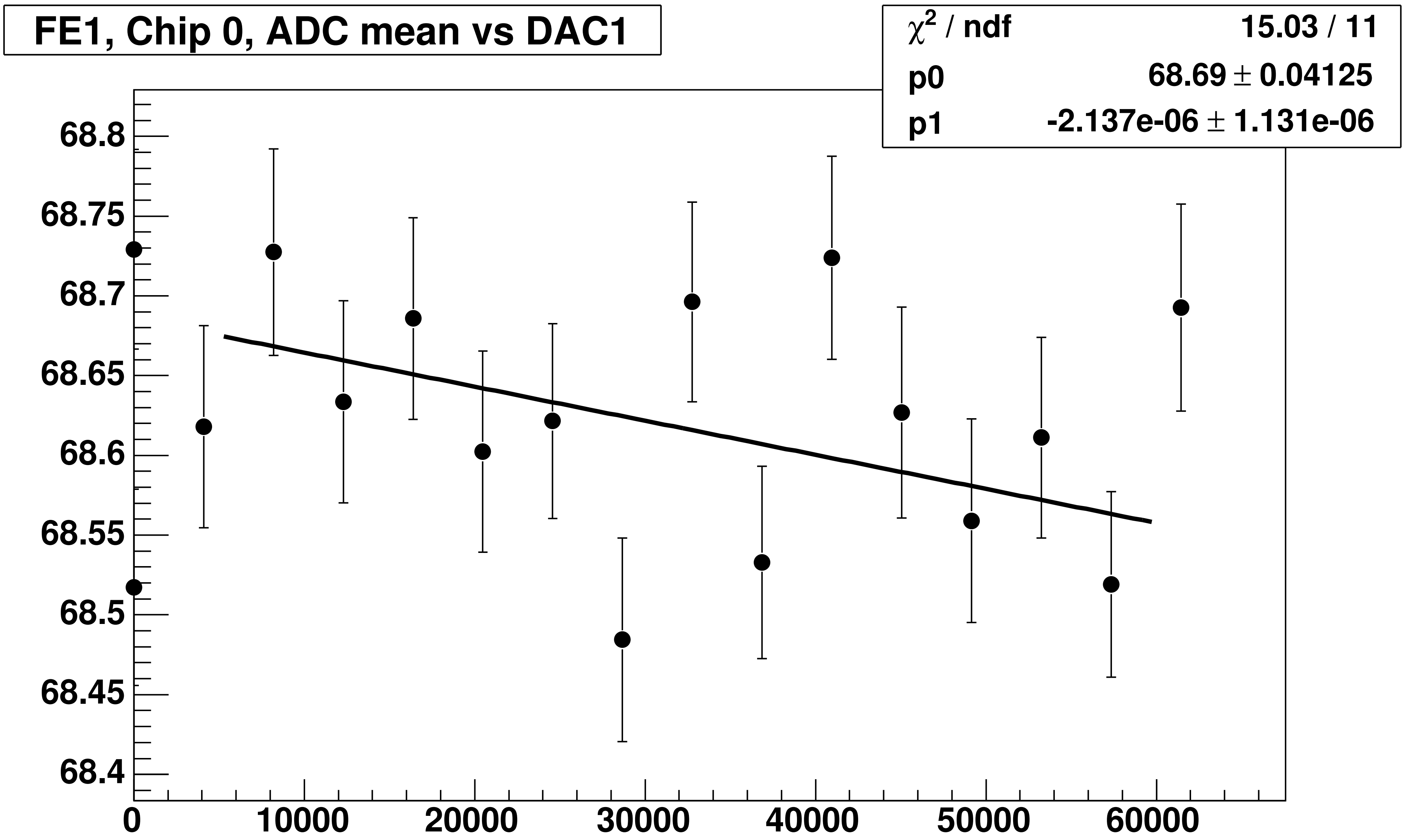

FE0, Chip 11, ADC residuals vs DAC1
3
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE1, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2095 / 11
p0 71.38 ± 0.04271
p1 0.4501 ± 1.372e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

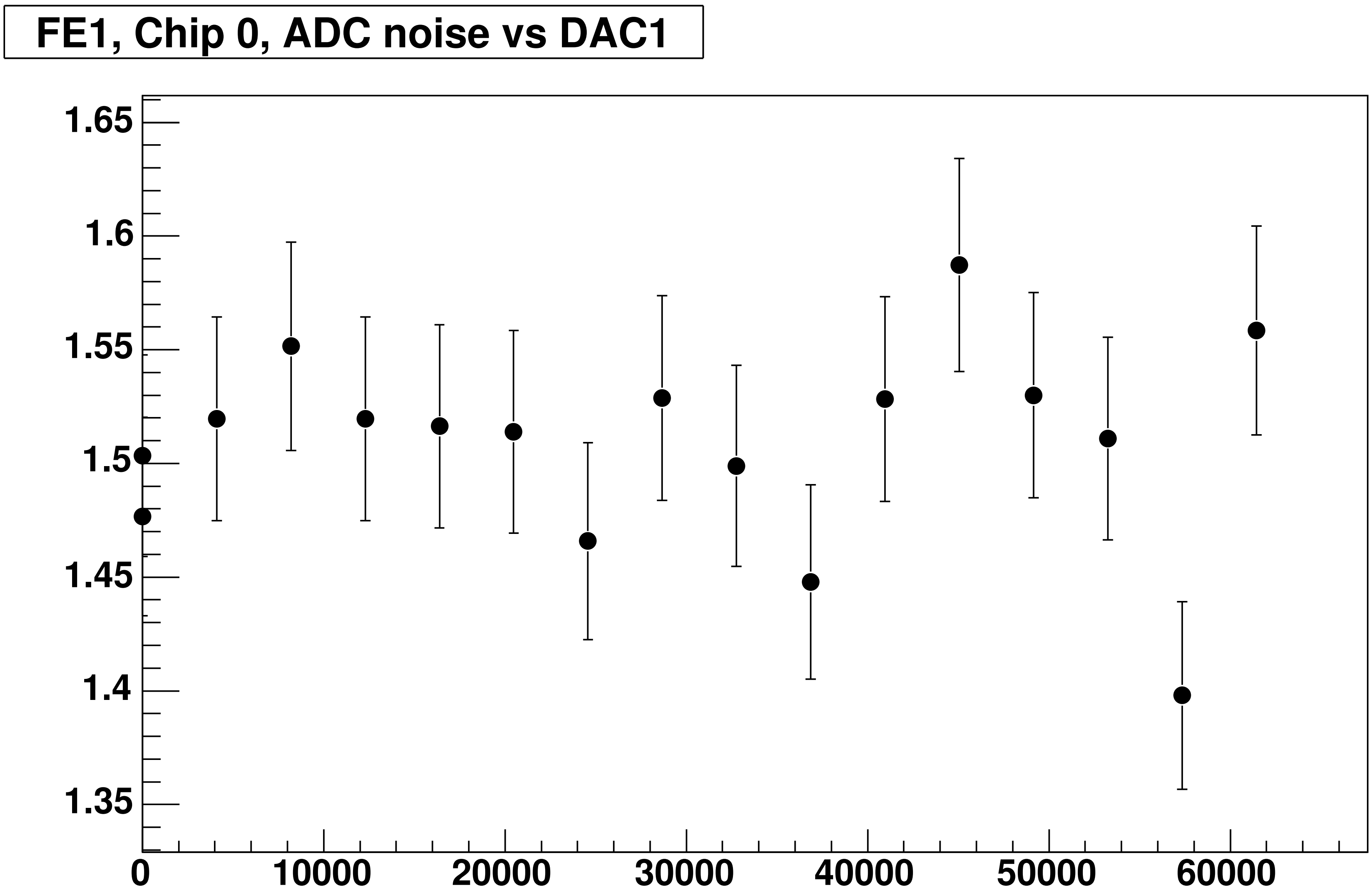

FE1, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

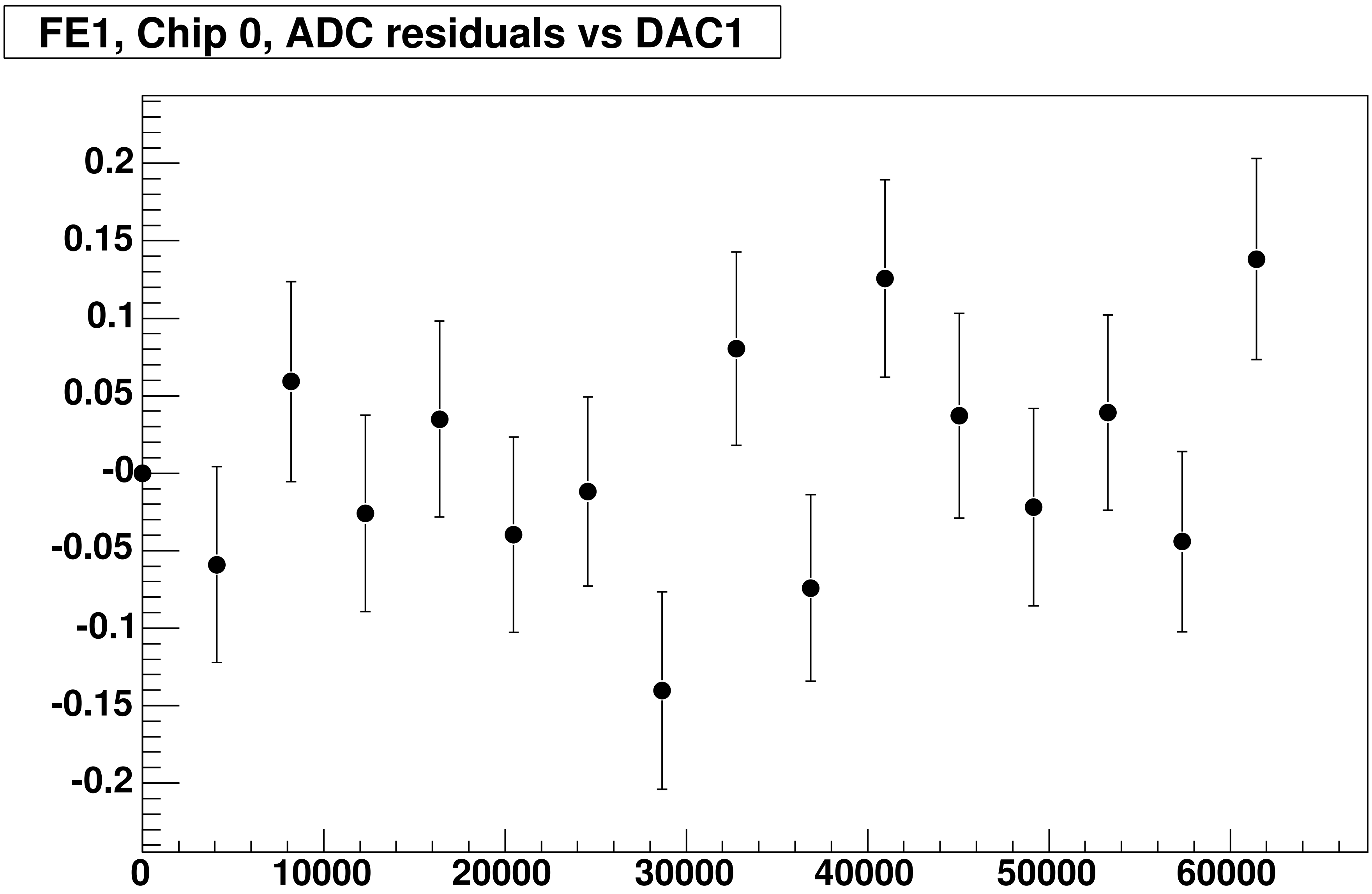


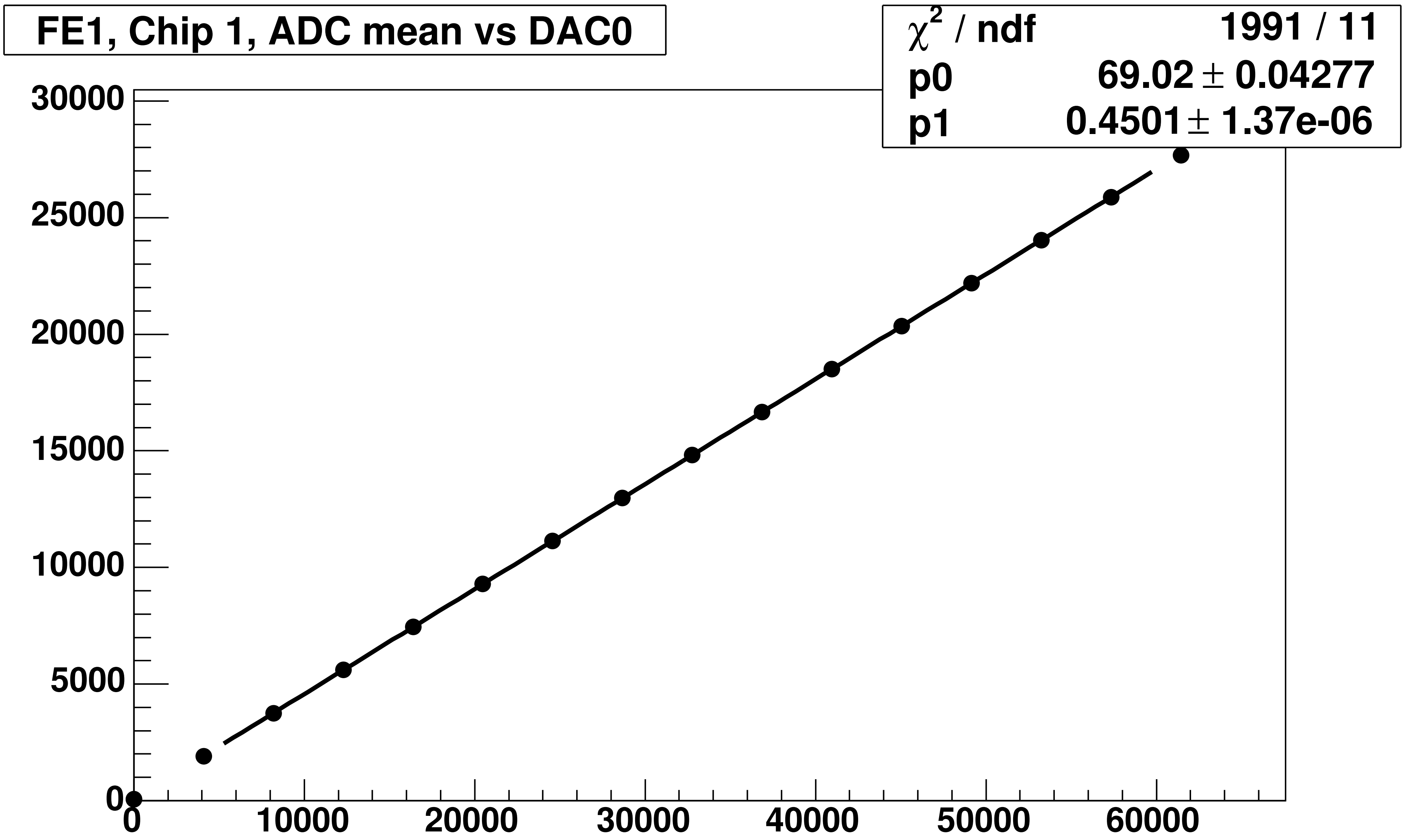
FE1, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



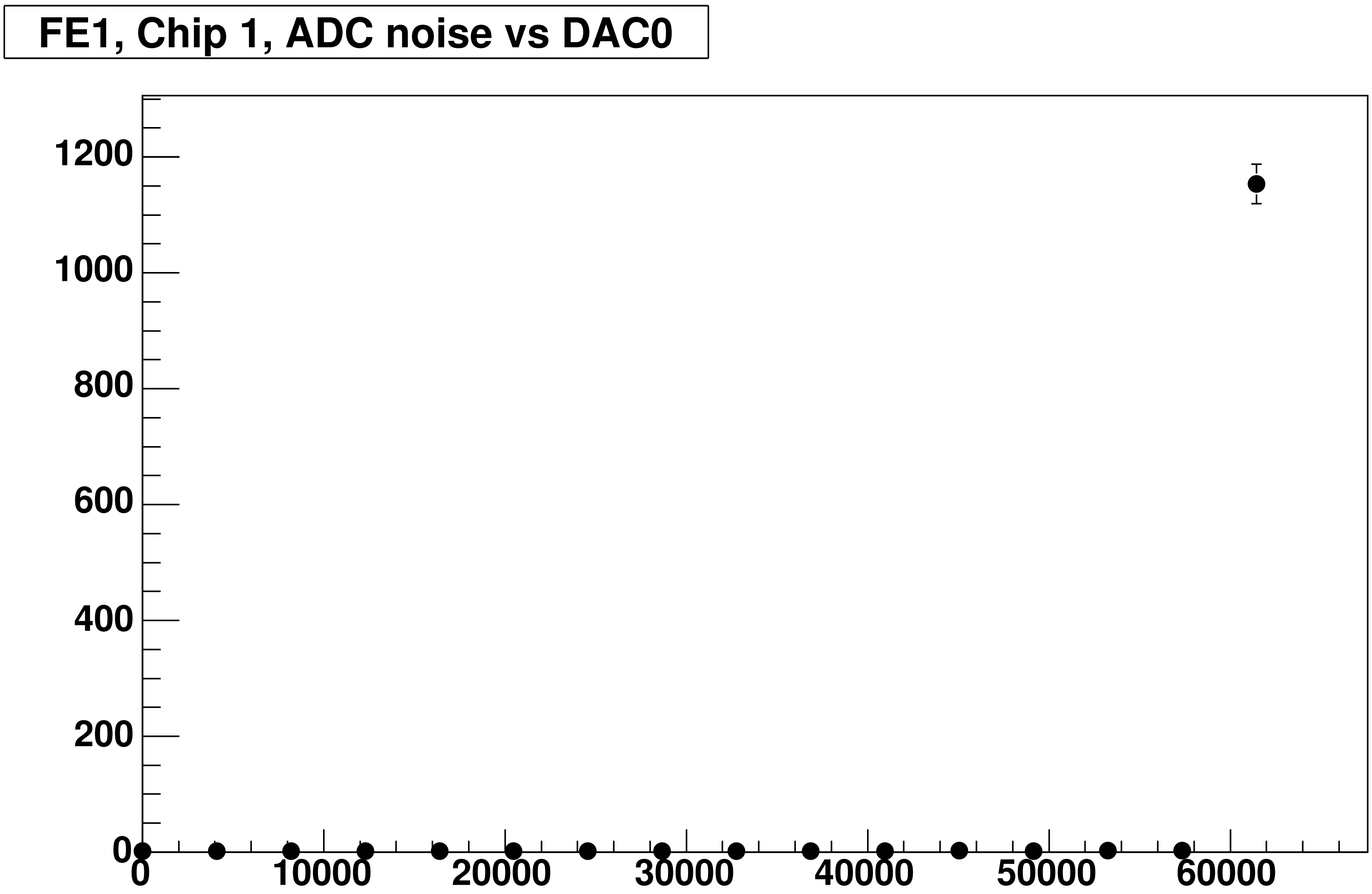
FE1, Chip 0, ADC mean vs DAC1
χ2 / ndf 15.03 / 11
p0 68.69 ± 0.04125
p1 -2.137e-06 ± 1.131e-06
68.8
68.75
68.7
68.65
68.6
68.55
68.5
68.45
68.4
0
10000
20000
30000
40000
50000
60000

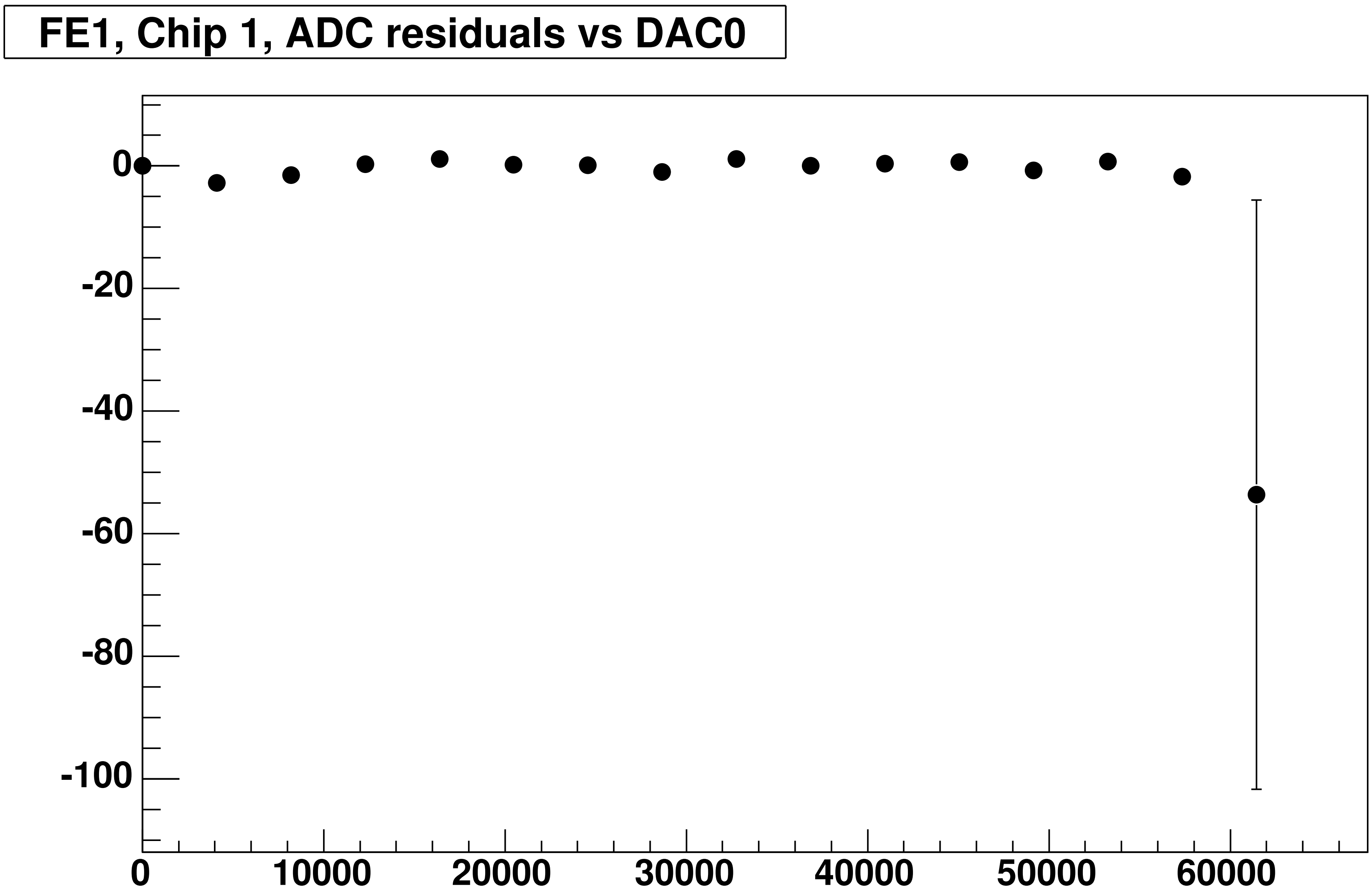

FE1, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE1, Chip 0, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

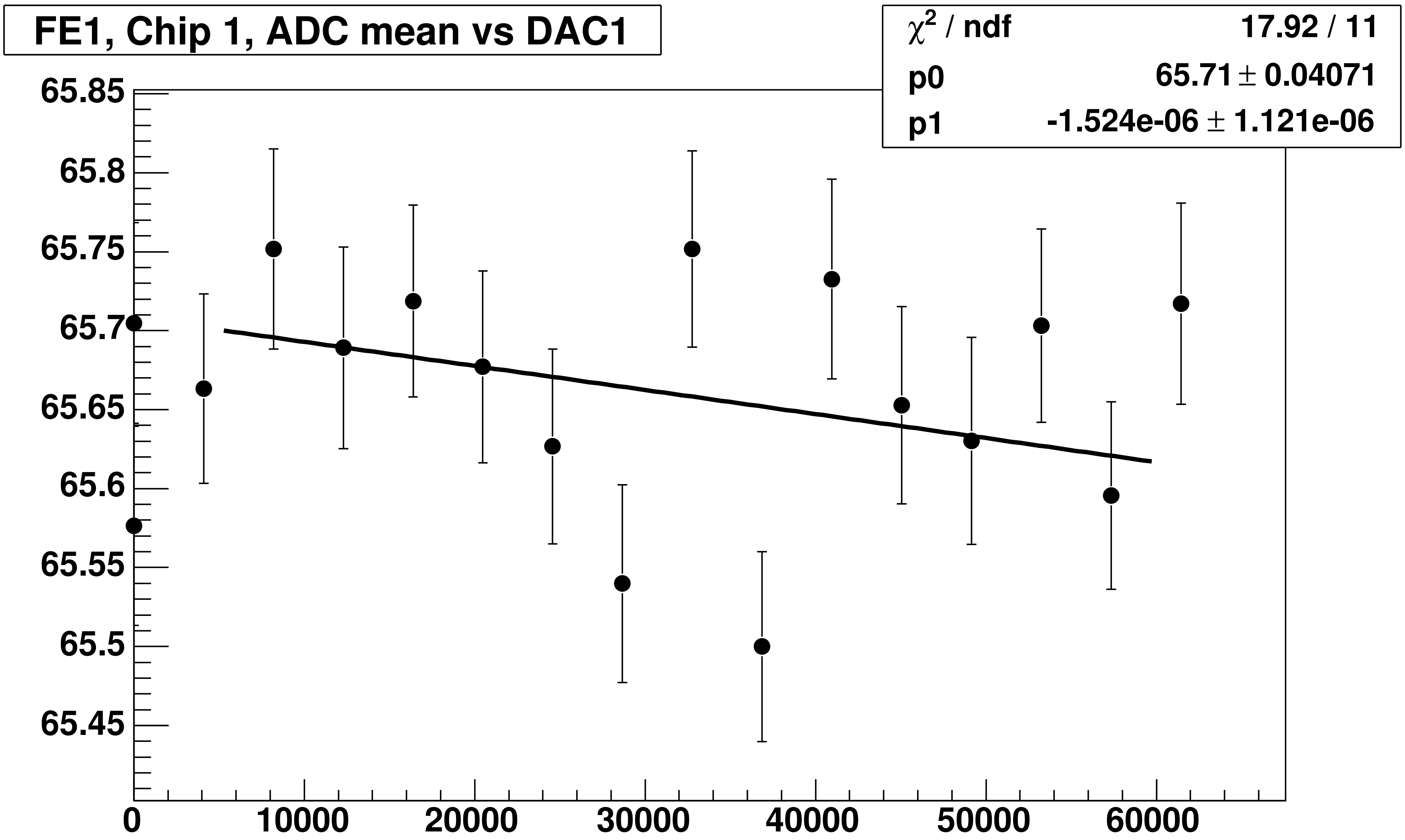


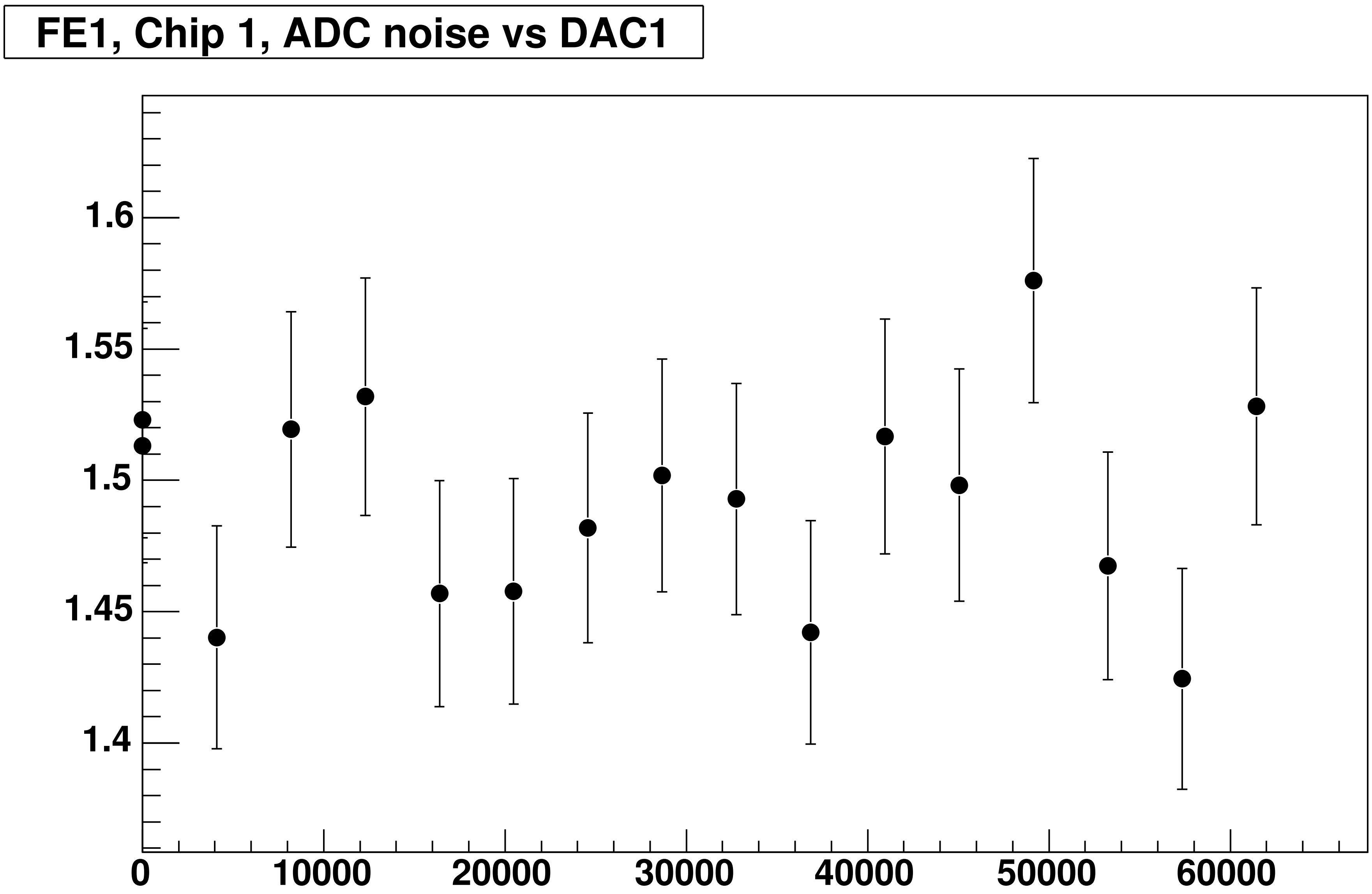
FE1, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1991 / 11
p0 69.02 ± 0.04277
p1 0.4501 ± 1.37e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

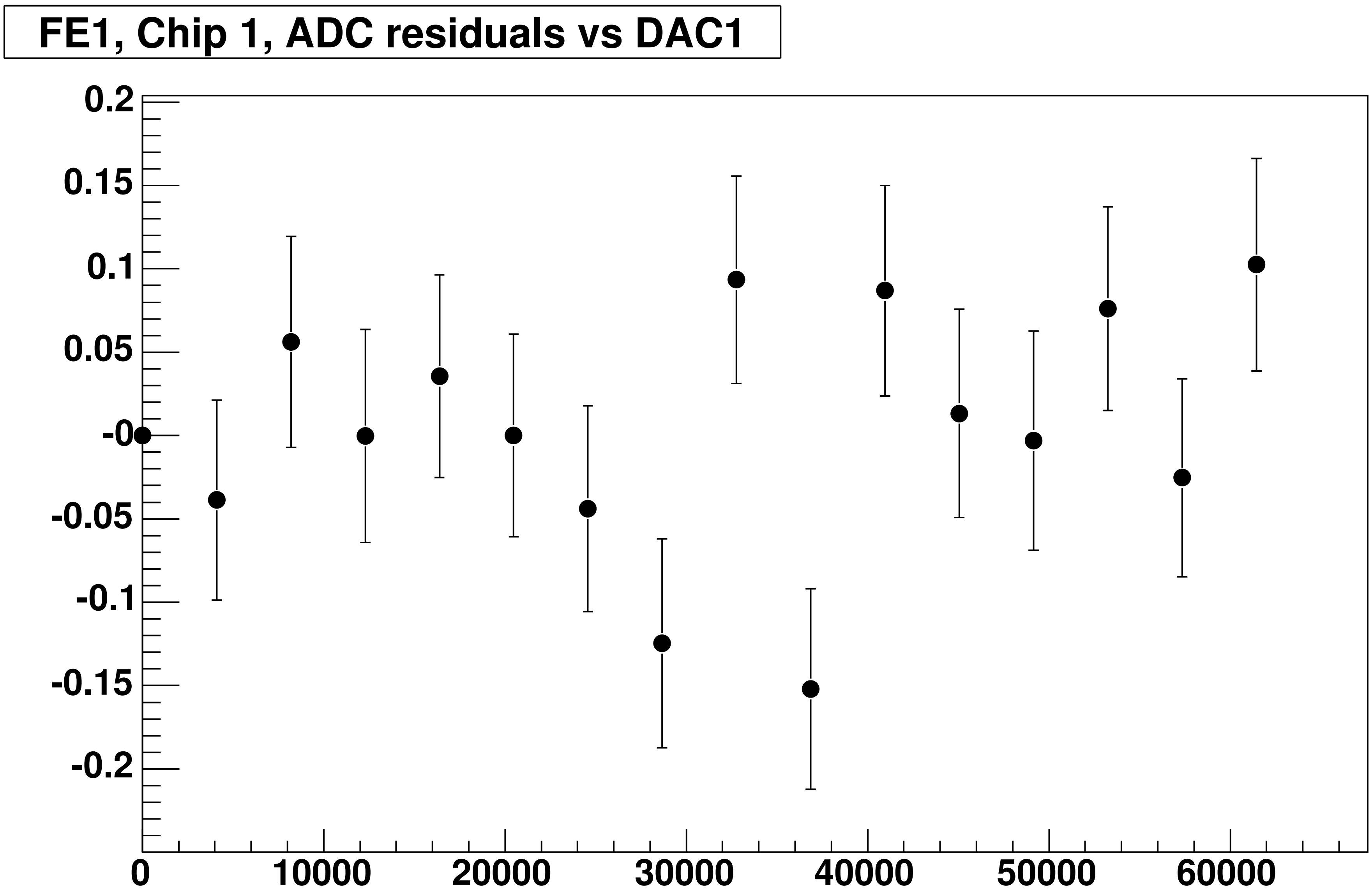

FE1, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

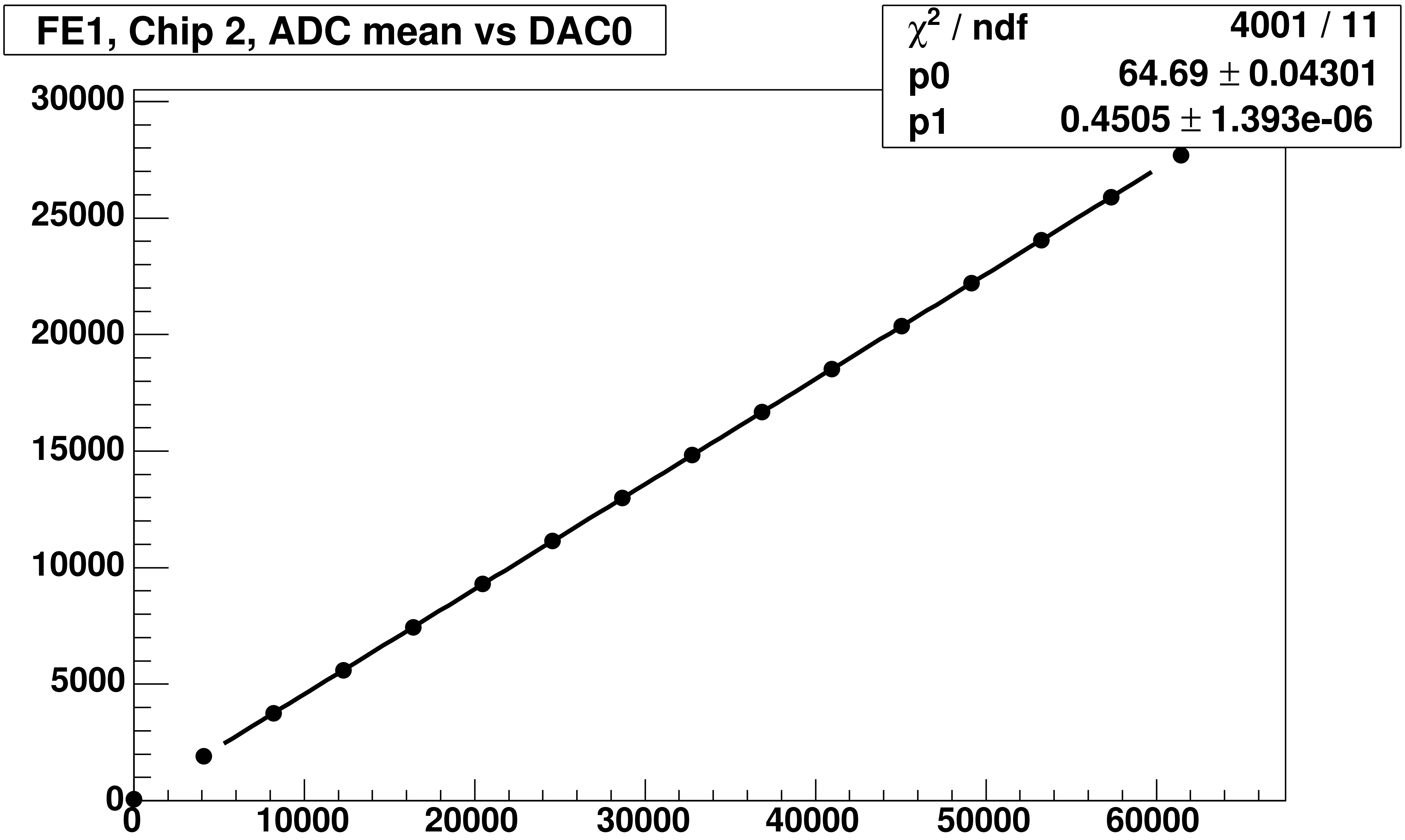


FE1, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

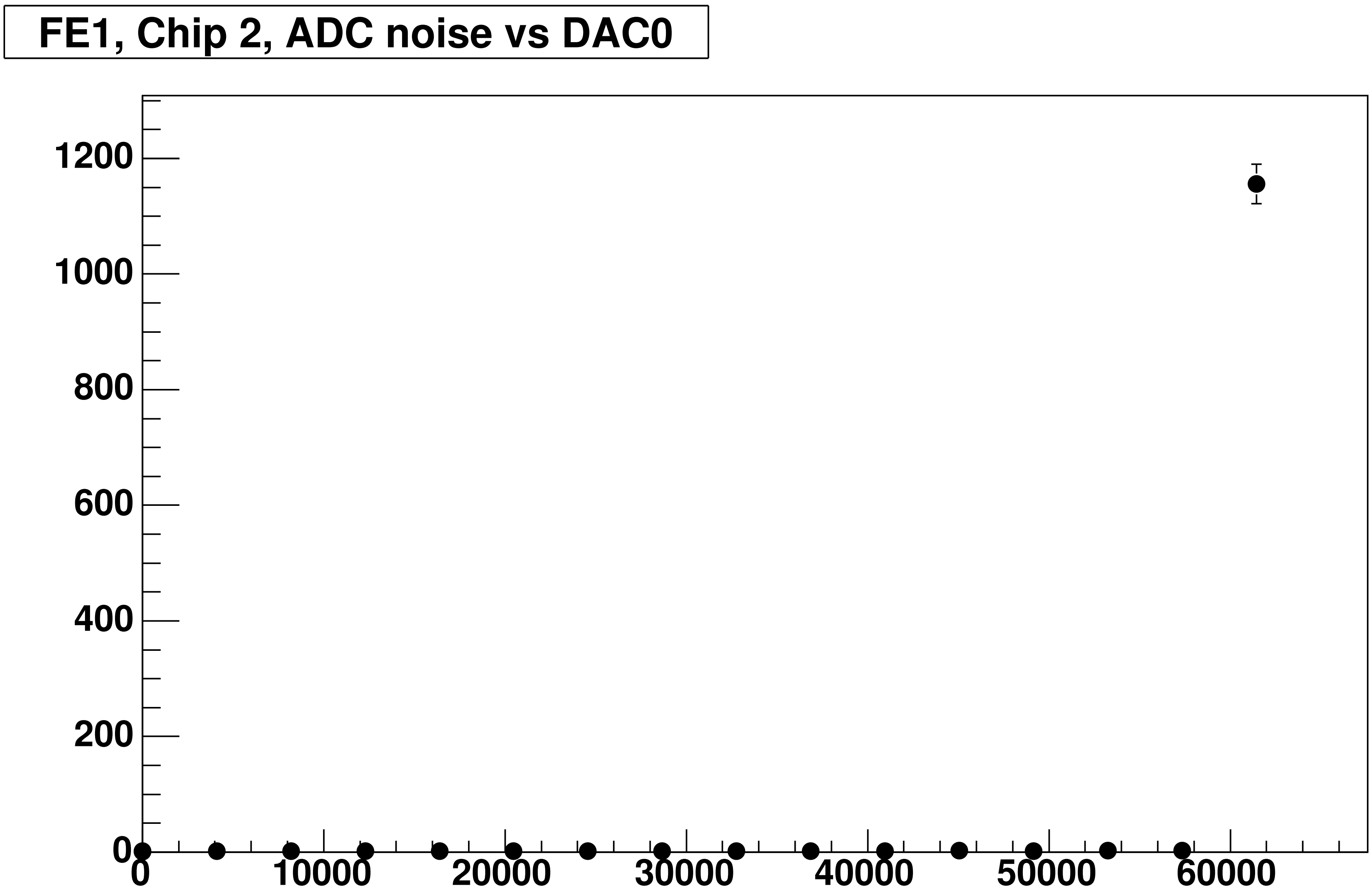

FE1, Chip 1, ADC mean vs DAC1
χ^2 / ndf 17.92 / 11
p0 65.71 ± 0.04071
p1 -1.524e-06 ± 1.121e-06
65.85
65.8
65.75
65.7
65.65
65.6
65.55
65.5
65.45
0
10000
20000
30000
40000
50000
60000

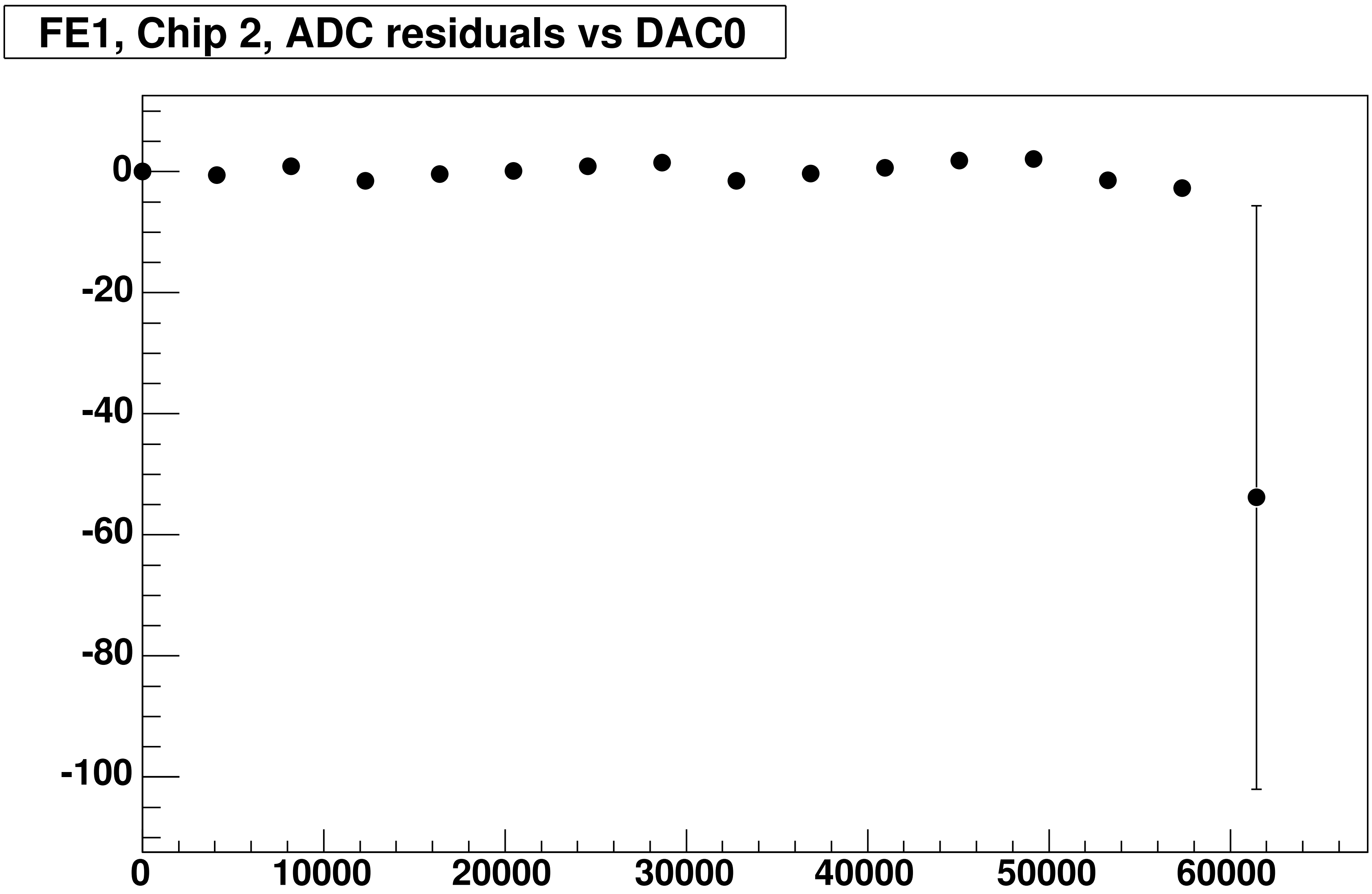

FE1, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

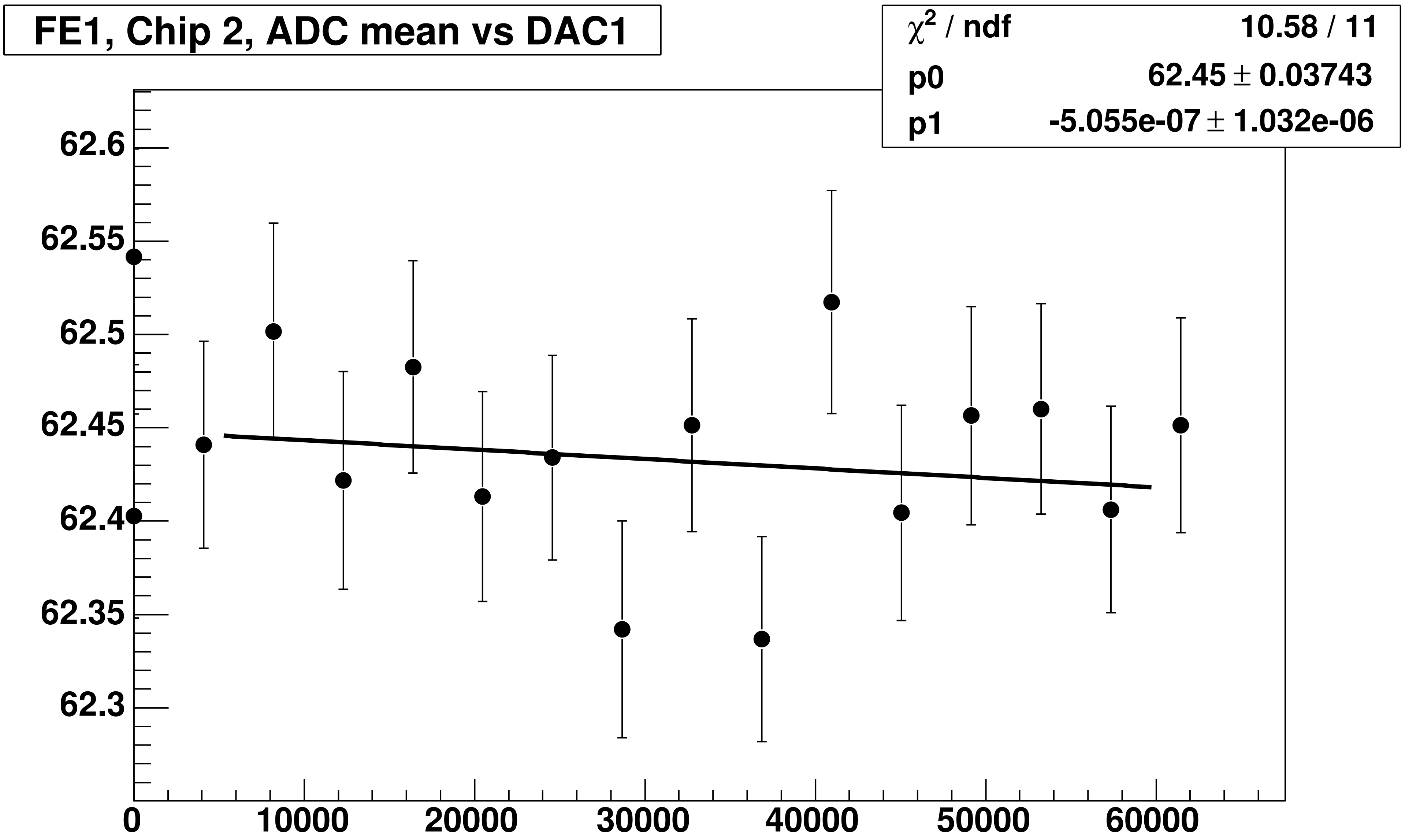

FE1, Chip 1, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



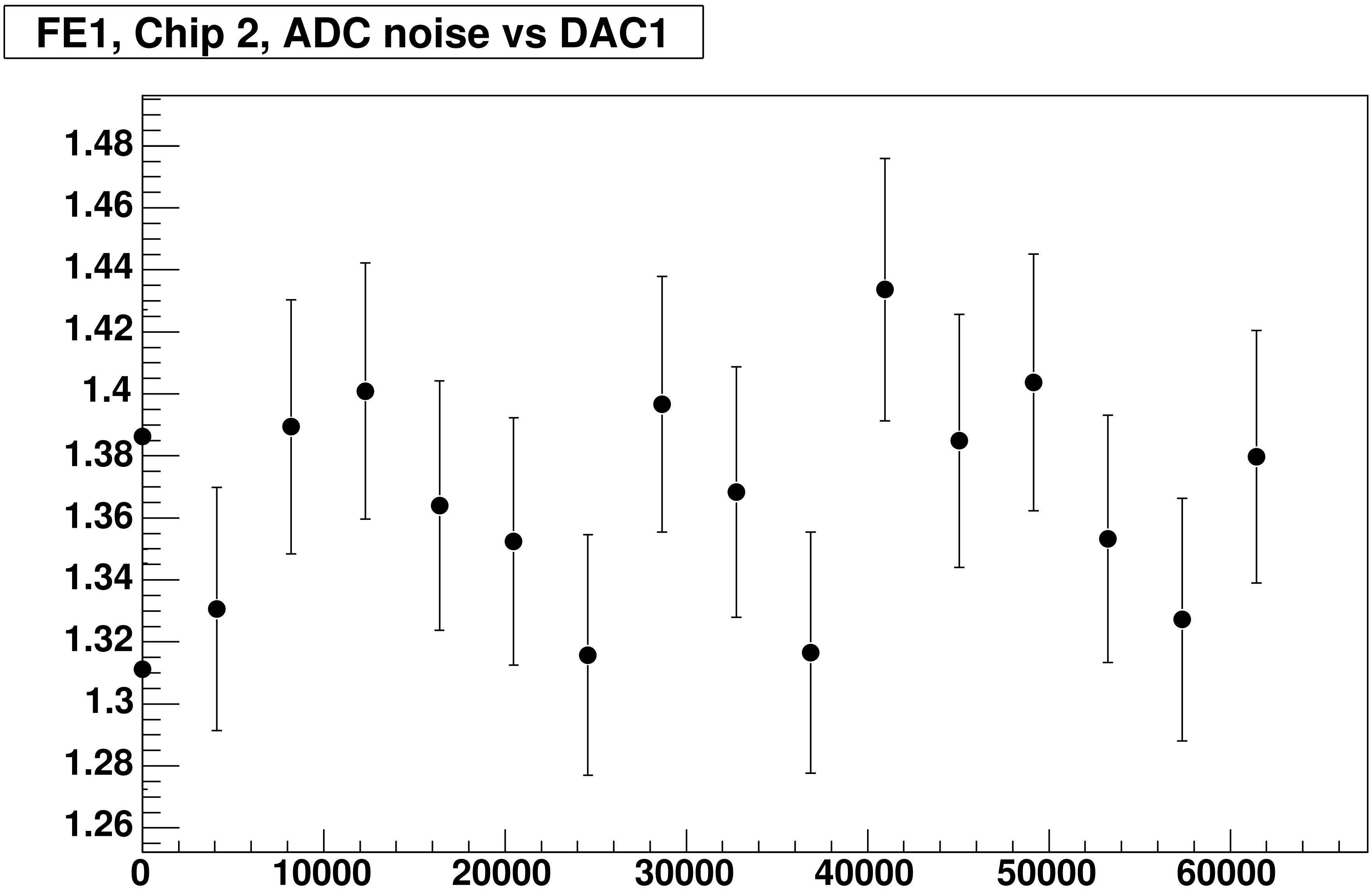
FE1, Chip 2, ADC mean vs DAC0
χ2 / ndf 4001 / 11
p0 64.69 ± 0.04301
p1 0.4505 ± 1.393e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

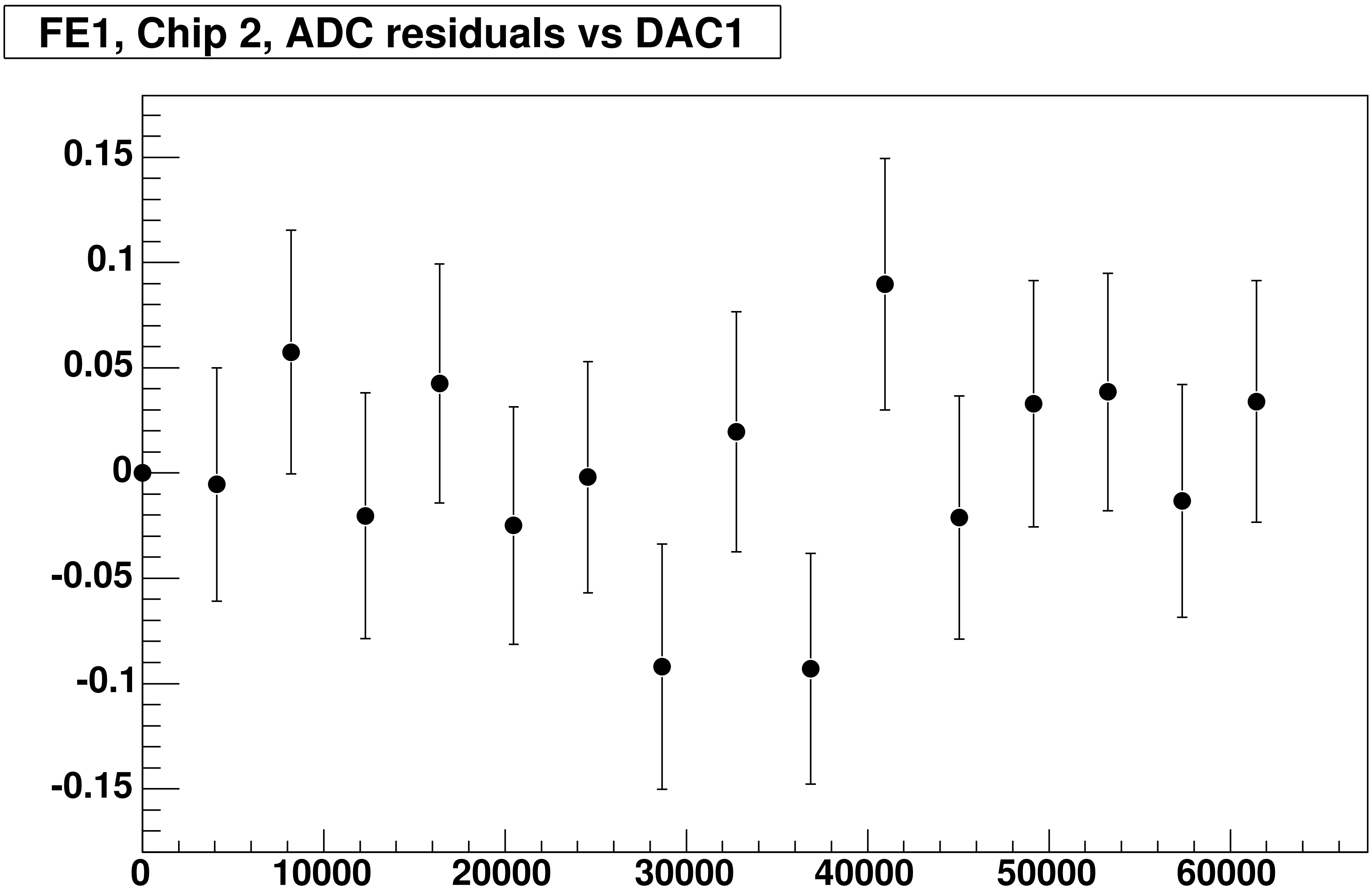

FE1, Chip 2, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000


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

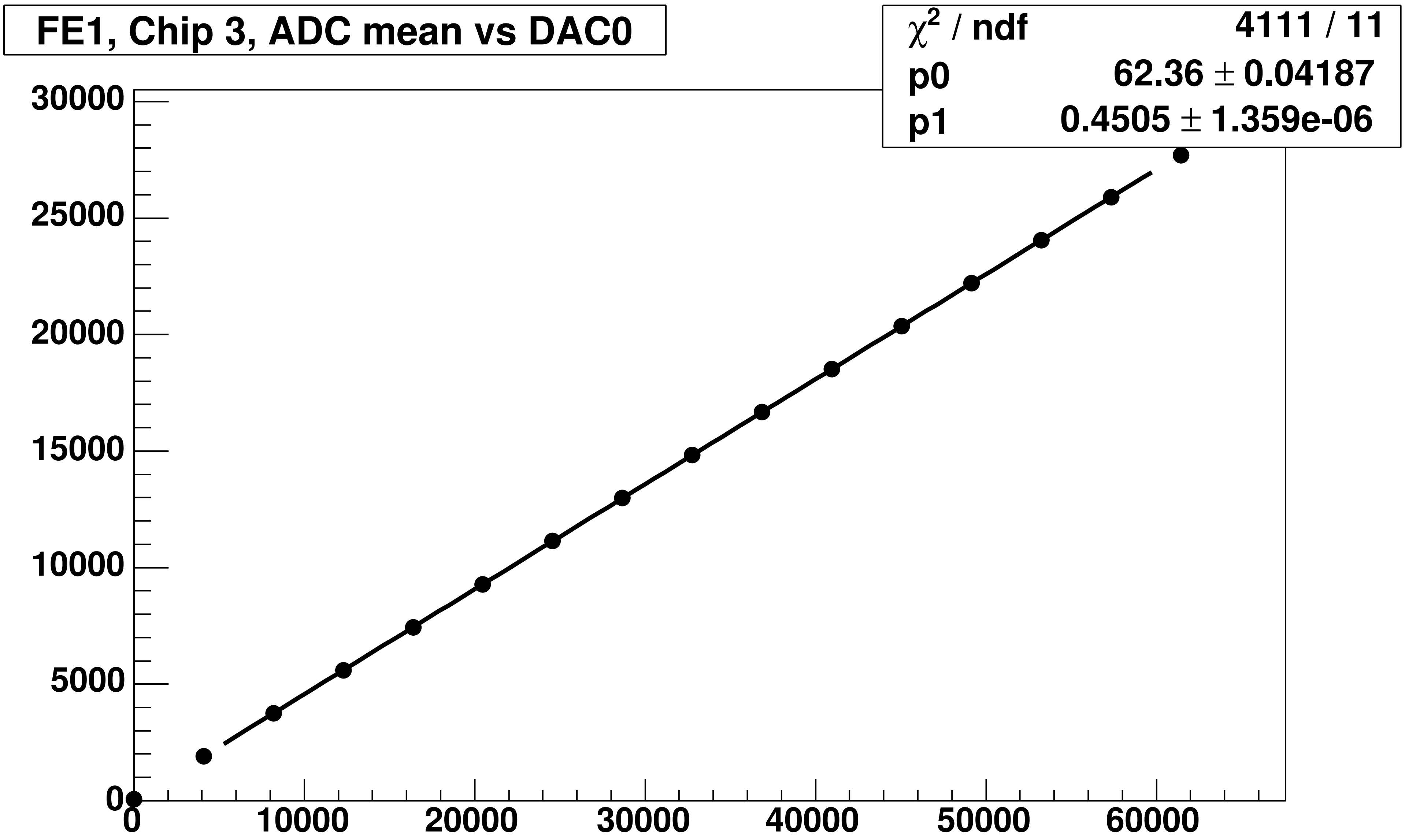


FE1, Chip 2, ADC mean vs DAC1
χ2 / ndf 10.58 / 11
p0 62.45 ± 0.03743
p1 -5.055e-07 ± 1.032e-06
62.6
62.55
62.5
62.45
62.4
62.35
62.3
0
10000
20000
30000
40000
50000
60000

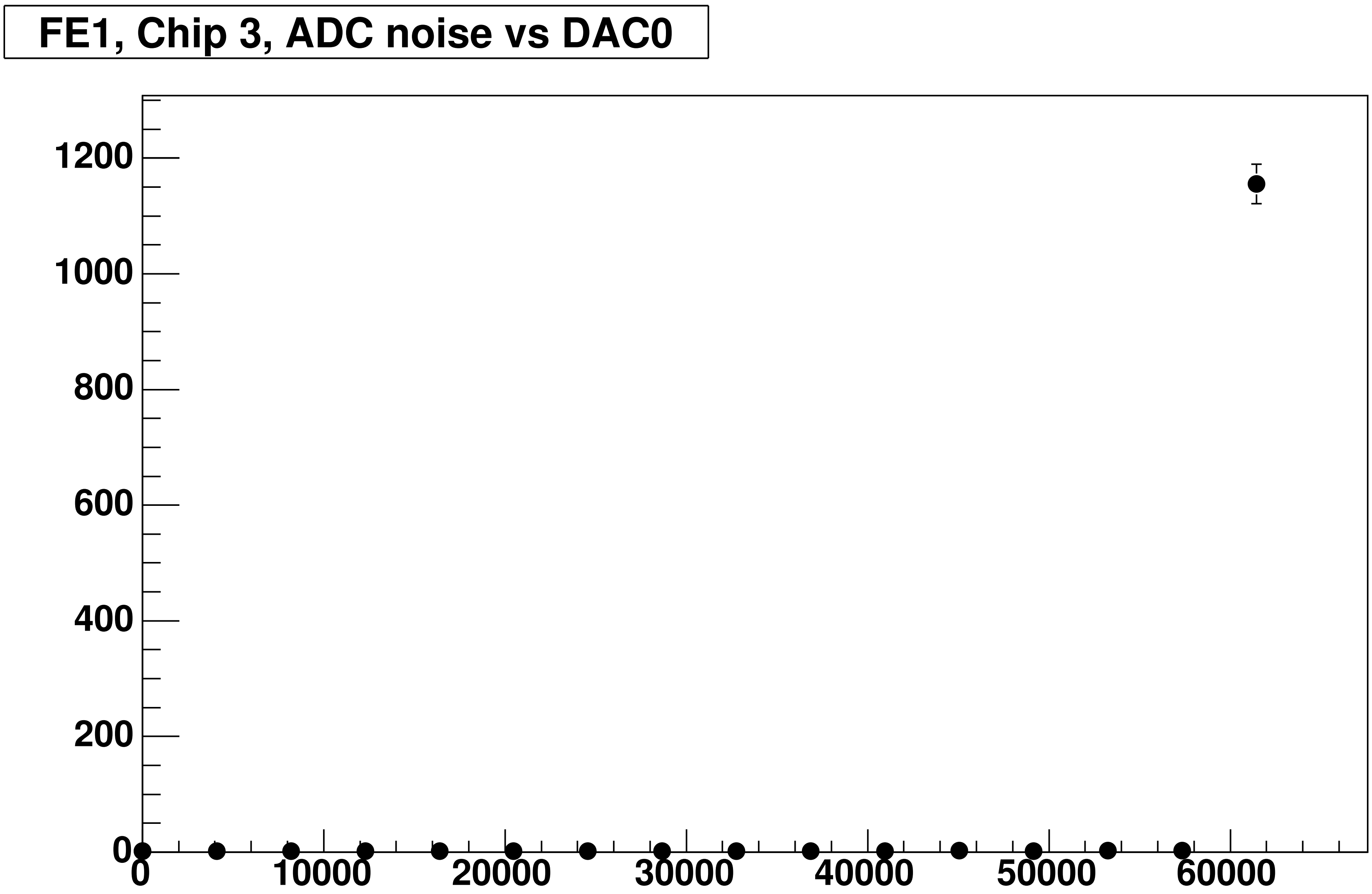

FE1, Chip 2, ADC noise vs DAC1
1.48
1.46
1.44
1.42
1.4
1.38
1.36
1.34
1.32
1.3
1.28
1.26
0
10000
20000
30000
40000
50000
60000

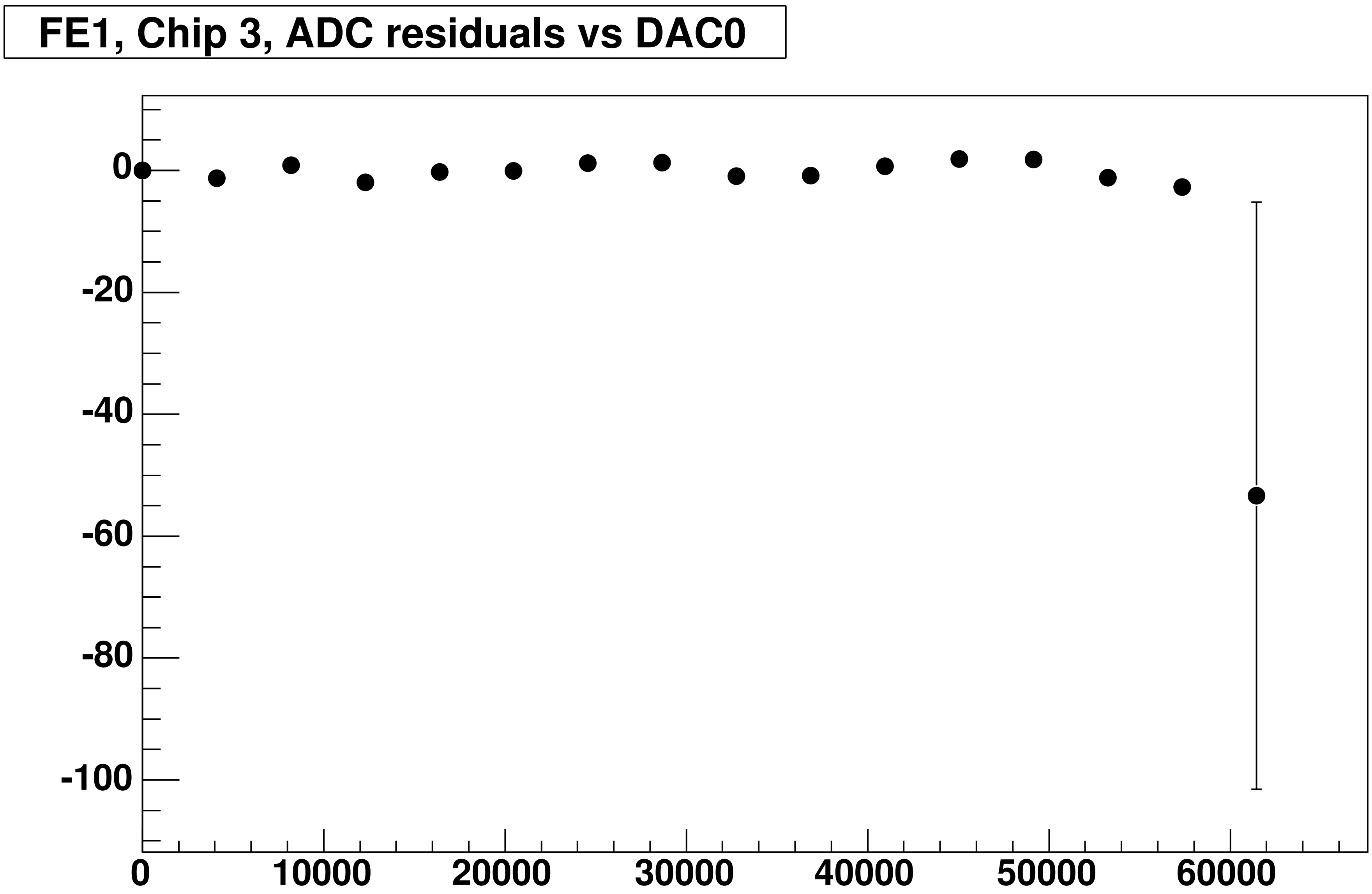


FE1, Chip 2, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

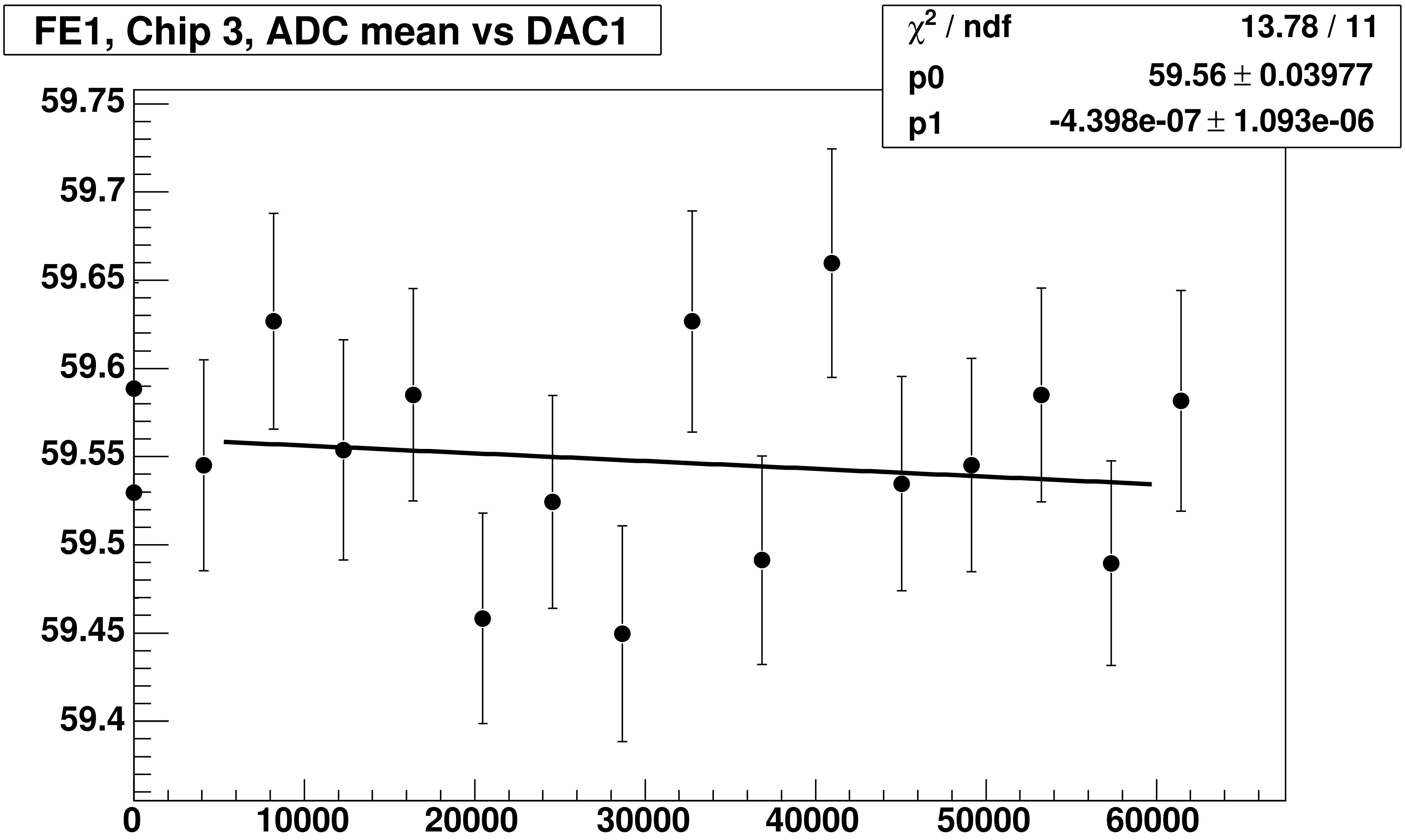


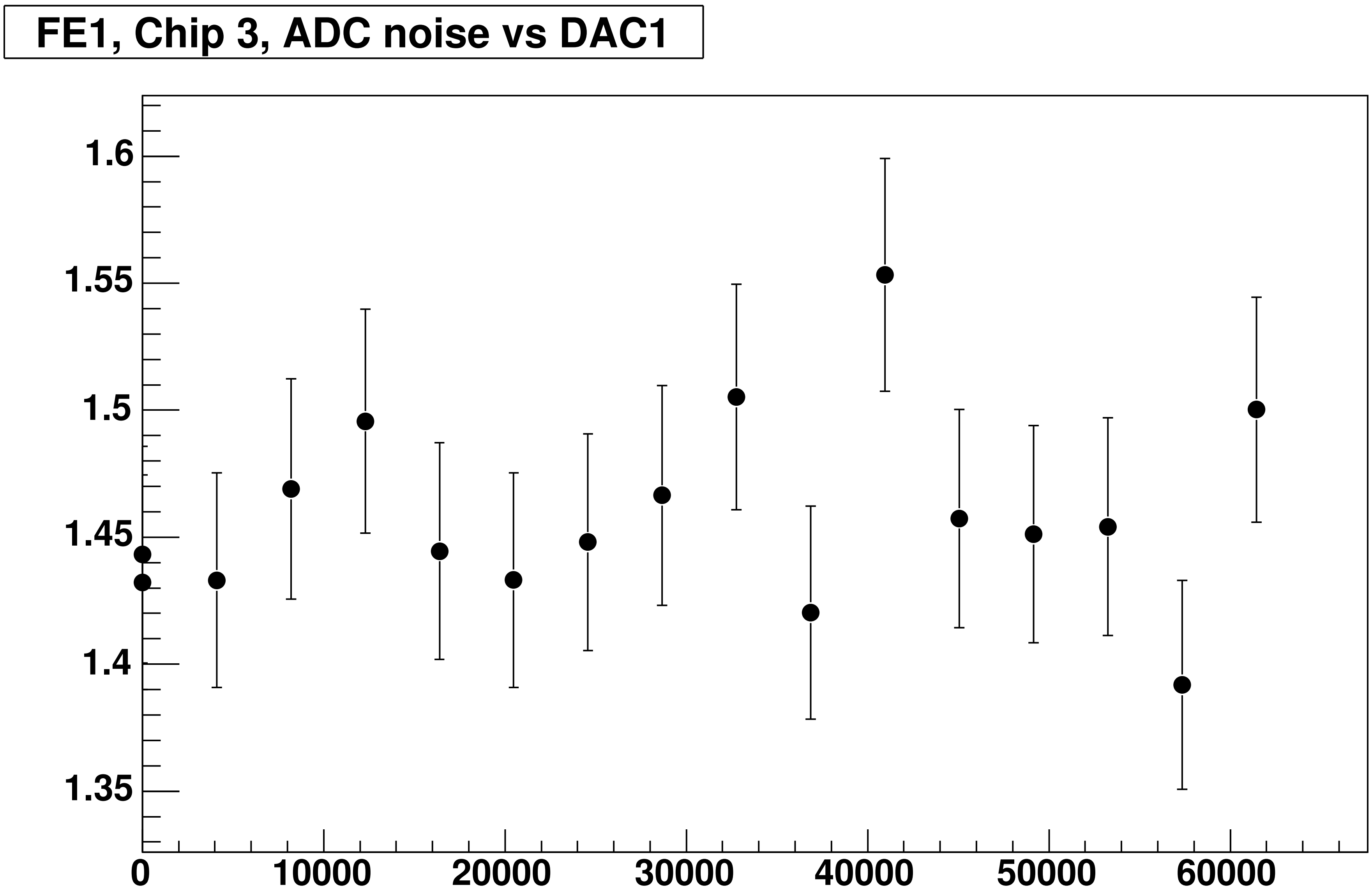
FE1, Chip 3, ADC mean vs DAC0
χ^2 / ndf 4111 / 11
p0 62.36 ± 0.04187
p1 0.4505 ± 1.359e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

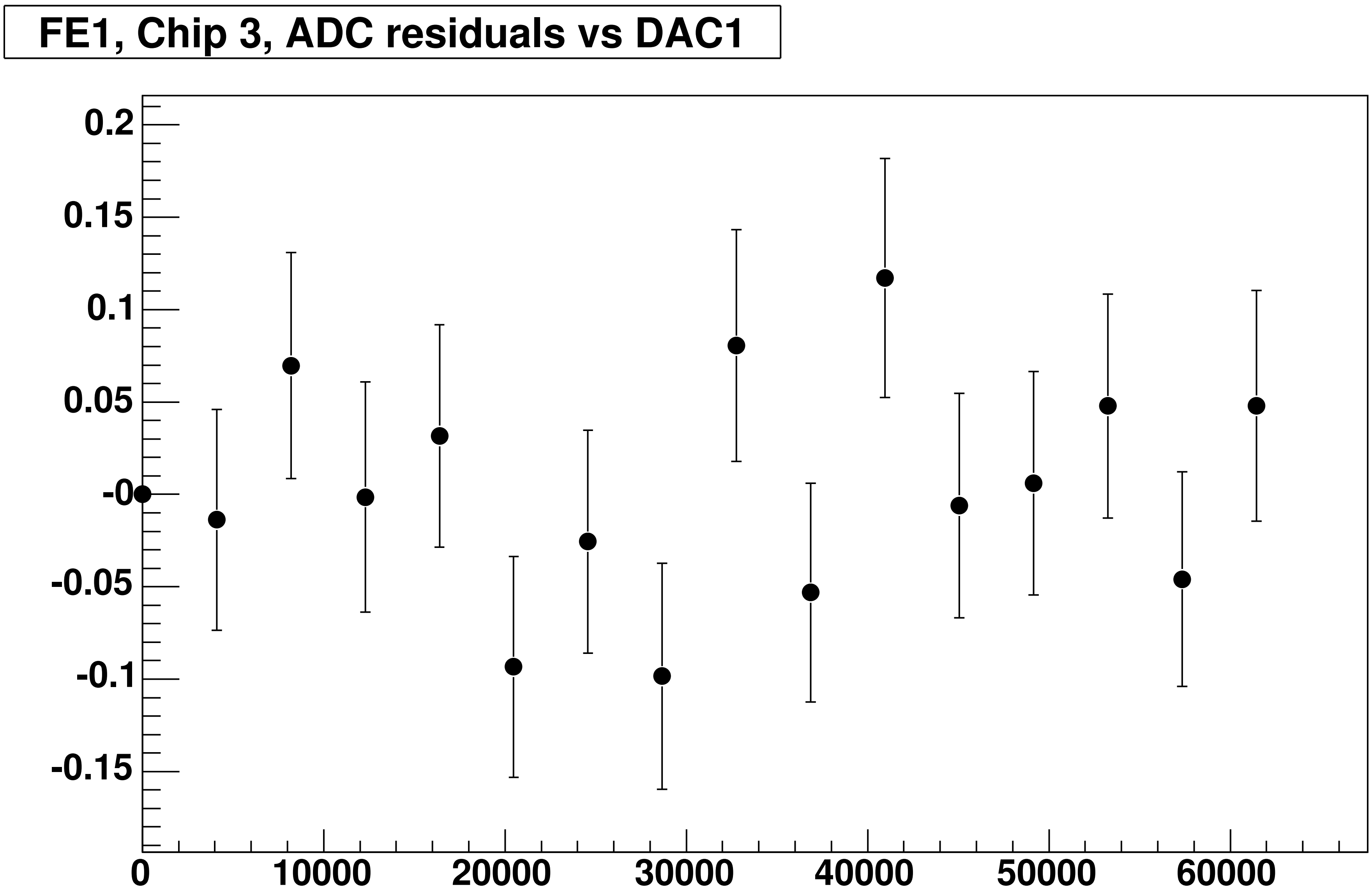

FE1, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



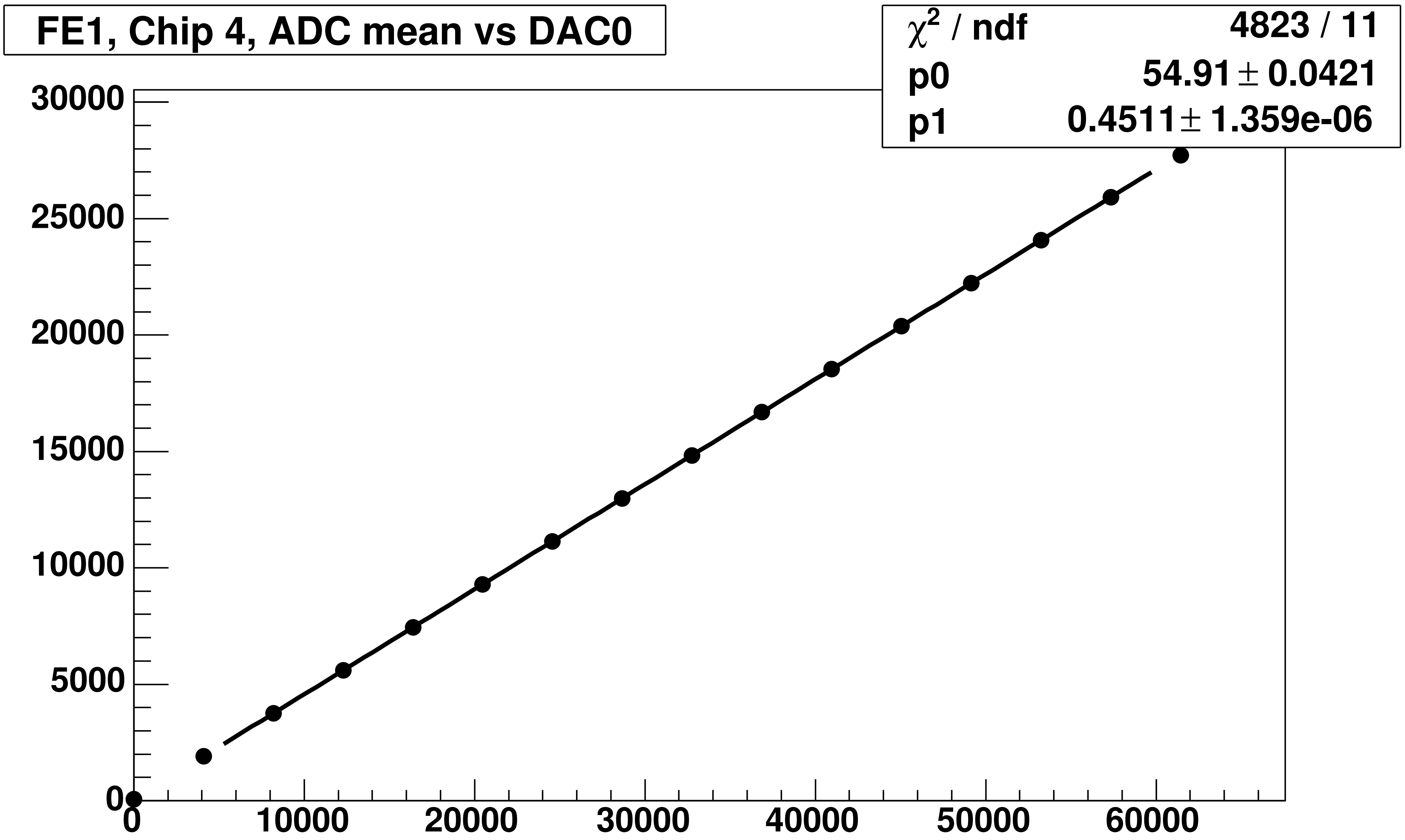
FE1, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE1, Chip 3, ADC mean vs DAC1
χ^2 / ndf 13.78 / 11
p0 59.56 ± 0.03977
p1 -4.398e-07 ± 1.093e-06
59.75
59.7
59.65
59.6
59.55
59.5
59.45
59.4
0
10000
20000
30000
40000
50000
60000

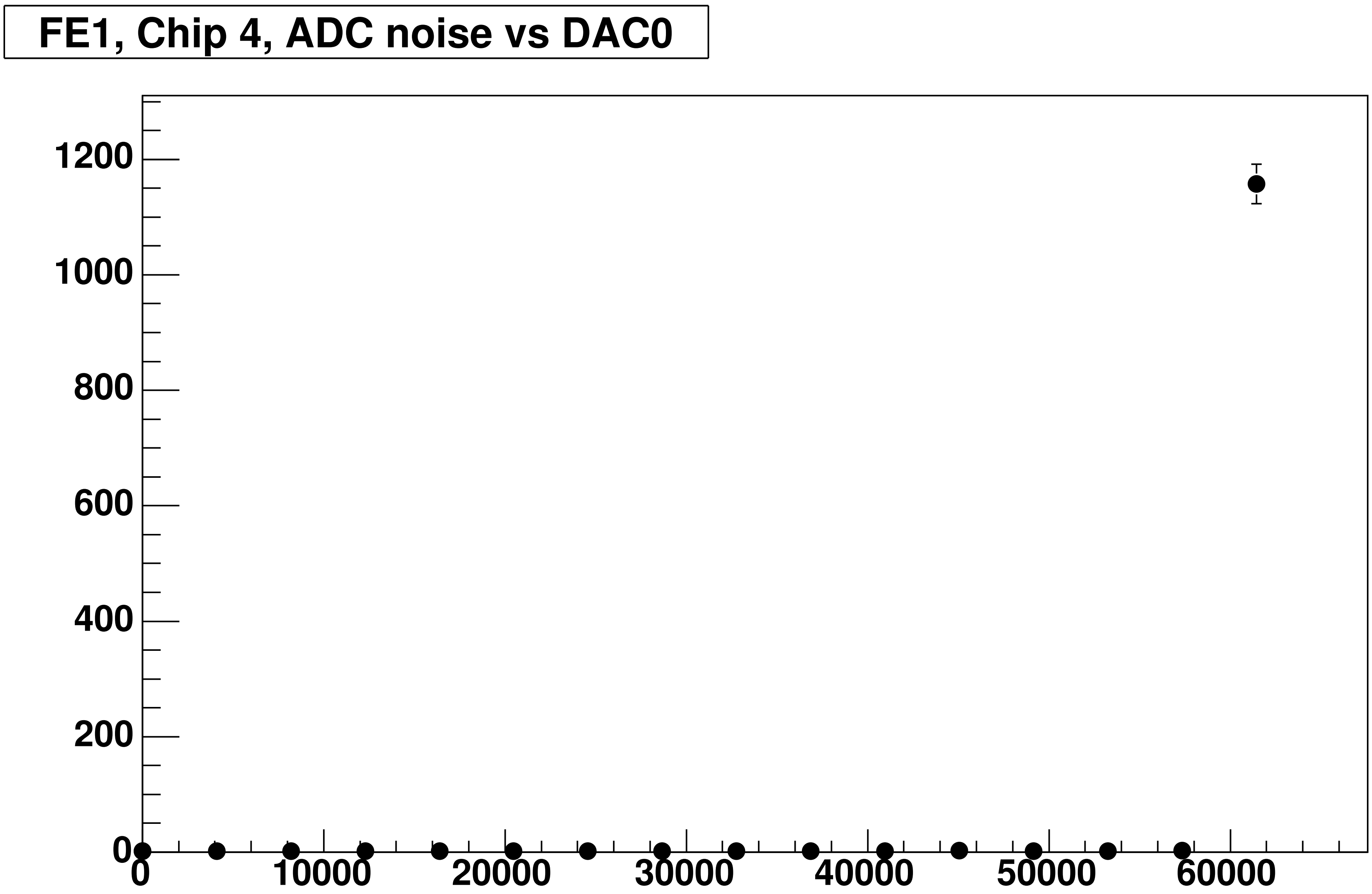

FE1, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



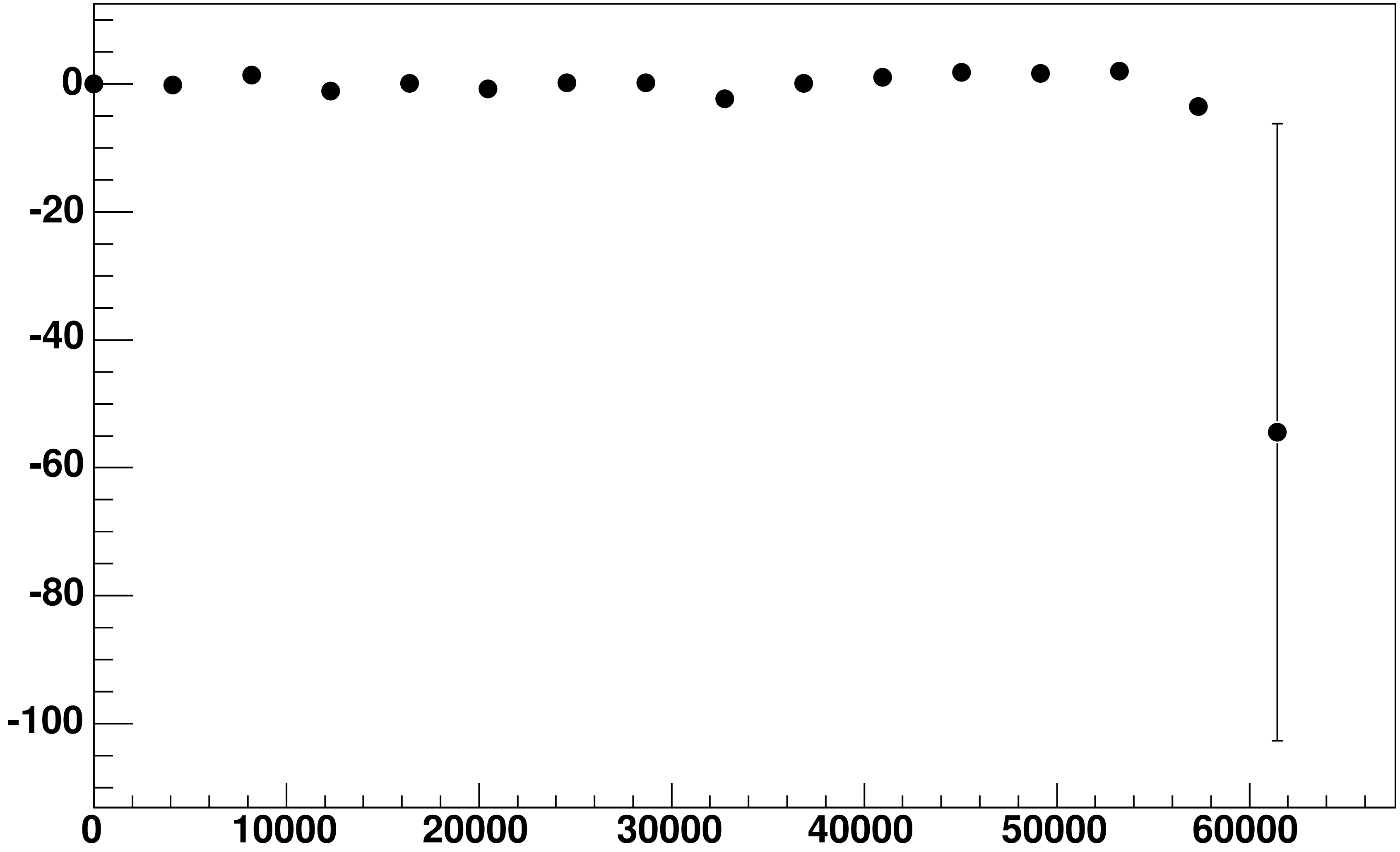
FE1, Chip 3, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

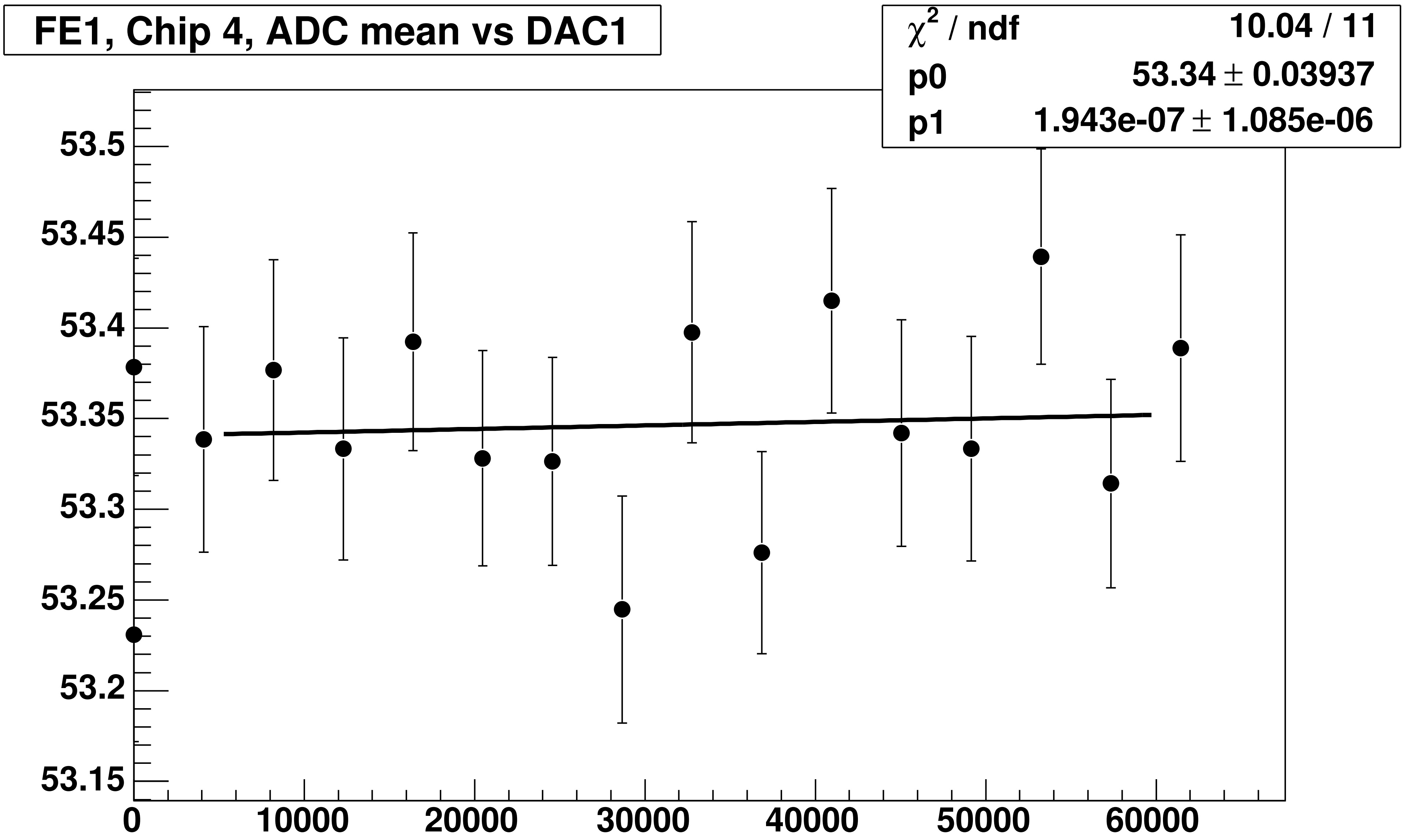


FE1, Chip 4, ADC mean vs DAC0
χ^2 / ndf 4823 / 11
p0 54.91 ± 0.0421
p1 0.4511 ± 1.359e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

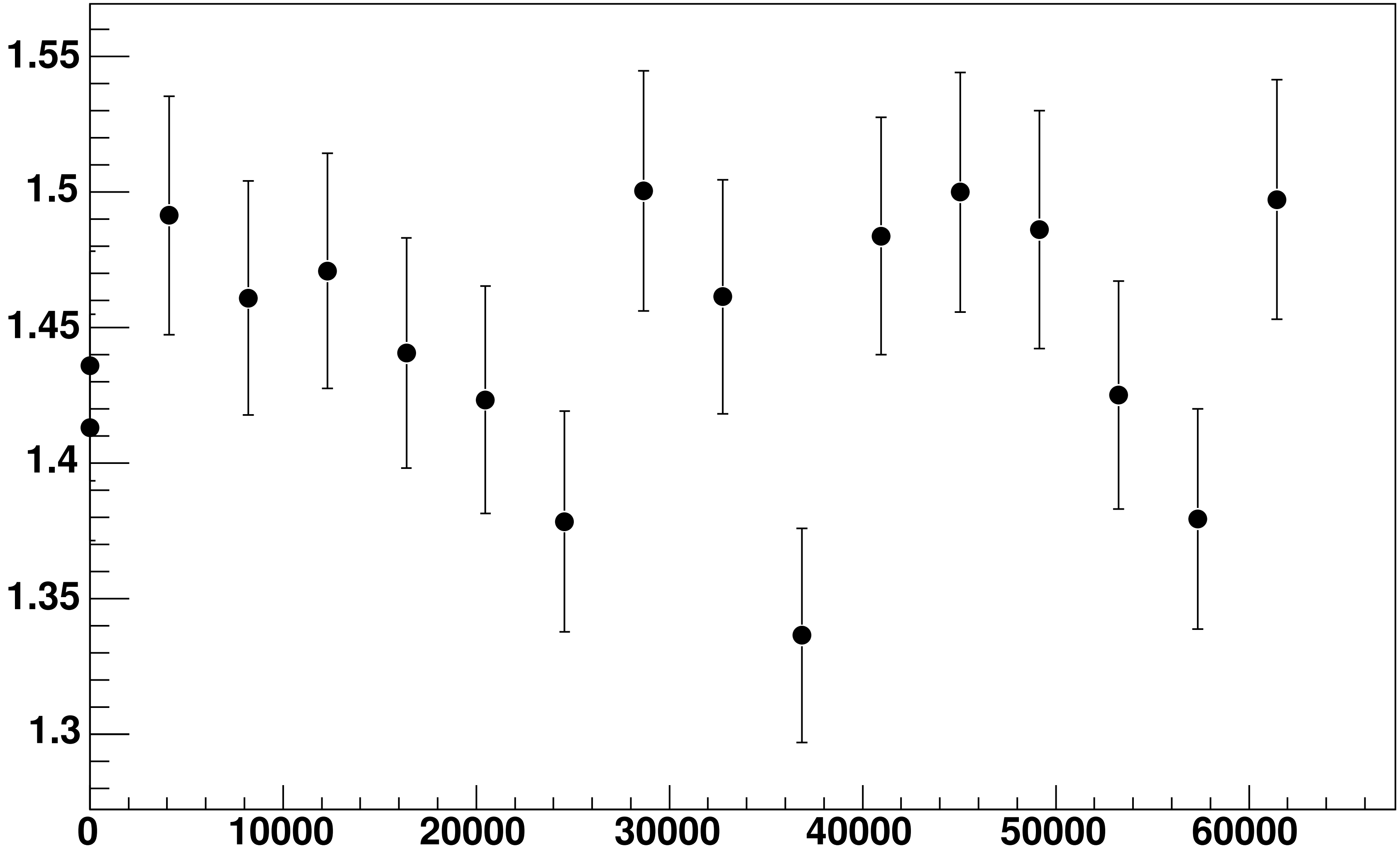
FE1, Chip 4, ADC residuals vs DAC0

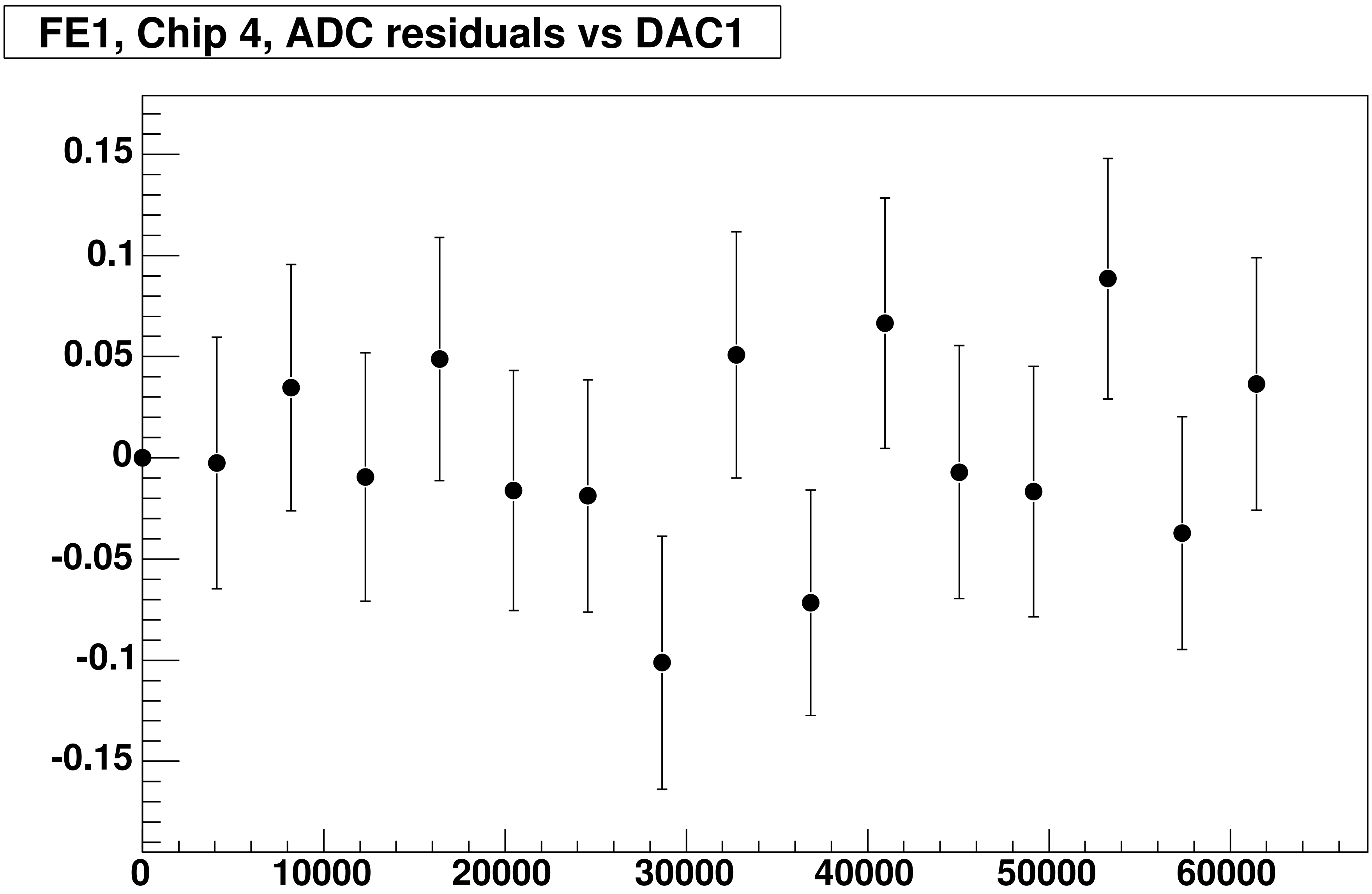


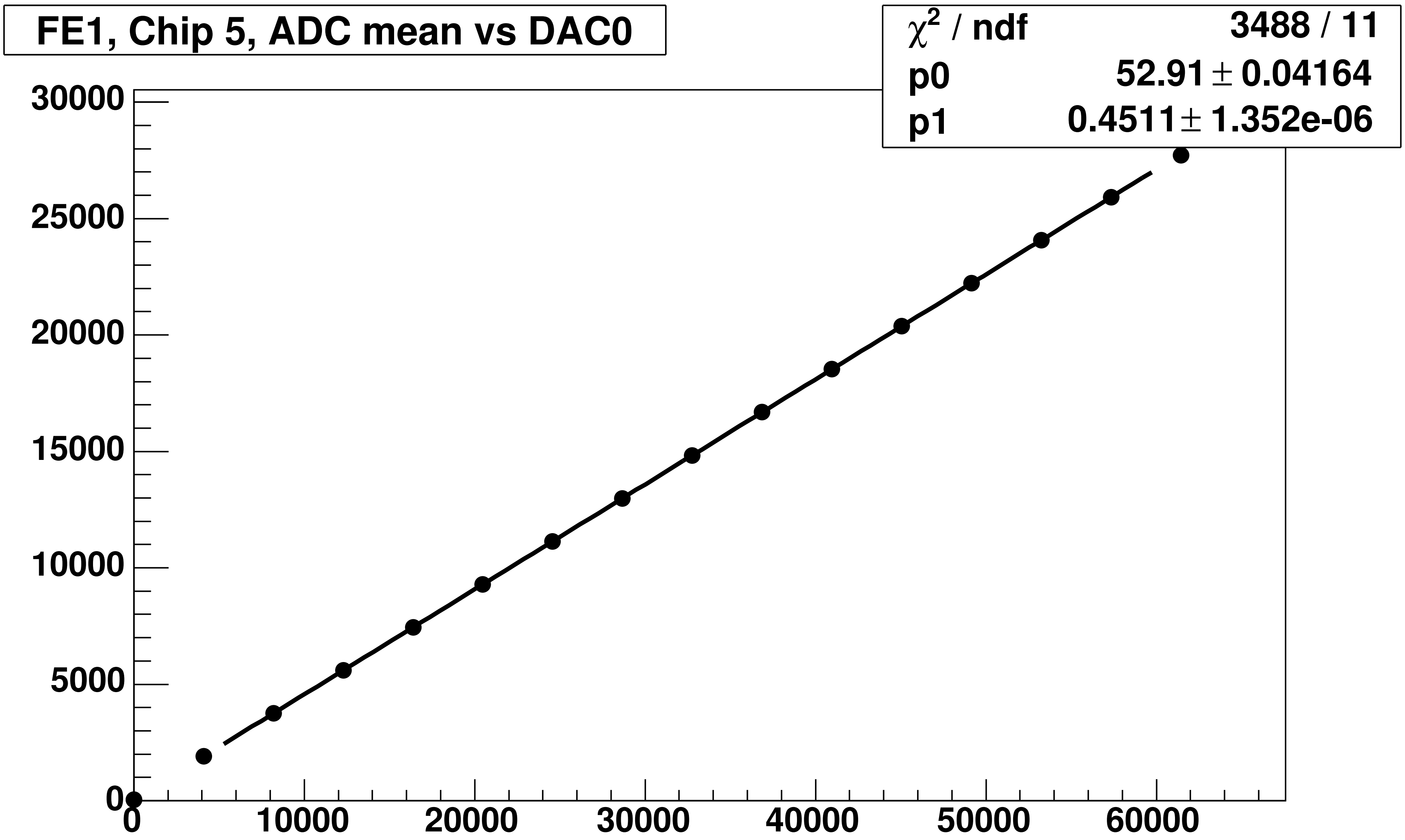


FE1, Chip 4, ADC mean vs DAC1
χ^2 / ndf 10.04 / 11
p0 53.34 ± 0.03937
p1 1.943e-07 ± 1.085e-06
53.5
53.45
53.4
53.35
53.3
53.25
53.2
53.15
0
10000
20000
30000
40000
50000
60000

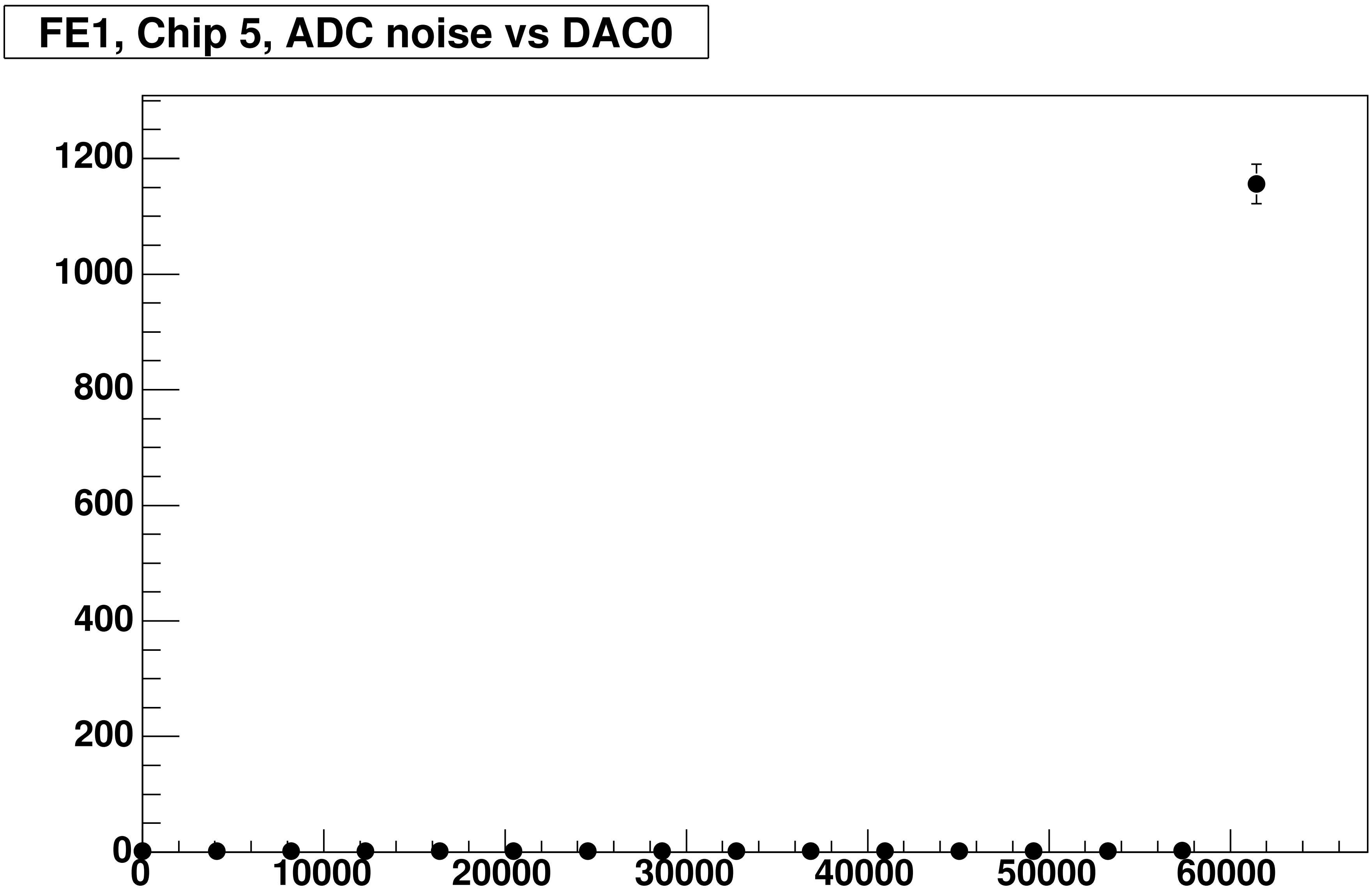
FE1, Chip 4, ADC noise vs DAC1

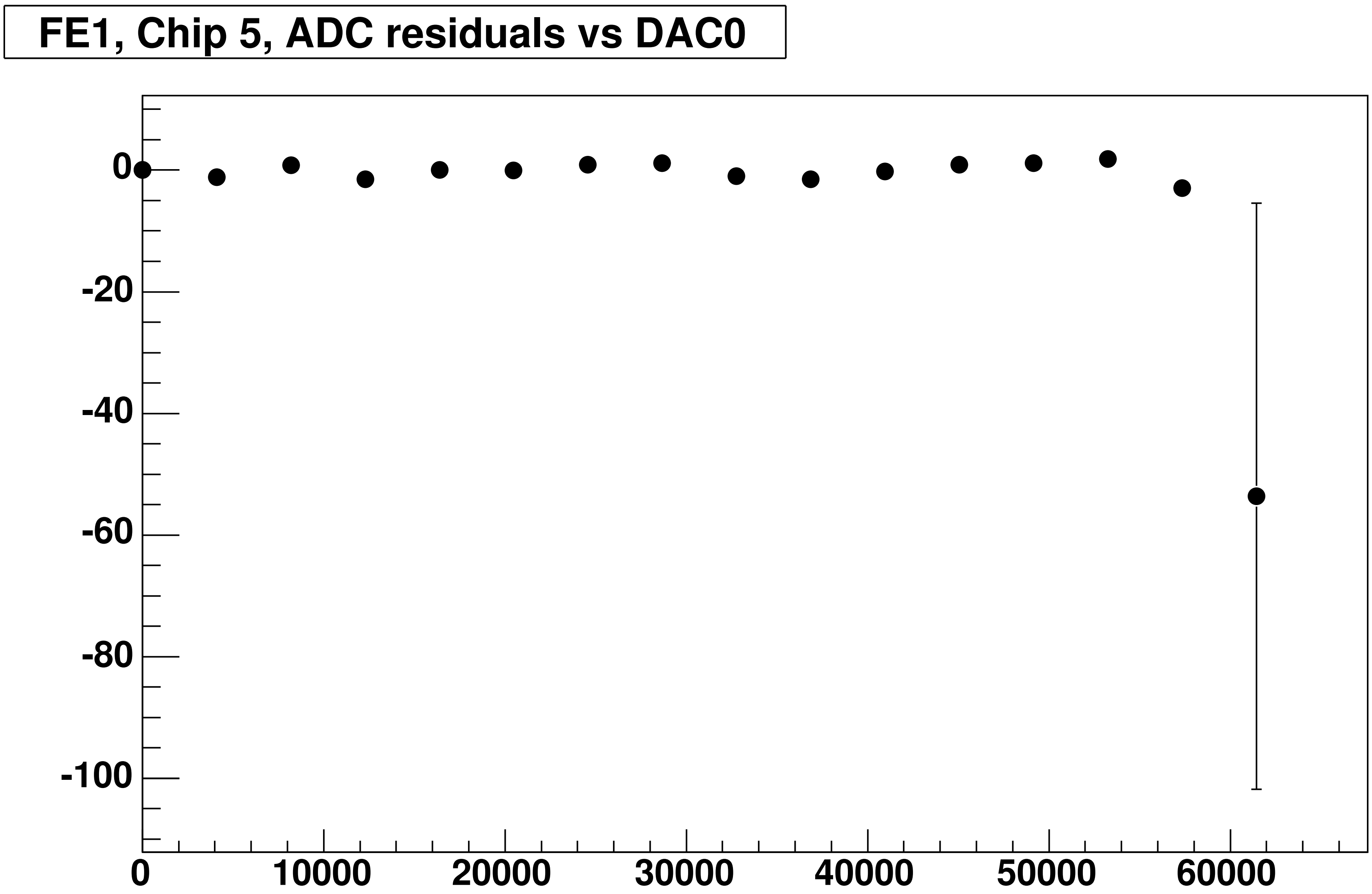



FE1, Chip 4, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

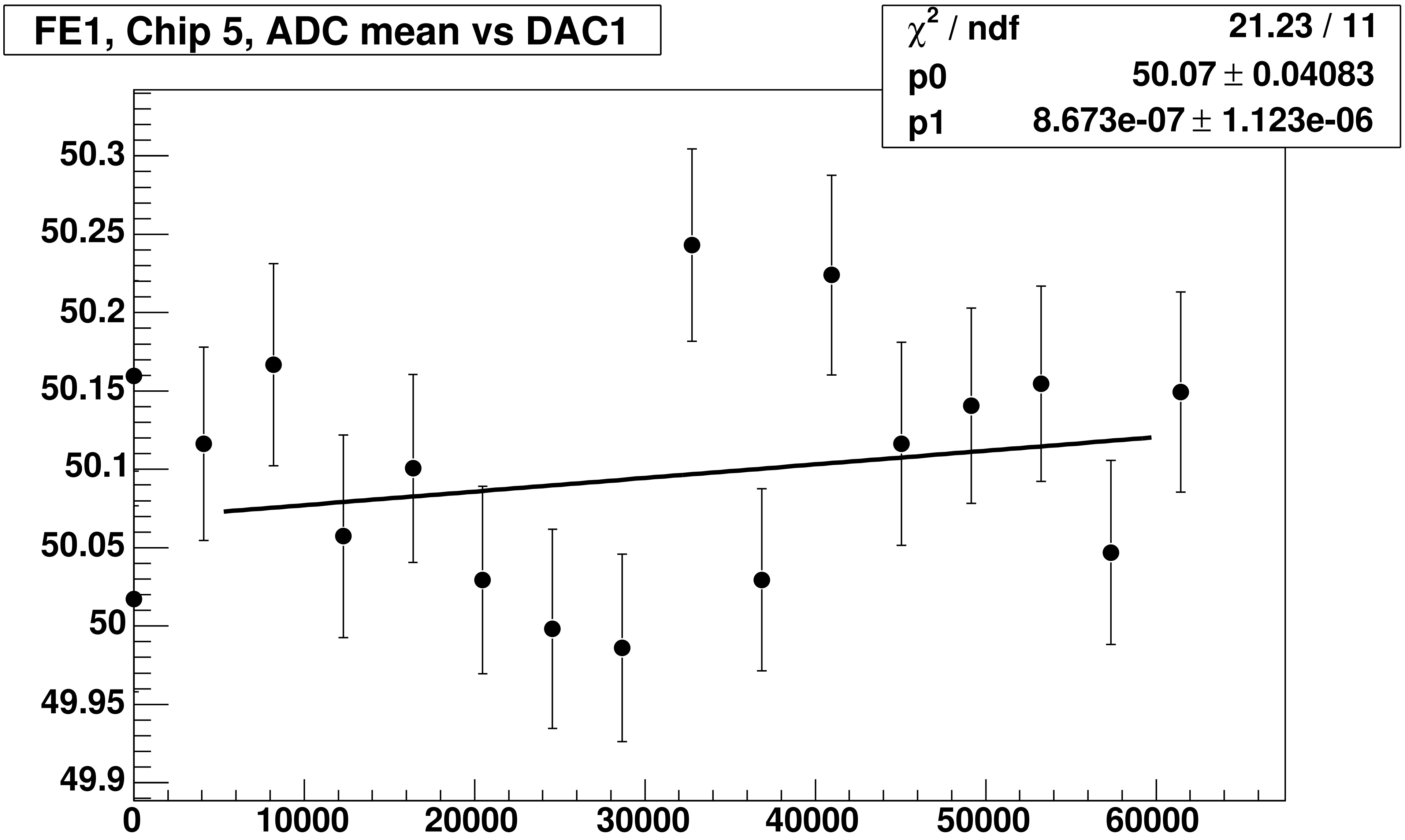


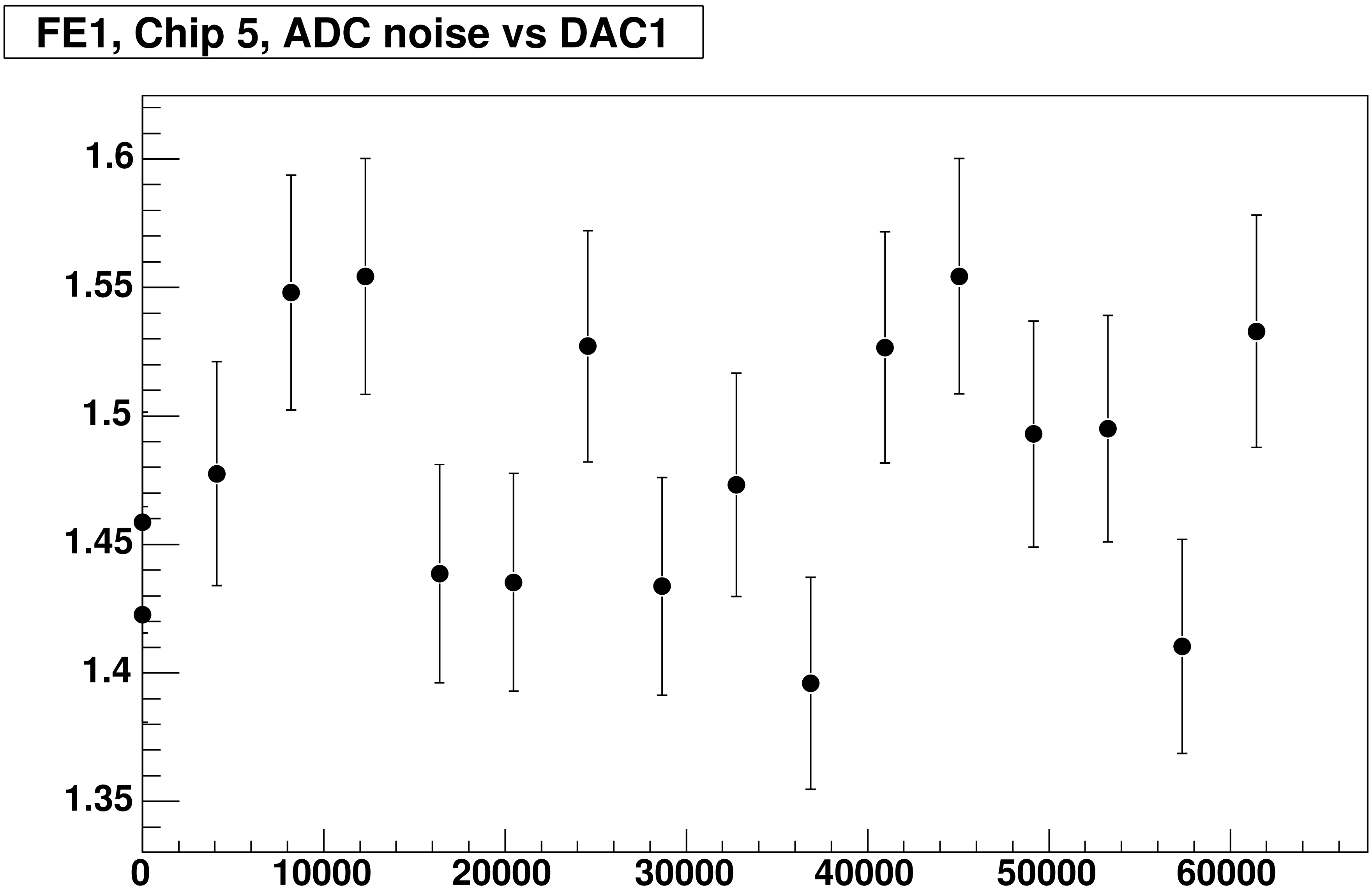
FE1, Chip 5, ADC mean vs DAC0
χ^2 / ndf 3488 / 11
p0 52.91 ± 0.04164
p1 0.4511 ± 1.352e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

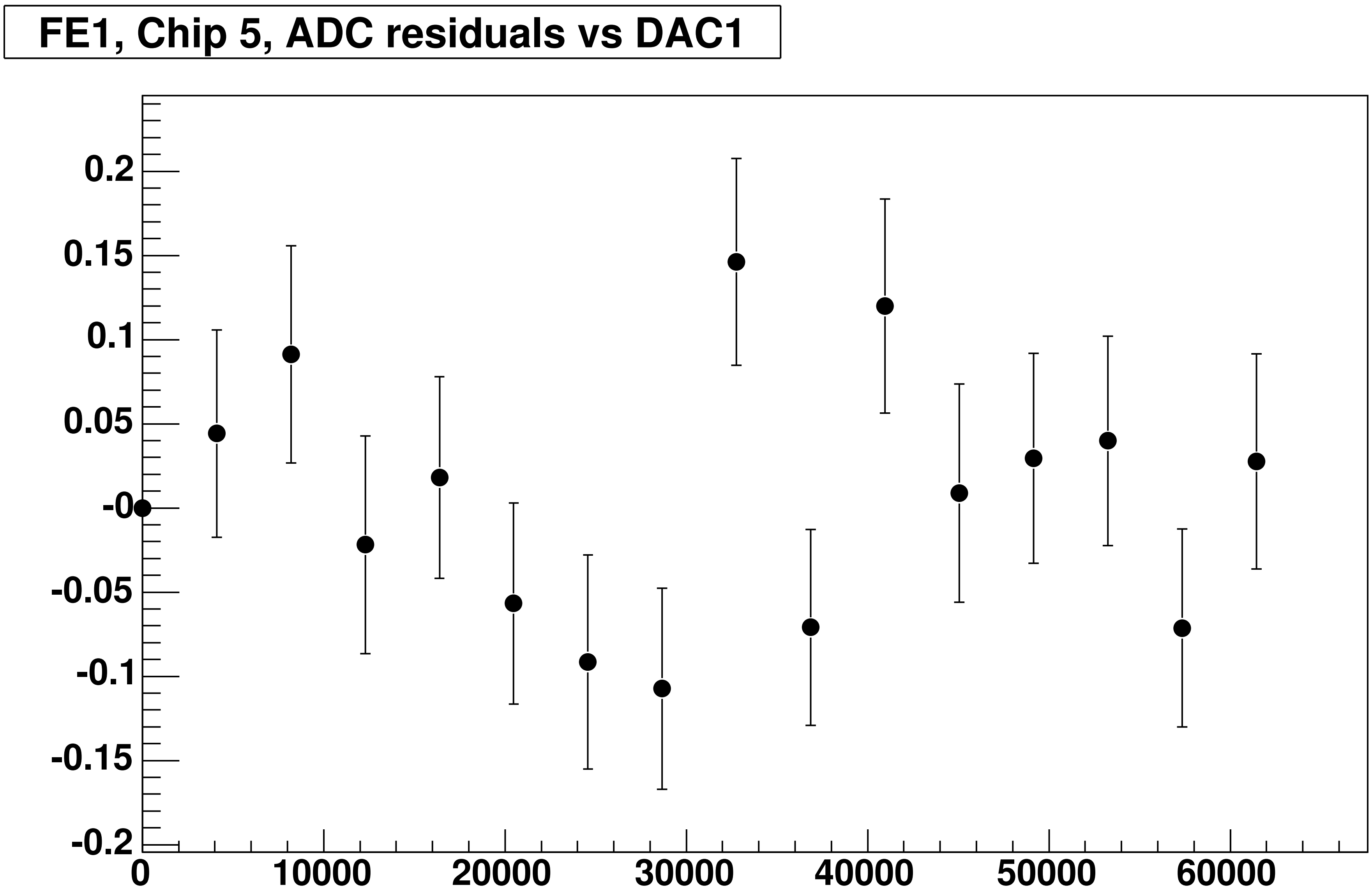

FE1, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

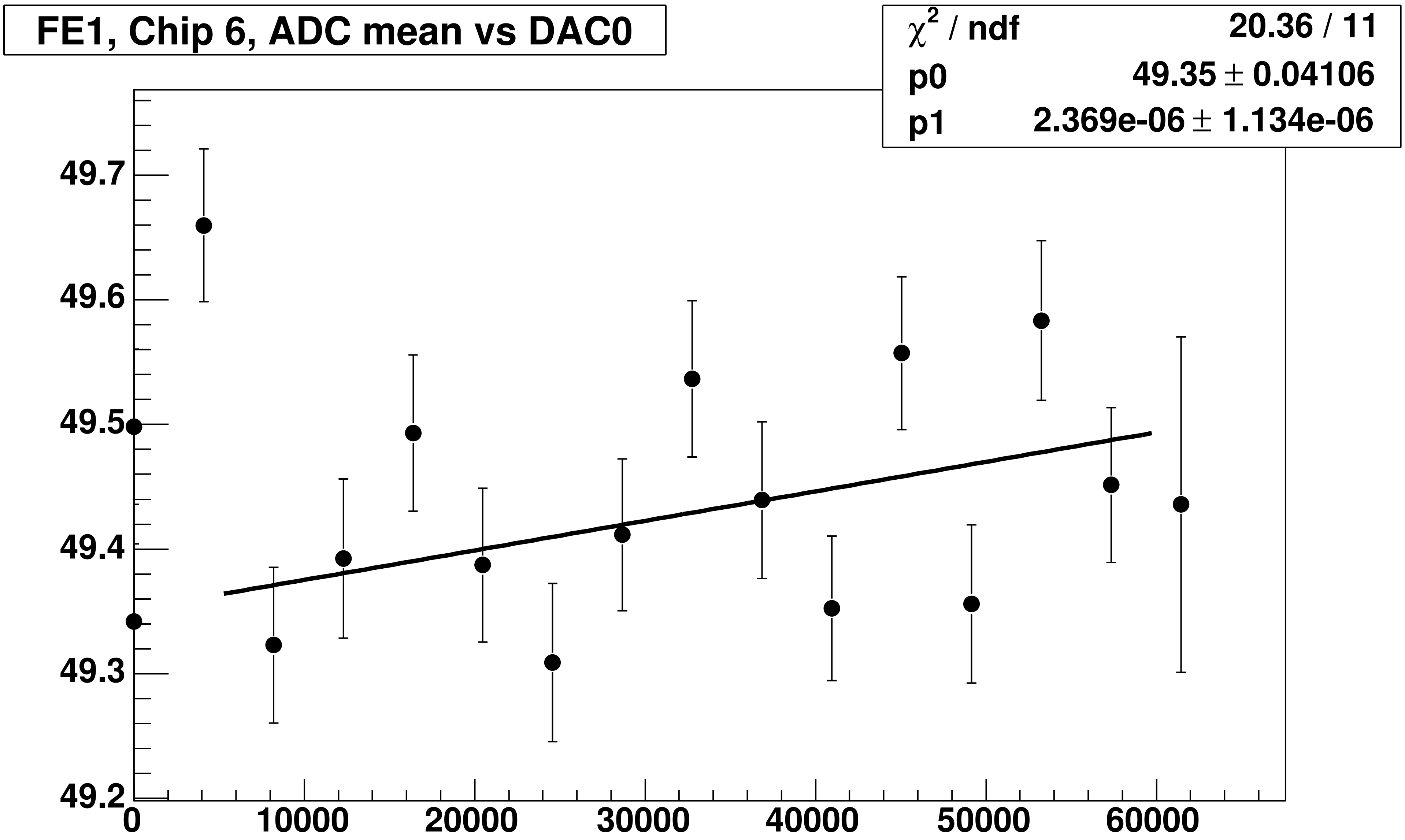


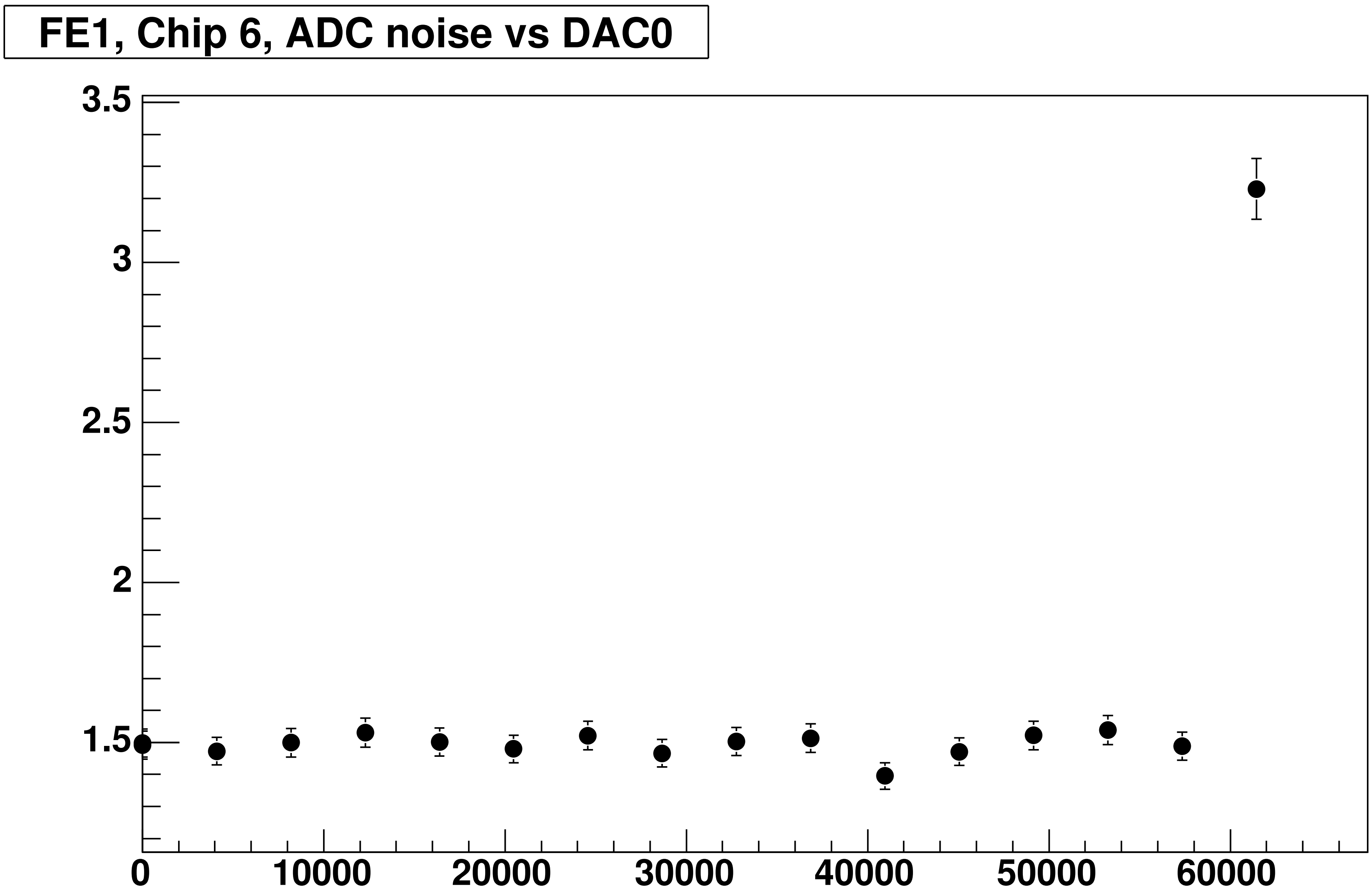
FE1, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

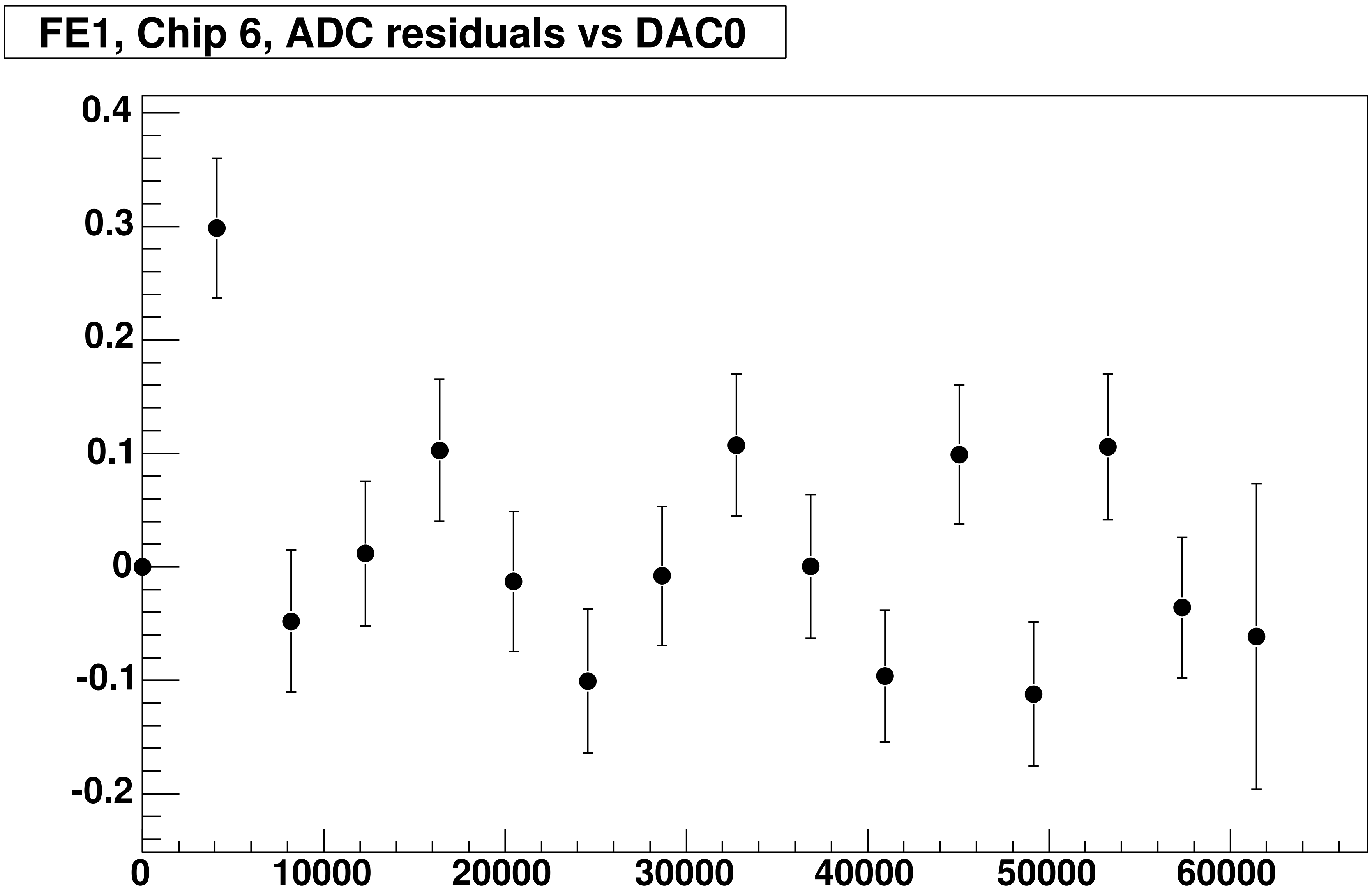

FE1, Chip 5, ADC mean vs DAC1
χ^2 / ndf 21.23 / 11
p0 50.07 ± 0.04083
p1 8.673e-07 ± 1.123e-06
50.3
50.25
50.2
50.15
50.1
50.05
50
49.95
49.9
0
10000
20000
30000
40000
50000
60000

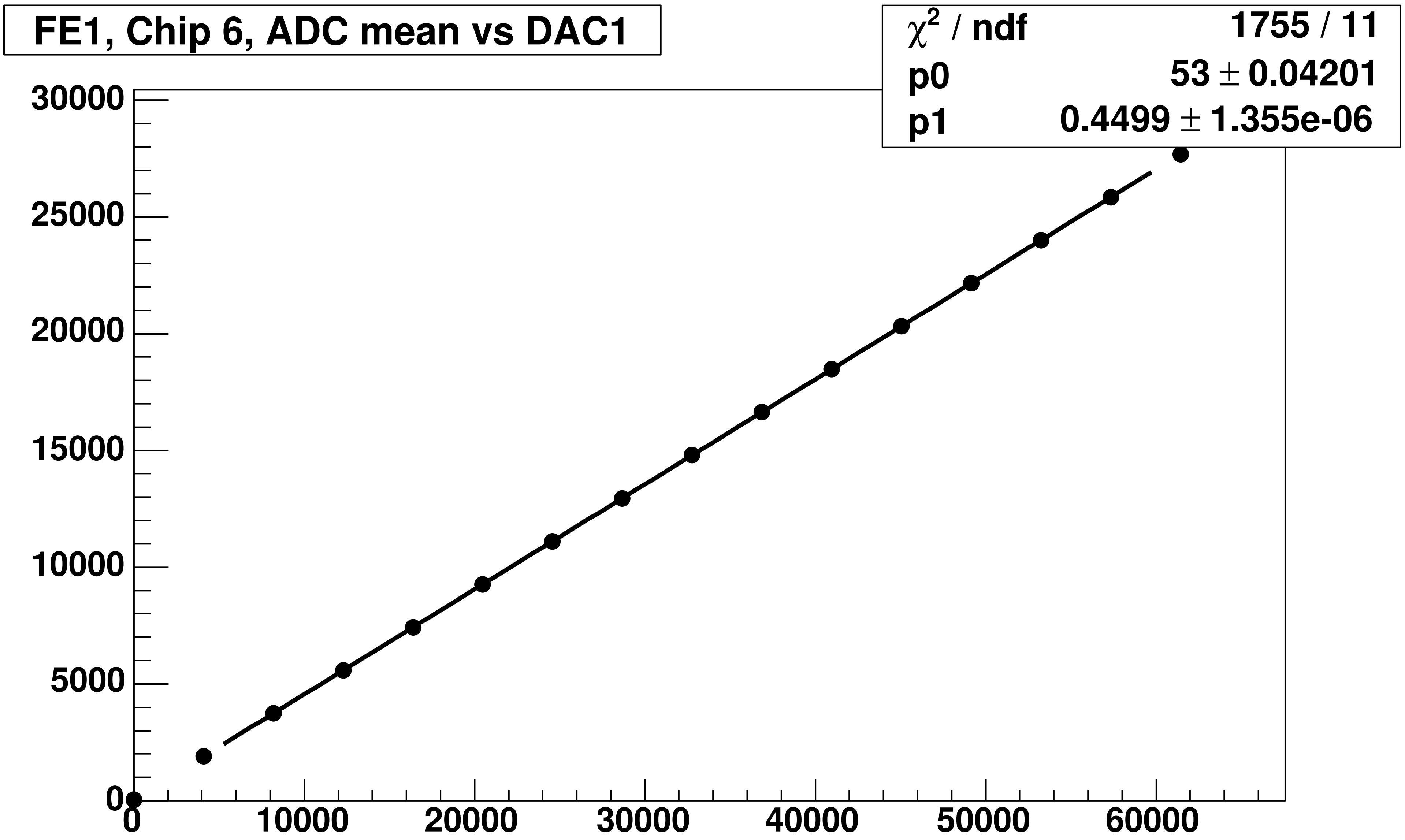

FE1, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

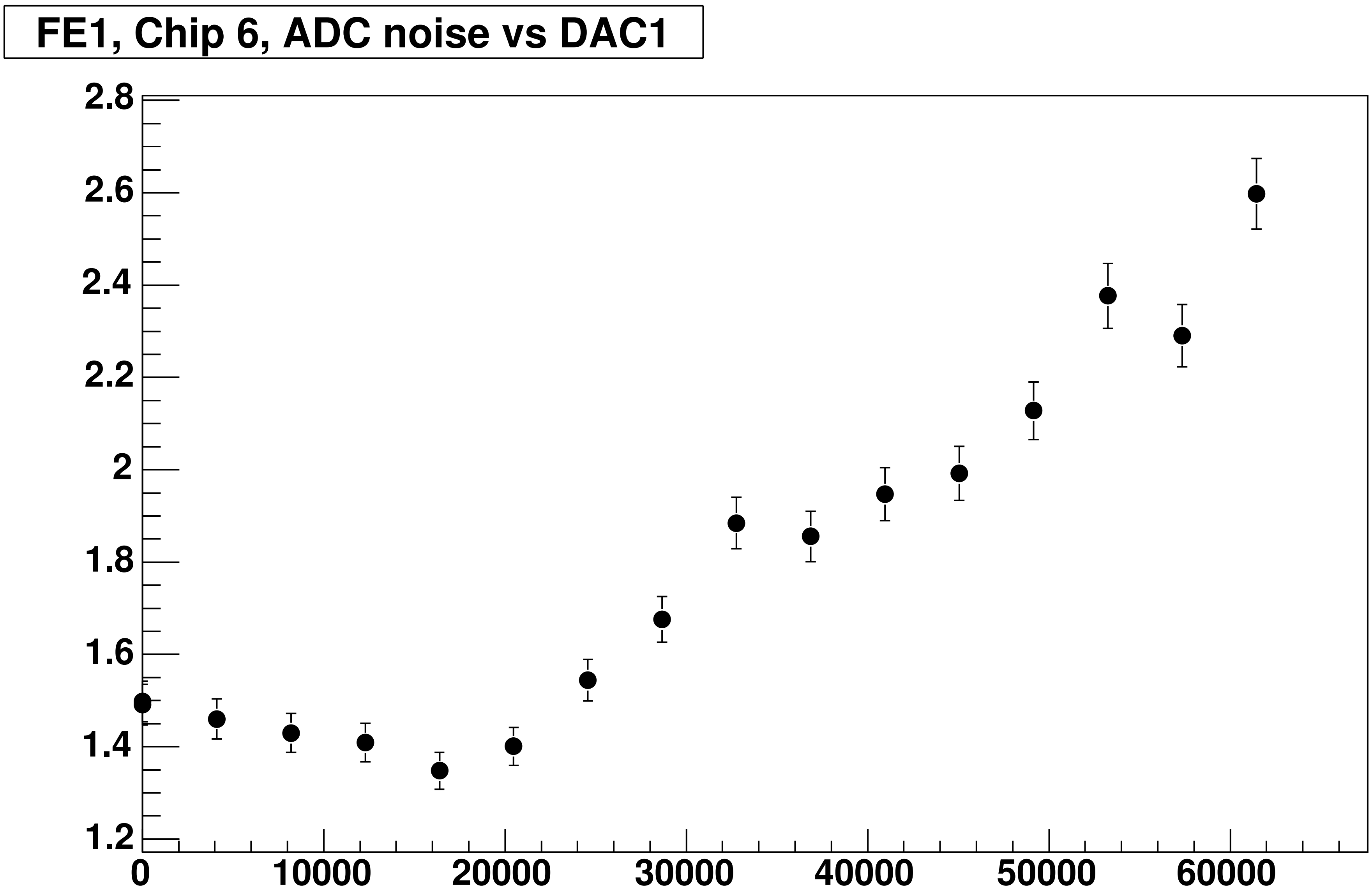

FE1, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

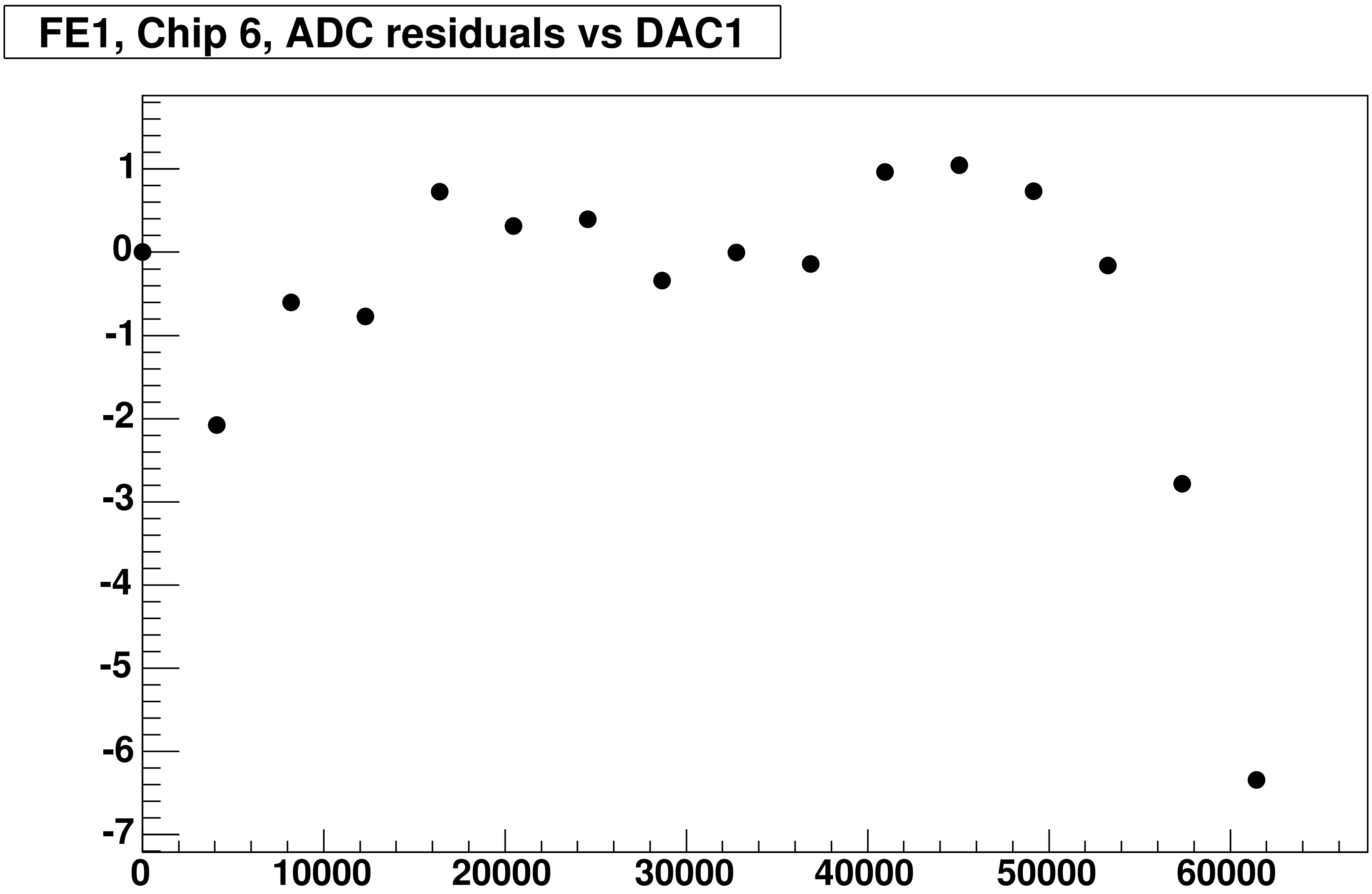

FE1, Chip 6, ADC mean vs DAC0
χ^2 / ndf 20.36 / 11
p0 49.35 ± 0.04106
p1 2.369e-06 ± 1.134e-06
49.2
49.3
49.4
49.5
49.6
49.7
0
10000
20000
30000
40000
50000
60000

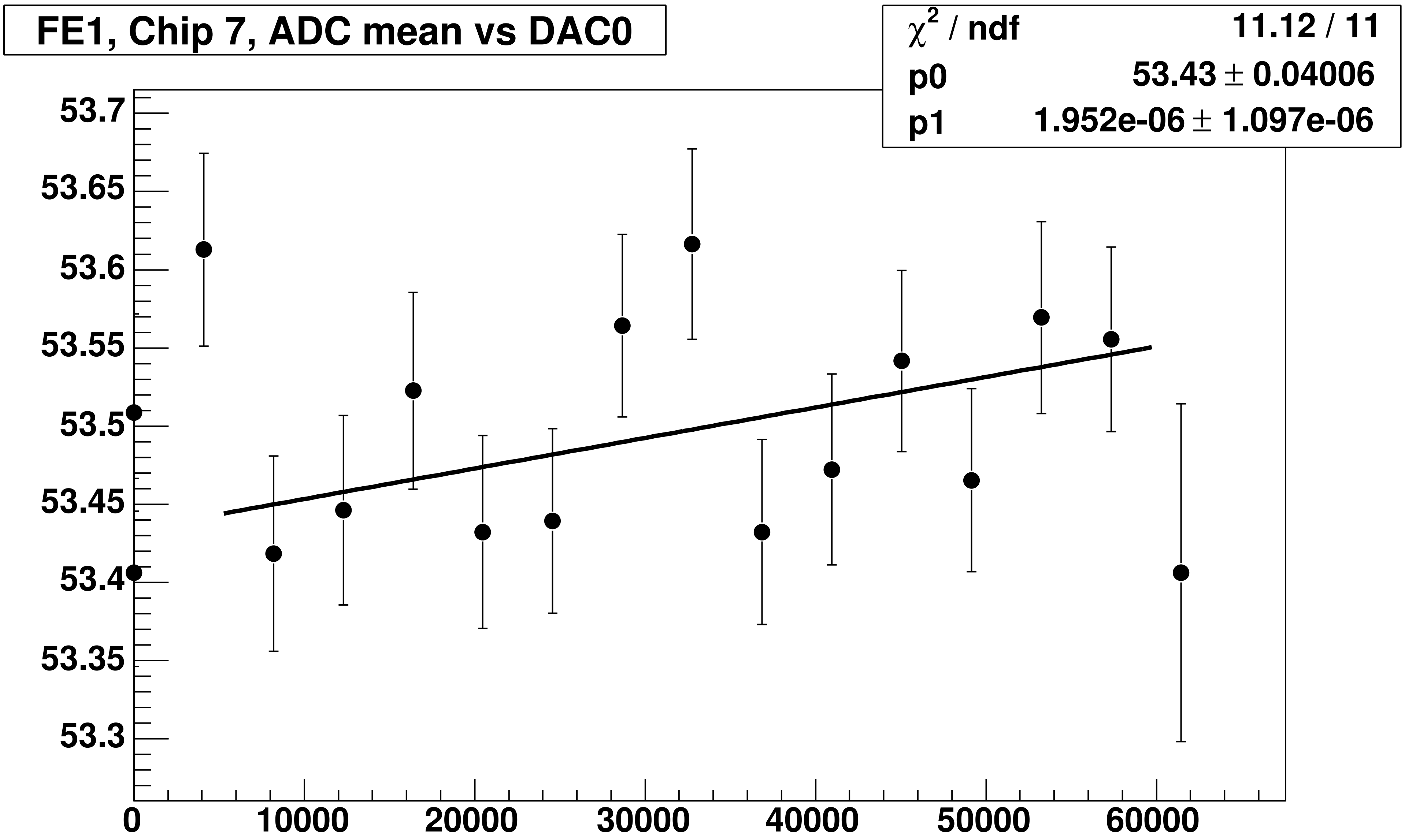

FE1, Chip 6, ADC noise vs DAC0
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000


FE1, Chip 6, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

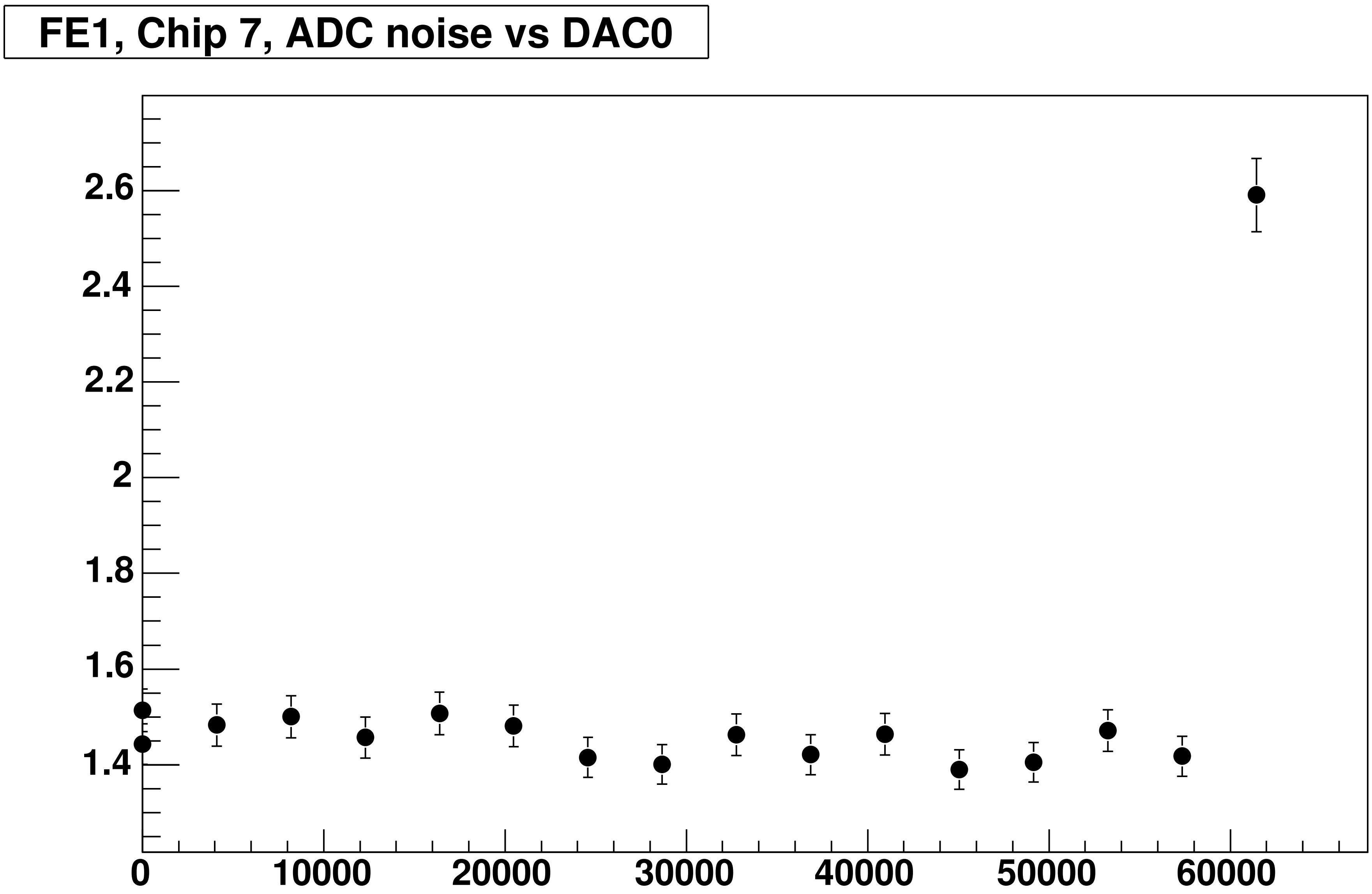

FE1, Chip 6, ADC mean vs DAC1
χ2 / ndf 1755 / 11
p0 53 ± 0.04201
p1 0.4499 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE1, Chip 6, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

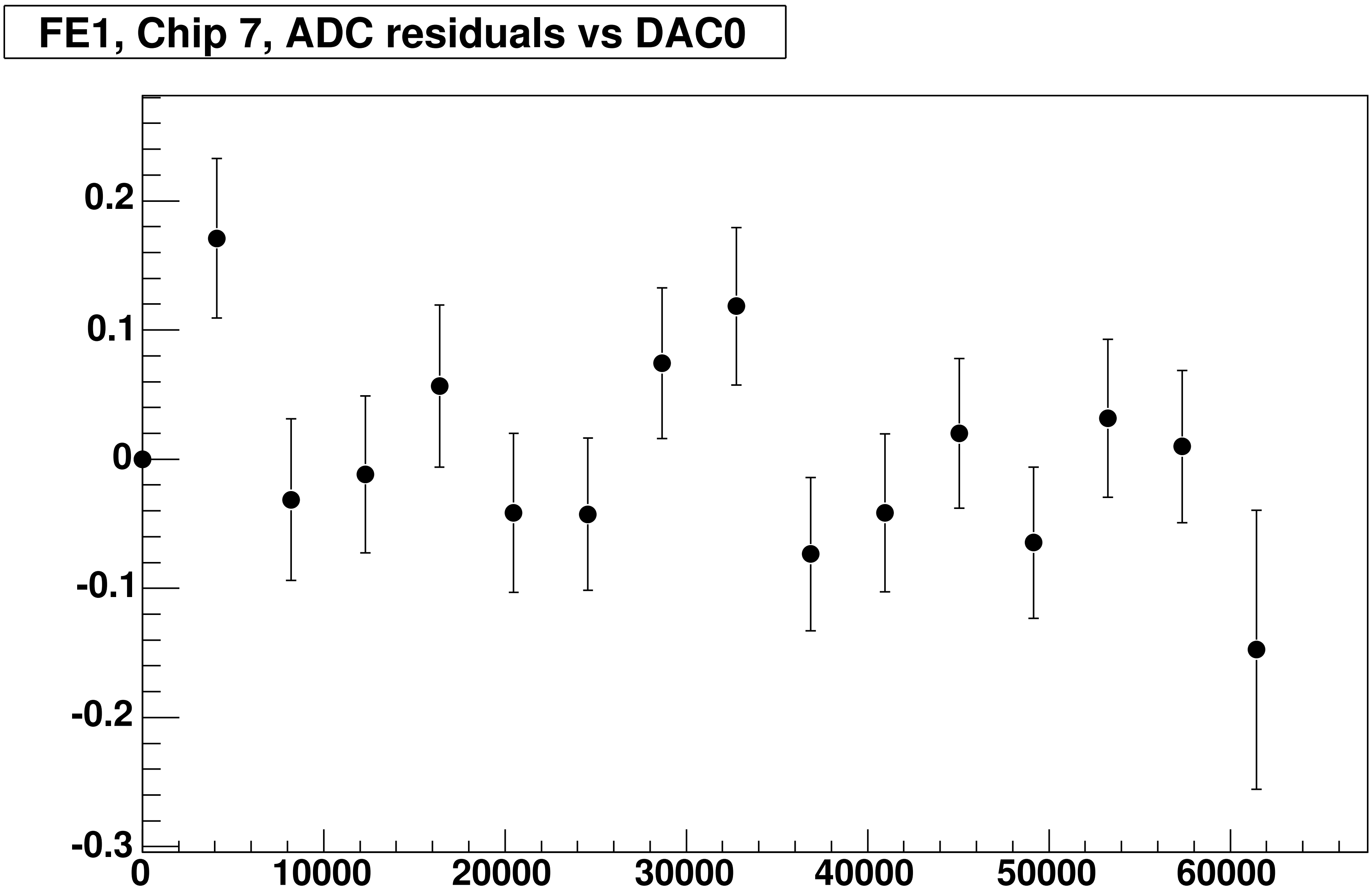

FE1, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

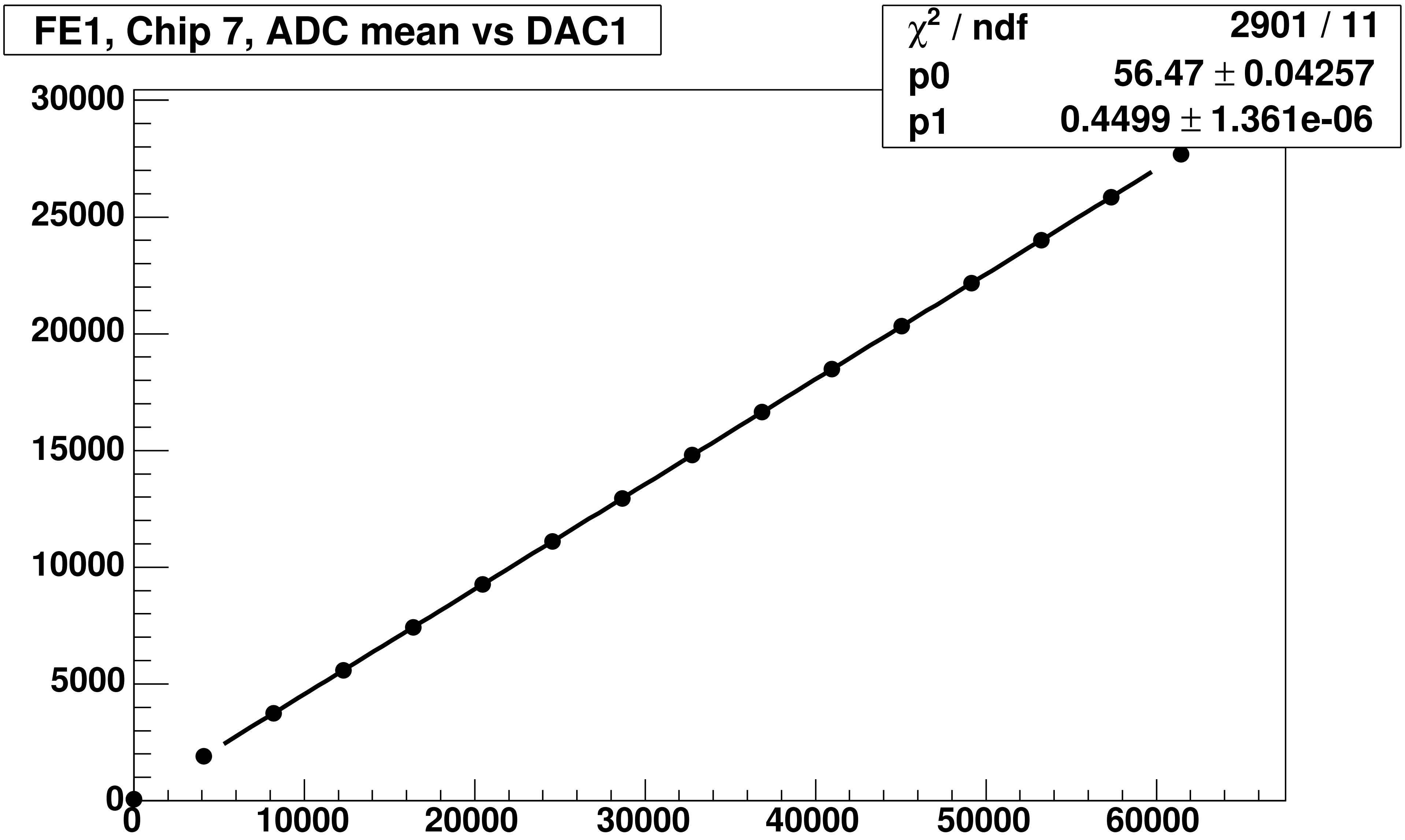


FE1, Chip 7, ADC mean vs DAC0
χ2 / ndf 11.12 / 11
p0 53.43 ± 0.04006
p1 1.952e-06 ± 1.097e-06
53.7
53.65
53.6
53.55
53.5
53.45
53.4
53.35
53.3
0
10000
20000
30000
40000
50000
60000



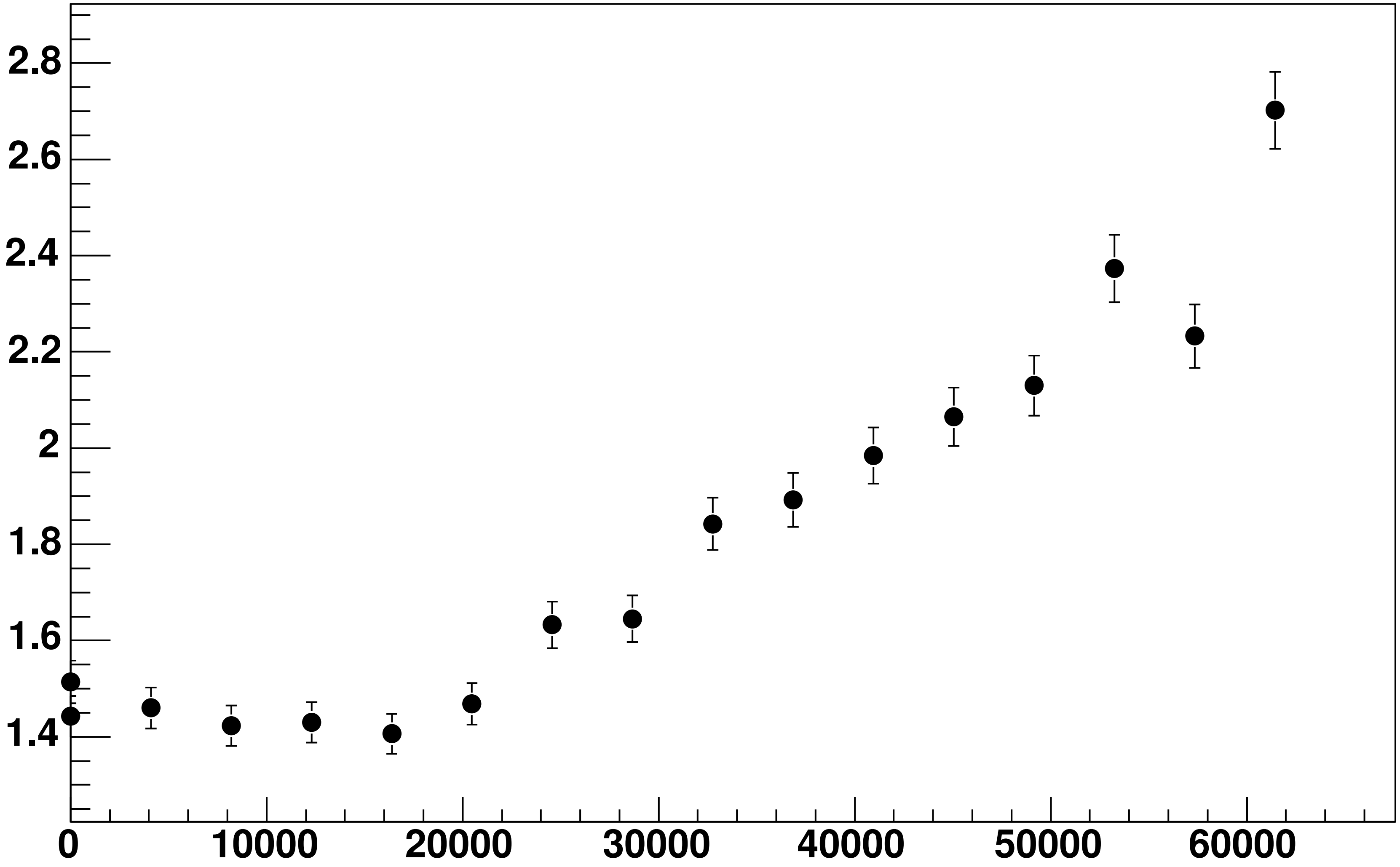
FE1, Chip 7, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

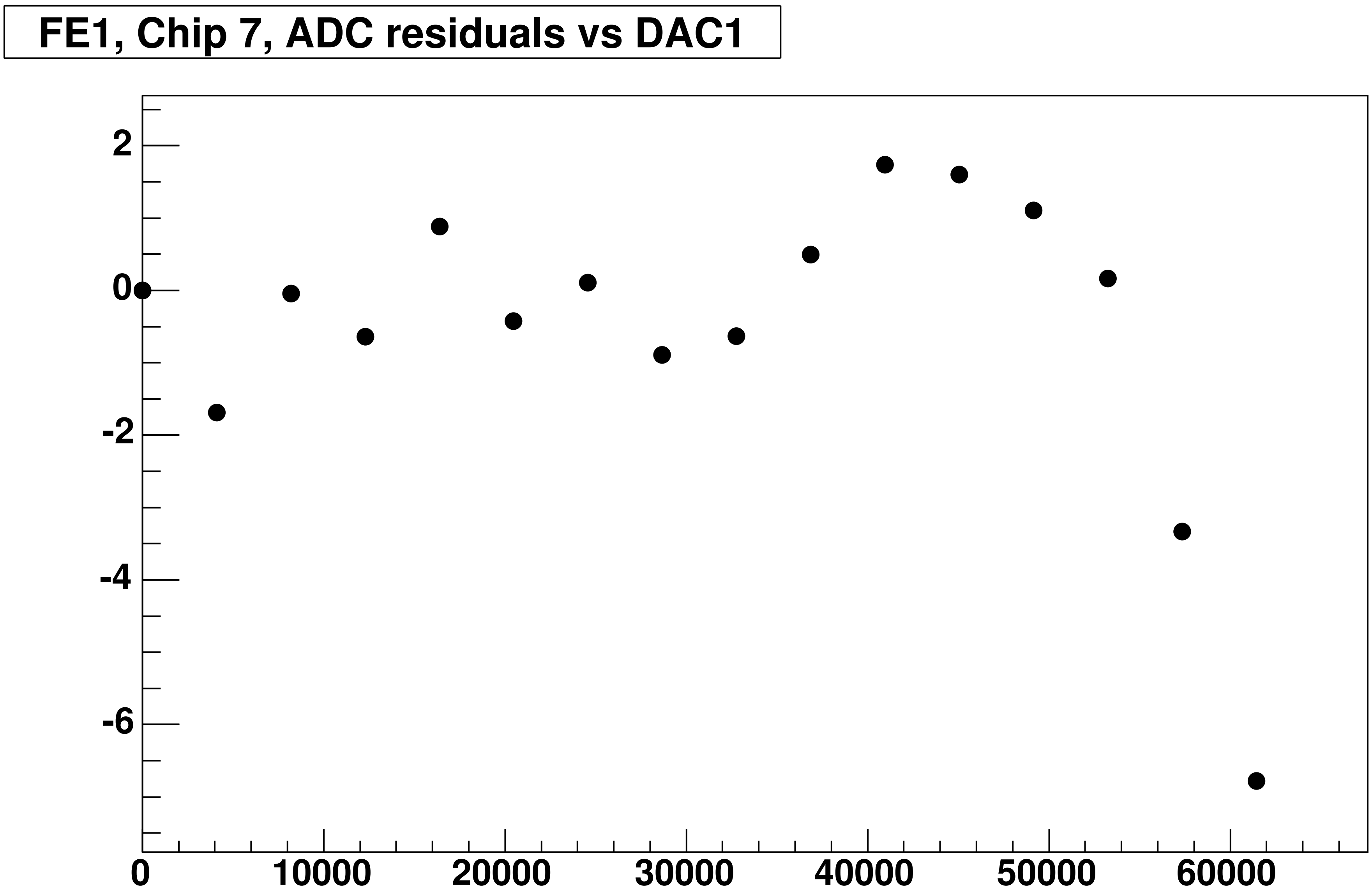

FE1, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



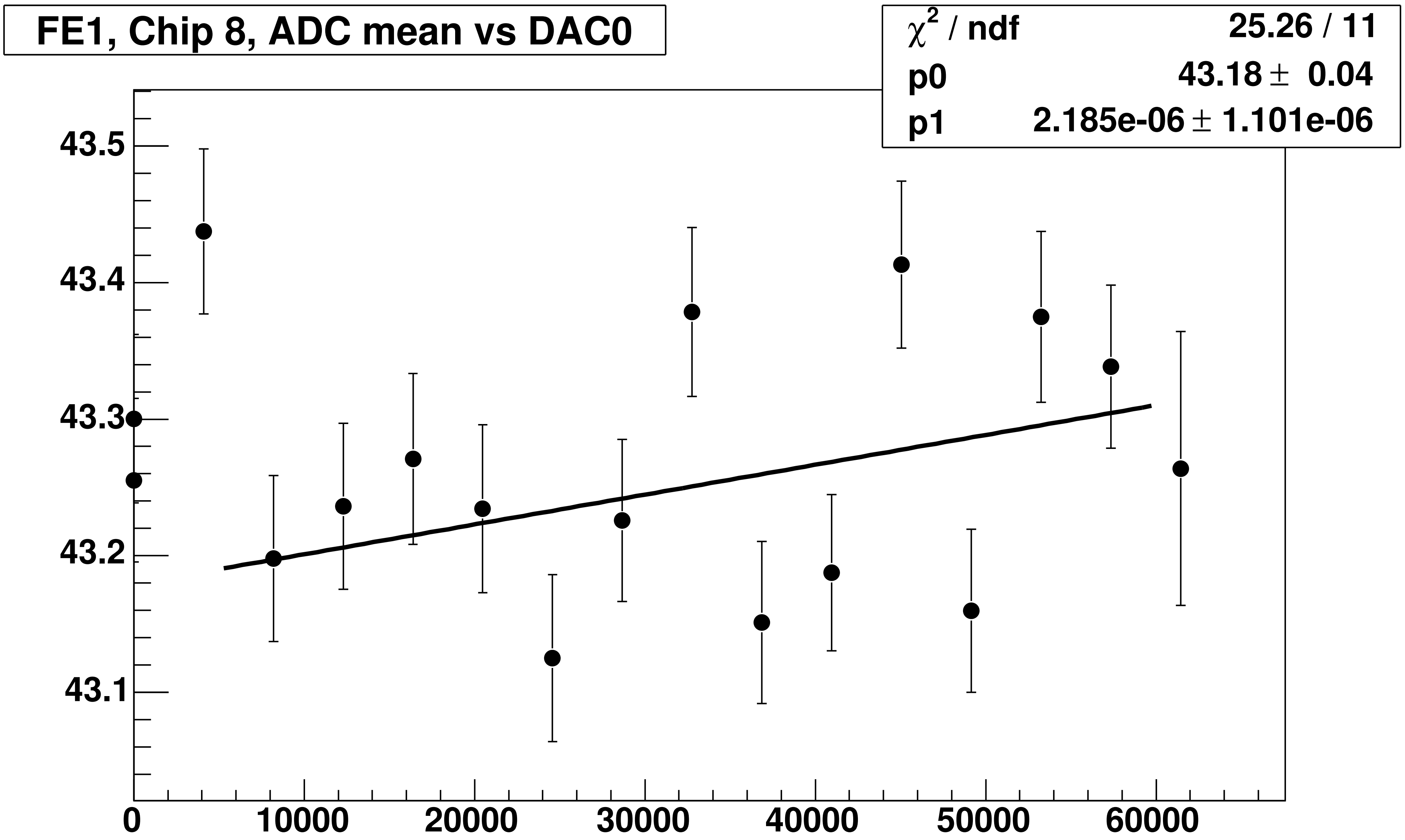
FE1, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2901 / 11
p0 56.47 ± 0.04257
p1 0.4499 ± 1.361e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

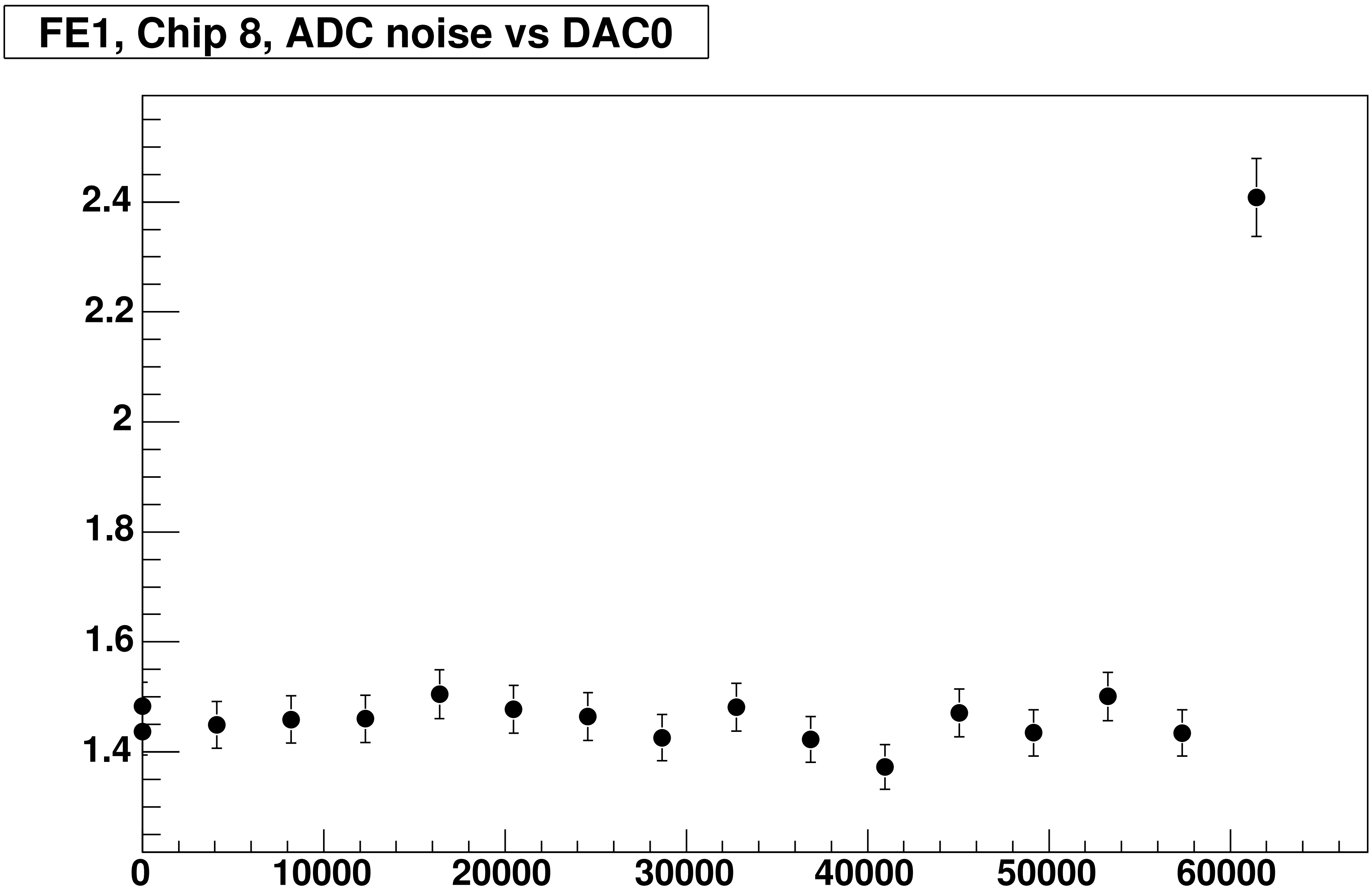
FE1, Chip 7, ADC noise vs DAC1

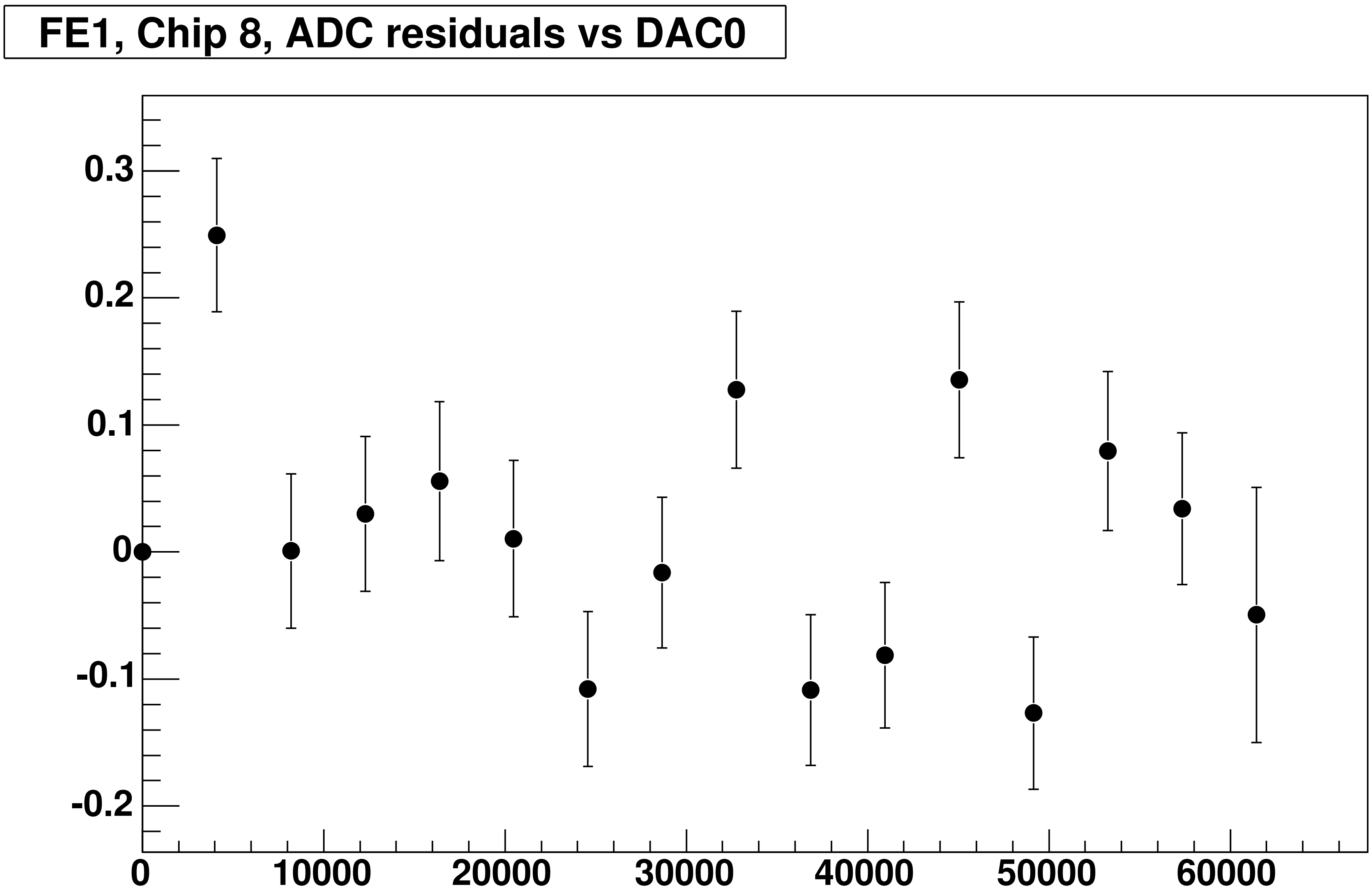




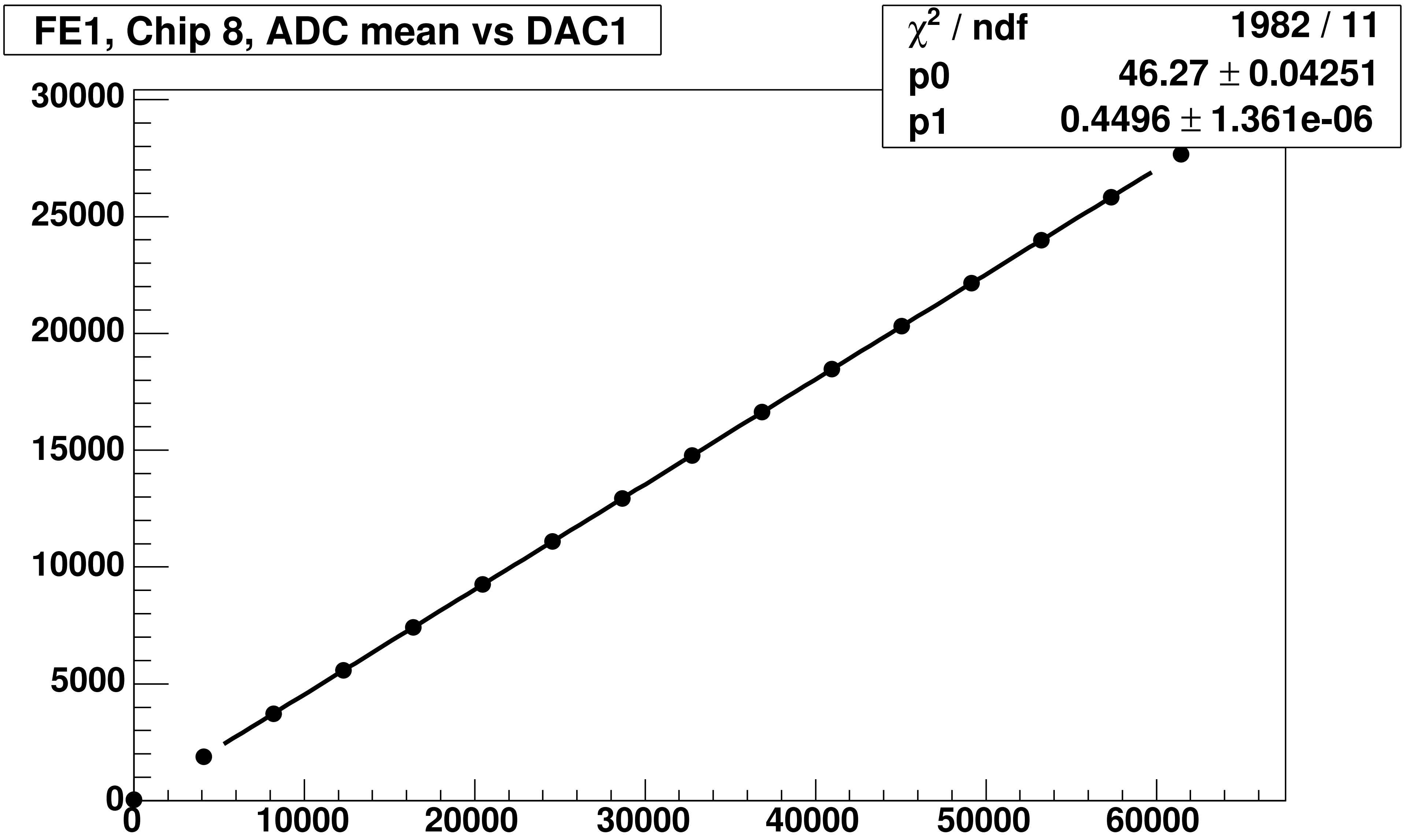
FE1, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000


FE1, Chip 8, ADC mean vs DAC0
χ² / ndf 25.26 / 11
p0 43.18 ± 0.04
p1 2.185e-06 ± 1.101e-06
43.5
43.4
43.3
43.2
43.1
0
10000
20000
30000
40000
50000
60000

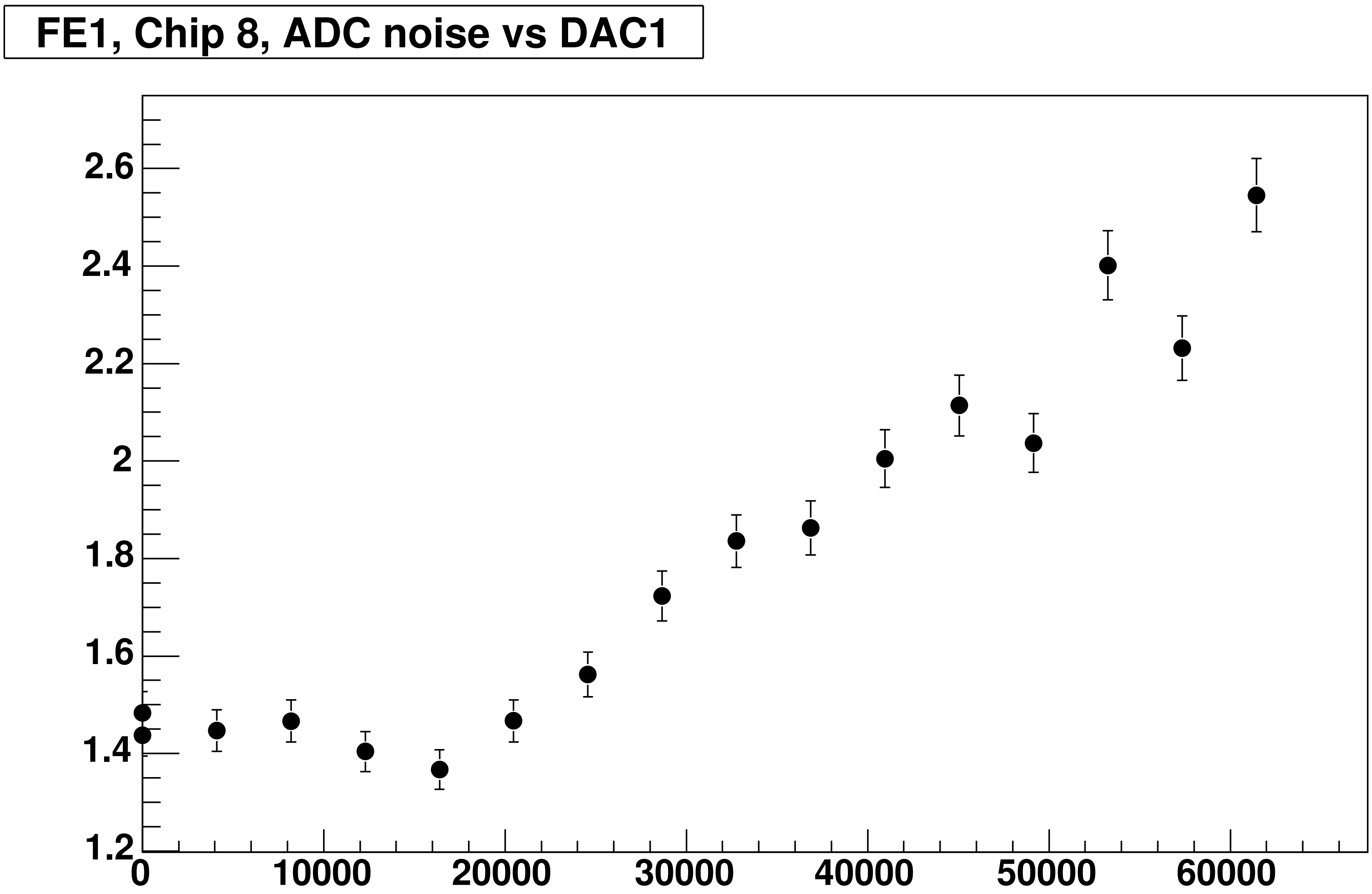

FE1, Chip 8, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

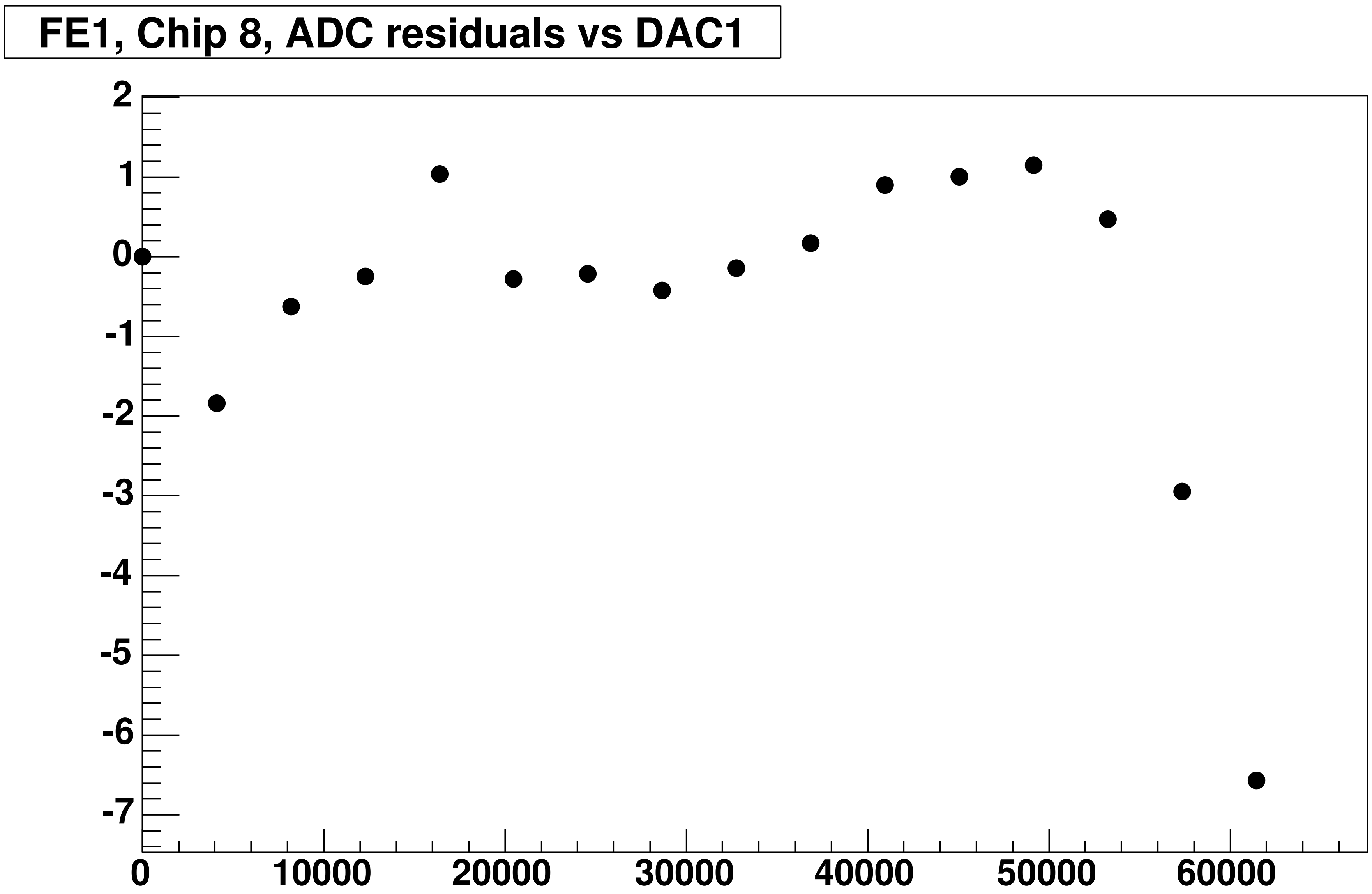


FE1, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

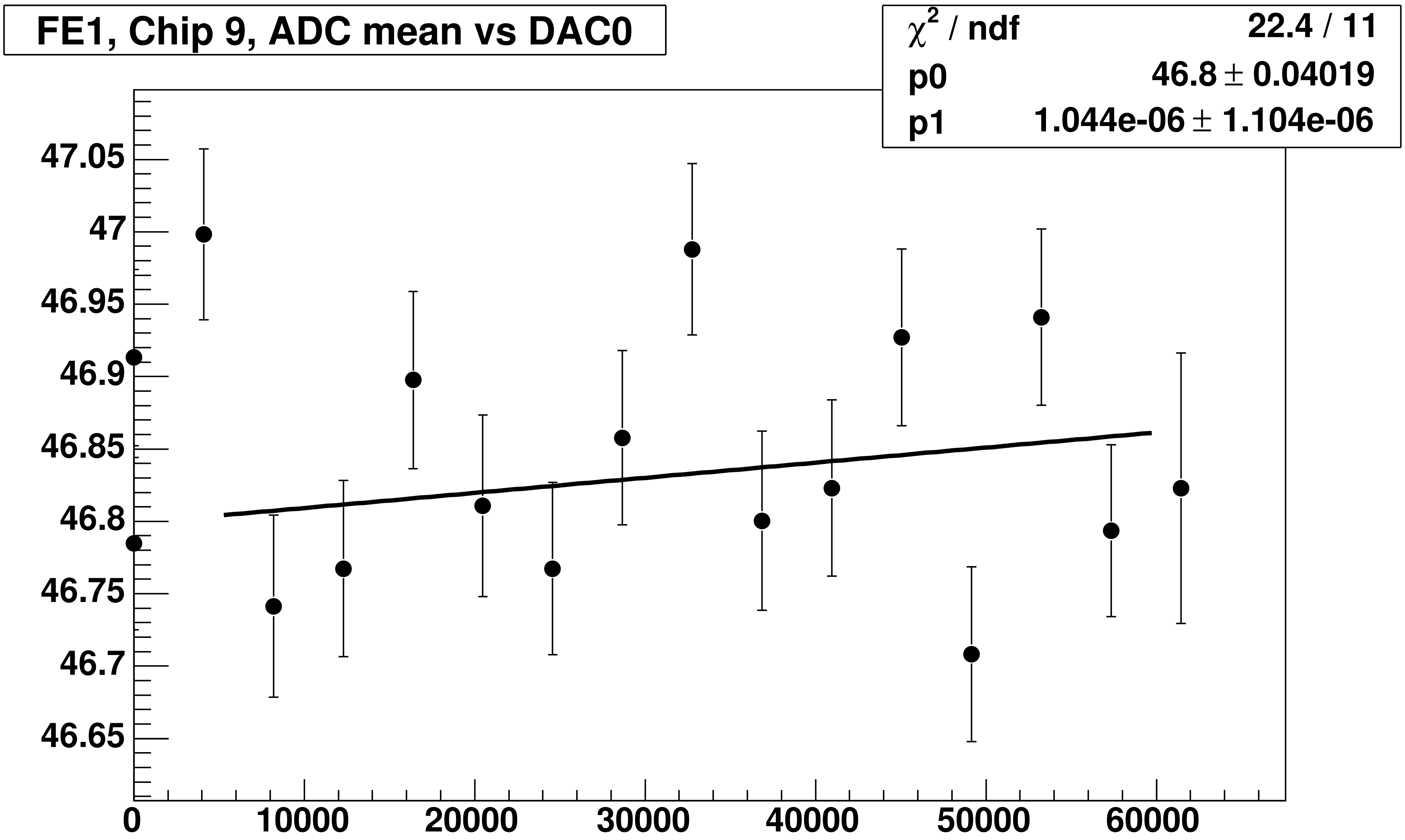


FE1, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1982 / 11
p0 46.27 ± 0.04251
p1 0.4496 ± 1.361e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

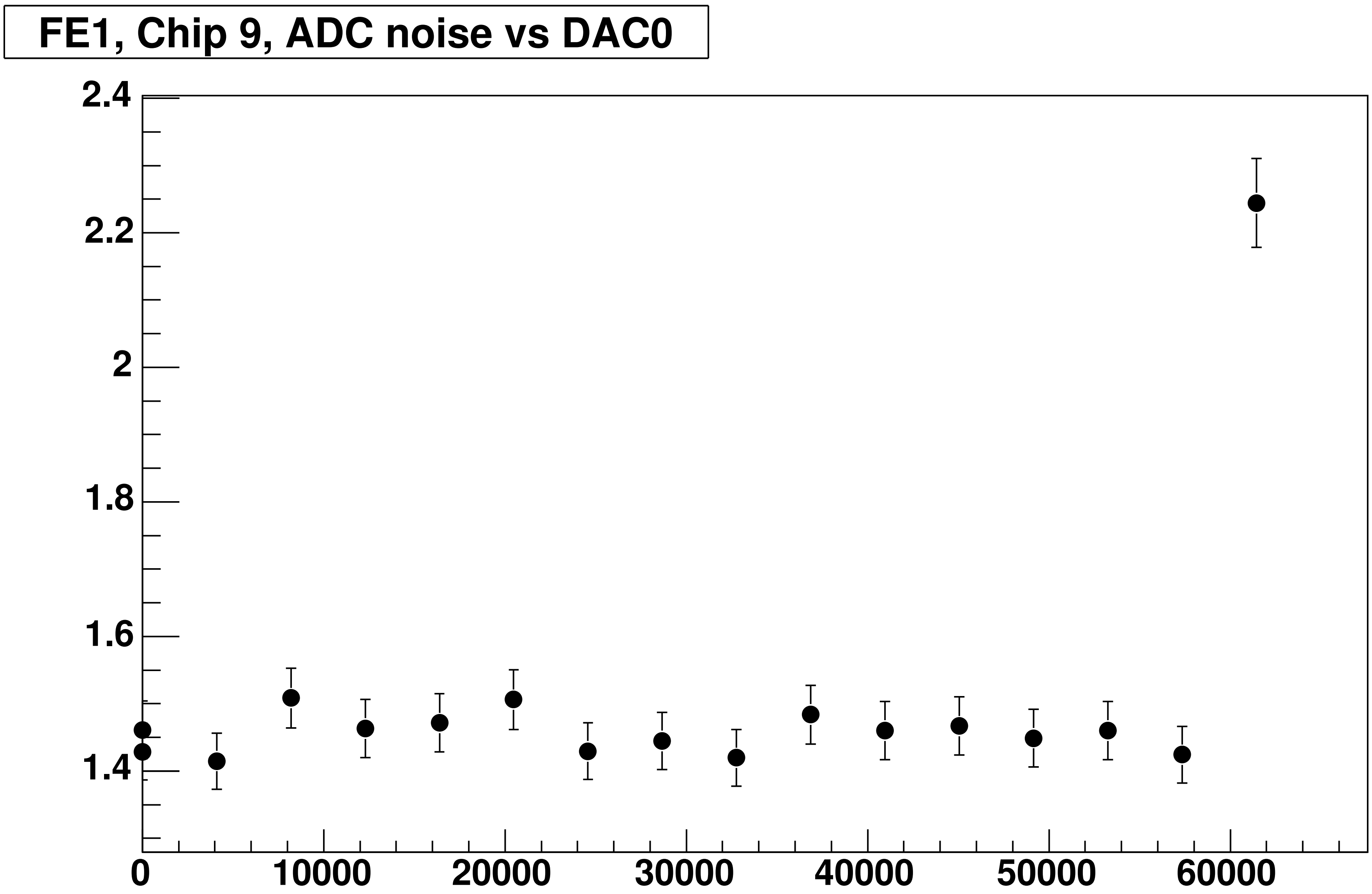

FE1, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



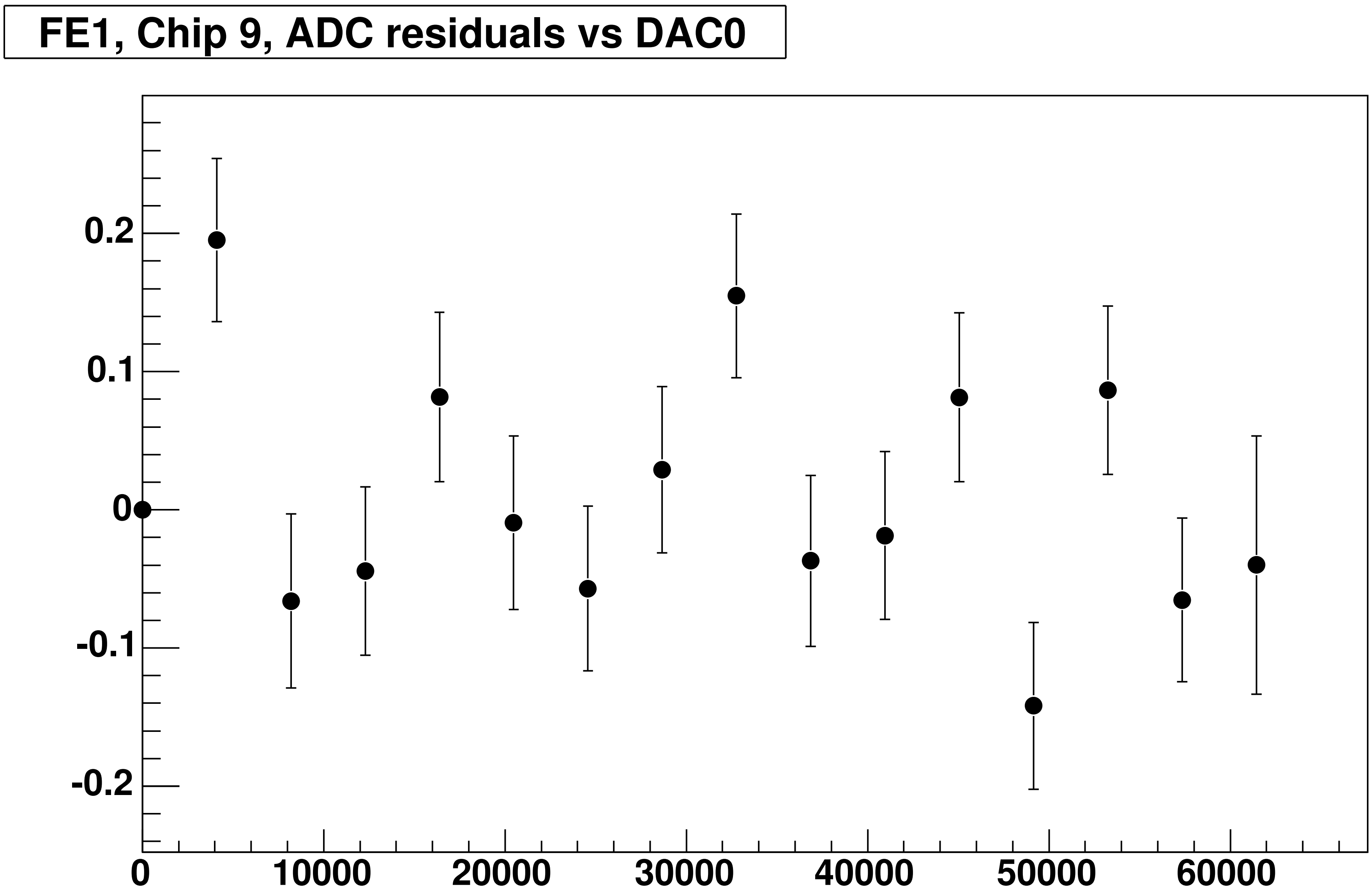
FE1, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

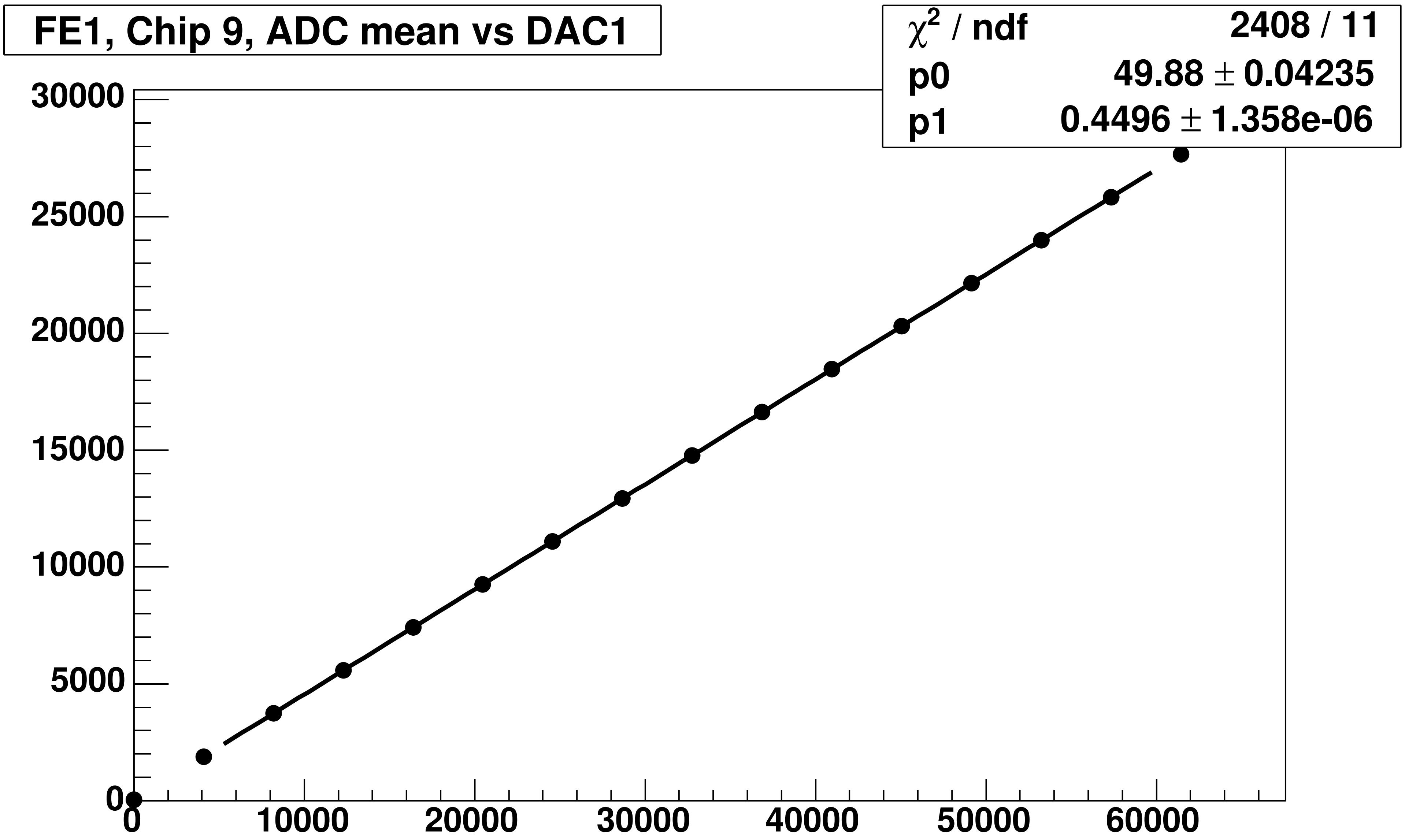


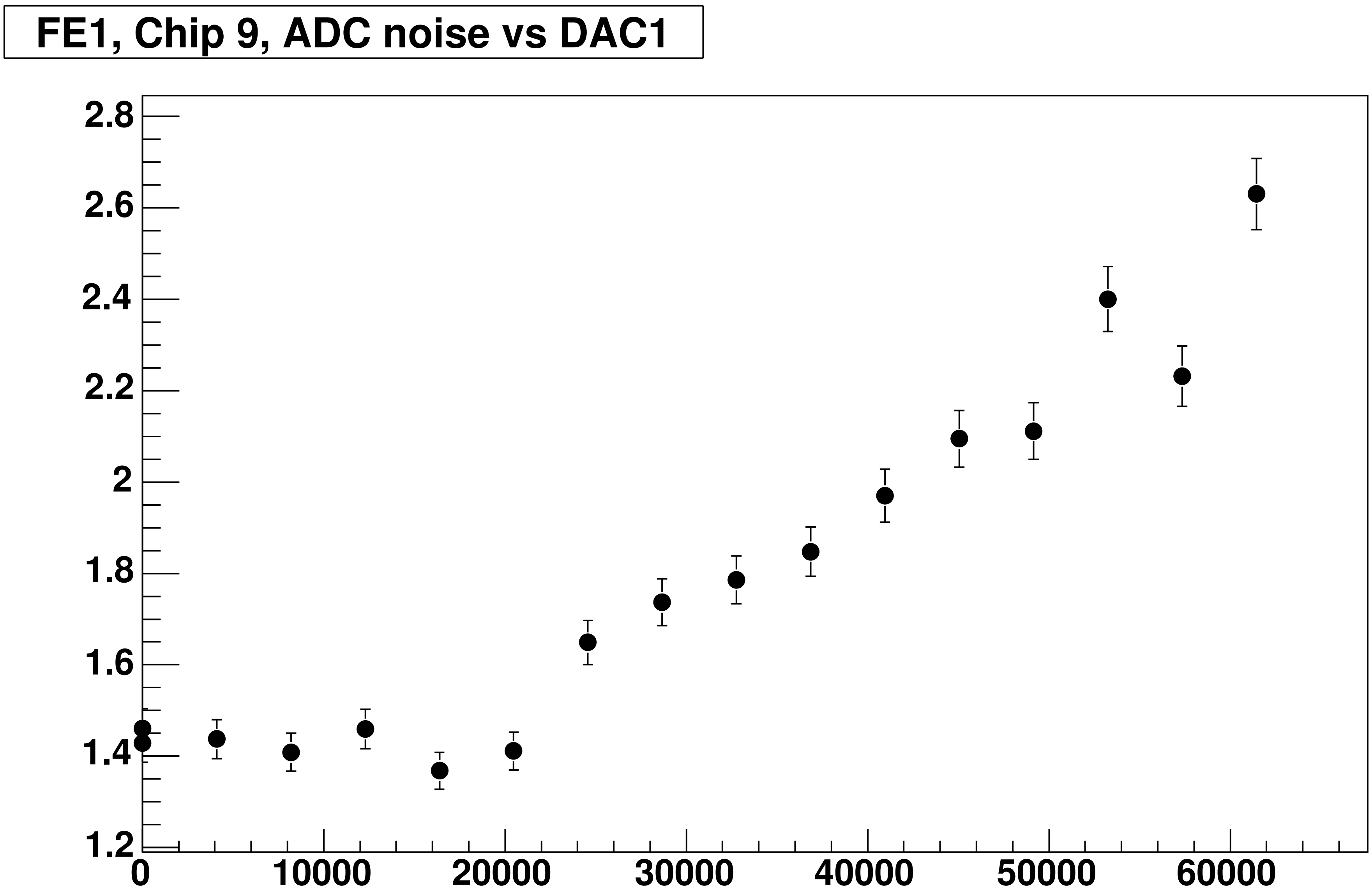
FE1, Chip 9, ADC mean vs DAC0
χ^2 / ndf 22.4 / 11
p0 46.8 ± 0.04019
p1 1.044e-06 ± 1.104e-06
47.05
47
46.95
46.9
46.85
46.8
46.75
46.7
46.65
0
10000
20000
30000
40000
50000
60000



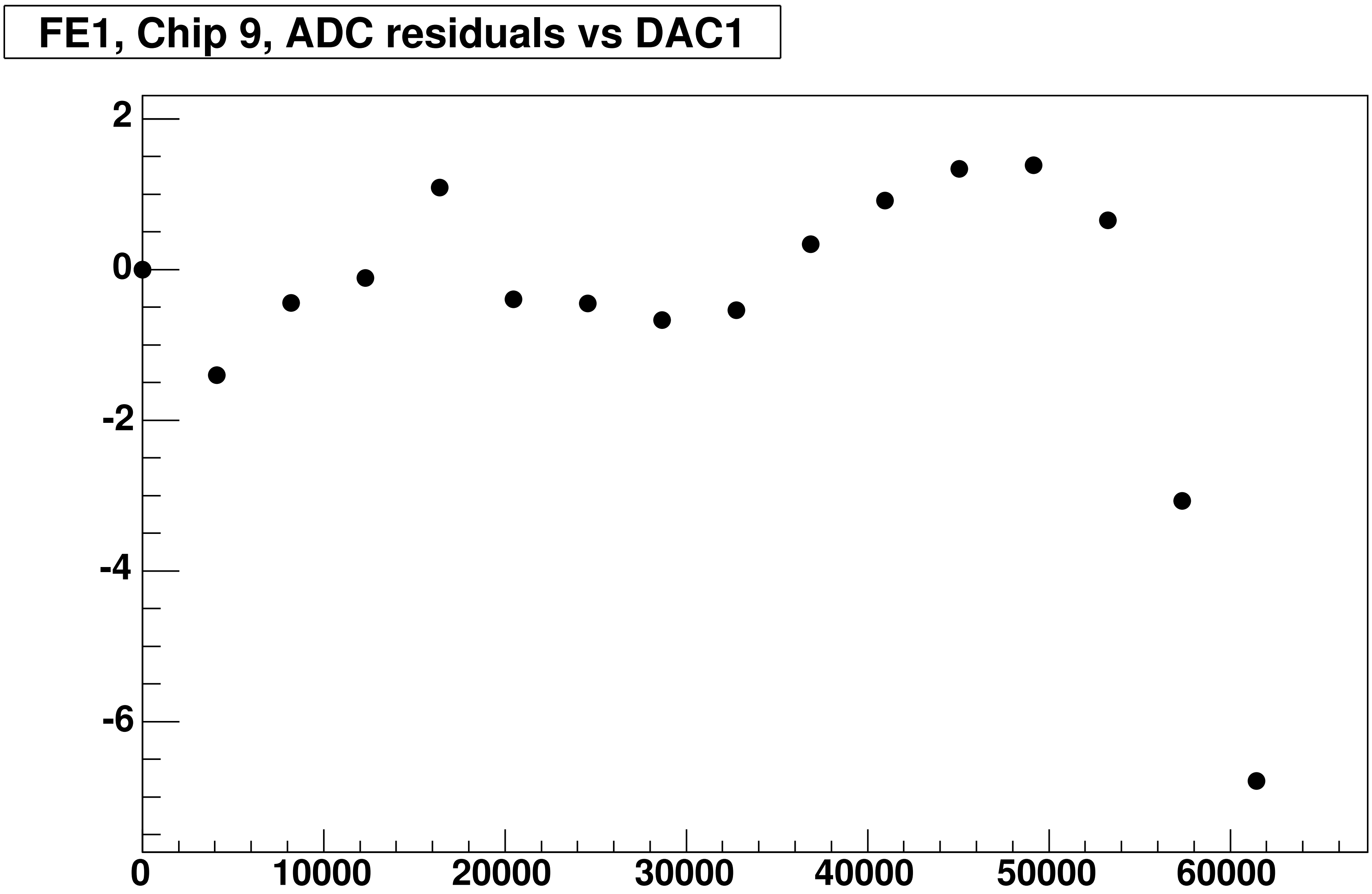
FE1, Chip 9, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

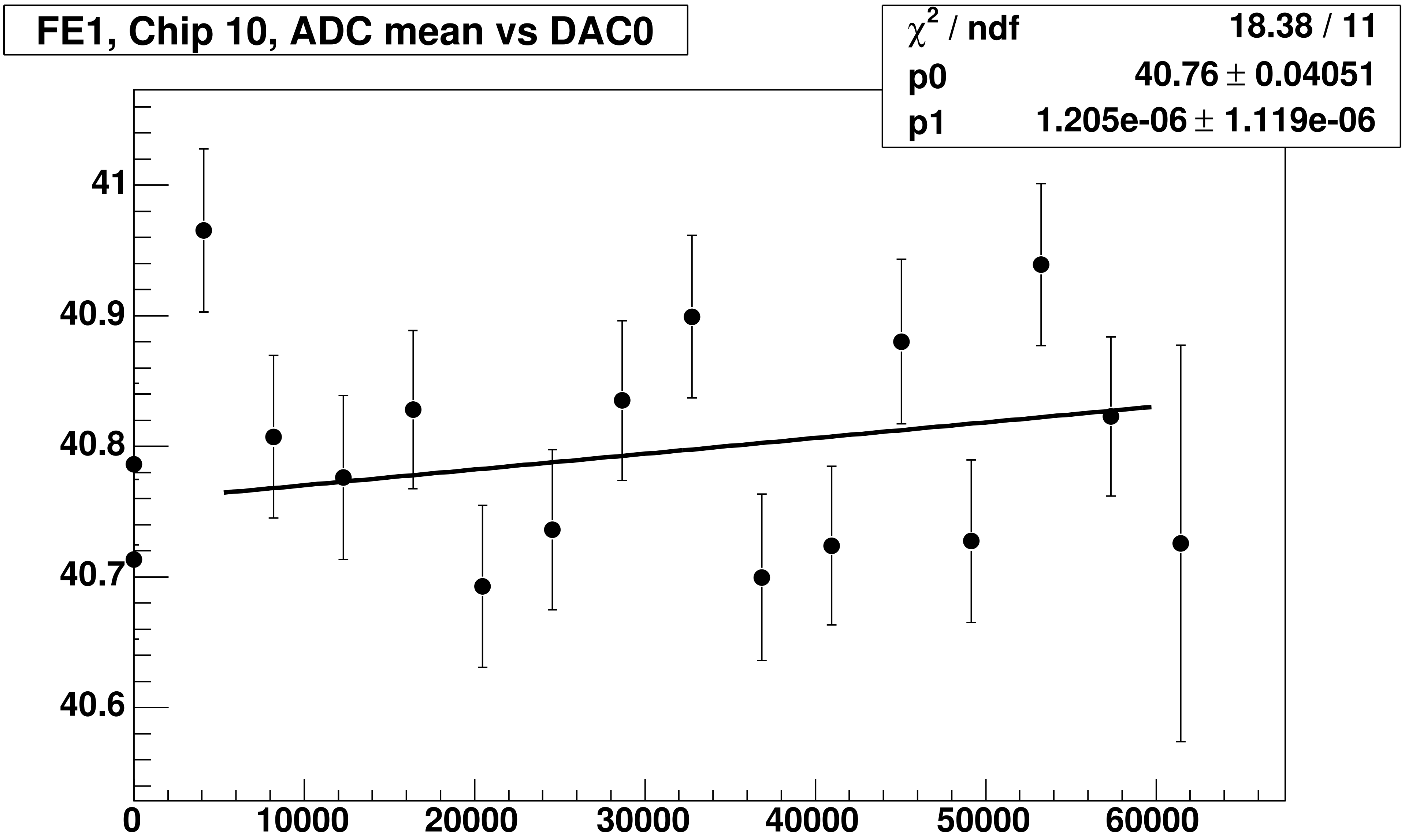

FE1, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE1, Chip 9, ADC mean vs DAC1
χ2 / ndf 2408 / 11
p0 49.88 ± 0.04235
p1 0.4496 ± 1.358e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

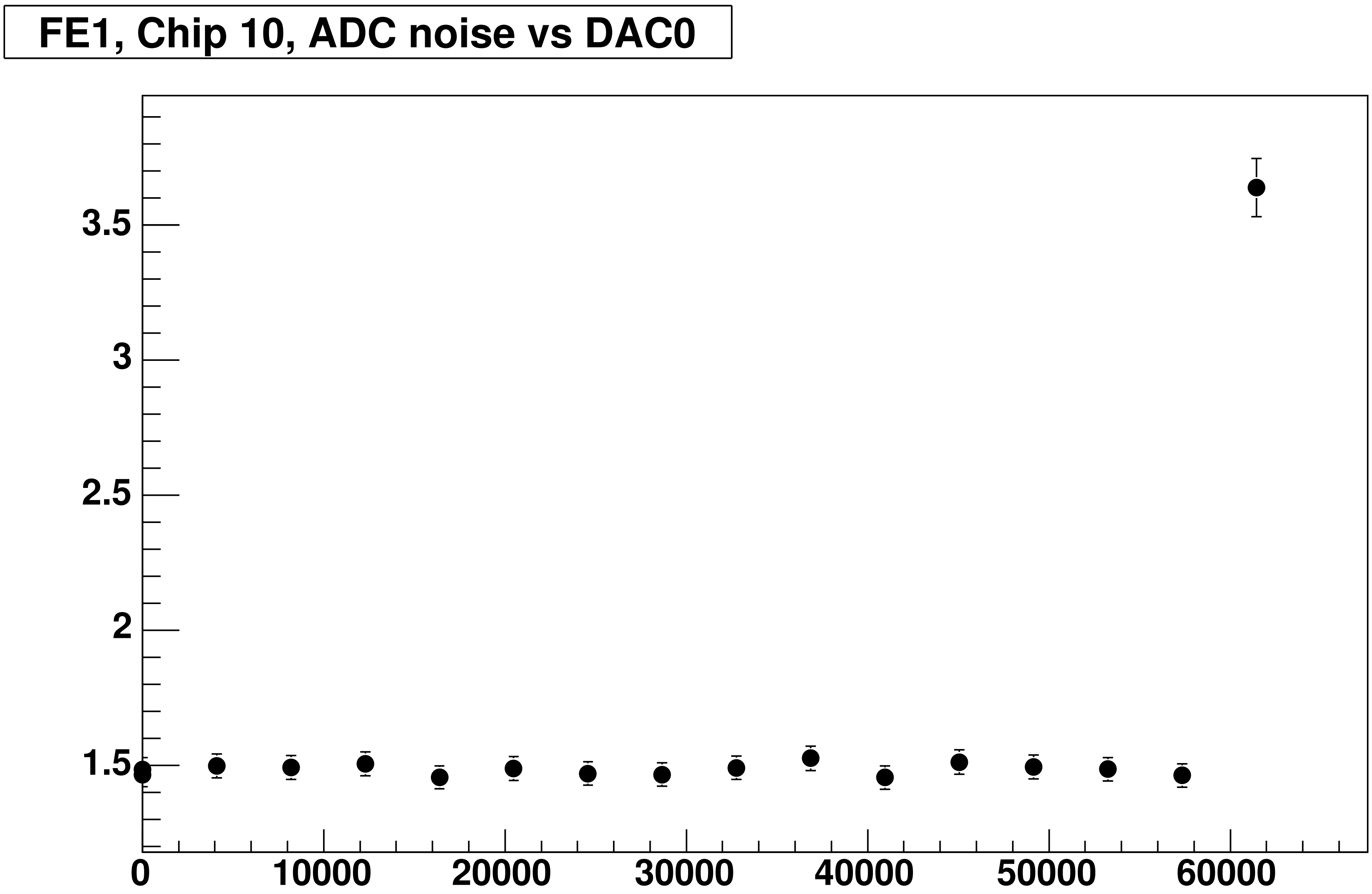


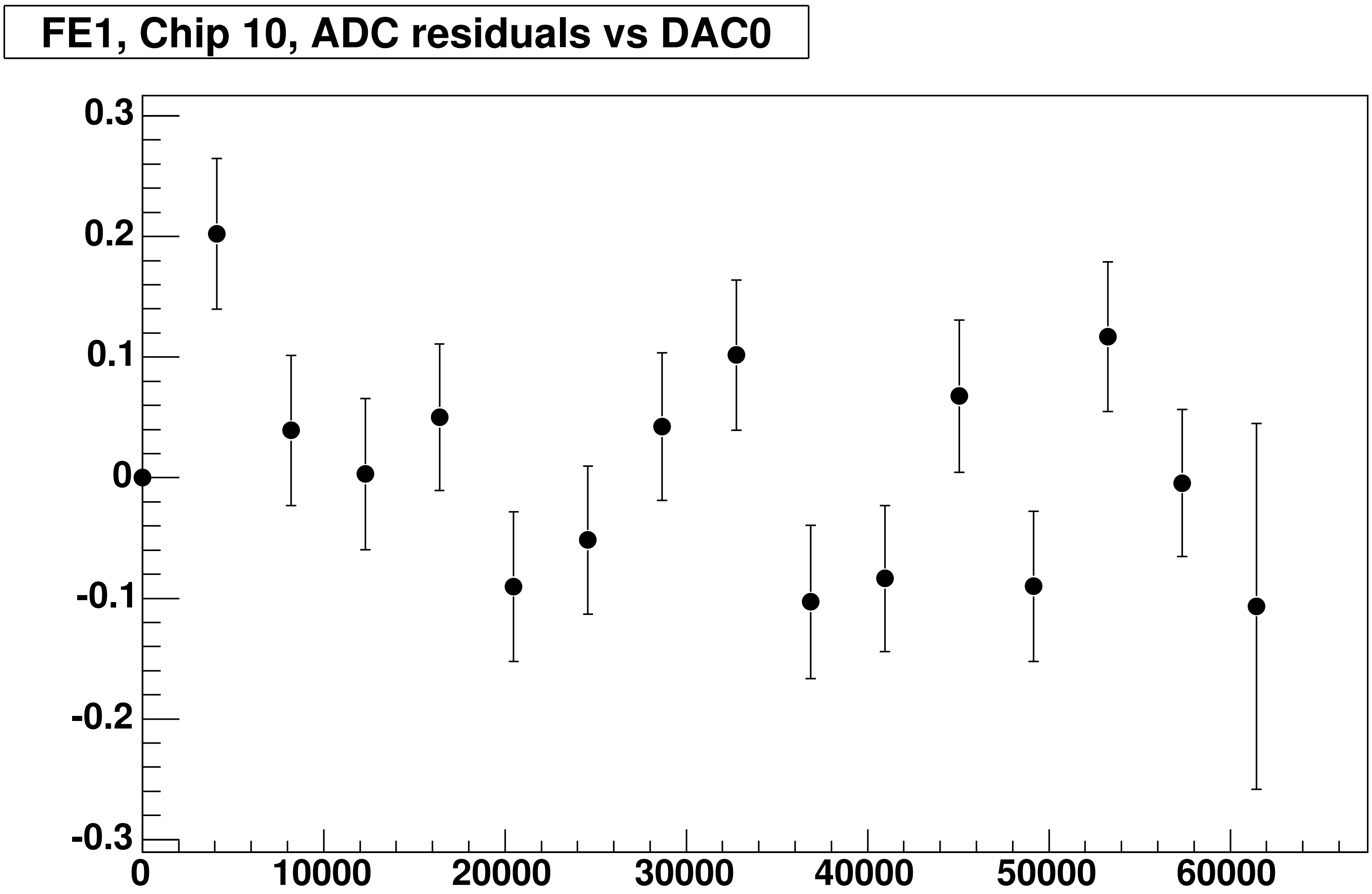
FE1, Chip 9, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

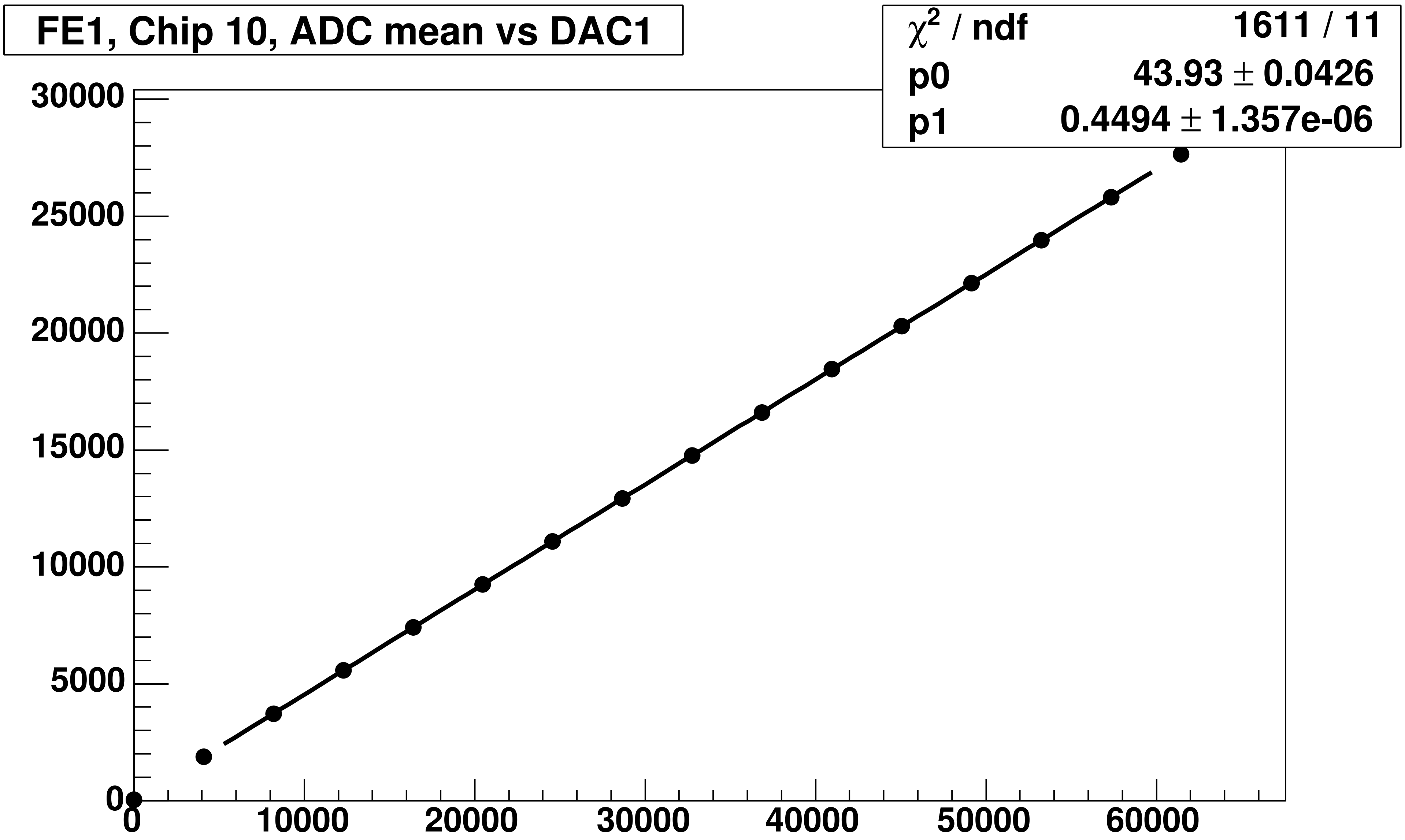

FE1, Chip 9, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

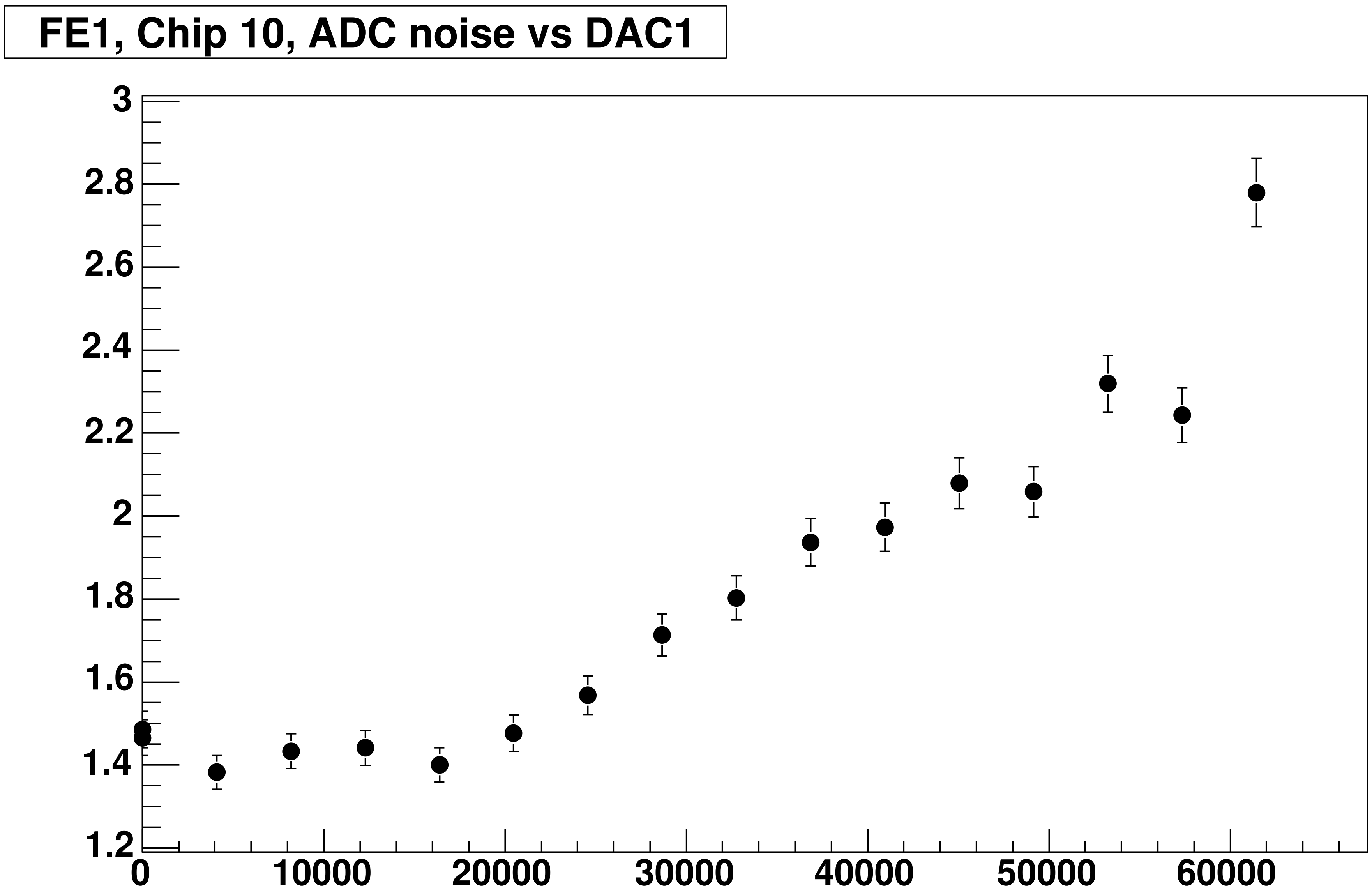


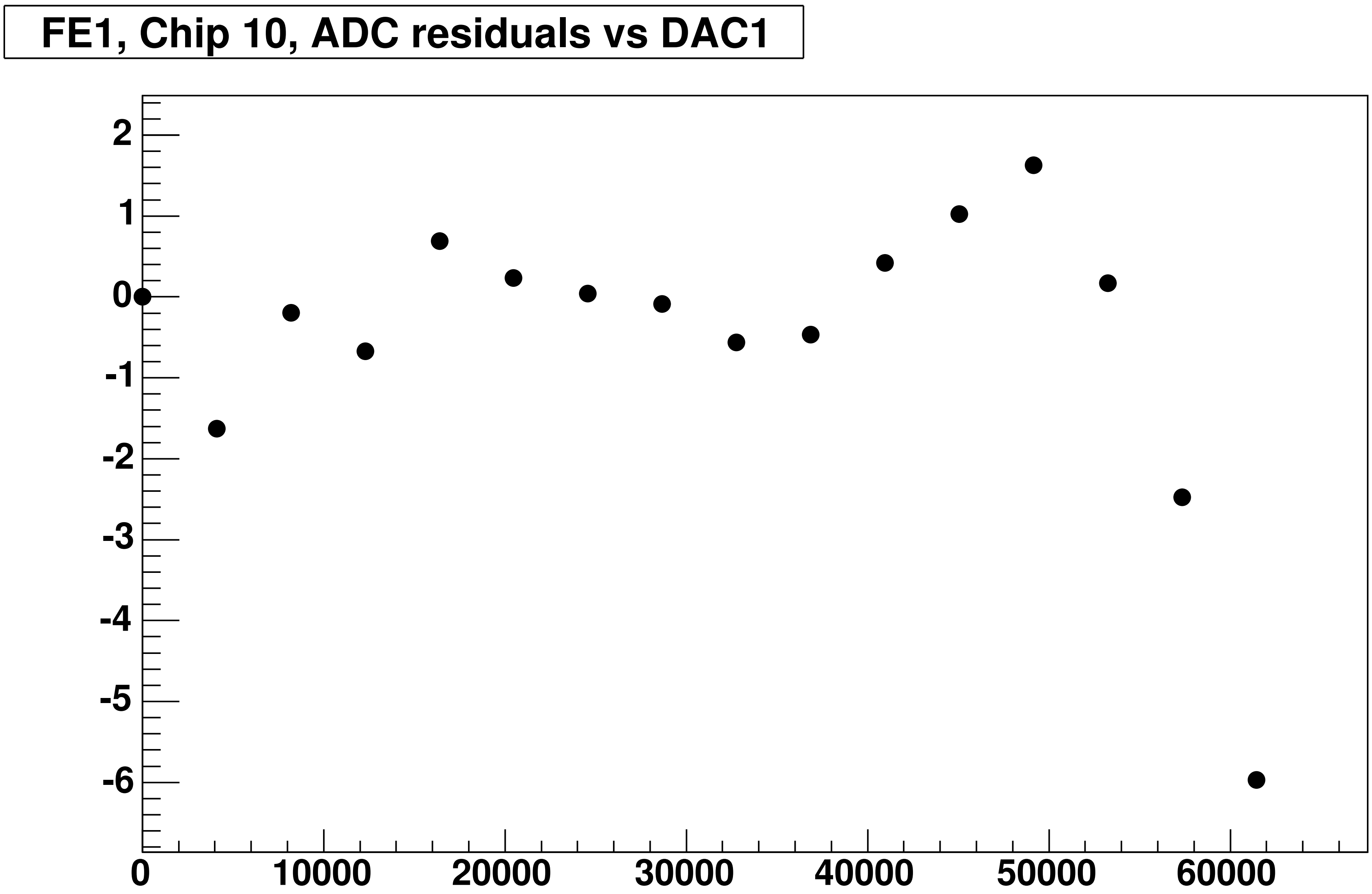
FE1, Chip 10, ADC mean vs DAC0
χ^2 / ndf 18.38 / 11
p0 40.76 ± 0.04051
p1 1.205e-06 ± 1.119e-06
41
40.9
40.8
40.7
40.6
0
10000
20000
30000
40000
50000
60000

