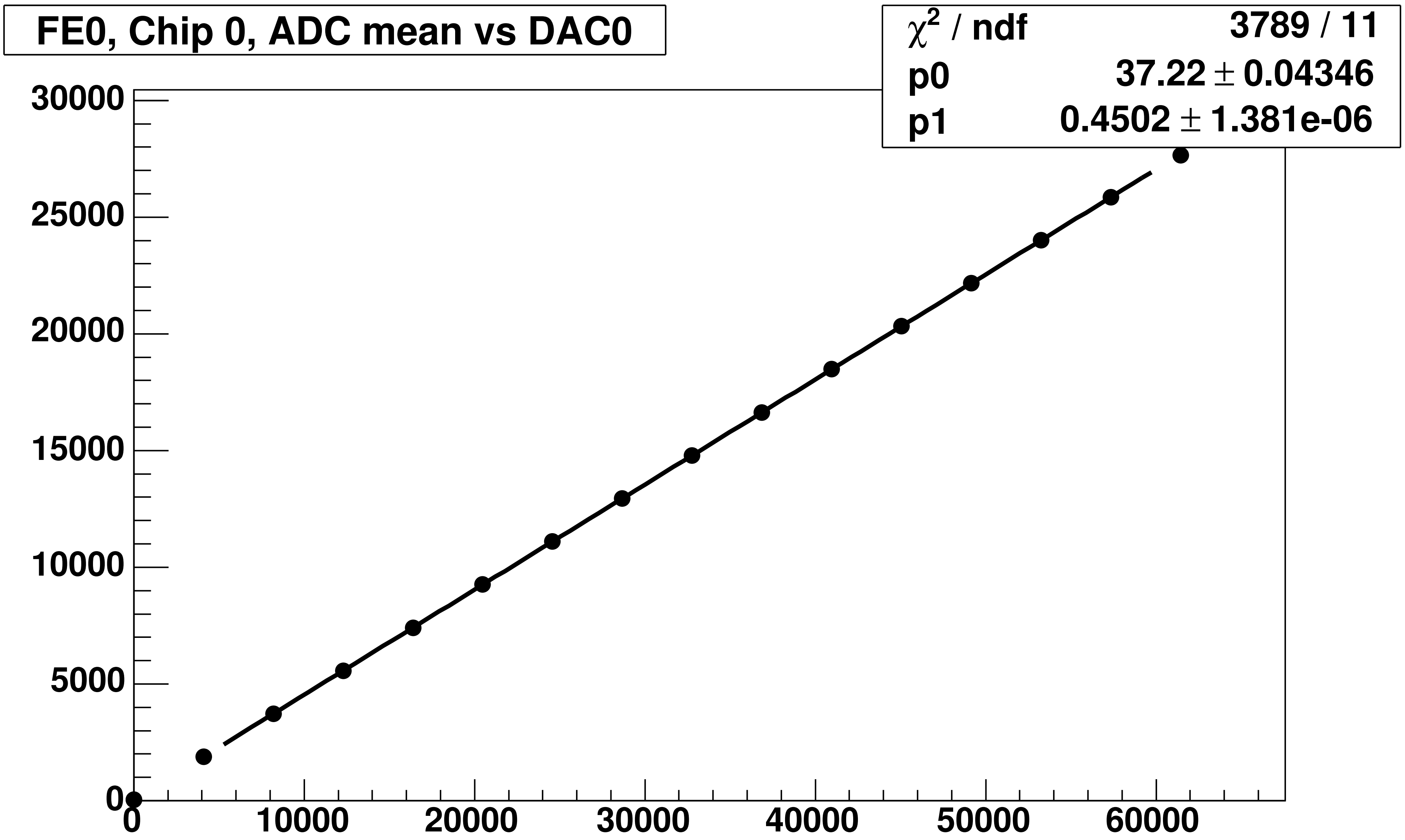
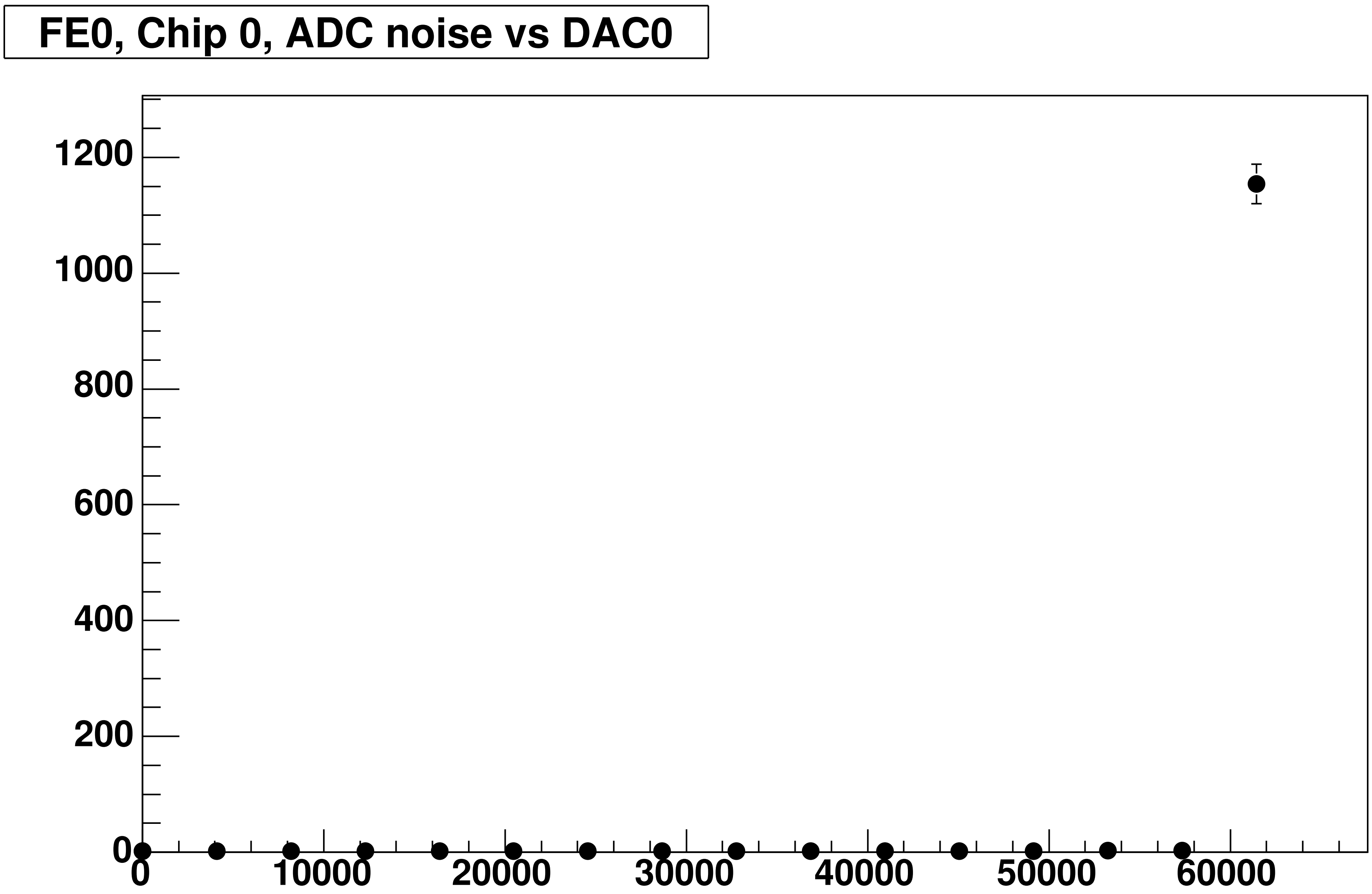
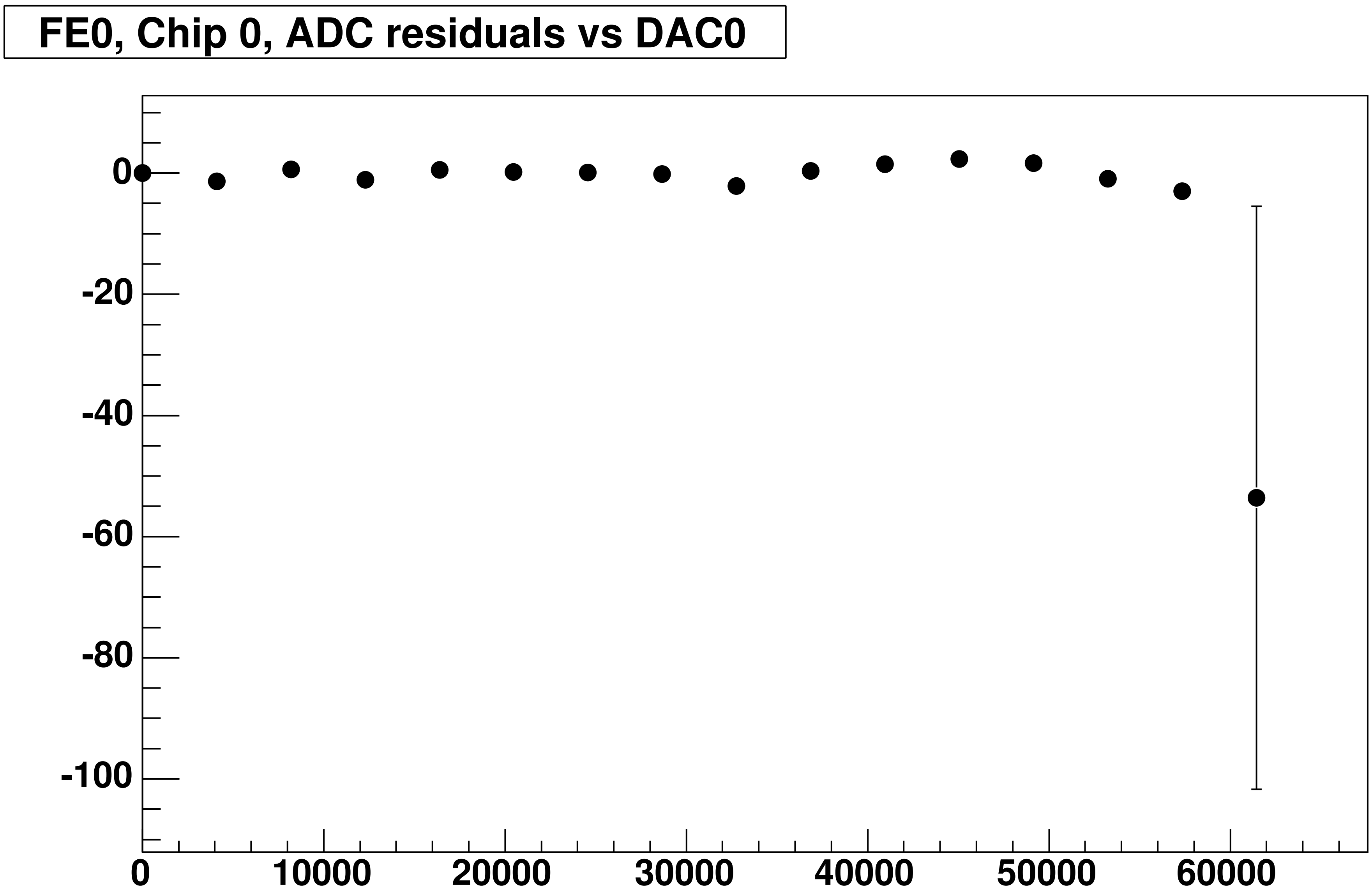
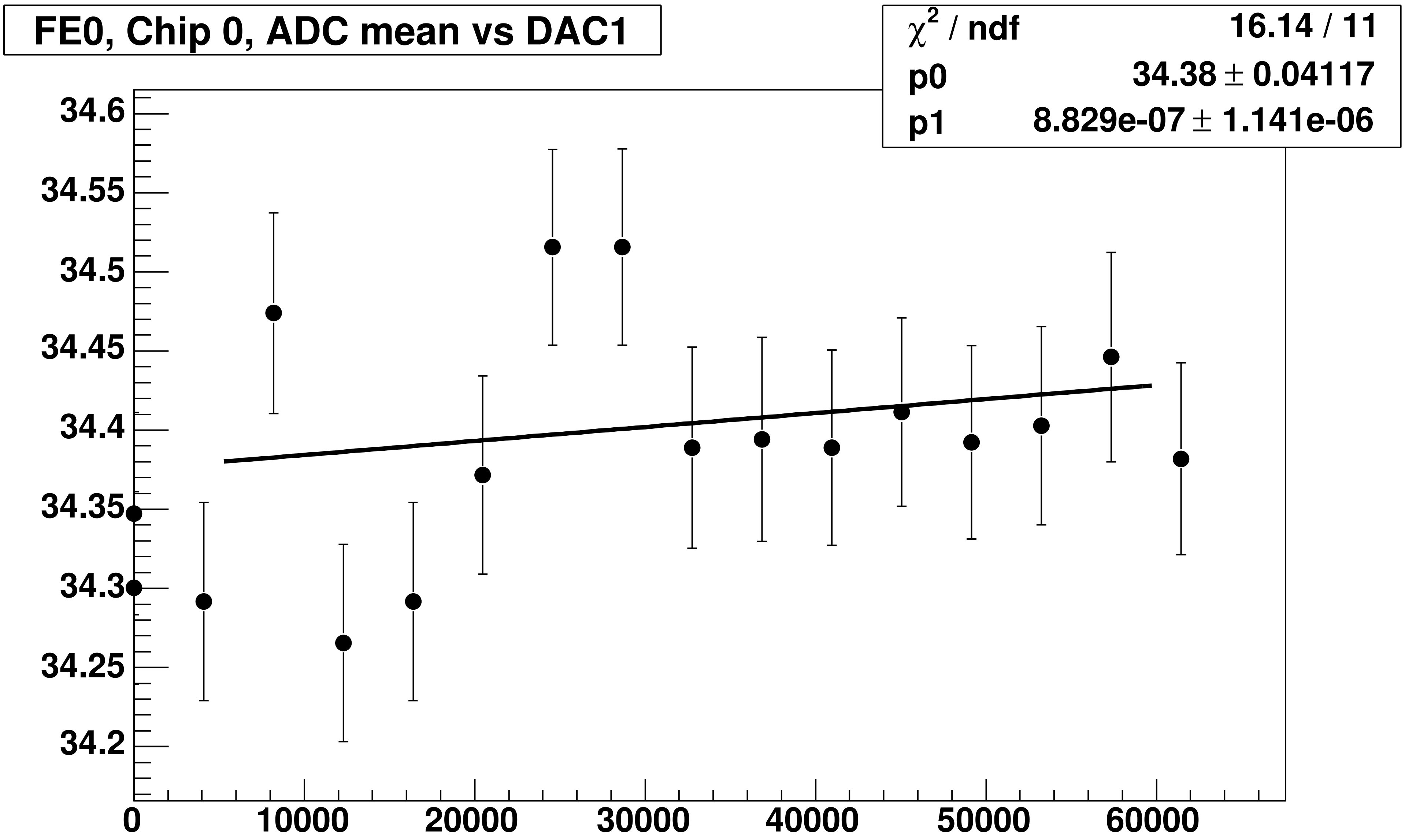


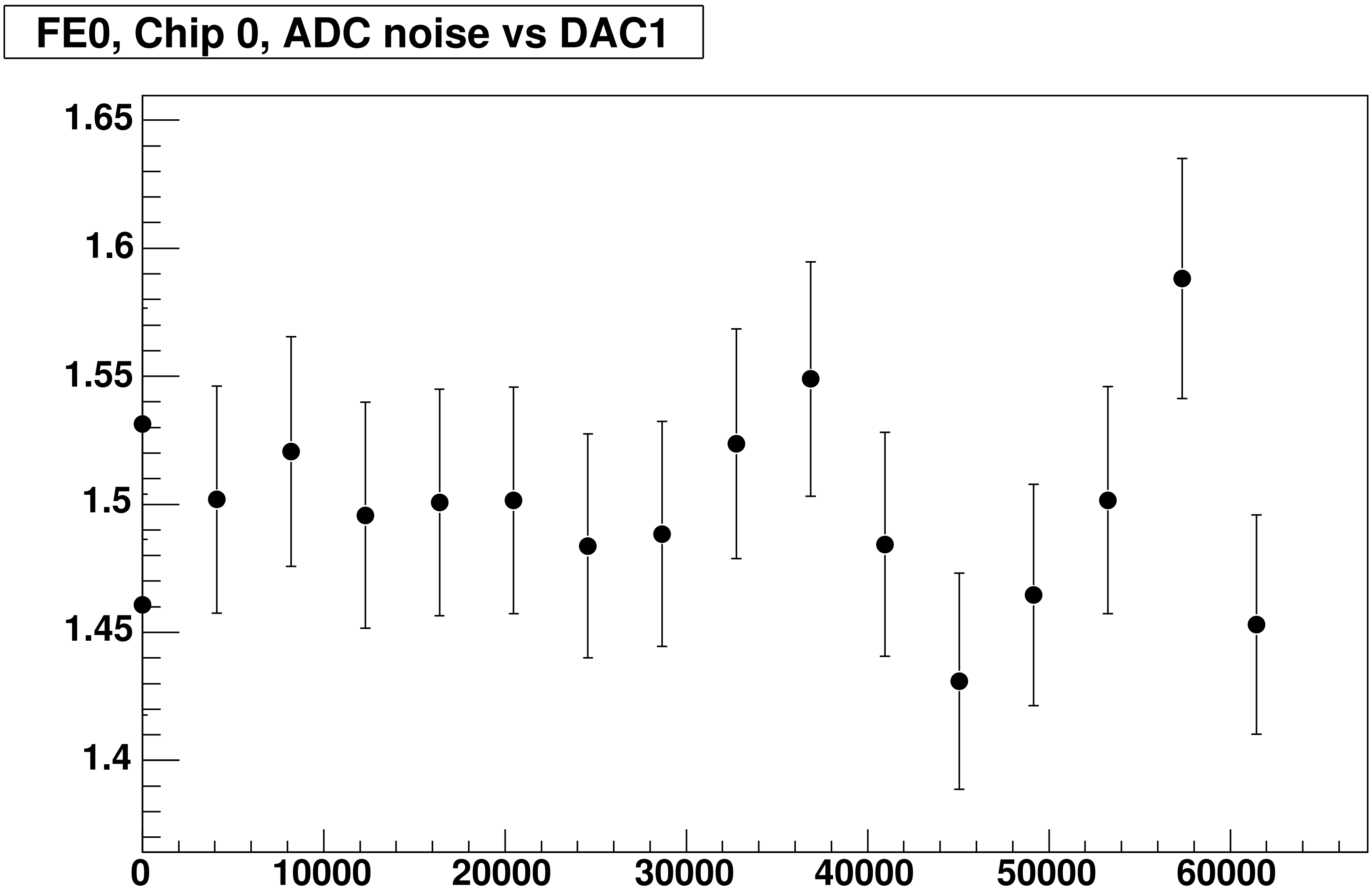
FE0, Chip 0, ADC mean vs DAC0
χ^2 / ndf 3789 / 11
p0 37.22 ± 0.04346
p1 0.4502 ± 1.381e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

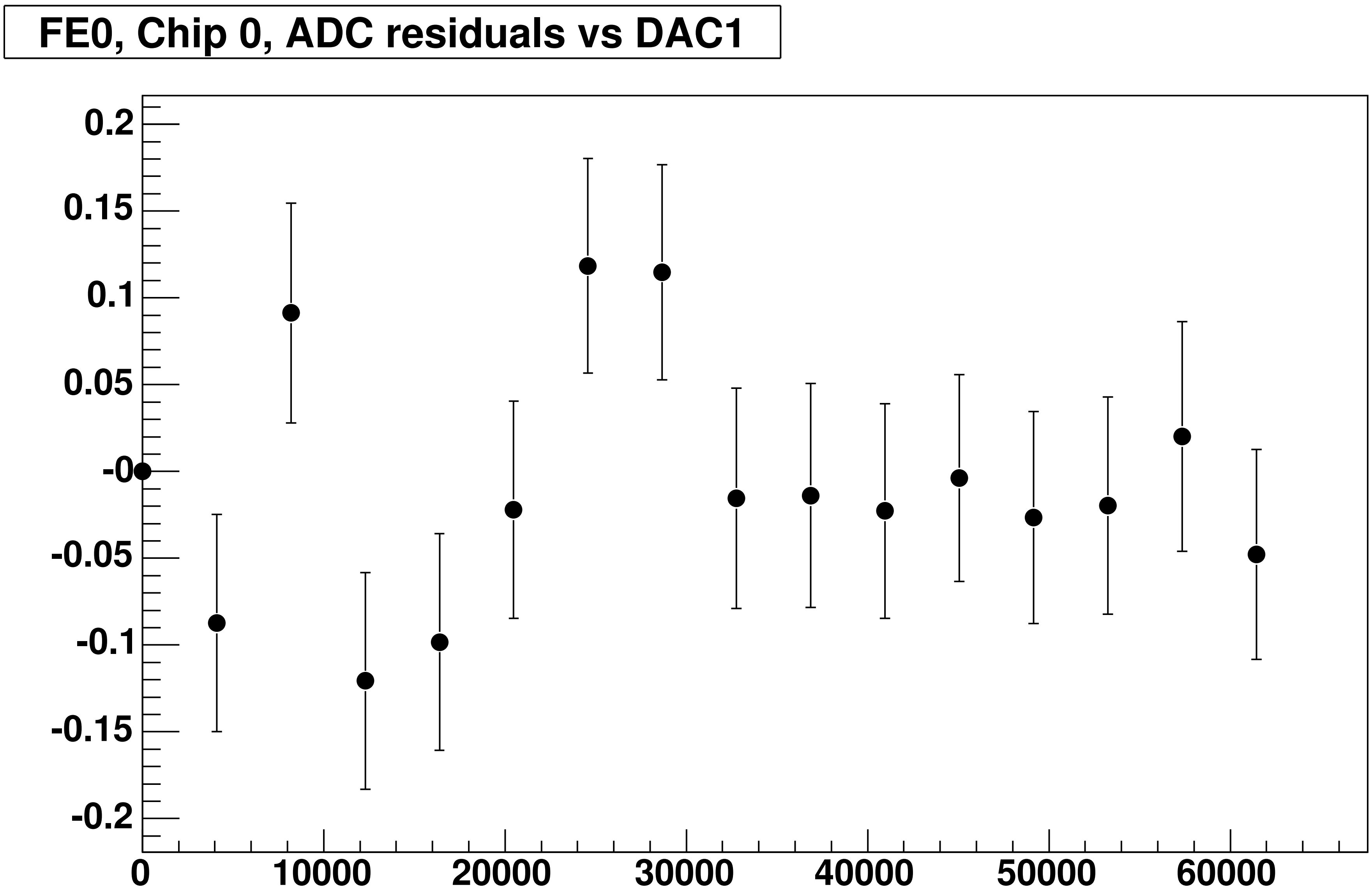

FE0, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

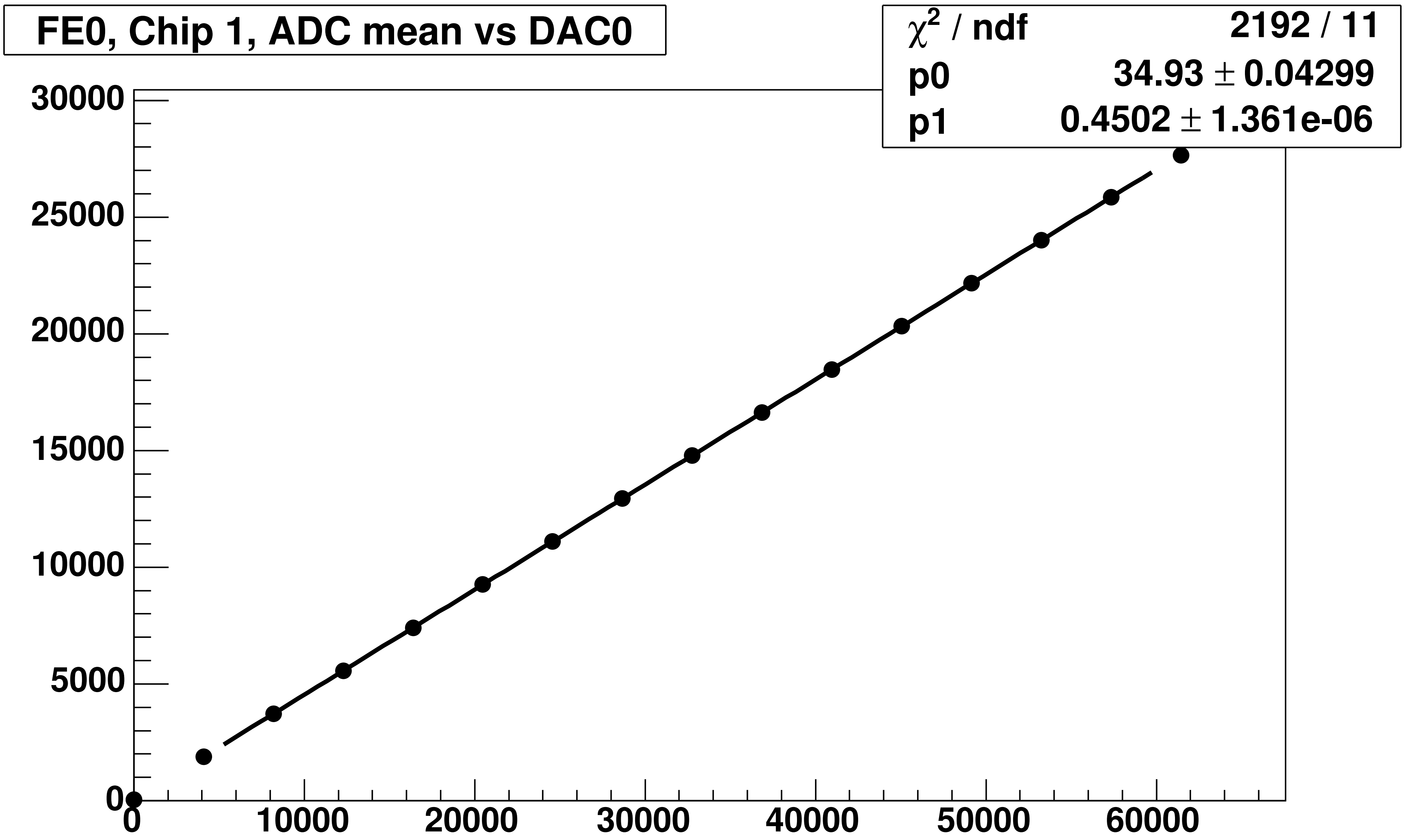


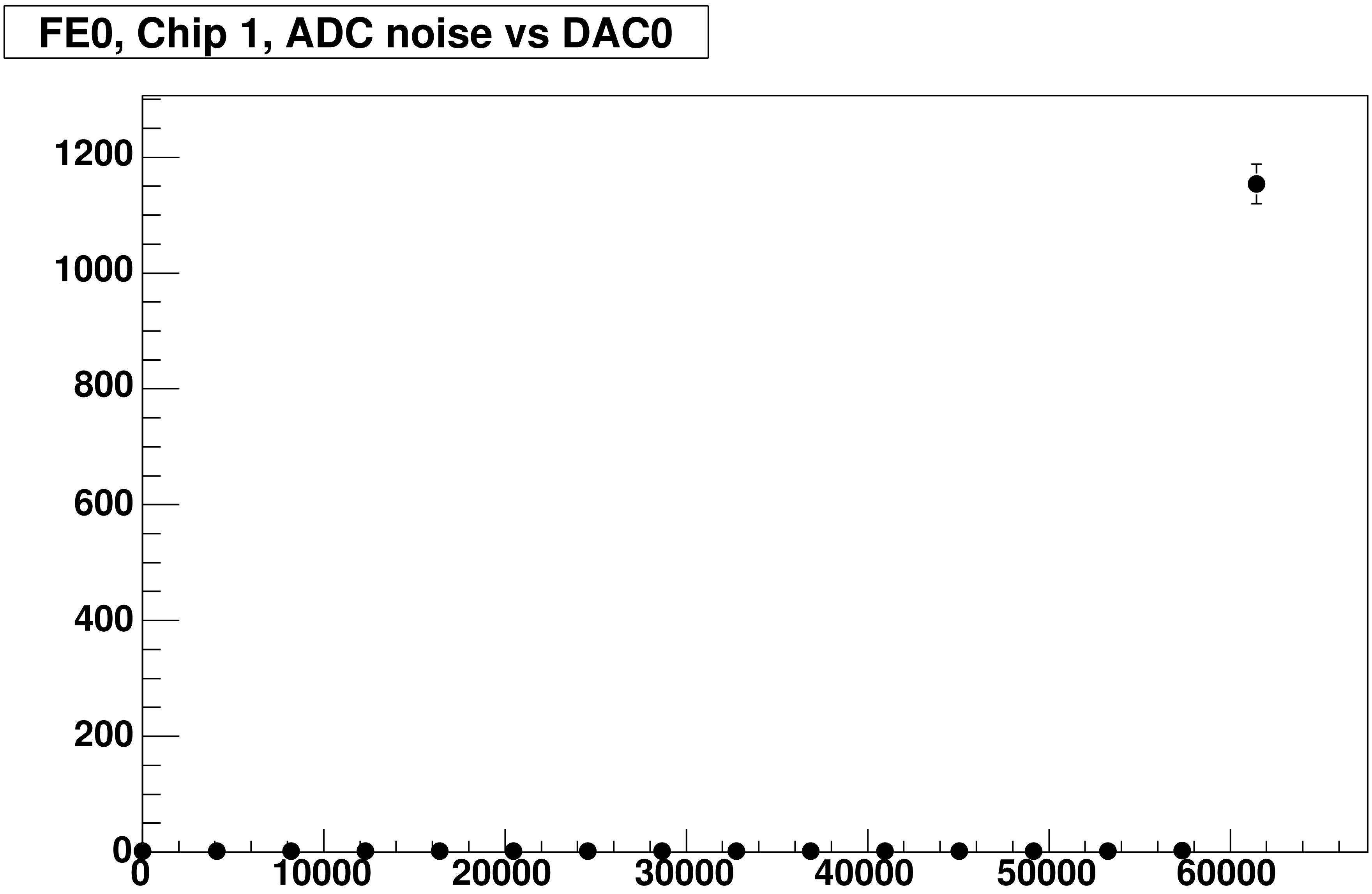
FE0, Chip 0, ADC mean vs DAC1
χ^2 / ndf 16.14 / 11
p0 34.38 ± 0.04117
p1 8.829e-07 ± 1.141e-06
34.6
34.55
34.5
34.45
34.4
34.35
34.3
34.25
34.2
0
10000
20000
30000
40000
50000
60000

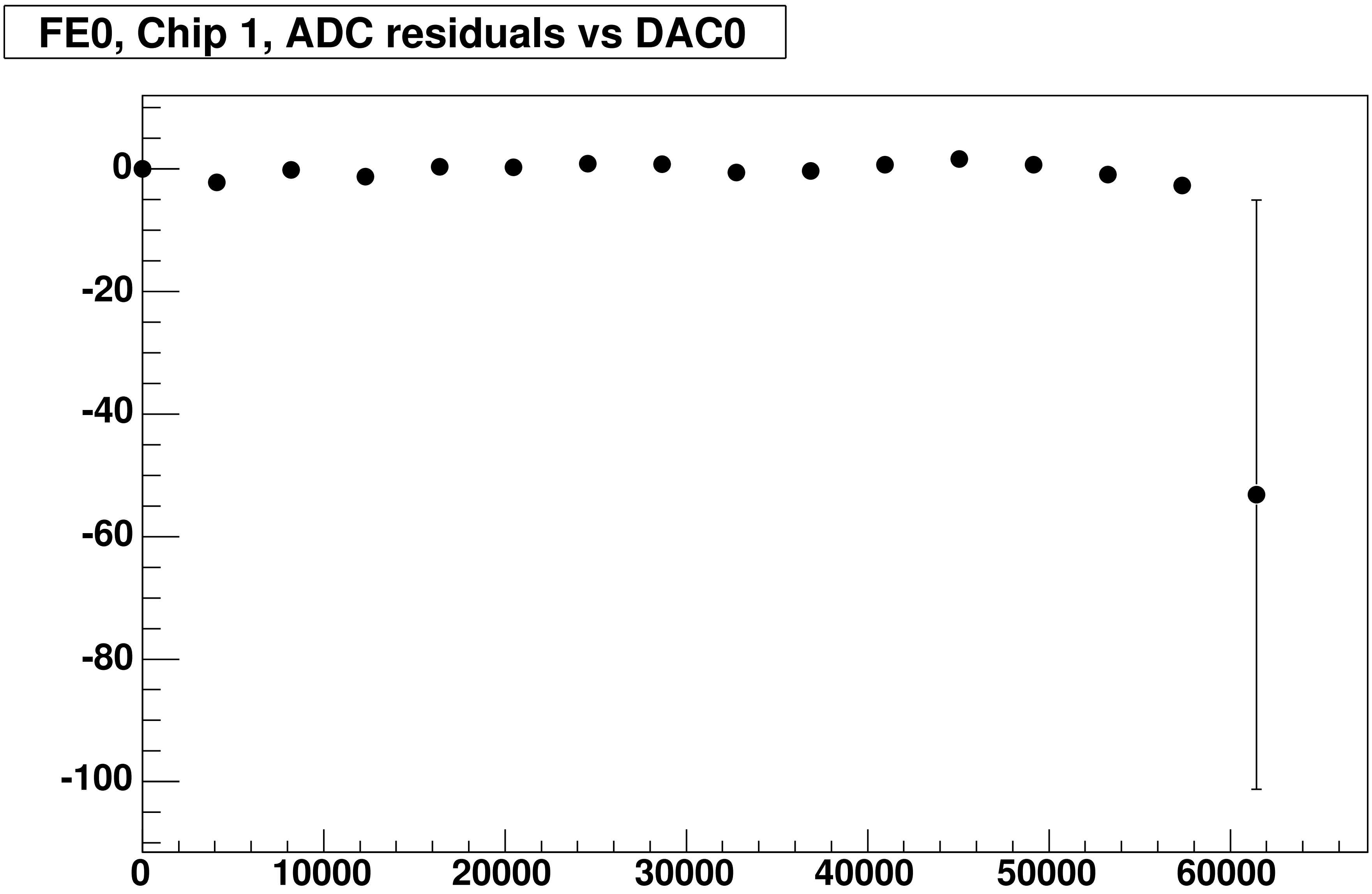

FE0, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

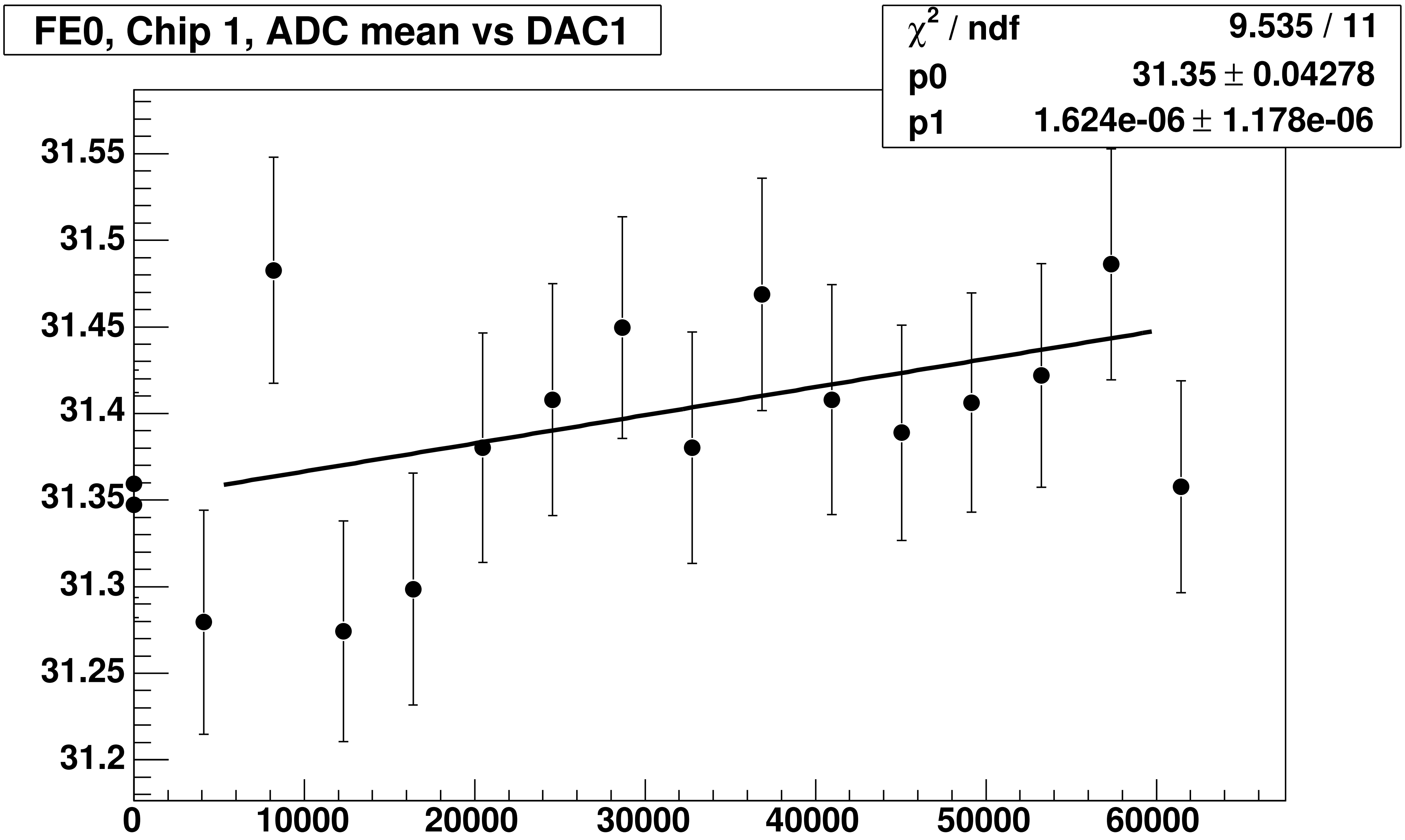


FE0, Chip 0, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

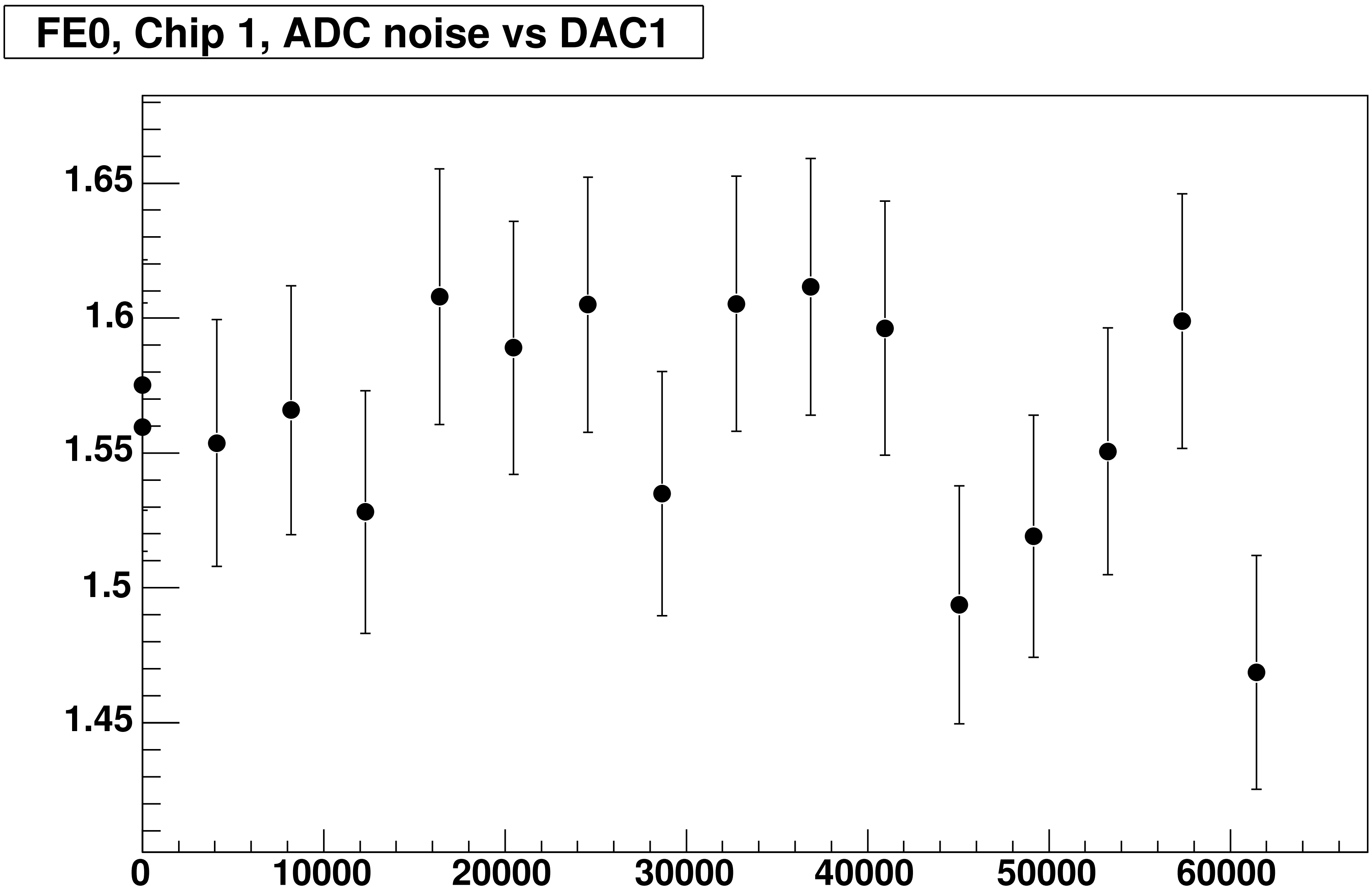

FE0, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2192 / 11
p0 34.93 ± 0.04299
p1 0.4502 ± 1.361e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

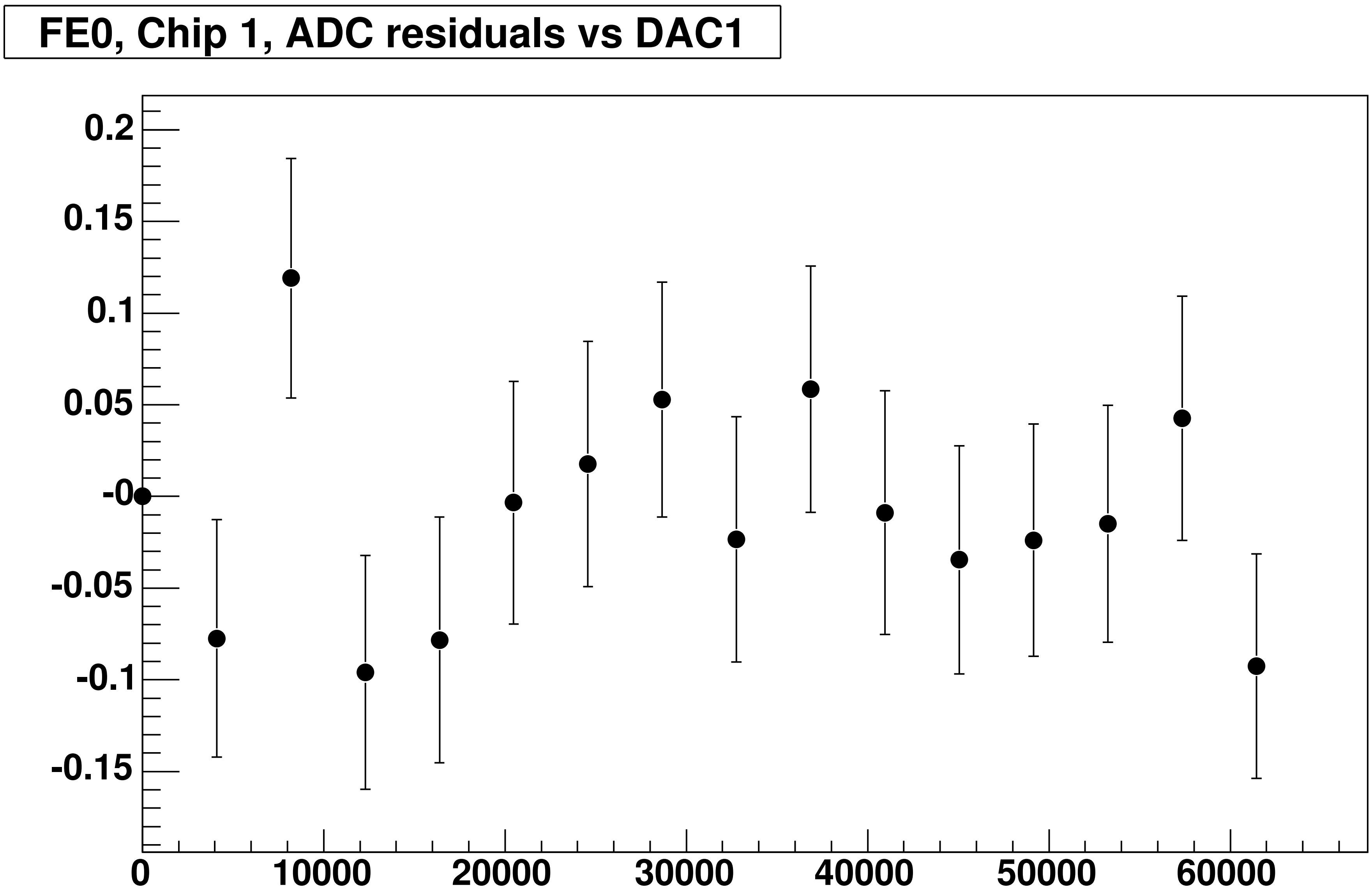

FE0, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

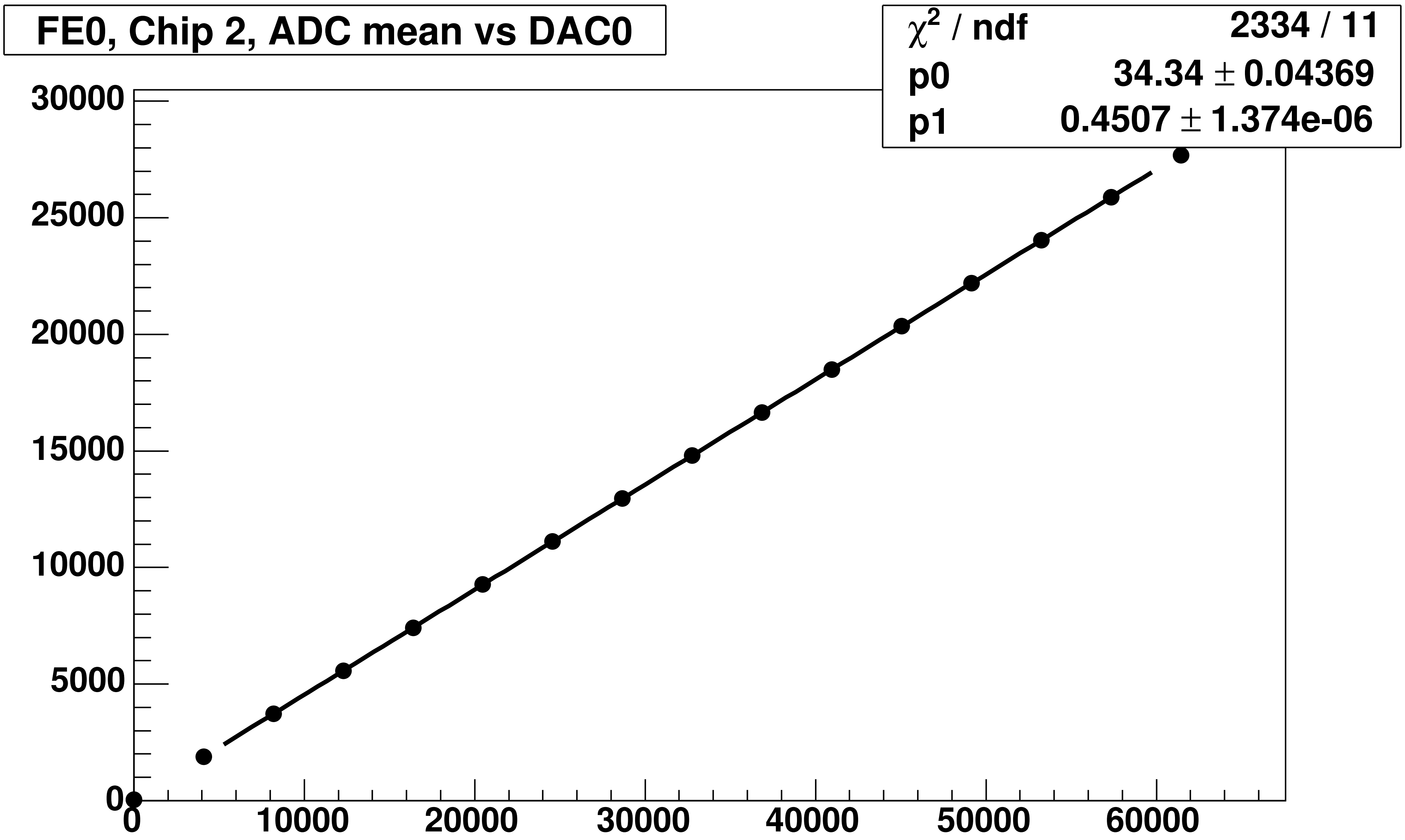


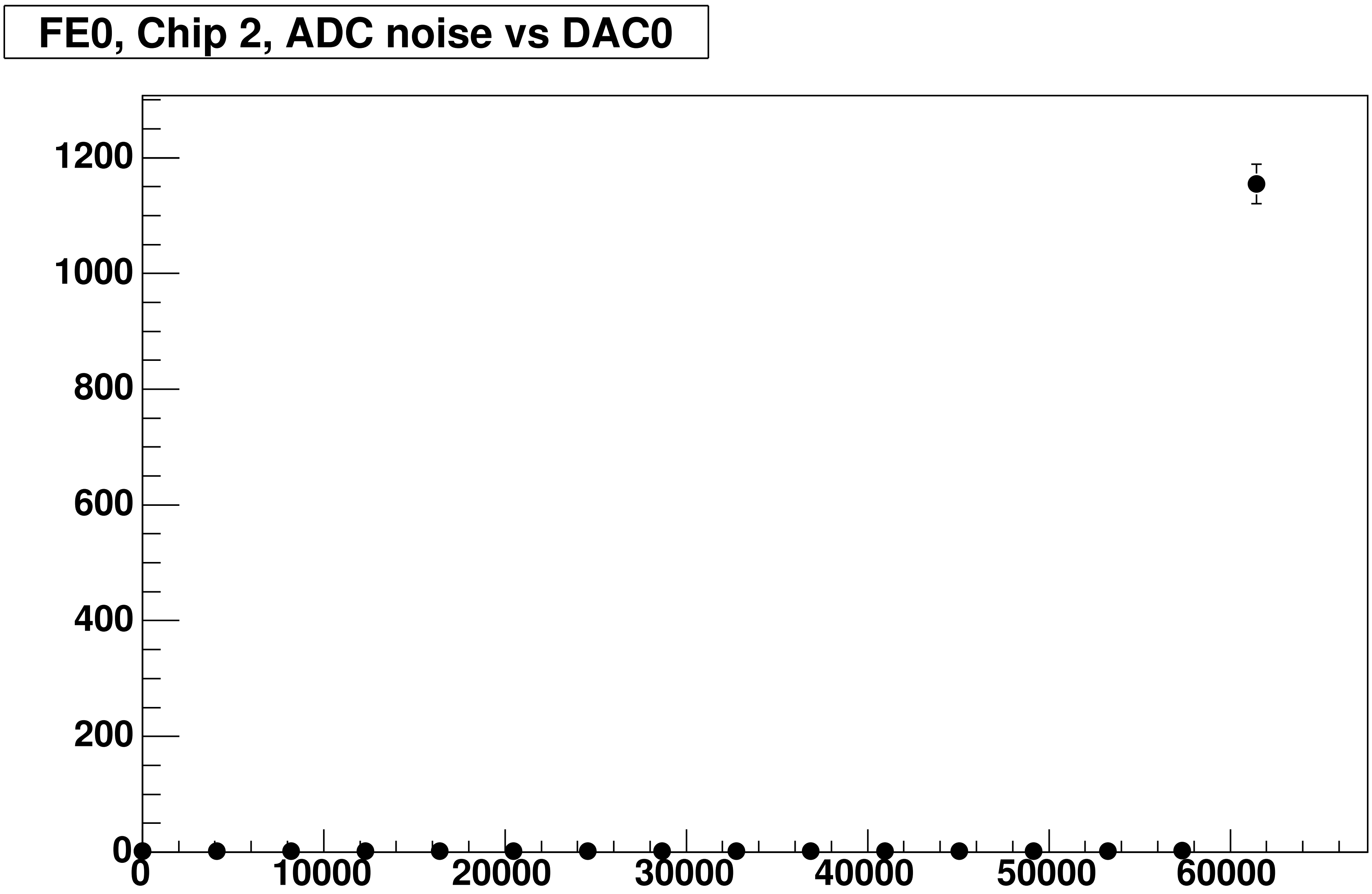
FE0, Chip 1, ADC mean vs DAC1
χ^2 / ndf 9.535 / 11
p0 31.35 ± 0.04278
p1 1.624e-06 ± 1.178e-06
31.55
31.5
31.45
31.4
31.35
31.3
31.25
31.2
0
10000
20000
30000
40000
50000
60000

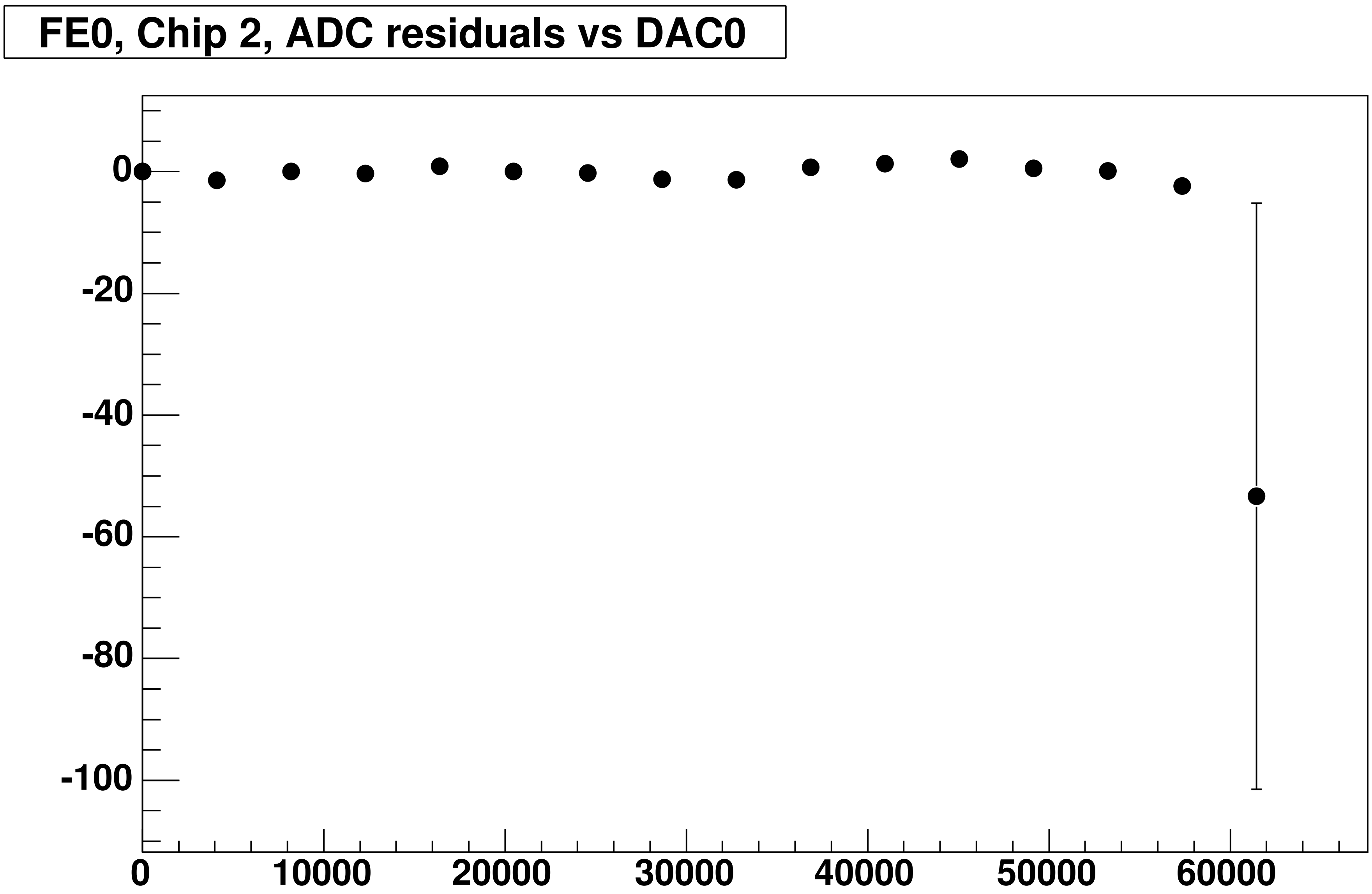


FE0, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

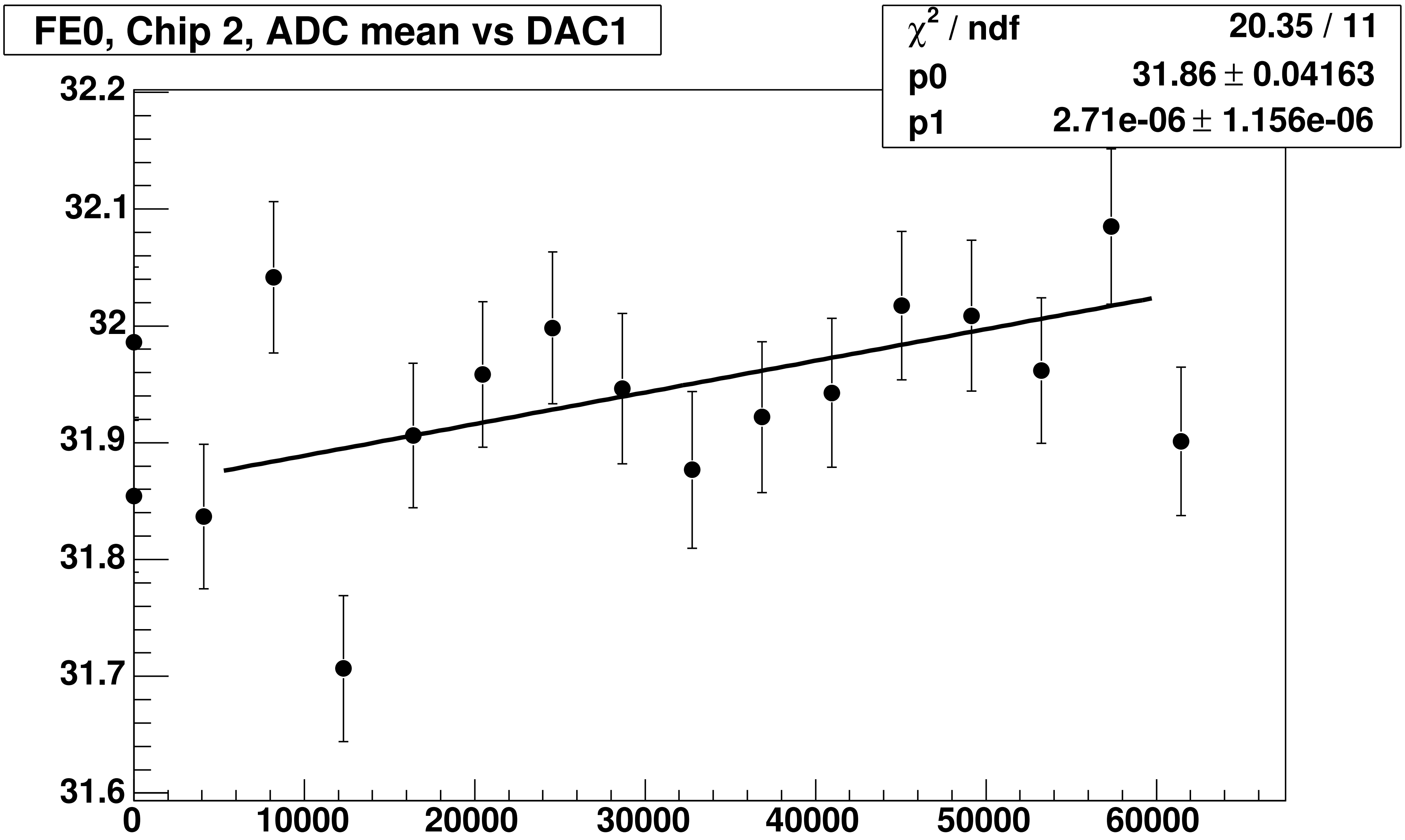

FE0, Chip 1, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

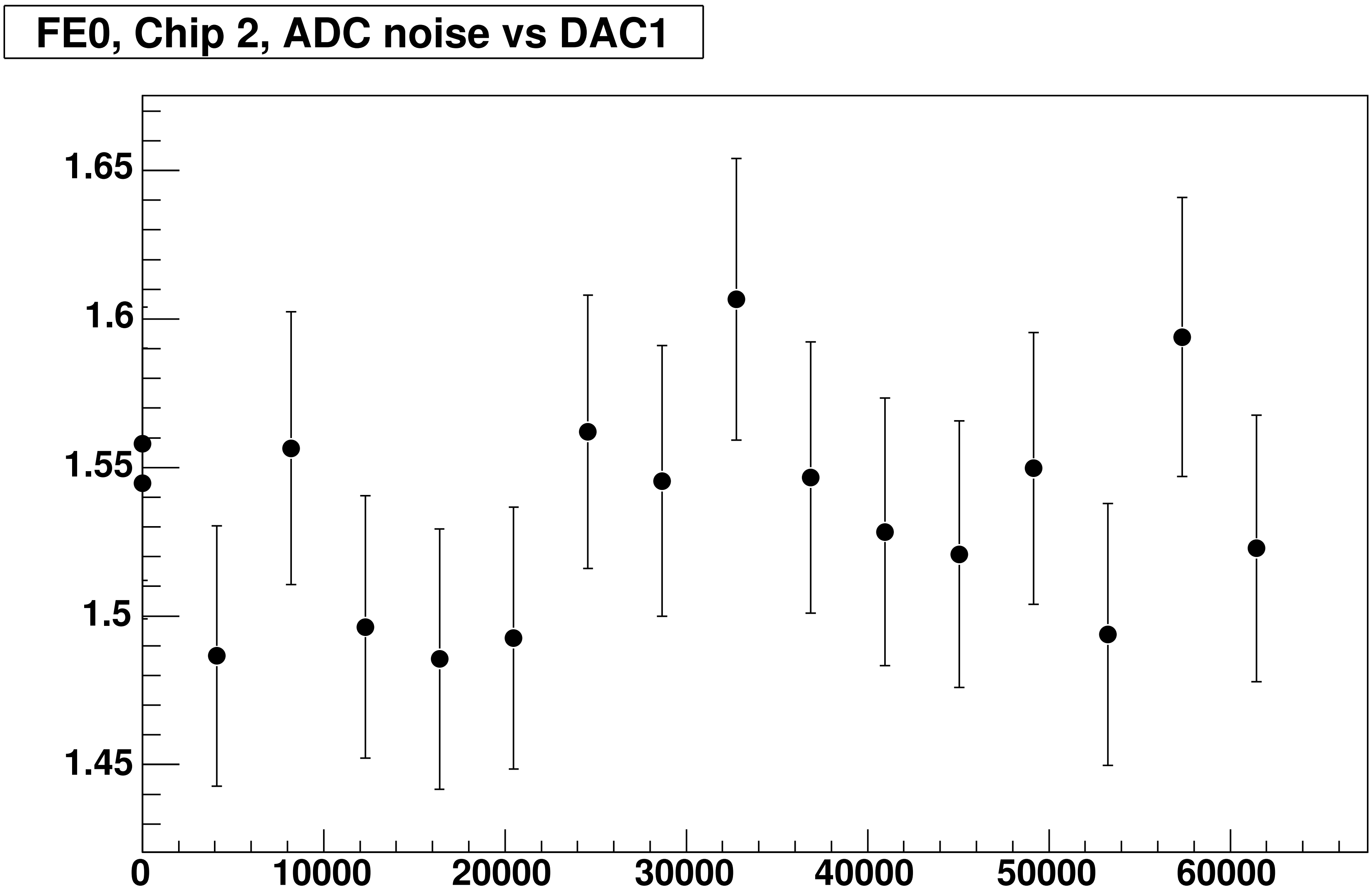

FE0, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2334 / 11
p0 34.34 ± 0.04369
p1 0.4507 ± 1.374e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

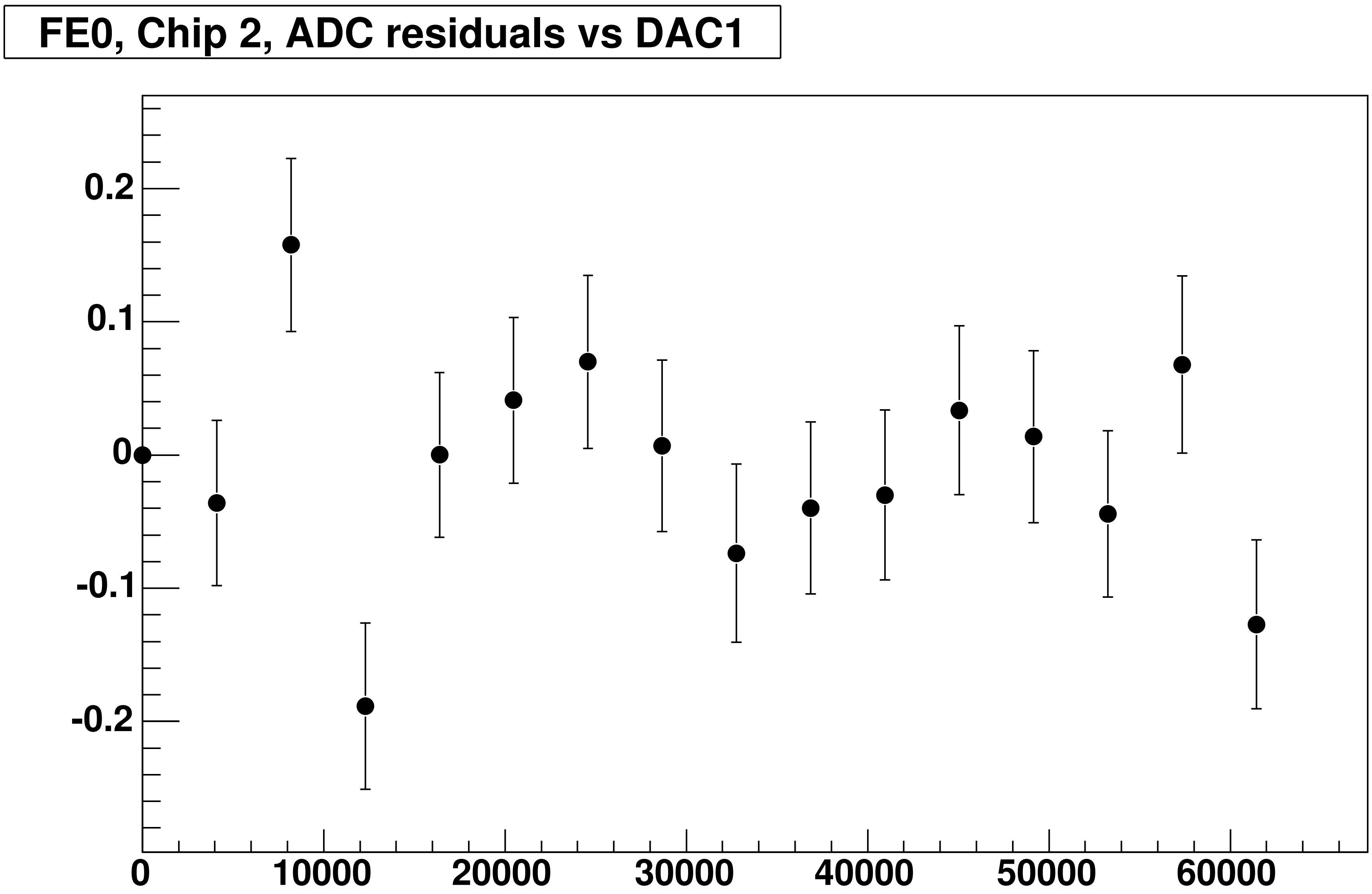

FE0, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

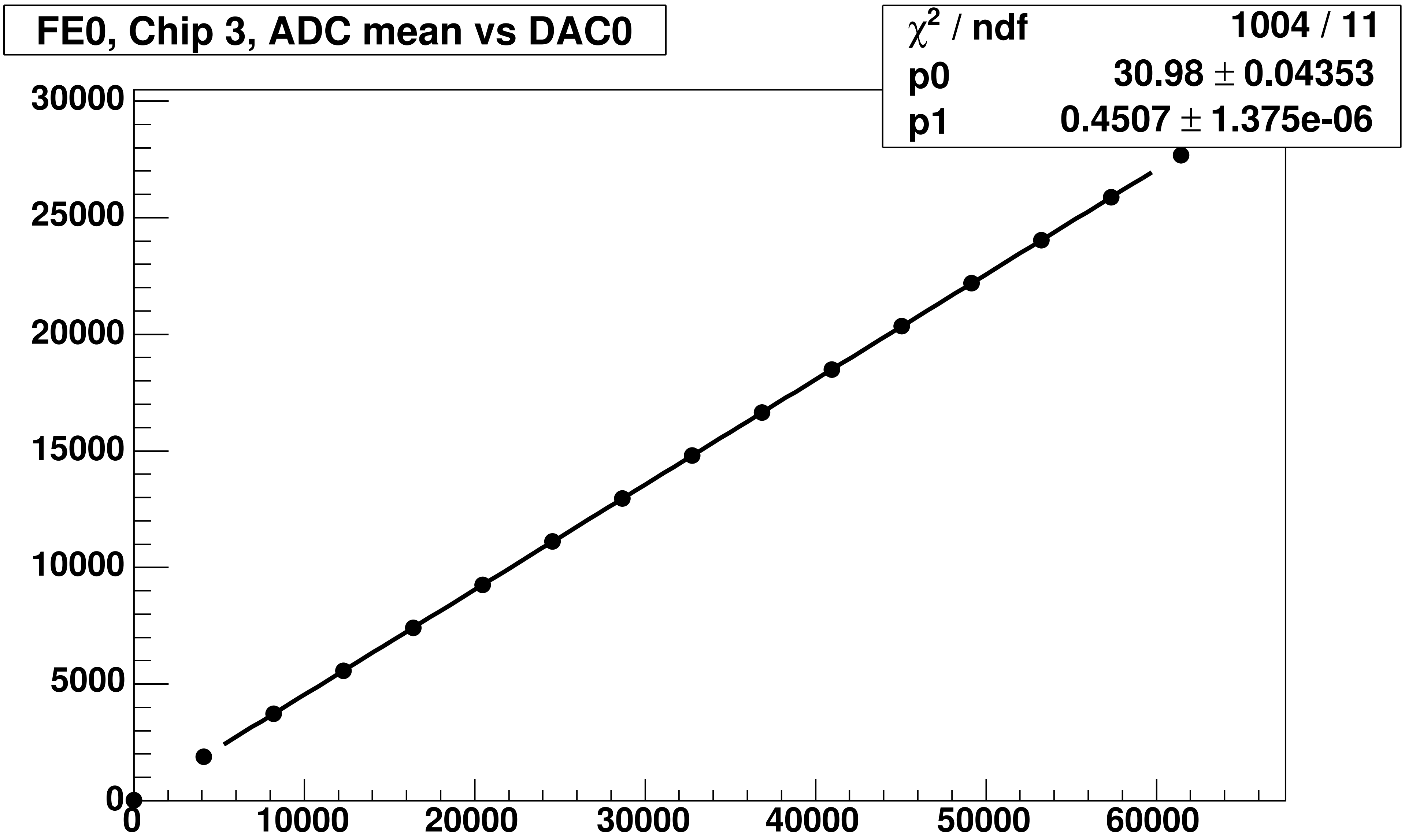


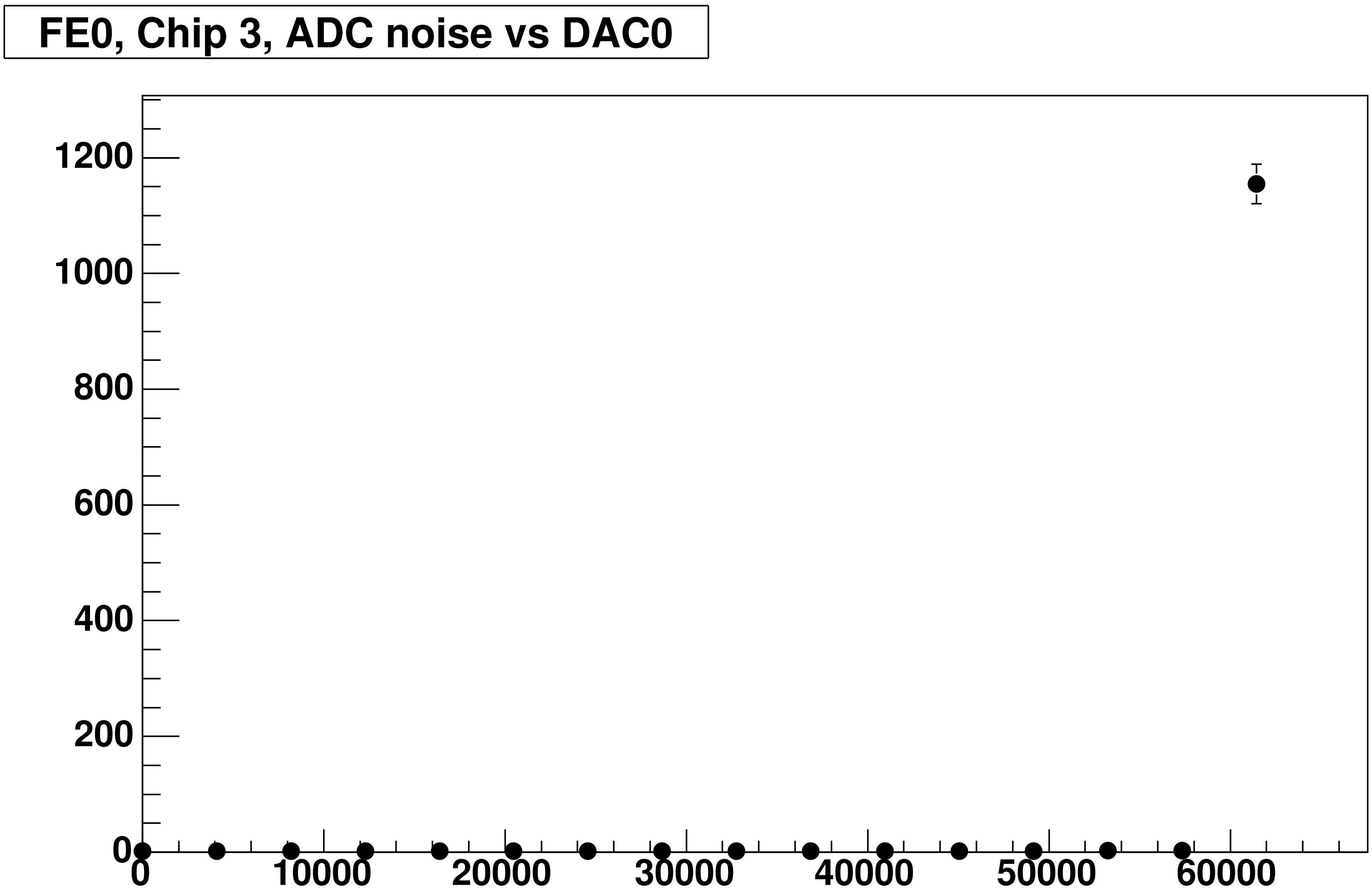
FE0, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

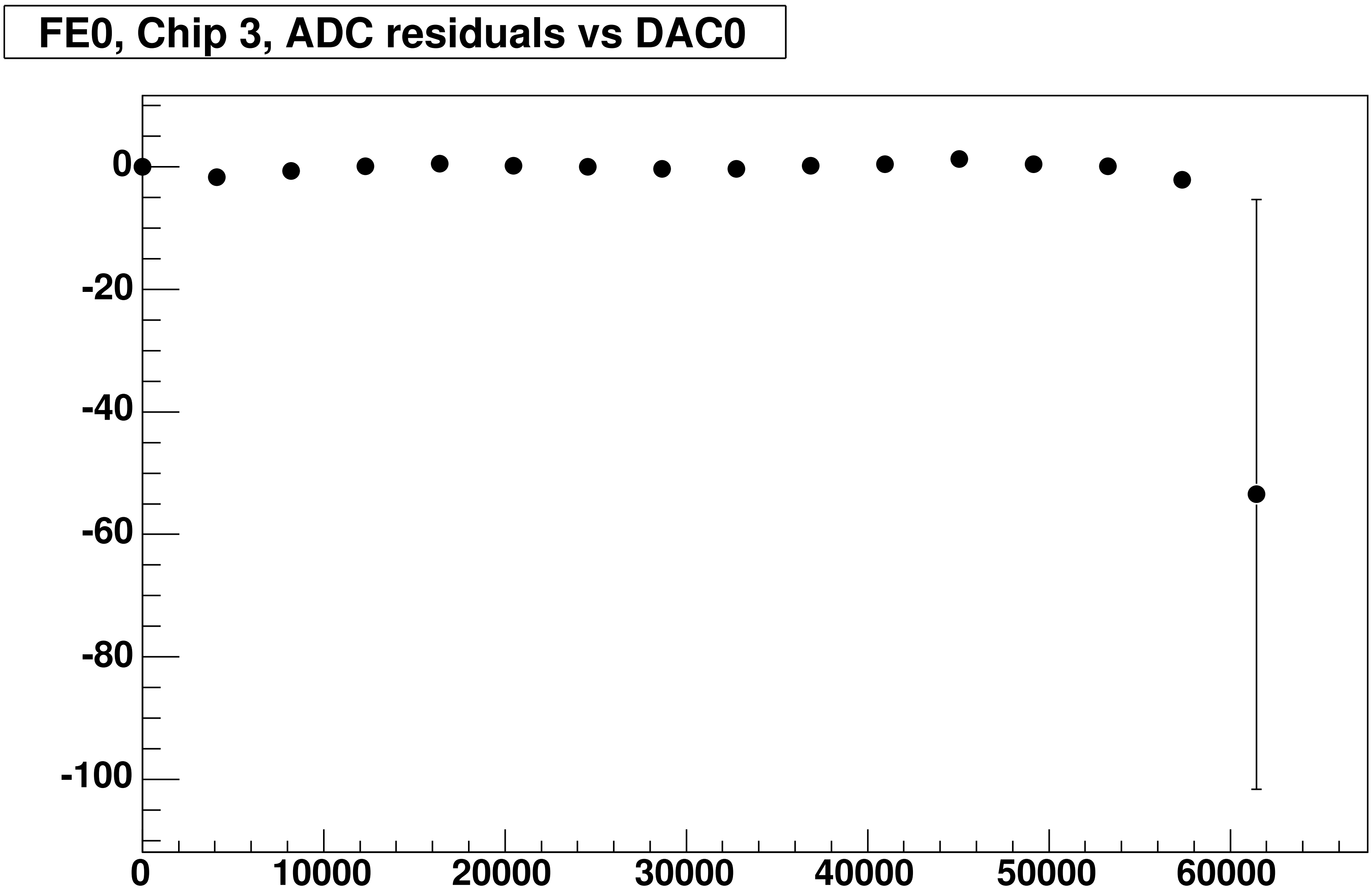

FE0, Chip 2, ADC mean vs DAC1
χ² / ndf 20.35 / 11
p0 31.86 ± 0.04163
p1 2.71e-06 ± 1.156e-06
32.2
32.1
32
31.9
31.8
31.7
31.6
0
10000
20000
30000
40000
50000
60000

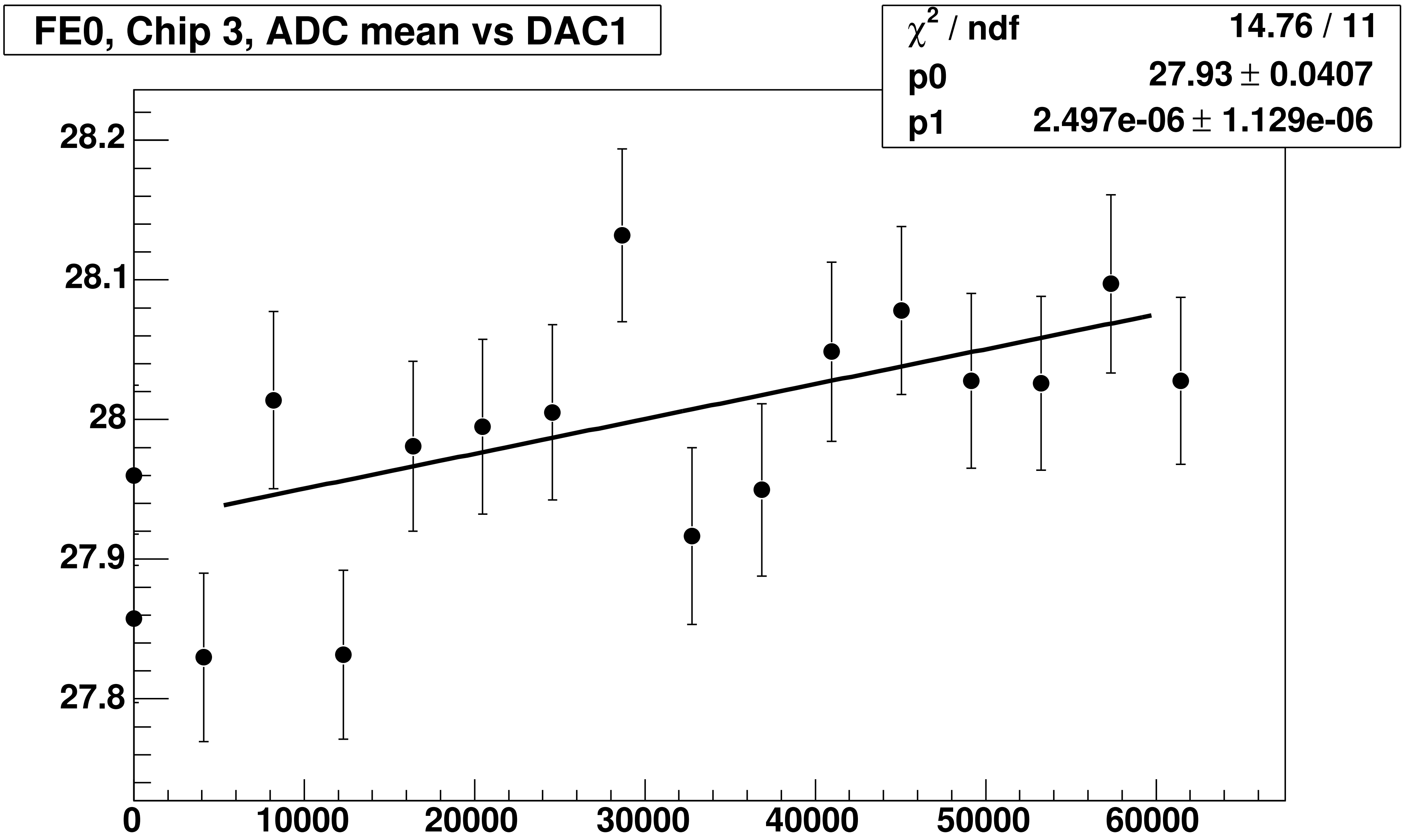

FE0, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

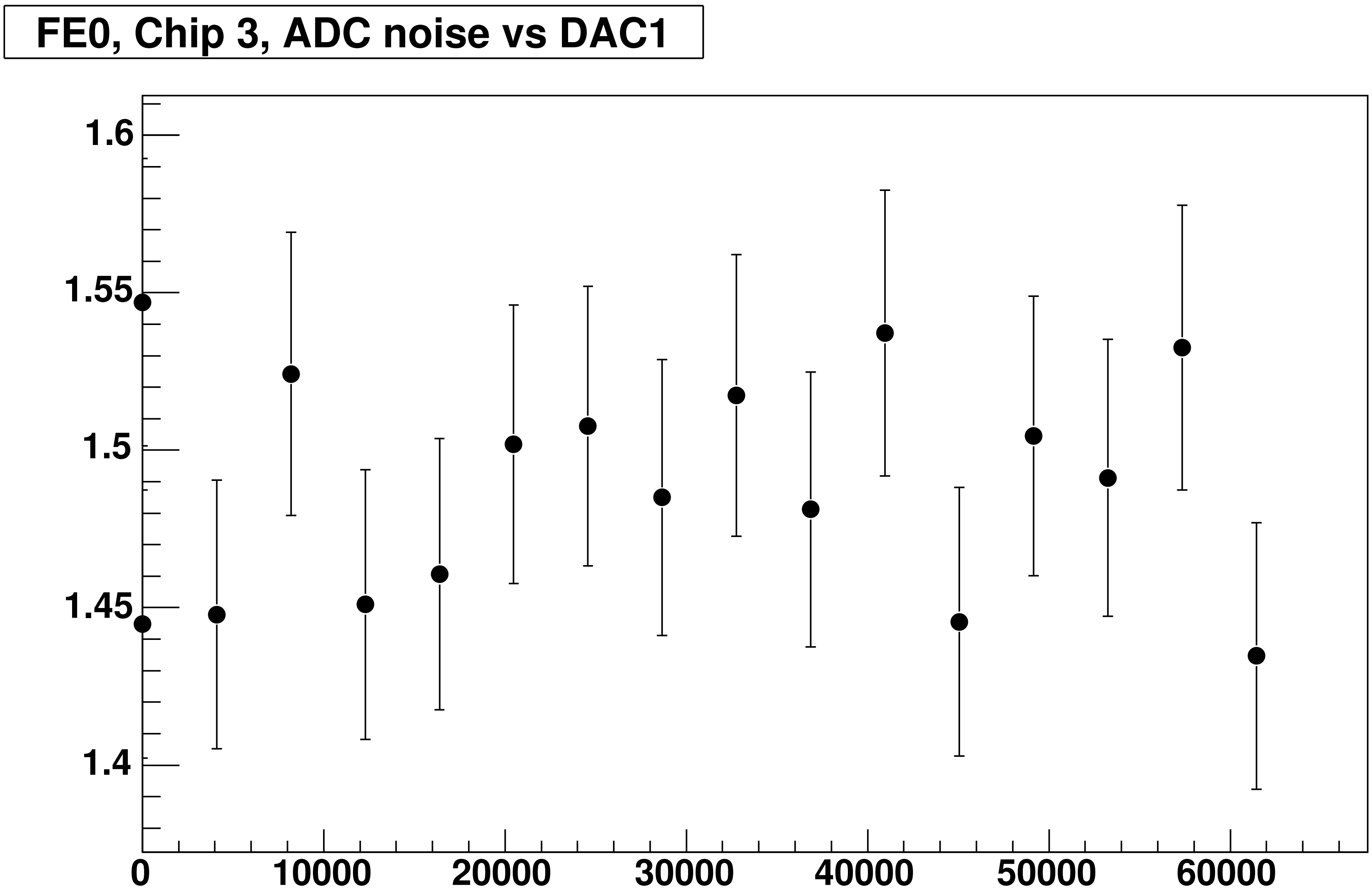

FE0, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

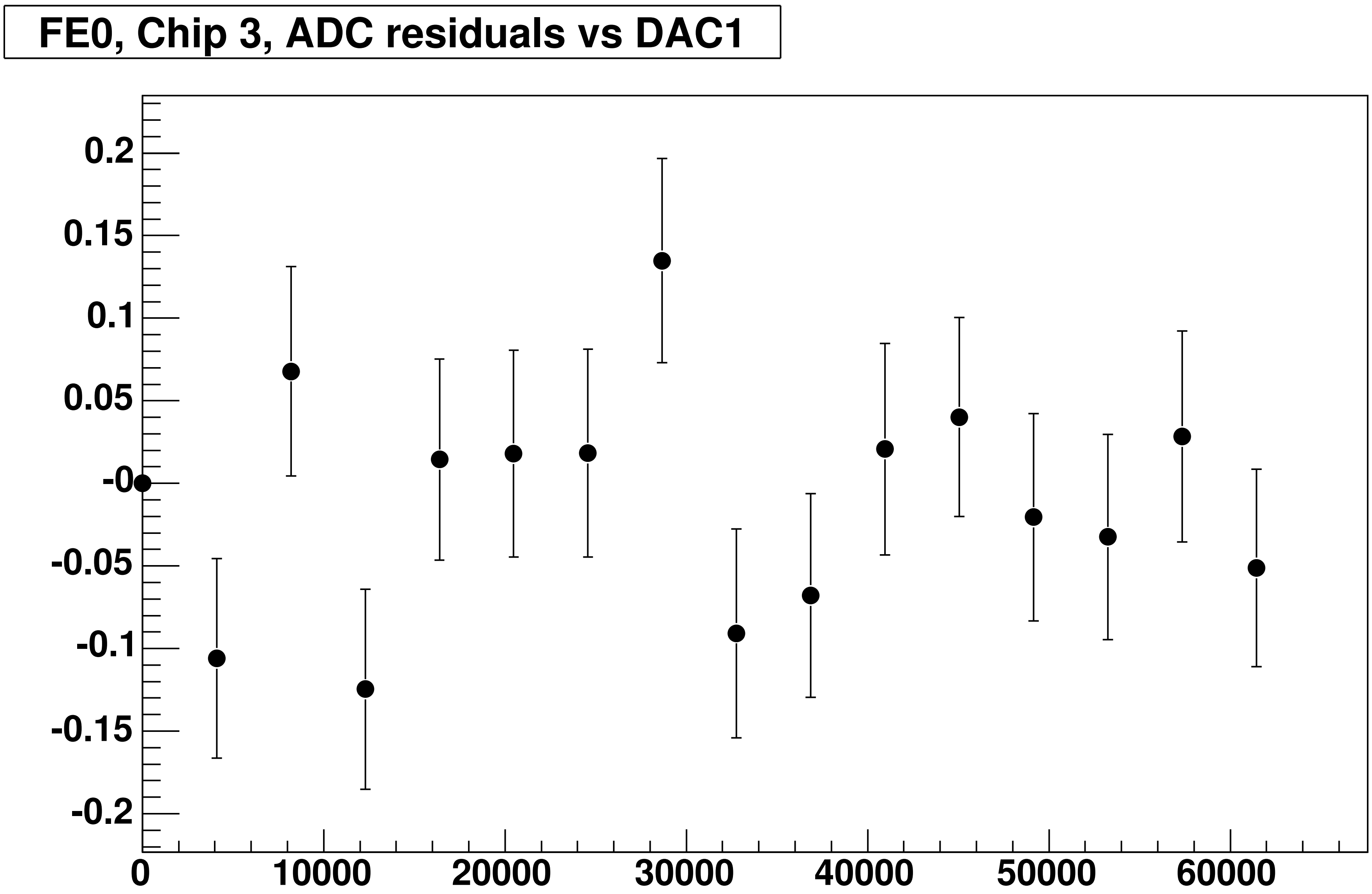

FE0, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1004 / 11
p0 30.98 ± 0.04353
p1 0.4507 ± 1.375e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

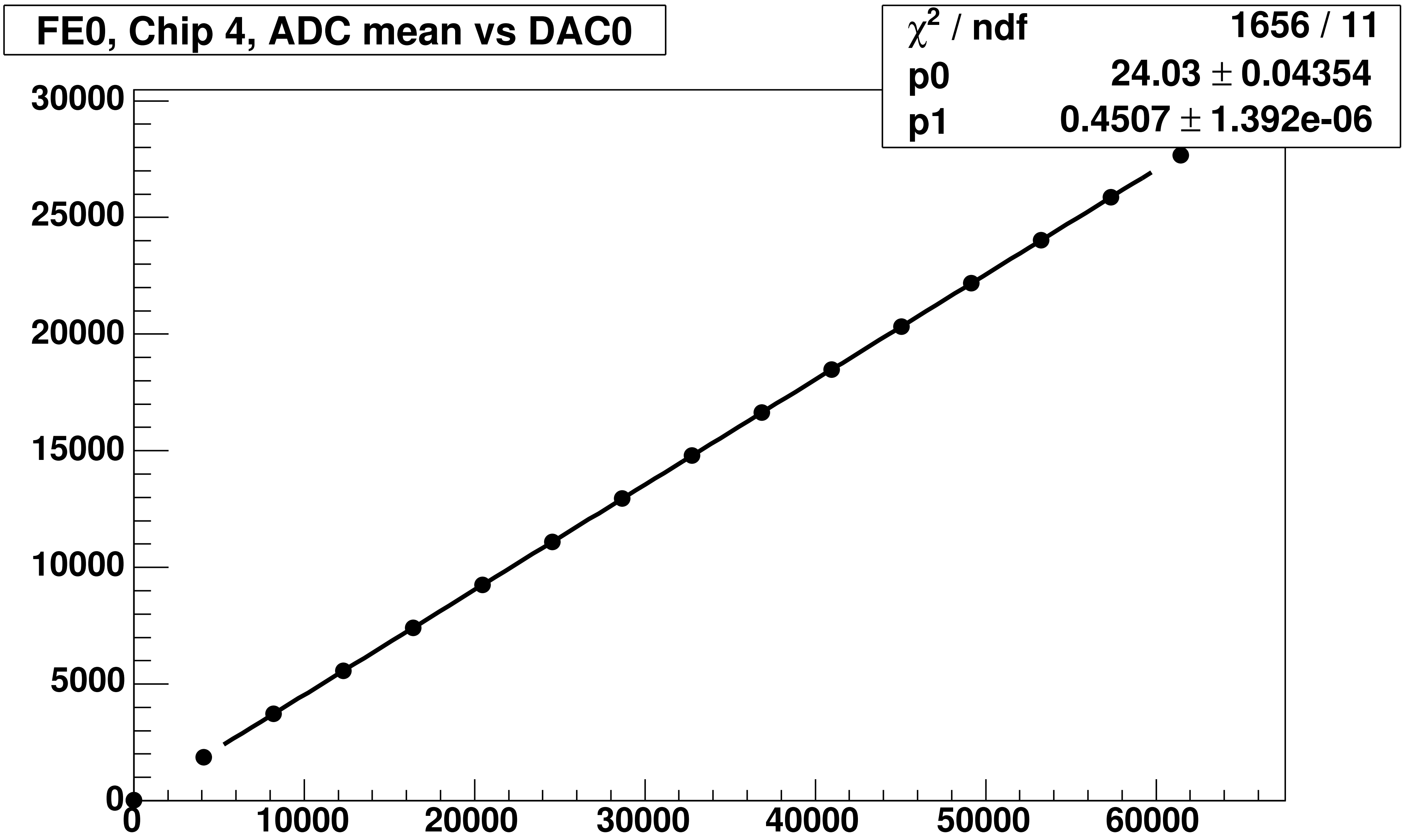

FE0, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

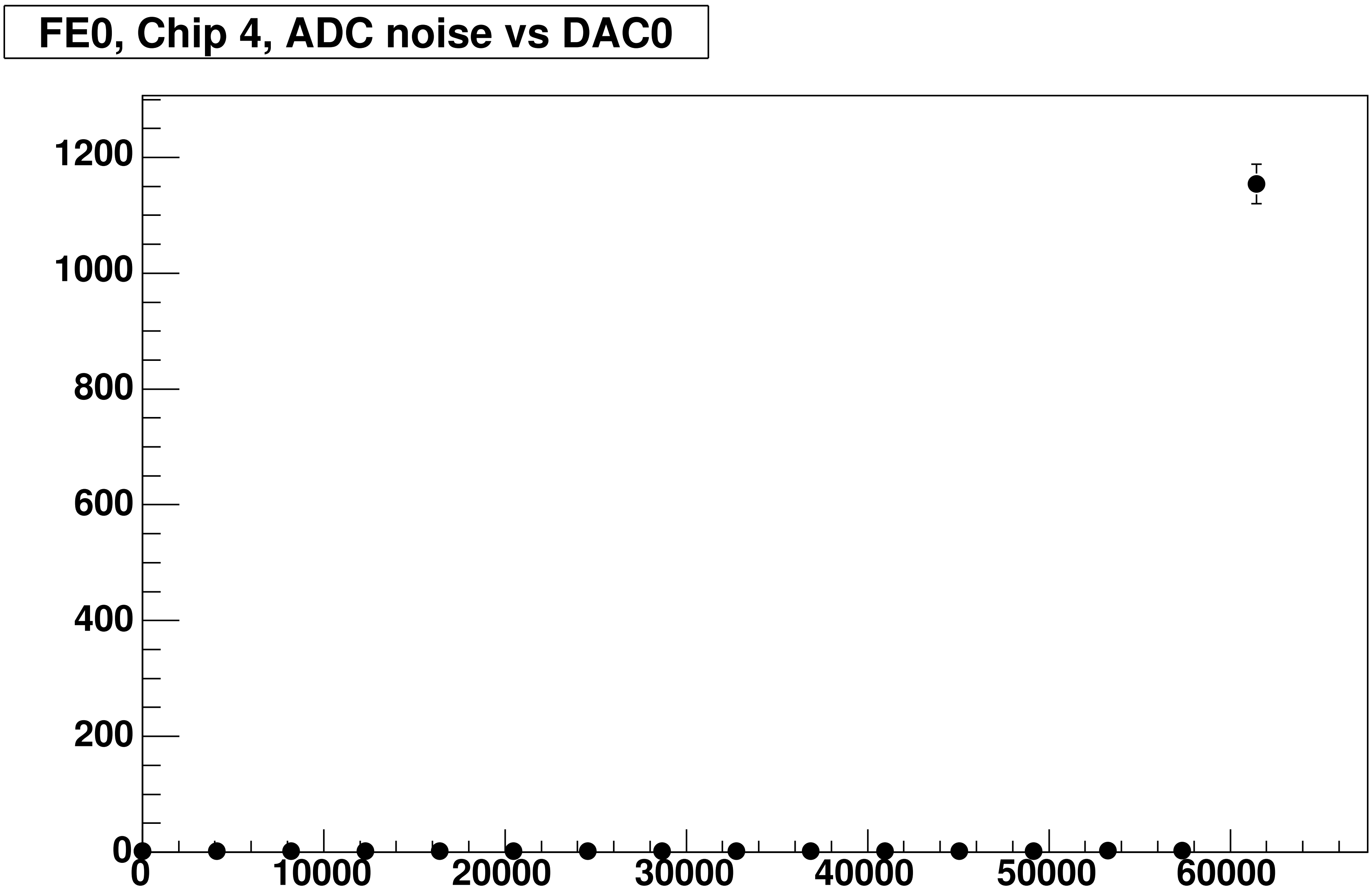

FE0, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE0, Chip 3, ADC mean vs DAC1
χ^2 / ndf 14.76 / 11
p0 27.93 ± 0.0407
p1 2.497e-06 ± 1.129e-06
28.2
28.1
28
27.9
27.8
0
10000
20000
30000
40000
50000
60000

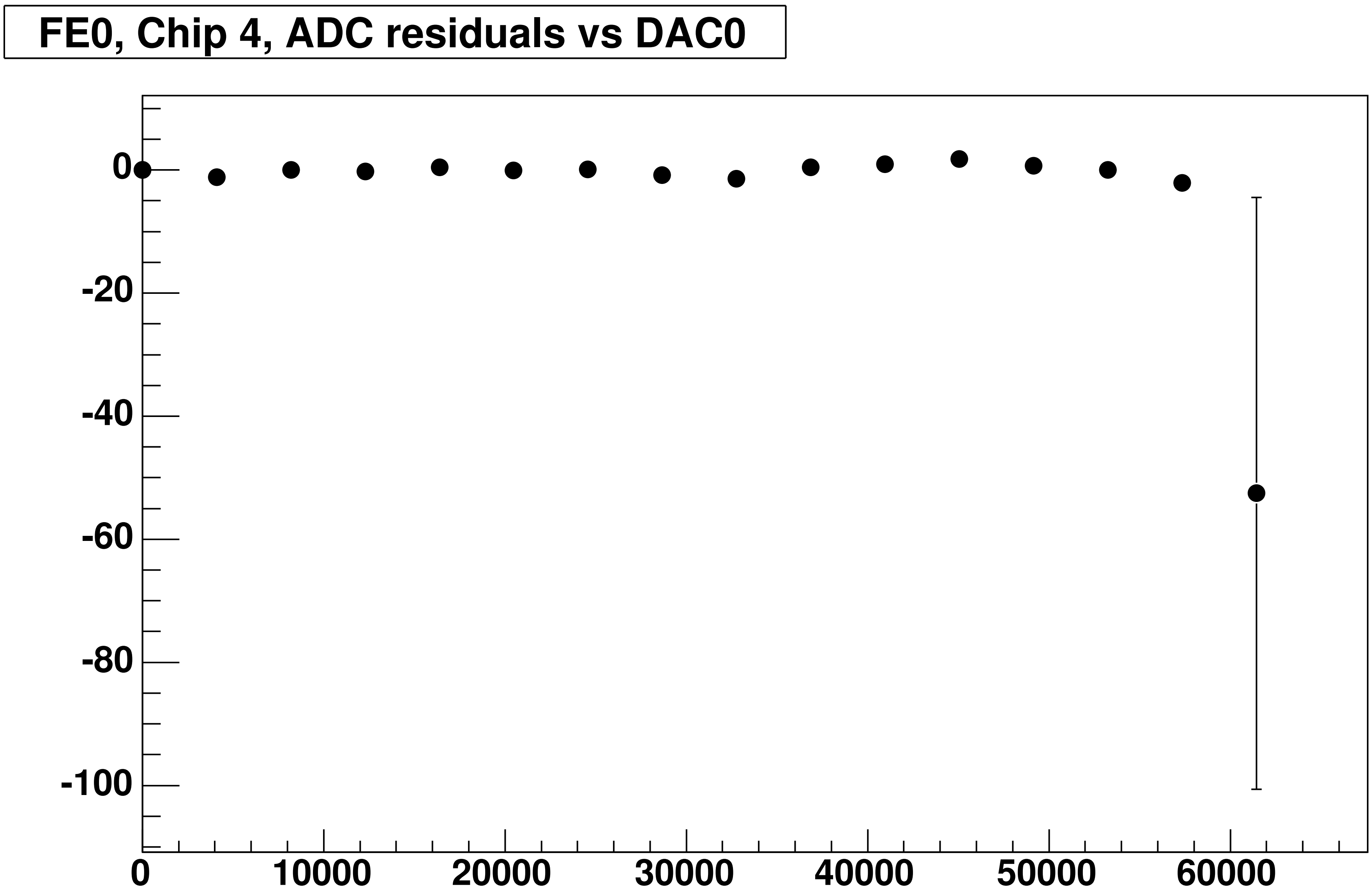

FE0, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


FE0, Chip 3, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

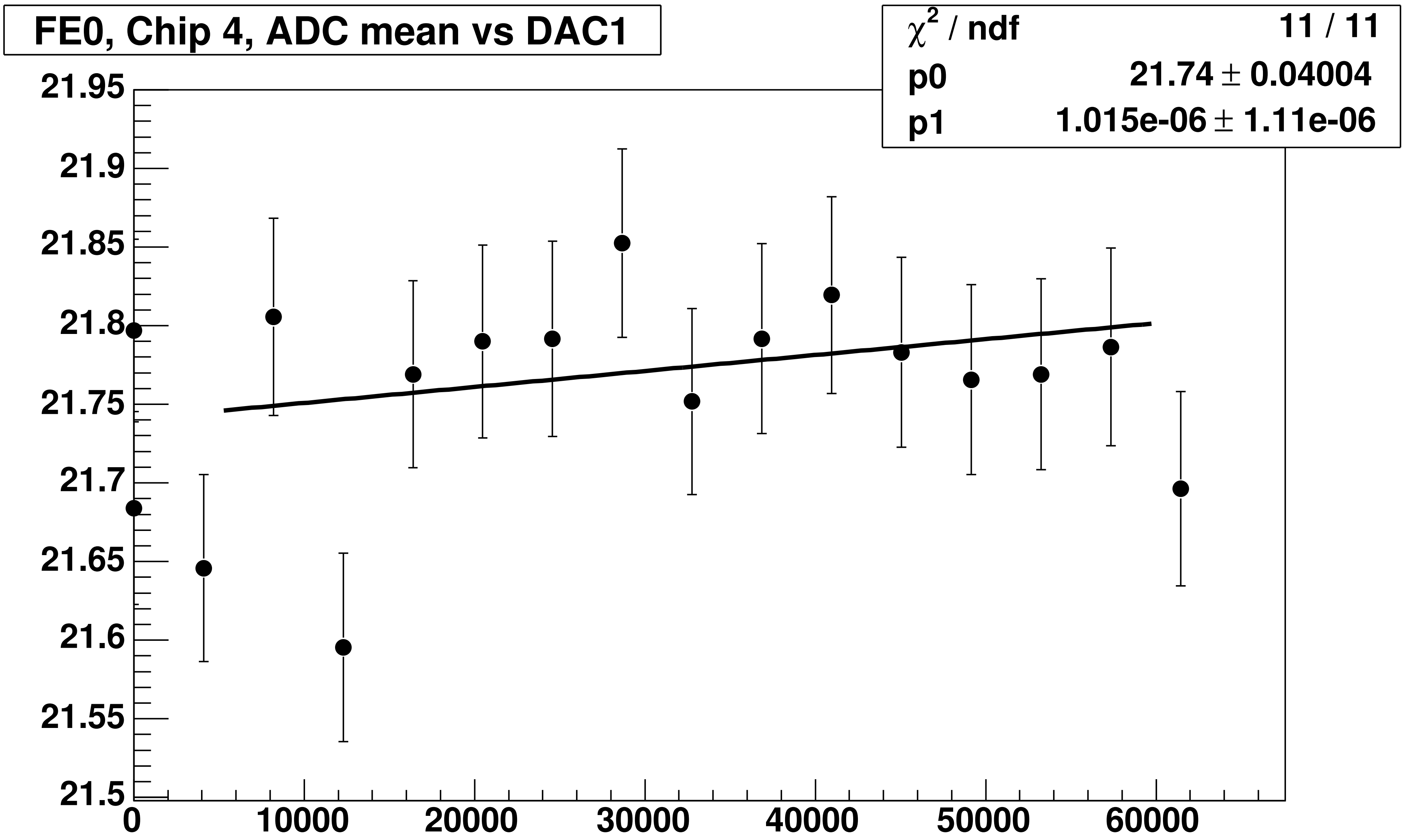

FE0, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1656 / 11
p0 24.03 ± 0.04354
p1 0.4507 ± 1.392e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



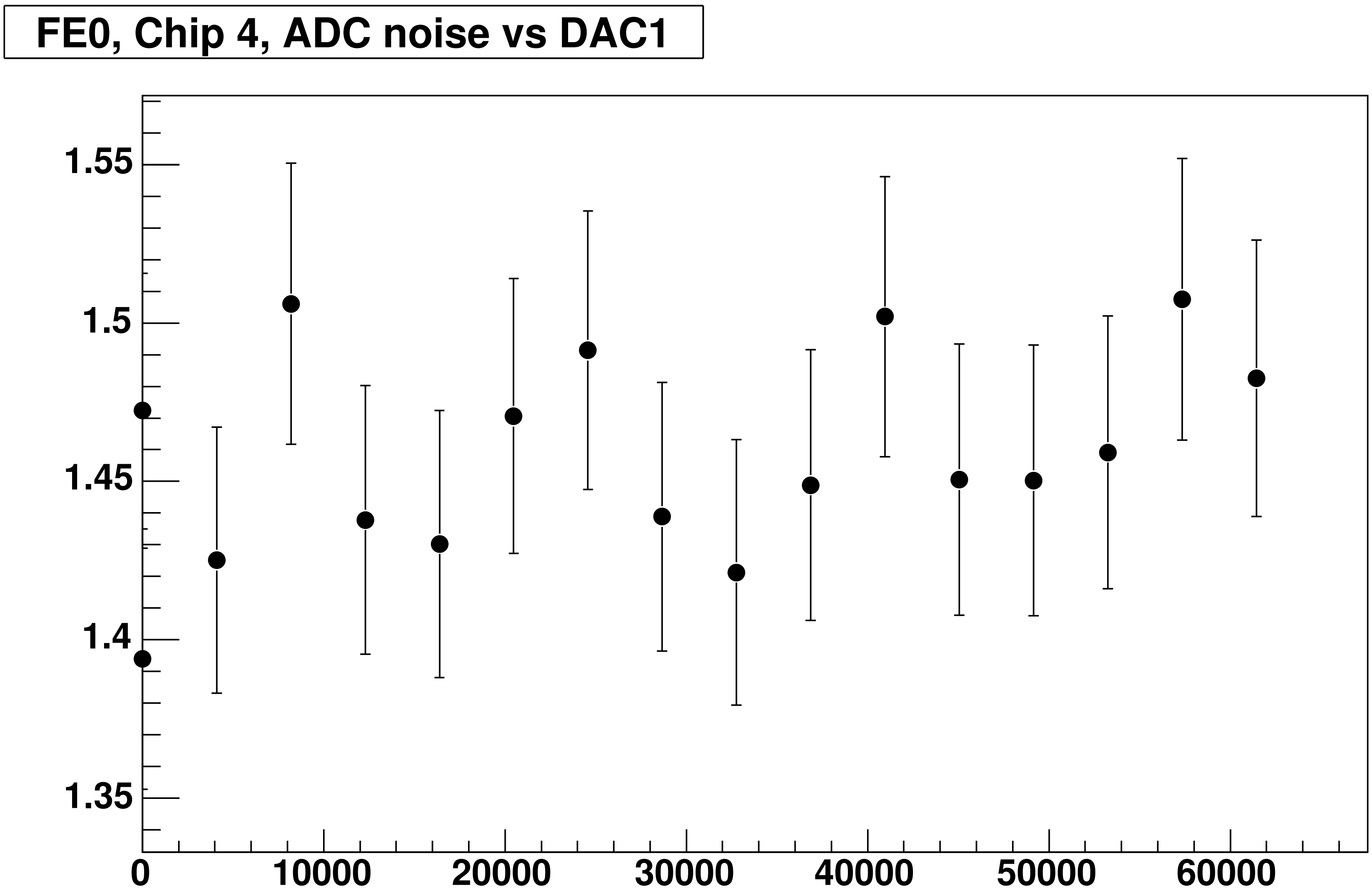
FE0, Chip 4, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

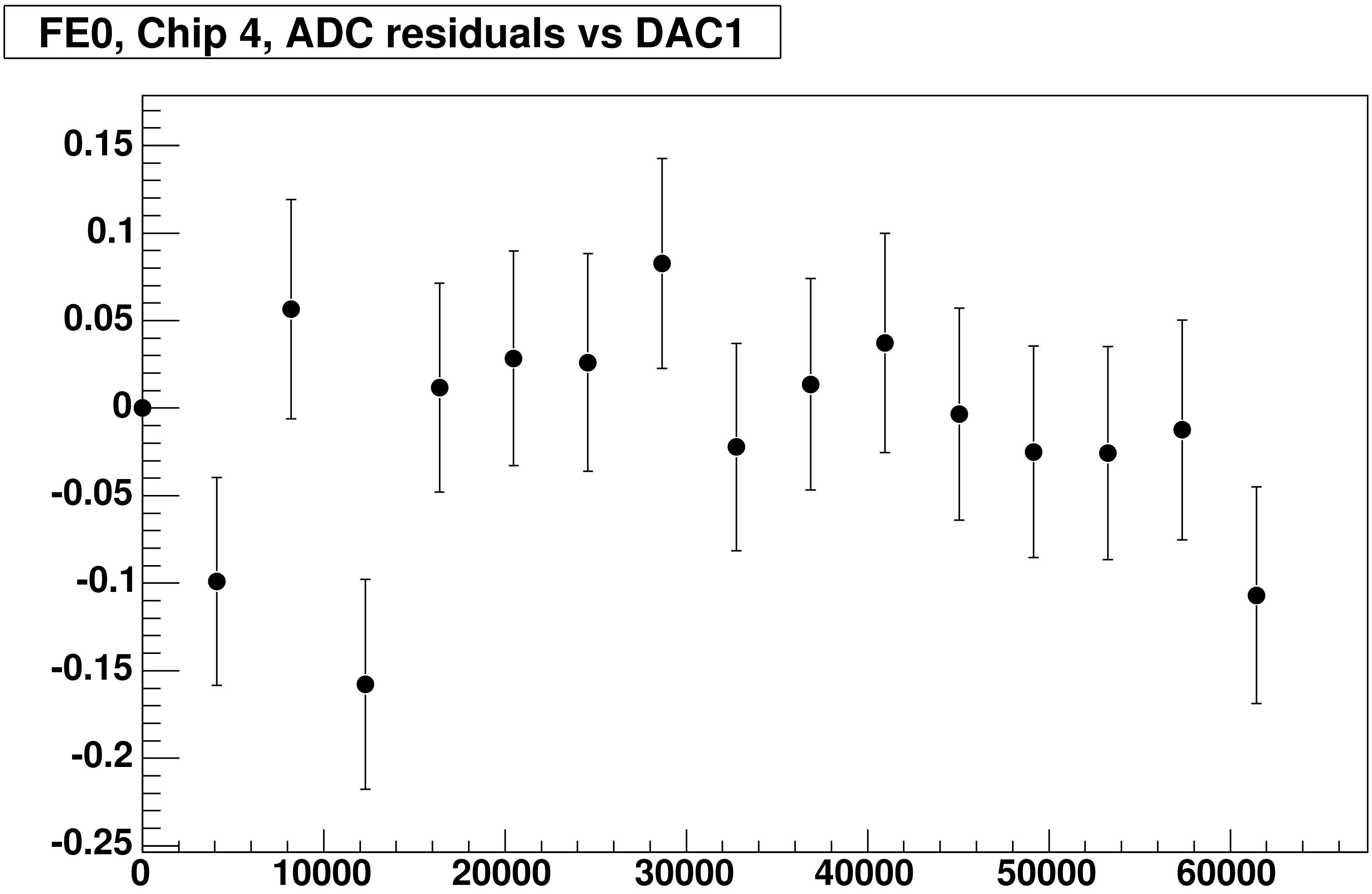


FE0, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

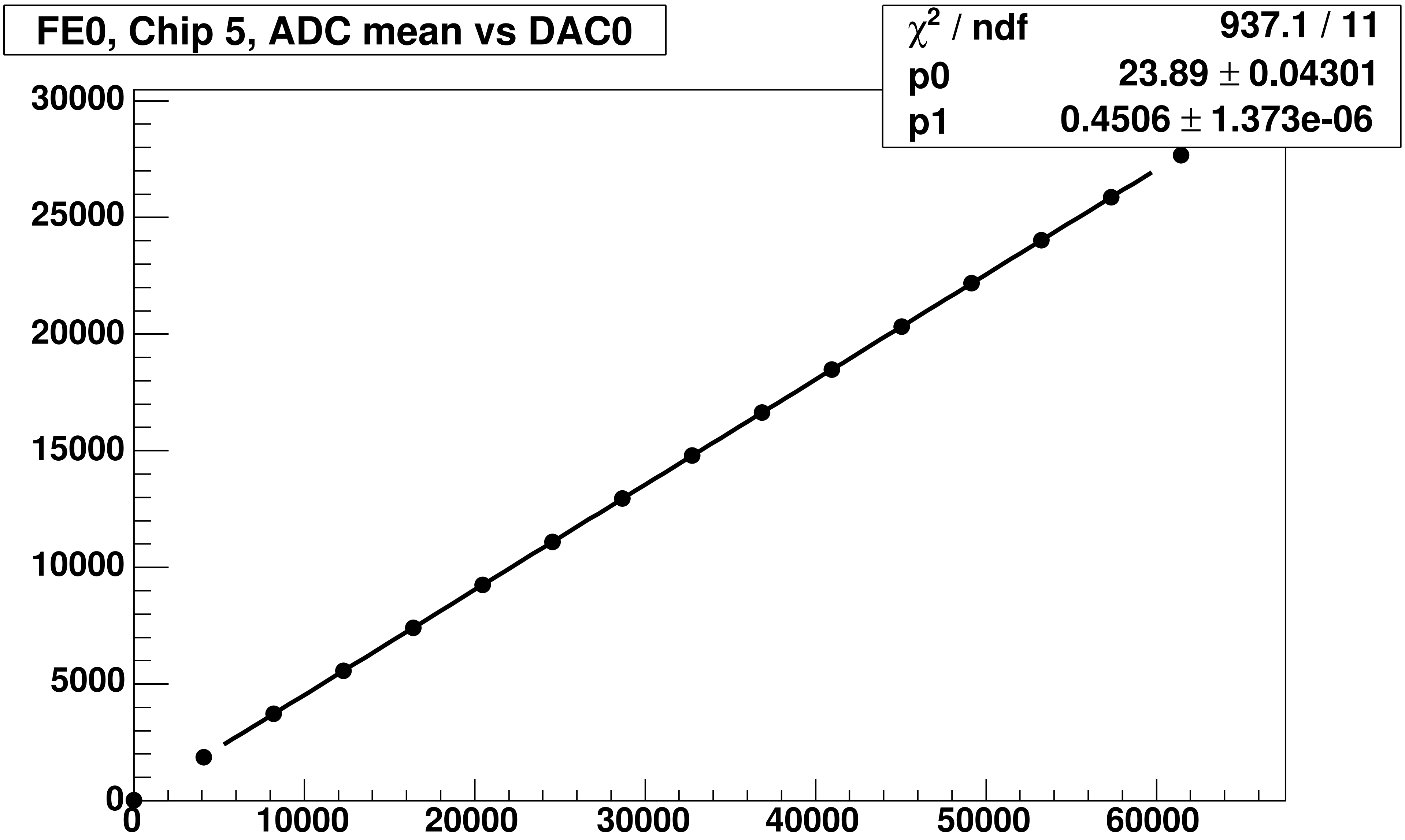


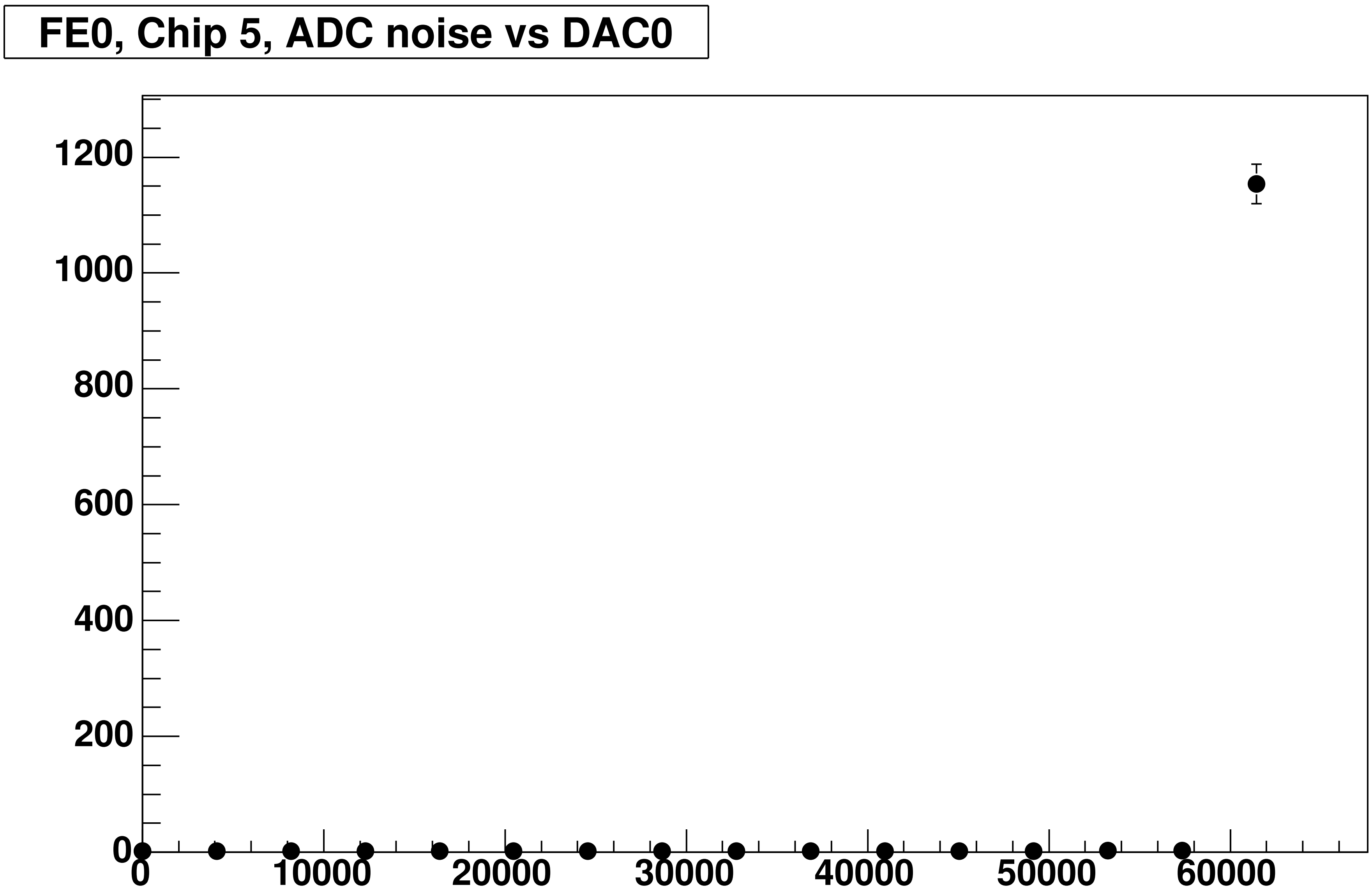
FE0, Chip 4, ADC mean vs DAC1
χ² / ndf 11 / 11
p0 21.74 ± 0.04004
p1 1.015e-06 ± 1.11e-06
21.95
21.9
21.85
21.8
21.75
21.7
21.65
21.6
21.55
21.5
0
10000
20000
30000
40000
50000
60000

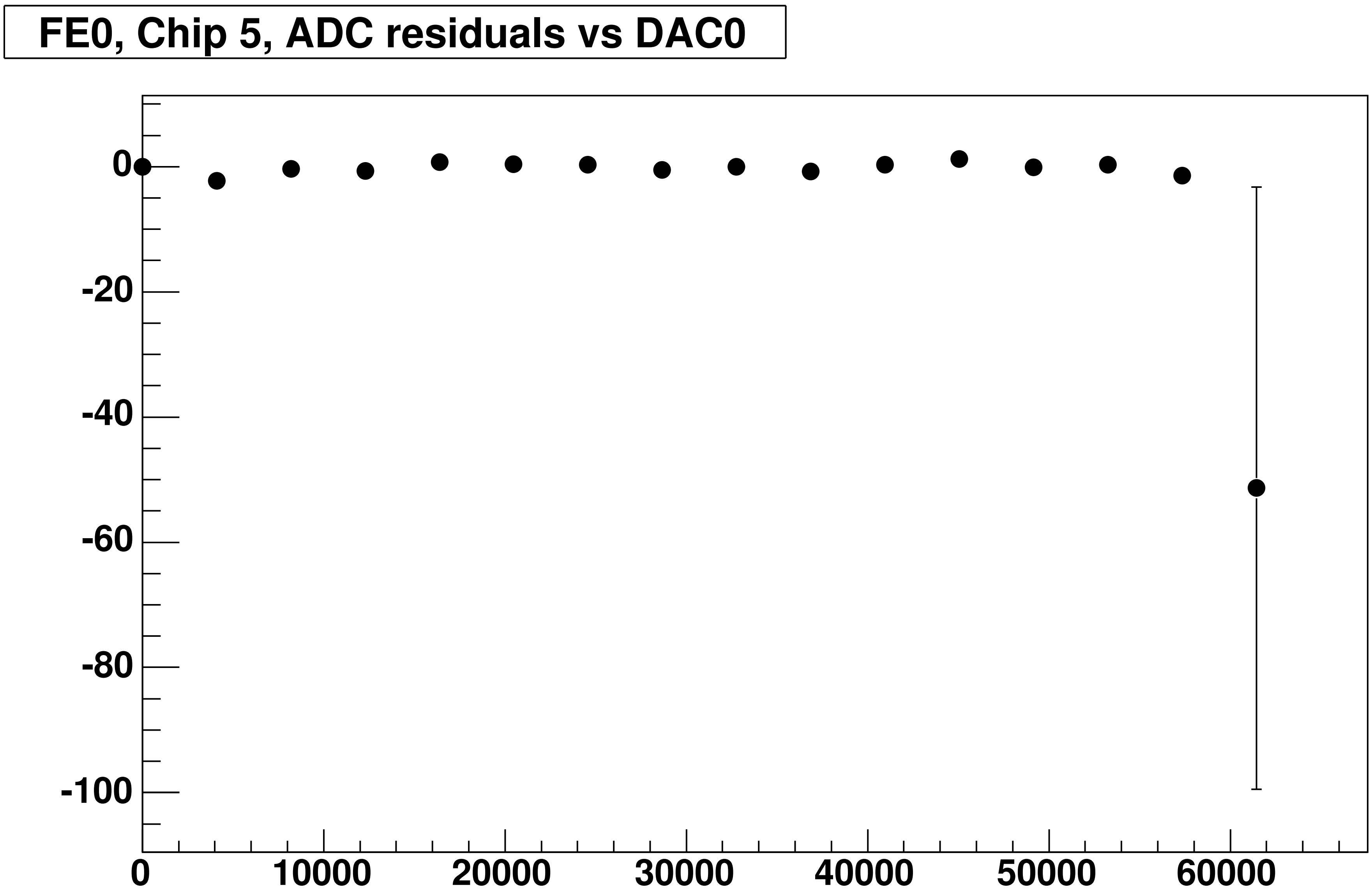

FE0, Chip 4, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



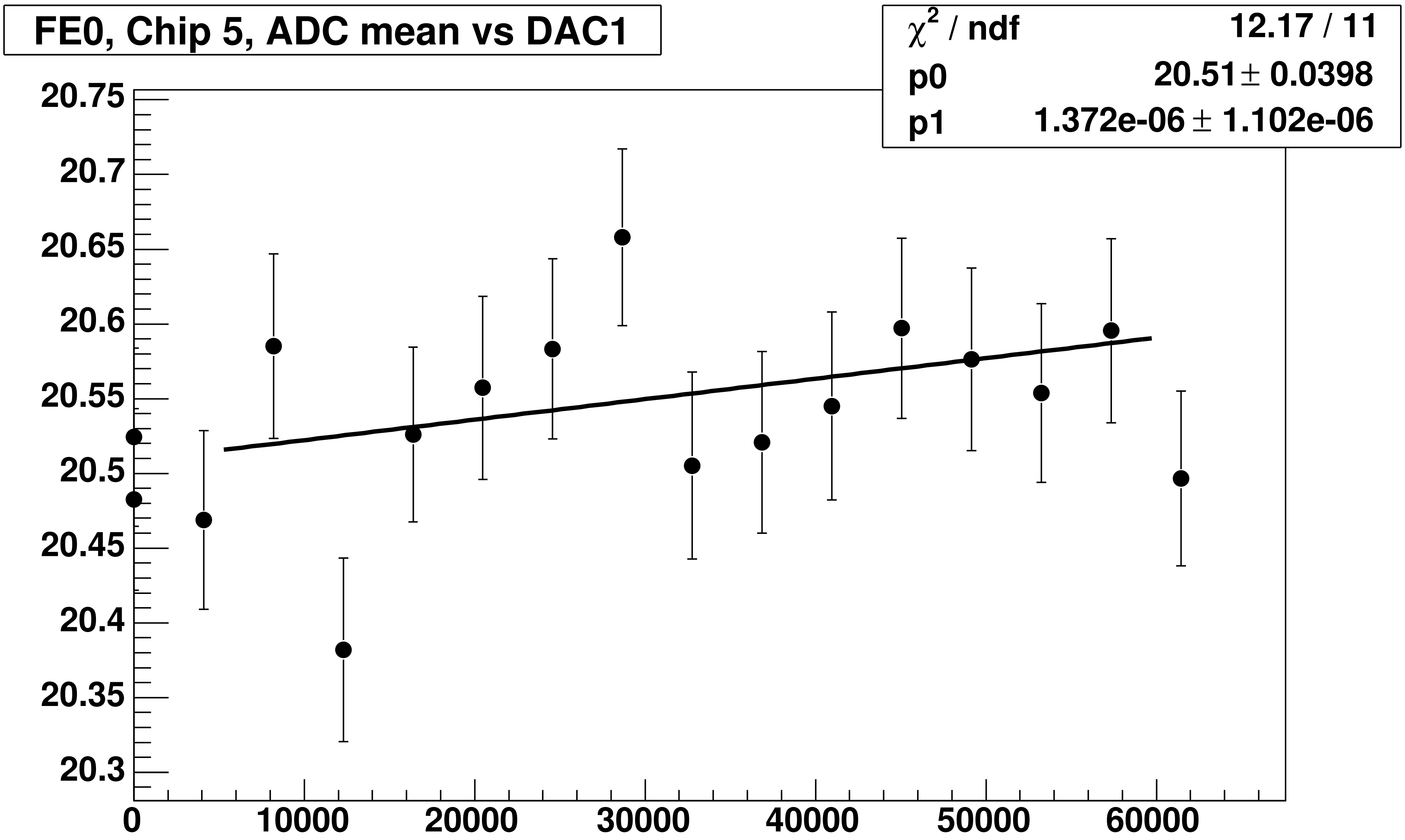
FE0, Chip 4, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

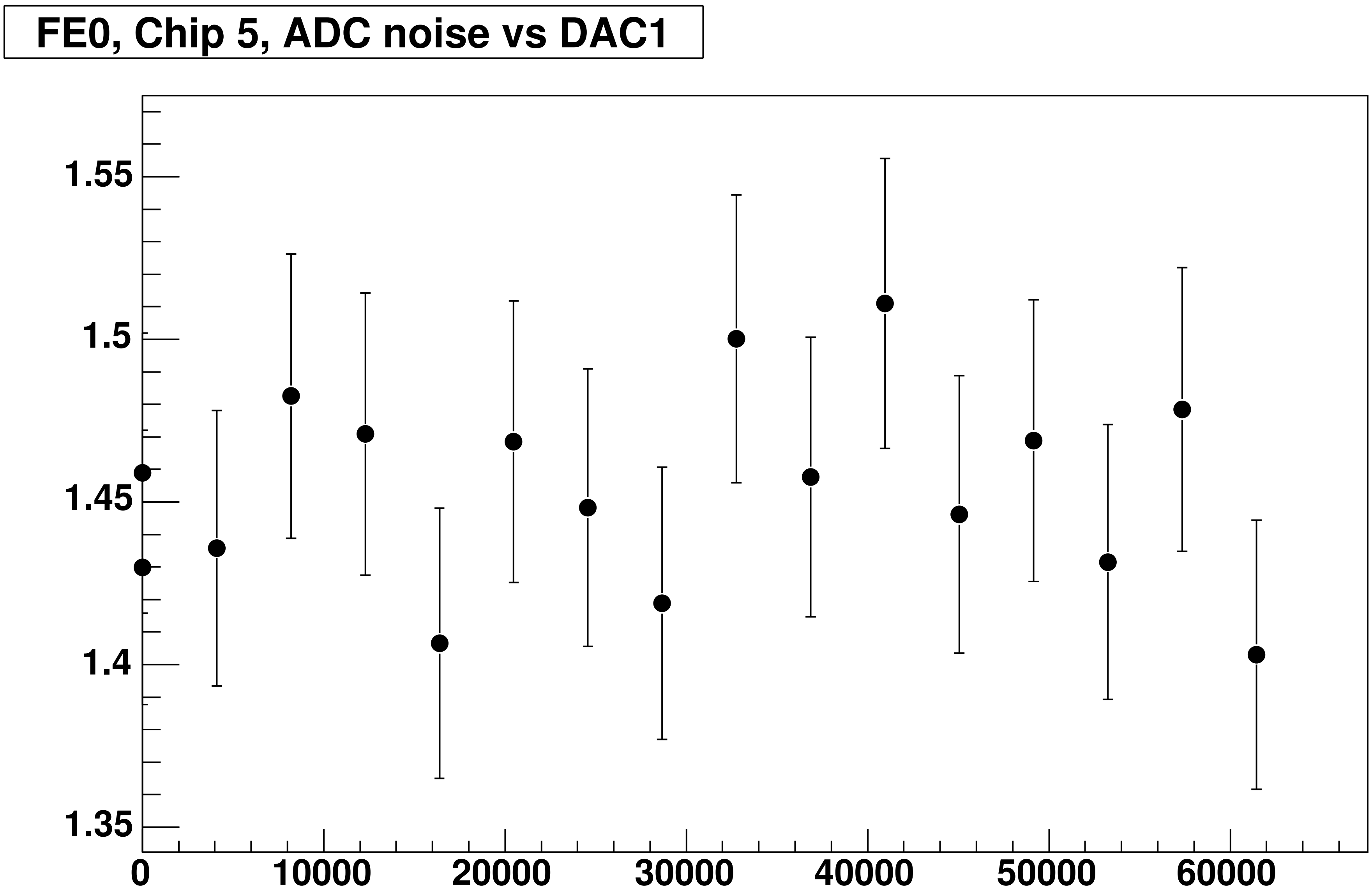

FE0, Chip 5, ADC mean vs DAC0
χ^2 / ndf 937.1 / 11
p0 23.89 ± 0.04301
p1 0.4506 ± 1.373e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

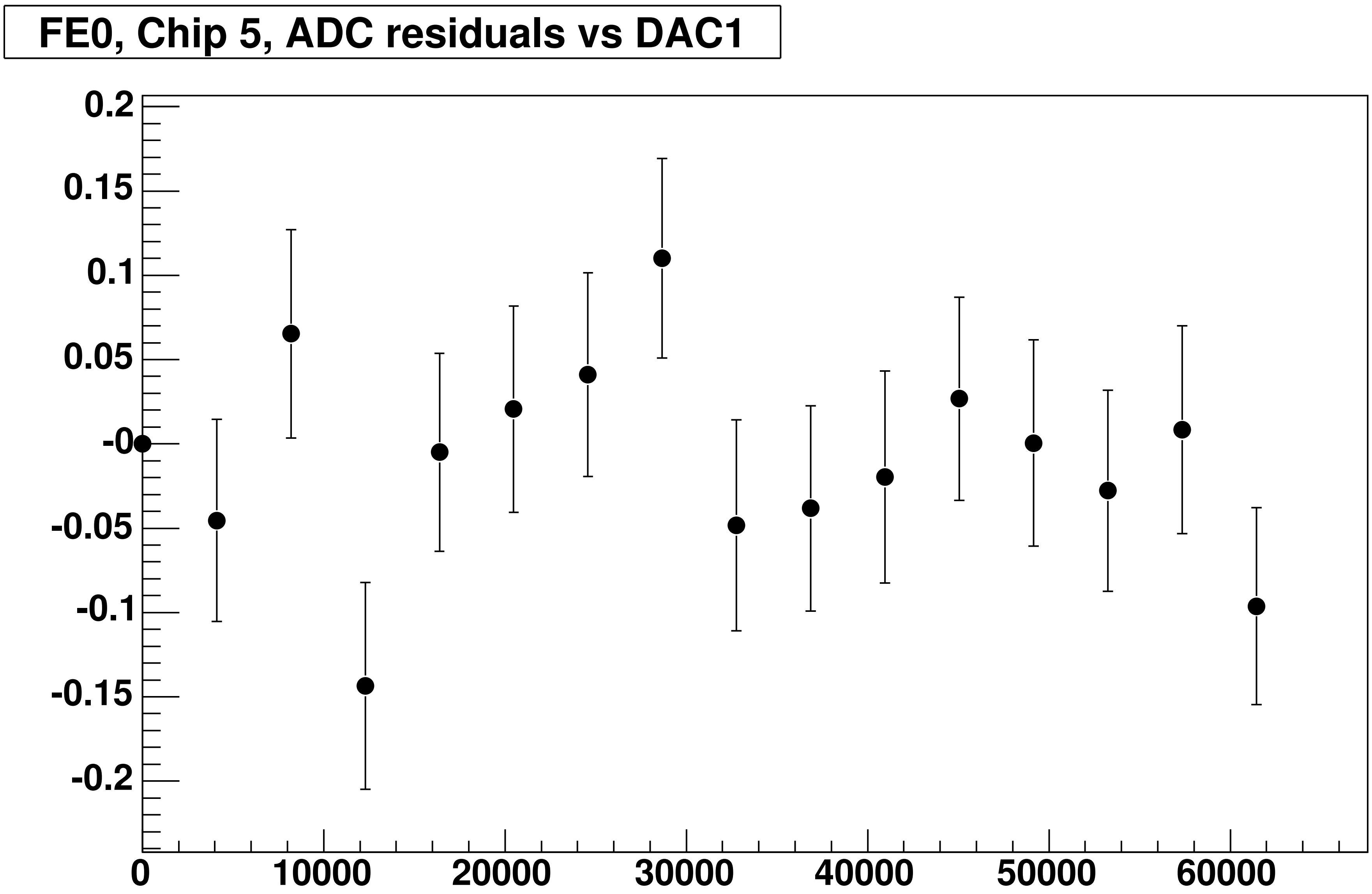

FE0, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

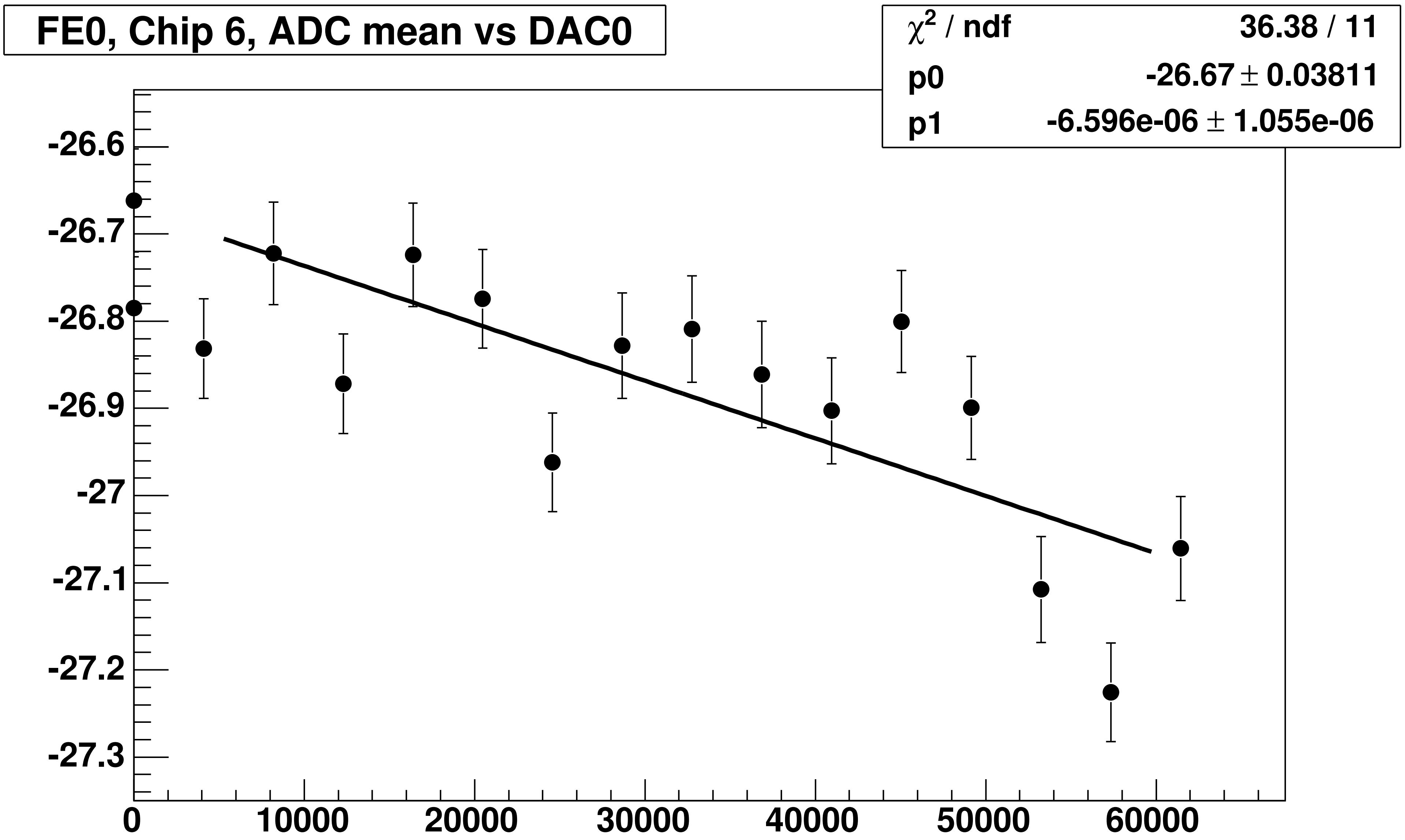


FE0, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

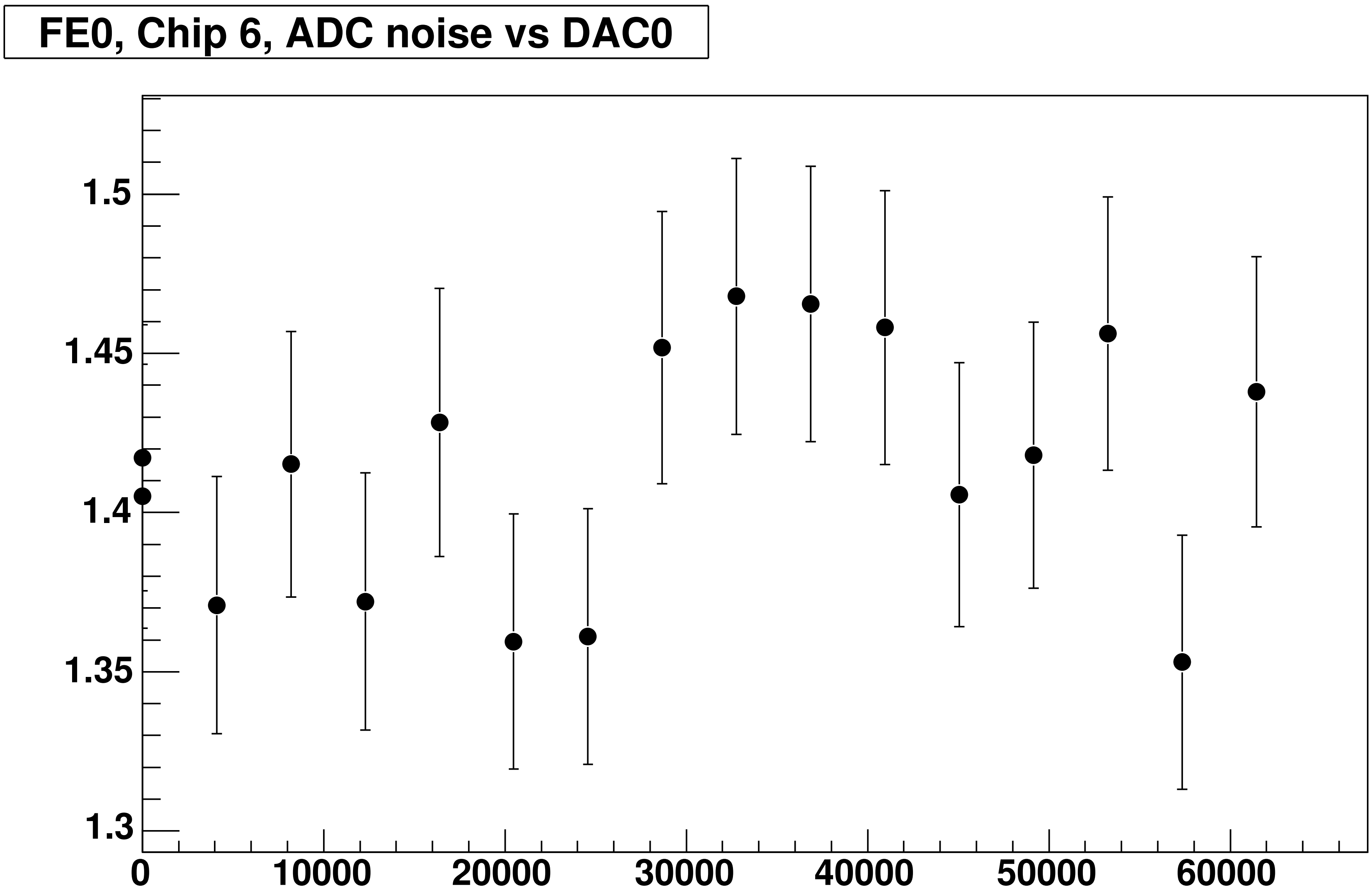

FE0, Chip 5, ADC mean vs DAC1
χ^2 / ndf 12.17 / 11
p0 20.51 ± 0.0398
p1 1.372e-06 ± 1.102e-06
20.75
20.7
20.65
20.6
20.55
20.5
20.45
20.4
20.35
20.3
0
10000
20000
30000
40000
50000
60000

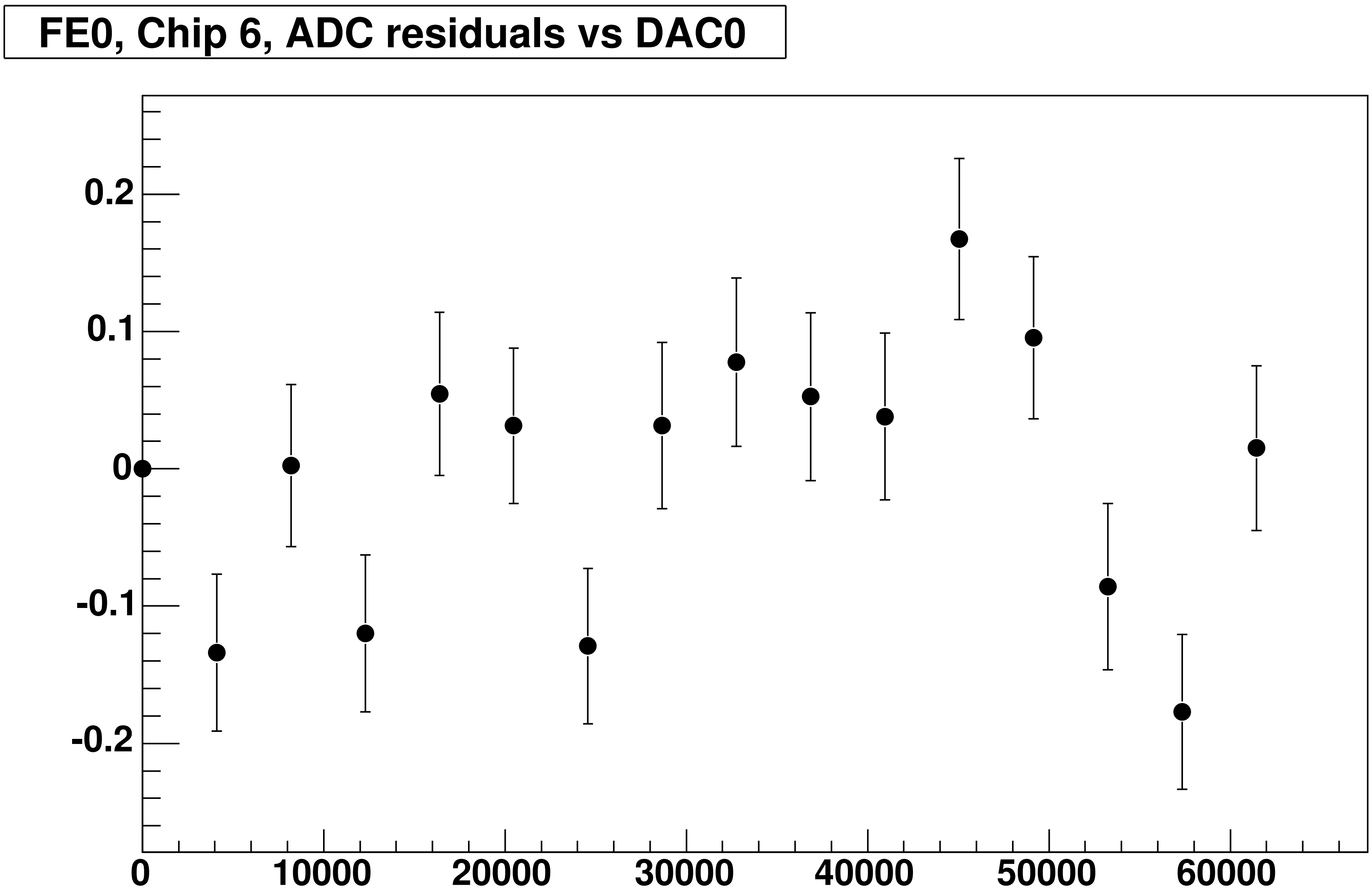

FE0, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

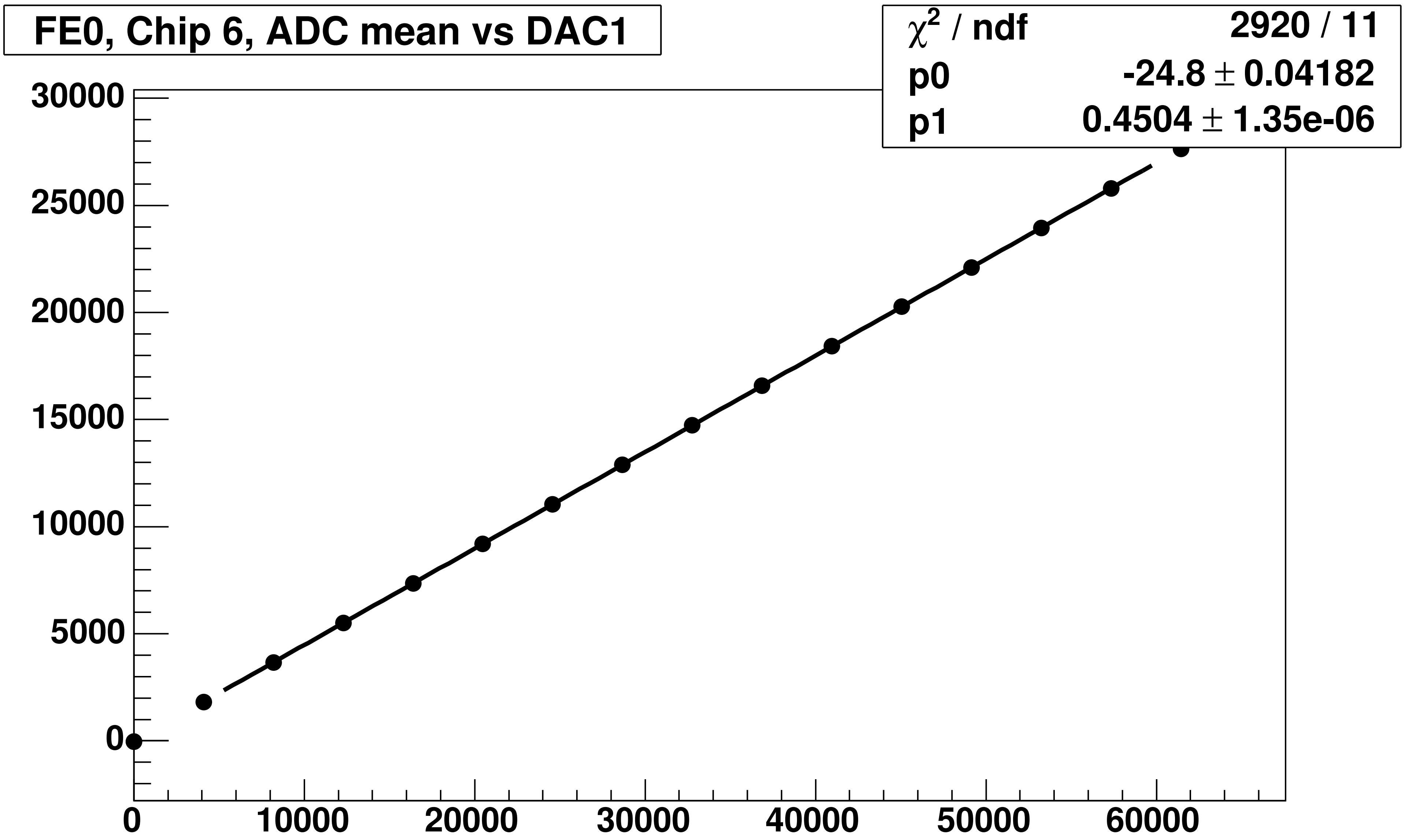

FE0, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



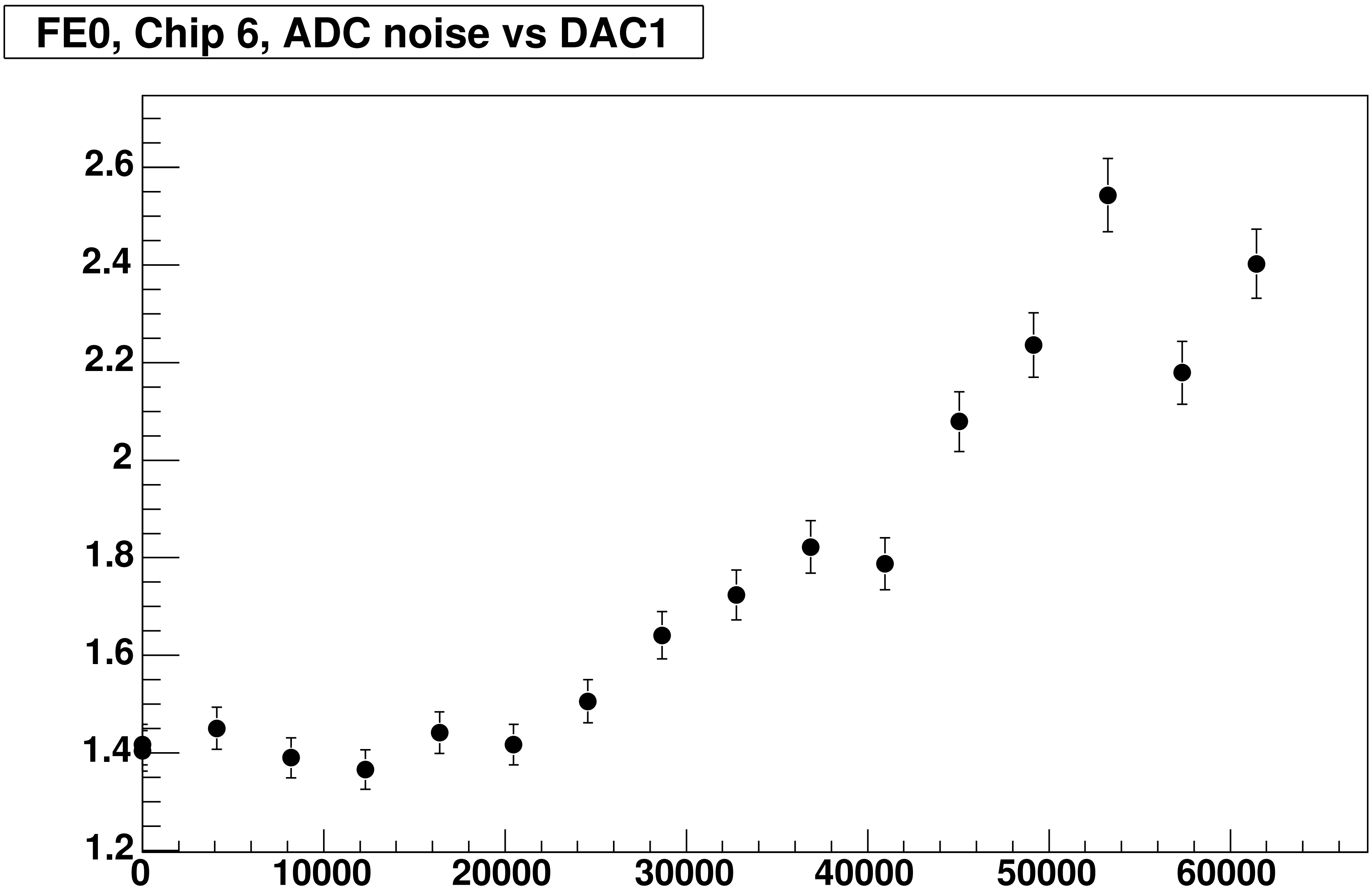
FE0, Chip 6, ADC mean vs DAC0
χ^2 / ndf 36.38 / 11
p0 -26.67 ± 0.03811
p1 -6.596e-06 ± 1.055e-06
-26.6
-26.7
-26.8
-26.9
-27
-27.1
-27.2
-27.3
0
10000
20000
30000
40000
50000
60000

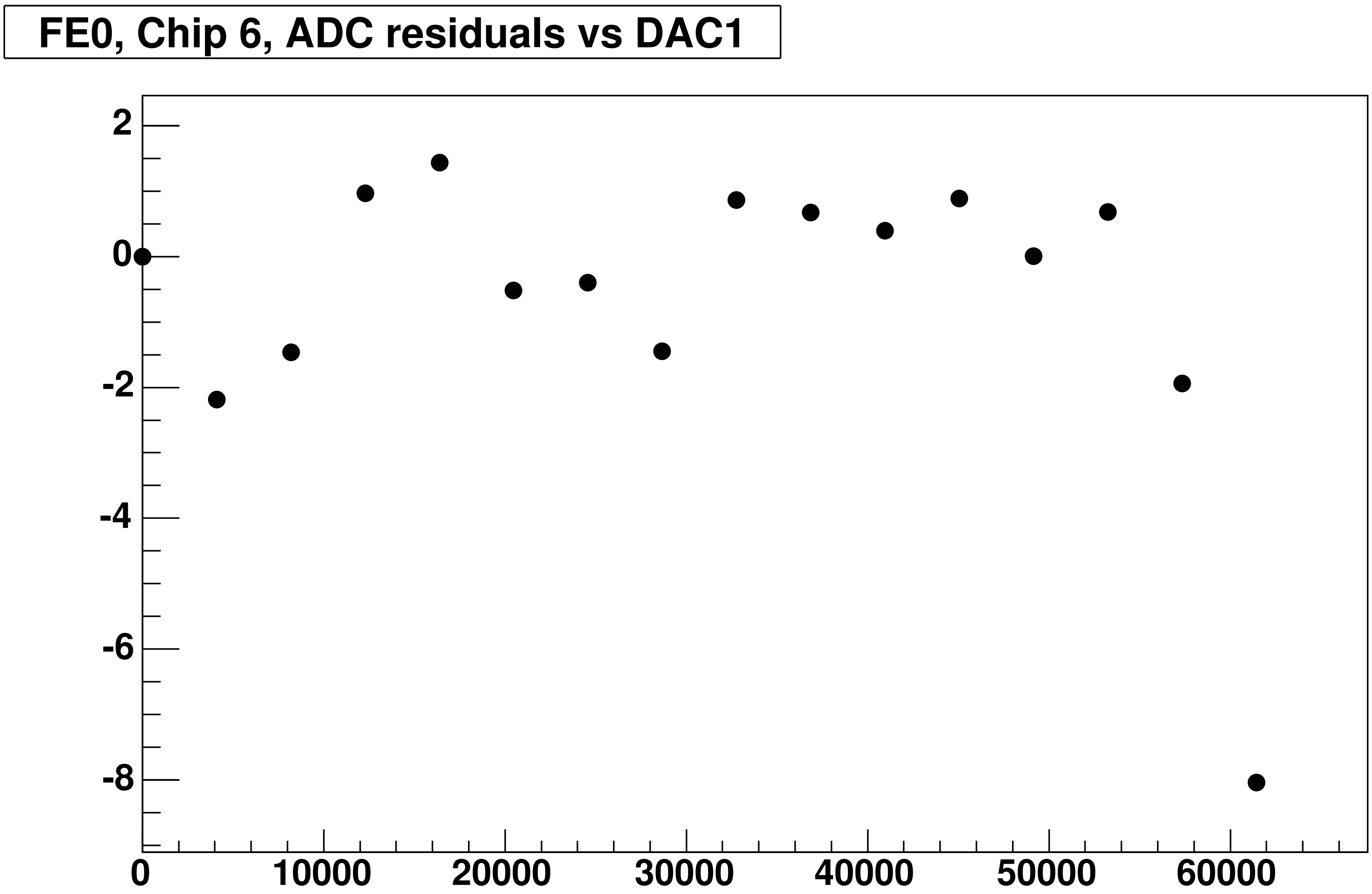

FE0, Chip 6, ADC noise vs DAC0
1.3
1.35
1.4
1.45
1.5
0
10000
20000
30000
40000
50000
60000

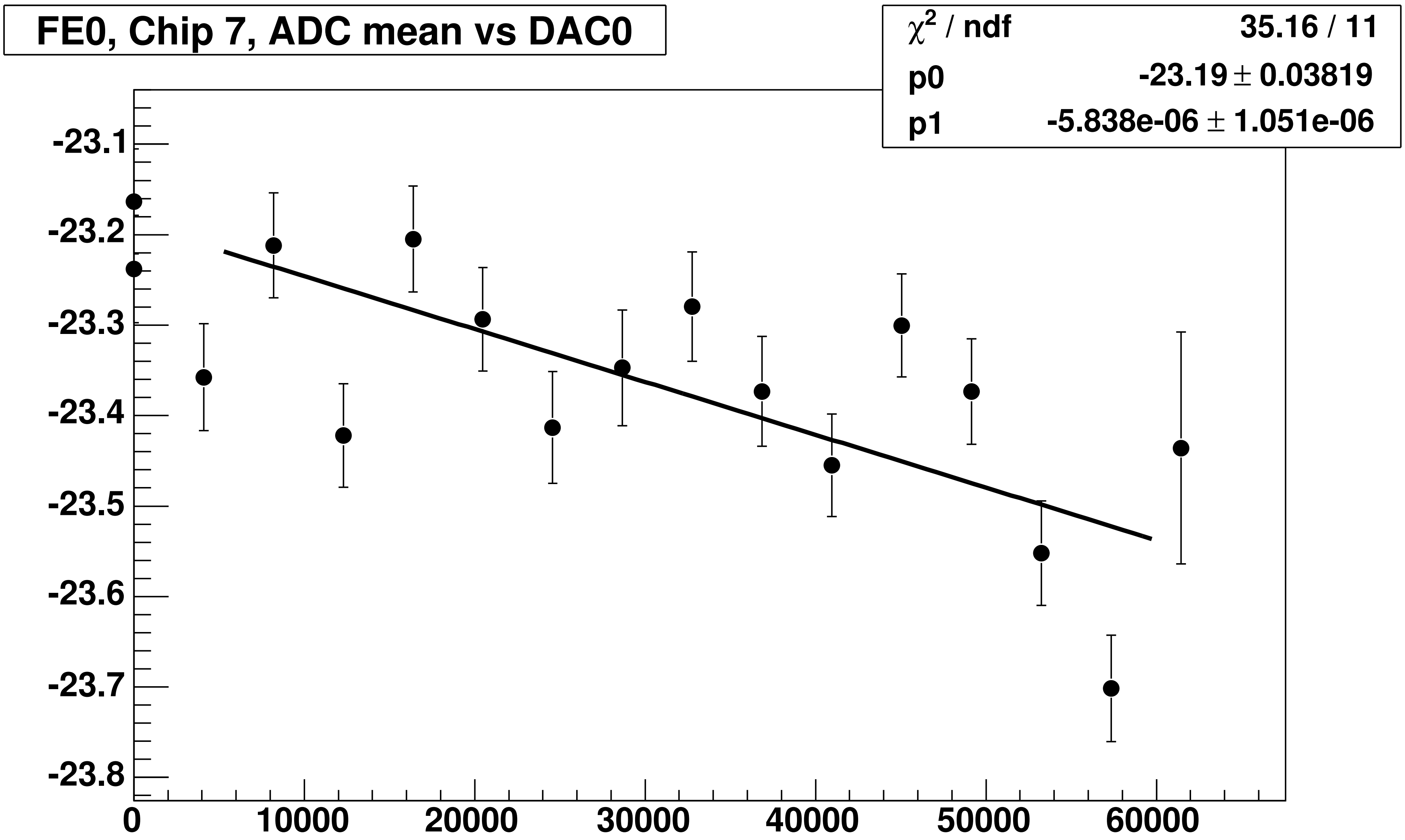

FE0, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



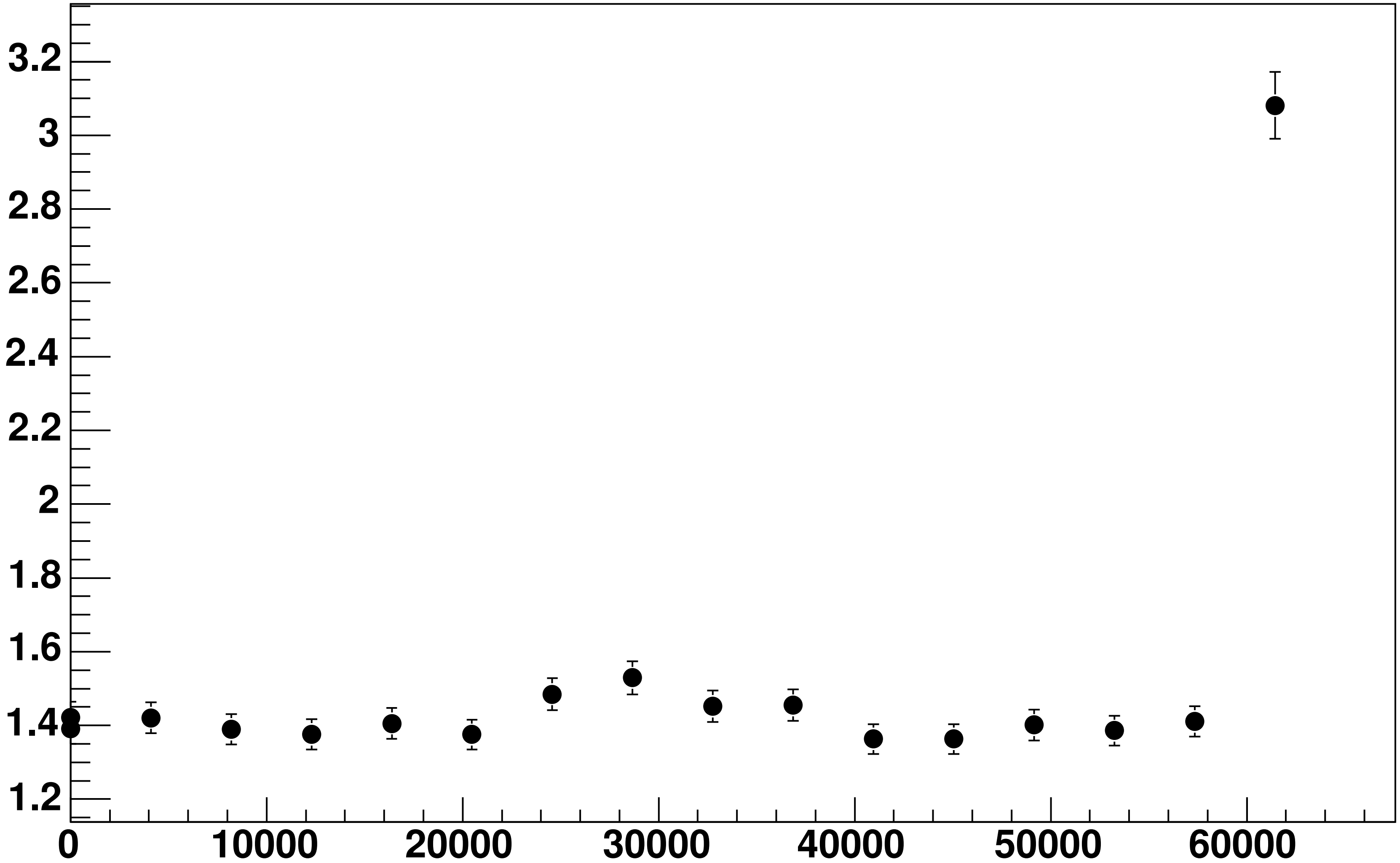
FE0, Chip 6, ADC mean vs DAC1
χ^2 / ndf 2920 / 11
p0 -24.8 ± 0.04182
p1 0.4504 ± 1.35e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

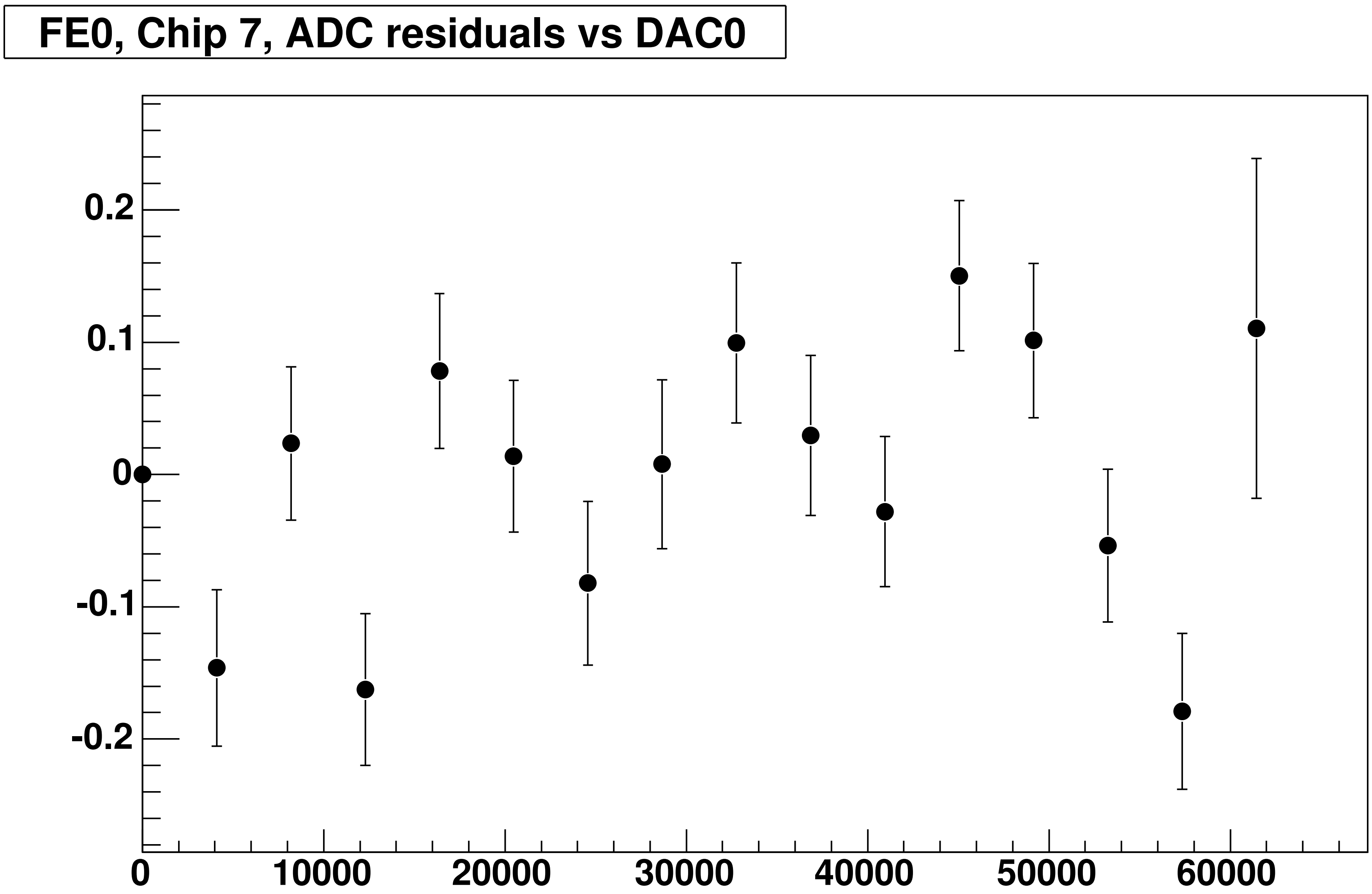

FE0, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

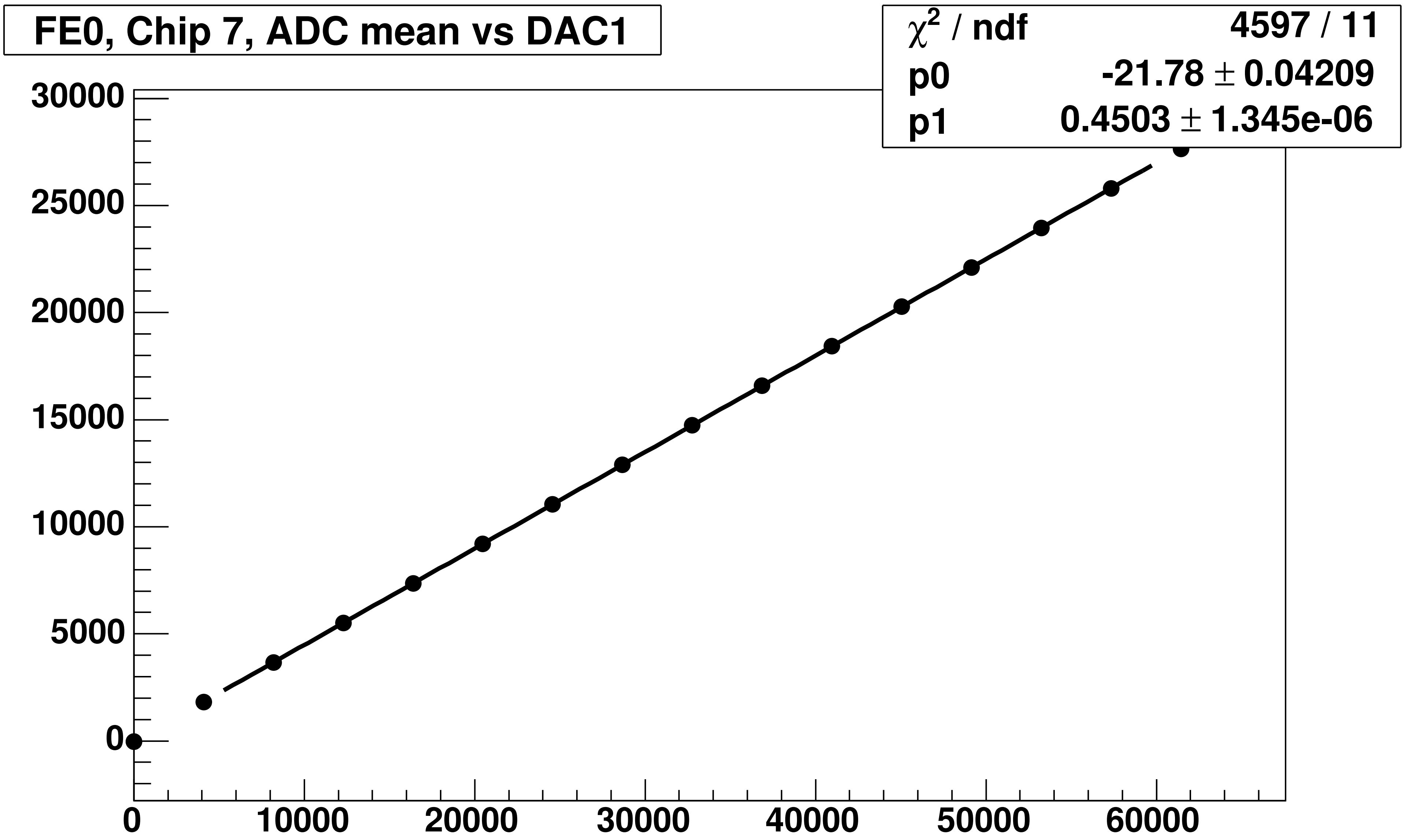

FE0, Chip 6, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

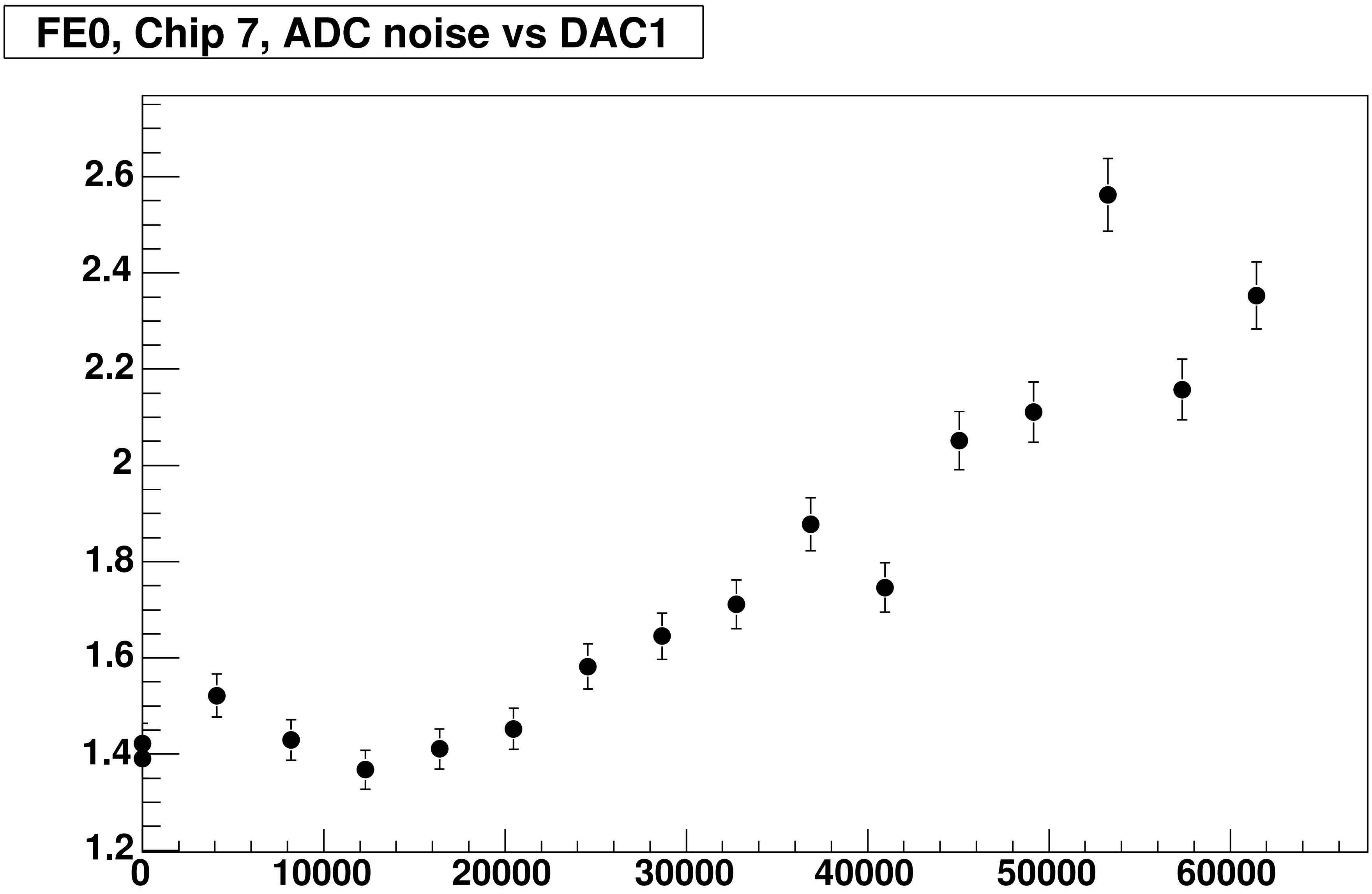

FE0, Chip 7, ADC mean vs DAC0
χ^2 / ndf 35.16 / 11
p0 -23.19 ± 0.03819
p1 -5.838e-06 ± 1.051e-06
-23.1
-23.2
-23.3
-23.4
-23.5
-23.6
-23.7
-23.8
0
10000
20000
30000
40000
50000
60000

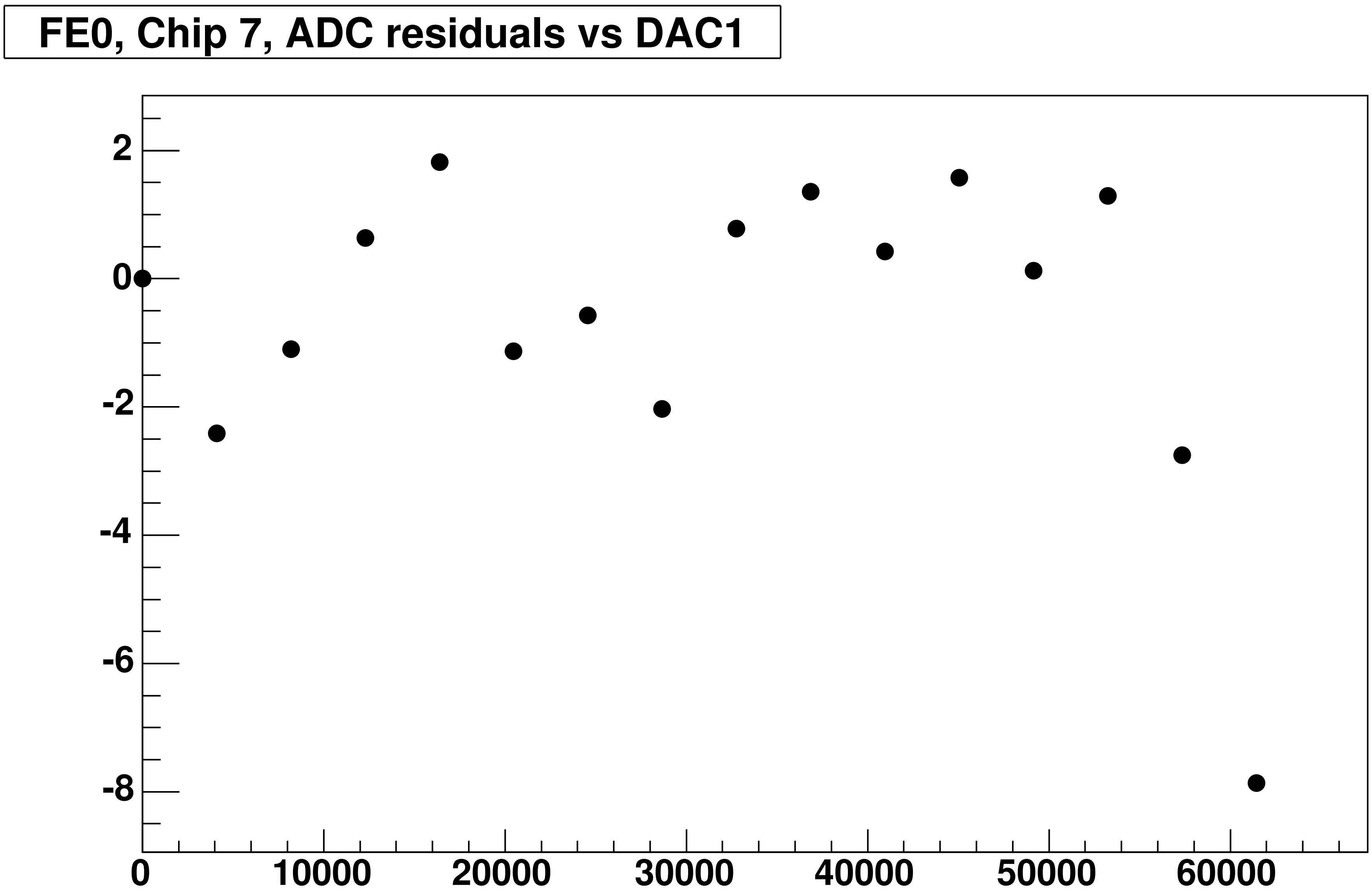
FE0, Chip 7, ADC noise vs DAC0

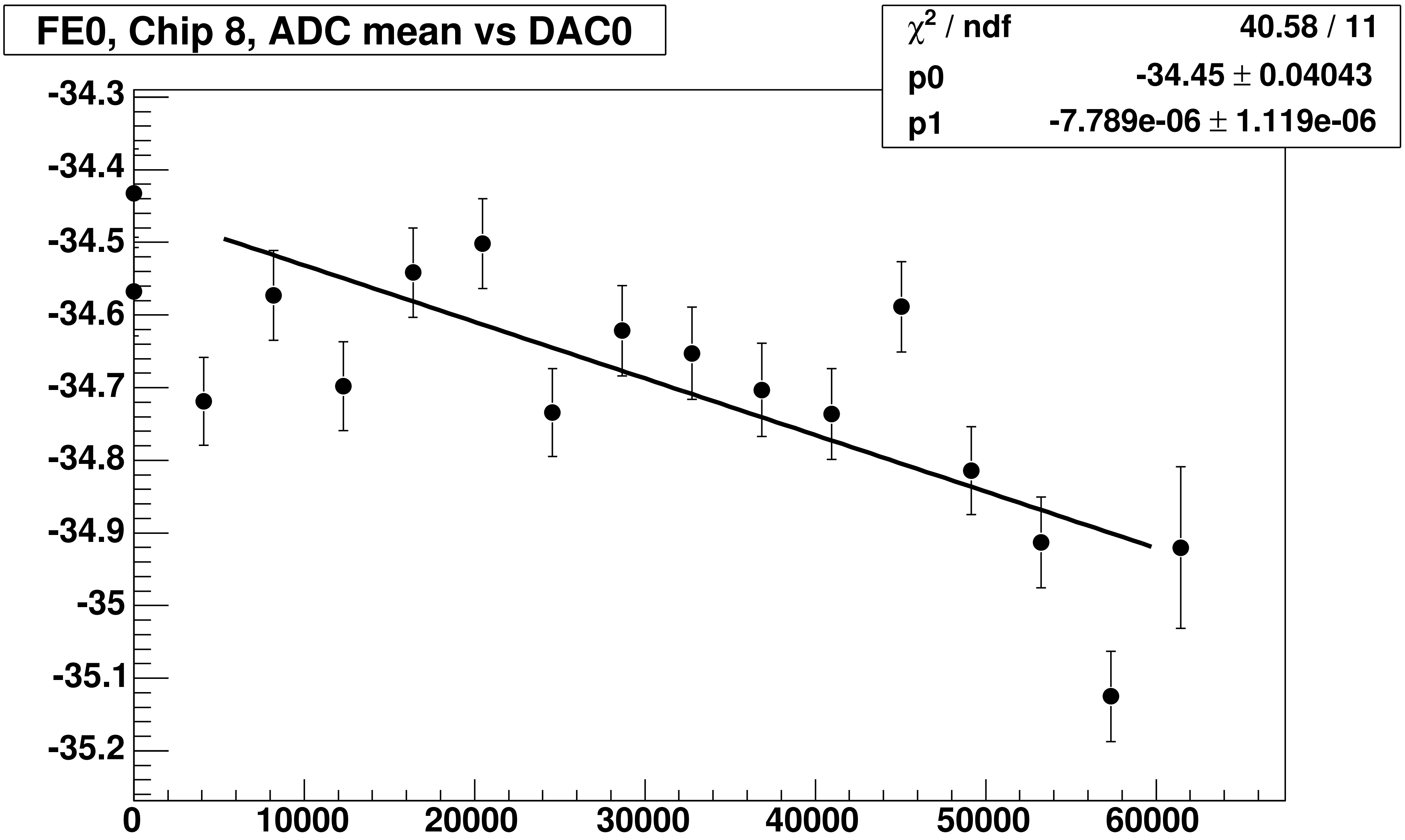



FE0, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

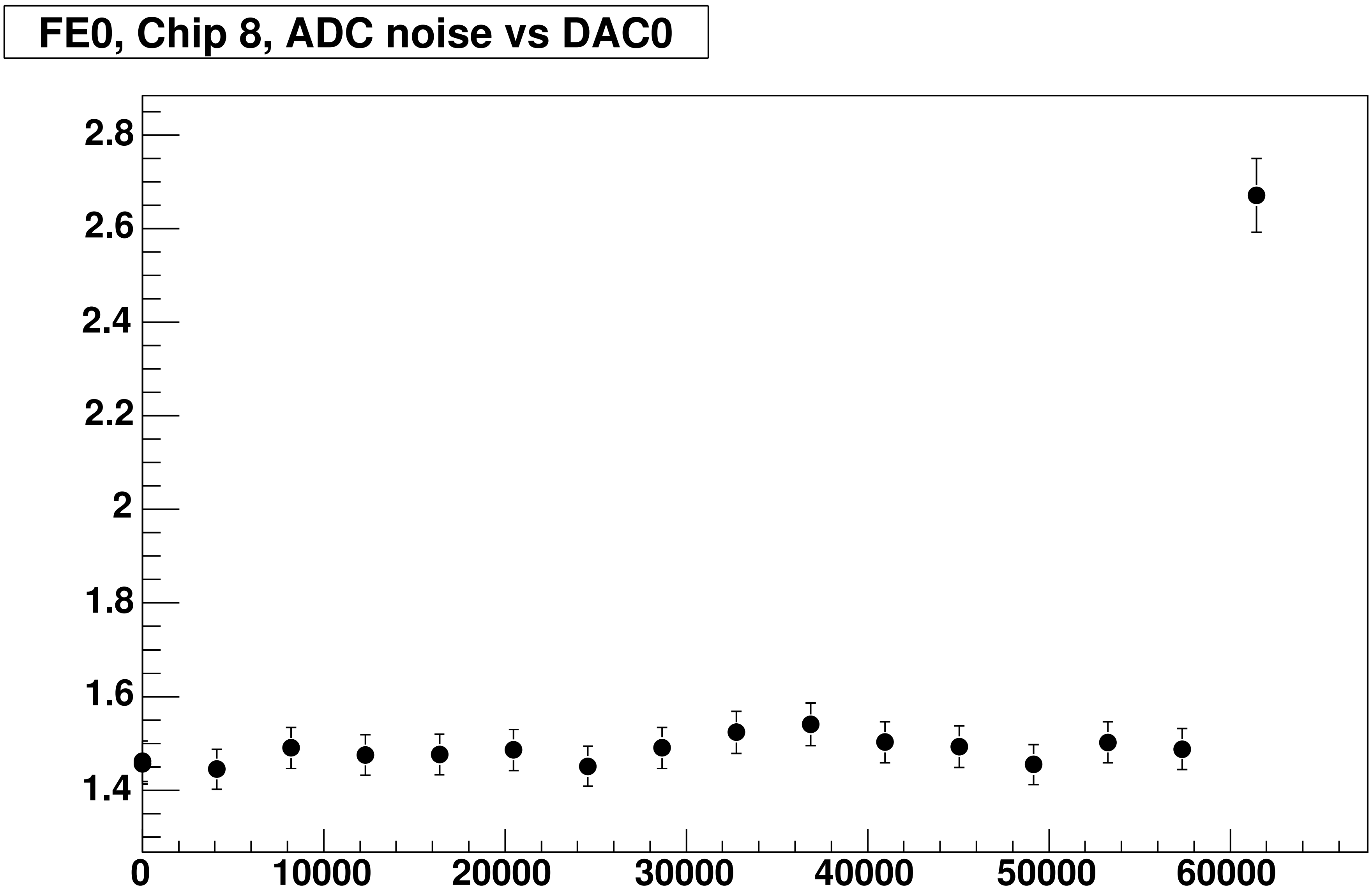

FE0, Chip 7, ADC mean vs DAC1
χ² / ndf 4597 / 11
p0 -21.78 ± 0.04209
p1 0.4503 ± 1.345e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

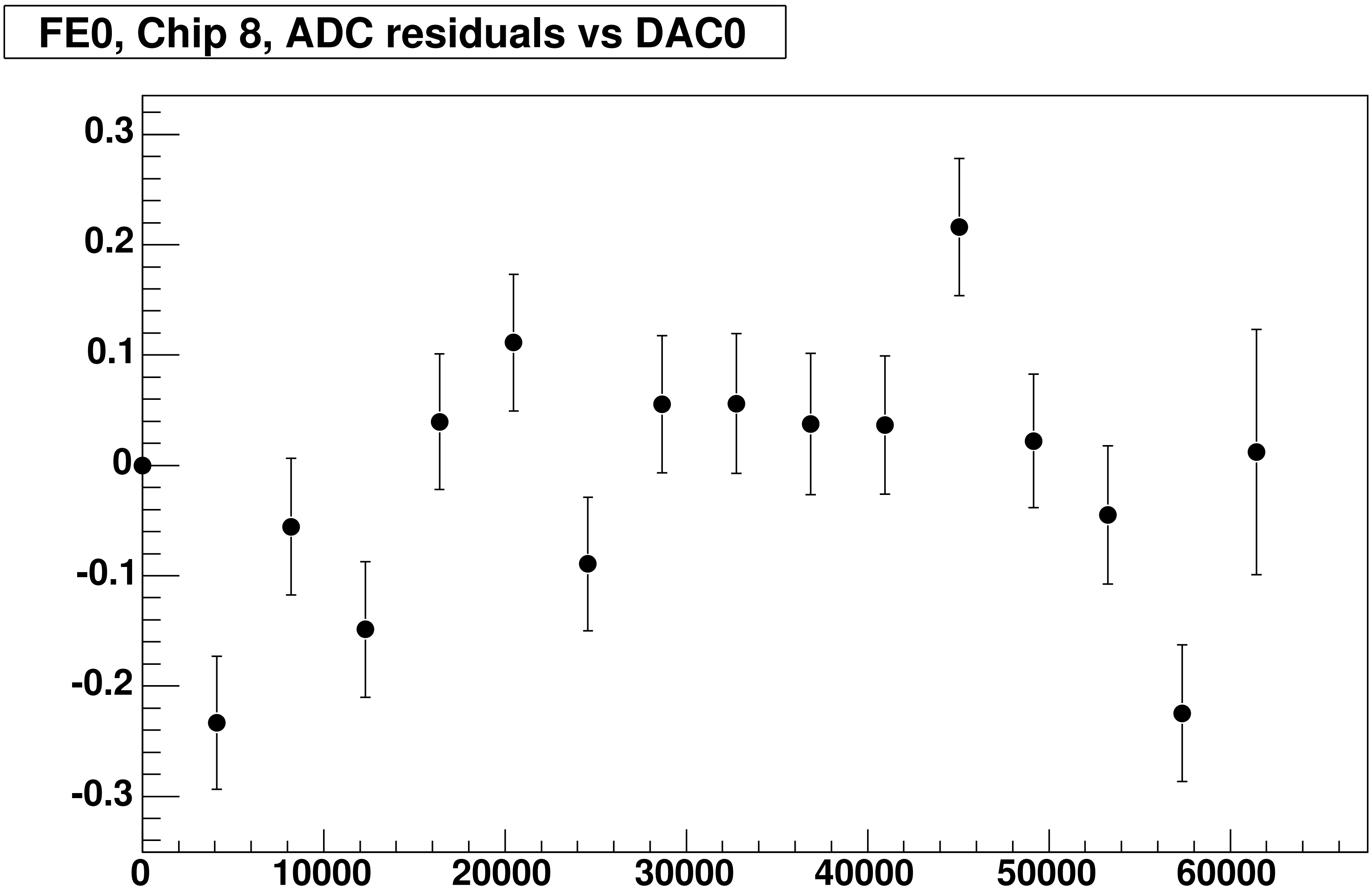

FE0, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

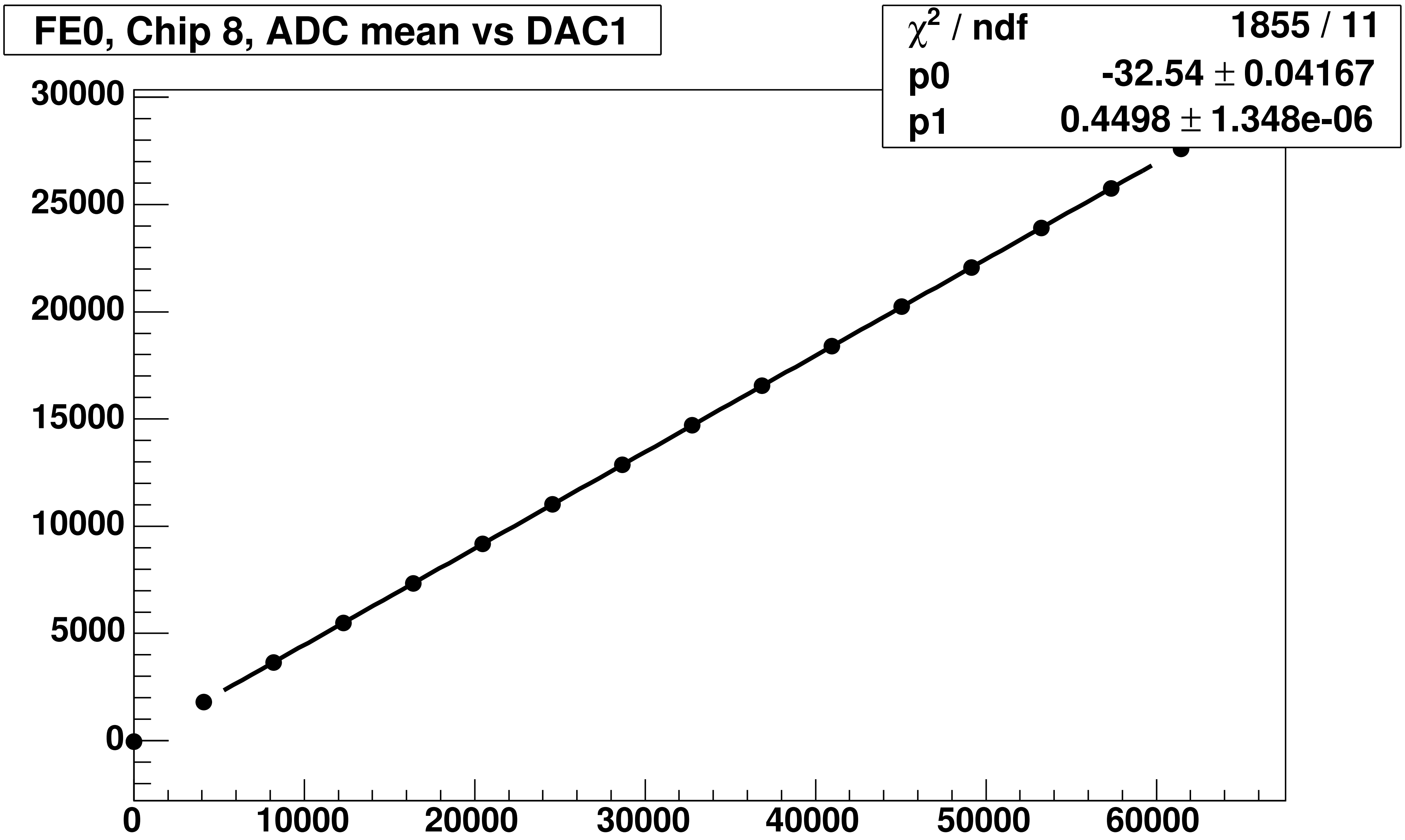

FE0, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000



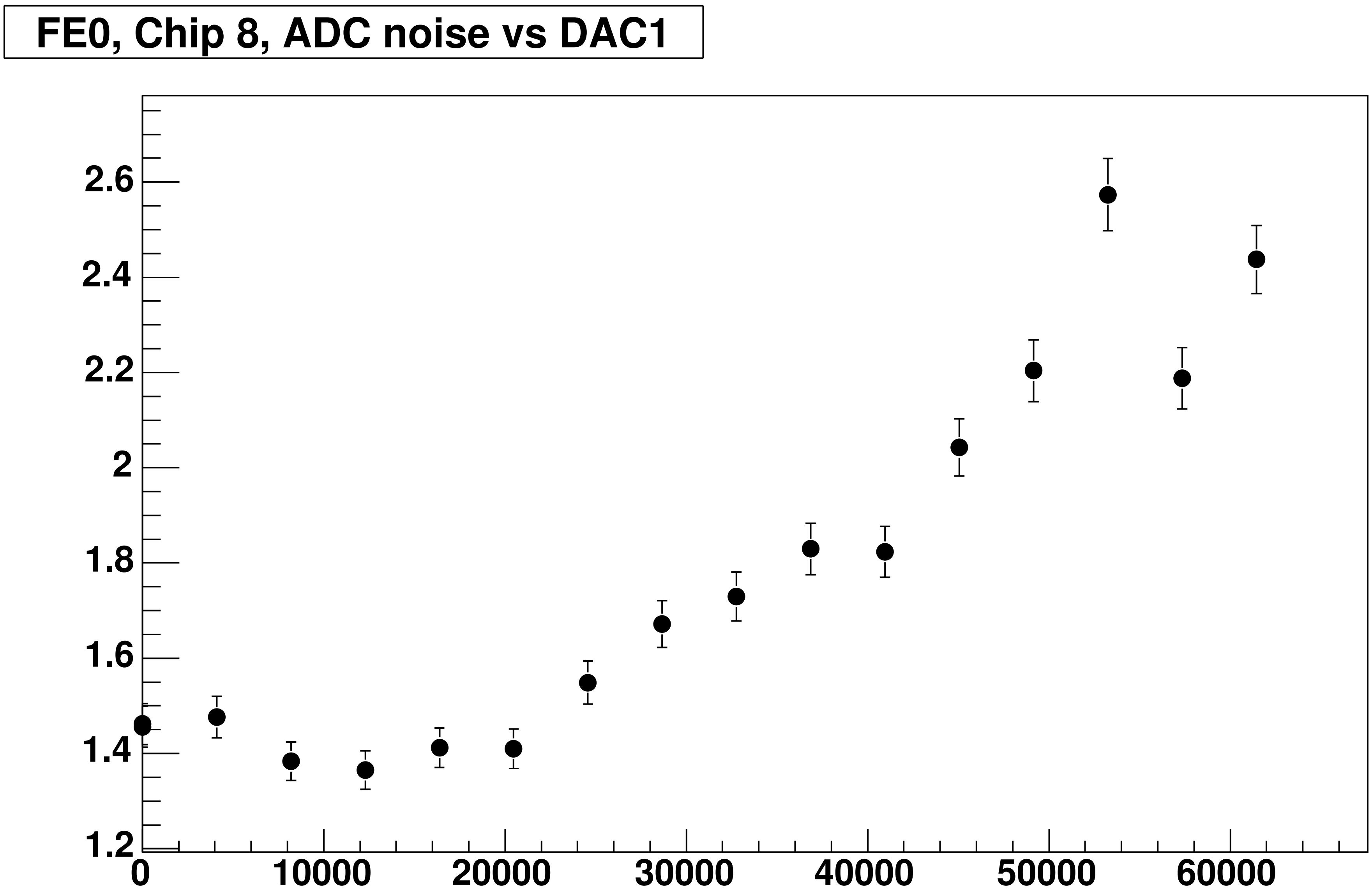
FE0, Chip 8, ADC mean vs DAC0
χ² / ndf 40.58 / 11
p0 -34.45 ± 0.04043
p1 -7.789e-06 ± 1.119e-06
-34.3
-34.4
-34.5
-34.6
-34.7
-34.8
-34.9
-35
-35.1
-35.2
0
10000
20000
30000
40000
50000
60000


FE0, Chip 8, 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

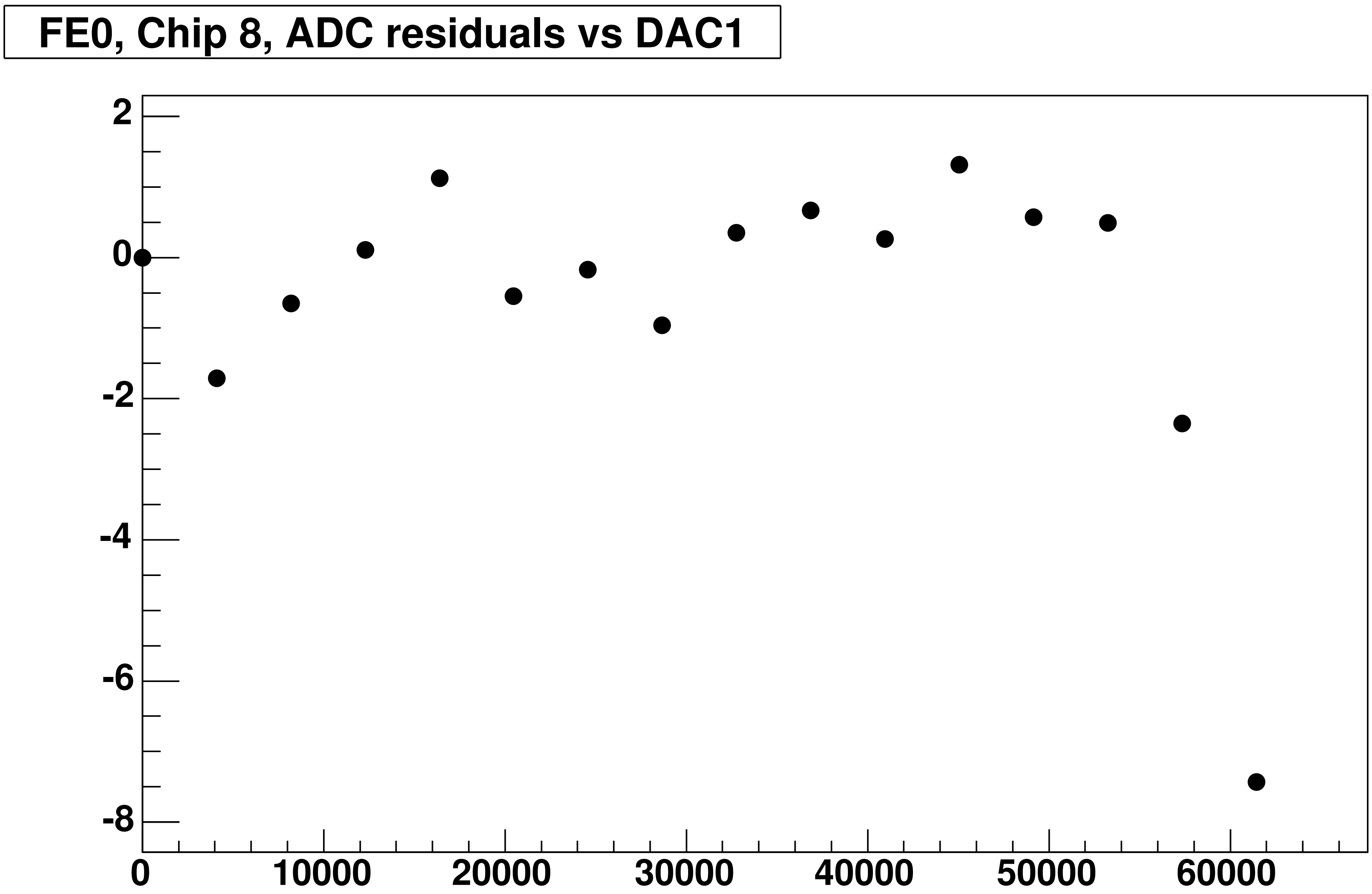

FE0, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

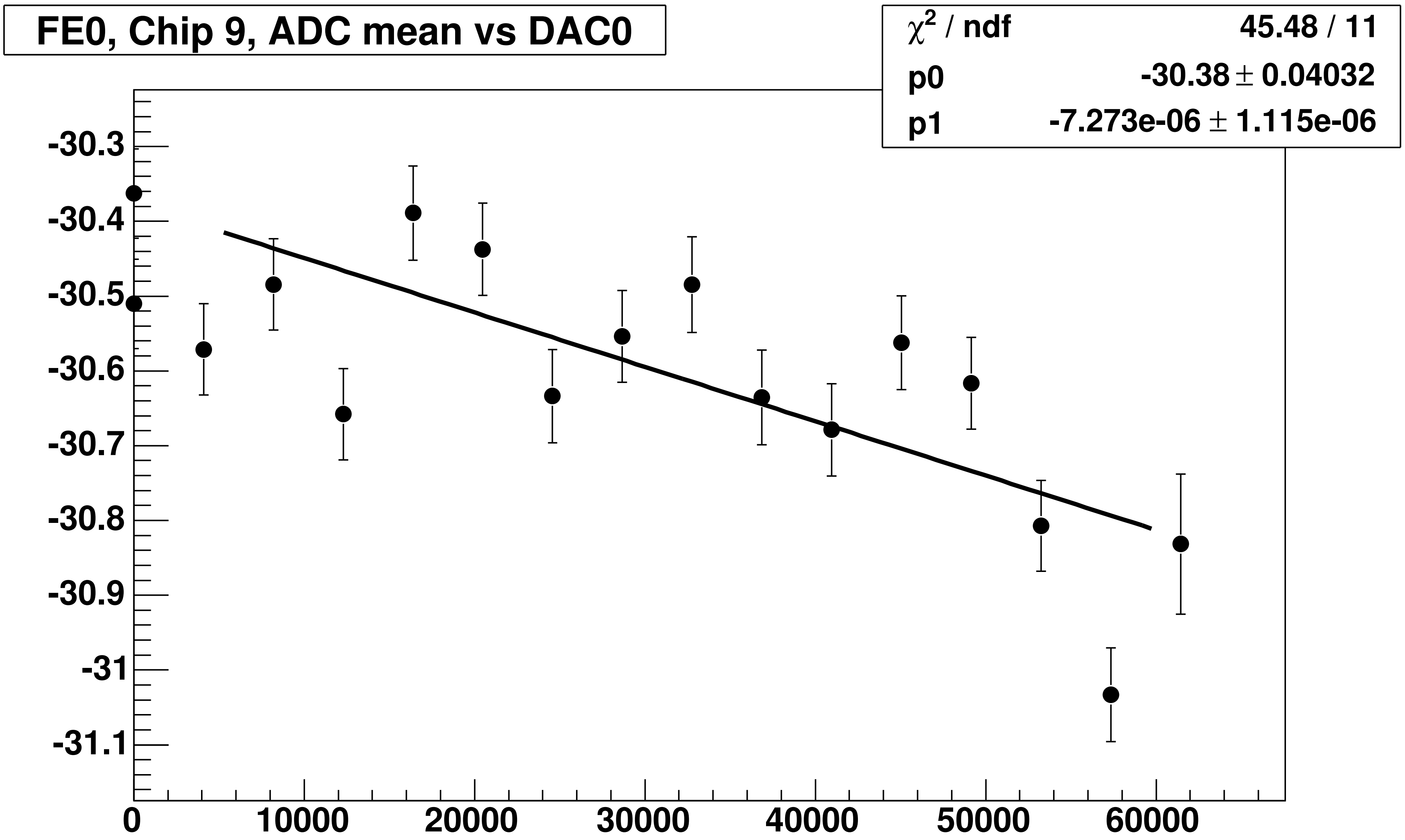


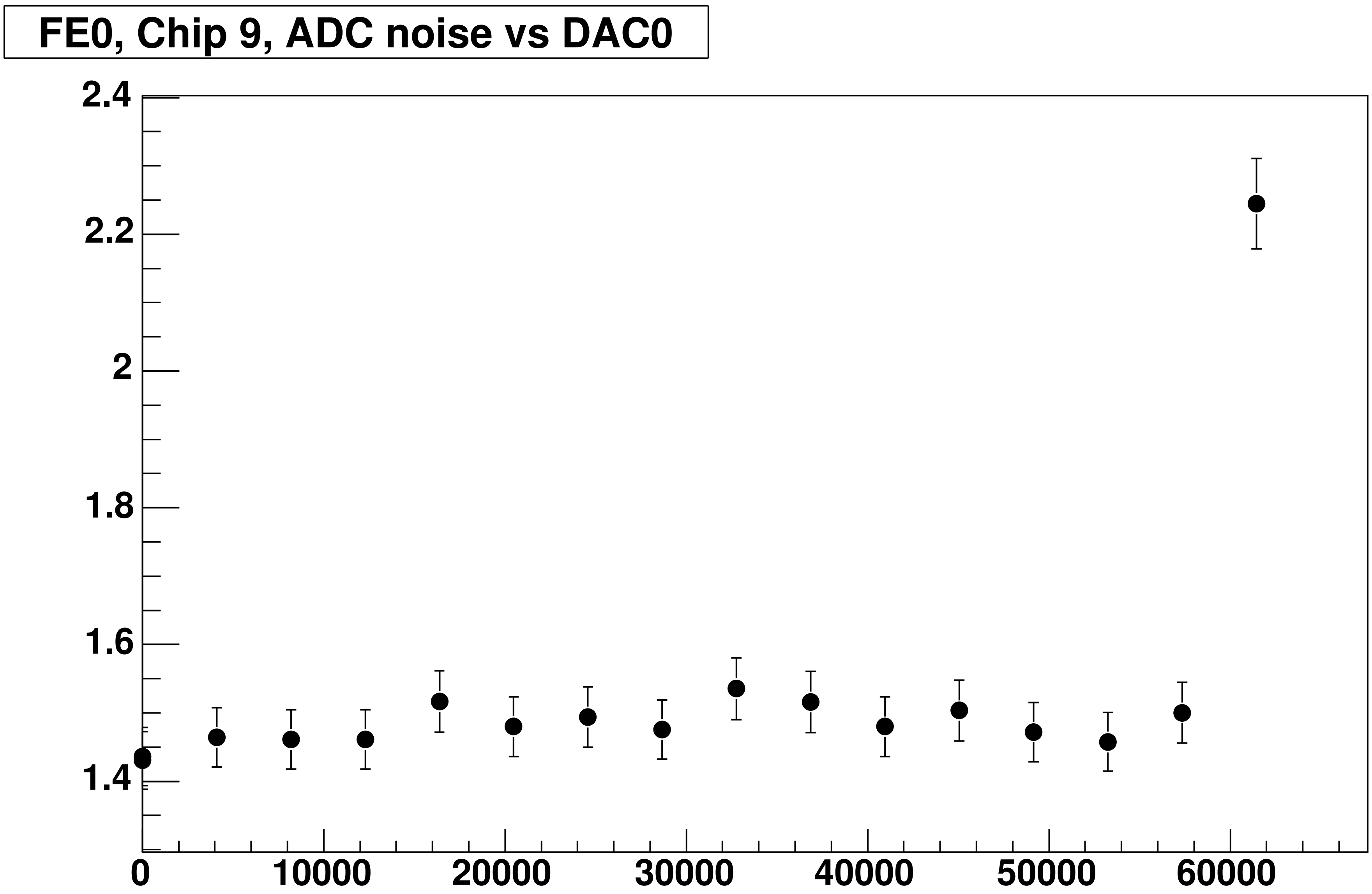
FE0, Chip 8, ADC mean vs DAC1
χ² / ndf 1855 / 11
p0 -32.54 ± 0.04167
p1 0.4498 ± 1.348e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