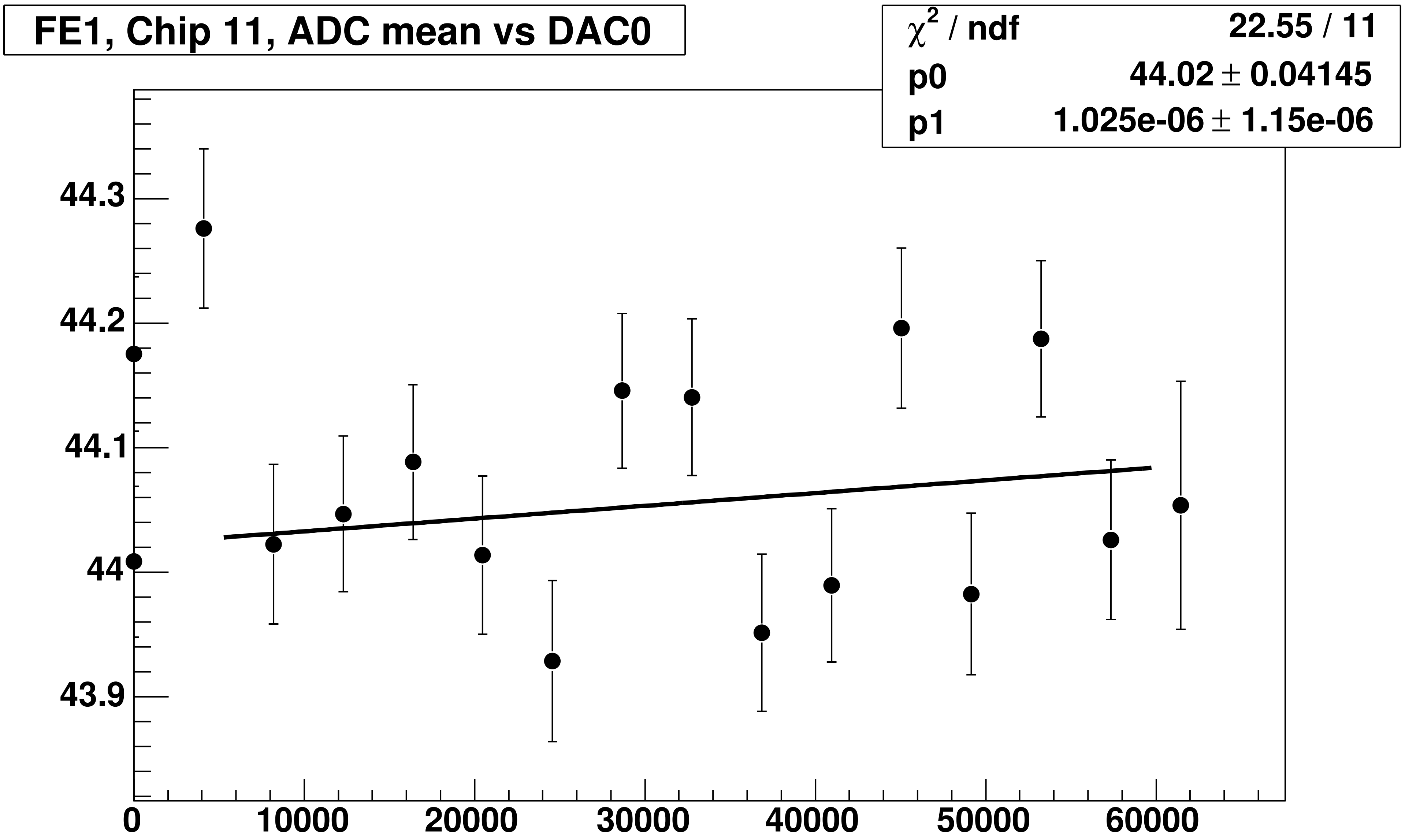

FE1, Chip 10, ADC noise vs DAC0
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000


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

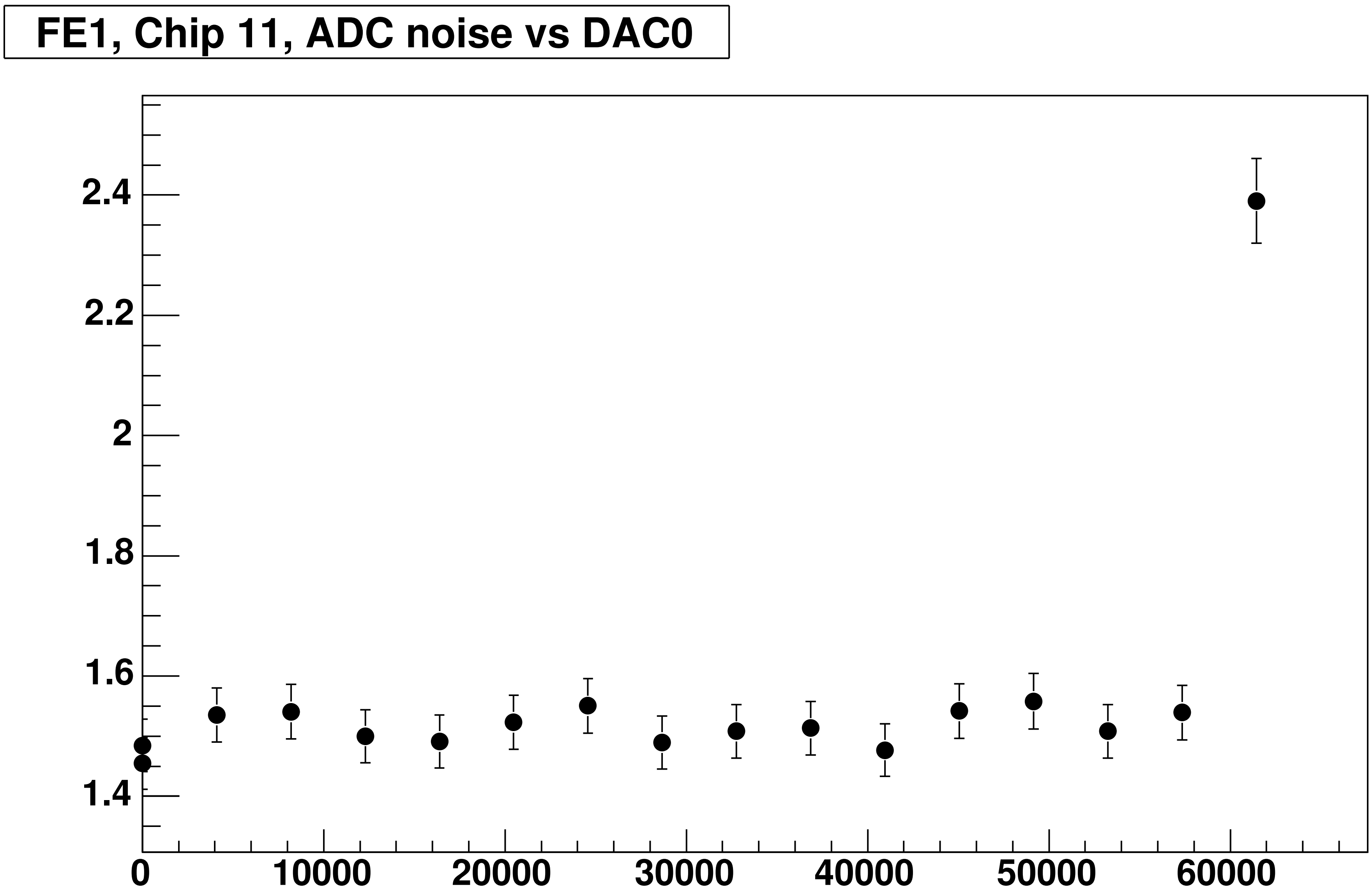

FE1, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1611 / 11
p0 43.93 ± 0.0426
p1 0.4494 ± 1.357e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


FE1, Chip 10, ADC noise vs DAC1
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

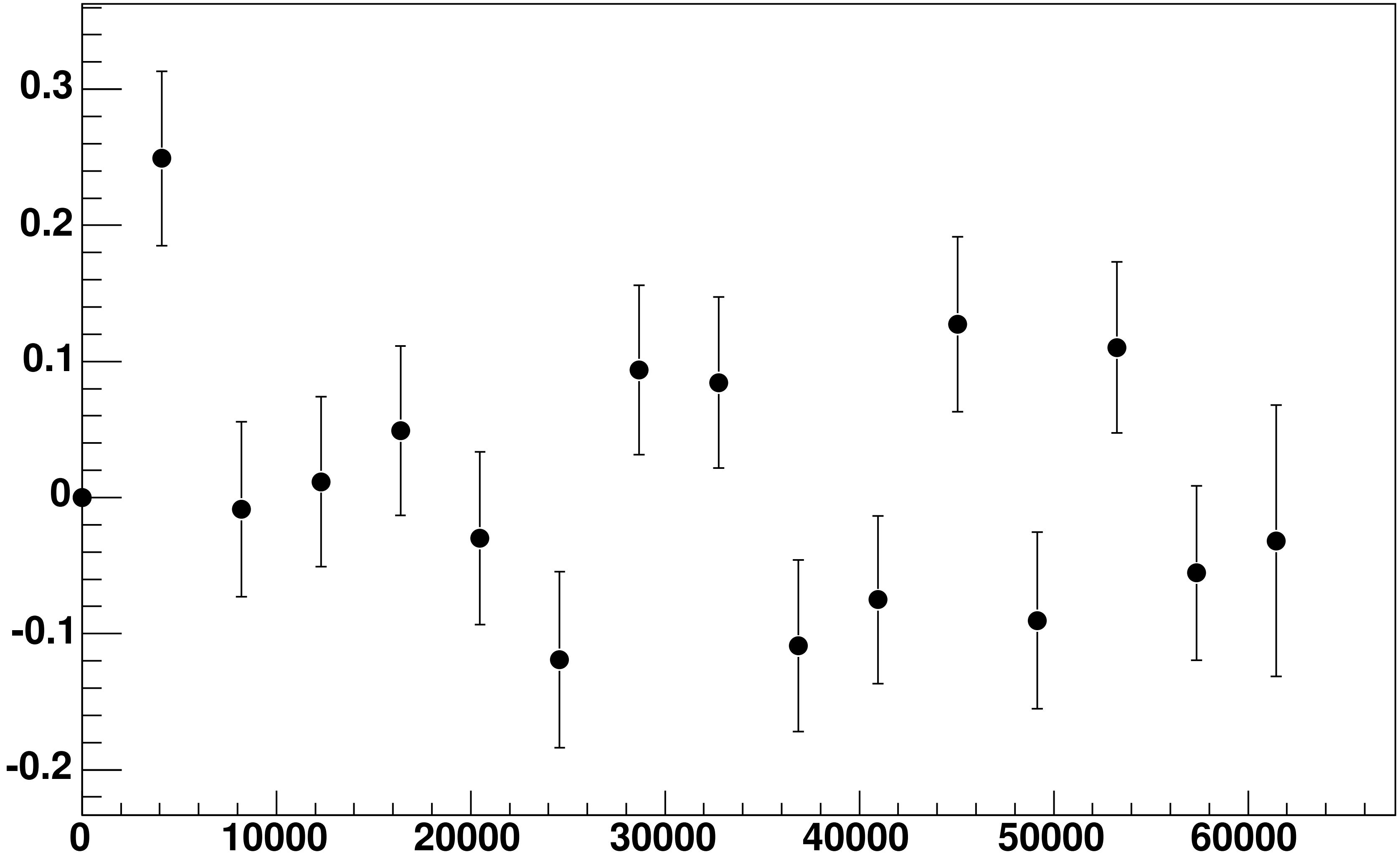

FE1, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

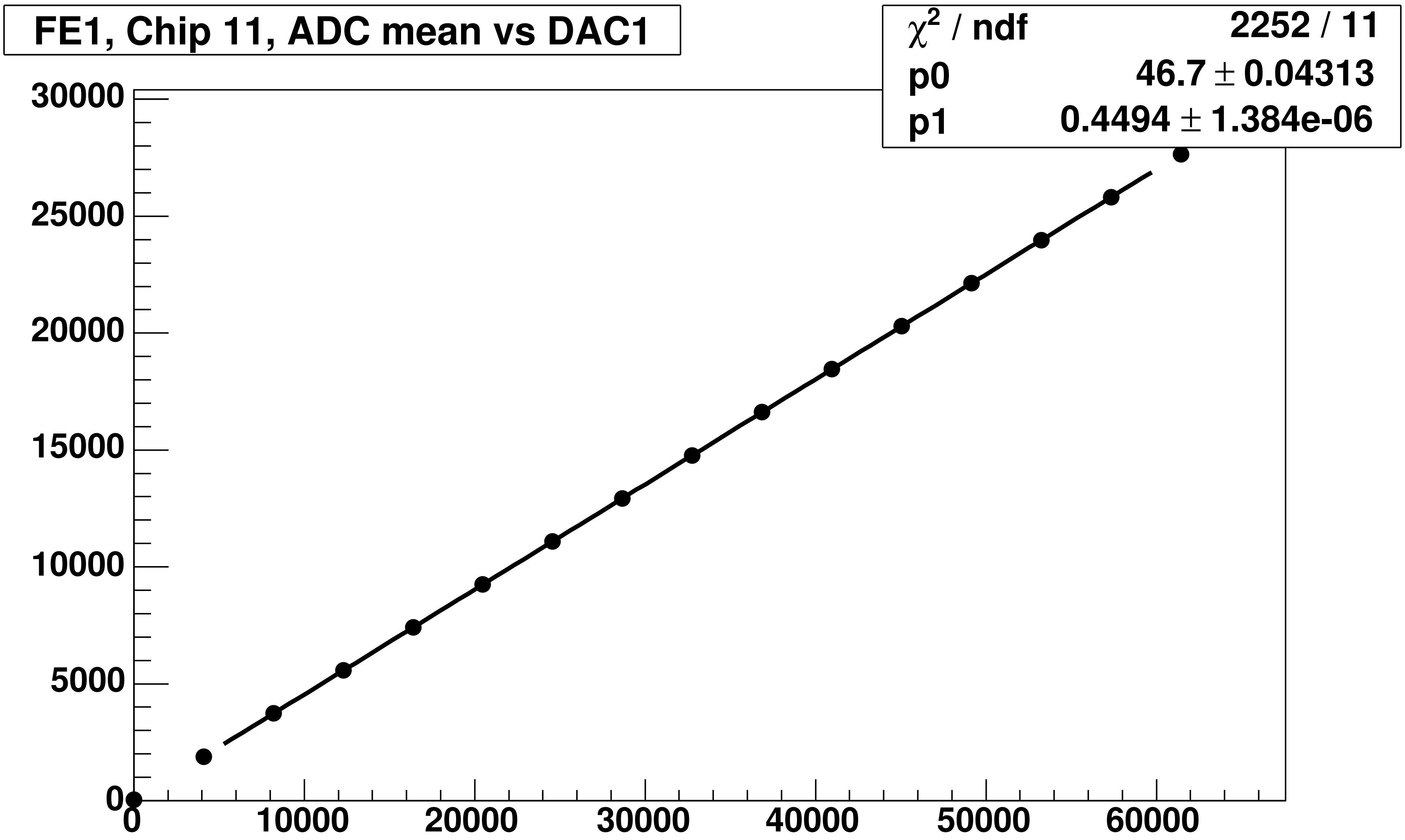


FE1, Chip 11, ADC mean vs DAC0
χ2 / ndf 22.55 / 11
p0 44.02 ± 0.04145
p1 1.025e-06 ± 1.15e-06
44.3
44.2
44.1
44
43.9
0
10000
20000
30000
40000
50000
60000

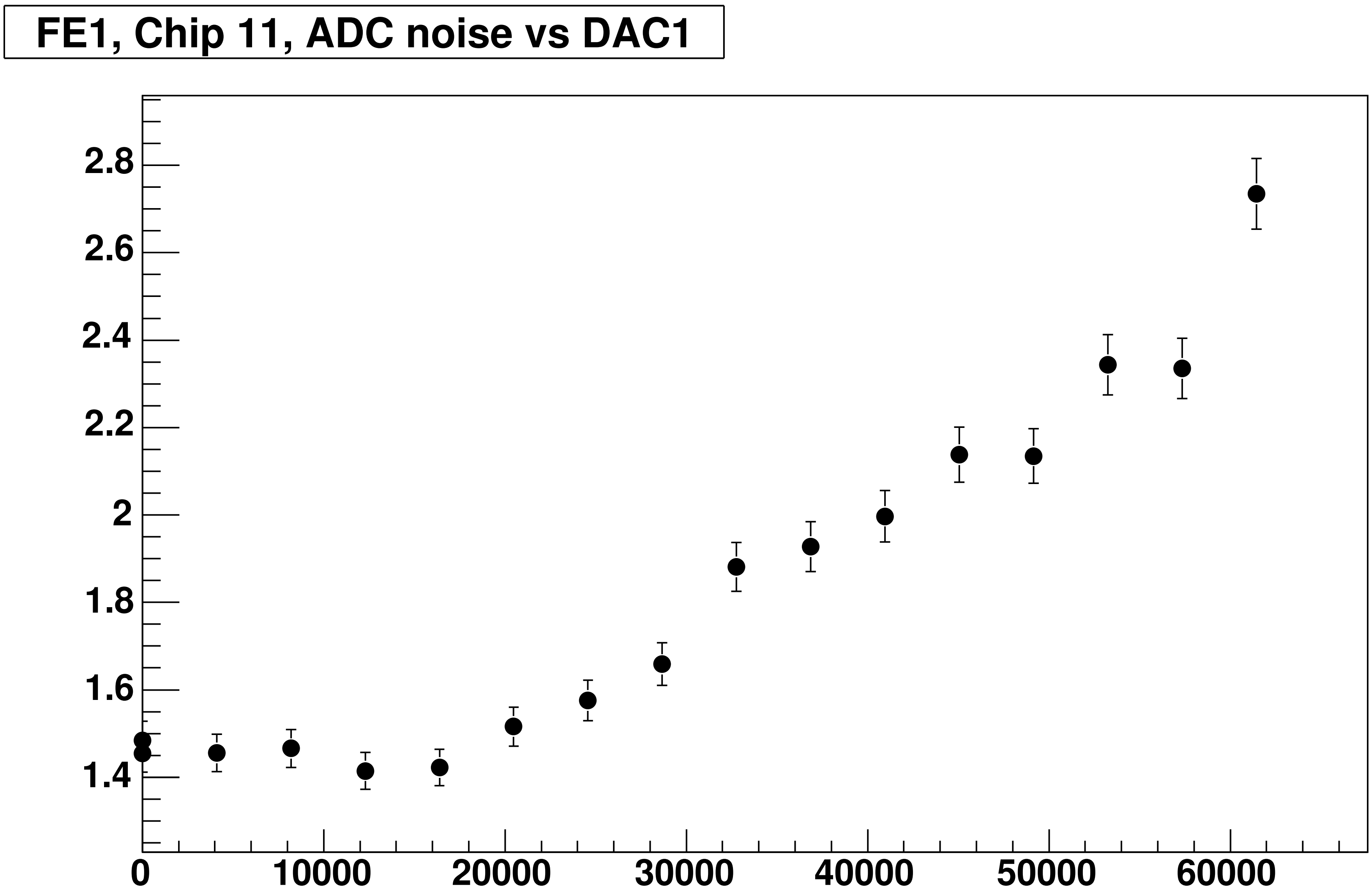

FE1, Chip 11, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

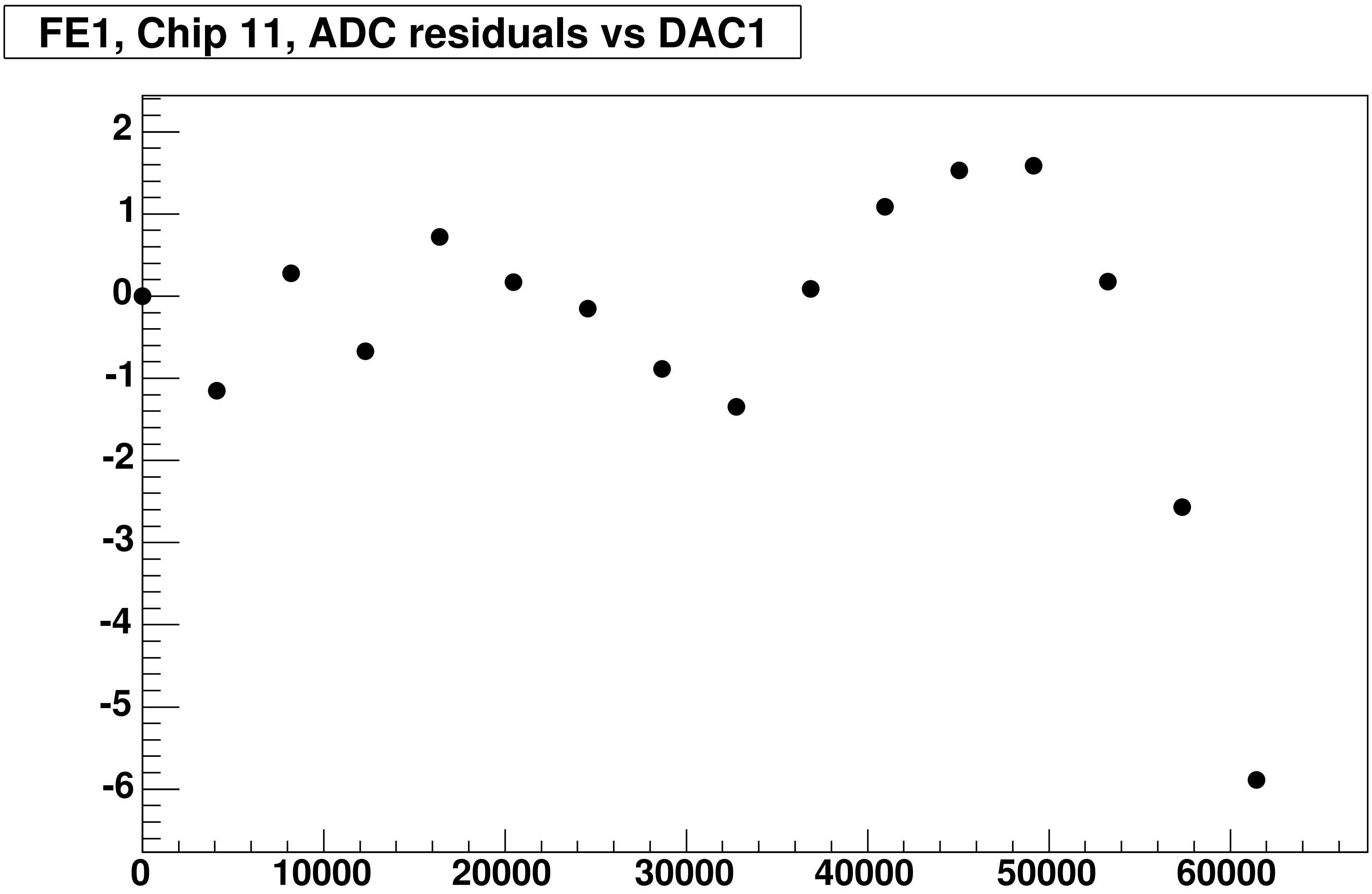
FE1, Chip 11, ADC residuals vs DAC0

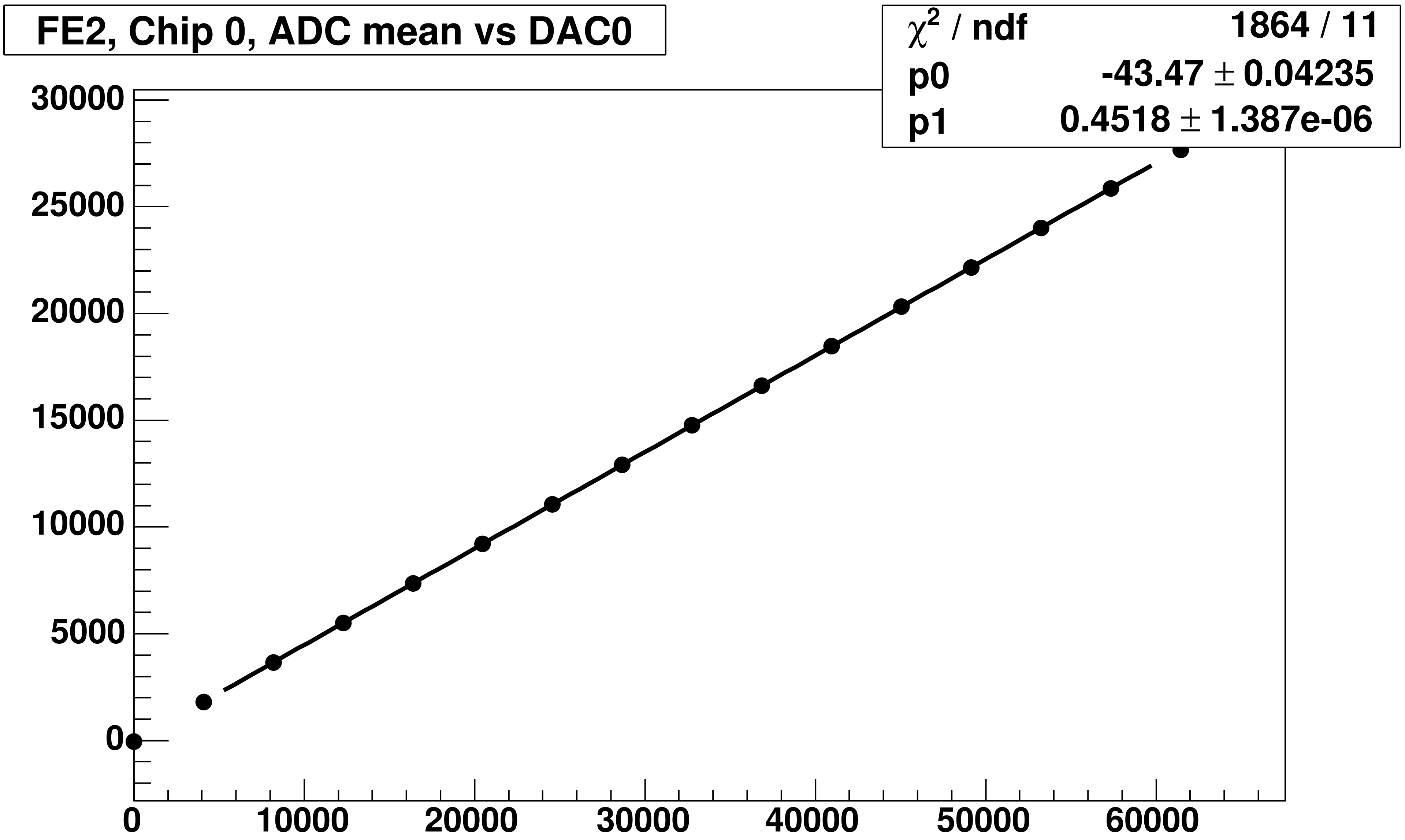


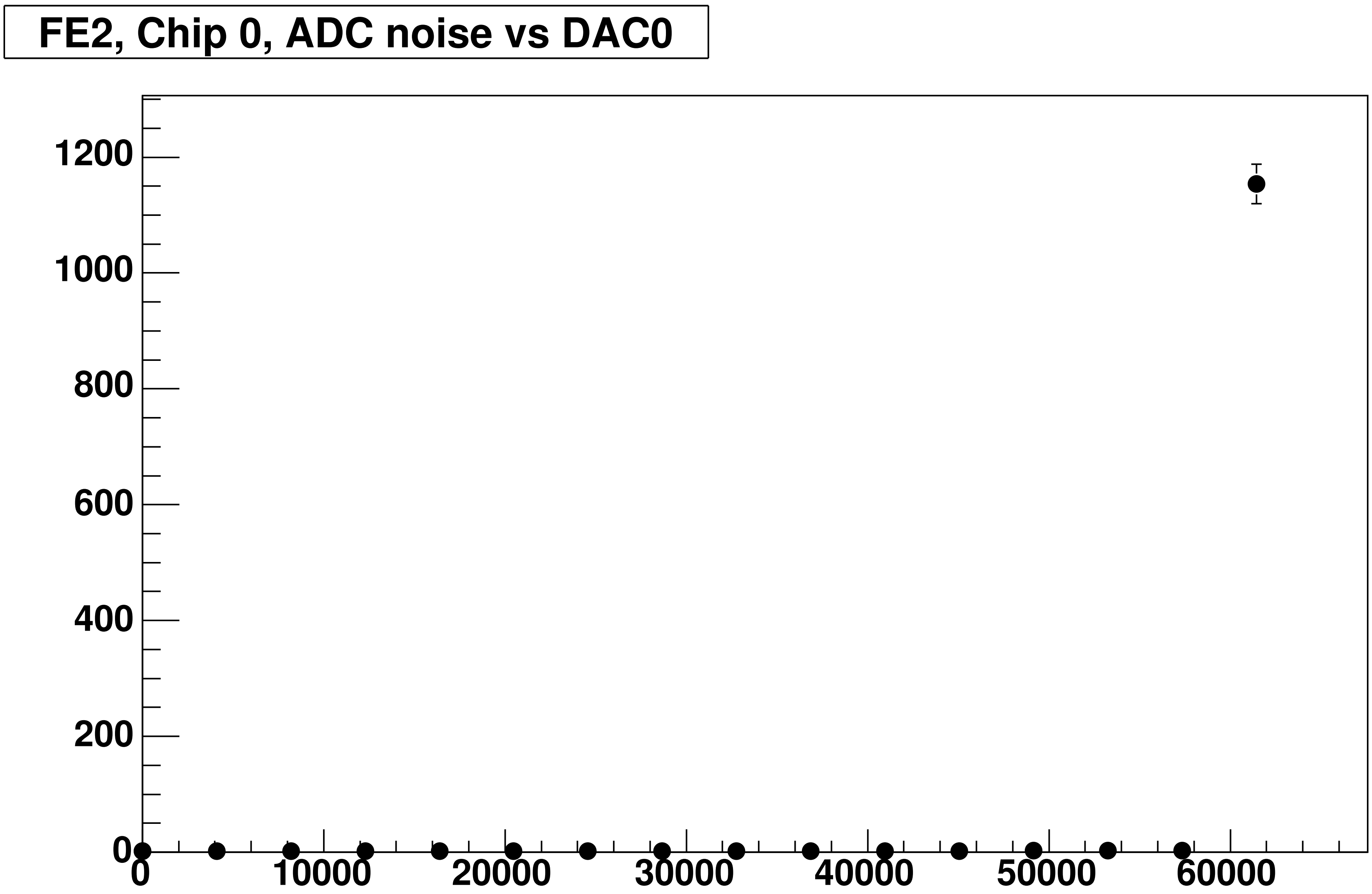


FE1, Chip 11, ADC mean vs DAC1
χ^2 / ndf 2252 / 11
p0 46.7 ± 0.04313
p1 0.4494 ± 1.384e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

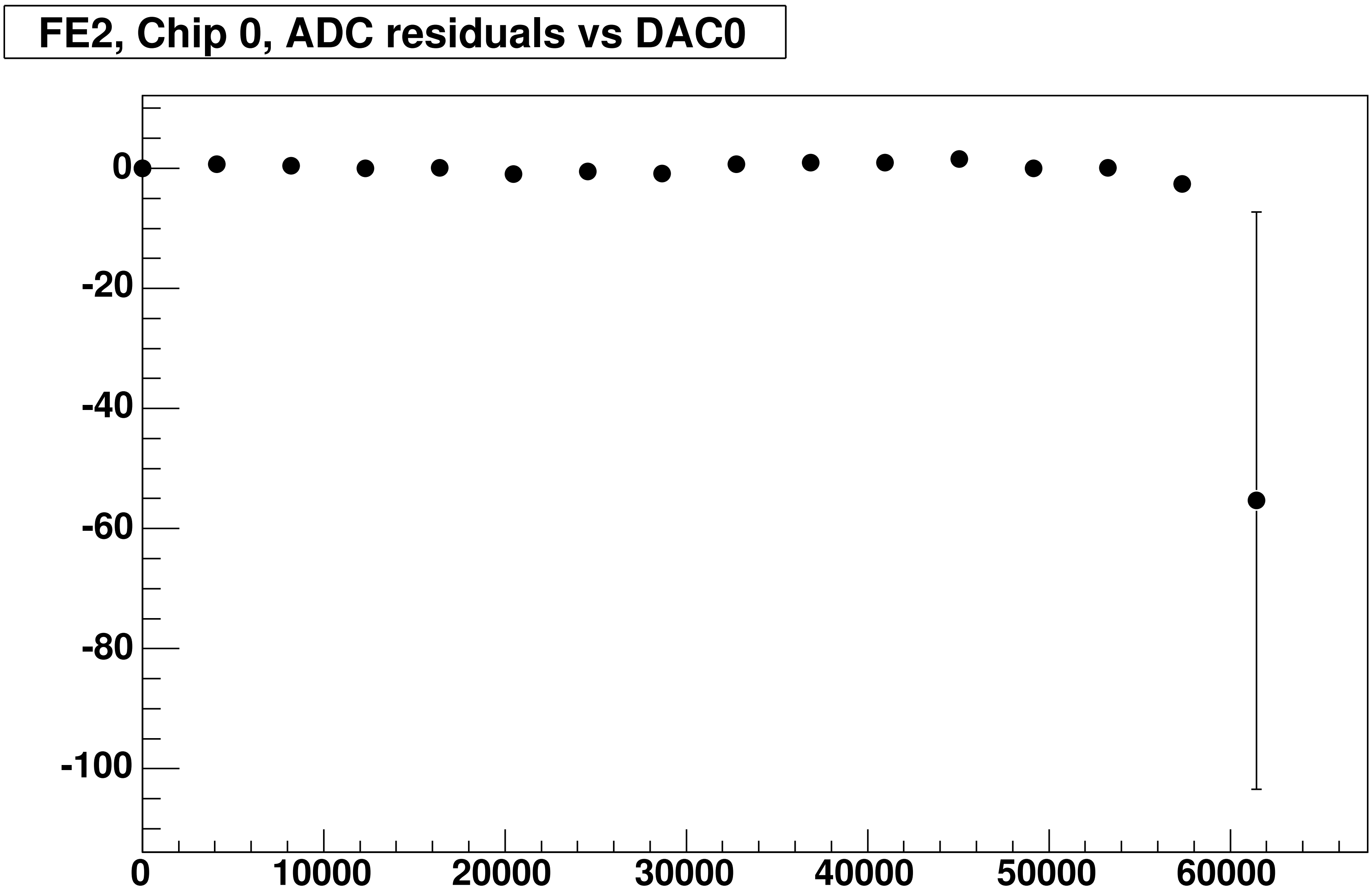

FE1, Chip 11, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

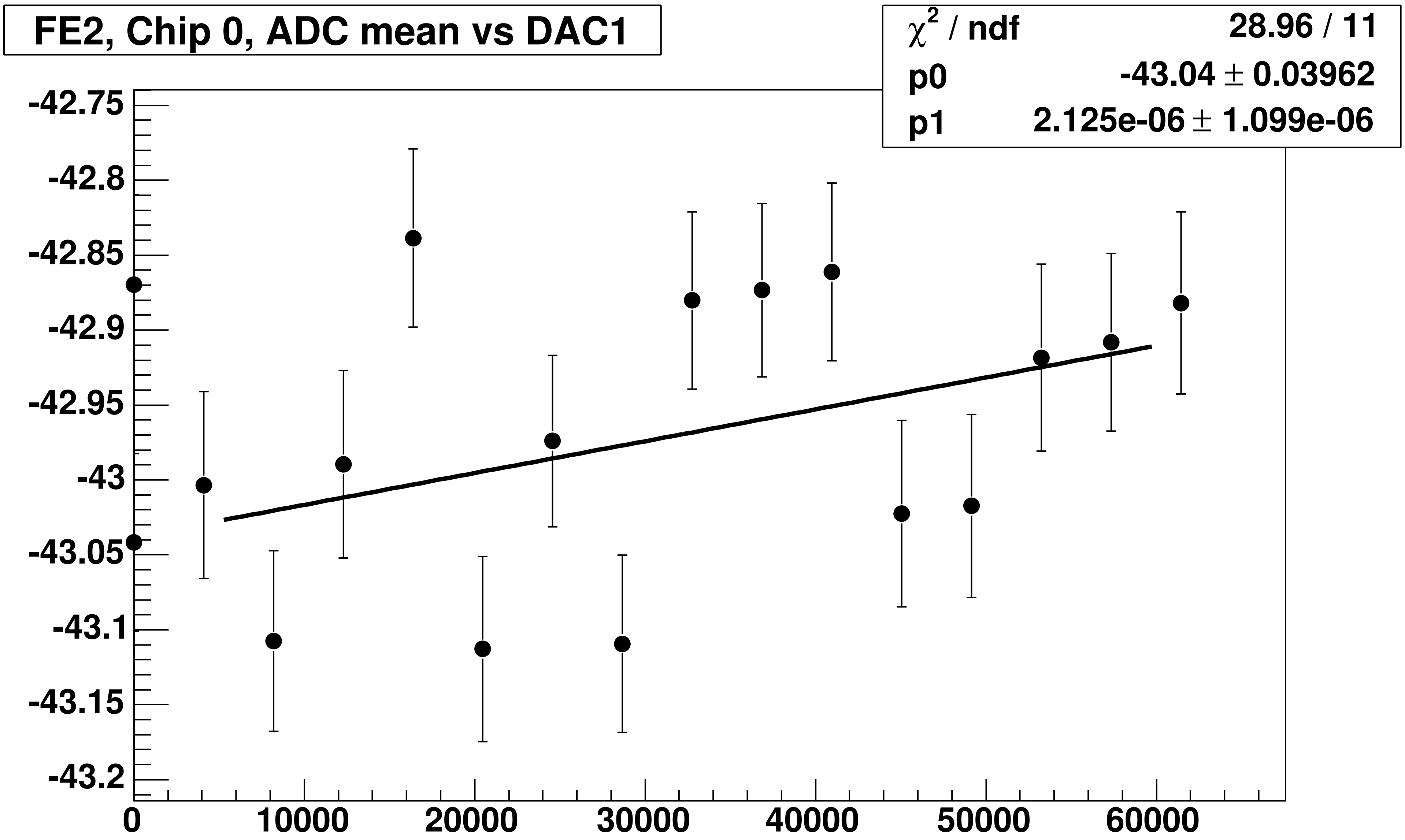

FE1, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

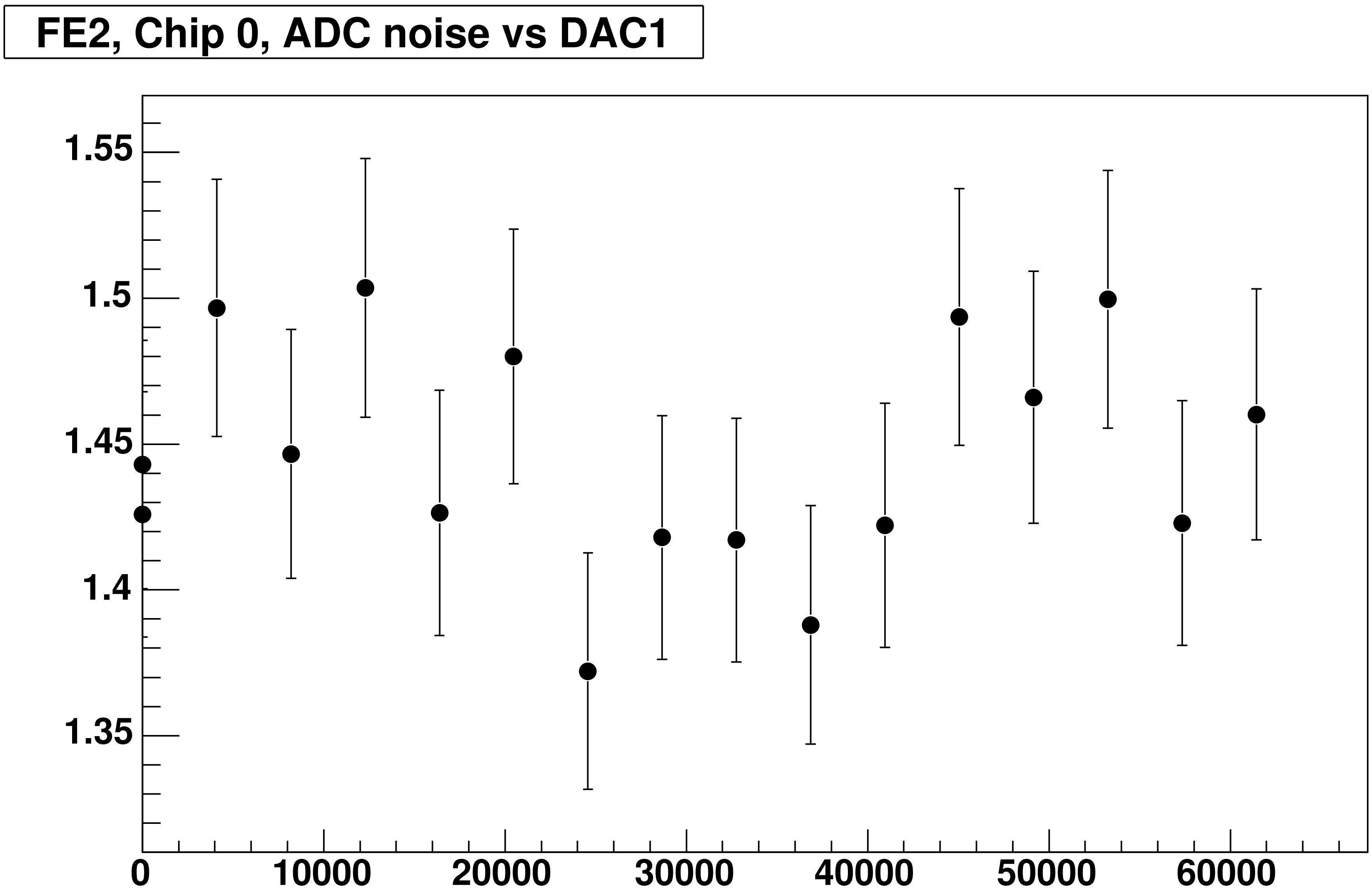

FE2, Chip 0, ADC mean vs DAC0
χ2 / ndf 1864 / 11
p0 -43.47 ± 0.04235
p1 0.4518 ± 1.387e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



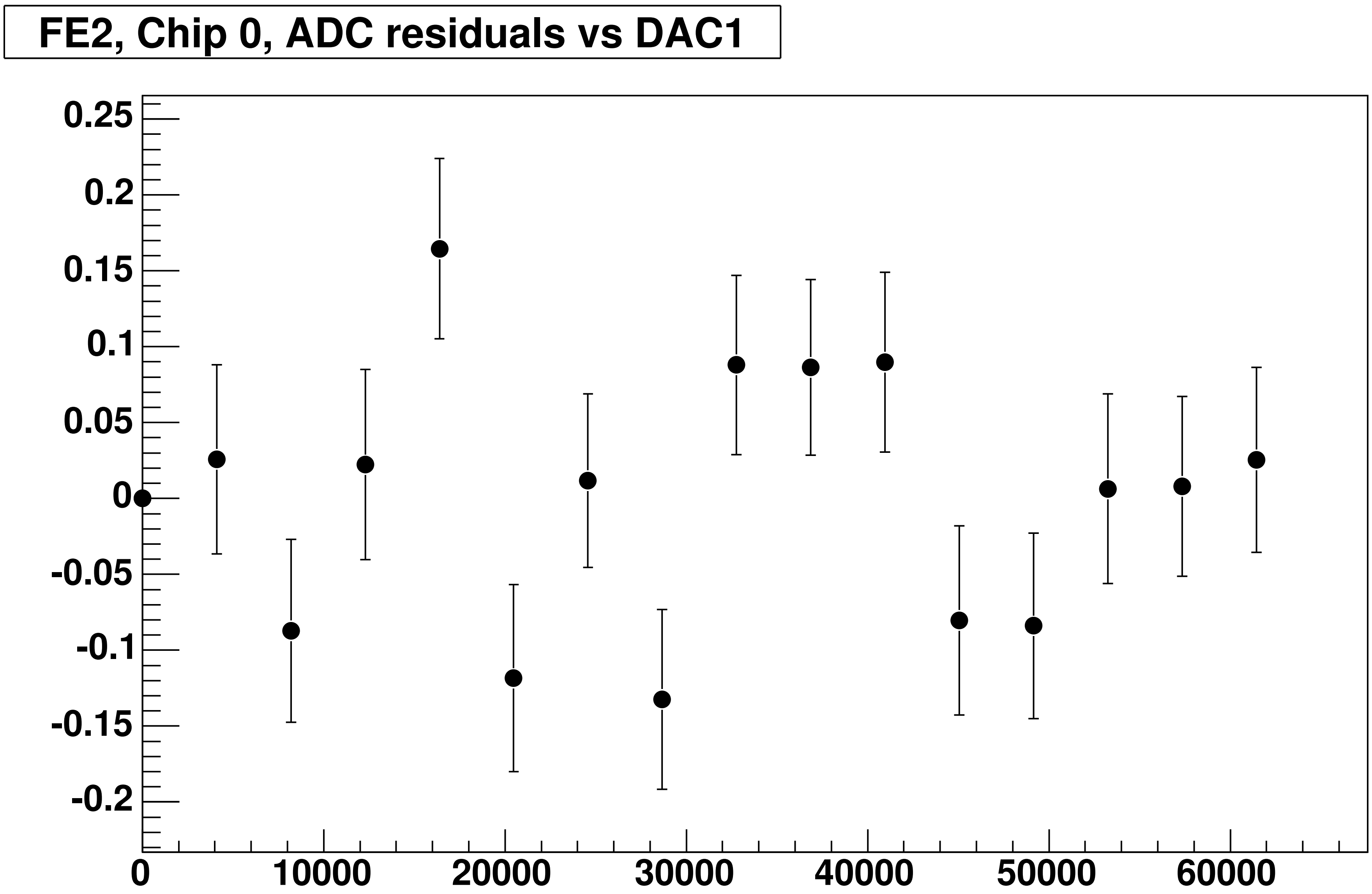
FE2, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

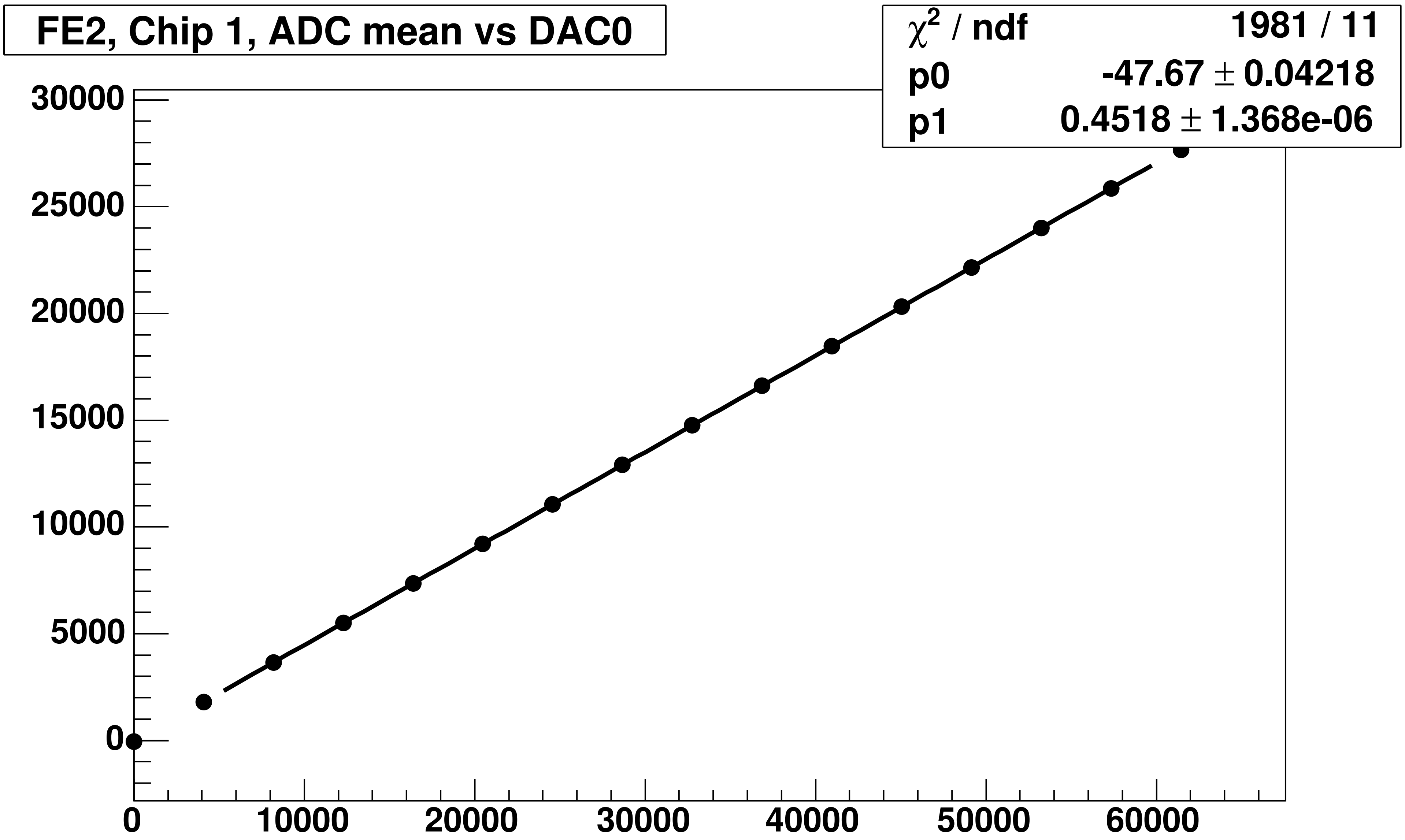

FE2, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

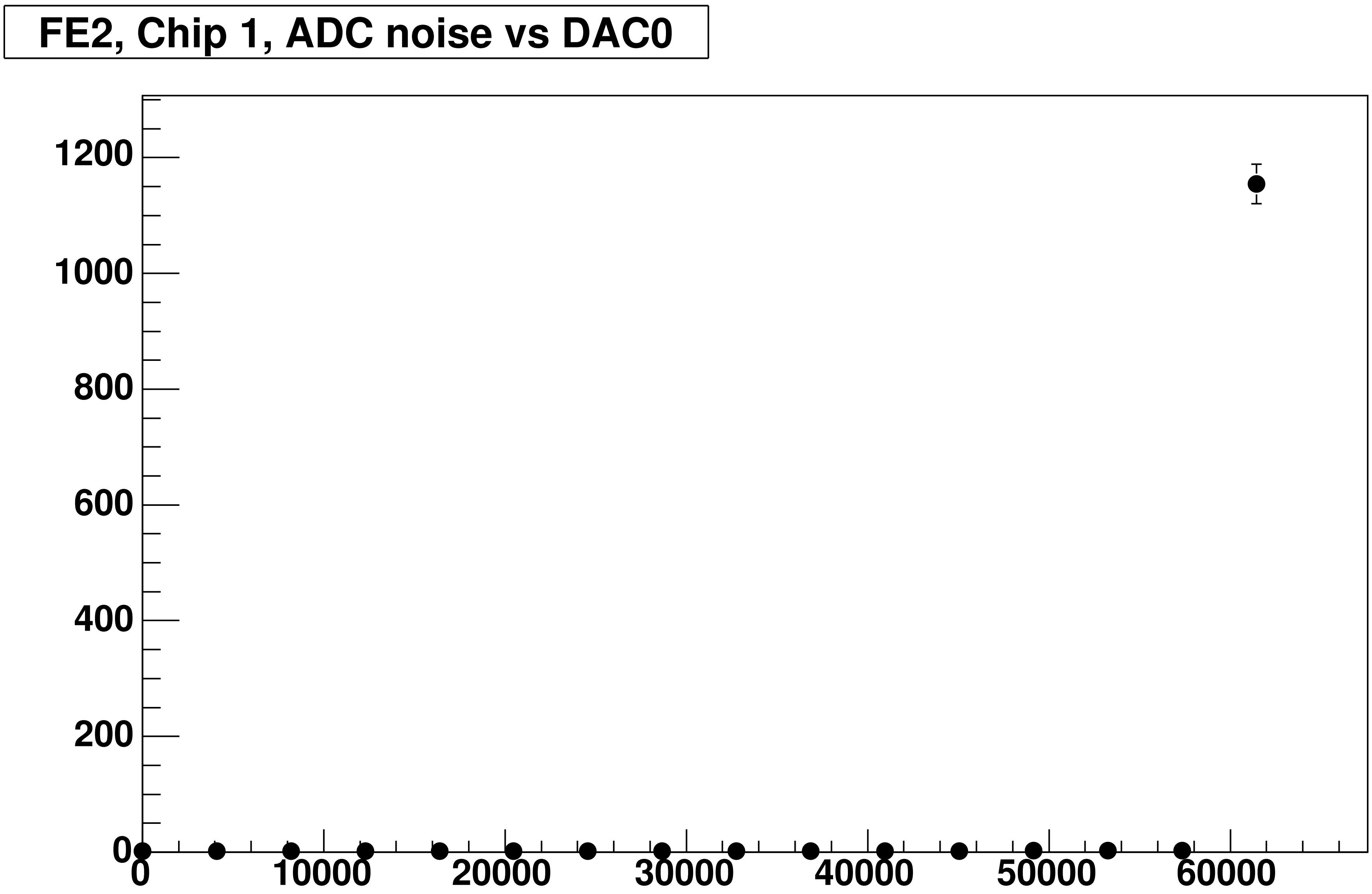

FE2, Chip 0, ADC mean vs DAC1
χ^2 / ndf 28.96 / 11
p0 -43.04 ± 0.03962
p1 2.125e-06 ± 1.099e-06
-42.75
-42.8
-42.85
-42.9
-42.95
-43
-43.05
-43.1
-43.15
-43.2
0
10000
20000
30000
40000
50000
60000



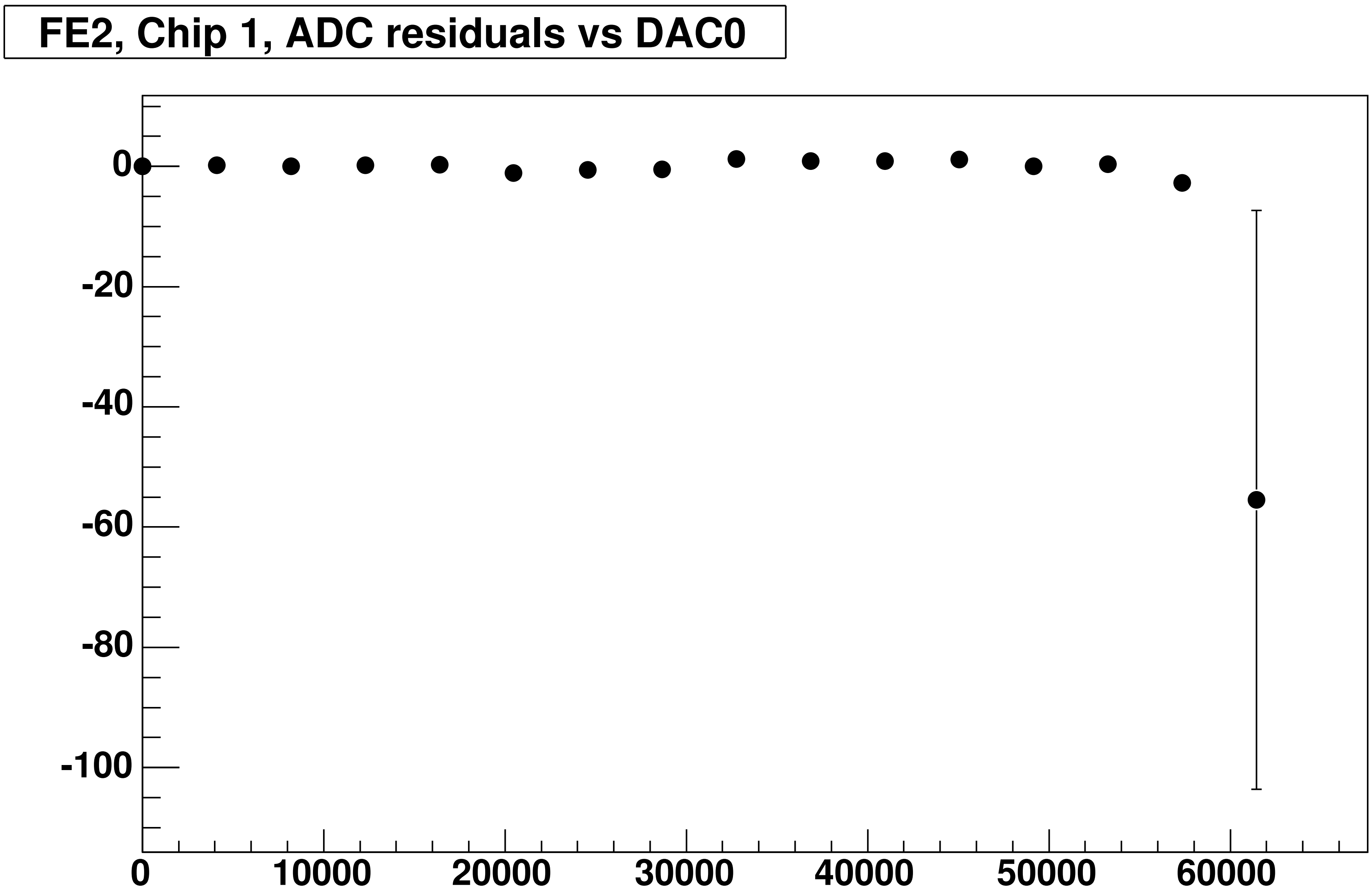
FE2, Chip 0, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

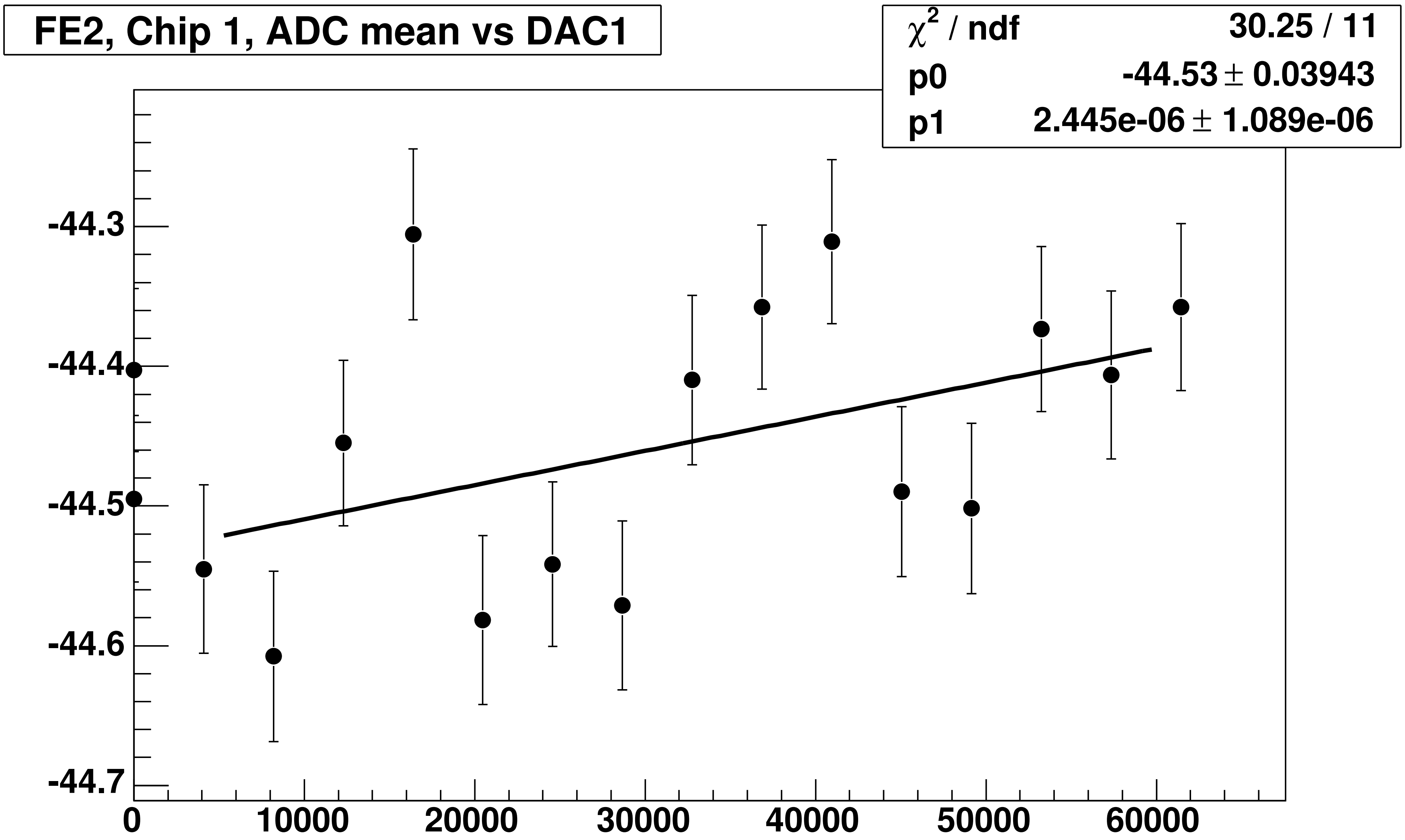

FE2, Chip 0, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

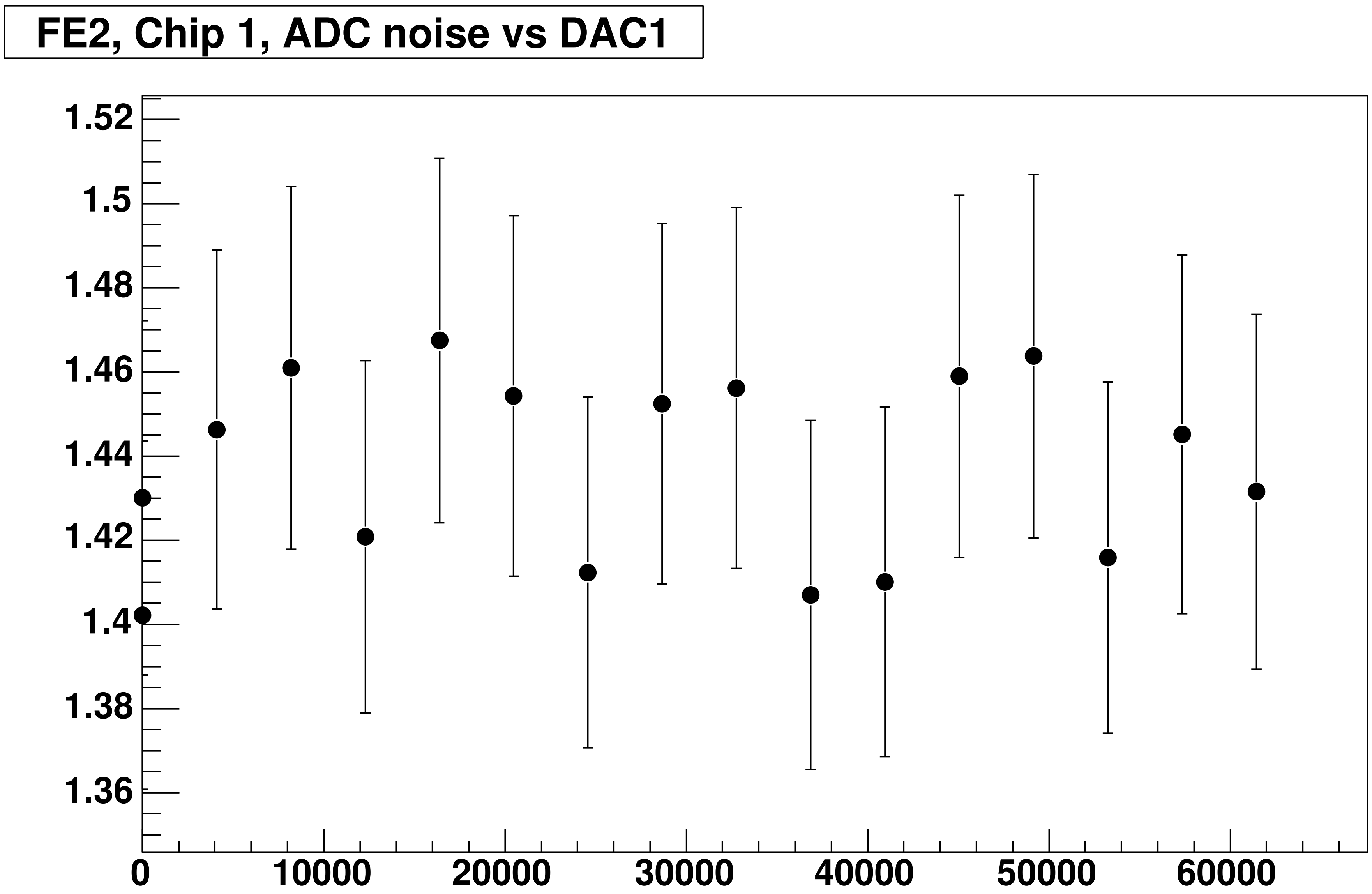

FE2, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1981 / 11
p0 -47.67 ± 0.04218
p1 0.4518 ± 1.368e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



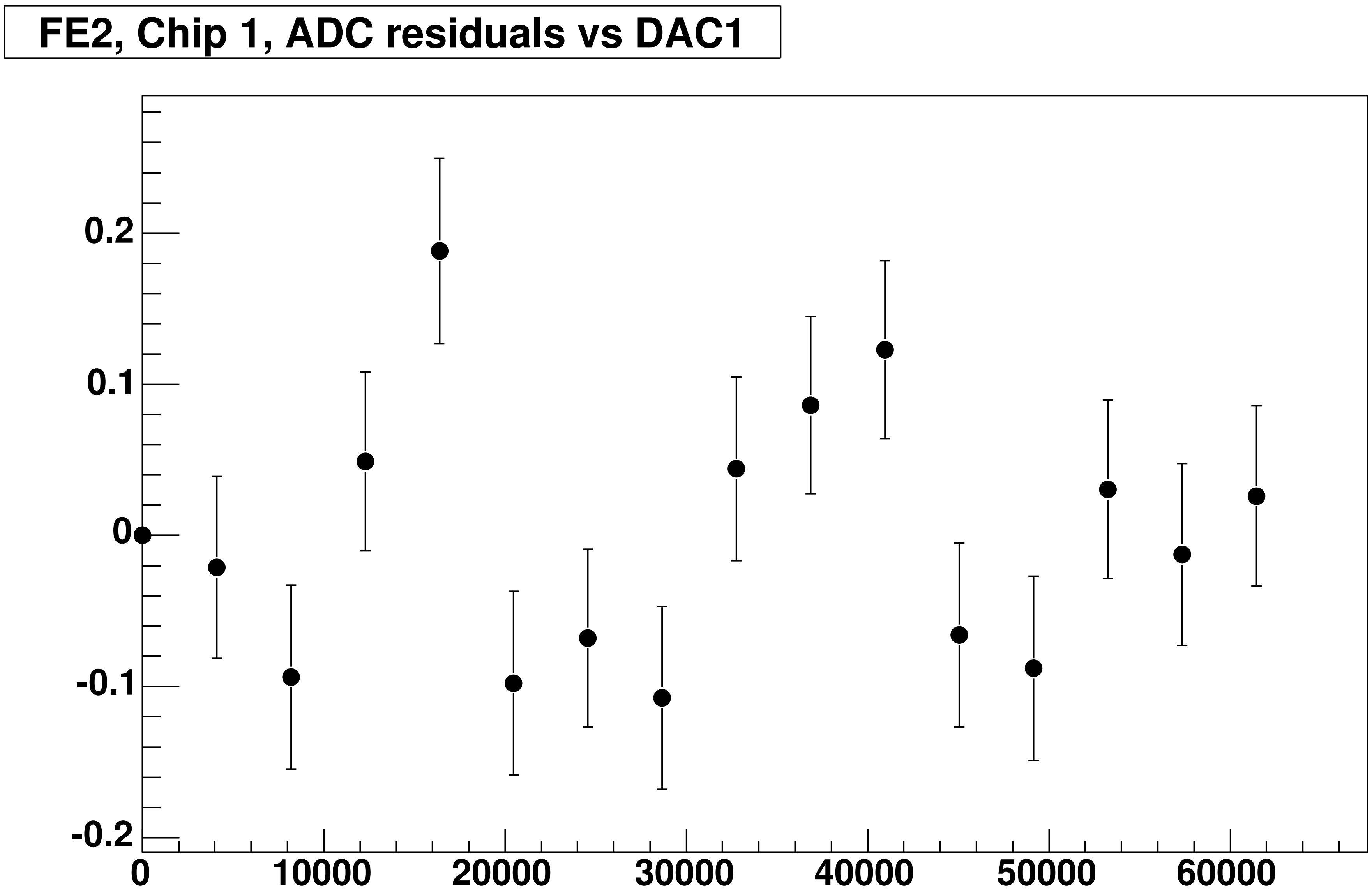
FE2, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

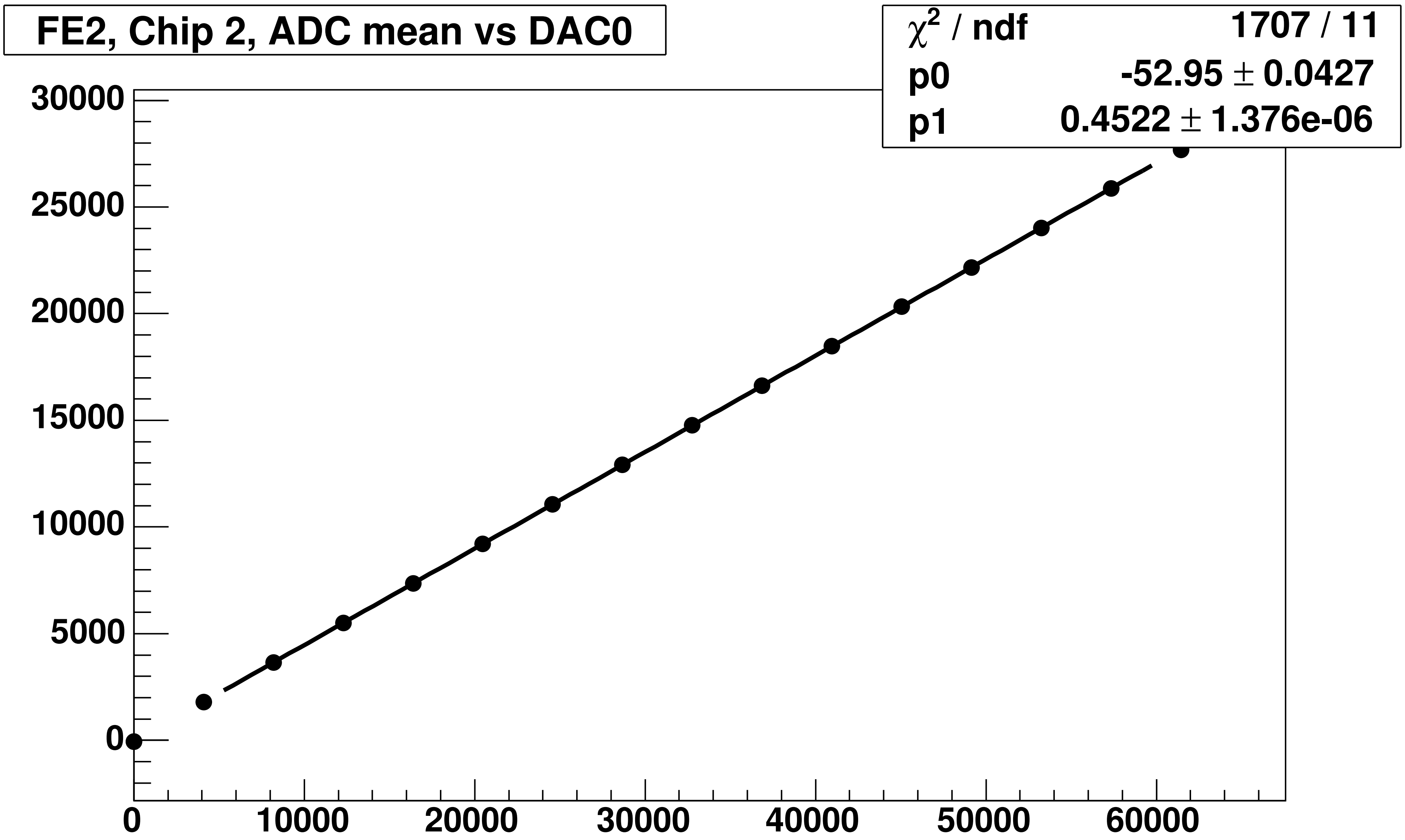

FE2, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE2, Chip 1, ADC mean vs DAC1
χ^2 / ndf 30.25 / 11
p0 -44.53 ± 0.03943
p1 2.445e-06 ± 1.089e-06
-44.3
-44.4
-44.5
-44.6
-44.7
0
10000
20000
30000
40000
50000
60000

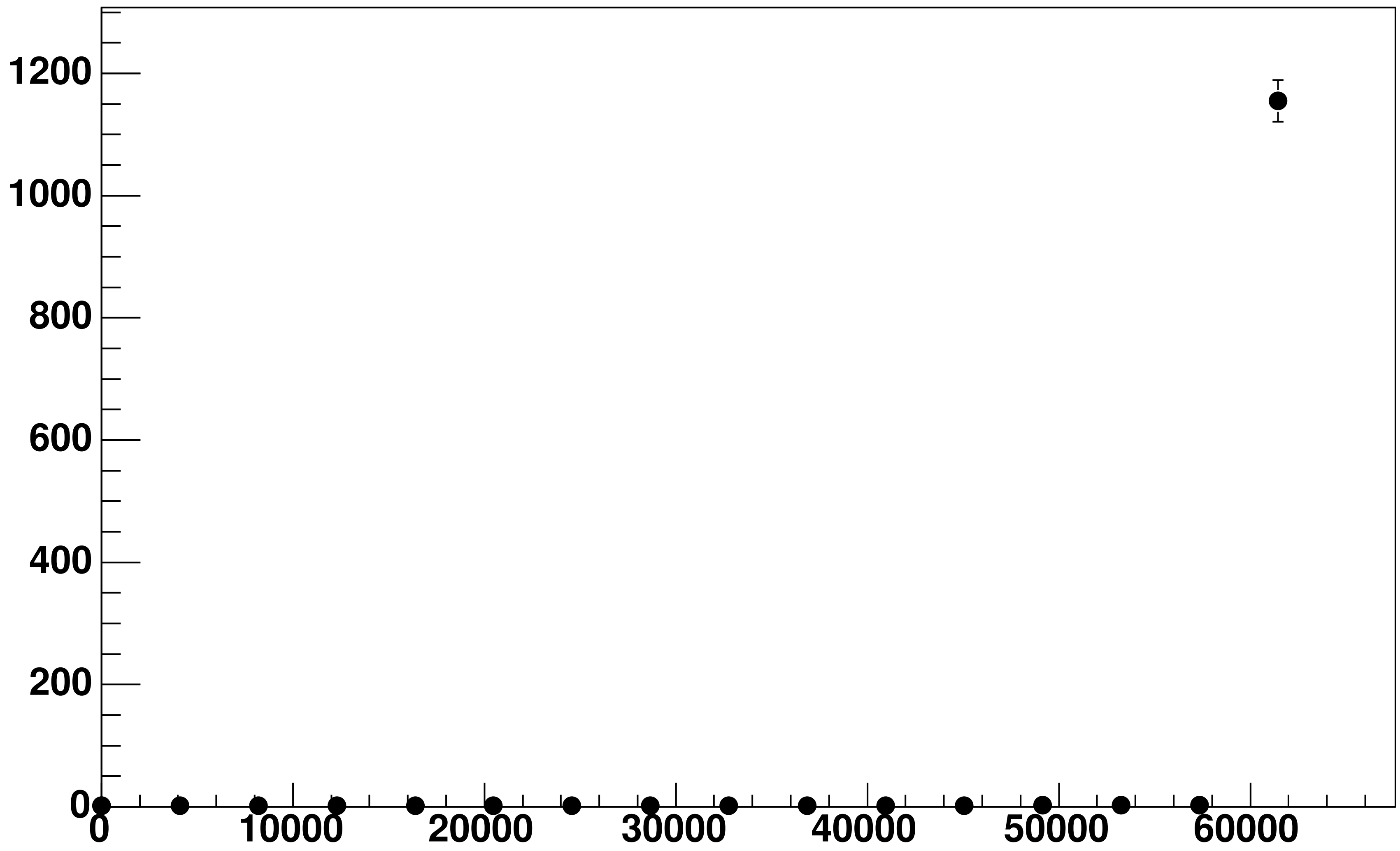


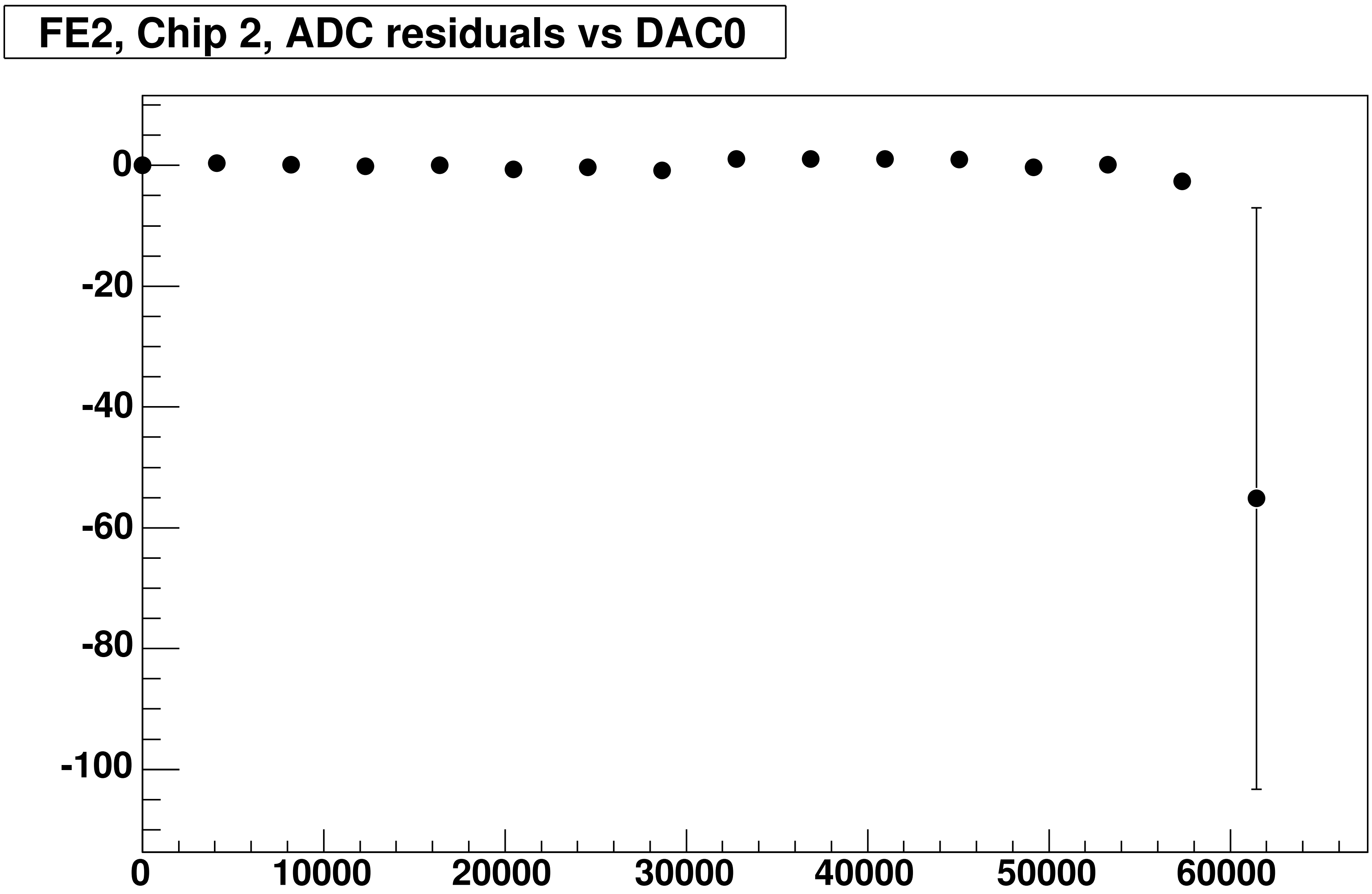
FE2, Chip 1, ADC noise vs DAC1
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
0
10000
20000
30000
40000
50000
60000

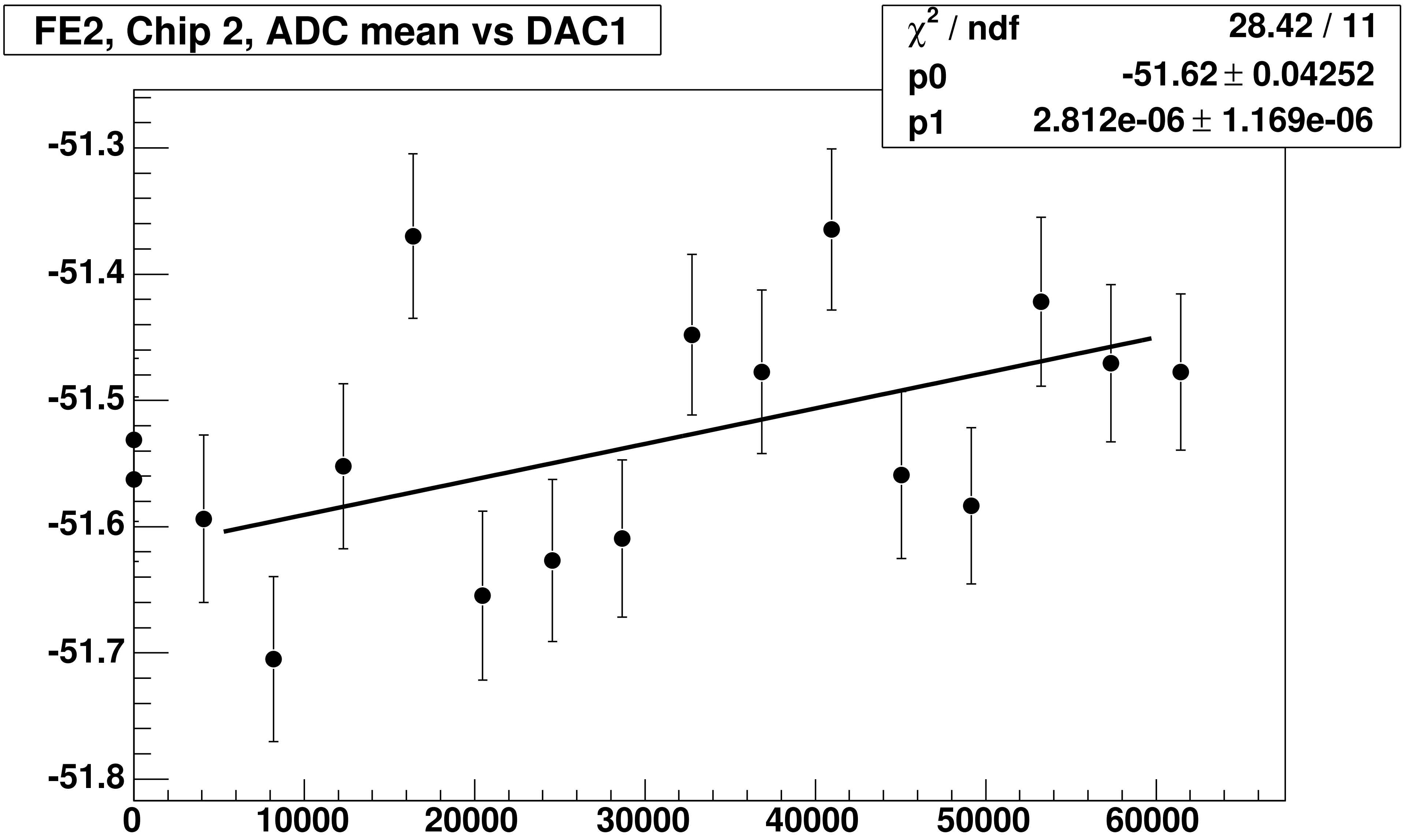

FE2, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

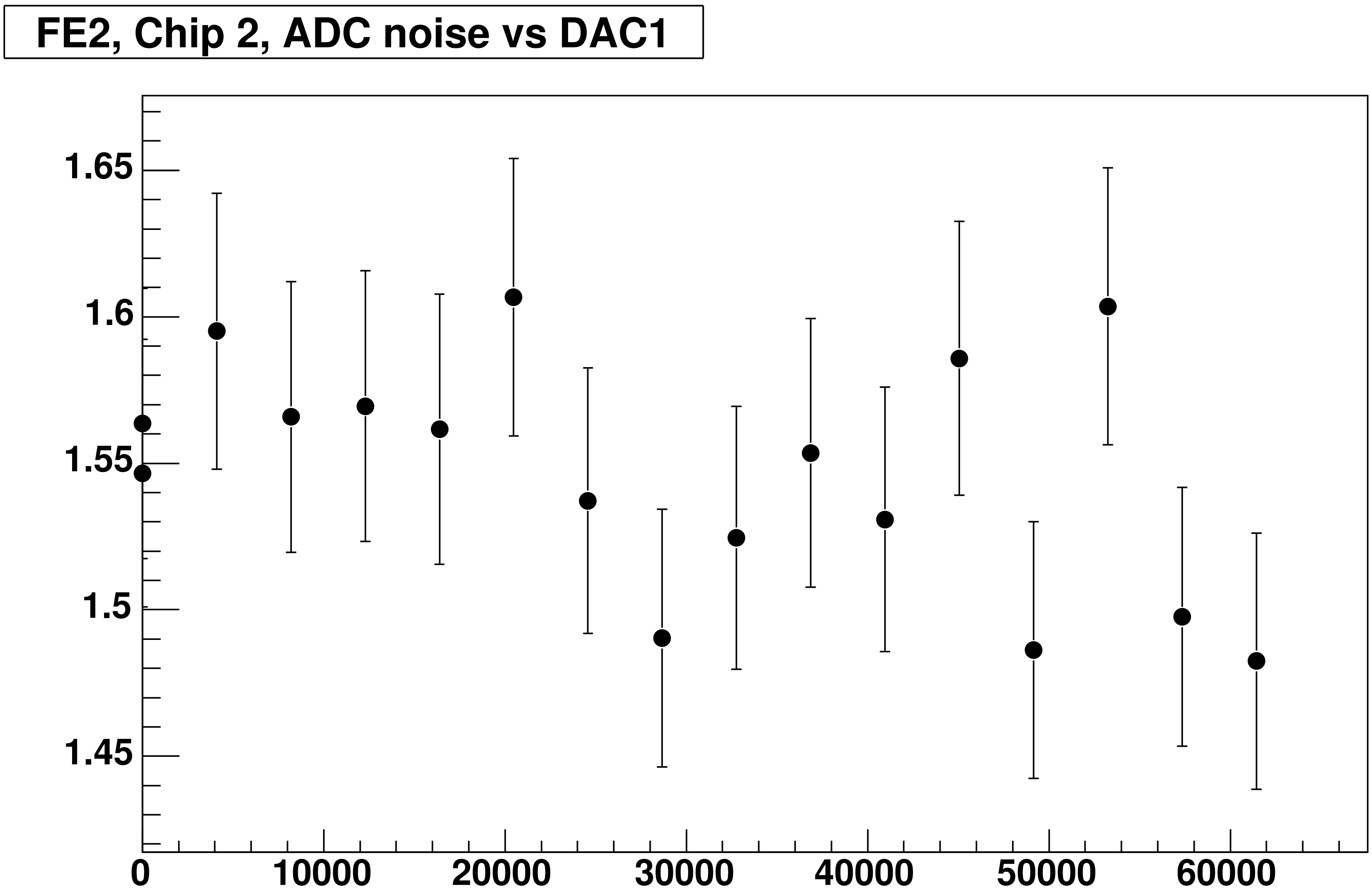

FE2, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1707 / 11
p0 -52.95 ± 0.0427
p1 0.4522 ± 1.376e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

FE2, Chip 2, ADC noise vs DAC0

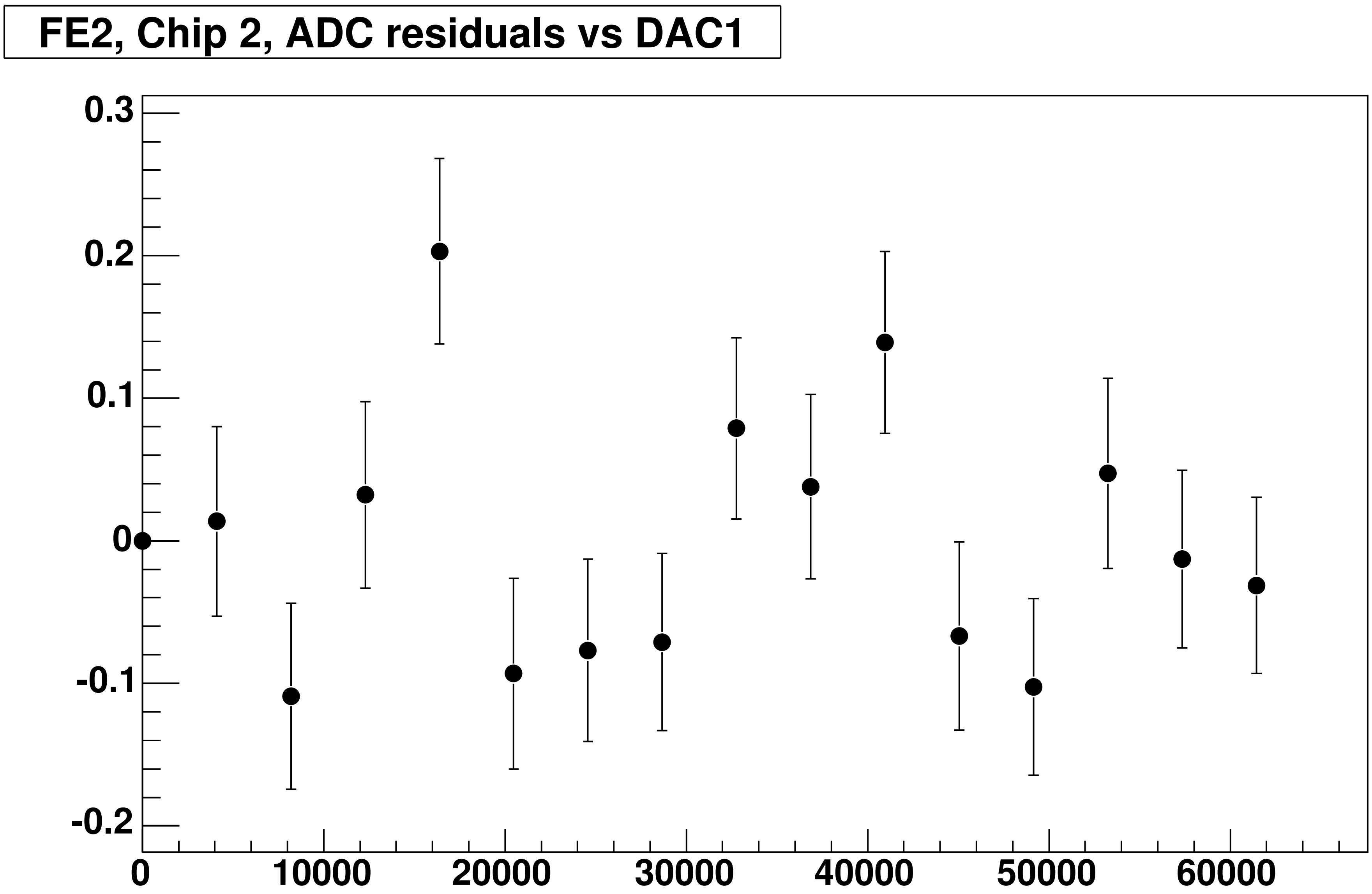


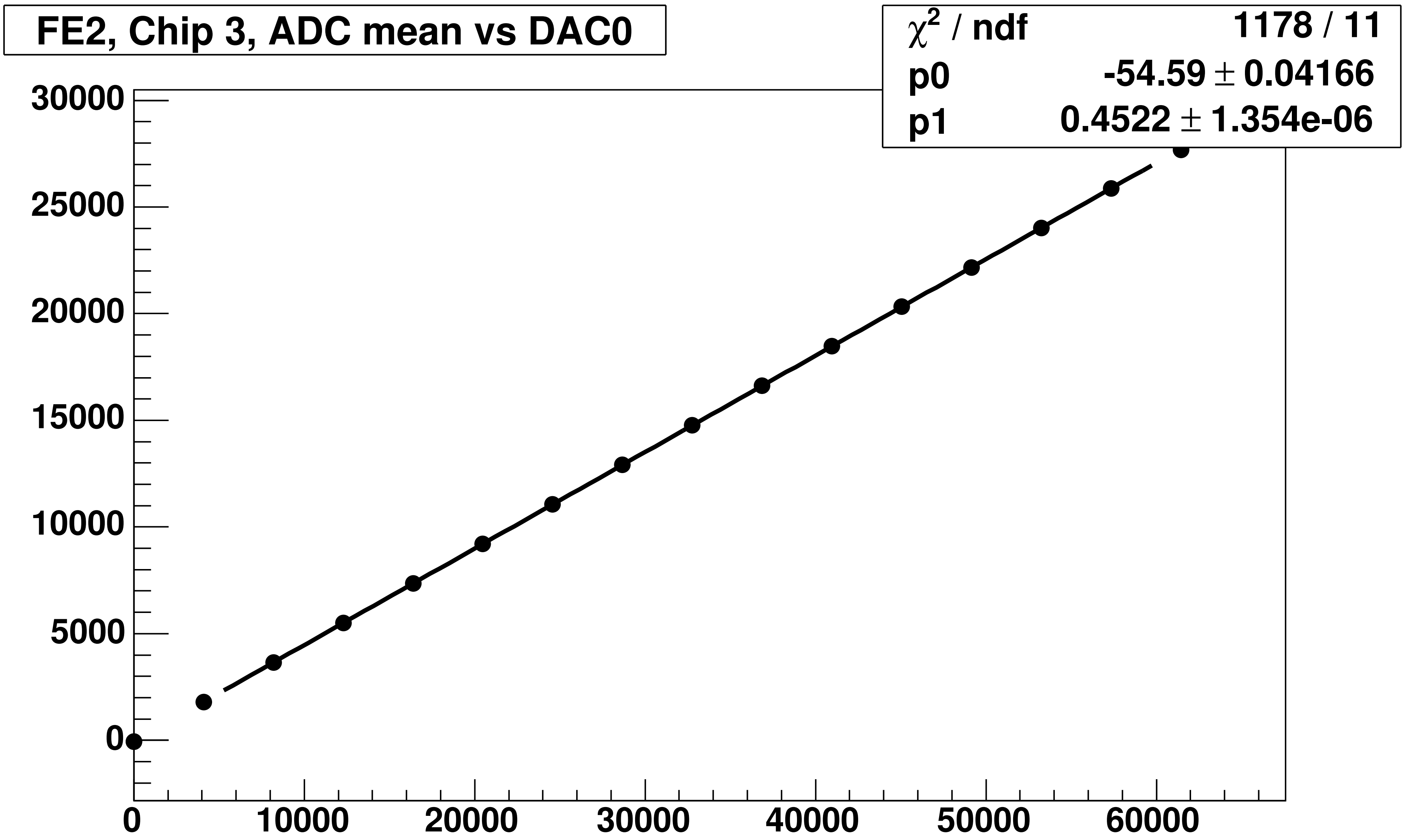

FE2, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

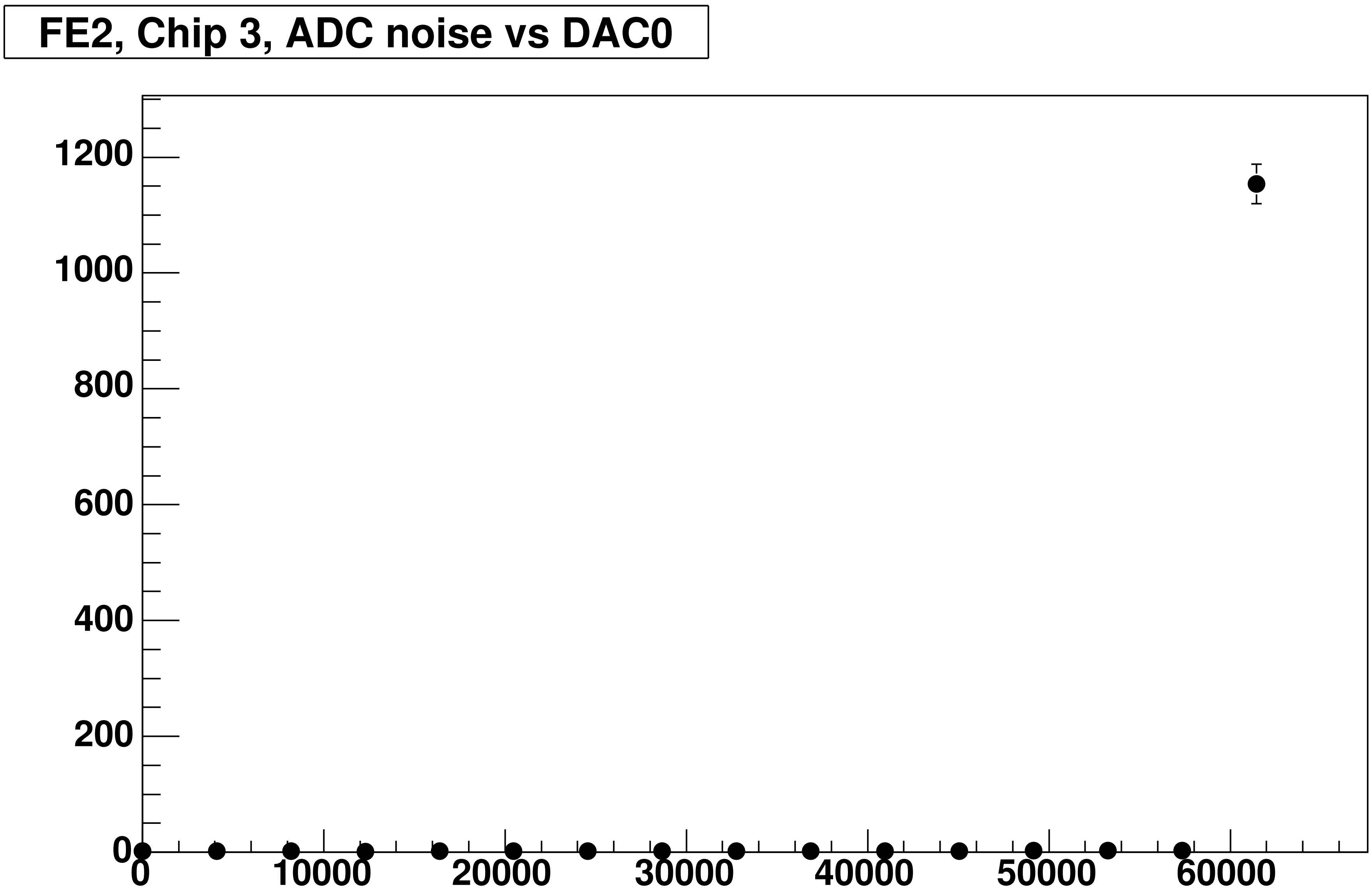

FE2, Chip 2, ADC mean vs DAC1
χ^2 / ndf 28.42 / 11
p0 -51.62 ± 0.04252
p1 2.812e-06 ± 1.169e-06
-51.3
-51.4
-51.5
-51.6
-51.7
-51.8
0
10000
20000
30000
40000
50000
60000



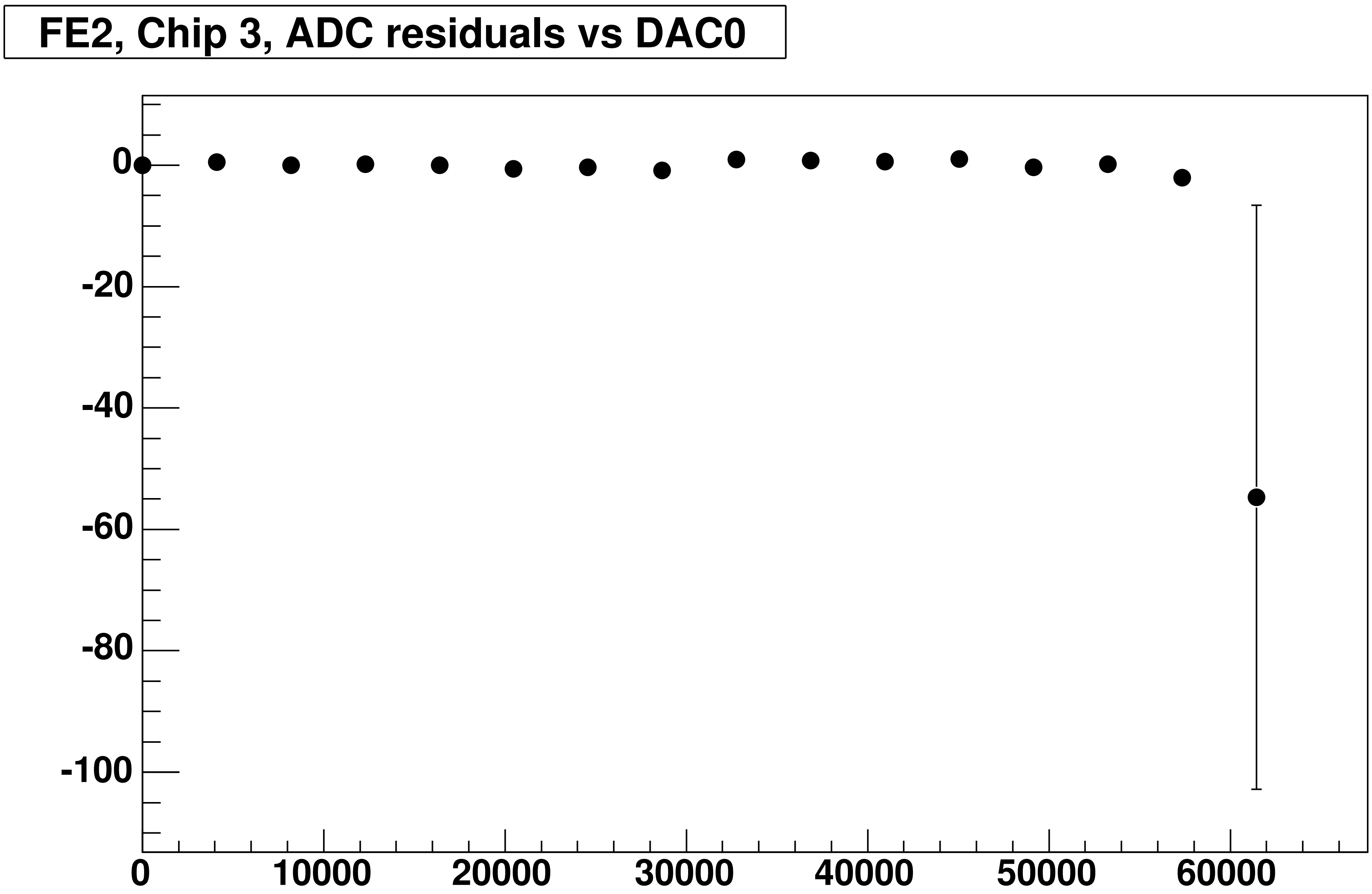
FE2, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000


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

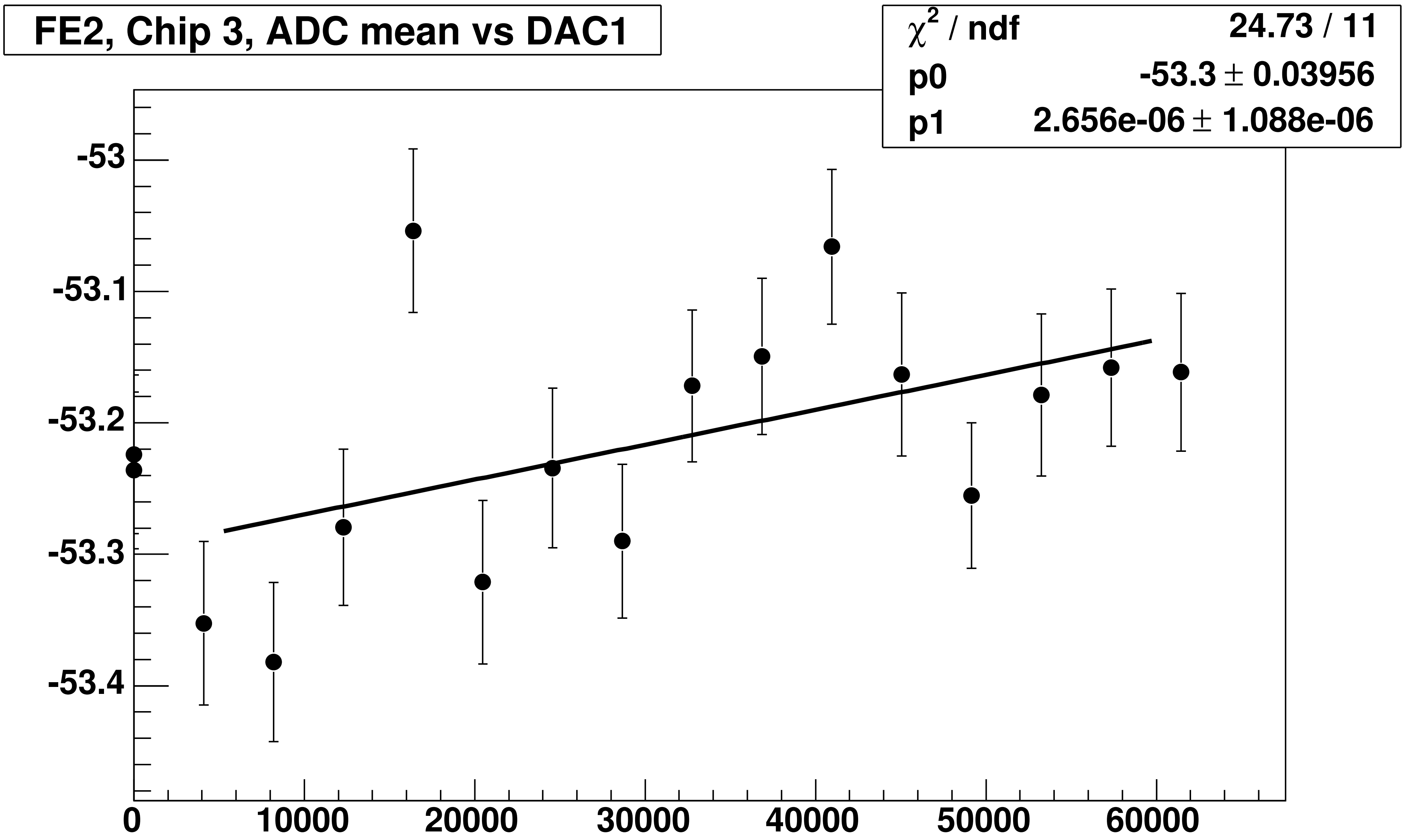

FE2, Chip 3, ADC mean vs DAC0
χ² / ndf 1178 / 11
p0 -54.59 ± 0.04166
p1 0.4522 ± 1.354e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



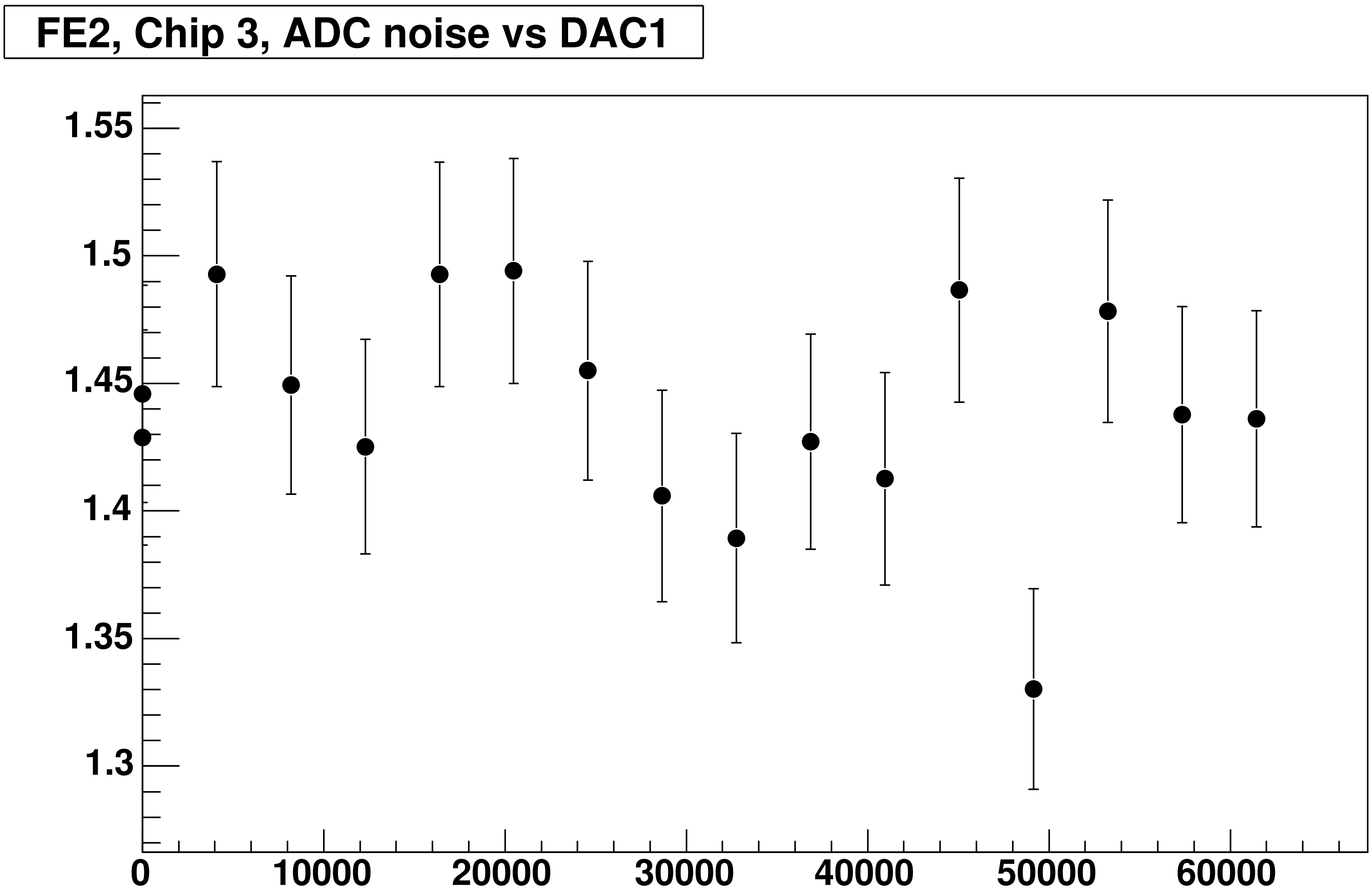
FE2, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



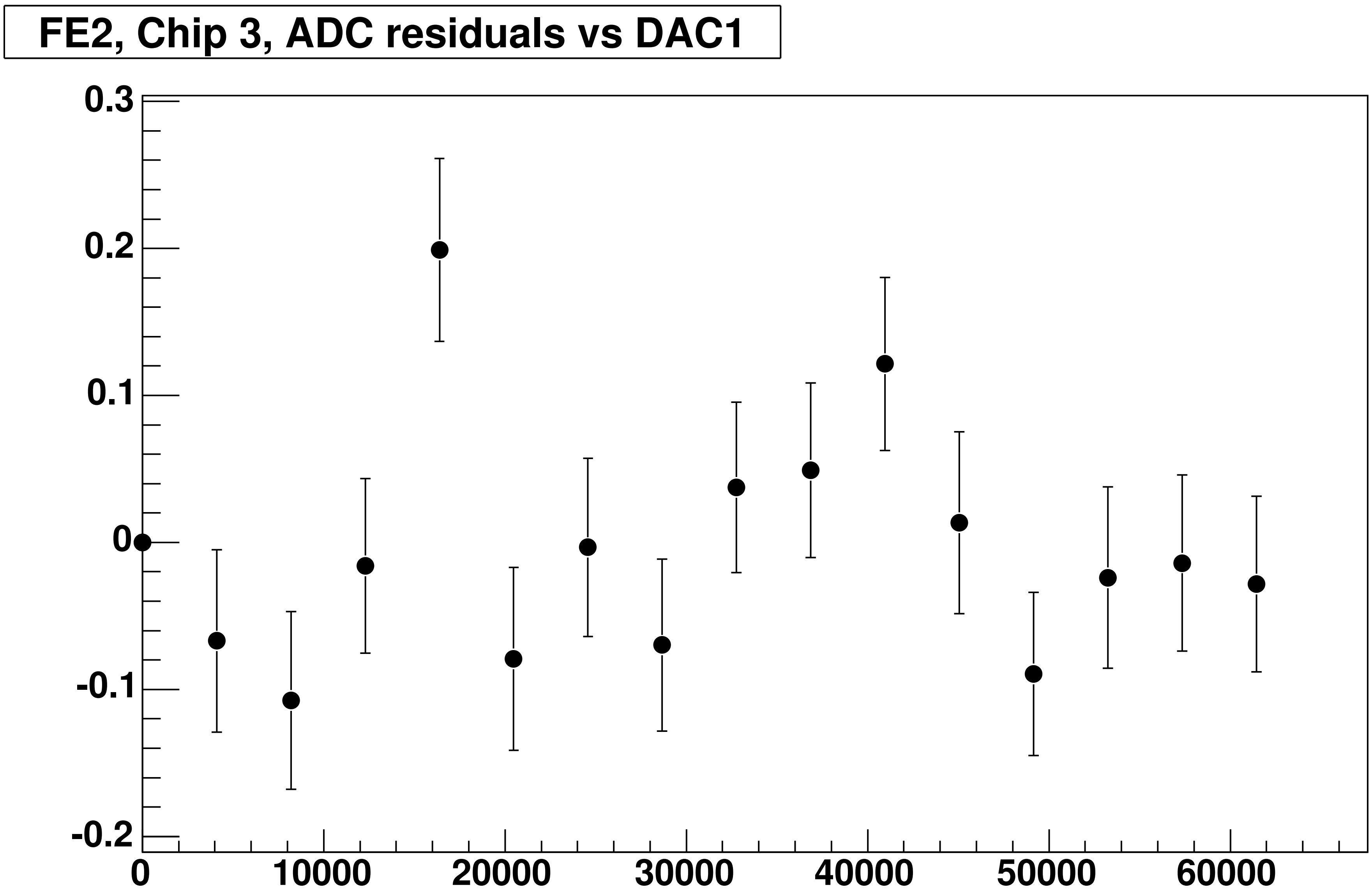
FE2, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

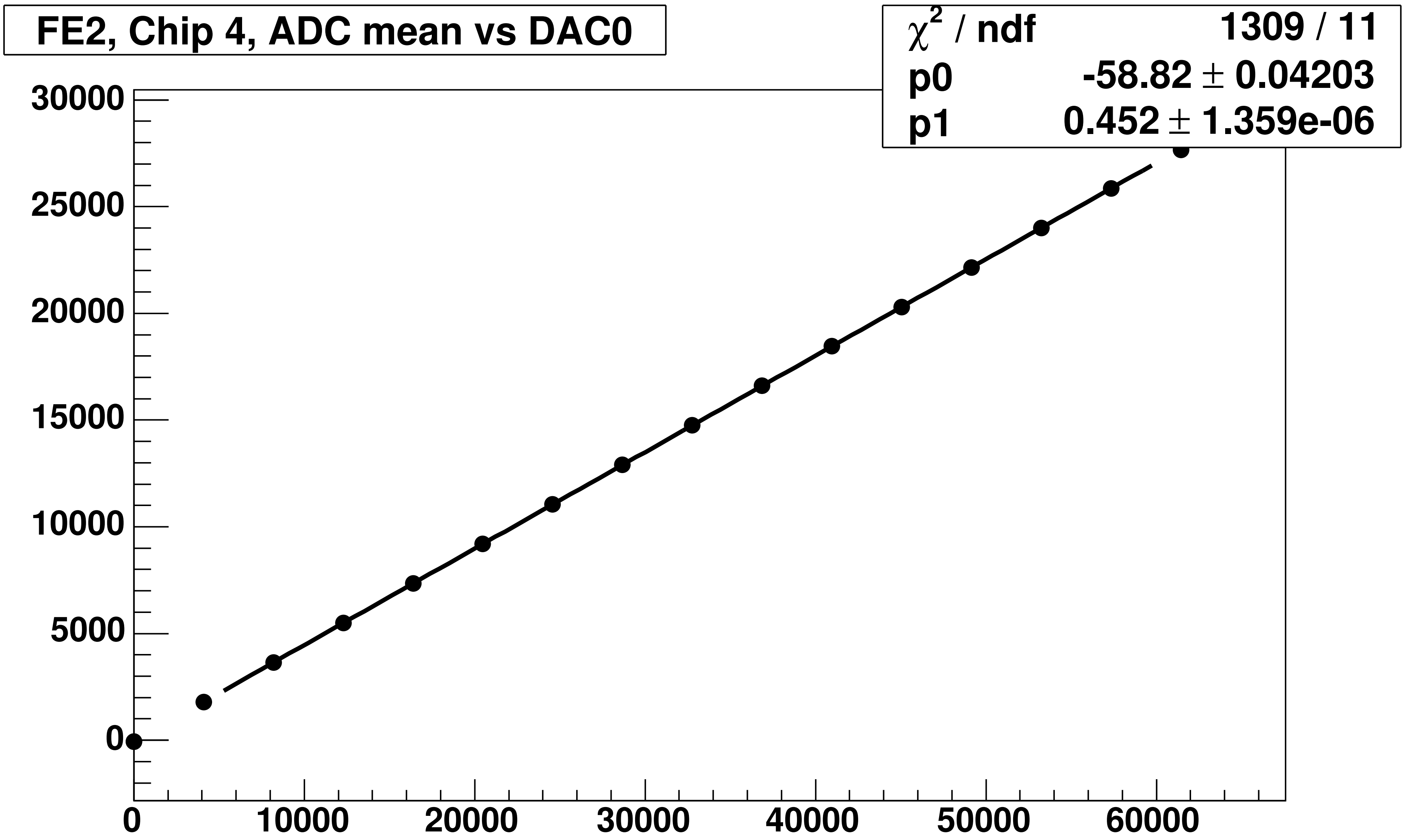


FE2, Chip 3, ADC mean vs DAC1
χ^2 / ndf 24.73 / 11
p0 -53.3 ± 0.03956
p1 2.656e-06 ± 1.088e-06
-53
-53.1
-53.2
-53.3
-53.4
0
10000
20000
30000
40000
50000
60000

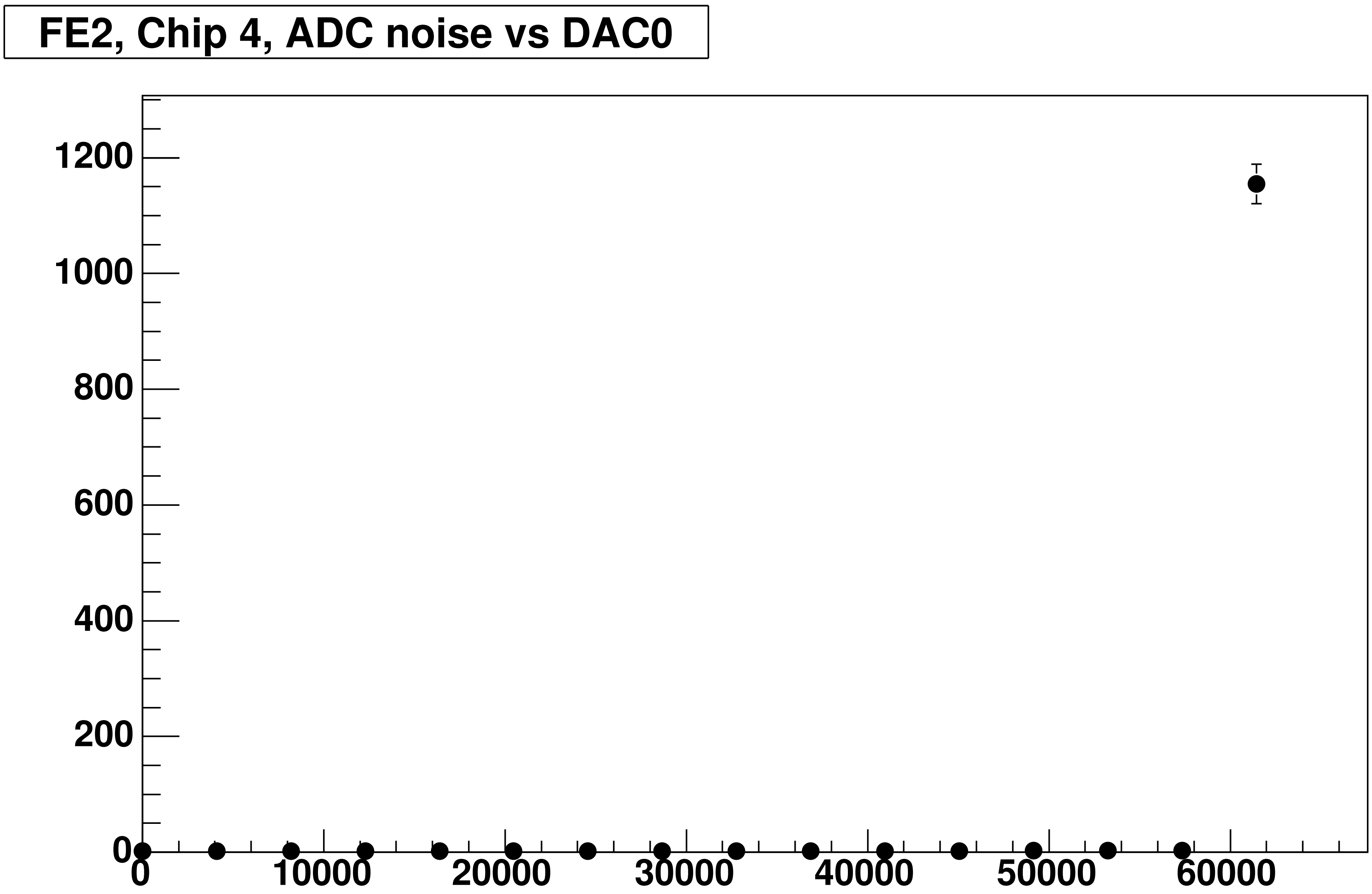


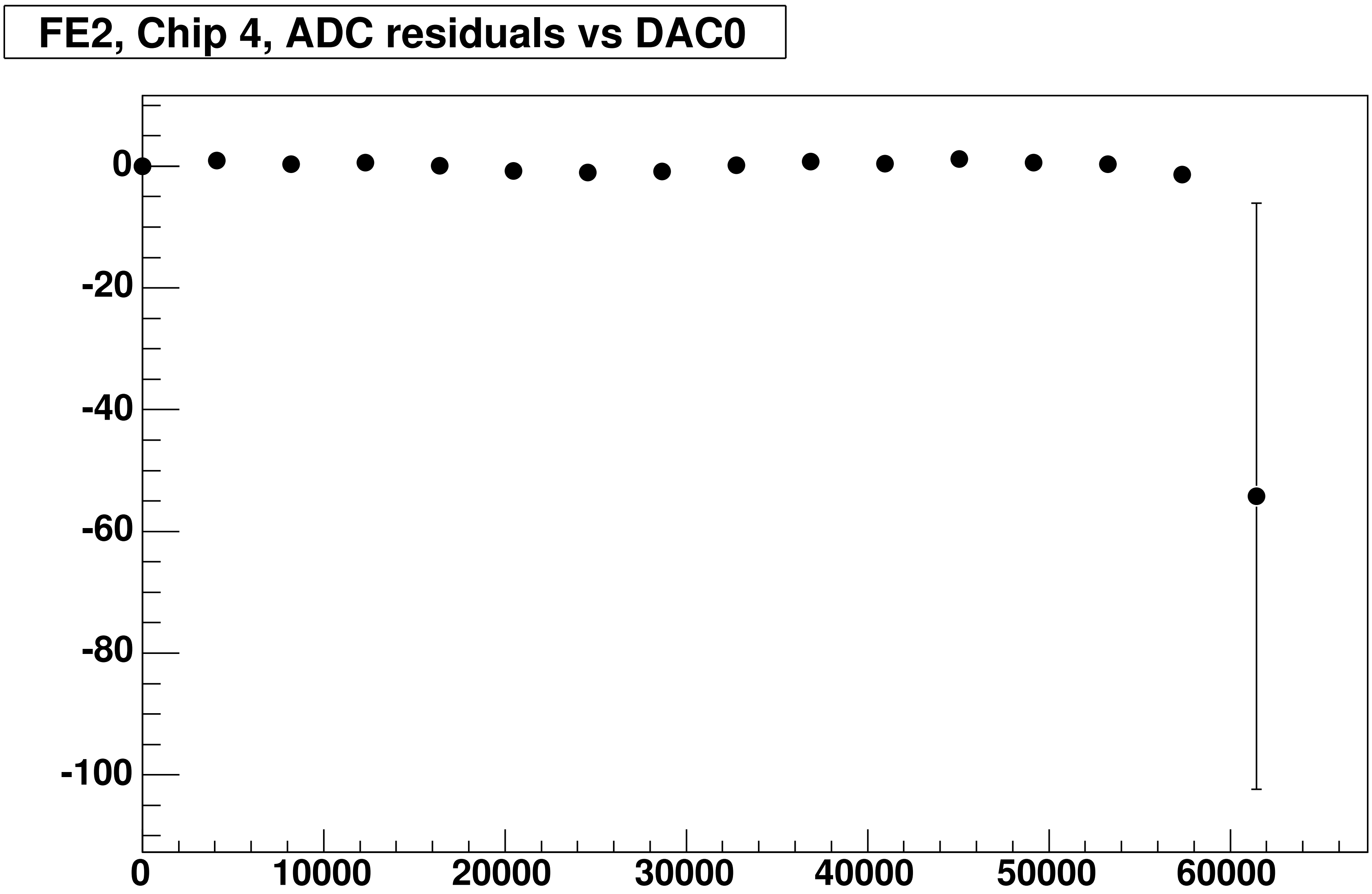
FE2, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

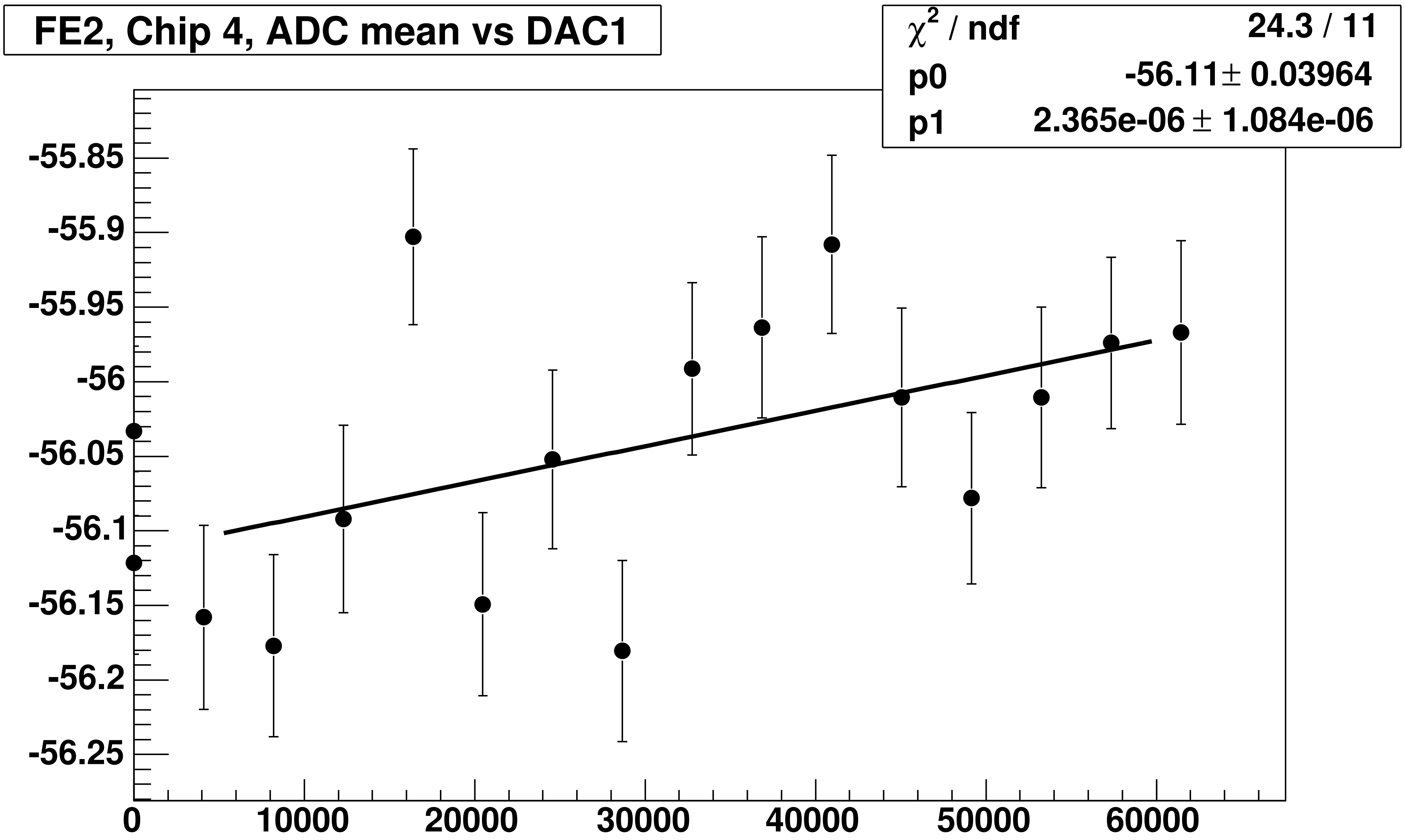

FE2, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



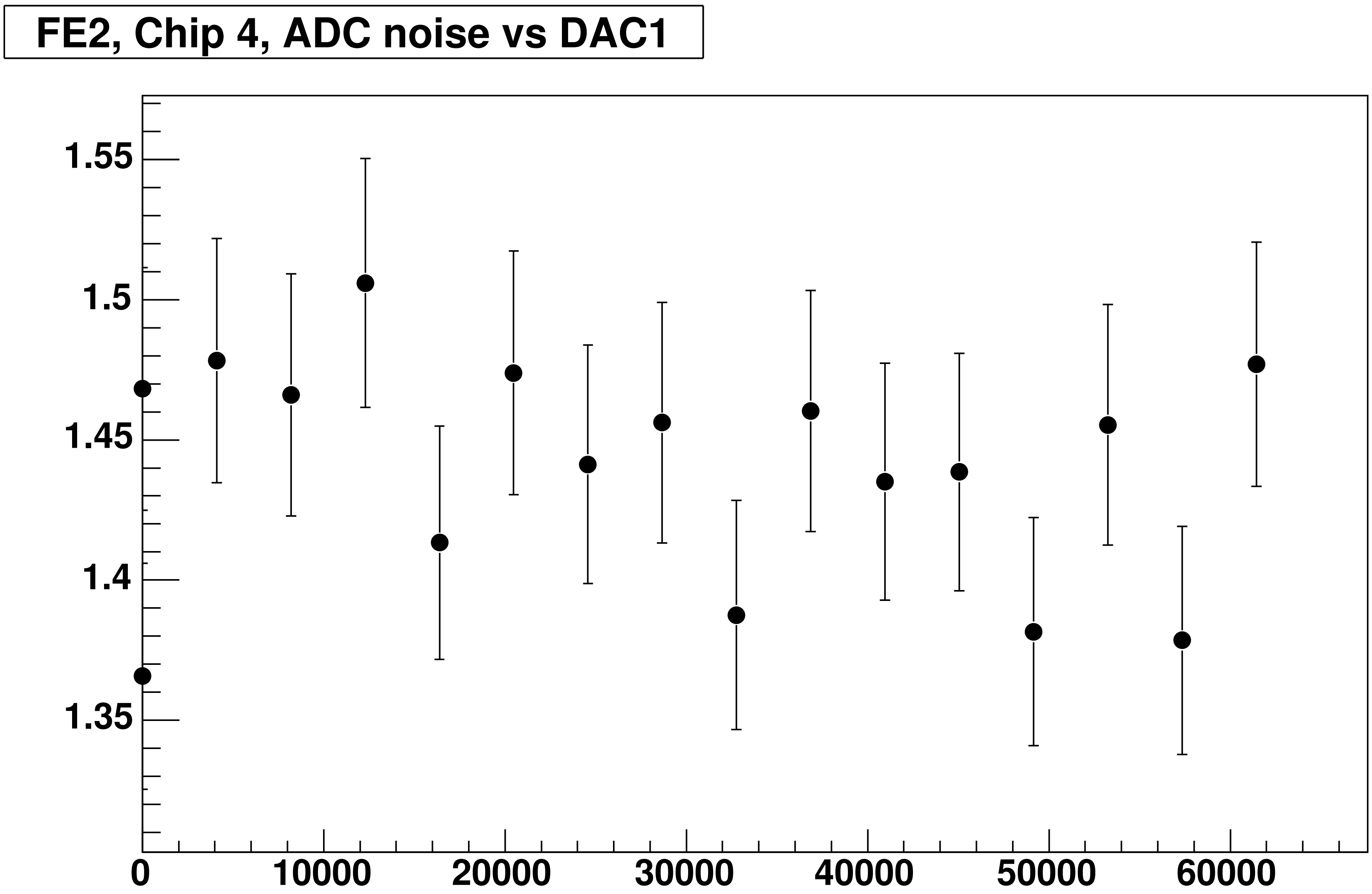
FE2, Chip 4, ADC mean vs DAC0
χ2 / ndf 1309 / 11
p0 -58.82 ± 0.04203
p1 0.452 ± 1.359e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

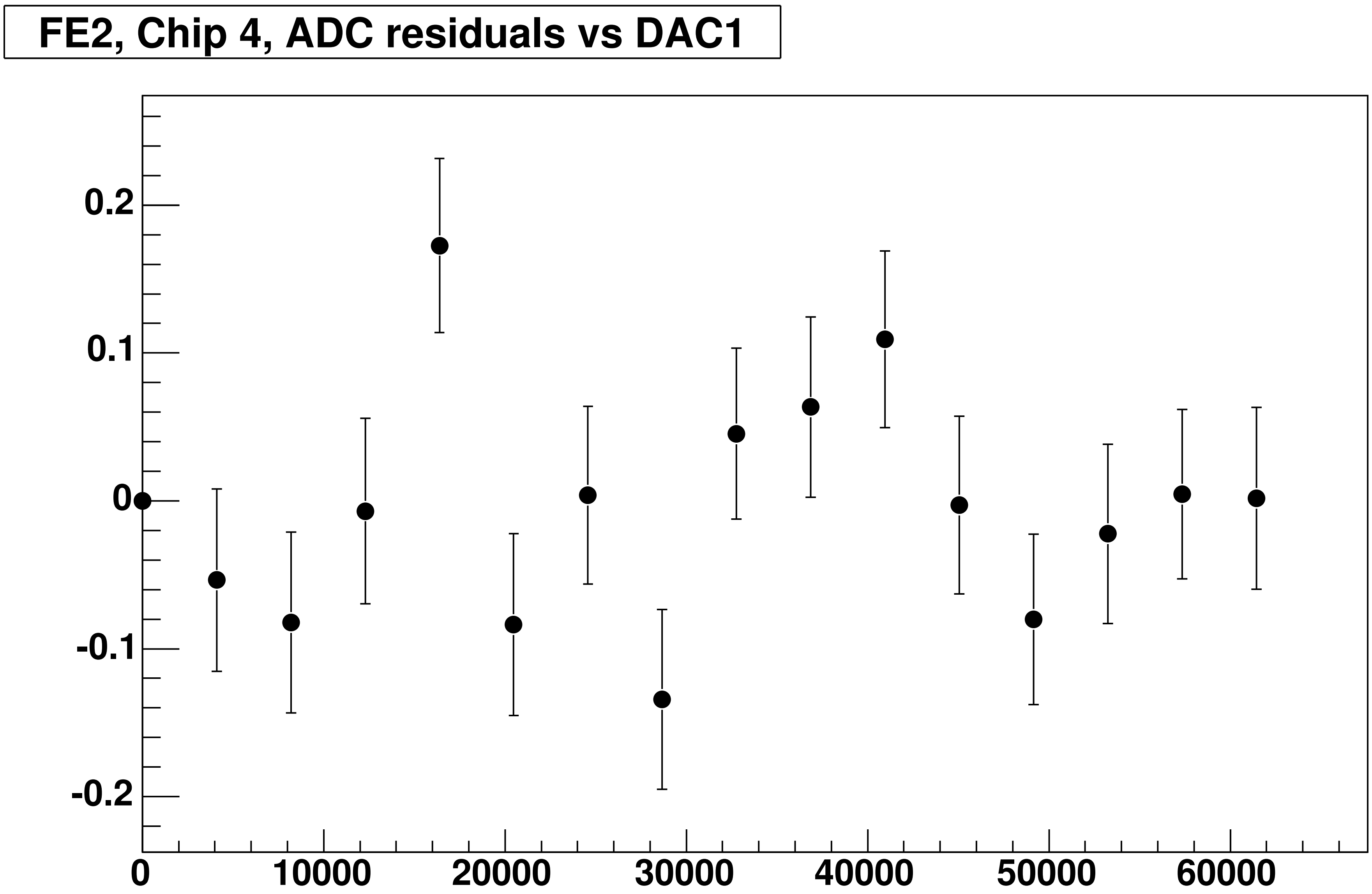

FE2, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

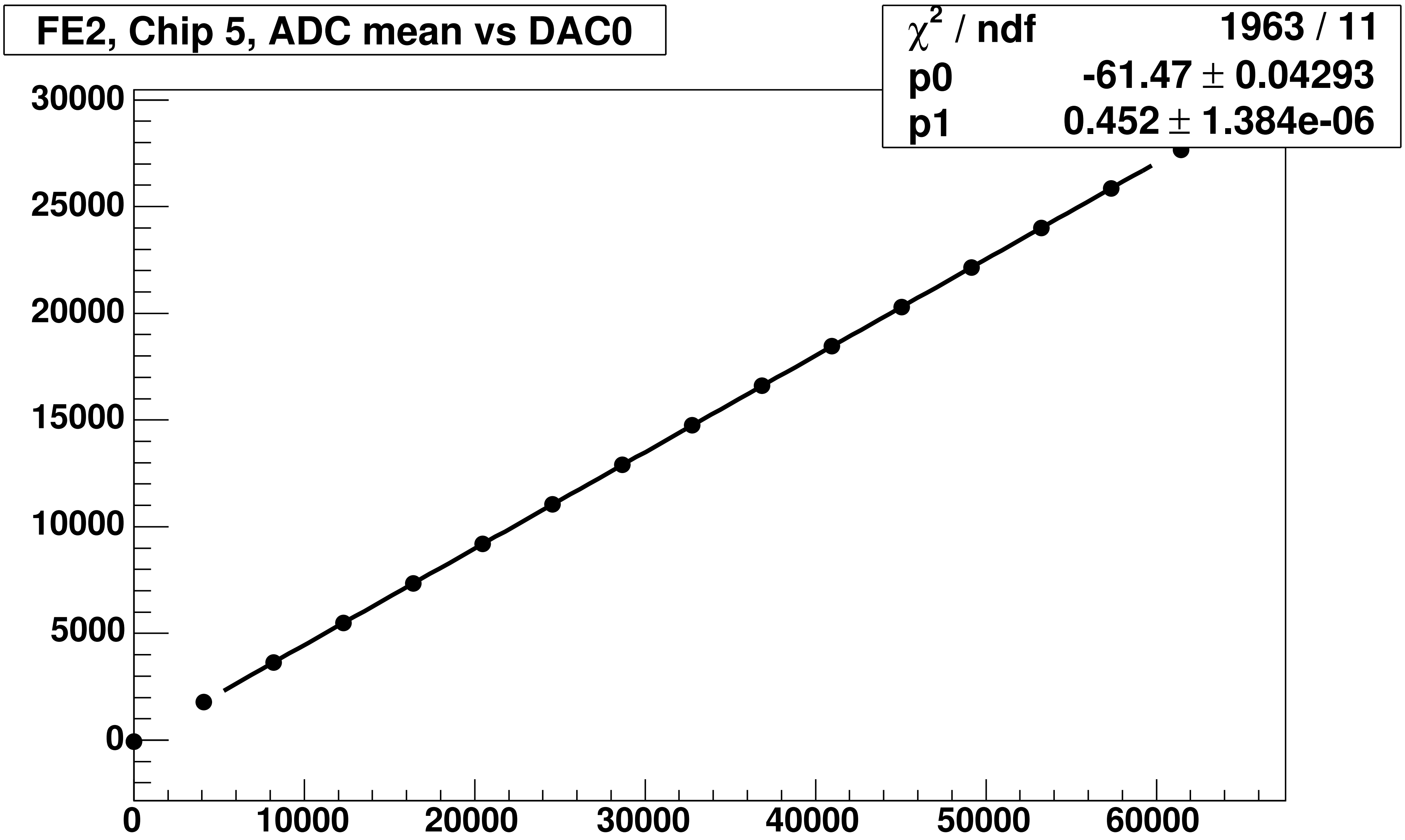

FE2, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



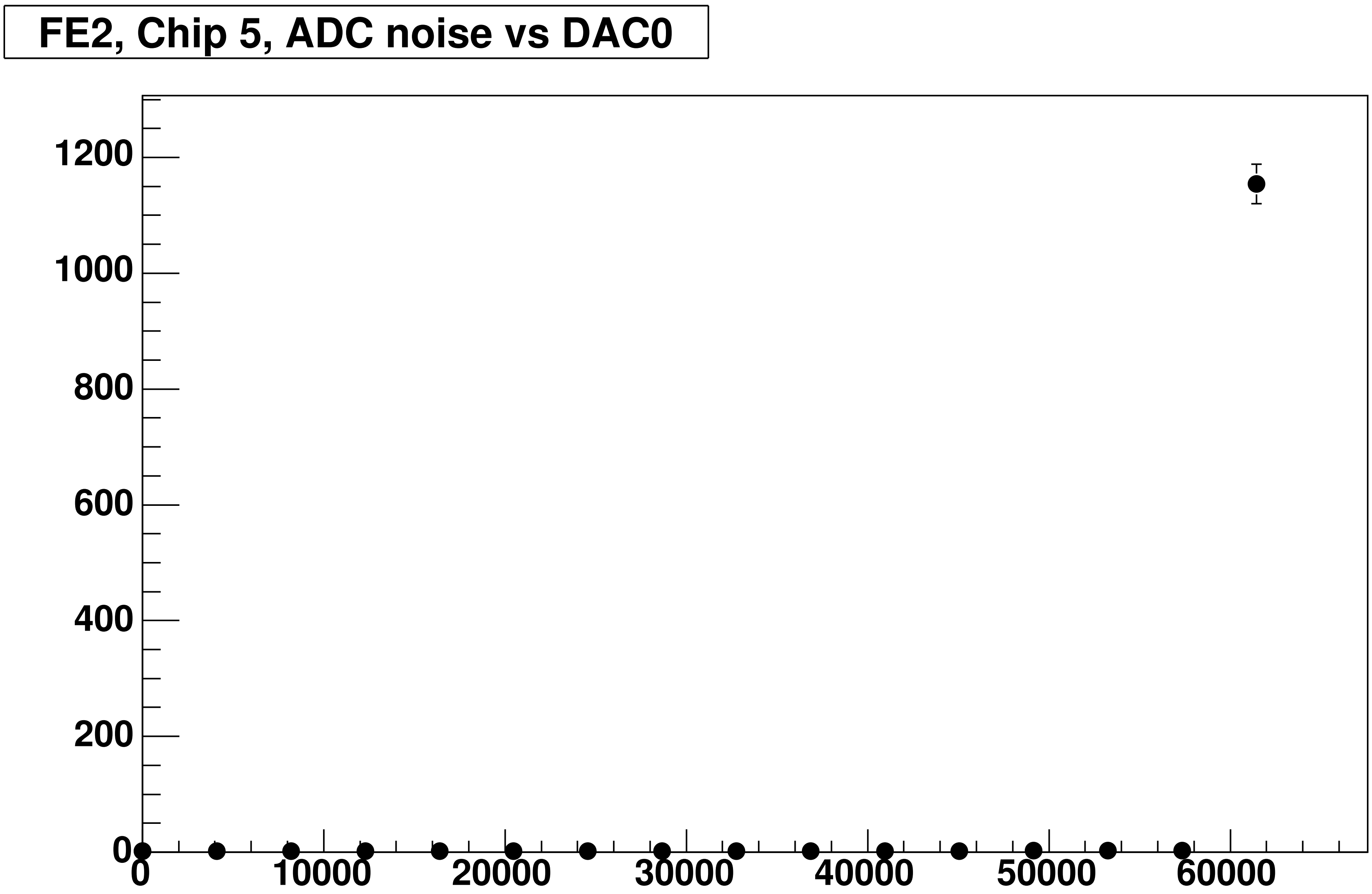
FE2, Chip 4, ADC mean vs DAC1
χ2 / ndf 24.3 / 11
p0 -56.11 ± 0.03964
p1 2.365e-06 ± 1.084e-06
-55.85
-55.9
-55.95
-56
-56.05
-56.1
-56.15
-56.2
-56.25
0
10000
20000
30000
40000
50000
60000


FE2, Chip 4, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

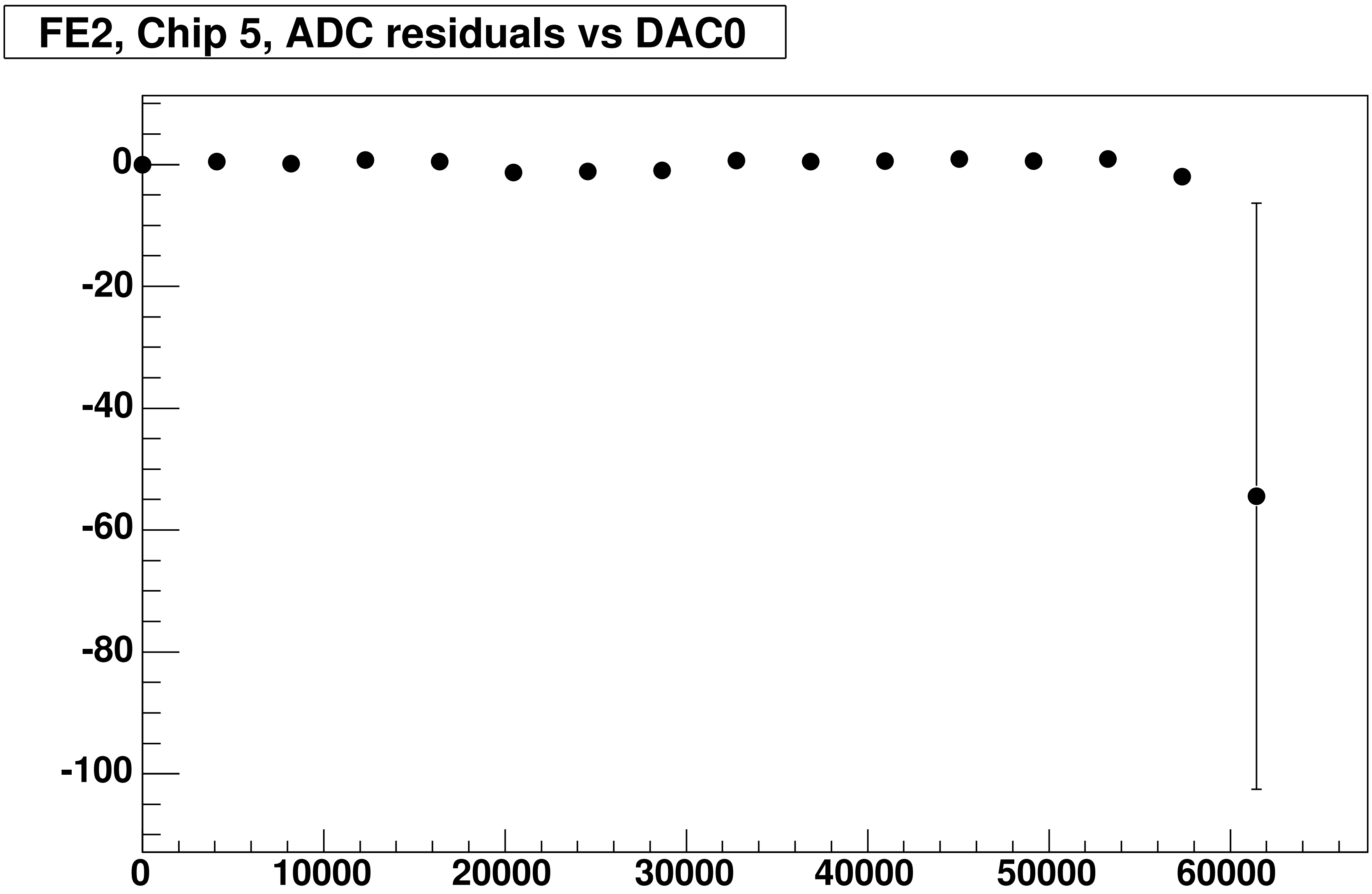

FE2, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

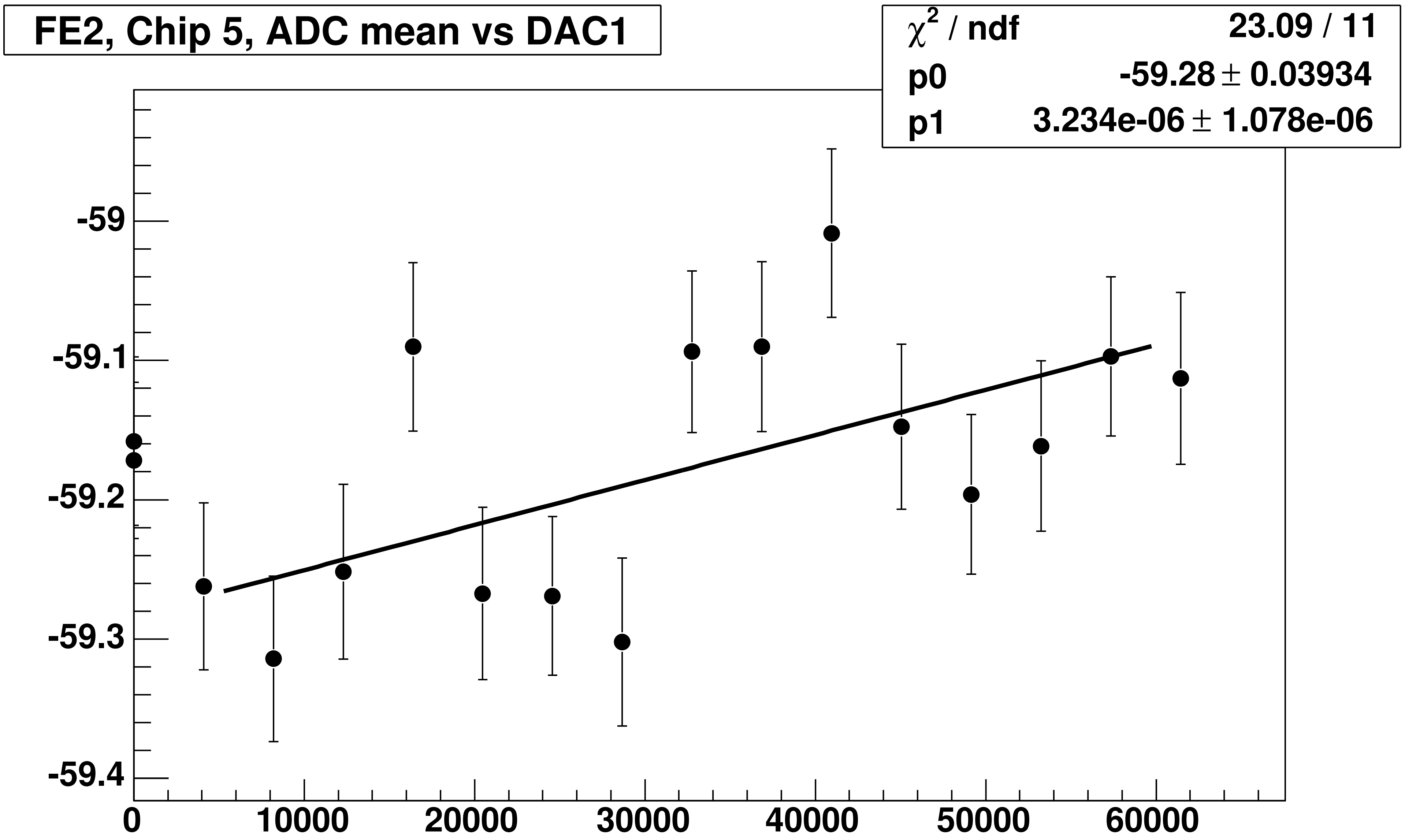


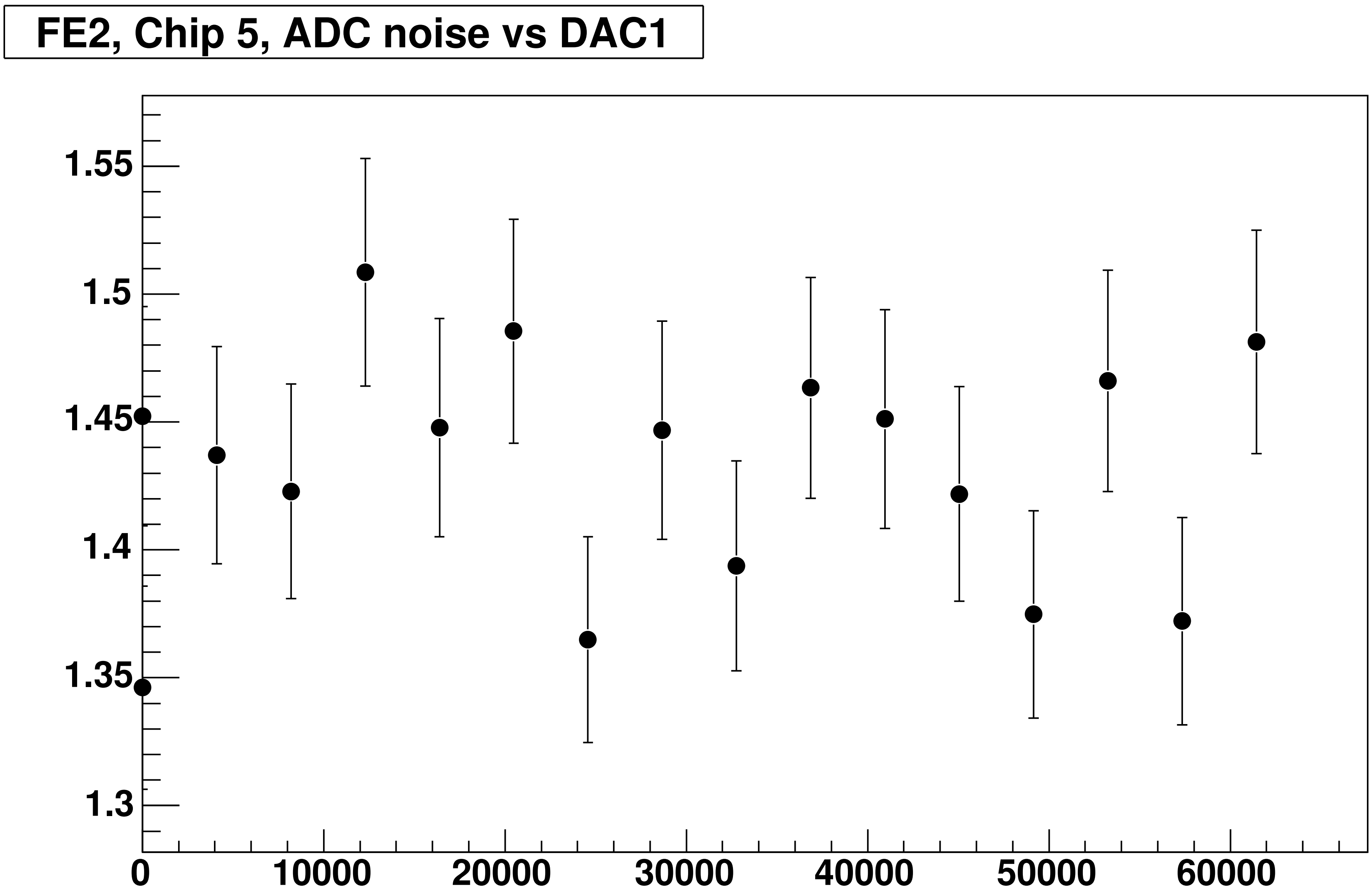
FE2, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1963 / 11
p0 -61.47 ± 0.04293
p1 0.452 ± 1.384e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

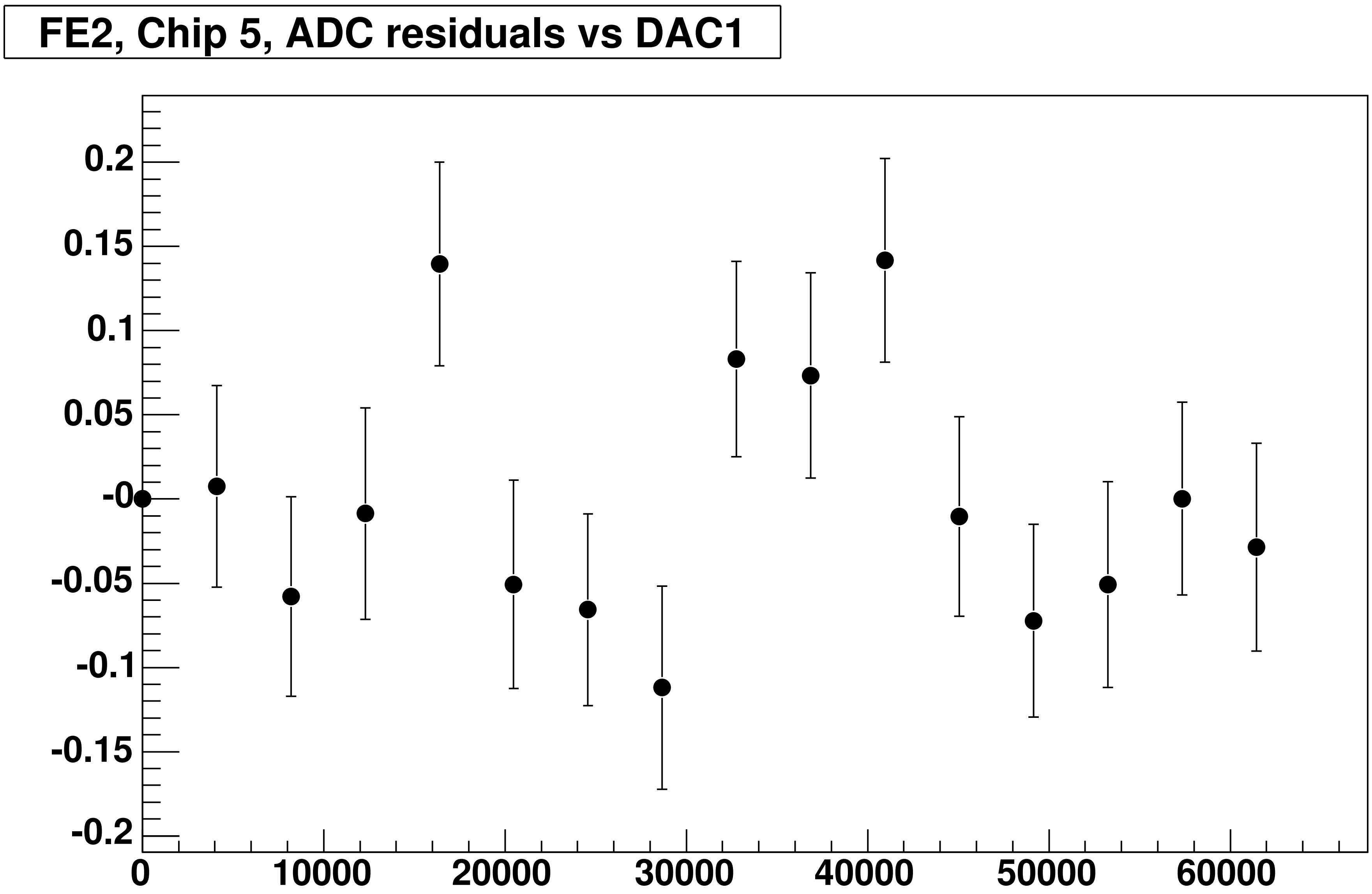


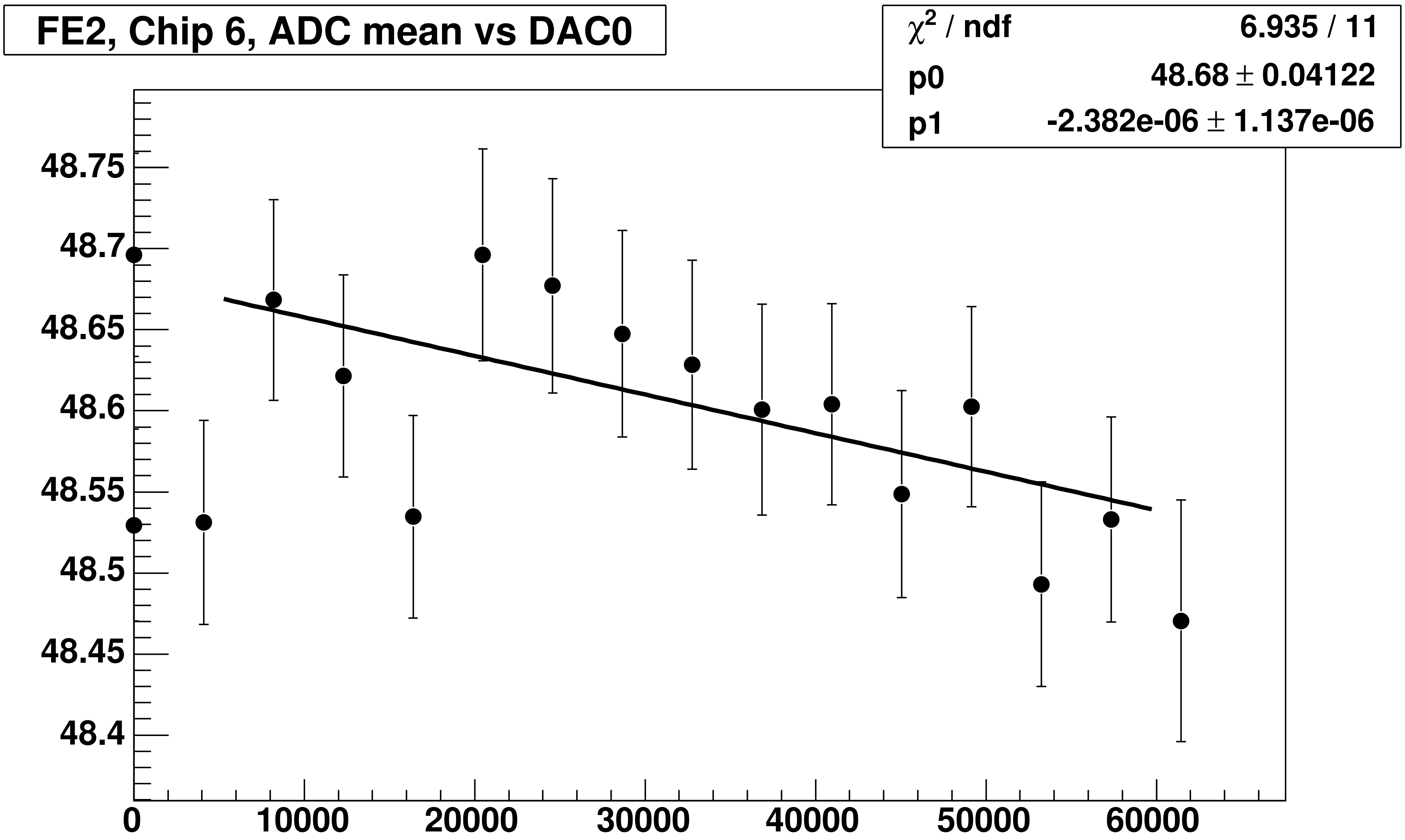
FE2, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

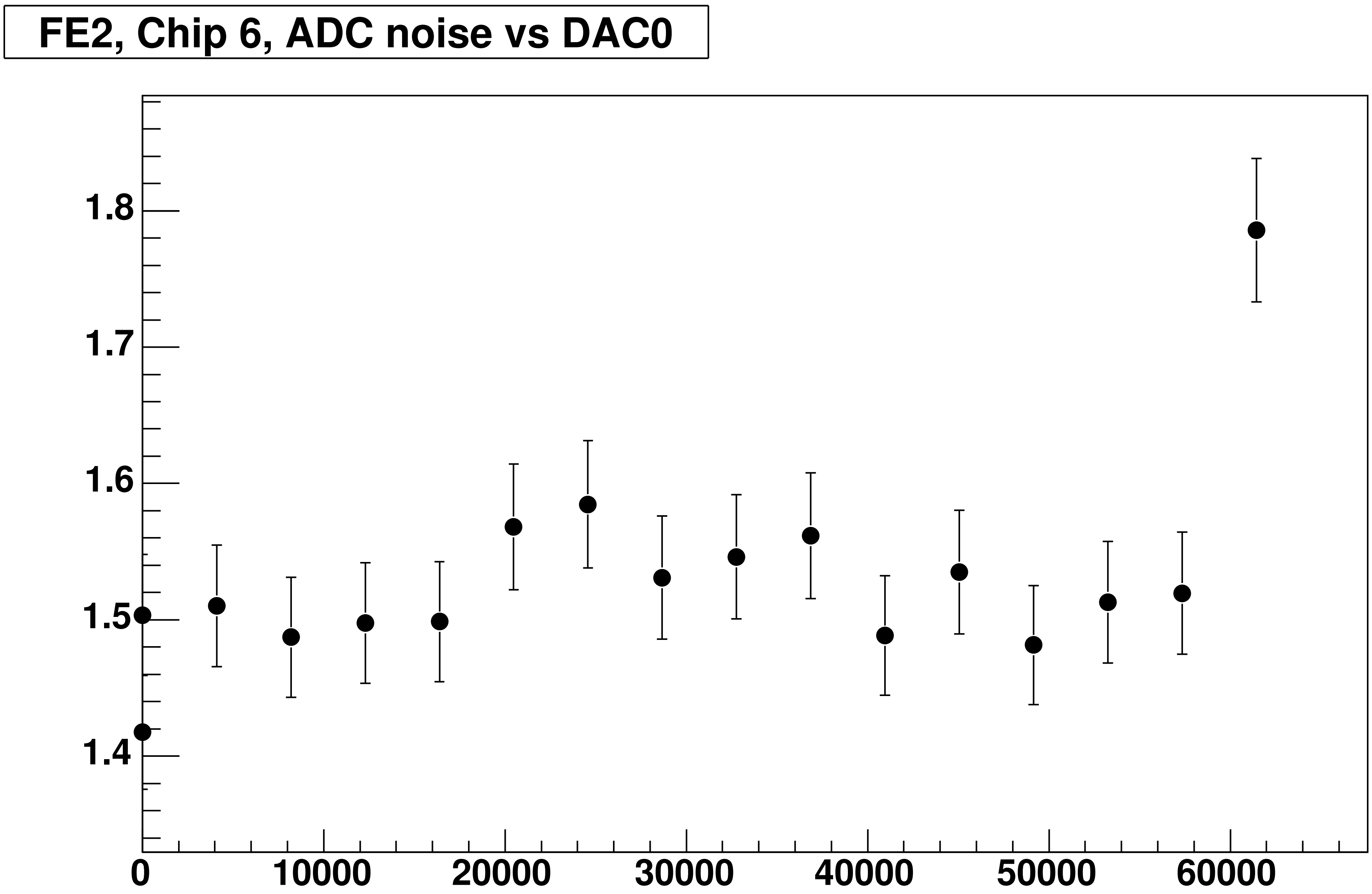

FE2, Chip 5, ADC mean vs DAC1
χ² / ndf 23.09 / 11
p0 -59.28 ± 0.03934
p1 3.234e-06 ± 1.078e-06
-59
-59.1
-59.2
-59.3
-59.4
0
10000
20000
30000
40000
50000
60000

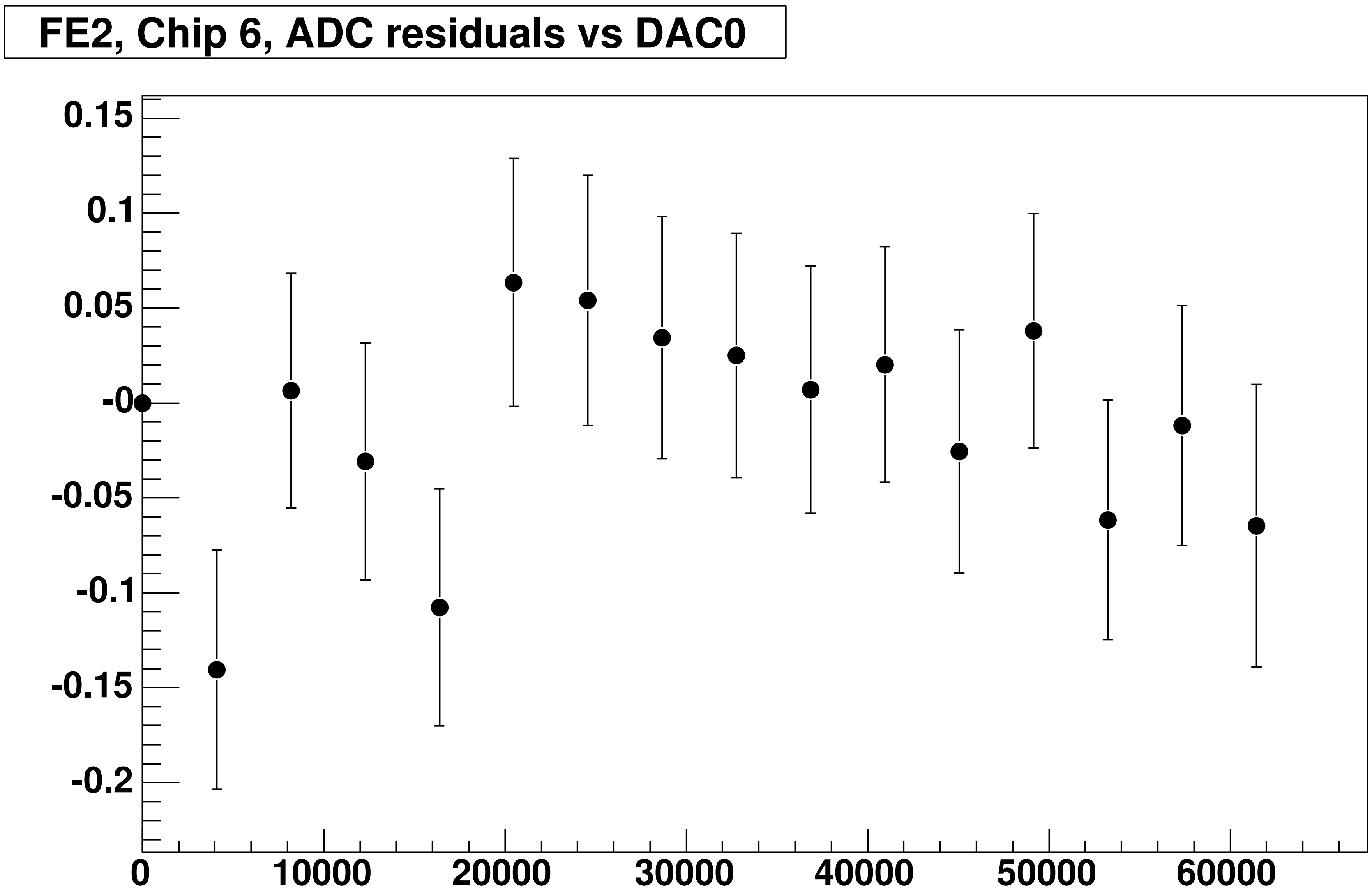

FE2, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

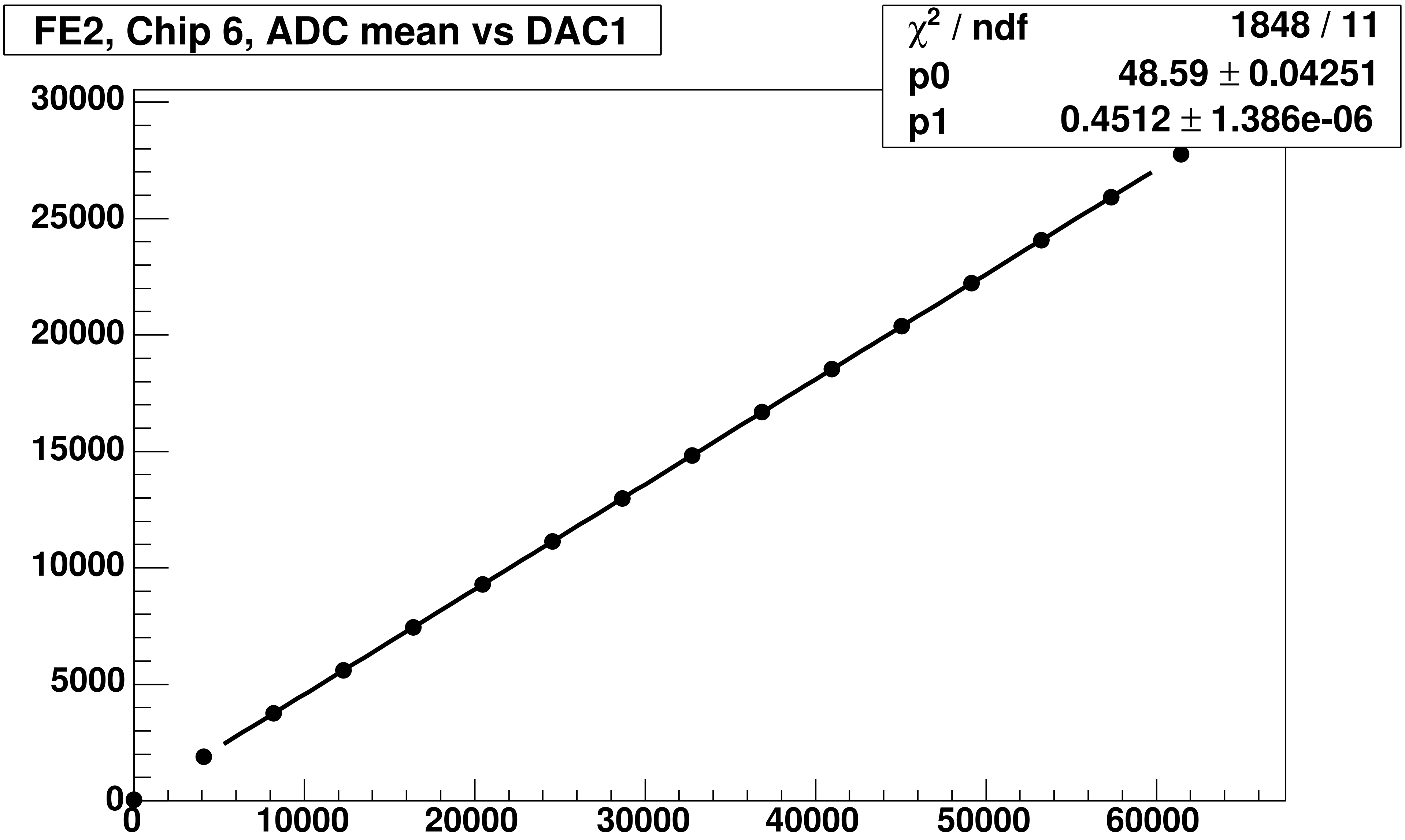

FE2, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



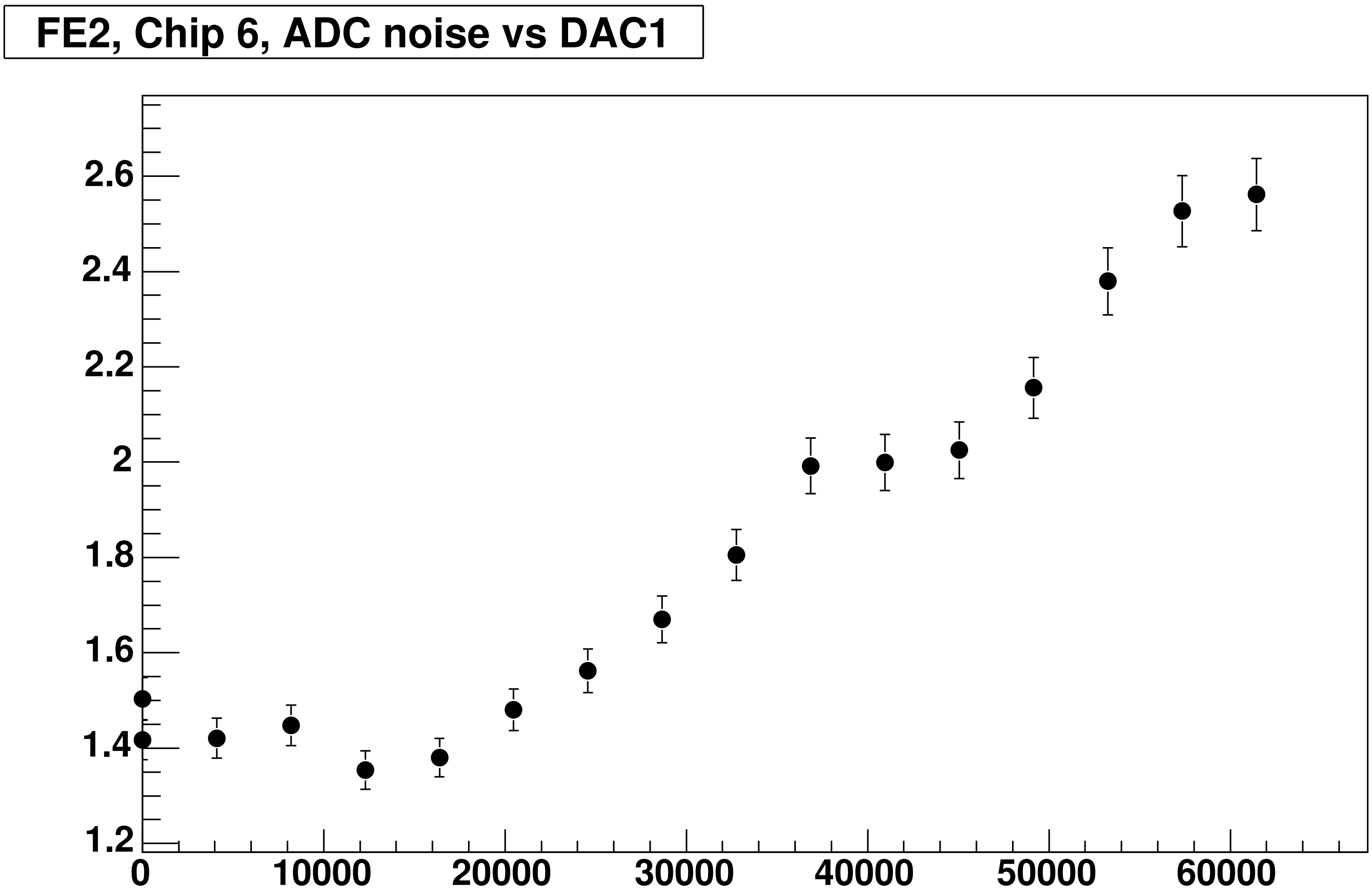
FE2, Chip 6, ADC mean vs DAC0
χ² / ndf 6.935 / 11
p0 48.68 ± 0.04122
p1 -2.382e-06 ± 1.137e-06
48.75
48.7
48.65
48.6
48.55
48.5
48.45
48.4
0
10000
20000
30000
40000
50000
60000

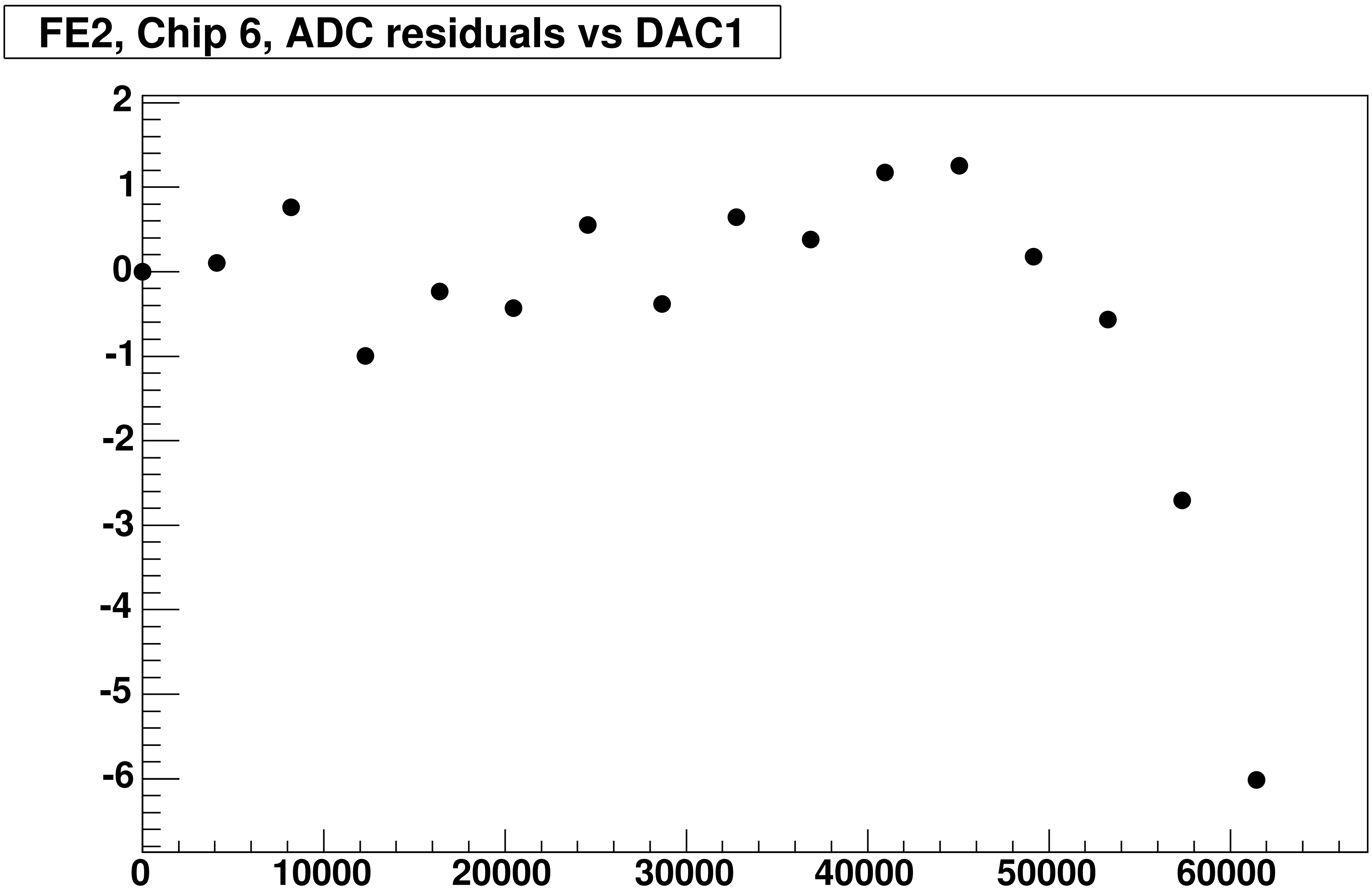

FE2, Chip 6, ADC noise vs DAC0
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

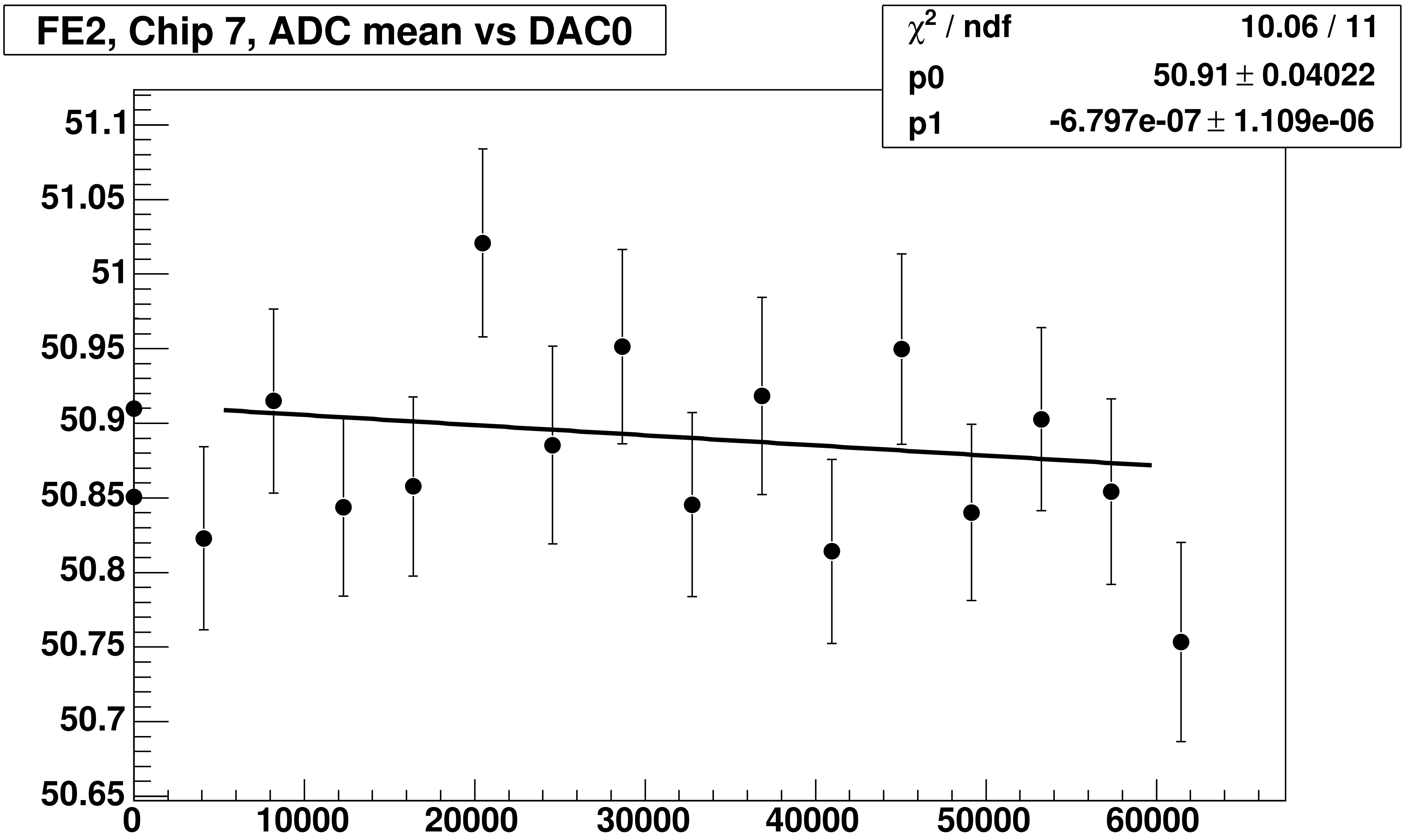

FE2, Chip 6, ADC residuals vs DAC0
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

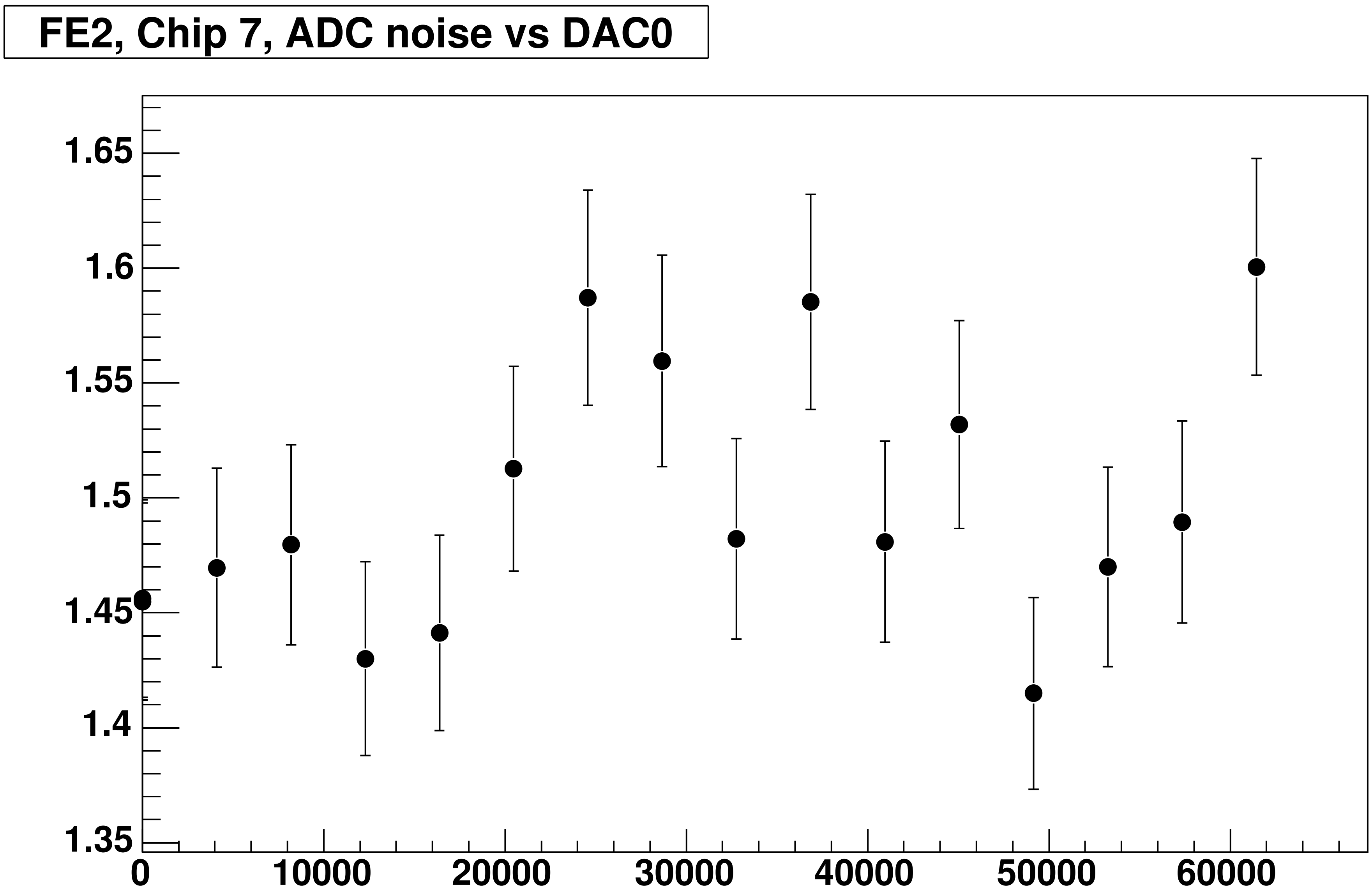


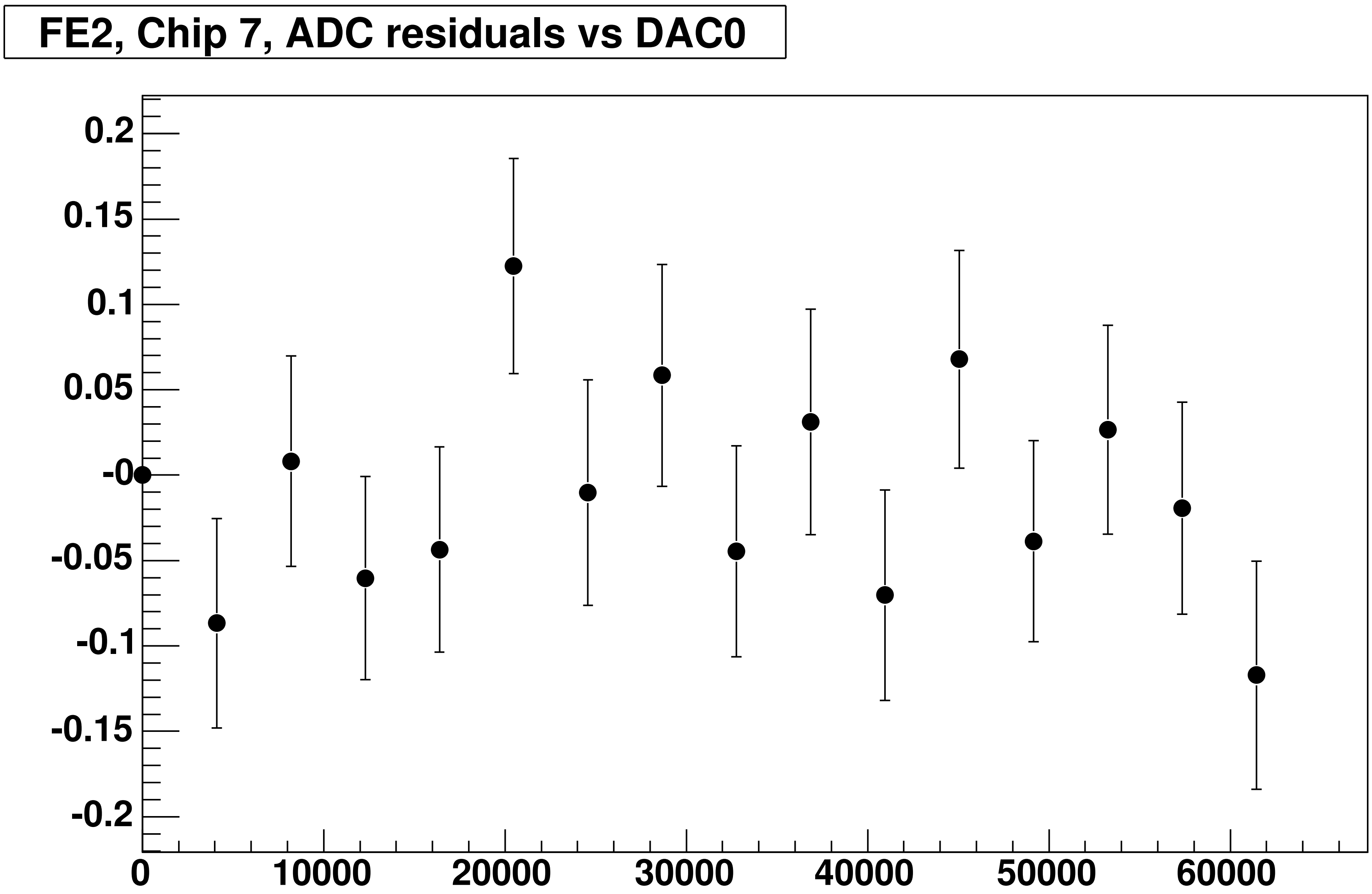
FE2, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1848 / 11
p0 48.59 ± 0.04251
p1 0.4512 ± 1.386e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

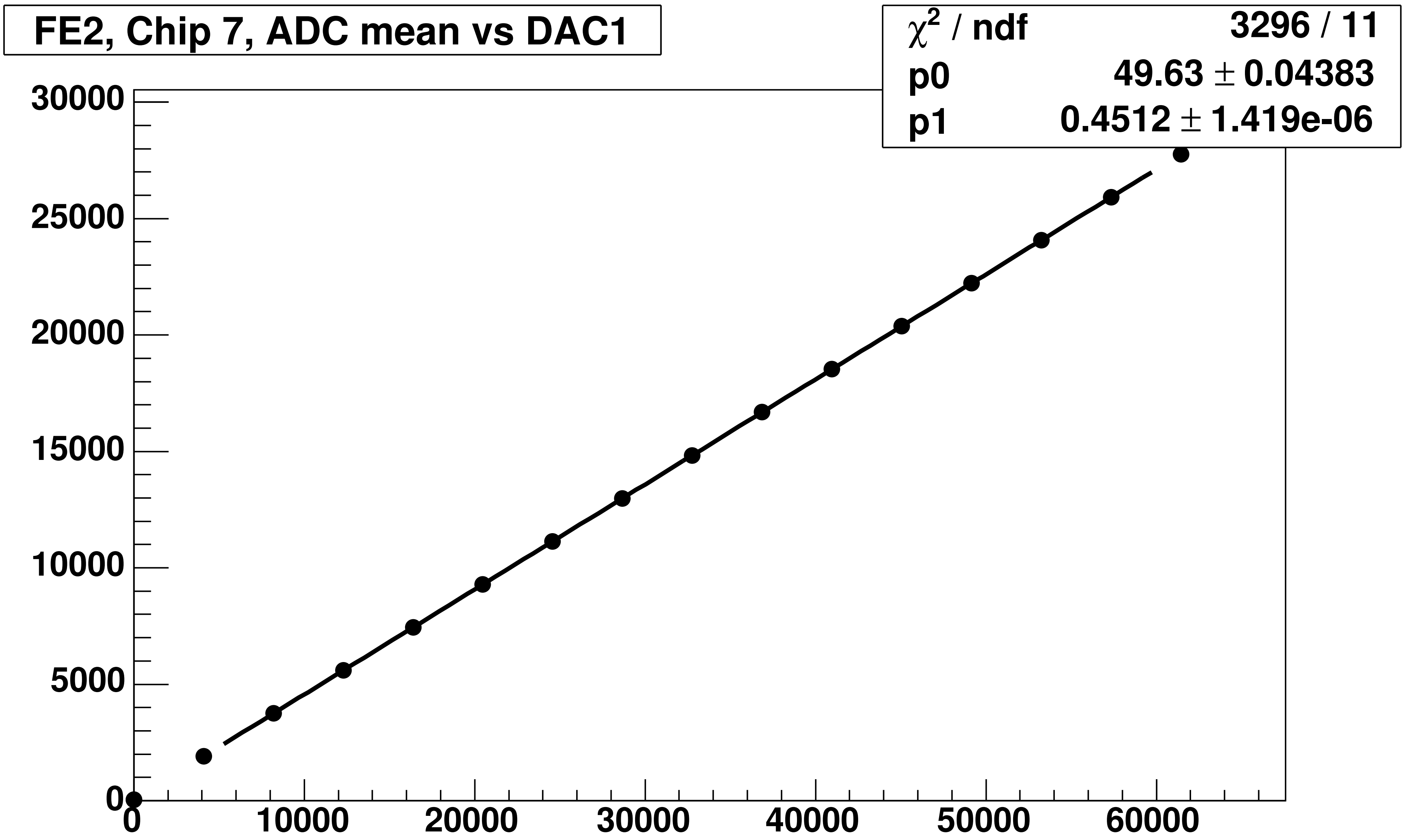

FE2, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

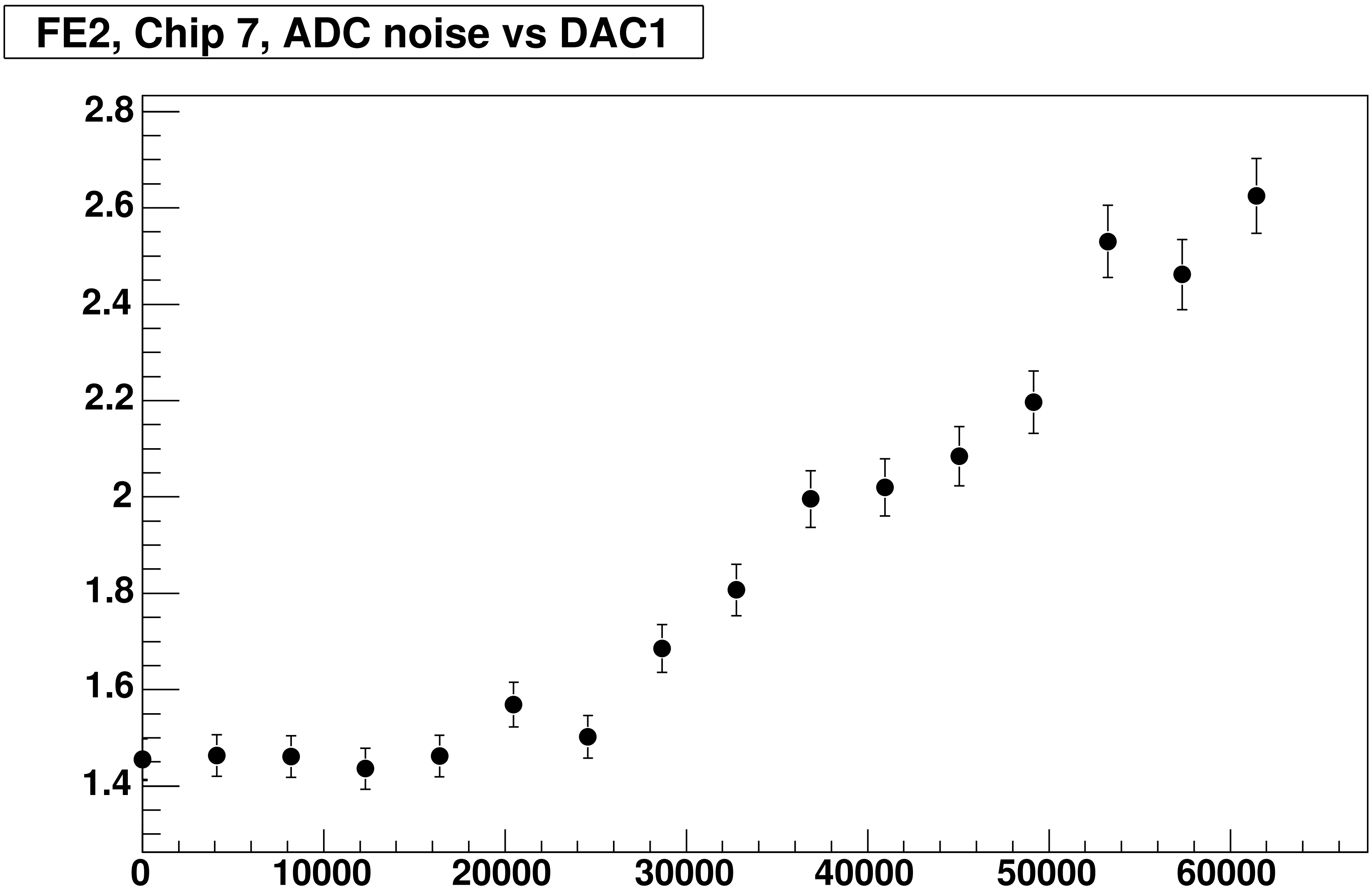

FE2, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

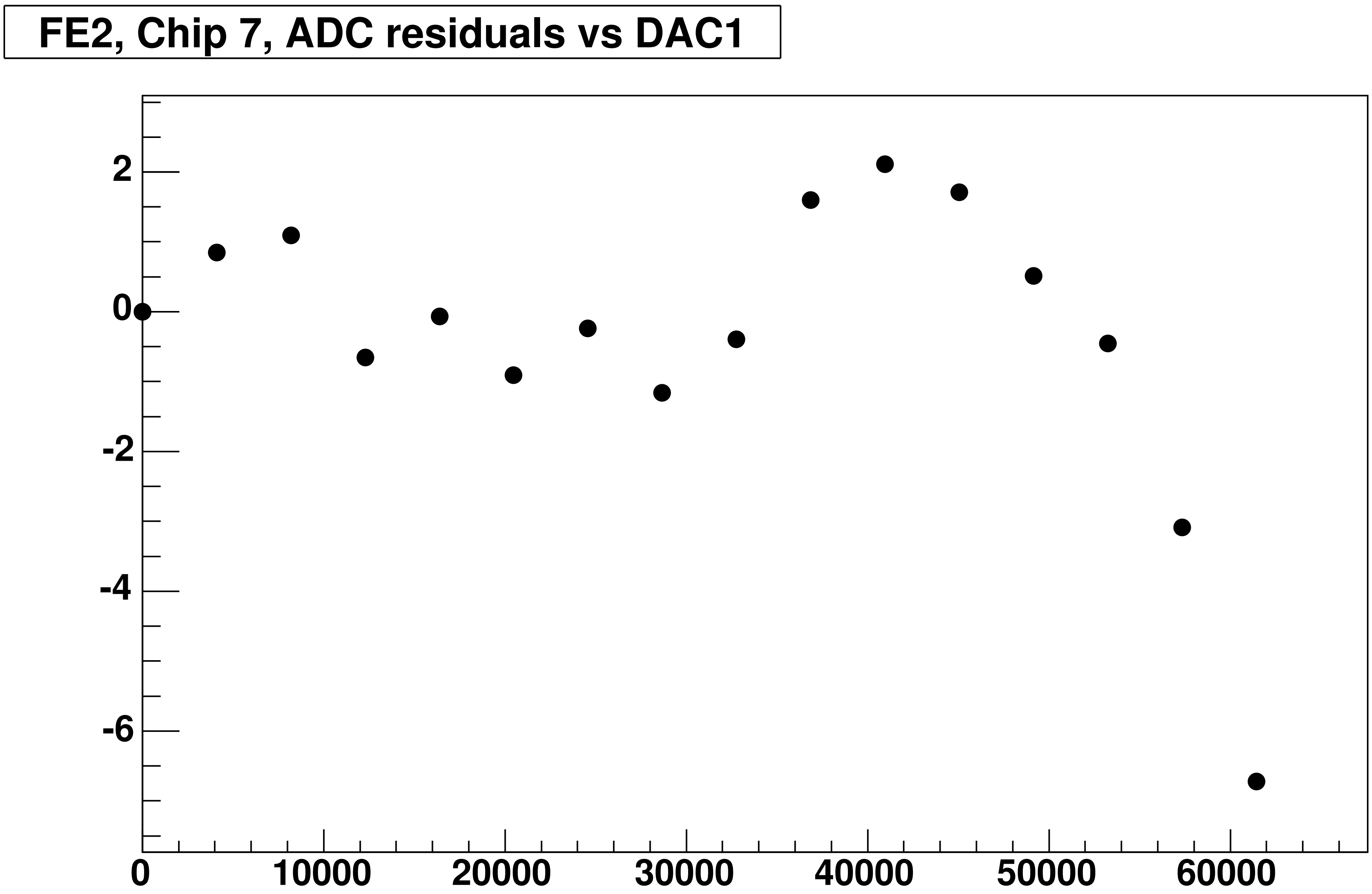

FE2, Chip 7, ADC mean vs DAC0
χ^2 / ndf 10.06 / 11
p0 50.91 ± 0.04022
p1 -6.797e-07 ± 1.109e-06
51.1
51.05
51
50.95
50.9
50.85
50.8
50.75
50.7
50.65
0
10000
20000
30000
40000
50000
60000

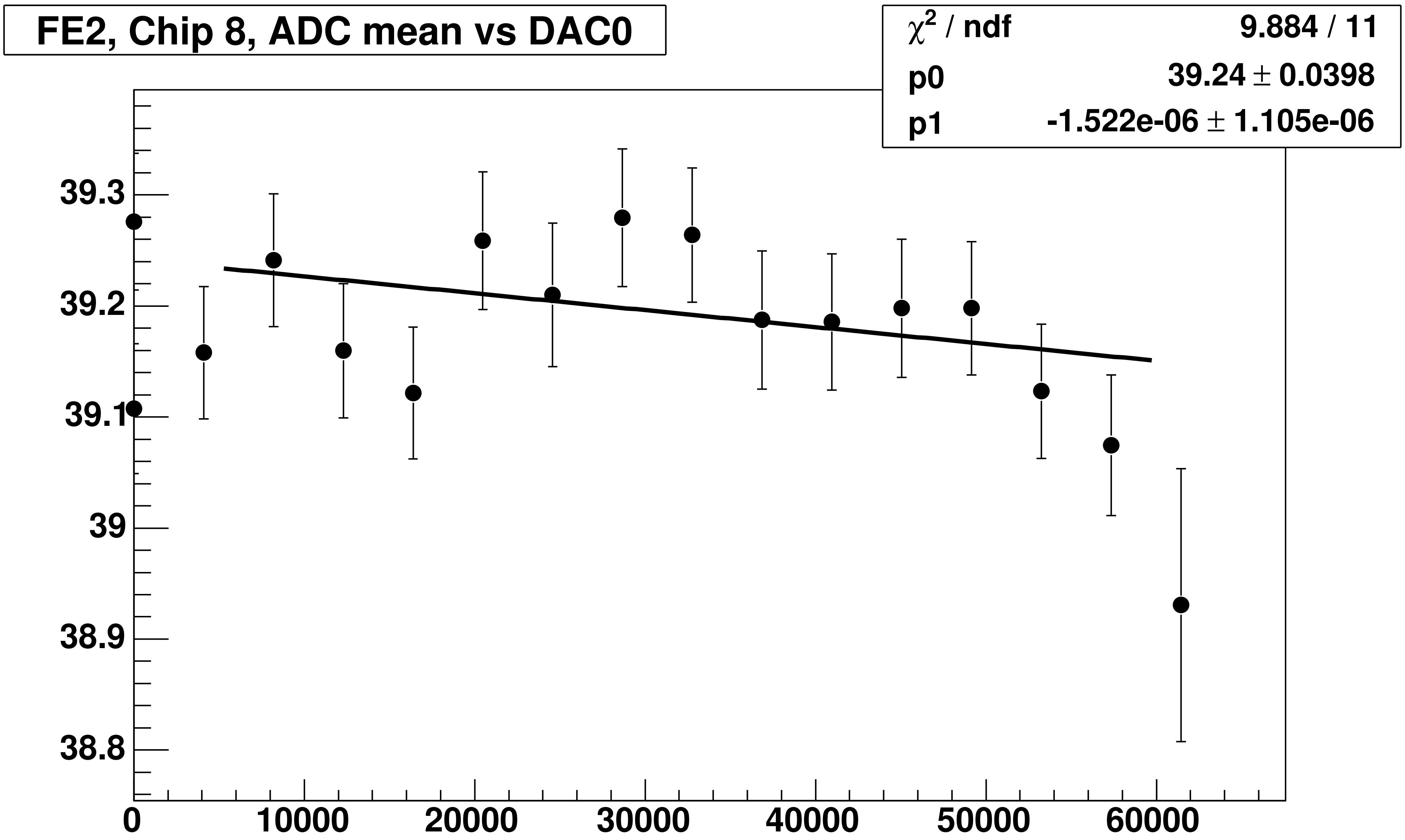

FE2, Chip 7, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

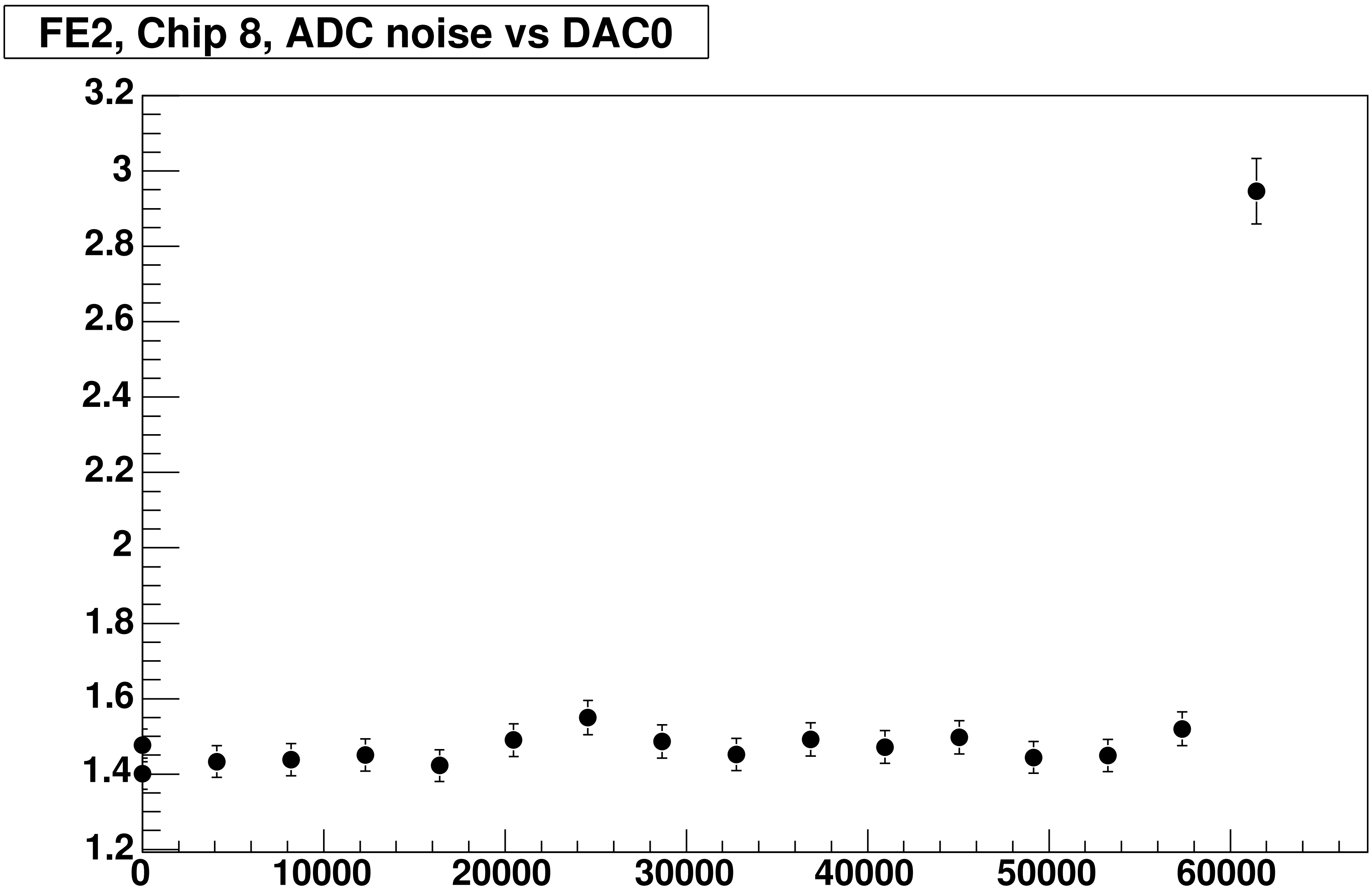

FE2, Chip 7, ADC mean vs DAC1
χ^2 / ndf 3296 / 11
p0 49.63 ± 0.04383
p1 0.4512 ± 1.419e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 7, 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

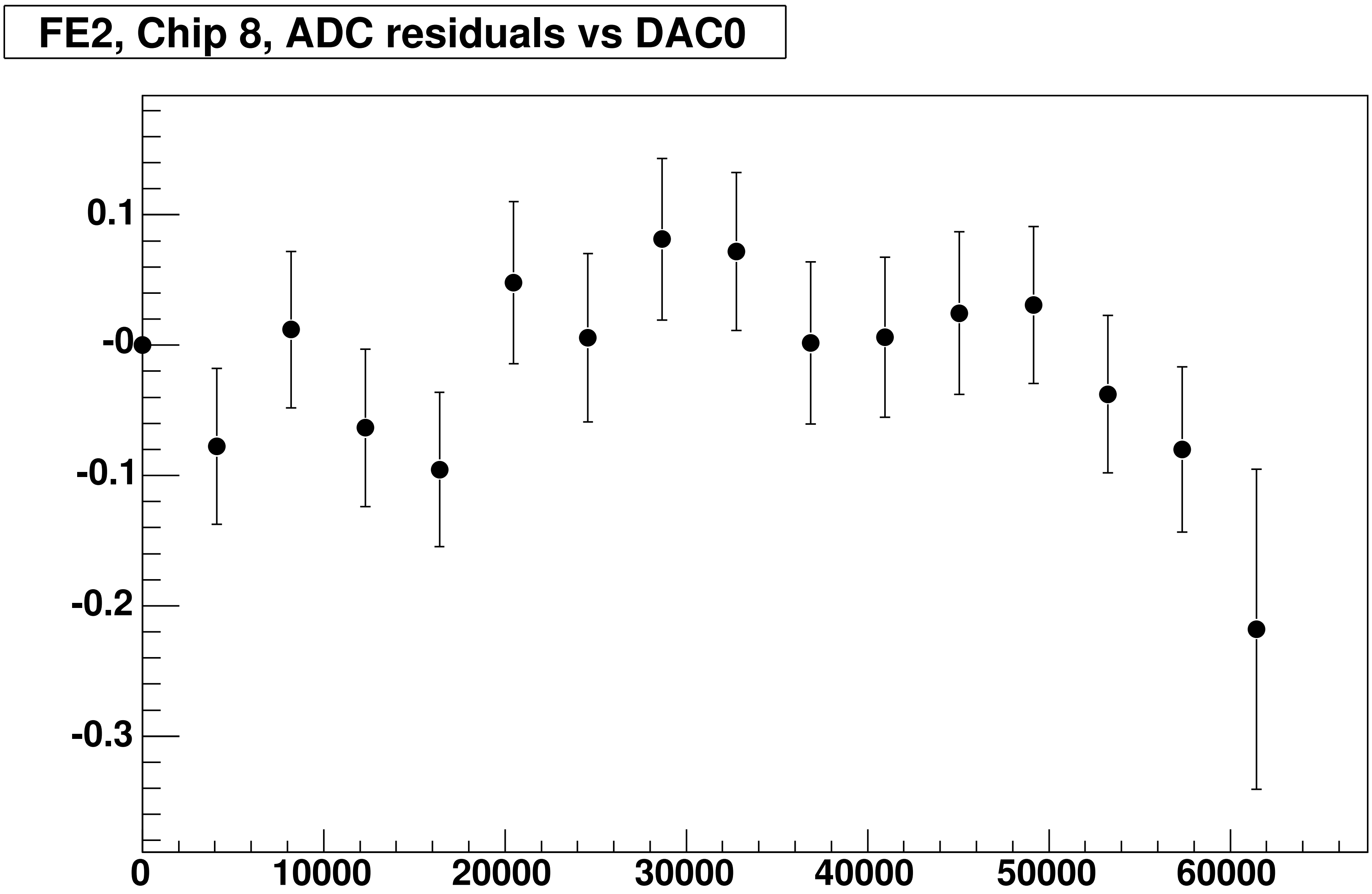

FE2, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000



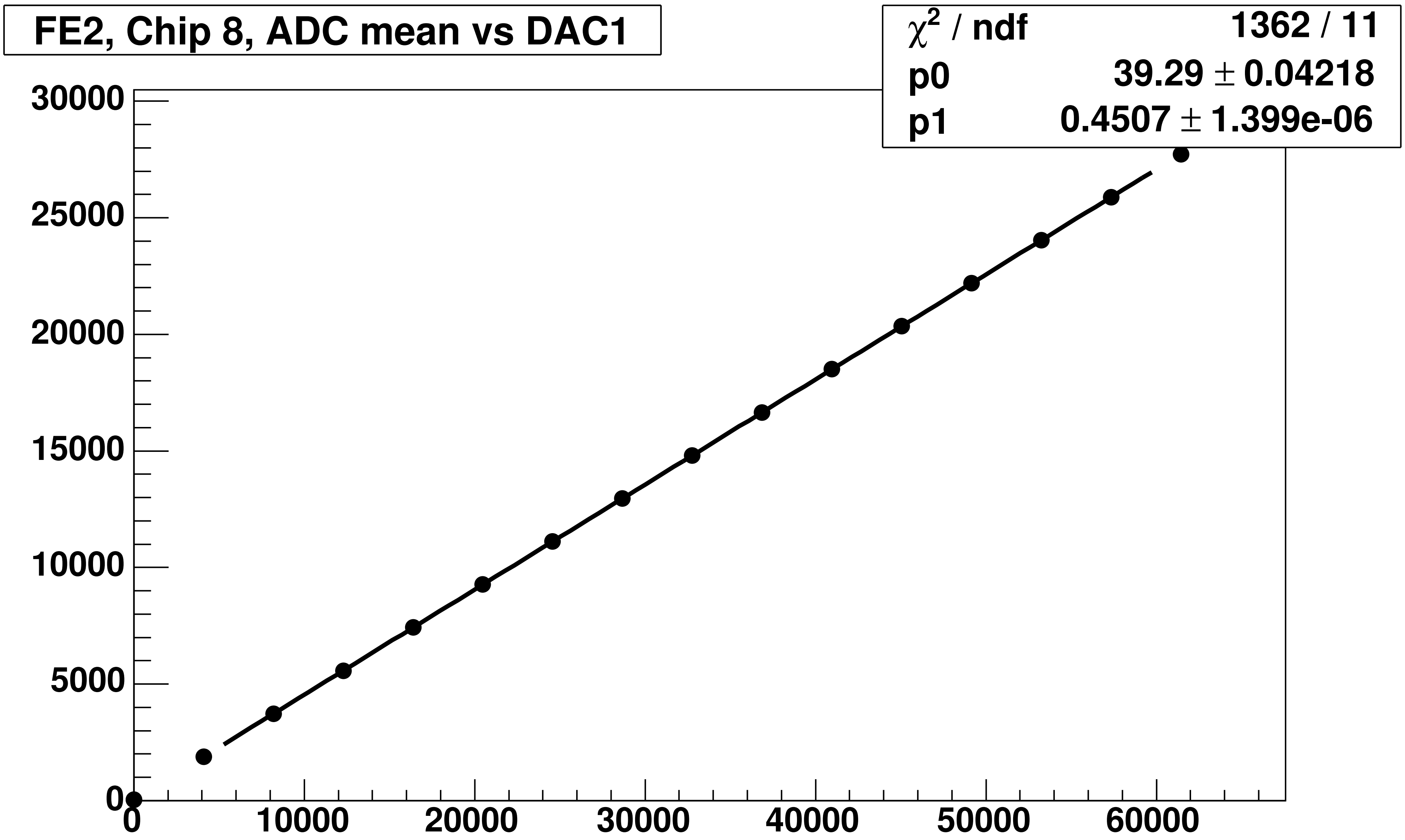
FE2, Chip 8, ADC mean vs DAC0
χ^2 / ndf 9.884 / 11
p0 39.24 ± 0.0398
p1 -1.522e-06 ± 1.105e-06
39.3
39.2
39.1
39
38.9
38.8
0
10000
20000
30000
40000
50000
60000



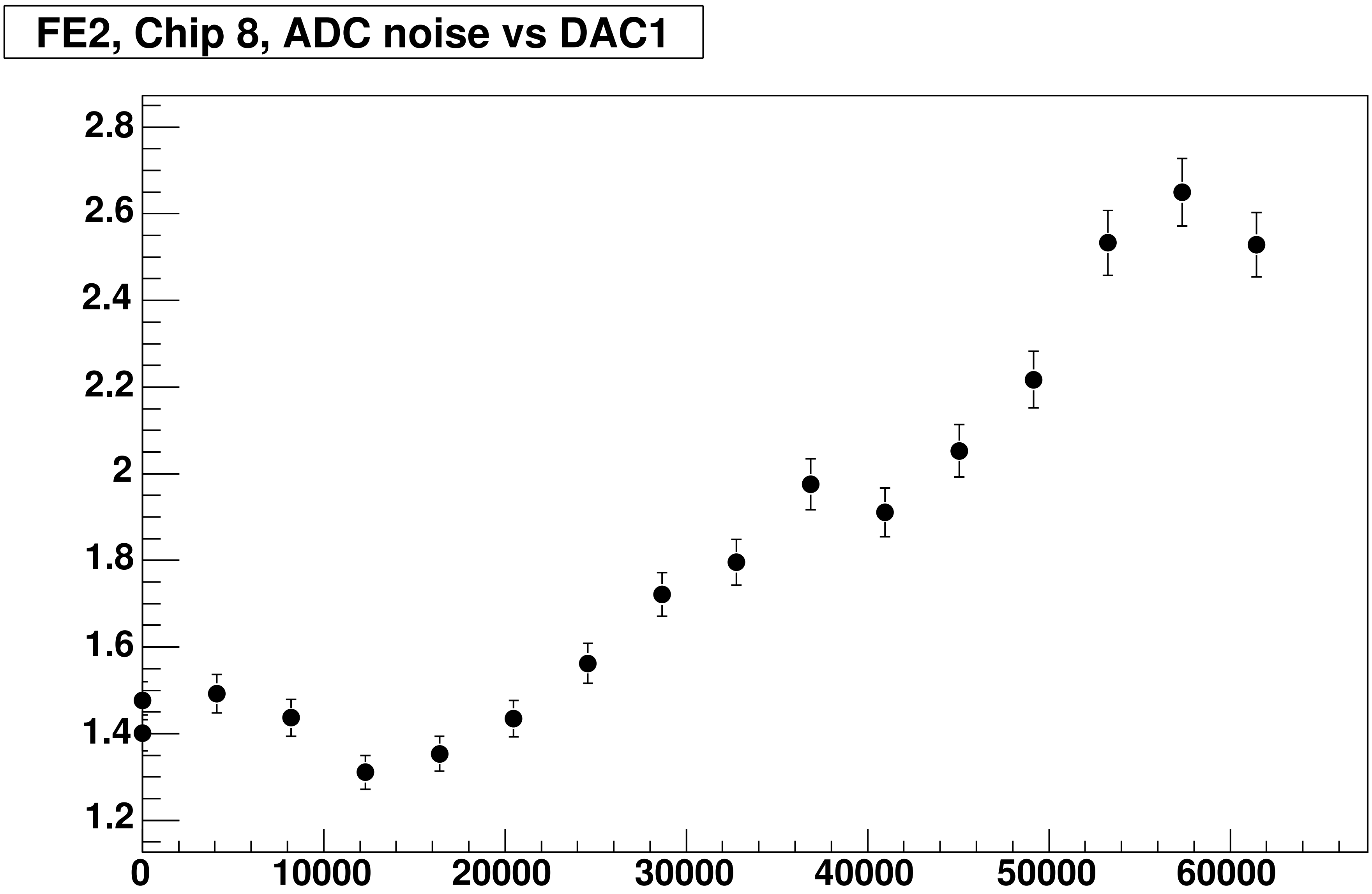
FE2, Chip 8, ADC noise vs DAC0
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

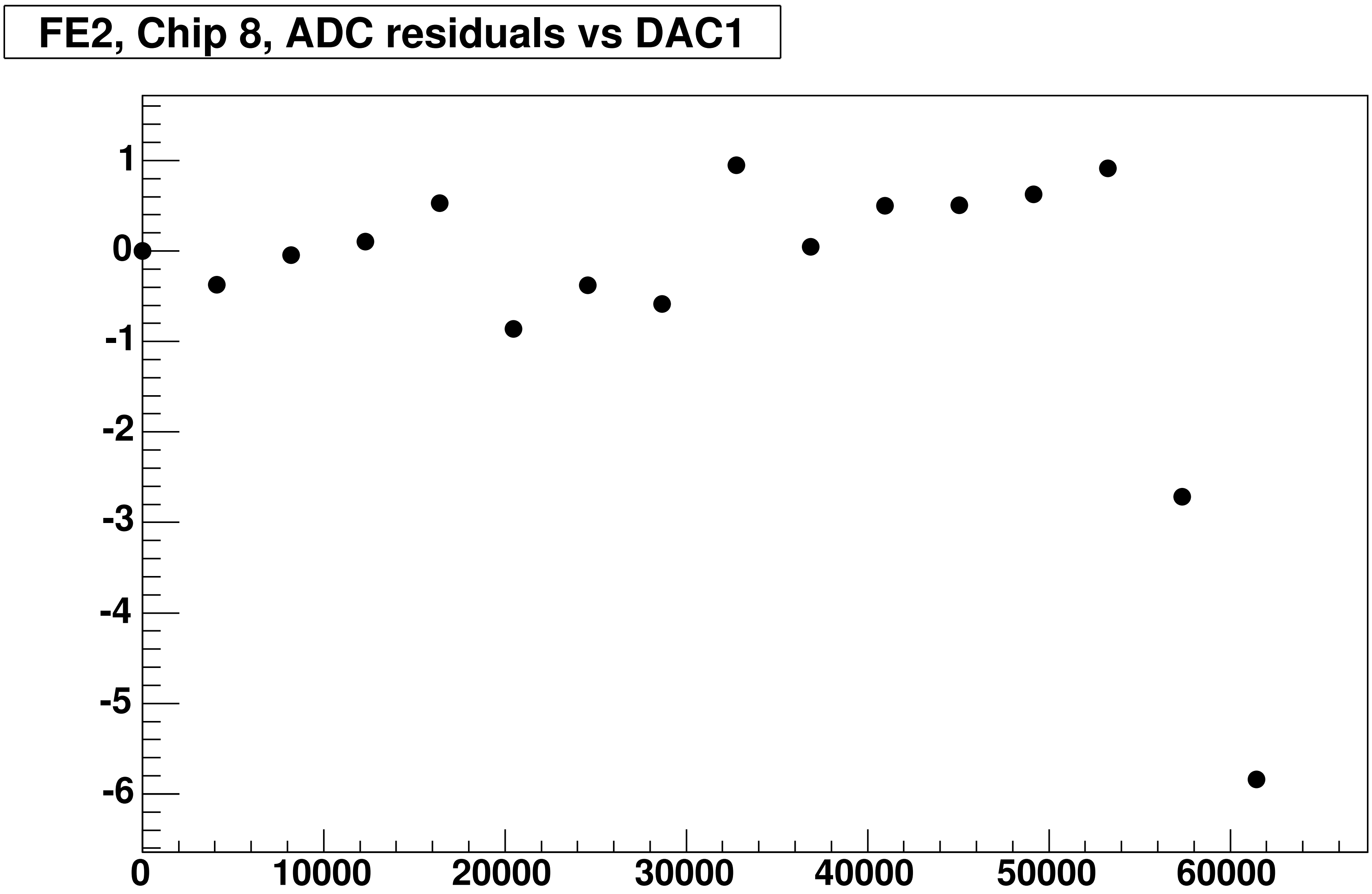


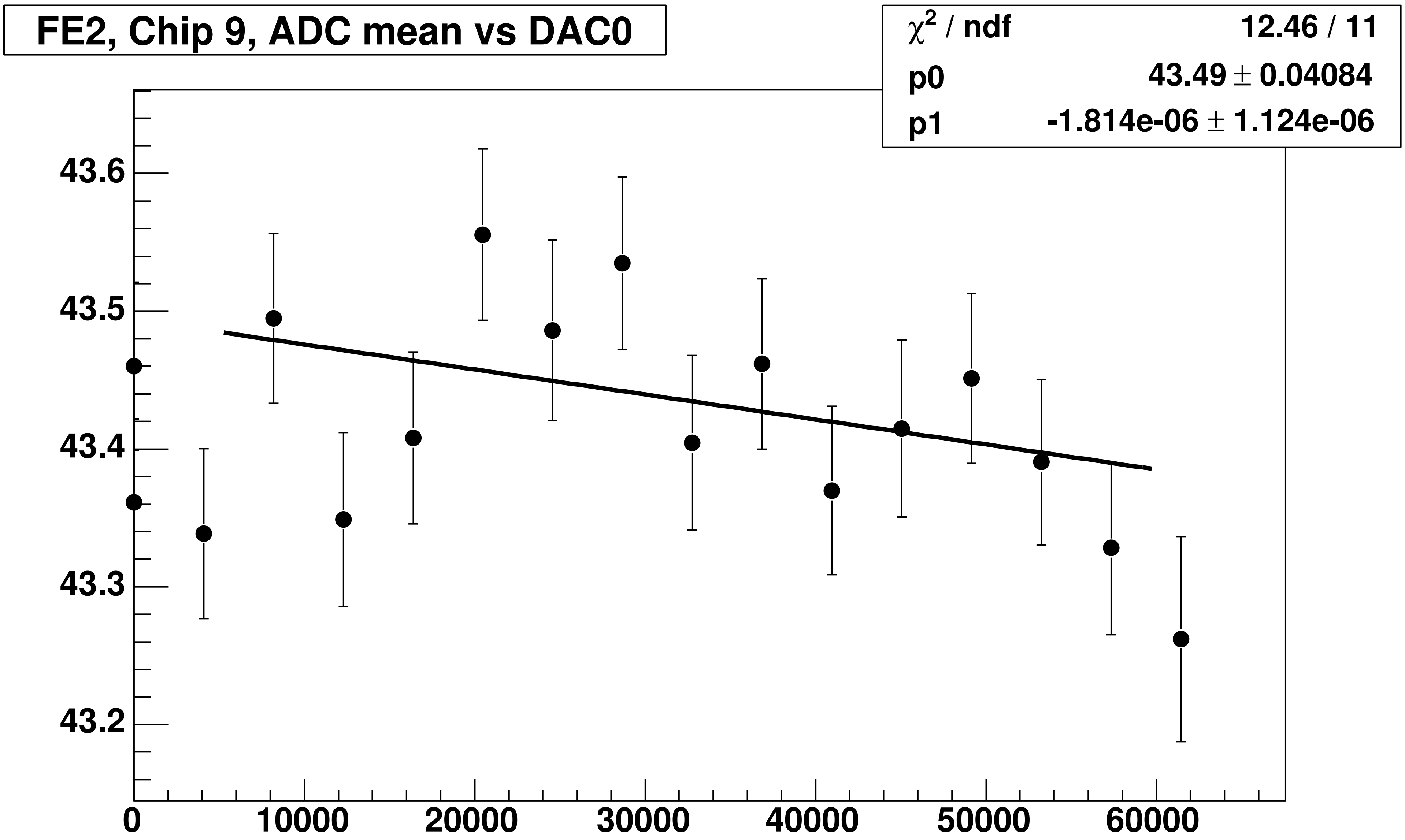
FE2, Chip 8, ADC residuals vs DAC0
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



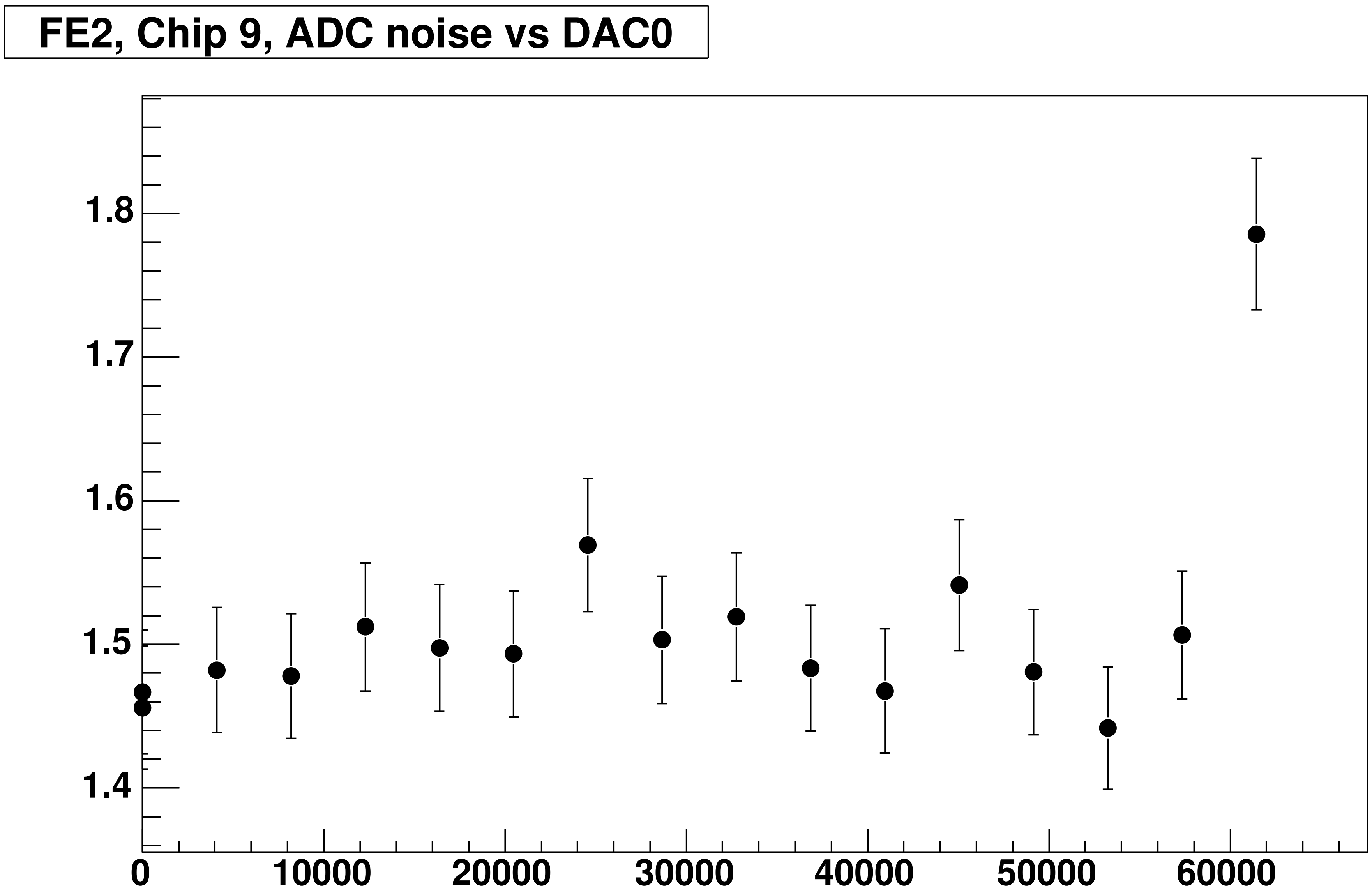
FE2, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1362 / 11
p0 39.29 ± 0.04218
p1 0.4507 ± 1.399e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

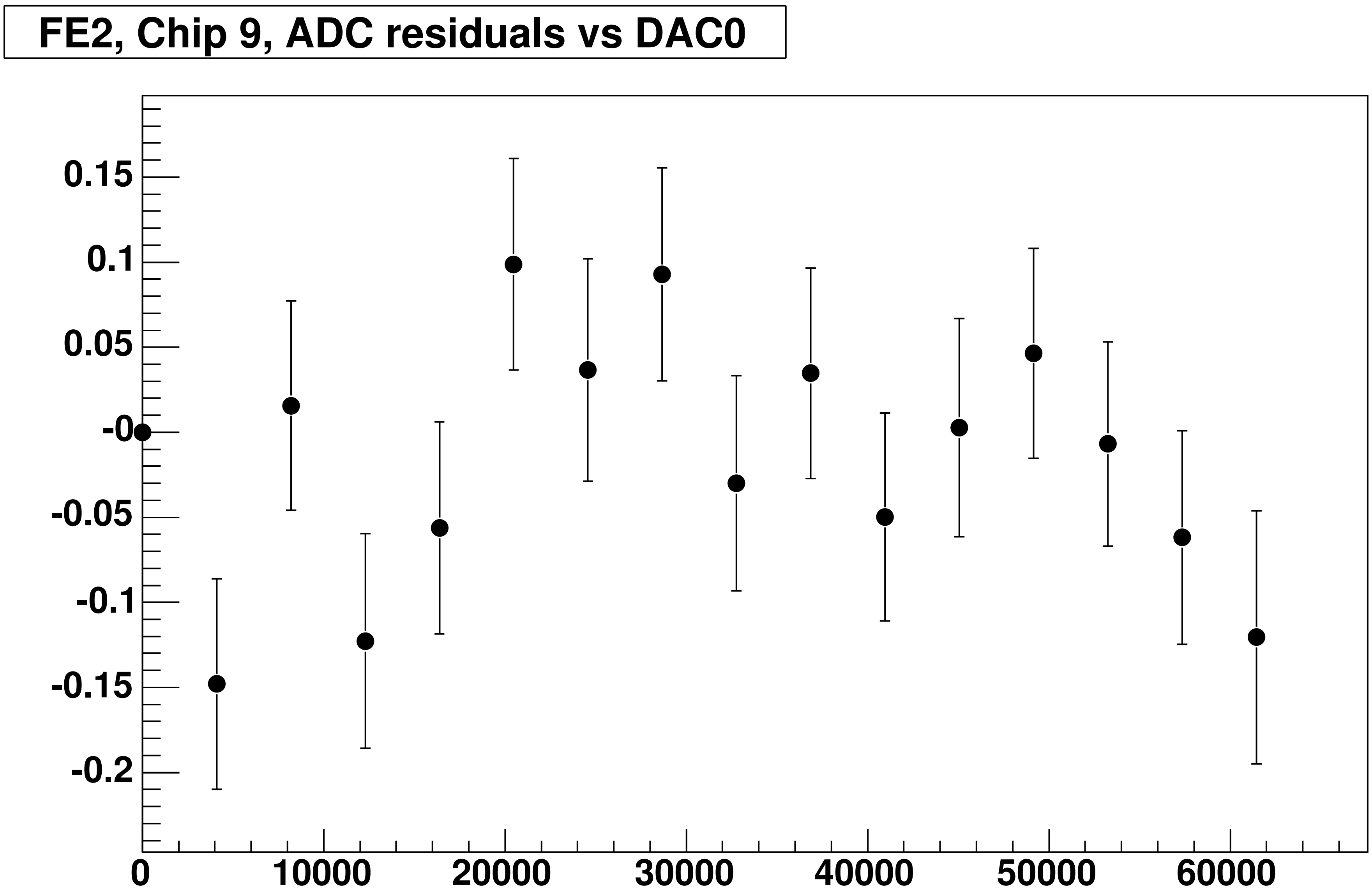

FE2, Chip 8, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

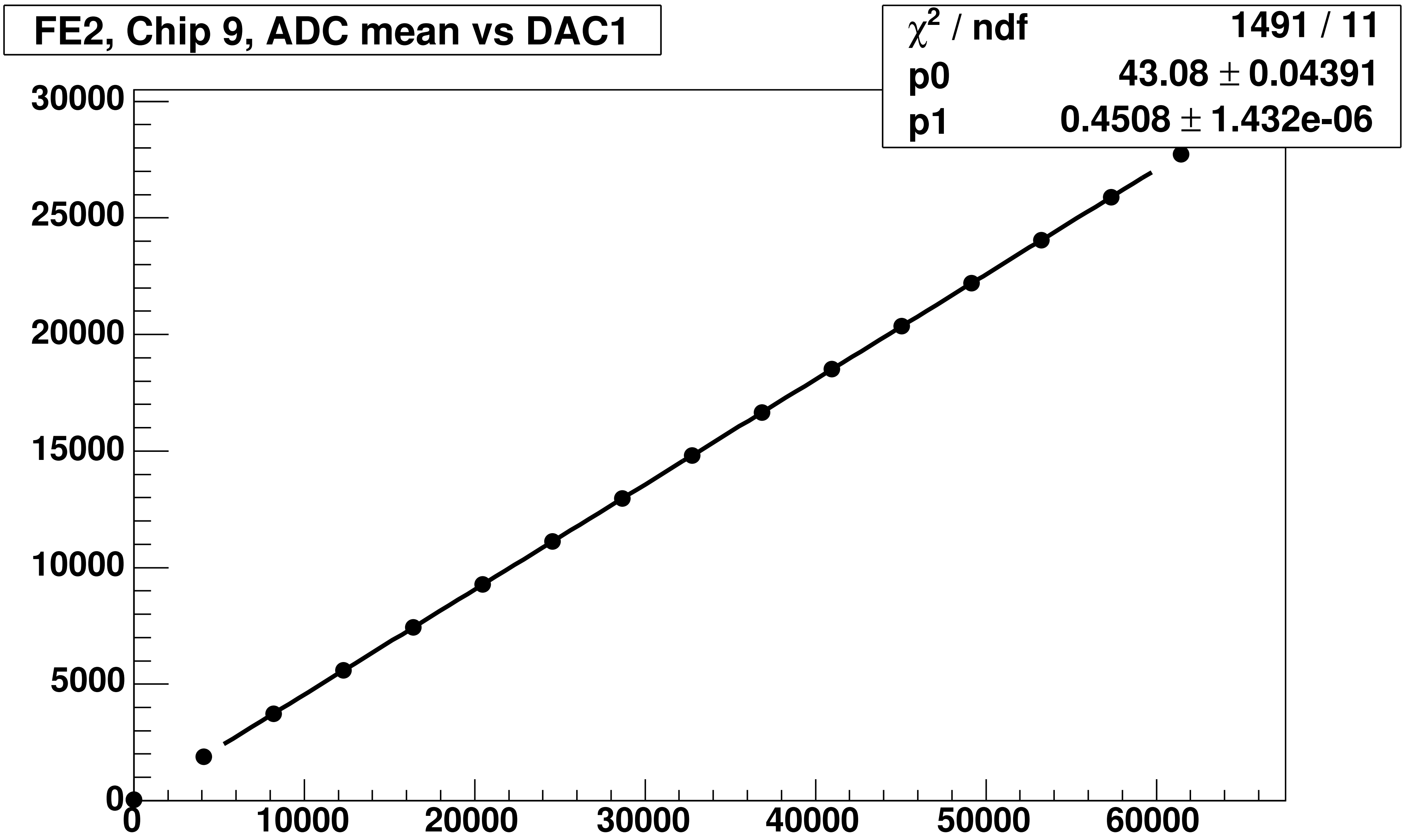

FE2, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

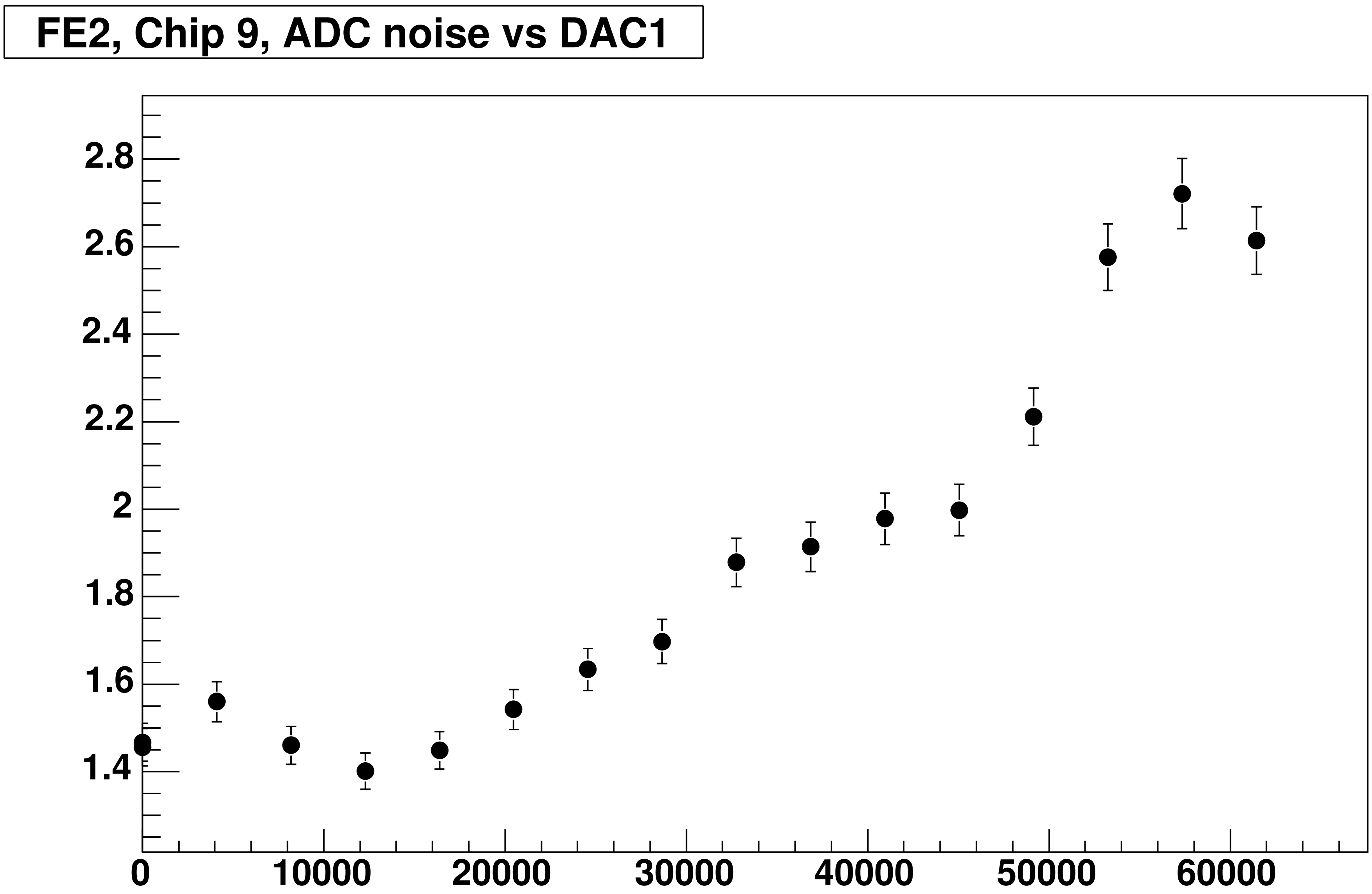


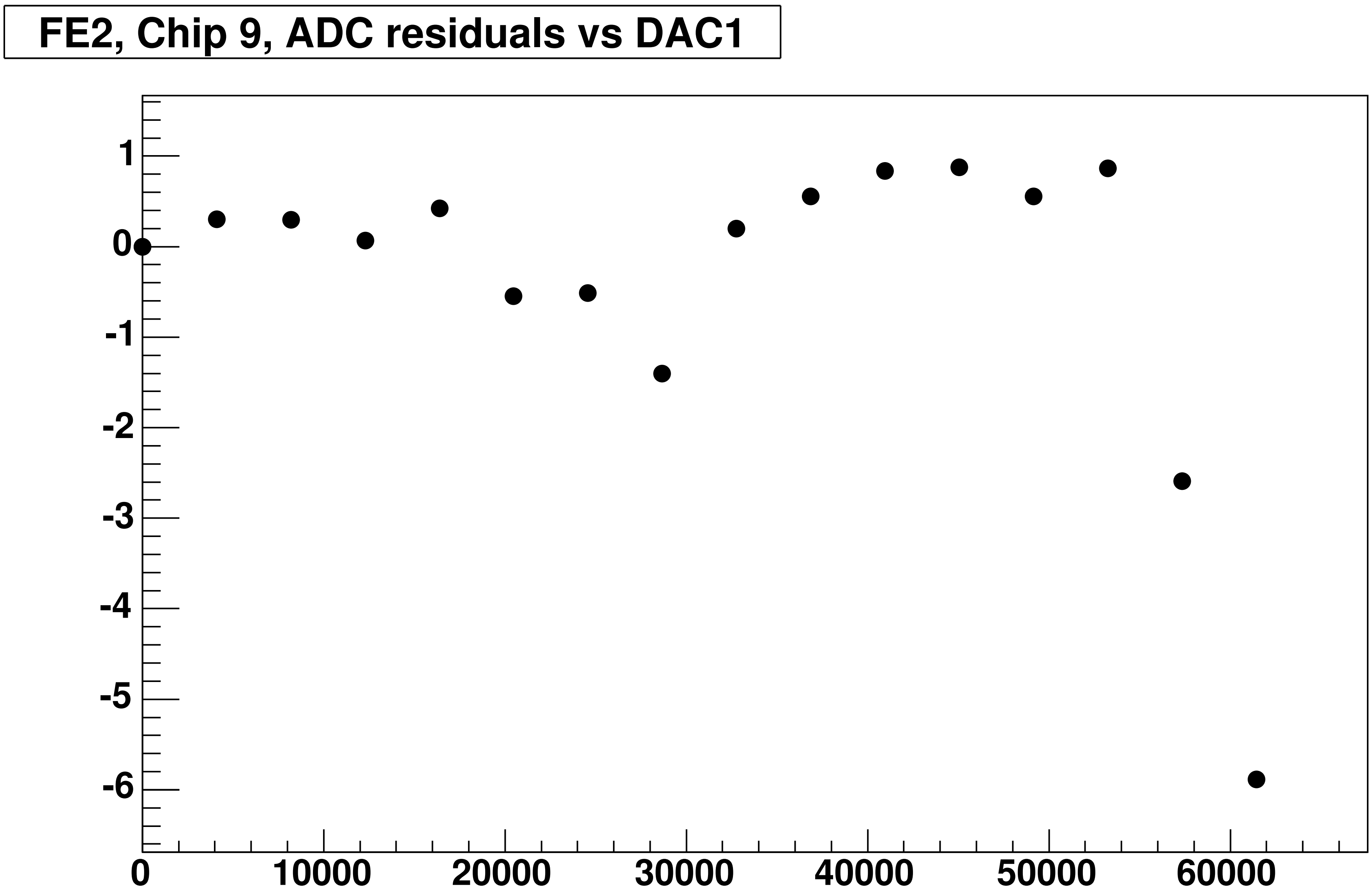
FE2, Chip 9, ADC mean vs DAC0
χ^2 / ndf 12.46 / 11
p0 43.49 ± 0.04084
p1 -1.814e-06 ± 1.124e-06
43.2
43.3
43.4
43.5
43.6
0
10000
20000
30000
40000
50000
60000

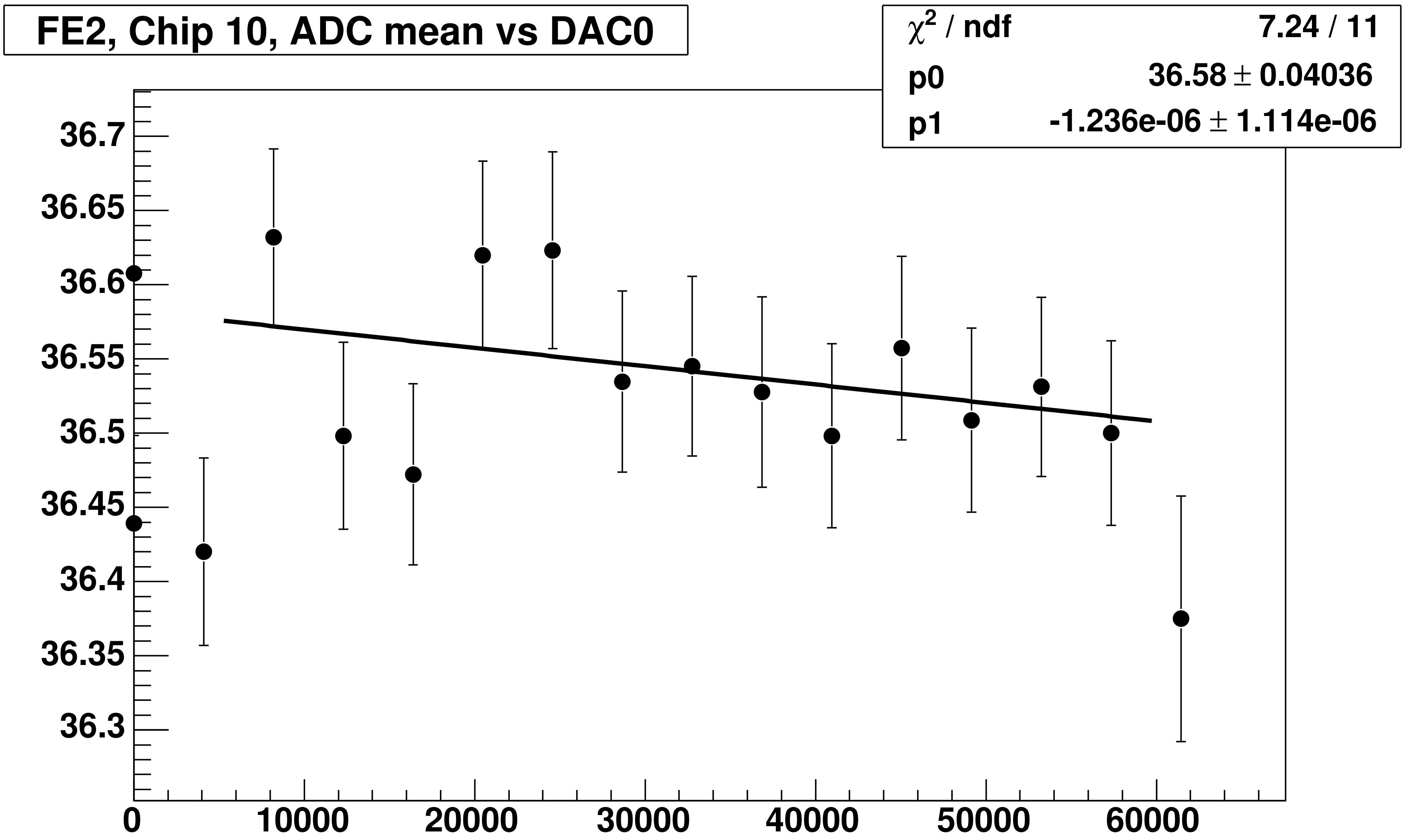

FE2, Chip 9, ADC noise vs DAC0
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

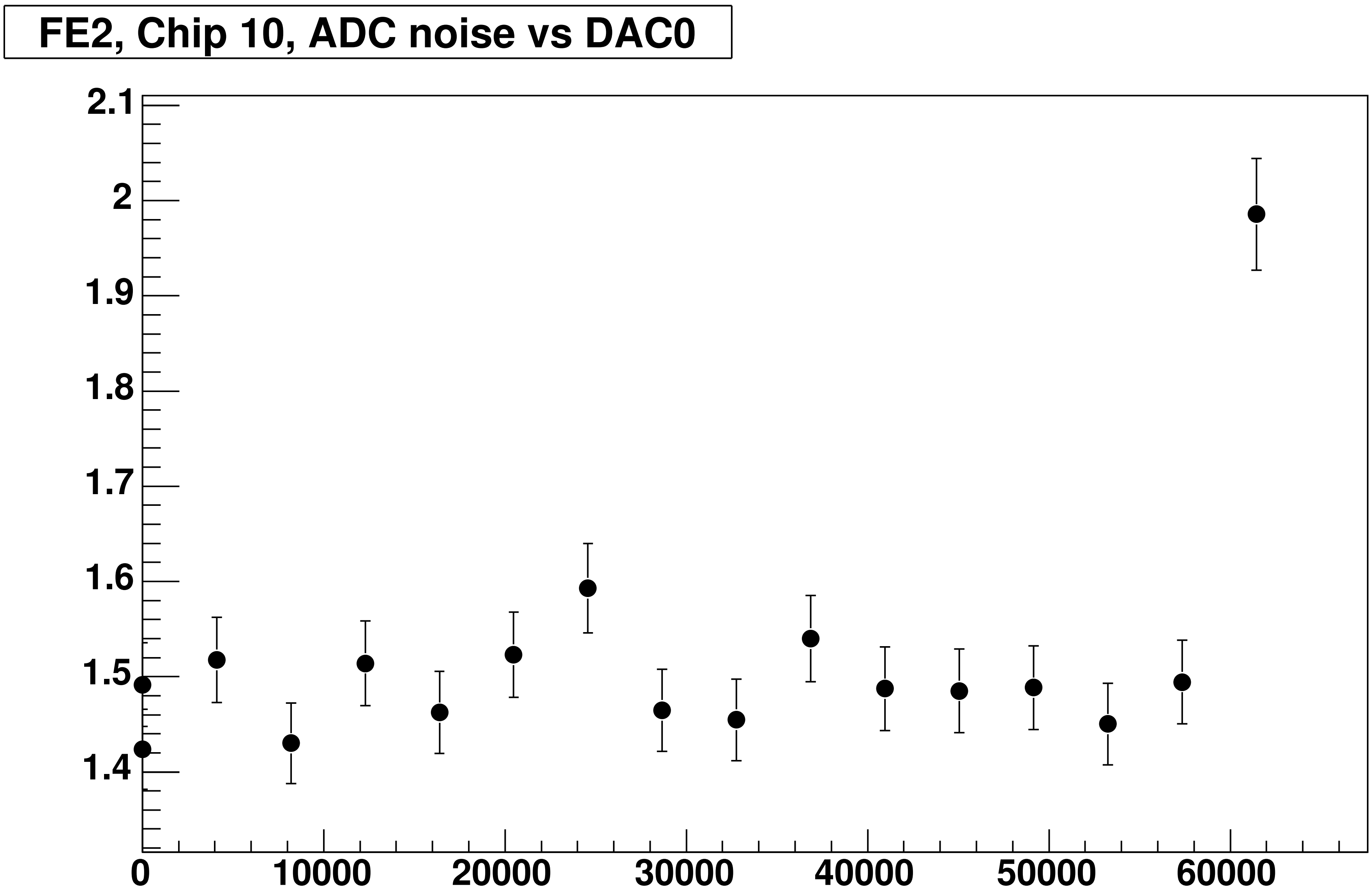

FE2, Chip 9, ADC residuals vs DAC0
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

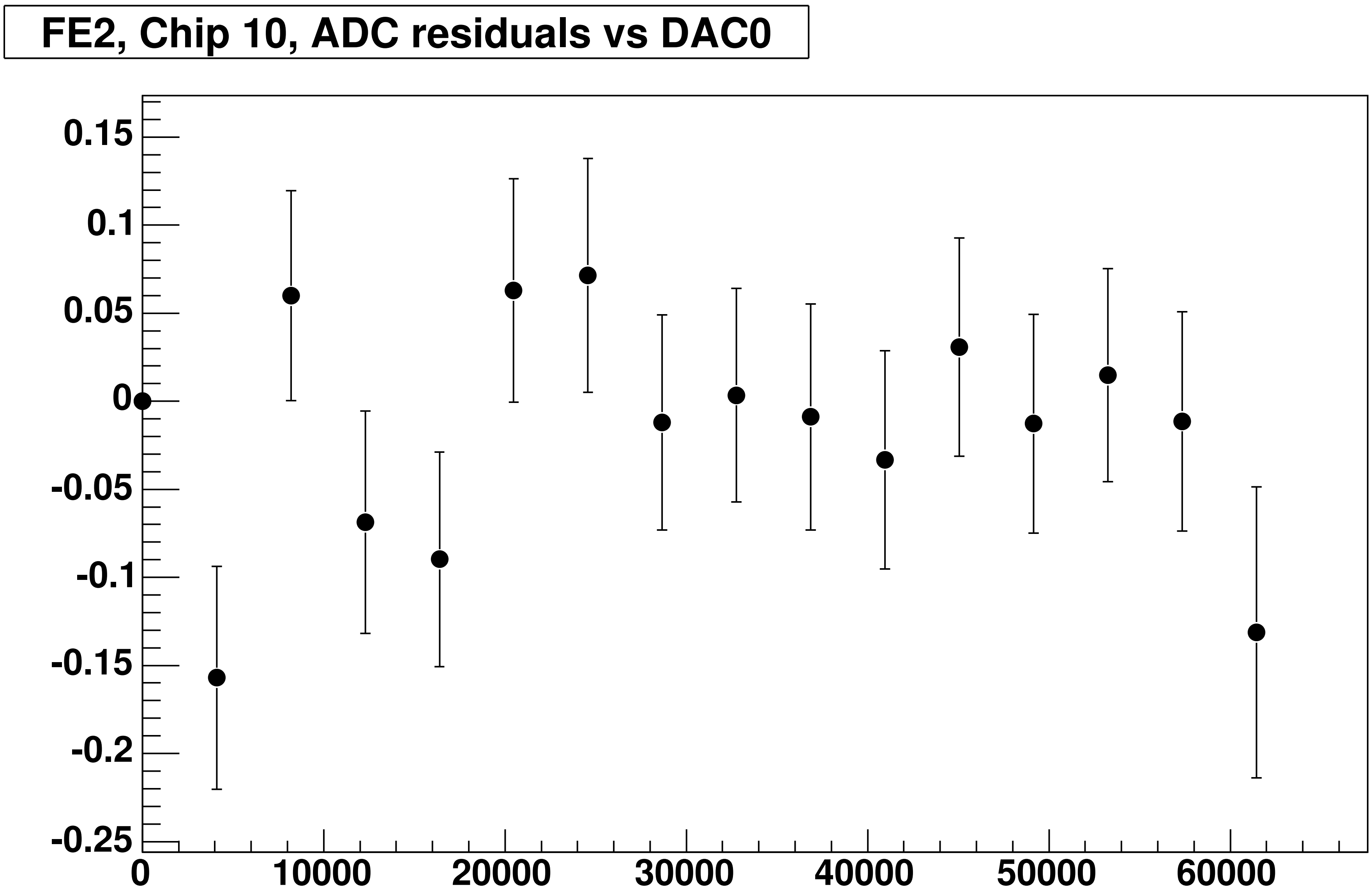

FE2, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1491 / 11
p0 43.08 ± 0.04391
p1 0.4508 ± 1.432e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

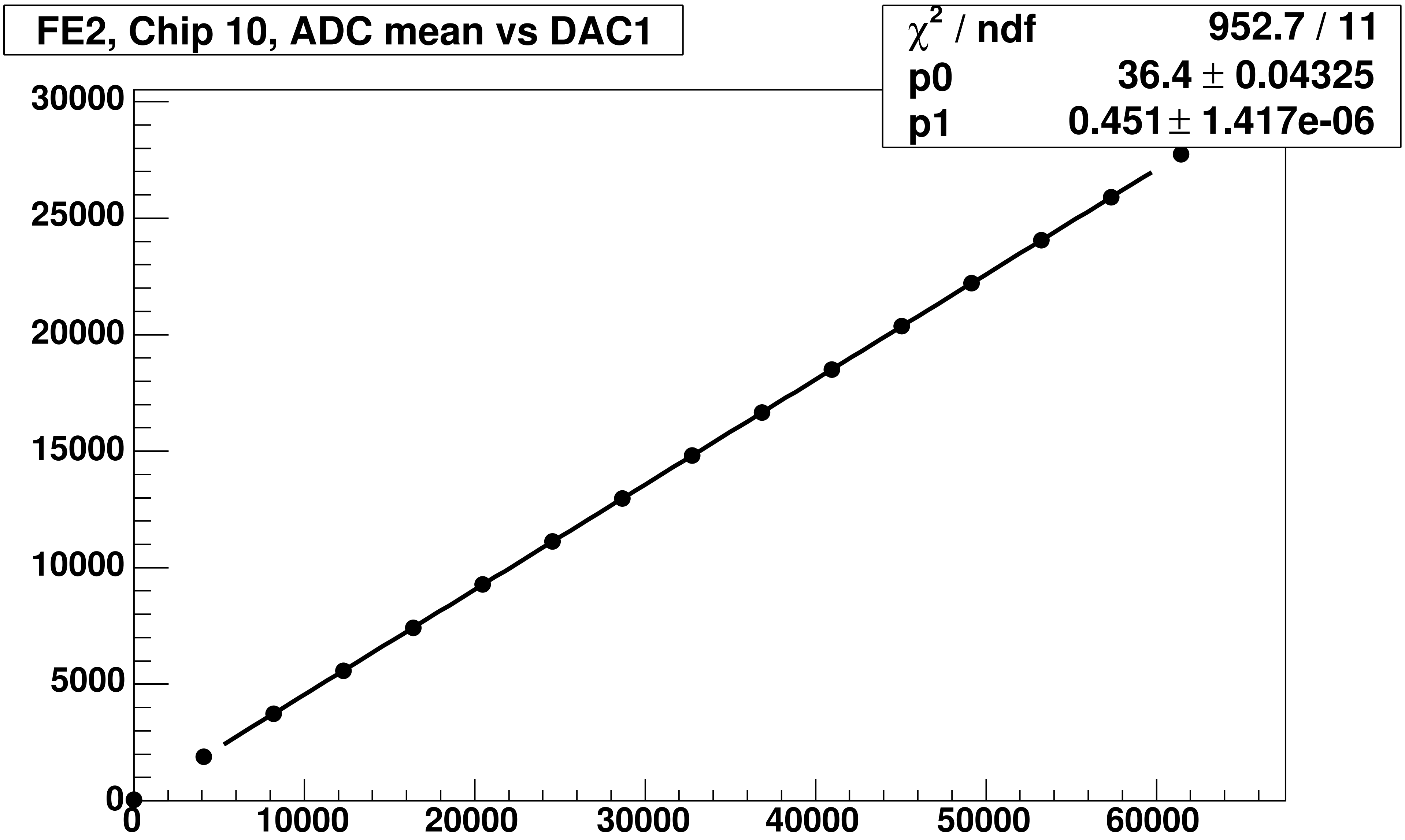

FE2, Chip 9, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

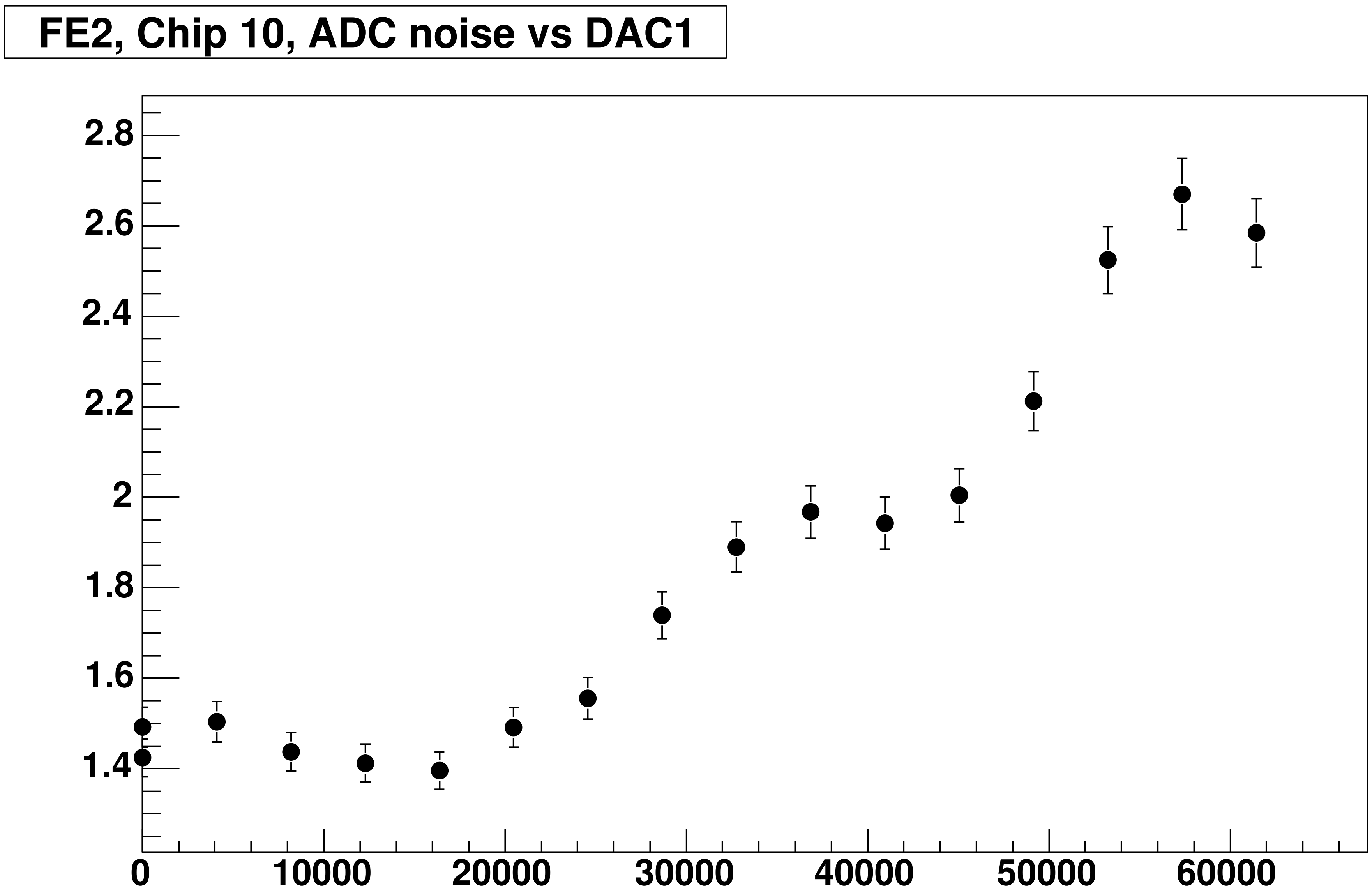

FE2, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

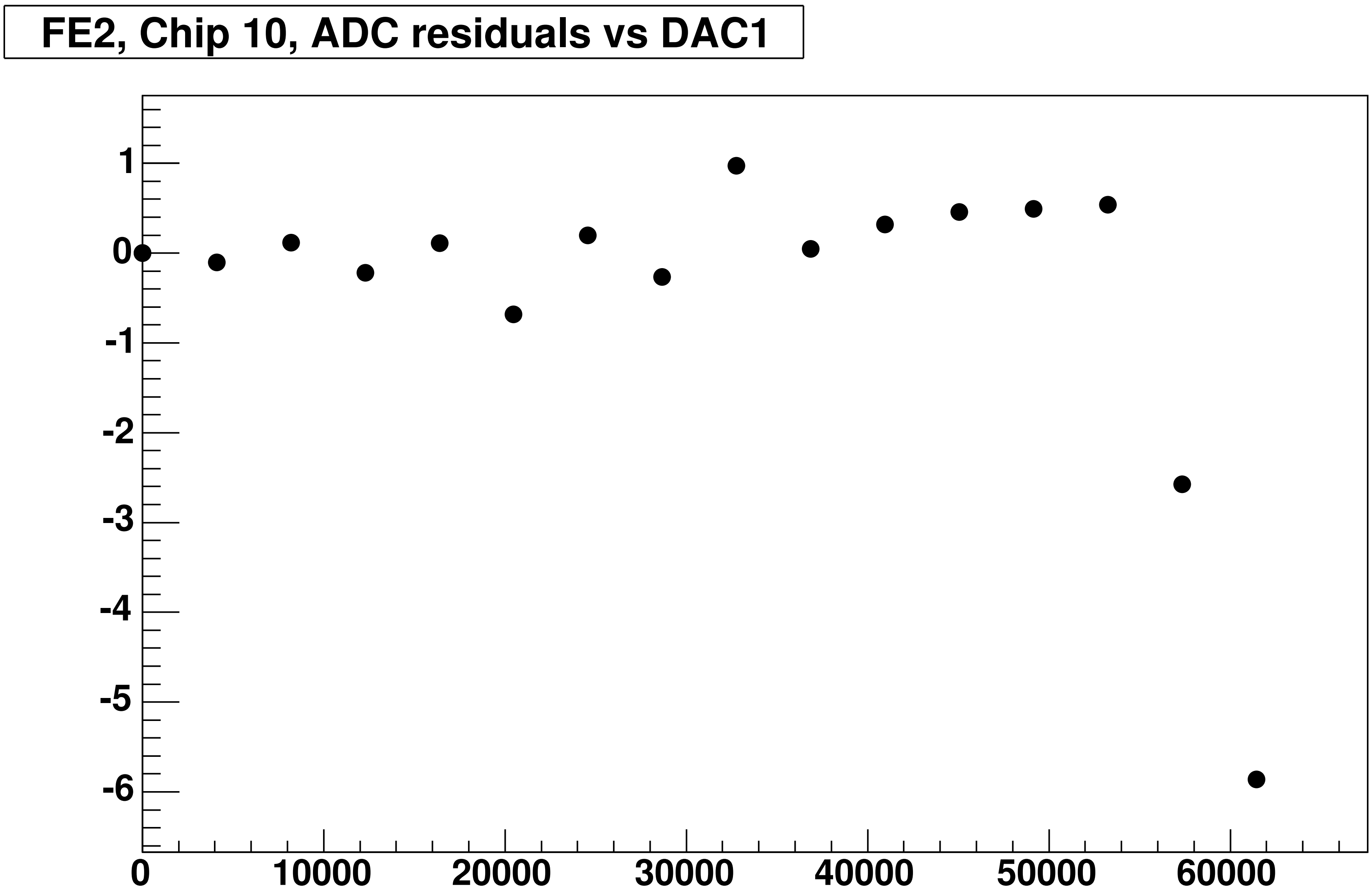

FE2, Chip 10, ADC mean vs DAC0
χ^2 / ndf 7.24 / 11
p0 36.58 ± 0.04036
p1 -1.236e-06 ± 1.114e-06
36.7
36.65
36.6
36.55
36.5
36.45
36.4
36.35
36.3
0
10000
20000
30000
40000
50000
60000


FE2, Chip 10, ADC noise vs DAC0
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

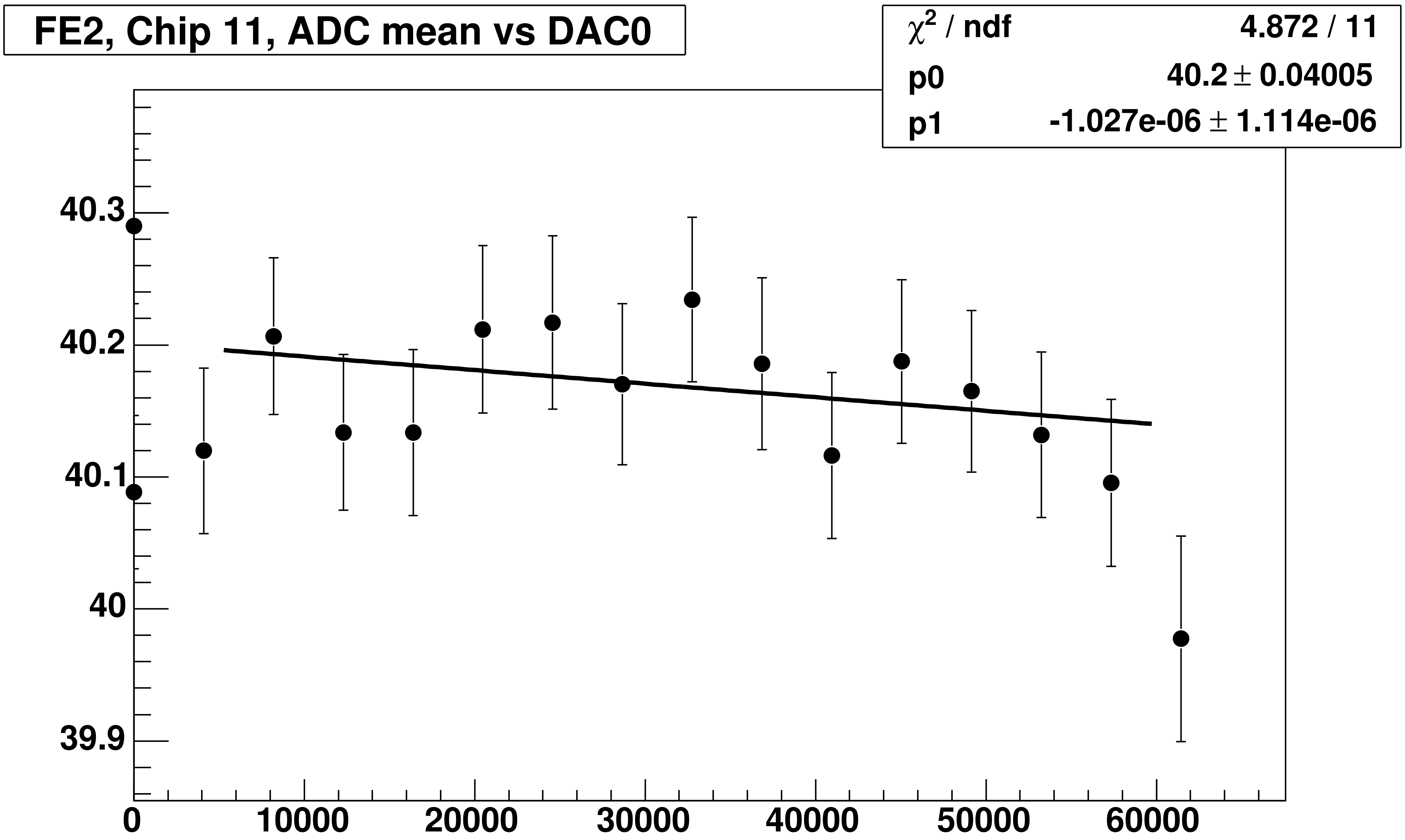

FE2, Chip 10, ADC residuals vs DAC0
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000


FE2, Chip 10, ADC mean vs DAC1
χ² / ndf 952.7 / 11
p0 36.4 ± 0.04325
p1 0.451 ± 1.417e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

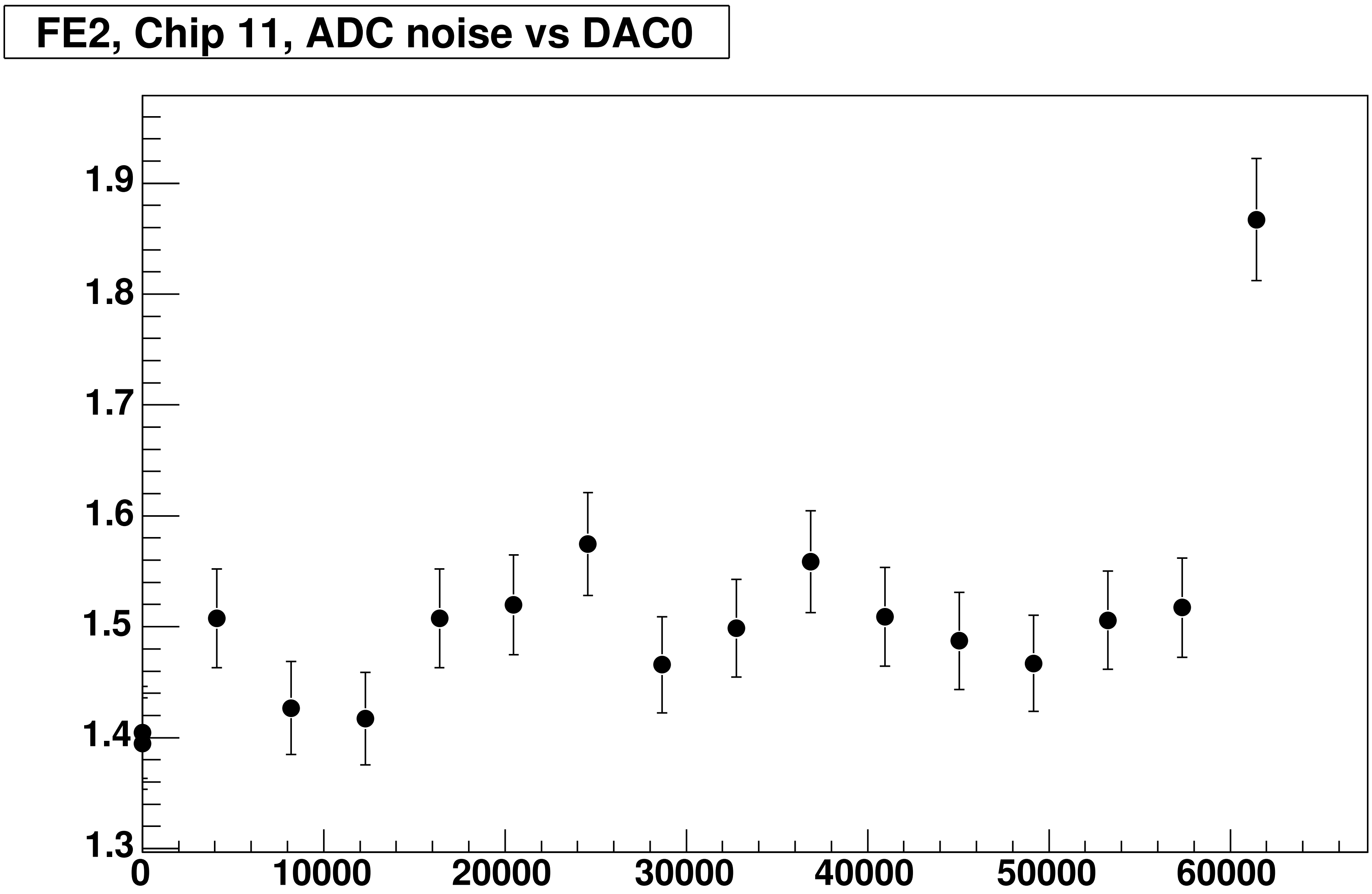

FE2, Chip 10, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



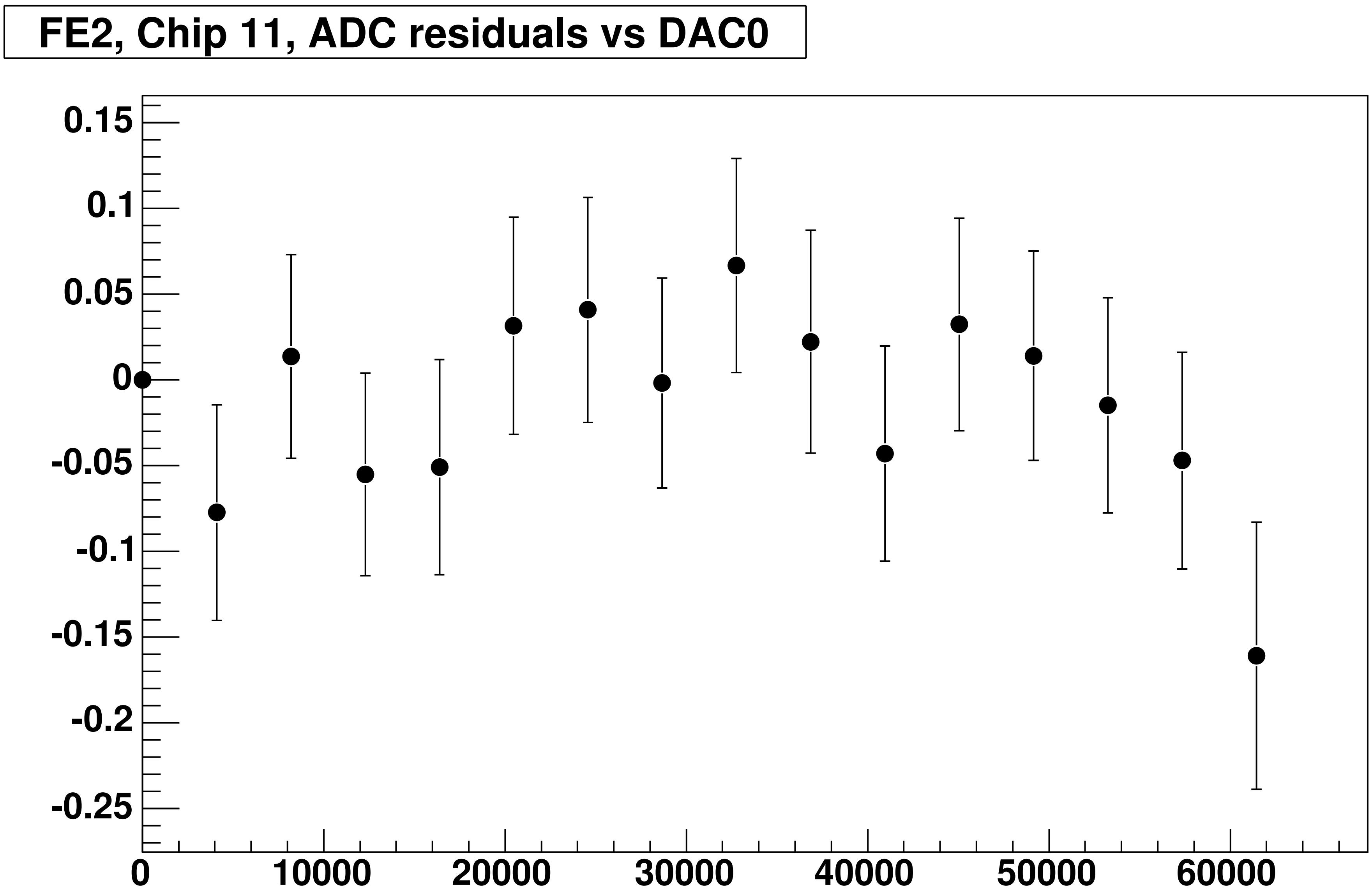
FE2, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



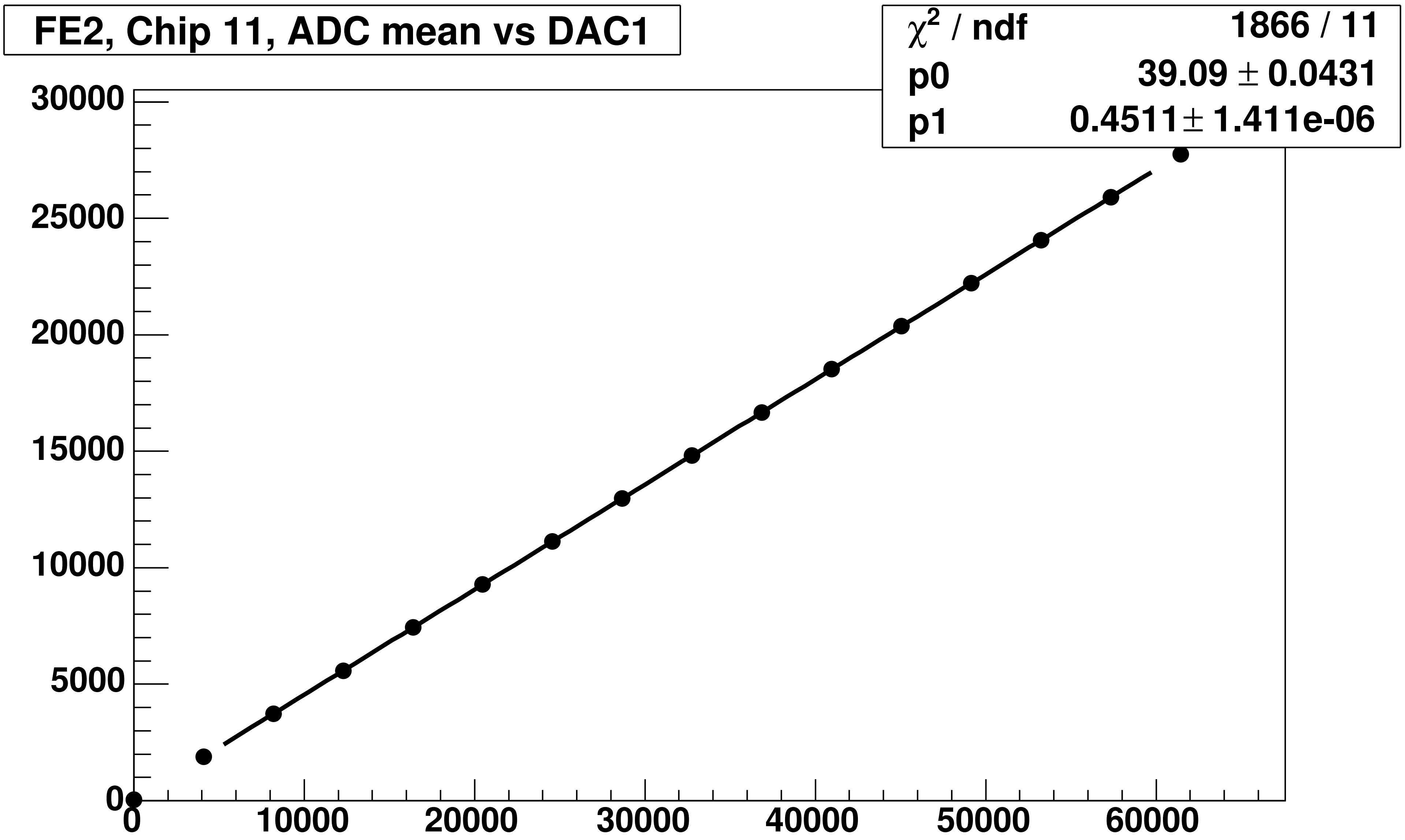
FE2, Chip 11, ADC mean vs DAC0
χ2 / ndf 4.872 / 11
p0 40.2 ± 0.04005
p1 -1.027e-06 ± 1.114e-06
40.3
40.2
40.1
40
39.9
0
10000
20000
30000
40000
50000
60000



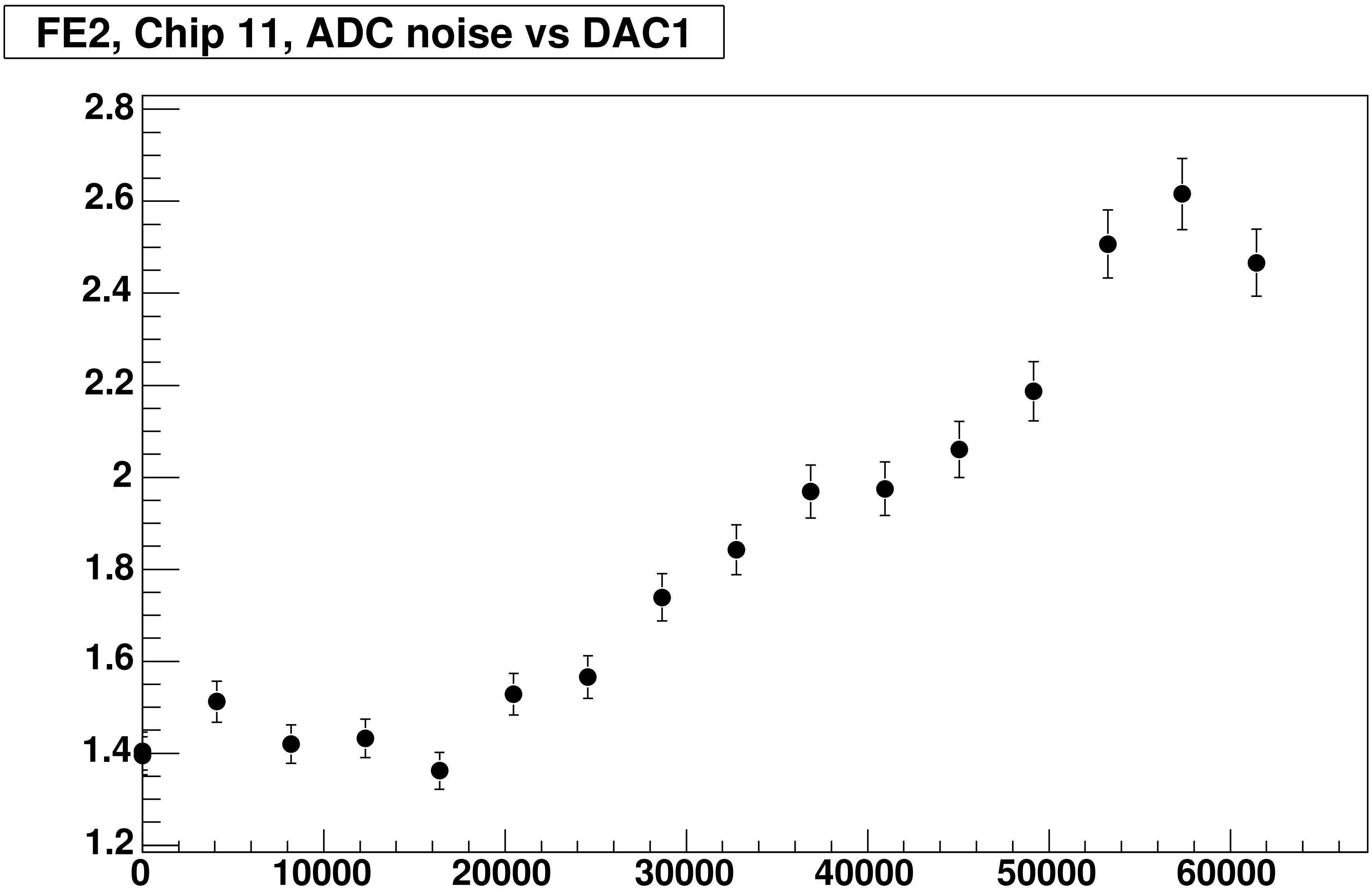
FE2, Chip 11, ADC noise vs DAC0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000



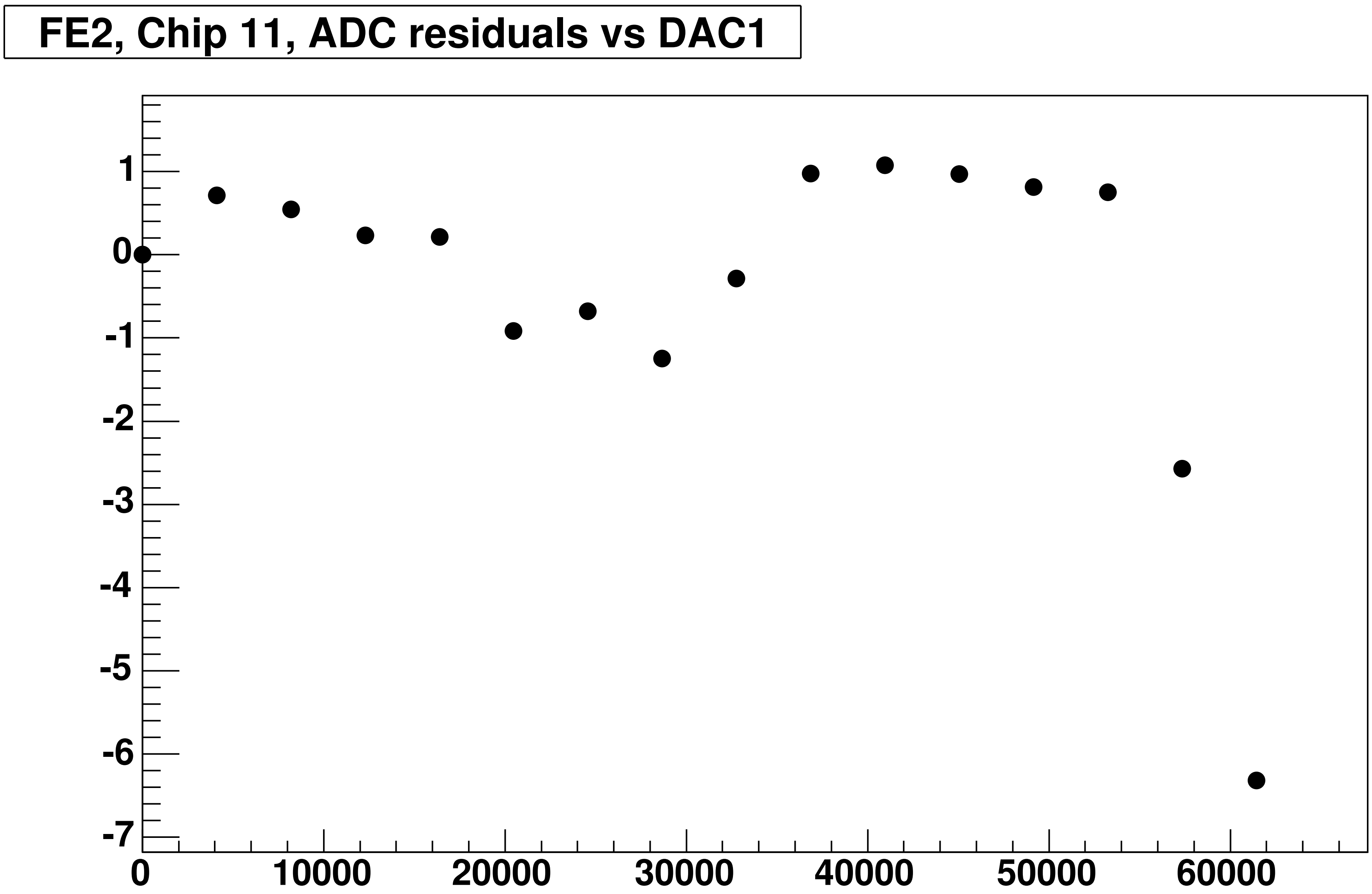
FE2, Chip 11, ADC residuals vs DAC0
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000



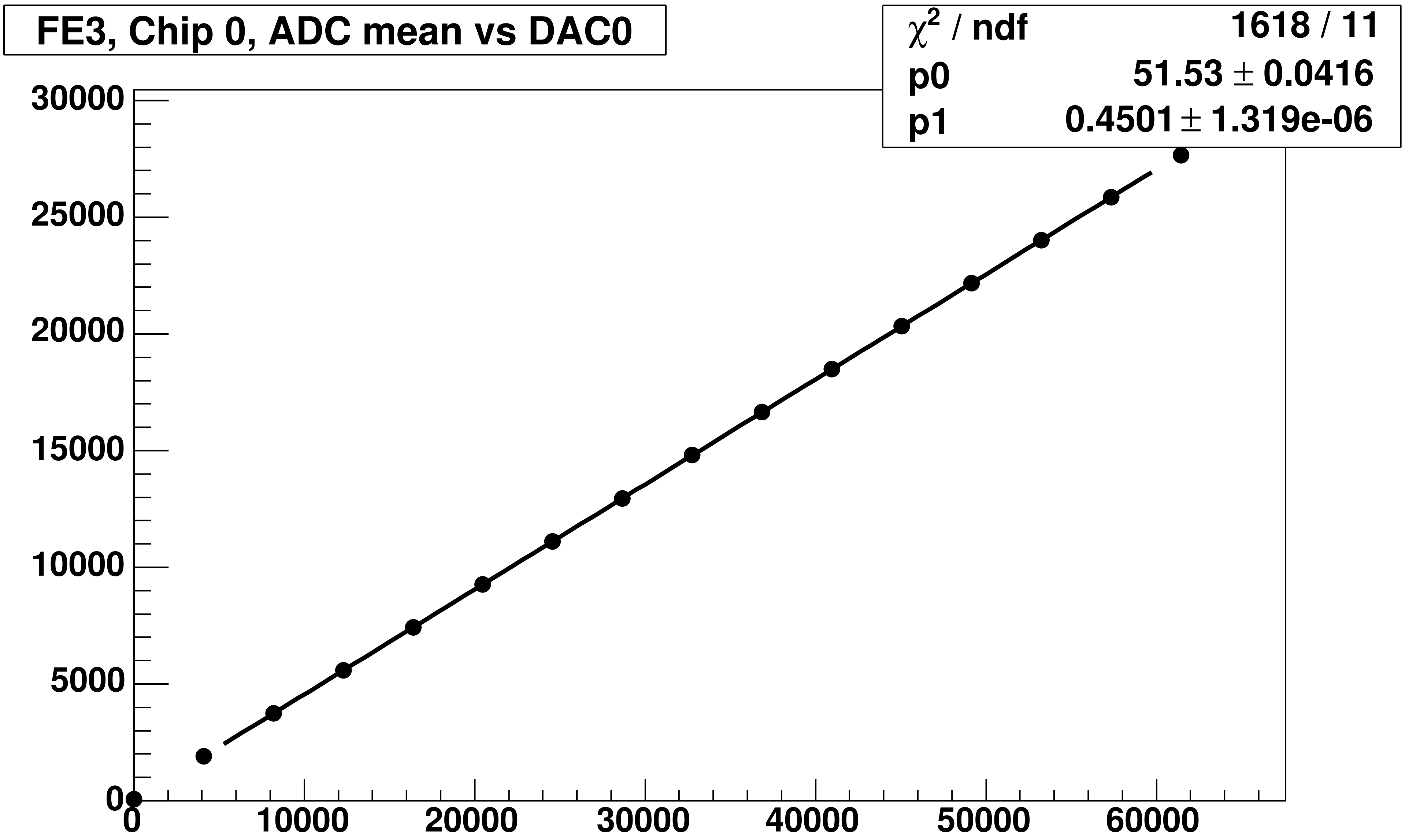
FE2, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1866 / 11
p0 39.09 ± 0.0431
p1 0.4511 ± 1.411e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



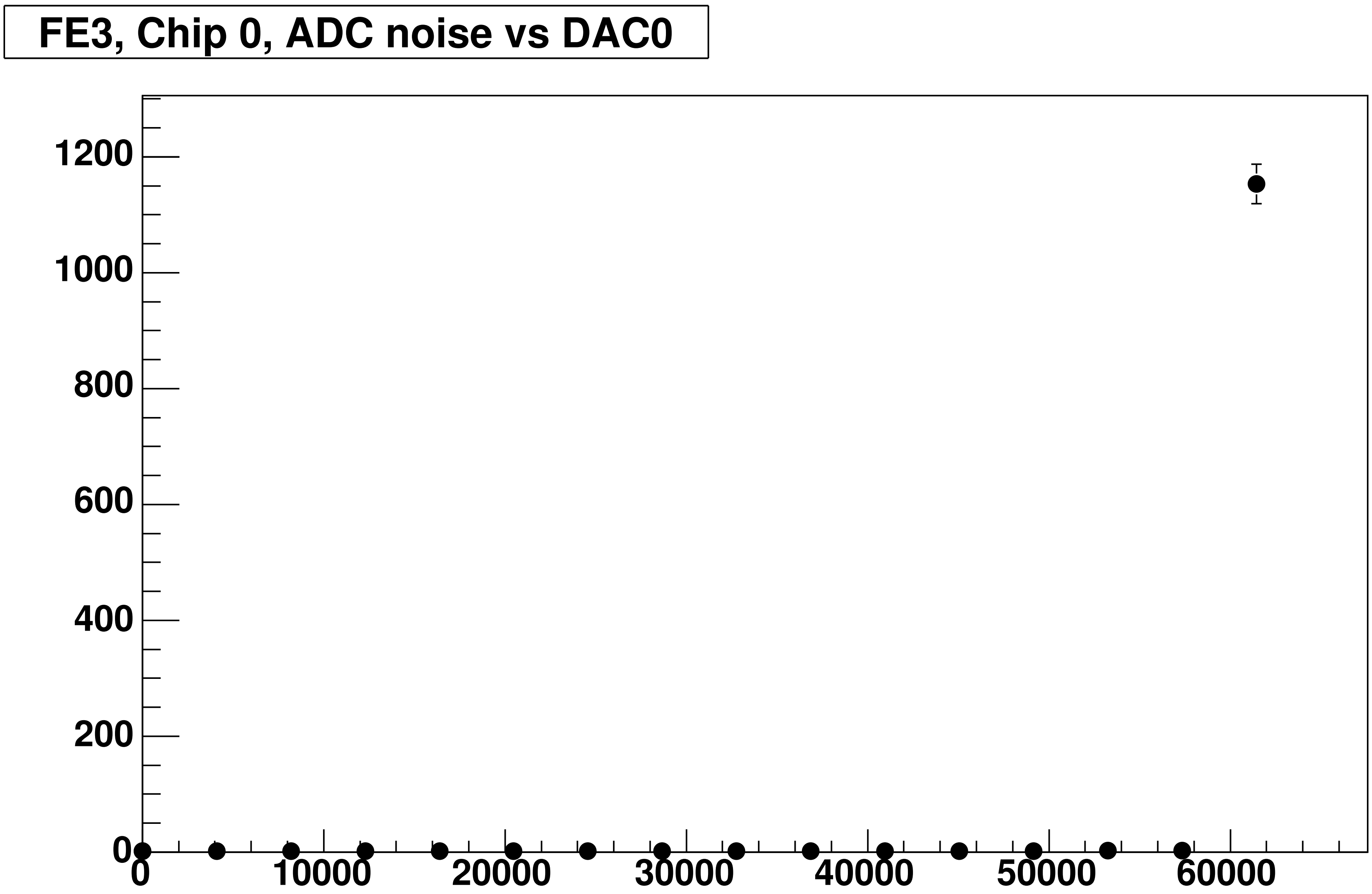
FE2, Chip 11, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

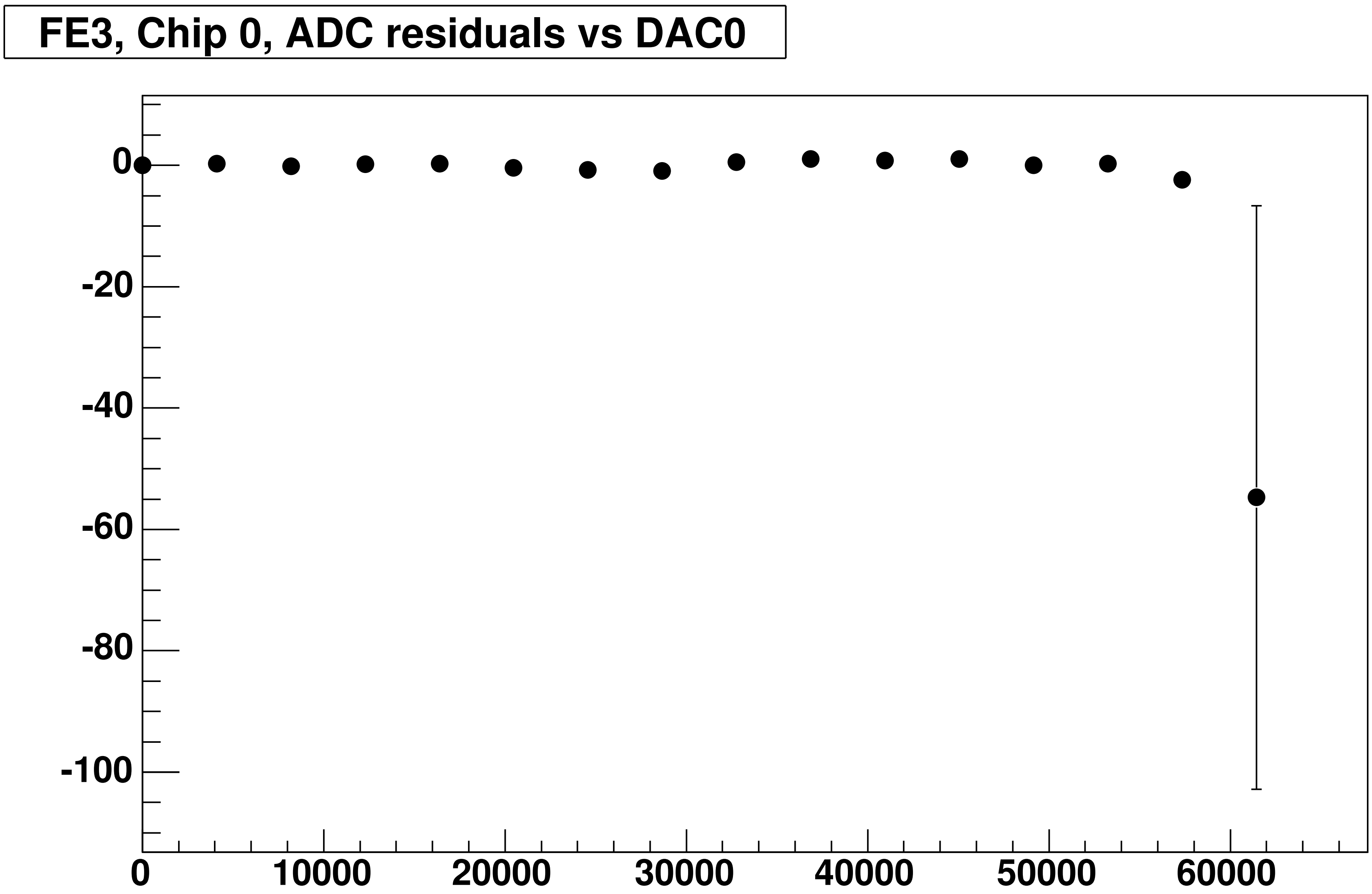


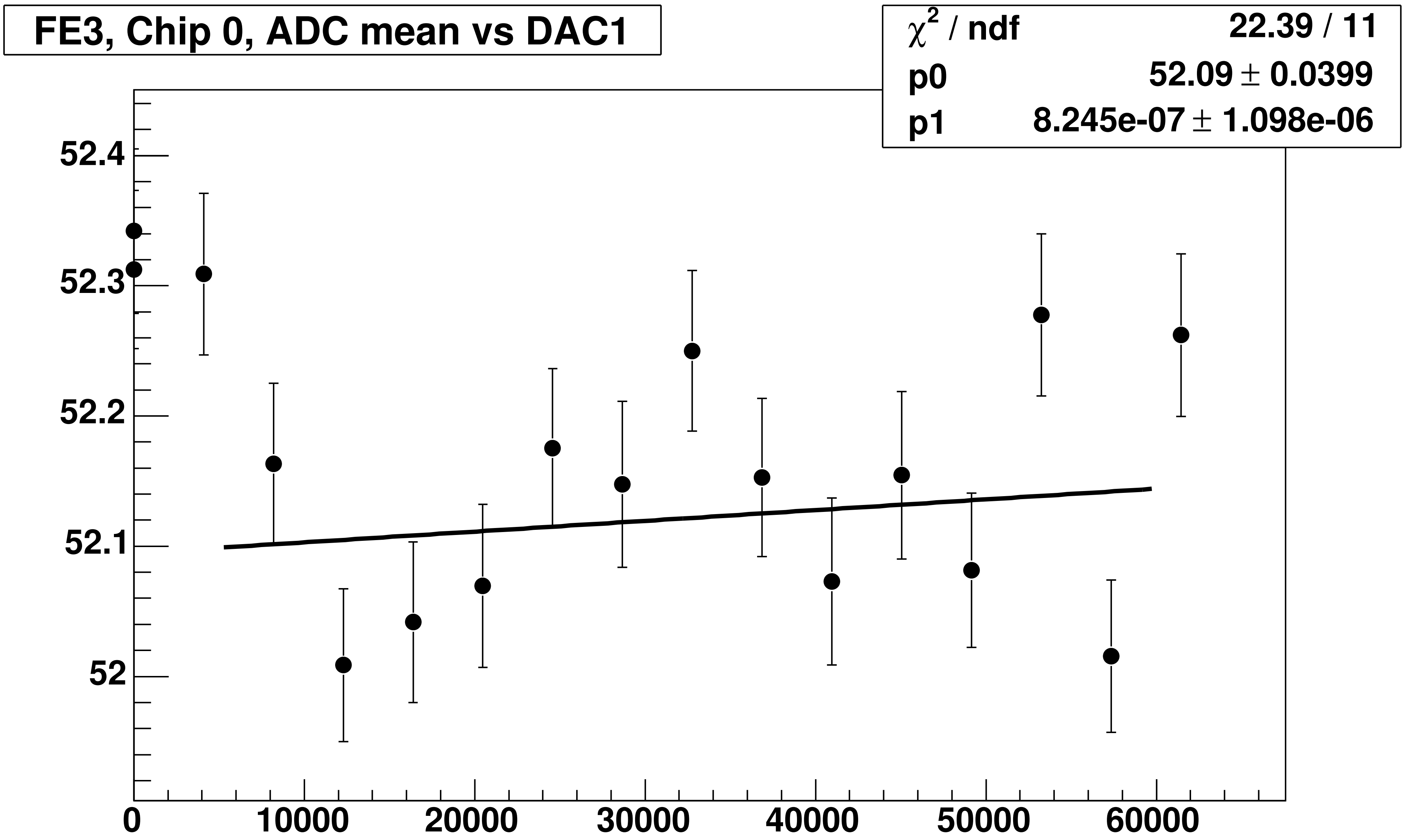
FE2, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000



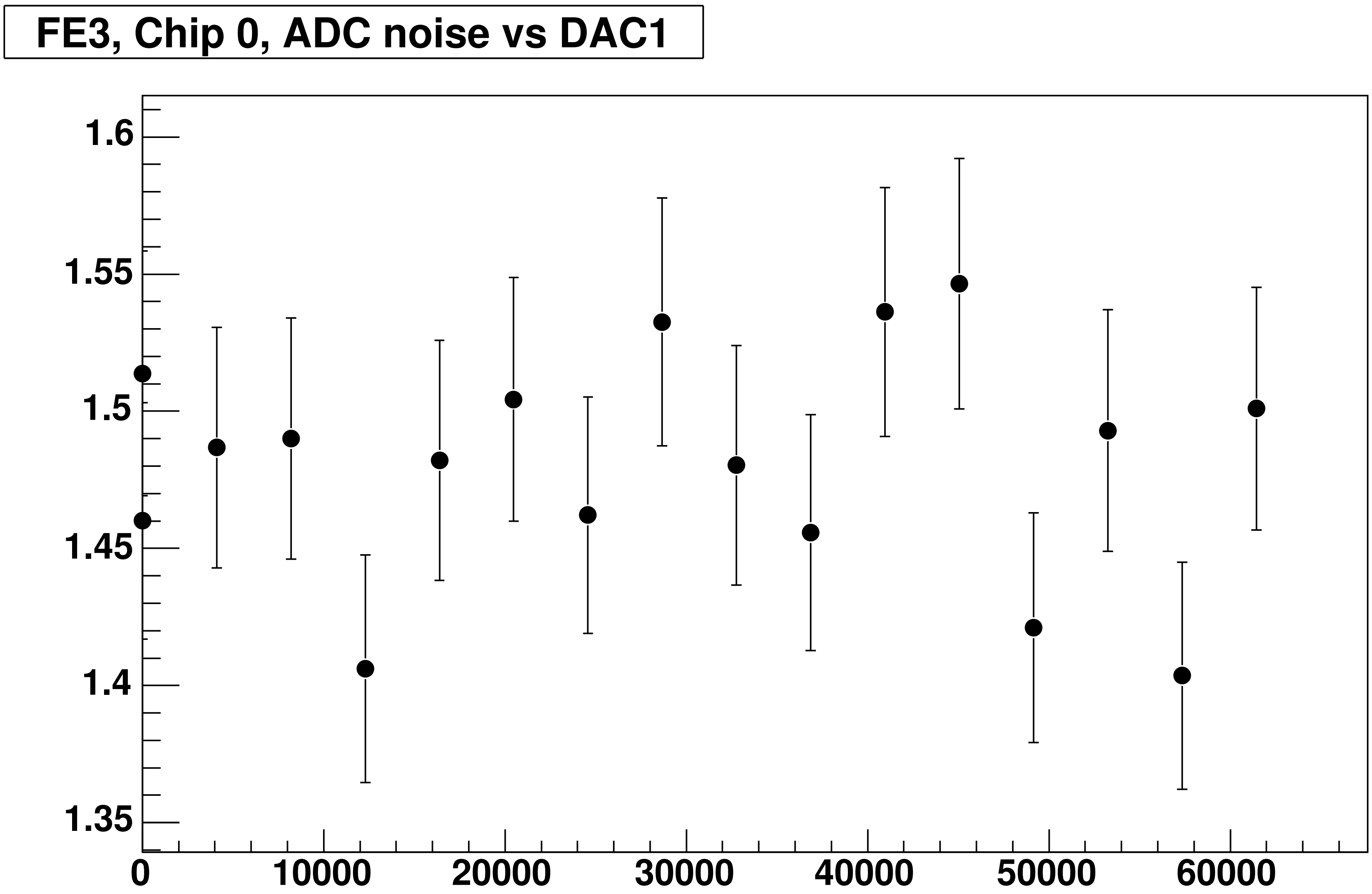
FE3, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1618 / 11
p0 51.53 ± 0.0416
p1 0.4501 ± 1.319e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

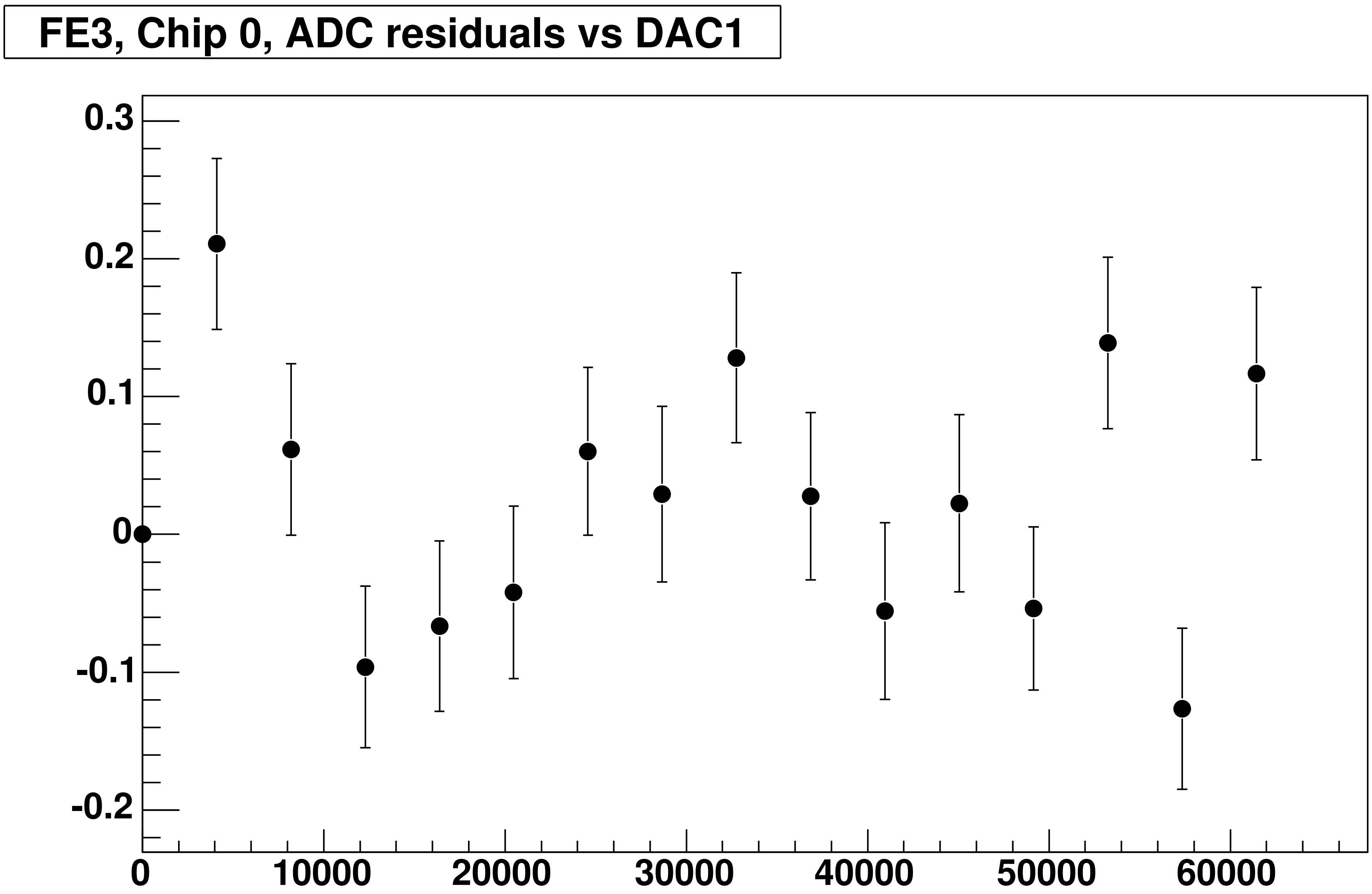

FE3, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

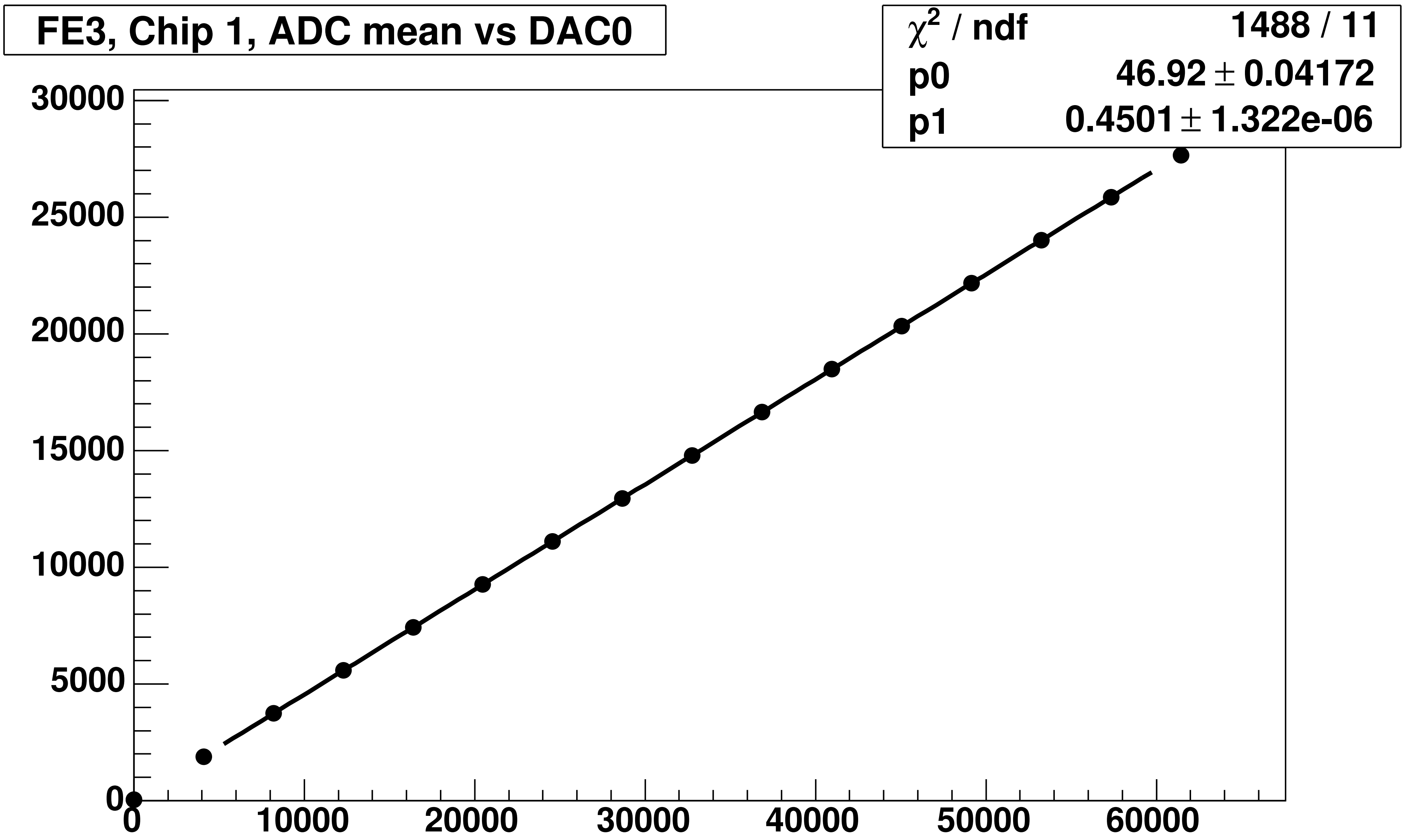


FE3, Chip 0, ADC mean vs DAC1
χ2 / ndf 22.39 / 11
p0 52.09 ± 0.0399
p1 8.245e-07 ± 1.098e-06
52.4
52.3
52.2
52.1
52
0
10000
20000
30000
40000
50000
60000

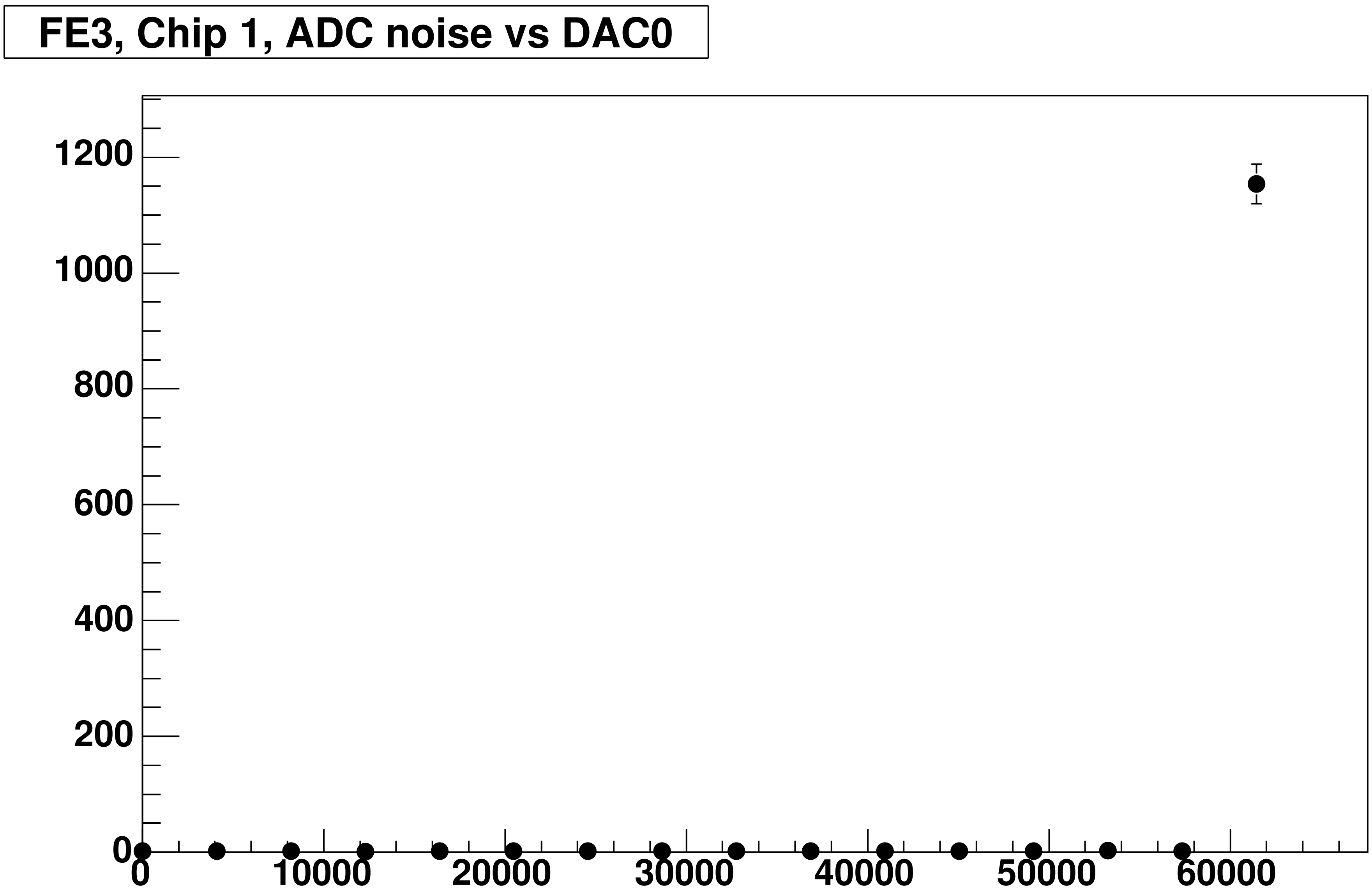

FE3, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

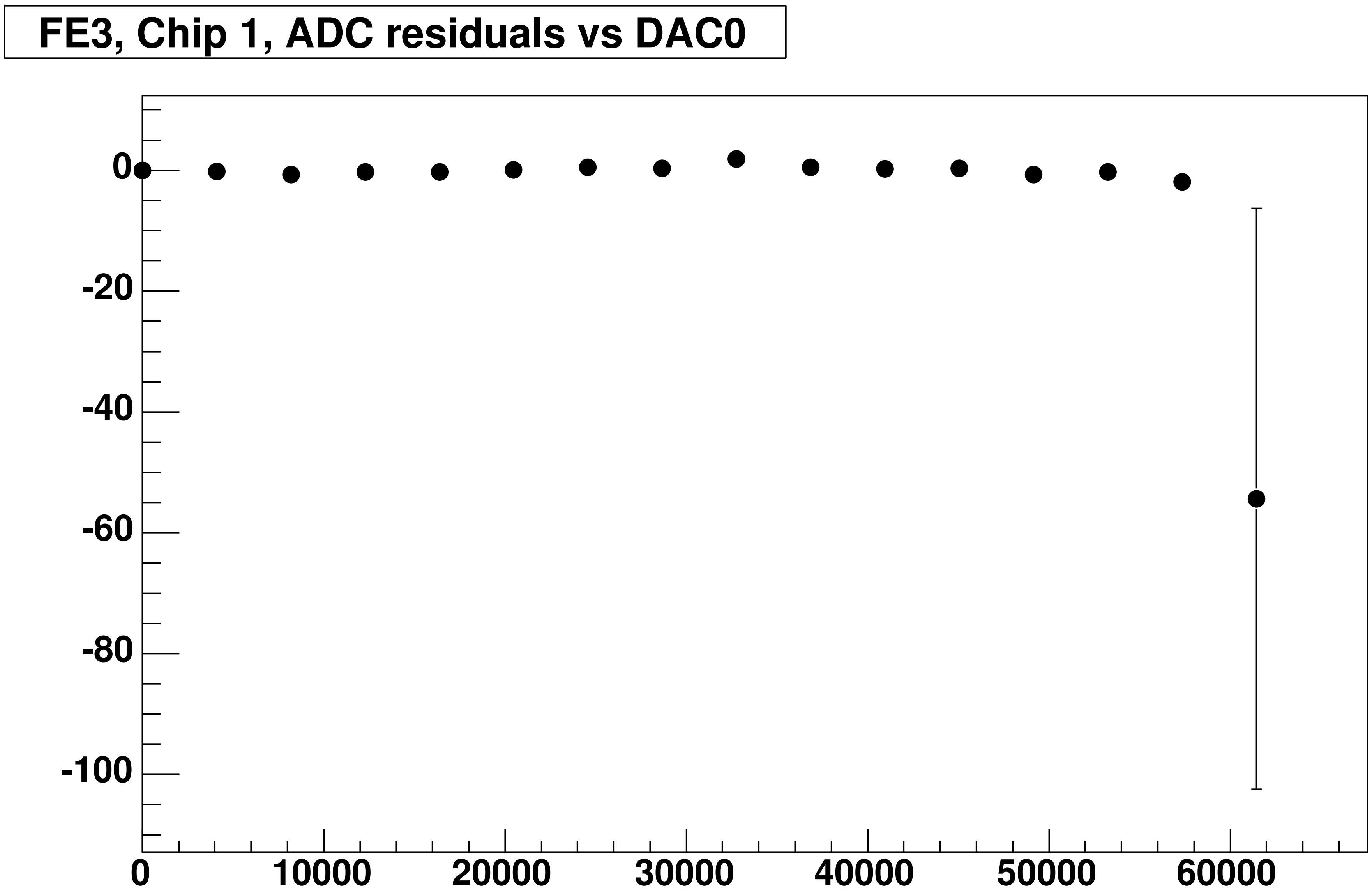


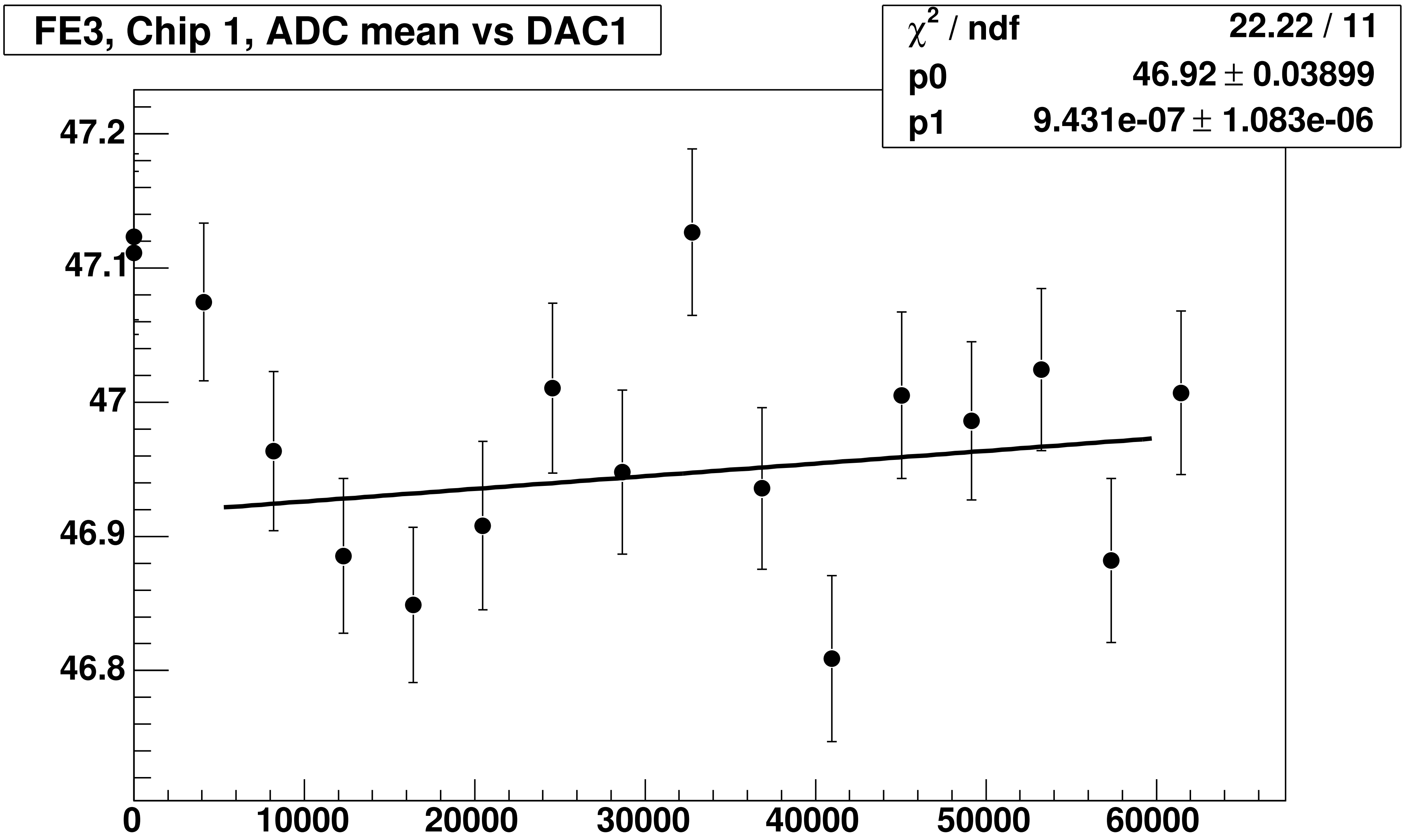
FE3, Chip 0, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



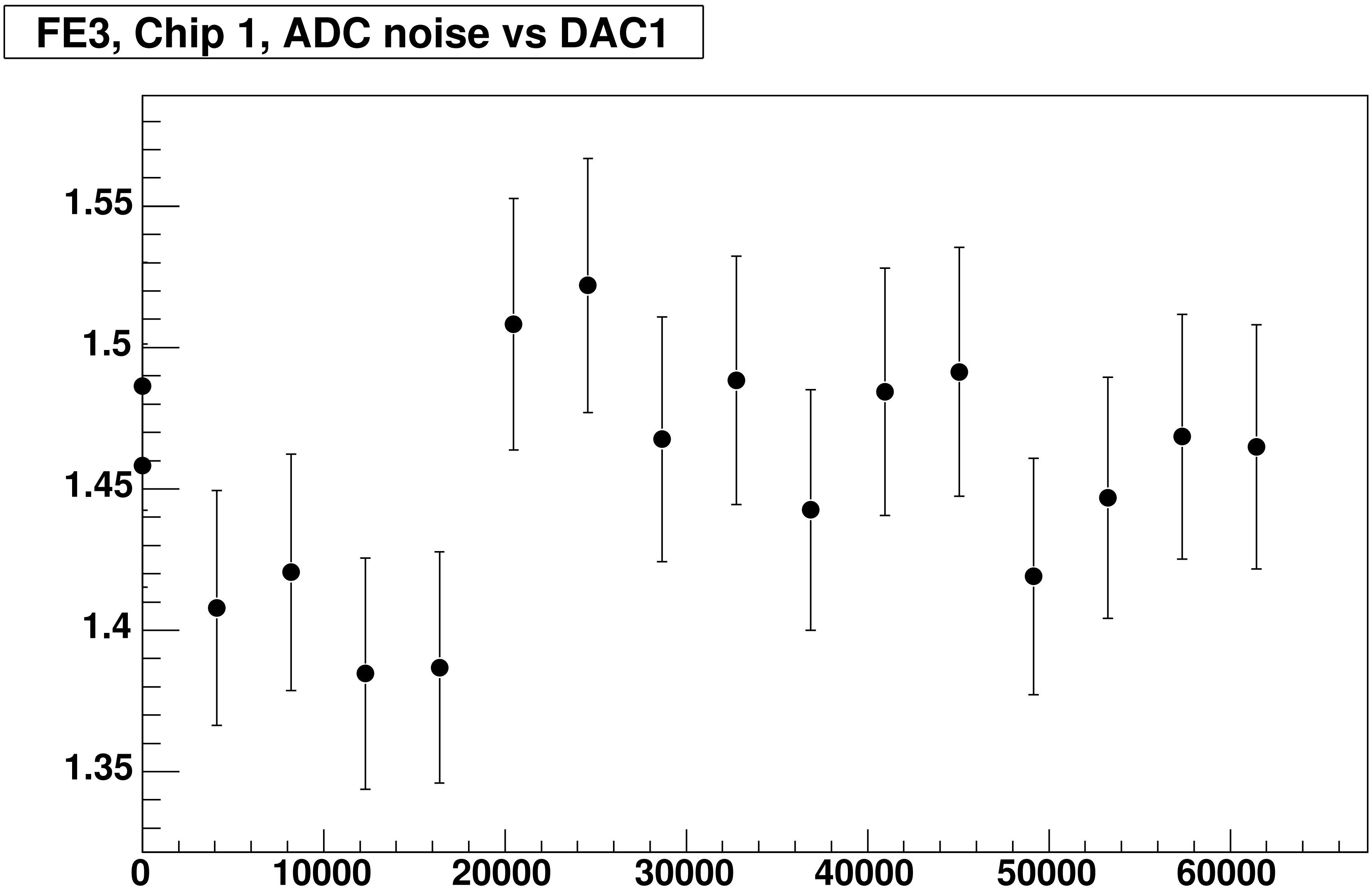
FE3, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1488 / 11
p0 46.92 ± 0.04172
p1 0.4501 ± 1.322e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

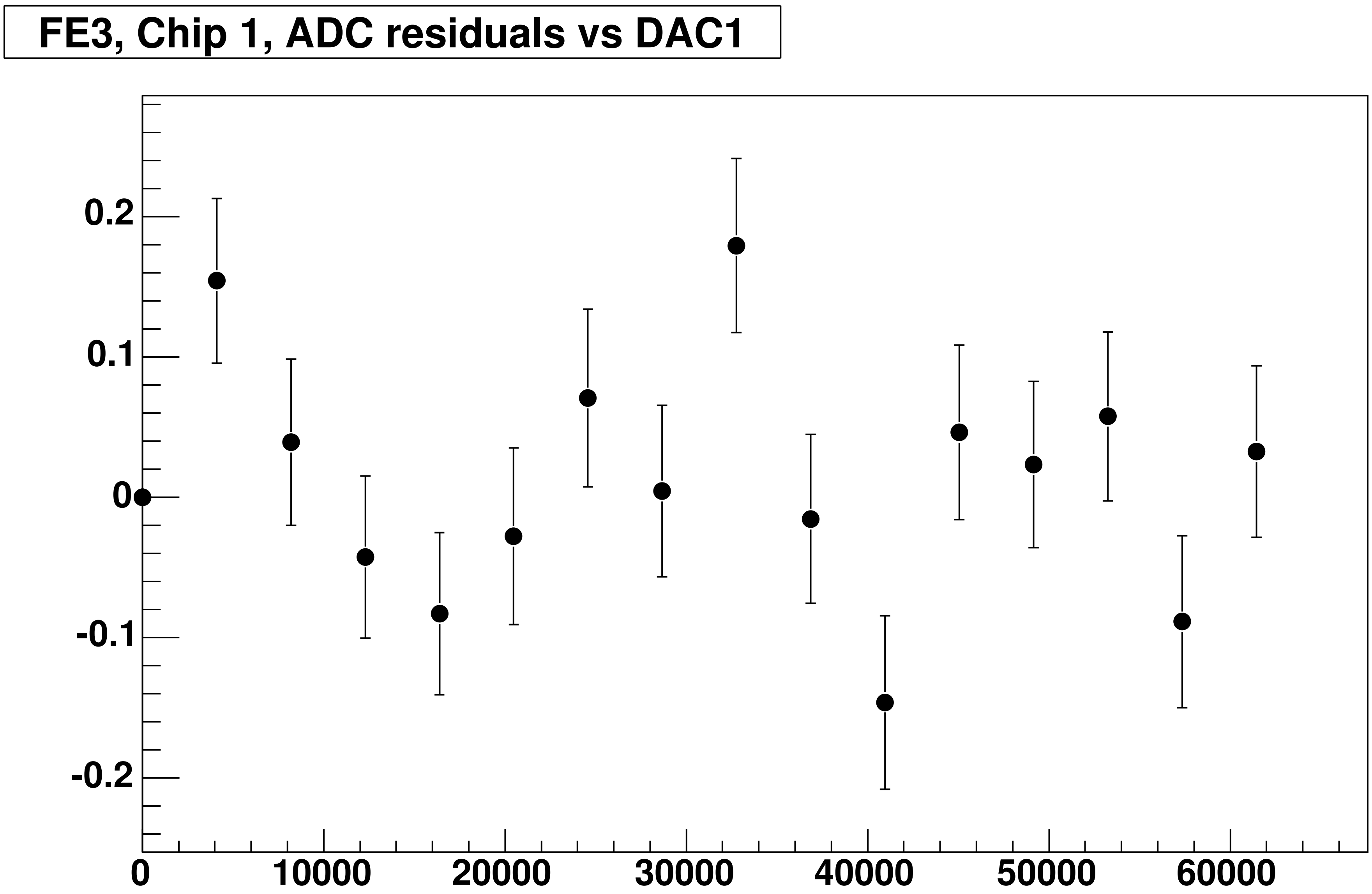

FE3, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

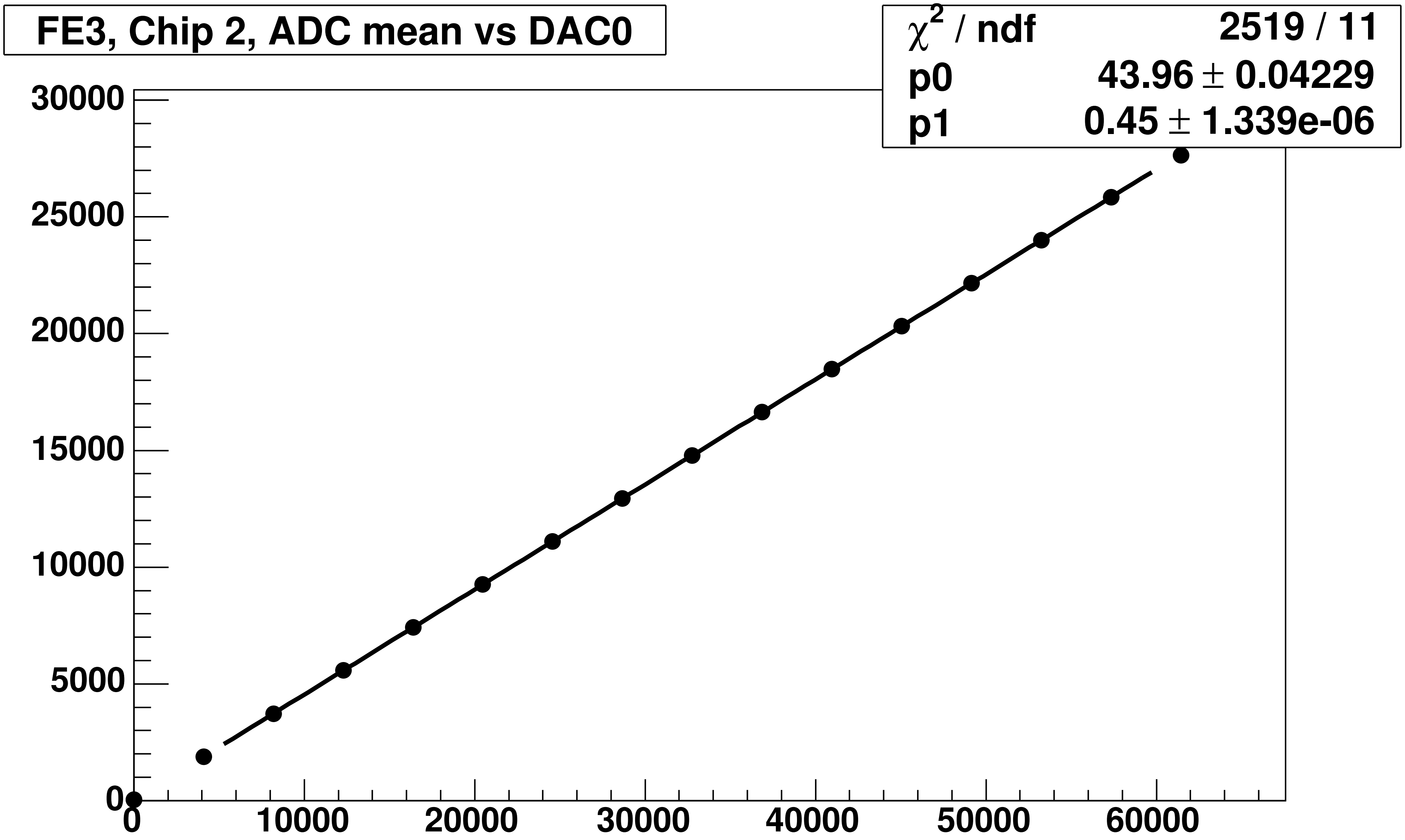

FE3, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



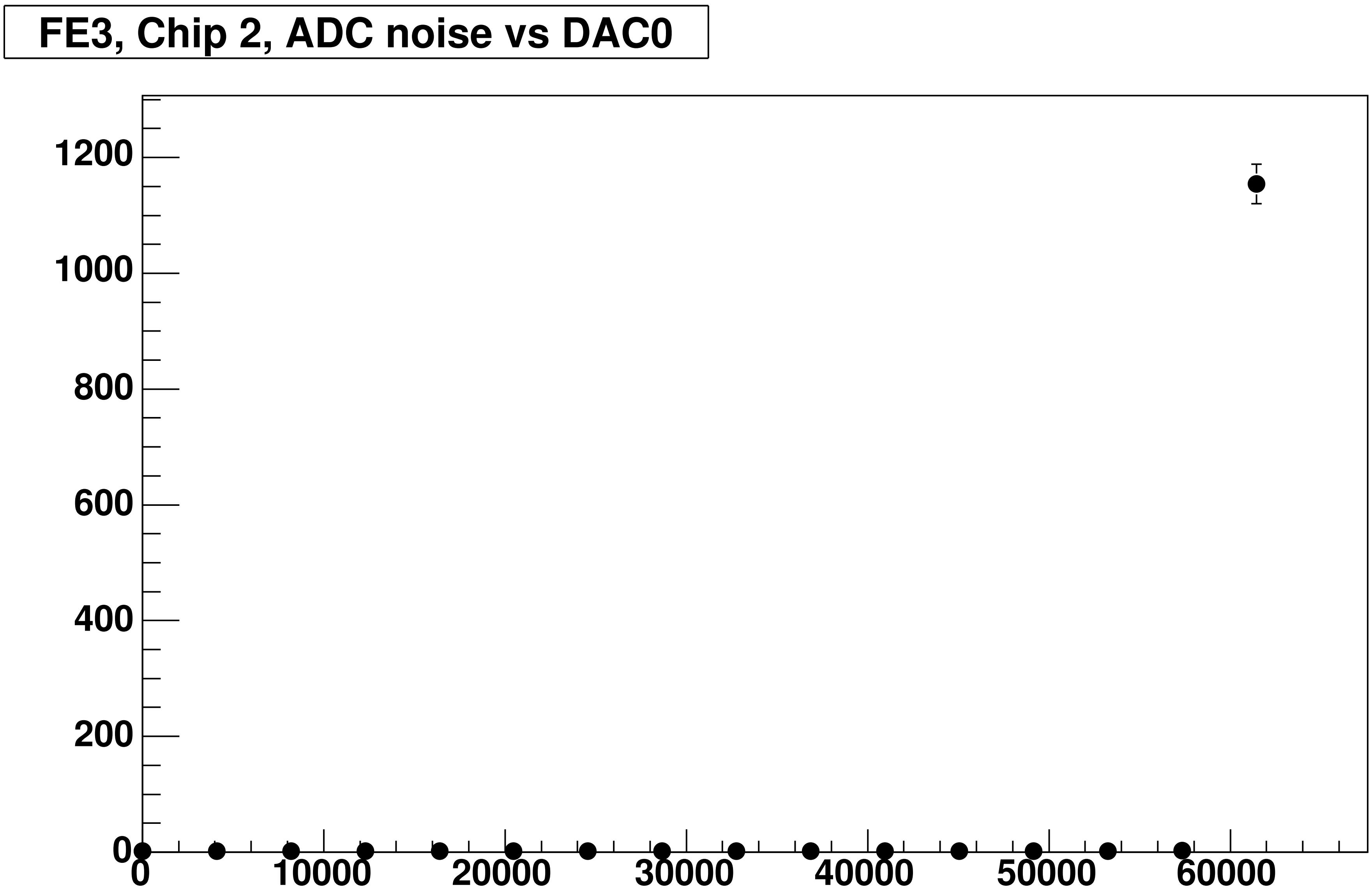
FE3, Chip 1, ADC mean vs DAC1
χ^2 / ndf 22.22 / 11
p0 46.92 ± 0.03899
p1 9.431e-07 ± 1.083e-06
47.2
47.1
47
46.9
46.8
0
10000
20000
30000
40000
50000
60000


FE3, Chip 1, ADC noise vs DAC1
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
10000
20000
30000
40000
50000
60000

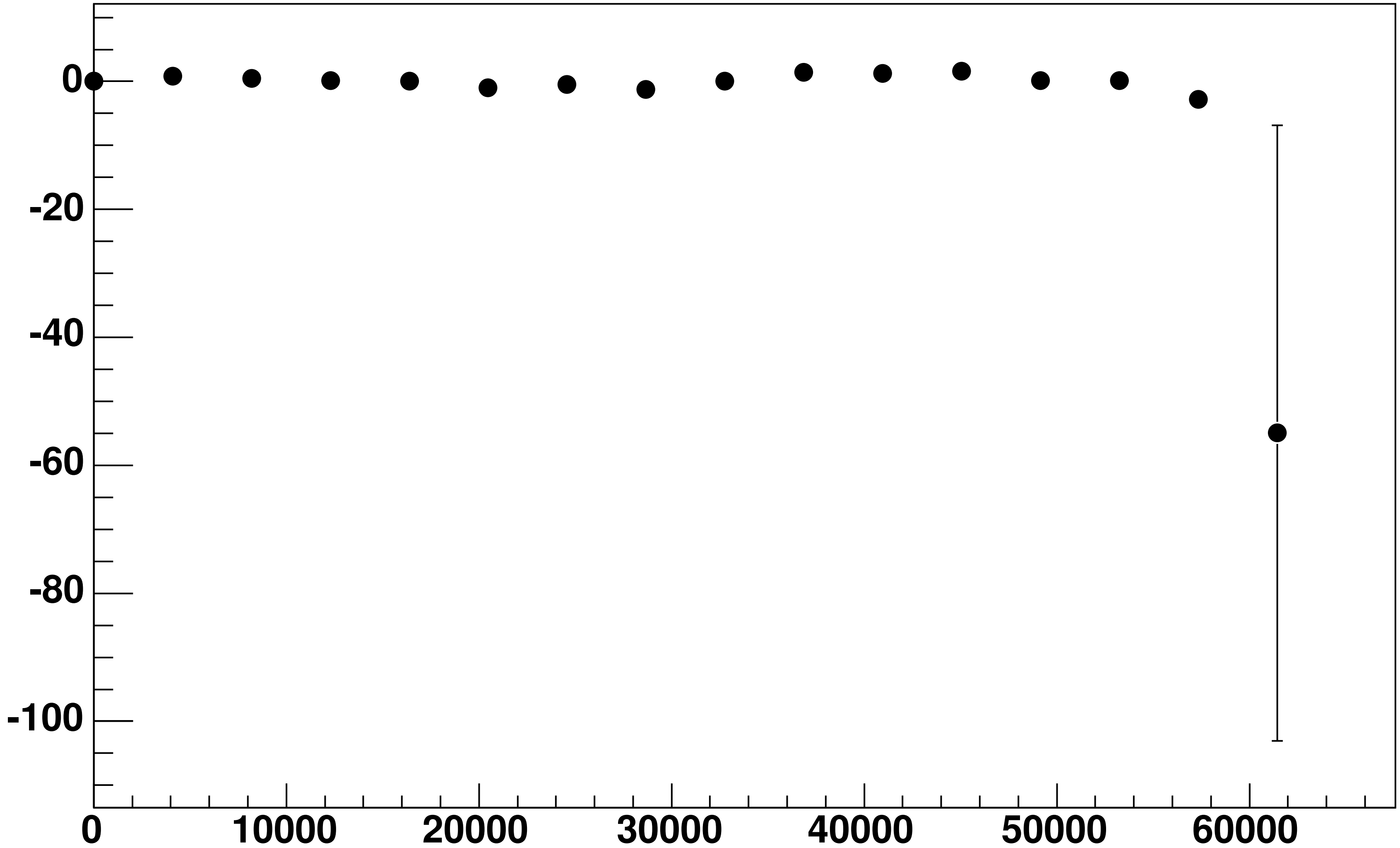


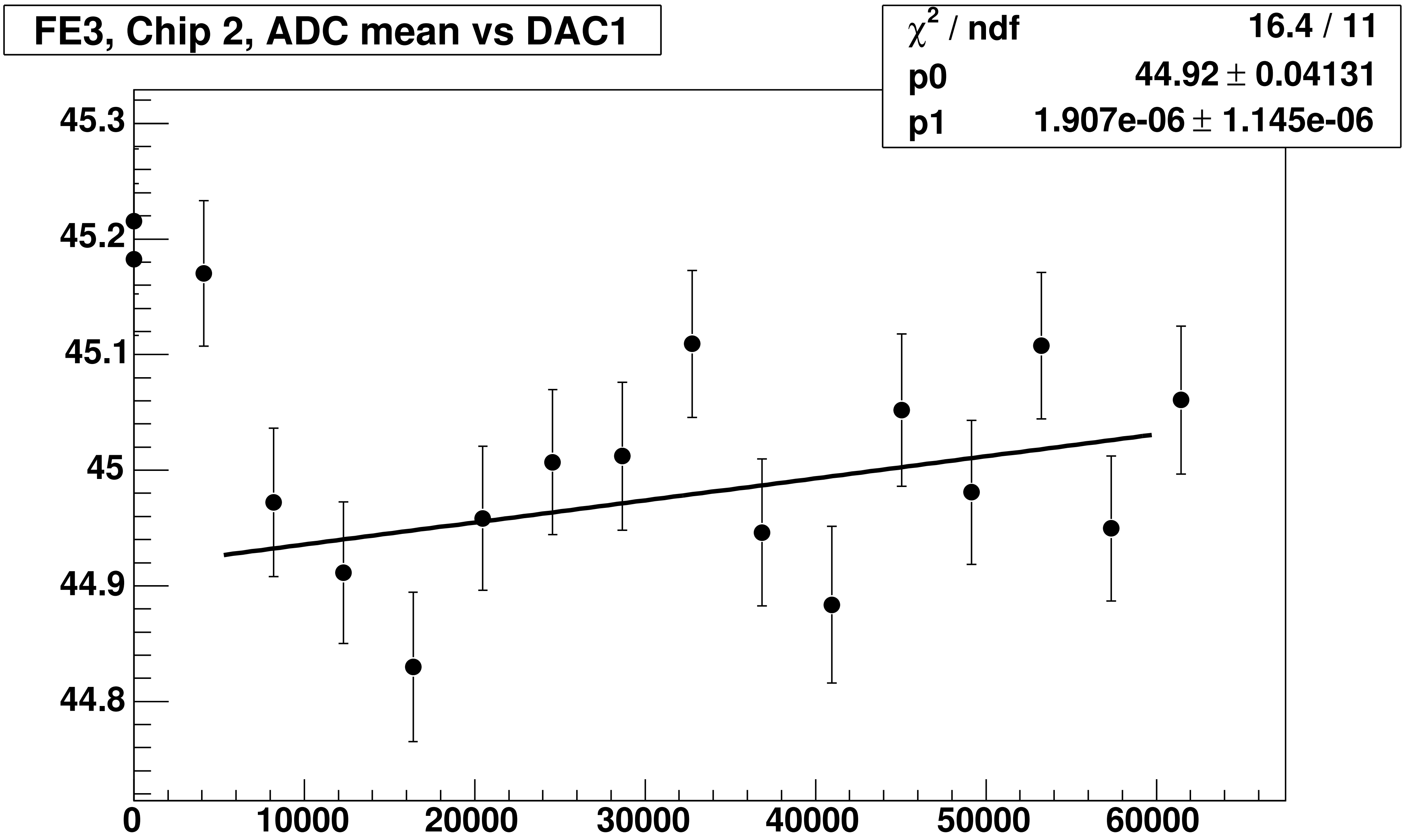
FE3, Chip 2, ADC mean vs DAC0
χ2 / ndf 2519 / 11
p0 43.96 ± 0.04229
p1 0.45 ± 1.339e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

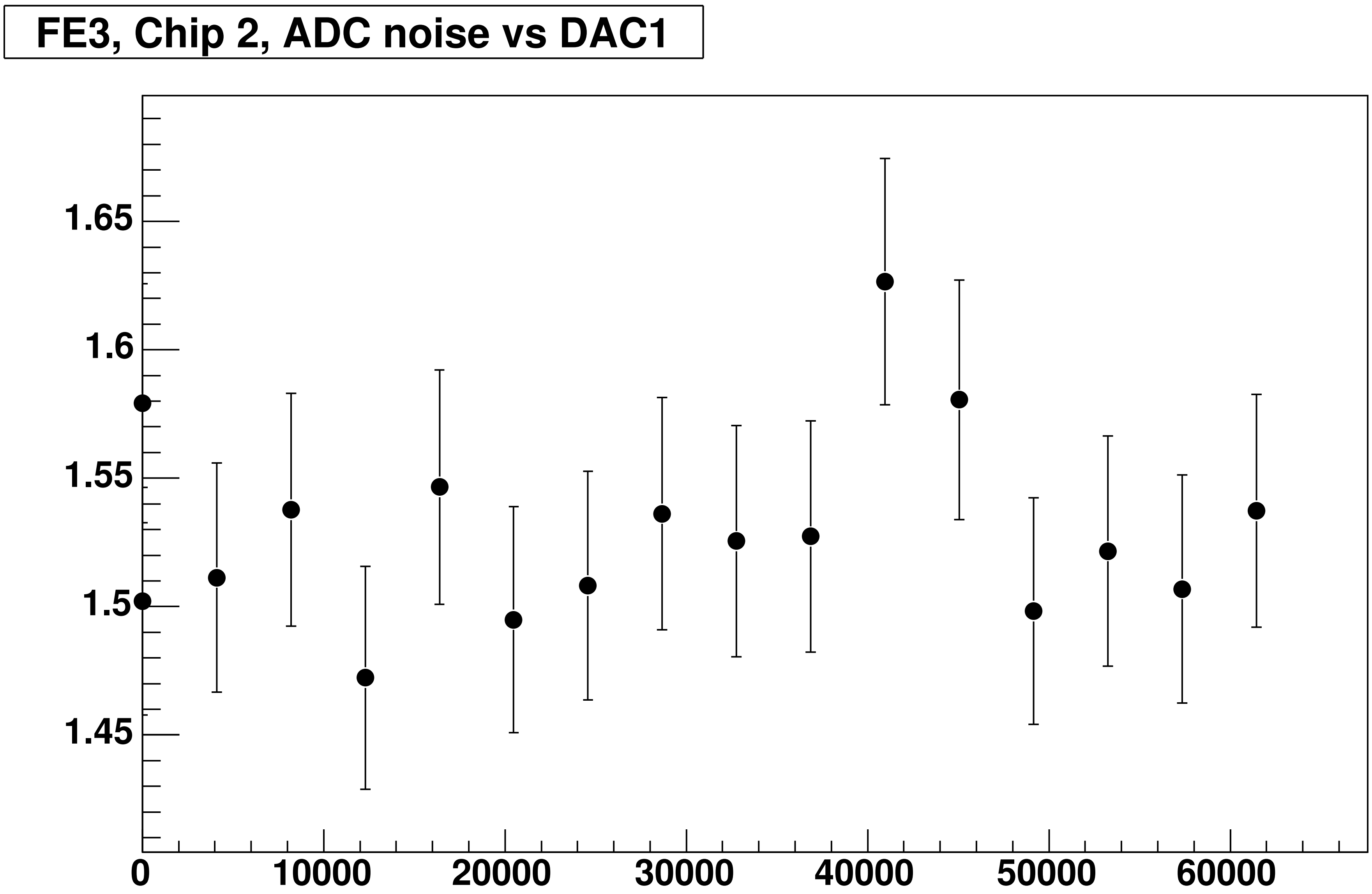


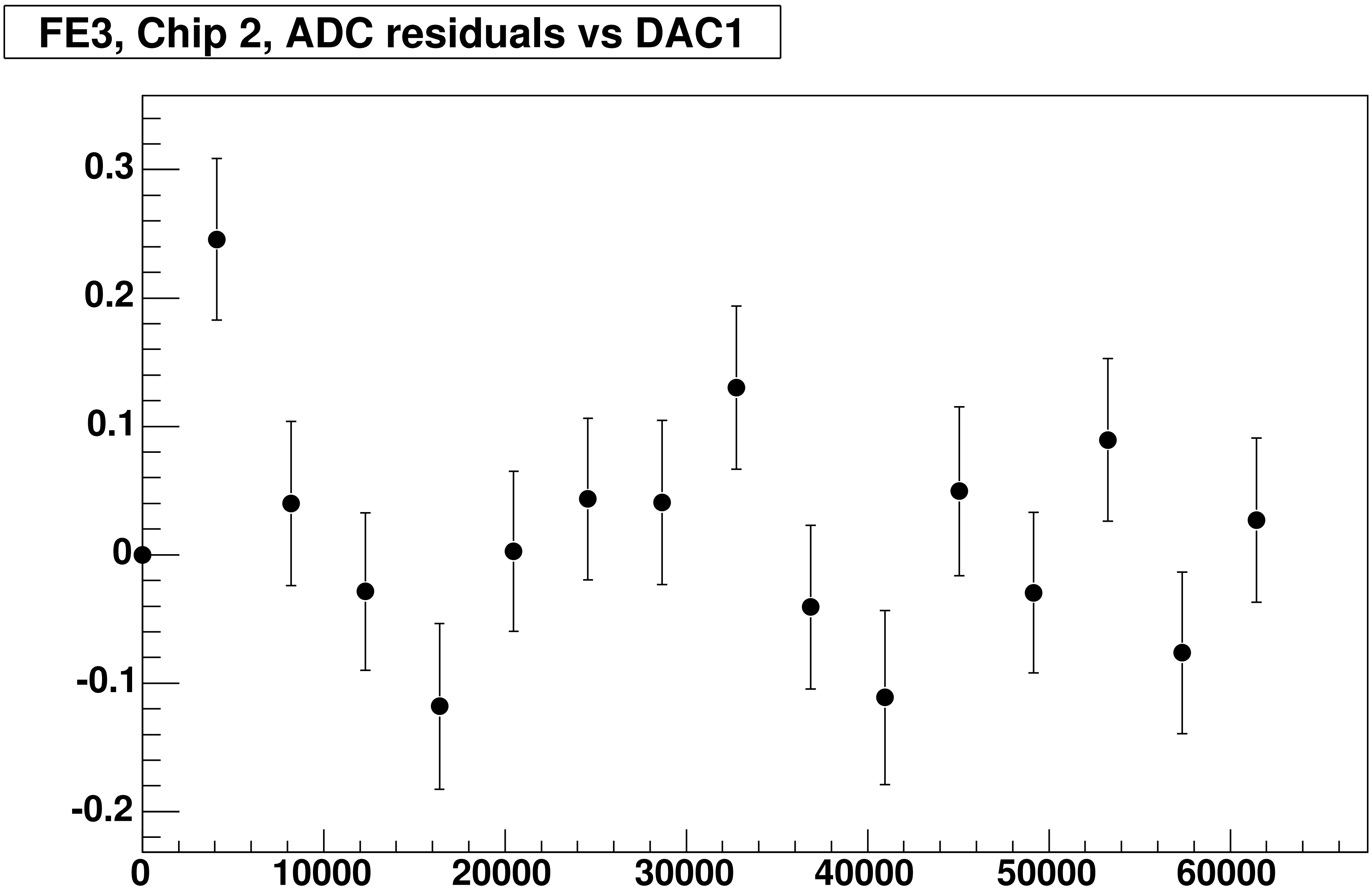
FE3, Chip 2, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

FE3, Chip 2, ADC residuals vs DAC0

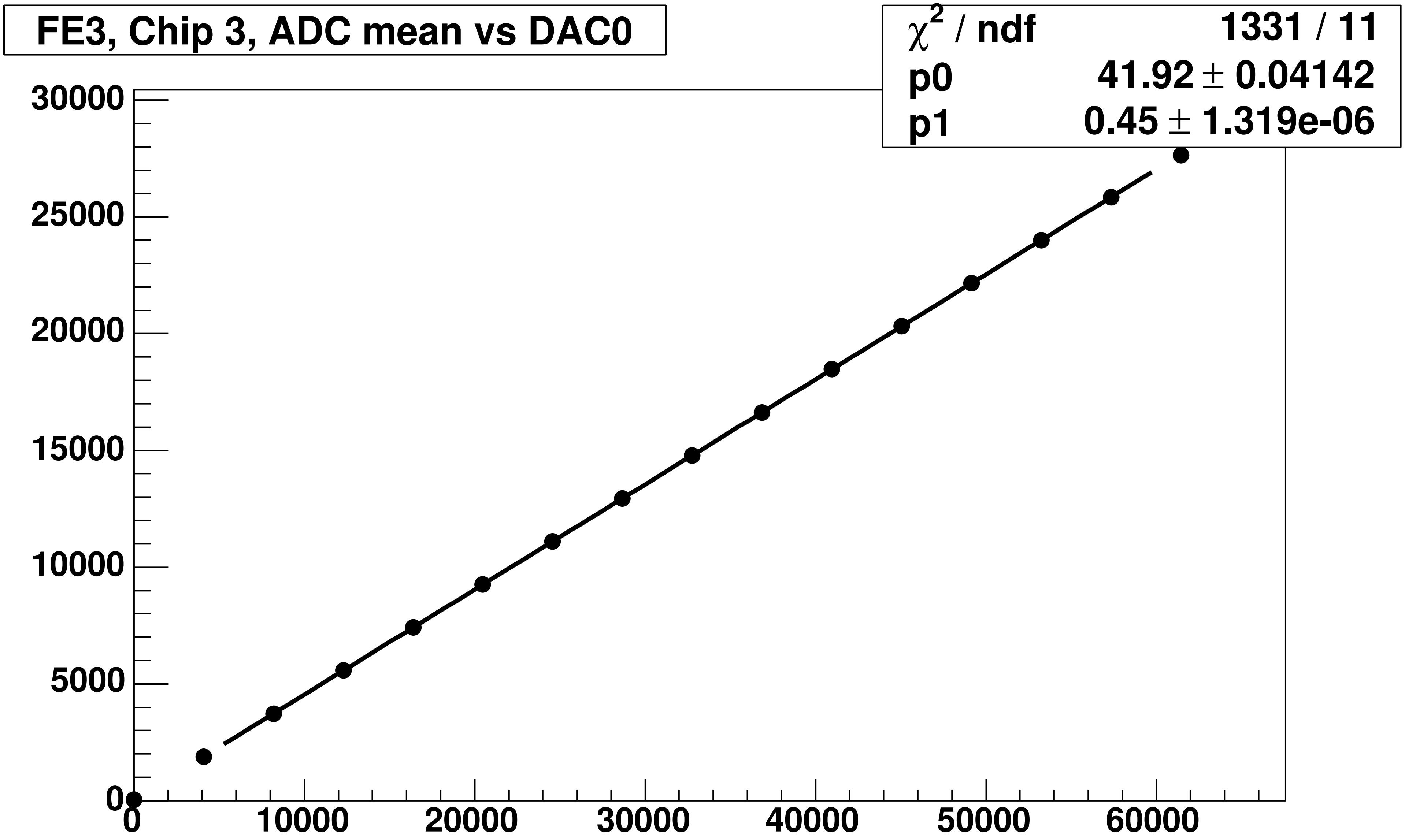



FE3, Chip 2, ADC mean vs DAC1
χ^2 / ndf 16.4 / 11
p0 44.92 ± 0.04131
p1 1.907e-06 ± 1.145e-06
45.3
45.2
45.1
45
44.9
44.8
0
10000
20000
30000
40000
50000
60000

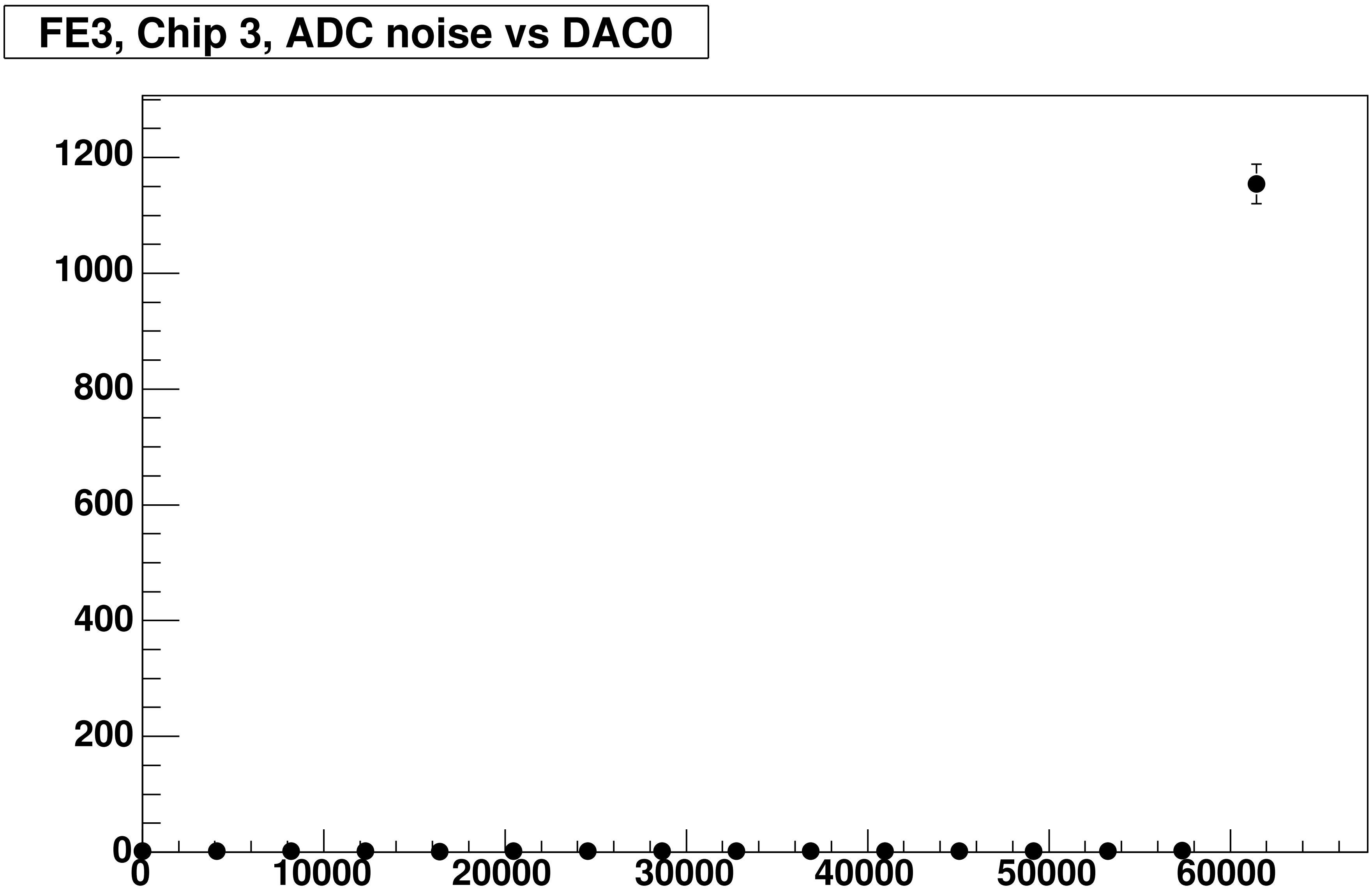

FE3, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

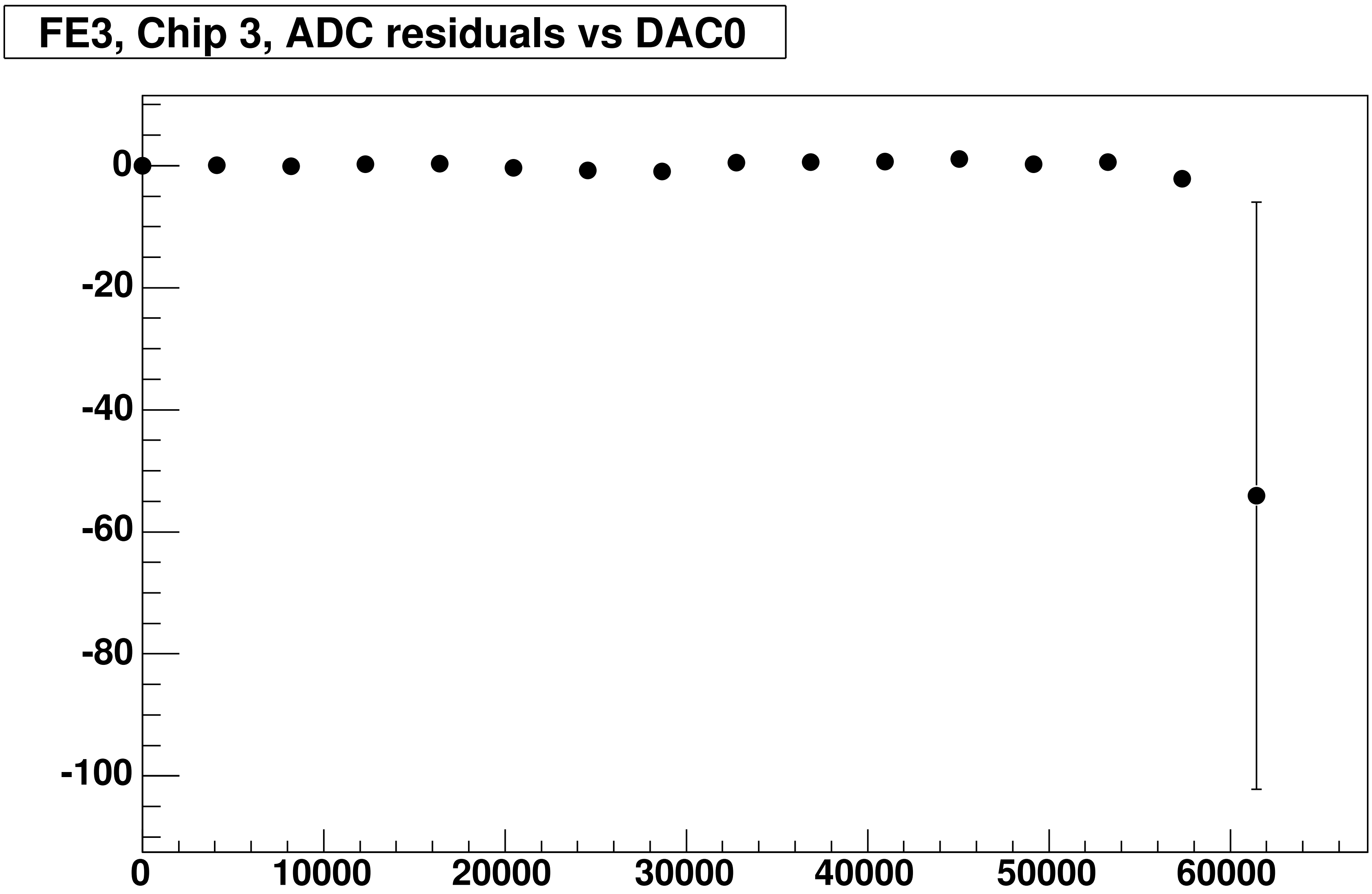


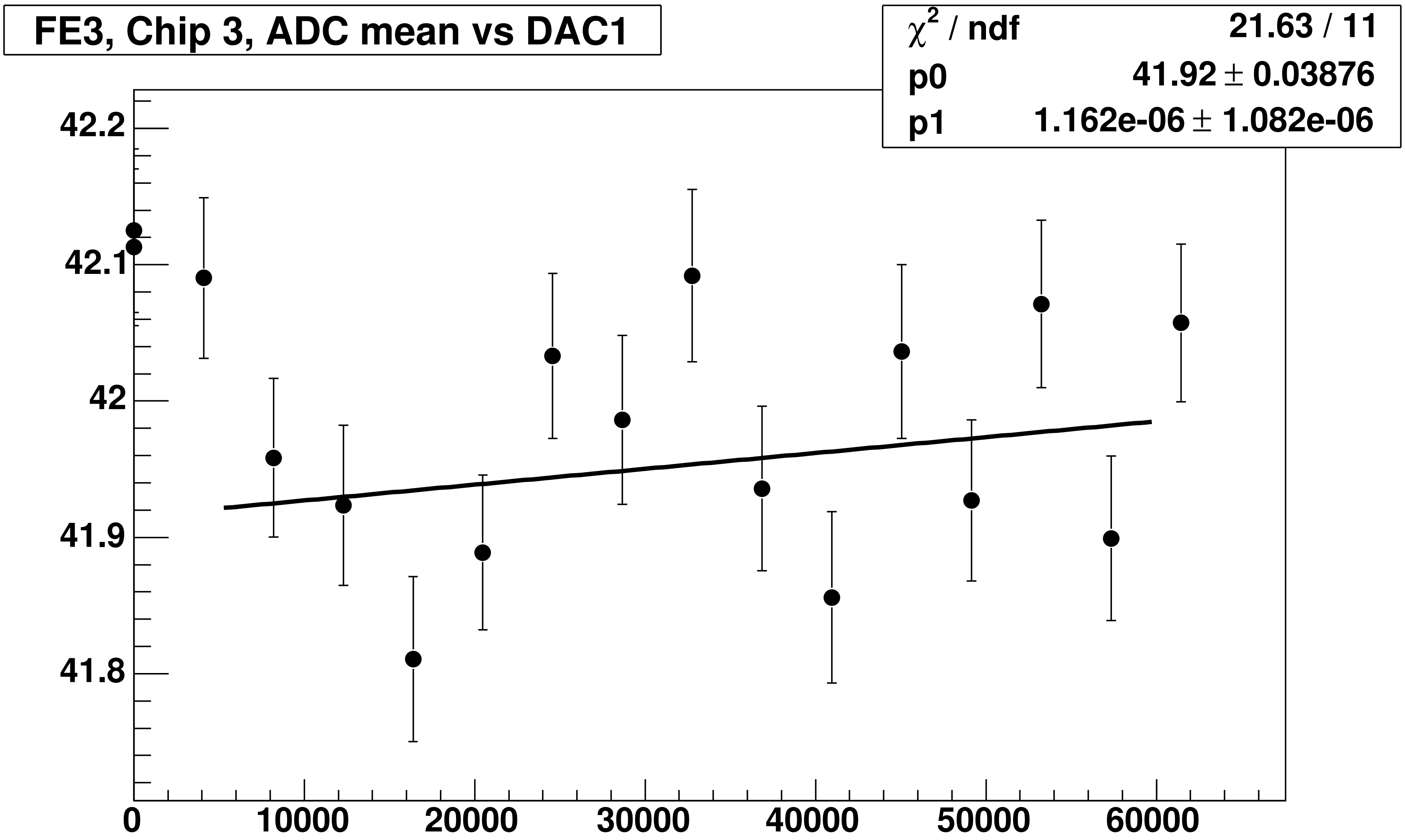
FE3, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

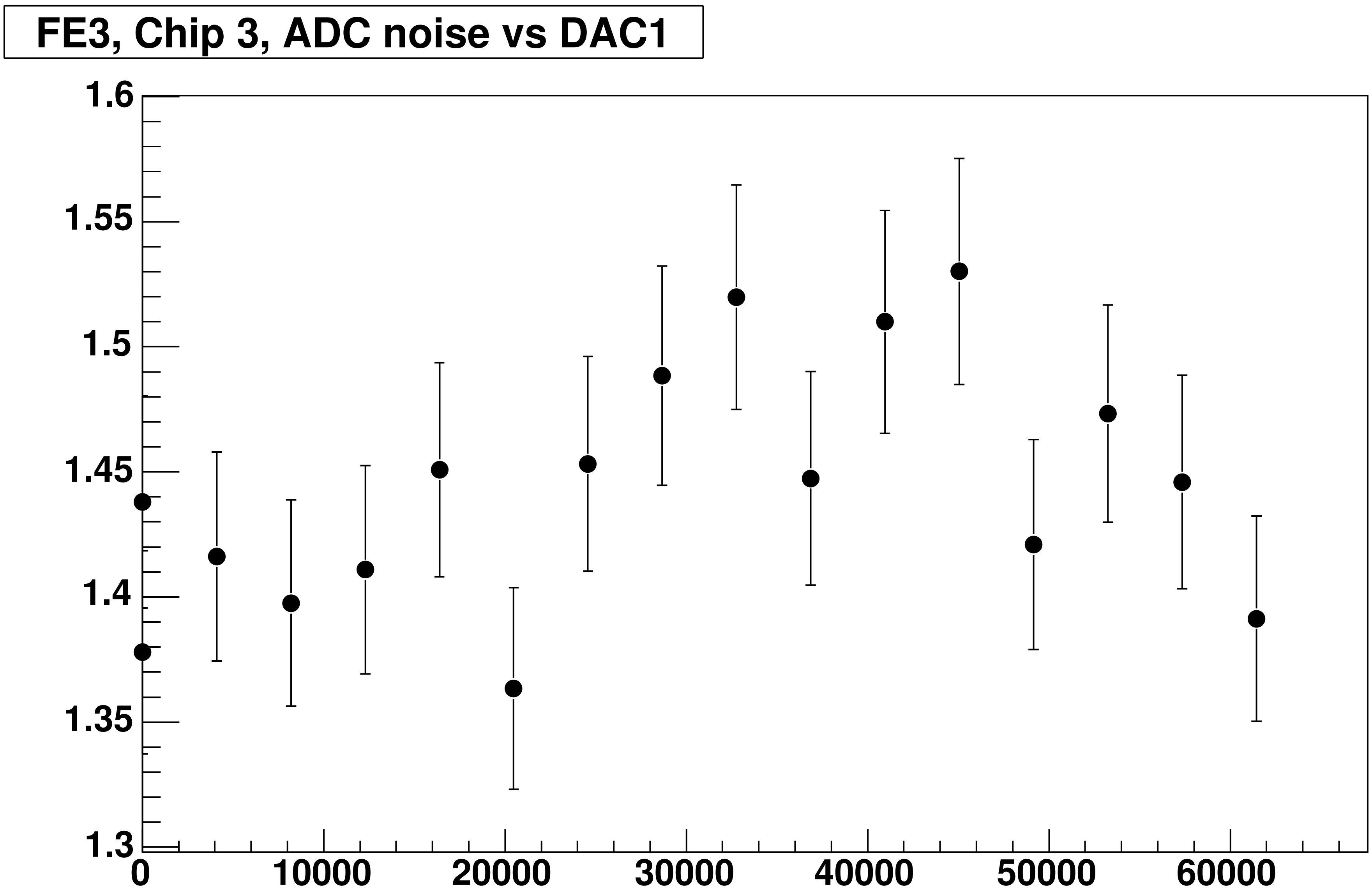


FE3, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1331 / 11
p0 41.92 ± 0.04142
p1 0.45 ± 1.319e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

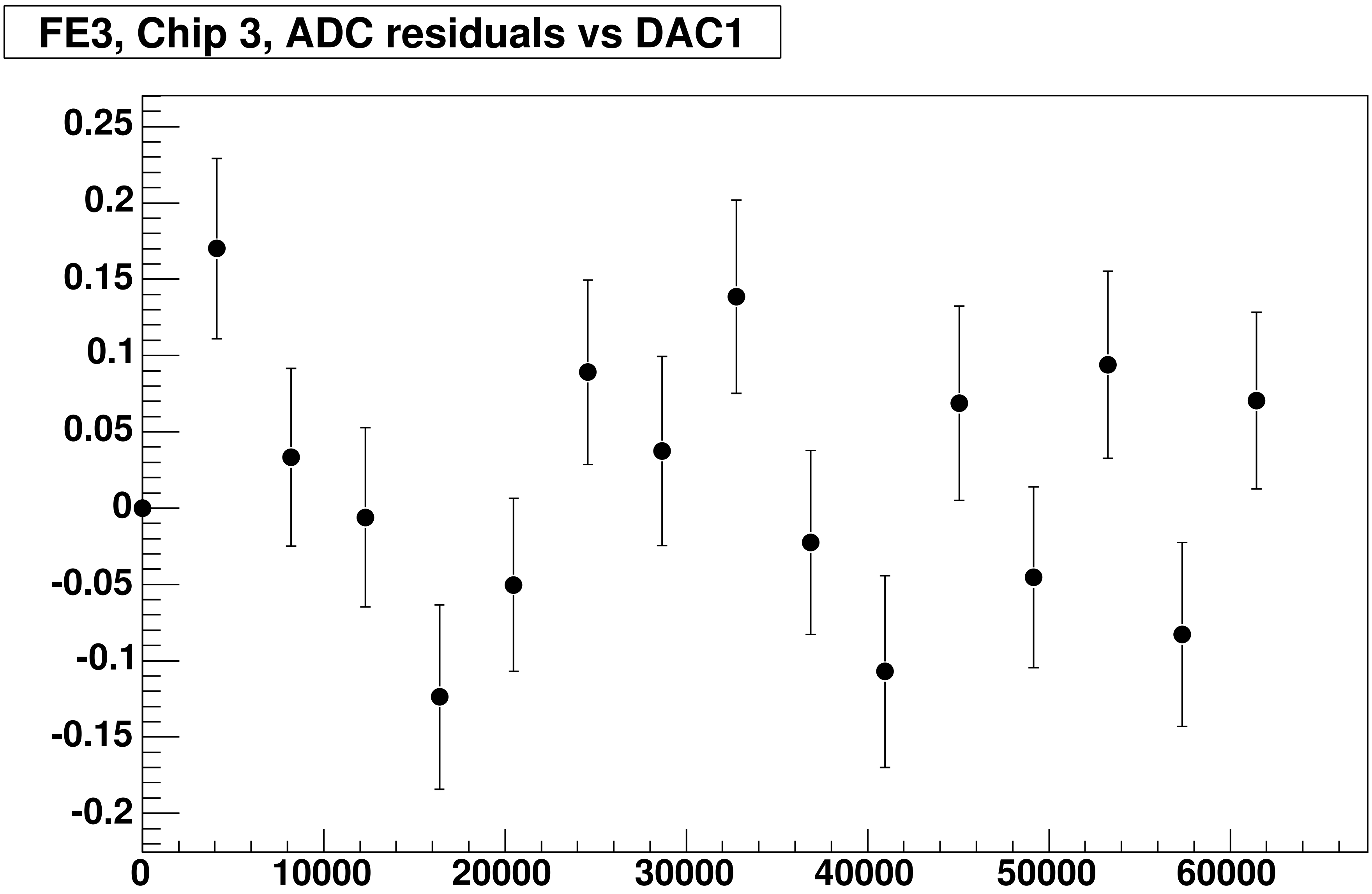

FE3, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

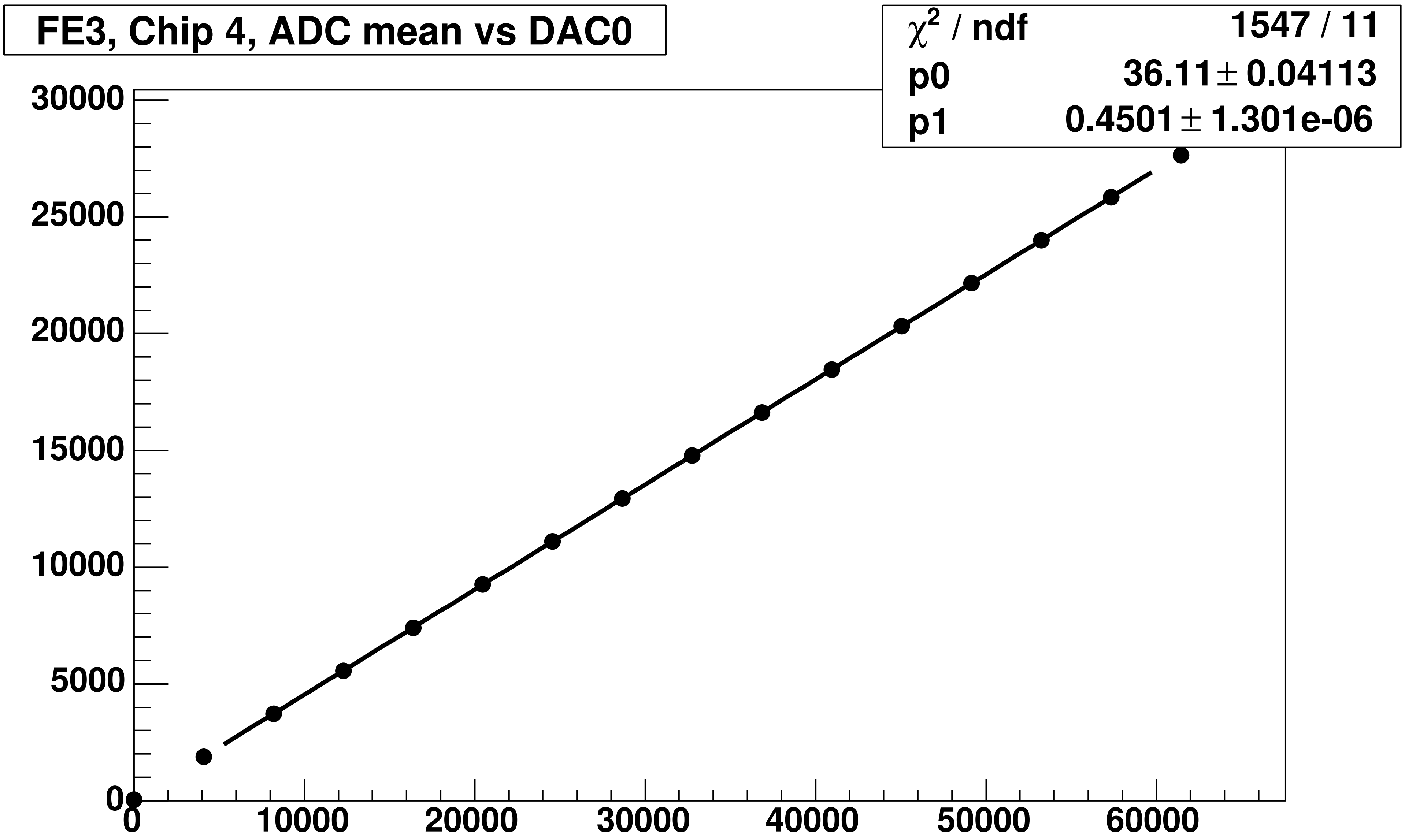

FE3, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

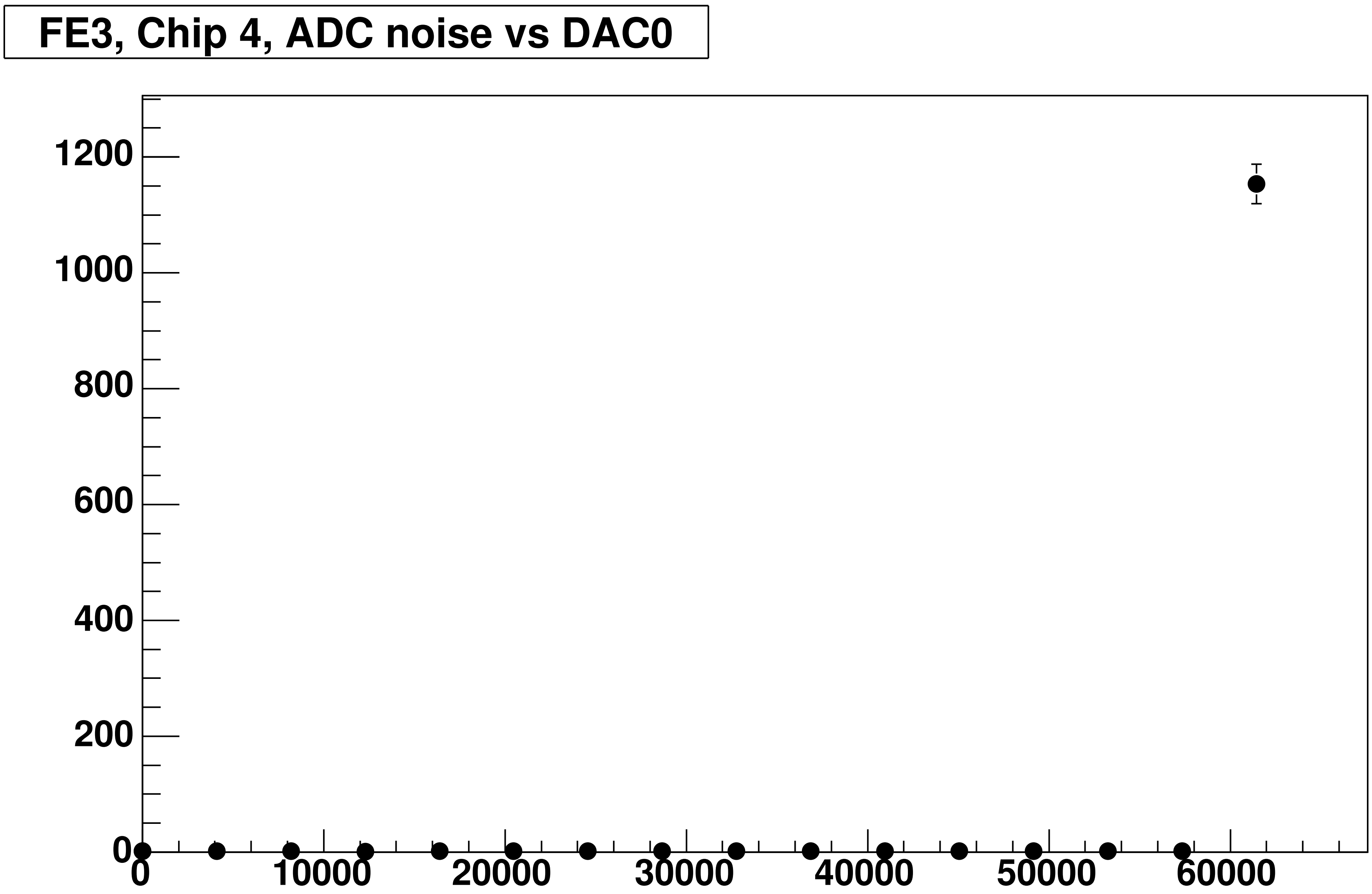

FE3, Chip 3, ADC mean vs DAC1
χ^2 / ndf 21.63 / 11
p0 41.92 ± 0.03876
p1 1.162e-06 ± 1.082e-06
42.2
42.1
42
41.9
41.8
0
10000
20000
30000
40000
50000
60000

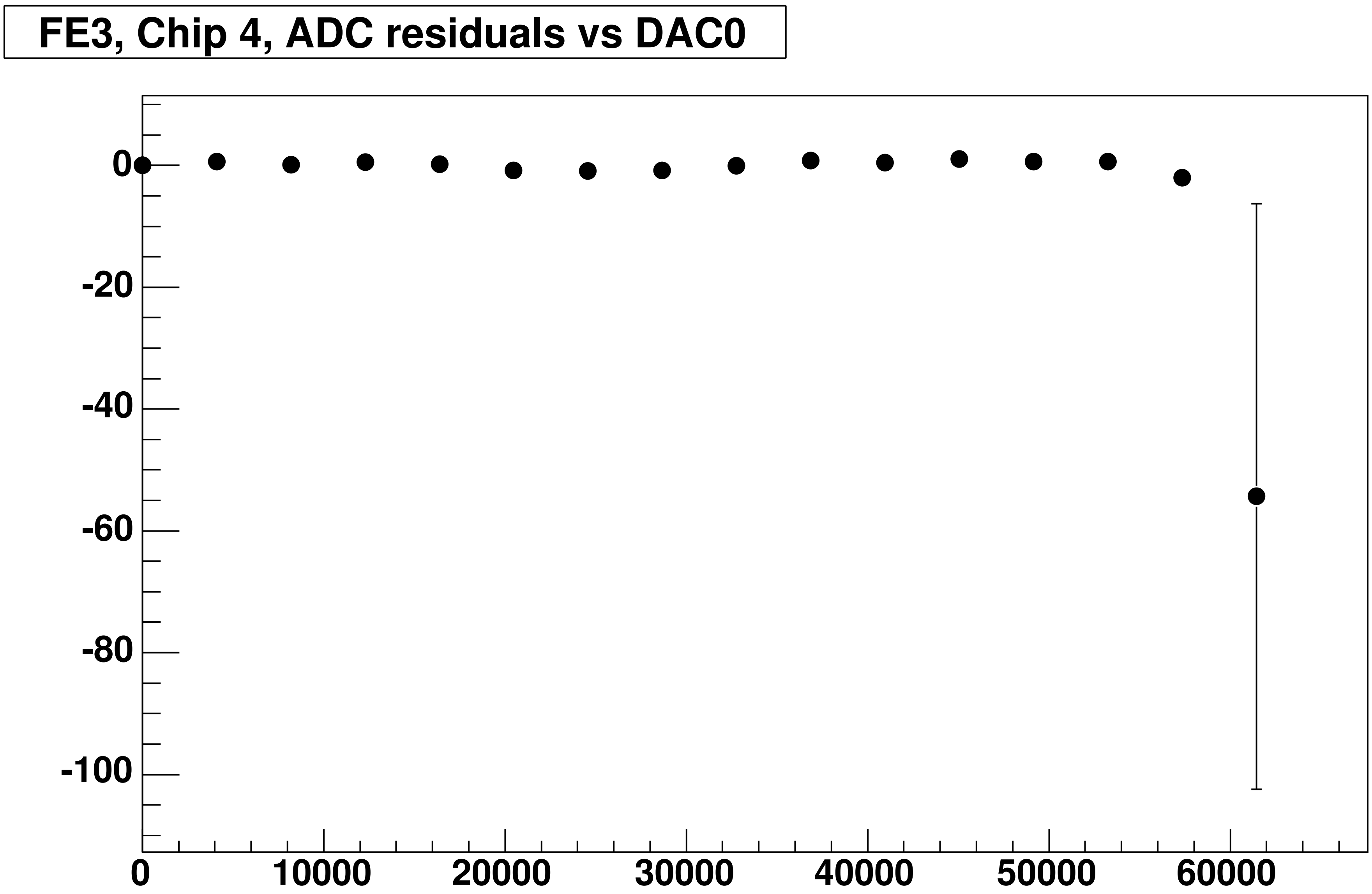


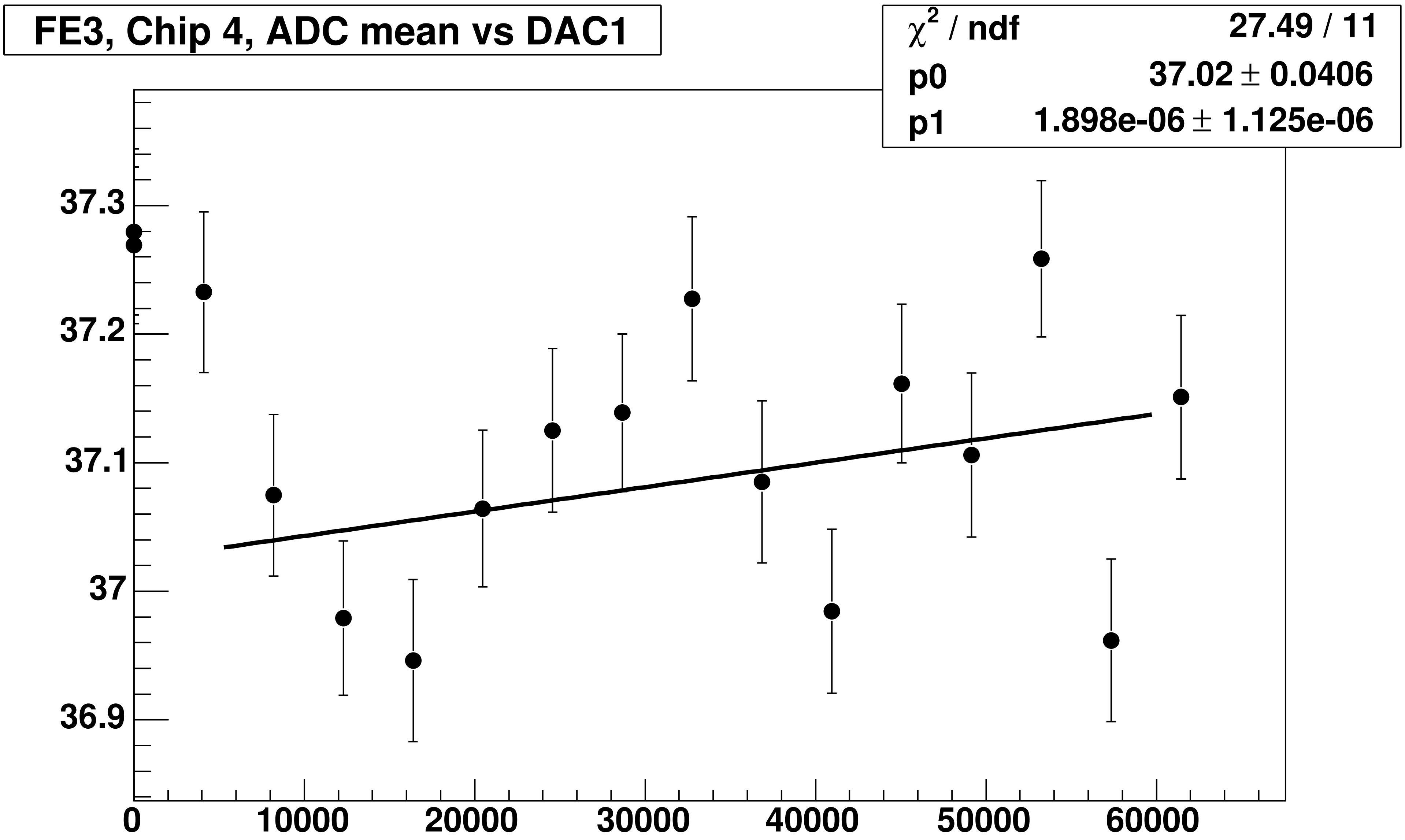
FE3, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


FE3, Chip 3, ADC residuals vs DAC1
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

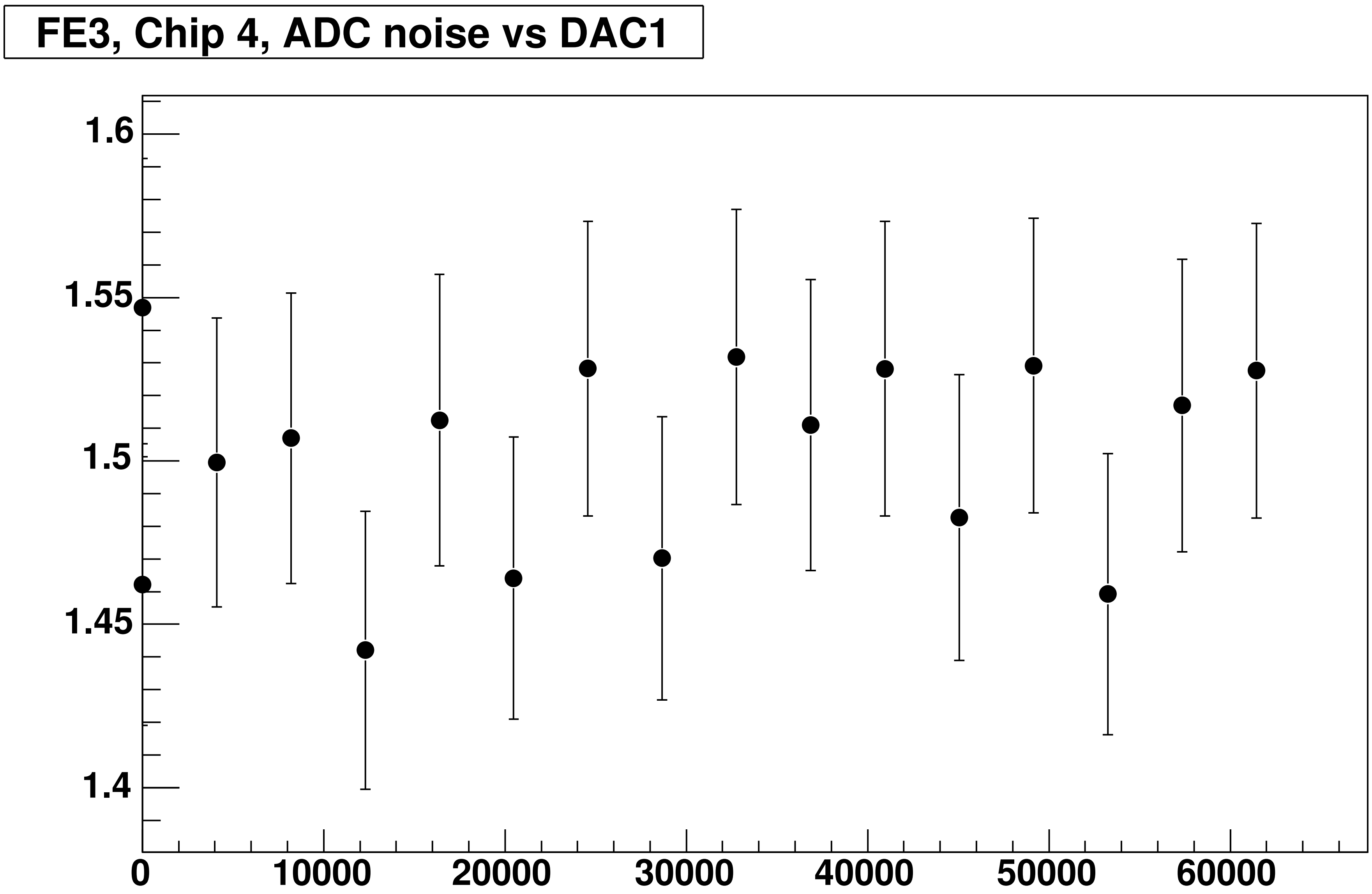

FE3, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1547 / 11
p0 36.11 ± 0.04113
p1 0.4501 ± 1.301e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

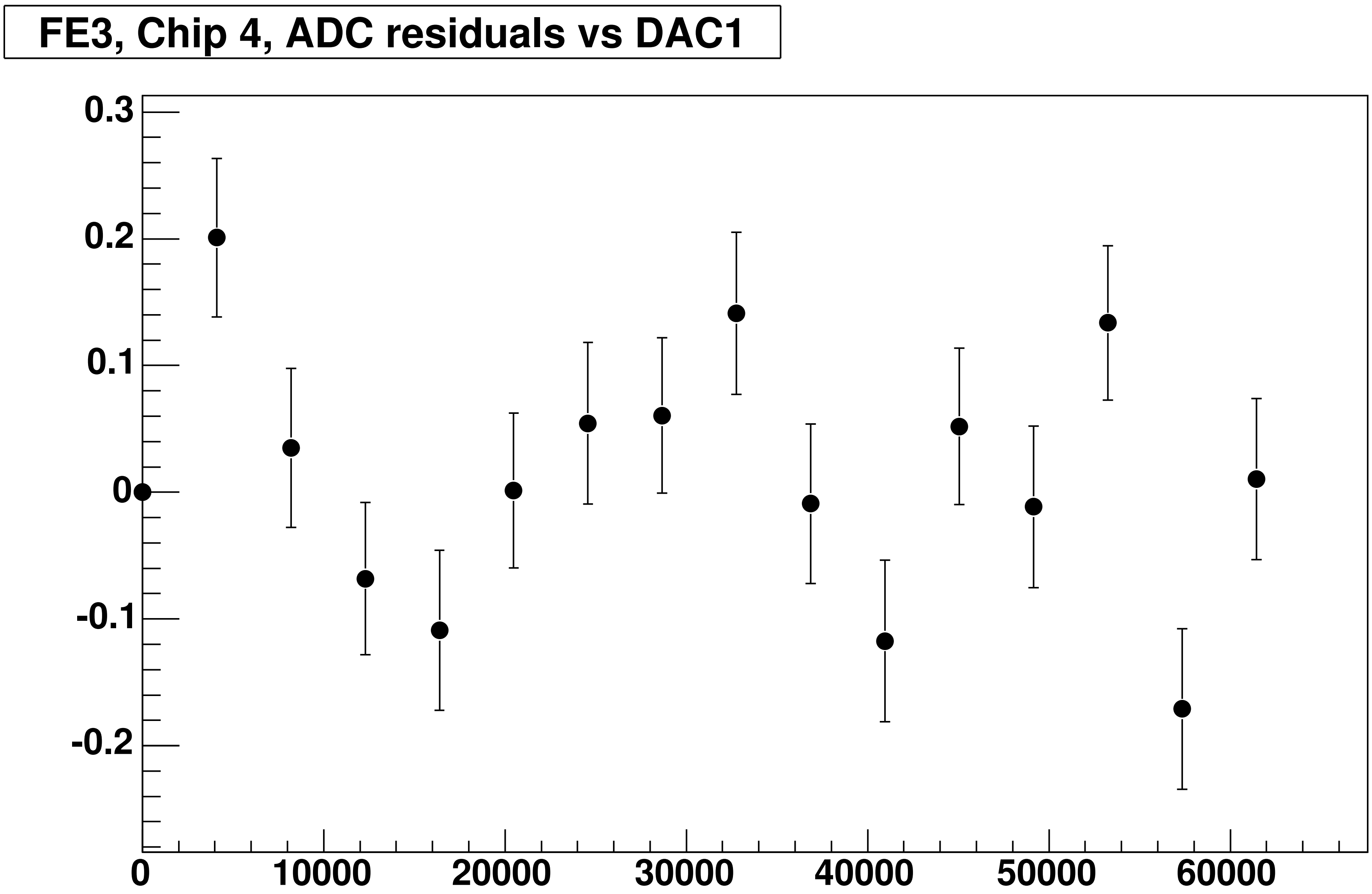

FE3, Chip 4, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

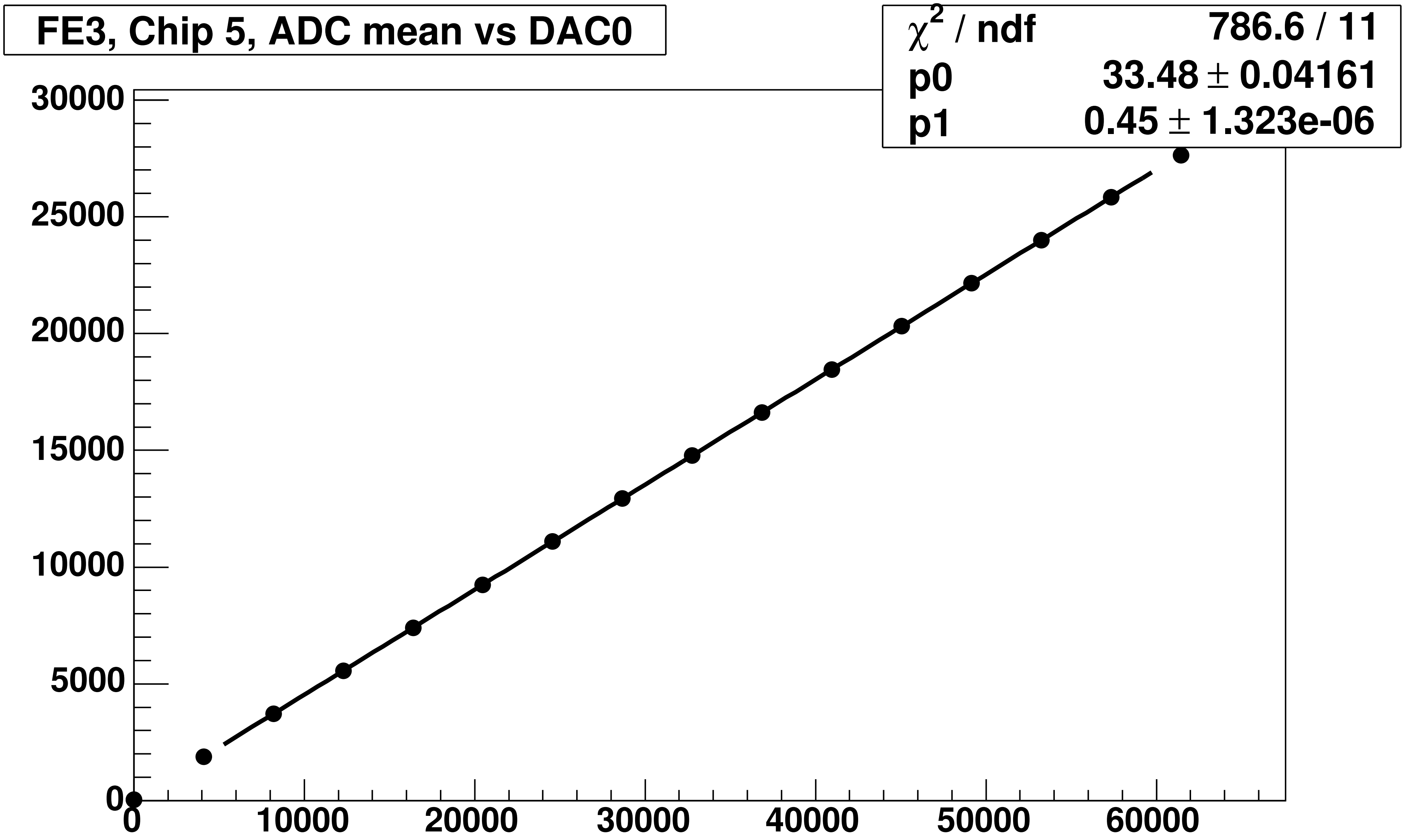

FE3, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

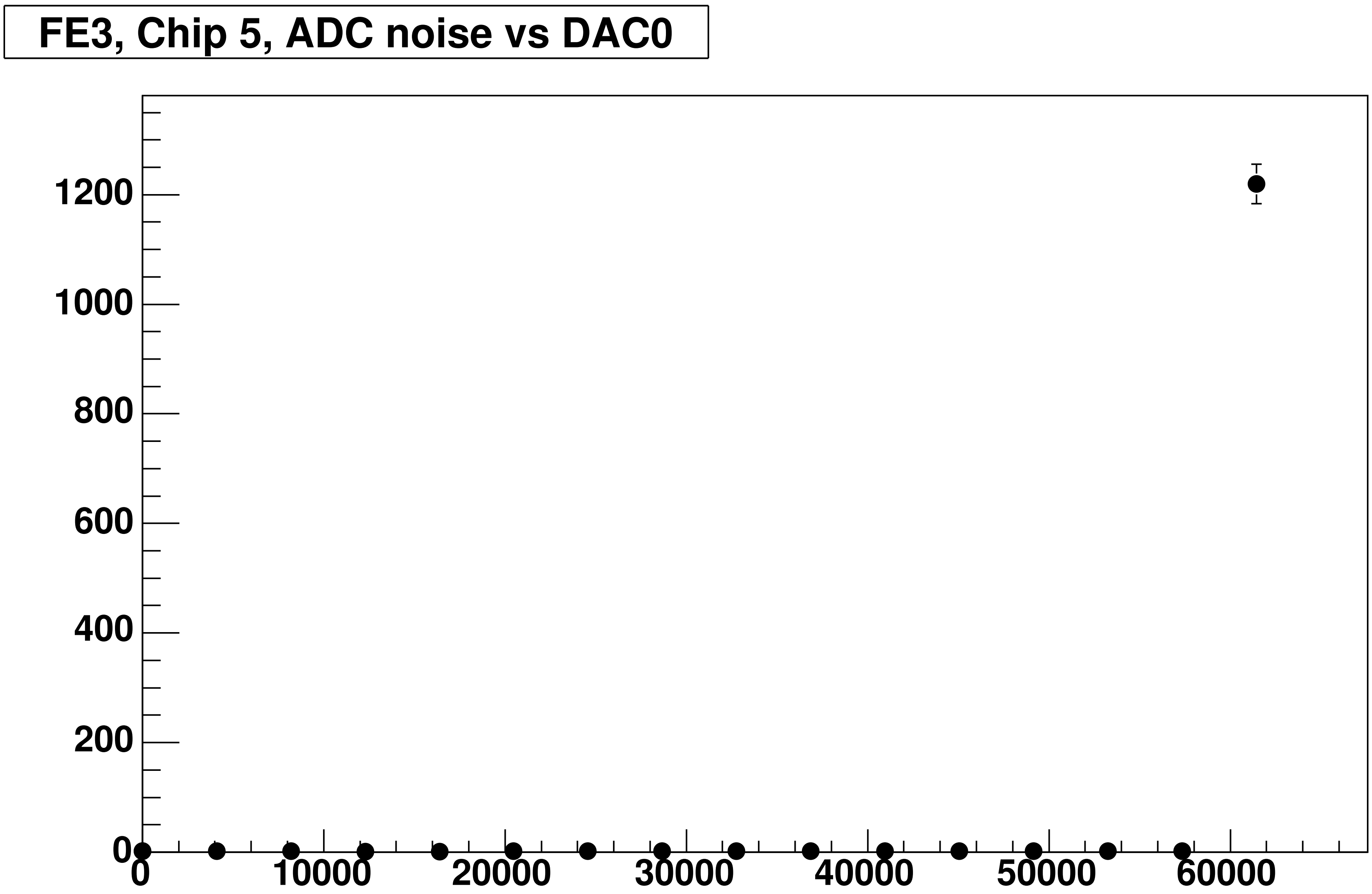


FE3, Chip 4, ADC mean vs DAC1
χ^2 / ndf 27.49 / 11
p0 37.02 ± 0.0406
p1 1.898e-06 ± 1.125e-06
37.3
37.2
37.1
37
36.9
0
10000
20000
30000
40000
50000
60000

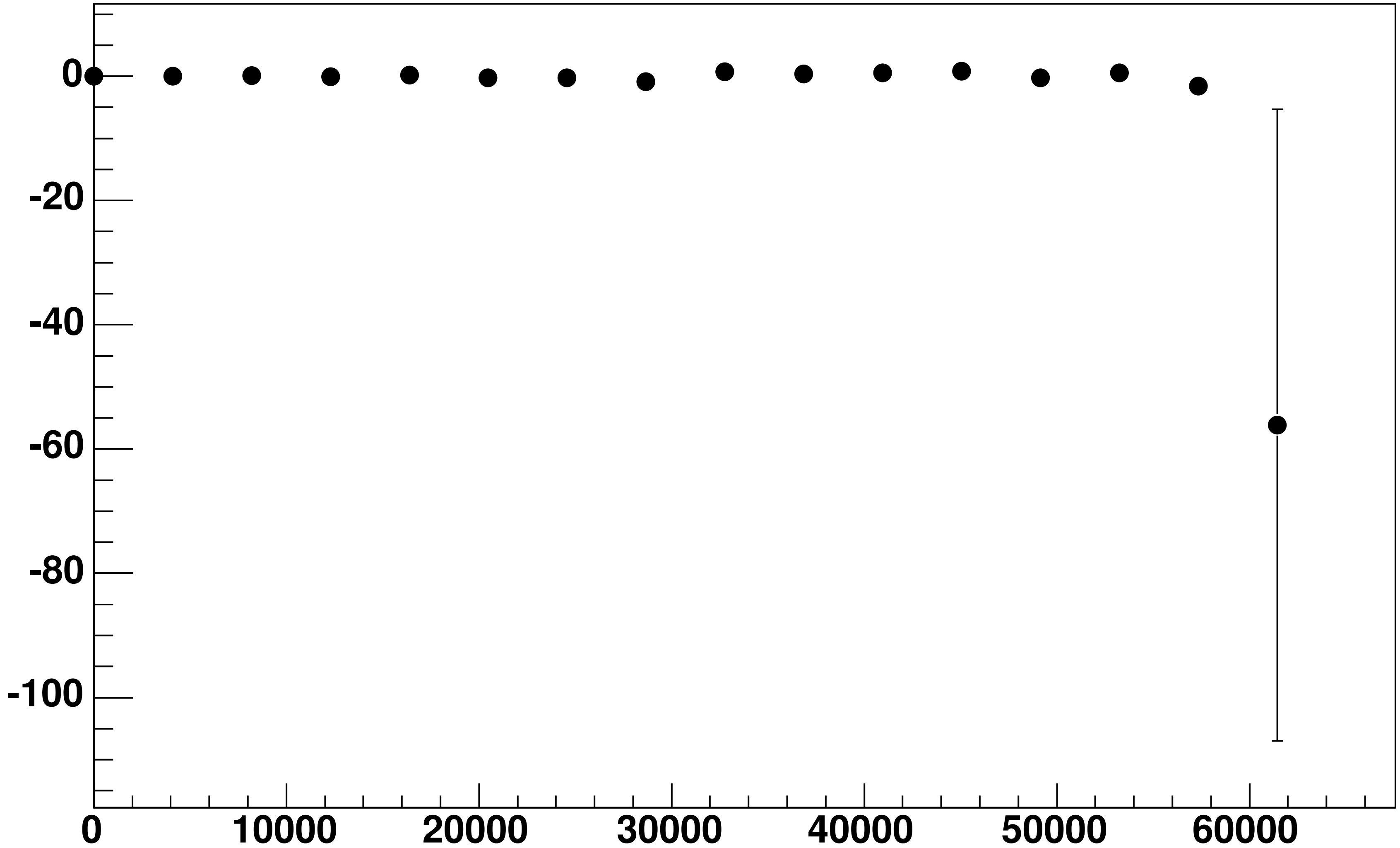

FE3, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

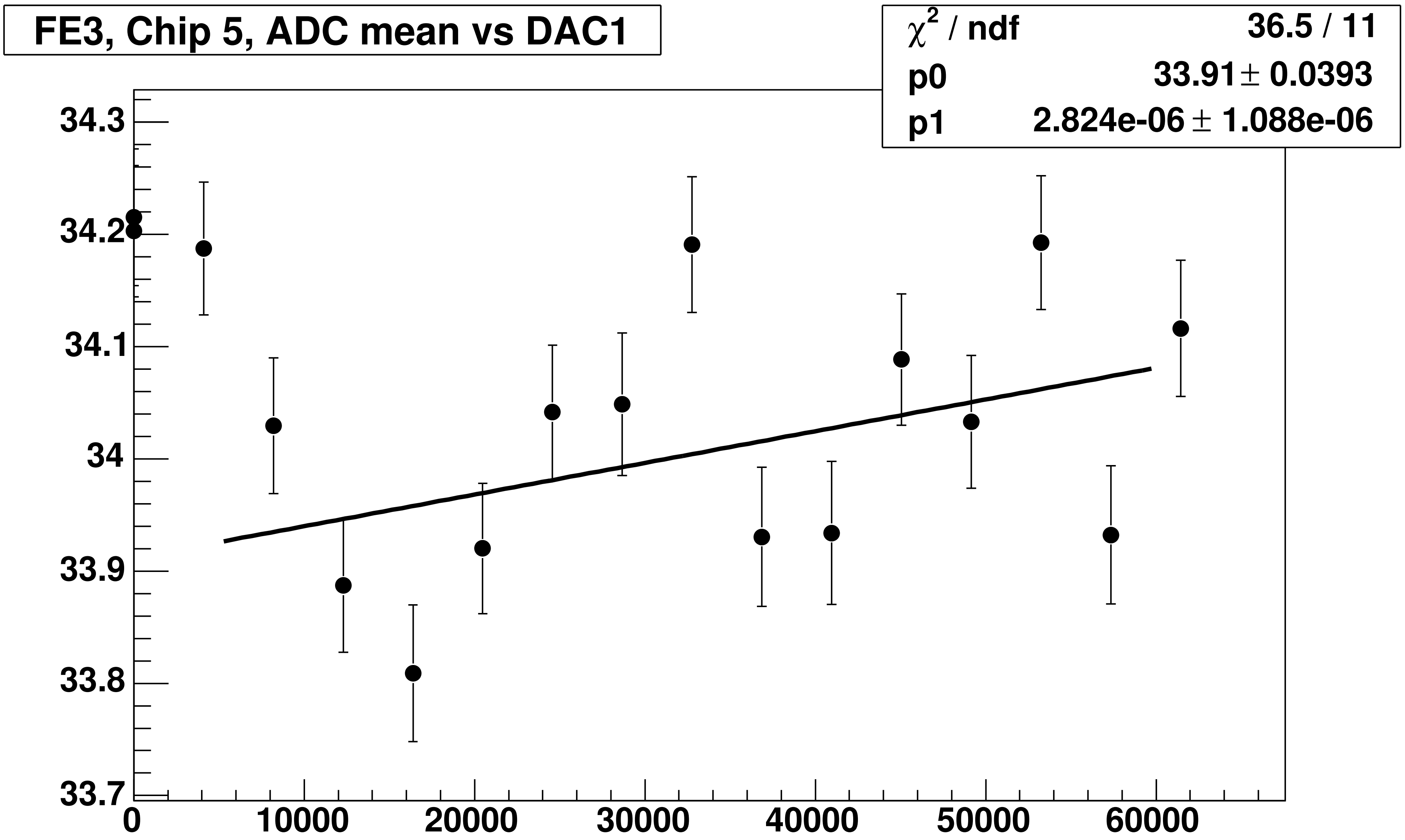

FE3, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE3, Chip 5, ADC mean vs DAC0
χ^2 / ndf 786.6 / 11
p0 33.48 ± 0.04161
p1 0.45 ± 1.323e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

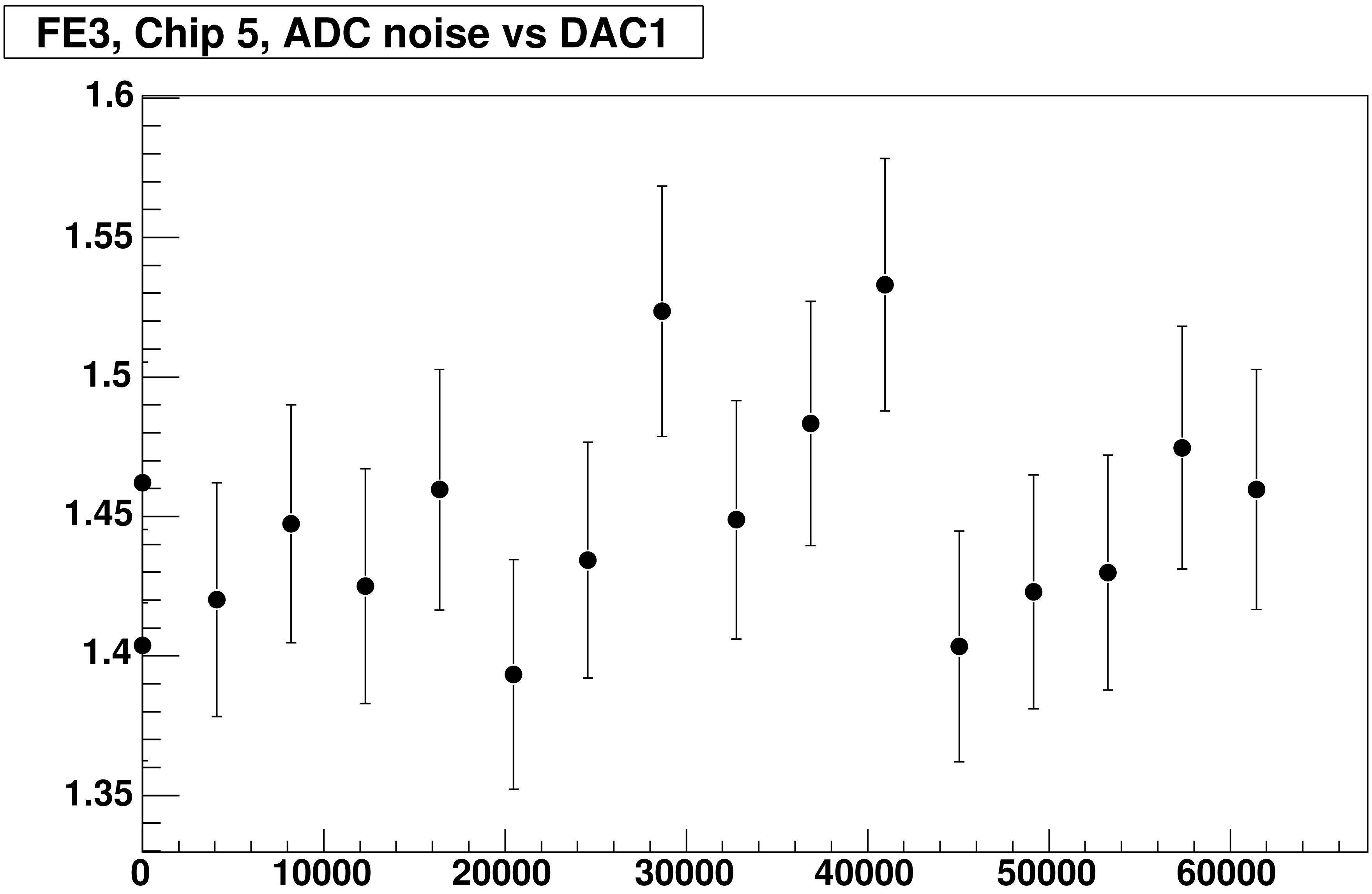

FE3, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

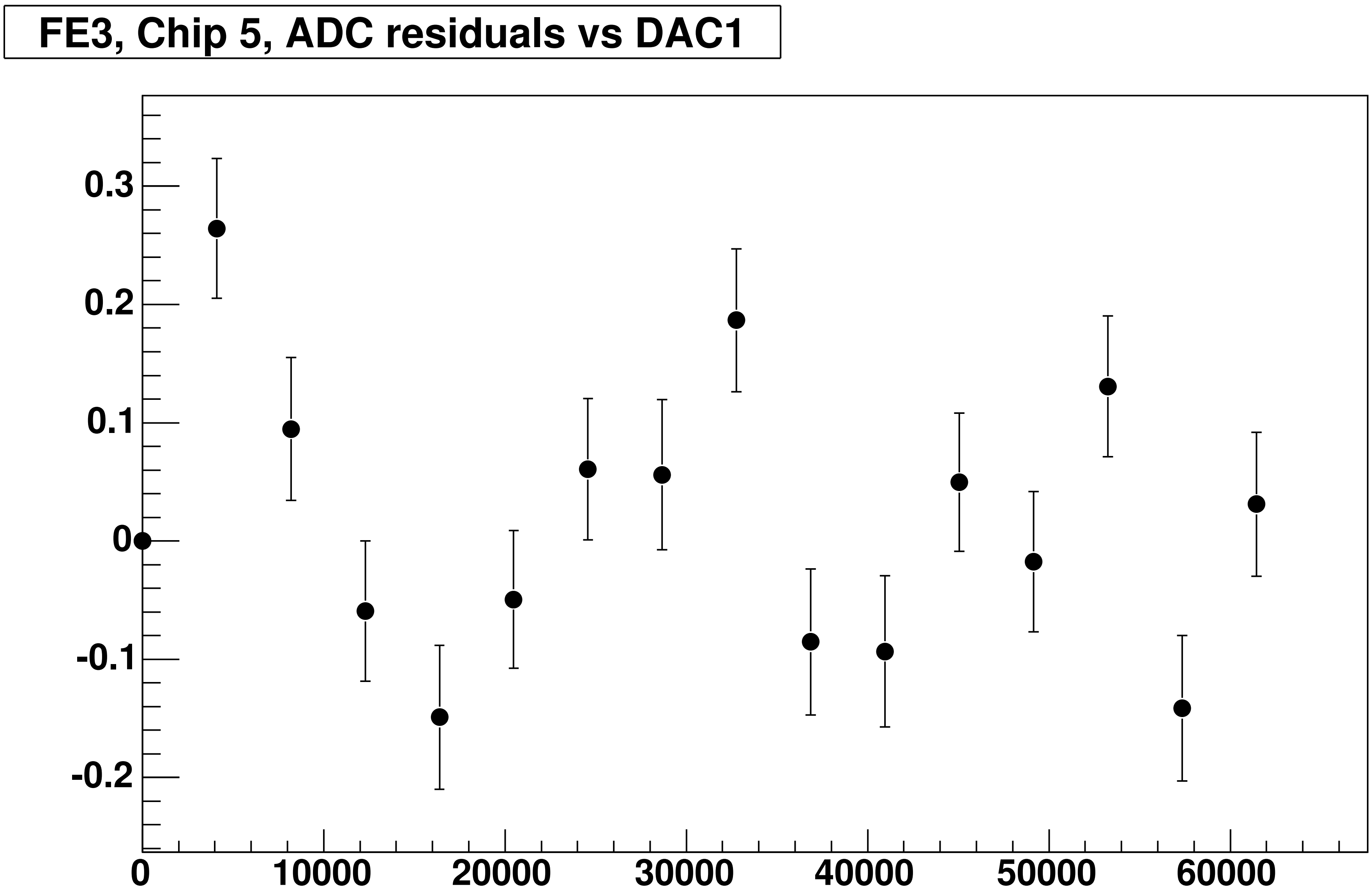
FE3, Chip 5, ADC residuals vs DAC0



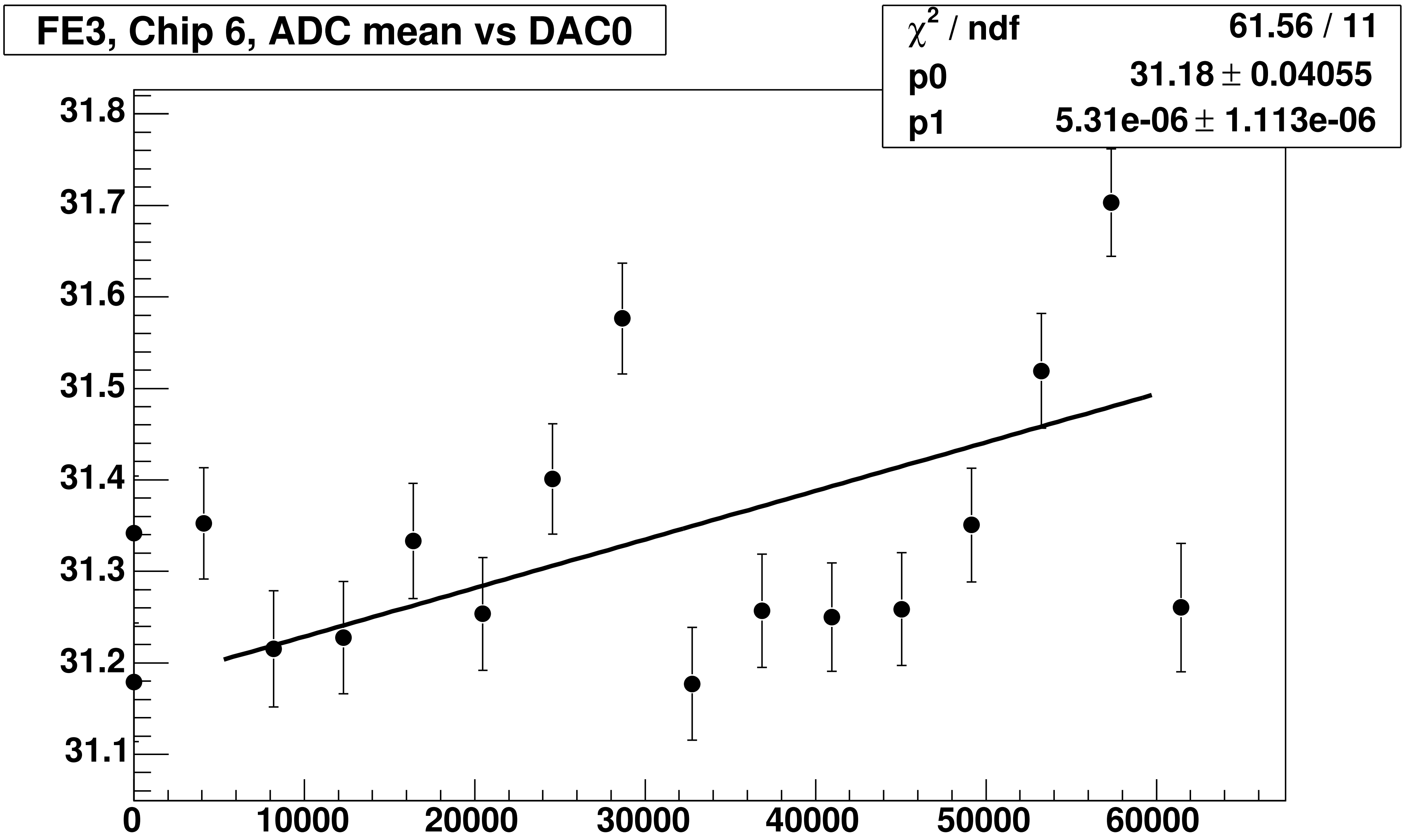


FE3, Chip 5, ADC mean vs DAC1
χ^2 / ndf 36.5 / 11
p0 33.91 ± 0.0393
p1 2.824e-06 ± 1.088e-06
34.3
34.2
34.1
34
33.9
33.8
33.7
0
10000
20000
30000
40000
50000
60000

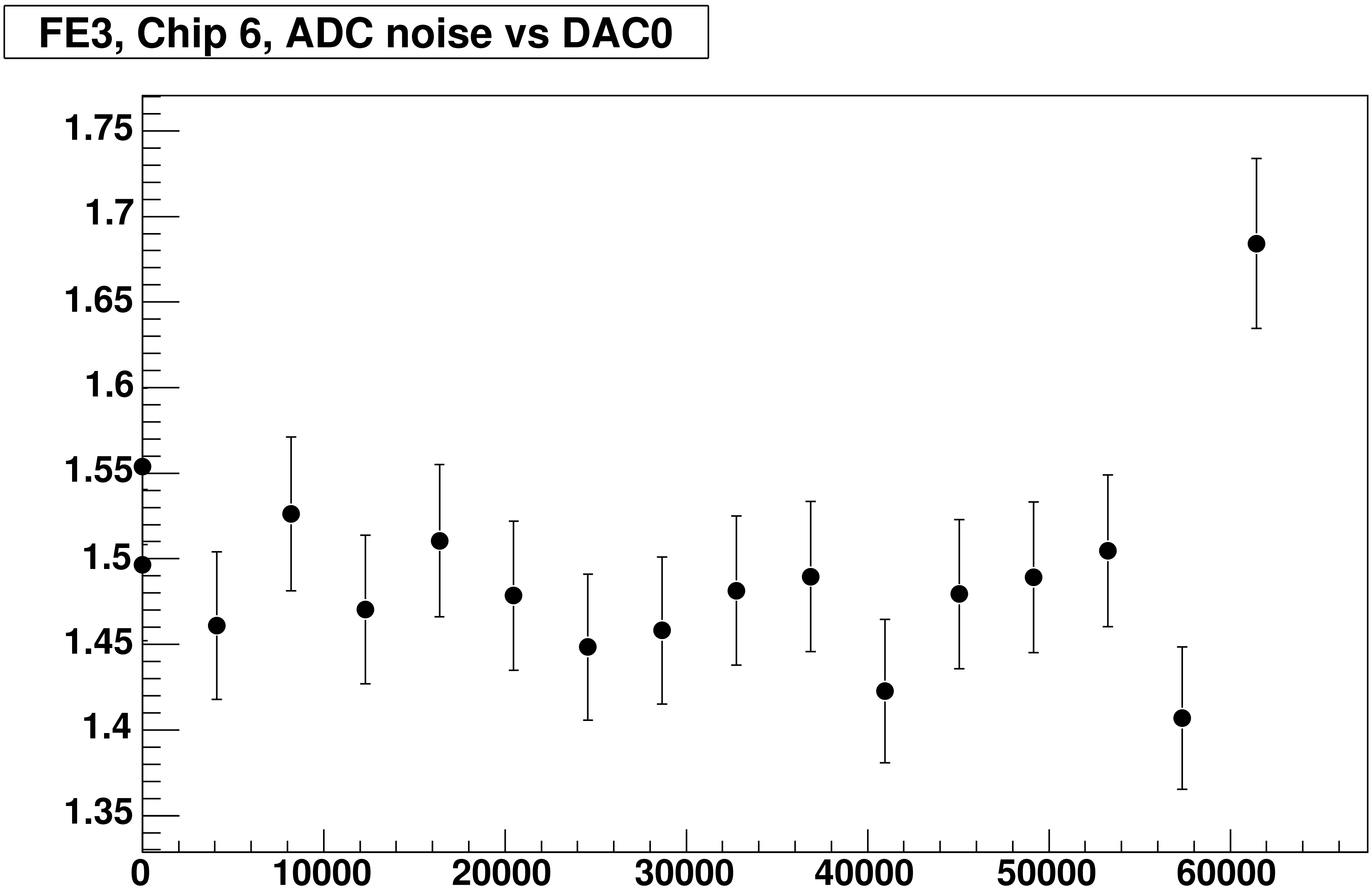

FE3, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

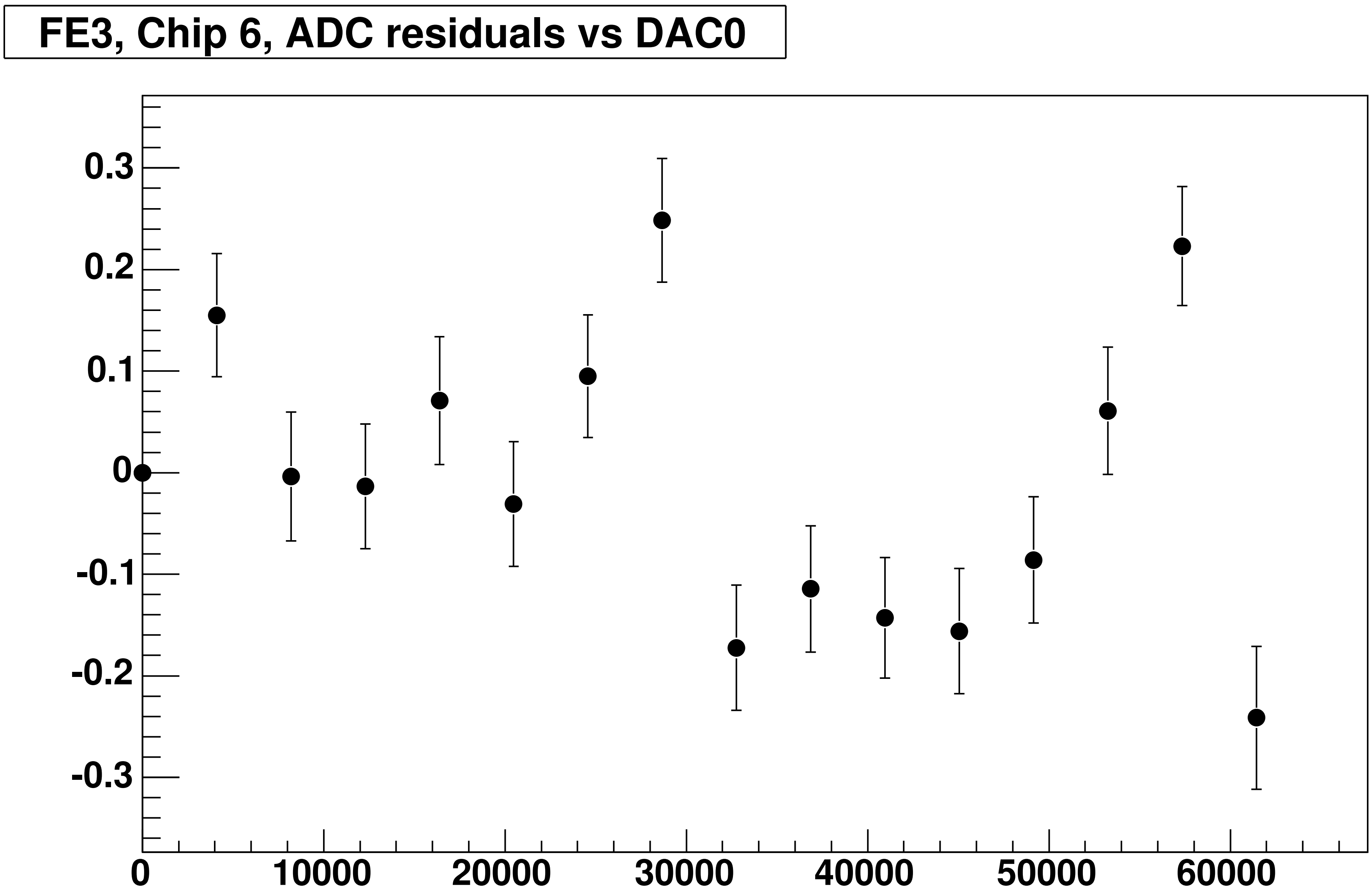


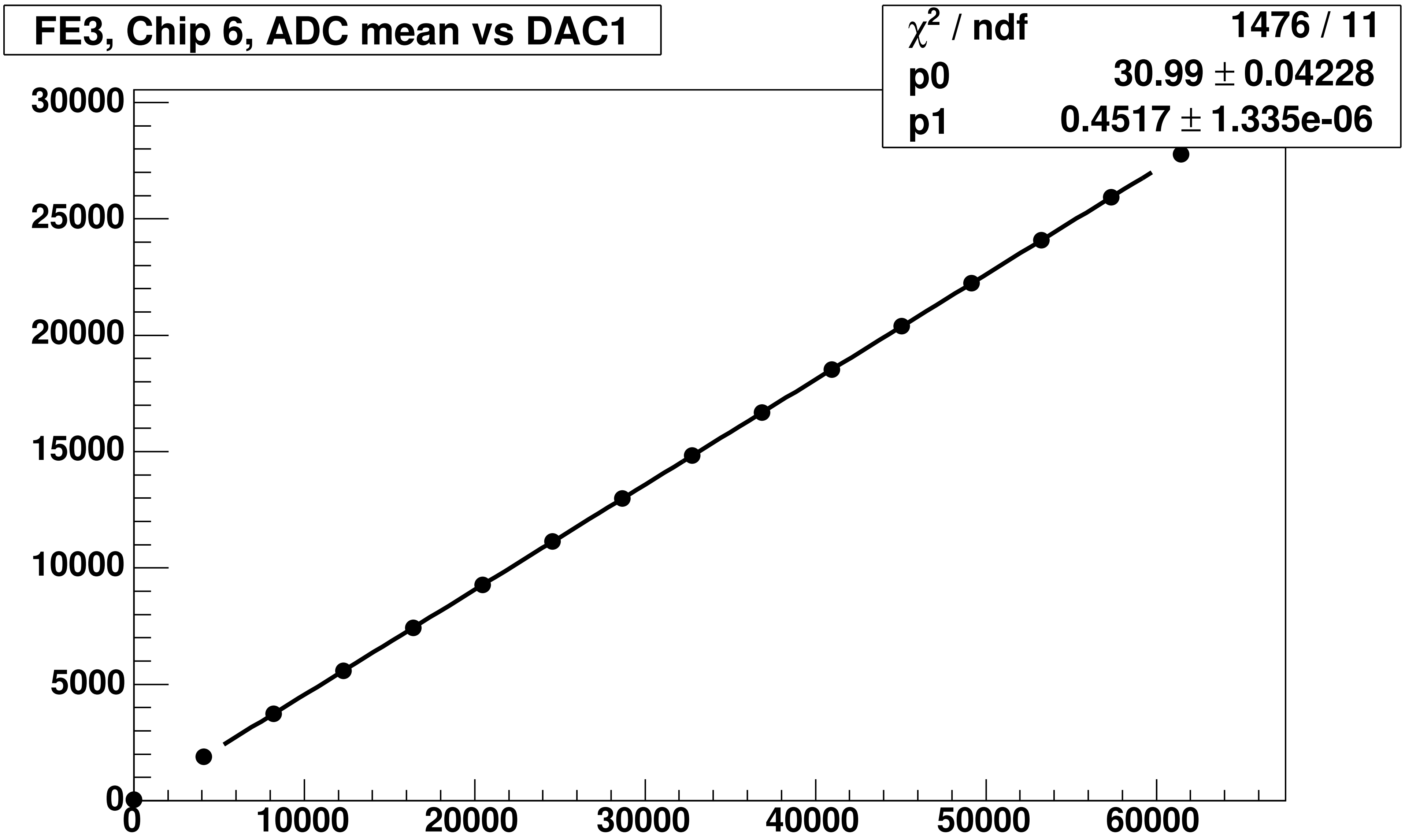
FE3, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

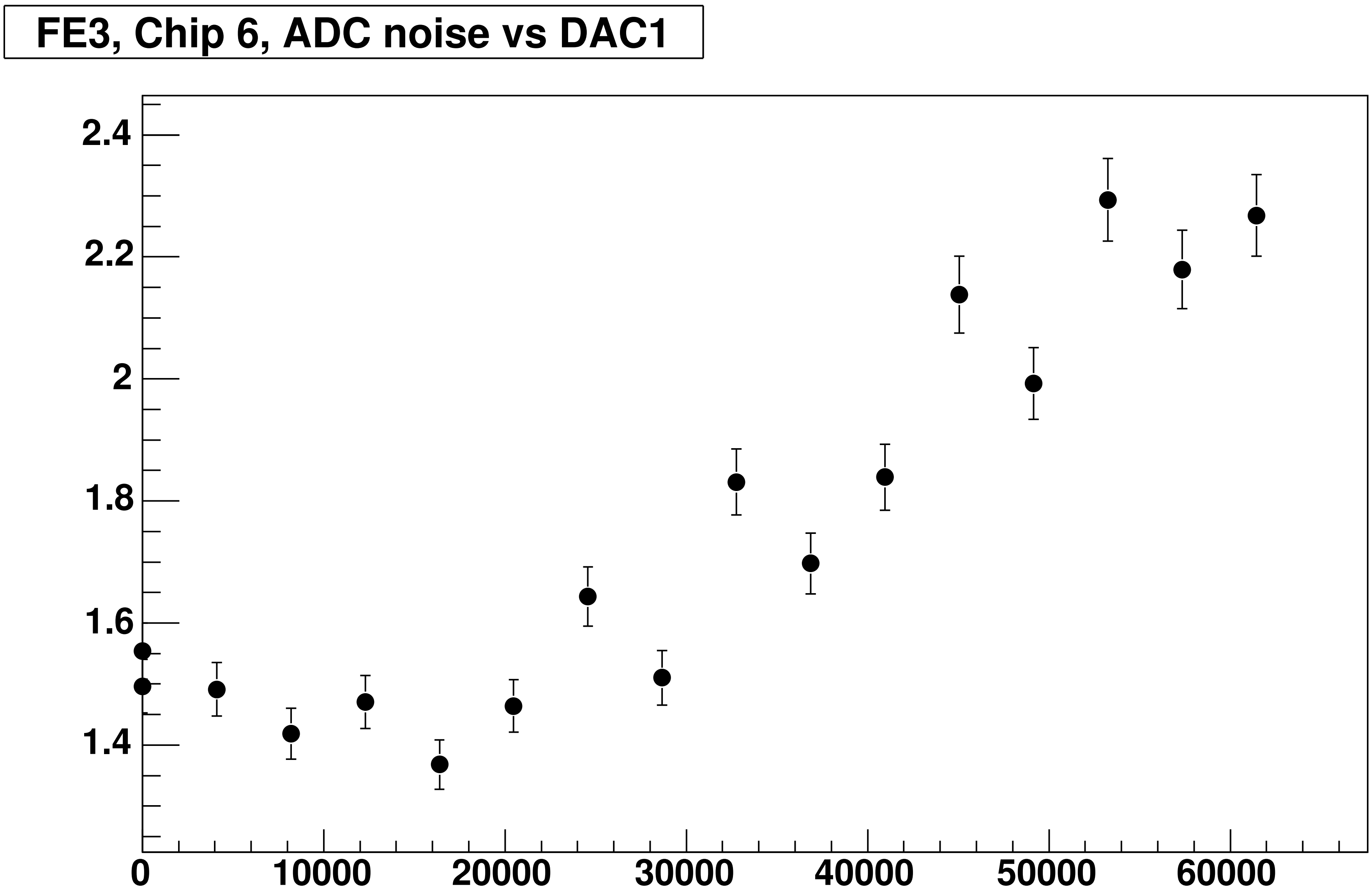


FE3, Chip 6, ADC mean vs DAC0
χ² / ndf 61.56 / 11
p0 31.18 ± 0.04055
p1 5.31e-06 ± 1.113e-06
31.1
31.2
31.3
31.4
31.5
31.6
31.7
31.8
0
10000
20000
30000
40000
50000
60000

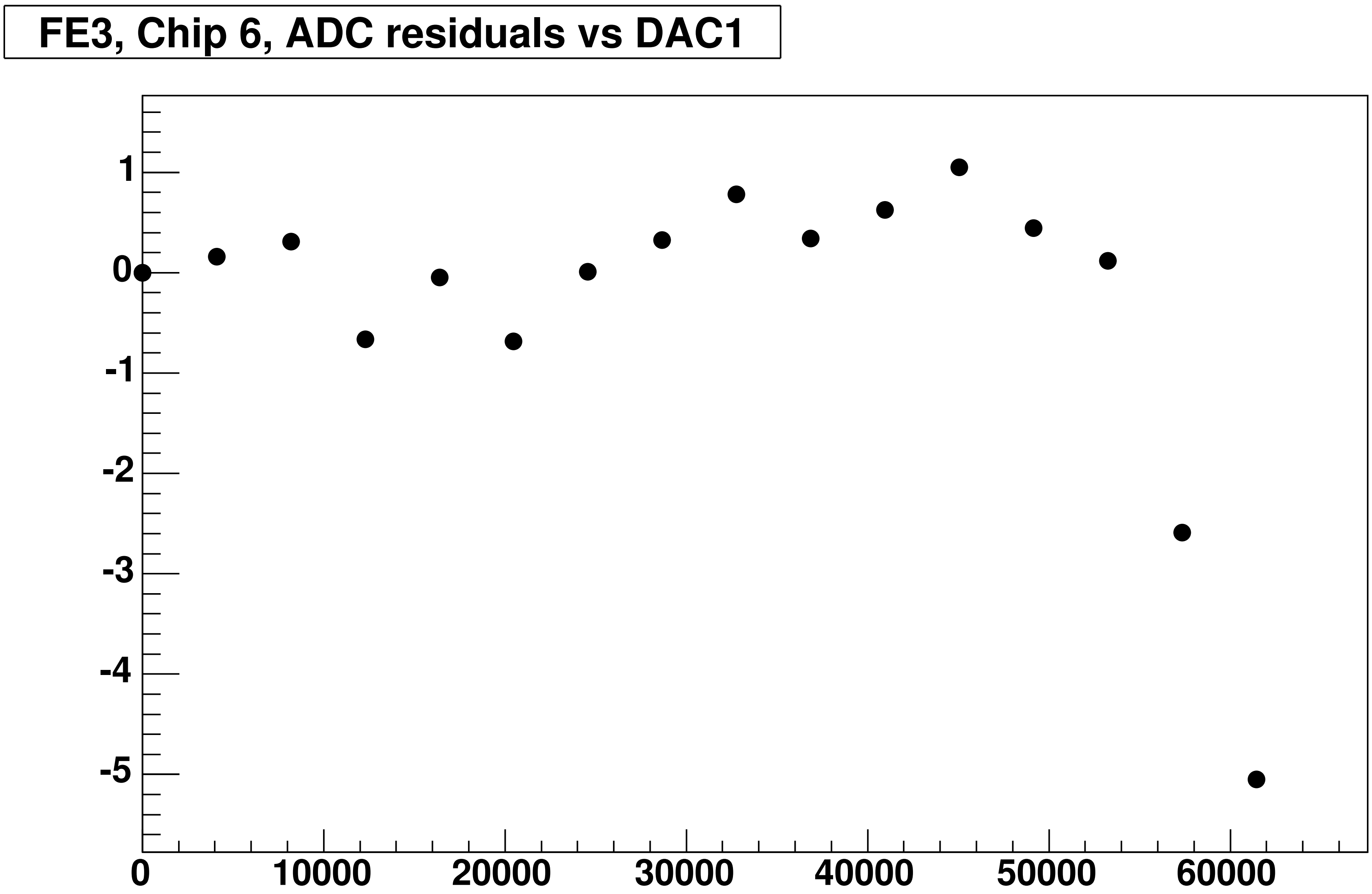

FE3, Chip 6, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

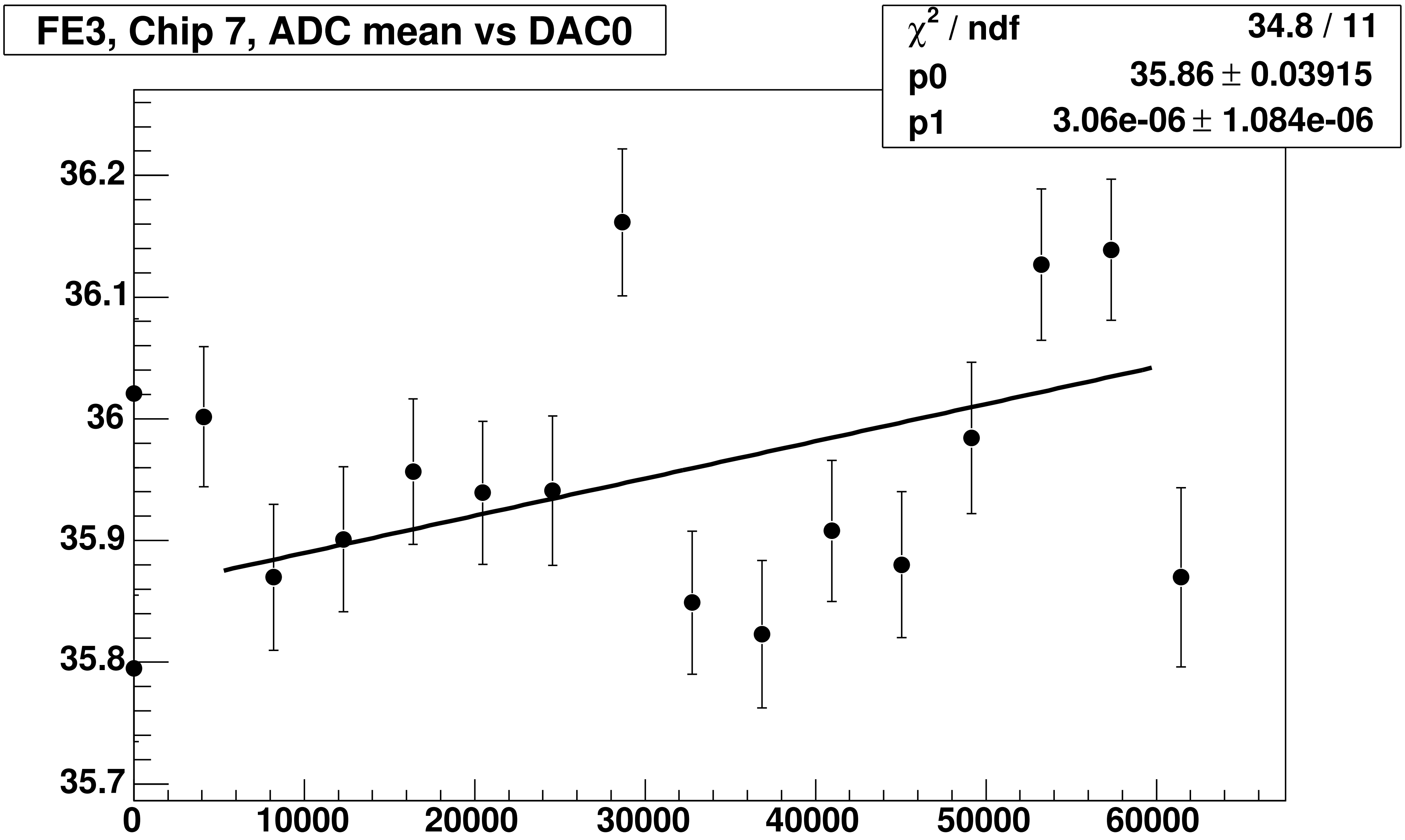

FE3, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE3, Chip 6, ADC mean vs DAC1
χ2 / ndf 1476 / 11
p0 30.99 ± 0.04228
p1 0.4517 ± 1.335e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

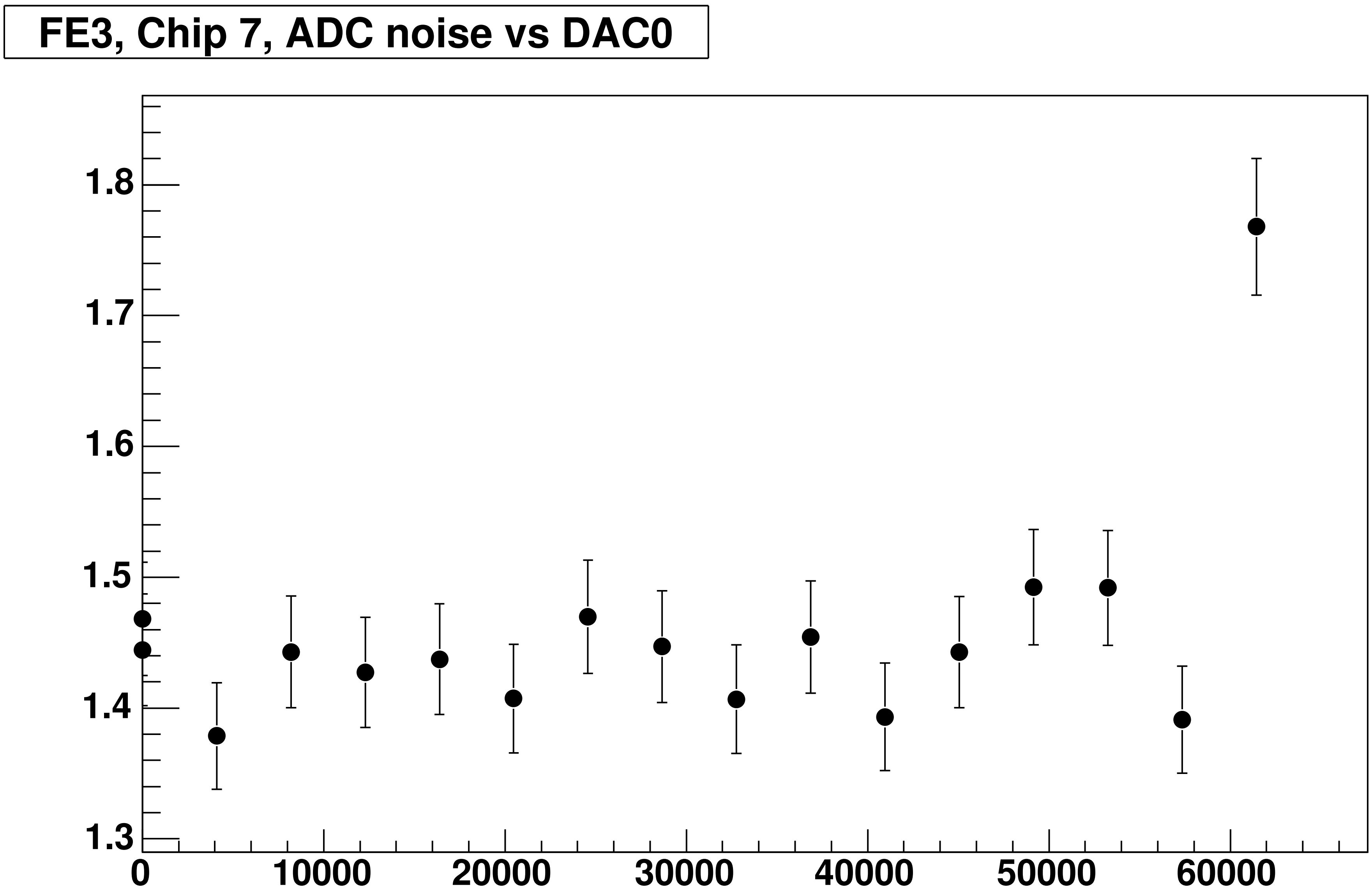


FE3, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

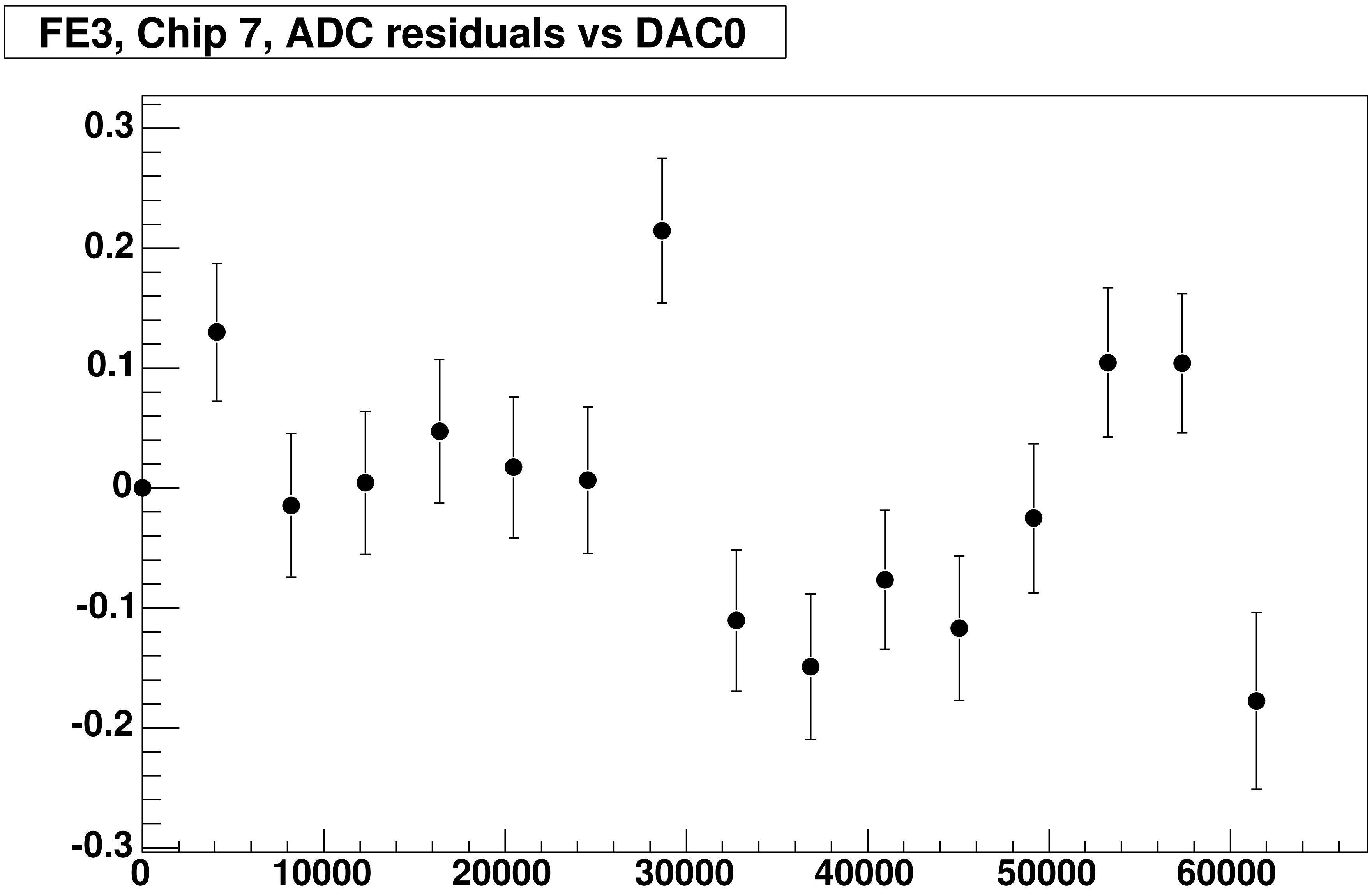

FE3, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



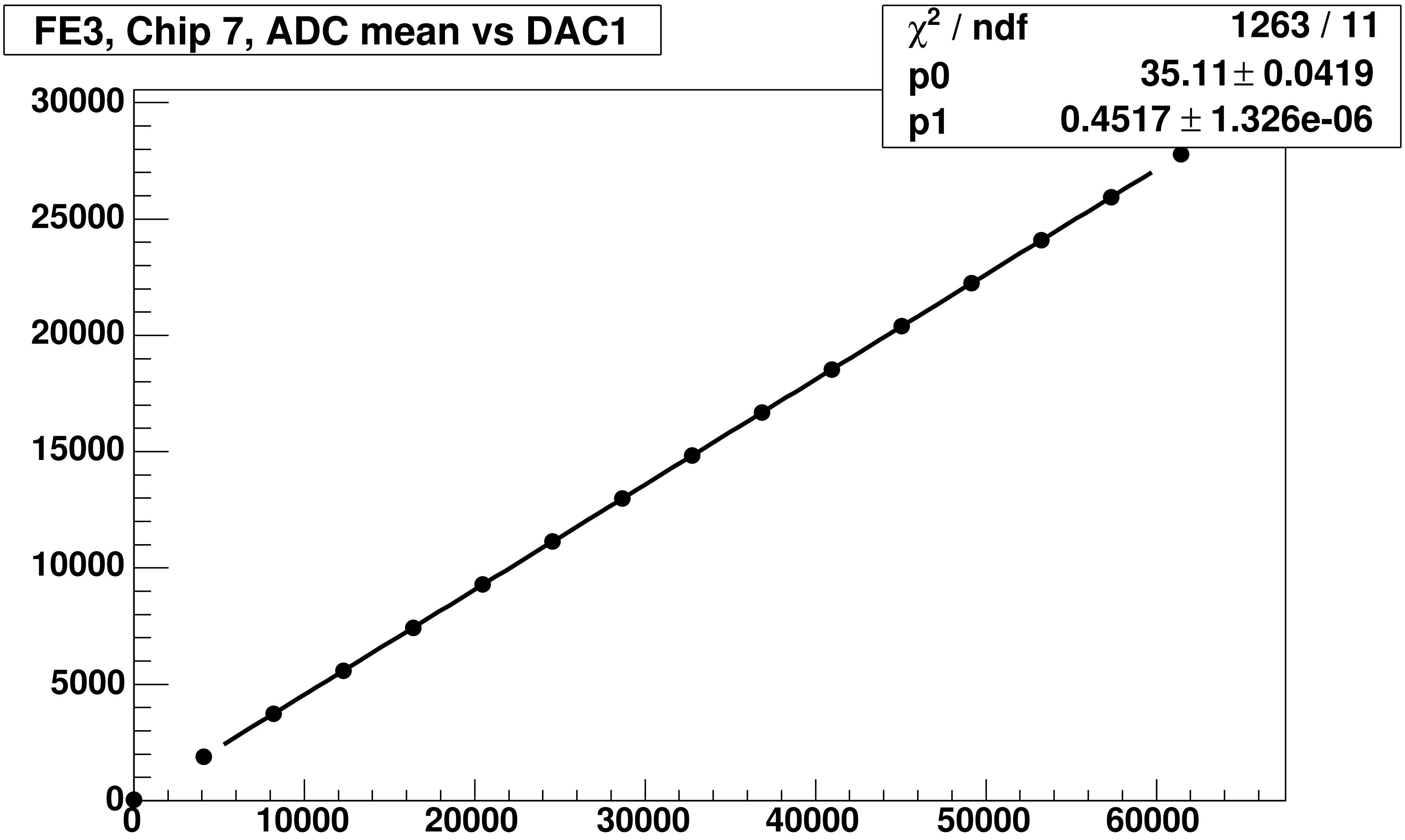
FE3, Chip 7, ADC mean vs DAC0
χ^2 / ndf 34.8 / 11
p0 35.86 ± 0.03915
p1 3.06e-06 ± 1.084e-06
36.2
36.1
36
35.9
35.8
35.7
0
10000
20000
30000
40000
50000
60000

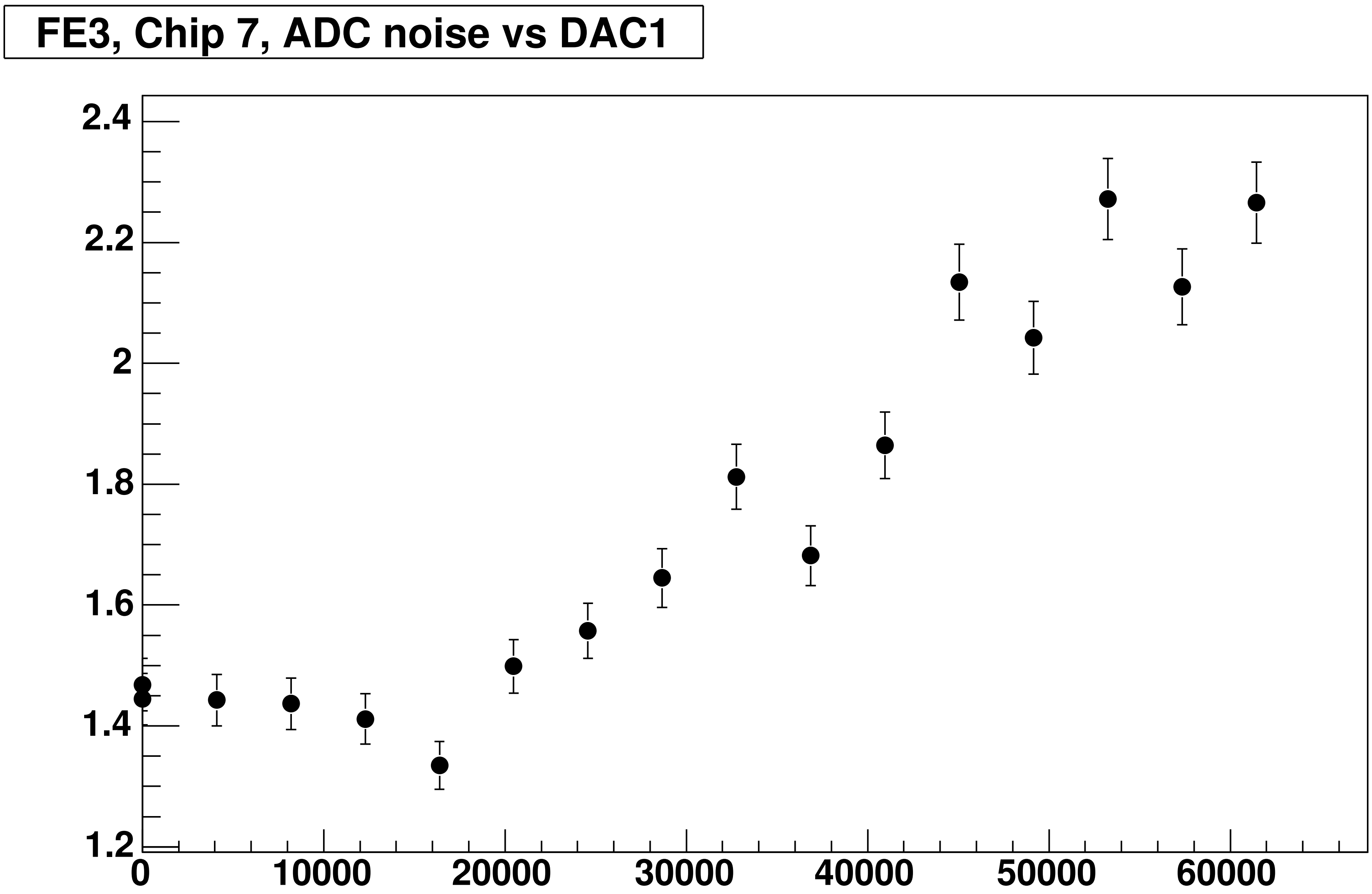


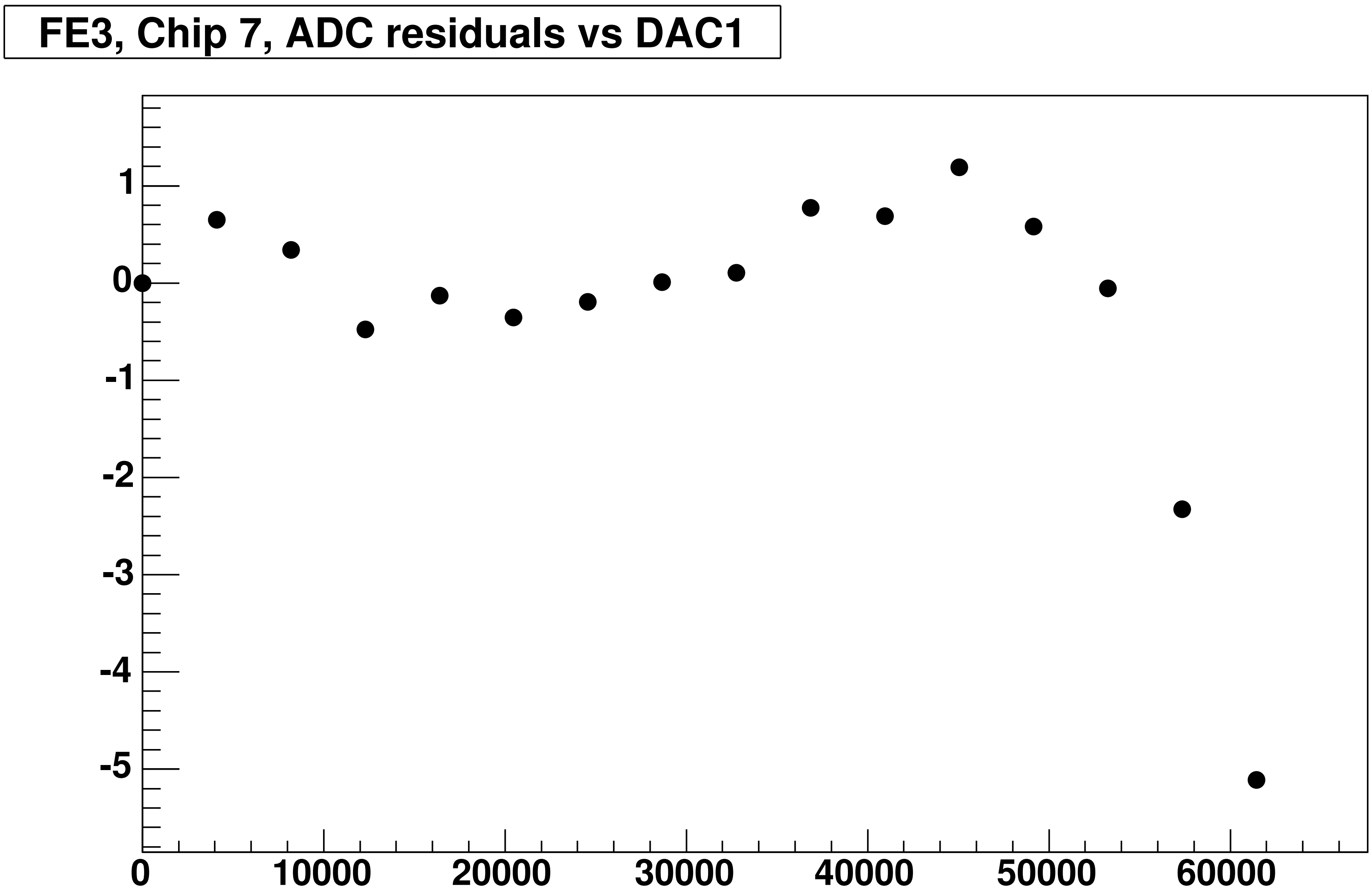
FE3, Chip 7, ADC noise vs DAC0
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000