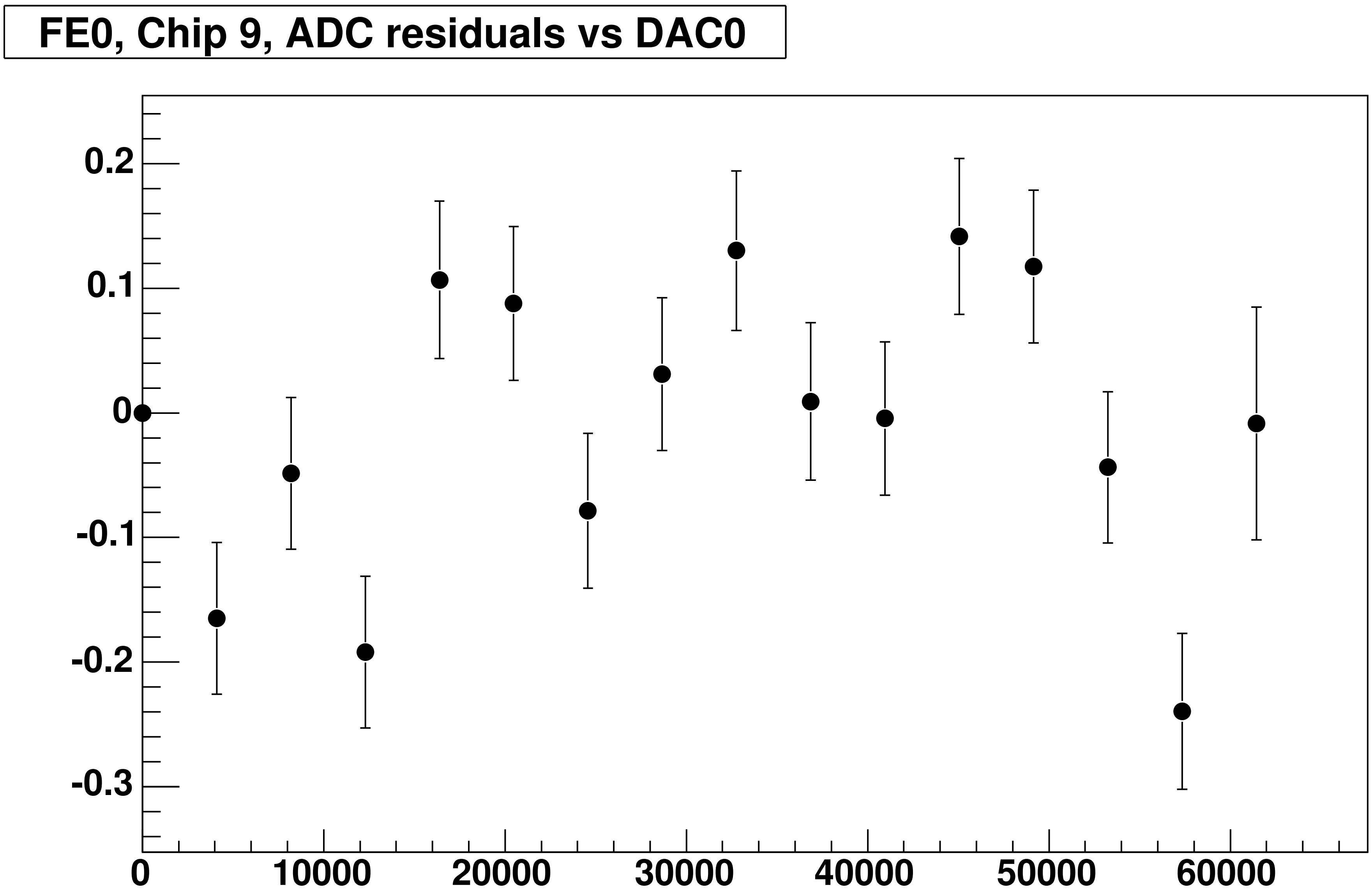


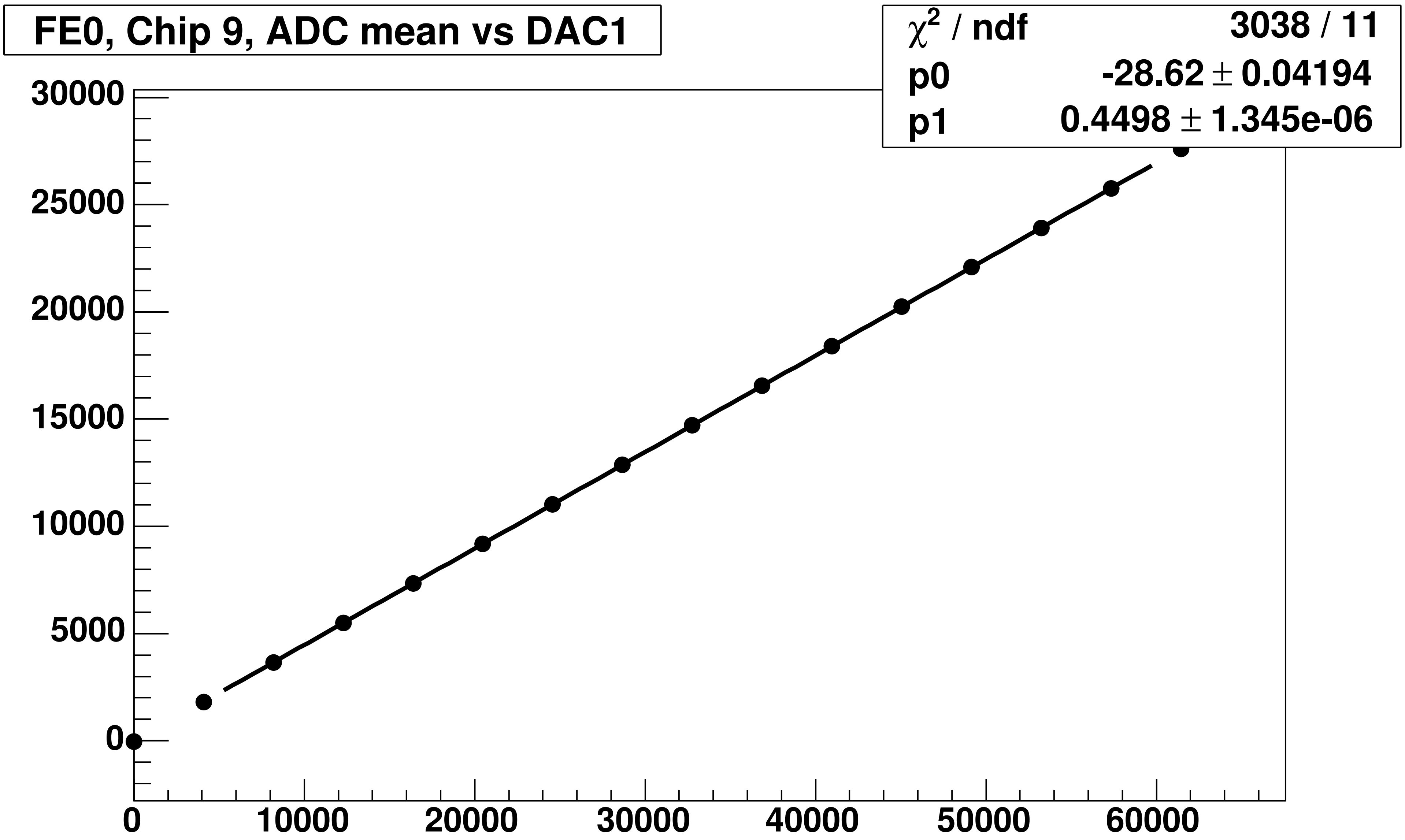
FE0, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

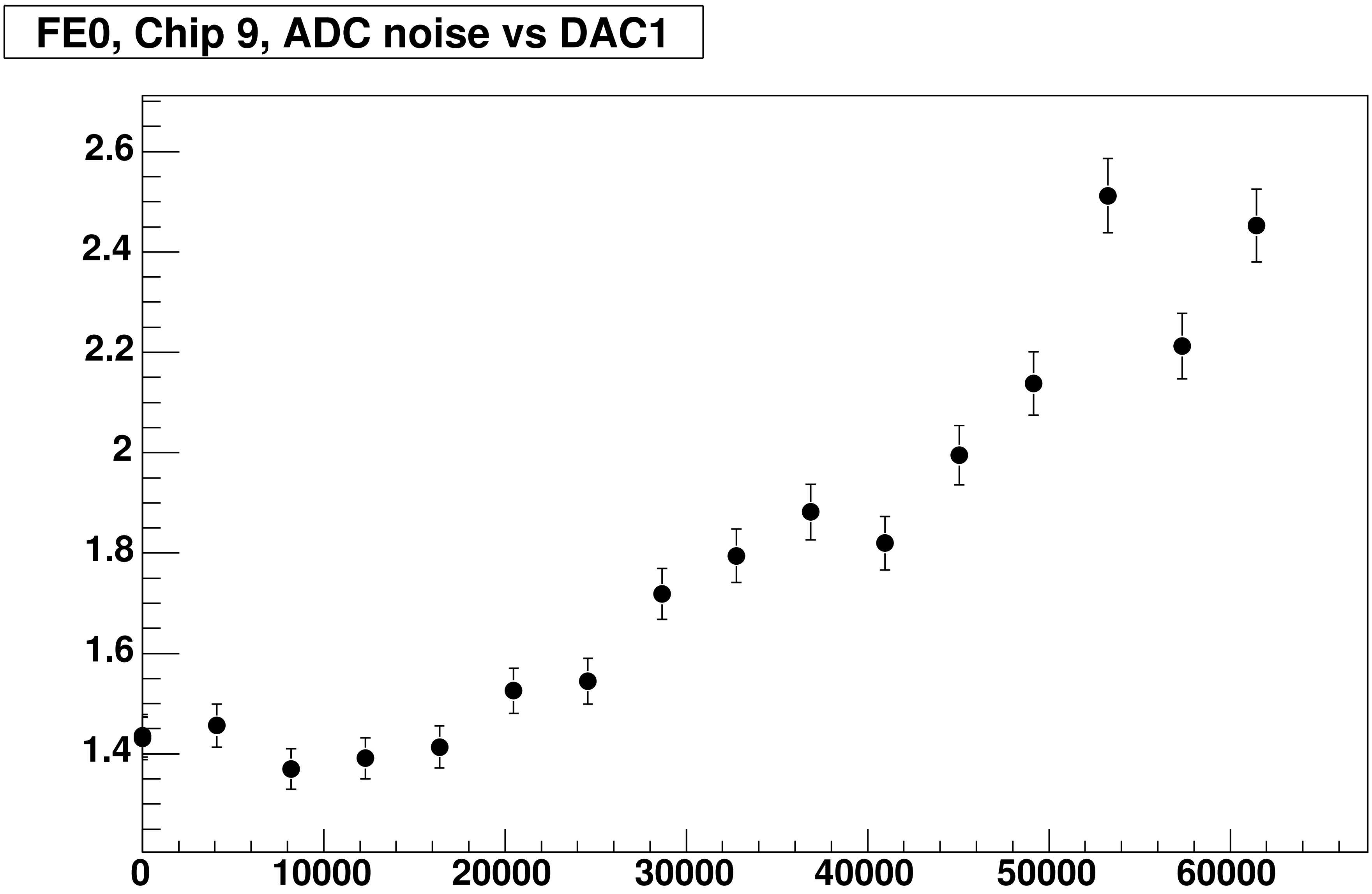

FE0, Chip 8, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

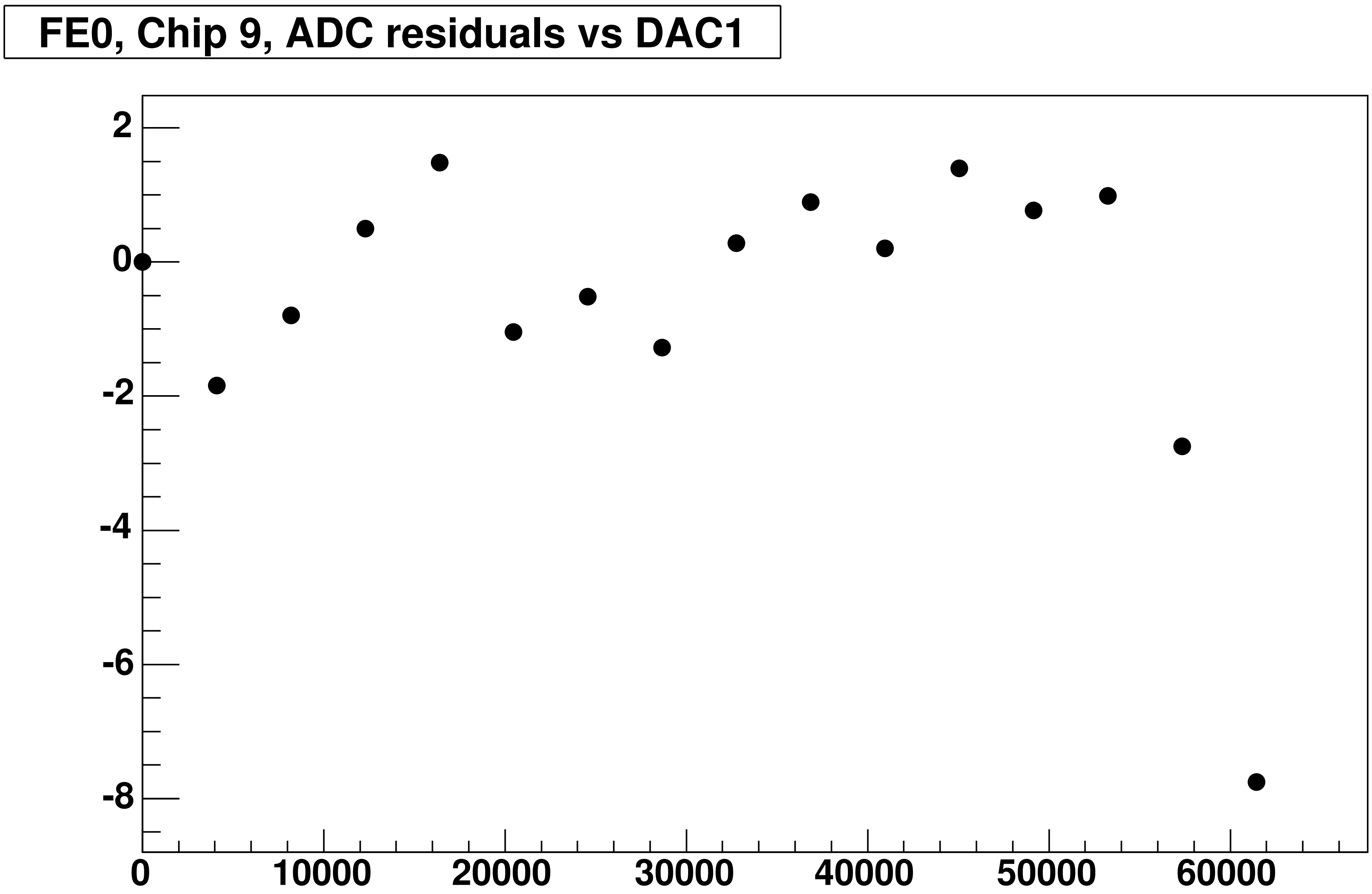

FE0, Chip 9, ADC mean vs DAC0
χ^2 / ndf 45.48 / 11
p0 -30.38 ± 0.04032
p1 -7.273e-06 ± 1.115e-06
-30.3
-30.4
-30.5
-30.6
-30.7
-30.8
-30.9
-31
-31.1
0
10000
20000
30000
40000
50000
60000


FE0, Chip 9, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

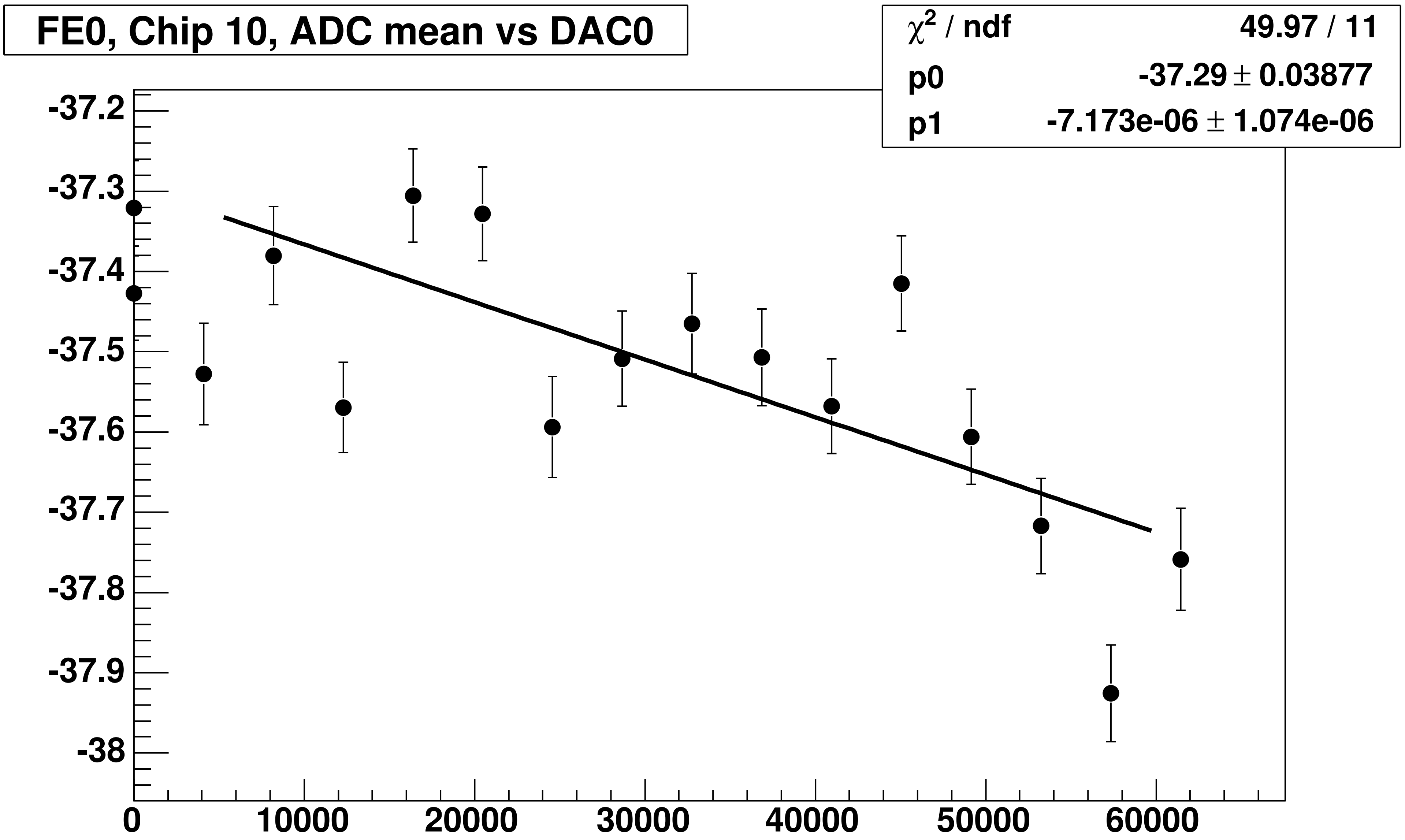

FE0, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE0, Chip 9, ADC mean vs DAC1
χ^2 / ndf 3038 / 11
p0 -28.62 ± 0.04194
p1 0.4498 ± 1.345e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

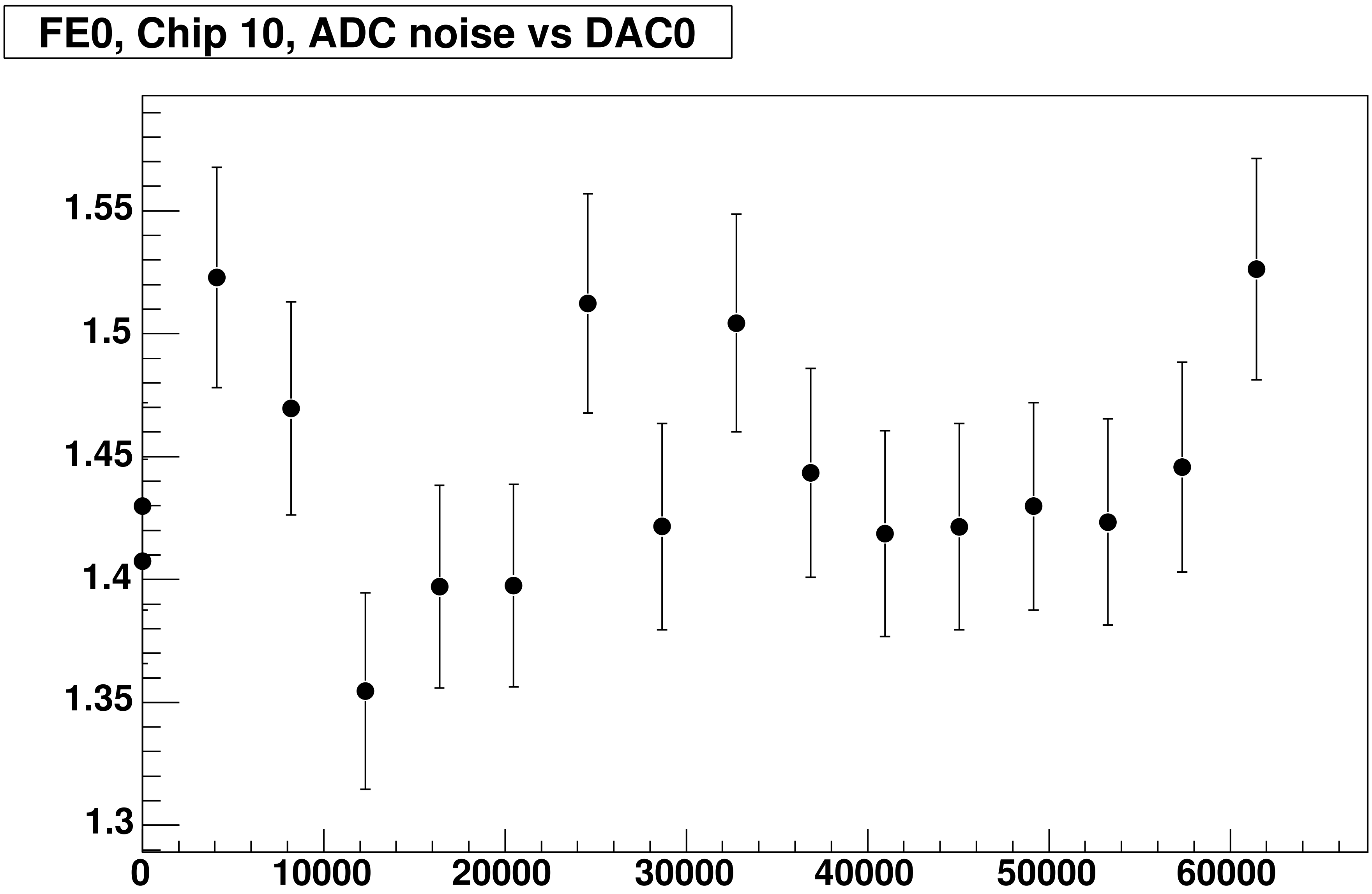

FE0, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

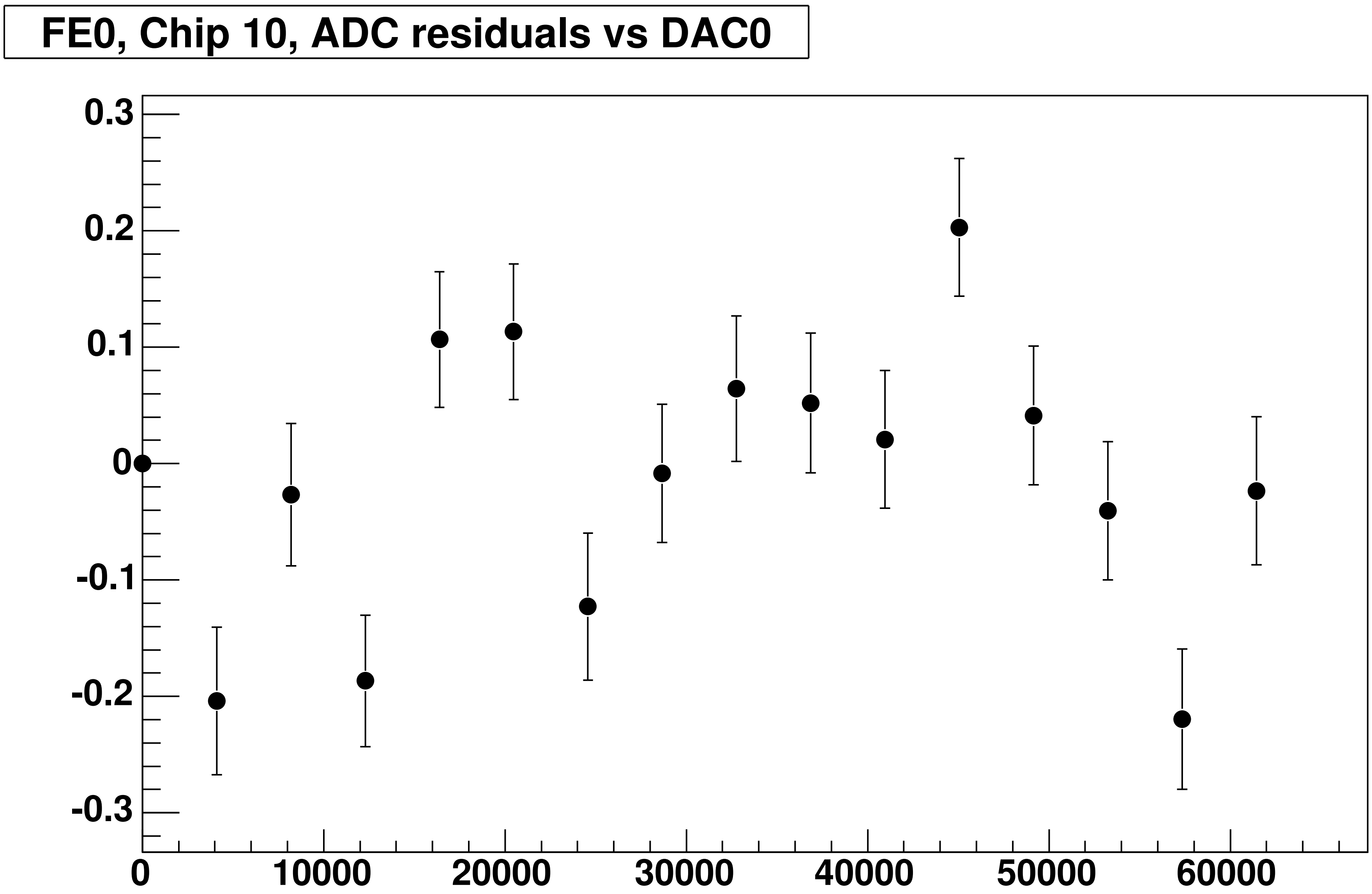


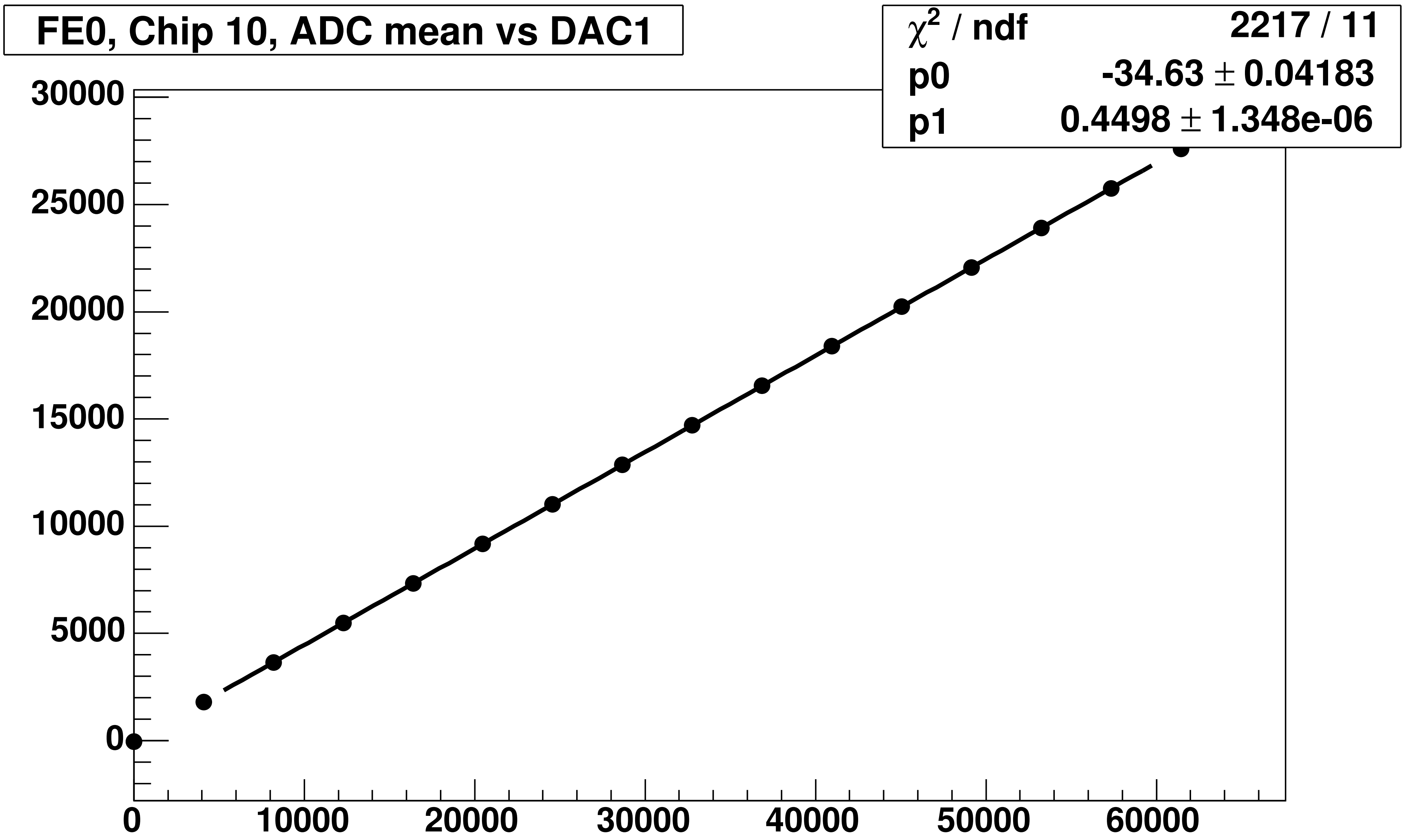
FE0, Chip 9, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

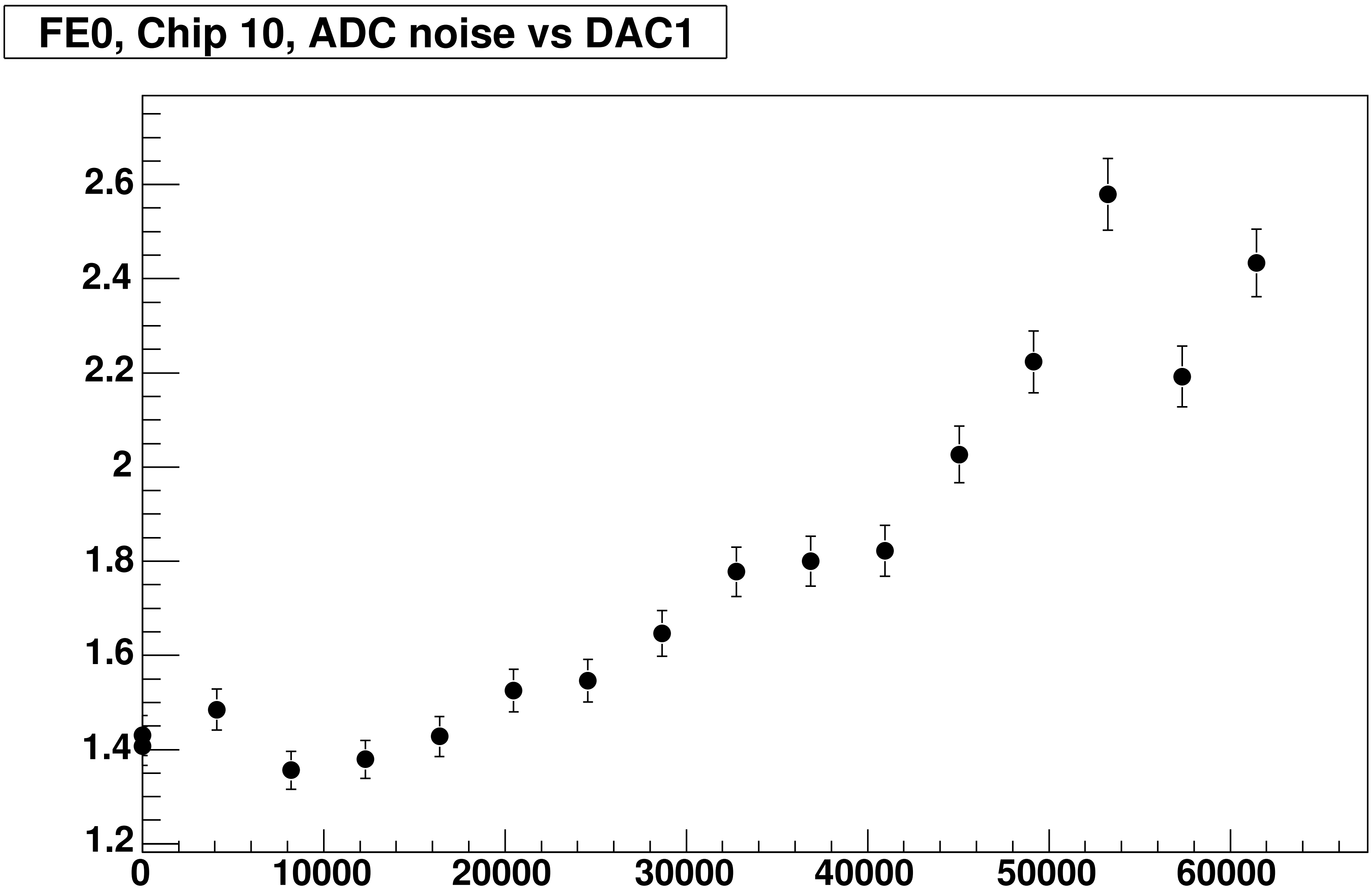


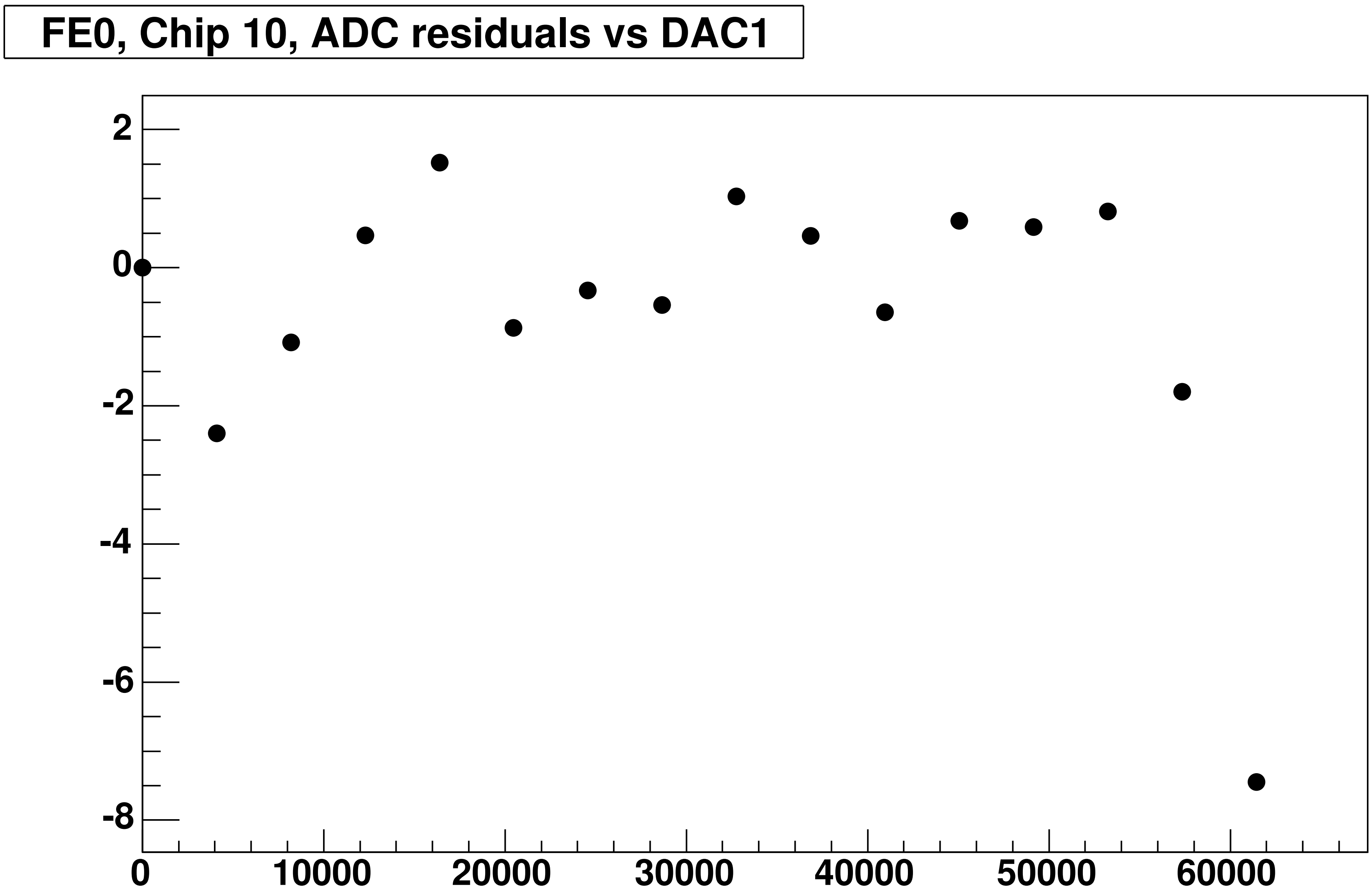
FE0, Chip 10, ADC mean vs DAC0
χ^2 / ndf 49.97 / 11
p0 -37.29 ± 0.03877
p1 -7.173e-06 ± 1.074e-06
-37.2
-37.3
-37.4
-37.5
-37.6
-37.7
-37.8
-37.9
-38
0
10000
20000
30000
40000
50000
60000

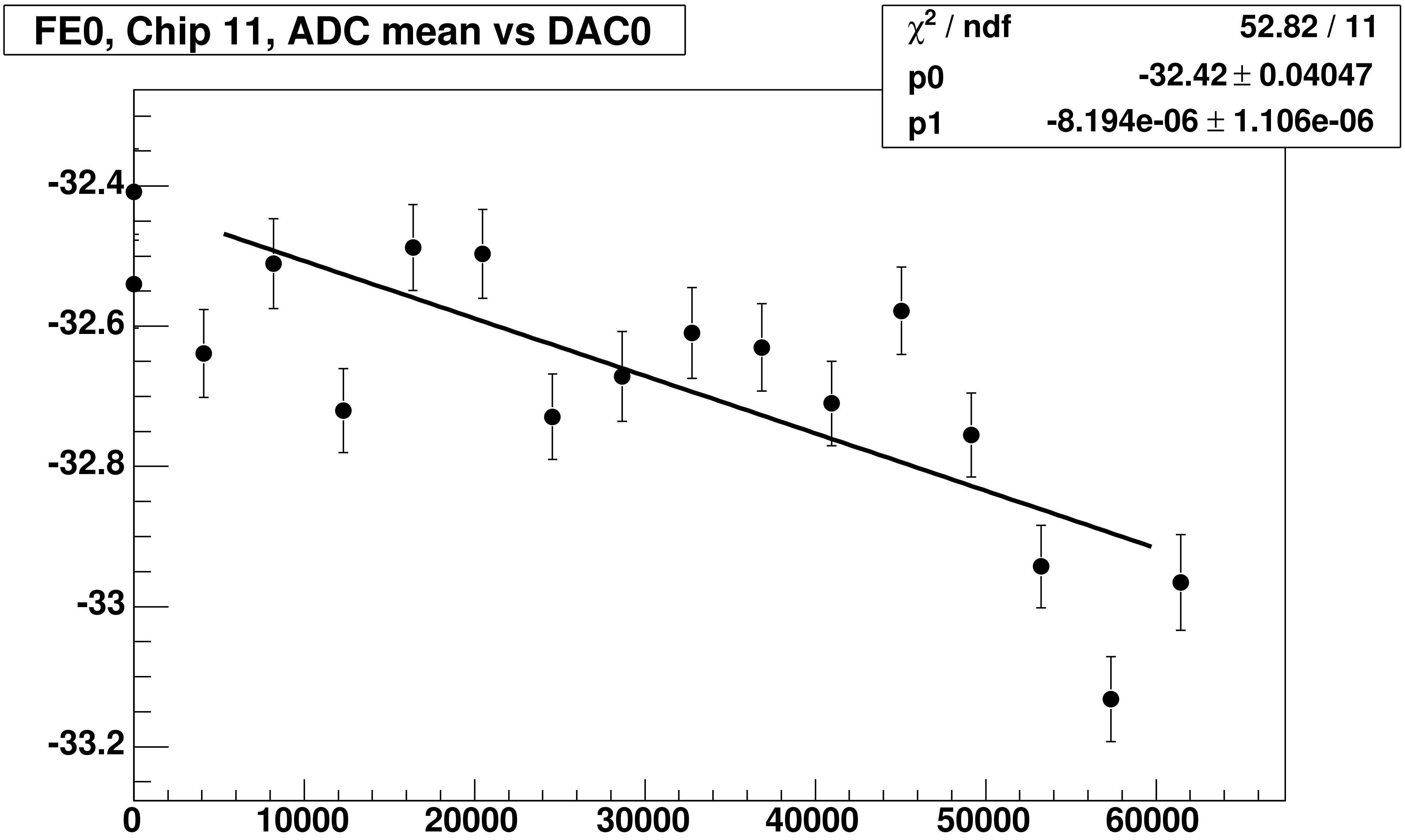

FE0, Chip 10, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

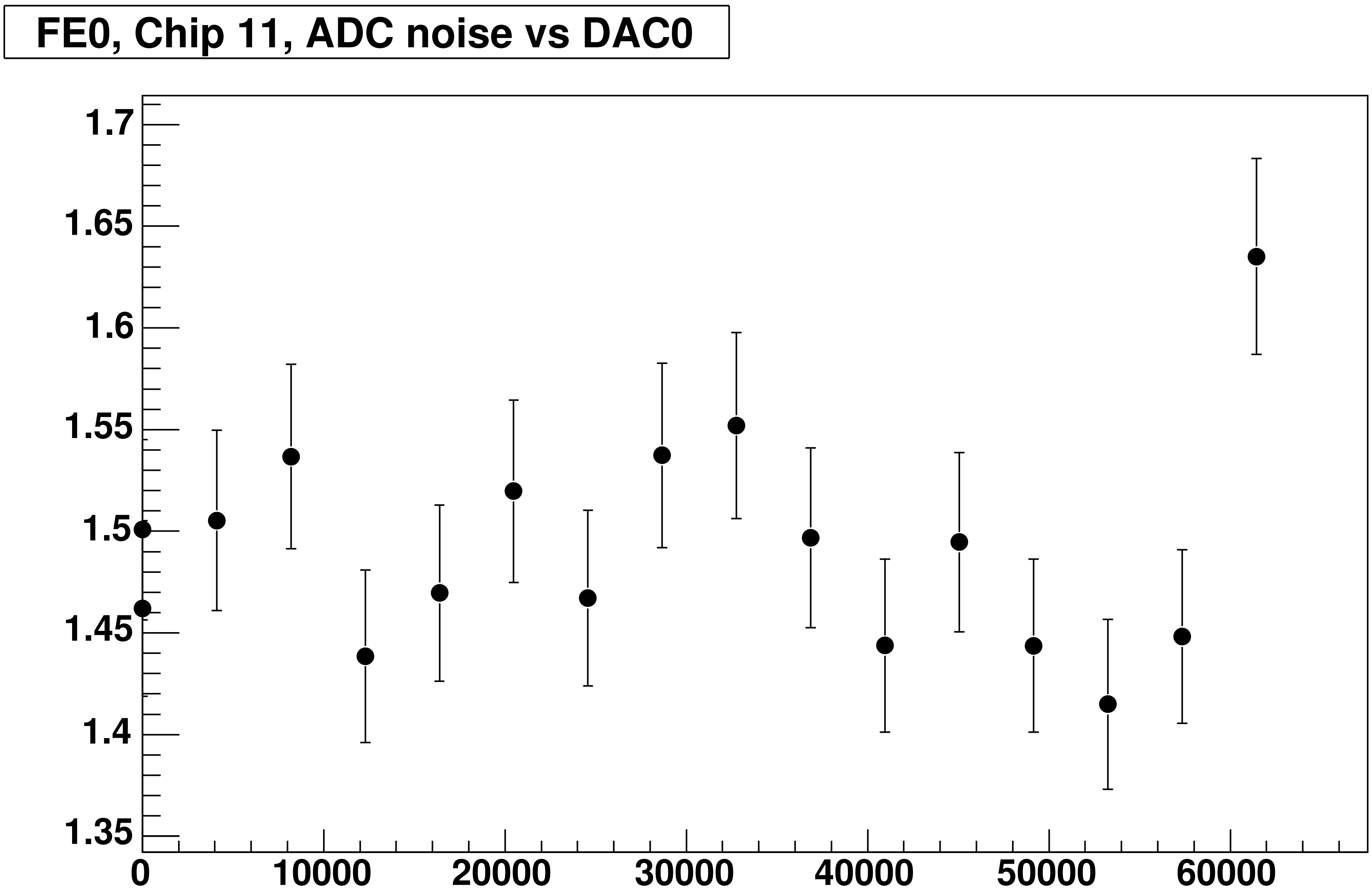

FE0, Chip 10, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

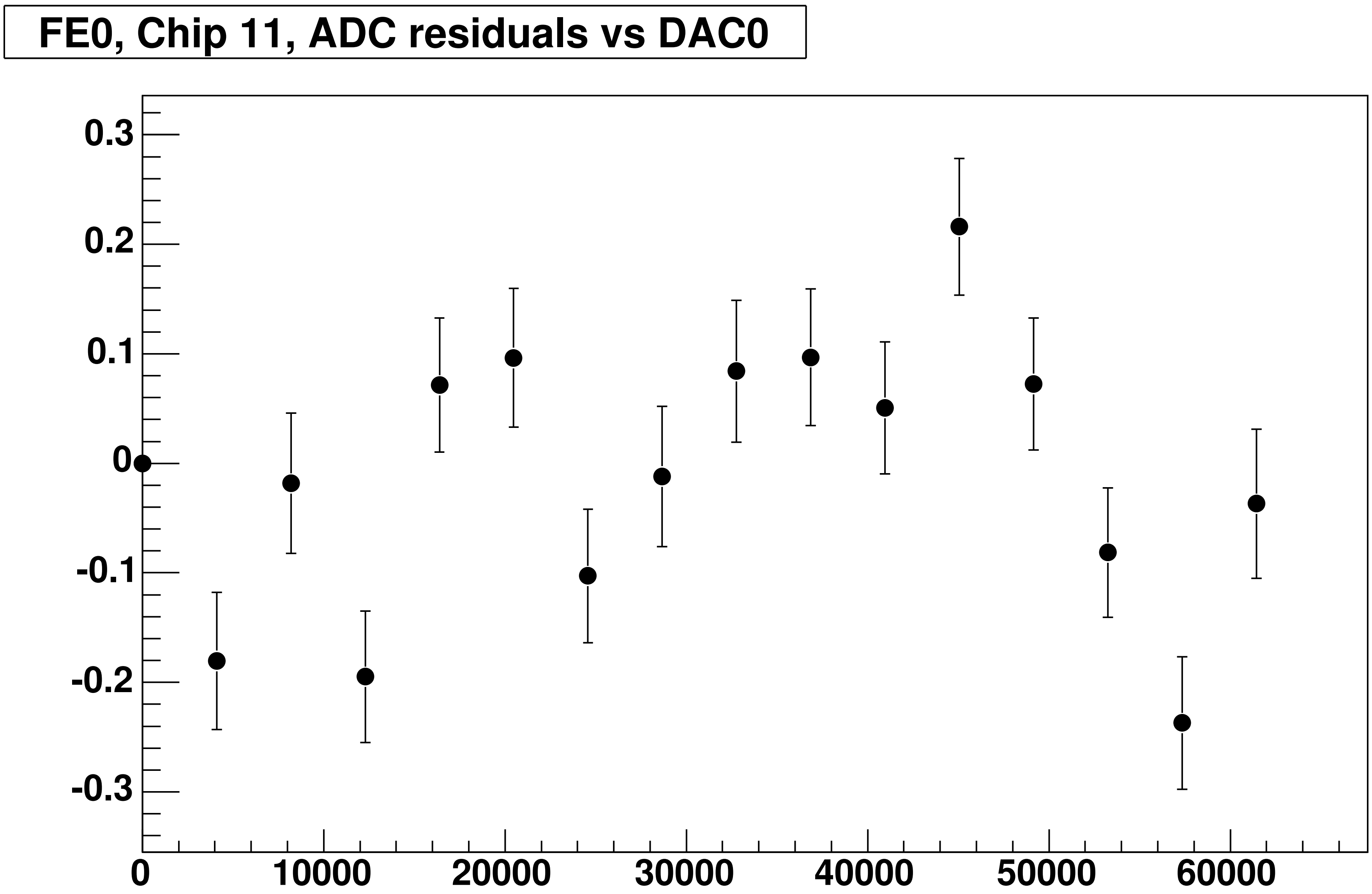

FE0, Chip 10, ADC mean vs DAC1
χ2 / ndf 2217 / 11
p0 -34.63 ± 0.04183
p1 0.4498 ± 1.348e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

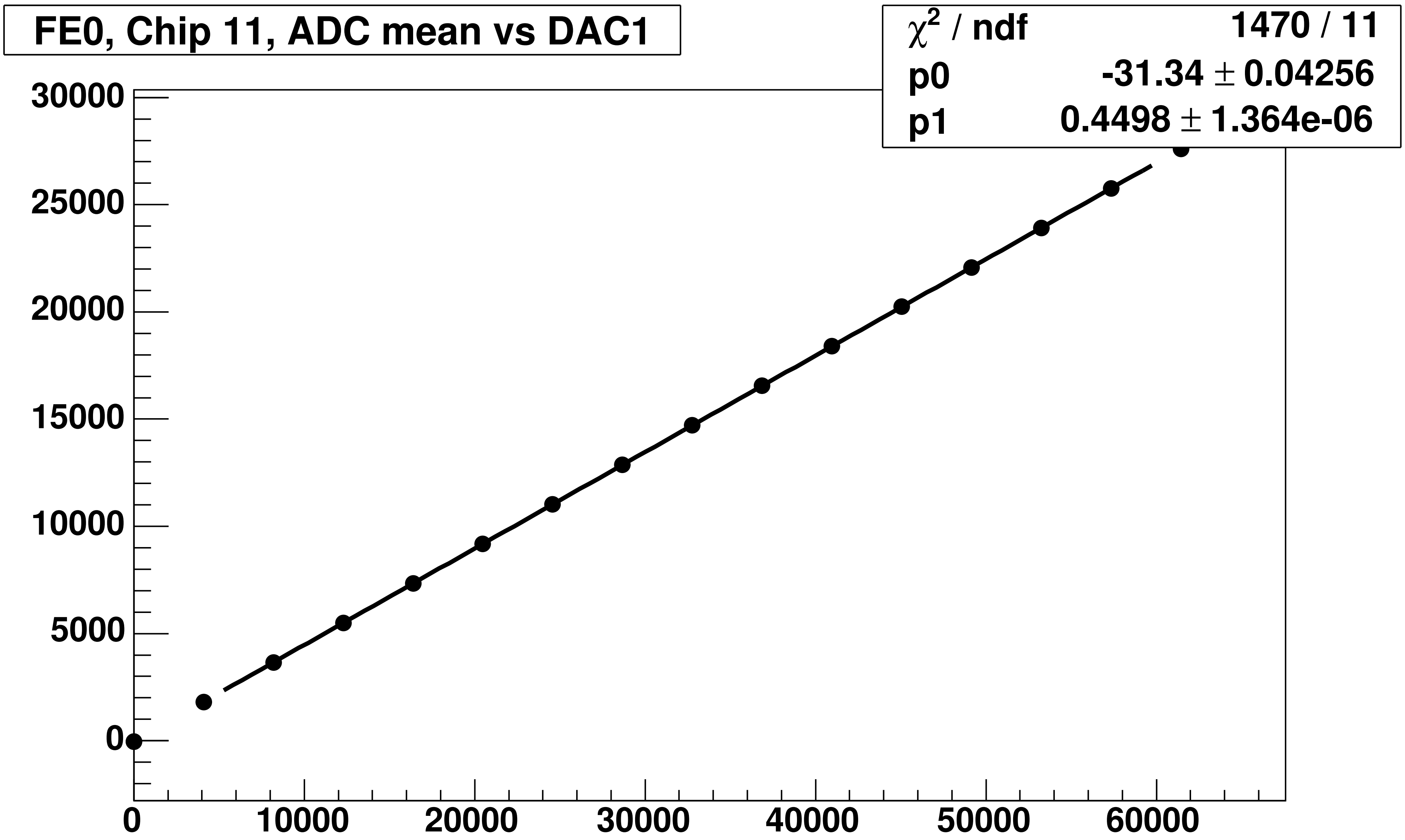

FE0, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

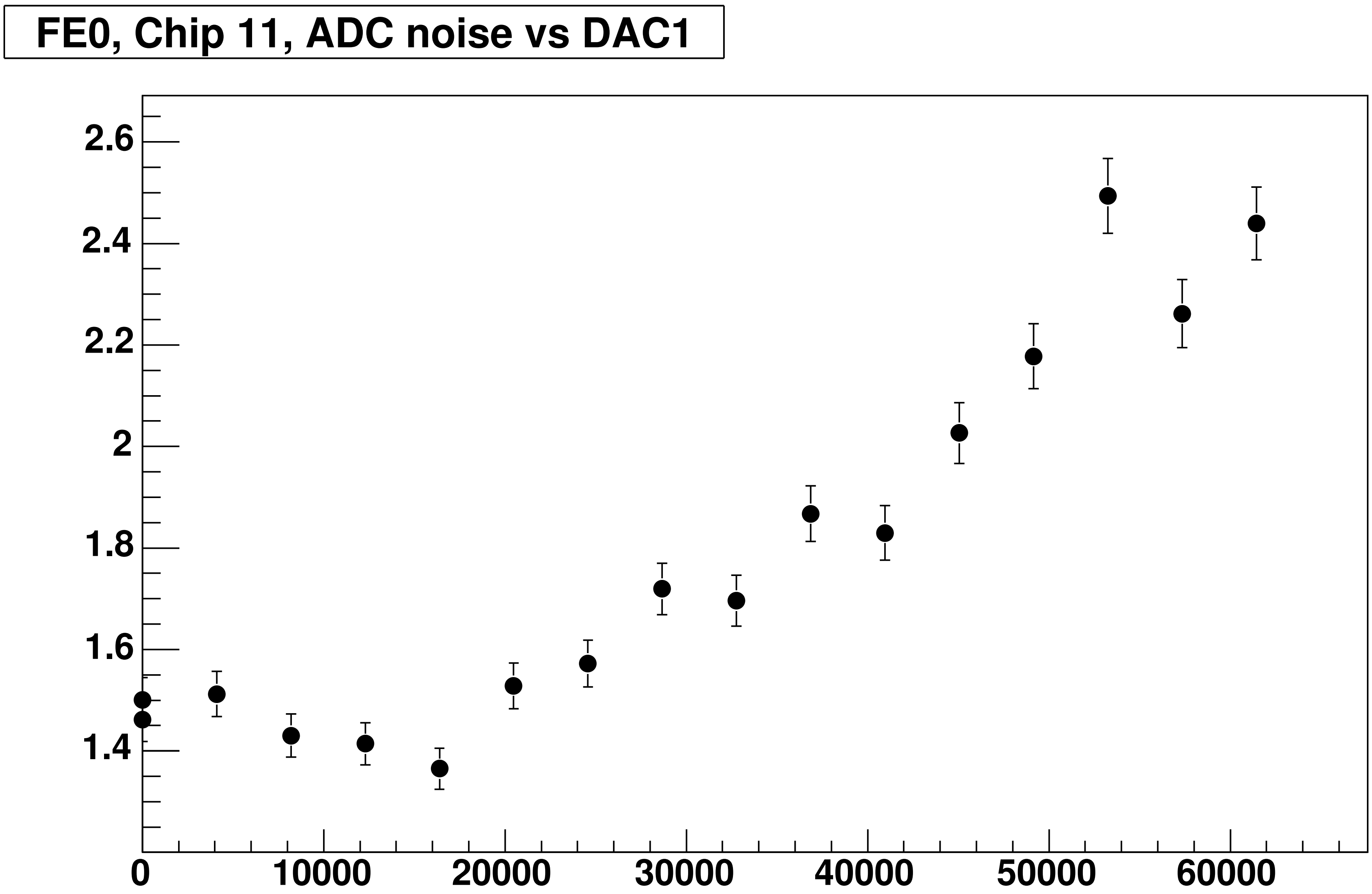

FE0, Chip 10, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000


FE0, Chip 11, ADC mean vs DAC0
χ2 / ndf 52.82 / 11
p0 -32.42 ± 0.04047
p1 -8.194e-06 ± 1.106e-06
-32.4
-32.6
-32.8
-33
-33.2
0
10000
20000
30000
40000
50000
60000

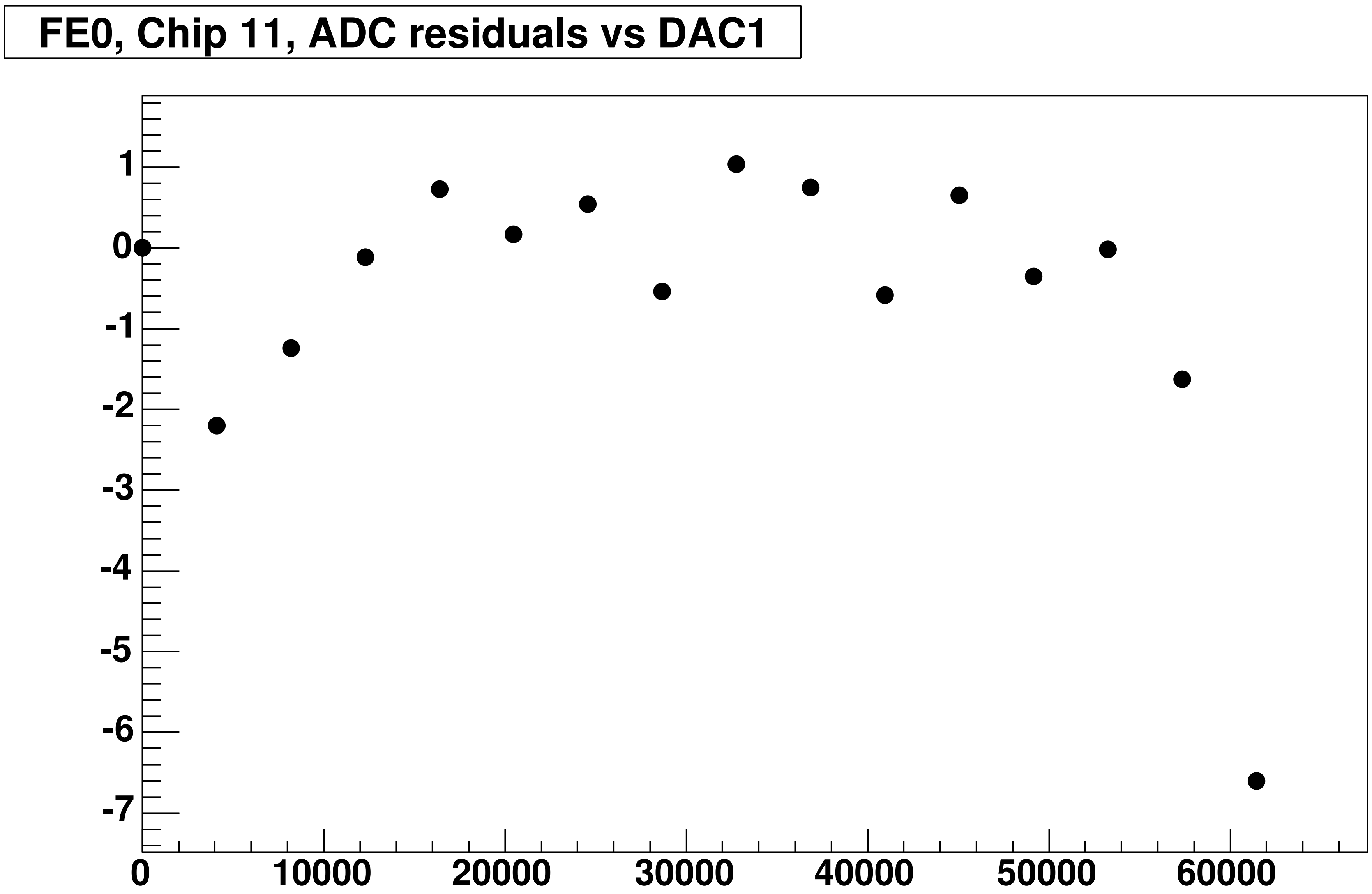

FE0, Chip 11, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

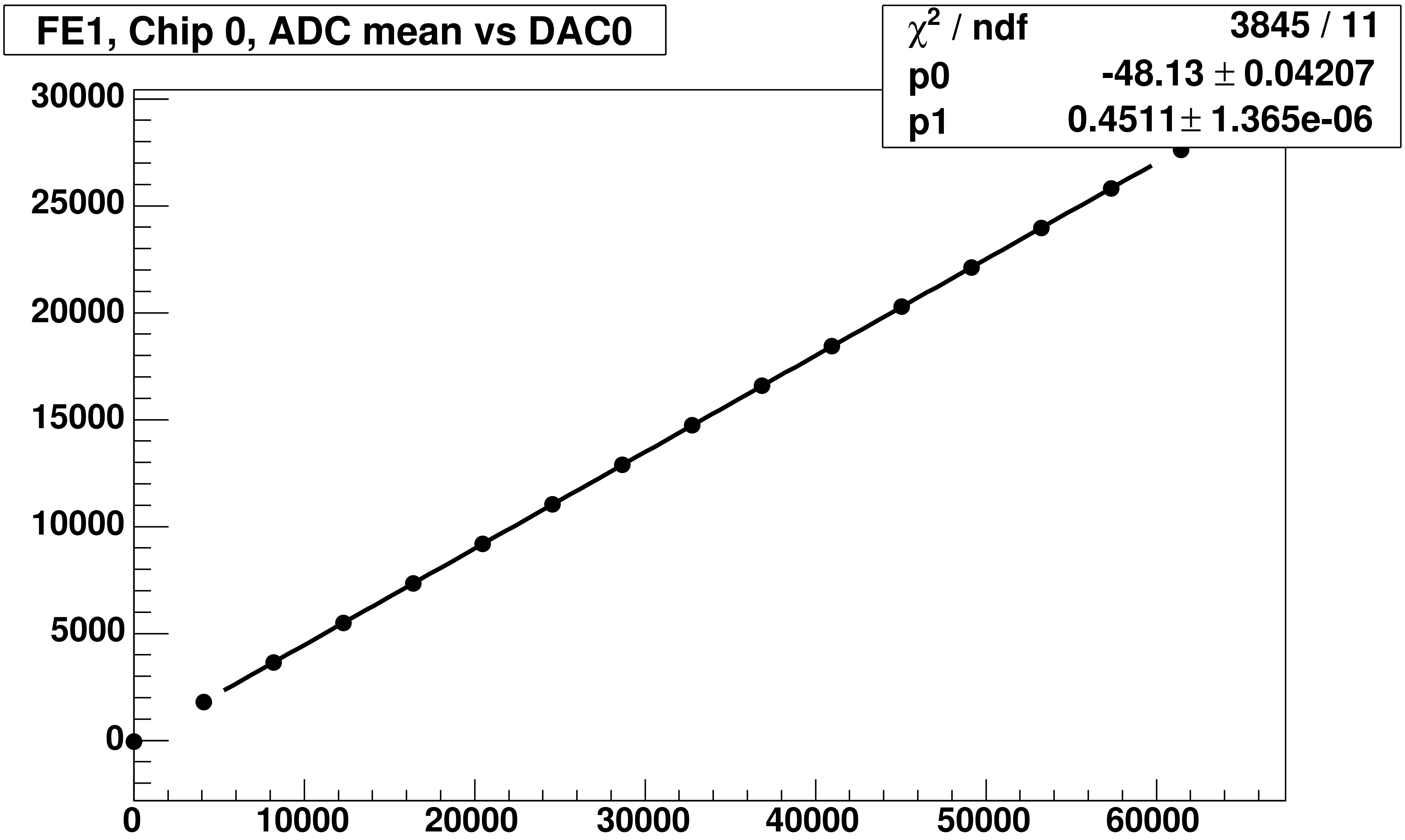

FE0, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

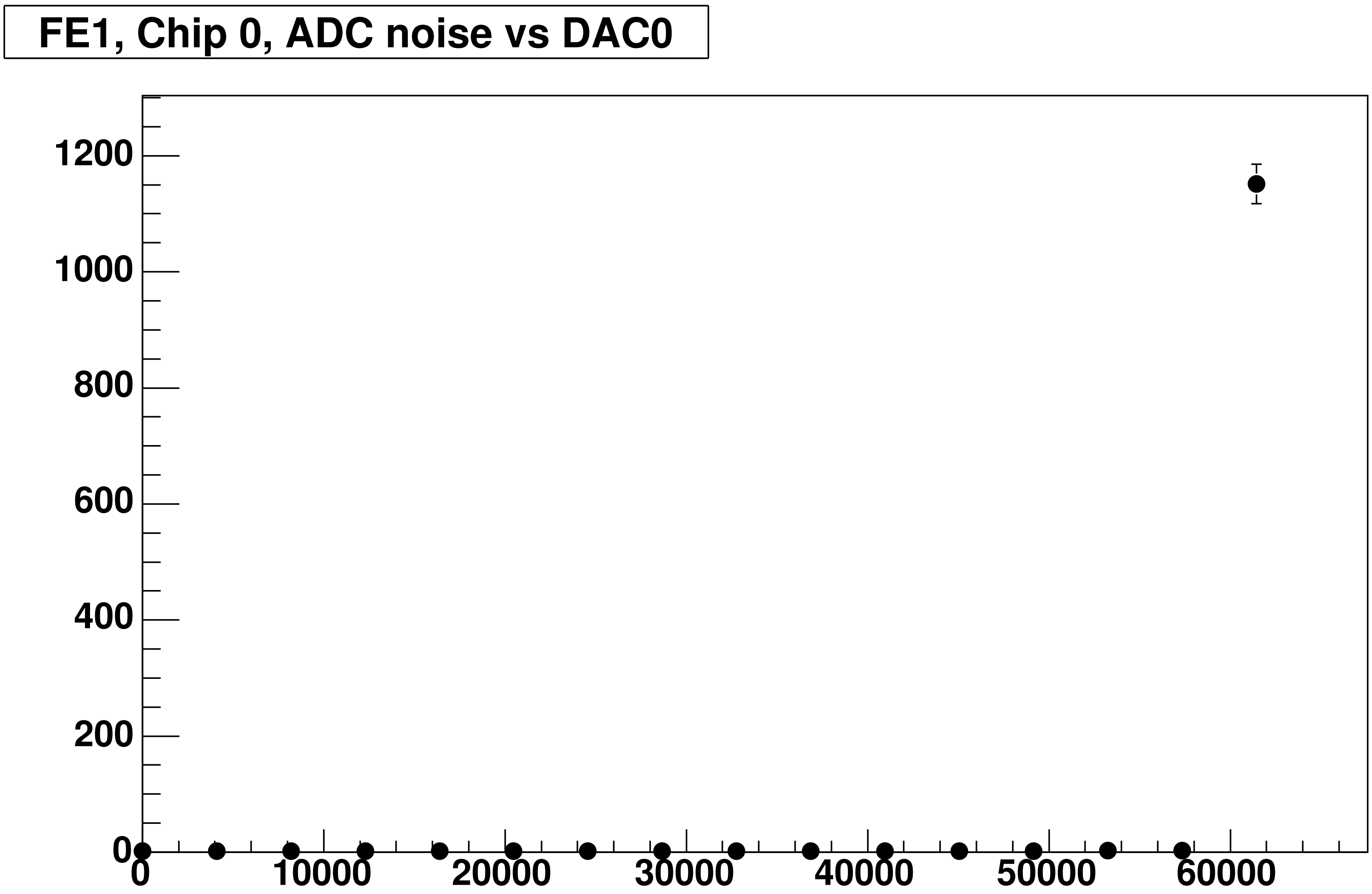

FE0, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1470 / 11
p0 -31.34 ± 0.04256
p1 0.4498 ± 1.364e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

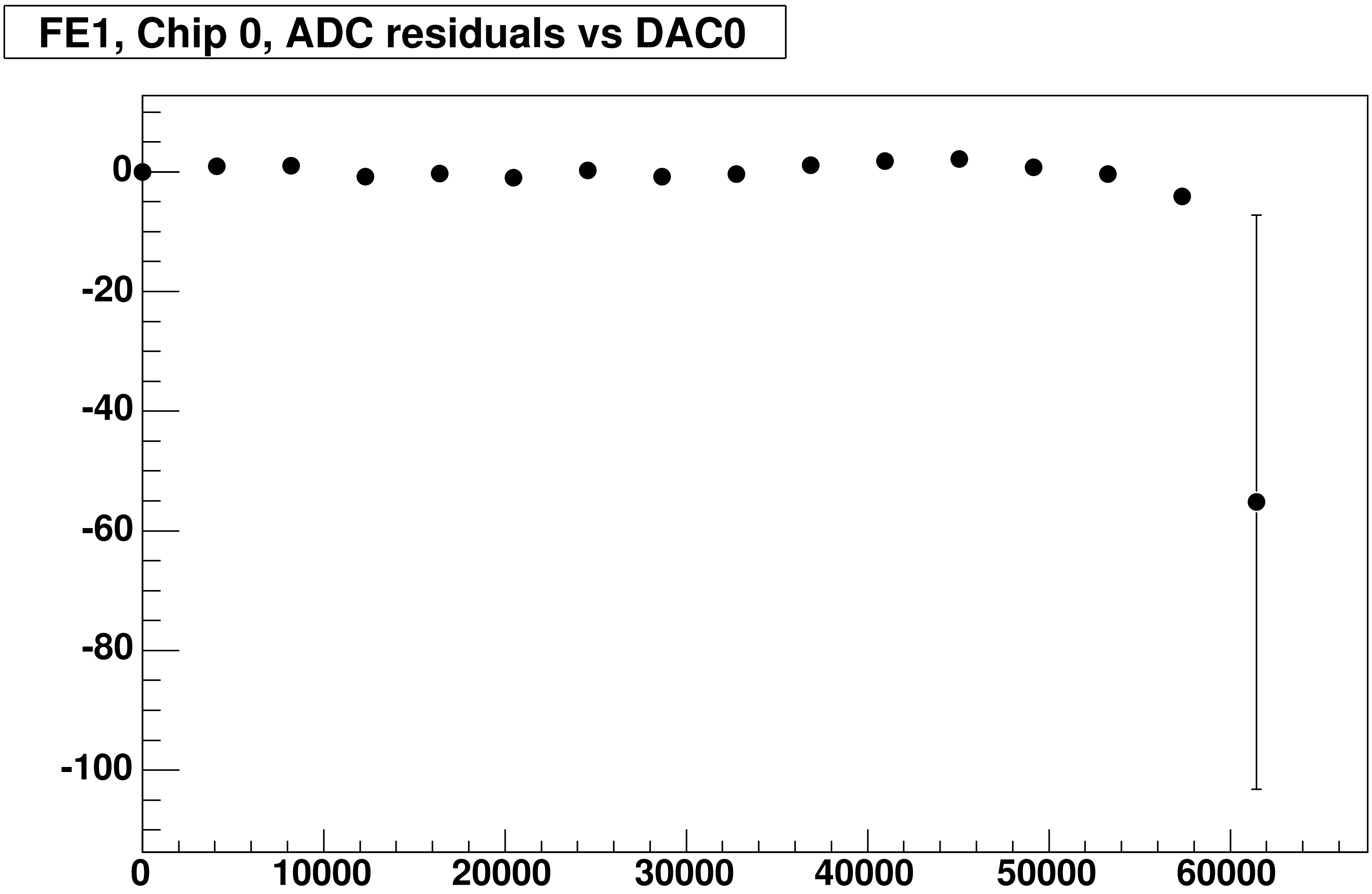


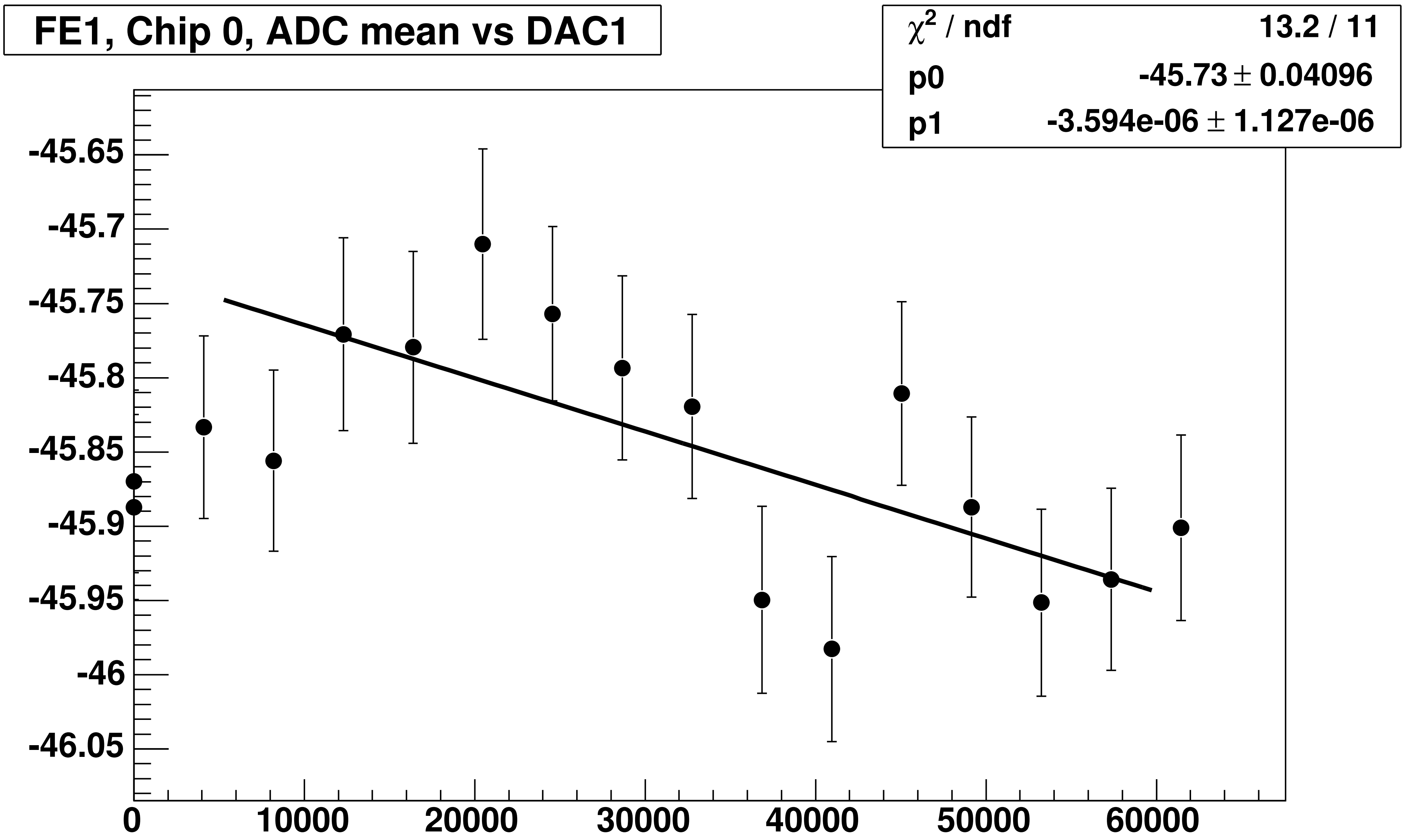
FE0, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

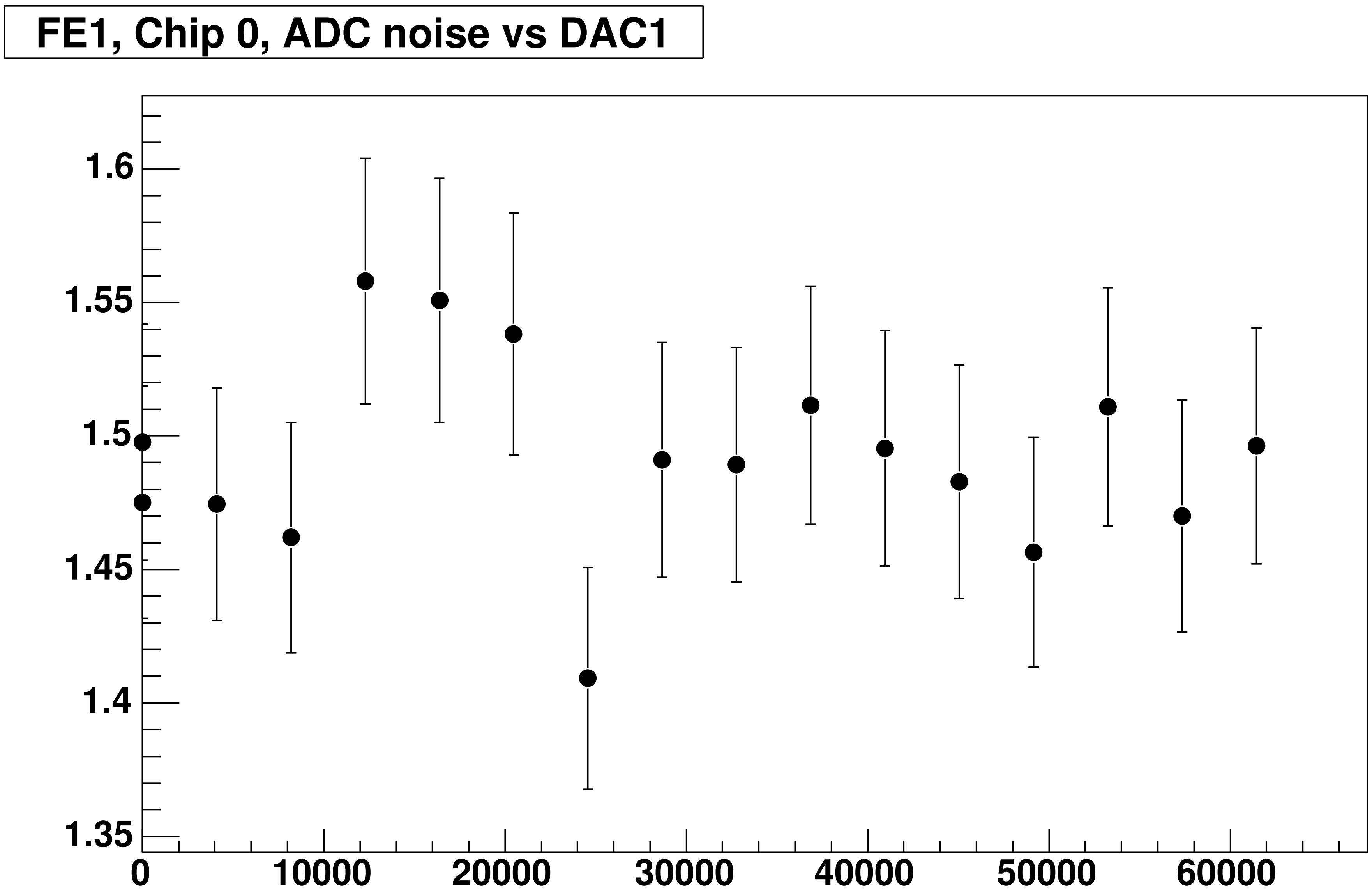

FE0, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000


FE1, Chip 0, ADC mean vs DAC0
χ^2 / ndf 3845 / 11
p0 -48.13 ± 0.04207
p1 0.4511 ± 1.365e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

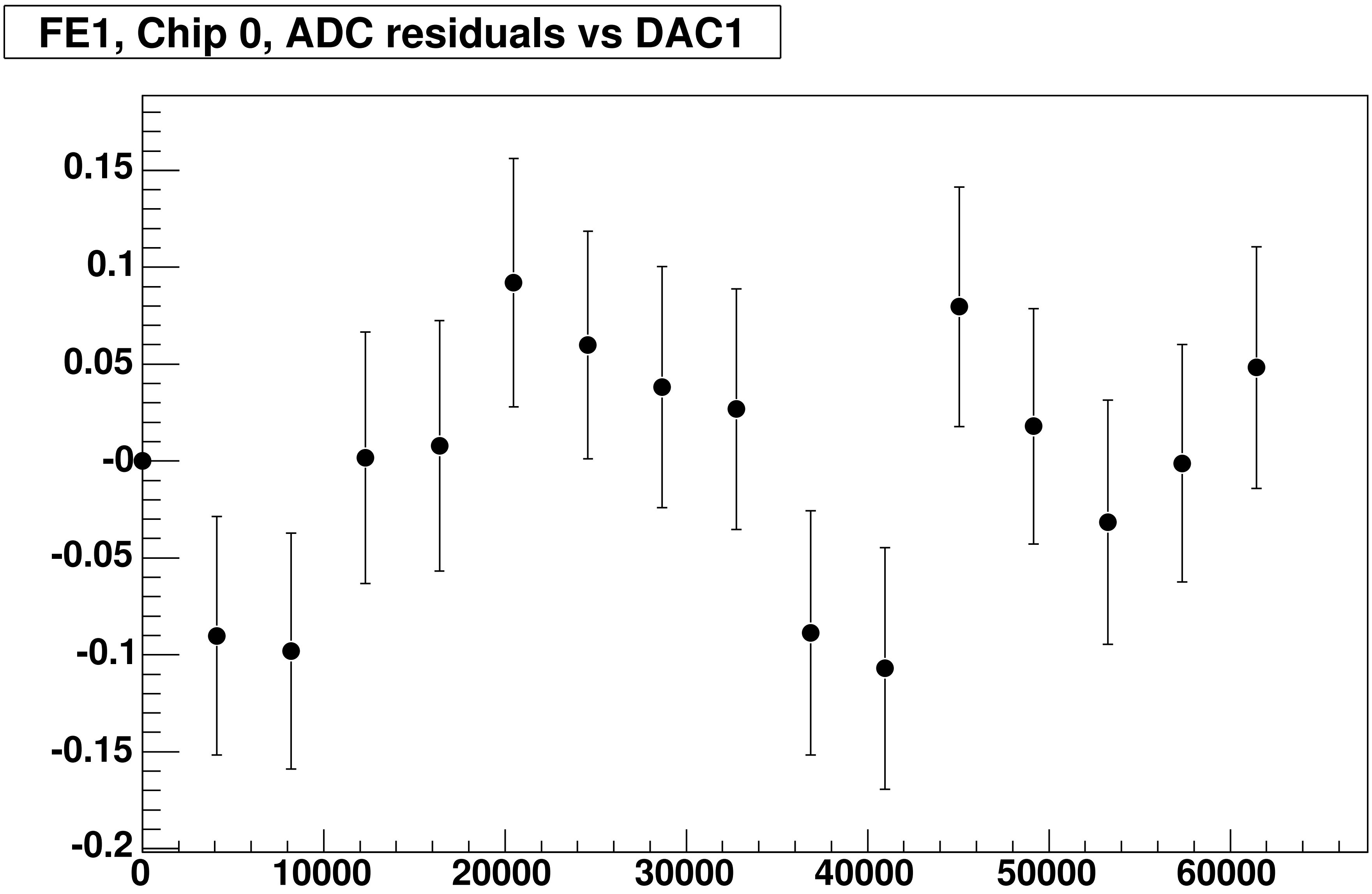

FE1, Chip 0, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

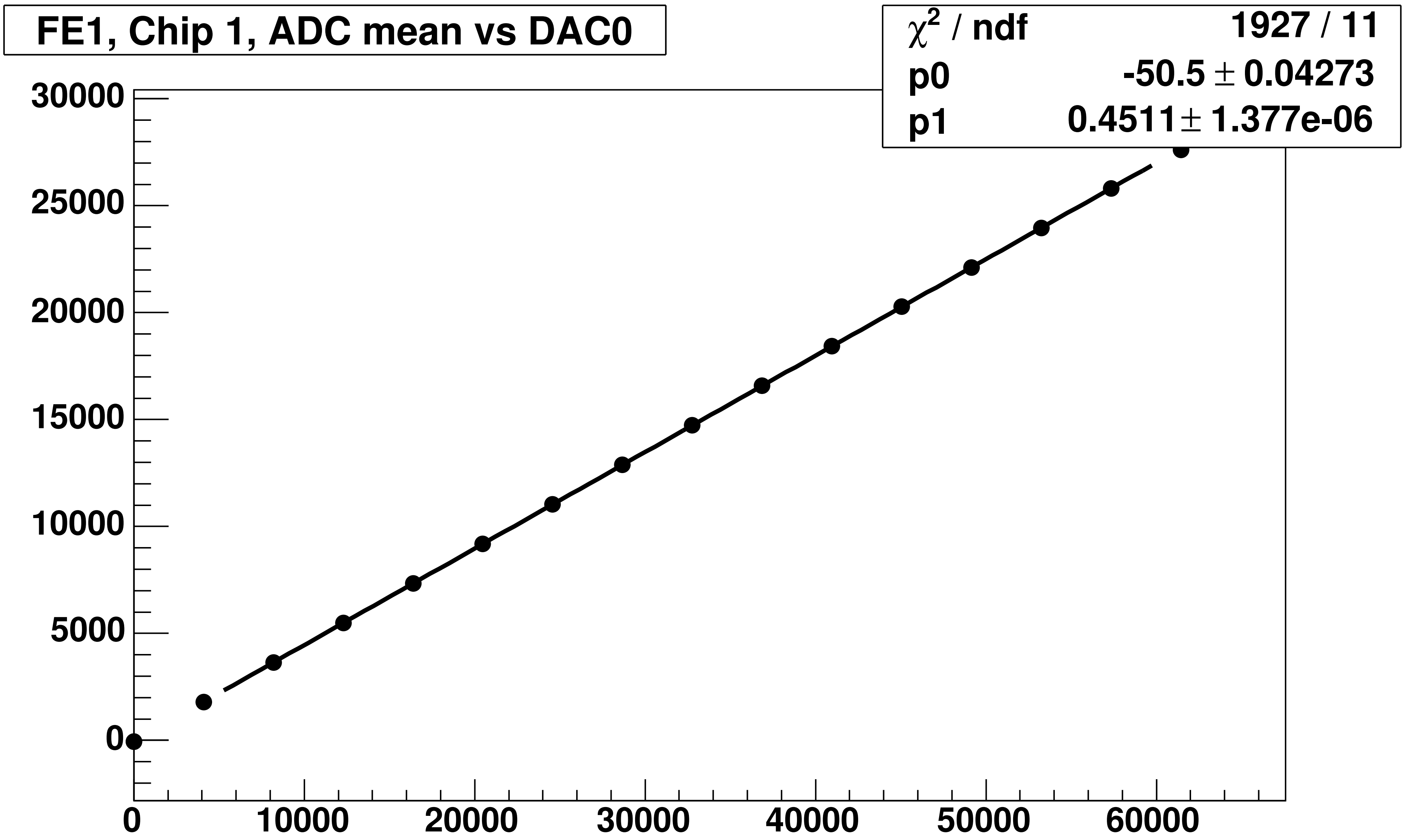

FE1, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE1, Chip 0, ADC mean vs DAC1
χ² / ndf 13.2 / 11
p0 -45.73 ± 0.04096
p1 -3.594e-06 ± 1.127e-06
-45.65
-45.7
-45.75
-45.8
-45.85
-45.9
-45.95
-46
-46.05
0
10000
20000
30000
40000
50000
60000

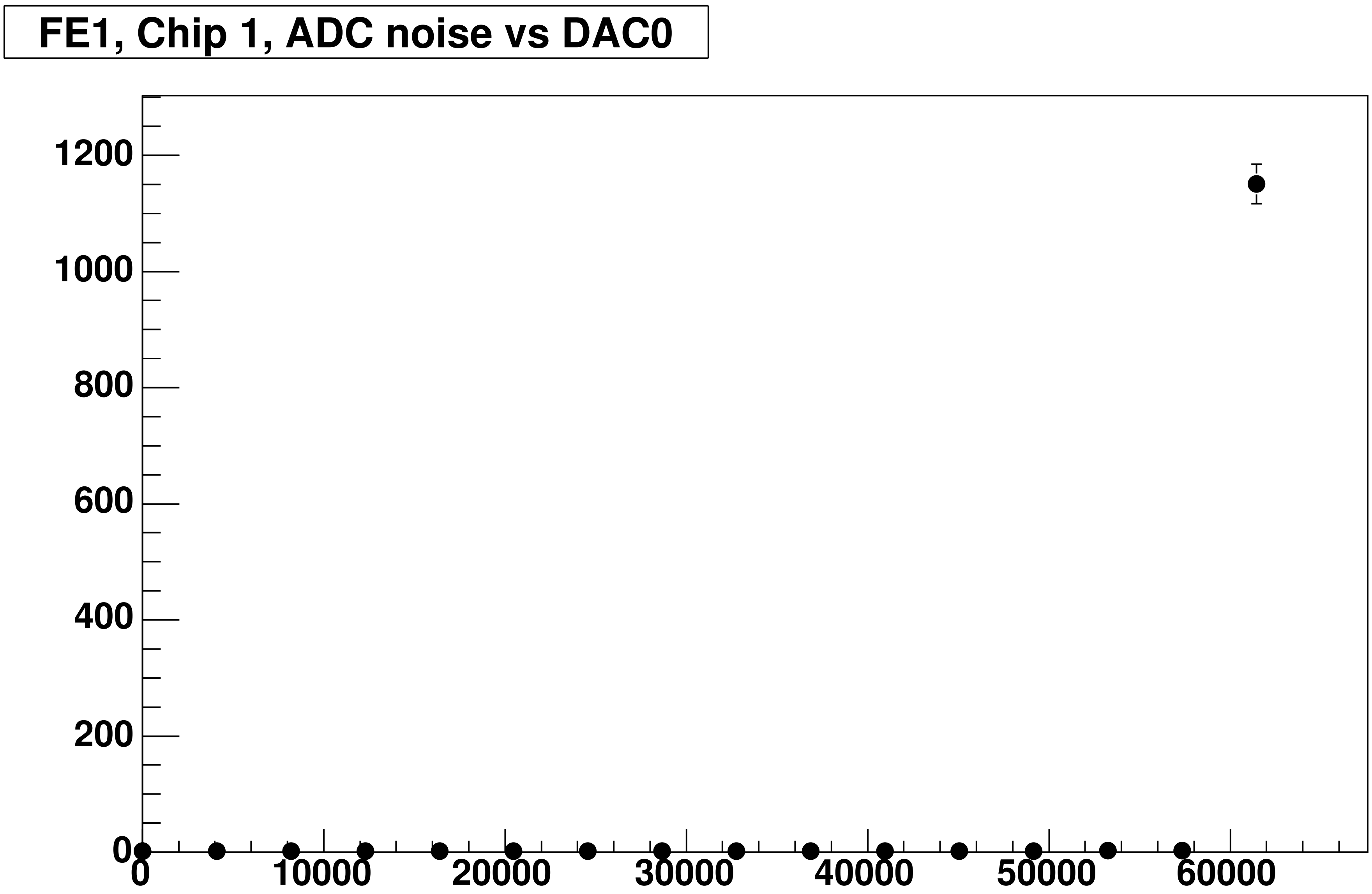


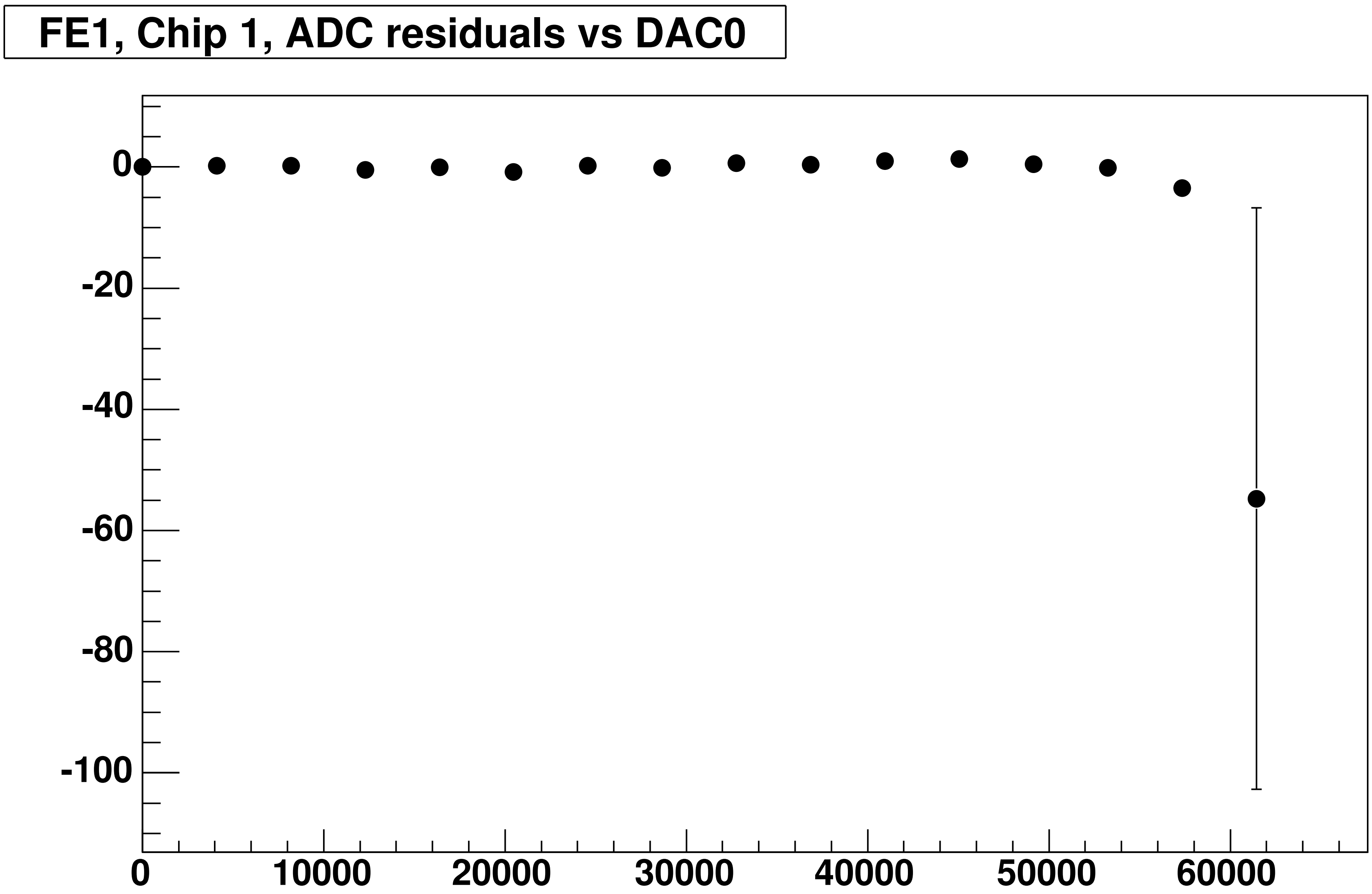
FE1, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

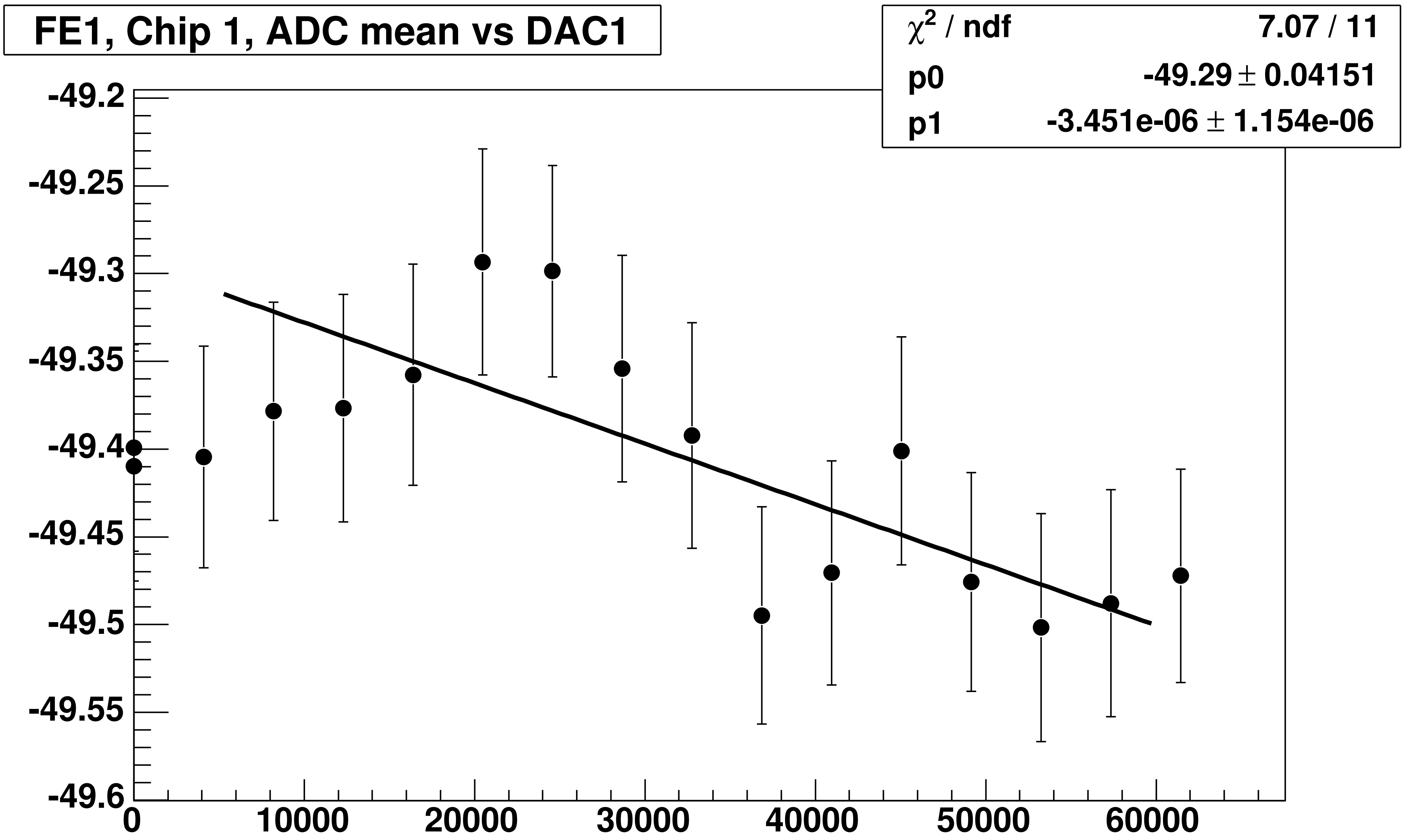

FE1, Chip 0, ADC residuals vs DAC1
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



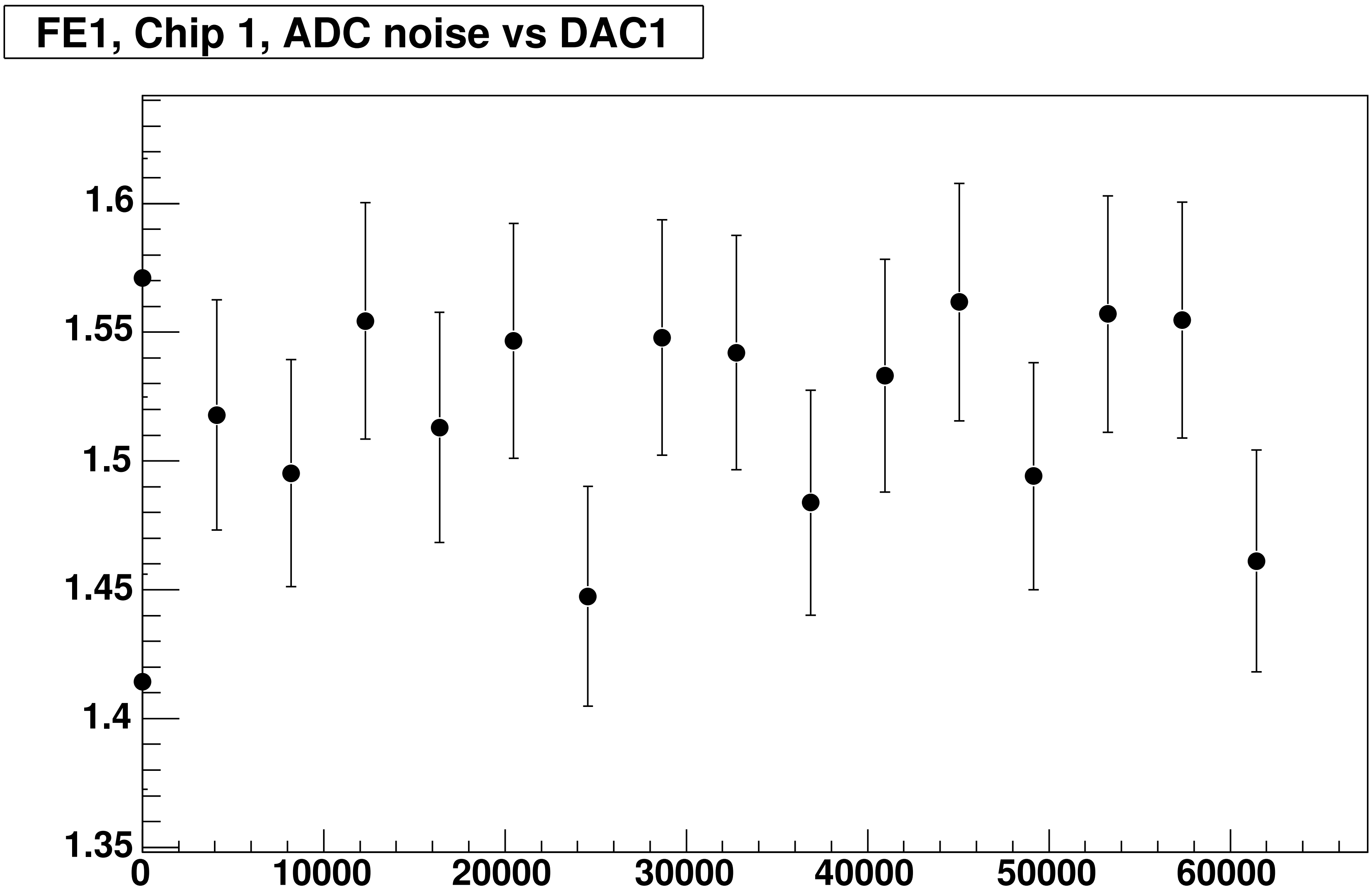
FE1, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1927 / 11
p0 -50.5 ± 0.04273
p1 0.4511 ± 1.377e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

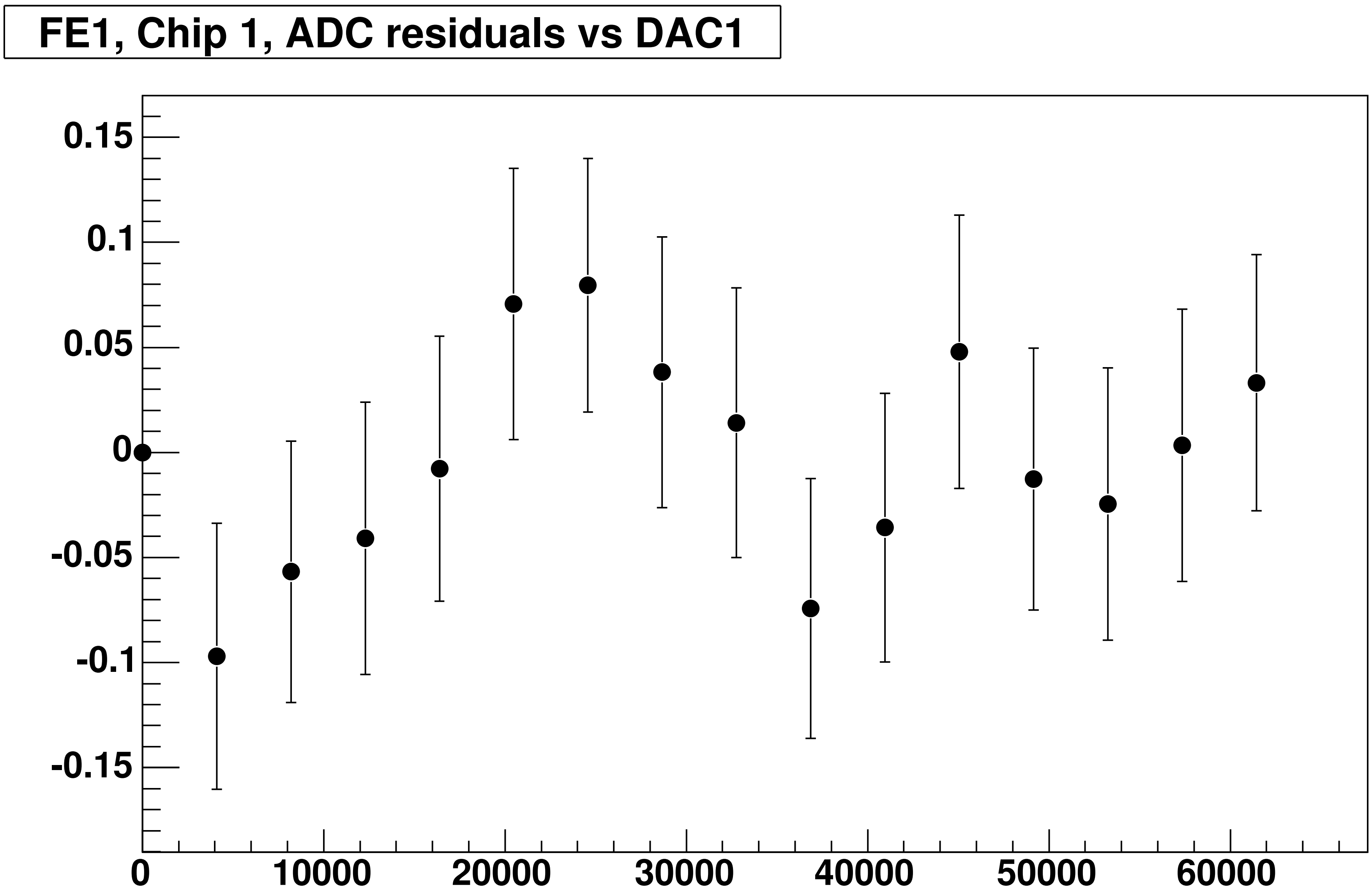

FE1, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



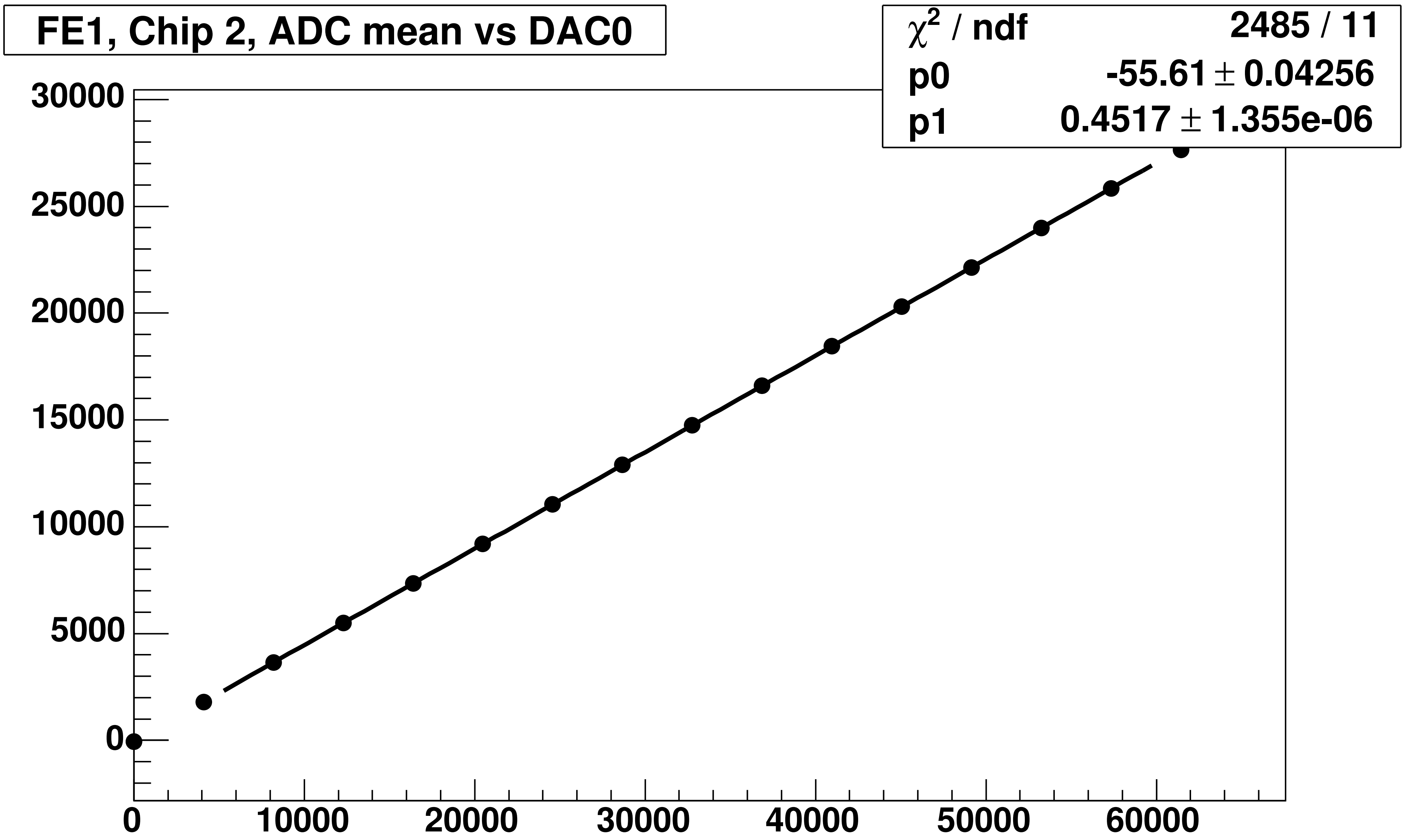
FE1, Chip 1, ADC mean vs DAC1
χ^2 / ndf 7.07 / 11
p0 -49.29 ± 0.04151
p1 -3.451e-06 ± 1.154e-06
-49.2
-49.25
-49.3
-49.35
-49.4
-49.45
-49.5
-49.55
-49.6
0
10000
20000
30000
40000
50000
60000



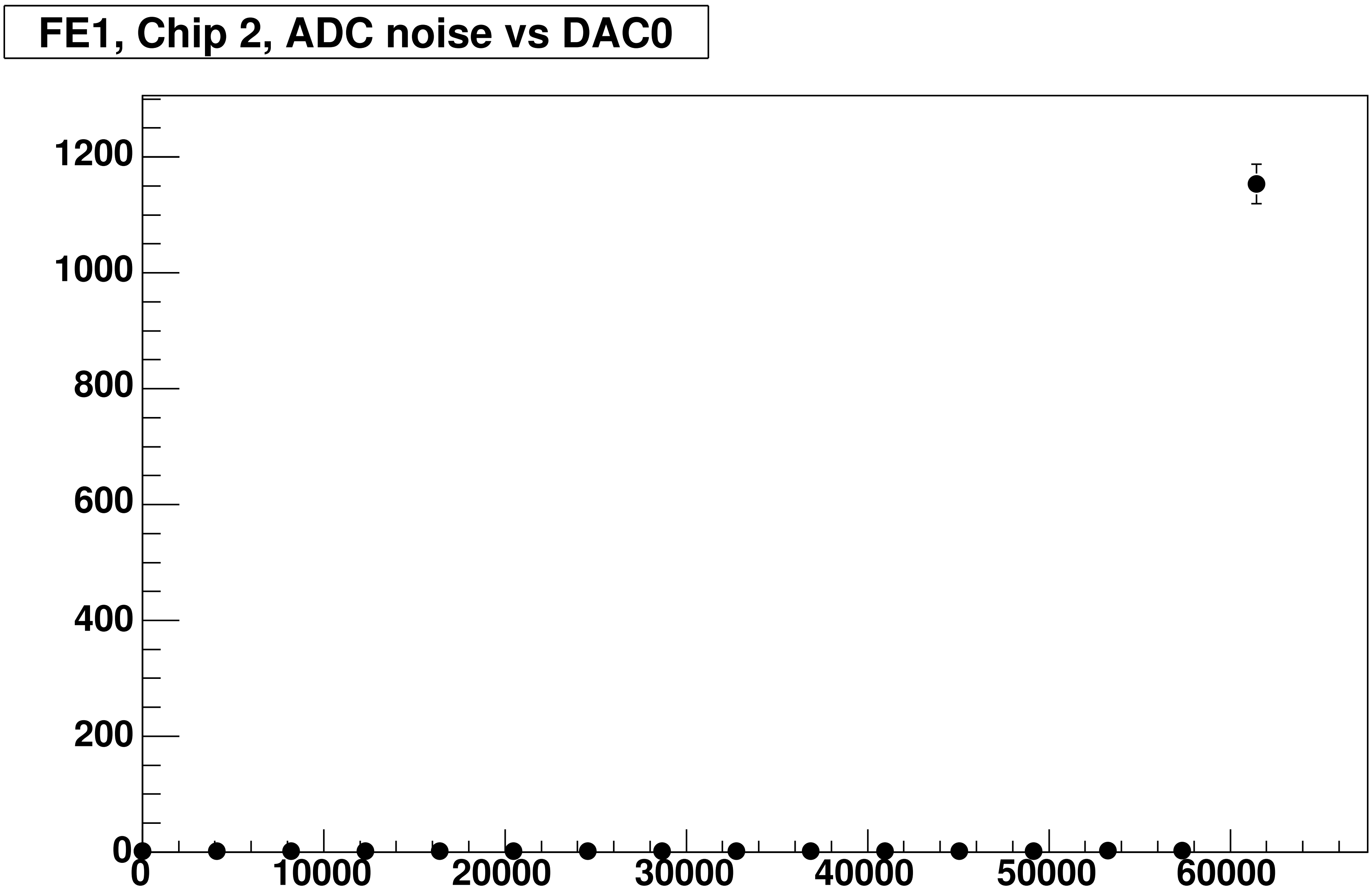
FE1, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

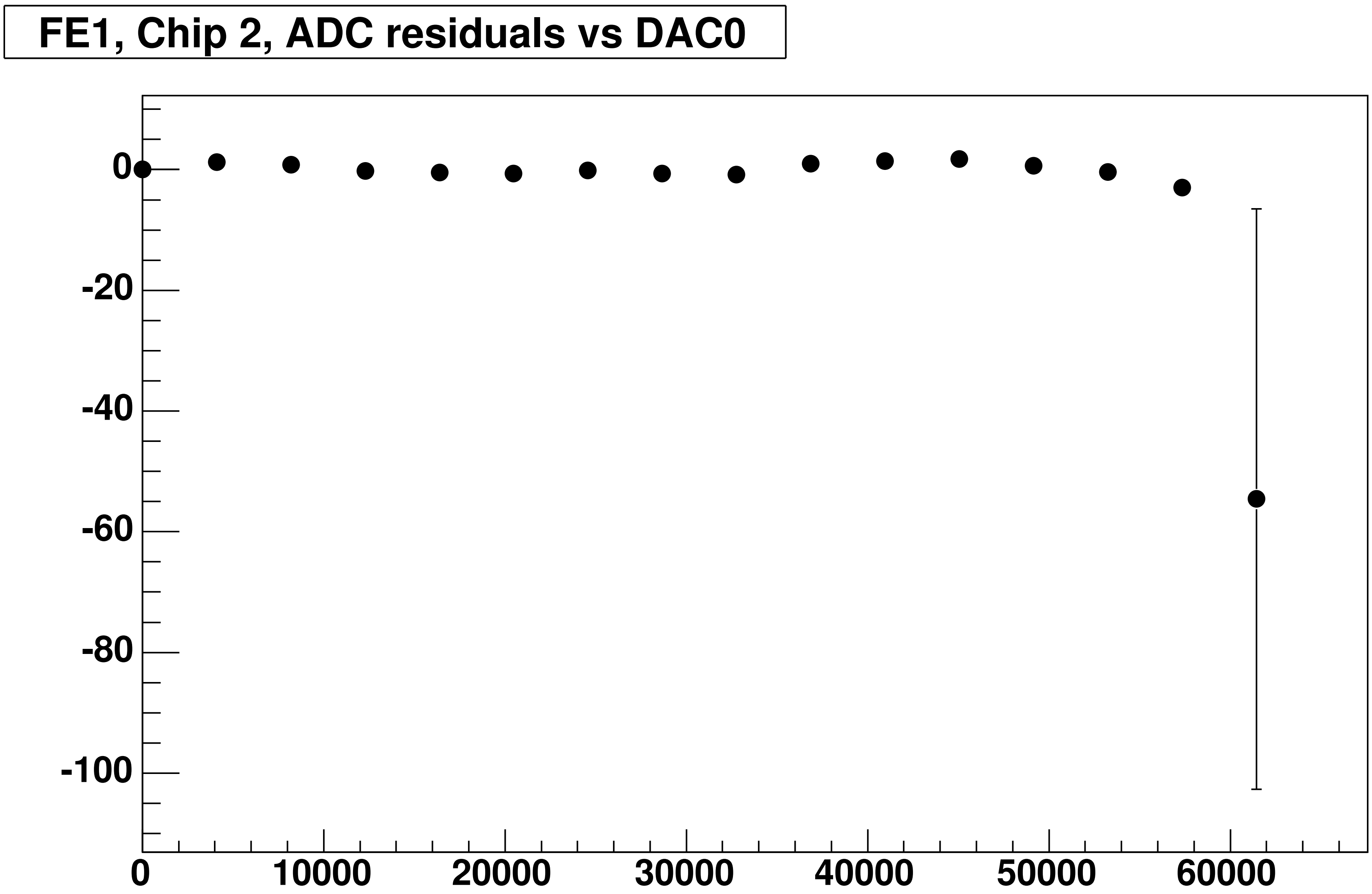


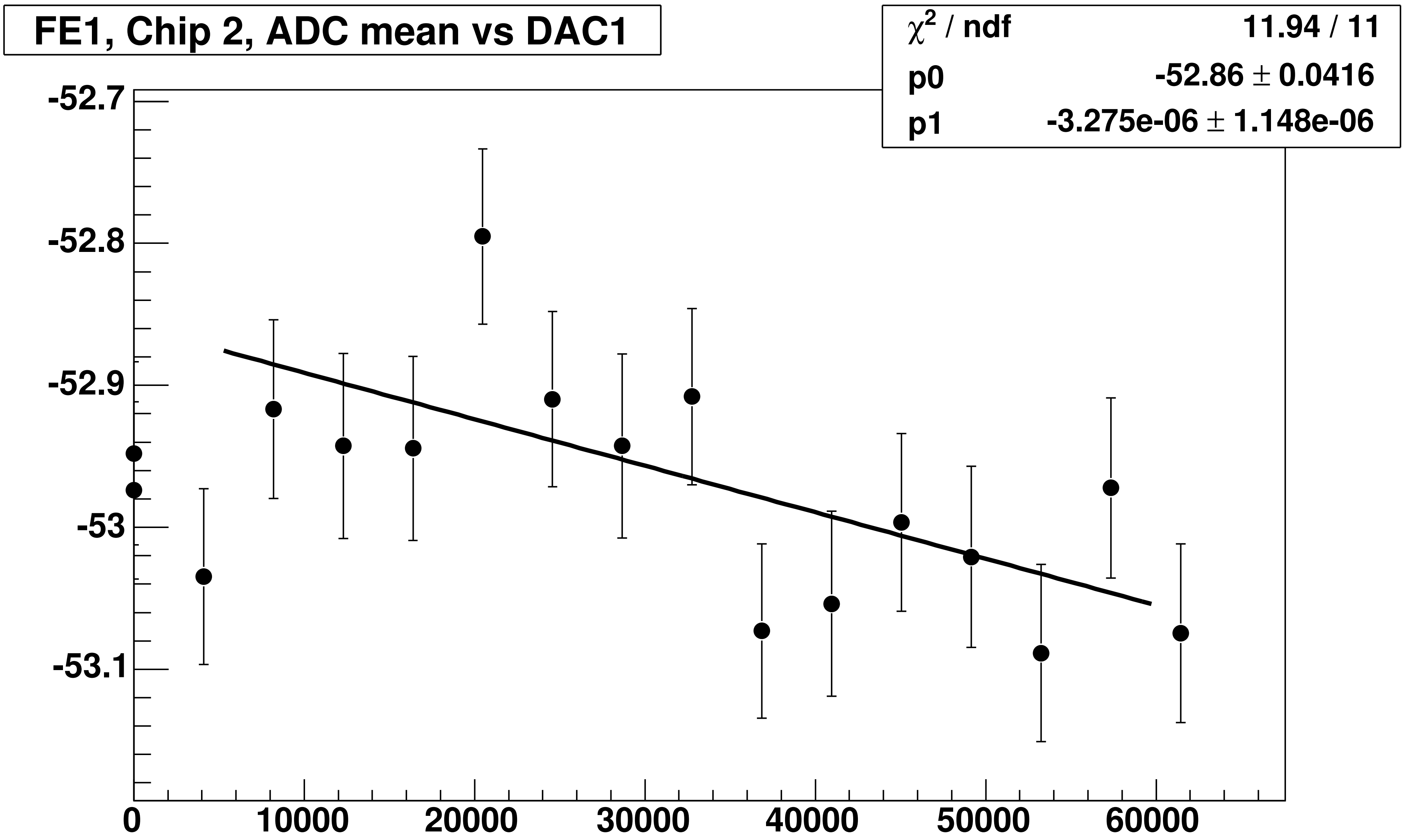
FE1, Chip 1, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



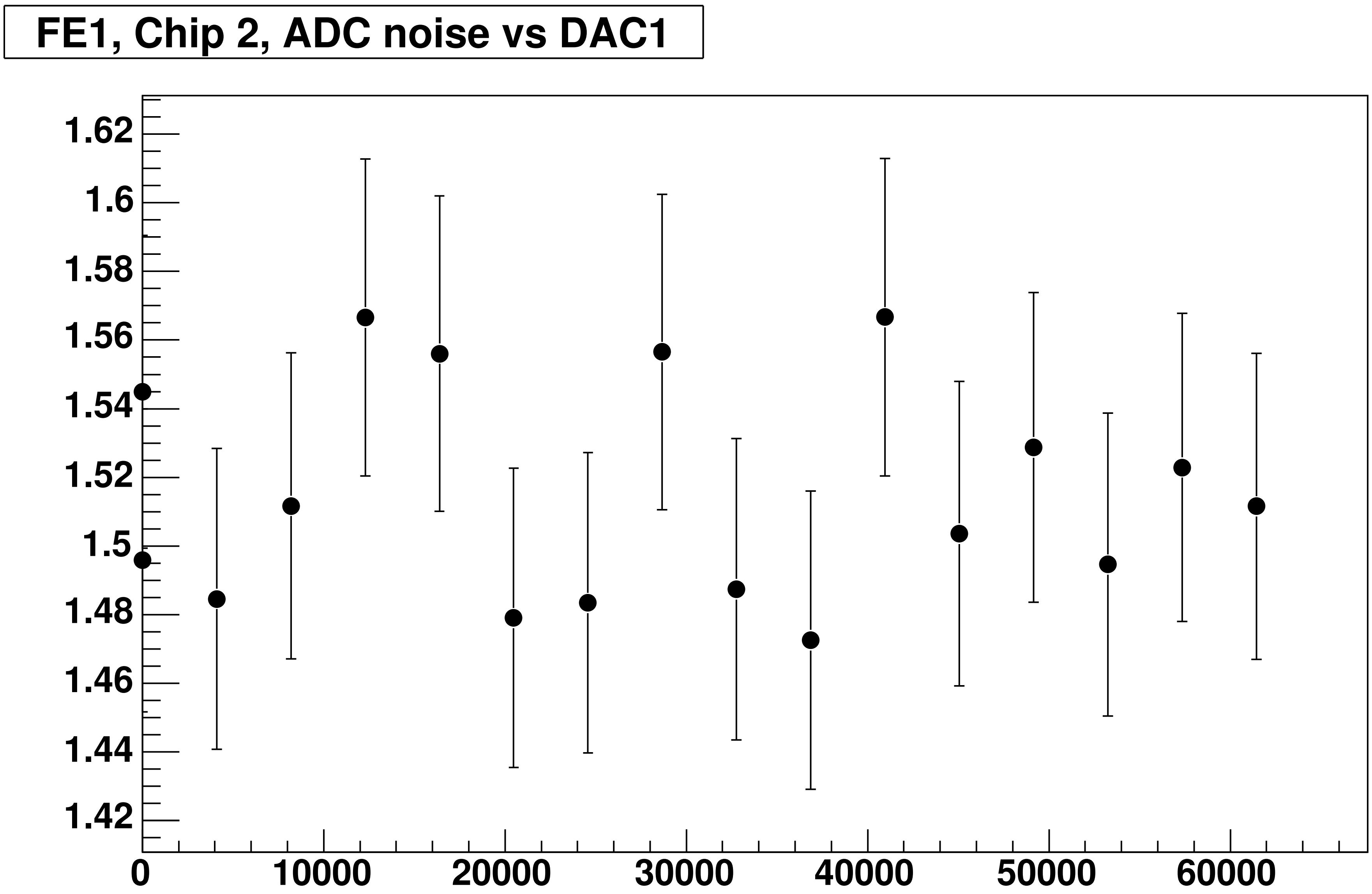
FE1, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2485 / 11
p0 -55.61 ± 0.04256
p1 0.4517 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

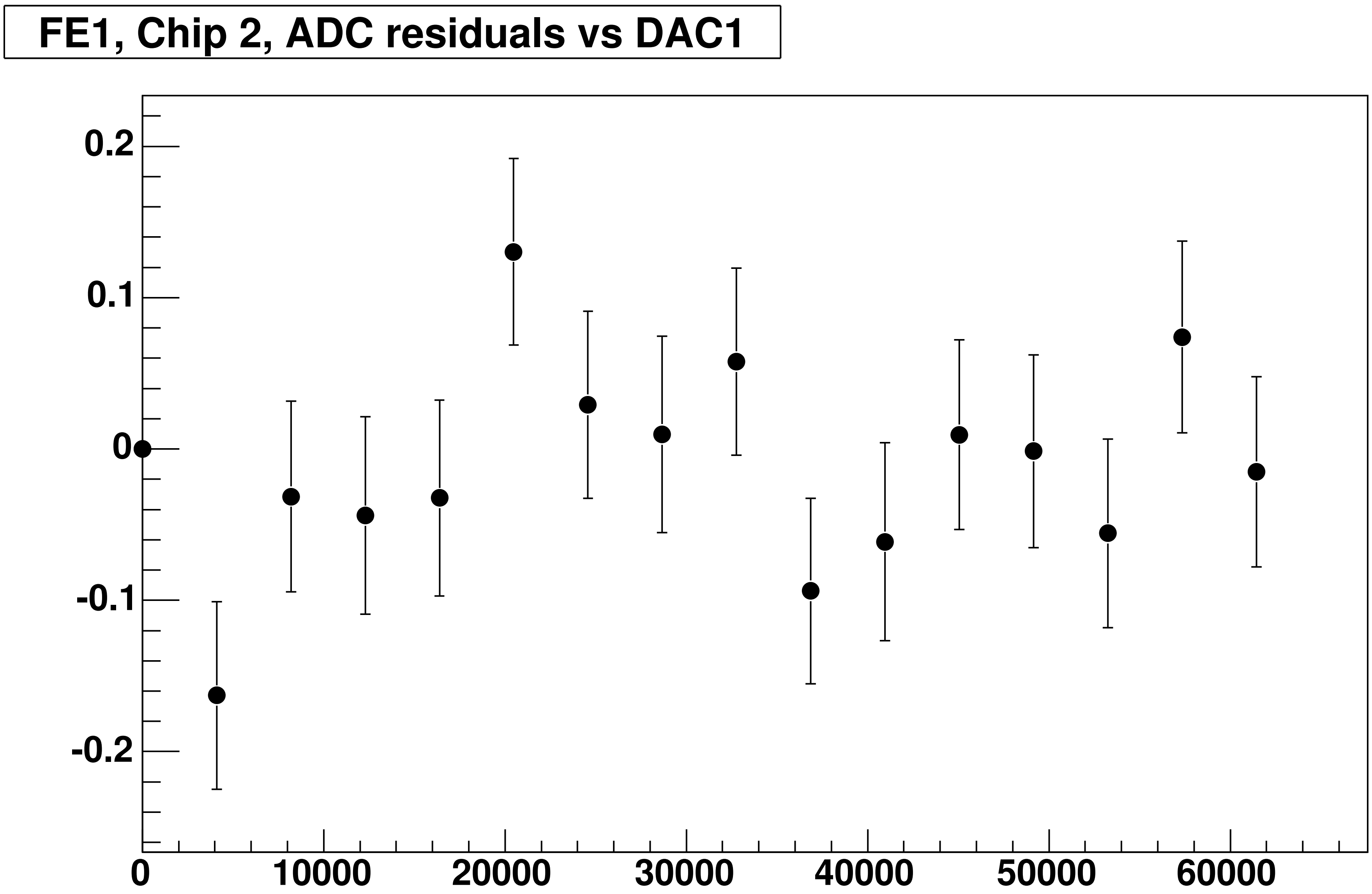

FE1, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

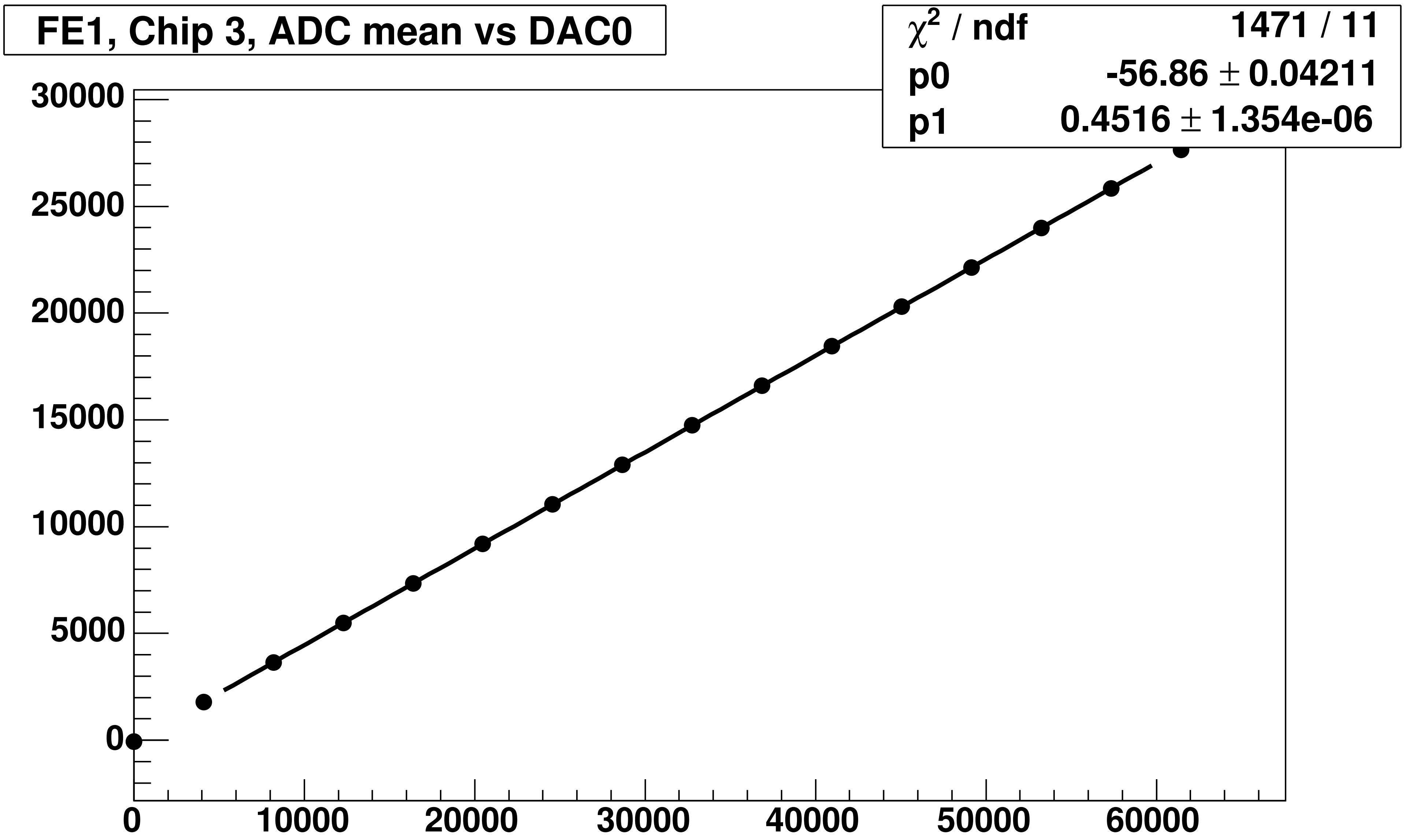

FE1, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



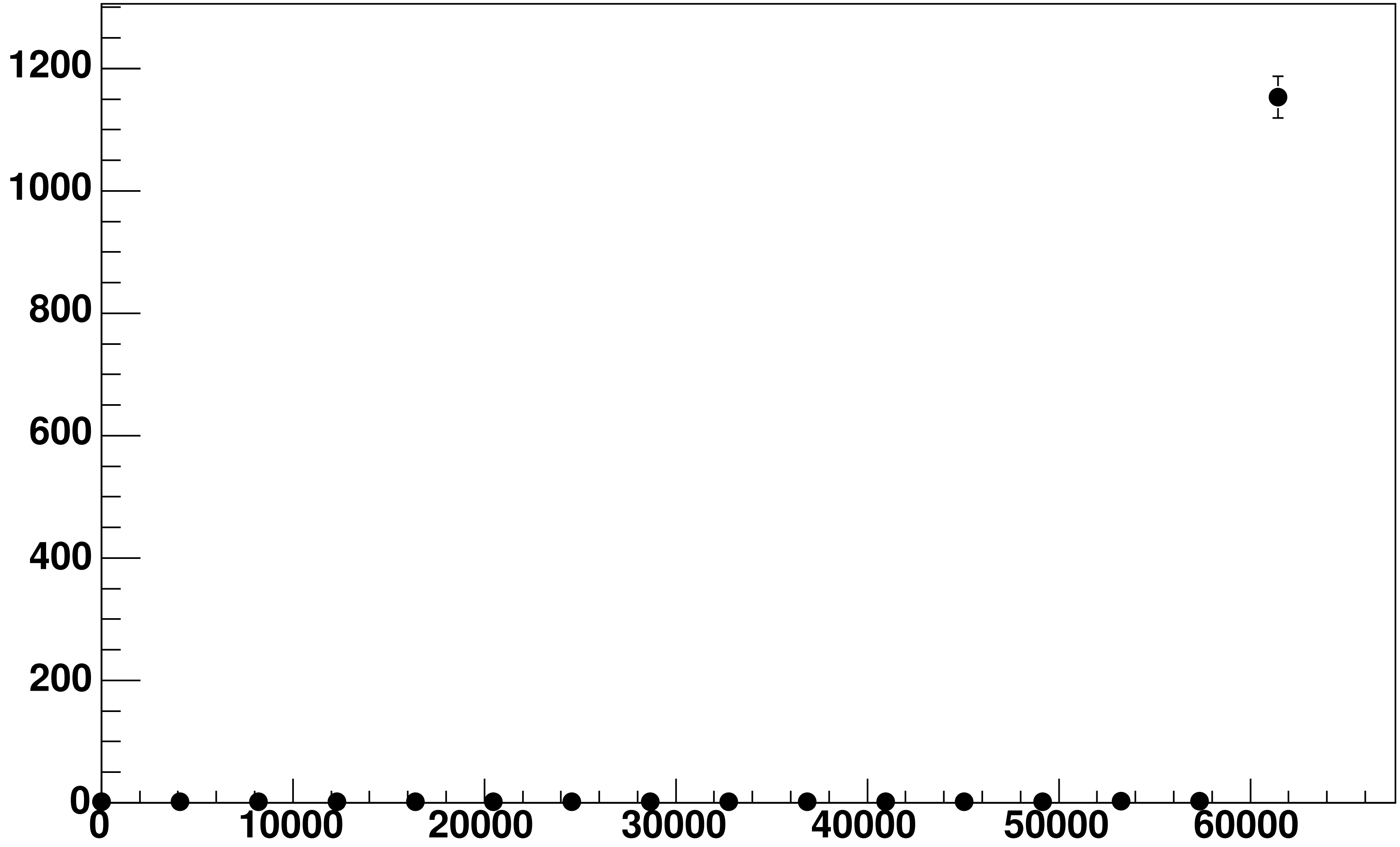
FE1, Chip 2, ADC mean vs DAC1
χ^2 / ndf 11.94 / 11
p0 -52.86 ± 0.0416
p1 -3.275e-06 ± 1.148e-06
-52.7
-52.8
-52.9
-53
-53.1
0
10000
20000
30000
40000
50000
60000

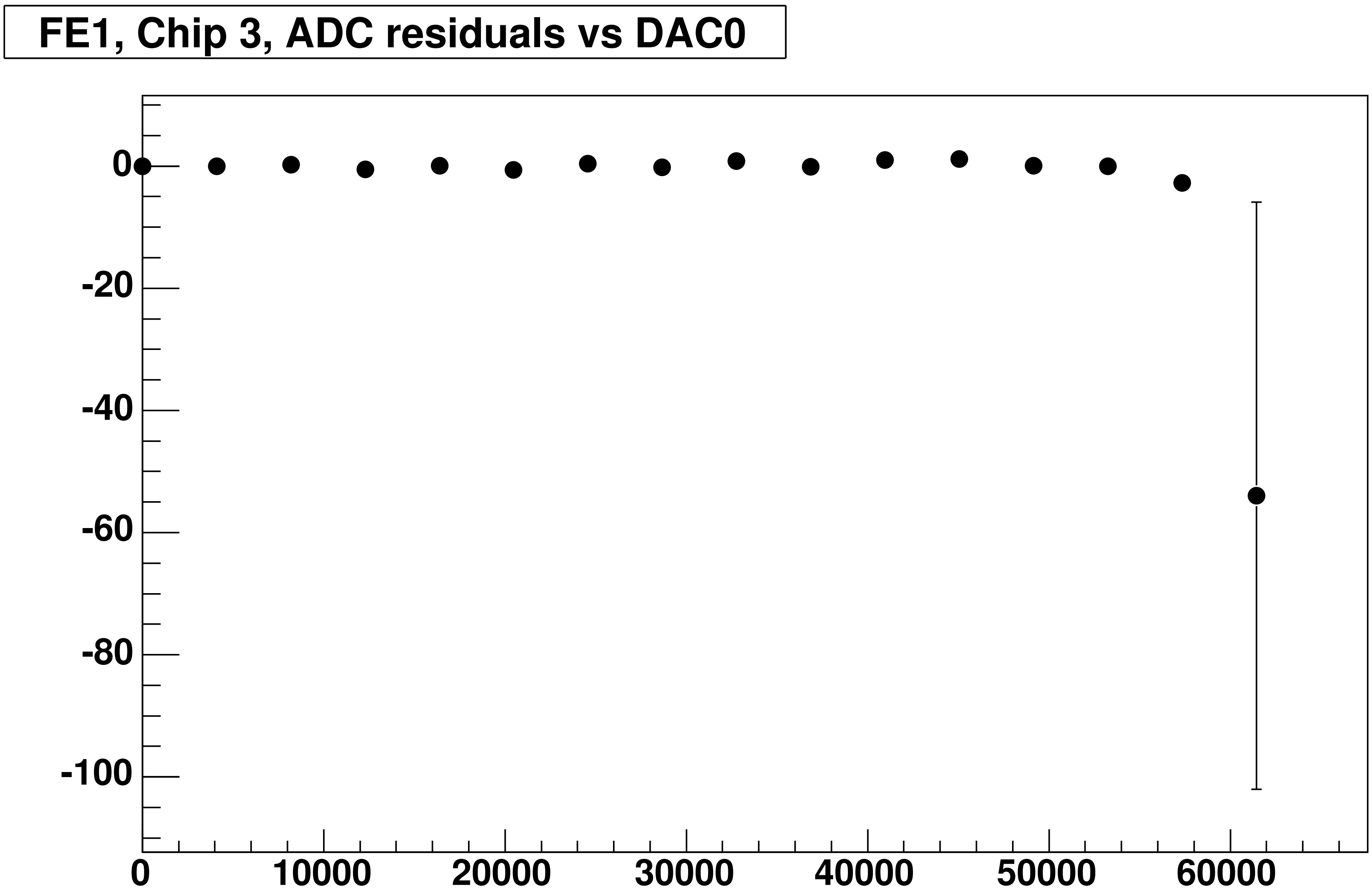

FE1, Chip 2, ADC noise vs DAC1
1.62
1.6
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
0
10000
20000
30000
40000
50000
60000

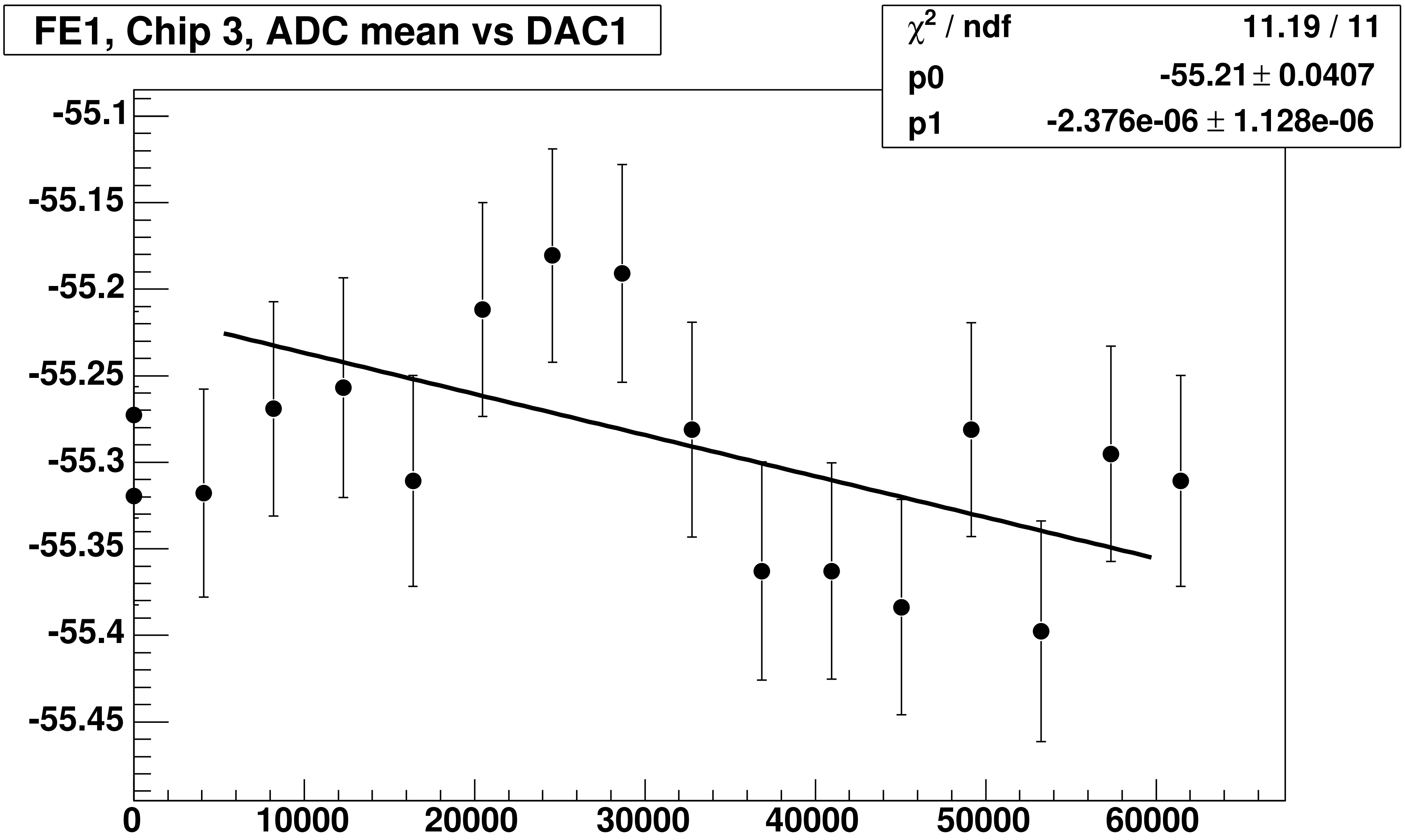

FE1, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

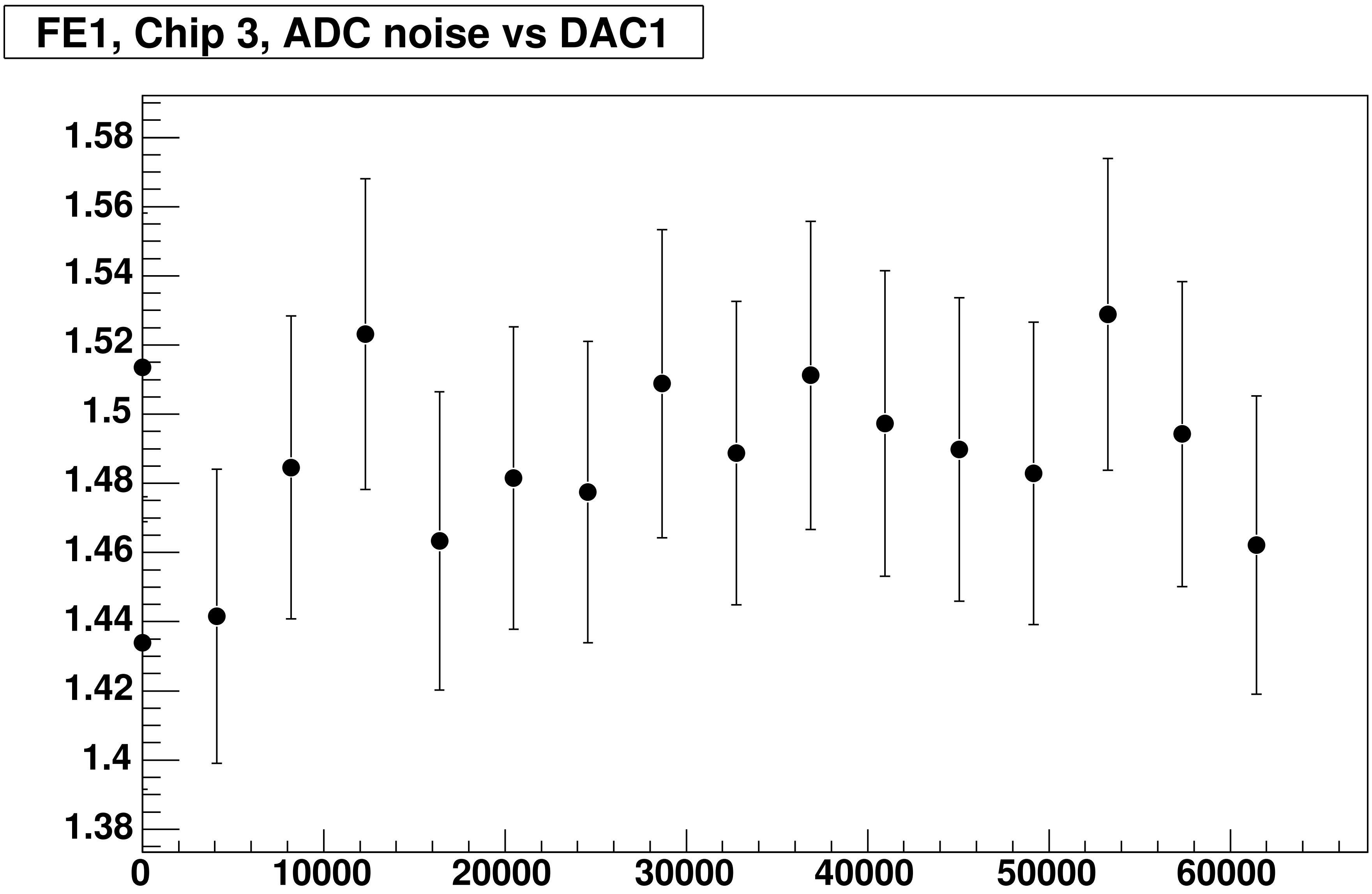

FE1, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1471 / 11
p0 -56.86 ± 0.04211
p1 0.4516 ± 1.354e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

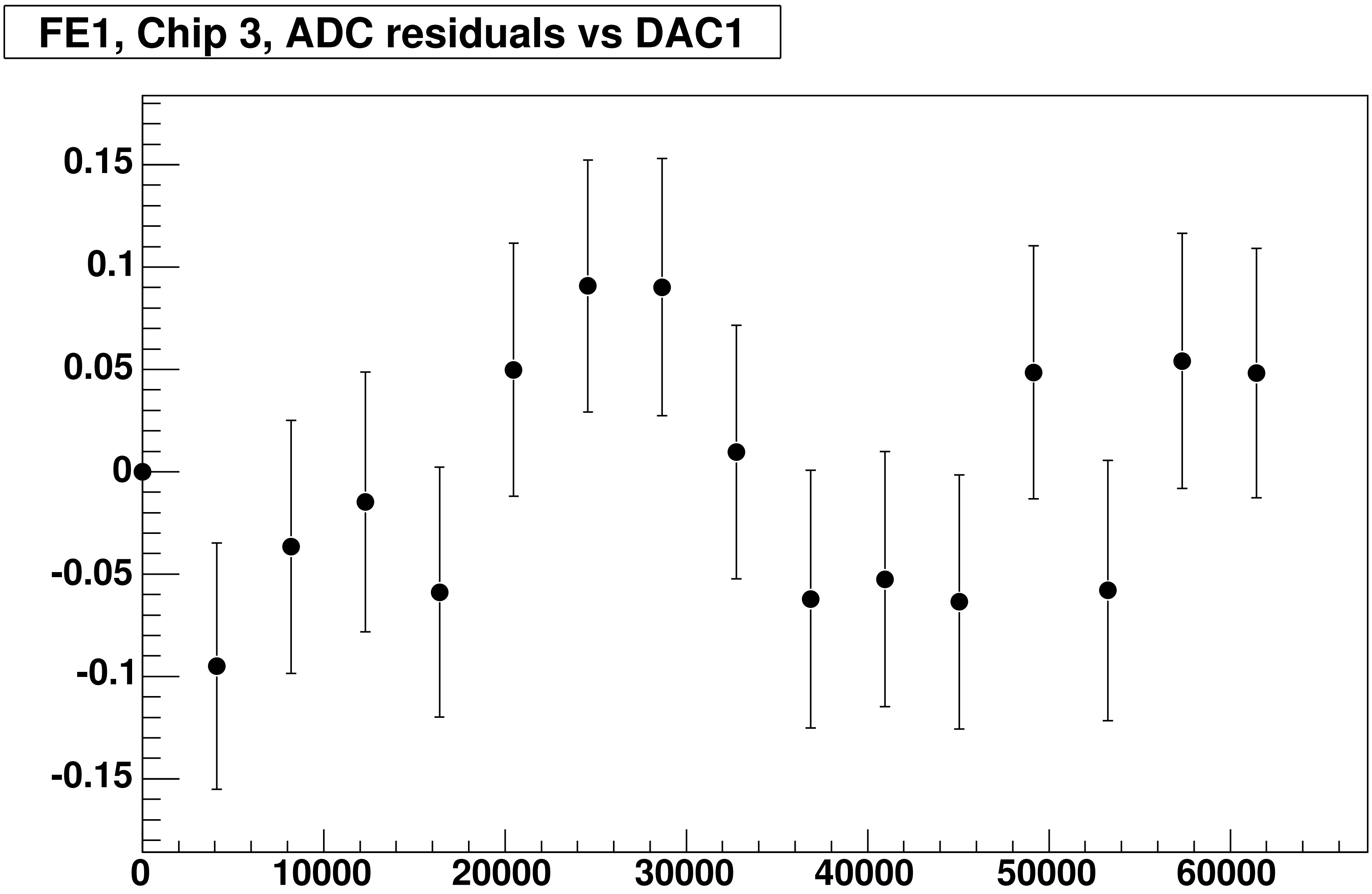
FE1, Chip 3, ADC noise vs DAC0



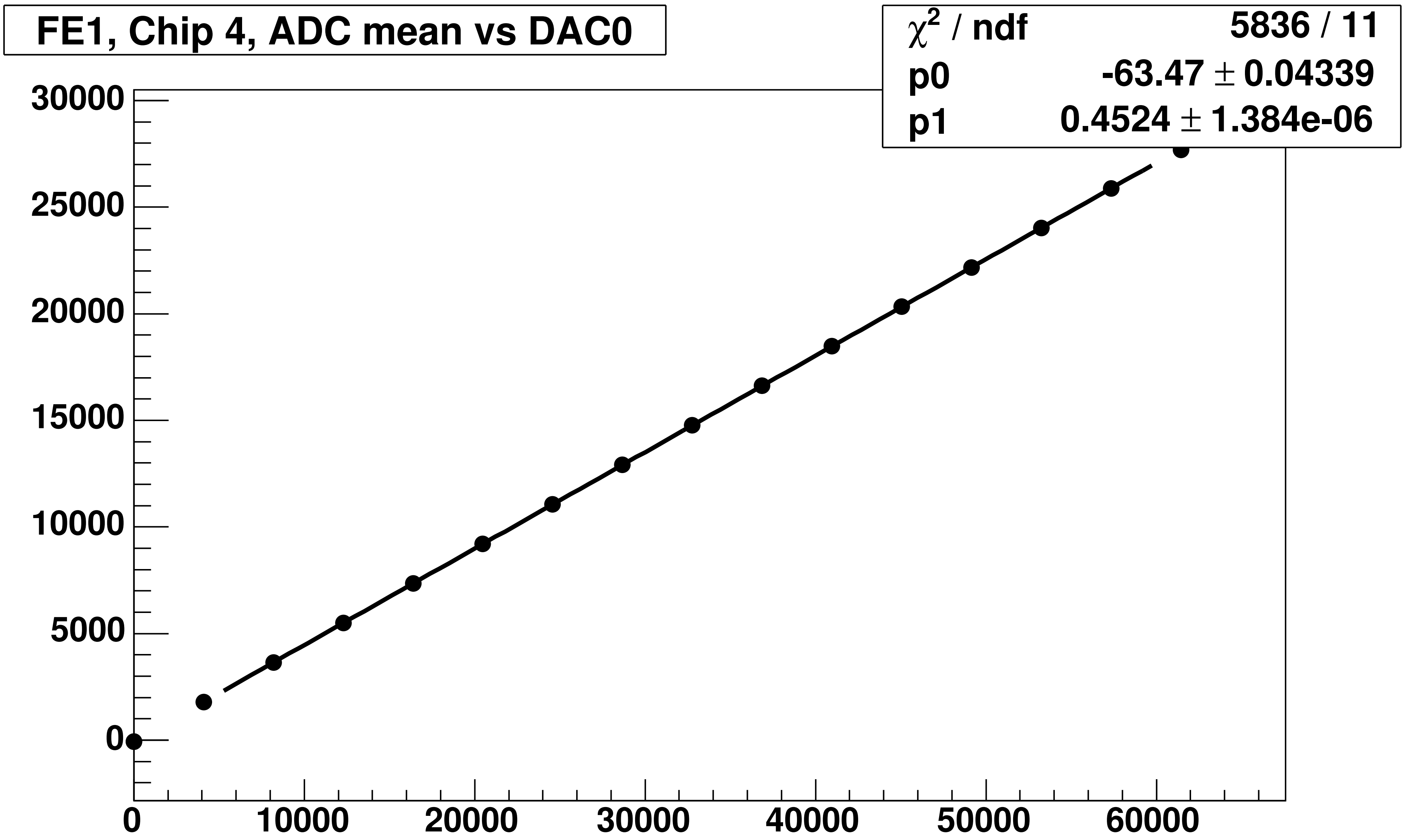

FE1, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE1, Chip 3, ADC mean vs DAC1
χ^2 / ndf 11.19 / 11
p0 -55.21 ± 0.0407
p1 -2.376e-06 ± 1.128e-06
-55.1
-55.15
-55.2
-55.25
-55.3
-55.35
-55.4
-55.45
0
10000
20000
30000
40000
50000
60000

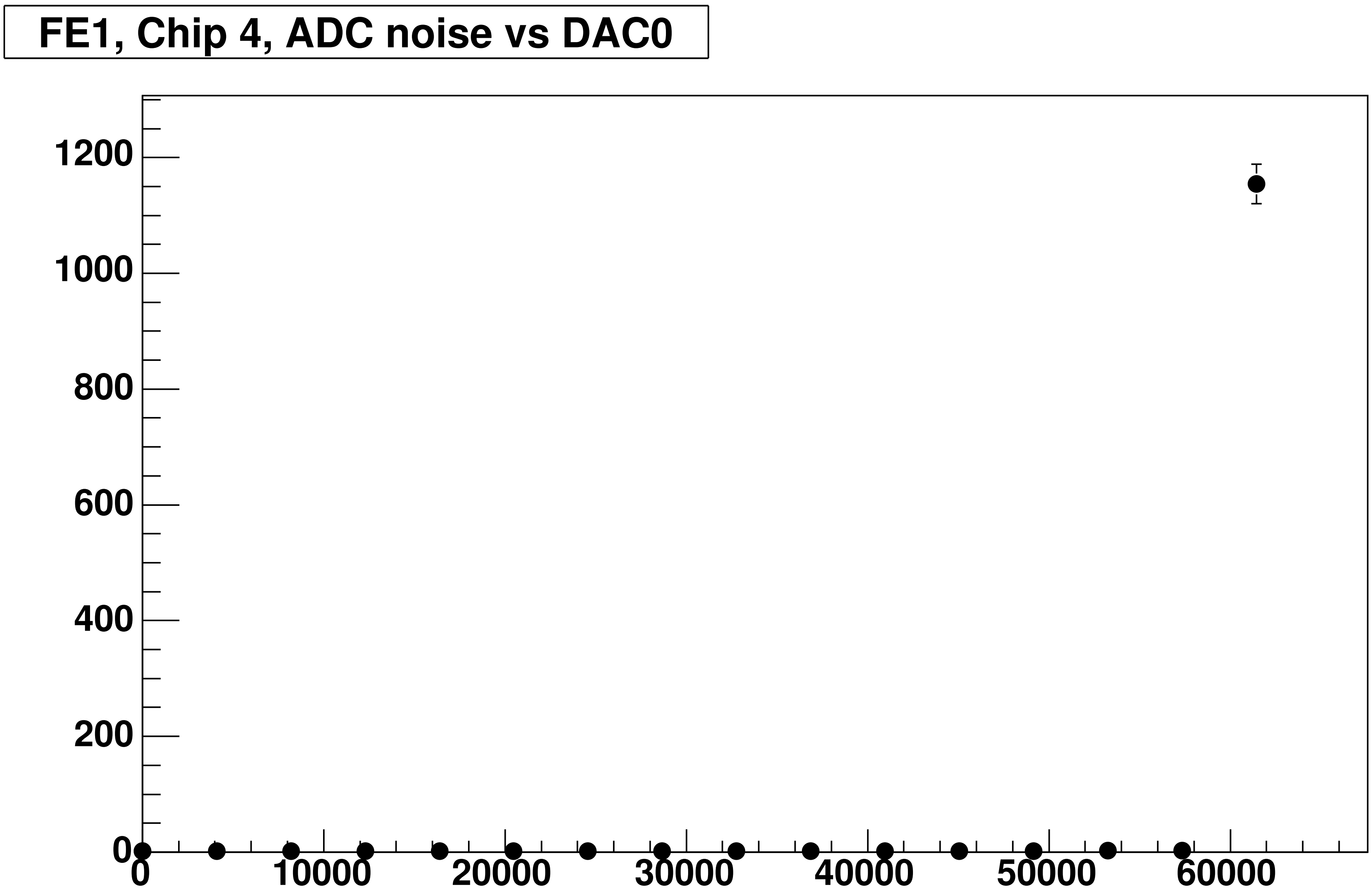

FE1, Chip 3, ADC noise vs DAC1
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
0
10000
20000
30000
40000
50000
60000



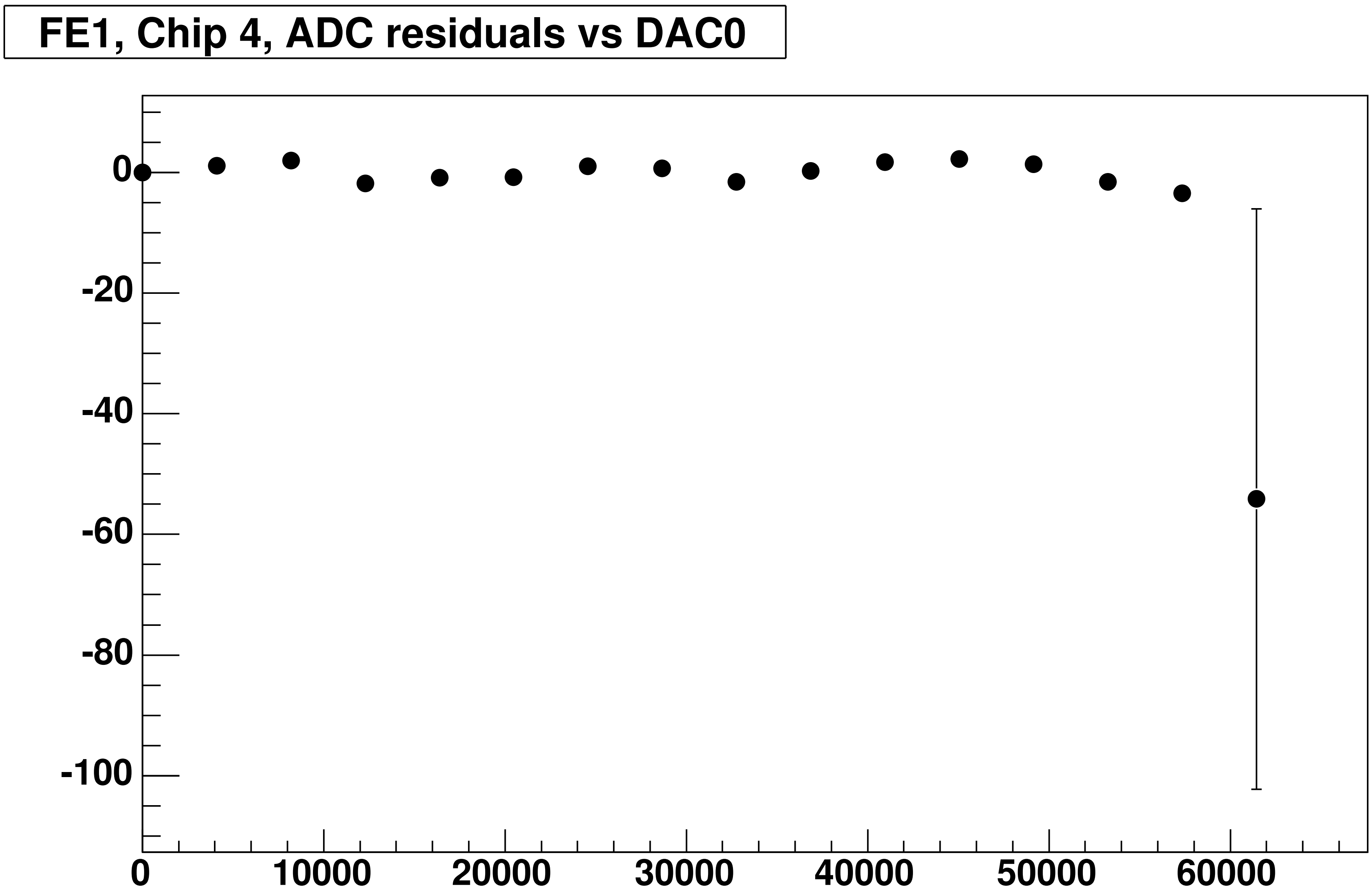
FE1, Chip 3, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

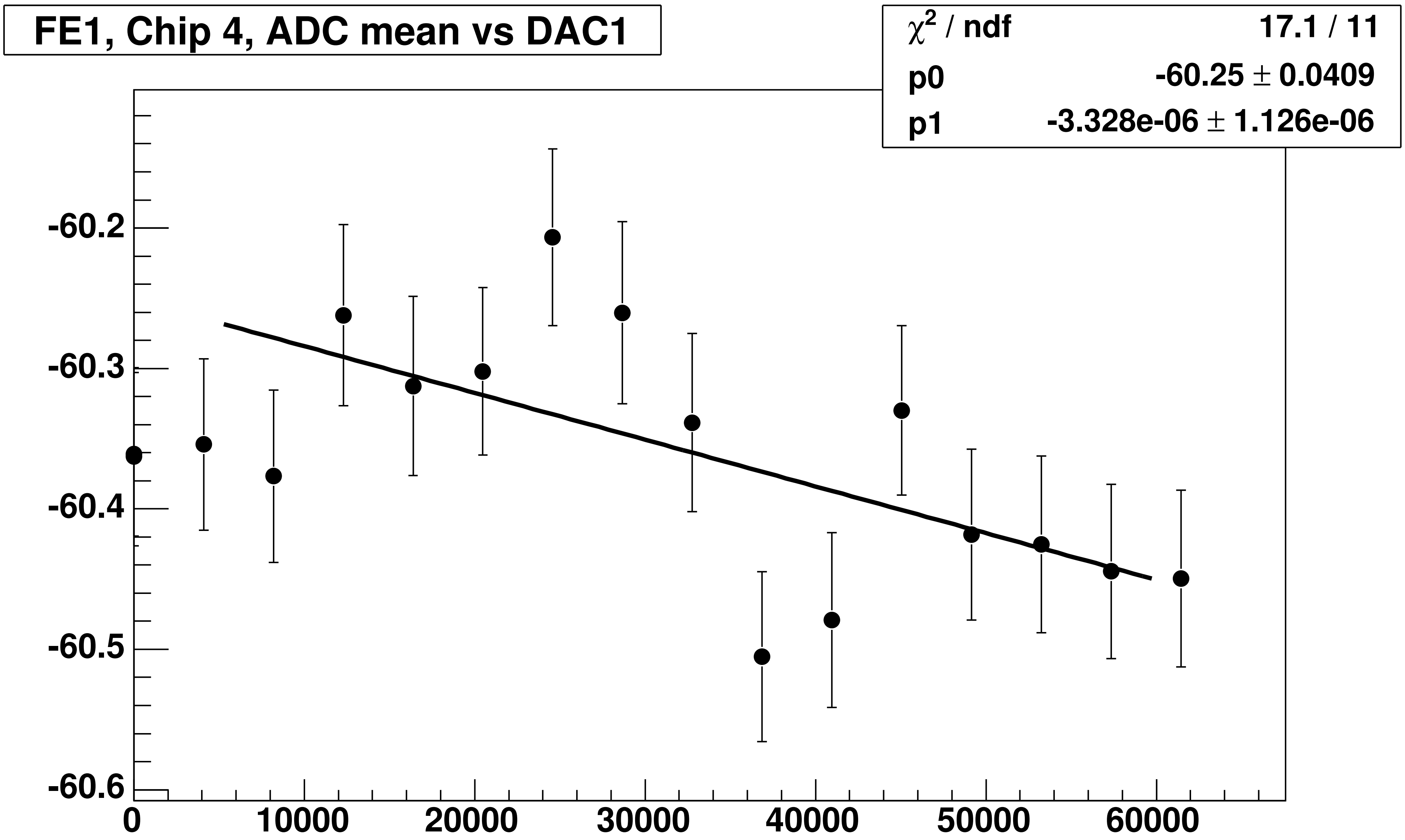


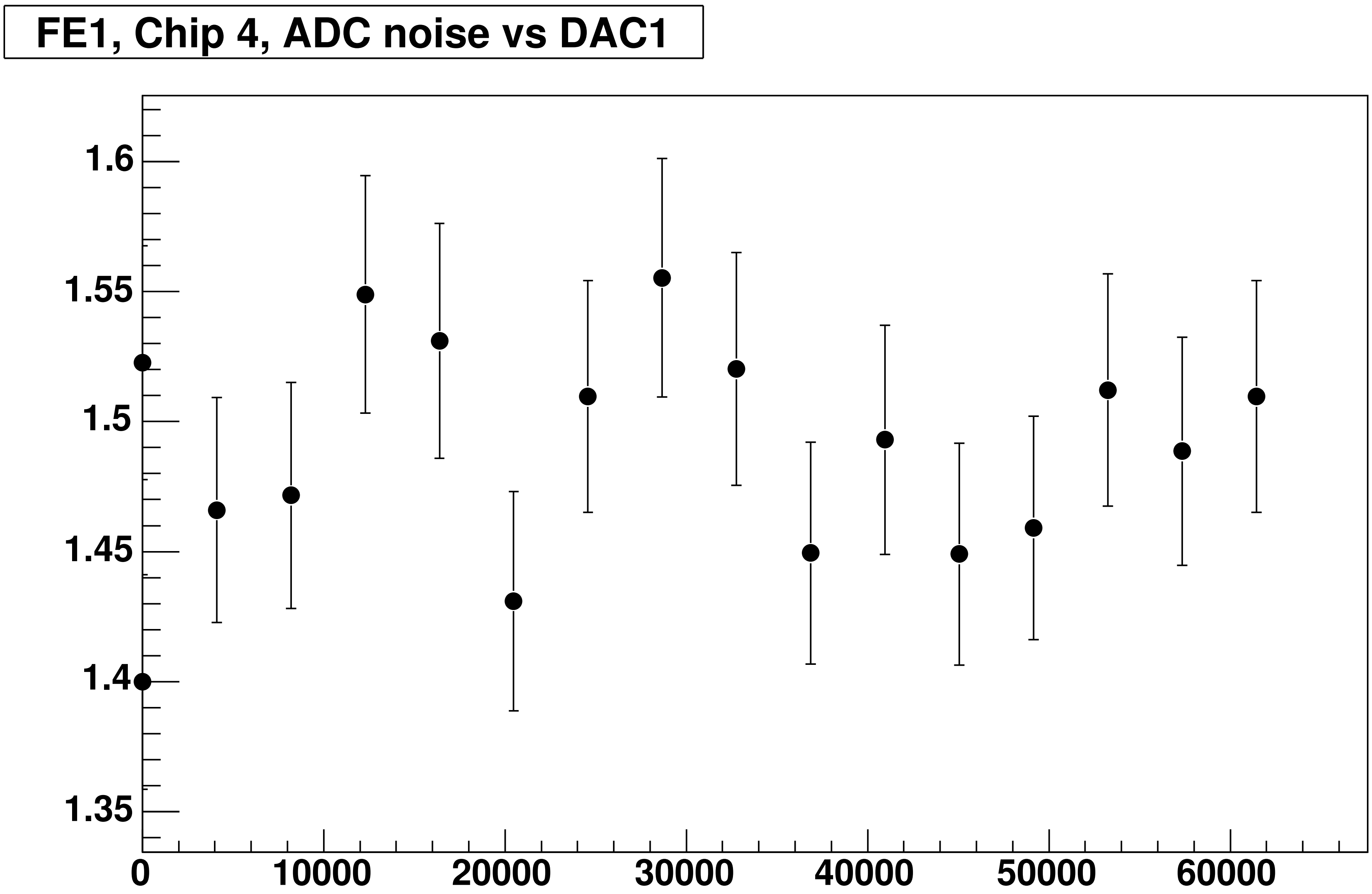
FE1, Chip 4, ADC mean vs DAC0
χ^2 / ndf 5836 / 11
p0 -63.47 ± 0.04339
p1 0.4524 ± 1.384e-06
30000
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

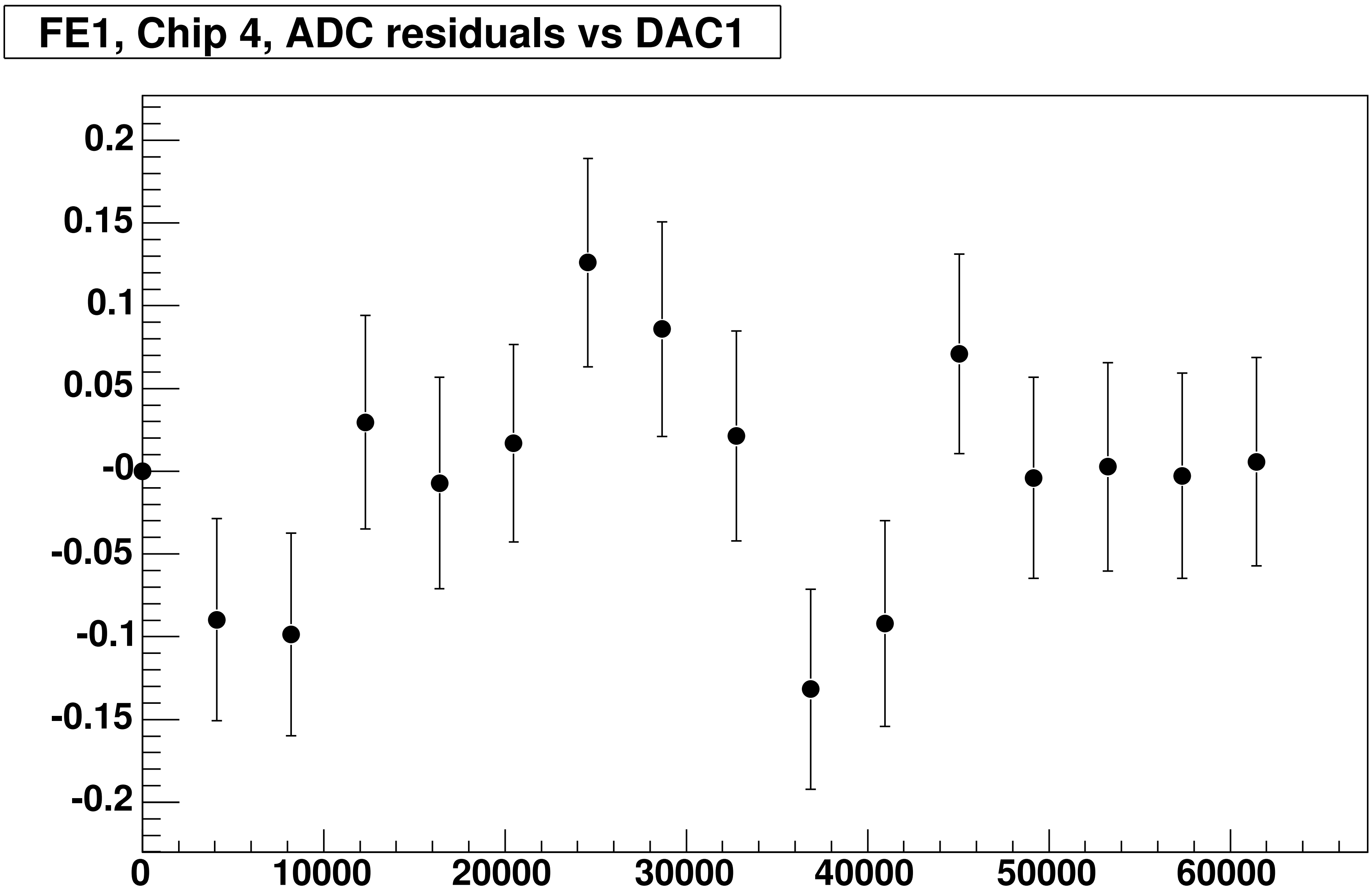


FE1, Chip 4, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

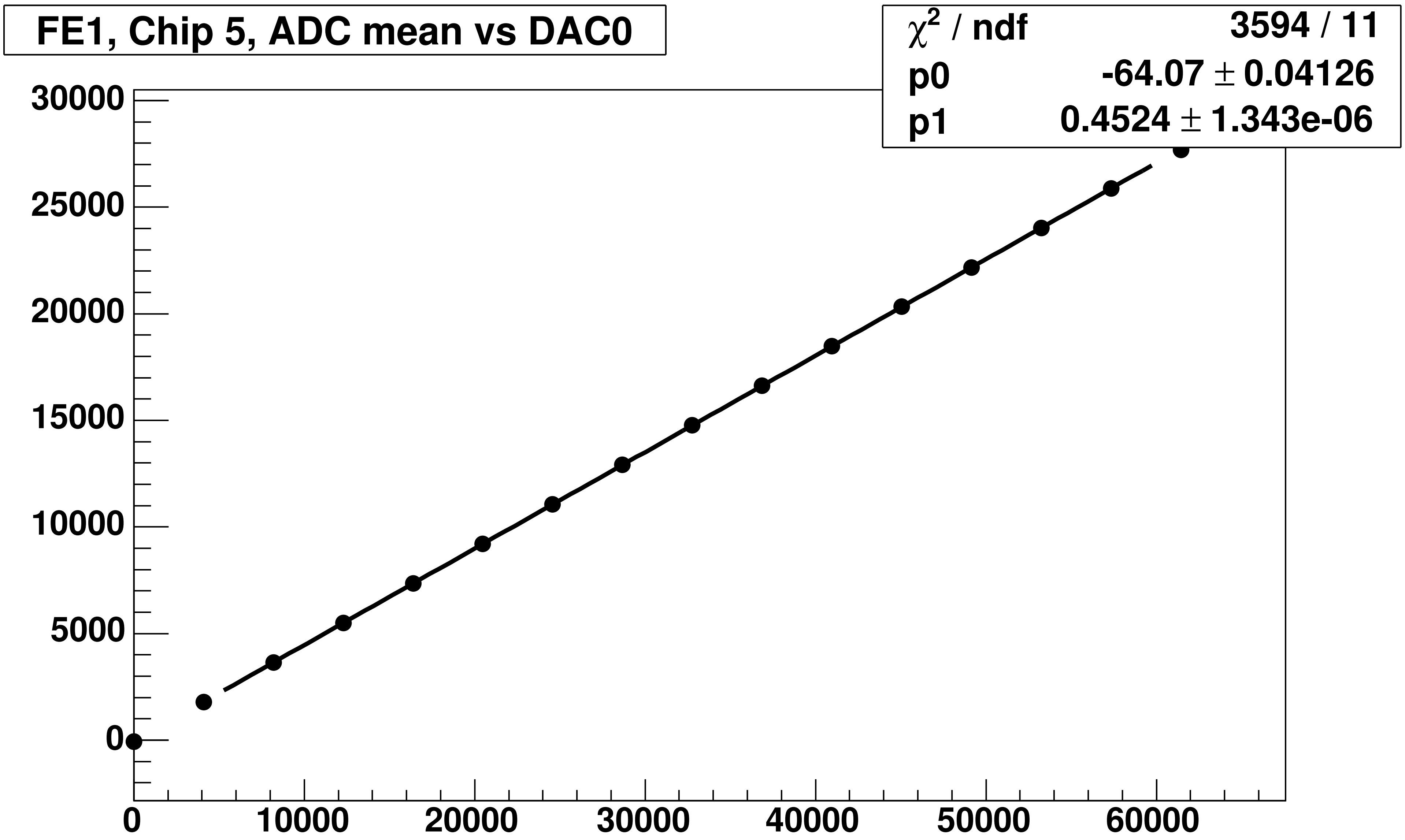

FE1, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE1, Chip 4, ADC mean vs DAC1
χ^2 / ndf 17.1 / 11
p0 -60.25 ± 0.0409
p1 -3.328e-06 ± 1.126e-06
-60.2
-60.3
-60.4
-60.5
-60.6
0
10000
20000
30000
40000
50000
60000


FE1, 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

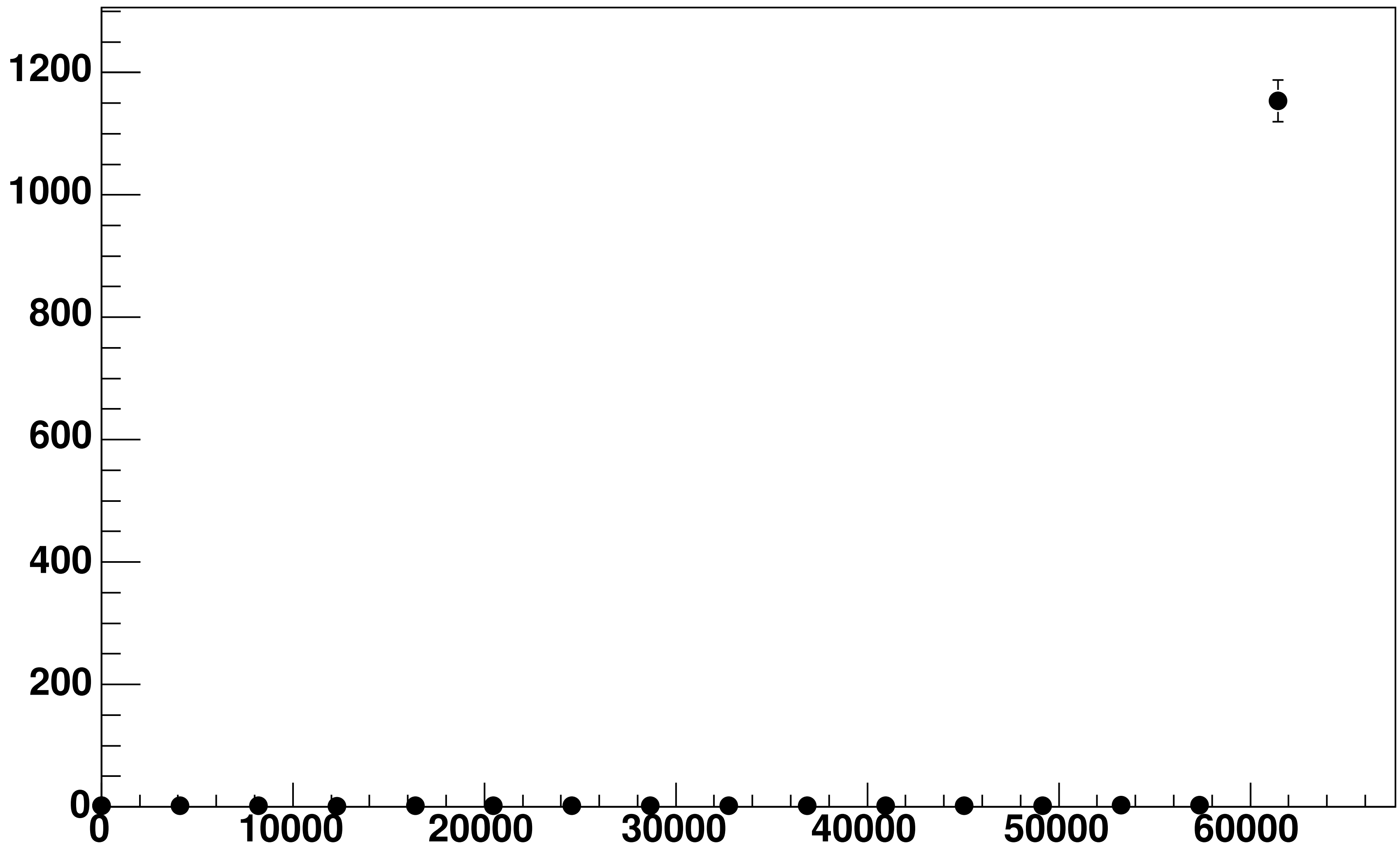


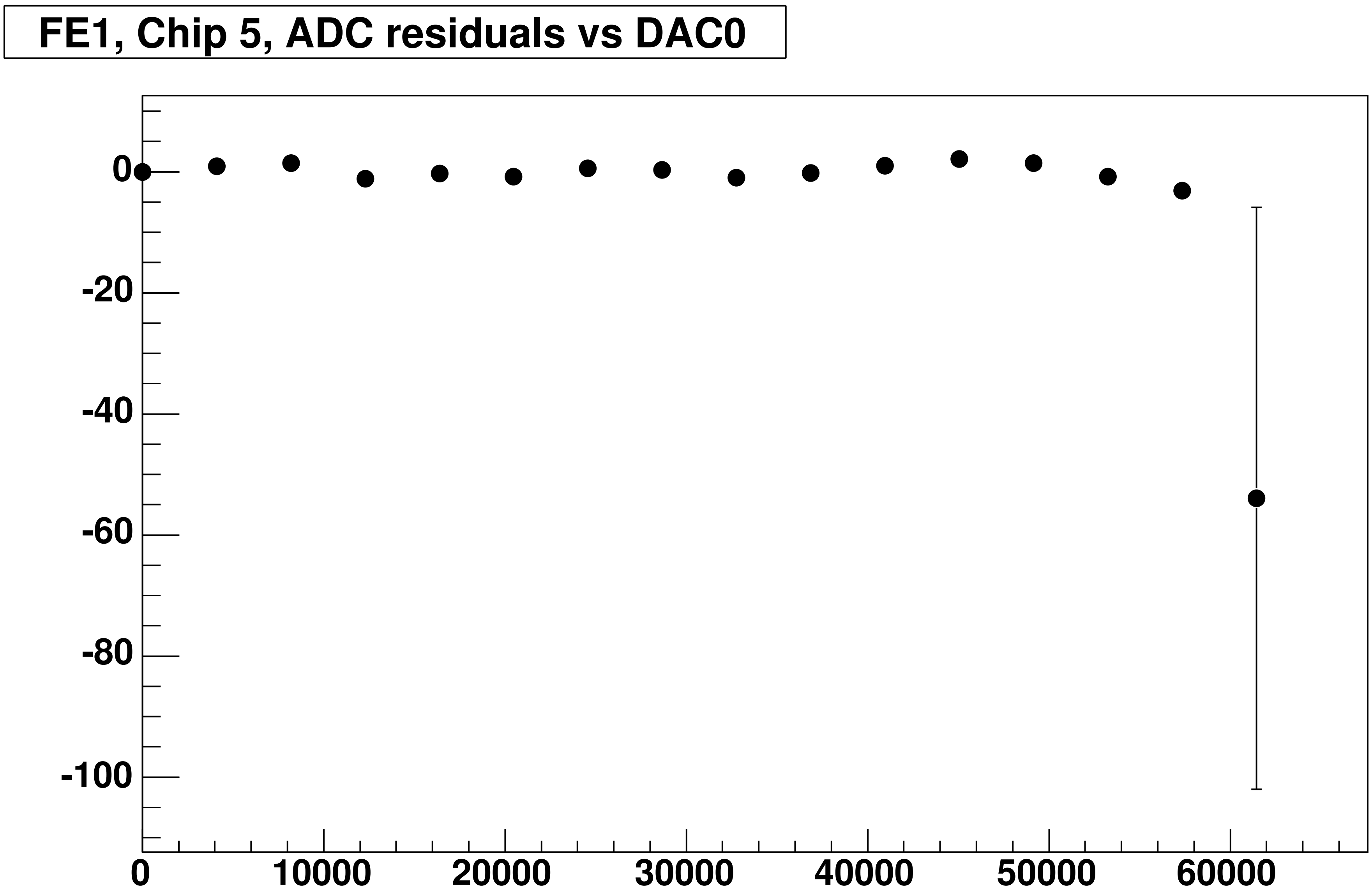
FE1, Chip 4, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



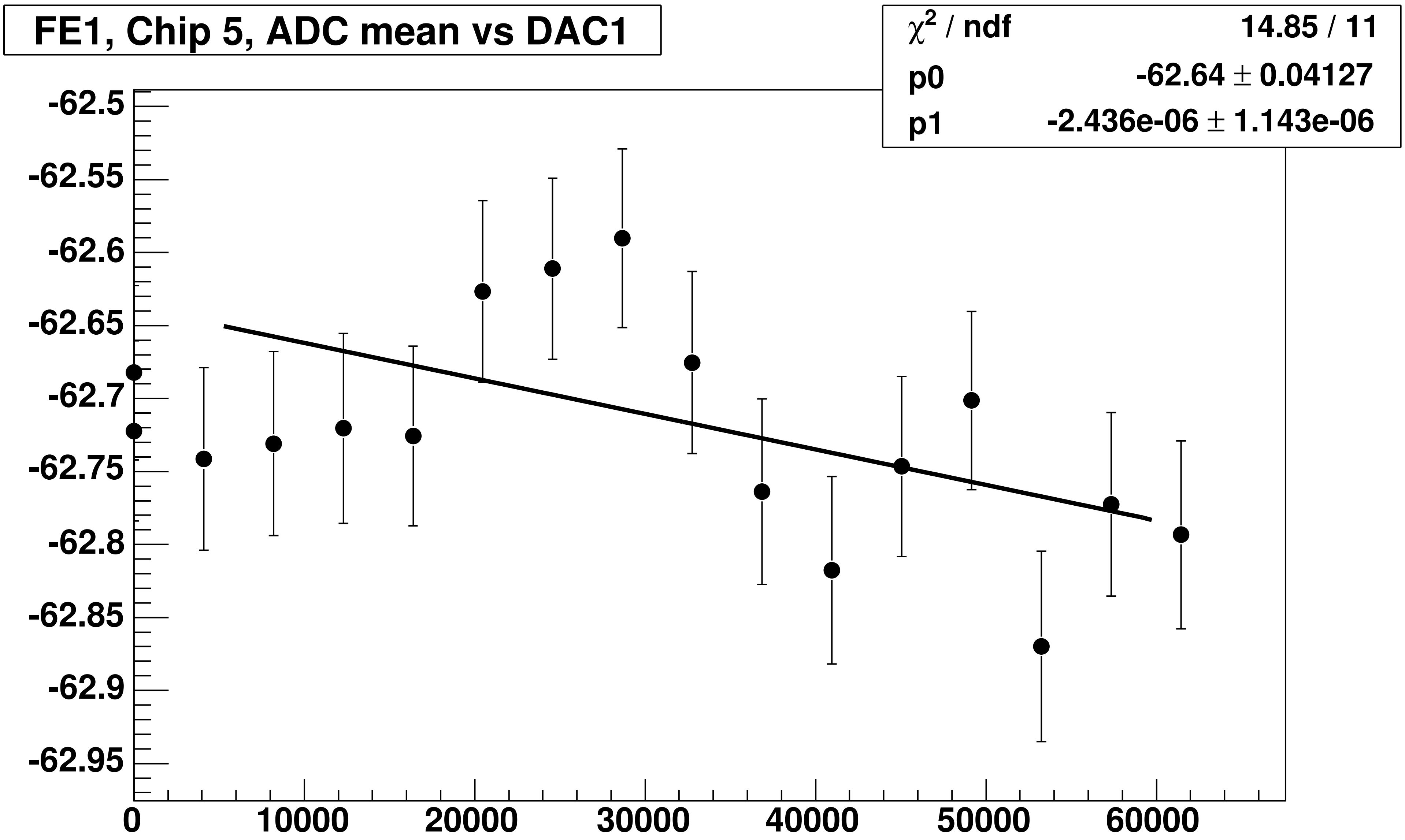
FE1, Chip 5, ADC mean vs DAC0
χ^2 / ndf 3594 / 11
p0 -64.07 ± 0.04126
p1 0.4524 ± 1.343e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

FE1, Chip 5, ADC noise vs DAC0

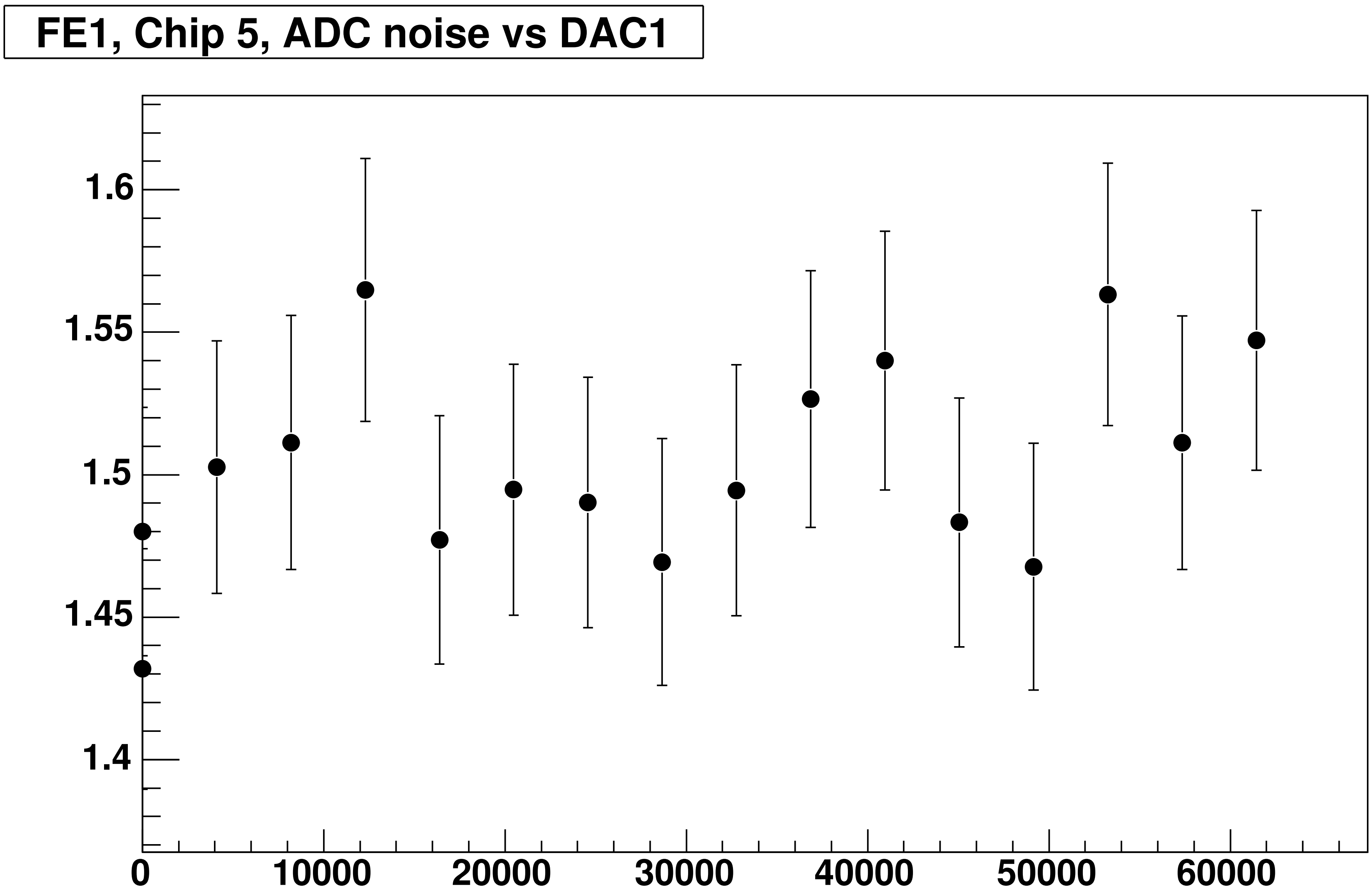




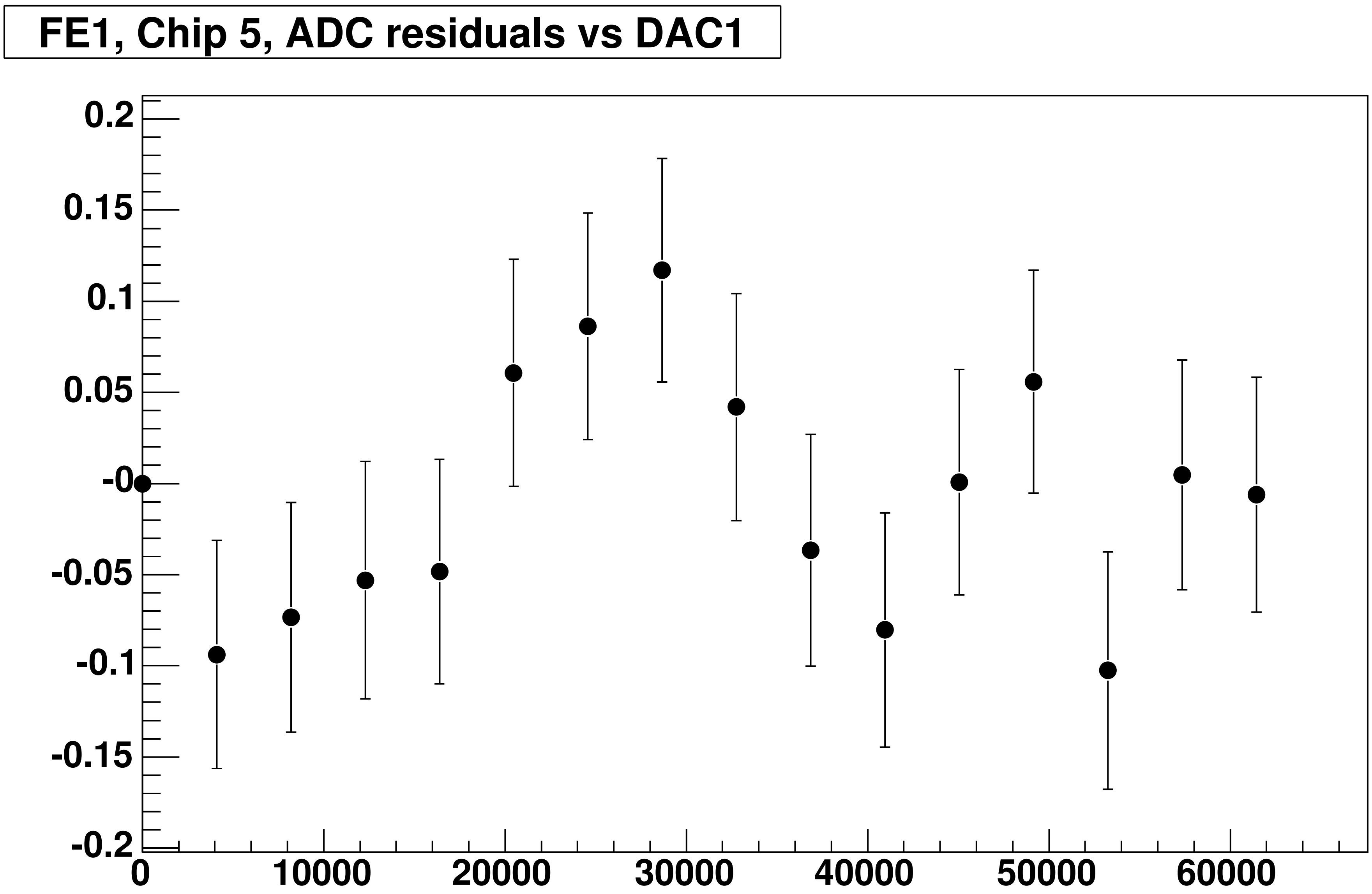
FE1, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



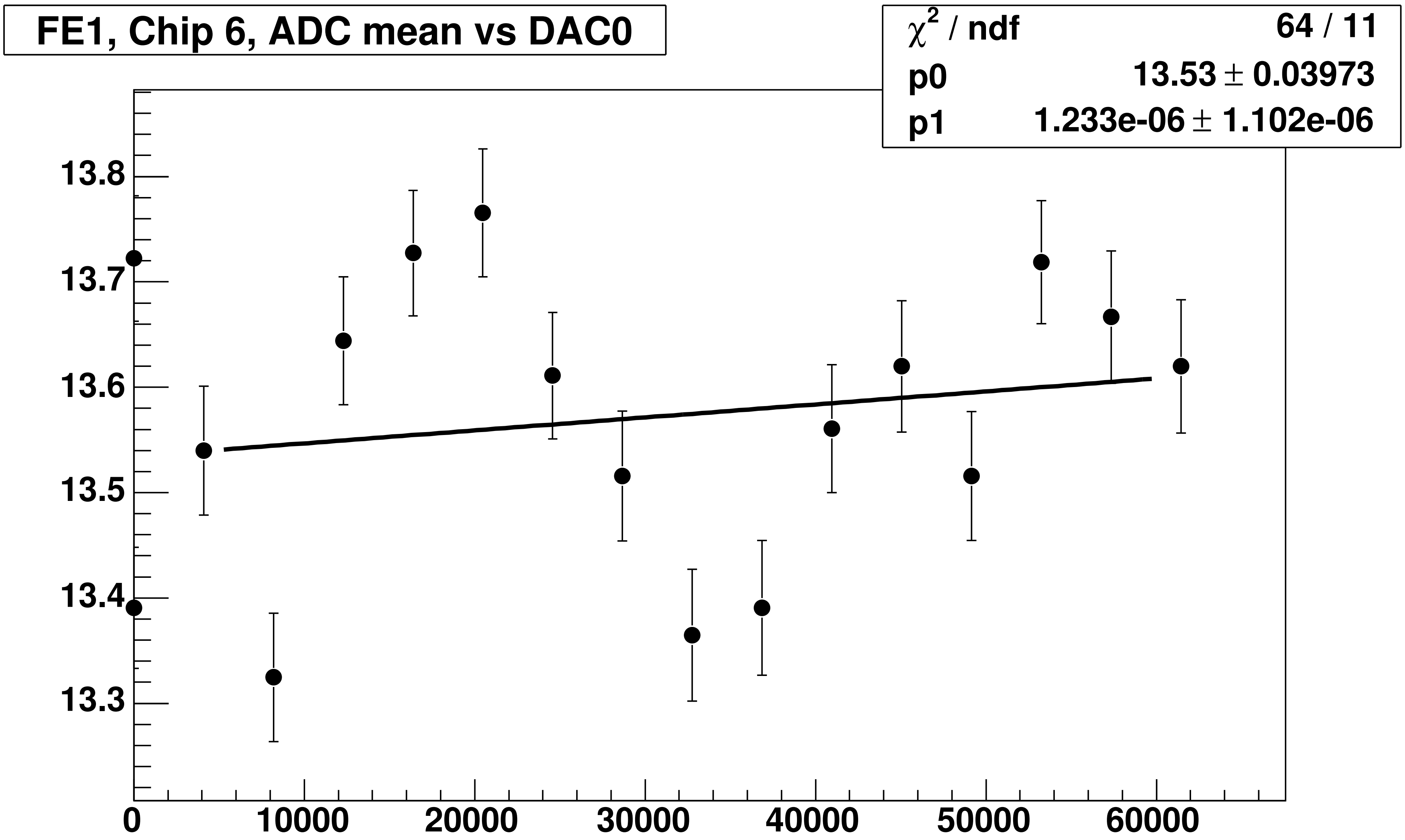
FE1, Chip 5, ADC mean vs DAC1
χ^2 / ndf 14.85 / 11
p0 -62.64 ± 0.04127
p1 -2.436e-06 ± 1.143e-06
-62.5
-62.55
-62.6
-62.65
-62.7
-62.75
-62.8
-62.85
-62.9
-62.95
0
10000
20000
30000
40000
50000
60000

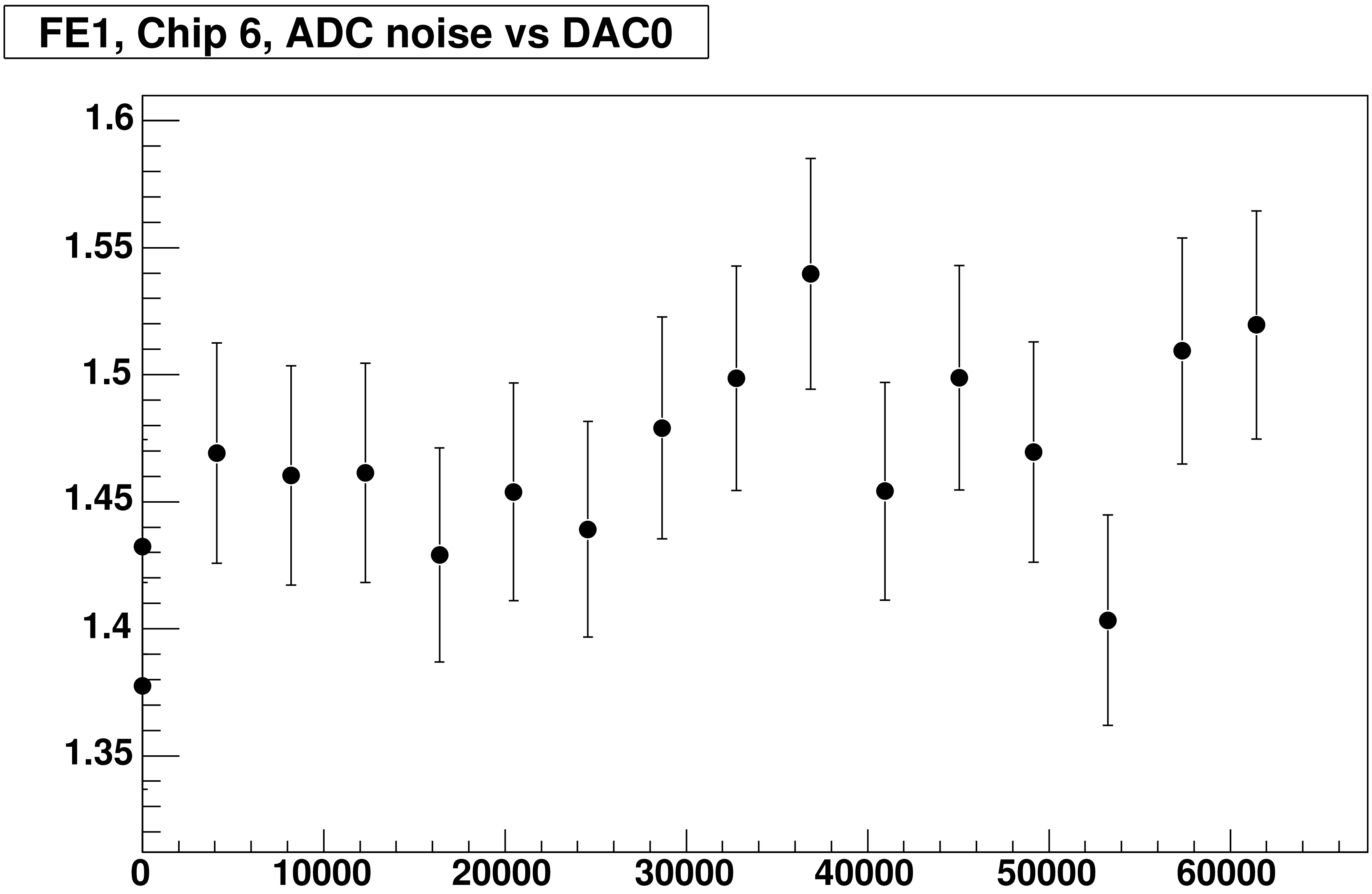


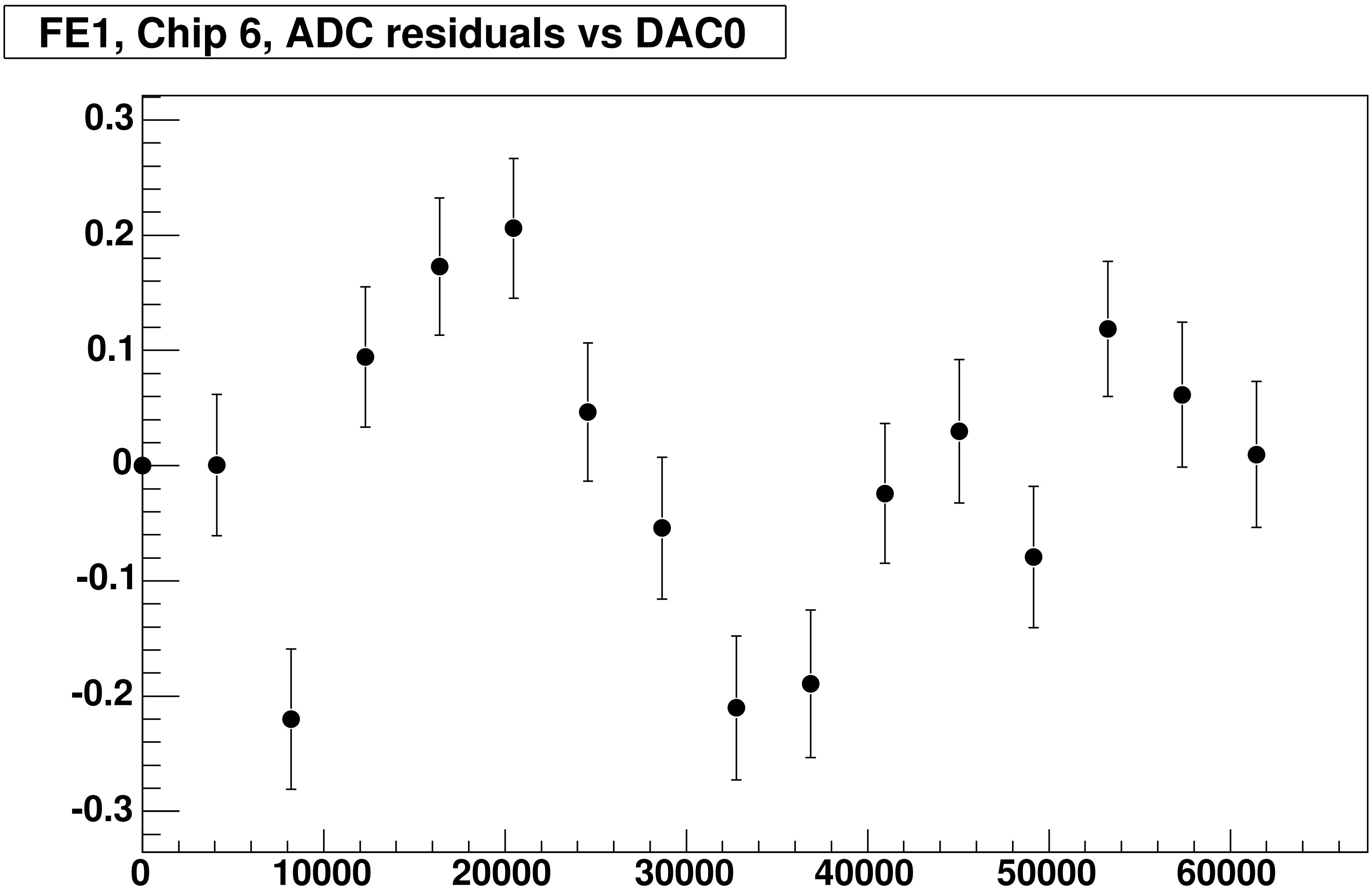
FE1, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