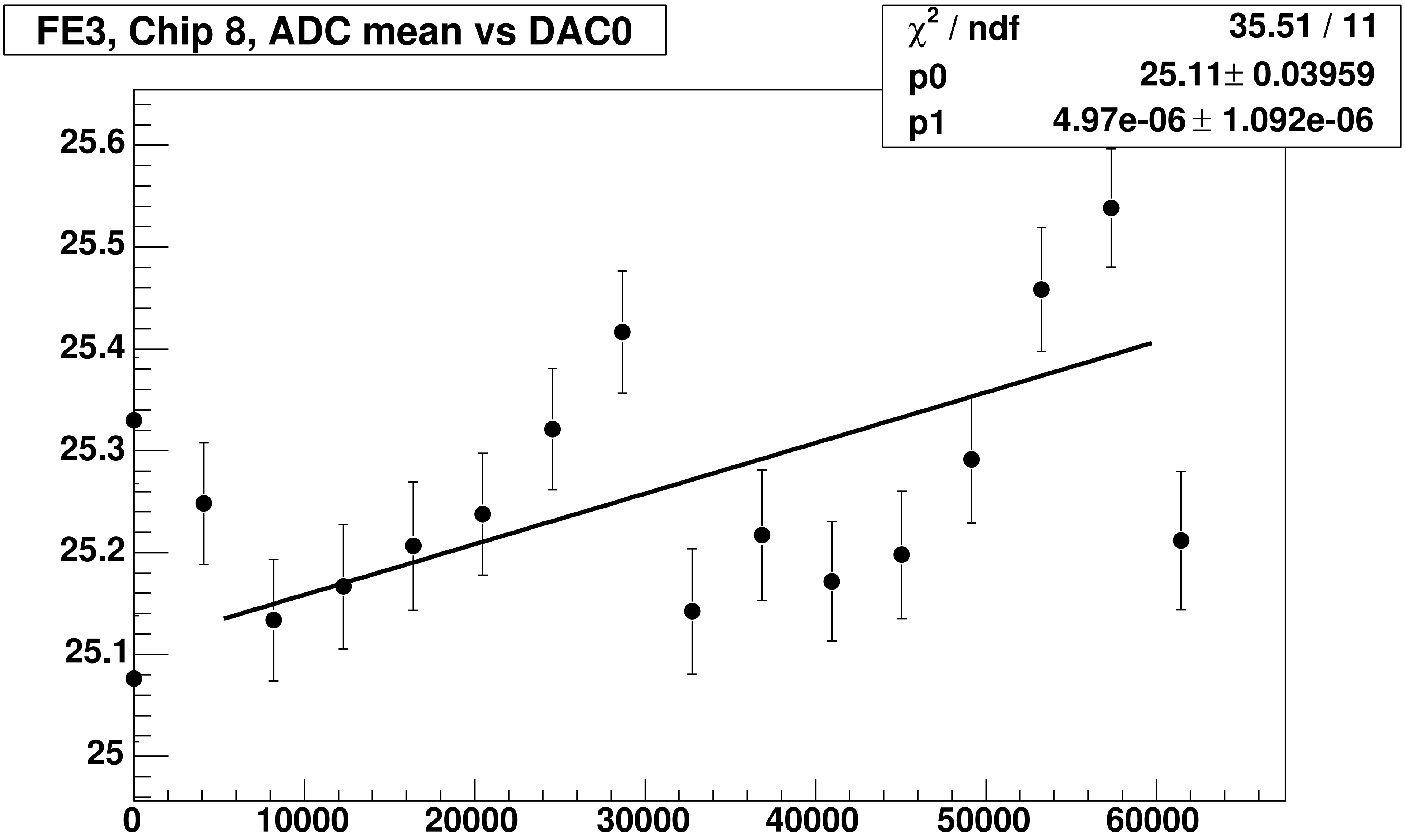
FE3, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE3, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1263 / 11
p0 35.11 ± 0.0419
p1 0.4517 ± 1.326e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

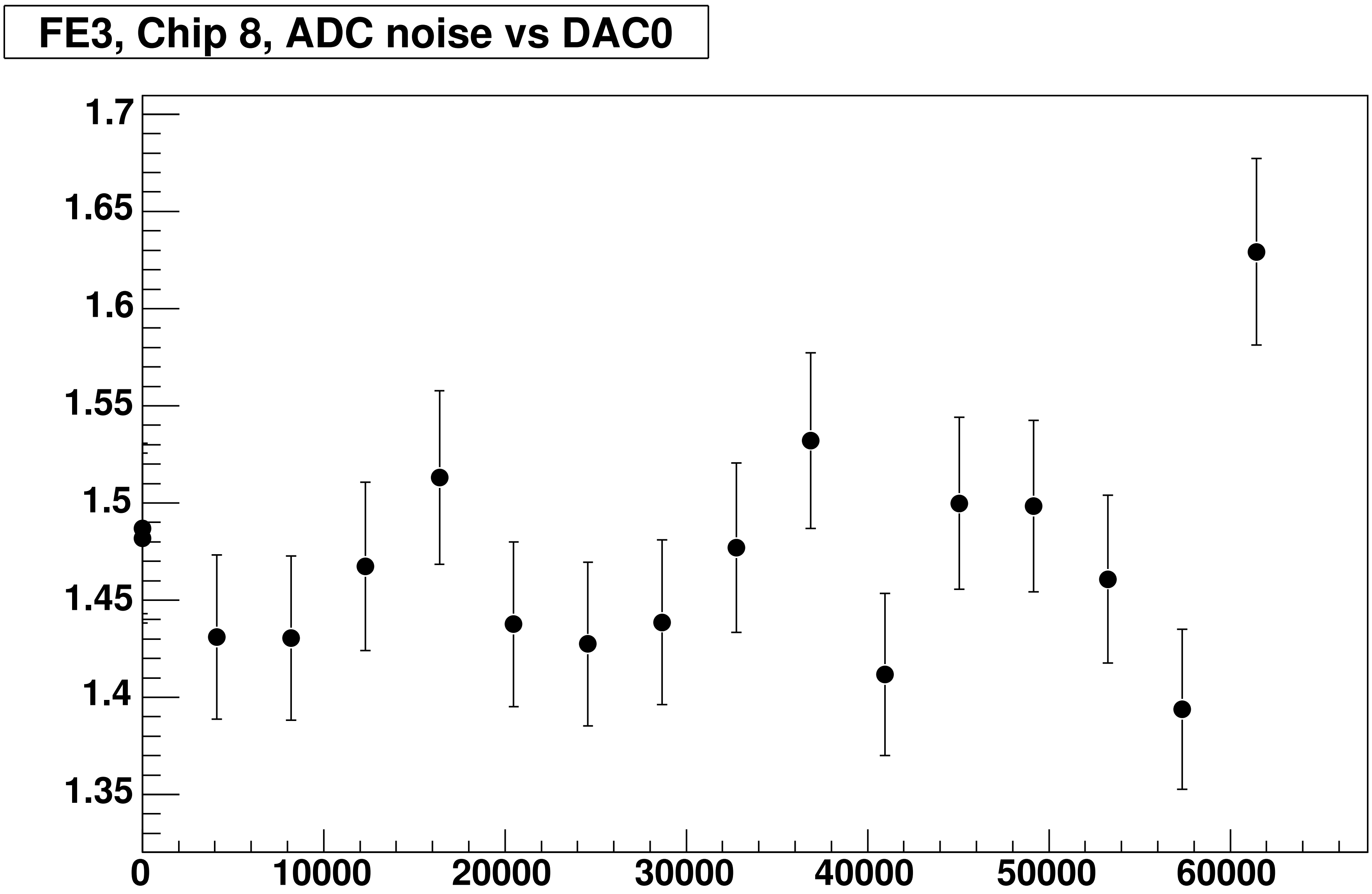

FE3, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

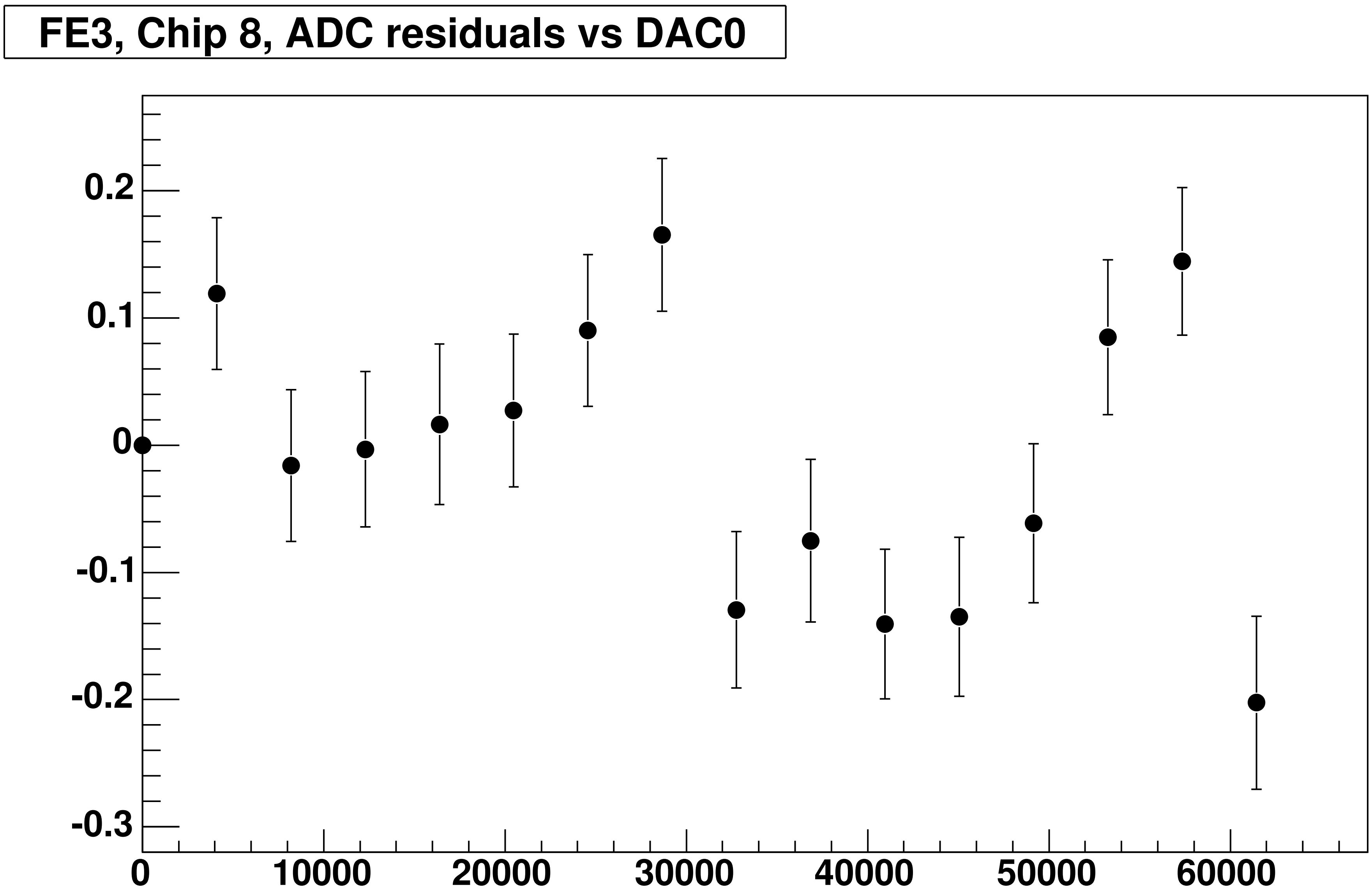


FE3, Chip 7, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

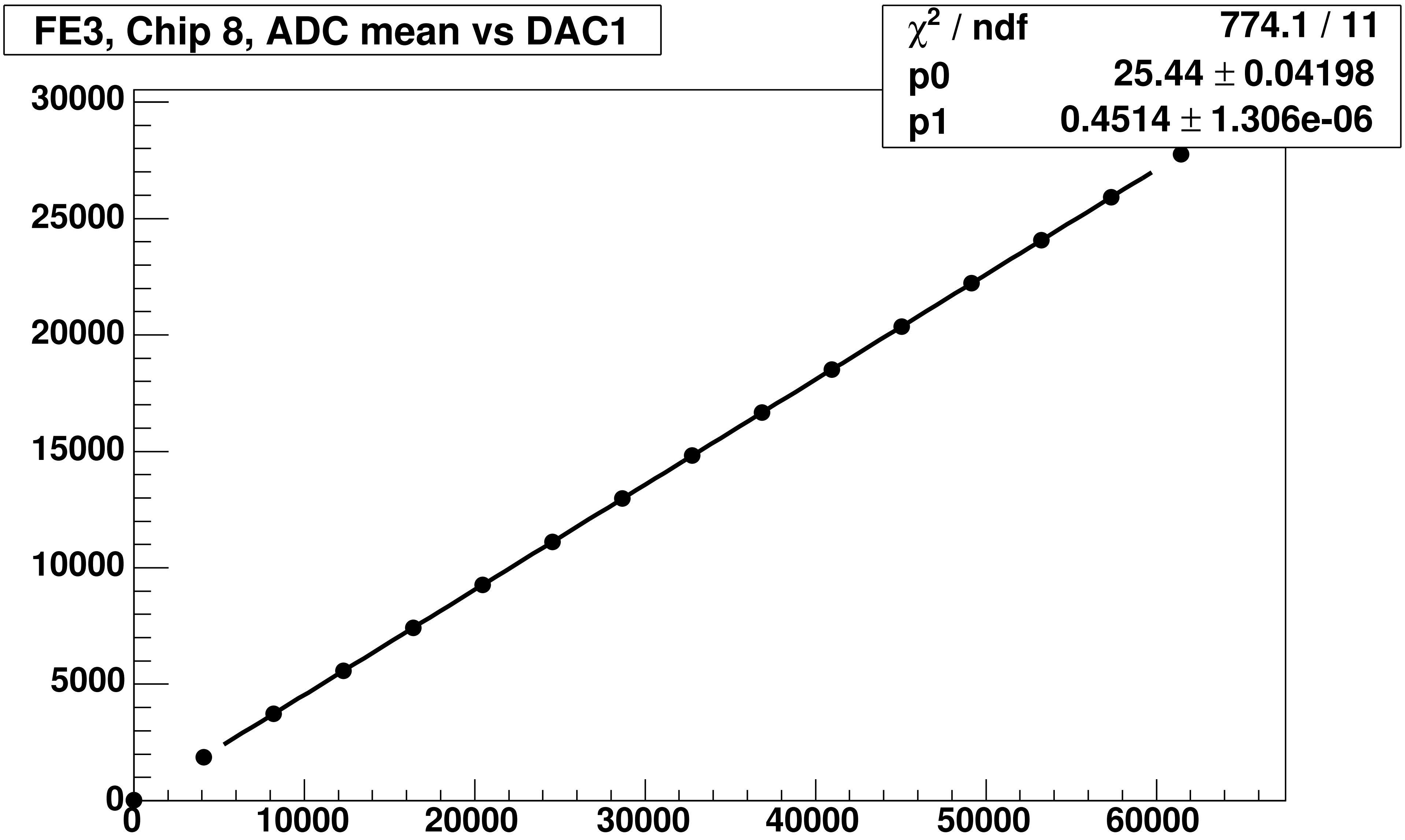


FE3, Chip 8, ADC mean vs DAC0
χ^2 / ndf 35.51 / 11
p0 25.11 ± 0.03959
p1 4.97e-06 ± 1.092e-06
25.6
25.5
25.4
25.3
25.2
25.1
25
0
10000
20000
30000
40000
50000
60000

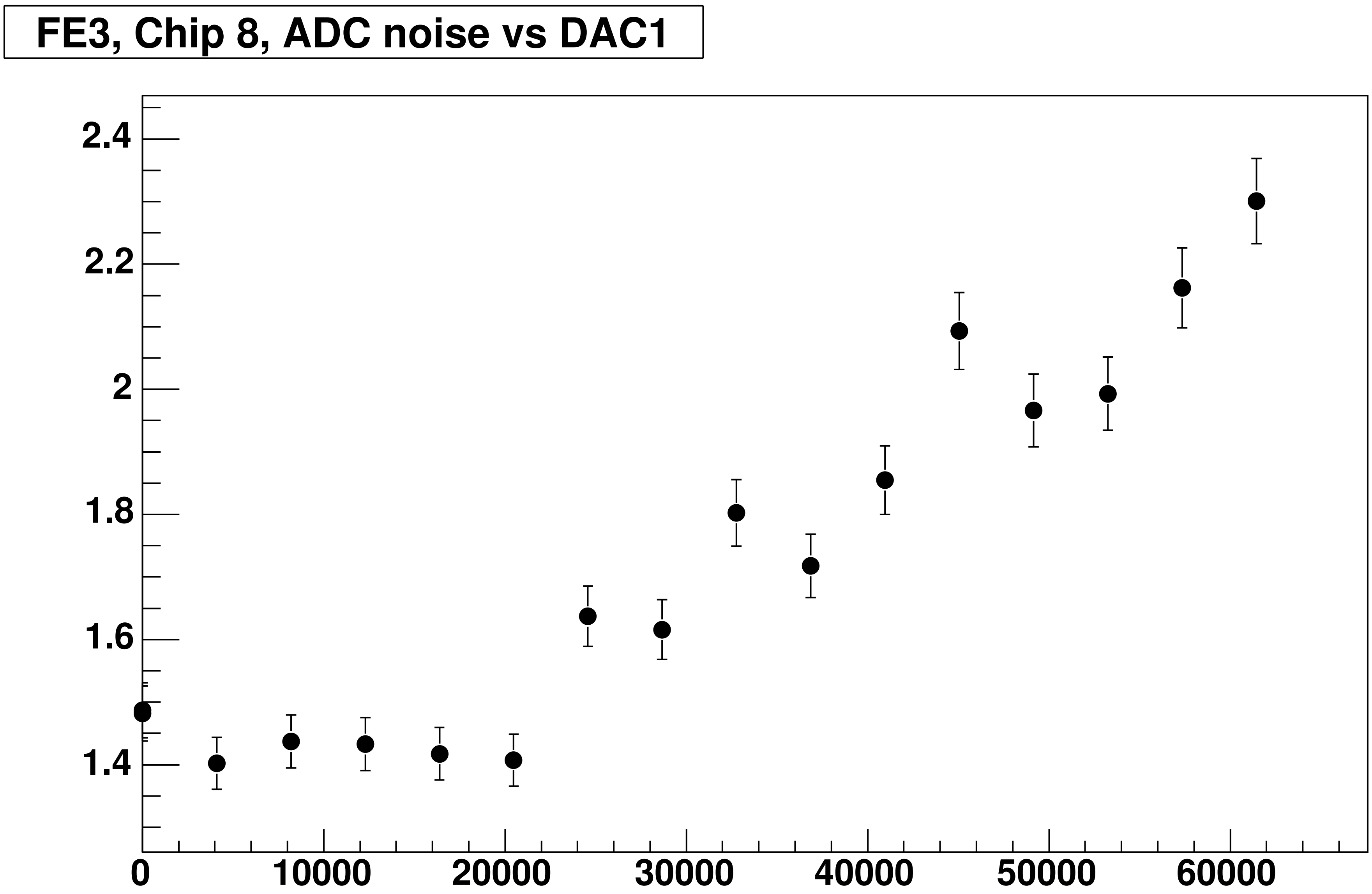

FE3, Chip 8, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

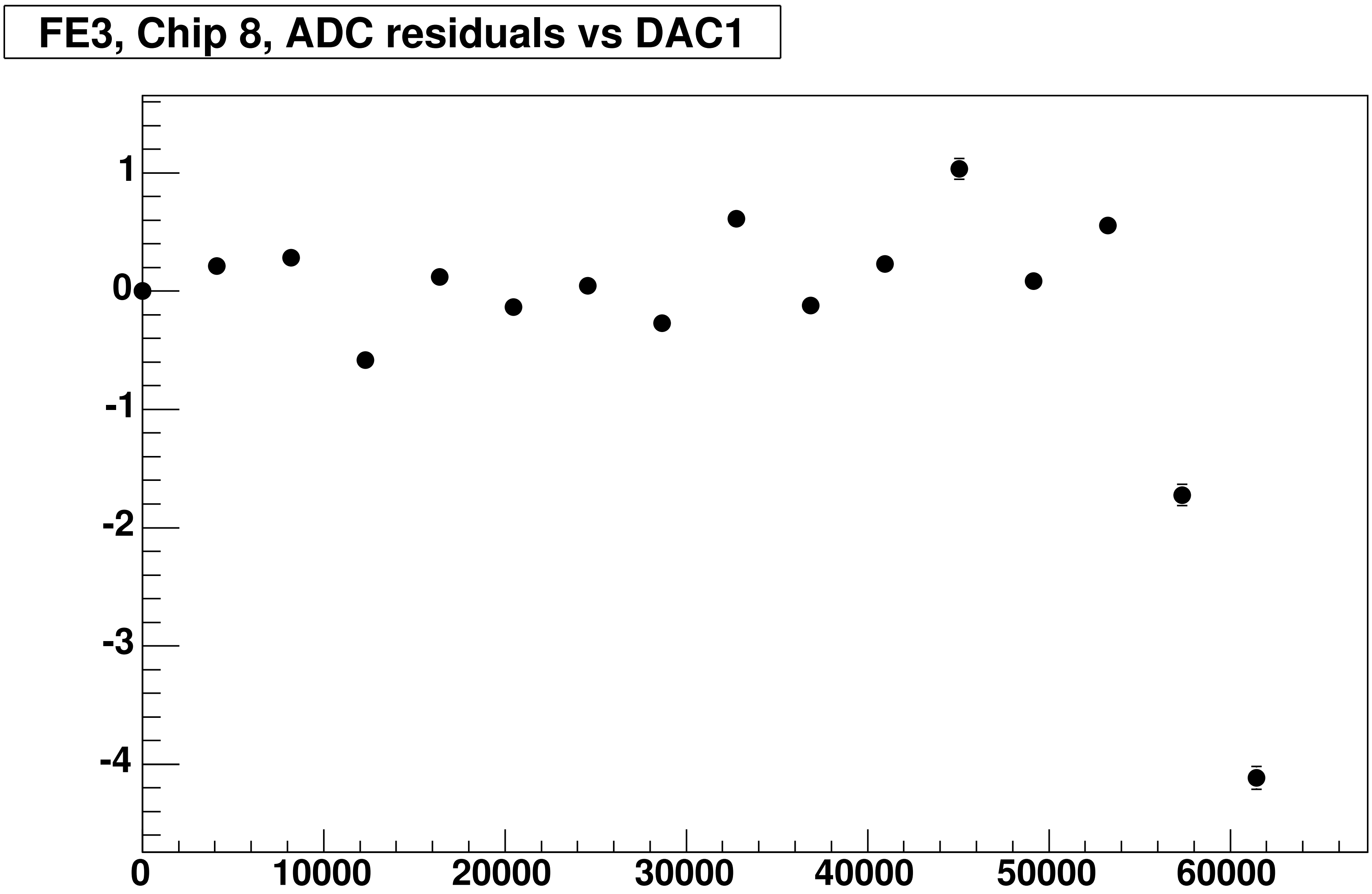


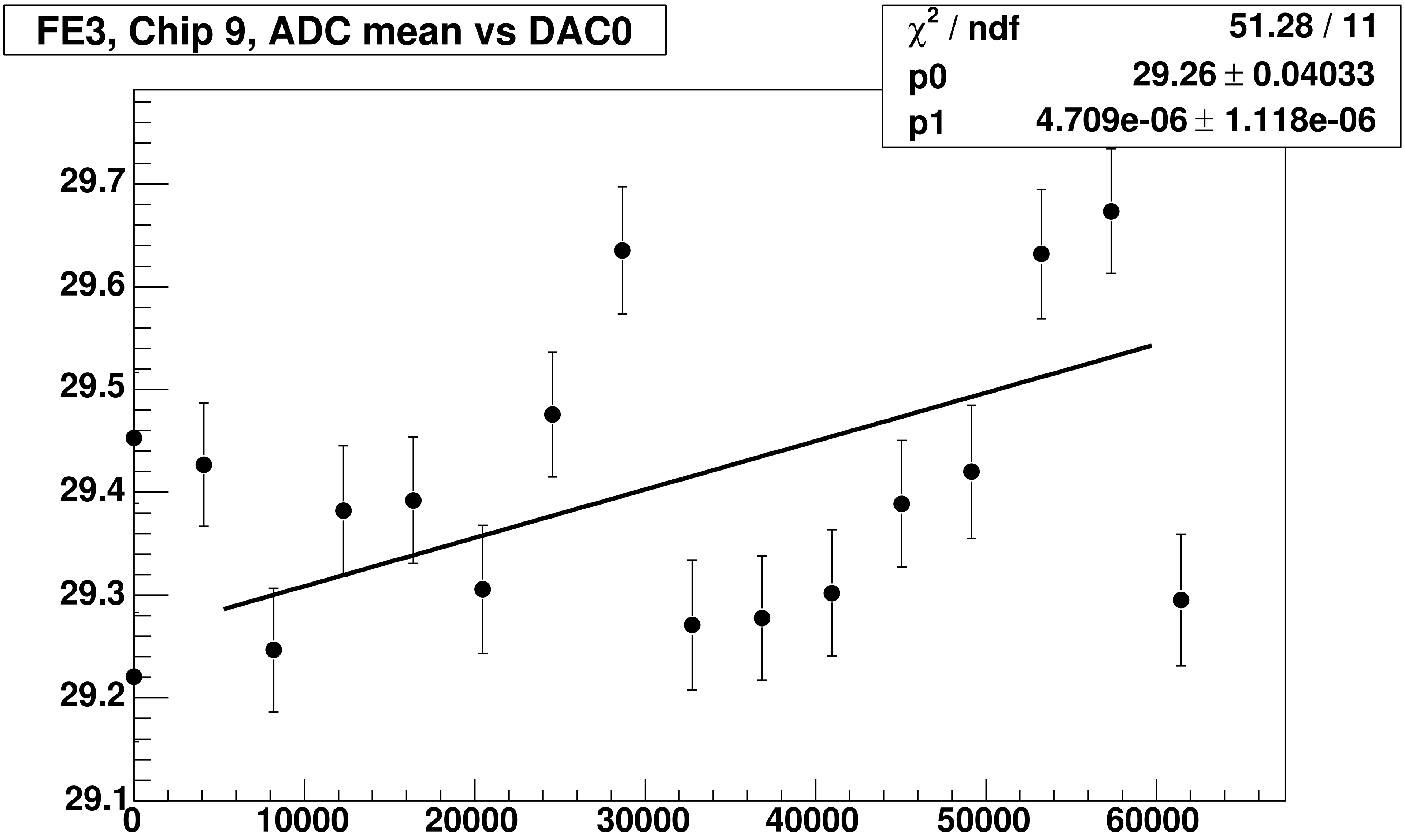
FE3, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



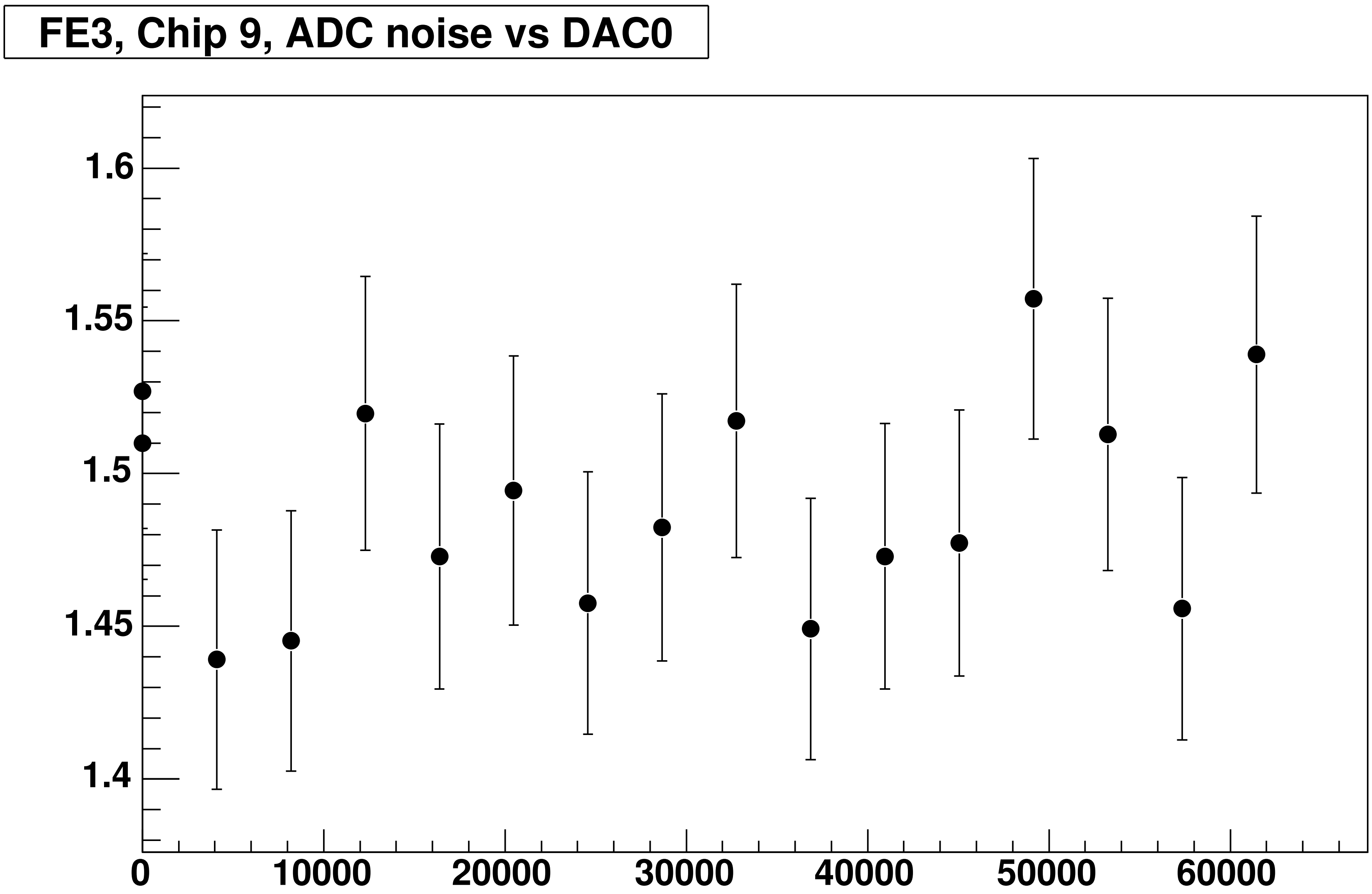
FE3, Chip 8, ADC mean vs DAC1
χ^2 / ndf 774.1 / 11
p0 25.44 ± 0.04198
p1 0.4514 ± 1.306e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

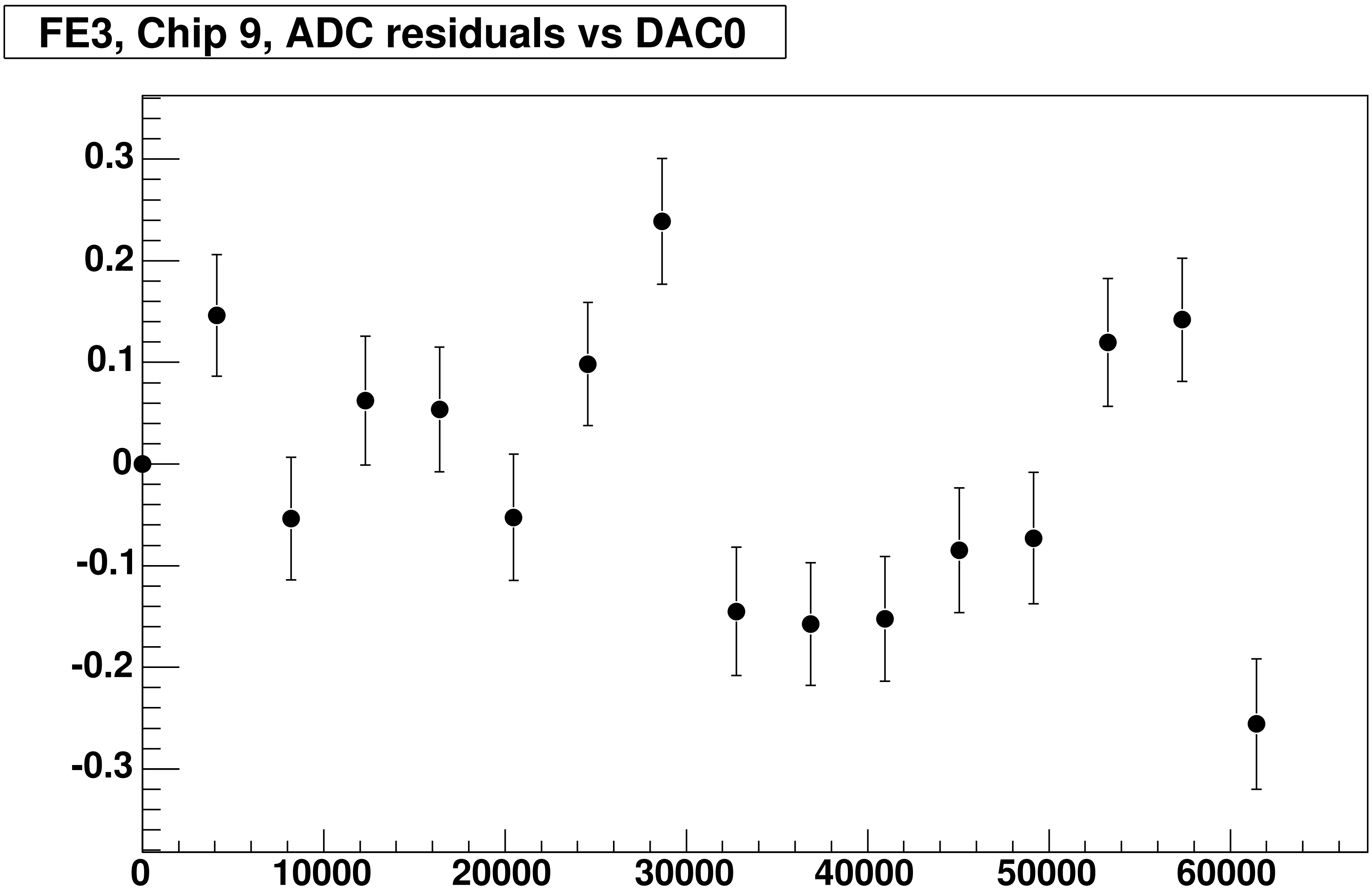

FE3, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

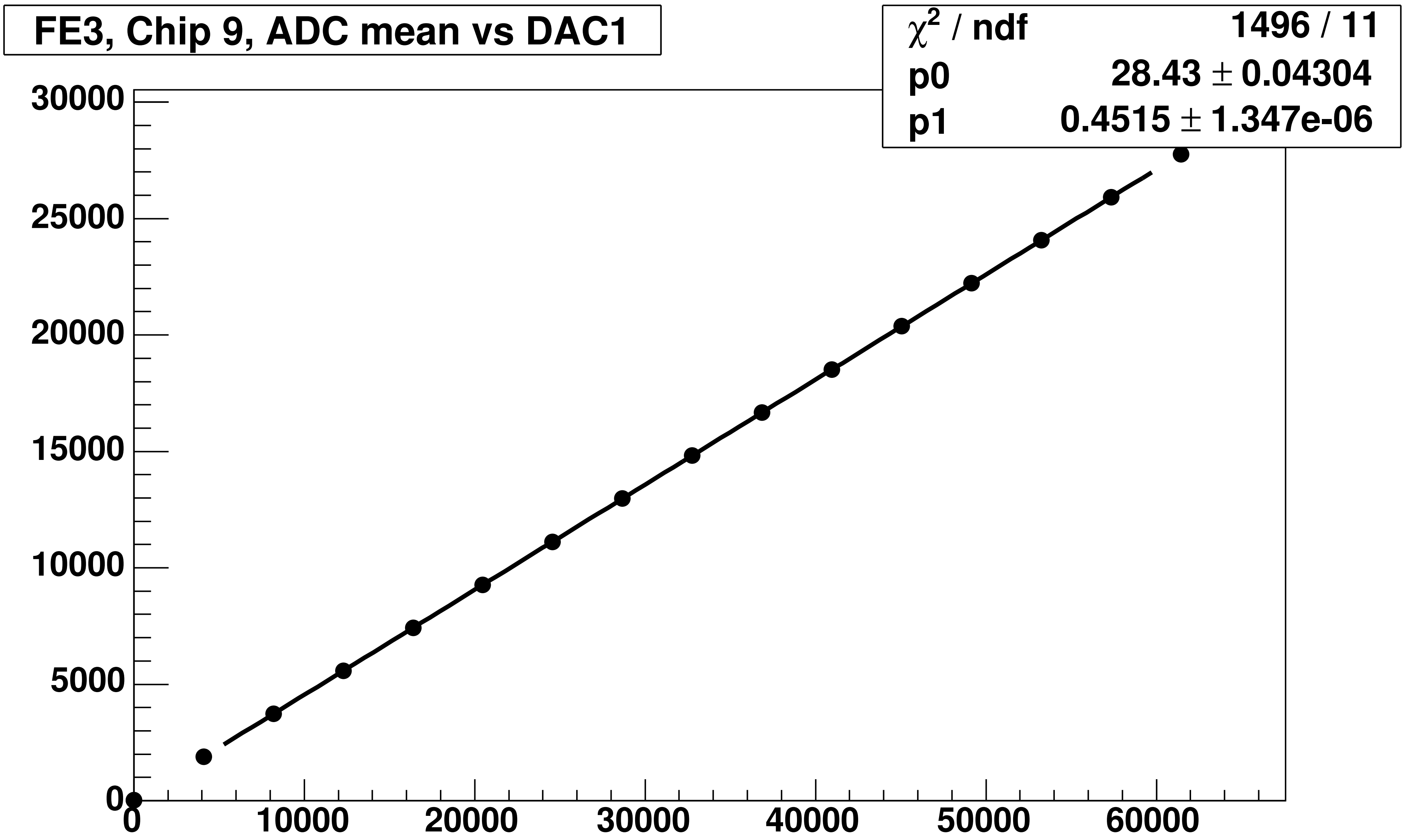


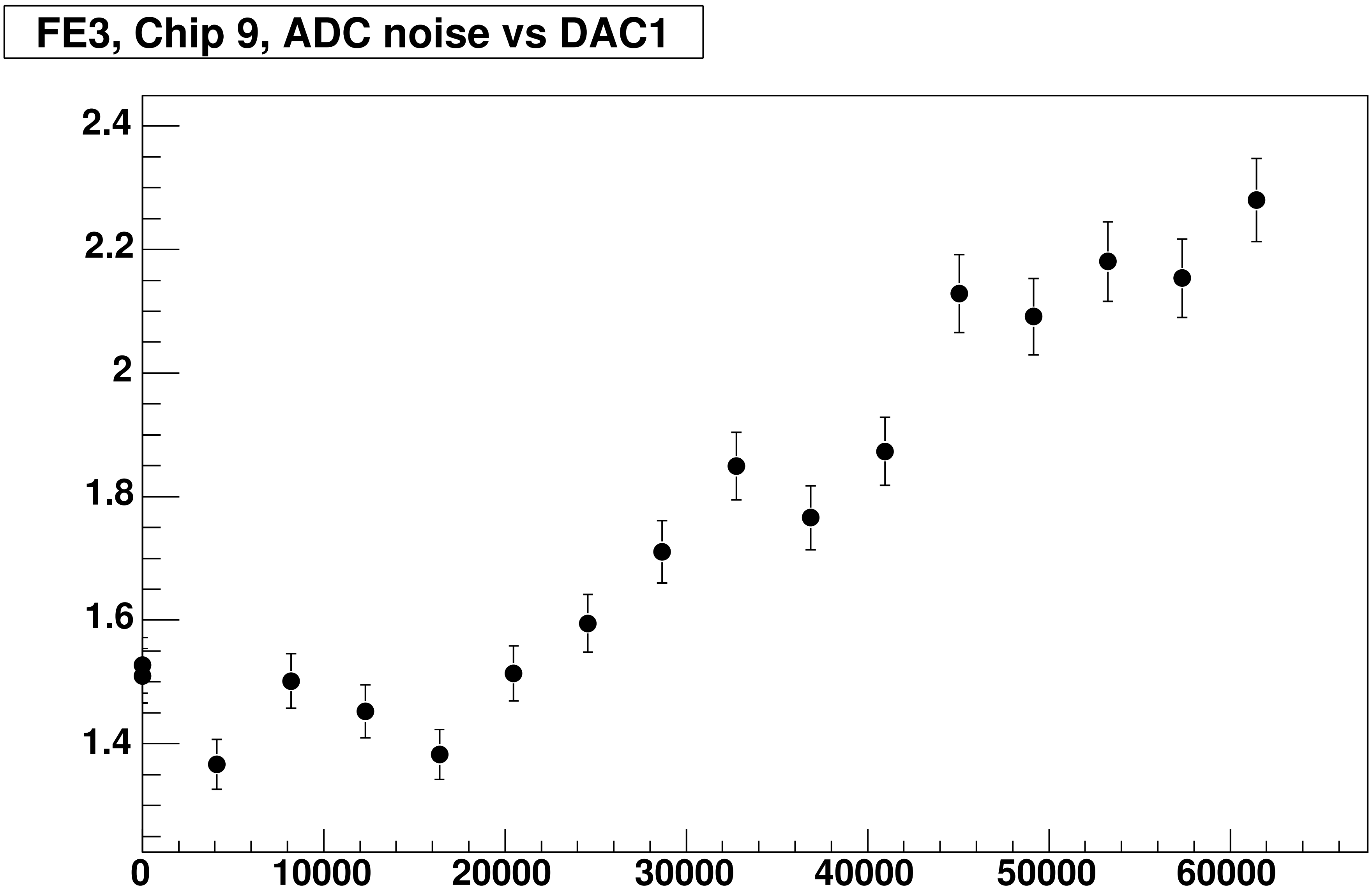
FE3, Chip 9, ADC mean vs DAC0
χ^2 / ndf 51.28 / 11
p0 29.26 ± 0.04033
p1 4.709e-06 ± 1.118e-06
29.1
29.2
29.3
29.4
29.5
29.6
29.7
0
10000
20000
30000
40000
50000
60000

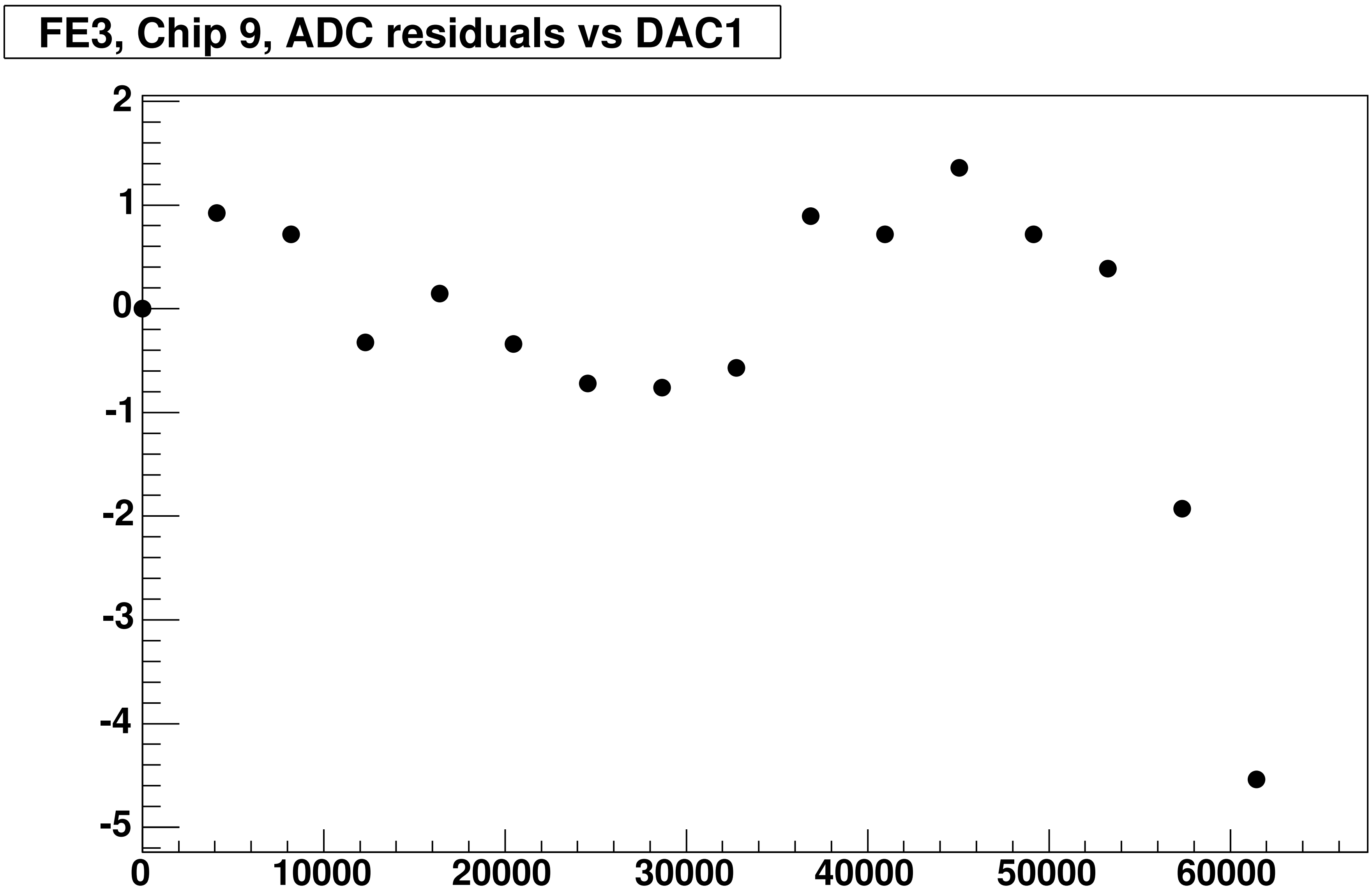

FE3, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000



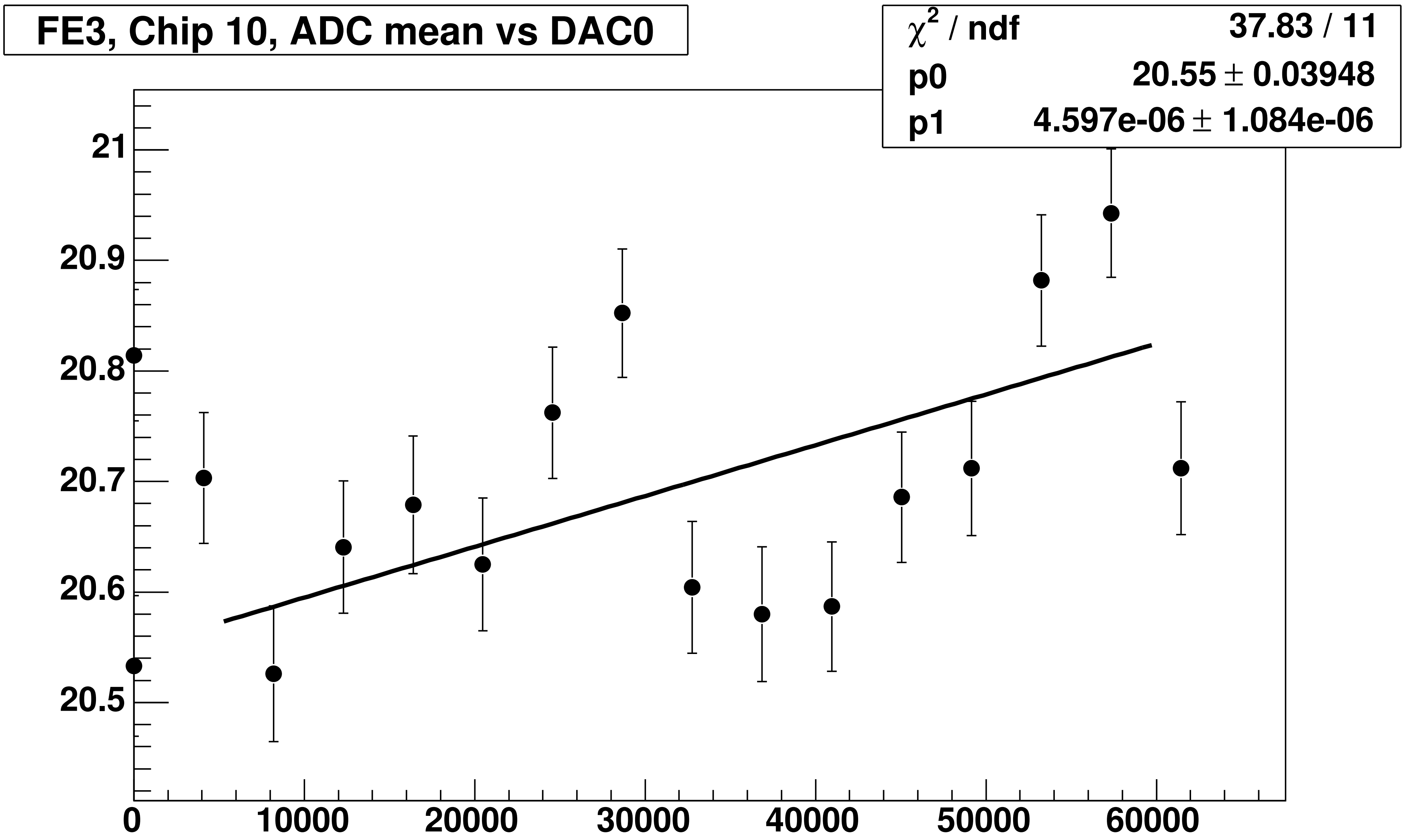
FE3, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

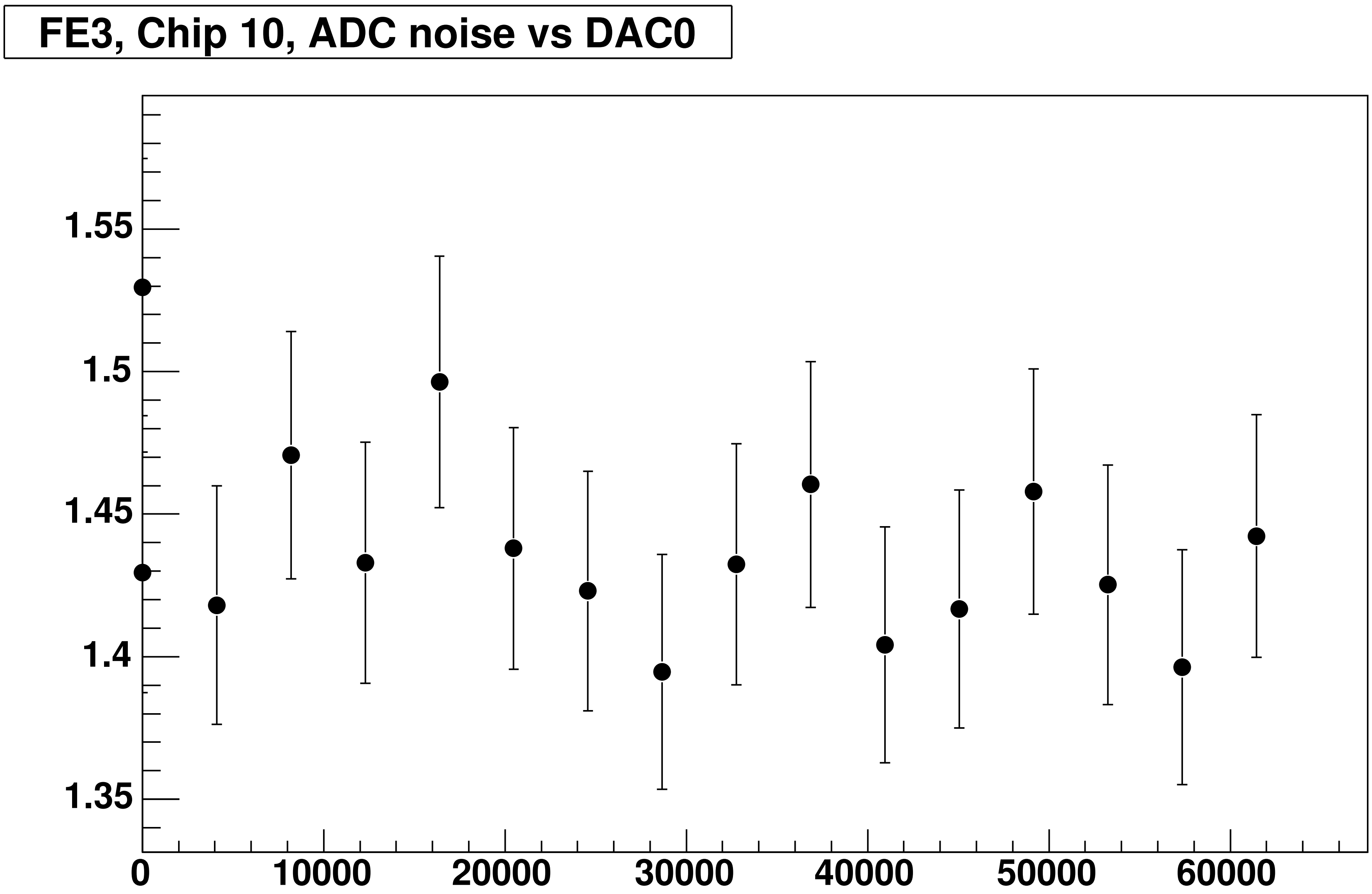

FE3, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1496 / 11
p0 28.43 ± 0.04304
p1 0.4515 ± 1.347e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

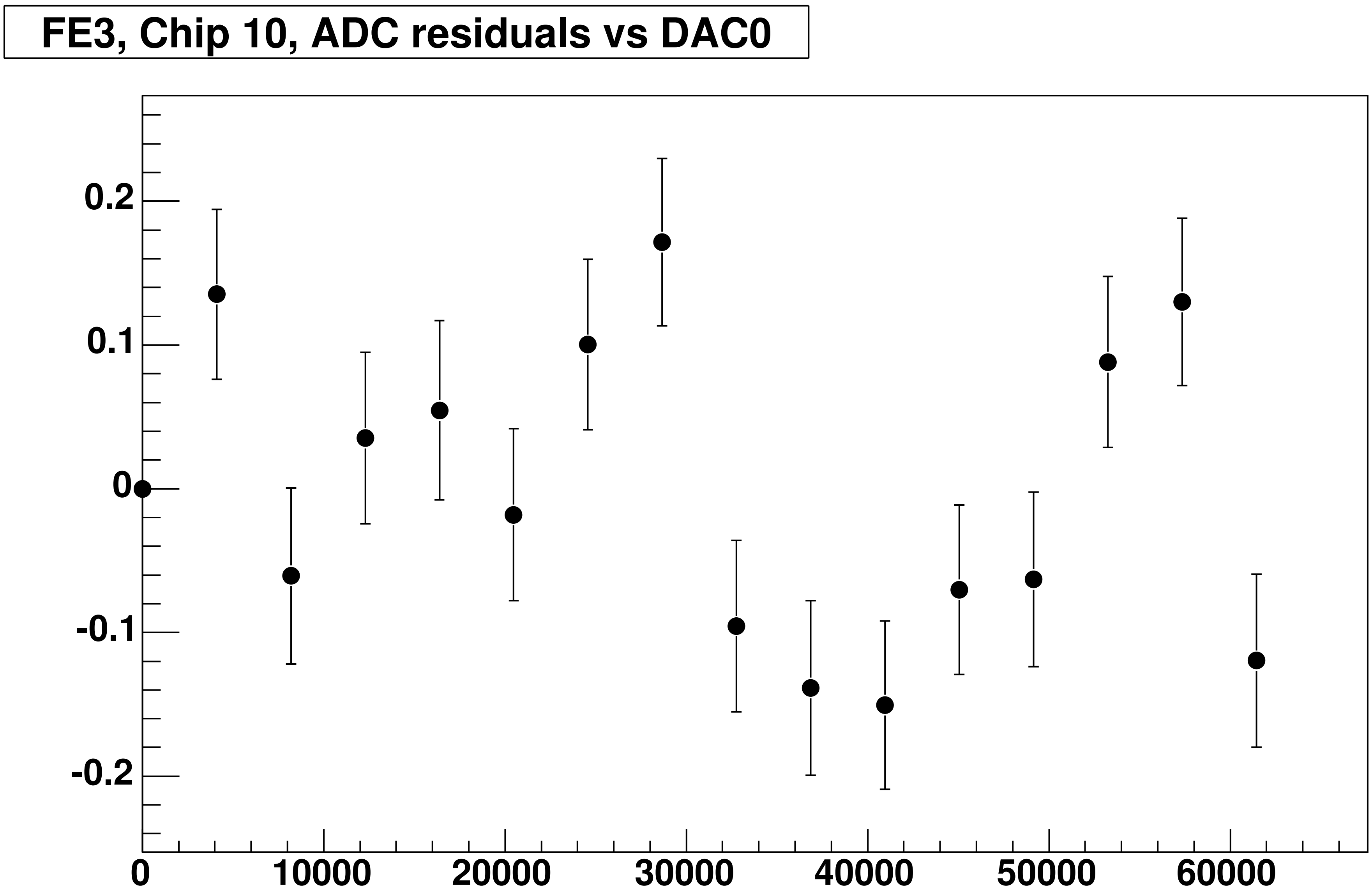

FE3, Chip 9, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

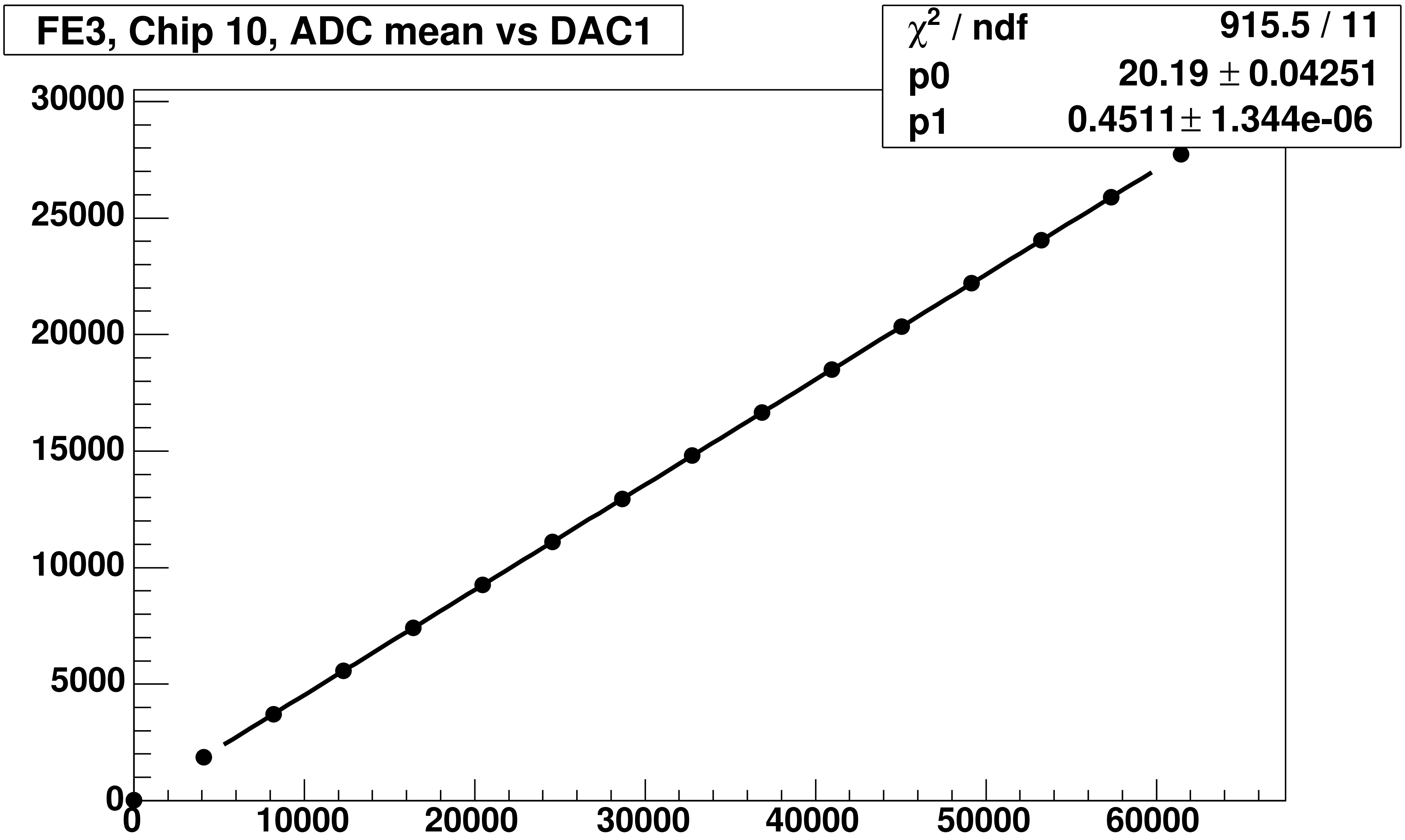


FE3, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

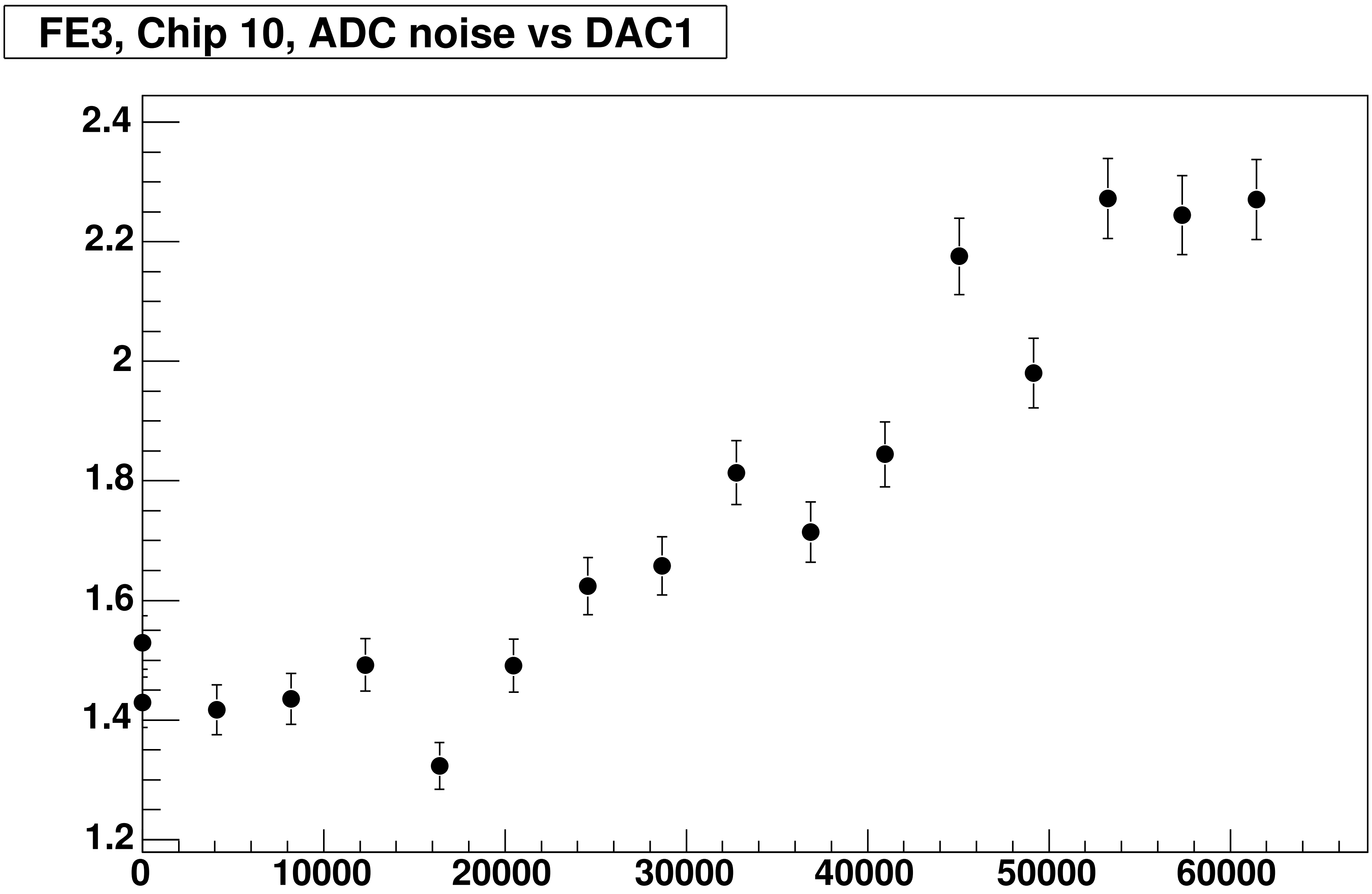

FE3, Chip 10, ADC mean vs DAC0
χ^2 / ndf 37.83 / 11
p0 20.55 ± 0.03948
p1 4.597e-06 ± 1.084e-06
21
20.9
20.8
20.7
20.6
20.5
0
10000
20000
30000
40000
50000
60000

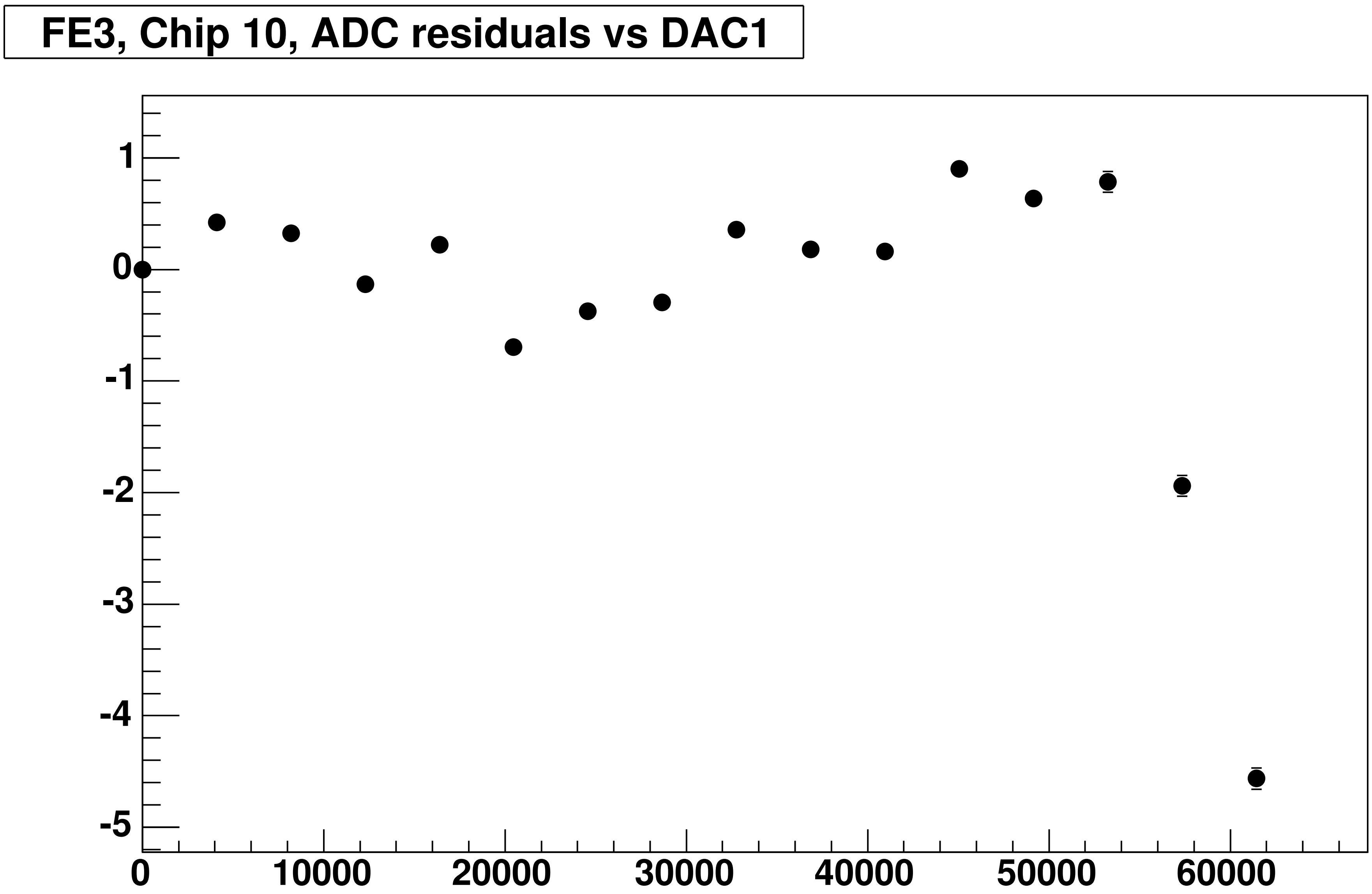

FE3, Chip 10, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

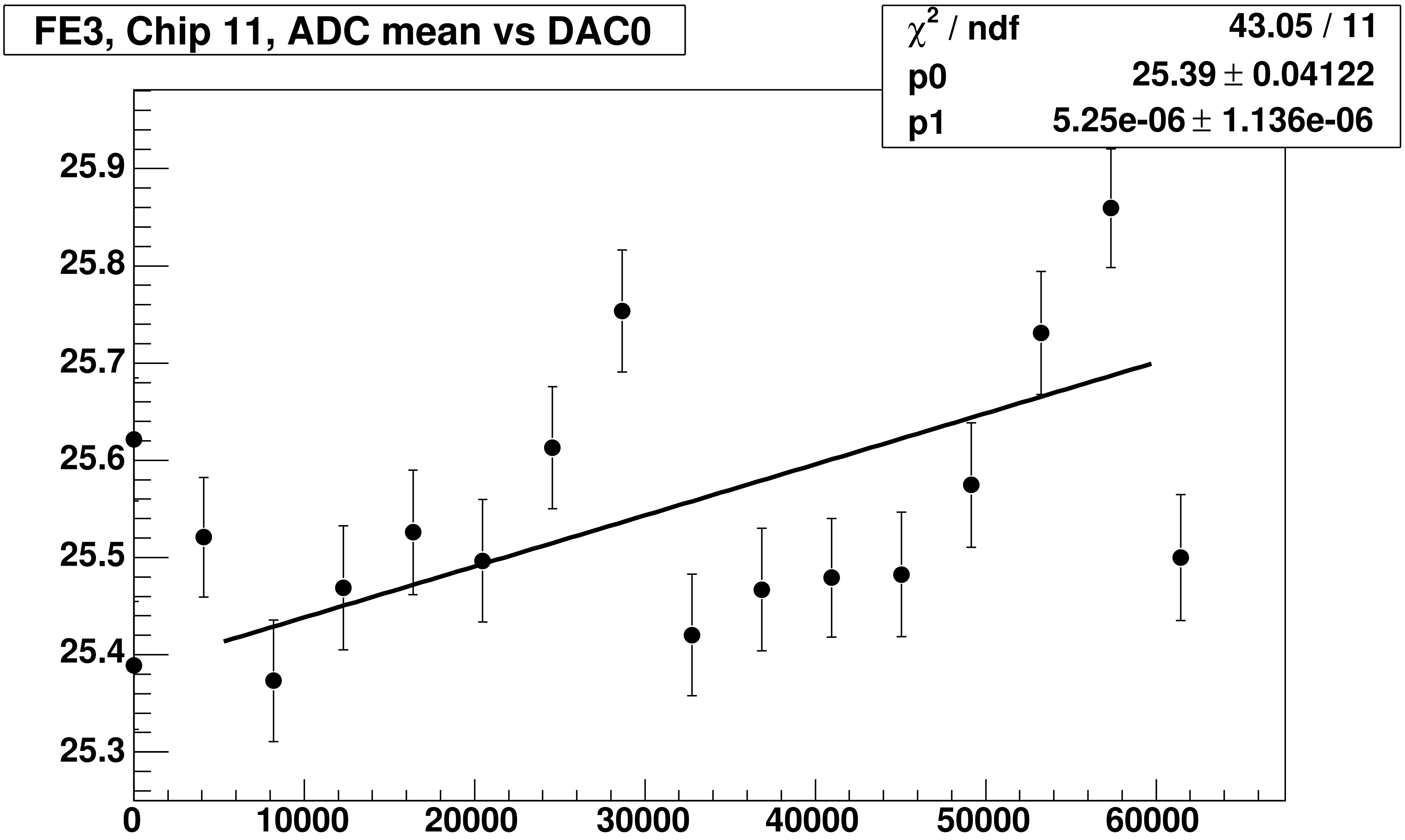

FE3, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



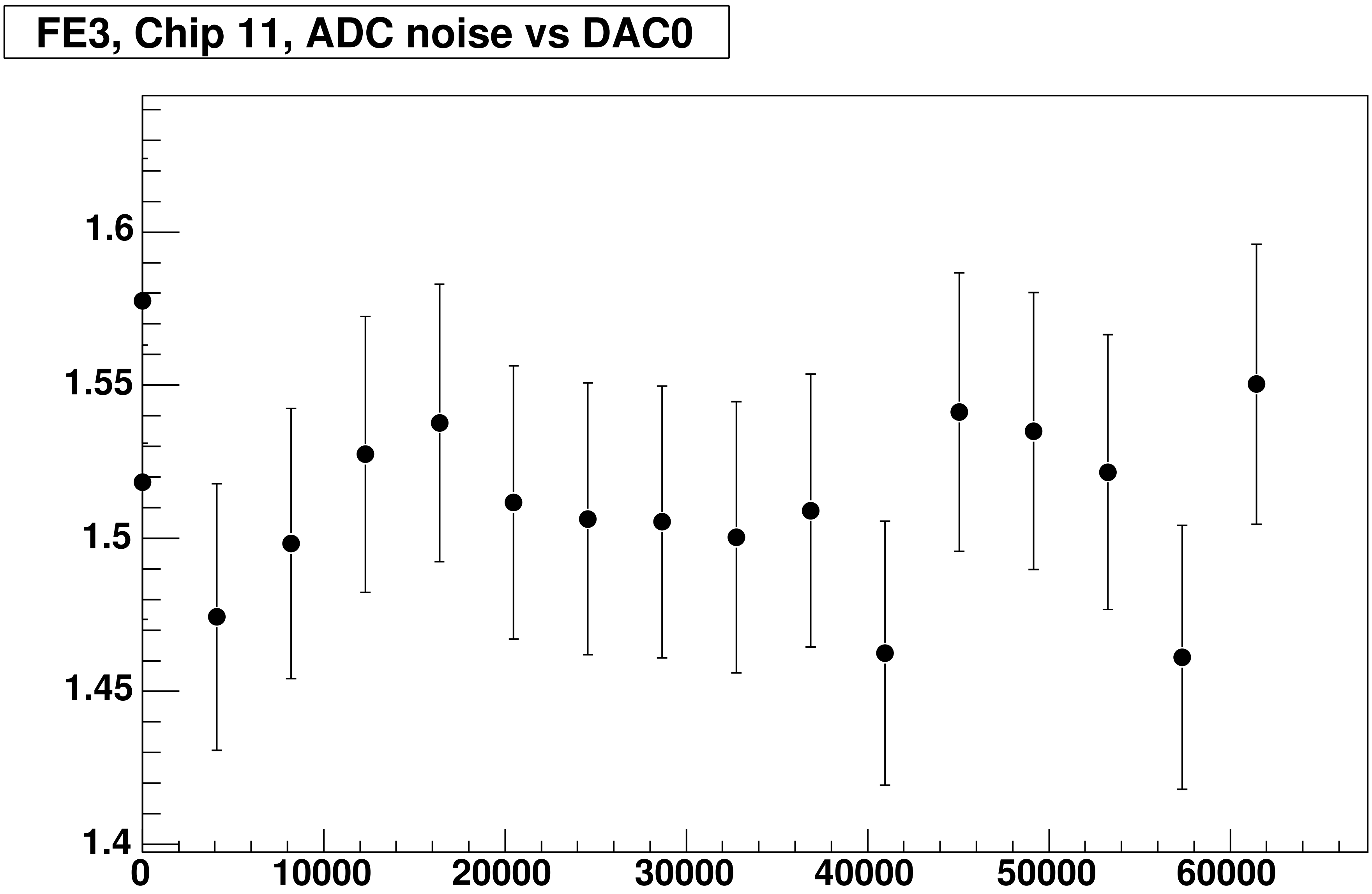
FE3, Chip 10, ADC mean vs DAC1
χ2 / ndf 915.5 / 11
p0 20.19 ± 0.04251
p1 0.4511 ± 1.344e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

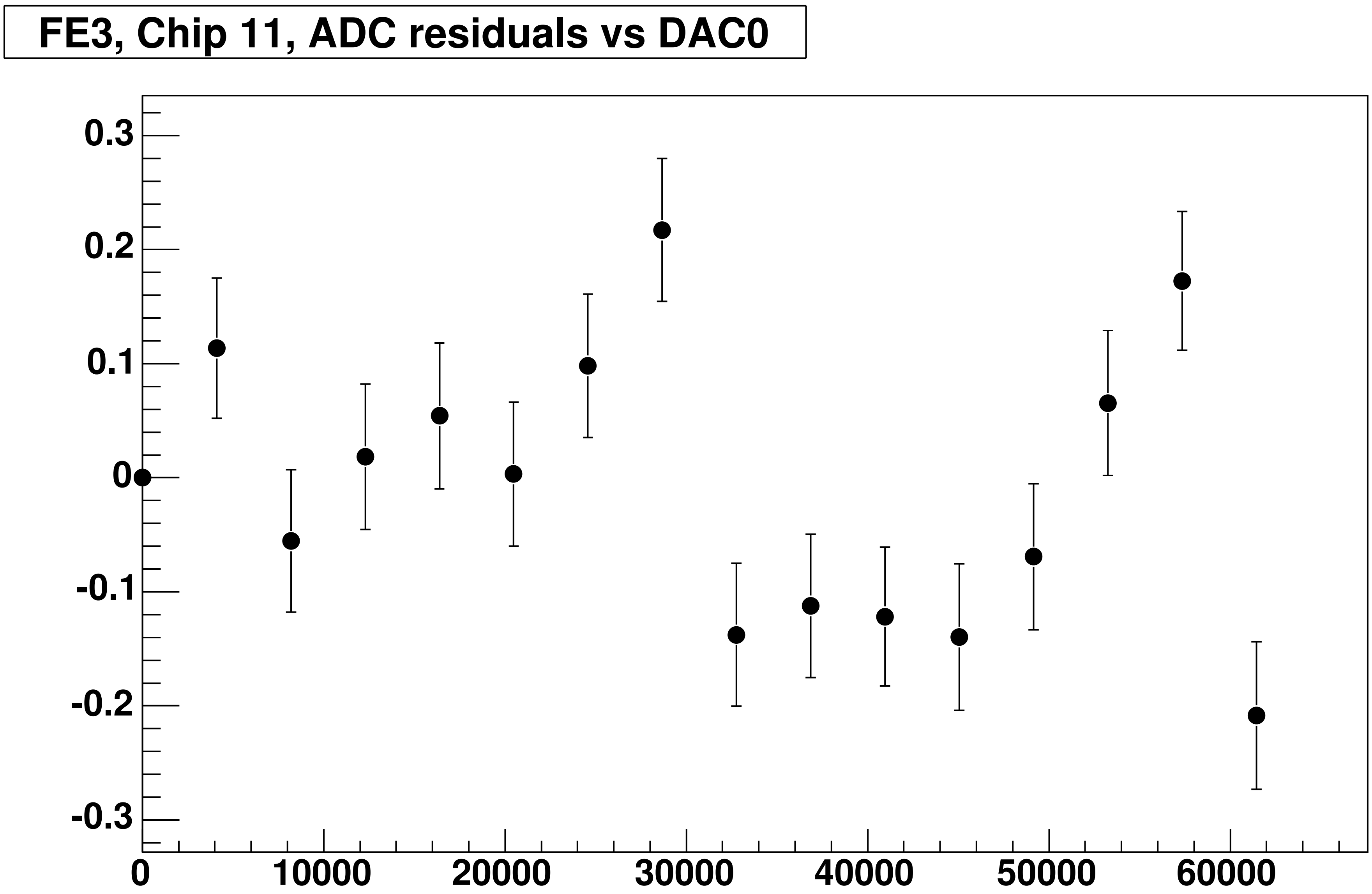

FE3, Chip 10, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

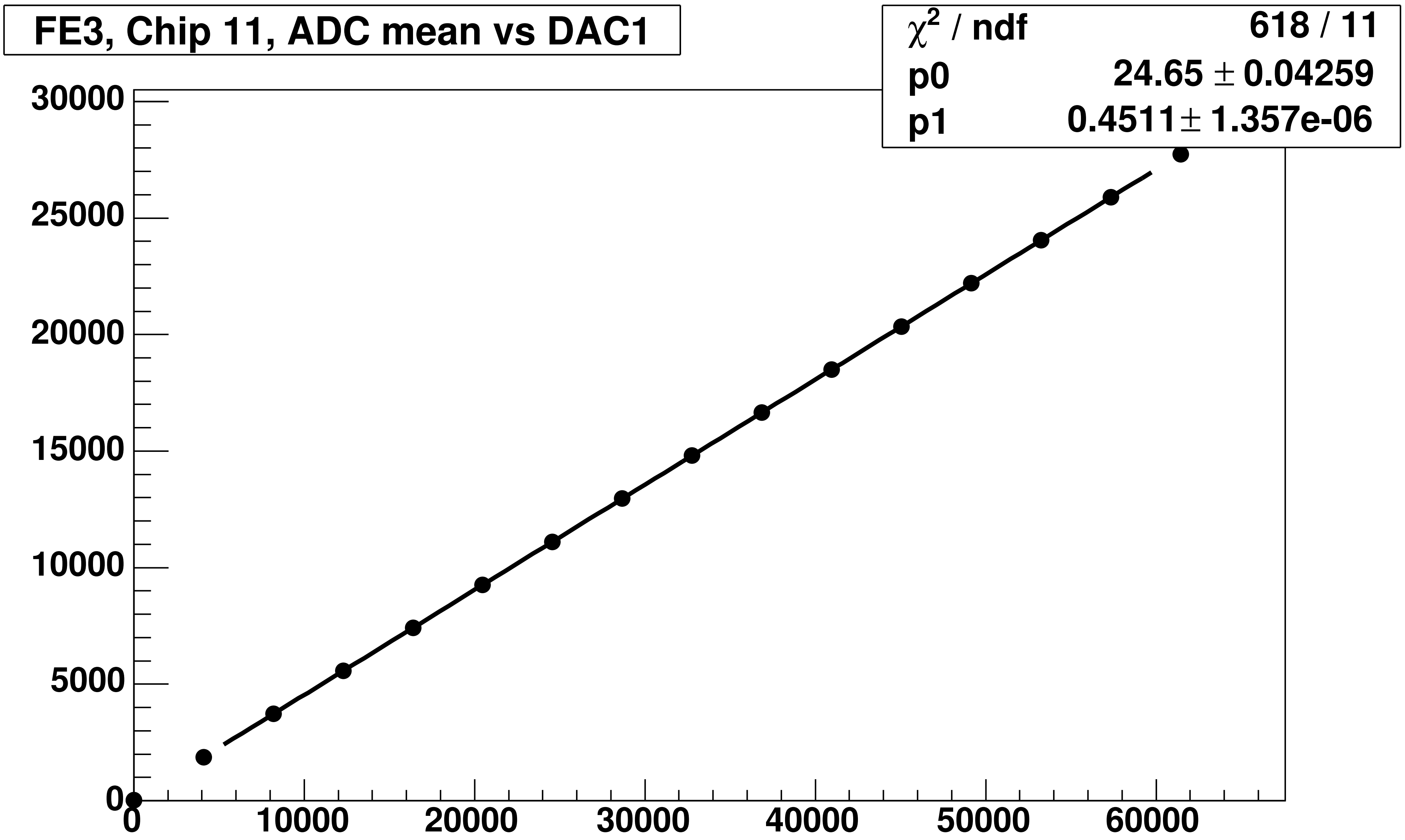

FE3, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



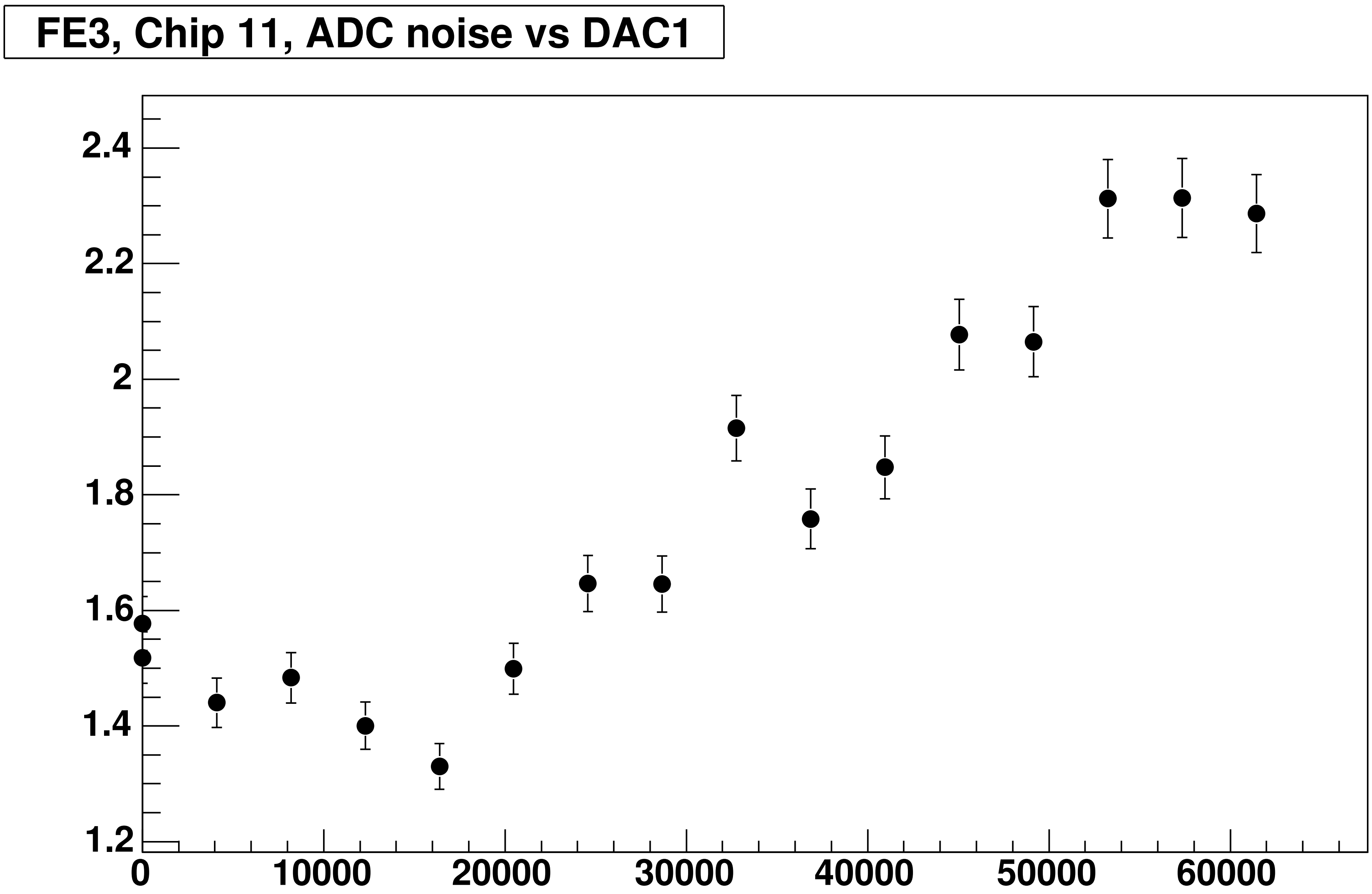
FE3, Chip 11, ADC mean vs DAC0
χ^2 / ndf 43.05 / 11
p0 25.39 ± 0.04122
p1 5.25e-06 ± 1.136e-06
25.9
25.8
25.7
25.6
25.5
25.4
25.3
0
10000
20000
30000
40000
50000
60000

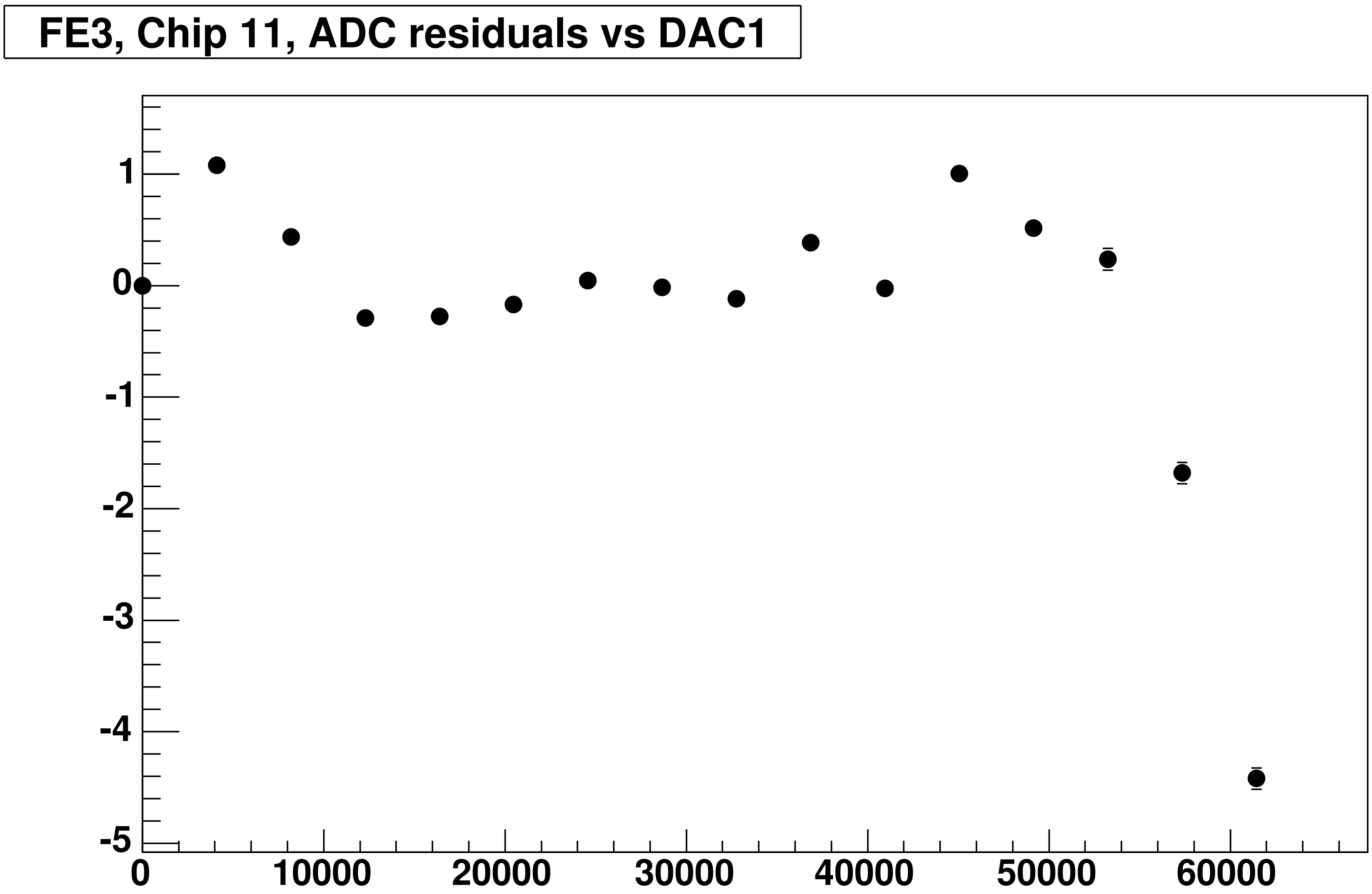

FE3, Chip 11, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

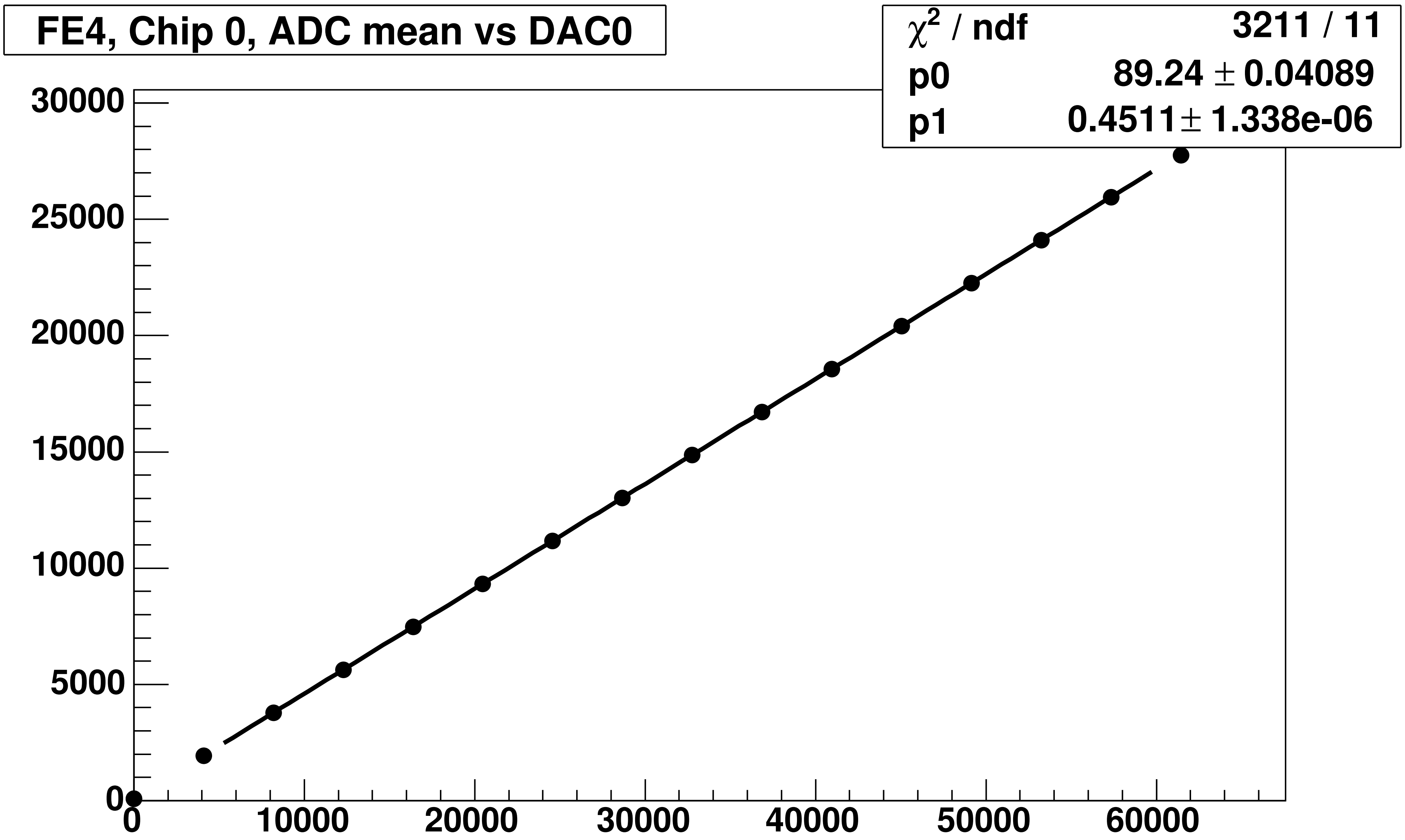

FE3, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



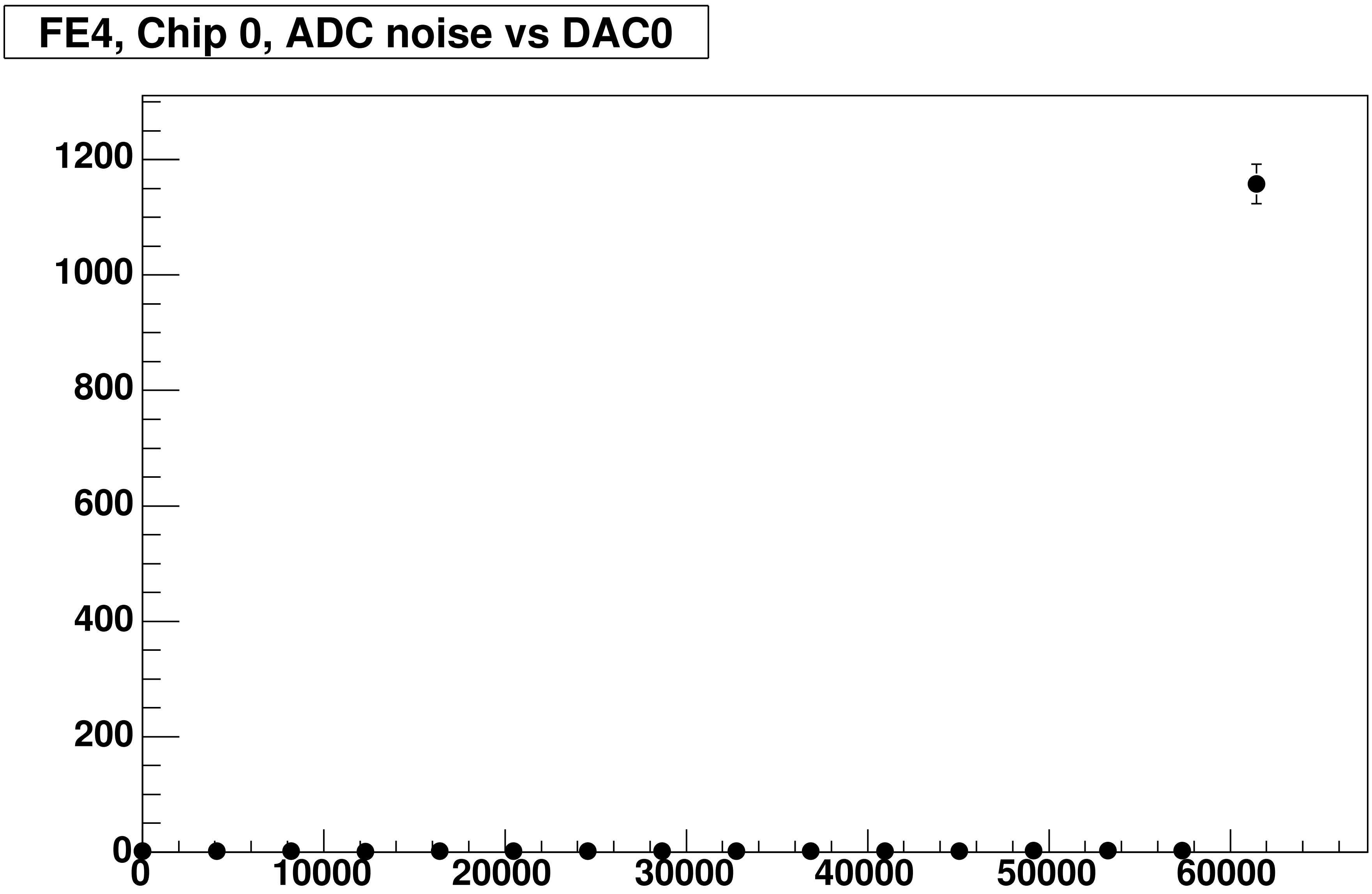
FE3, Chip 11, ADC mean vs DAC1
χ2 / ndf 618 / 11
p0 24.65 ± 0.04259
p1 0.4511 ± 1.357e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

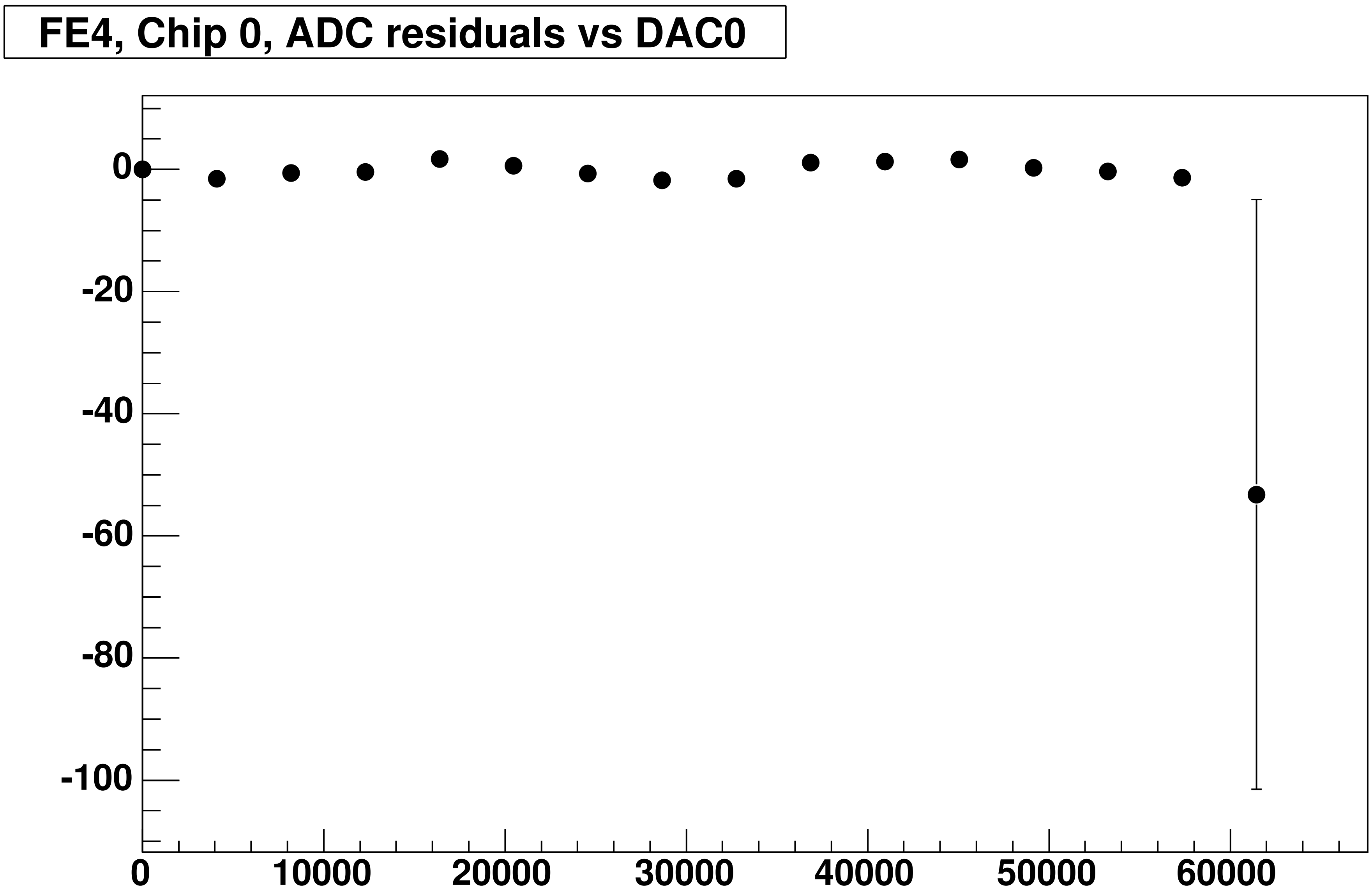

FE3, Chip 11, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

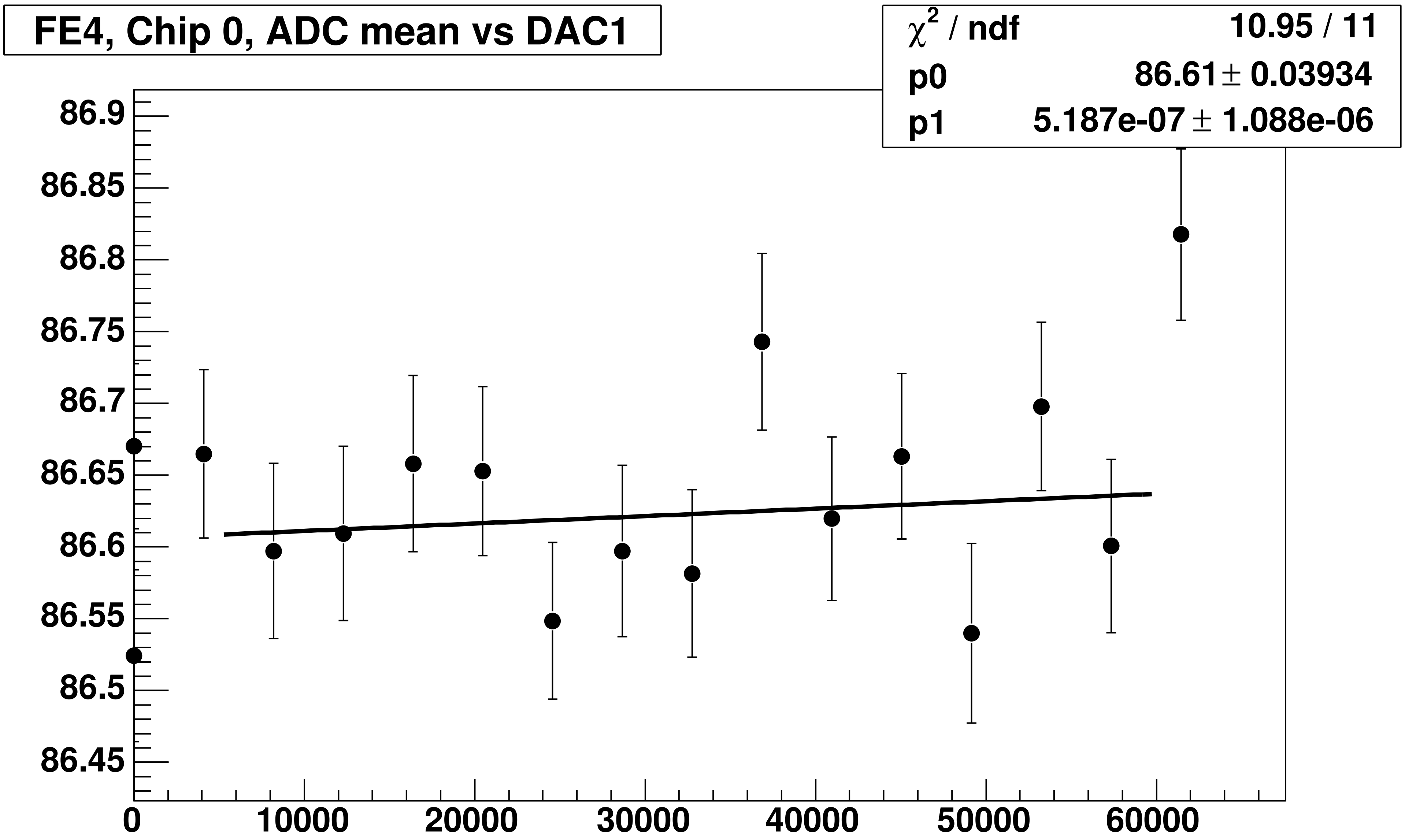

FE3, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



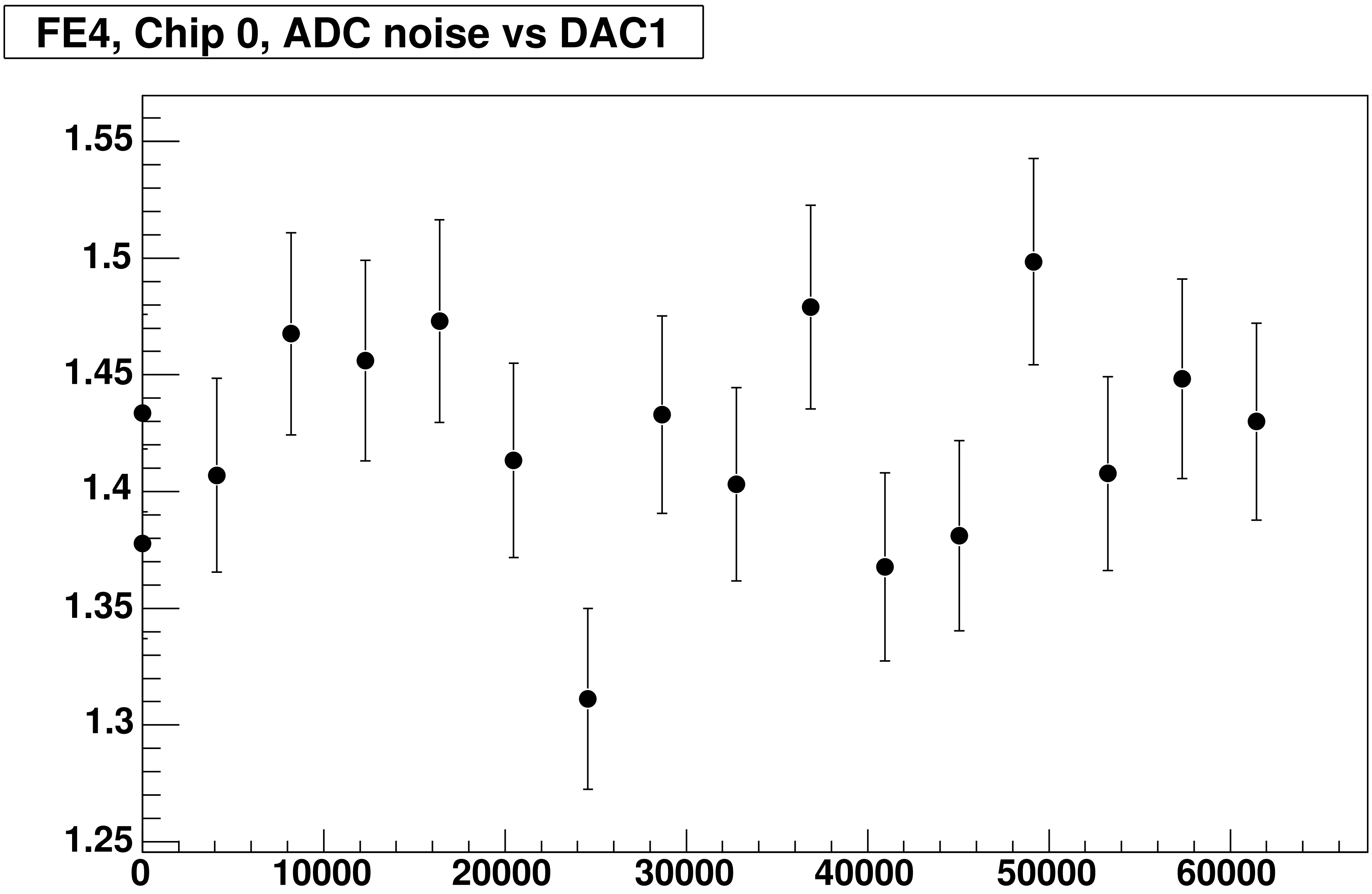
FE4, Chip 0, ADC mean vs DAC0
χ^2 / ndf 3211 / 11
p0 89.24 ± 0.04089
p1 0.4511 ± 1.338e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

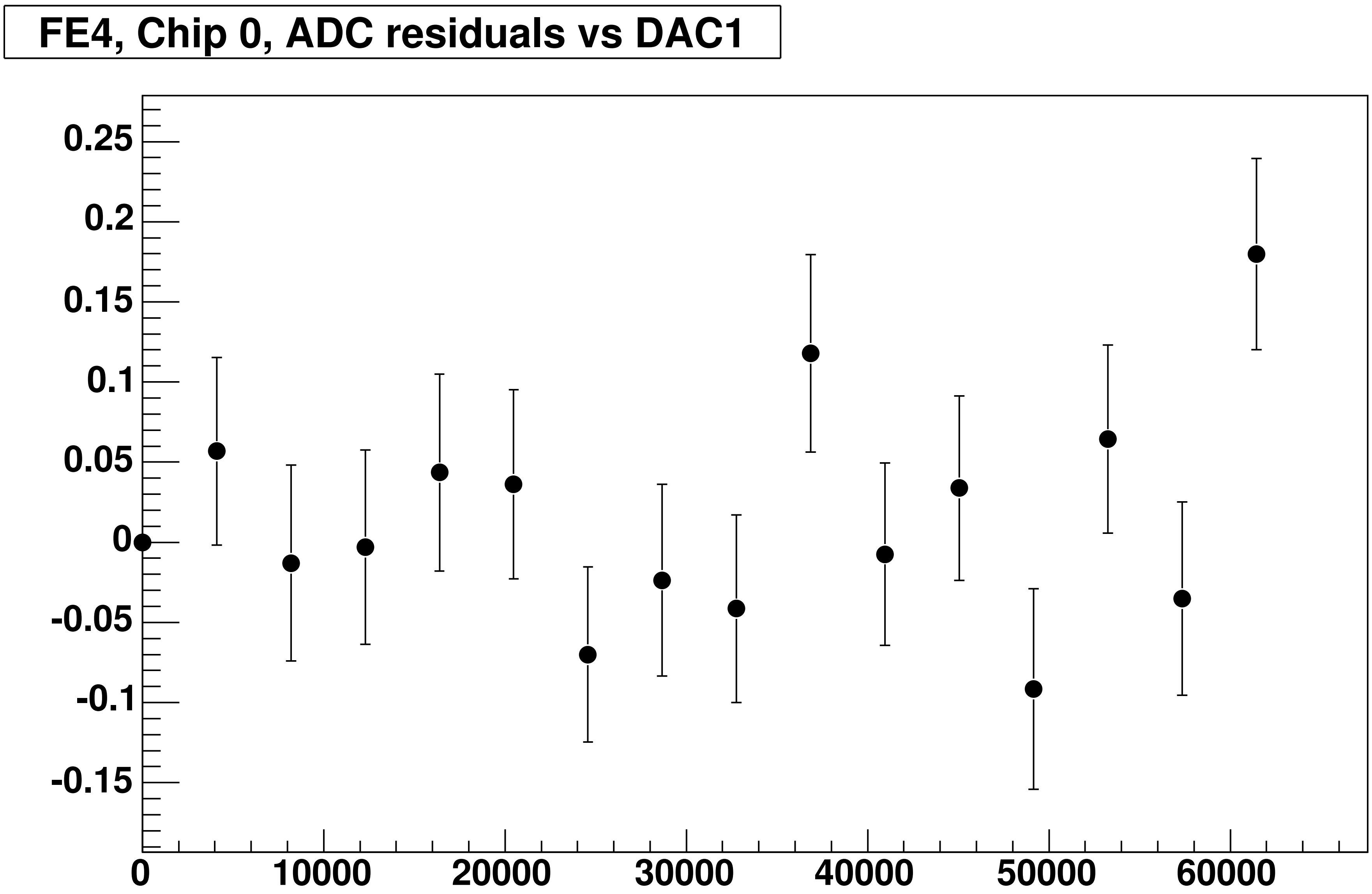

FE4, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



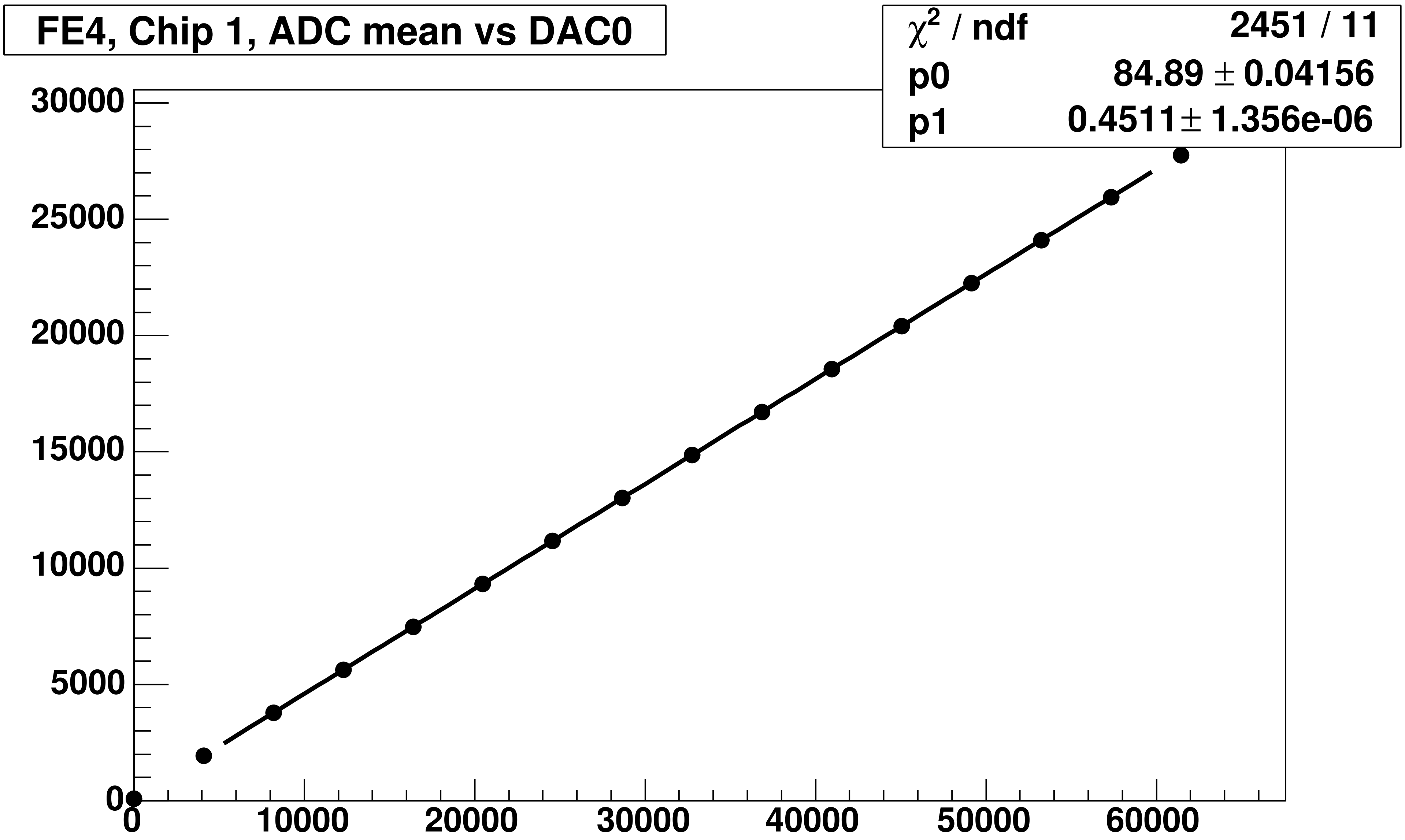
FE4, Chip 0, ADC mean vs DAC1
χ^2 / ndf 10.95 / 11
p0 86.61 ± 0.03934
p1 5.187e-07 ± 1.088e-06
86.9
86.85
86.8
86.75
86.7
86.65
86.6
86.55
86.5
86.45
0
10000
20000
30000
40000
50000
60000



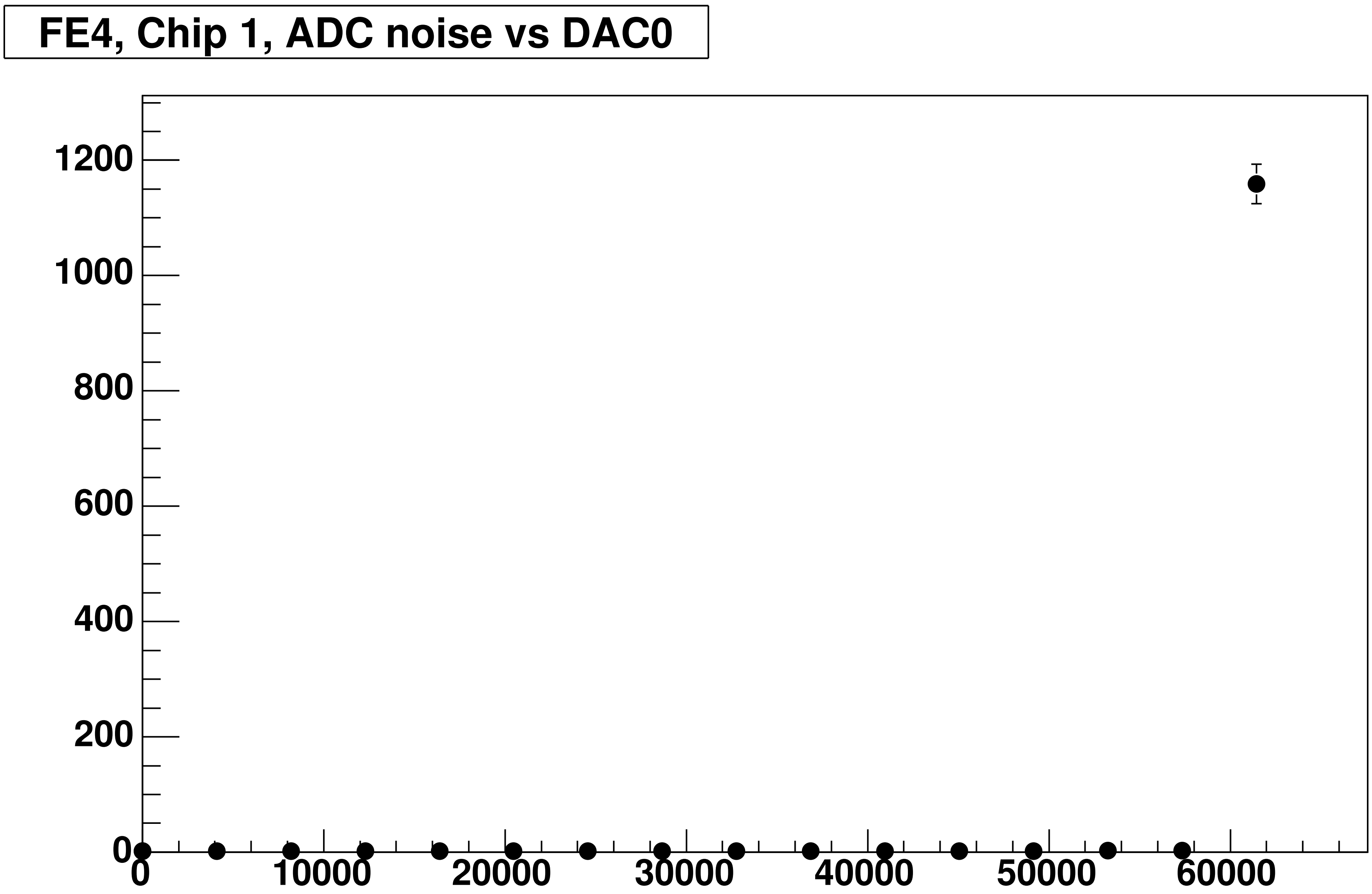
FE4, Chip 0, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000

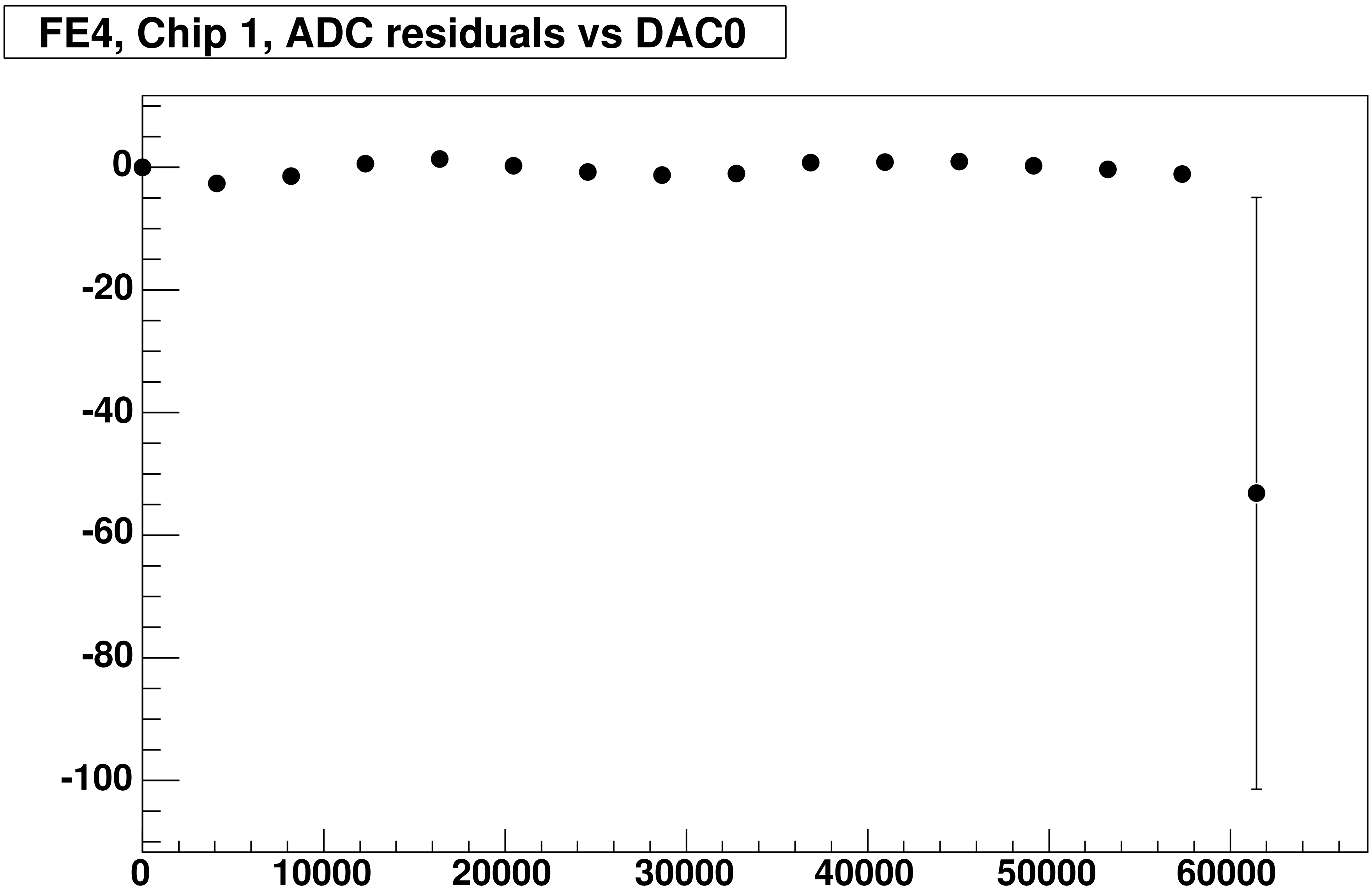


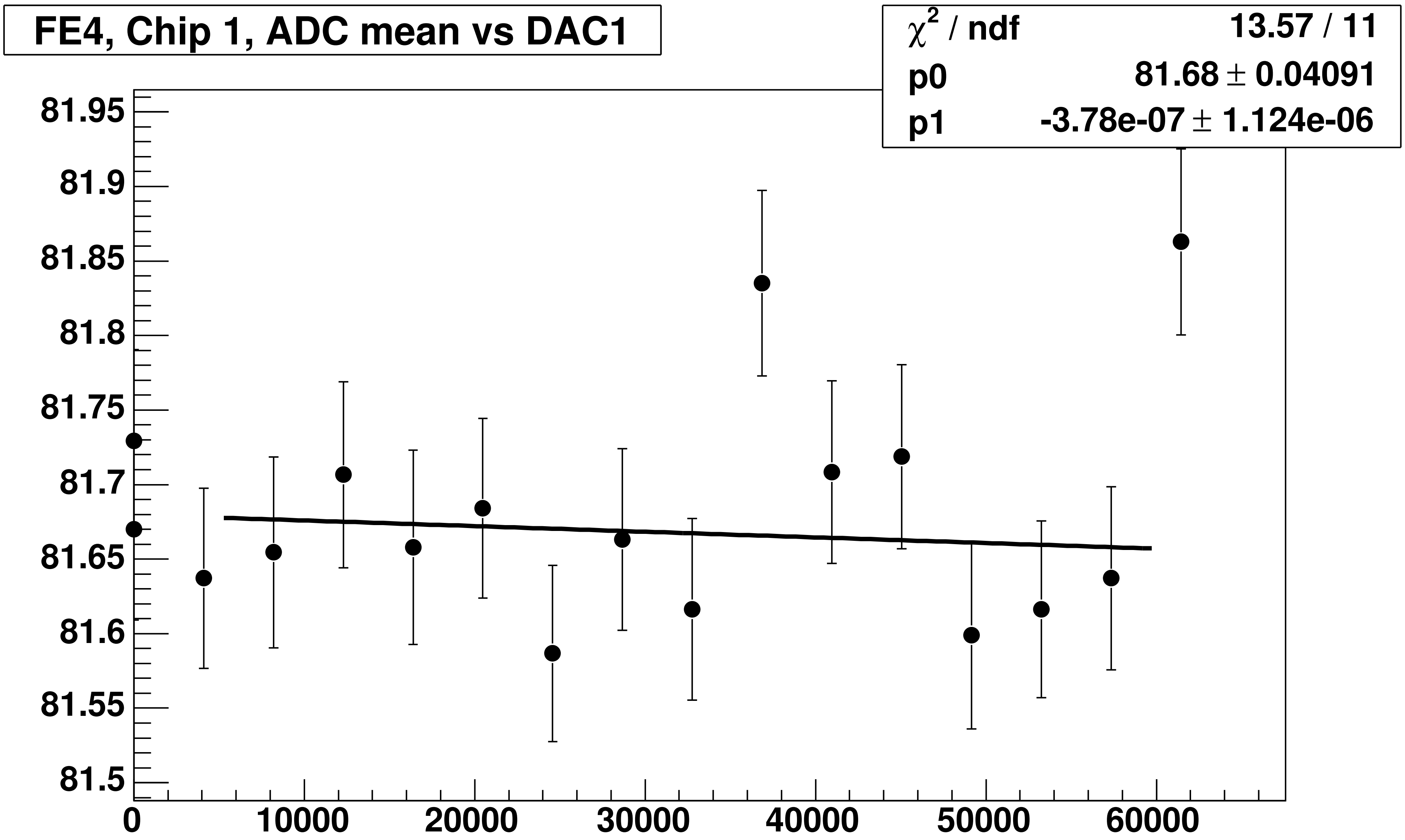
FE4, Chip 0, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

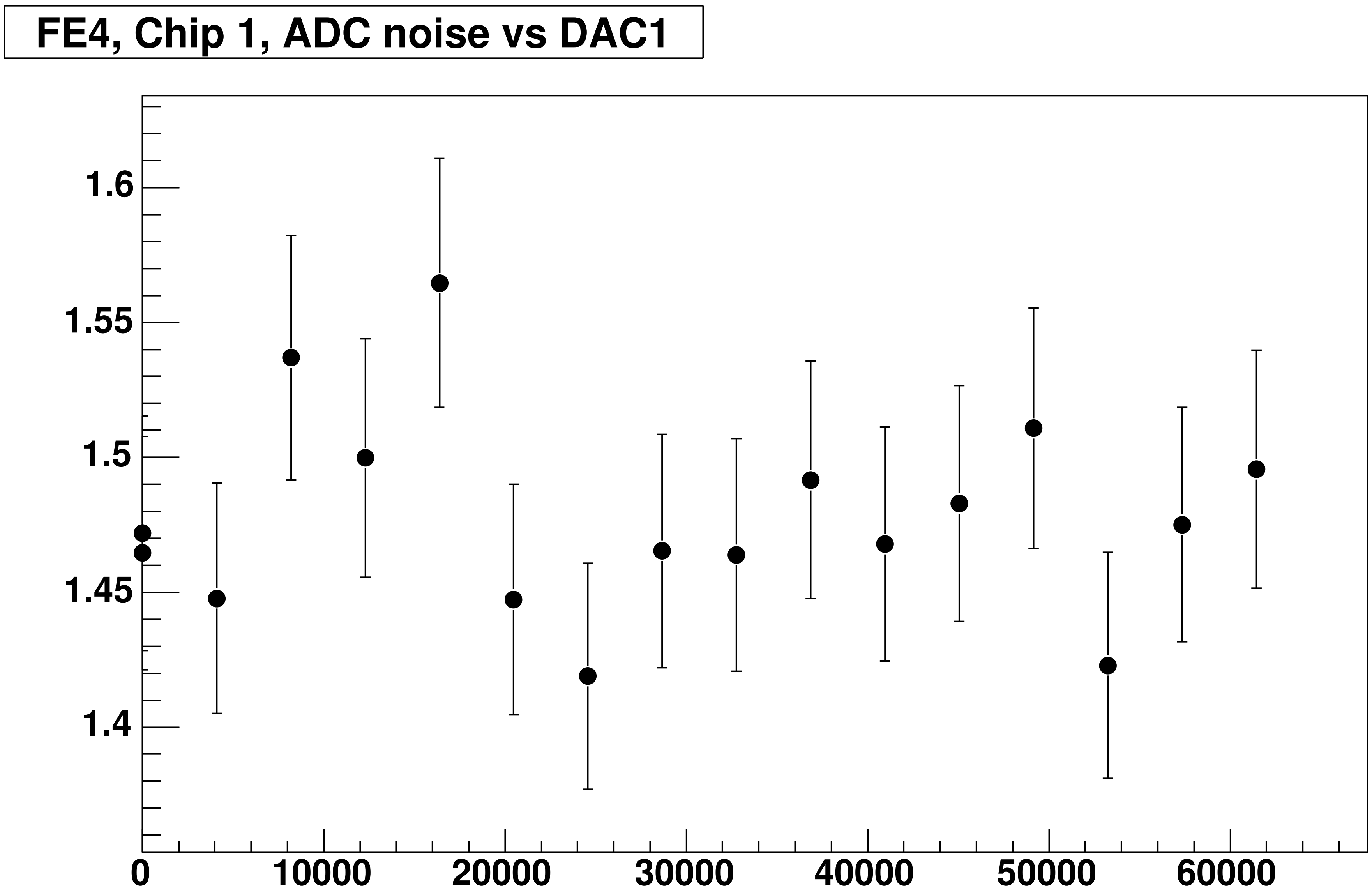


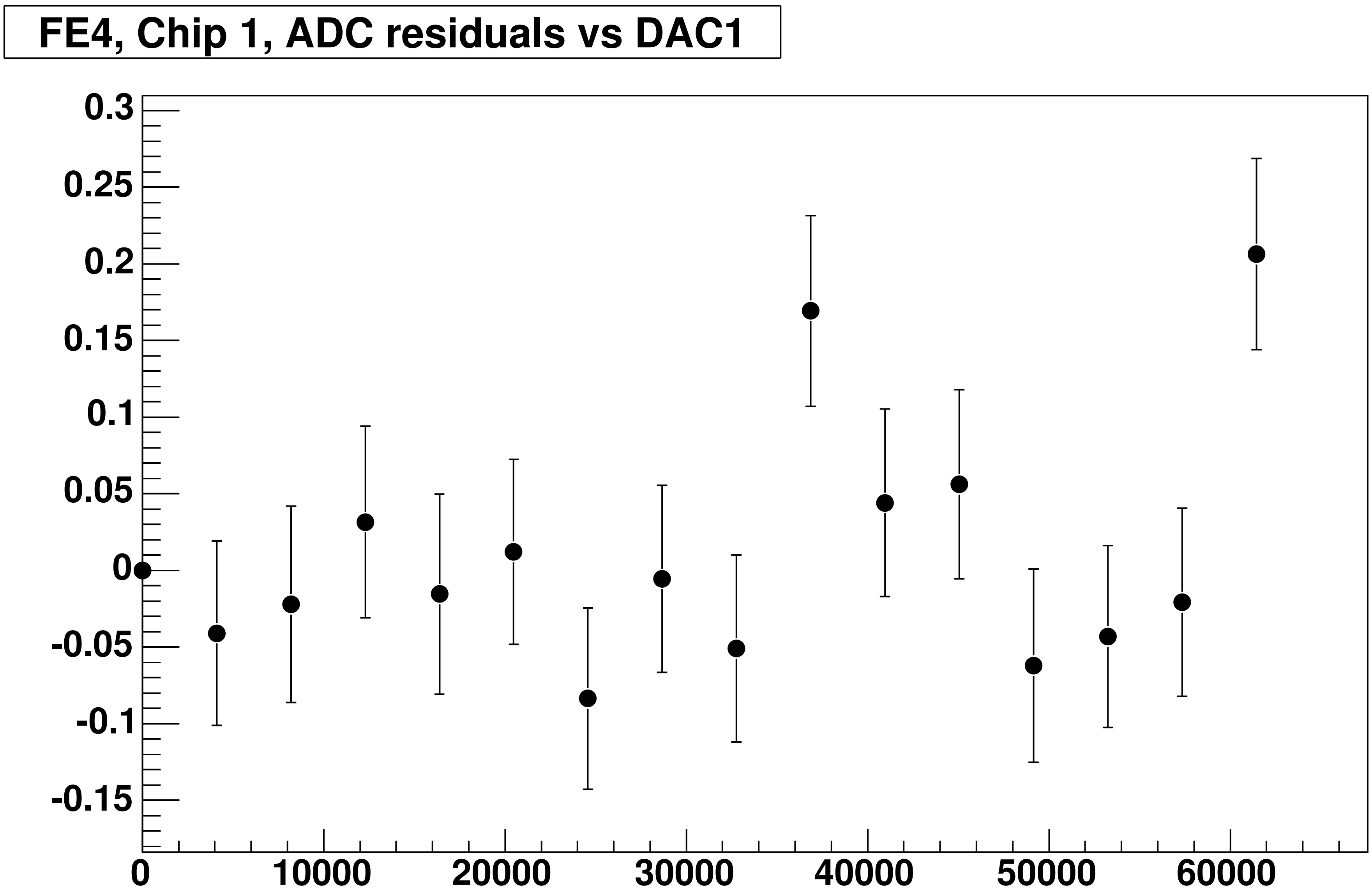
FE4, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2451 / 11
p0 84.89 ± 0.04156
p1 0.4511 ± 1.356e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

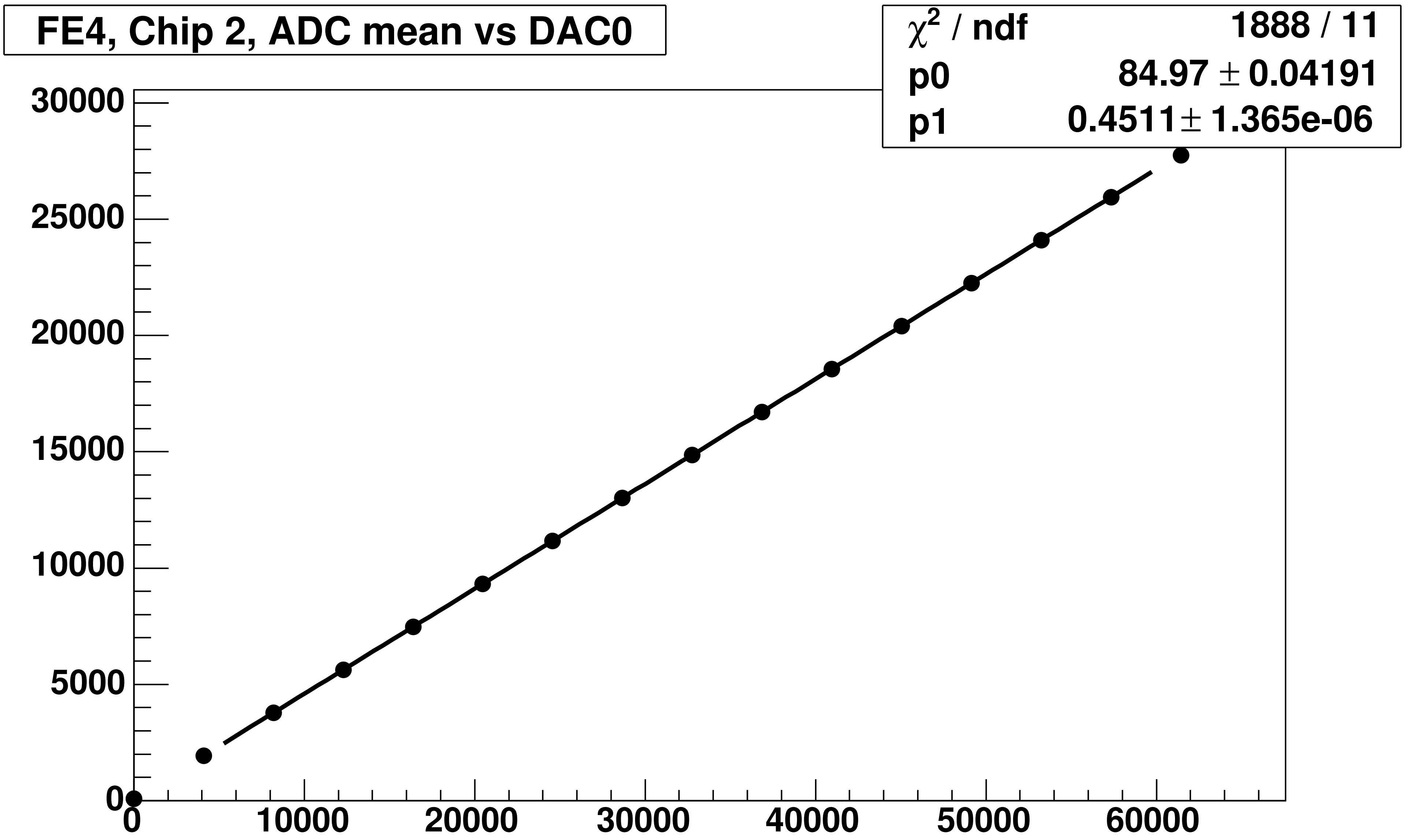

FE4, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

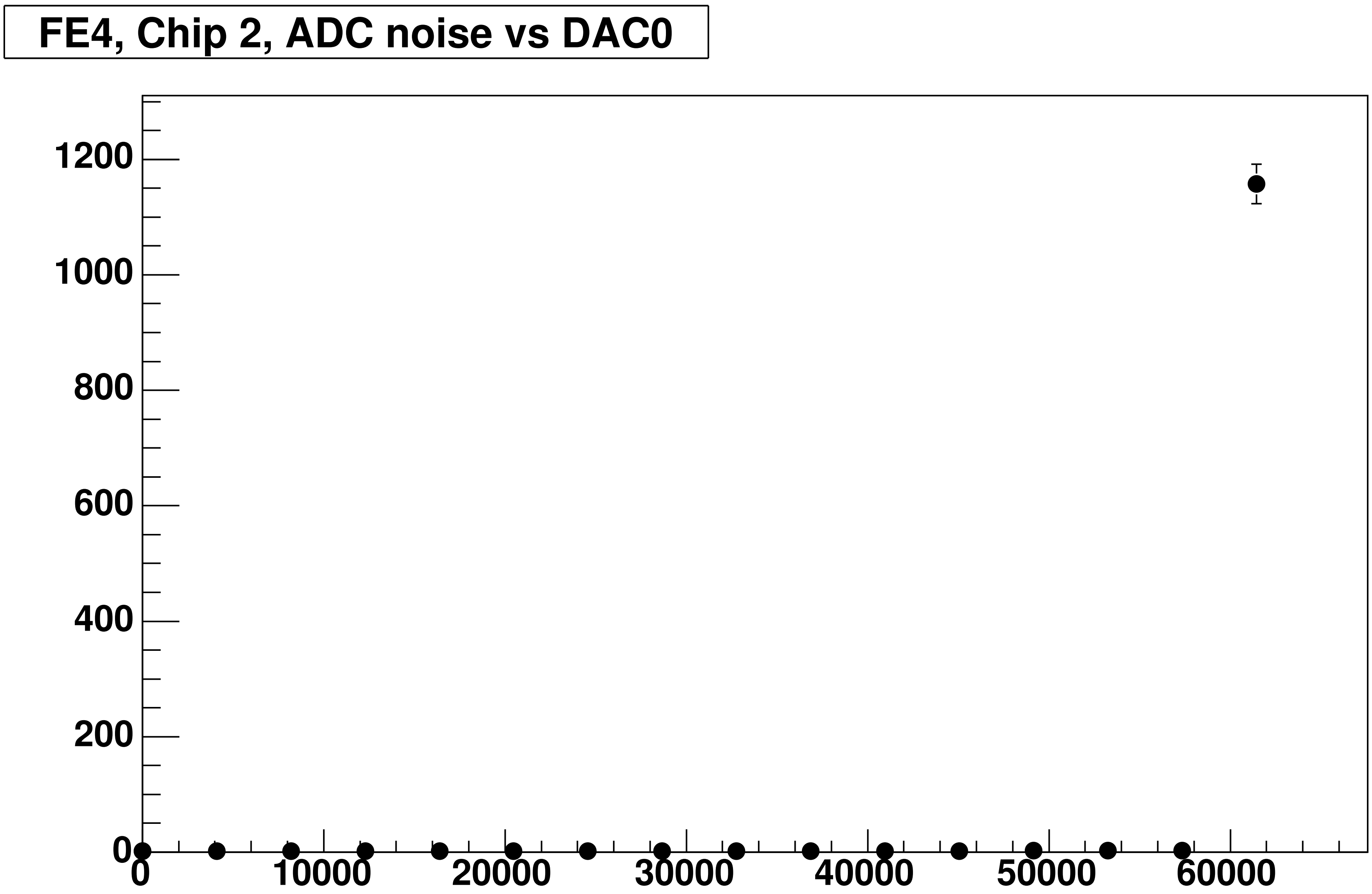

FE4, Chip 1, ADC mean vs DAC1
χ² / ndf 13.57 / 11
p0 81.68 ± 0.04091
p1 -3.78e-07 ± 1.124e-06
81.95
81.9
81.85
81.8
81.75
81.7
81.65
81.6
81.55
81.5
0
10000
20000
30000
40000
50000
60000

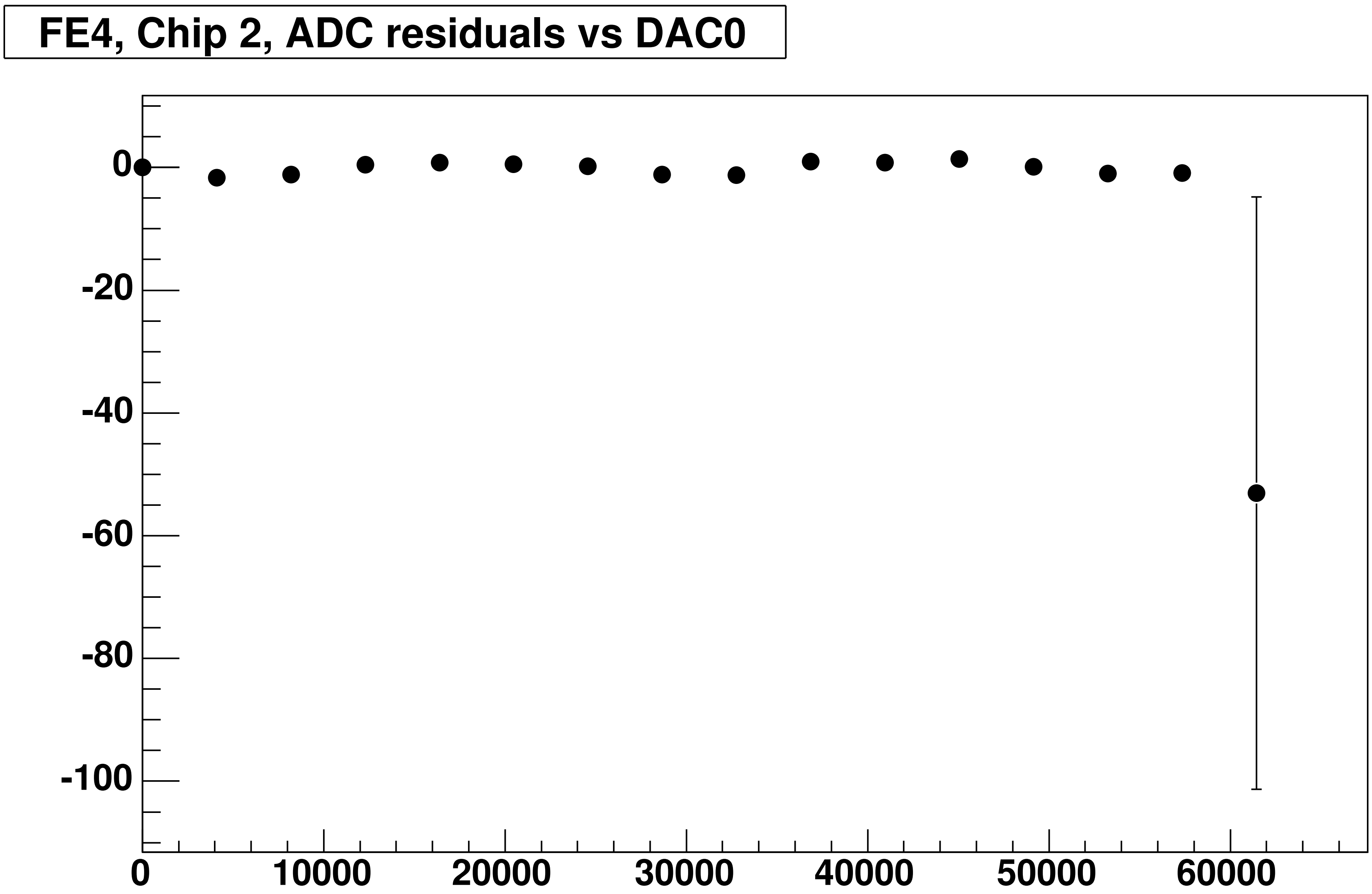

FE4, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


FE4, Chip 1, ADC residuals vs DAC1
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

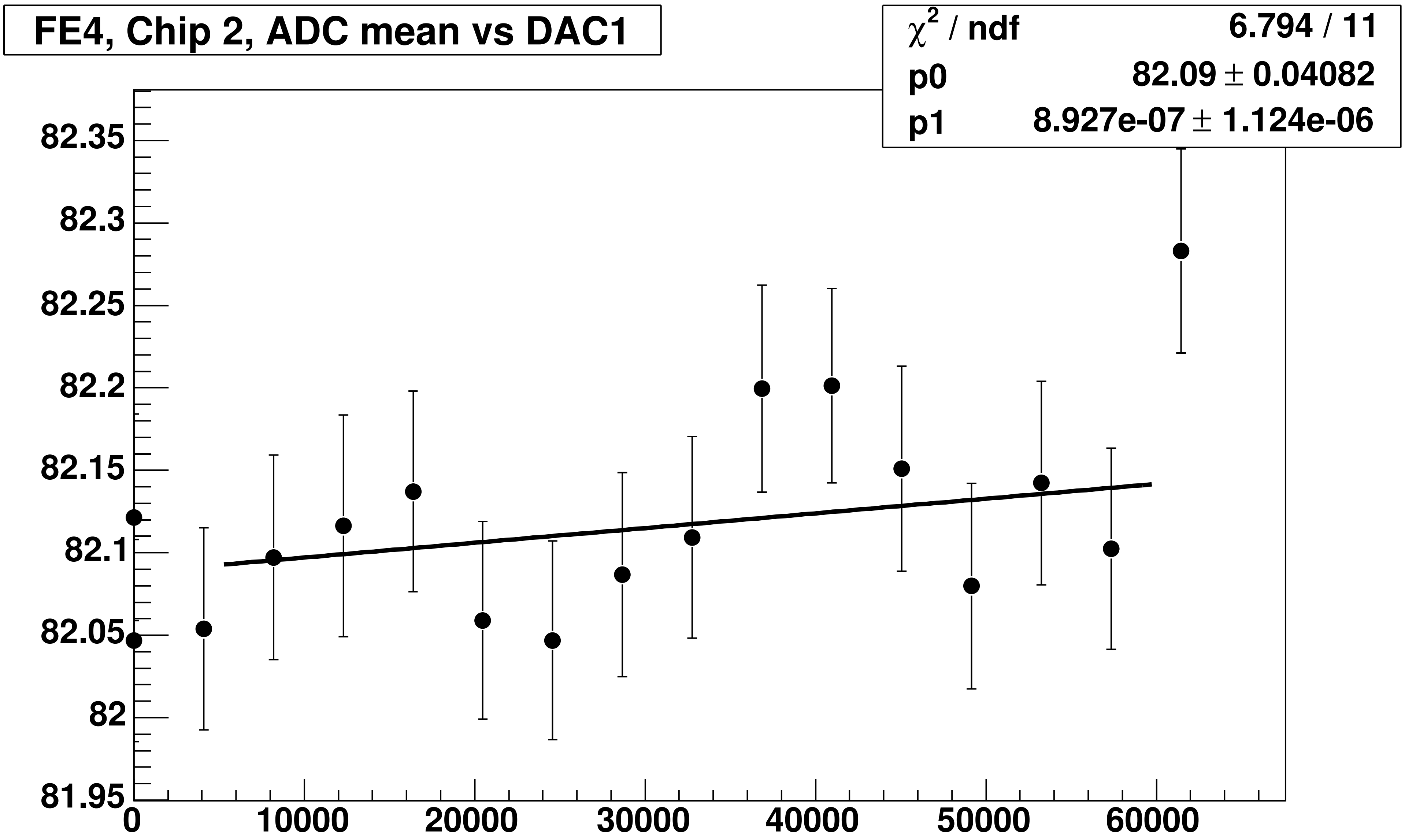


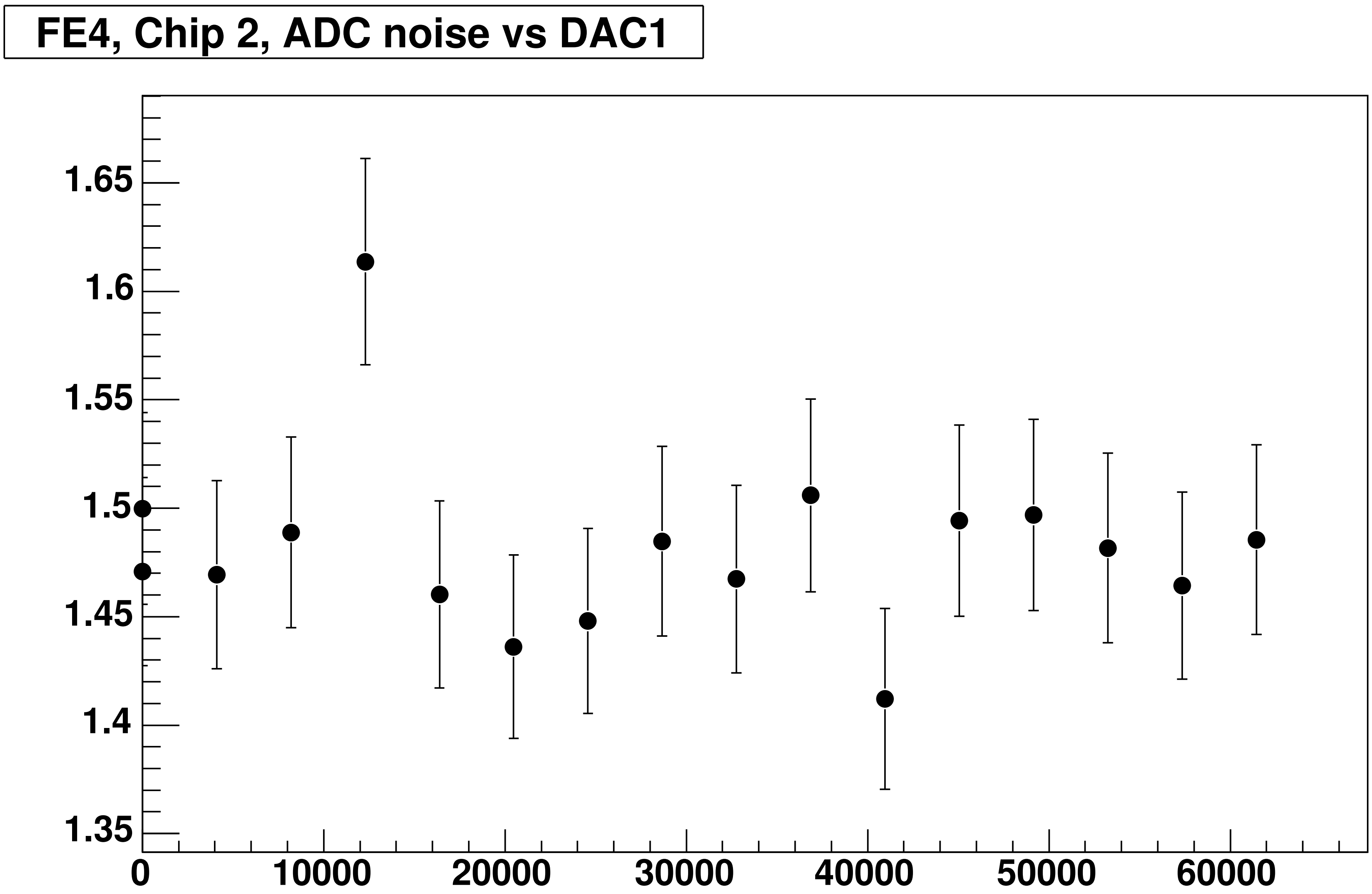
FE4, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1888 / 11
p0 84.97 ± 0.04191
p1 0.4511 ± 1.365e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

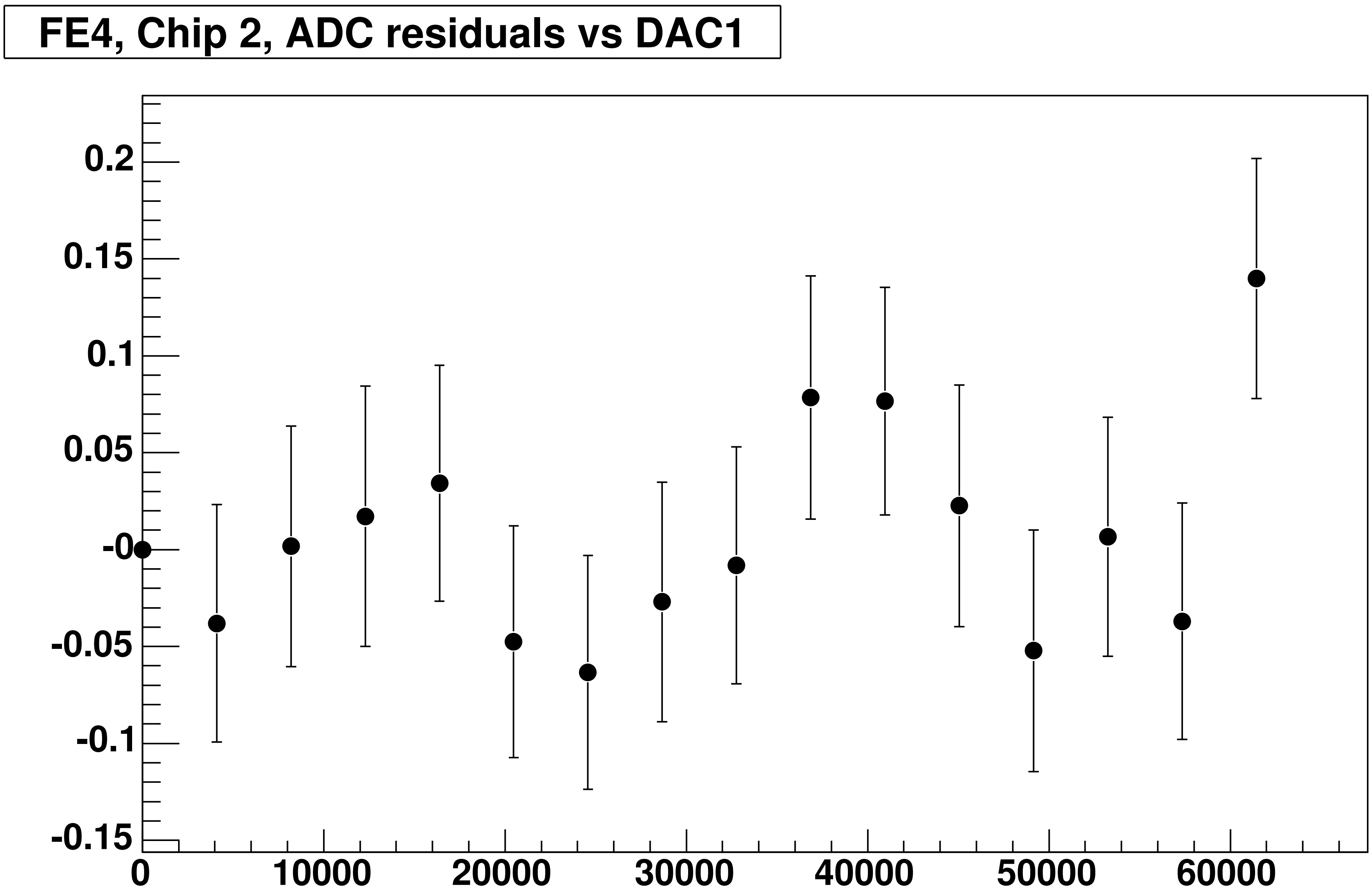

FE4, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



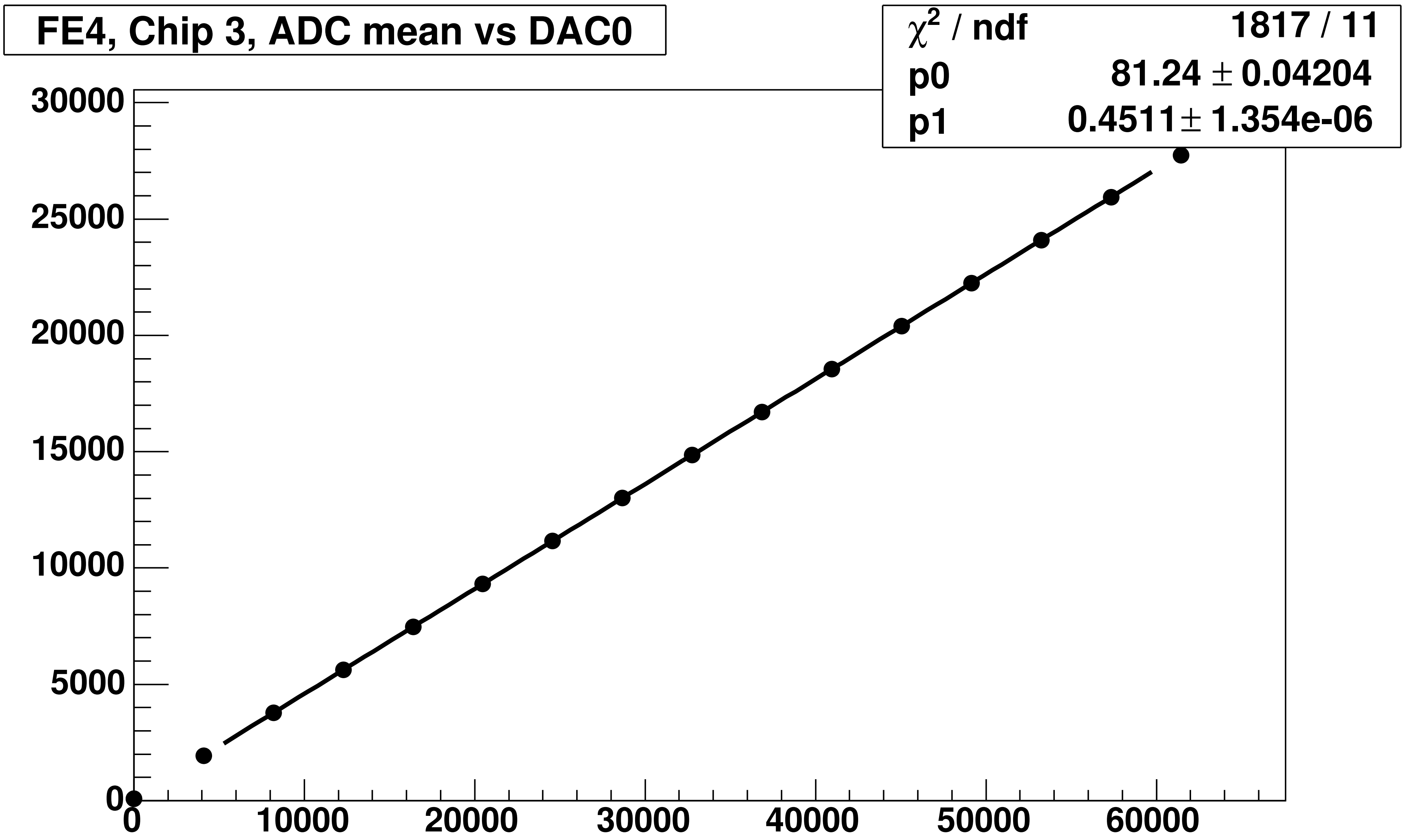
FE4, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

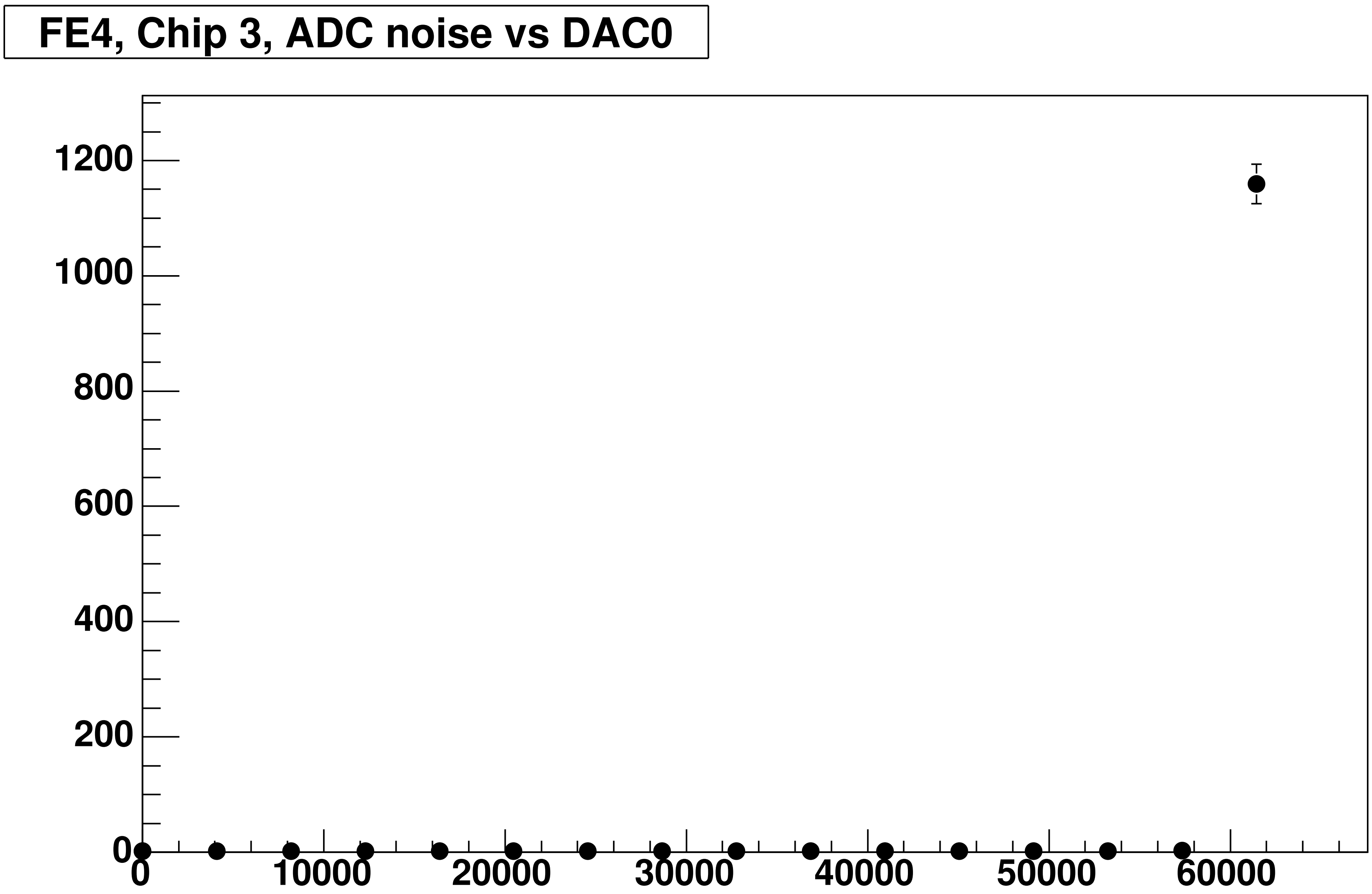

FE4, Chip 2, ADC mean vs DAC1
χ^2 / ndf 6.794 / 11
p0 82.09 ± 0.04082
p1 8.927e-07 ± 1.124e-06
82.35
82.3
82.25
82.2
82.15
82.1
82.05
82
81.95
0
10000
20000
30000
40000
50000
60000

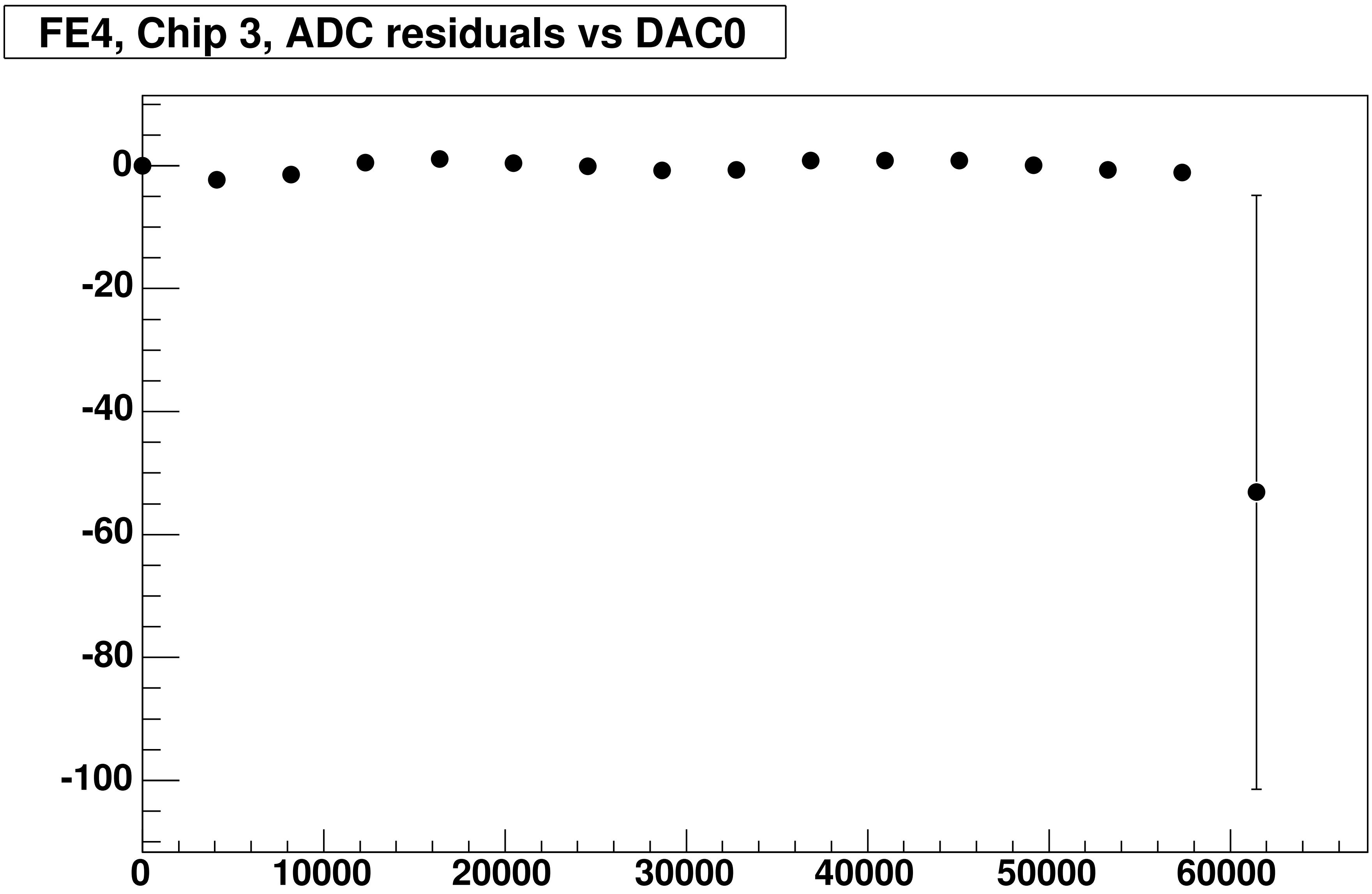

FE4, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

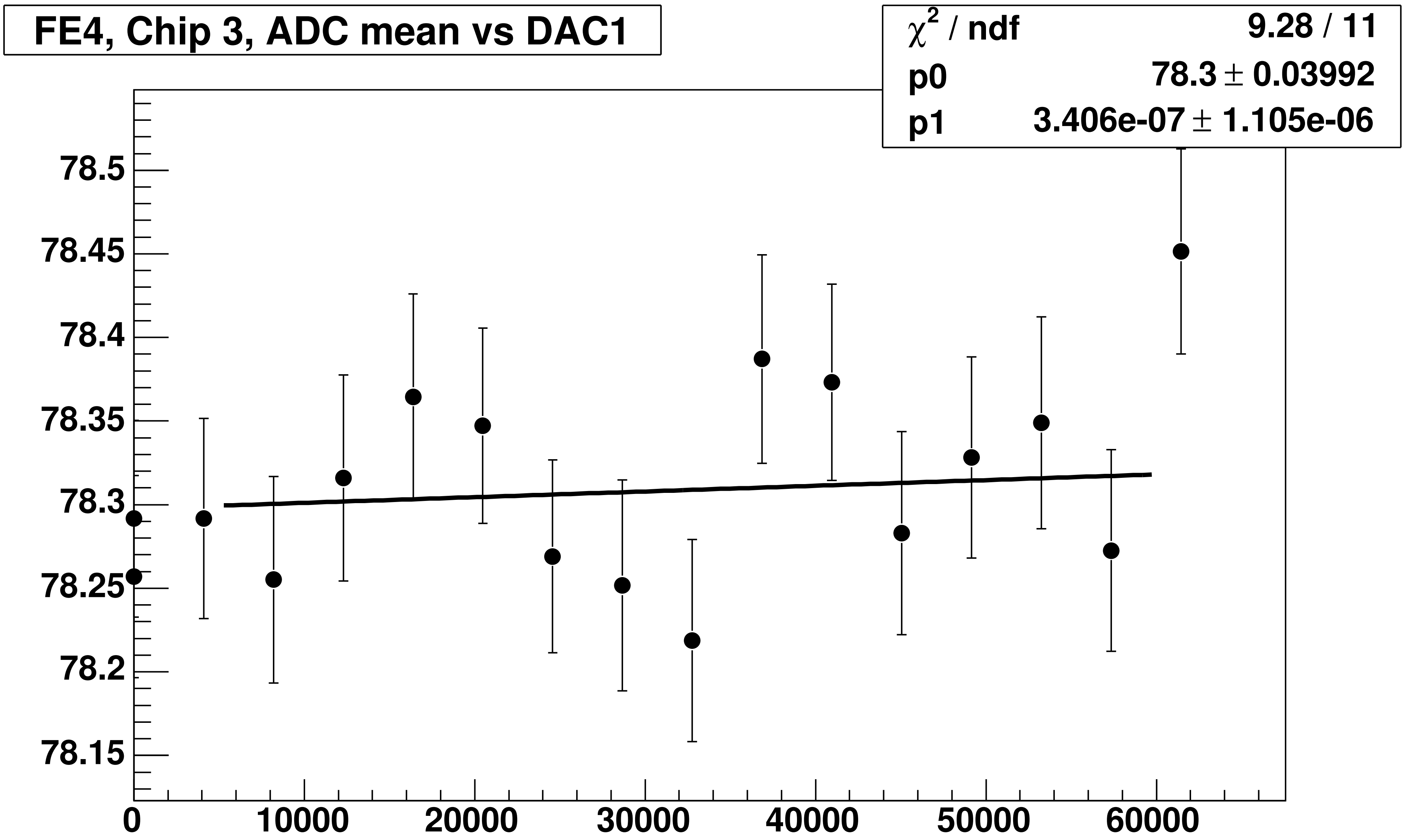


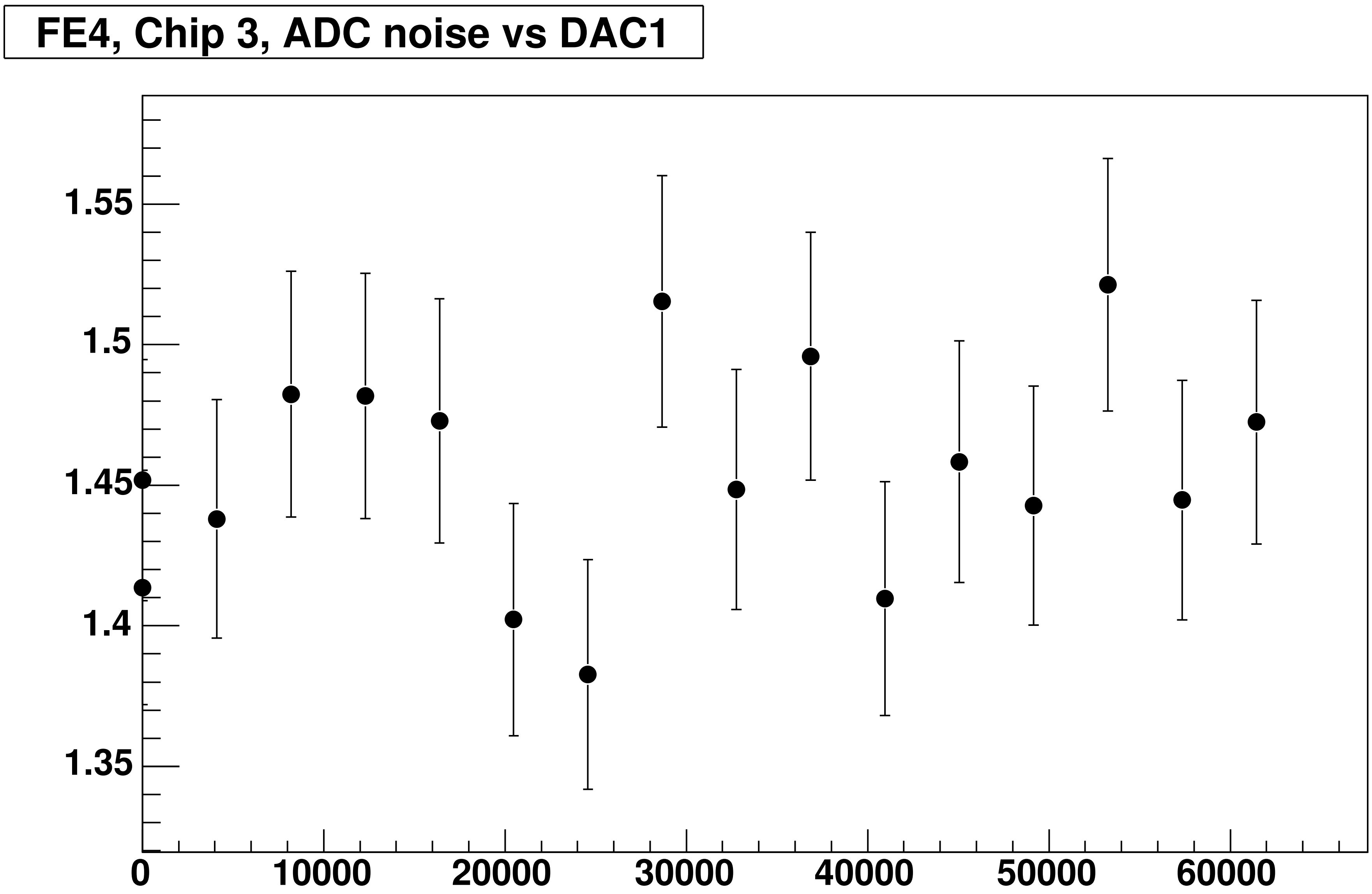
FE4, Chip 2, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

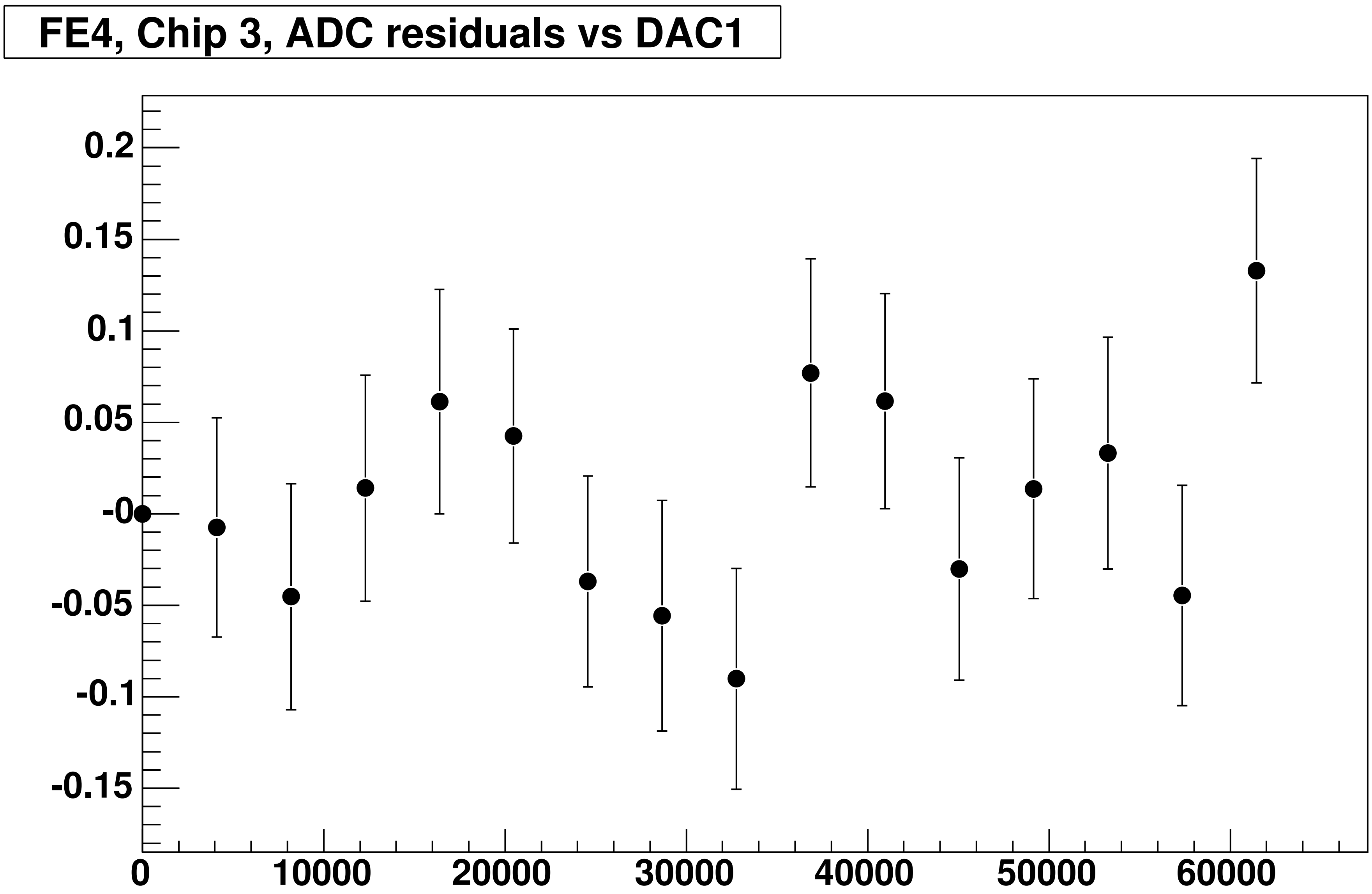

FE4, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1817 / 11
p0 81.24 ± 0.04204
p1 0.4511 ± 1.354e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


FE4, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

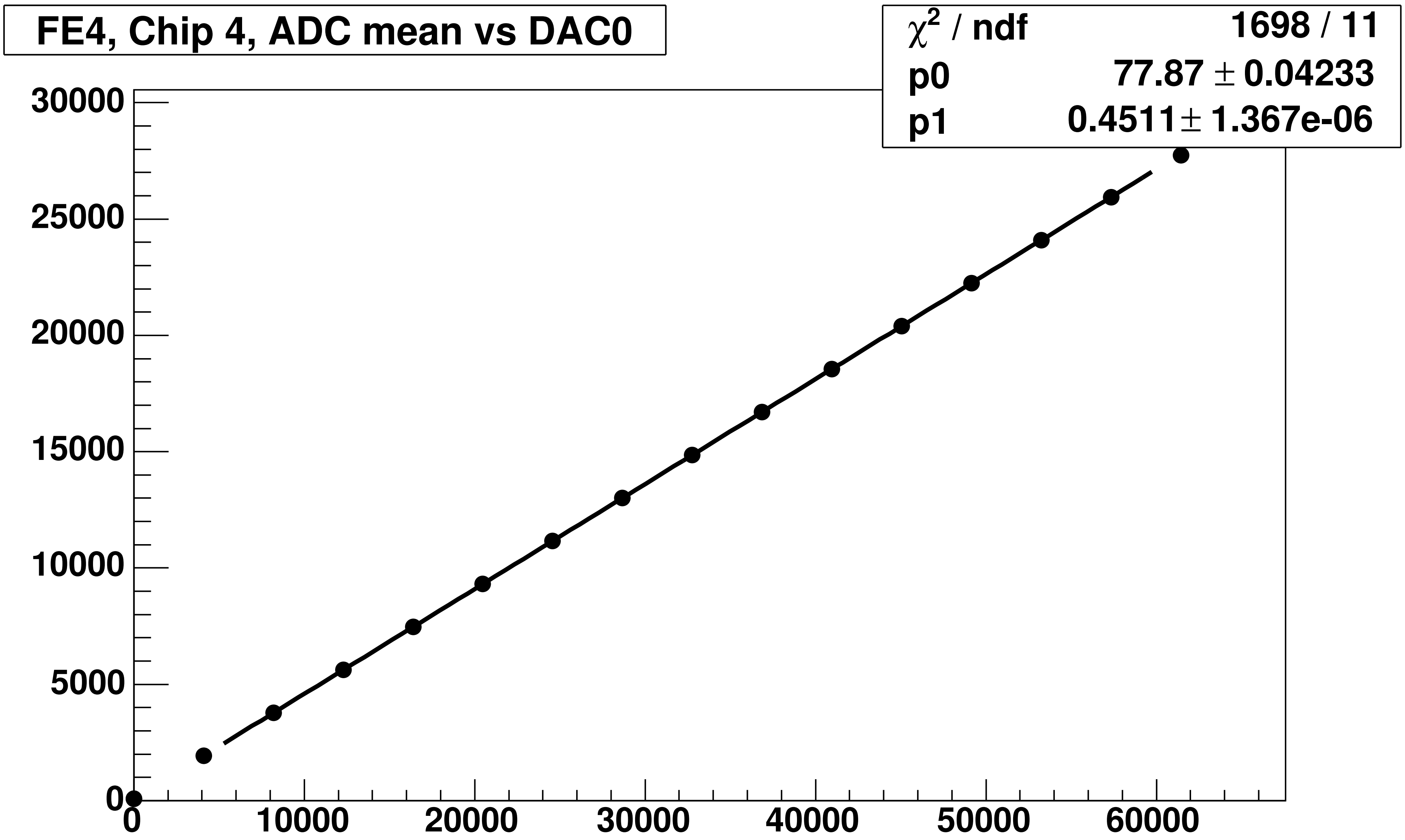

FE4, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE4, Chip 3, ADC mean vs DAC1
χ^2 / ndf 9.28 / 11
p0 78.3 ± 0.03992
p1 3.406e-07 ± 1.105e-06
78.5
78.45
78.4
78.35
78.3
78.25
78.2
78.15
0
10000
20000
30000
40000
50000
60000

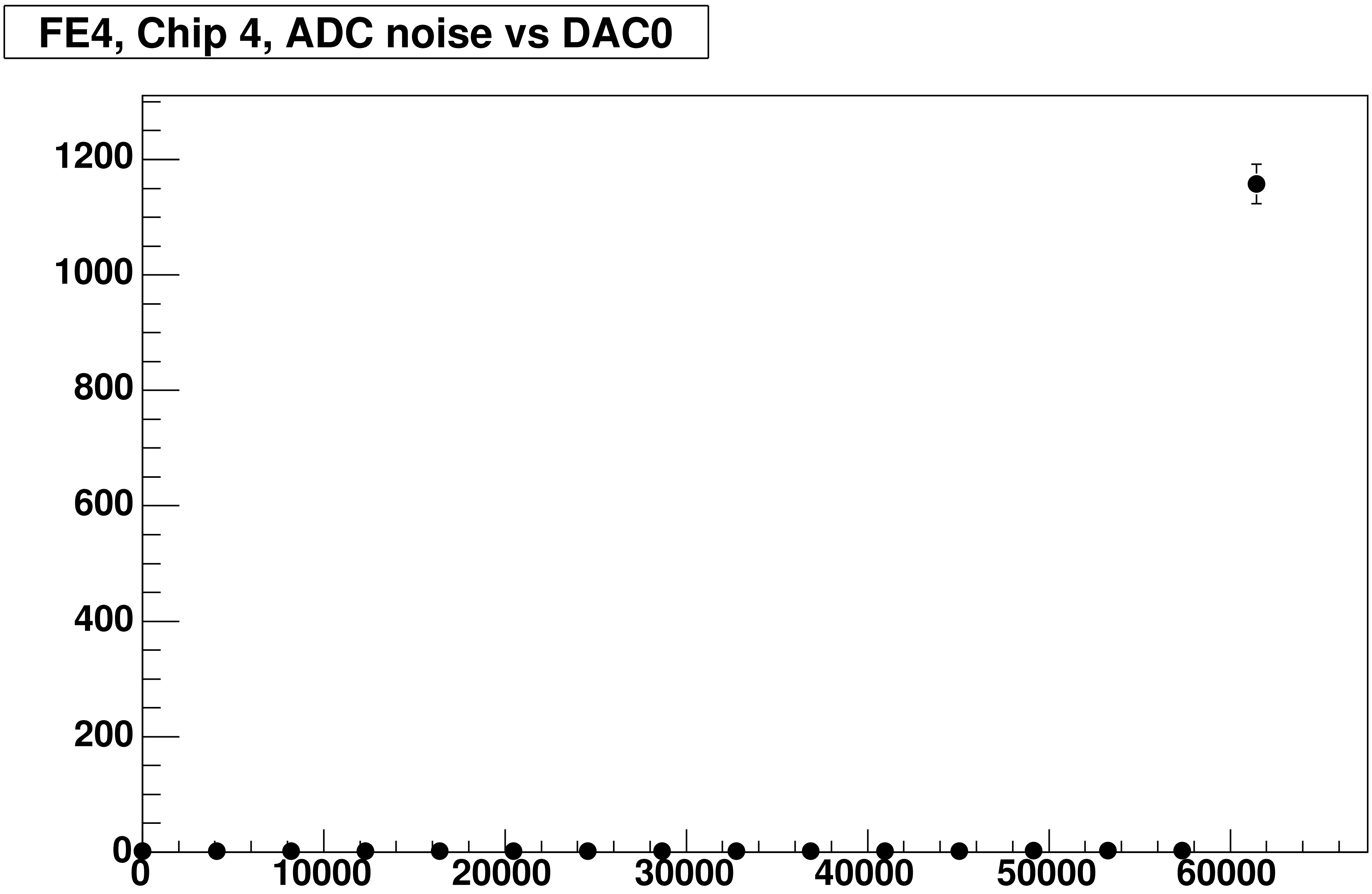

FE4, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

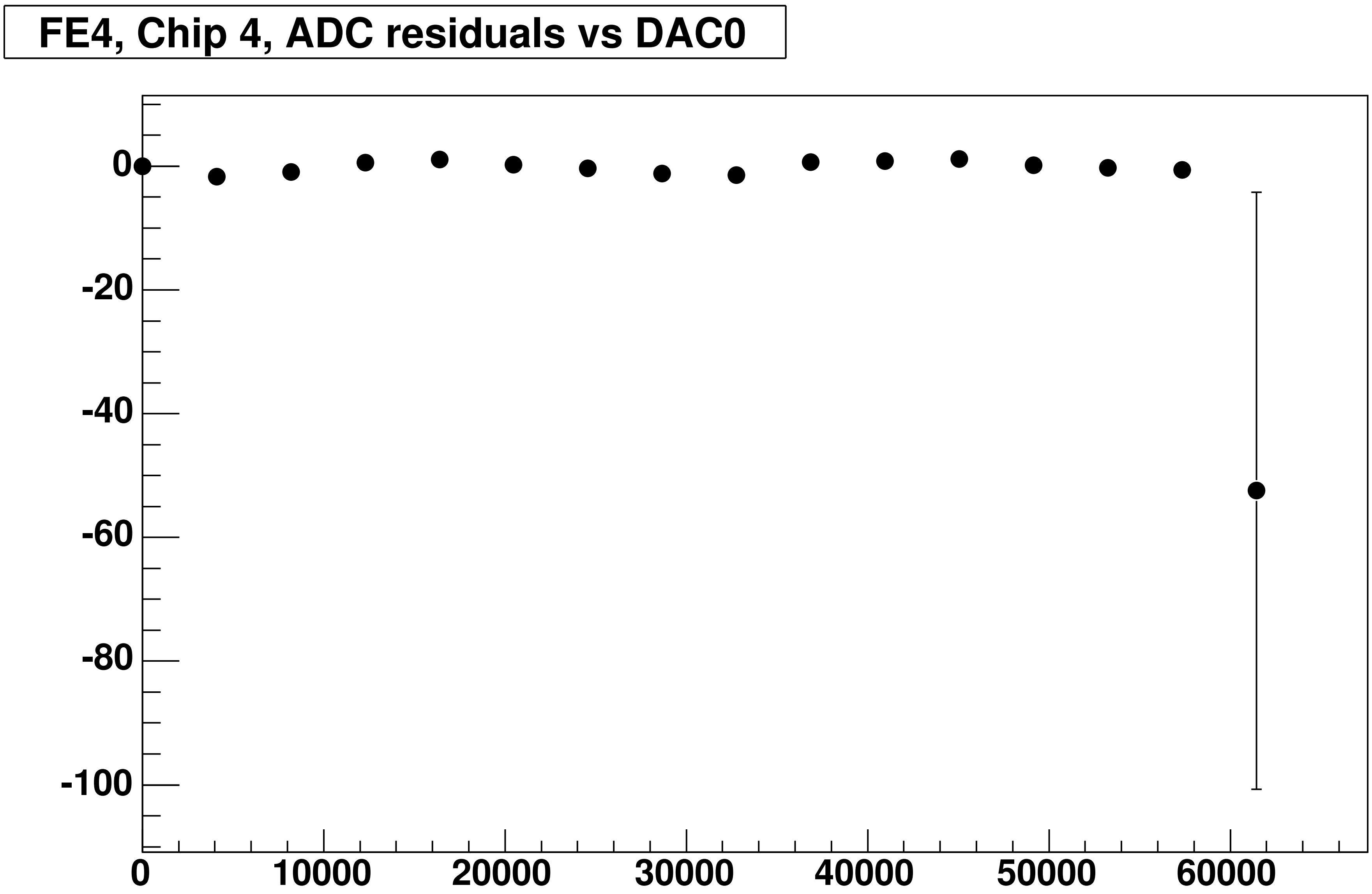


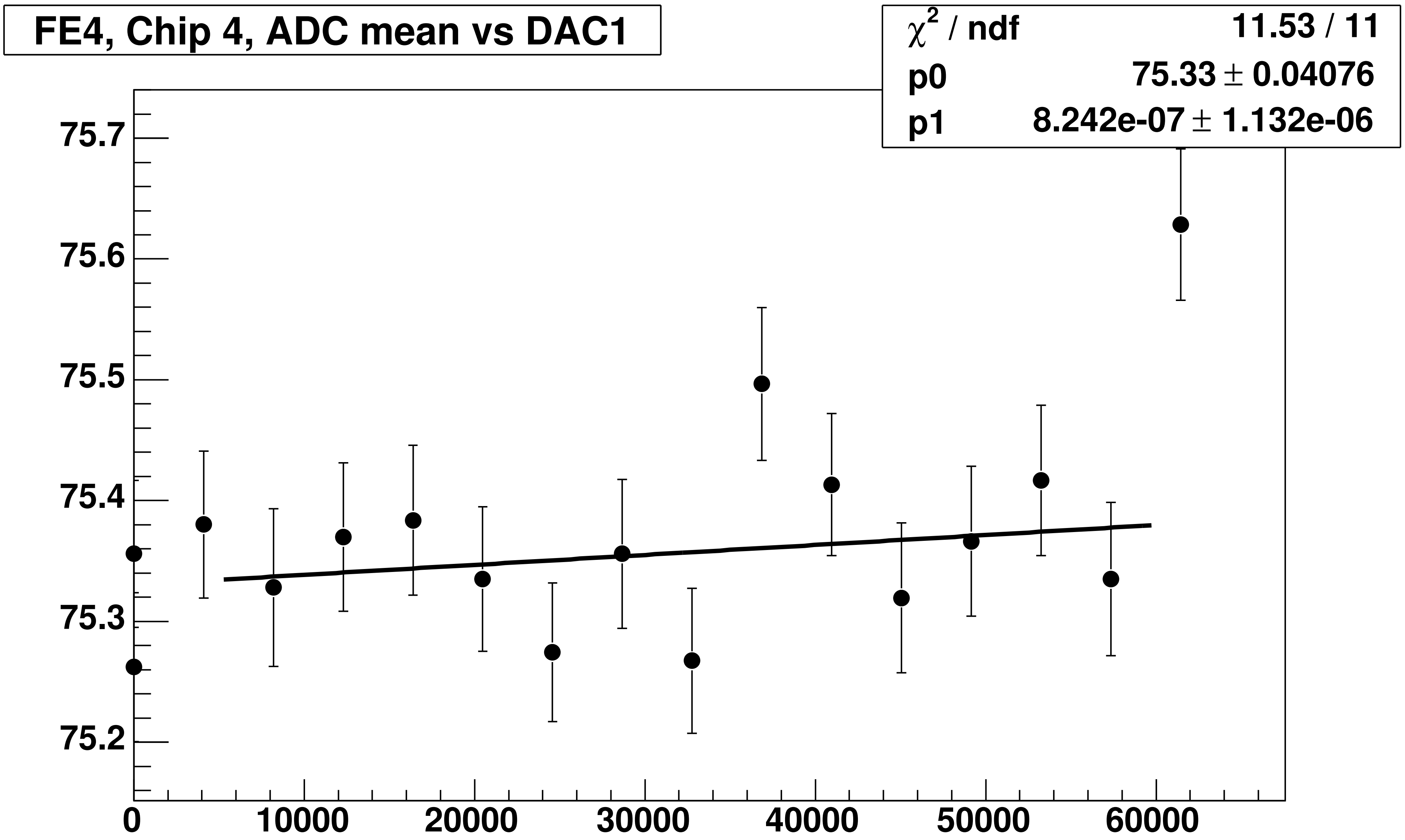
FE4, Chip 3, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

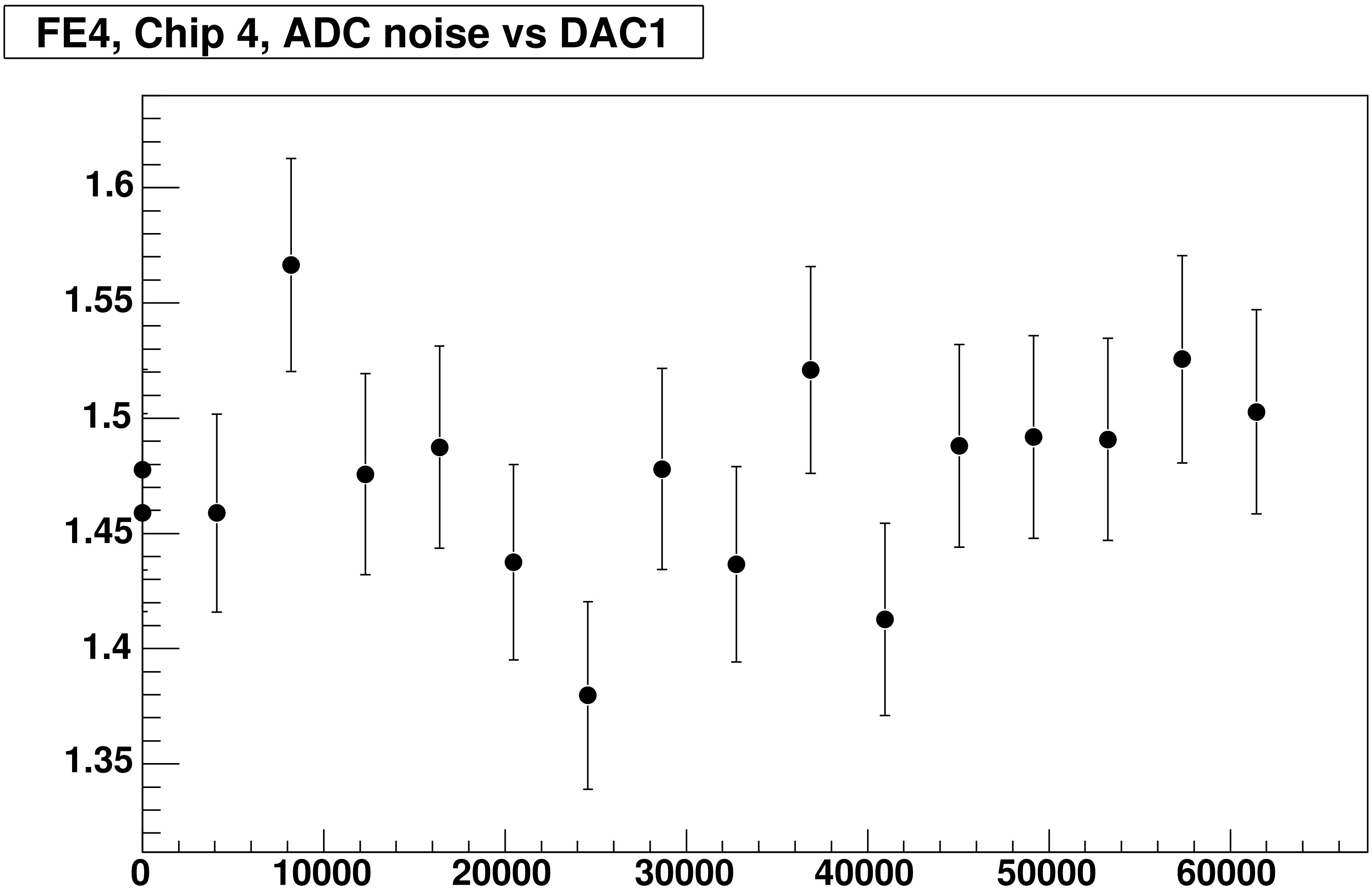


FE4, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1698 / 11
p0 77.87 ± 0.04233
p1 0.4511 ± 1.367e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

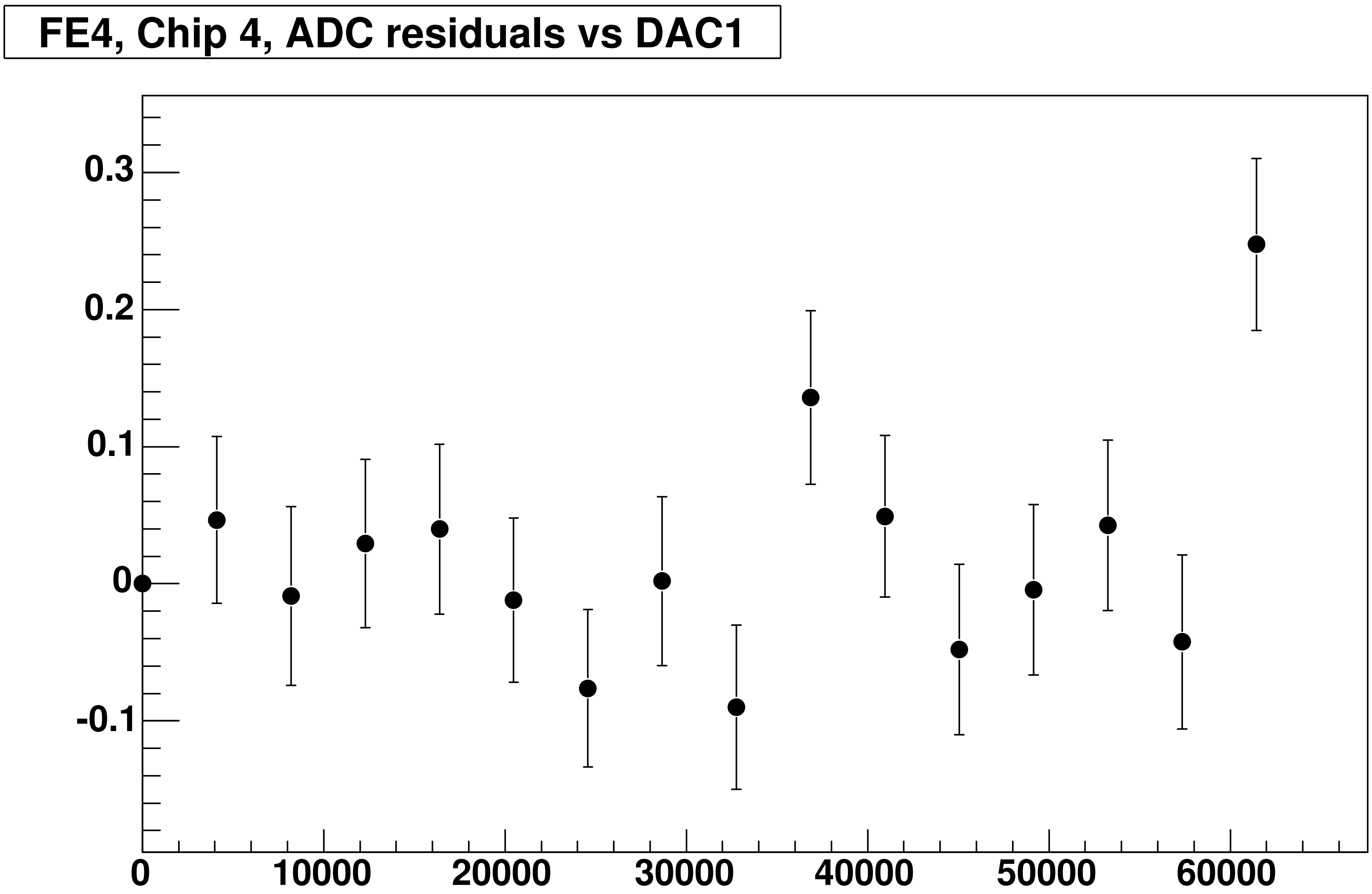

FE4, Chip 4, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

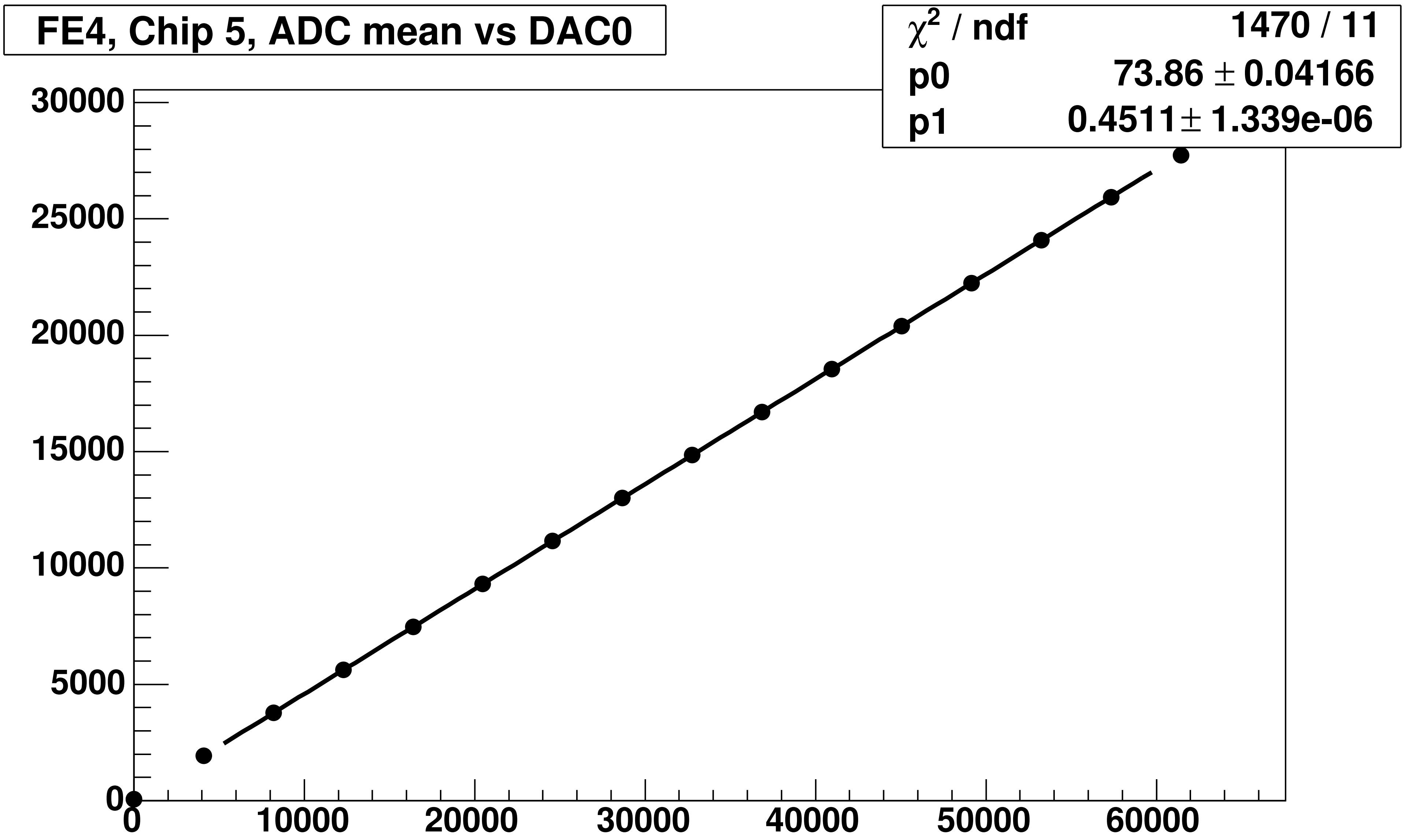

FE4, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE4, Chip 4, ADC mean vs DAC1
χ^2 / ndf 11.53 / 11
p0 75.33 ± 0.04076
p1 8.242e-07 ± 1.132e-06
75.7
75.6
75.5
75.4
75.3
75.2
0
10000
20000
30000
40000
50000
60000



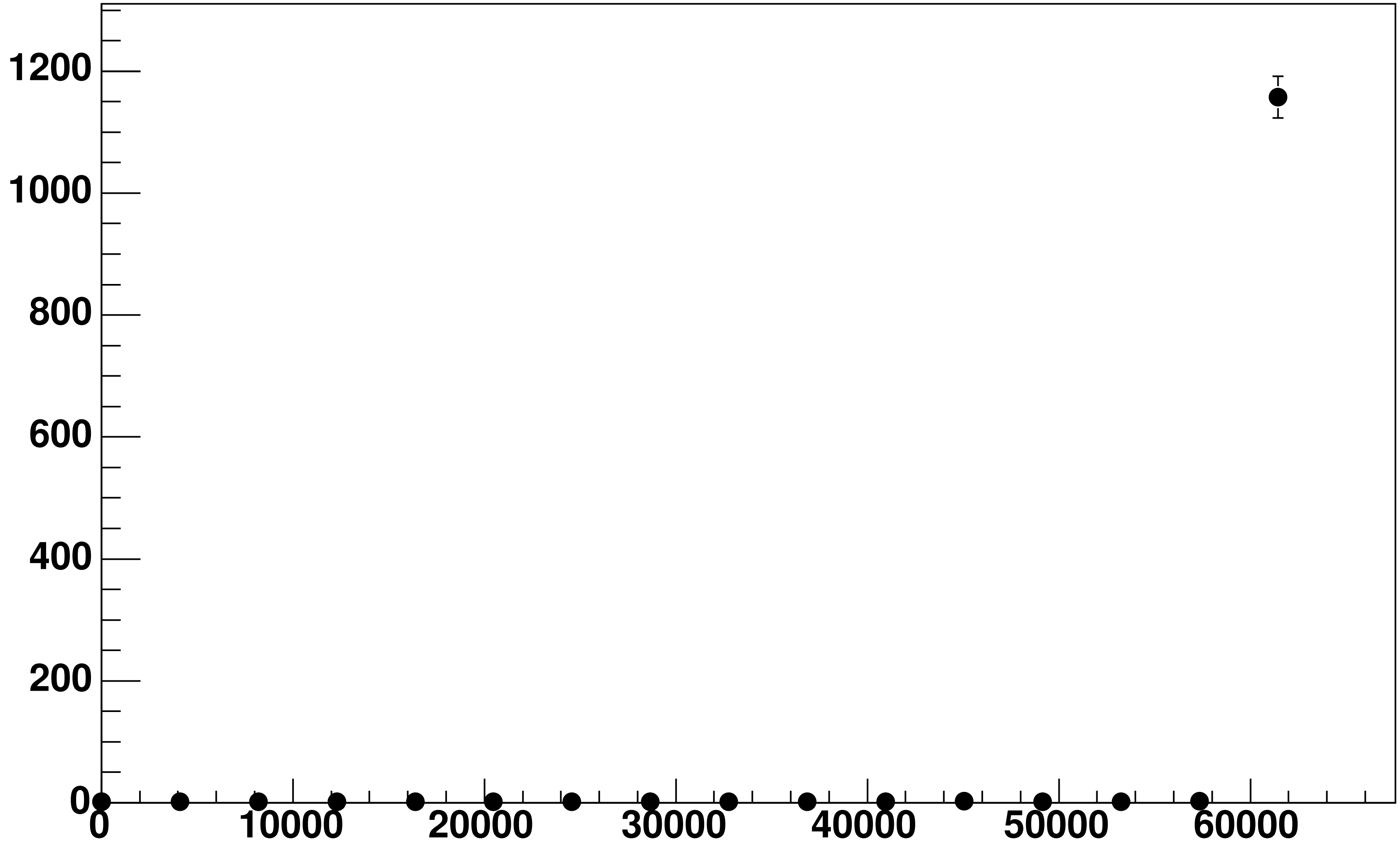
FE4, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

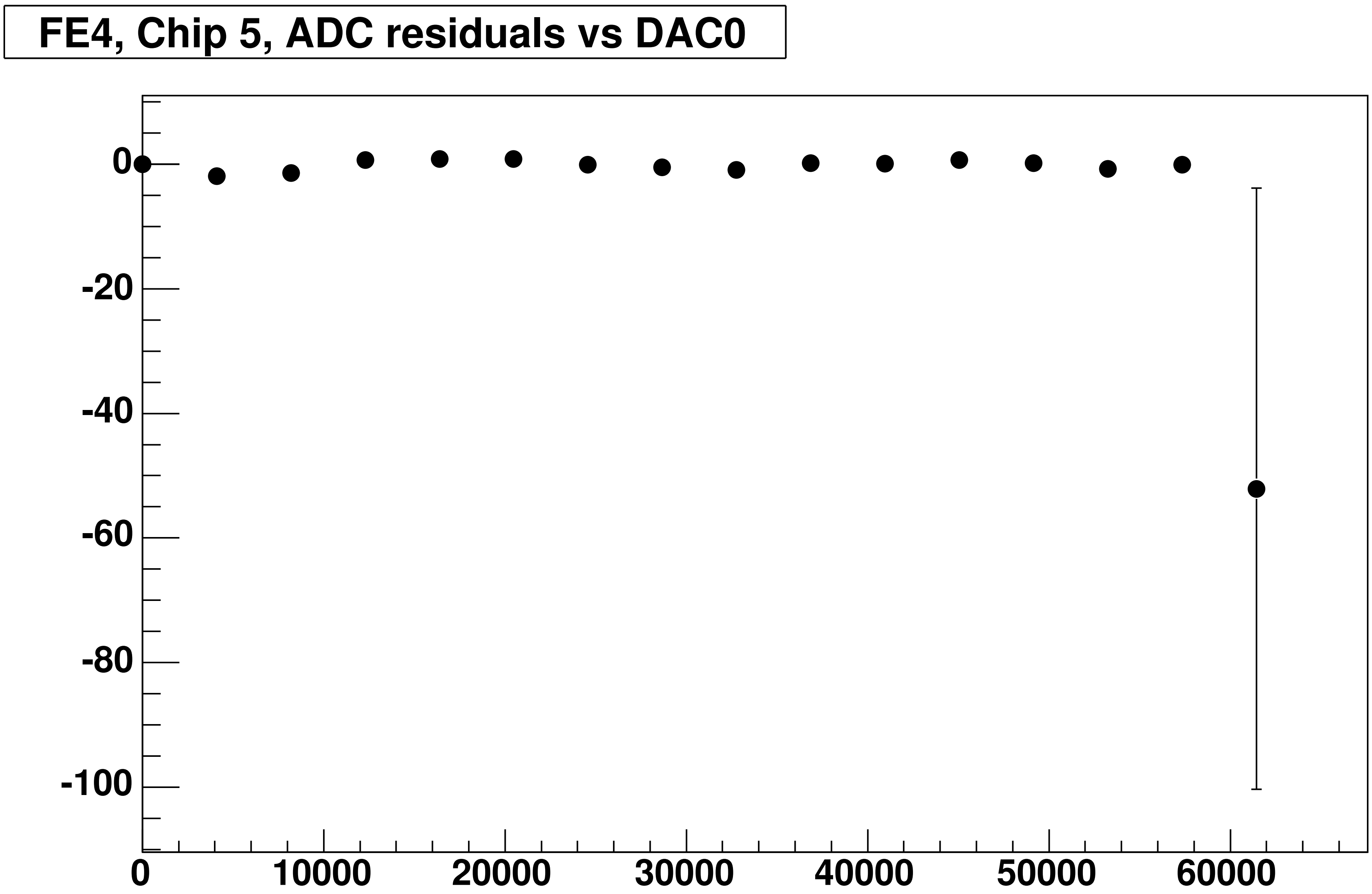

FE4, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
0
10000
20000
30000
40000
50000
60000

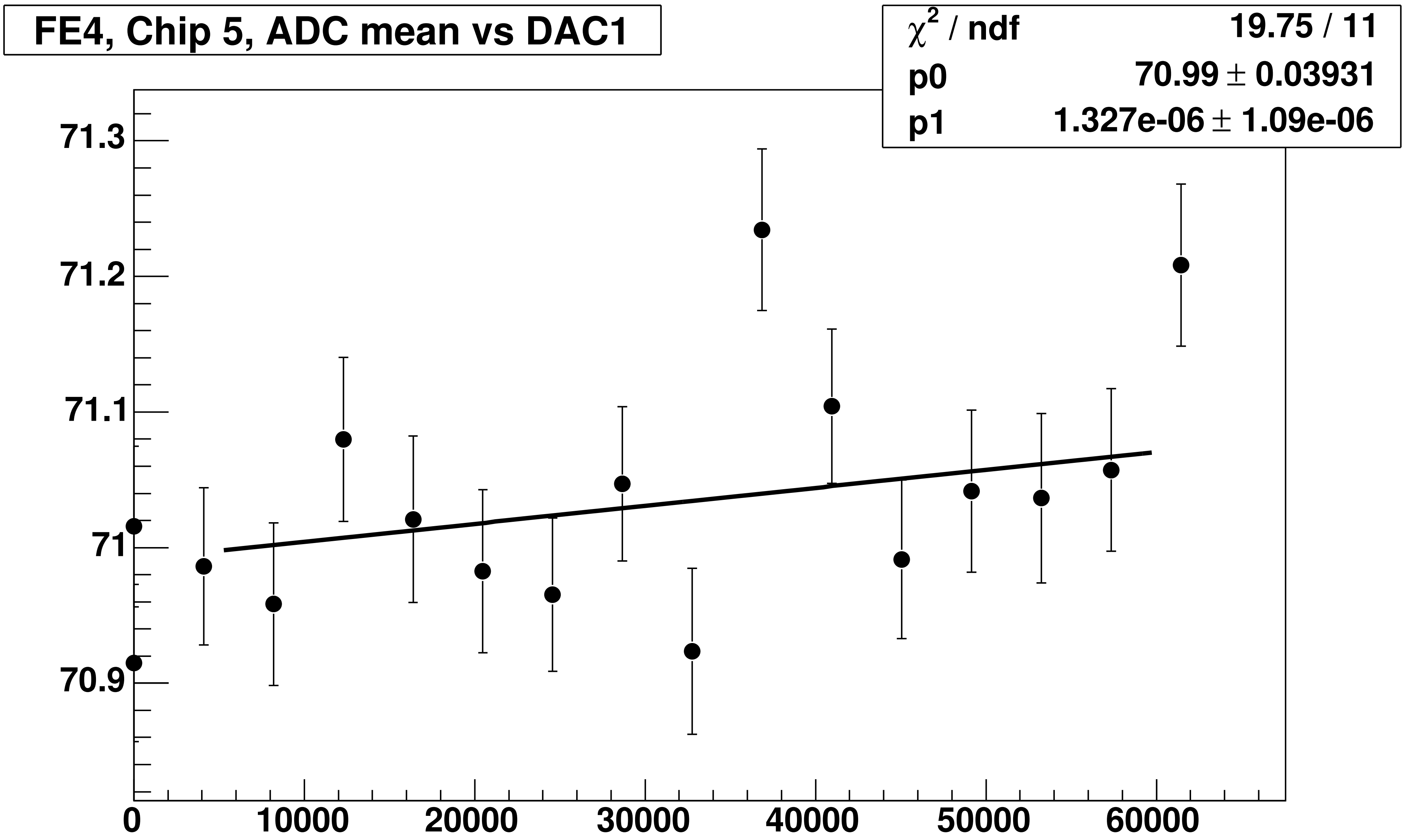


FE4, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1470 / 11
p0 73.86 ± 0.04166
p1 0.4511 ± 1.339e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

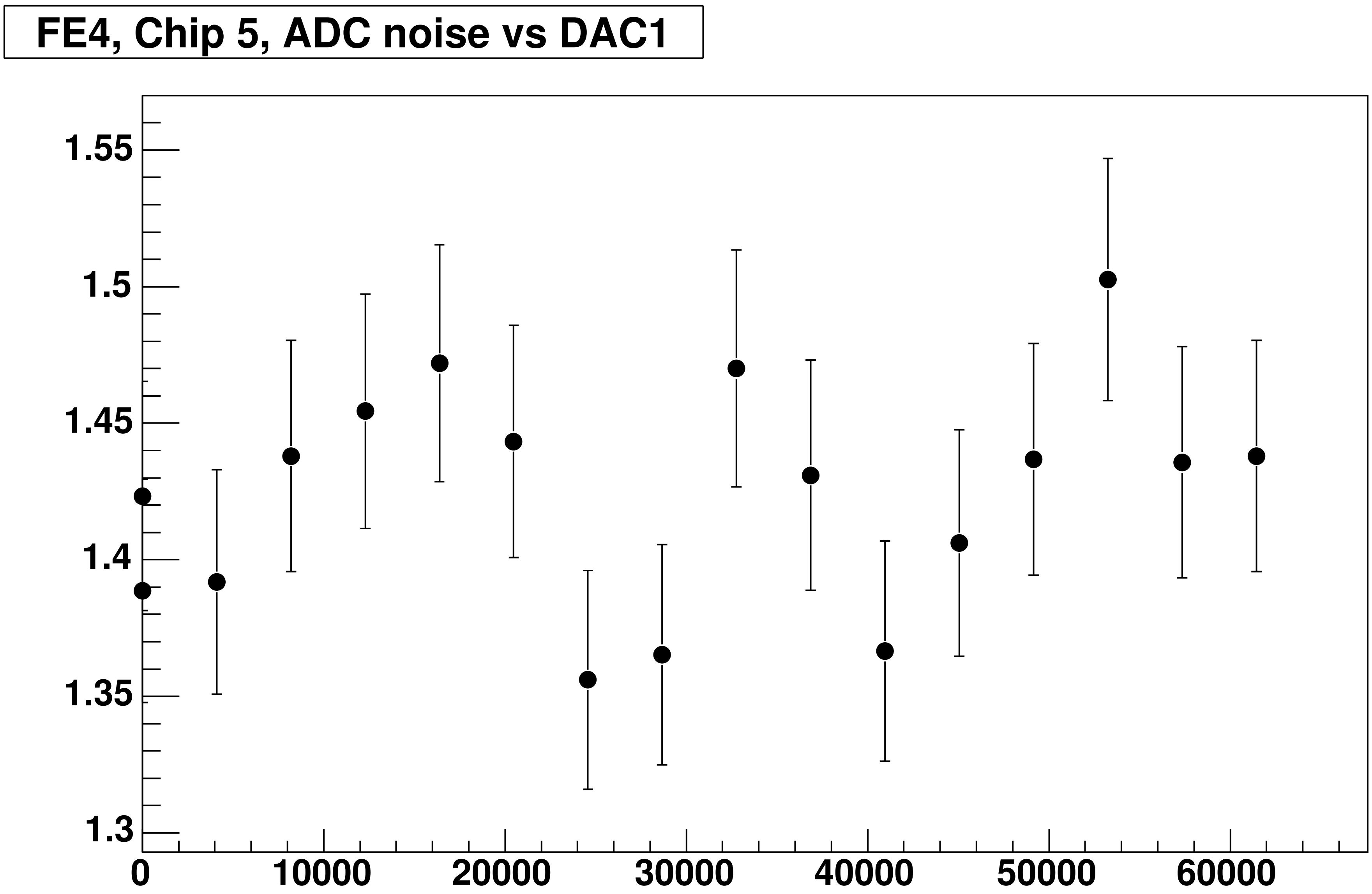
FE4, Chip 5, ADC noise vs DAC0



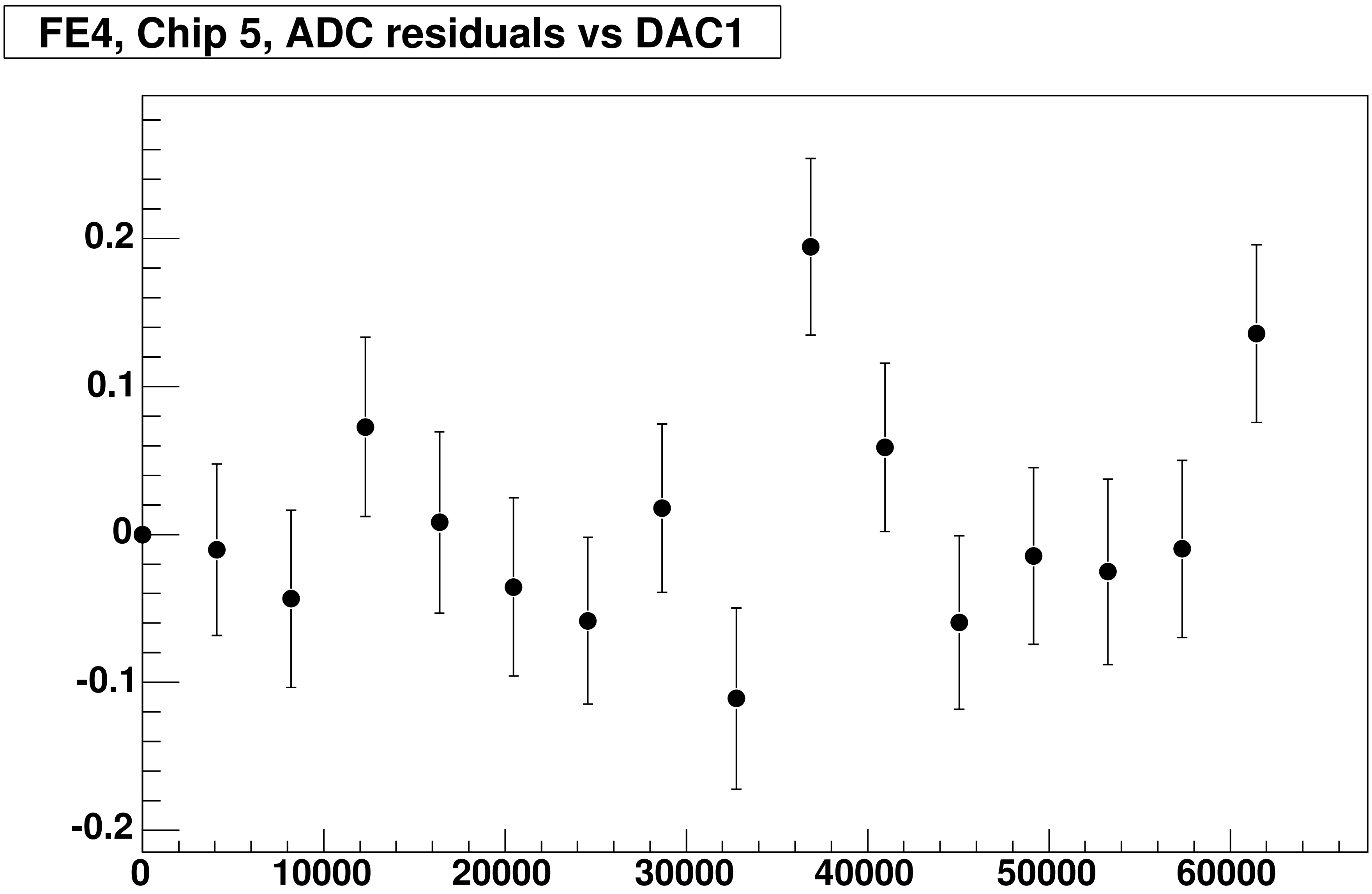

FE4, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

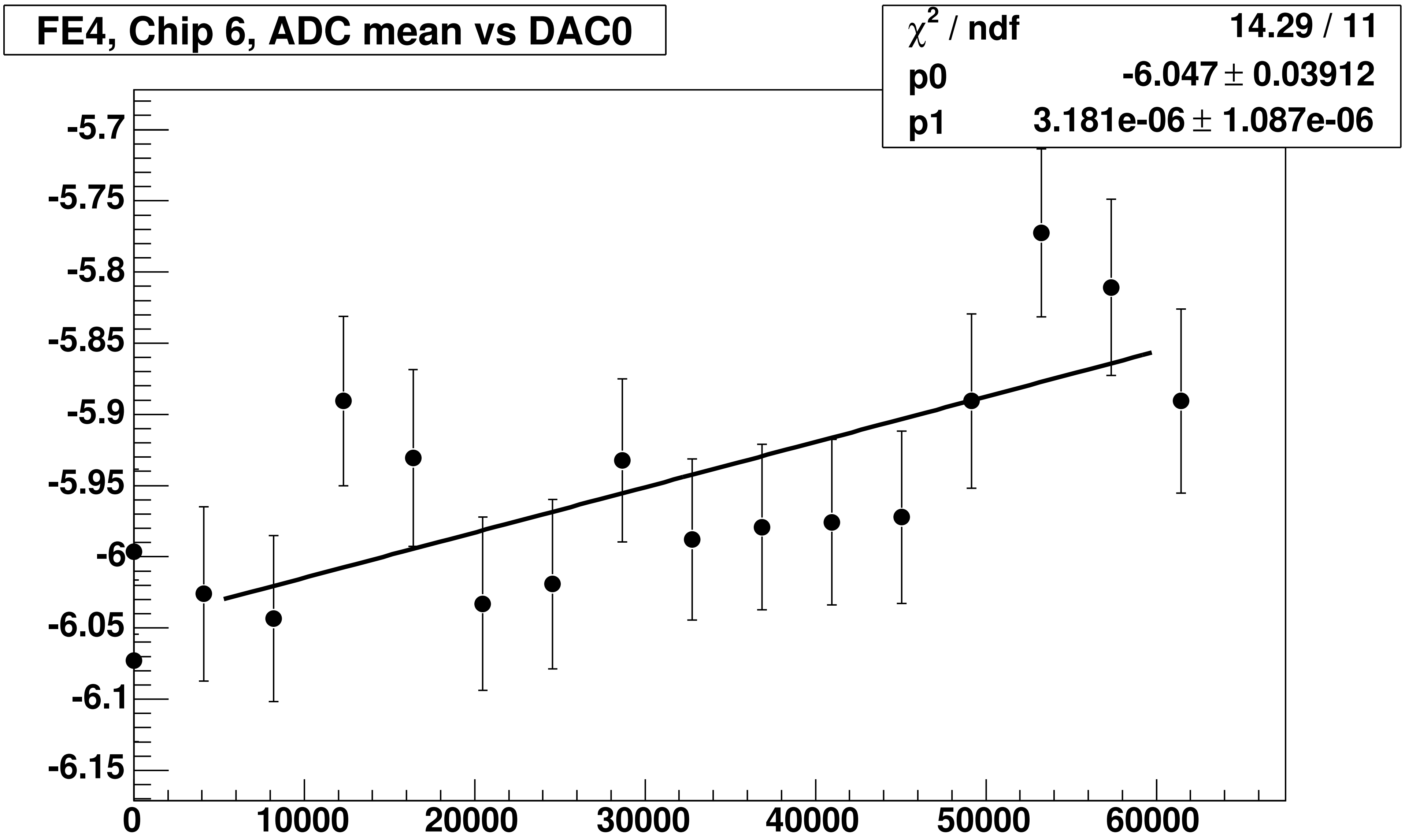


FE4, Chip 5, ADC mean vs DAC1
χ2 / ndf 19.75 / 11
p0 70.99 ± 0.03931
p1 1.327e-06 ± 1.09e-06
71.3
71.2
71.1
71
70.9
0
10000
20000
30000
40000
50000
60000

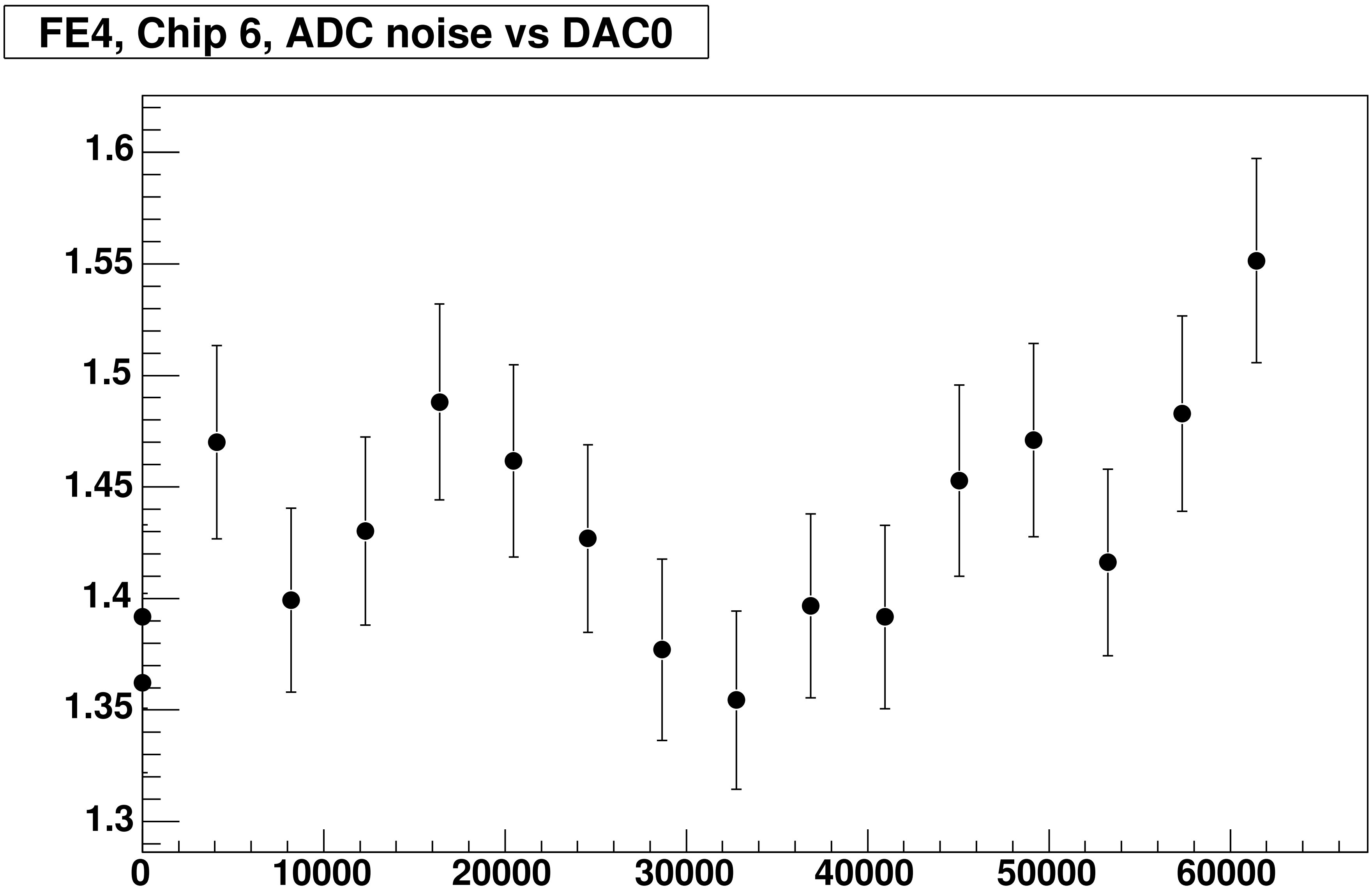


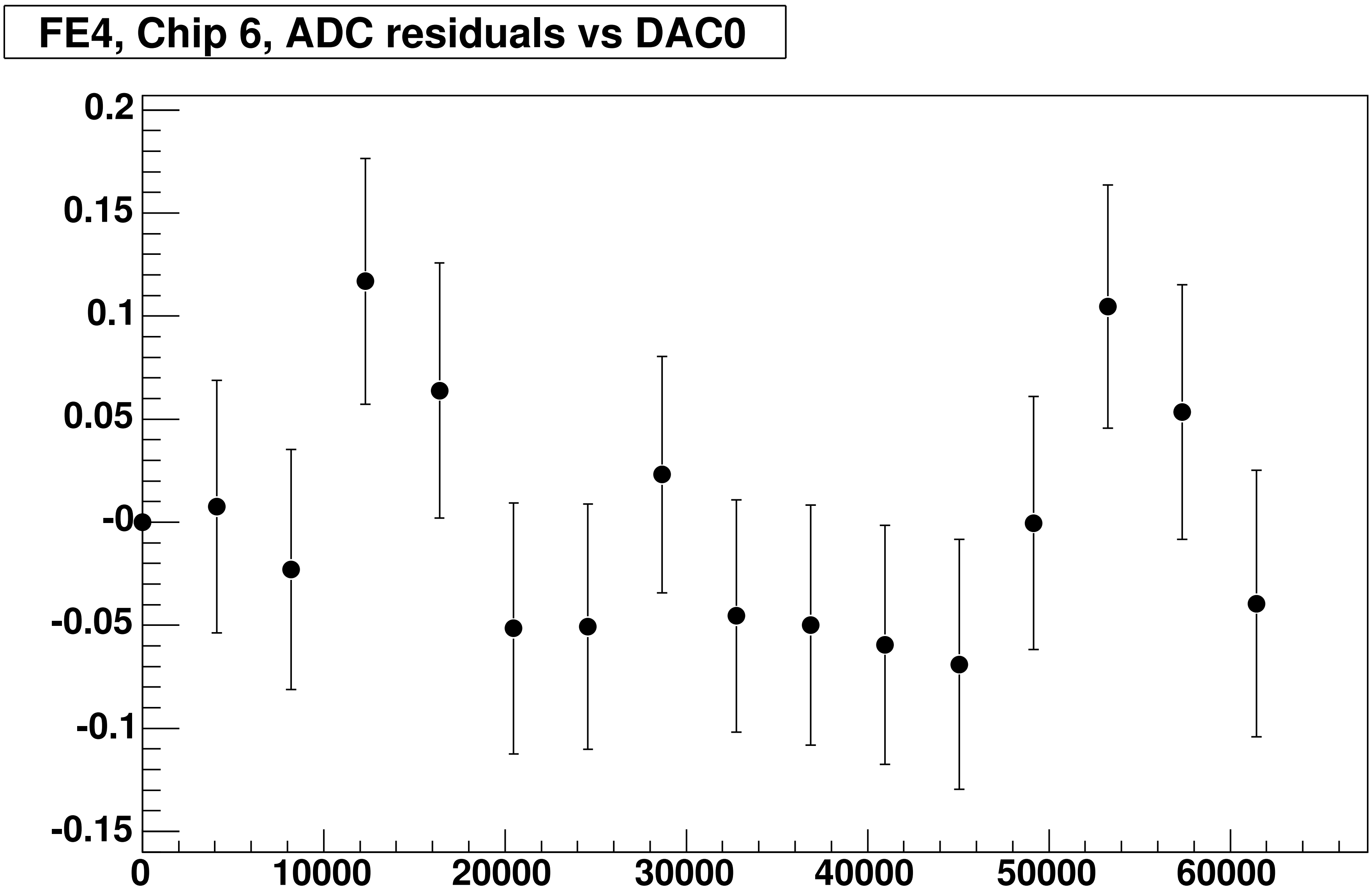
FE4, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

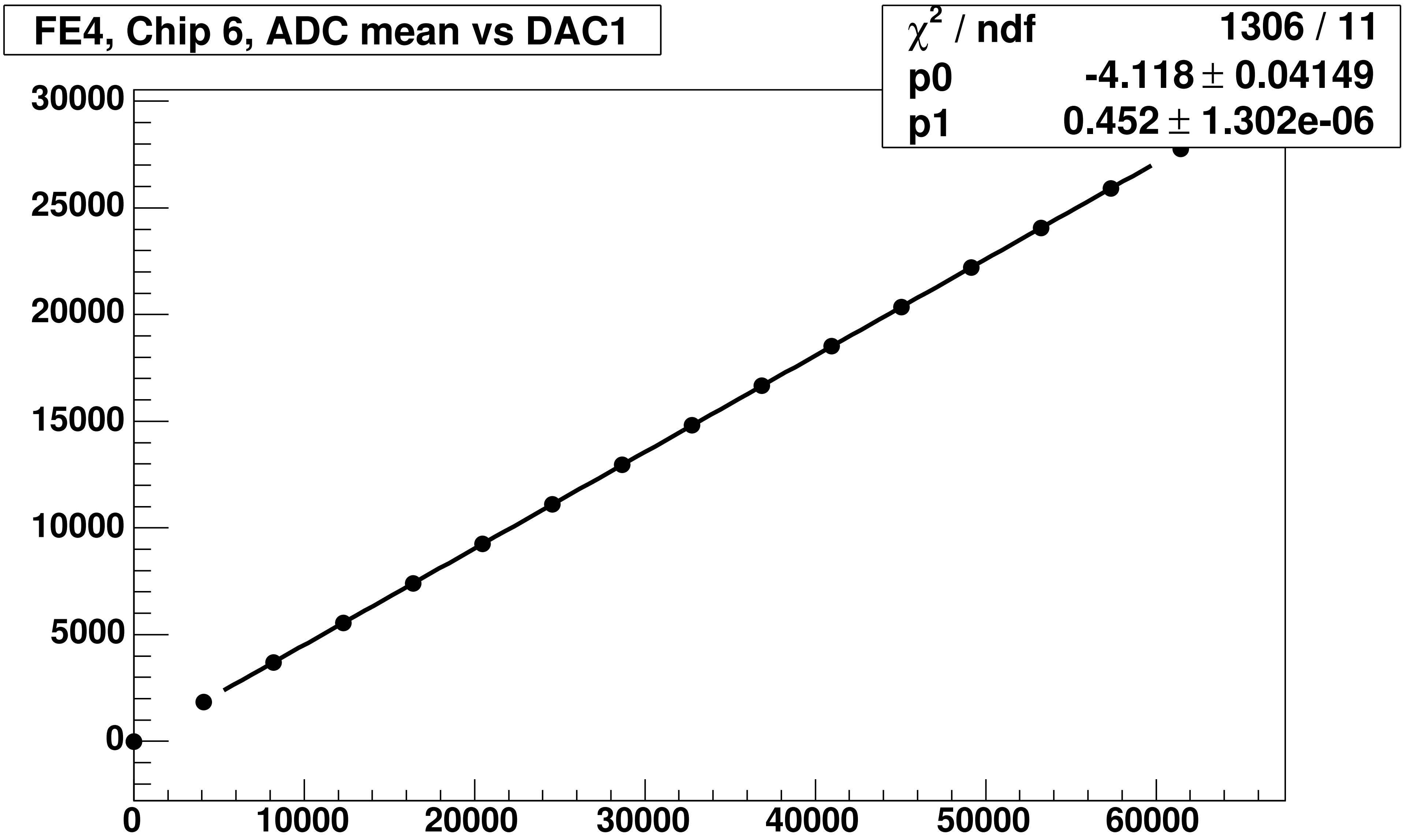

FE4, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



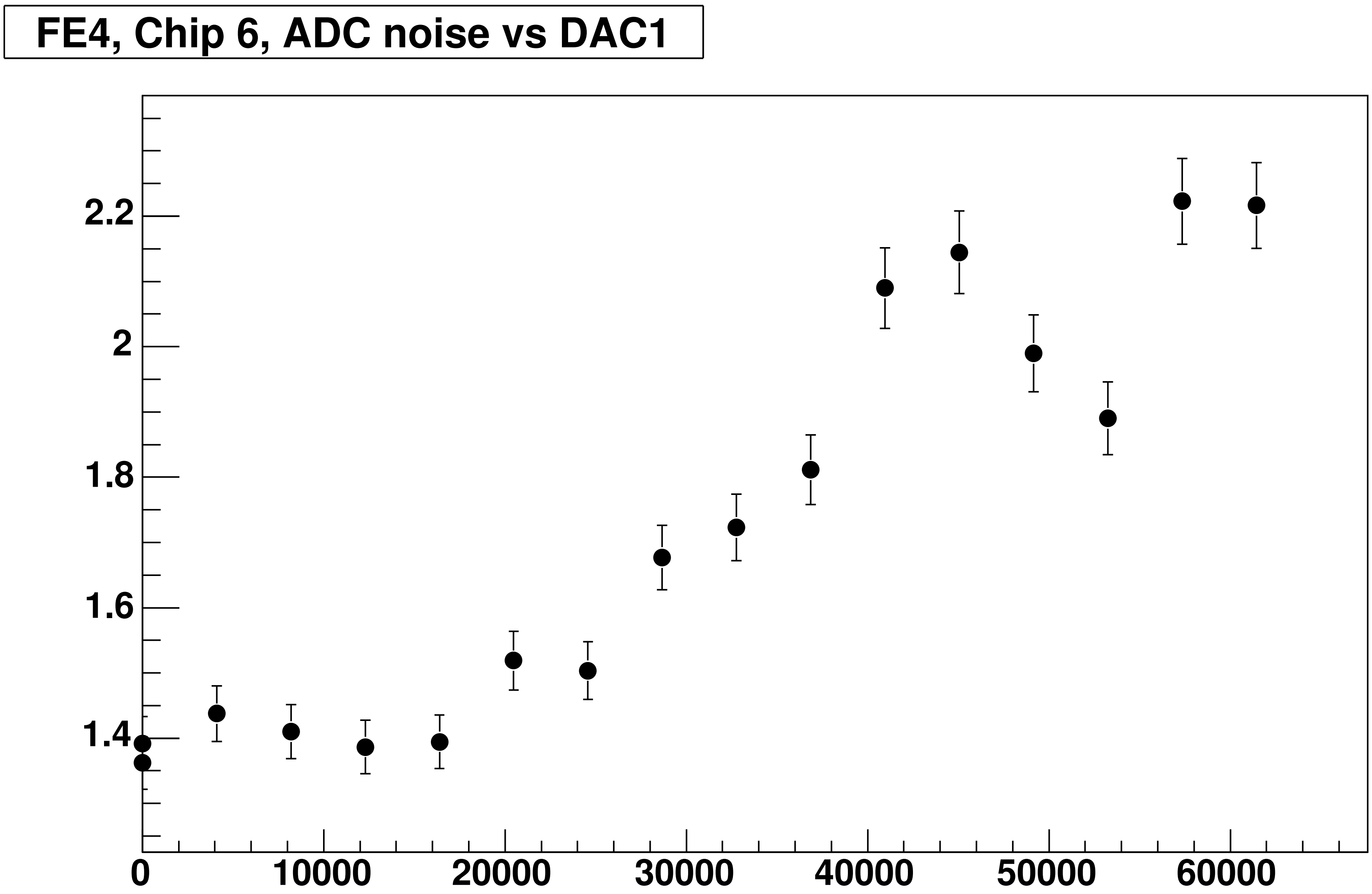
FE4, Chip 6, ADC mean vs DAC0
χ^2 / ndf 14.29 / 11
p0 -6.047 ± 0.03912
p1 3.181e-06 ± 1.087e-06
-5.7
-5.75
-5.8
-5.85
-5.9
-5.95
-6
-6.05
-6.1
-6.15
0
10000
20000
30000
40000
50000
60000

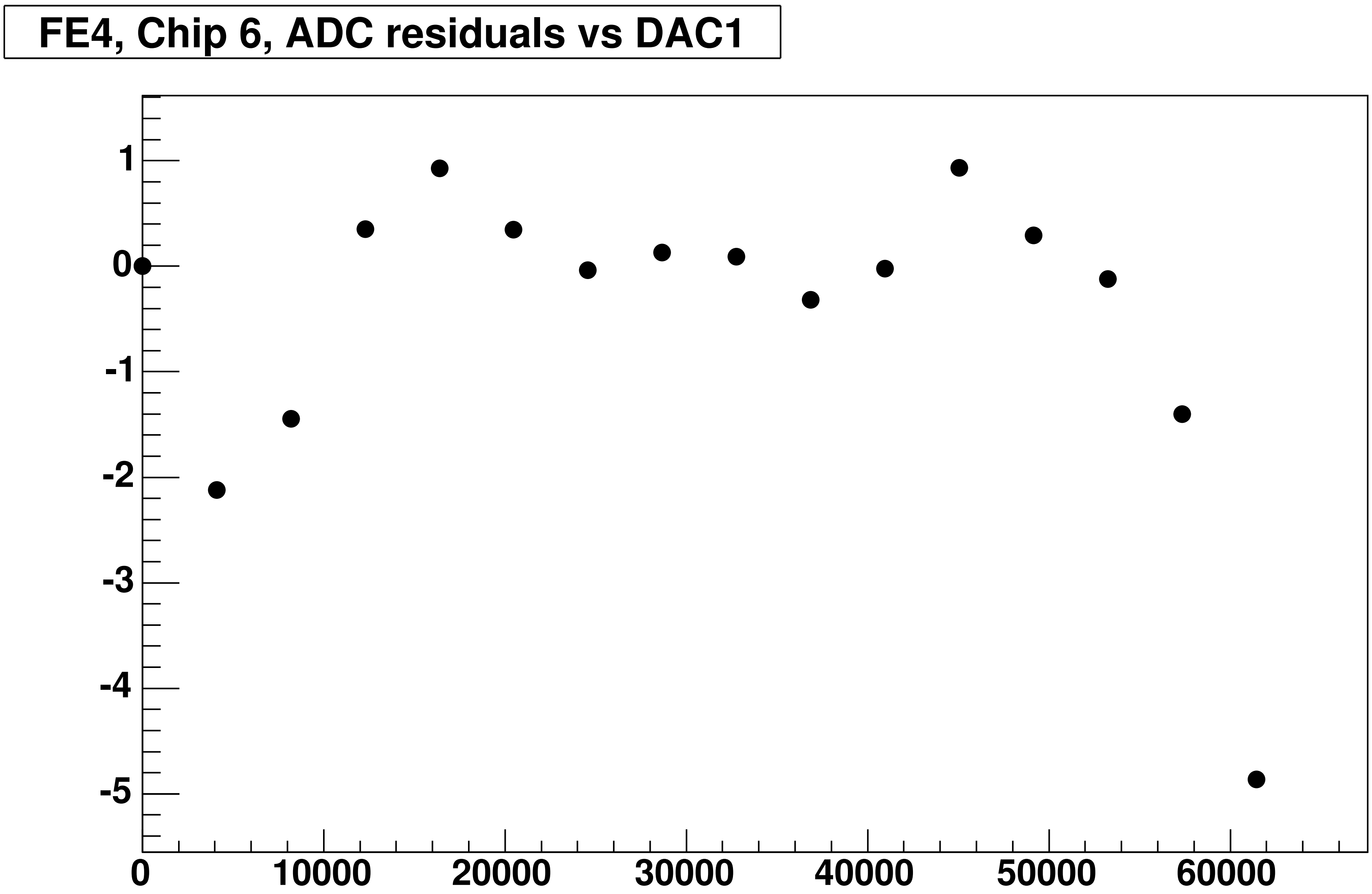

FE4, Chip 6, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


FE4, Chip 6, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

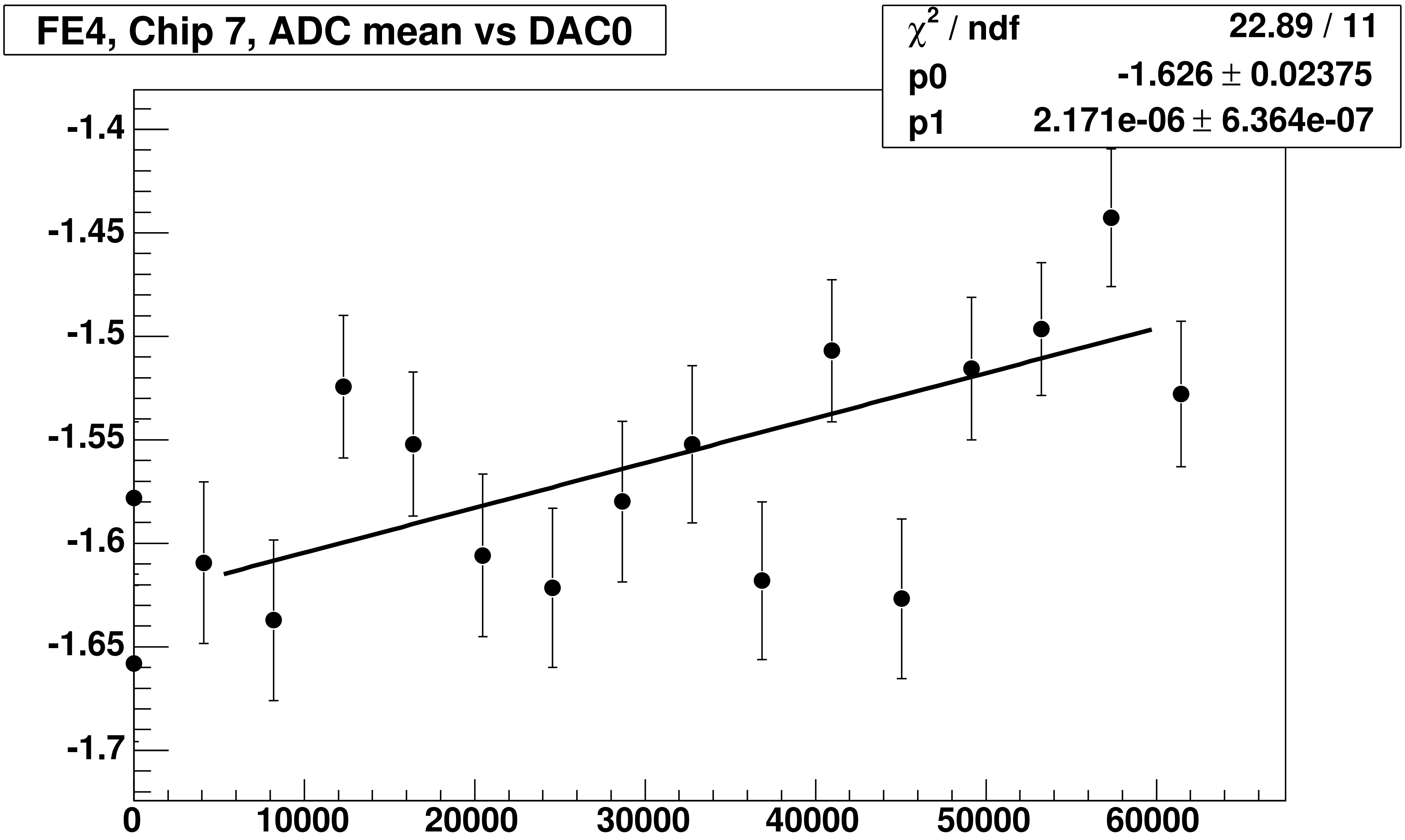


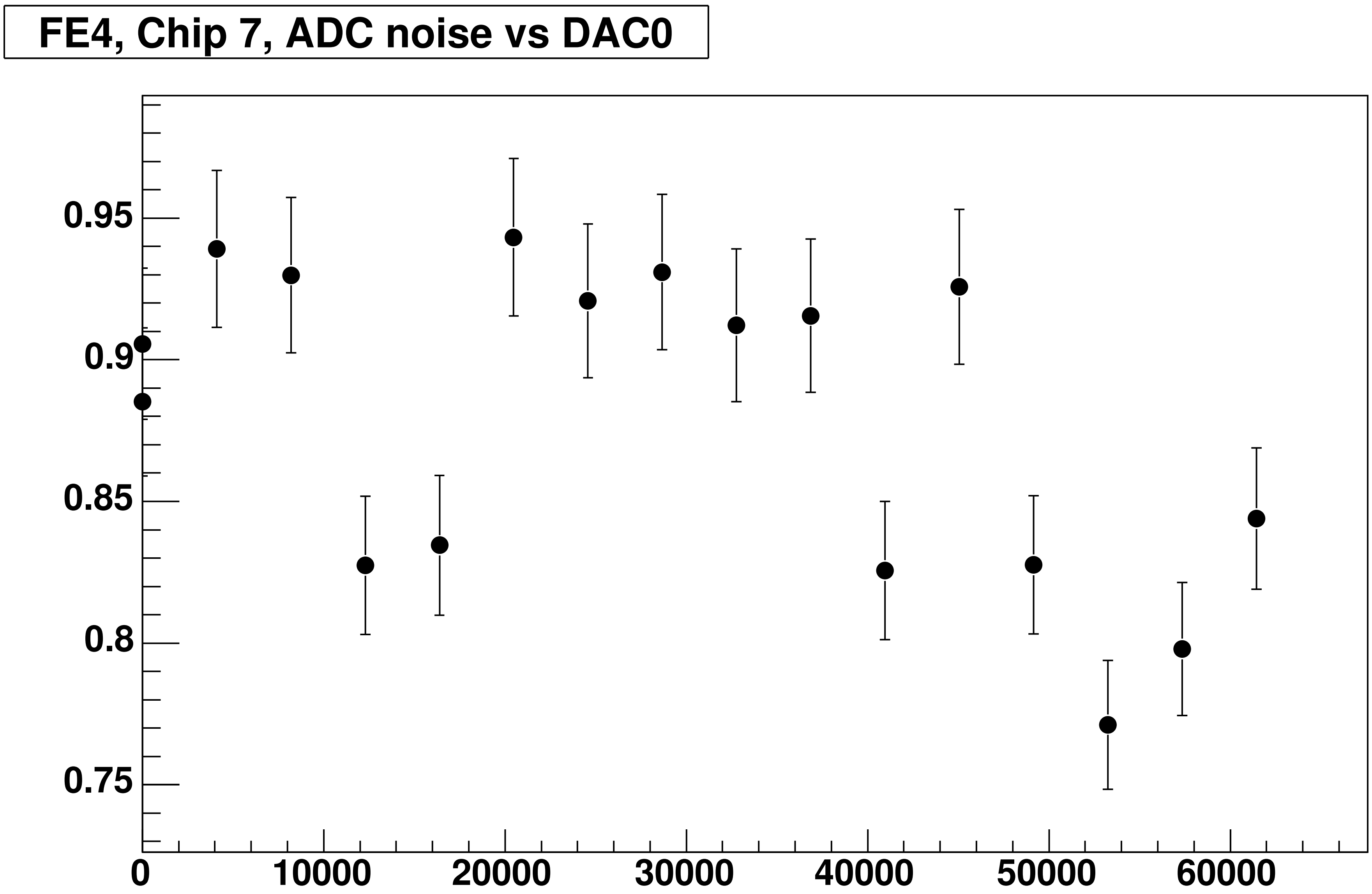
FE4, Chip 6, ADC mean vs DAC1
χ² / ndf 1306 / 11
p0 -4.118 ± 0.04149
p1 0.452 ± 1.302e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

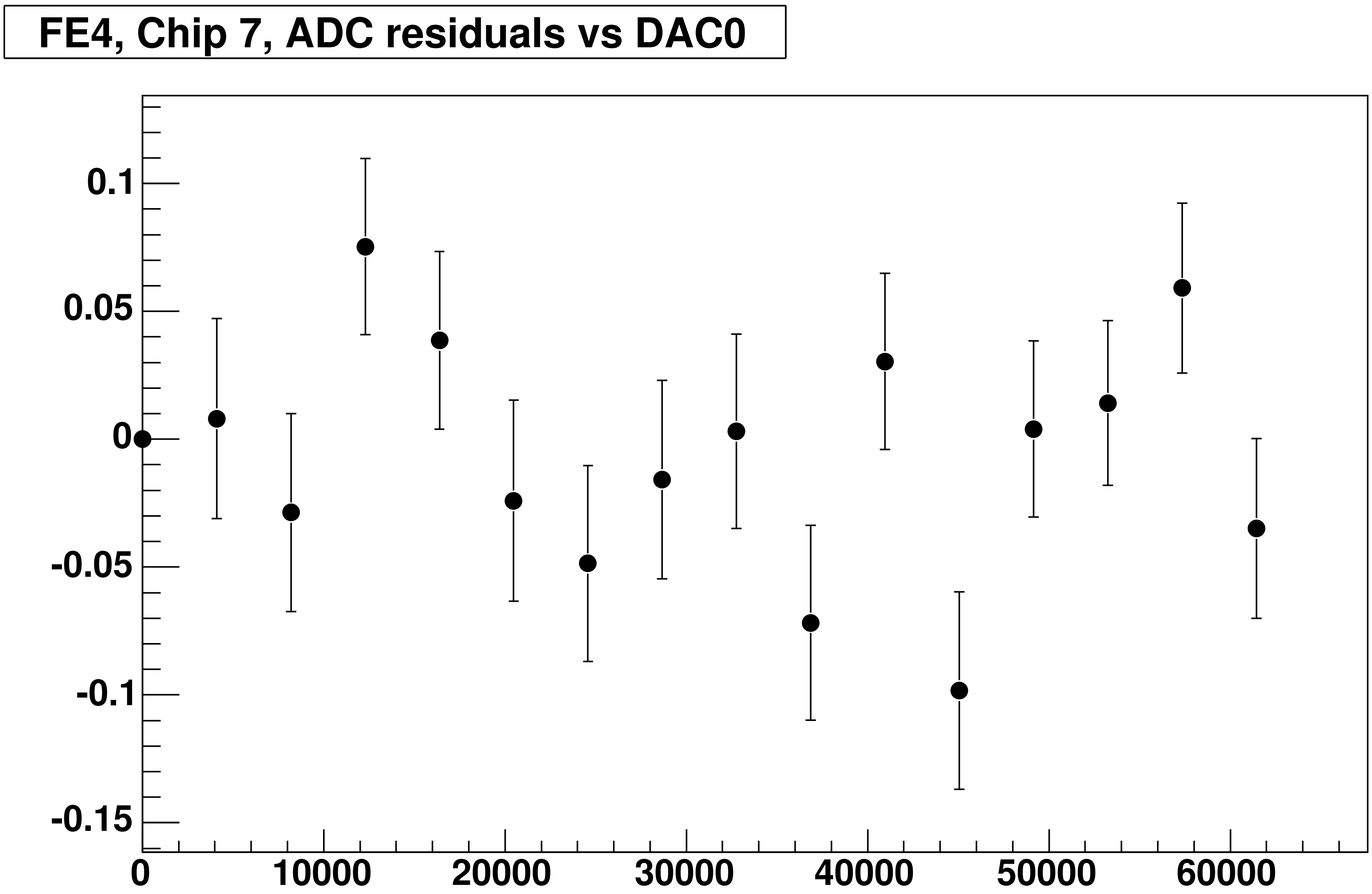

FE4, Chip 6, ADC noise vs DAC1
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



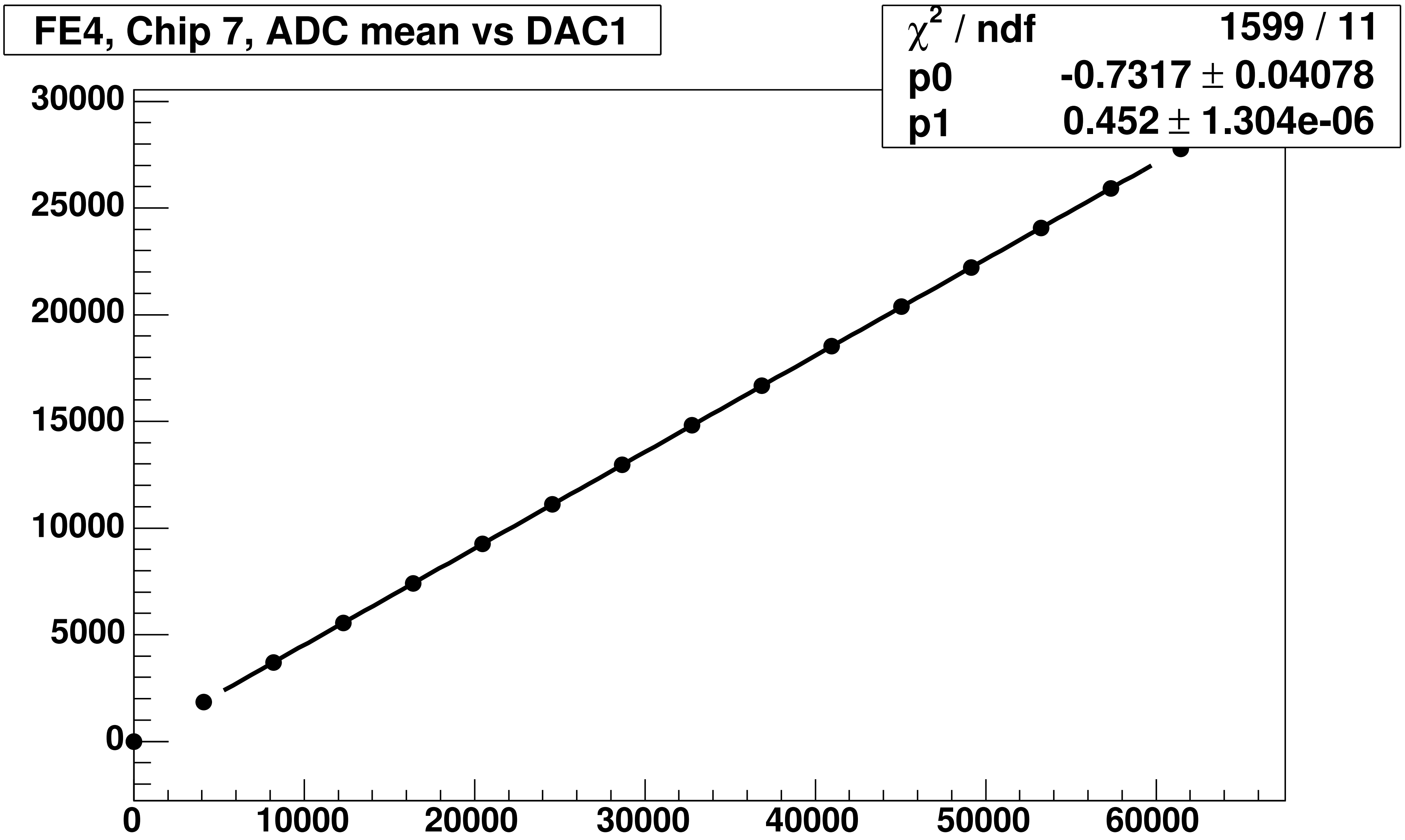
FE4, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

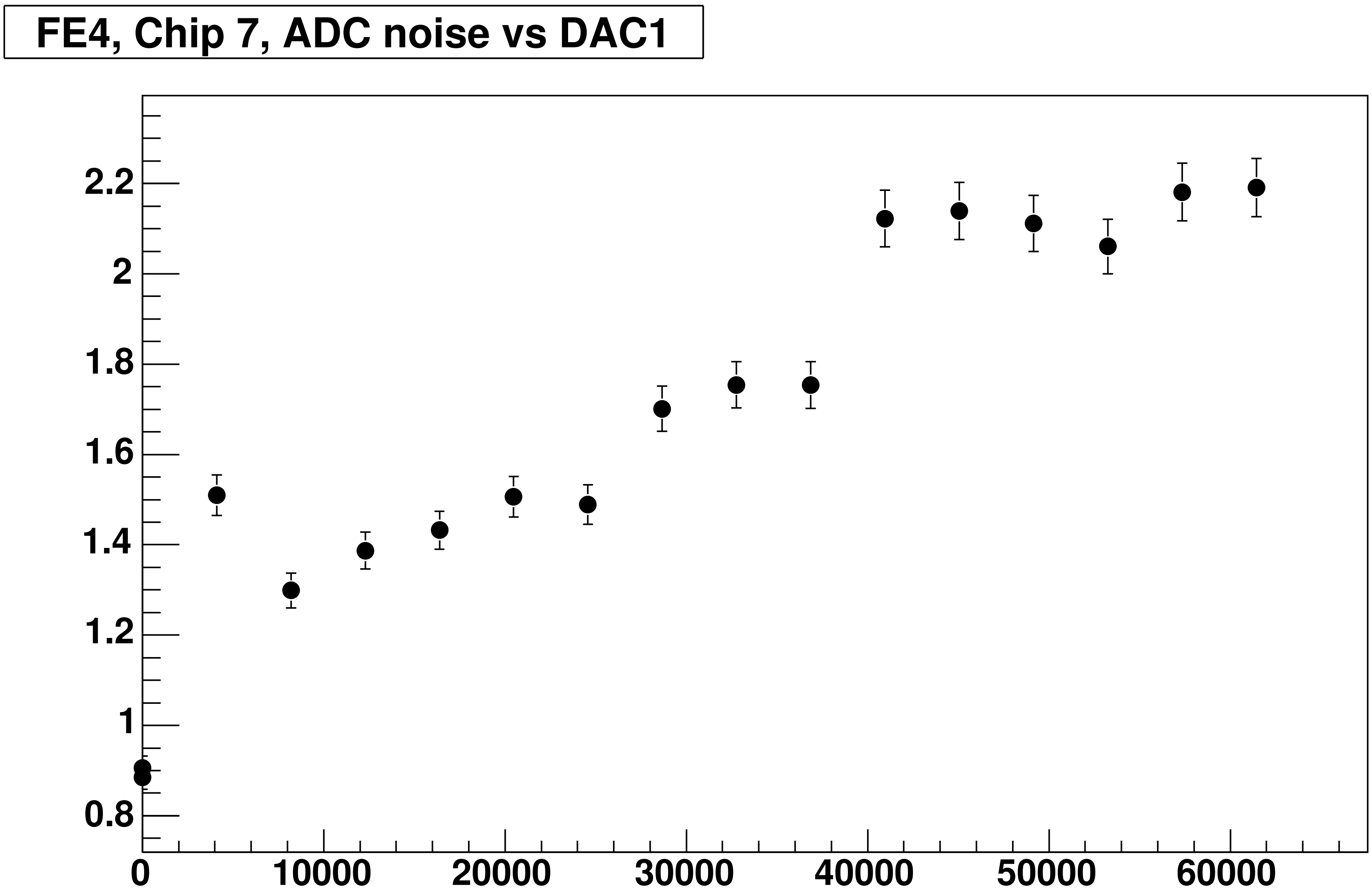

FE4, Chip 7, ADC mean vs DAC0
χ^2 / ndf 22.89 / 11
p0 -1.626 ± 0.02375
p1 2.171e-06 ± 6.364e-07
-1.4
-1.45
-1.5
-1.55
-1.6
-1.65
-1.7
0
10000
20000
30000
40000
50000
60000

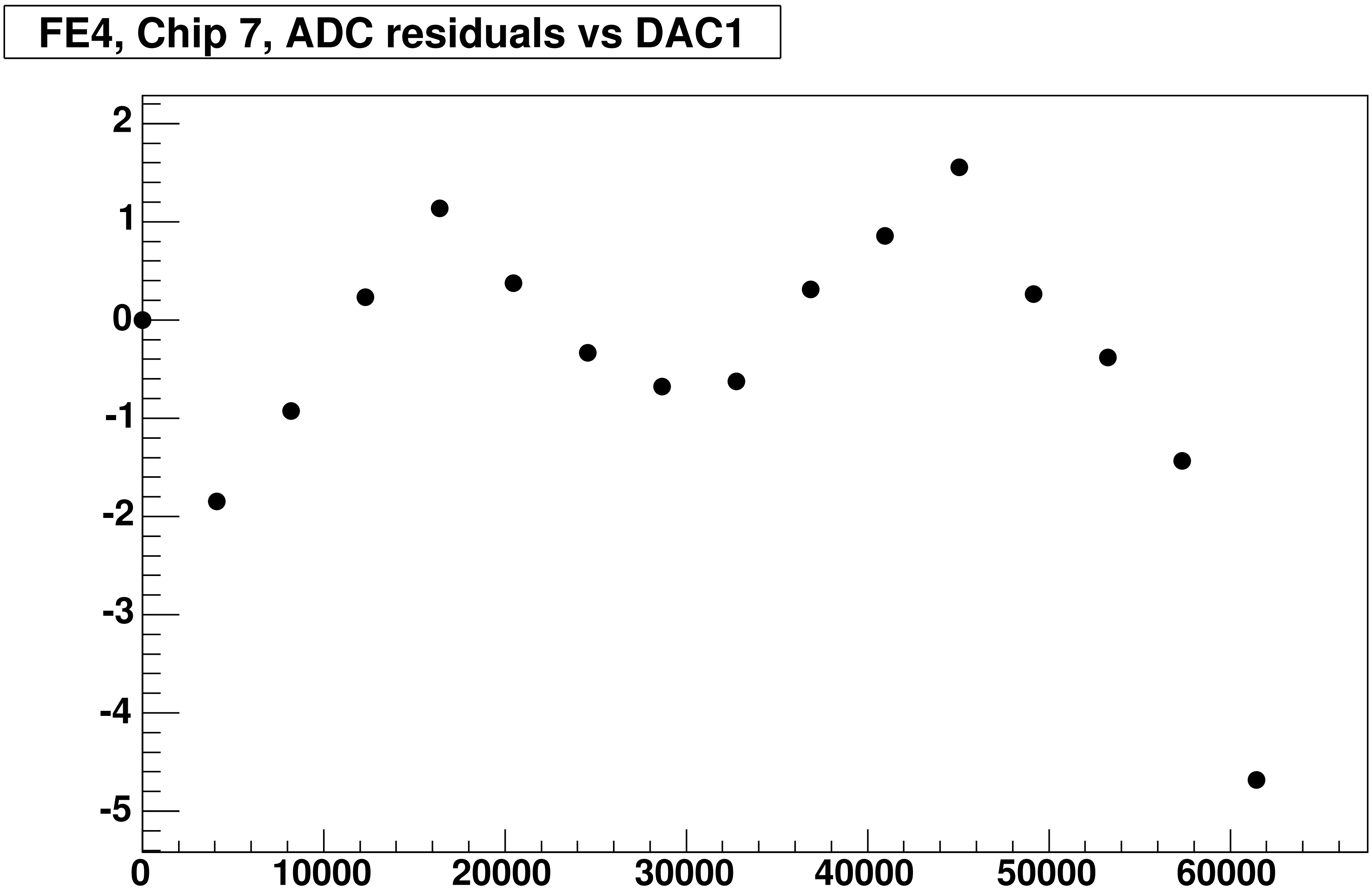

FE4, Chip 7, ADC noise vs DAC0
0.95
0.9
0.85
0.8
0.75
0
10000
20000
30000
40000
50000
60000

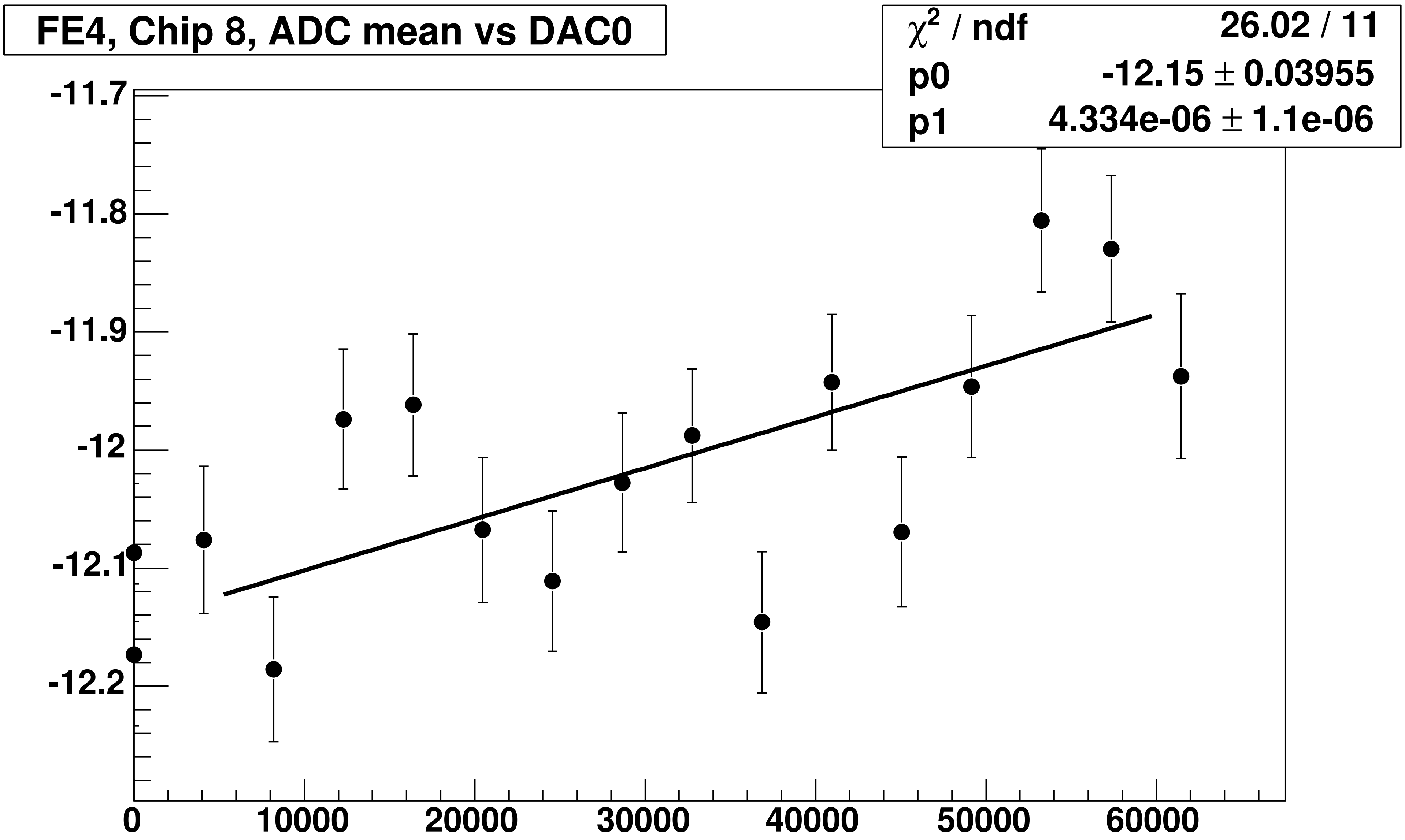


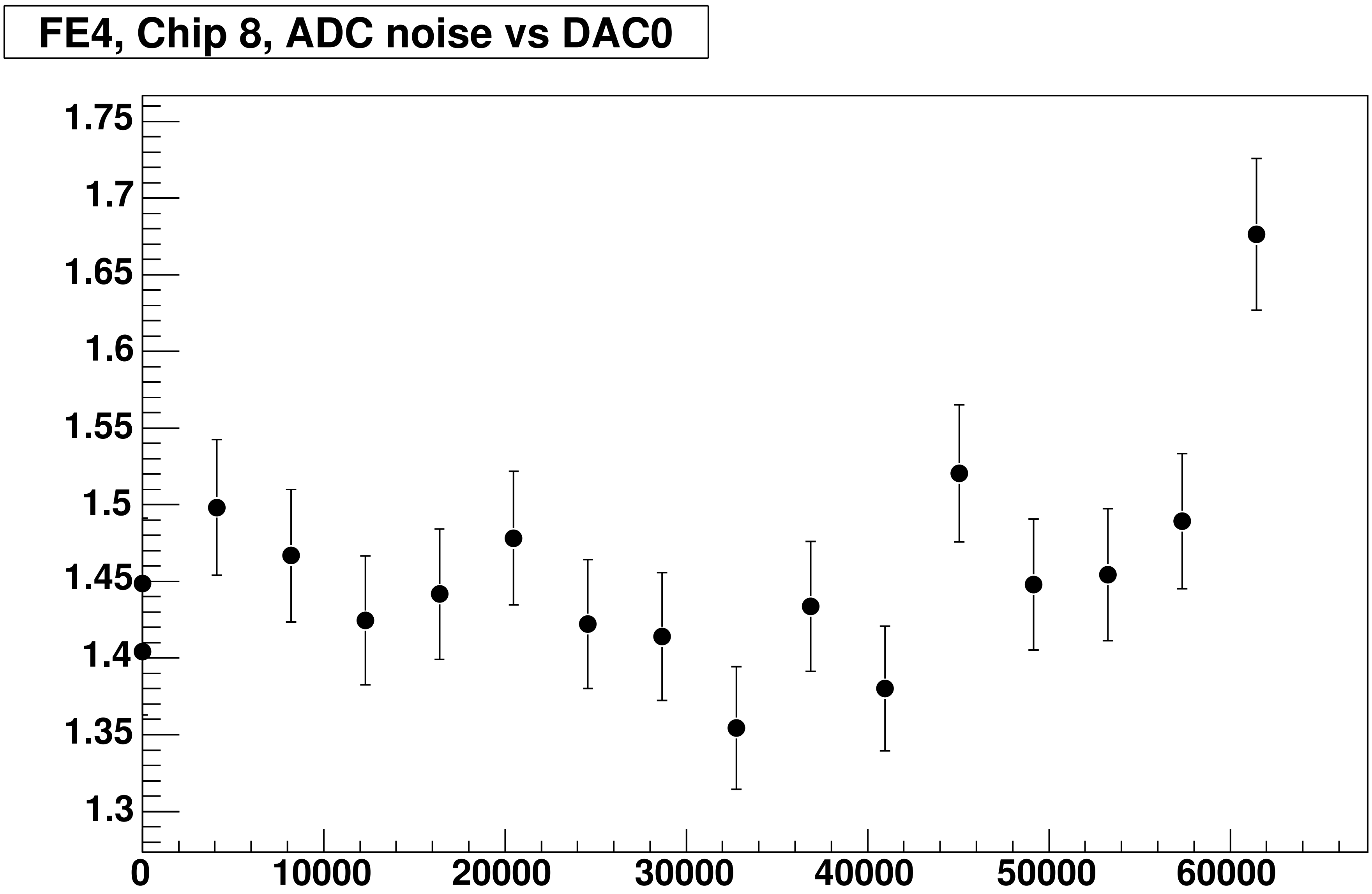
FE4, Chip 7, ADC residuals vs DAC0
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

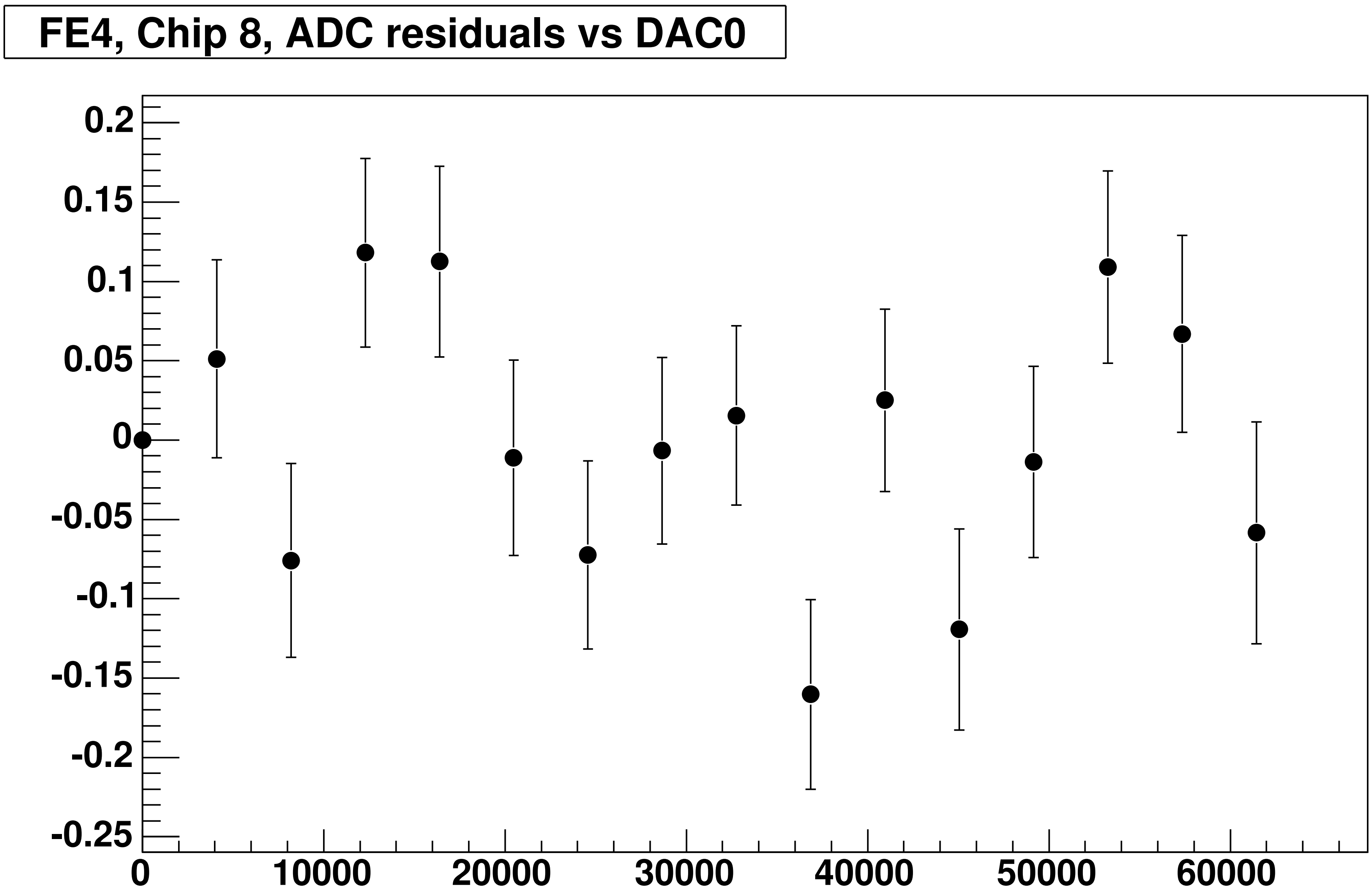

FE4, Chip 7, ADC mean vs DAC1
χ2 / ndf 1599 / 11
p0 -0.7317 ± 0.04078
p1 0.452 ± 1.304e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 7, ADC noise vs DAC1
0.8
1
1.2
1.4
1.6
1.8
2
2.2
0
10000
20000
30000
40000
50000
60000

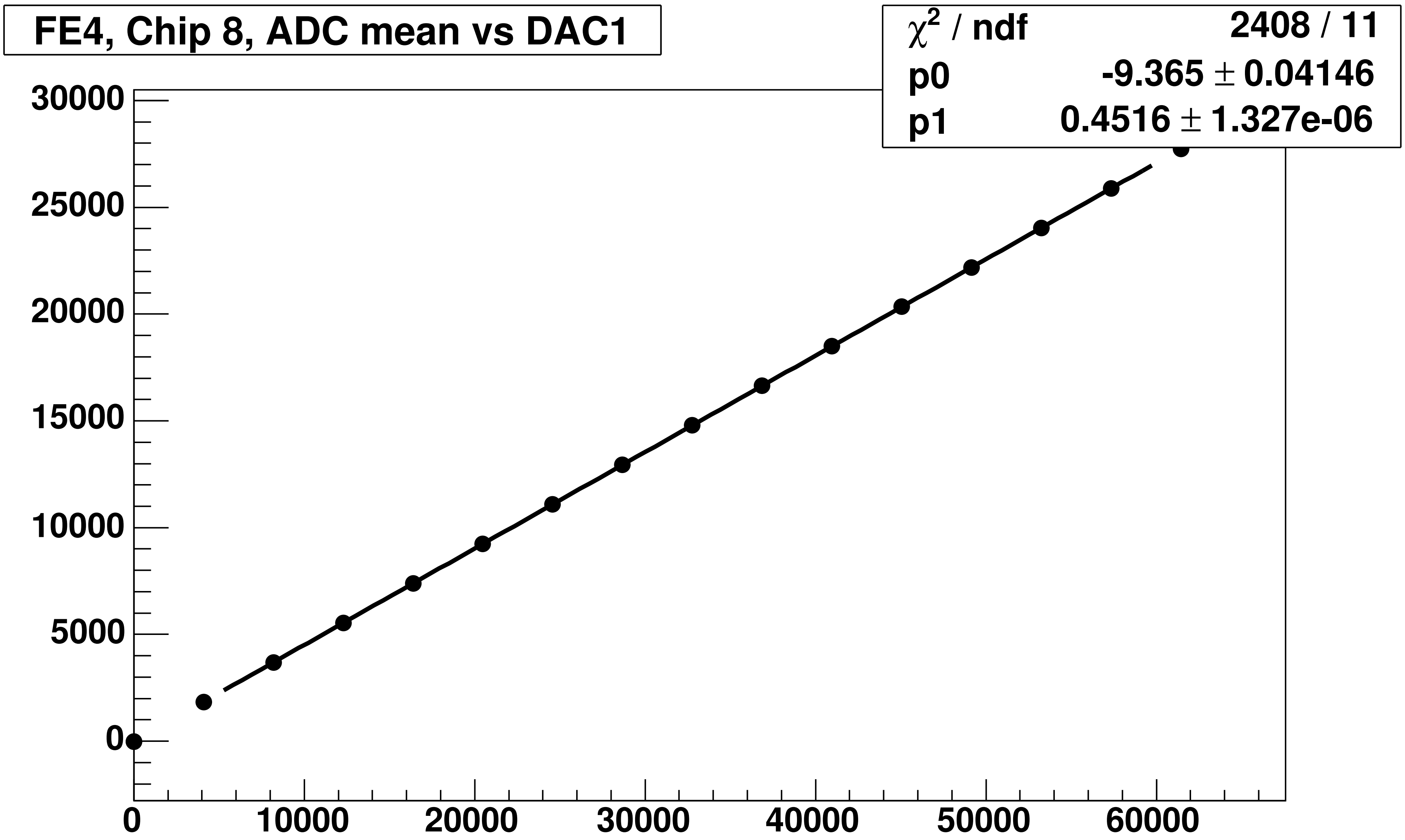

FE4, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE4, Chip 8, ADC mean vs DAC0
χ^2 / ndf 26.02 / 11
p0 -12.15 ± 0.03955
p1 4.334e-06 ± 1.1e-06
-11.7
-11.8
-11.9
-12
-12.1
-12.2
0
10000
20000
30000
40000
50000
60000

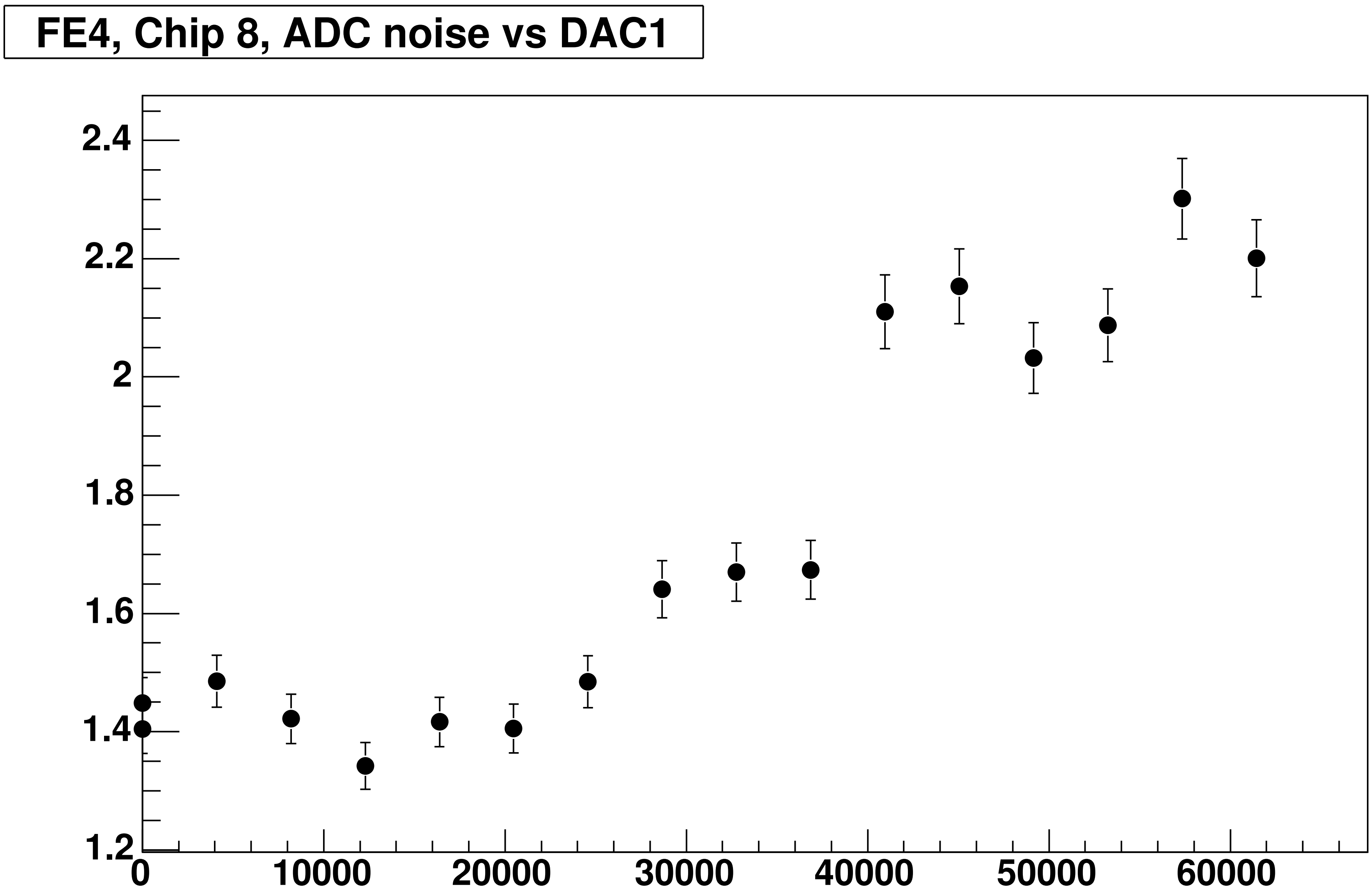

FE4, Chip 8, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



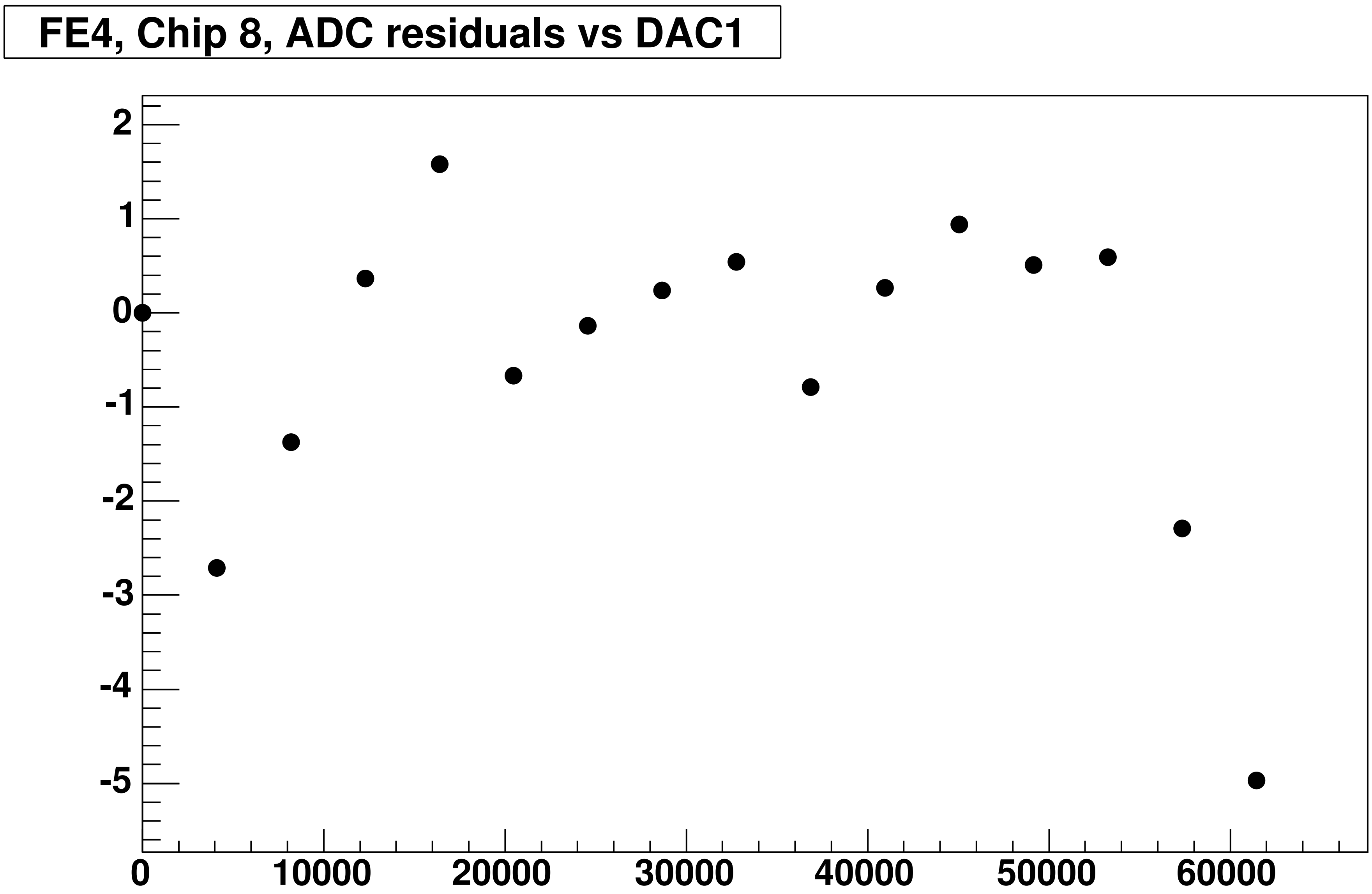
FE4, Chip 8, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

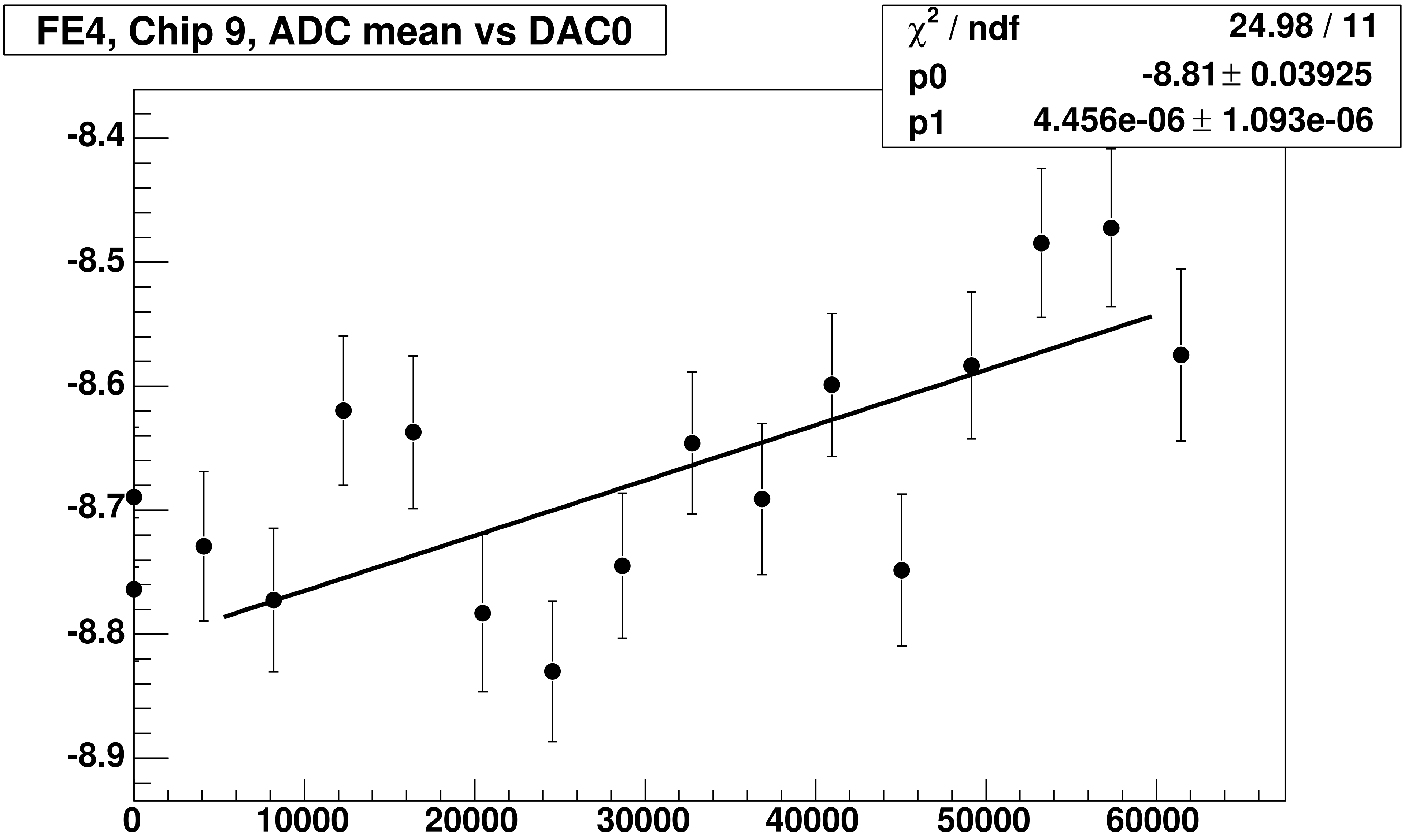


FE4, Chip 8, ADC mean vs DAC1
χ^2 / ndf 2408 / 11
p0 -9.365 ± 0.04146
p1 0.4516 ± 1.327e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

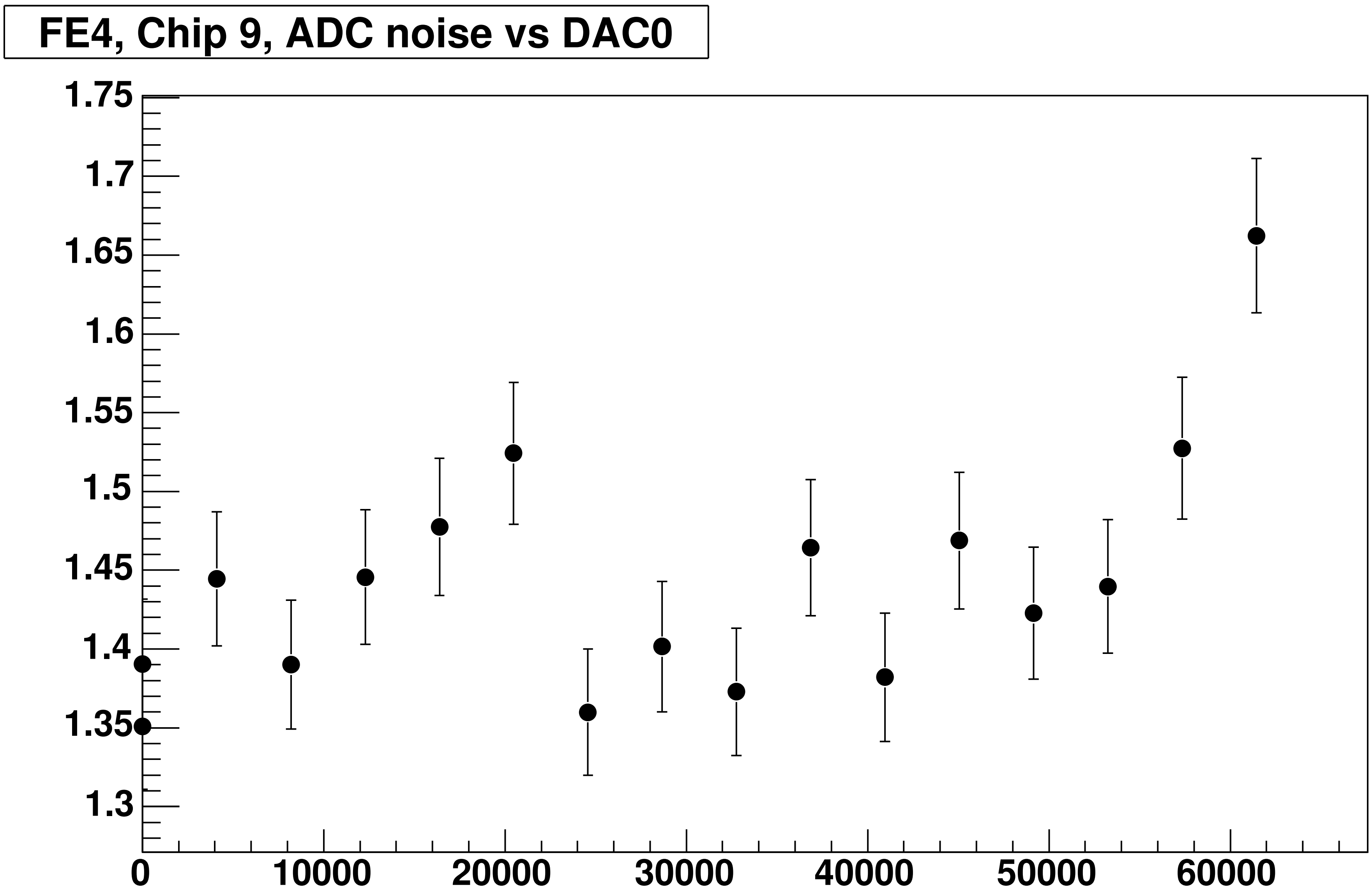


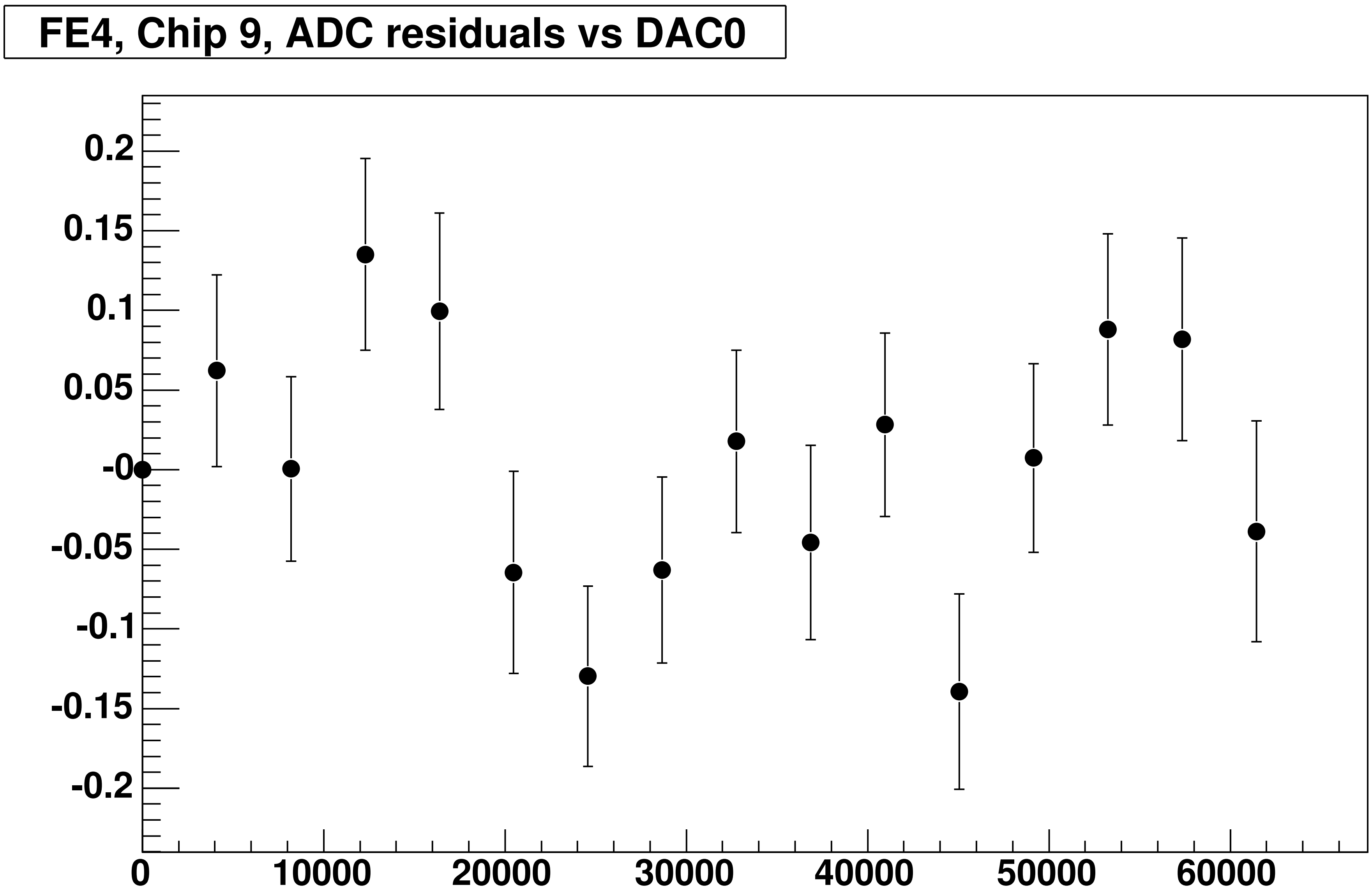
FE4, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

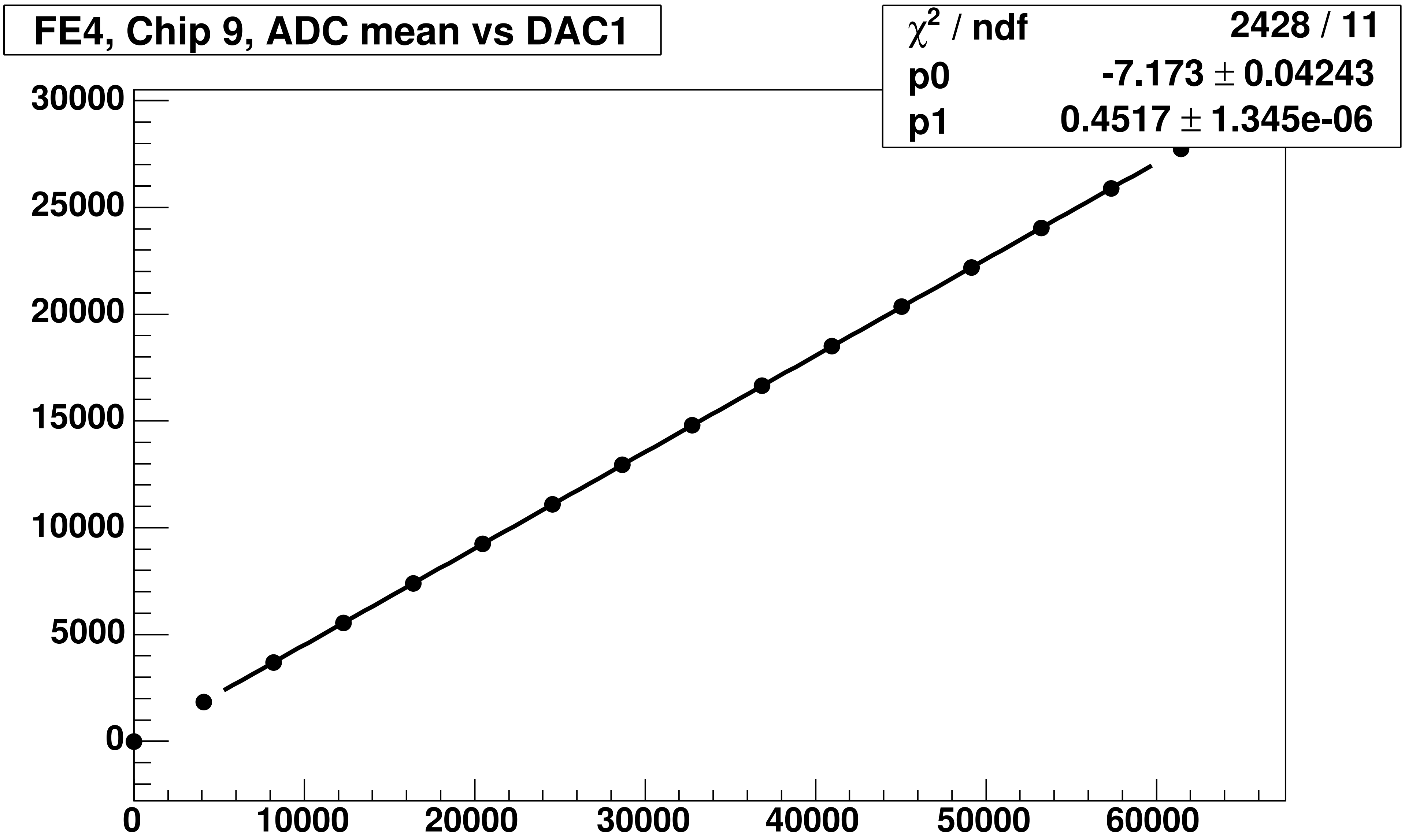


FE4, Chip 9, ADC mean vs DAC0
χ^2 / ndf 24.98 / 11
p0 -8.81 ± 0.03925
p1 4.456e-06 ± 1.093e-06
-8.4
-8.5
-8.6
-8.7
-8.8
-8.9
0
10000
20000
30000
40000
50000
60000

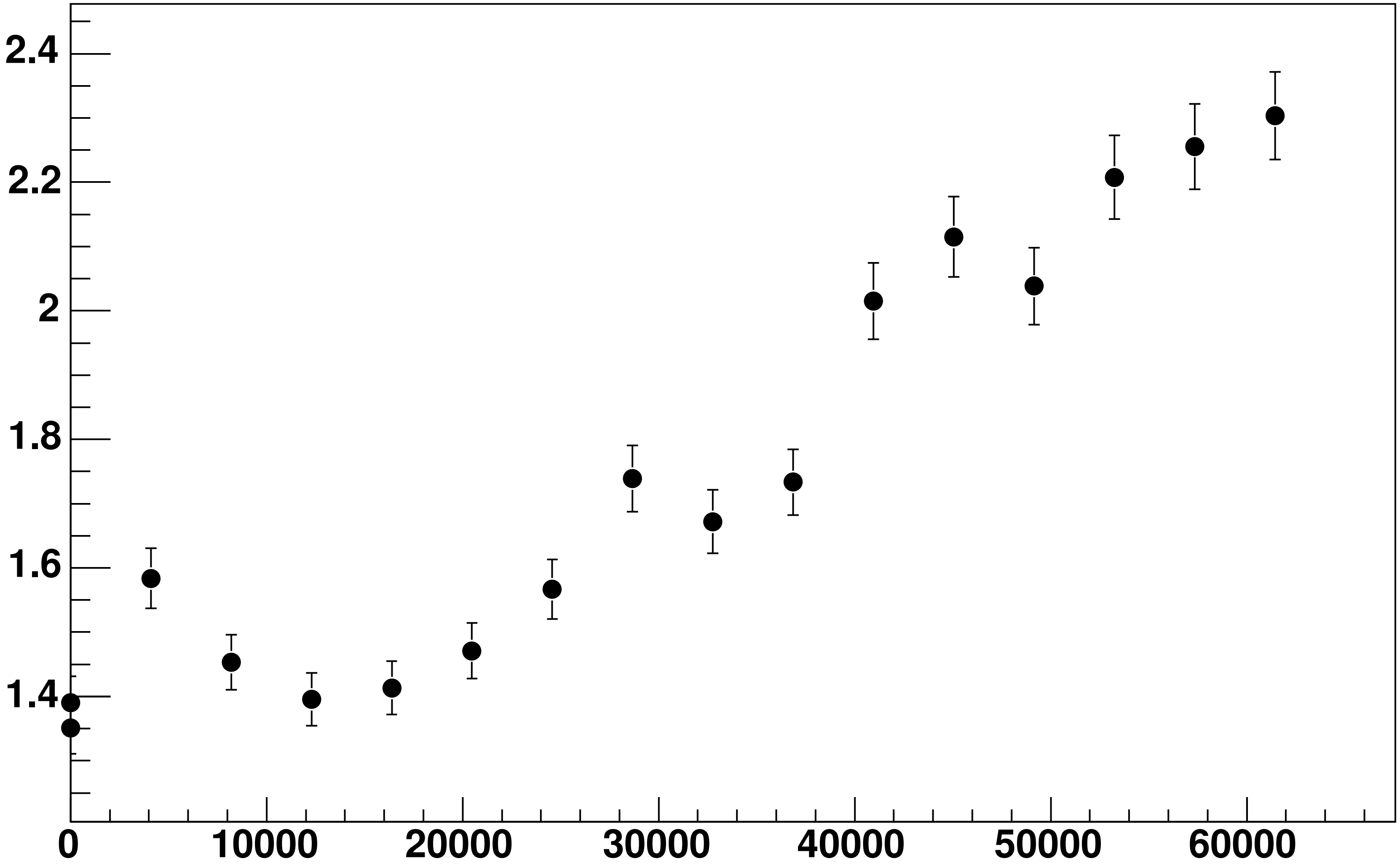

FE4, Chip 9, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

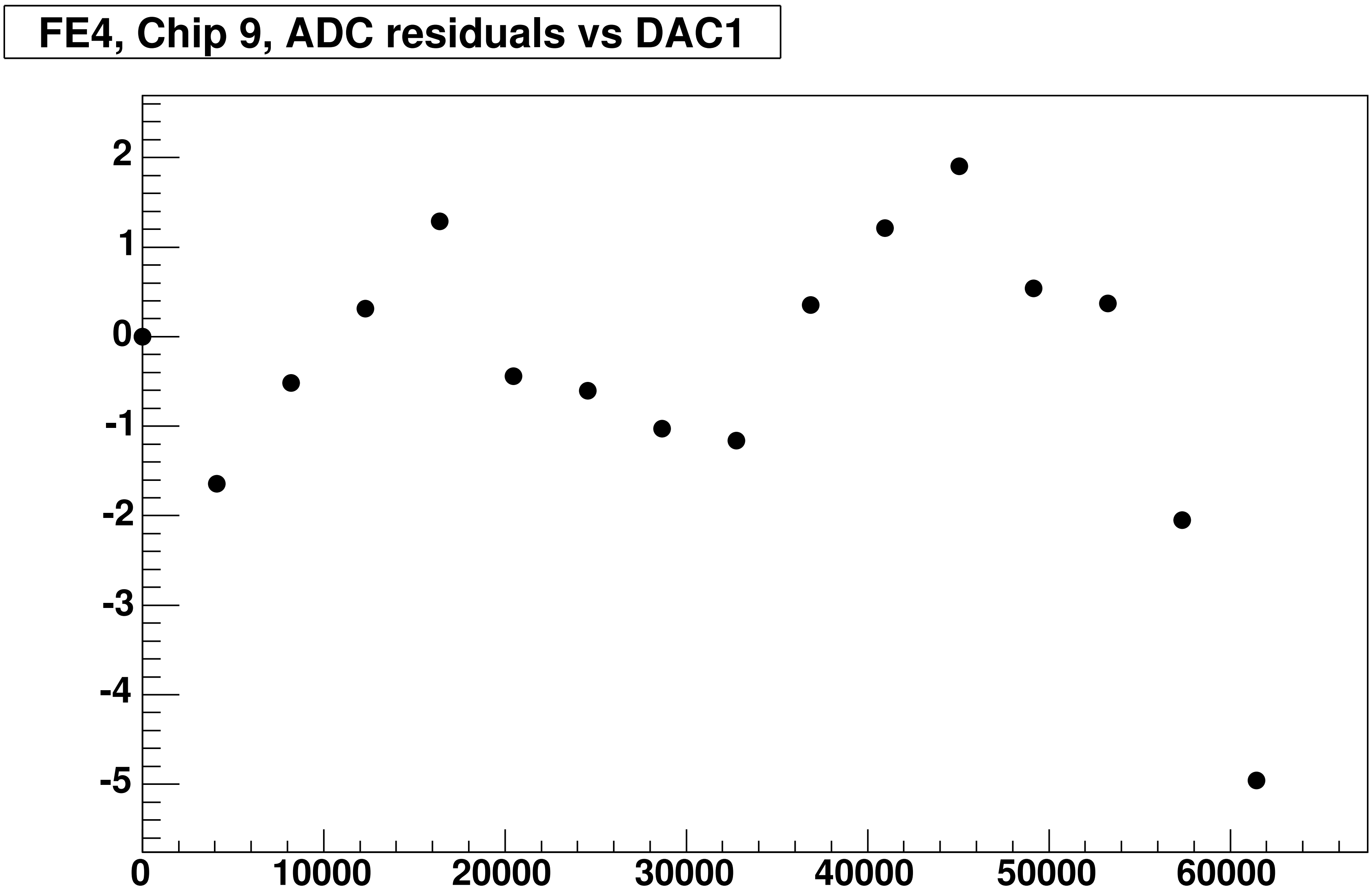


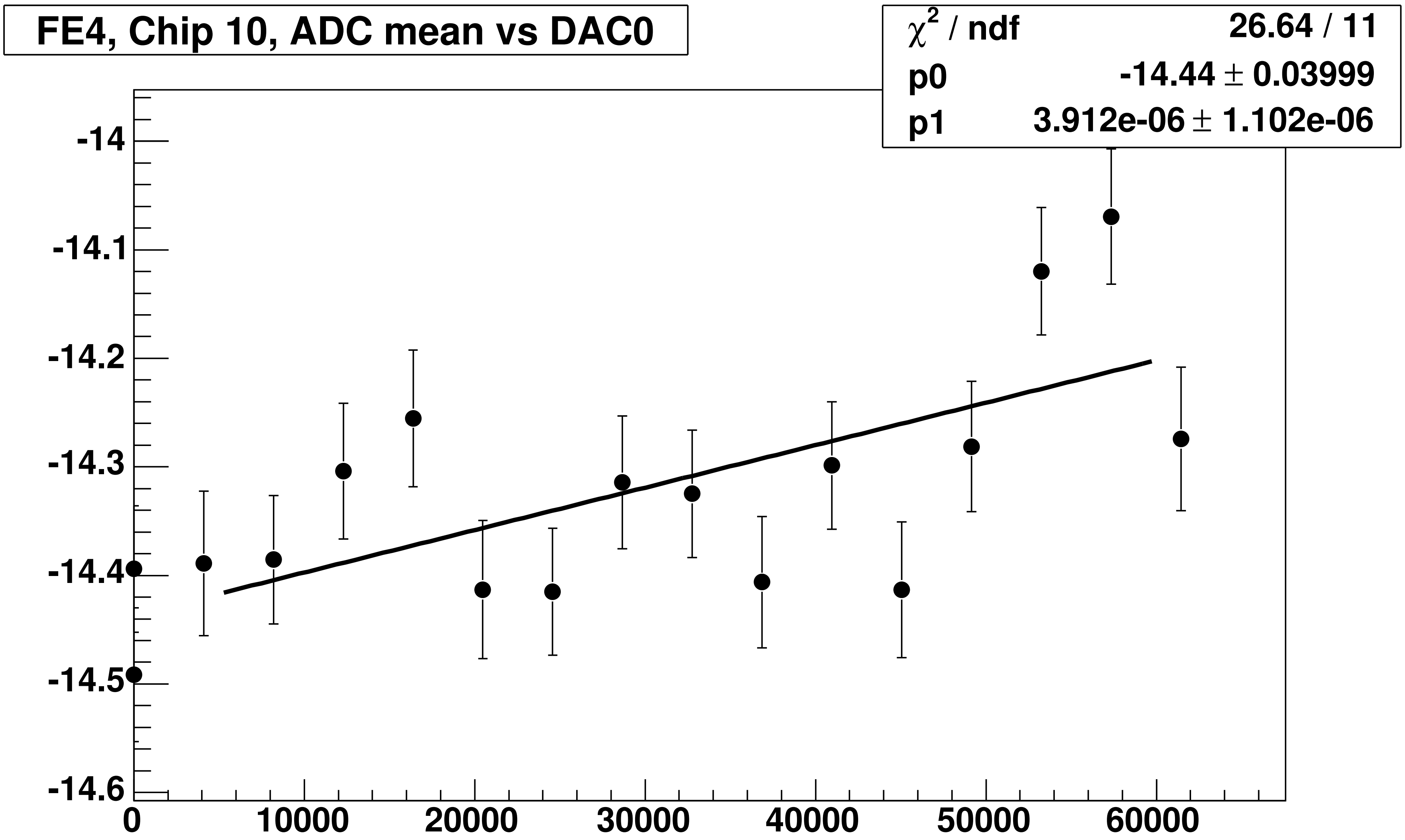
FE4, Chip 9, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

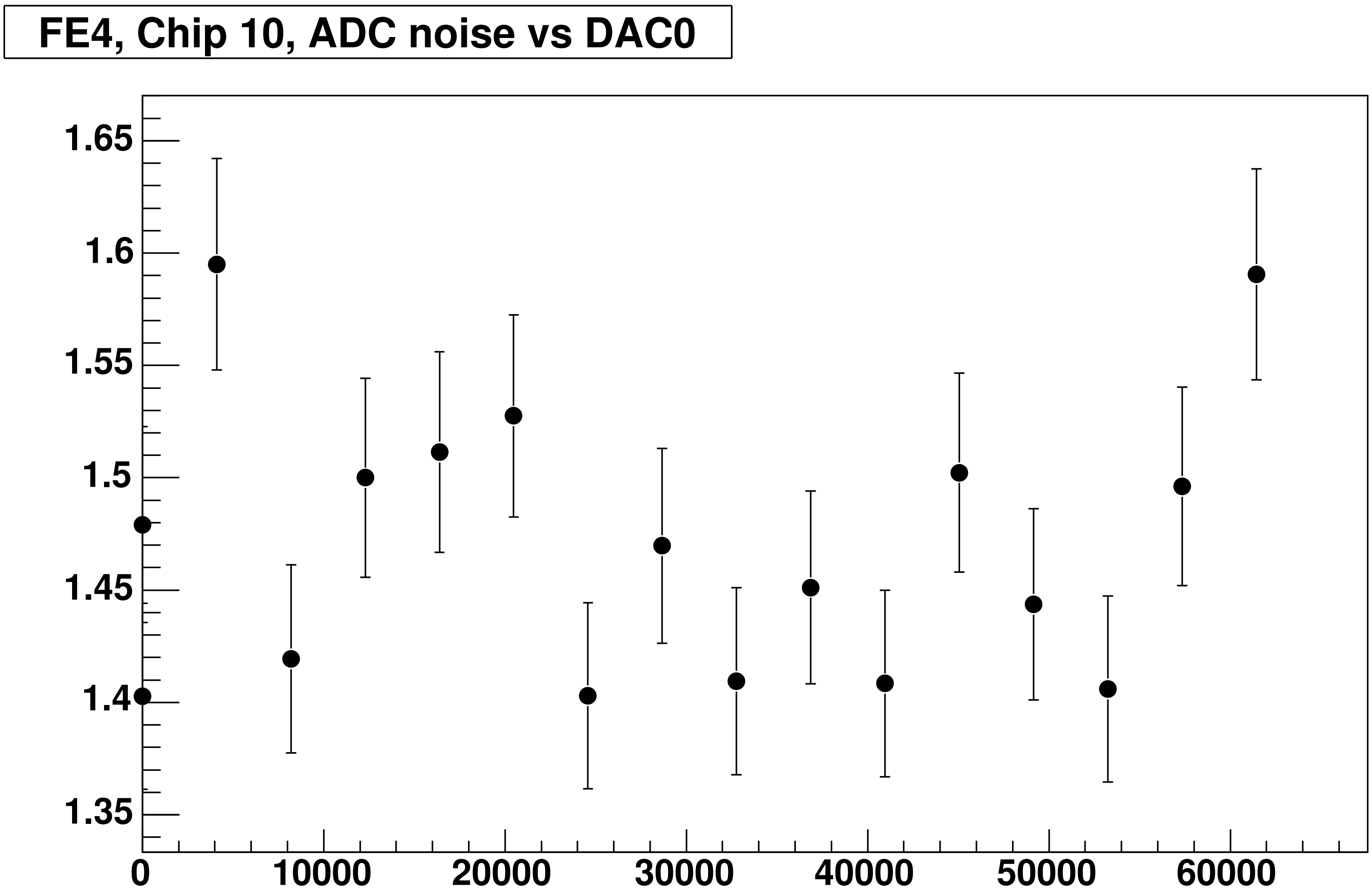

FE4, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2428 / 11
p0 -7.173 ± 0.04243
p1 0.4517 ± 1.345e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

FE4, Chip 9, ADC noise vs DAC1

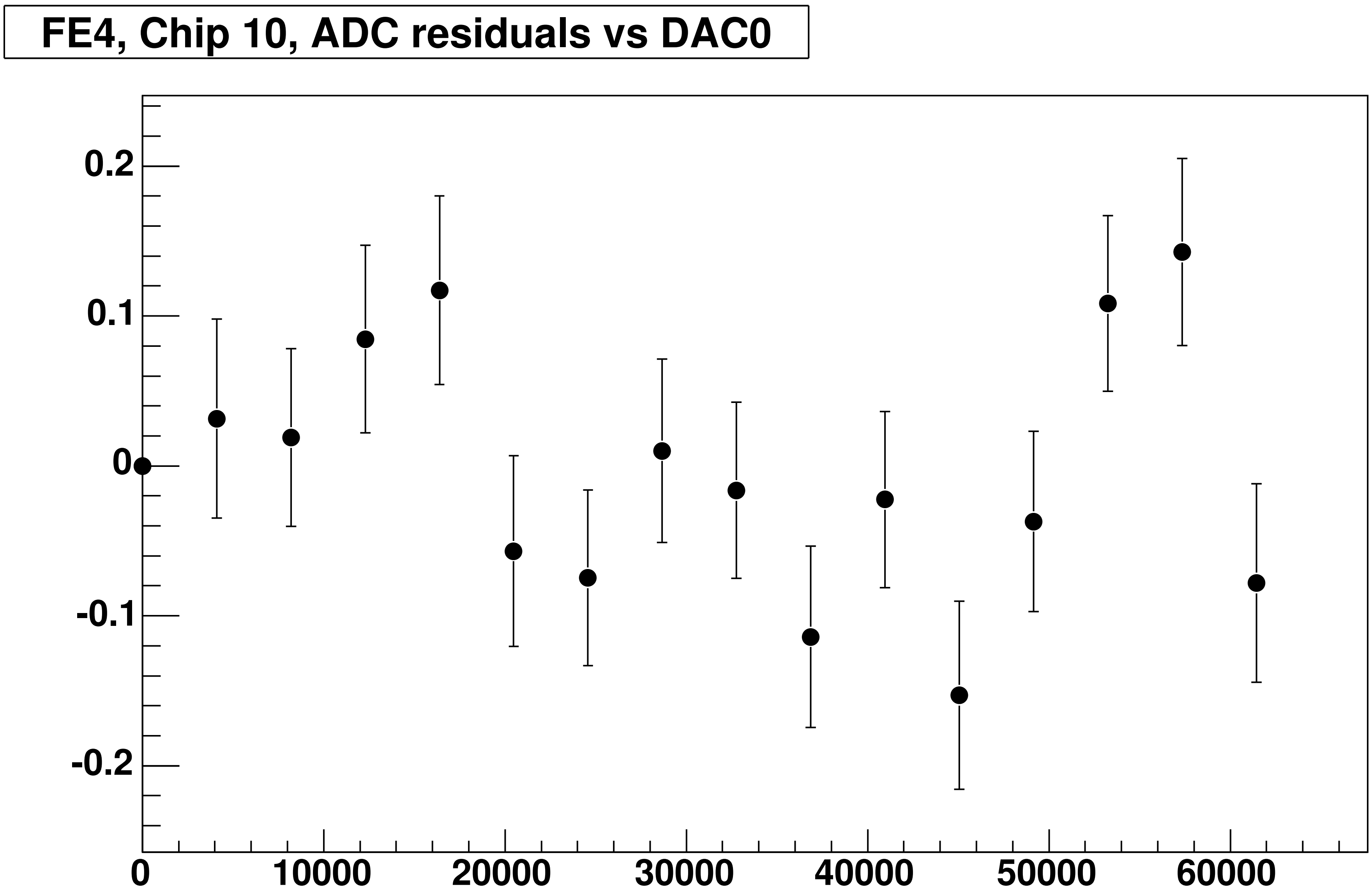


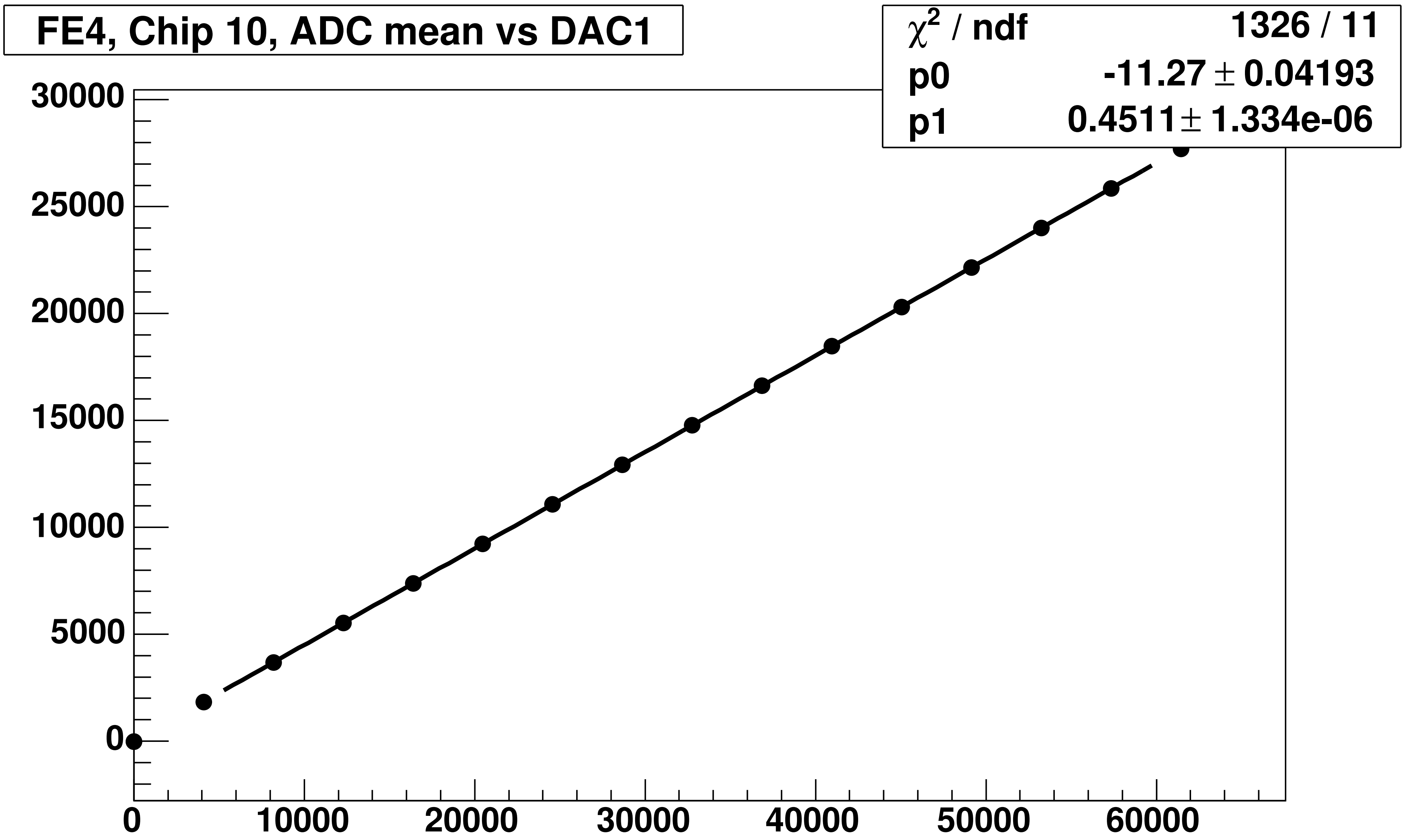

FE4, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

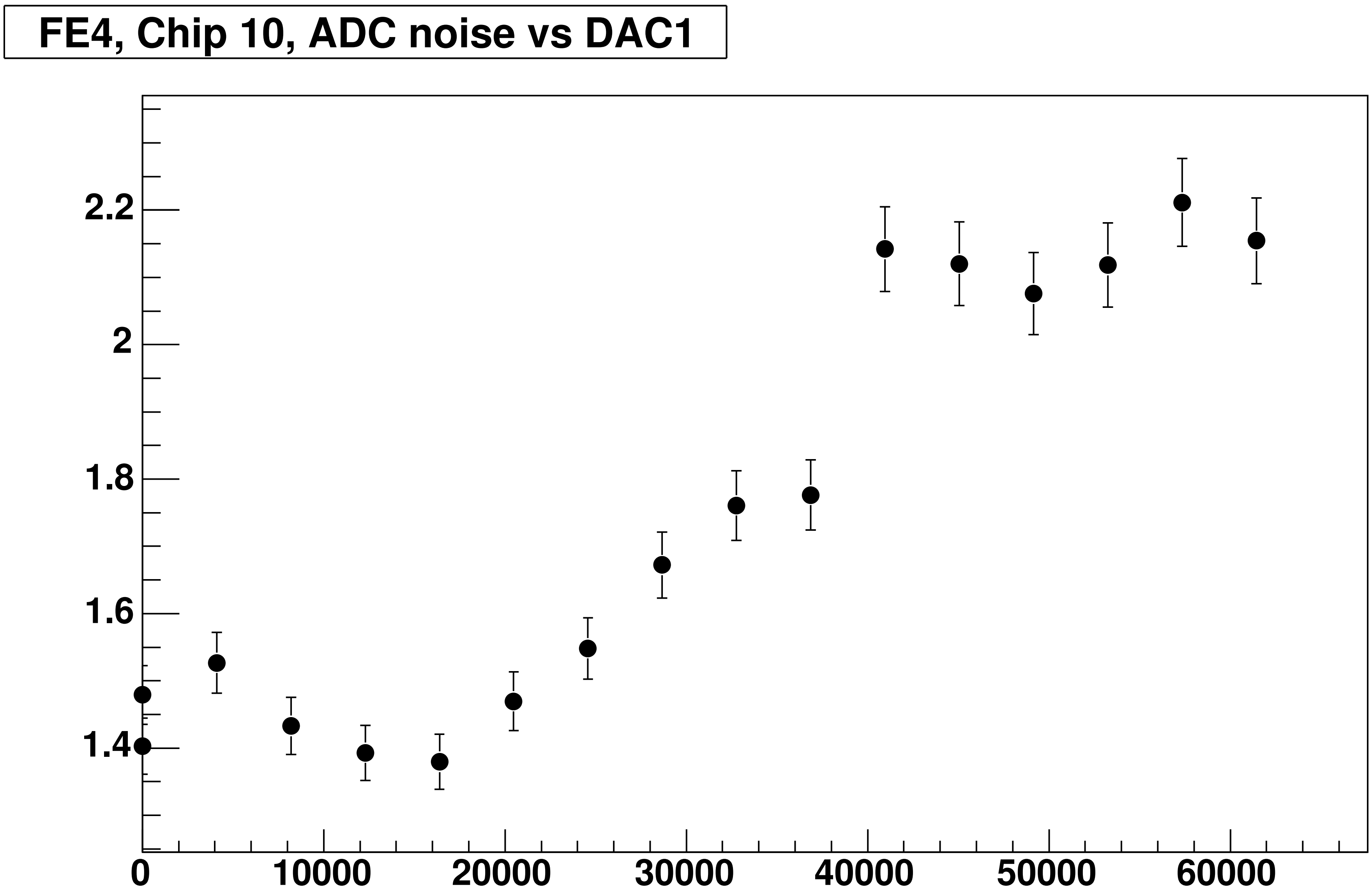

FE4, Chip 10, ADC mean vs DAC0
χ^2 / ndf 26.64 / 11
p0 -14.44 ± 0.03999
p1 3.912e-06 ± 1.102e-06
-14
-14.1
-14.2
-14.3
-14.4
-14.5
-14.6
0
10000
20000
30000
40000
50000
60000

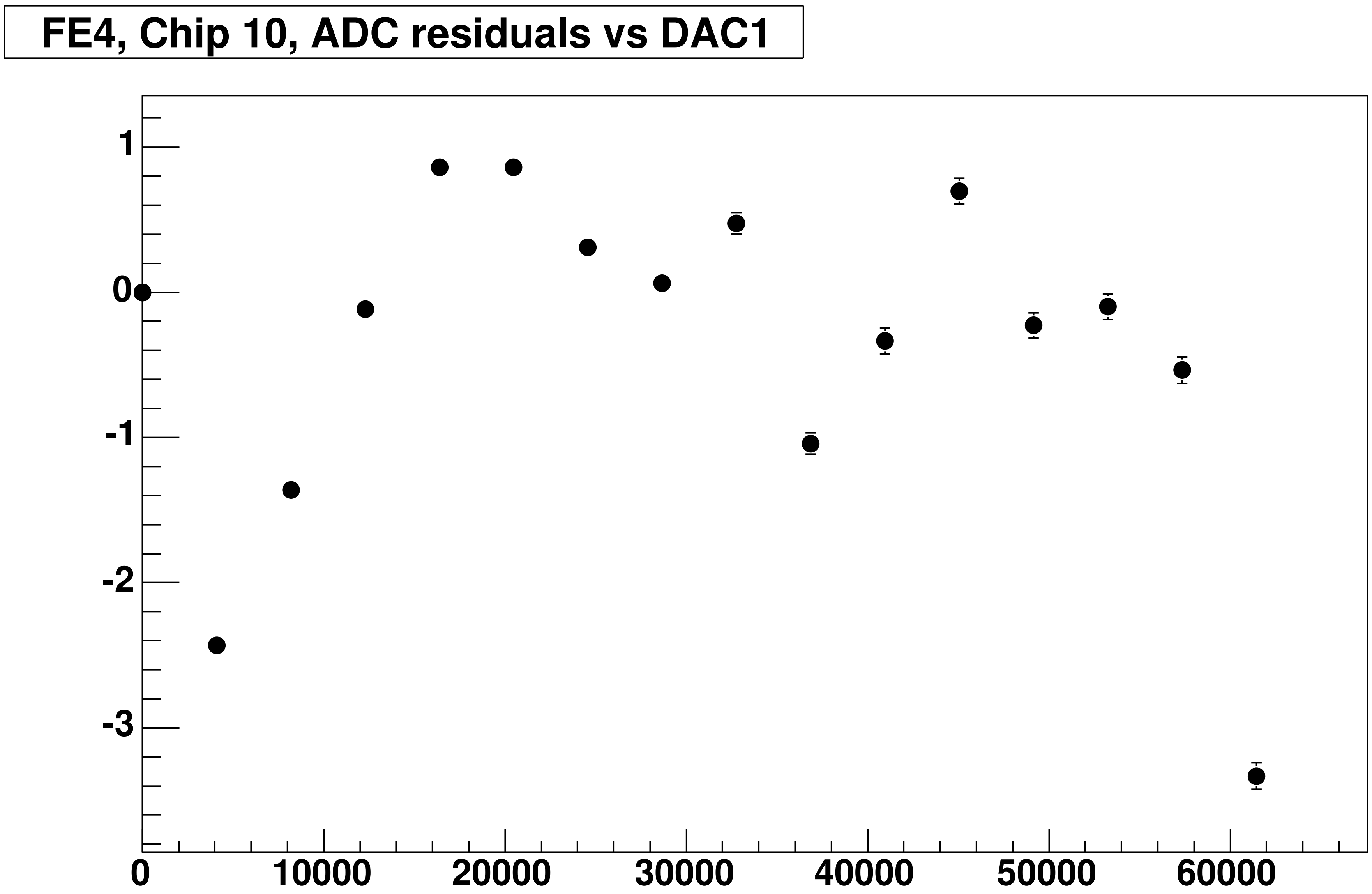


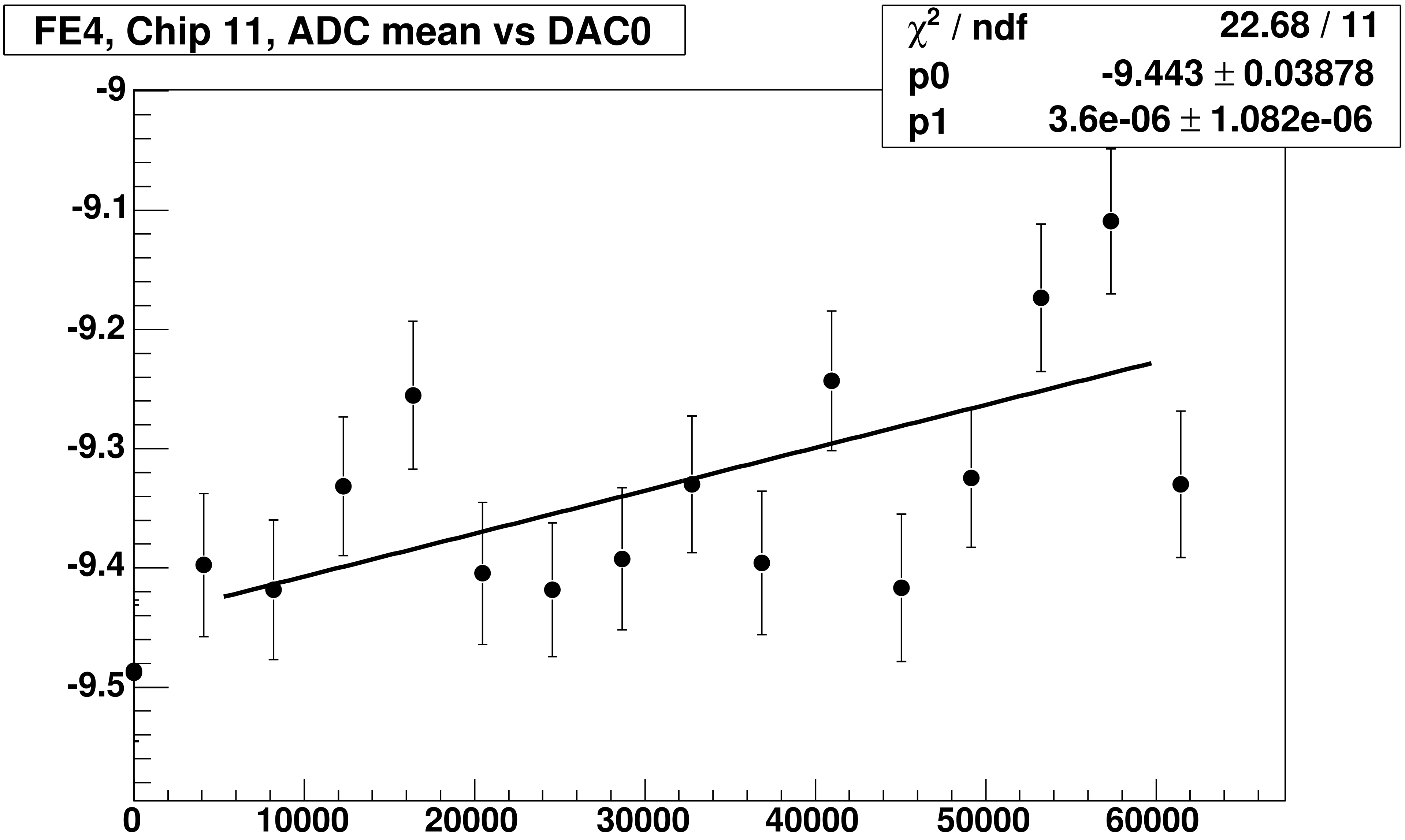
FE4, Chip 10, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

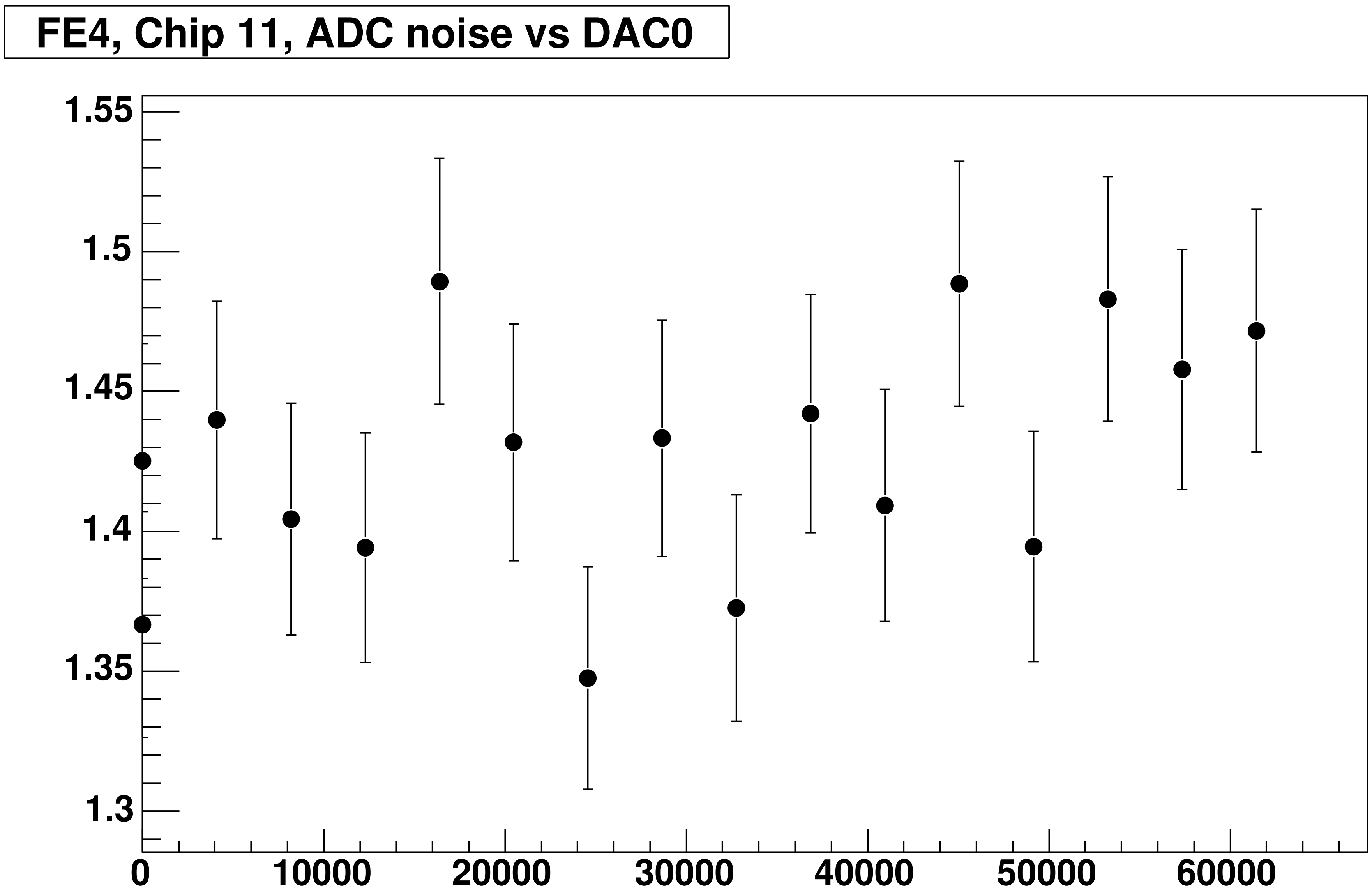

FE4, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

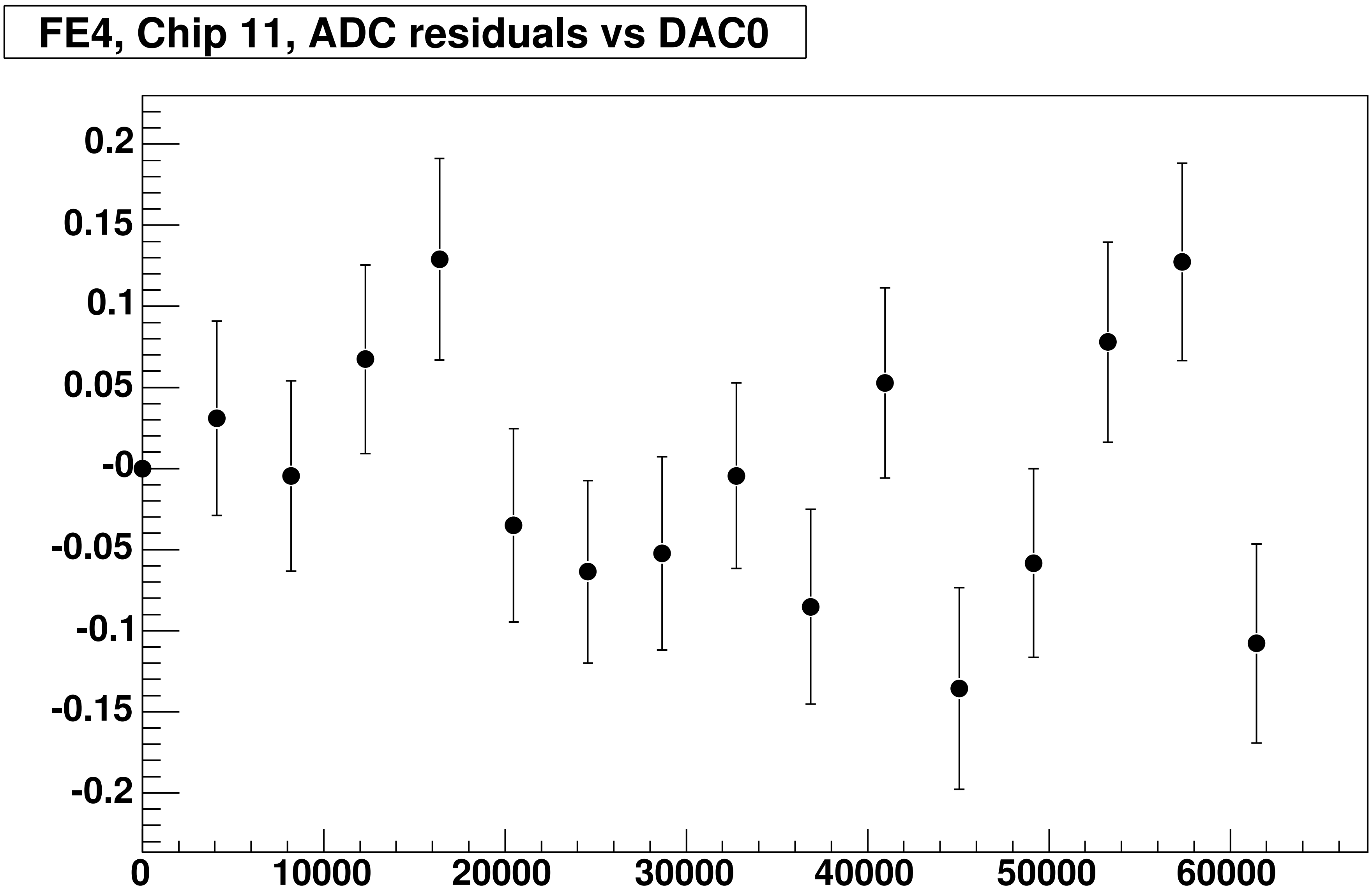

FE4, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1326 / 11
p0 -11.27 ± 0.04193
p1 0.4511 ± 1.334e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

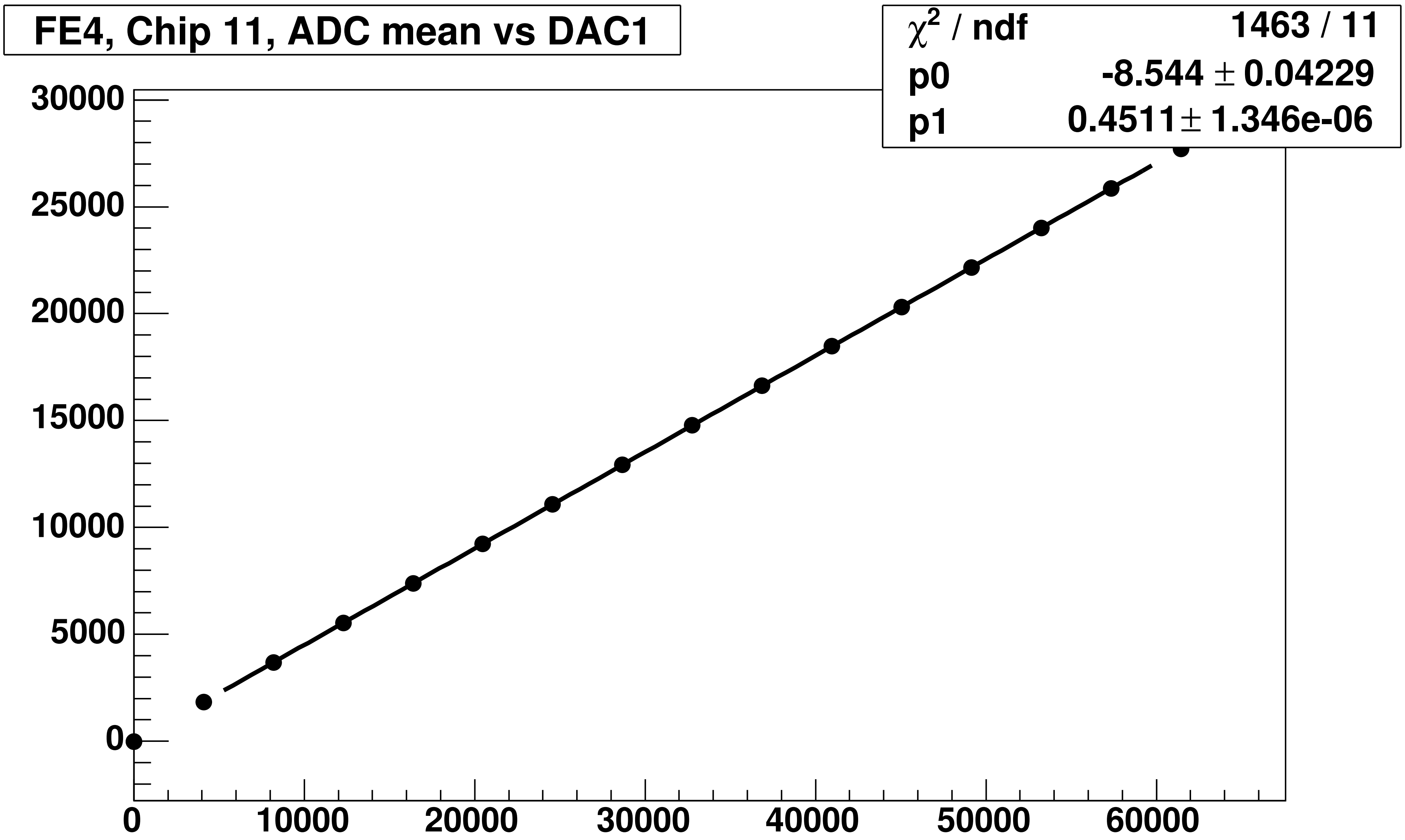

FE4, Chip 10, ADC noise vs DAC1
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

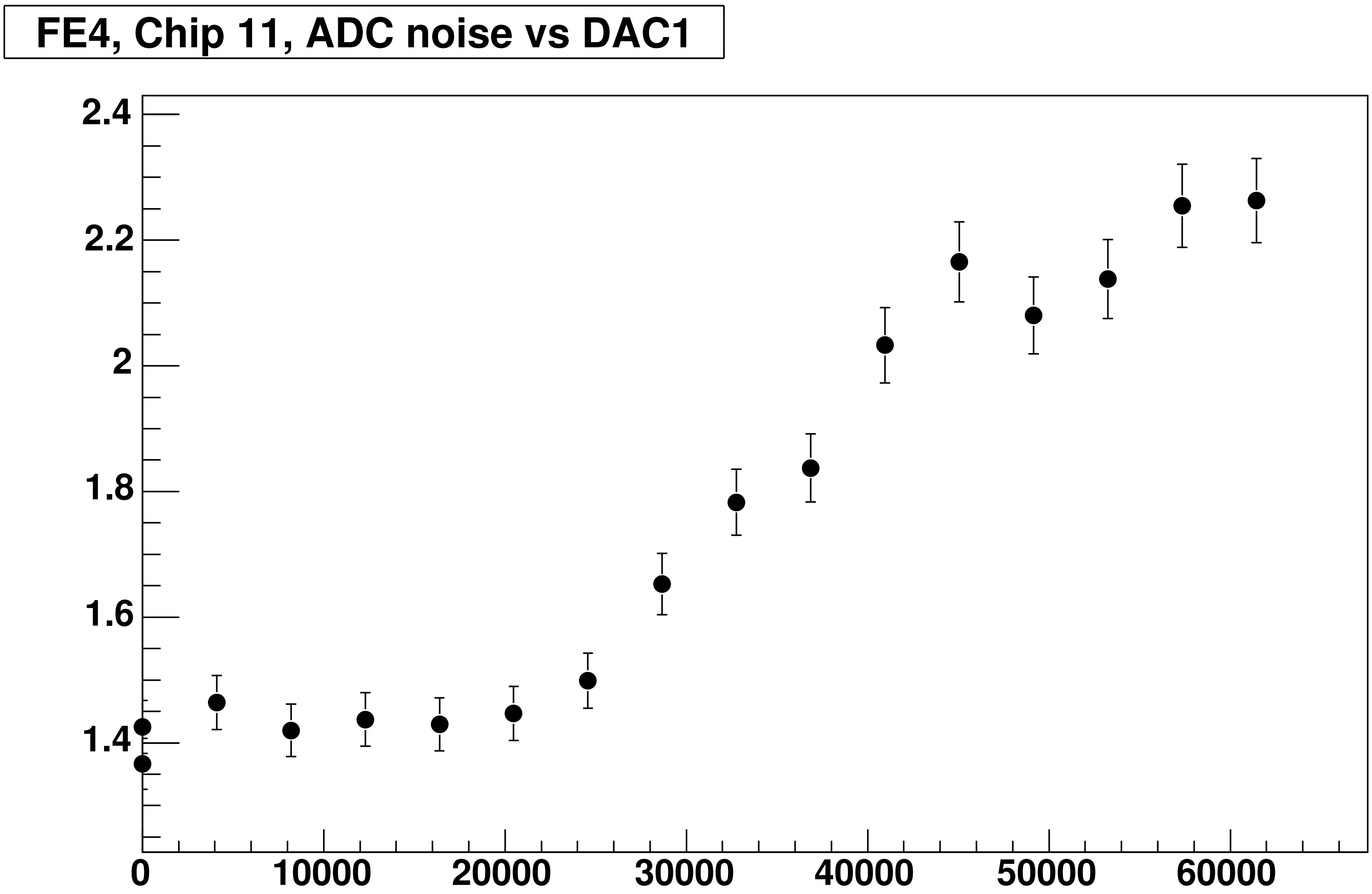

FE4, Chip 11, ADC mean vs DAC0
χ^2 / ndf 22.68 / 11
p0 -9.443 ± 0.03878
p1 3.6e-06 ± 1.082e-06
-9
-9.1
-9.2
-9.3
-9.4
-9.5
0
10000
20000
30000
40000
50000
60000


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

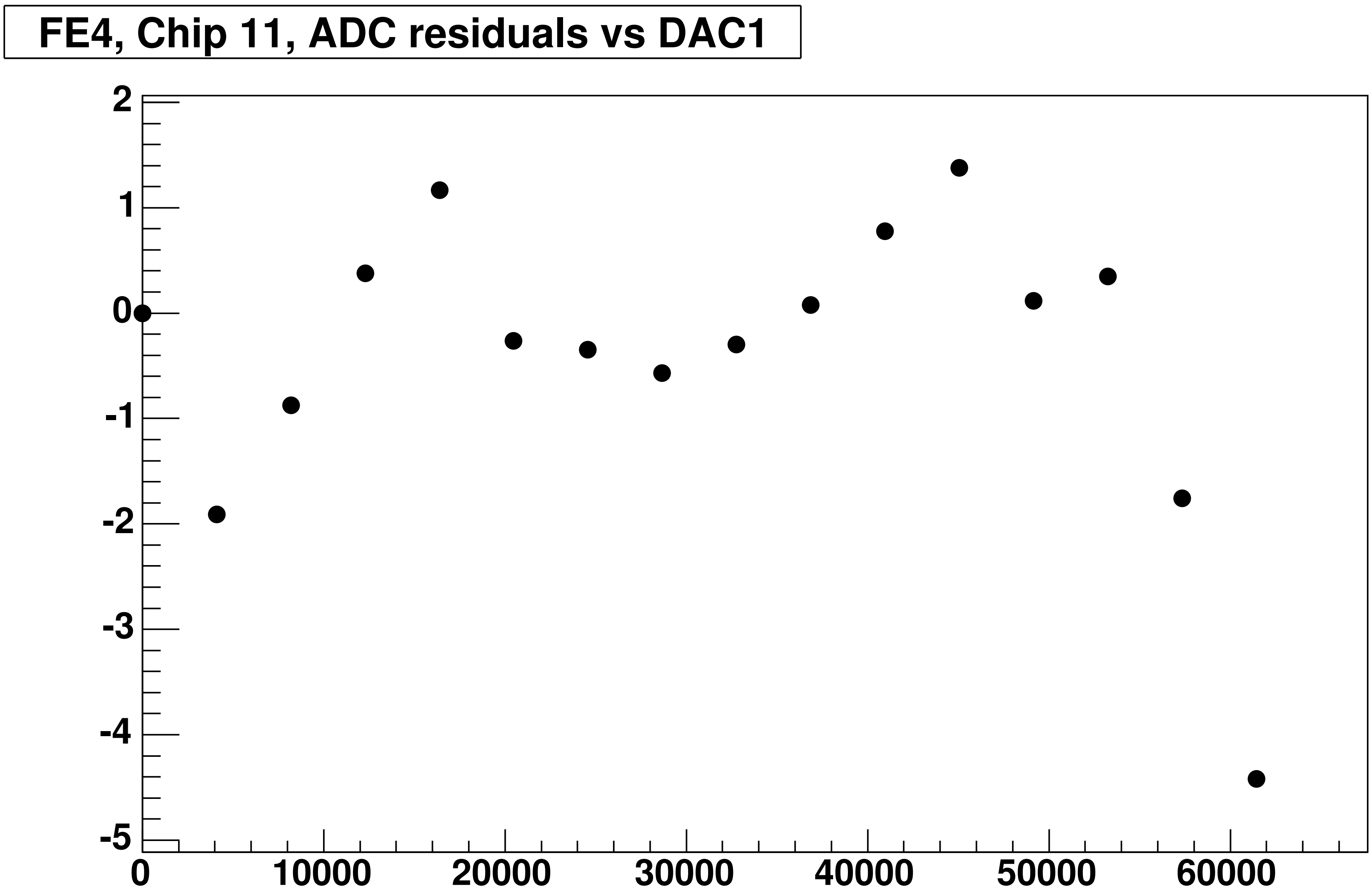

FE4, Chip 11, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

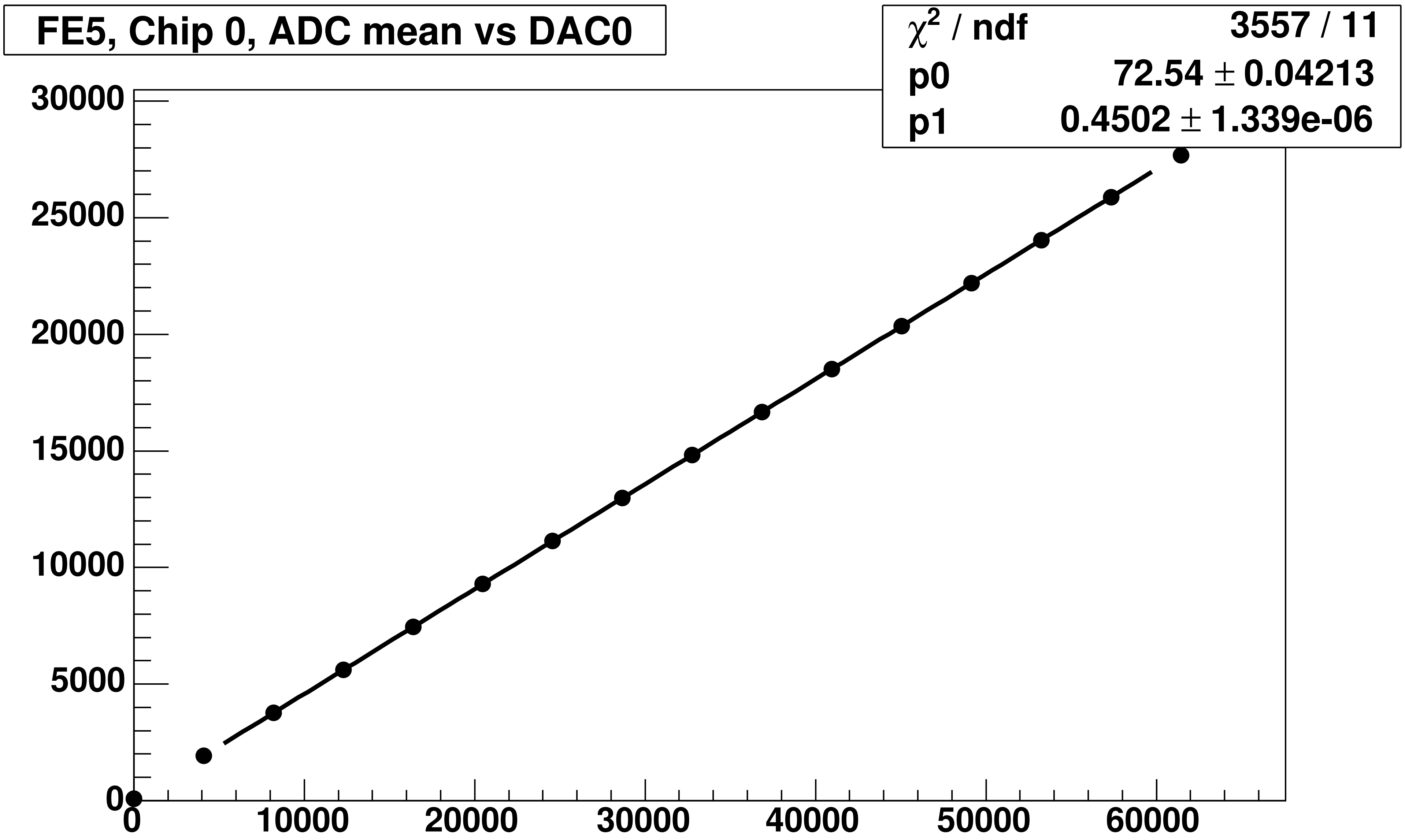


FE4, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1463 / 11
p0 -8.544 ± 0.04229
p1 0.4511 ± 1.346e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



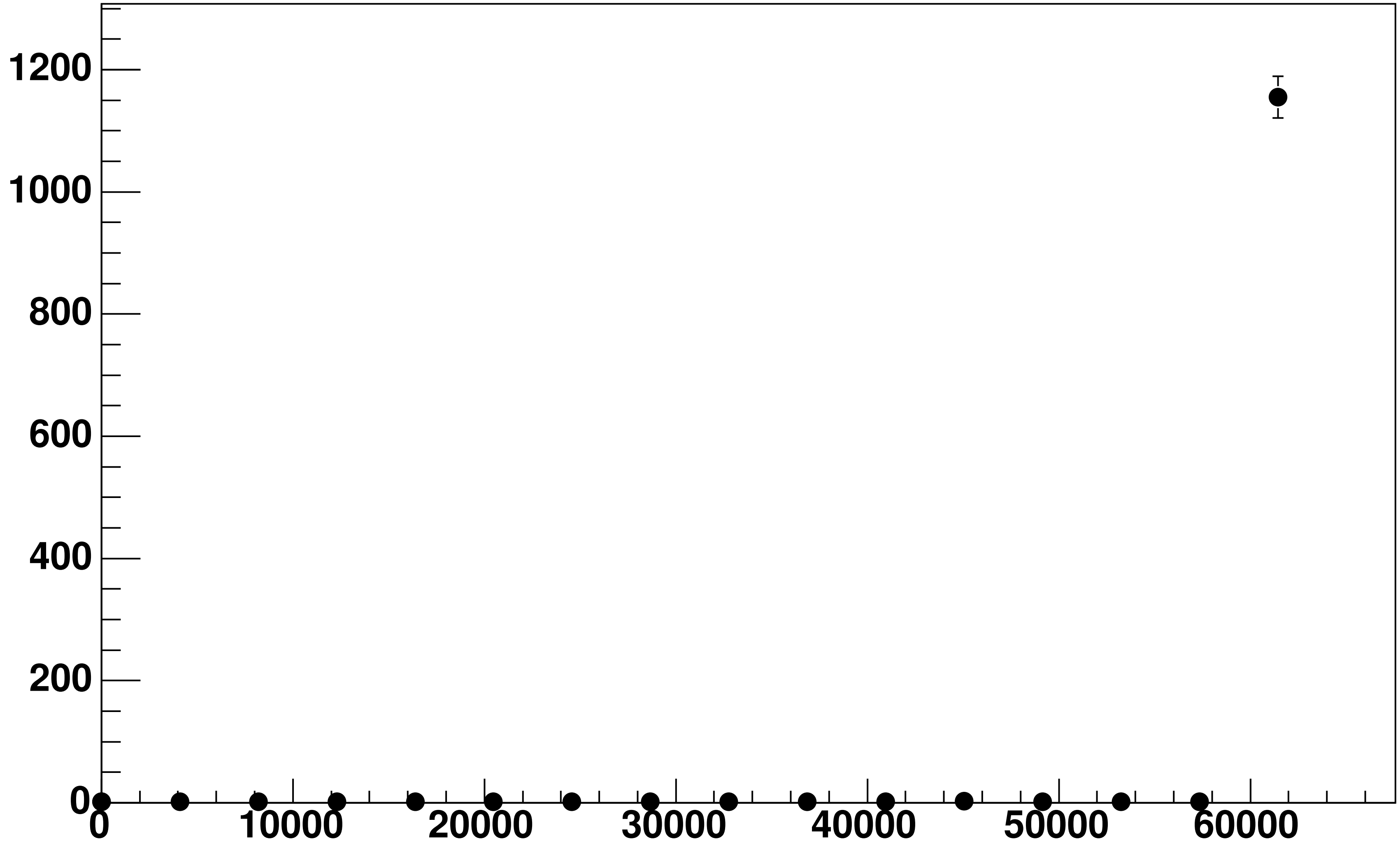
FE4, Chip 11, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

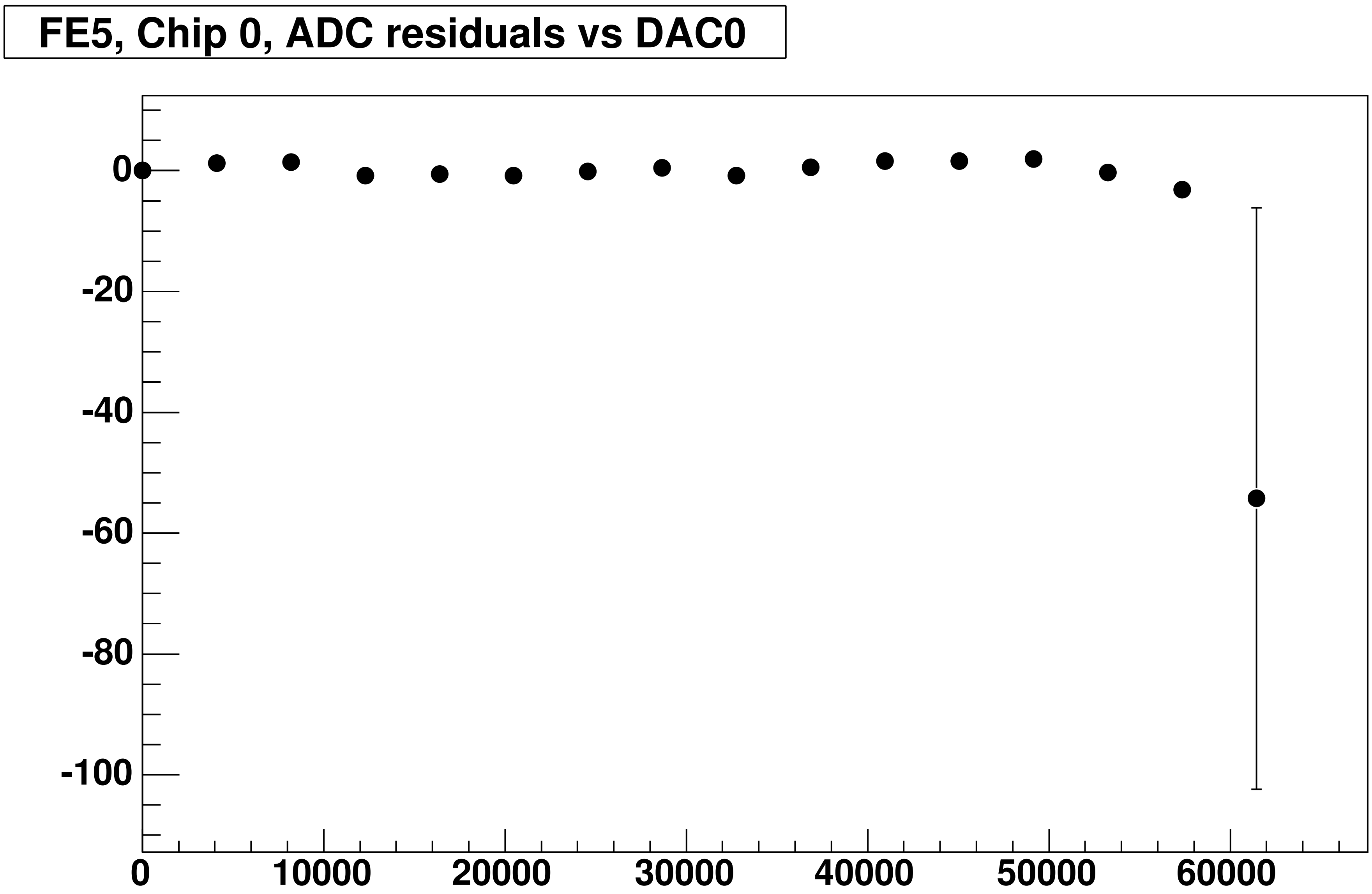

FE4, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



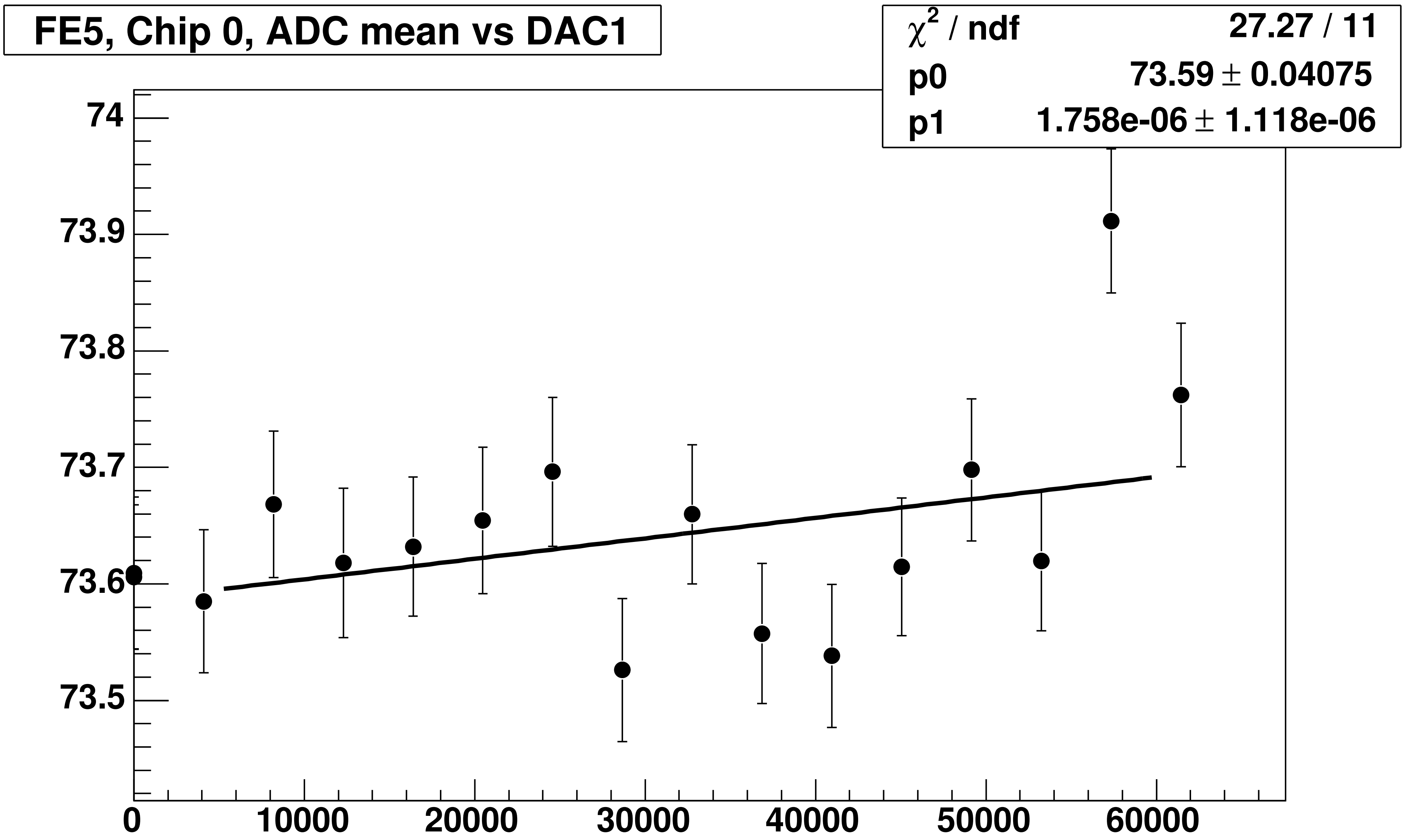
FE5, Chip 0, ADC mean vs DAC0
χ^2 / ndf 3557 / 11
p0 72.54 ± 0.04213
p1 0.4502 ± 1.339e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

FE5, Chip 0, ADC noise vs DAC0

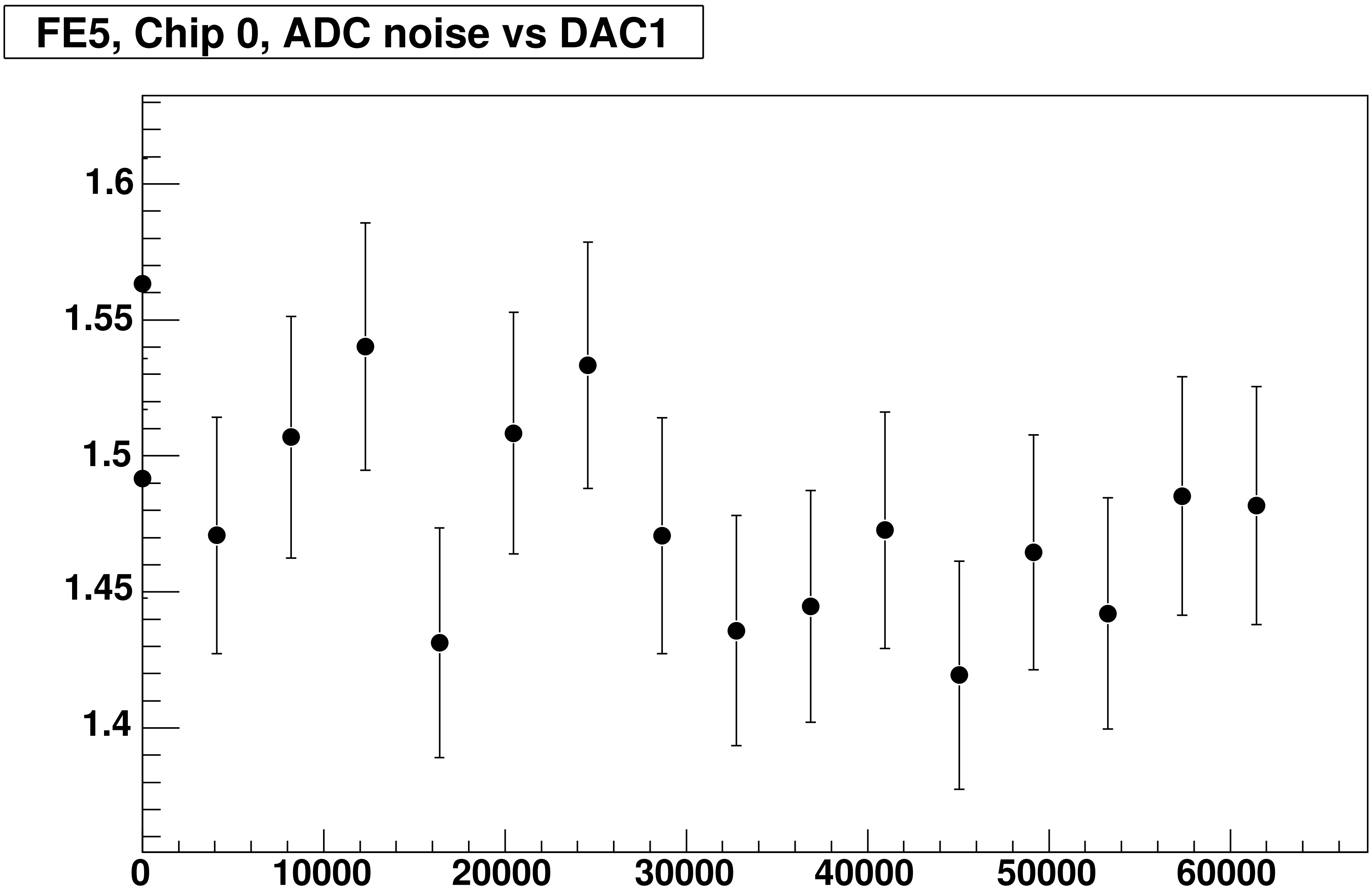


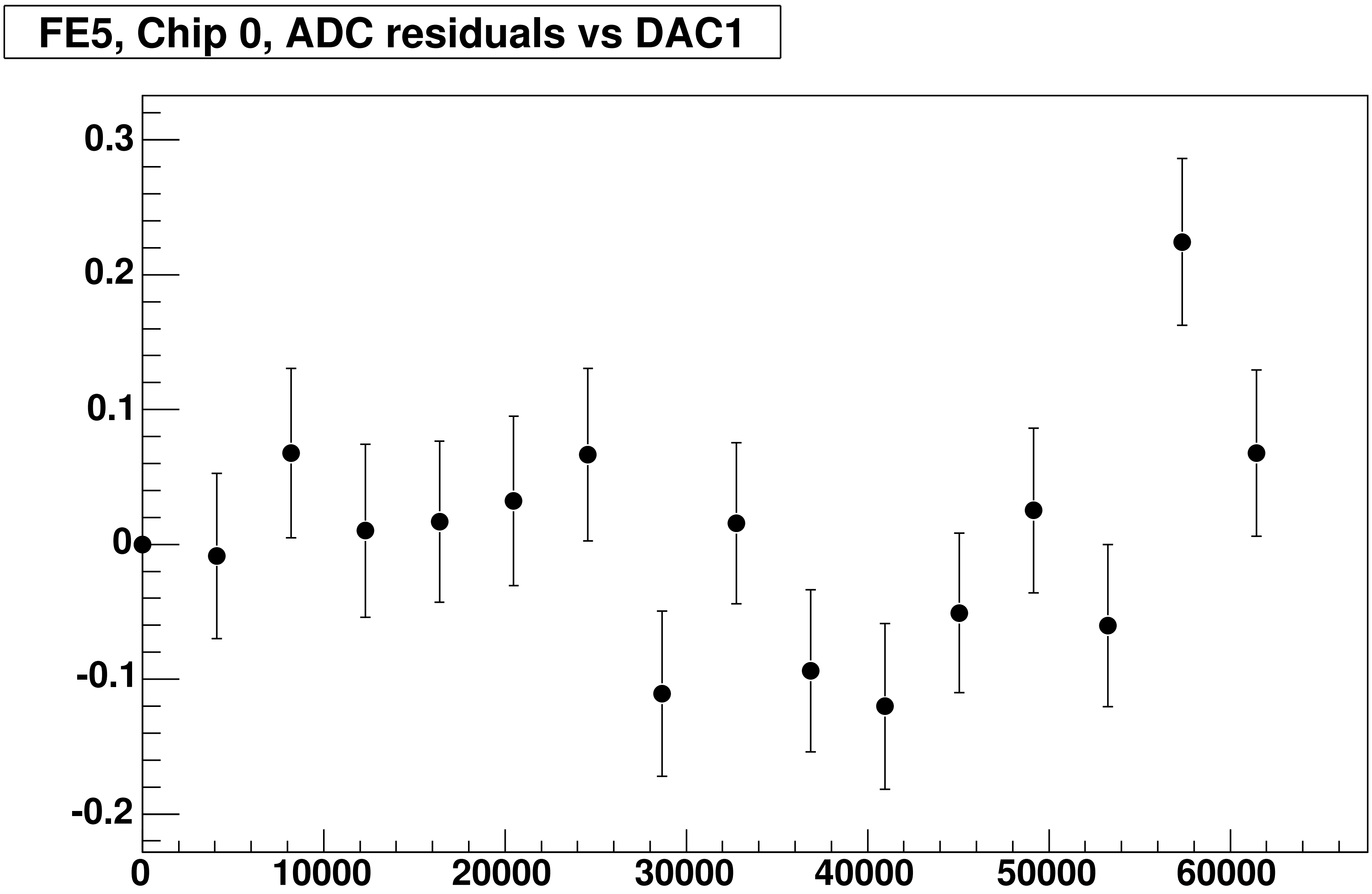


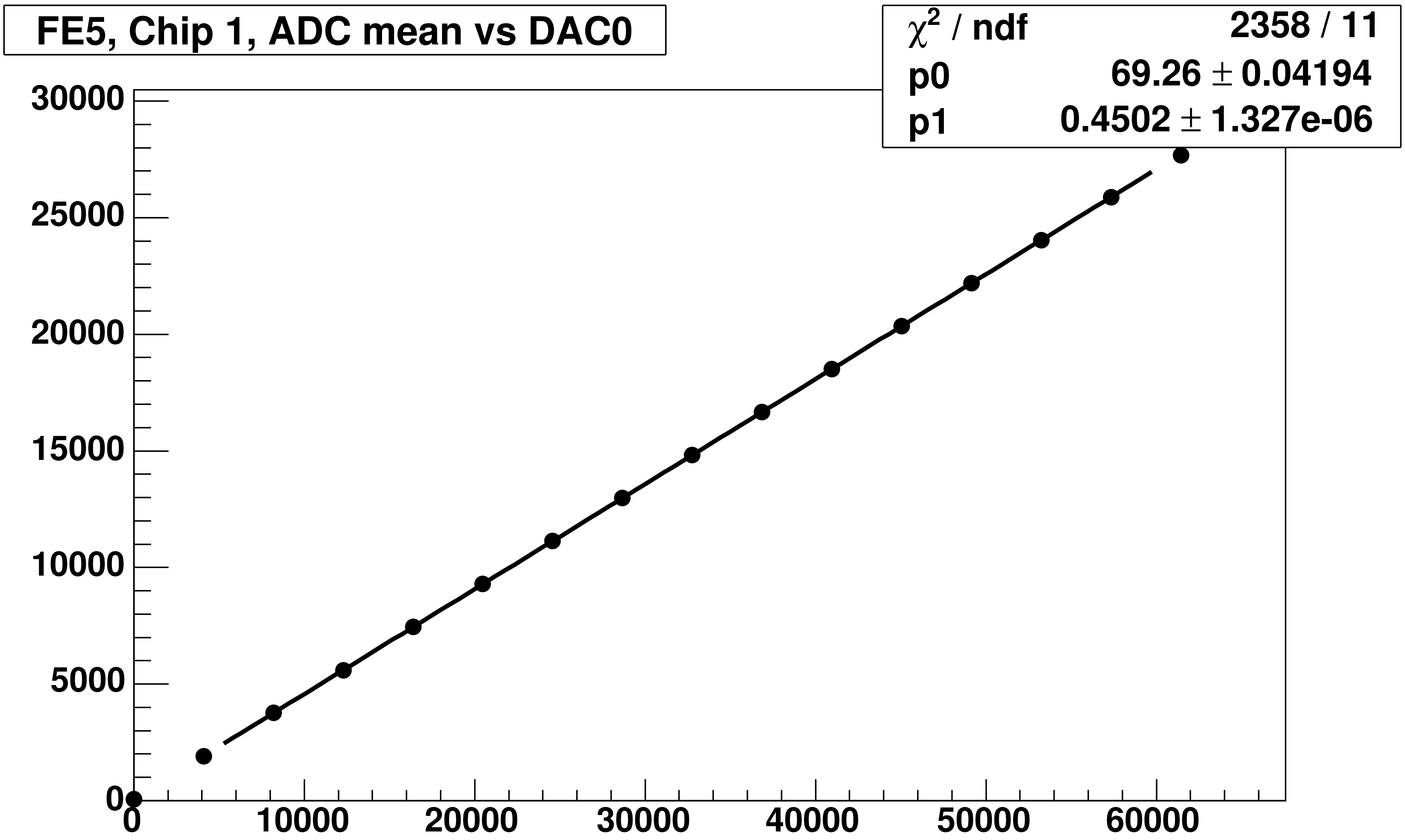
FE5, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

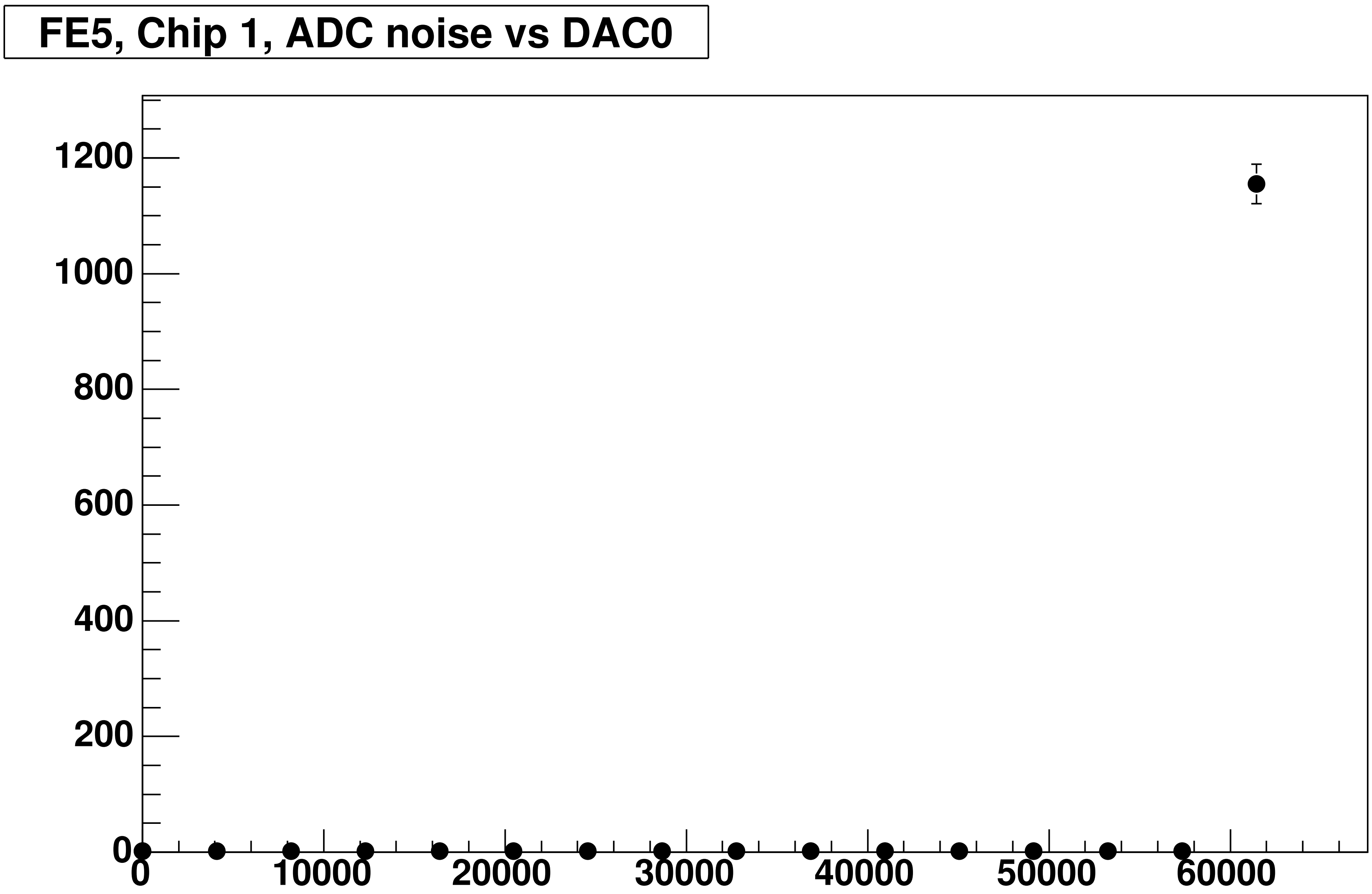


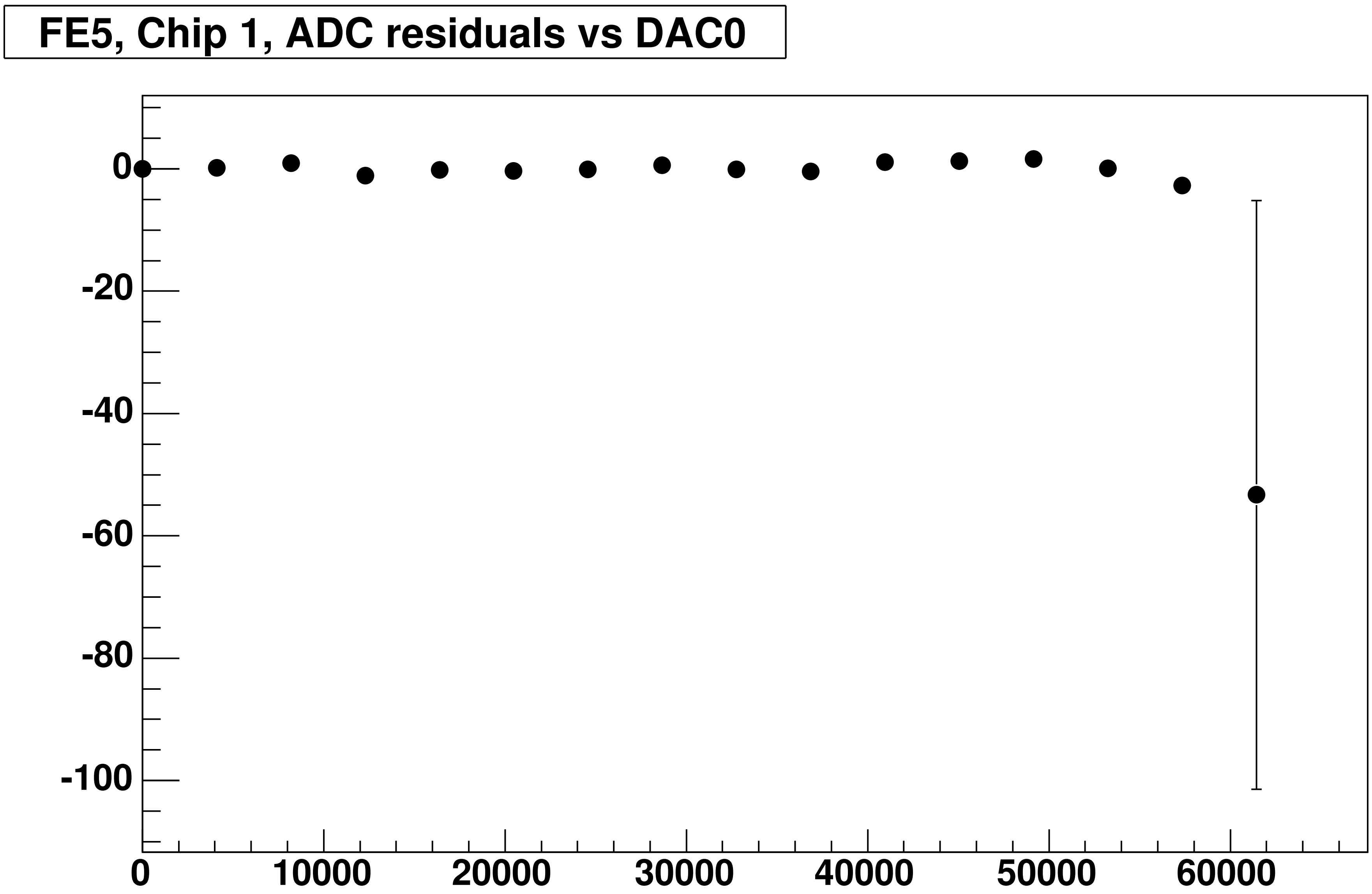
FE5, Chip 0, ADC mean vs DAC1
χ^2 / ndf 27.27 / 11
p0 73.59 ± 0.04075
p1 1.758e-06 ± 1.118e-06
74
73.9
73.8
73.7
73.6
73.5
0
10000
20000
30000
40000
50000
60000


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

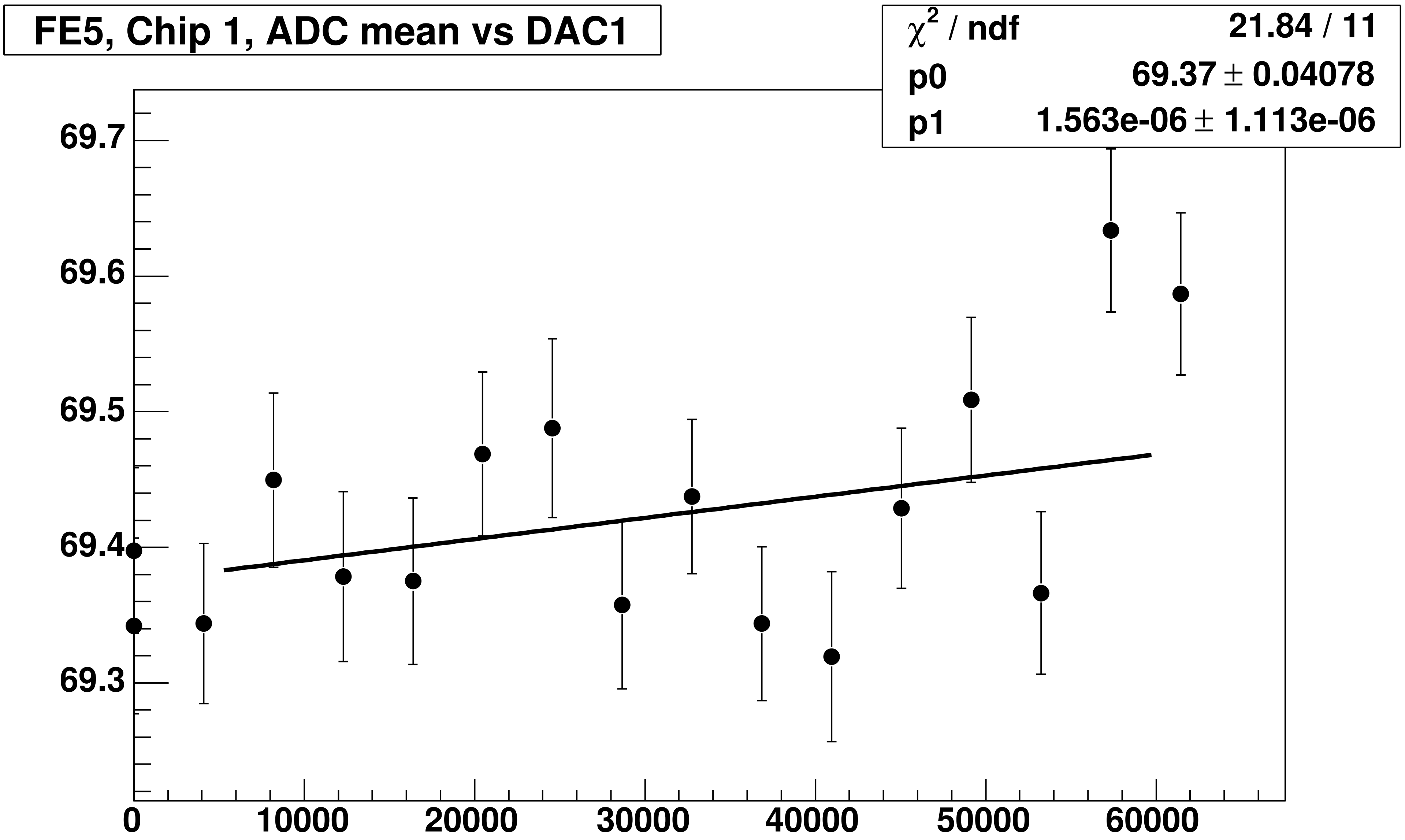

FE5, Chip 0, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE5, Chip 1, ADC mean vs DAC0
χ2 / ndf 2358 / 11
p0 69.26 ± 0.04194
p1 0.4502 ± 1.327e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

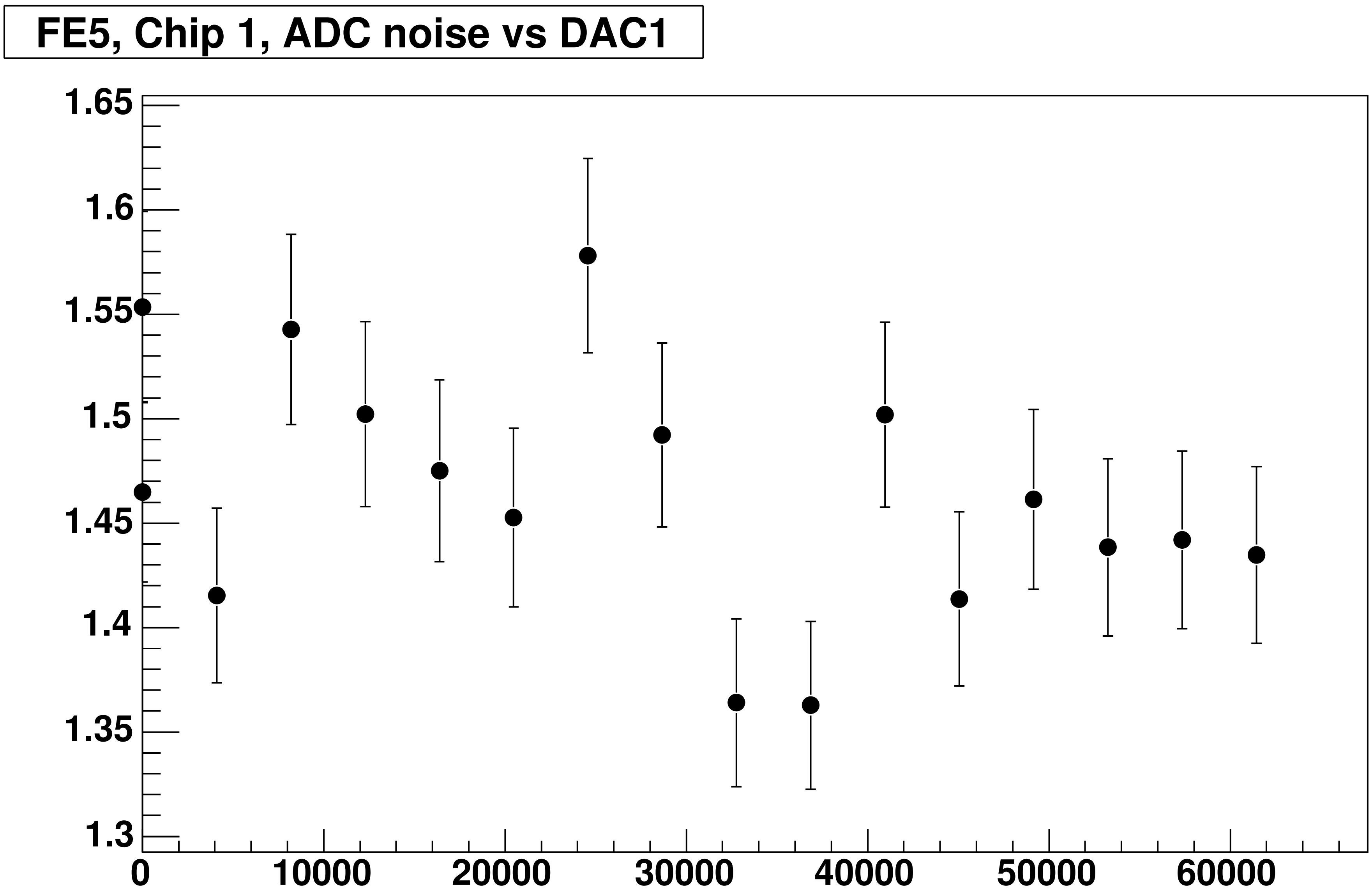

FE5, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

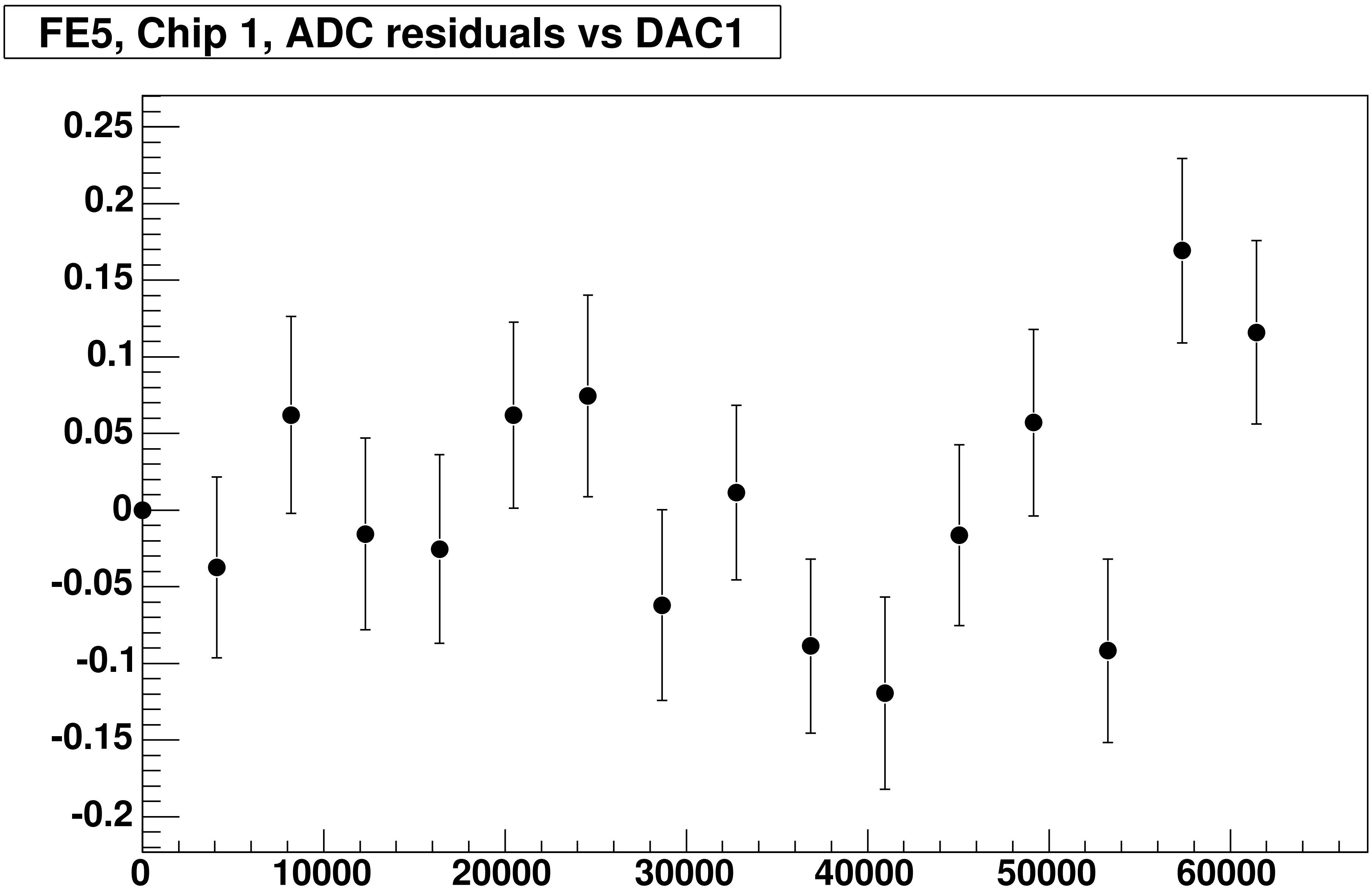


FE5, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

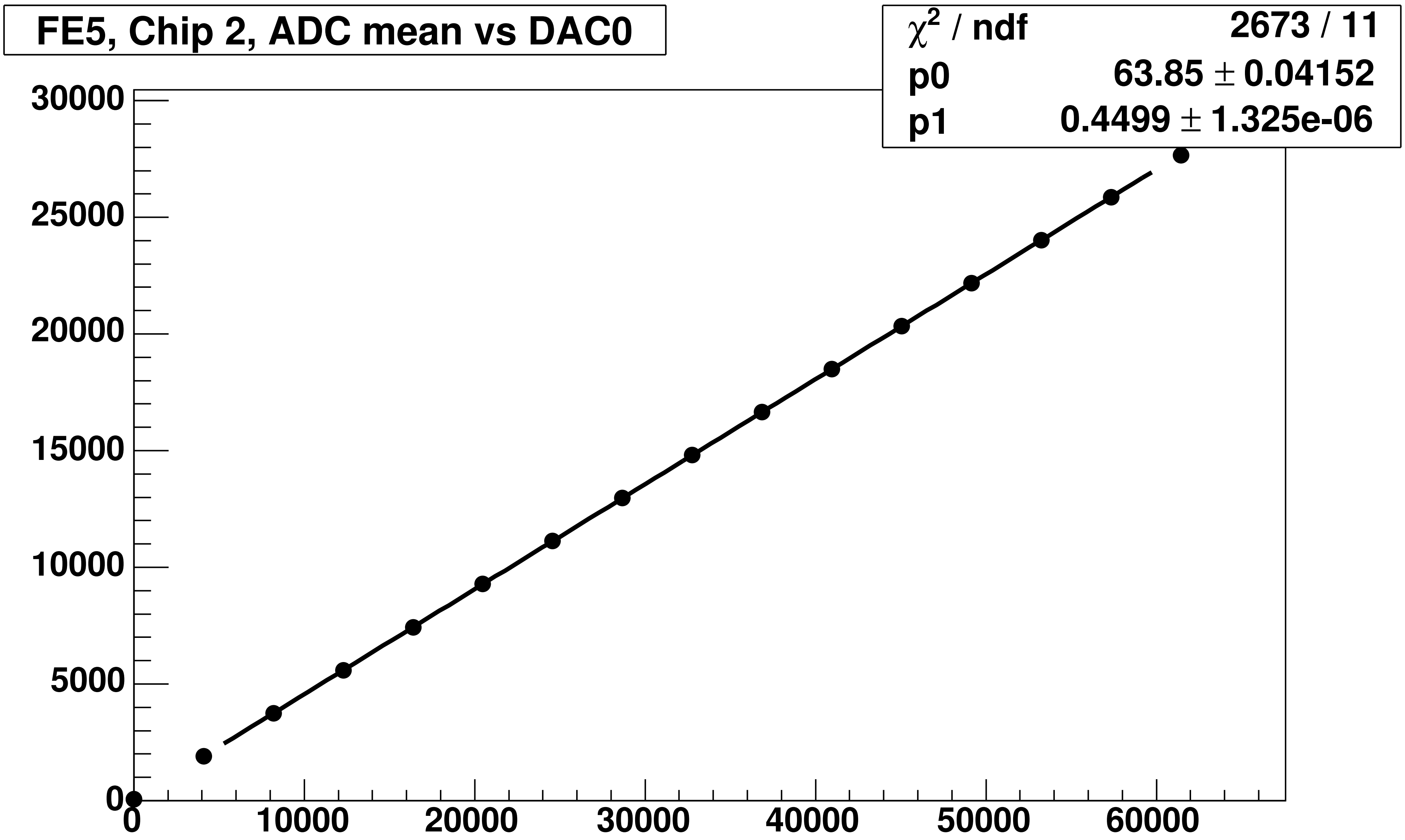


FE5, Chip 1, ADC mean vs DAC1
χ² / ndf 21.84 / 11
p0 69.37 ± 0.04078
p1 1.563e-06 ± 1.113e-06
69.7
69.6
69.5
69.4
69.3
0
10000
20000
30000
40000
50000
60000

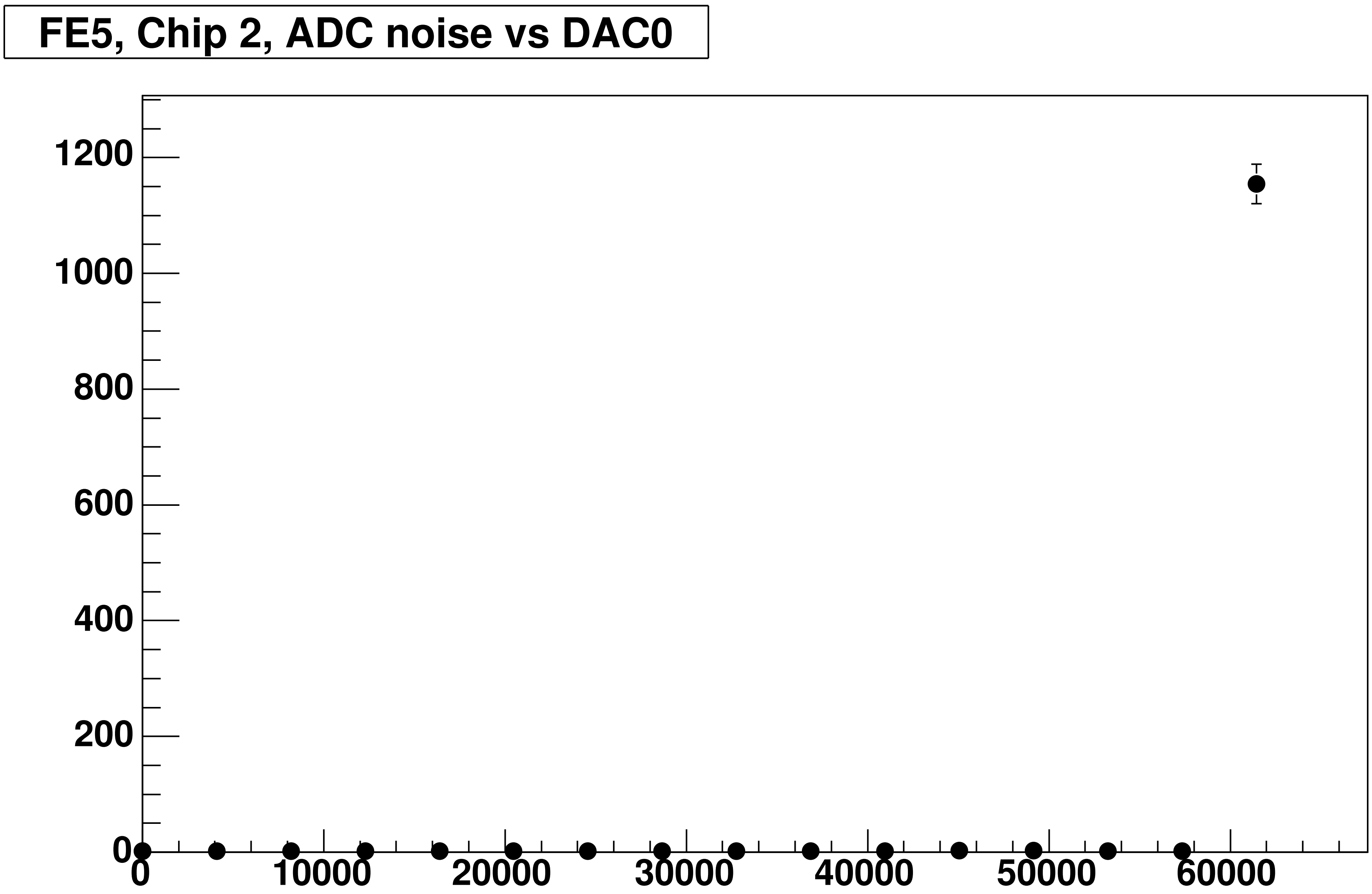

FE5, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

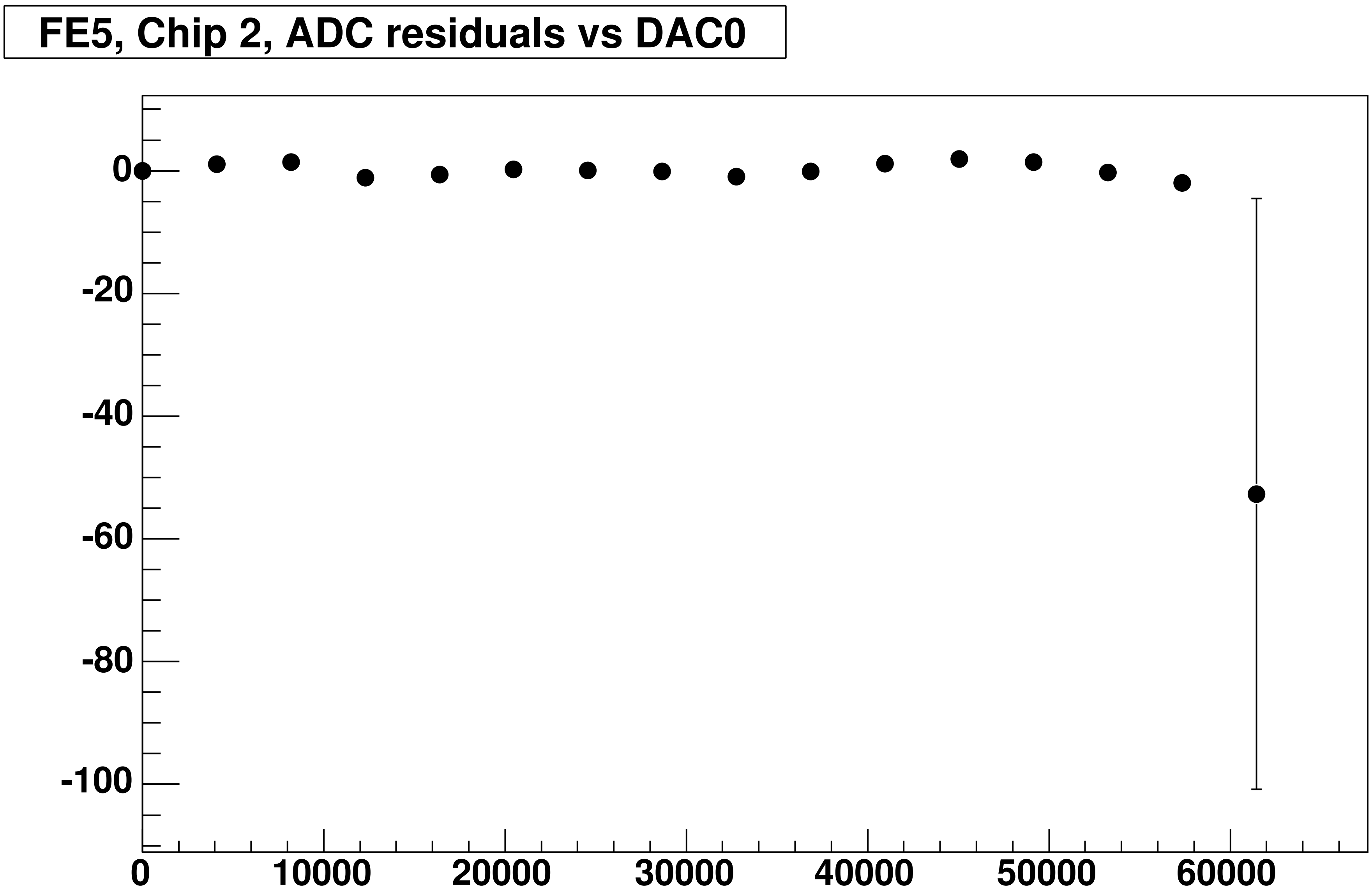


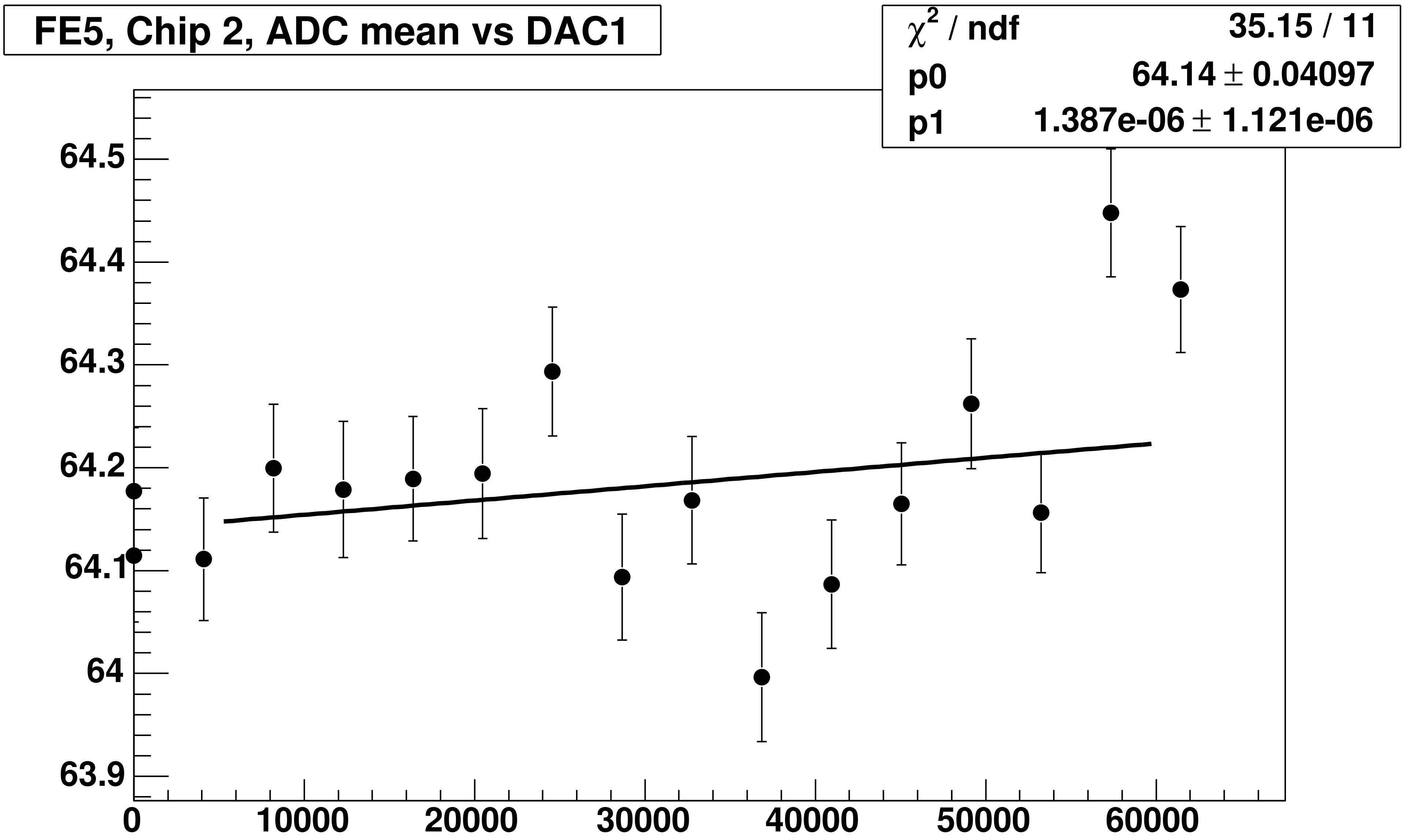
FE5, Chip 1, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



FE5, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2673 / 11
p0 63.85 ± 0.04152
p1 0.4499 ± 1.325e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

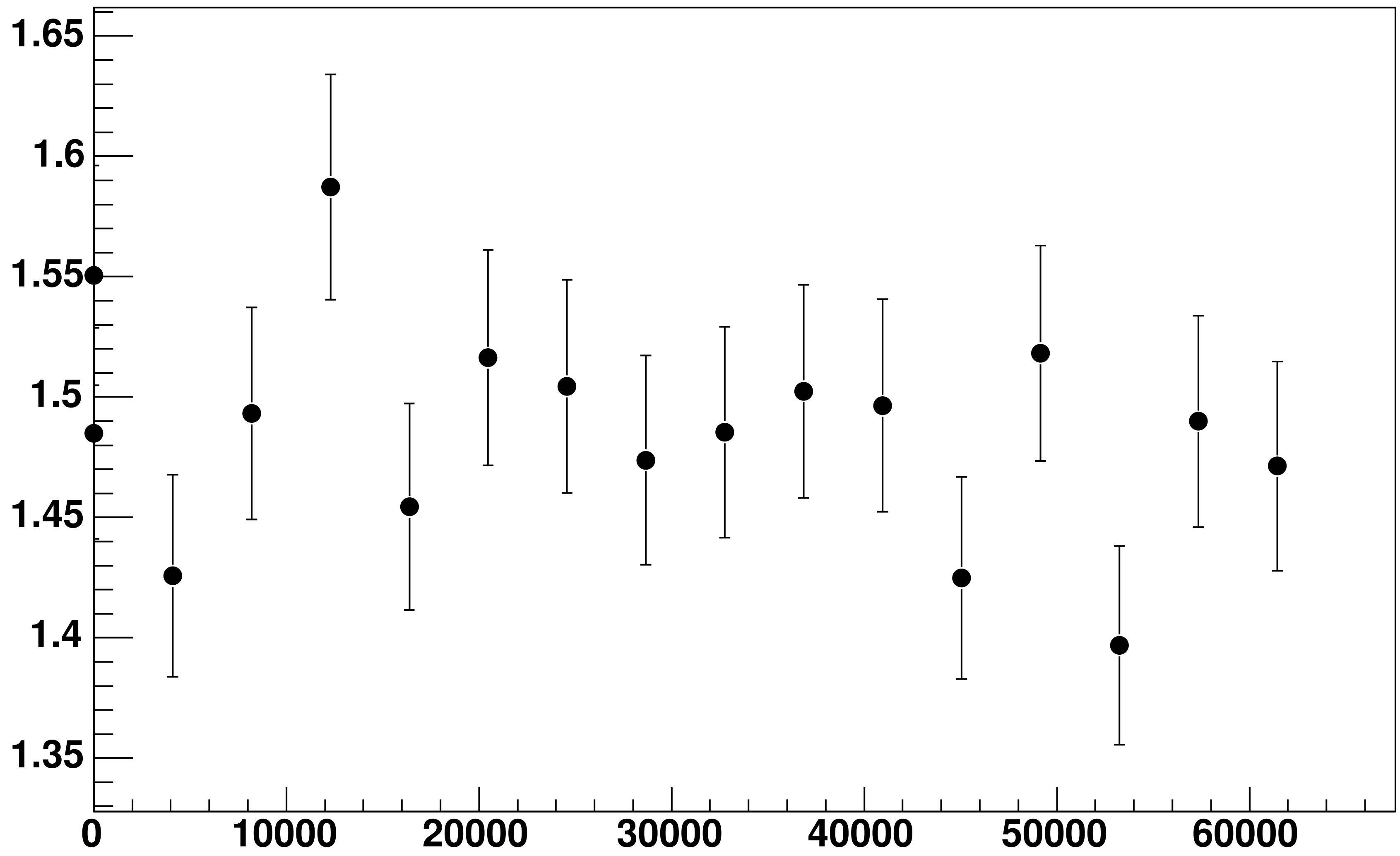

FE5, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

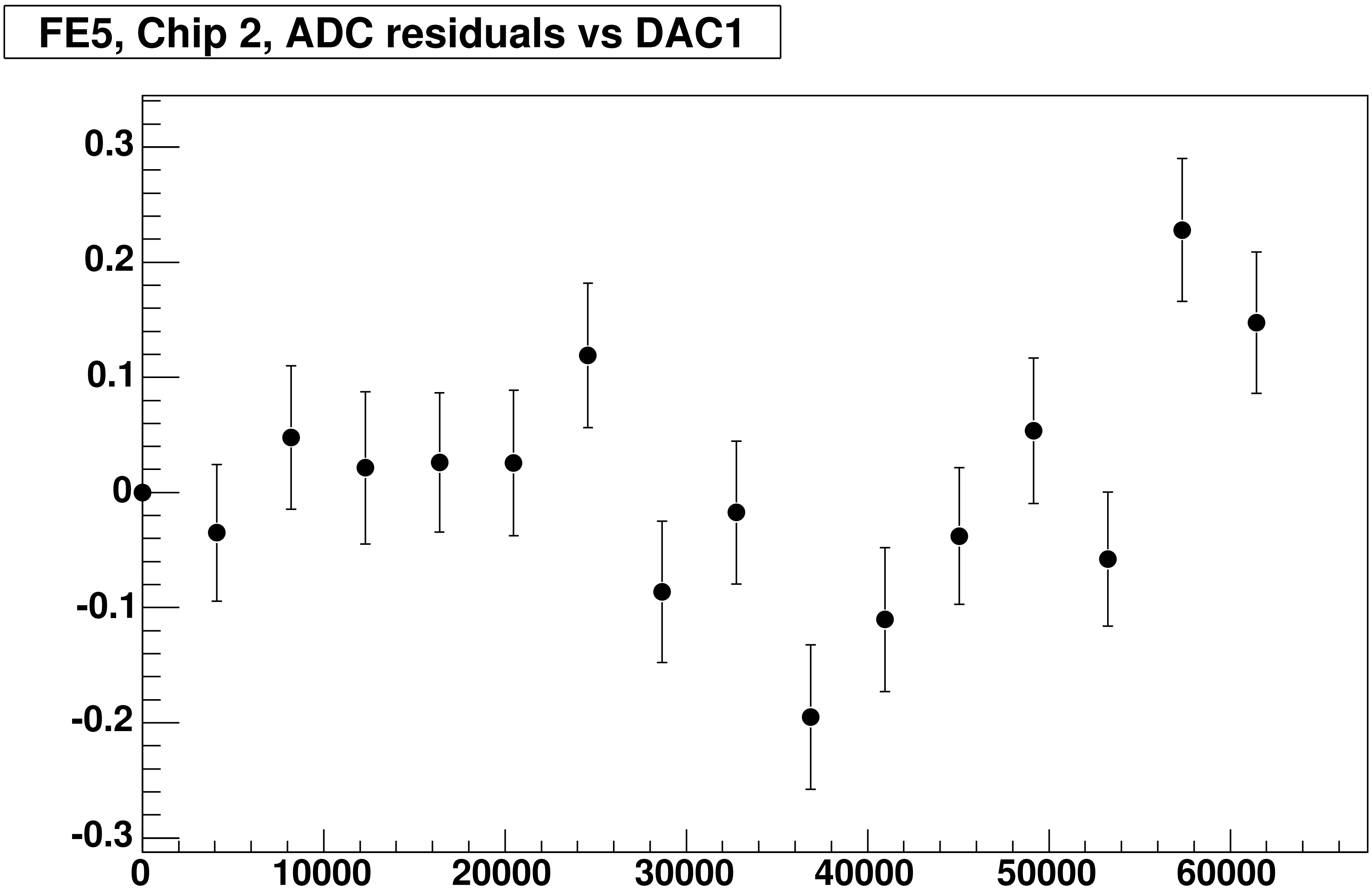

FE5, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

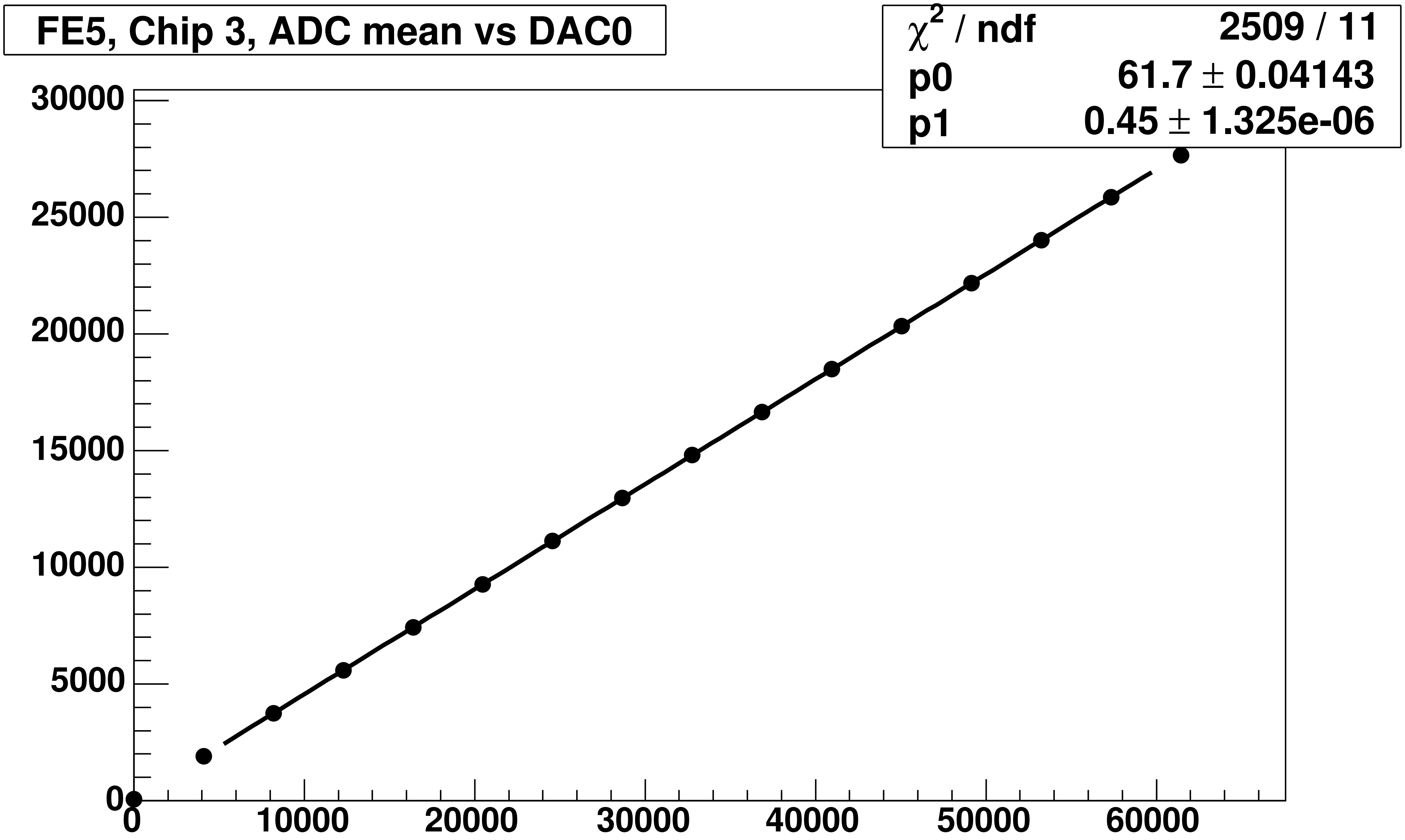


FE5, Chip 2, ADC mean vs DAC1
χ^2 / ndf 35.15 / 11
p0 64.14 ± 0.04097
p1 1.387e-06 ± 1.121e-06
64.5
64.4
64.3
64.2
64.1
64
63.9
0
10000
20000
30000
40000
50000
60000

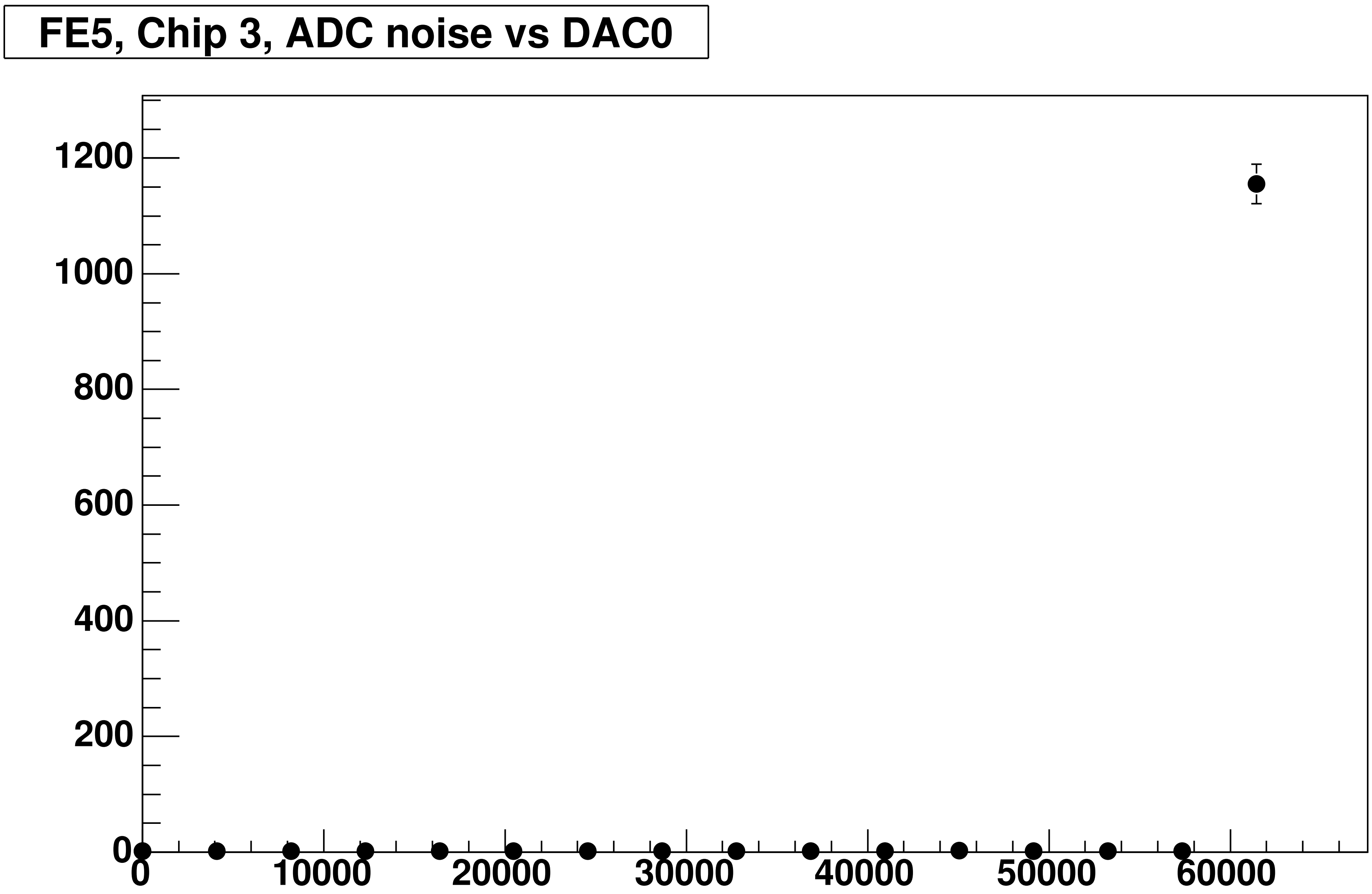
FE5, Chip 2, ADC noise vs DAC1

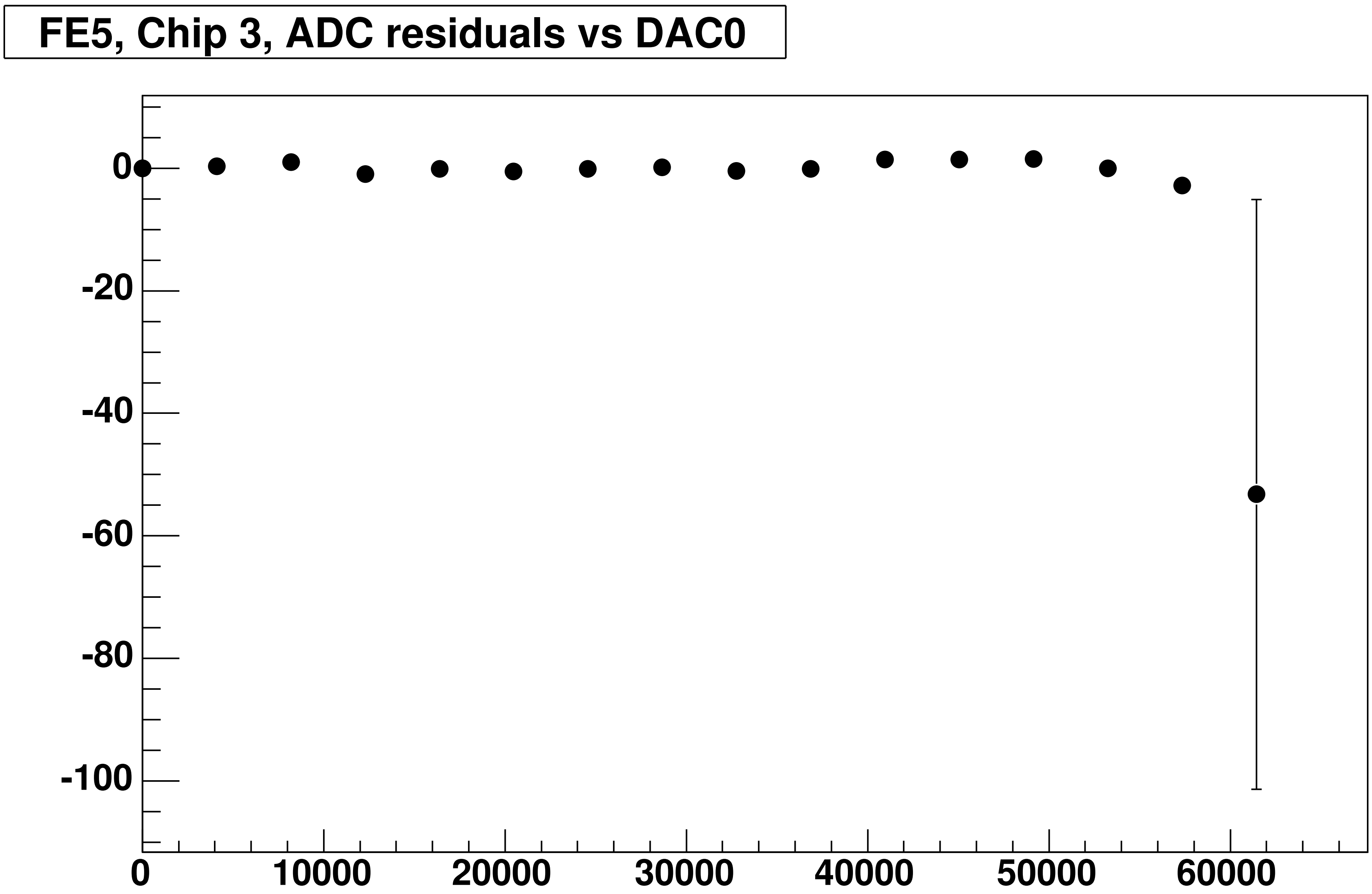


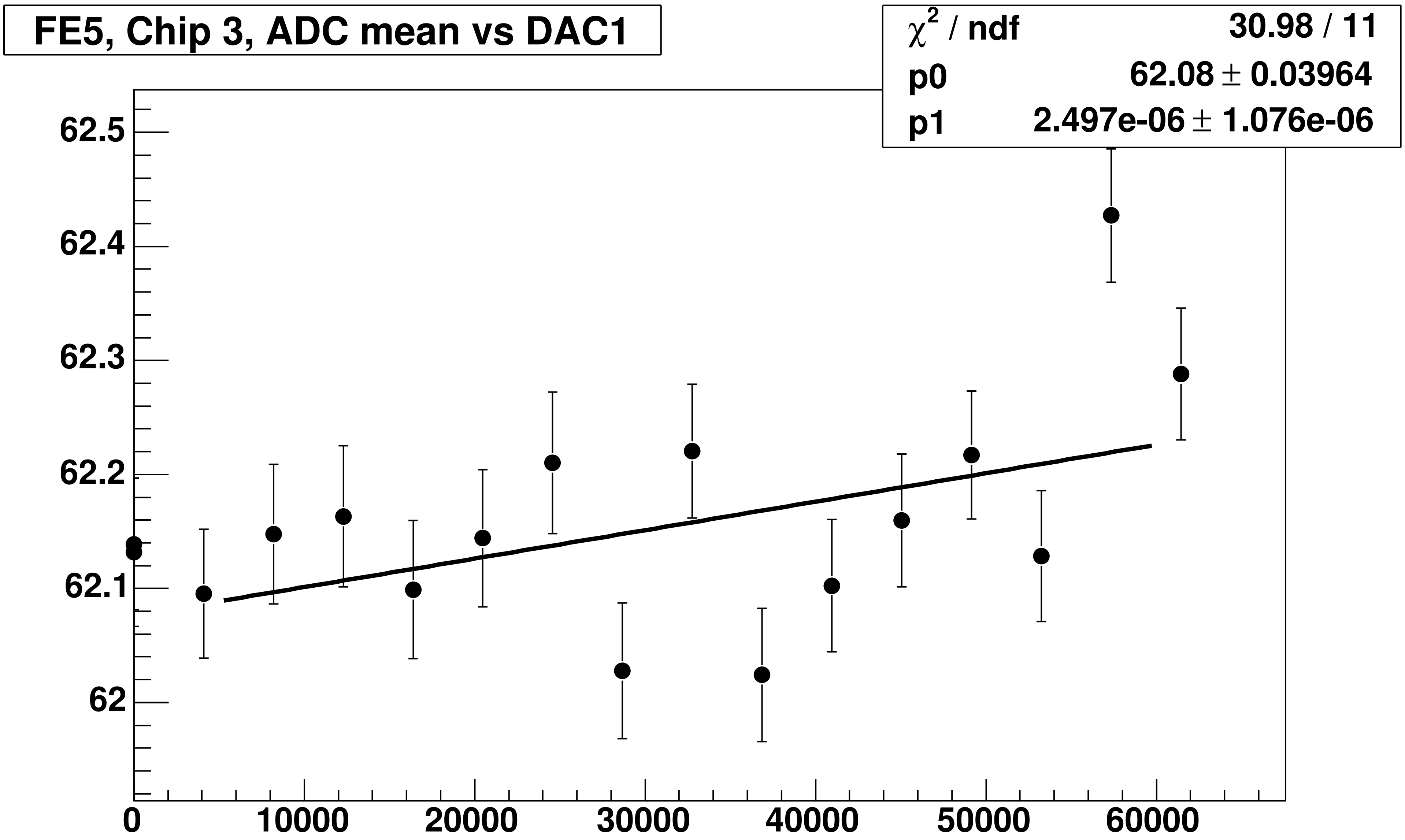

FE5, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



FE5, Chip 3, ADC mean vs DAC0
χ^2 / ndf 2509 / 11
p0 61.7 ± 0.04143
p1 0.45 ± 1.325e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

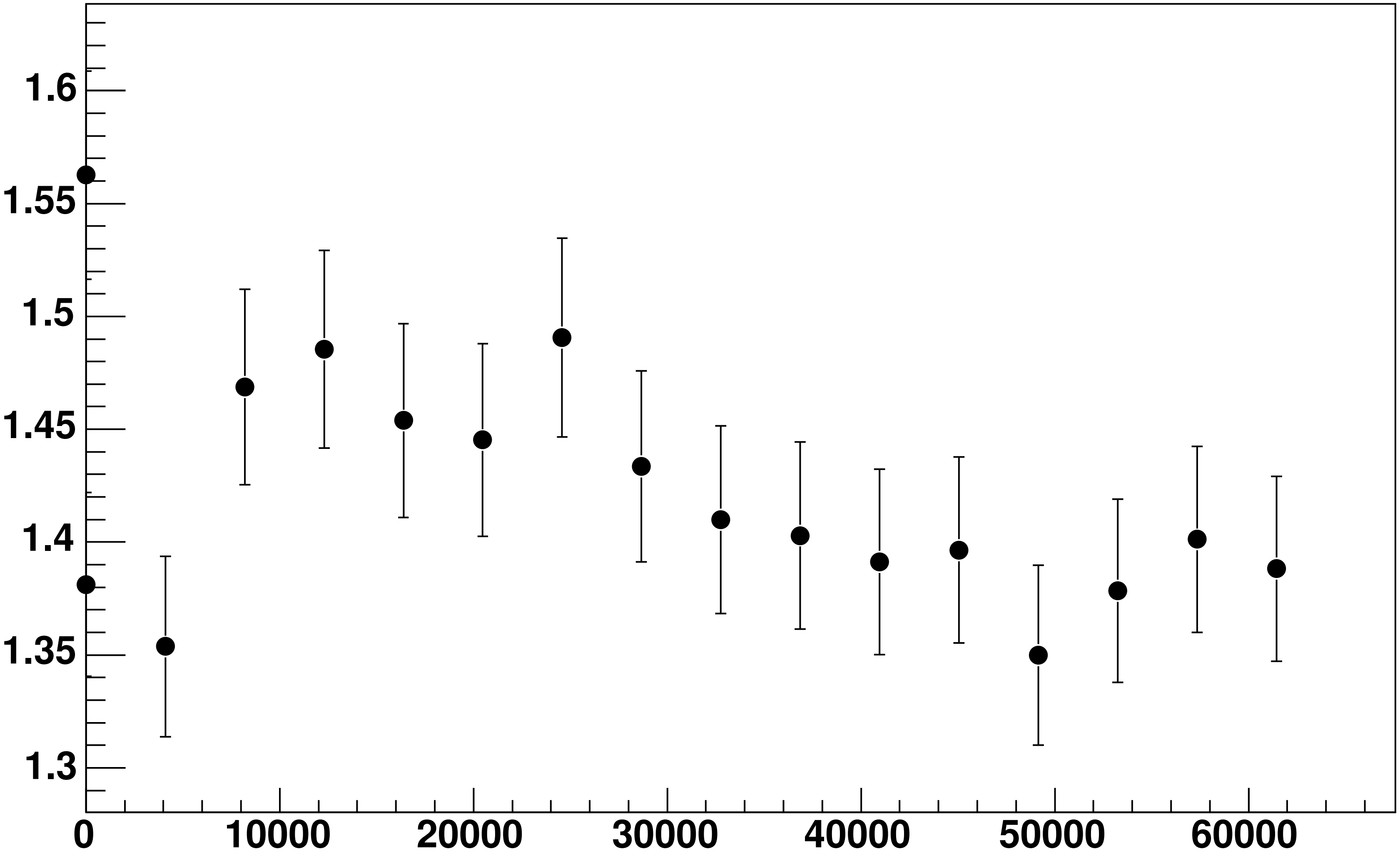

FE5, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

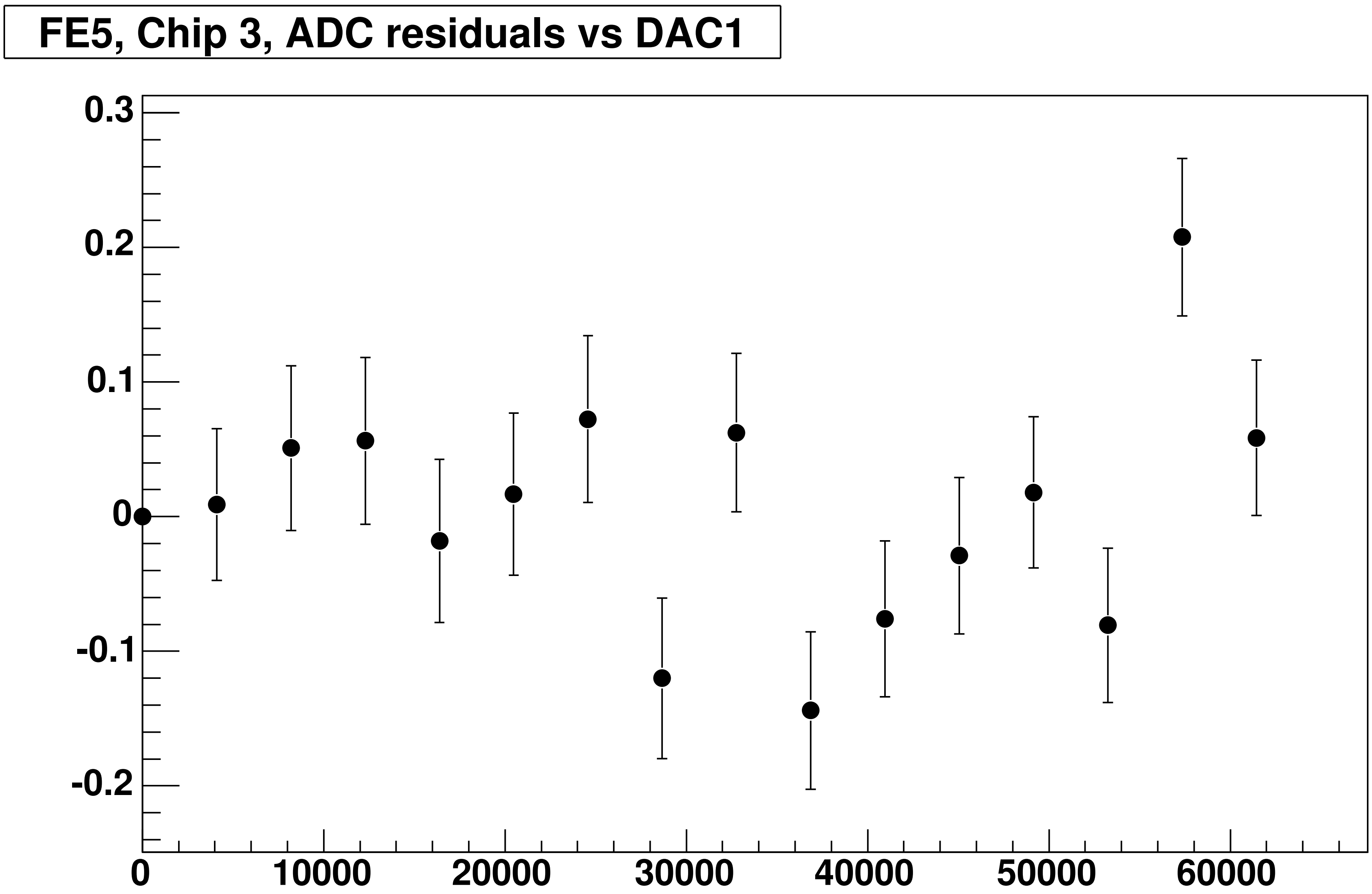

FE5, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

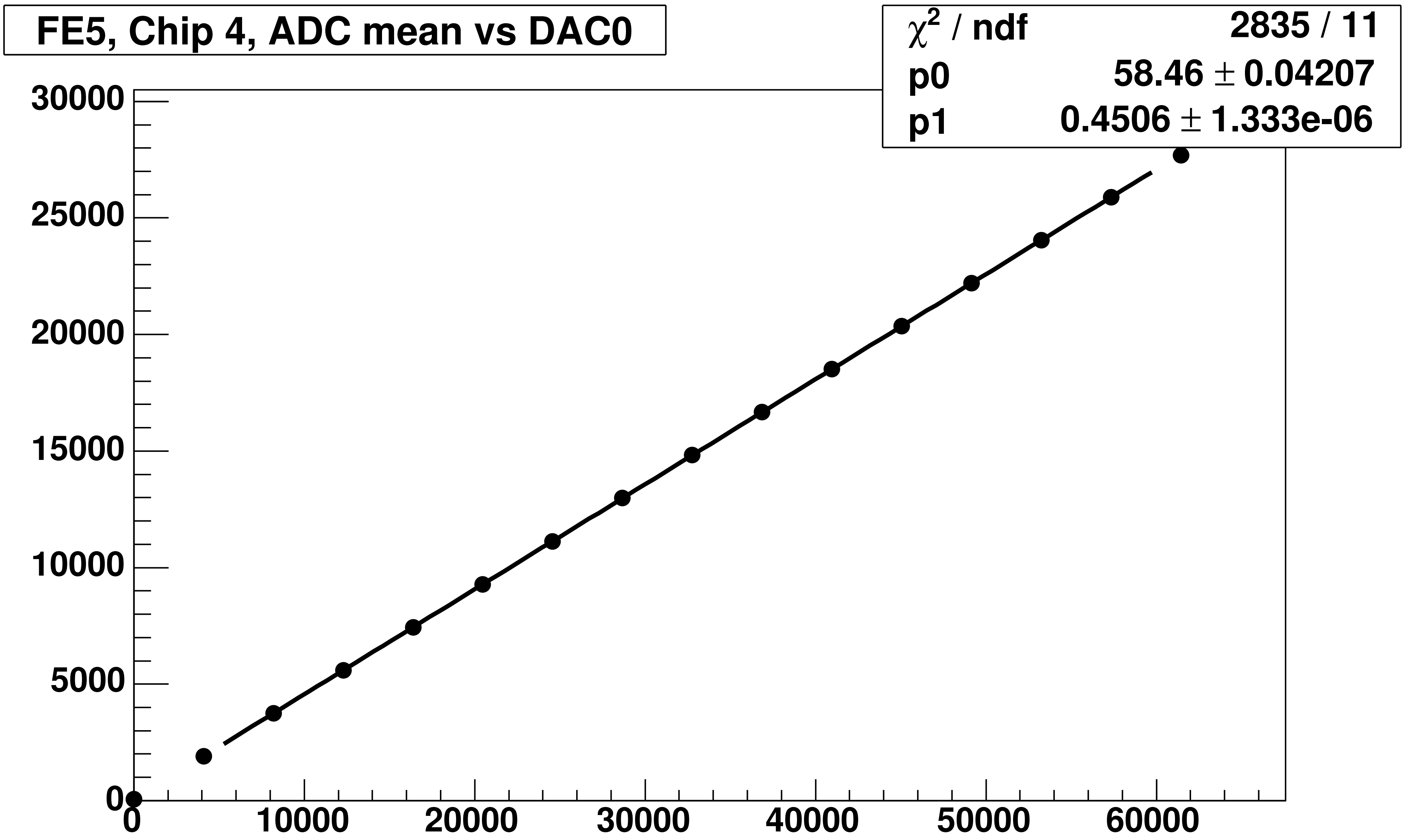


FE5, Chip 3, ADC mean vs DAC1
χ^2 / ndf 30.98 / 11
p0 62.08 ± 0.03964
p1 2.497e-06 ± 1.076e-06
62.5
62.4
62.3
62.2
62.1
62
0
10000
20000
30000
40000
50000
60000

FE5, Chip 3, ADC noise vs DAC1

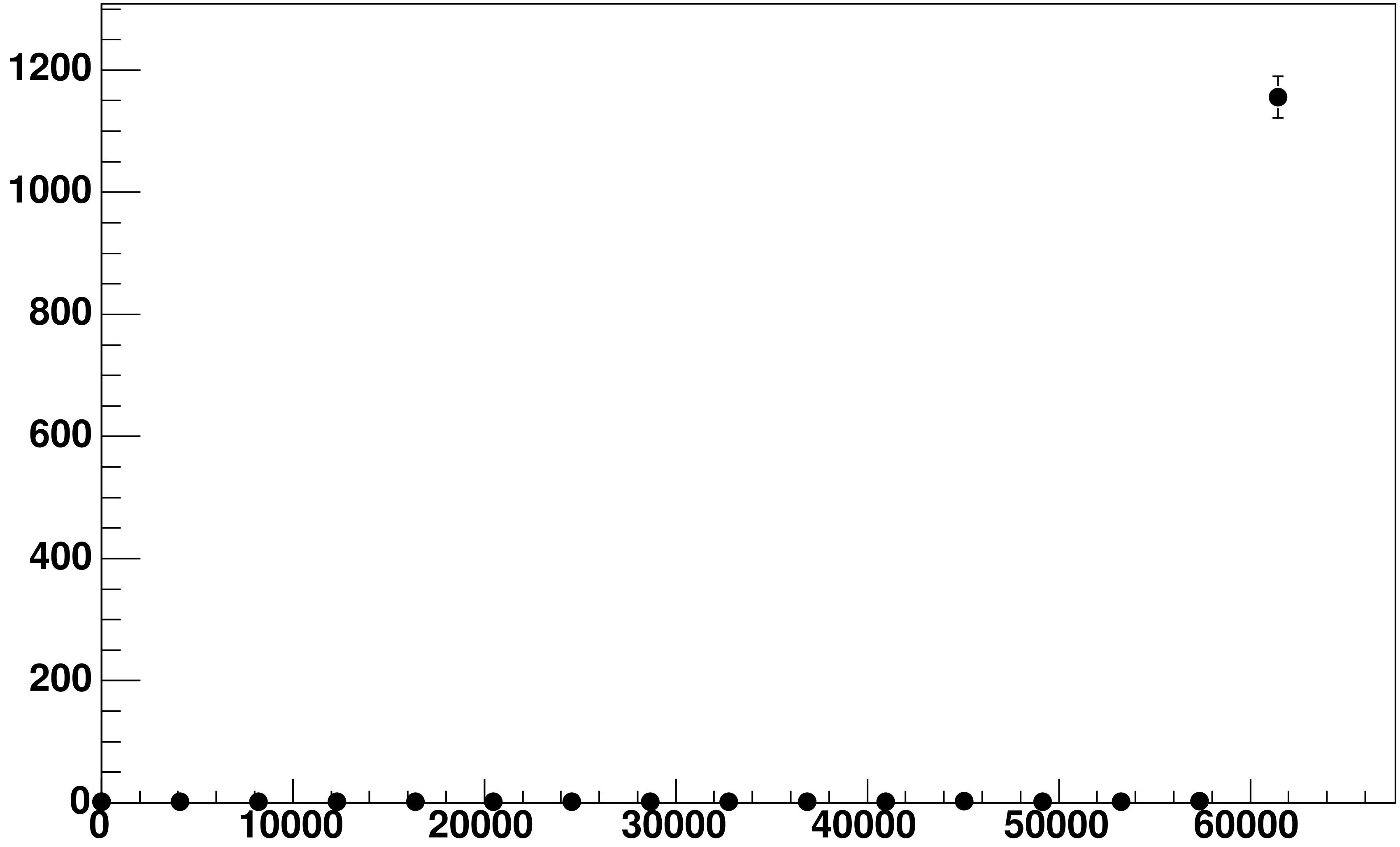


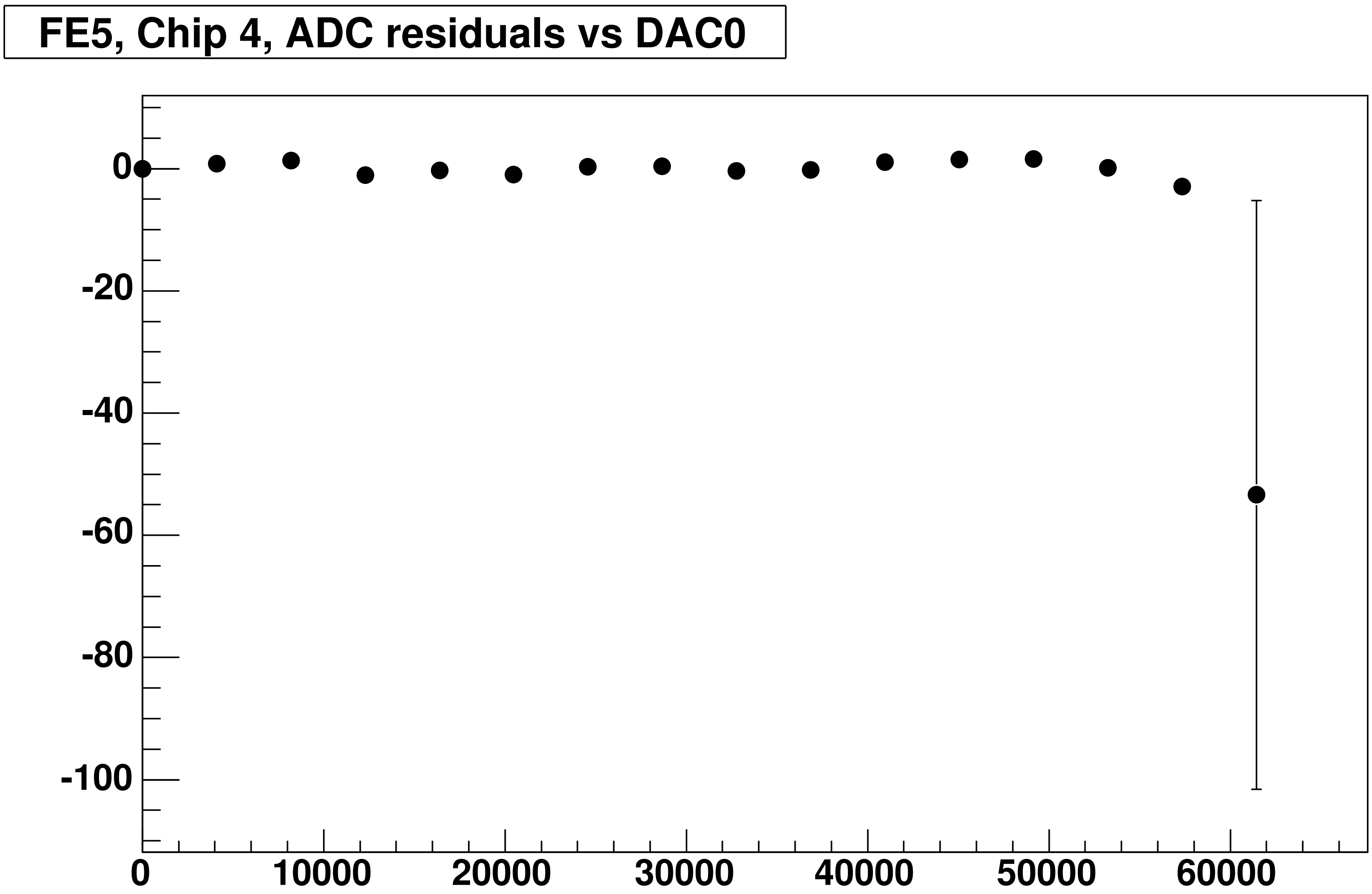

FE5, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

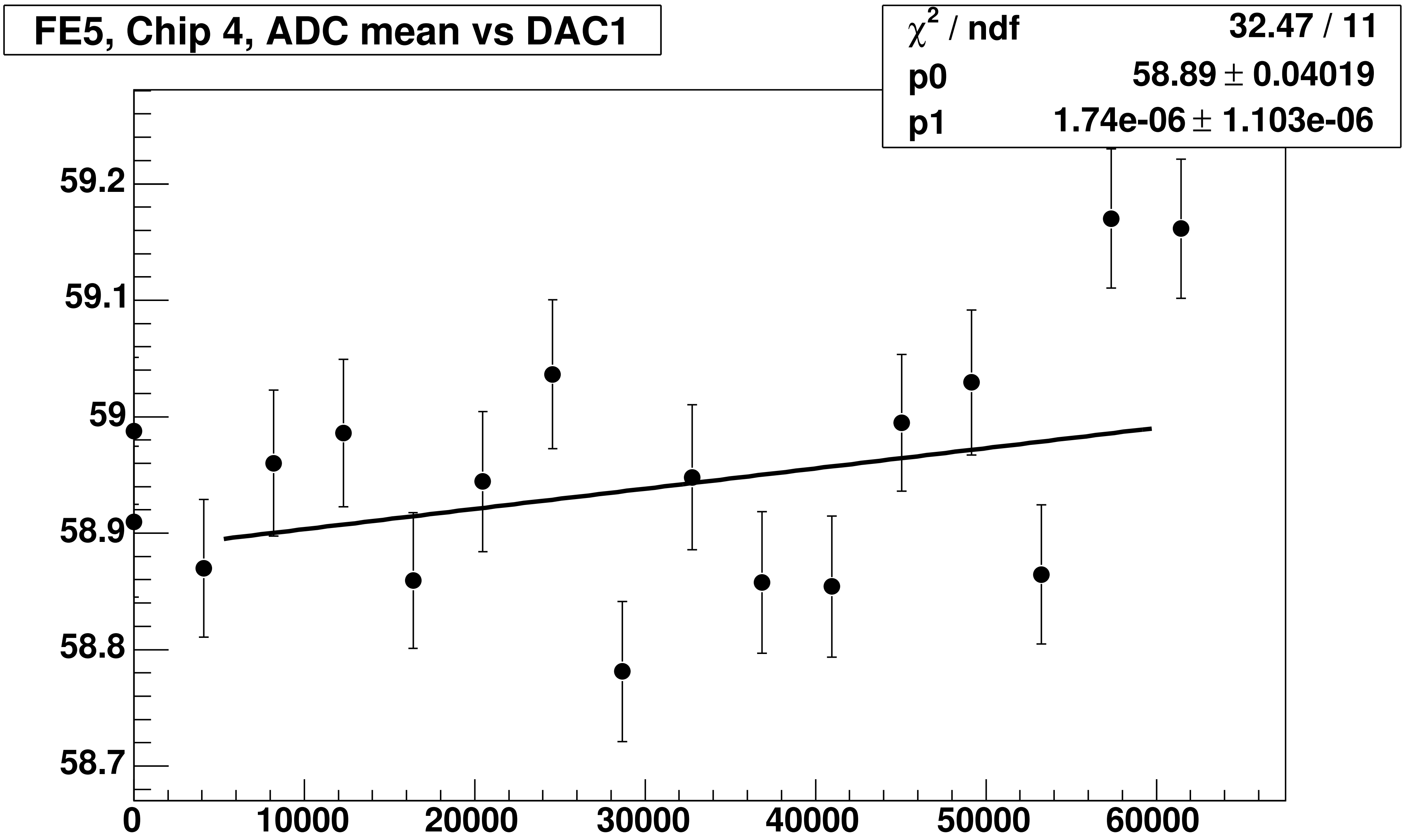


FE5, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2835 / 11
p0 58.46 ± 0.04207
p1 0.4506 ± 1.333e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