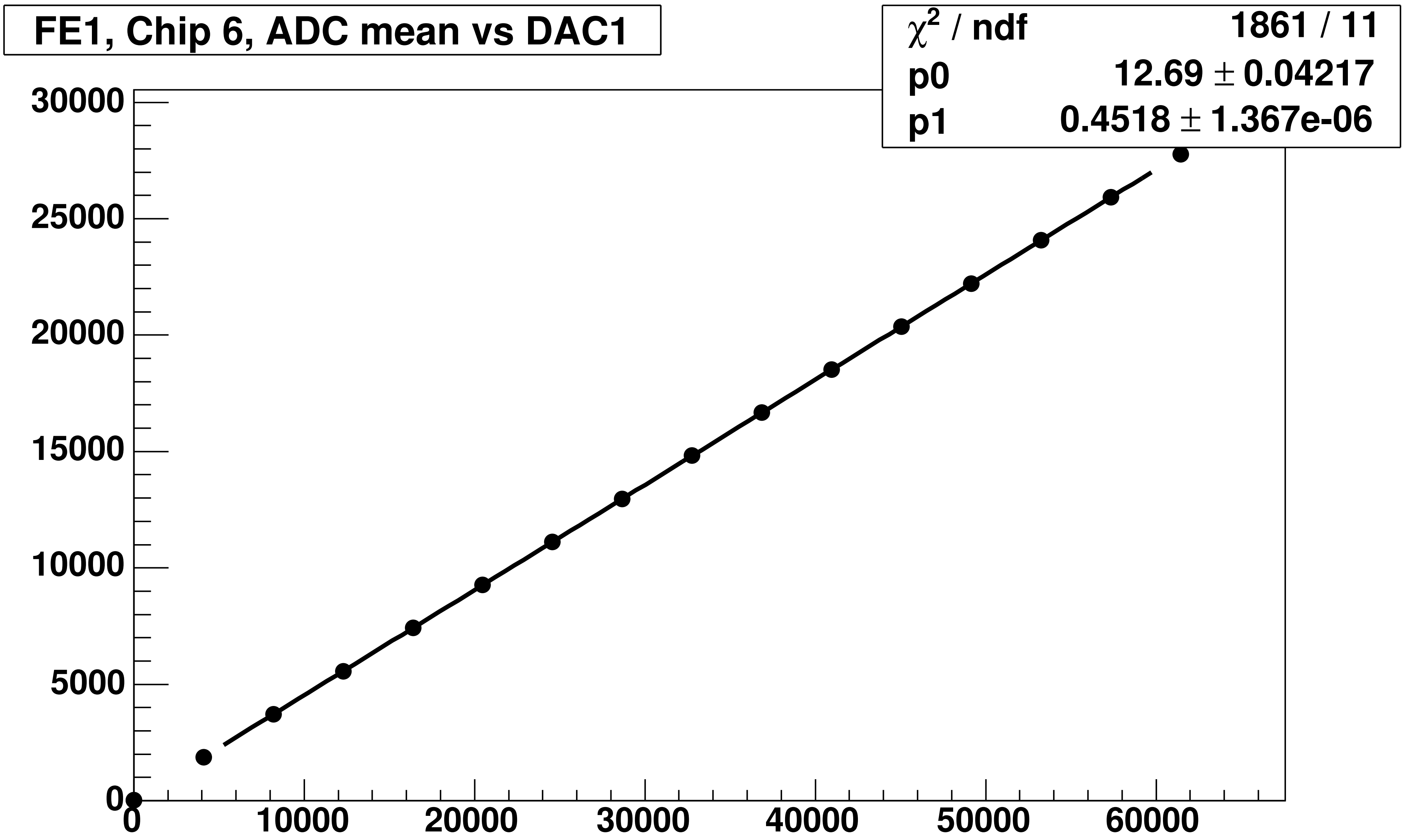


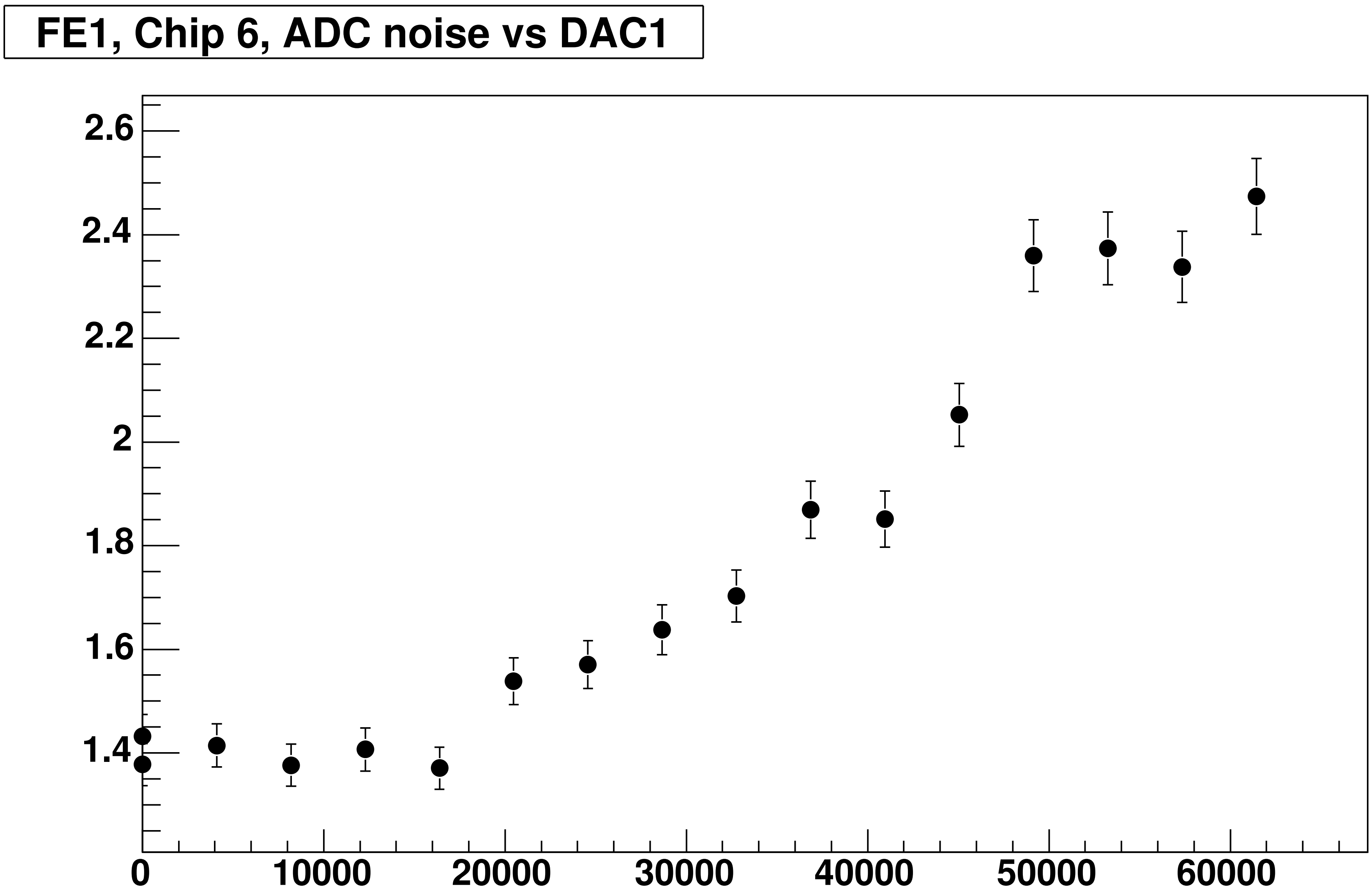
FE1, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE1, Chip 6, ADC mean vs DAC0
χ² / ndf 64 / 11
p0 13.53 ± 0.03973
p1 1.233e-06 ± 1.102e-06
13.3
13.4
13.5
13.6
13.7
13.8
0
10000
20000
30000
40000
50000
60000

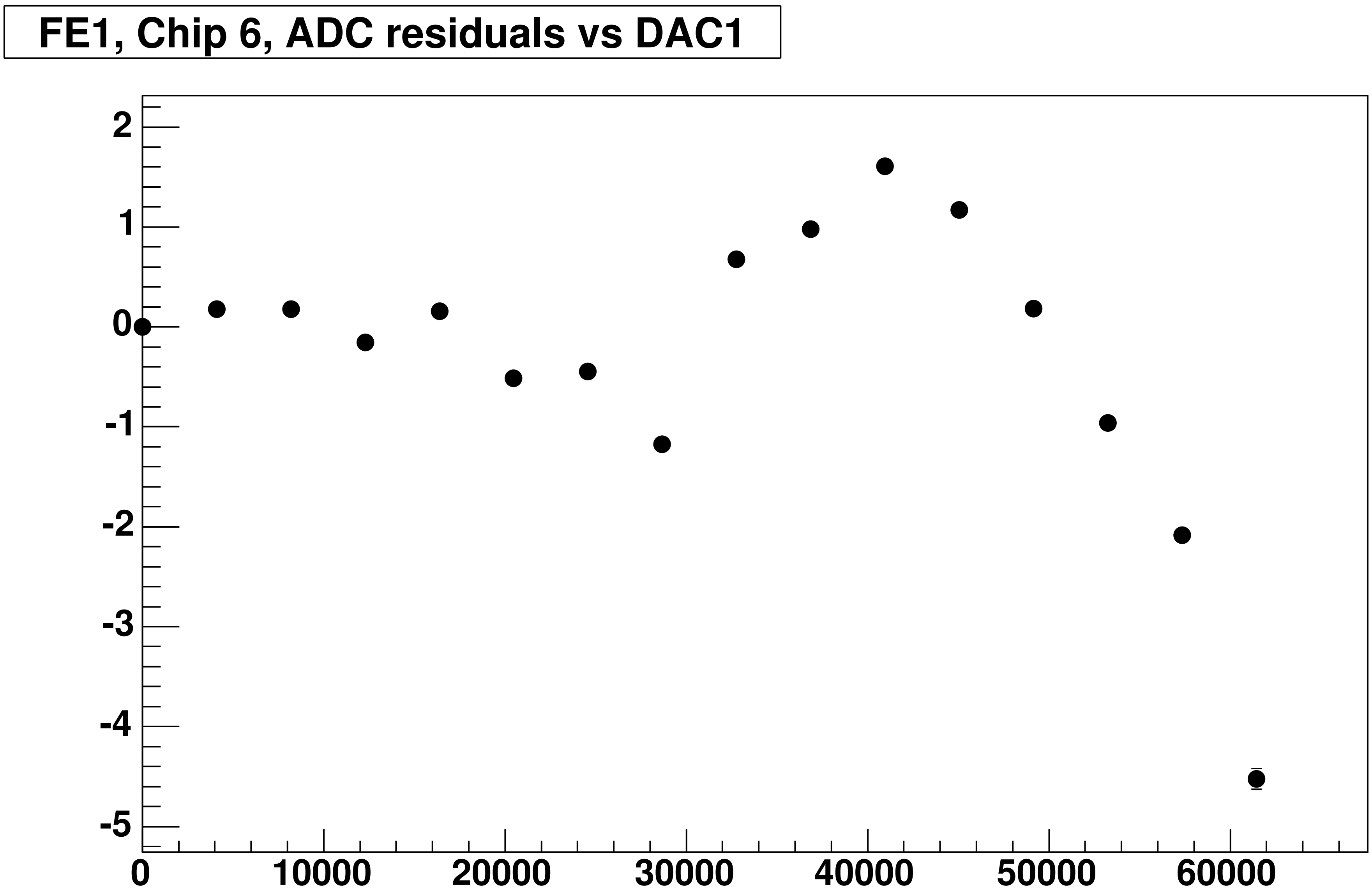

FE1, Chip 6, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE1, 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

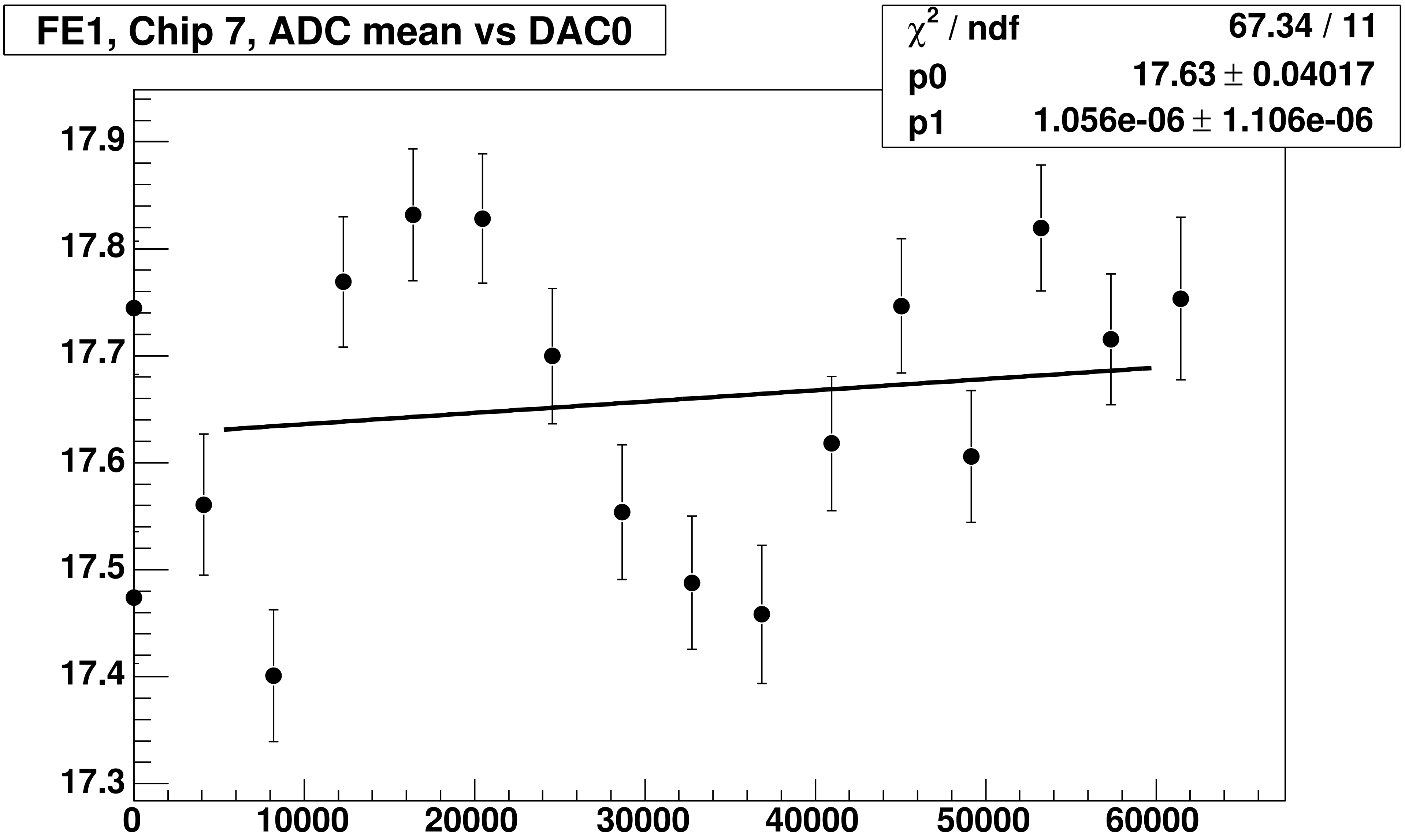

FE1, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1861 / 11
p0 12.69 ± 0.04217
p1 0.4518 ± 1.367e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

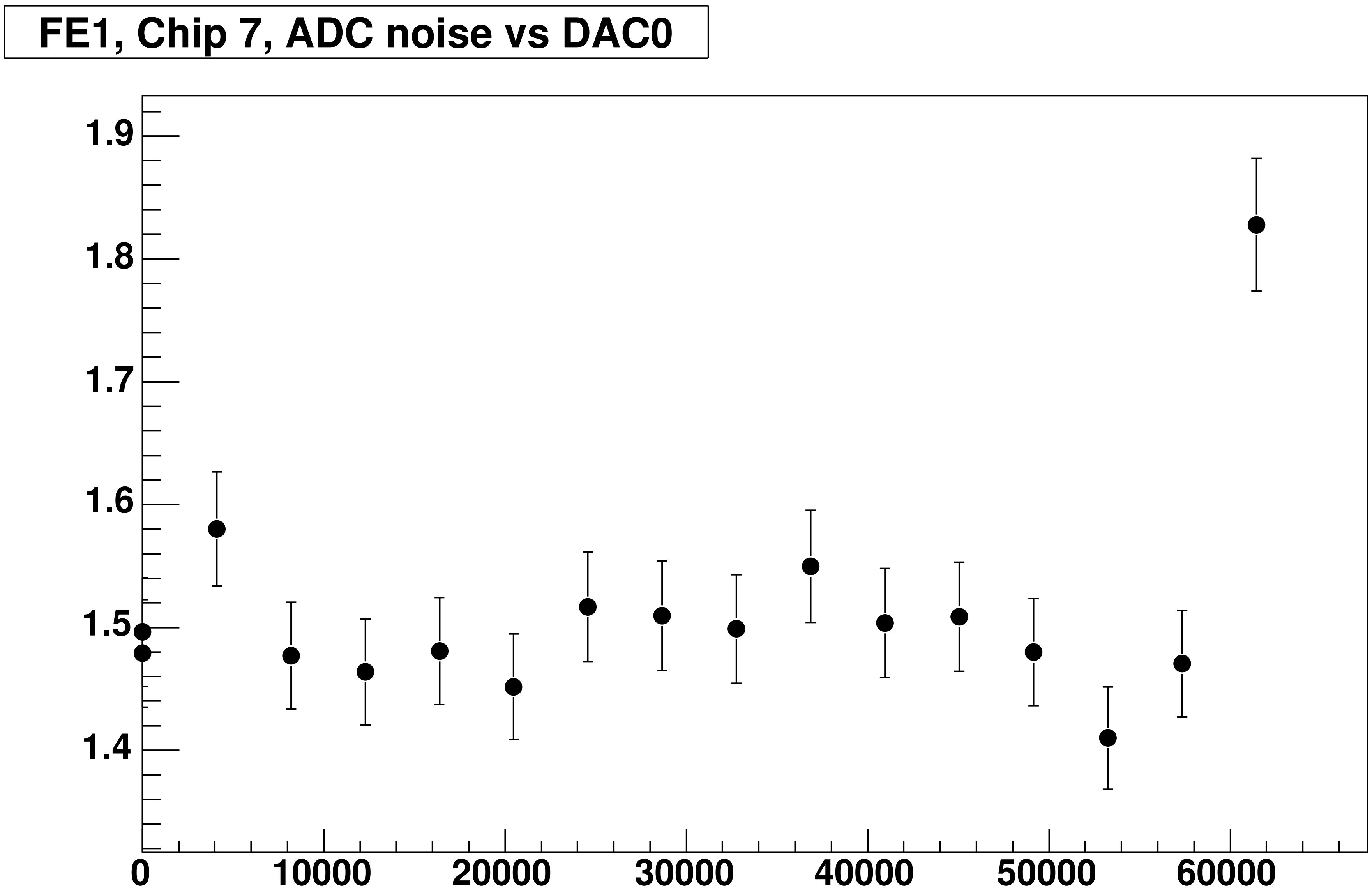


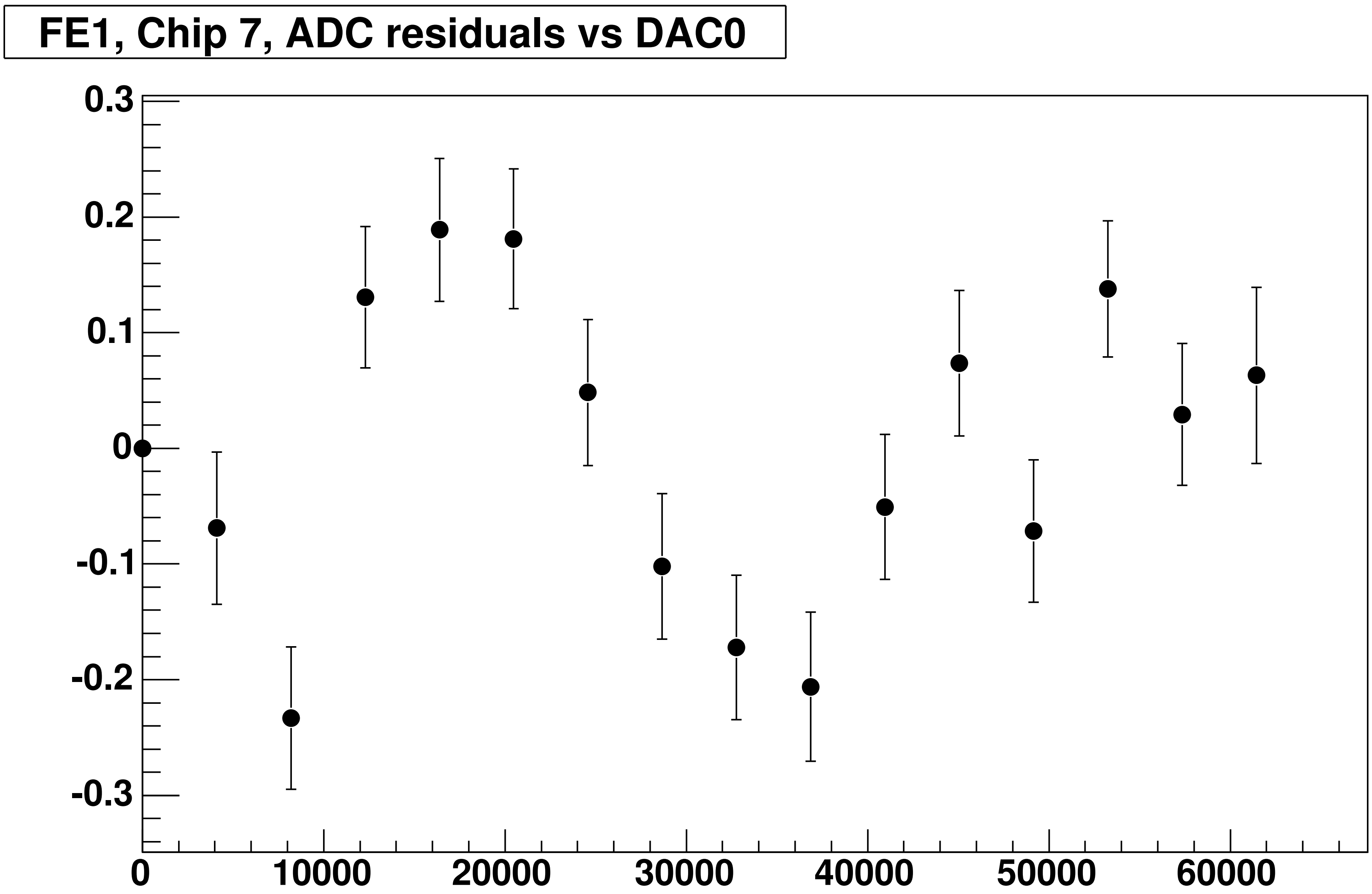
FE1, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



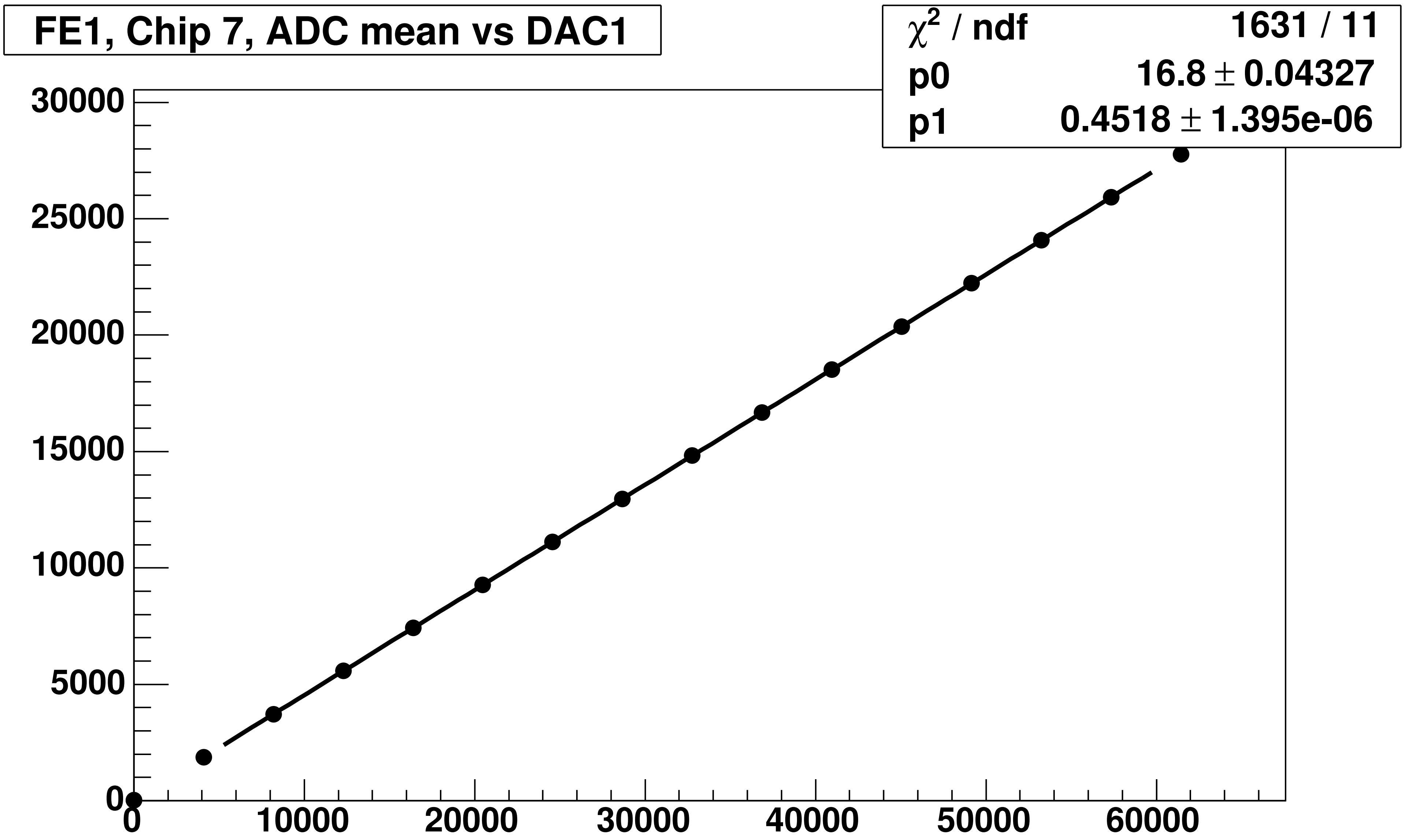
FE1, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE1, Chip 7, ADC mean vs DAC0
χ^2 / ndf 67.34 / 11
p0 17.63 ± 0.04017
p1 1.056e-06 ± 1.106e-06
17.3
17.4
17.5
17.6
17.7
17.8
17.9
0
10000
20000
30000
40000
50000
60000

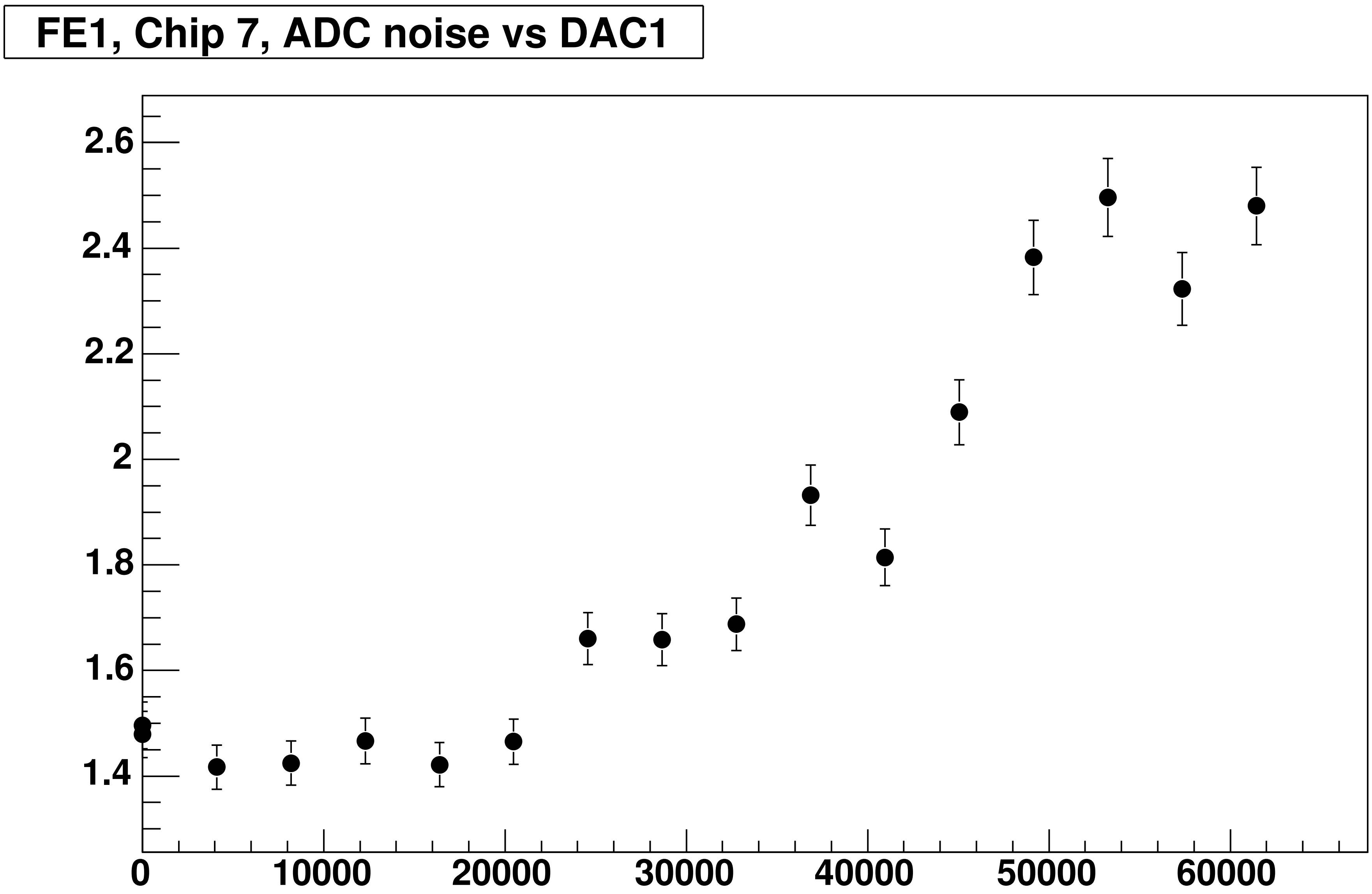

FE1, Chip 7, ADC noise vs DAC0
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

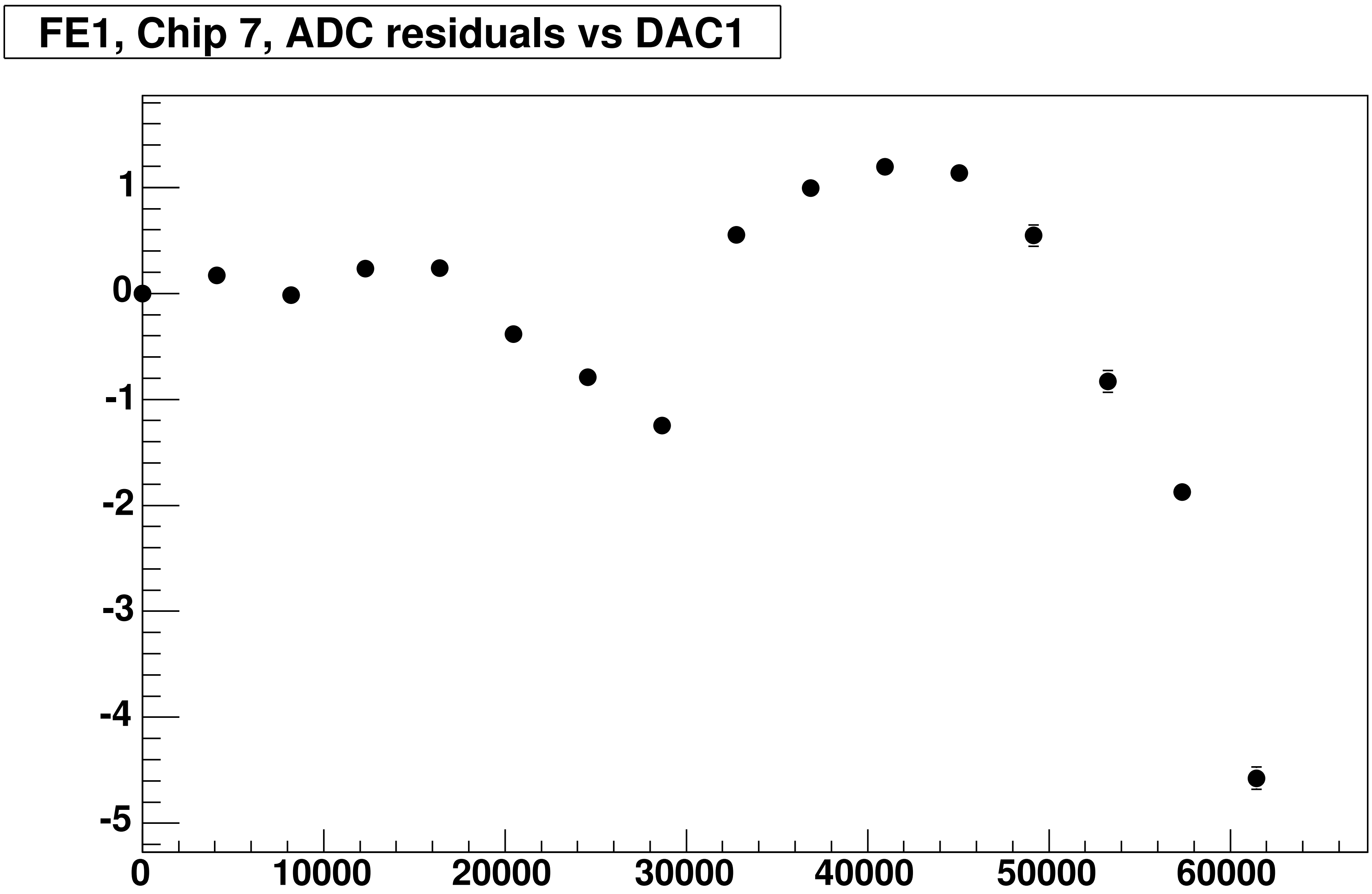


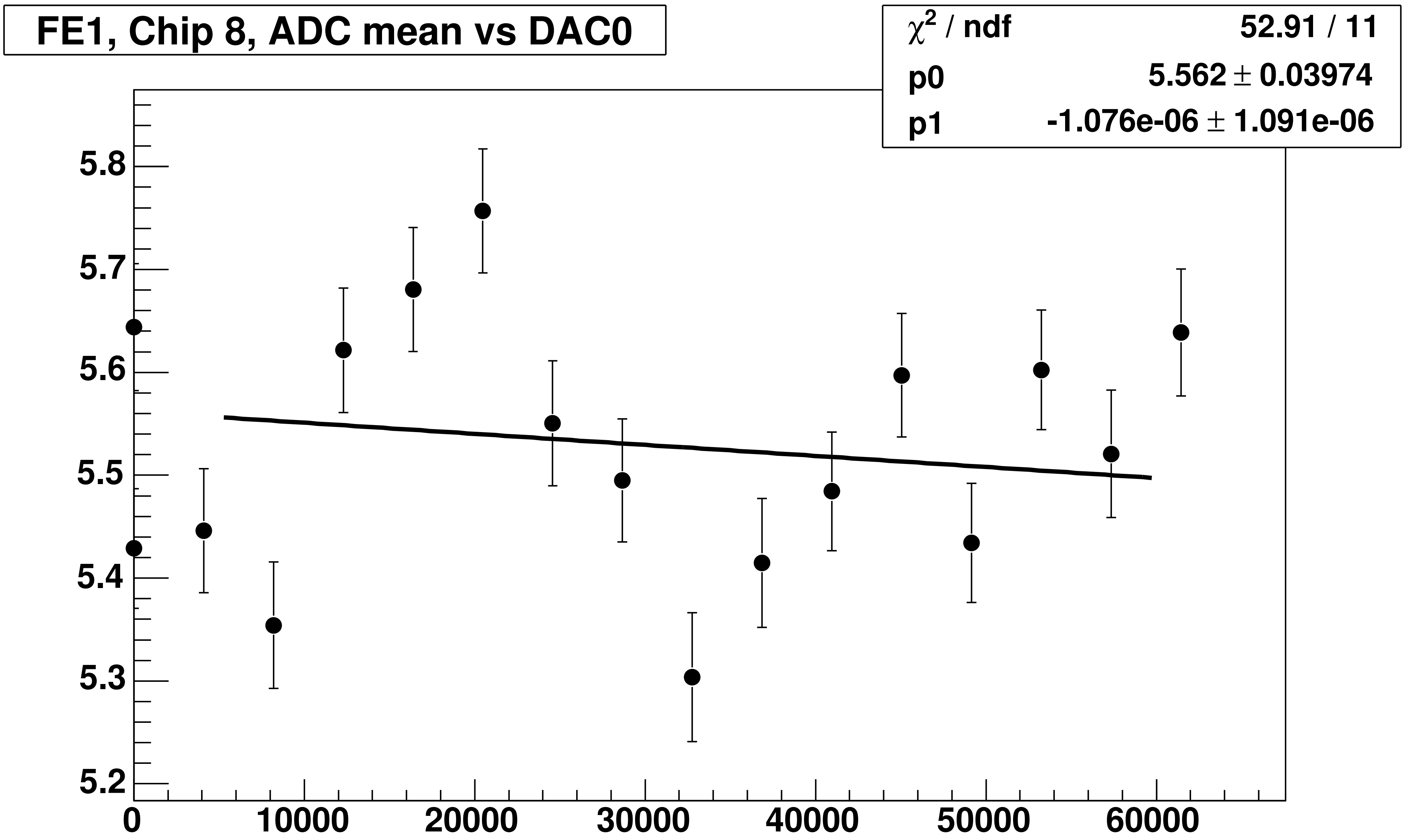
FE1, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

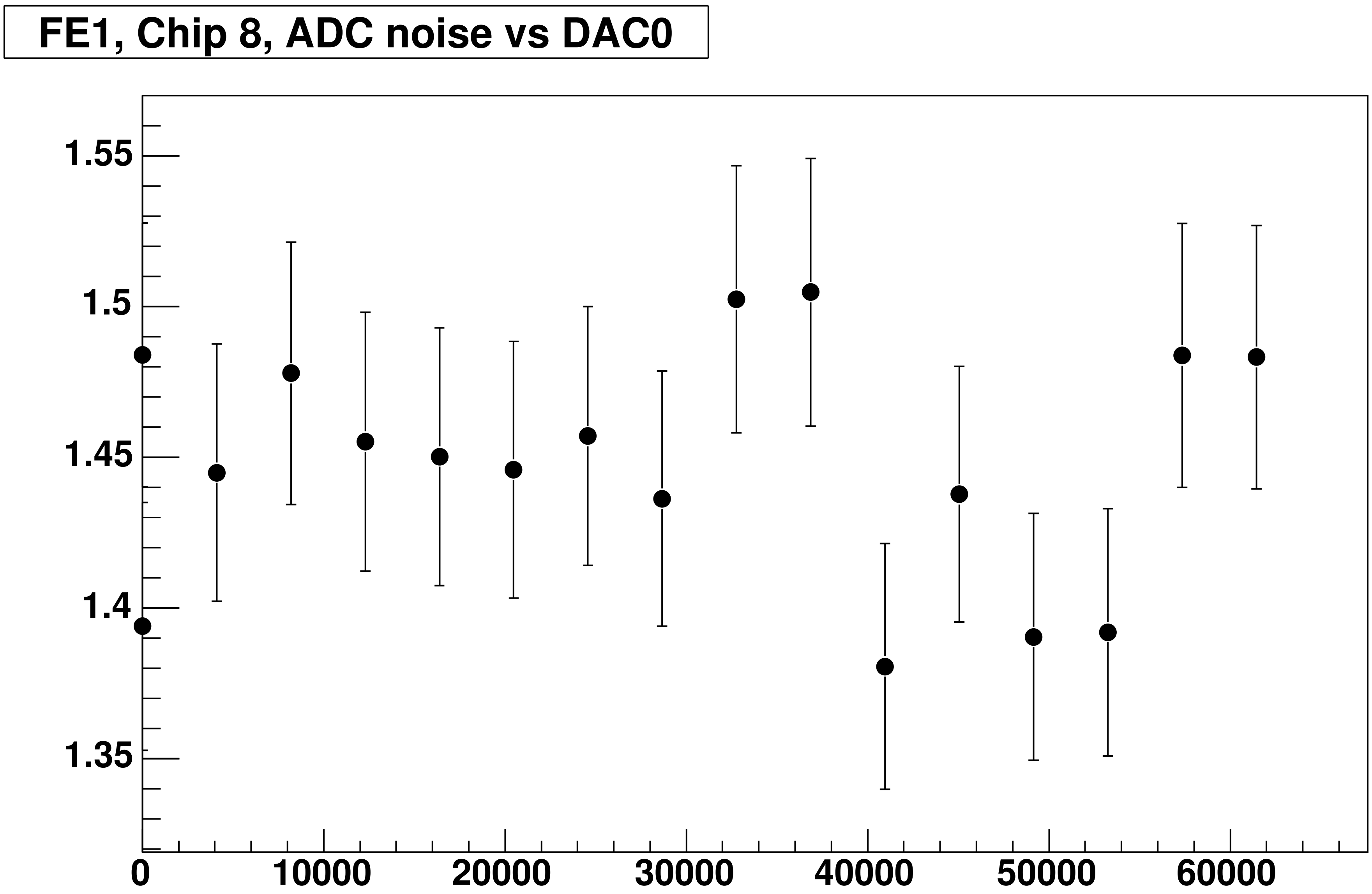


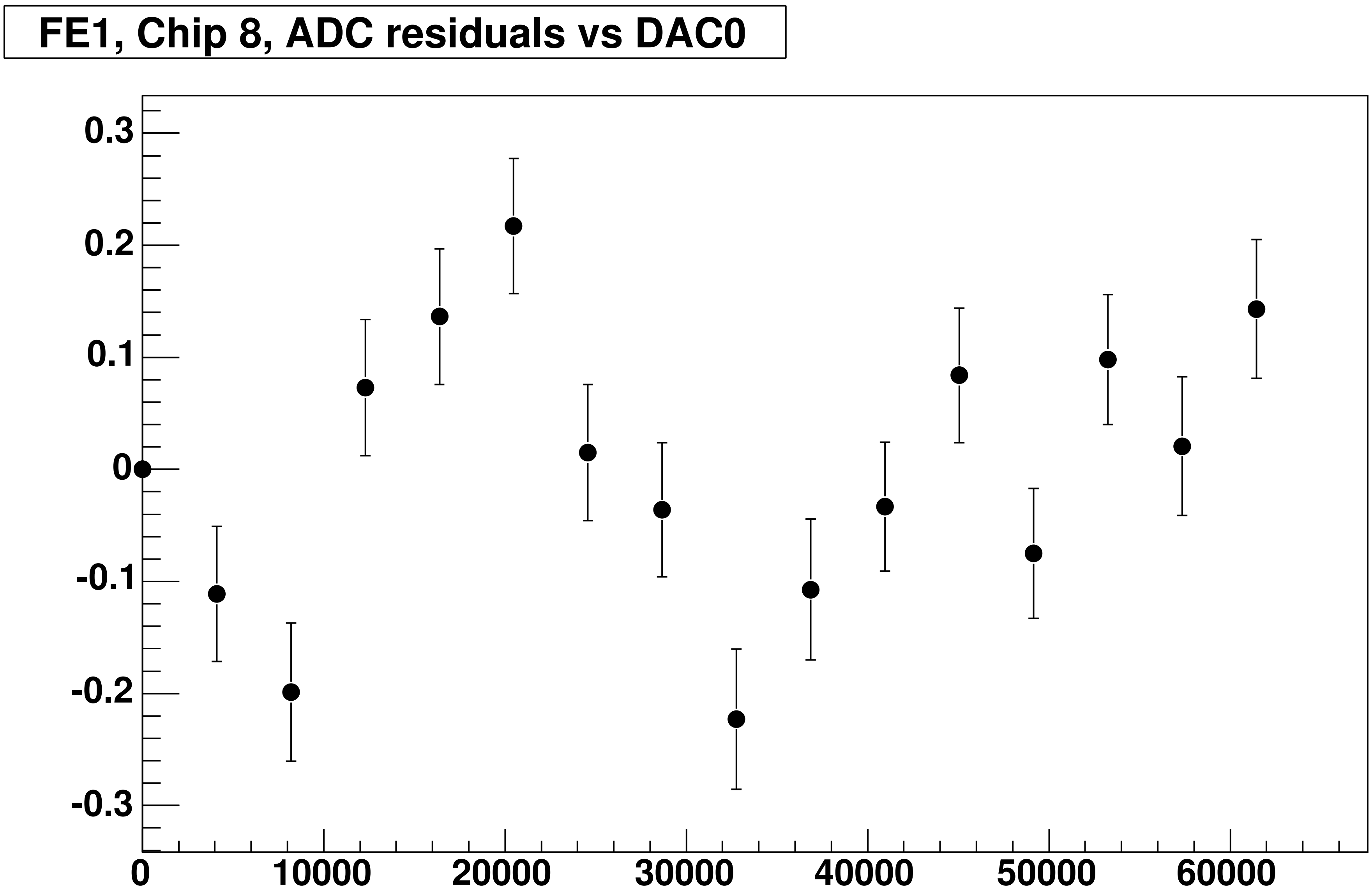
FE1, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1631 / 11
p0 16.8 ± 0.04327
p1 0.4518 ± 1.395e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

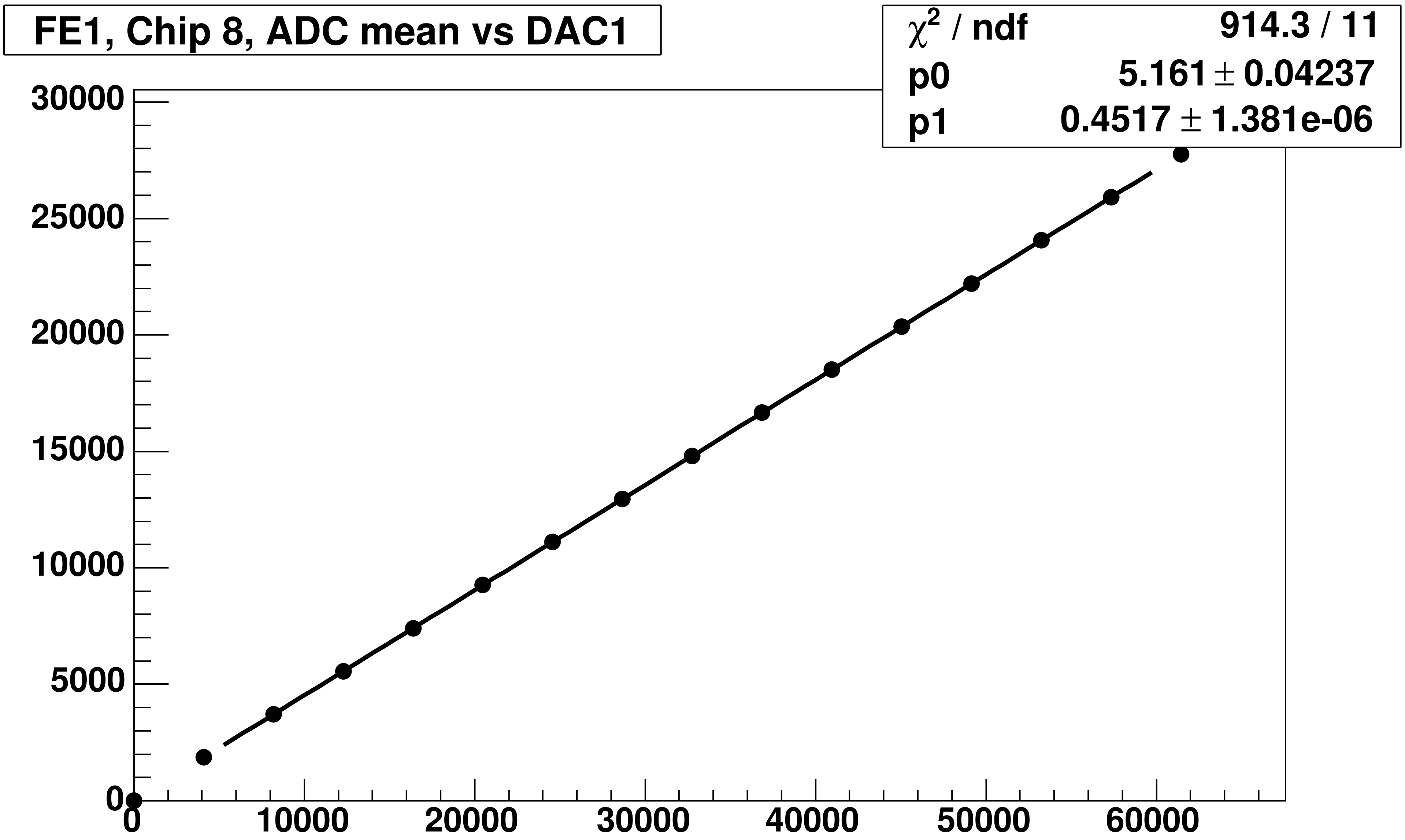

FE1, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

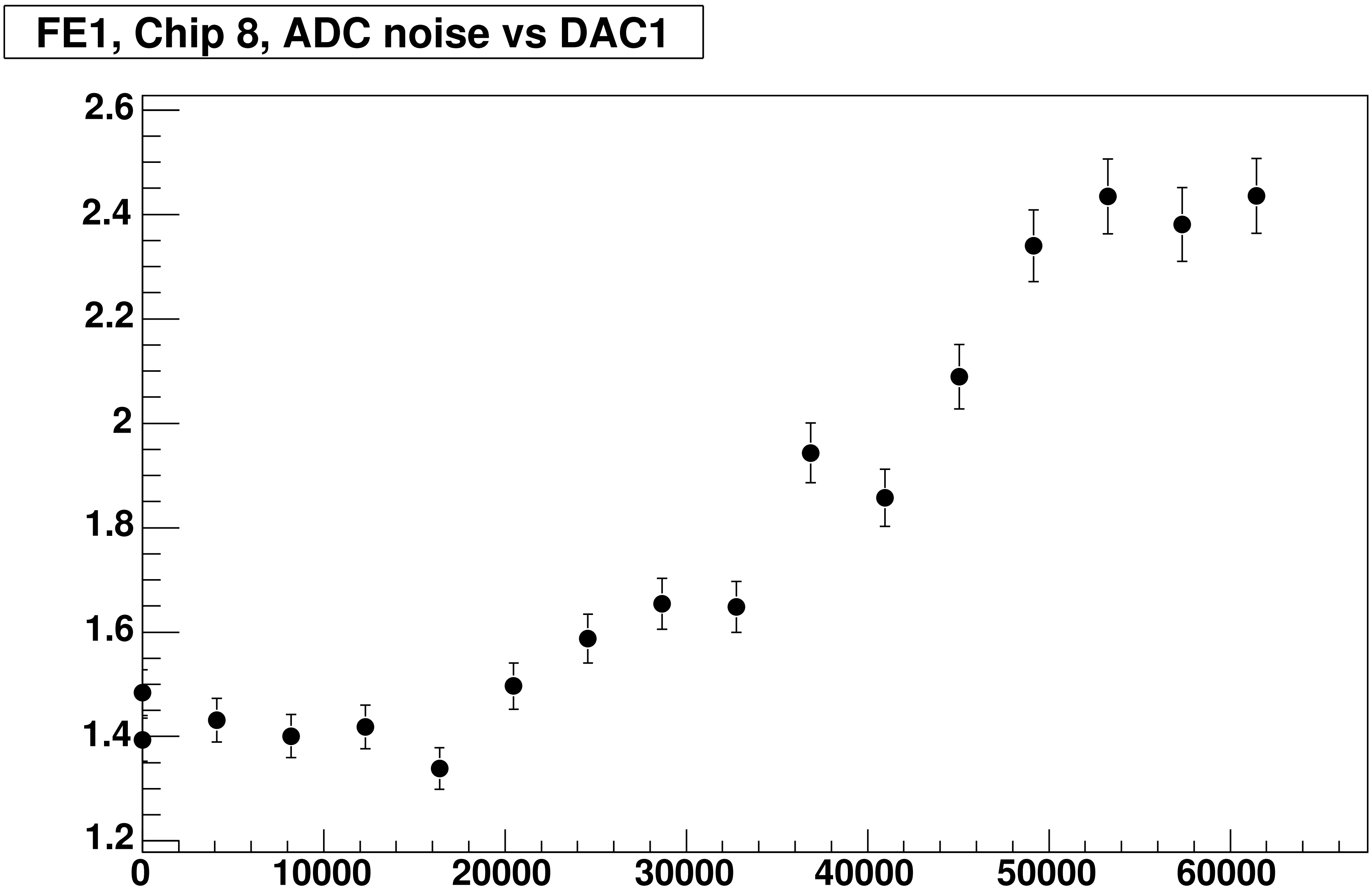

FE1, Chip 7, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

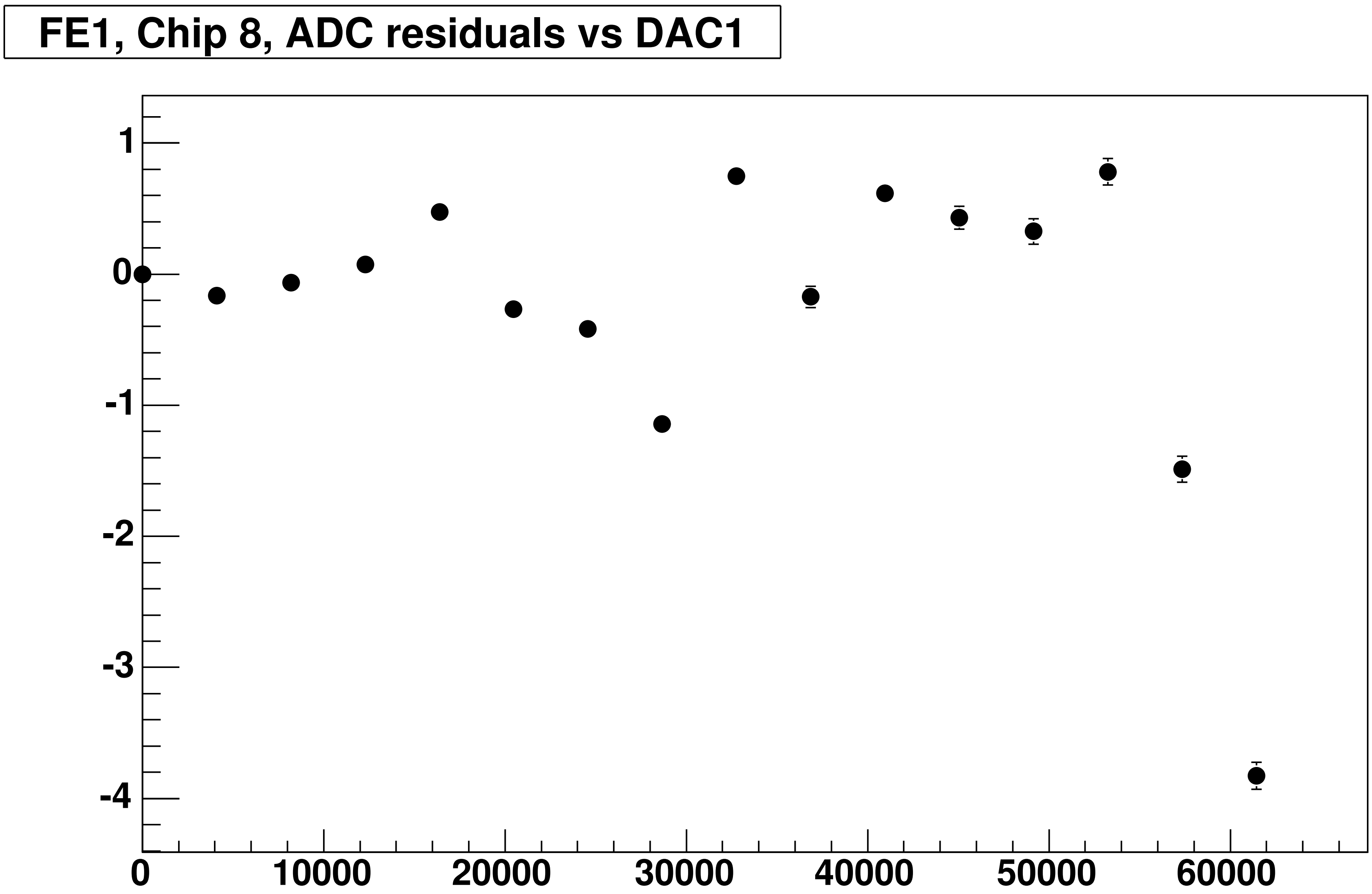

FE1, Chip 8, ADC mean vs DAC0
χ^2 / ndf 52.91 / 11
p0 5.562 ± 0.03974
p1 -1.076e-06 ± 1.091e-06
5.2
5.3
5.4
5.5
5.6
5.7
5.8
0
10000
20000
30000
40000
50000
60000

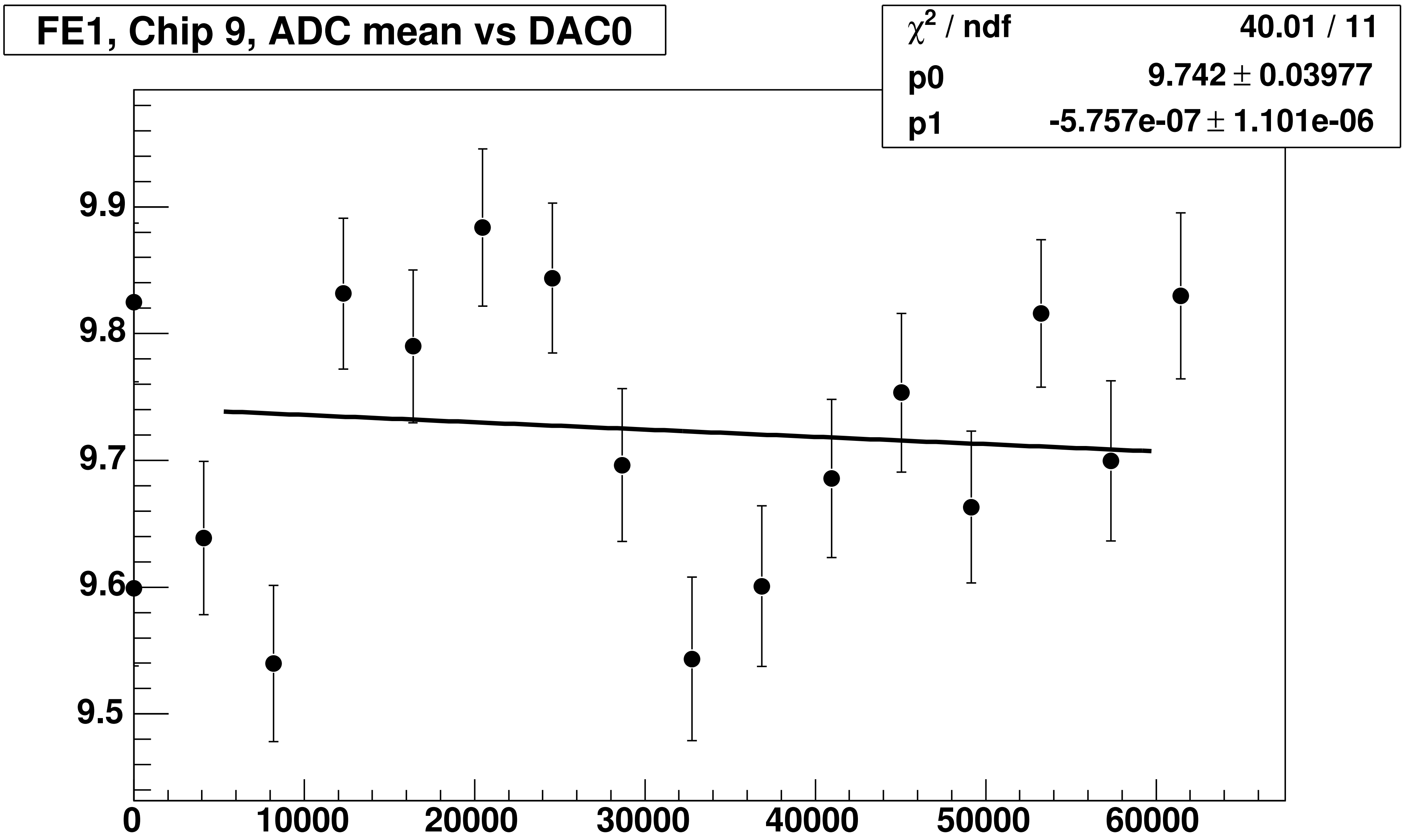

FE1, Chip 8, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

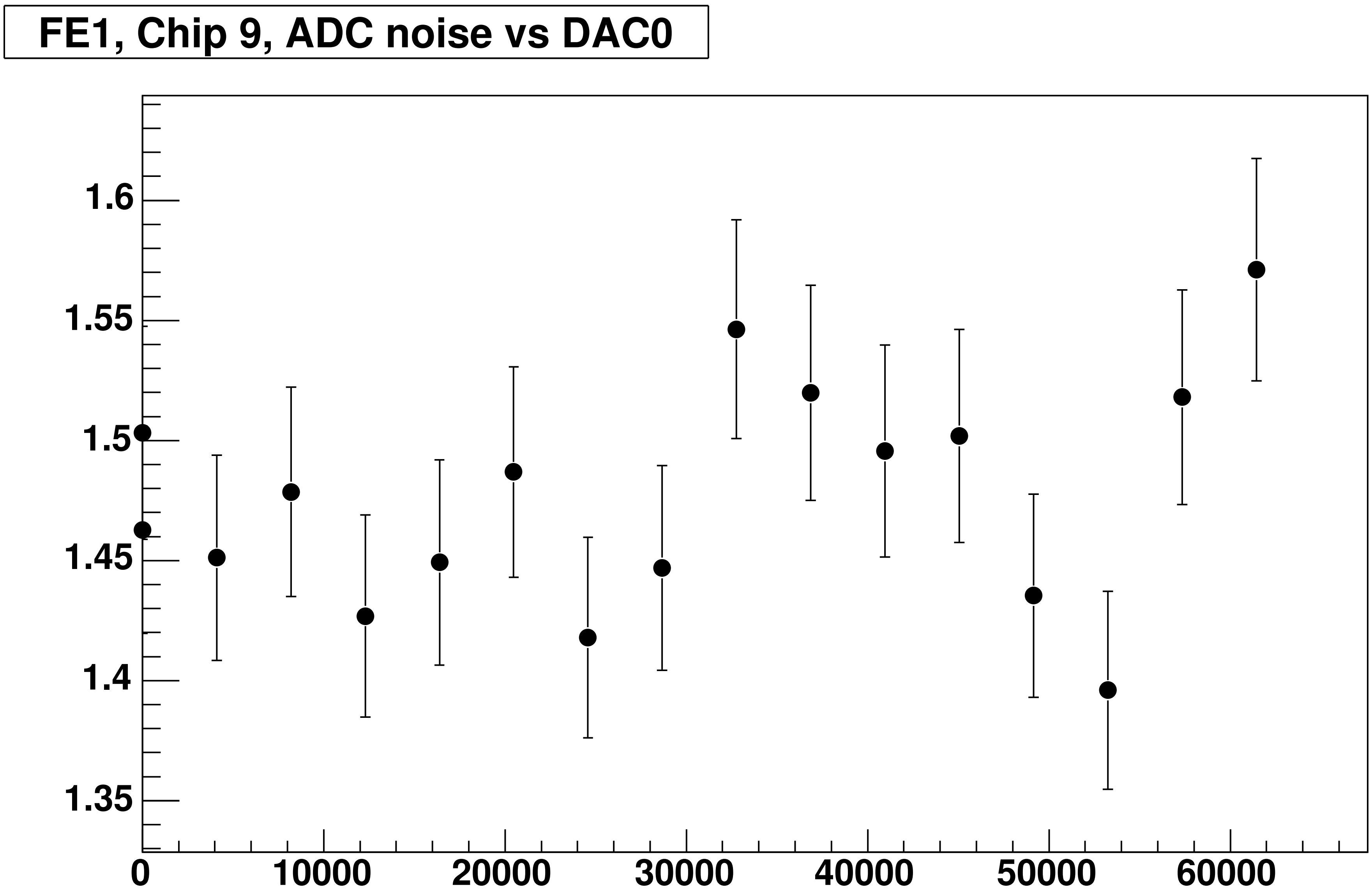

FE1, Chip 8, ADC mean vs DAC1
χ^2 / ndf 914.3 / 11
p0 5.161 ± 0.04237
p1 0.4517 ± 1.381e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

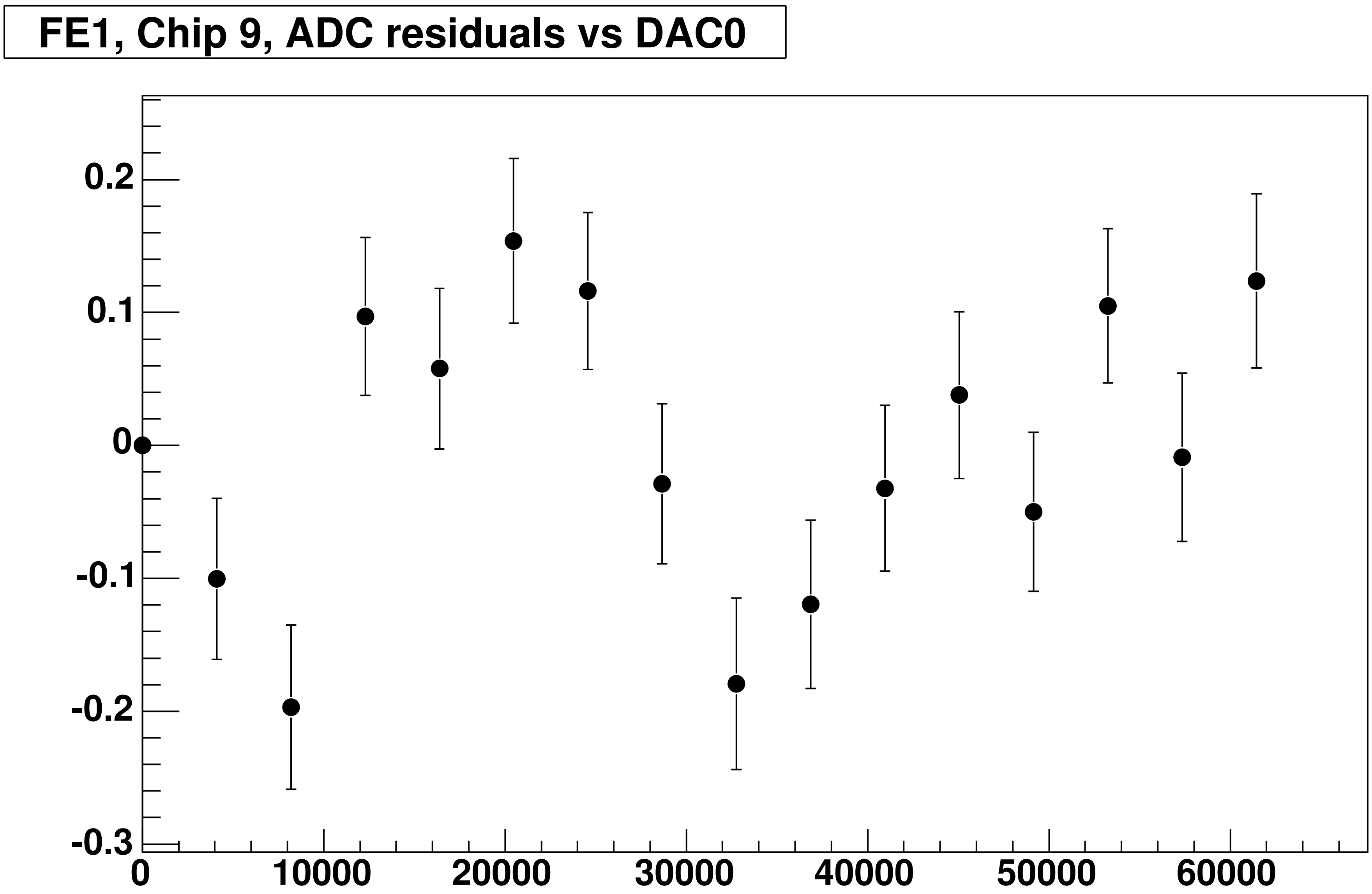

FE1, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

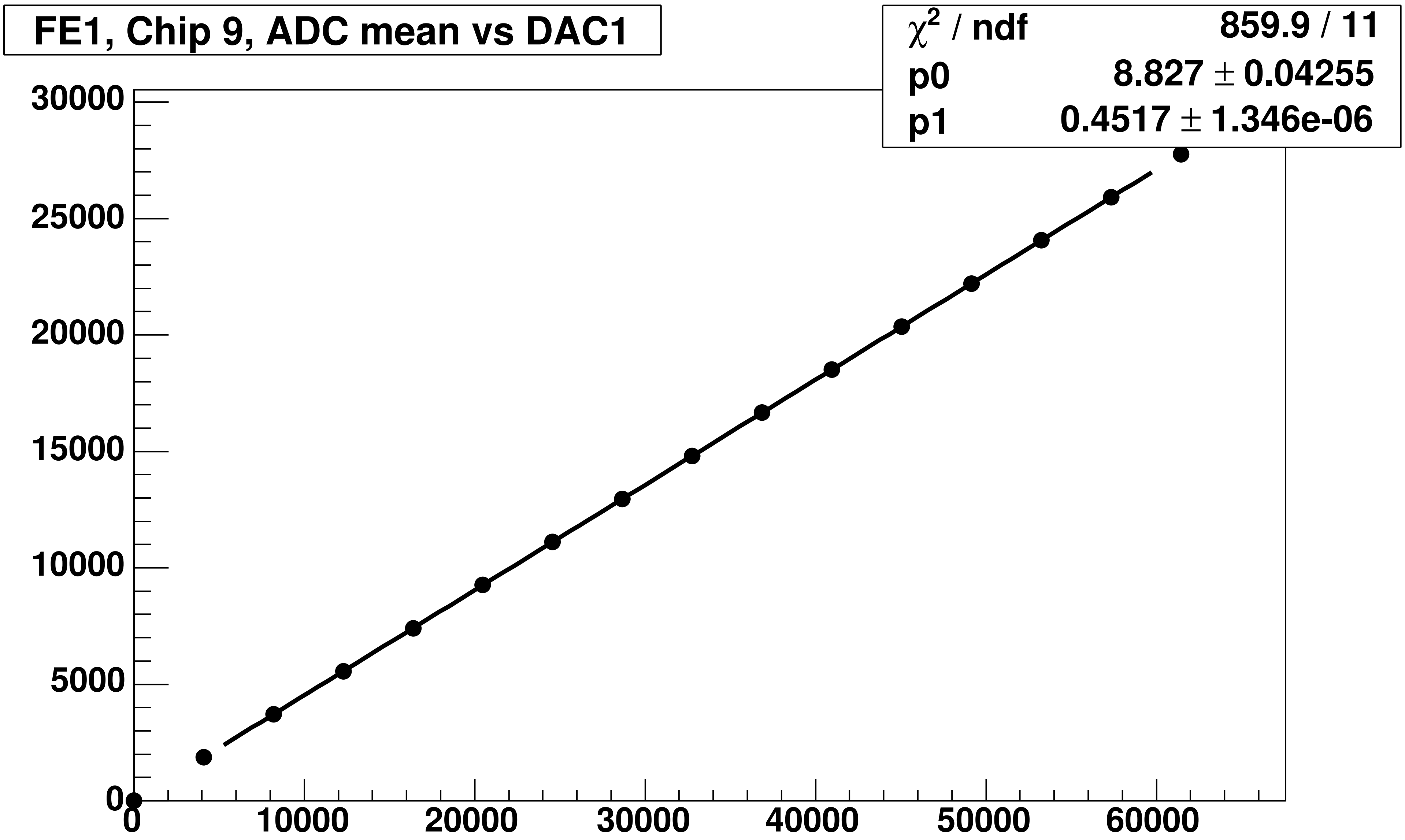

FE1, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



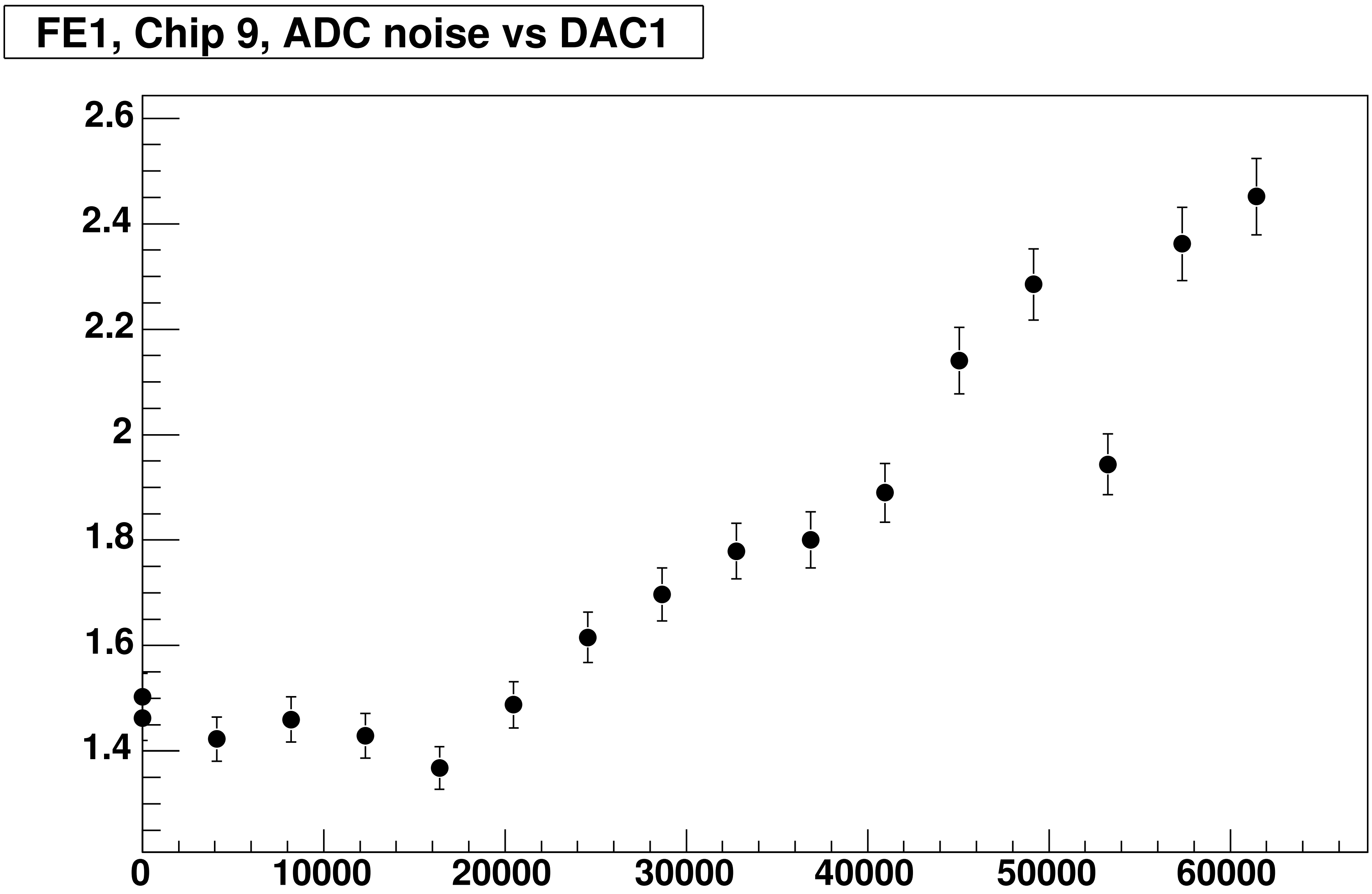
FE1, Chip 9, ADC mean vs DAC0
χ^2 / ndf 40.01 / 11
p0 9.742 ± 0.03977
p1 -5.757e-07 ± 1.101e-06
9.5
9.6
9.7
9.8
9.9
0
10000
20000
30000
40000
50000
60000

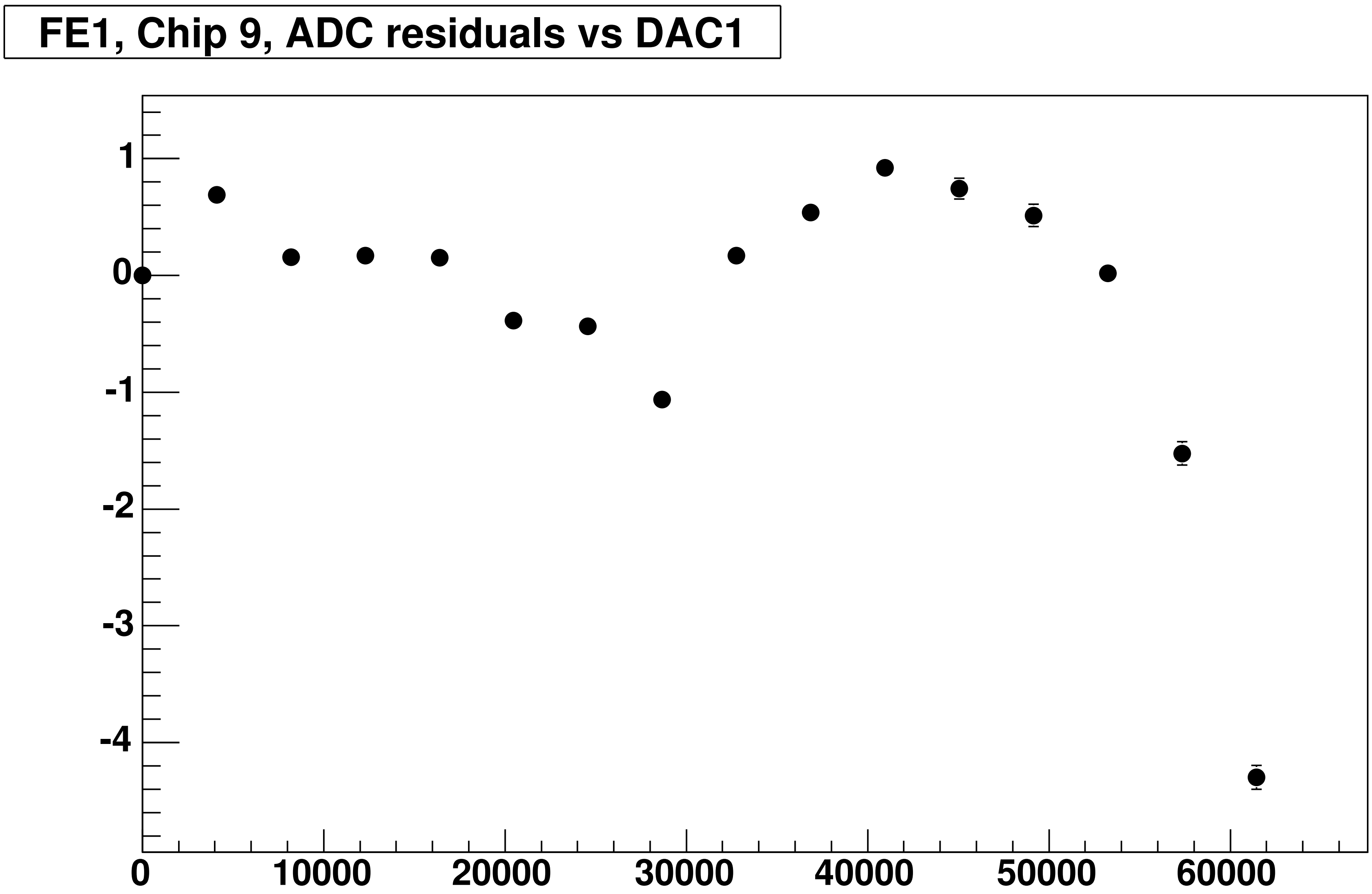

FE1, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

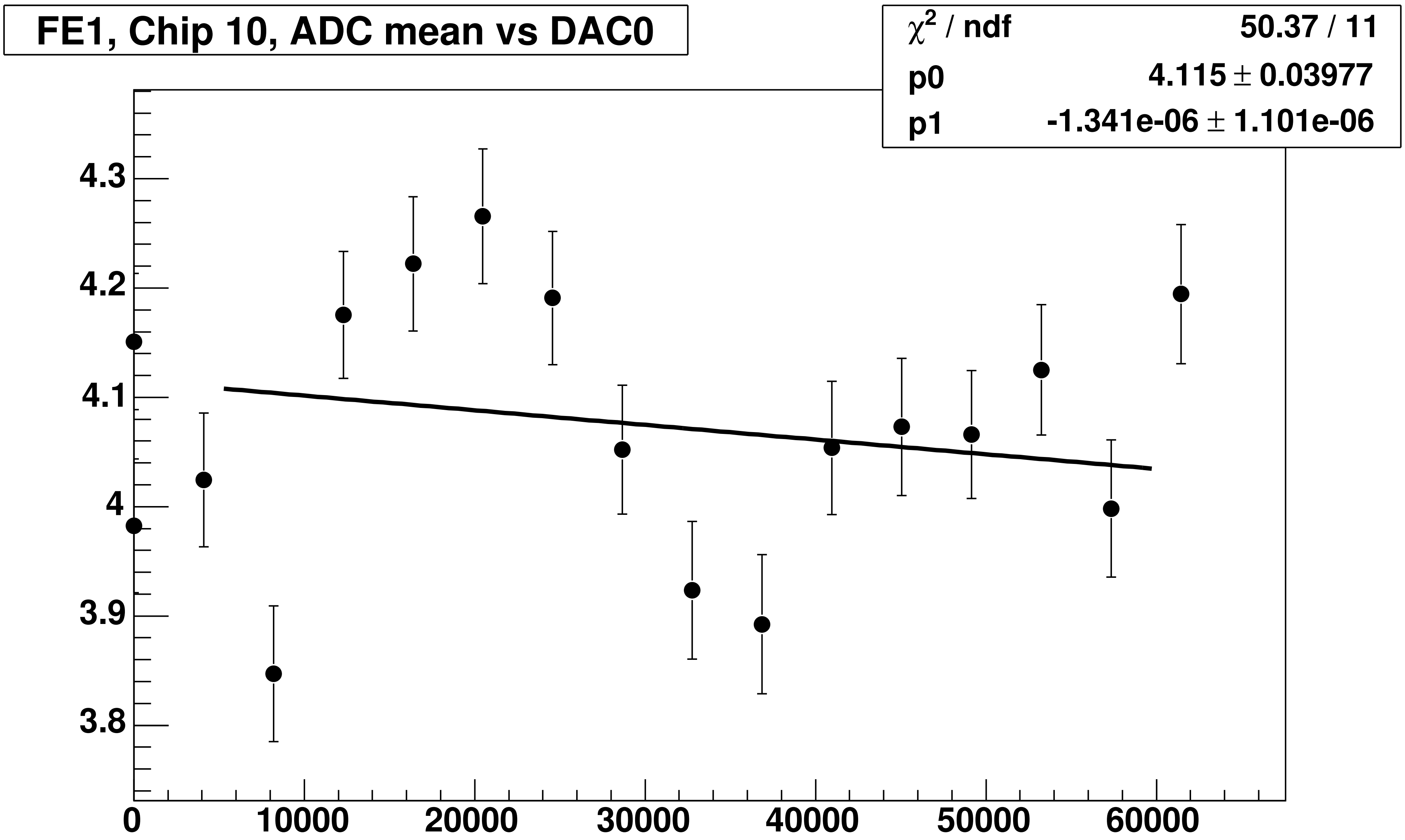

FE1, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

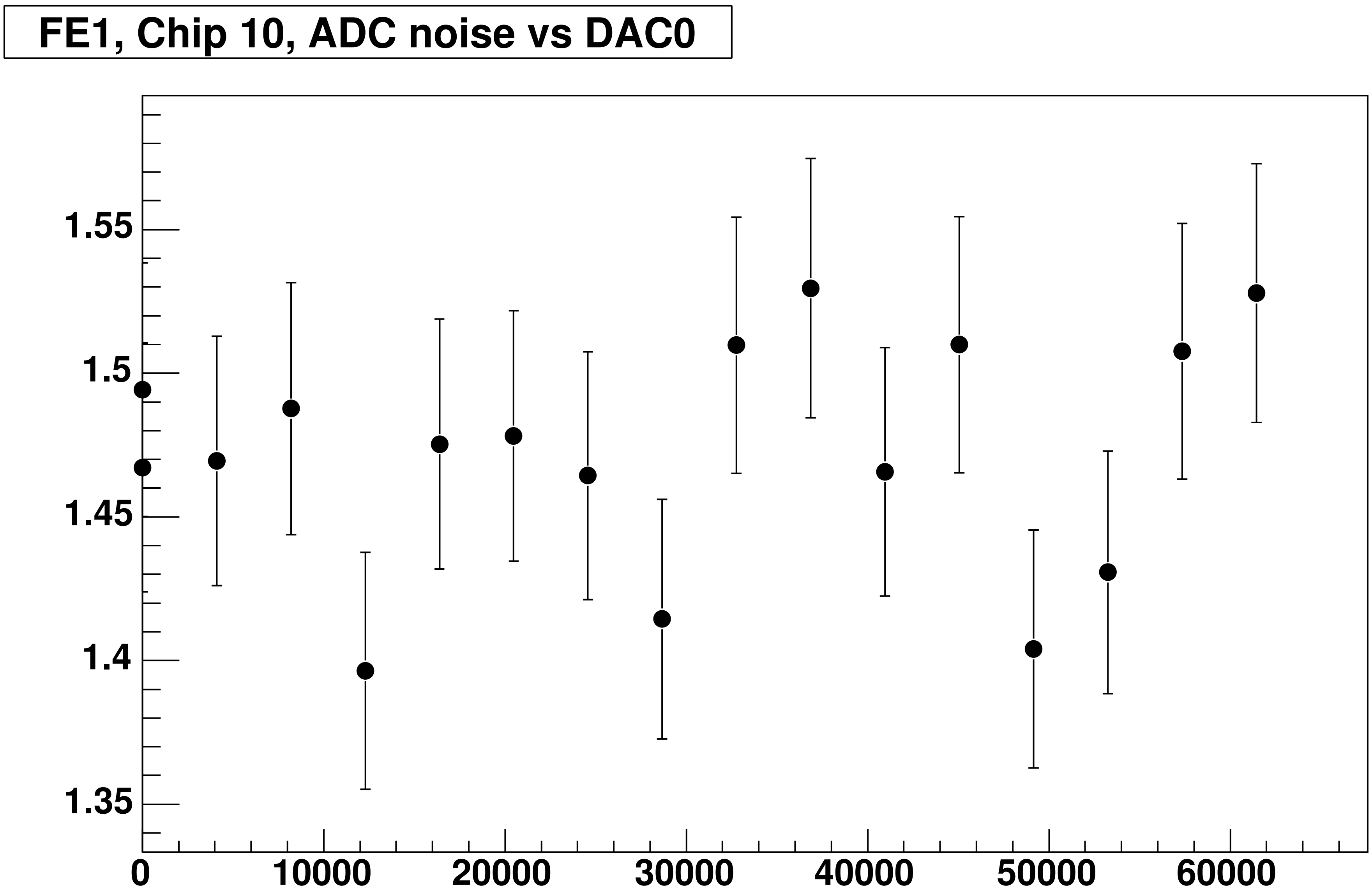


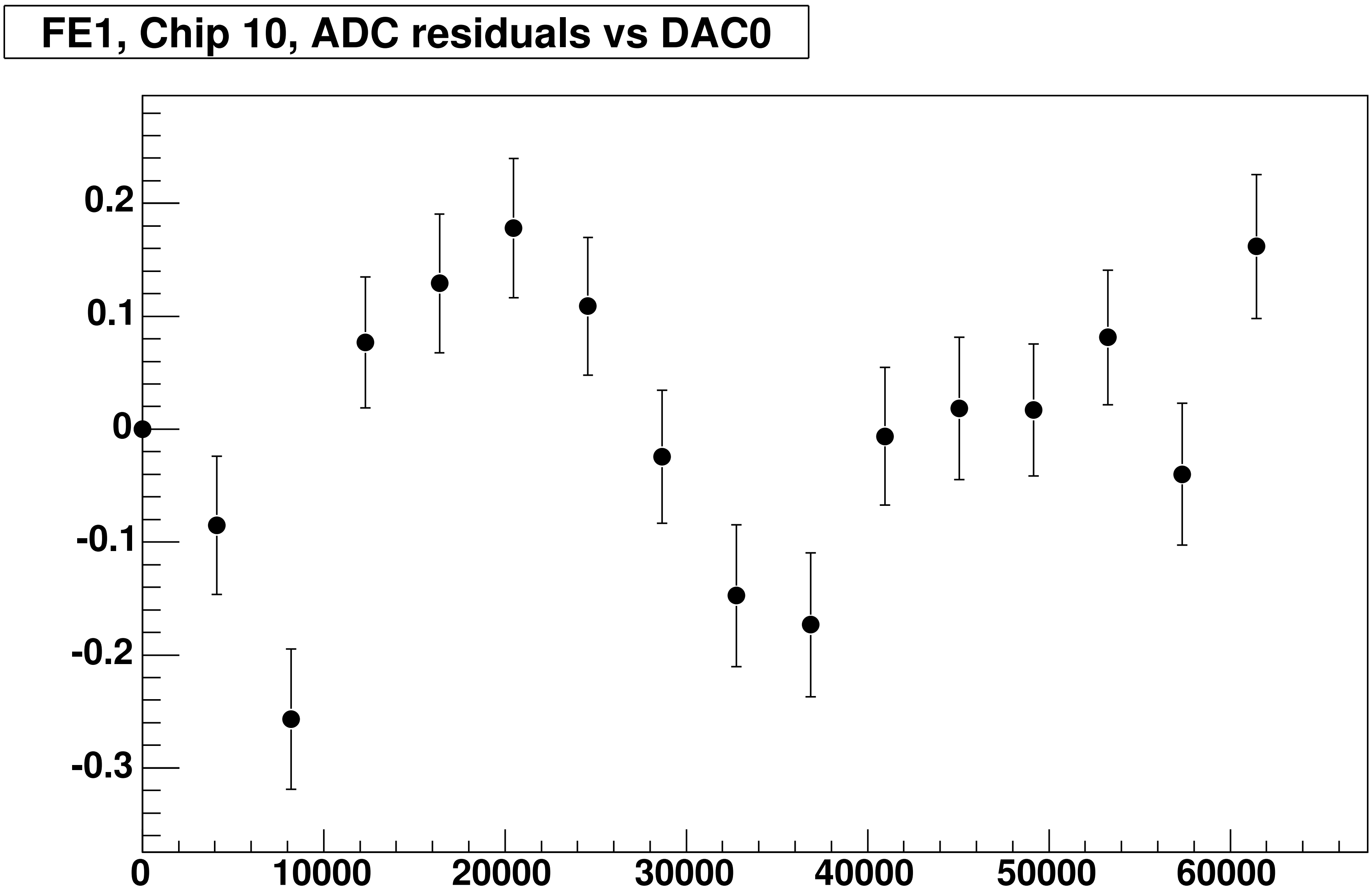
FE1, Chip 9, ADC mean vs DAC1
χ^2 / ndf 859.9 / 11
p0 8.827 ± 0.04255
p1 0.4517 ± 1.346e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

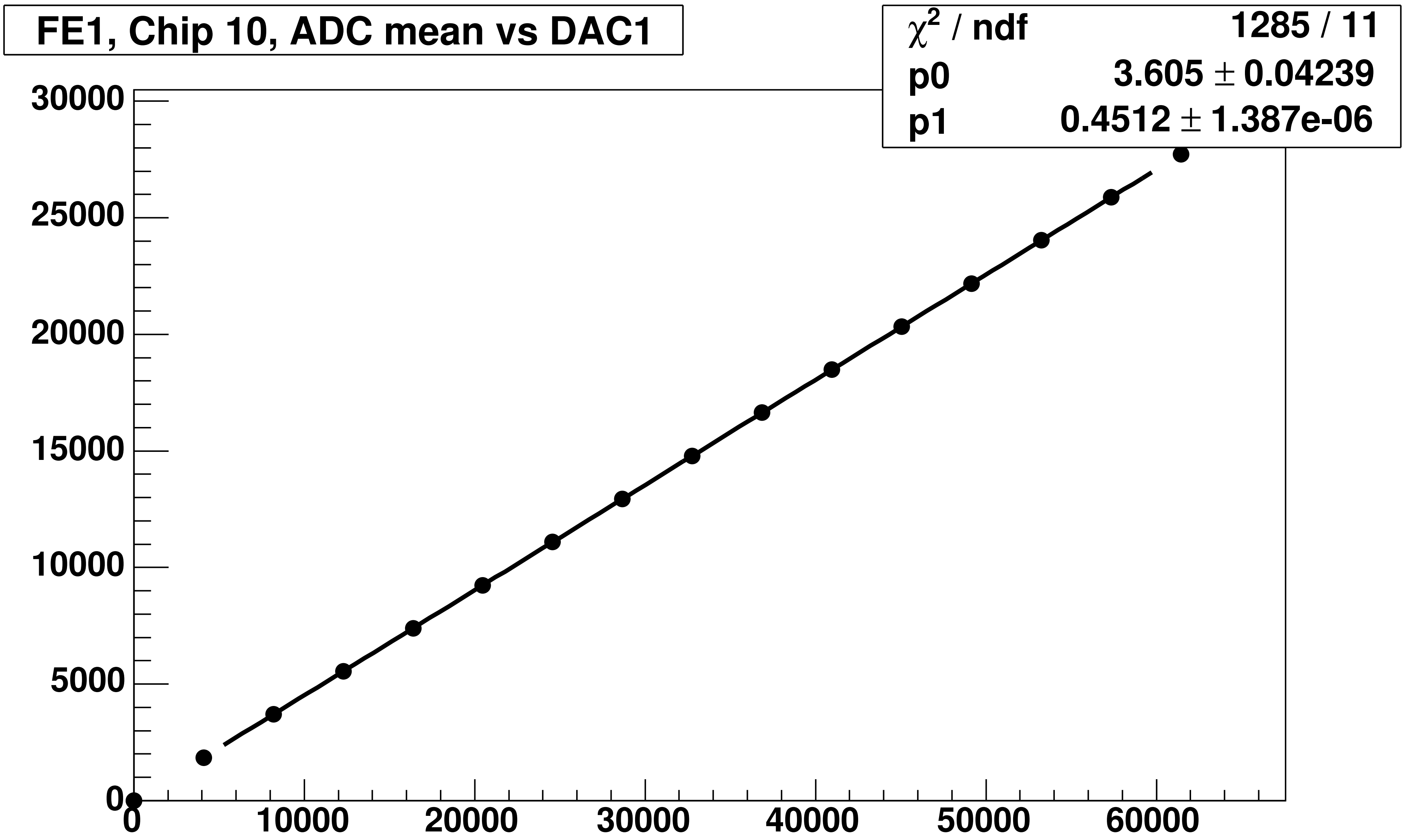

FE1, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

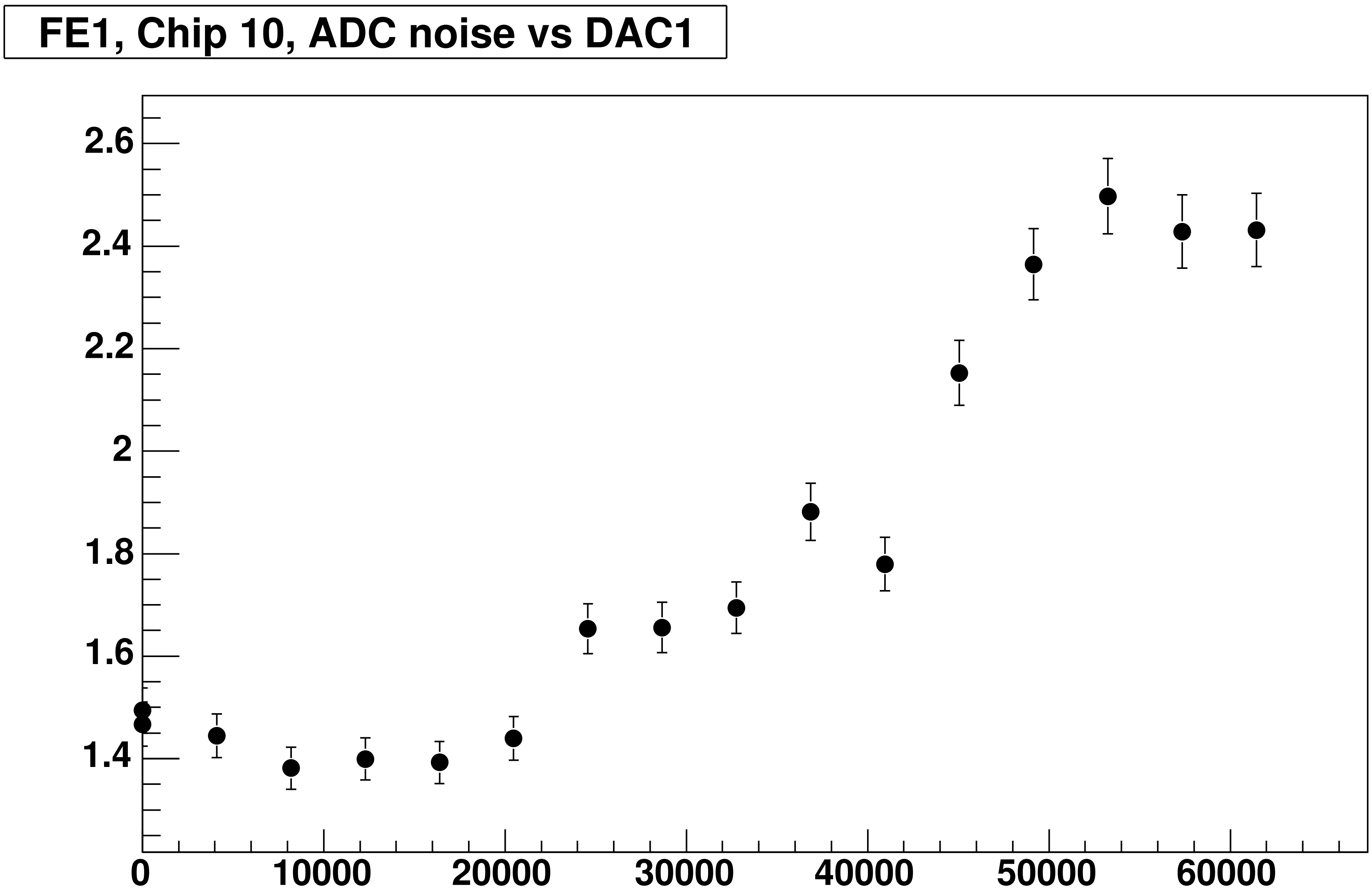

FE1, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

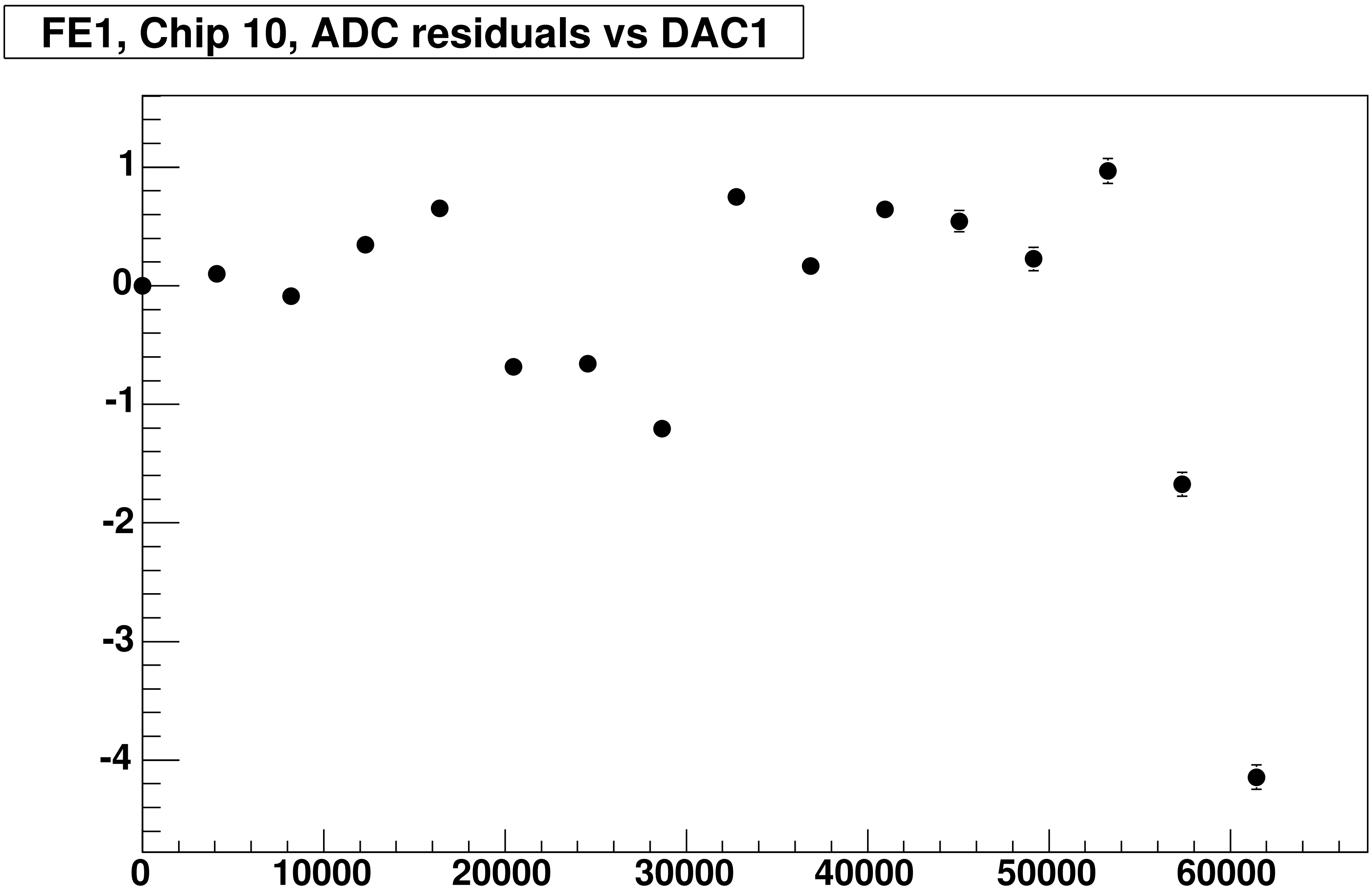

FE1, Chip 10, ADC mean vs DAC0
χ2 / ndf 50.37 / 11
p0 4.115 ± 0.03977
p1 -1.341e-06 ± 1.101e-06
4.3
4.2
4.1
4
3.9
3.8
0
10000
20000
30000
40000
50000
60000

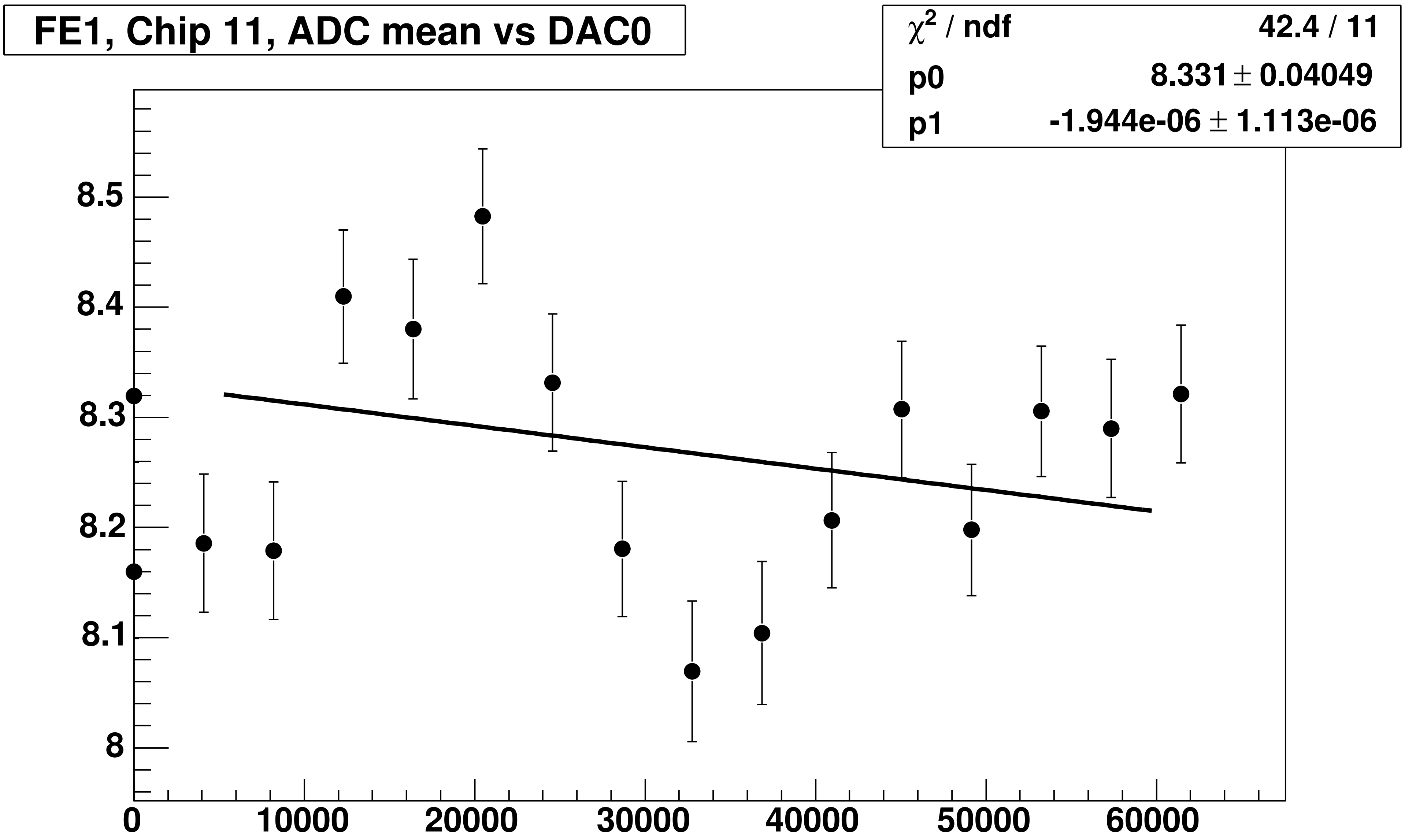

FE1, Chip 10, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

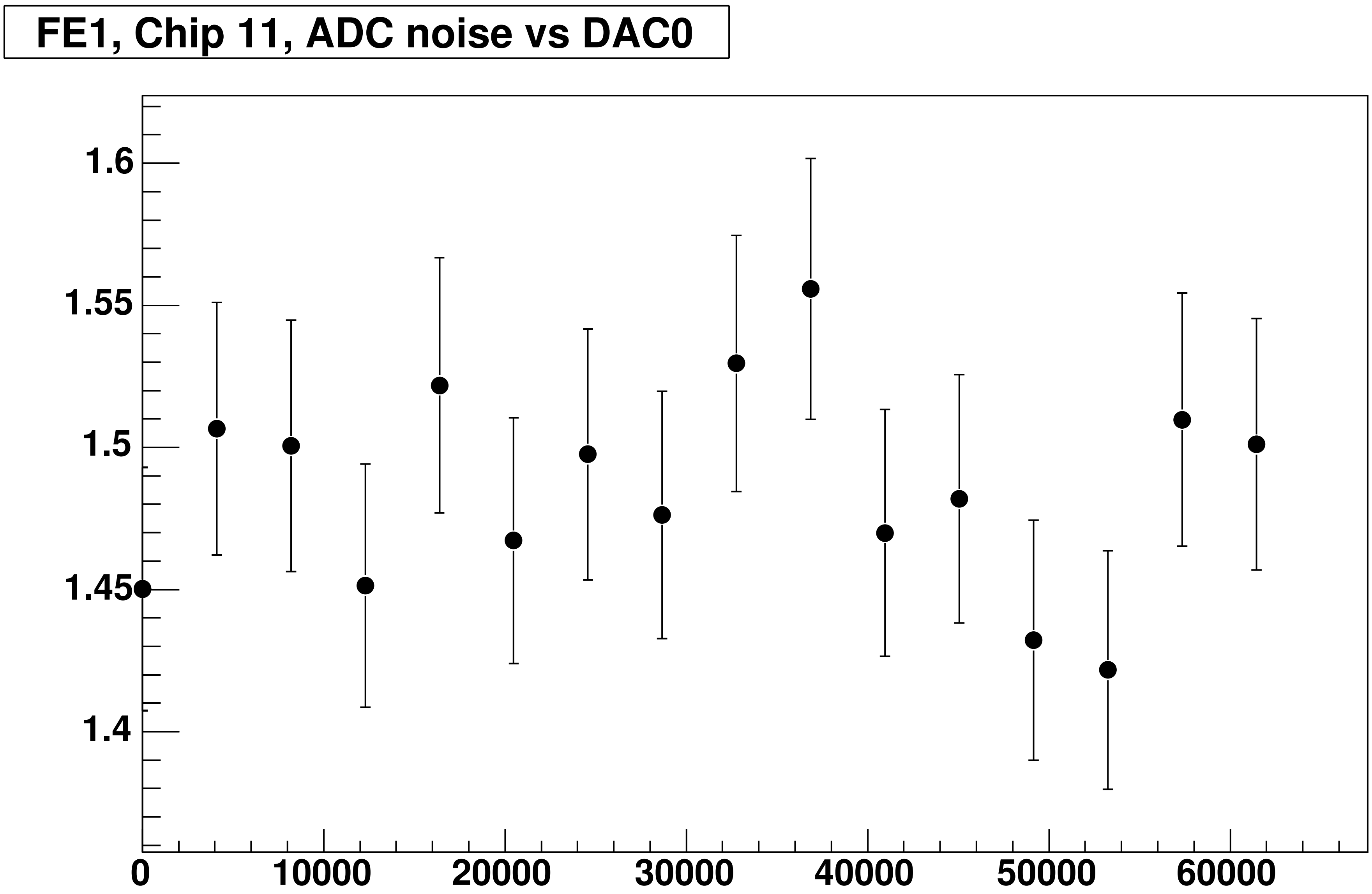

FE1, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

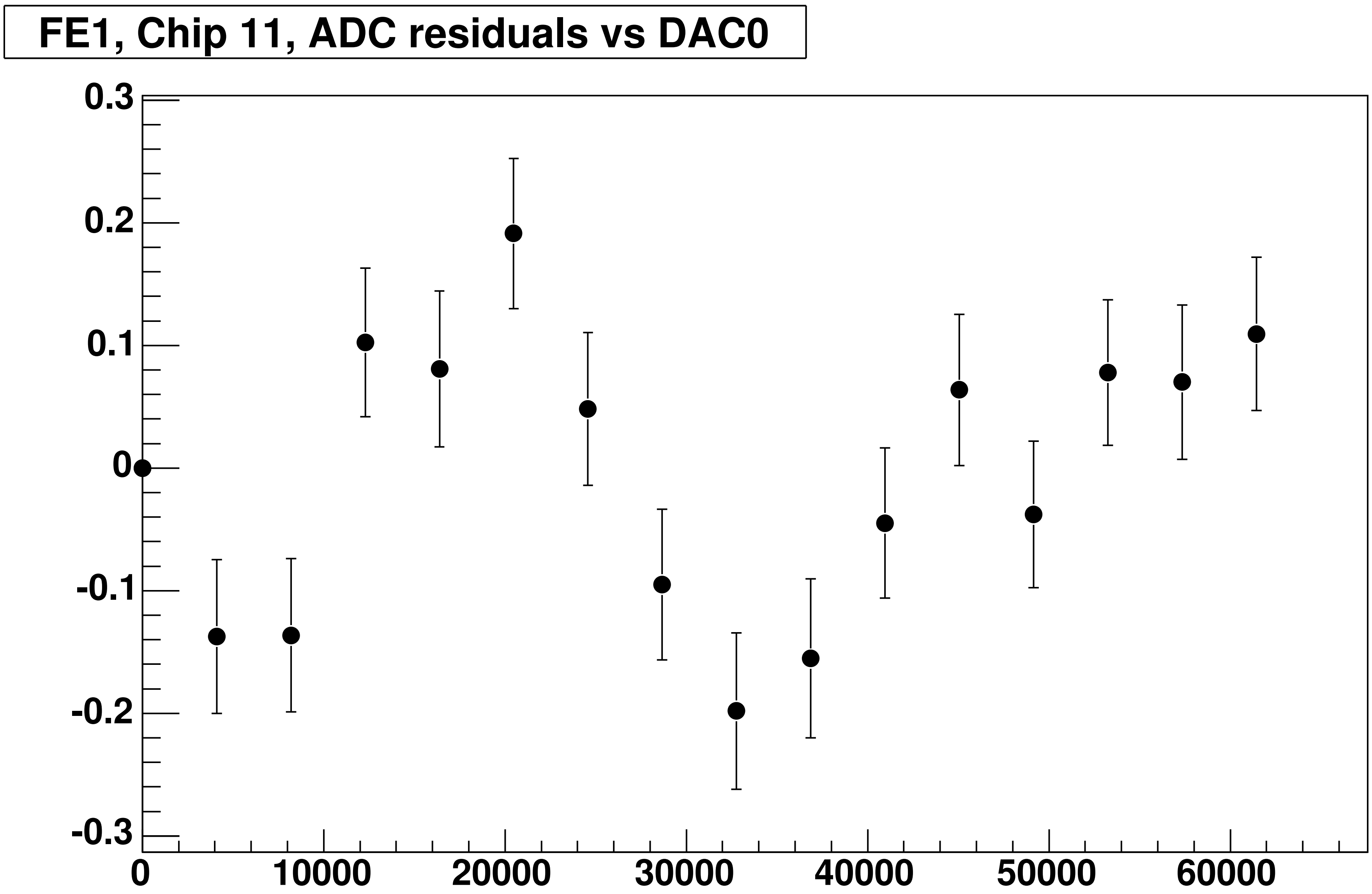

FE1, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1285 / 11
p0 3.605 ± 0.04239
p1 0.4512 ± 1.387e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

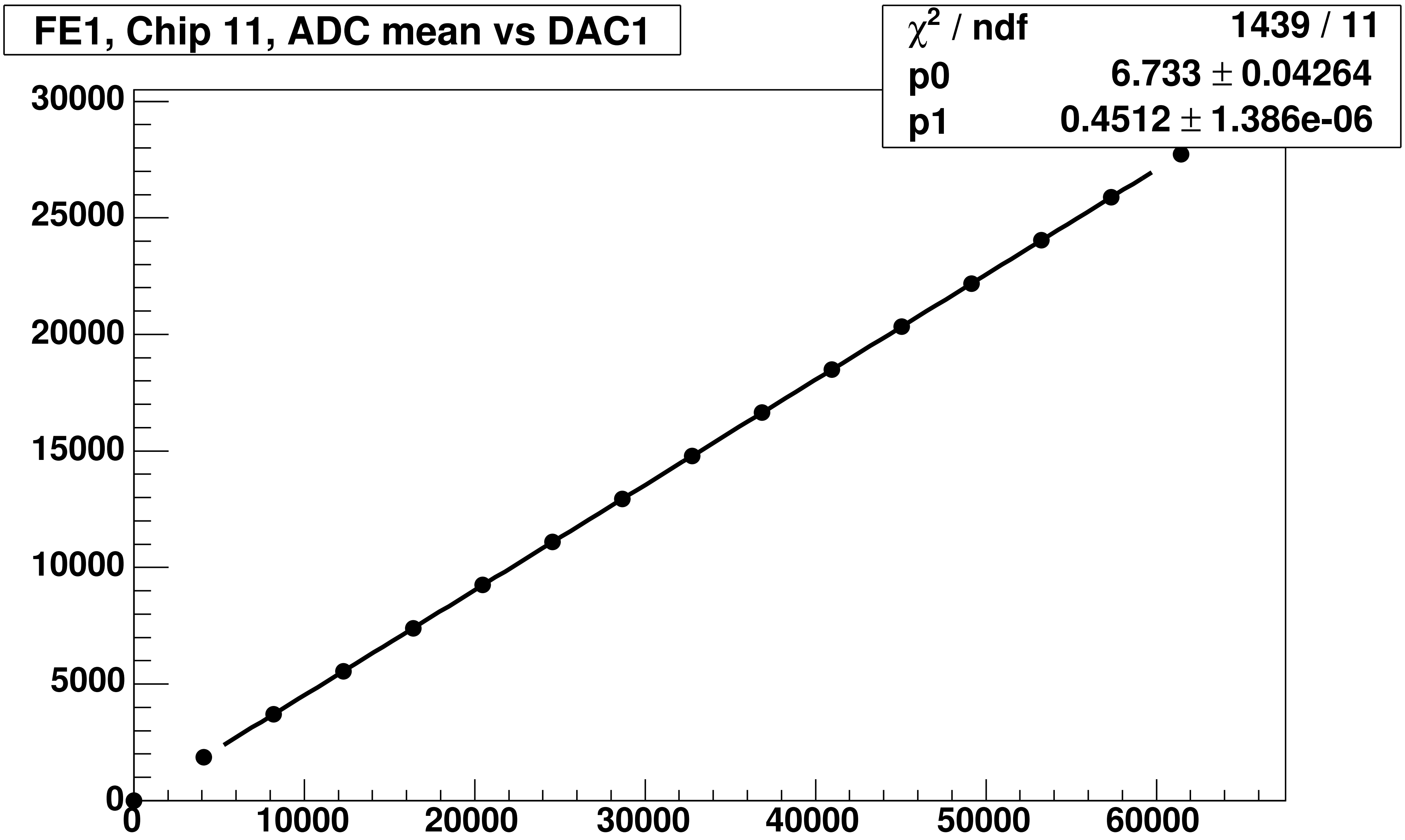

FE1, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

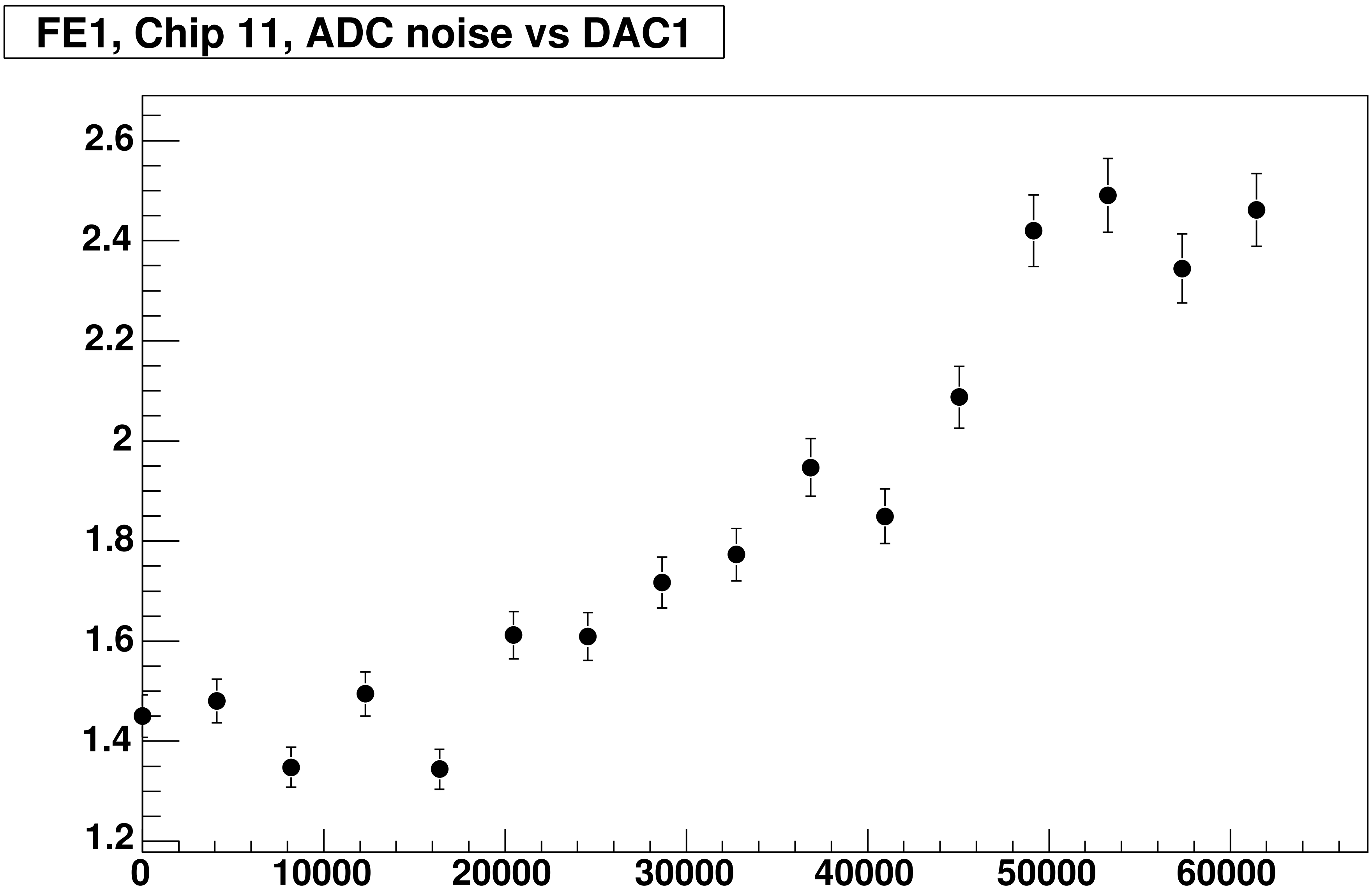

FE1, Chip 11, ADC mean vs DAC0
χ^2 / ndf 42.4 / 11
p0 8.331 ± 0.04049
p1 -1.944e-06 ± 1.113e-06
8.5
8.4
8.3
8.2
8.1
8
0
10000
20000
30000
40000
50000
60000

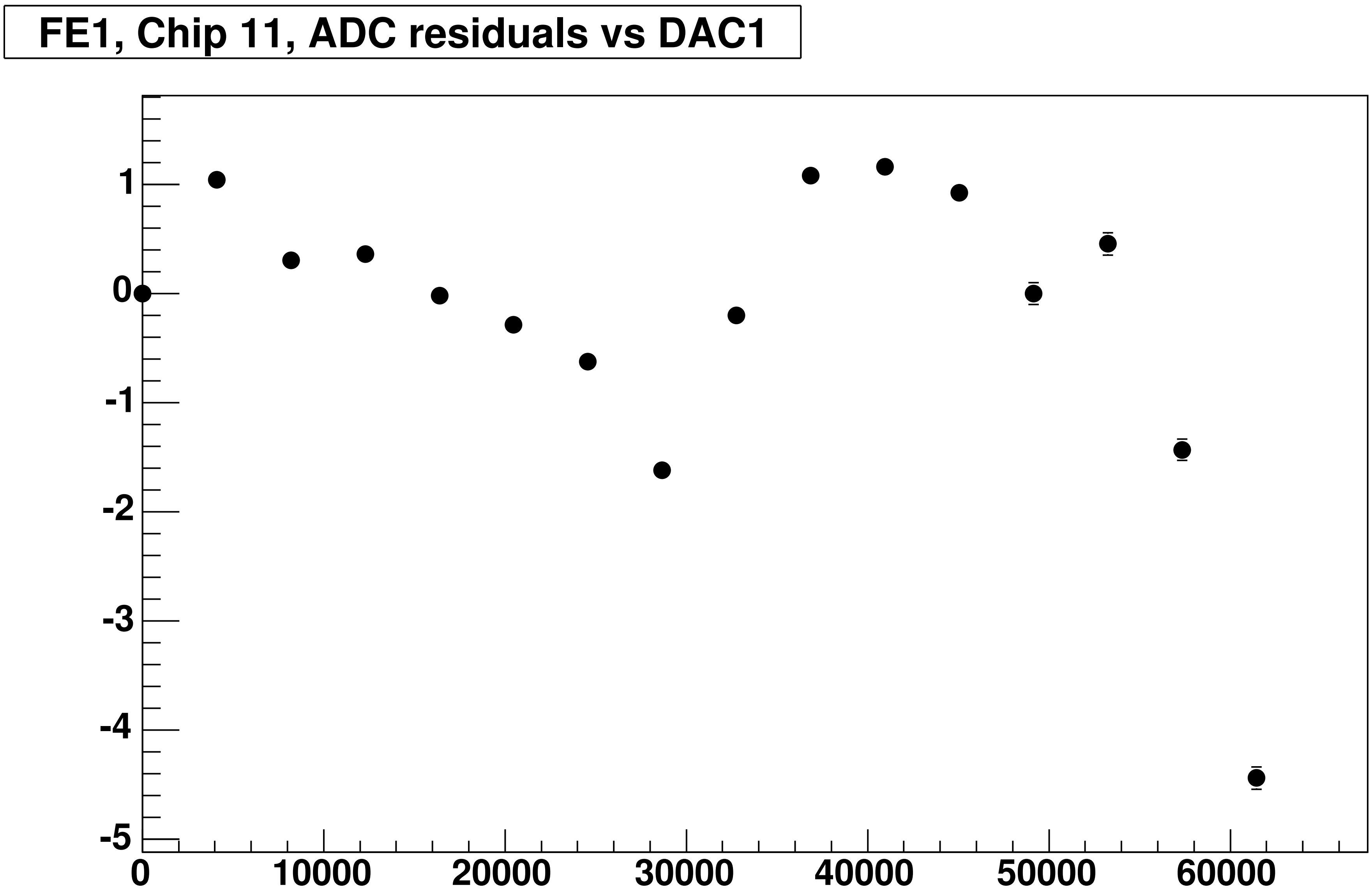

FE1, Chip 11, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

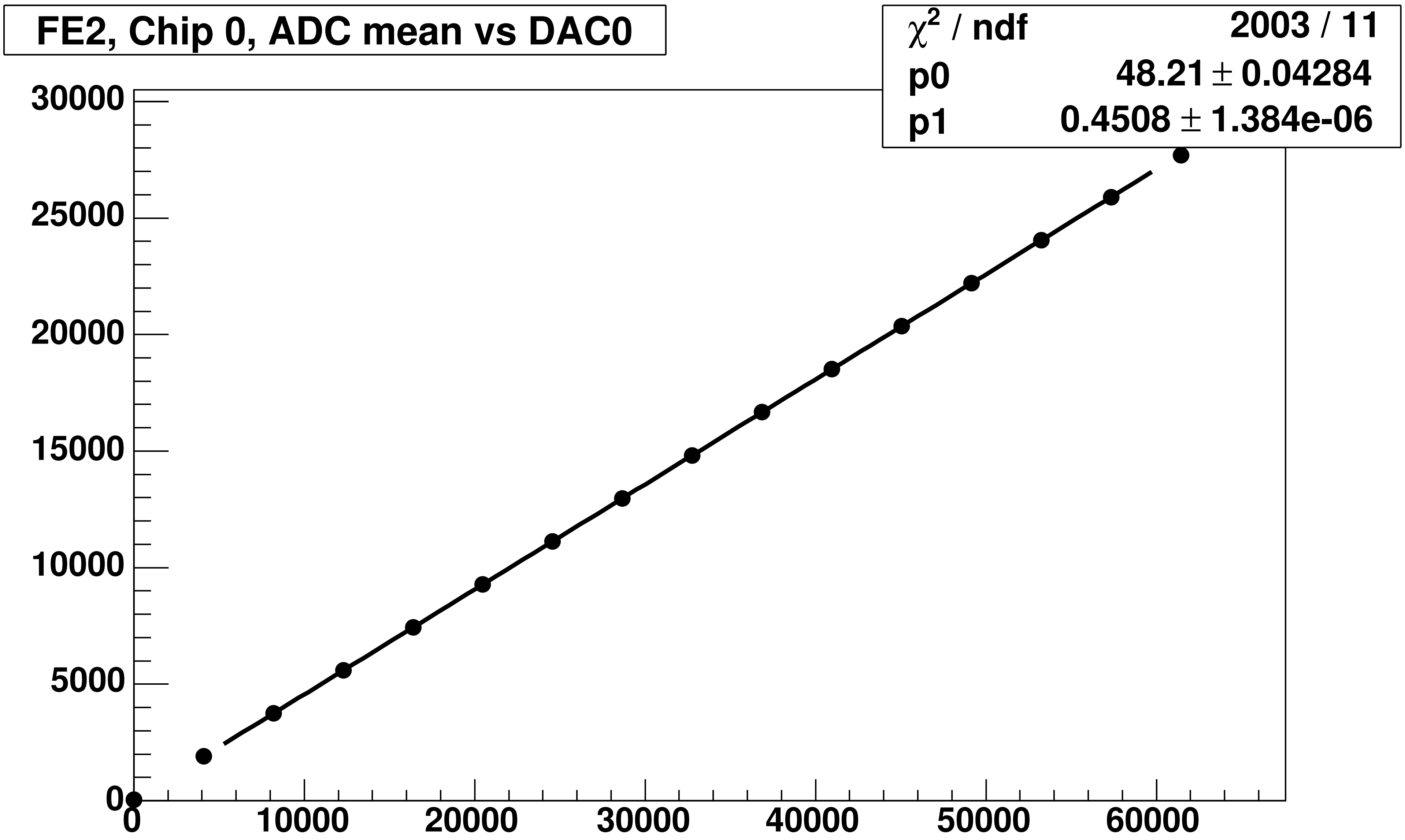


FE1, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

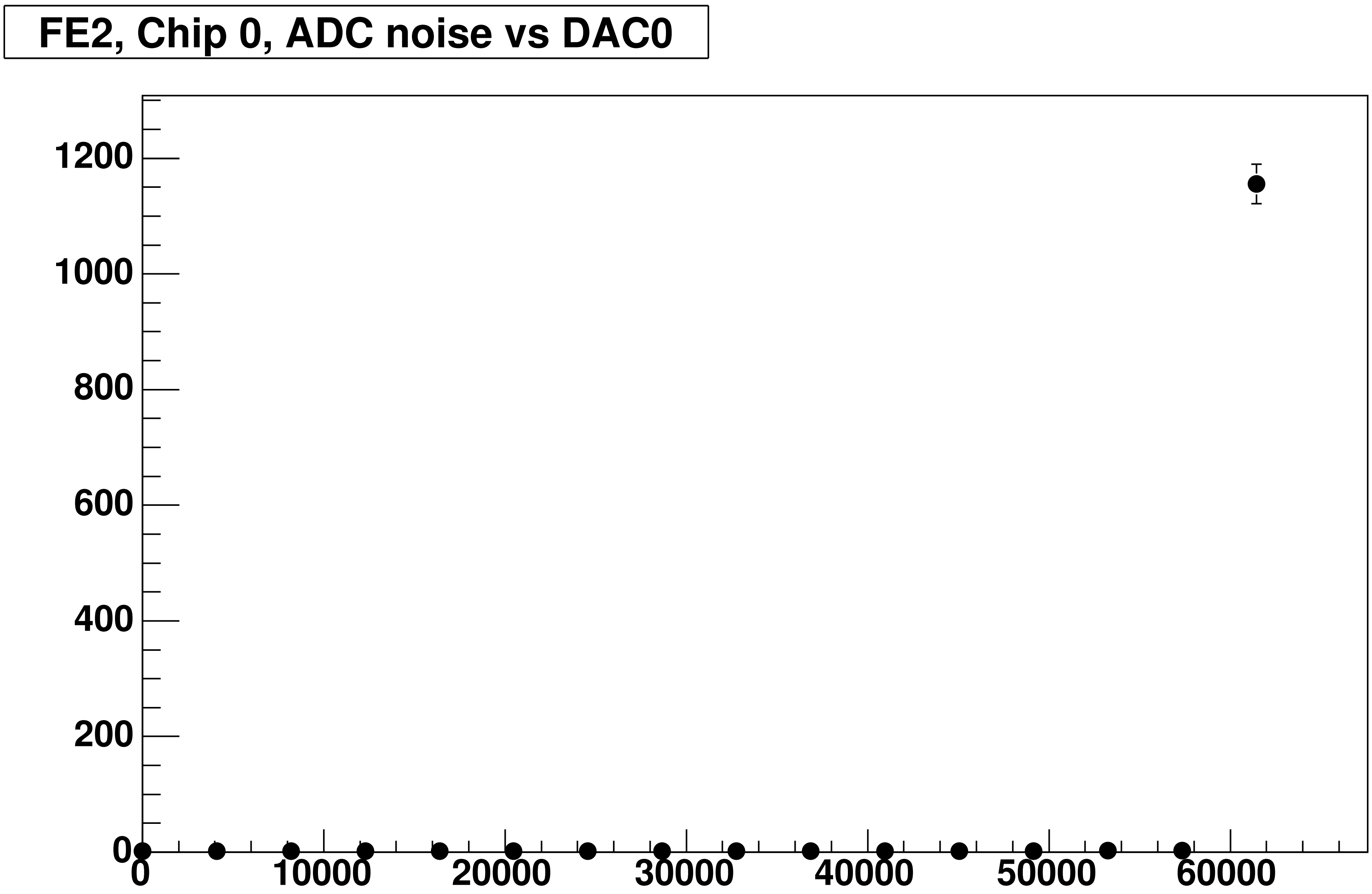

FE1, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1439 / 11
p0 6.733 ± 0.04264
p1 0.4512 ± 1.386e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE1, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

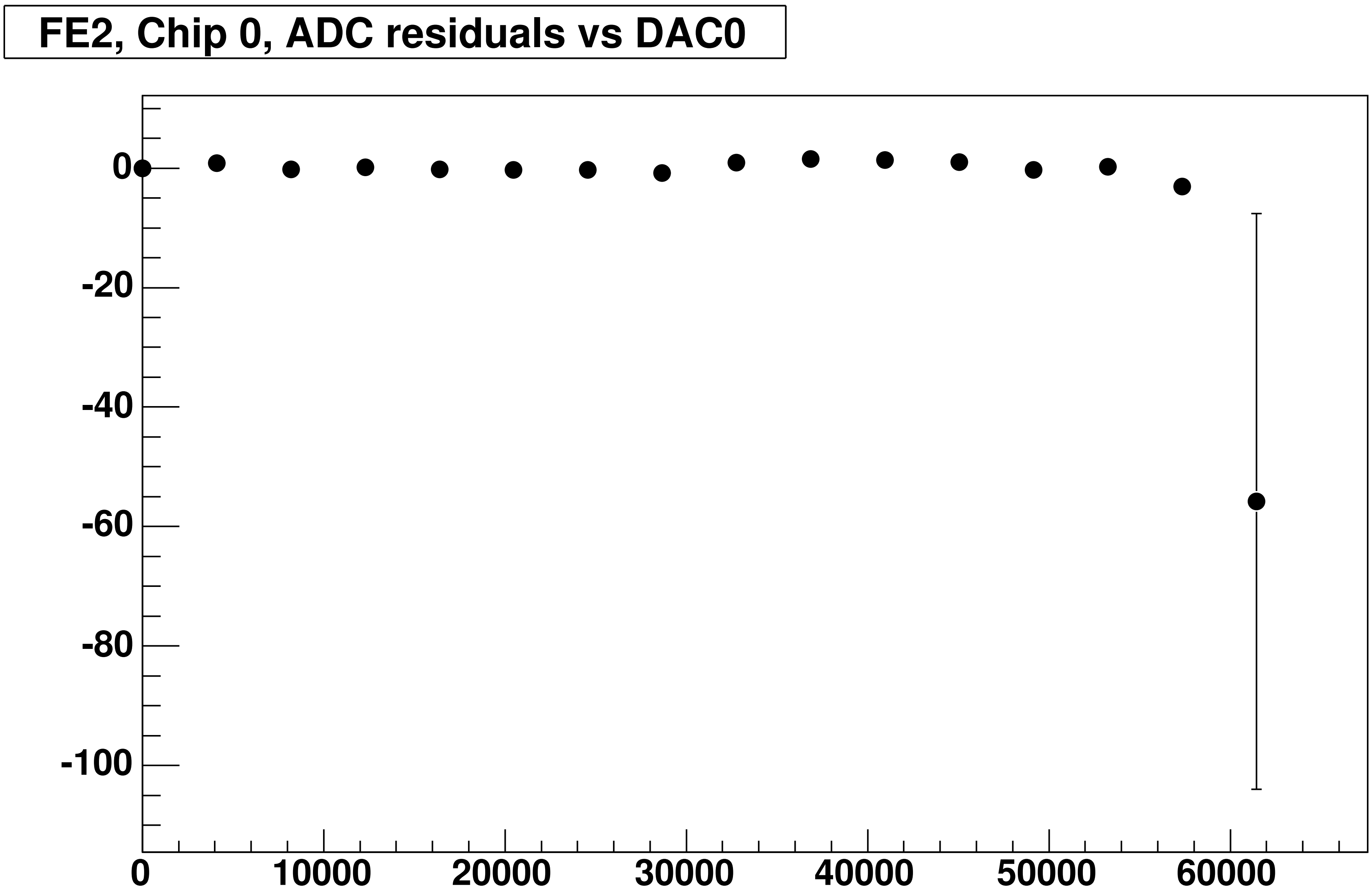

FE1, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



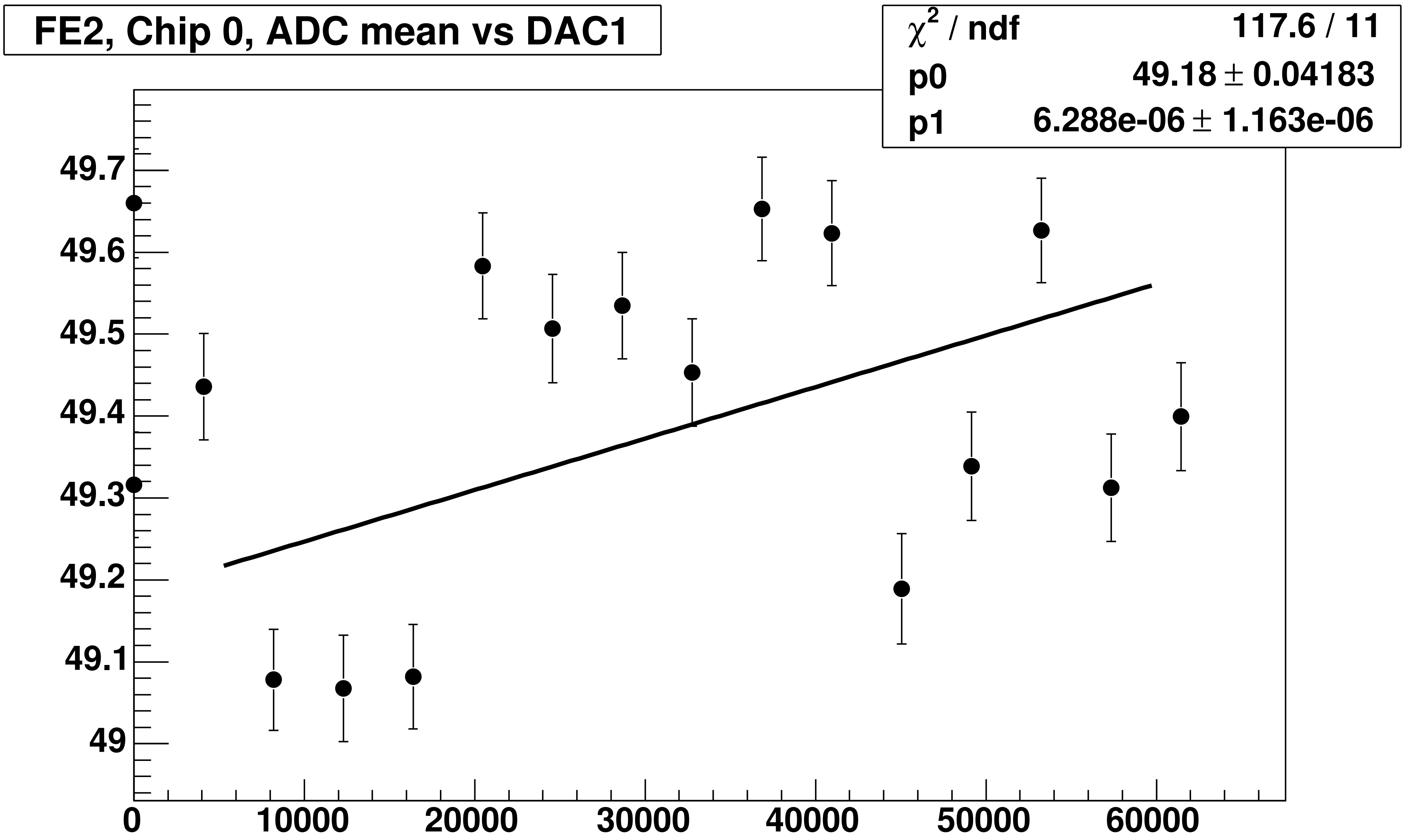
FE2, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2003 / 11
p0 48.21 ± 0.04284
p1 0.4508 ± 1.384e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

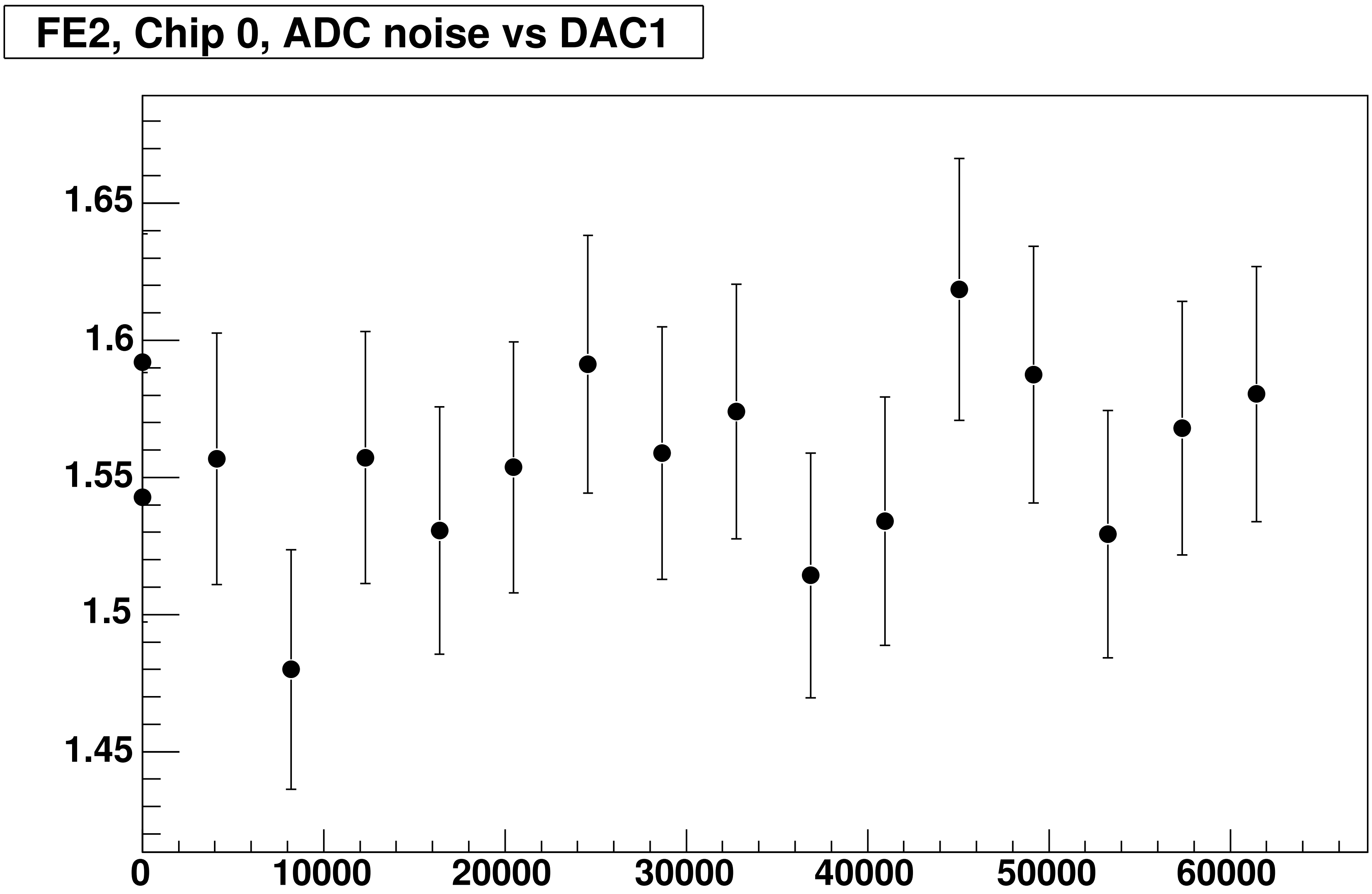


FE2, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

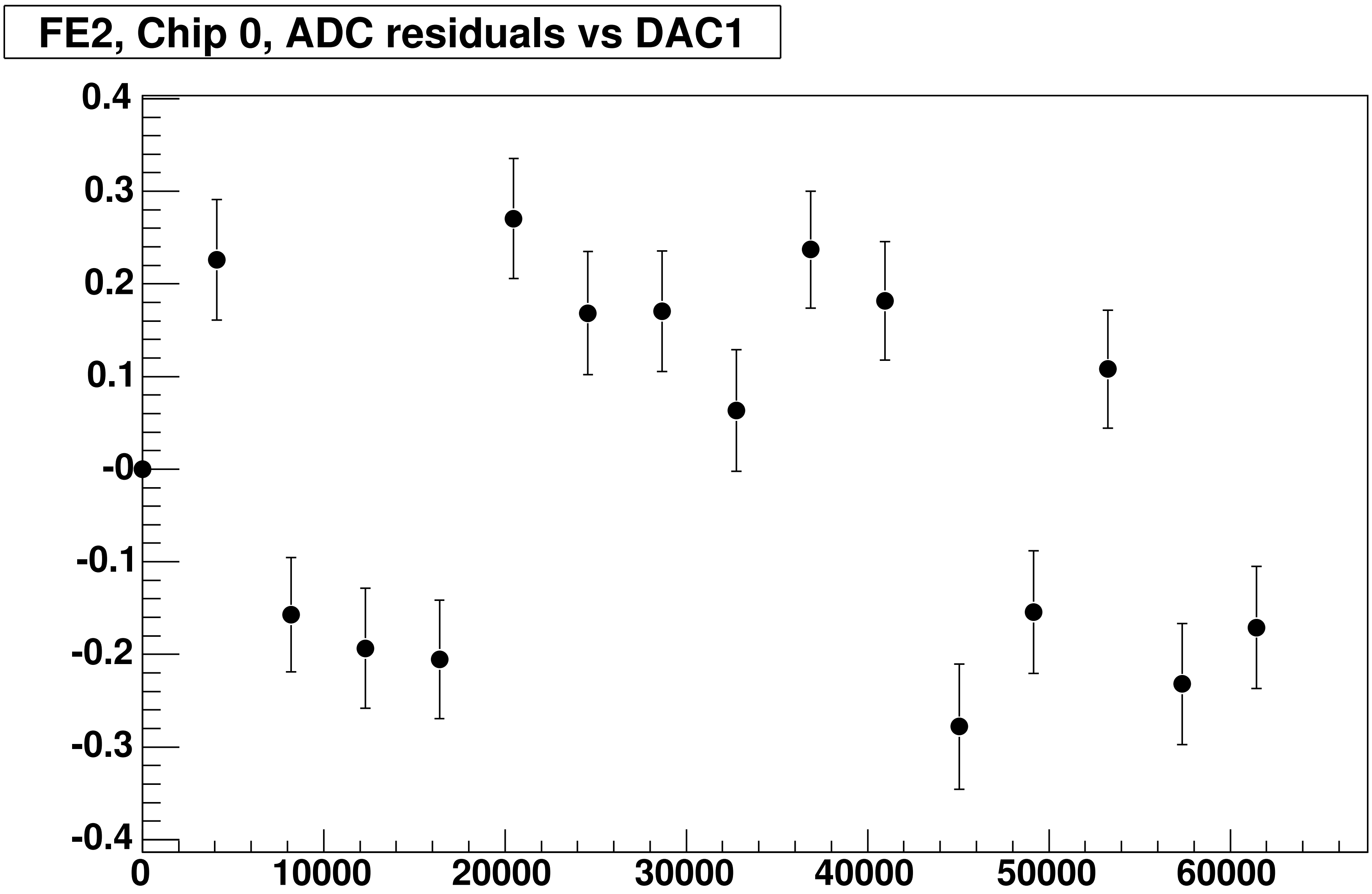


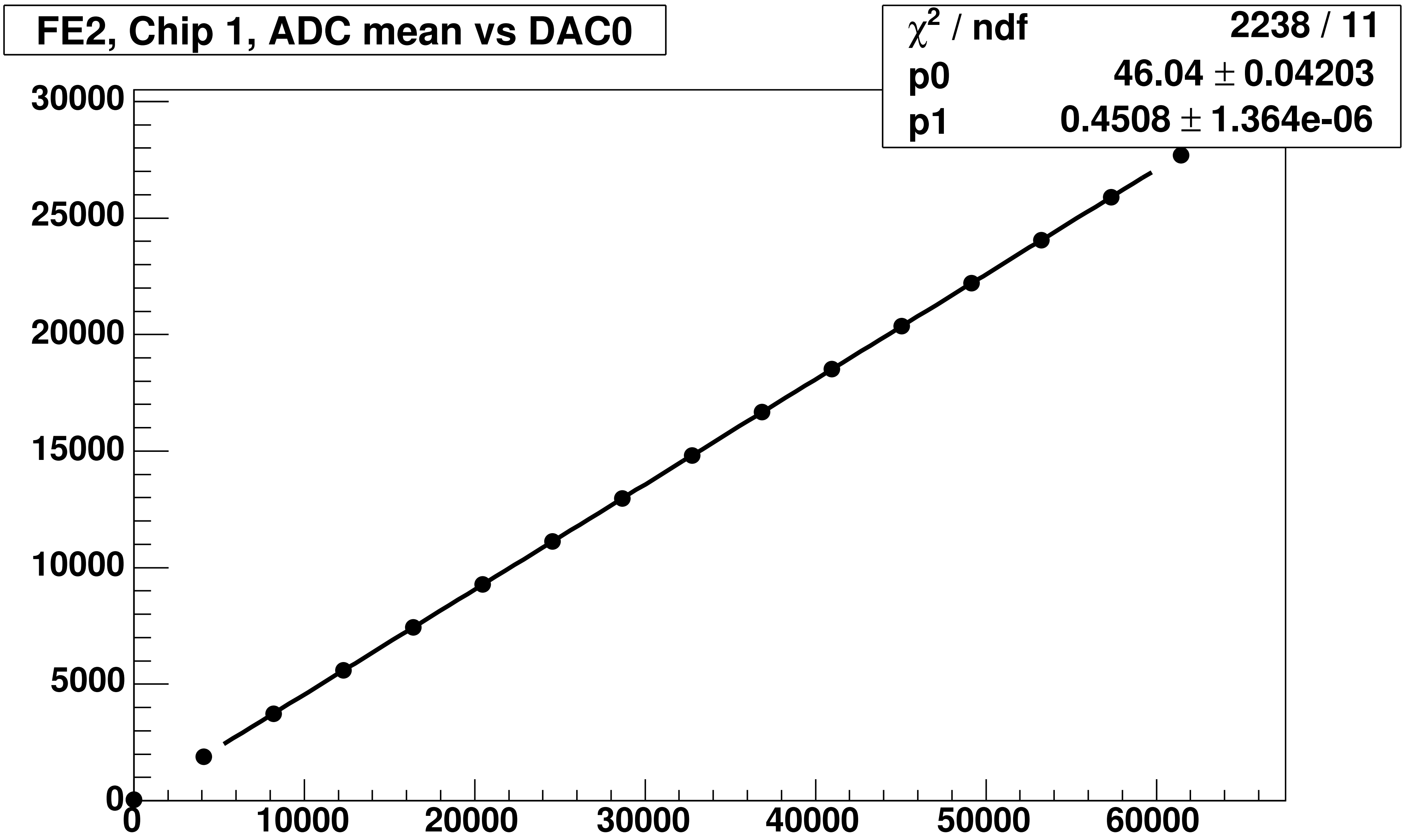
FE2, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE2, Chip 0, ADC mean vs DAC1
χ^2 / ndf 117.6 / 11
p0 49.18 ± 0.04183
p1 6.288e-06 ± 1.163e-06
49
49.1
49.2
49.3
49.4
49.5
49.6
49.7
0
10000
20000
30000
40000
50000
60000

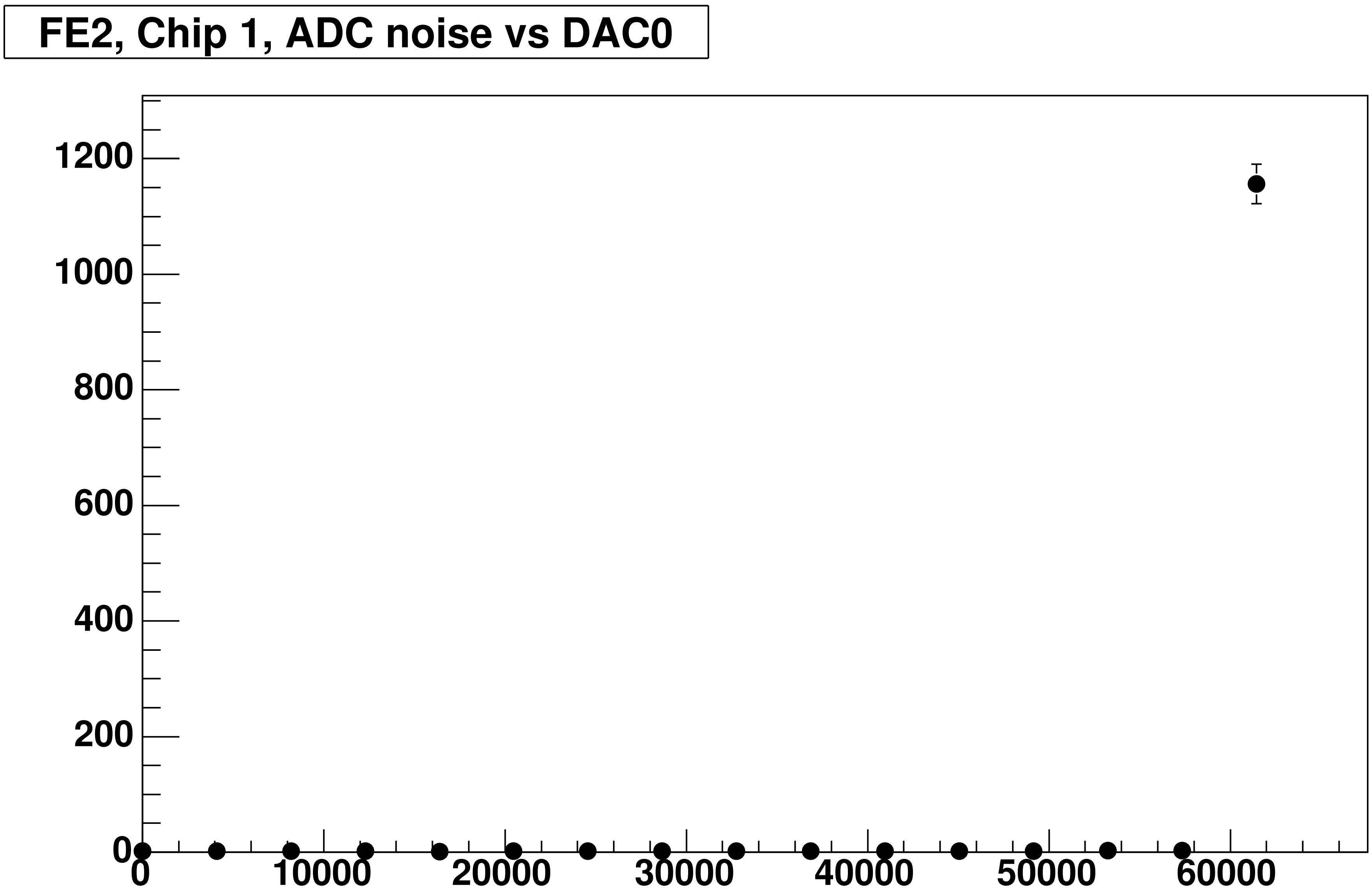


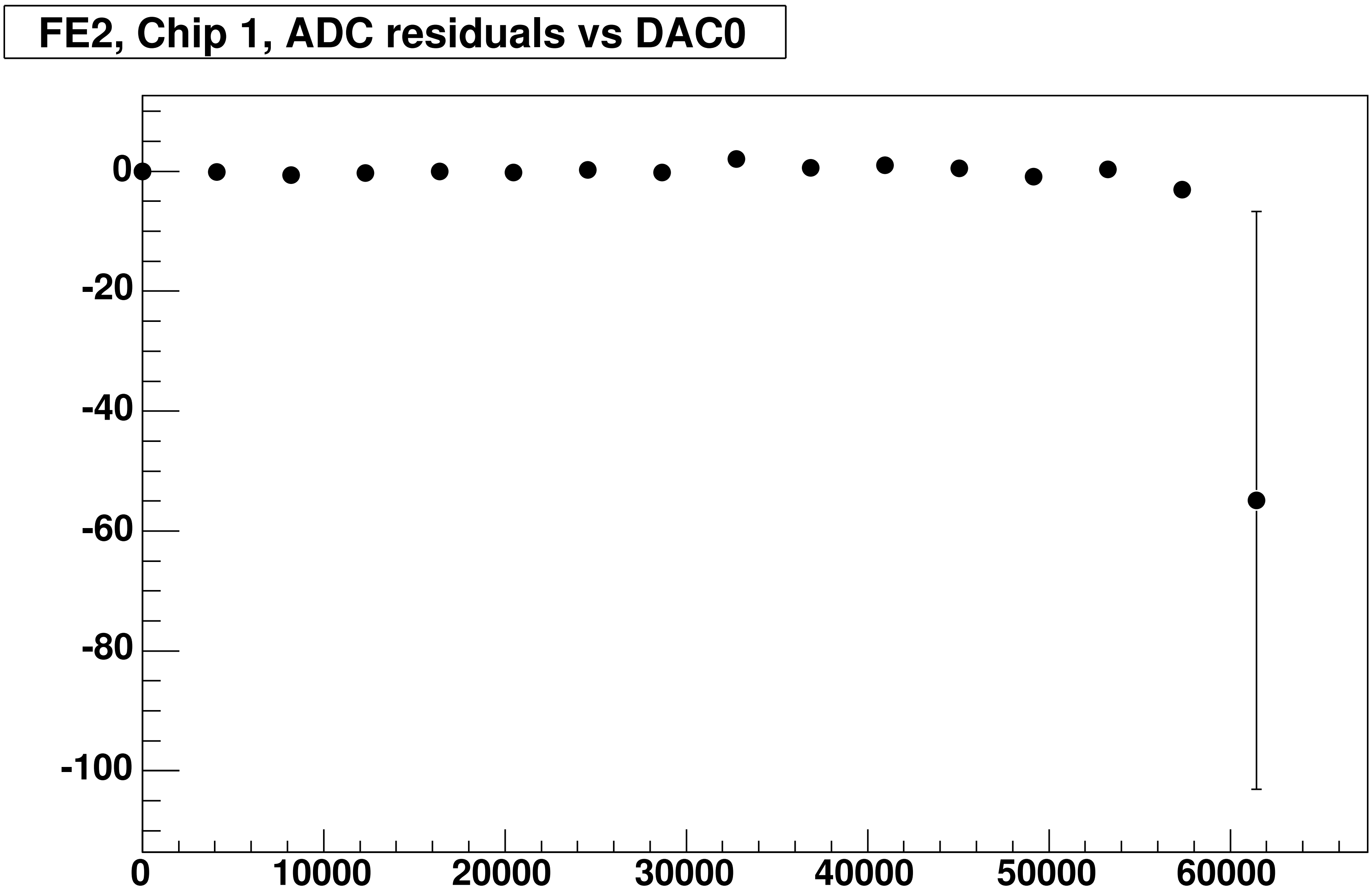
FE2, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

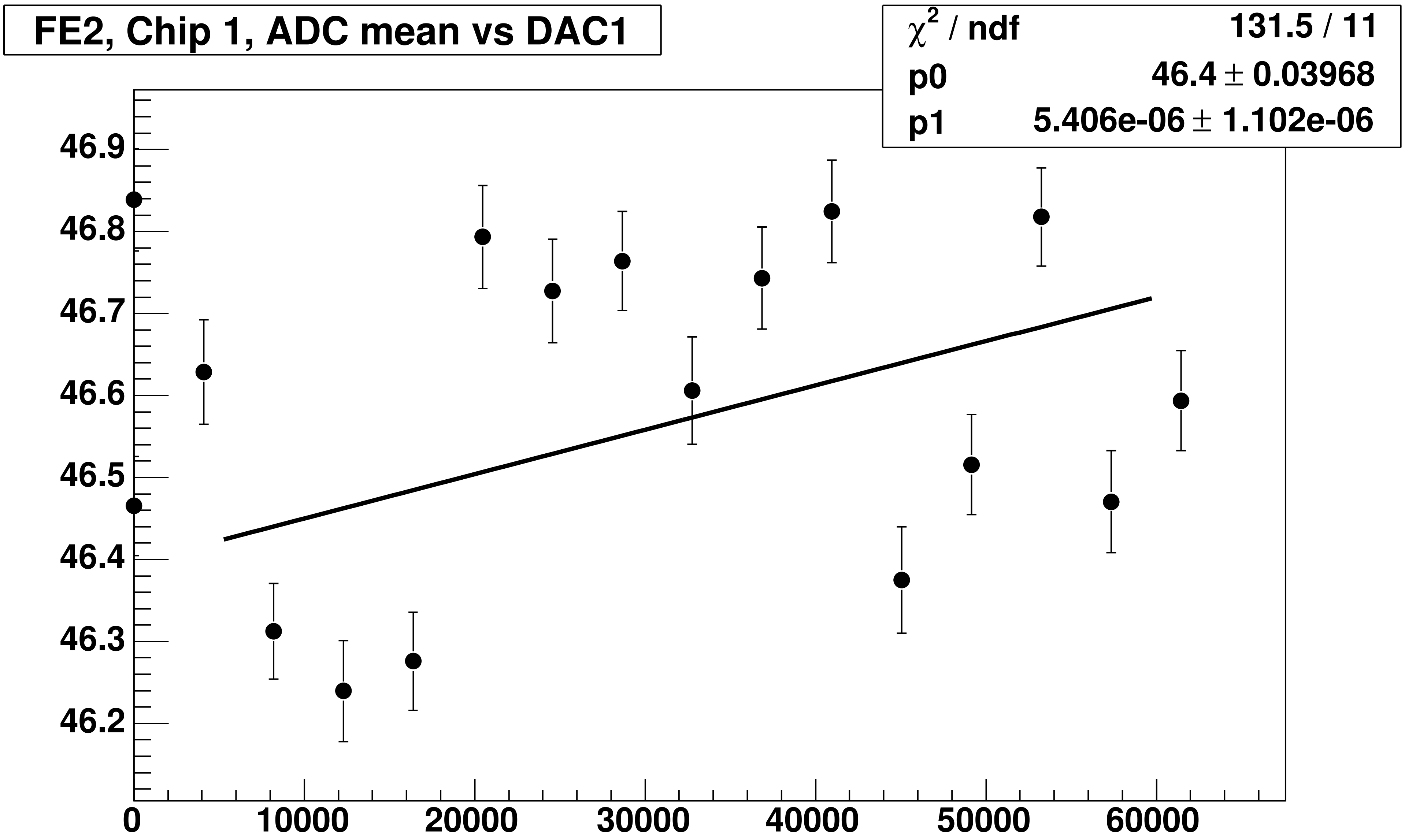

FE2, Chip 0, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

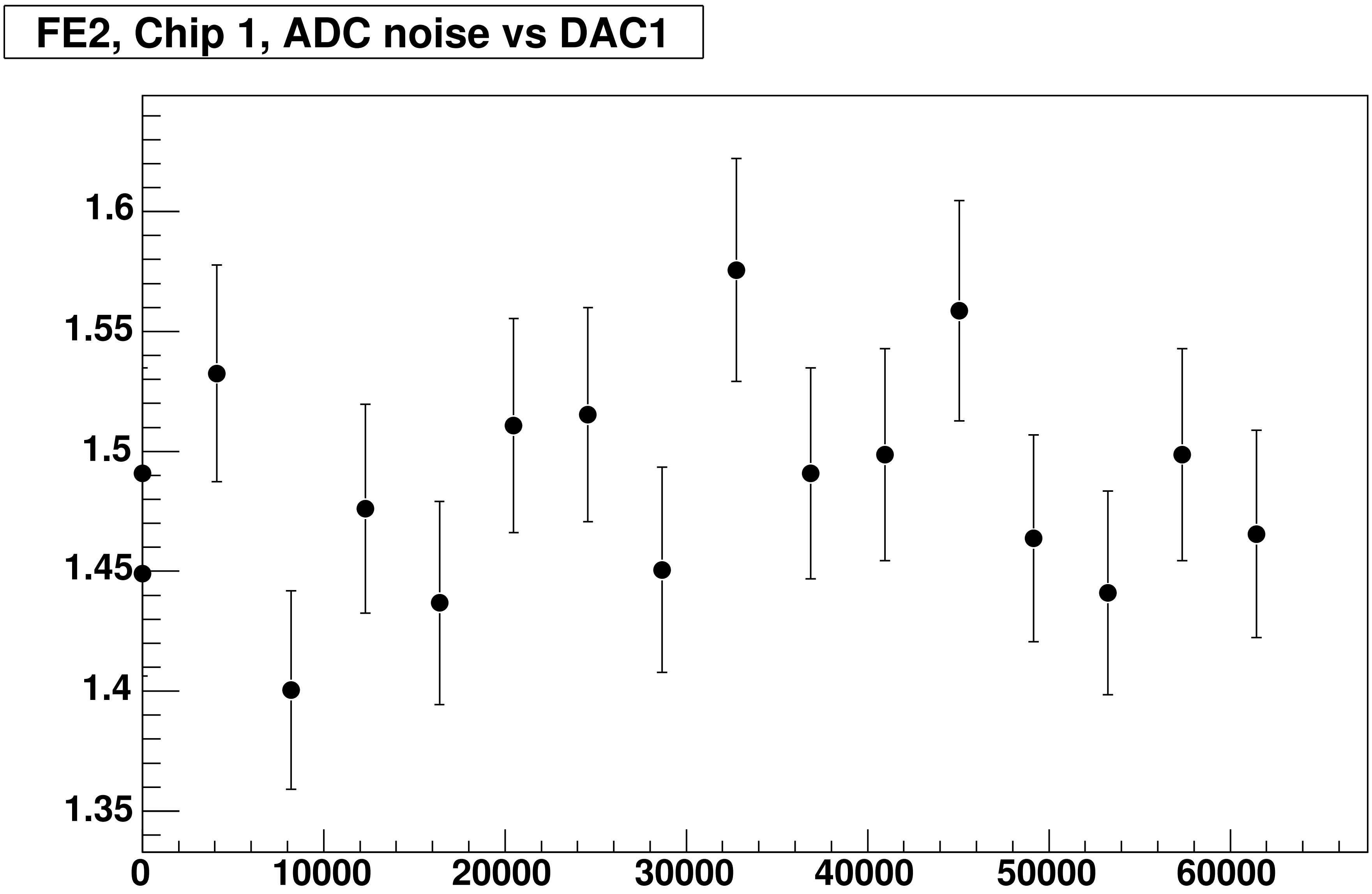


FE2, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2238 / 11
p0 46.04 ± 0.04203
p1 0.4508 ± 1.364e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

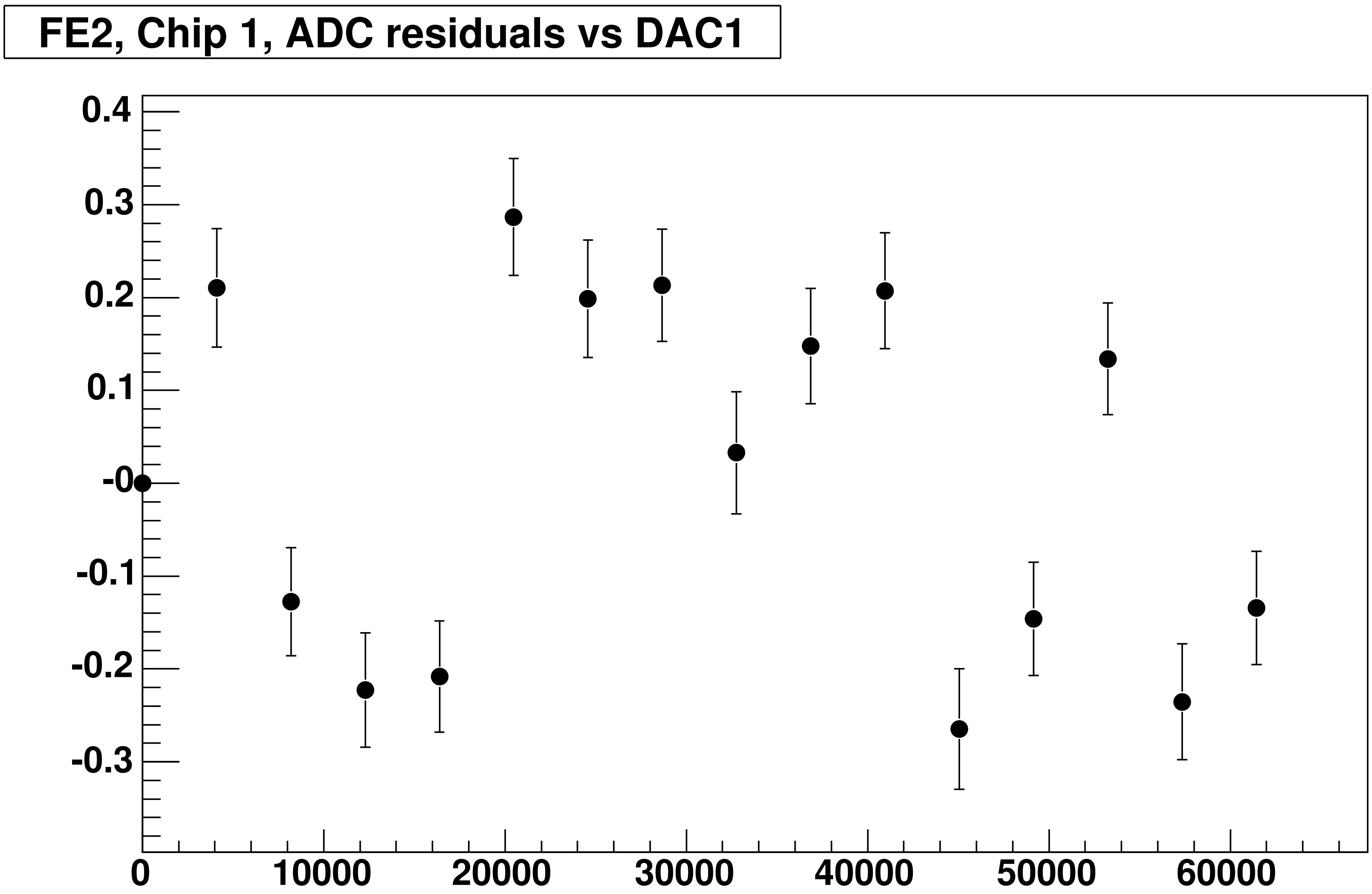

FE2, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

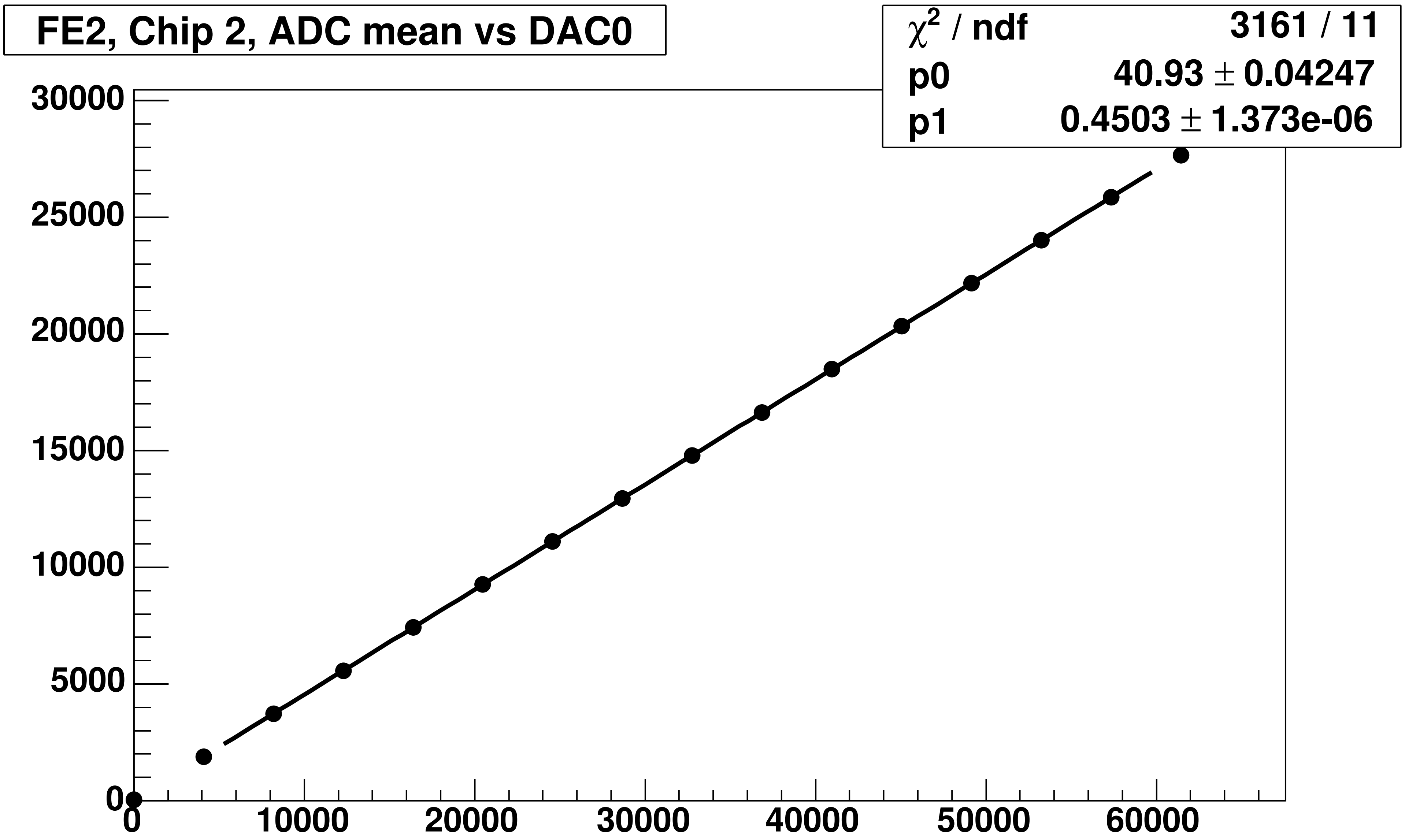

FE2, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

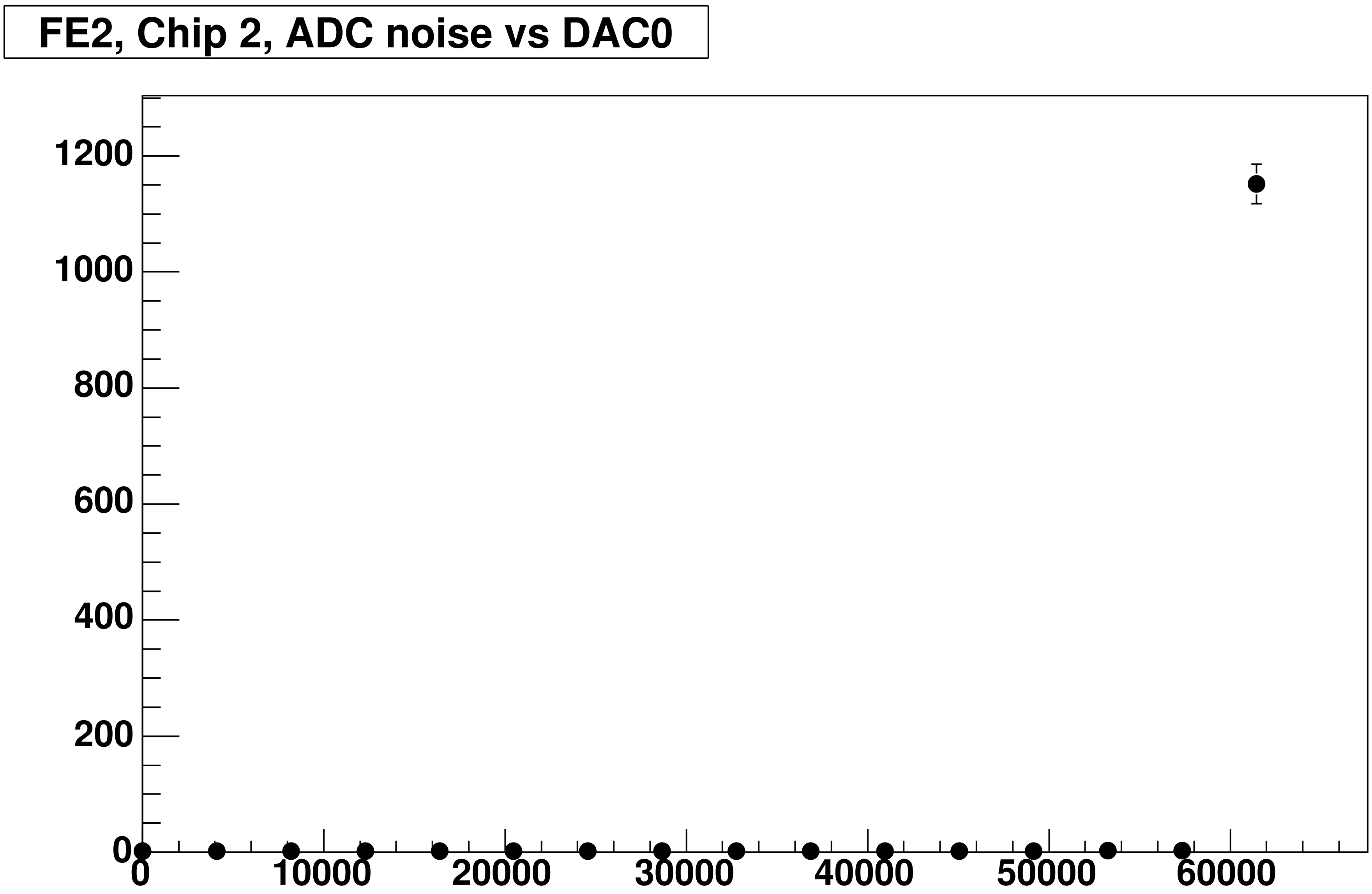

FE2, Chip 1, ADC mean vs DAC1
χ^2 / ndf 131.5 / 11
p0 46.4 ± 0.03968
p1 5.406e-06 ± 1.102e-06
46.9
46.8
46.7
46.6
46.5
46.4
46.3
46.2
0
10000
20000
30000
40000
50000
60000

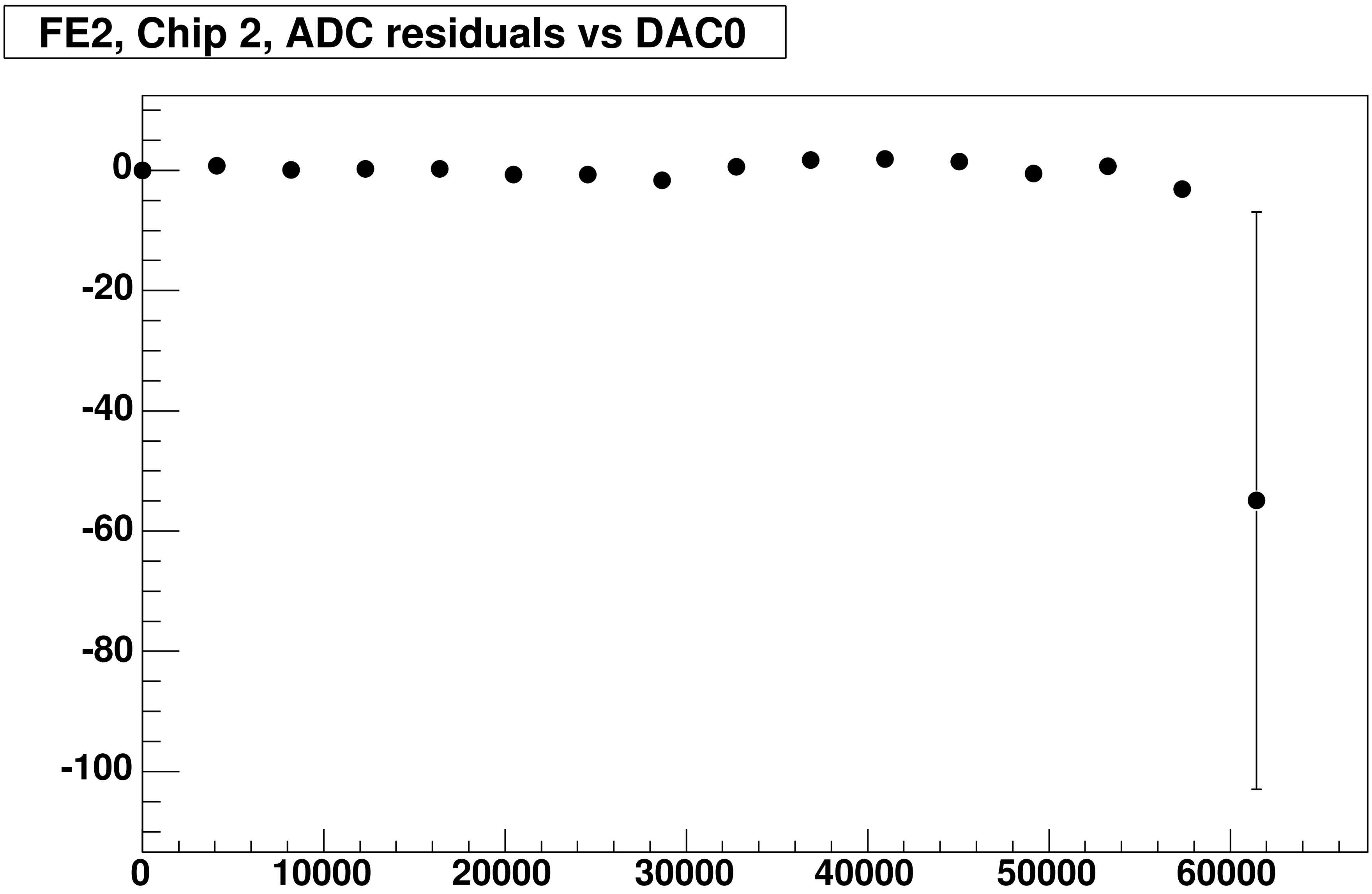


FE2, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

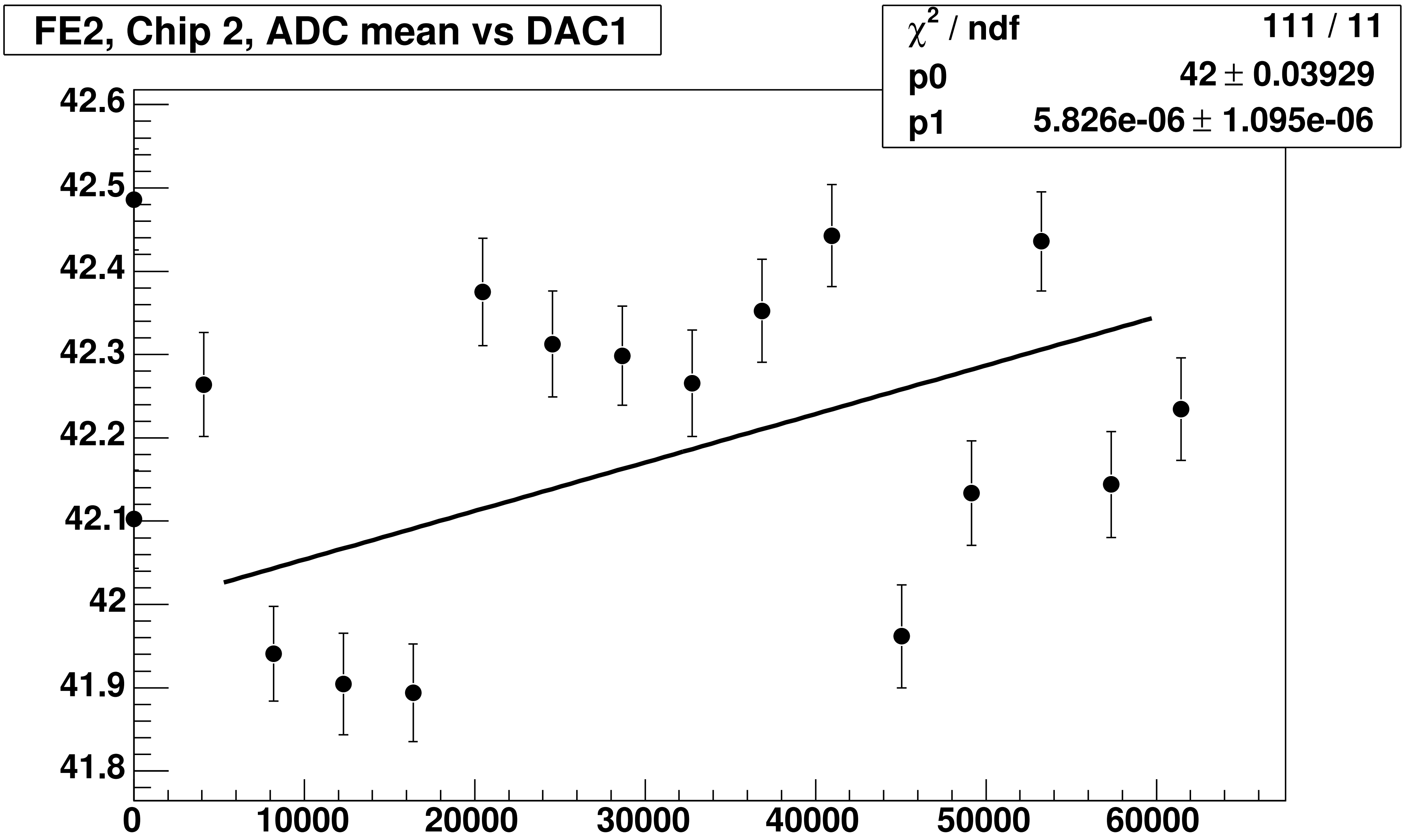

FE2, Chip 1, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

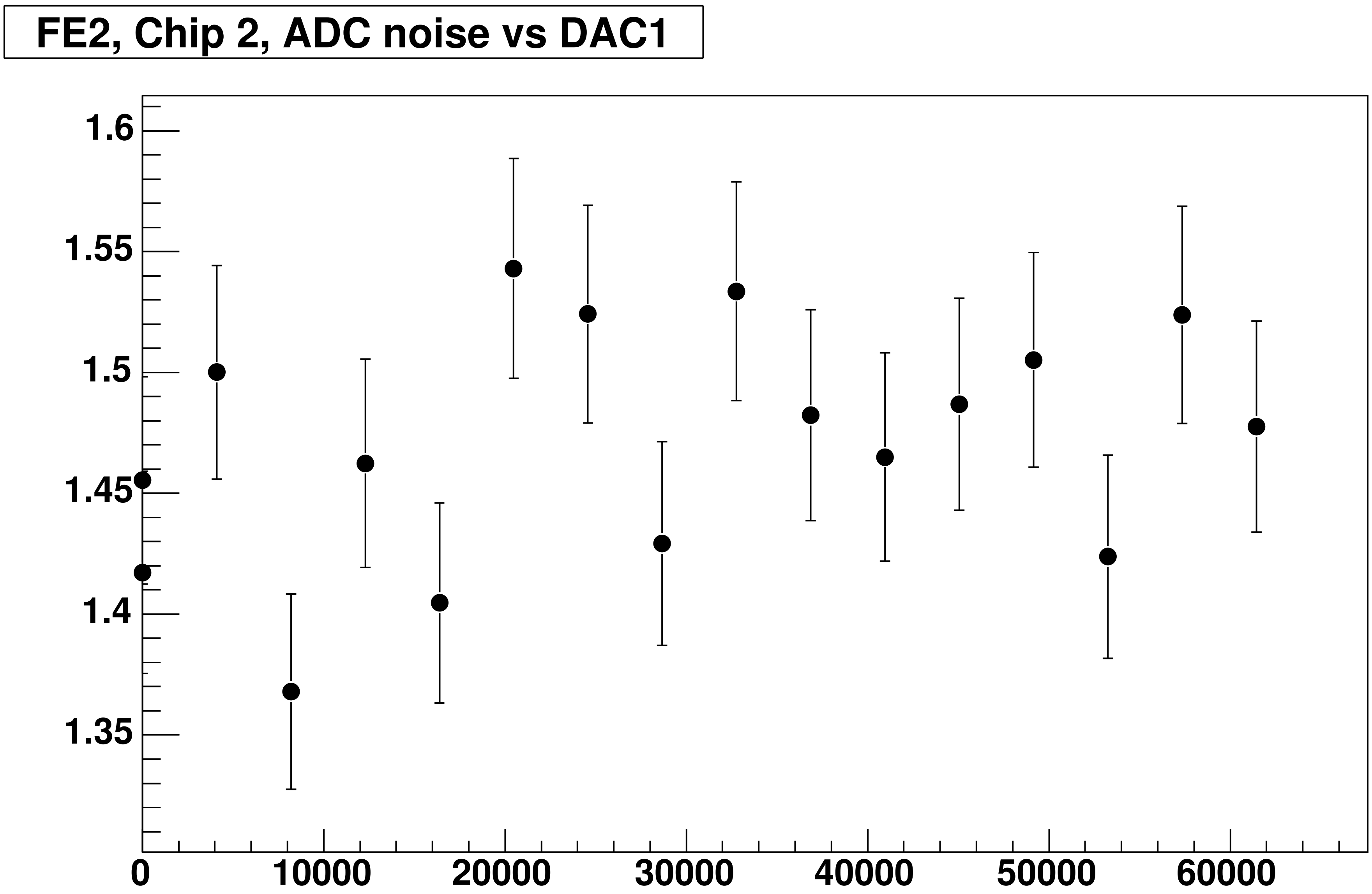

FE2, Chip 2, ADC mean vs DAC0
χ^2 / ndf 3161 / 11
p0 40.93 ± 0.04247
p1 0.4503 ± 1.373e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

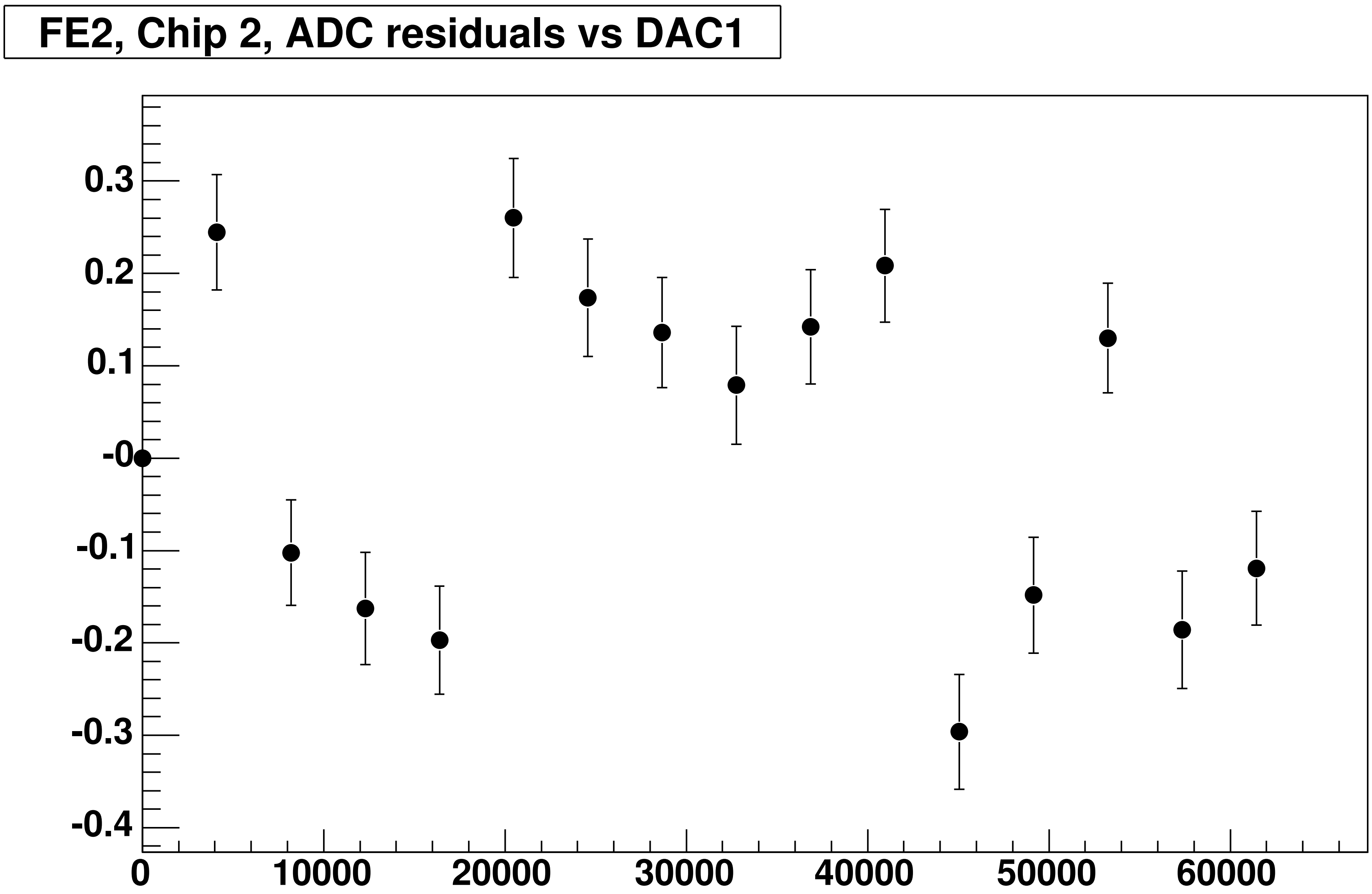

FE2, Chip 2, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

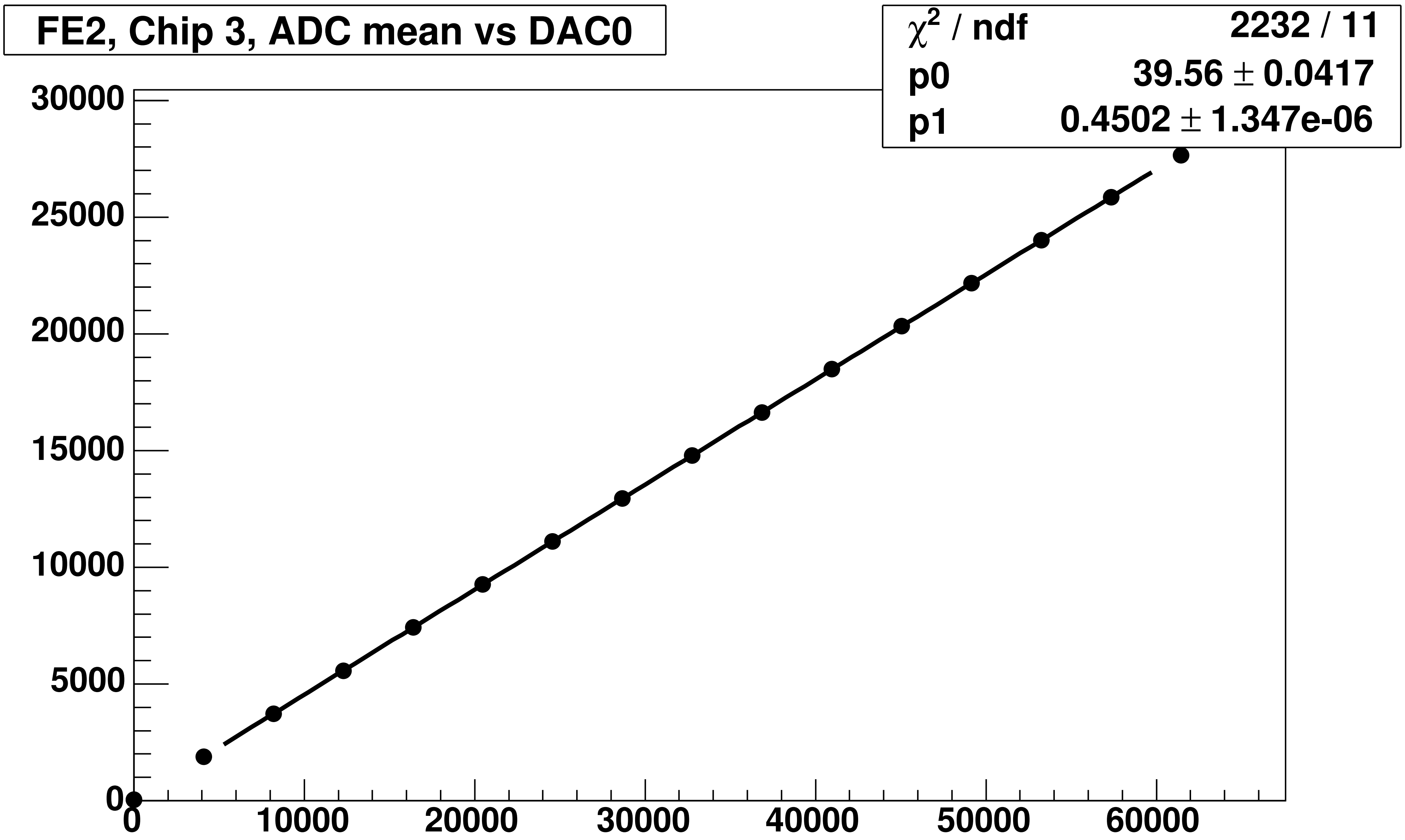


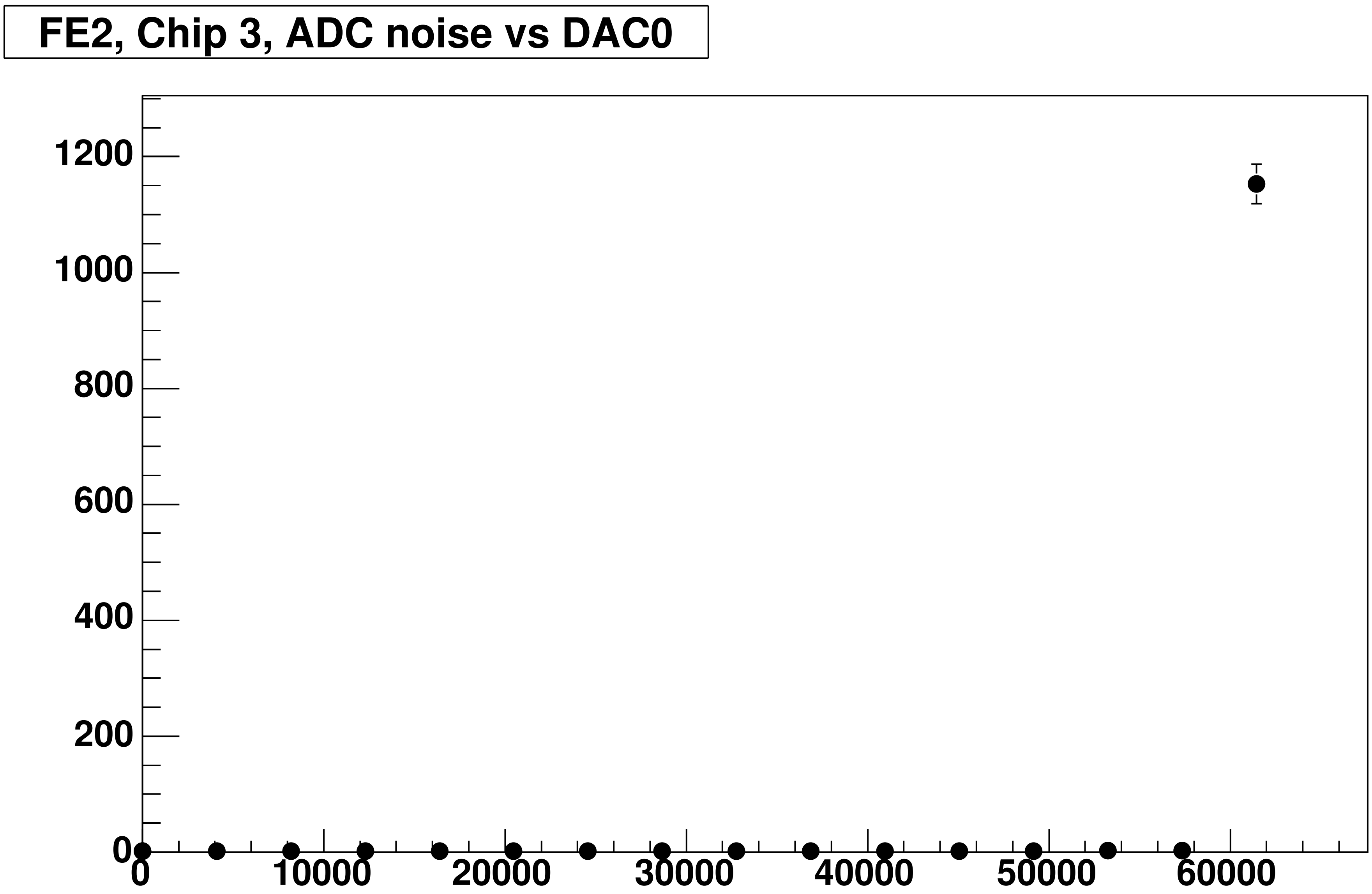
FE2, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

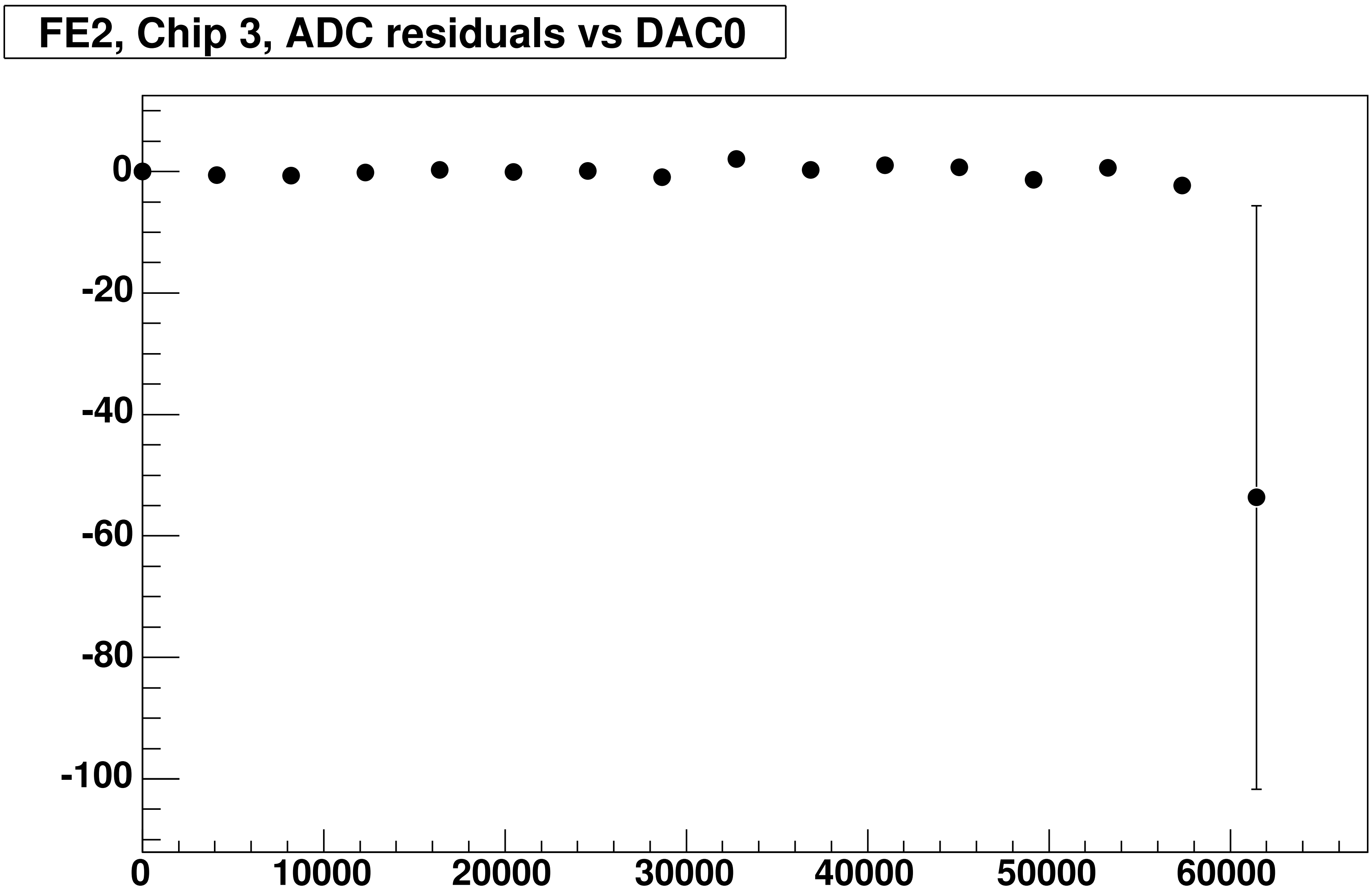

FE2, Chip 2, ADC mean vs DAC1
χ² / ndf 111 / 11
p0 42 ± 0.03929
p1 5.826e-06 ± 1.095e-06
42.6
42.5
42.4
42.3
42.2
42.1
42
41.9
41.8
0
10000
20000
30000
40000
50000
60000

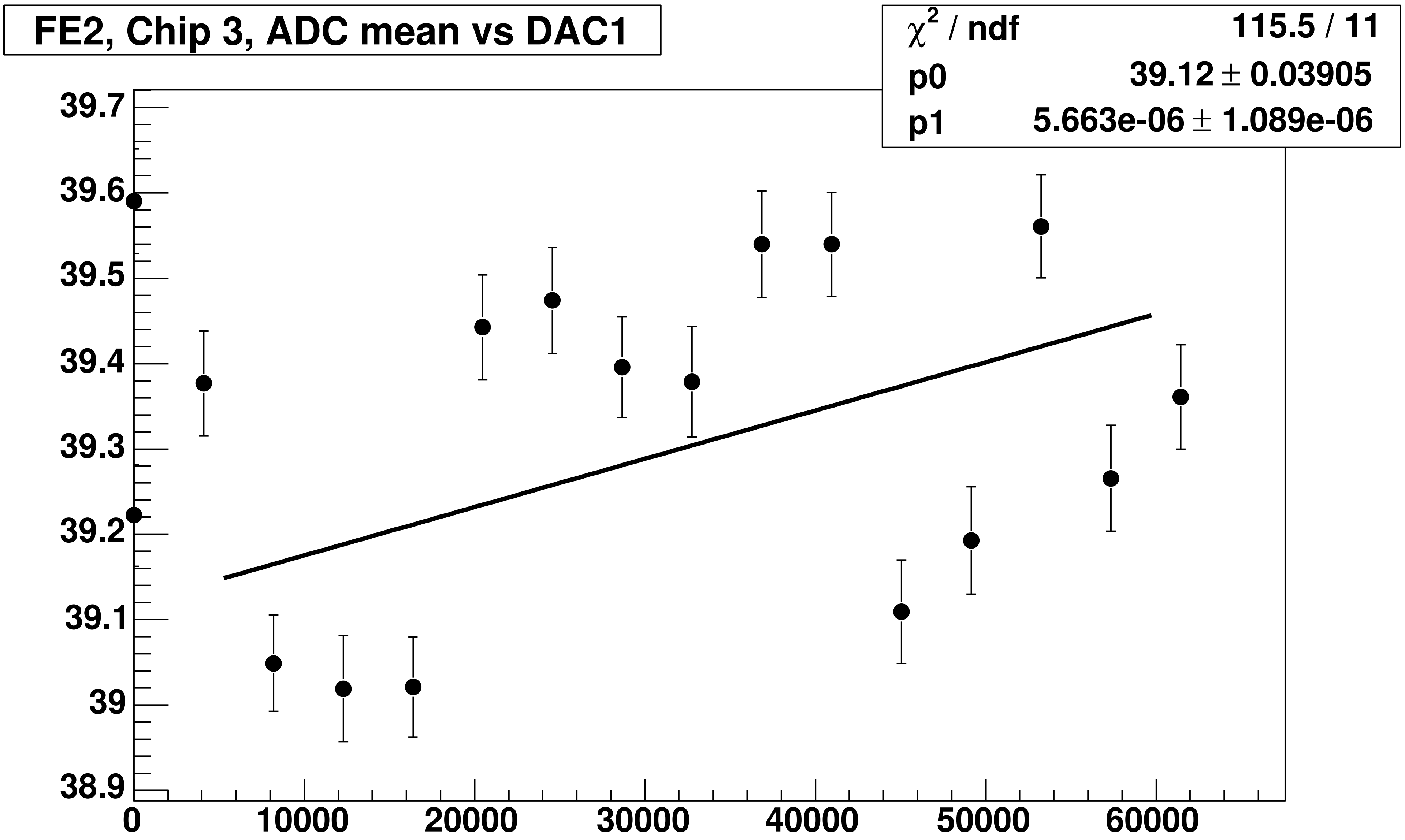

FE2, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

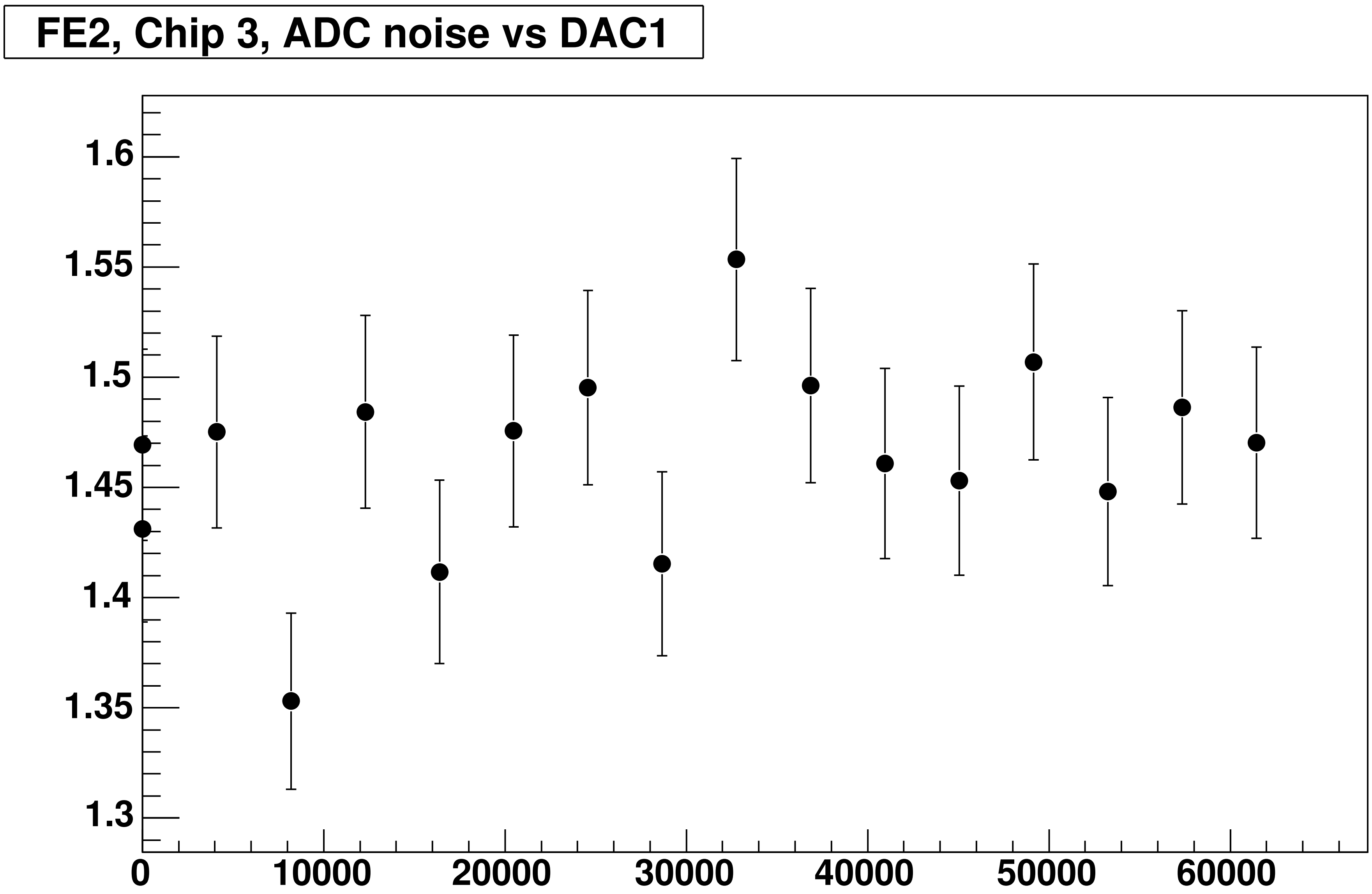

FE2, Chip 3, ADC mean vs DAC0
χ^2 / ndf 2232 / 11
p0 39.56 ± 0.0417
p1 0.4502 ± 1.347e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

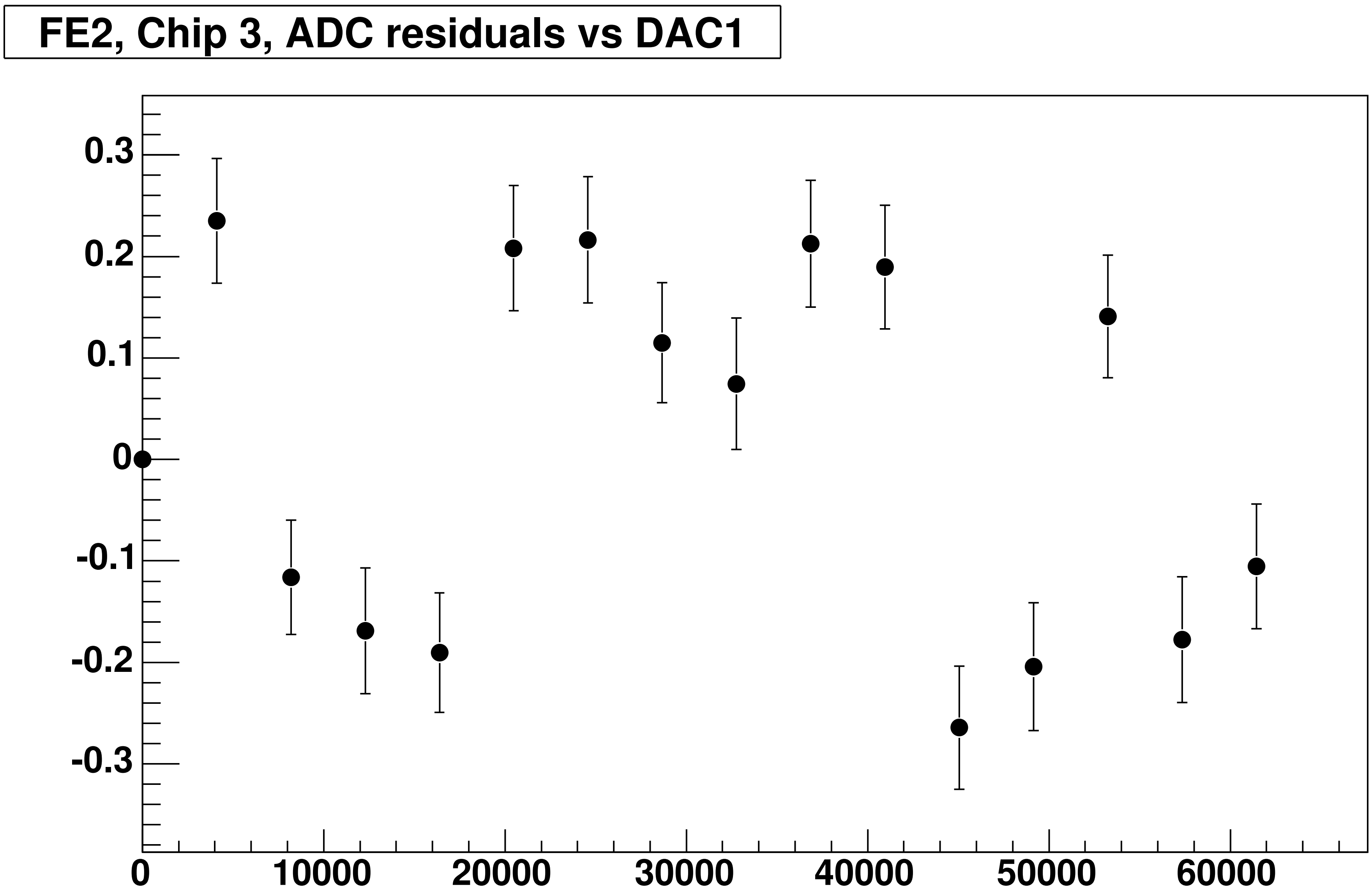

FE2, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

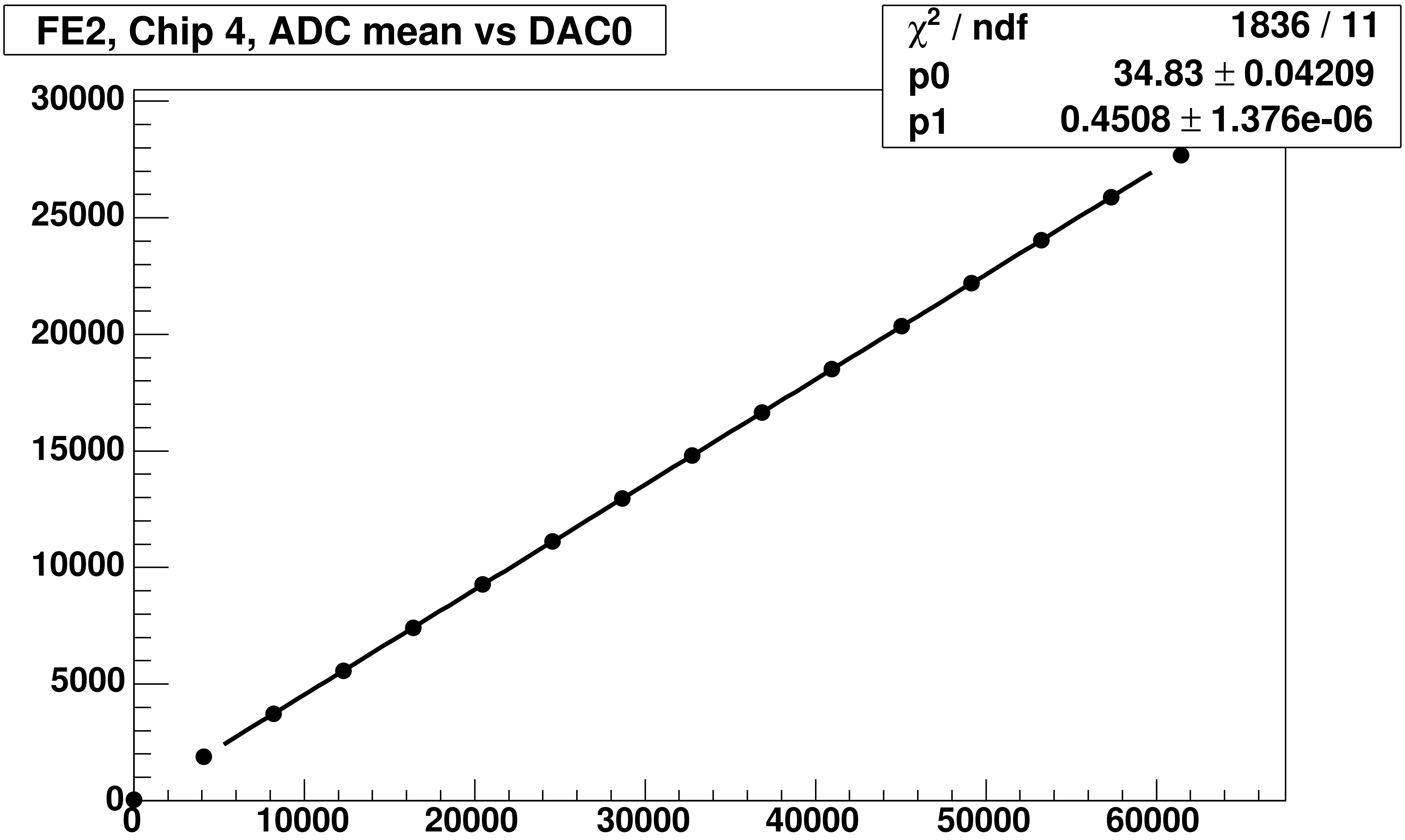

FE2, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

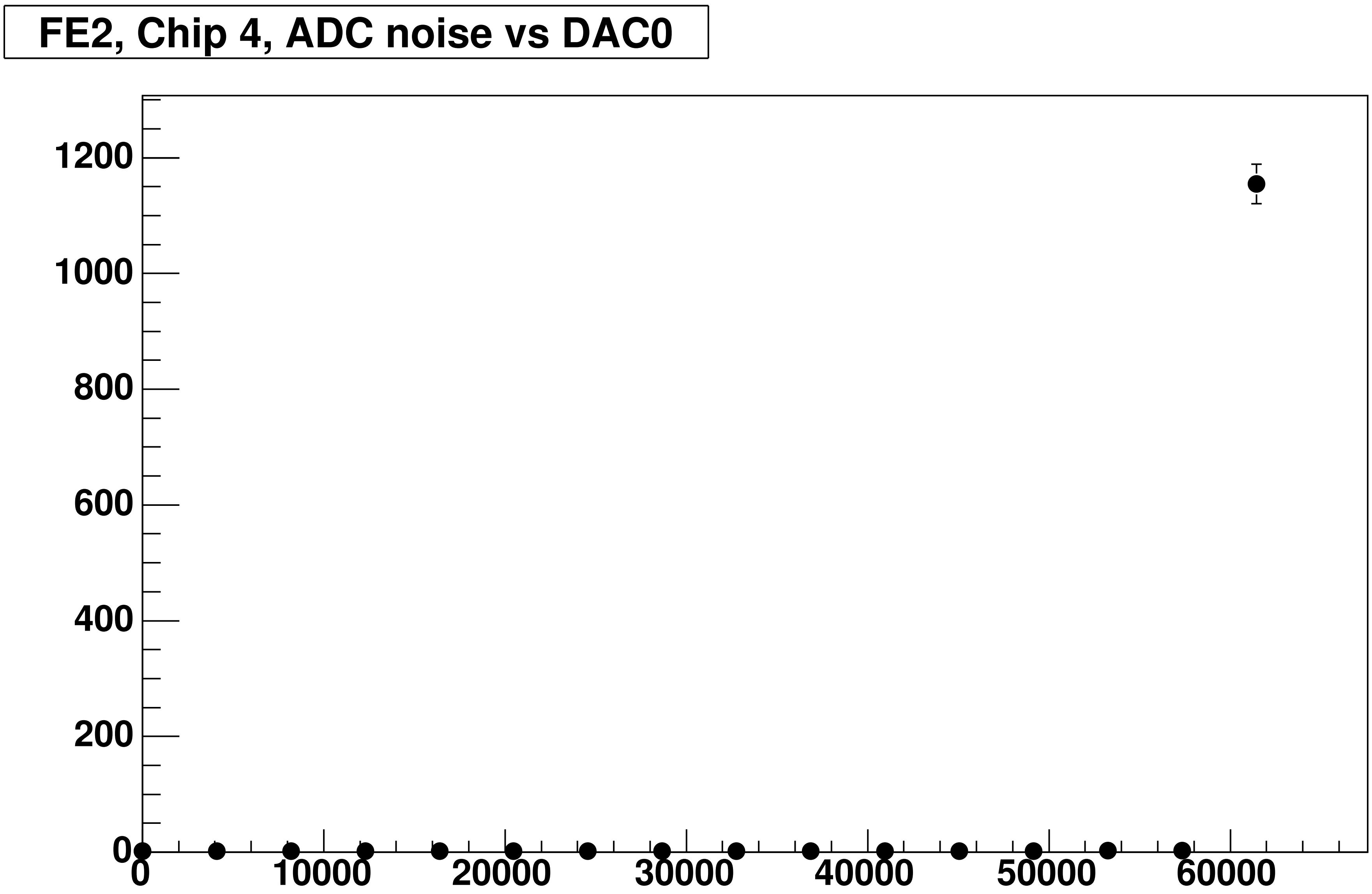


FE2, Chip 3, ADC mean vs DAC1
χ^2 / ndf 115.5 / 11
p0 39.12 ± 0.03905
p1 5.663e-06 ± 1.089e-06
39.7
39.6
39.5
39.4
39.3
39.2
39.1
39
38.9
0
10000
20000
30000
40000
50000
60000

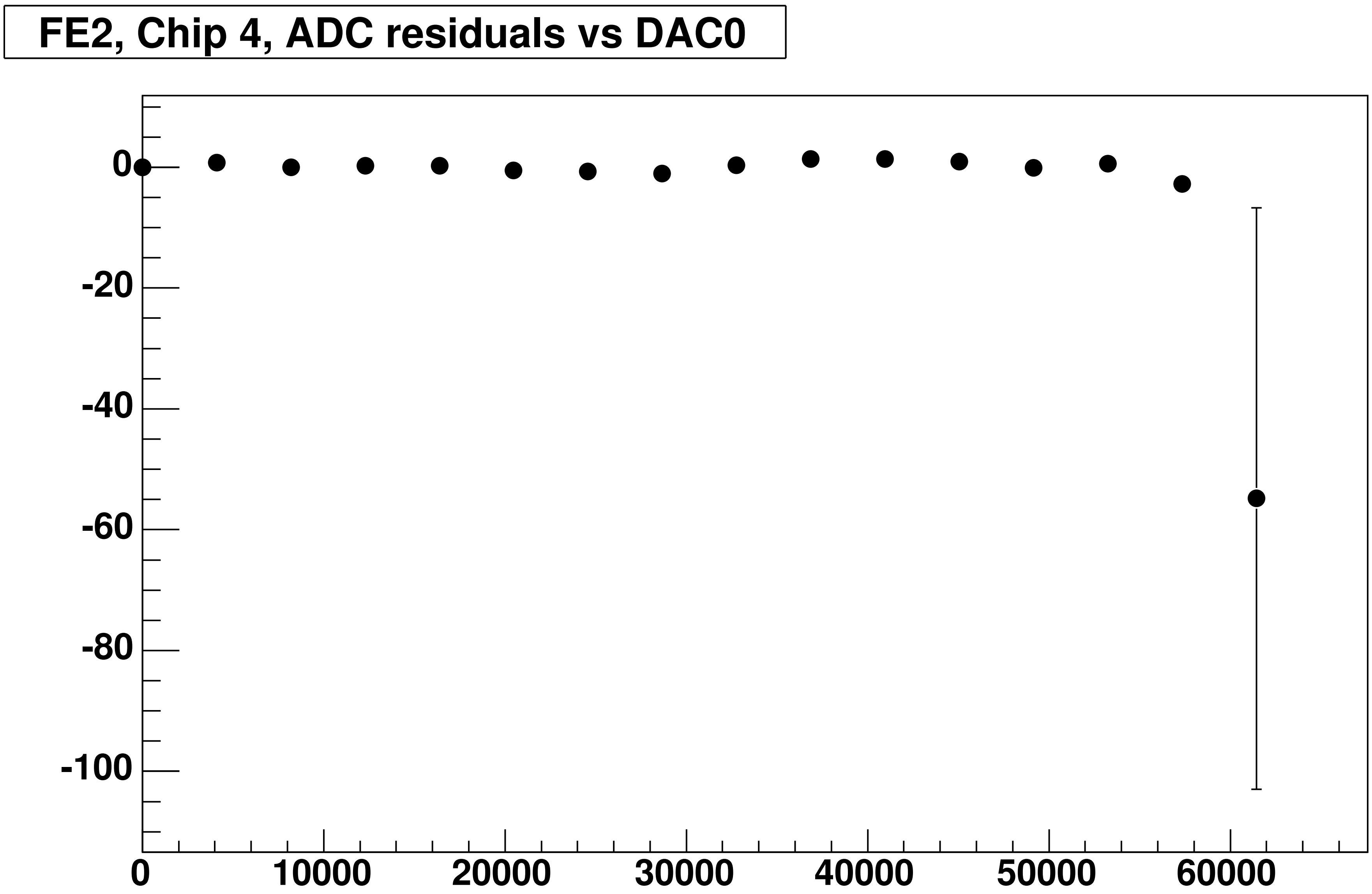

FE2, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


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

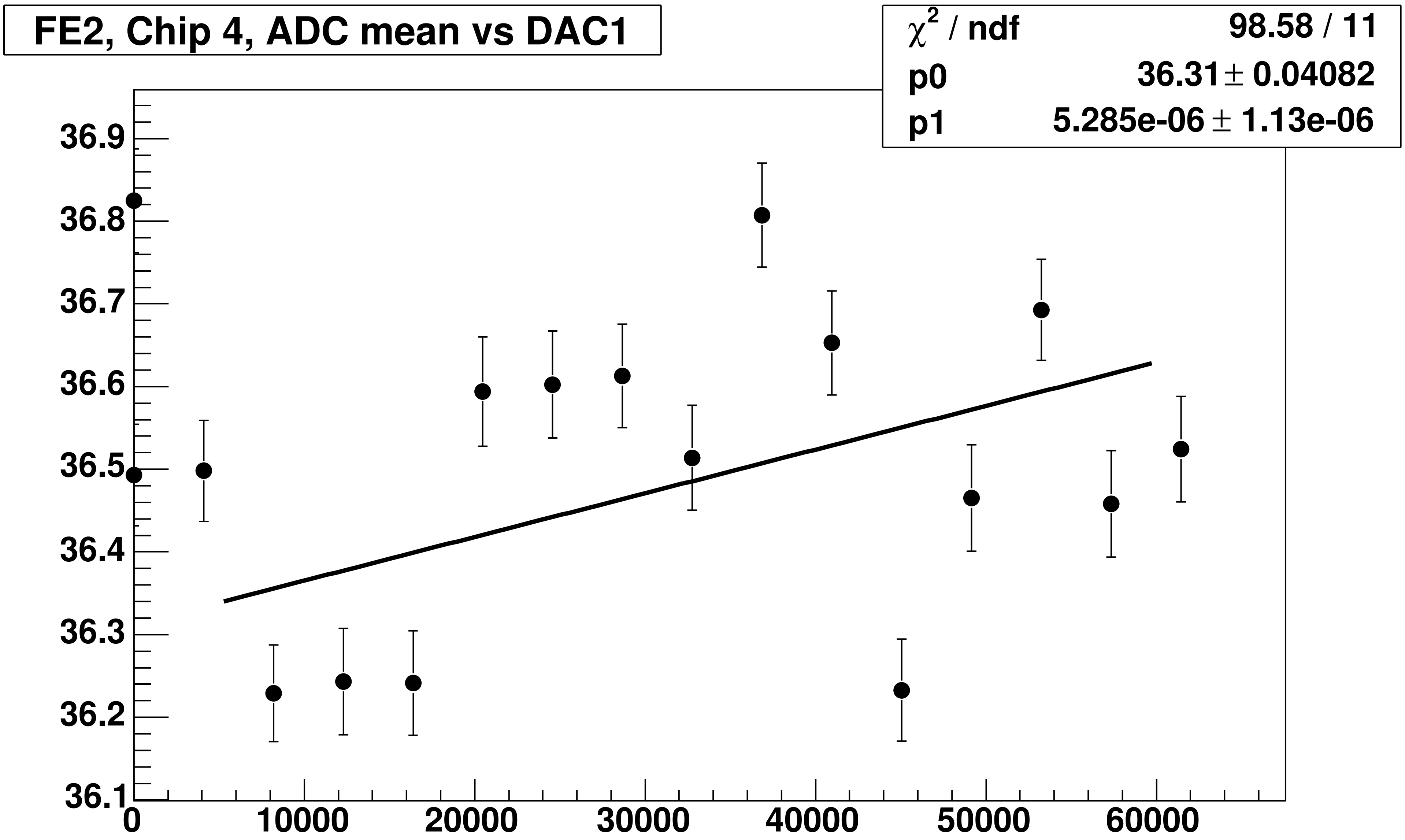

FE2, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1836 / 11
p0 34.83 ± 0.04209
p1 0.4508 ± 1.376e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

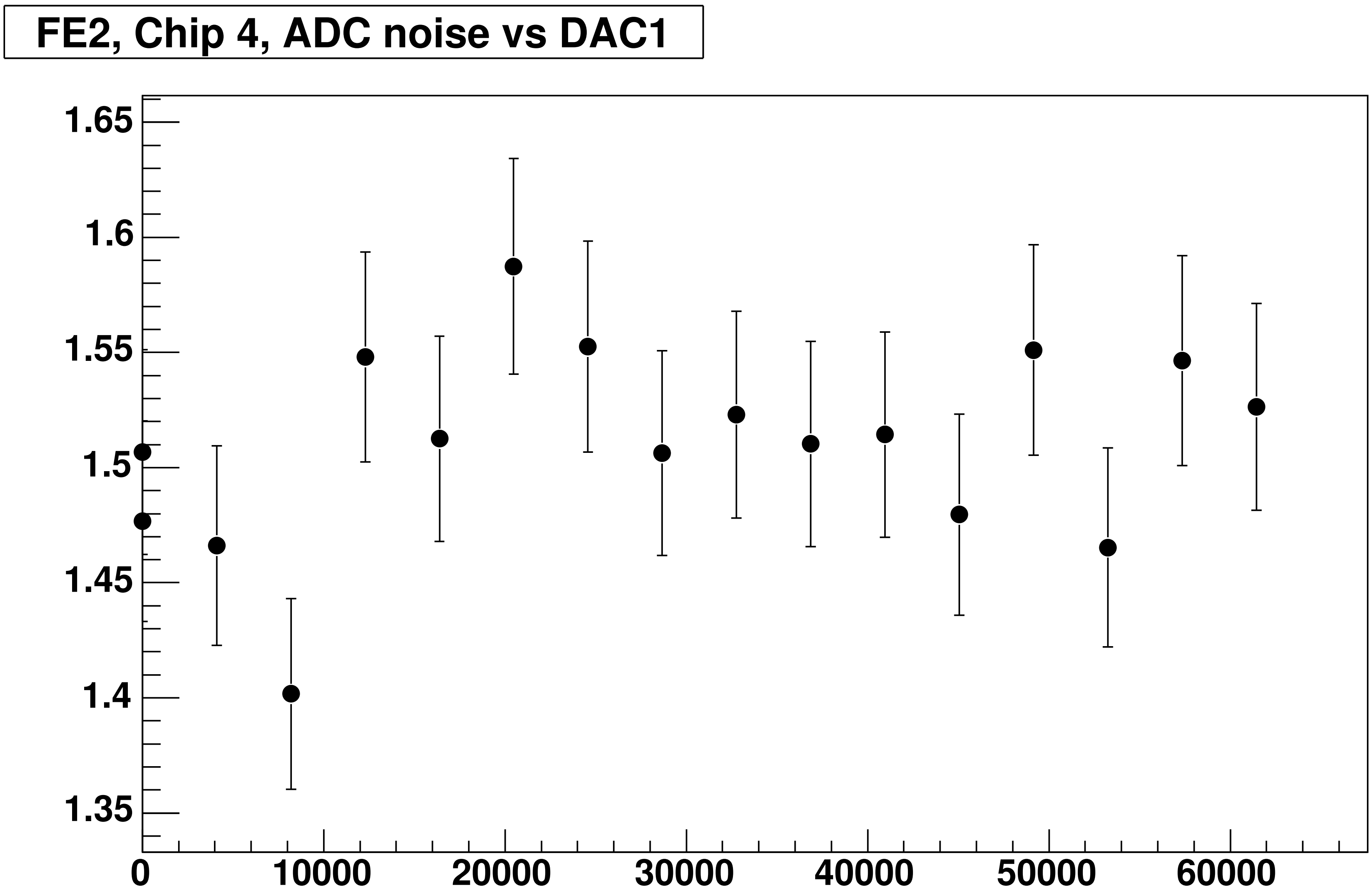


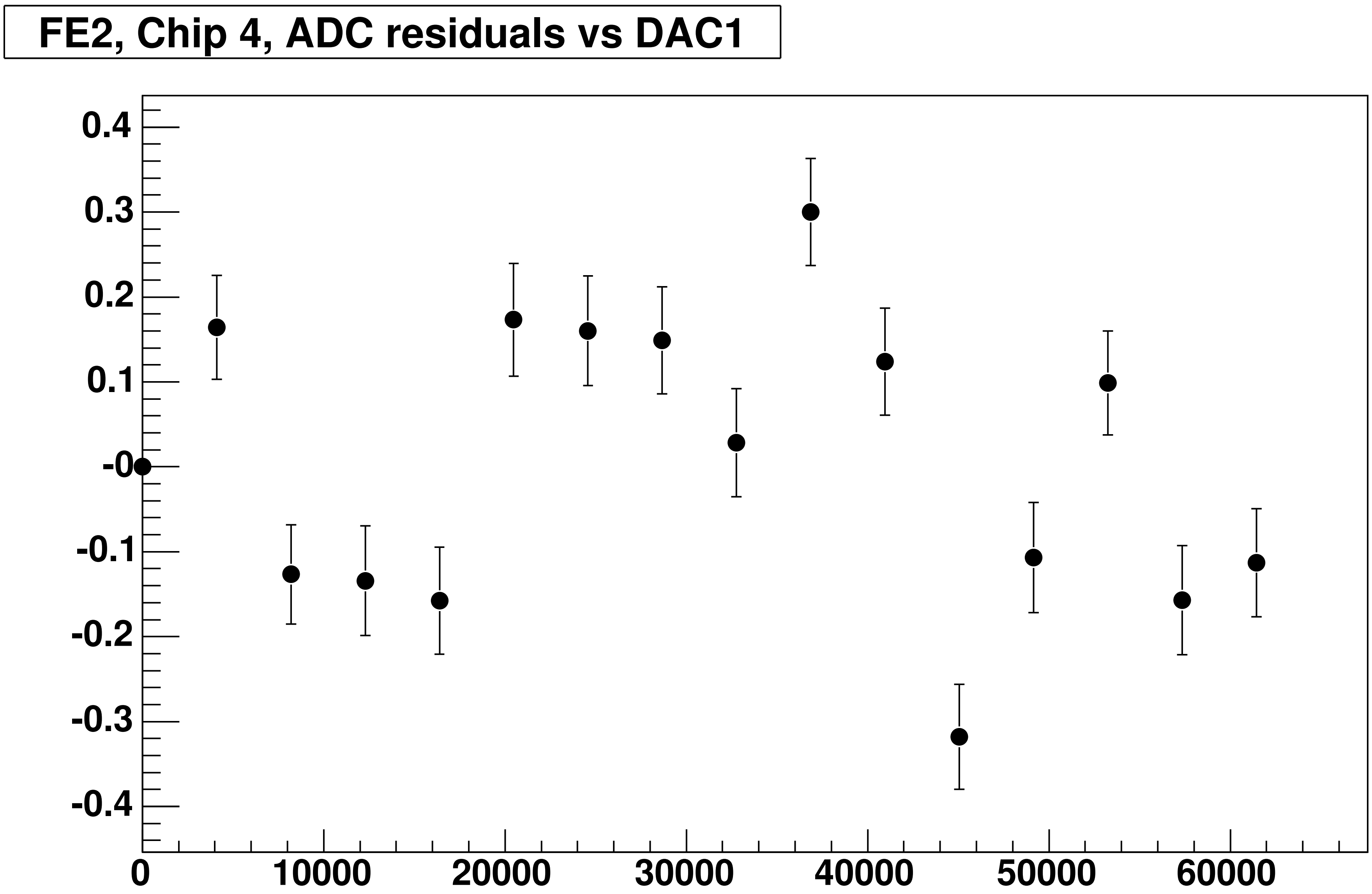
FE2, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

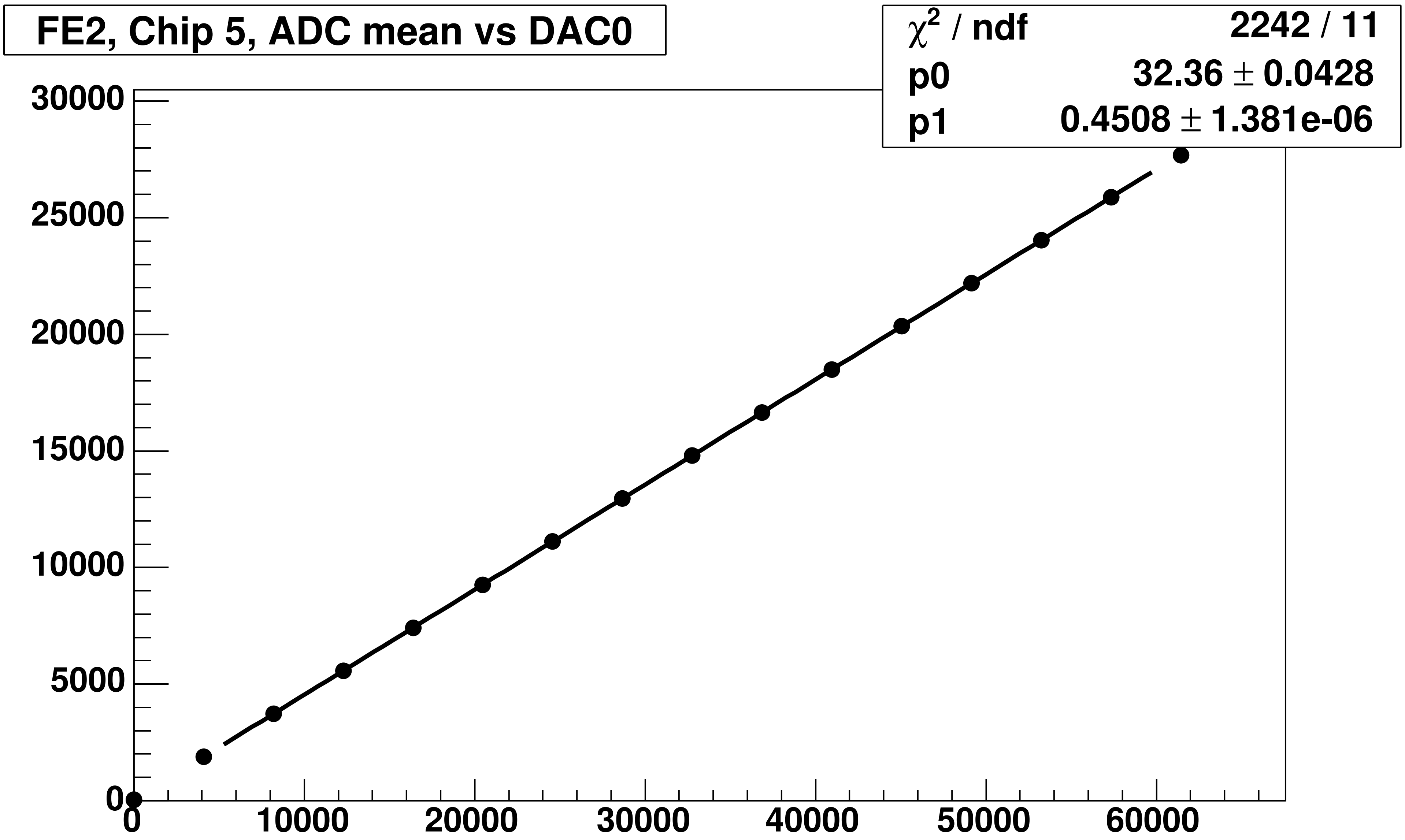


FE2, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

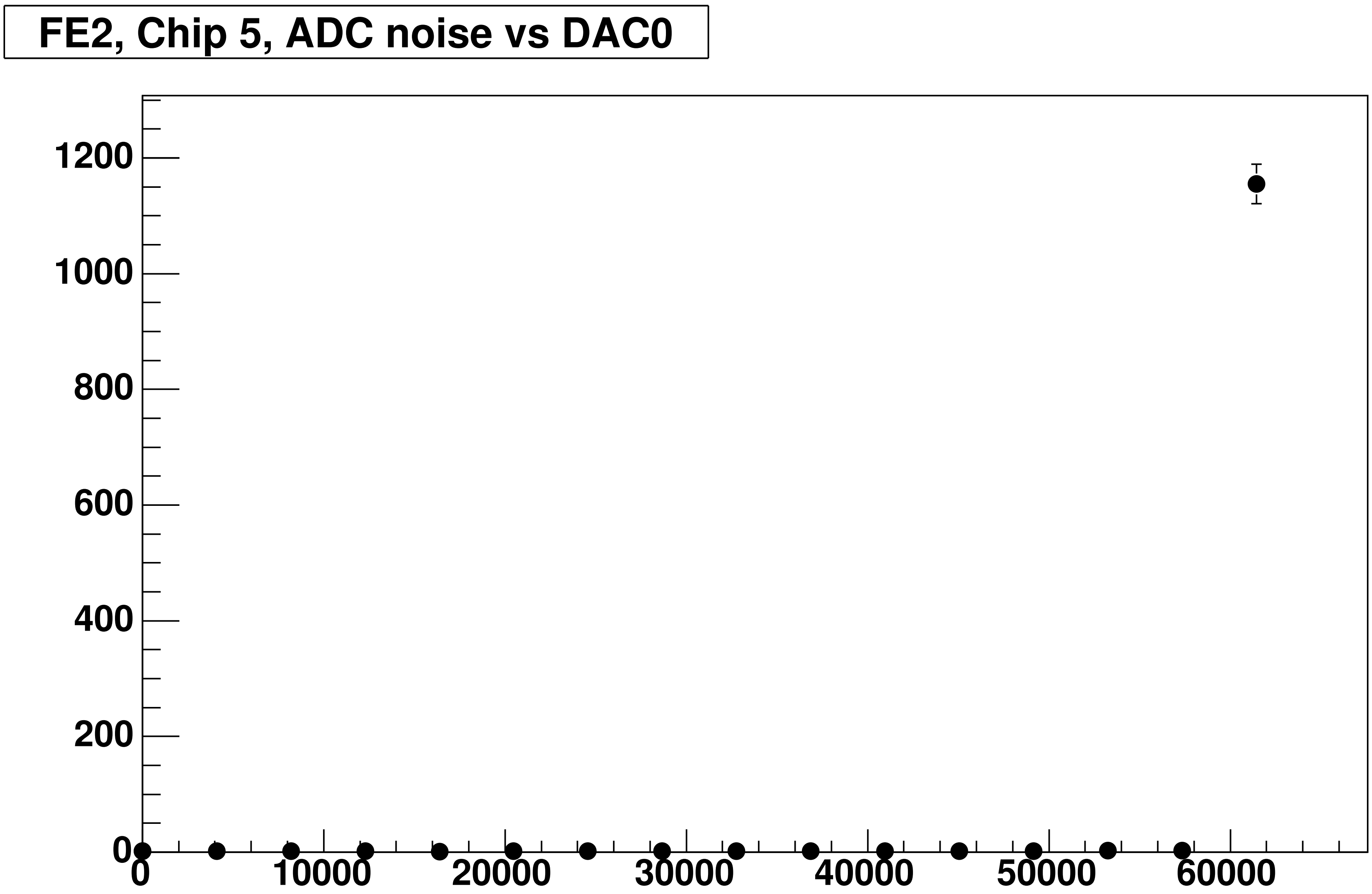

FE2, Chip 4, ADC mean vs DAC1
χ^2 / ndf 98.58 / 11
p0 36.31 ± 0.04082
p1 5.285e-06 ± 1.13e-06
36.1
36.2
36.3
36.4
36.5
36.6
36.7
36.8
36.9
0
10000
20000
30000
40000
50000
60000

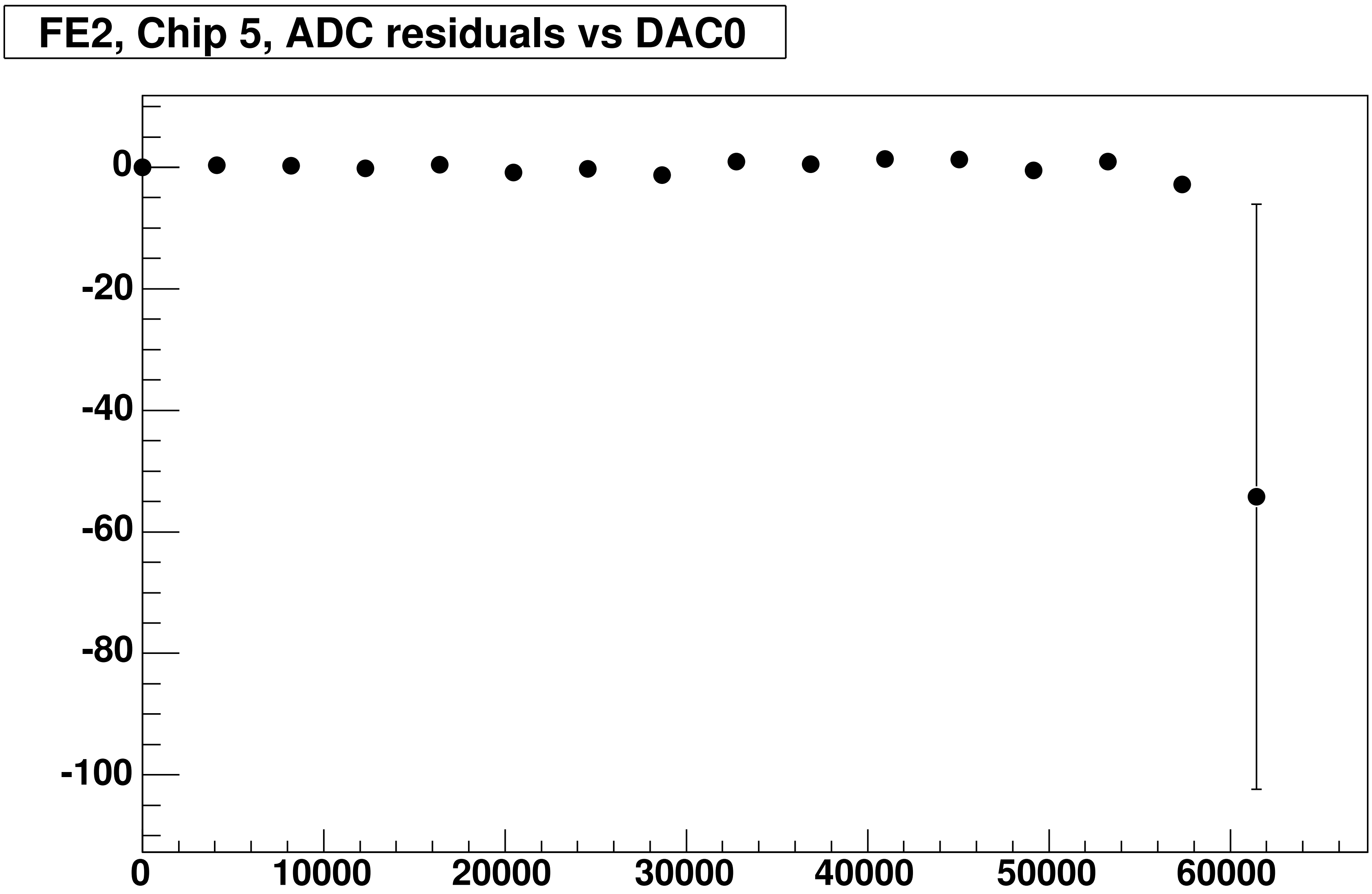

FE2, Chip 4, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

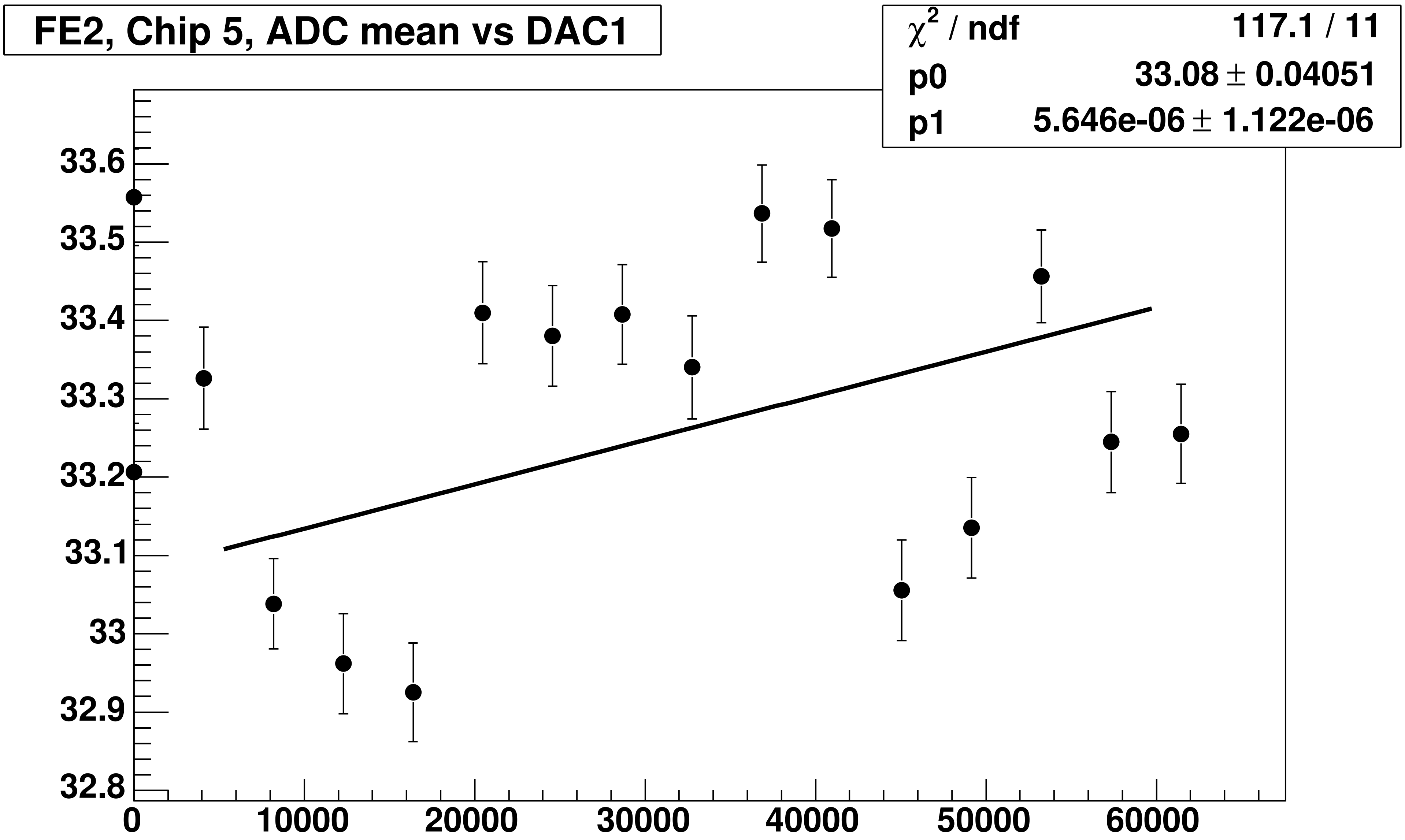

FE2, Chip 4, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

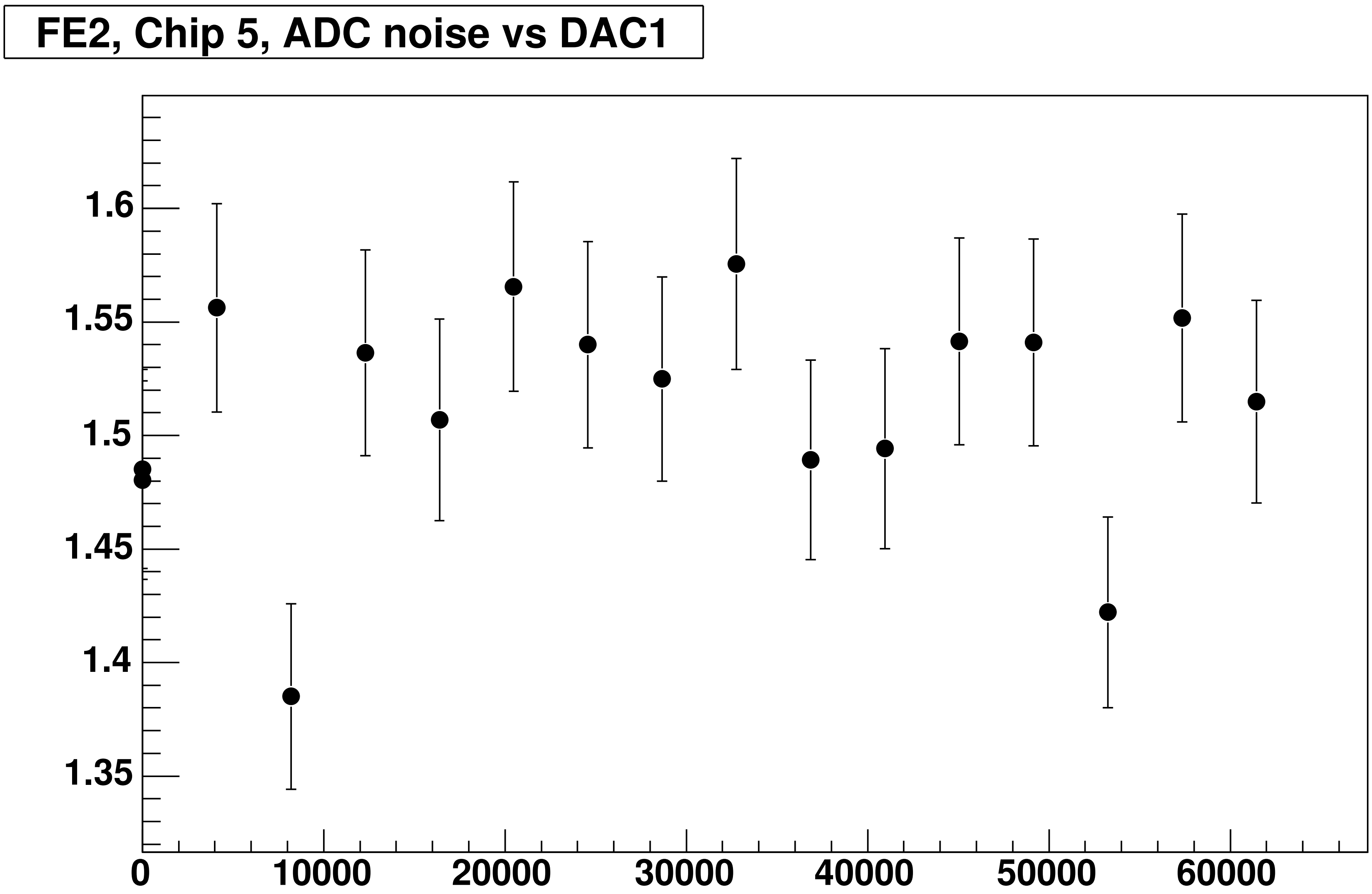


FE2, Chip 5, ADC mean vs DAC0
χ^2 / ndf 2242 / 11
p0 32.36 ± 0.0428
p1 0.4508 ± 1.381e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

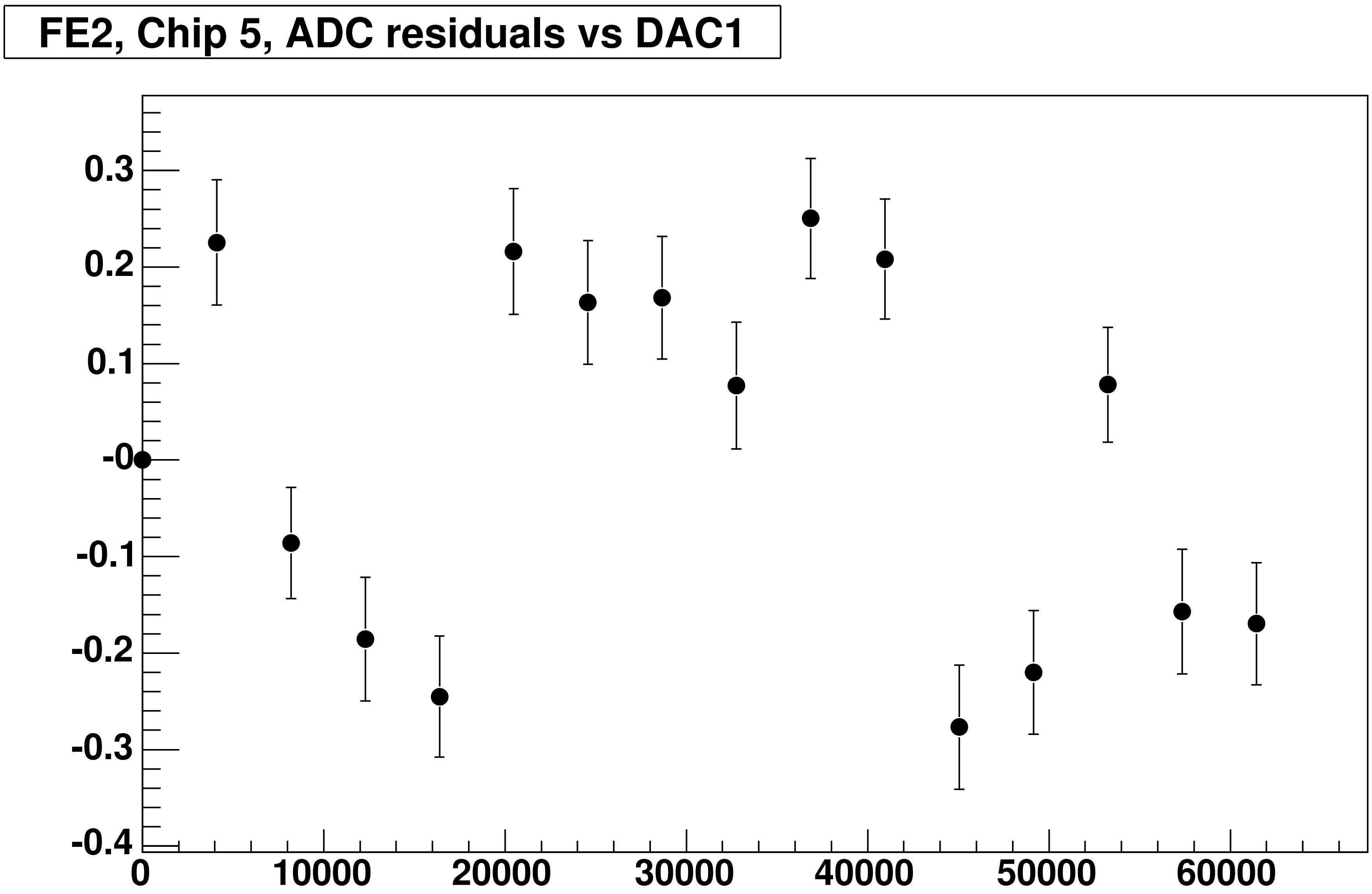

FE2, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

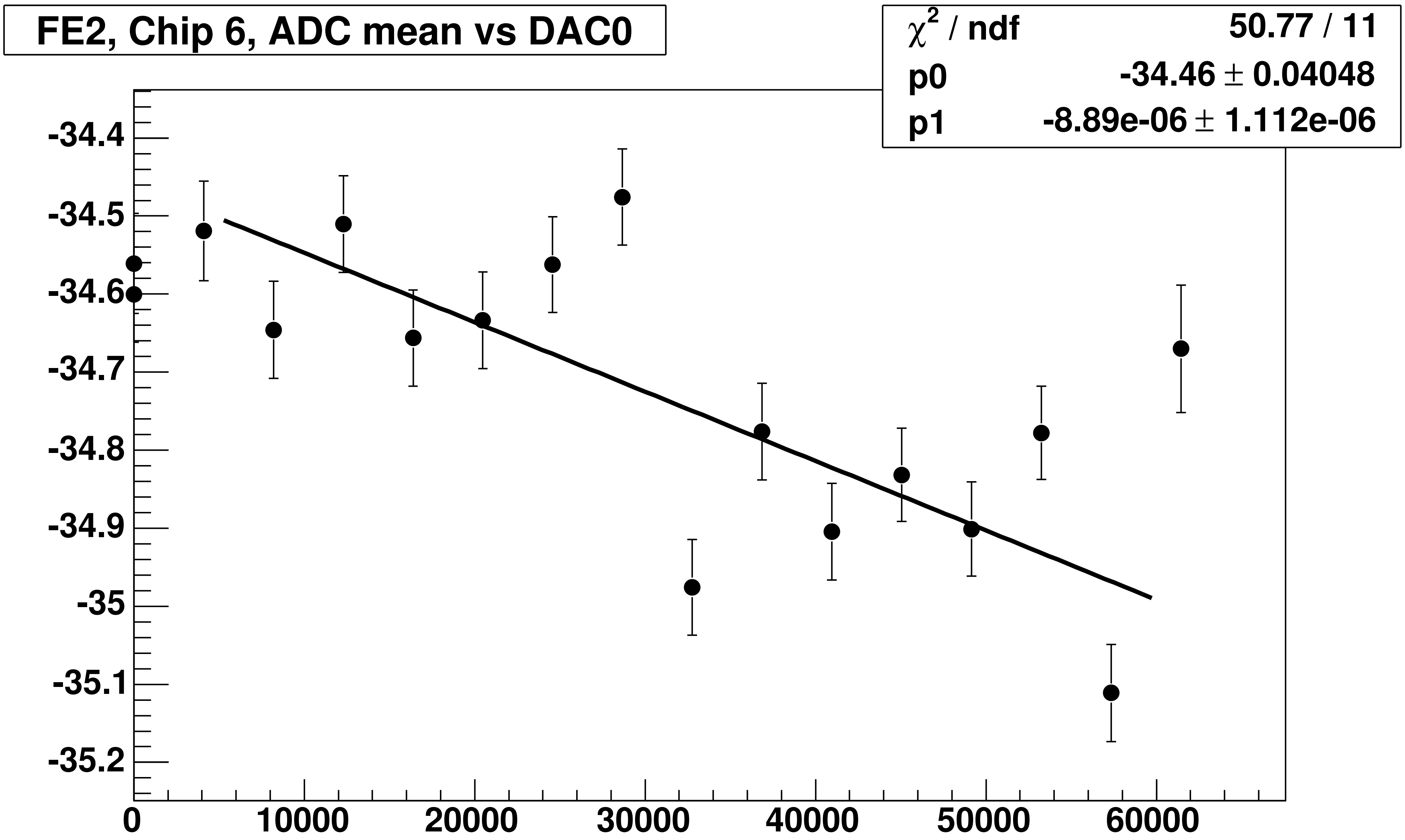

FE2, Chip 5, ADC mean vs DAC1
χ^2 / ndf 117.1 / 11
p0 33.08 ± 0.04051
p1 5.646e-06 ± 1.122e-06
33.6
33.5
33.4
33.3
33.2
33.1
33
32.9
32.8
0
10000
20000
30000
40000
50000
60000



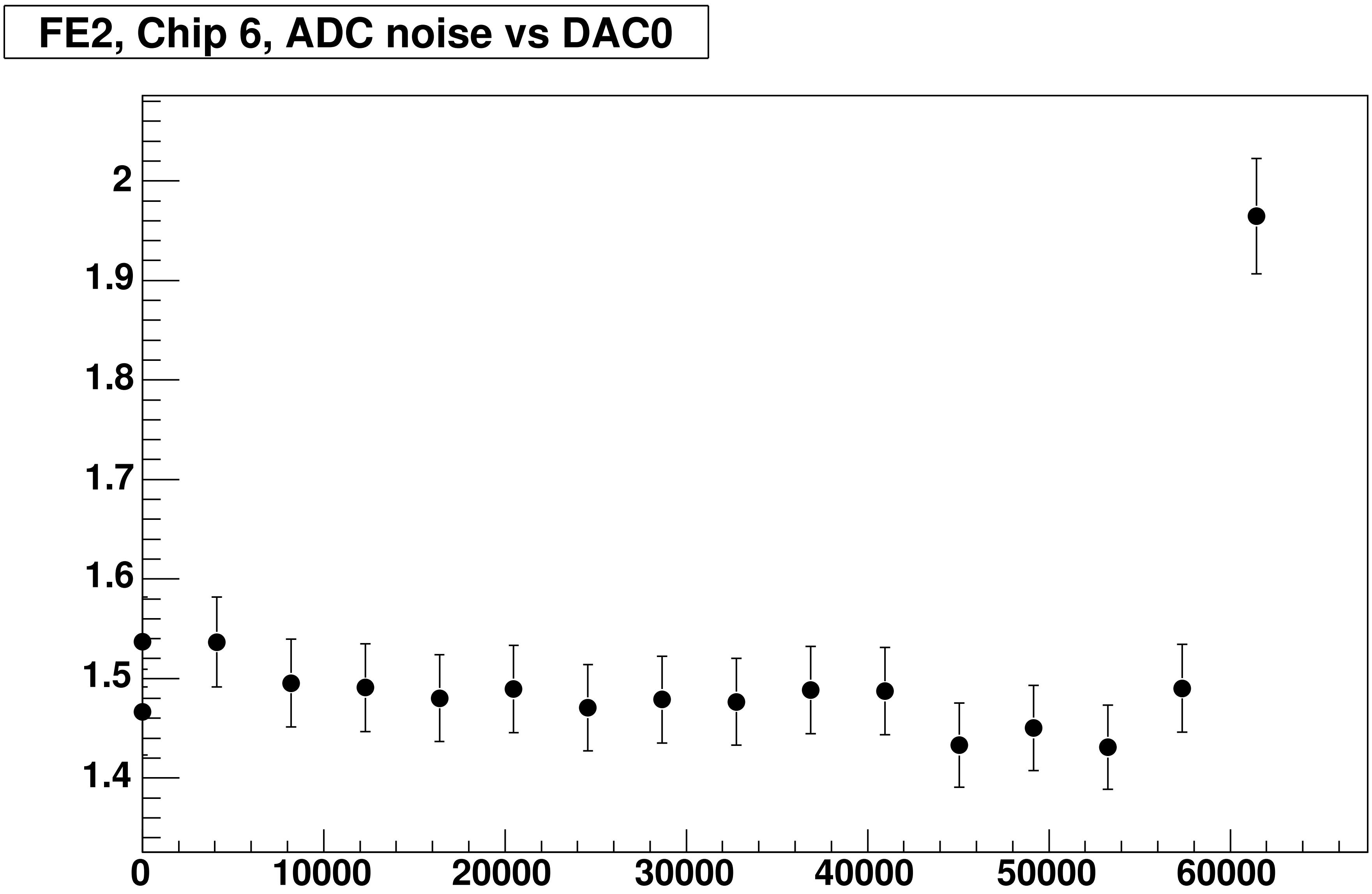
FE2, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

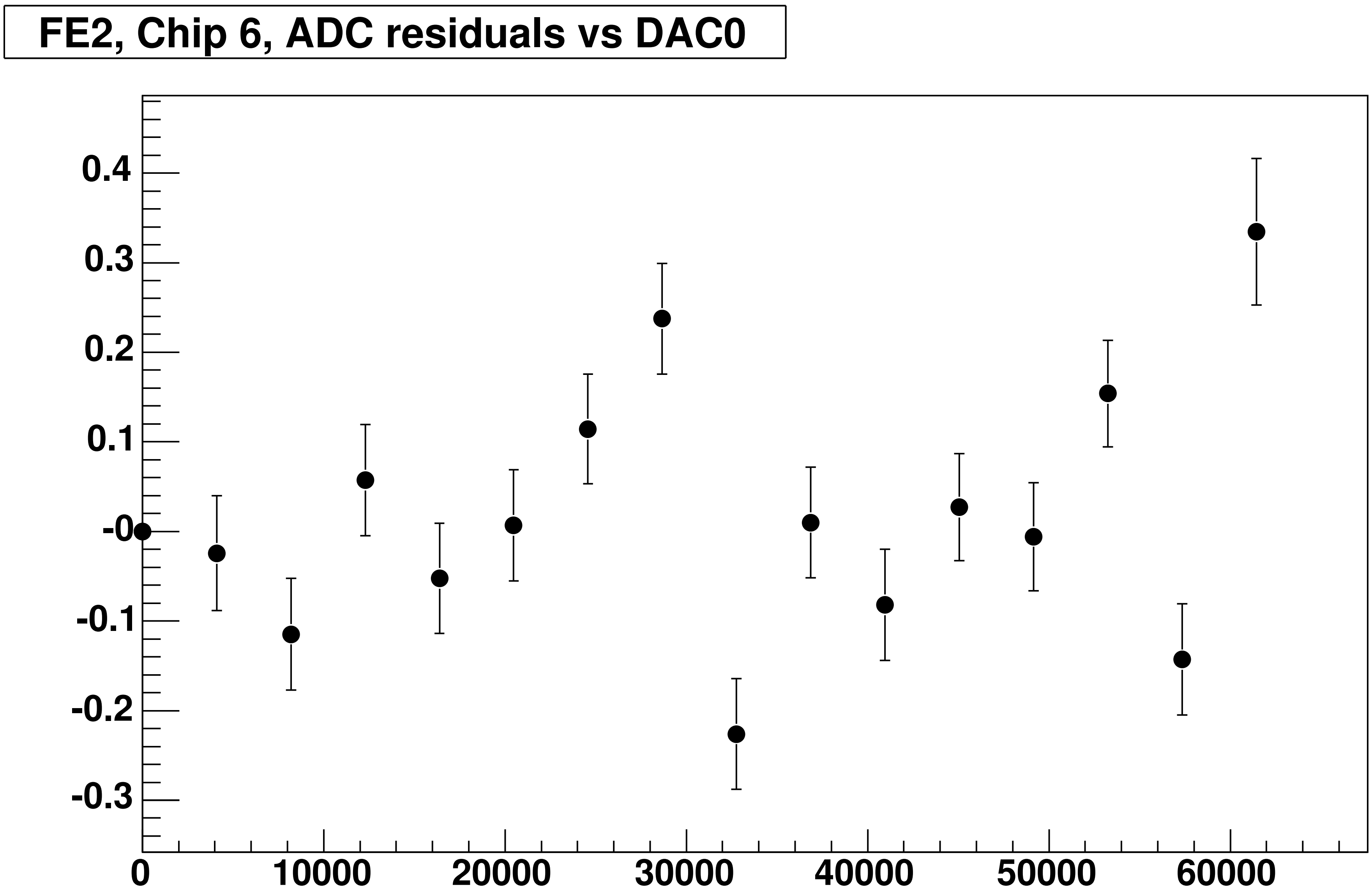


FE2, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

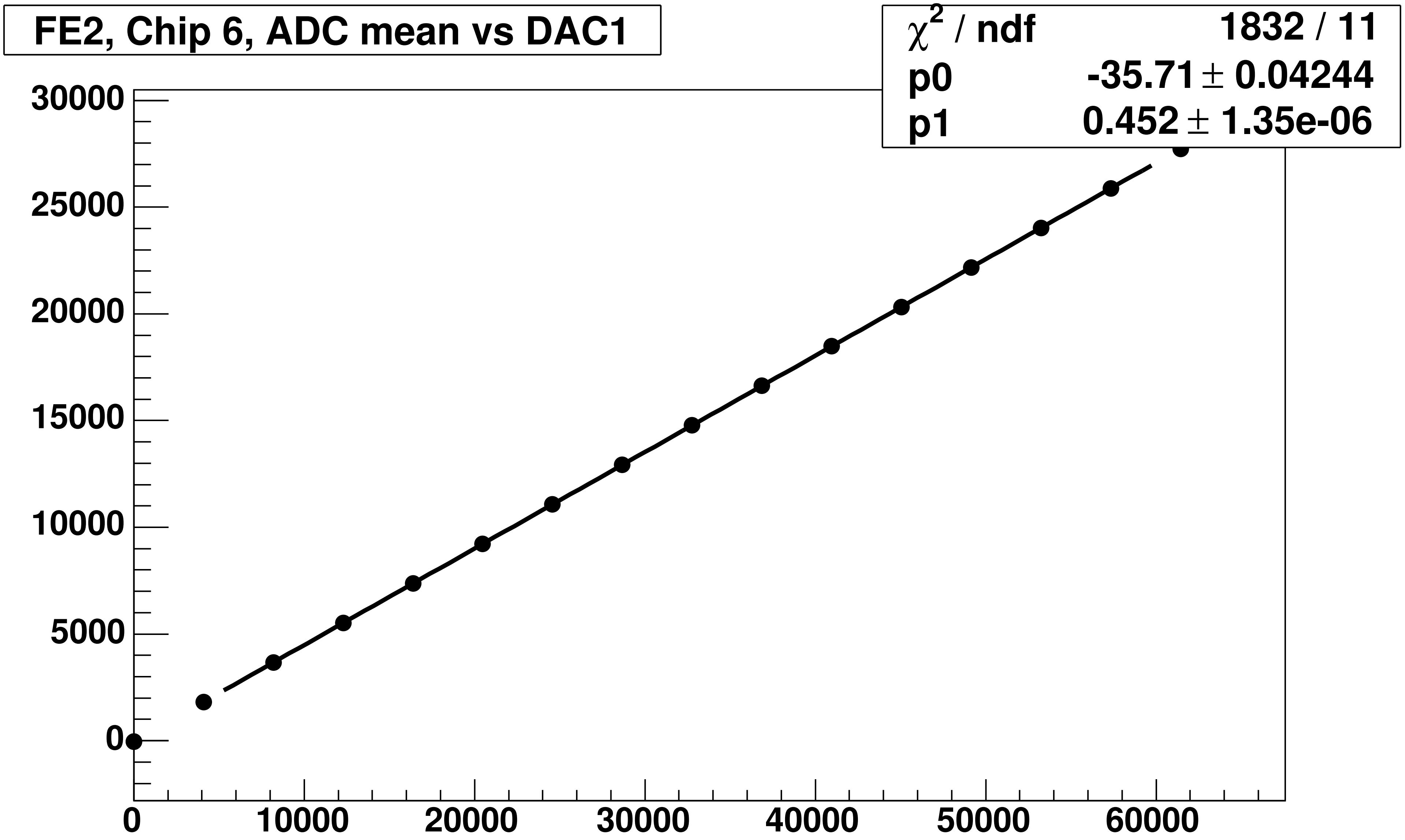


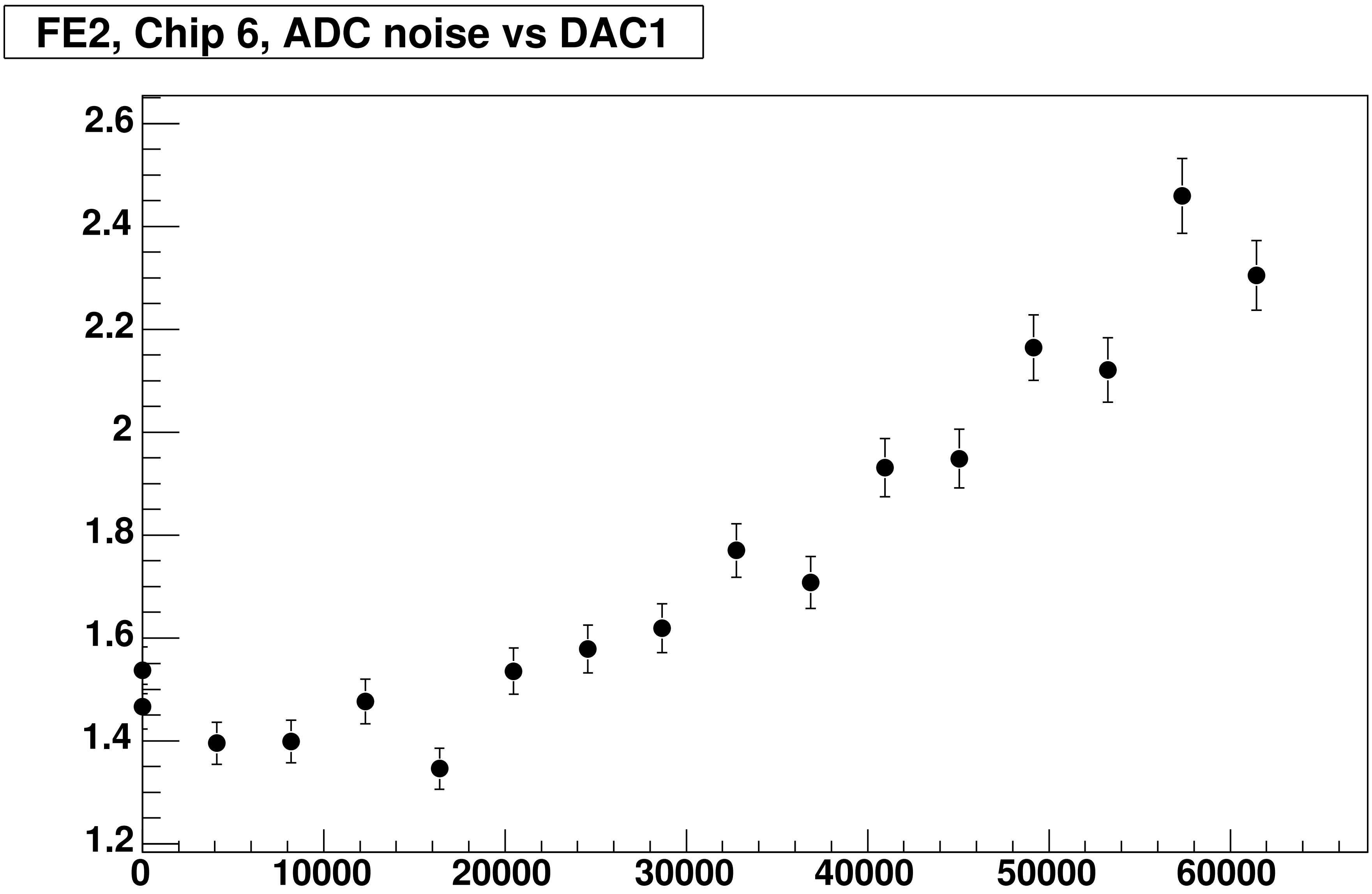
FE2, Chip 6, ADC mean vs DAC0
χ^2 / ndf 50.77 / 11
p0 -34.46 ± 0.04048
p1 -8.89e-06 ± 1.112e-06
-34.4
-34.5
-34.6
-34.7
-34.8
-34.9
-35
-35.1
-35.2
0
10000
20000
30000
40000
50000
60000


FE2, Chip 6, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

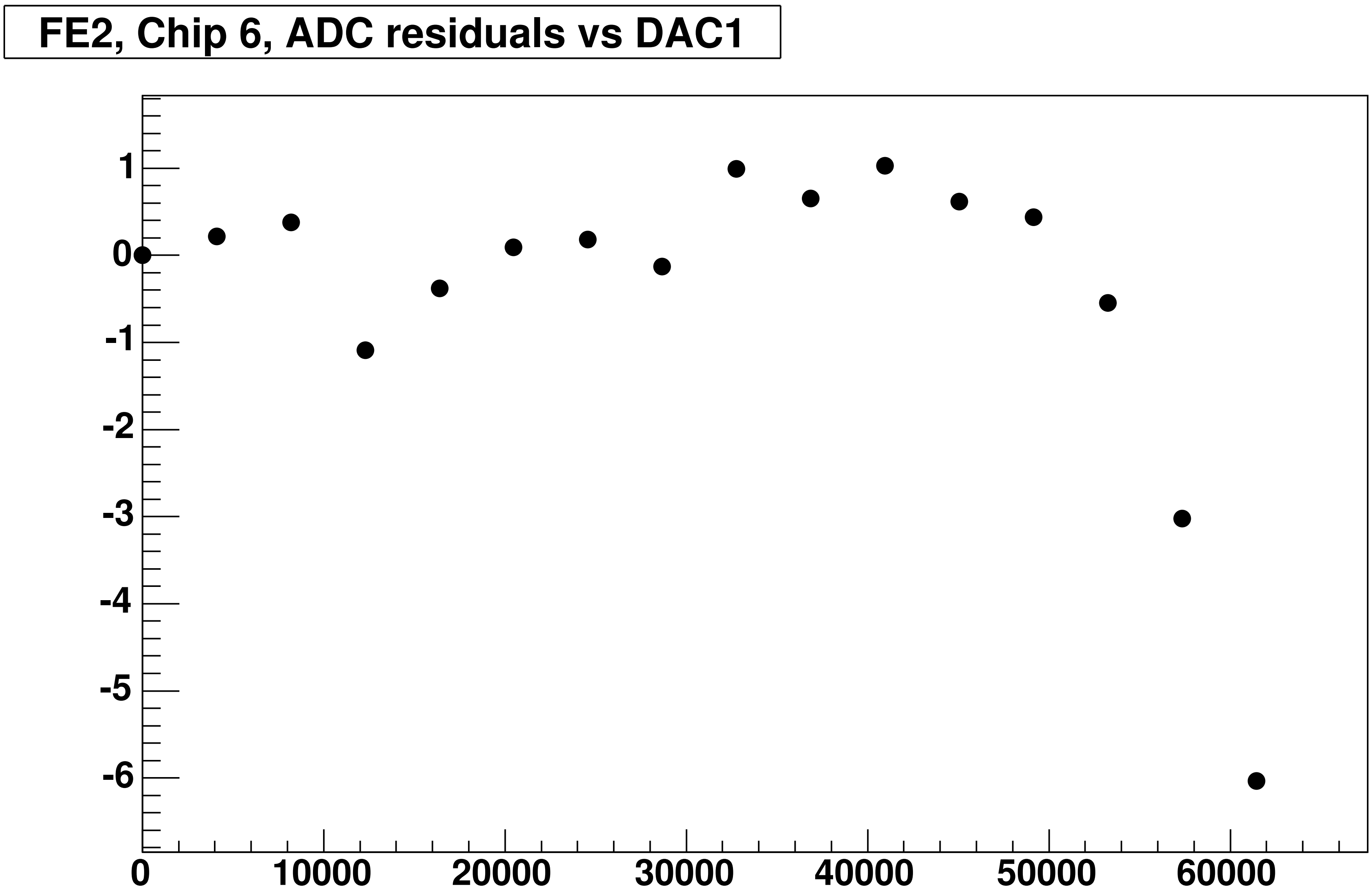


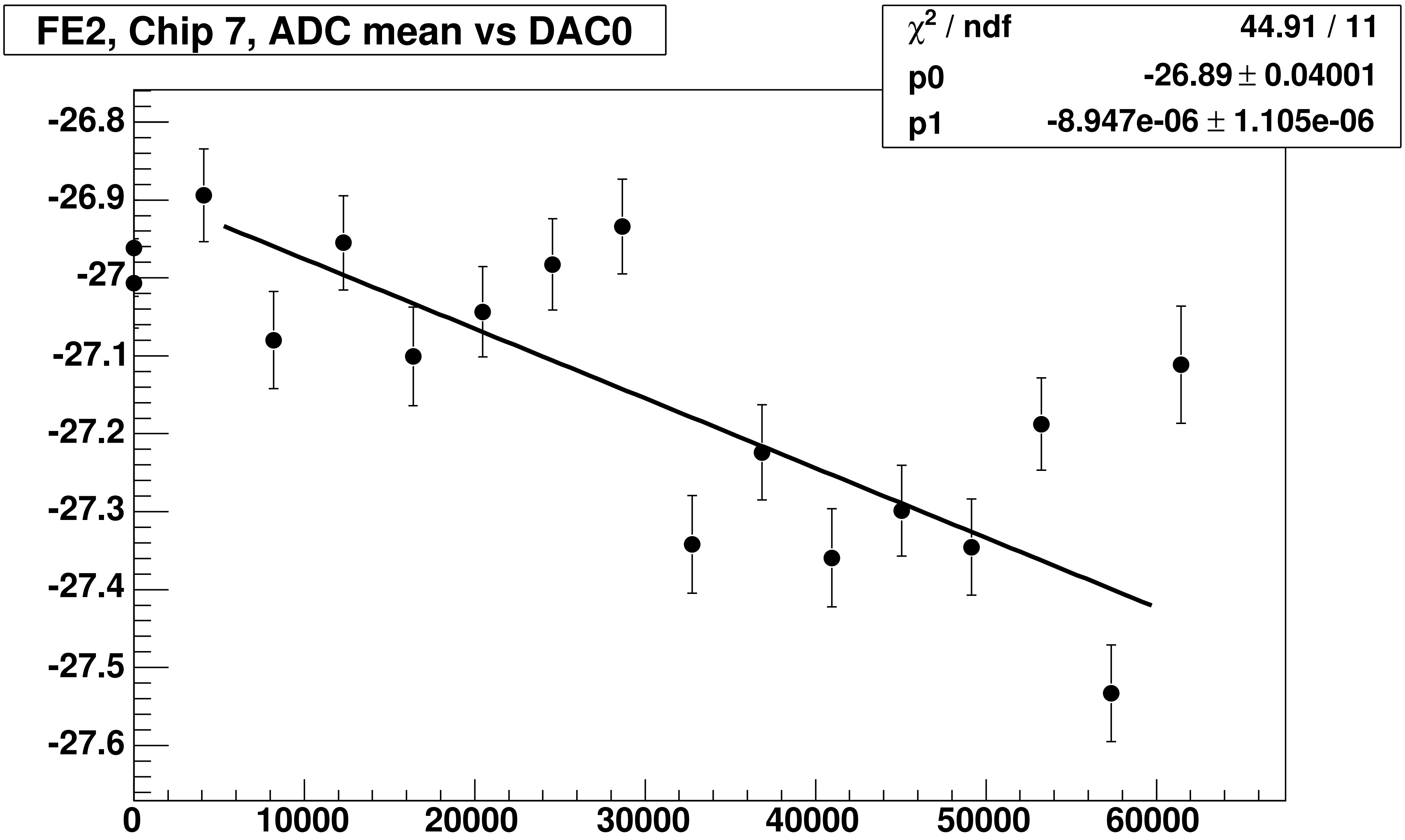
FE2, Chip 6, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

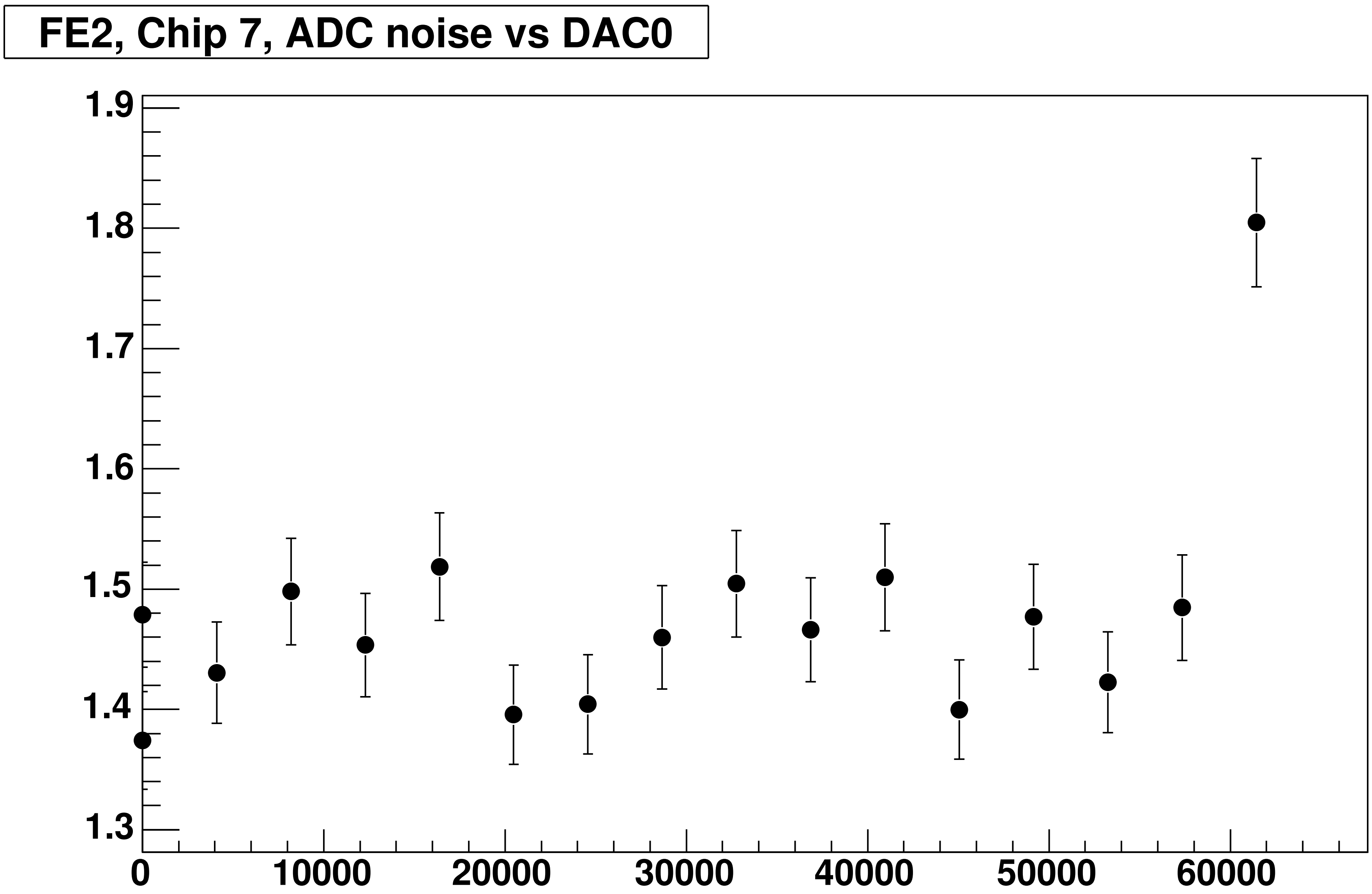

FE2, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1832 / 11
p0 -35.71 ± 0.04244
p1 0.452 ± 1.35e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

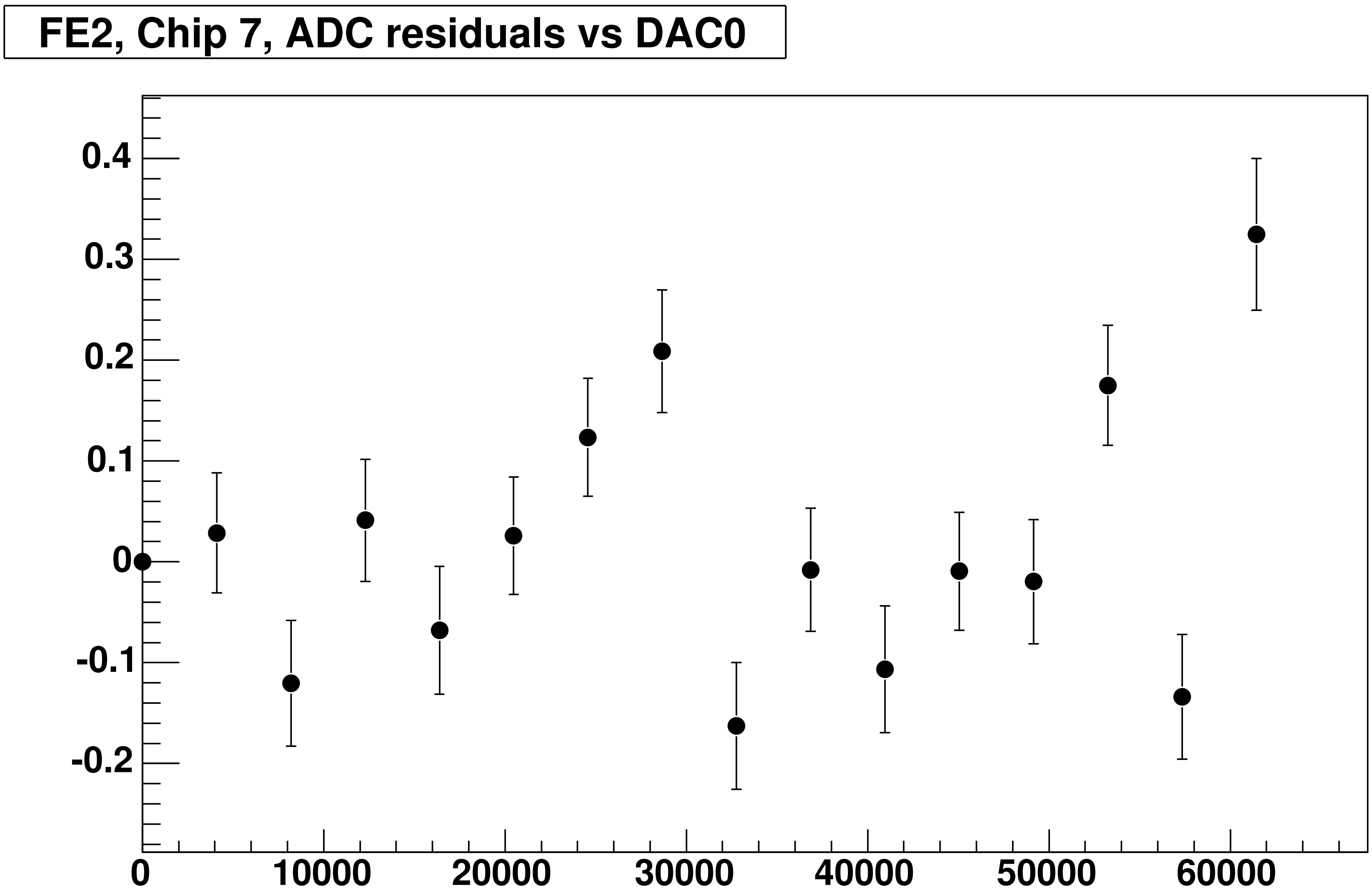


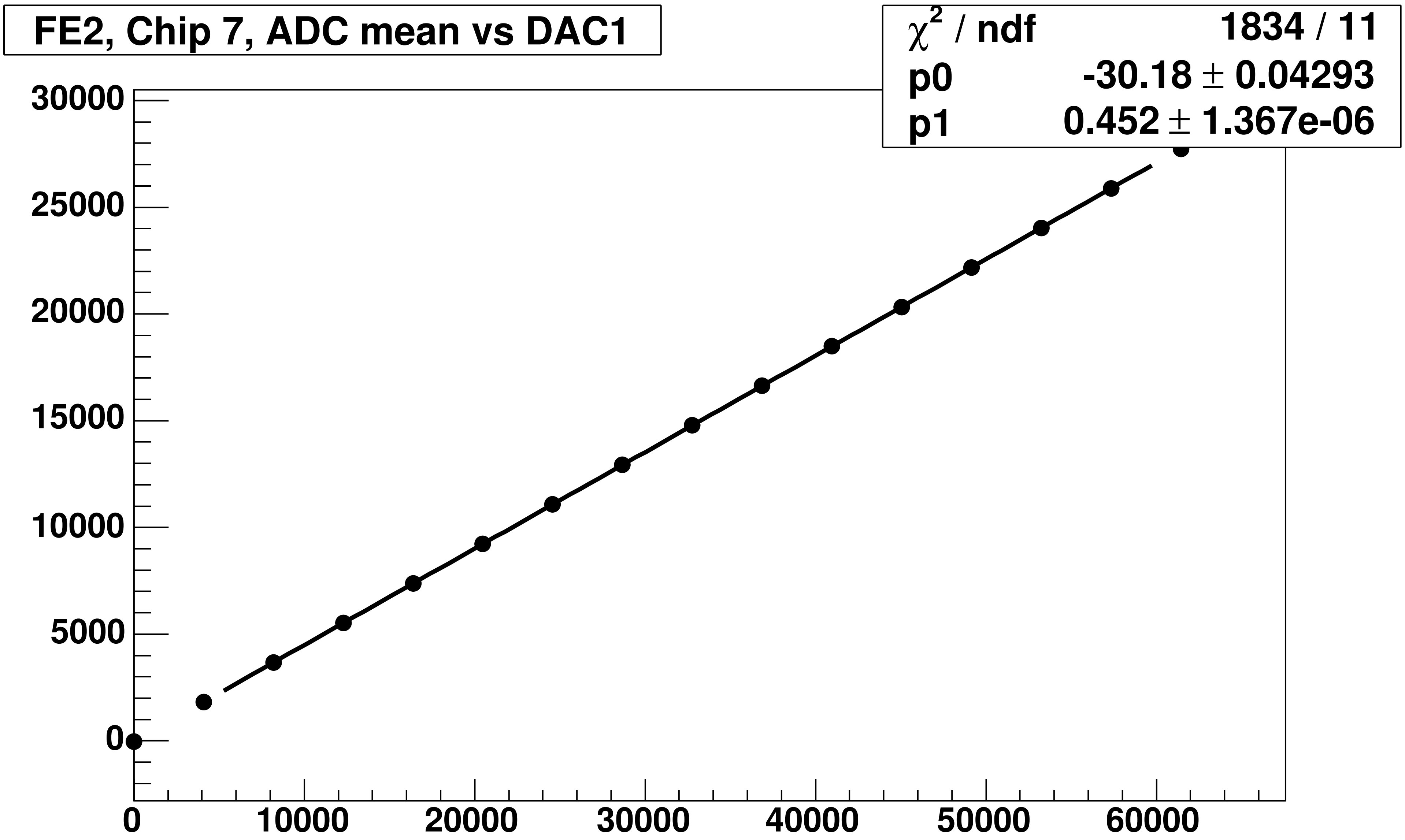
FE2, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

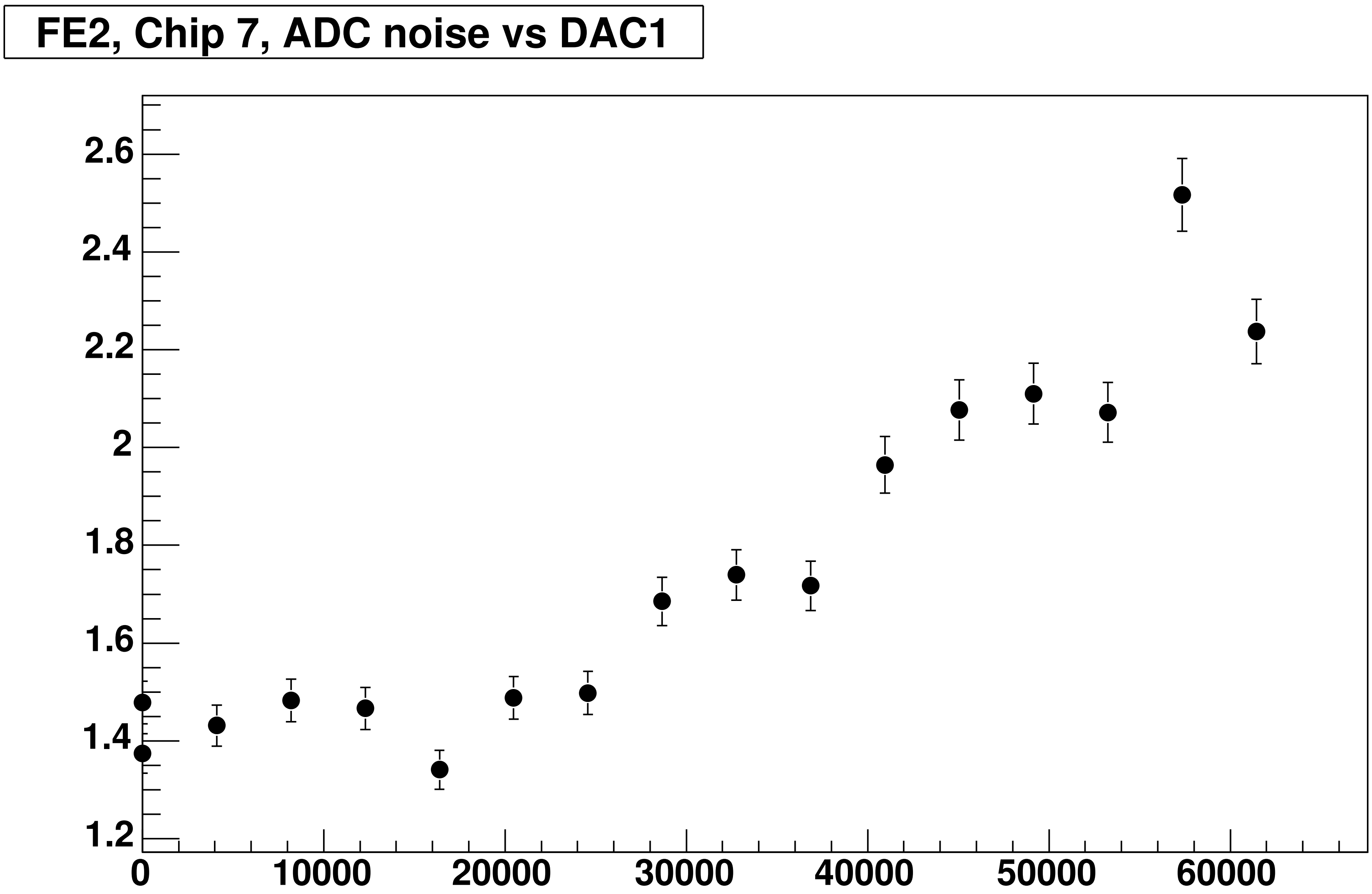

FE2, Chip 7, ADC mean vs DAC0
χ^2 / ndf 44.91 / 11
p0 -26.89 ± 0.04001
p1 -8.947e-06 ± 1.105e-06
-26.8
-26.9
-27
-27.1
-27.2
-27.3
-27.4
-27.5
-27.6
0
10000
20000
30000
40000
50000
60000

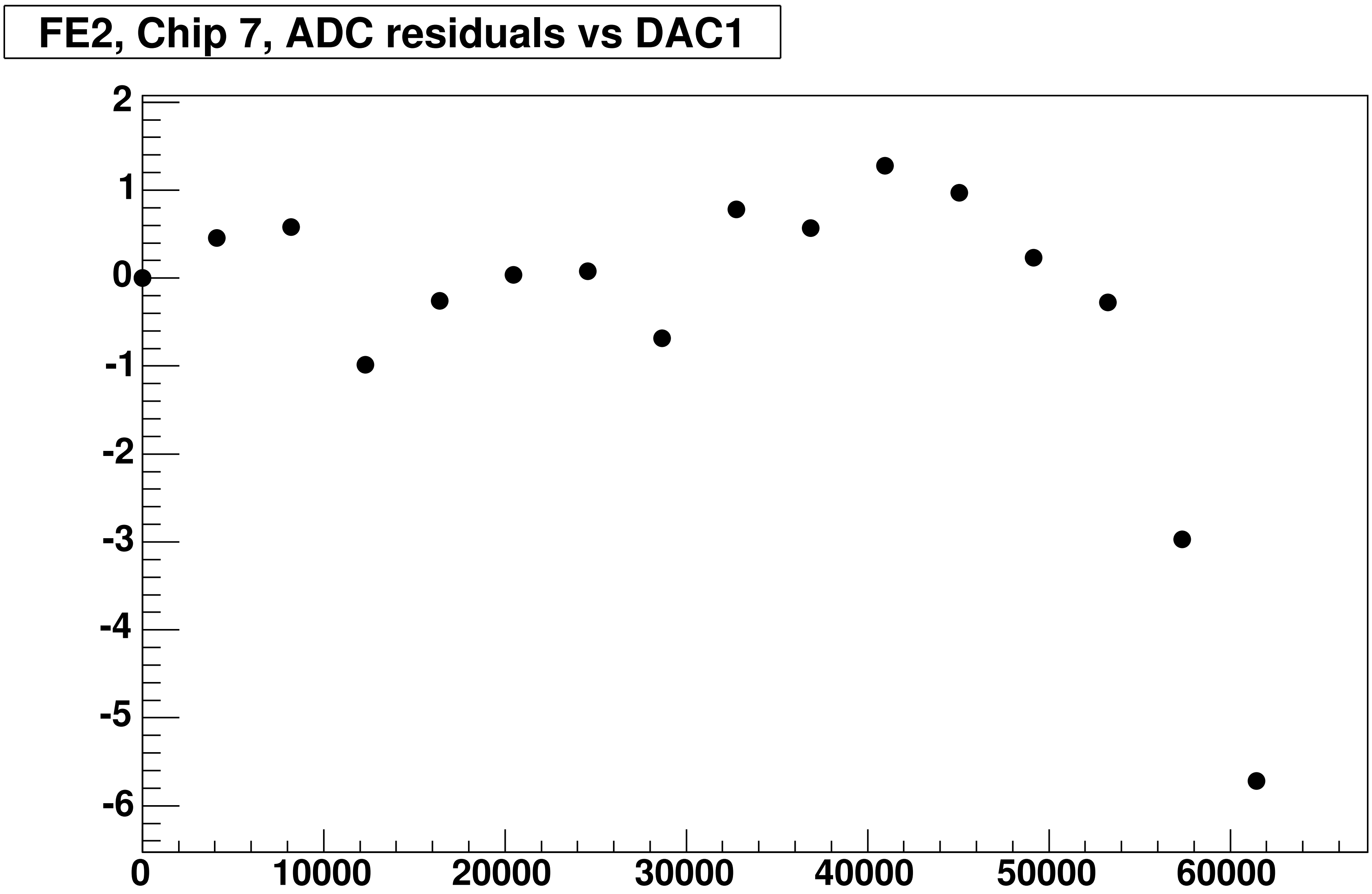

FE2, Chip 7, ADC noise vs DAC0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

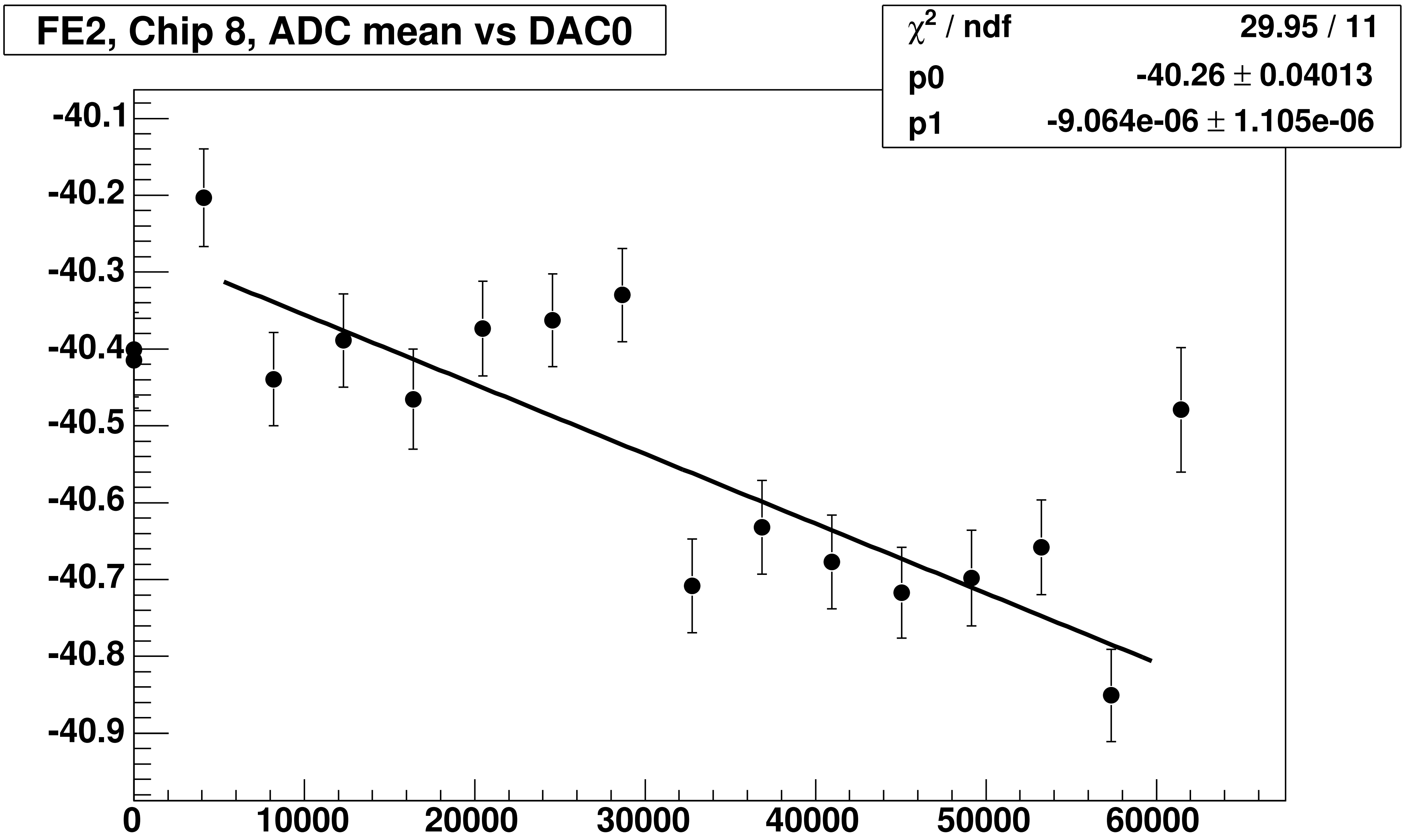

FE2, Chip 7, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



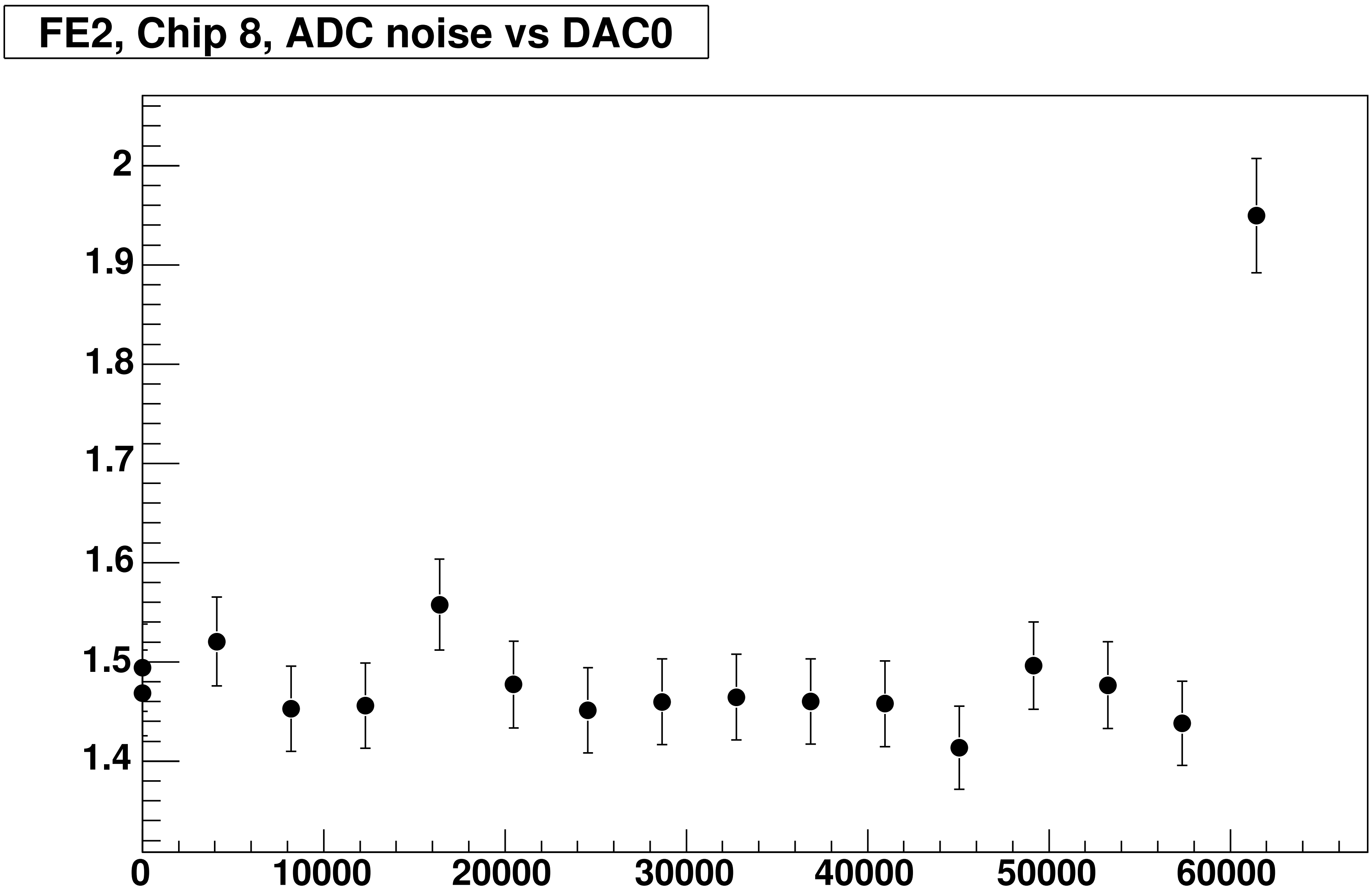
FE2, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1834 / 11
p0 -30.18 ± 0.04293
p1 0.452 ± 1.367e-06
30000
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

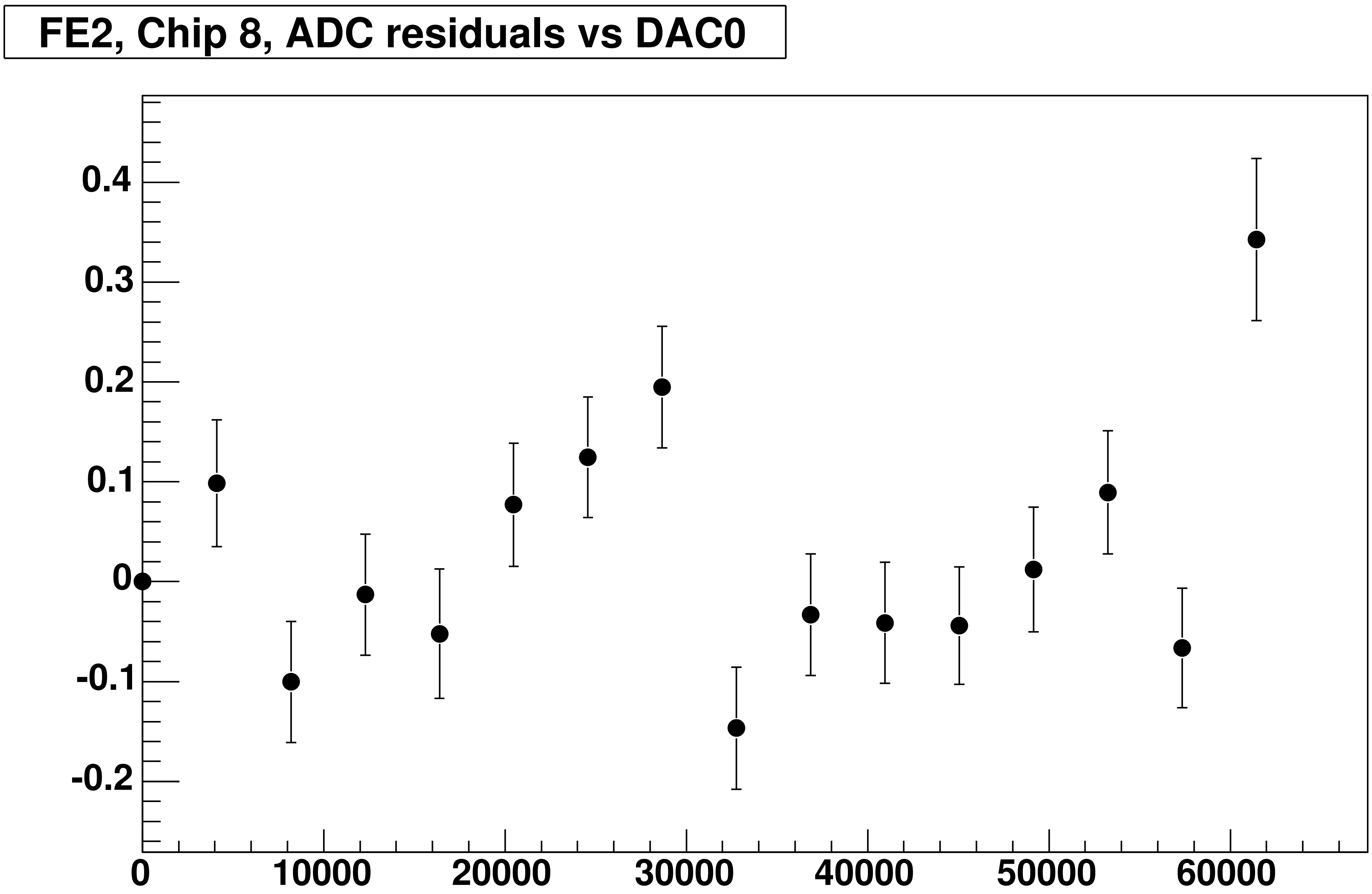

FE2, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

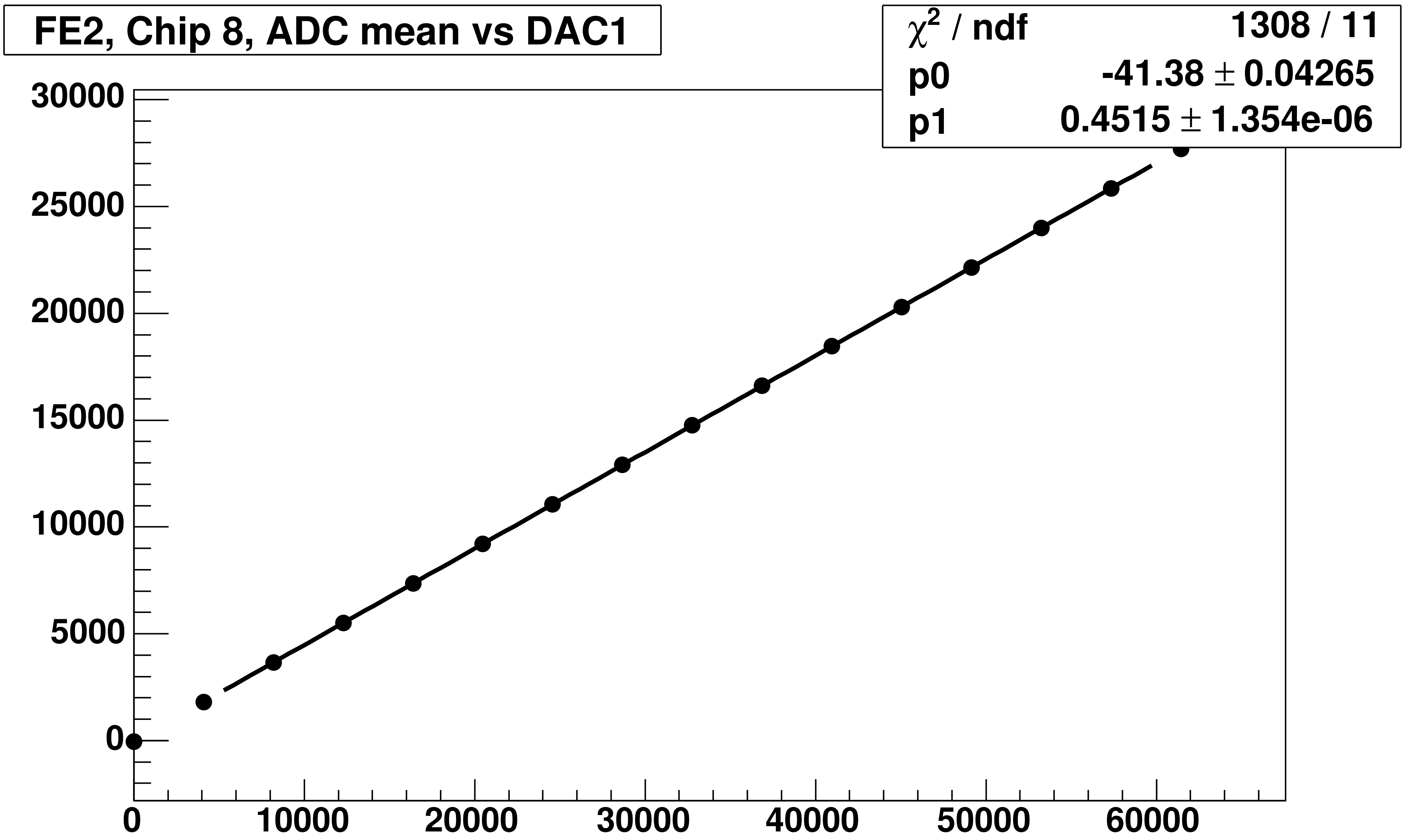


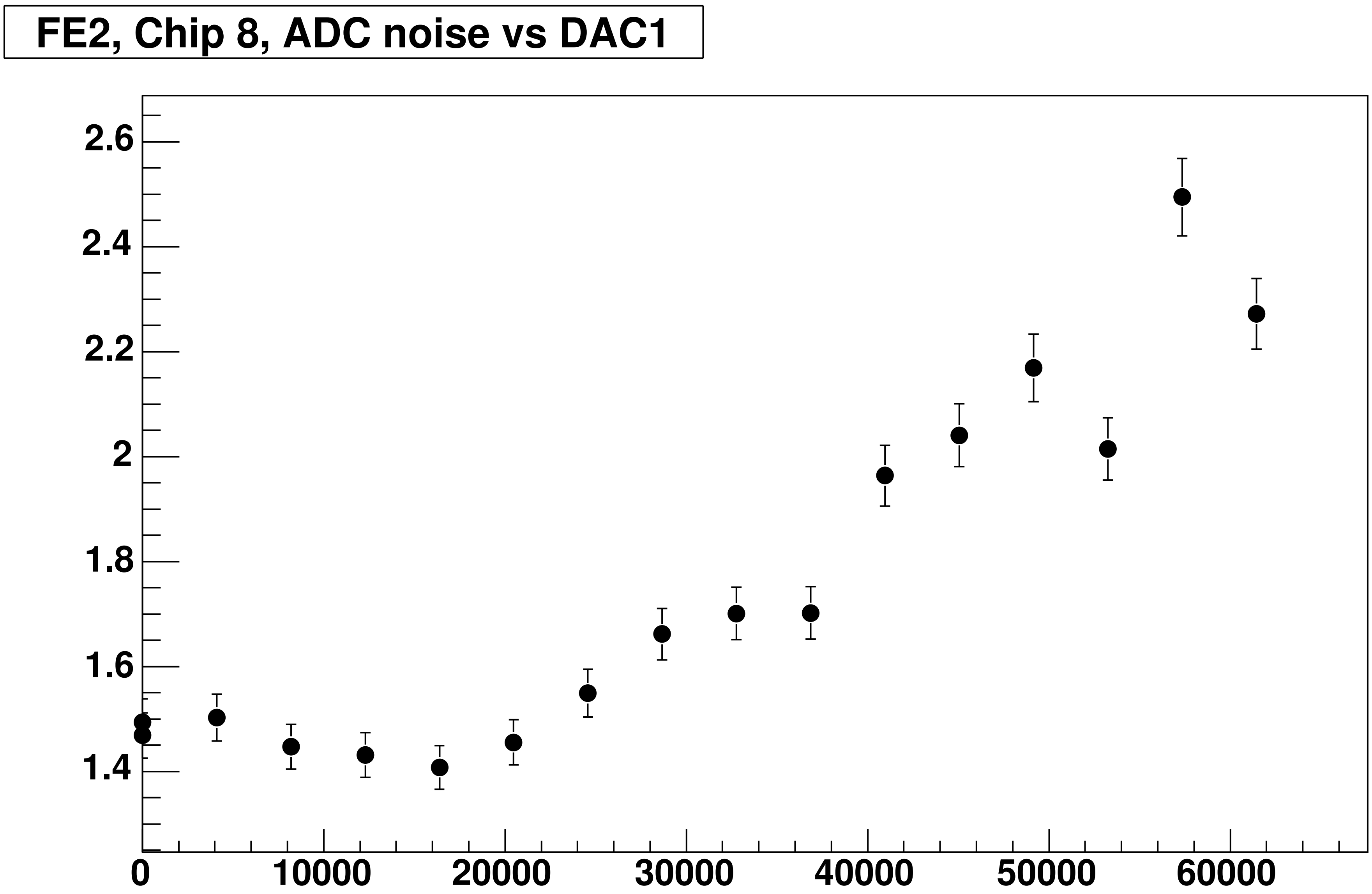
FE2, Chip 8, ADC mean vs DAC0
χ^2 / ndf 29.95 / 11
p0 -40.26 ± 0.04013
p1 -9.064e-06 ± 1.105e-06
-40.1
-40.2
-40.3
-40.4
-40.5
-40.6
-40.7
-40.8
-40.9
0
10000
20000
30000
40000
50000
60000

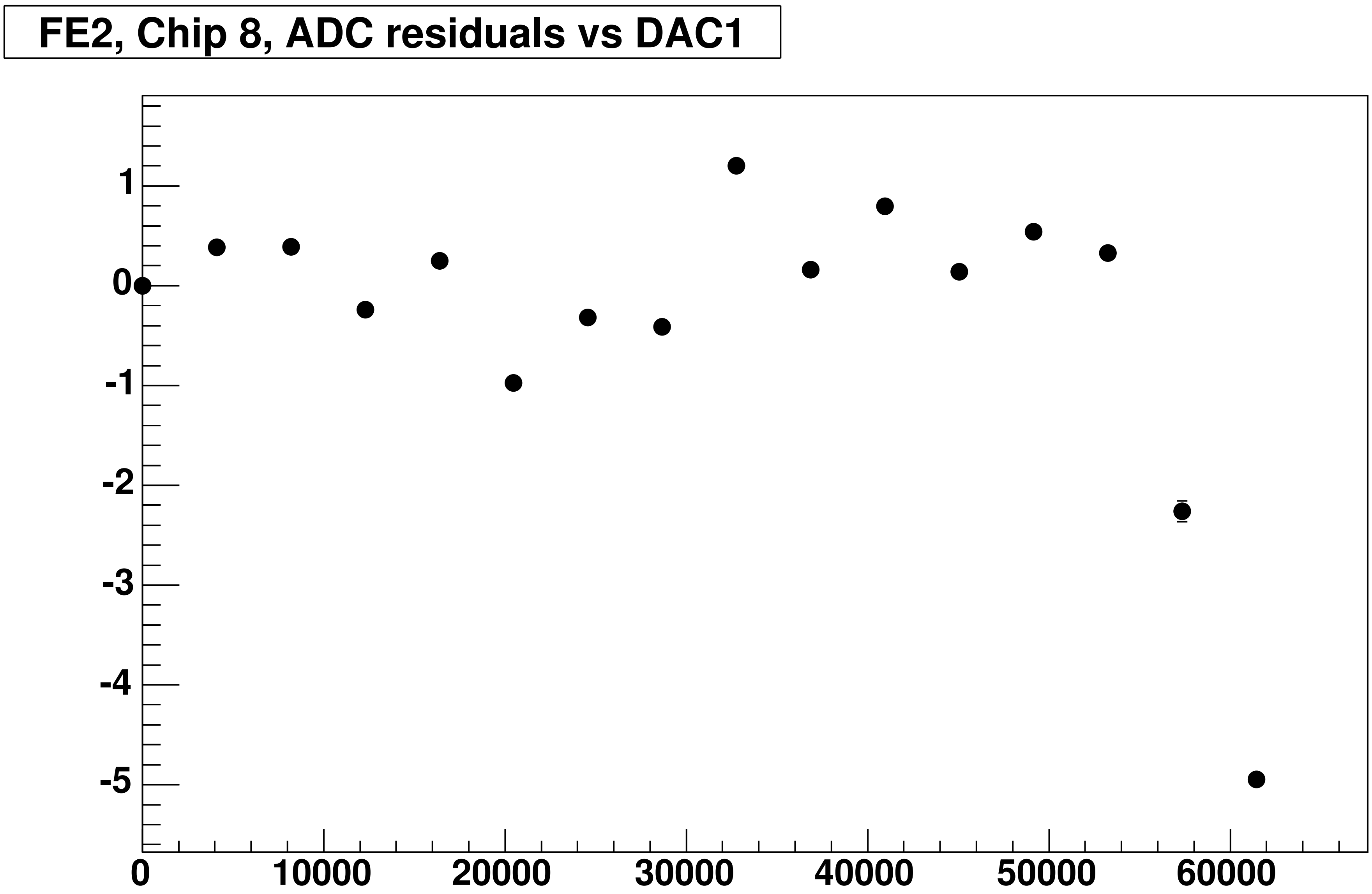

FE2, Chip 8, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

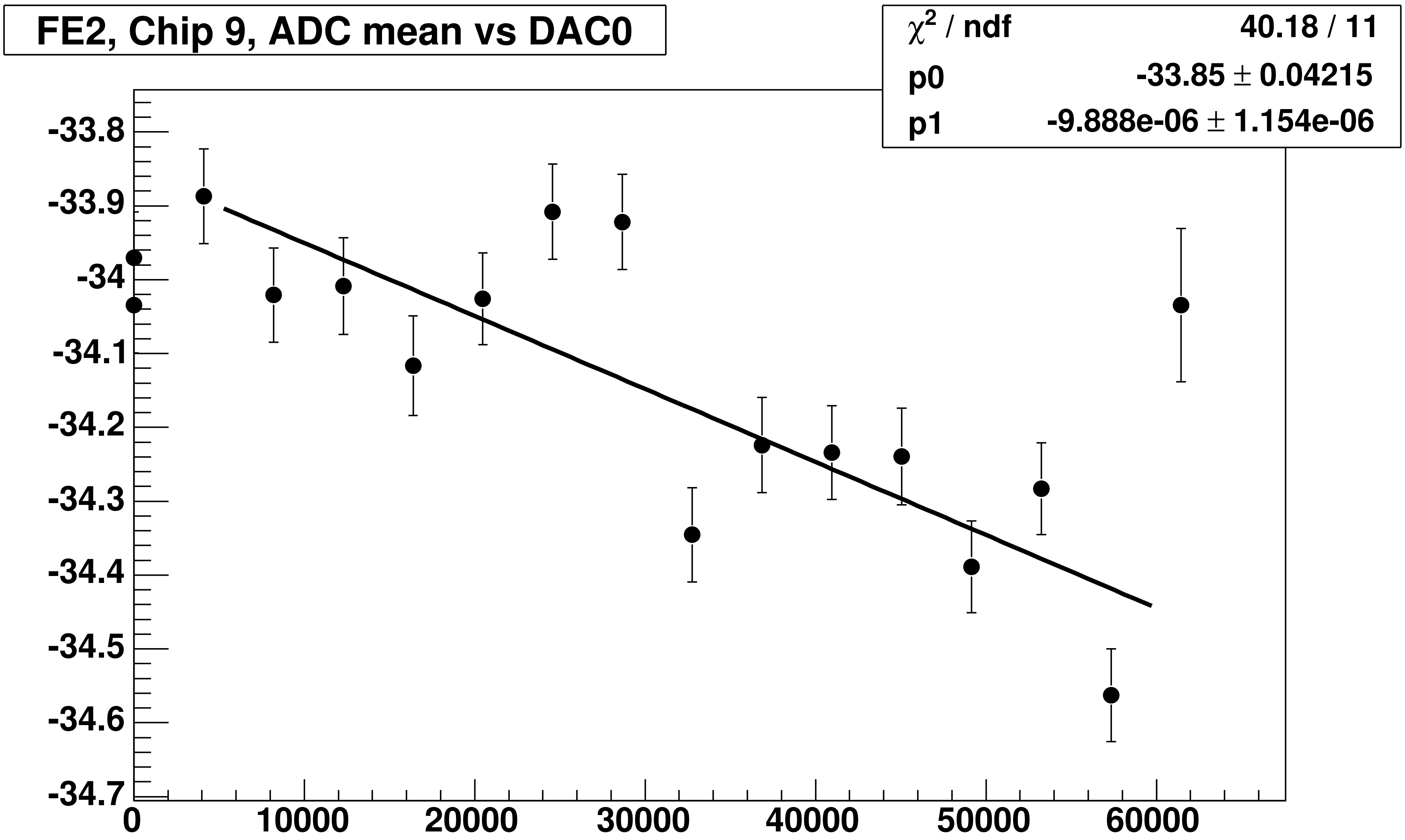


FE2, Chip 8, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

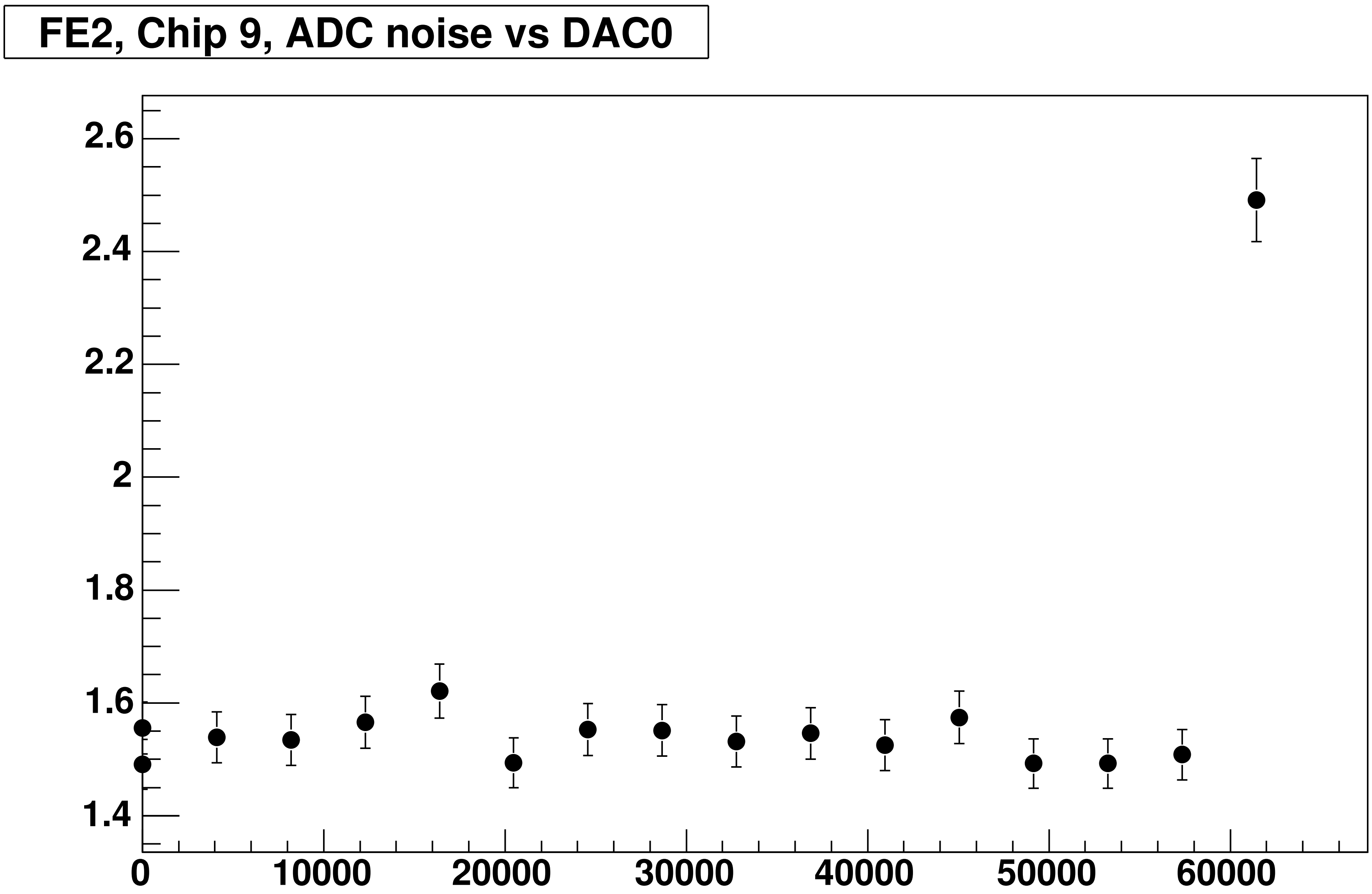

FE2, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1308 / 11
p0 -41.38 ± 0.04265
p1 0.4515 ± 1.354e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

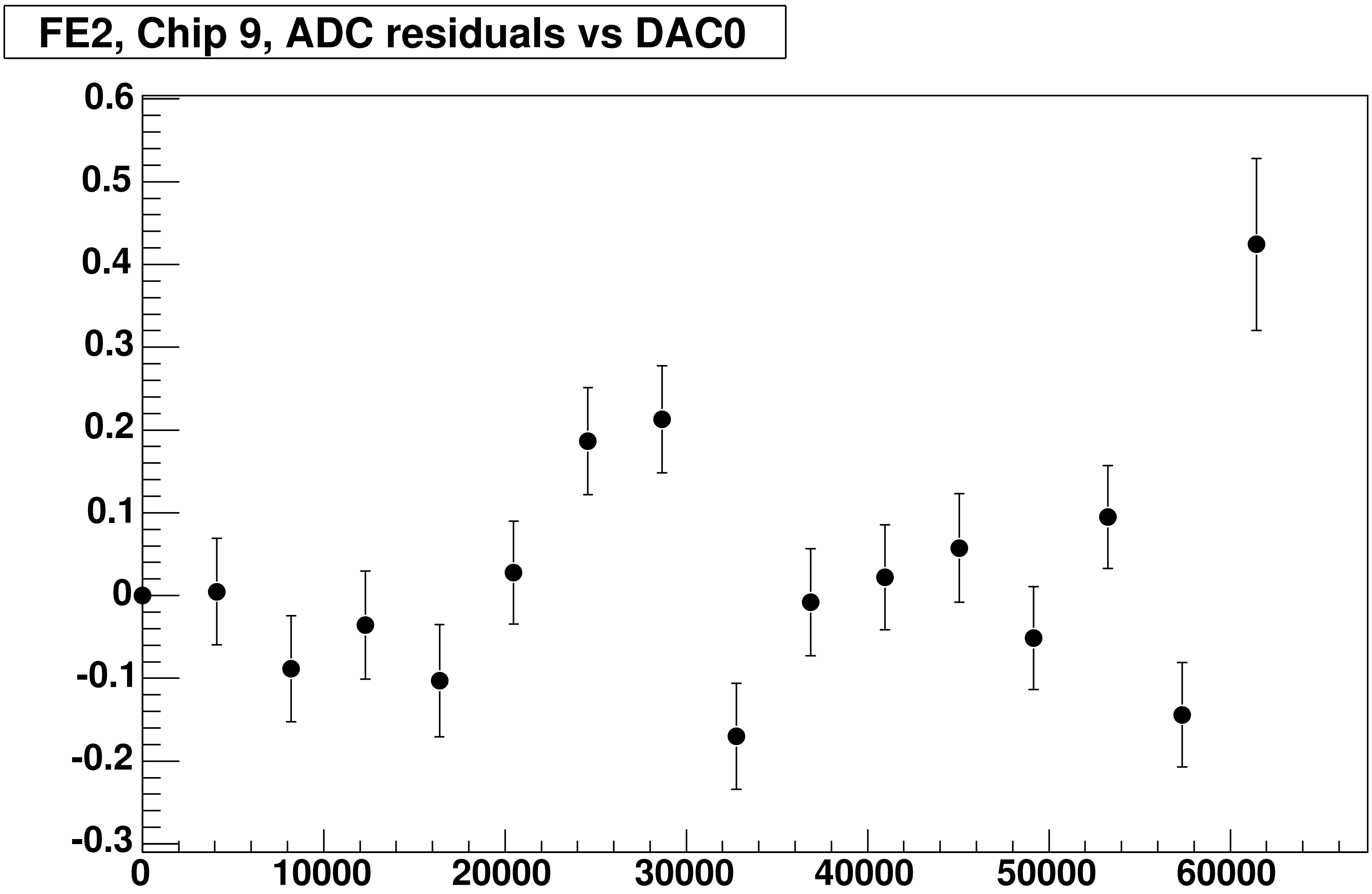

FE2, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

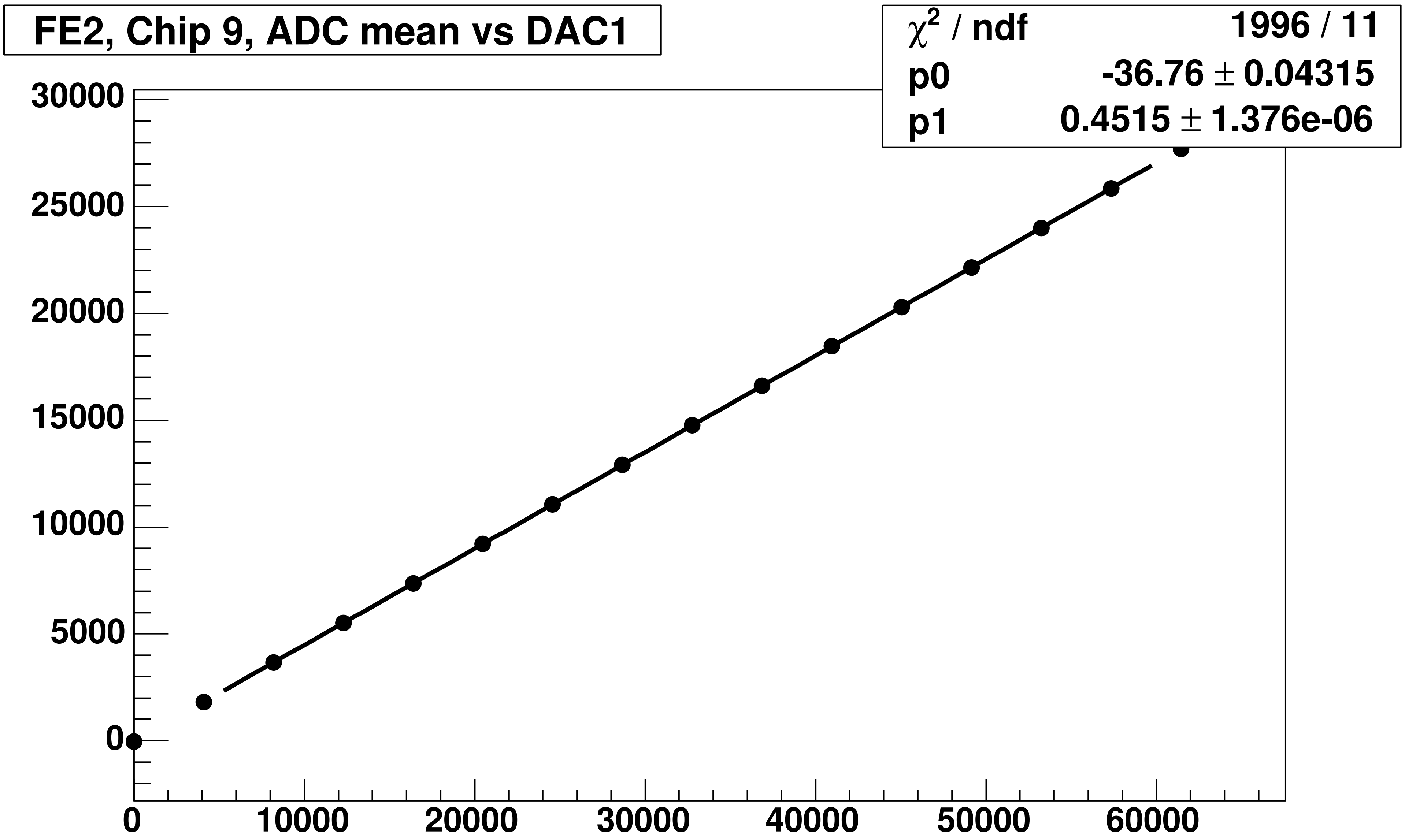

FE2, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



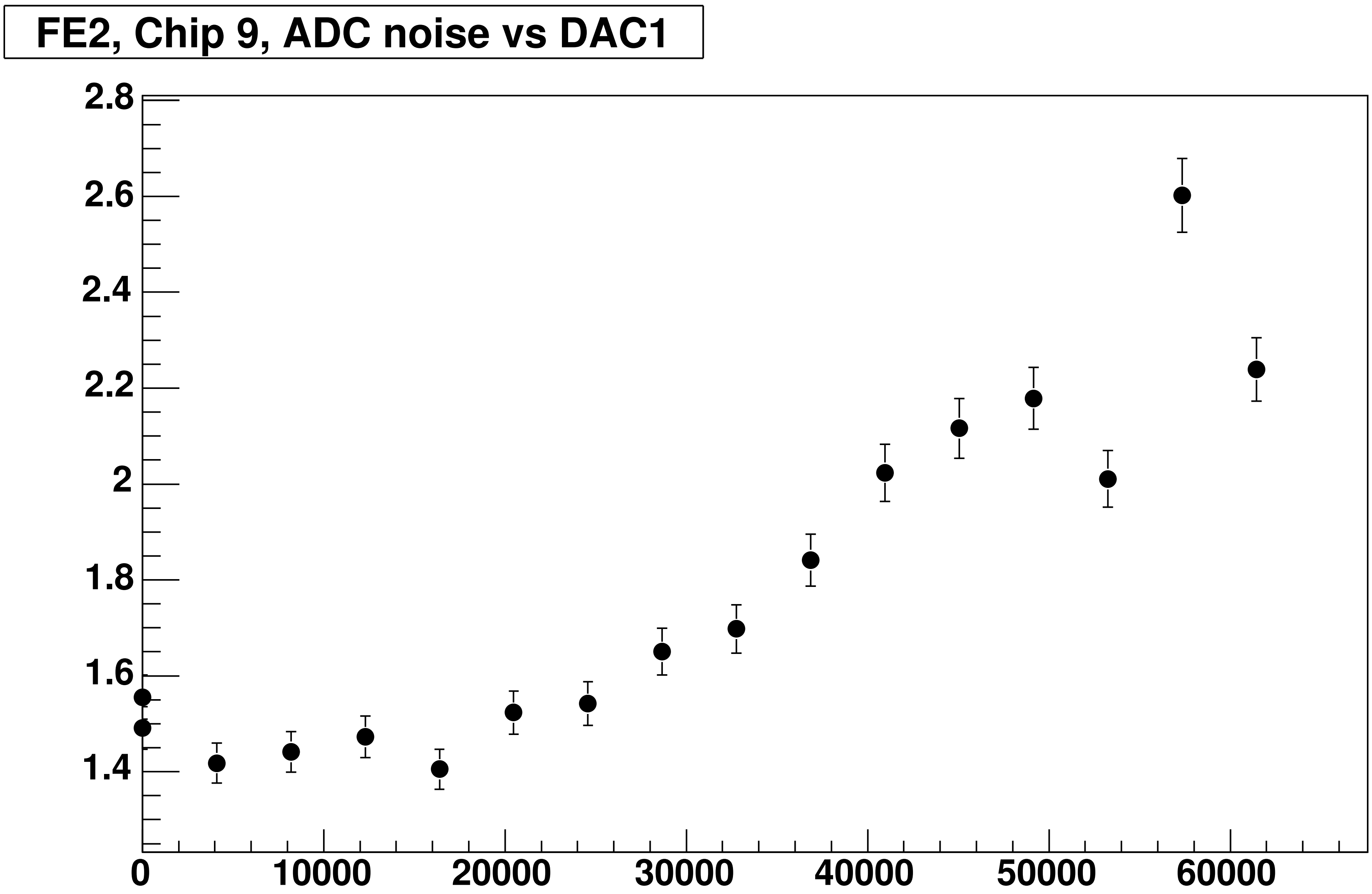
FE2, Chip 9, ADC mean vs DAC0
χ^2 / ndf 40.18 / 11
p0 -33.85 ± 0.04215
p1 -9.888e-06 ± 1.154e-06
-33.8
-33.9
-34
-34.1
-34.2
-34.3
-34.4
-34.5
-34.6
-34.7
0
10000
20000
30000
40000
50000
60000


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

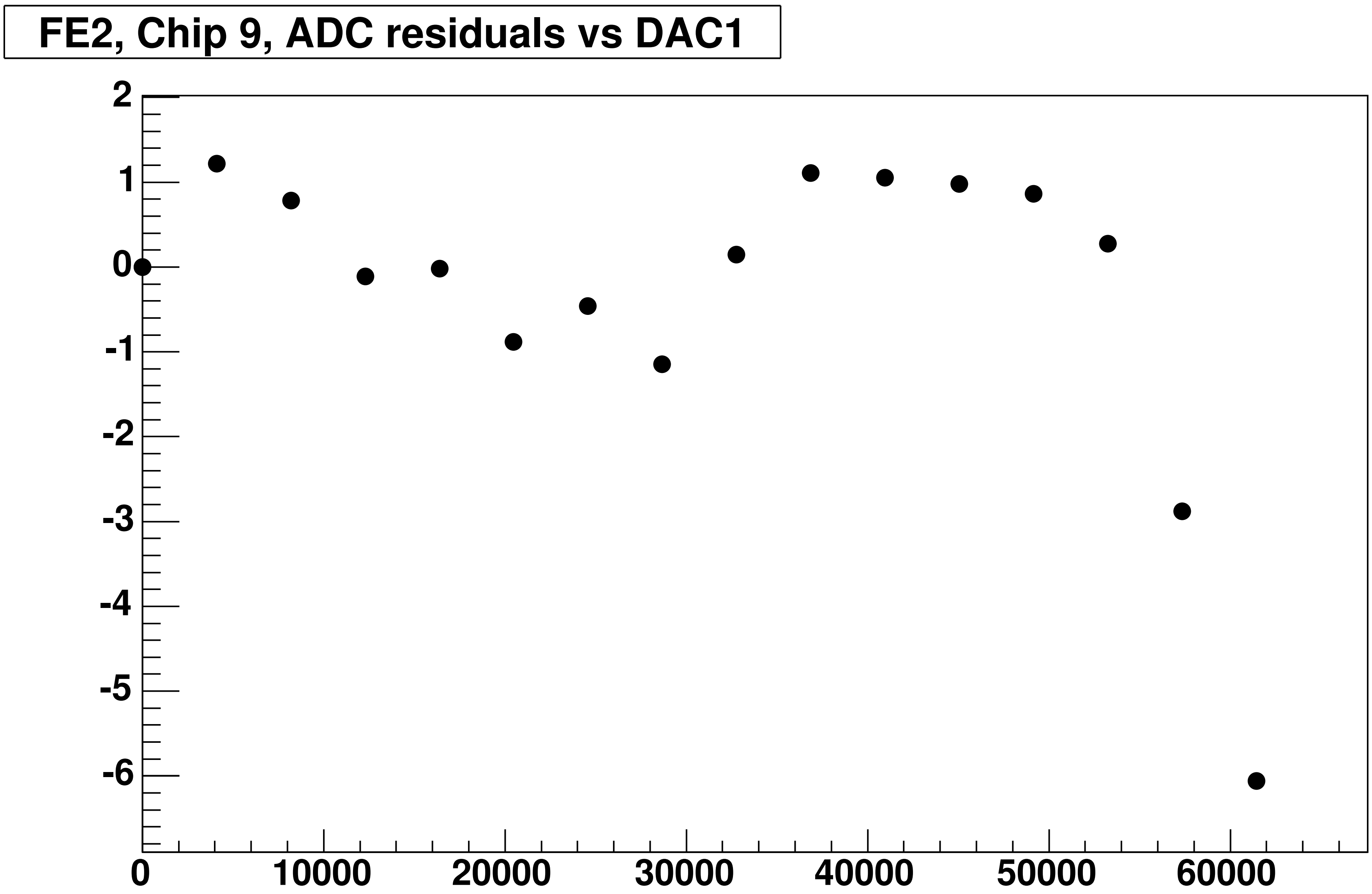

FE2, Chip 9, ADC residuals vs DAC0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

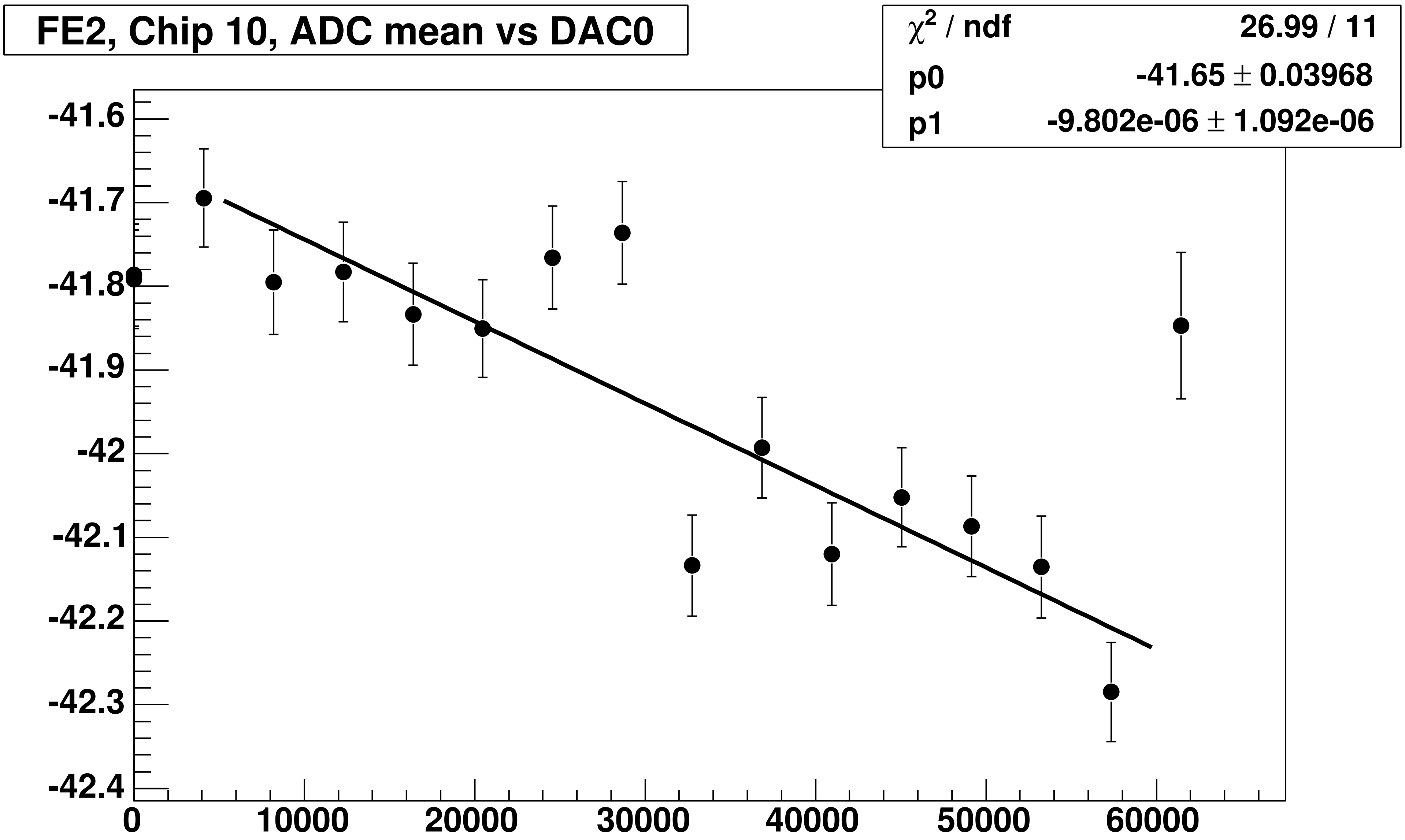


FE2, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1996 / 11
p0 -36.76 ± 0.04315
p1 0.4515 ± 1.376e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

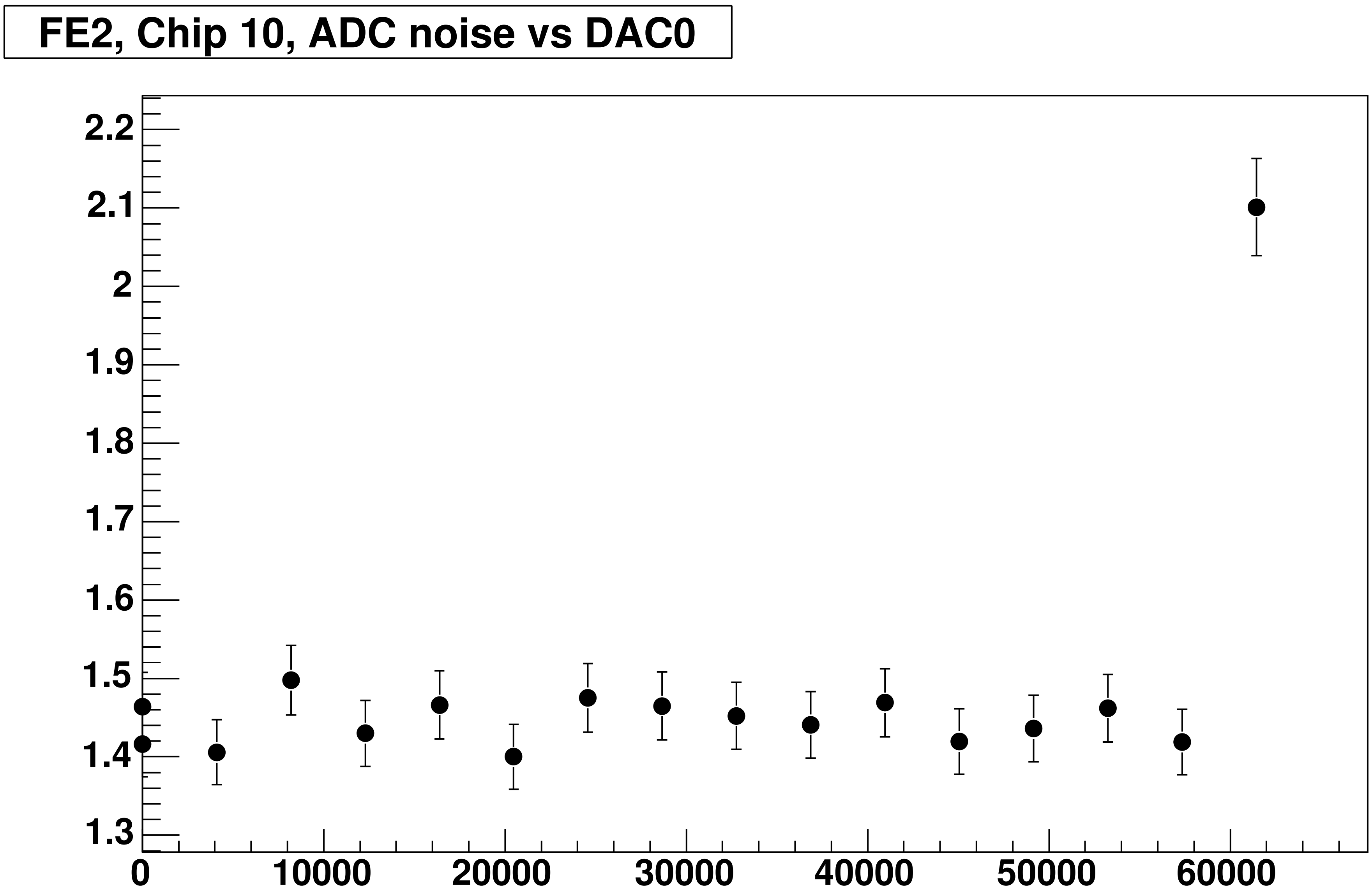


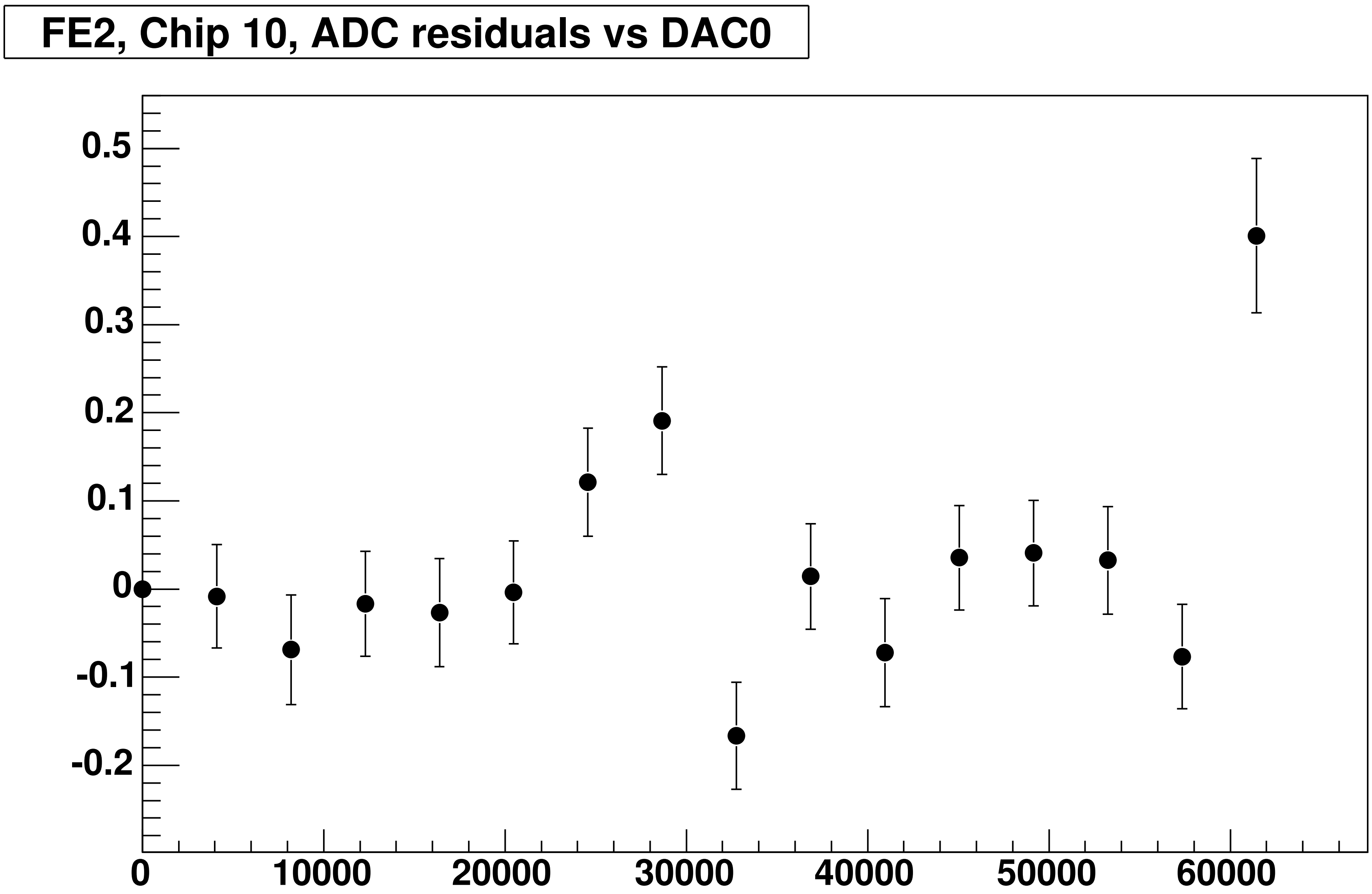
FE2, Chip 9, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

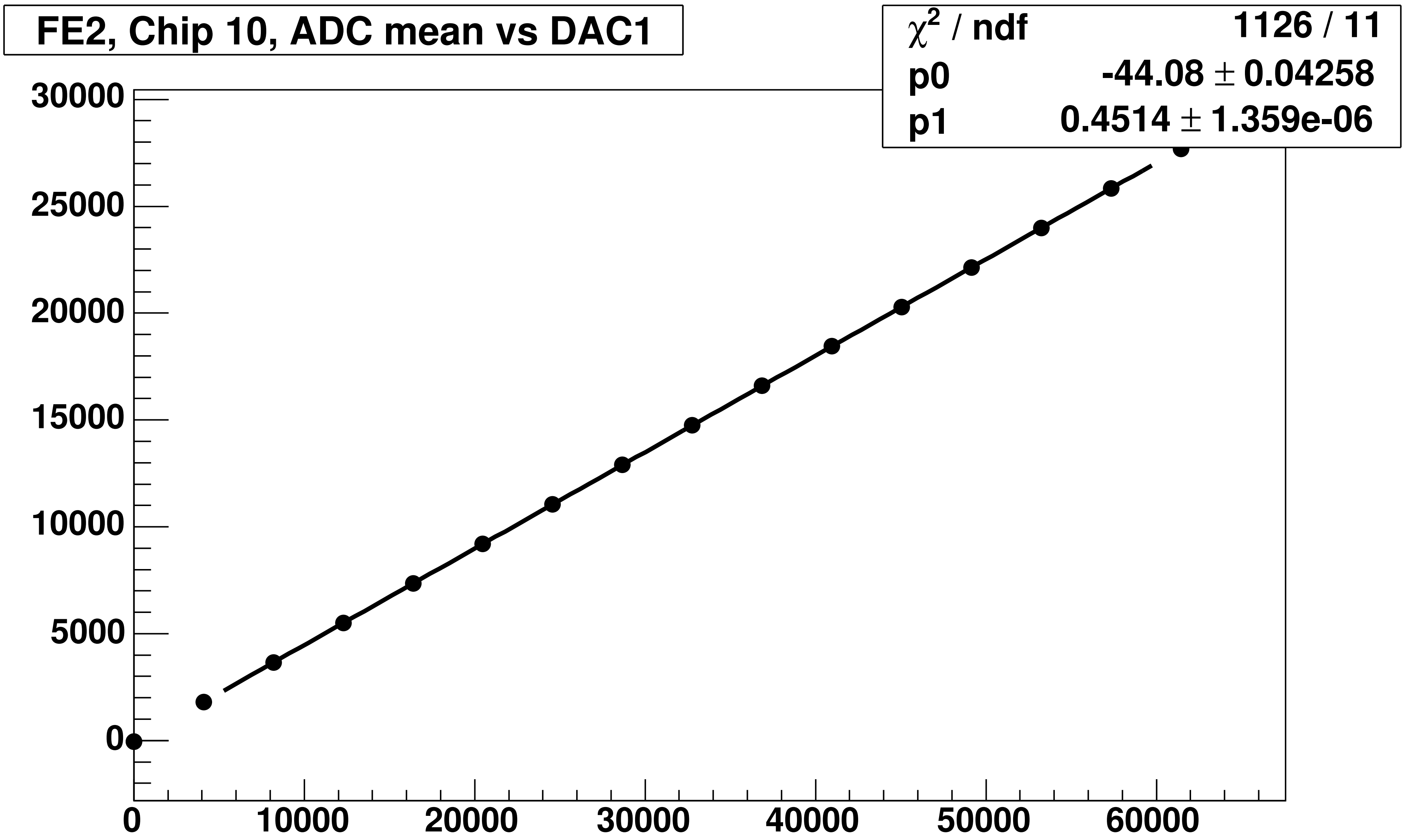

FE2, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



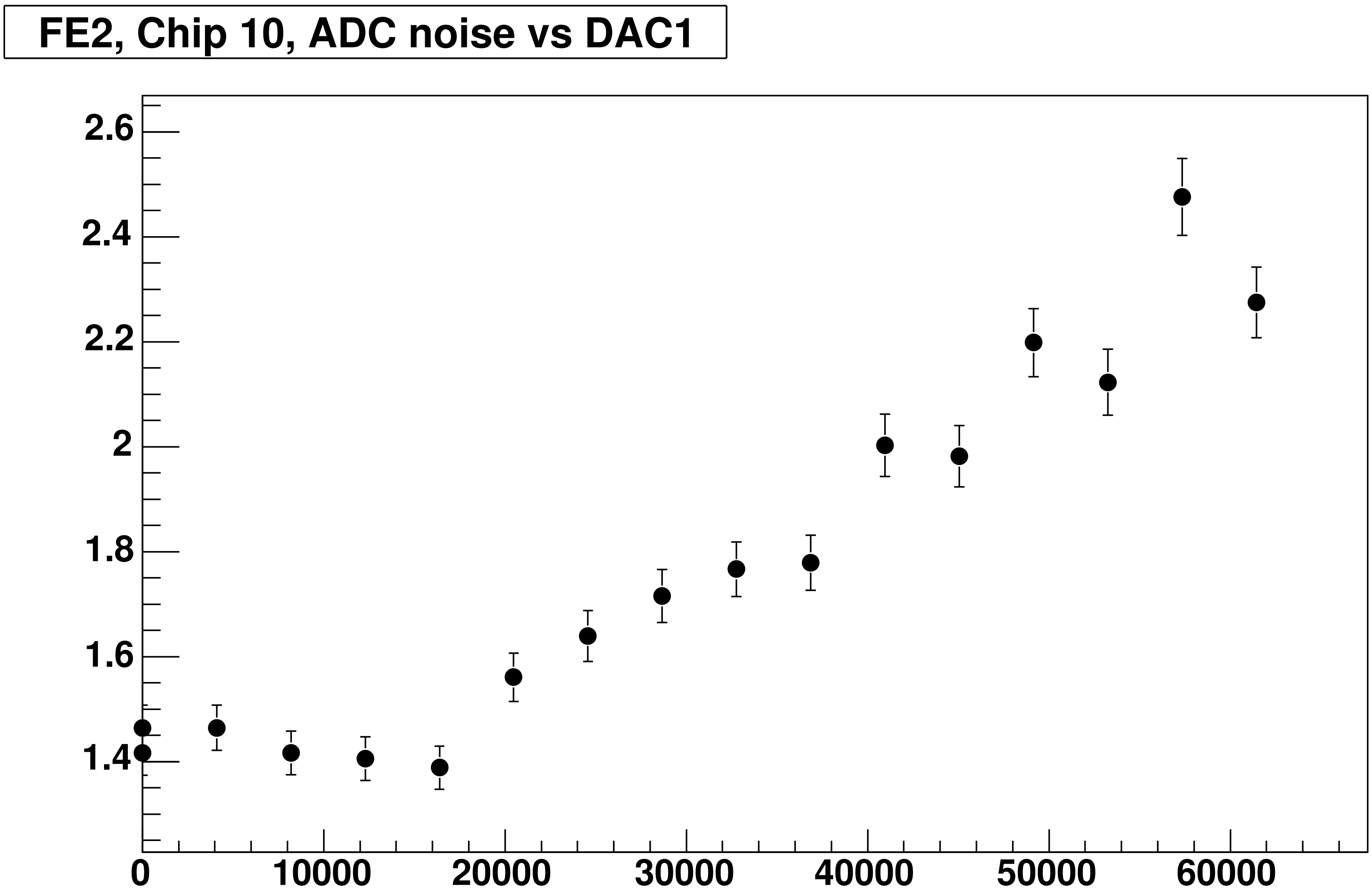
FE2, Chip 10, ADC mean vs DAC0
χ^2 / ndf 26.99 / 11
p0 -41.65 ± 0.03968
p1 -9.802e-06 ± 1.092e-06
-41.6
-41.7
-41.8
-41.9
-42
-42.1
-42.2
-42.3
-42.4
0
10000
20000
30000
40000
50000
60000

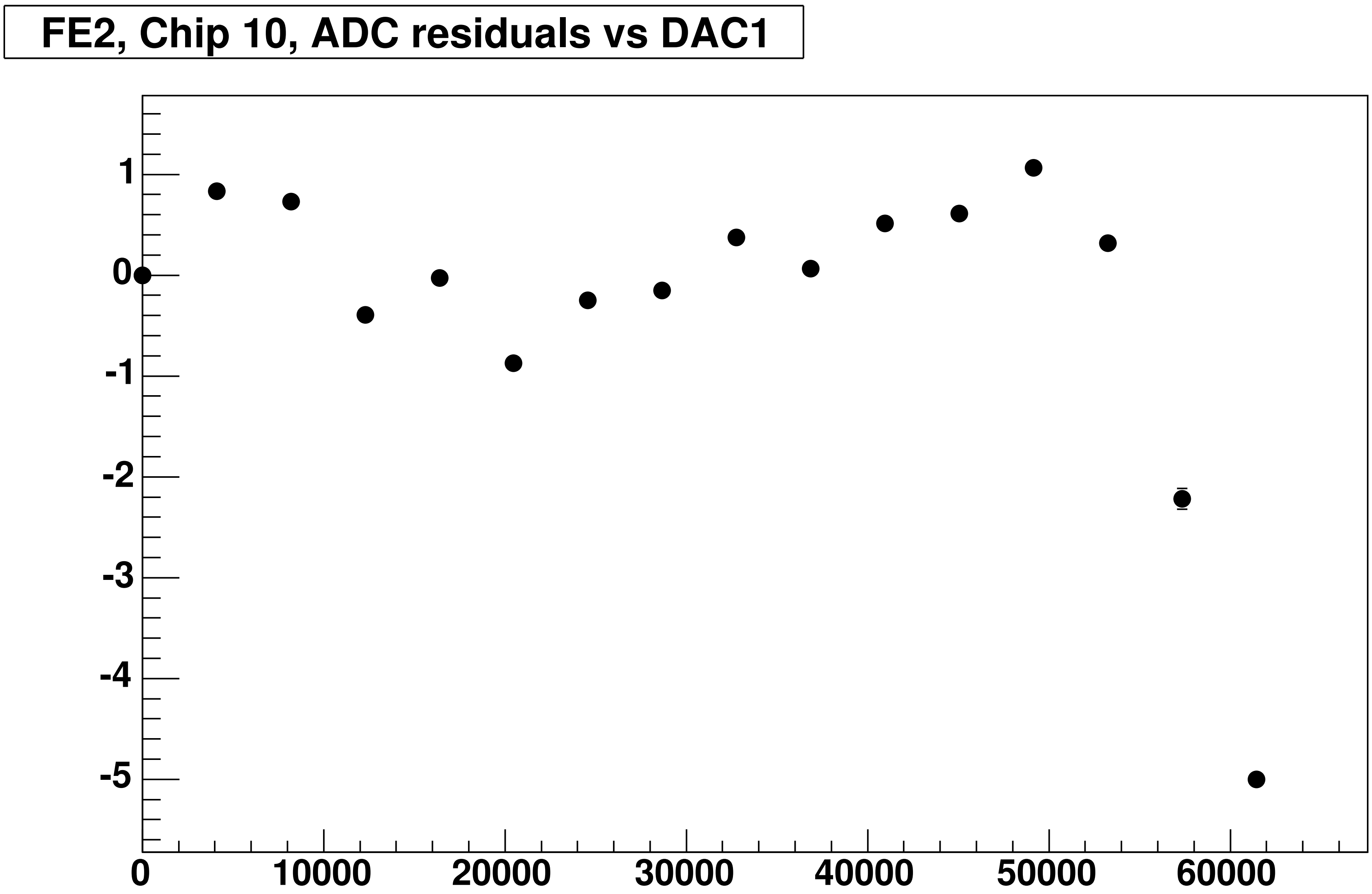

FE2, Chip 10, ADC noise vs DAC0
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000


FE2, Chip 10, ADC residuals vs DAC0
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

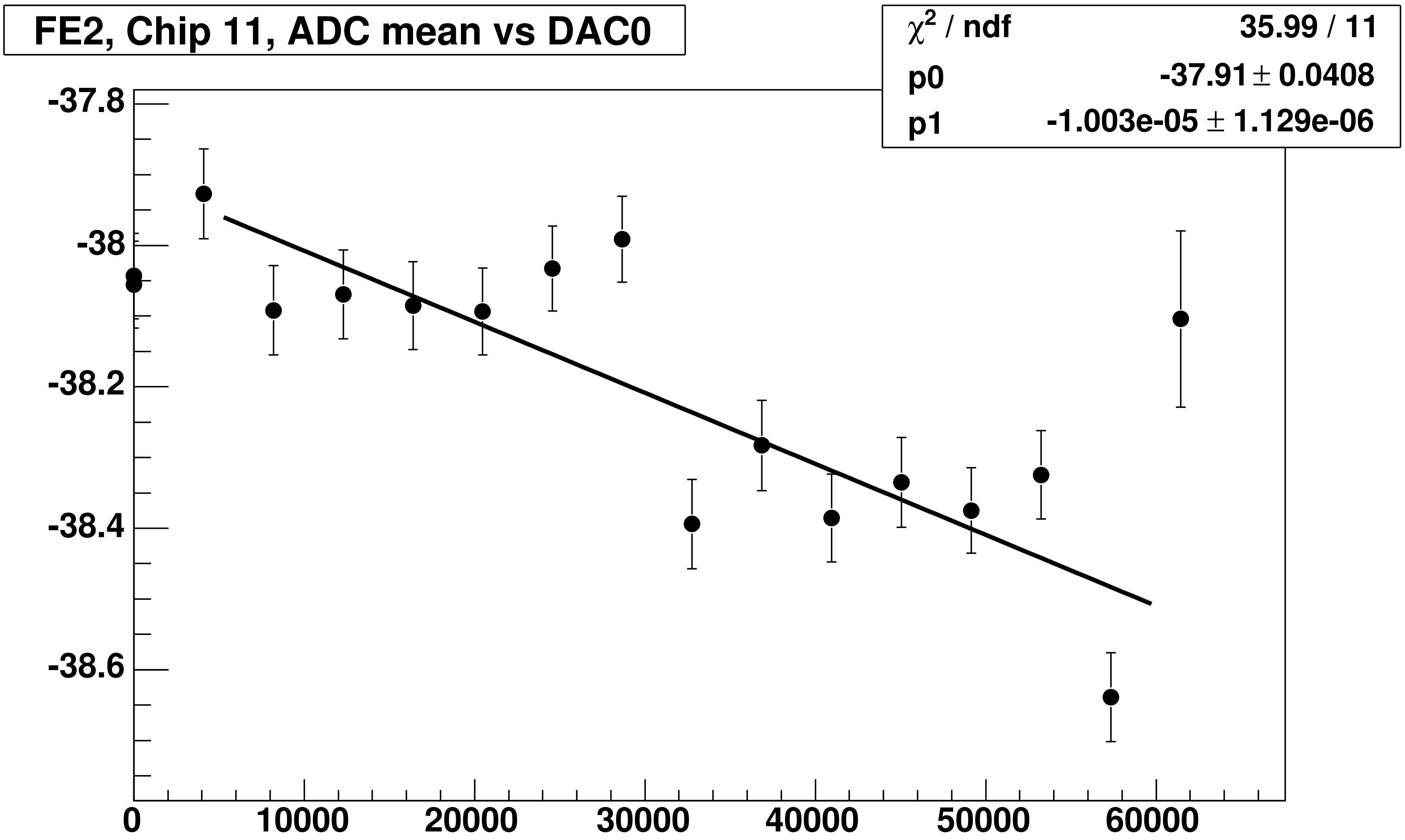


FE2, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1126 / 11
p0 -44.08 ± 0.04258
p1 0.4514 ± 1.359e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

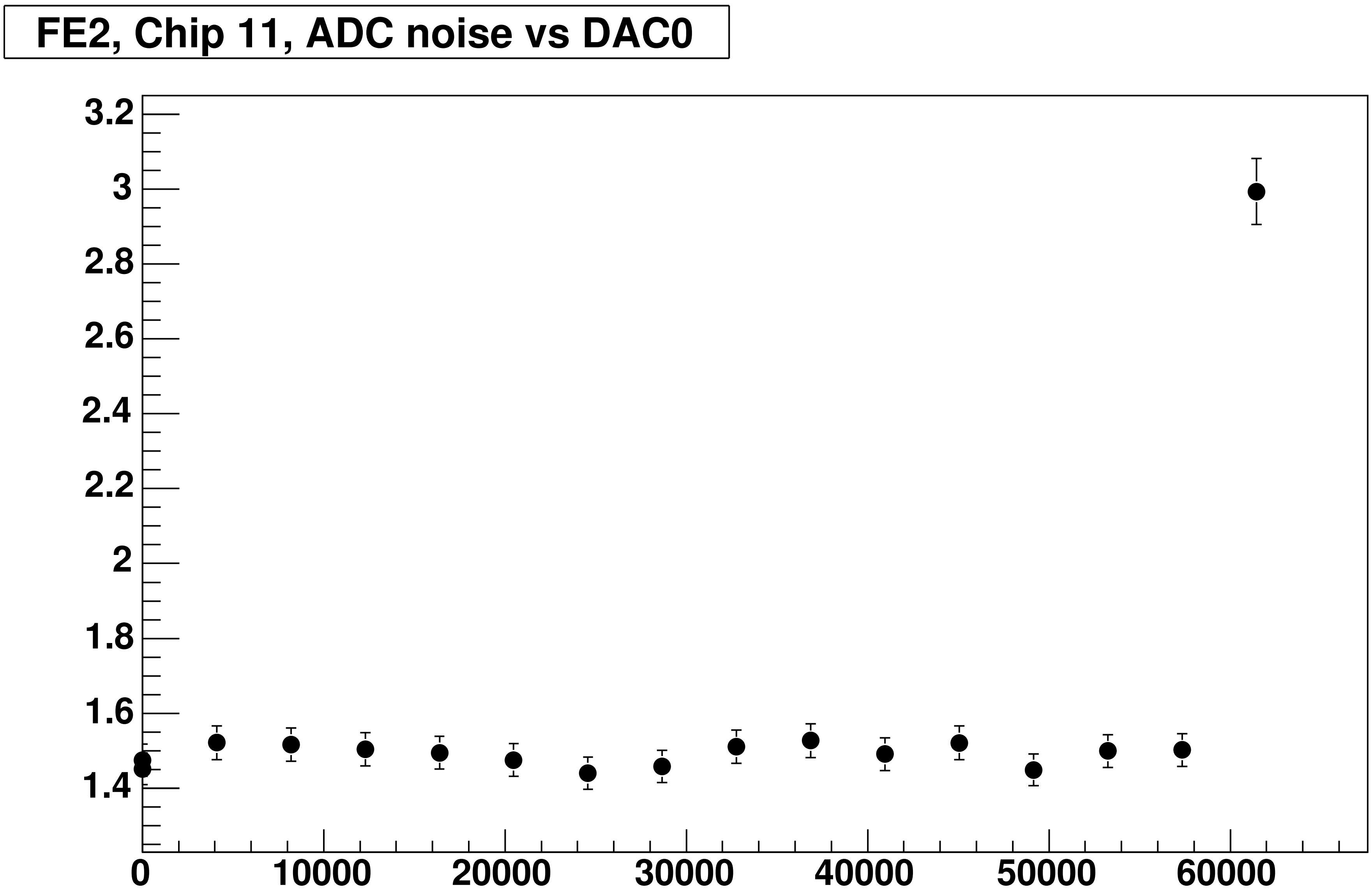

FE2, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

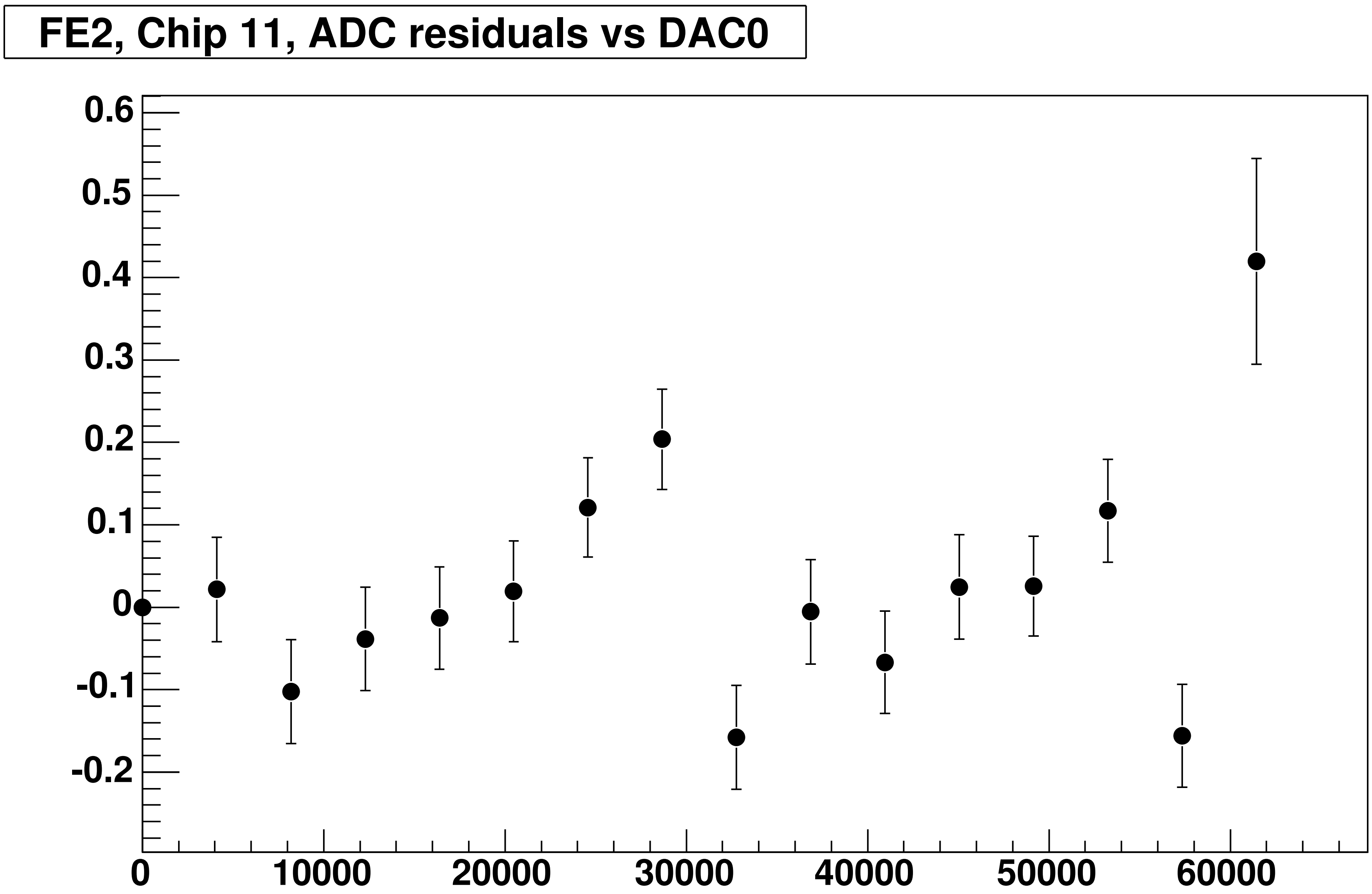


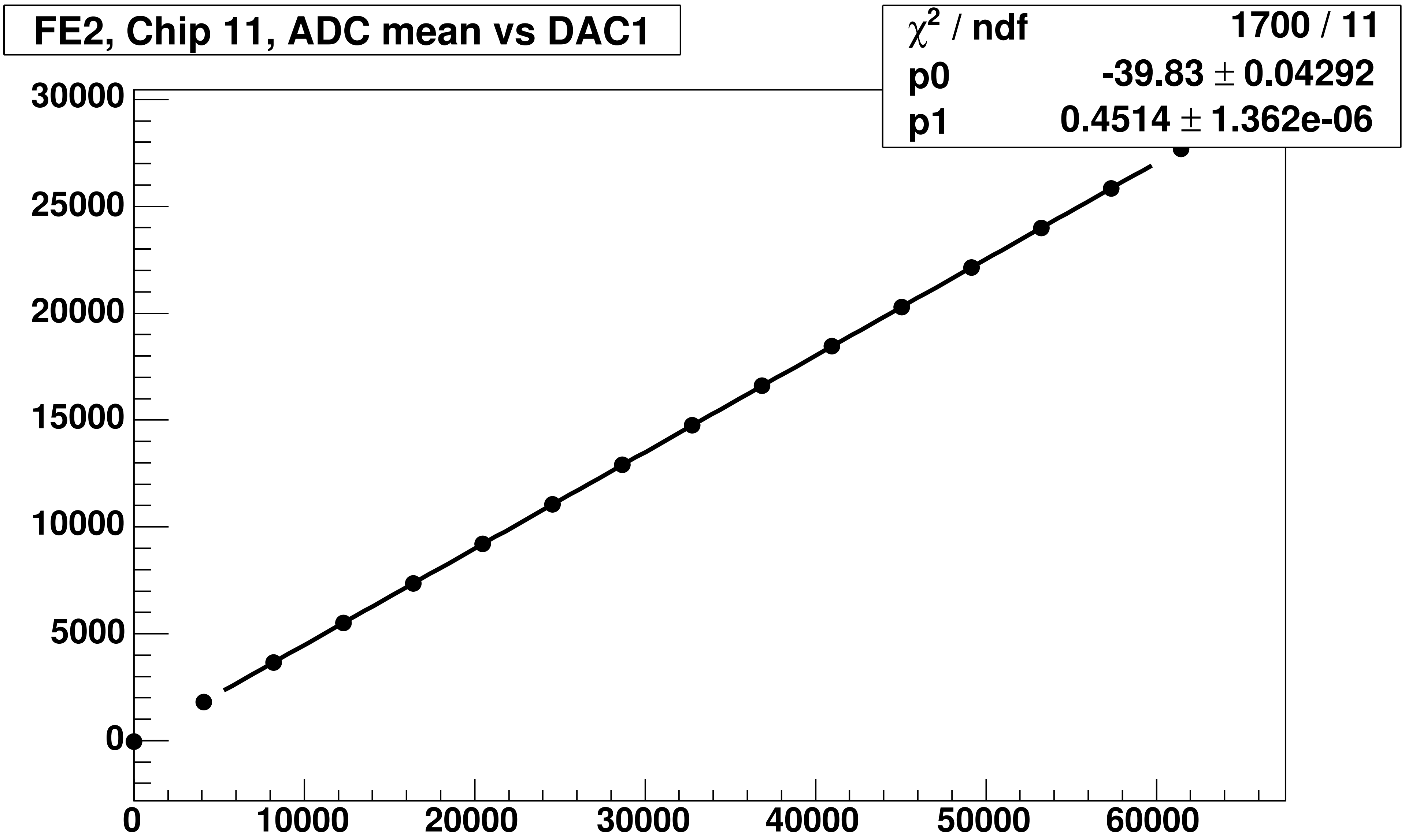
FE2, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

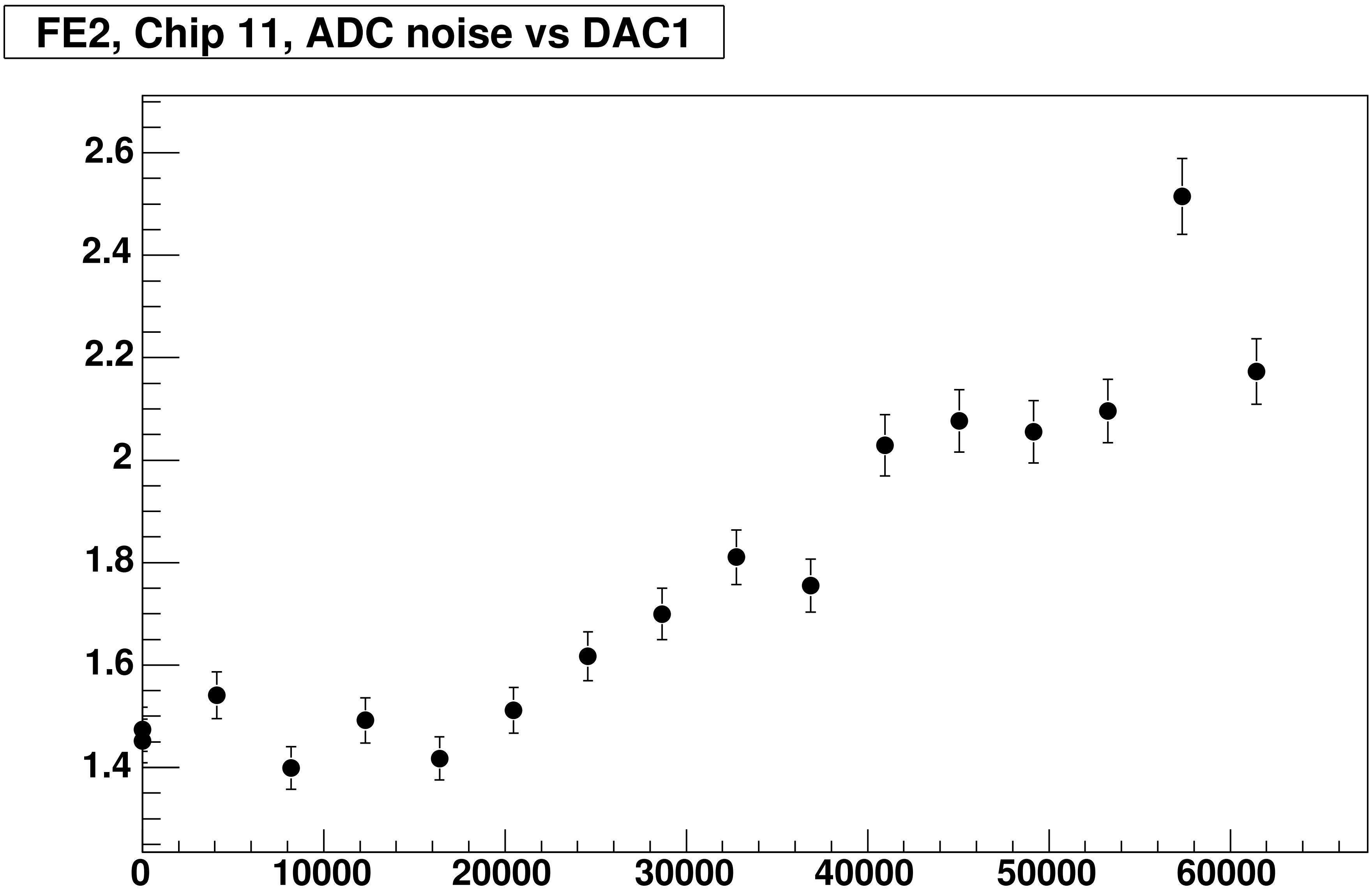


FE2, Chip 11, ADC mean vs DAC0
χ^2 / ndf 35.99 / 11
p0 -37.91 ± 0.0408
p1 -1.003e-05 ± 1.129e-06
-37.8
-38
-38.2
-38.4
-38.6
0
10000
20000
30000
40000
50000
60000

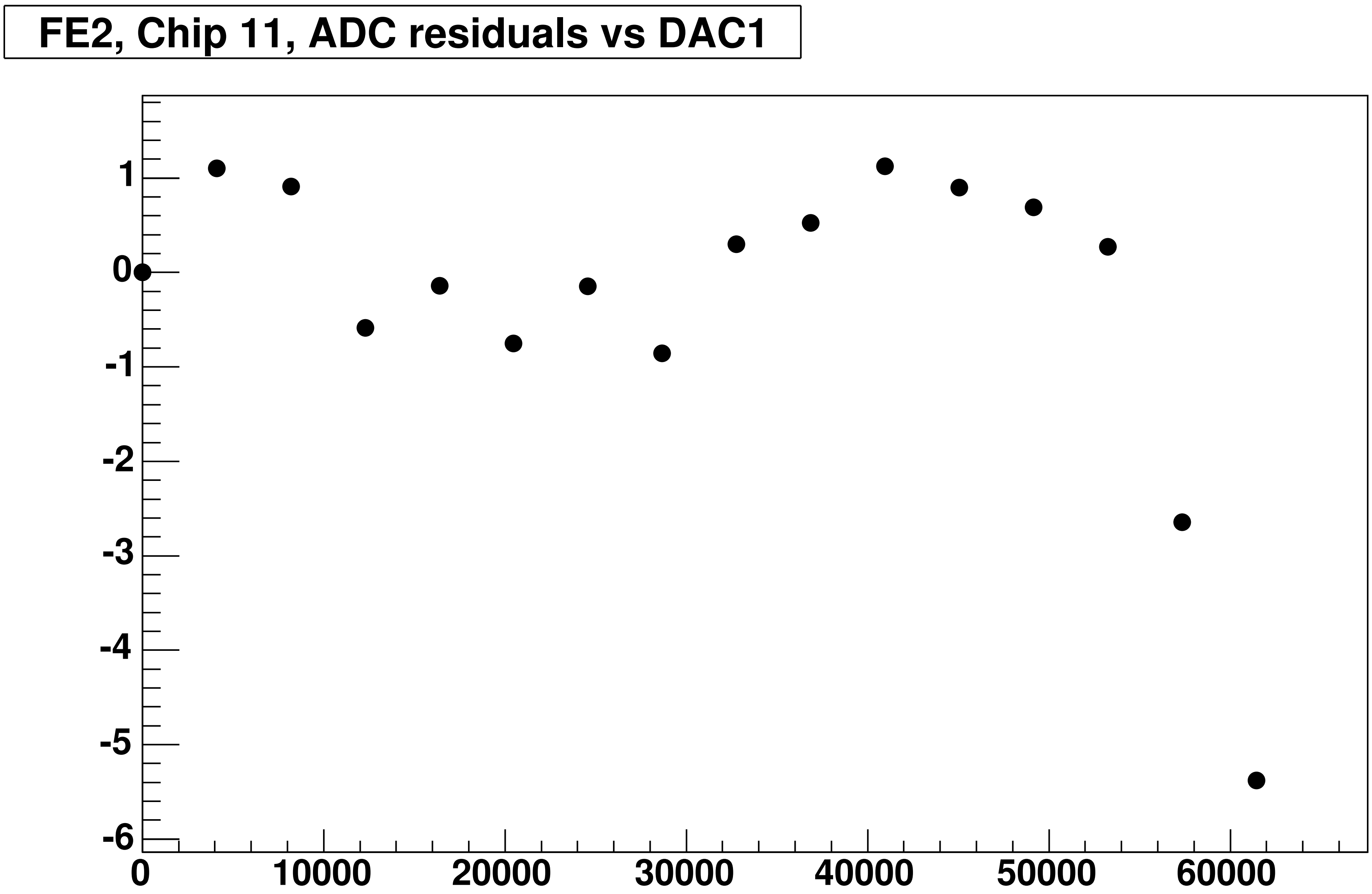

FE2, Chip 11, ADC noise vs DAC0
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

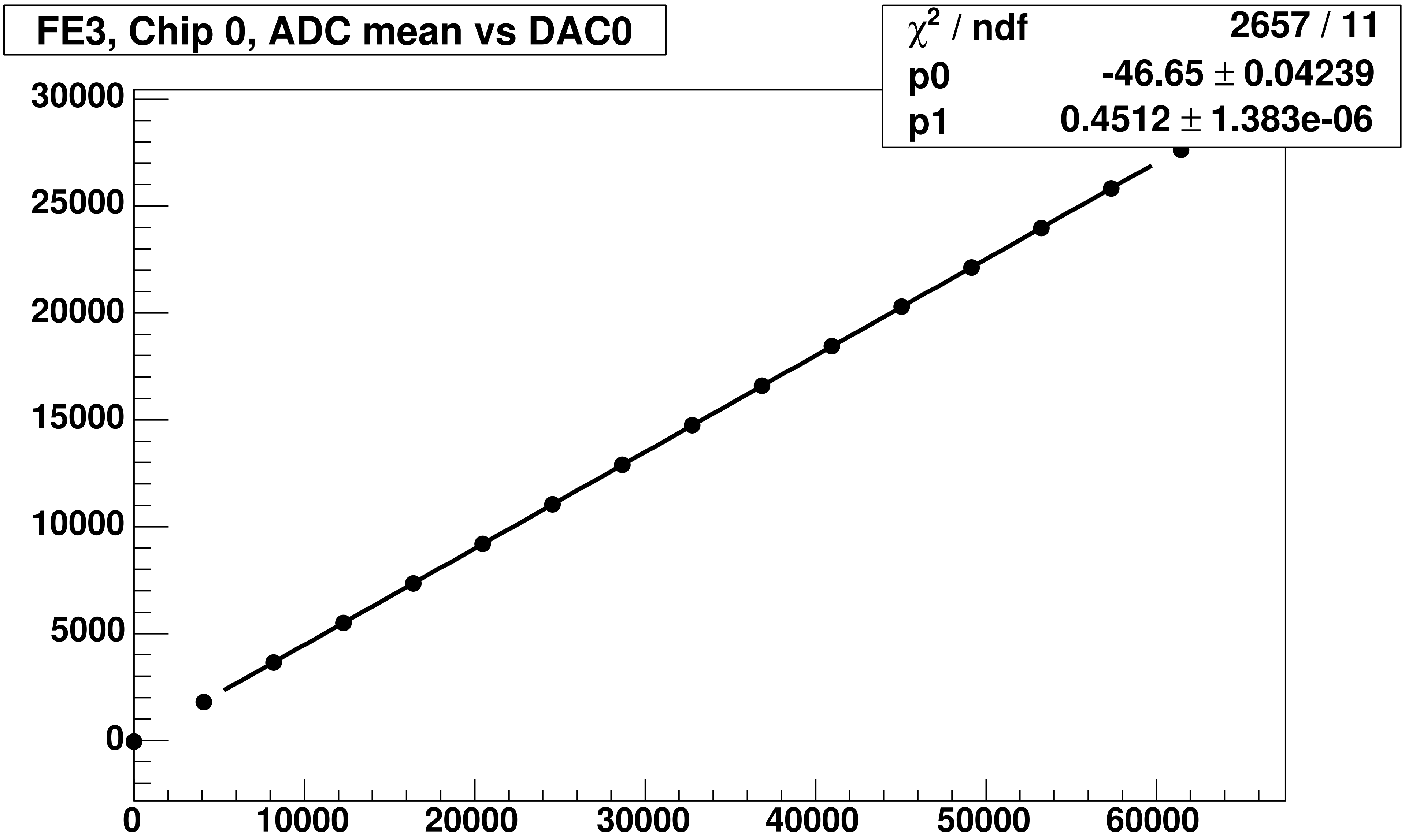

FE2, Chip 11, ADC residuals vs DAC0
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

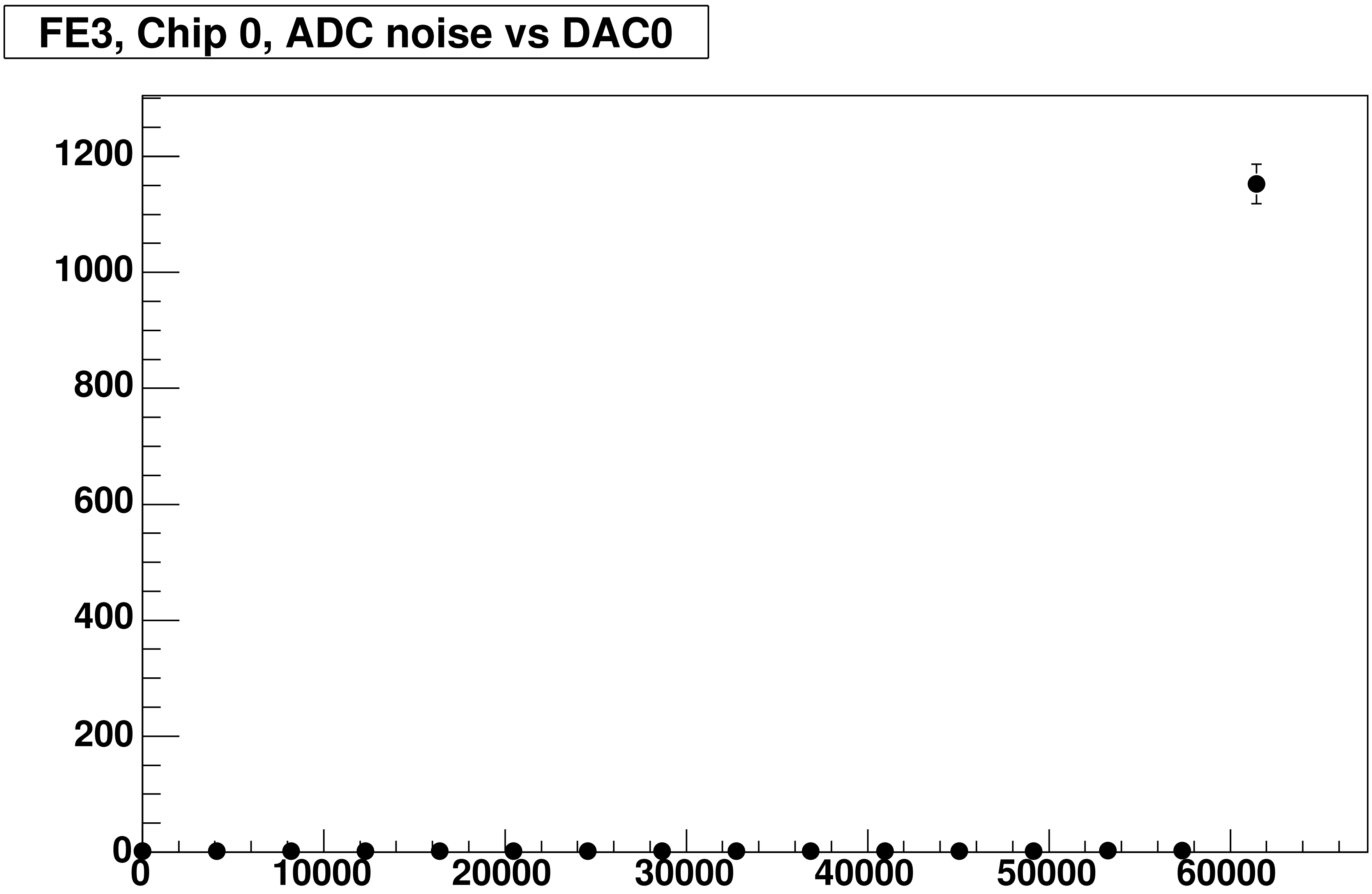

FE2, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1700 / 11
p0 -39.83 ± 0.04292
p1 0.4514 ± 1.362e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



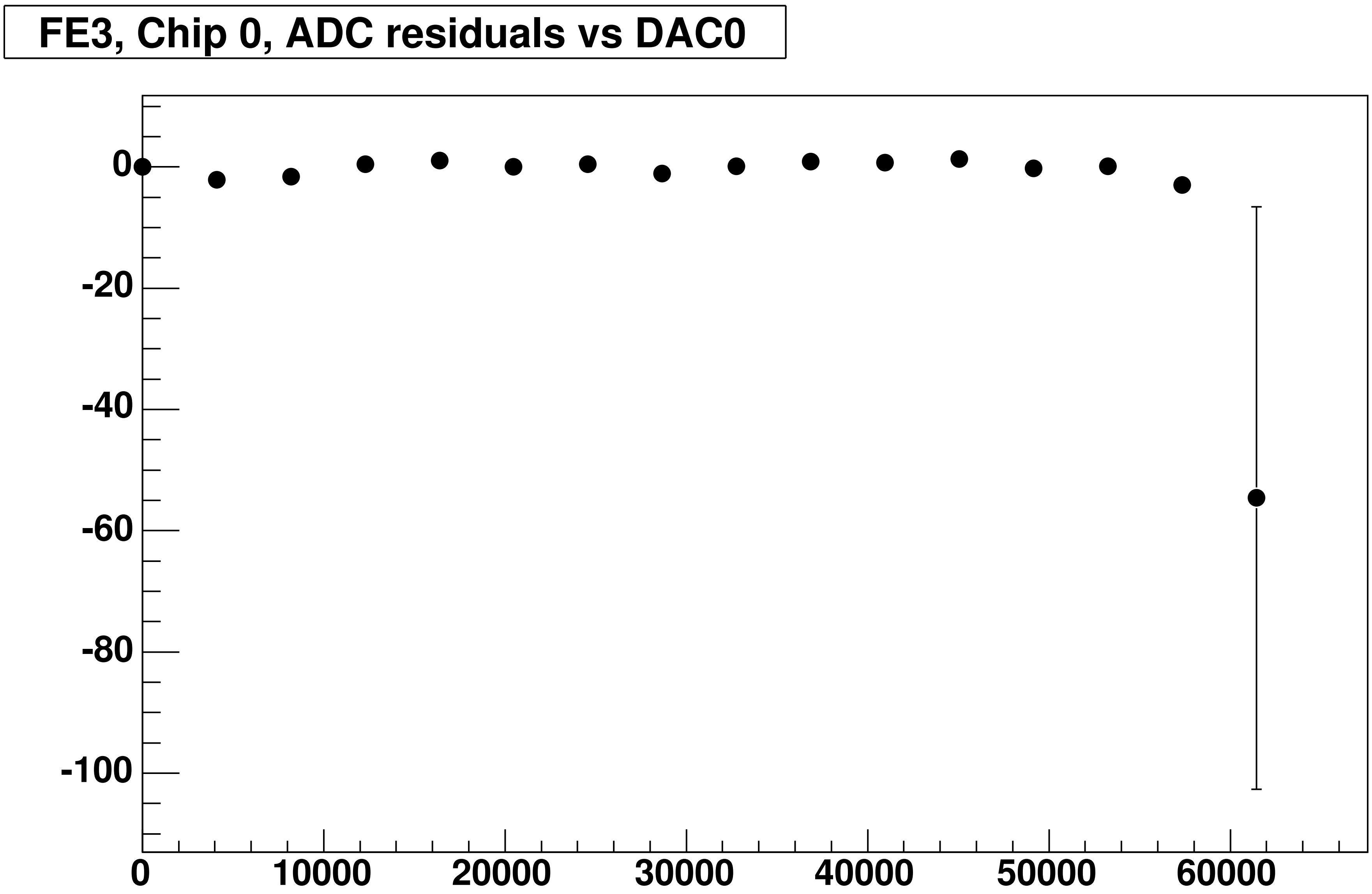
FE2, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

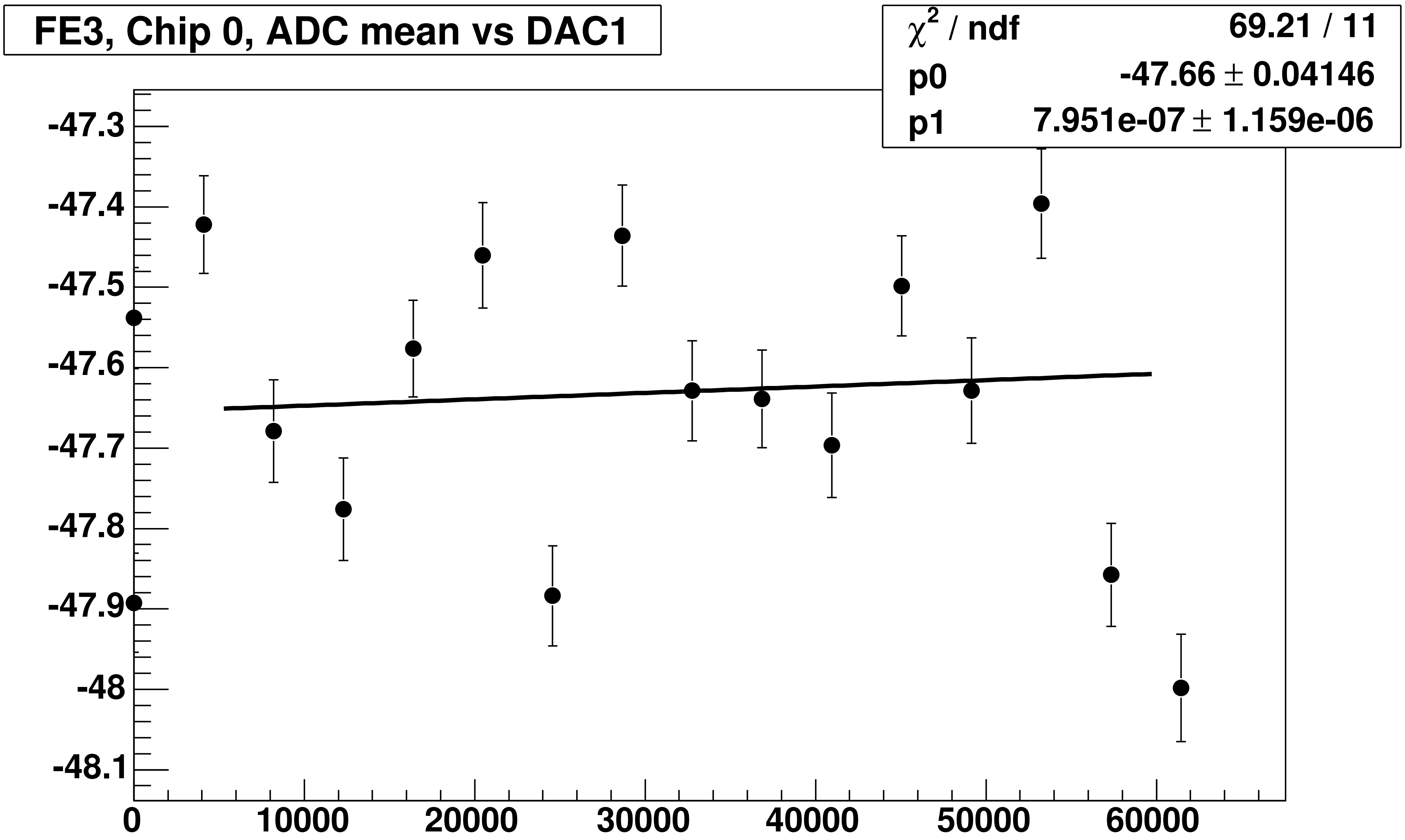

FE2, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

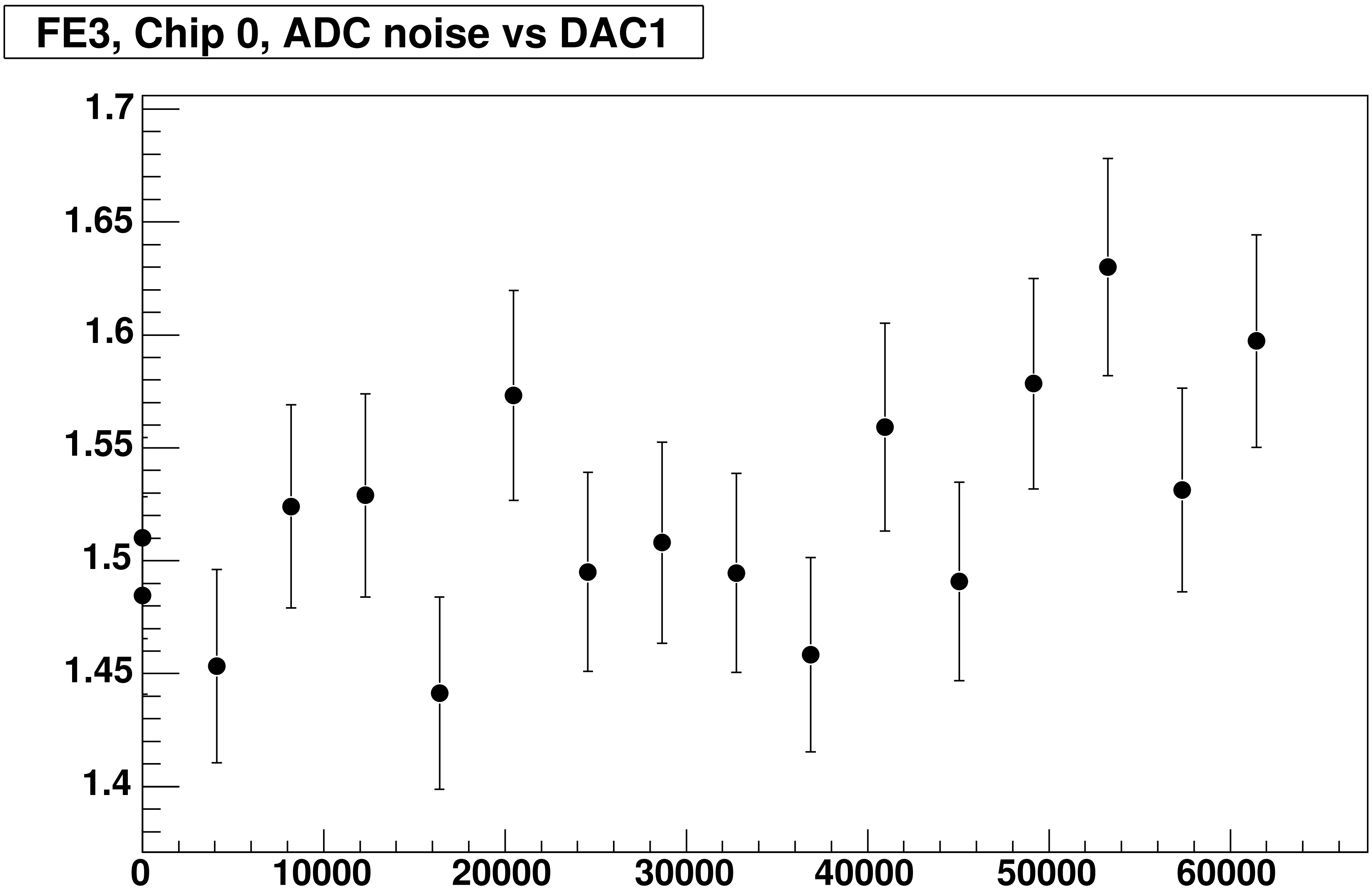

FE3, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2657 / 11
p0 -46.65 ± 0.04239
p1 0.4512 ± 1.383e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