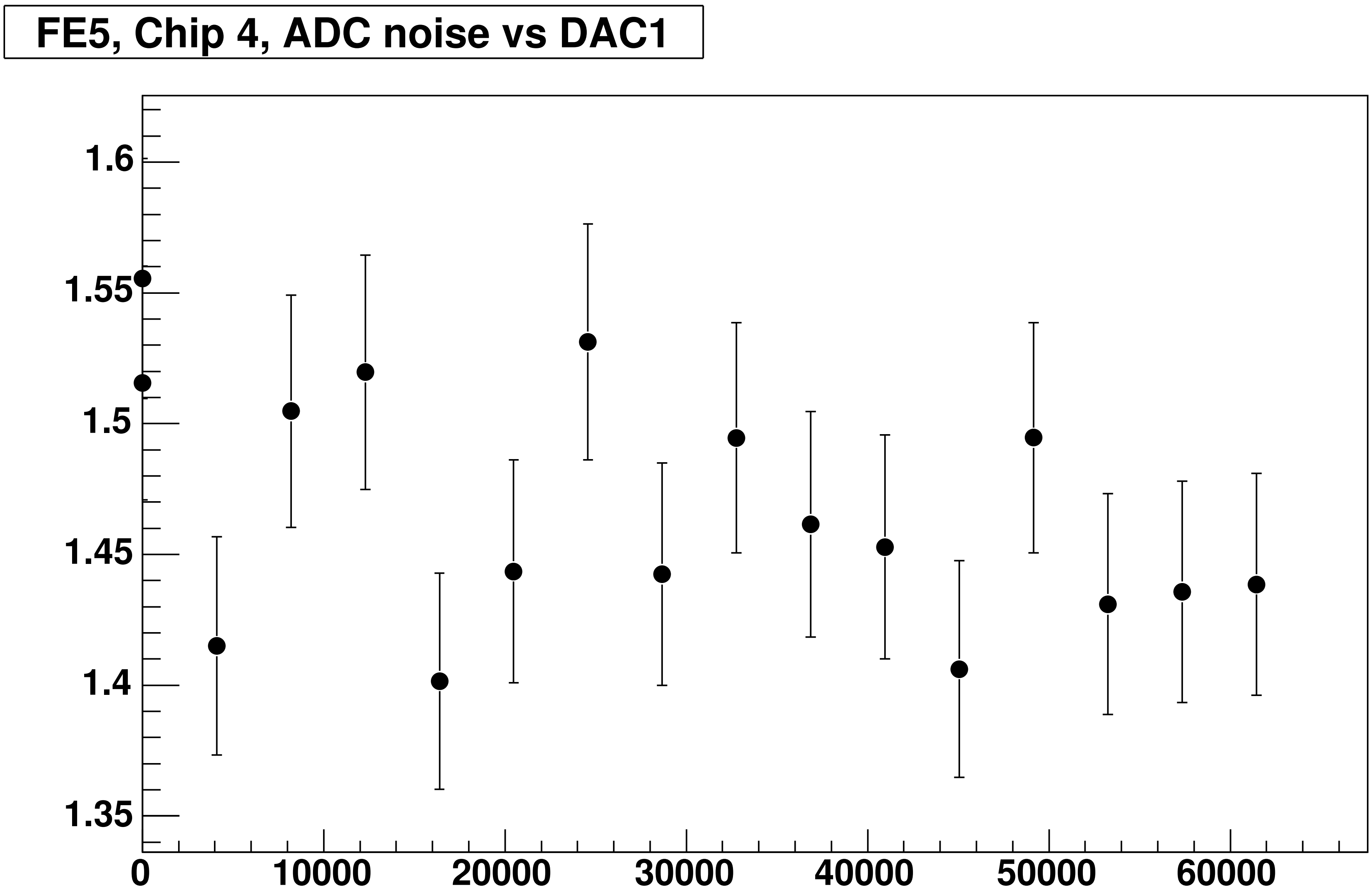
FE5, Chip 4, ADC noise vs DAC0

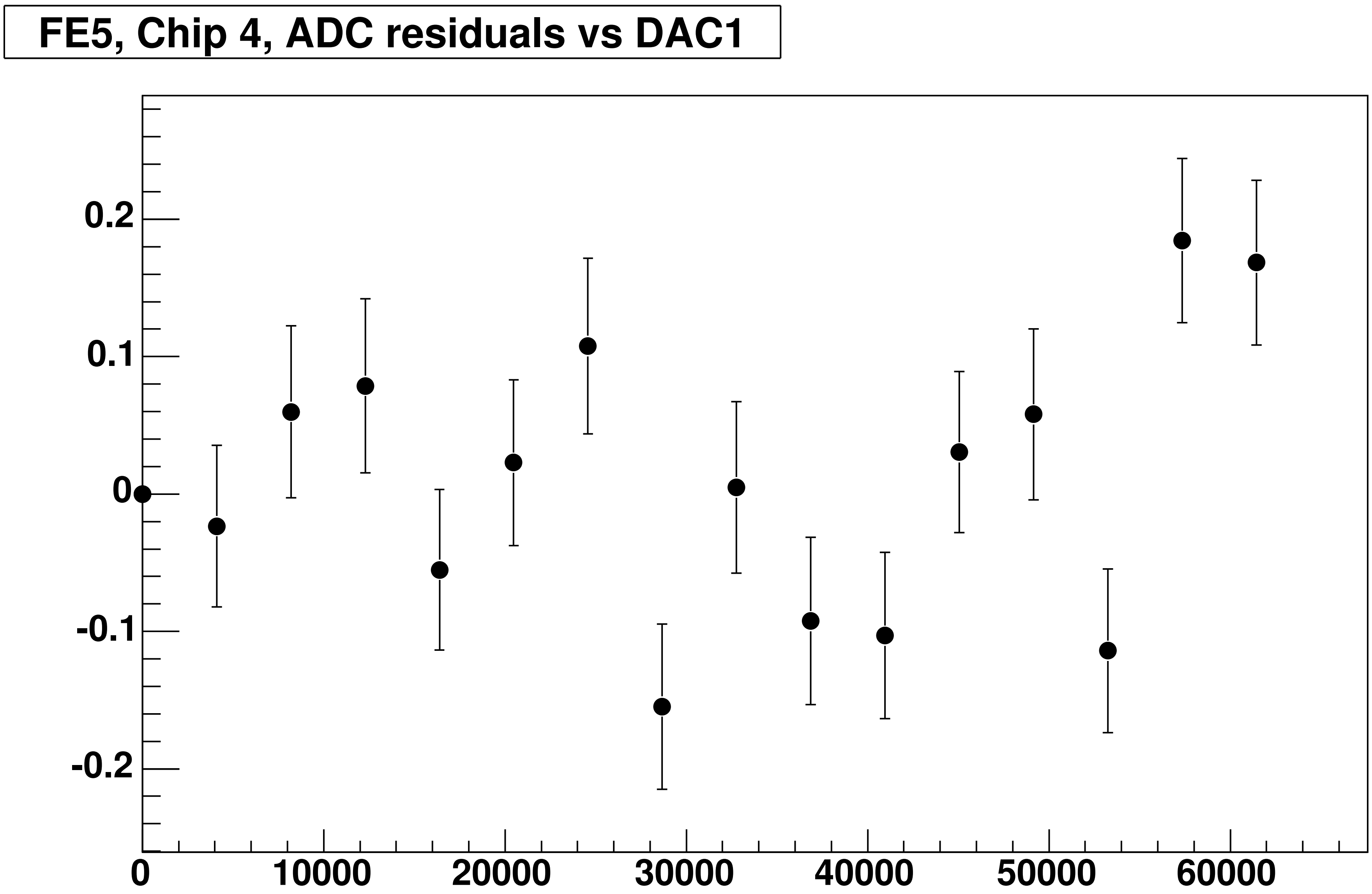


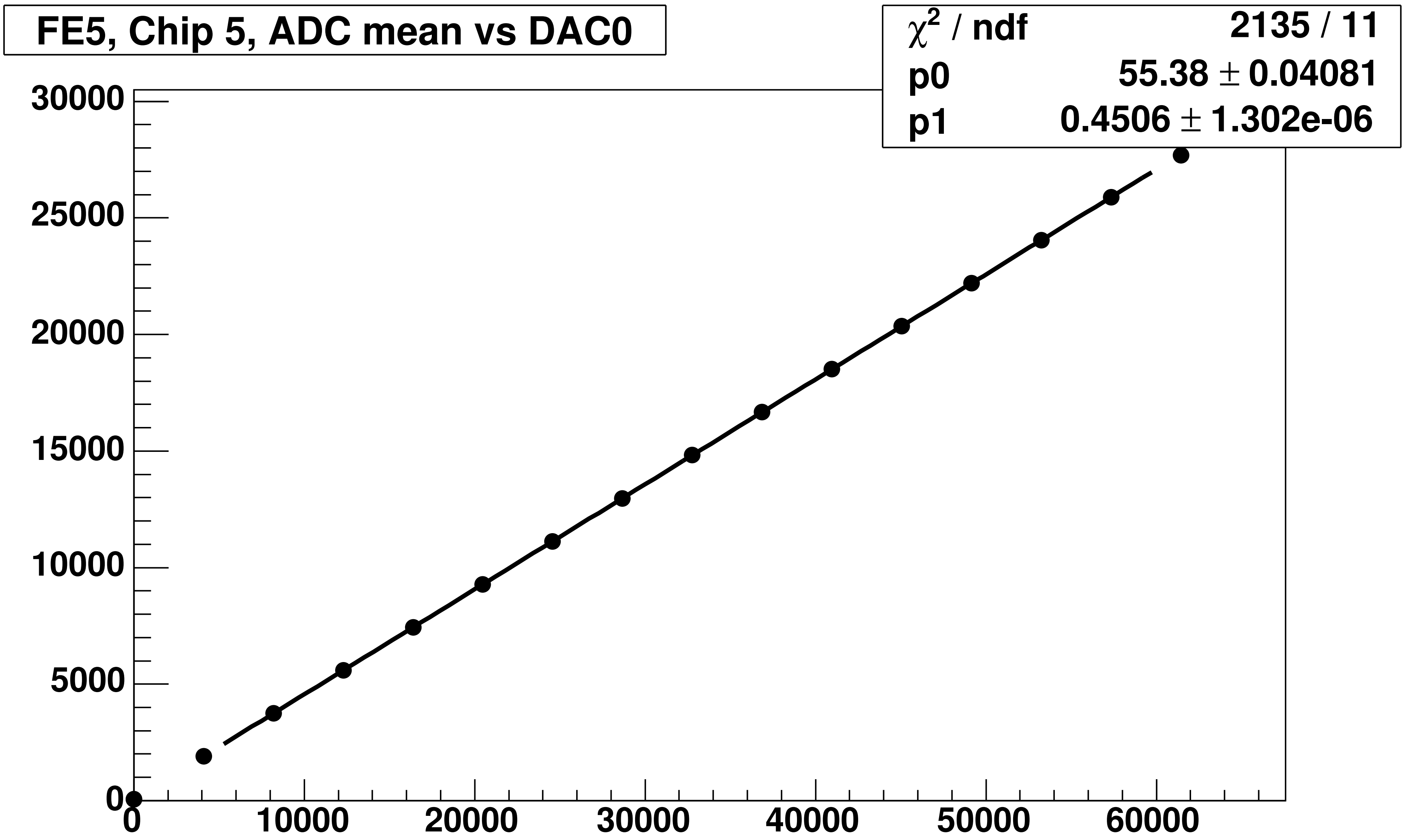

FE5, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



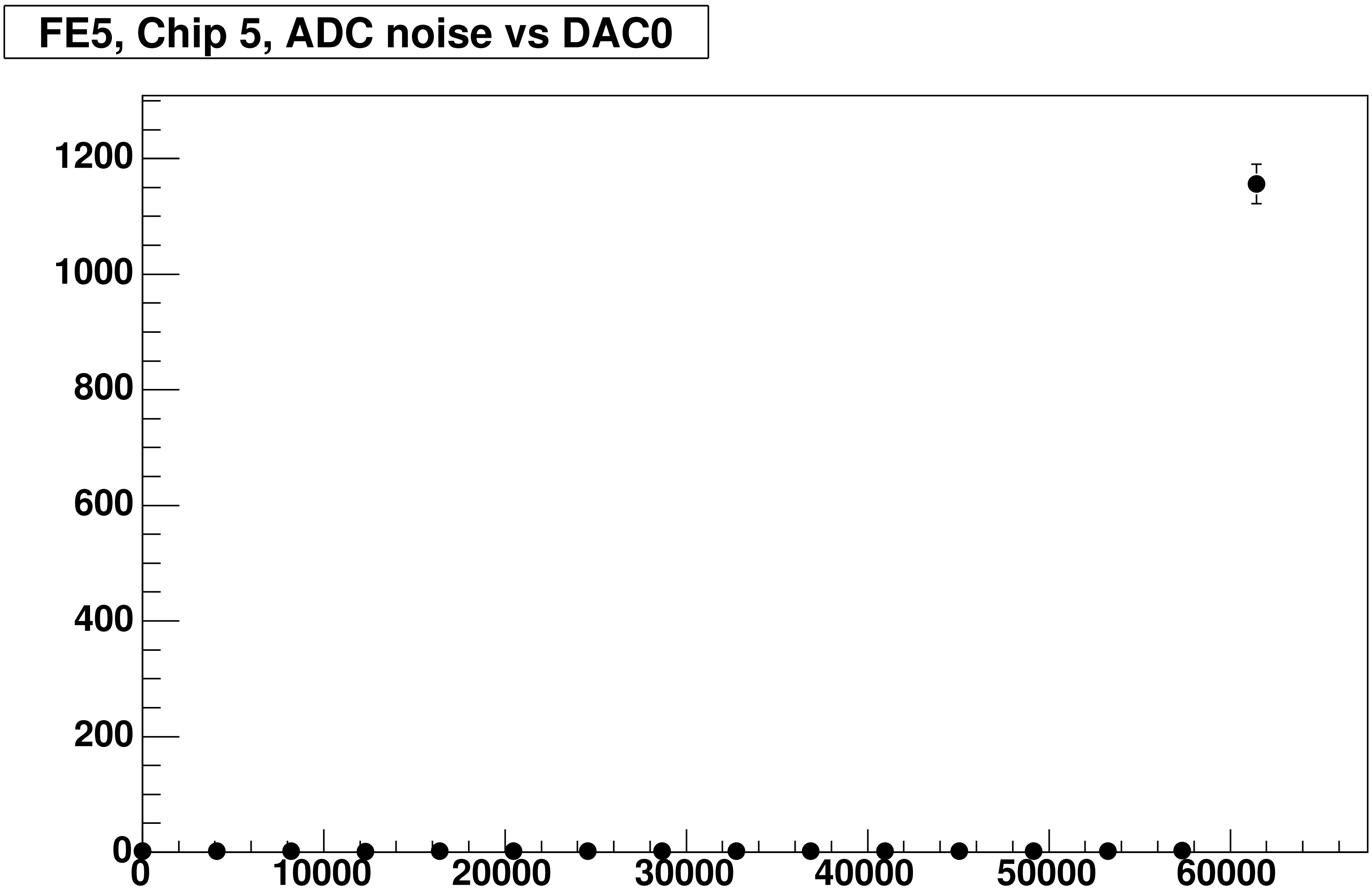
FE5, Chip 4, ADC mean vs DAC1
χ^2 / ndf 32.47 / 11
p0 58.89 ± 0.04019
p1 1.74e-06 ± 1.103e-06
59.2
59.1
59
58.9
58.8
58.7
0
10000
20000
30000
40000
50000
60000

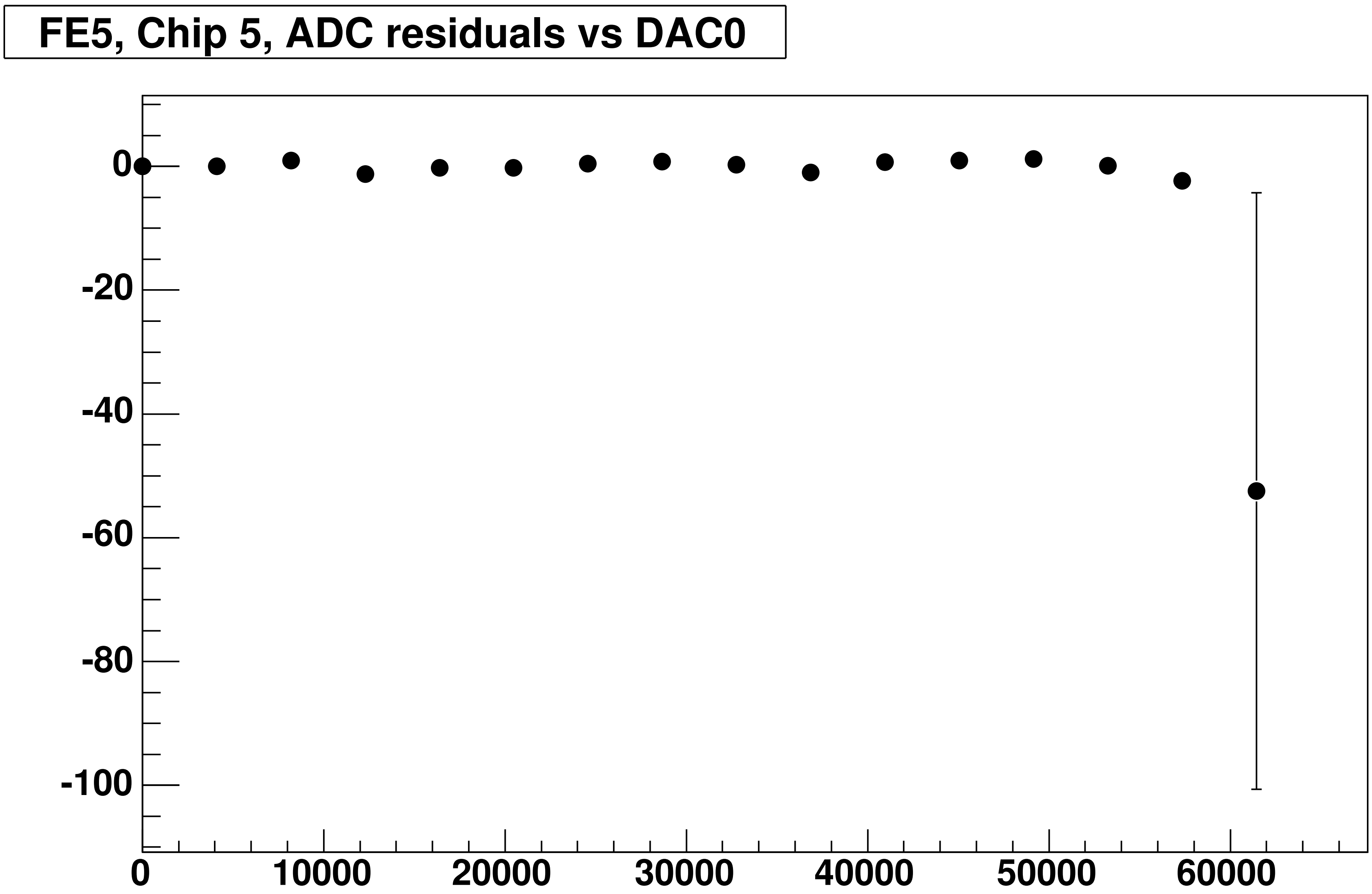

FE5, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

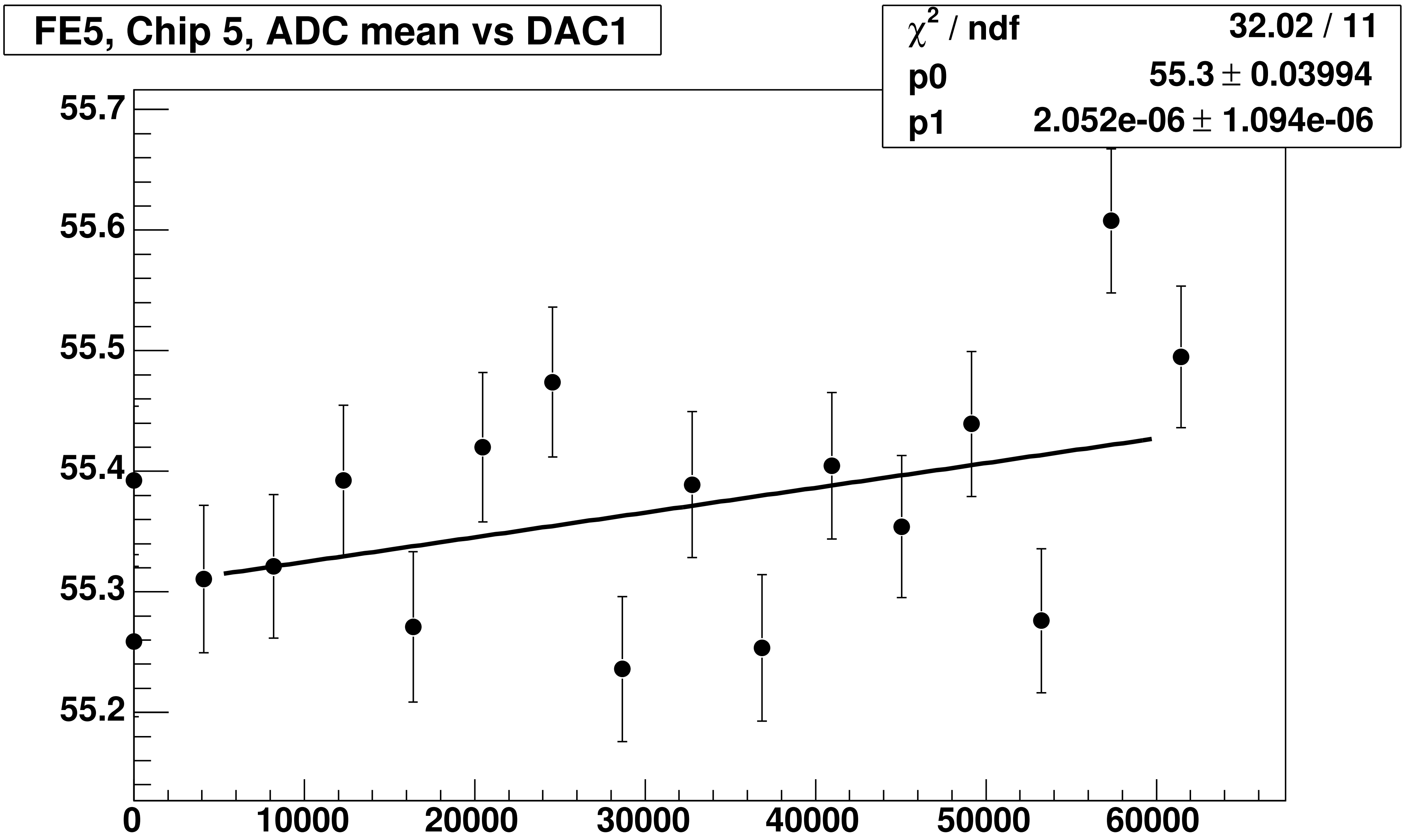

FE5, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

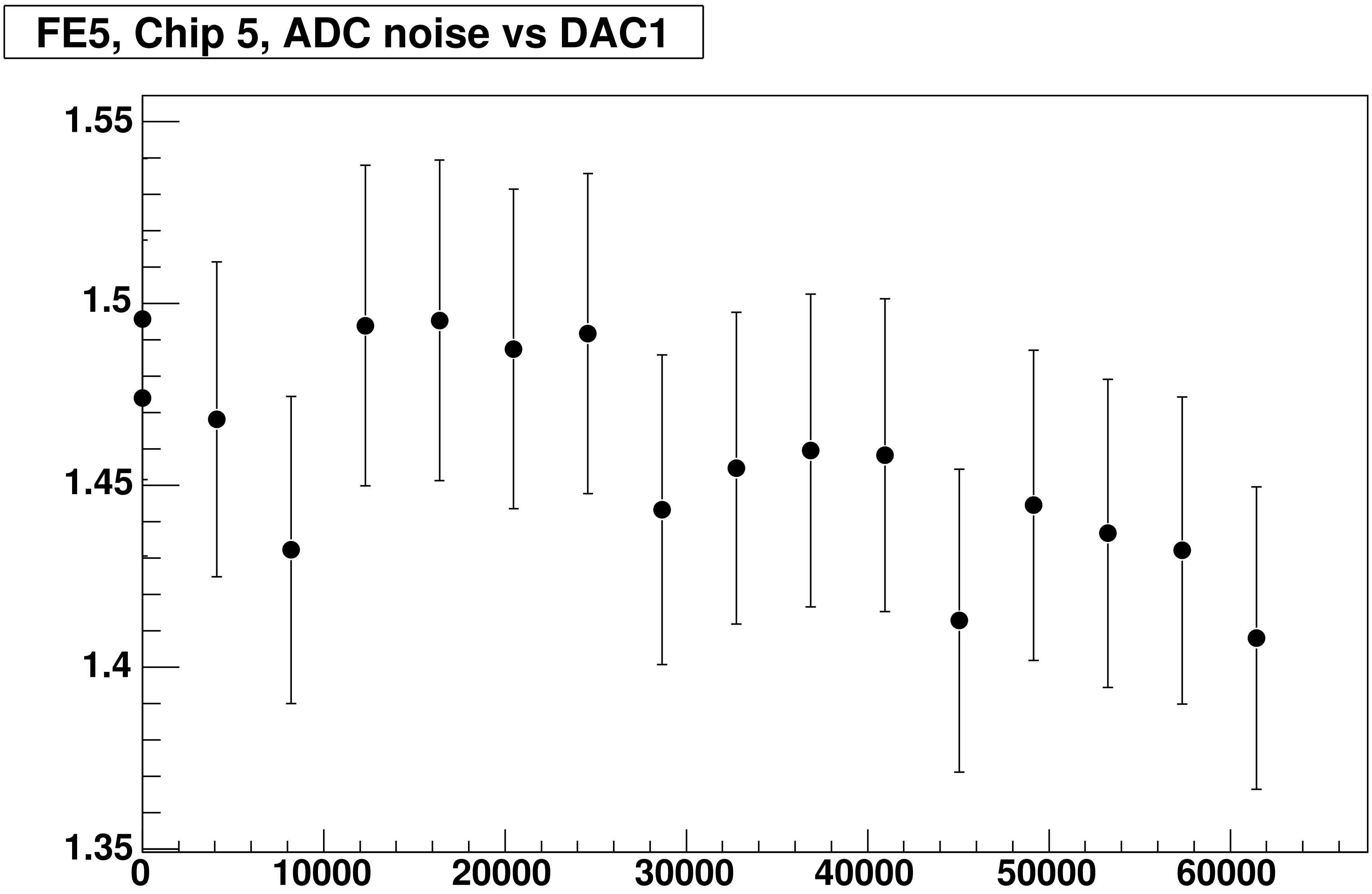


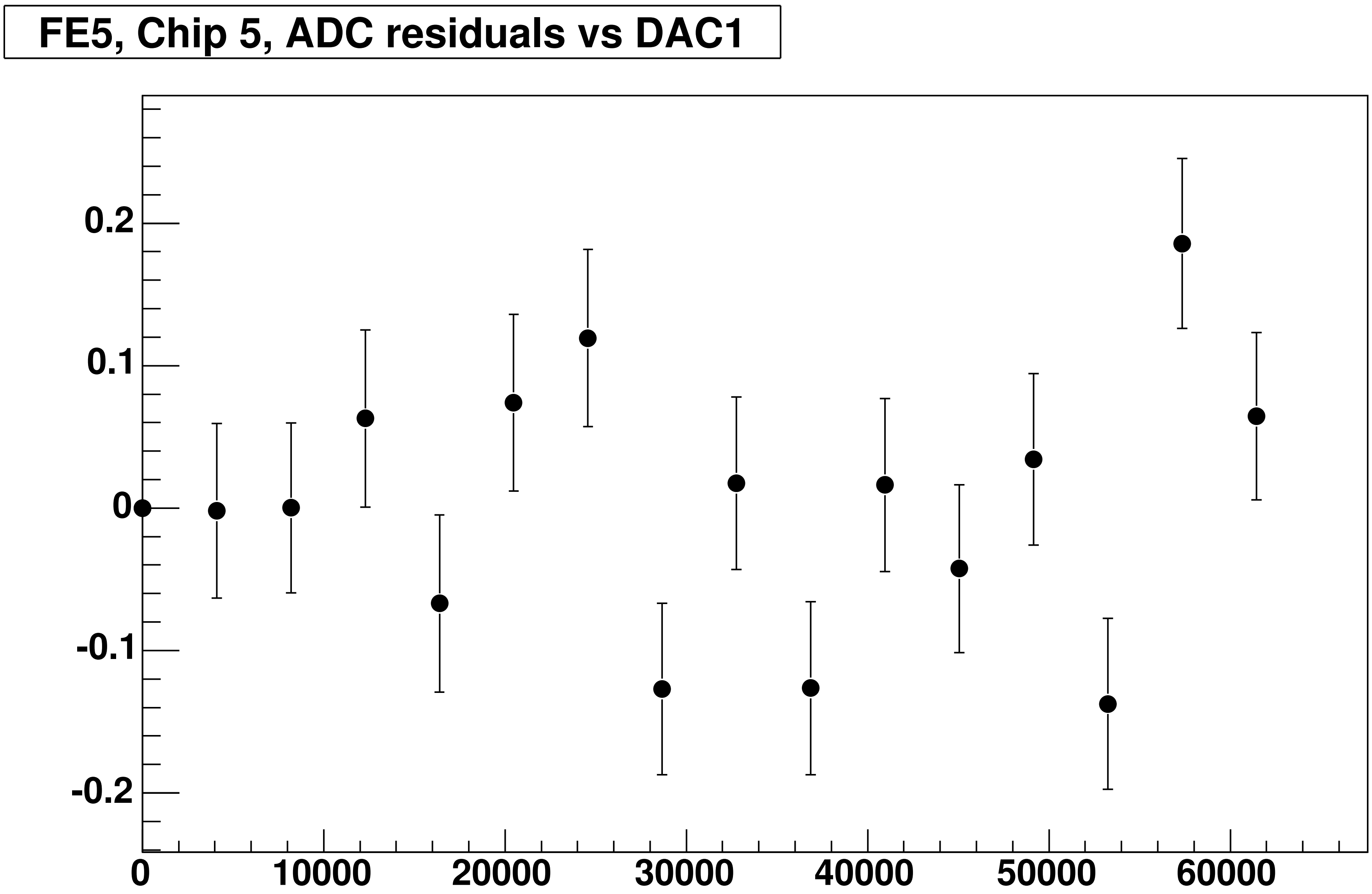
FE5, Chip 5, ADC mean vs DAC0
χ^2 / ndf 2135 / 11
p0 55.38 ± 0.04081
p1 0.4506 ± 1.302e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

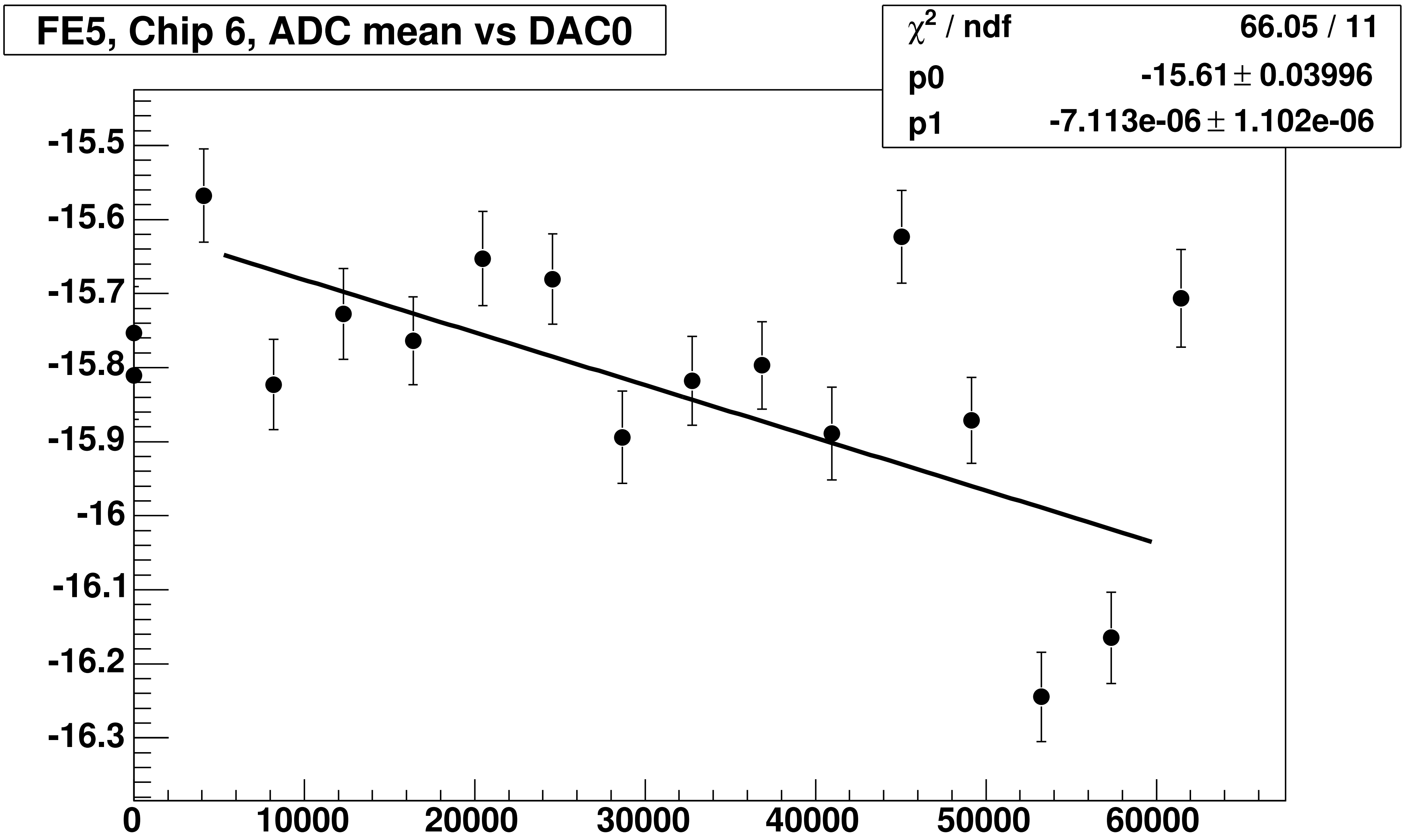

FE5, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

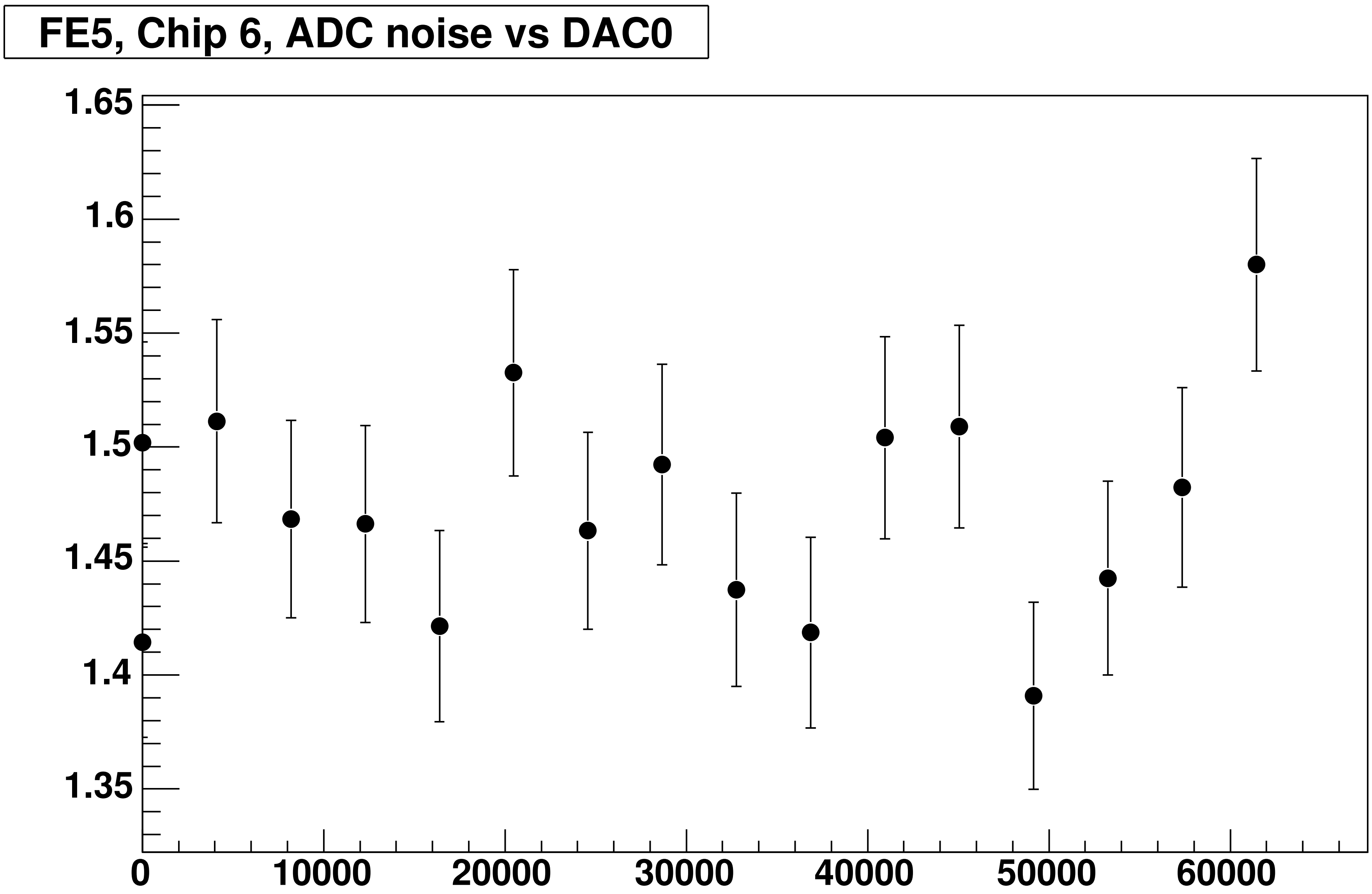

FE5, Chip 5, ADC mean vs DAC1
χ^2 / ndf 32.02 / 11
p0 55.3 ± 0.03994
p1 2.052e-06 ± 1.094e-06
55.7
55.6
55.5
55.4
55.3
55.2
0
10000
20000
30000
40000
50000
60000

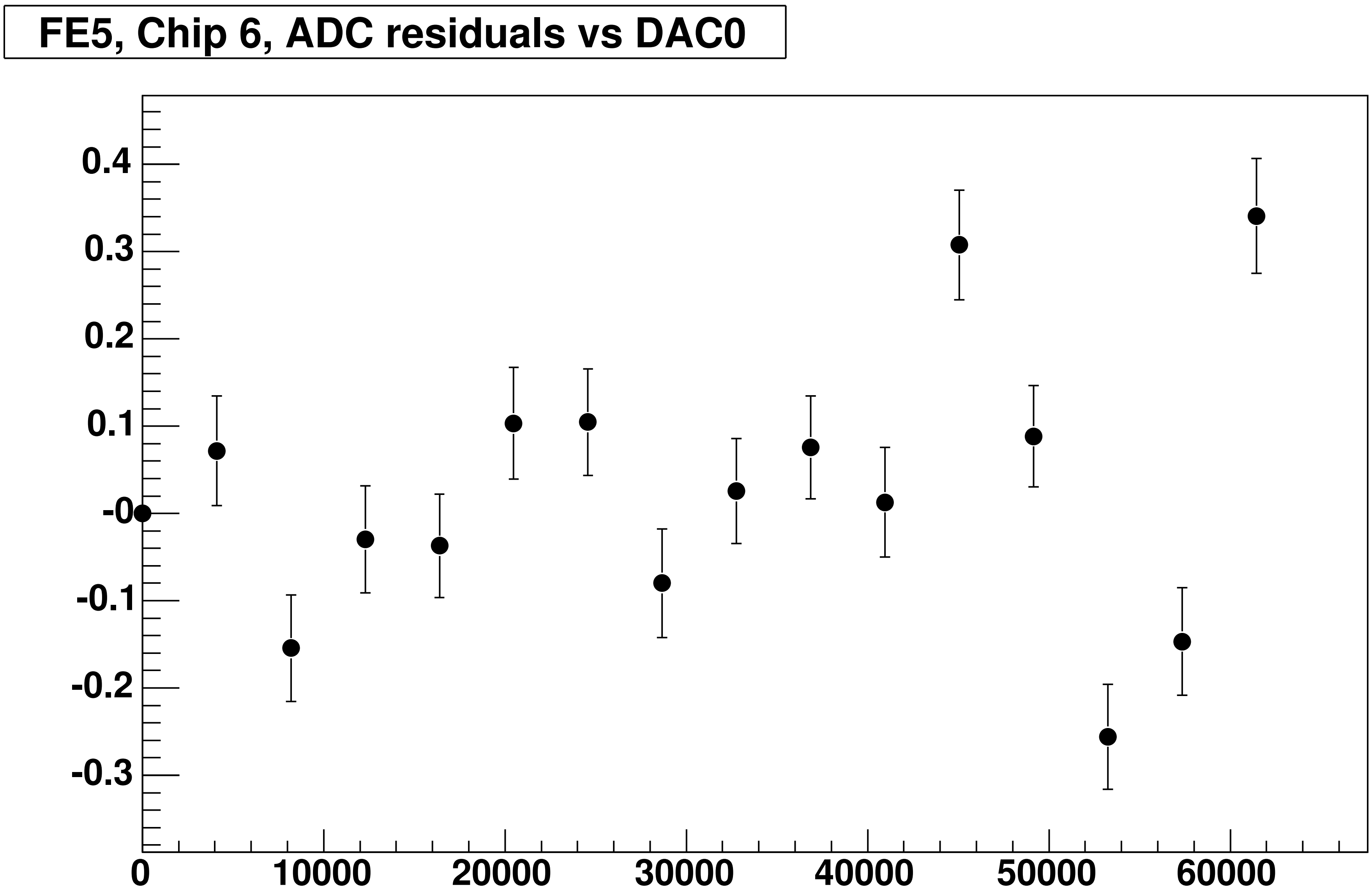

FE5, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

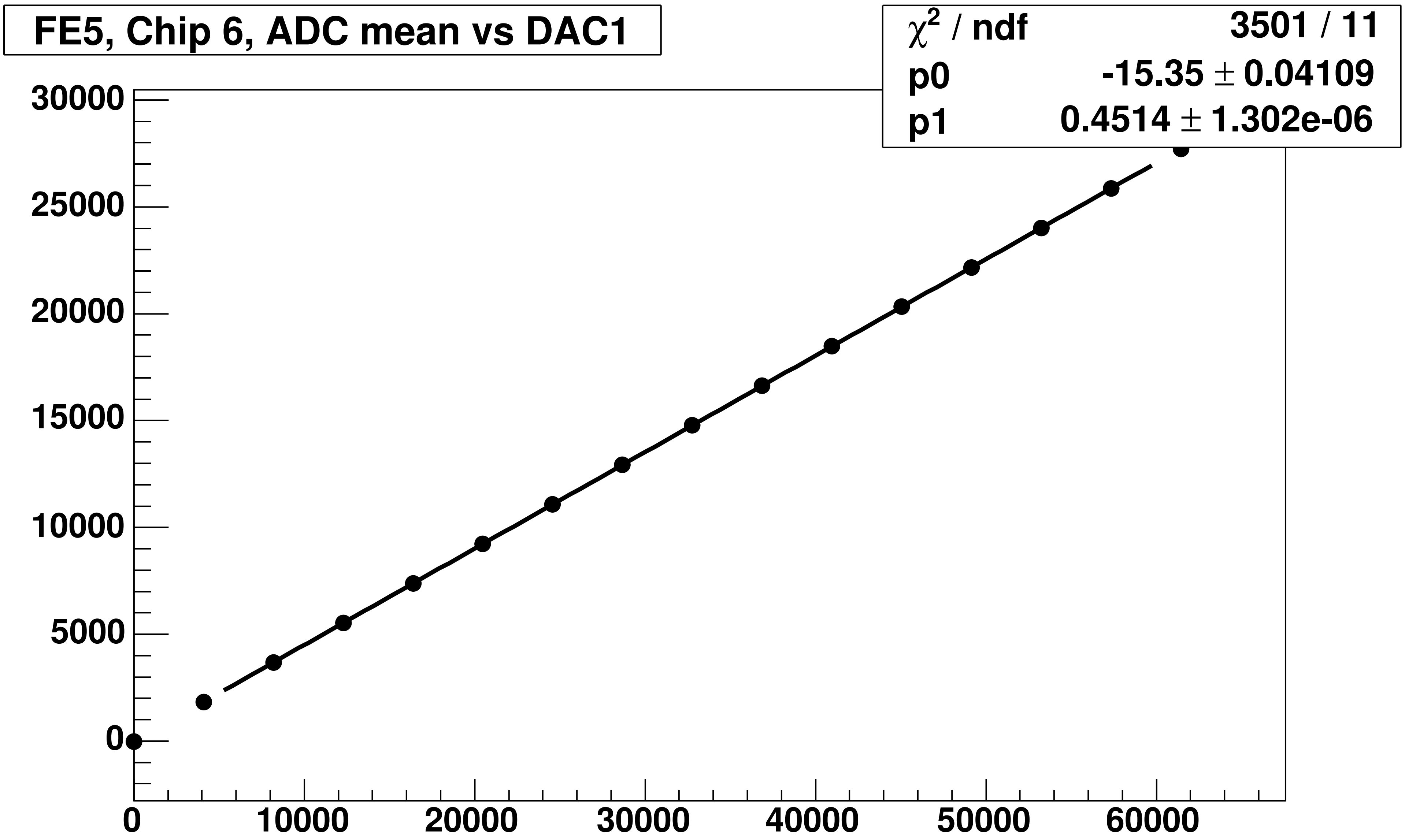


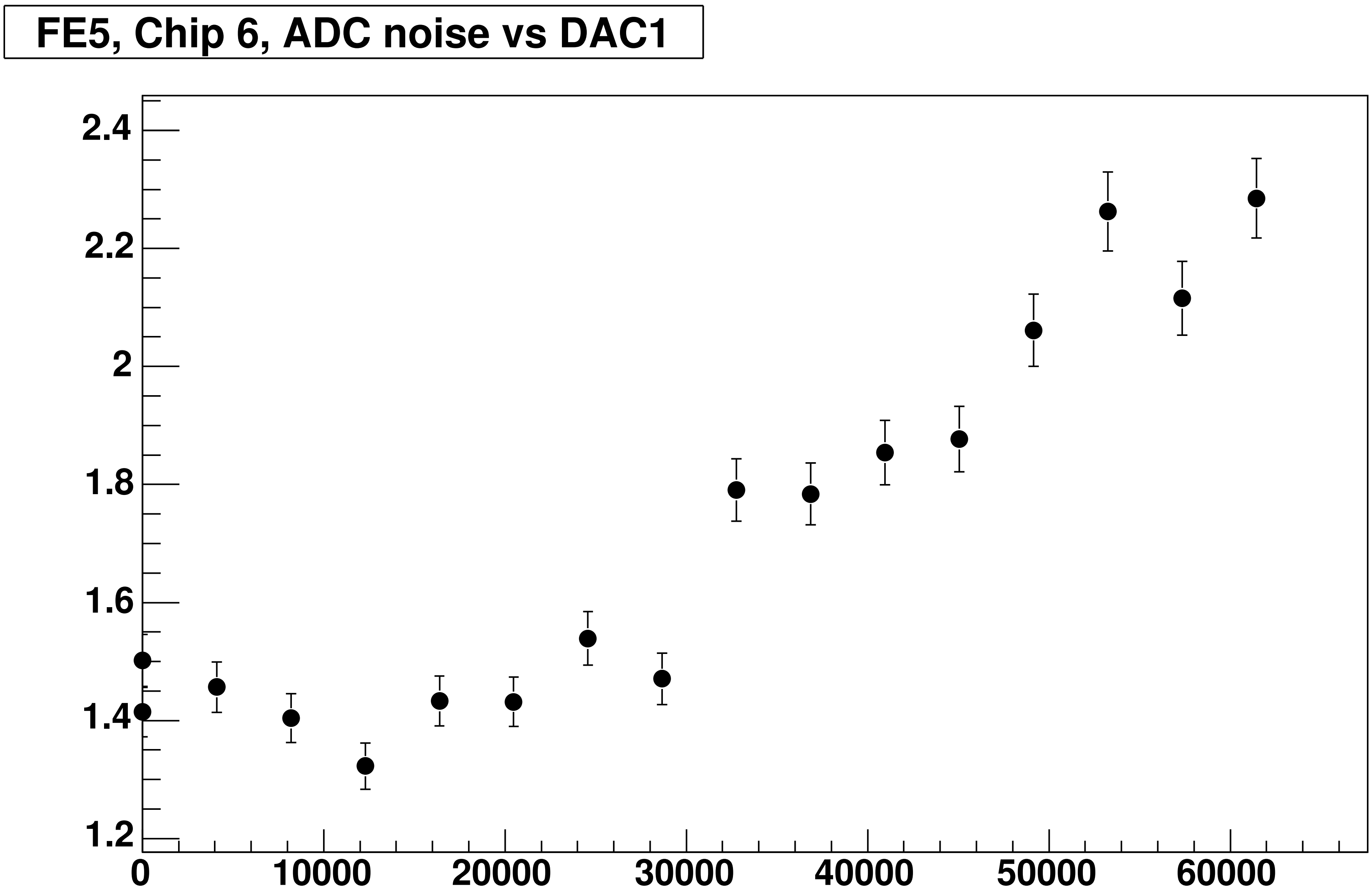
FE5, Chip 6, ADC mean vs DAC0
χ^2 / ndf 66.05 / 11
p0 -15.61 ± 0.03996
p1 -7.113e-06 ± 1.102e-06
-15.5
-15.6
-15.7
-15.8
-15.9
-16
-16.1
-16.2
-16.3
0
10000
20000
30000
40000
50000
60000

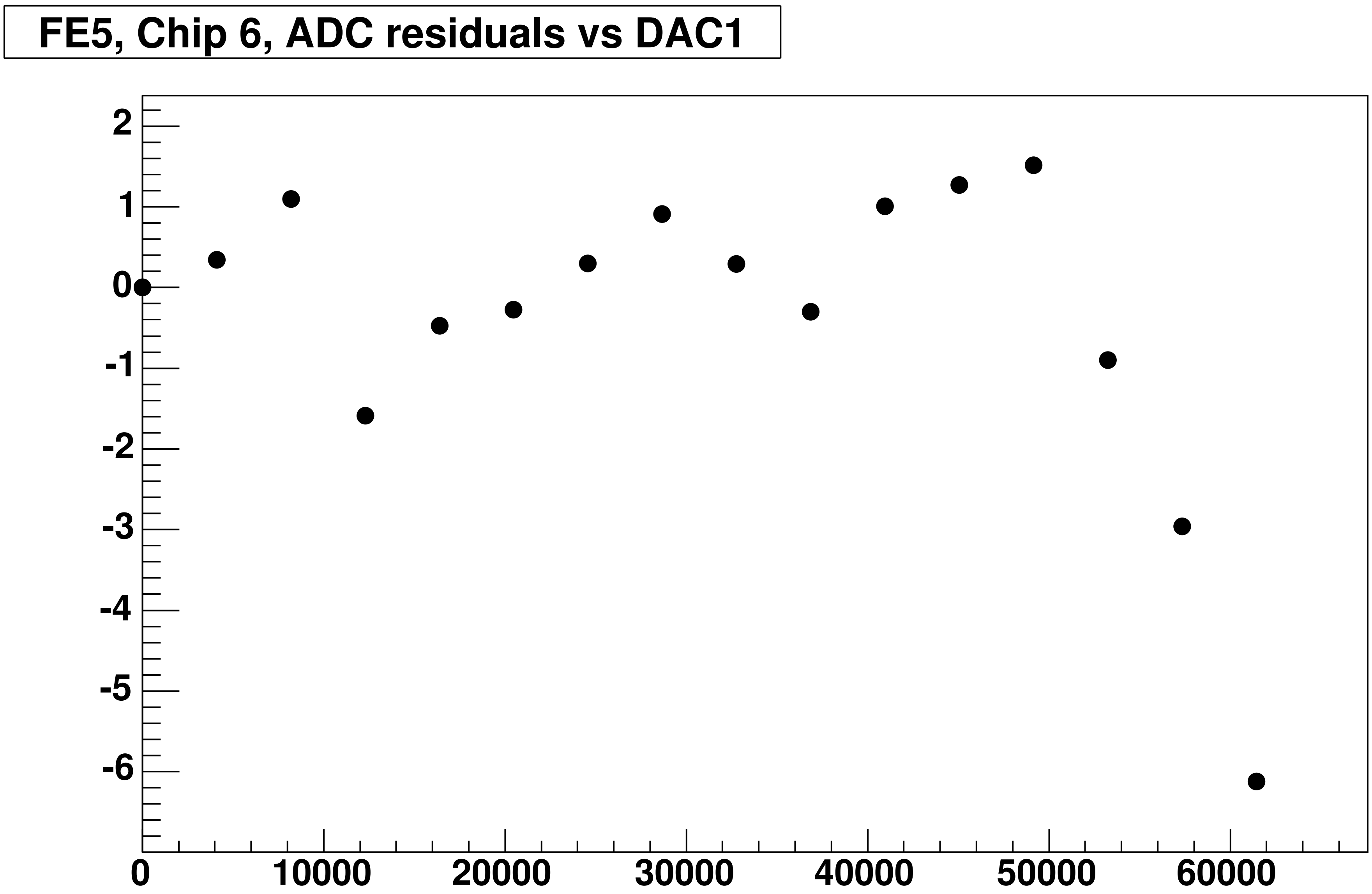

FE5, Chip 6, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

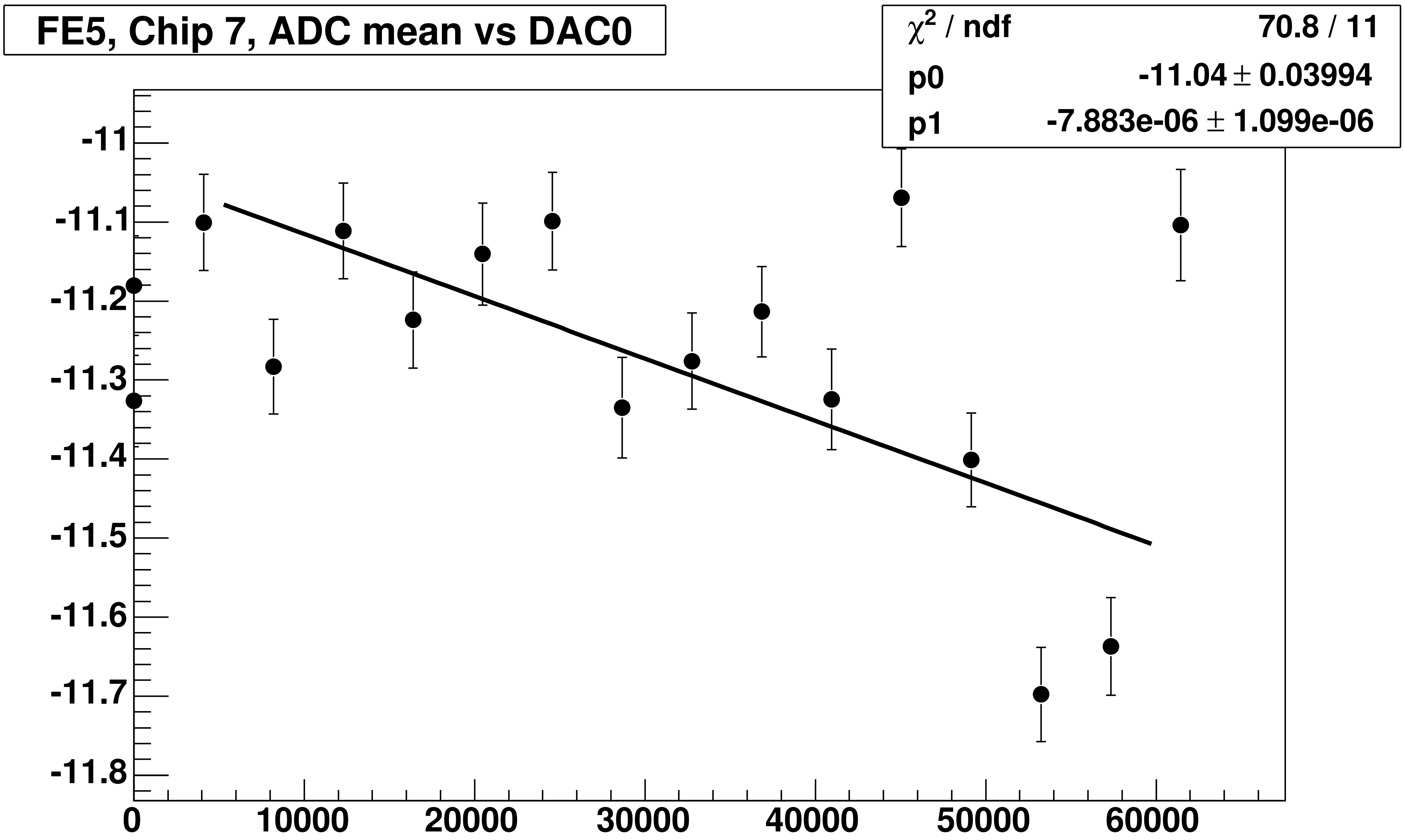


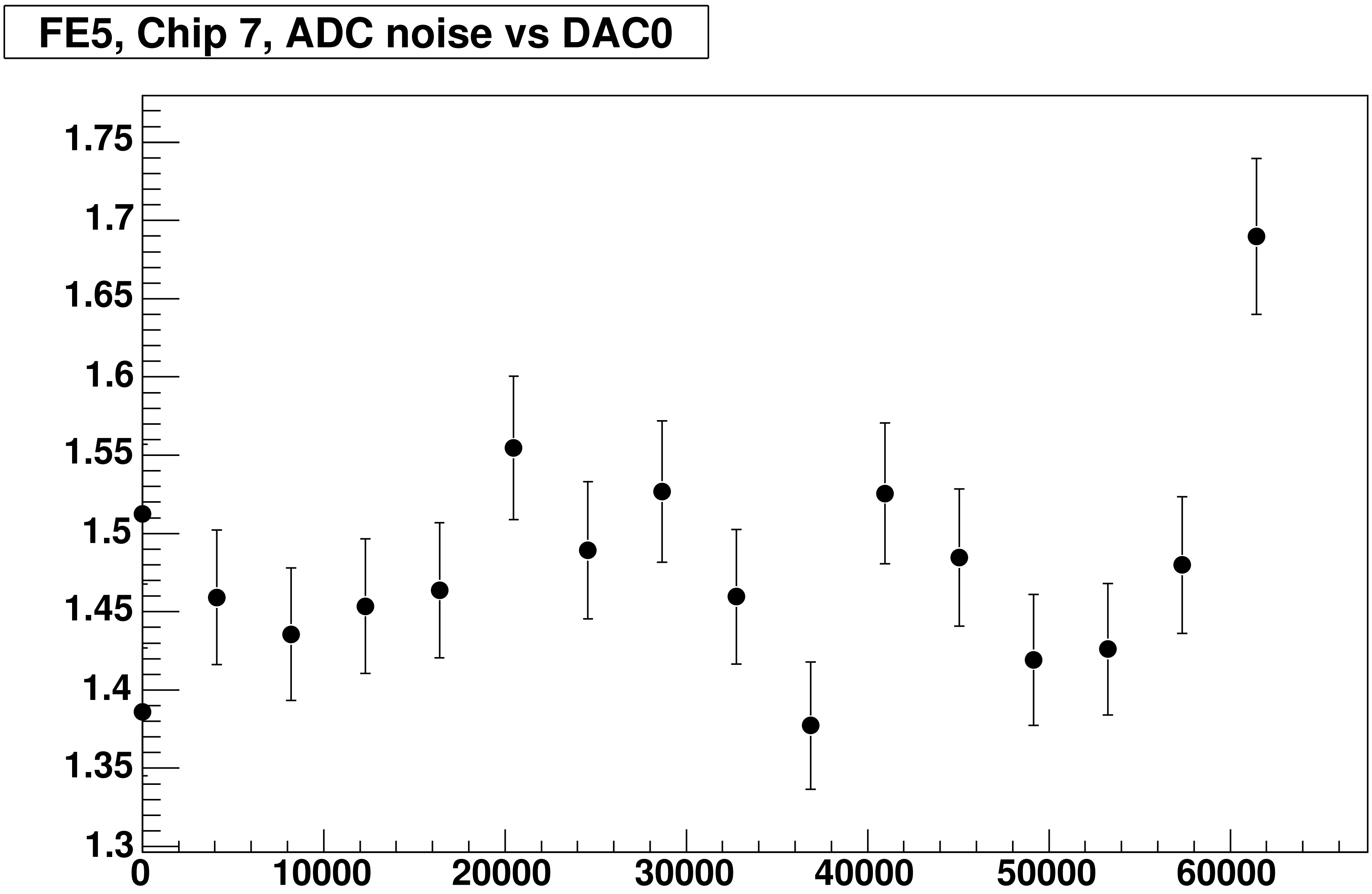
FE5, Chip 6, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE5, Chip 6, ADC mean vs DAC1
χ2 / ndf 3501 / 11
p0 -15.35 ± 0.04109
p1 0.4514 ± 1.302e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

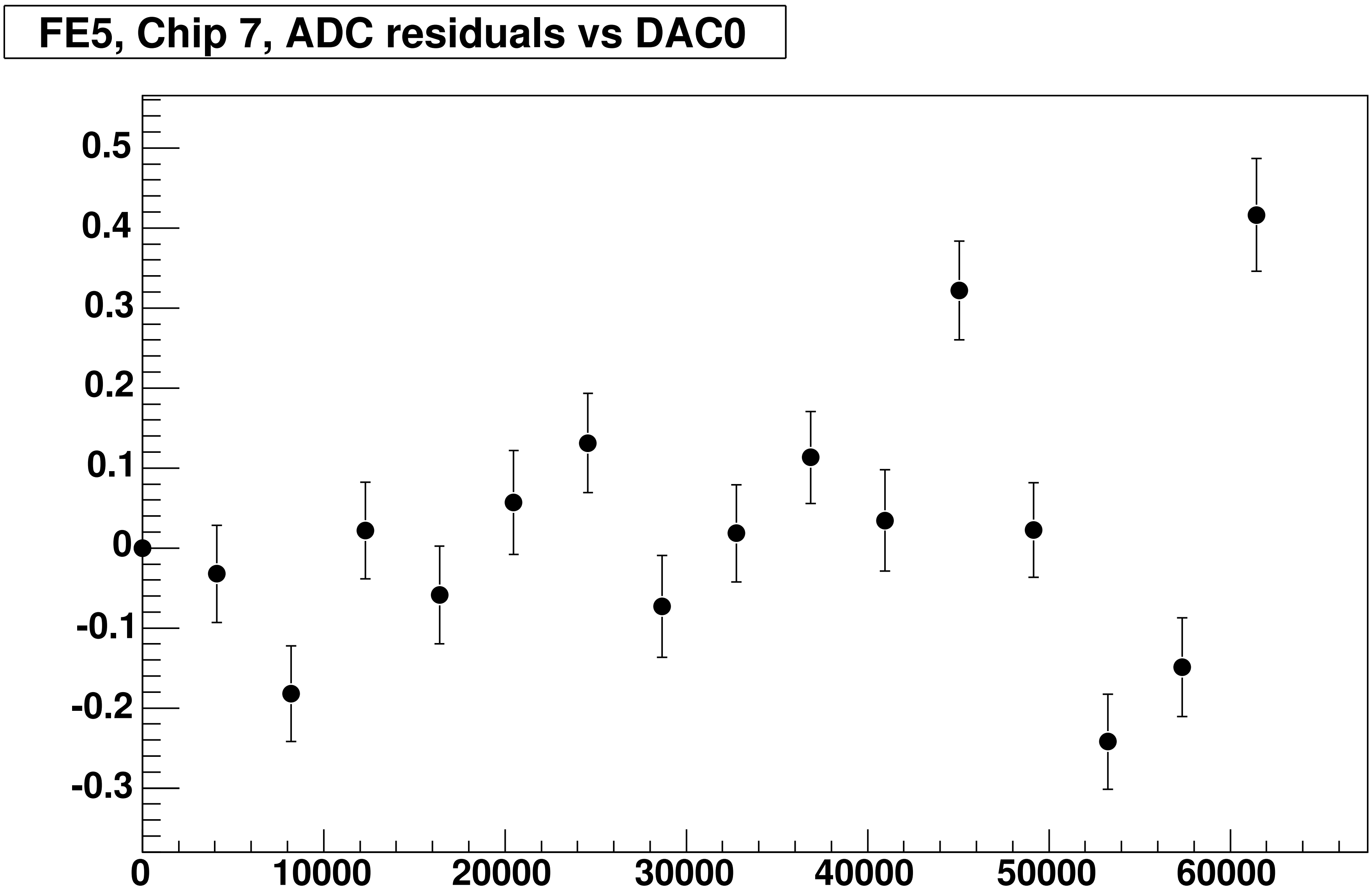

FE5, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

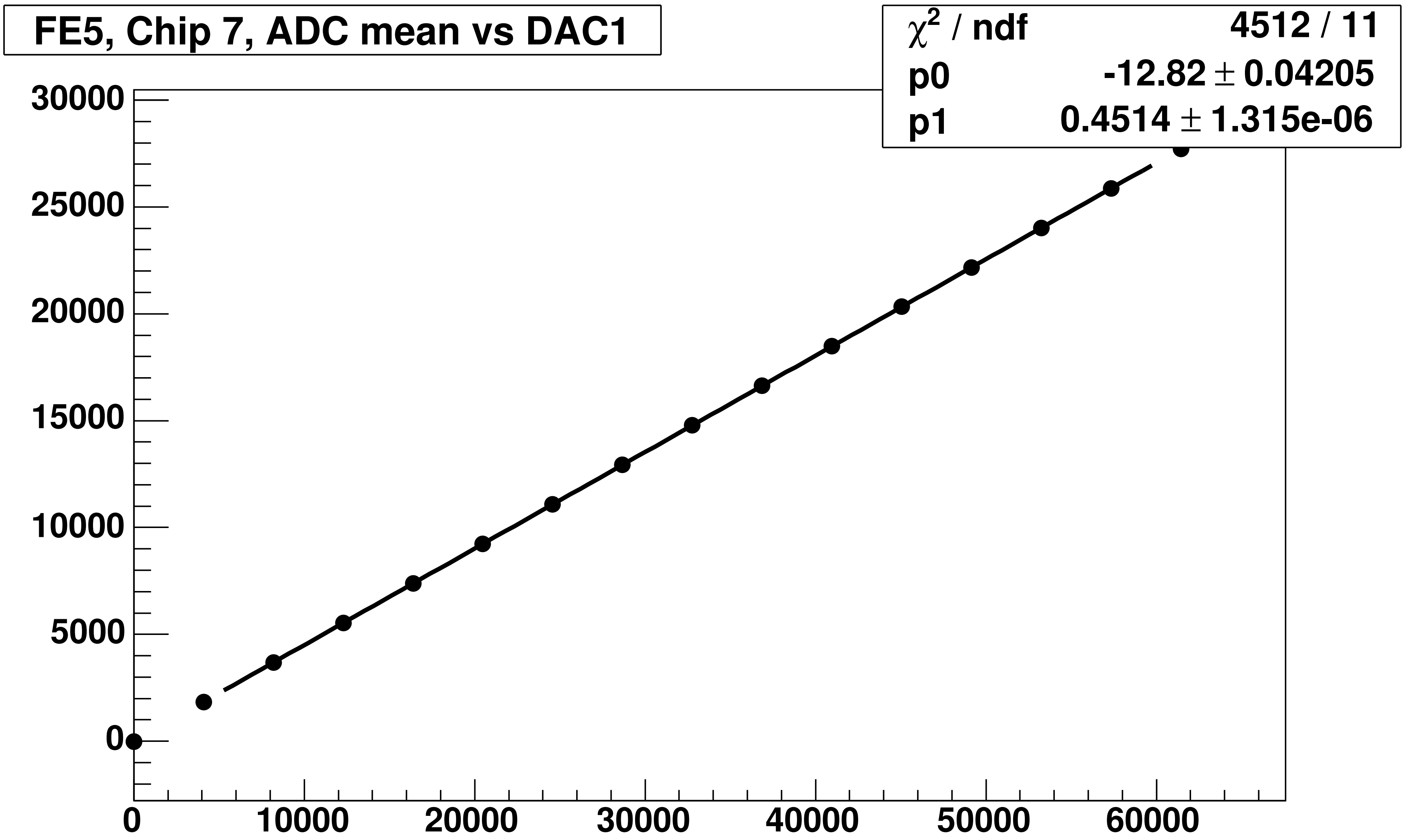

FE5, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE5, Chip 7, ADC mean vs DAC0
χ^2 / ndf 70.8 / 11
p0 -11.04 ± 0.03994
p1 -7.883e-06 ± 1.099e-06
-11
-11.1
-11.2
-11.3
-11.4
-11.5
-11.6
-11.7
-11.8
0
10000
20000
30000
40000
50000
60000

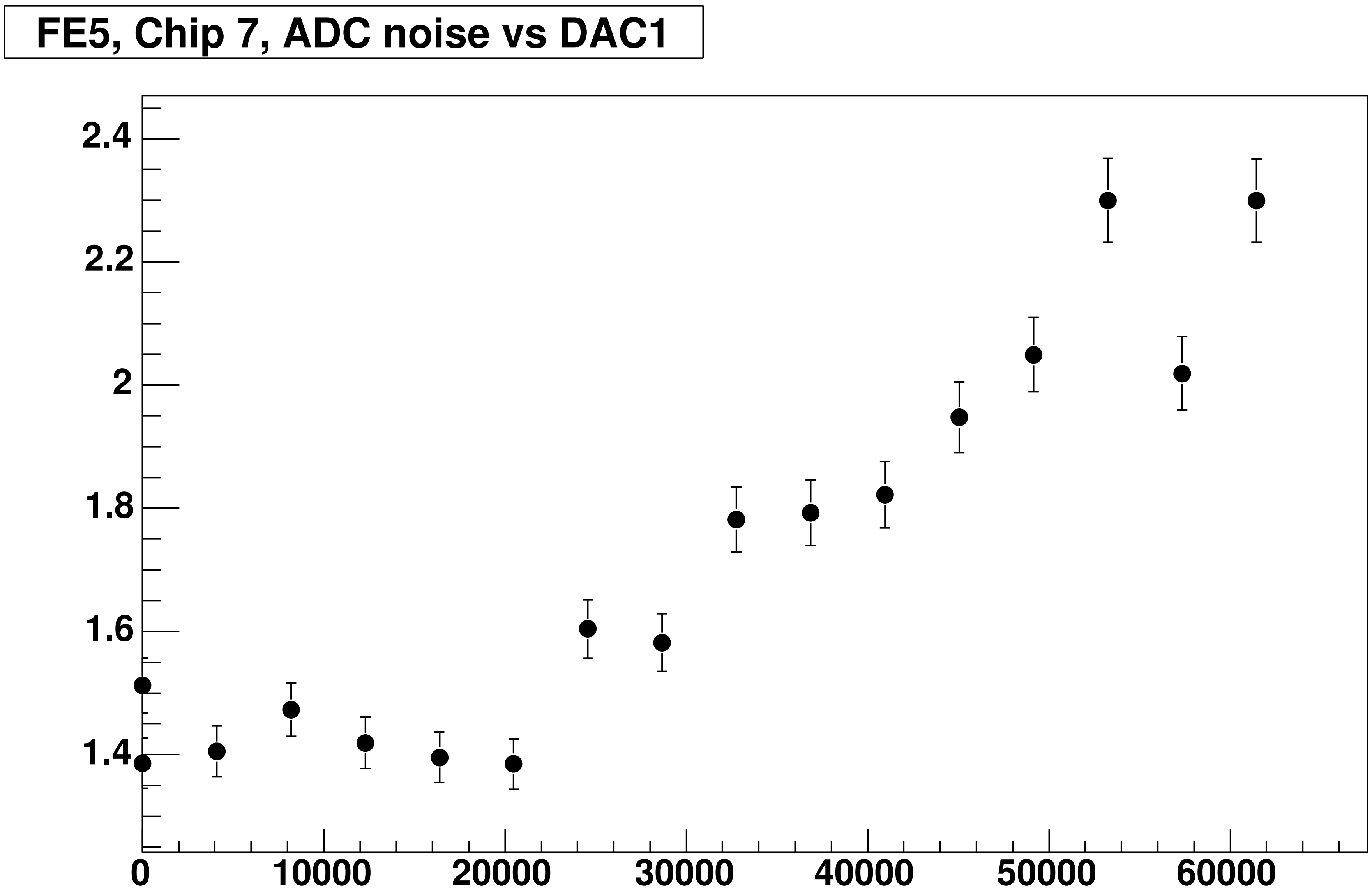


FE5, Chip 7, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


FE5, Chip 7, ADC residuals vs DAC0
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

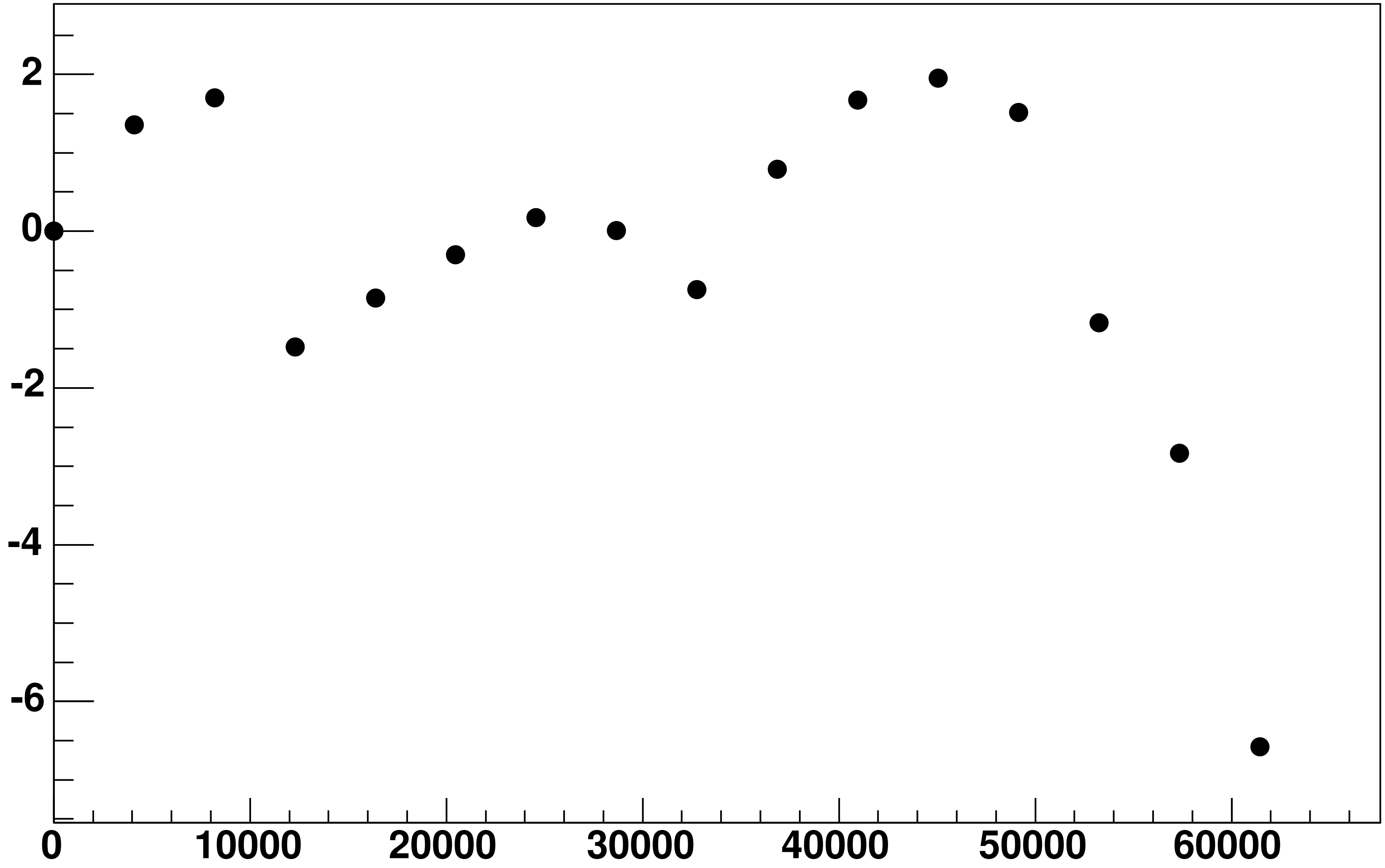


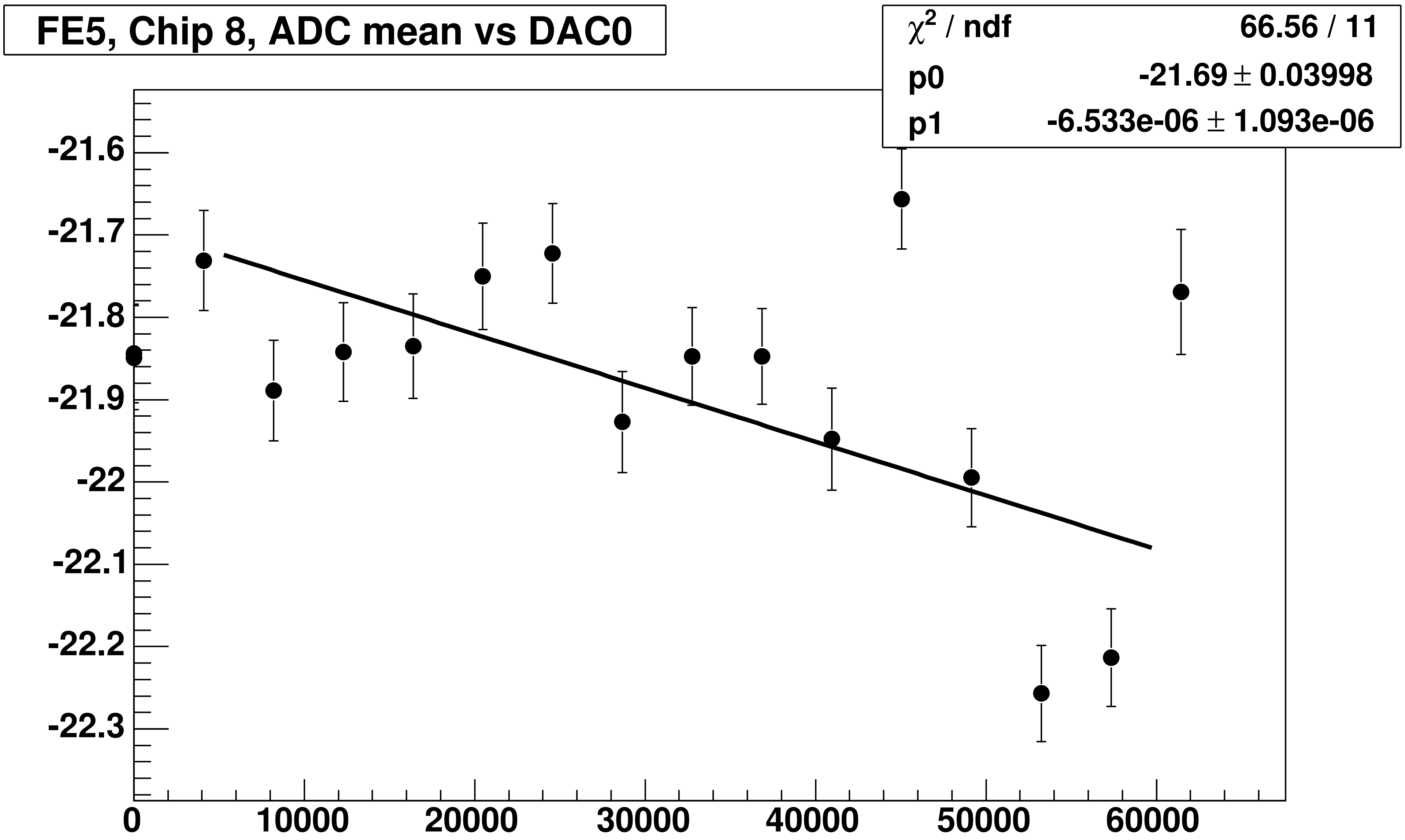
FE5, Chip 7, ADC mean vs DAC1
χ^2 / ndf 4512 / 11
p0 -12.82 ± 0.04205
p1 0.4514 ± 1.315e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



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

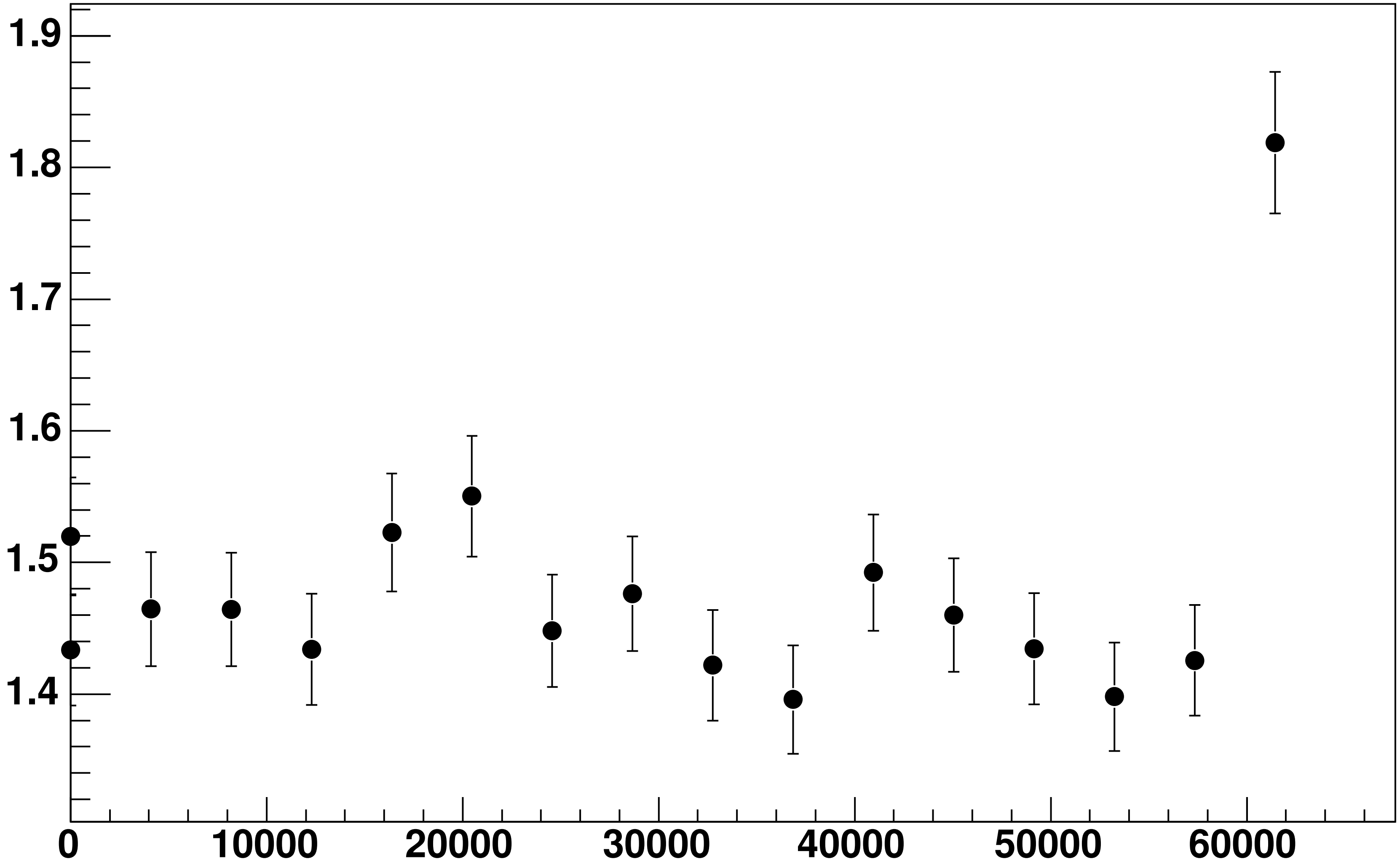
FE5, Chip 7, ADC residuals vs DAC1

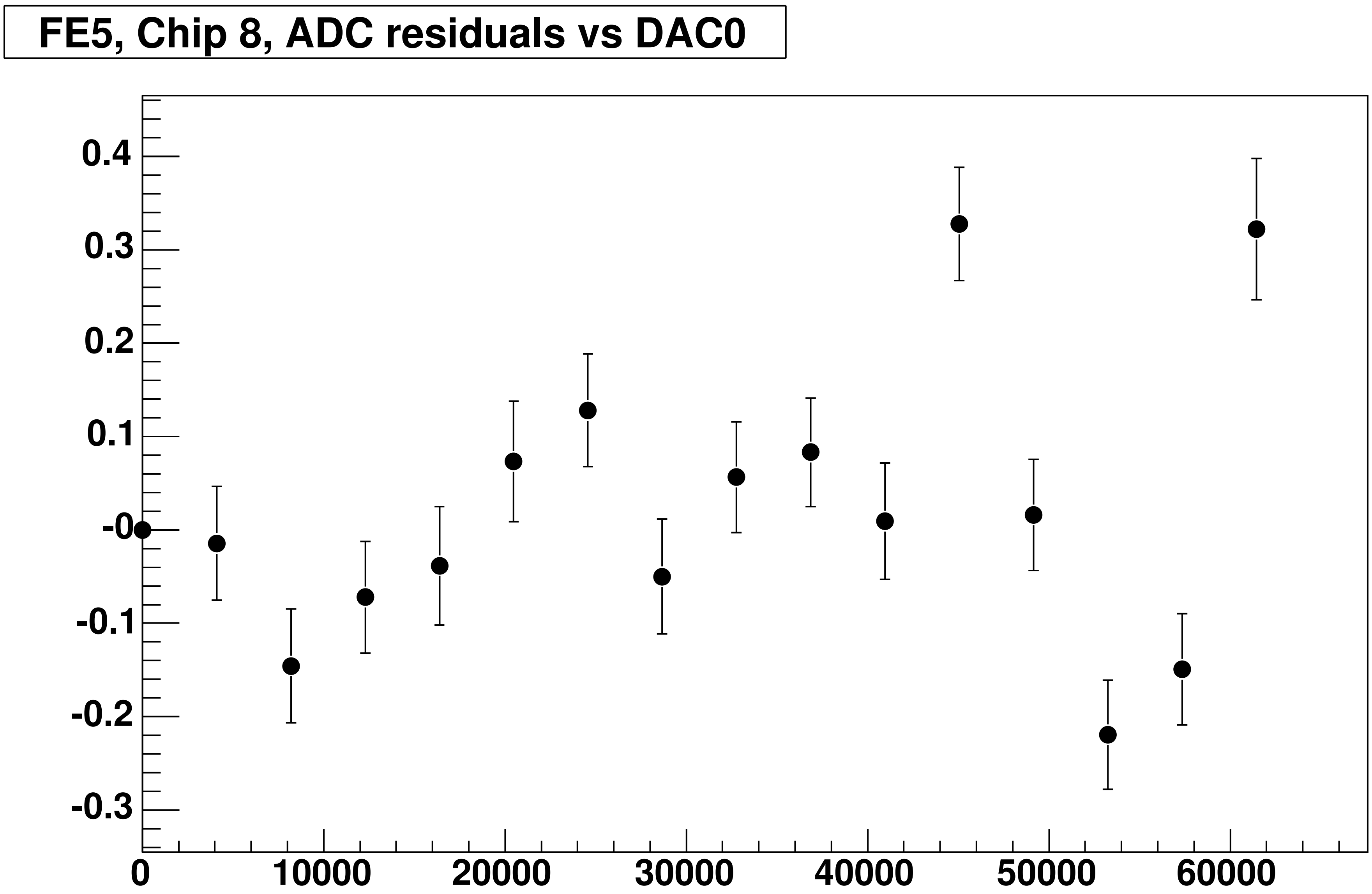


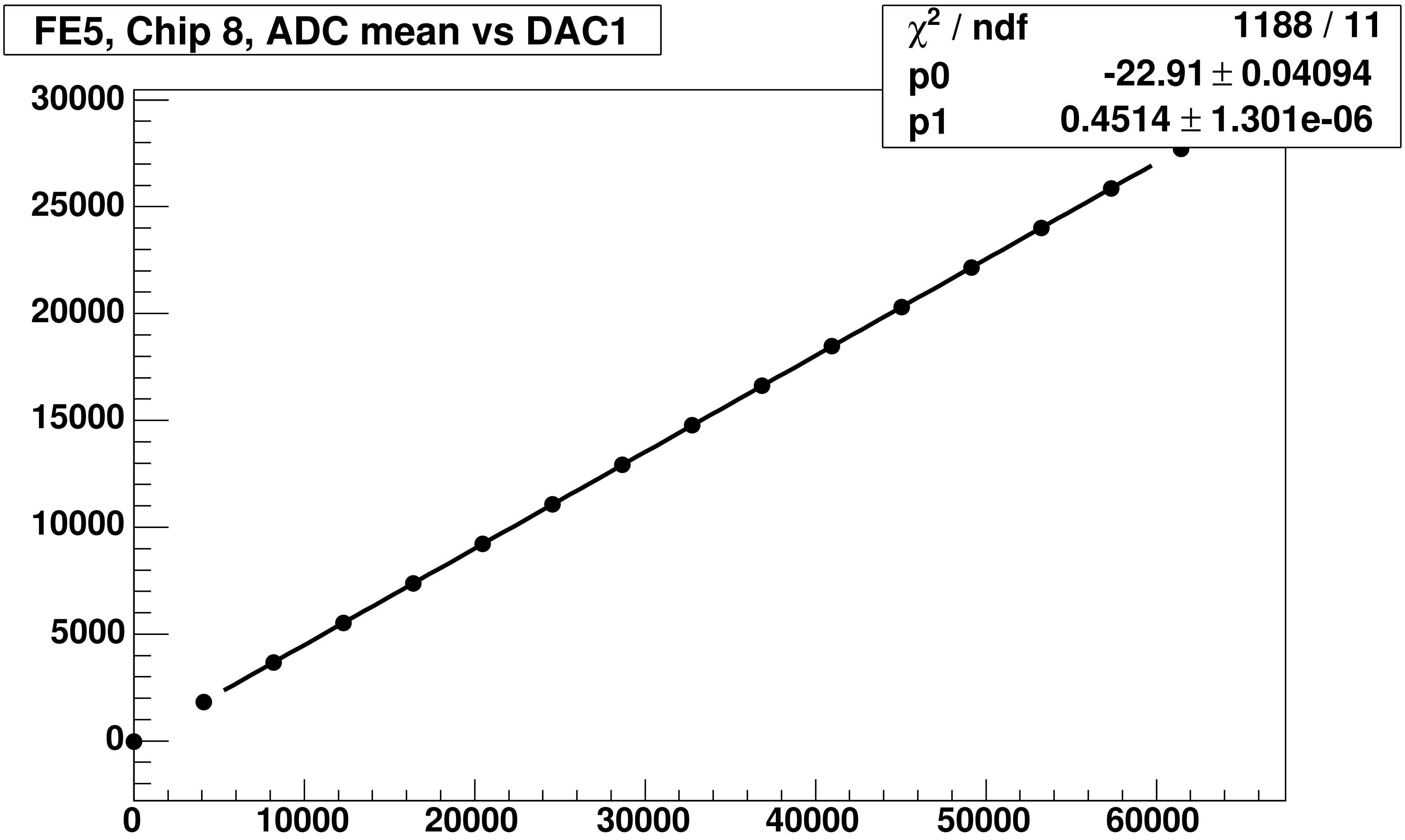


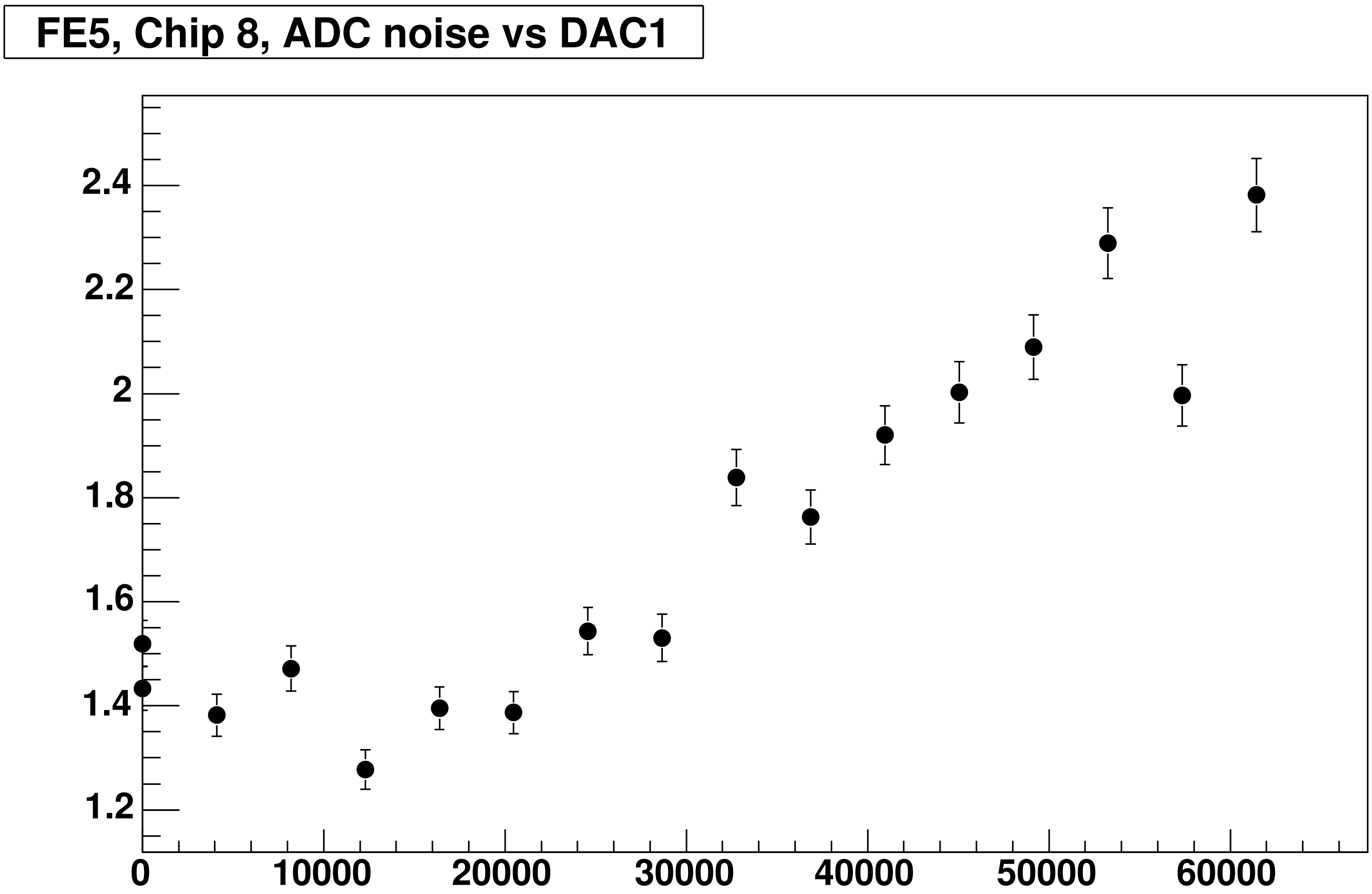
FE5, Chip 8, ADC mean vs DAC0
χ^2 / ndf 66.56 / 11
p0 -21.69 ± 0.03998
p1 -6.533e-06 ± 1.093e-06
-21.6
-21.7
-21.8
-21.9
-22
-22.1
-22.2
-22.3
0
10000
20000
30000
40000
50000
60000

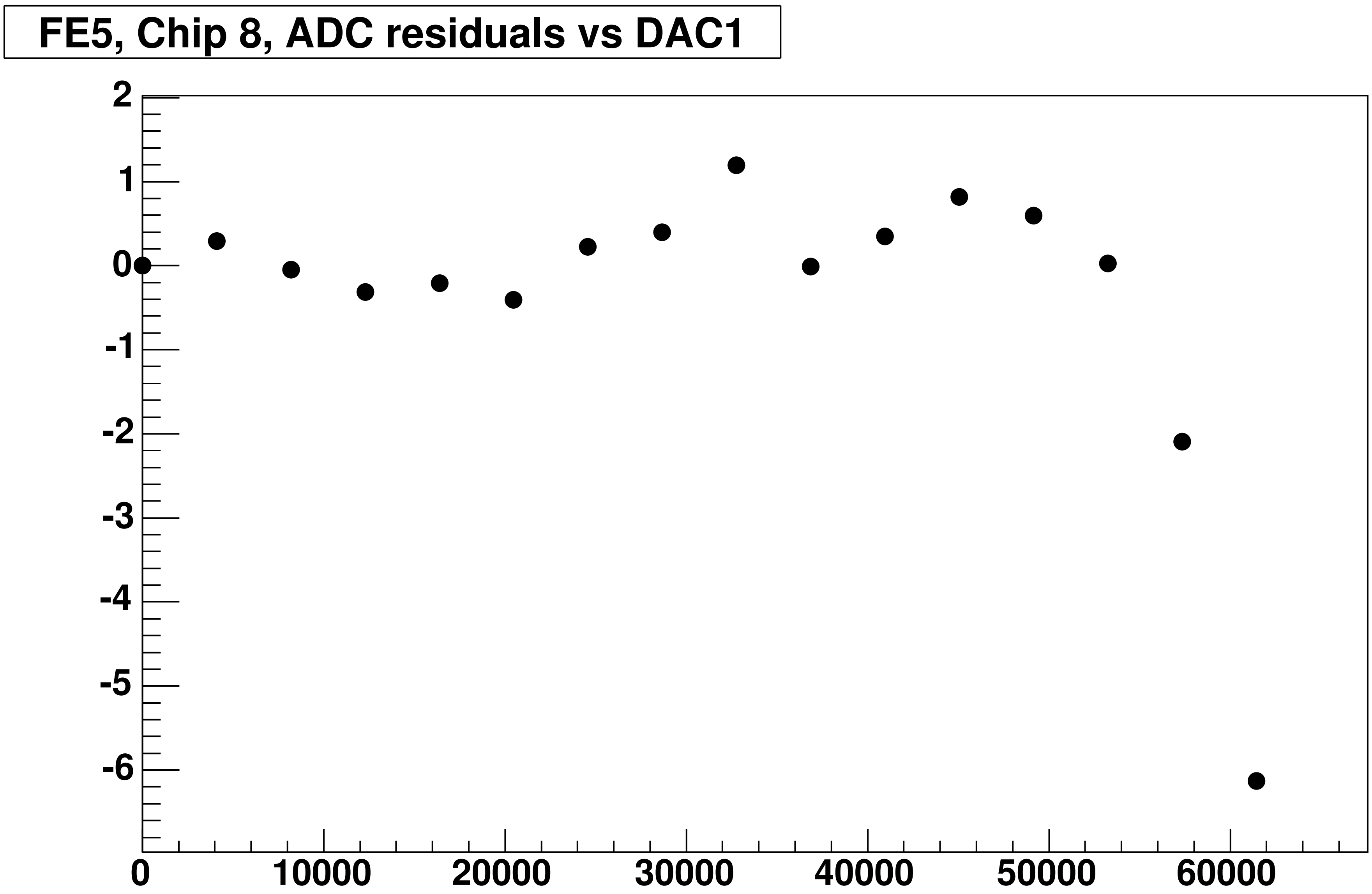
FE5, Chip 8, ADC noise vs DAC0



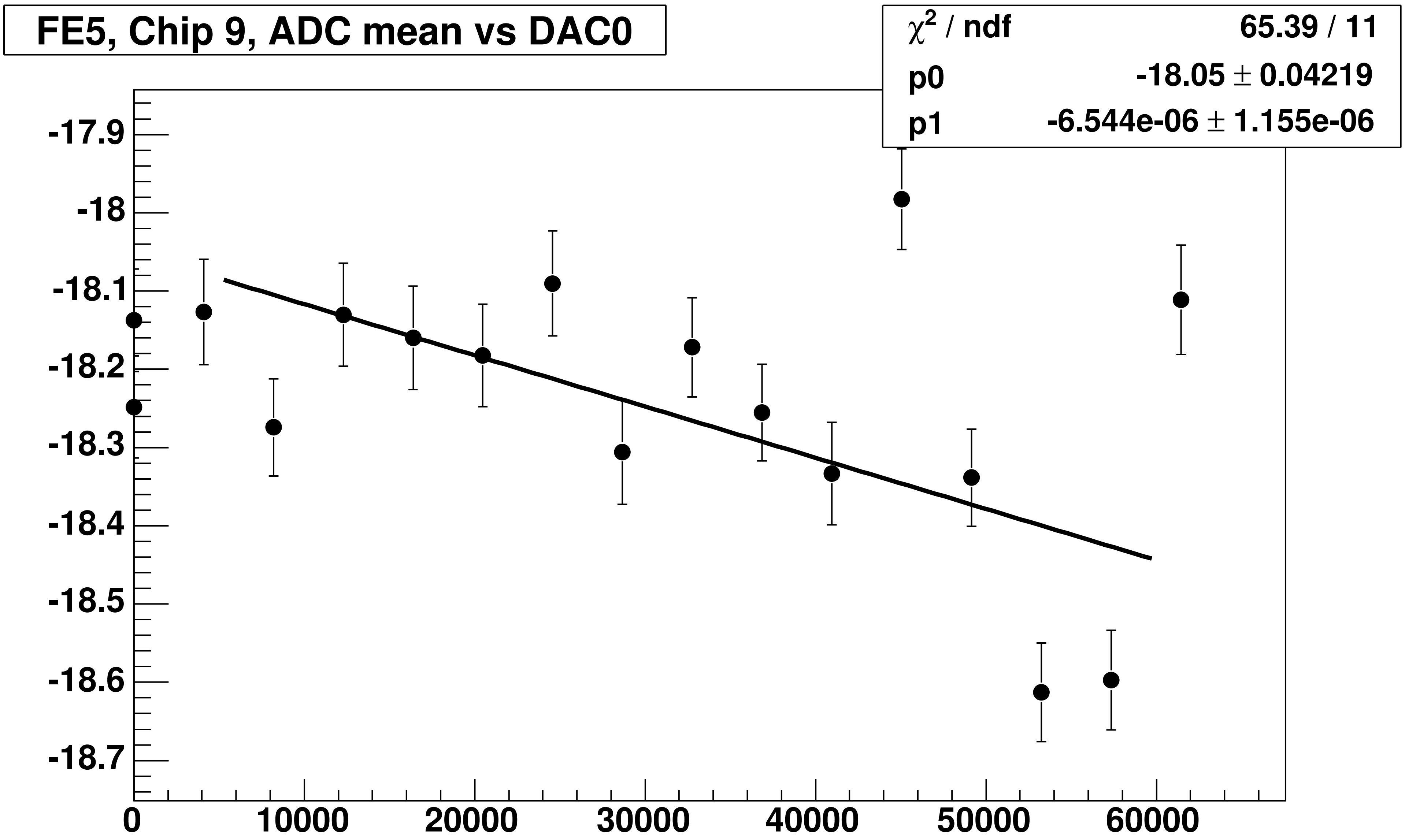

FE5, Chip 8, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

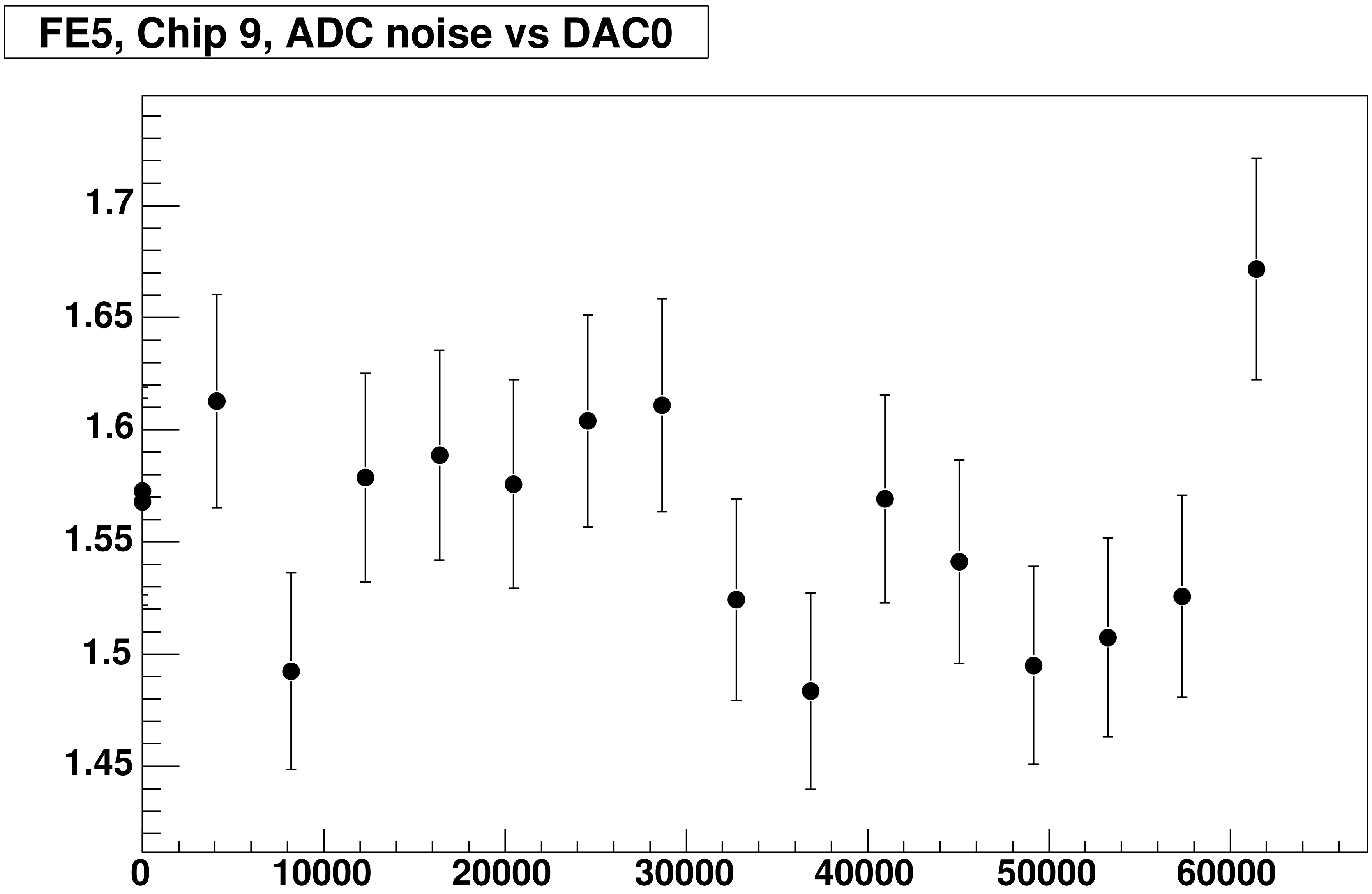

FE5, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1188 / 11
p0 -22.91 ± 0.04094
p1 0.4514 ± 1.301e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

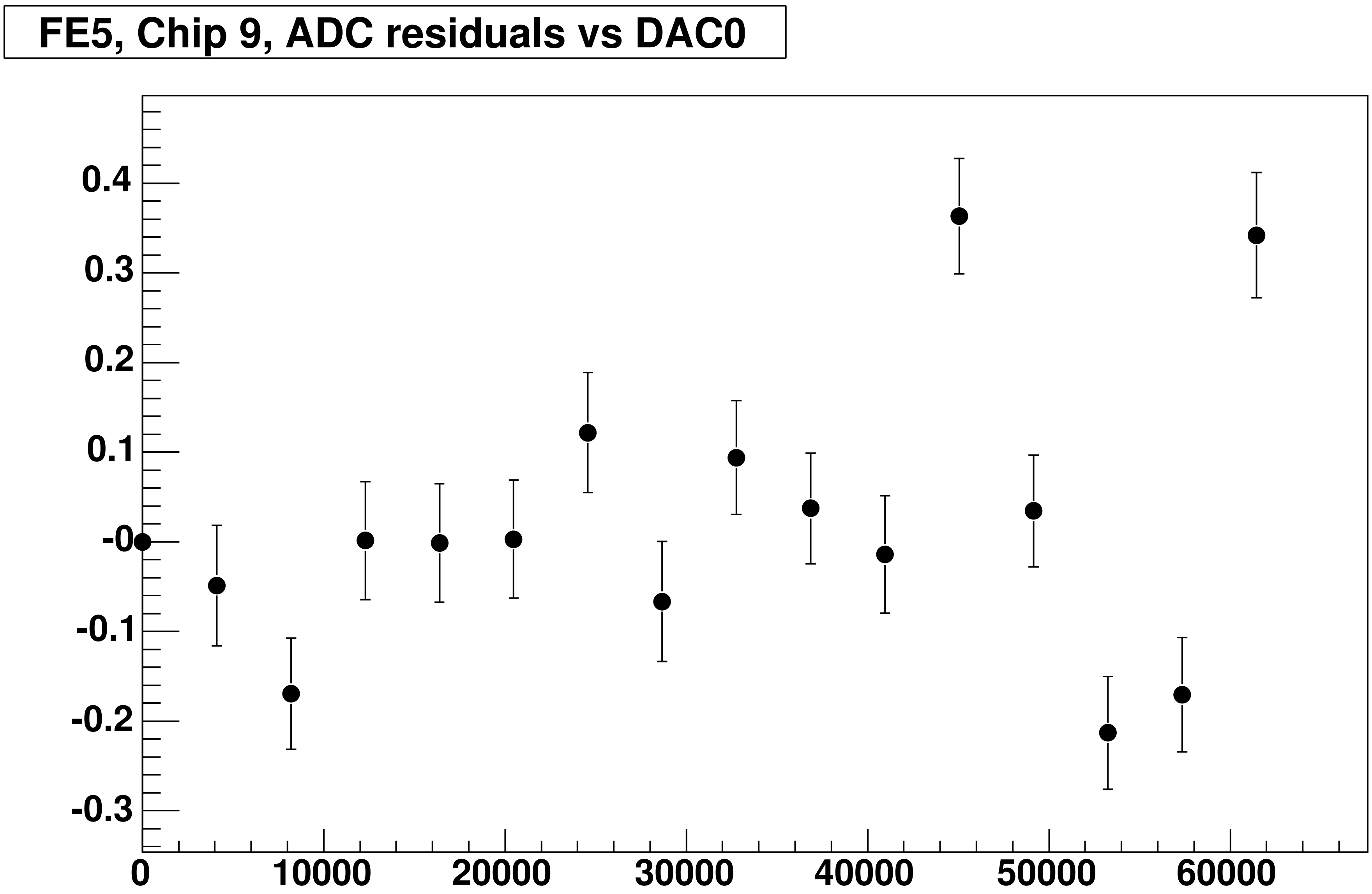

FE5, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

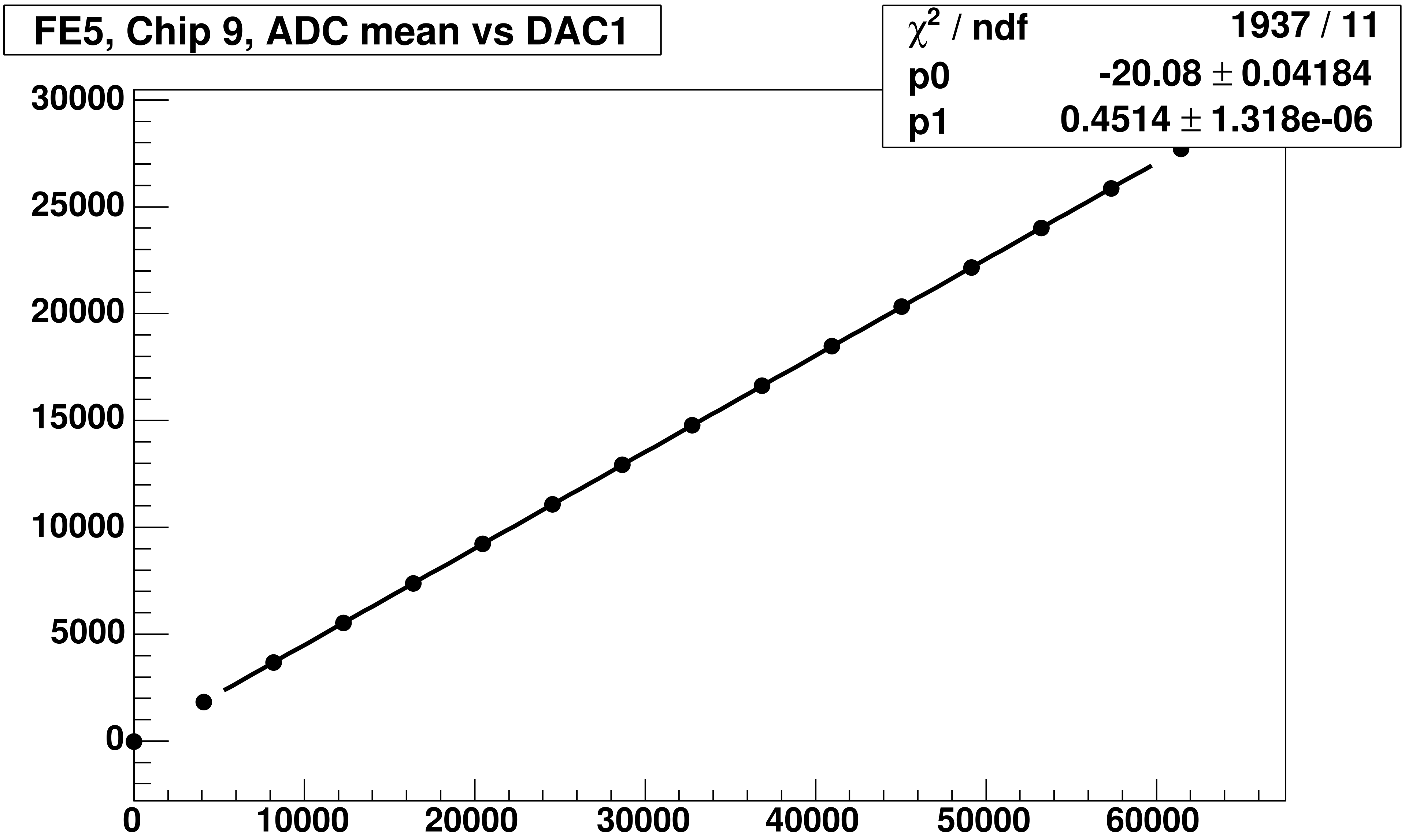


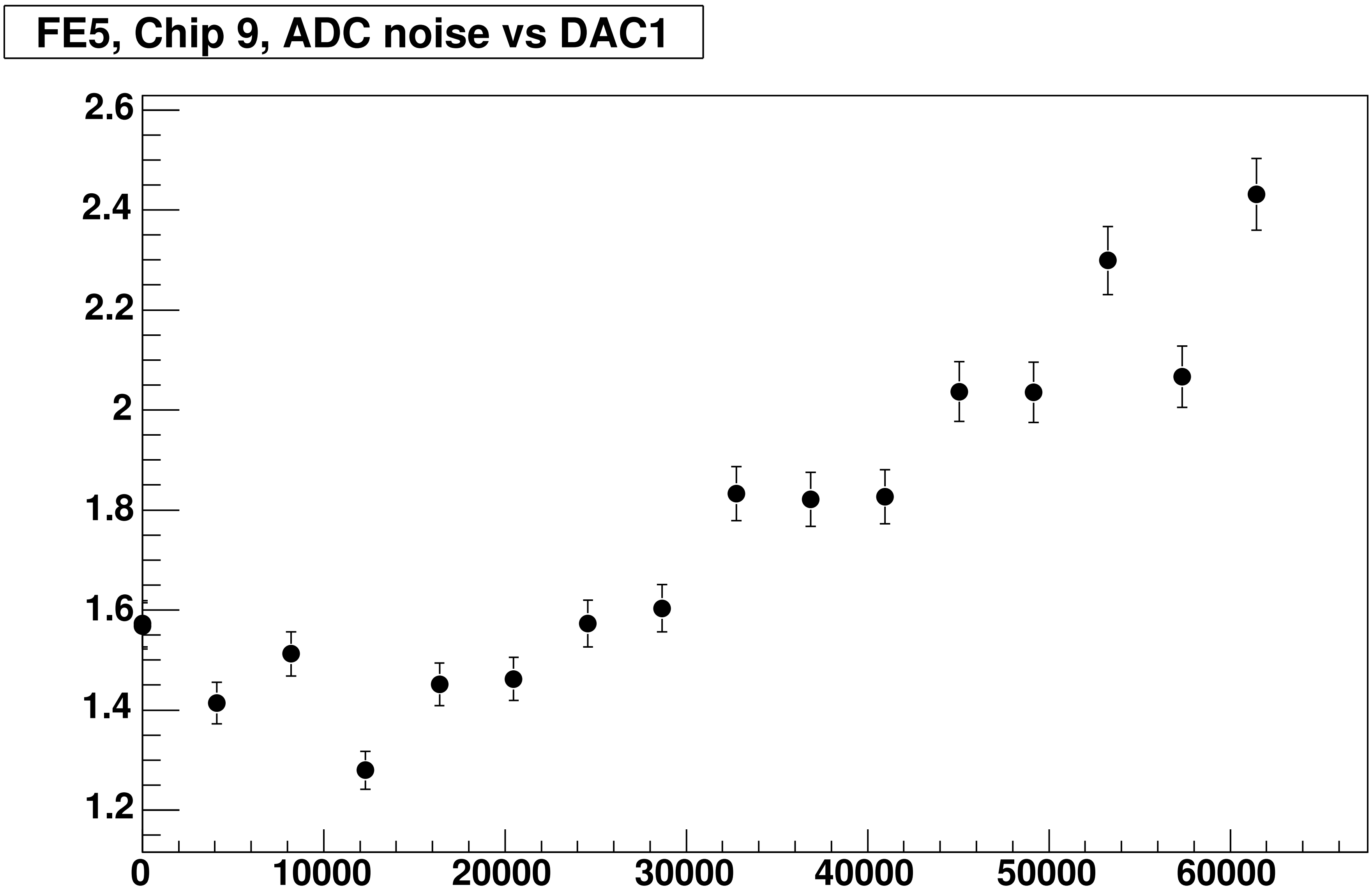
FE5, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE5, Chip 9, ADC mean vs DAC0
χ2 / ndf 65.39 / 11
p0 -18.05 ± 0.04219
p1 -6.544e-06 ± 1.155e-06
-17.9
-18
-18.1
-18.2
-18.3
-18.4
-18.5
-18.6
-18.7
0
10000
20000
30000
40000
50000
60000

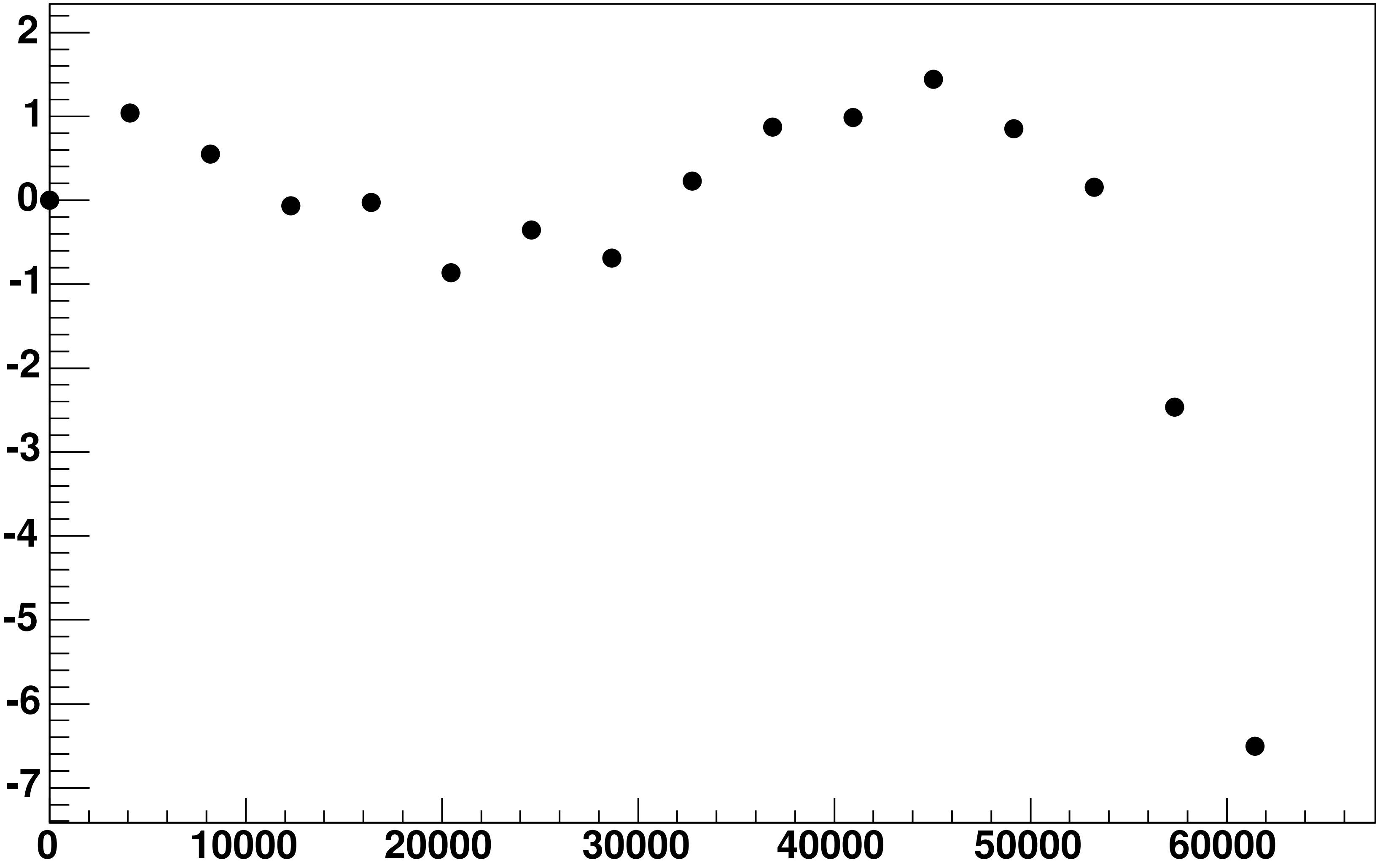

FE5, Chip 9, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

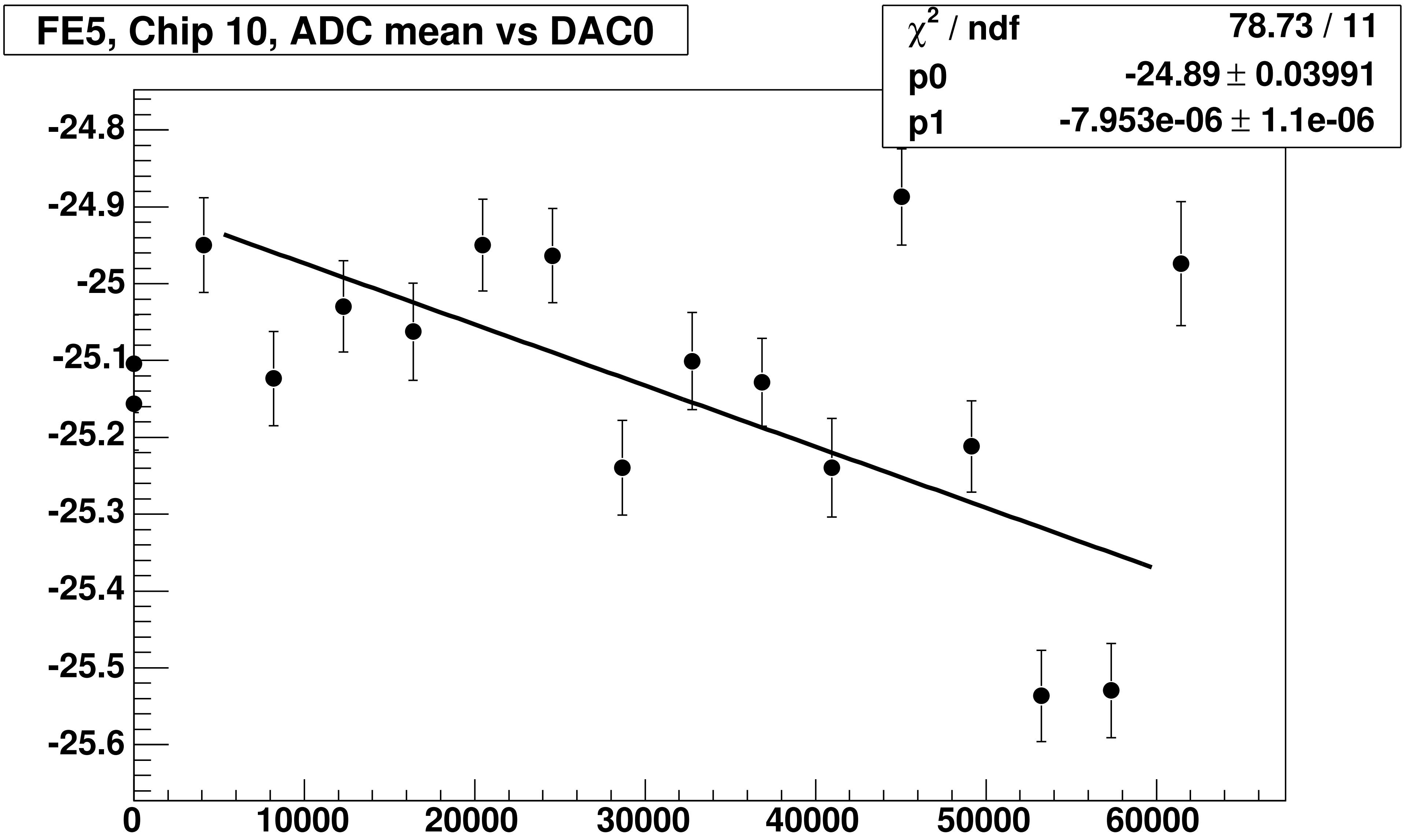

FE5, Chip 9, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE5, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1937 / 11
p0 -20.08 ± 0.04184
p1 0.4514 ± 1.318e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

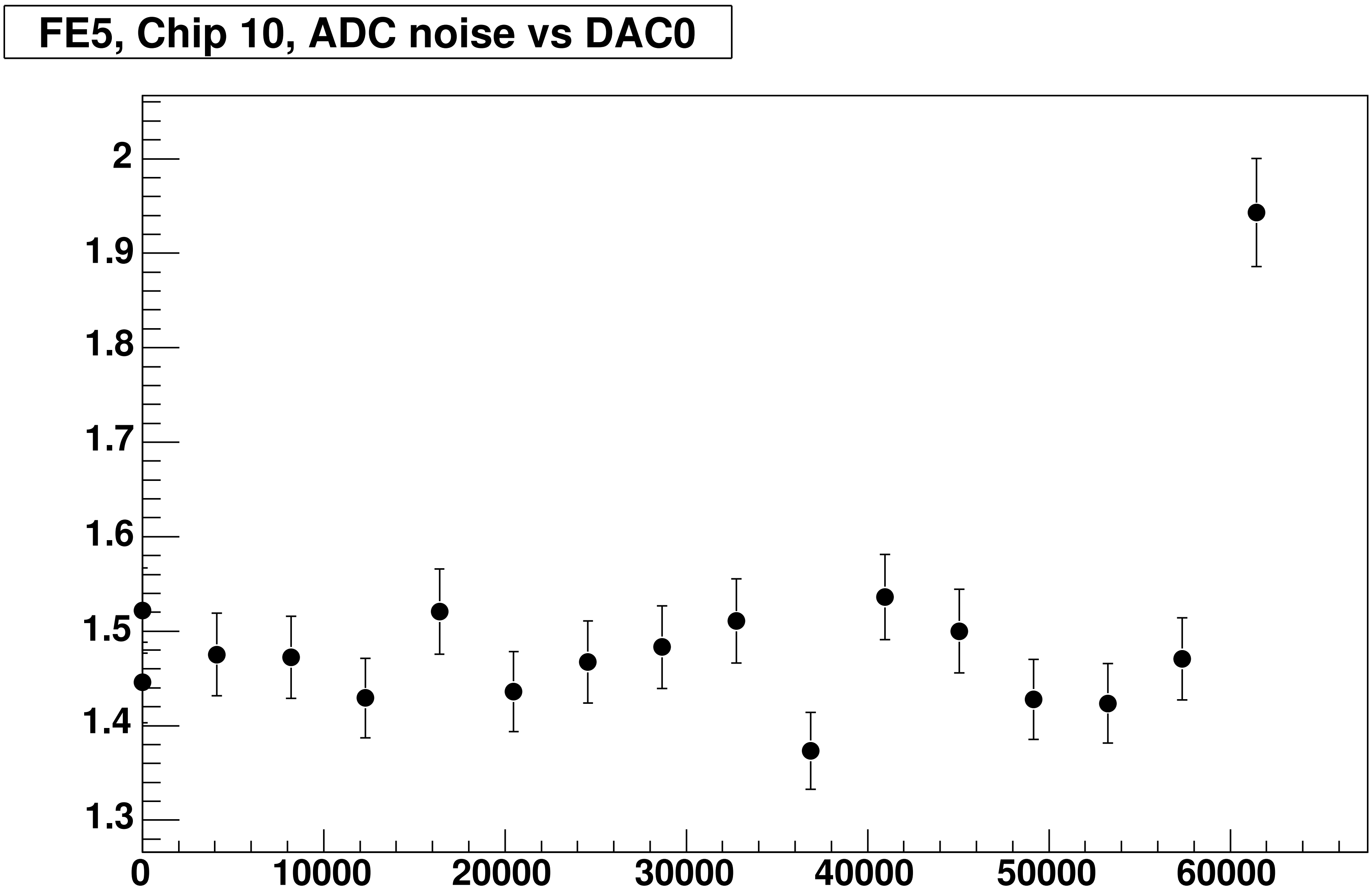

FE5, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

FE5, Chip 9, ADC residuals vs DAC1

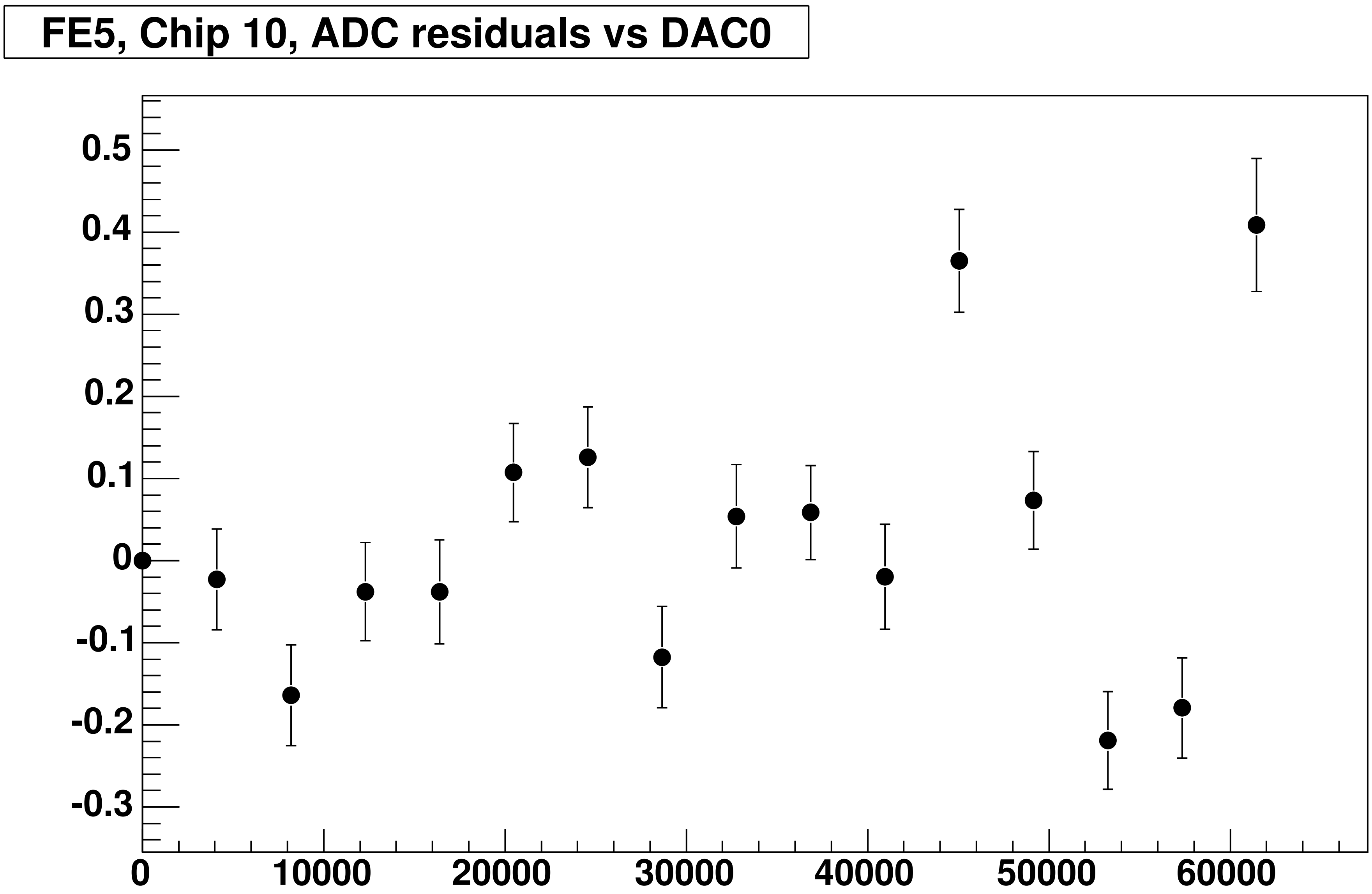




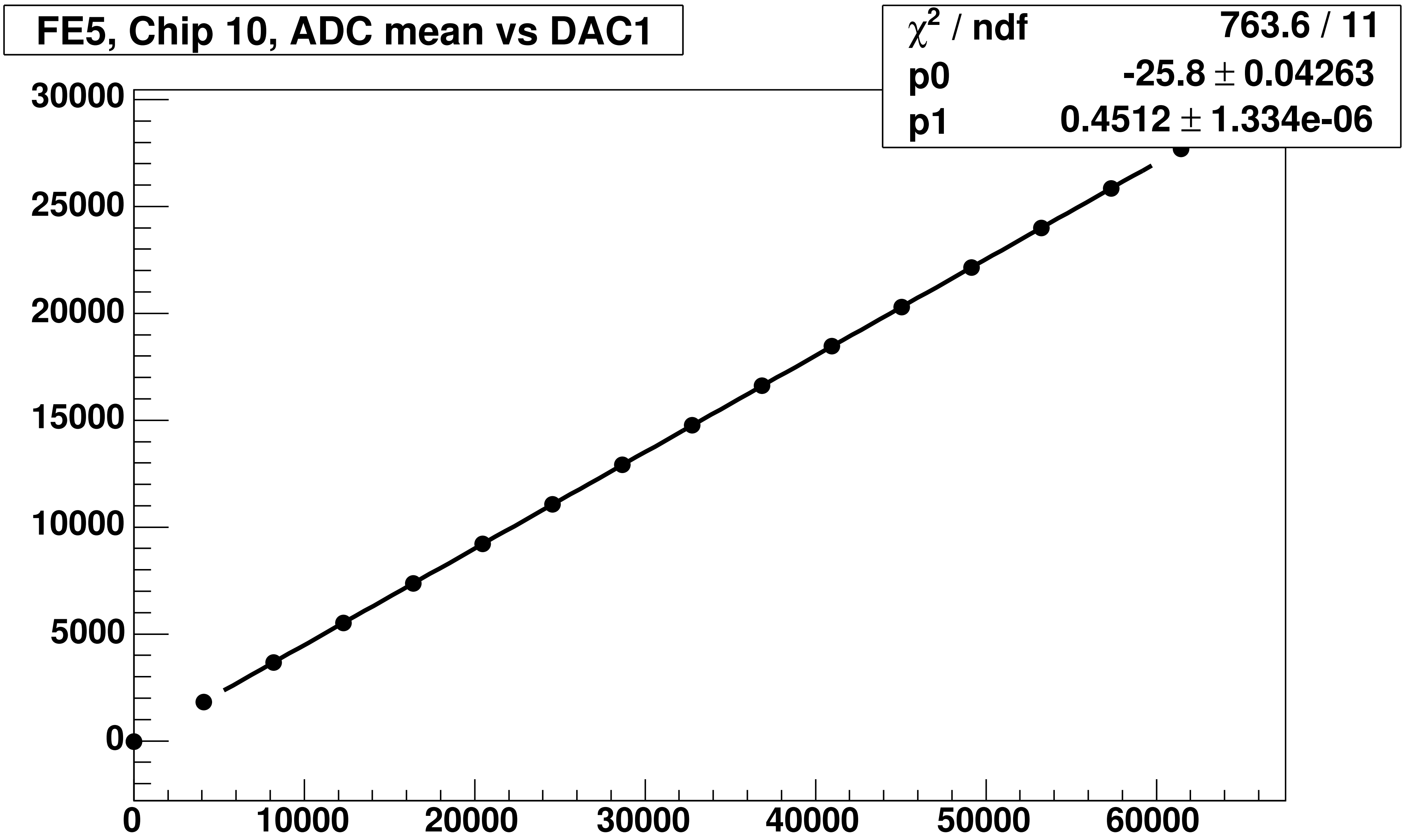
FE5, Chip 10, ADC mean vs DAC0
χ² / ndf 78.73 / 11
p0 -24.89 ± 0.03991
p1 -7.953e-06 ± 1.1e-06
-24.8
-24.9
-25
-25.1
-25.2
-25.3
-25.4
-25.5
-25.6
0
10000
20000
30000
40000
50000
60000

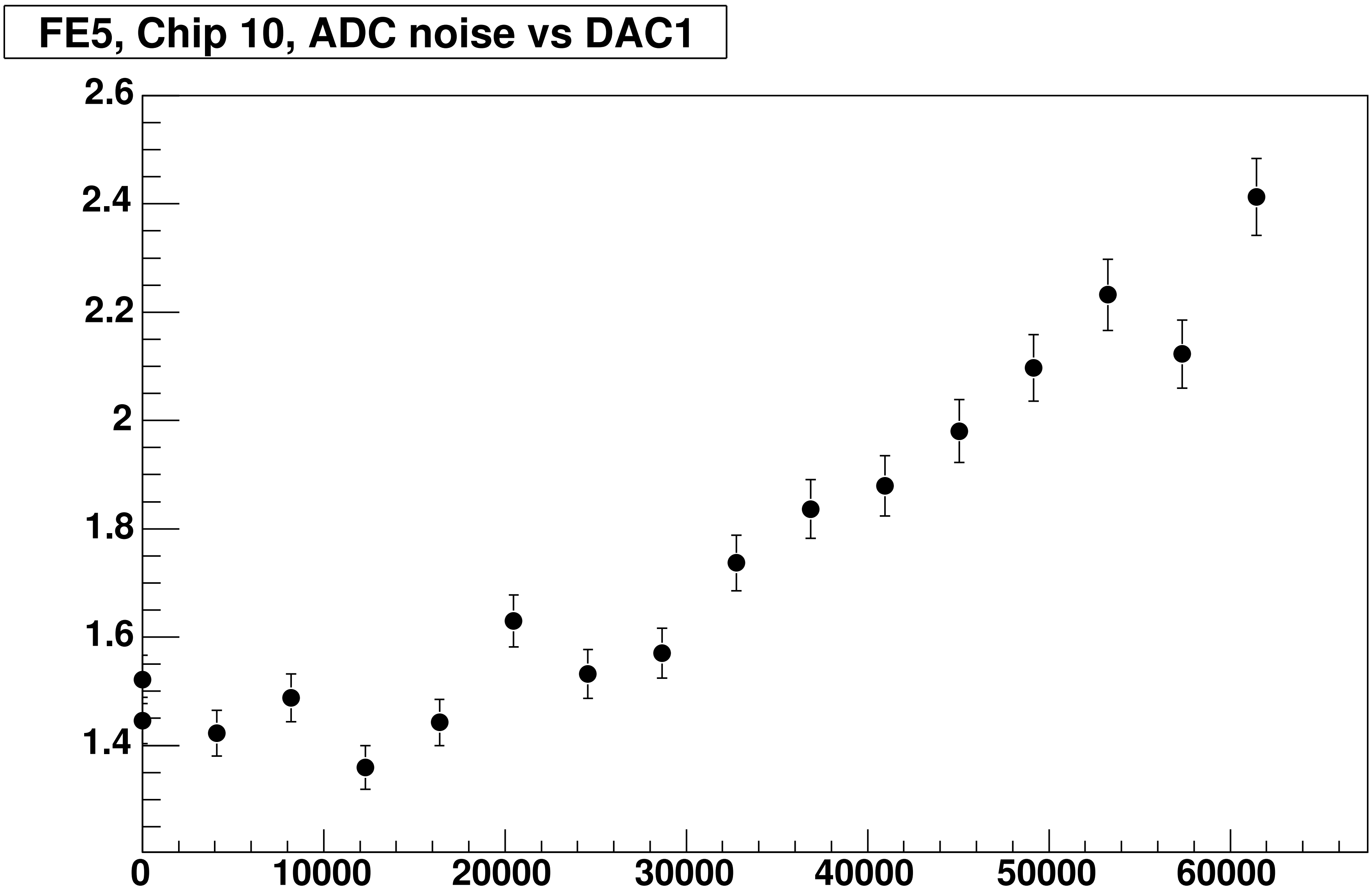


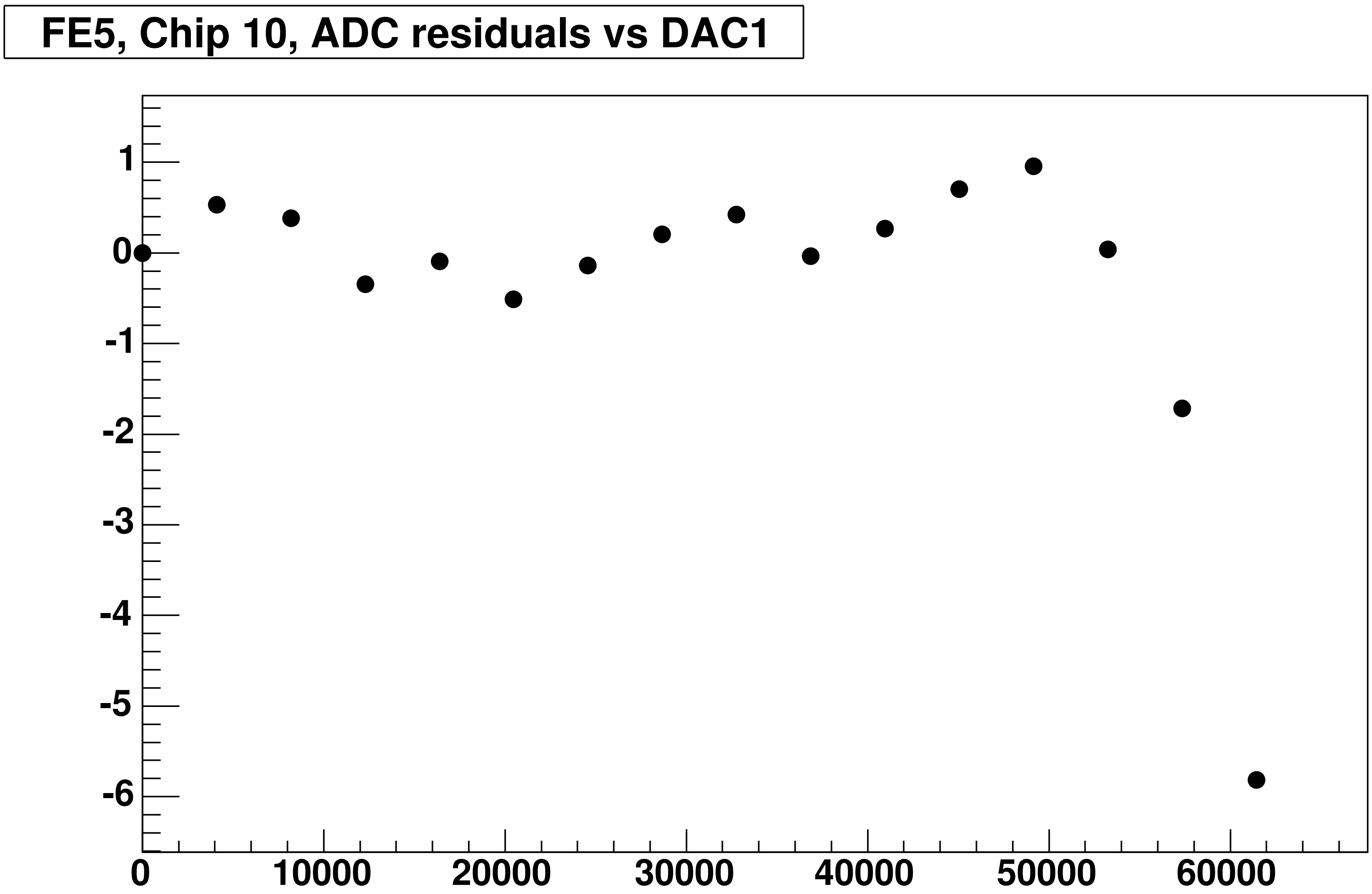
FE5, Chip 10, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

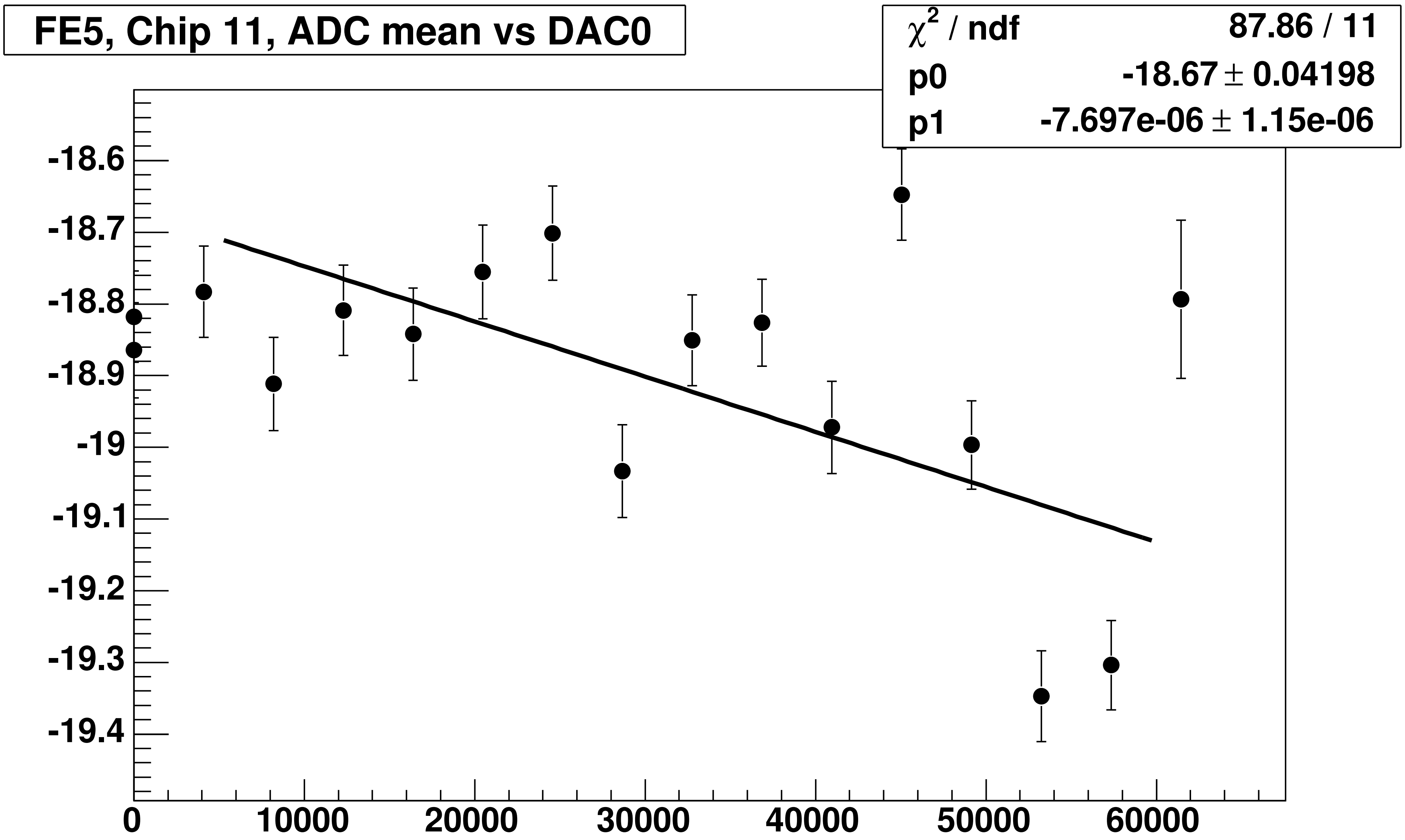


FE5, Chip 10, ADC residuals vs DAC0
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

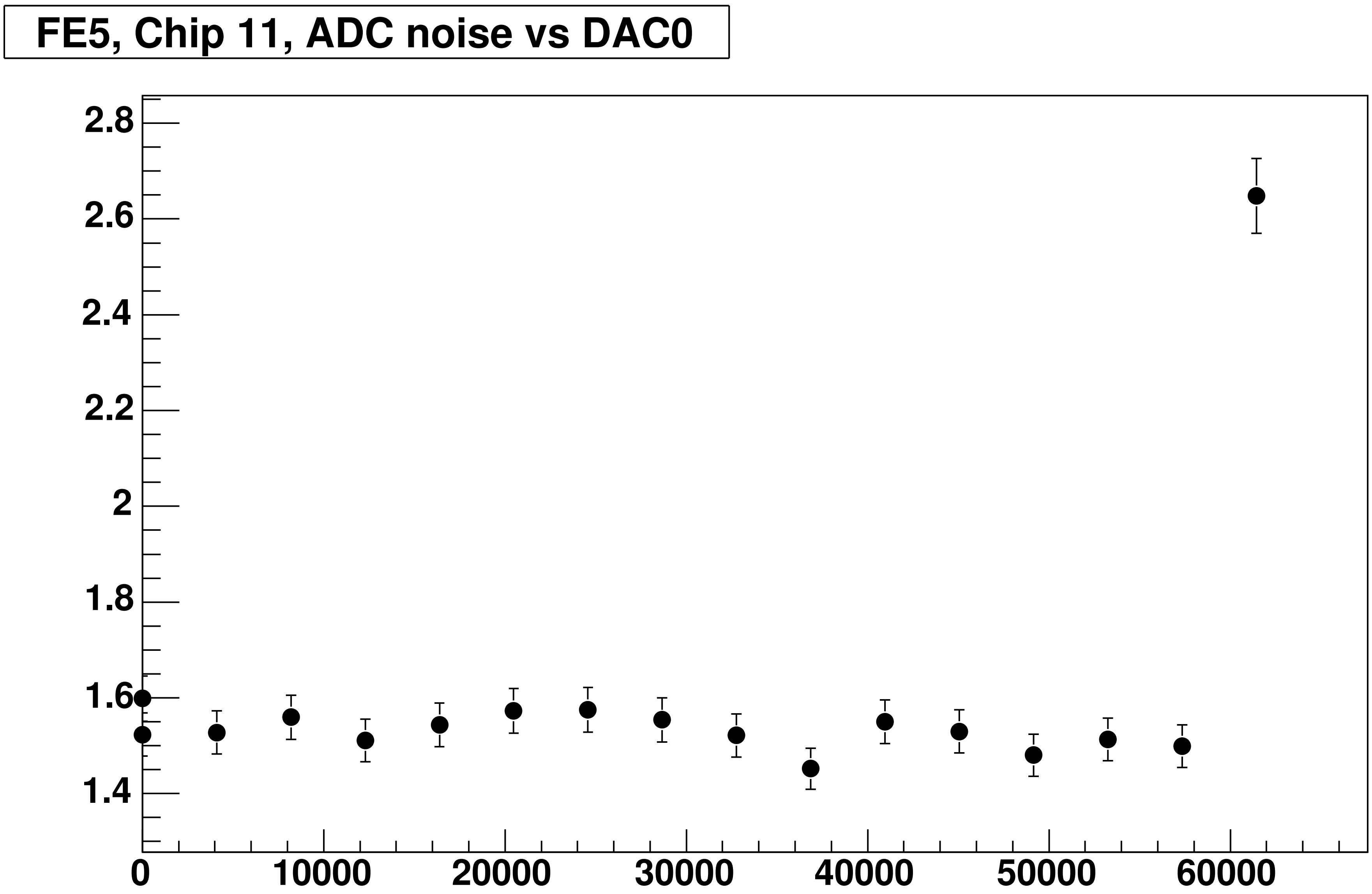

FE5, Chip 10, ADC mean vs DAC1
χ^2 / ndf 763.6 / 11
p0 -25.8 ± 0.04263
p1 0.4512 ± 1.334e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

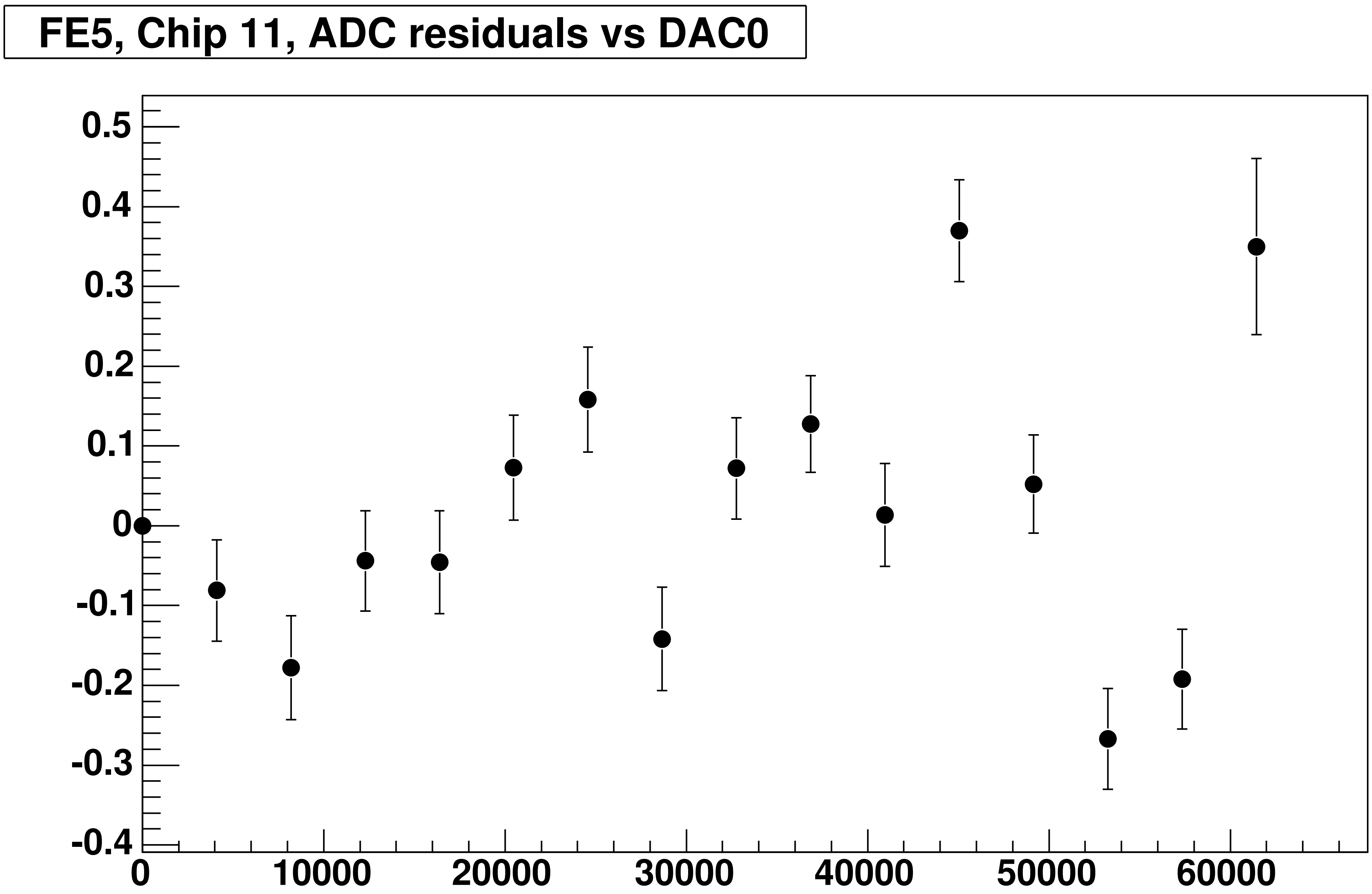

FE5, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

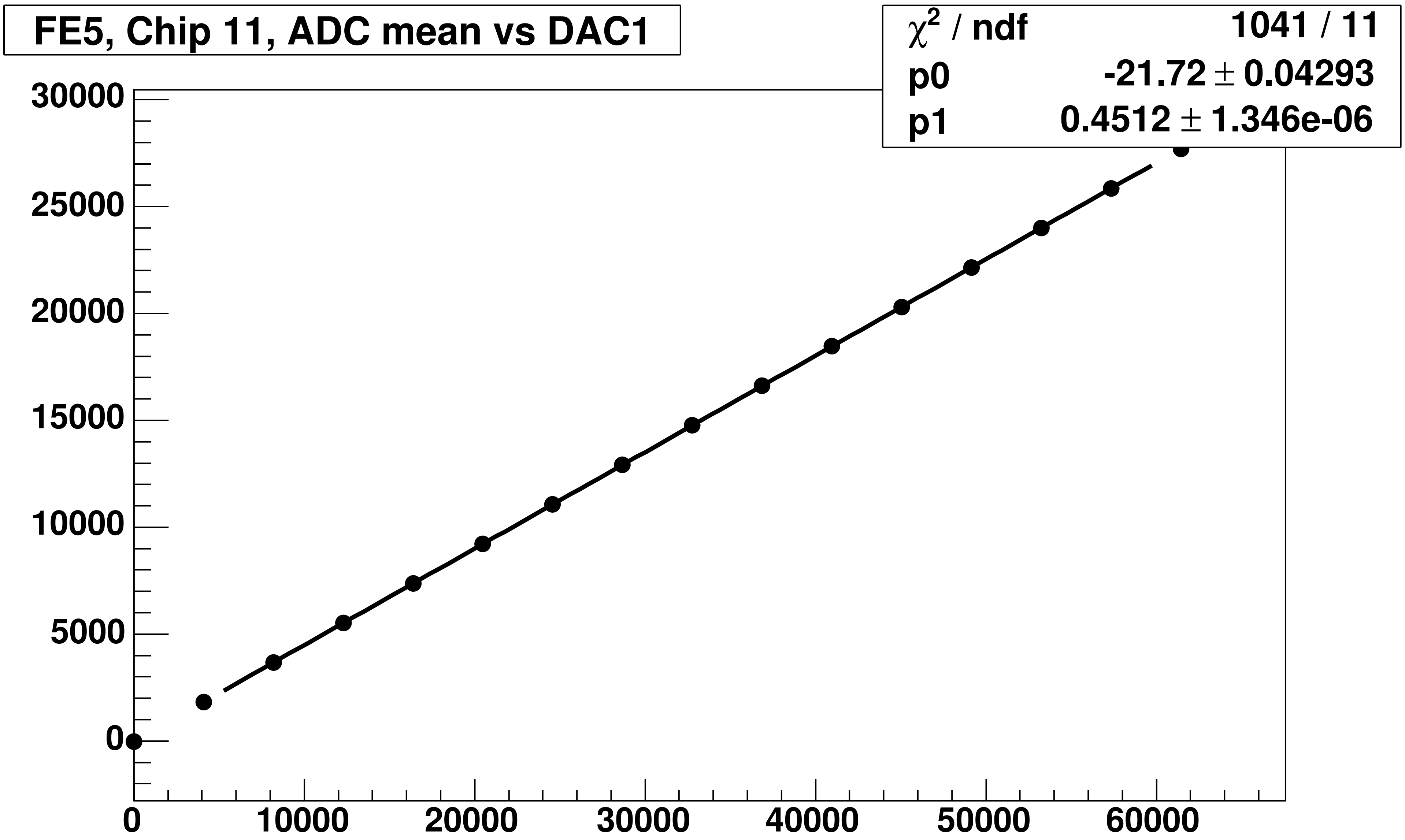

FE5, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



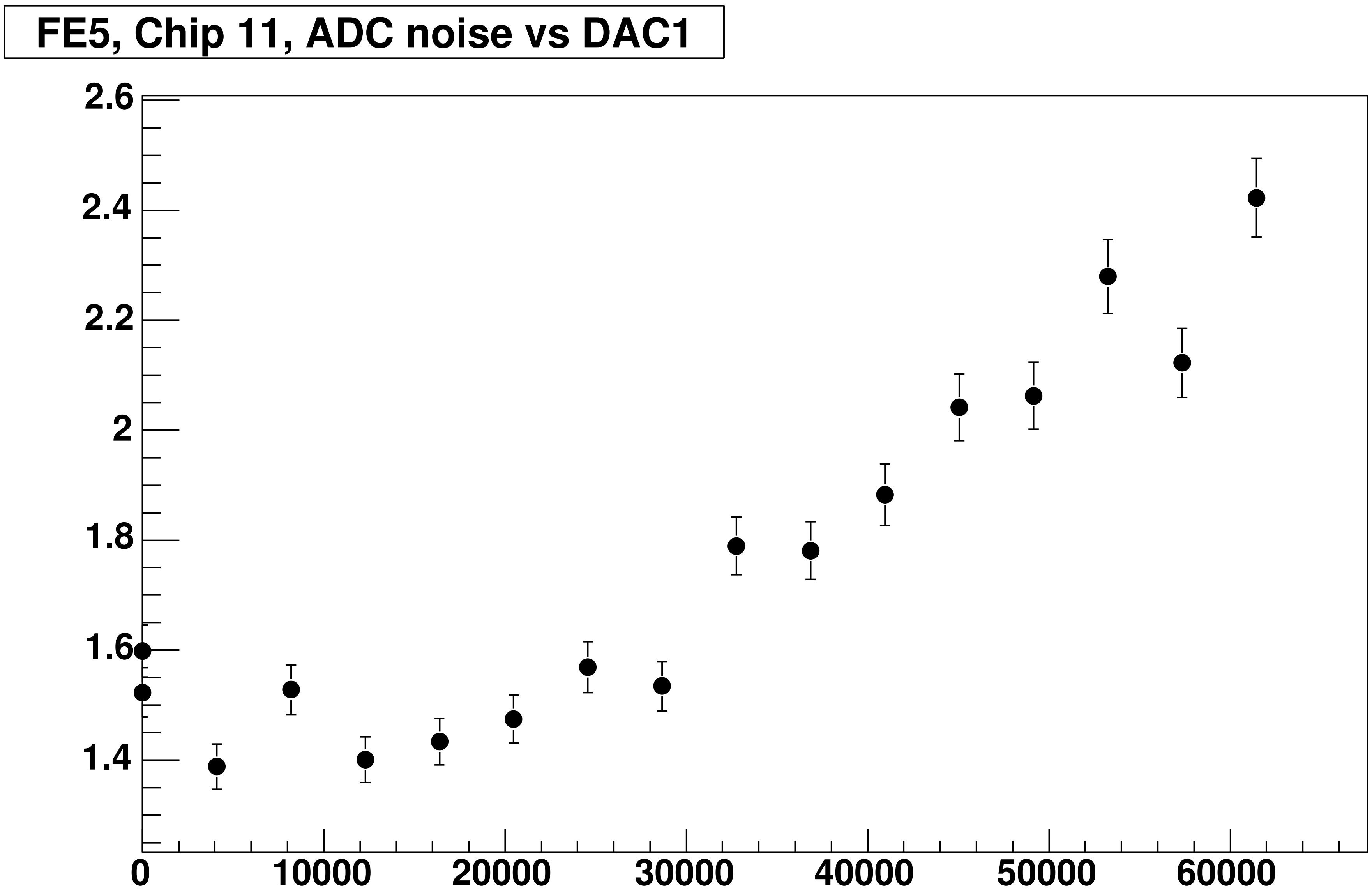
FE5, Chip 11, ADC mean vs DAC0
χ2 / ndf 87.86 / 11
p0 -18.67 ± 0.04198
p1 -7.697e-06 ± 1.15e-06
-18.6
-18.7
-18.8
-18.9
-19
-19.1
-19.2
-19.3
-19.4
0
10000
20000
30000
40000
50000
60000

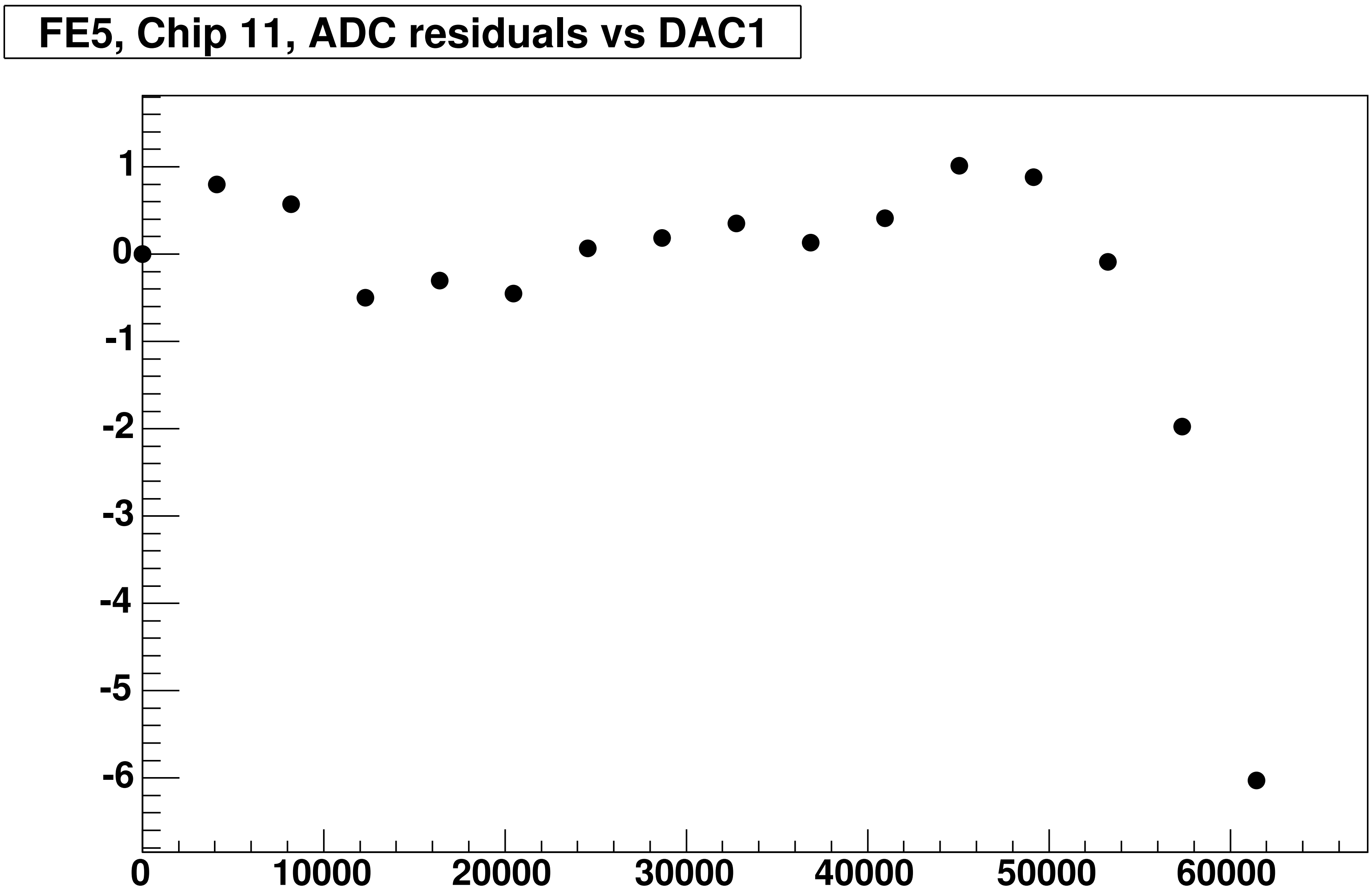

FE5, Chip 11, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

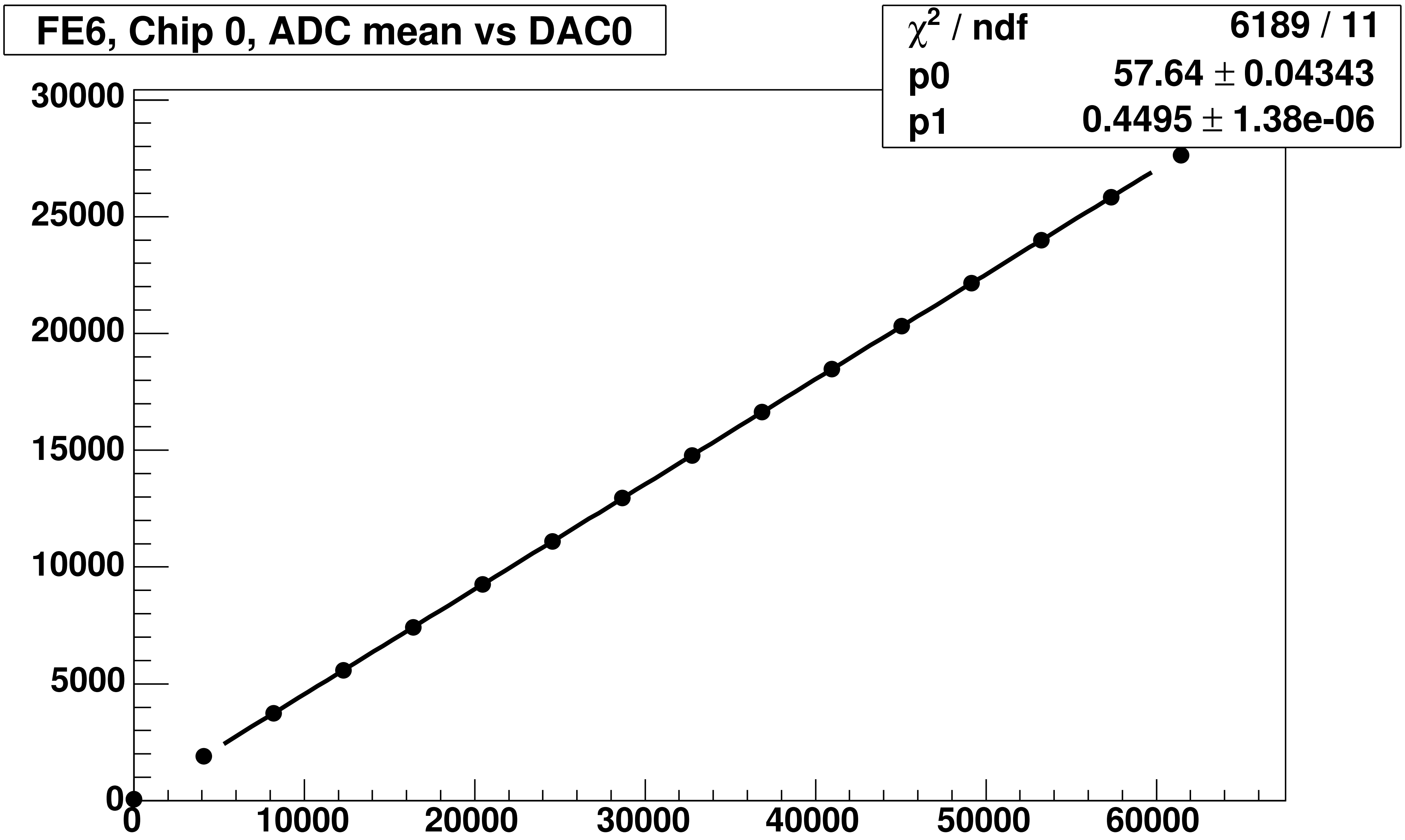

FE5, Chip 11, ADC residuals vs DAC0
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



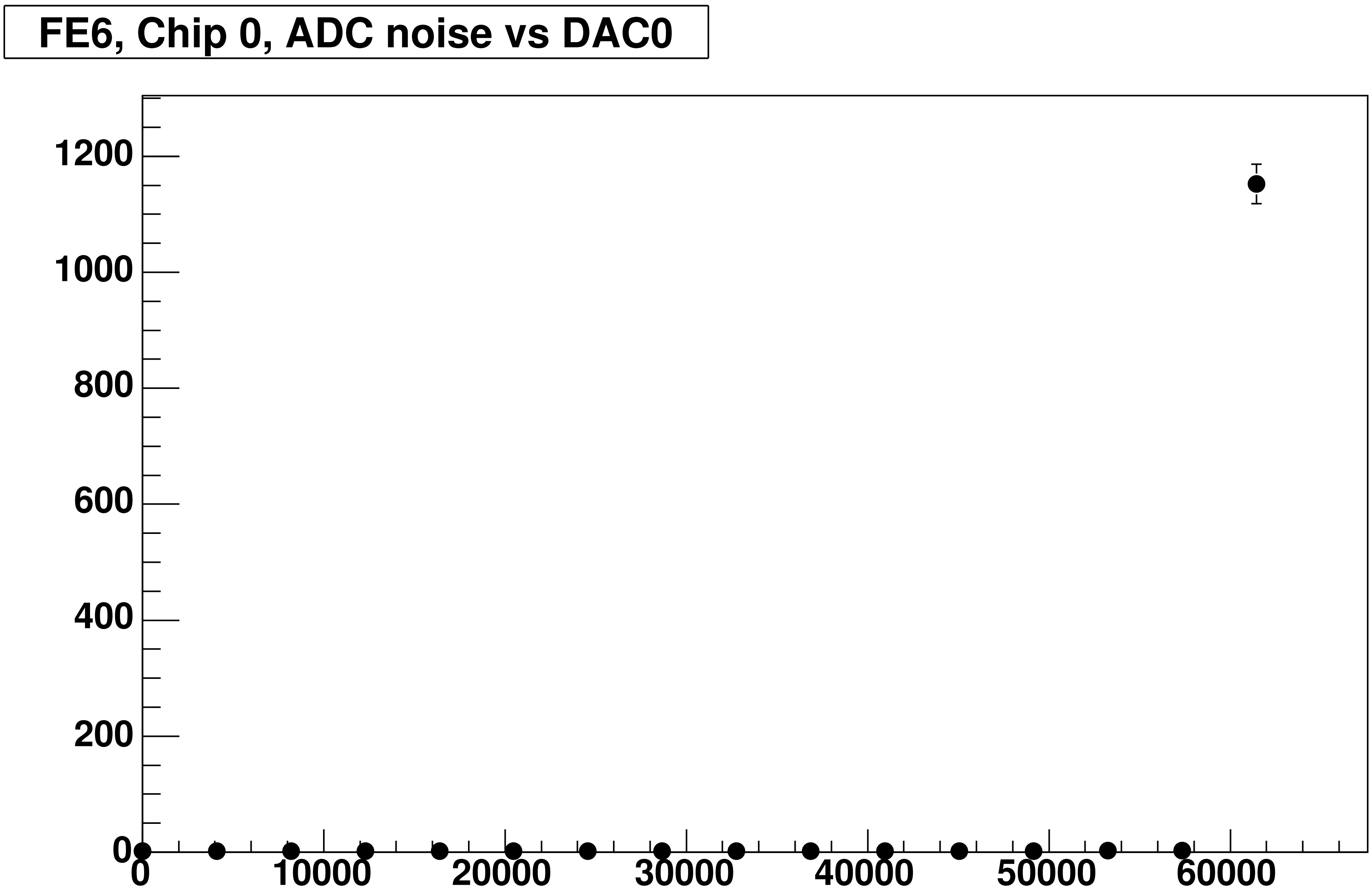
FE5, Chip 11, ADC mean vs DAC1
χ2 / ndf 1041 / 11
p0 -21.72 ± 0.04293
p1 0.4512 ± 1.346e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

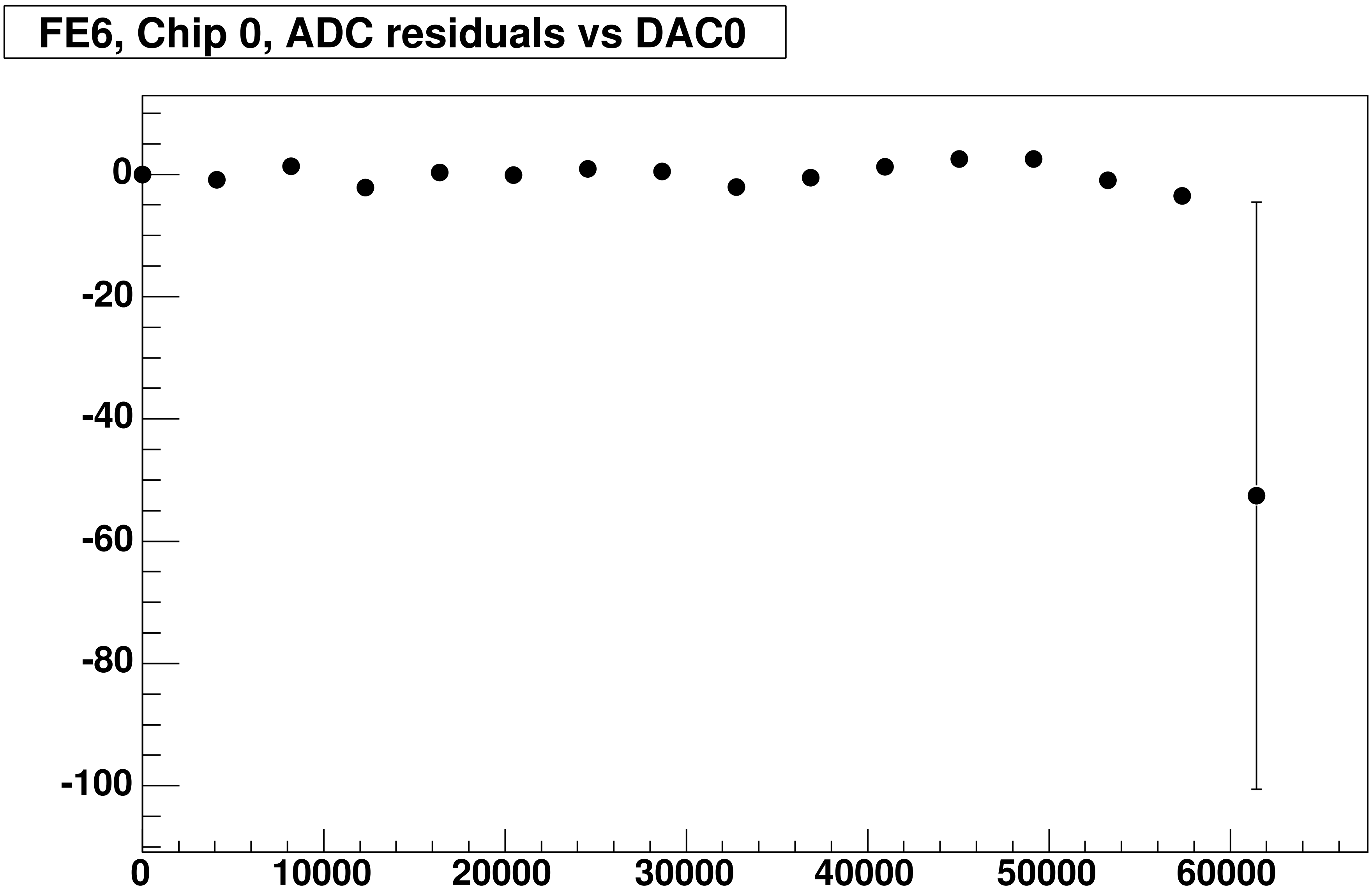

FE5, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

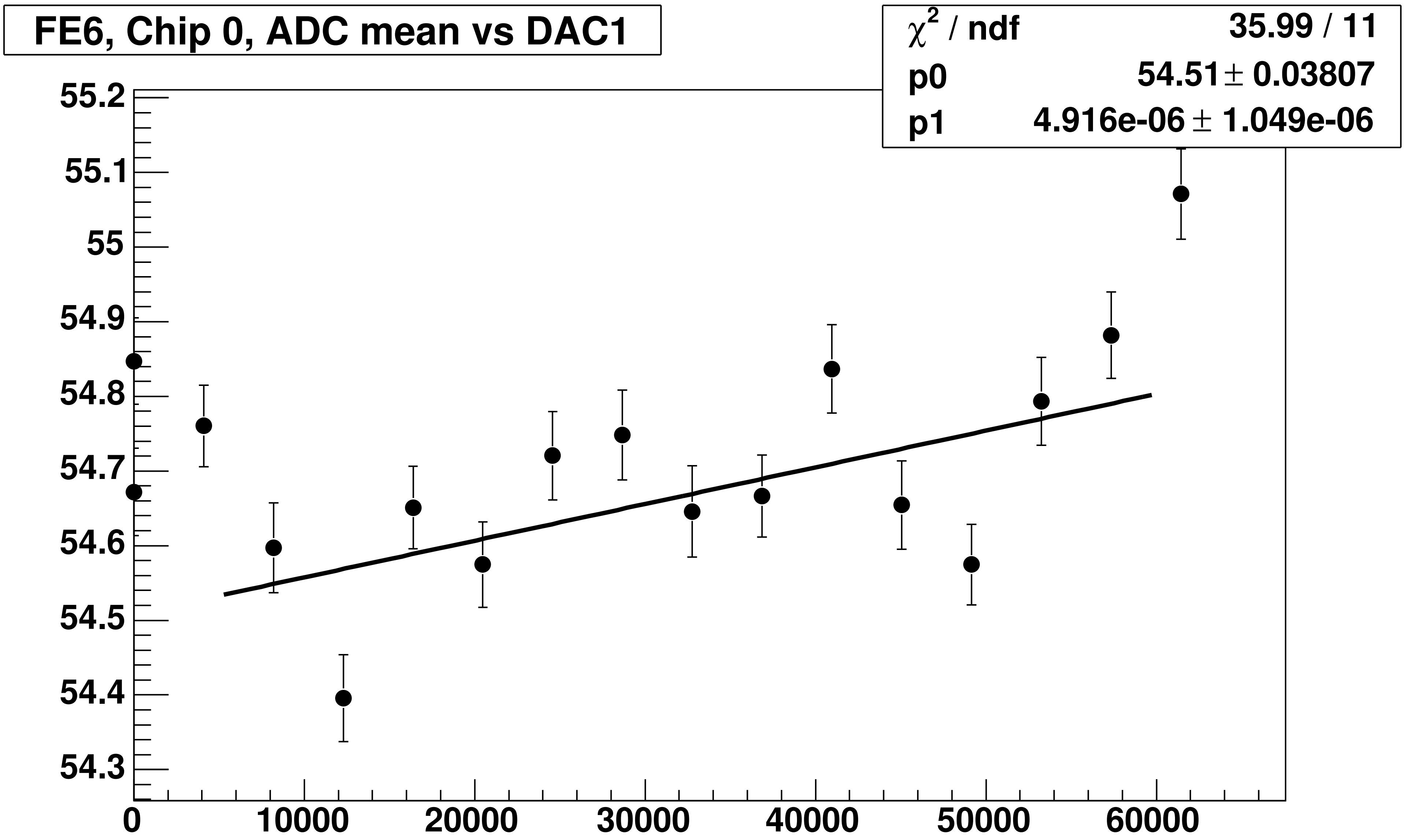


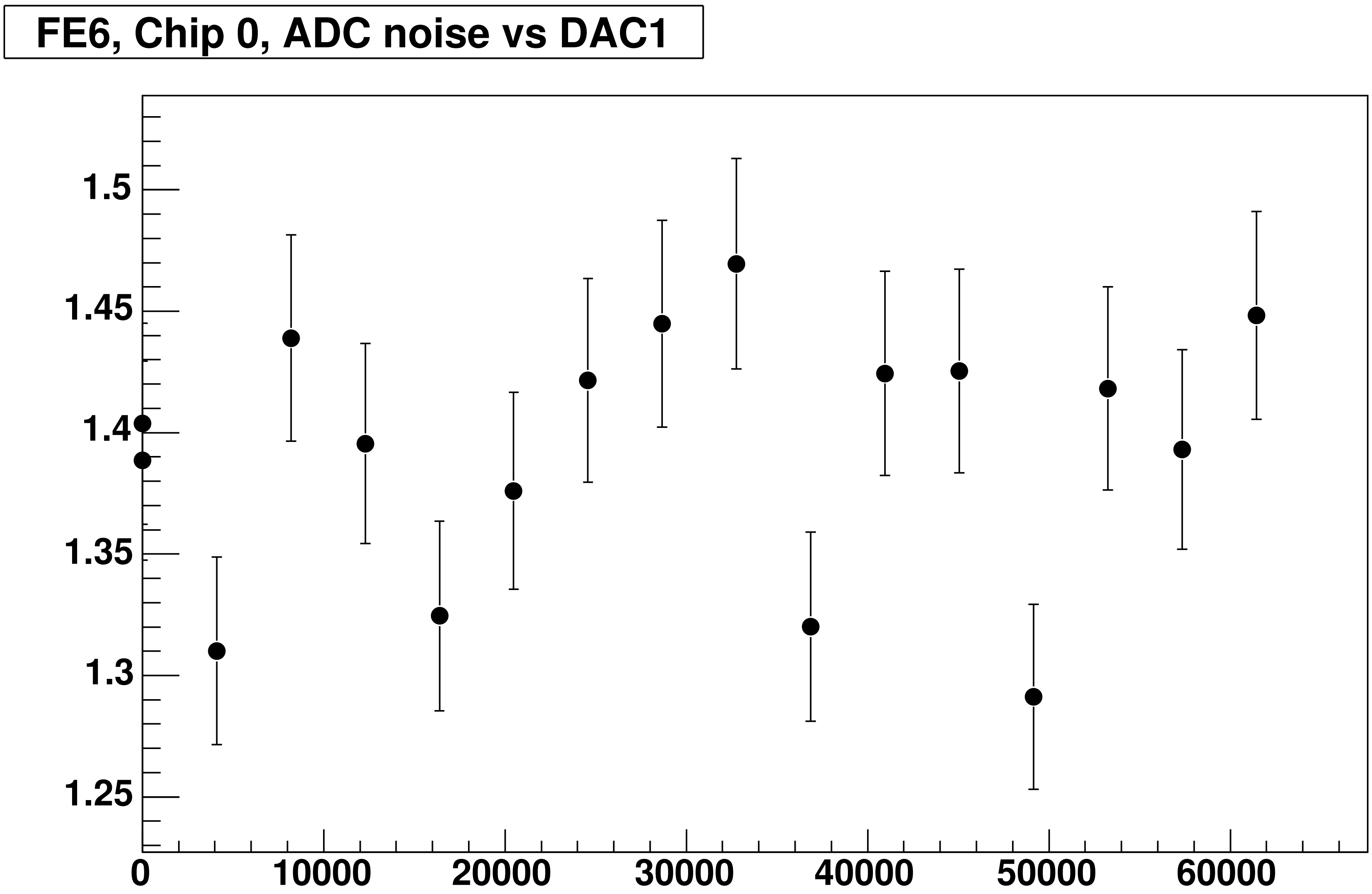
FE6, Chip 0, ADC mean vs DAC0
χ^2 / ndf 6189 / 11
p0 57.64 ± 0.04343
p1 0.4495 ± 1.38e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

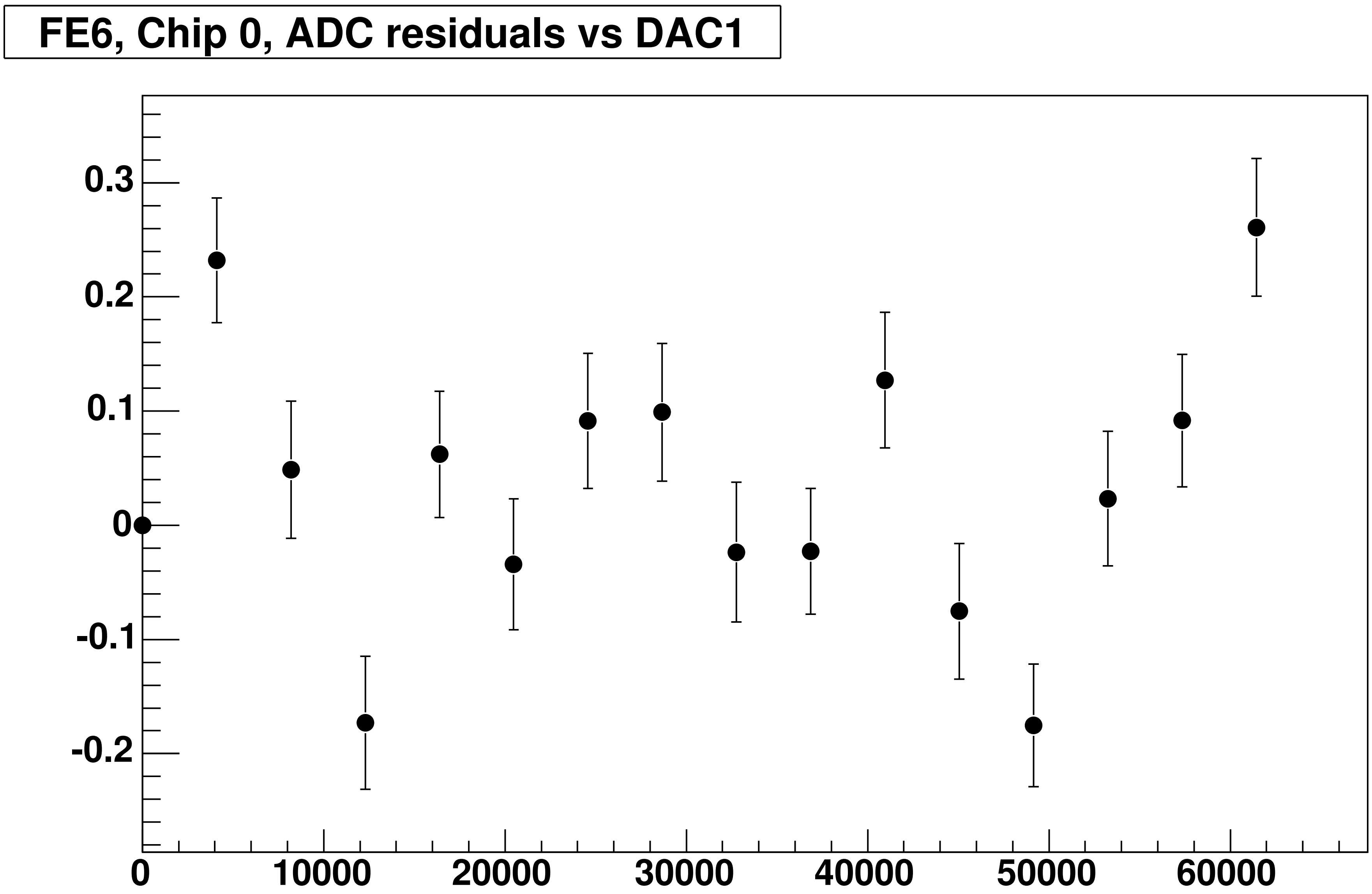

FE6, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



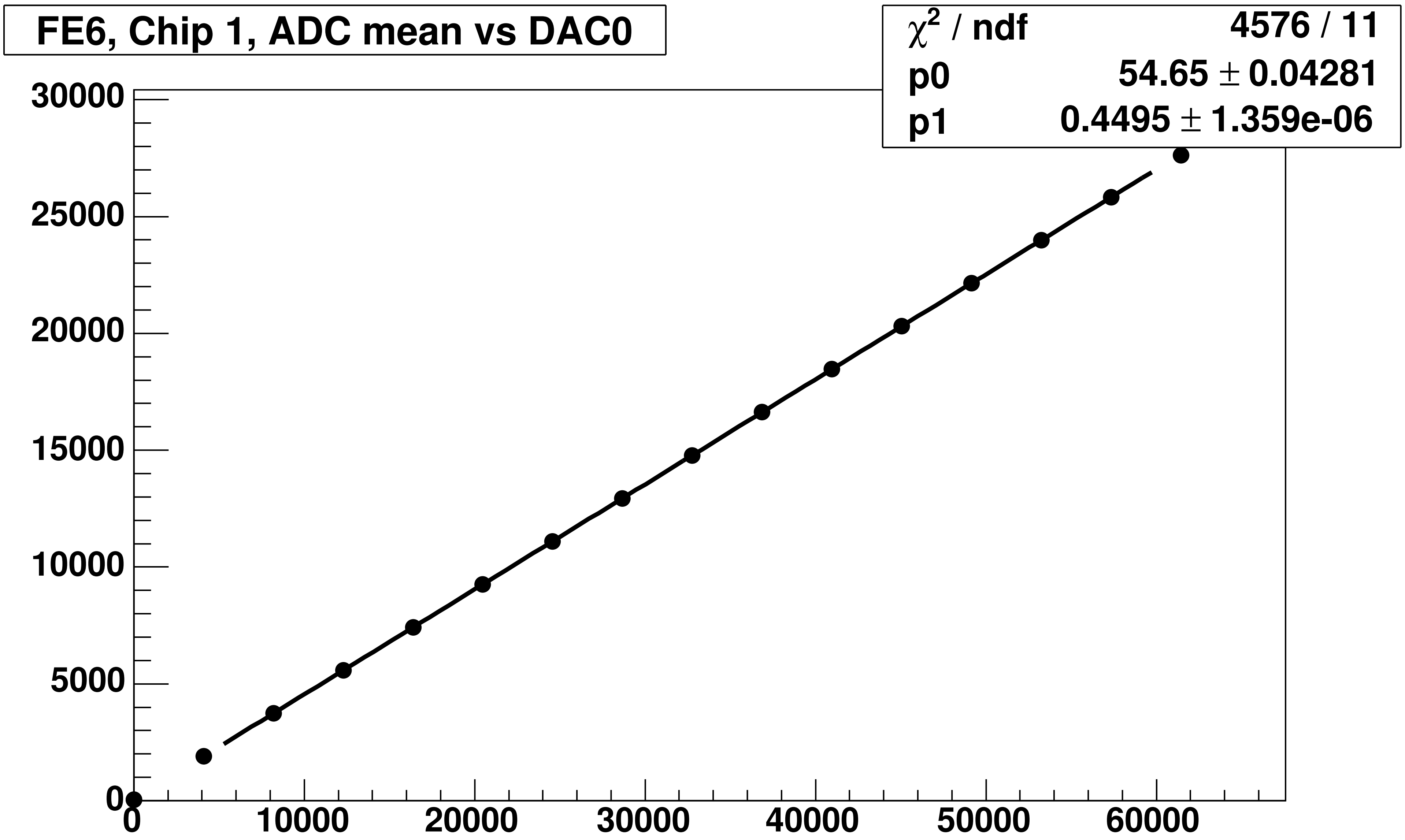
FE6, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

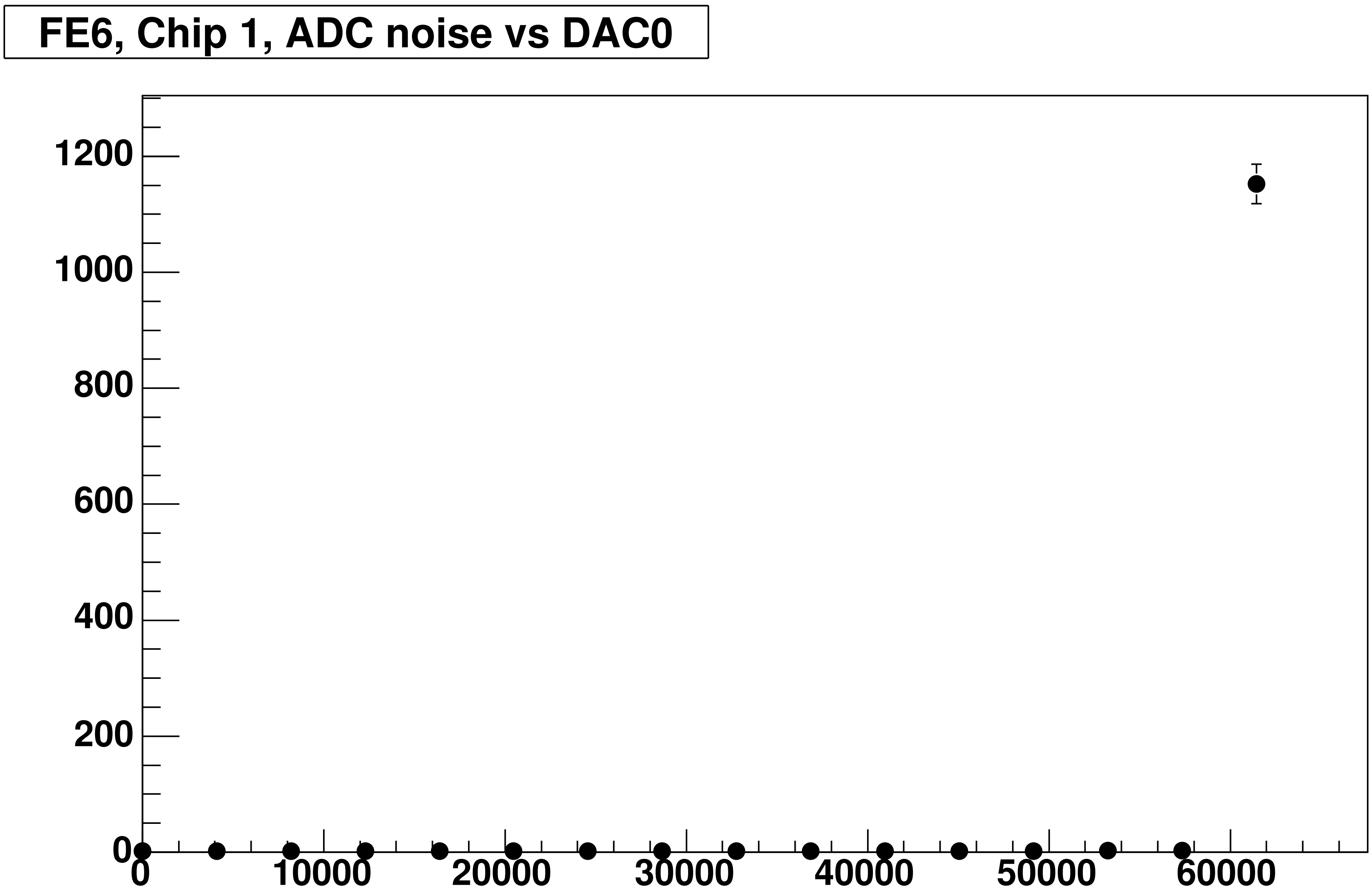

FE6, Chip 0, ADC mean vs DAC1
χ^2 / ndf 35.99 / 11
p0 54.51 ± 0.03807
p1 4.916e-06 ± 1.049e-06
55.2
55.1
55
54.9
54.8
54.7
54.6
54.5
54.4
54.3
0
10000
20000
30000
40000
50000
60000

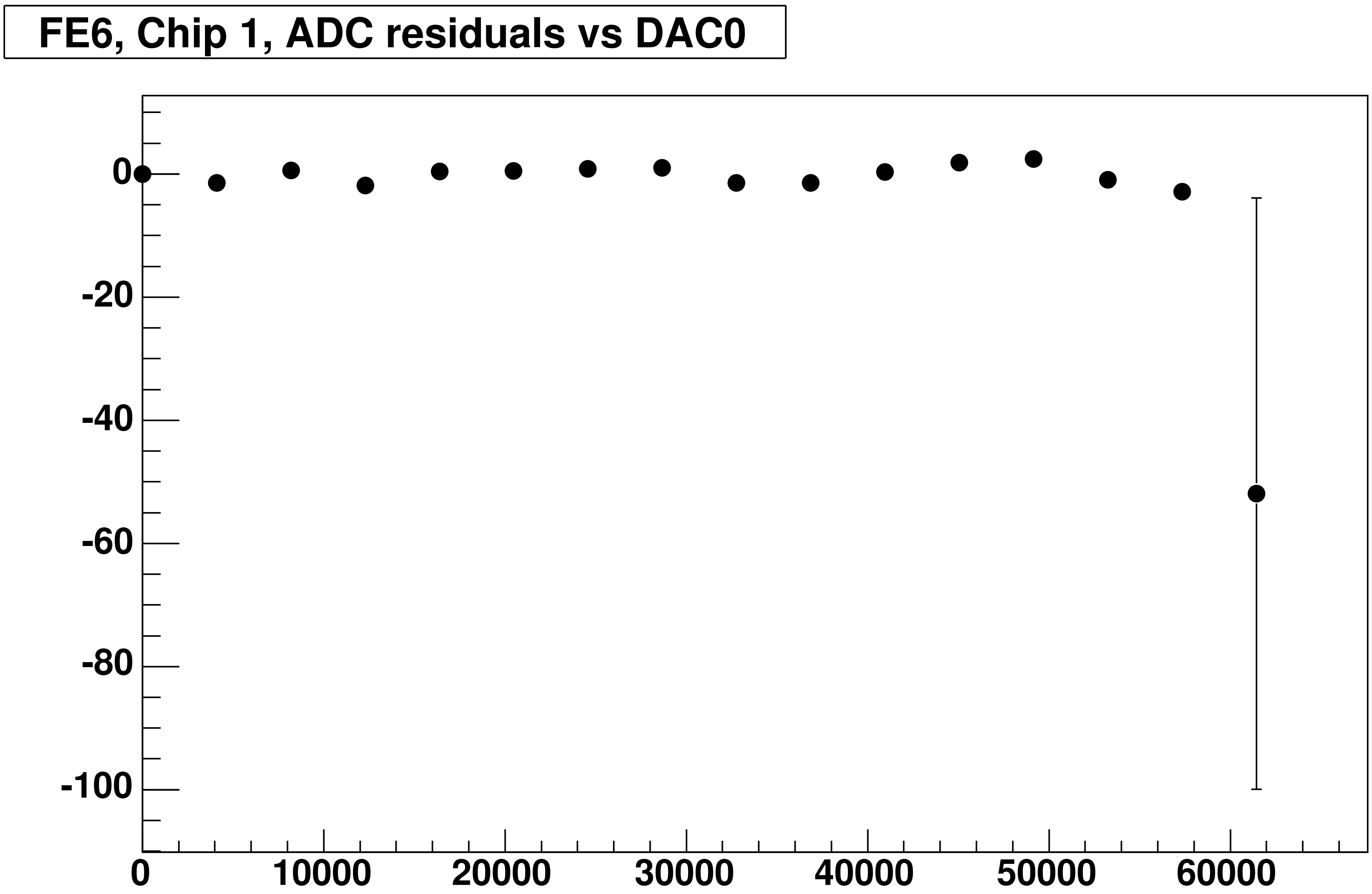

FE6, Chip 0, ADC noise vs DAC1
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000

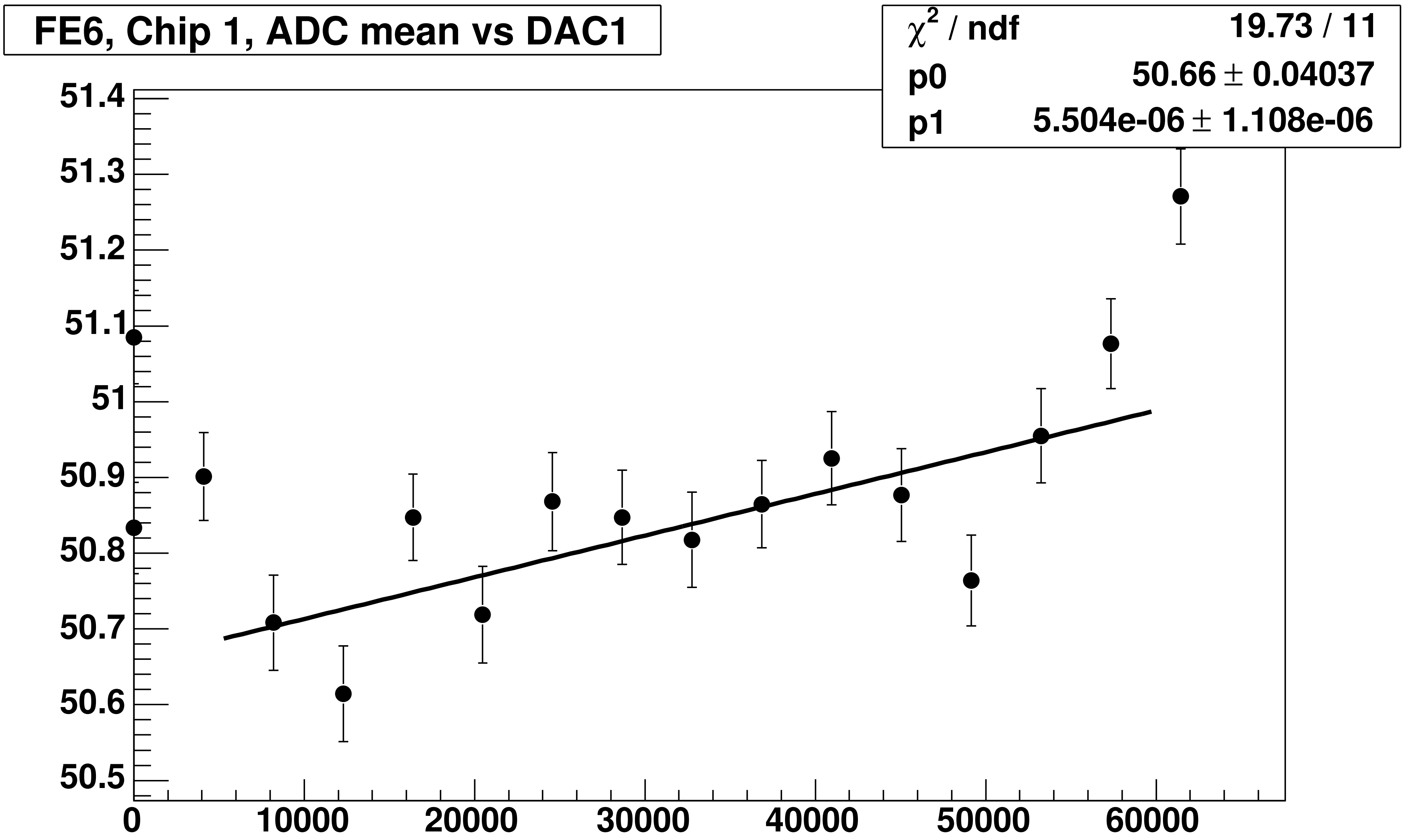


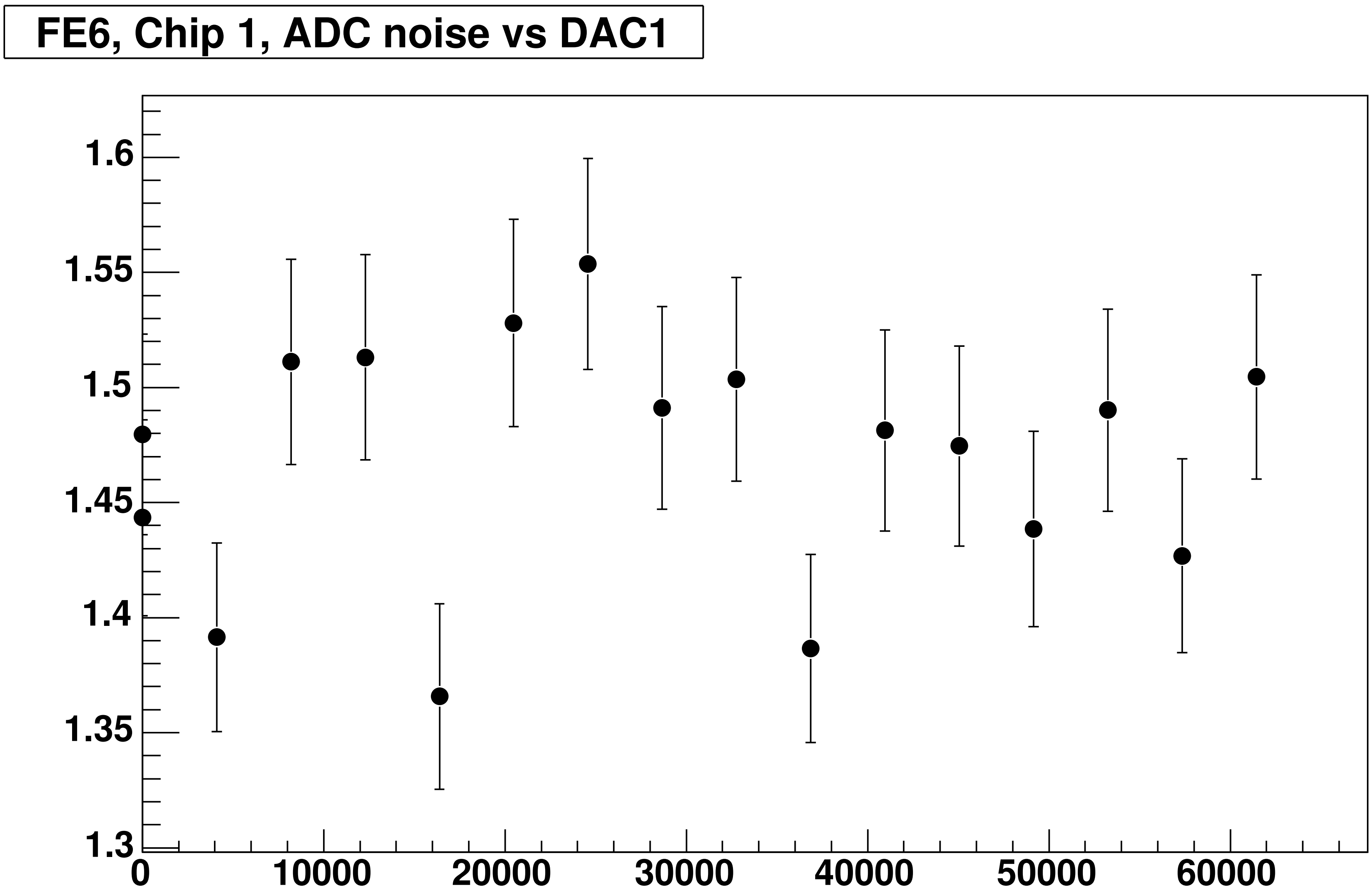
FE6, Chip 0, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE6, Chip 1, ADC mean vs DAC0
χ^2 / ndf 4576 / 11
p0 54.65 ± 0.04281
p1 0.4495 ± 1.359e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

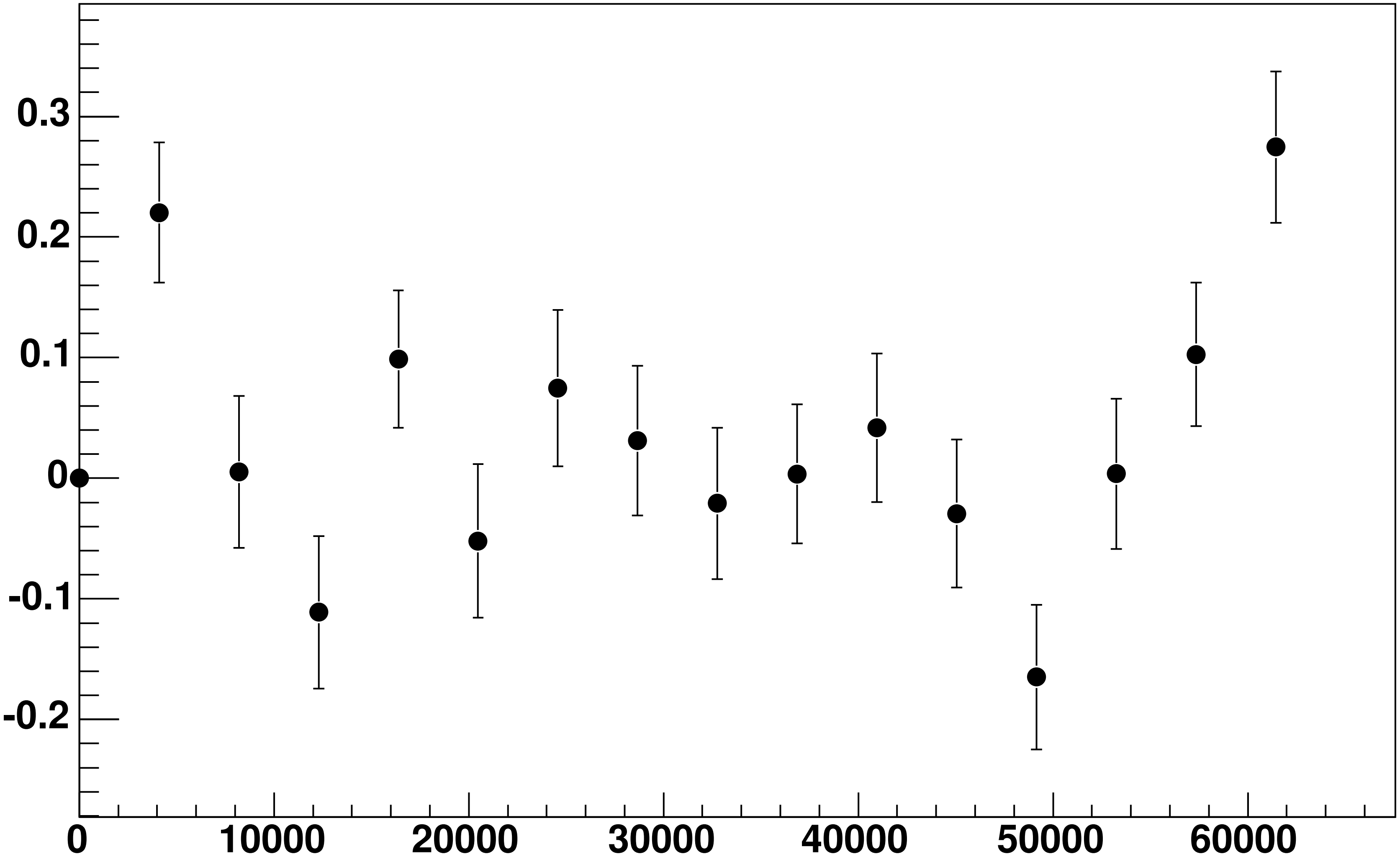

FE6, Chip 1, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

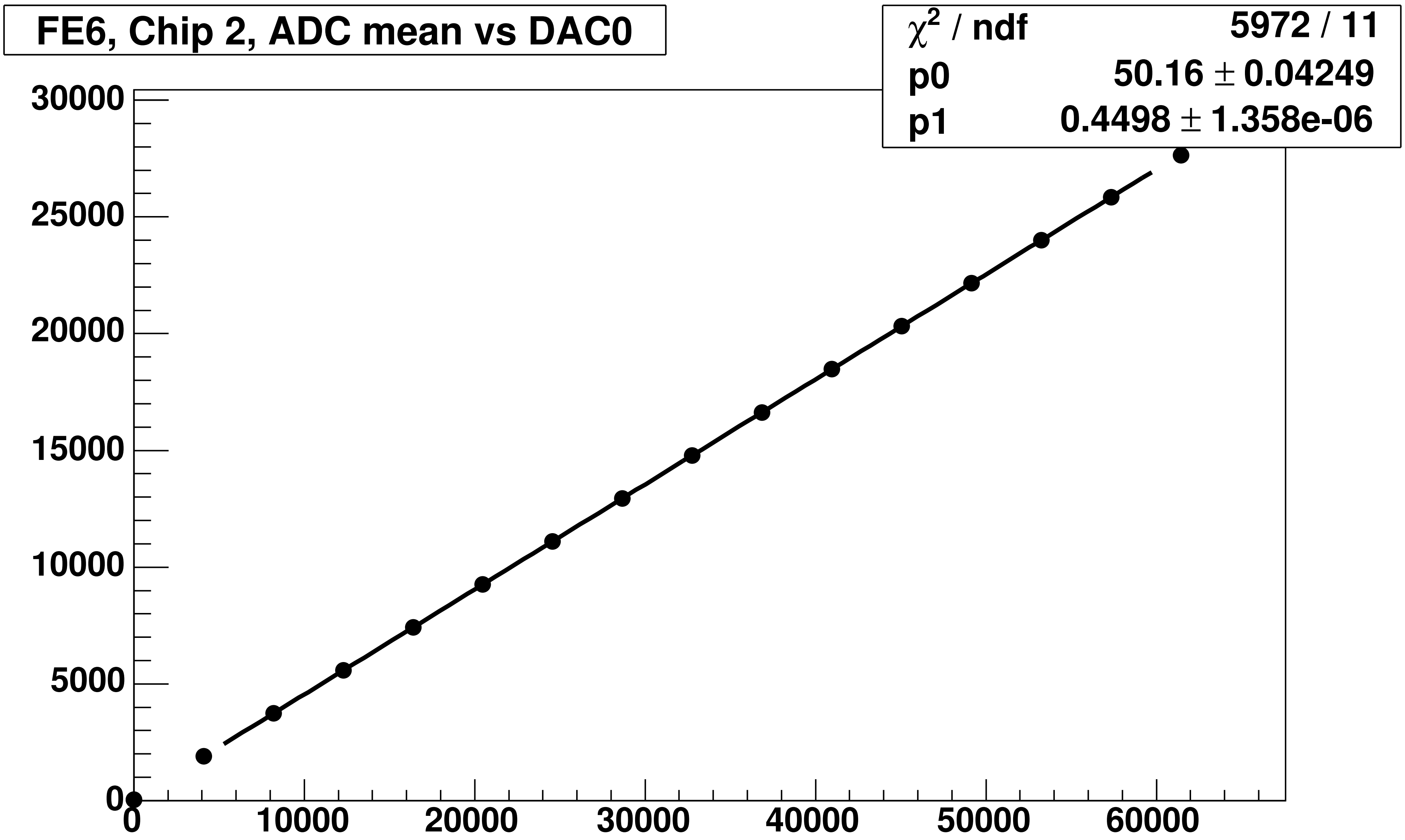

FE6, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

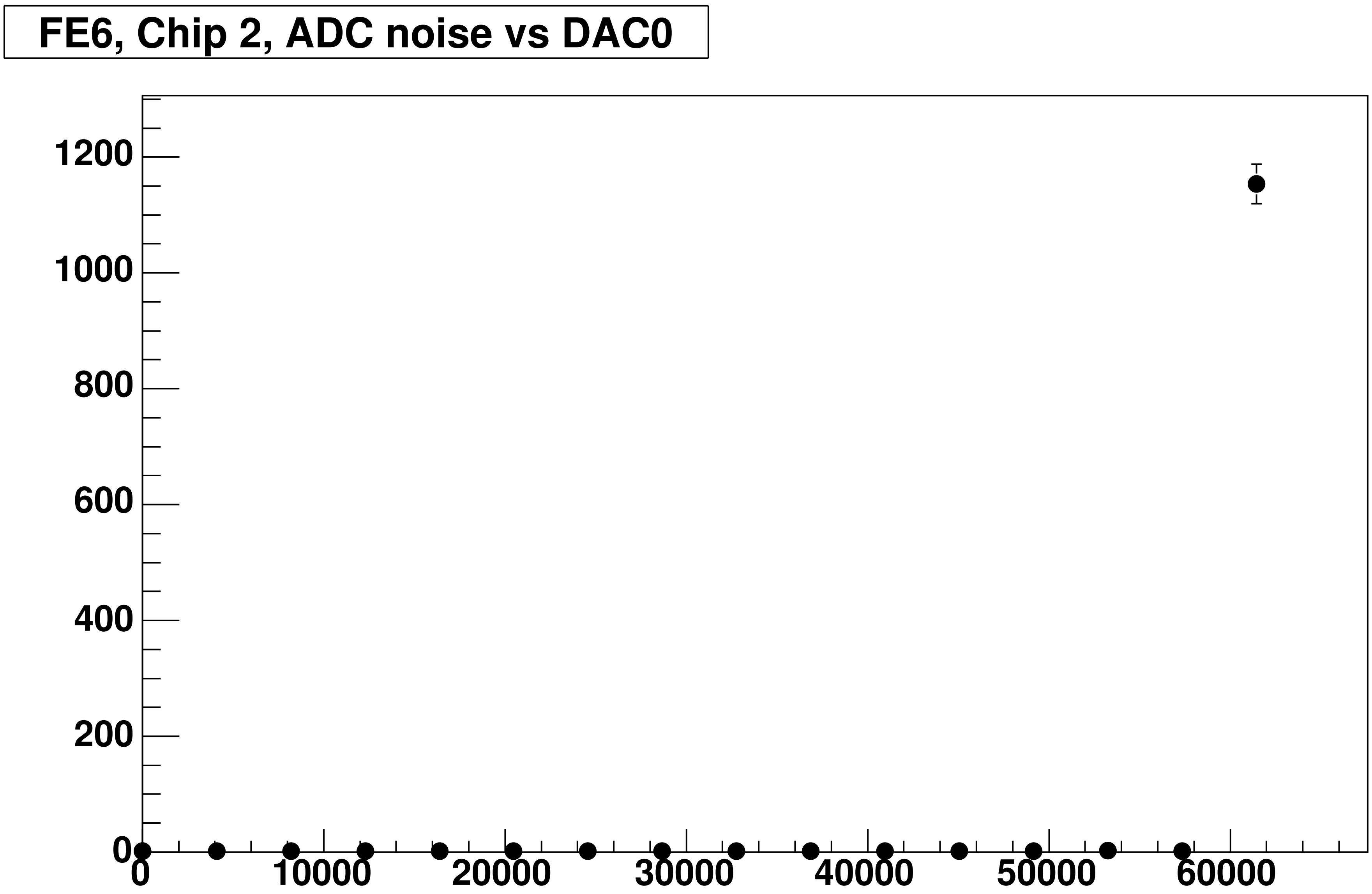

FE6, Chip 1, ADC mean vs DAC1
χ^2 / ndf 19.73 / 11
p0 50.66 ± 0.04037
p1 5.504e-06 ± 1.108e-06
51.4
51.3
51.2
51.1
51
50.9
50.8
50.7
50.6
50.5
0
10000
20000
30000
40000
50000
60000

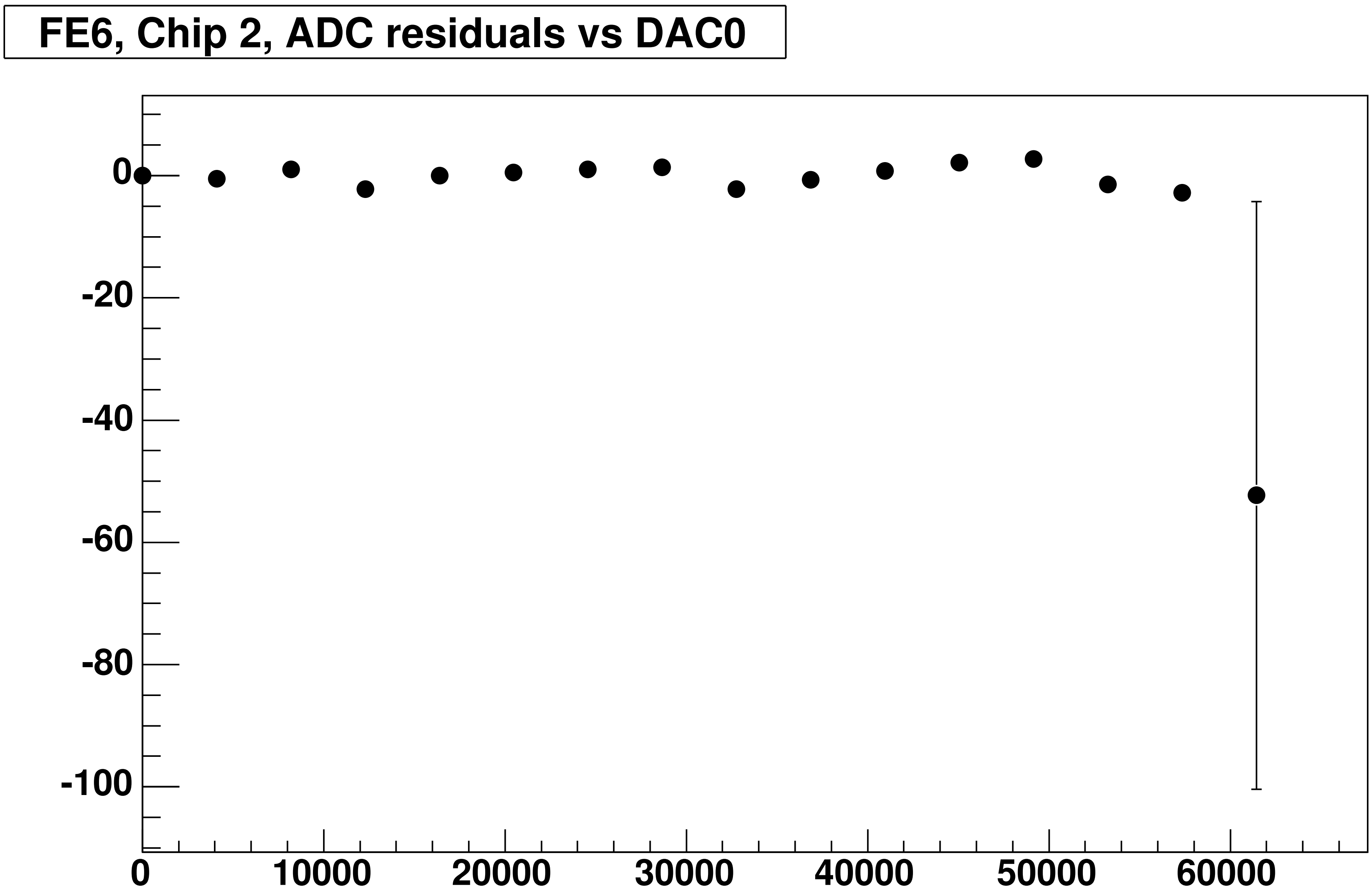

FE6, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

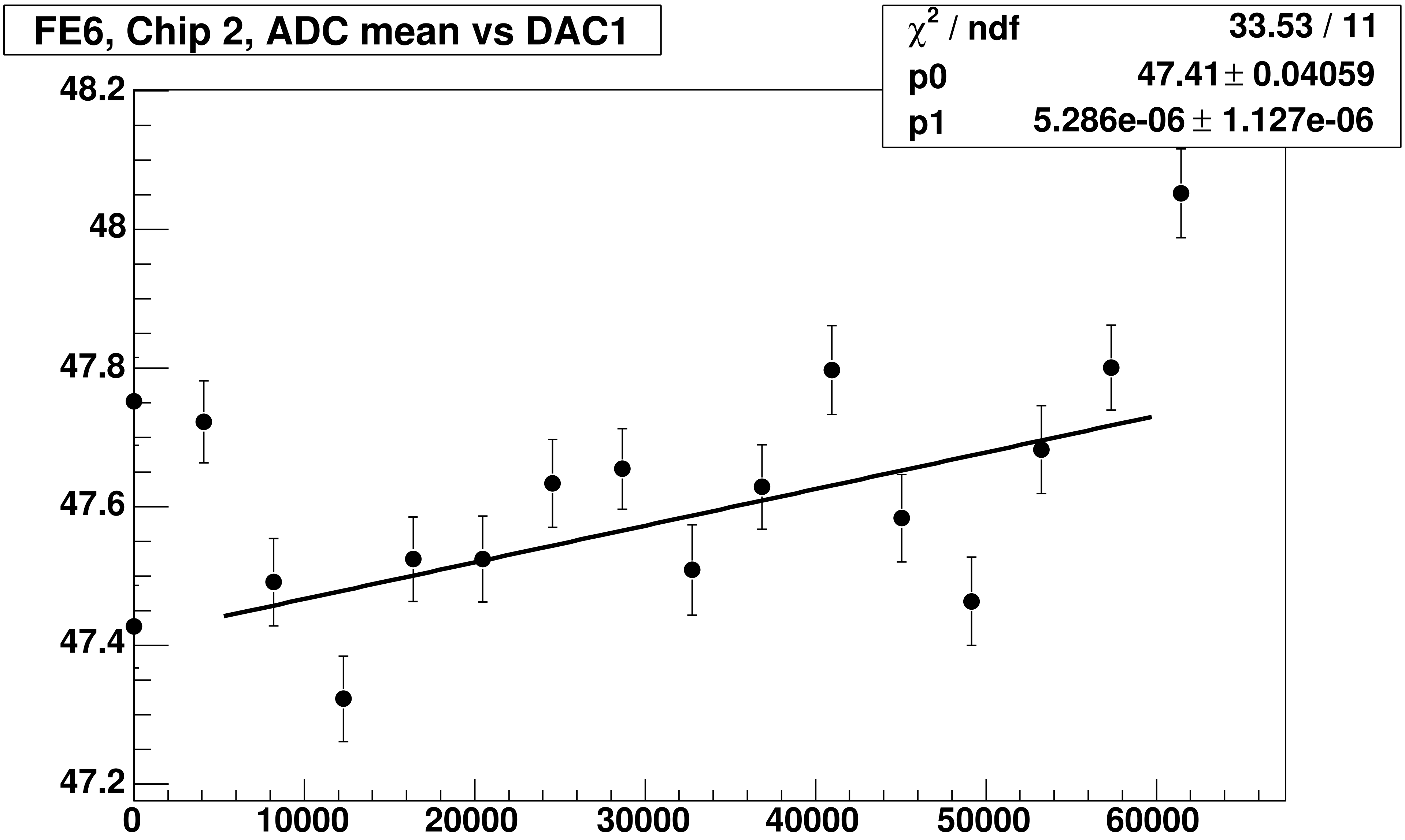
FE6, Chip 1, ADC residuals vs DAC1

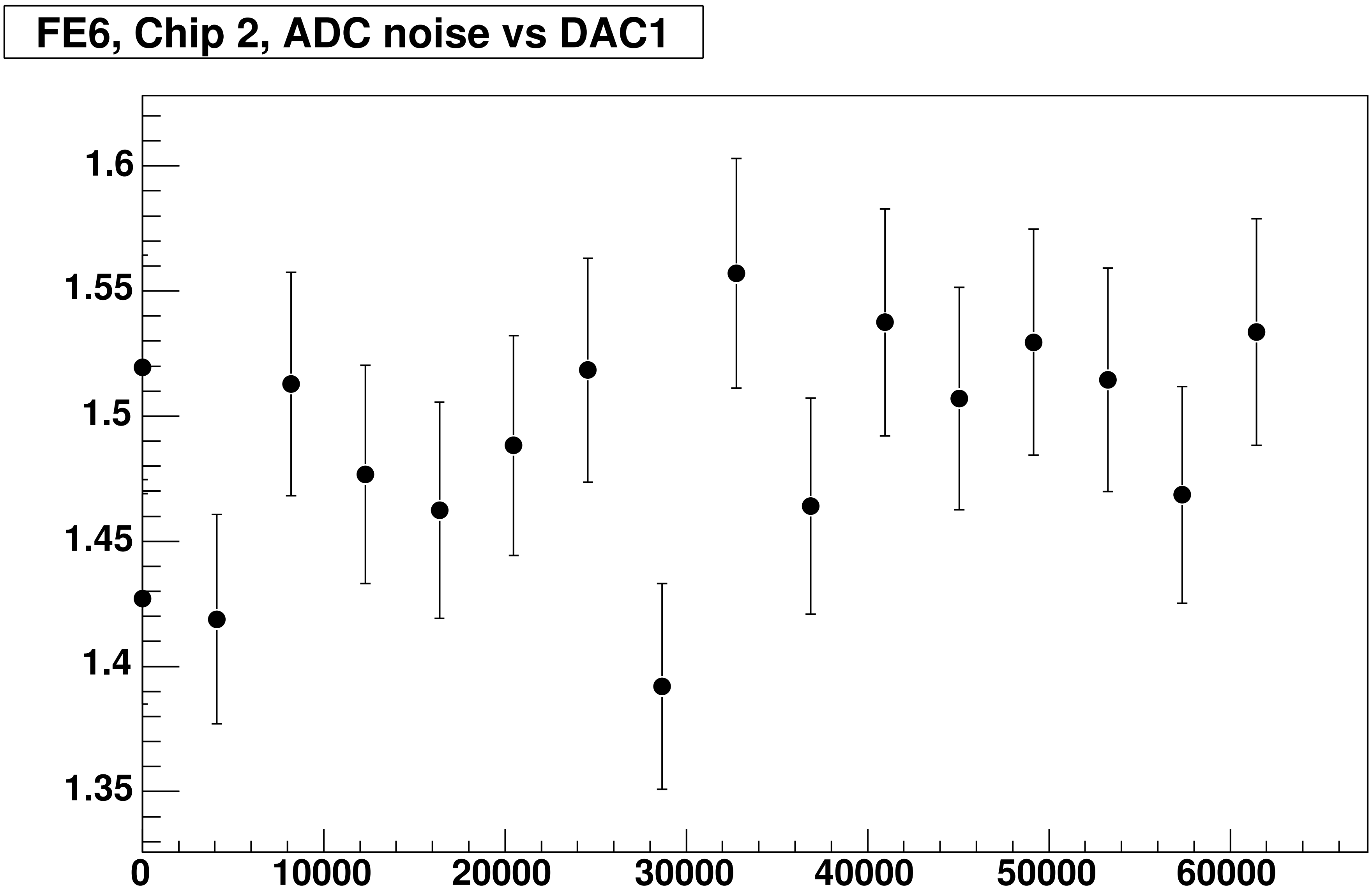



FE6, Chip 2, ADC mean vs DAC0
χ^2 / ndf 5972 / 11
p0 50.16 ± 0.04249
p1 0.4498 ± 1.358e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

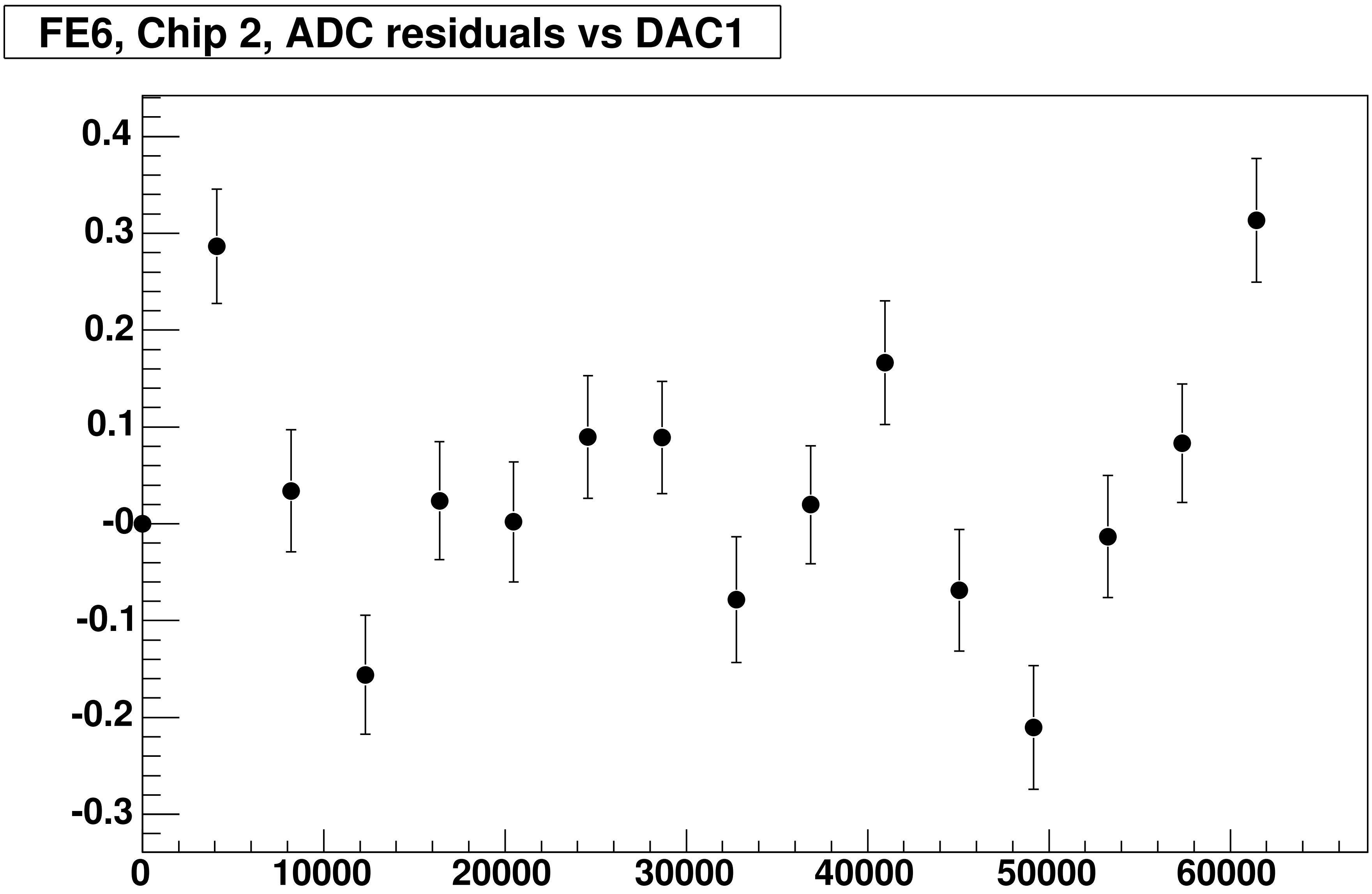

FE6, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

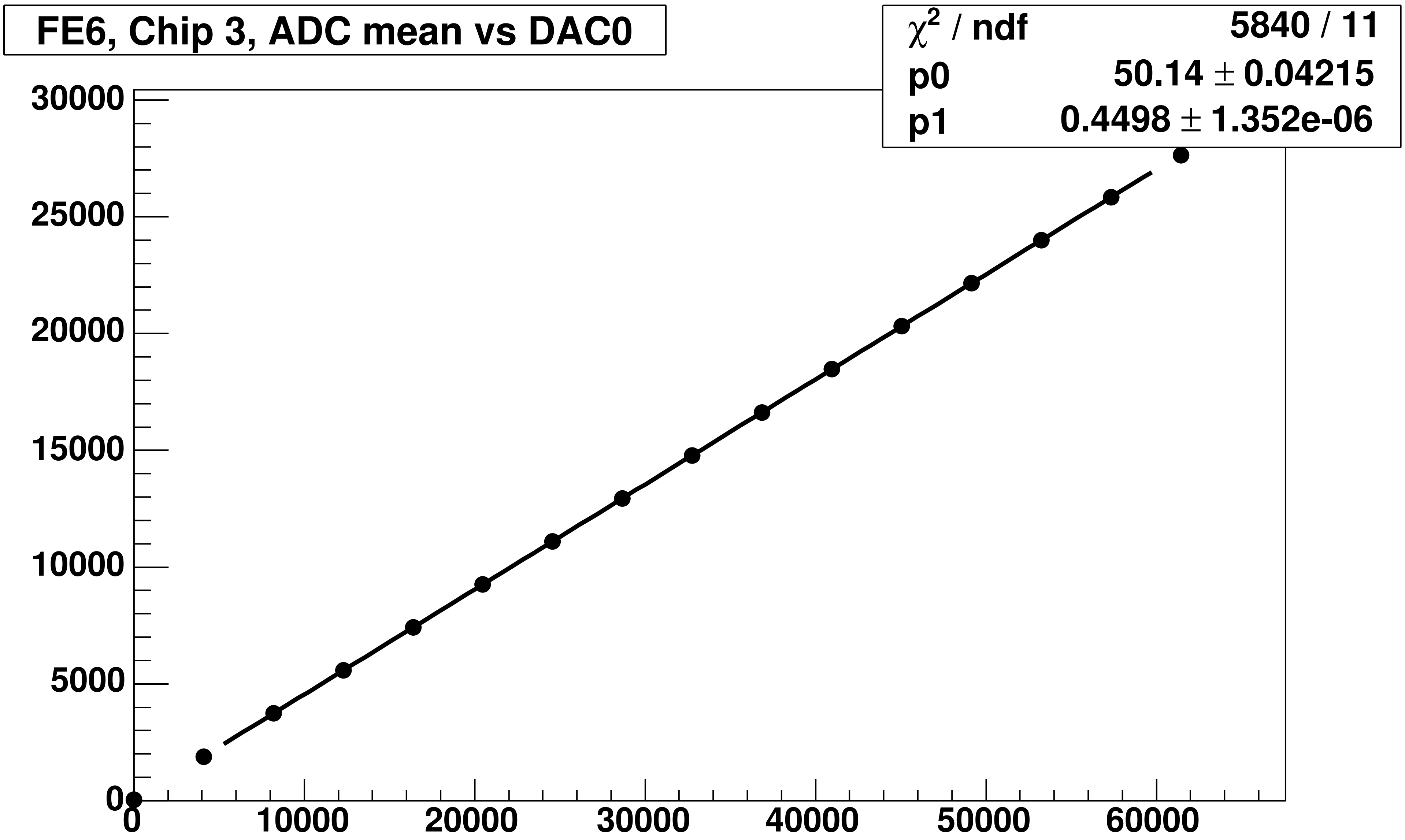

FE6, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE6, Chip 2, ADC mean vs DAC1
χ^2 / ndf 33.53 / 11
p0 47.41 ± 0.04059
p1 5.286e-06 ± 1.127e-06
48.2
48
47.8
47.6
47.4
47.2
0
10000
20000
30000
40000
50000
60000

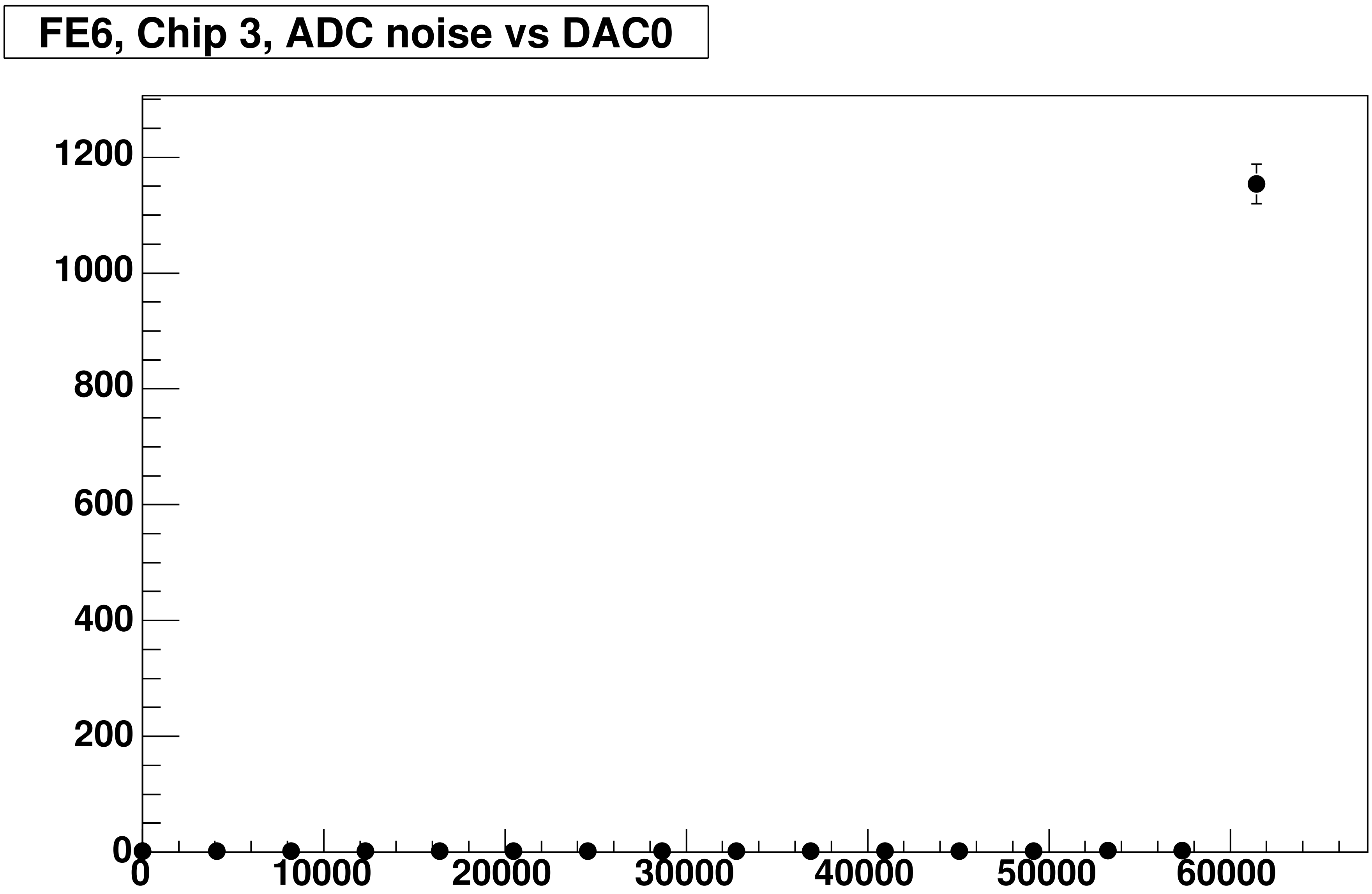


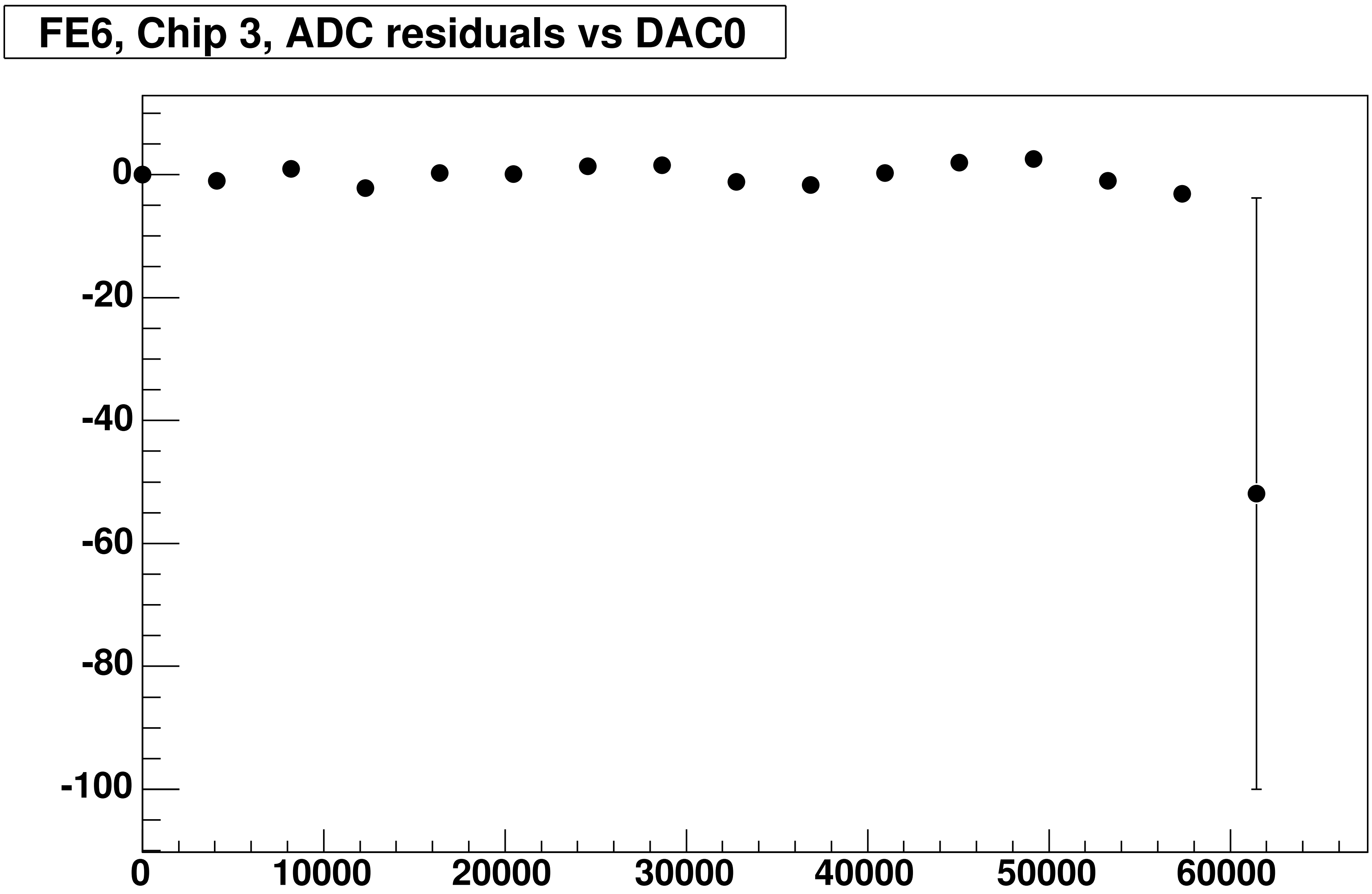
FE6, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