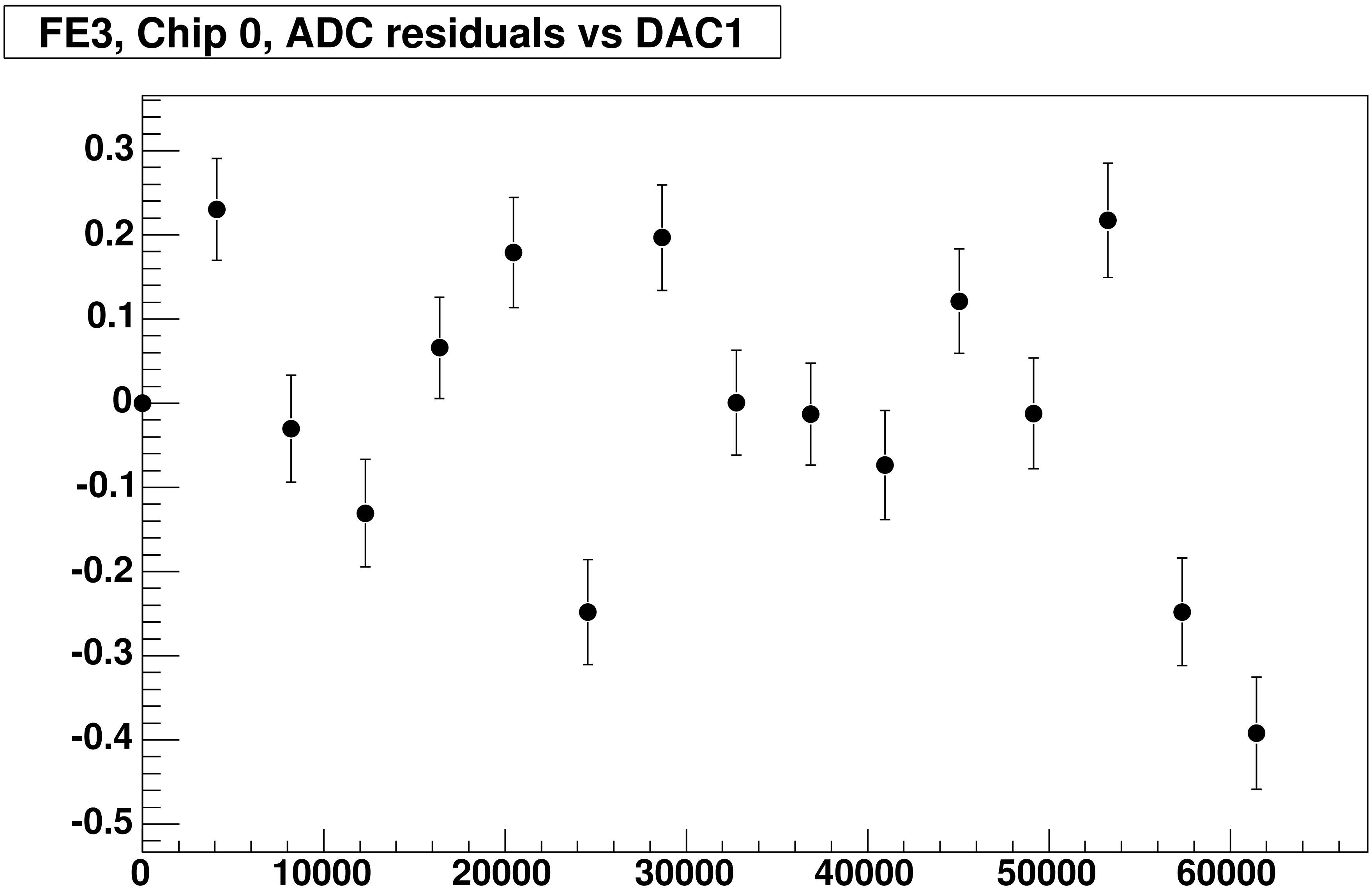


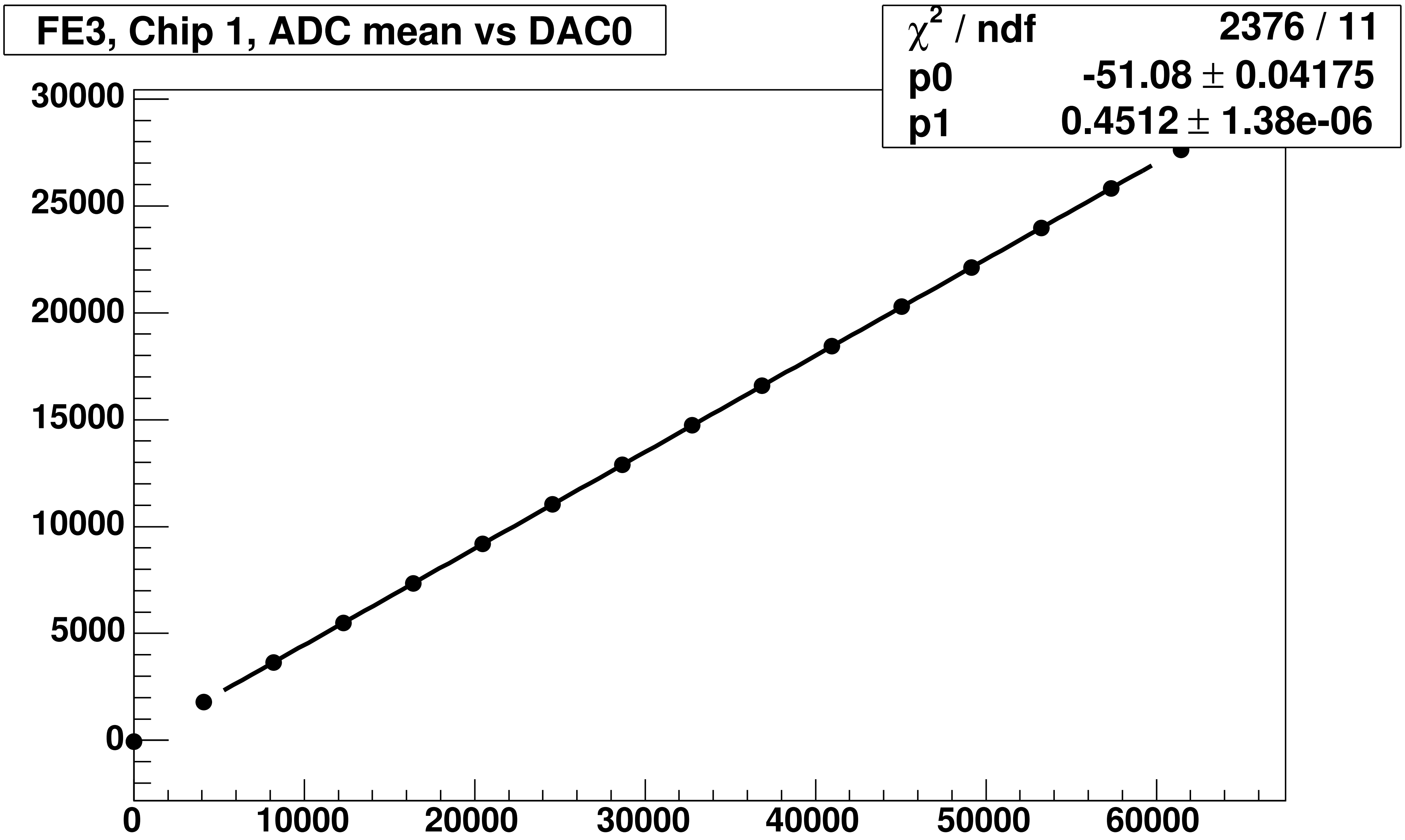
FE3, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

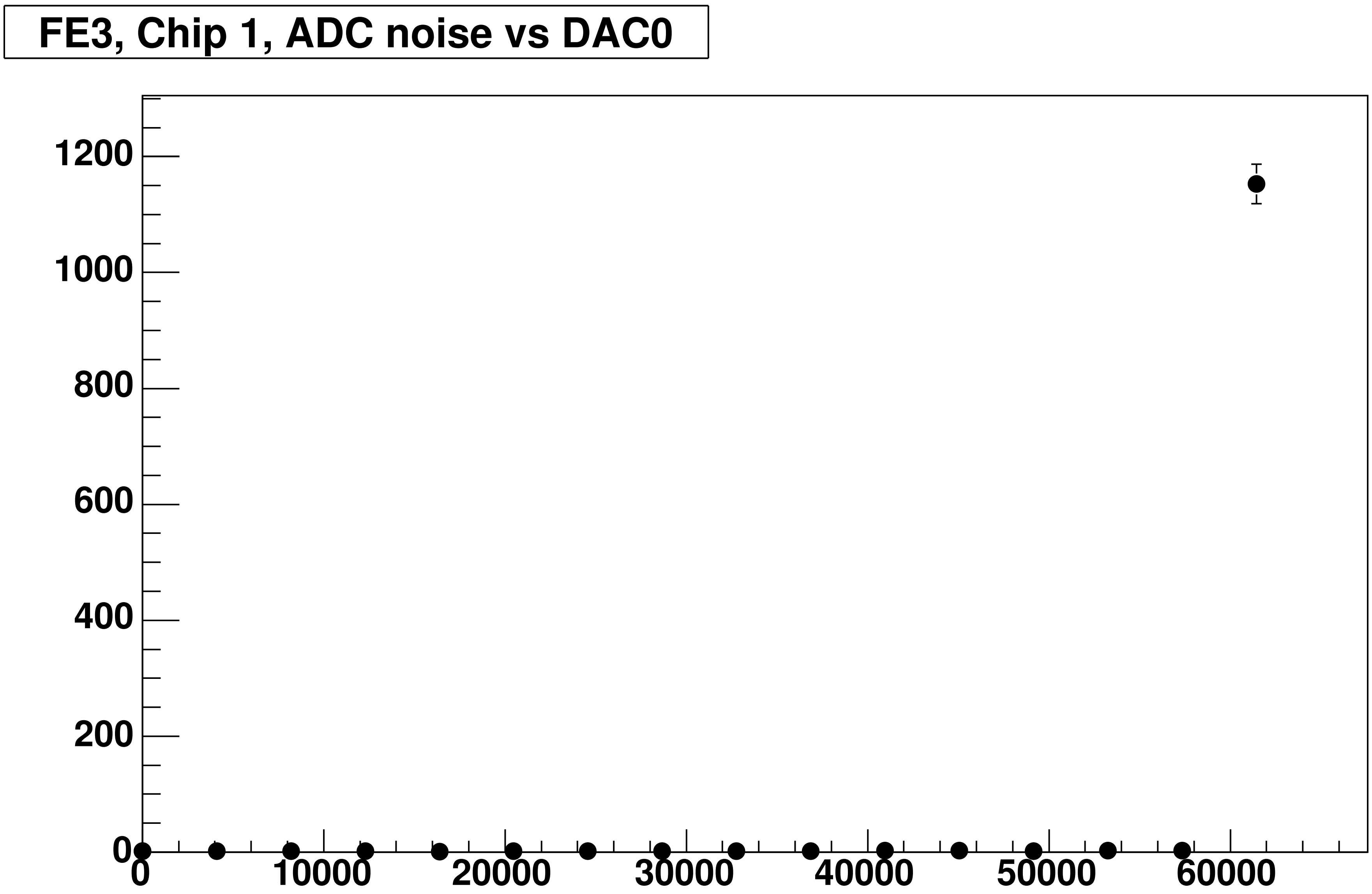

FE3, Chip 0, ADC mean vs DAC1
χ^2 / ndf 69.21 / 11
p0 -47.66 ± 0.04146
p1 7.951e-07 ± 1.159e-06
-47.3
-47.4
-47.5
-47.6
-47.7
-47.8
-47.9
-48
-48.1
0
10000
20000
30000
40000
50000
60000


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

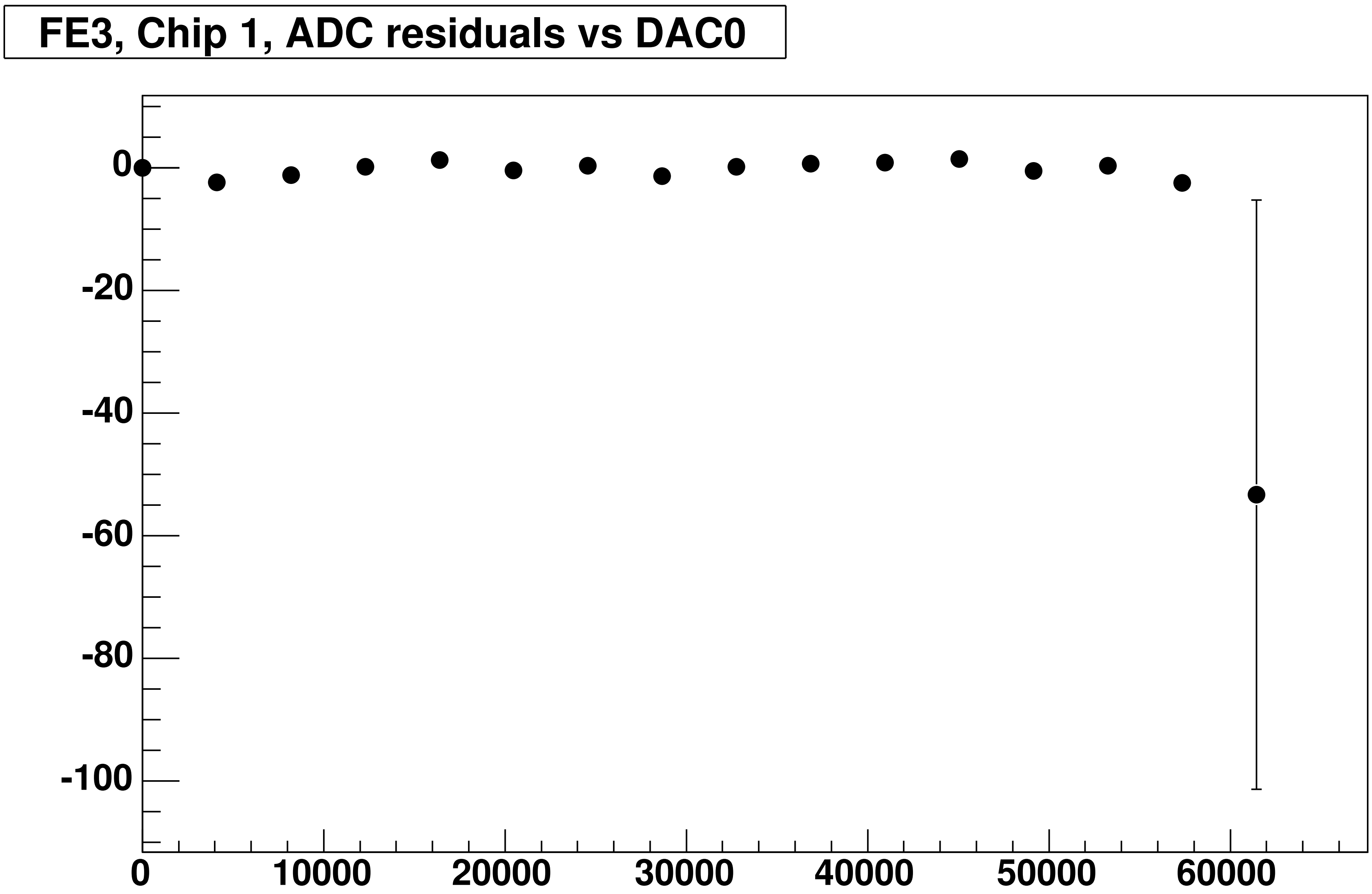

FE3, Chip 0, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000



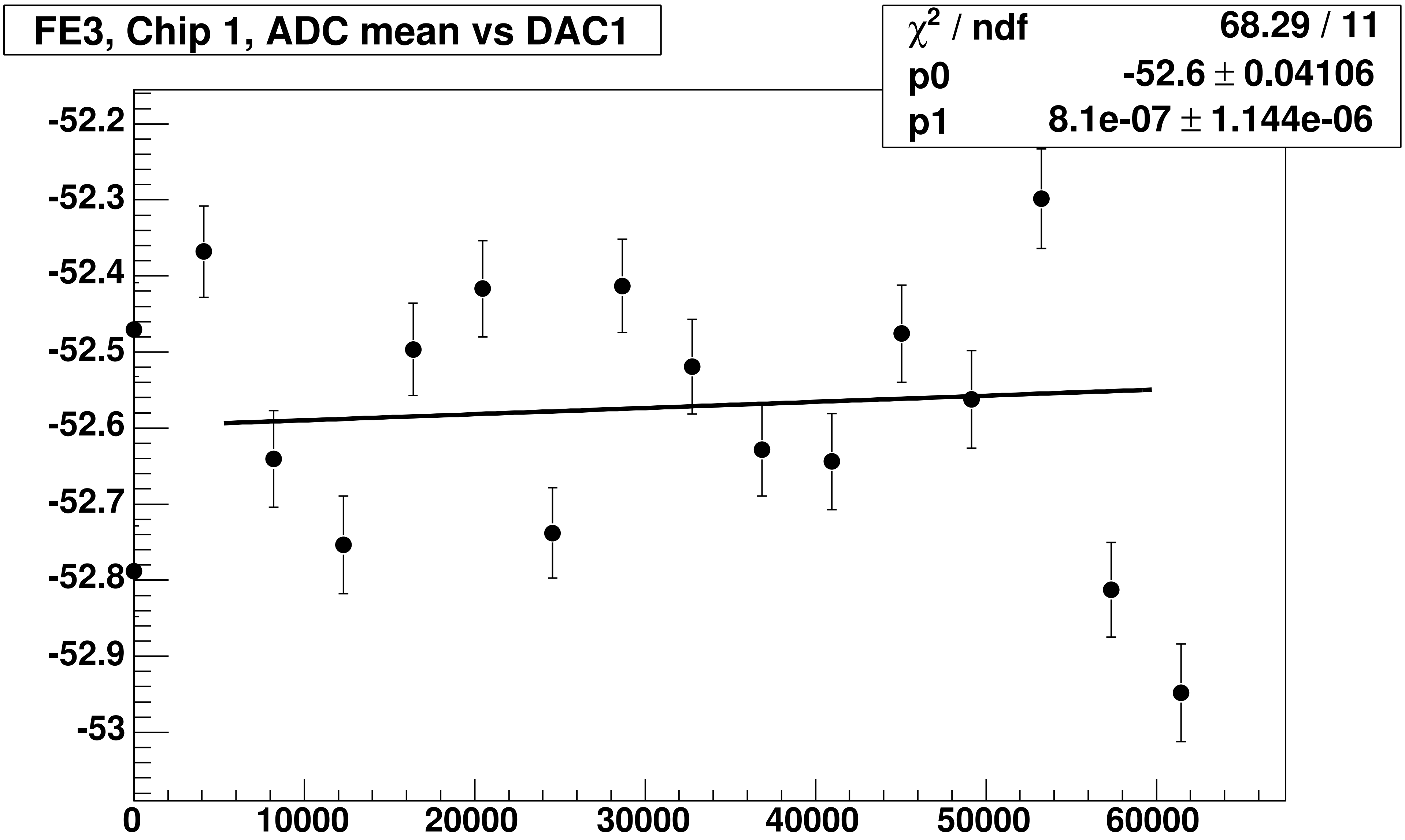
FE3, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2376 / 11
p0 -51.08 ± 0.04175
p1 0.4512 ± 1.38e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

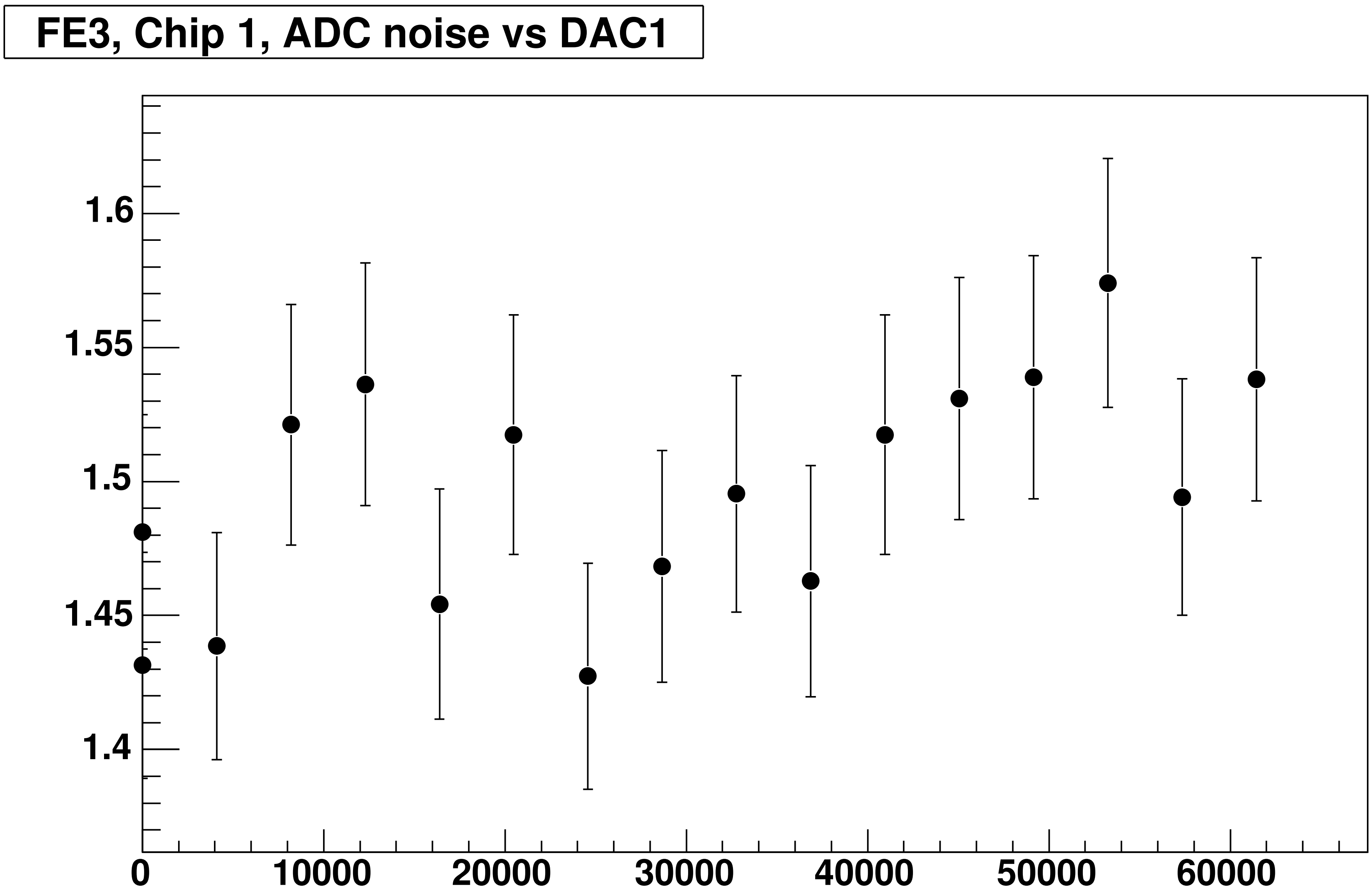


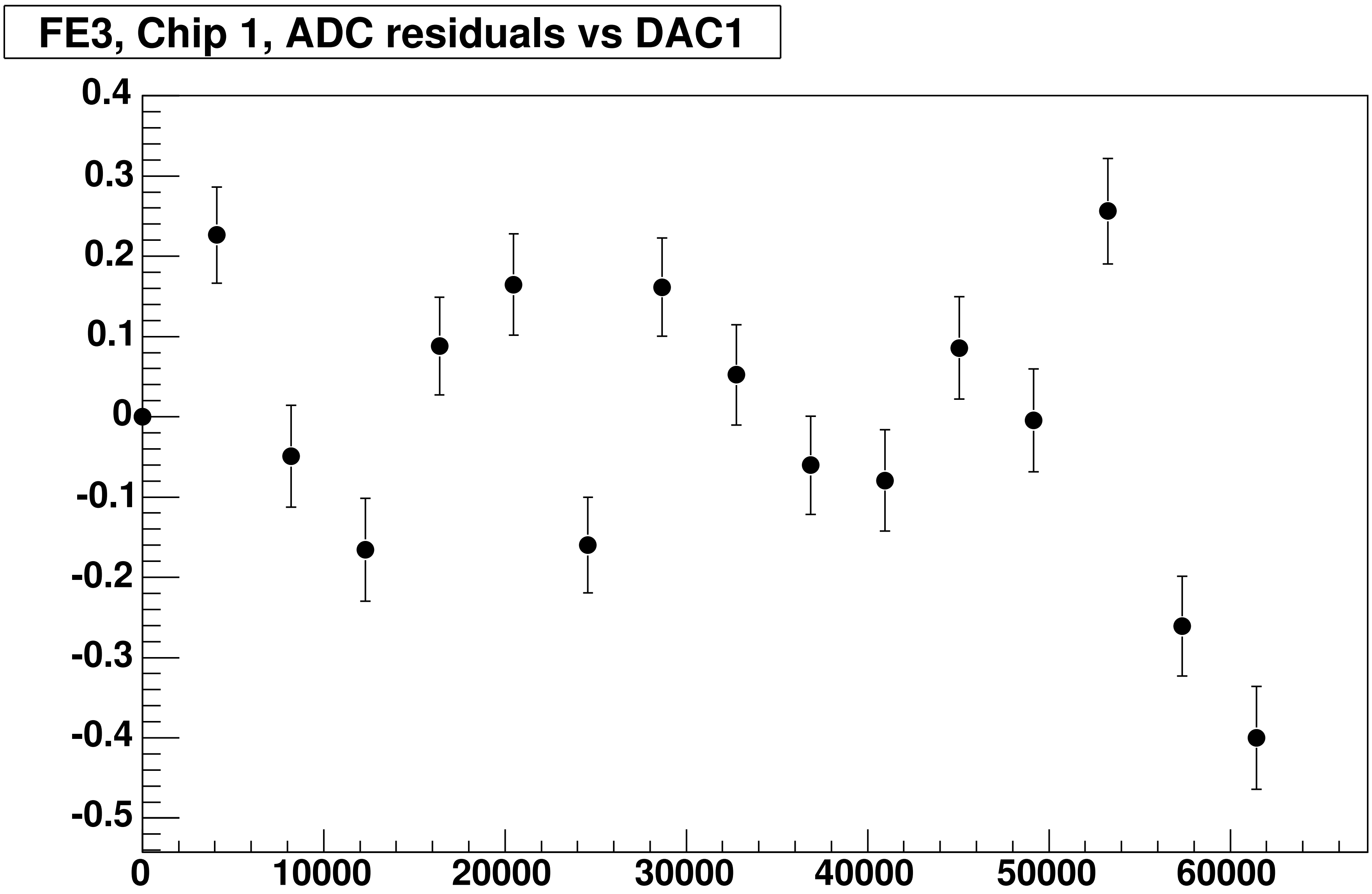
FE3, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

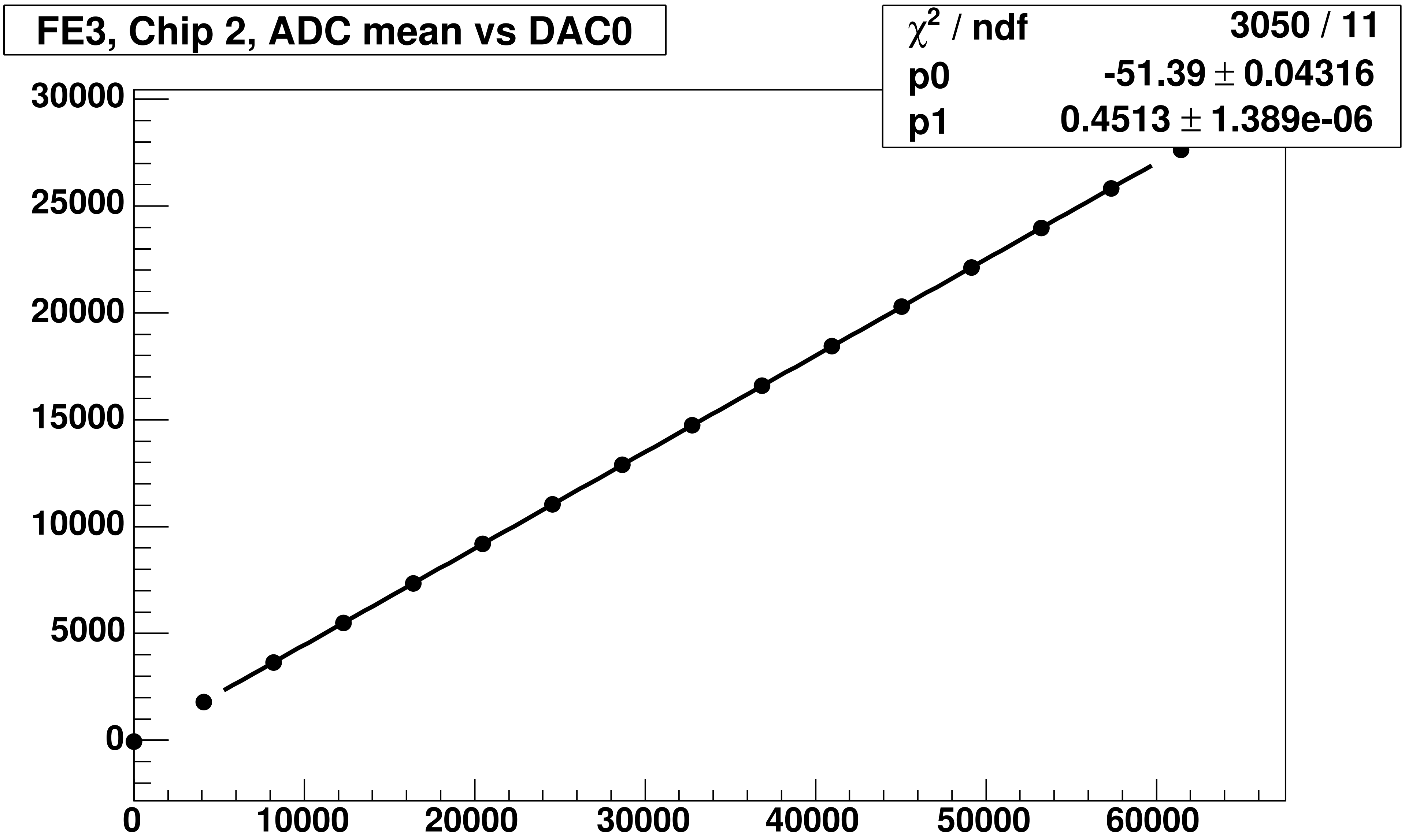


FE3, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

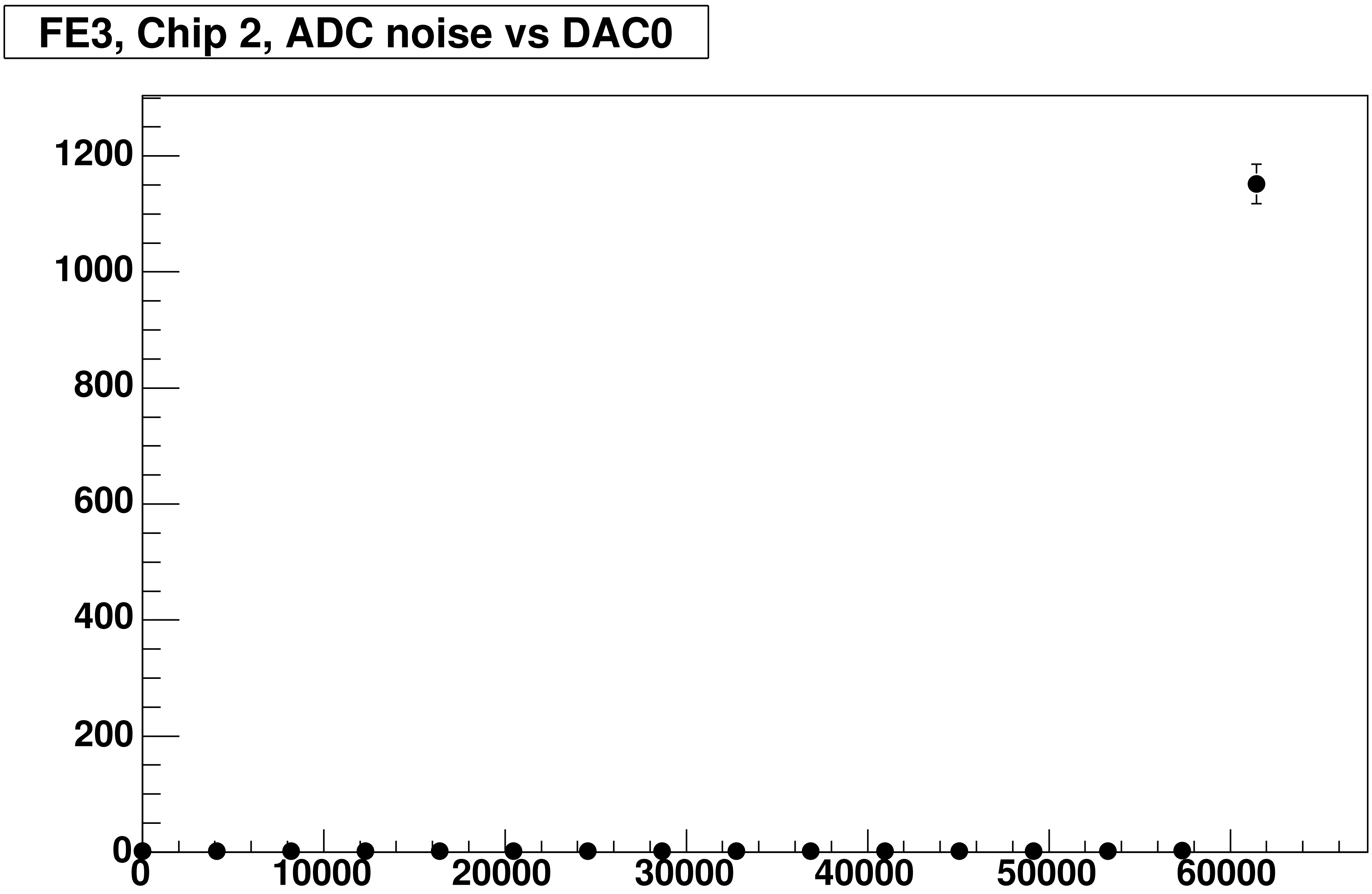

FE3, Chip 1, ADC mean vs DAC1
χ^2 / ndf 68.29 / 11
p0 -52.6 ± 0.04106
p1 8.1e-07 ± 1.144e-06
-52.2
-52.3
-52.4
-52.5
-52.6
-52.7
-52.8
-52.9
-53
0
10000
20000
30000
40000
50000
60000

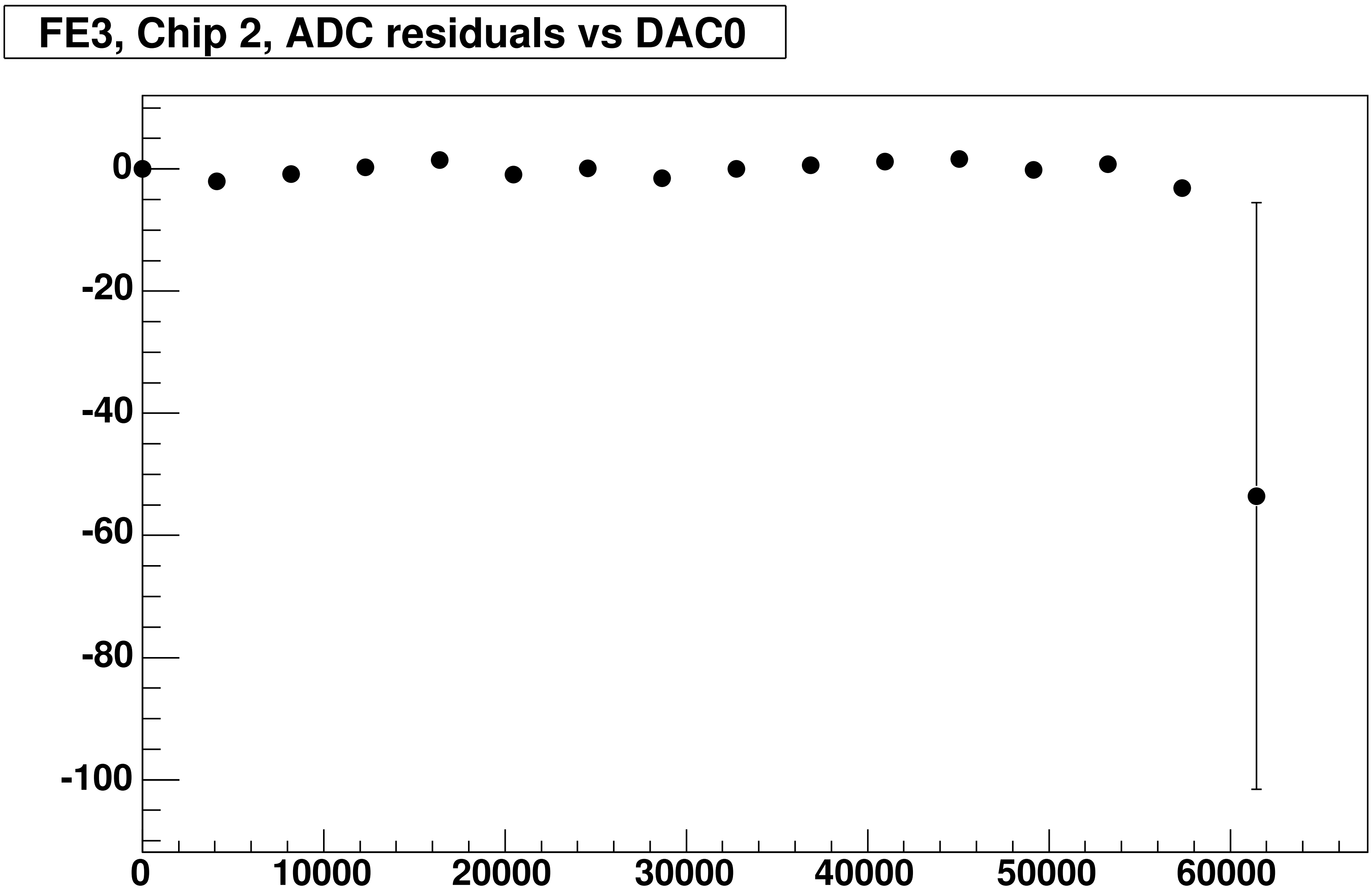

FE3, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


FE3, Chip 1, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

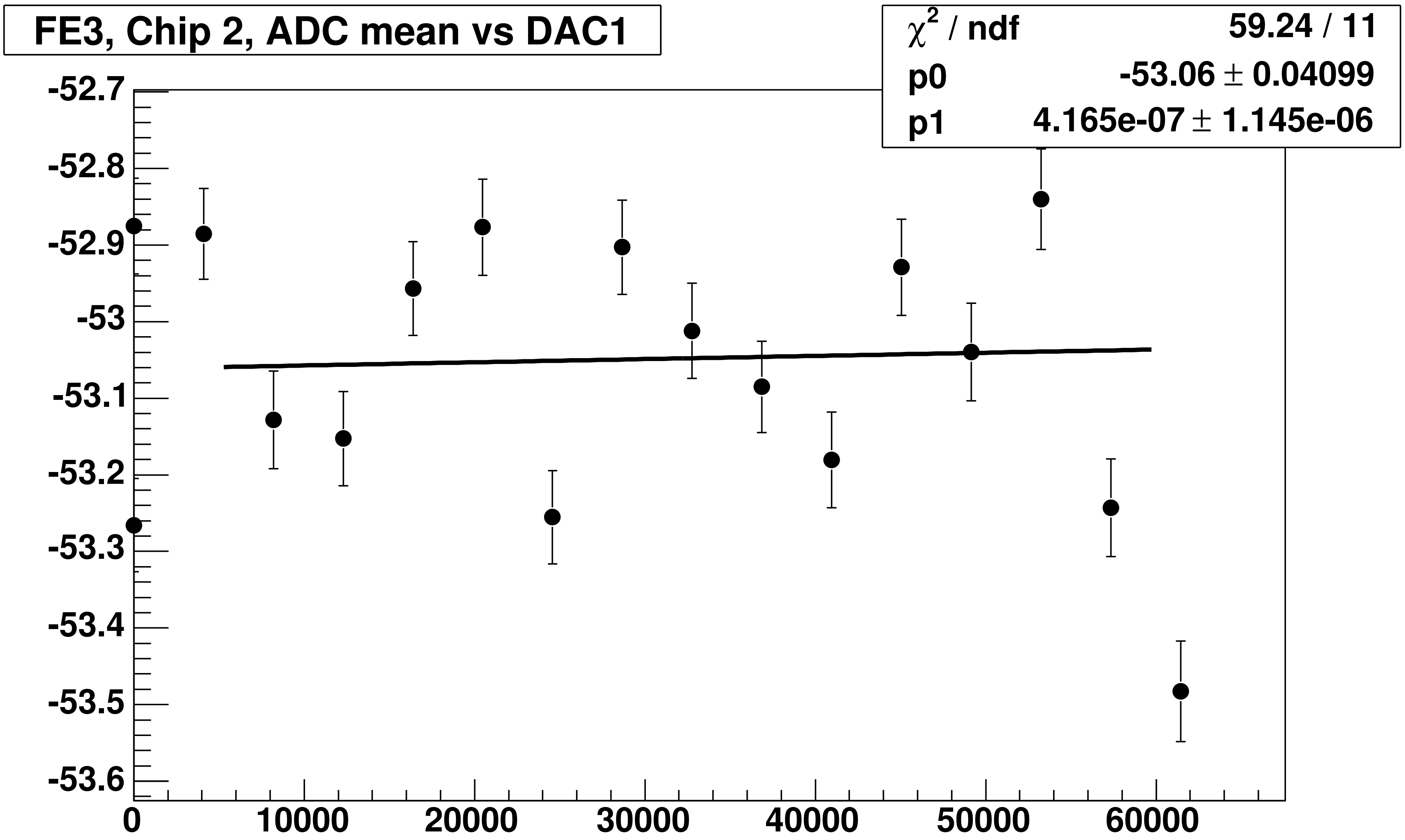


FE3, Chip 2, ADC mean vs DAC0
χ^2 / ndf 3050 / 11
p0 -51.39 ± 0.04316
p1 0.4513 ± 1.389e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

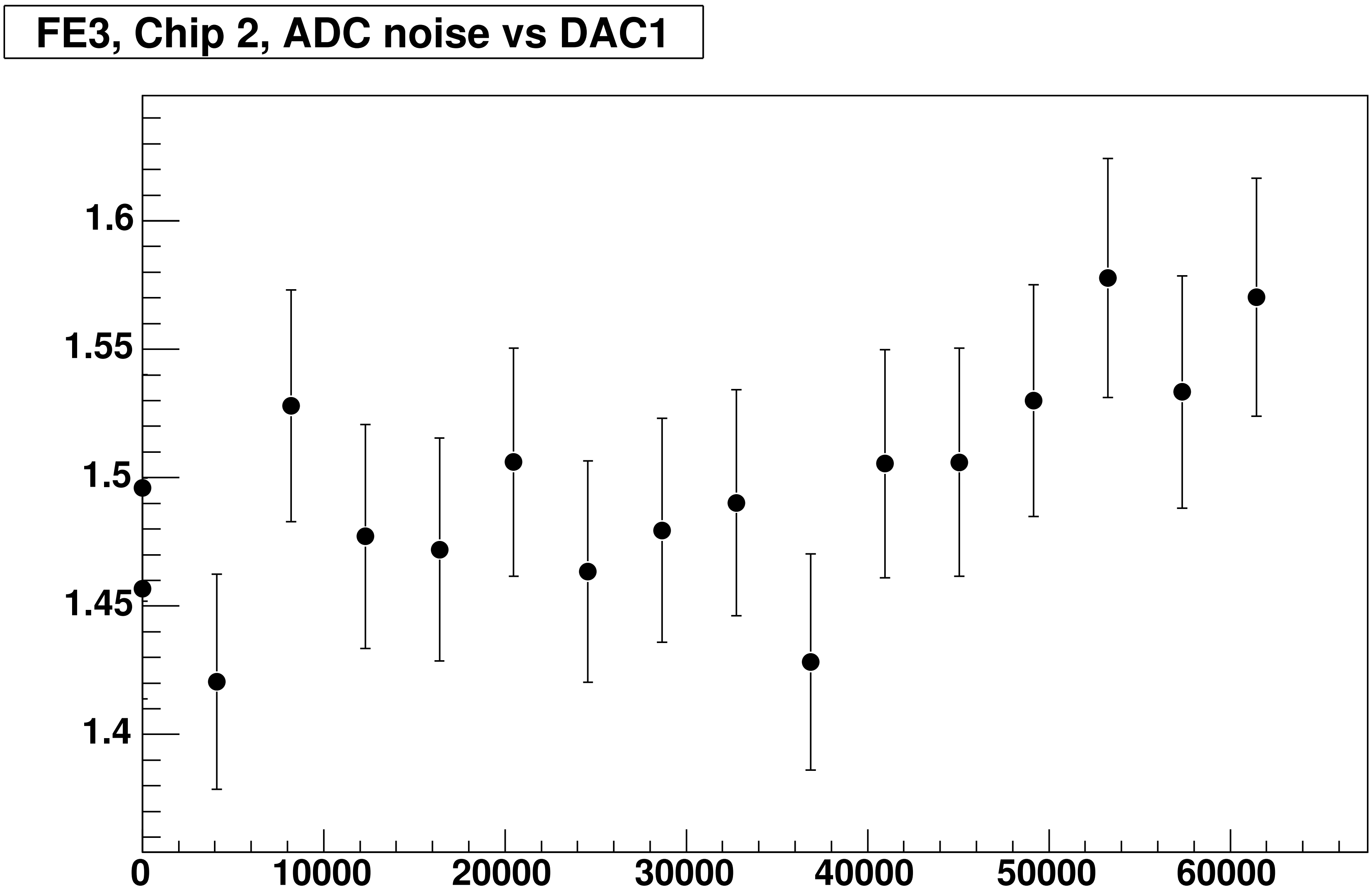

FE3, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

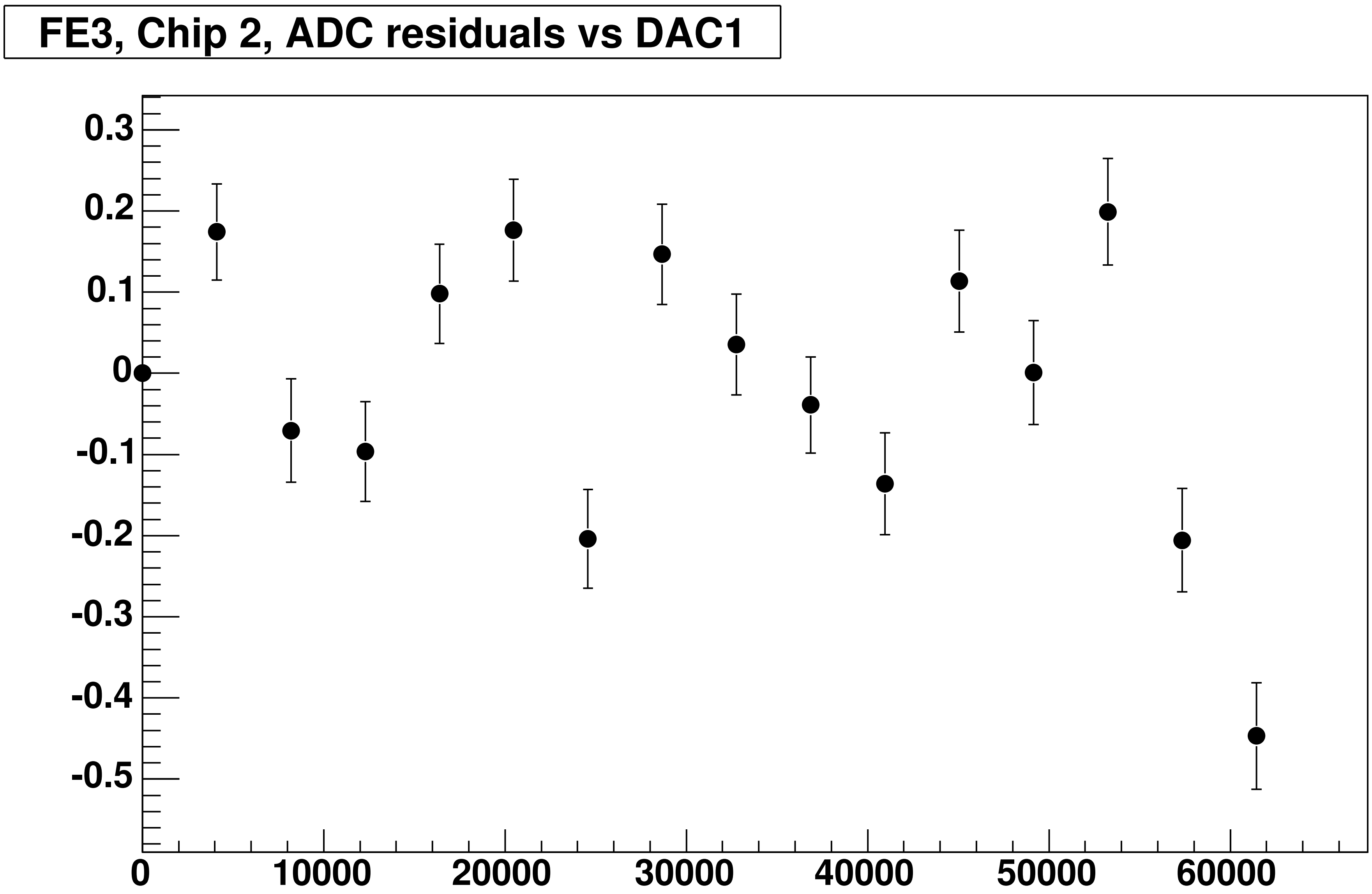


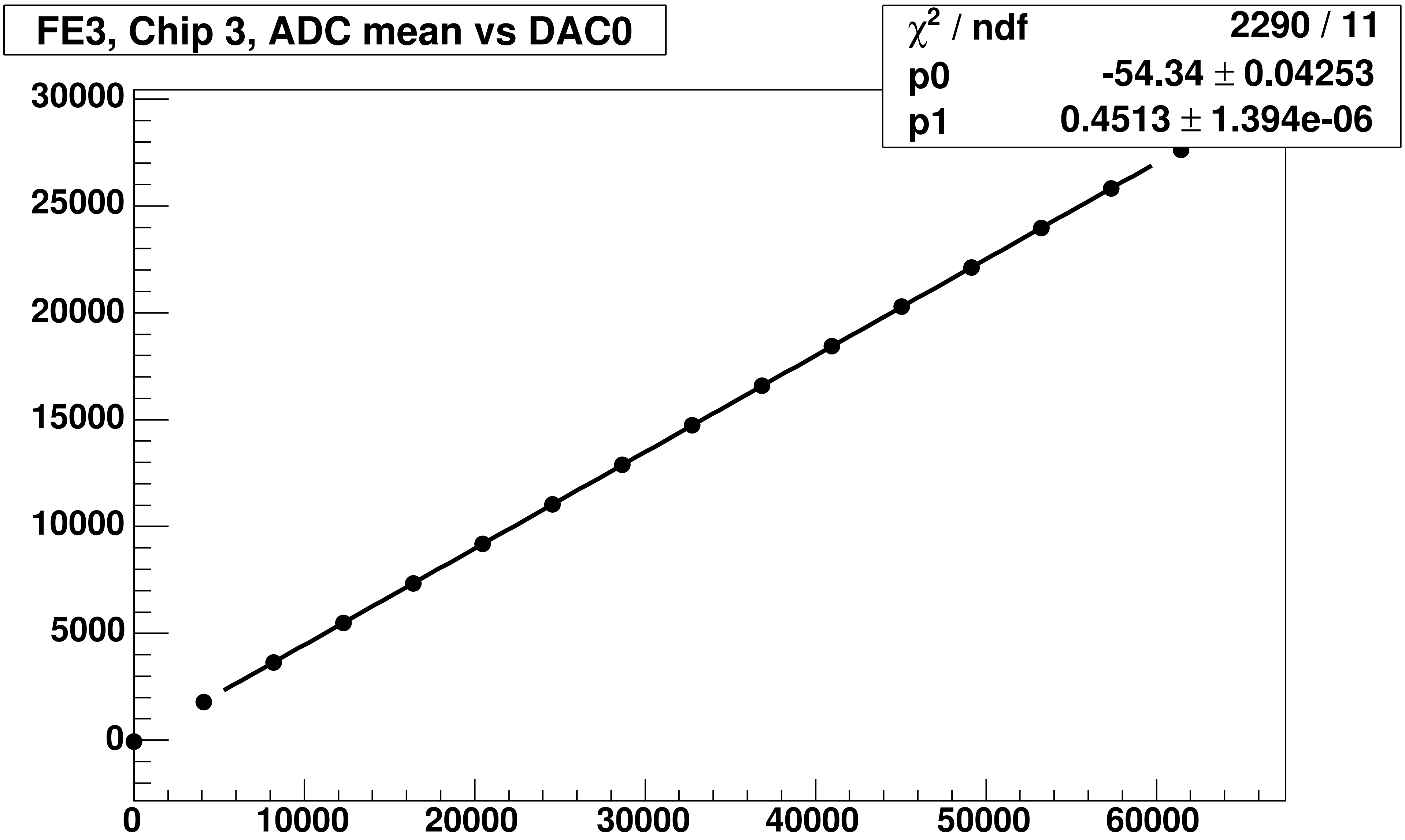
FE3, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

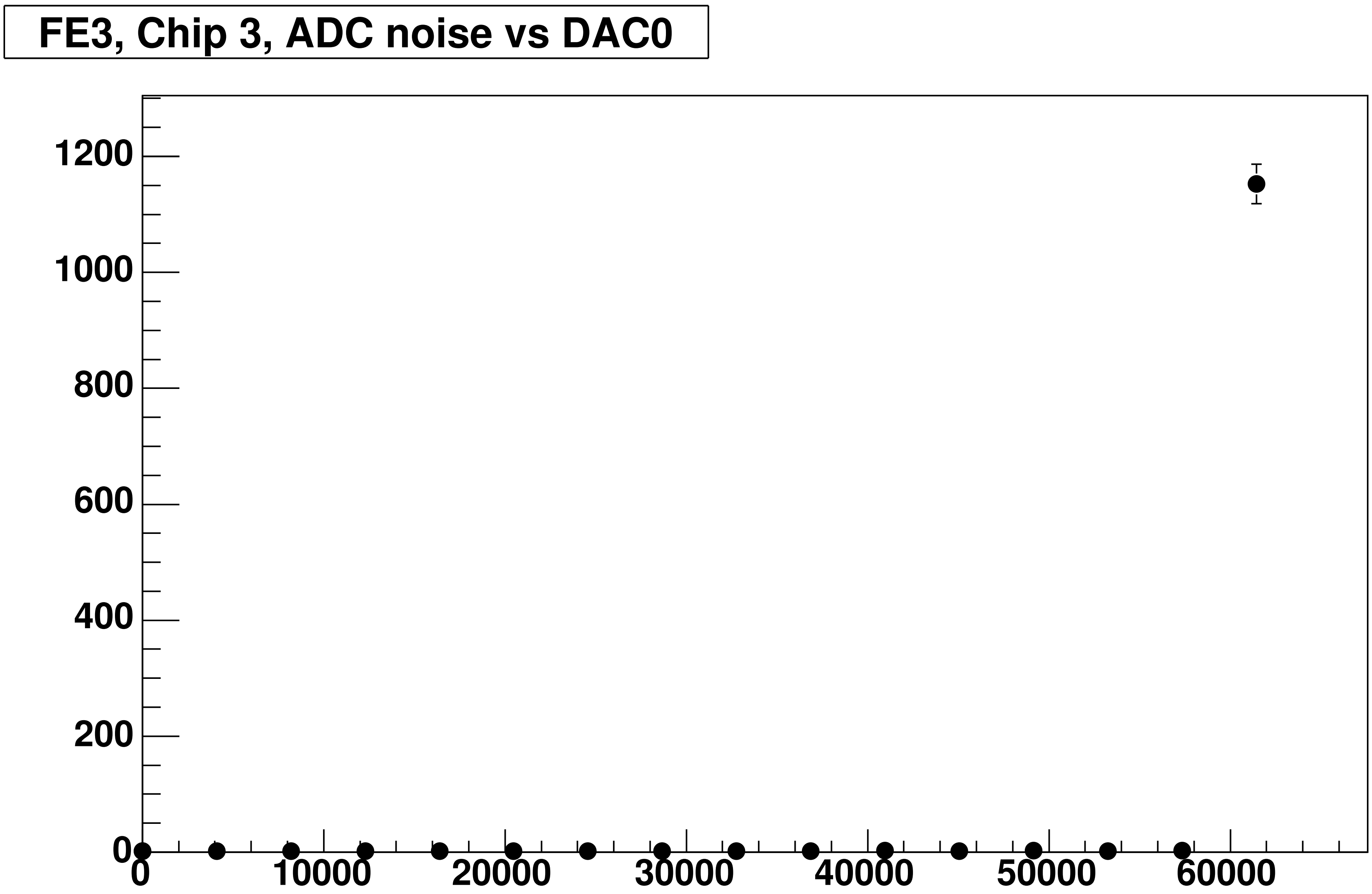


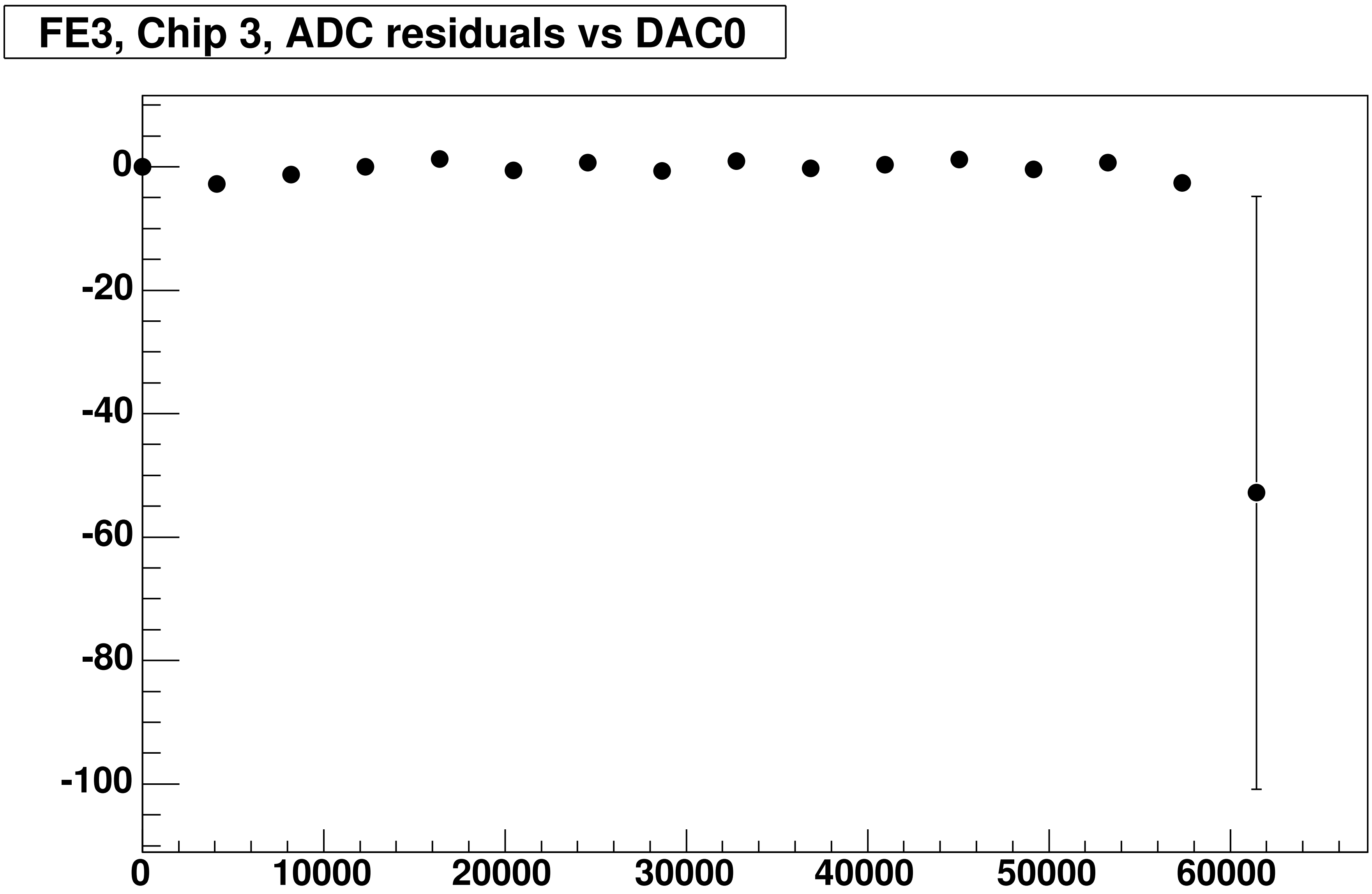
FE3, Chip 2, ADC mean vs DAC1
χ^2 / ndf 59.24 / 11
p0 -53.06 ± 0.04099
p1 4.165e-07 ± 1.145e-06
-52.7
-52.8
-52.9
-53
-53.1
-53.2
-53.3
-53.4
-53.5
-53.6
0
10000
20000
30000
40000
50000
60000

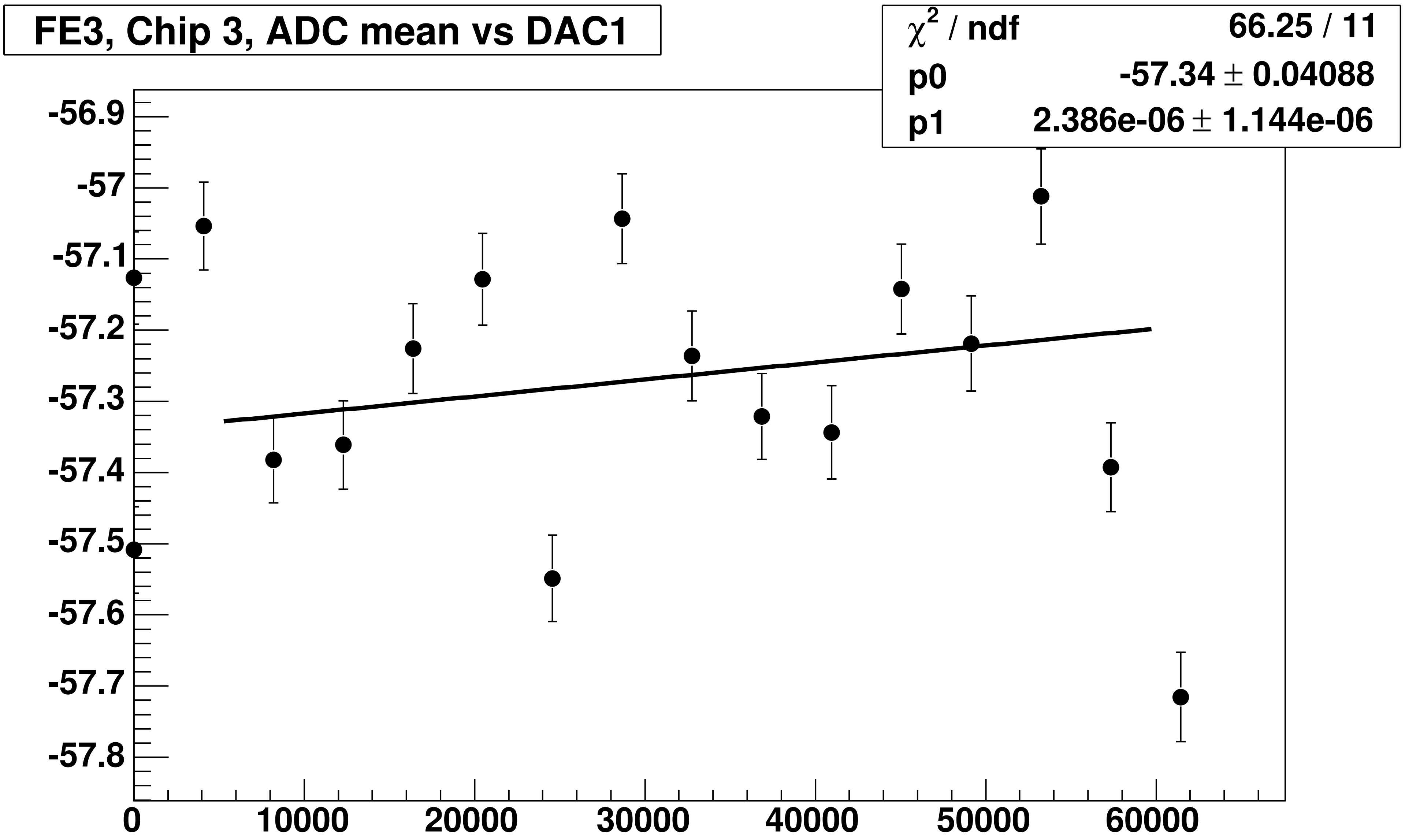

FE3, Chip 2, ADC noise vs DAC1
1.4
1.45
1.5
1.55
1.6
0
10000
20000
30000
40000
50000
60000

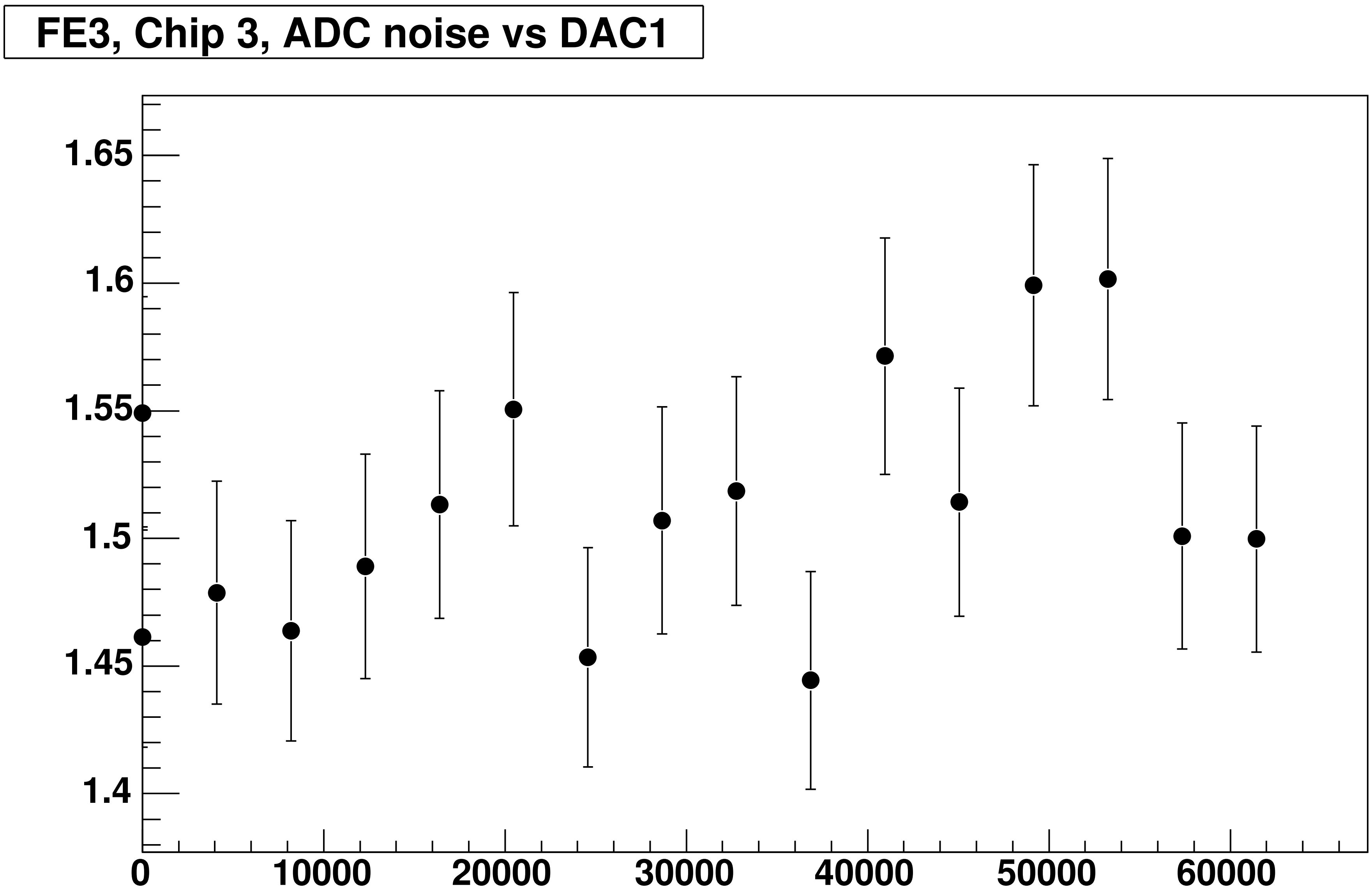

FE3, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

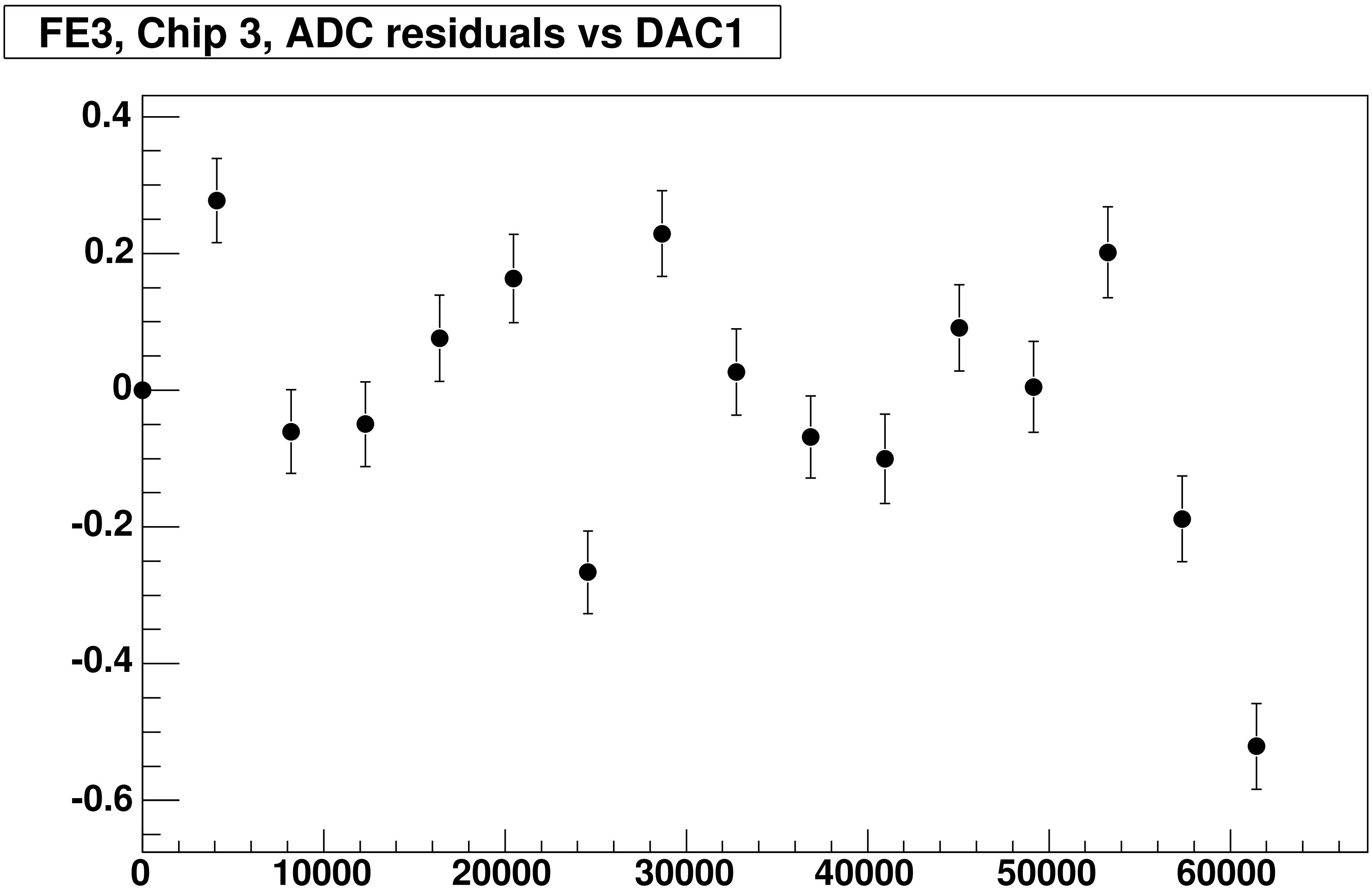

FE3, Chip 3, ADC mean vs DAC0
χ^2 / ndf 2290 / 11
p0 -54.34 ± 0.04253
p1 0.4513 ± 1.394e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

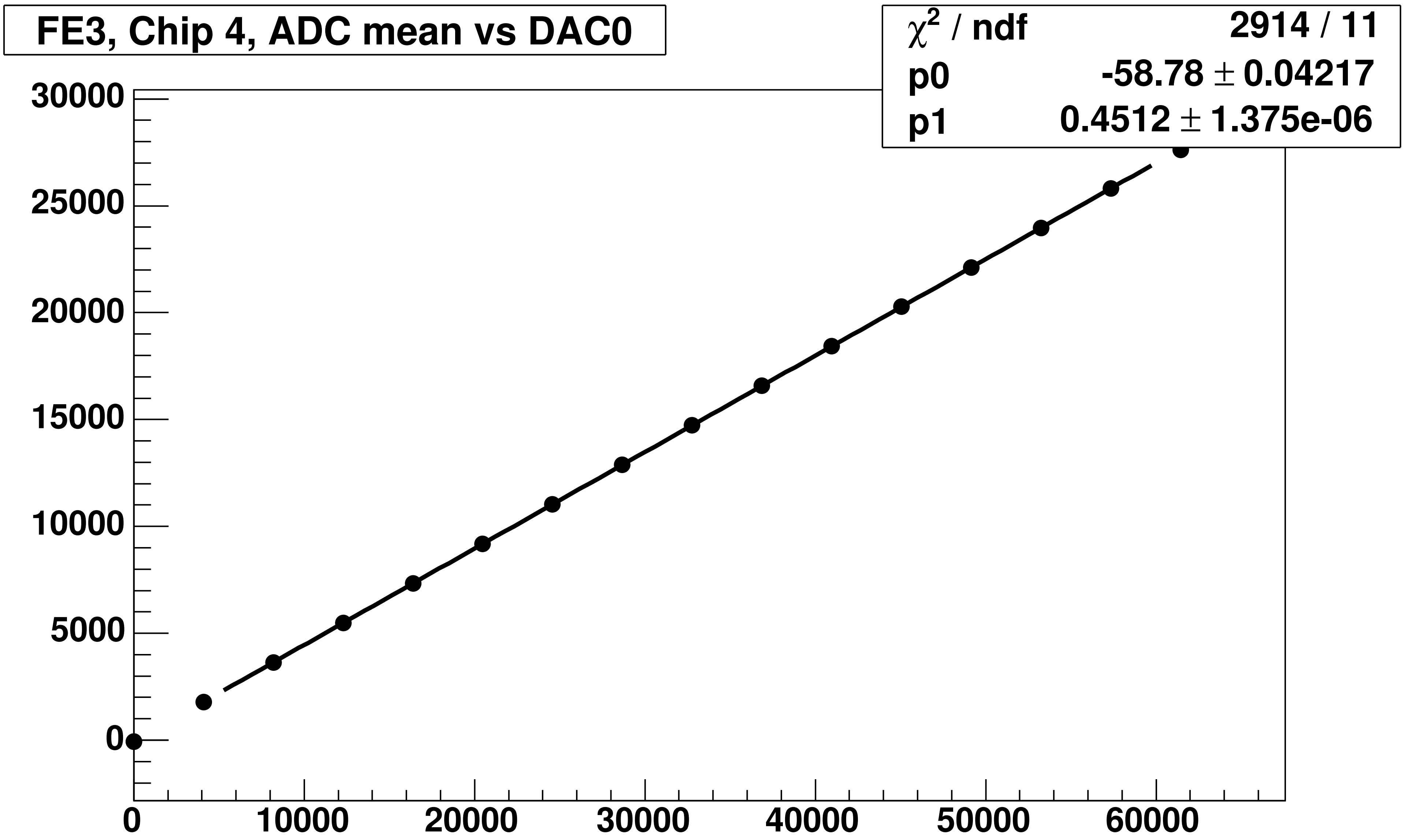

FE3, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

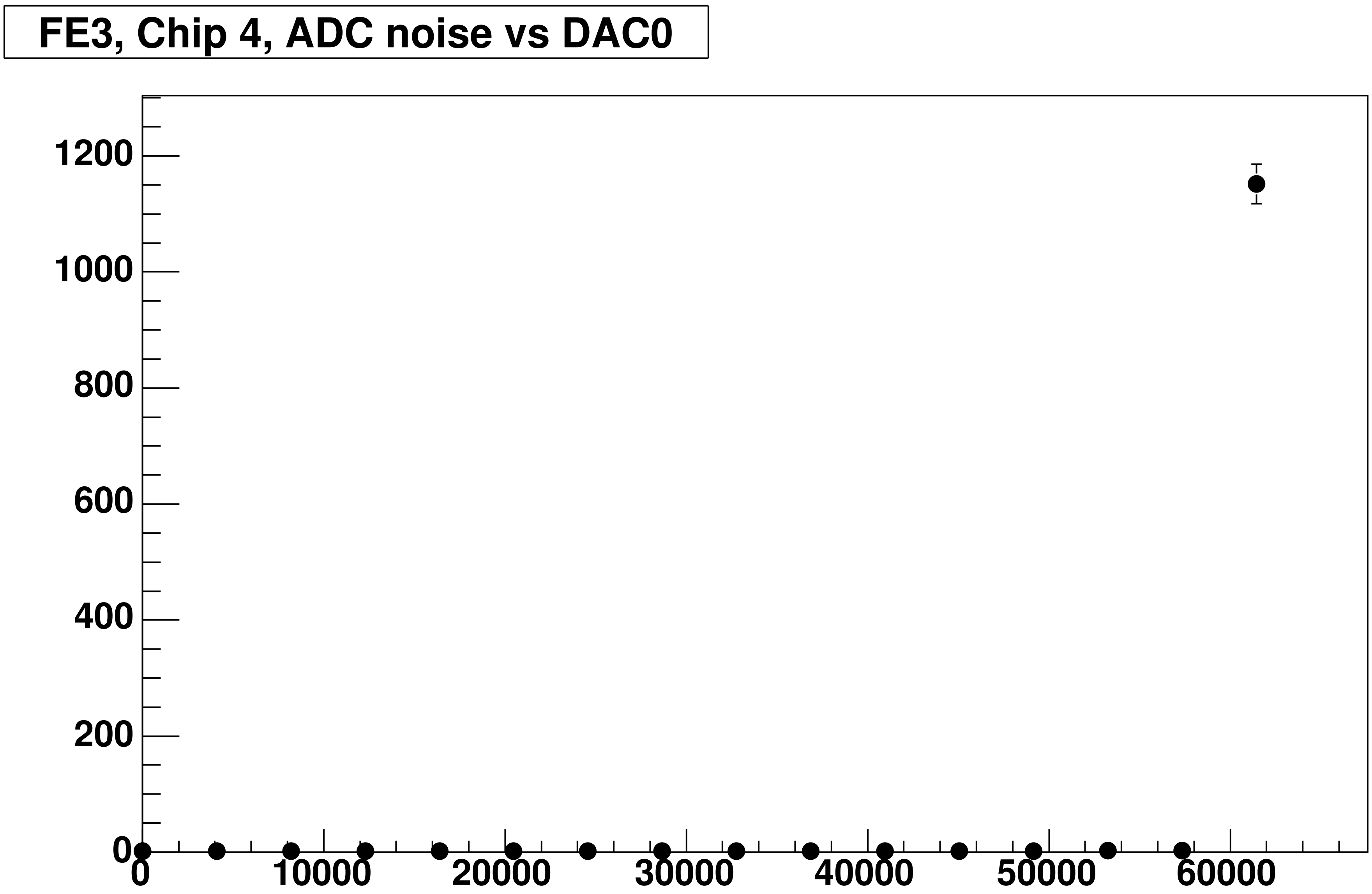

FE3, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

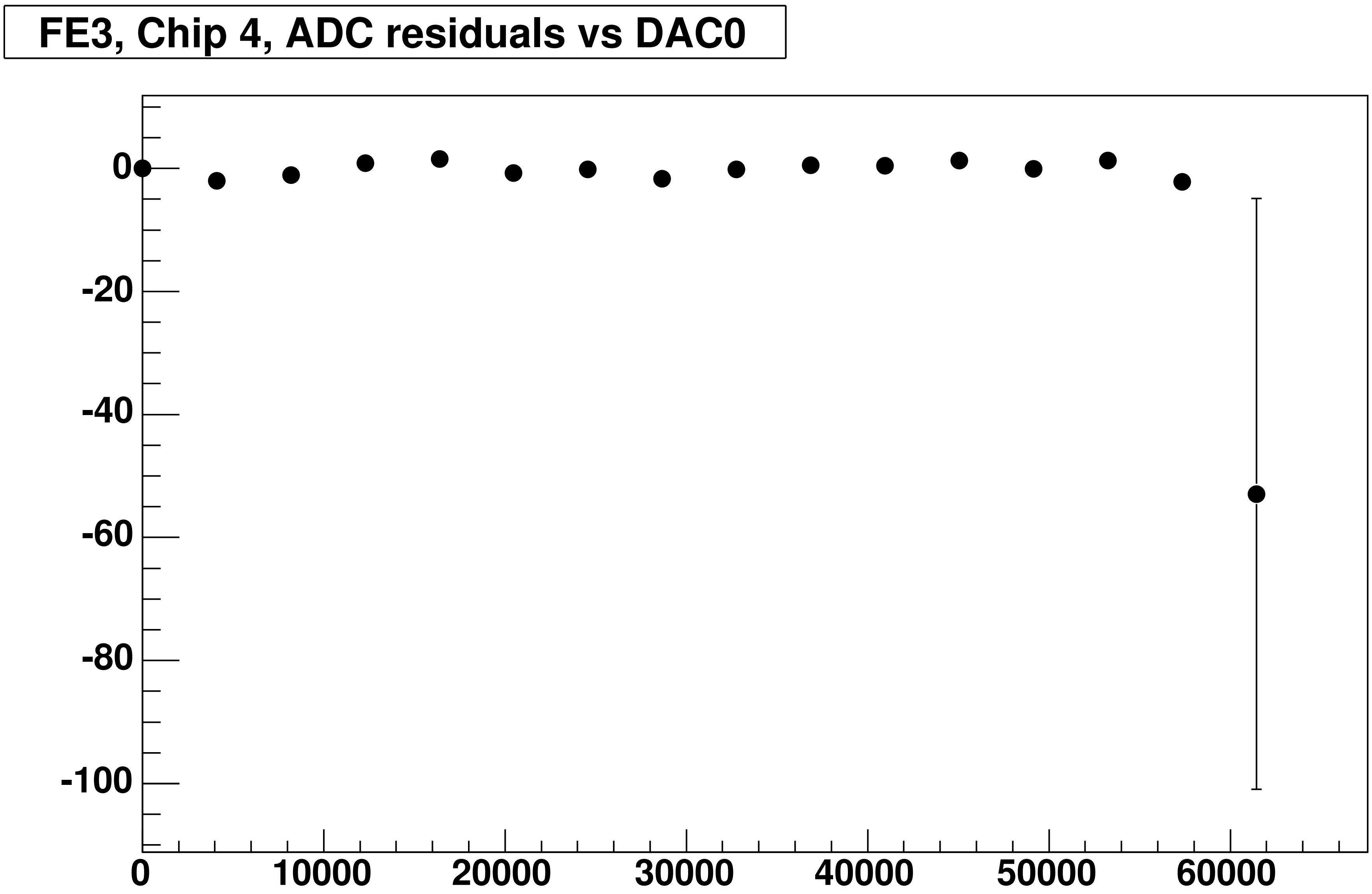

FE3, Chip 3, ADC mean vs DAC1
χ^2 / ndf 66.25 / 11
p0 -57.34 ± 0.04088
p1 2.386e-06 ± 1.144e-06
-56.9
-57
-57.1
-57.2
-57.3
-57.4
-57.5
-57.6
-57.7
-57.8
0
10000
20000
30000
40000
50000
60000

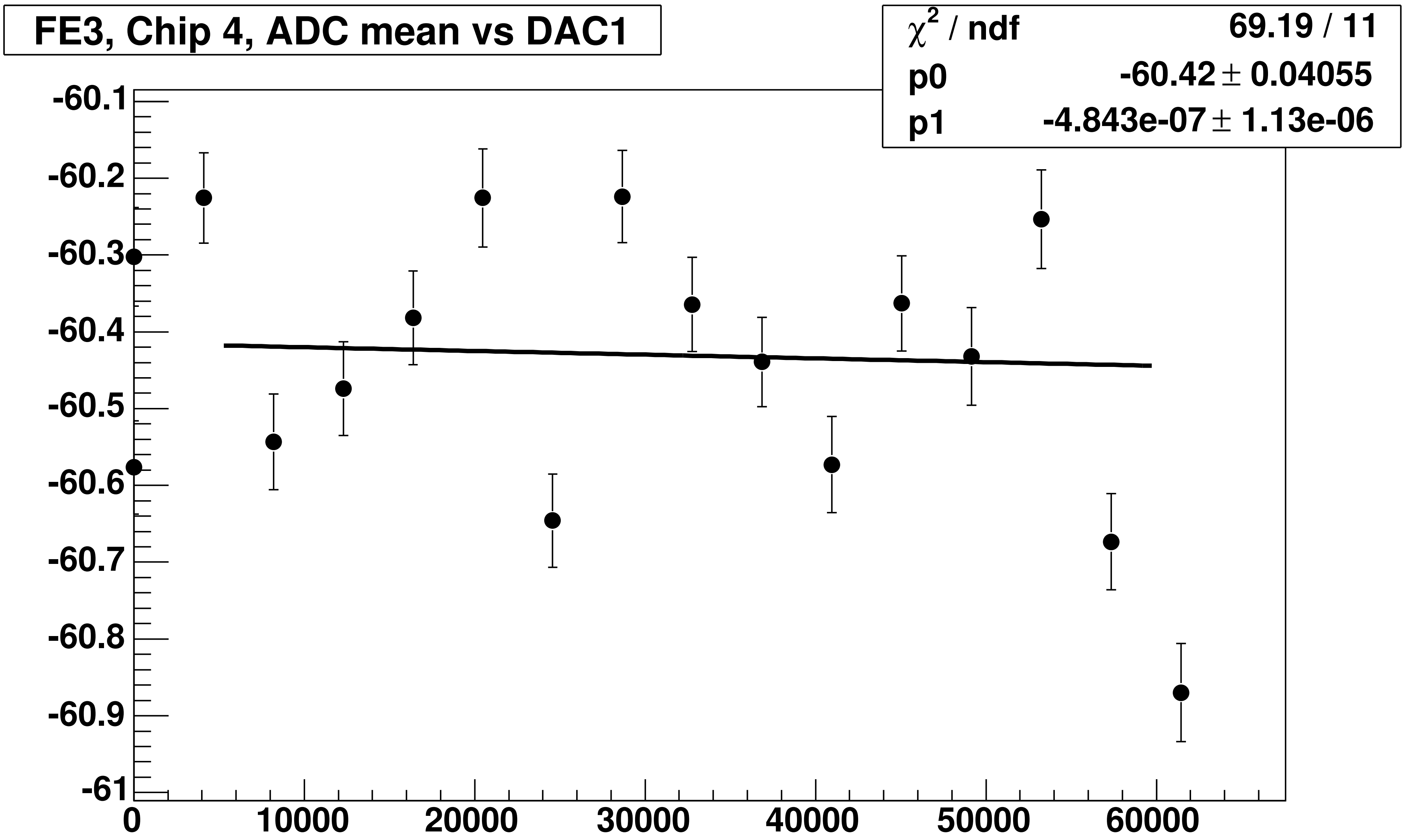

FE3, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


FE3, Chip 3, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

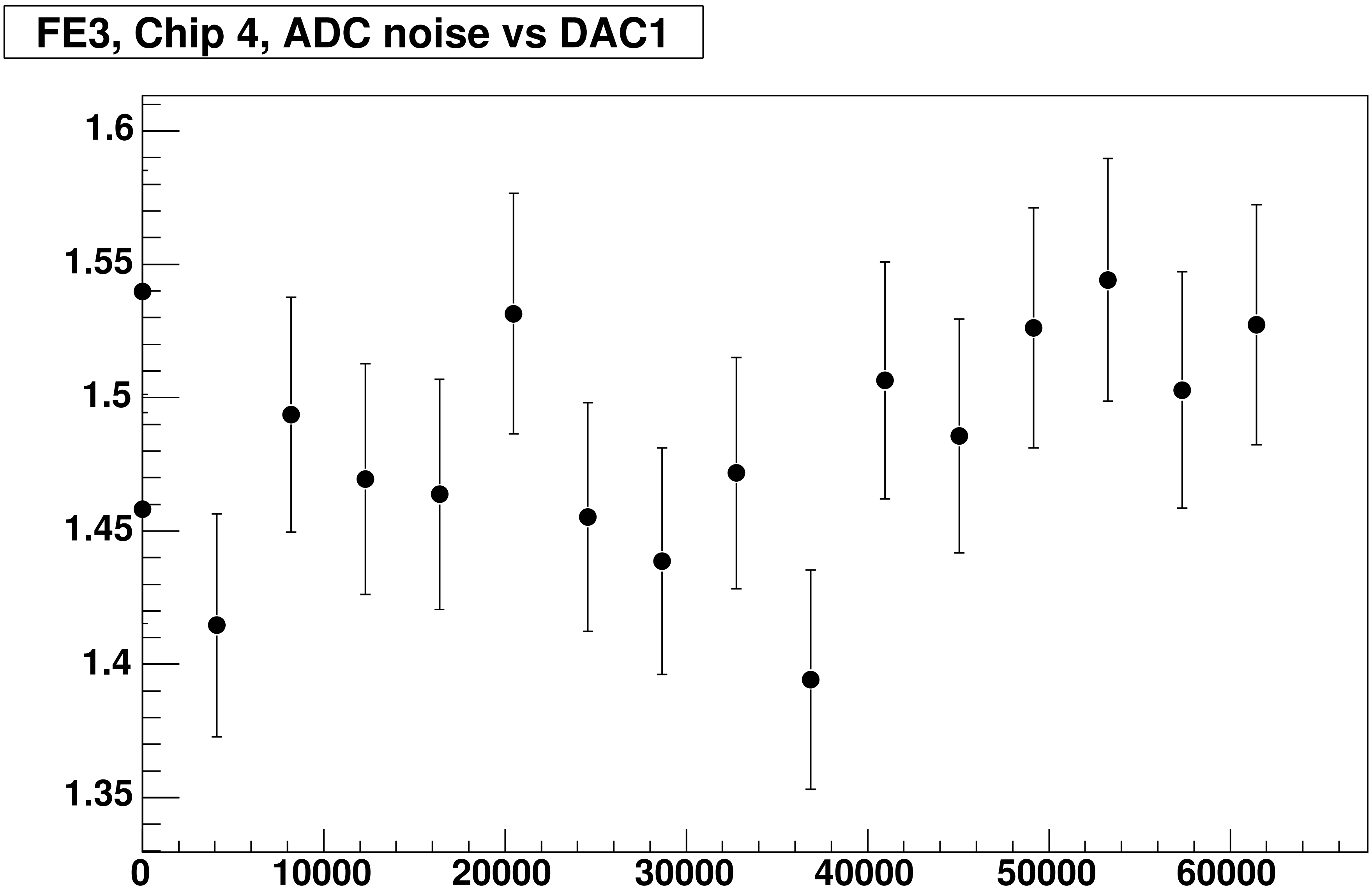

FE3, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2914 / 11
p0 -58.78 ± 0.04217
p1 0.4512 ± 1.375e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

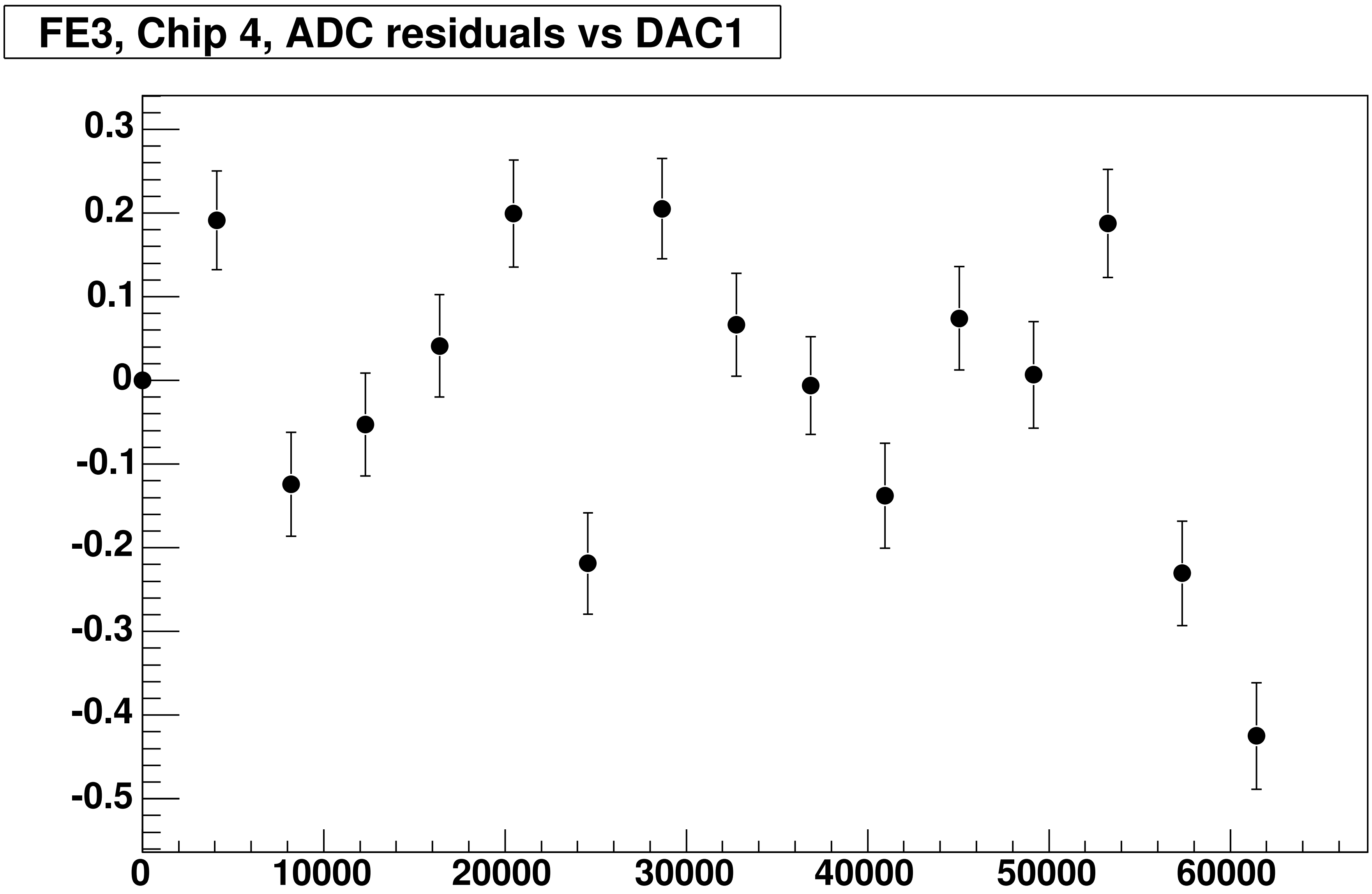

FE3, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

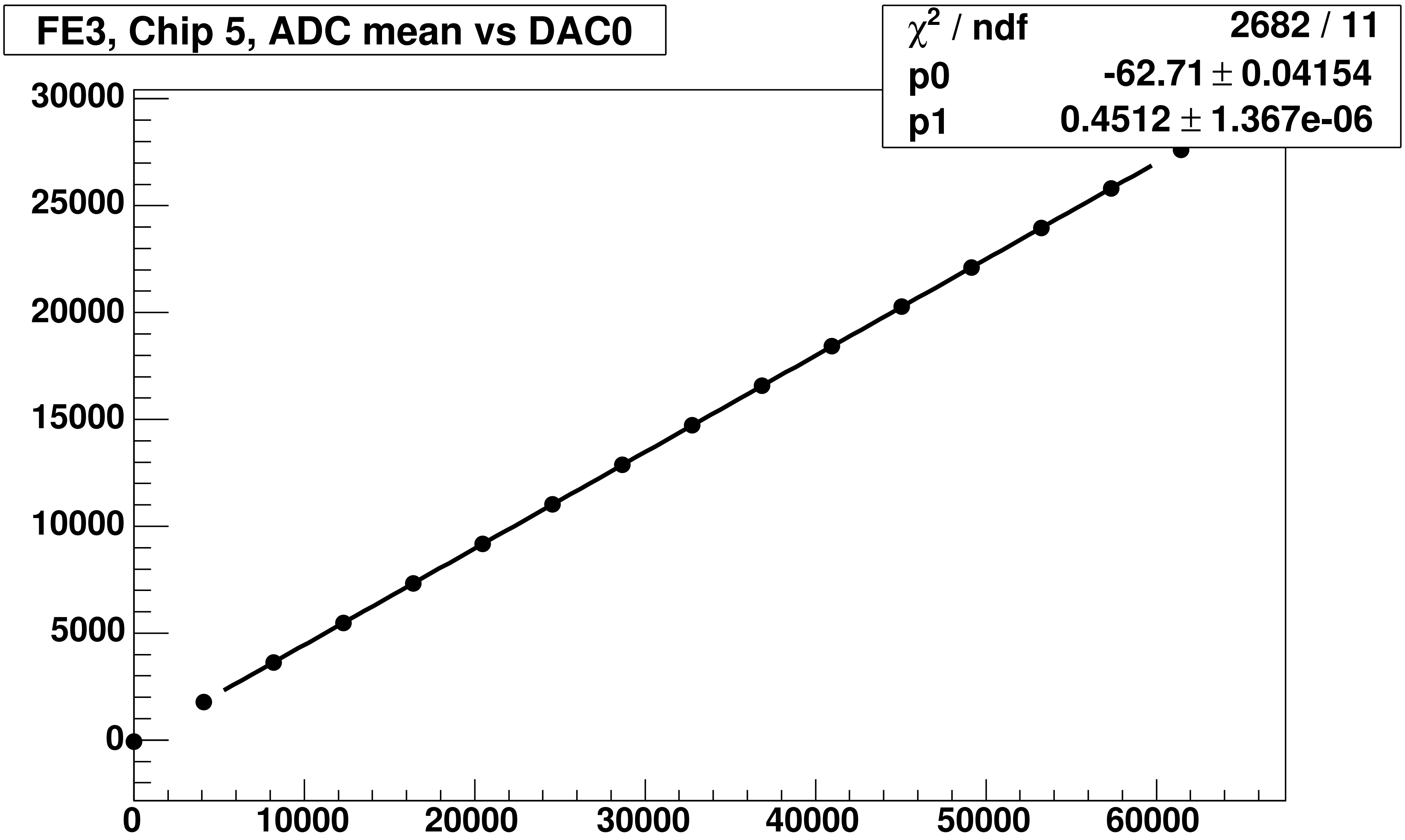

FE3, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

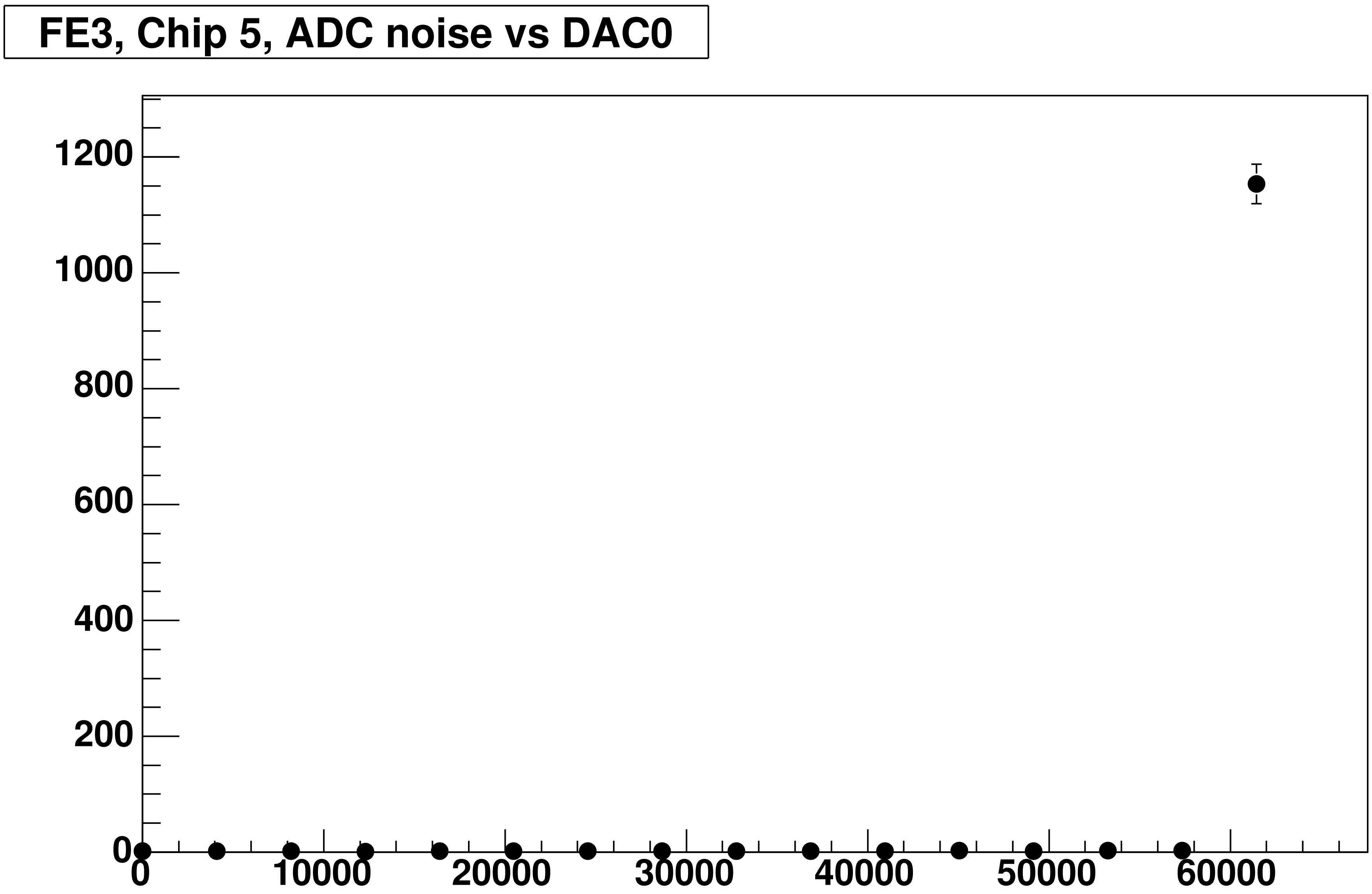


FE3, Chip 4, ADC mean vs DAC1
χ^2 / ndf 69.19 / 11
p0 -60.42 ± 0.04055
p1 -4.843e-07 ± 1.13e-06
-60.1
-60.2
-60.3
-60.4
-60.5
-60.6
-60.7
-60.8
-60.9
-61
0
10000
20000
30000
40000
50000
60000

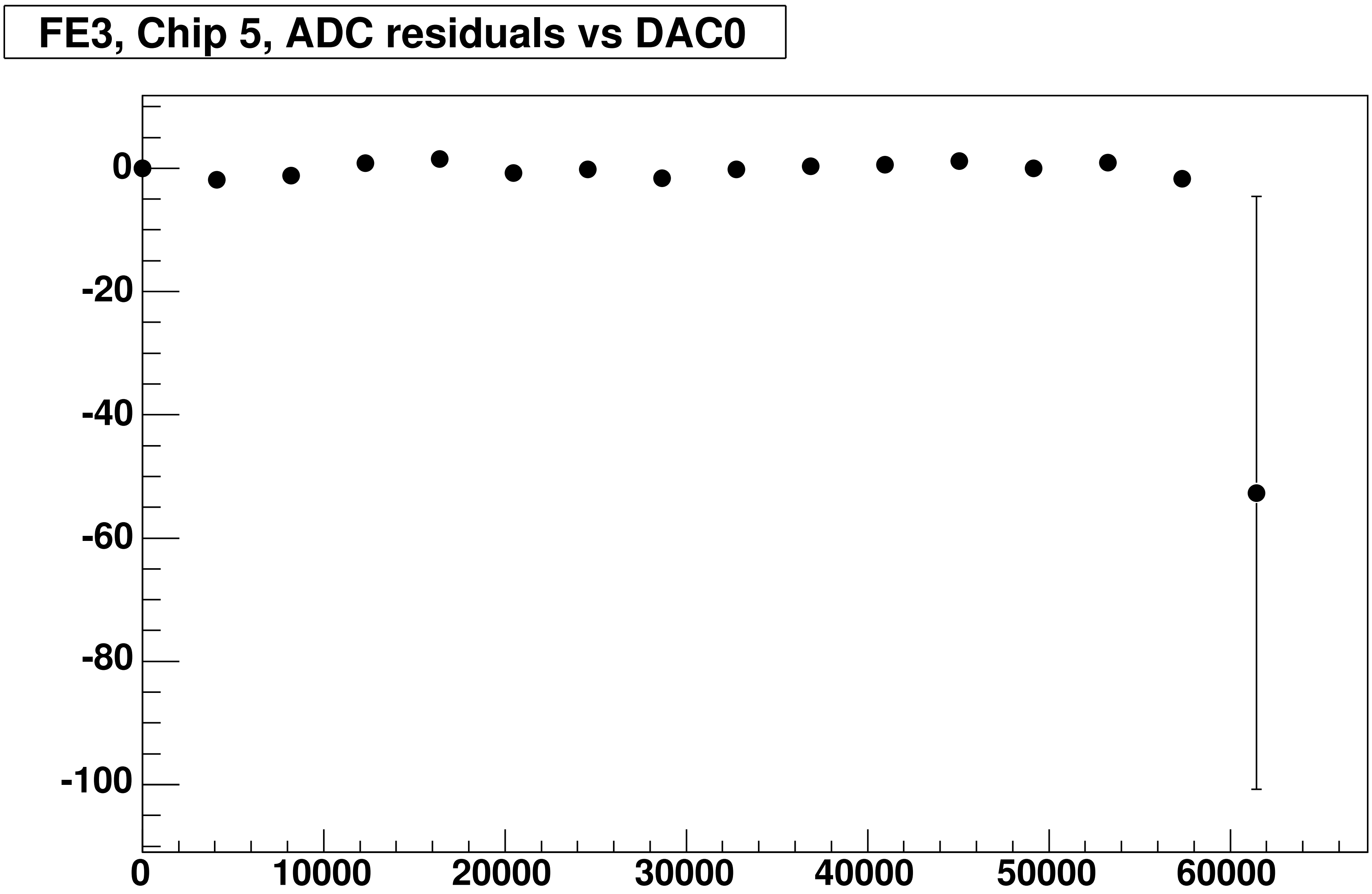

FE3, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

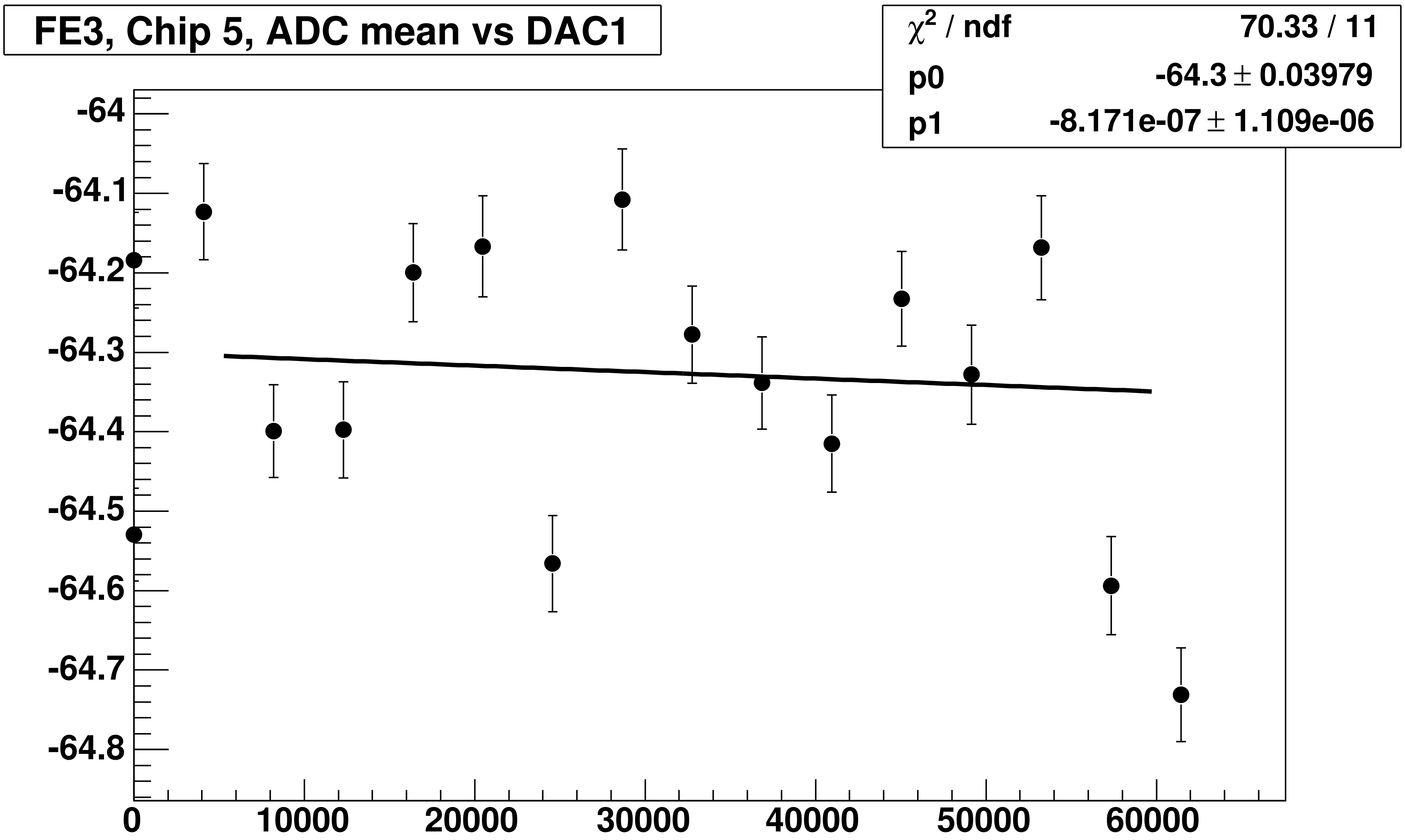

FE3, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000


FE3, Chip 5, ADC mean vs DAC0
χ^2 / ndf 2682 / 11
p0 -62.71 ± 0.04154
p1 0.4512 ± 1.367e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

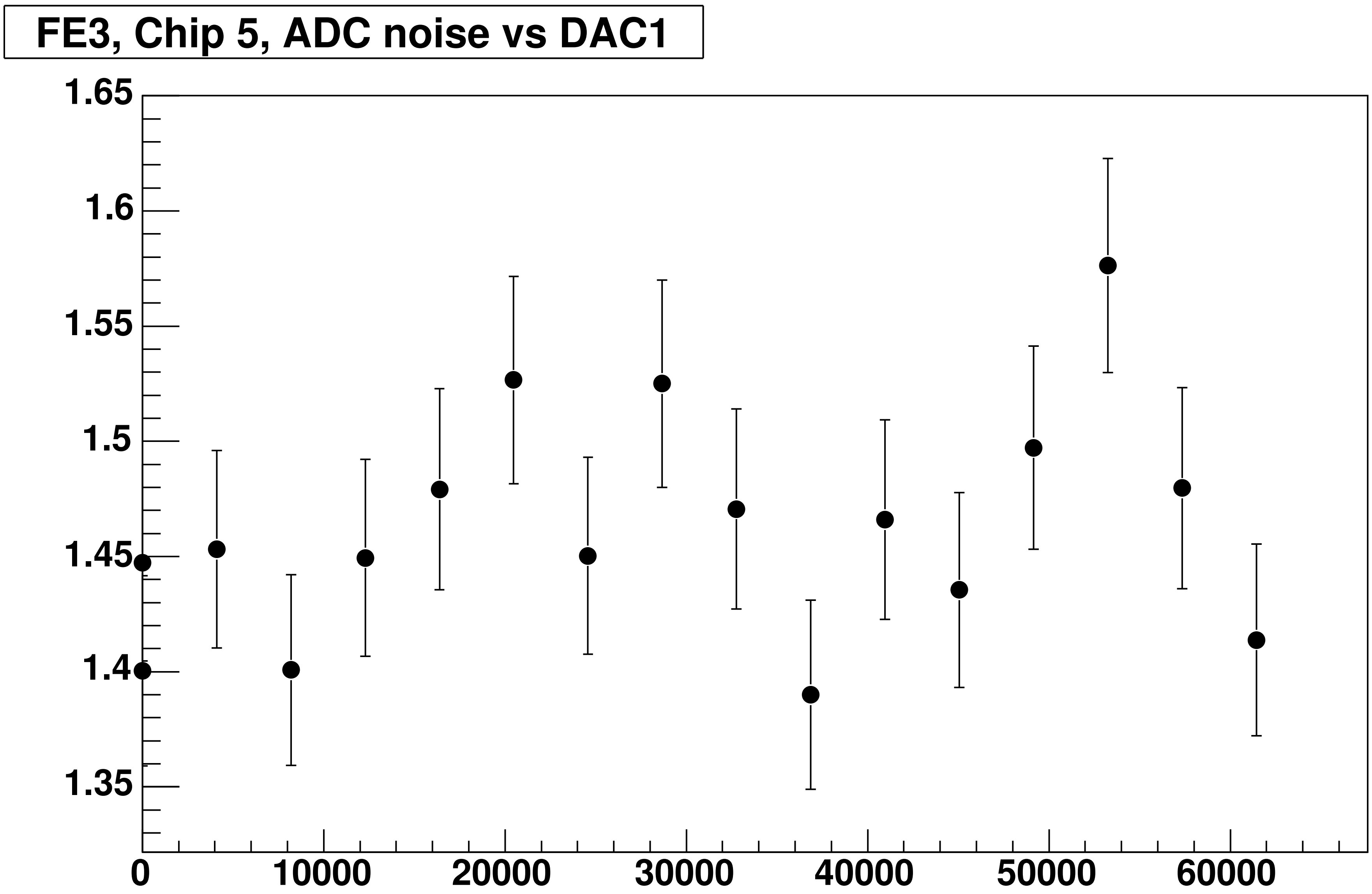


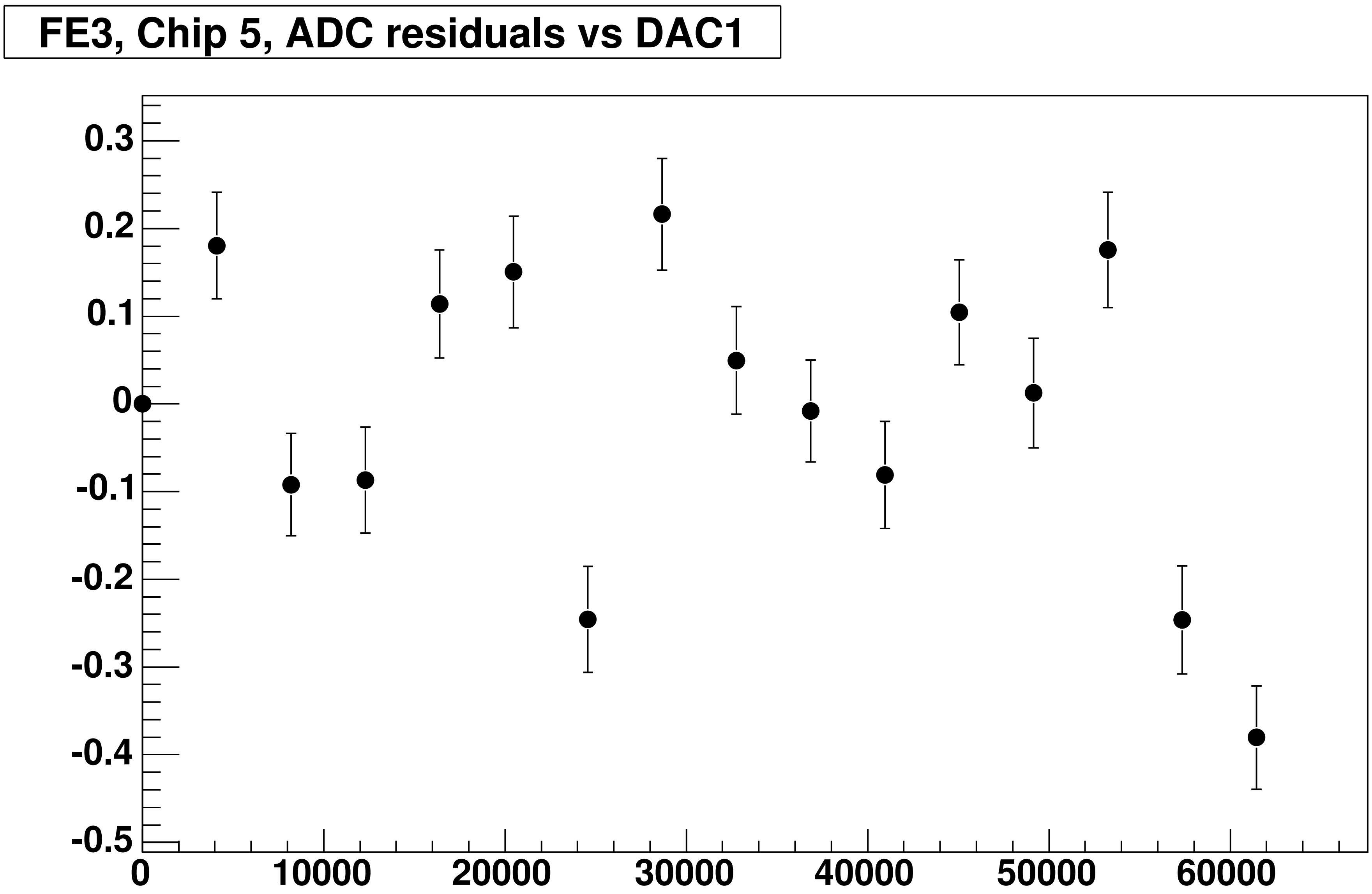
FE3, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

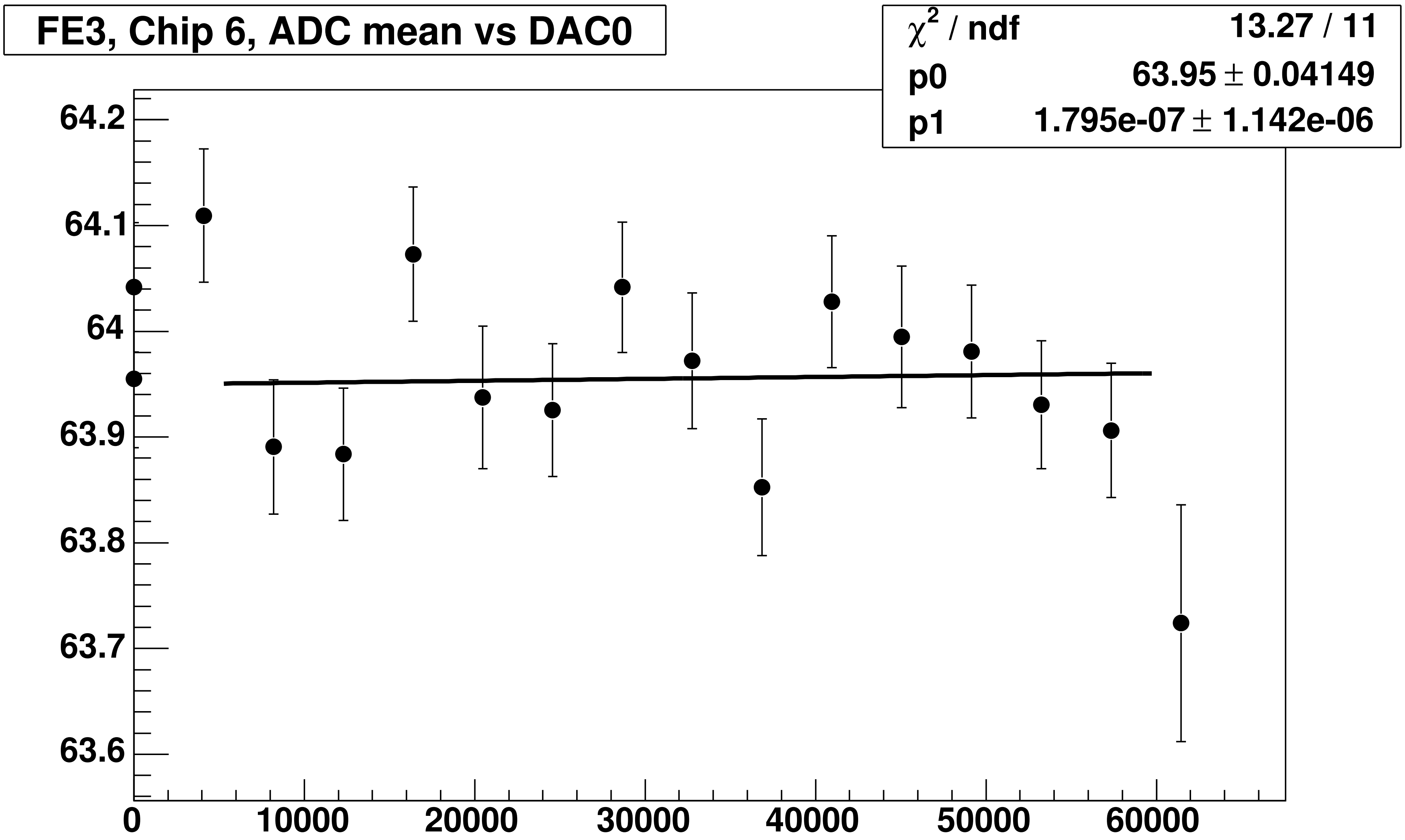

FE3, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

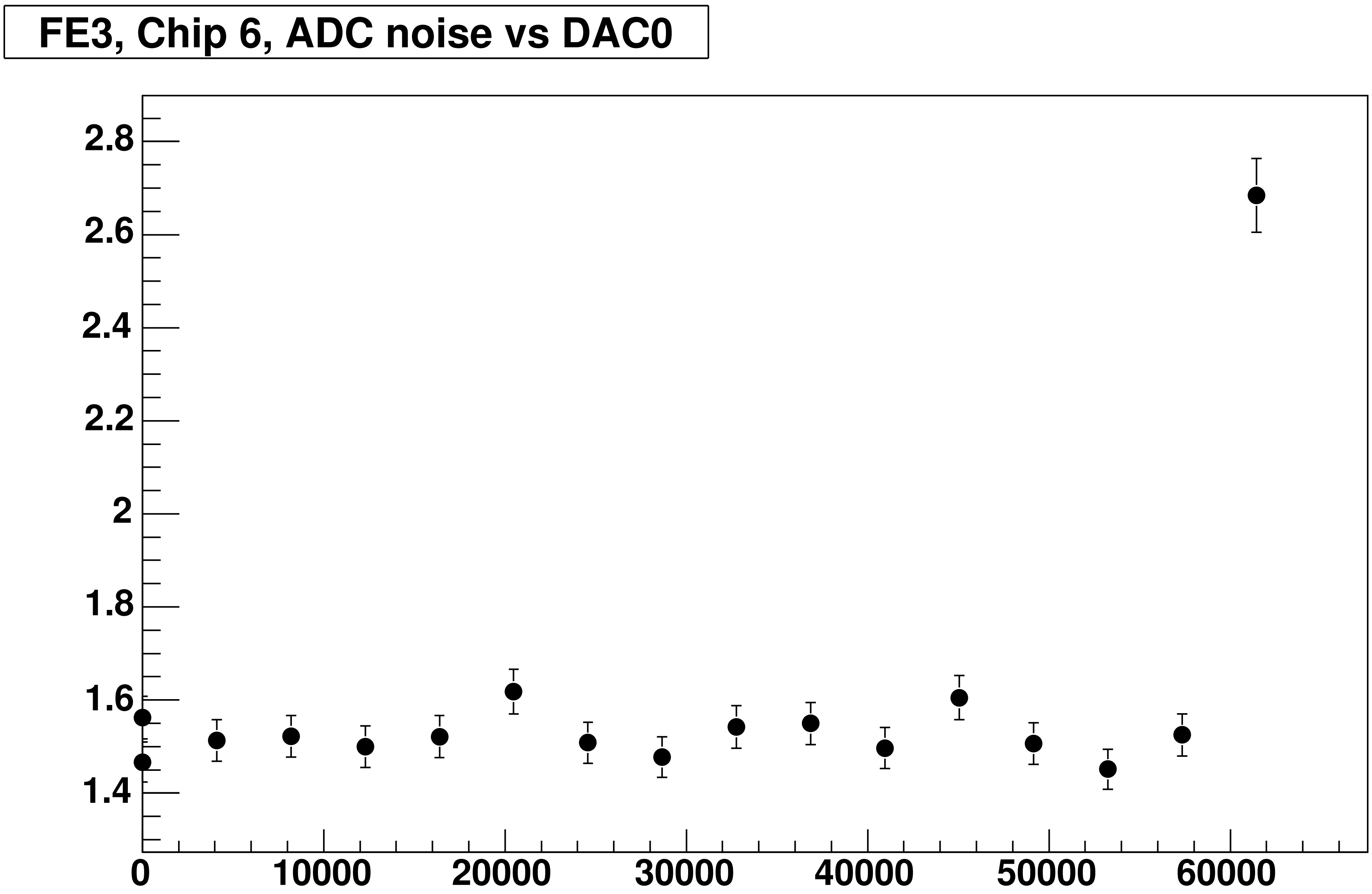


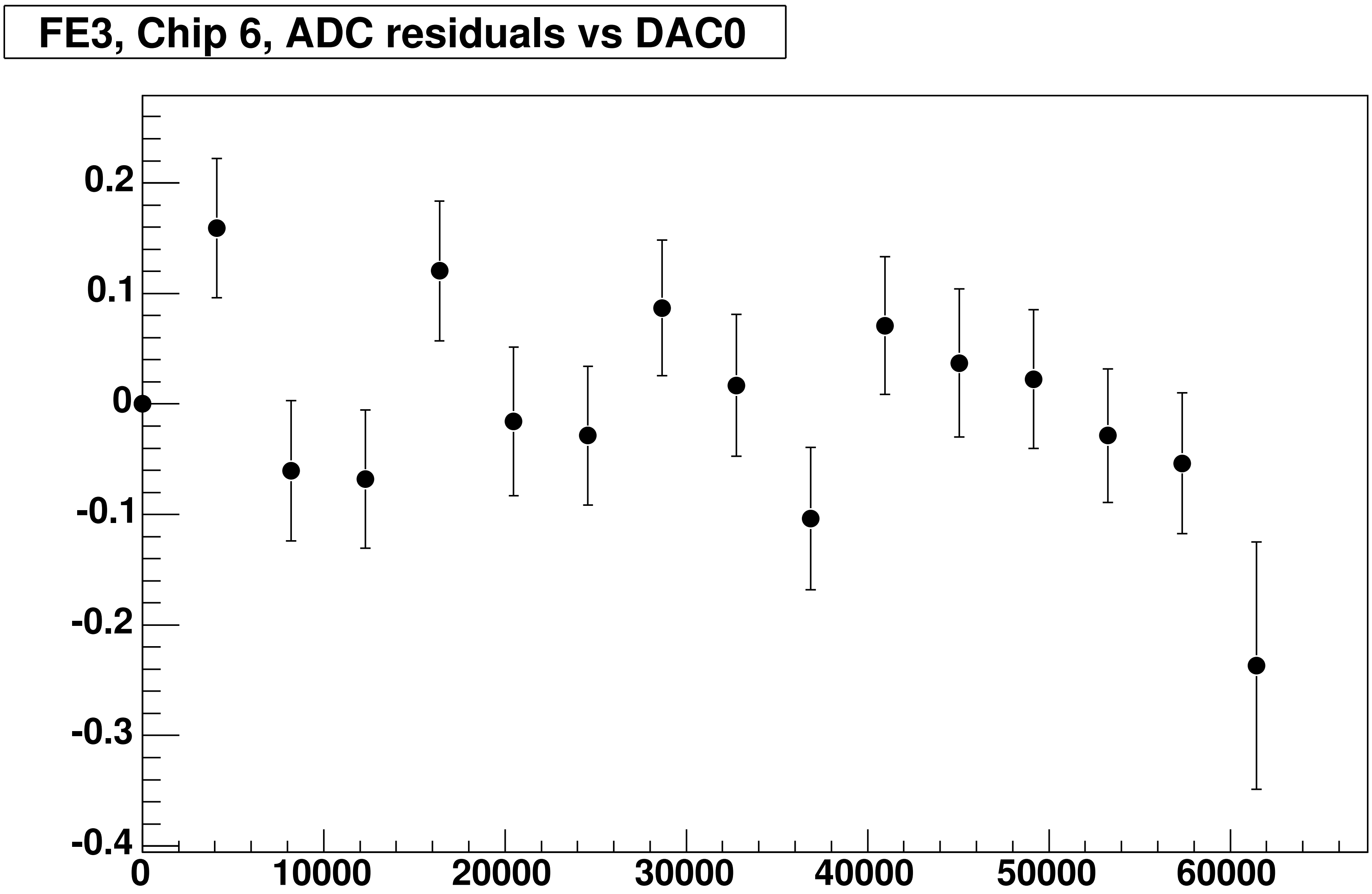
FE3, Chip 5, ADC mean vs DAC1
χ^2 / ndf 70.33 / 11
p0 -64.3 ± 0.03979
p1 -8.171e-07 ± 1.109e-06
-64
-64.1
-64.2
-64.3
-64.4
-64.5
-64.6
-64.7
-64.8
0
10000
20000
30000
40000
50000
60000

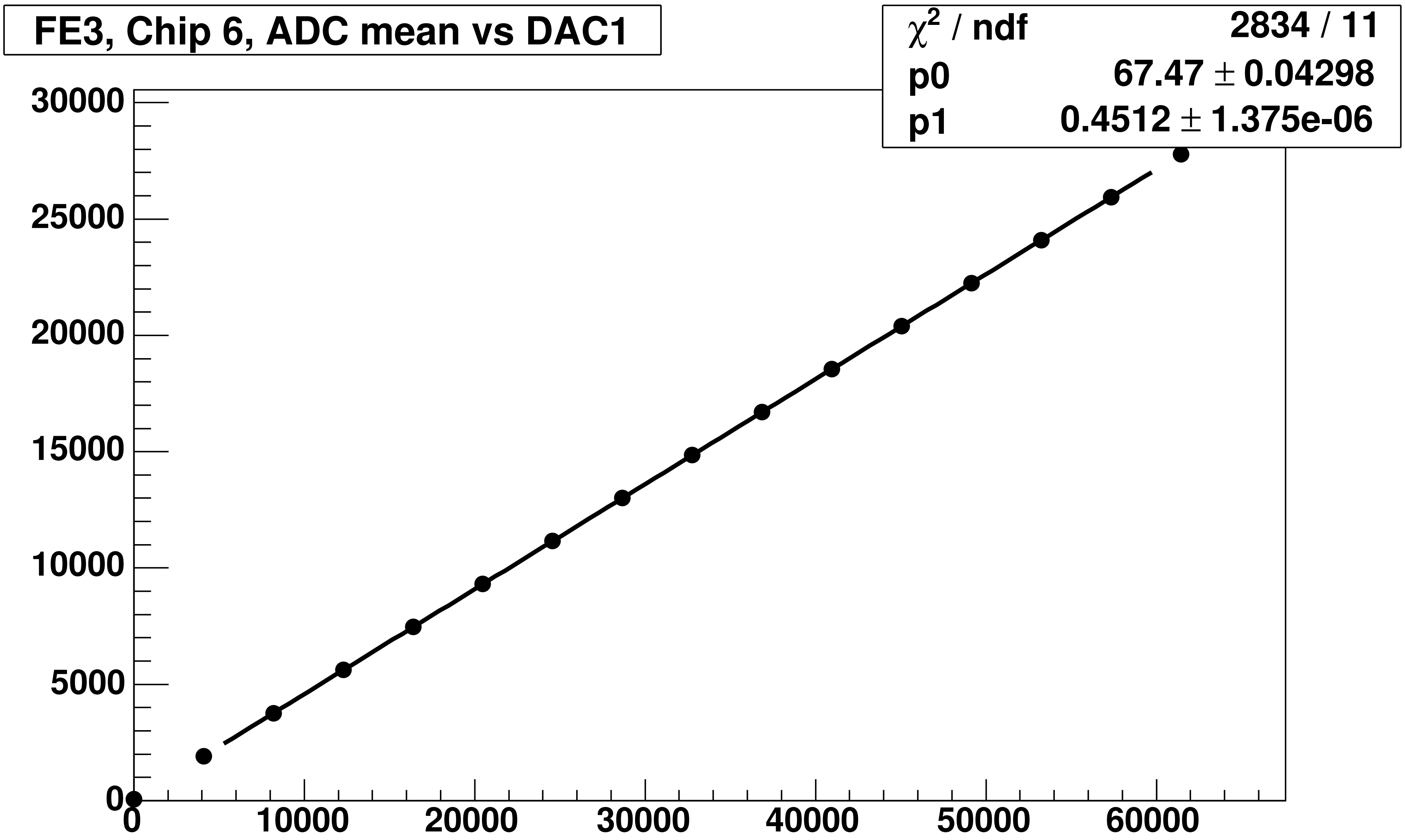

FE3, Chip 5, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

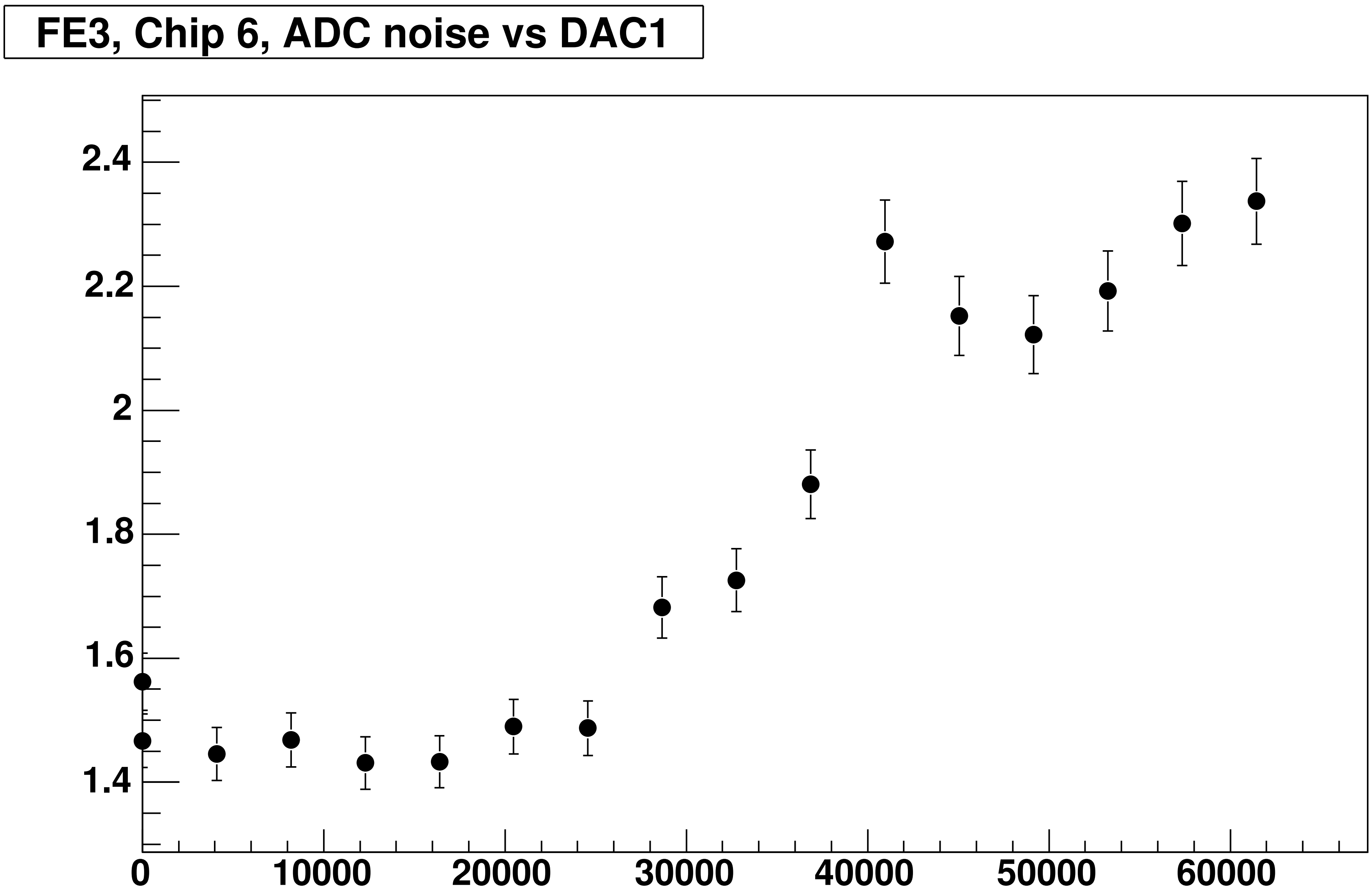

FE3, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

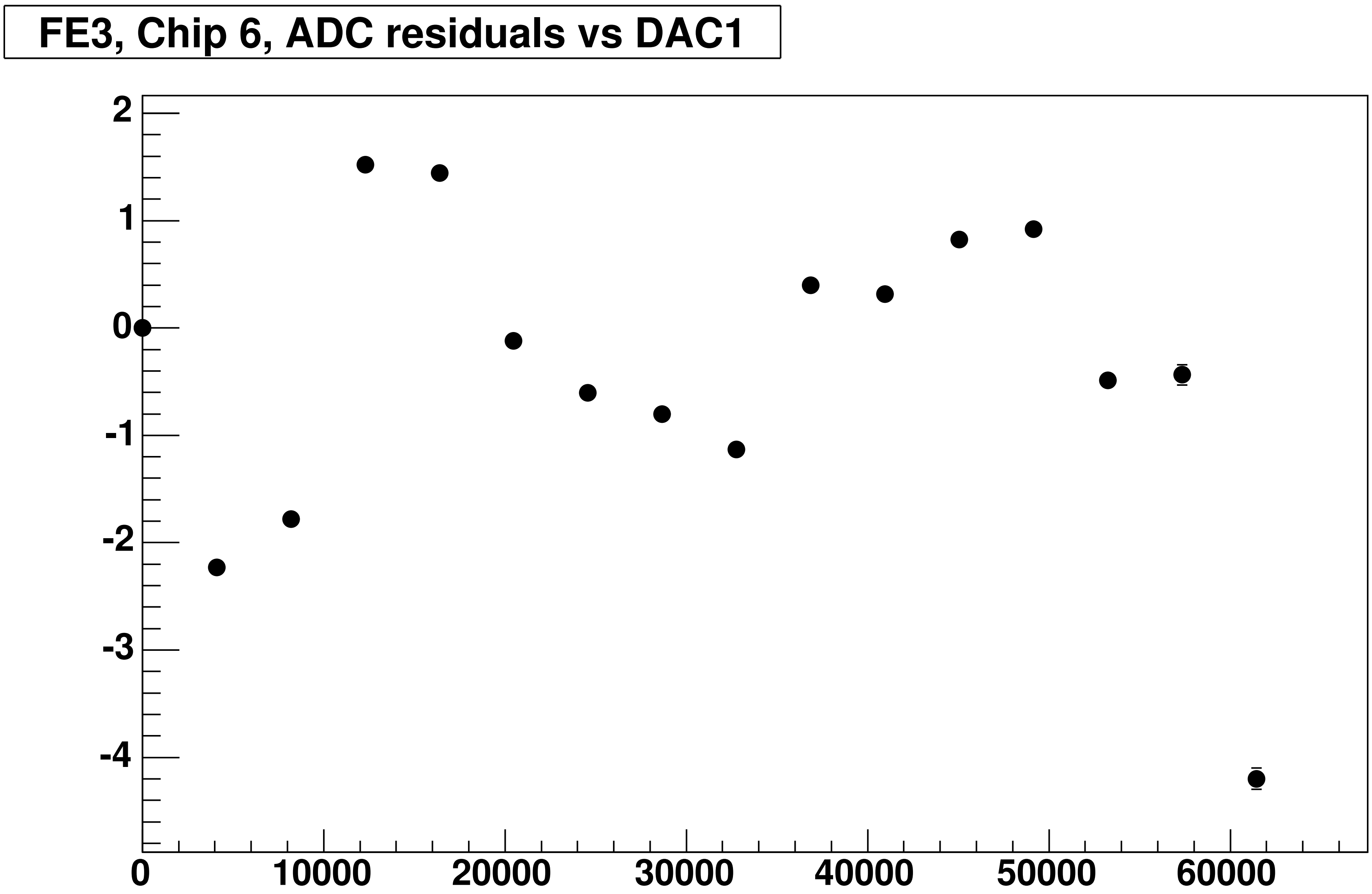

FE3, Chip 6, ADC mean vs DAC0
χ² / ndf 13.27 / 11
p0 63.95 ± 0.04149
p1 1.795e-07 ± 1.142e-06
64.2
64.1
64
63.9
63.8
63.7
63.6
0
10000
20000
30000
40000
50000
60000

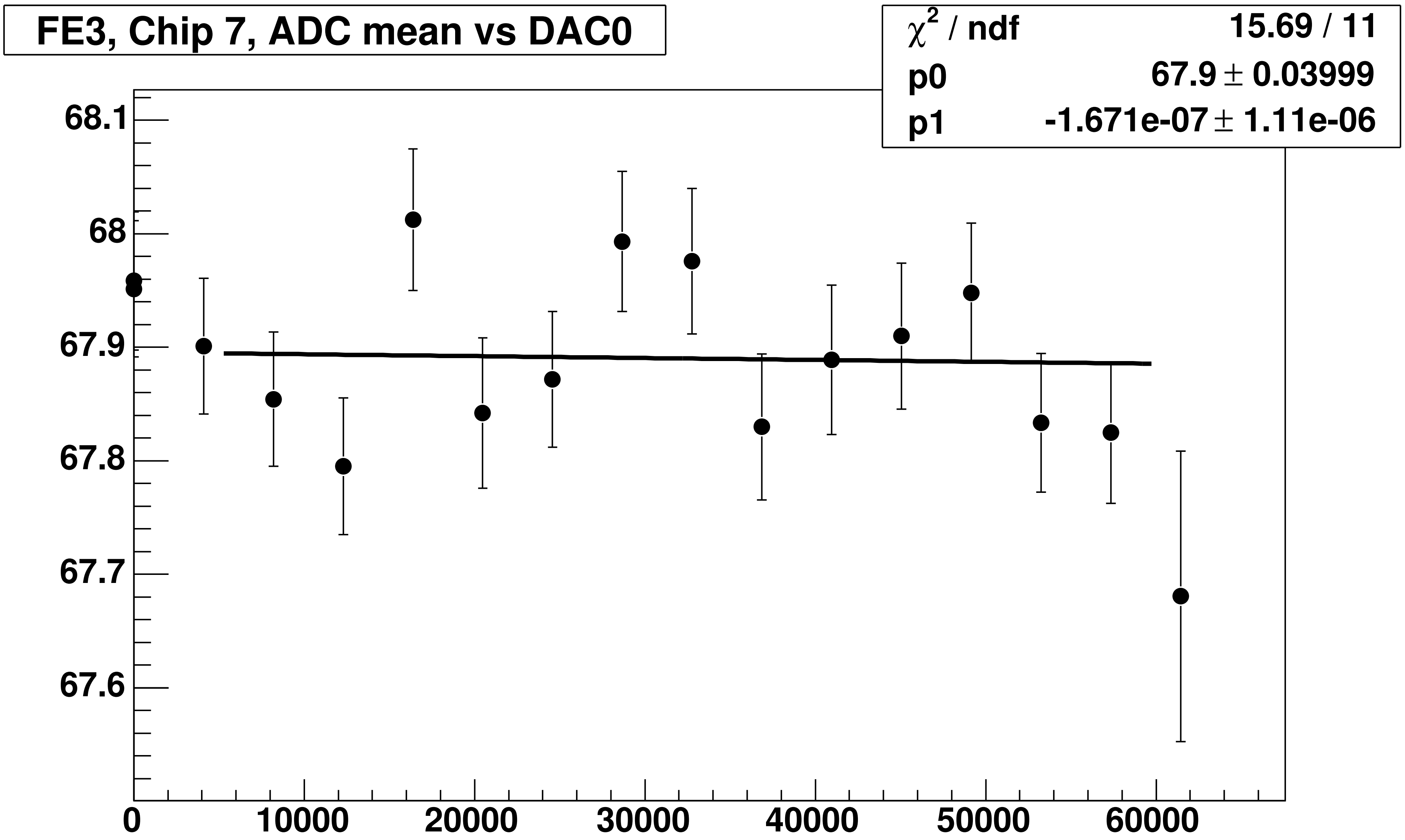

FE3, Chip 6, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

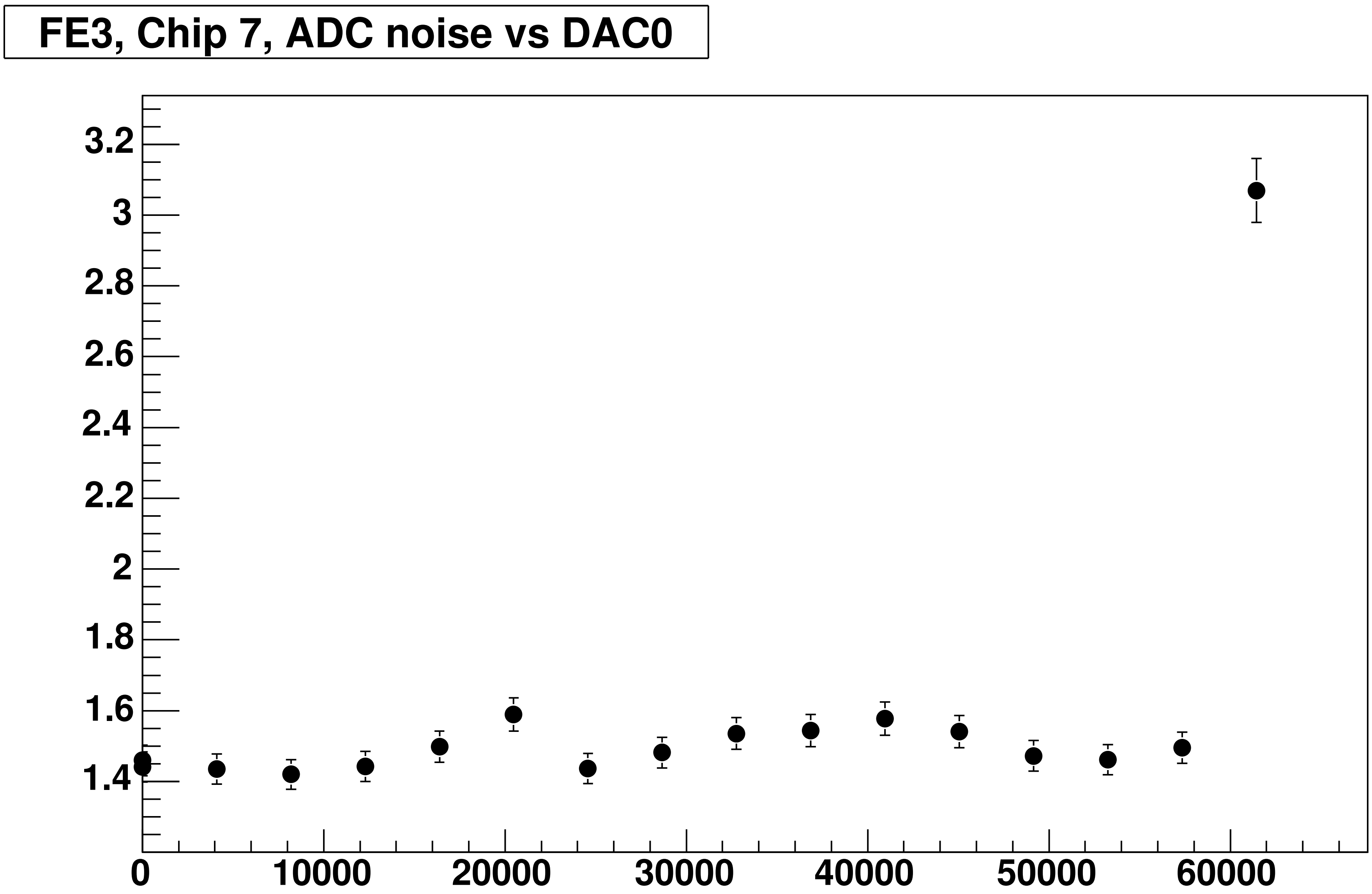

FE3, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000


FE3, Chip 6, ADC mean vs DAC1
χ^2 / ndf 2834 / 11
p0 67.47 ± 0.04298
p1 0.4512 ± 1.375e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

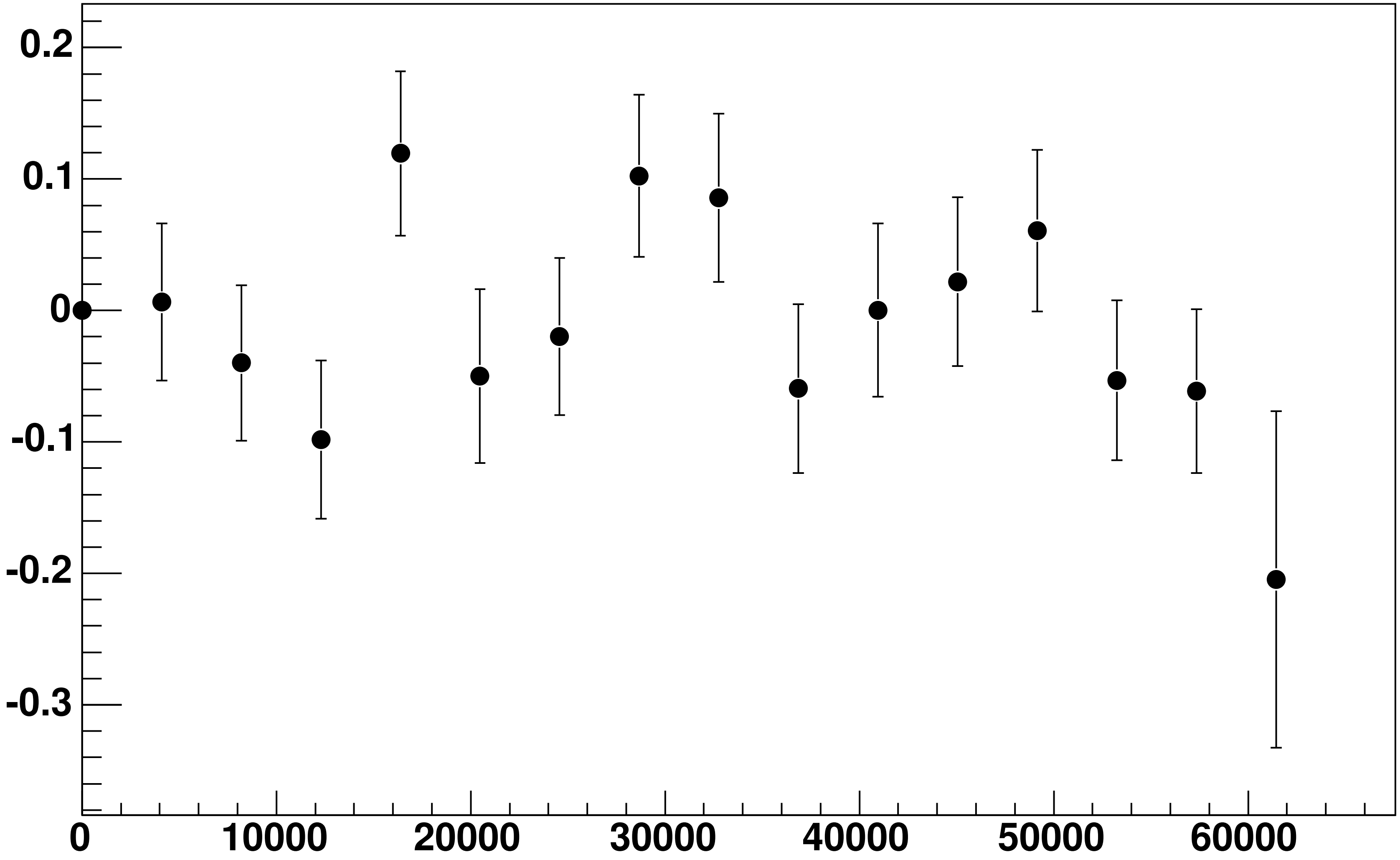

FE3, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

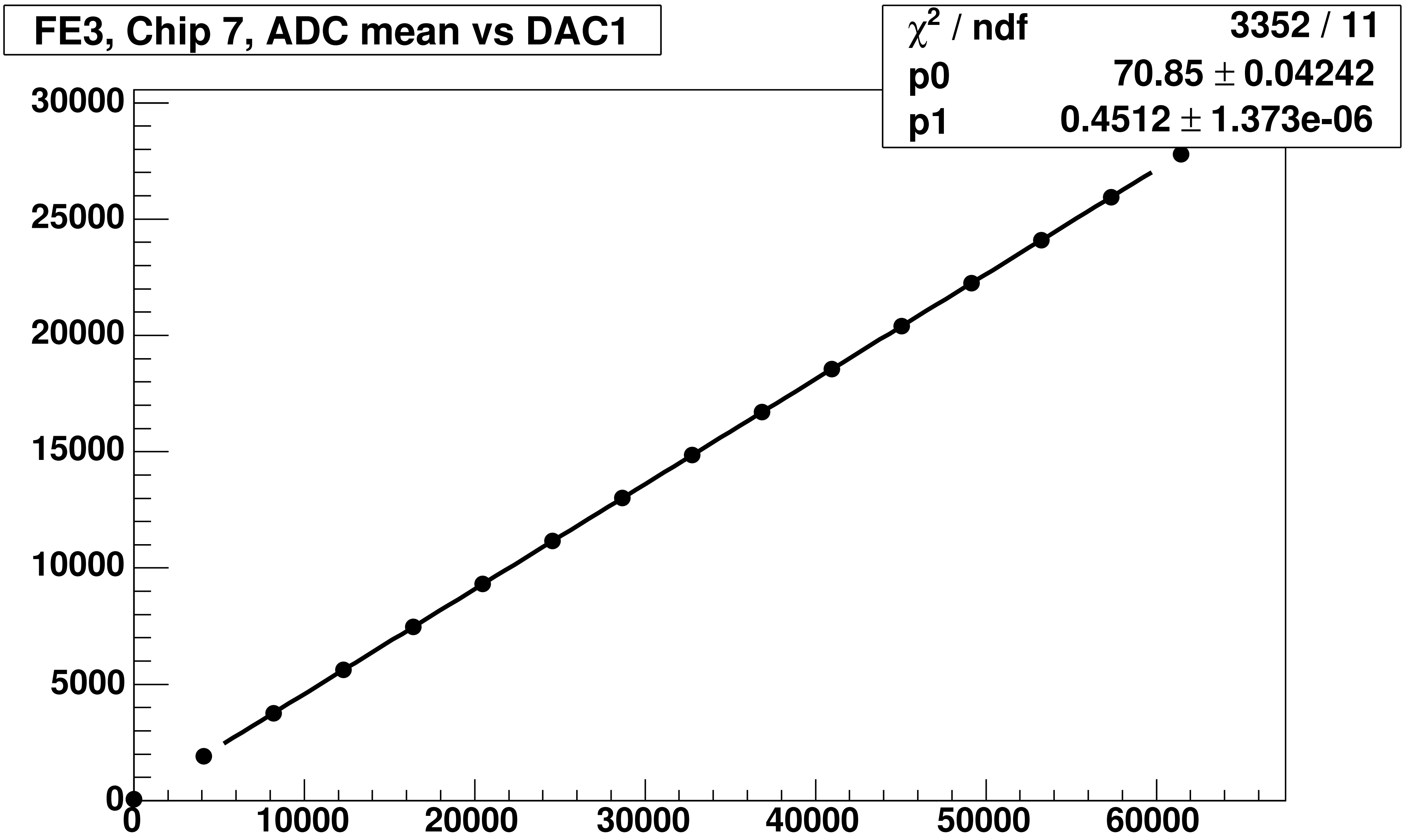

FE3, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000


FE3, Chip 7, ADC mean vs DAC0
χ^2 / ndf 15.69 / 11
p0 67.9 ± 0.03999
p1 -1.671e-07 ± 1.11e-06
68.1
68
67.9
67.8
67.7
67.6
0
10000
20000
30000
40000
50000
60000

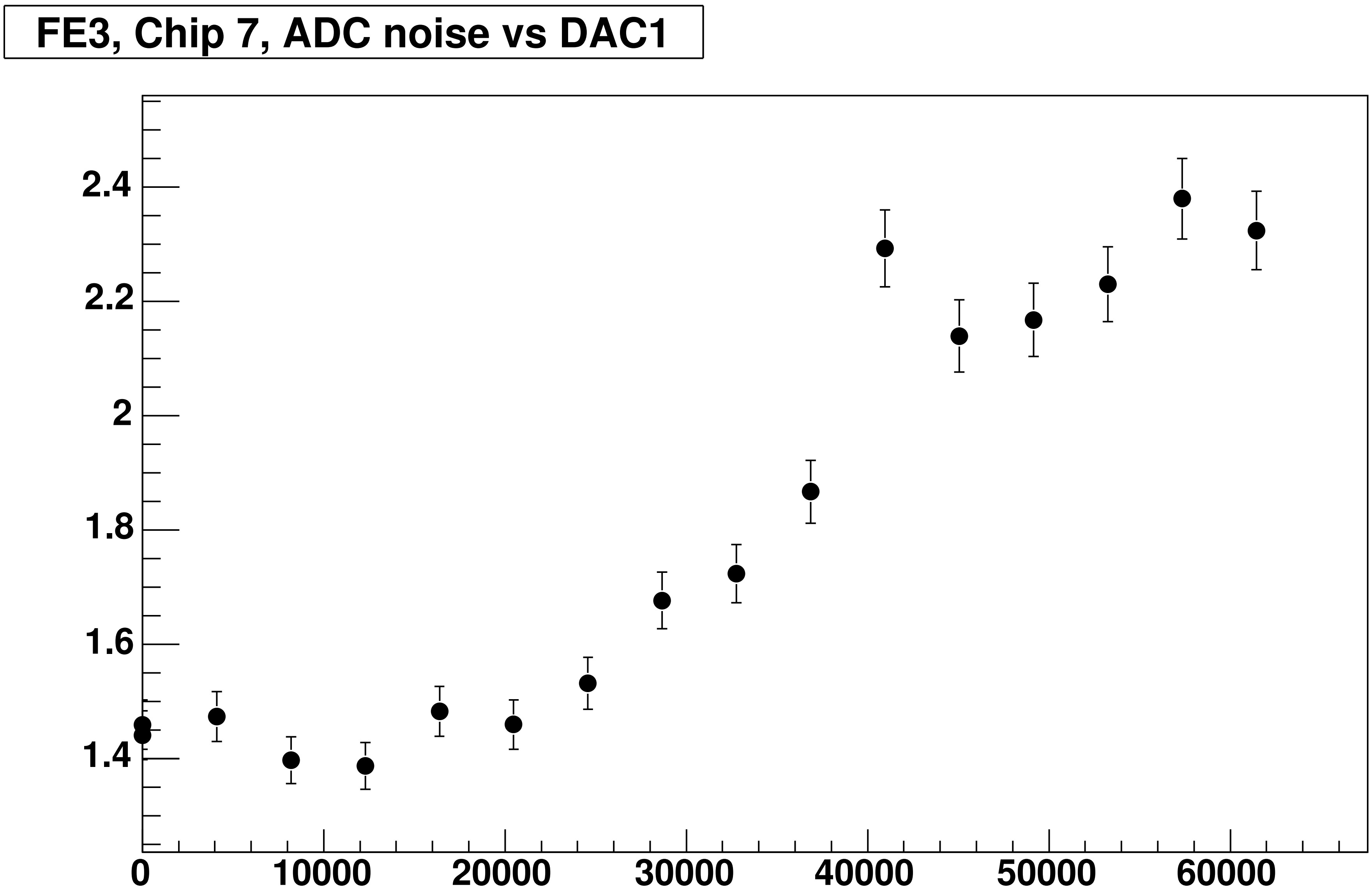

FE3, Chip 7, ADC noise vs DAC0
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

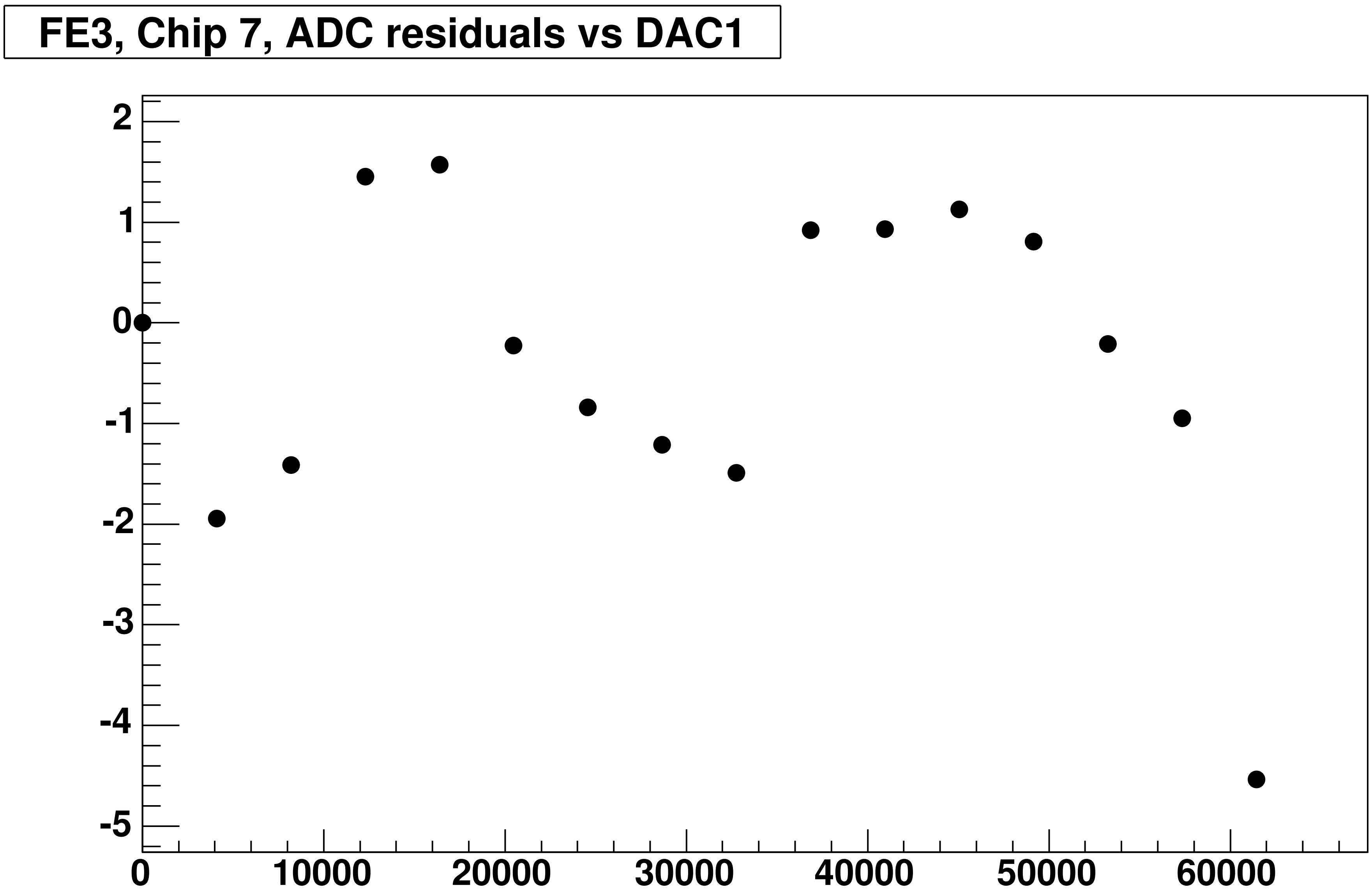
FE3, Chip 7, ADC residuals vs DAC0

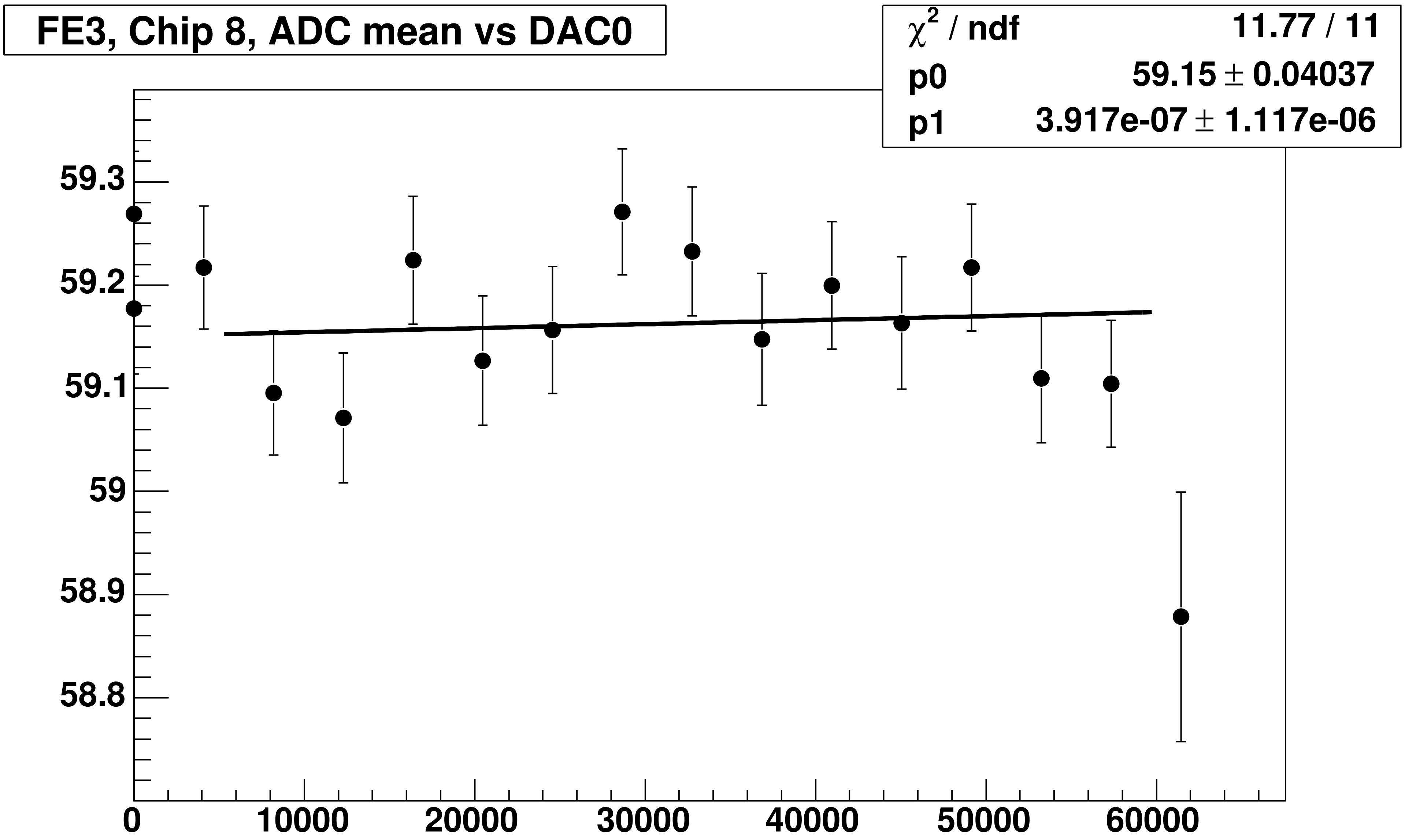


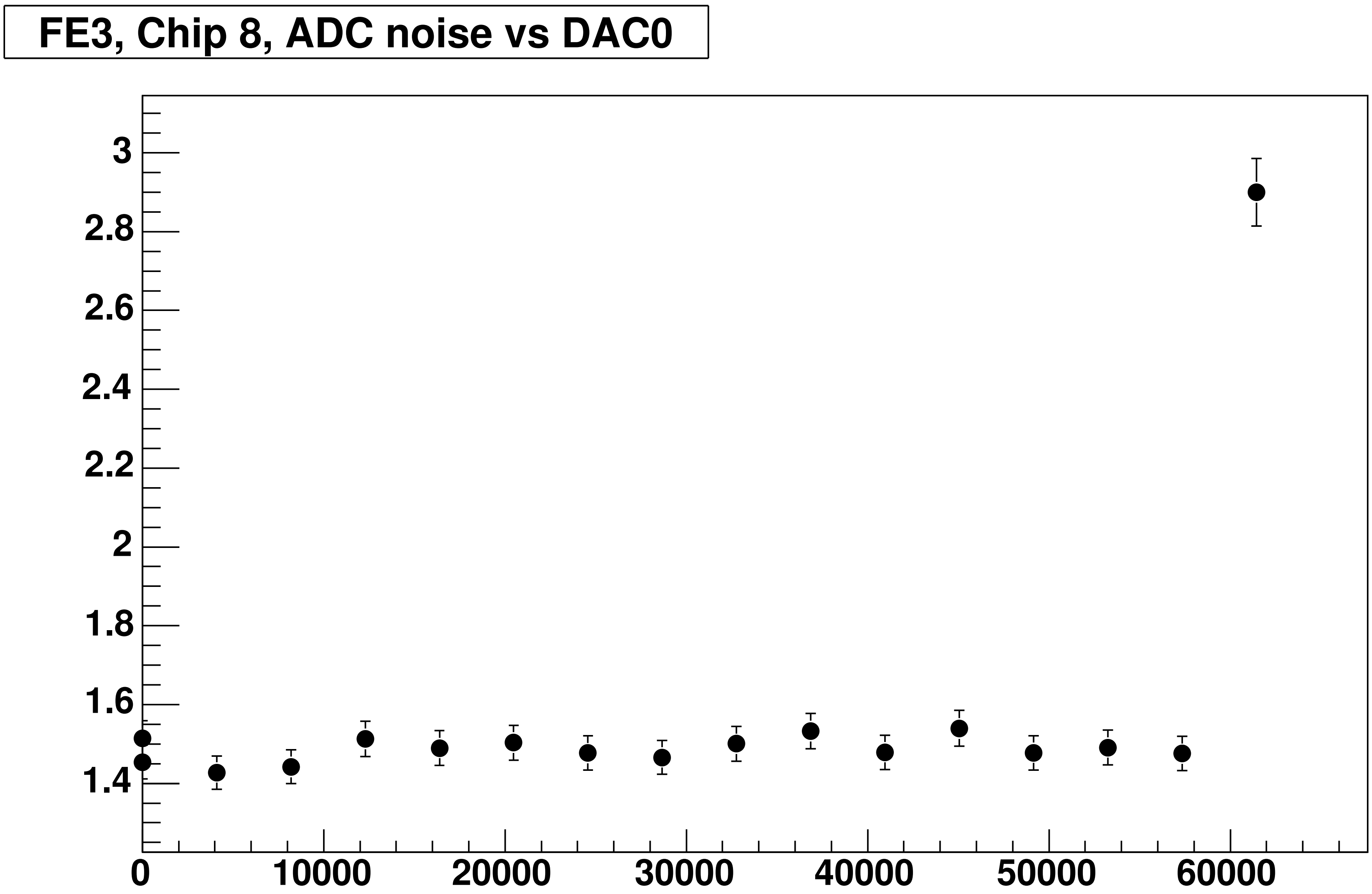


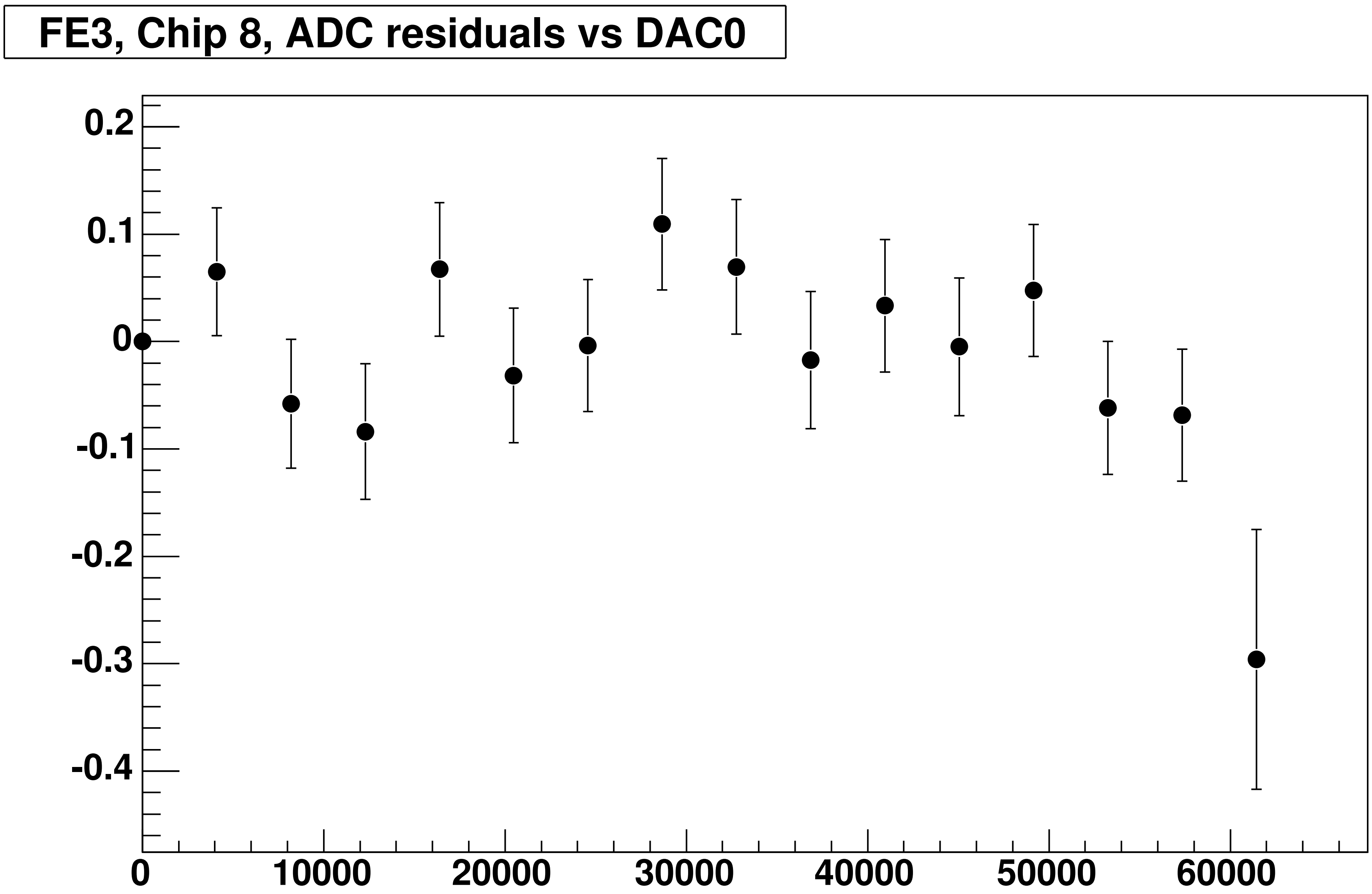
FE3, Chip 7, ADC mean vs DAC1
χ^2 / ndf 3352 / 11
p0 70.85 ± 0.04242
p1 0.4512 ± 1.373e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

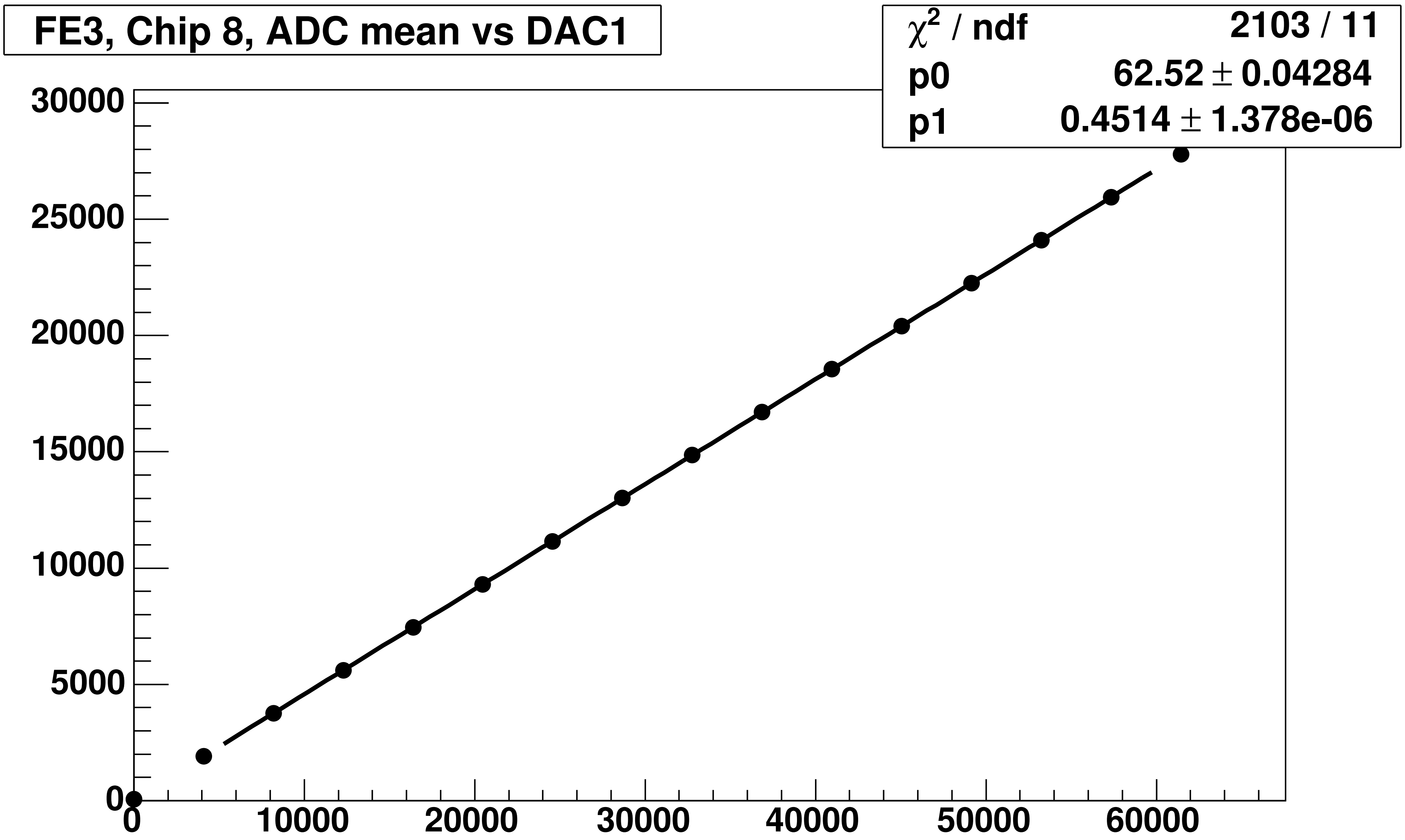

FE3, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

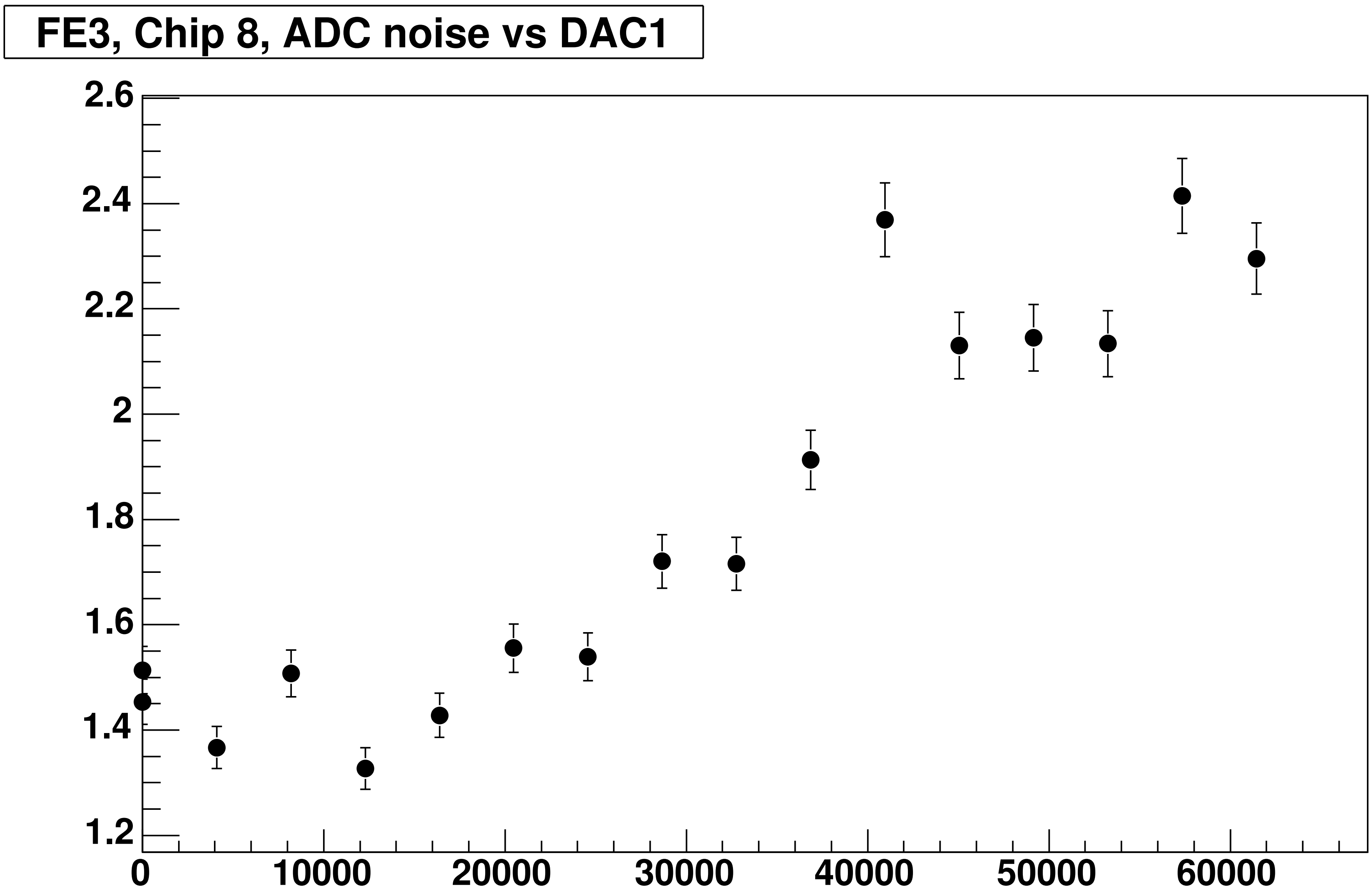

FE3, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE3, Chip 8, ADC mean vs DAC0
χ^2 / ndf 11.77 / 11
p0 59.15 ± 0.04037
p1 3.917e-07 ± 1.117e-06
59.3
59.2
59.1
59
58.9
58.8
0
10000
20000
30000
40000
50000
60000

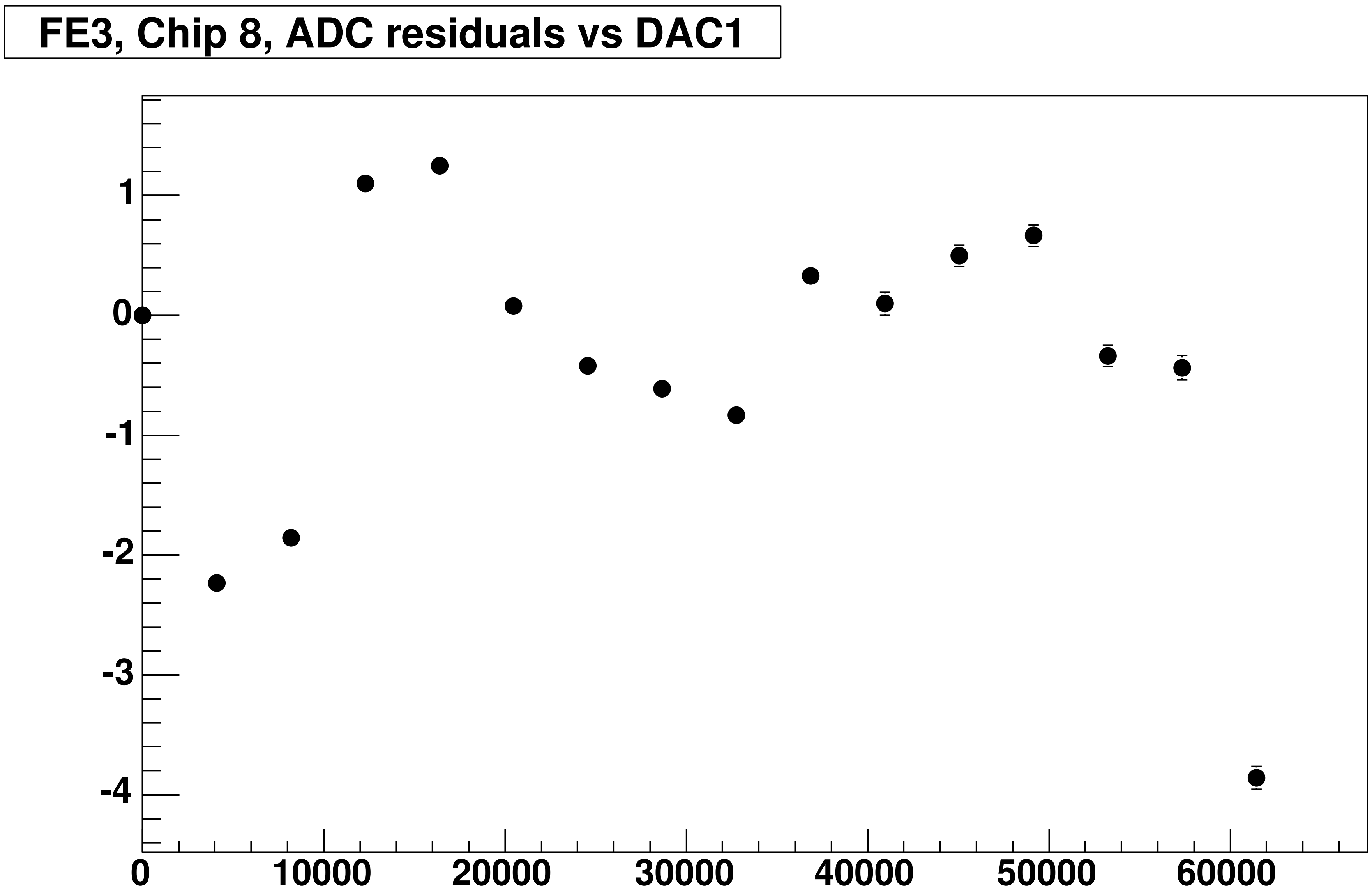

FE3, Chip 8, ADC noise vs DAC0
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

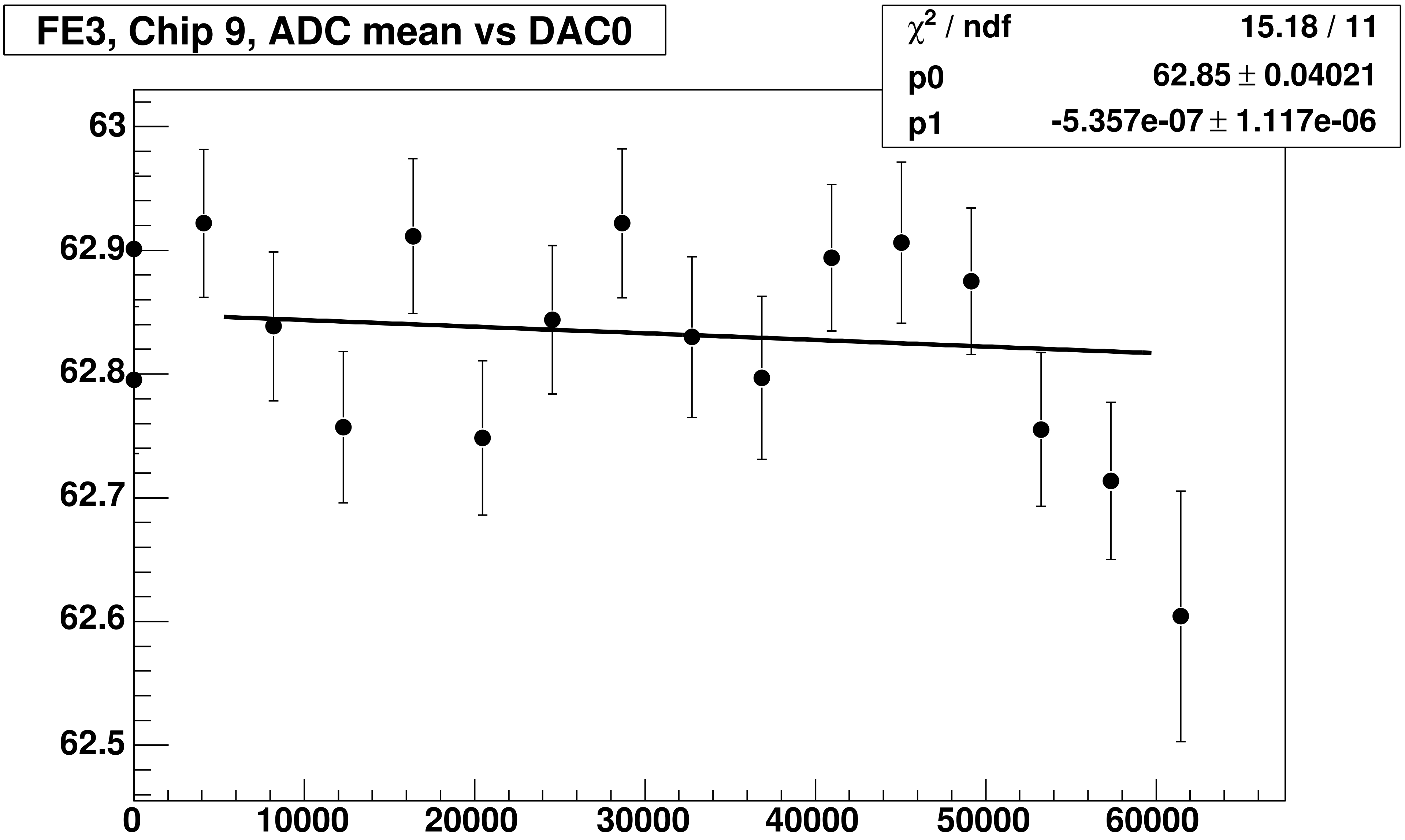

FE3, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000


FE3, Chip 8, ADC mean vs DAC1
χ² / ndf 2103 / 11
p0 62.52 ± 0.04284
p1 0.4514 ± 1.378e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

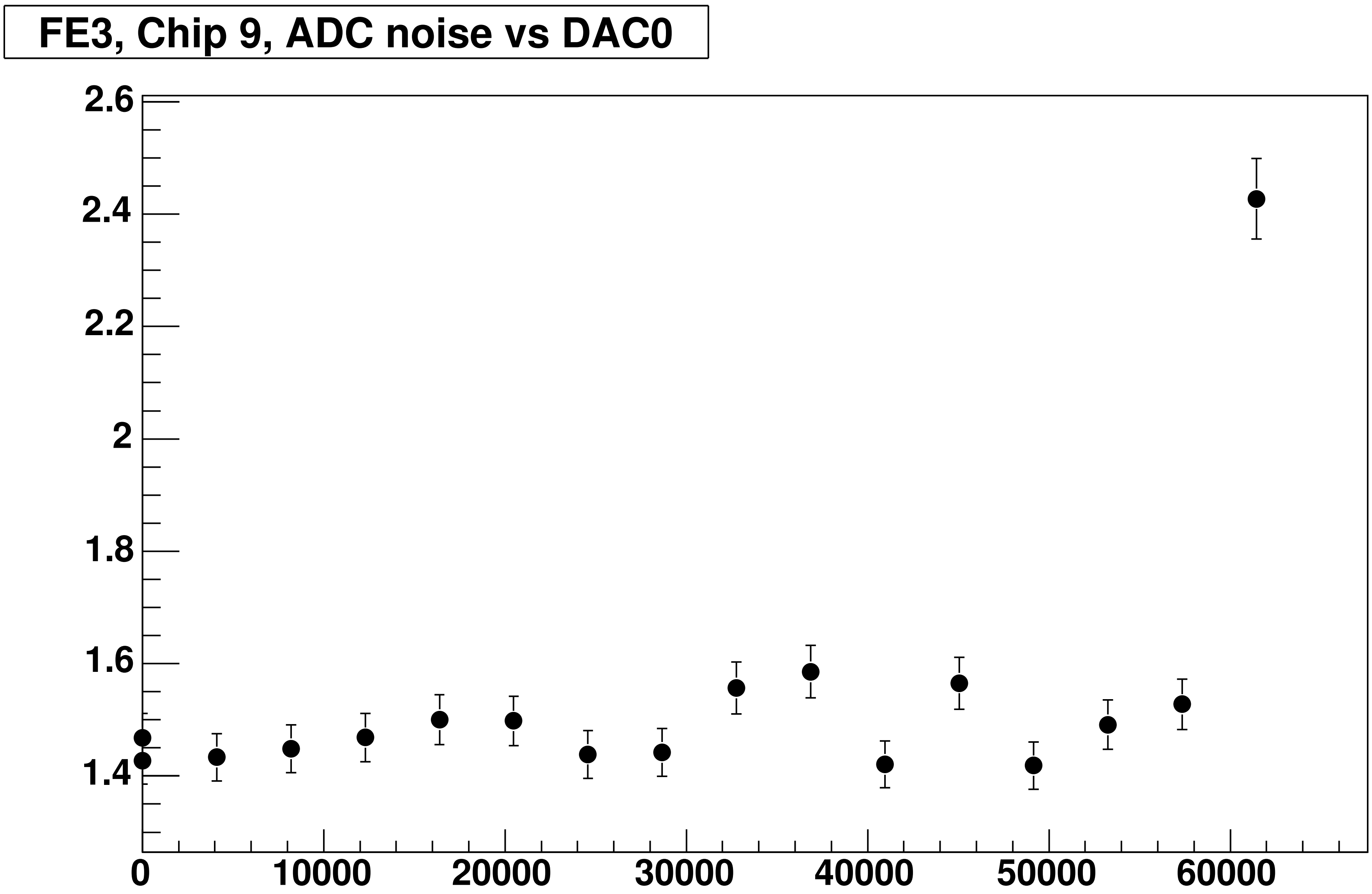


FE3, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

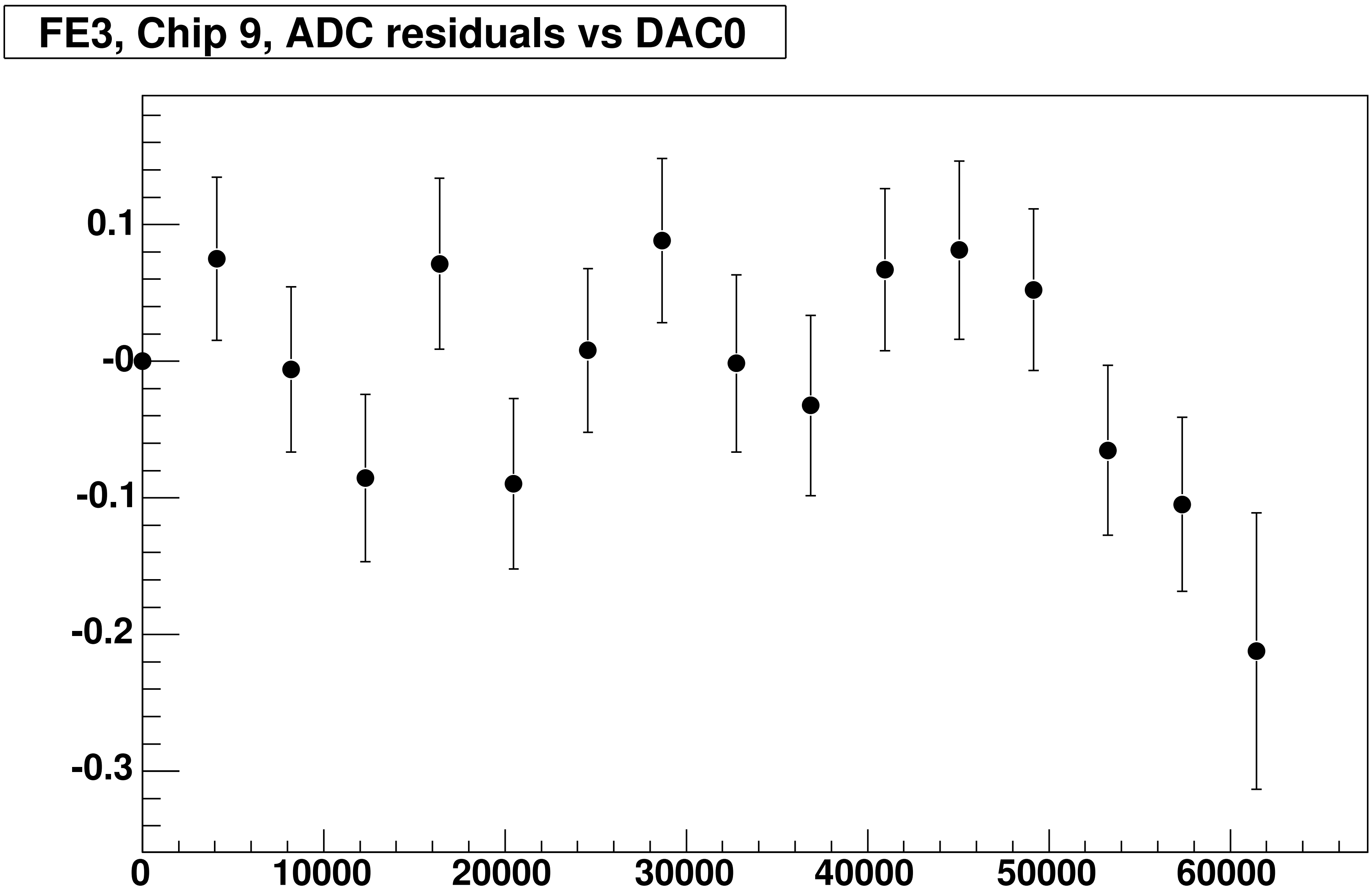

FE3, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



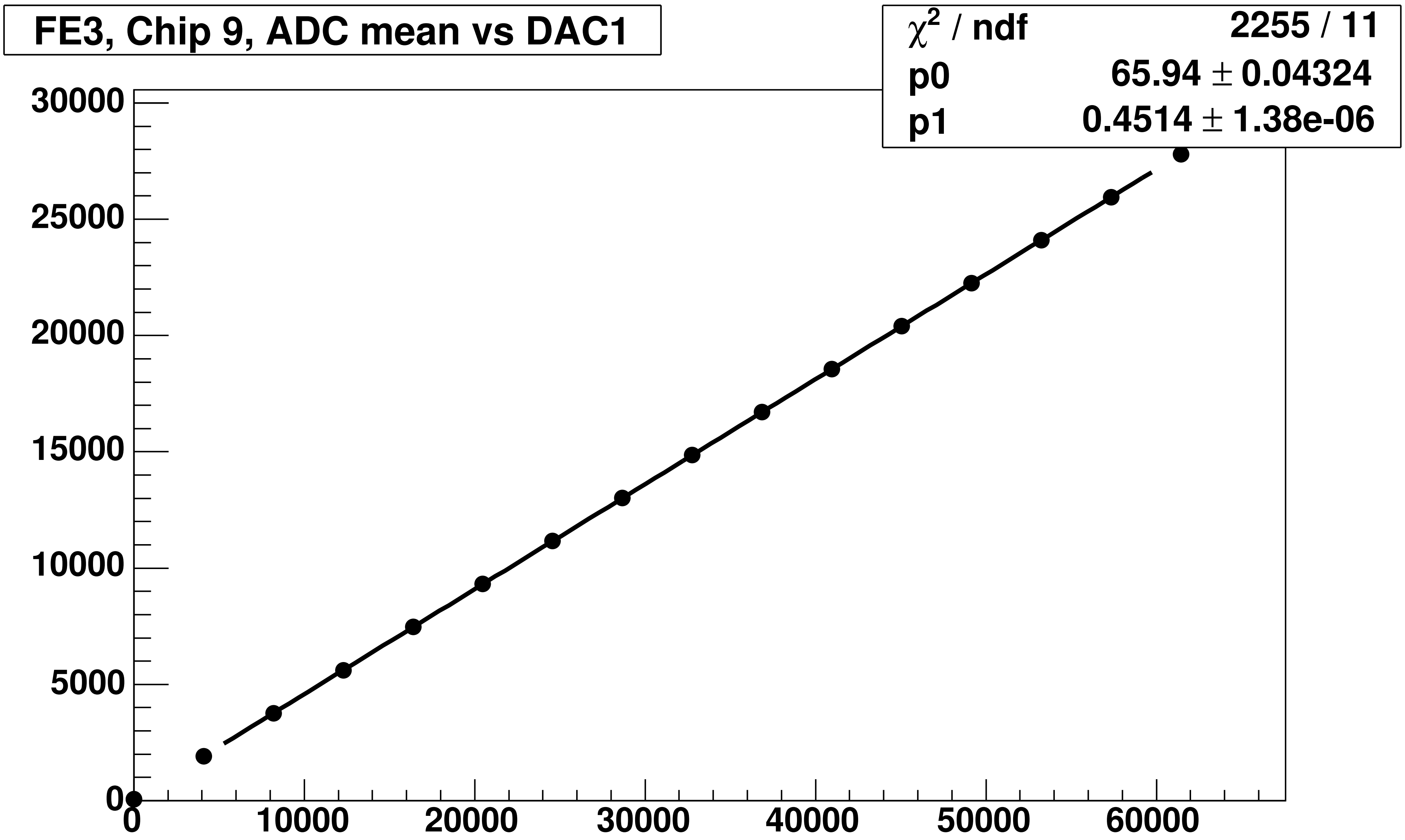
FE3, Chip 9, ADC mean vs DAC0
χ^2 / ndf 15.18 / 11
p0 62.85 ± 0.04021
p1 -5.357e-07 ± 1.117e-06
63
62.9
62.8
62.7
62.6
62.5
0
10000
20000
30000
40000
50000
60000



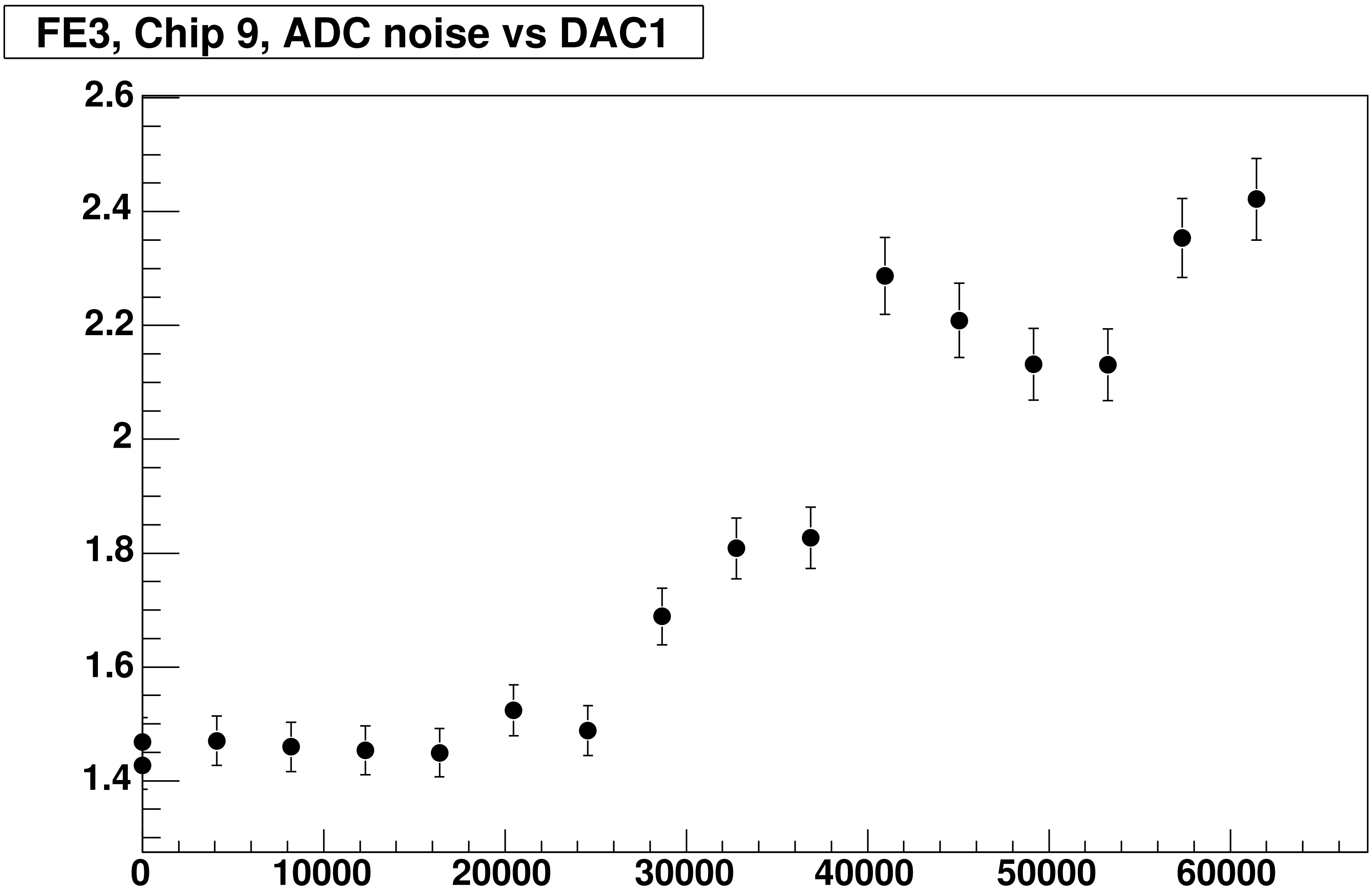
FE3, Chip 9, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



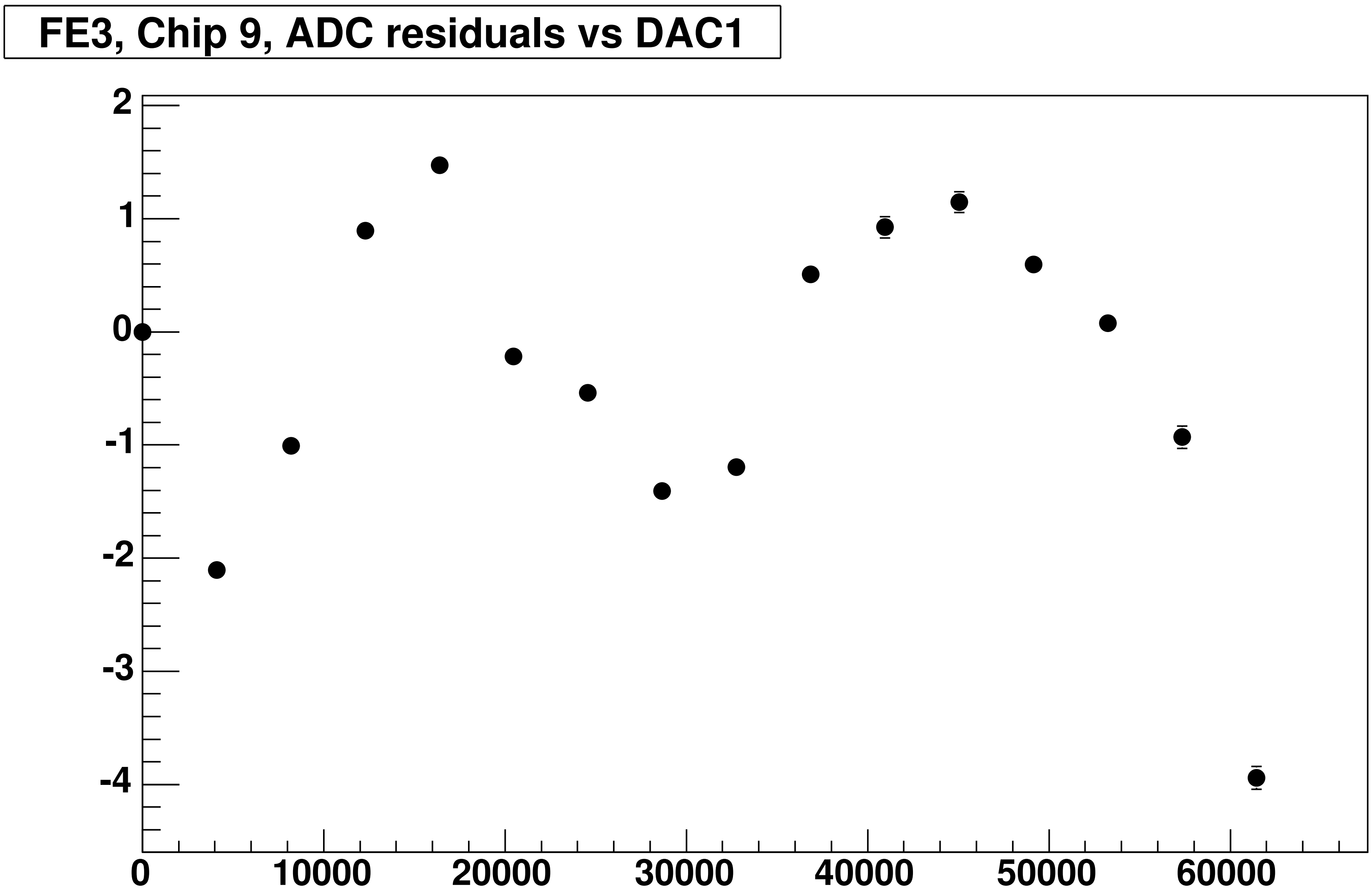
FE3, Chip 9, ADC residuals vs DAC0
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

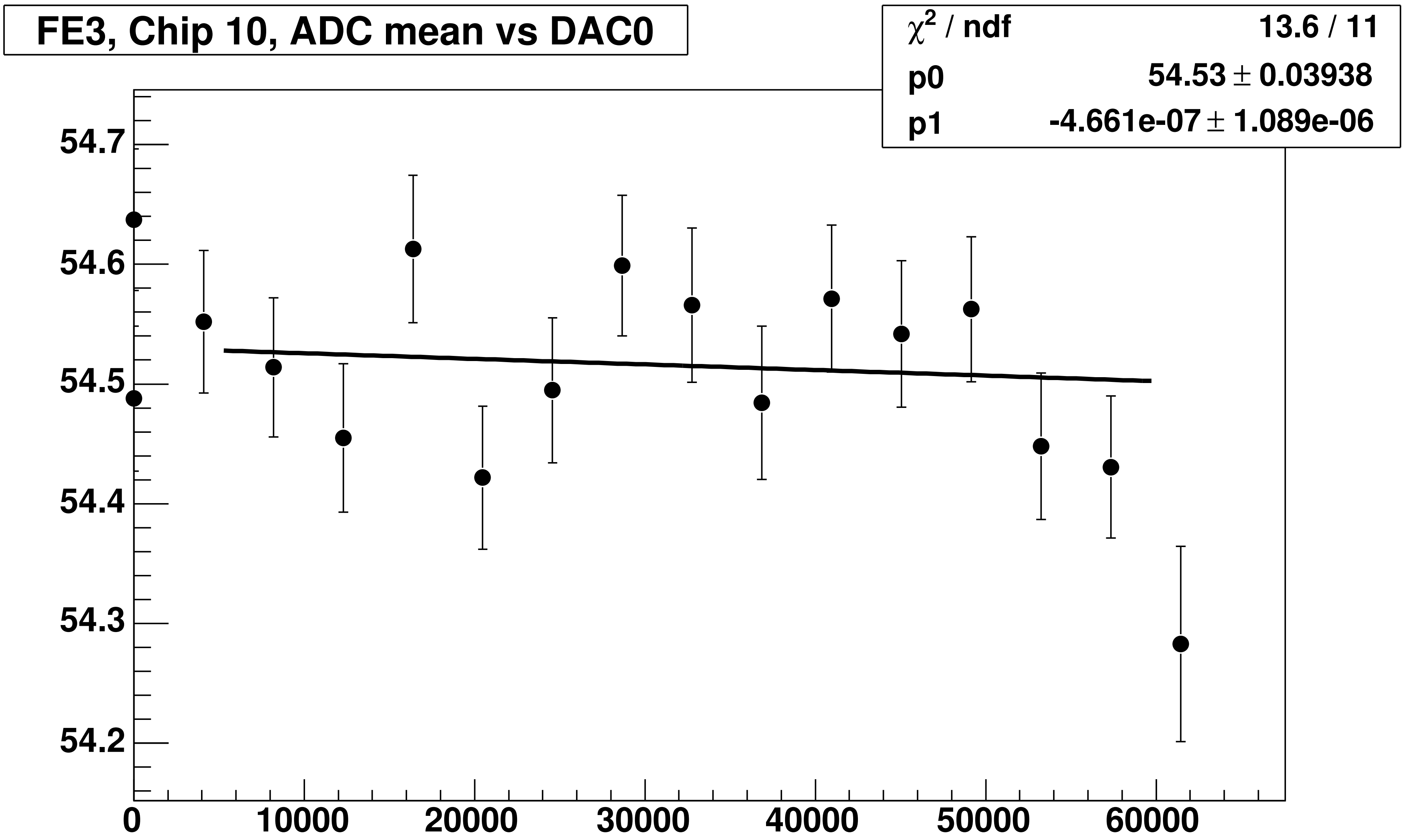


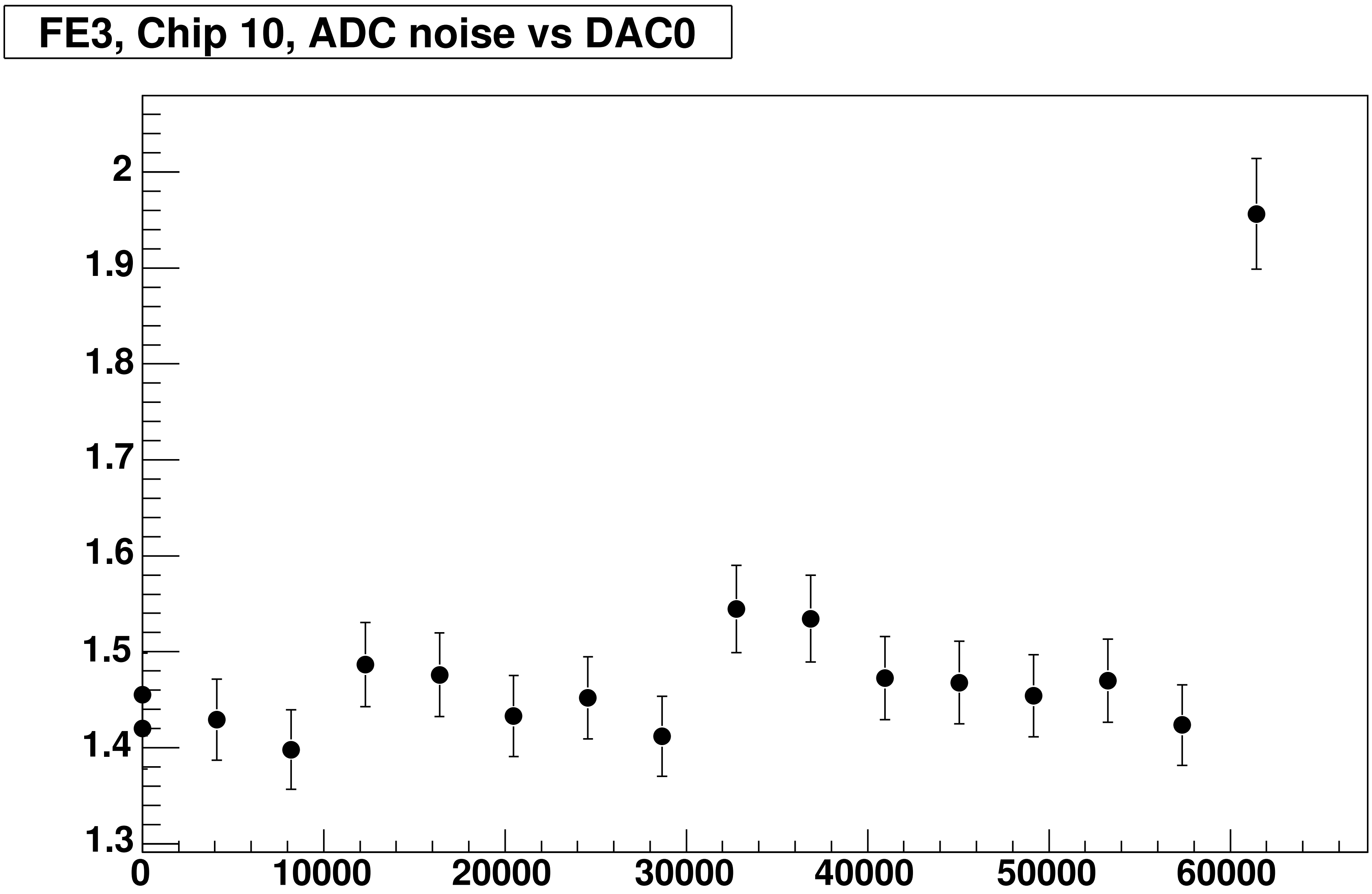
FE3, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2255 / 11
p0 65.94 ± 0.04324
p1 0.4514 ± 1.38e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

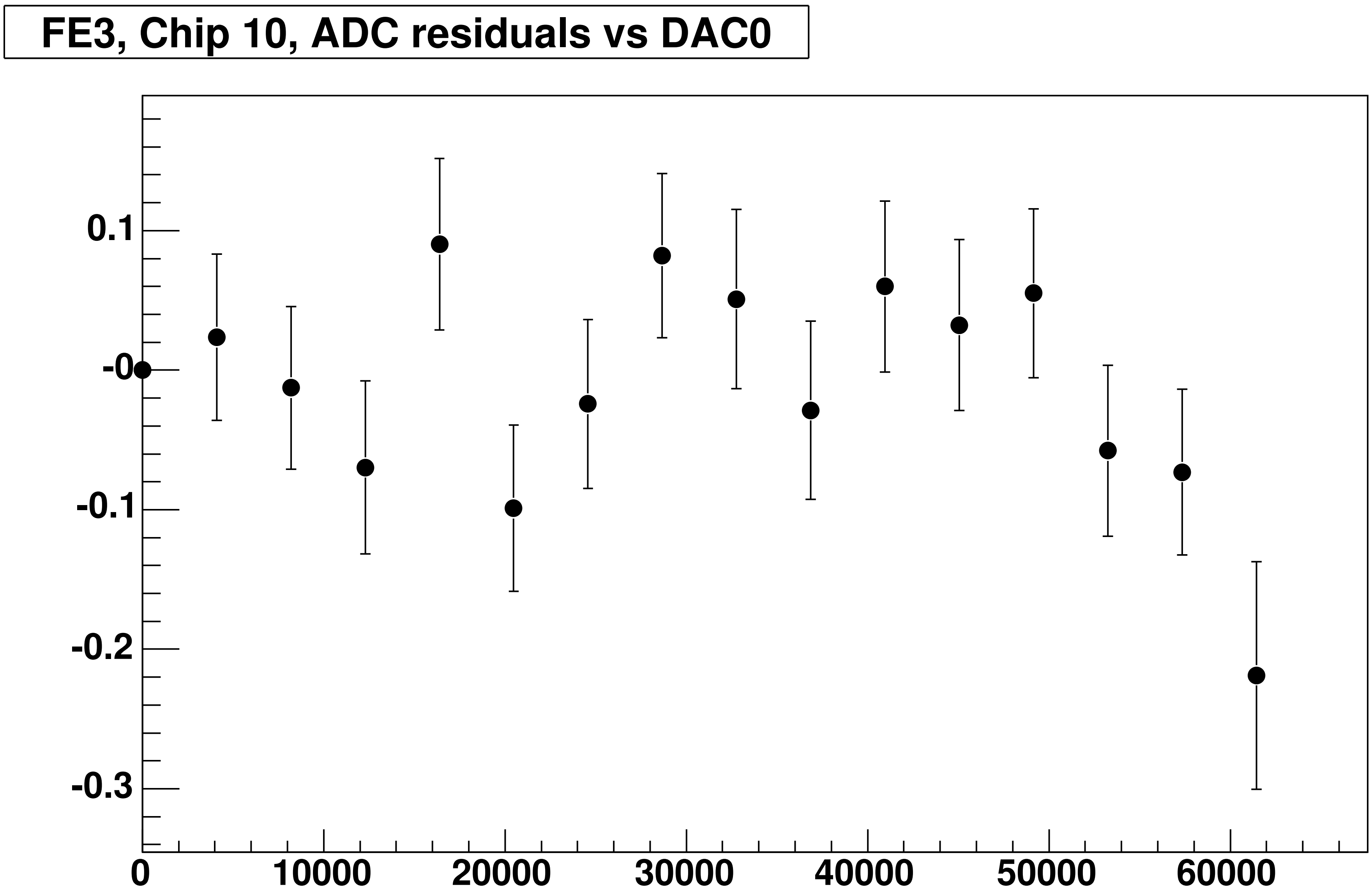


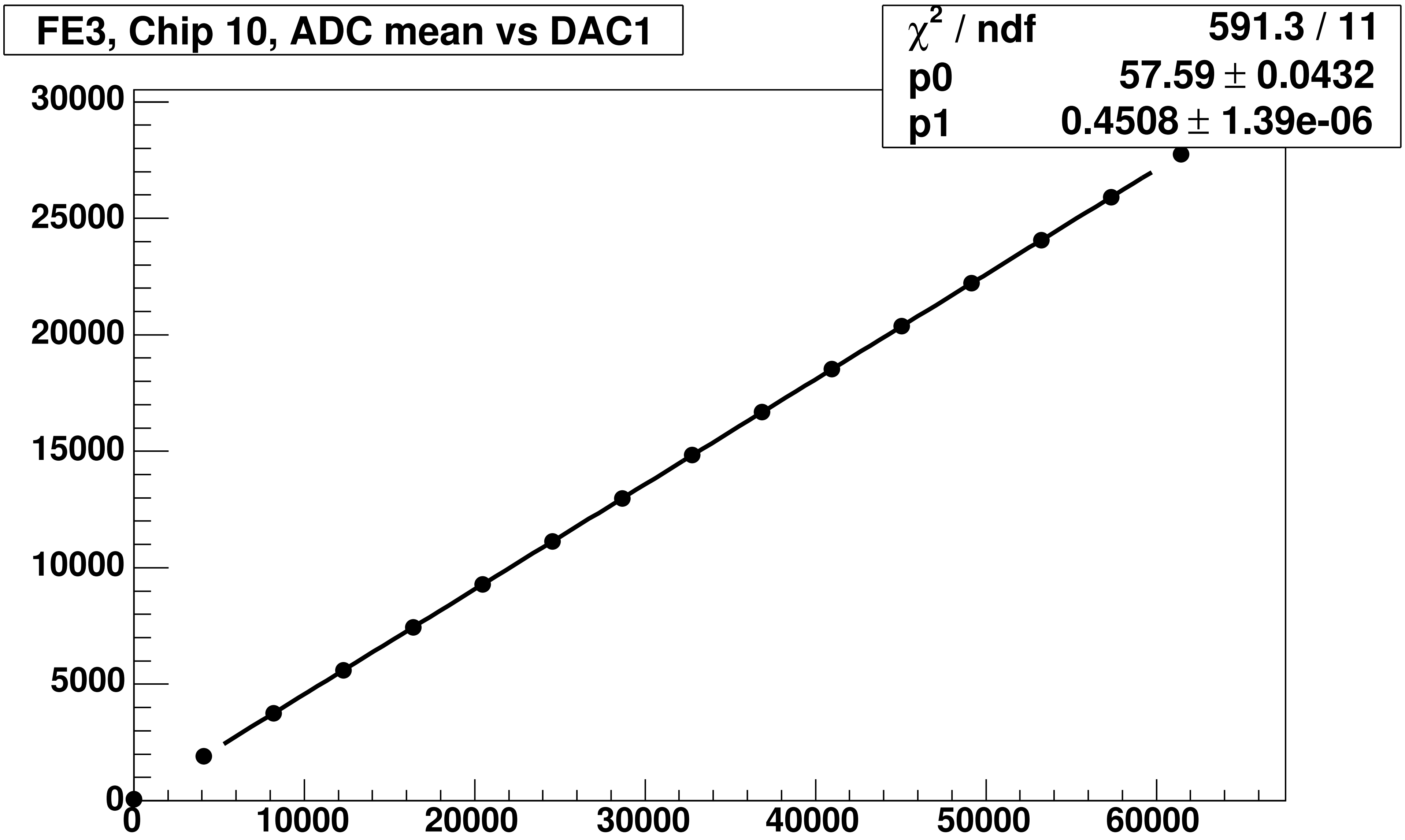
FE3, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

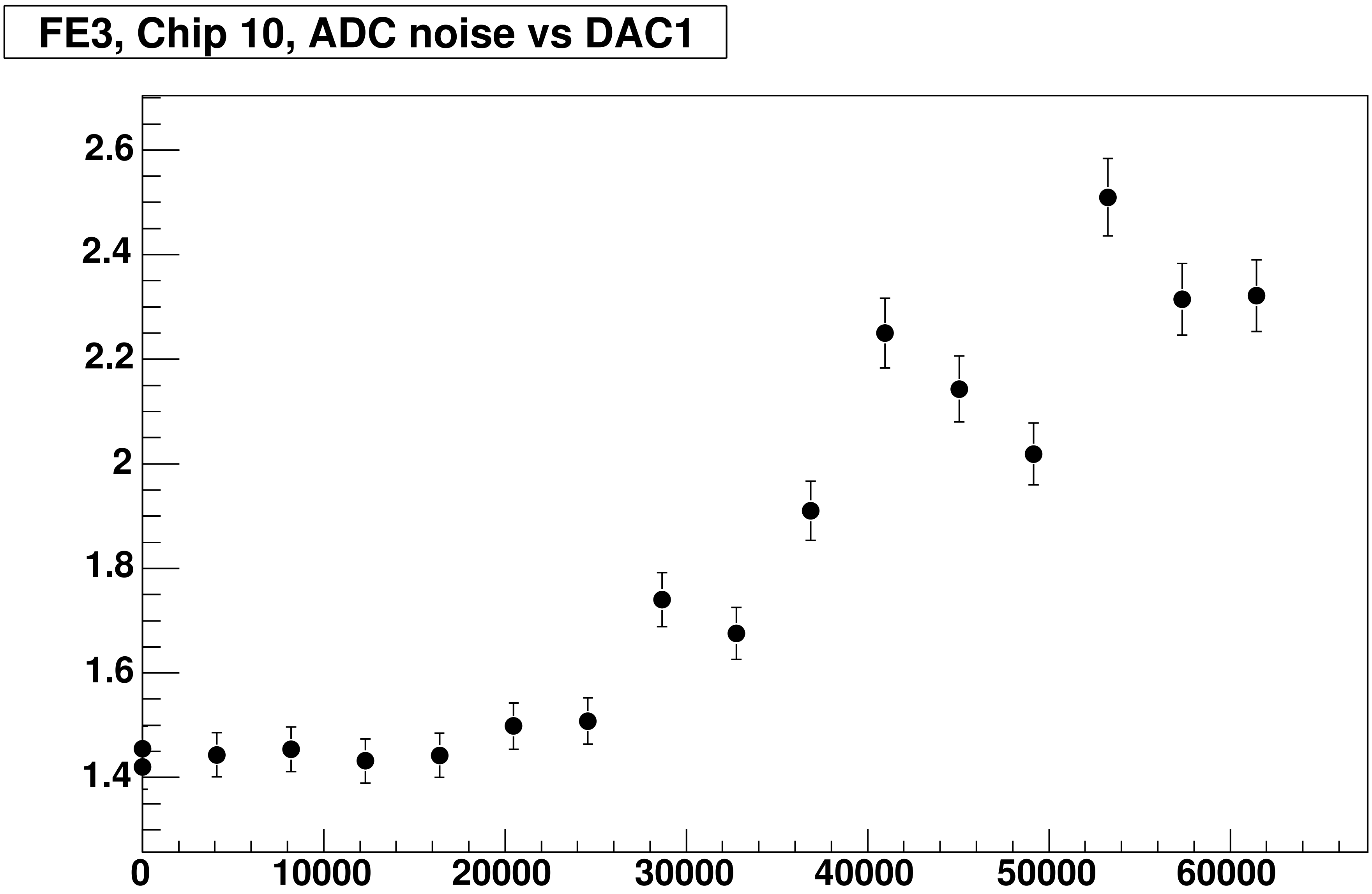

FE3, Chip 10, ADC mean vs DAC0
χ^2 / ndf 13.6 / 11
p0 54.53 ± 0.03938
p1 -4.661e-07 ± 1.089e-06
54.7
54.6
54.5
54.4
54.3
54.2
0
10000
20000
30000
40000
50000
60000


FE3, Chip 10, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

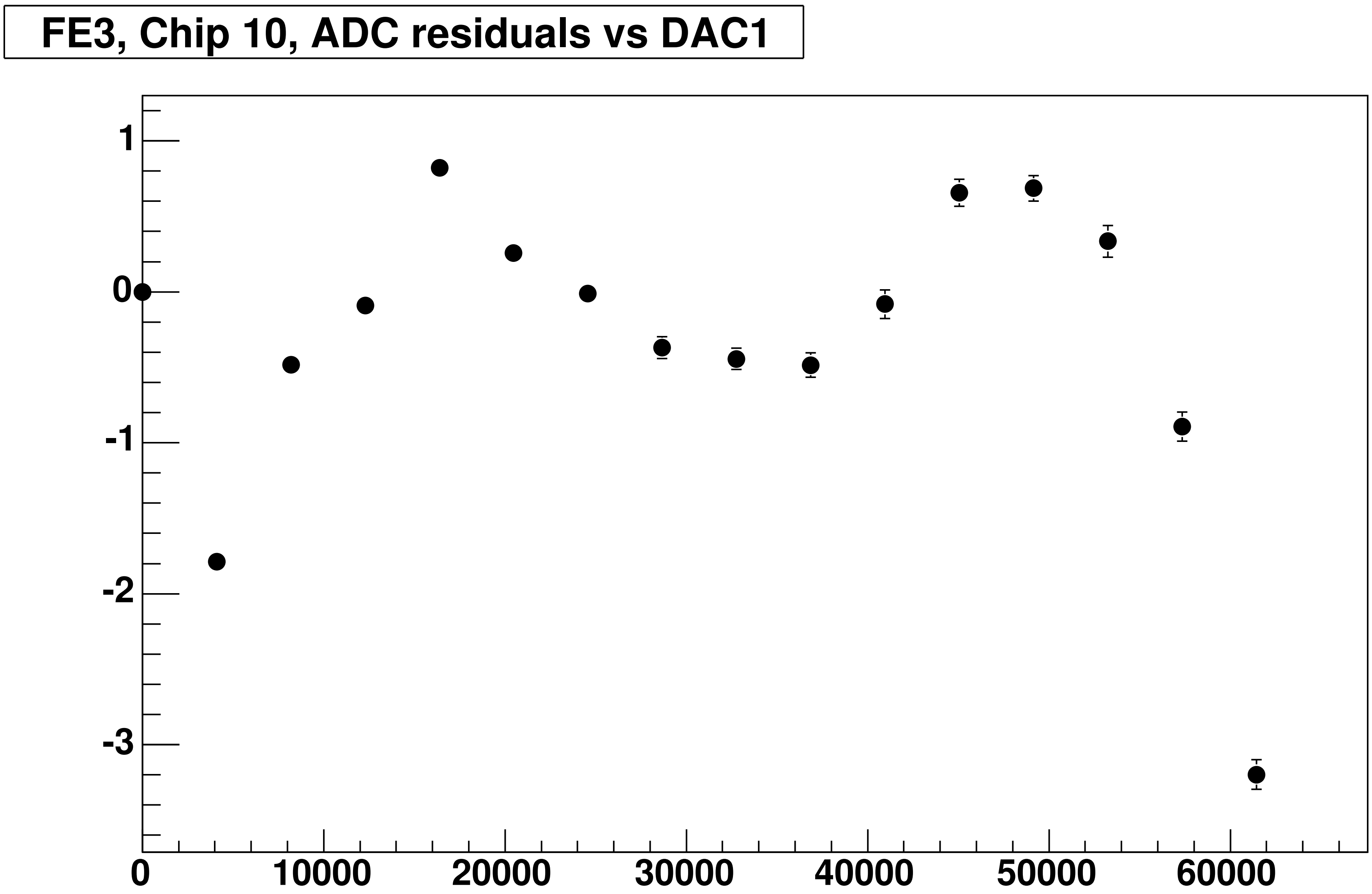

FE3, Chip 10, ADC residuals vs DAC0
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

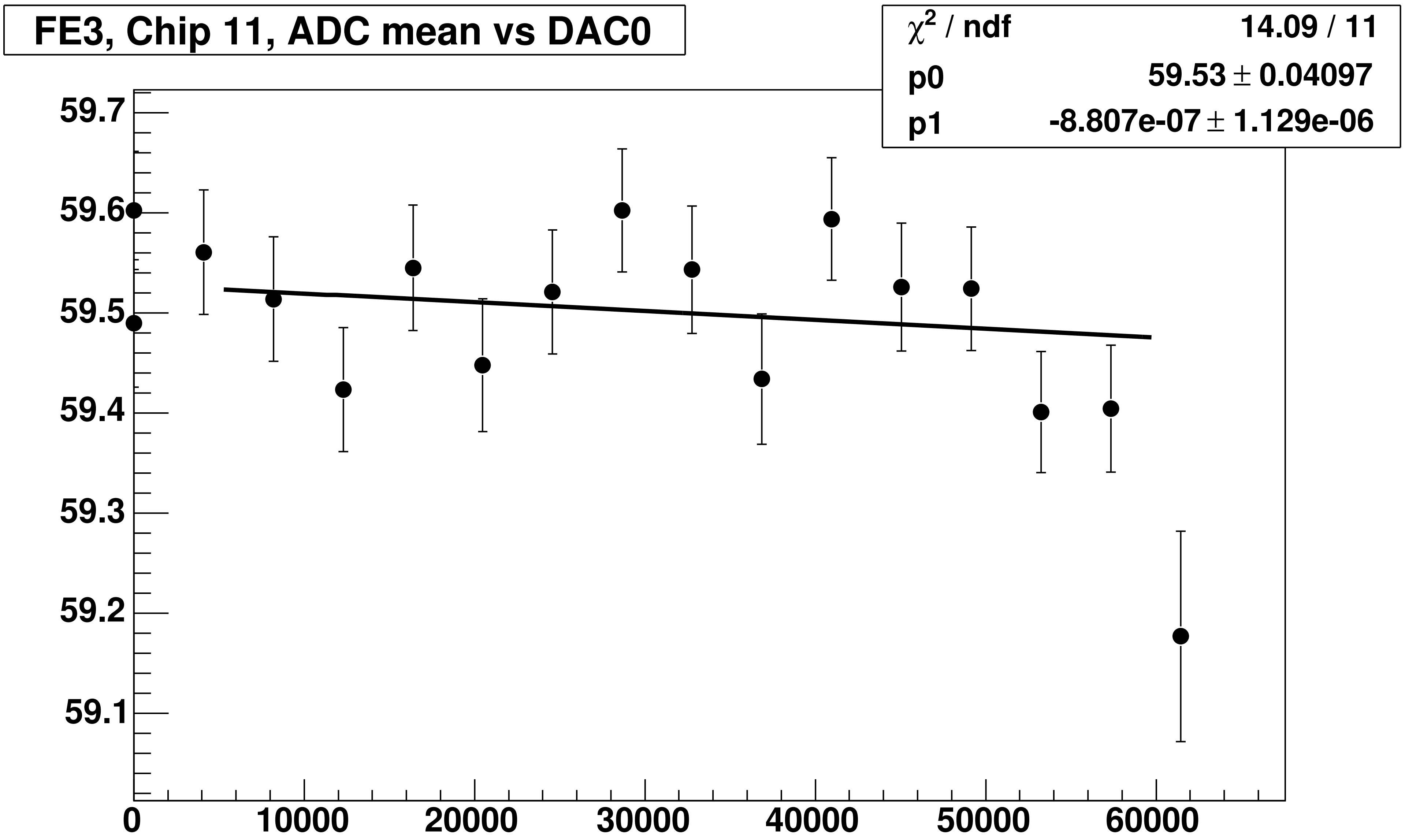


FE3, Chip 10, ADC mean vs DAC1
χ^2 / ndf 591.3 / 11
p0 57.59 ± 0.0432
p1 0.4508 ± 1.39e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

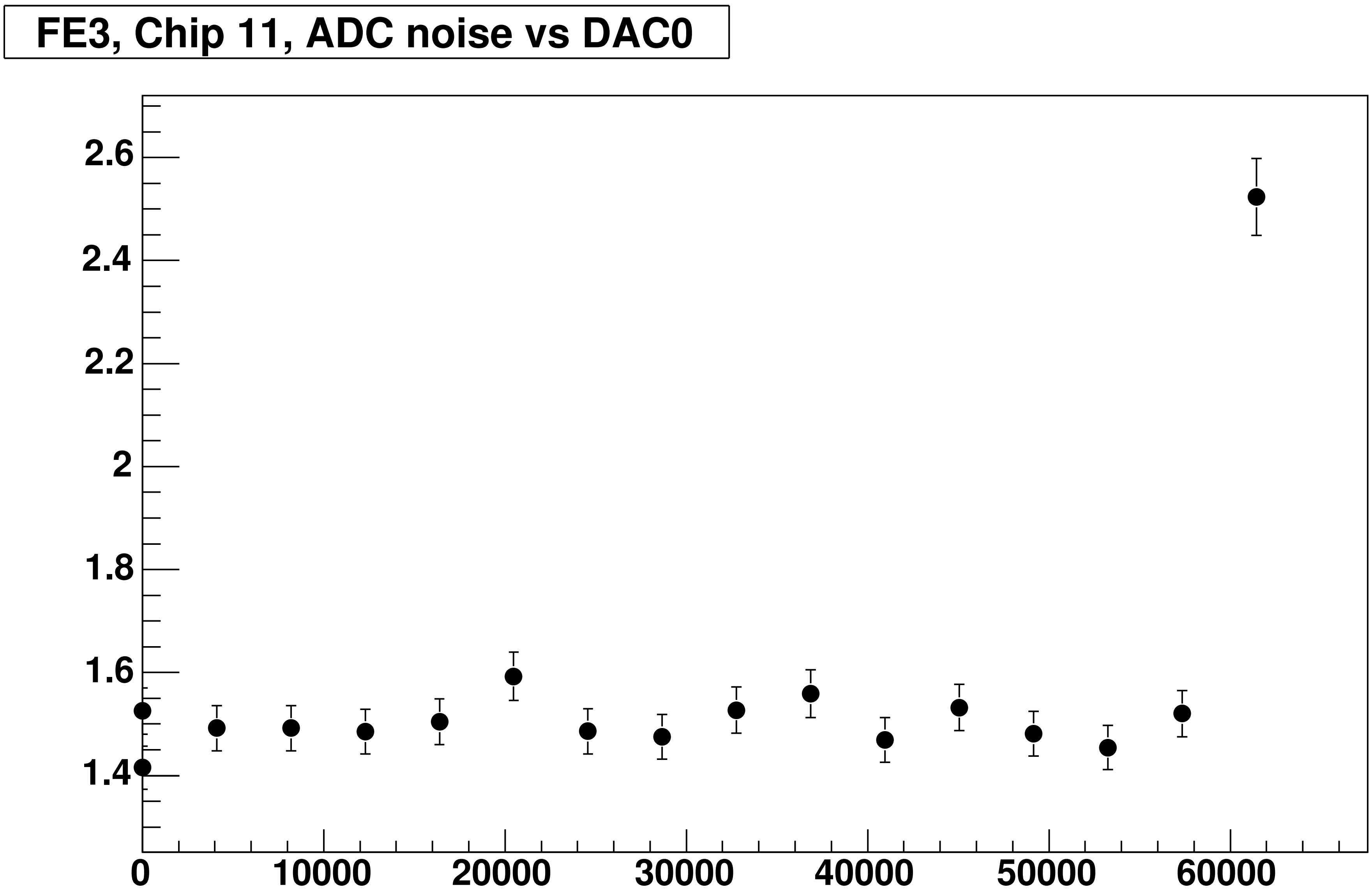


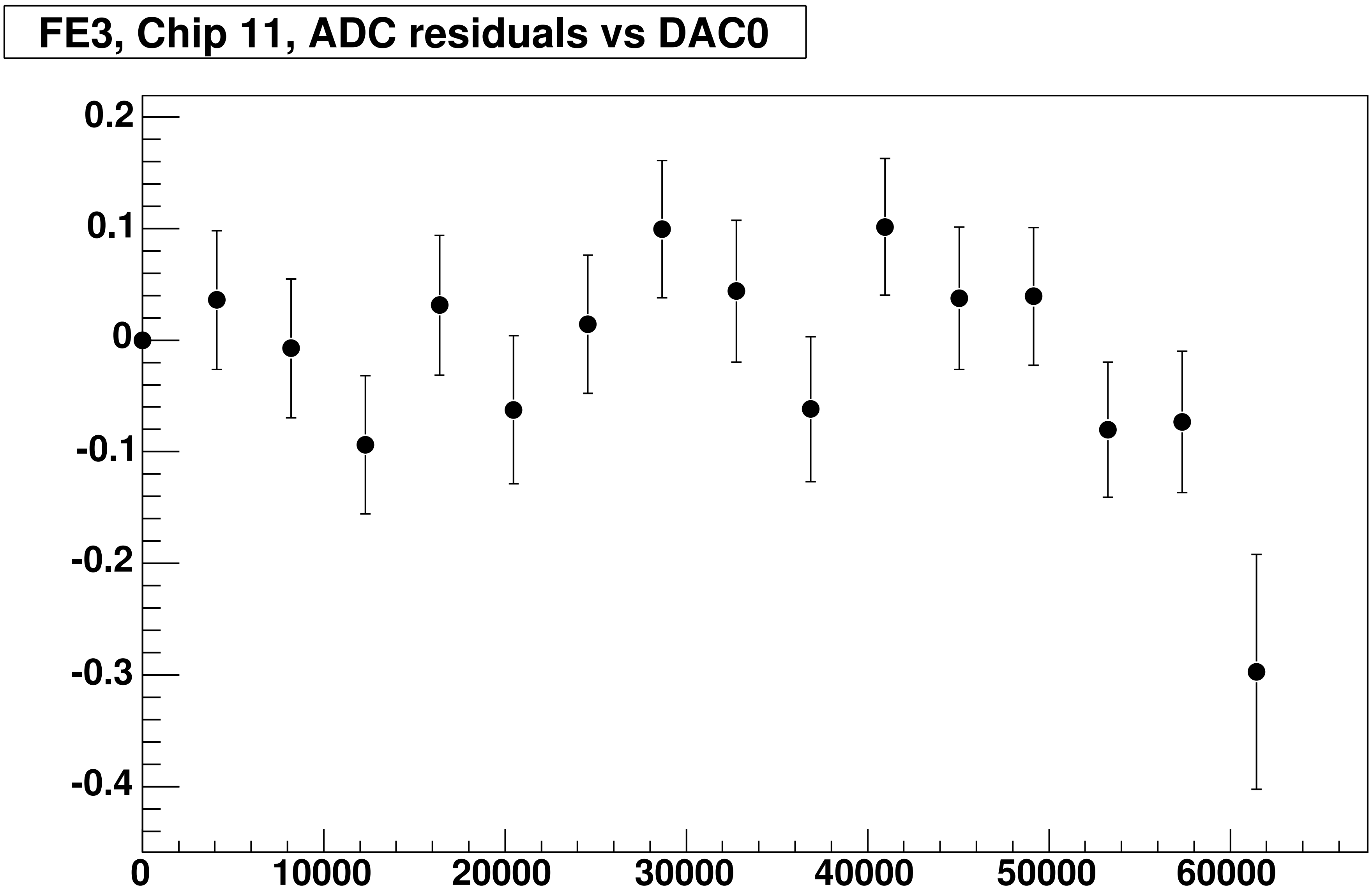
FE3, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

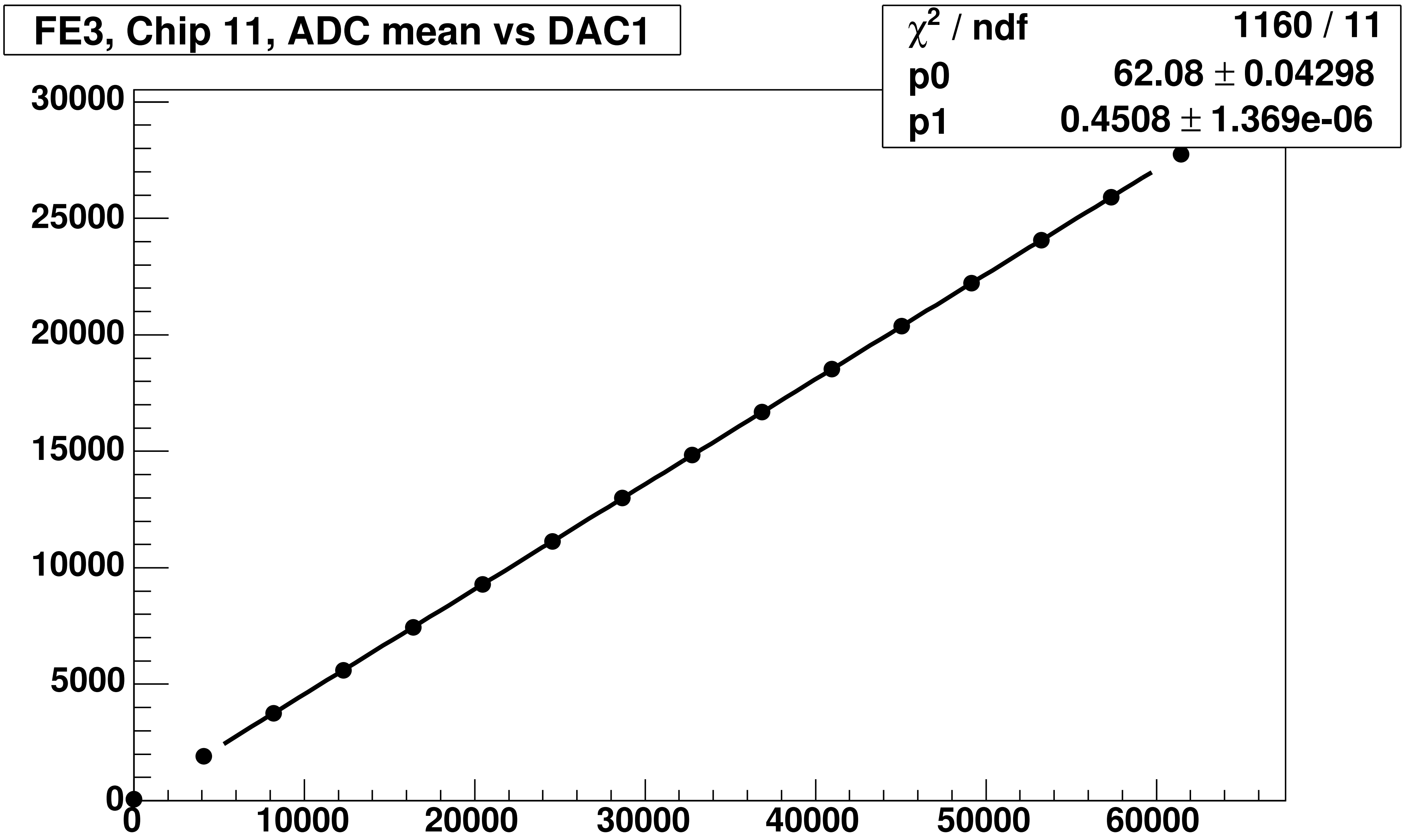

FE3, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
0
10000
20000
30000
40000
50000
60000

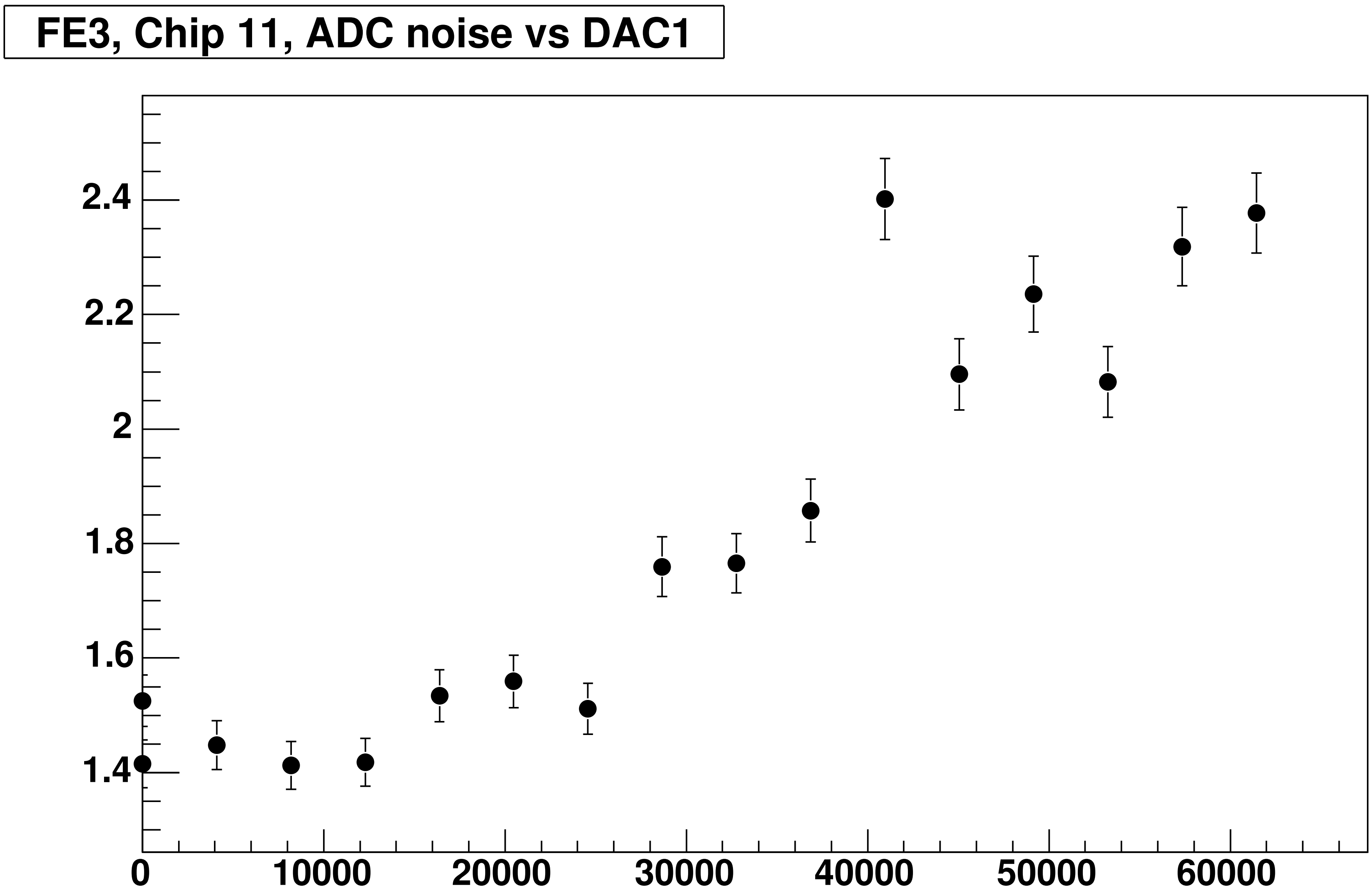


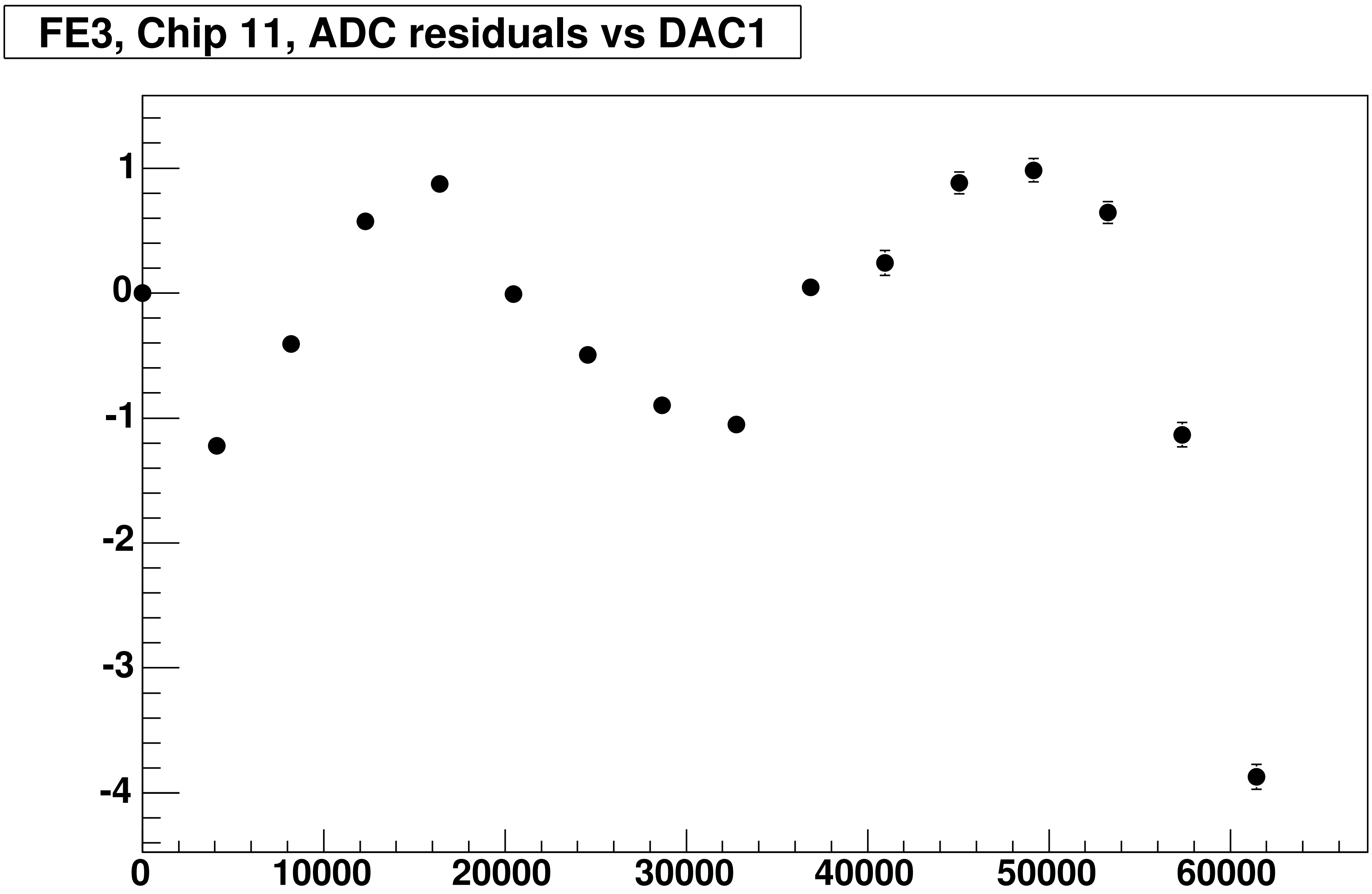
FE3, Chip 11, ADC mean vs DAC0
χ2 / ndf 14.09 / 11
p0 59.53 ± 0.04097
p1 -8.807e-07 ± 1.129e-06
59.7
59.6
59.5
59.4
59.3
59.2
59.1
0
10000
20000
30000
40000
50000
60000

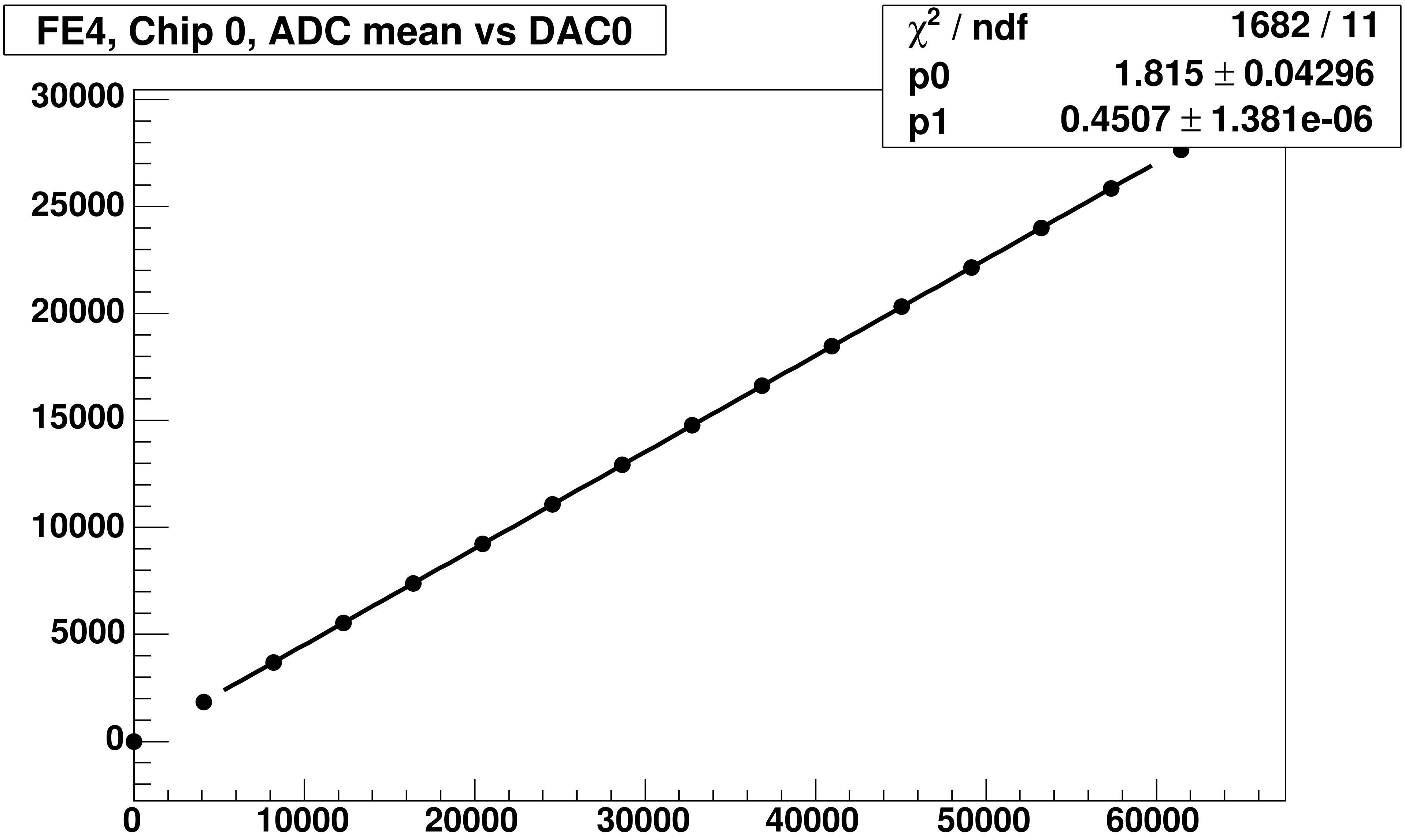

FE3, Chip 11, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

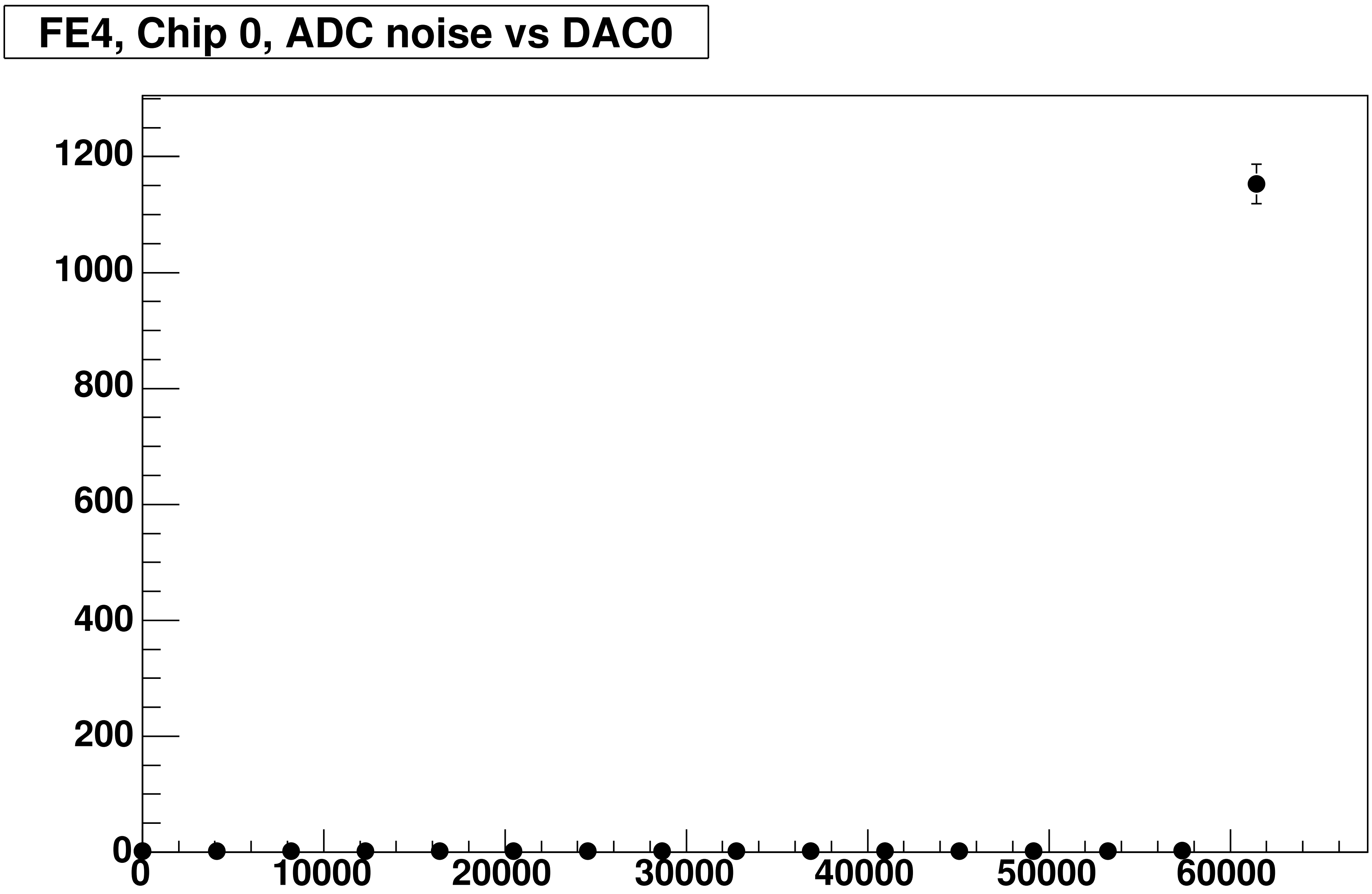

FE3, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

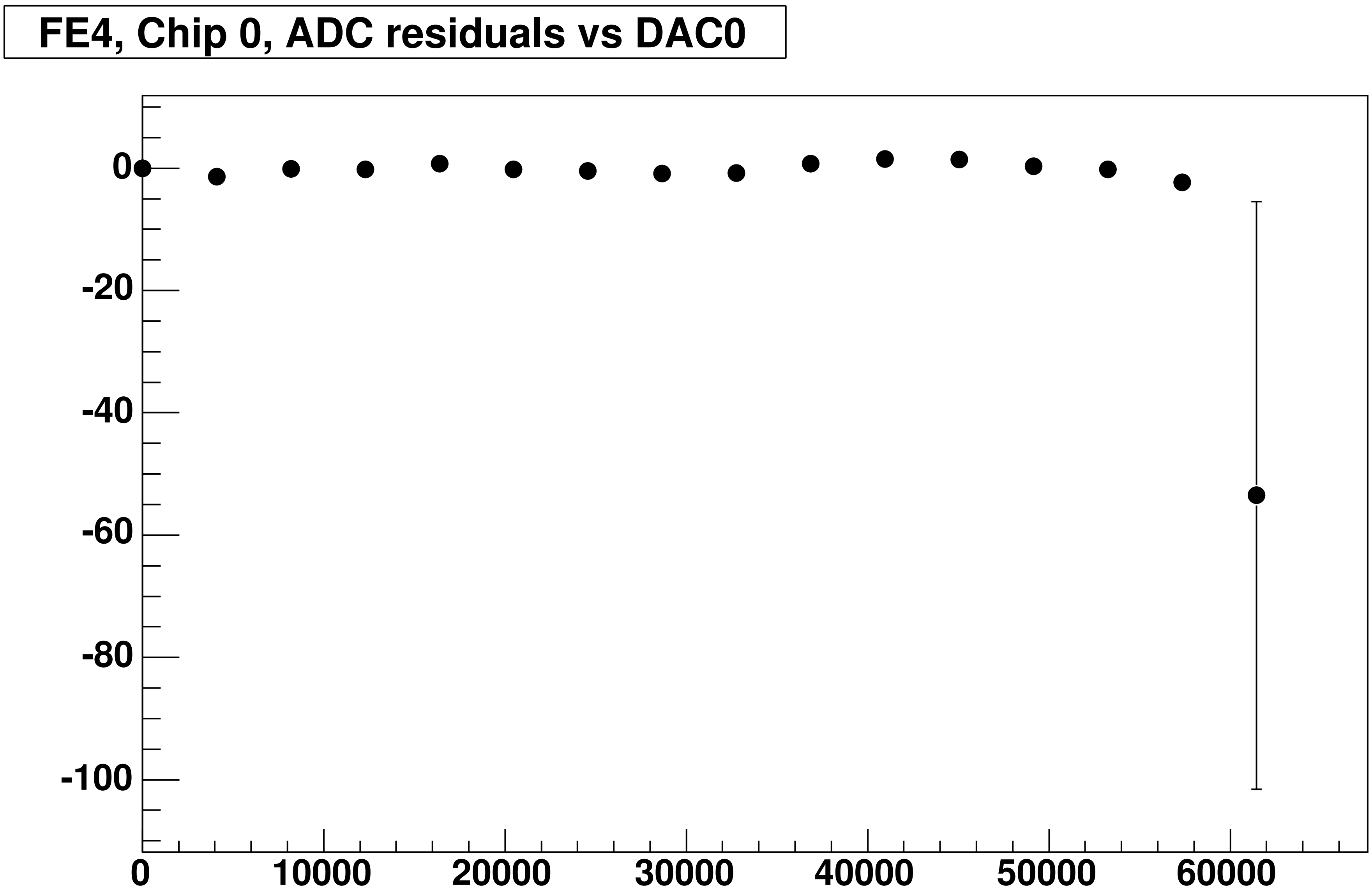

FE3, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1160 / 11
p0 62.08 ± 0.04298
p1 0.4508 ± 1.369e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

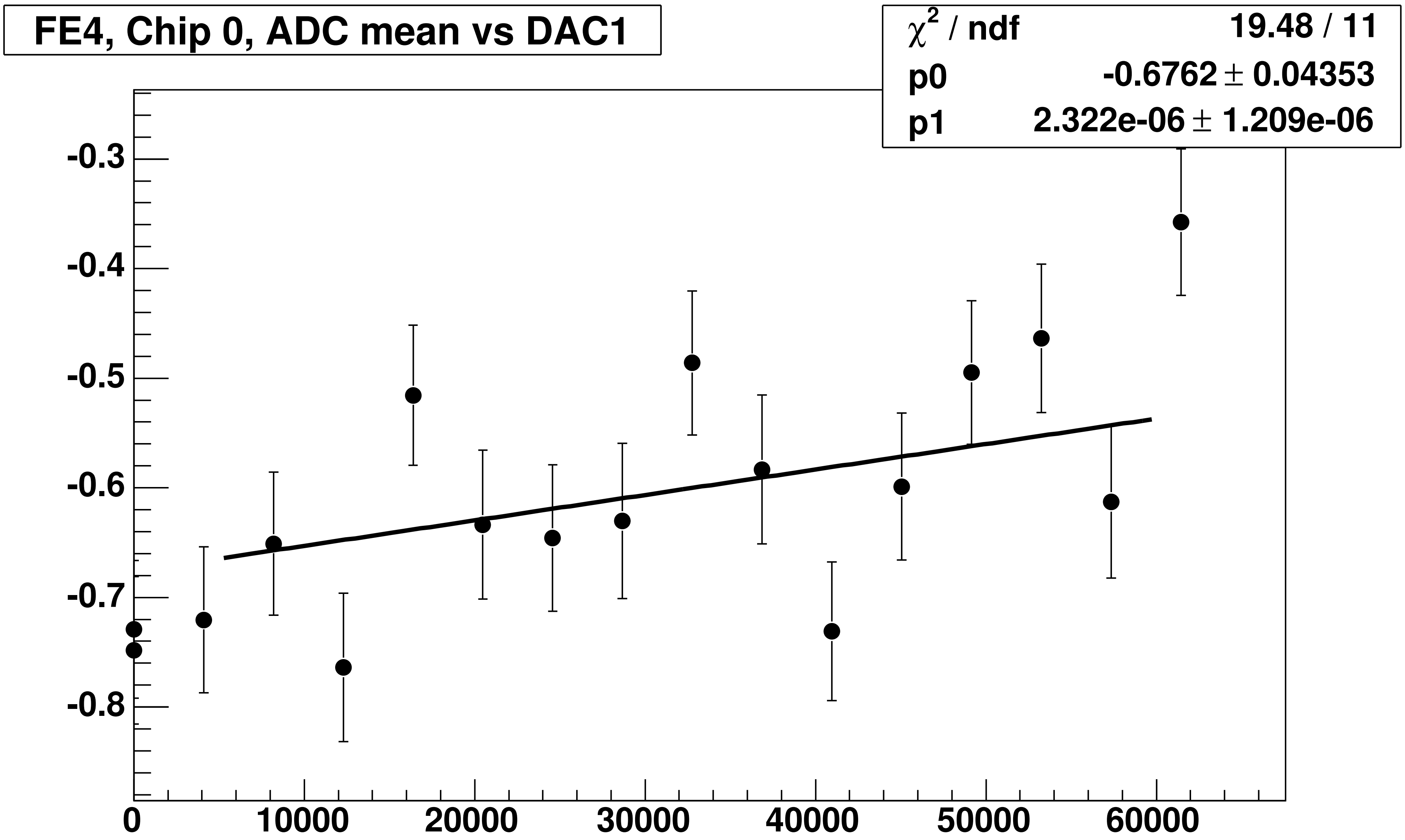

FE3, Chip 11, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

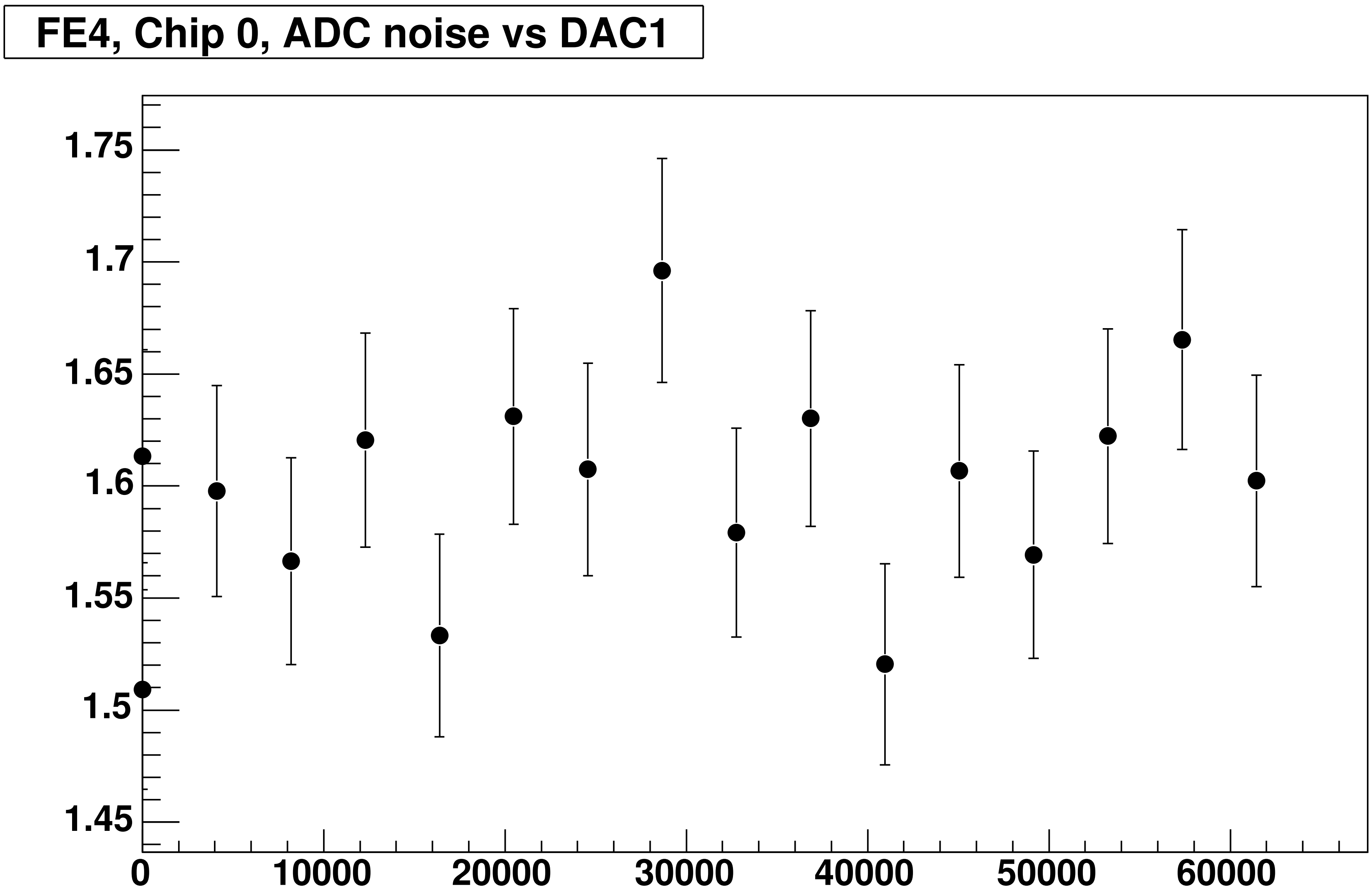

FE4, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1682 / 11
p0 1.815 ± 0.04296
p1 0.4507 ± 1.381e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

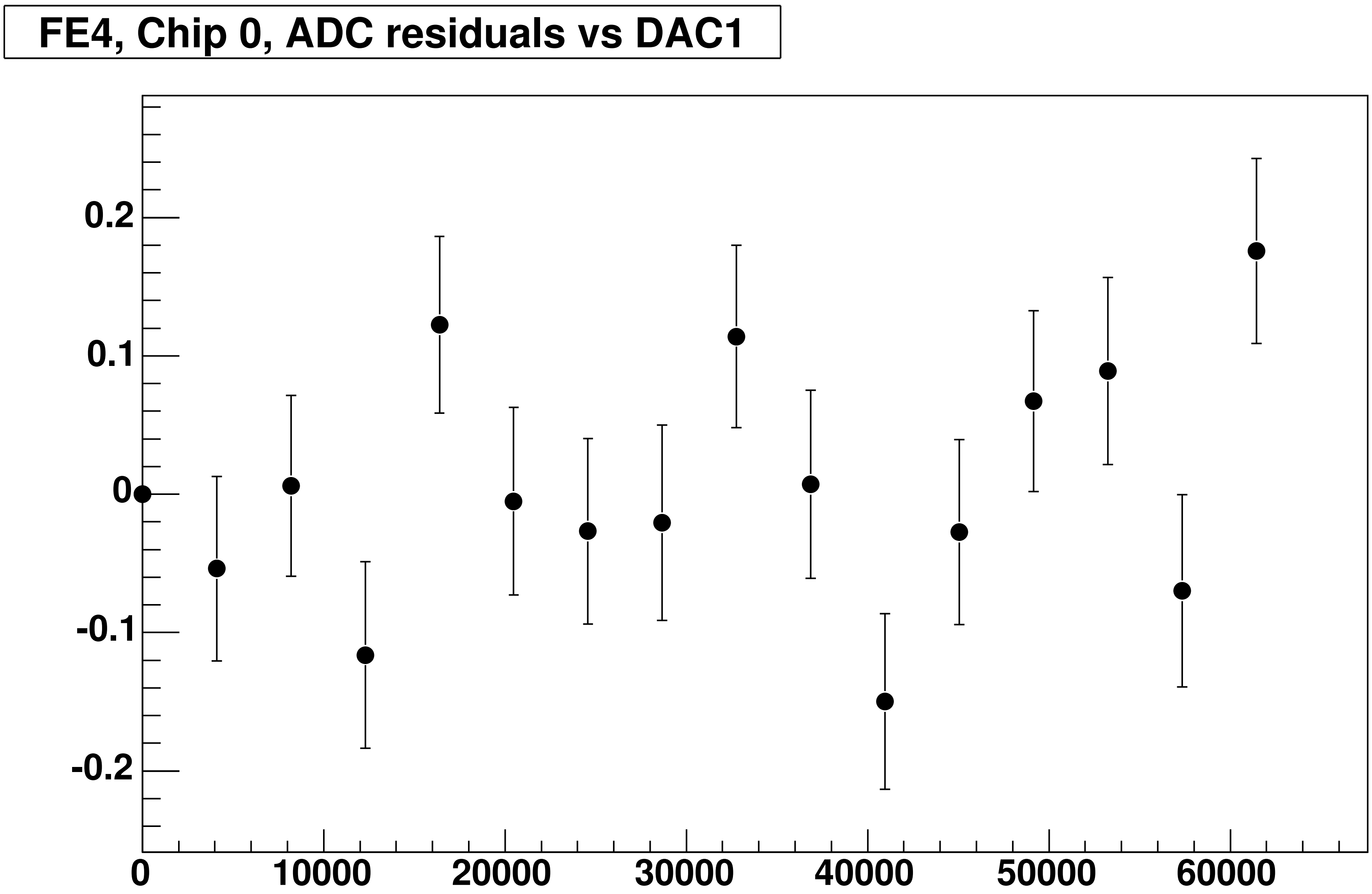

FE4, Chip 0, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

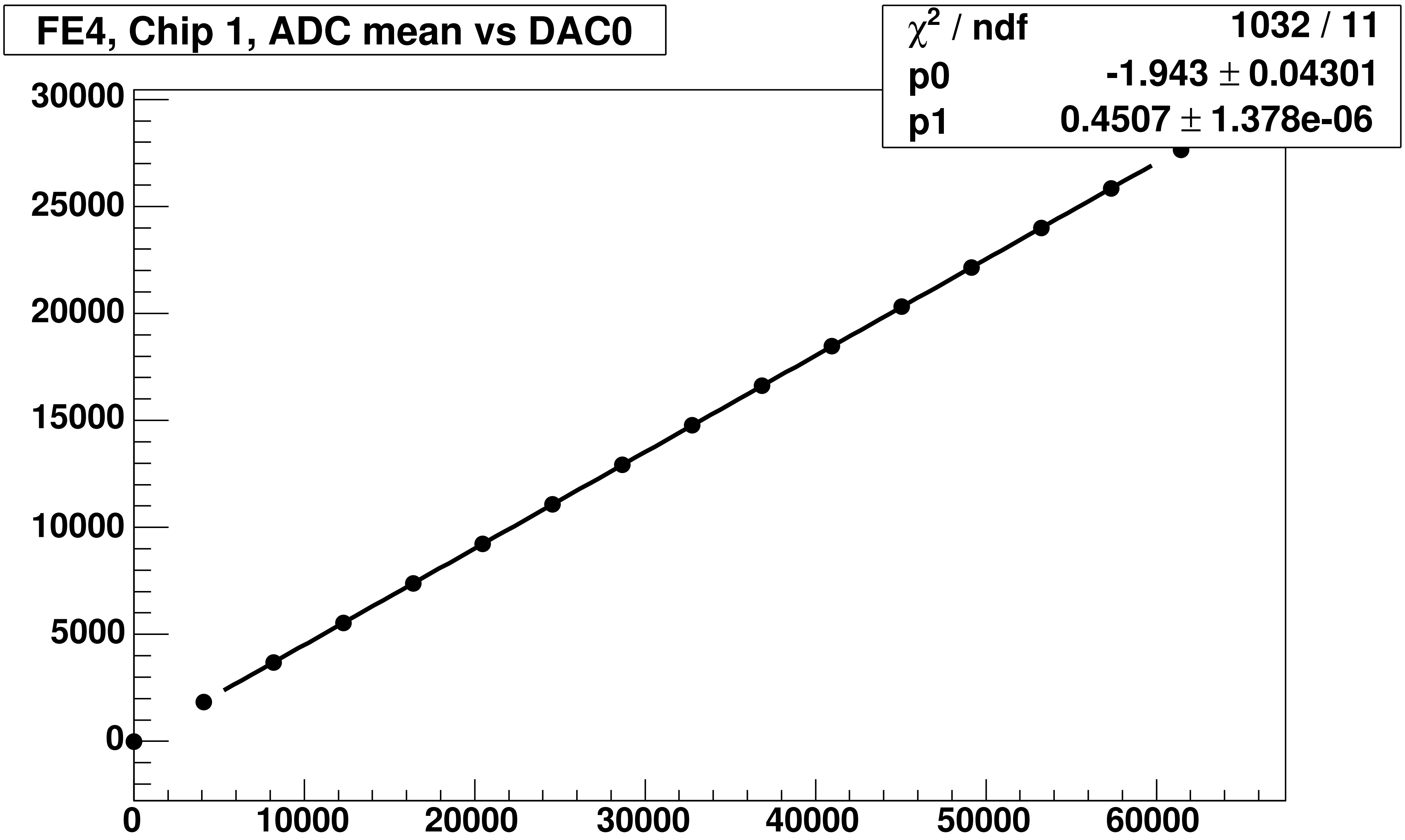

FE4, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

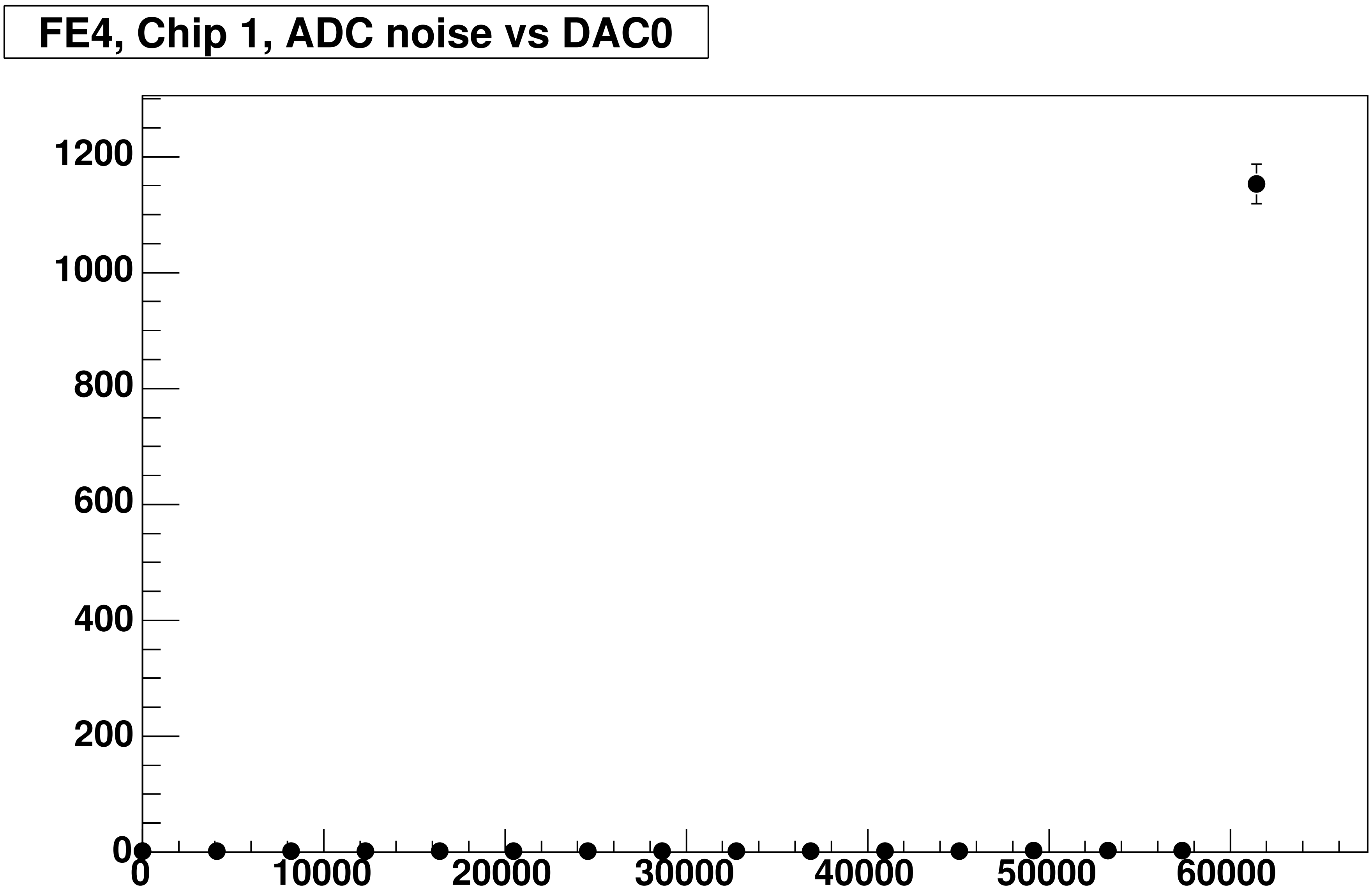


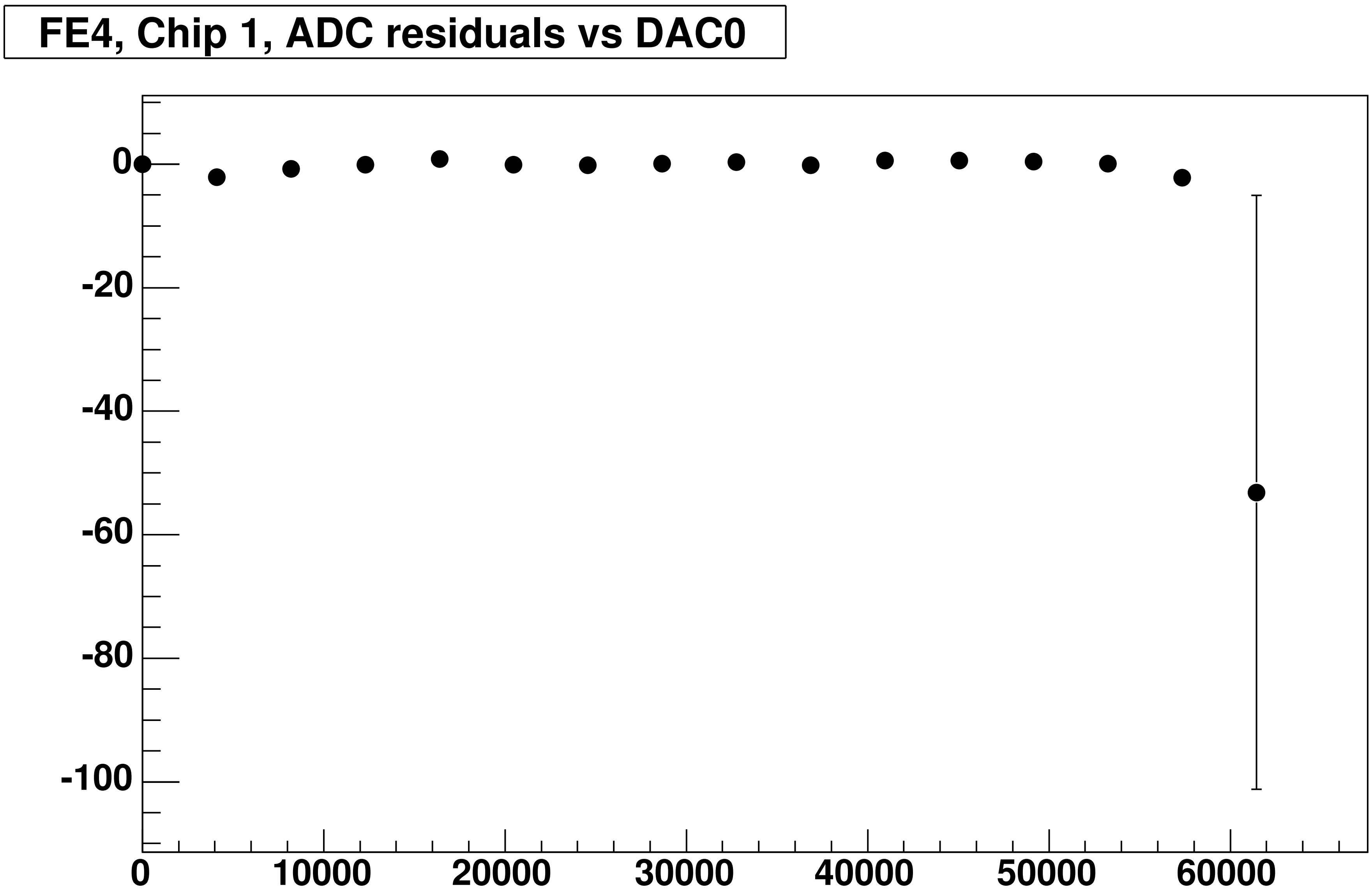
FE4, Chip 0, ADC mean vs DAC1
χ^2 / ndf 19.48 / 11
p0 -0.6762 ± 0.04353
p1 2.322e-06 ± 1.209e-06
-0.3
-0.4
-0.5
-0.6
-0.7
-0.8
0
10000
20000
30000
40000
50000
60000

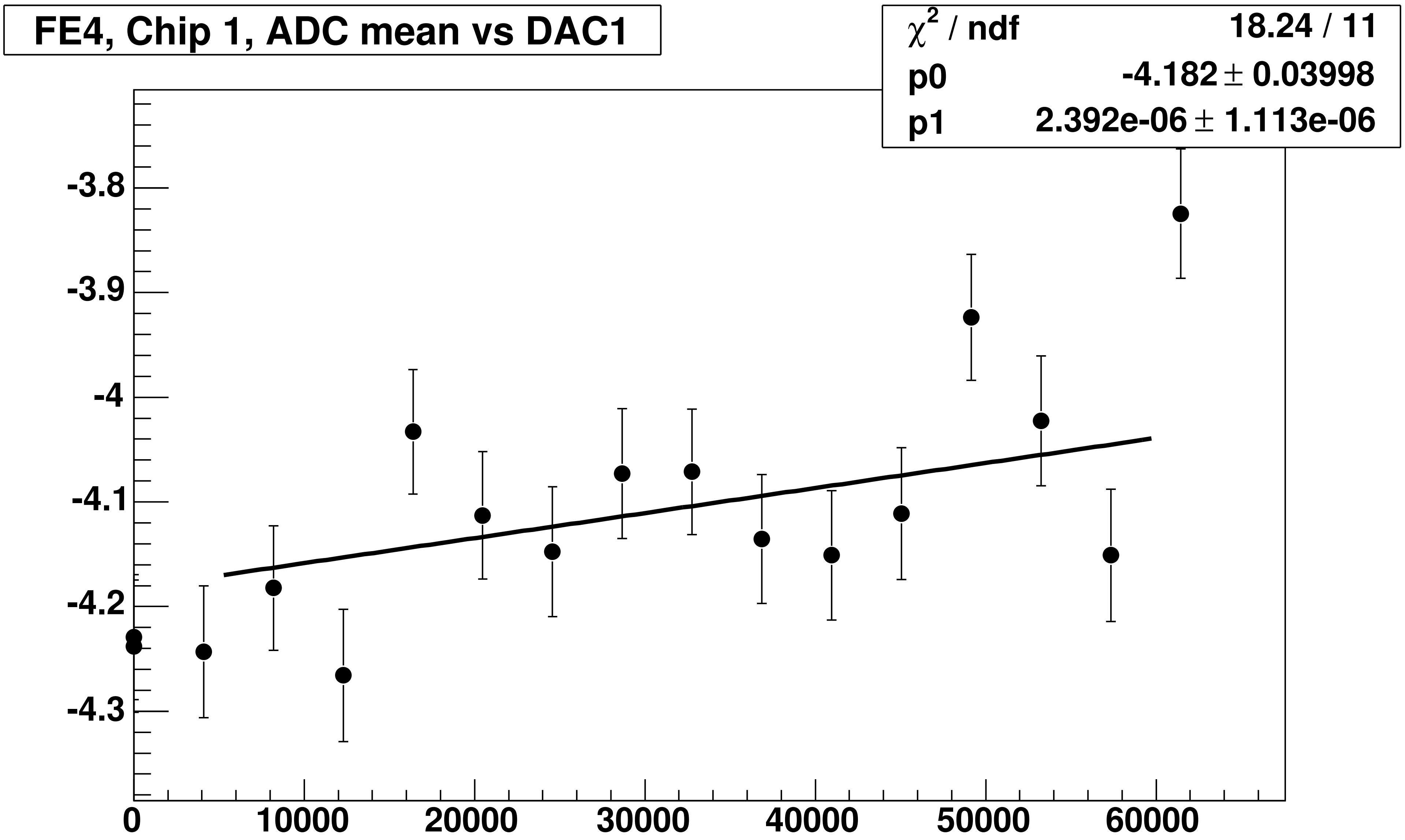

FE4, Chip 0, ADC noise vs DAC1
1.75
1.7
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

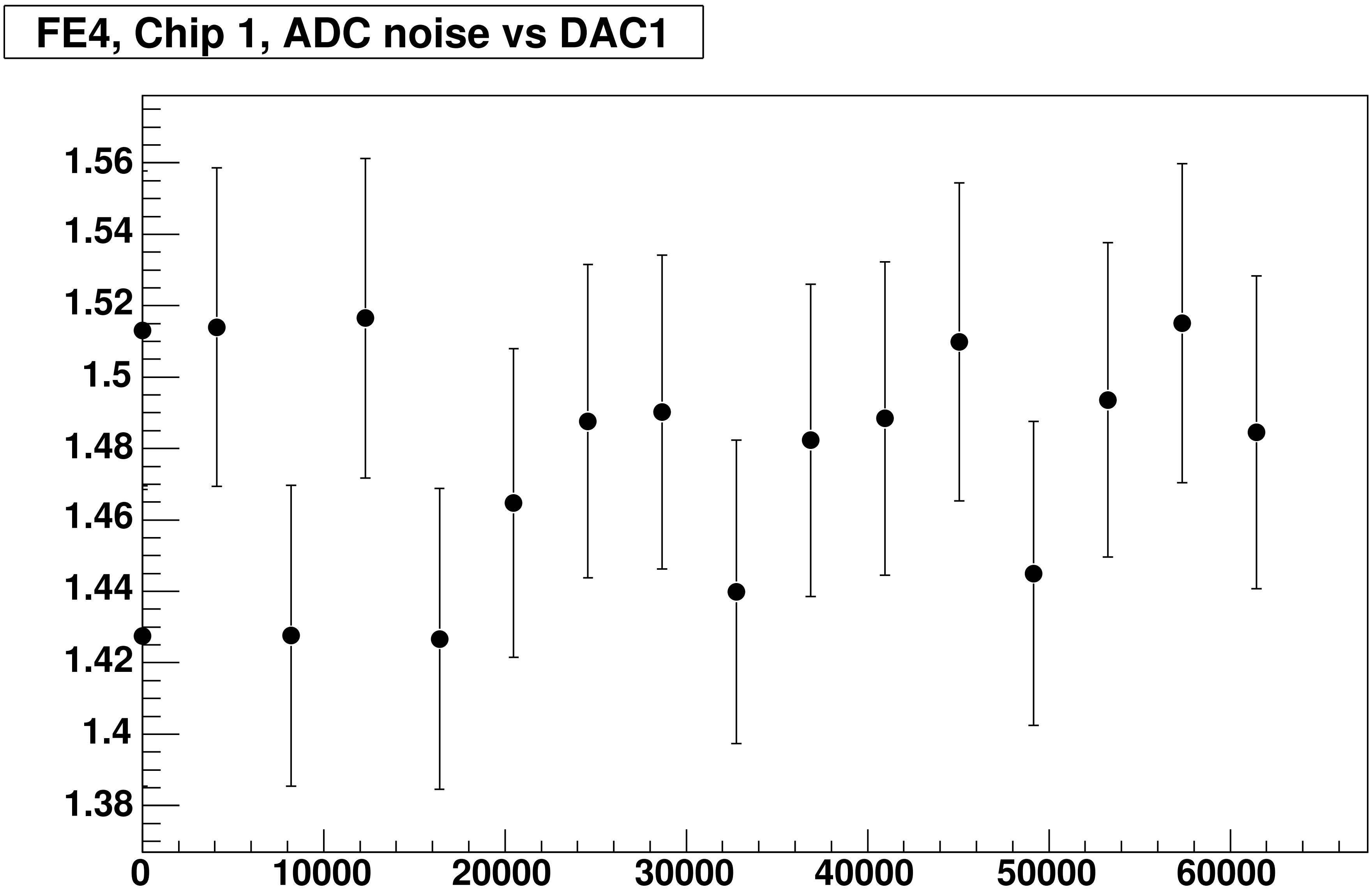

FE4, Chip 0, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

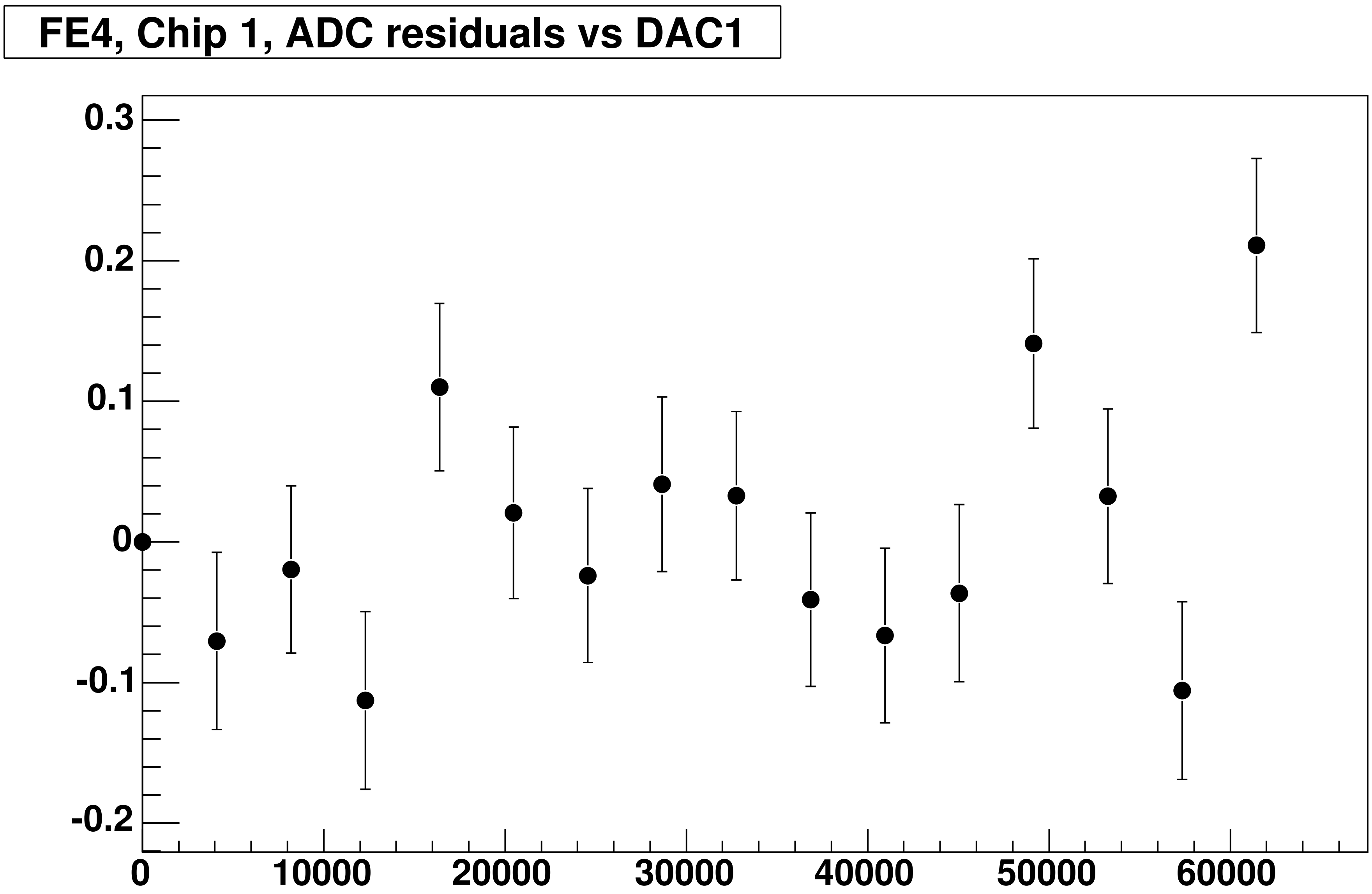

FE4, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1032 / 11
p0 -1.943 ± 0.04301
p1 0.4507 ± 1.378e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

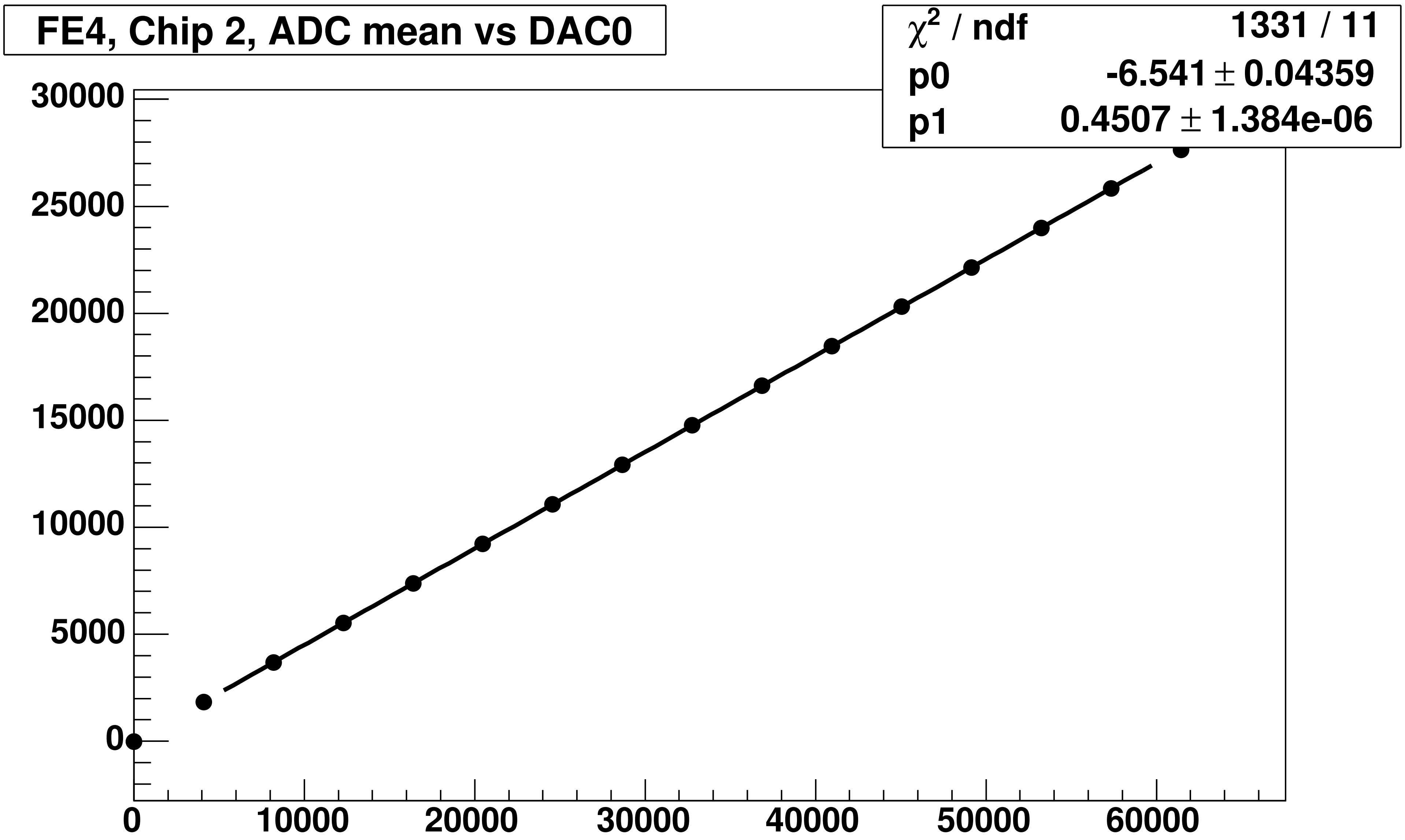

FE4, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

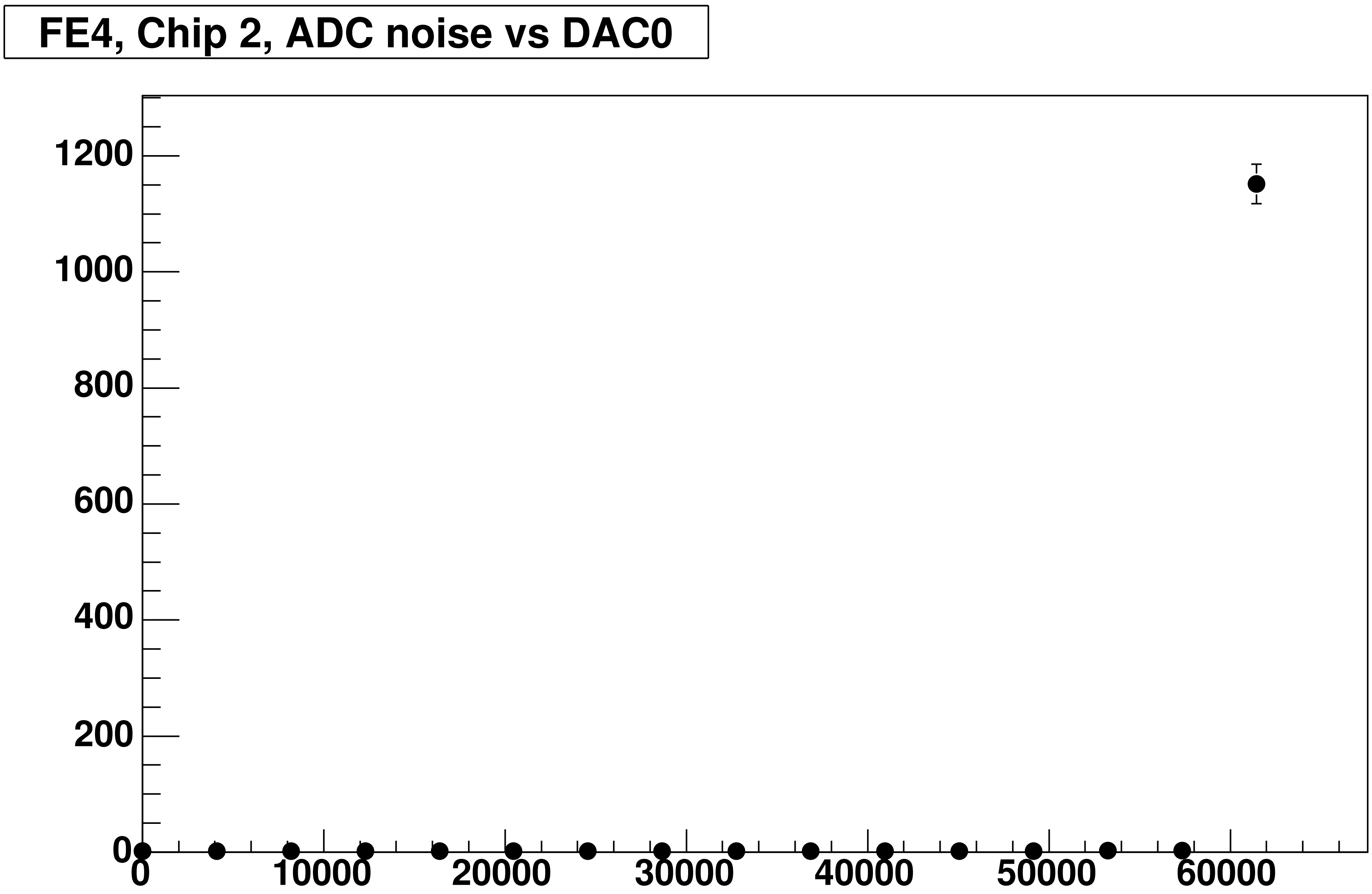

FE4, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

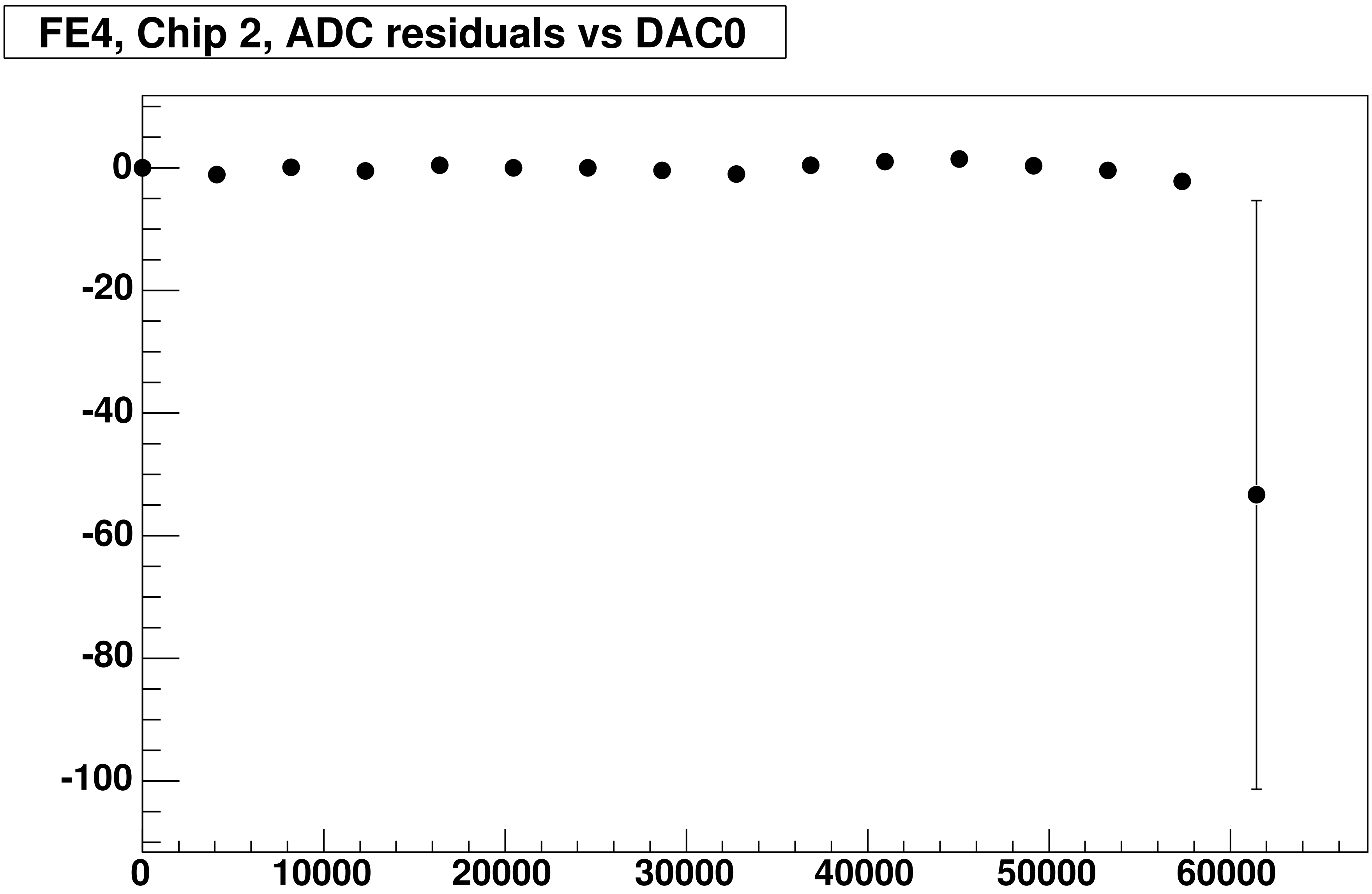

FE4, Chip 1, ADC mean vs DAC1
χ² / ndf 18.24 / 11
p0 -4.182 ± 0.03998
p1 2.392e-06 ± 1.113e-06
-3.8
-3.9
-4
-4.1
-4.2
-4.3
0
10000
20000
30000
40000
50000
60000

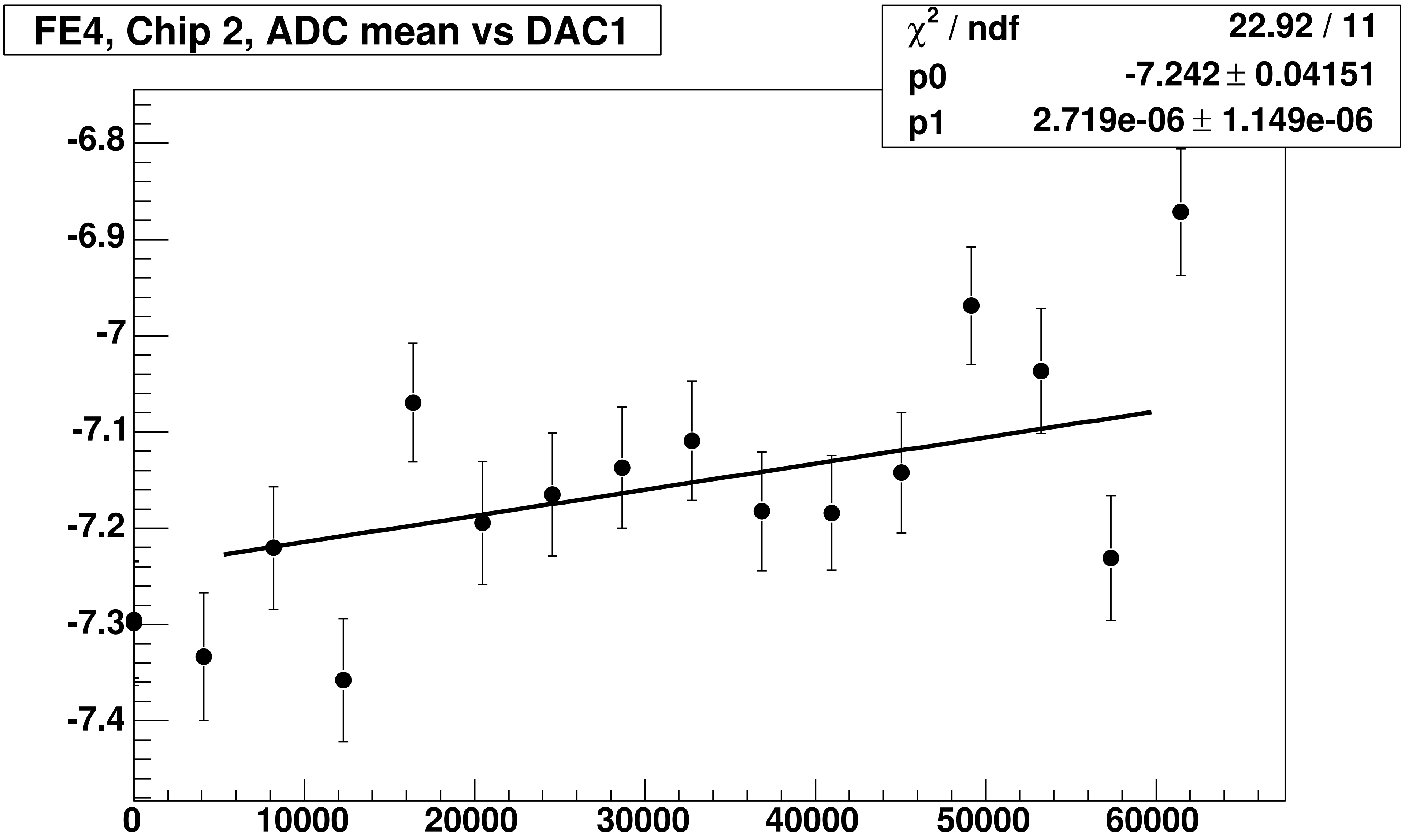

FE4, Chip 1, ADC noise vs DAC1
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
0
10000
20000
30000
40000
50000
60000

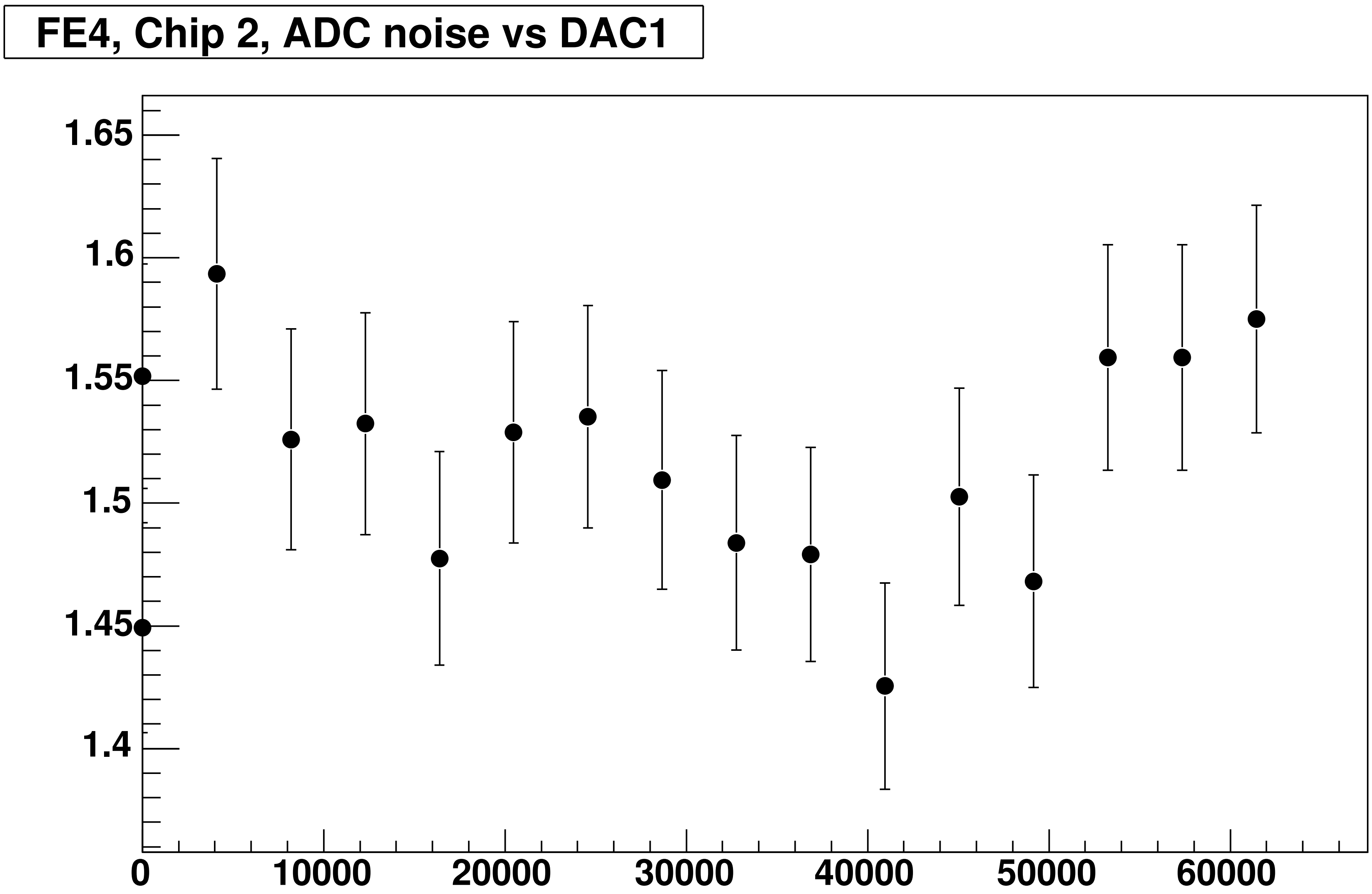

FE4, Chip 1, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

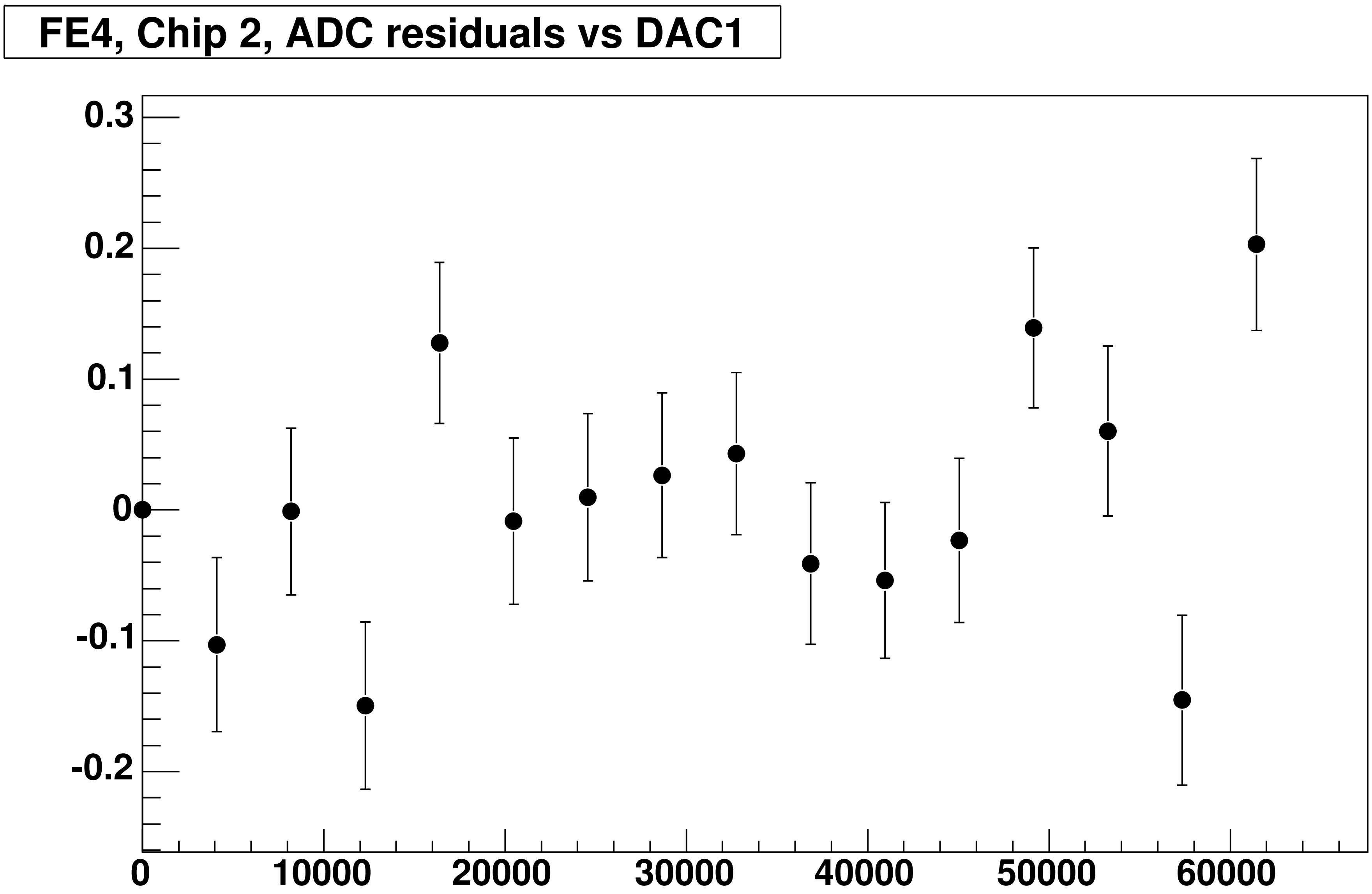

FE4, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1331 / 11
p0 -6.541 ± 0.04359
p1 0.4507 ± 1.384e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

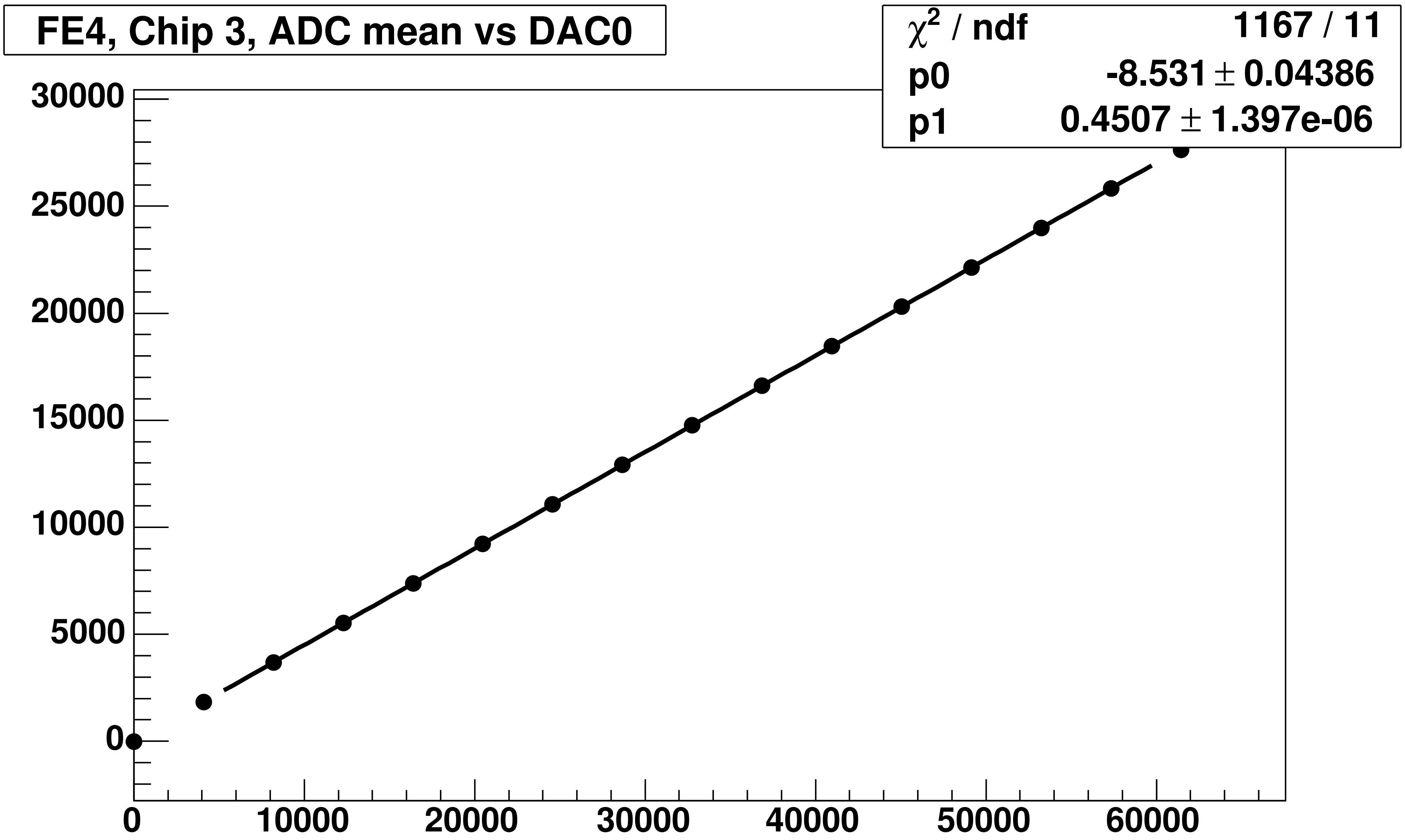

FE4, Chip 2, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000


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

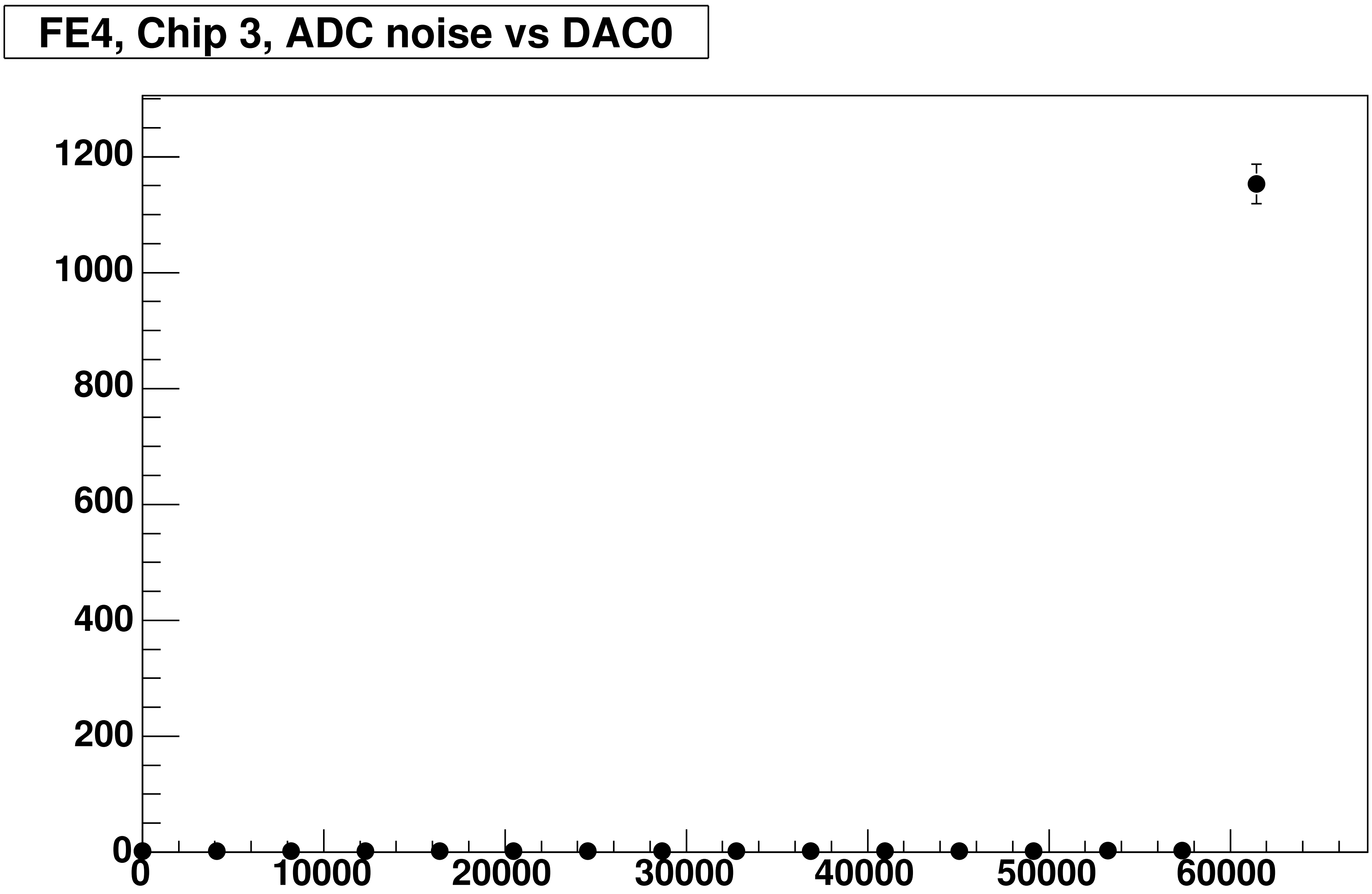

FE4, Chip 2, ADC mean vs DAC1
χ^2 / ndf 22.92 / 11
p0 -7.242 ± 0.04151
p1 2.719e-06 ± 1.149e-06
-6.8
-6.9
-7
-7.1
-7.2
-7.3
-7.4
0
10000
20000
30000
40000
50000
60000

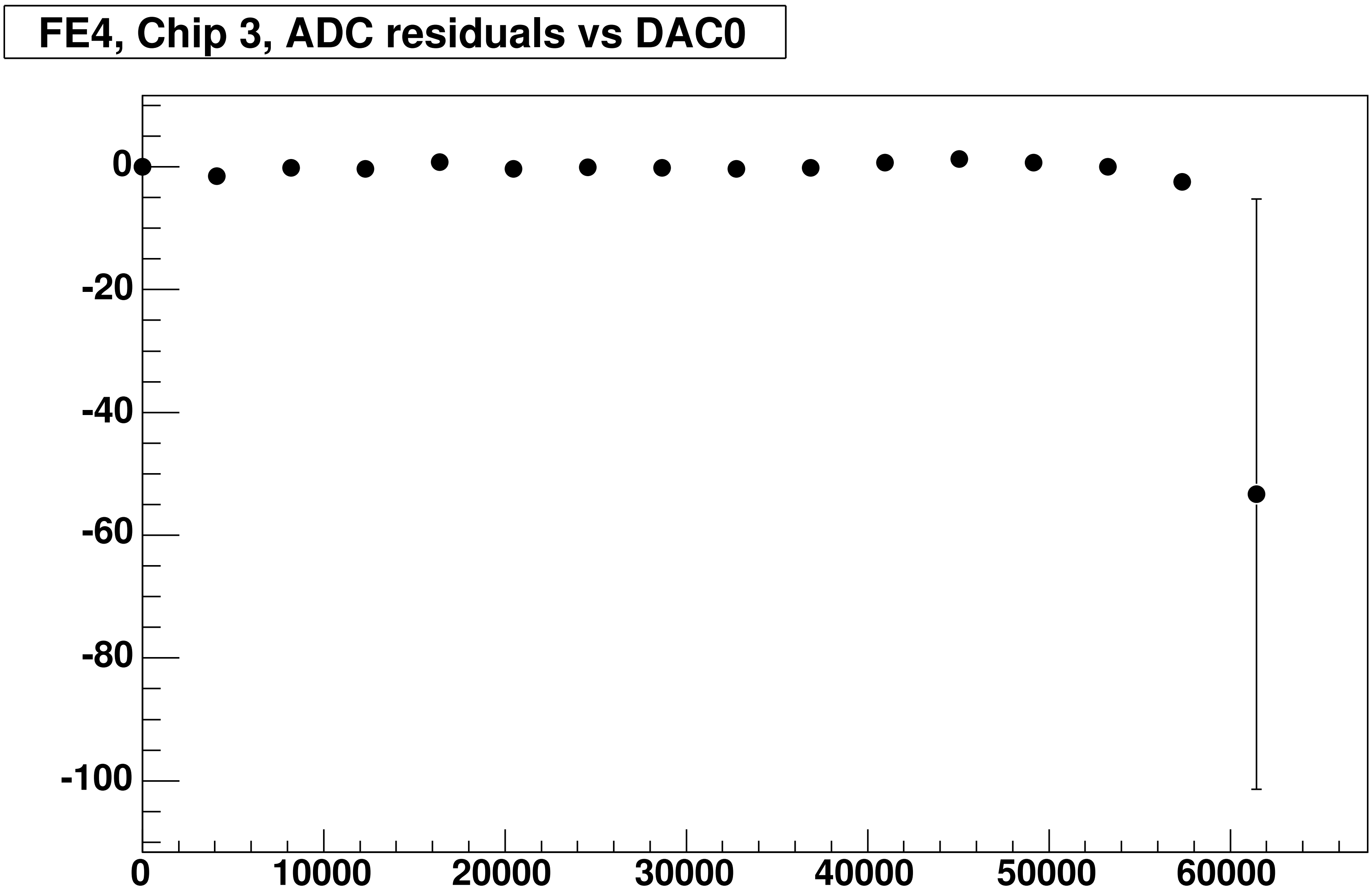

FE4, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

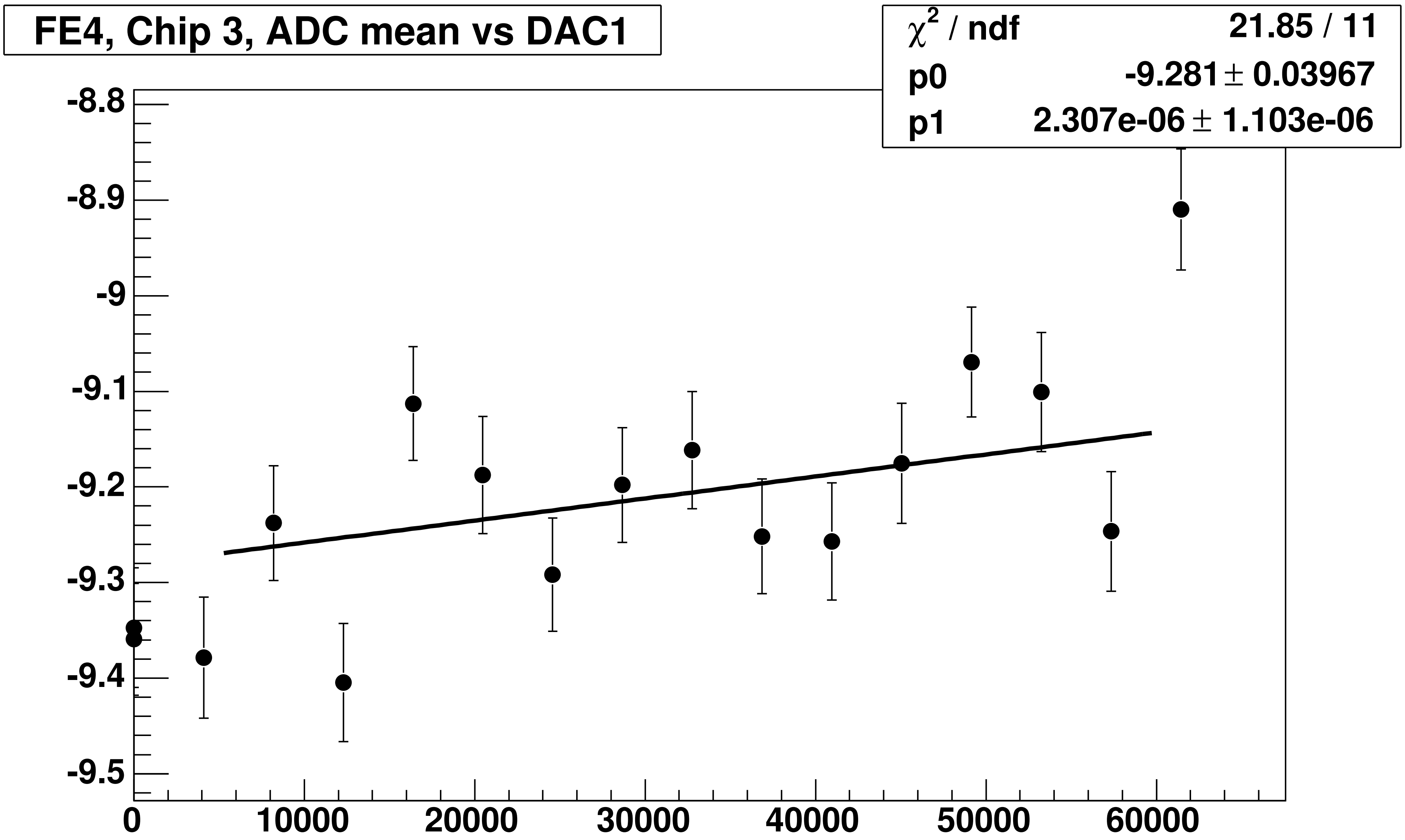

FE4, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



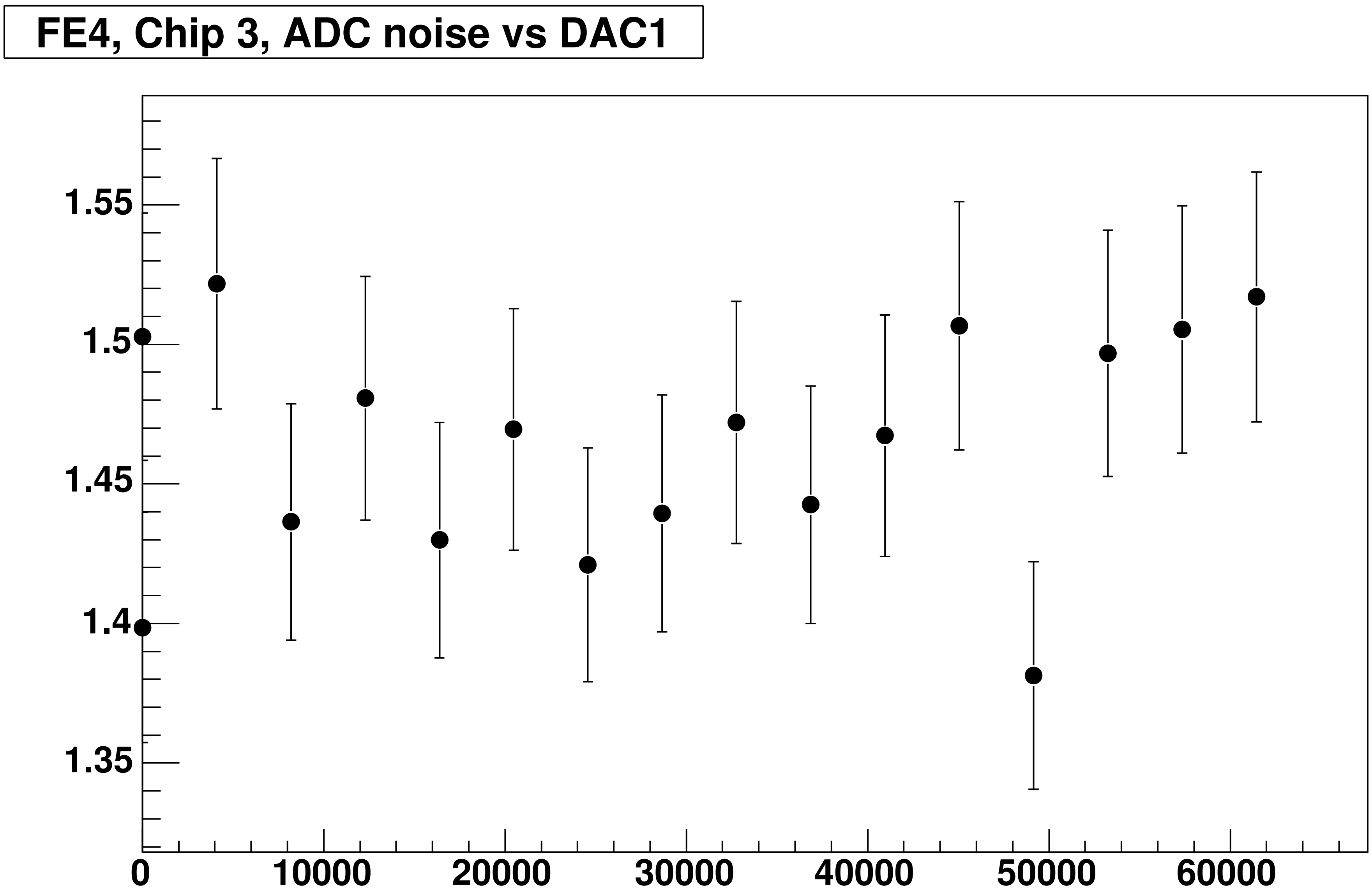
FE4, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1167 / 11
p0 -8.531 ± 0.04386
p1 0.4507 ± 1.397e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

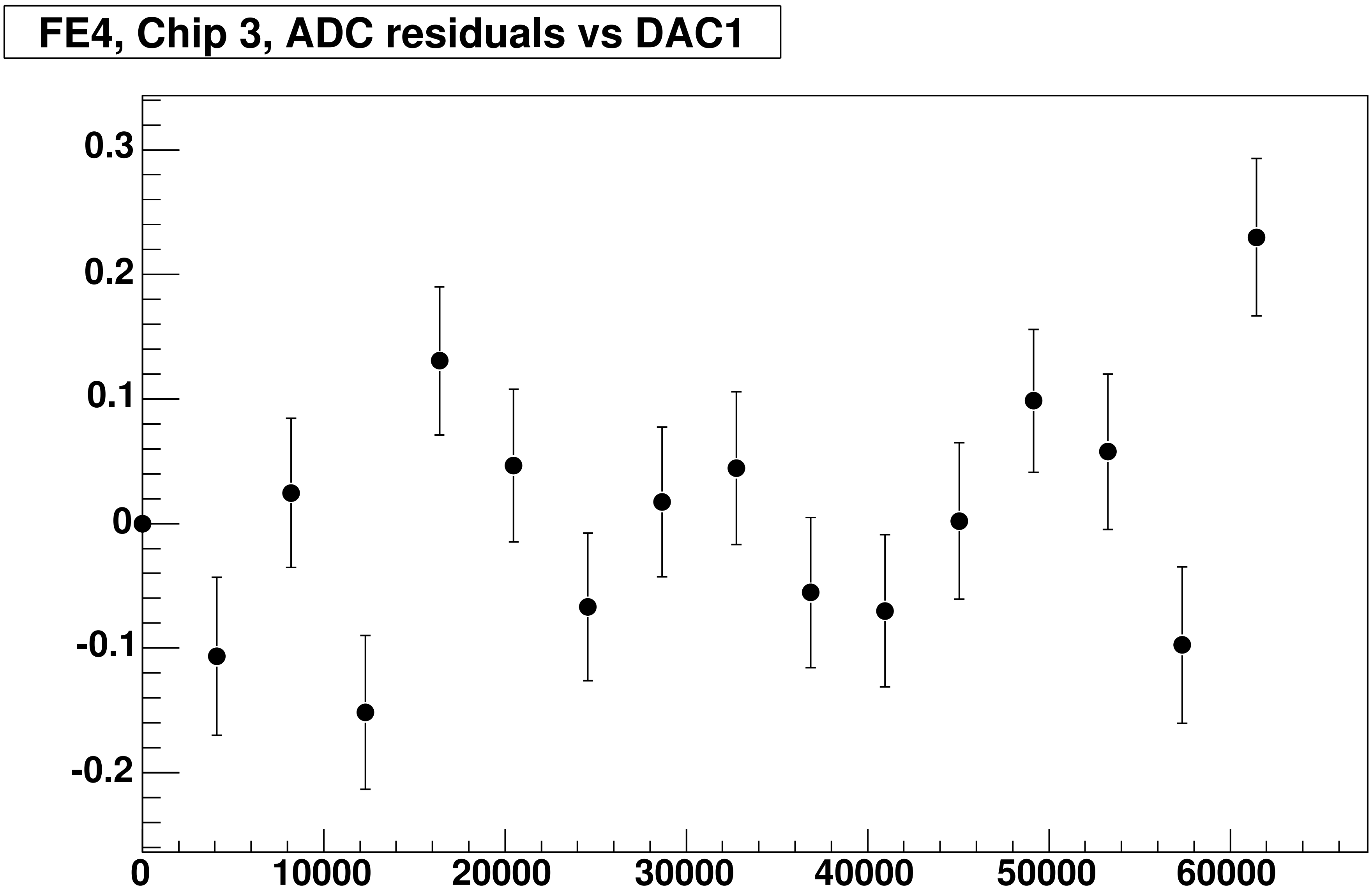

FE4, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

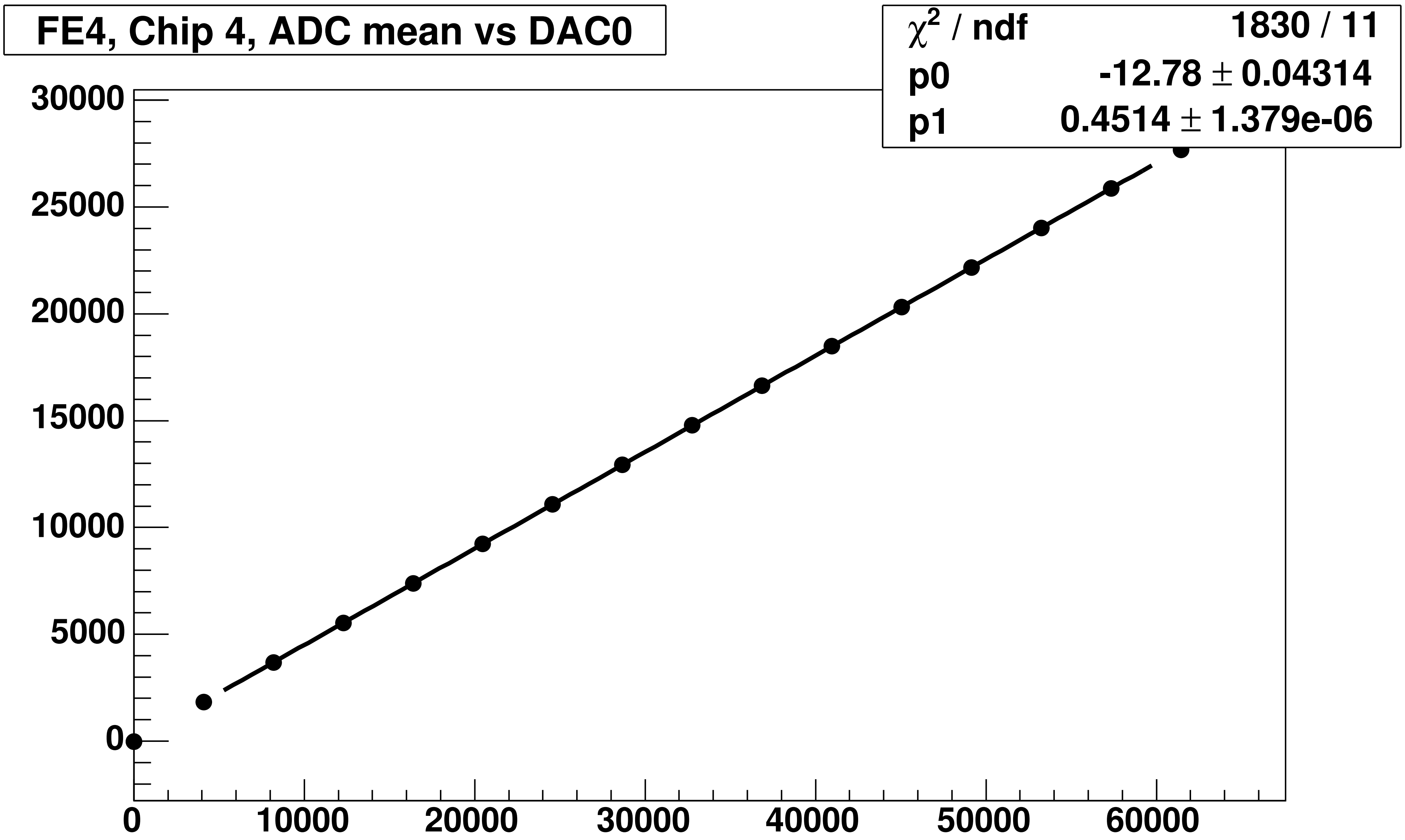

FE4, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

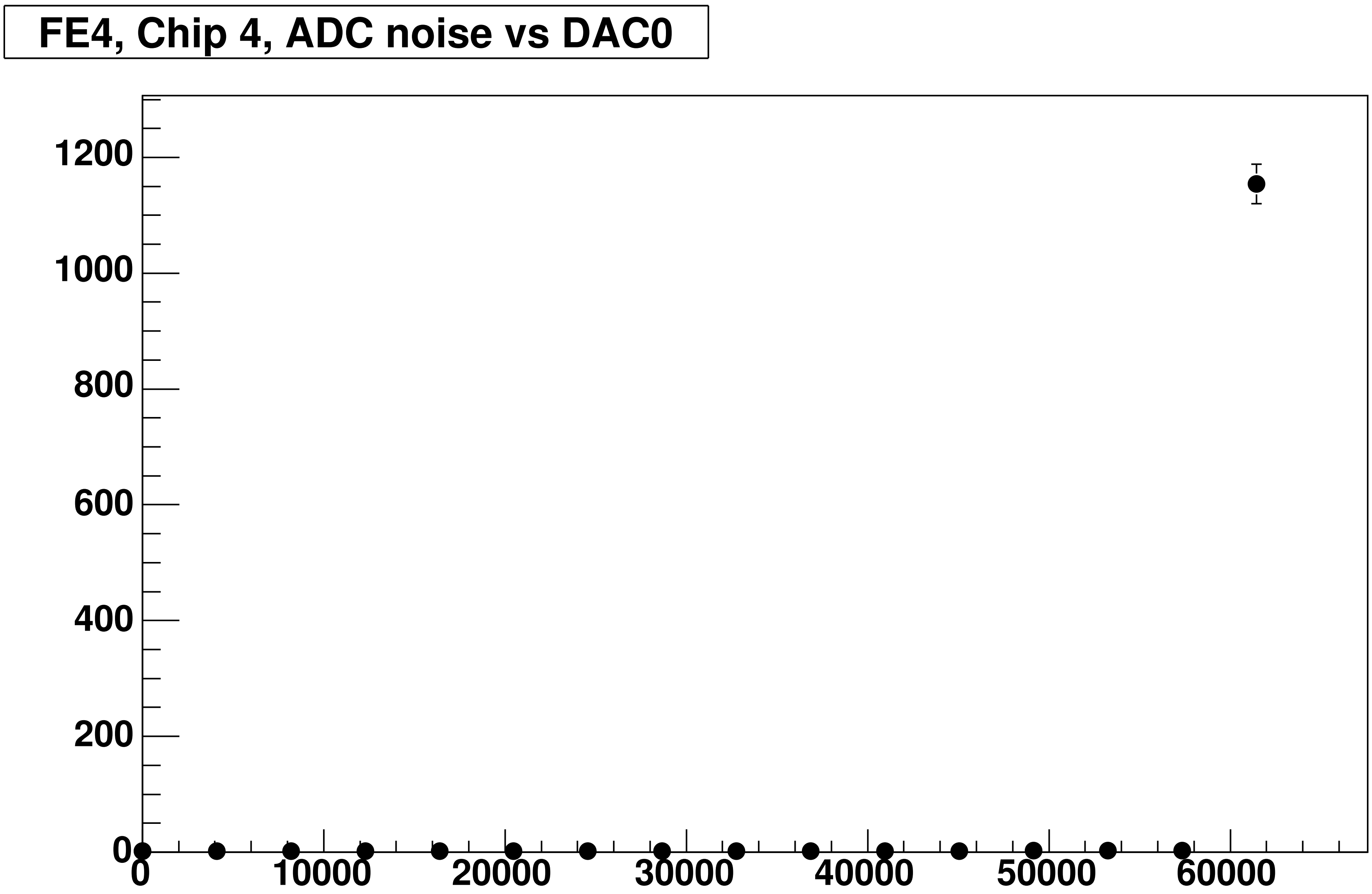


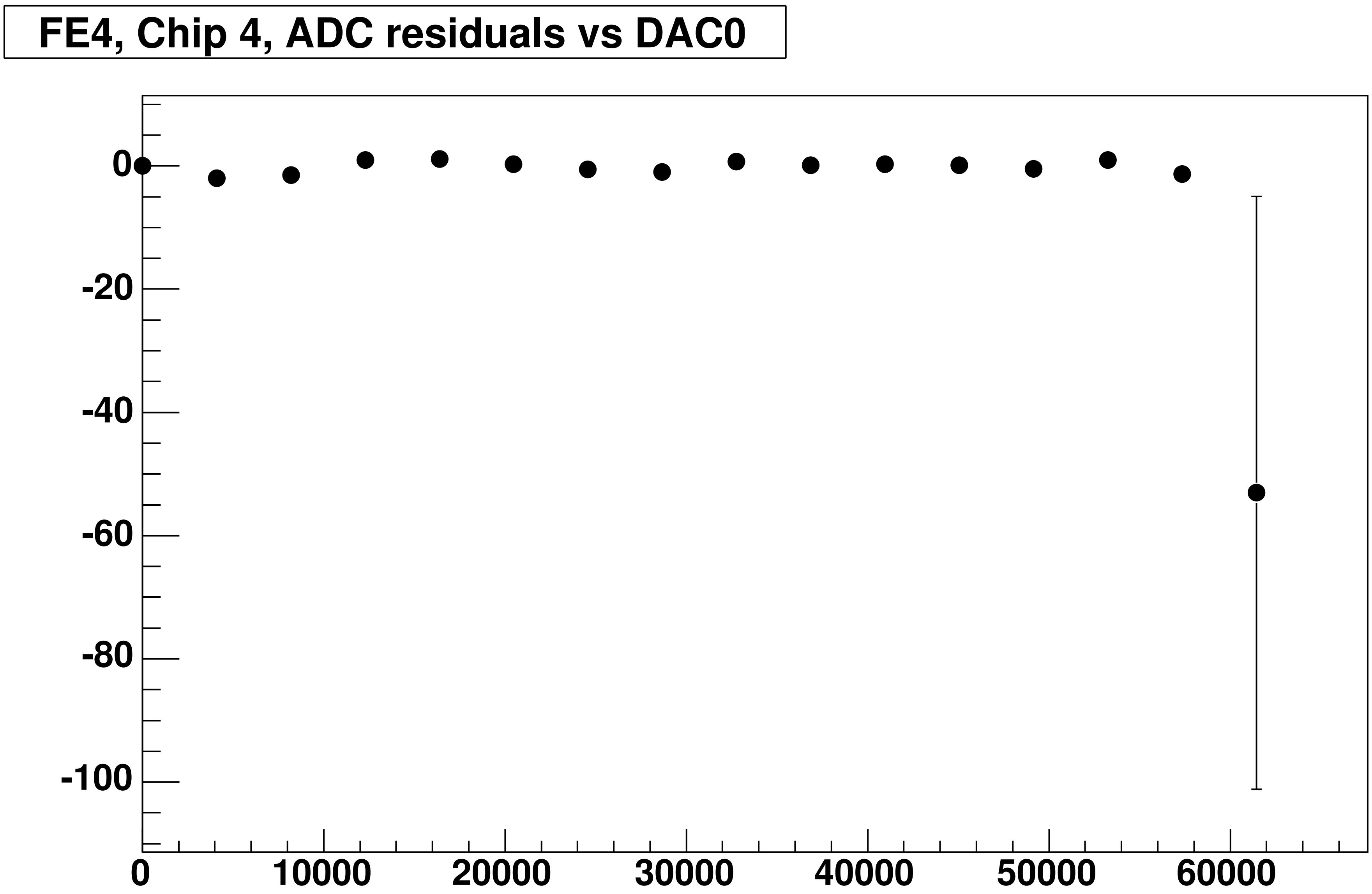
FE4, Chip 3, ADC mean vs DAC1
χ^2 / ndf 21.85 / 11
p0 -9.281 ± 0.03967
p1 2.307e-06 ± 1.103e-06
-8.8
-8.9
-9
-9.1
-9.2
-9.3
-9.4
-9.5
0
10000
20000
30000
40000
50000
60000

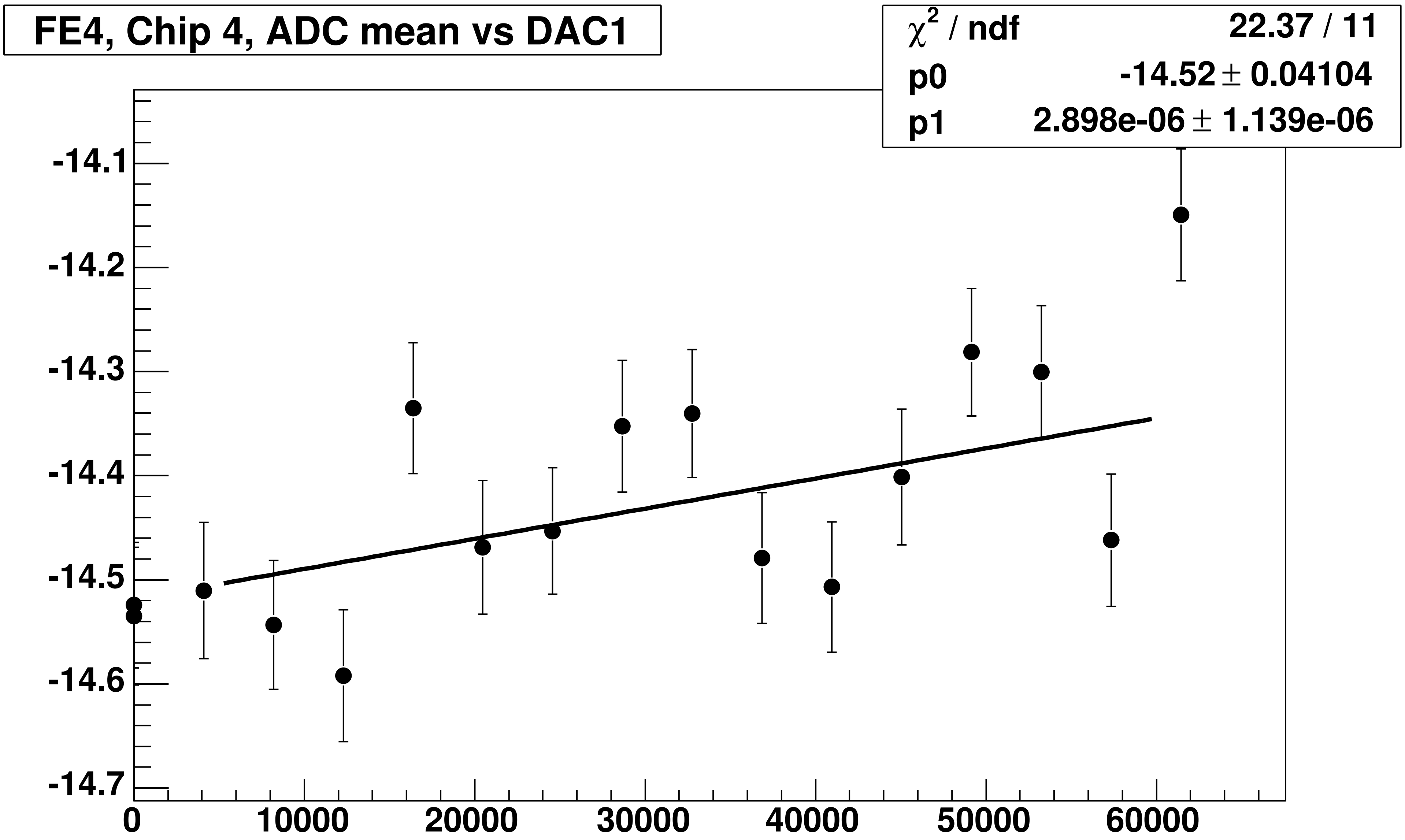

FE4, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

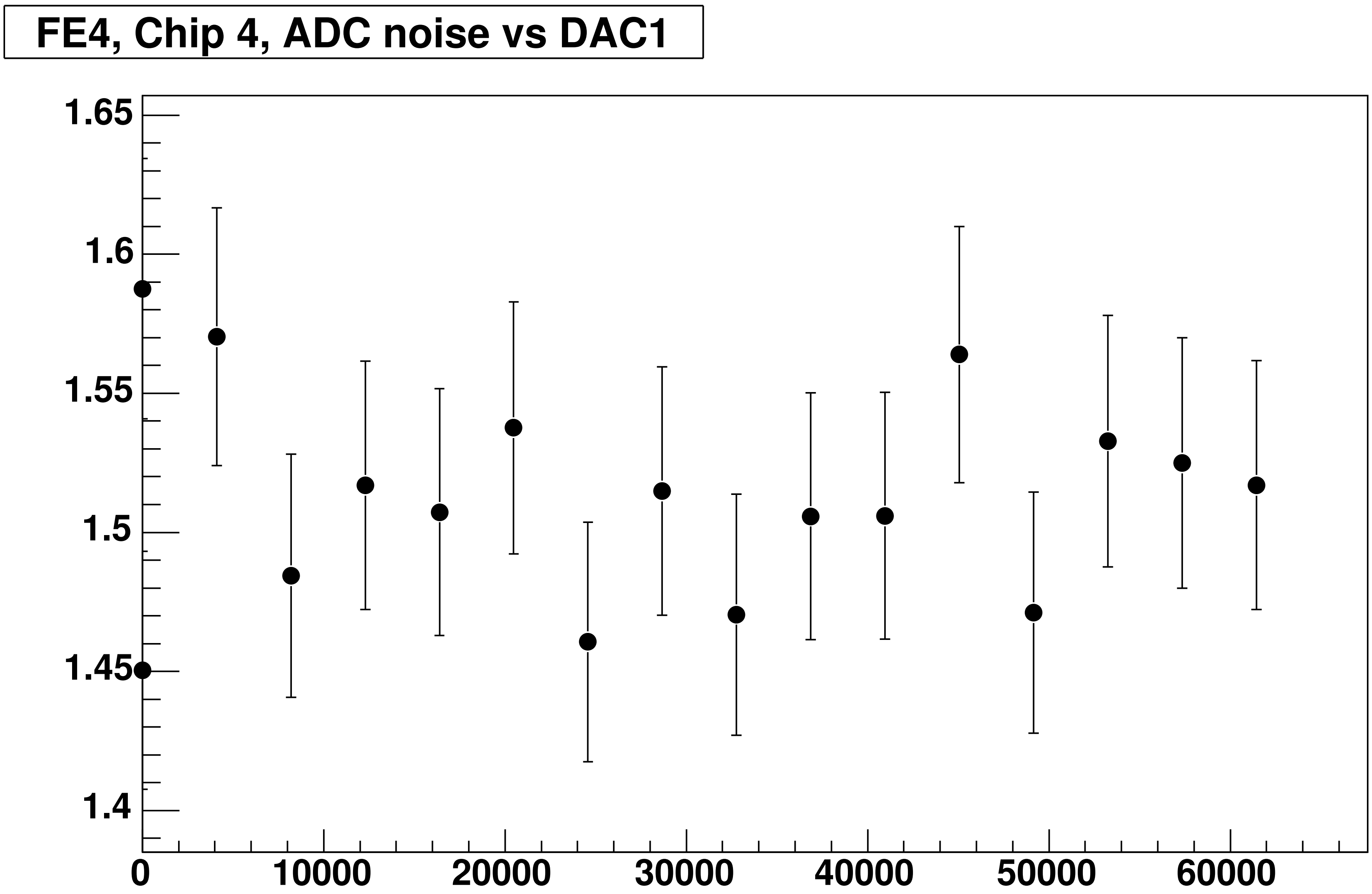

FE4, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

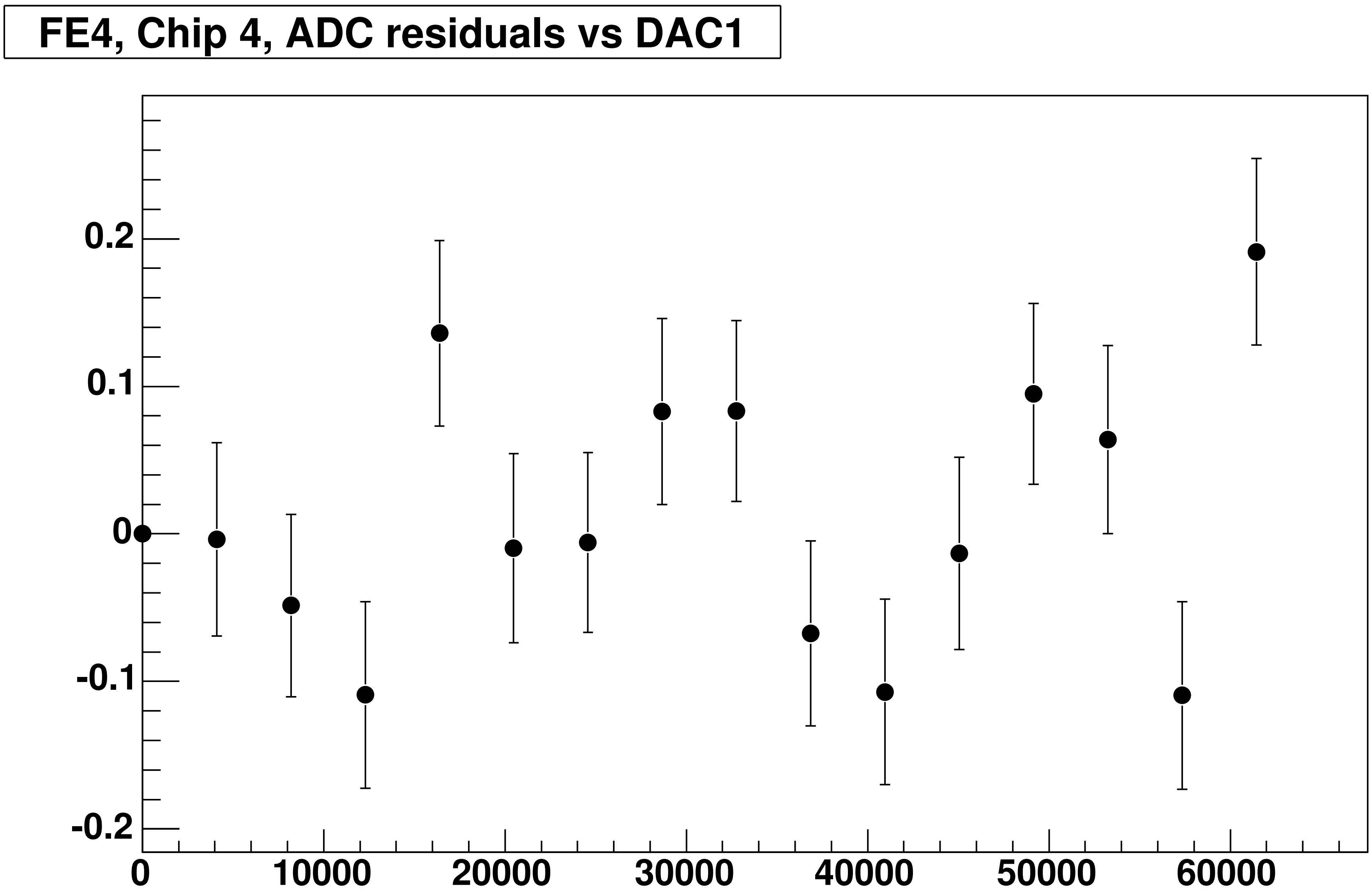

FE4, Chip 4, ADC mean vs DAC0
χ2 / ndf 1830 / 11
p0 -12.78 ± 0.04314
p1 0.4514 ± 1.379e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

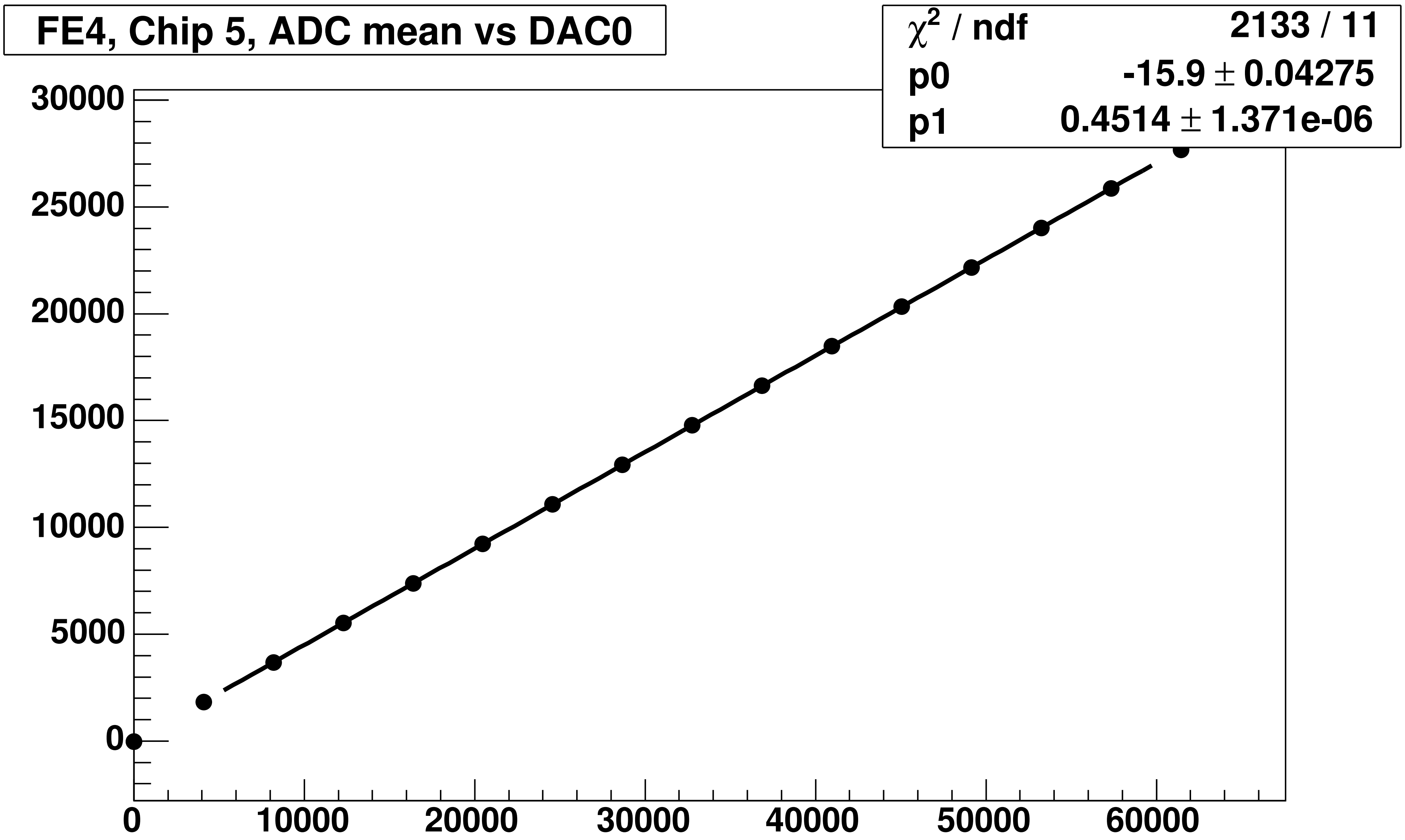

FE4, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

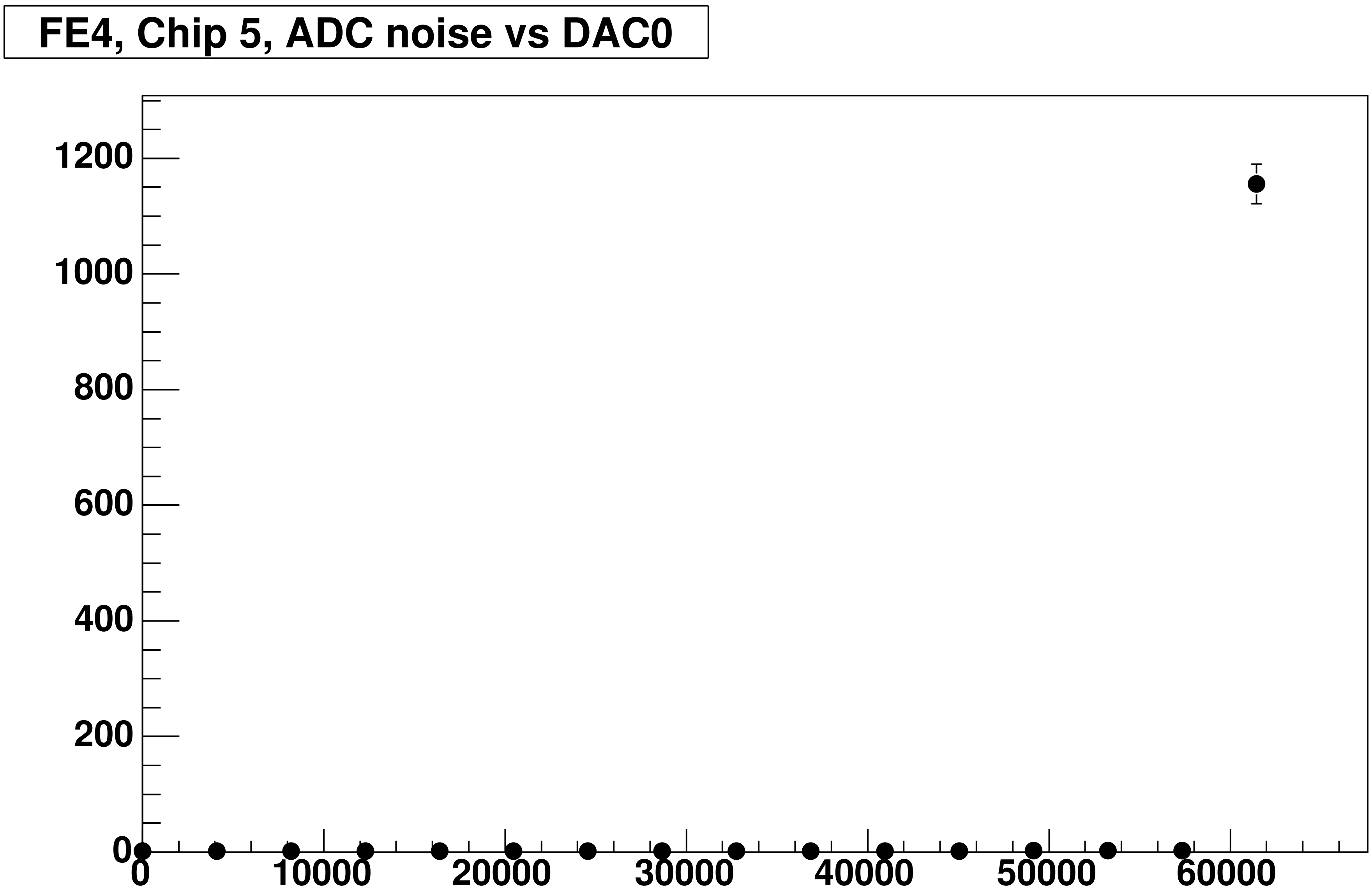

FE4, Chip 4, ADC mean vs DAC1
χ^2 / ndf 22.37 / 11
p0 -14.52 ± 0.04104
p1 2.898e-06 ± 1.139e-06
-14.1
-14.2
-14.3
-14.4
-14.5
-14.6
-14.7
0
10000
20000
30000
40000
50000
60000


FE4, Chip 4, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

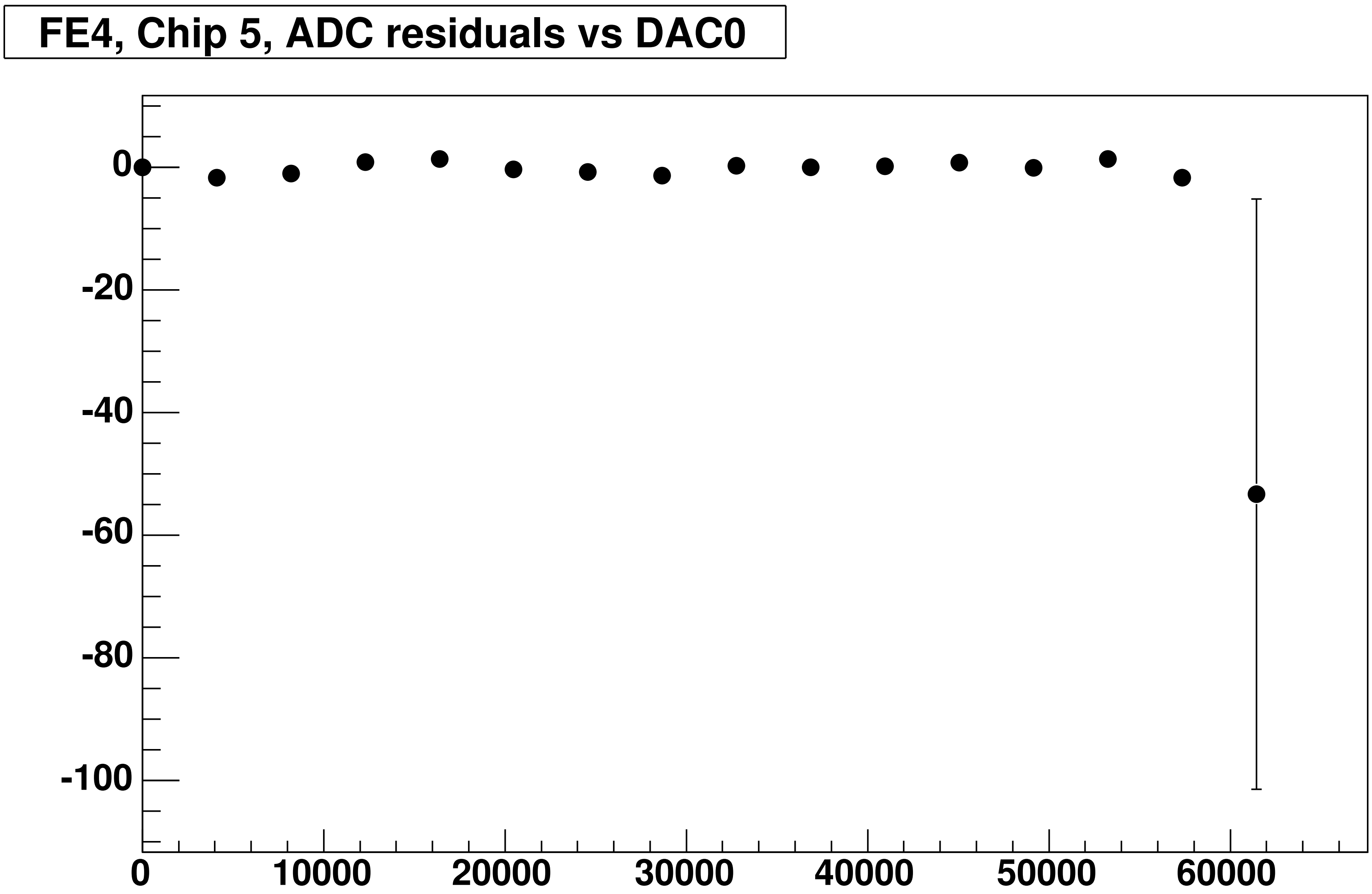

FE4, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

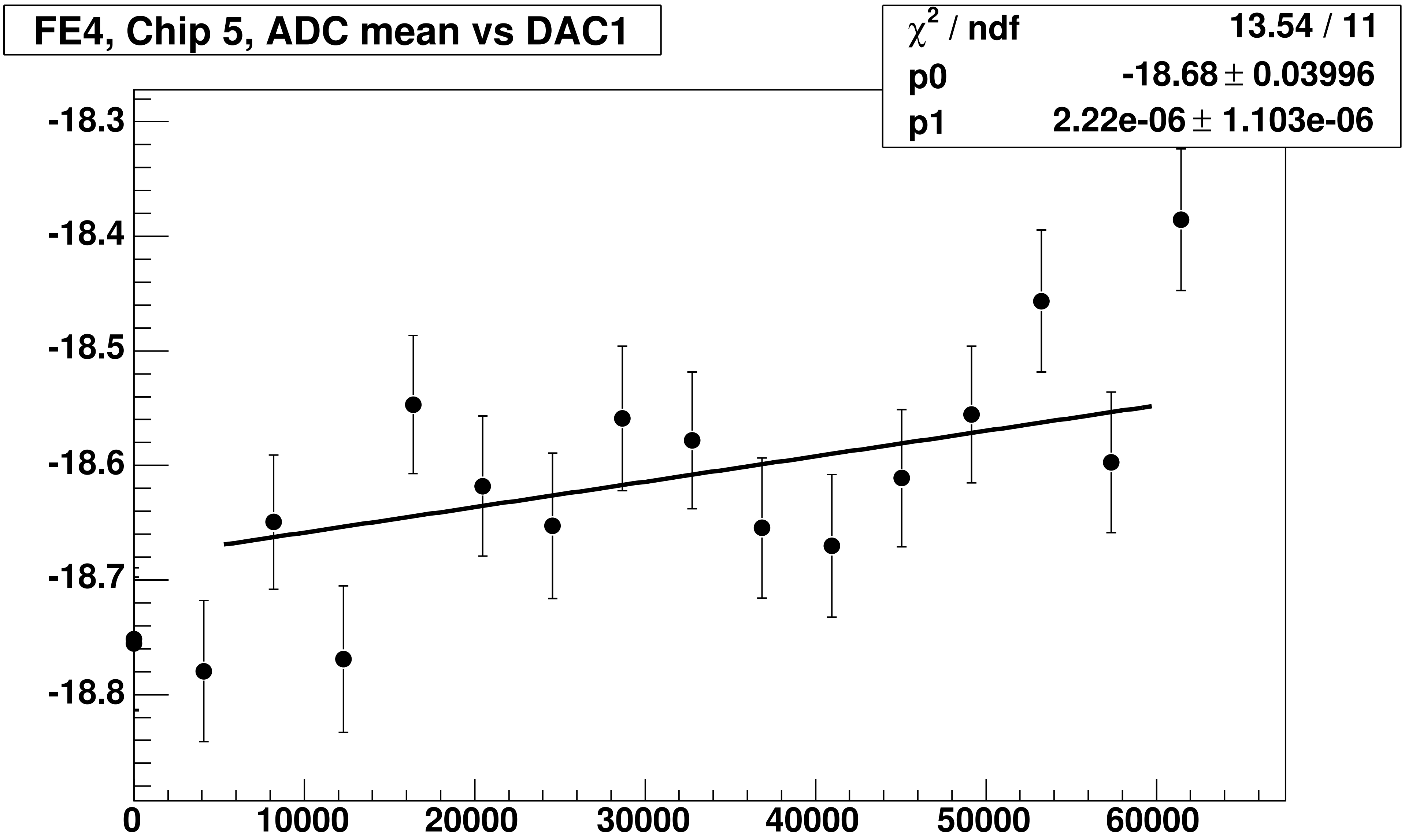


FE4, Chip 5, ADC mean vs DAC0
χ^2 / ndf 2133 / 11
p0 -15.9 ± 0.04275
p1 0.4514 ± 1.371e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

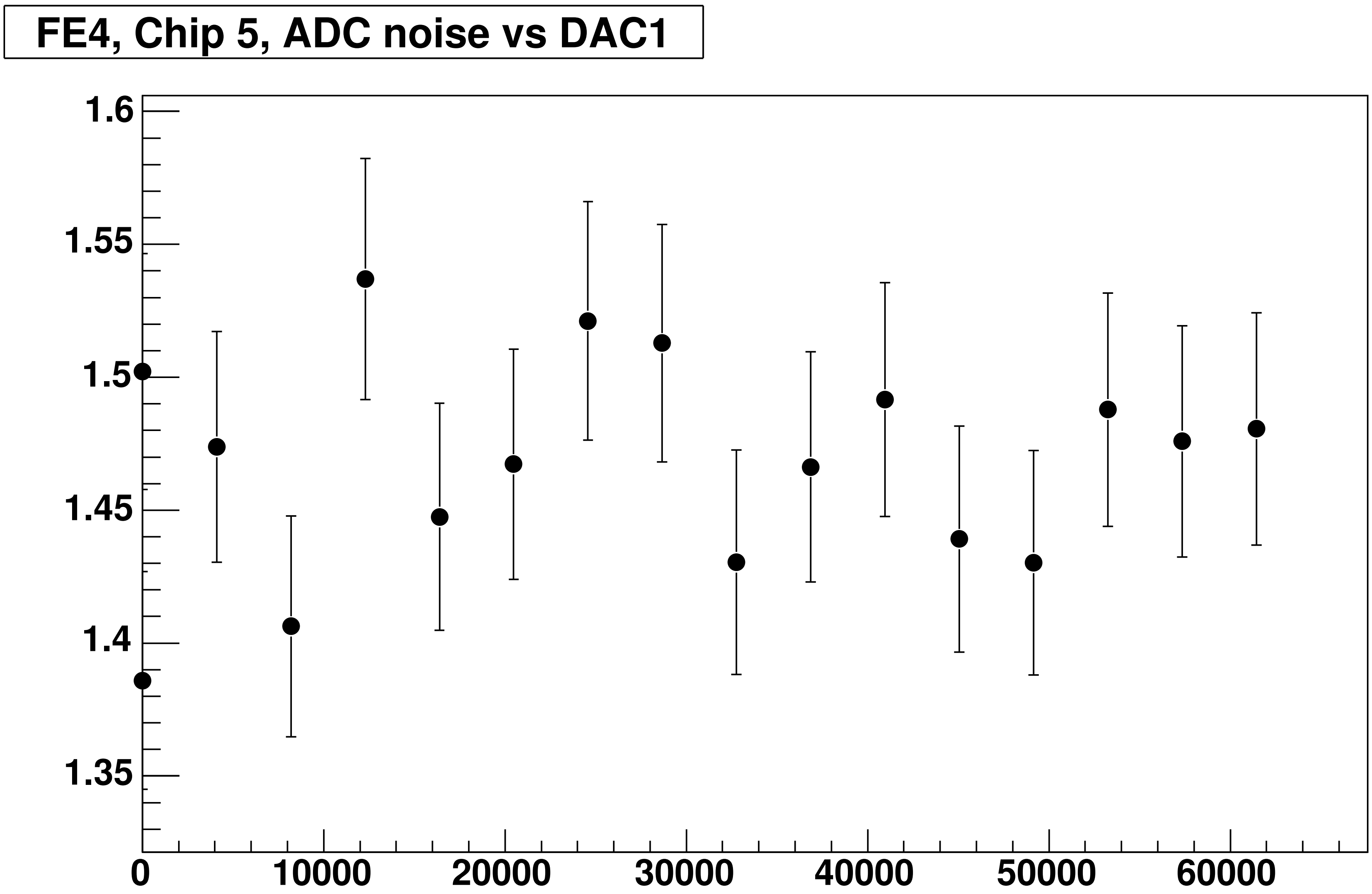


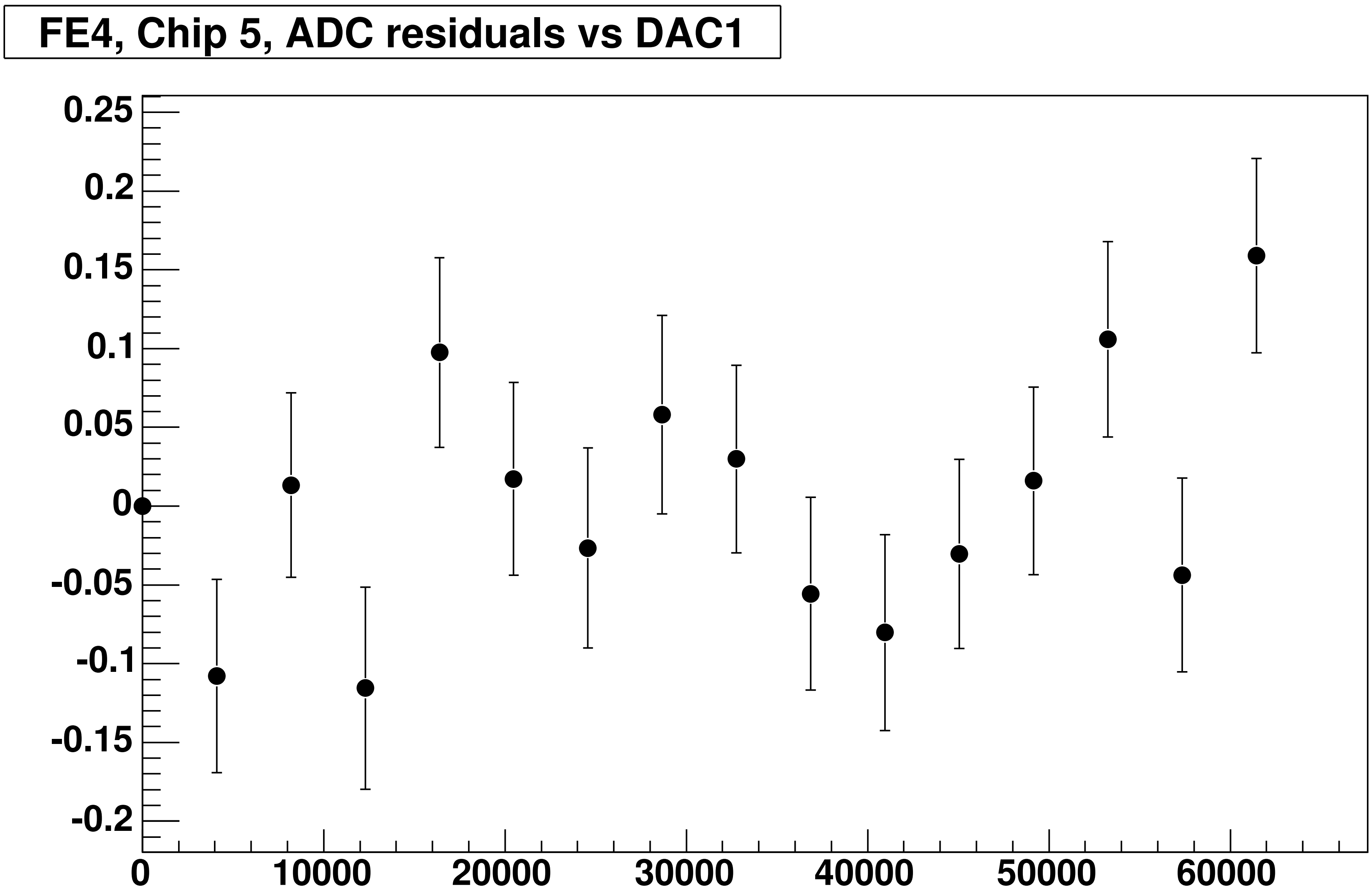
FE4, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

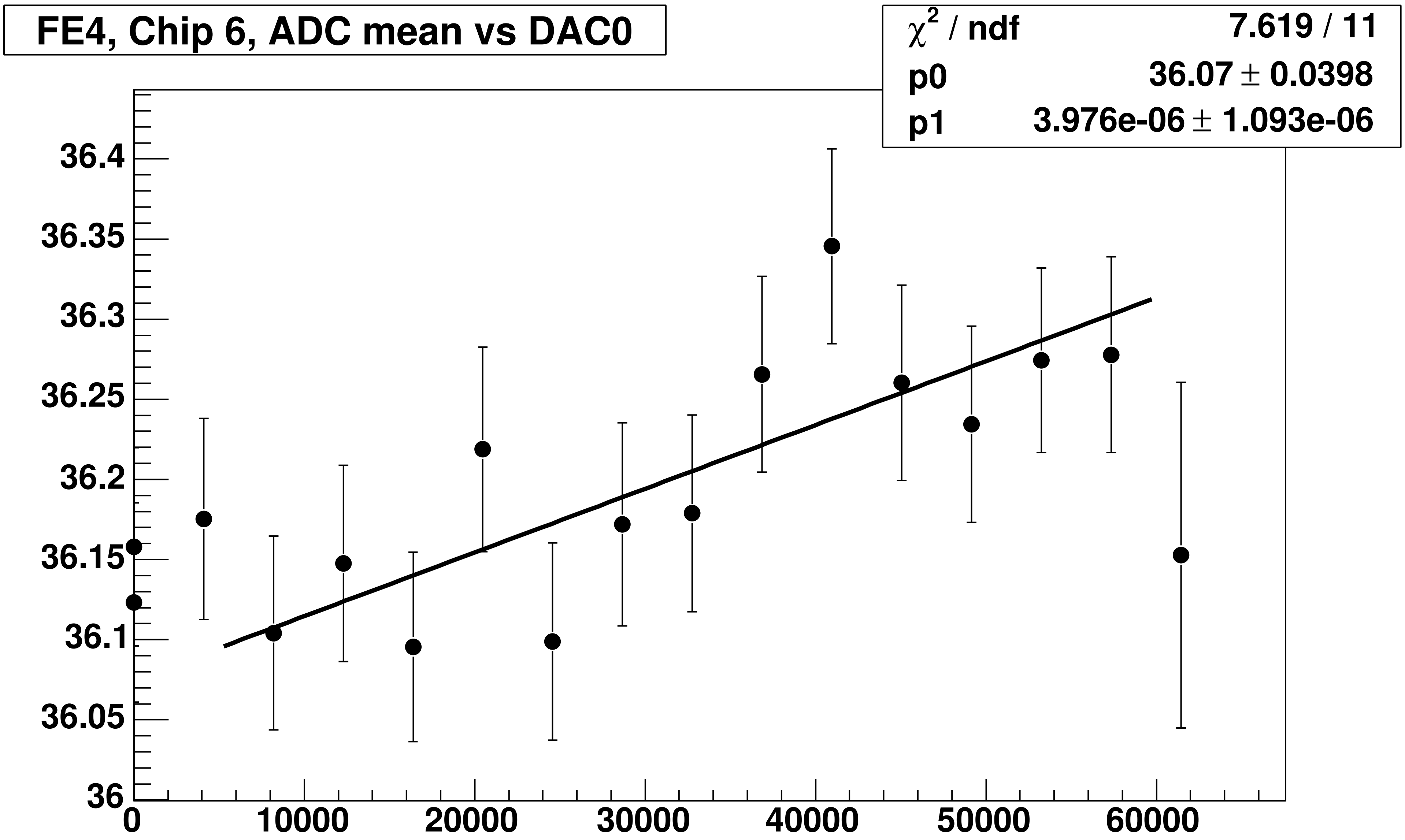

FE4, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

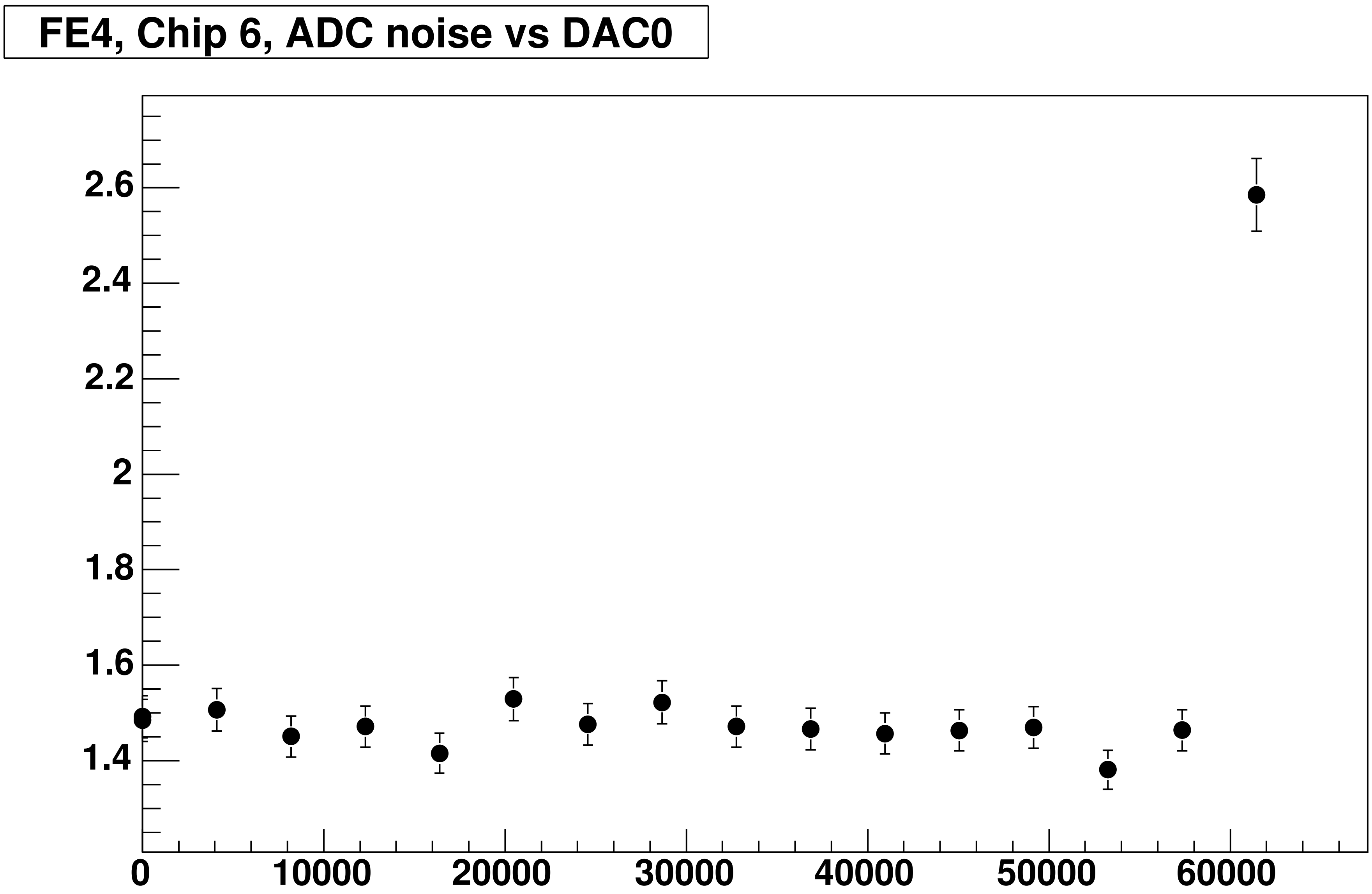


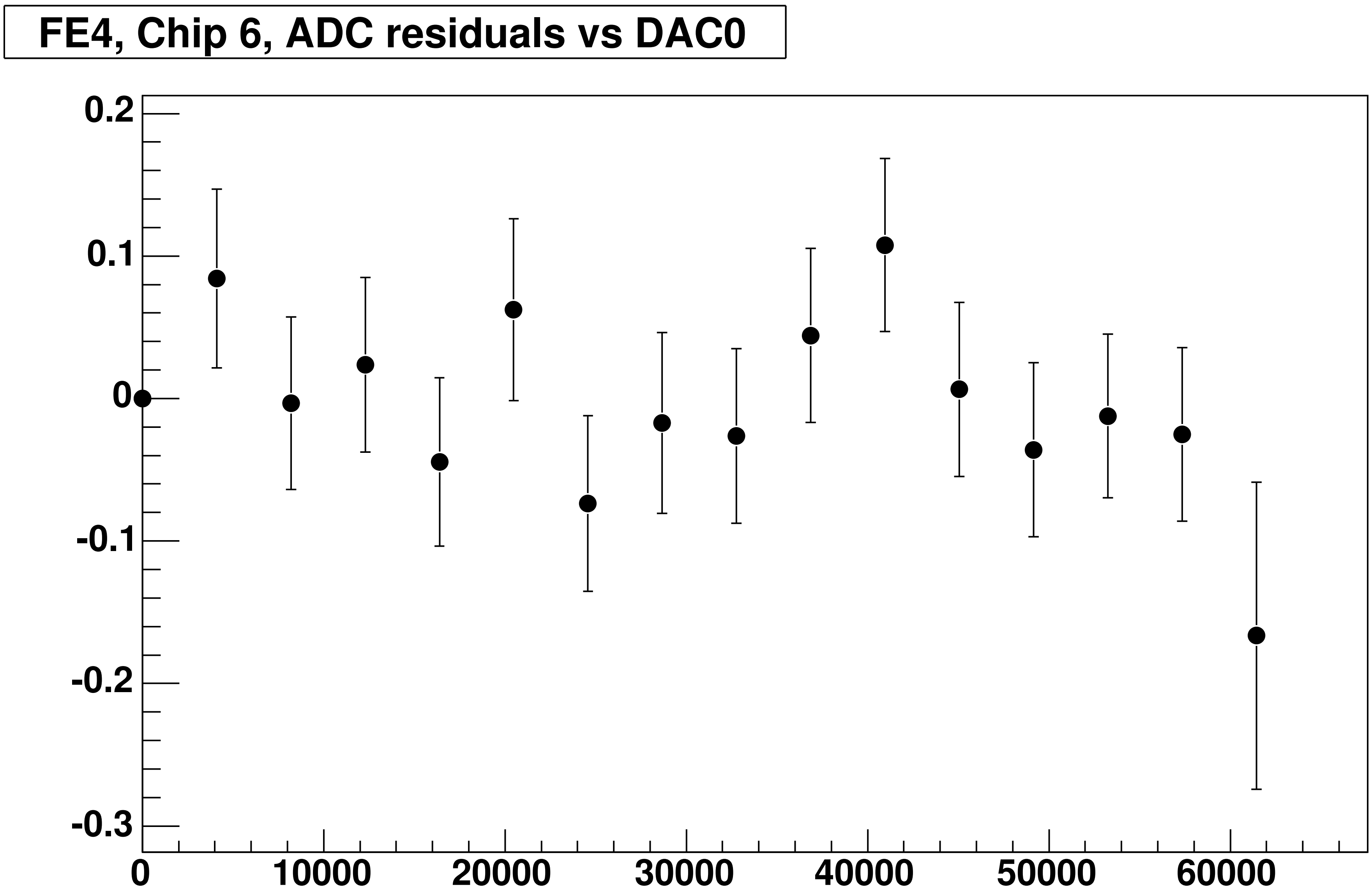
FE4, Chip 5, ADC mean vs DAC1
χ^2 / ndf 13.54 / 11
p0 -18.68 ± 0.03996
p1 2.22e-06 ± 1.103e-06
-18.3
-18.4
-18.5
-18.6
-18.7
-18.8
0
10000
20000
30000
40000
50000
60000

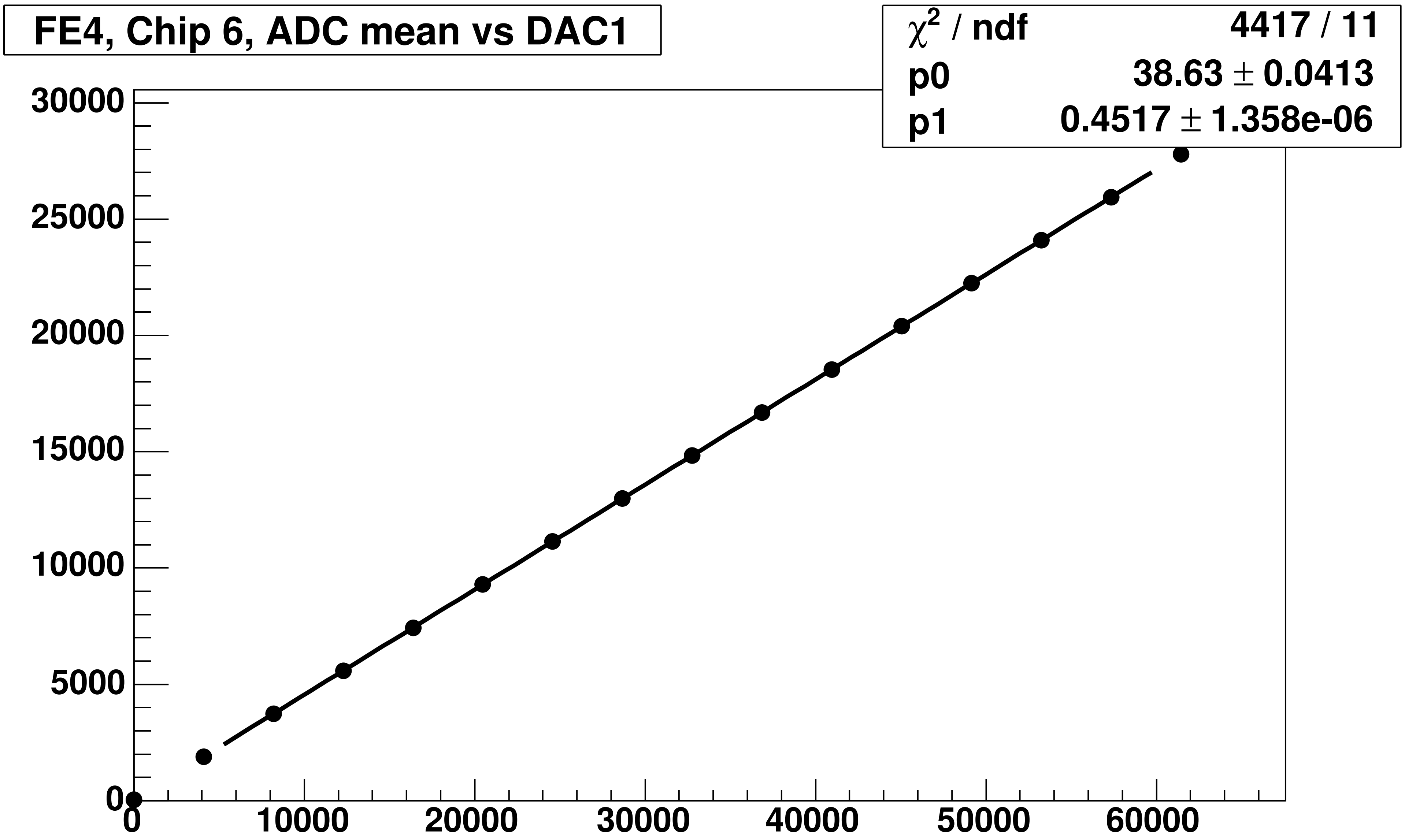

FE4, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE4, Chip 5, 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

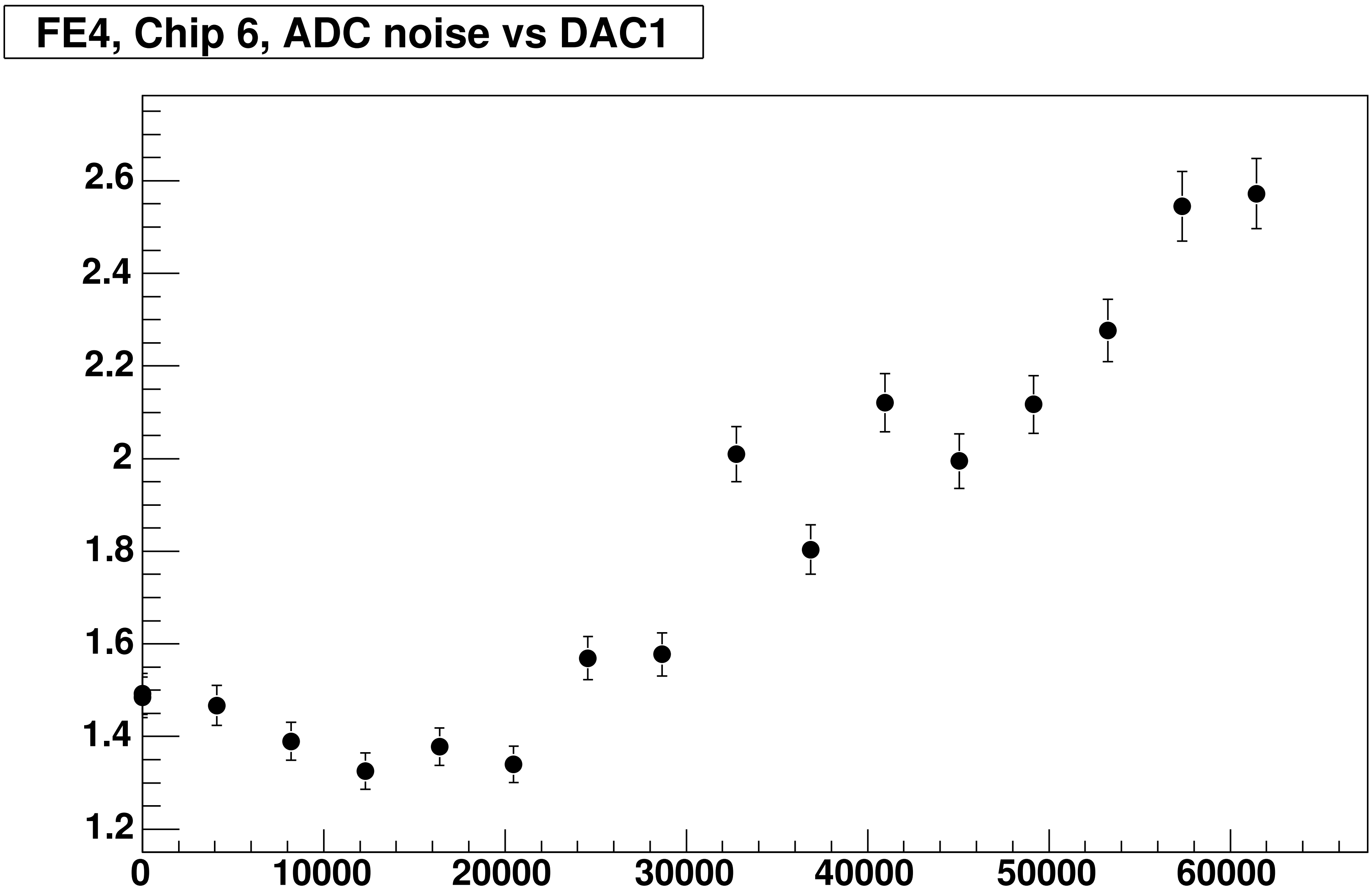

FE4, Chip 6, ADC mean vs DAC0
χ^2 / ndf 7.619 / 11
p0 36.07 ± 0.0398
p1 3.976e-06 ± 1.093e-06
36.4
36.35
36.3
36.25
36.2
36.15
36.1
36.05
36
0
10000
20000
30000
40000
50000
60000

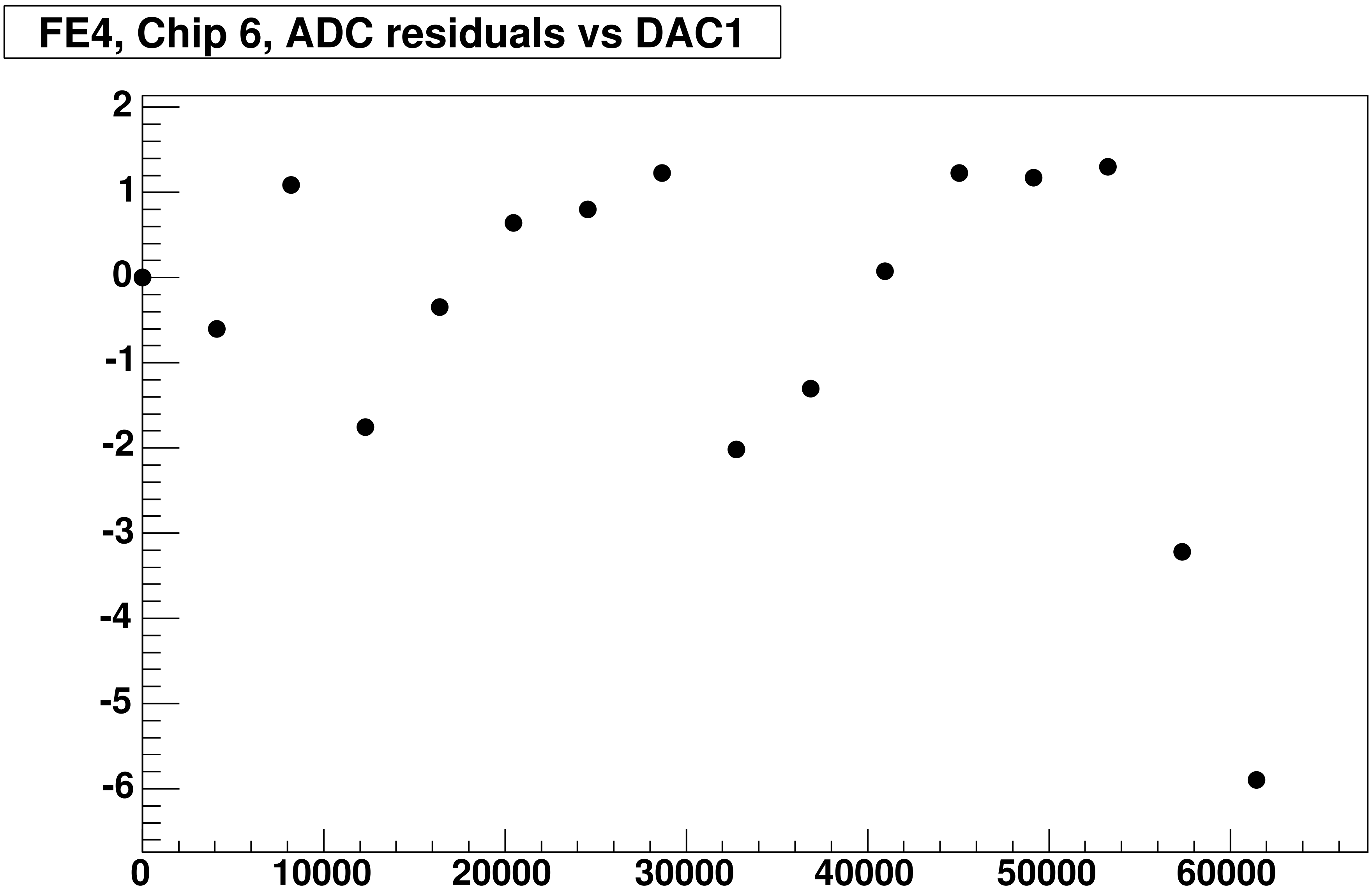

FE4, Chip 6, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

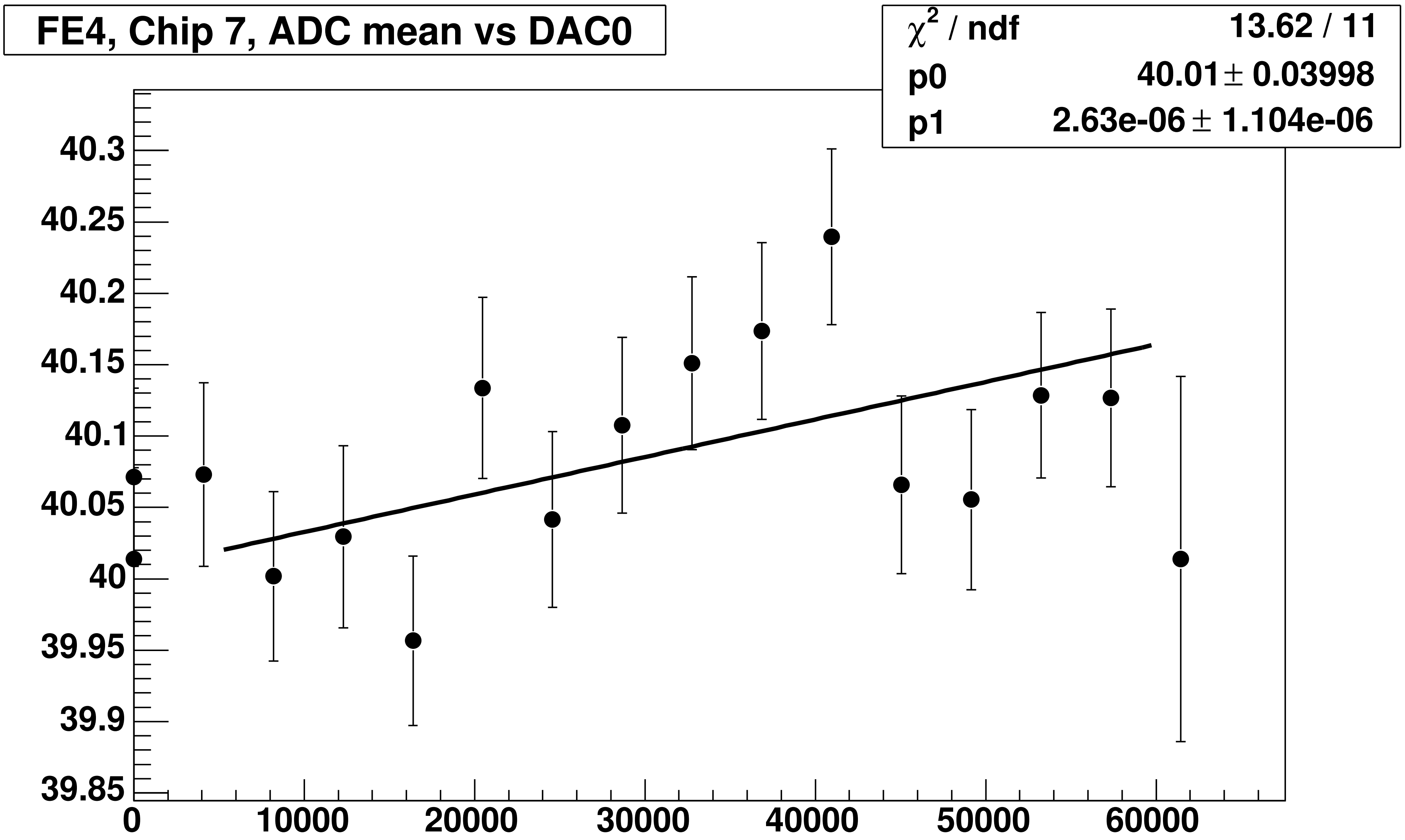

FE4, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



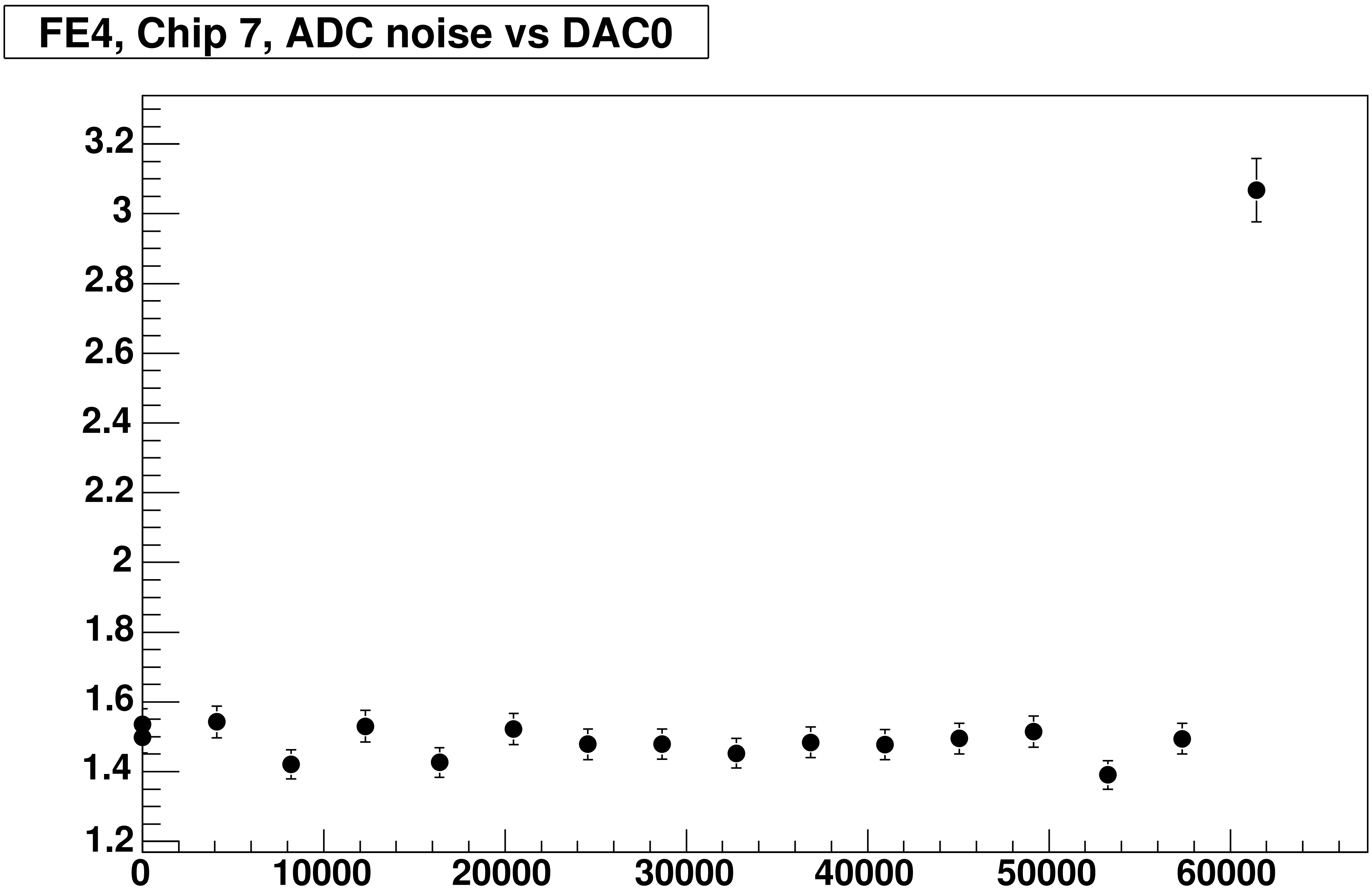
FE4, Chip 6, ADC mean vs DAC1
χ^2 / ndf 4417 / 11
p0 38.63 ± 0.0413
p1 0.4517 ± 1.358e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