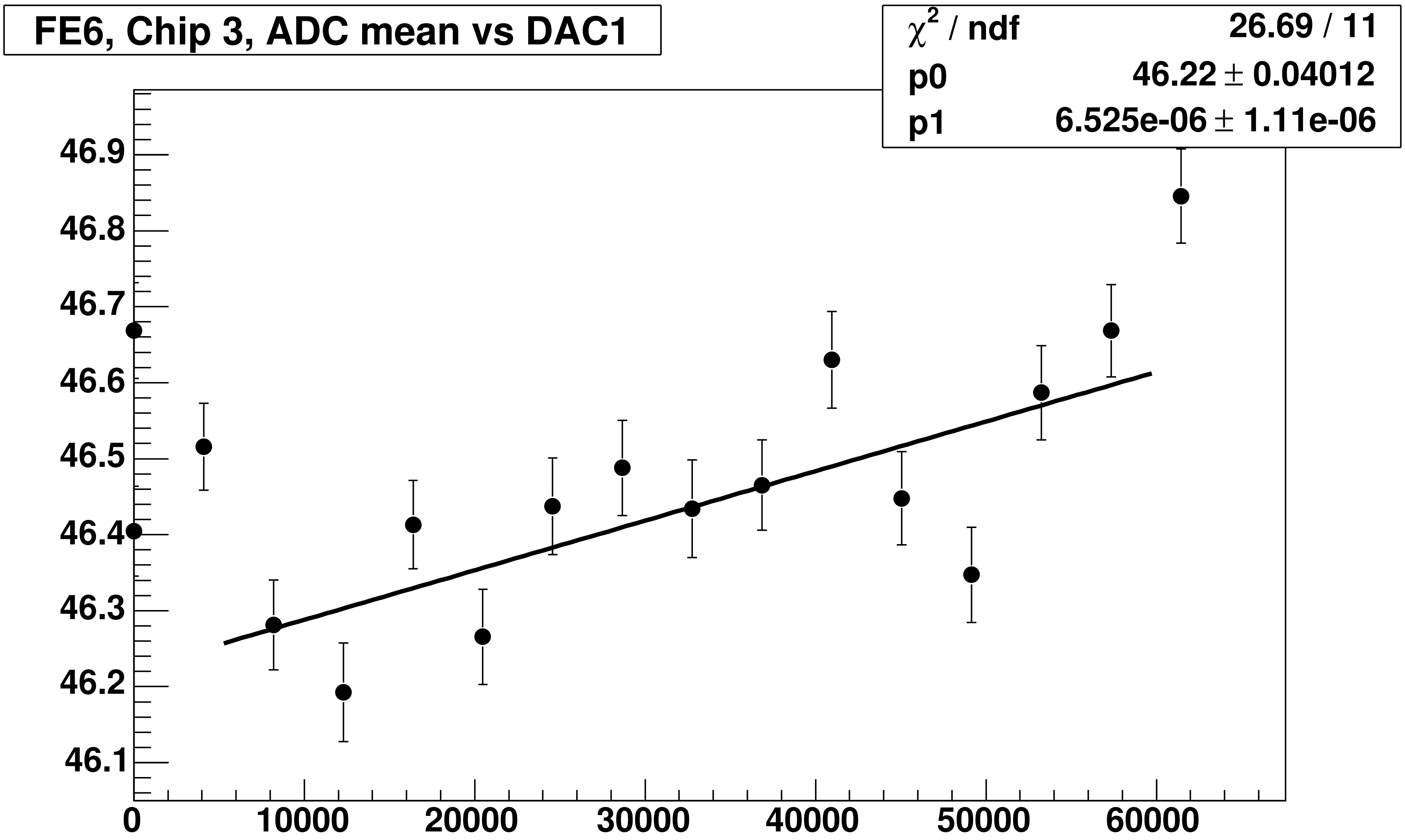

FE6, Chip 2, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

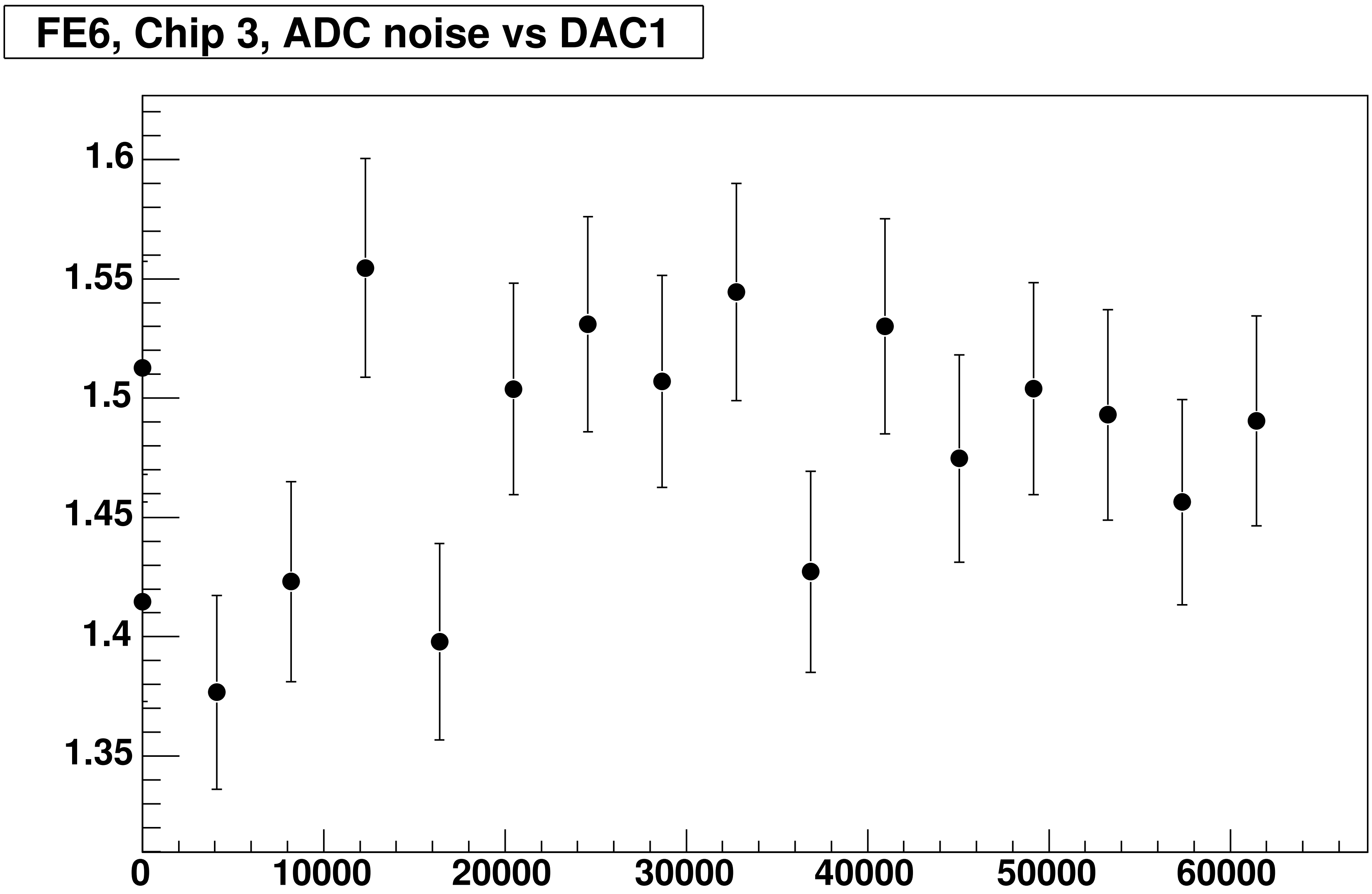


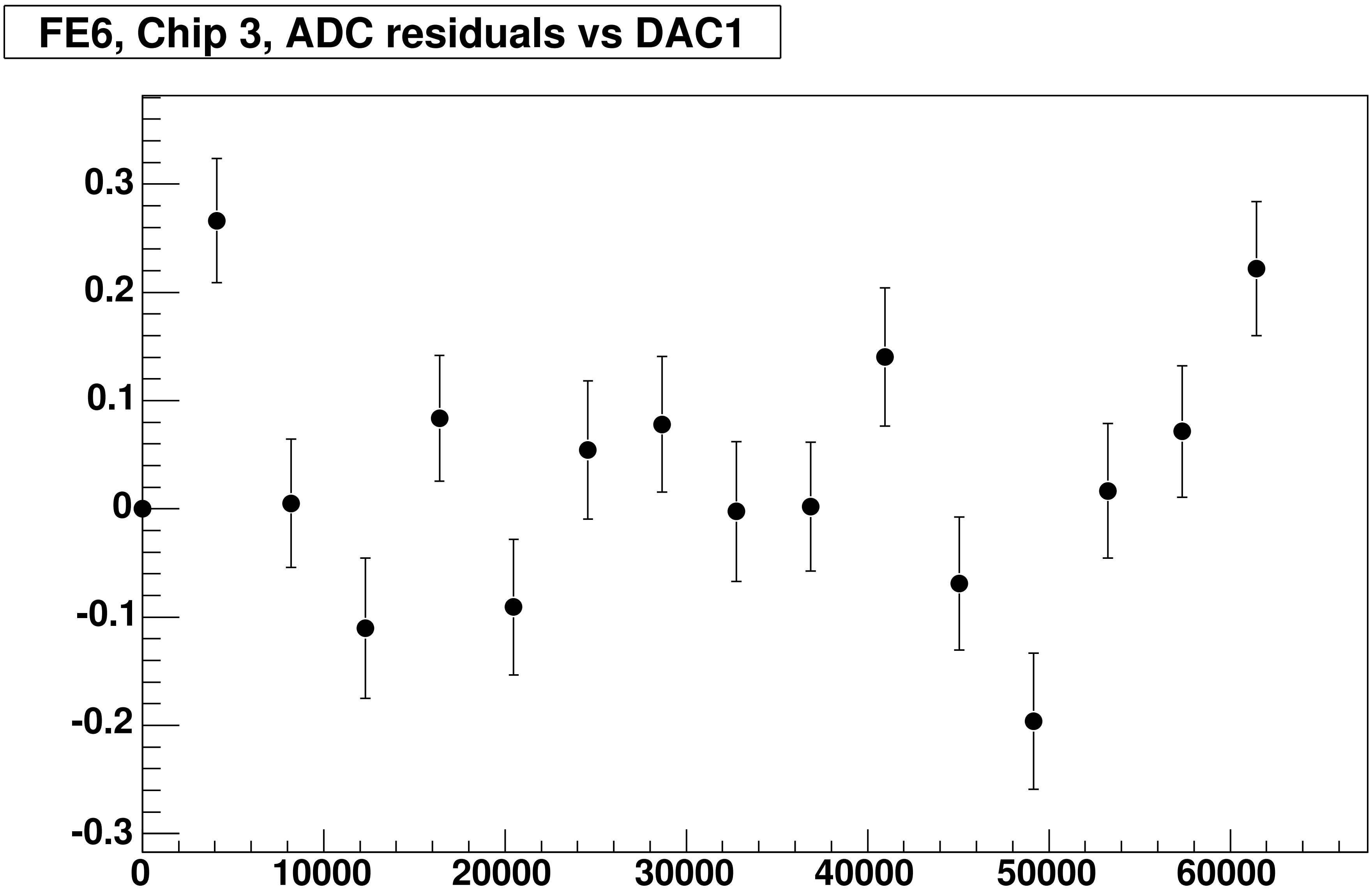
FE6, Chip 3, ADC mean vs DAC0
χ^2 / ndf 5840 / 11
p0 50.14 ± 0.04215
p1 0.4498 ± 1.352e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

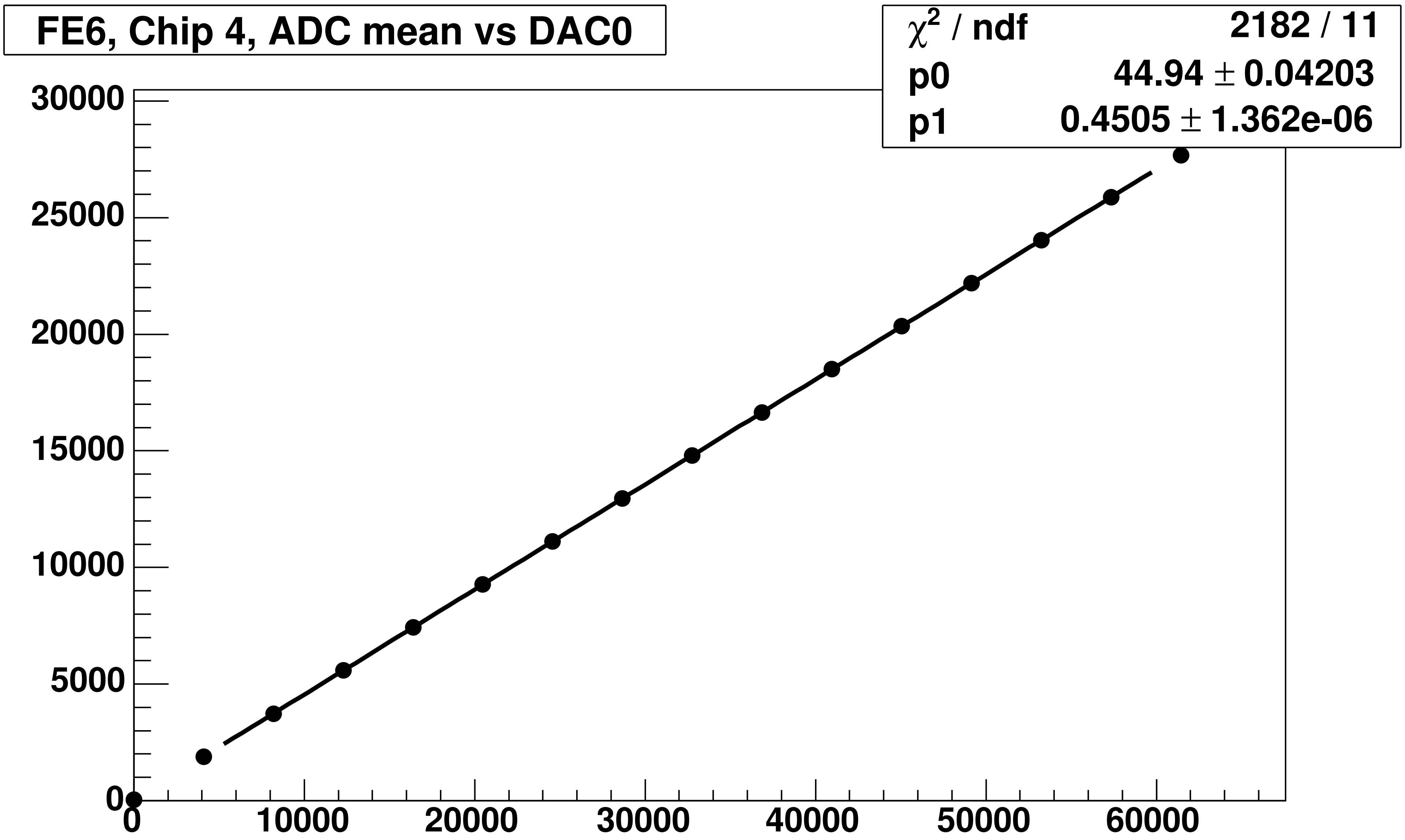

FE6, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

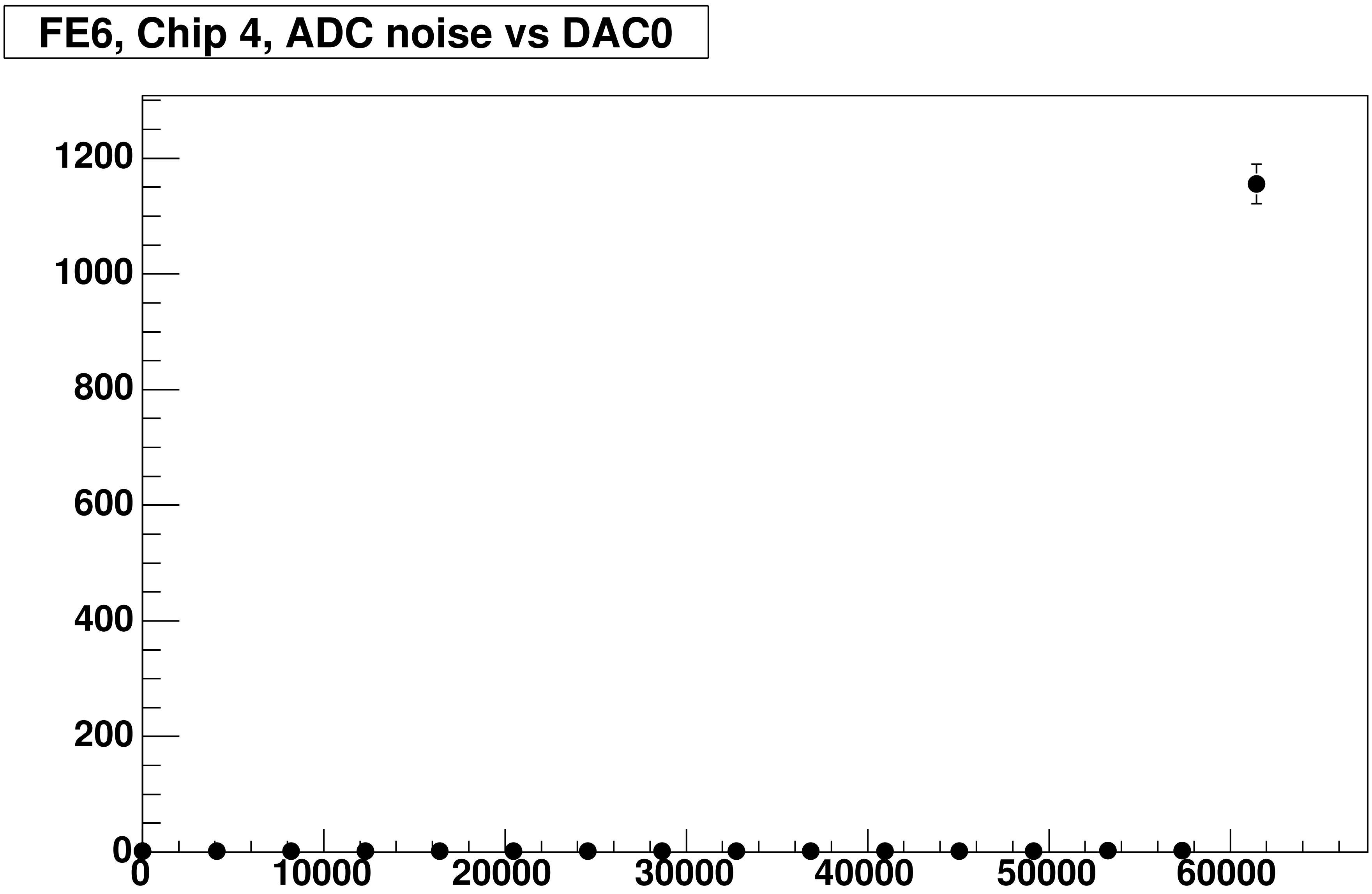

FE6, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE6, Chip 3, ADC mean vs DAC1
χ² / ndf 26.69 / 11
p0 46.22 ± 0.04012
p1 6.525e-06 ± 1.11e-06
46.9
46.8
46.7
46.6
46.5
46.4
46.3
46.2
46.1
0
10000
20000
30000
40000
50000
60000

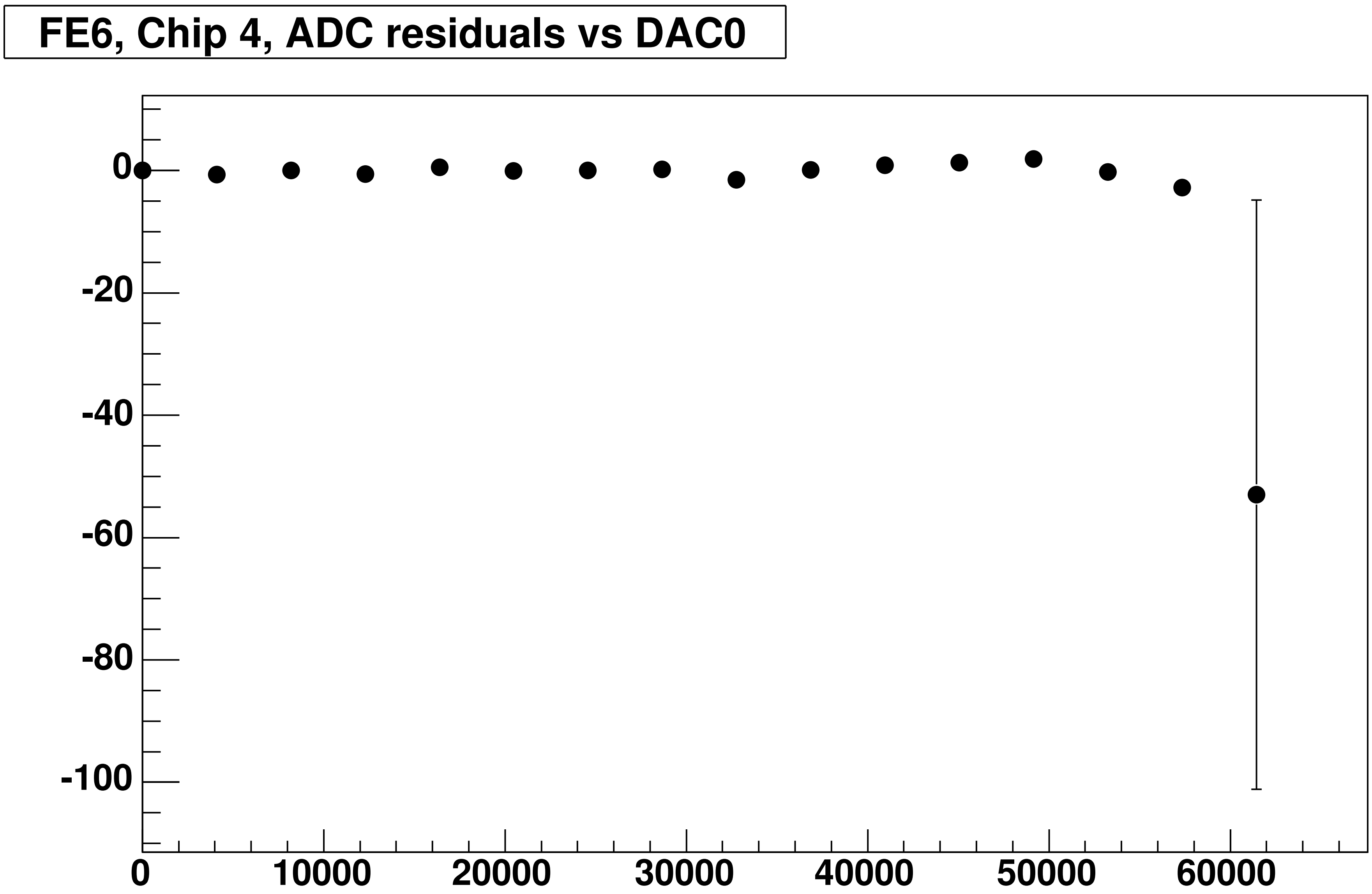

FE6, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

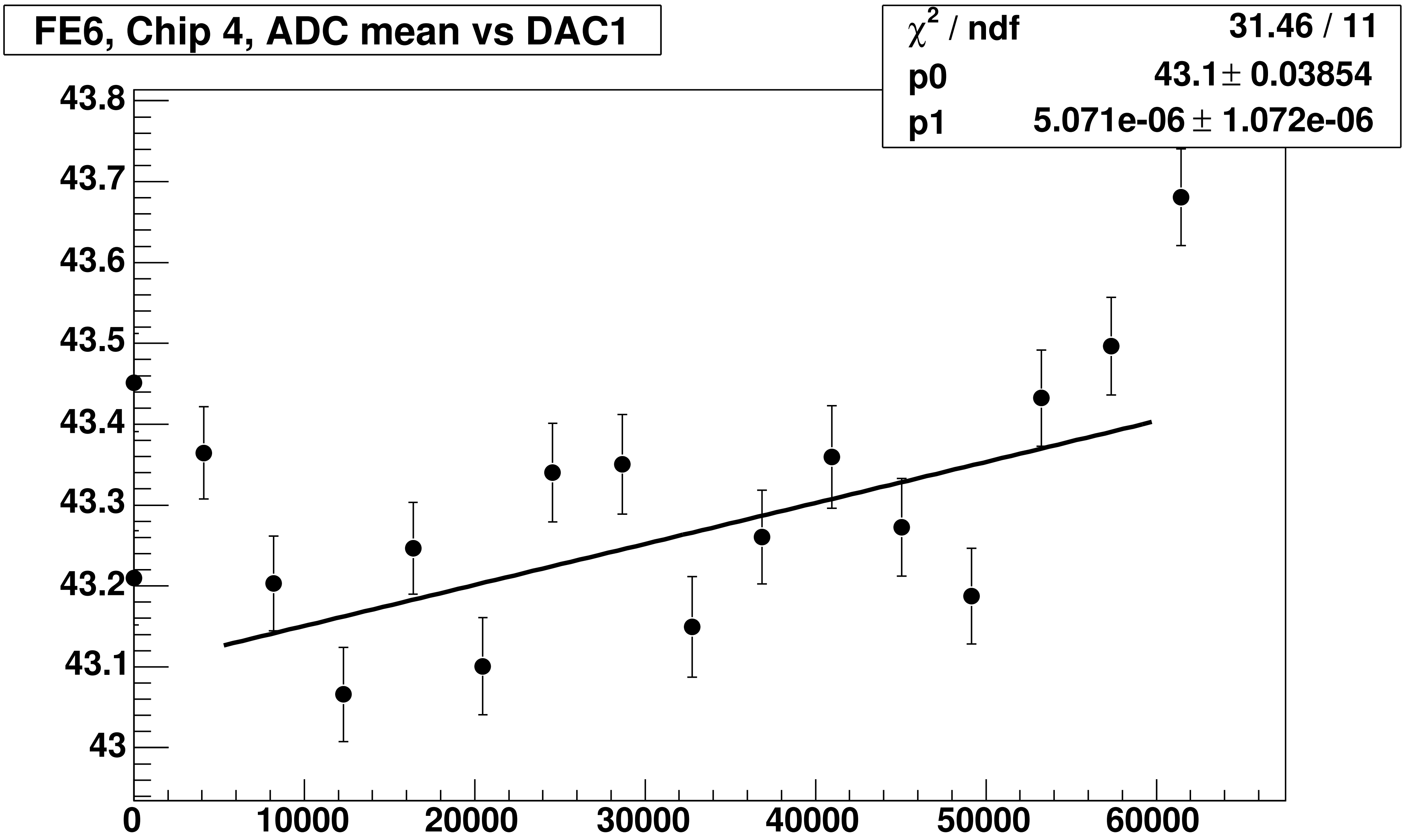

FE6, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE6, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2182 / 11
p0 44.94 ± 0.04203
p1 0.4505 ± 1.362e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000



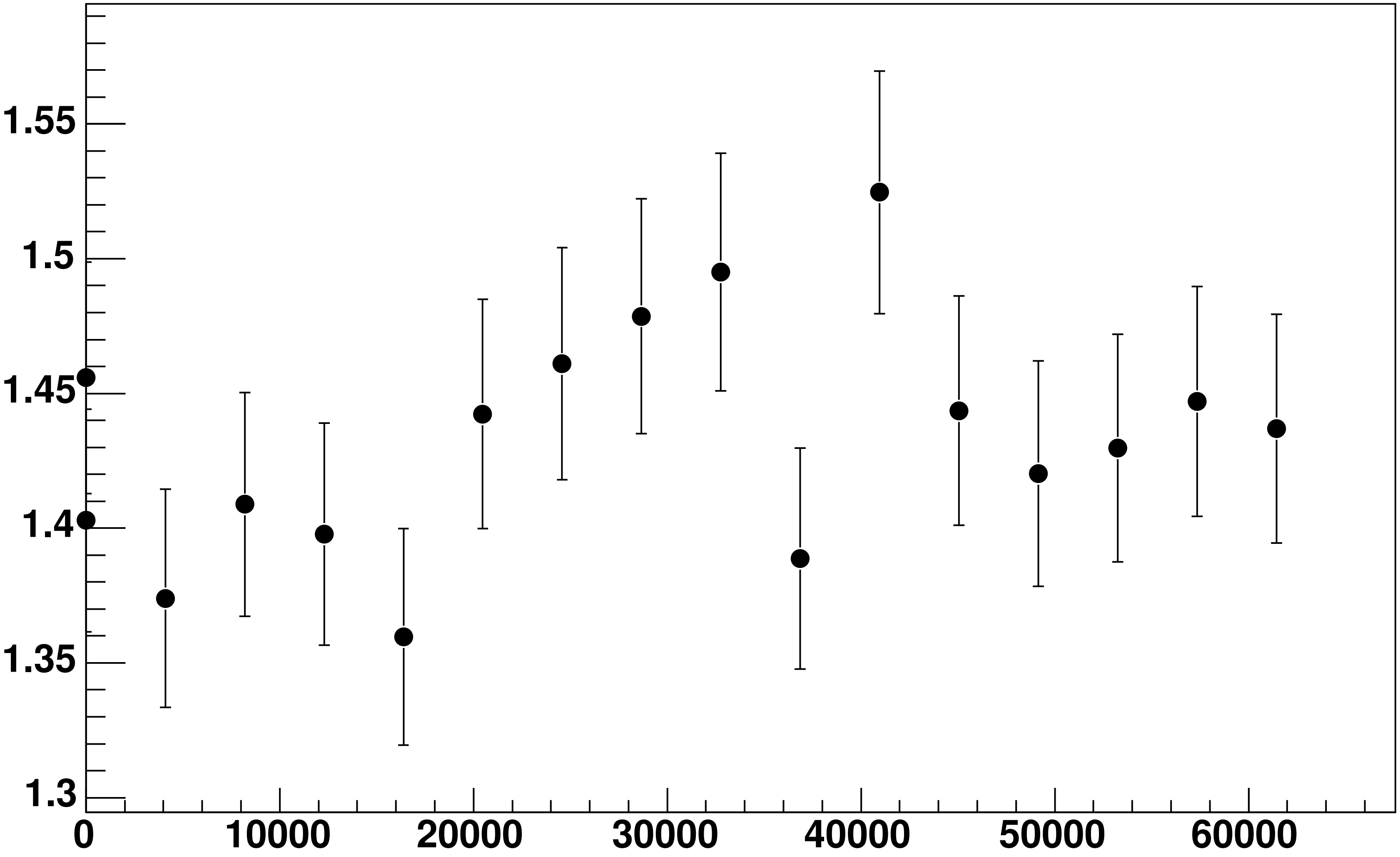
FE6, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

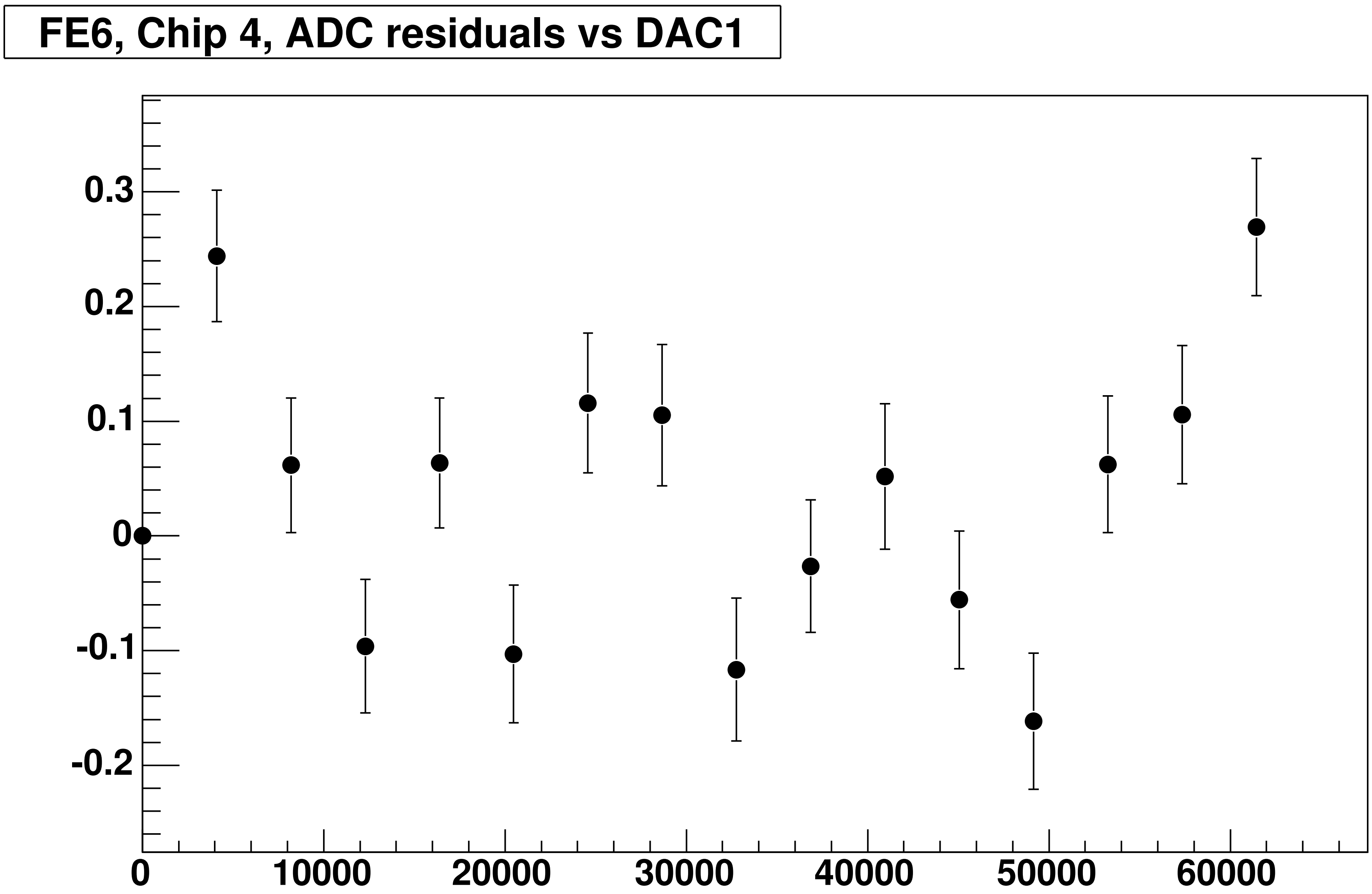

FE6, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

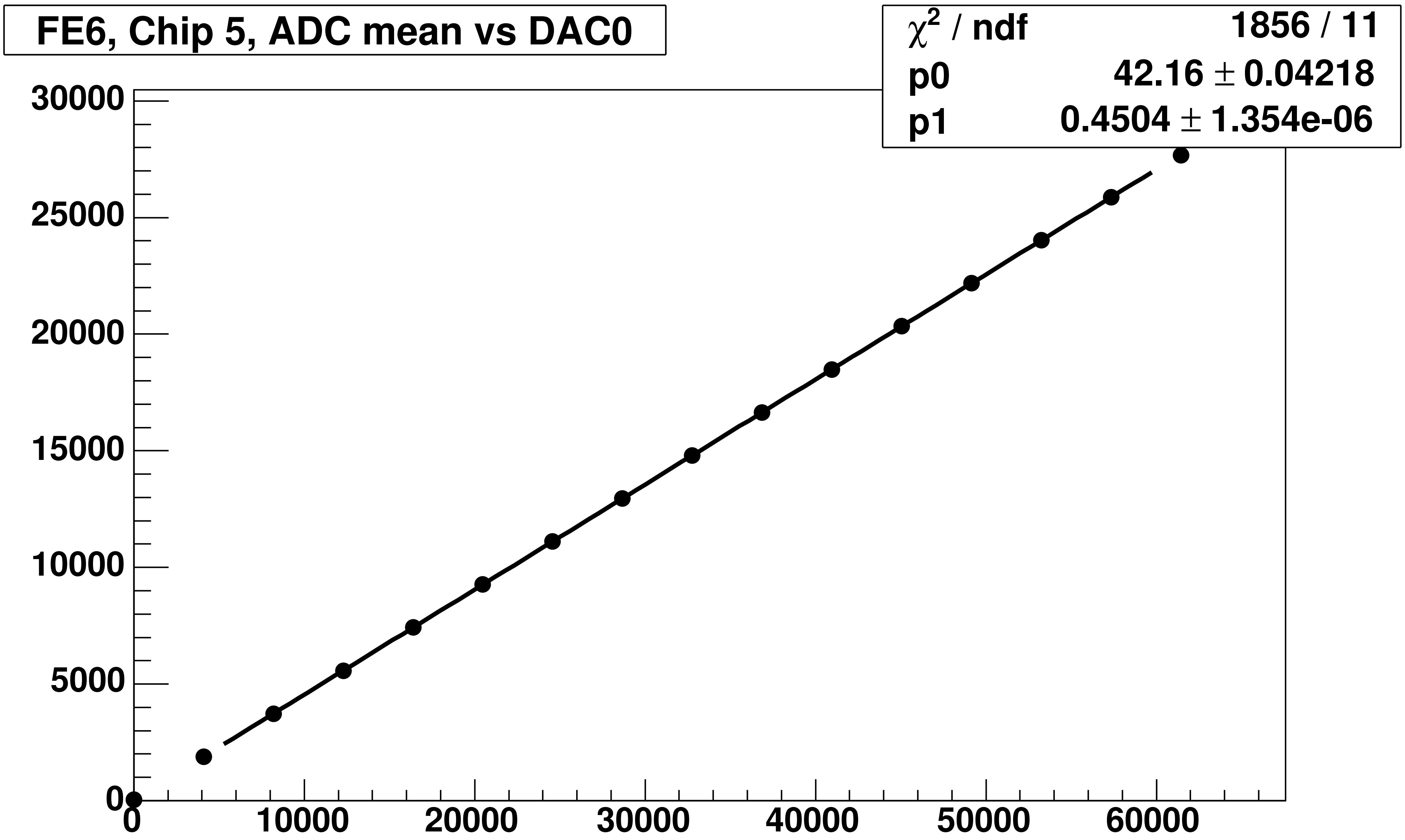


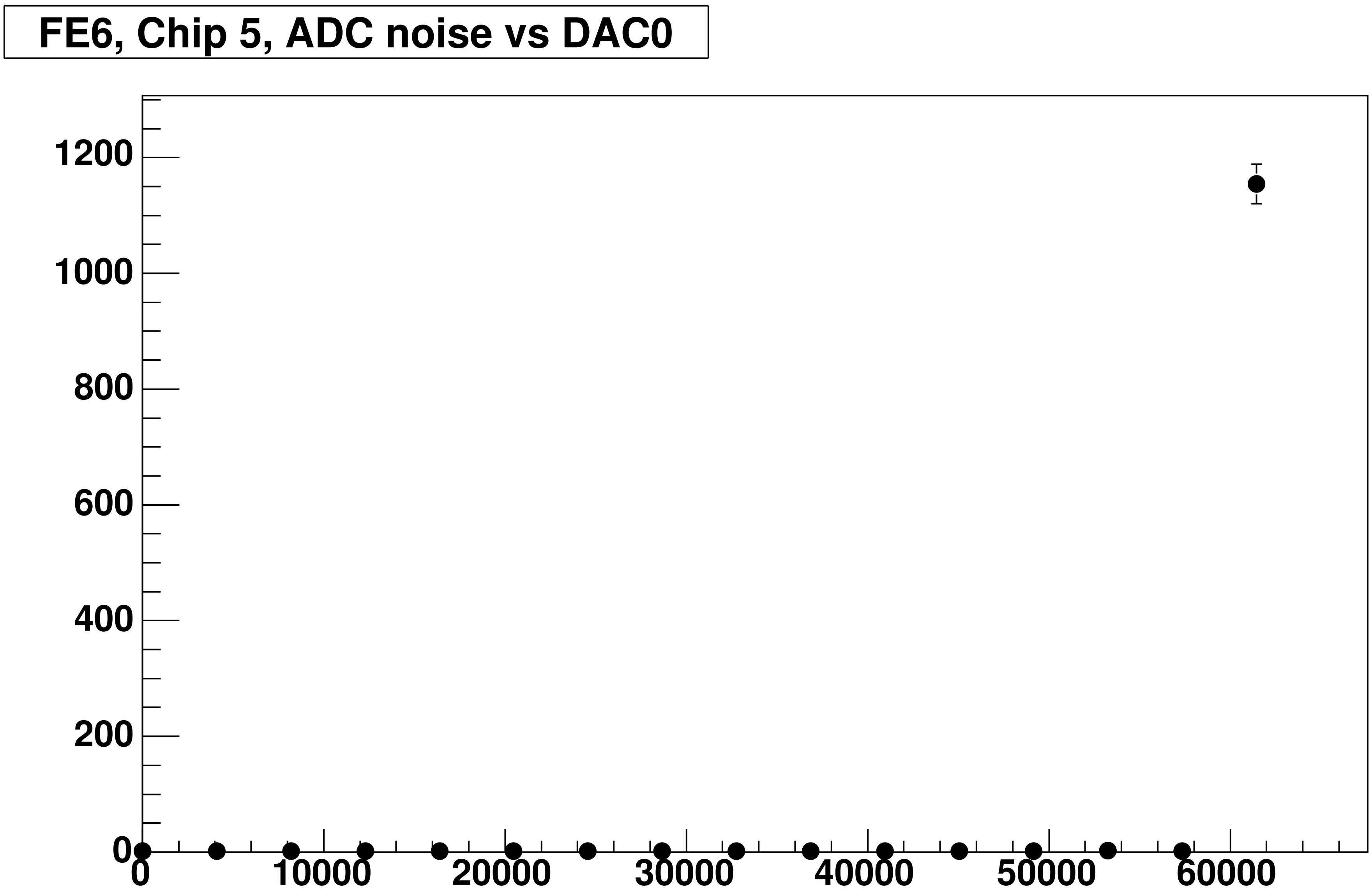
FE6, Chip 4, ADC mean vs DAC1
χ^2 / ndf 31.46 / 11
p0 43.1 ± 0.03854
p1 5.071e-06 ± 1.072e-06
43.8
43.7
43.6
43.5
43.4
43.3
43.2
43.1
43
0
10000
20000
30000
40000
50000
60000

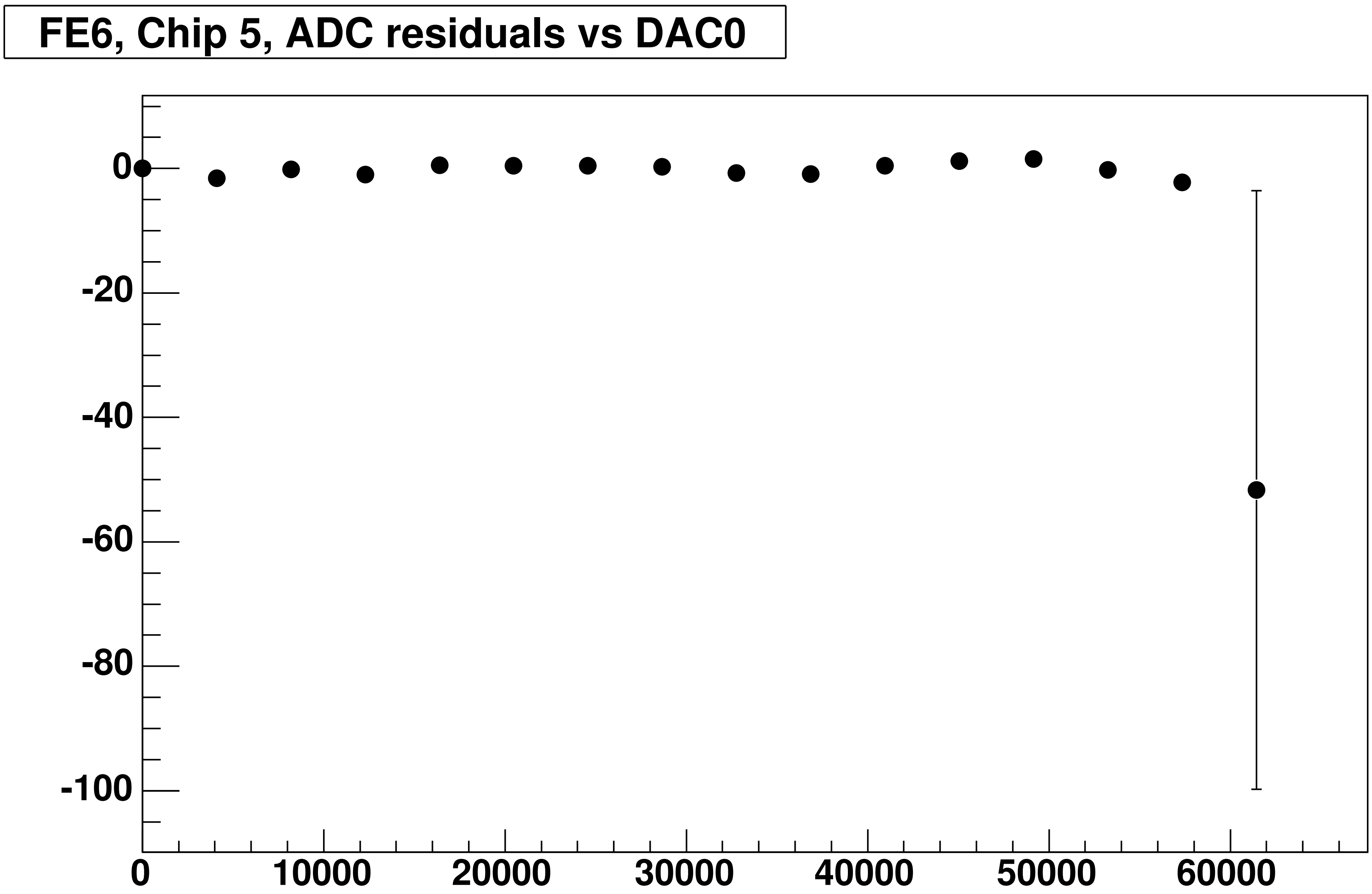
FE6, Chip 4, ADC noise vs DAC1

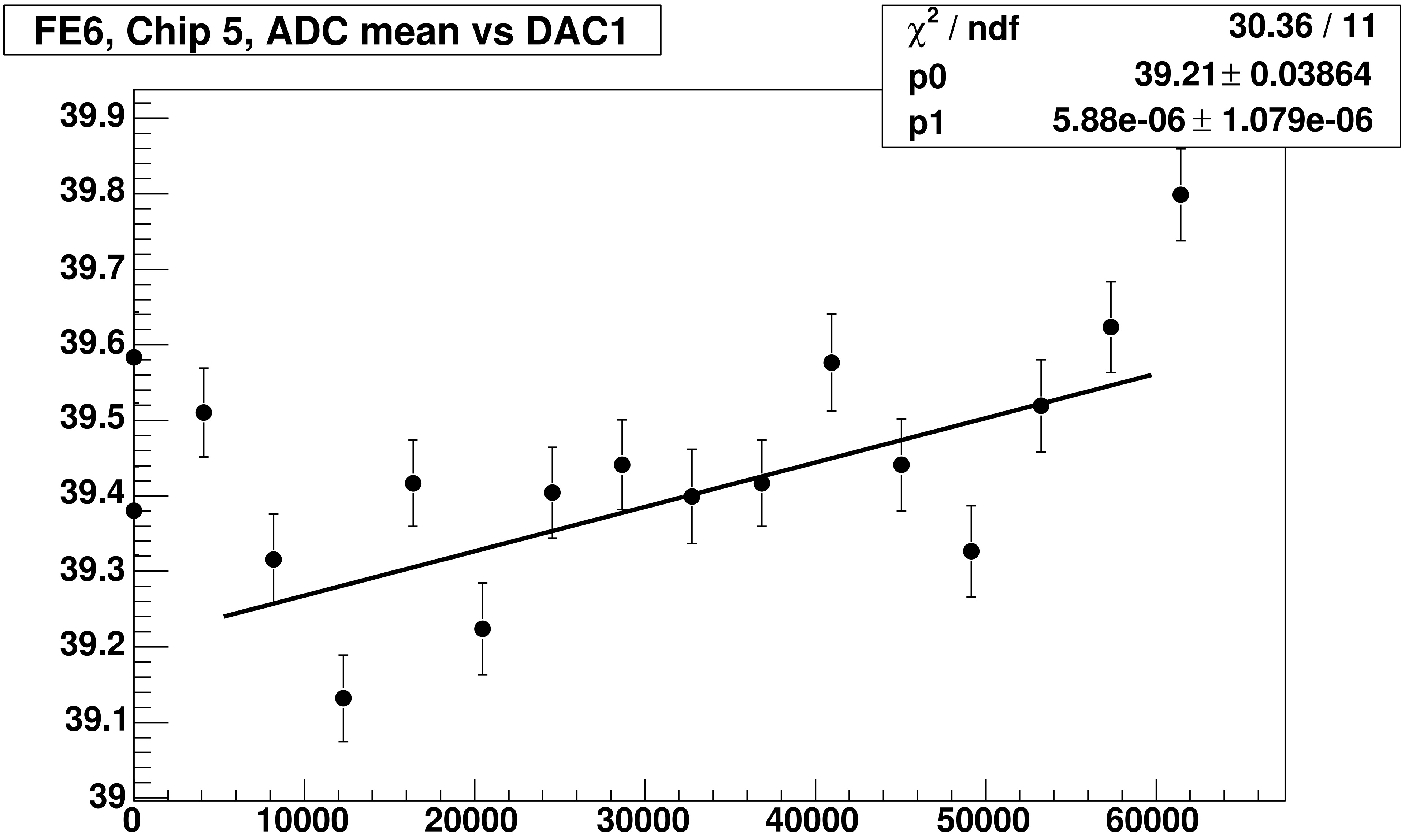



FE6, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

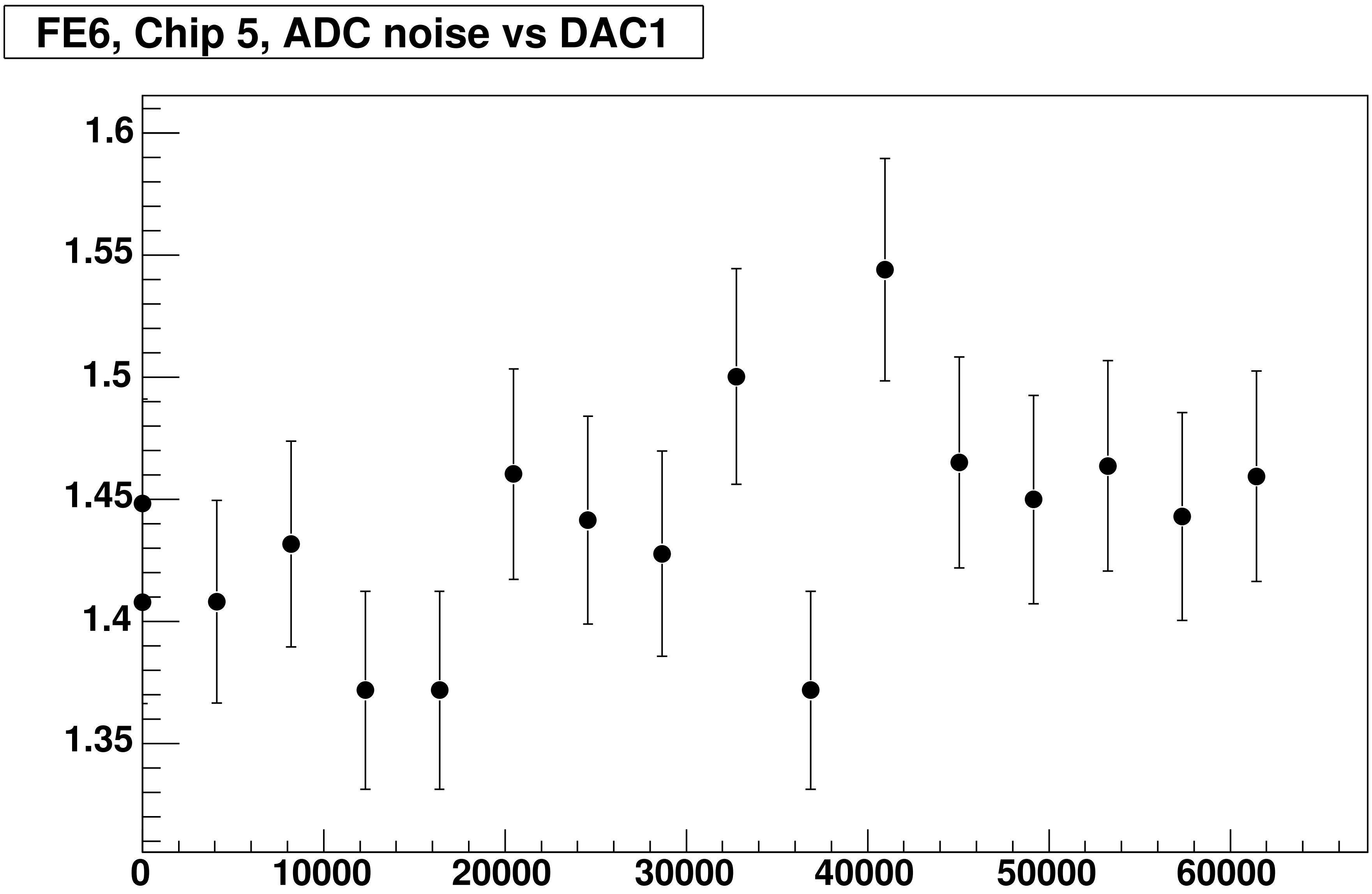

FE6, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1856 / 11
p0 42.16 ± 0.04218
p1 0.4504 ± 1.354e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

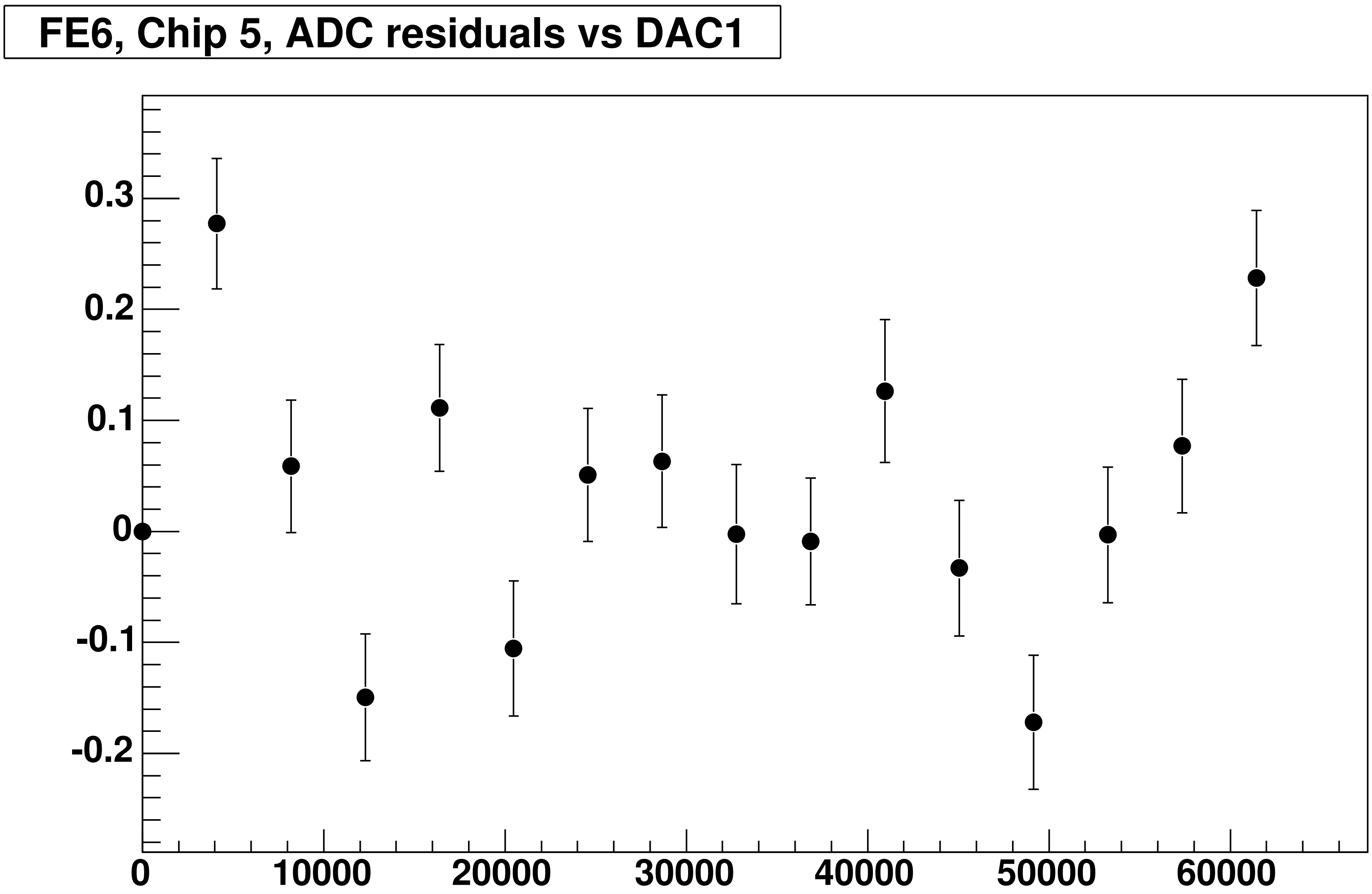

FE6, Chip 5, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

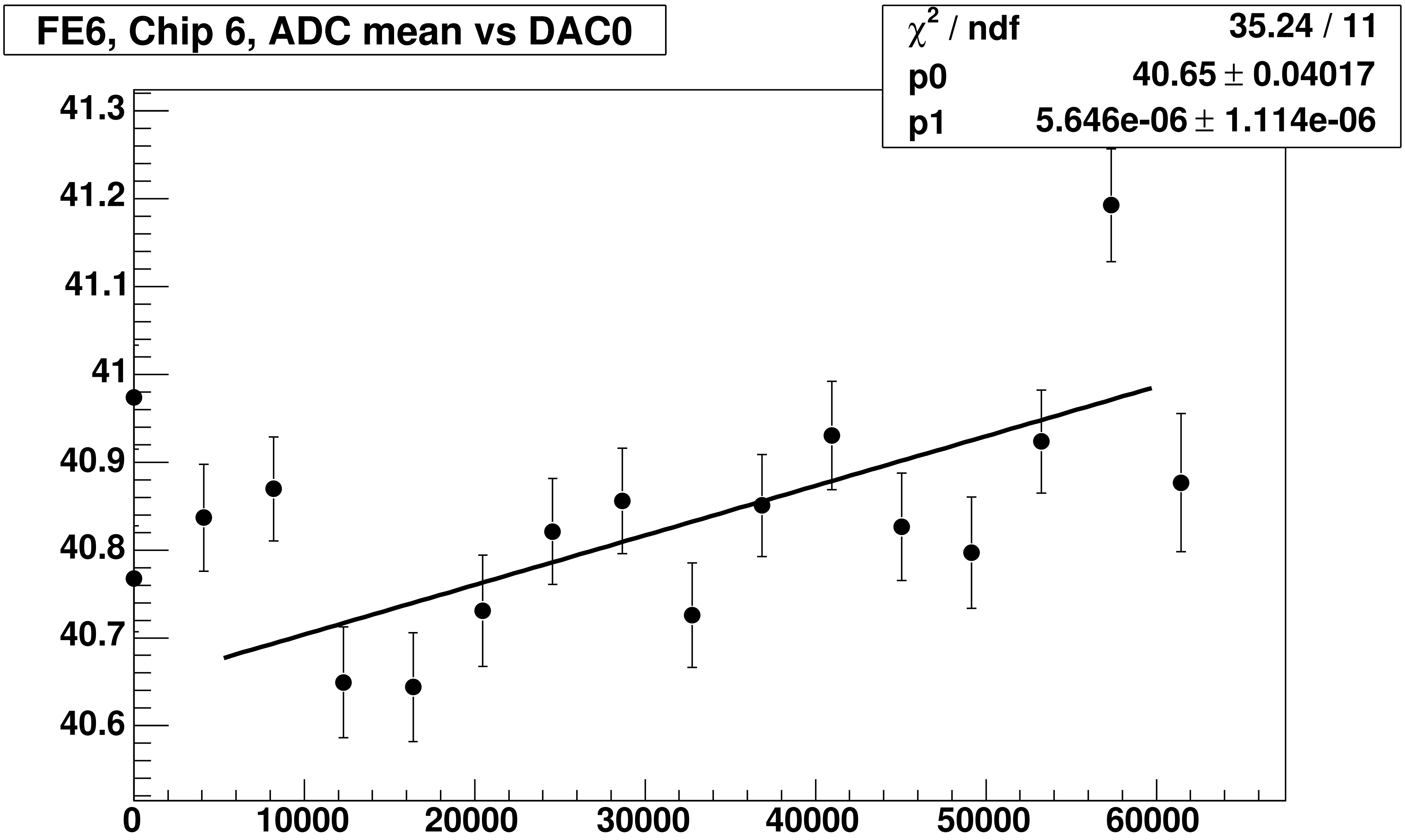

FE6, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



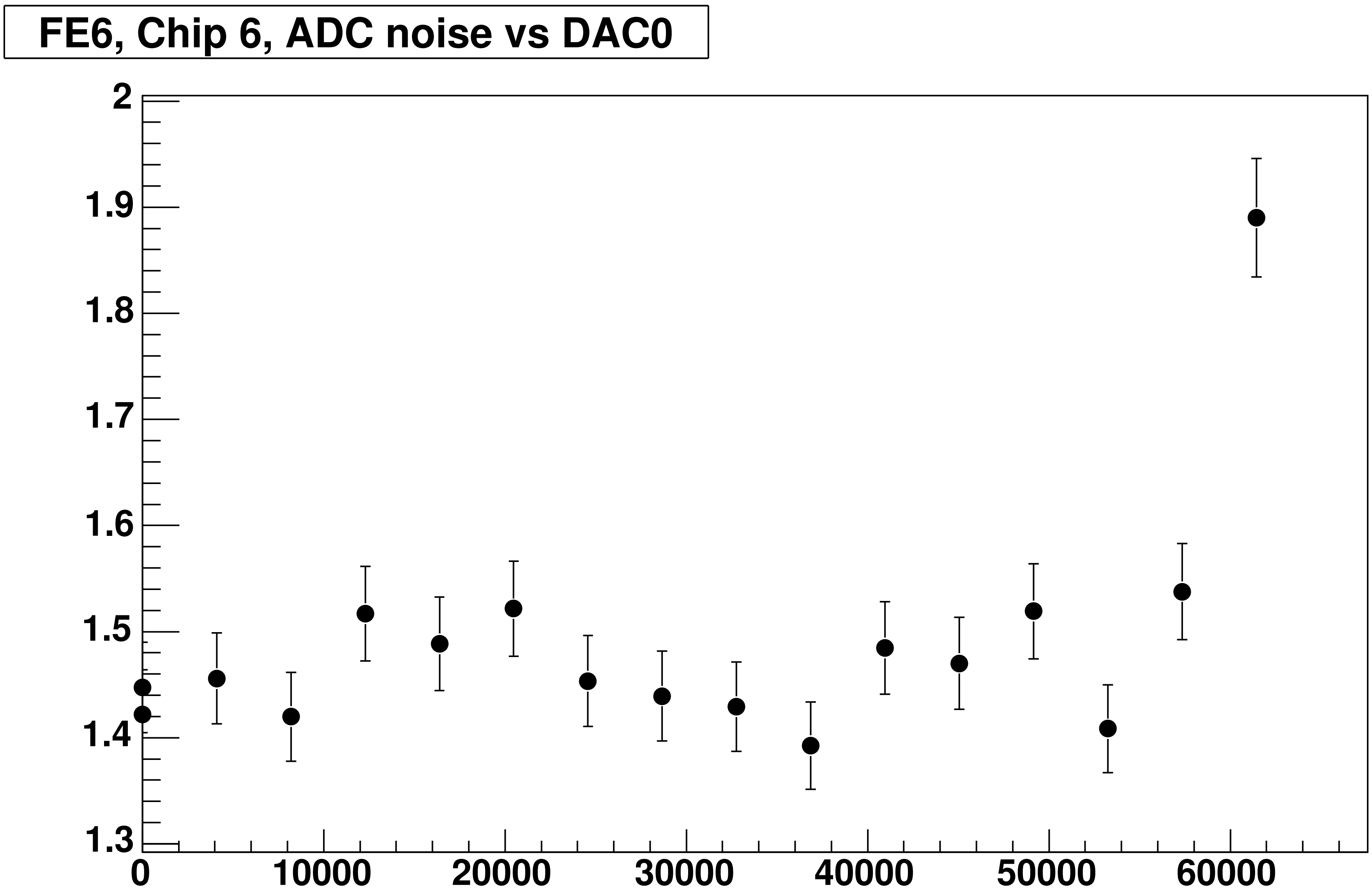
FE6, Chip 5, ADC mean vs DAC1
χ^2 / ndf 30.36 / 11
p0 39.21 ± 0.03864
p1 5.88e-06 ± 1.079e-06
39
39.1
39.2
39.3
39.4
39.5
39.6
39.7
39.8
39.9
0
10000
20000
30000
40000
50000
60000


FE6, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

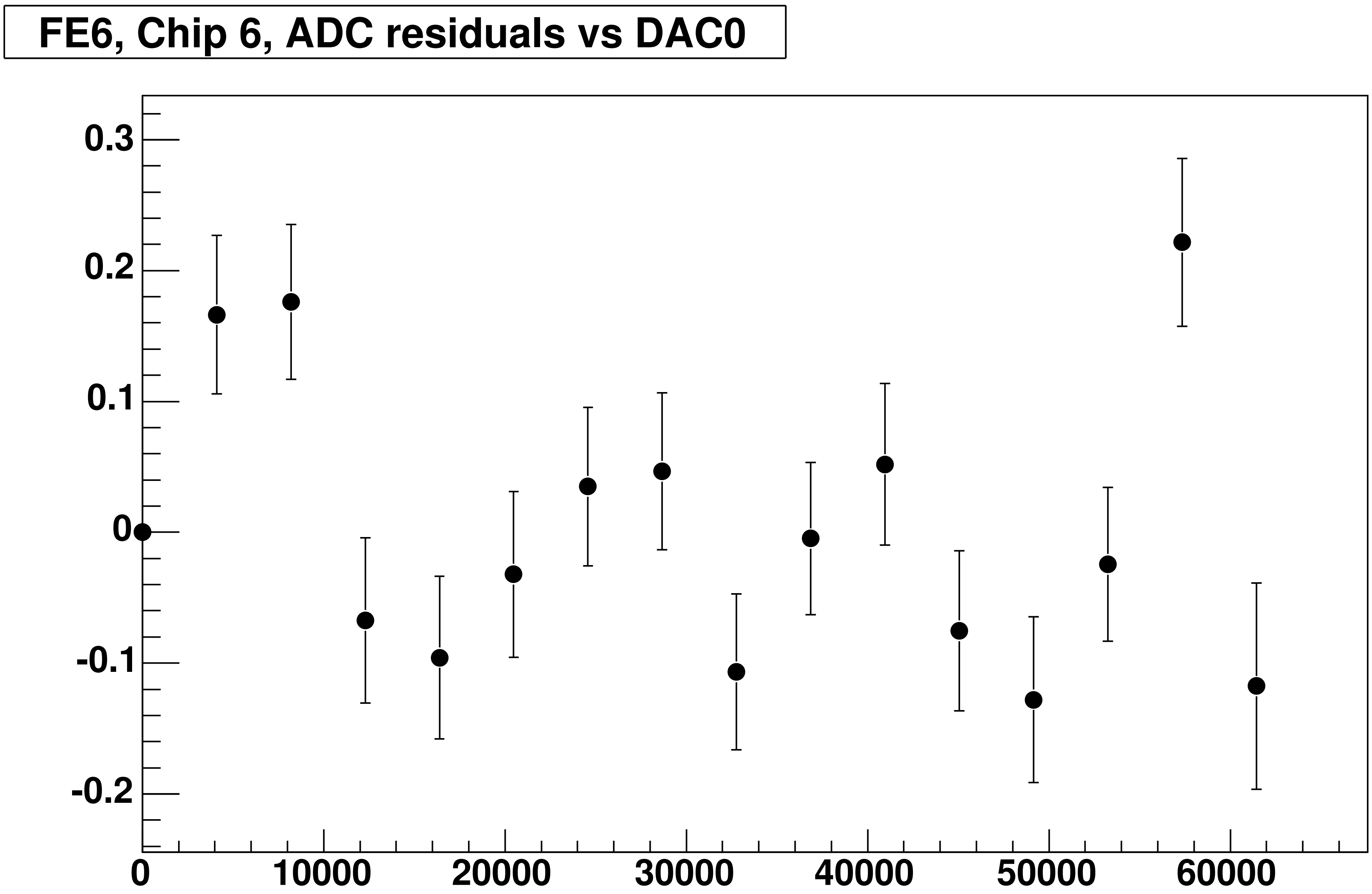

FE6, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

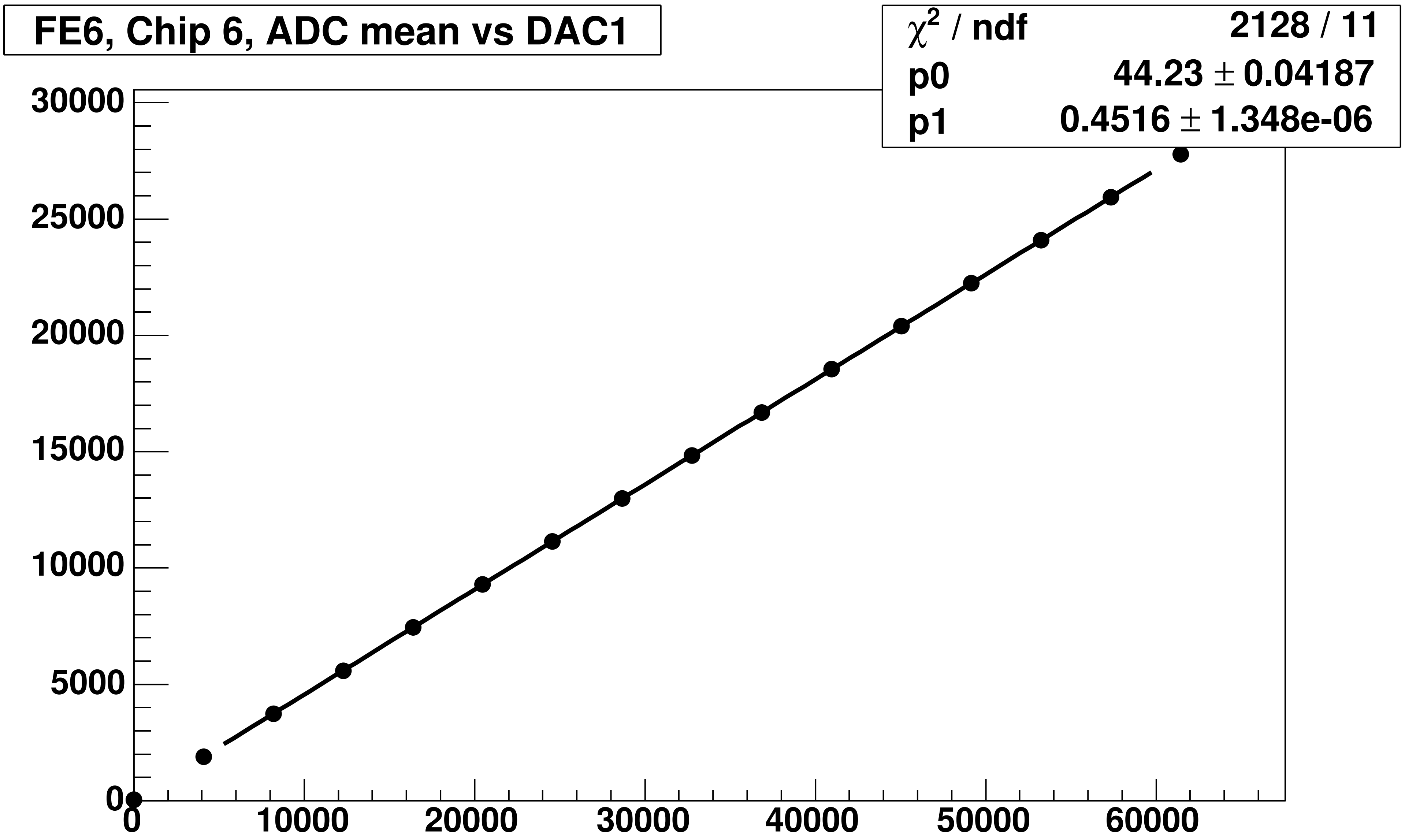


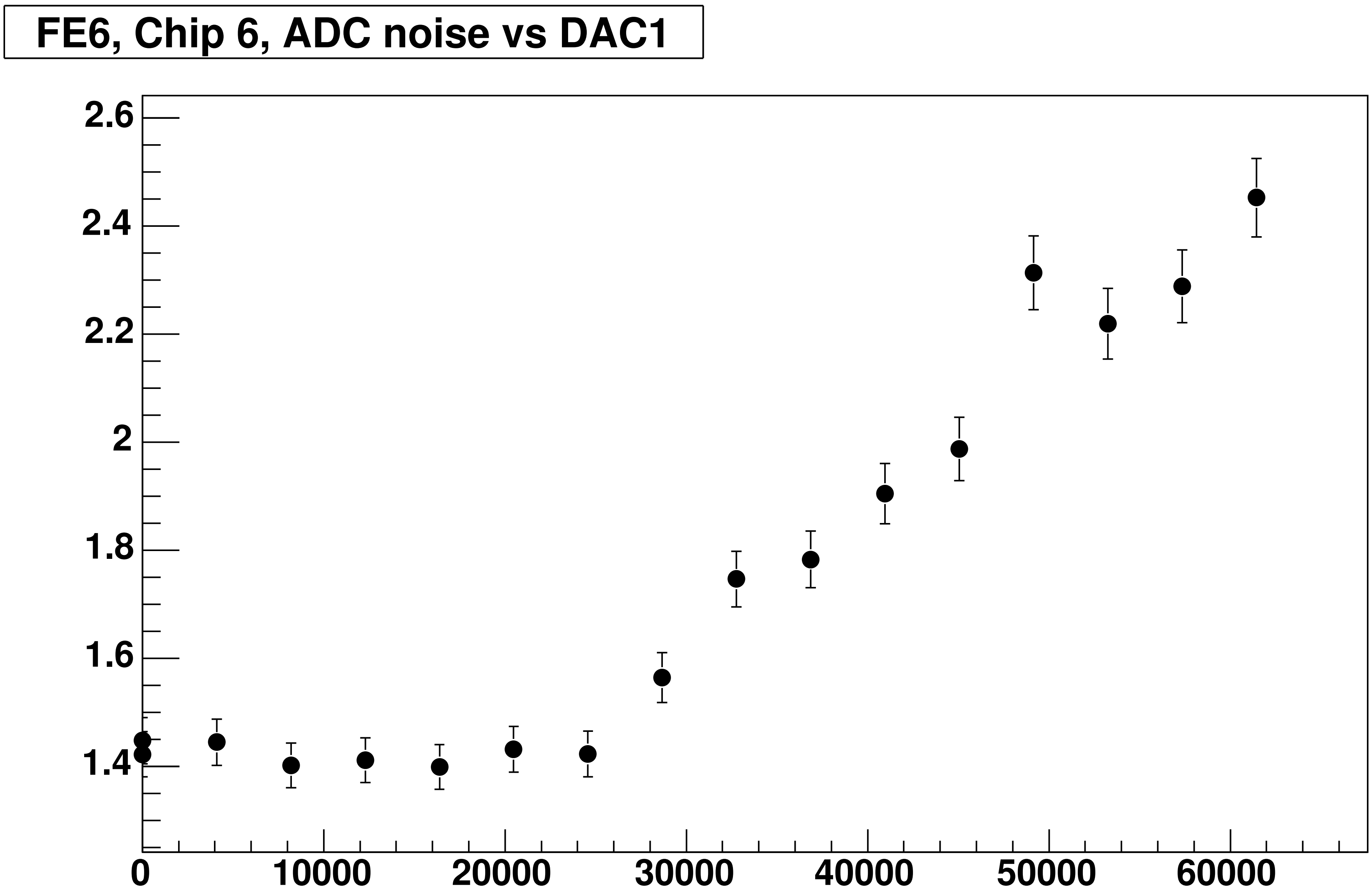
FE6, Chip 6, ADC mean vs DAC0
χ^2 / ndf 35.24 / 11
p0 40.65 ± 0.04017
p1 5.646e-06 ± 1.114e-06
41.3
41.2
41.1
41
40.9
40.8
40.7
40.6
0
10000
20000
30000
40000
50000
60000

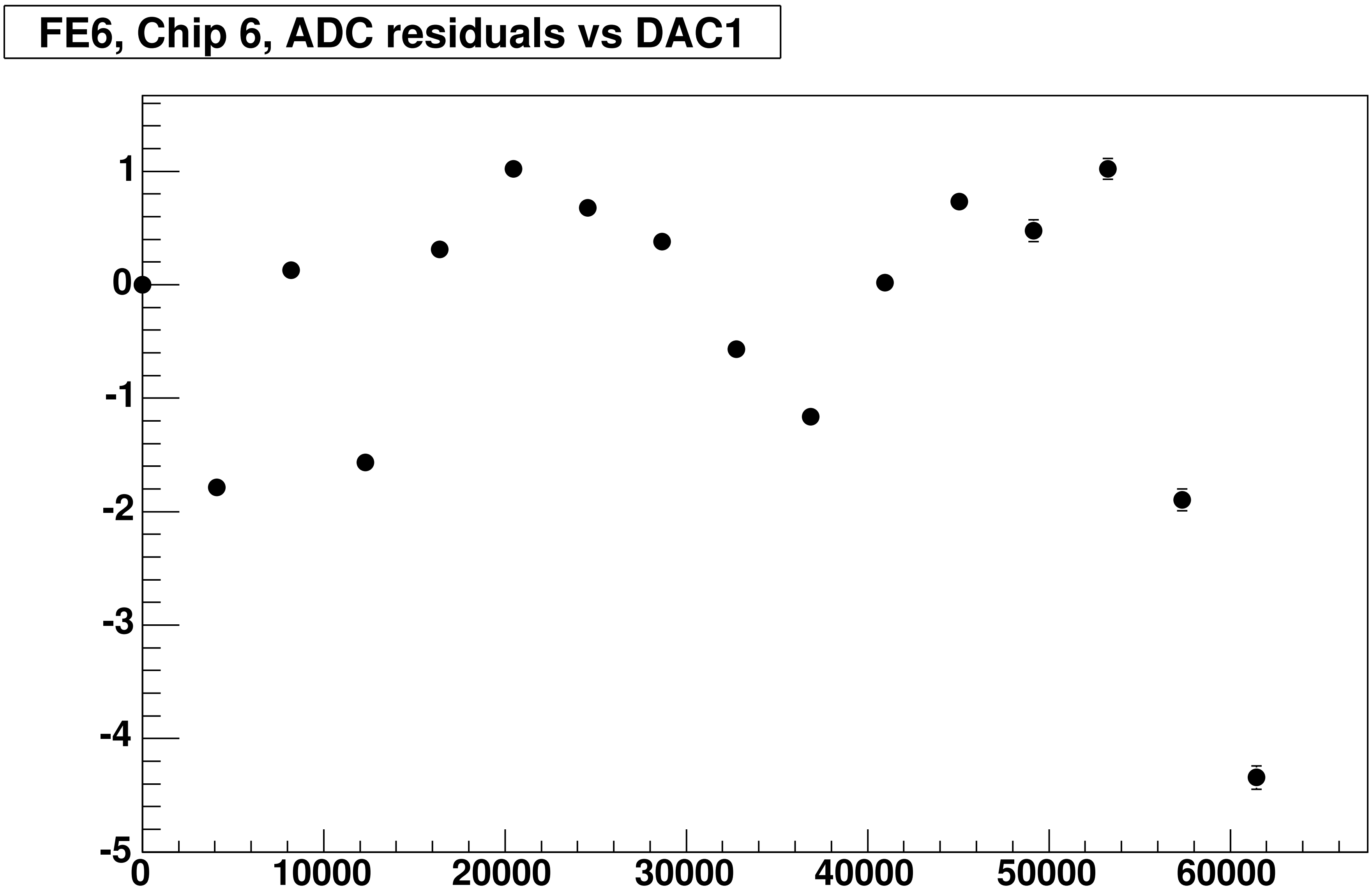


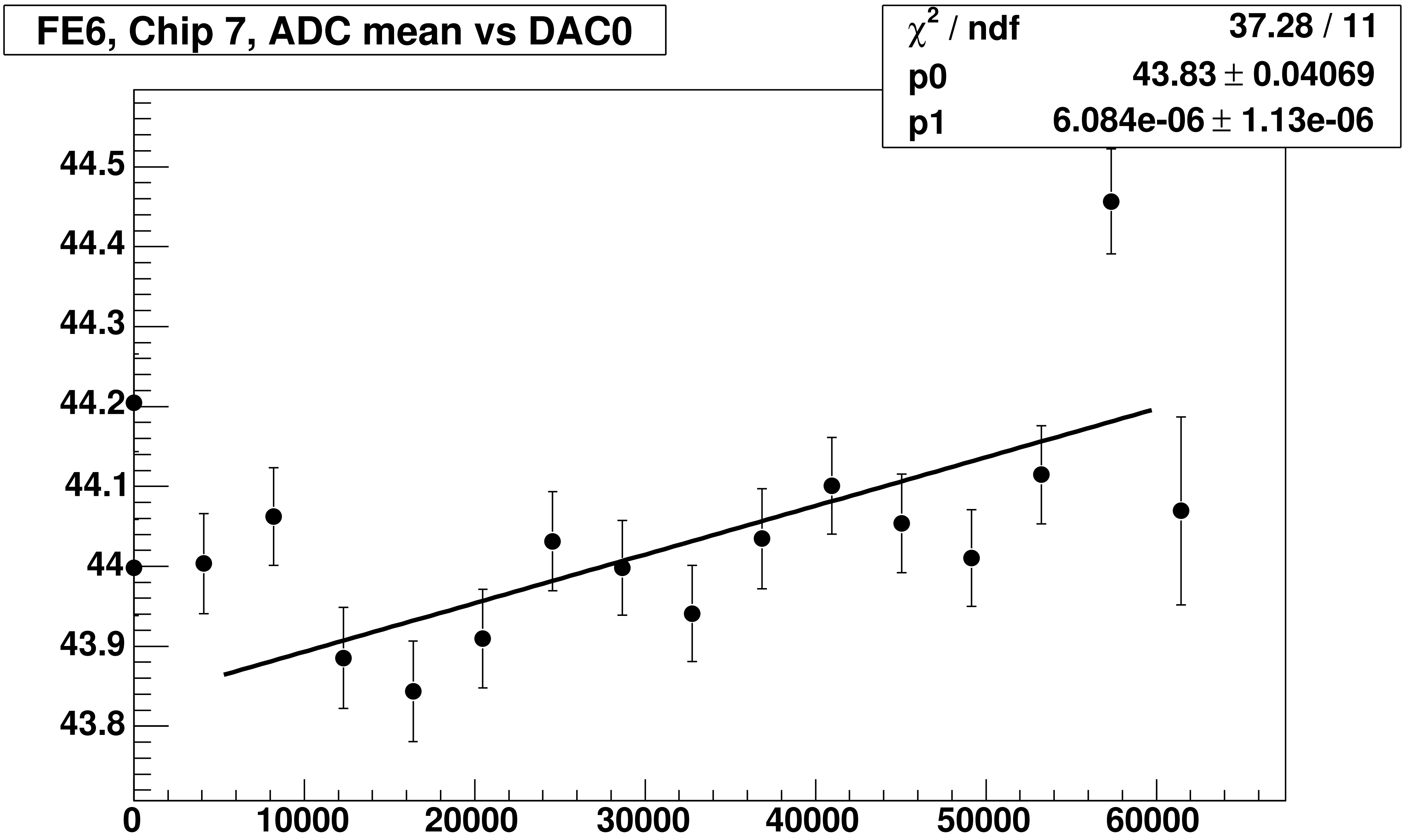
FE6, Chip 6, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

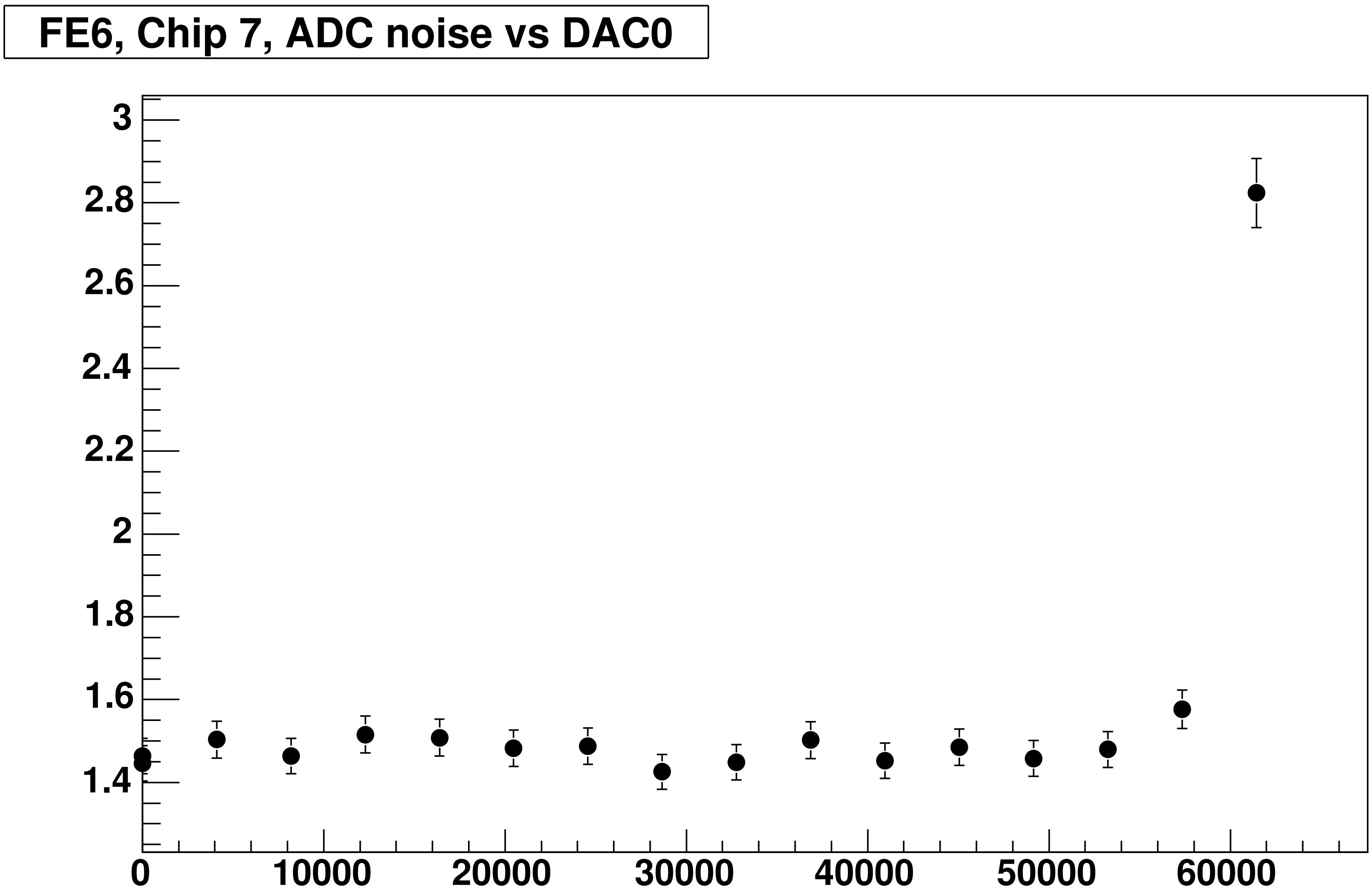

FE6, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

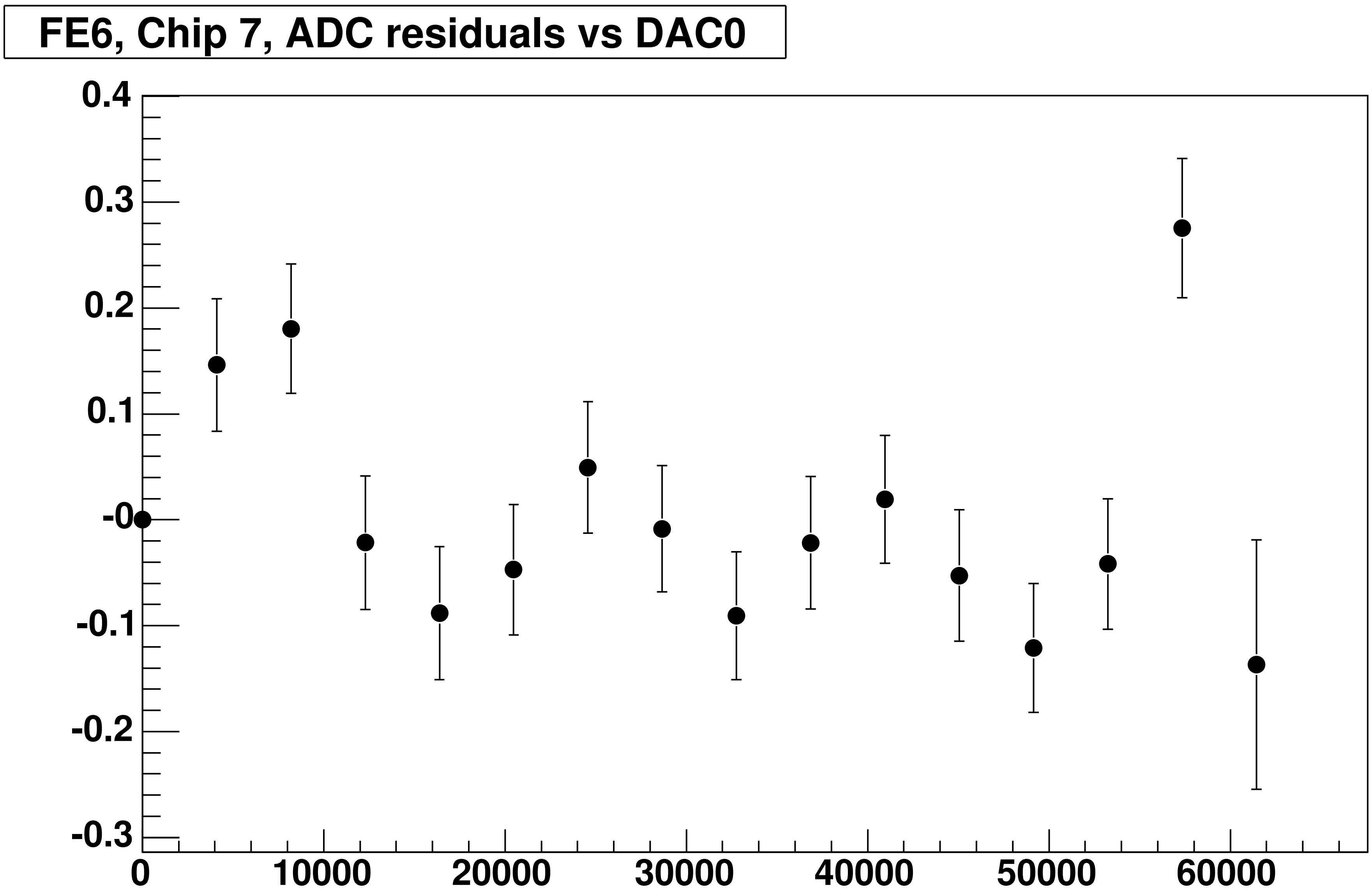

FE6, Chip 6, ADC mean vs DAC1
χ^2 / ndf 2128 / 11
p0 44.23 ± 0.04187
p1 0.4516 ± 1.348e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

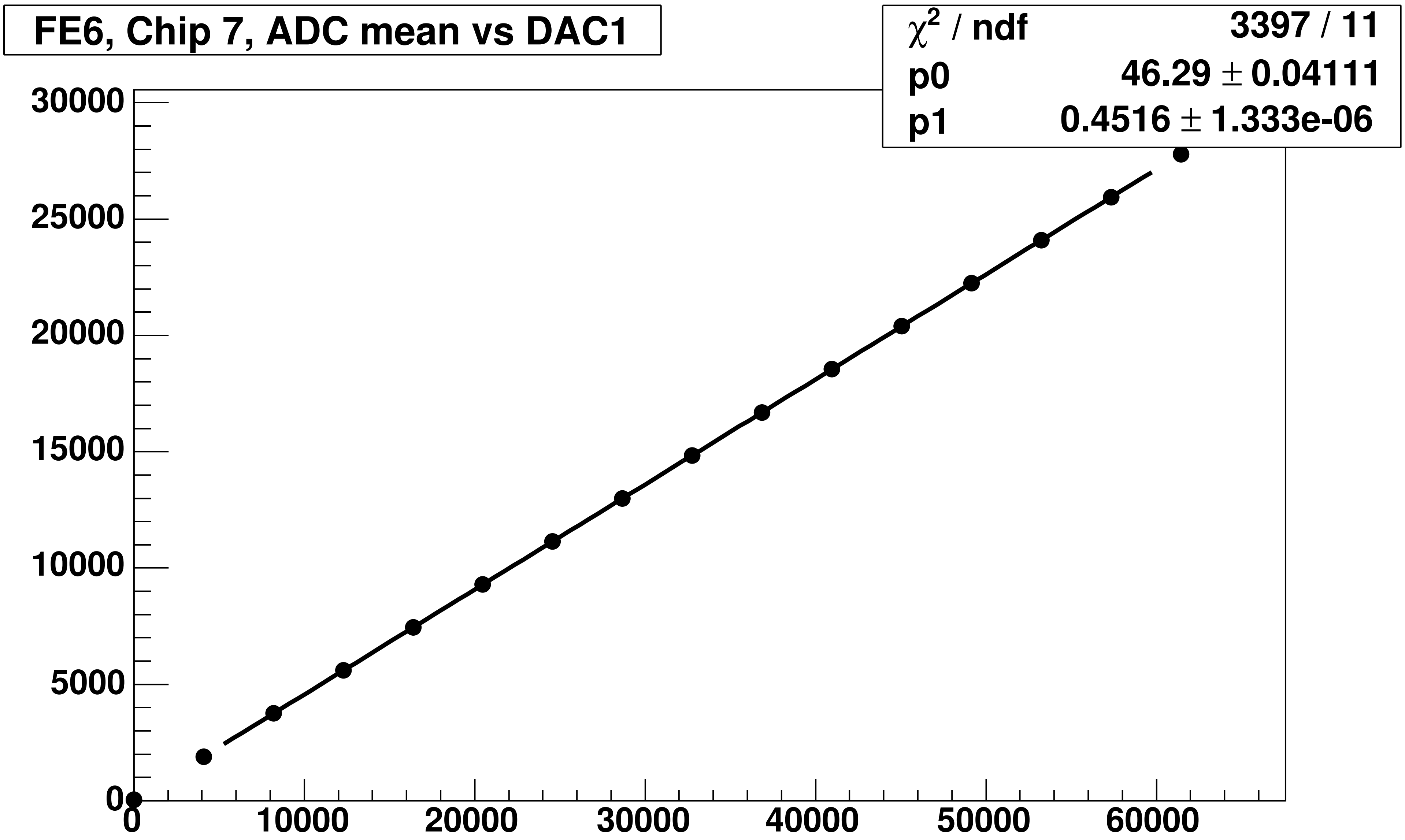

FE6, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

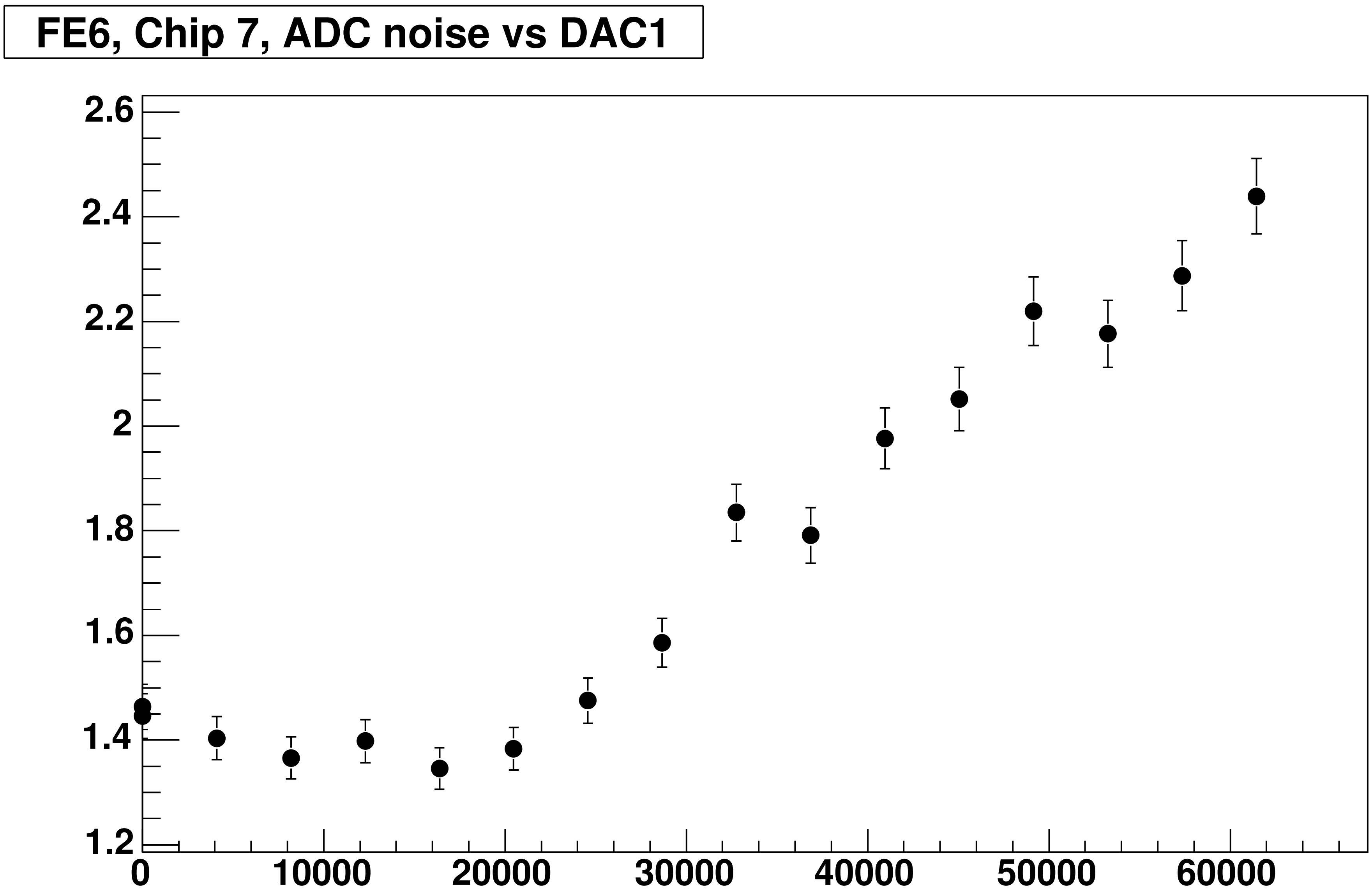

FE6, Chip 7, ADC mean vs DAC0
χ^2 / ndf 37.28 / 11
p0 43.83 ± 0.04069
p1 6.084e-06 ± 1.13e-06
44.5
44.4
44.3
44.2
44.1
44
43.9
43.8
0
10000
20000
30000
40000
50000
60000

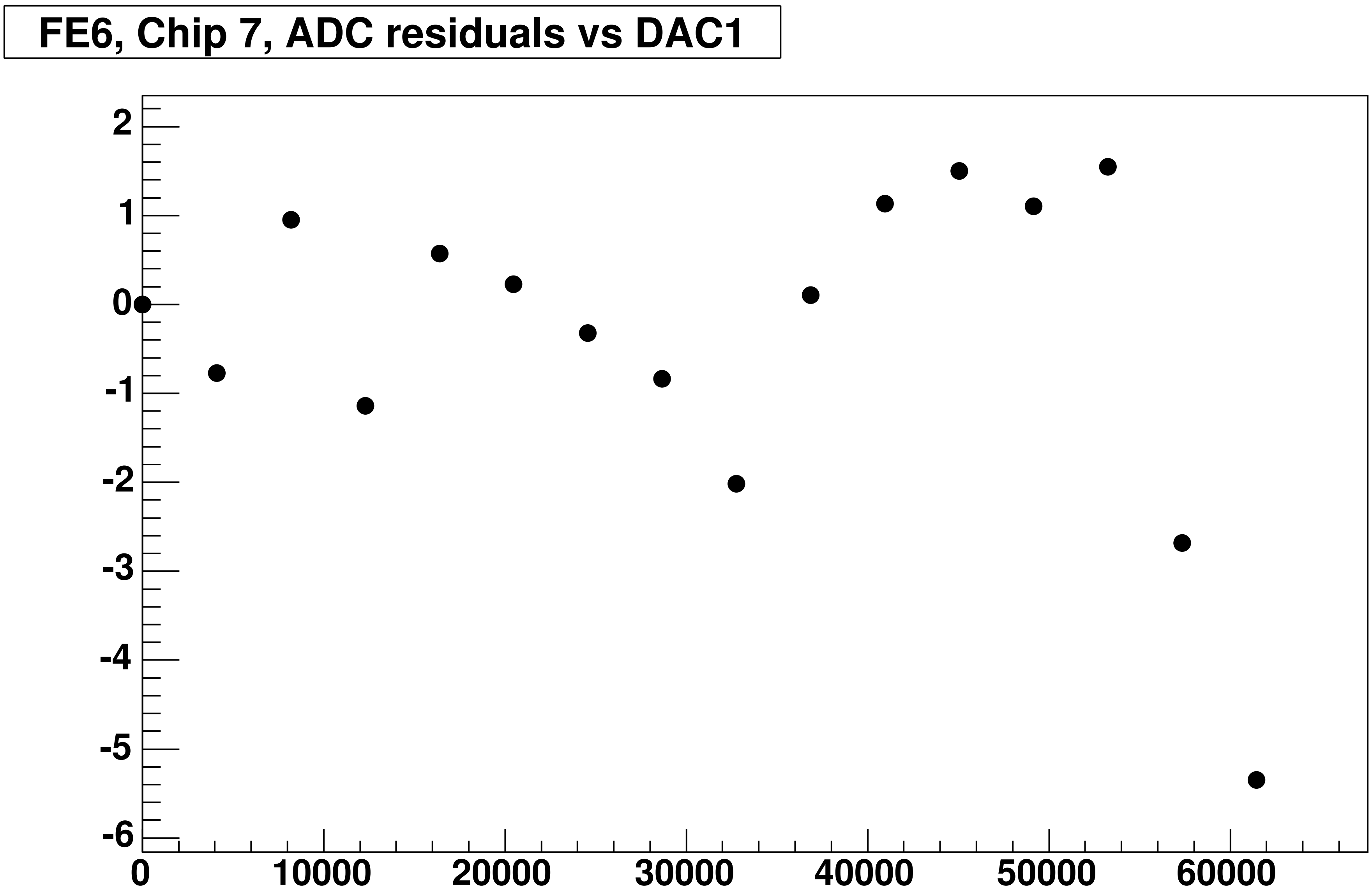

FE6, Chip 7, ADC noise vs DAC0
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

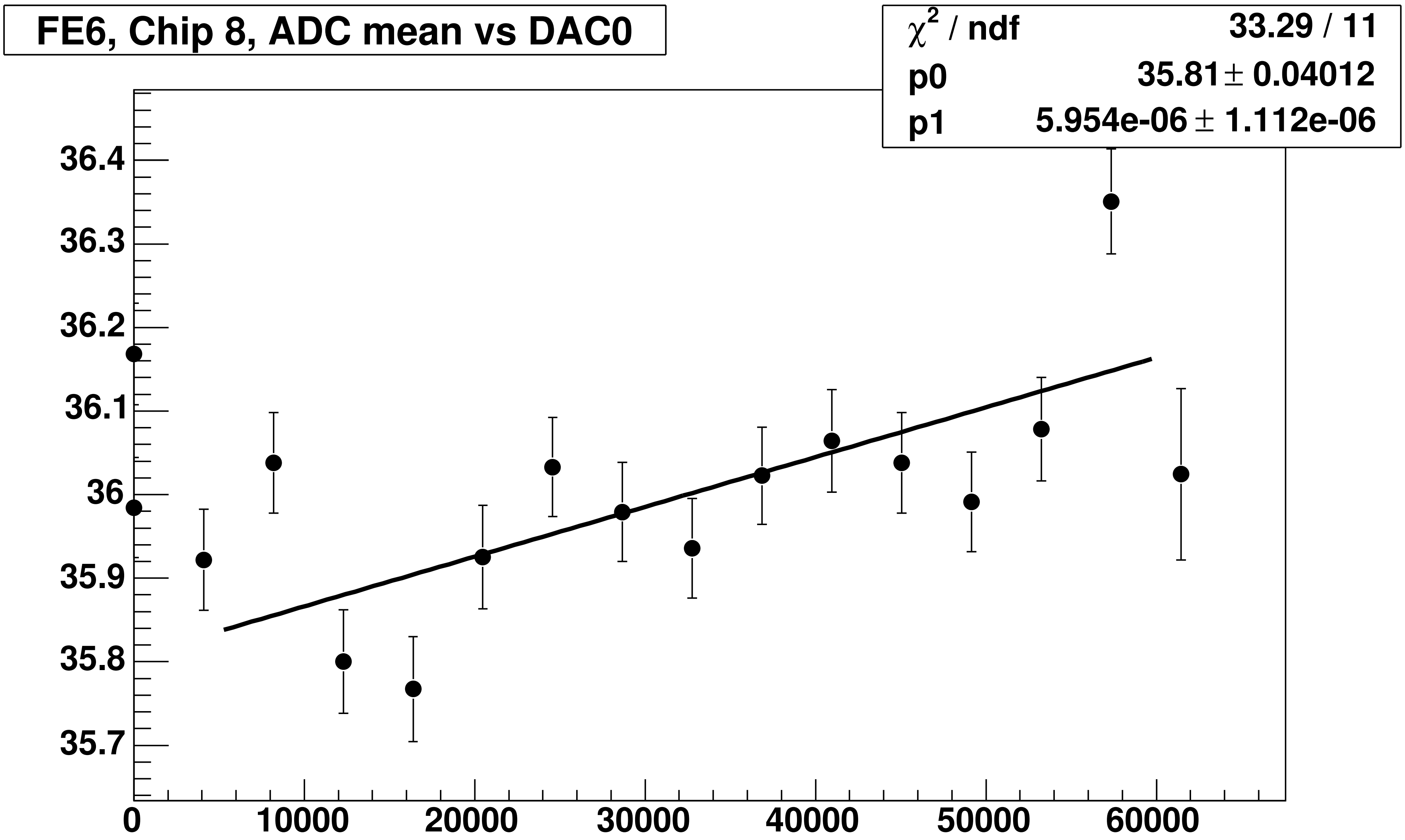


FE6, Chip 7, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

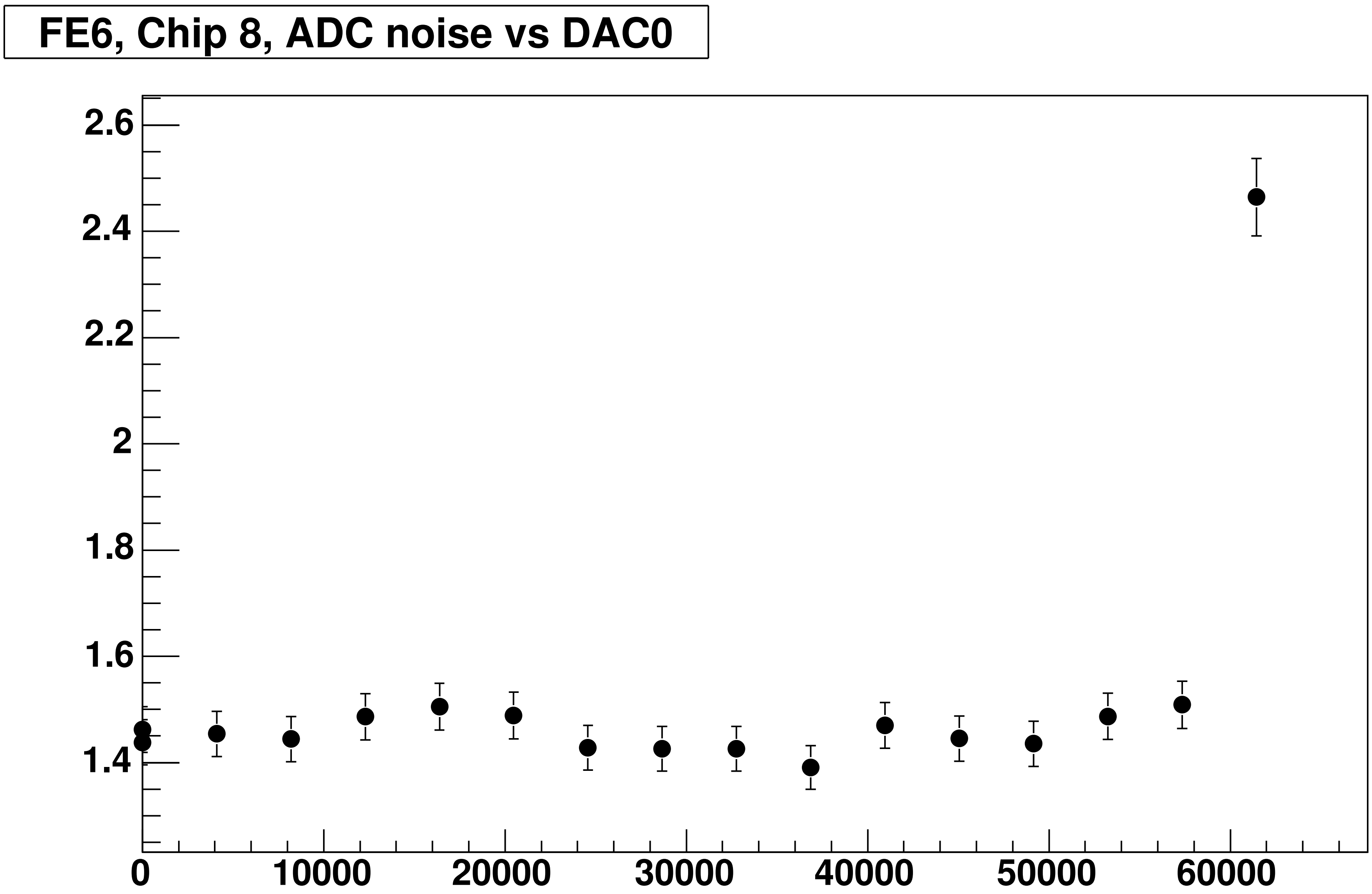

FE6, Chip 7, ADC mean vs DAC1
χ^2 / ndf 3397 / 11
p0 46.29 ± 0.04111
p1 0.4516 ± 1.333e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

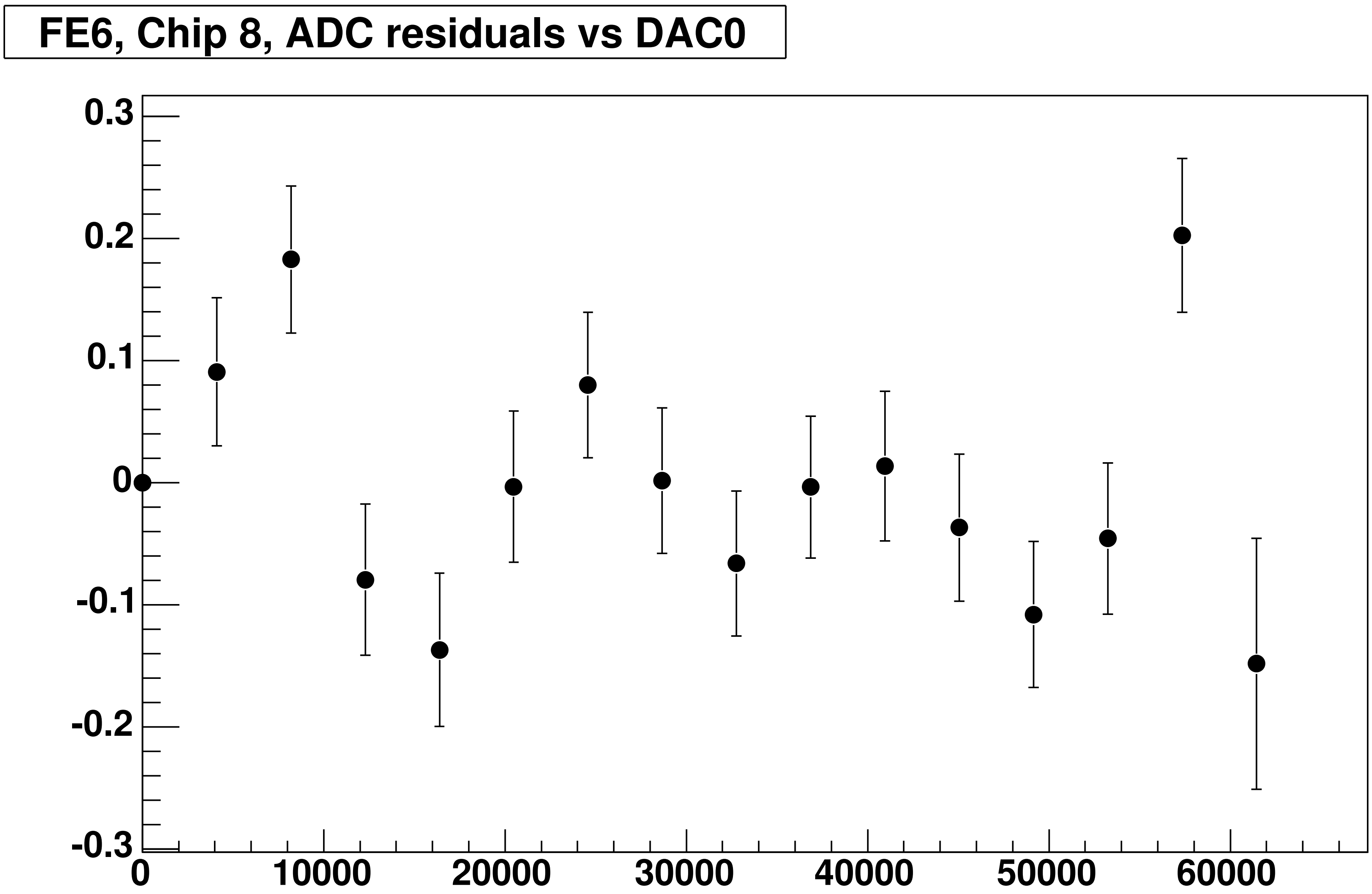

FE6, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

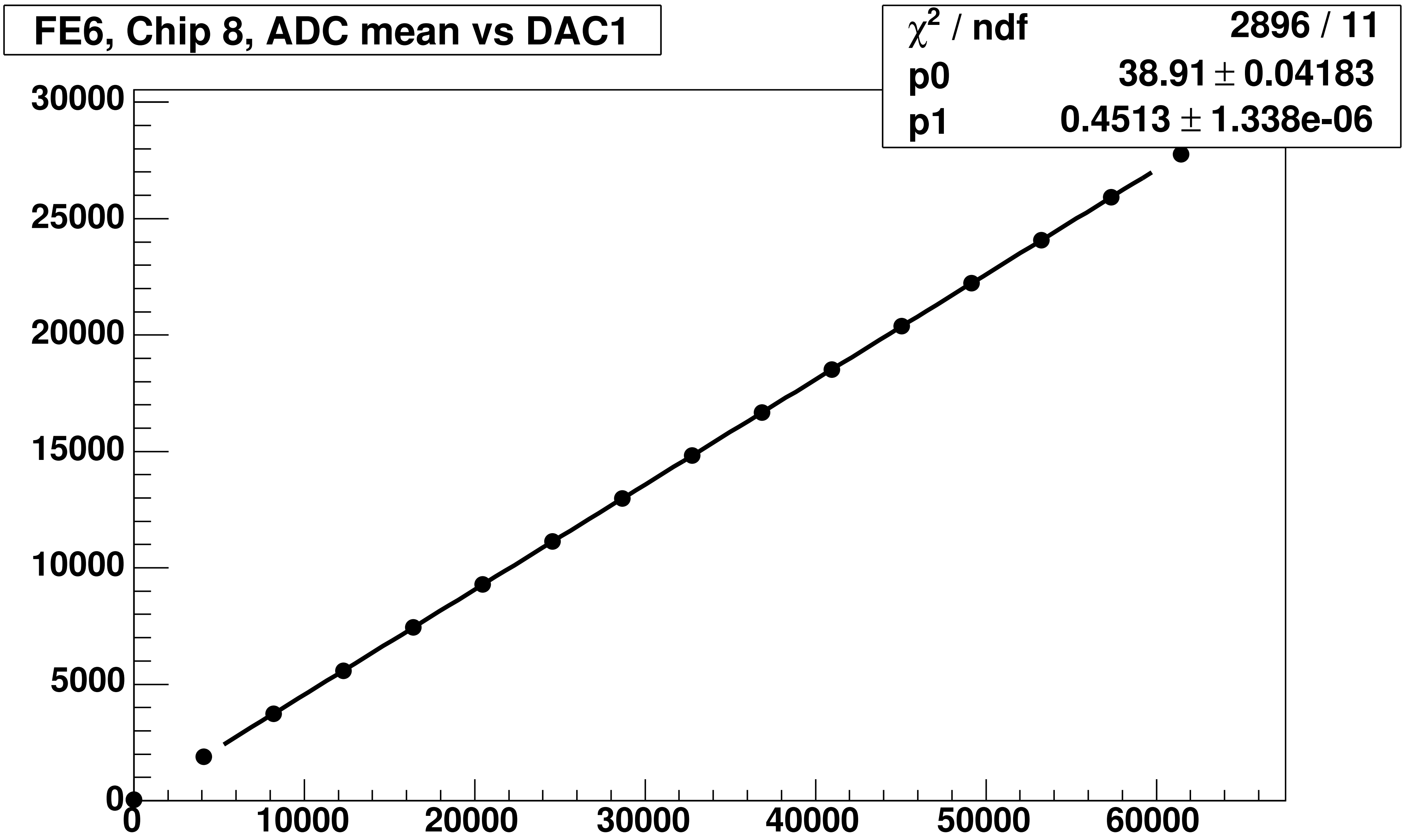


FE6, Chip 8, ADC mean vs DAC0
χ^2 / ndf 33.29 / 11
p0 35.81 ± 0.04012
p1 5.954e-06 ± 1.112e-06
36.4
36.3
36.2
36.1
36
35.9
35.8
35.7
0
10000
20000
30000
40000
50000
60000

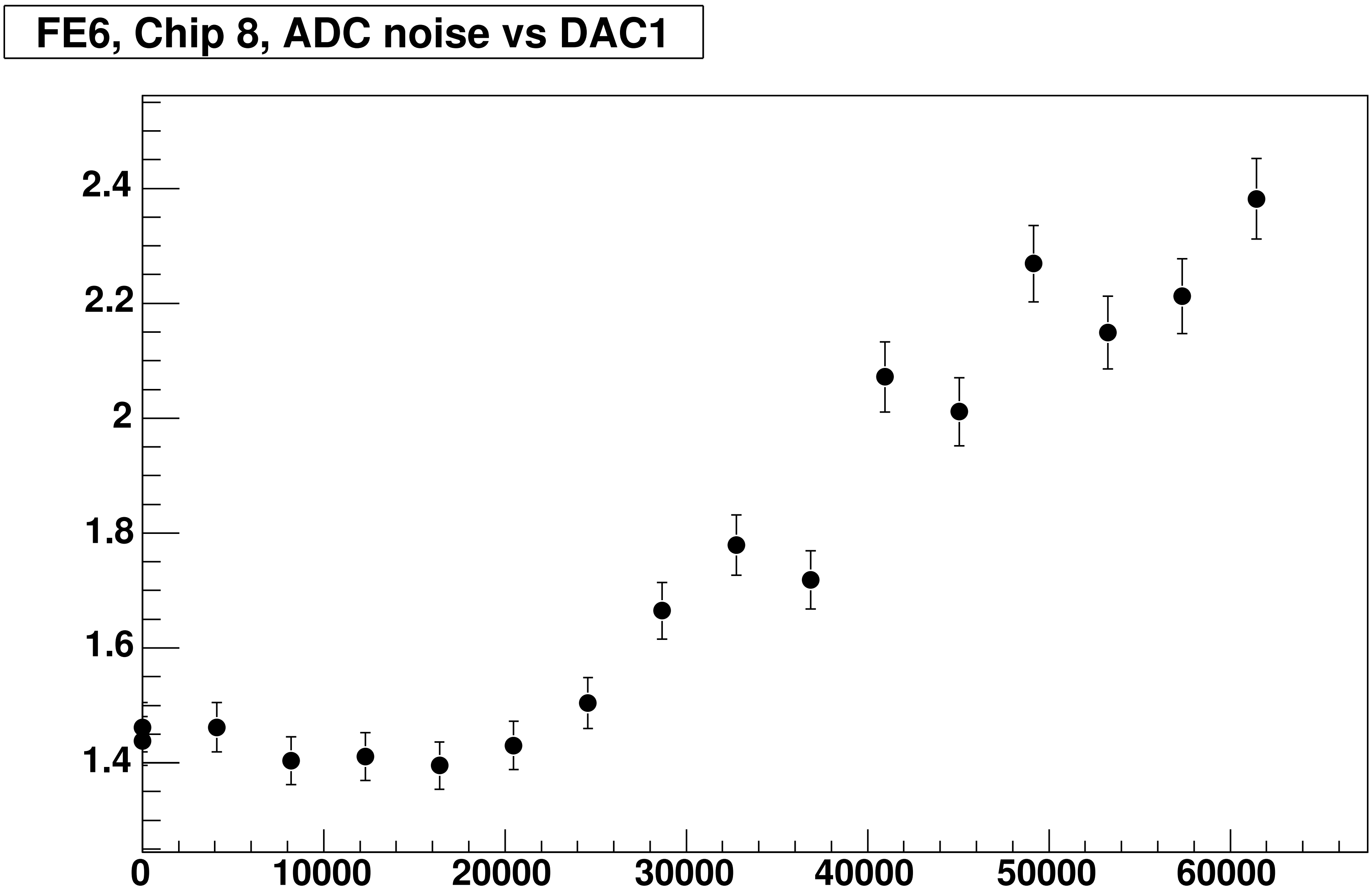

FE6, Chip 8, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

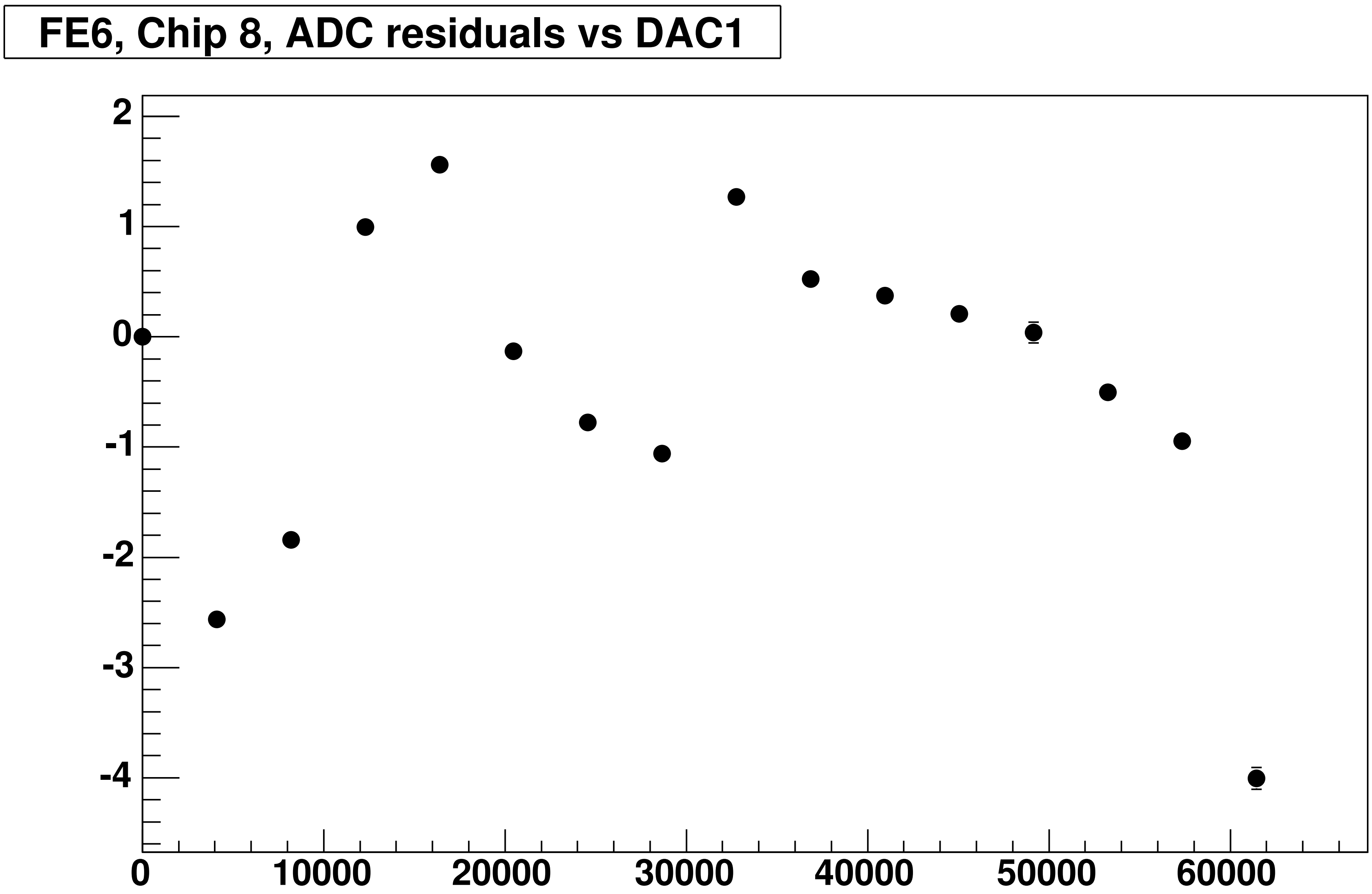


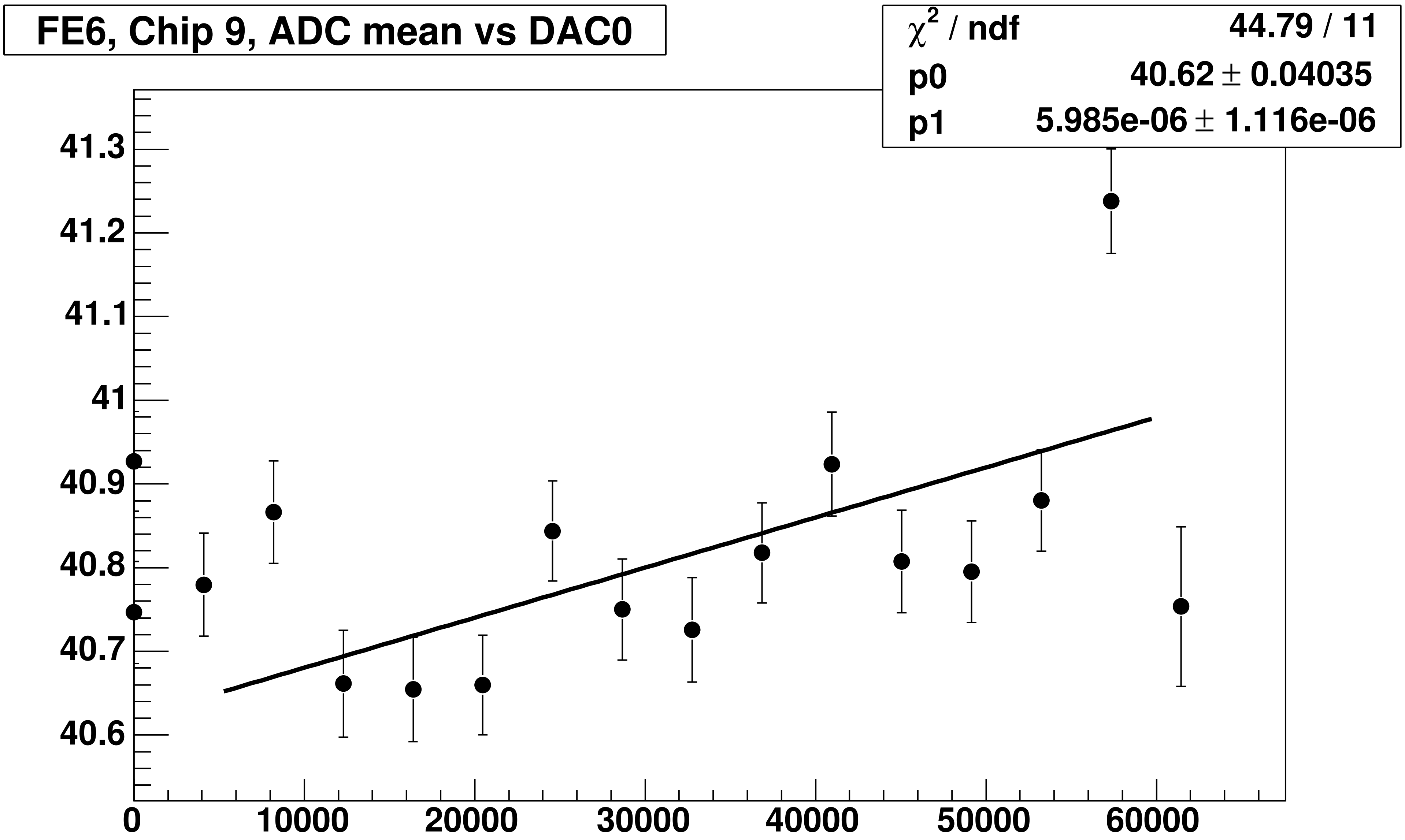
FE6, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



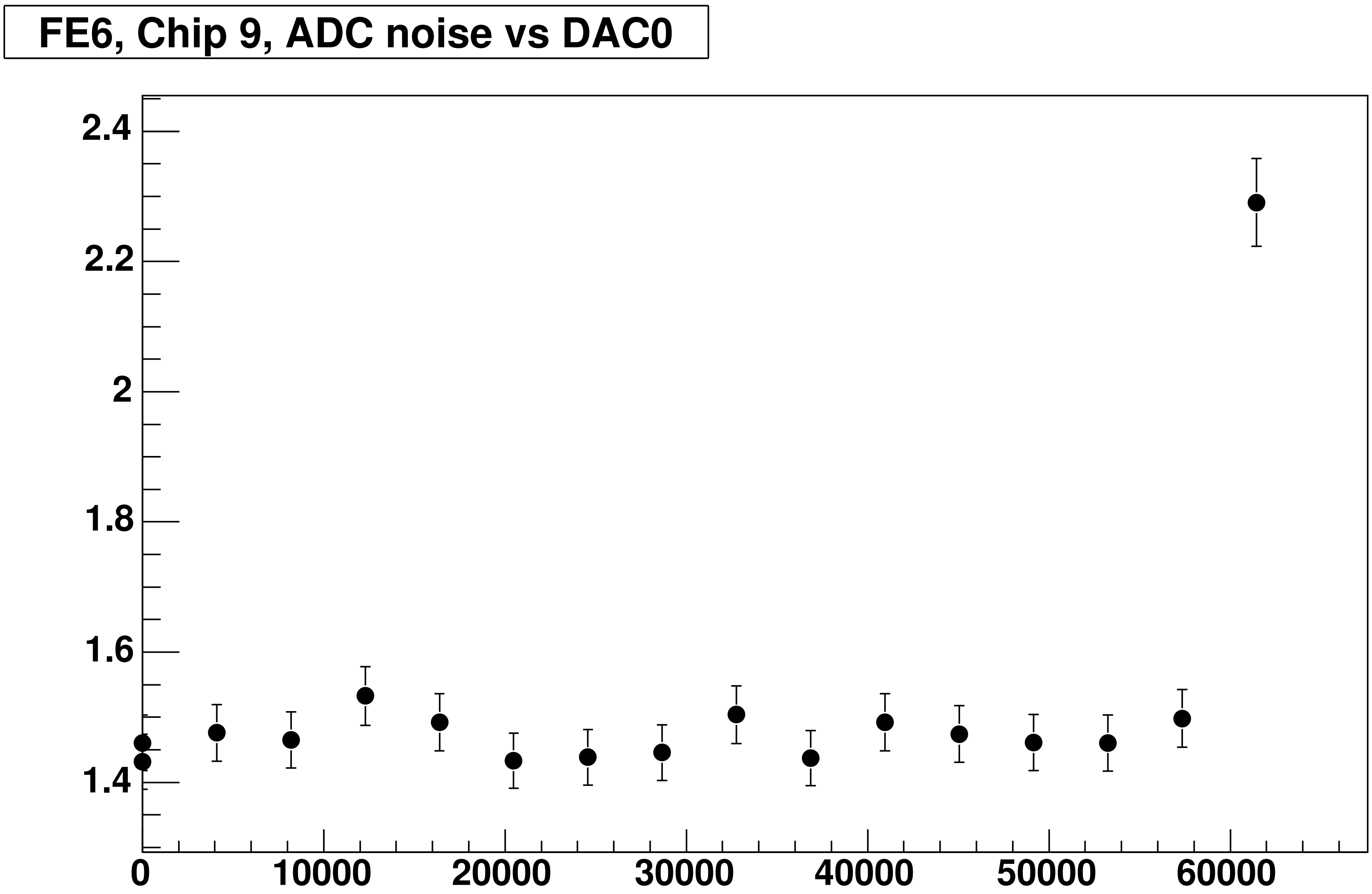
FE6, Chip 8, ADC mean vs DAC1
χ^2 / ndf 2896 / 11
p0 38.91 ± 0.04183
p1 0.4513 ± 1.338e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

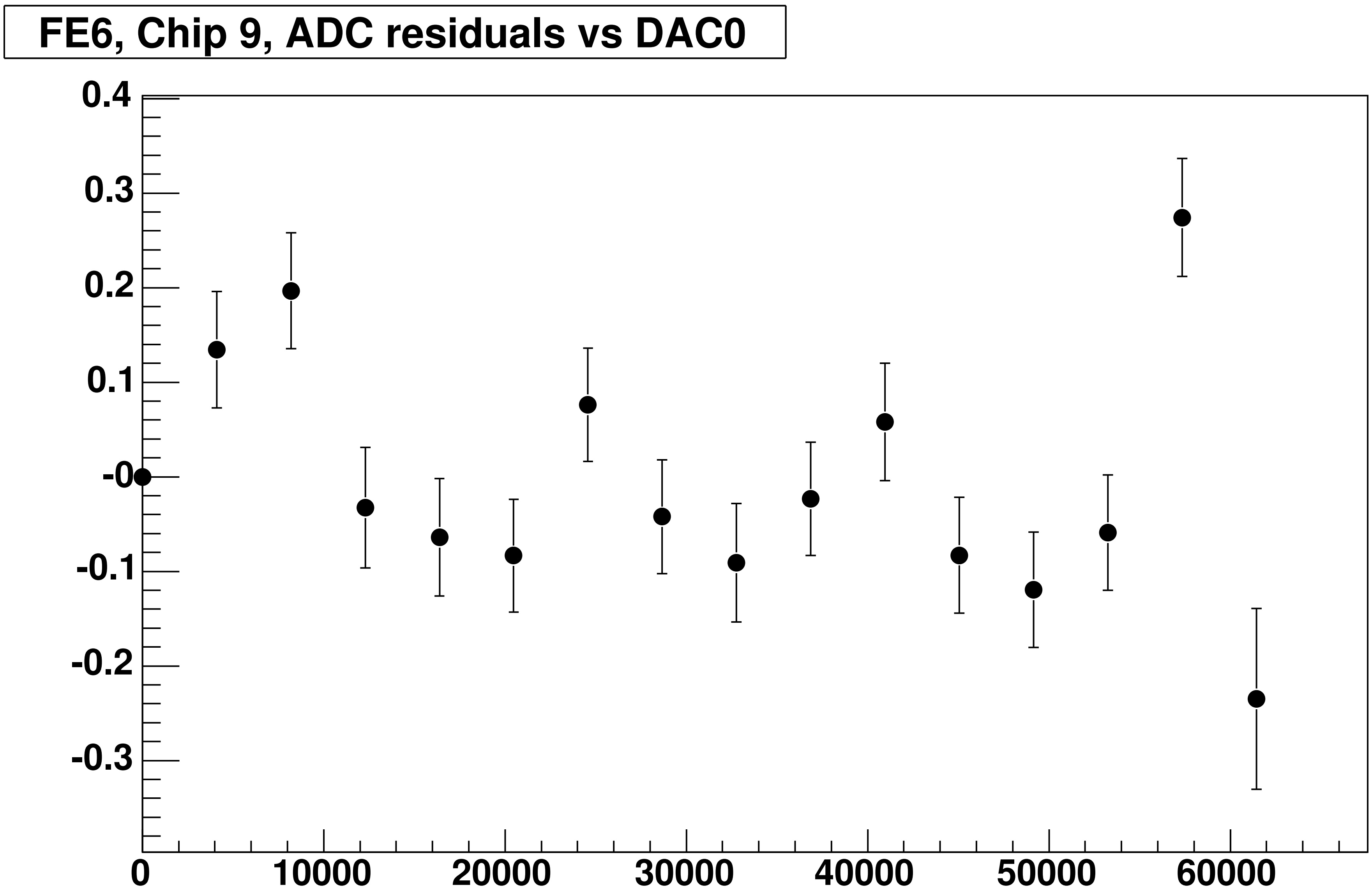

FE6, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

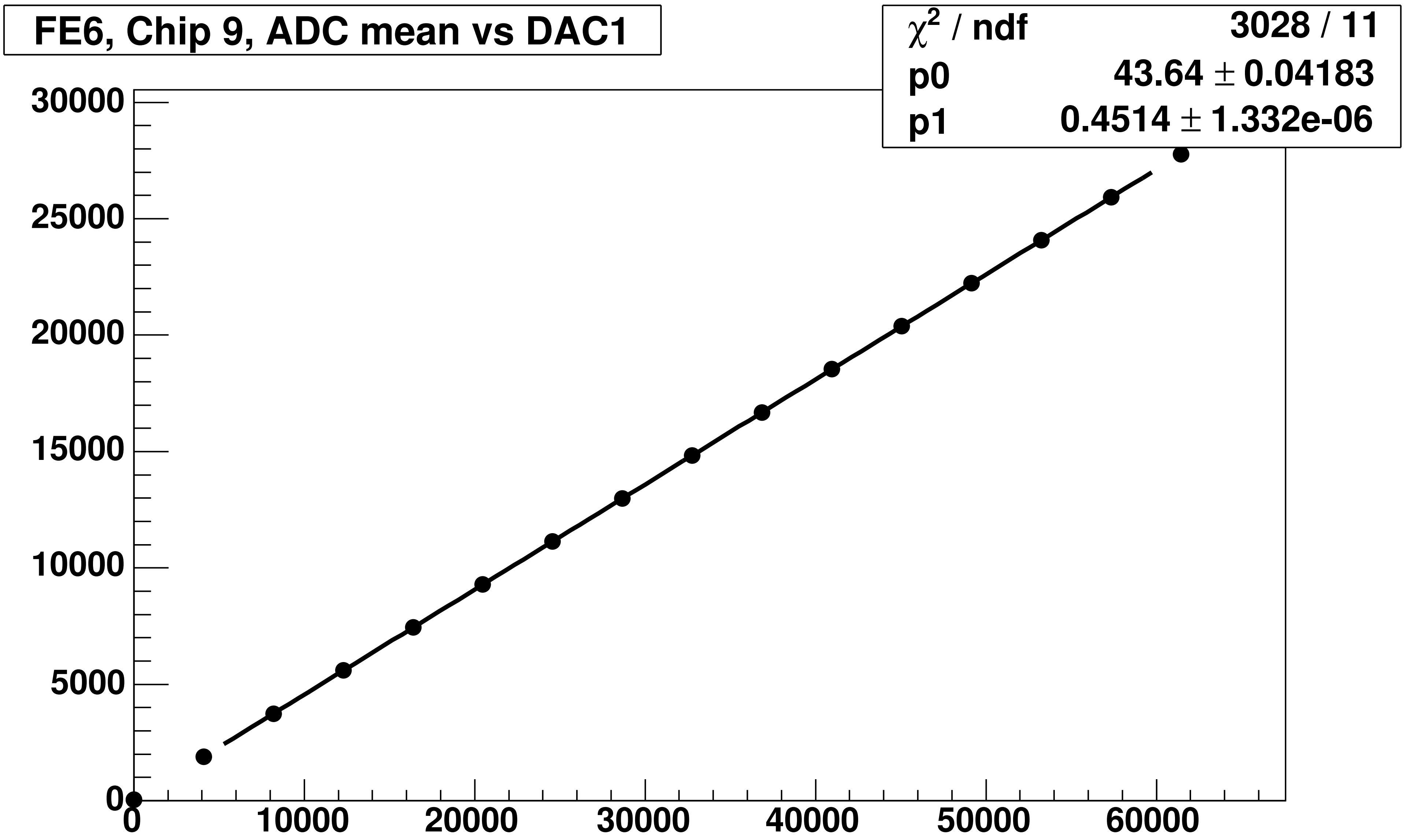

FE6, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

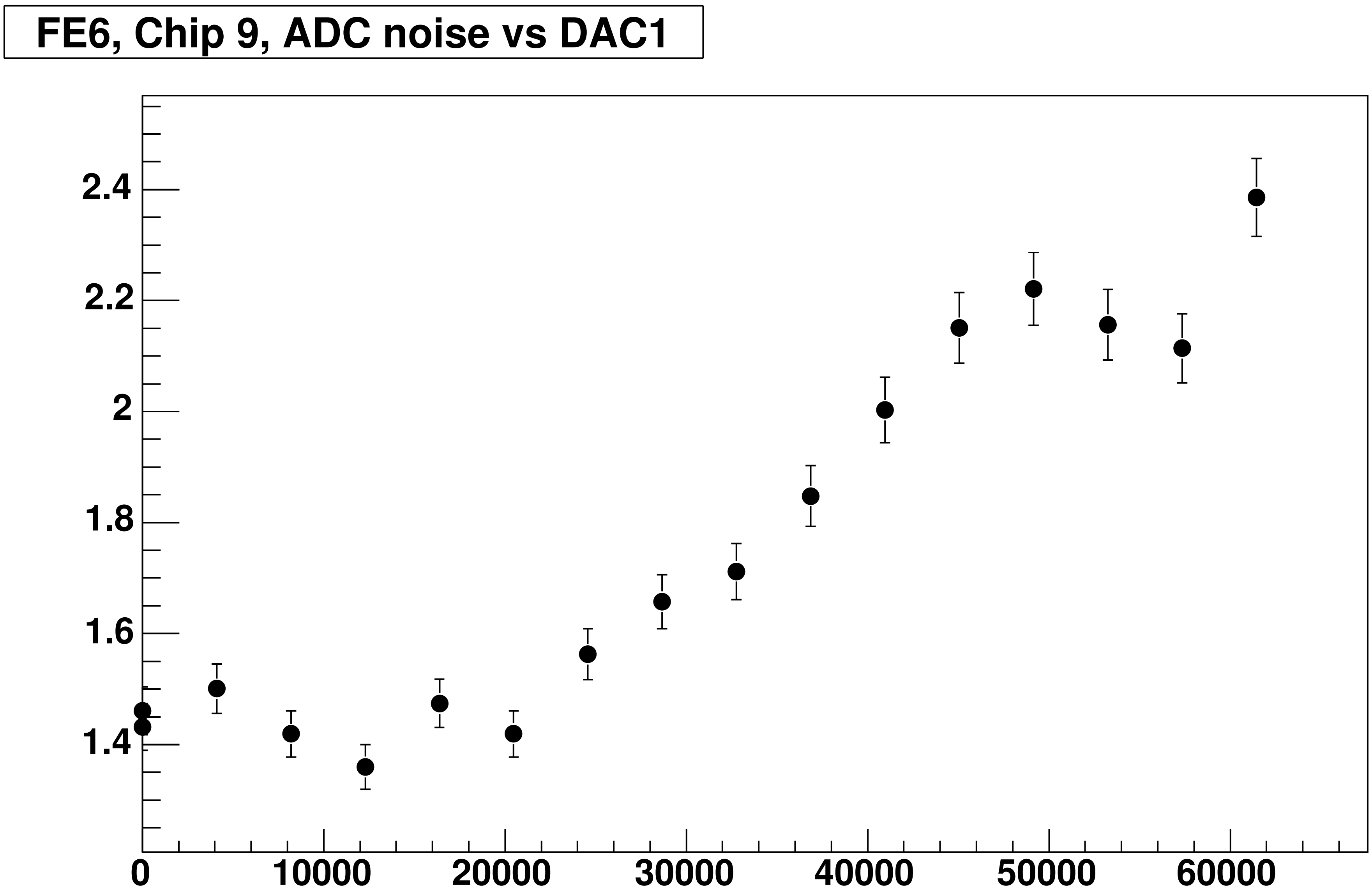


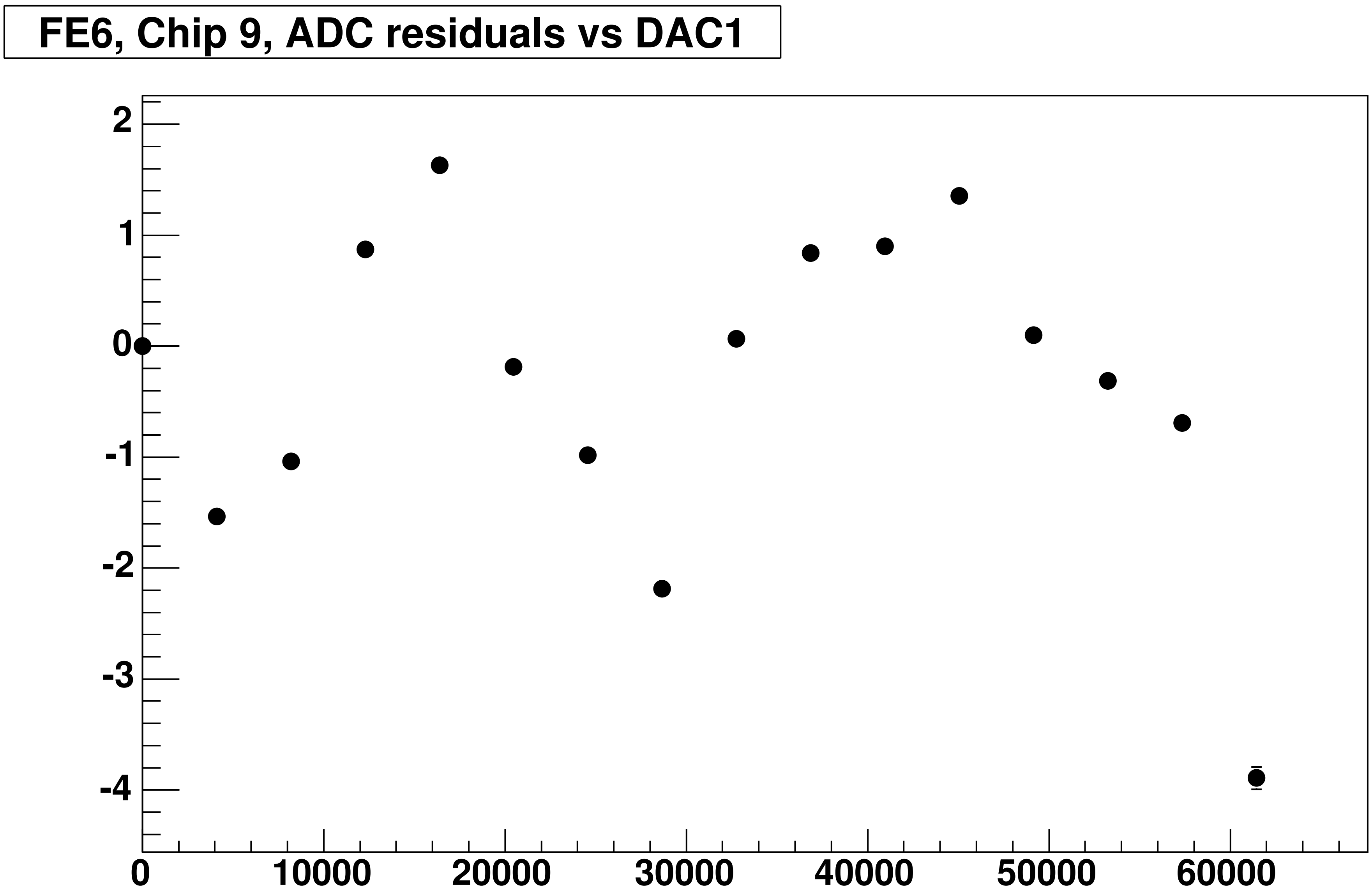
FE6, Chip 9, ADC mean vs DAC0
χ^2 / ndf 44.79 / 11
p0 40.62 ± 0.04035
p1 5.985e-06 ± 1.116e-06
41.3
41.2
41.1
41
40.9
40.8
40.7
40.6
0
10000
20000
30000
40000
50000
60000


FE6, Chip 9, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

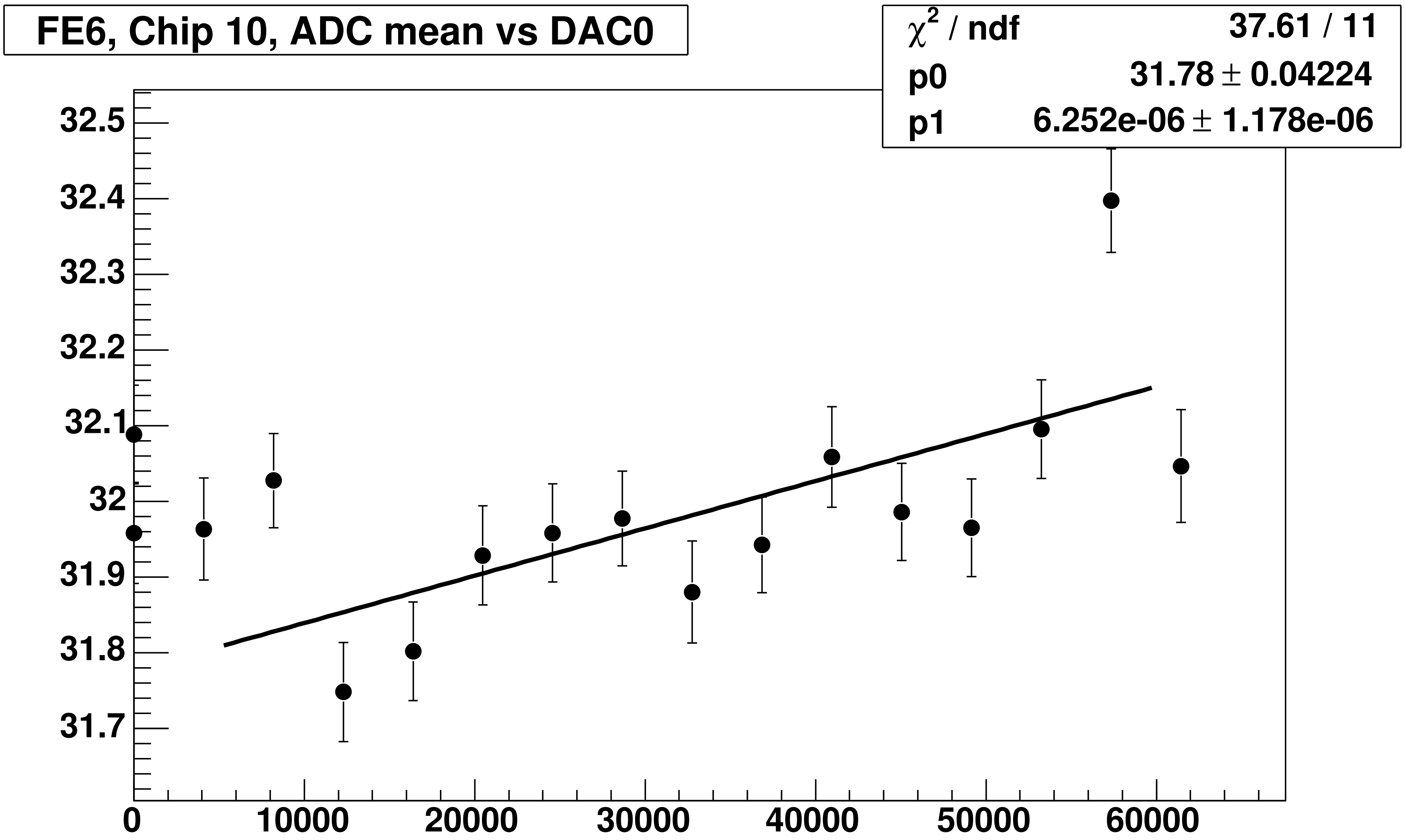

FE6, Chip 9, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

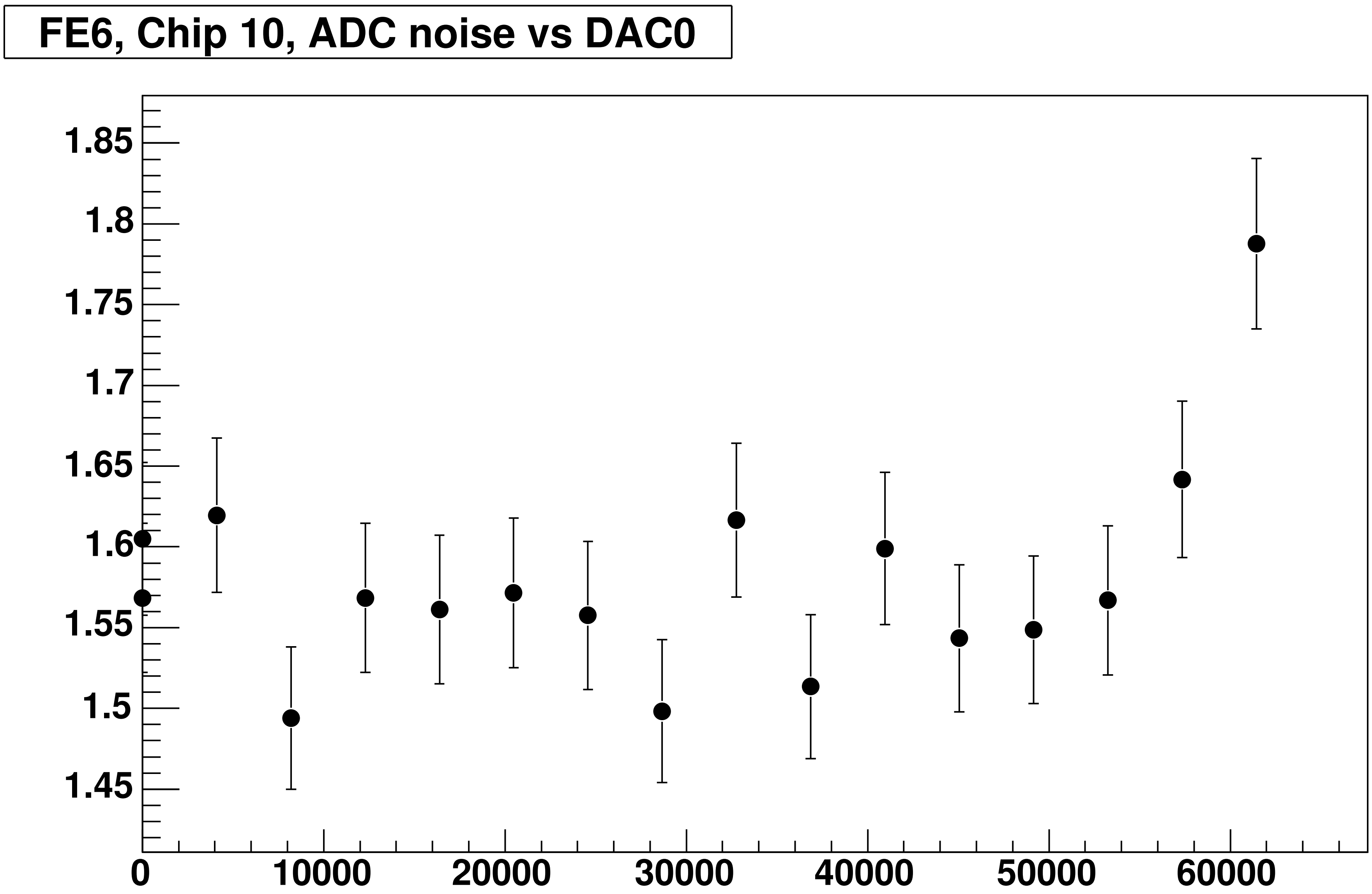

FE6, Chip 9, ADC mean vs DAC1
χ2 / ndf 3028 / 11
p0 43.64 ± 0.04183
p1 0.4514 ± 1.332e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

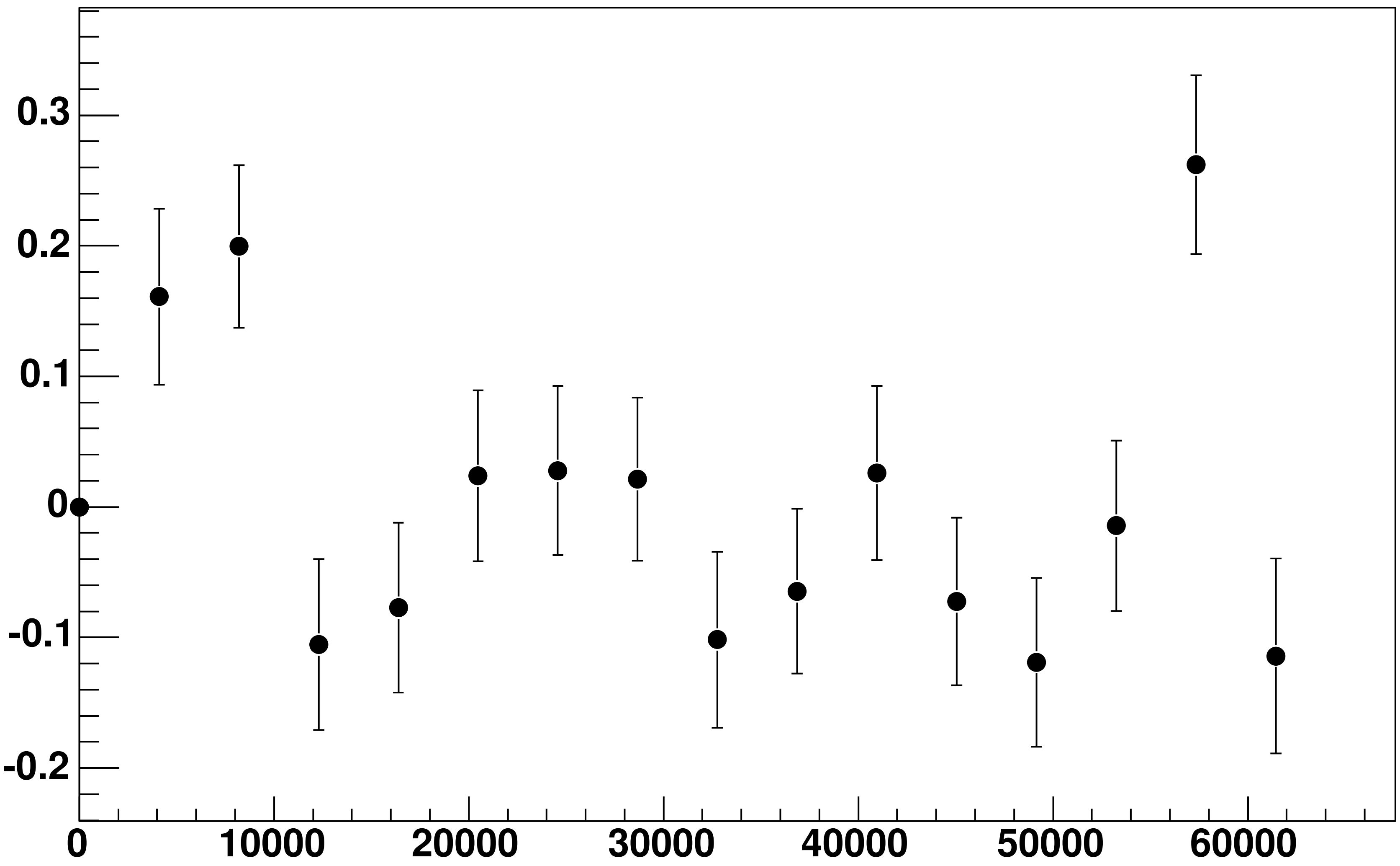


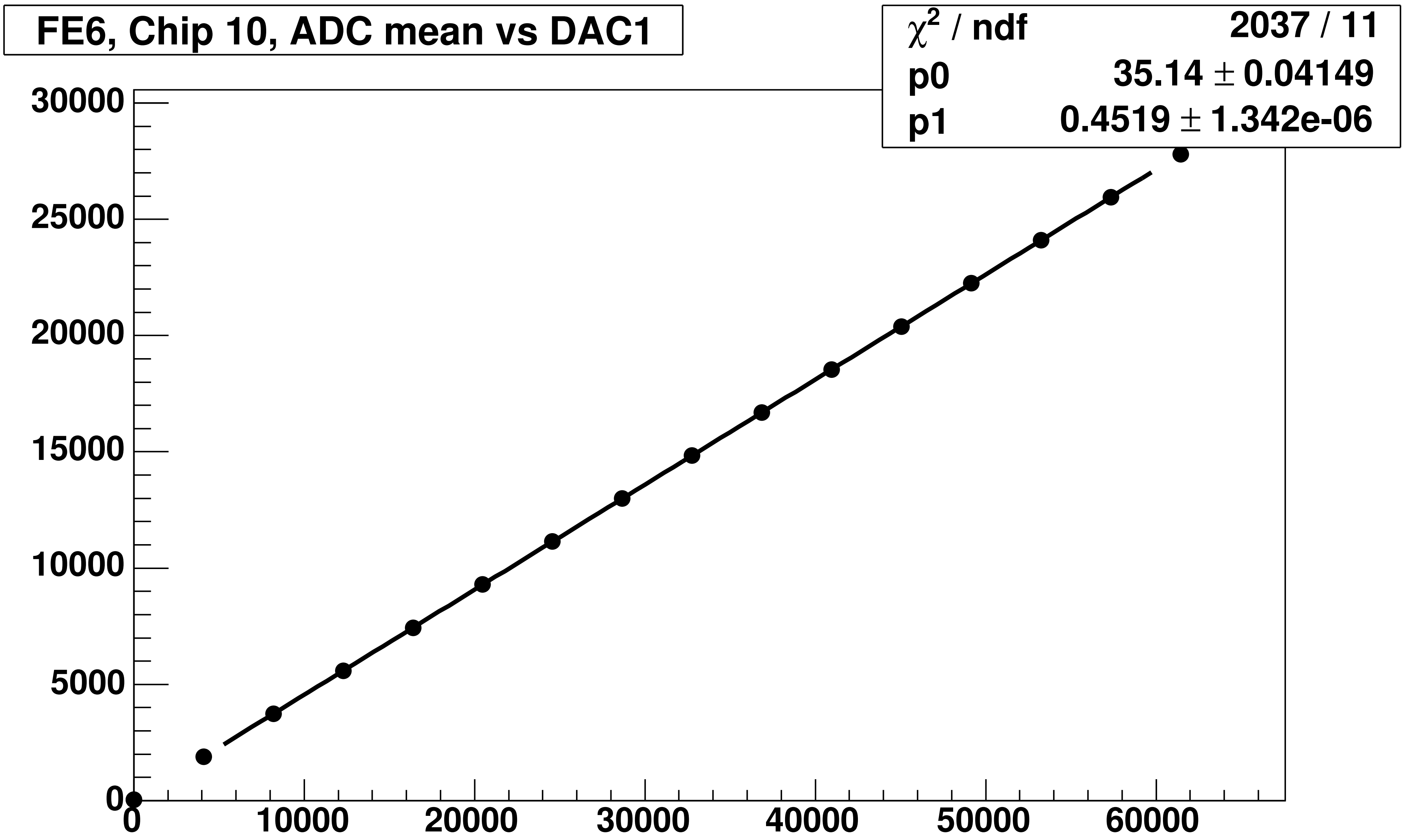
FE6, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

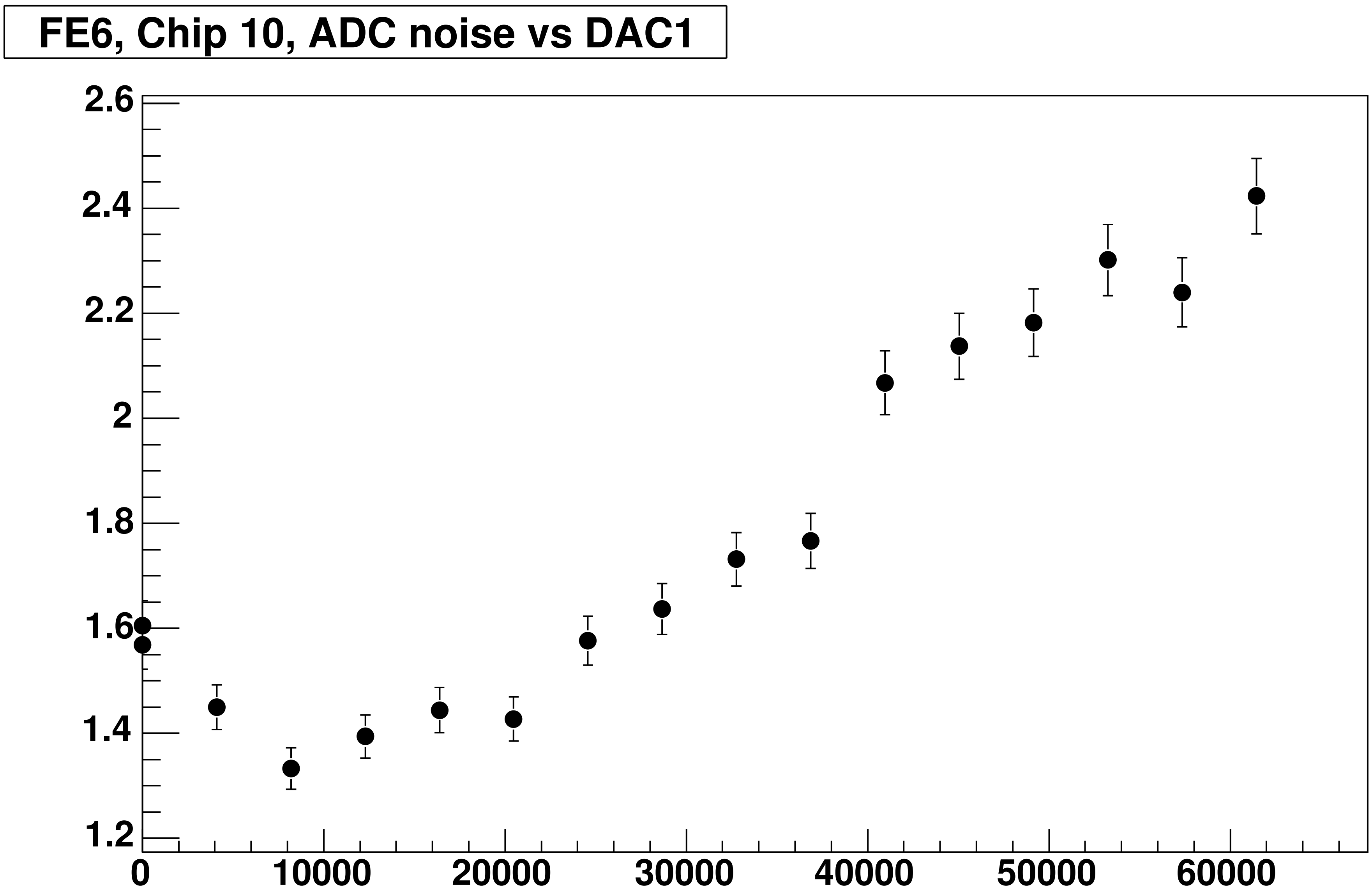

FE6, Chip 10, ADC mean vs DAC0
χ2 / ndf 37.61 / 11
p0 31.78 ± 0.04224
p1 6.252e-06 ± 1.178e-06
32.5
32.4
32.3
32.2
32.1
32
31.9
31.8
31.7
0
10000
20000
30000
40000
50000
60000

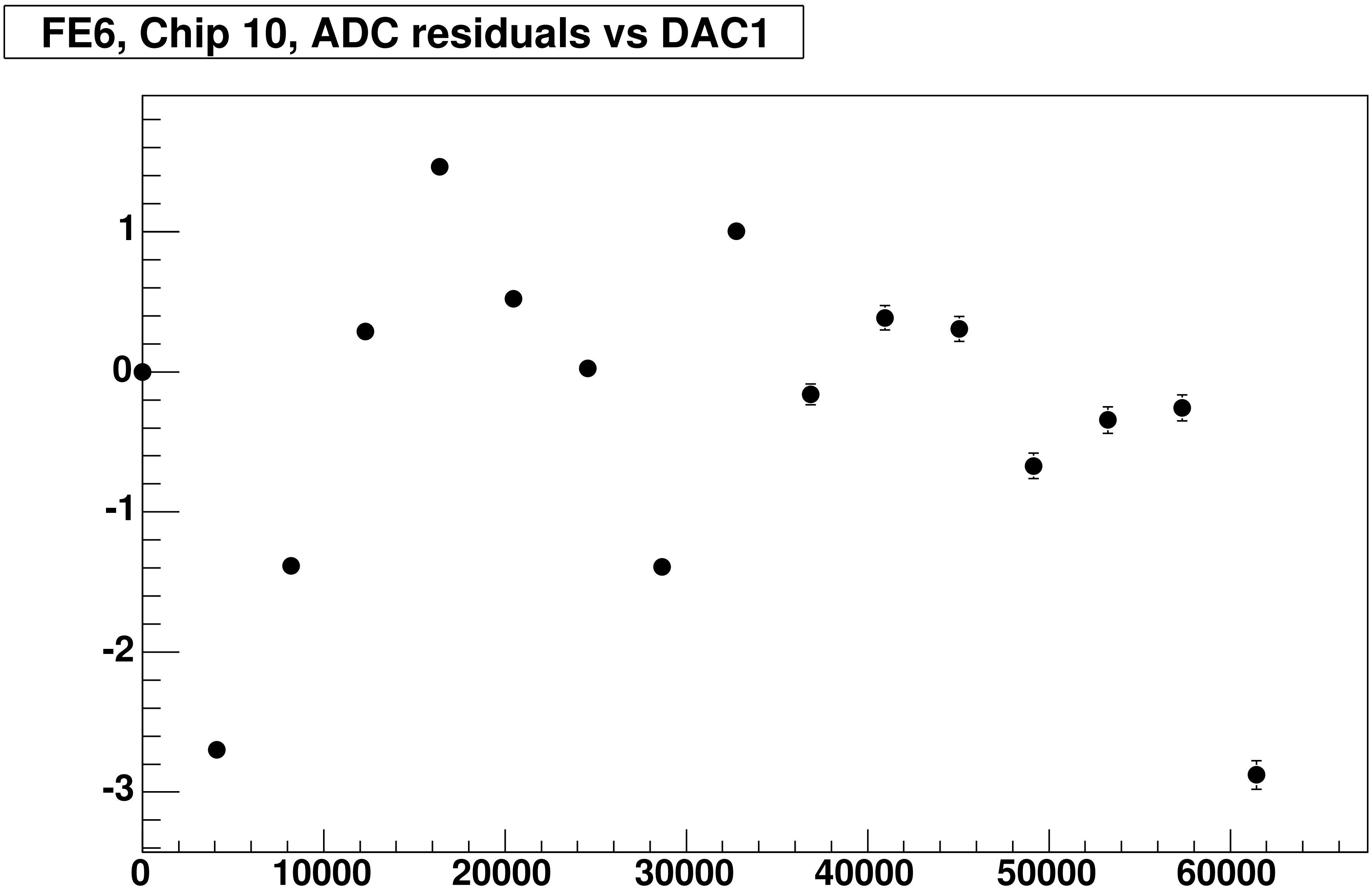

FE6, Chip 10, ADC noise vs DAC0
1.85
1.8
1.75
1.7
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

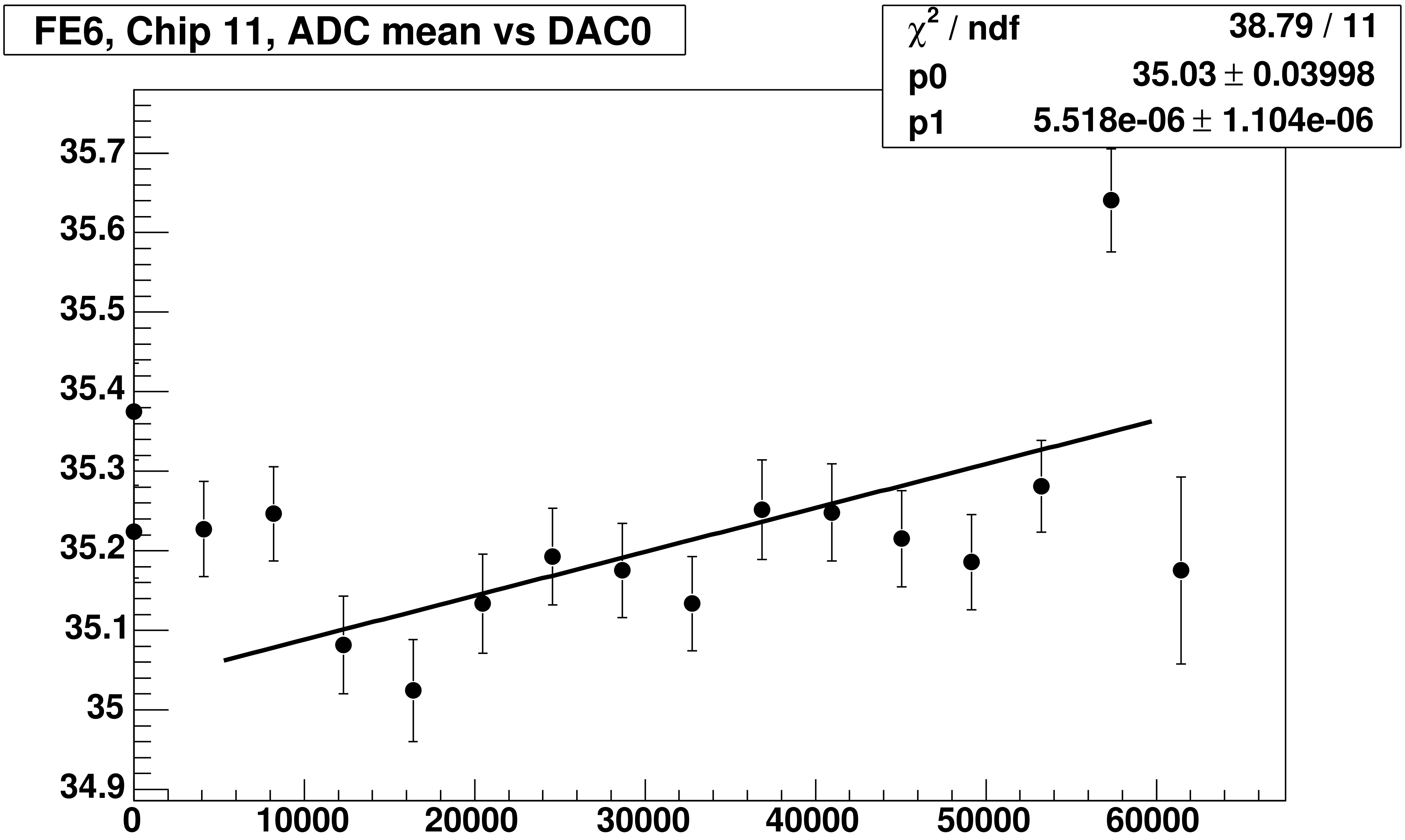
FE6, Chip 10, ADC residuals vs DAC0

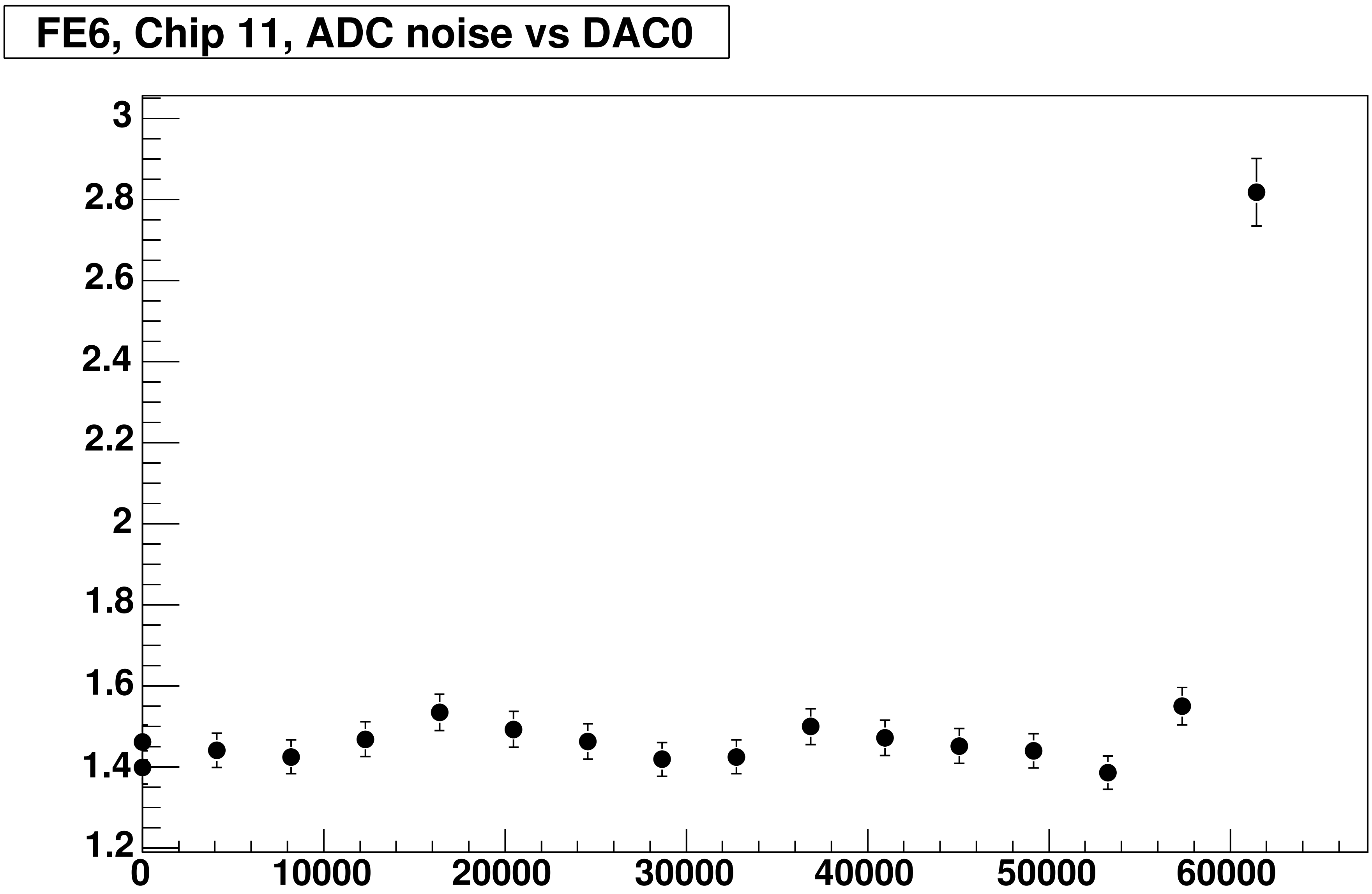


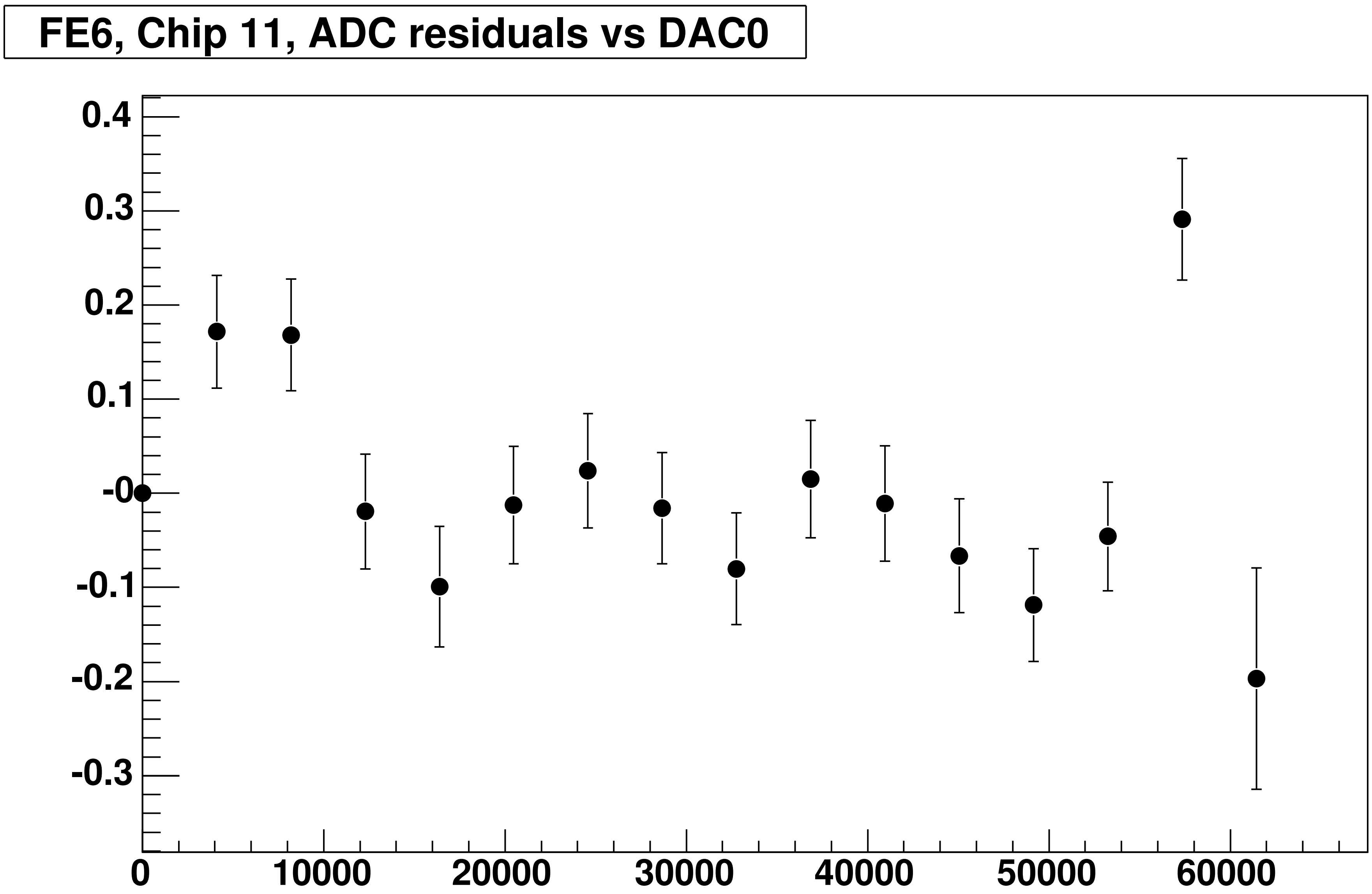

FE6, Chip 10, ADC mean vs DAC1
χ^2 / ndf 2037 / 11
p0 35.14 ± 0.04149
p1 0.4519 ± 1.342e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

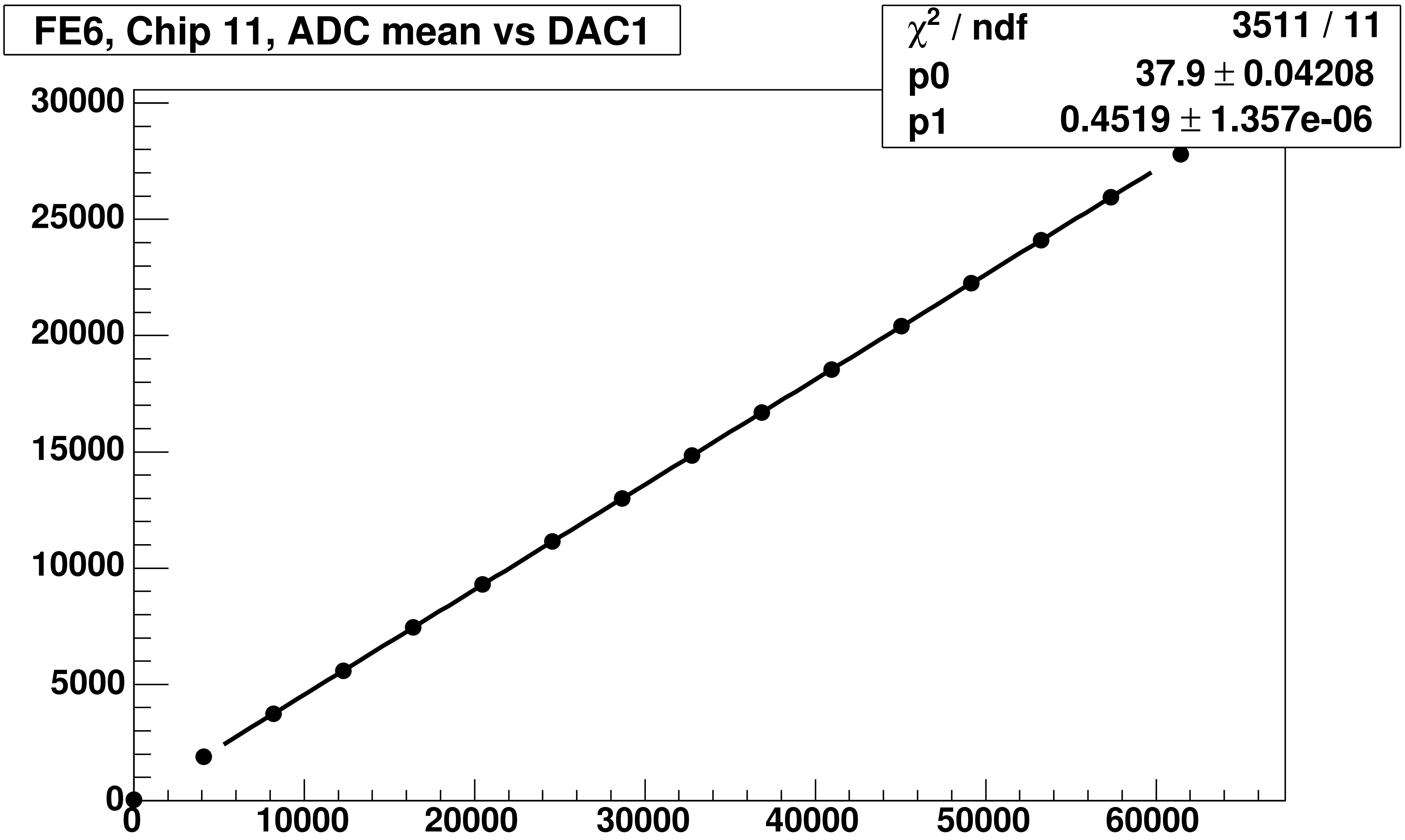

FE6, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

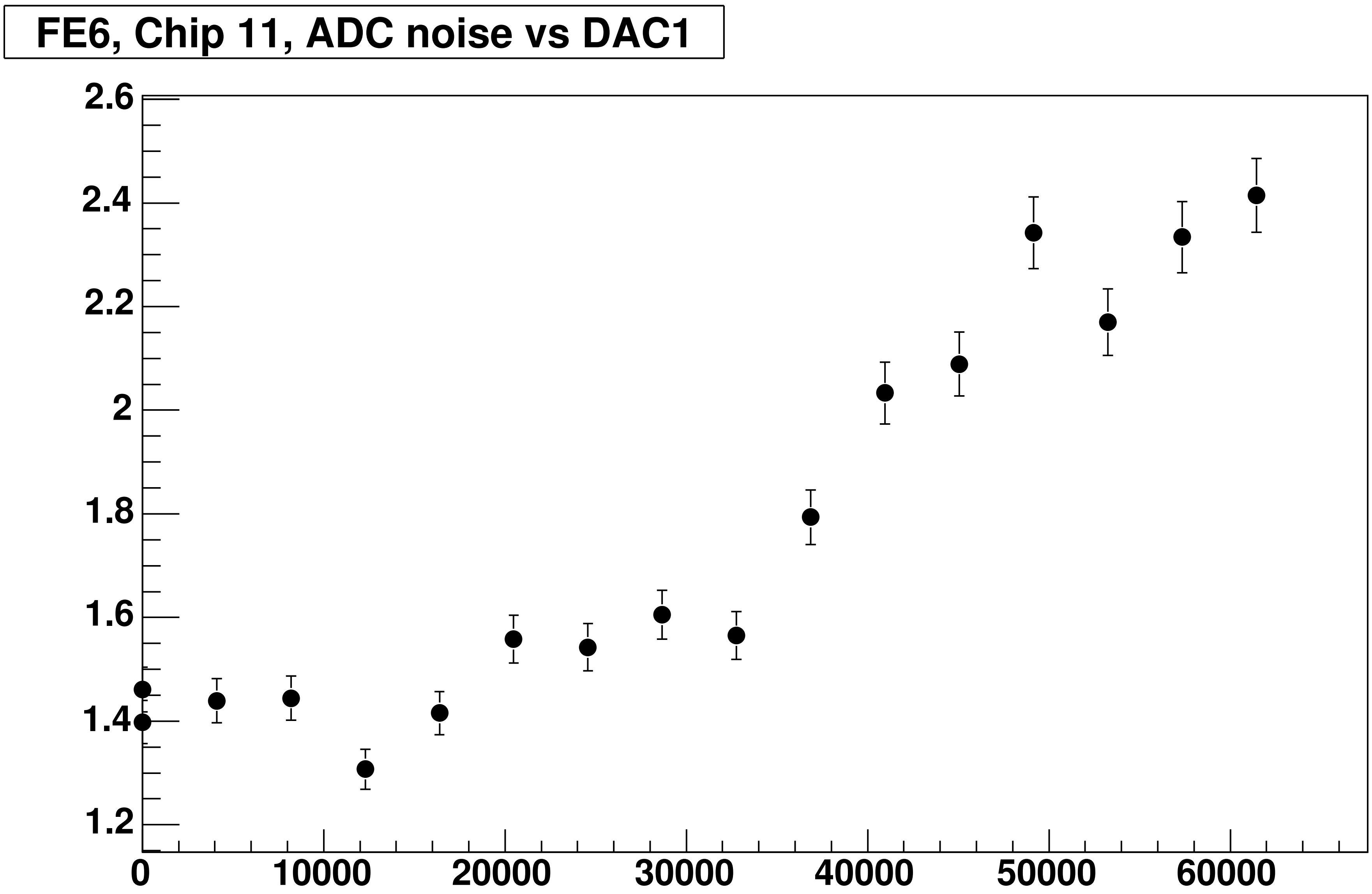

FE6, Chip 11, ADC mean vs DAC0
χ² / ndf 38.79 / 11
p0 35.03 ± 0.03998
p1 5.518e-06 ± 1.104e-06
35.7
35.6
35.5
35.4
35.3
35.2
35.1
35
34.9
0
10000
20000
30000
40000
50000
60000


FE6, Chip 11, ADC noise vs DAC0
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

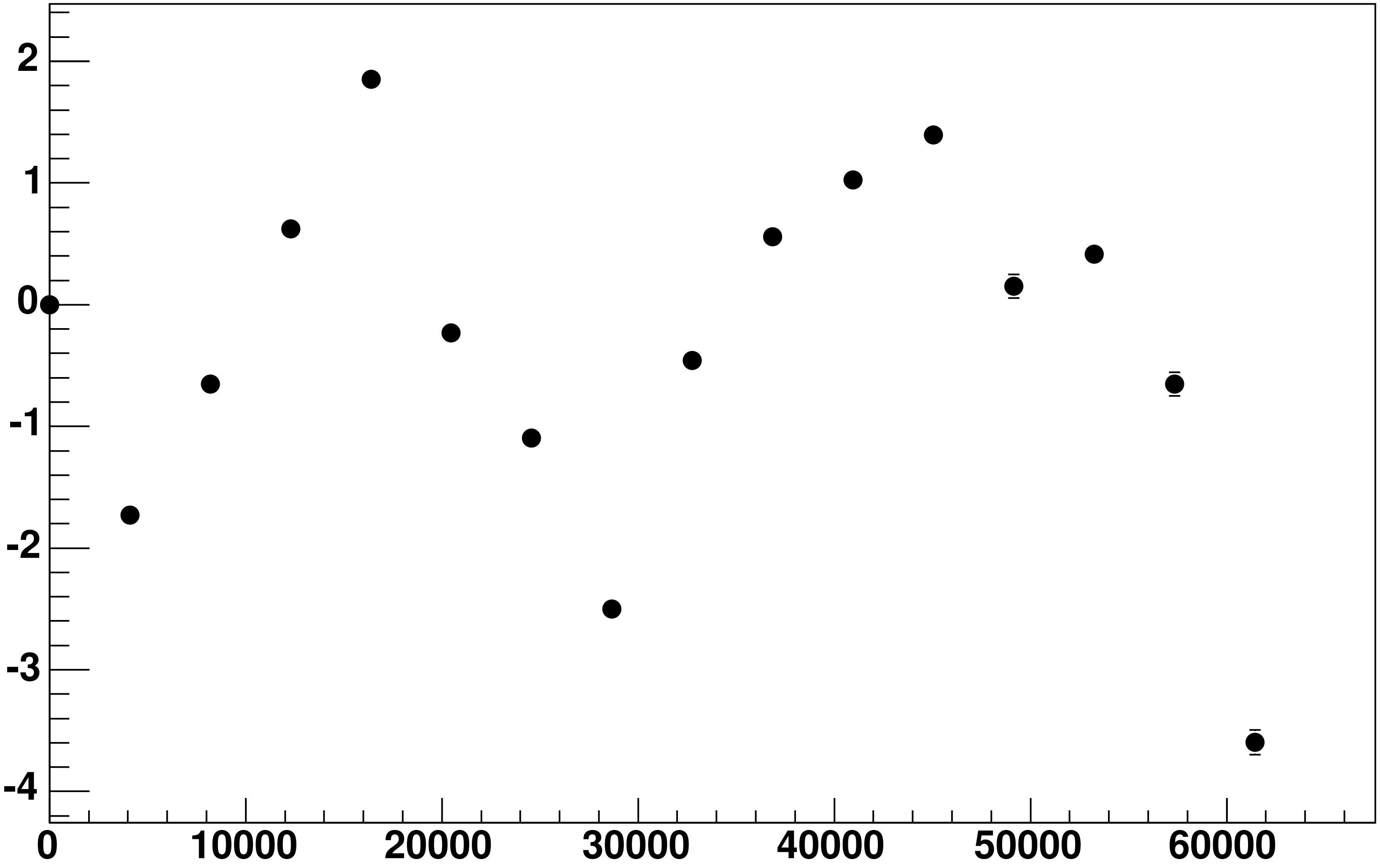

FE6, Chip 11, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

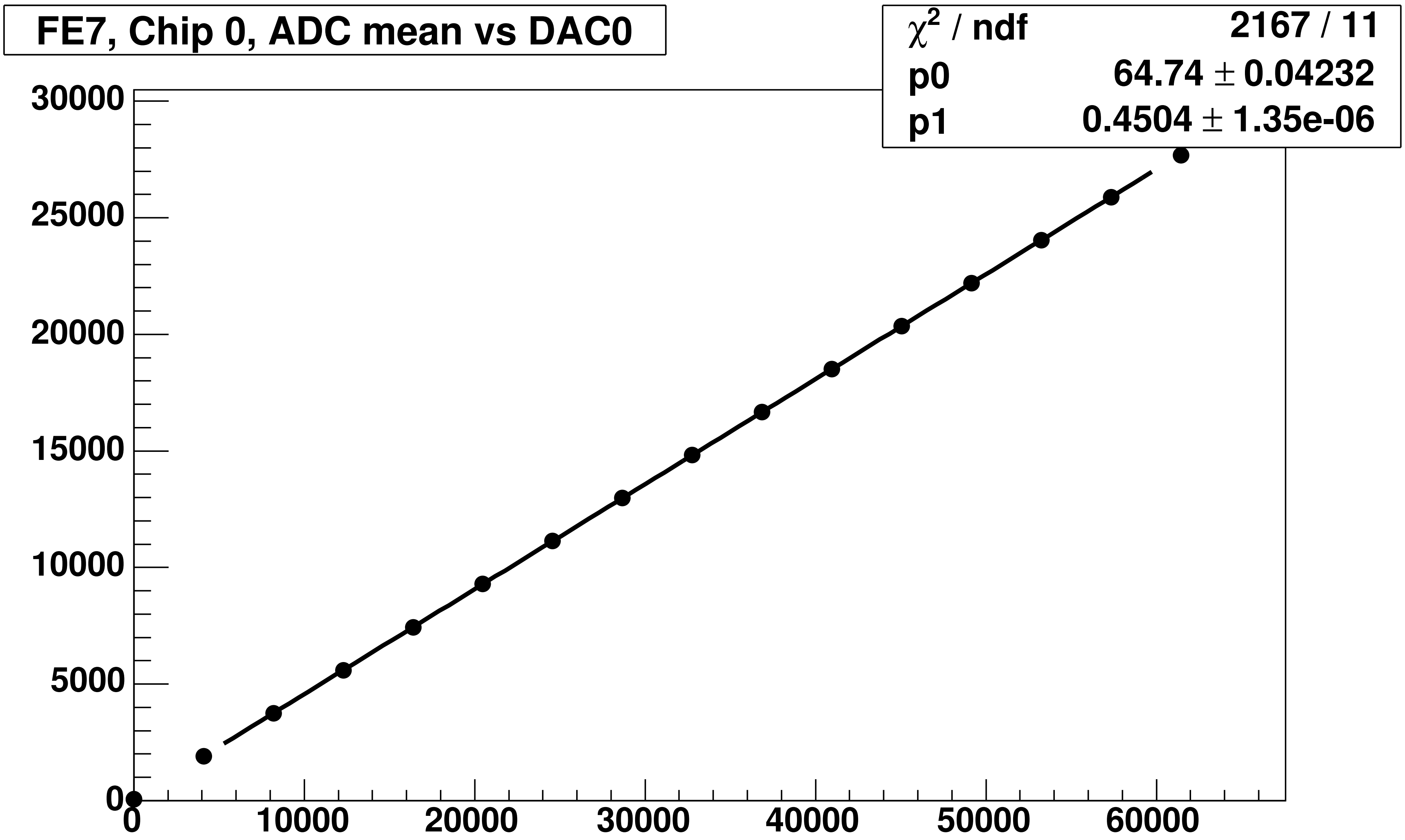


FE6, Chip 11, ADC mean vs DAC1
χ^2 / ndf 3511 / 11
p0 37.9 ± 0.04208
p1 0.4519 ± 1.357e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

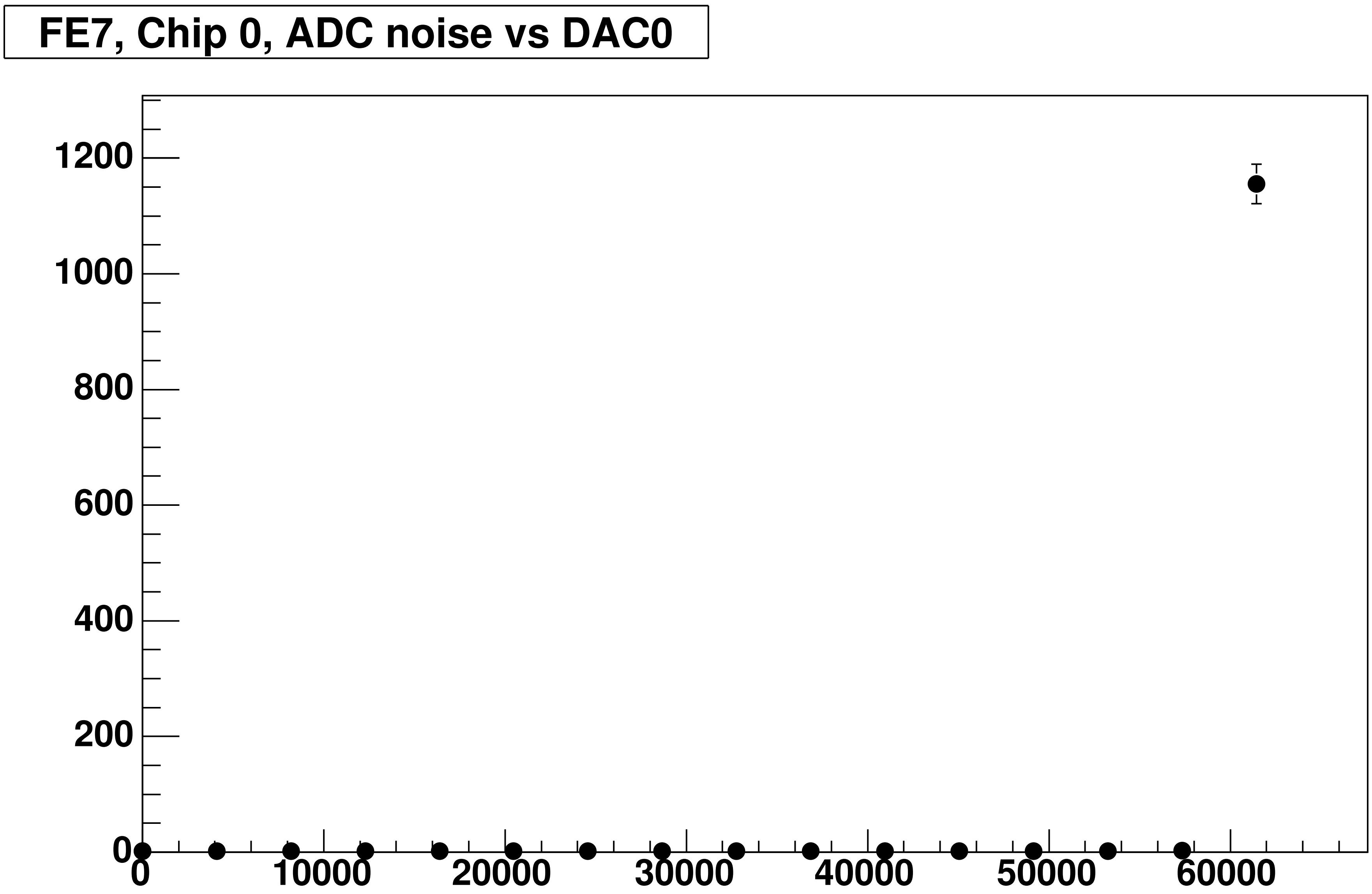

FE6, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

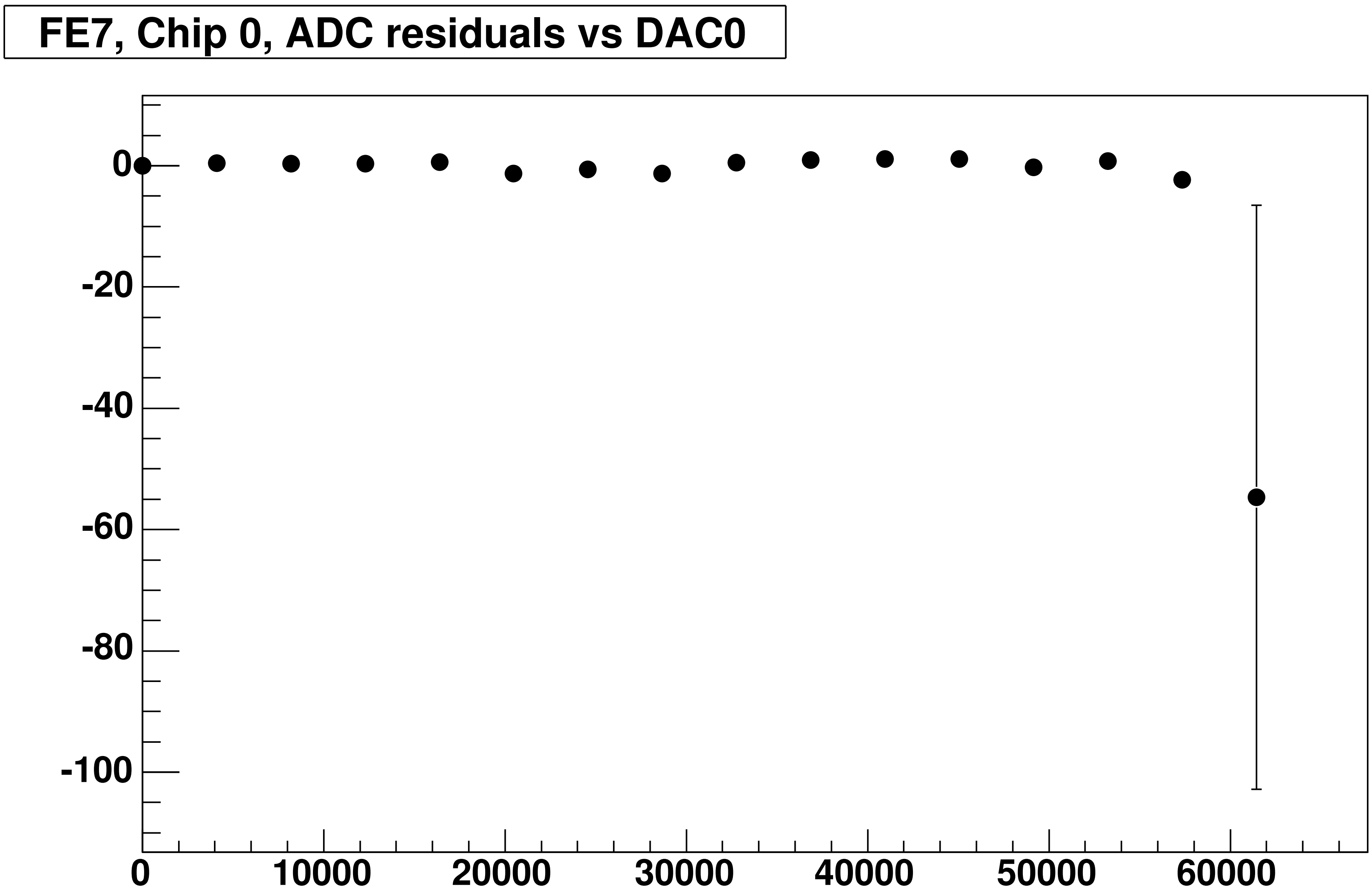
FE6, Chip 11, ADC residuals vs DAC1

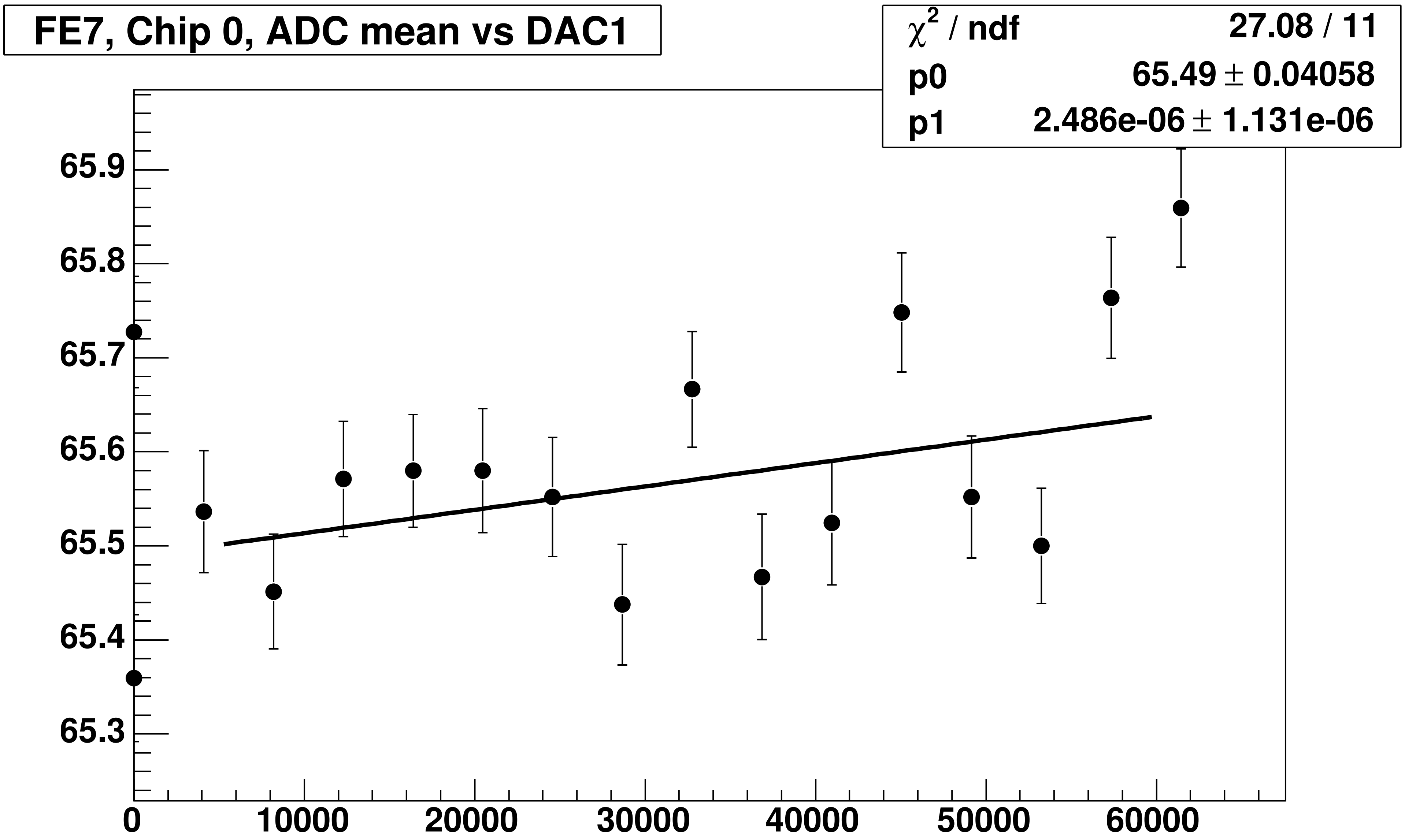


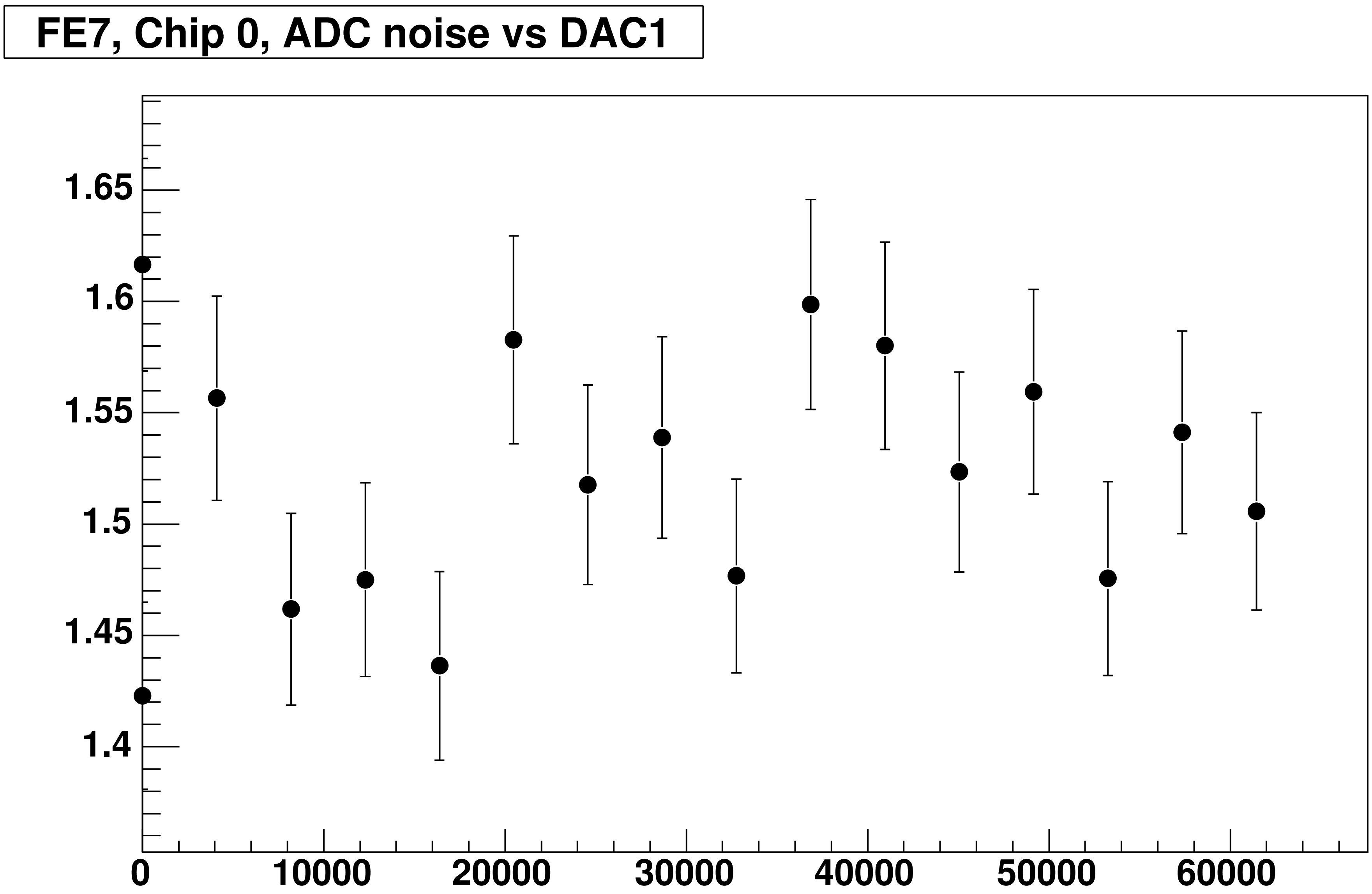


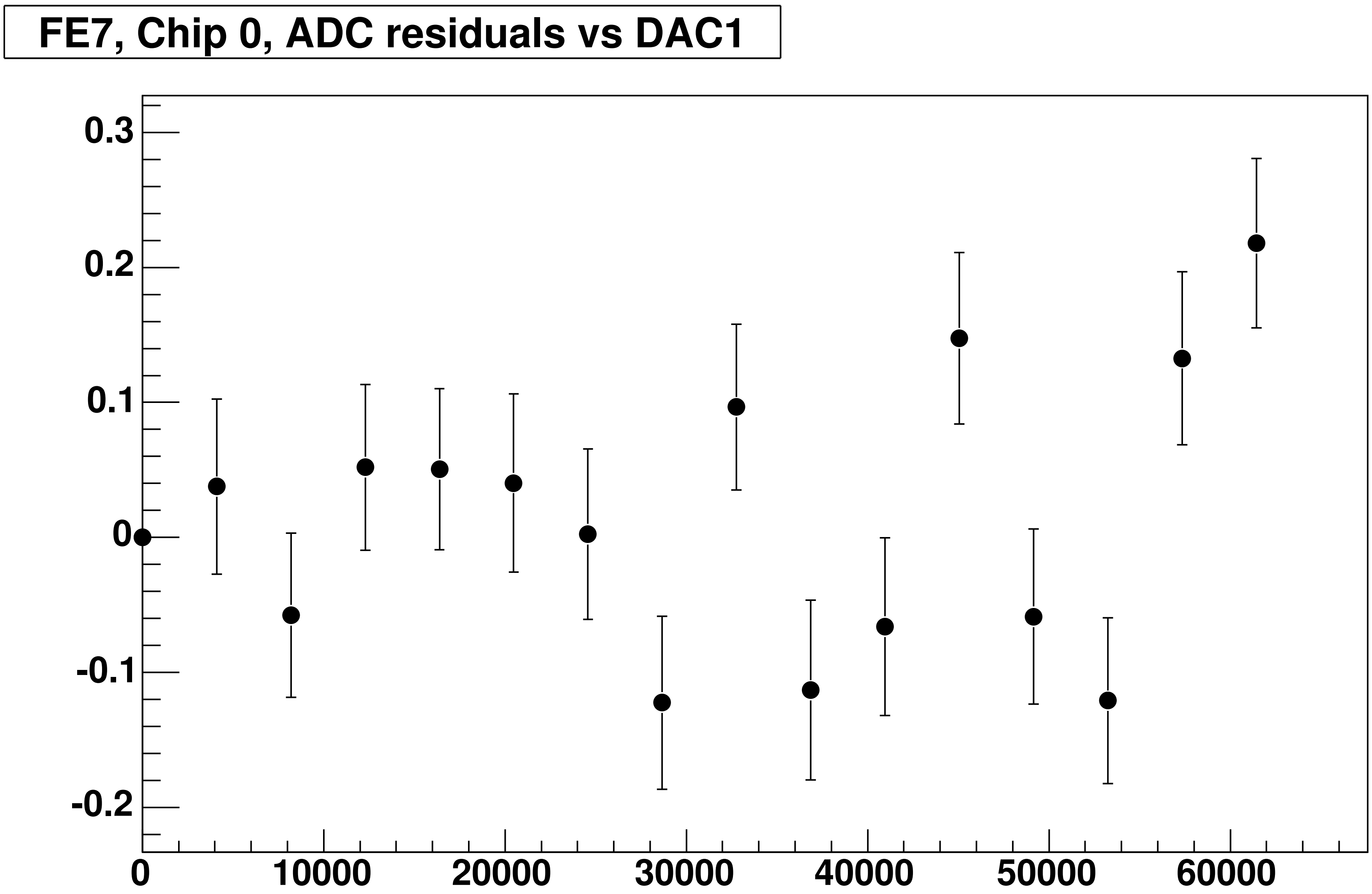
FE7, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2167 / 11
p0 64.74 ± 0.04232
p1 0.4504 ± 1.35e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

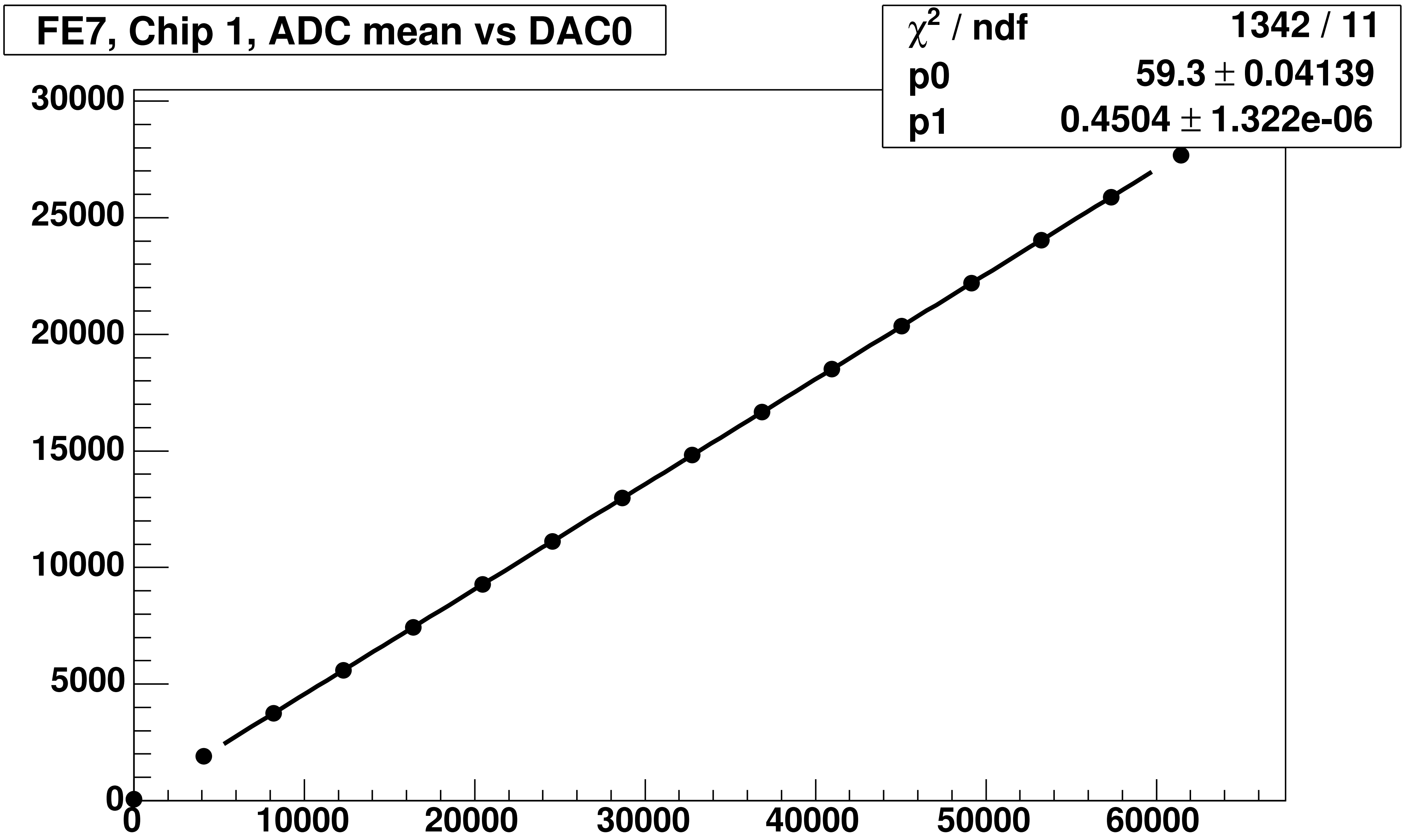

FE7, Chip 0, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

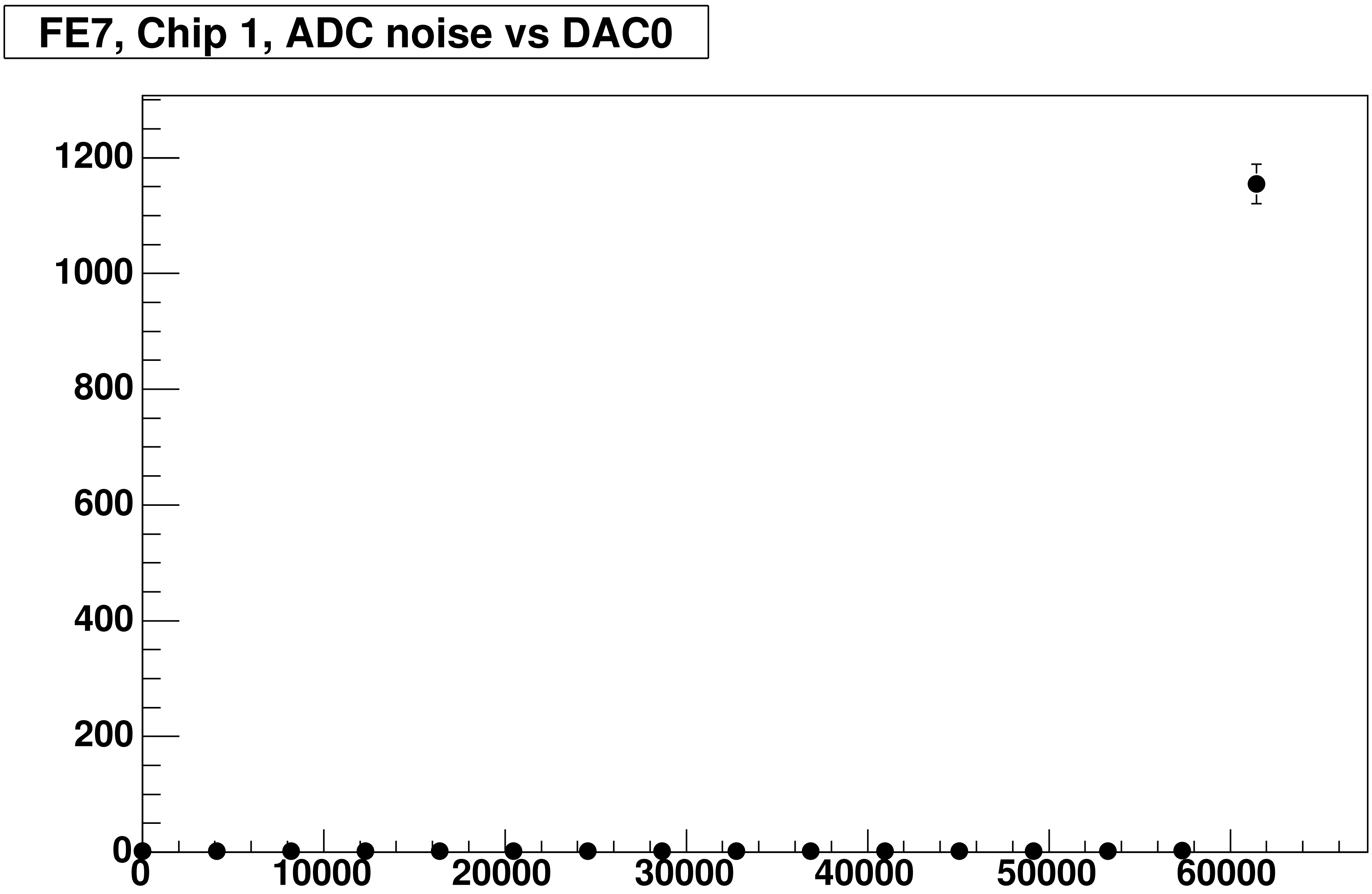

FE7, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

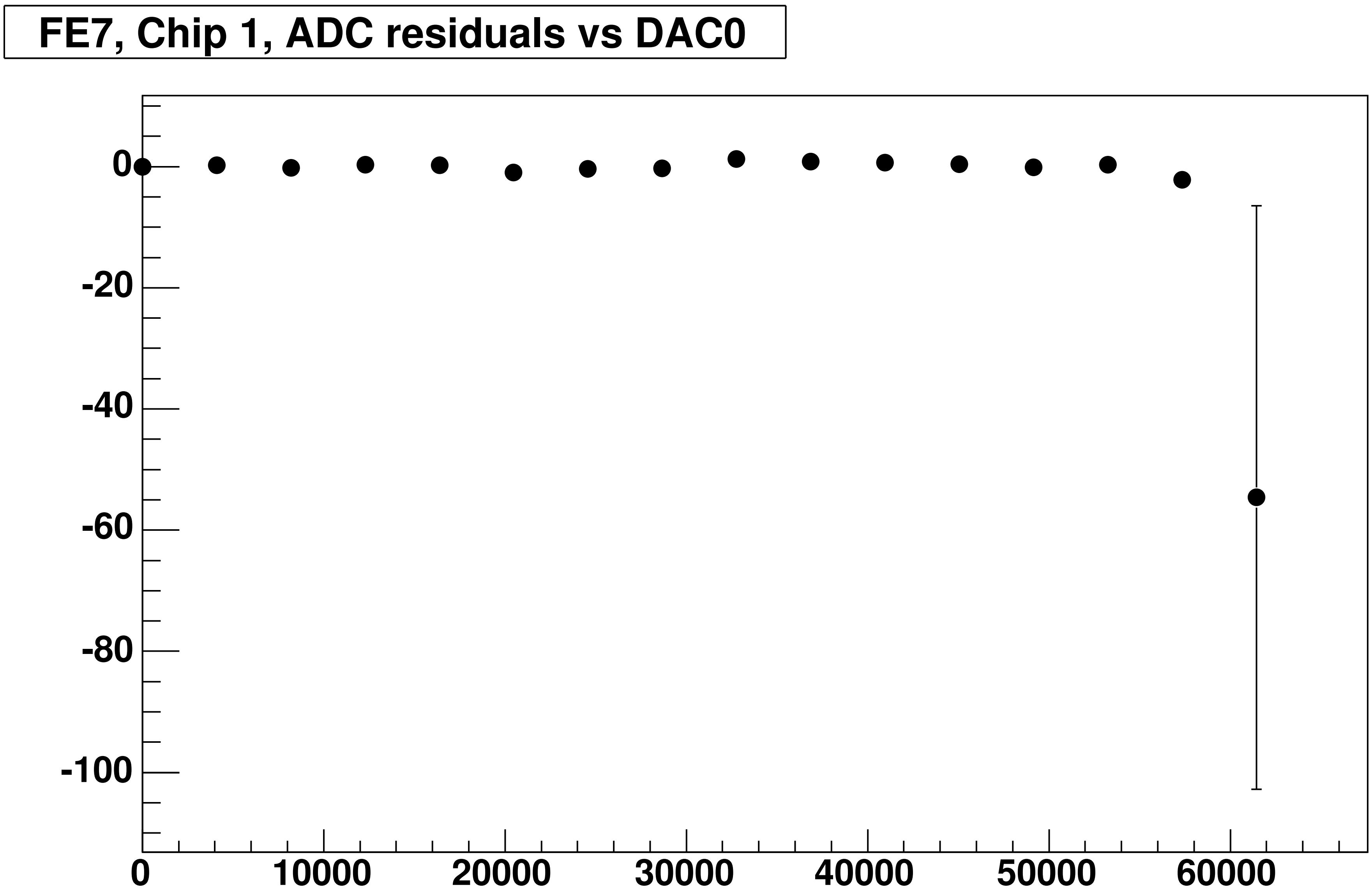

FE7, Chip 0, ADC mean vs DAC1
χ^2 / ndf 27.08 / 11
p0 65.49 ± 0.04058
p1 2.486e-06 ± 1.131e-06
65.9
65.8
65.7
65.6
65.5
65.4
65.3
0
10000
20000
30000
40000
50000
60000

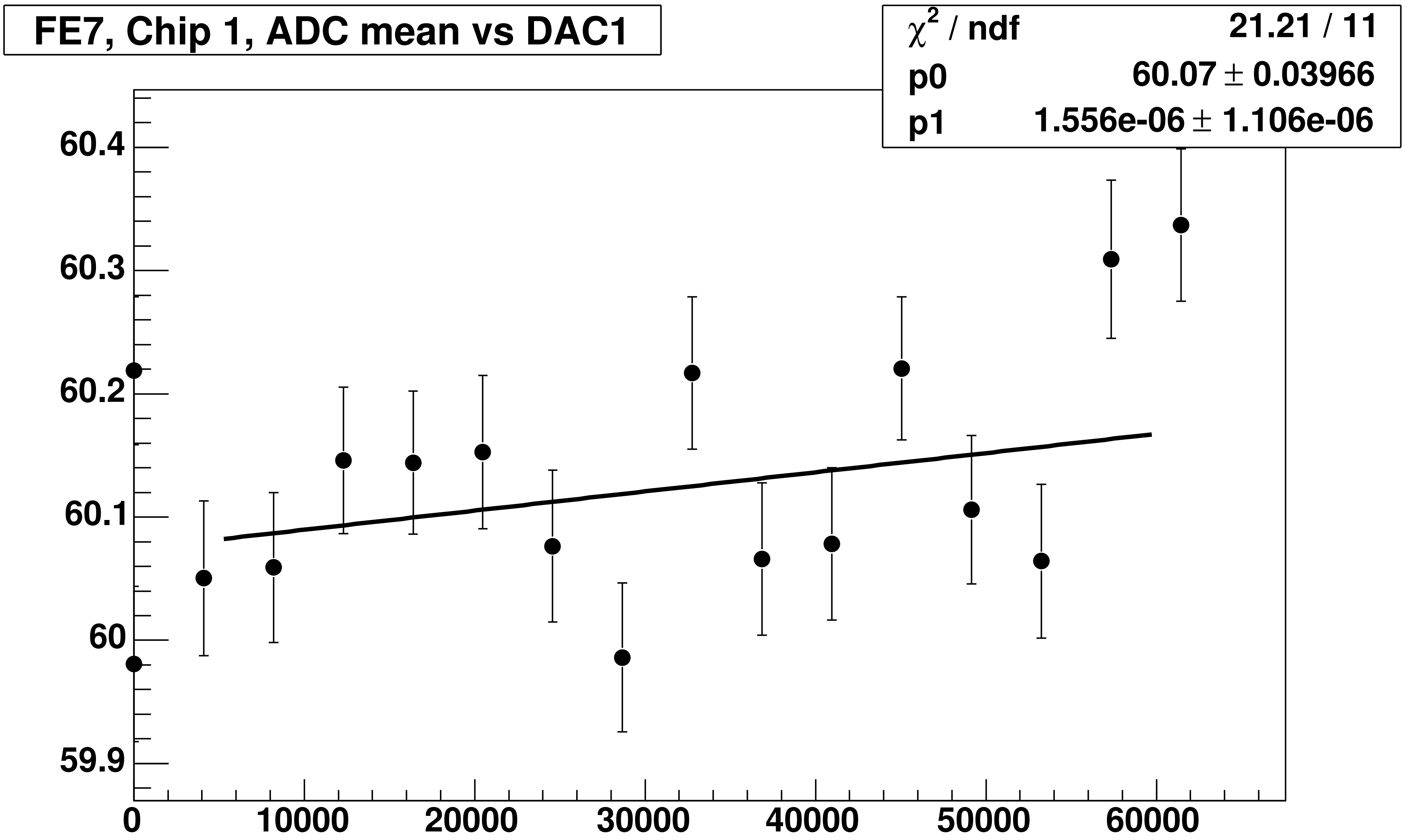

FE7, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


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

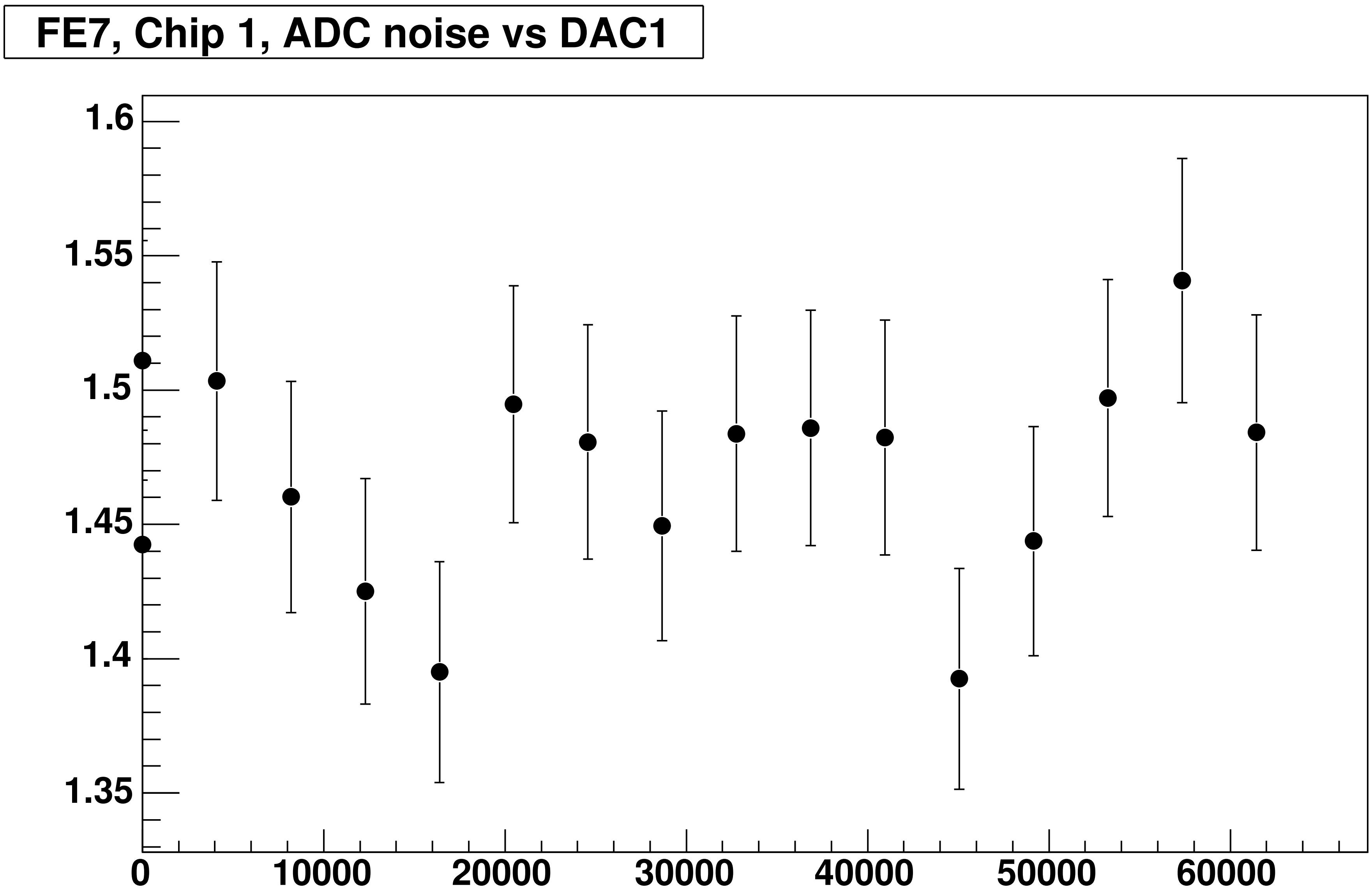

FE7, Chip 1, ADC mean vs DAC0
χ² / ndf 1342 / 11
p0 59.3 ± 0.04139
p1 0.4504 ± 1.322e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