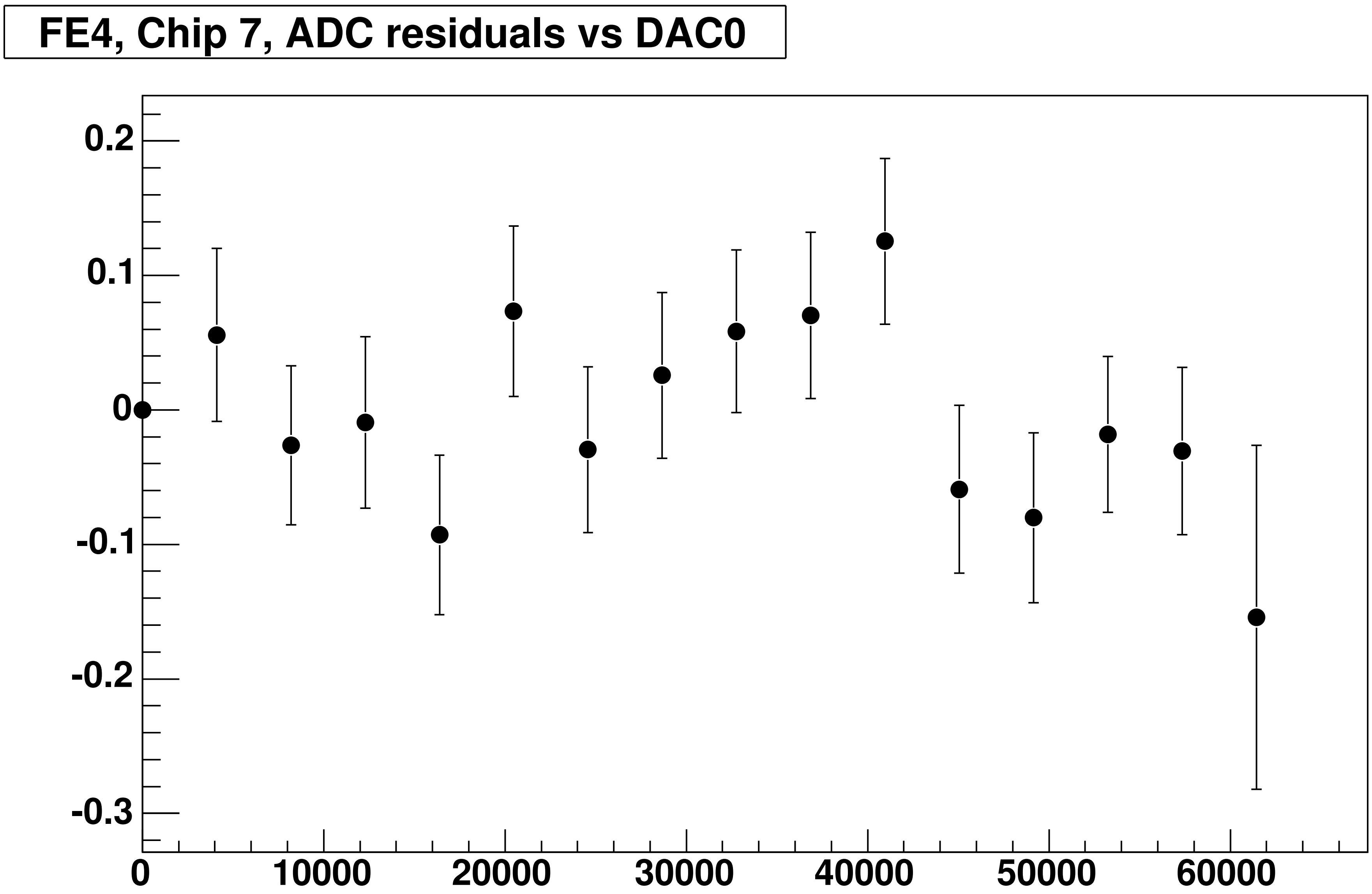

FE4, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

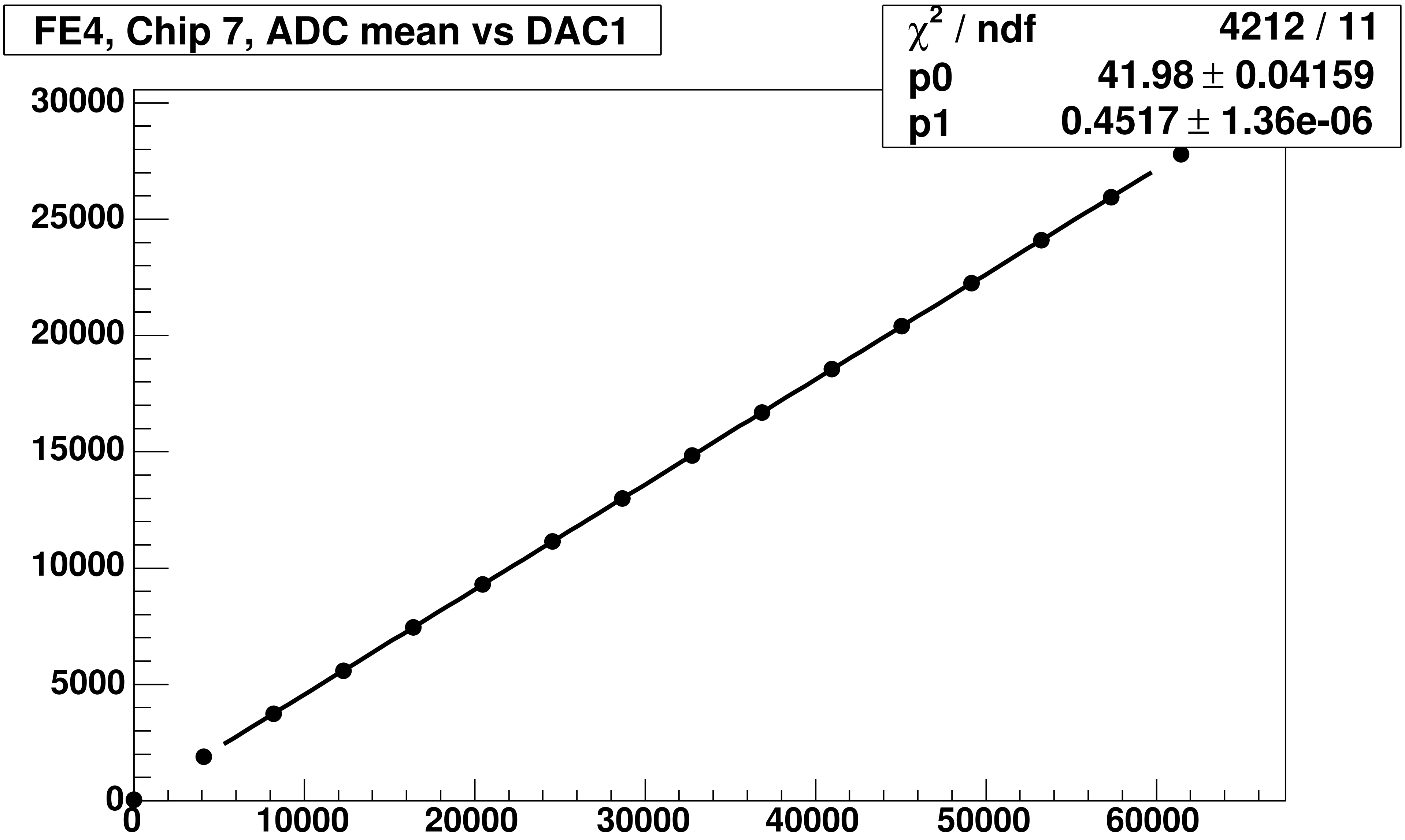

FE4, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

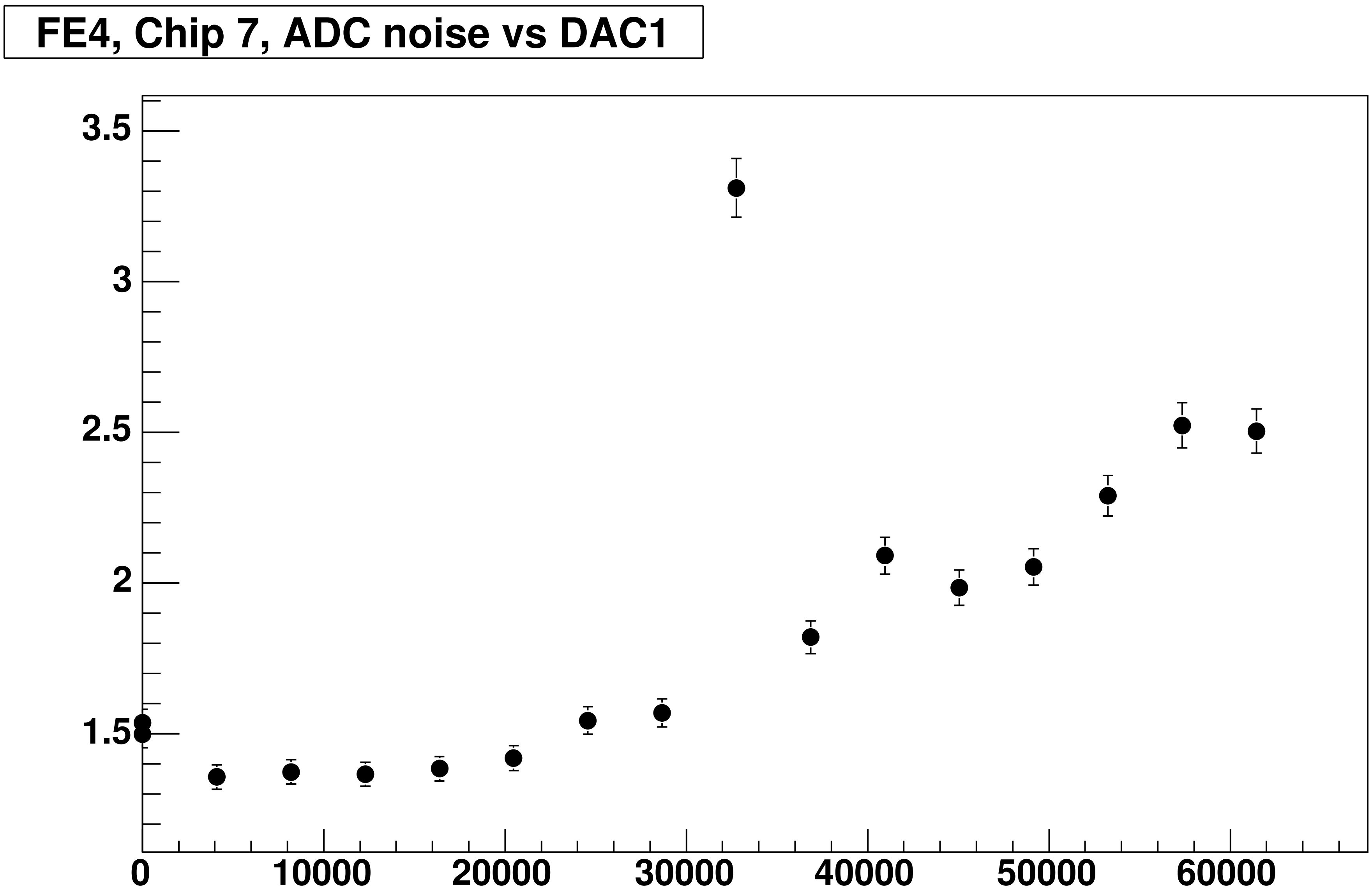


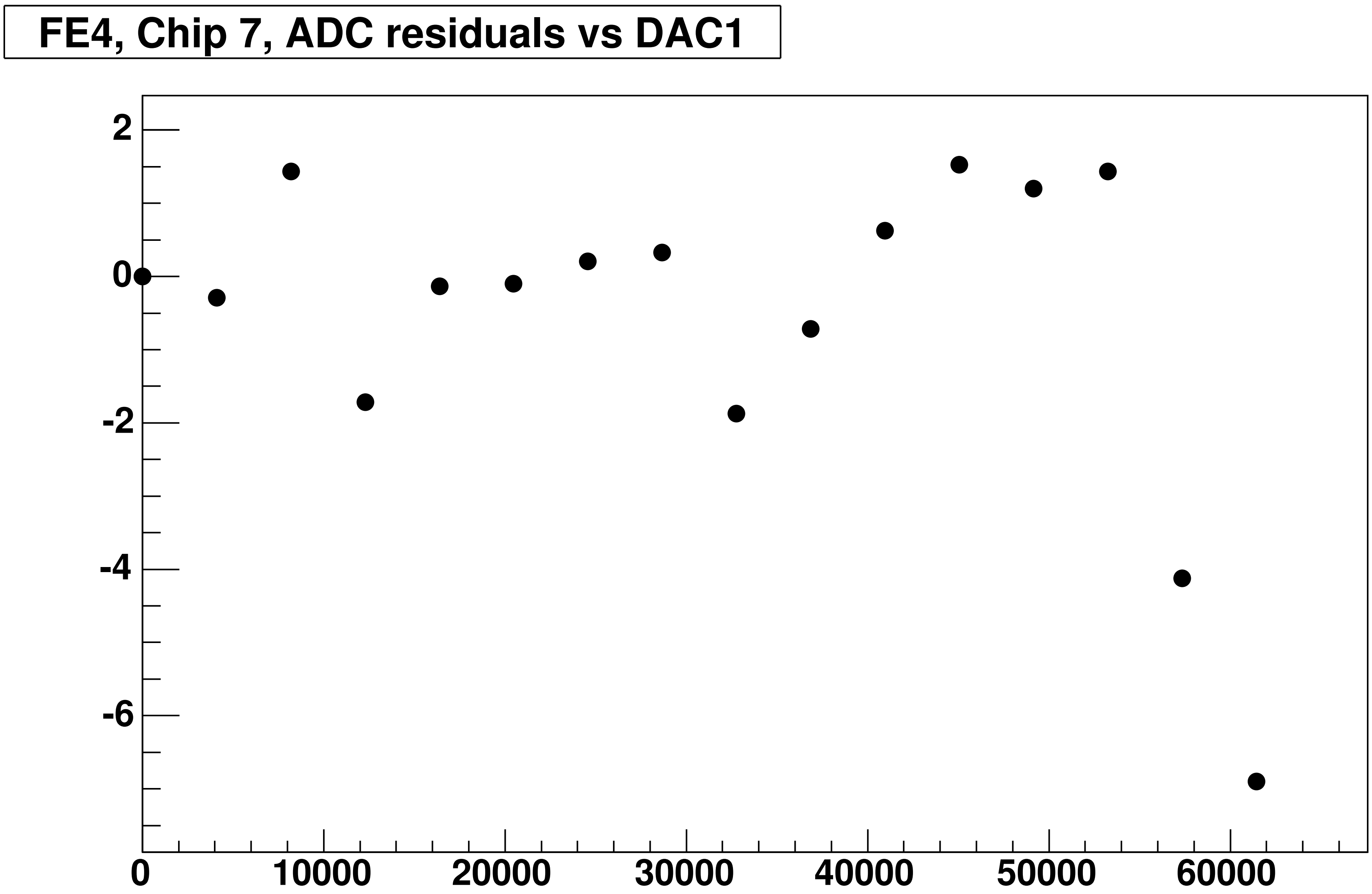
FE4, Chip 7, ADC mean vs DAC0
χ^2 / ndf 13.62 / 11
p0 40.01 ± 0.03998
p1 2.63e-06 ± 1.104e-06
40.3
40.25
40.2
40.15
40.1
40.05
40
39.95
39.9
39.85
0
10000
20000
30000
40000
50000
60000

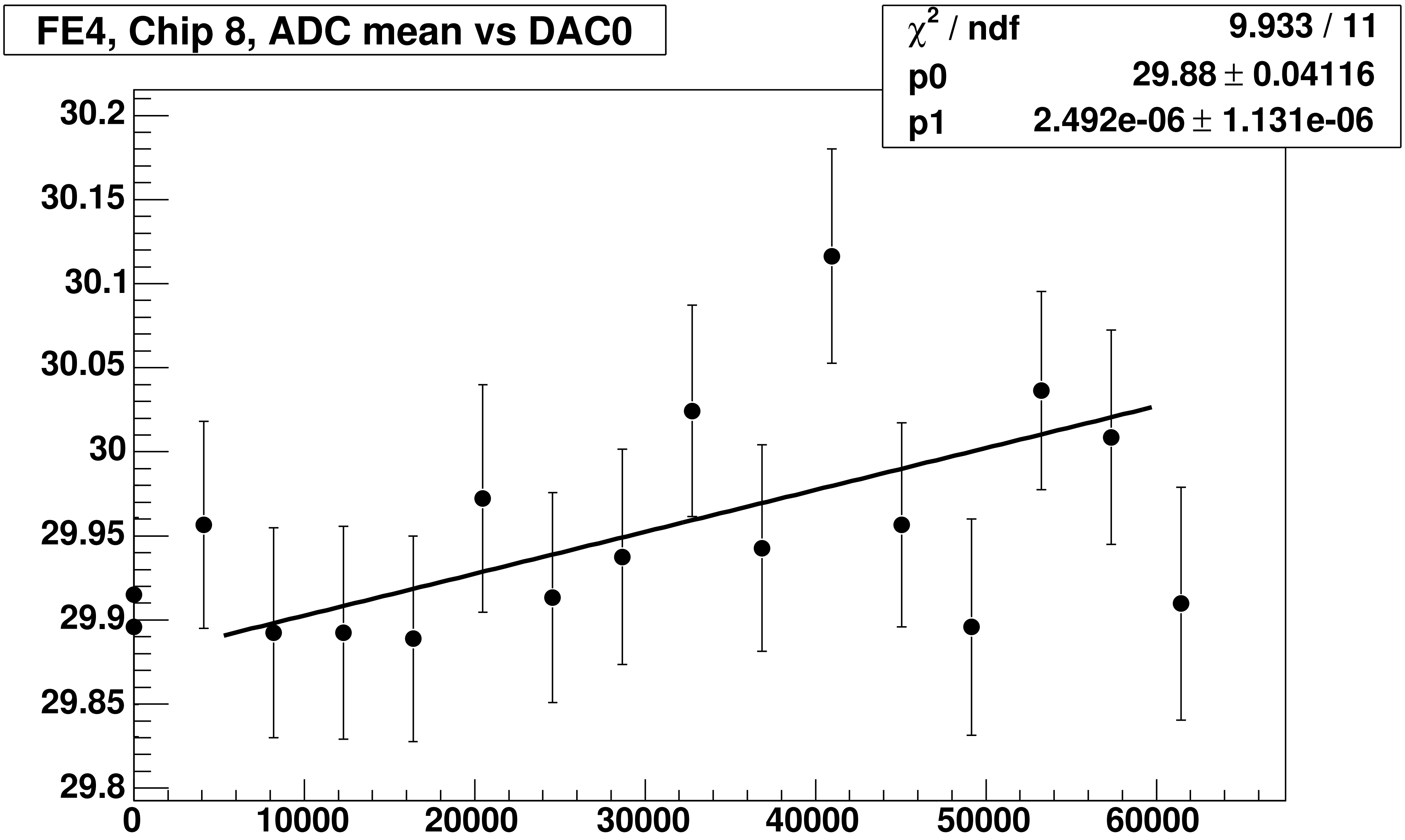

FE4, Chip 7, ADC noise vs DAC0
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

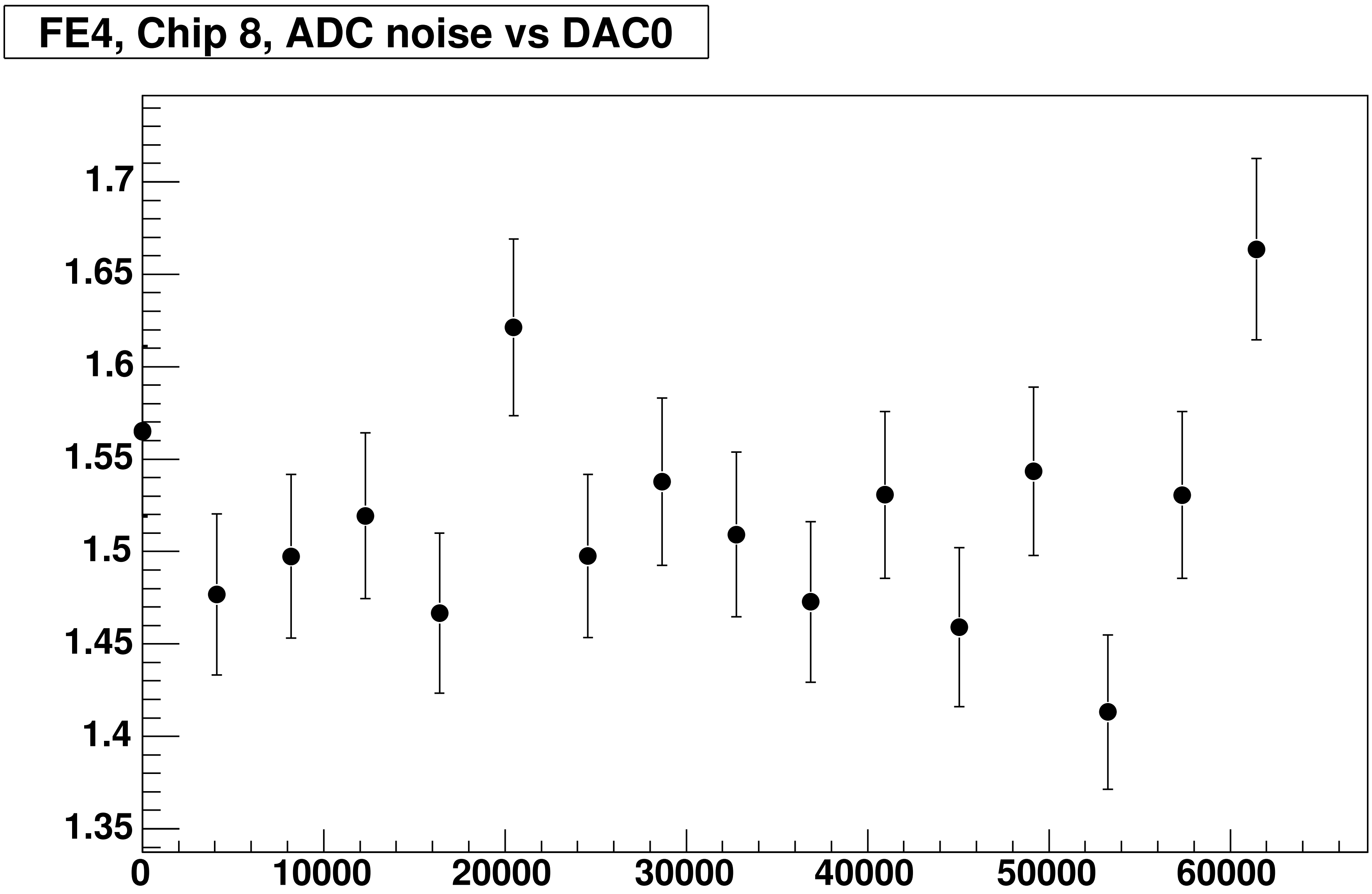

FE4, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

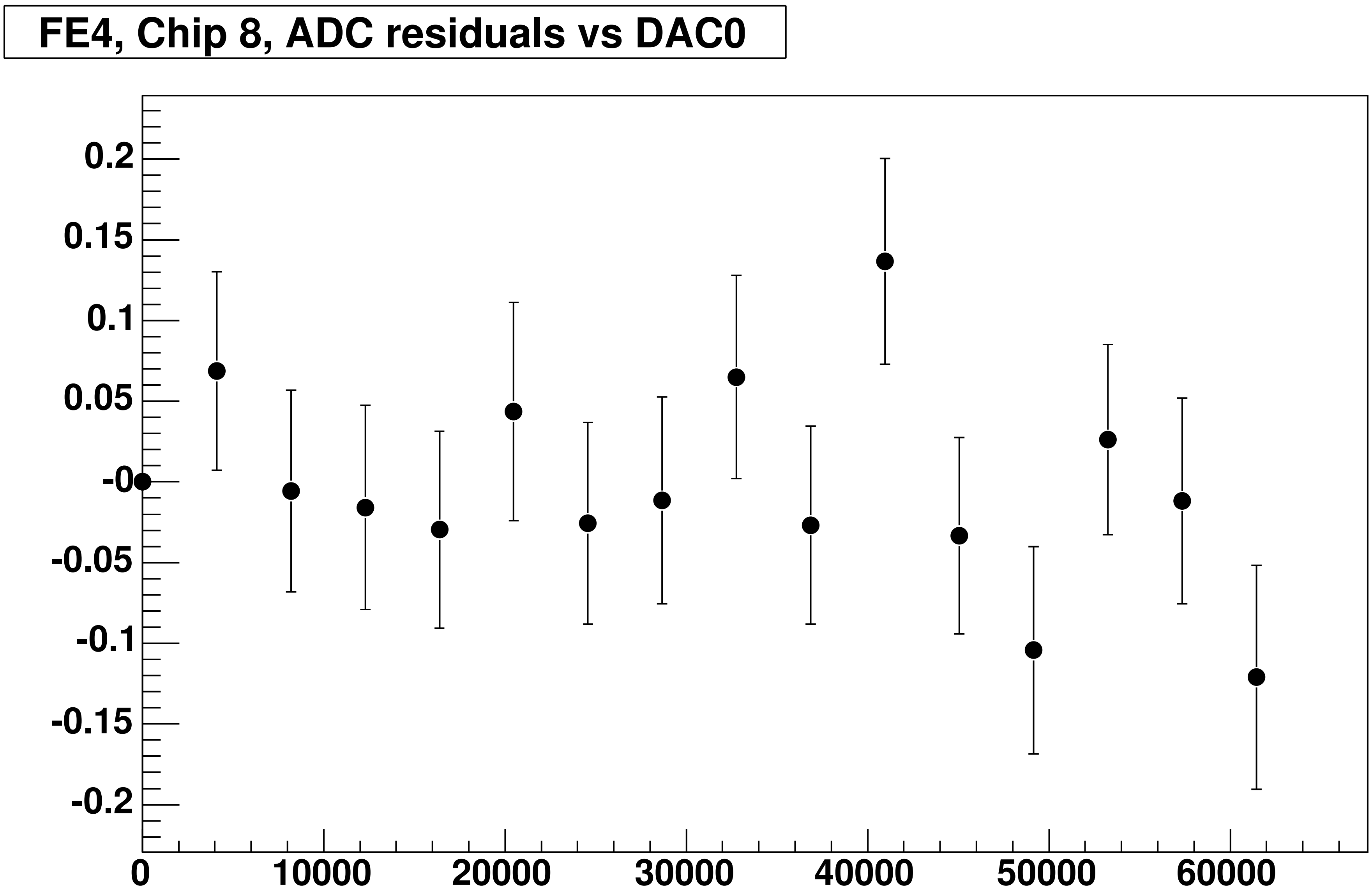

FE4, Chip 7, ADC mean vs DAC1
χ2 / ndf 4212 / 11
p0 41.98 ± 0.04159
p1 0.4517 ± 1.36e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

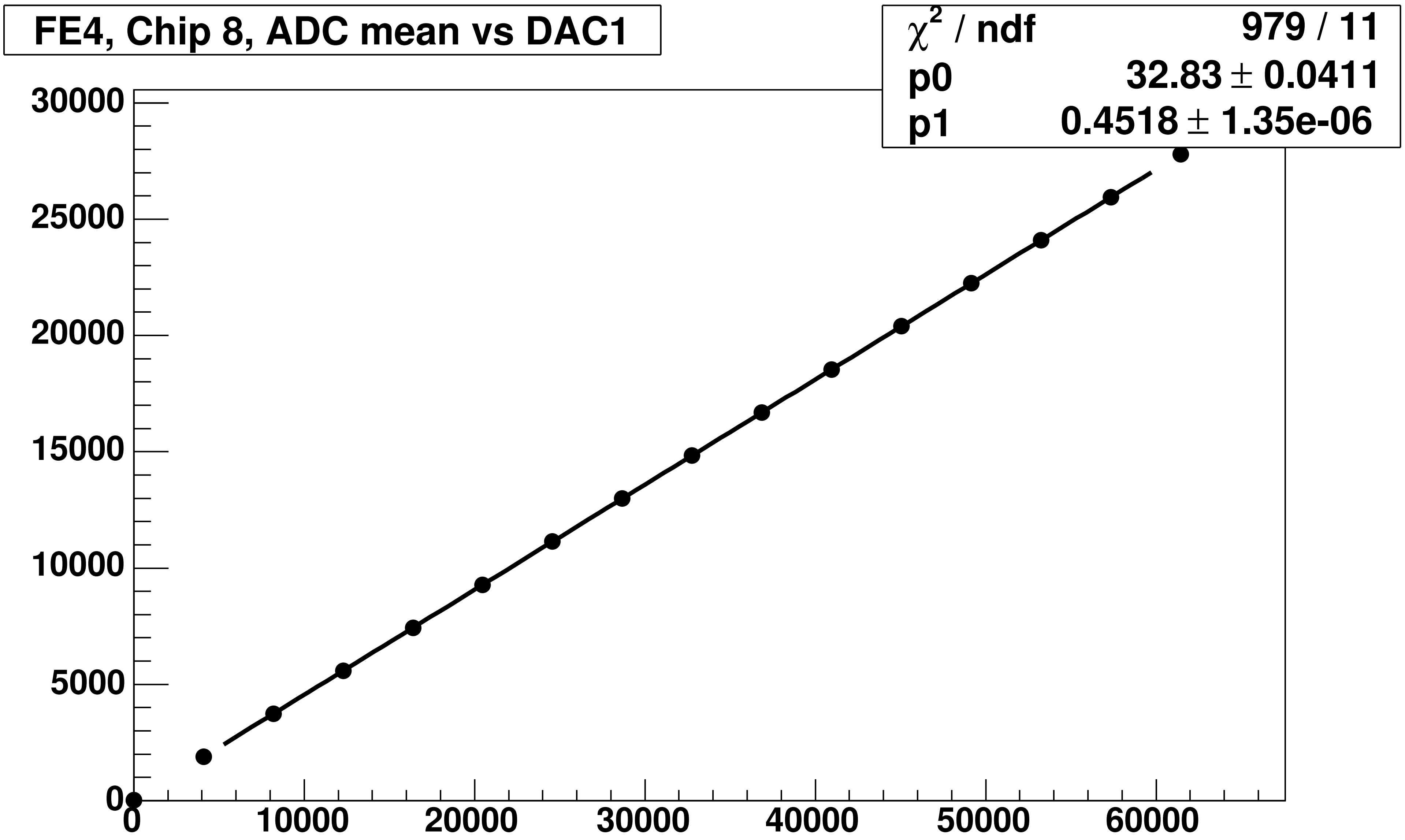

FE4, Chip 7, ADC noise vs DAC1
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

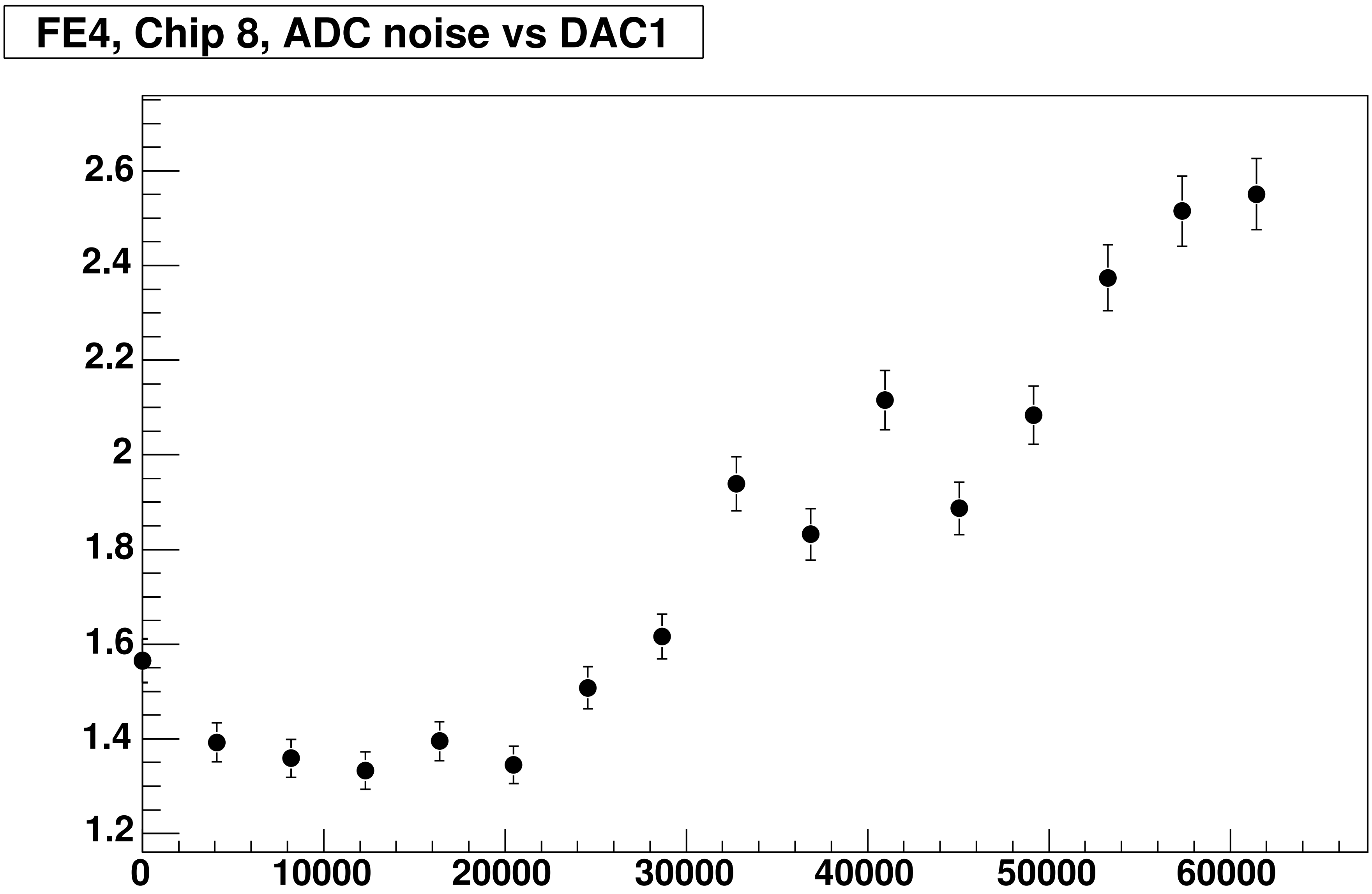

FE4, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

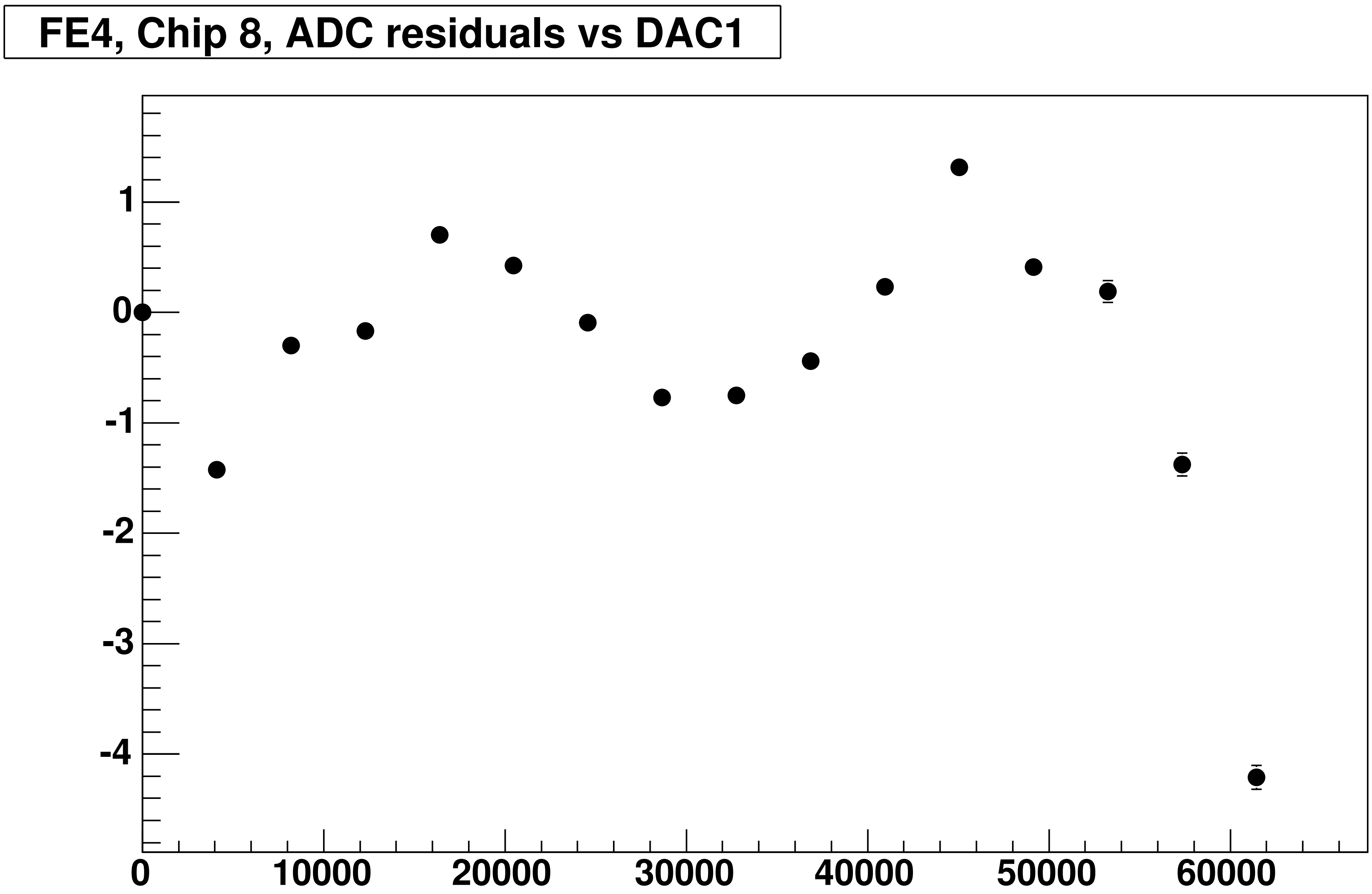

FE4, Chip 8, ADC mean vs DAC0
χ² / ndf 9.933 / 11
p0 29.88 ± 0.04116
p1 2.492e-06 ± 1.131e-06
30.2
30.15
30.1
30.05
30
29.95
29.9
29.85
29.8
0
10000
20000
30000
40000
50000
60000

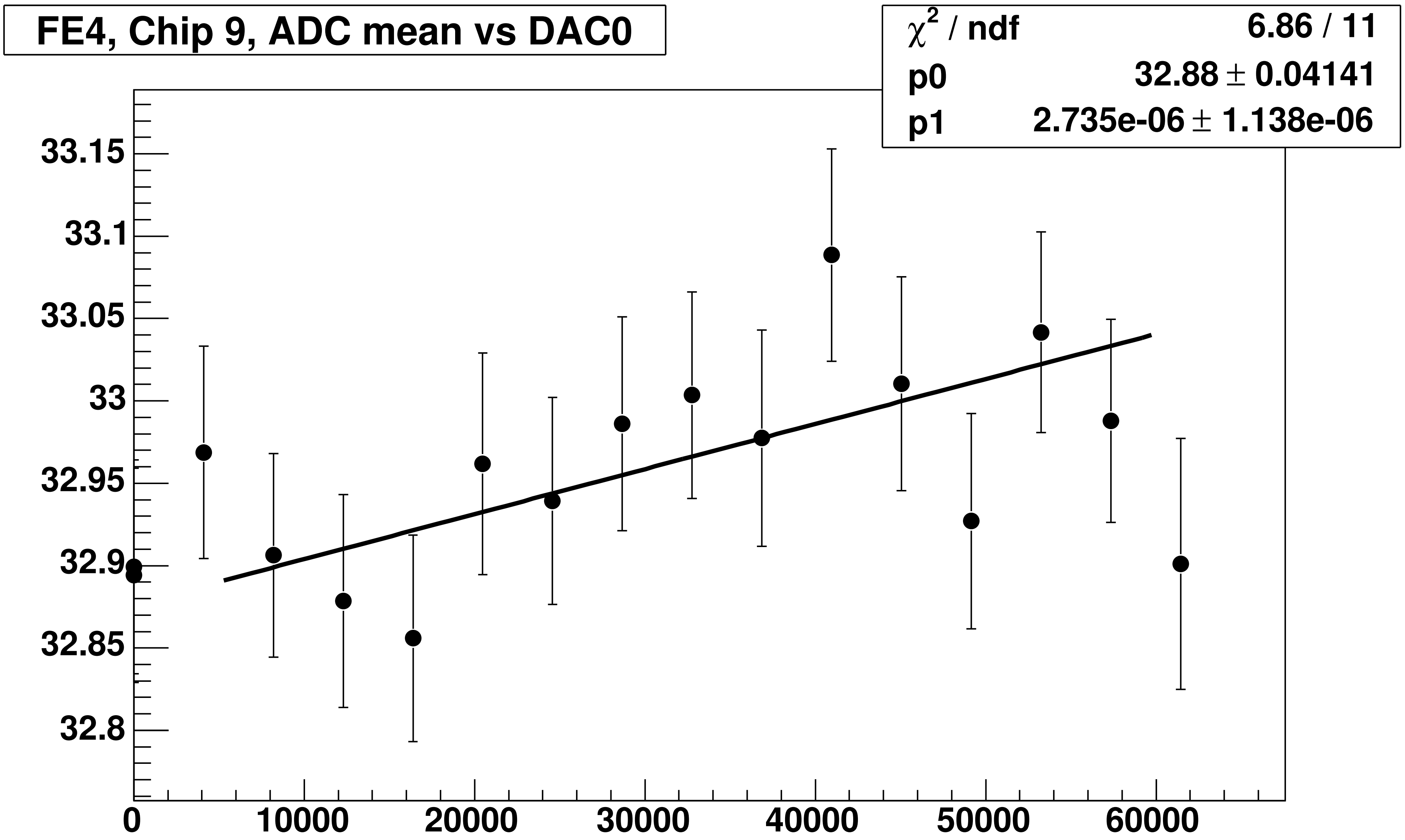

FE4, Chip 8, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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
10000
20000
30000
40000
50000
60000

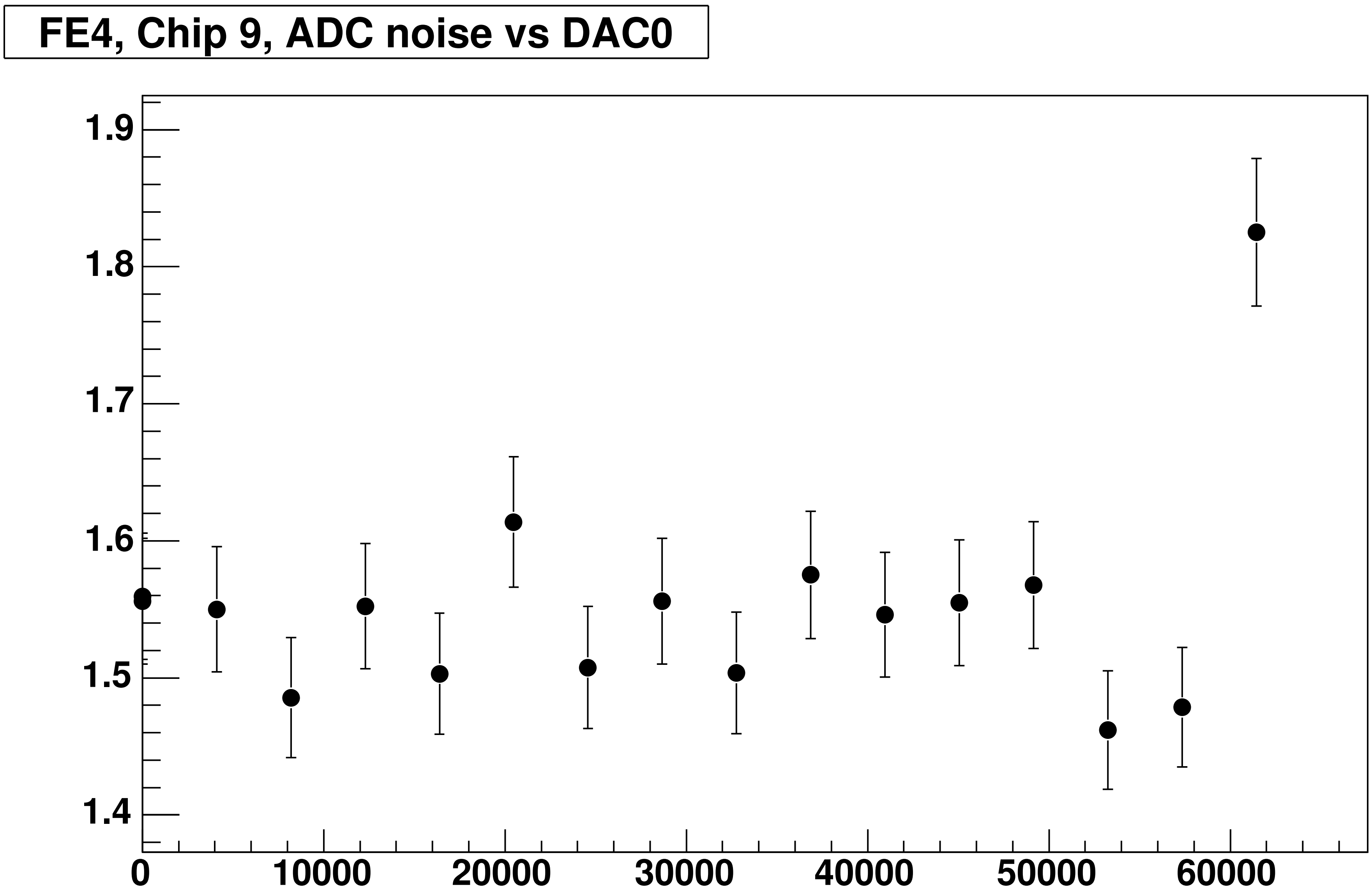

FE4, Chip 8, ADC mean vs DAC1
χ^2 / ndf 979 / 11
p0 32.83 ± 0.0411
p1 0.4518 ± 1.35e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

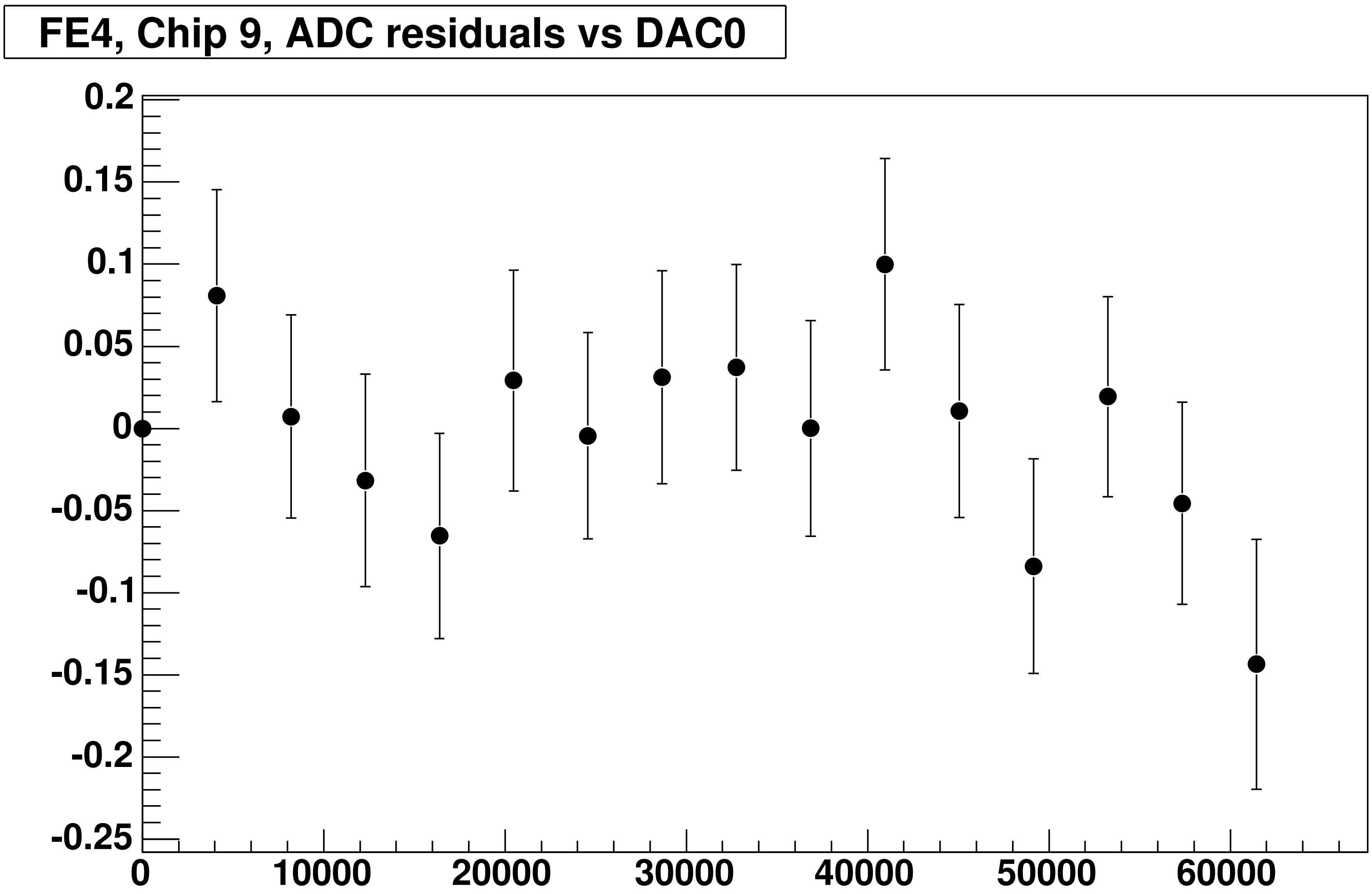

FE4, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

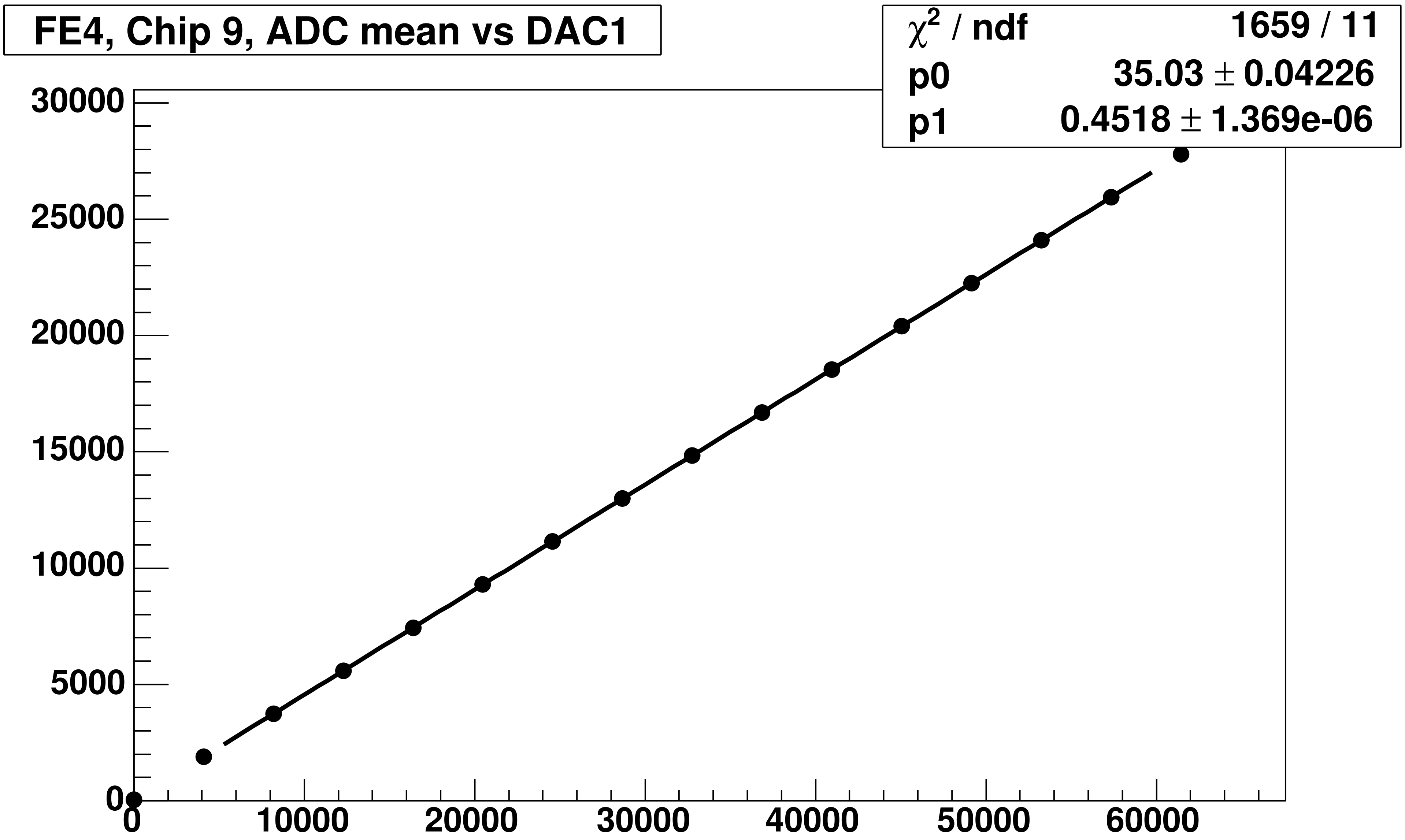


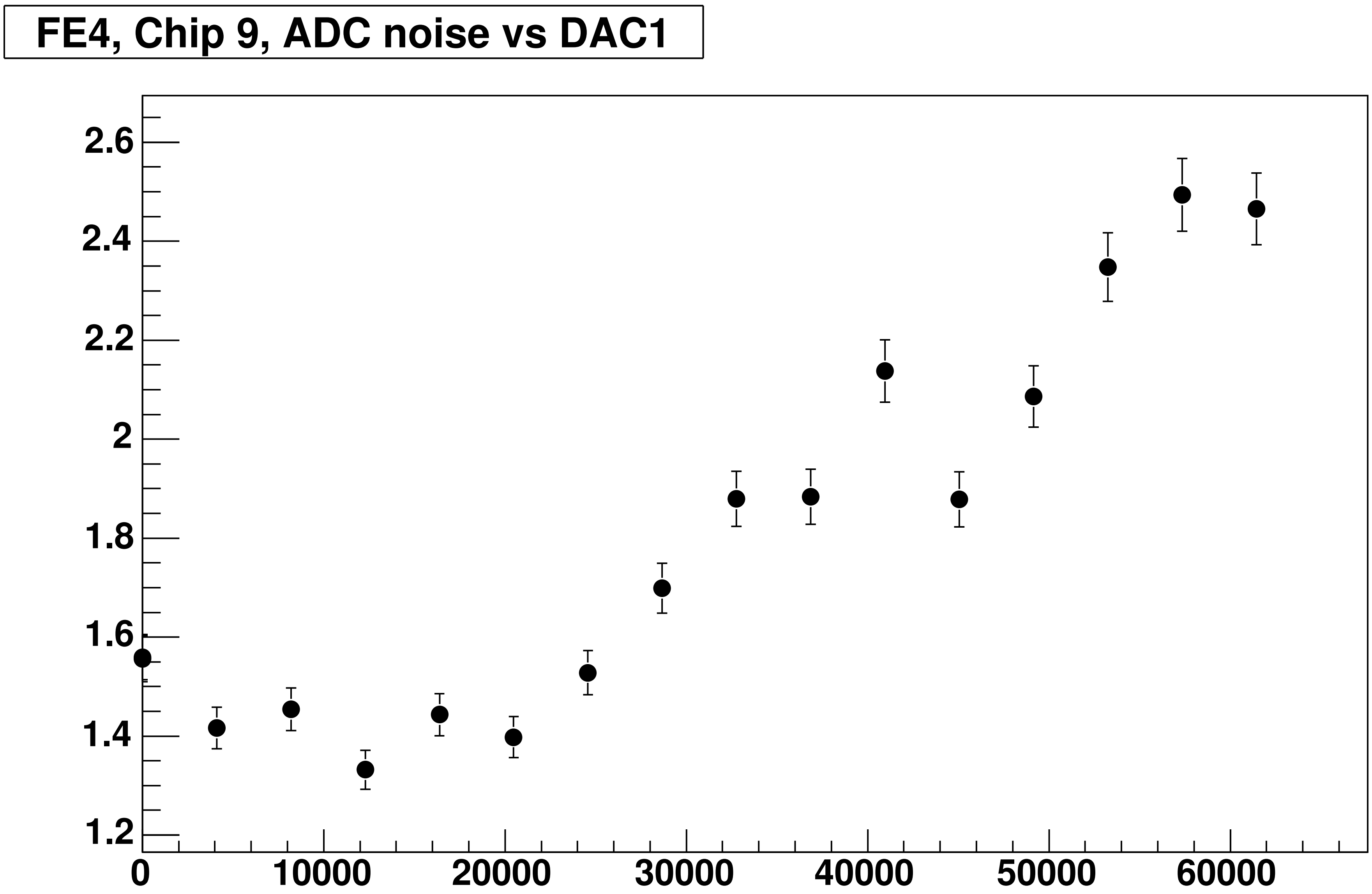
FE4, Chip 9, ADC mean vs DAC0
χ2 / ndf 6.86 / 11
p0 32.88 ± 0.04141
p1 2.735e-06 ± 1.138e-06
33.15
33.1
33.05
33
32.95
32.9
32.85
32.8
0
10000
20000
30000
40000
50000
60000

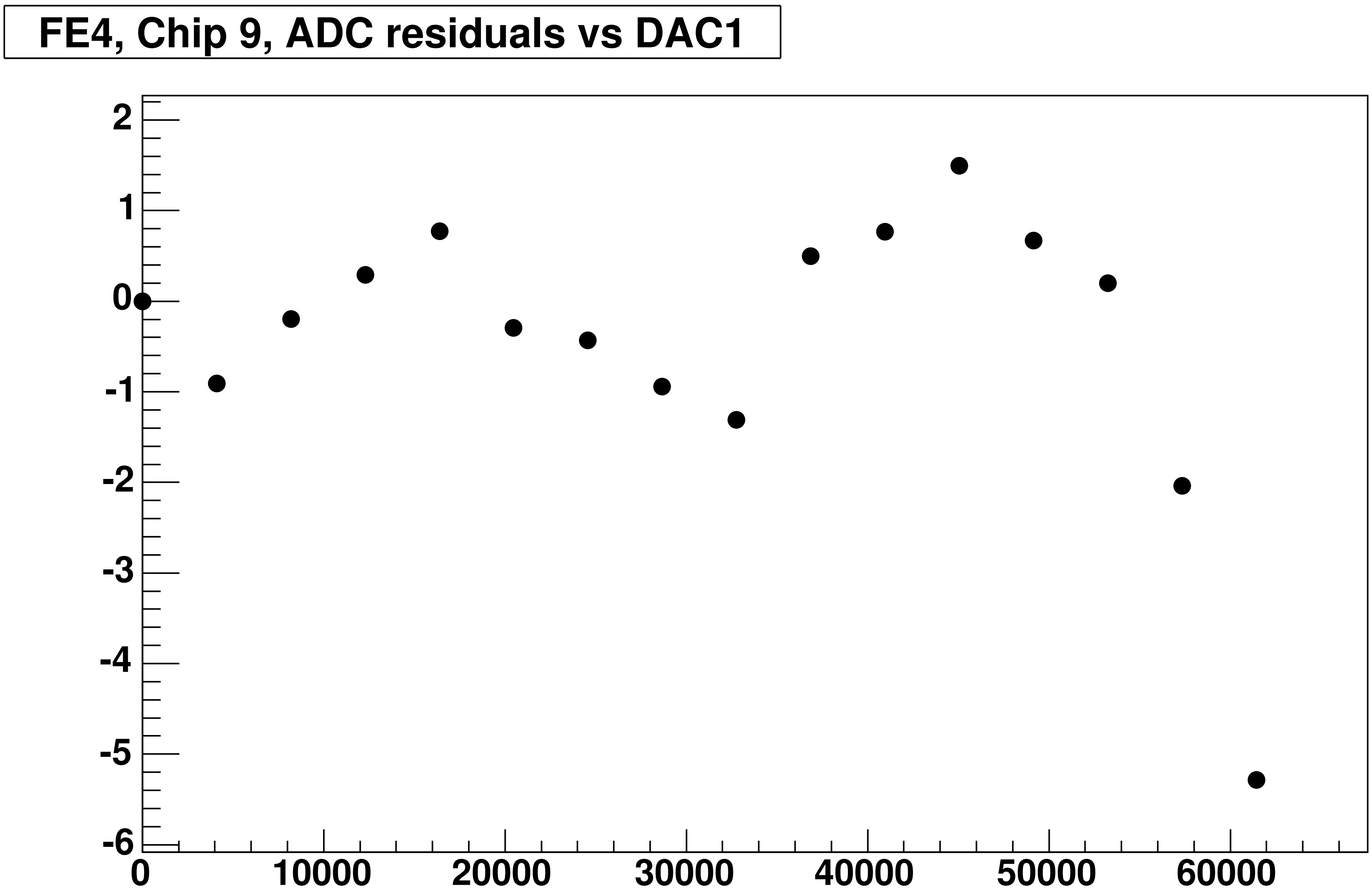

FE4, Chip 9, ADC noise vs DAC0
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000



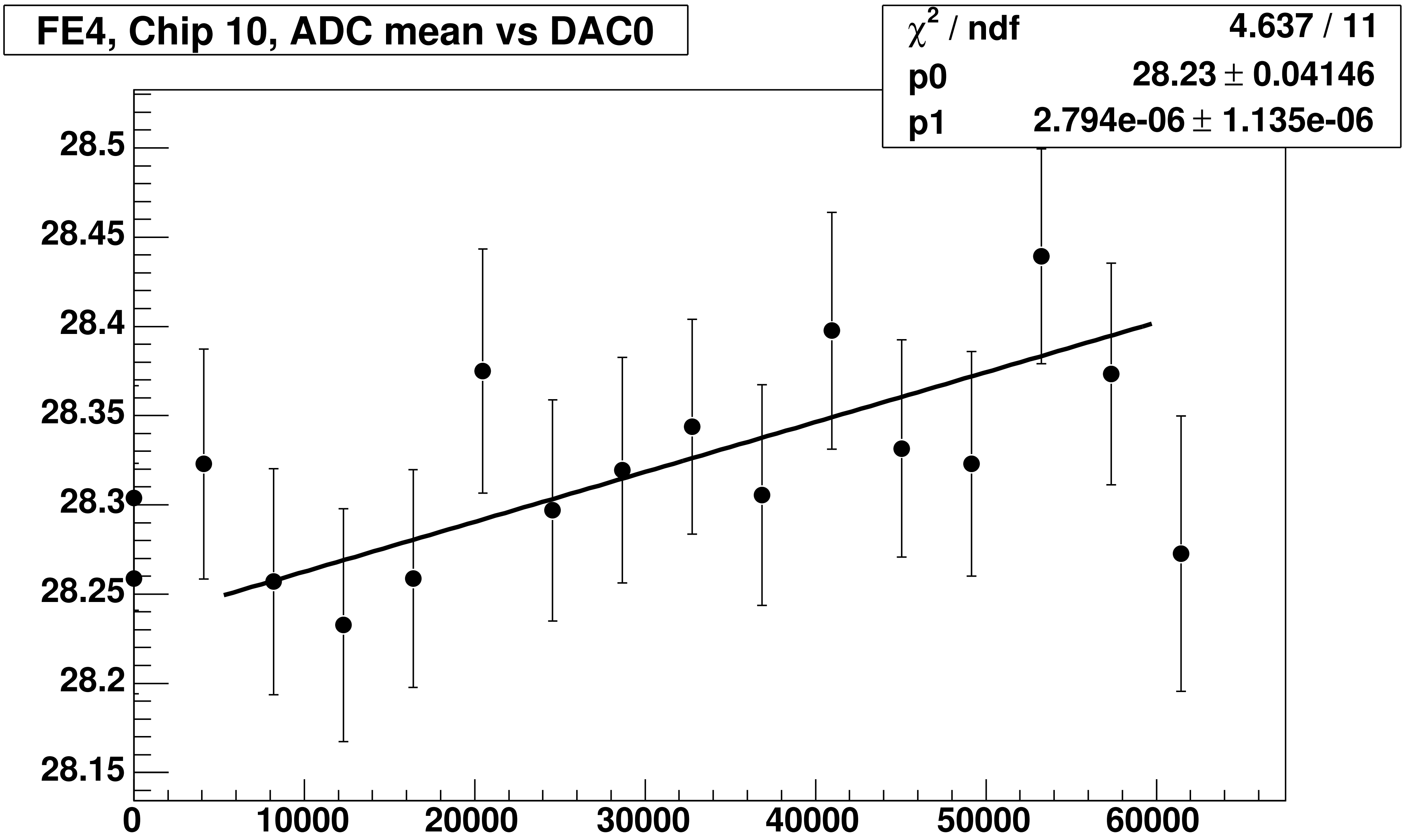
FE4, Chip 9, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000


FE4, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1659 / 11
p0 35.03 ± 0.04226
p1 0.4518 ± 1.369e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

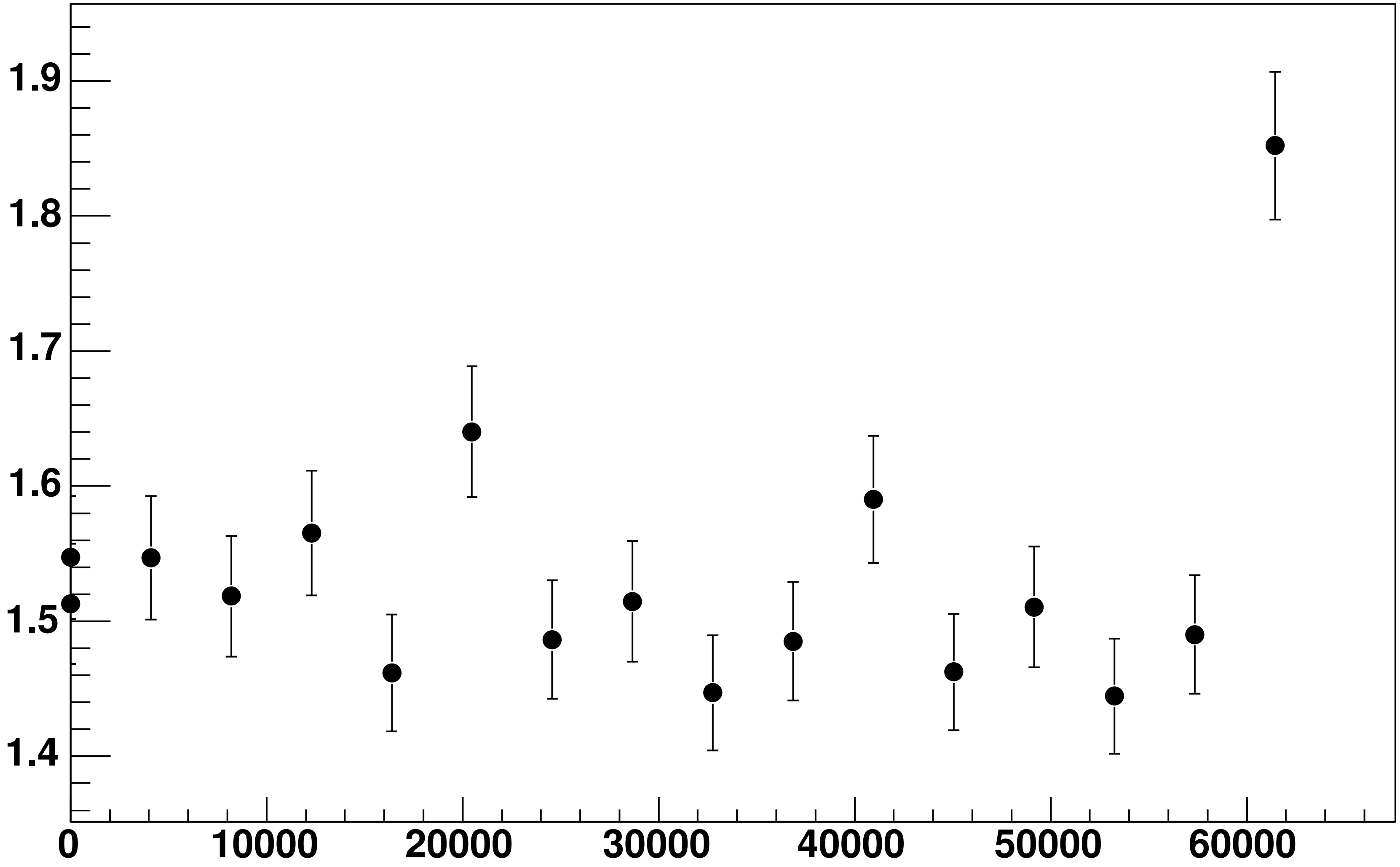

FE4, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

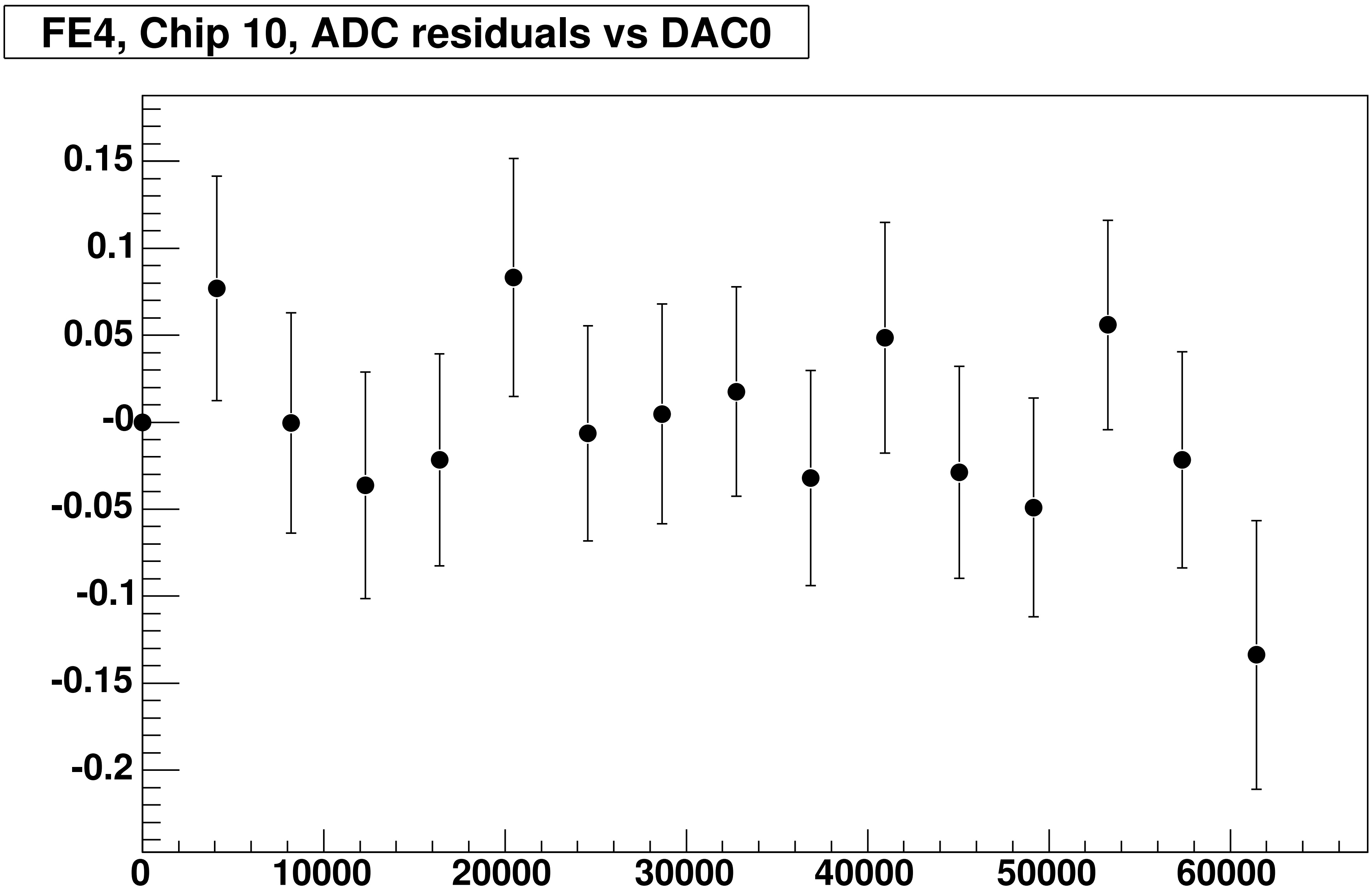


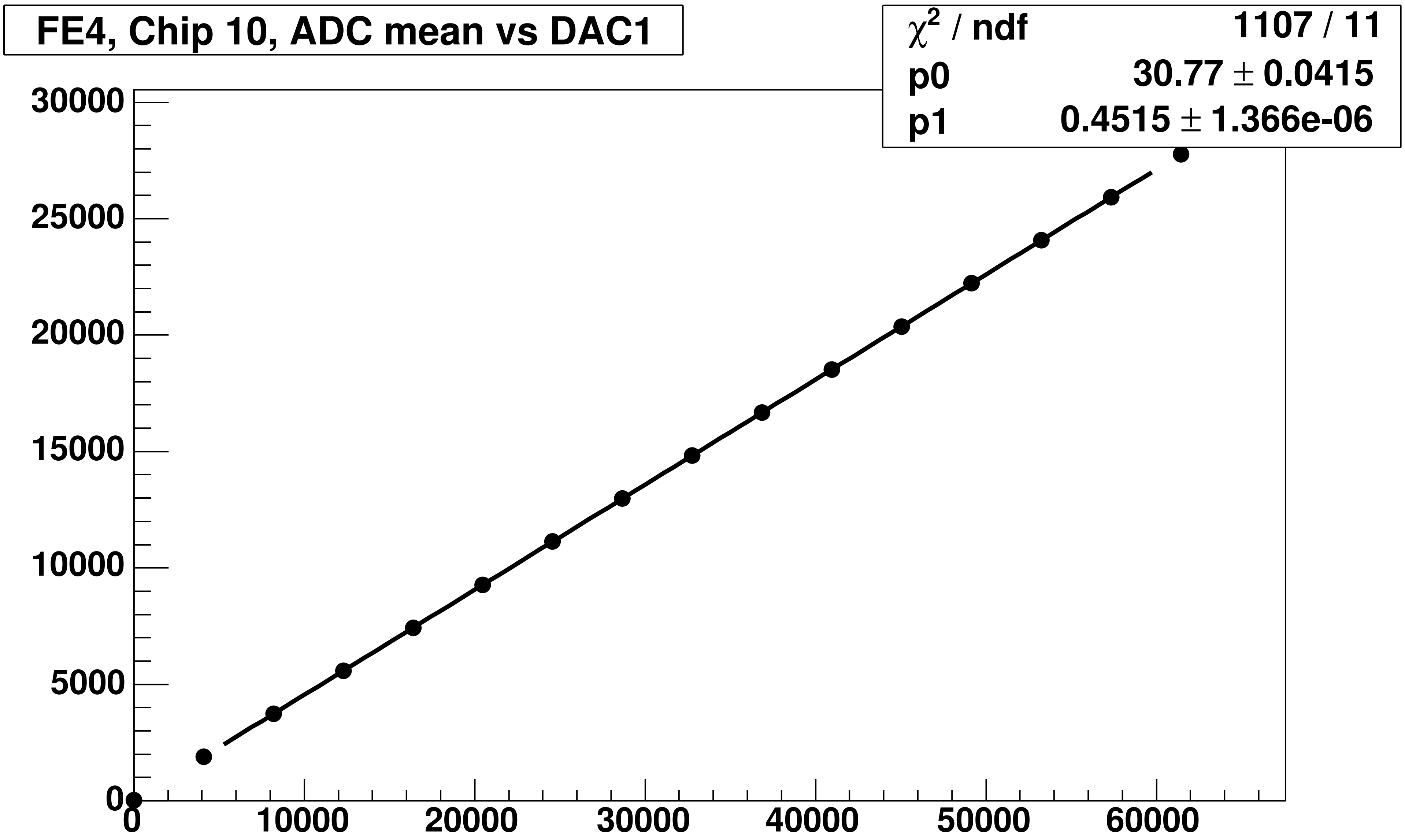
FE4, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

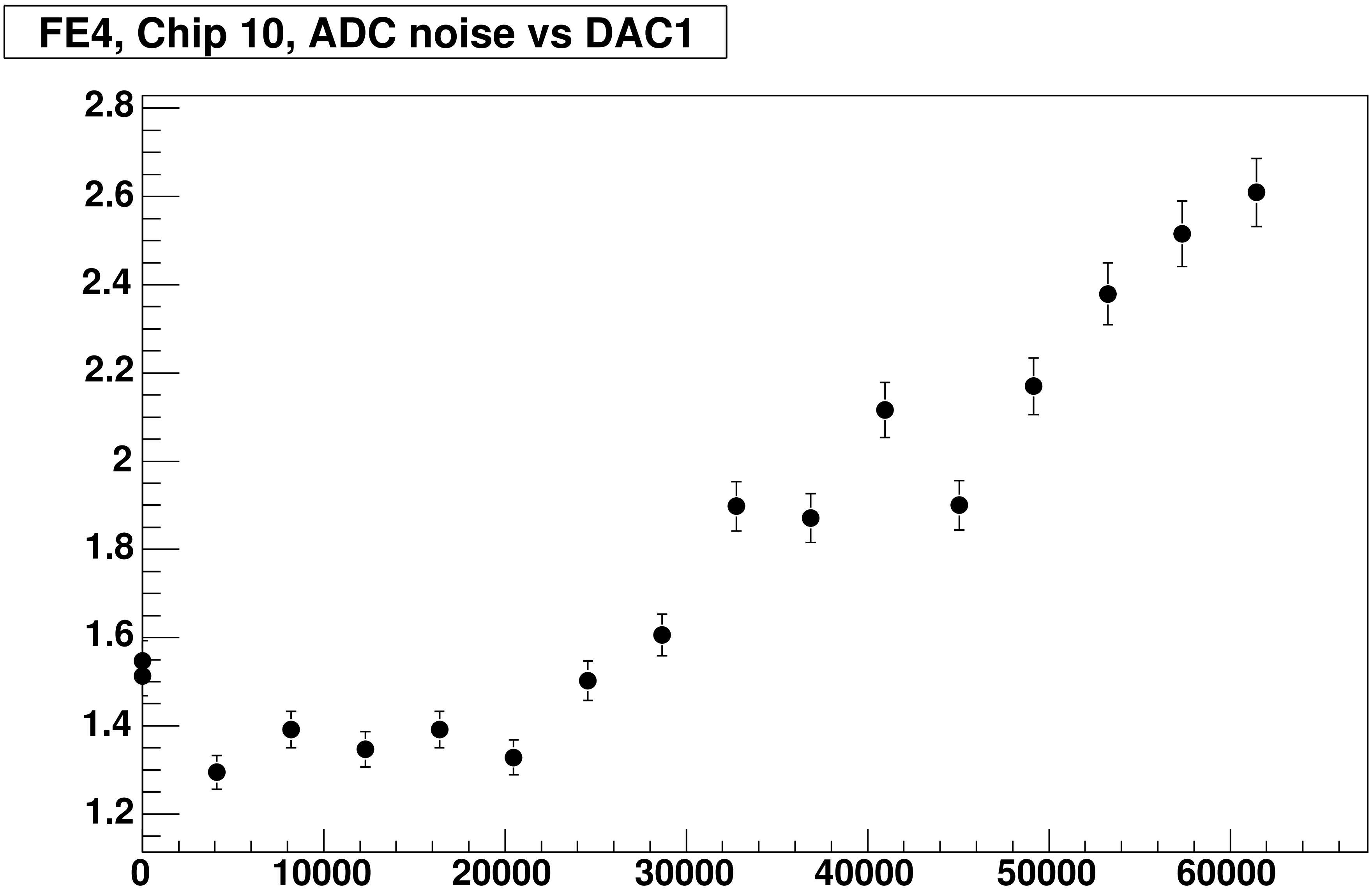

FE4, Chip 10, ADC mean vs DAC0
χ^2 / ndf 4.637 / 11
p0 28.23 ± 0.04146
p1 2.794e-06 ± 1.135e-06
28.5
28.45
28.4
28.35
28.3
28.25
28.2
28.15
0
10000
20000
30000
40000
50000
60000

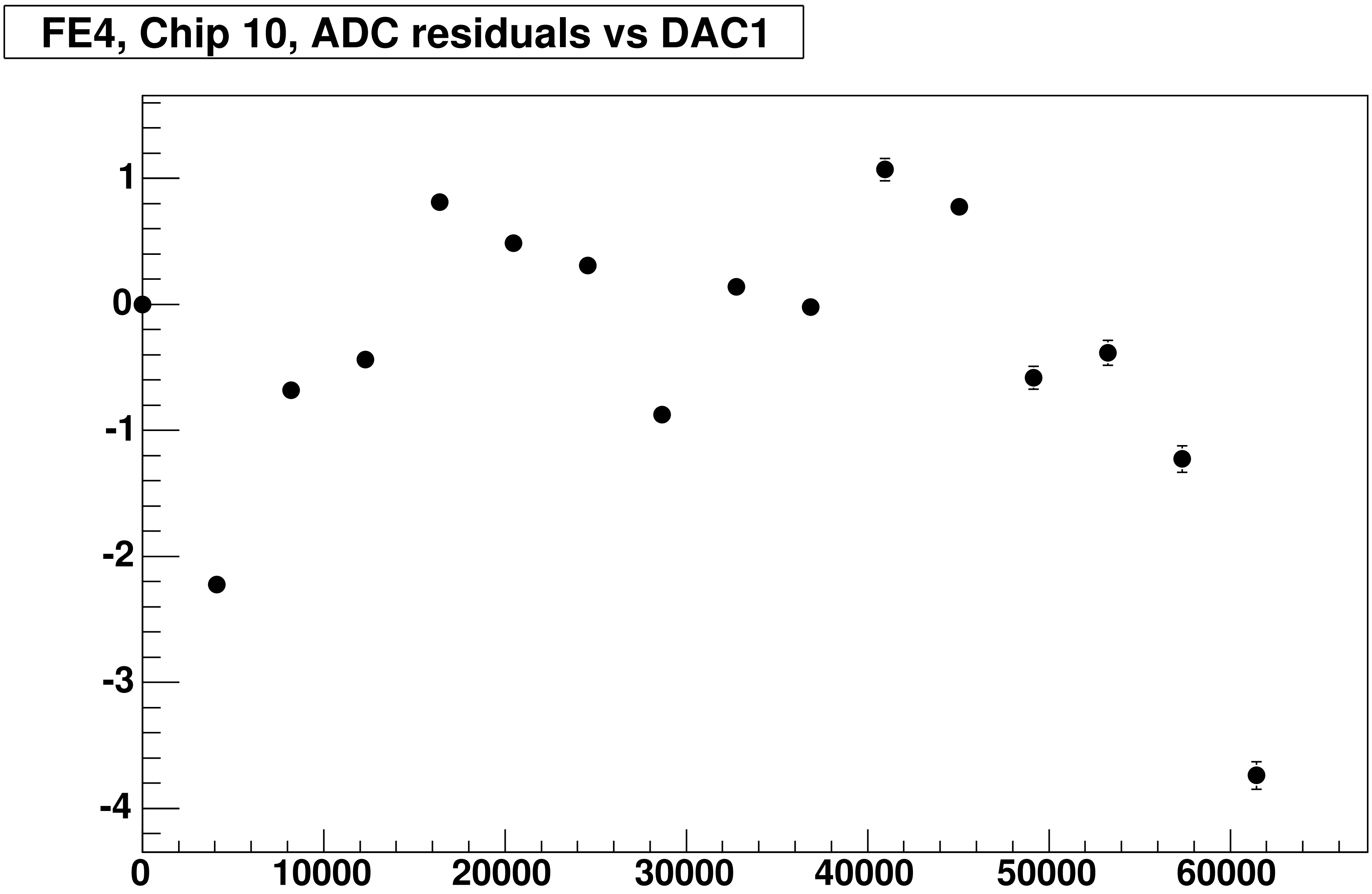
FE4, Chip 10, ADC noise vs DAC0

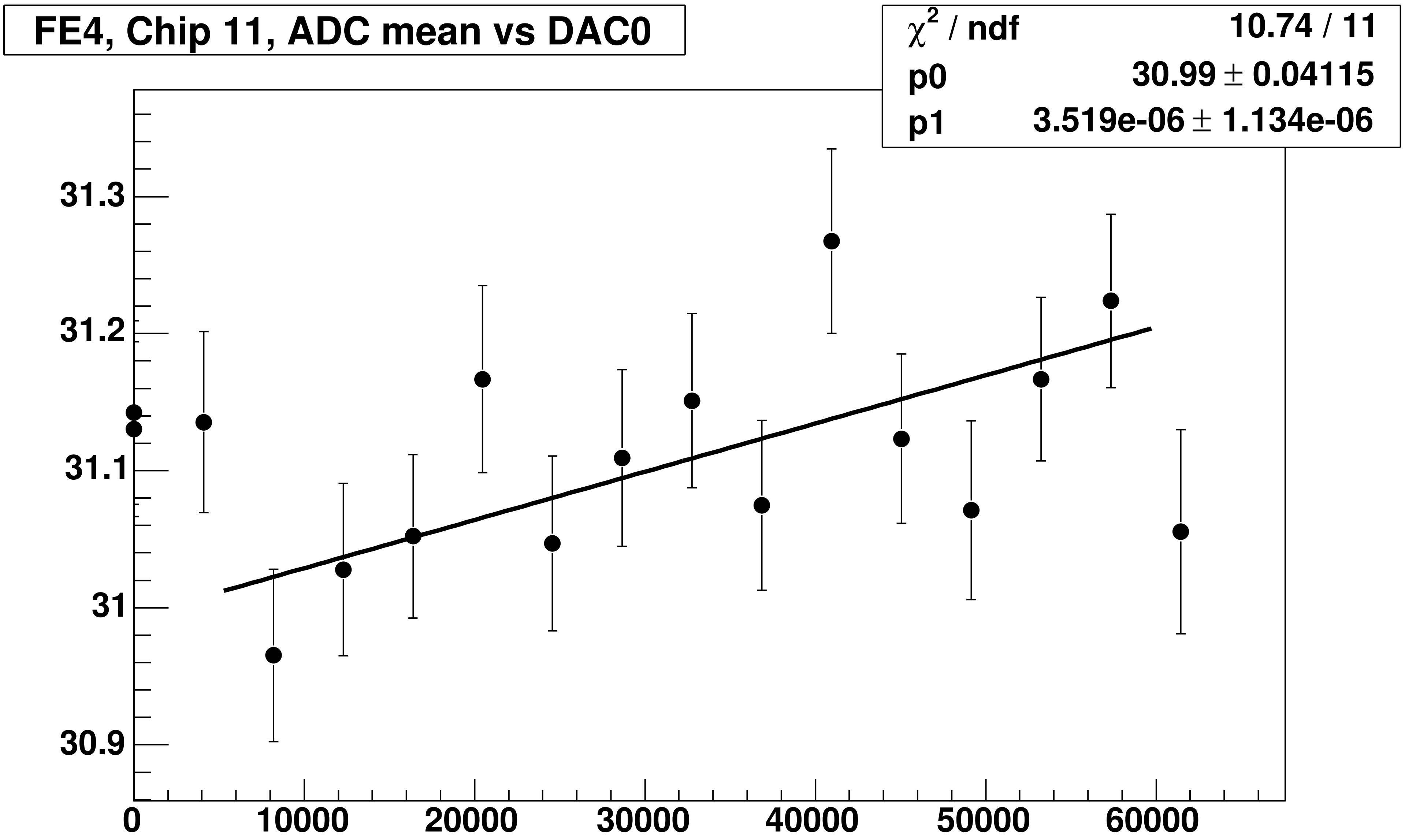


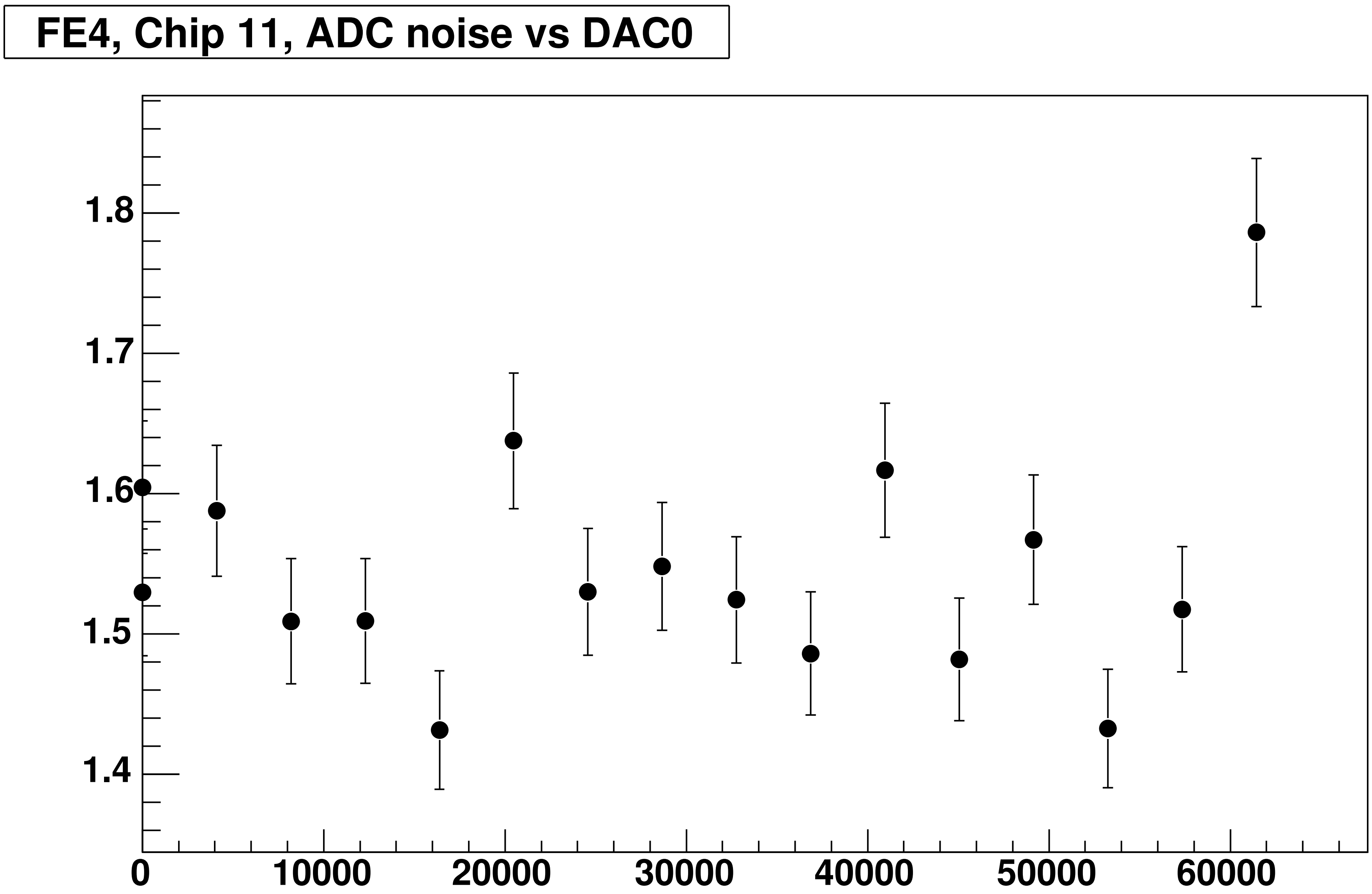

FE4, Chip 10, ADC residuals vs DAC0
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

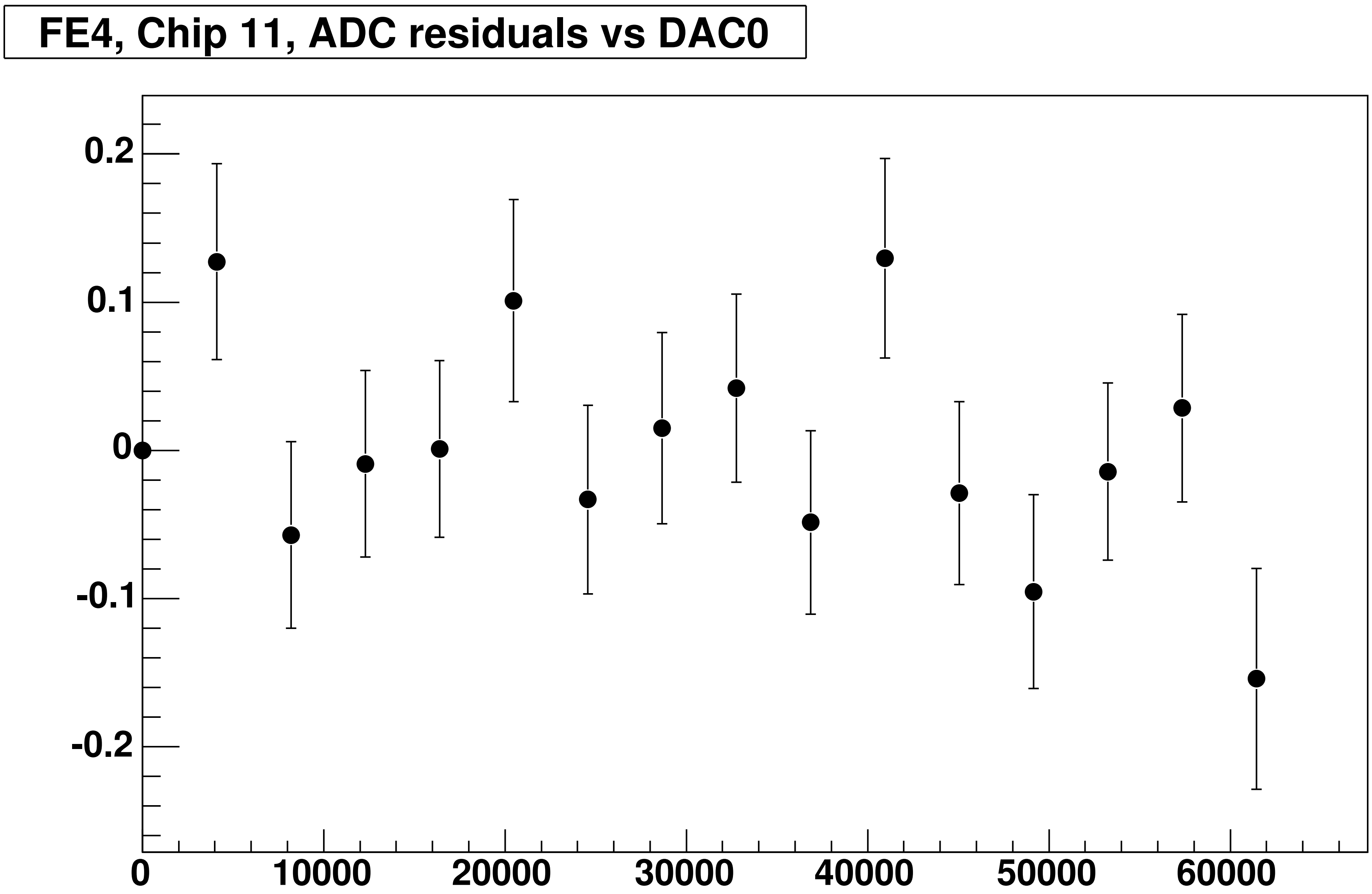

FE4, Chip 10, ADC mean vs DAC1
χ² / ndf 1107 / 11
p0 30.77 ± 0.0415
p1 0.4515 ± 1.366e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

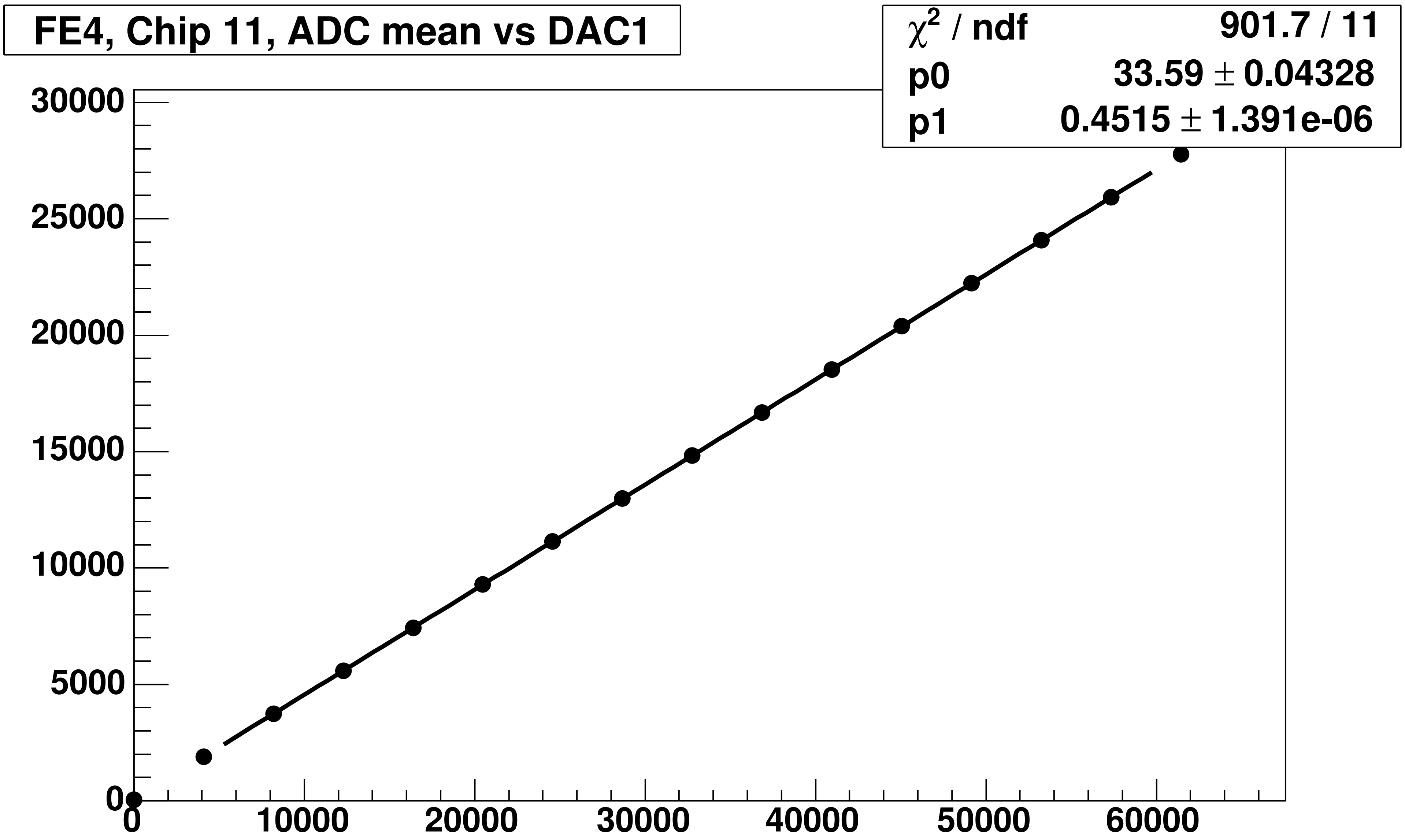

FE4, Chip 10, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

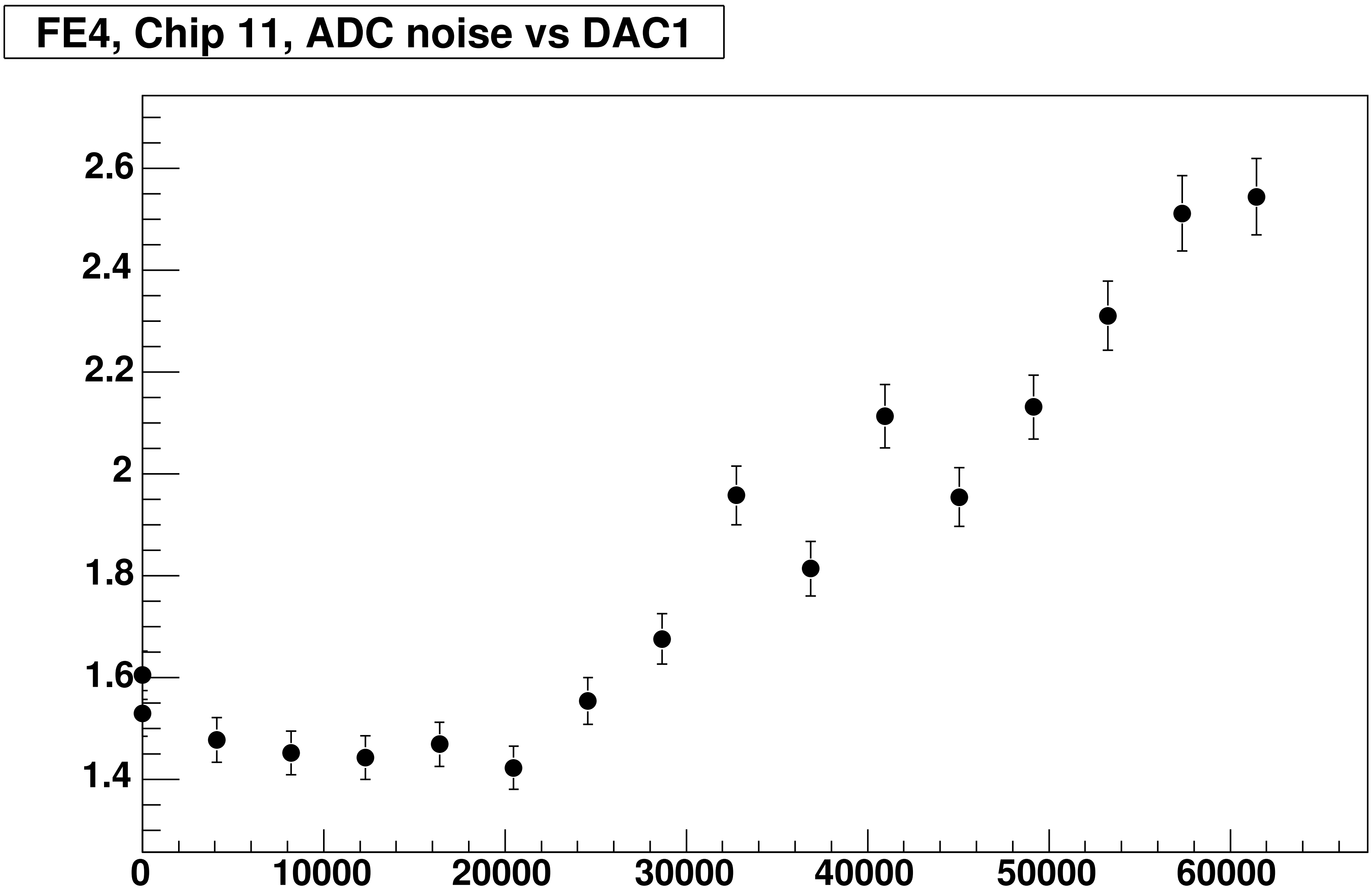

FE4, Chip 11, ADC mean vs DAC0
χ^2 / ndf 10.74 / 11
p0 30.99 ± 0.04115
p1 3.519e-06 ± 1.134e-06
31.3
31.2
31.1
31
30.9
0
10000
20000
30000
40000
50000
60000

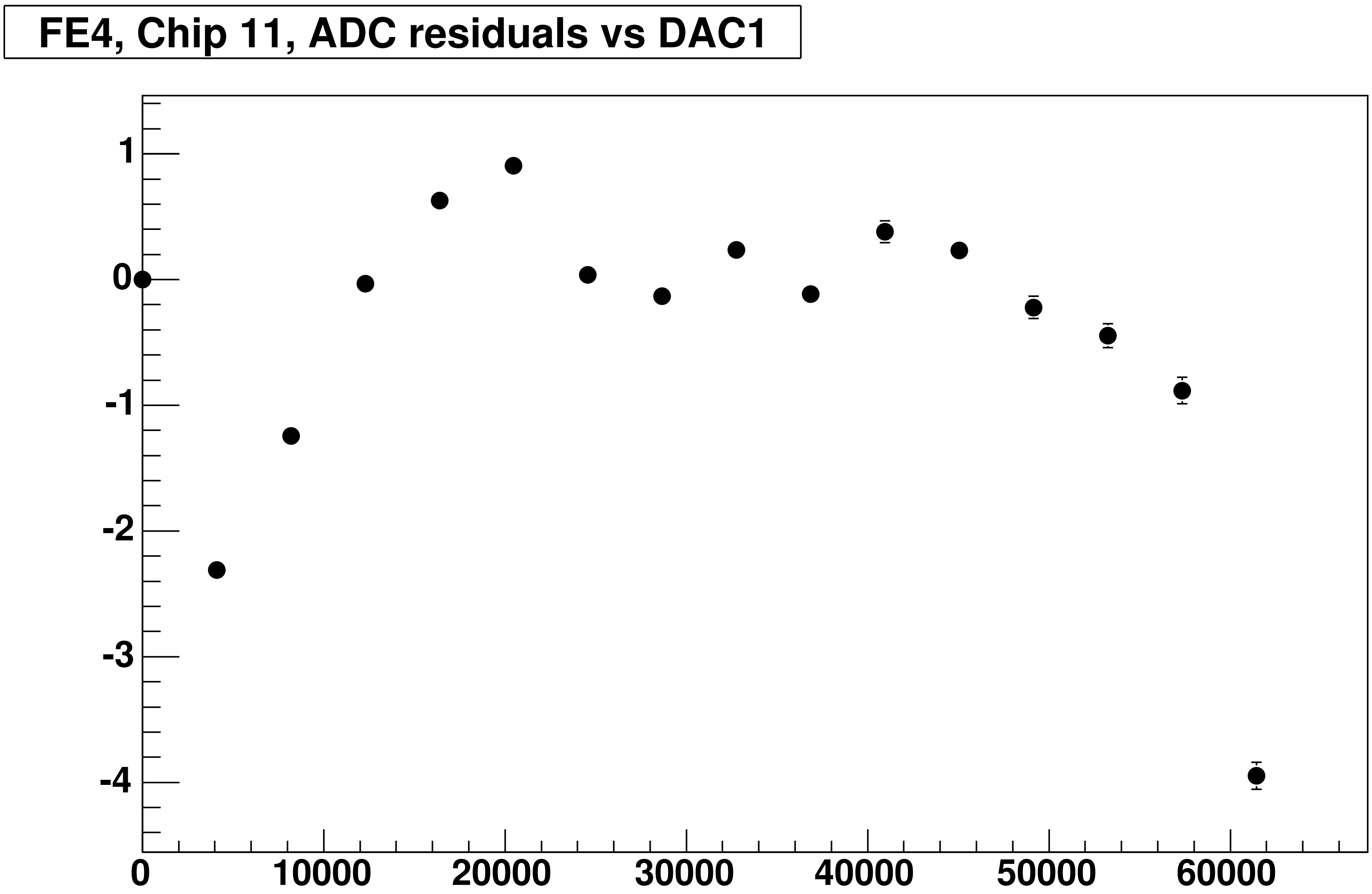

FE4, Chip 11, ADC noise vs DAC0
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000


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

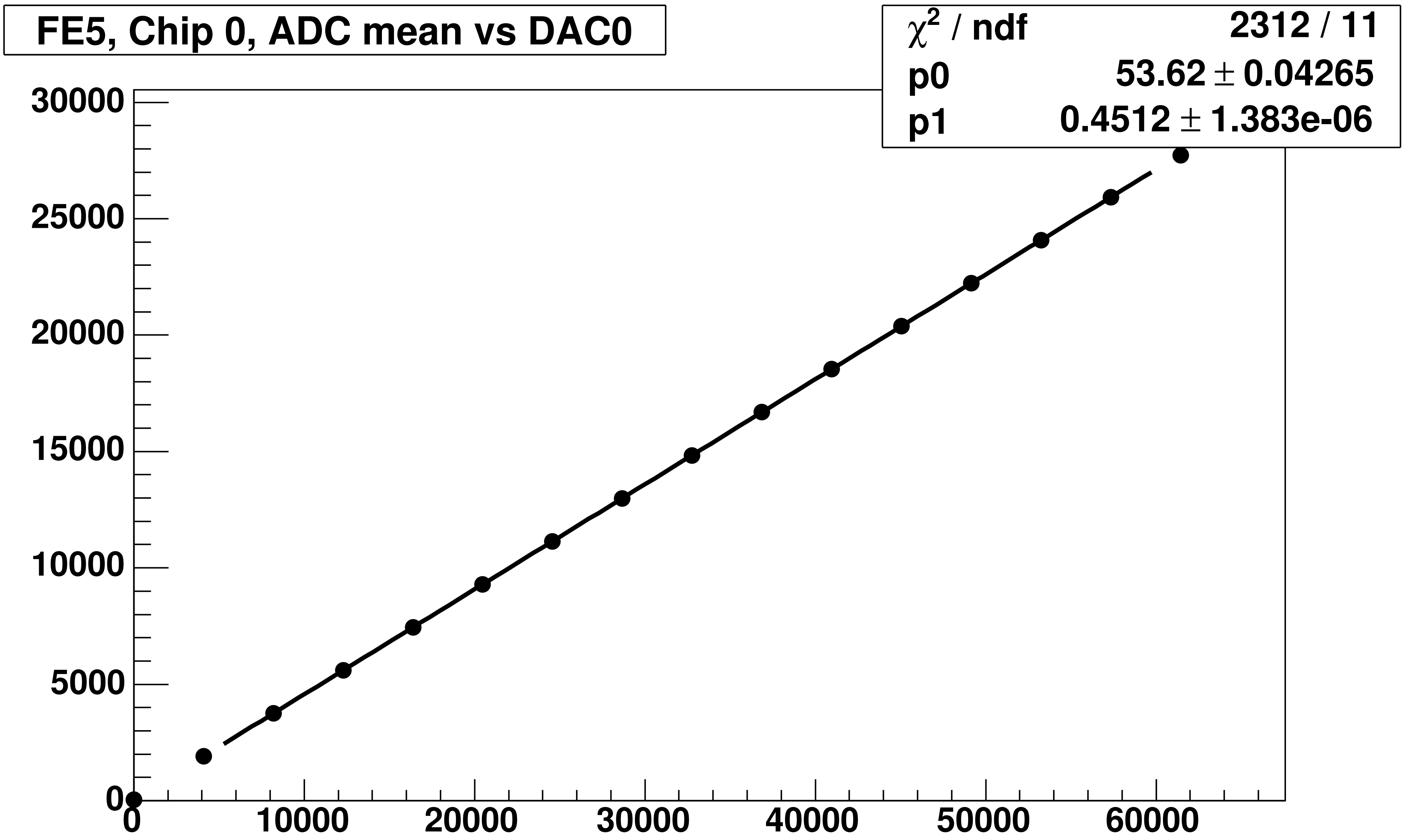


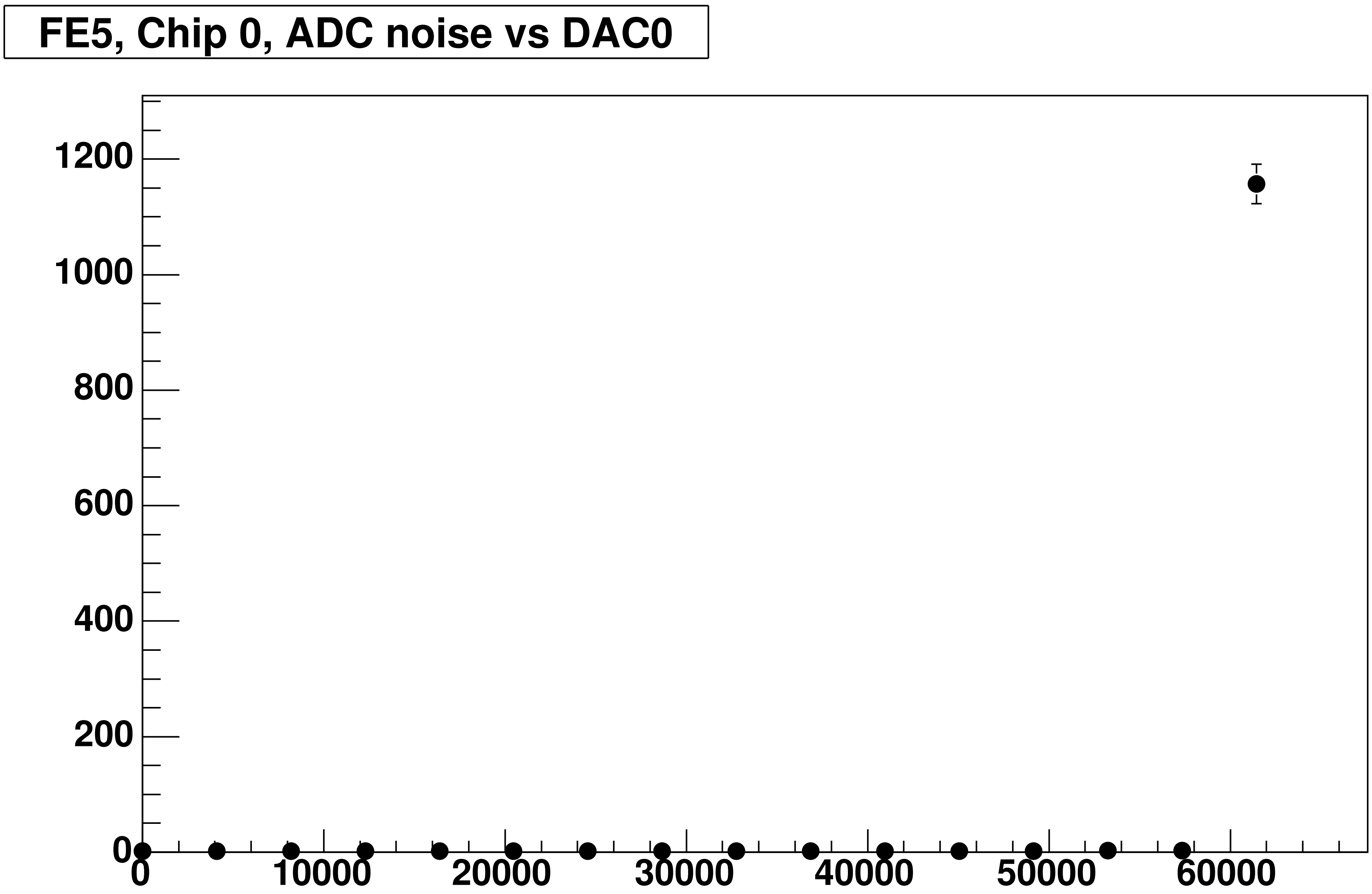
FE4, Chip 11, ADC mean vs DAC1
χ^2 / ndf 901.7 / 11
p0 33.59 ± 0.04328
p1 0.4515 ± 1.391e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

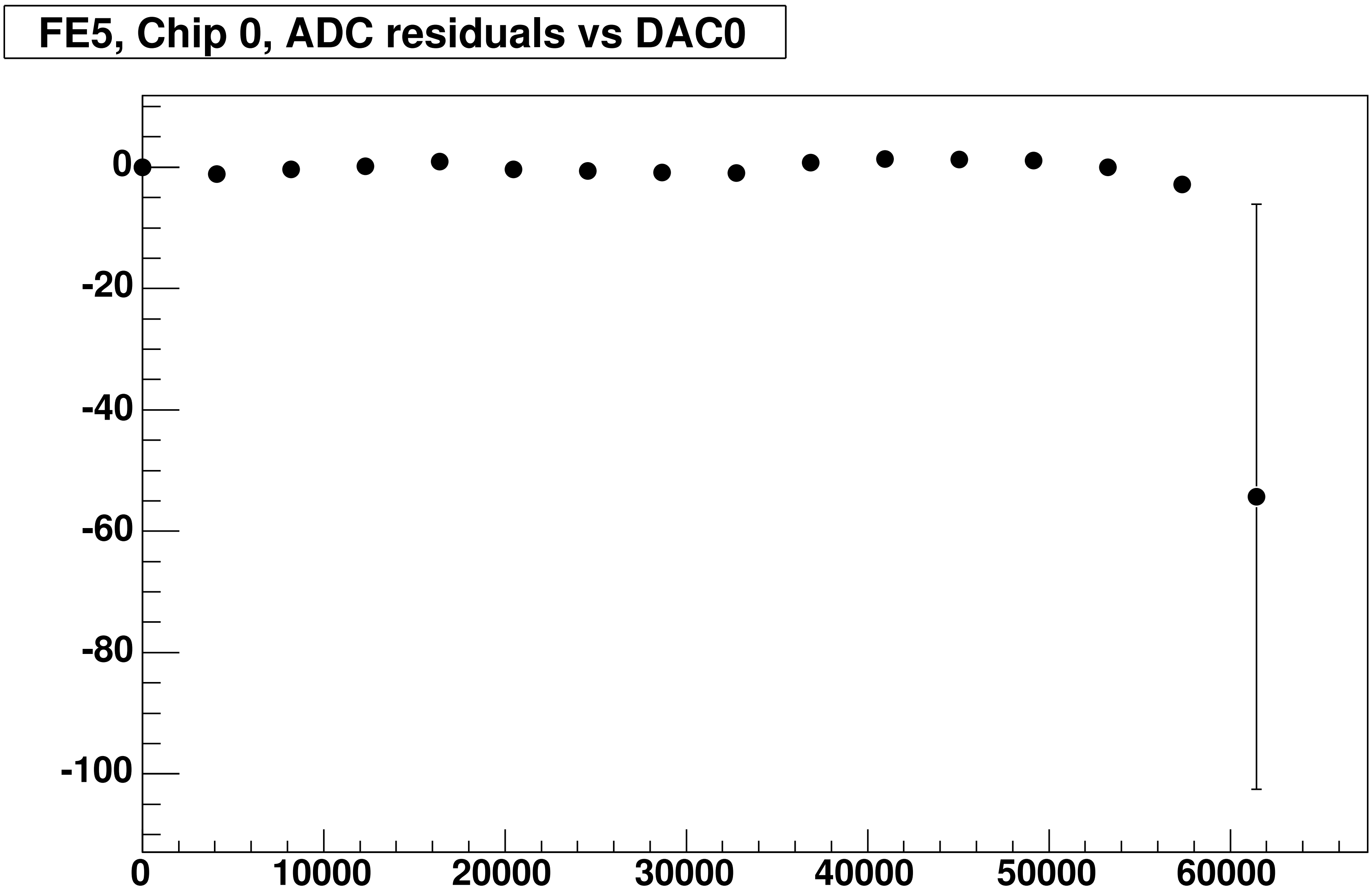

FE4, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



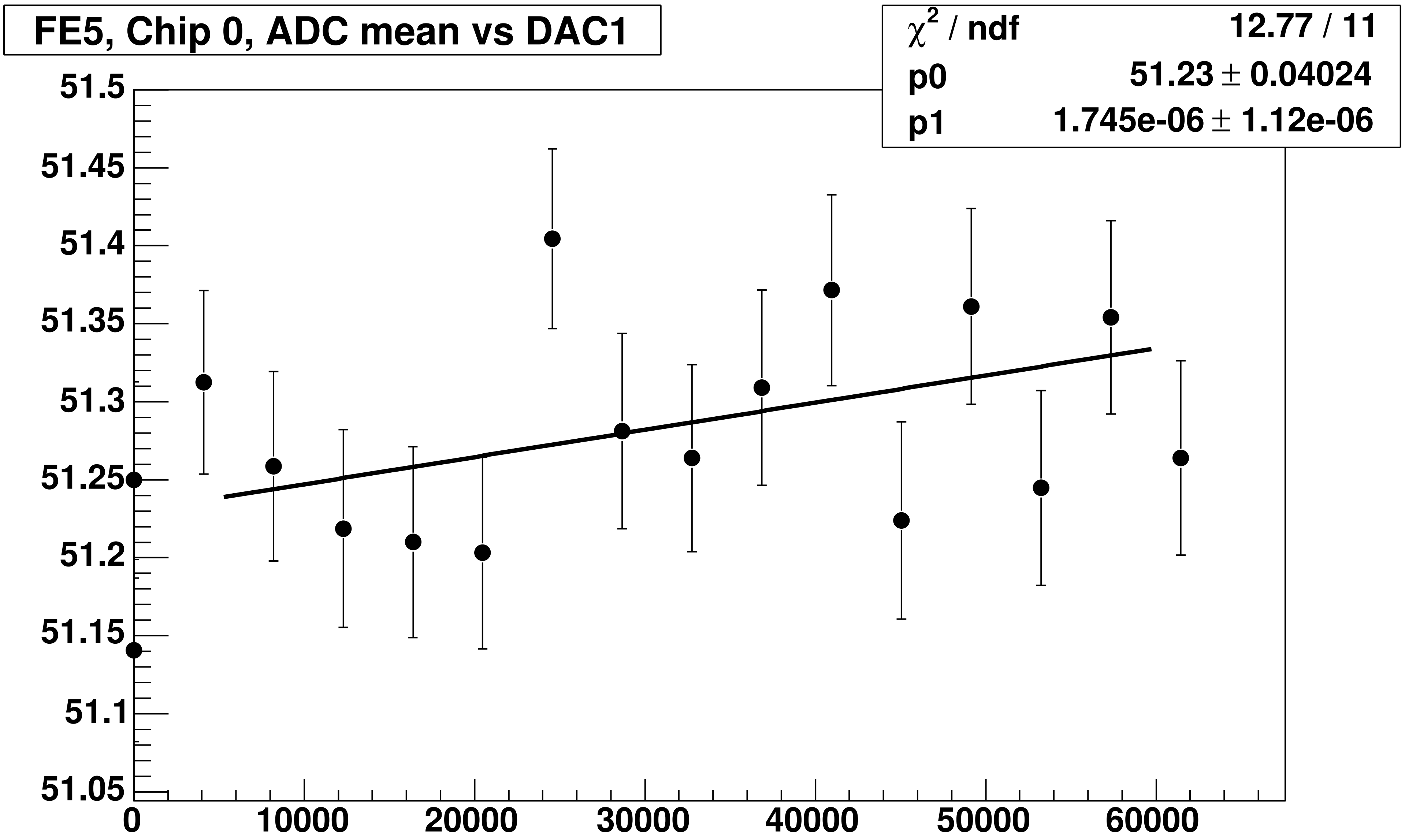
FE4, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000


FE5, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2312 / 11
p0 53.62 ± 0.04265
p1 0.4512 ± 1.383e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

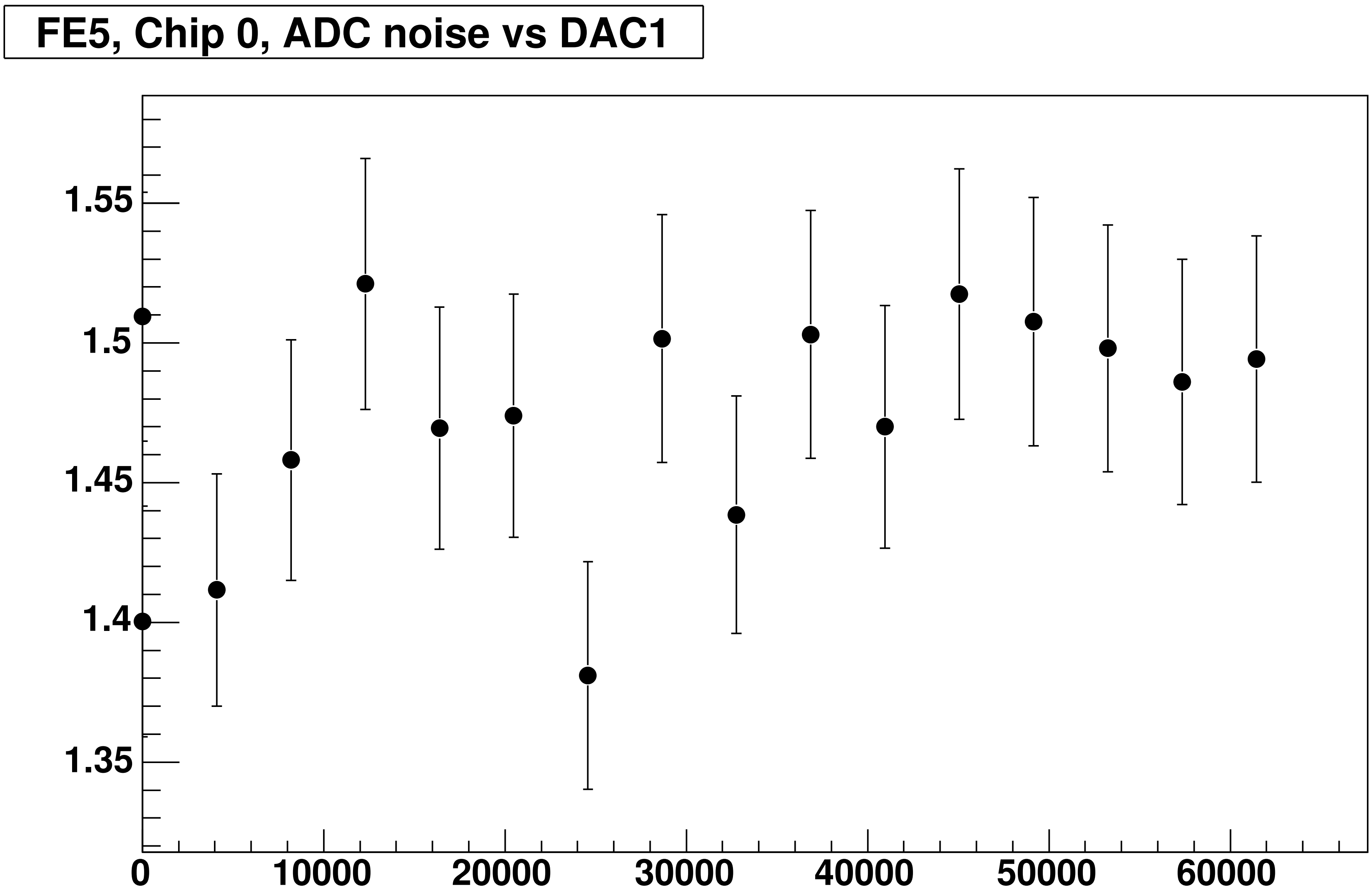

FE5, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



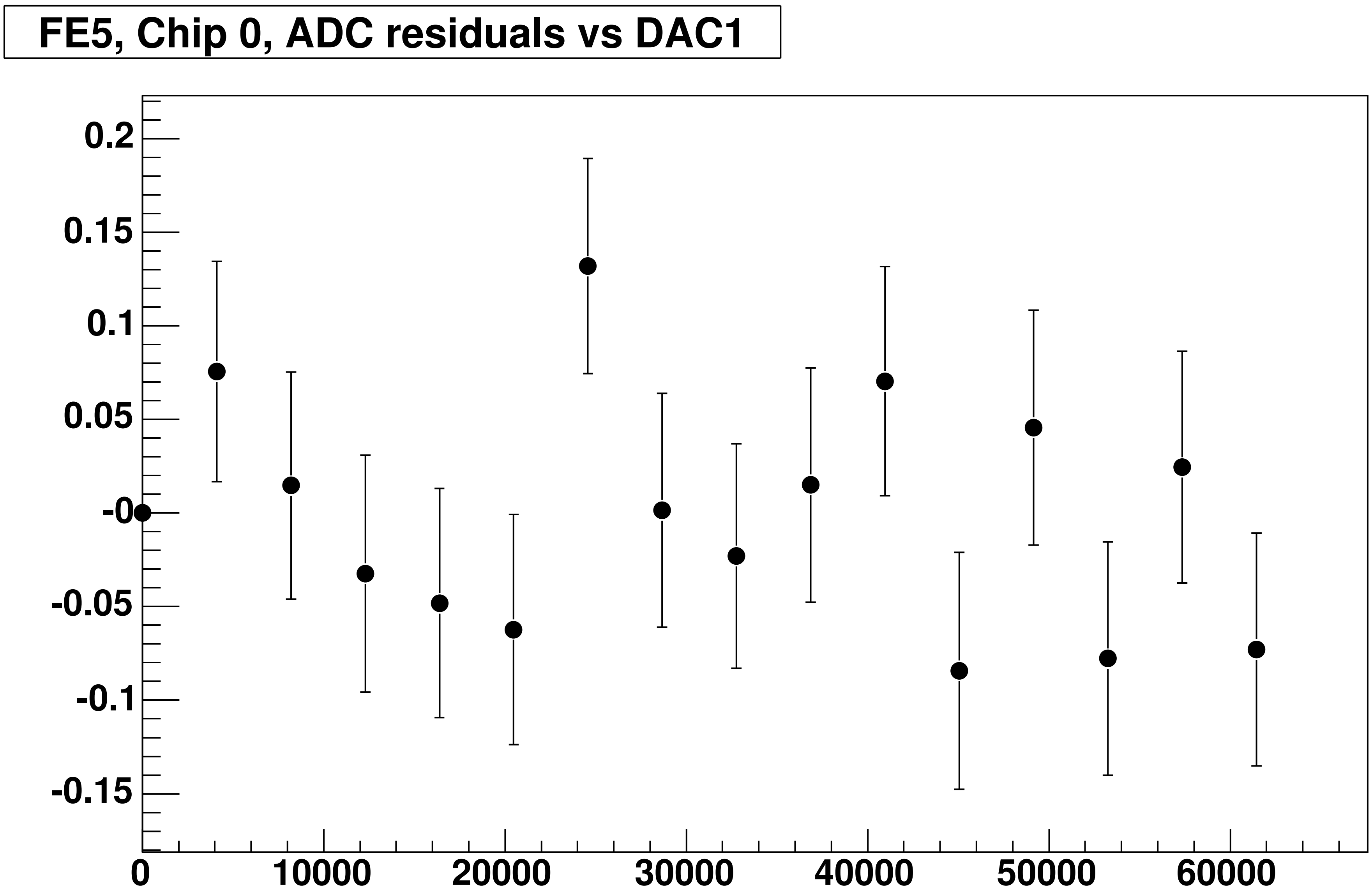
FE5, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

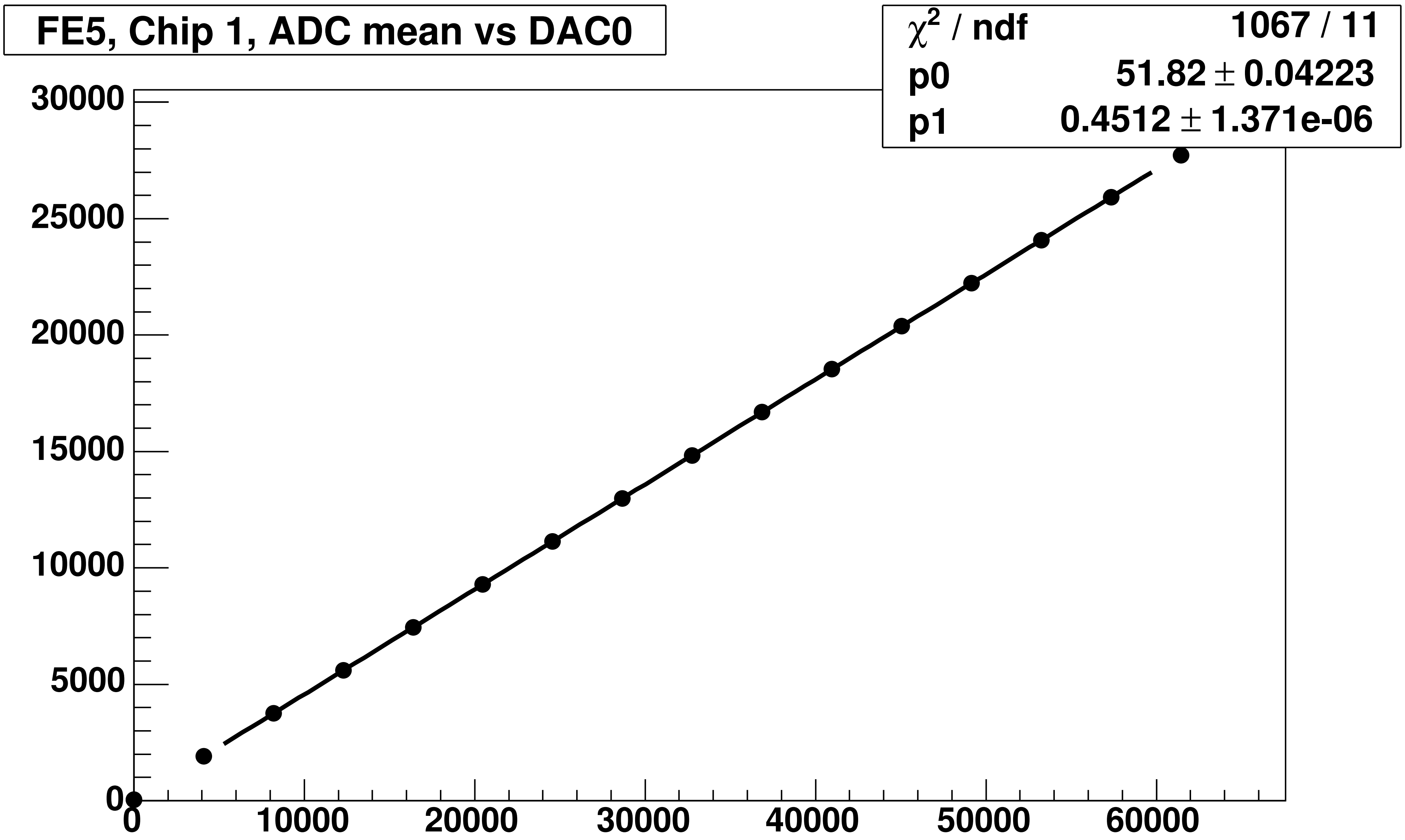


FE5, Chip 0, ADC mean vs DAC1
χ^2 / ndf 12.77 / 11
p0 51.23 ± 0.04024
p1 1.745e-06 ± 1.12e-06
51.5
51.45
51.4
51.35
51.3
51.25
51.2
51.15
51.1
51.05
0
10000
20000
30000
40000
50000
60000

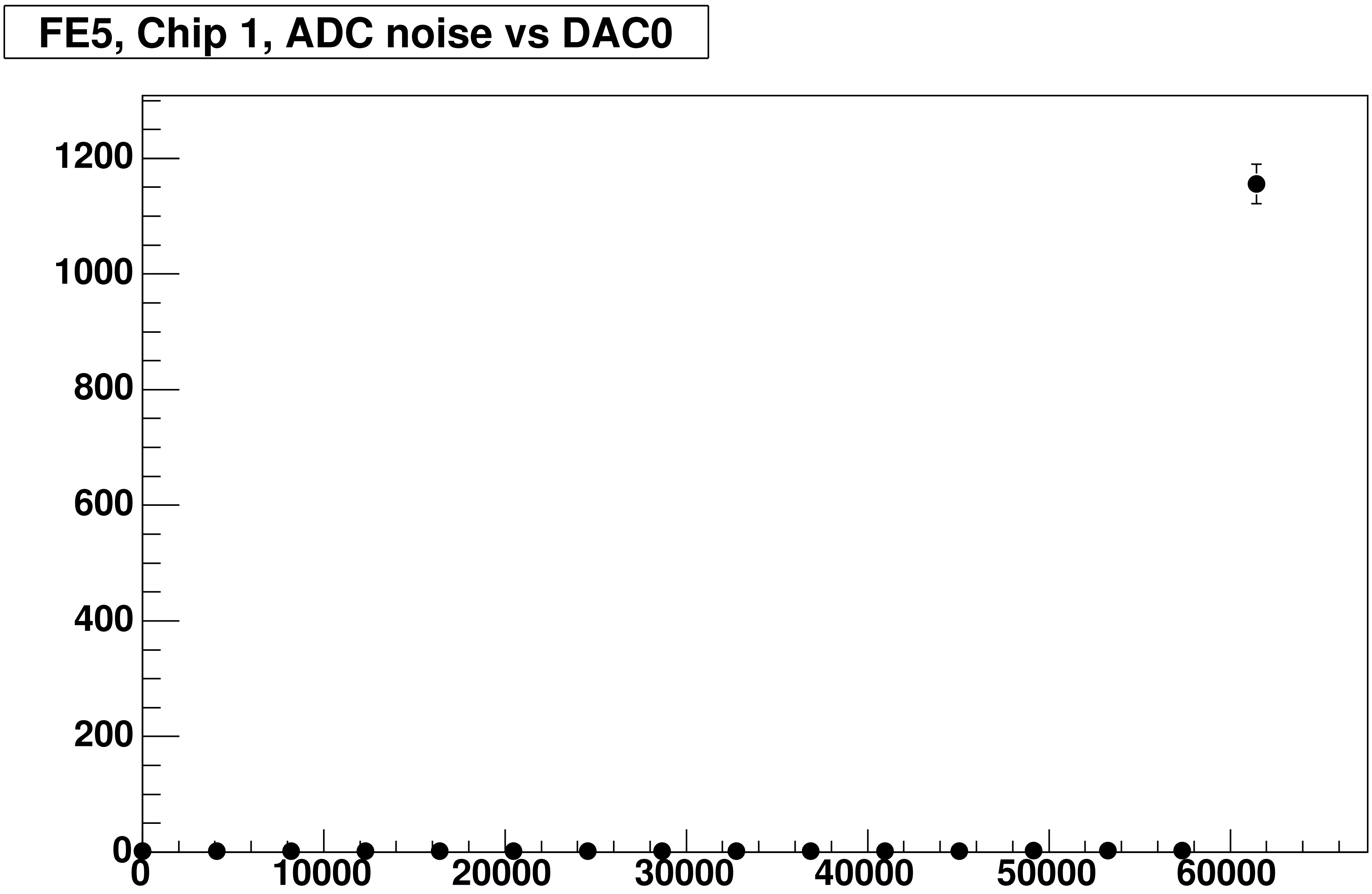


FE5, Chip 0, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

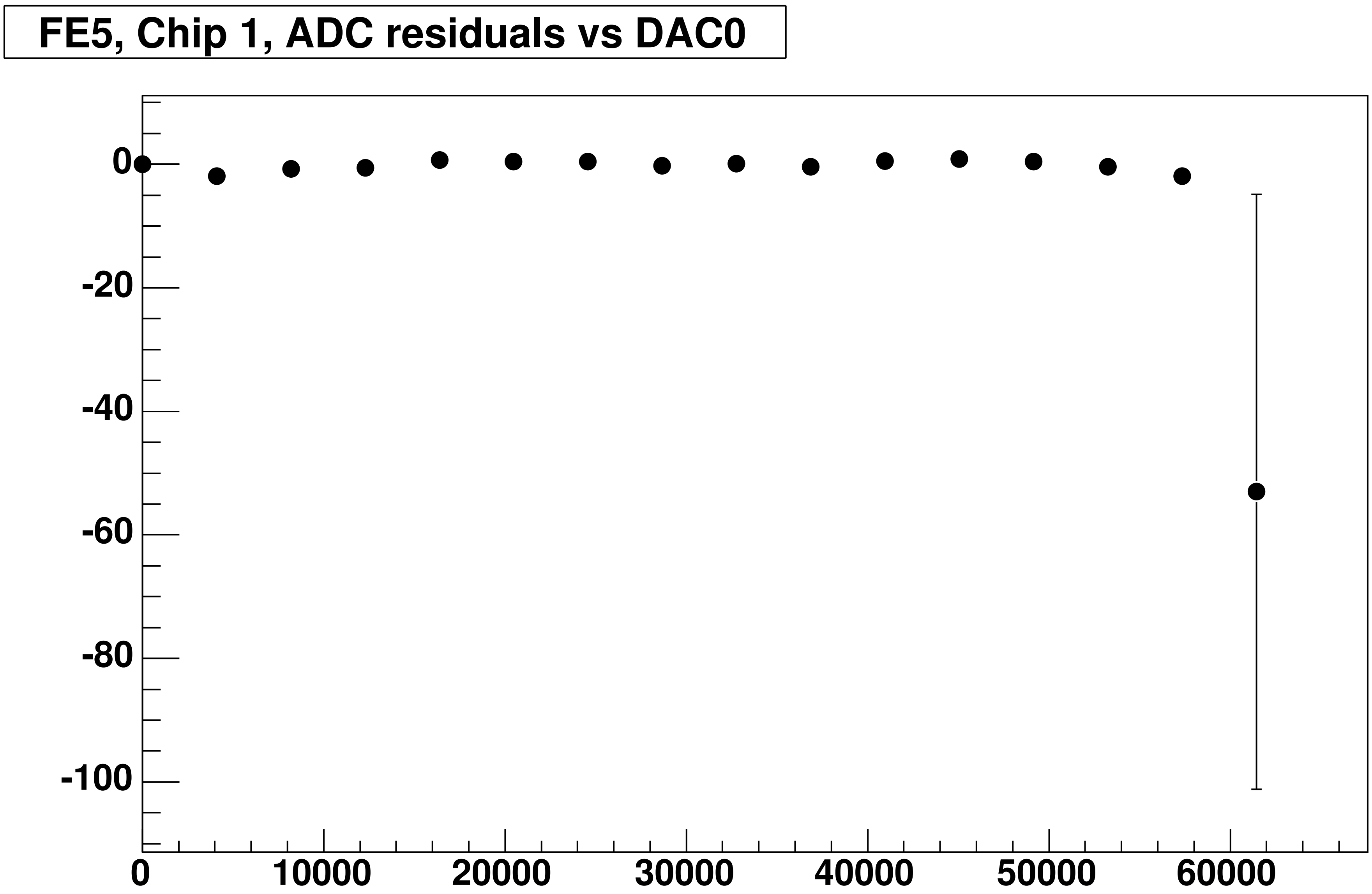

FE5, Chip 0, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

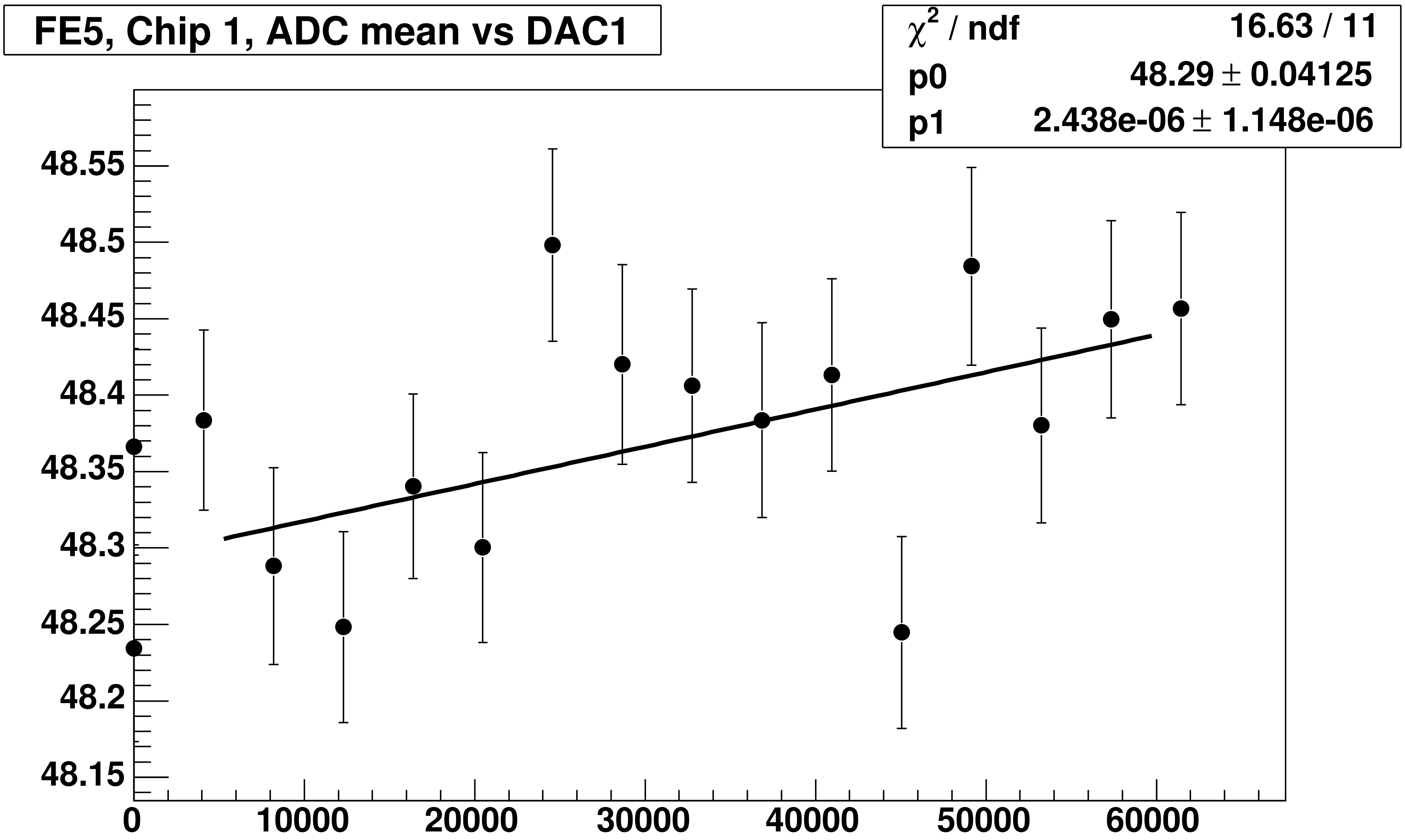


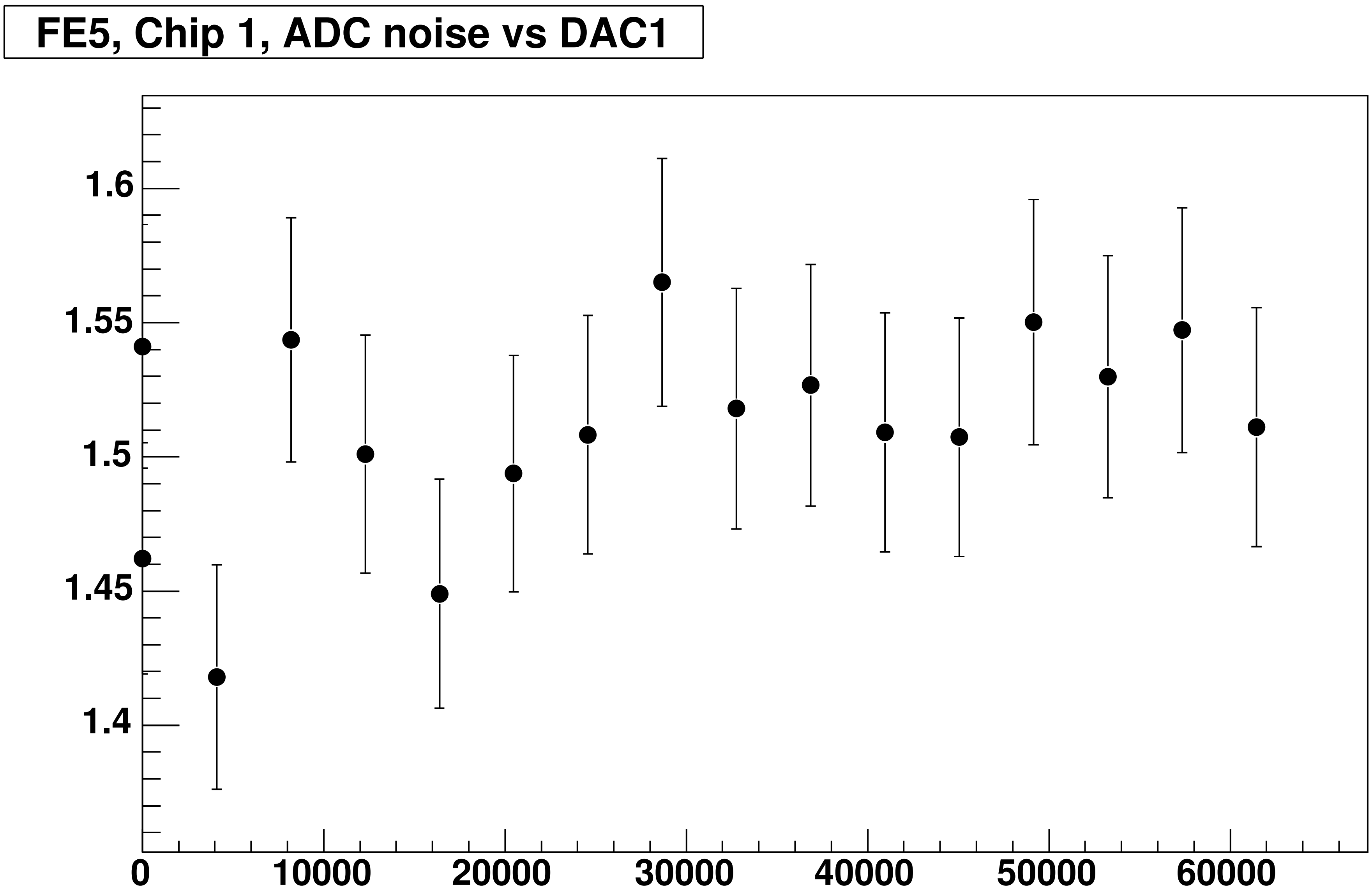
FE5, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1067 / 11
p0 51.82 ± 0.04223
p1 0.4512 ± 1.371e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

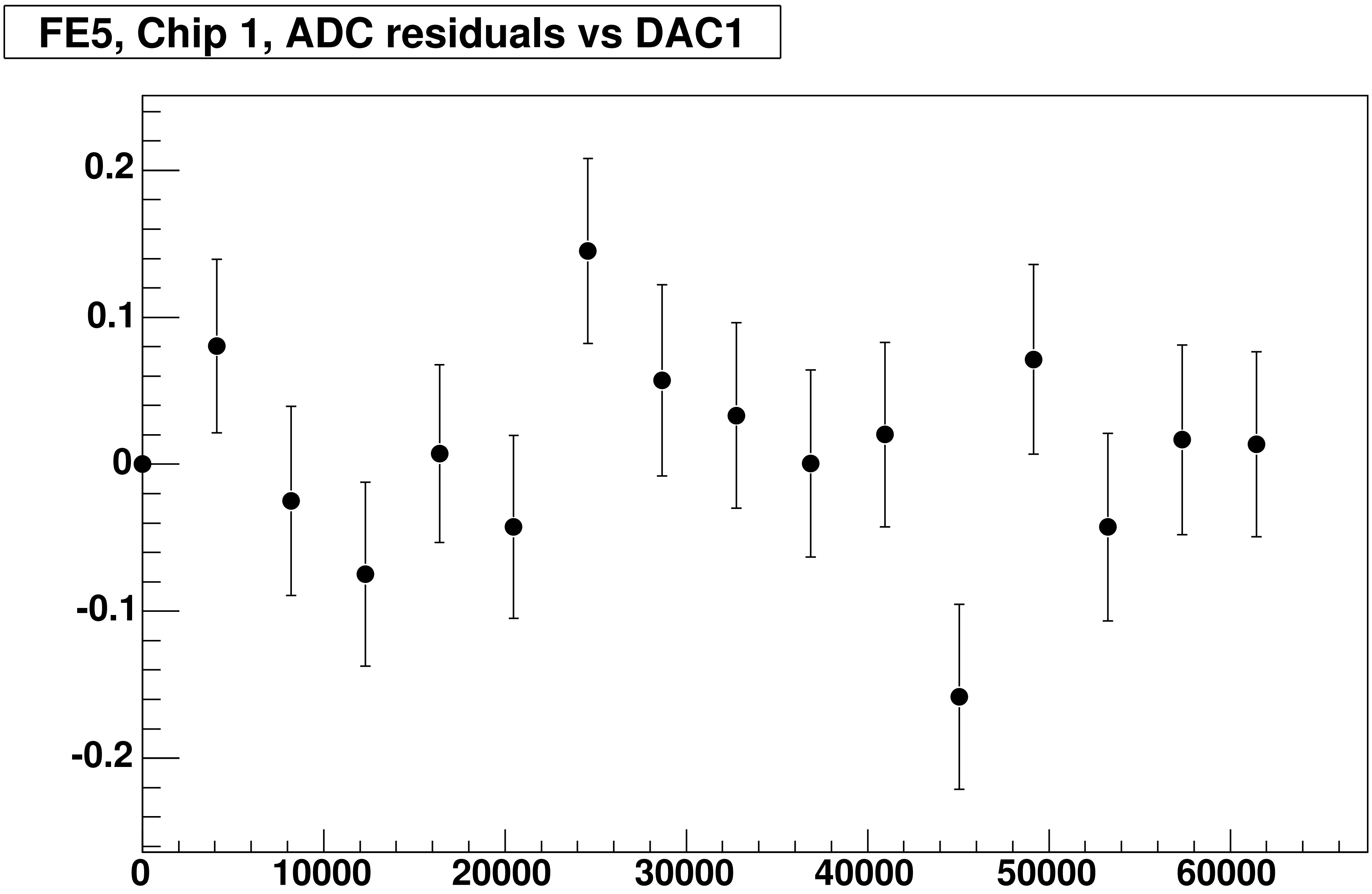


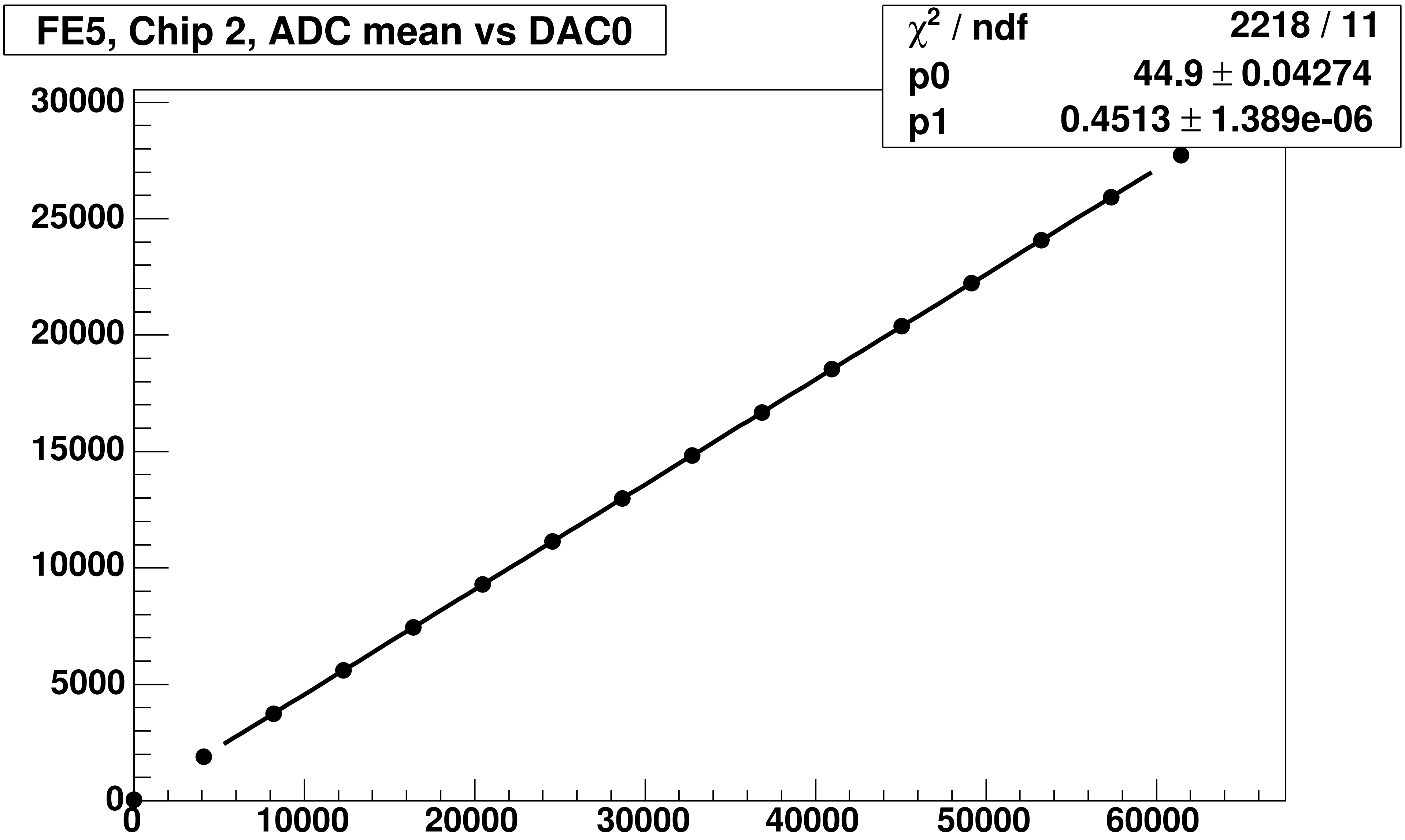
FE5, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

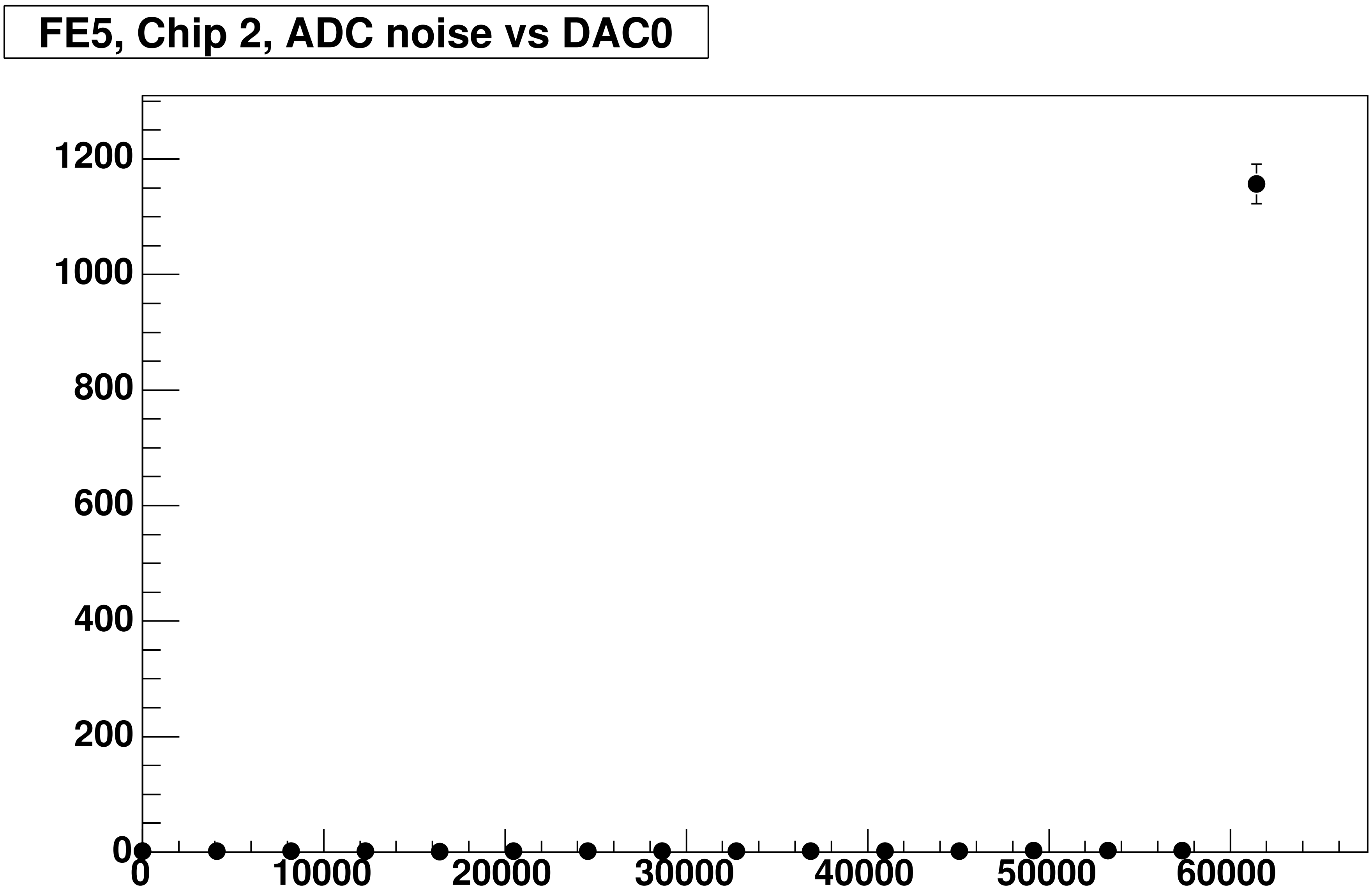

FE5, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

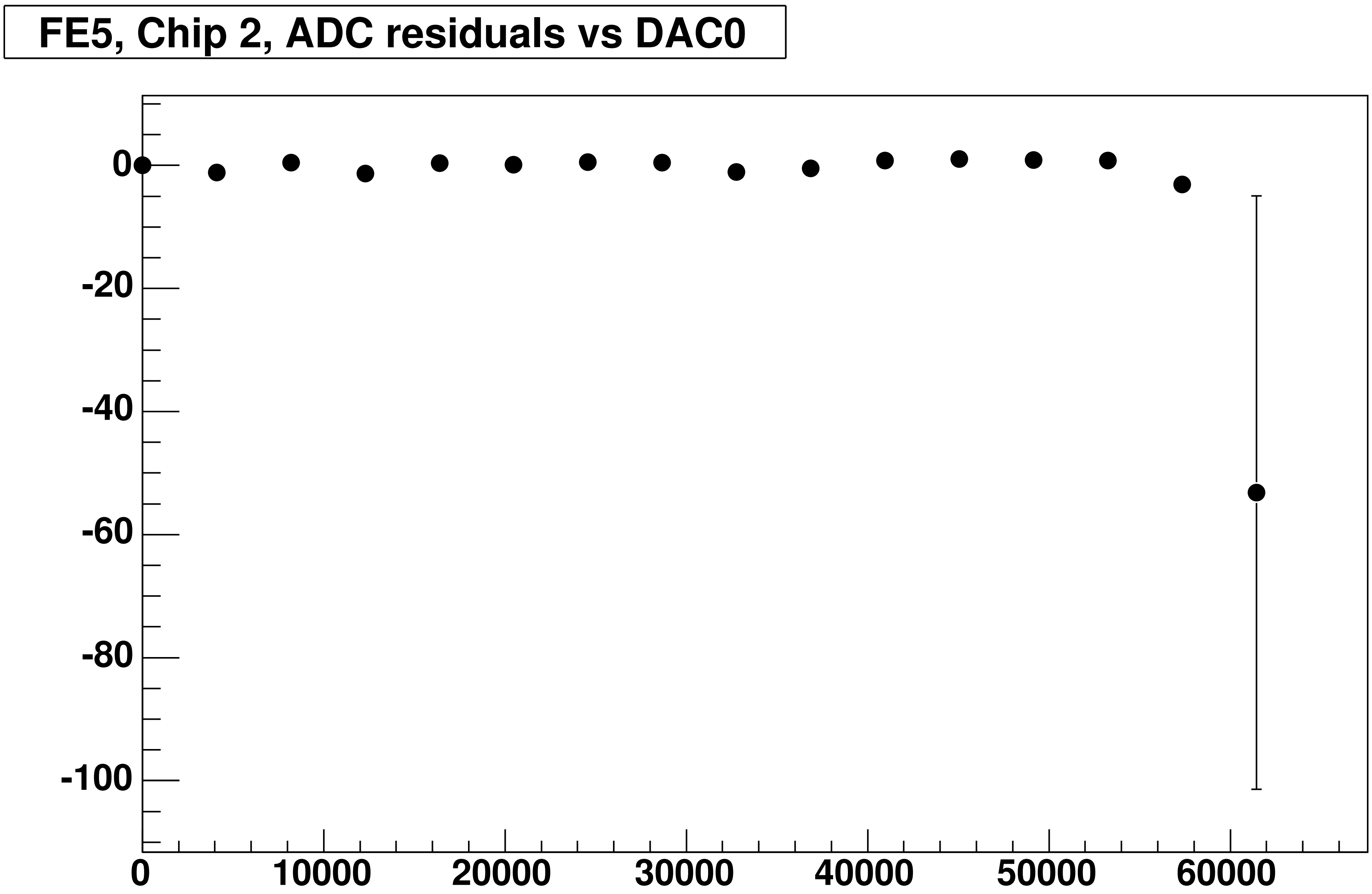

FE5, Chip 1, ADC mean vs DAC1
χ² / ndf 16.63 / 11
p0 48.29 ± 0.04125
p1 2.438e-06 ± 1.148e-06
48.55
48.5
48.45
48.4
48.35
48.3
48.25
48.2
48.15
0
10000
20000
30000
40000
50000
60000

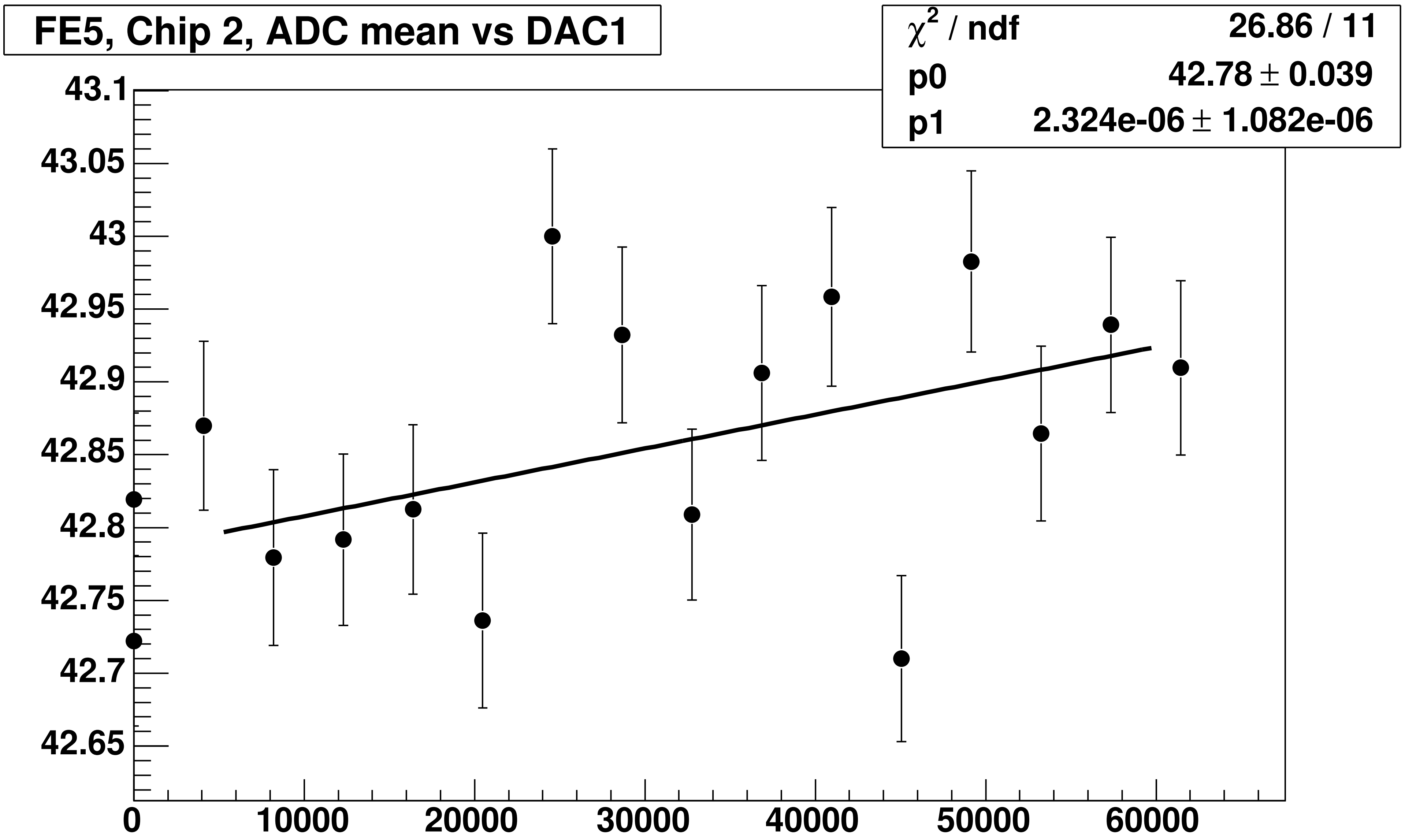

FE5, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


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

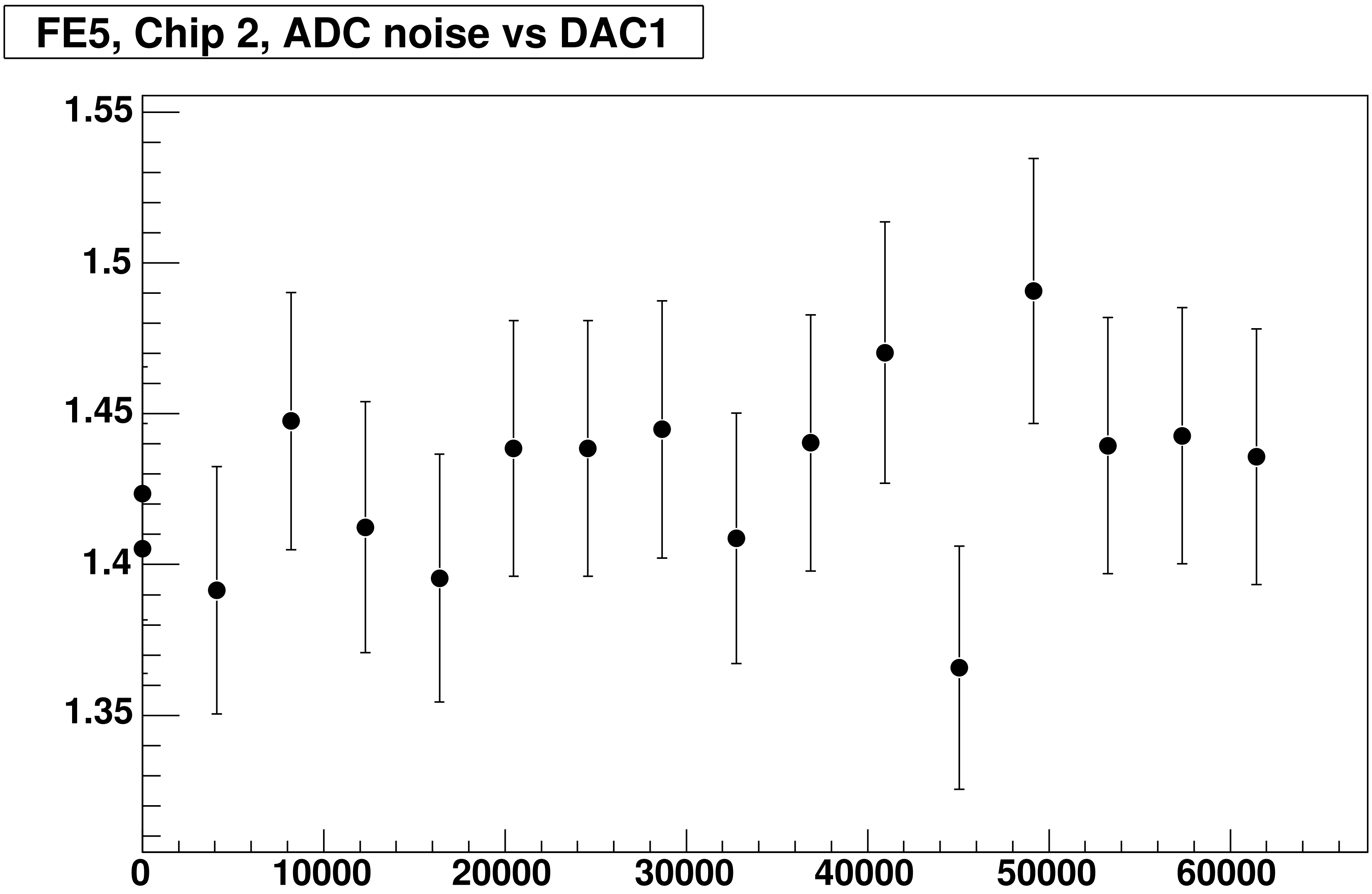

FE5, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2218 / 11
p0 44.9 ± 0.04274
p1 0.4513 ± 1.389e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

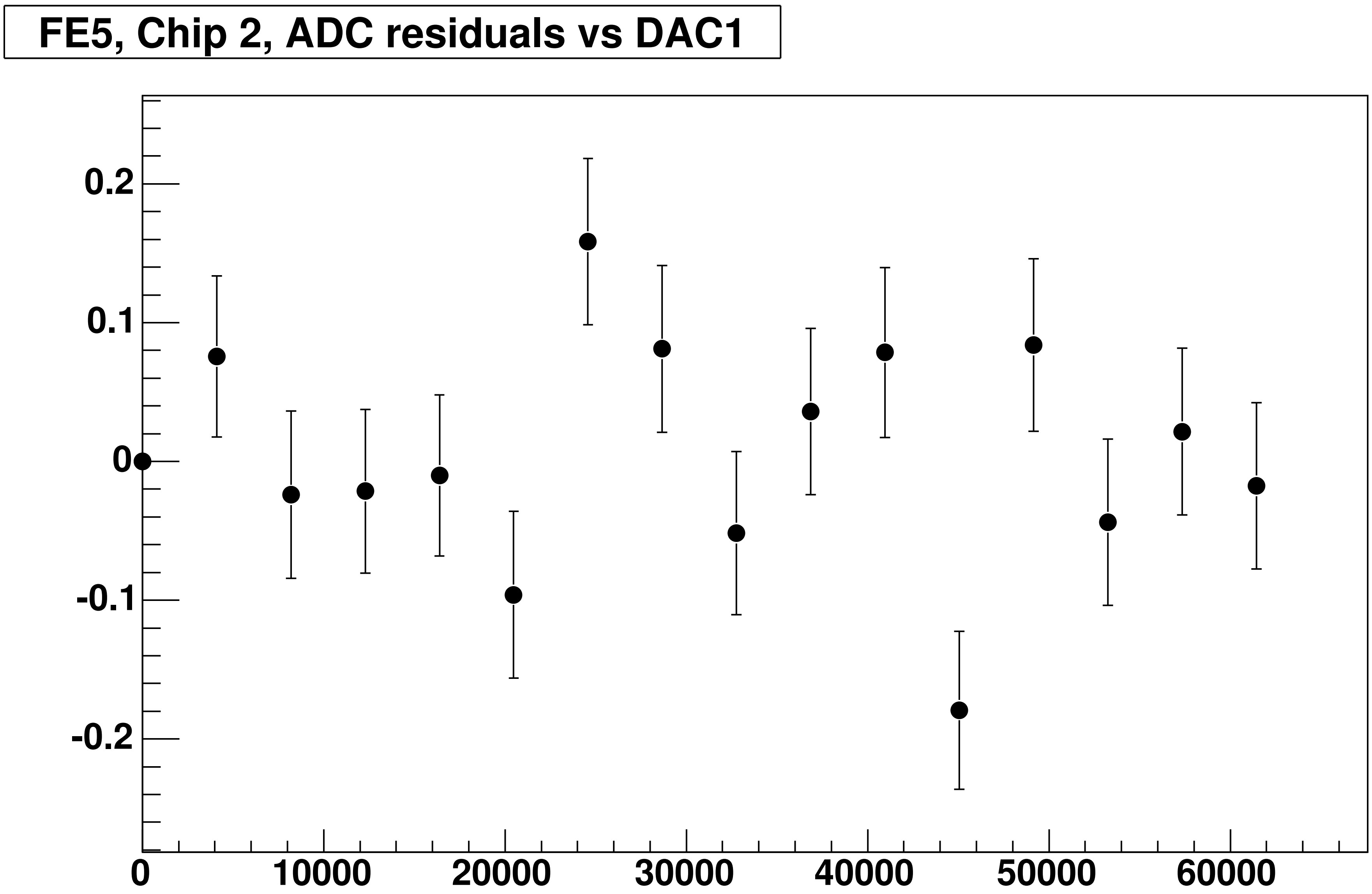

FE5, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

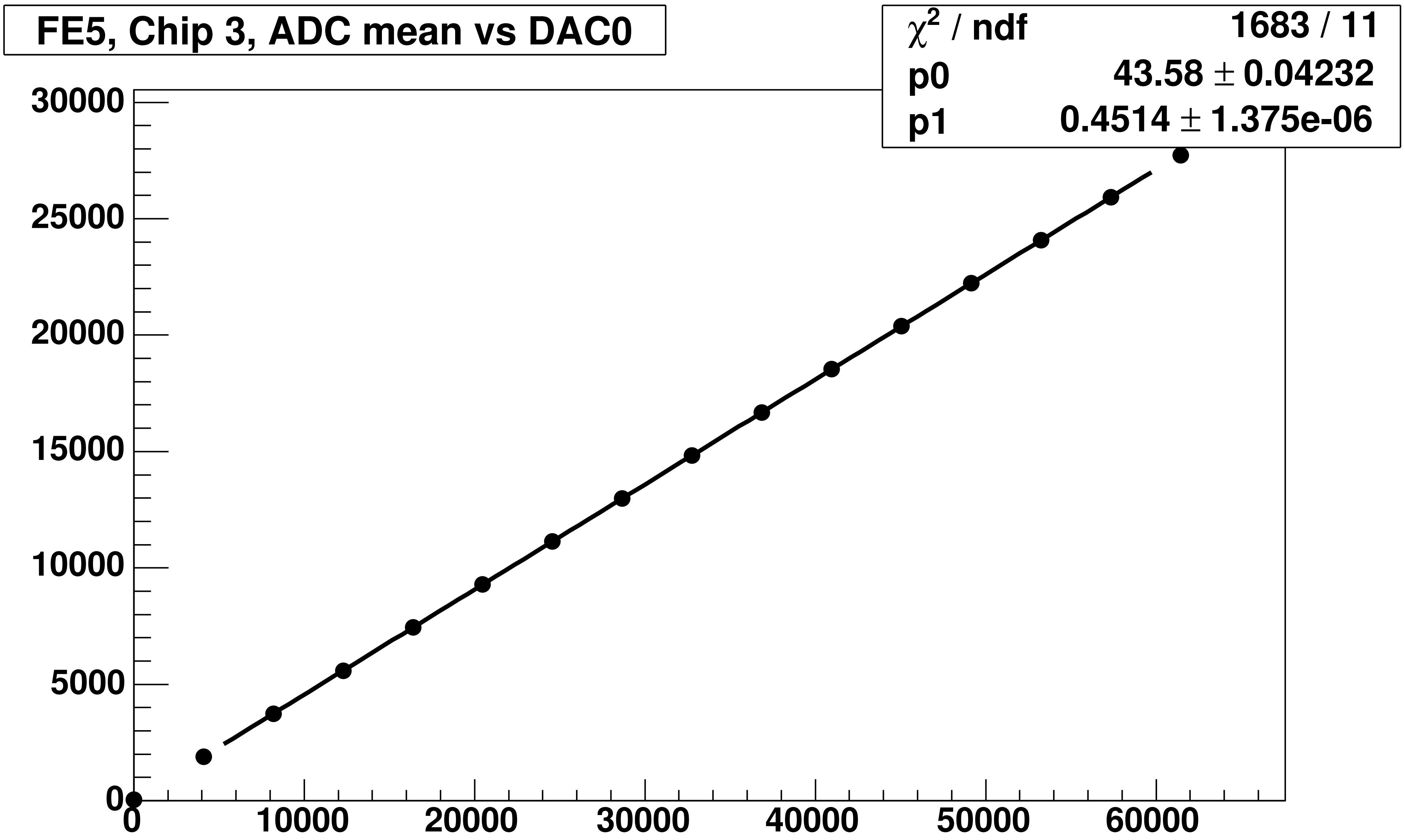

FE5, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

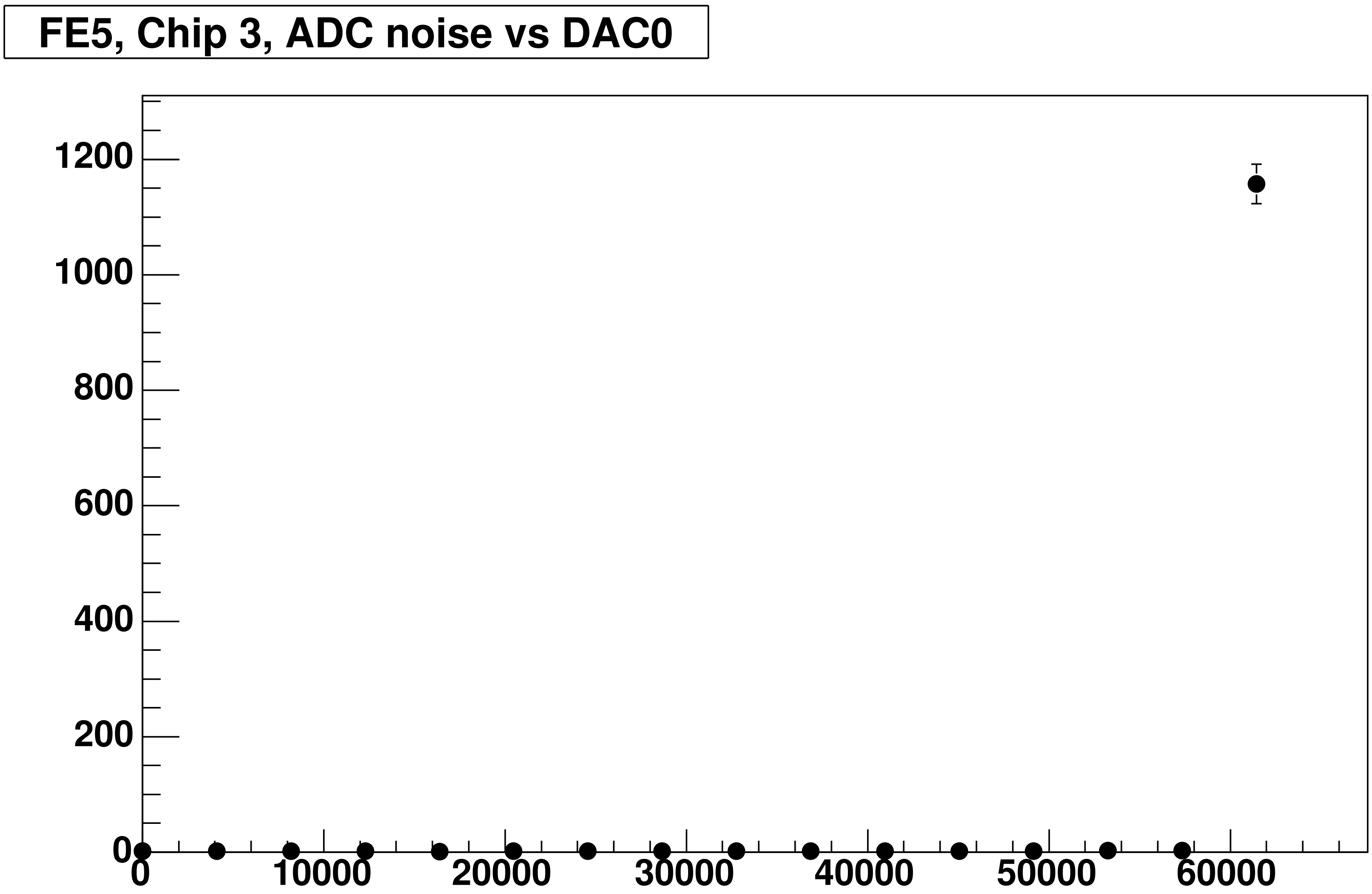


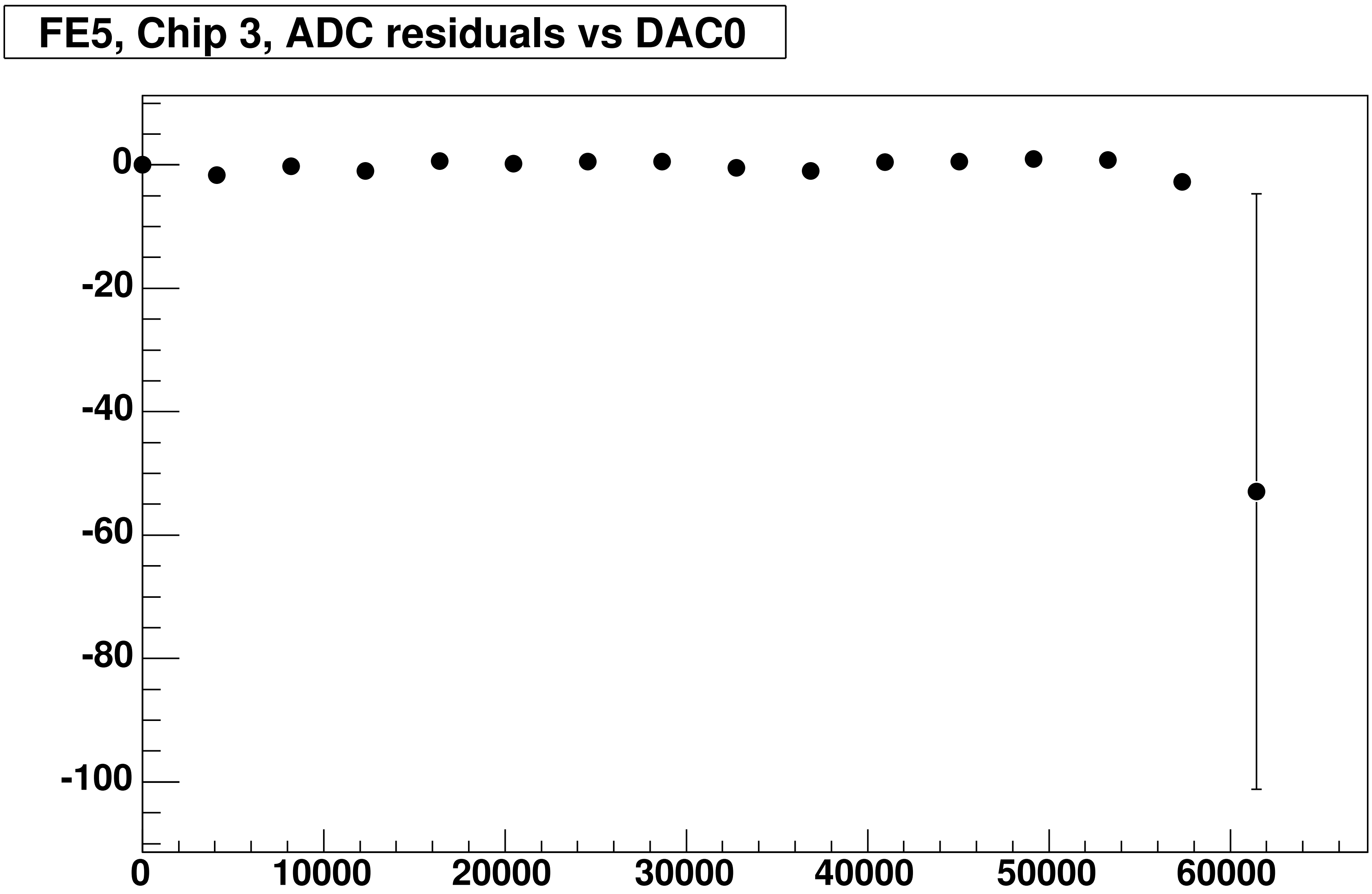
FE5, Chip 2, ADC mean vs DAC1
χ^2 / ndf 26.86 / 11
p0 42.78 ± 0.039
p1 2.324e-06 ± 1.082e-06
43.1
43.05
43
42.95
42.9
42.85
42.8
42.75
42.7
42.65
0
10000
20000
30000
40000
50000
60000

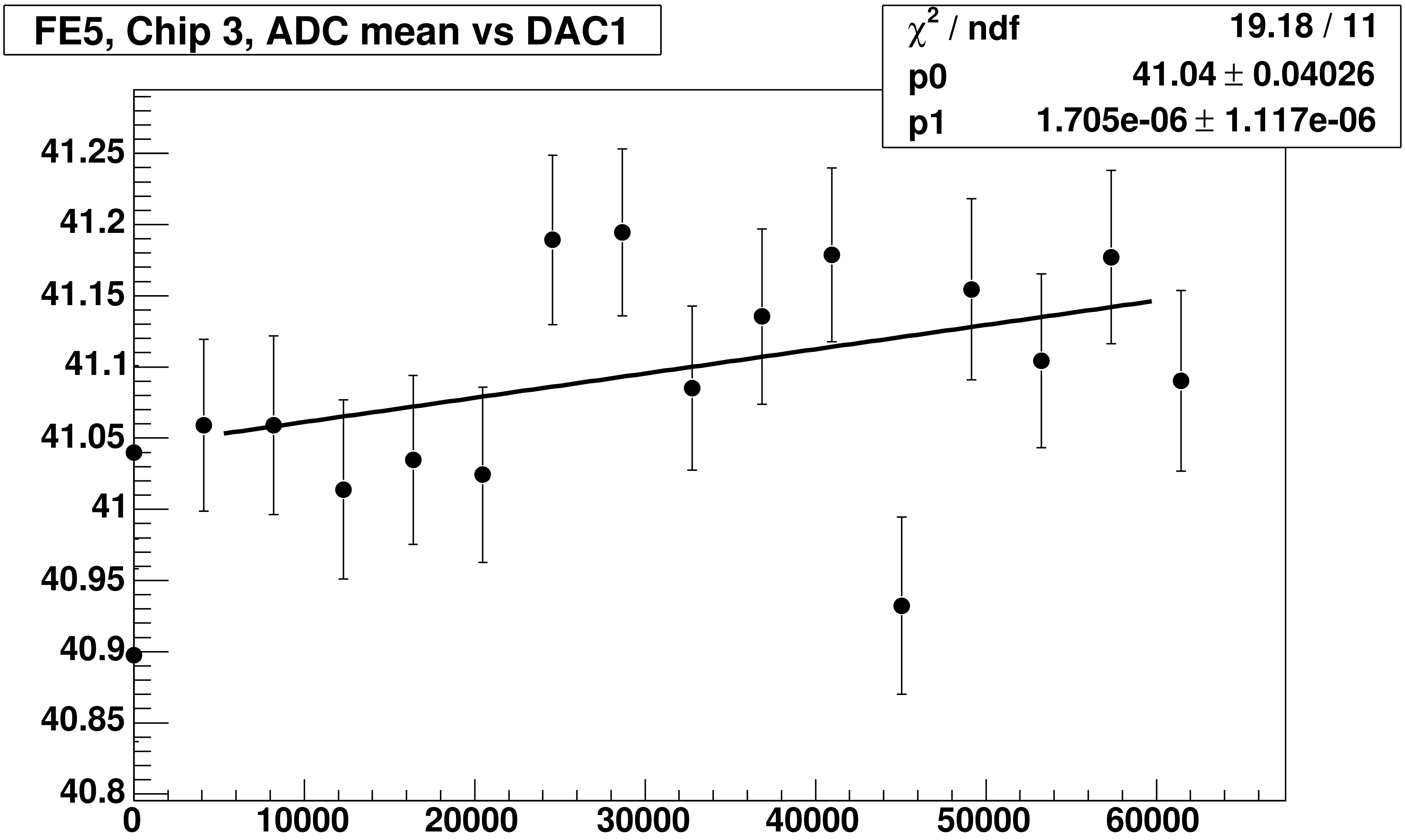

FE5, Chip 2, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

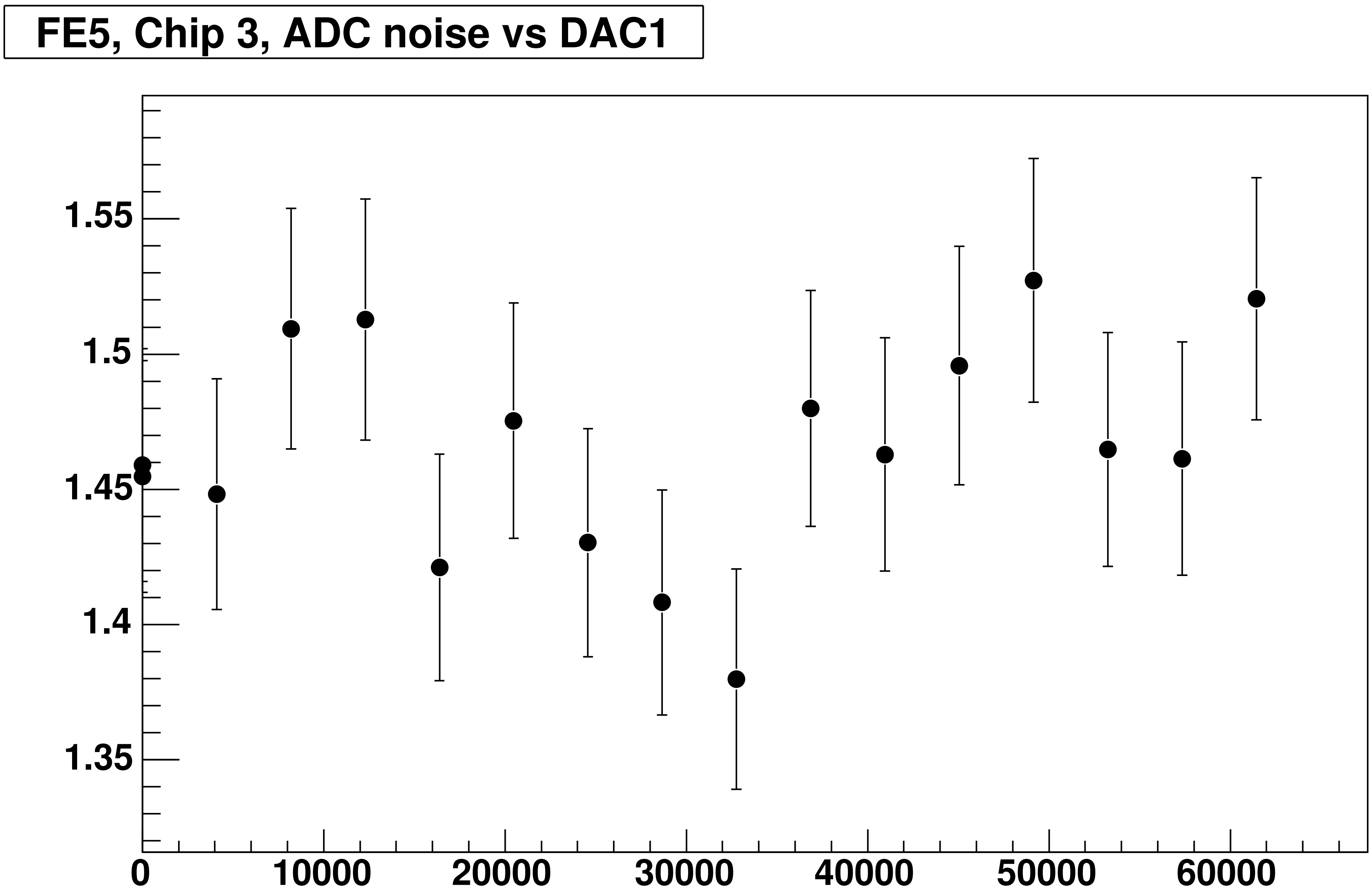

FE5, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1683 / 11
p0 43.58 ± 0.04232
p1 0.4514 ± 1.375e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

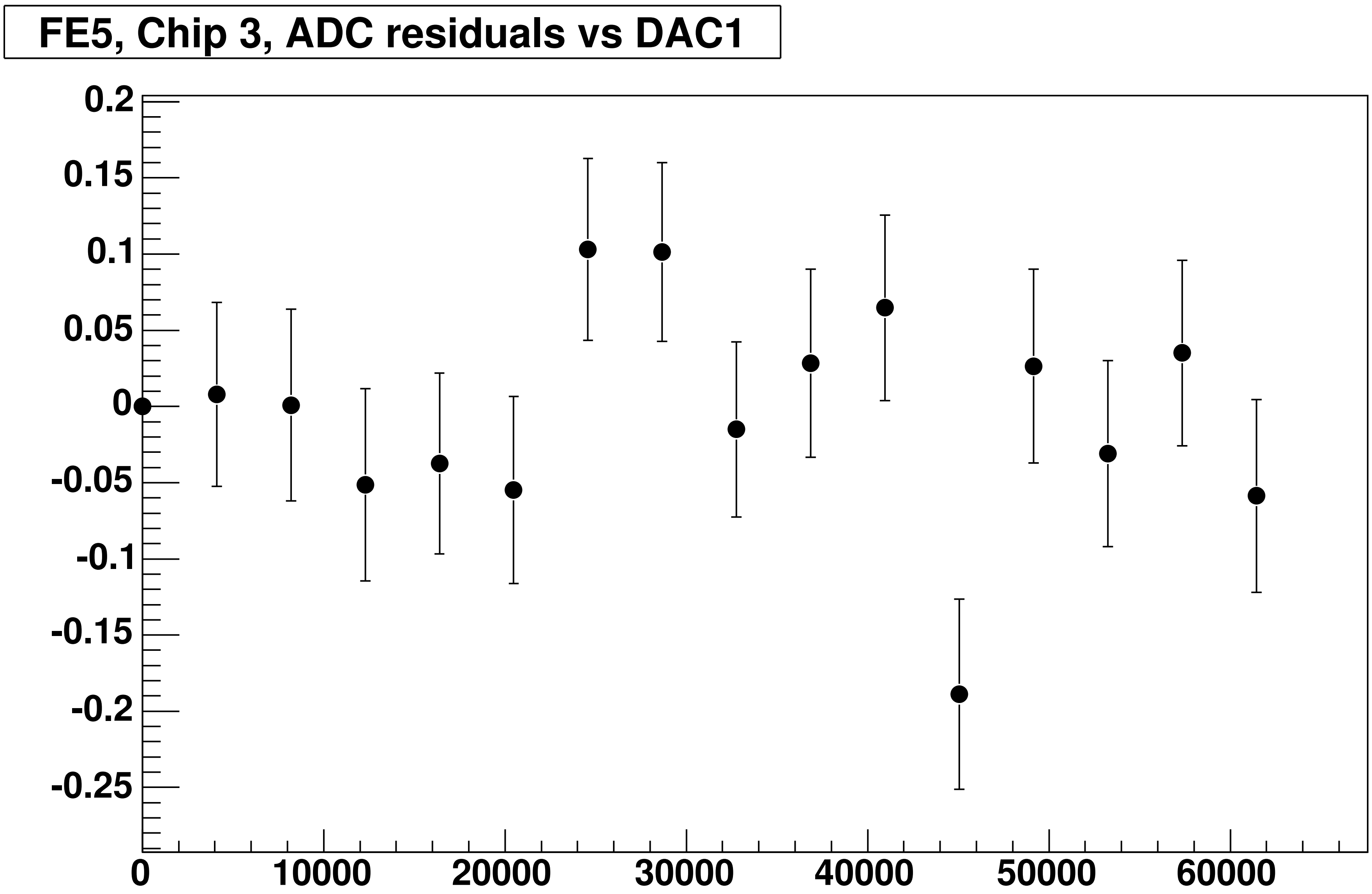

FE5, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

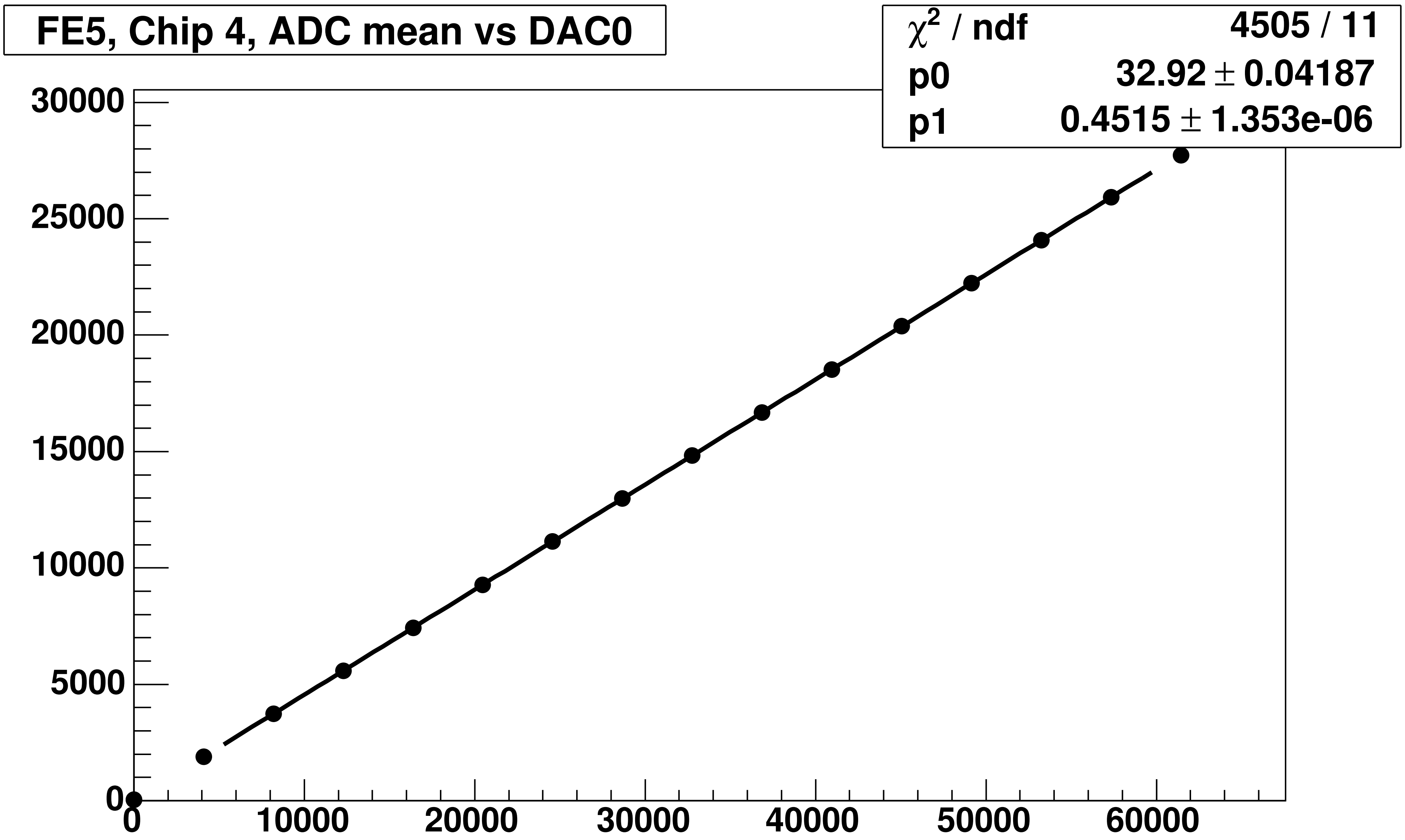

FE5, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

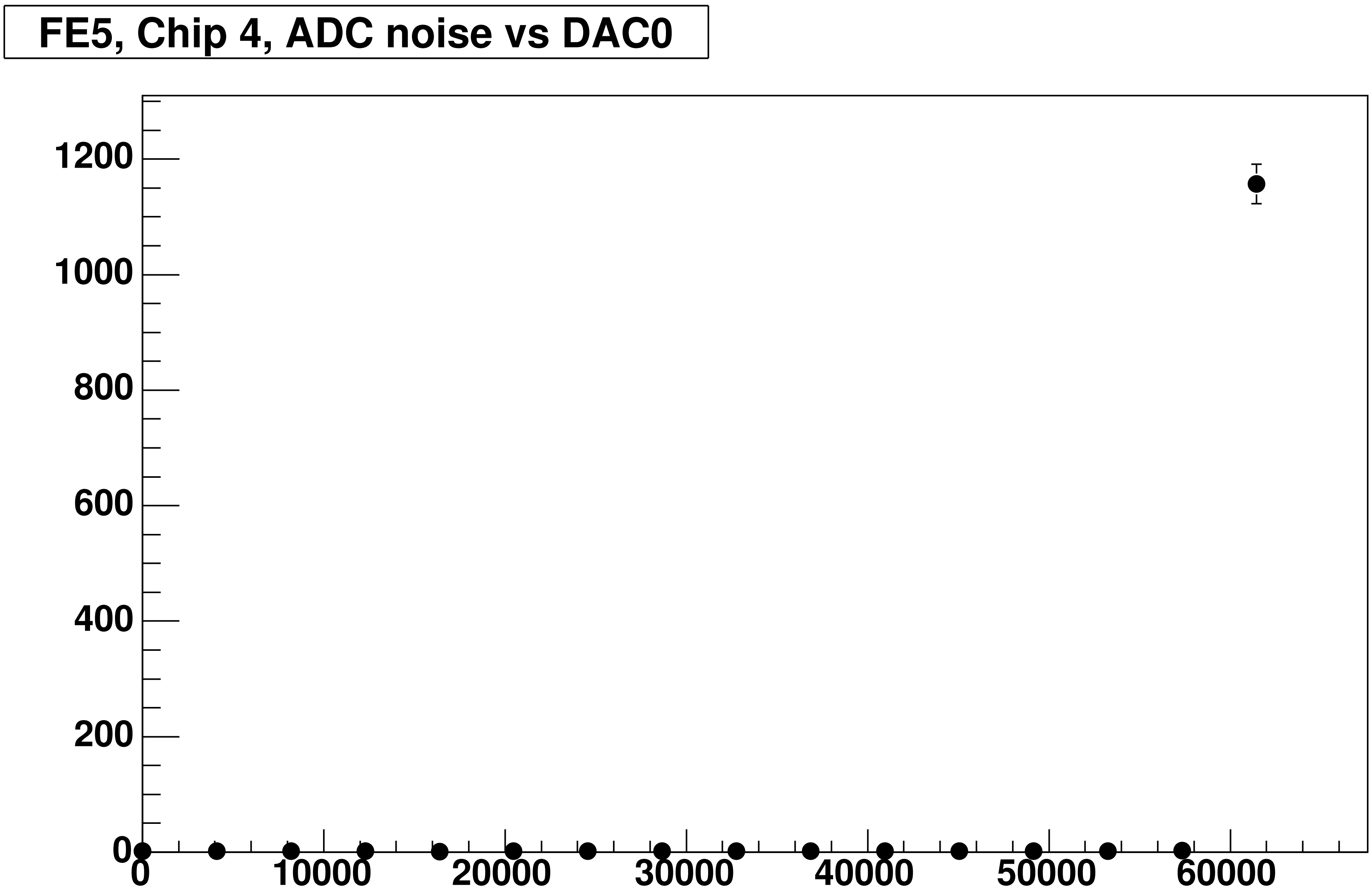


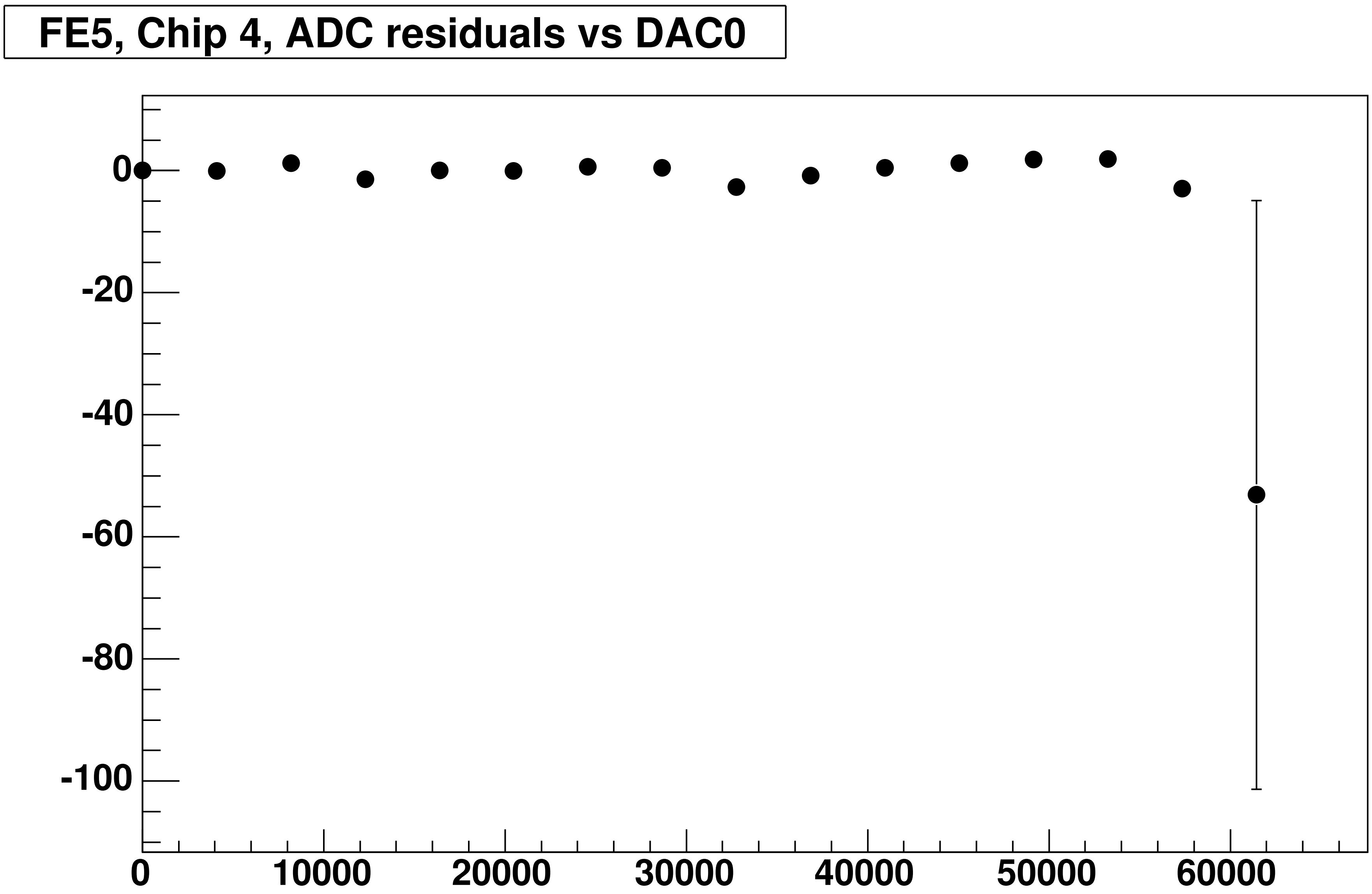
FE5, Chip 3, ADC mean vs DAC1
χ^2 / ndf 19.18 / 11
p0 41.04 ± 0.04026
p1 1.705e-06 ± 1.117e-06
41.25
41.2
41.15
41.1
41.05
41
40.95
40.9
40.85
40.8
0
10000
20000
30000
40000
50000
60000