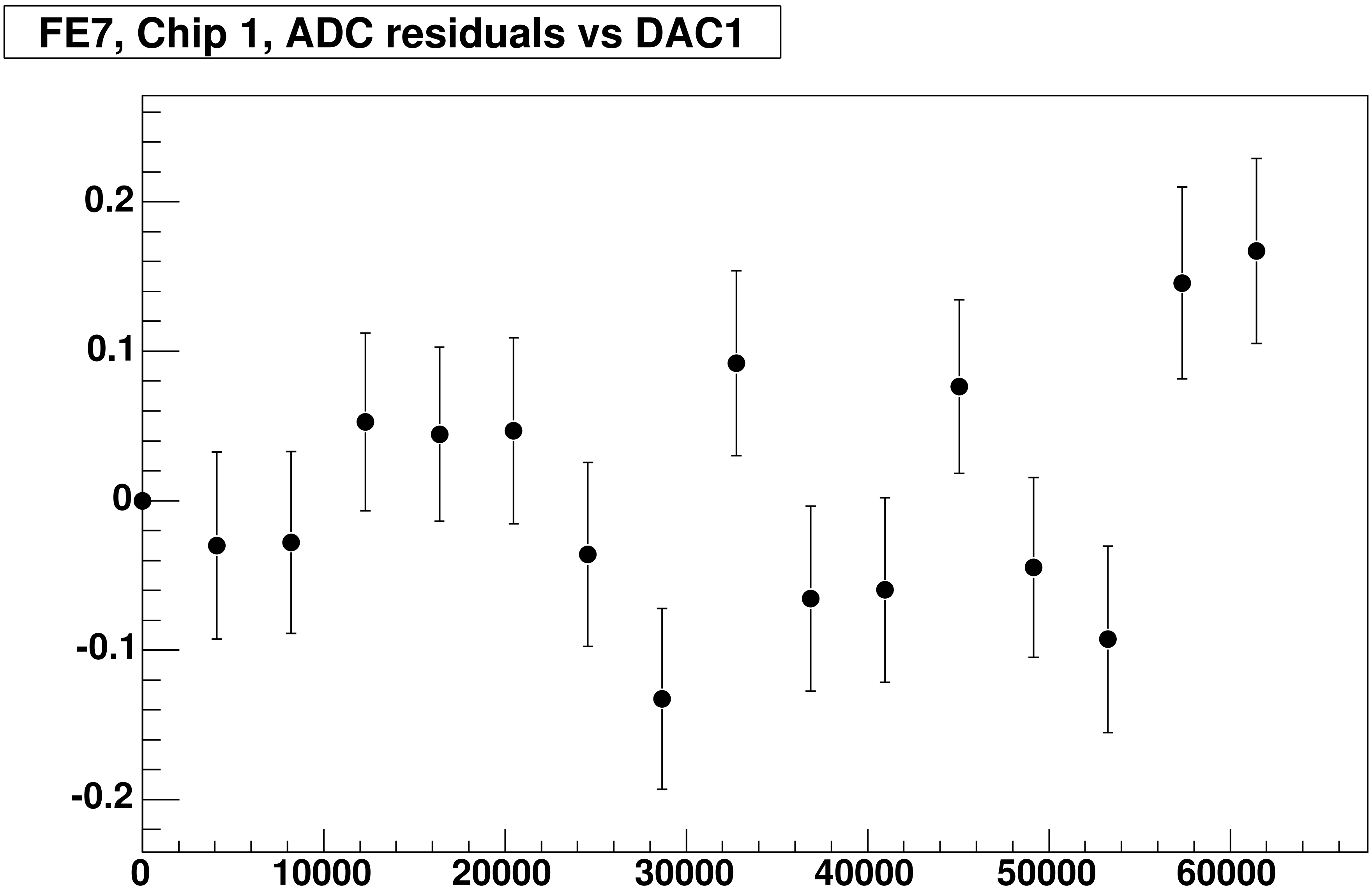

FE7, Chip 1, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

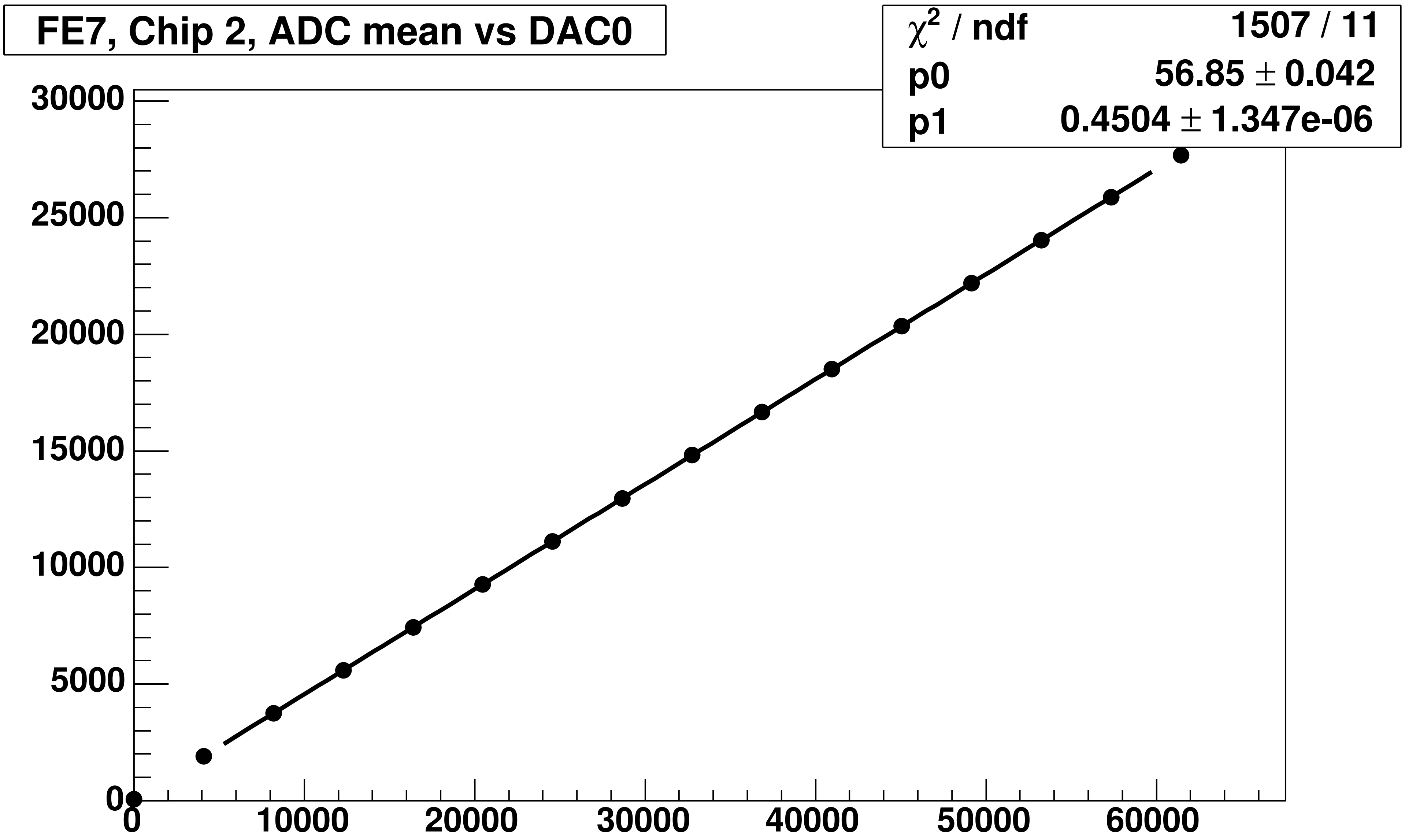

FE7, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



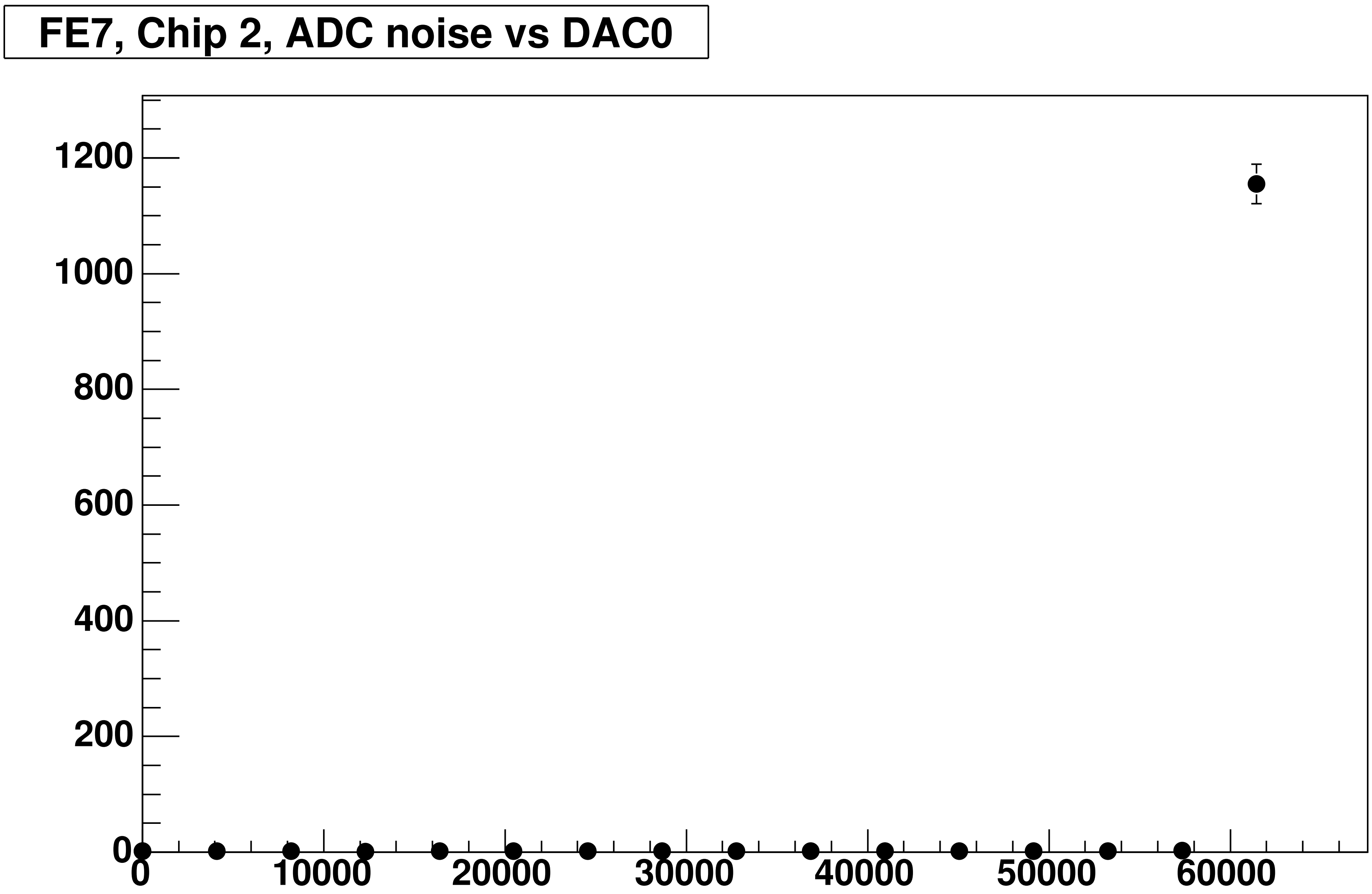
FE7, Chip 1, ADC mean vs DAC1
χ^2 / ndf 21.21 / 11
p0 60.07 ± 0.03966
p1 1.556e-06 ± 1.106e-06
60.4
60.3
60.2
60.1
60
59.9
0
10000
20000
30000
40000
50000
60000


FE7, 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

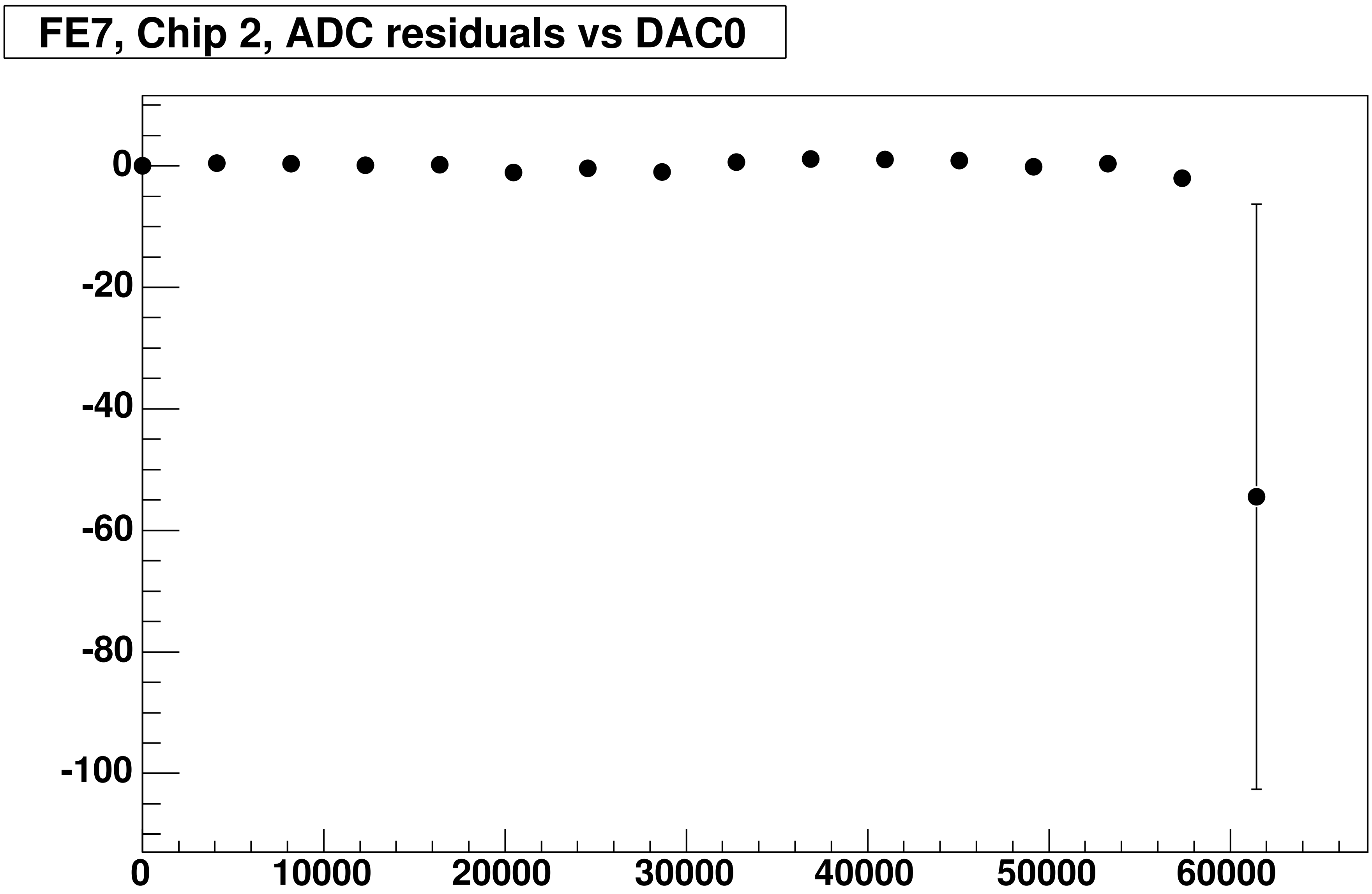

FE7, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



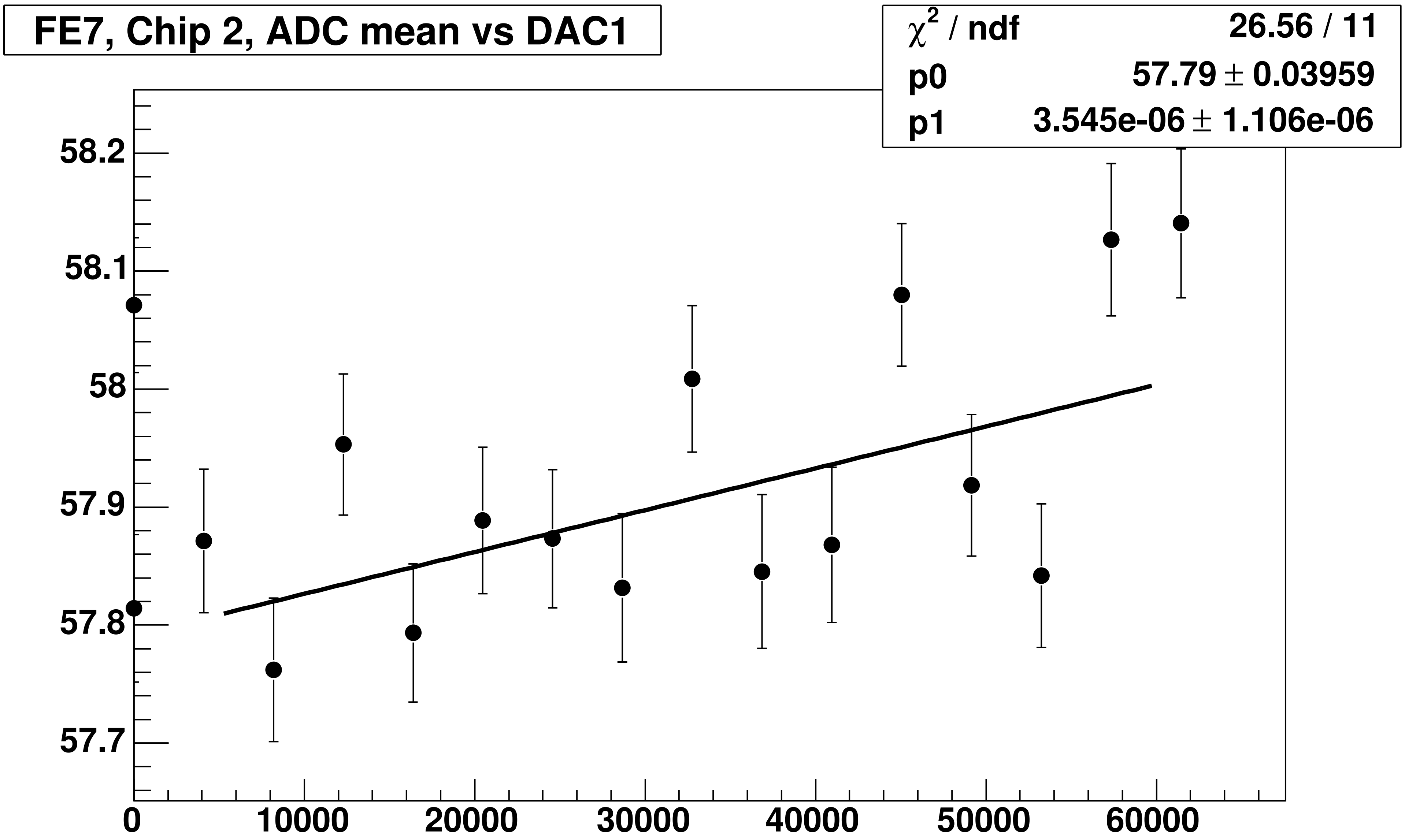
FE7, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1507 / 11
p0 56.85 ± 0.042
p1 0.4504 ± 1.347e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

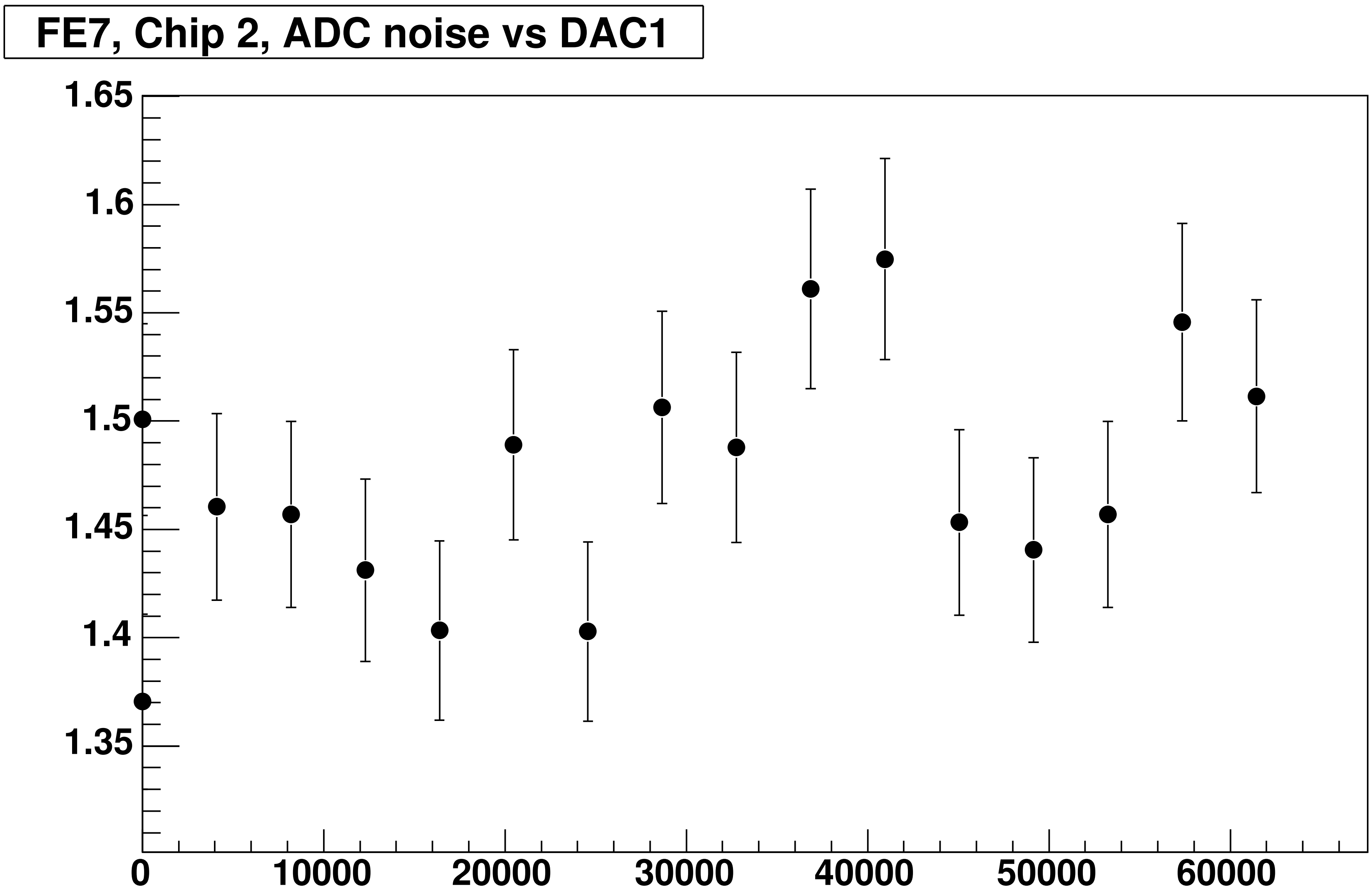


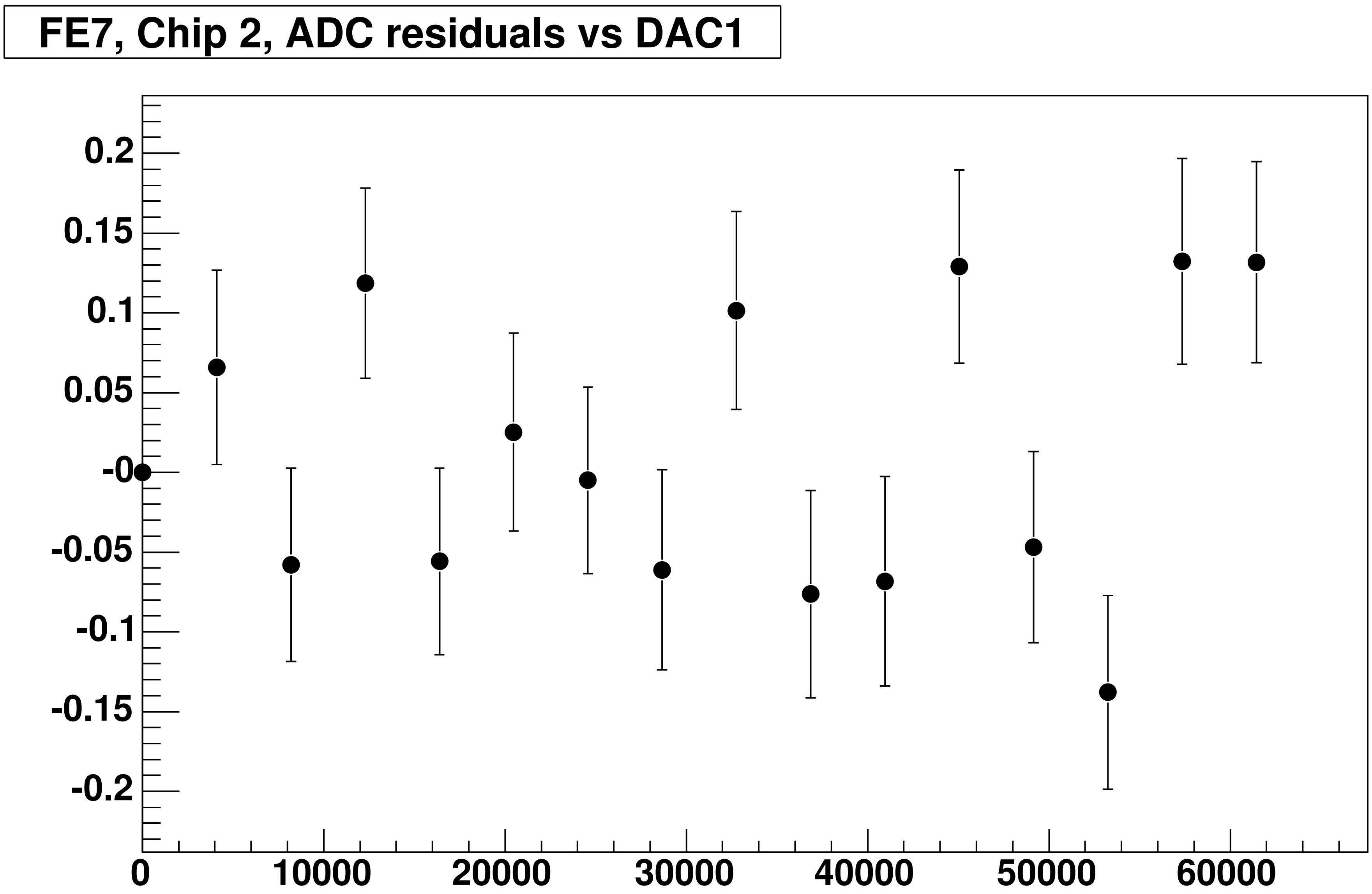
FE7, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



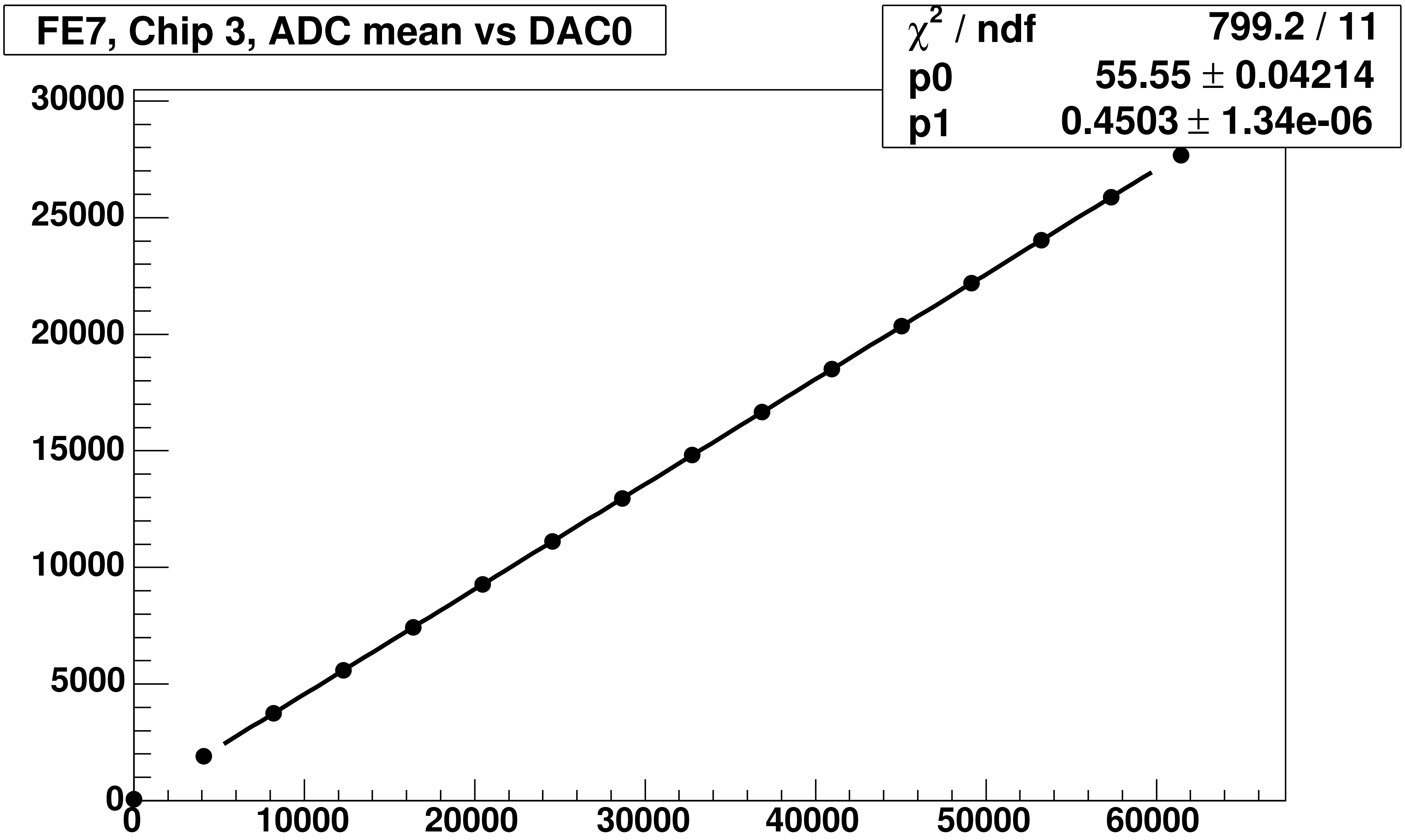
FE7, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

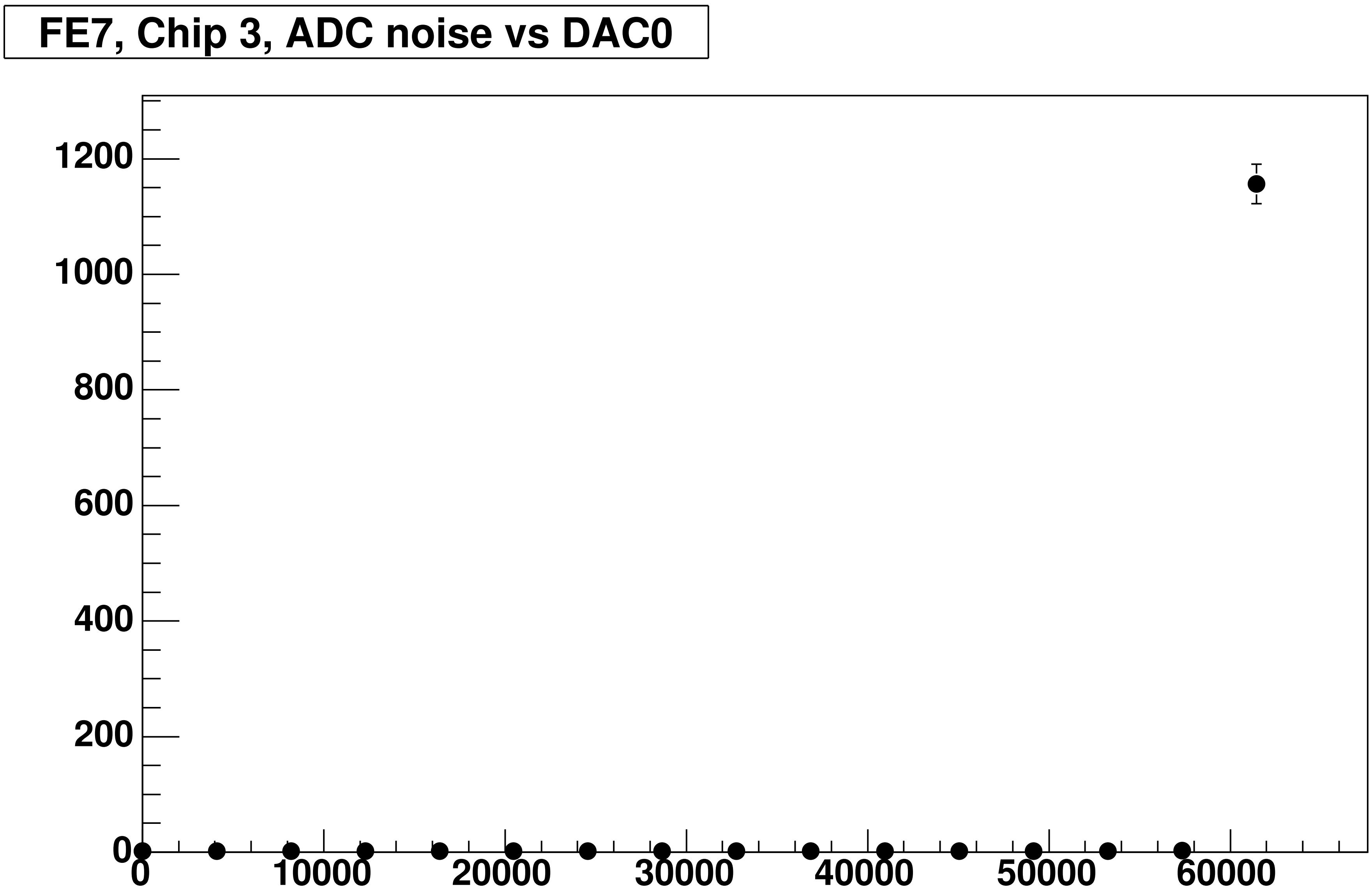

FE7, Chip 2, ADC mean vs DAC1
χ^2 / ndf 26.56 / 11
p0 57.79 ± 0.03959
p1 3.545e-06 ± 1.106e-06
58.2
58.1
58
57.9
57.8
57.7
0
10000
20000
30000
40000
50000
60000

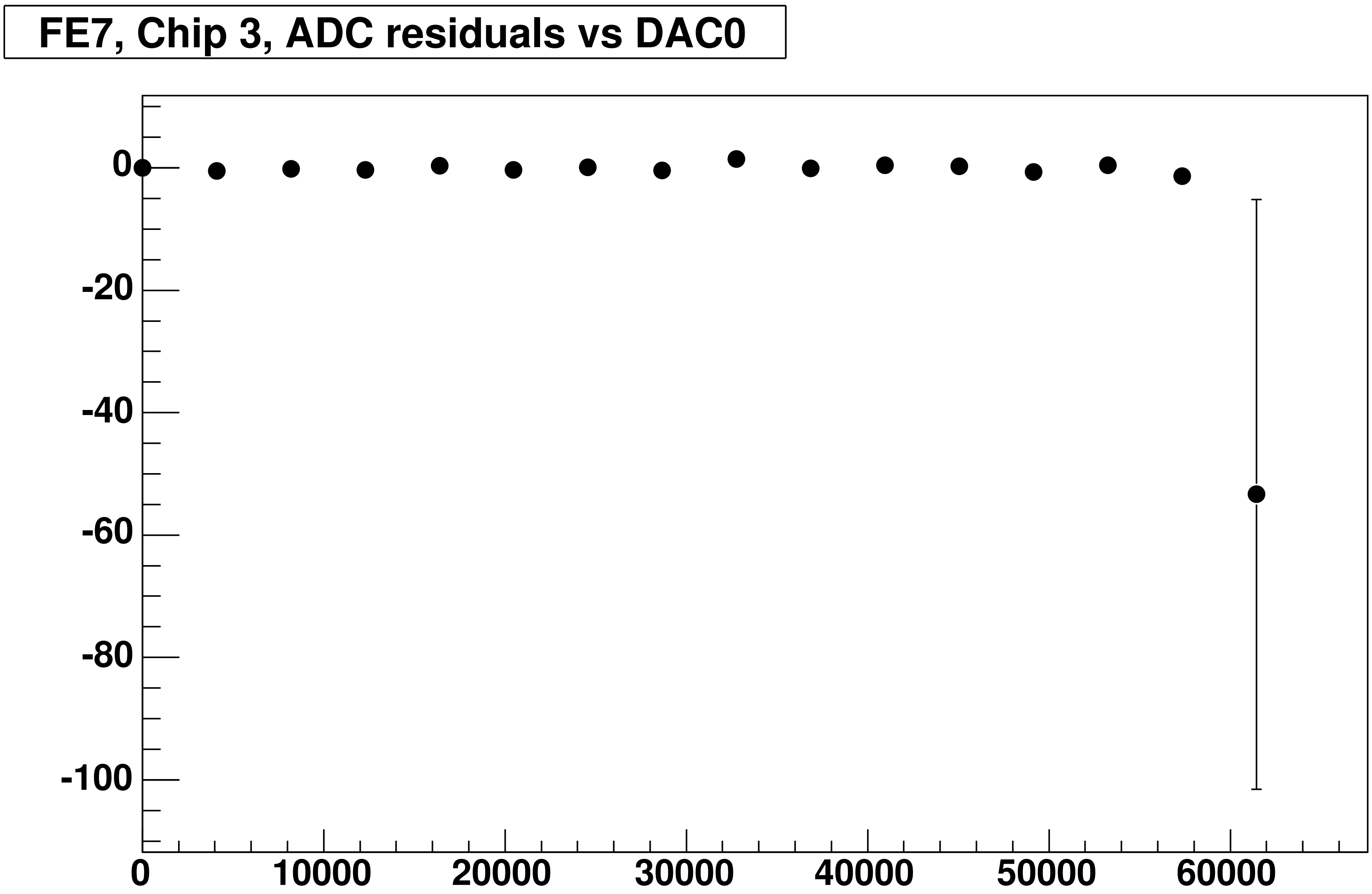

FE7, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

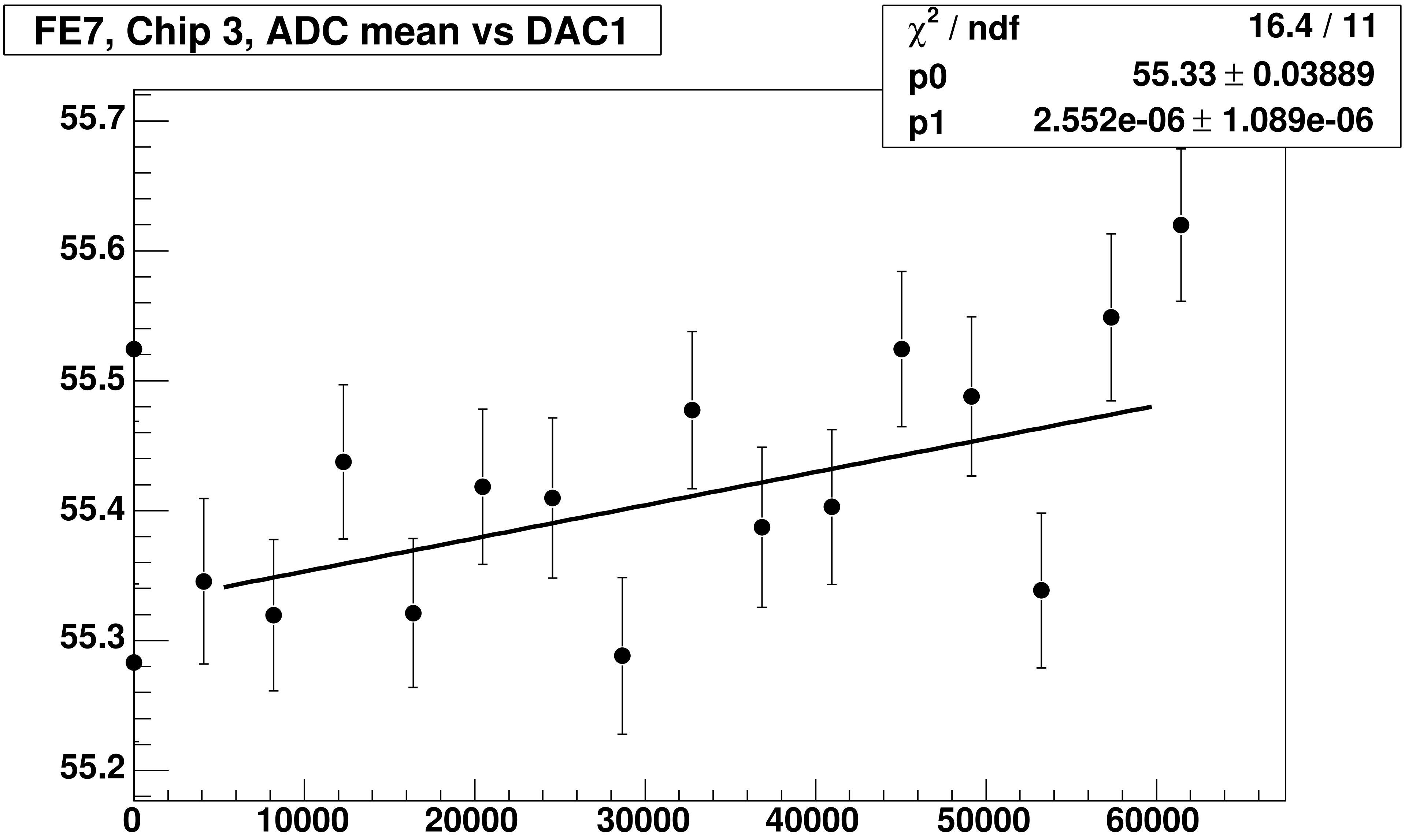


FE7, Chip 2, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

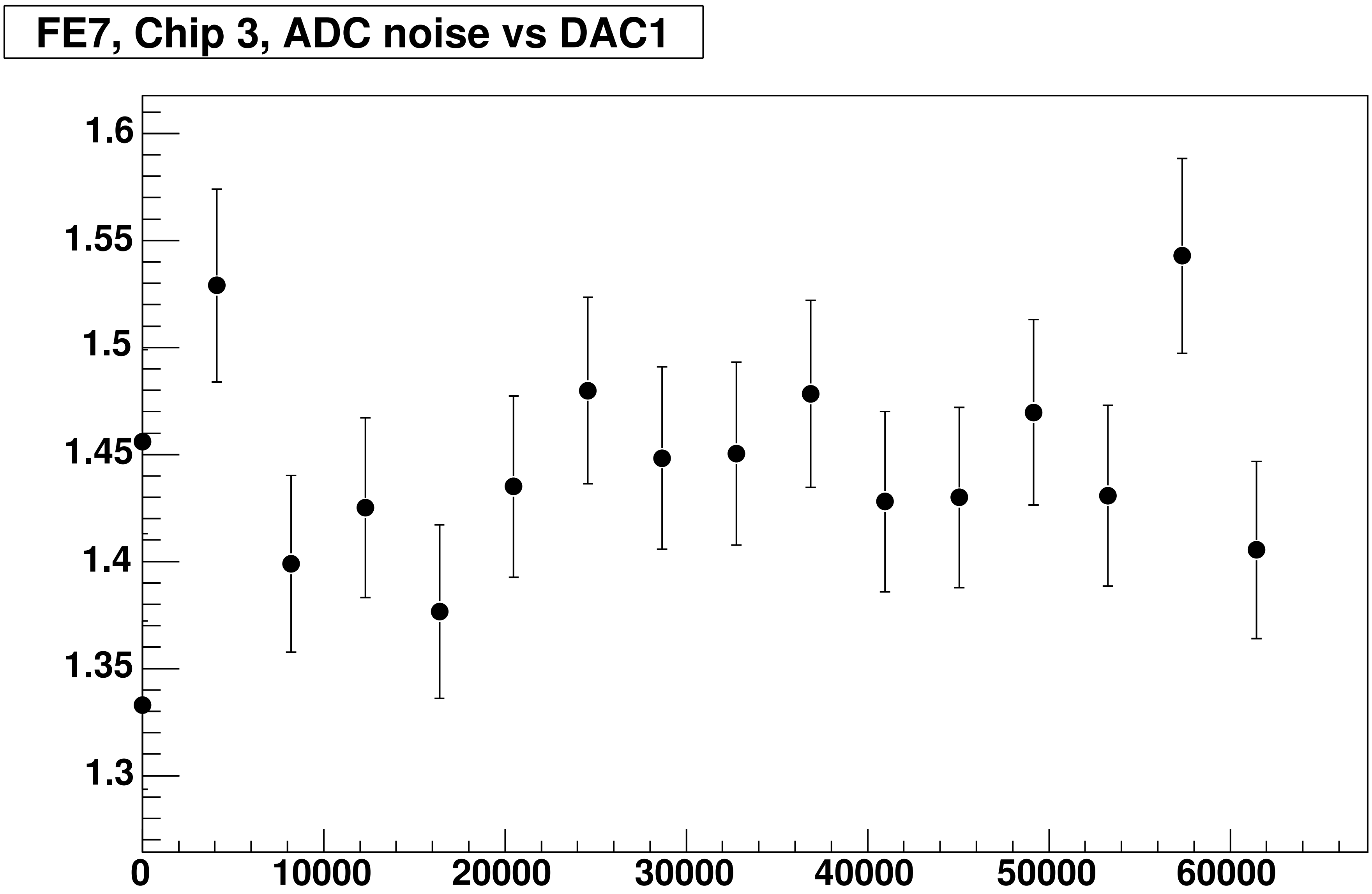

FE7, Chip 3, ADC mean vs DAC0
χ² / ndf 799.2 / 11
p0 55.55 ± 0.04214
p1 0.4503 ± 1.34e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

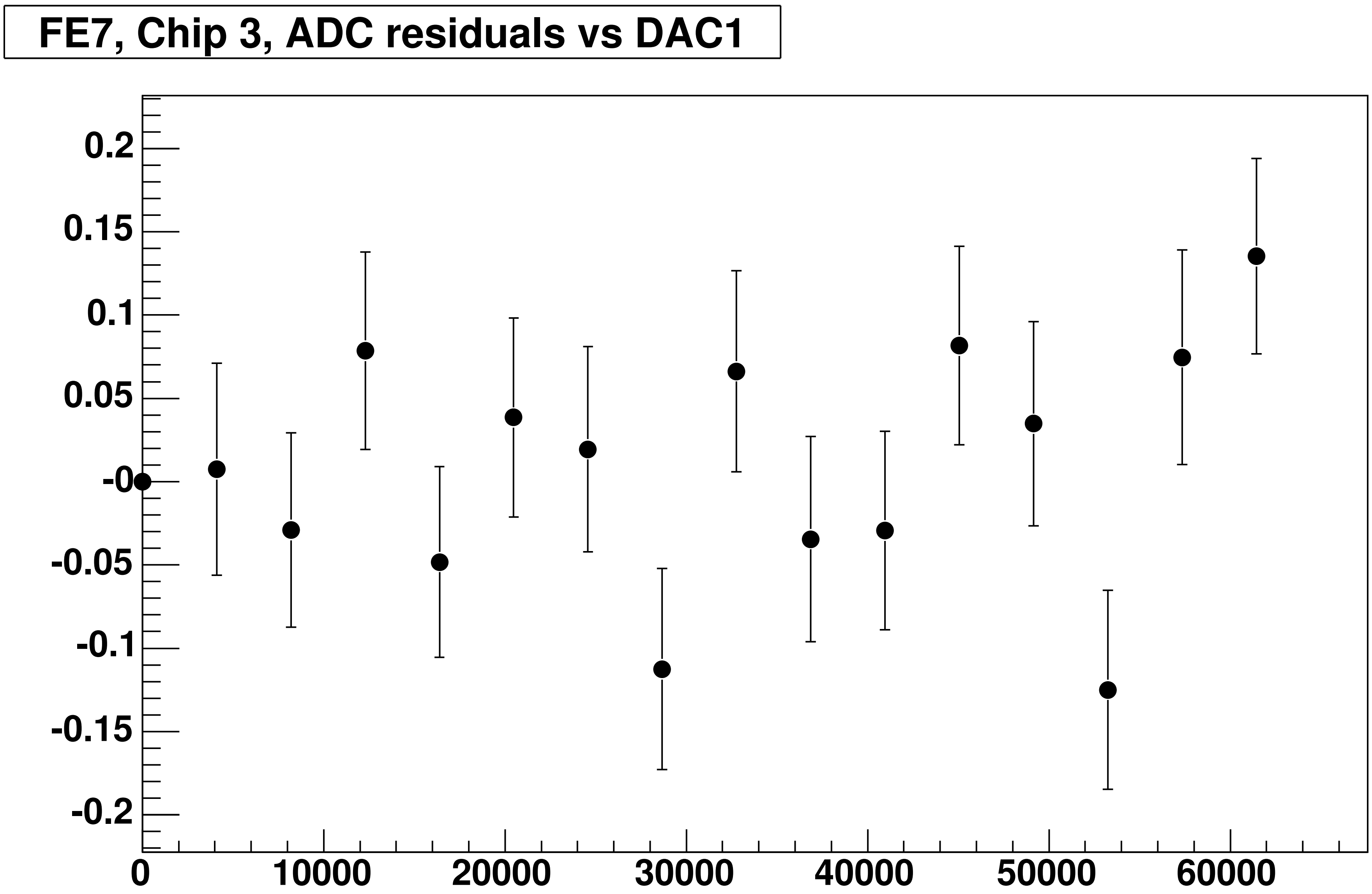

FE7, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

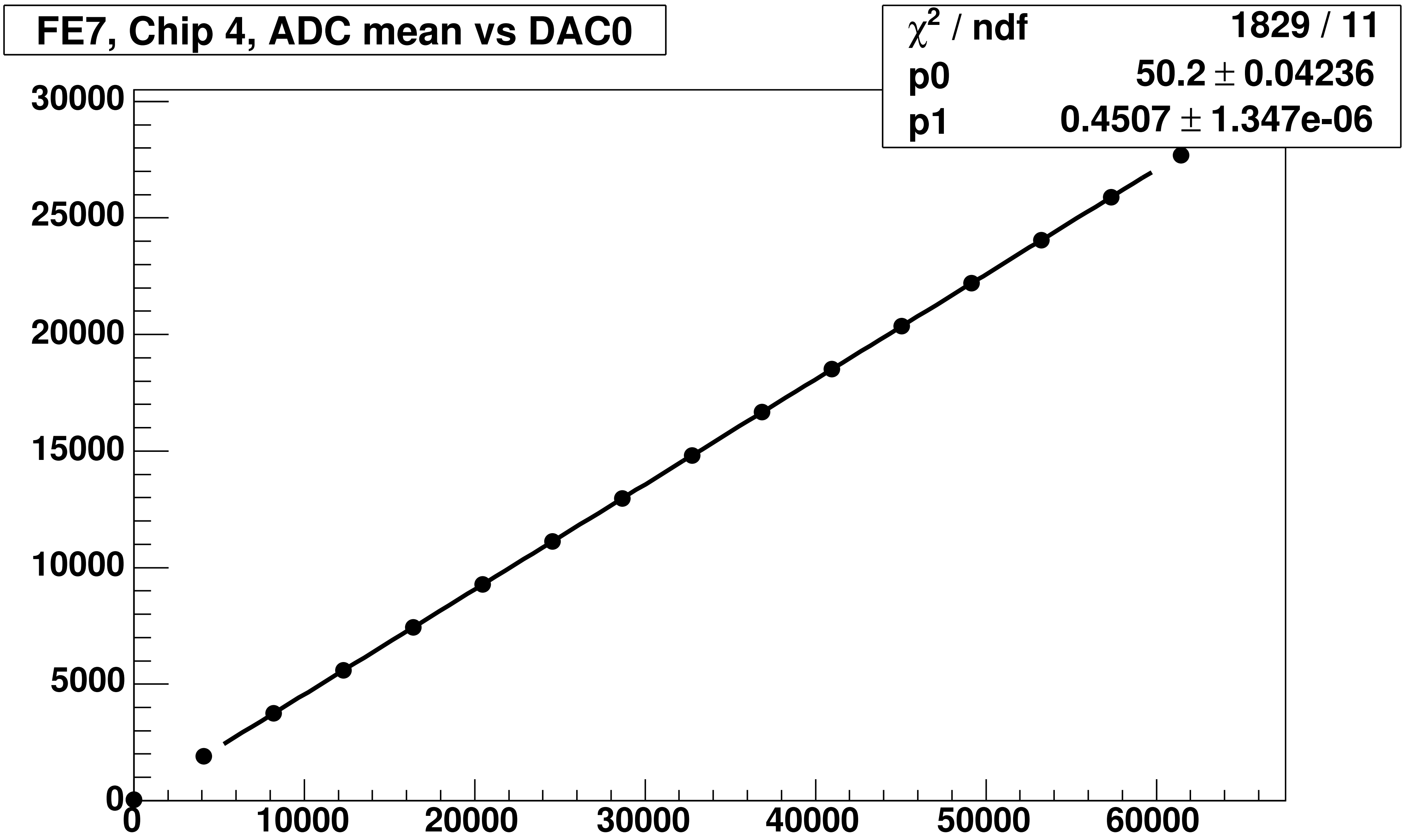


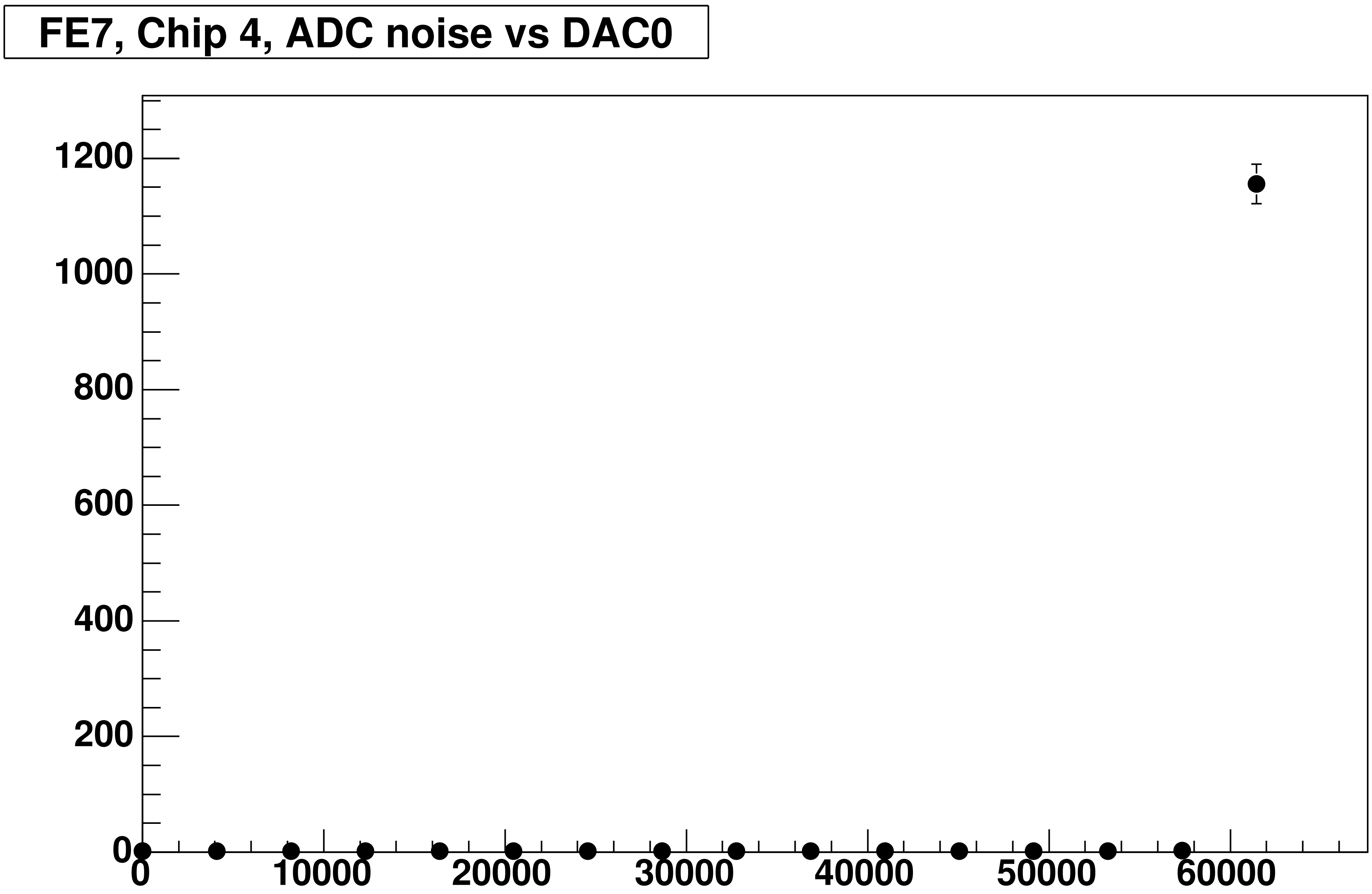
FE7, Chip 3, ADC mean vs DAC1
χ2 / ndf 16.4 / 11
p0 55.33 ± 0.03889
p1 2.552e-06 ± 1.089e-06
55.2
55.3
55.4
55.5
55.6
55.7
0
10000
20000
30000
40000
50000
60000

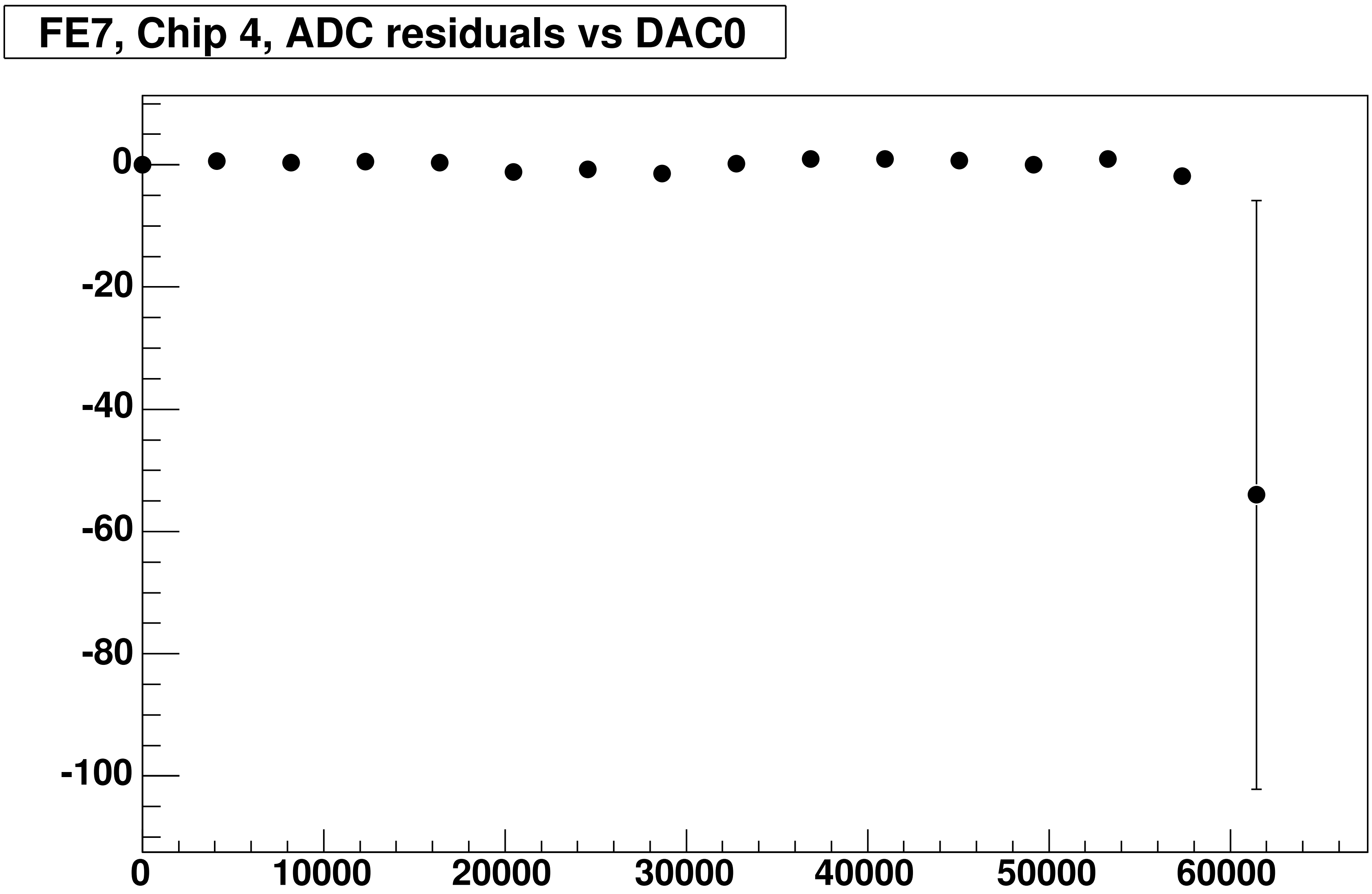

FE7, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

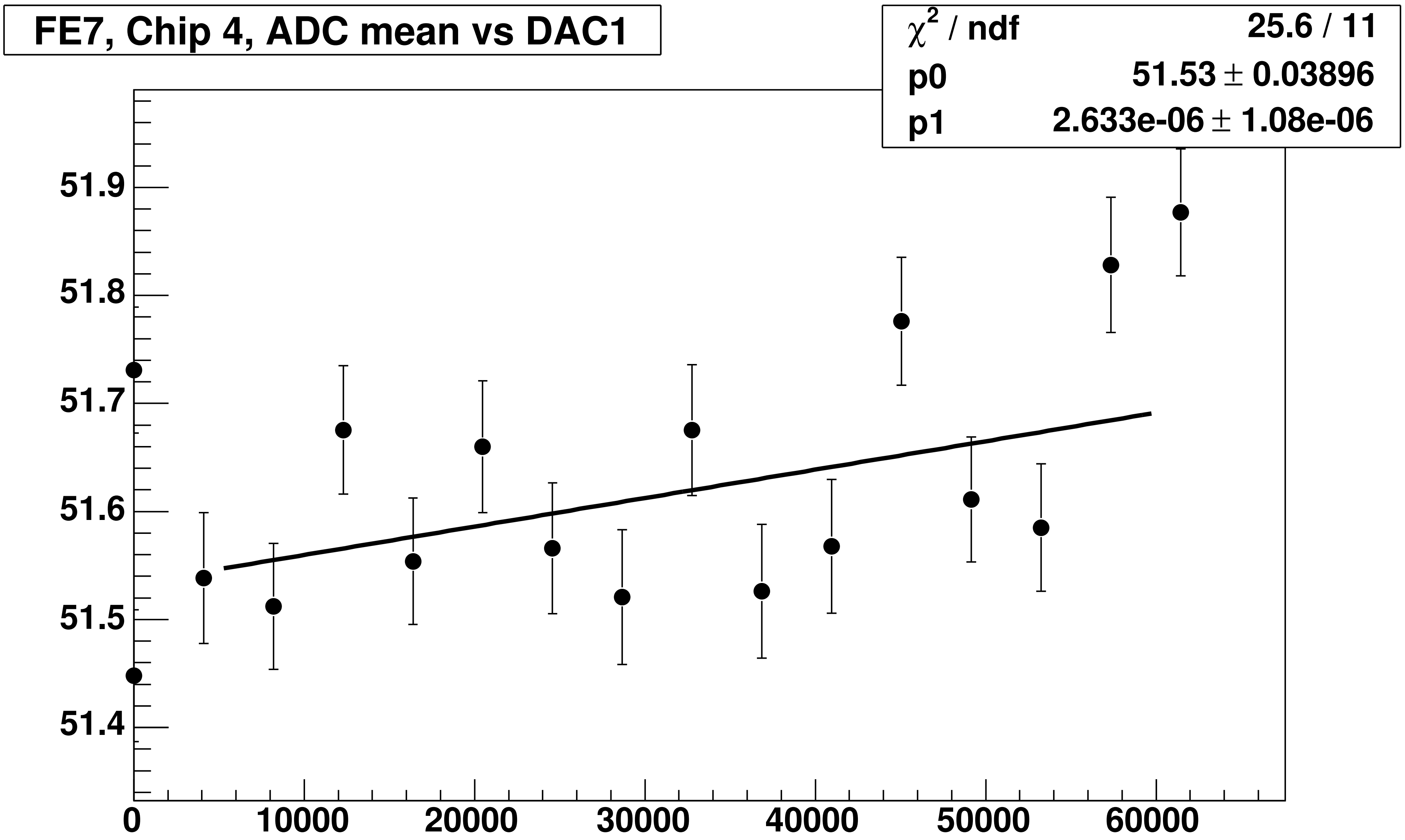


FE7, Chip 3, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

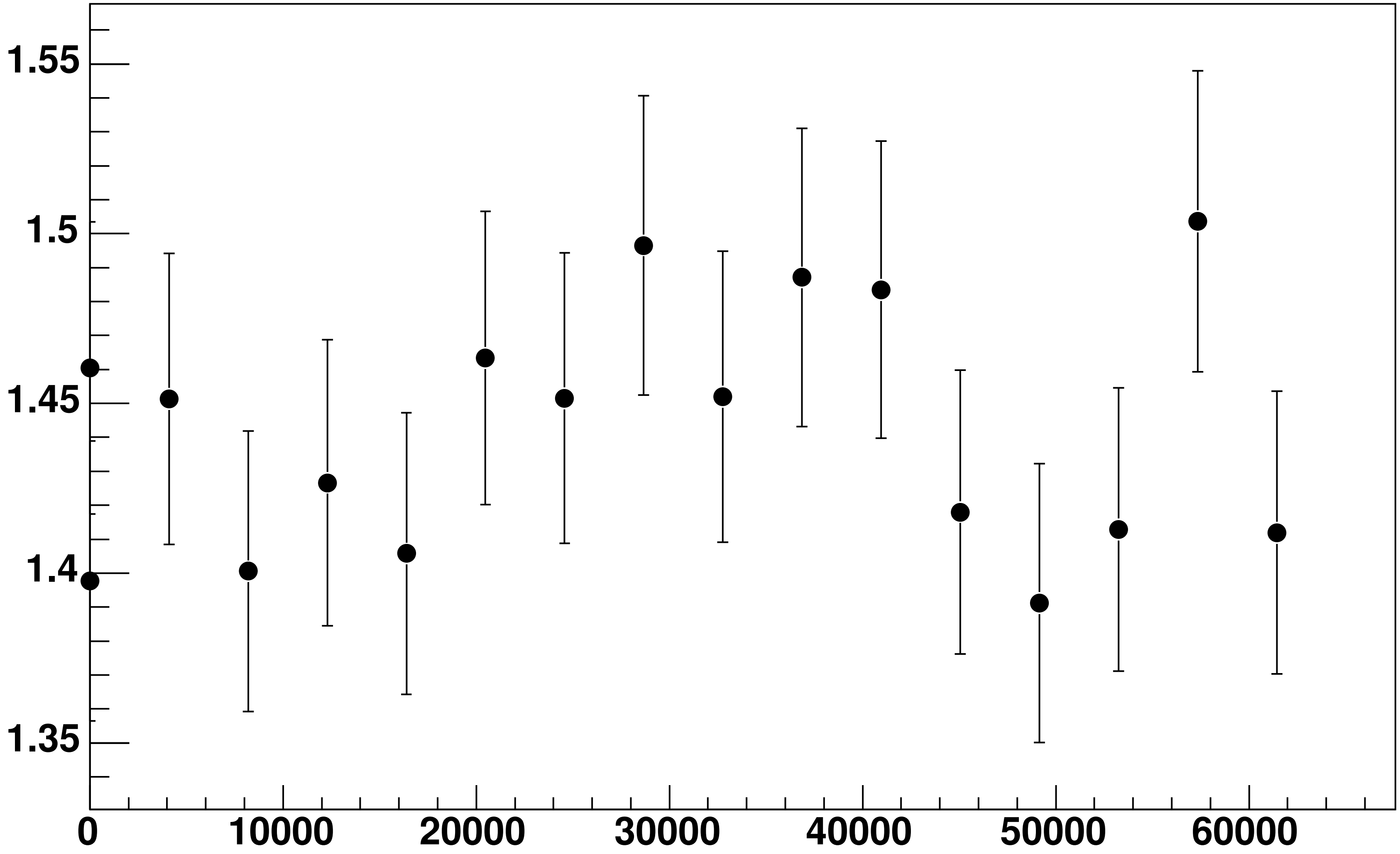

FE7, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1829 / 11
p0 50.2 ± 0.04236
p1 0.4507 ± 1.347e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

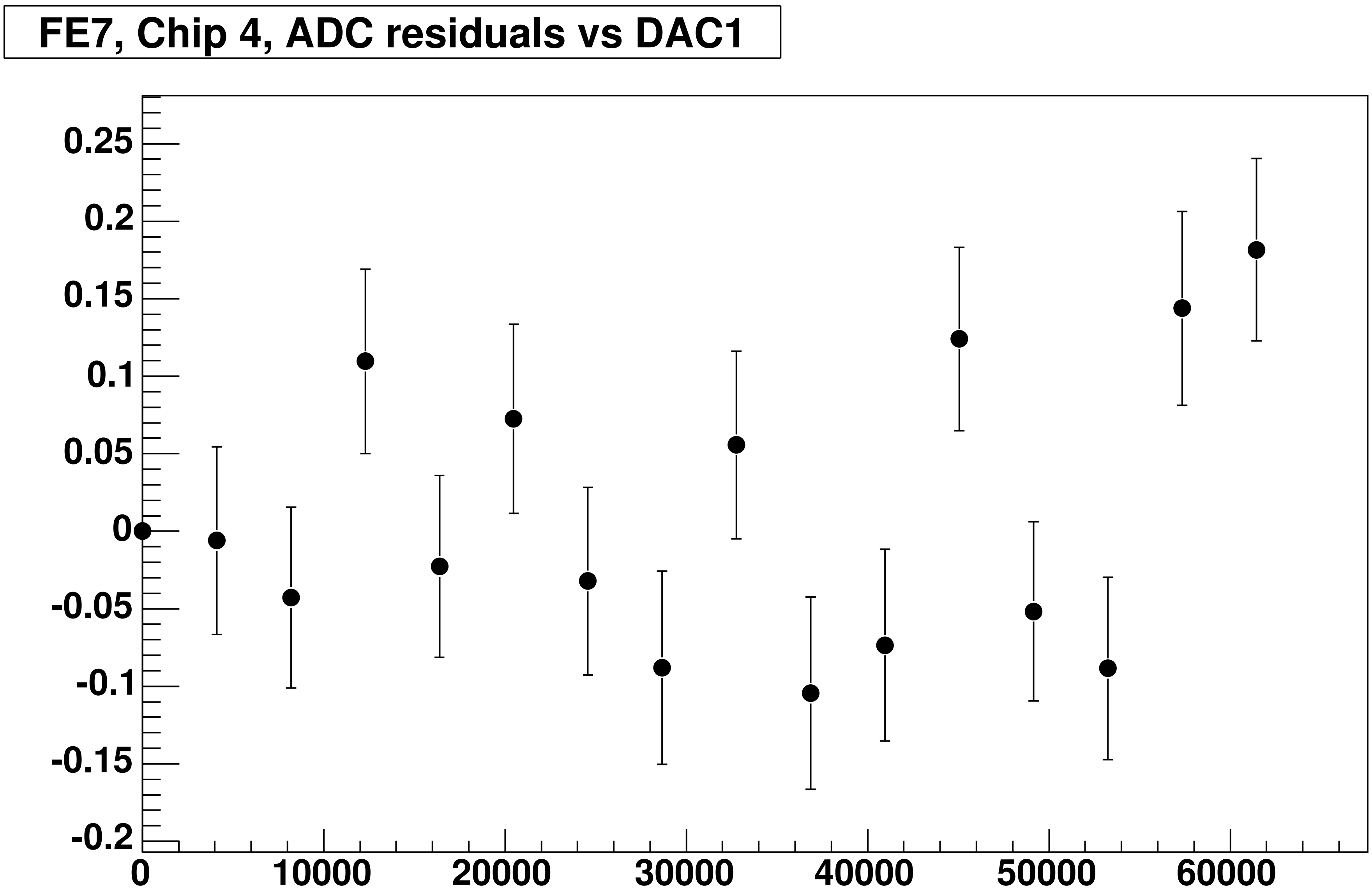

FE7, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

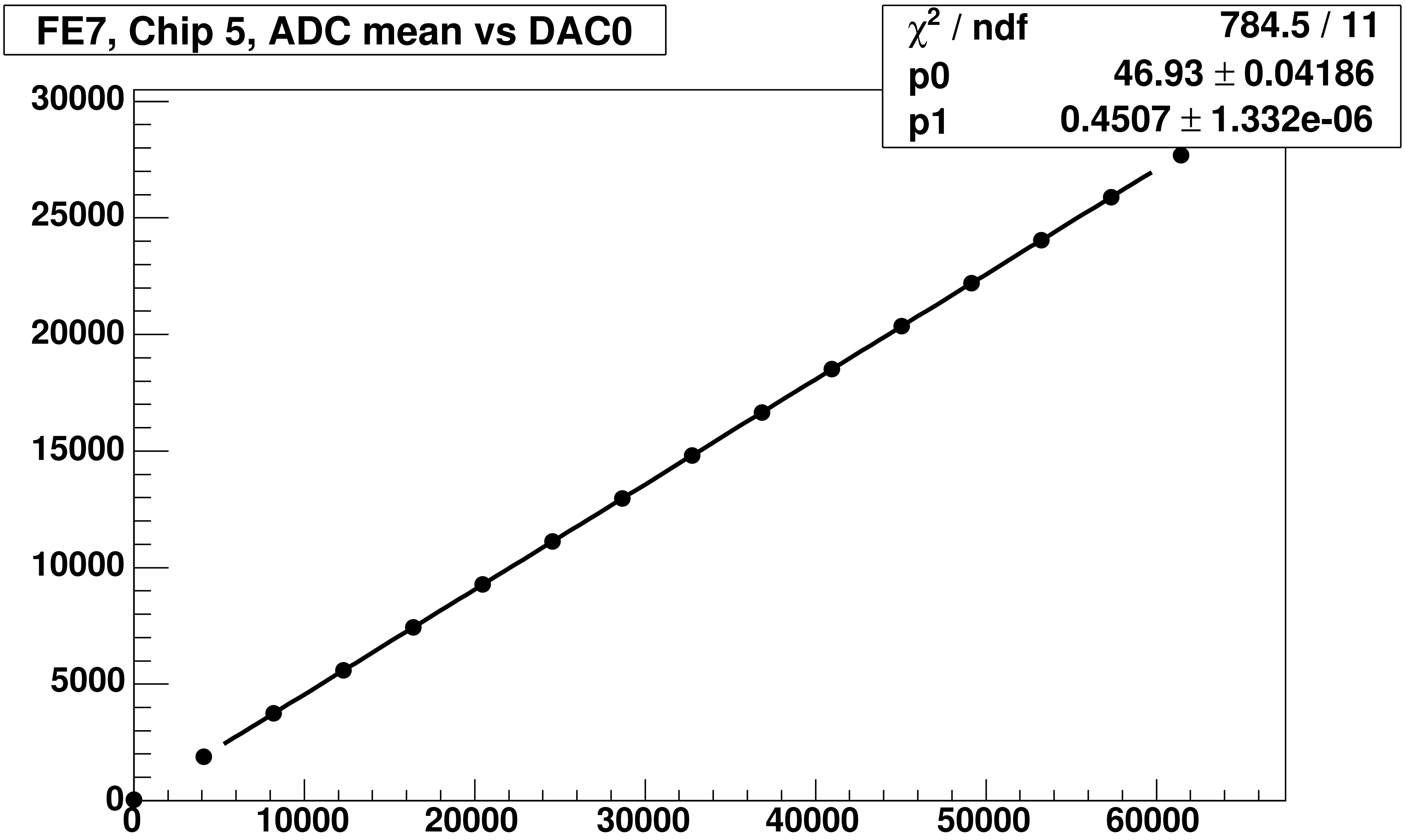

FE7, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC mean vs DAC1
χ2 / ndf 25.6 / 11
p0 51.53 ± 0.03896
p1 2.633e-06 ± 1.08e-06
51.4
51.5
51.6
51.7
51.8
51.9
0
10000
20000
30000
40000
50000
60000

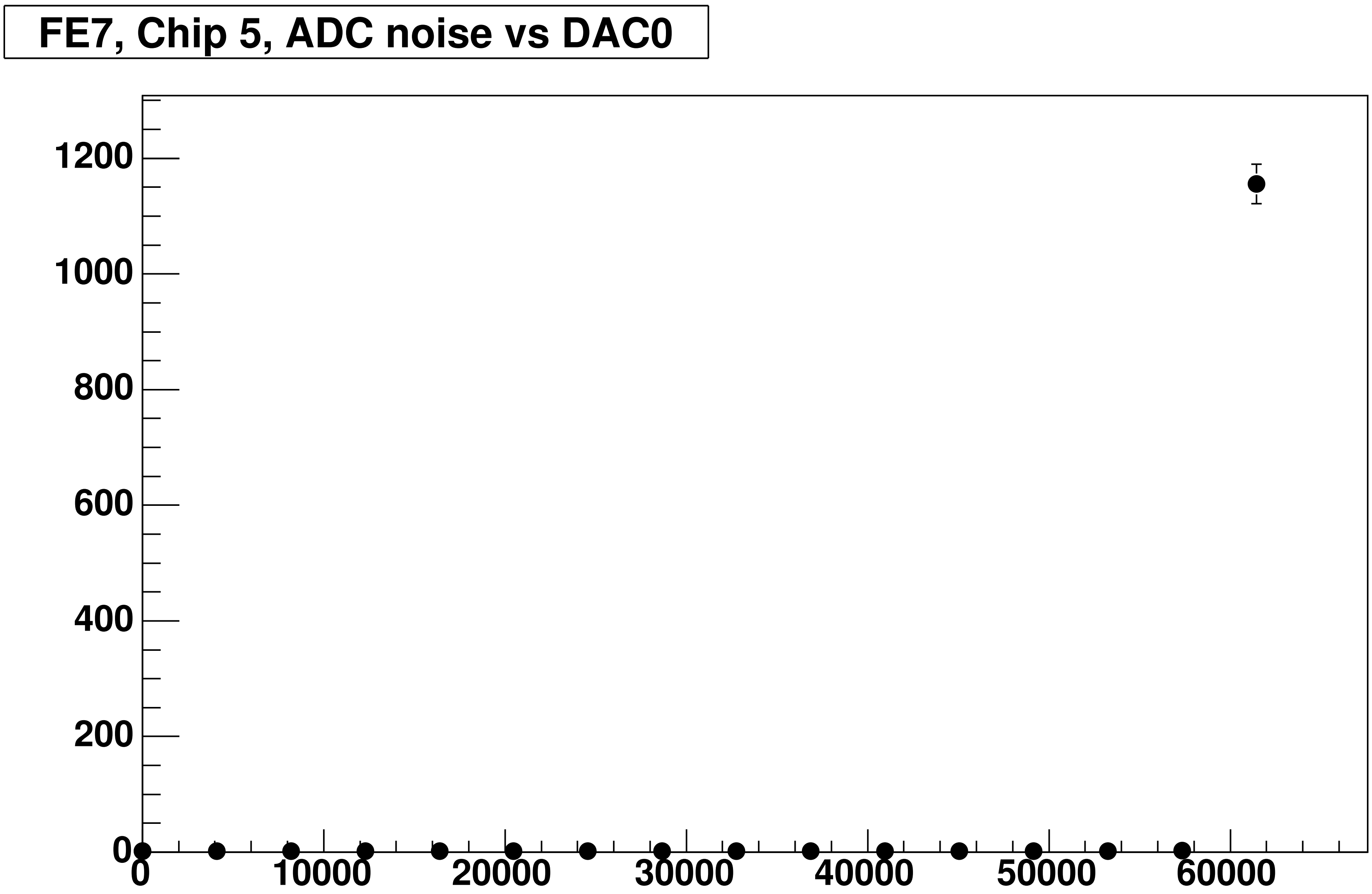
FE7, Chip 4, ADC noise vs DAC1

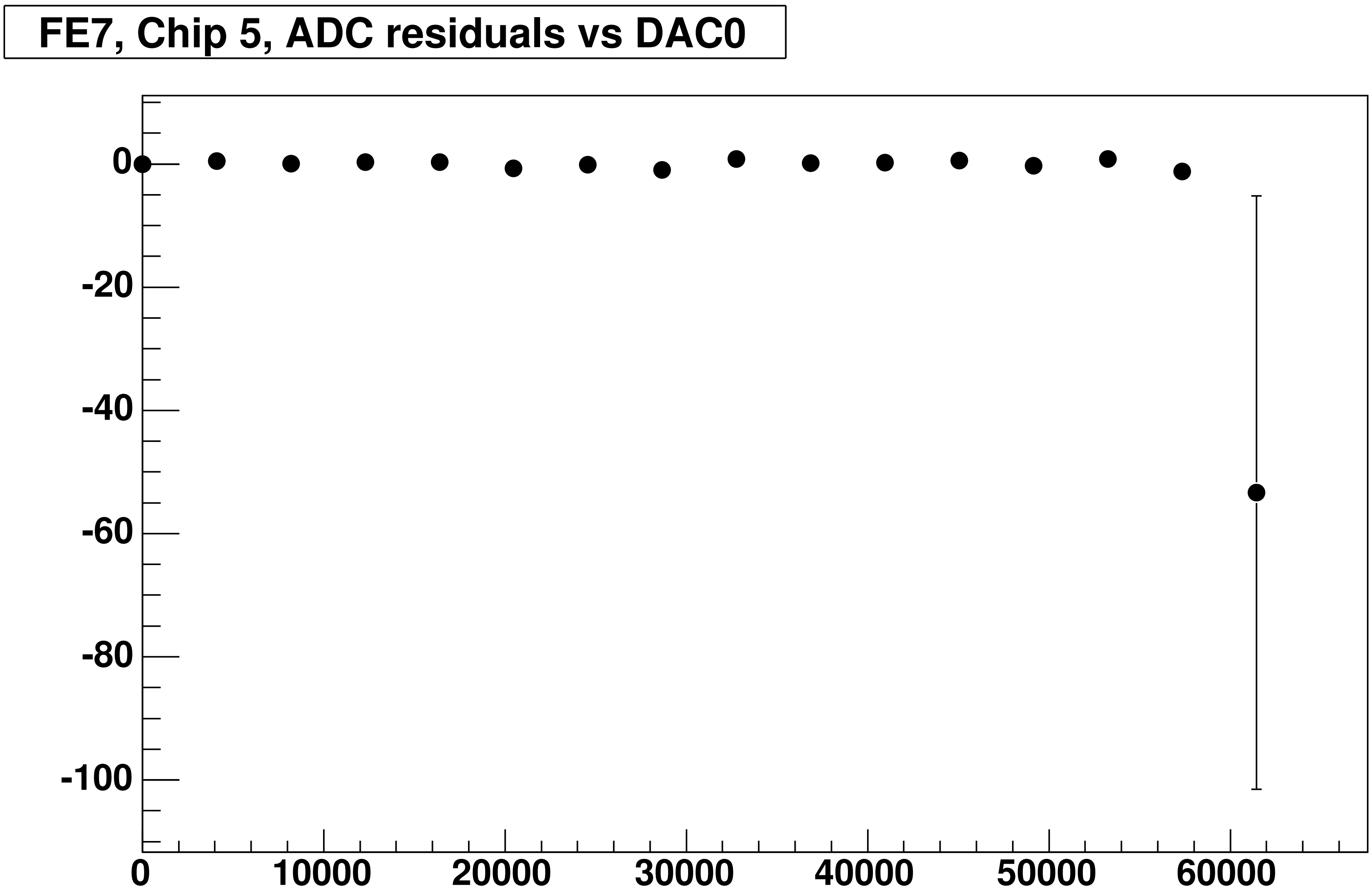



FE7, Chip 4, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

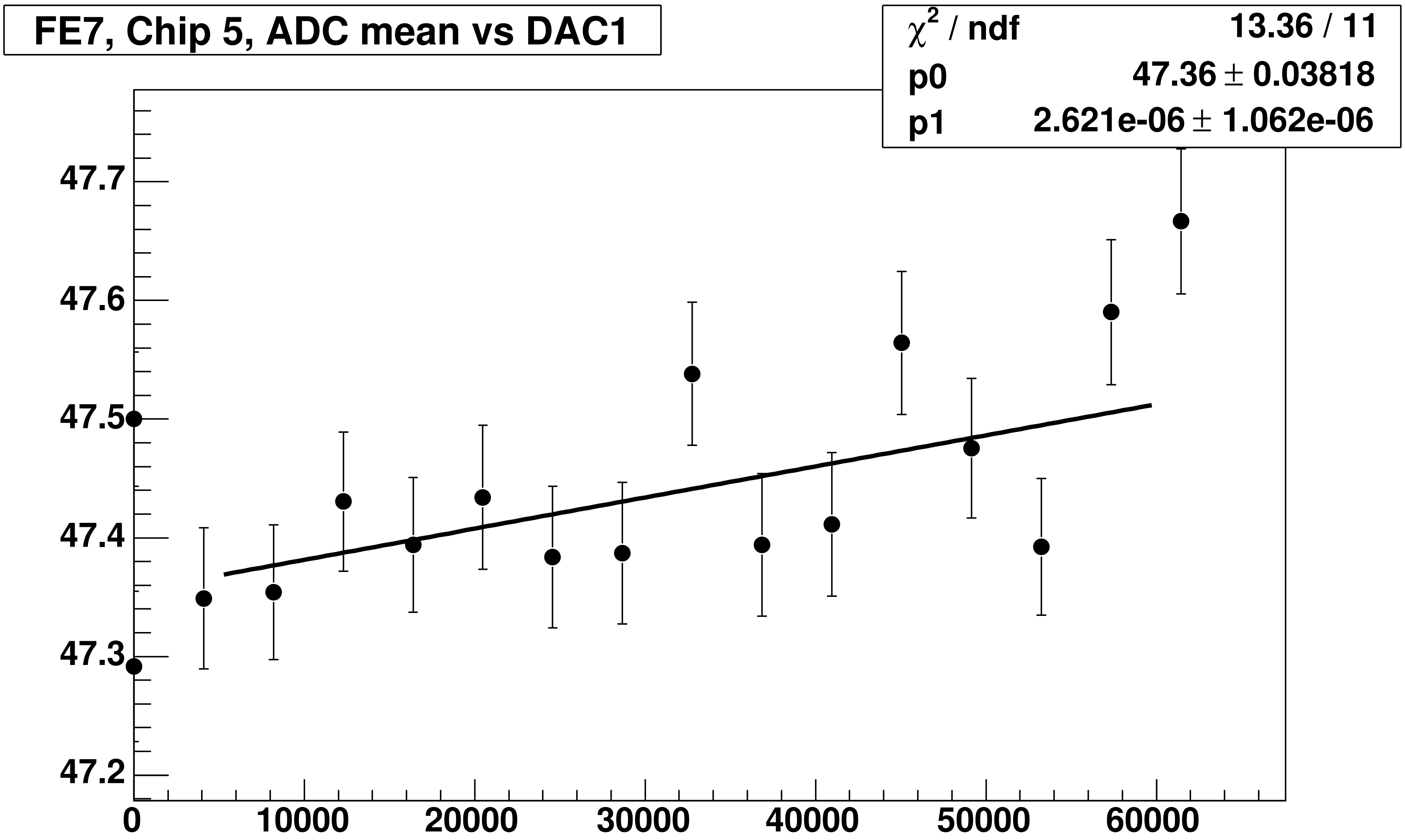


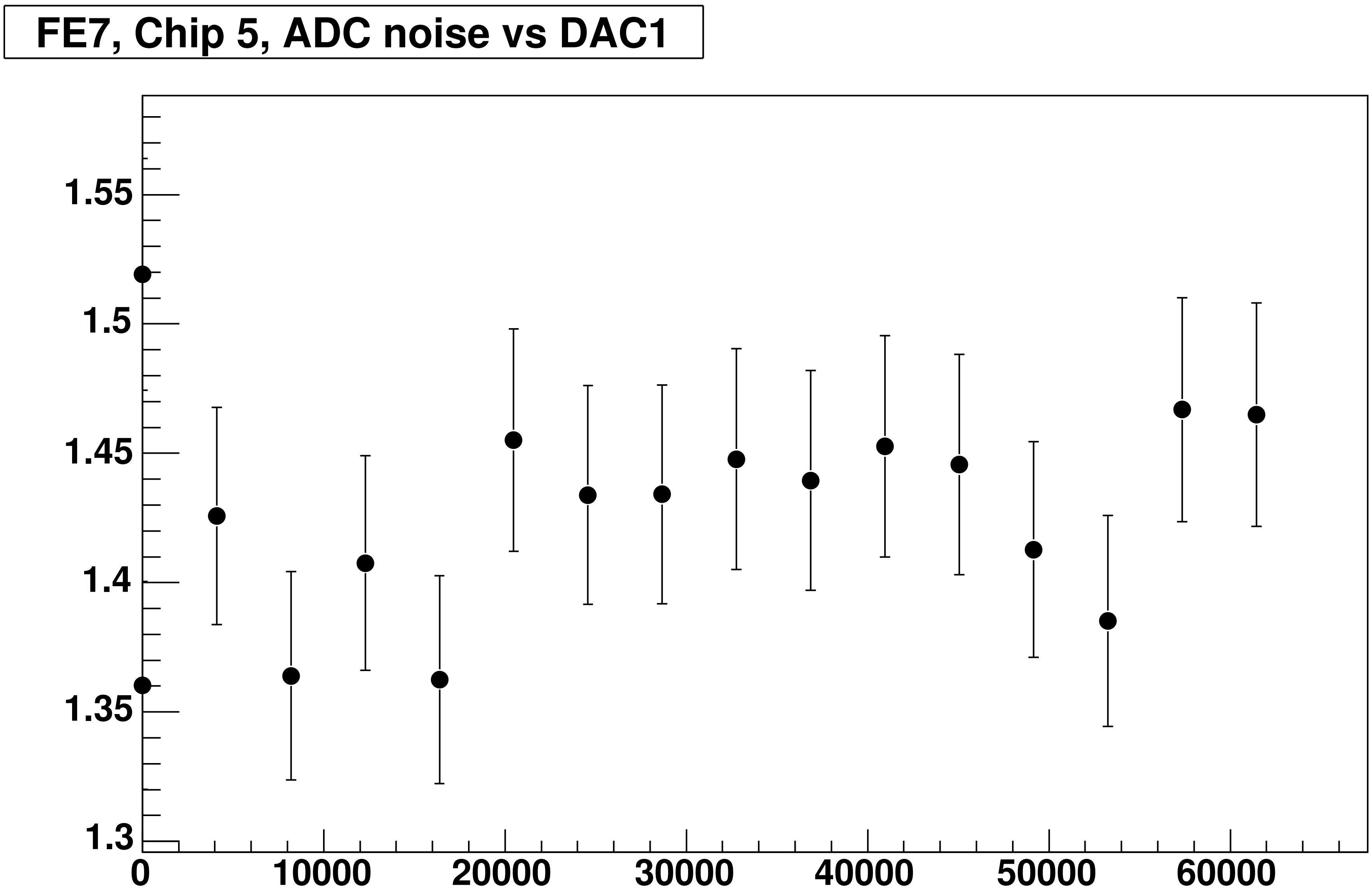
FE7, Chip 5, ADC mean vs DAC0
χ^2 / ndf 784.5 / 11
p0 46.93 ± 0.04186
p1 0.4507 ± 1.332e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

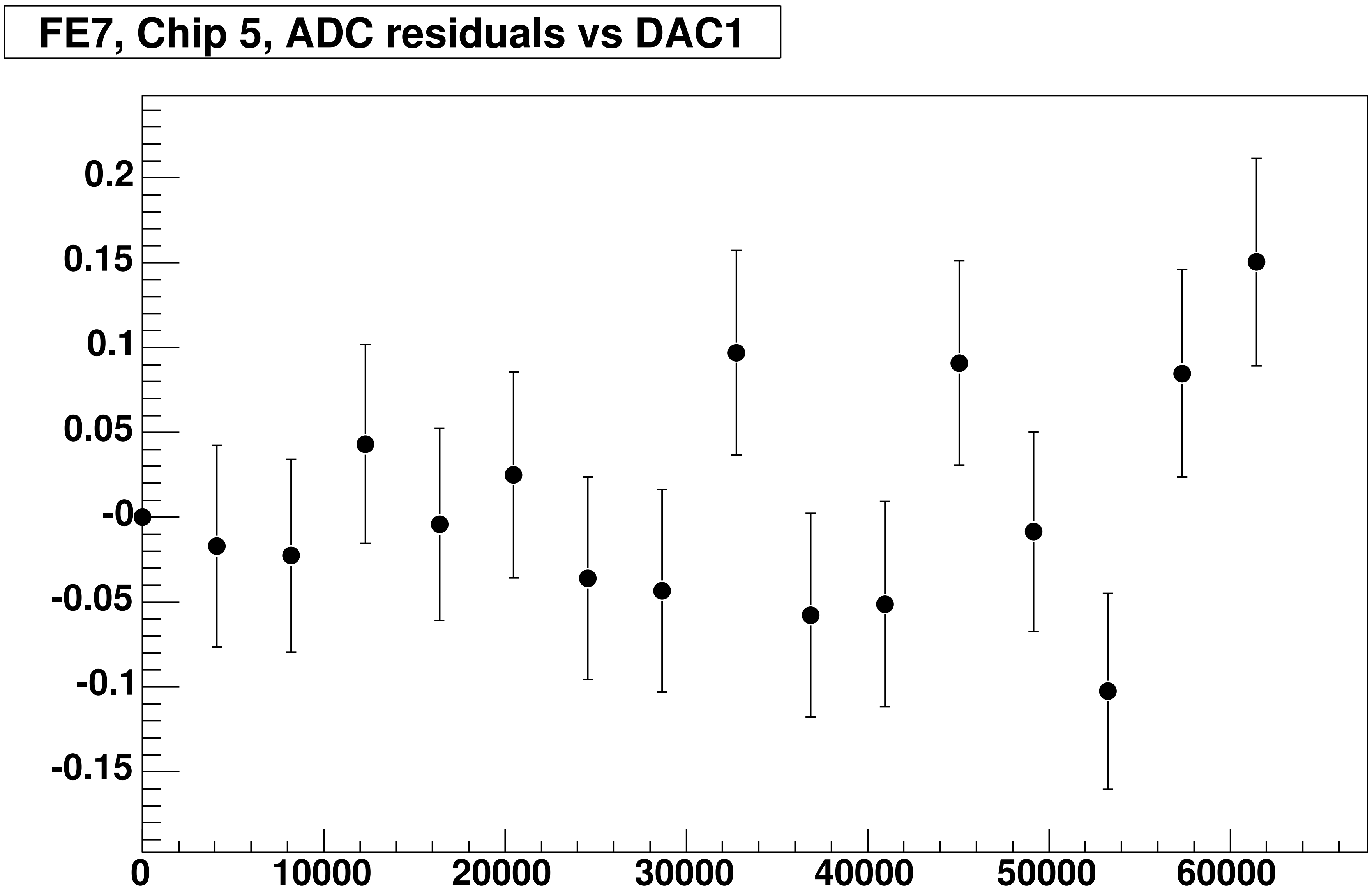

FE7, Chip 5, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

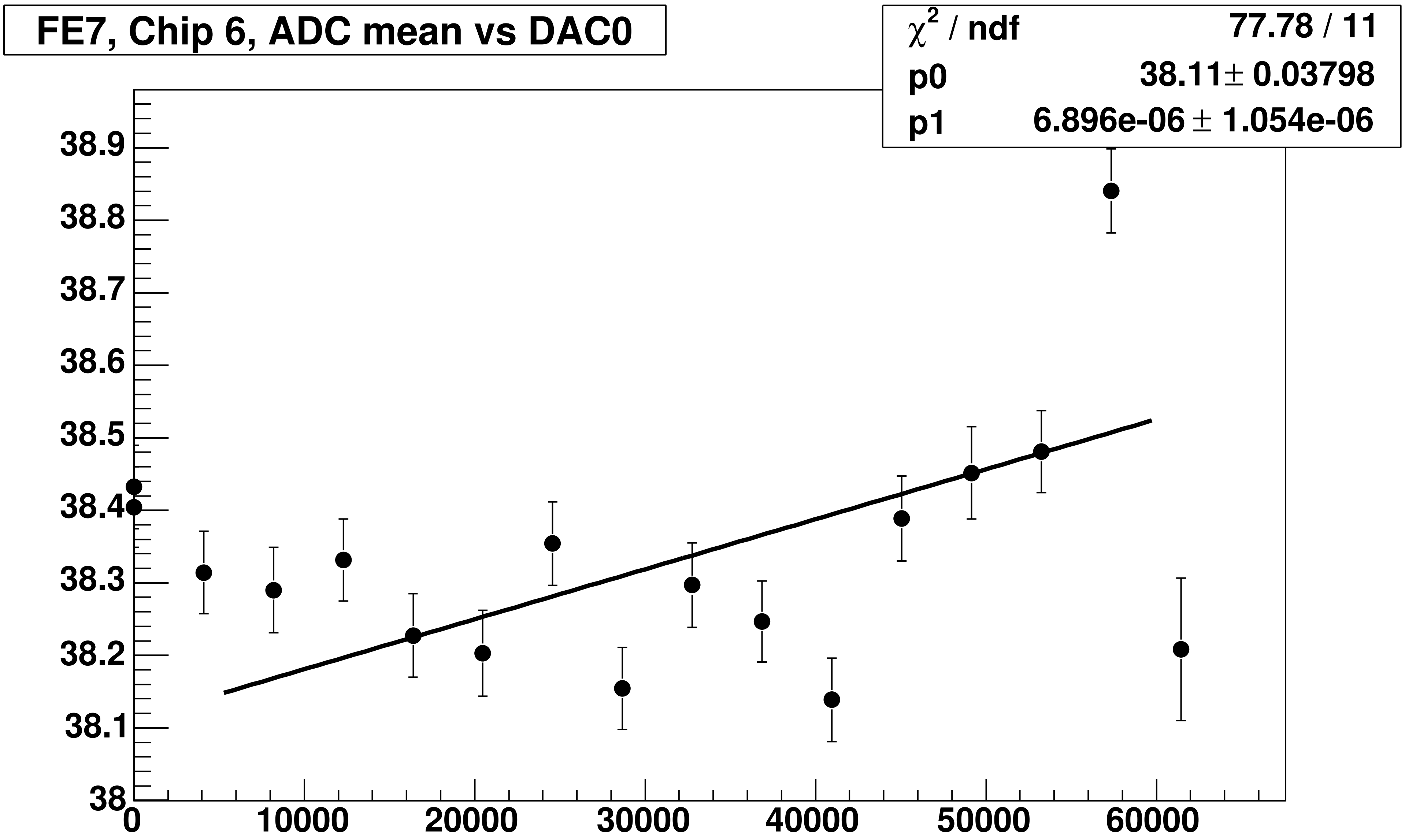


FE7, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

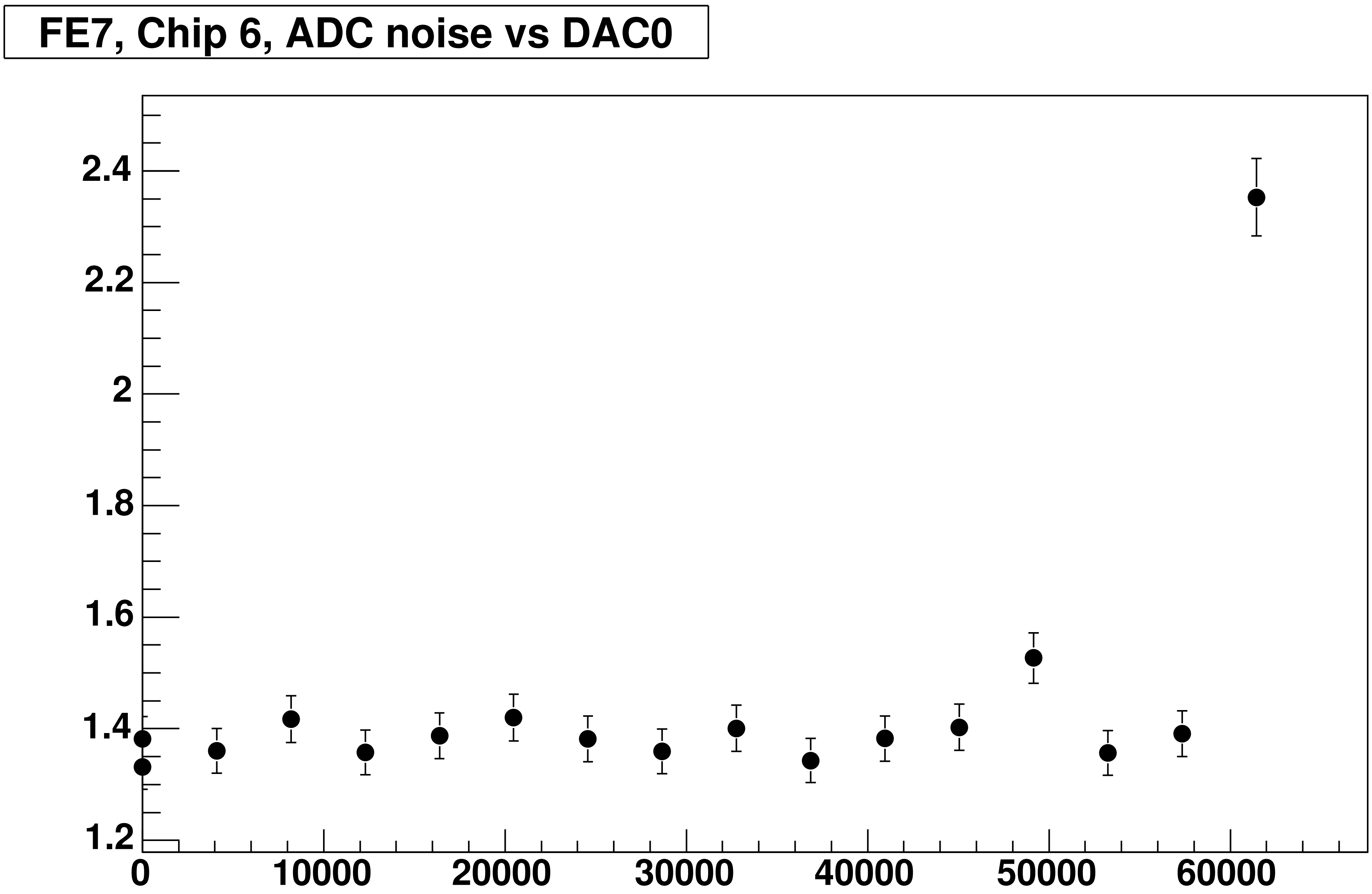

FE7, Chip 5, ADC mean vs DAC1
χ^2 / ndf 13.36 / 11
p0 47.36 ± 0.03818
p1 2.621e-06 ± 1.062e-06
47.2
47.3
47.4
47.5
47.6
47.7
0
10000
20000
30000
40000
50000
60000


FE7, 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

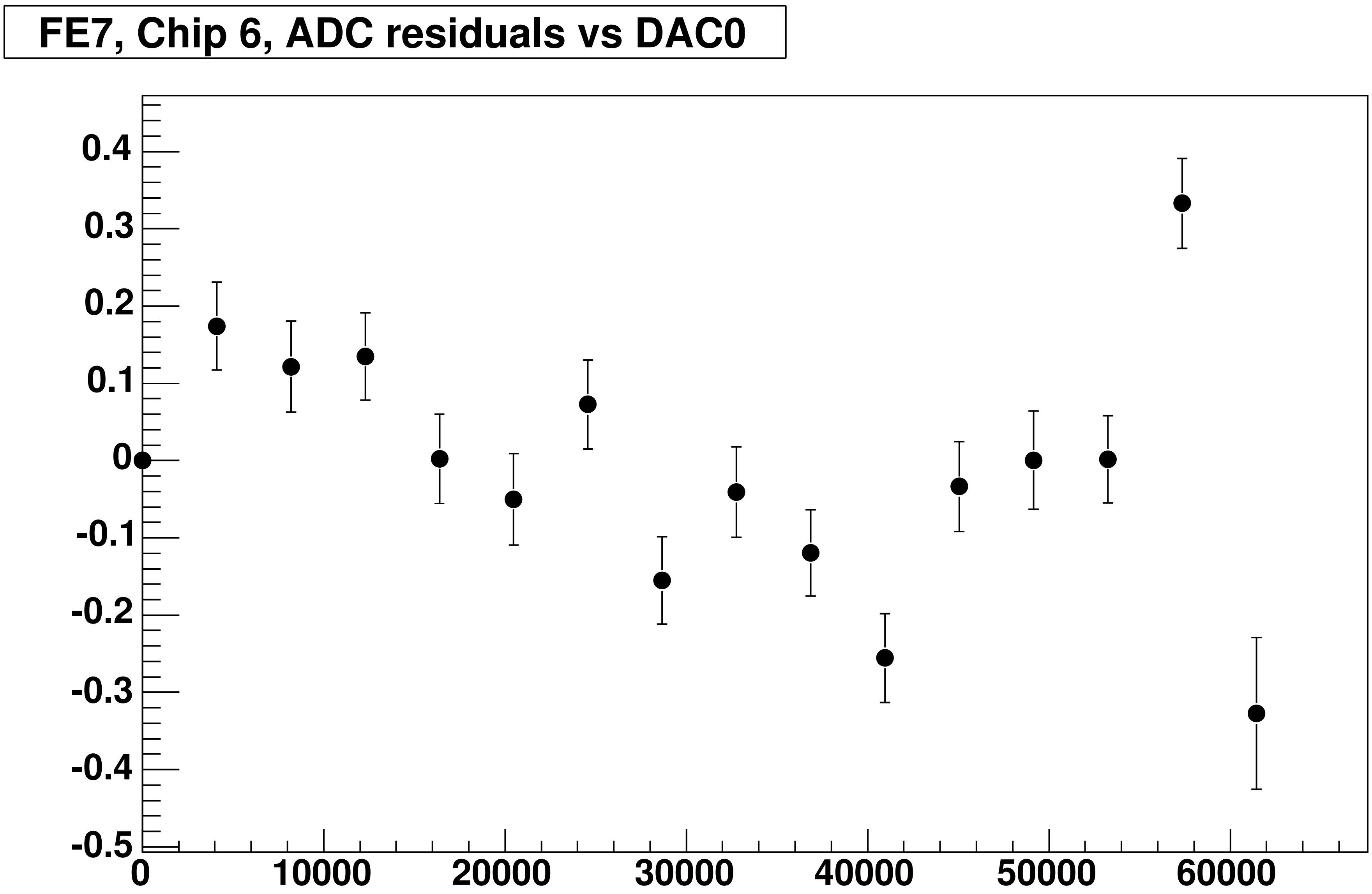

FE7, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

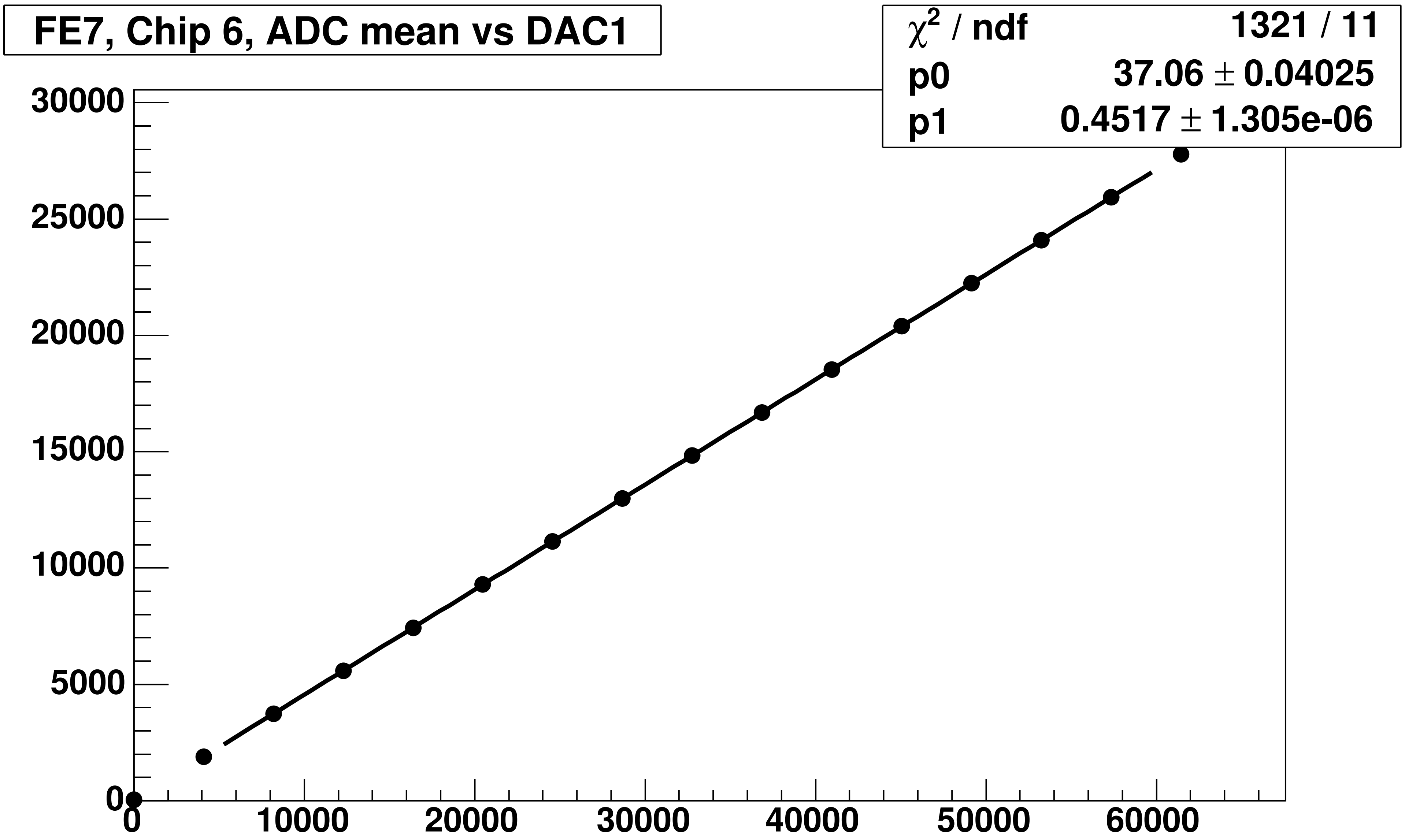


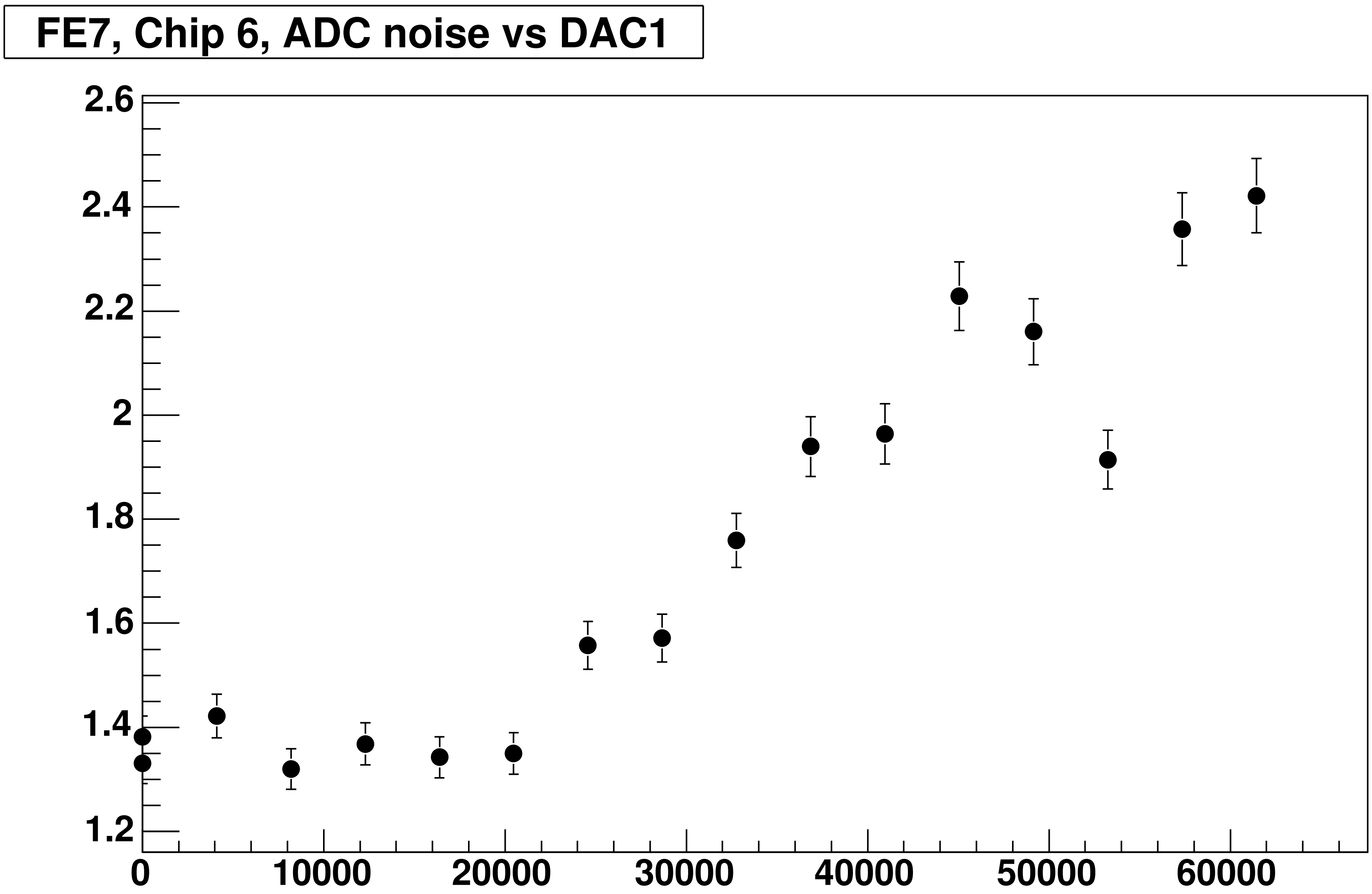
FE7, Chip 6, ADC mean vs DAC0
χ² / ndf 77.78 / 11
p0 38.11± 0.03798
p1 6.896e-06 ± 1.054e-06
38.9
38.8
38.7
38.6
38.5
38.4
38.3
38.2
38.1
38
0
10000
20000
30000
40000
50000
60000

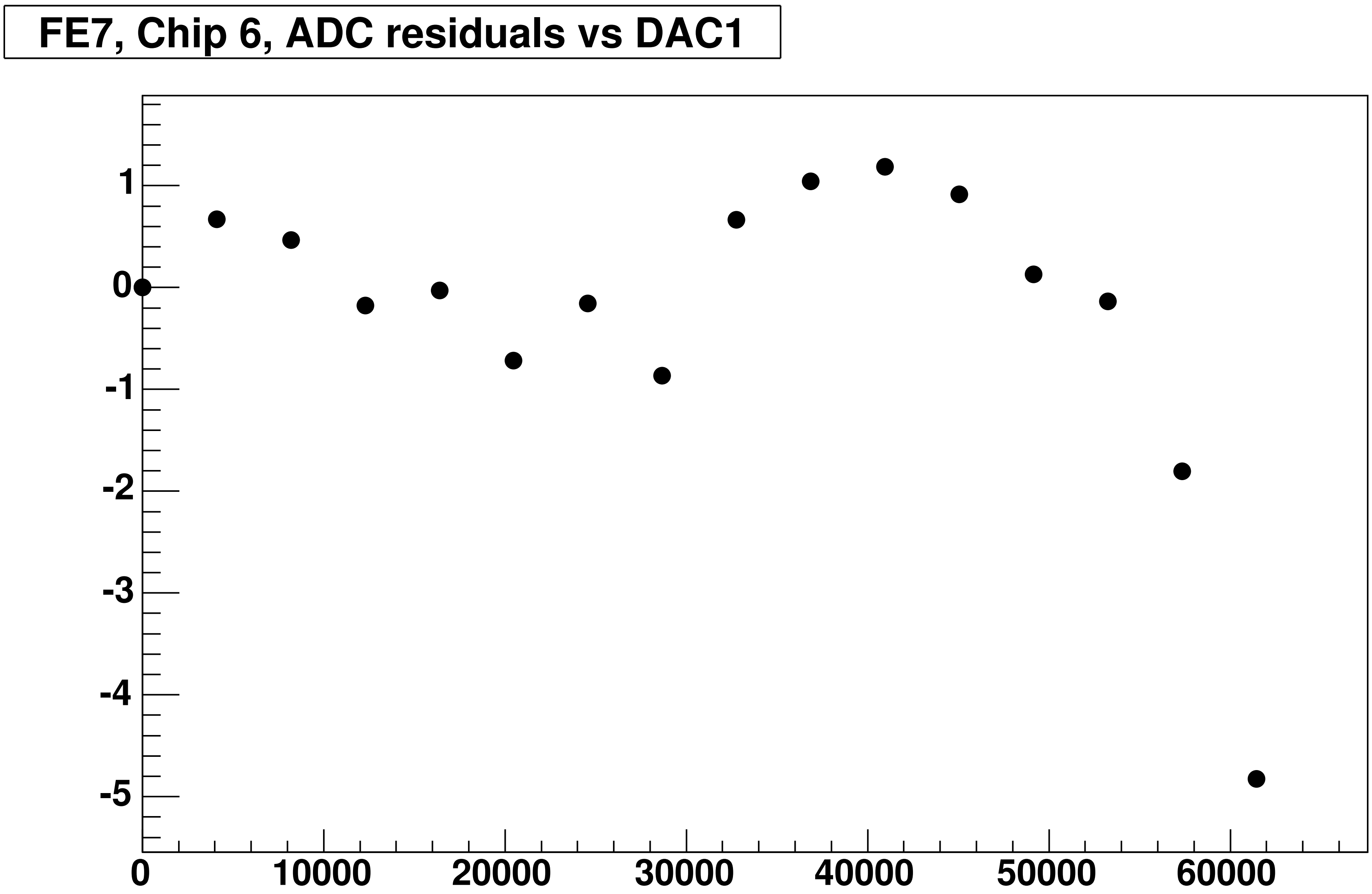


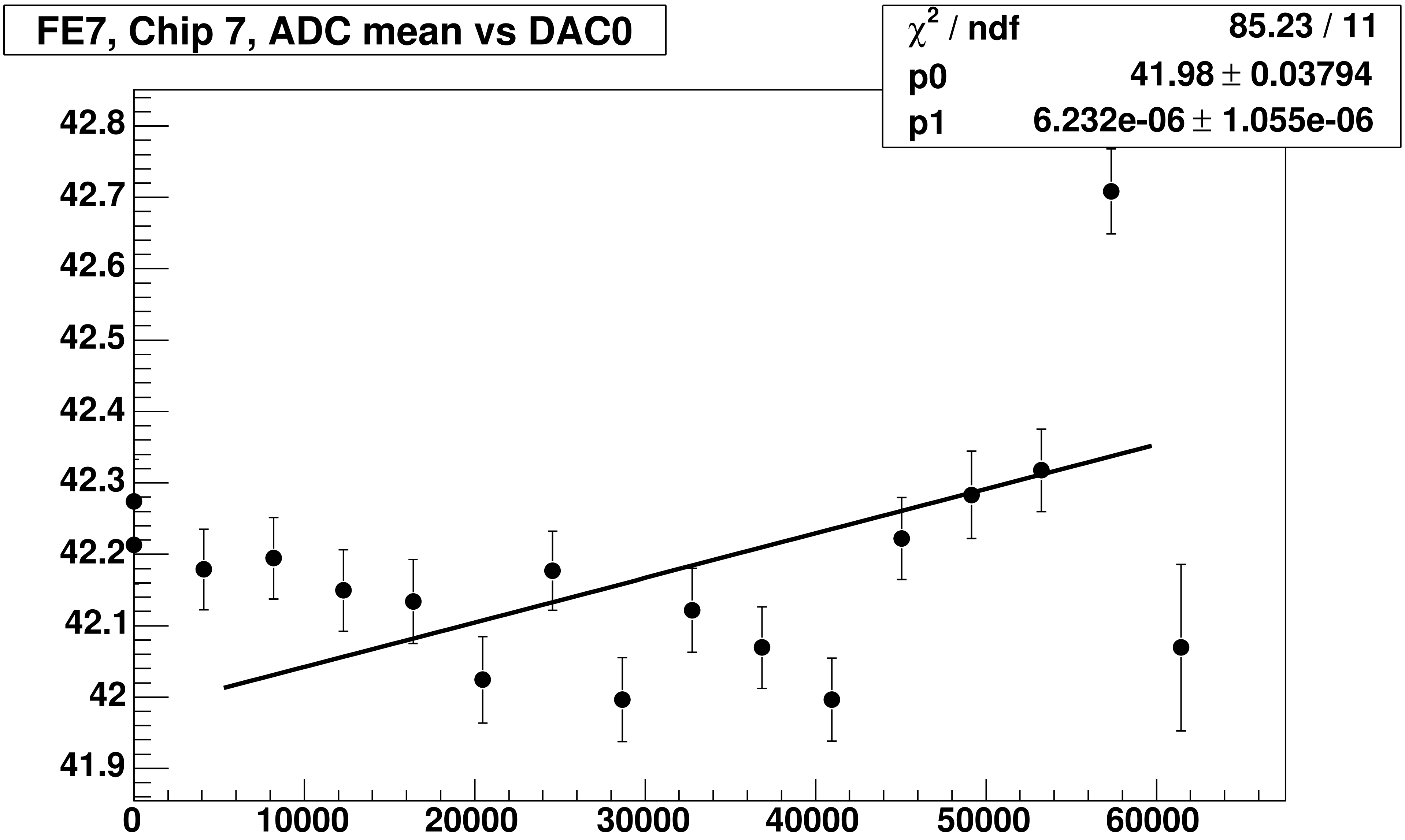
FE7, Chip 6, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 6, ADC residuals vs DAC0
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

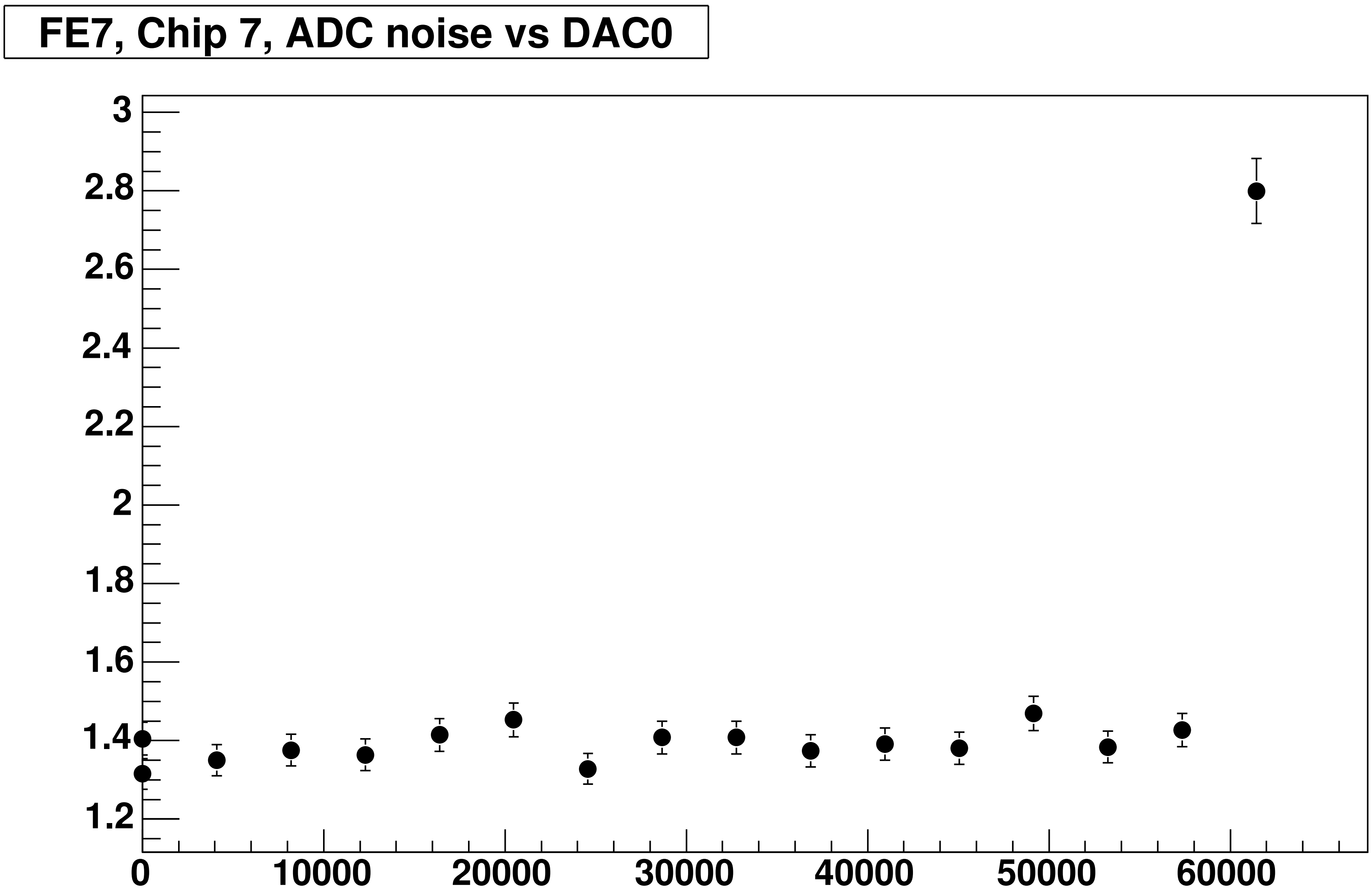

FE7, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1321 / 11
p0 37.06 ± 0.04025
p1 0.4517 ± 1.305e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

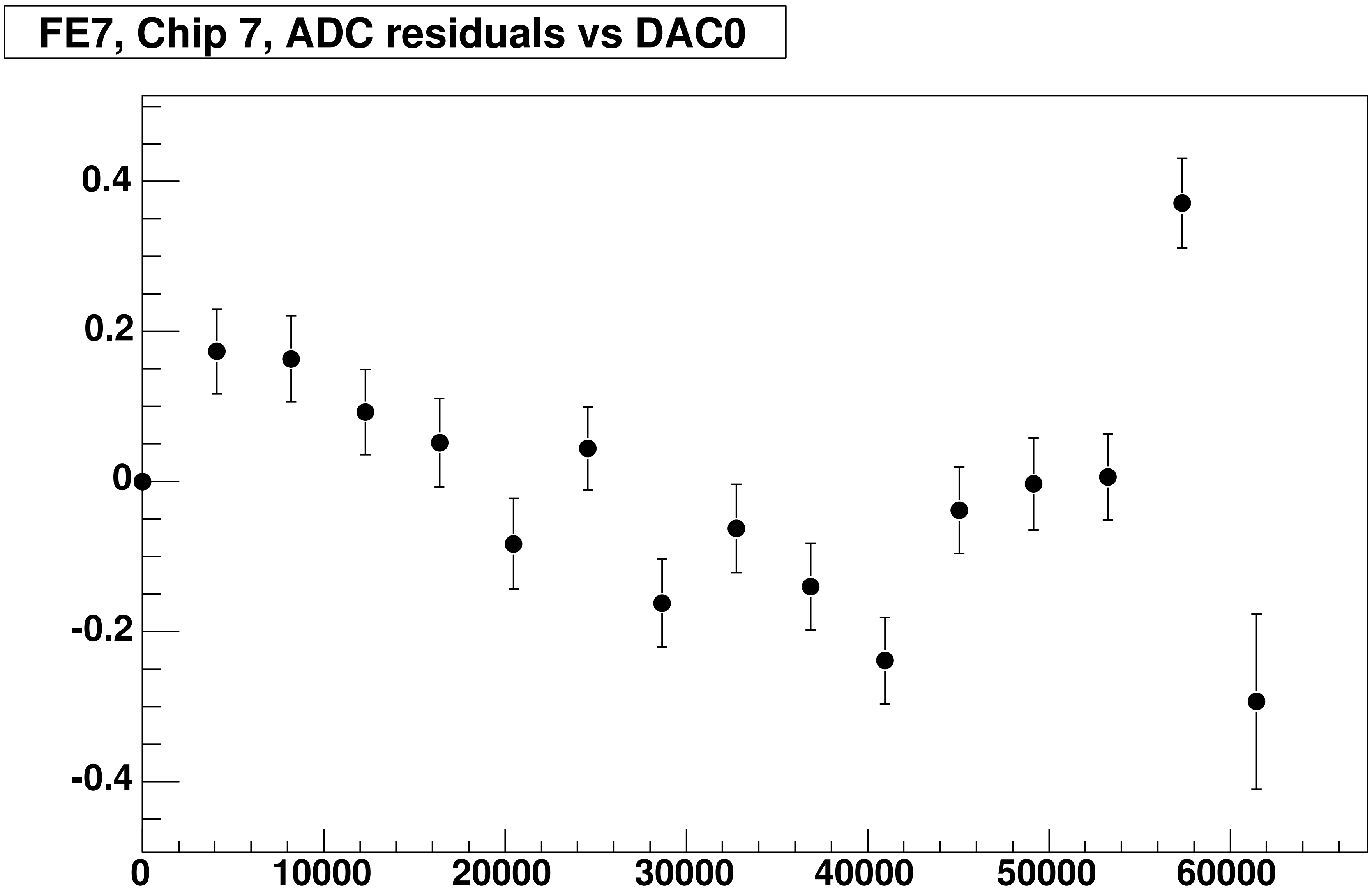

FE7, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

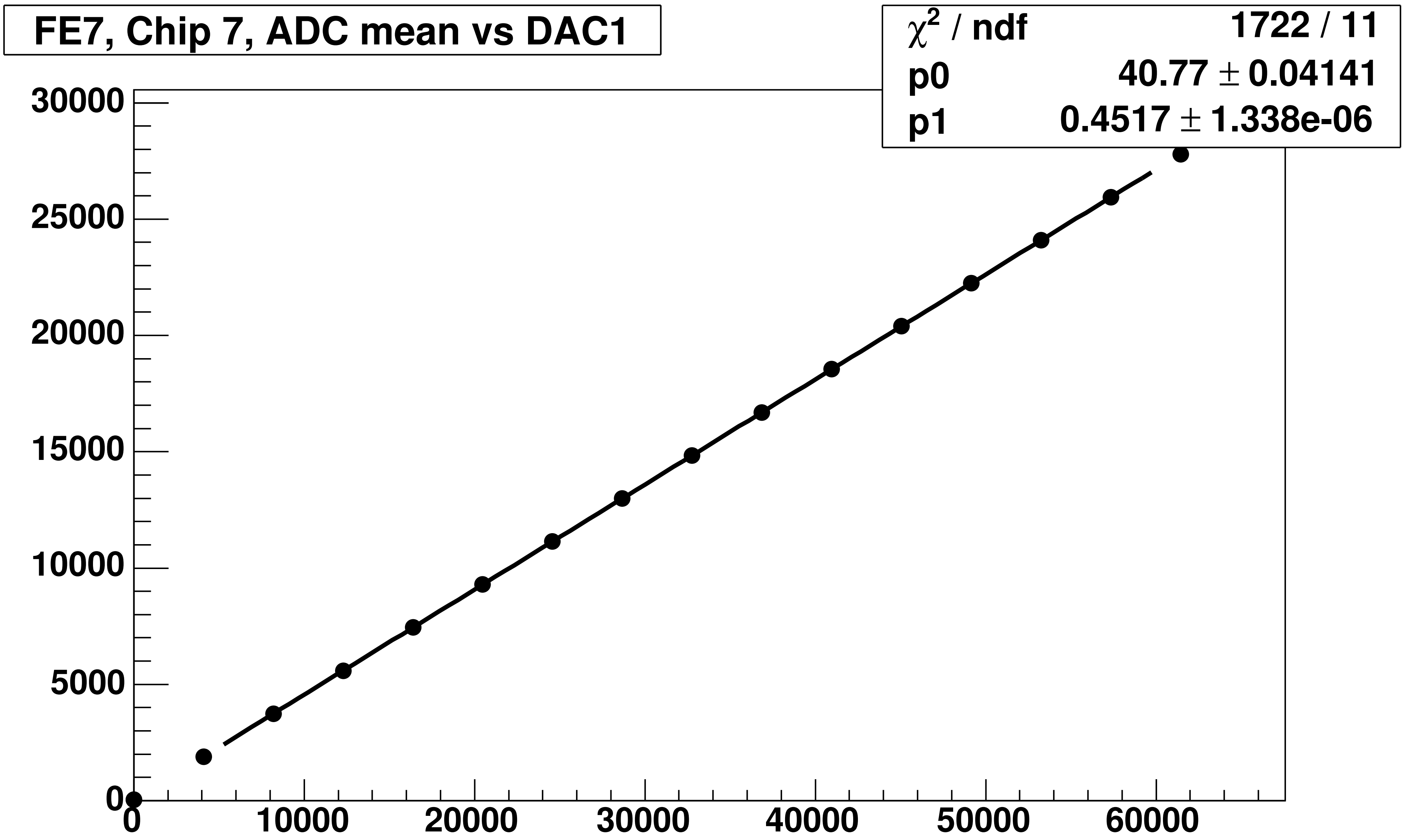

FE7, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

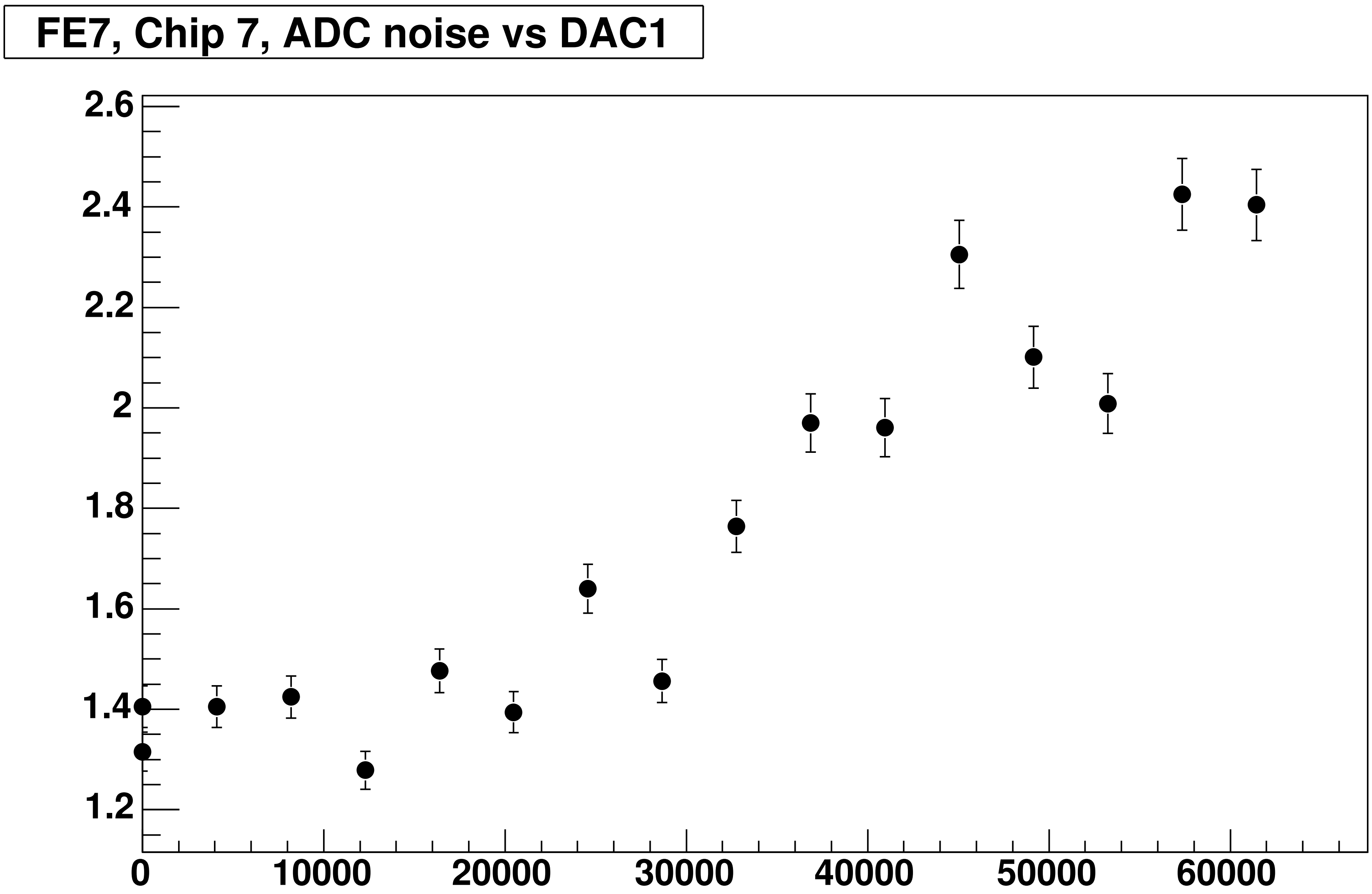


FE7, Chip 7, ADC mean vs DAC0
χ2 / ndf 85.23 / 11
p0 41.98 ± 0.03794
p1 6.232e-06 ± 1.055e-06
42.8
42.7
42.6
42.5
42.4
42.3
42.2
42.1
42
41.9
0
10000
20000
30000
40000
50000
60000

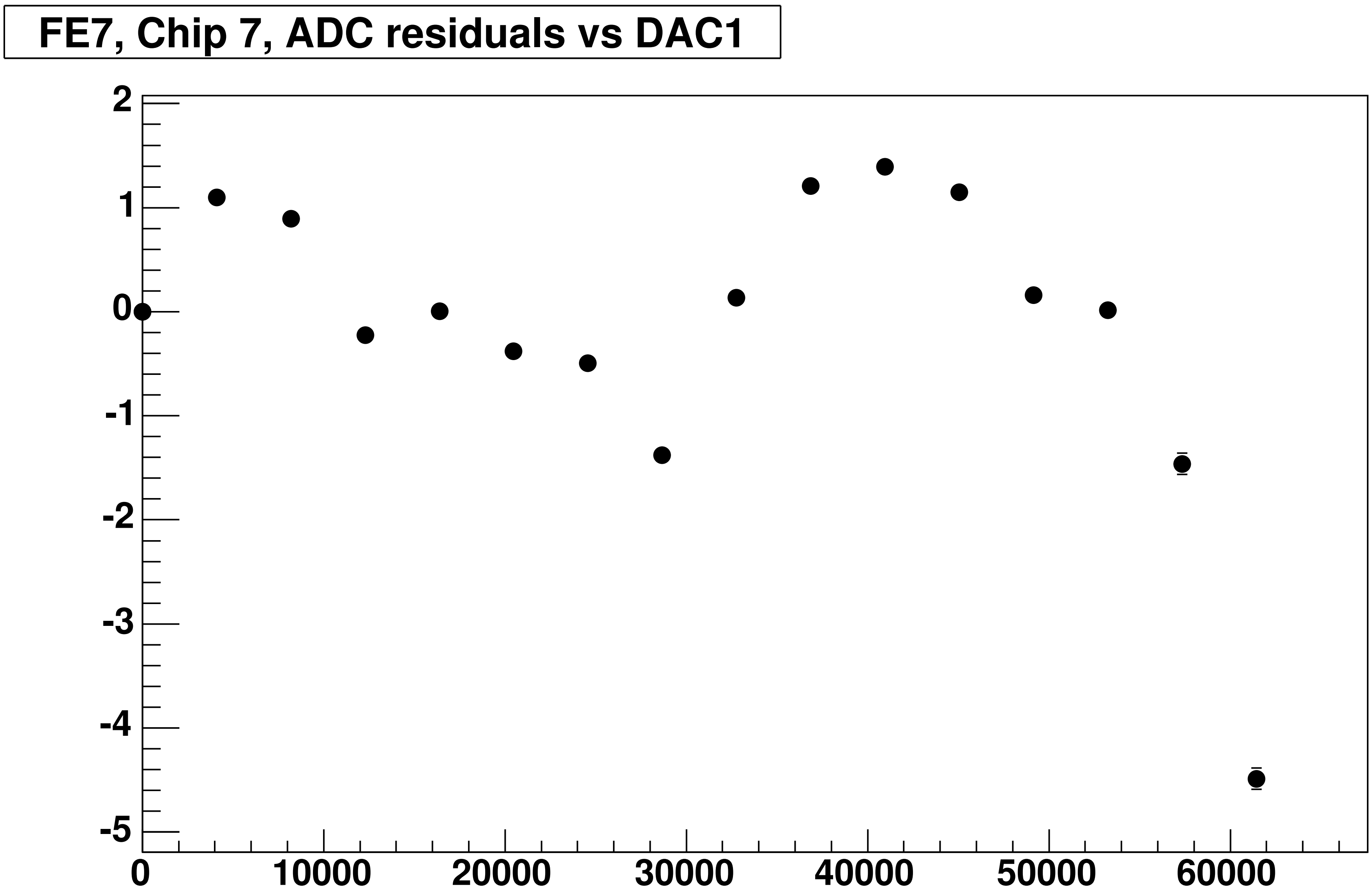

FE7, Chip 7, ADC noise vs DAC0
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

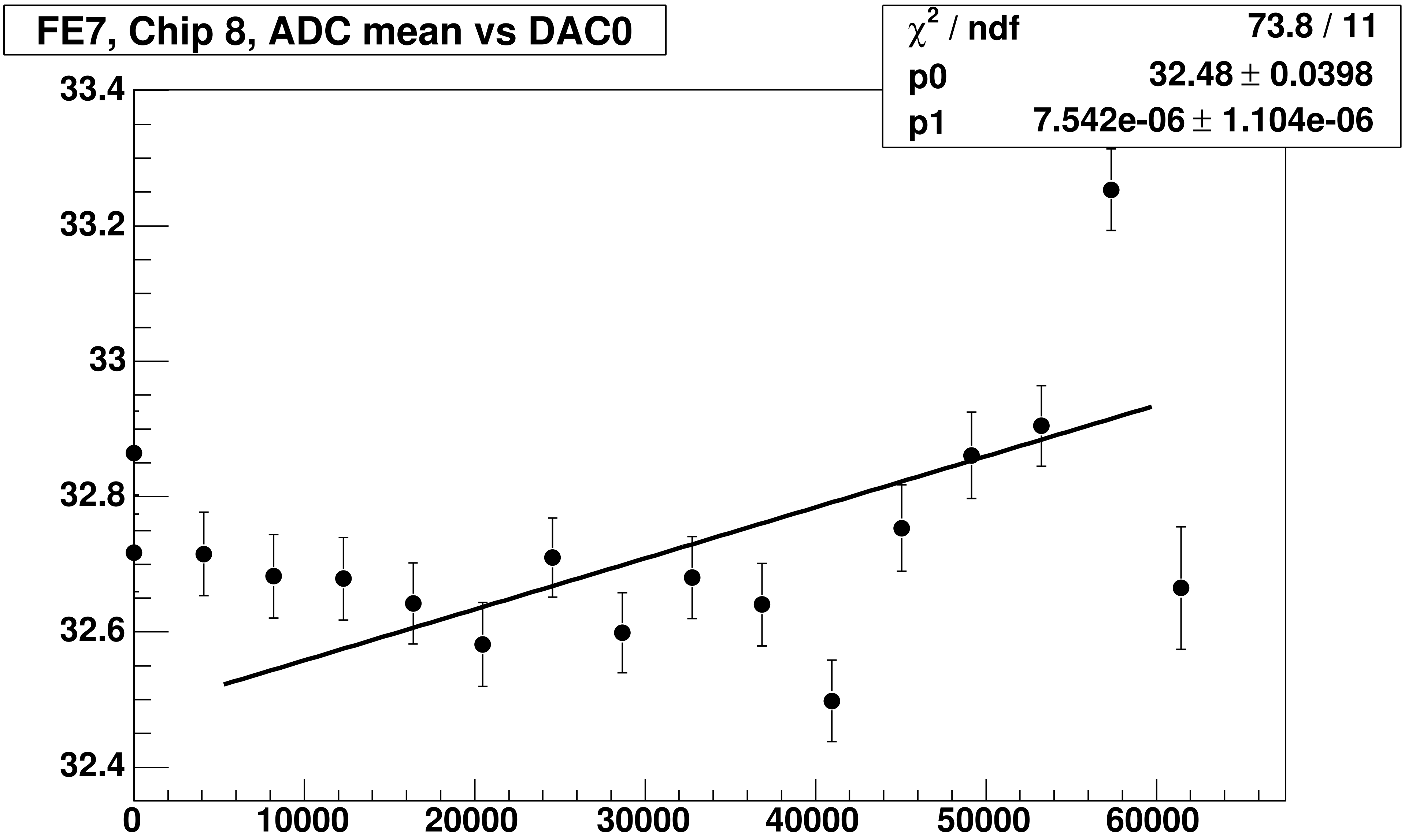

FE7, Chip 7, ADC residuals vs DAC0
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

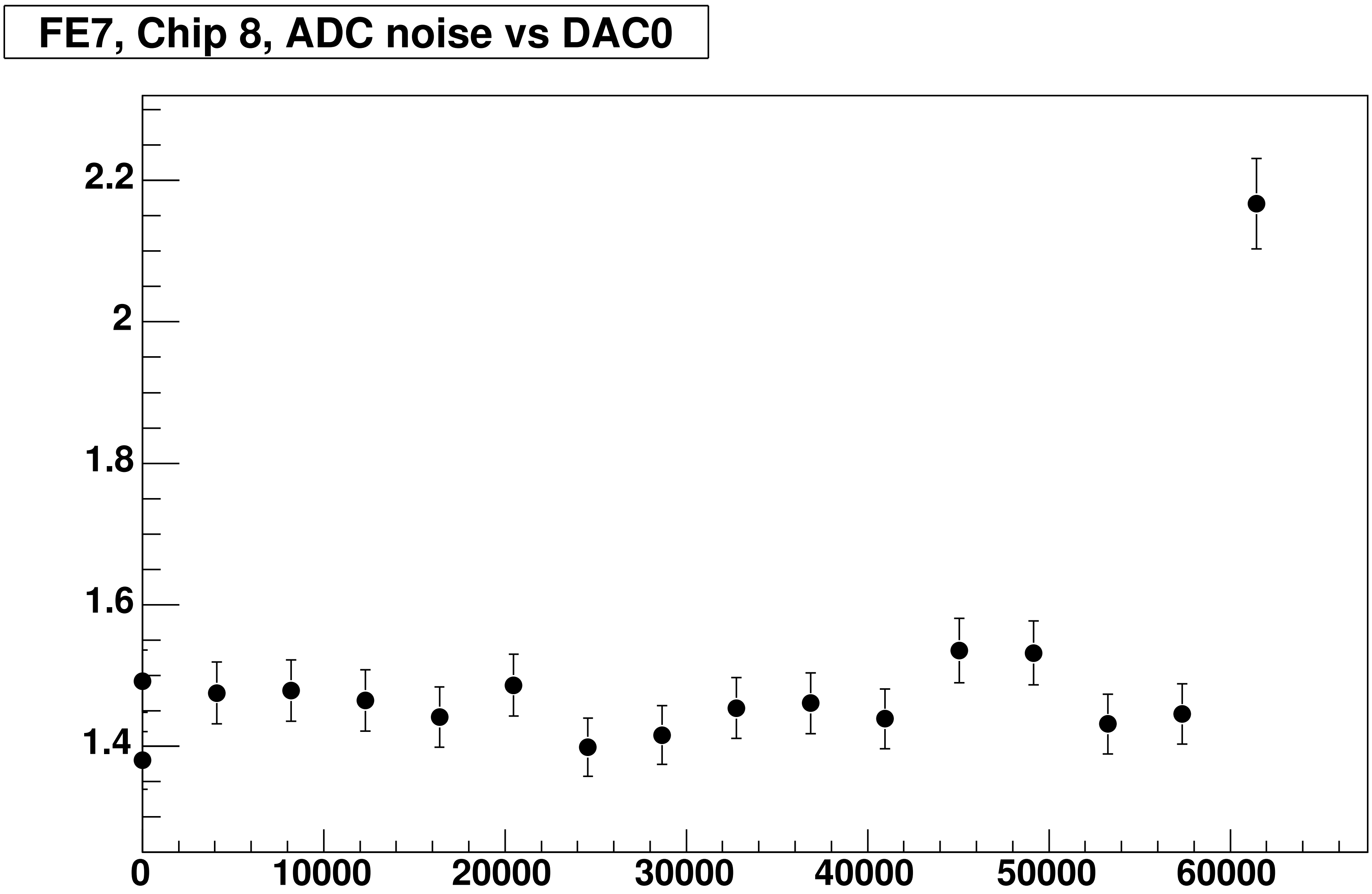

FE7, Chip 7, ADC mean vs DAC1
χ2 / ndf 1722 / 11
p0 40.77 ± 0.04141
p1 0.4517 ± 1.338e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

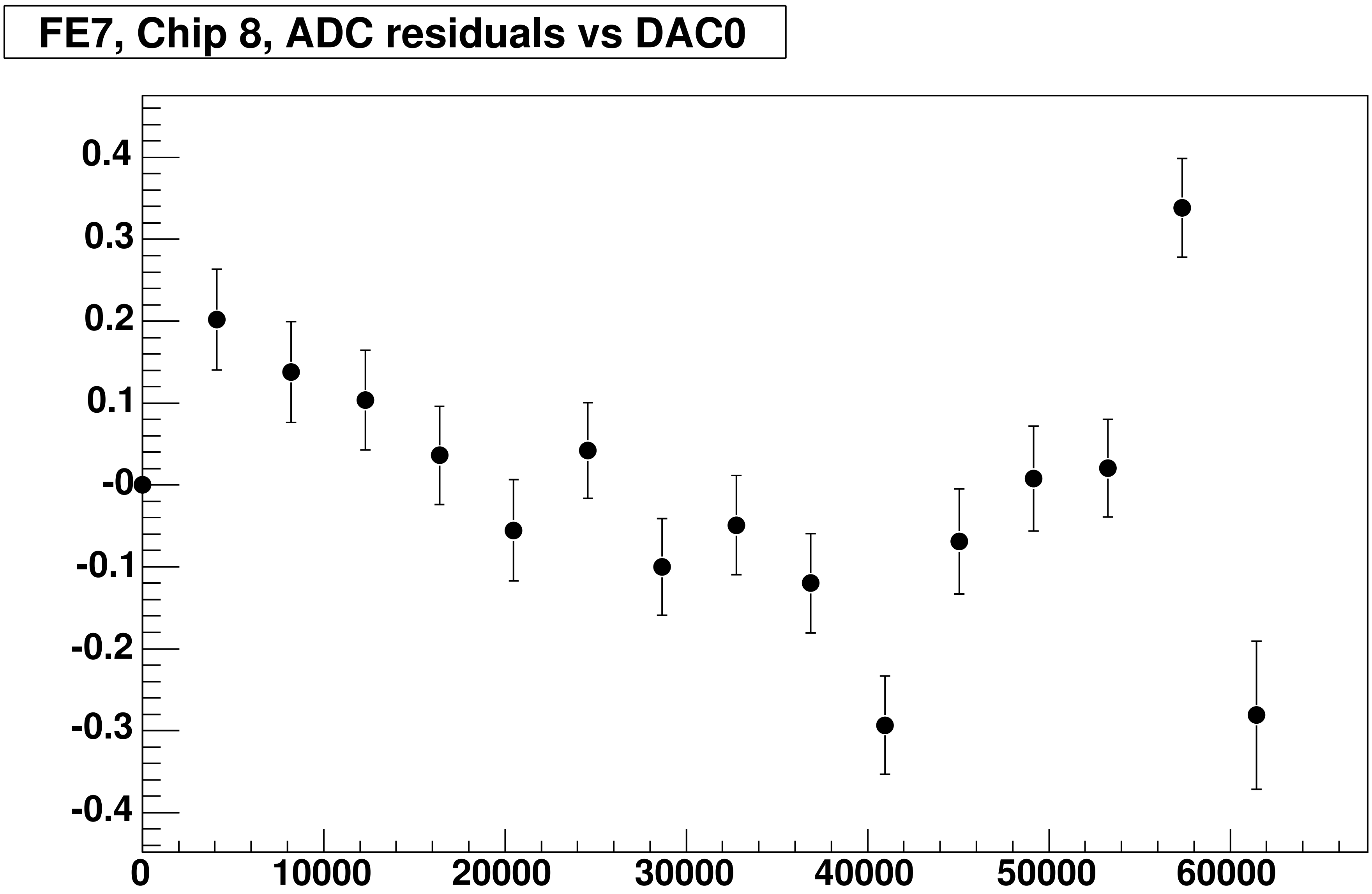


FE7, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

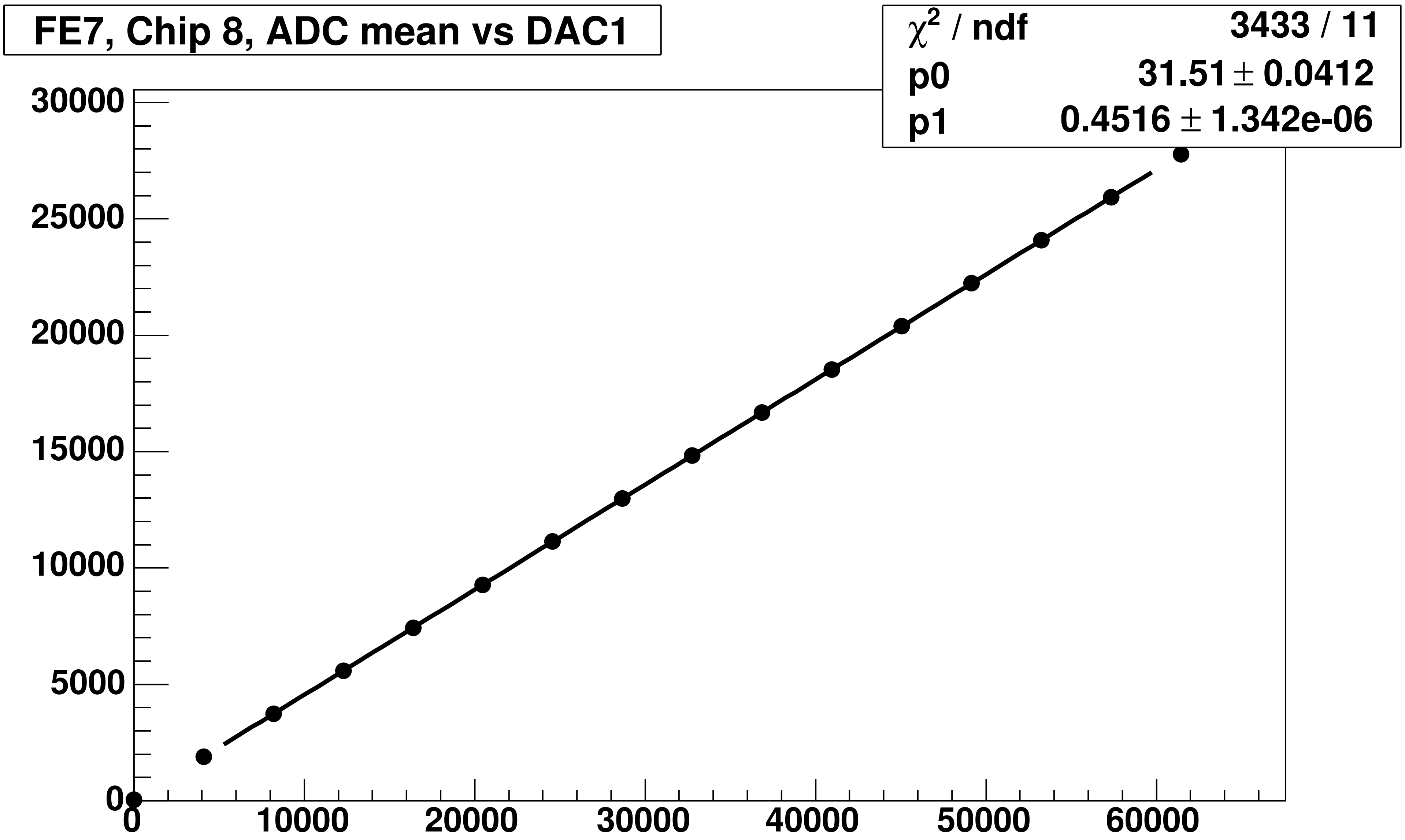

FE7, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE7, Chip 8, ADC mean vs DAC0
χ² / ndf 73.8 / 11
p0 32.48 ± 0.0398
p1 7.542e-06 ± 1.104e-06
33.4
33.2
33
32.8
32.6
32.4
0
10000
20000
30000
40000
50000
60000

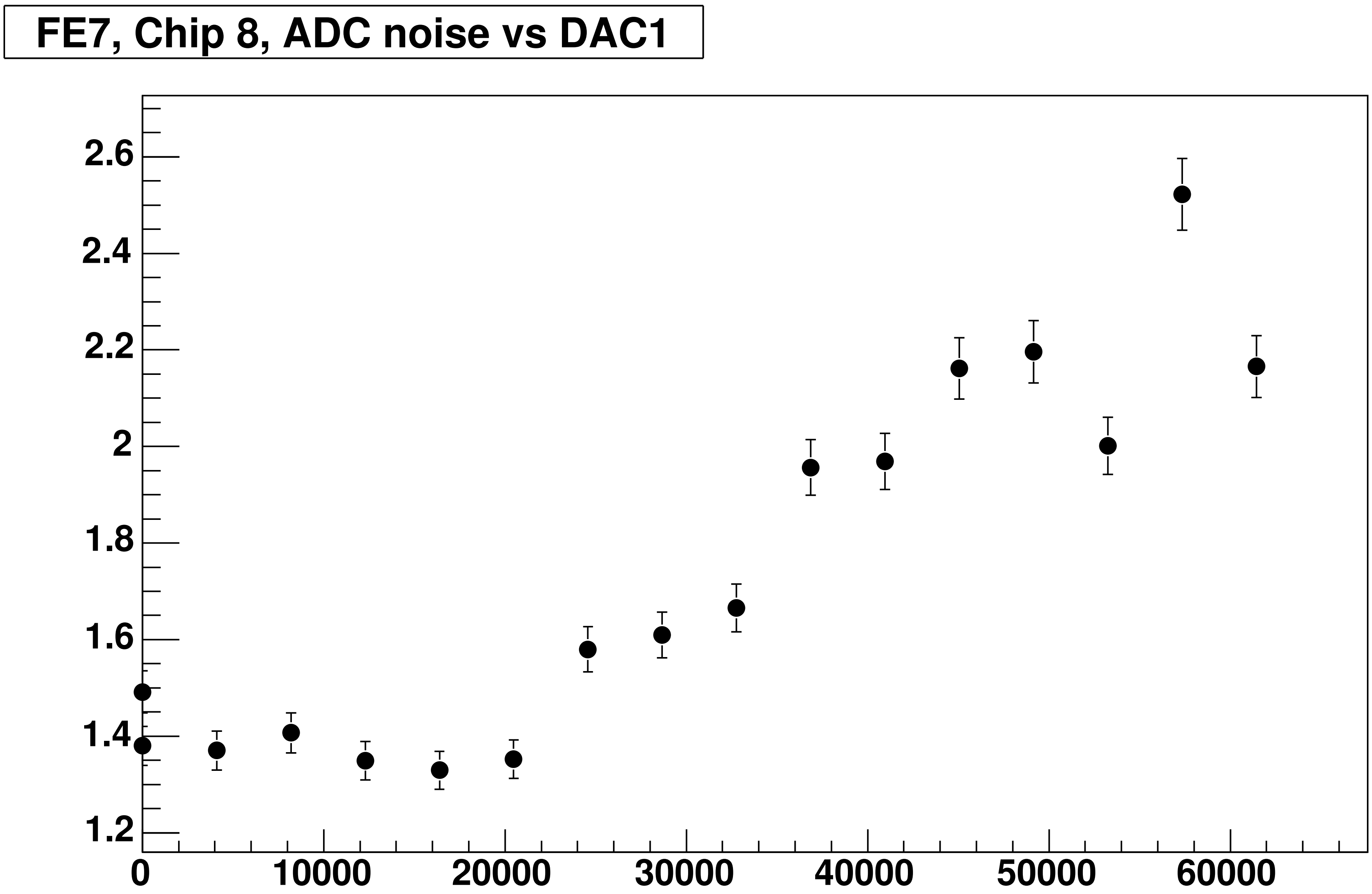

FE7, Chip 8, ADC noise vs DAC0
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

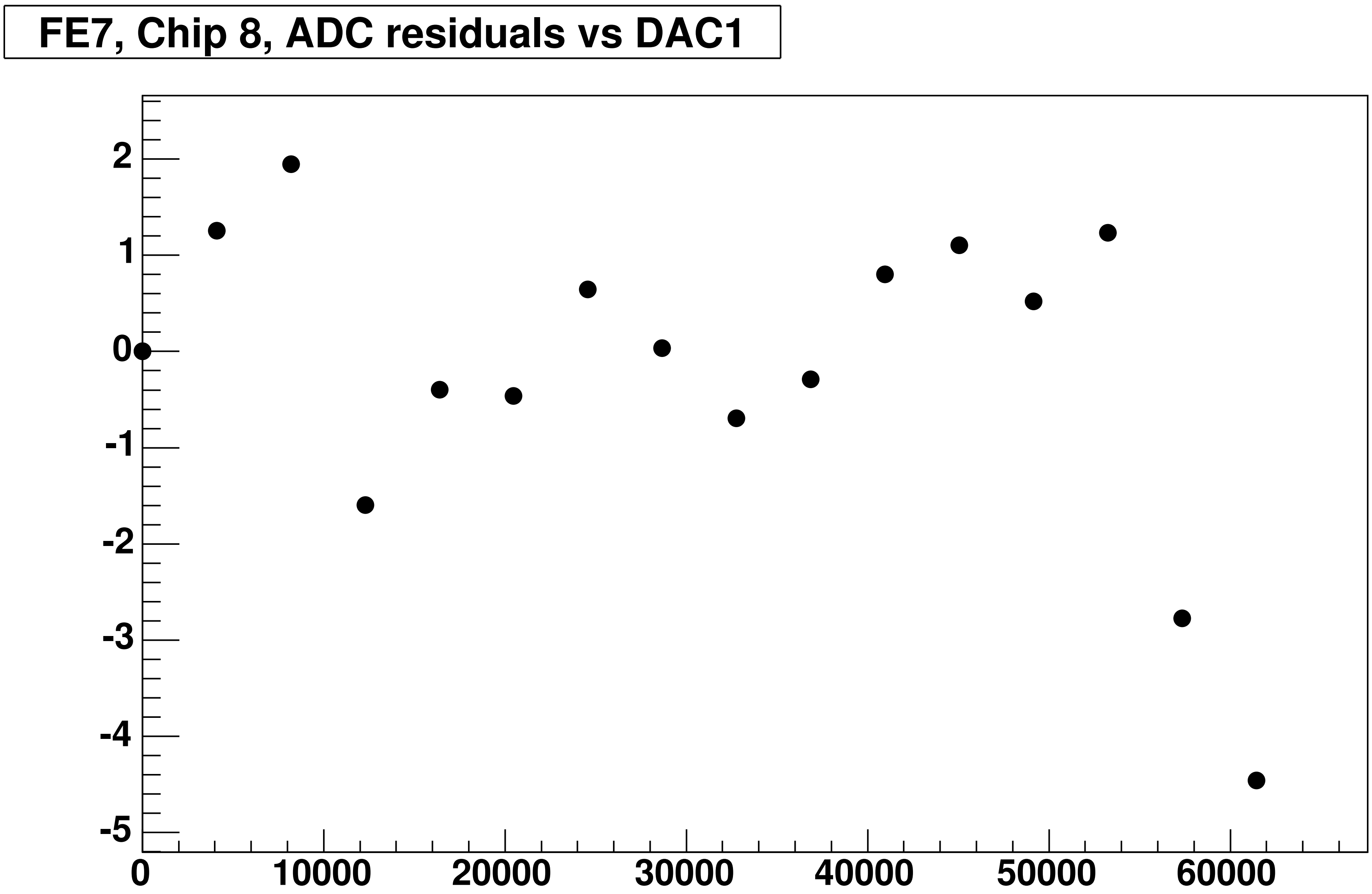


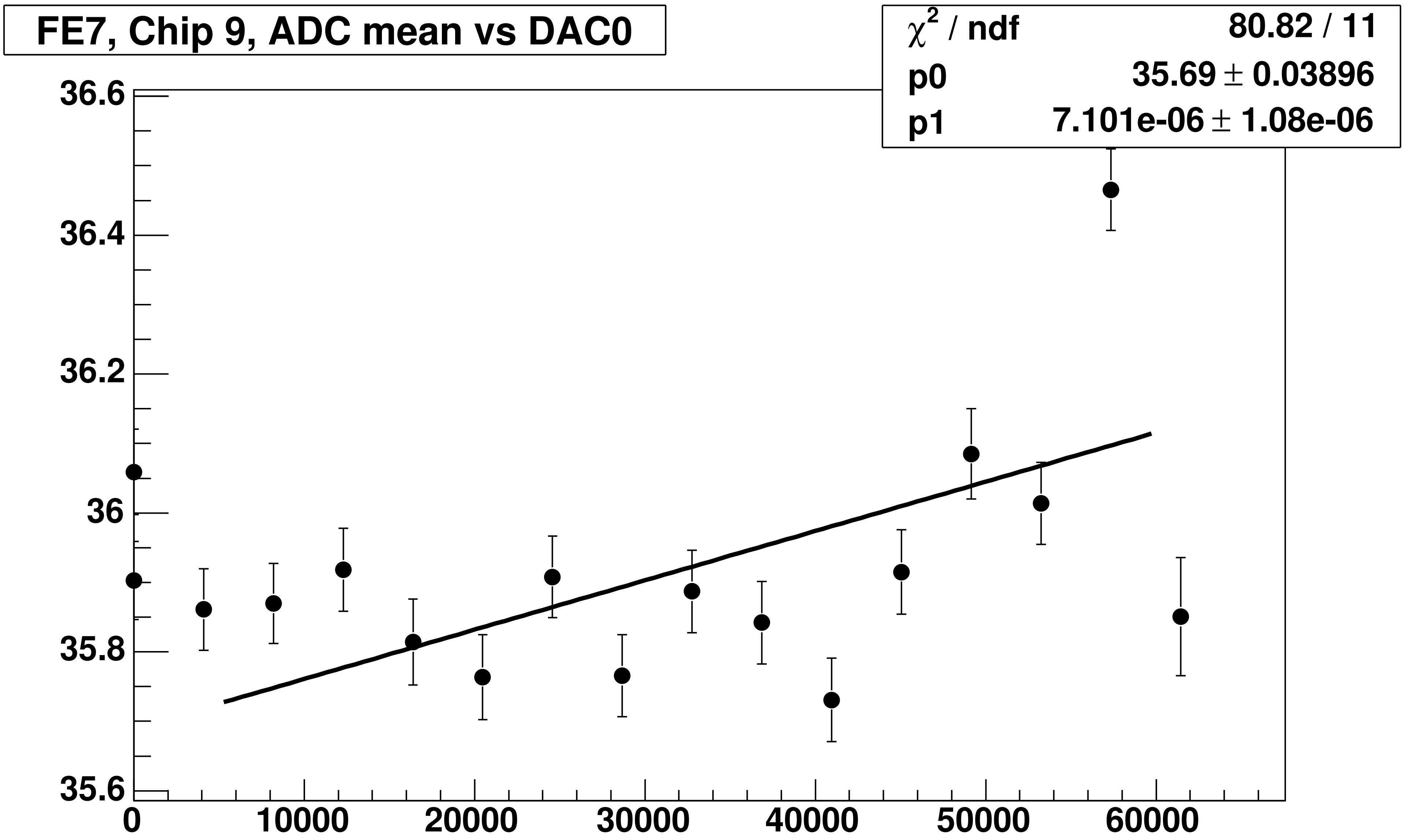
FE7, Chip 8, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

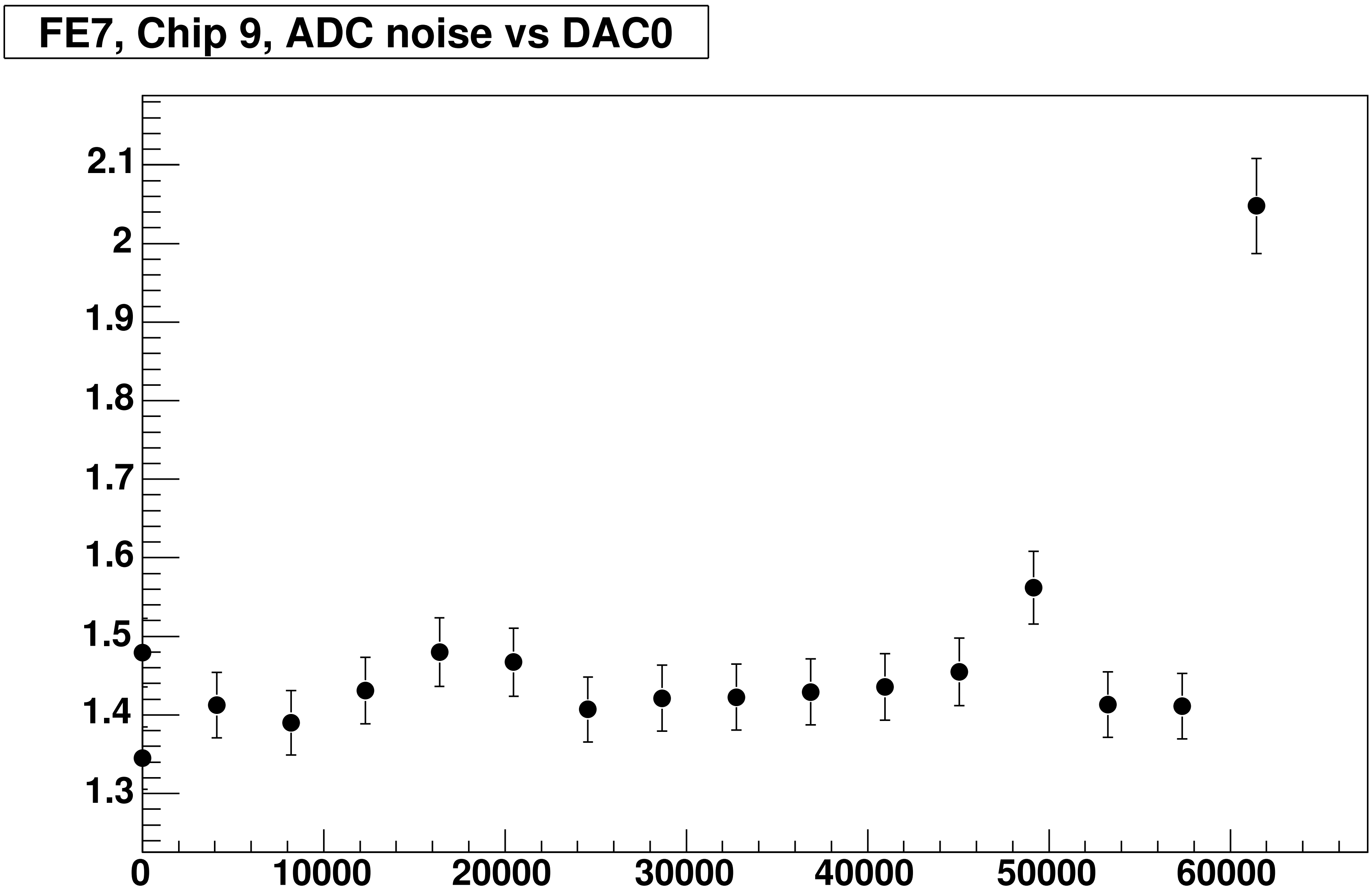


FE7, Chip 8, ADC mean vs DAC1
χ^2 / ndf 3433 / 11
p0 31.51 ± 0.0412
p1 0.4516 ± 1.342e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE7, 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

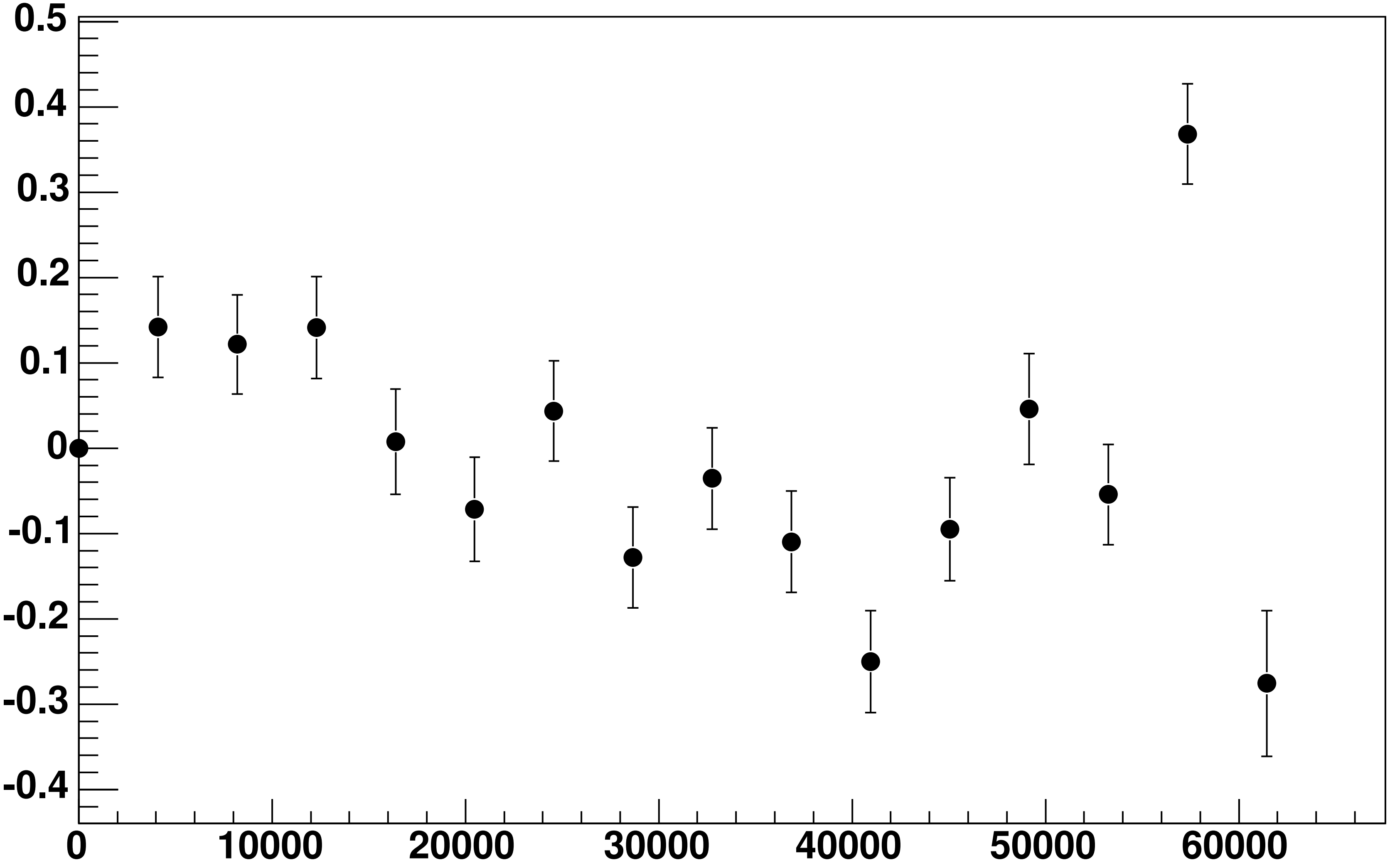

FE7, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

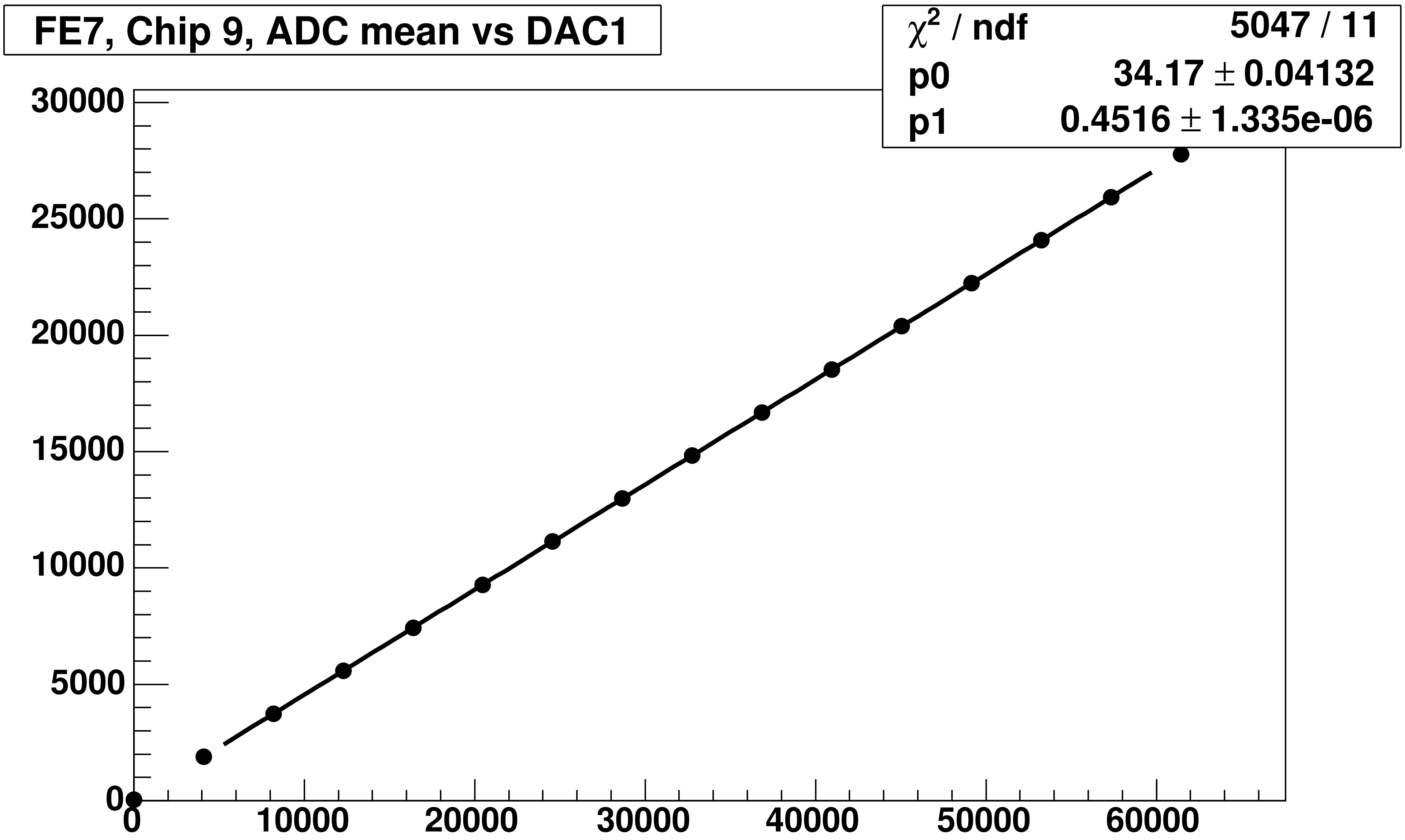

FE7, Chip 9, ADC mean vs DAC0
χ^2 / ndf 80.82 / 11
p0 35.69 ± 0.03896
p1 7.101e-06 ± 1.08e-06
36.6
36.4
36.2
36
35.8
35.6
0
10000
20000
30000
40000
50000
60000

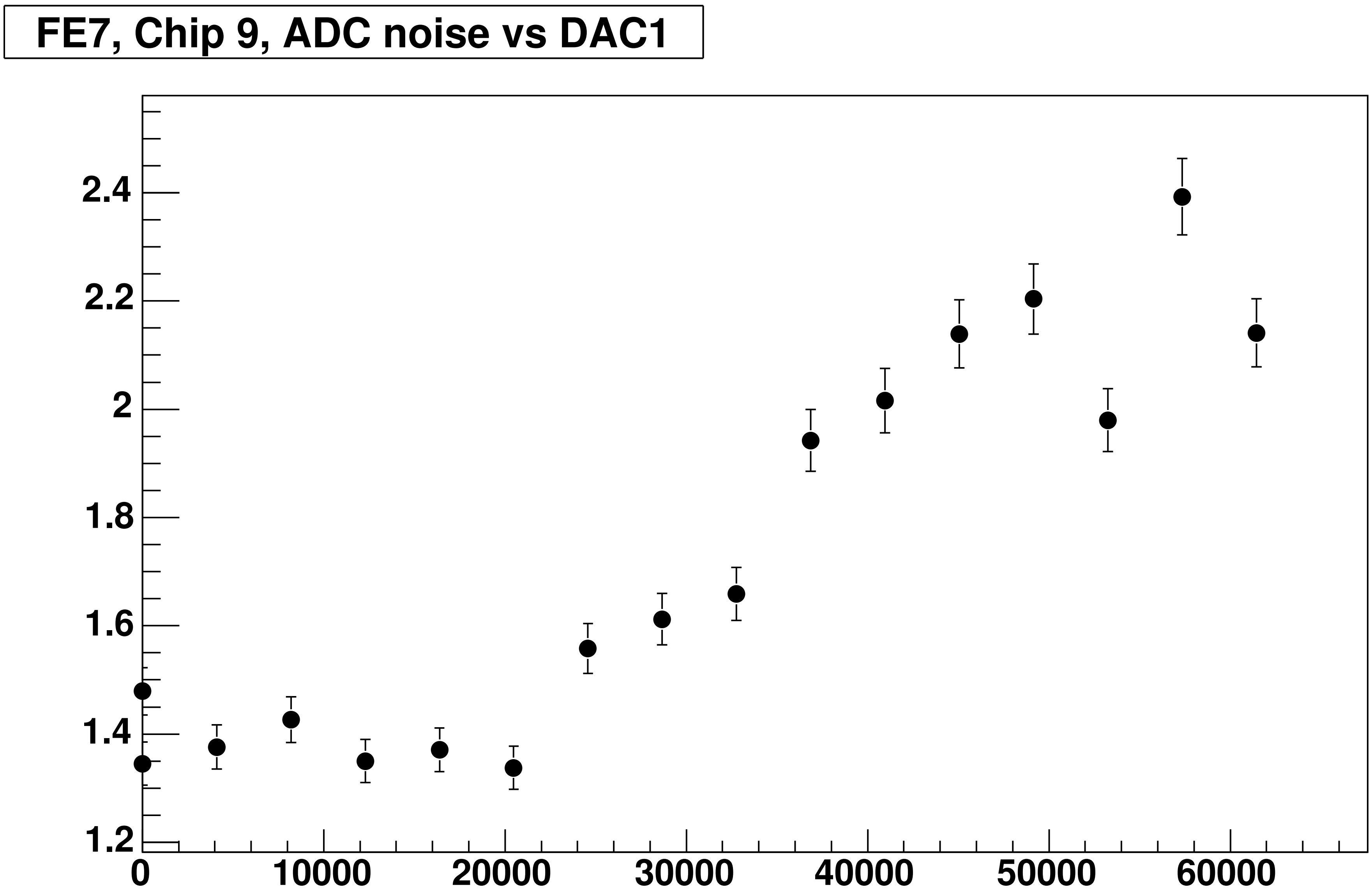


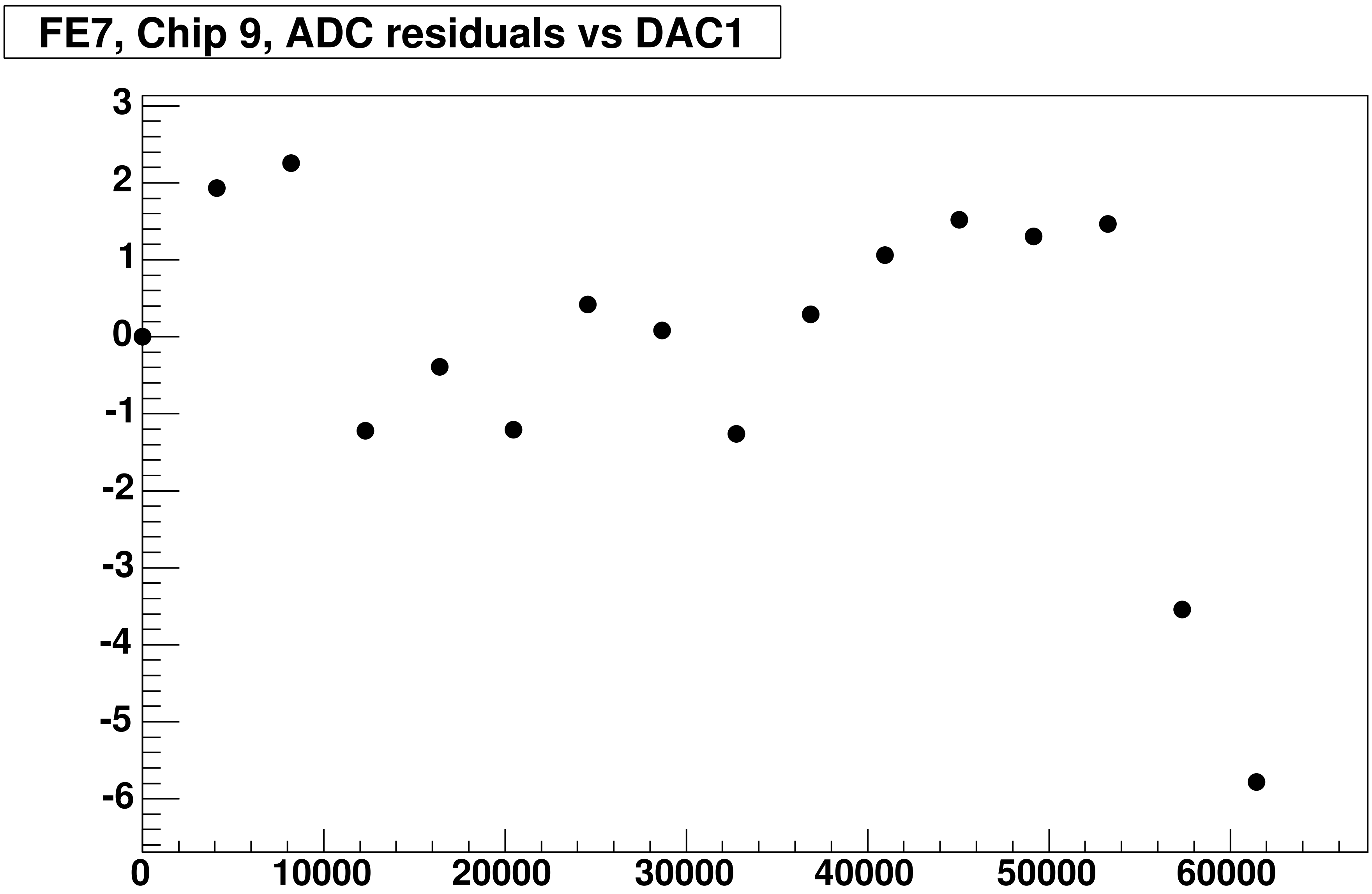
FE7, Chip 9, ADC noise vs DAC0
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

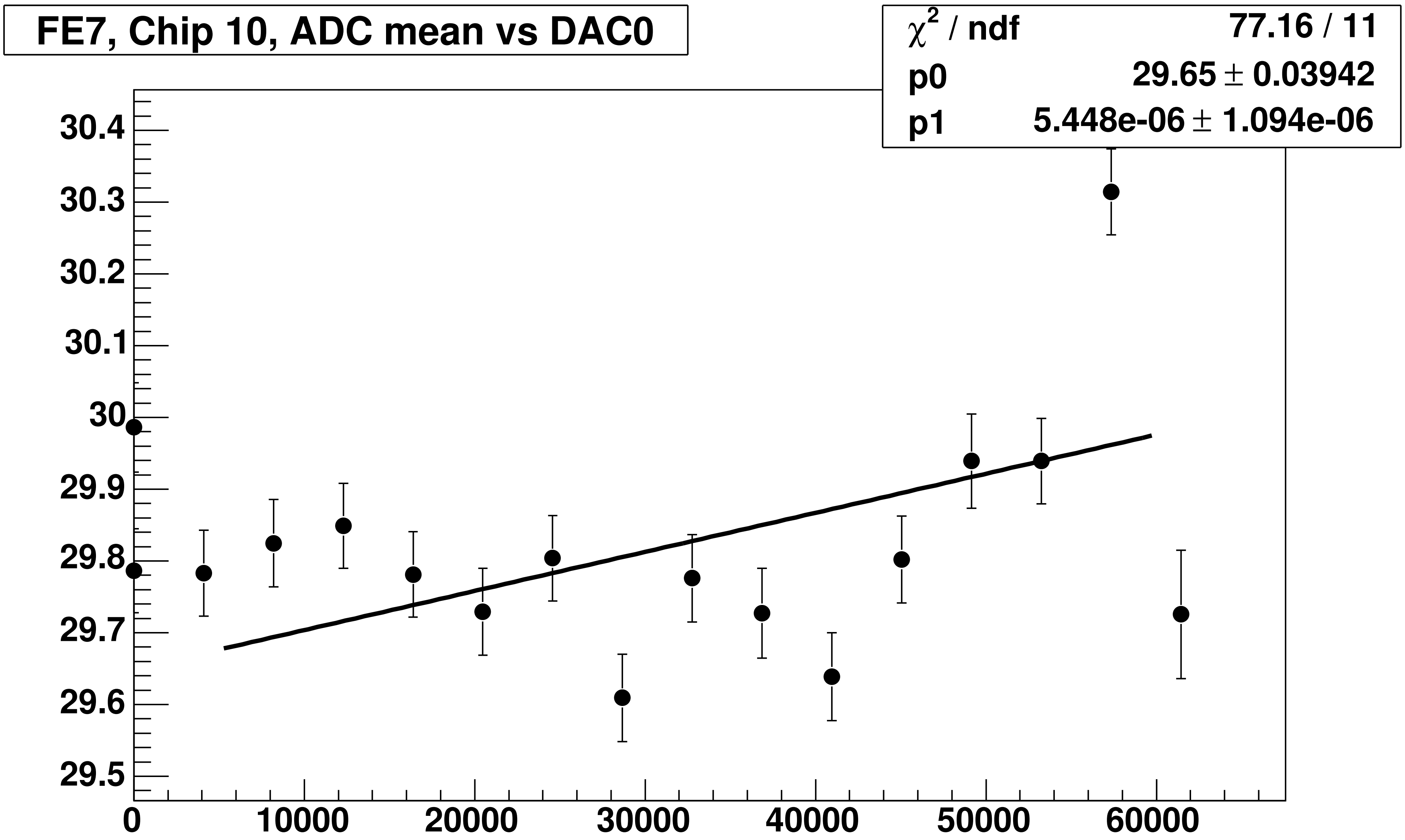
FE7, Chip 9, ADC residuals vs DAC0

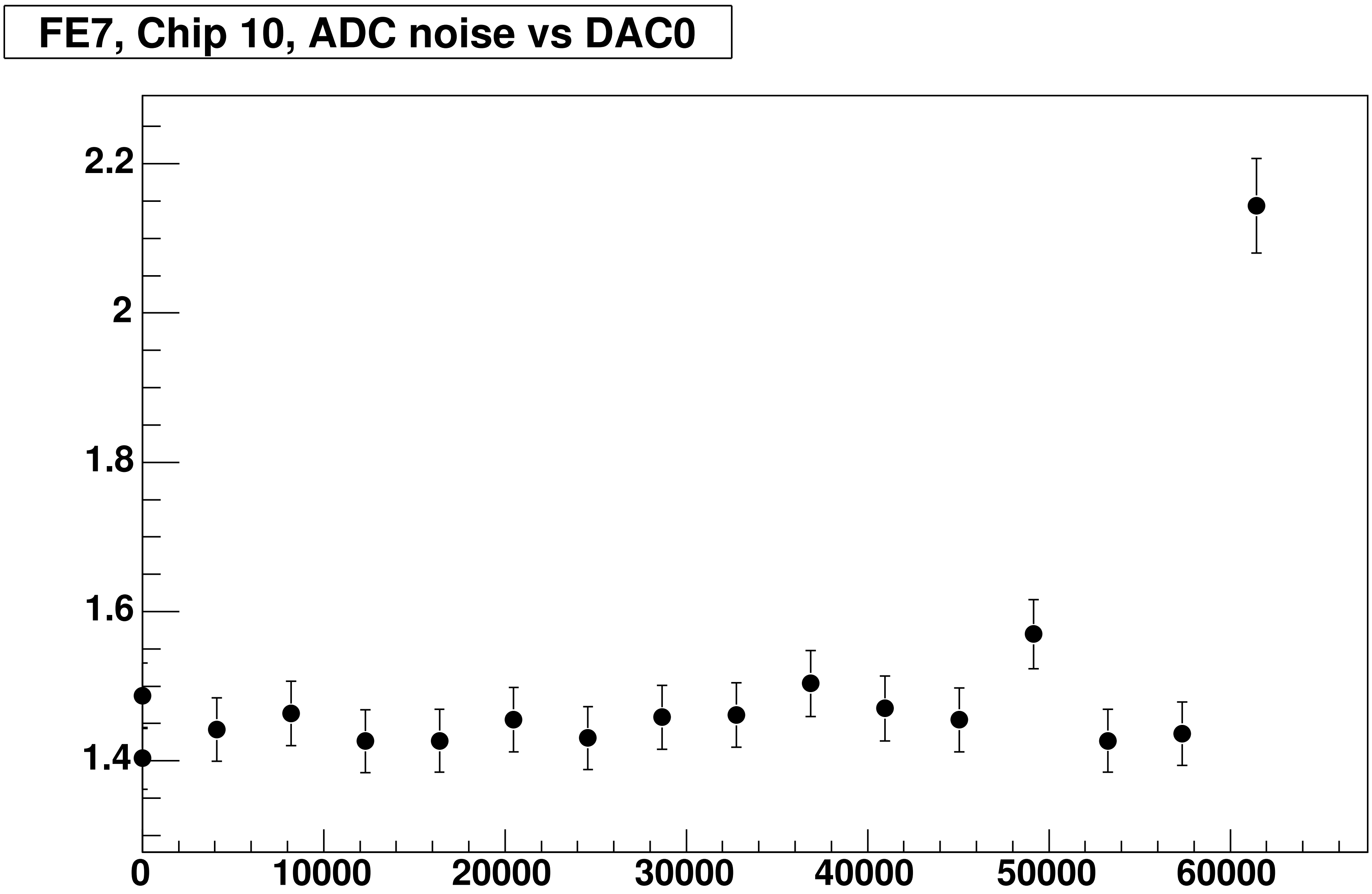


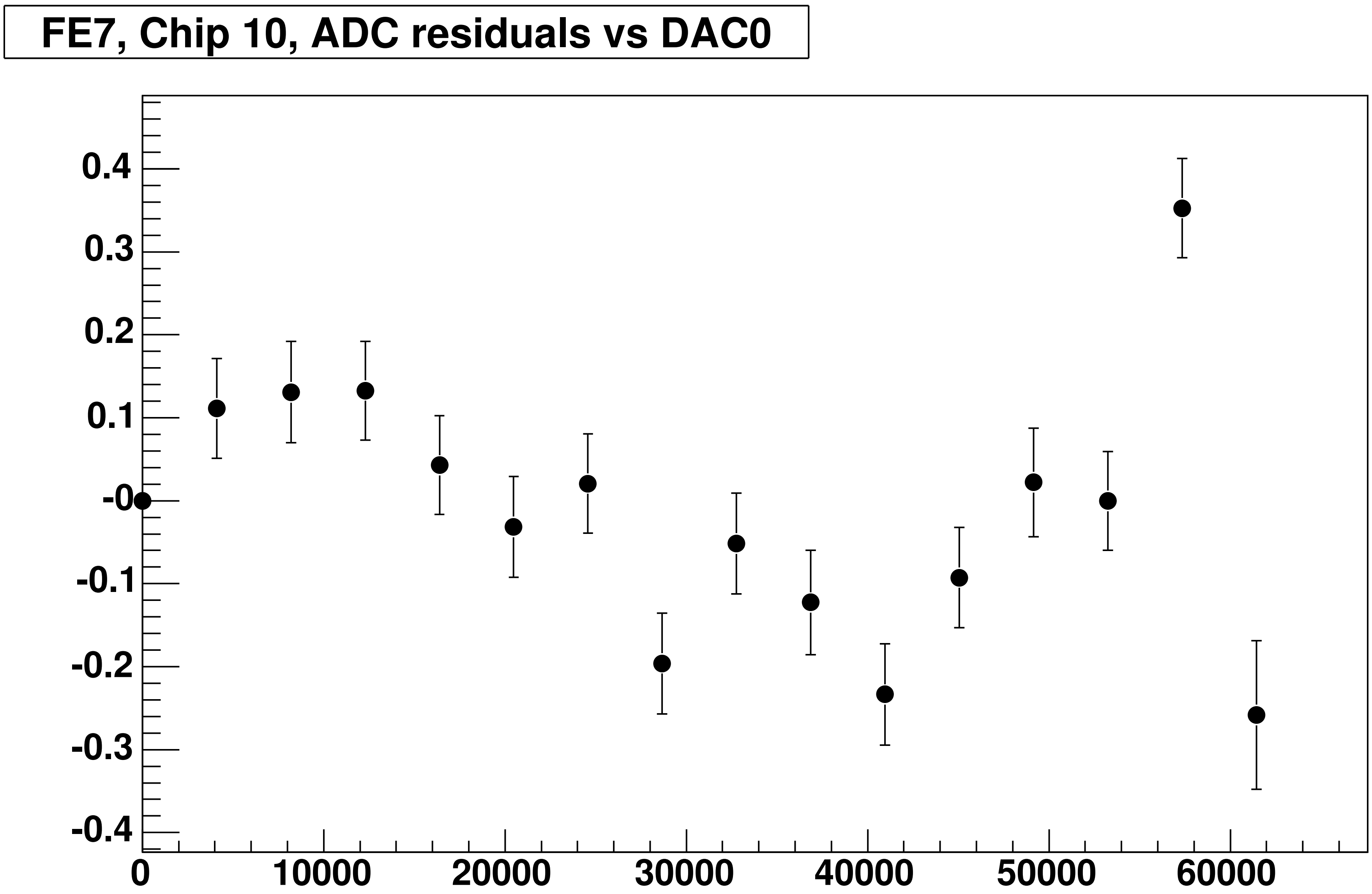

FE7, Chip 9, ADC mean vs DAC1
χ^2 / ndf 5047 / 11
p0 34.17 ± 0.04132
p1 0.4516 ± 1.335e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


FE7, Chip 9, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

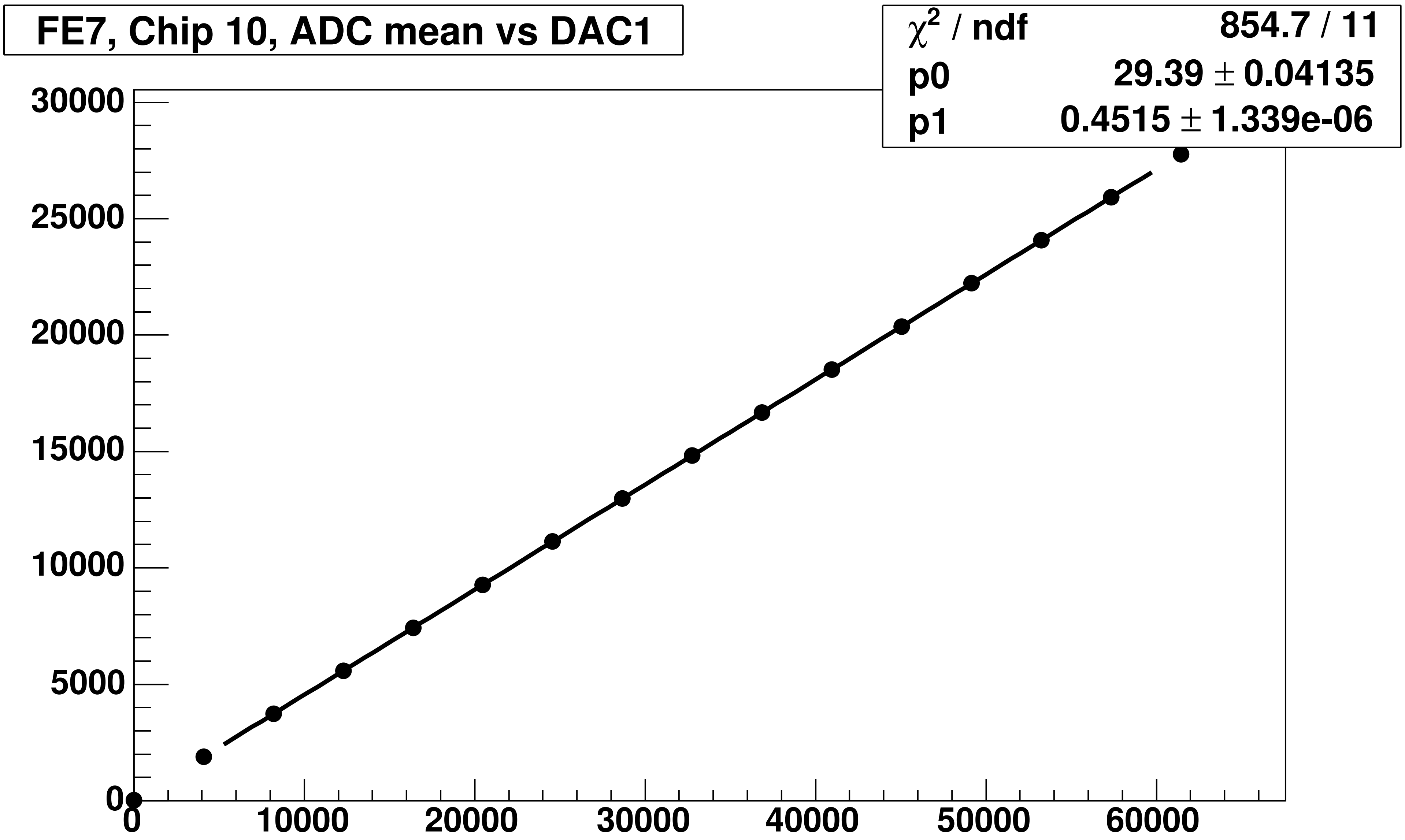

FE7, Chip 9, ADC residuals vs DAC1
3
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE7, Chip 10, ADC mean vs DAC0
χ^2 / ndf 77.16 / 11
p0 29.65 ± 0.03942
p1 5.448e-06 ± 1.094e-06
30.4
30.3
30.2
30.1
30
29.9
29.8
29.7
29.6
29.5
0
10000
20000
30000
40000
50000
60000

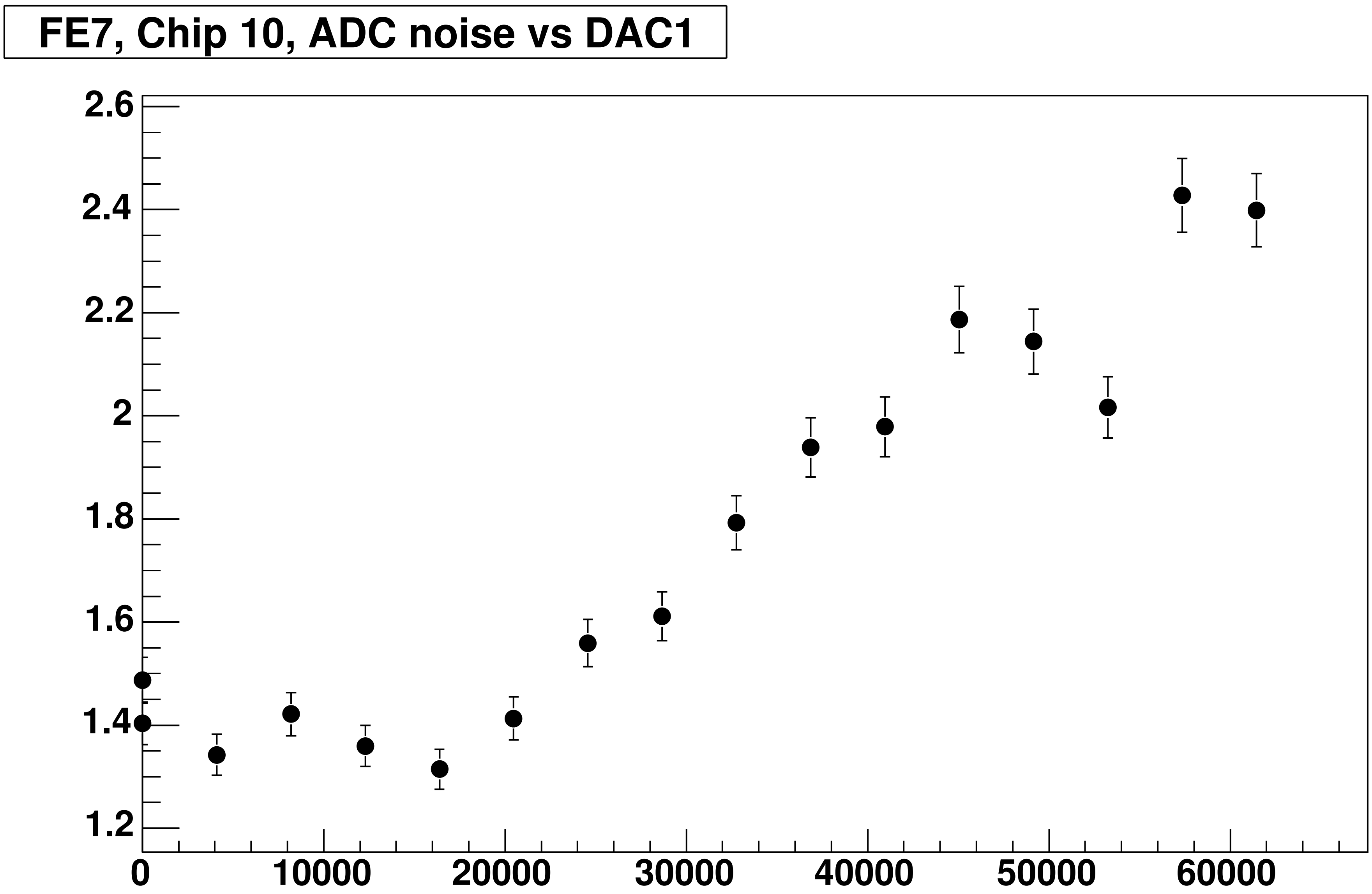

FE7, Chip 10, ADC noise vs DAC0
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

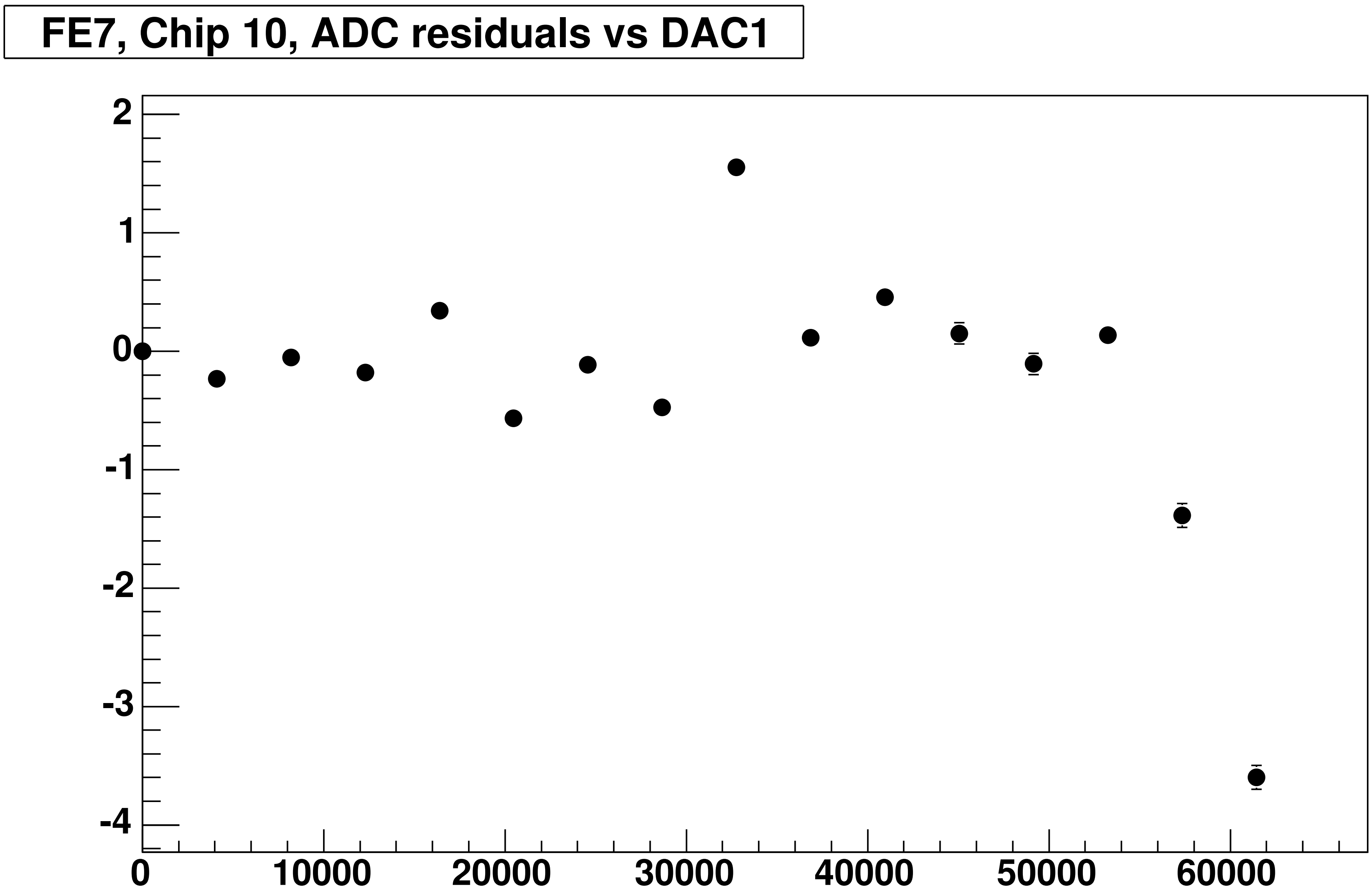


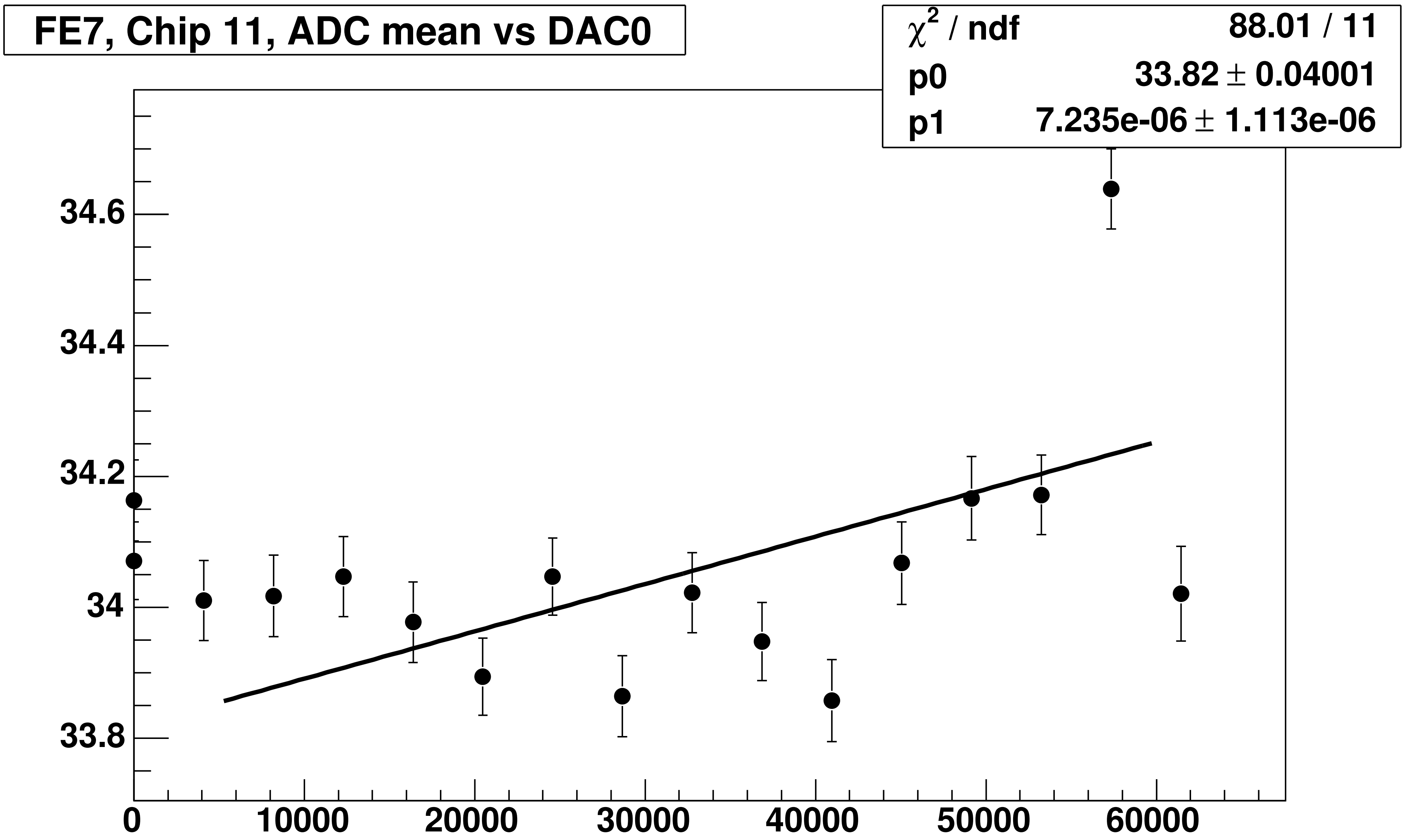
FE7, Chip 10, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

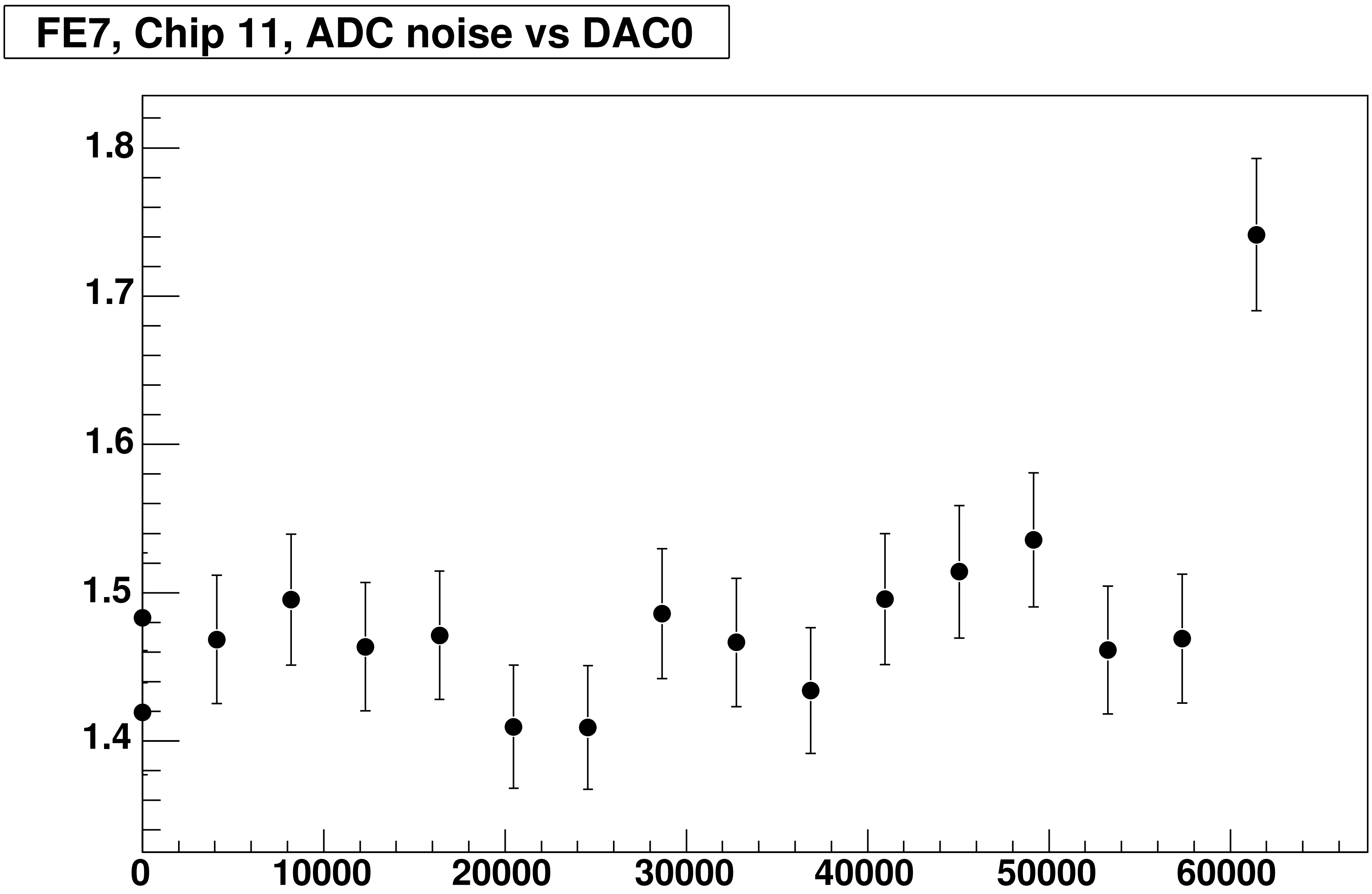


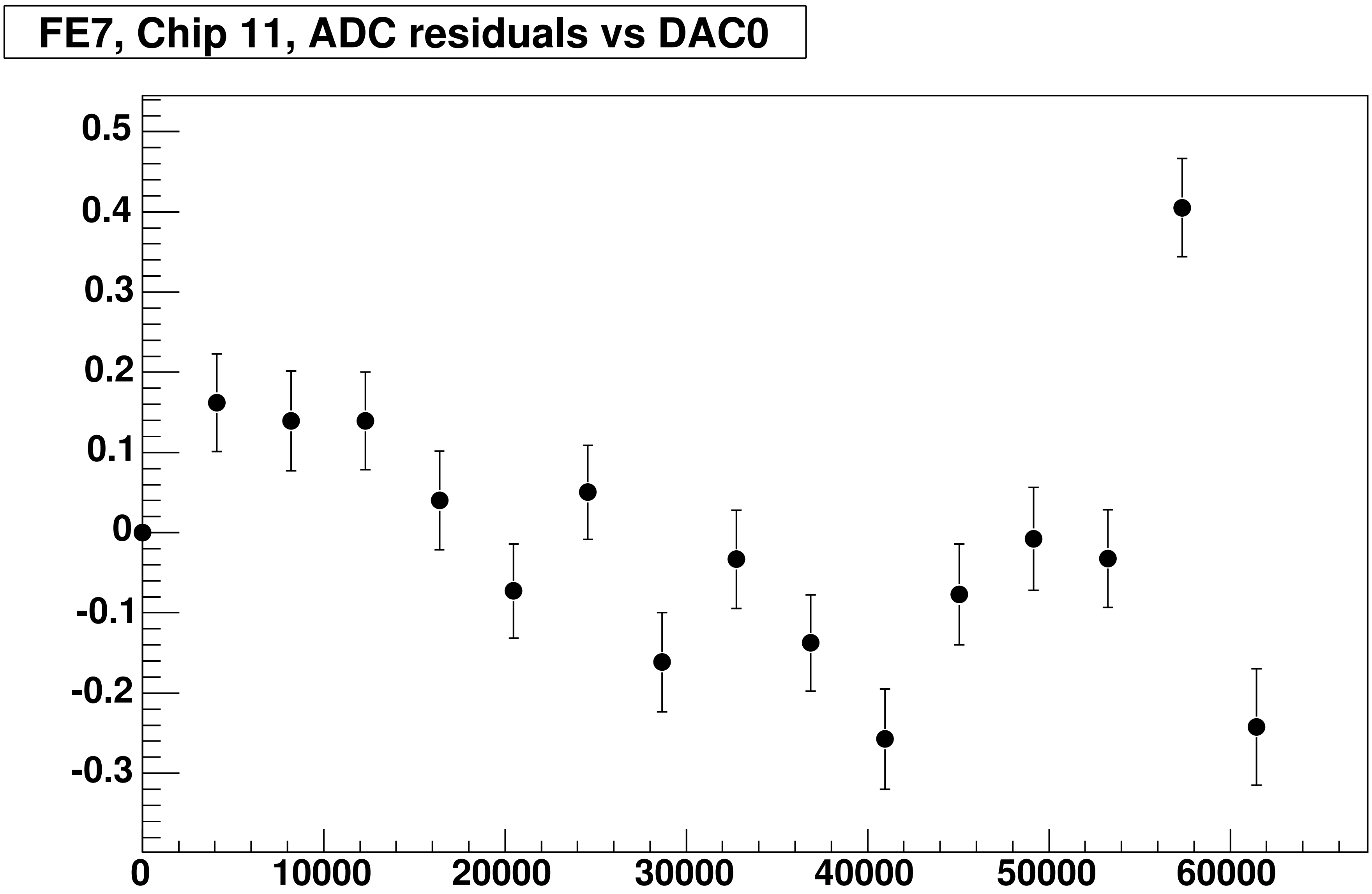
FE7, Chip 10, ADC mean vs DAC1
χ^2 / ndf 854.7 / 11
p0 29.39 ± 0.04135
p1 0.4515 ± 1.339e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

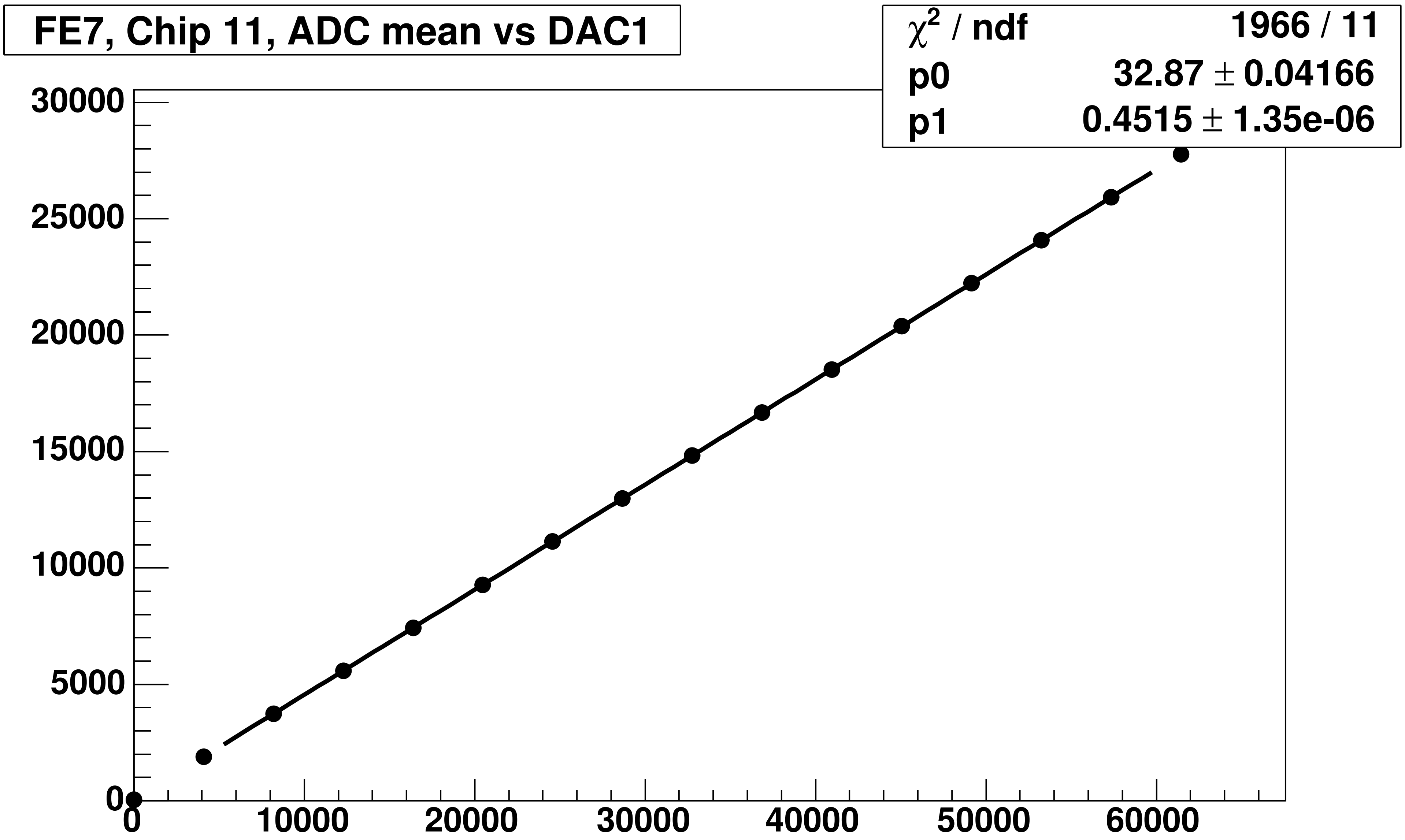

FE7, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

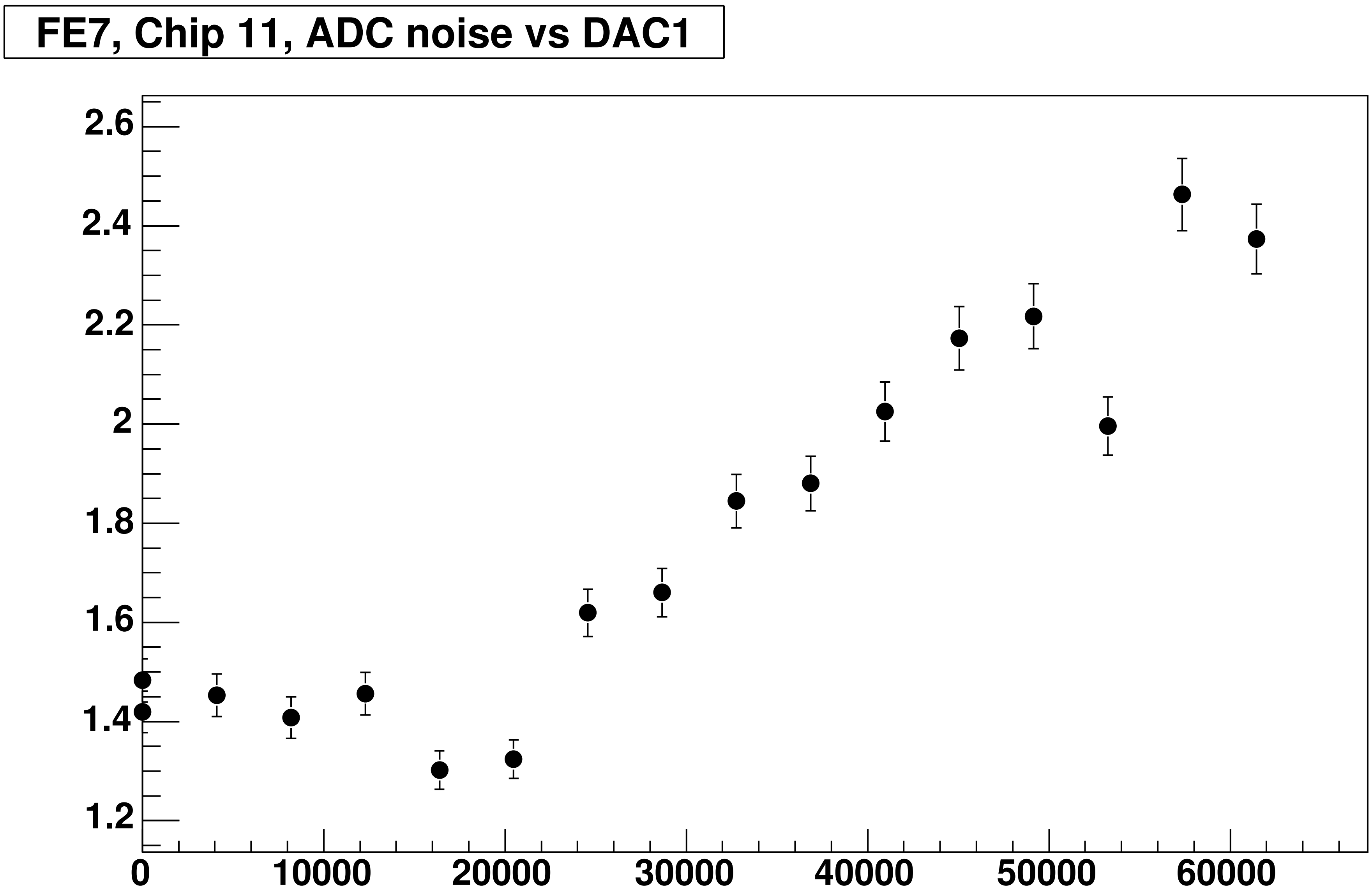

FE7, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

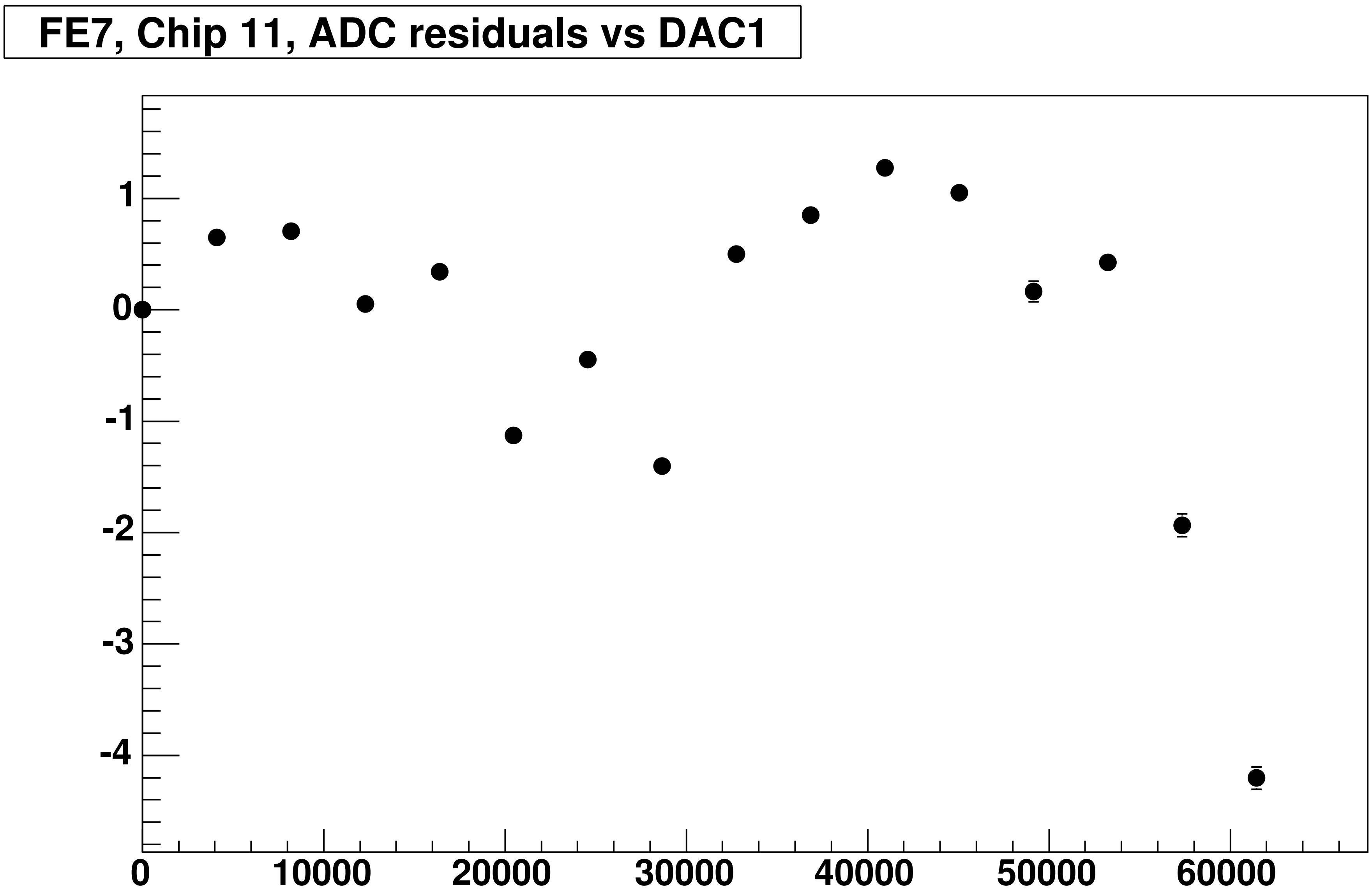

FE7, Chip 11, ADC mean vs DAC0
χ² / ndf 88.01 / 11
p0 33.82 ± 0.04001
p1 7.235e-06 ± 1.113e-06
34.6
34.4
34.2
34
33.8
0
10000
20000
30000
40000
50000
60000

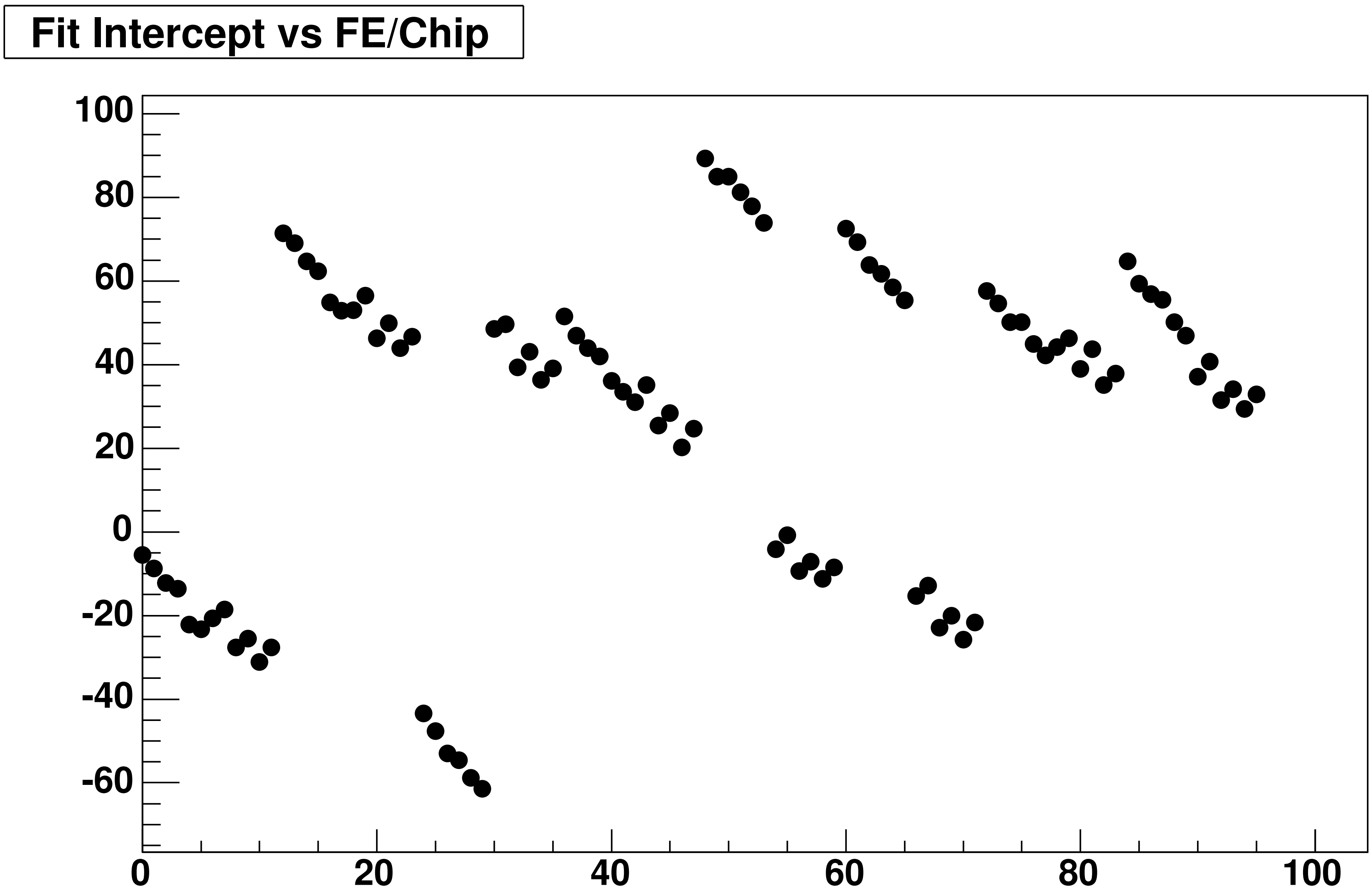

FE7, Chip 11, ADC noise vs DAC0
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000


FE7, Chip 11, ADC residuals vs DAC0
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

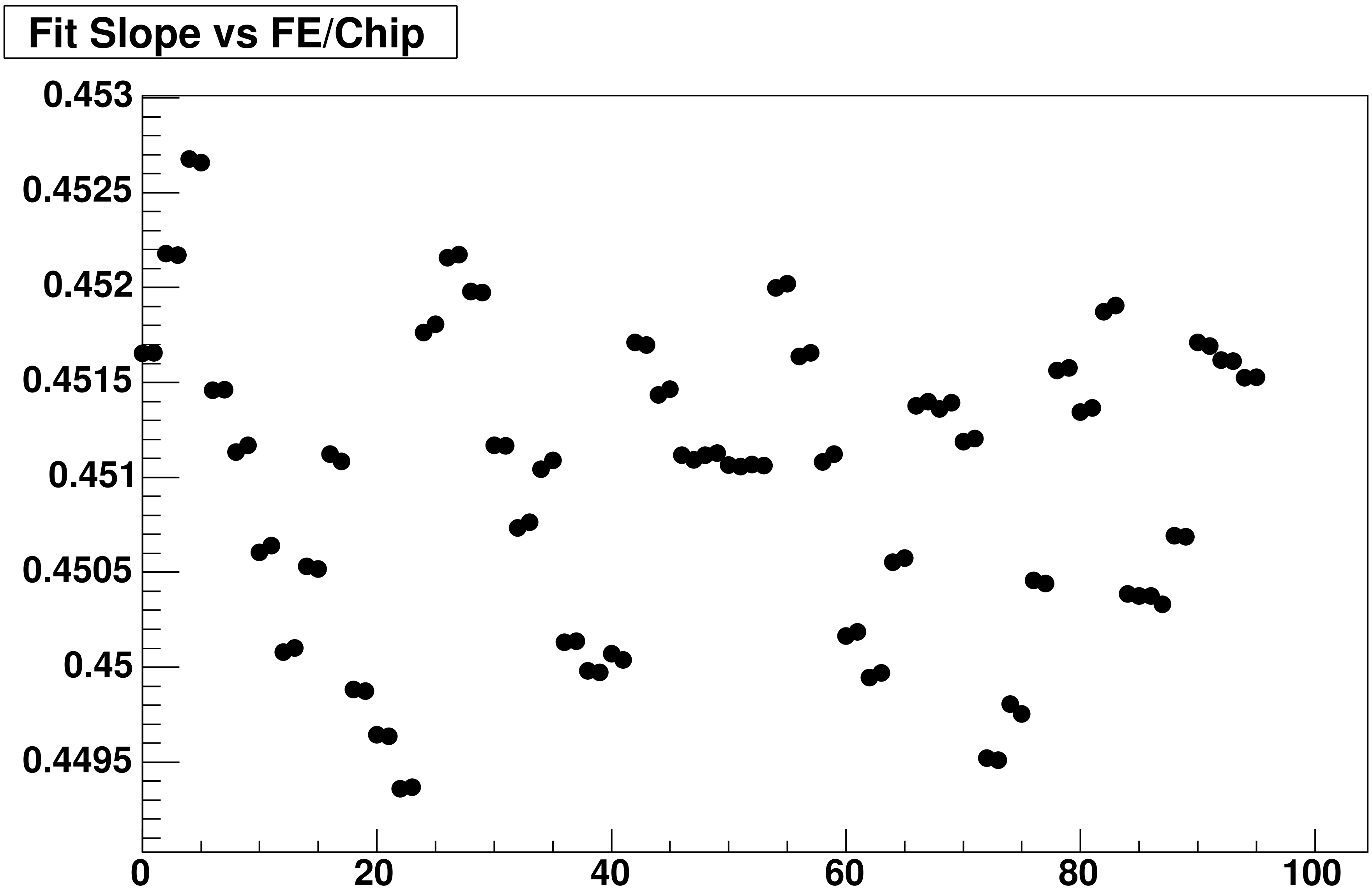

FE7, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1966 / 11
p0 32.87 ± 0.04166
p1 0.4515 ± 1.35e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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


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



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


Fit Slope vs FE/Chip
0.453
0.4525
0.452
0.4515
0.451
0.4505
0.45
0.4495
0
20
40
60
80
100