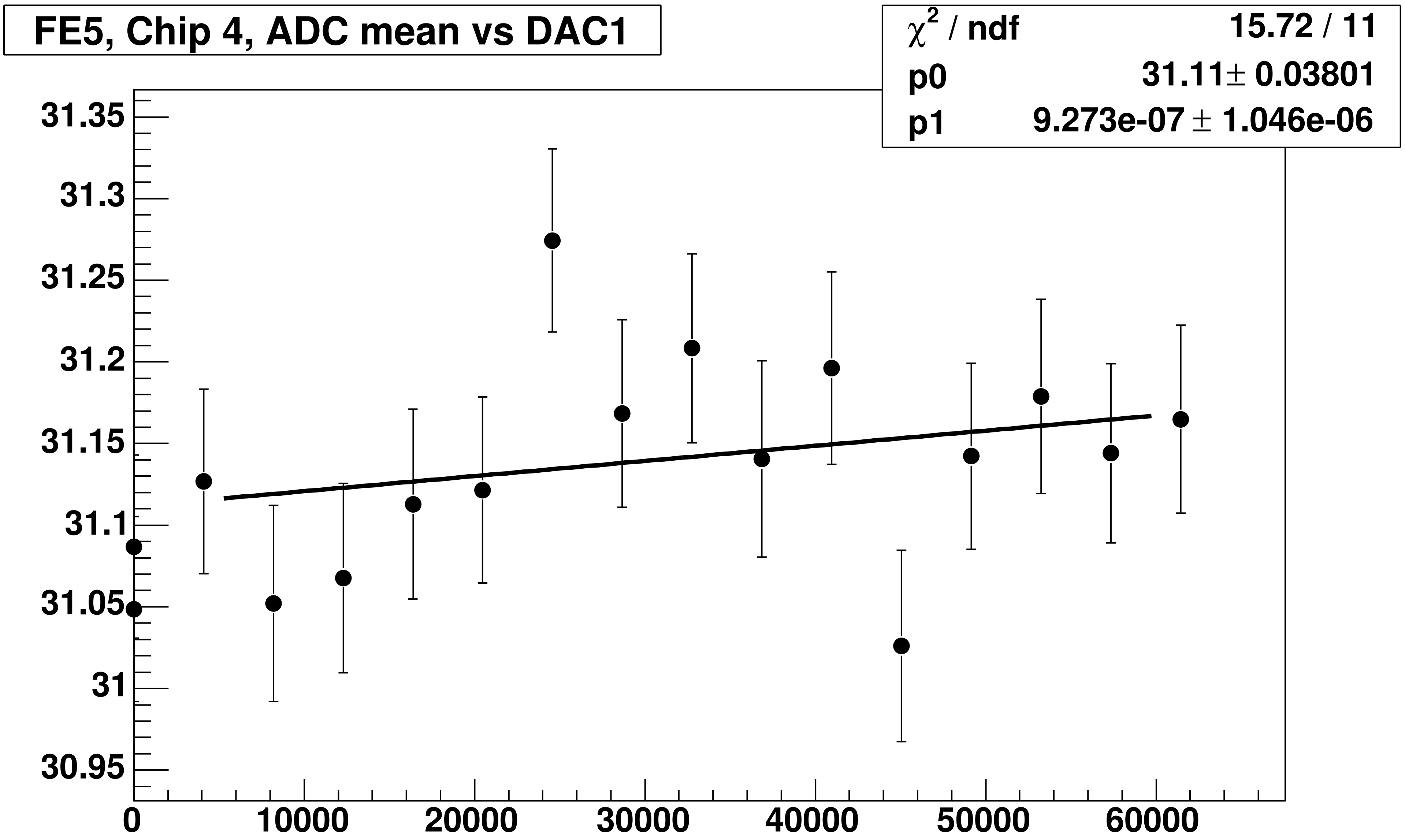

FE5, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

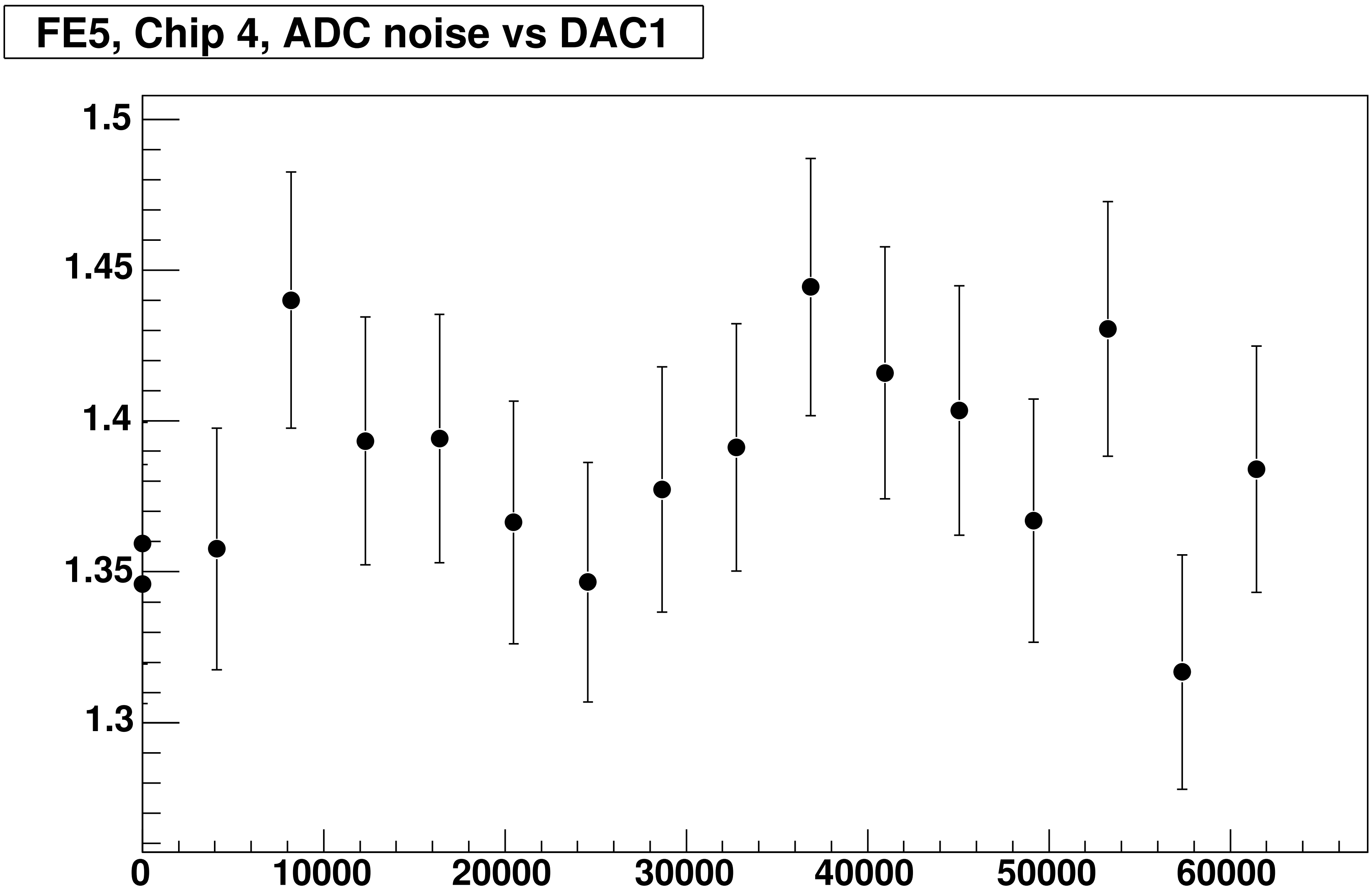

FE5, Chip 3, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

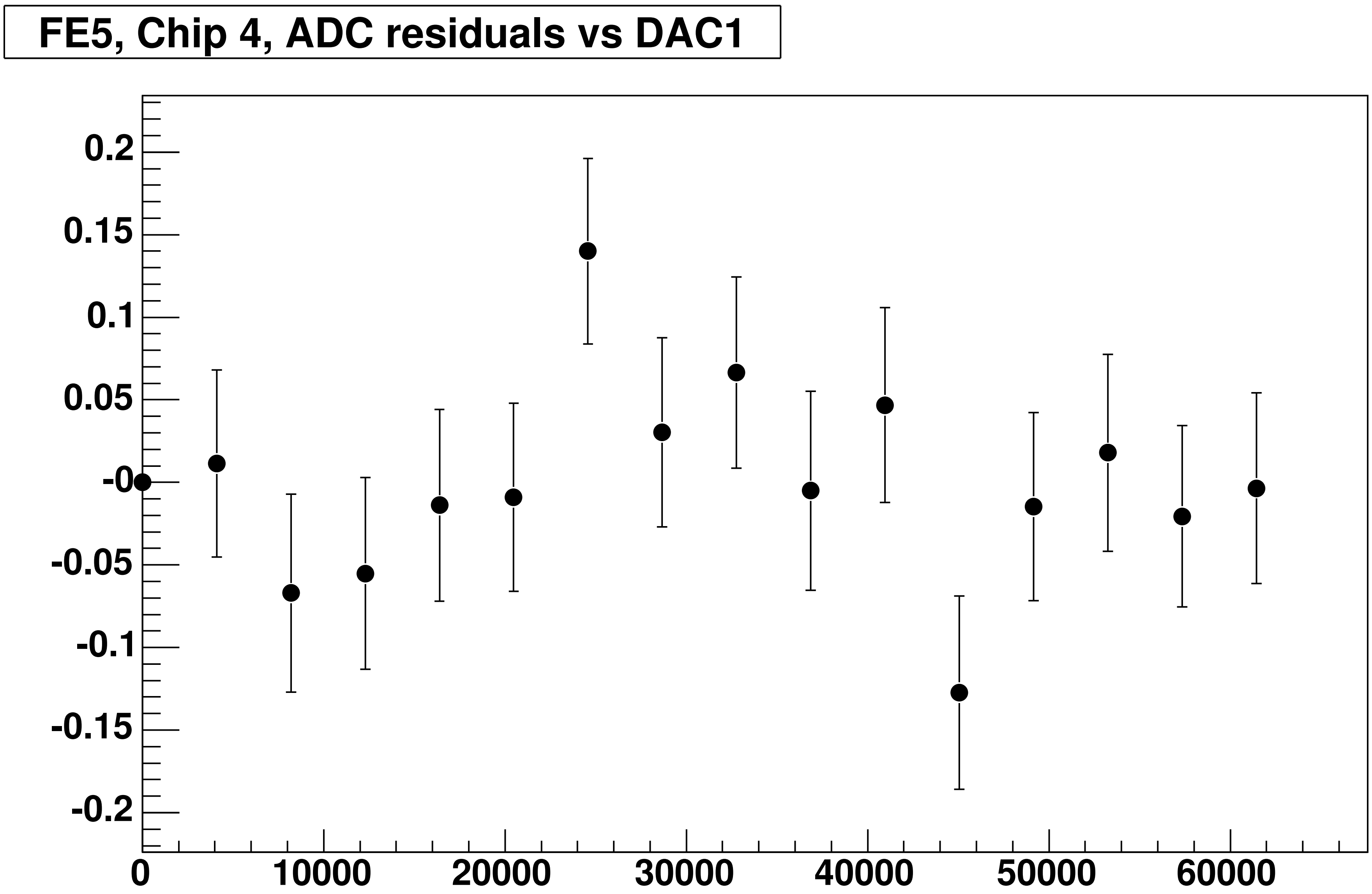

FE5, Chip 4, ADC mean vs DAC0
χ^2 / ndf 4505 / 11
p0 32.92 ± 0.04187
p1 0.4515 ± 1.353e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

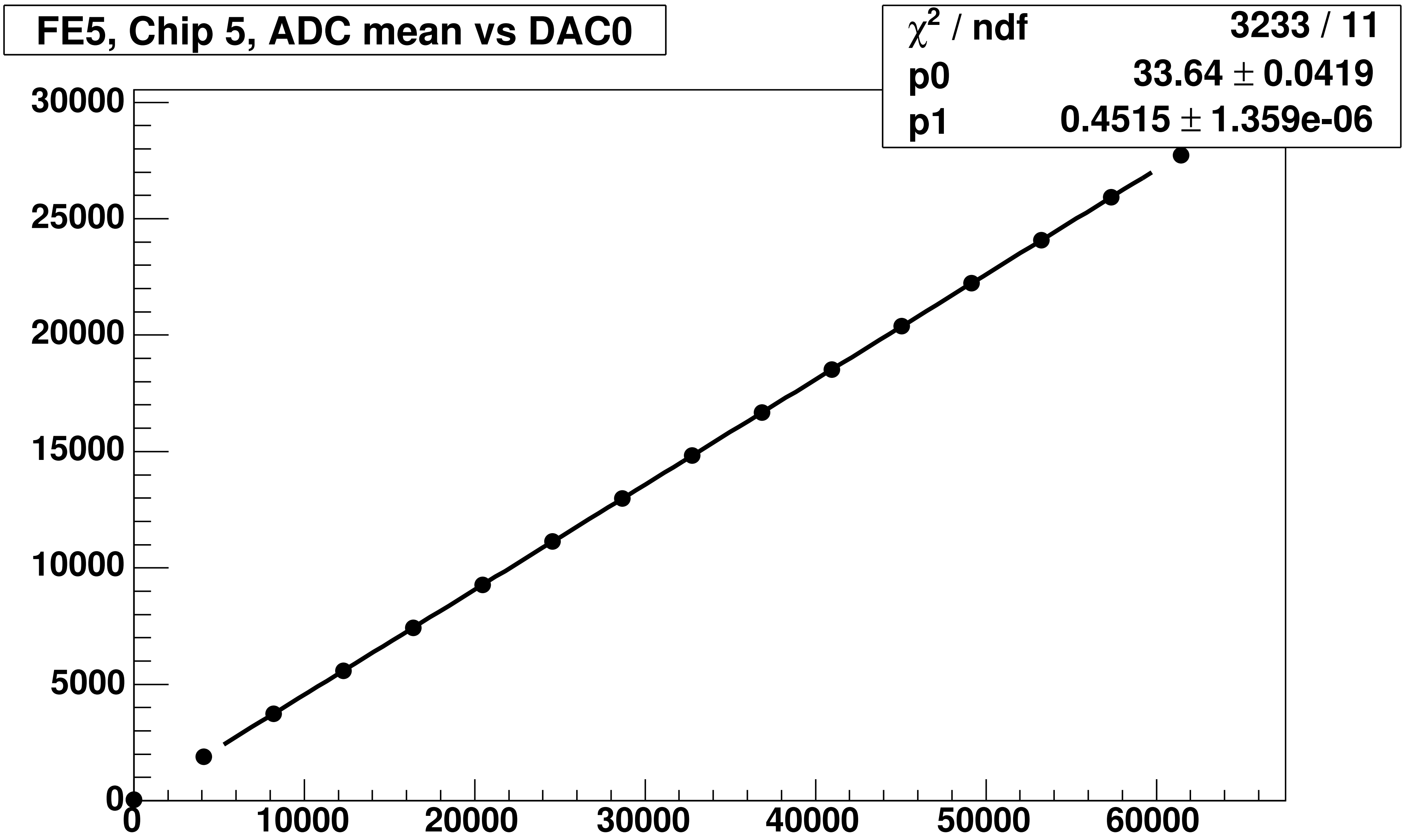

FE5, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE5, Chip 4, ADC mean vs DAC1
χ^2 / ndf 15.72 / 11
p0 31.11± 0.03801
p1 9.273e-07 ± 1.046e-06
31.35
31.3
31.25
31.2
31.15
31.1
31.05
31
30.95
0
10000
20000
30000
40000
50000
60000

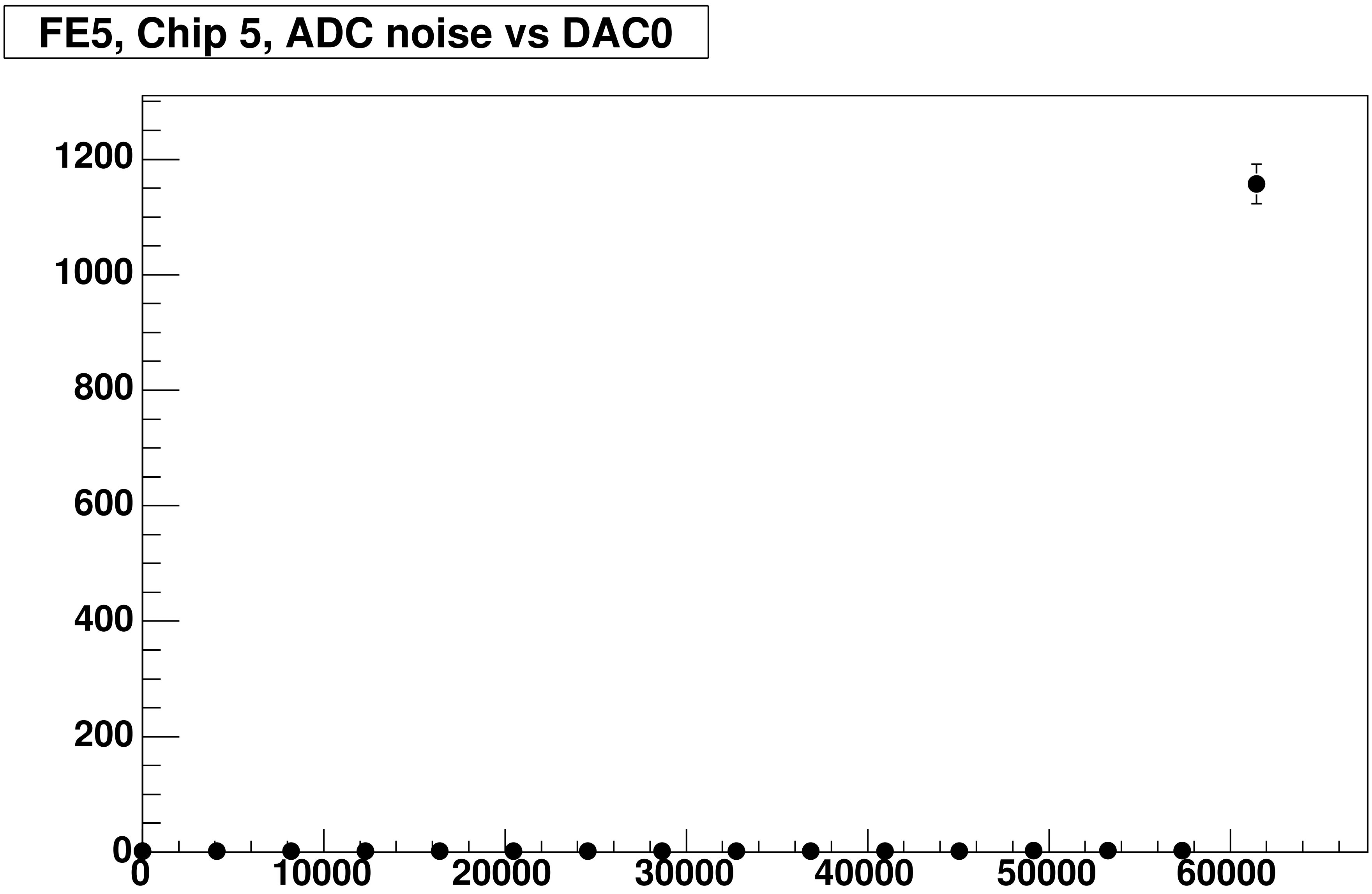

FE5, Chip 4, ADC noise vs DAC1
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

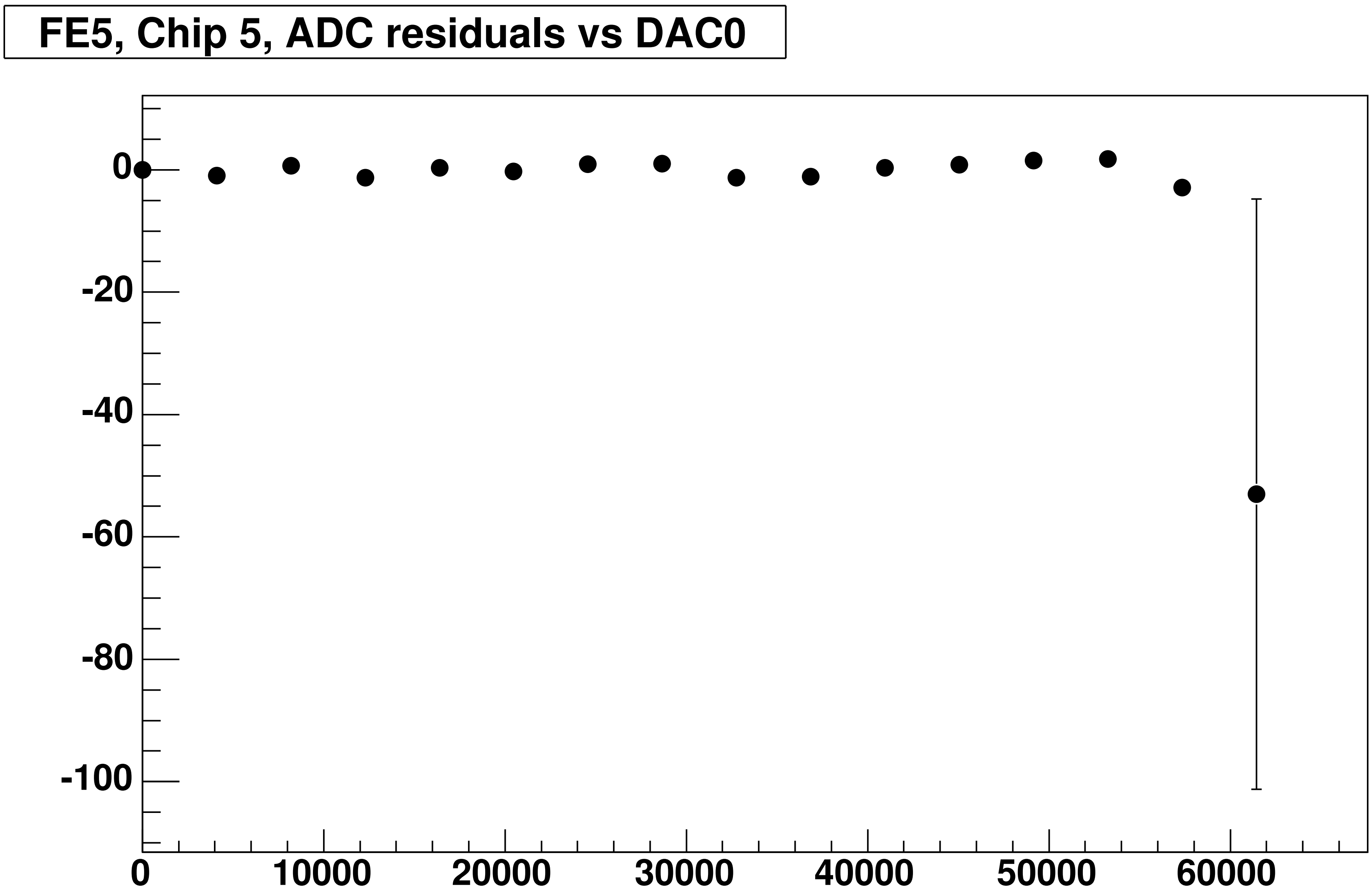


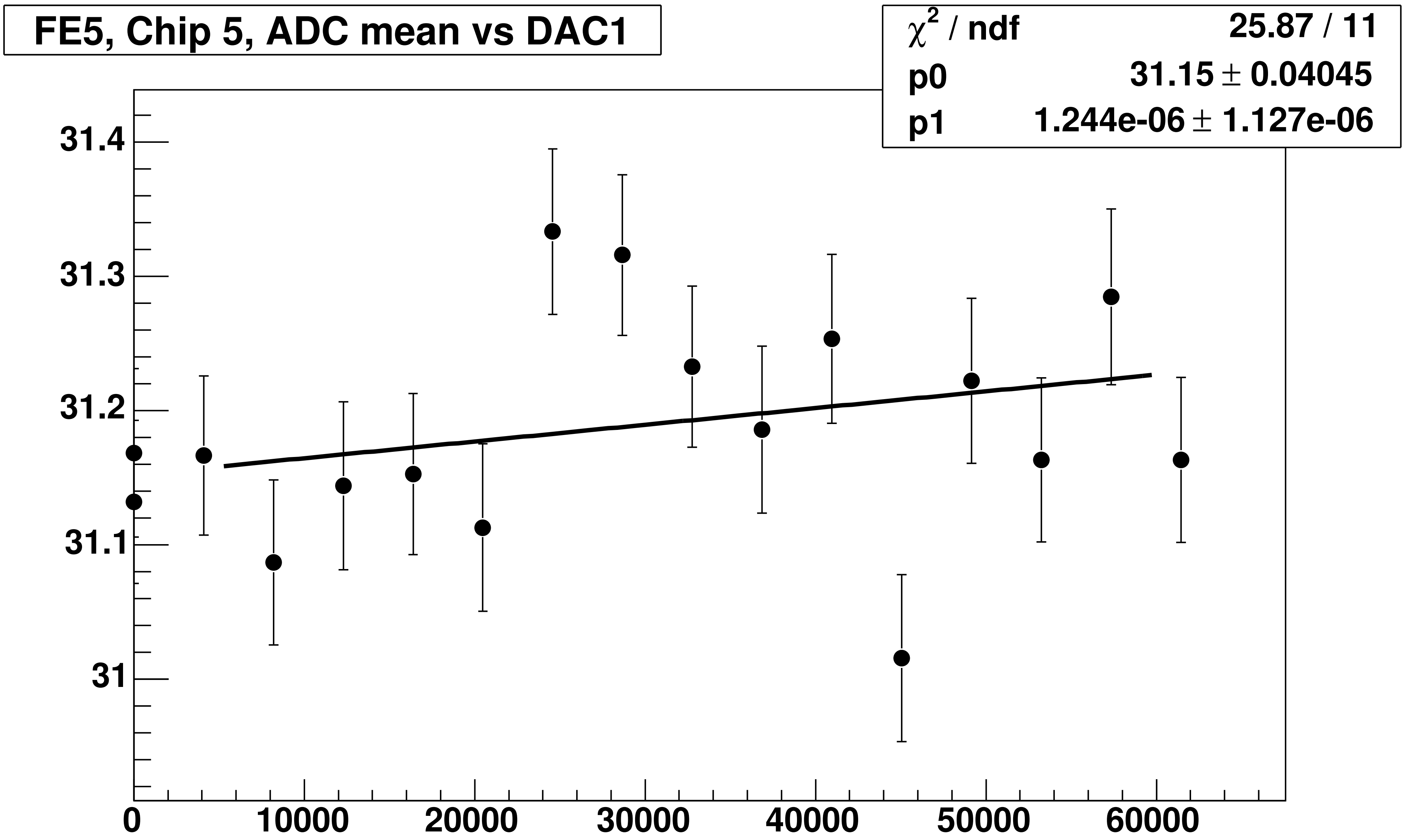
FE5, Chip 4, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

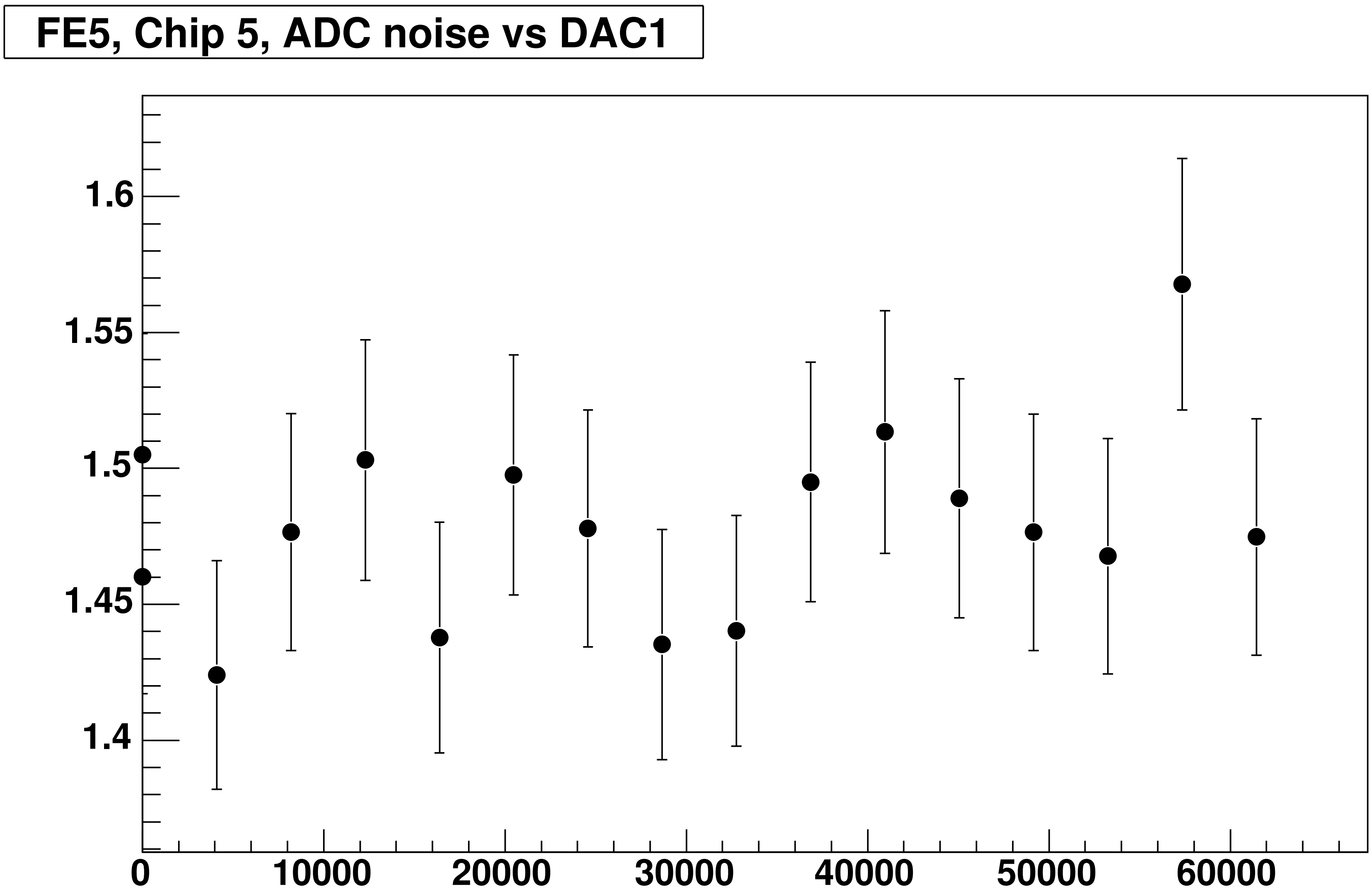


FE5, Chip 5, ADC mean vs DAC0
χ^2 / ndf 3233 / 11
p0 33.64 ± 0.0419
p1 0.4515 ± 1.359e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

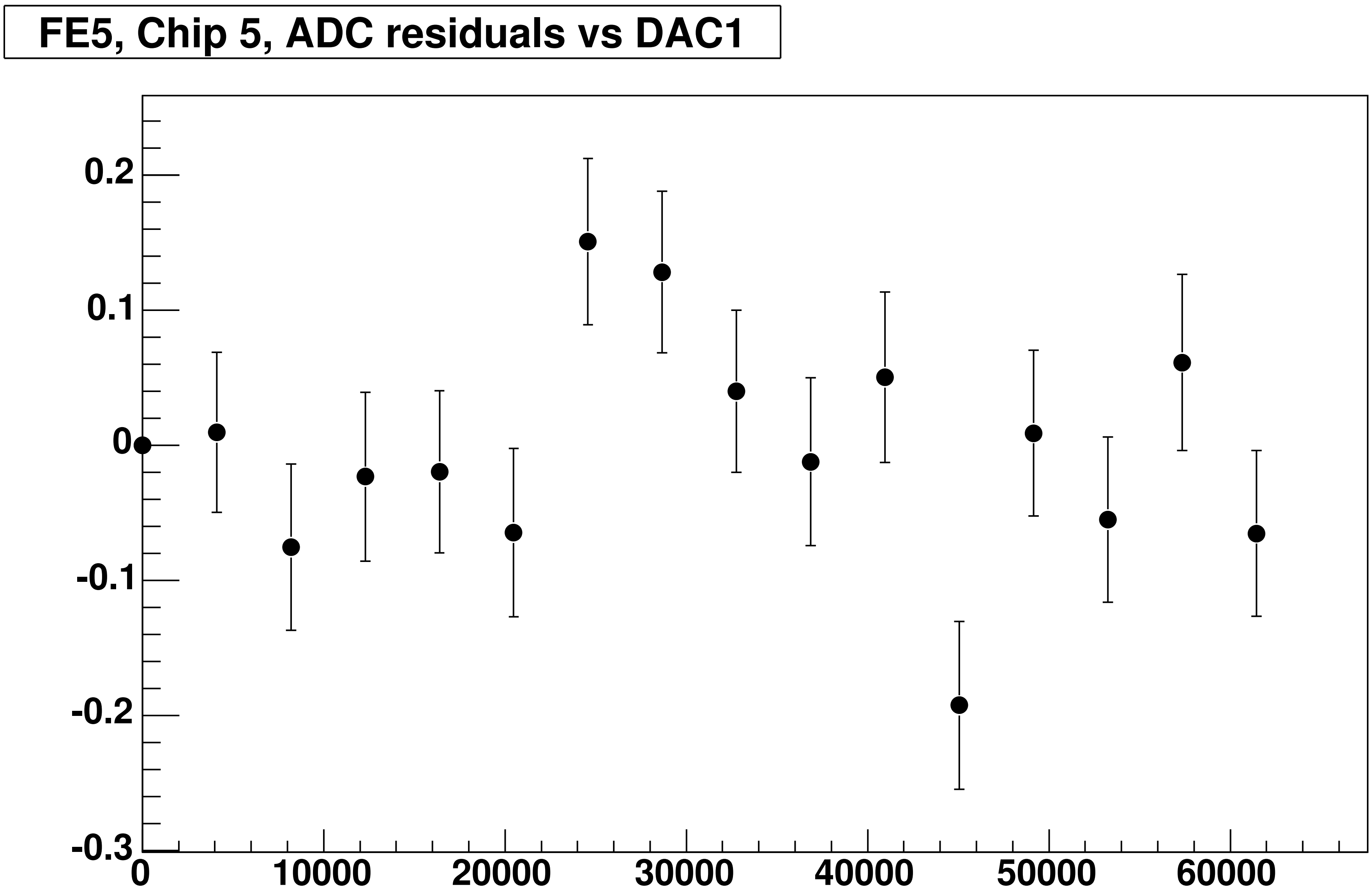

FE5, Chip 5, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

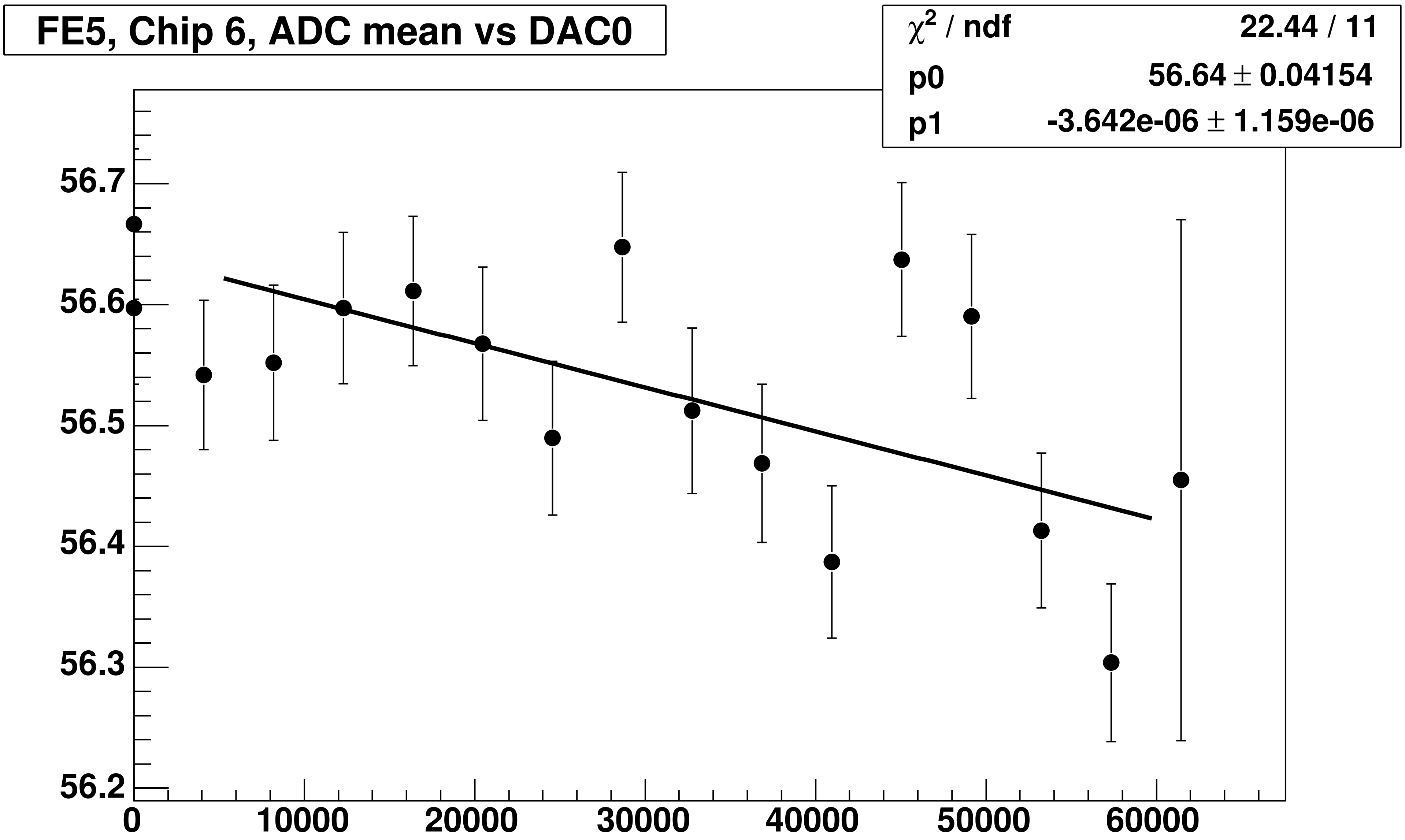

FE5, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

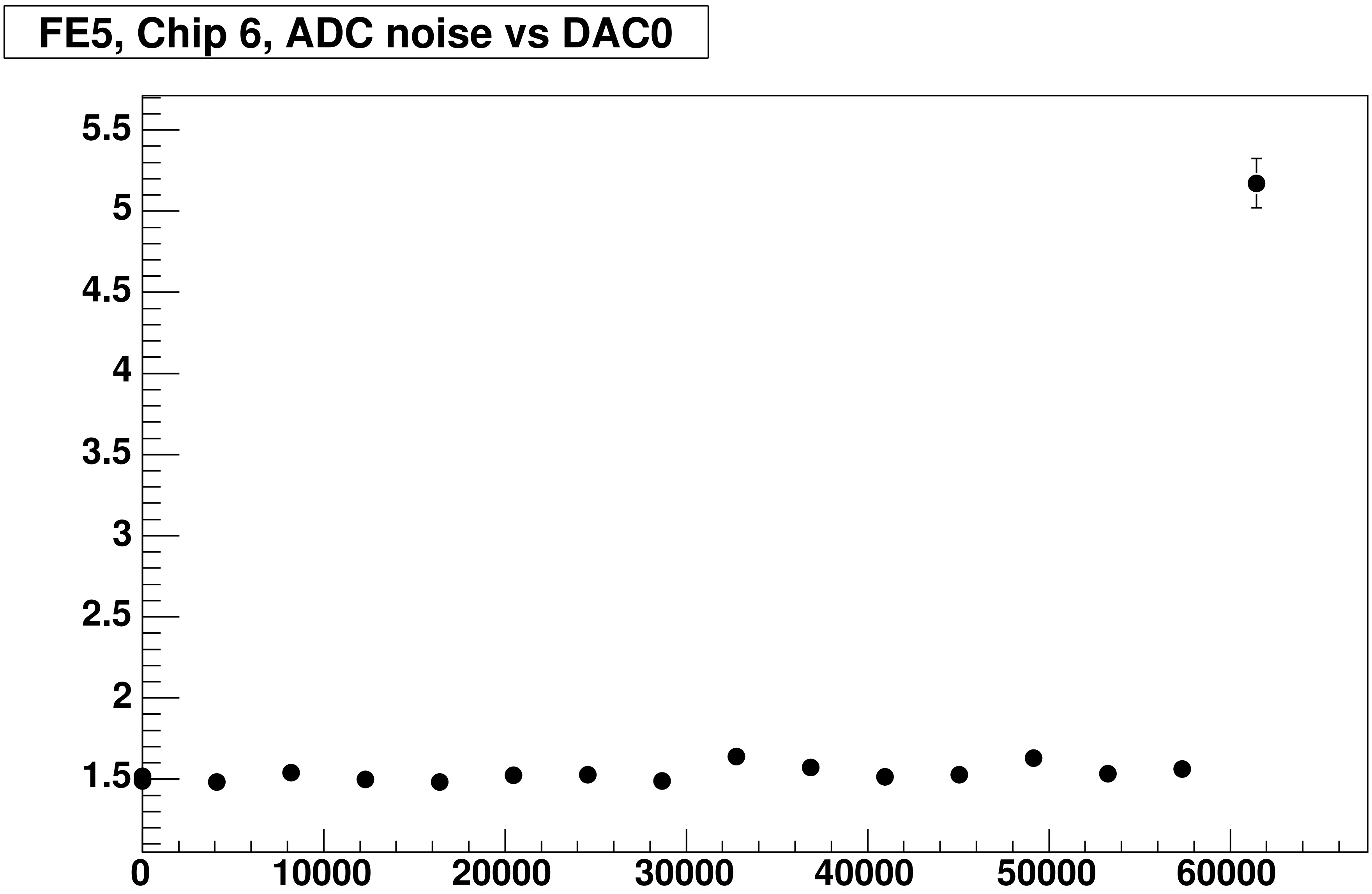

FE5, Chip 5, ADC mean vs DAC1
χ^2 / ndf 25.87 / 11
p0 31.15 ± 0.04045
p1 1.244e-06 ± 1.127e-06
31.4
31.3
31.2
31.1
31
0
10000
20000
30000
40000
50000
60000

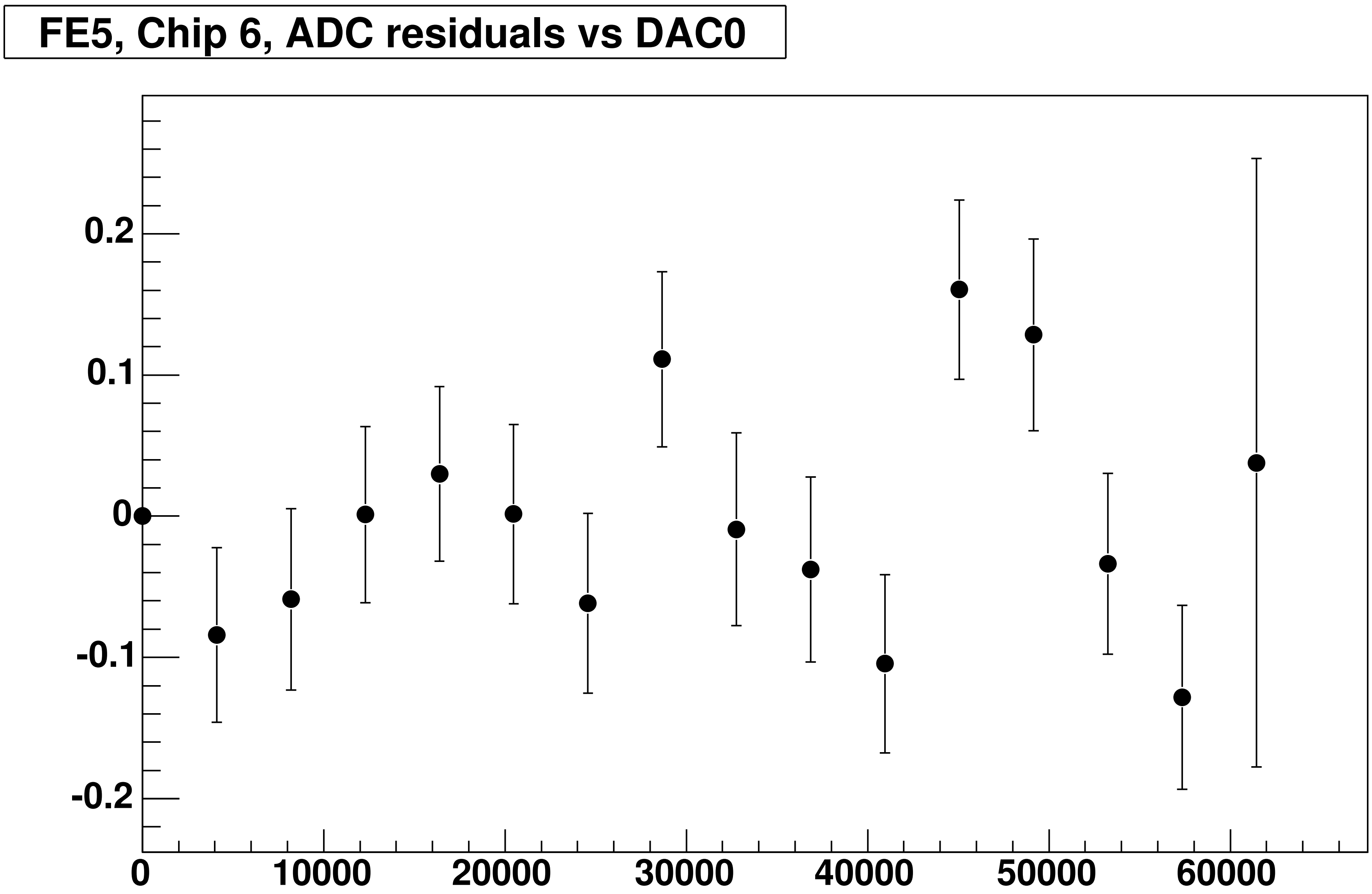


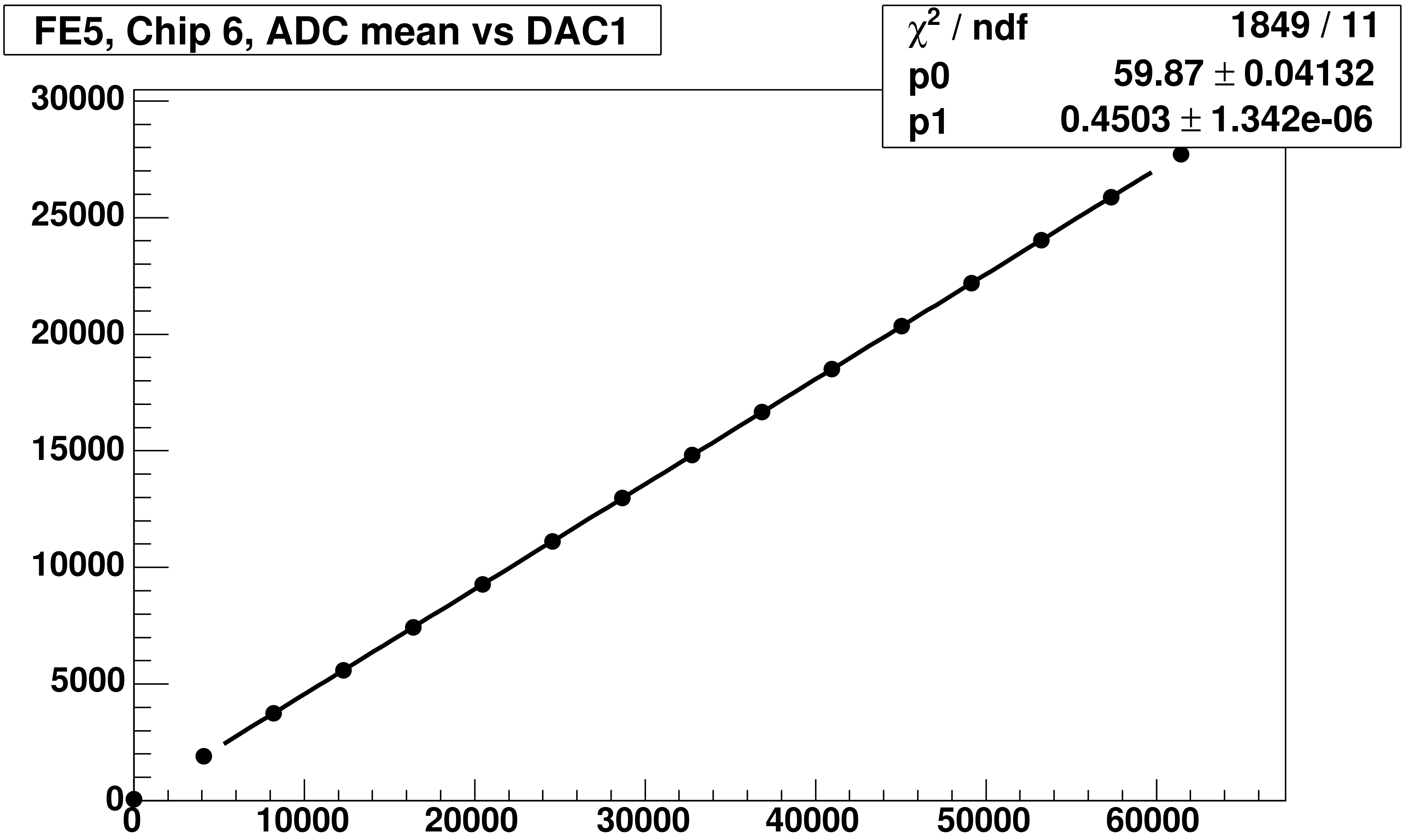
FE5, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

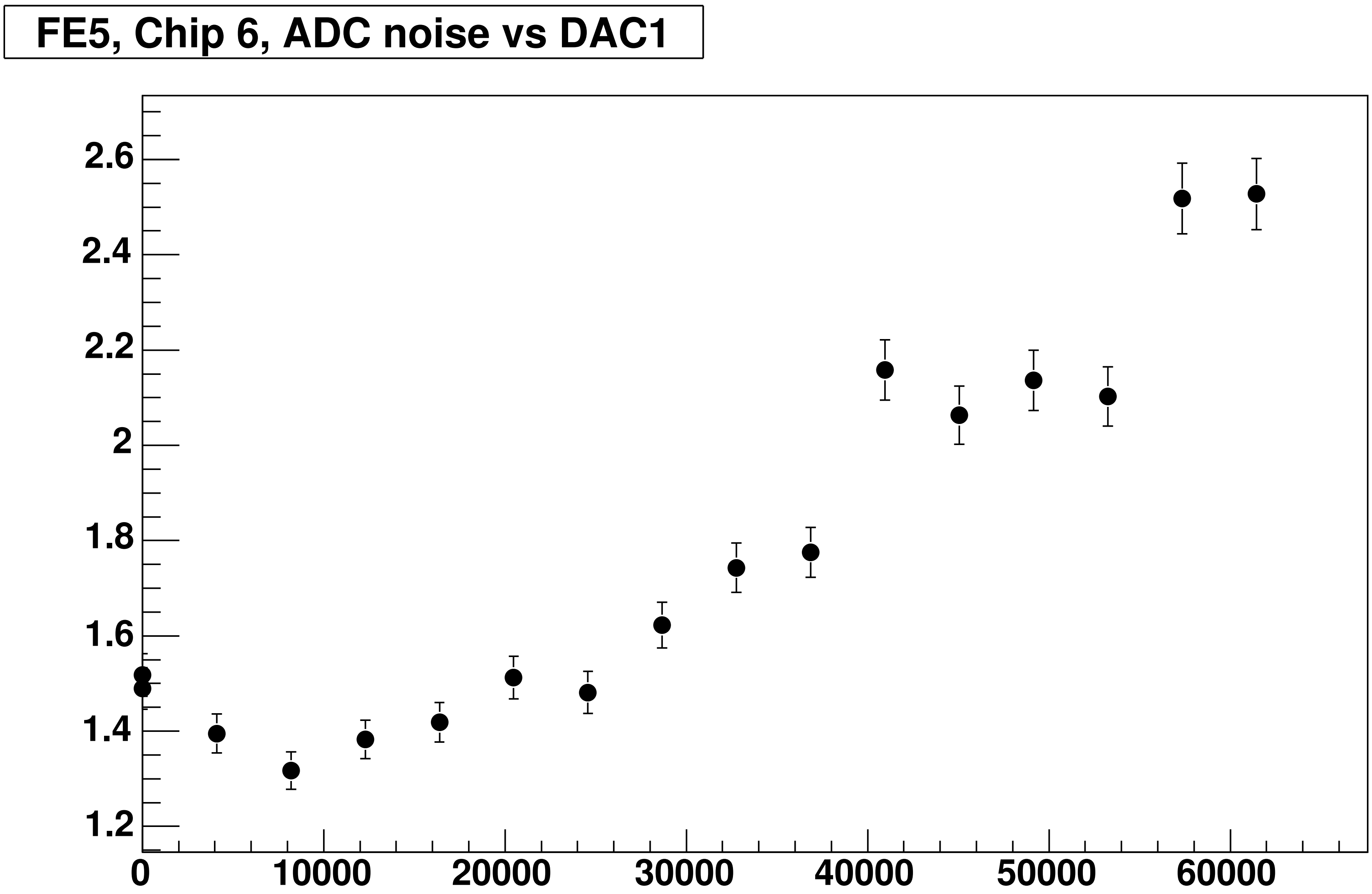

FE5, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

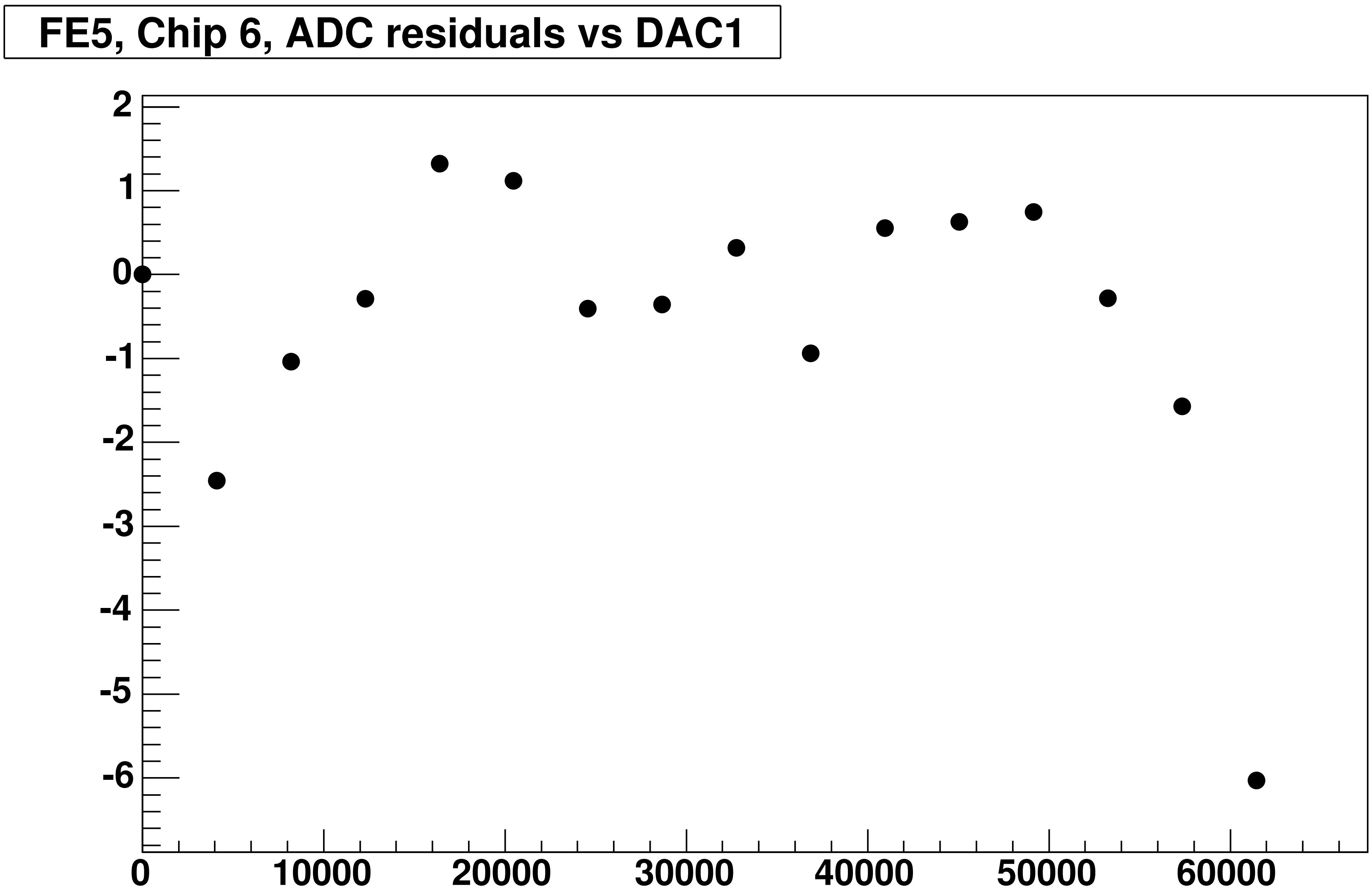

FE5, Chip 6, ADC mean vs DAC0
χ^2 / ndf 22.44 / 11
p0 56.64 ± 0.04154
p1 -3.642e-06 ± 1.159e-06
56.7
56.6
56.5
56.4
56.3
56.2
0
10000
20000
30000
40000
50000
60000

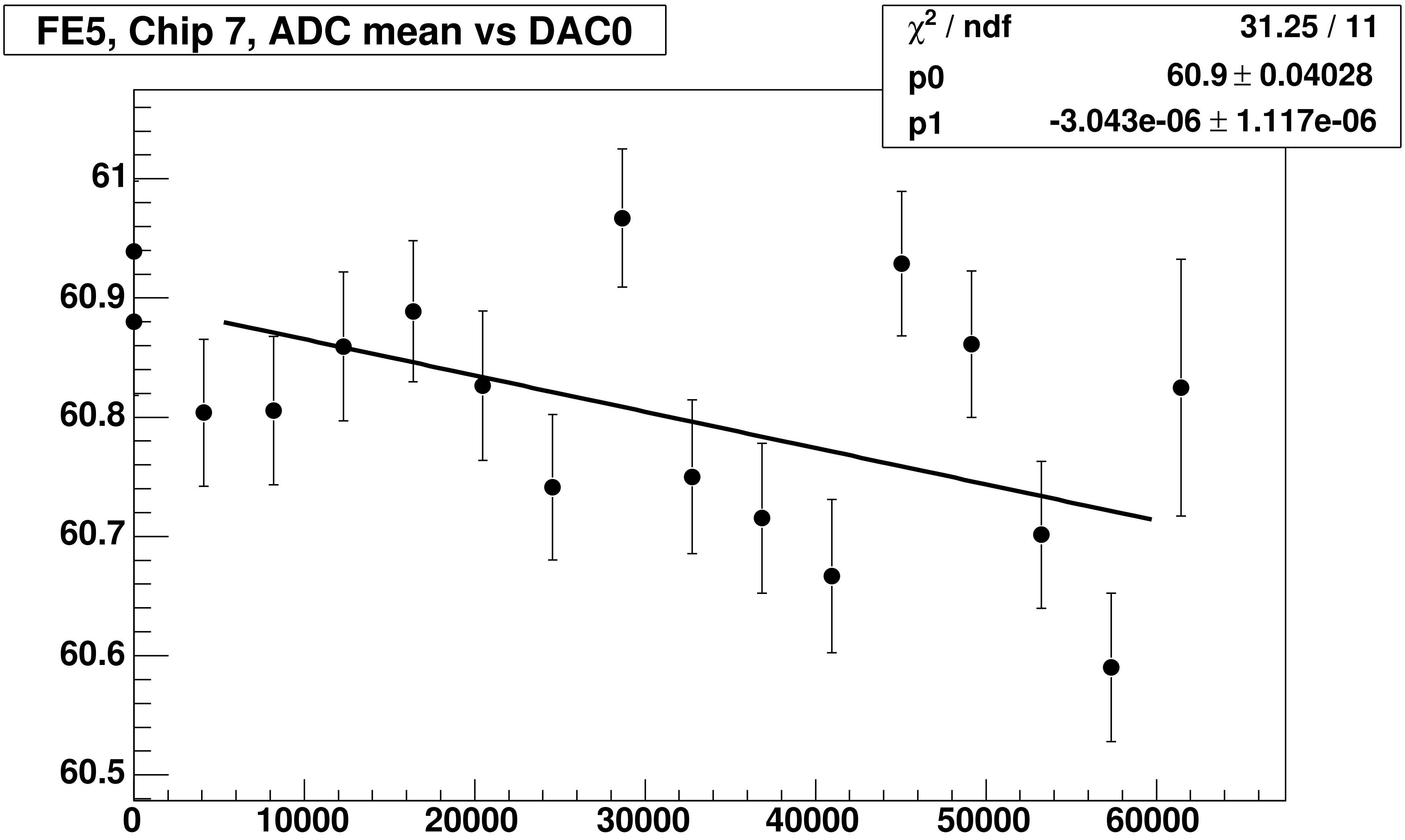

FE5, Chip 6, ADC noise vs DAC0
5.5
5
4.5
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

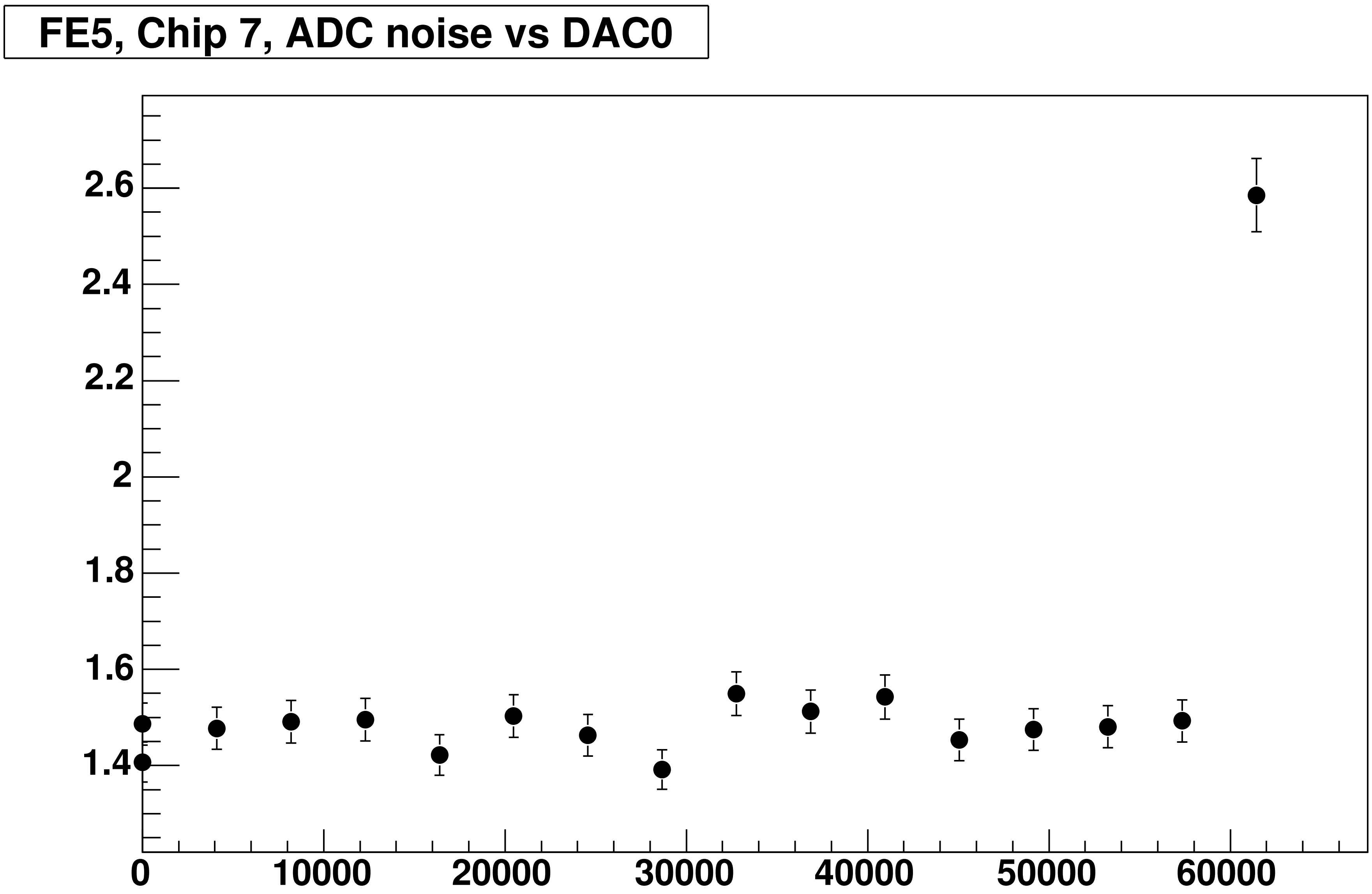

FE5, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

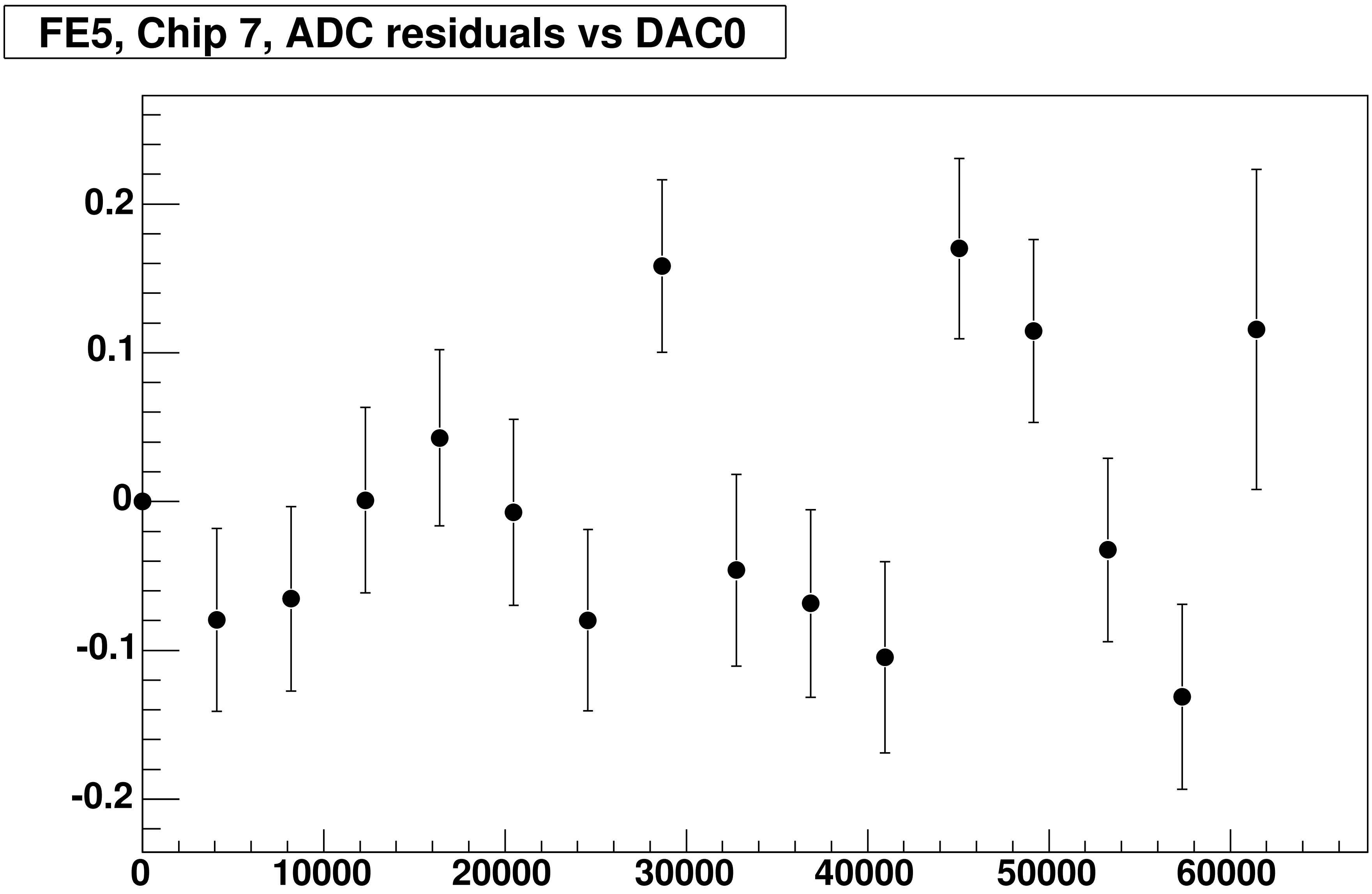

FE5, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1849 / 11
p0 59.87 ± 0.04132
p1 0.4503 ± 1.342e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

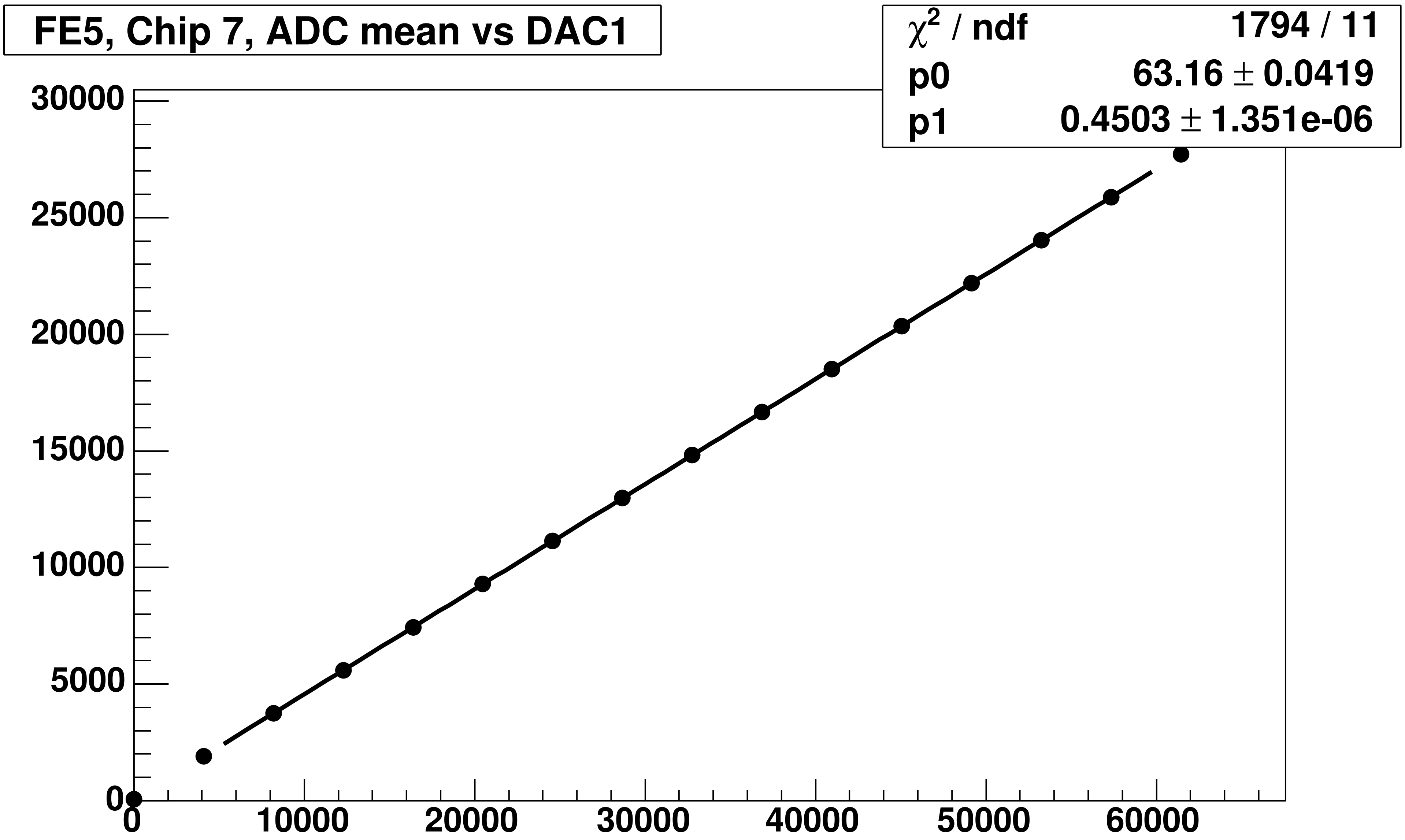

FE5, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

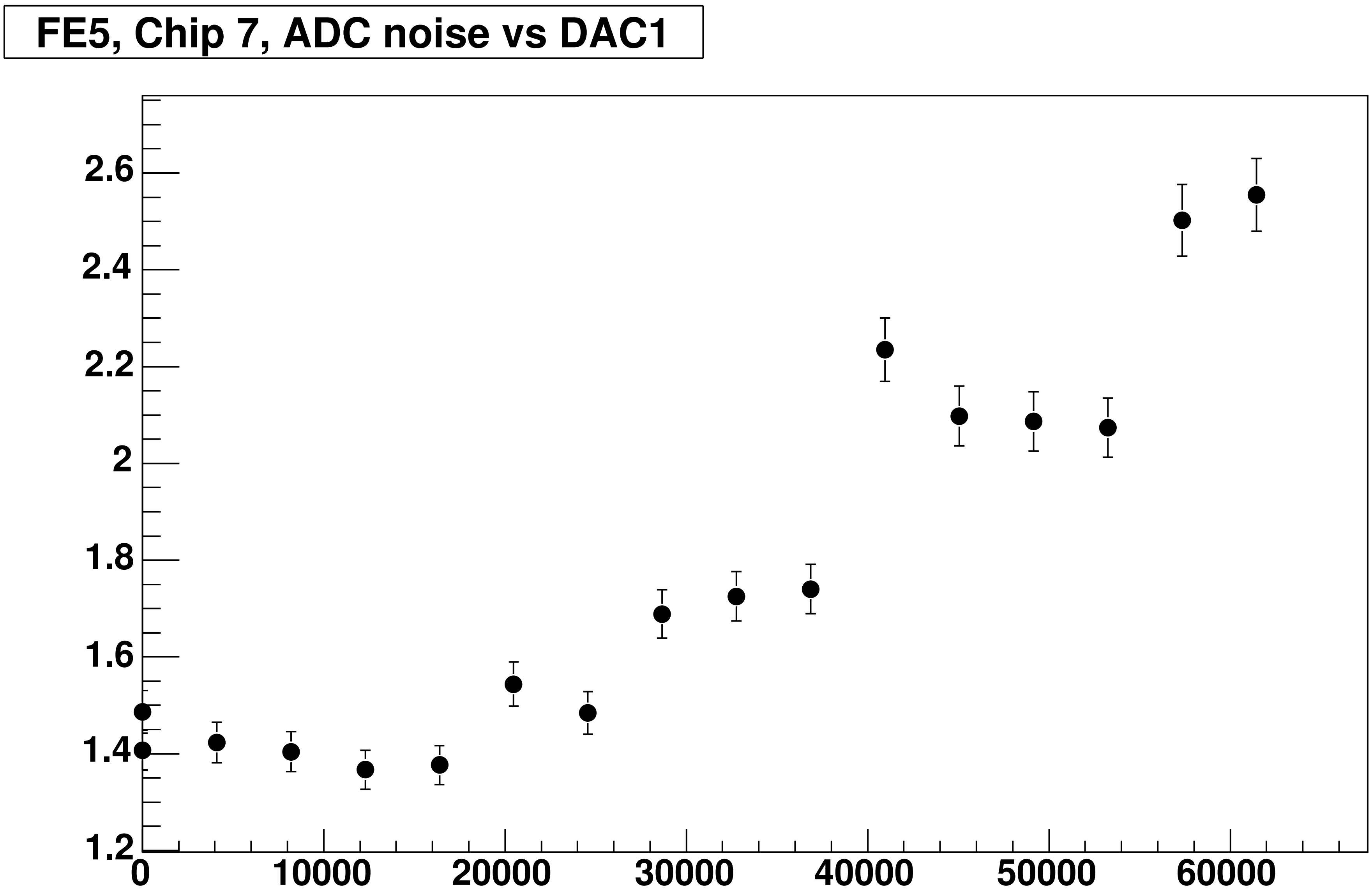

FE5, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

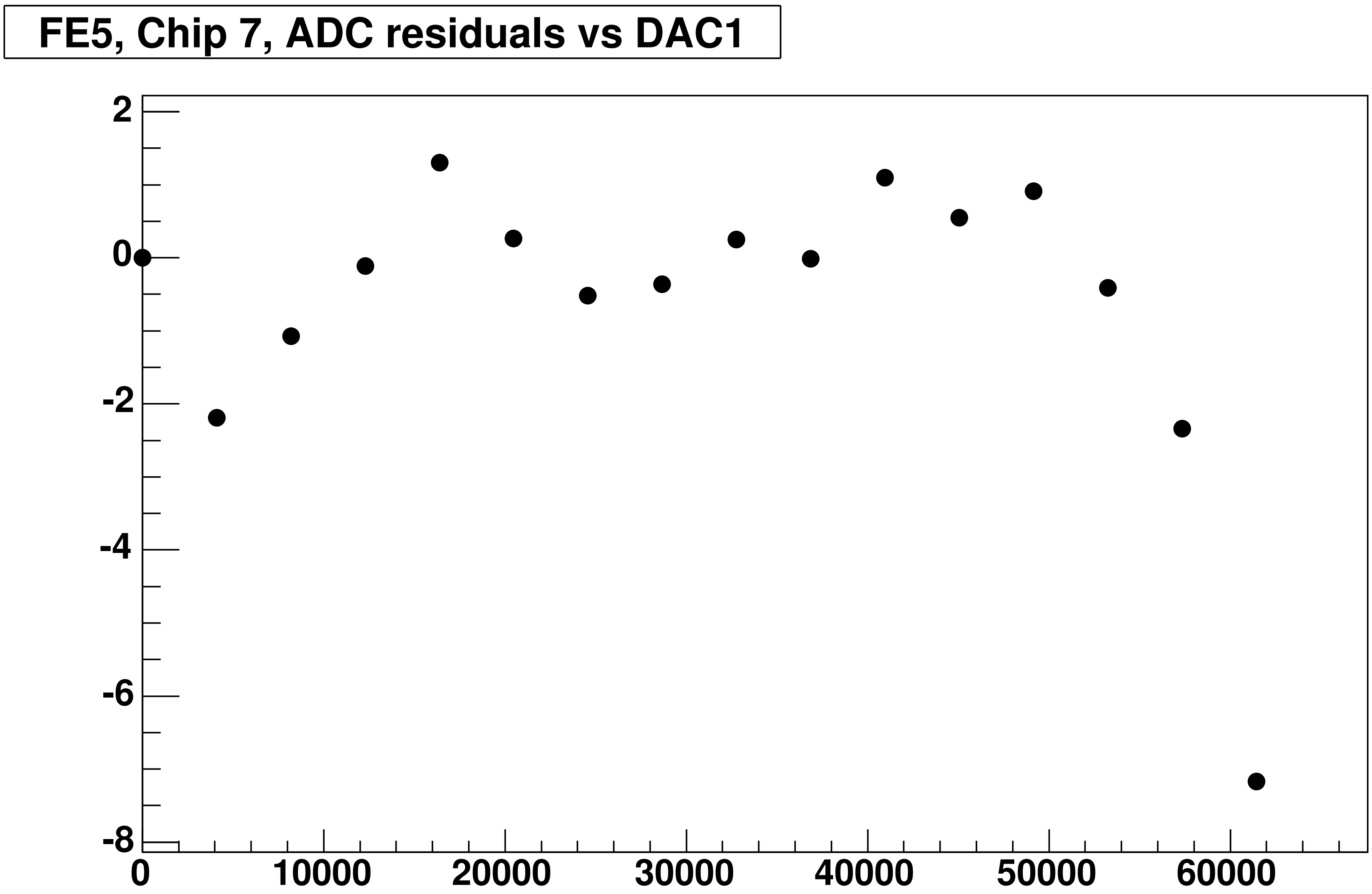

FE5, Chip 7, ADC mean vs DAC0
χ^2 / ndf 31.25 / 11
p0 60.9 ± 0.04028
p1 -3.043e-06 ± 1.117e-06
61
60.9
60.8
60.7
60.6
60.5
0
10000
20000
30000
40000
50000
60000

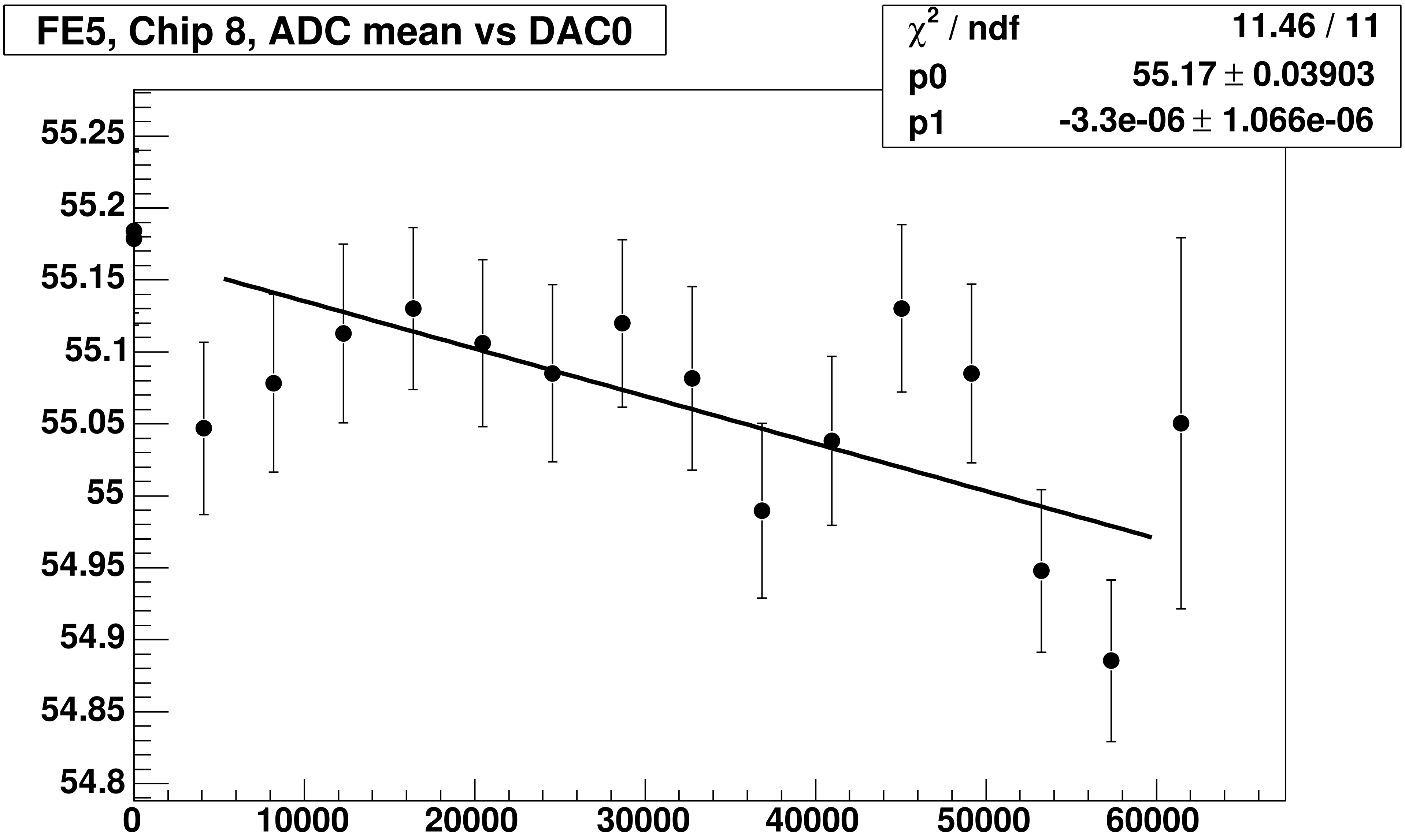

FE5, Chip 7, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

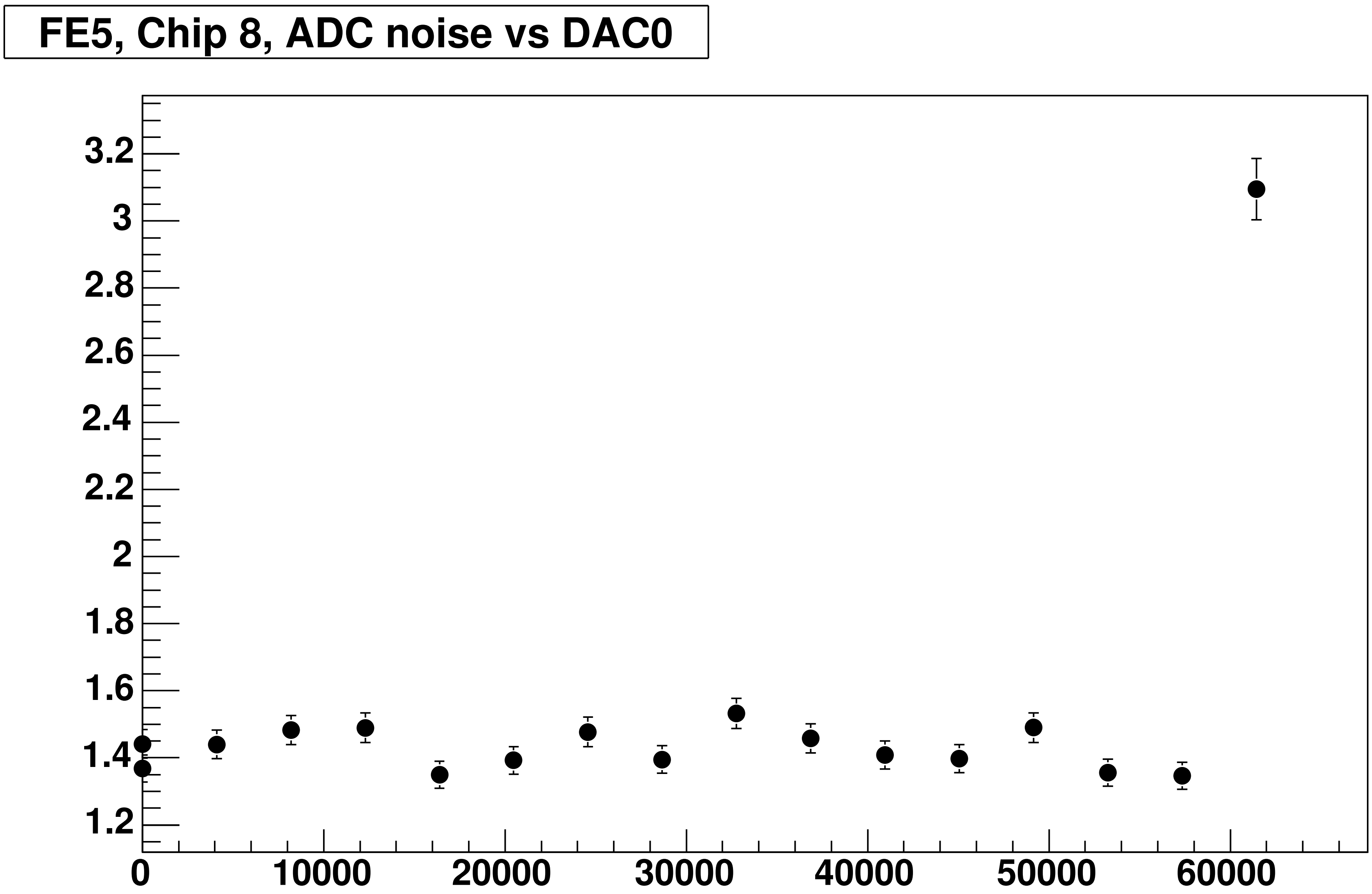

FE5, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE5, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1794 / 11
p0 63.16 ± 0.0419
p1 0.4503 ± 1.351e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

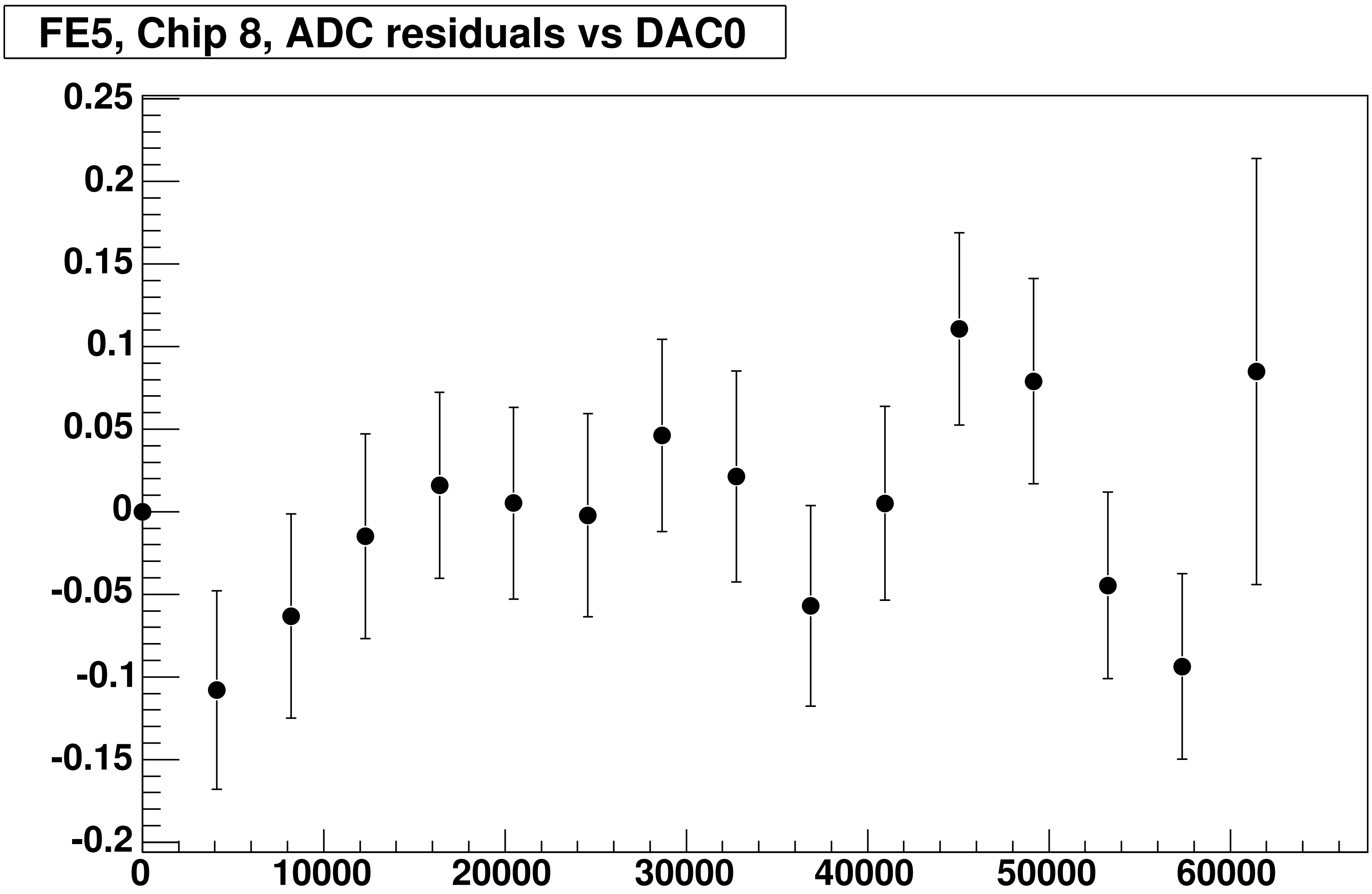

FE5, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

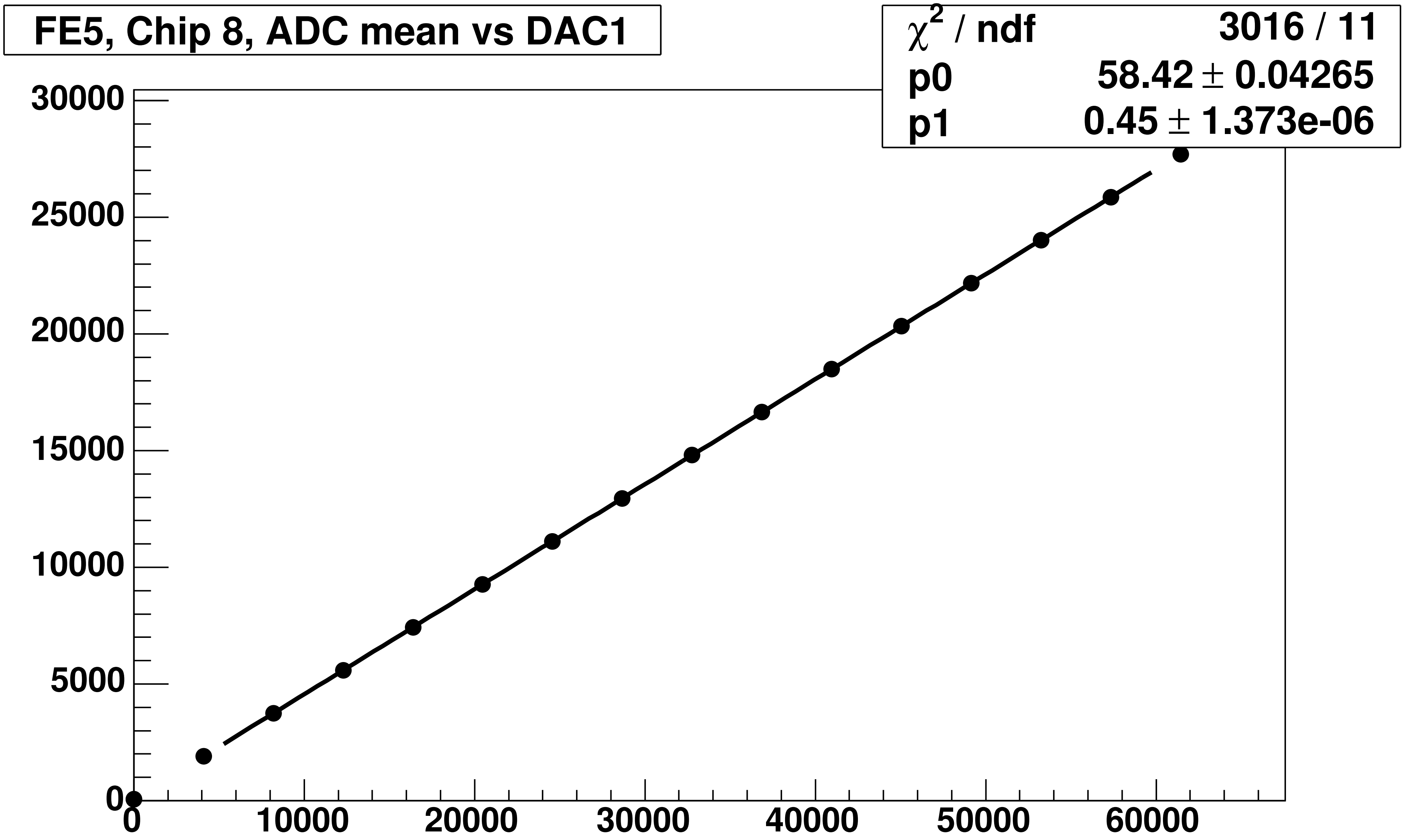

FE5, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000


FE5, Chip 8, ADC mean vs DAC0
χ^2 / ndf 11.46 / 11
p0 55.17 ± 0.03903
p1 -3.3e-06 ± 1.066e-06
55.25
55.2
55.15
55.1
55.05
55
54.95
54.9
54.85
54.8
0
10000
20000
30000
40000
50000
60000

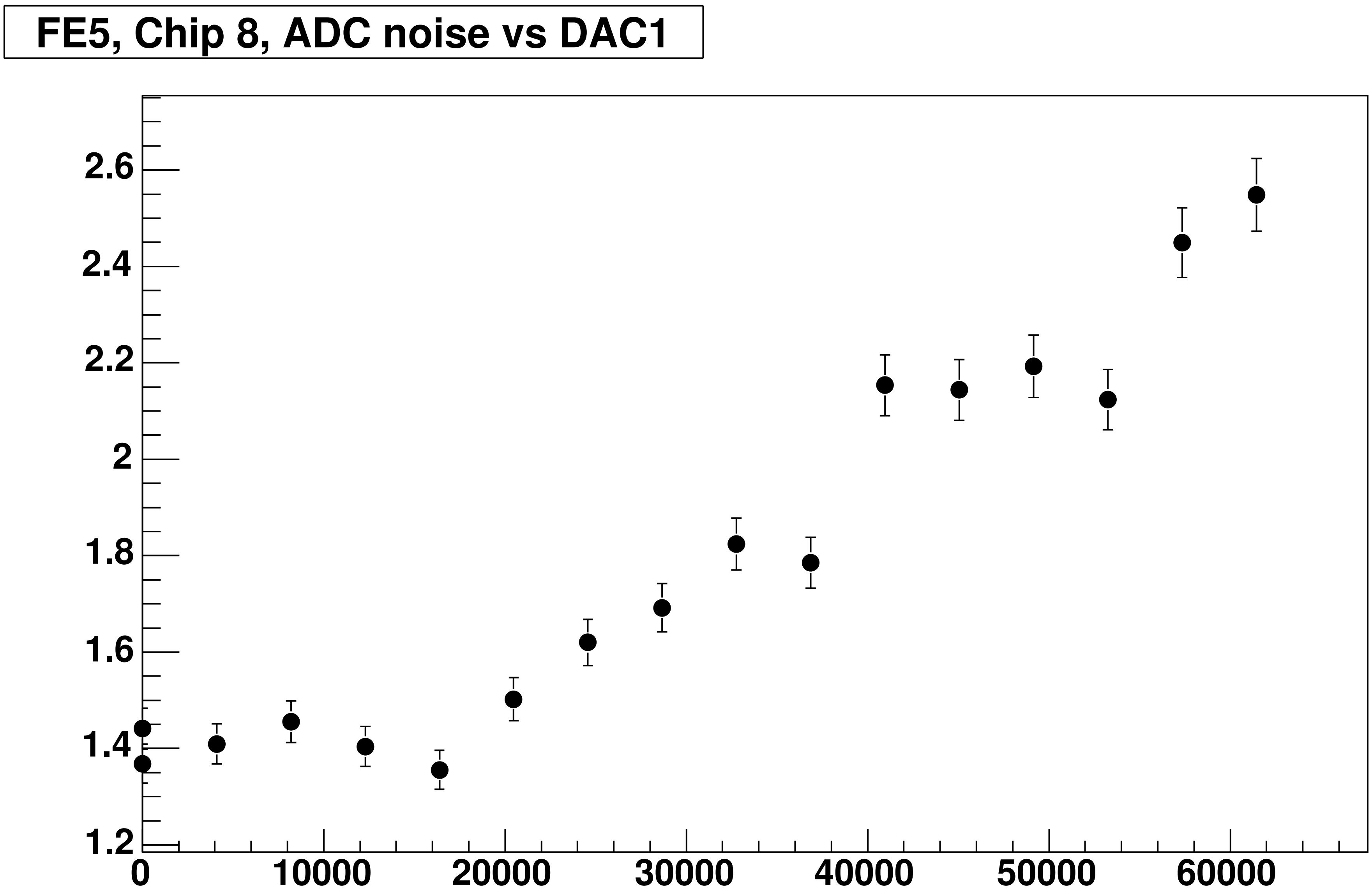


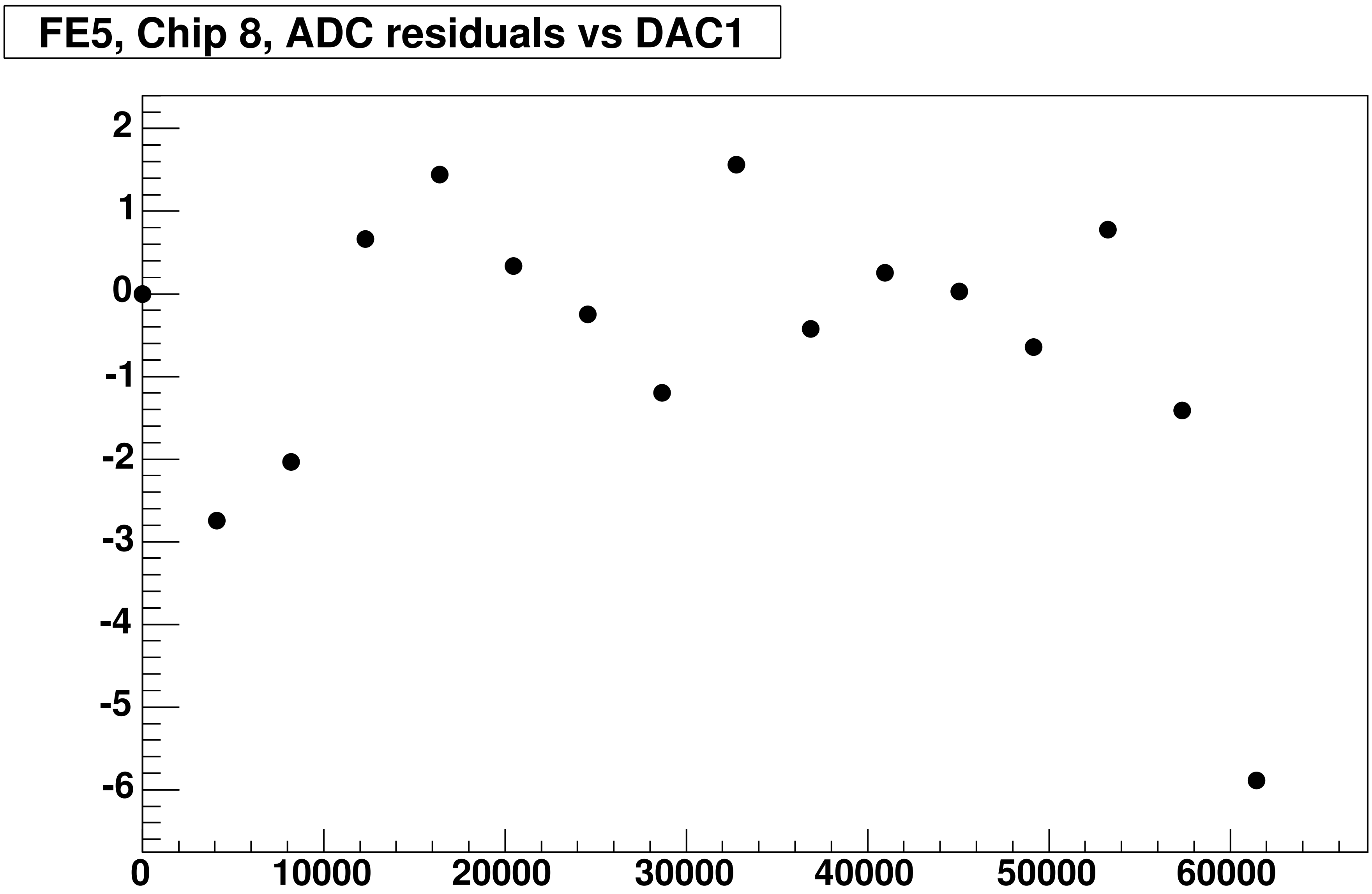
FE5, Chip 8, ADC noise vs DAC0
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

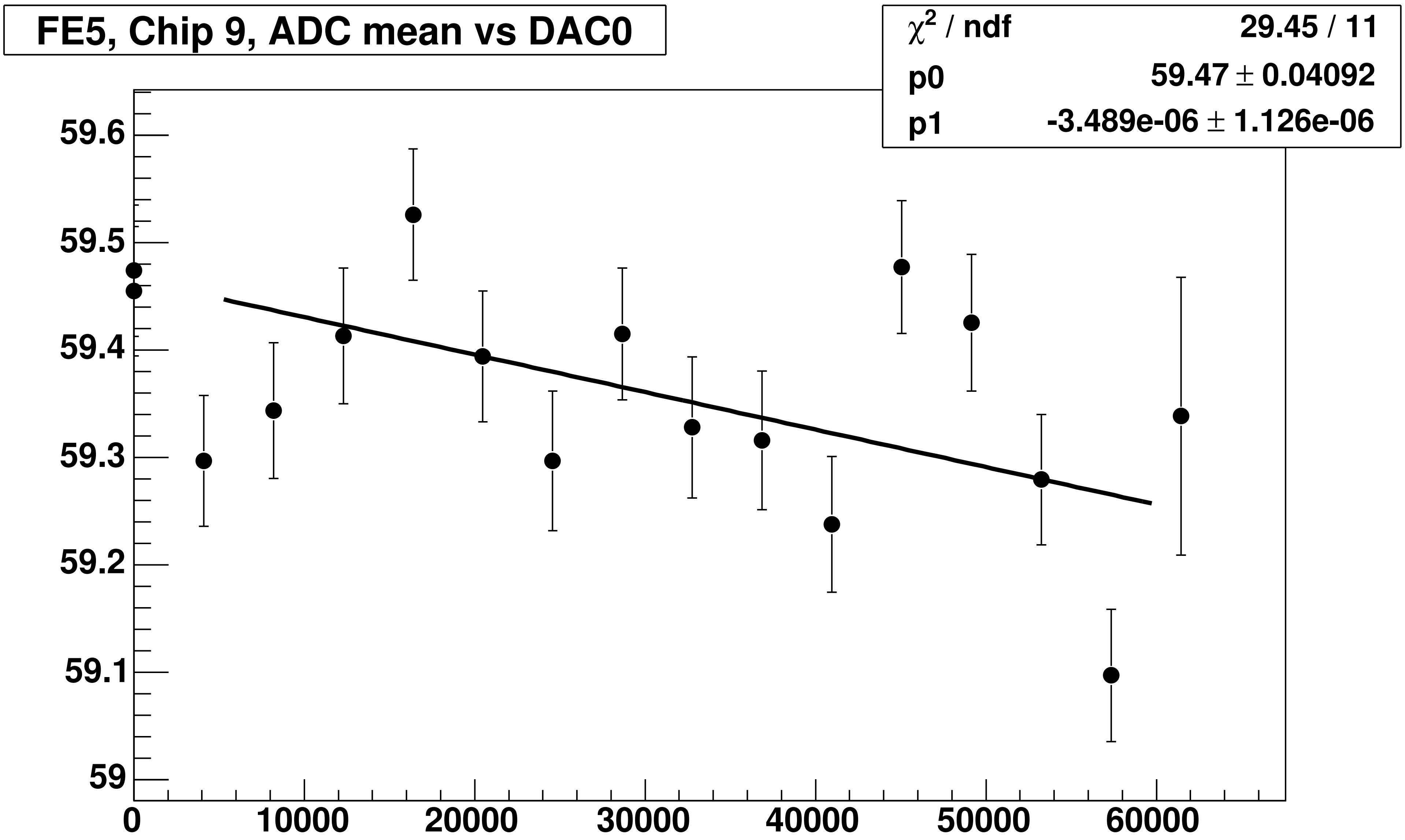

FE5, Chip 8, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



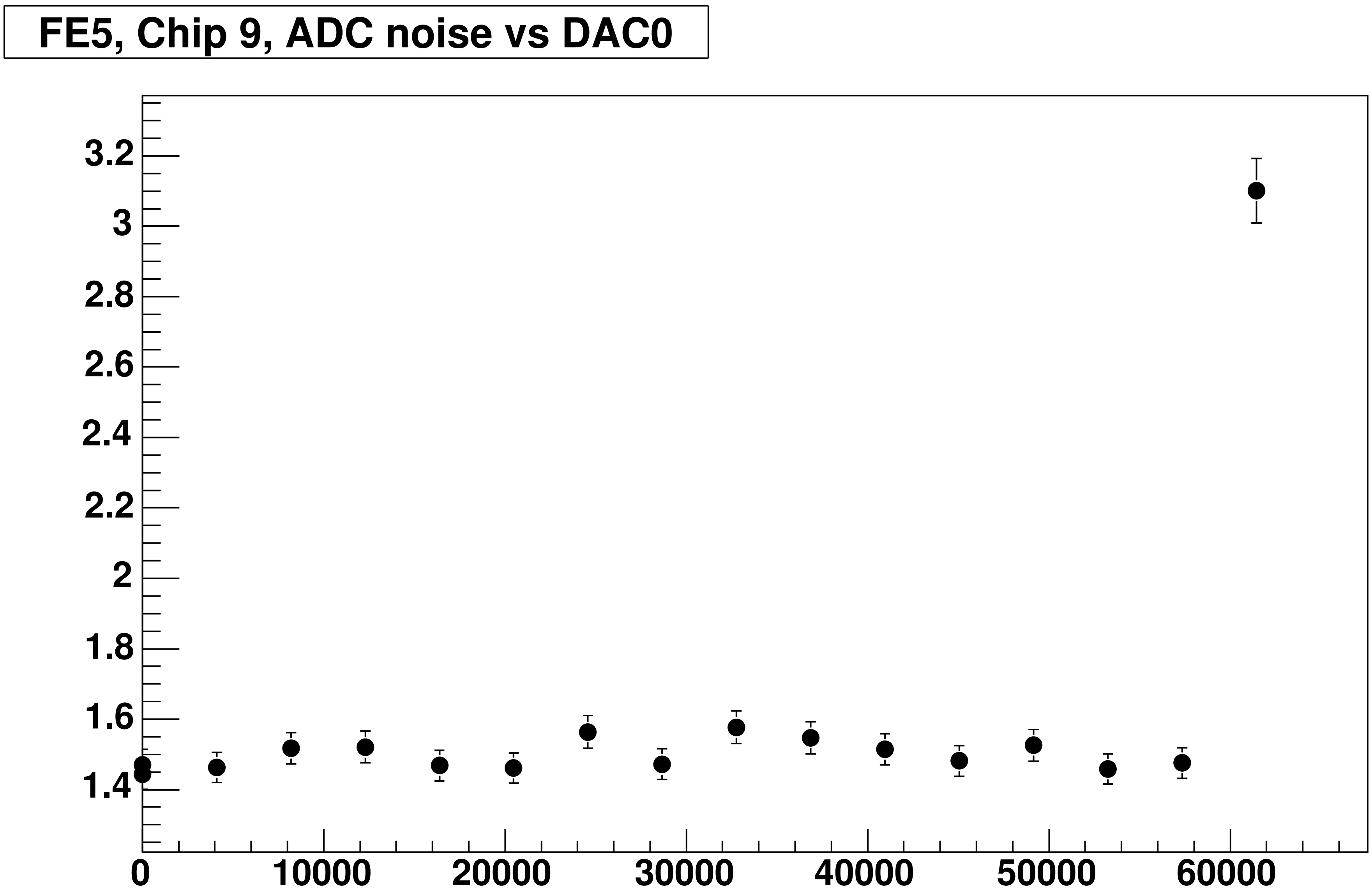
FE5, Chip 8, ADC mean vs DAC1
χ^2 / ndf 3016 / 11
p0 58.42 ± 0.04265
p1 0.45 ± 1.373e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

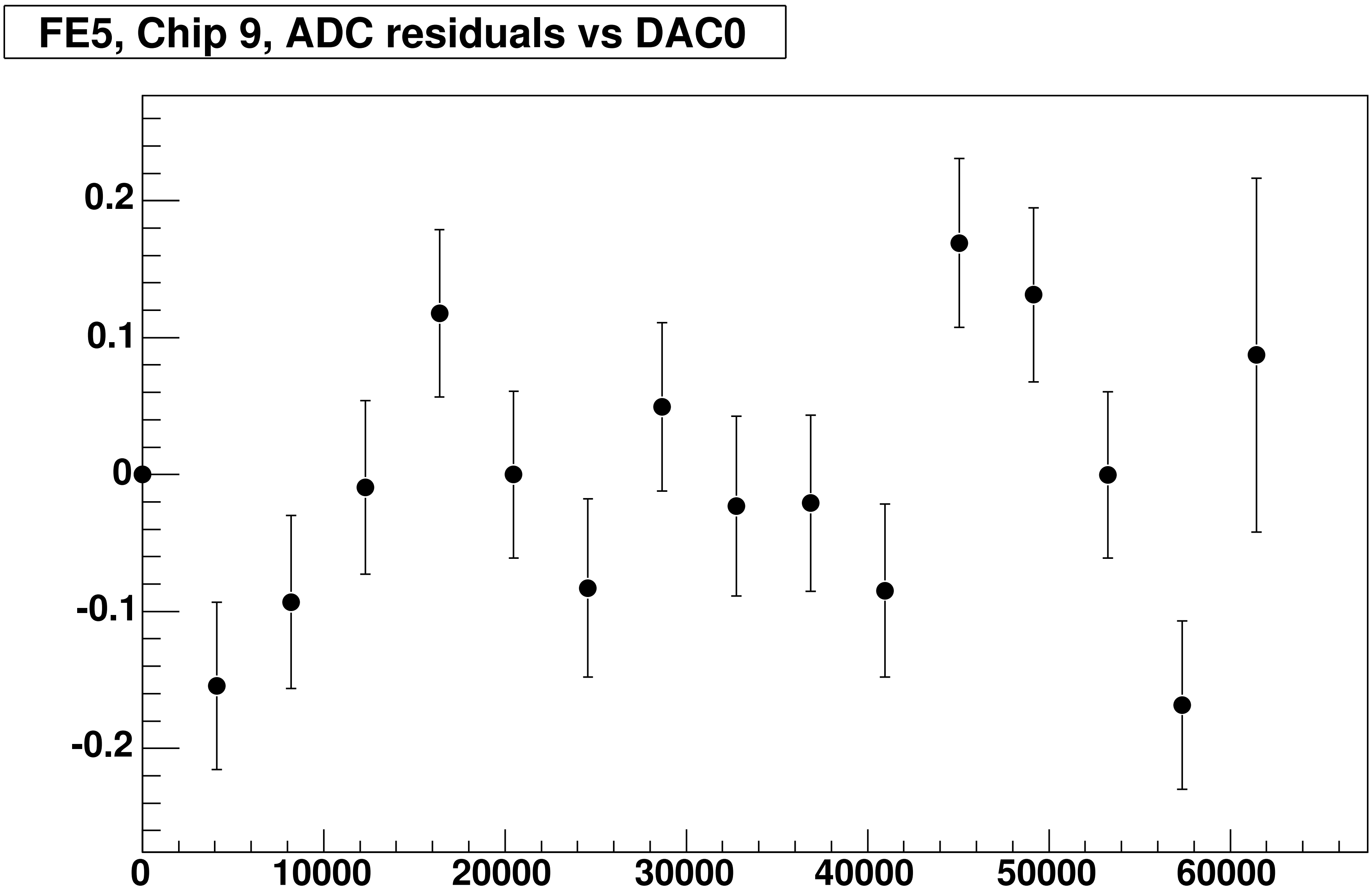

FE5, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

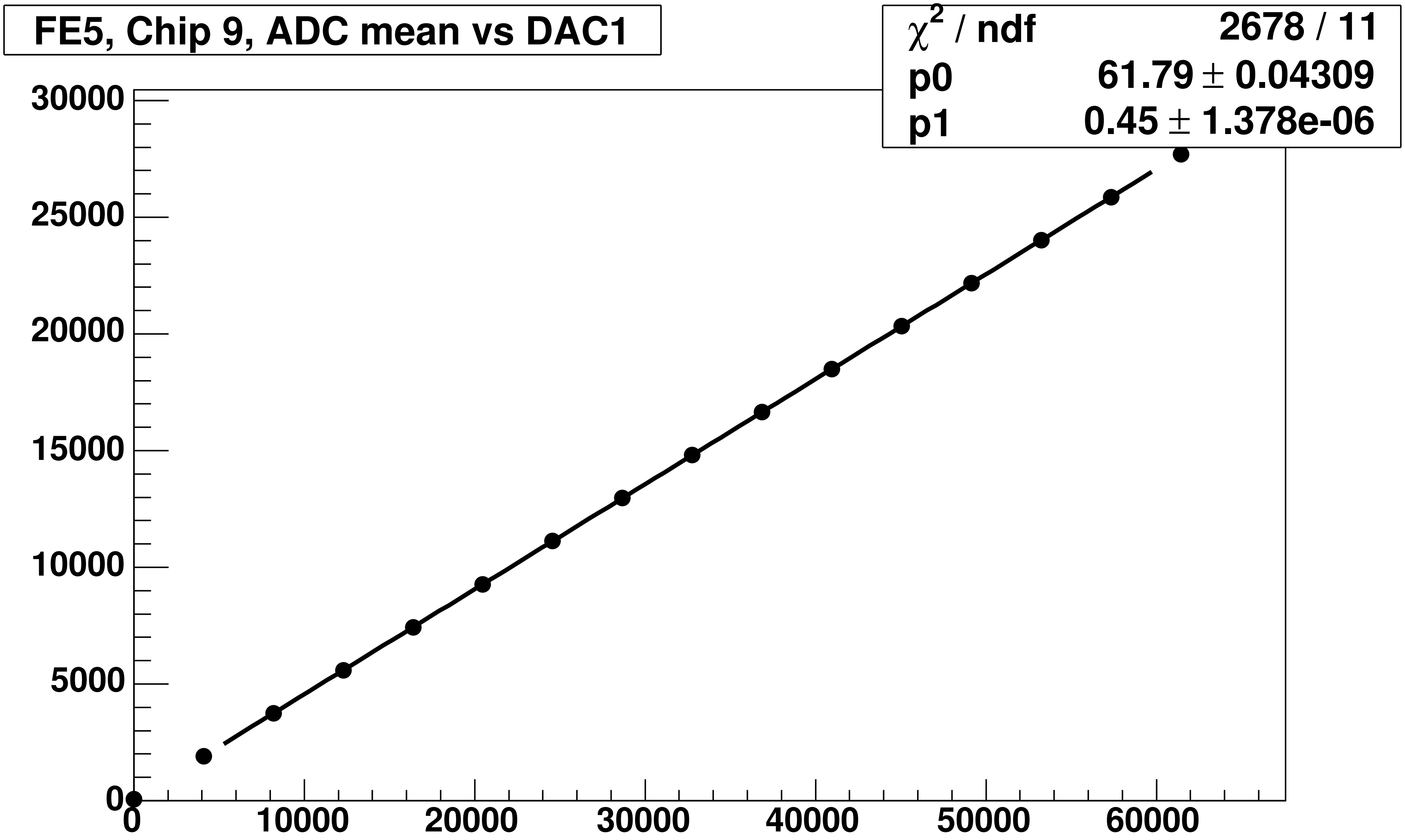


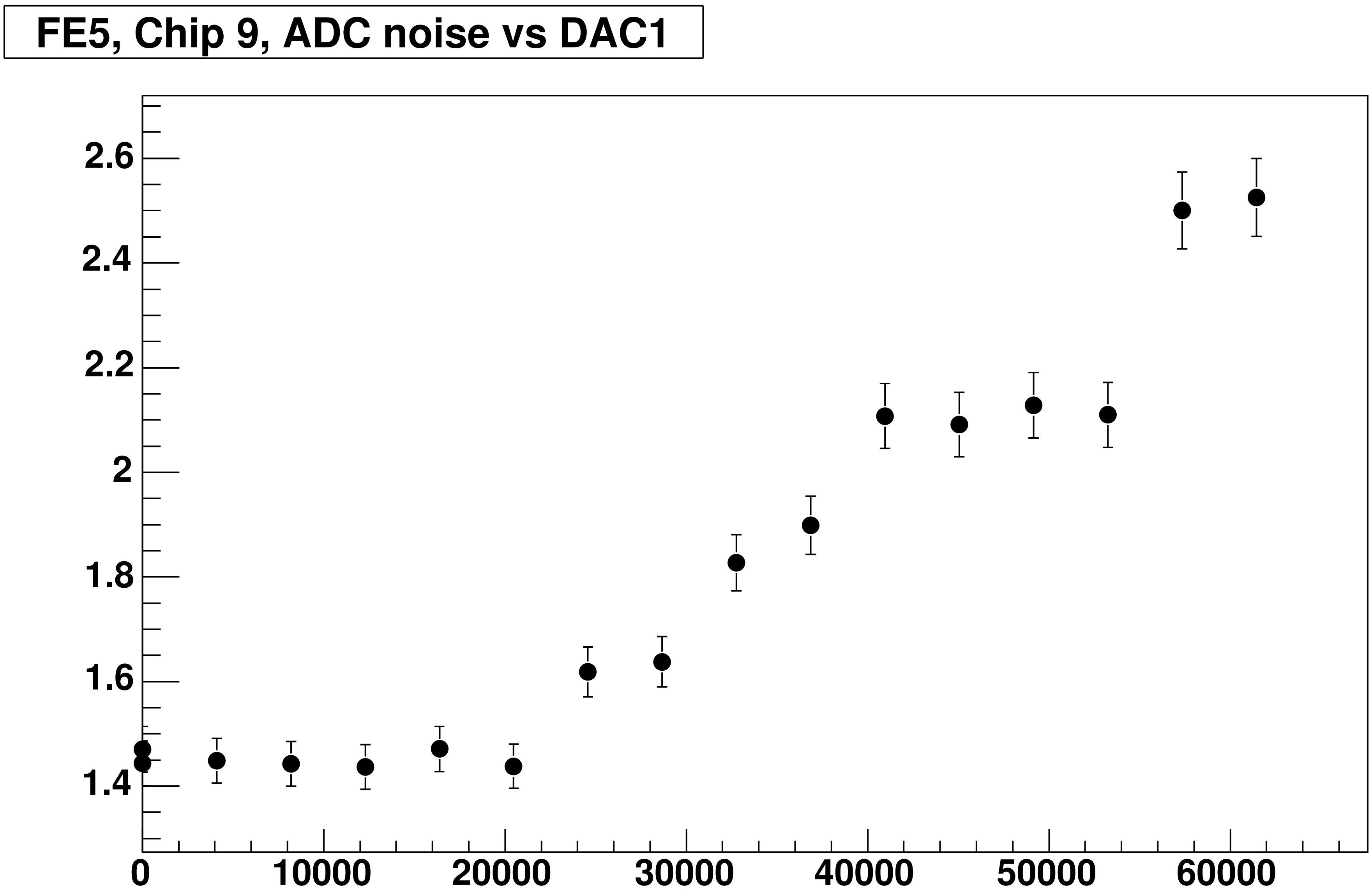
FE5, Chip 9, ADC mean vs DAC0
χ^2 / ndf 29.45 / 11
p0 59.47 ± 0.04092
p1 -3.489e-06 ± 1.126e-06
59.6
59.5
59.4
59.3
59.2
59.1
59
0
10000
20000
30000
40000
50000
60000

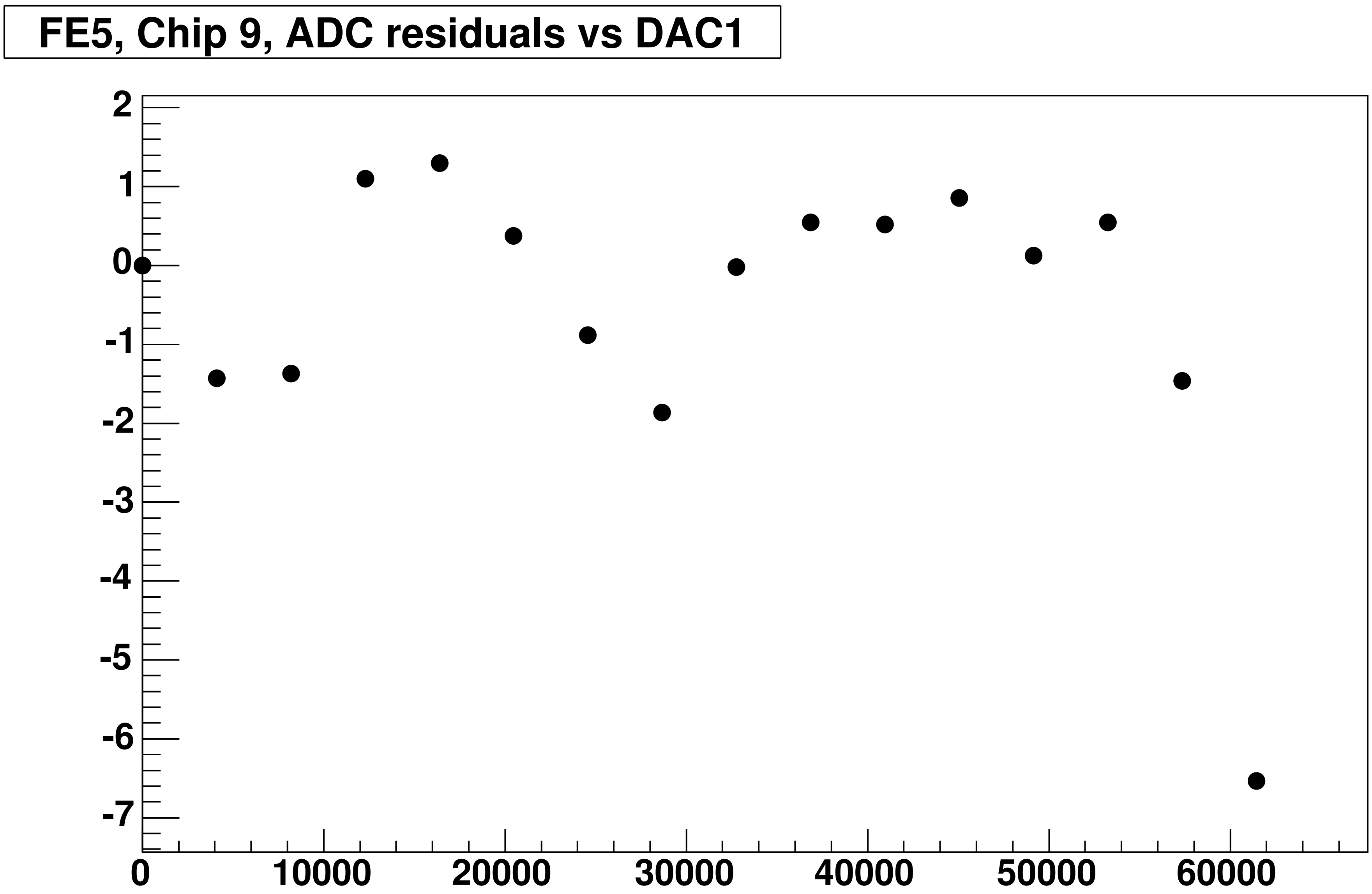

FE5, Chip 9, ADC noise vs DAC0
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

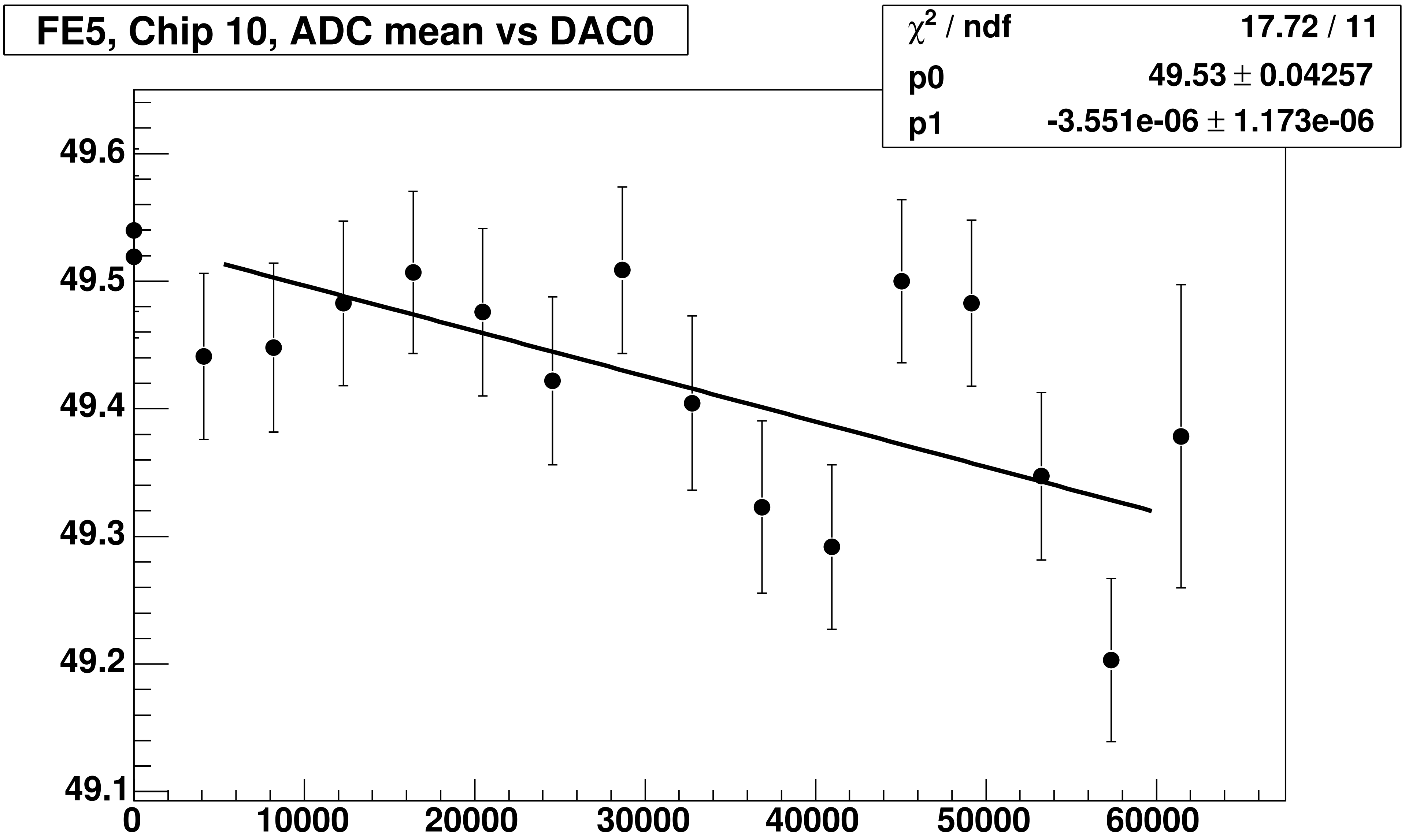


FE5, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

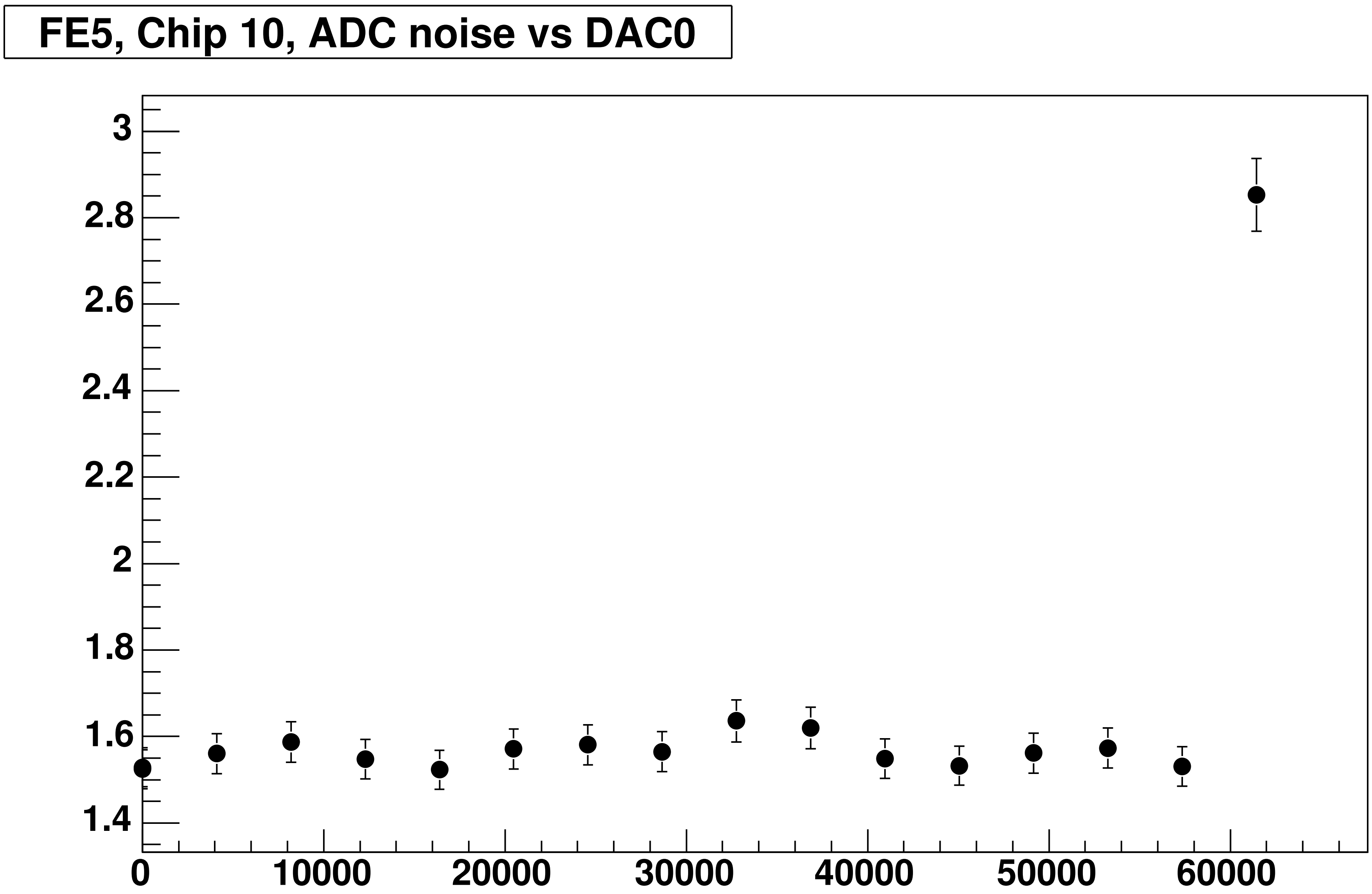

FE5, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2678 / 11
p0 61.79 ± 0.04309
p1 0.45 ± 1.378e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

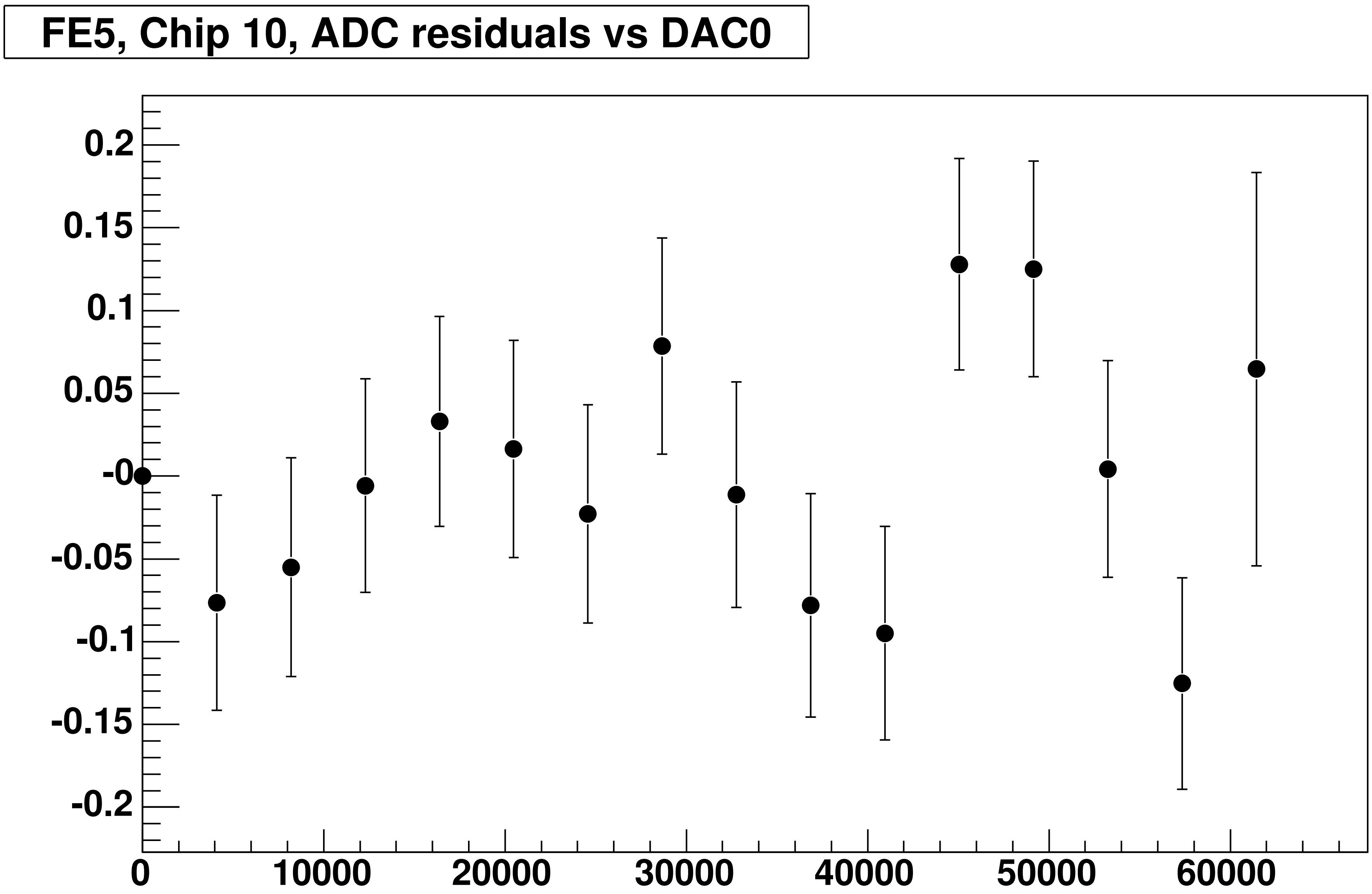

FE5, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

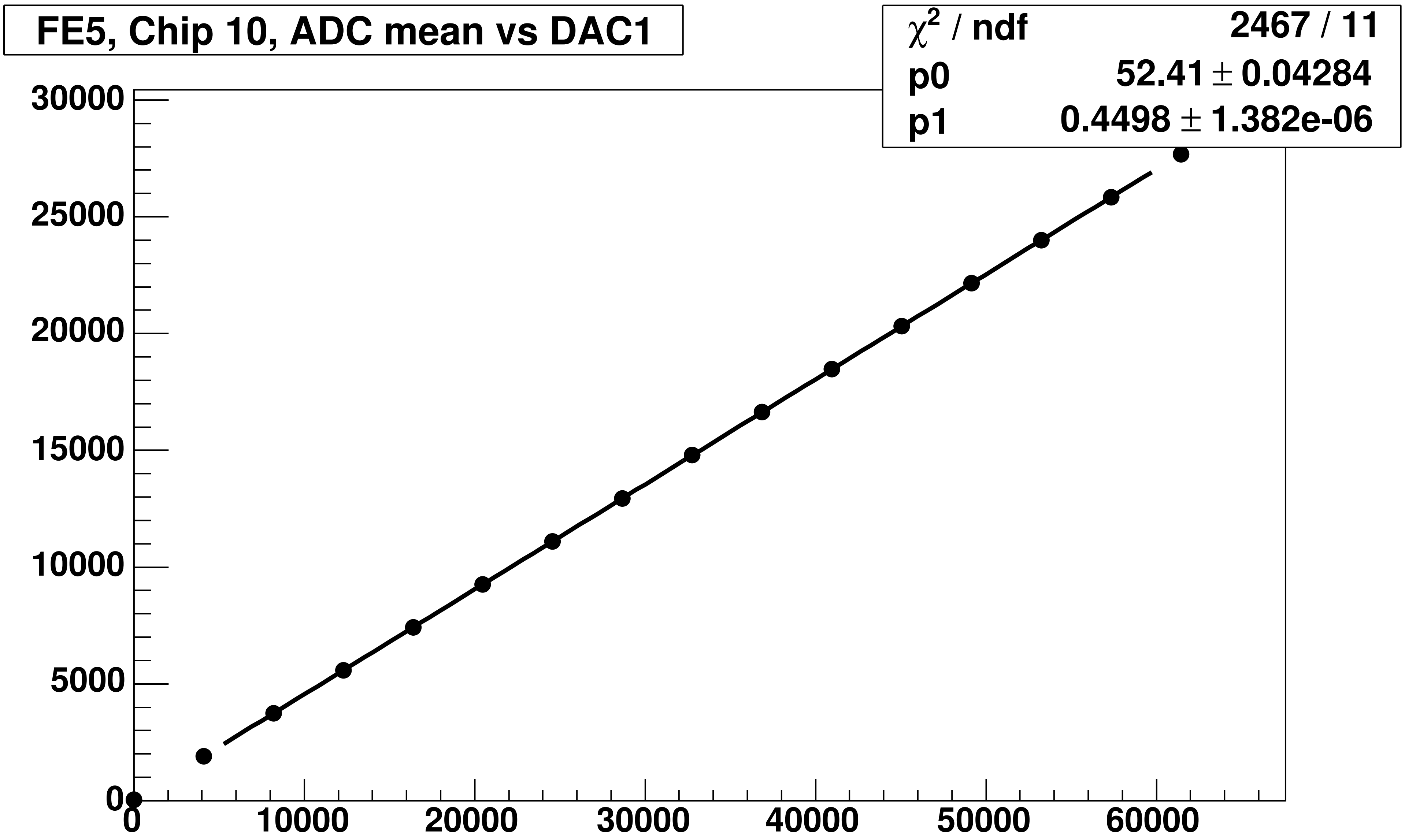

FE5, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

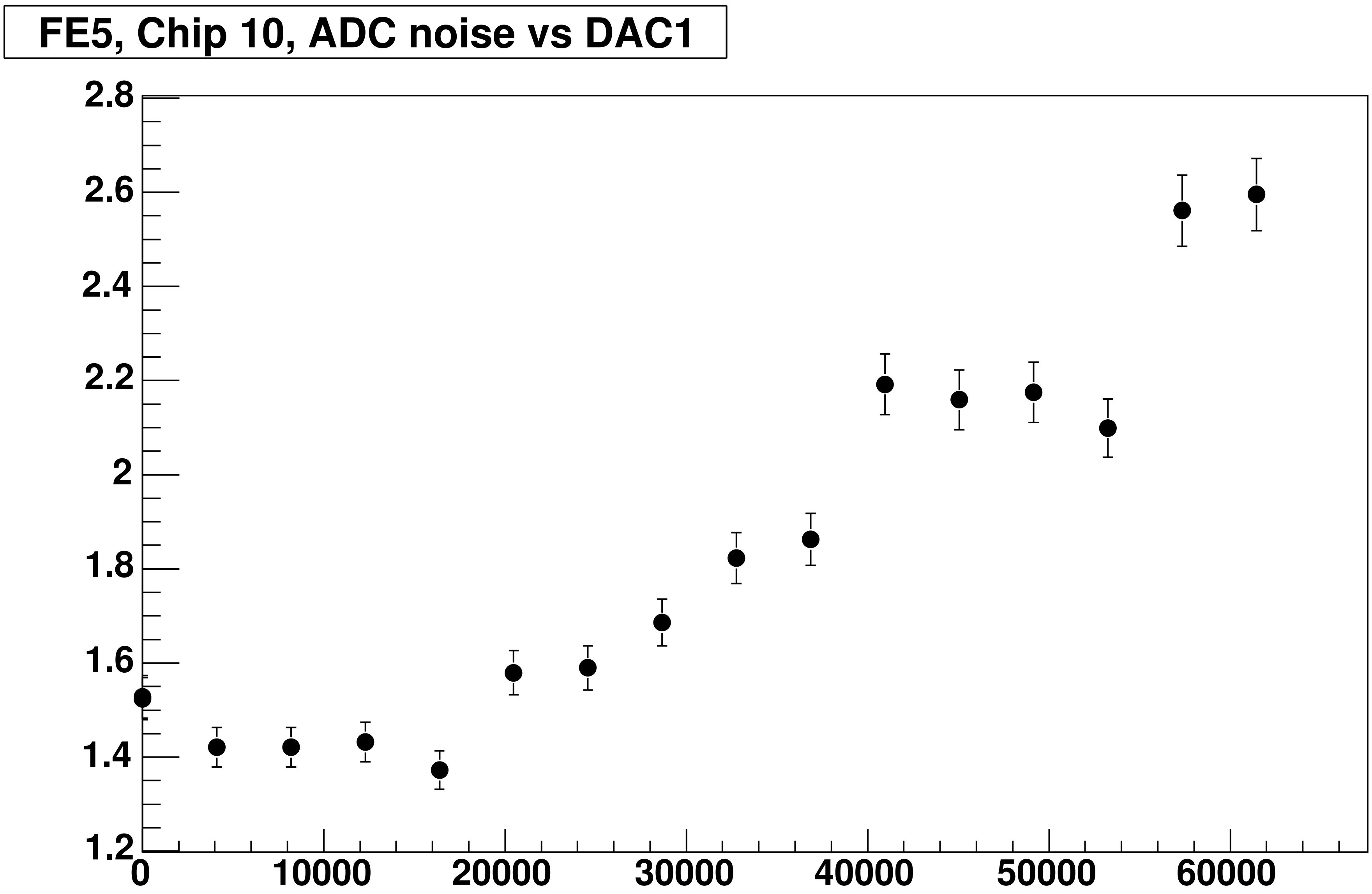


FE5, Chip 10, ADC mean vs DAC0
χ^2 / ndf 17.72 / 11
p0 49.53 ± 0.04257
p1 -3.551e-06 ± 1.173e-06
49.6
49.5
49.4
49.3
49.2
49.1
0
10000
20000
30000
40000
50000
60000

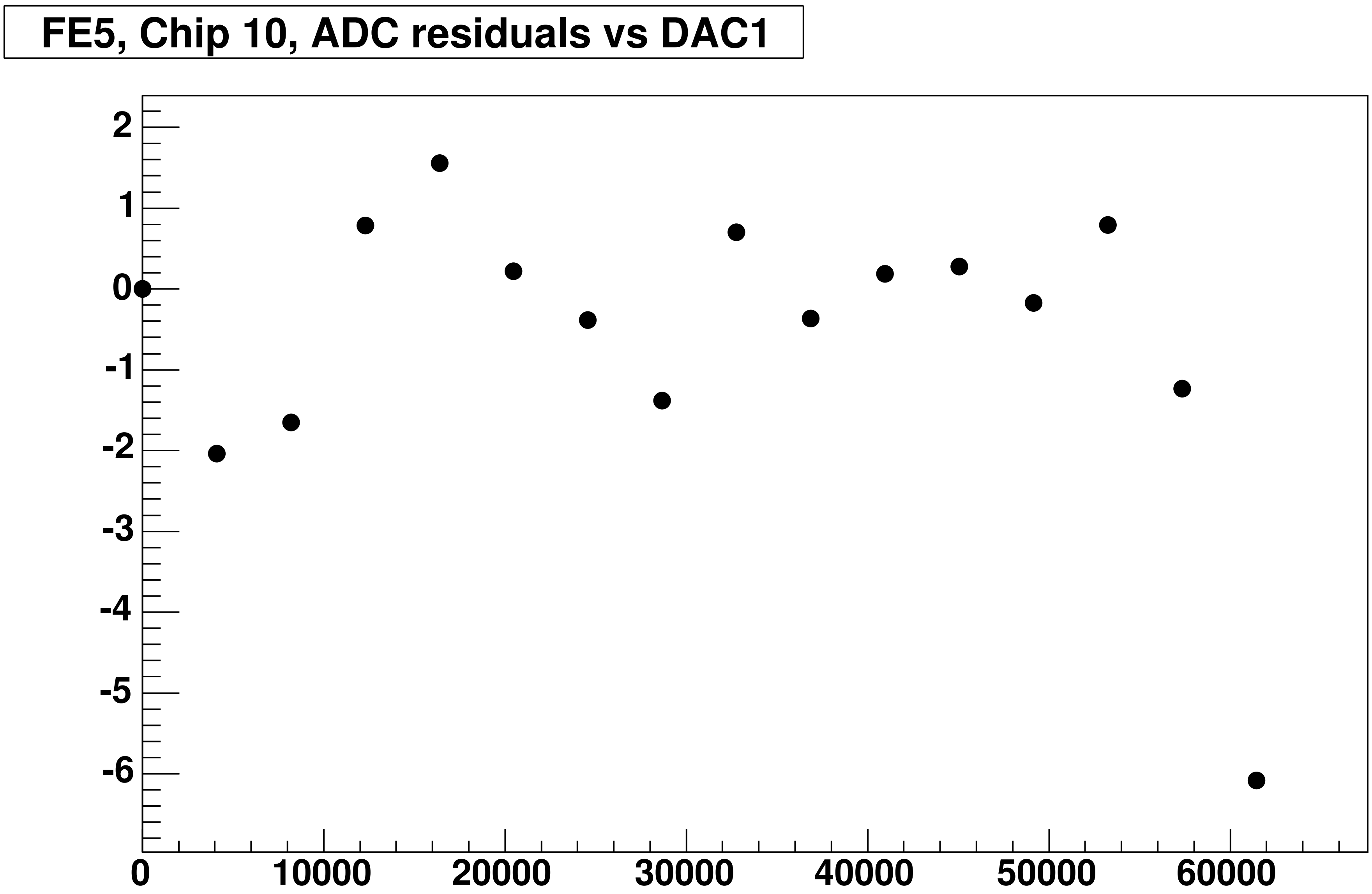

FE5, Chip 10, ADC noise vs DAC0
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

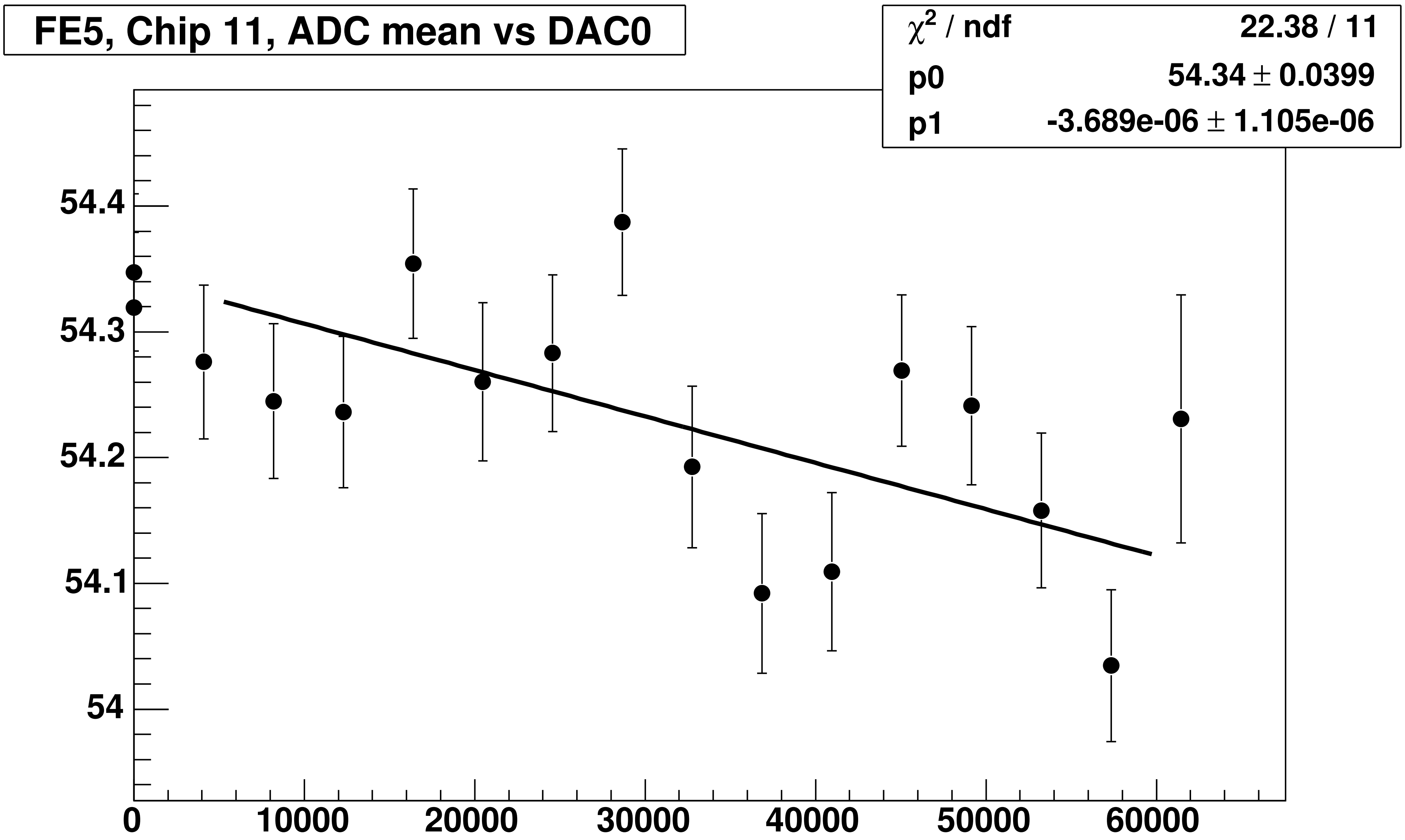

FE5, Chip 10, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

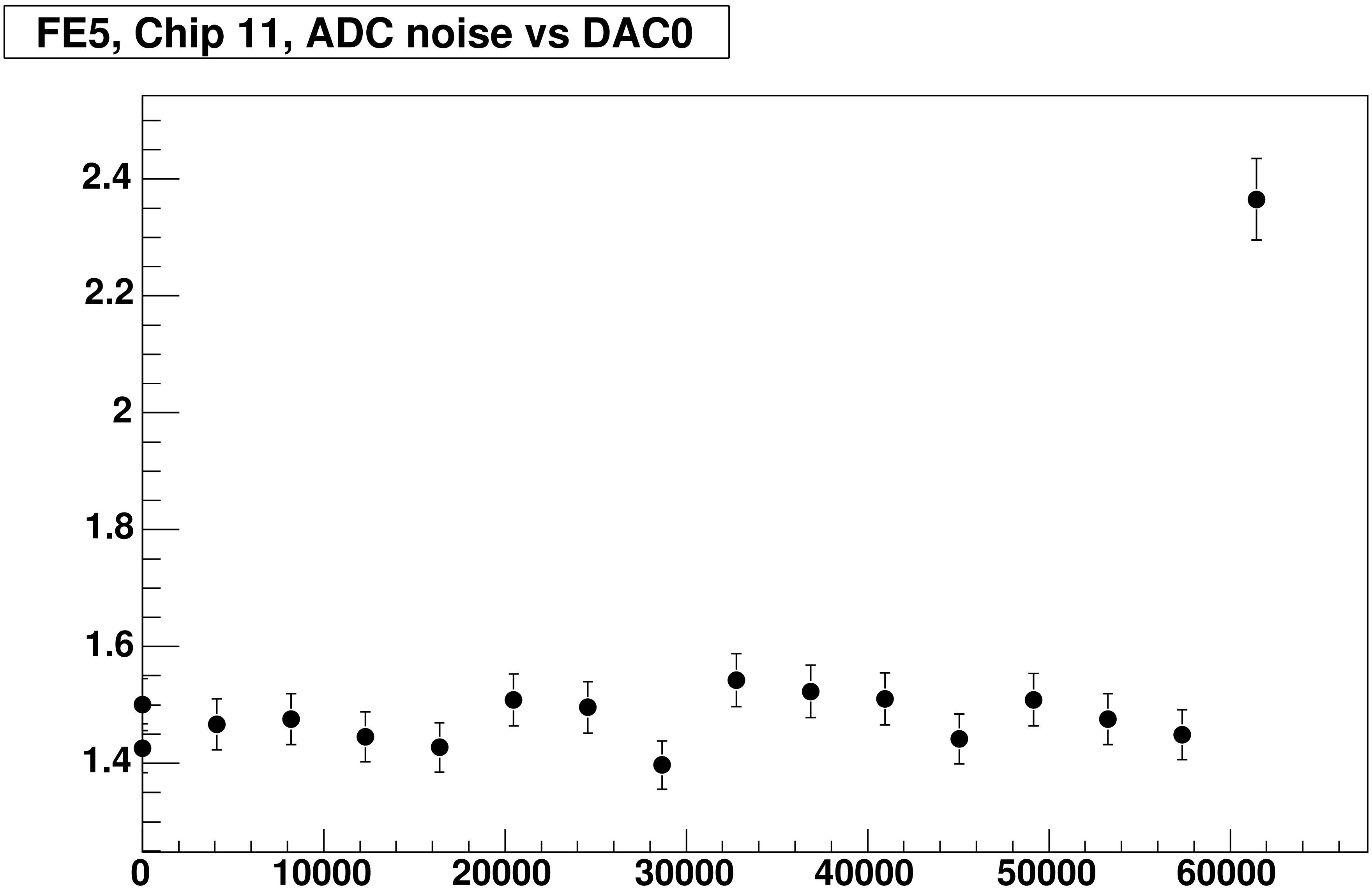

FE5, Chip 10, ADC mean vs DAC1
χ^2 / ndf 2467 / 11
p0 52.41 ± 0.04284
p1 0.4498 ± 1.382e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



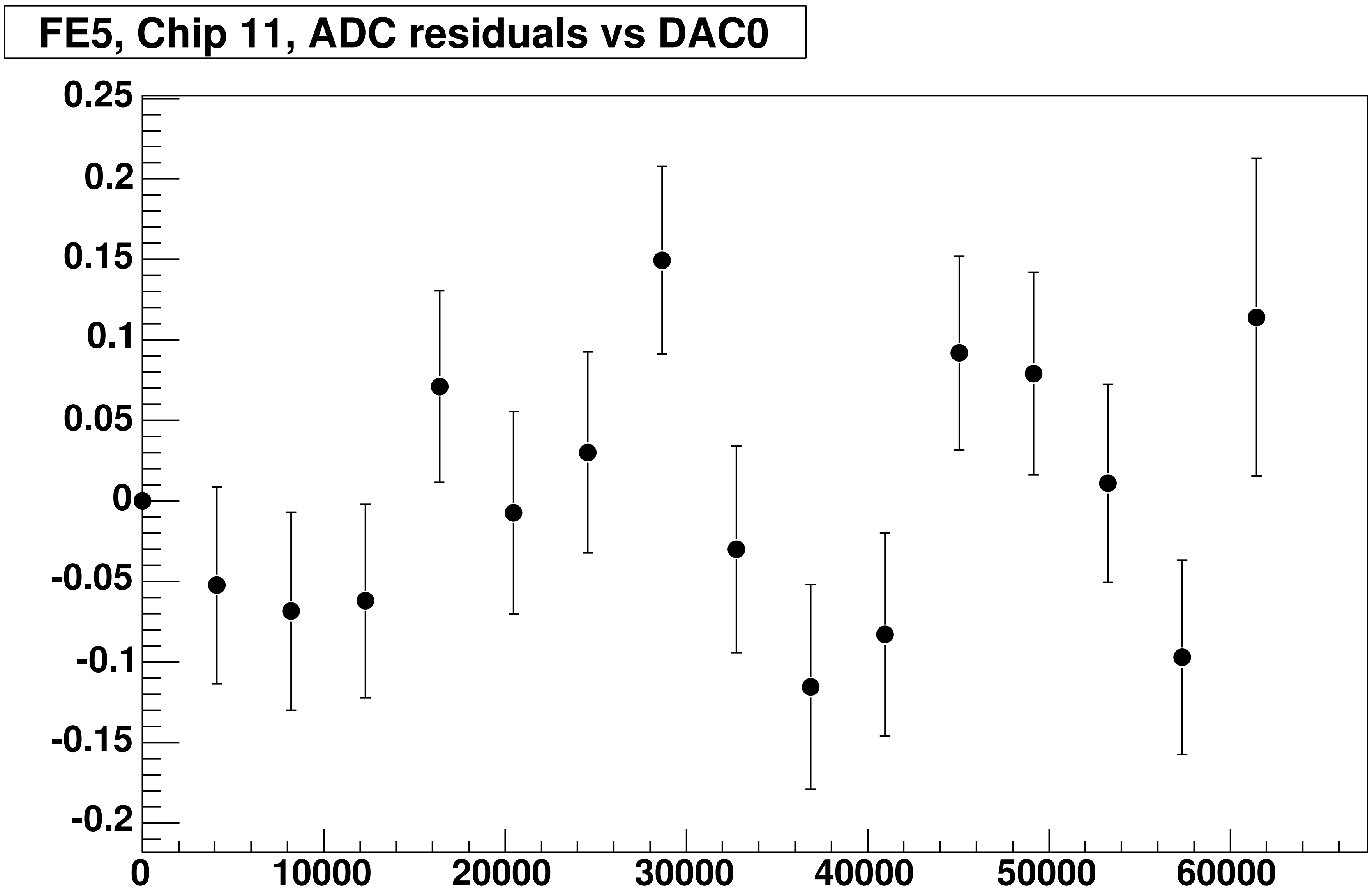
FE5, Chip 10, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

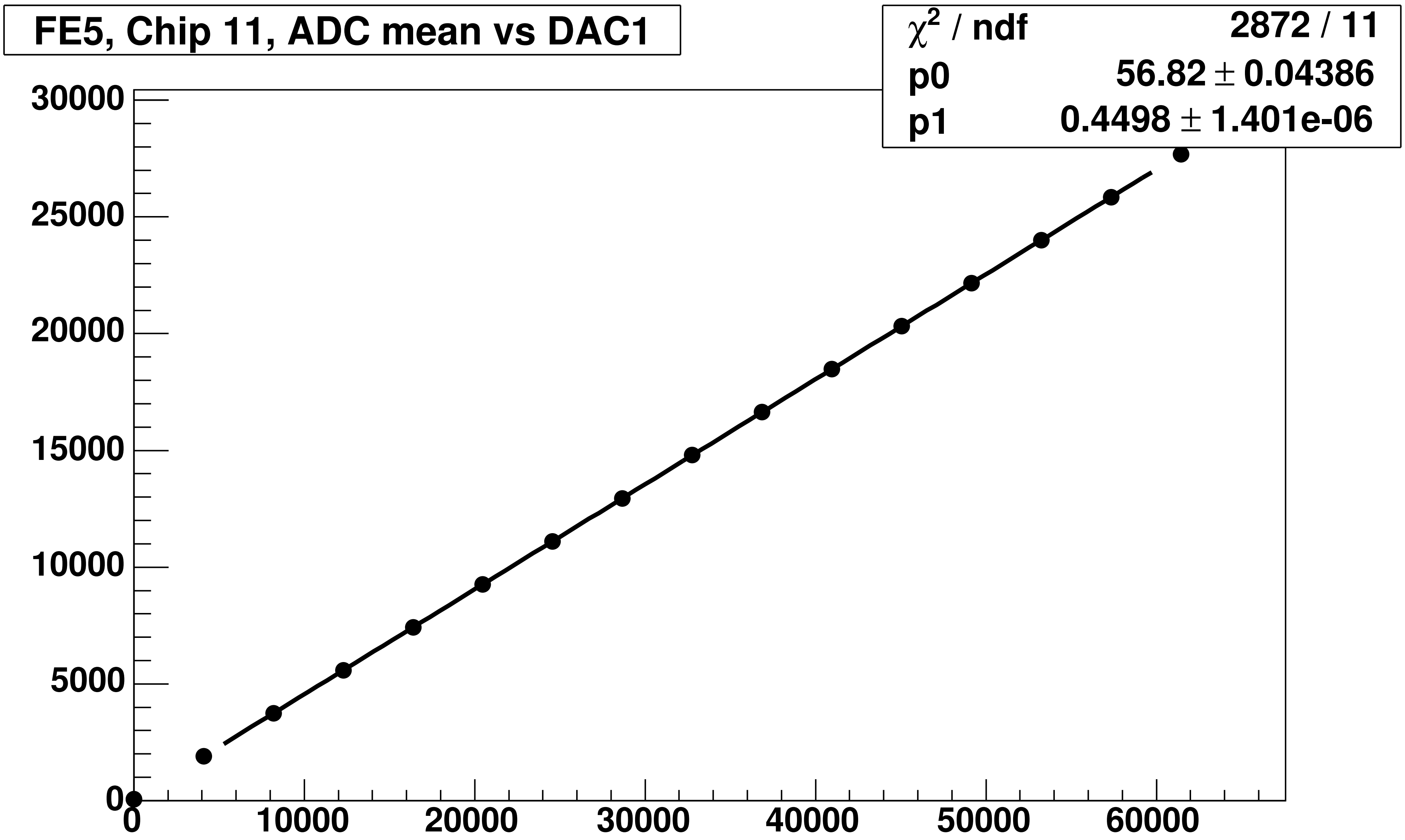

FE5, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

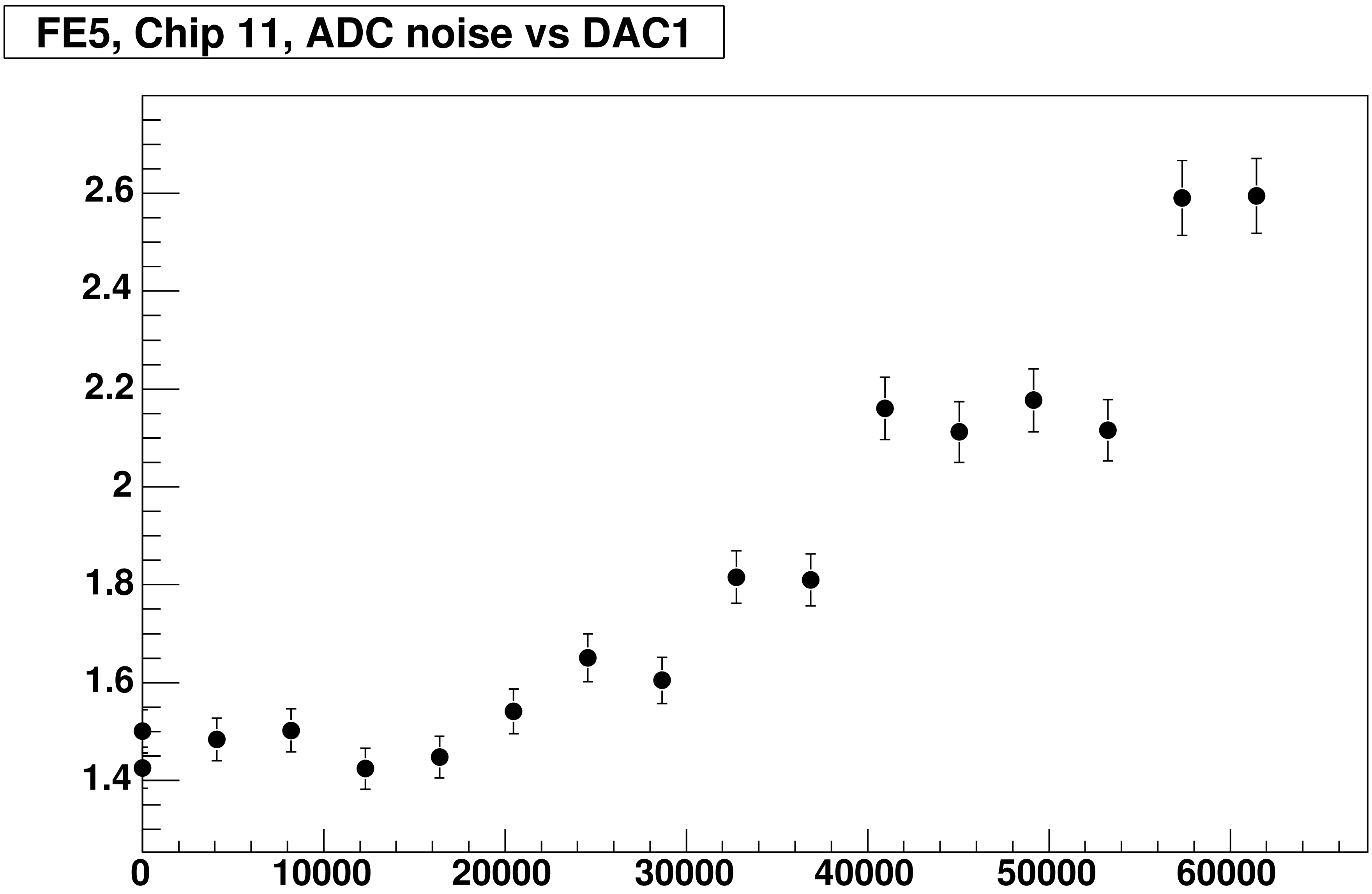

FE5, Chip 11, ADC mean vs DAC0
χ^2 / ndf 22.38 / 11
p0 54.34 ± 0.0399
p1 -3.689e-06 ± 1.105e-06
54.4
54.3
54.2
54.1
54
0
10000
20000
30000
40000
50000
60000

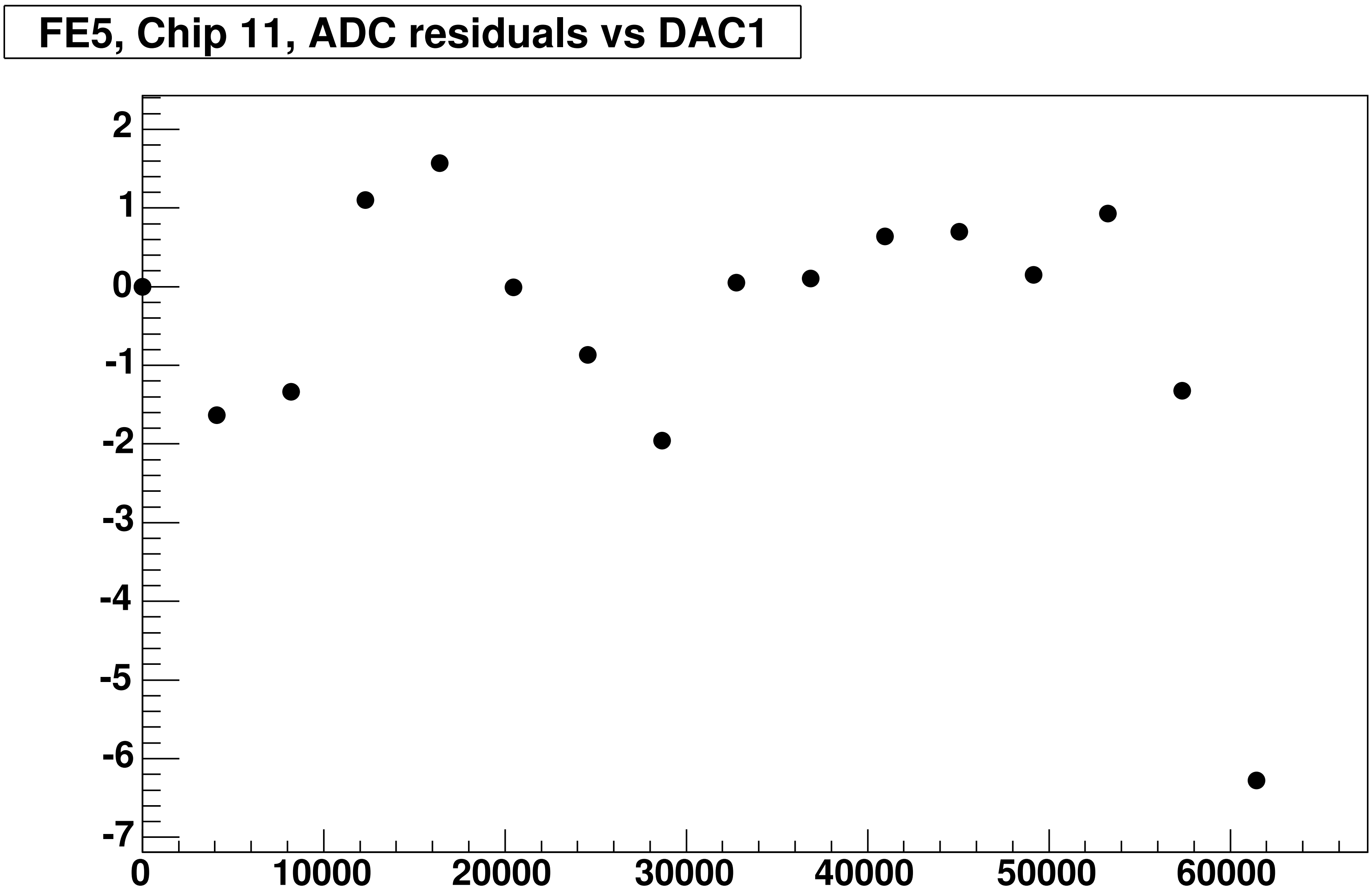


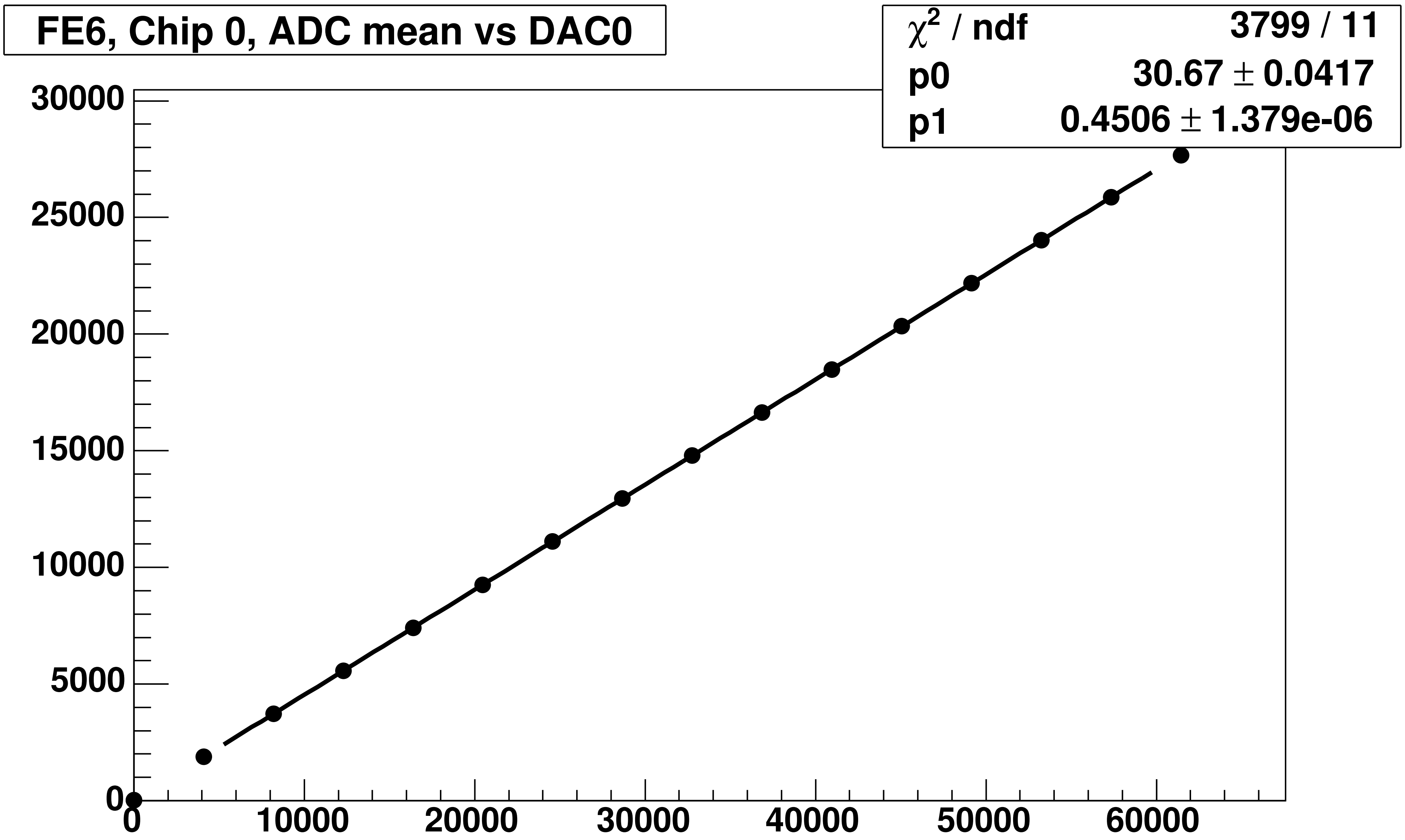
FE5, Chip 11, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

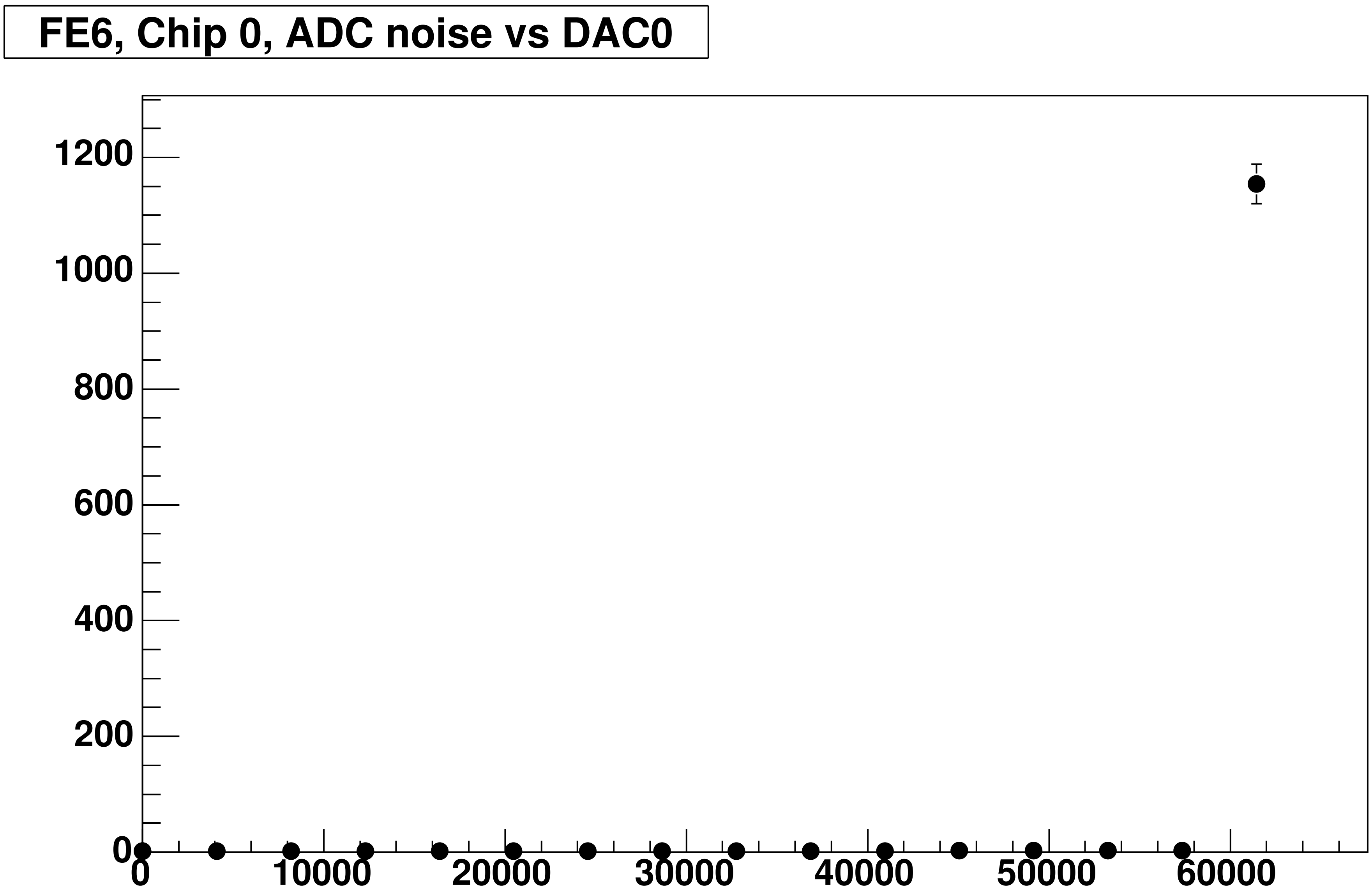

FE5, Chip 11, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

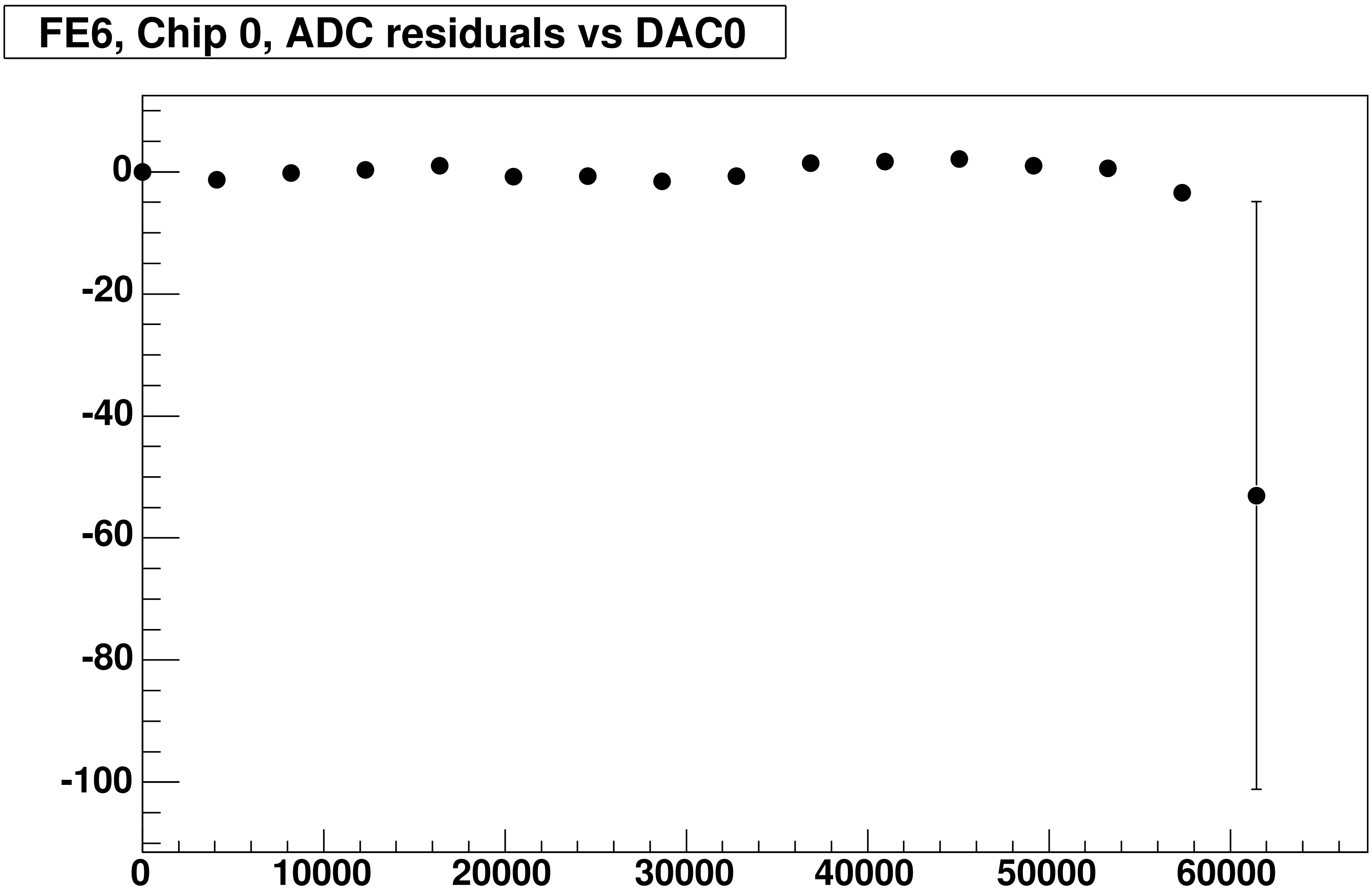

FE5, Chip 11, ADC mean vs DAC1
χ^2 / ndf 2872 / 11
p0 56.82 ± 0.04386
p1 0.4498 ± 1.401e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

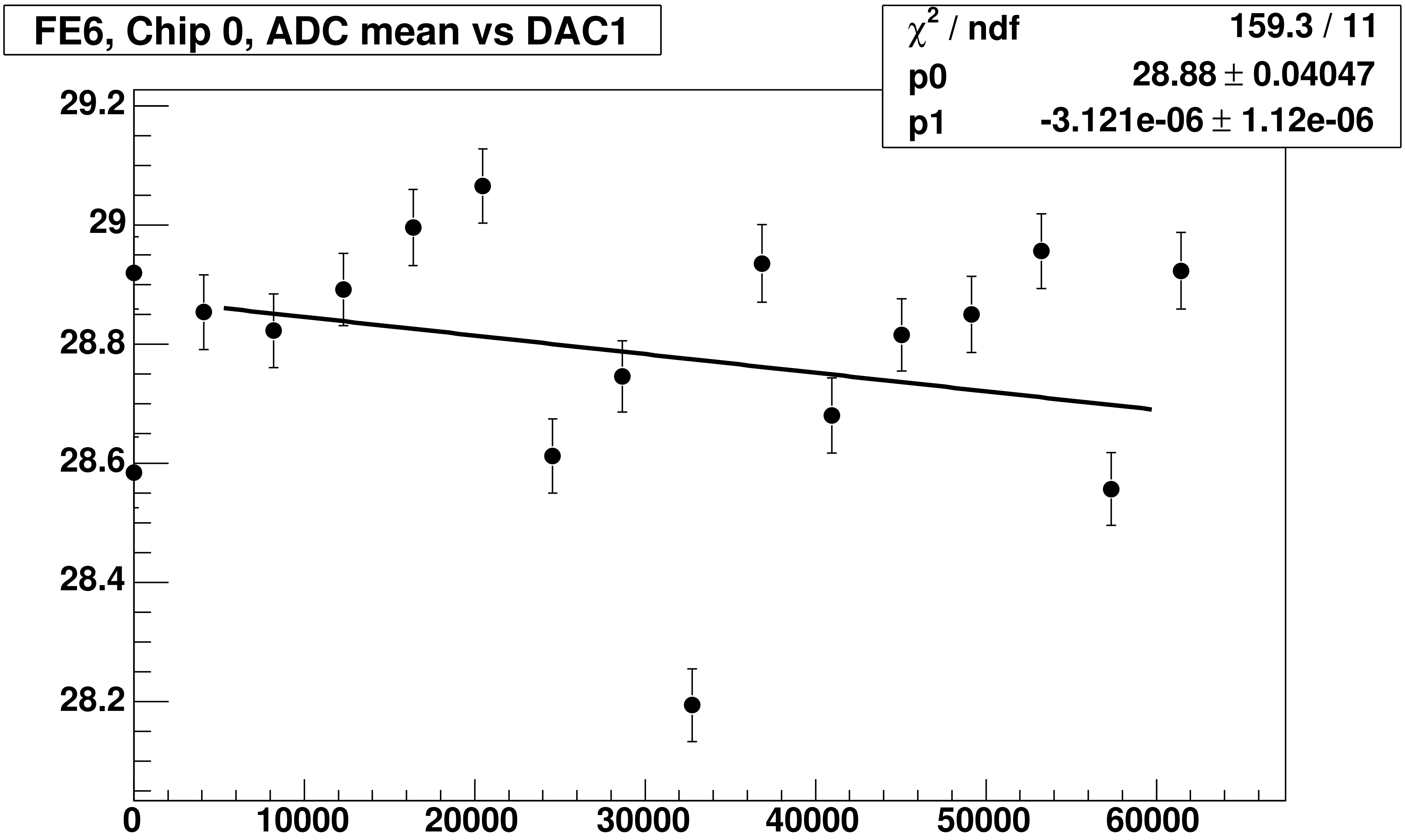

FE5, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

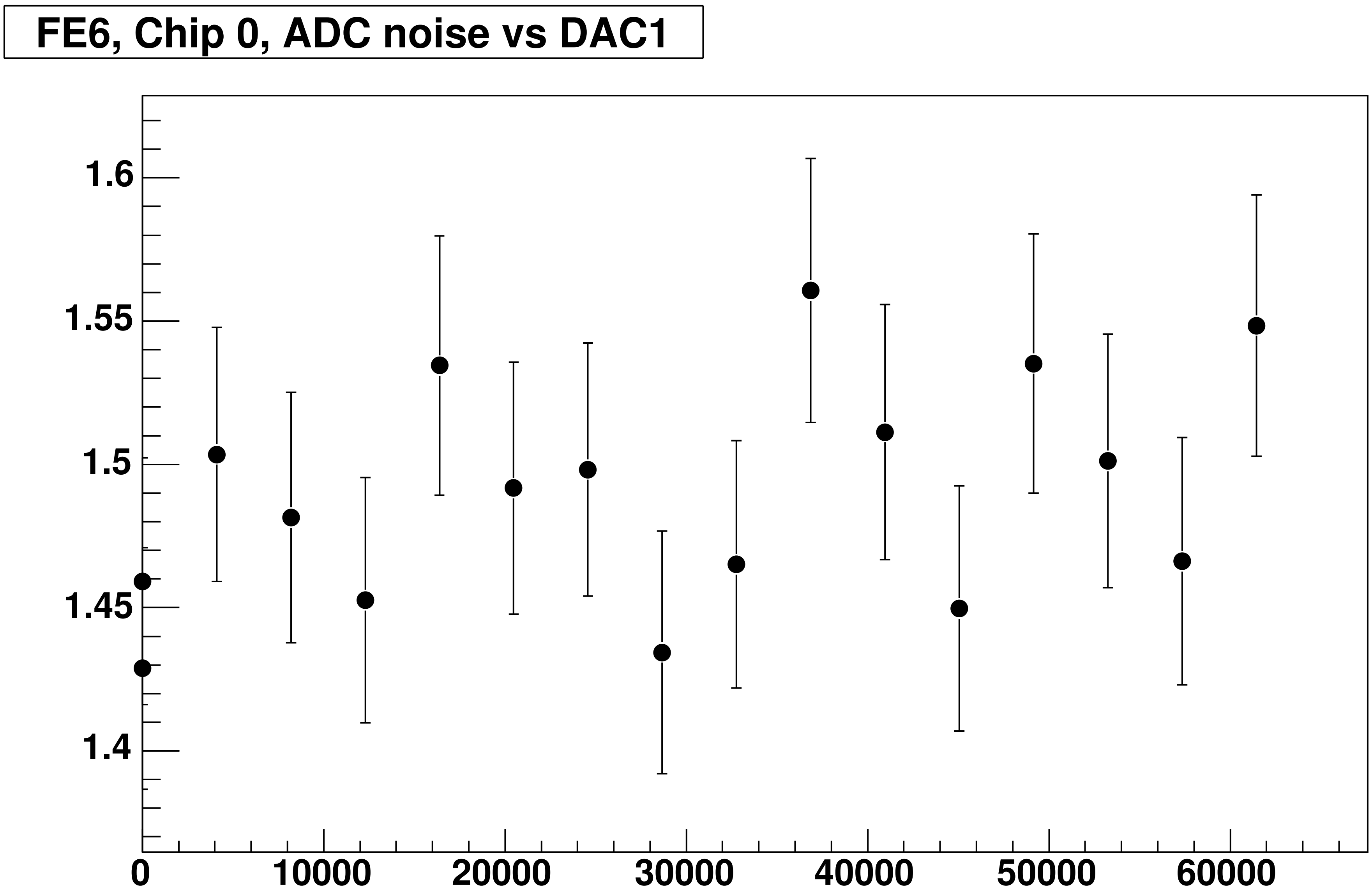

FE6, Chip 0, ADC mean vs DAC0
χ^2 / ndf 3799 / 11
p0 30.67 ± 0.0417
p1 0.4506 ± 1.379e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

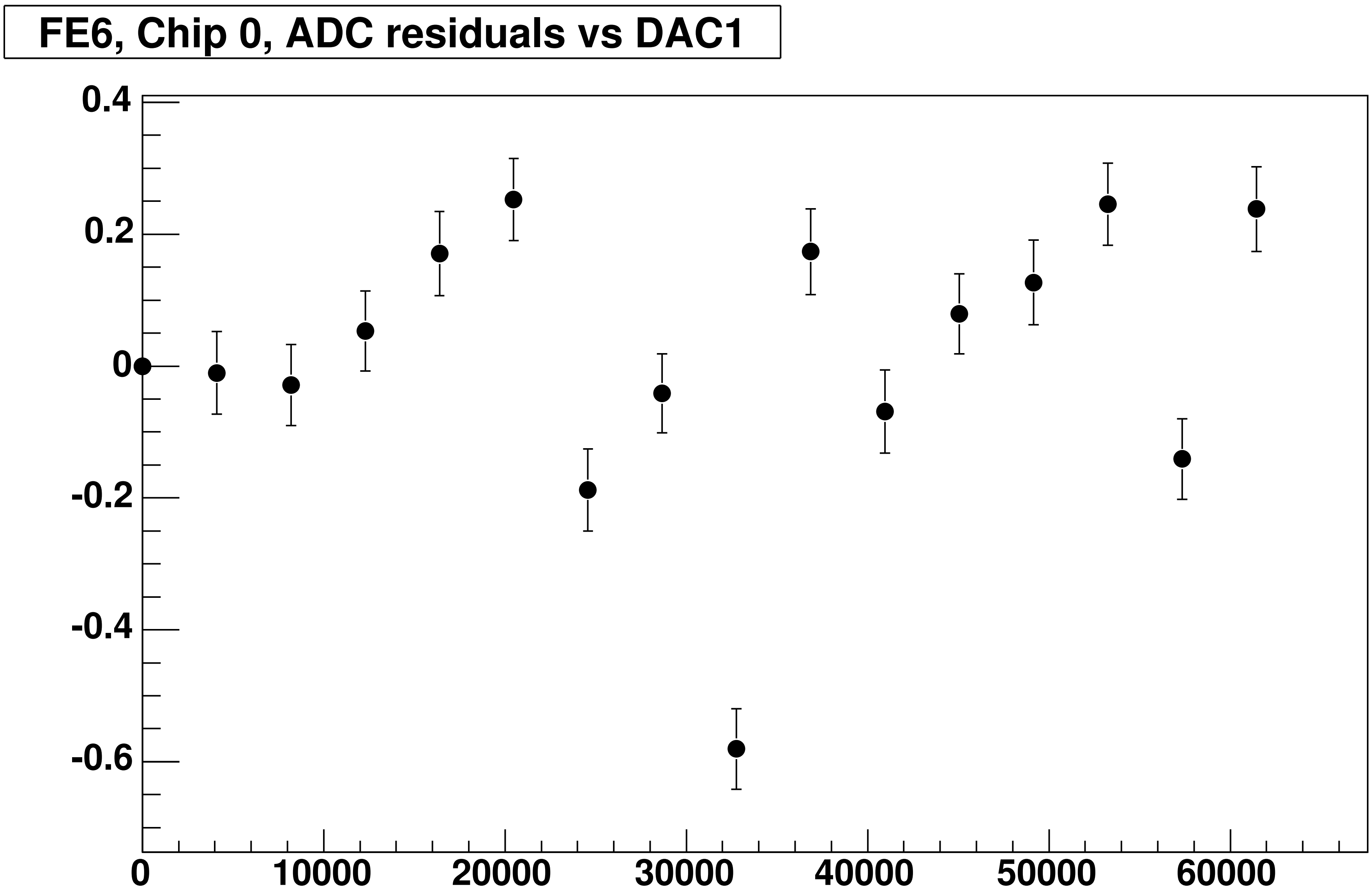

FE6, Chip 0, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

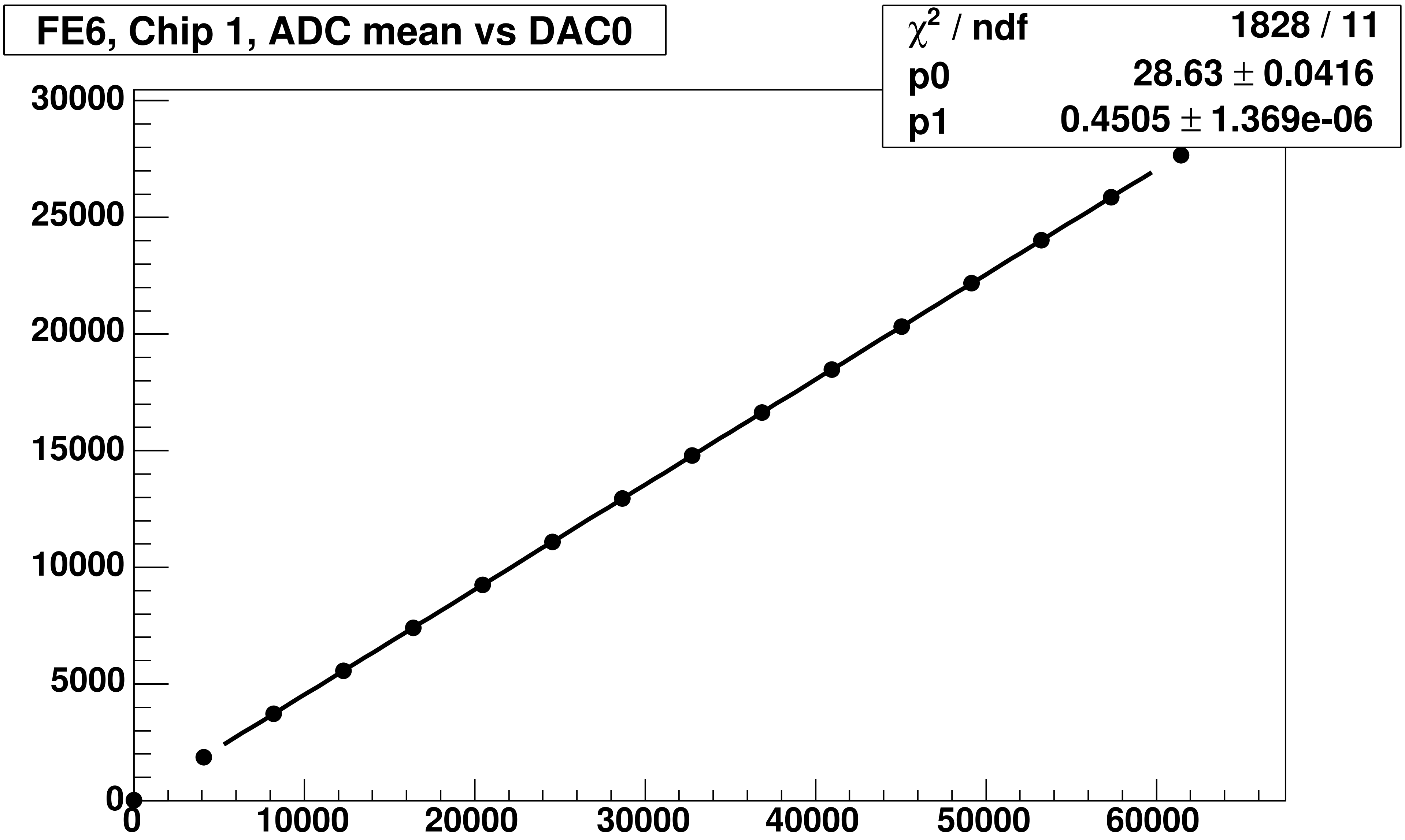


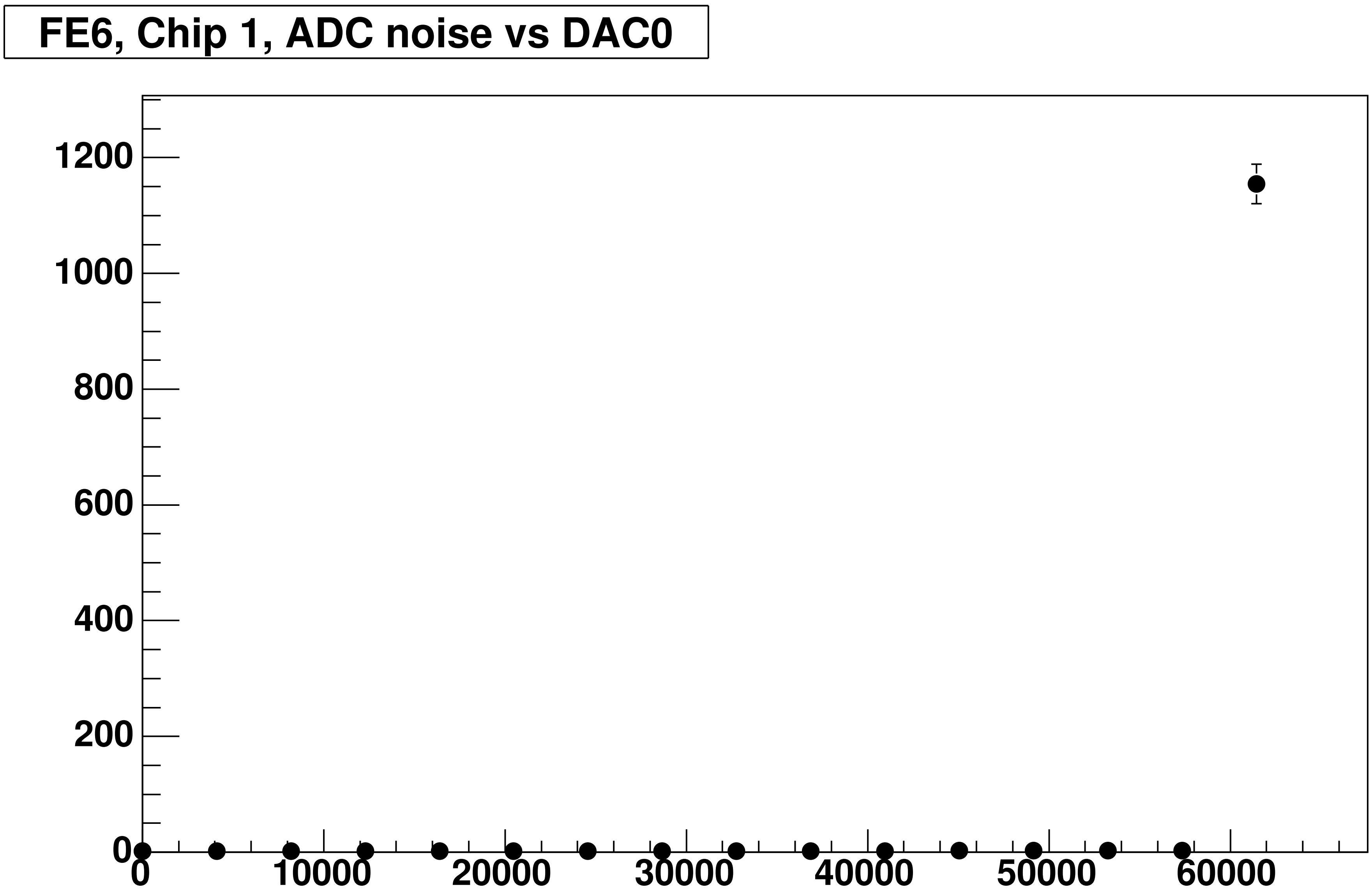
FE6, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

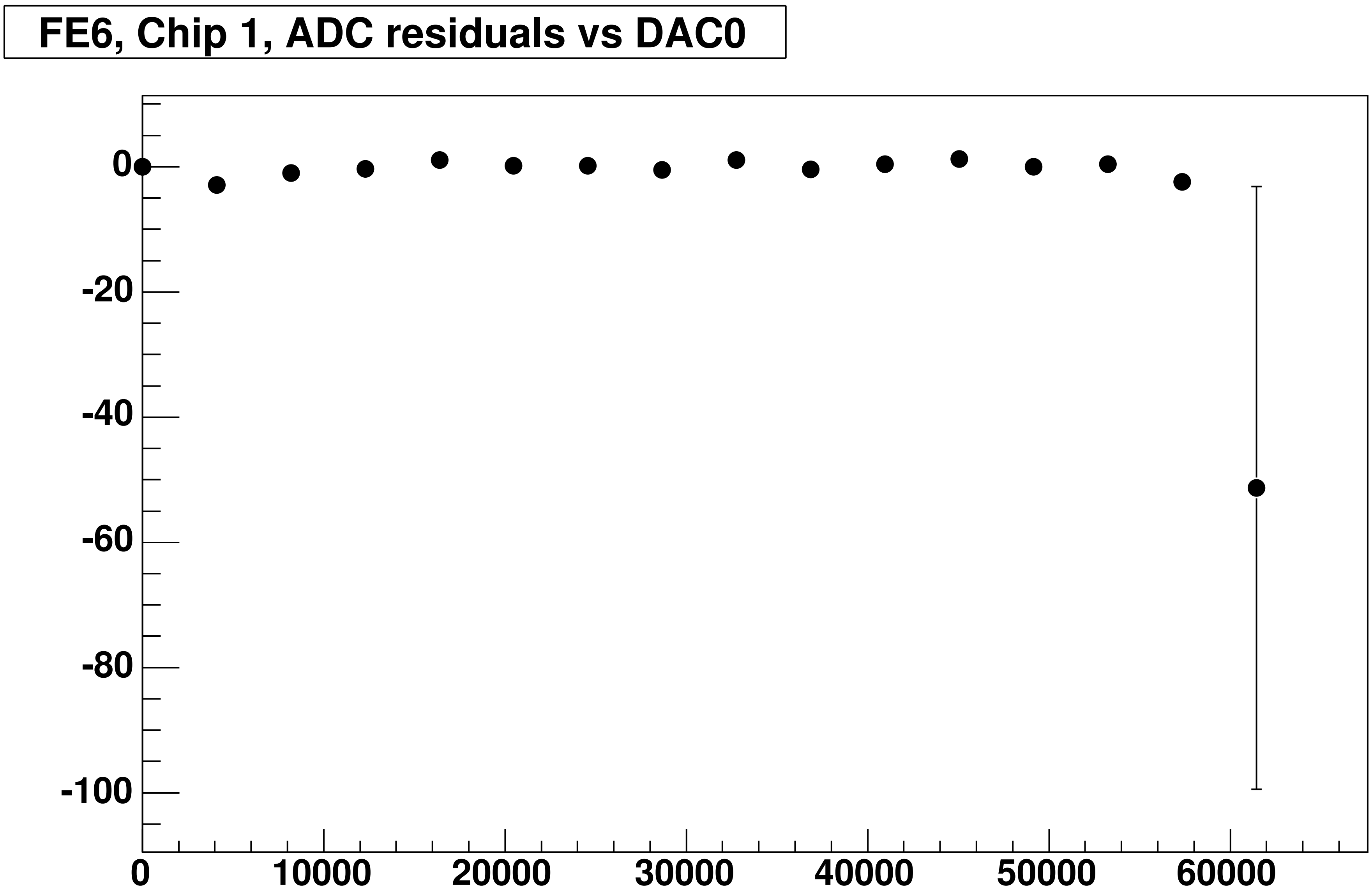

FE6, Chip 0, ADC mean vs DAC1
χ^2 / ndf 159.3 / 11
p0 28.88 ± 0.04047
p1 -3.121e-06 ± 1.12e-06
29.2
29
28.8
28.6
28.4
28.2
0
10000
20000
30000
40000
50000
60000


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

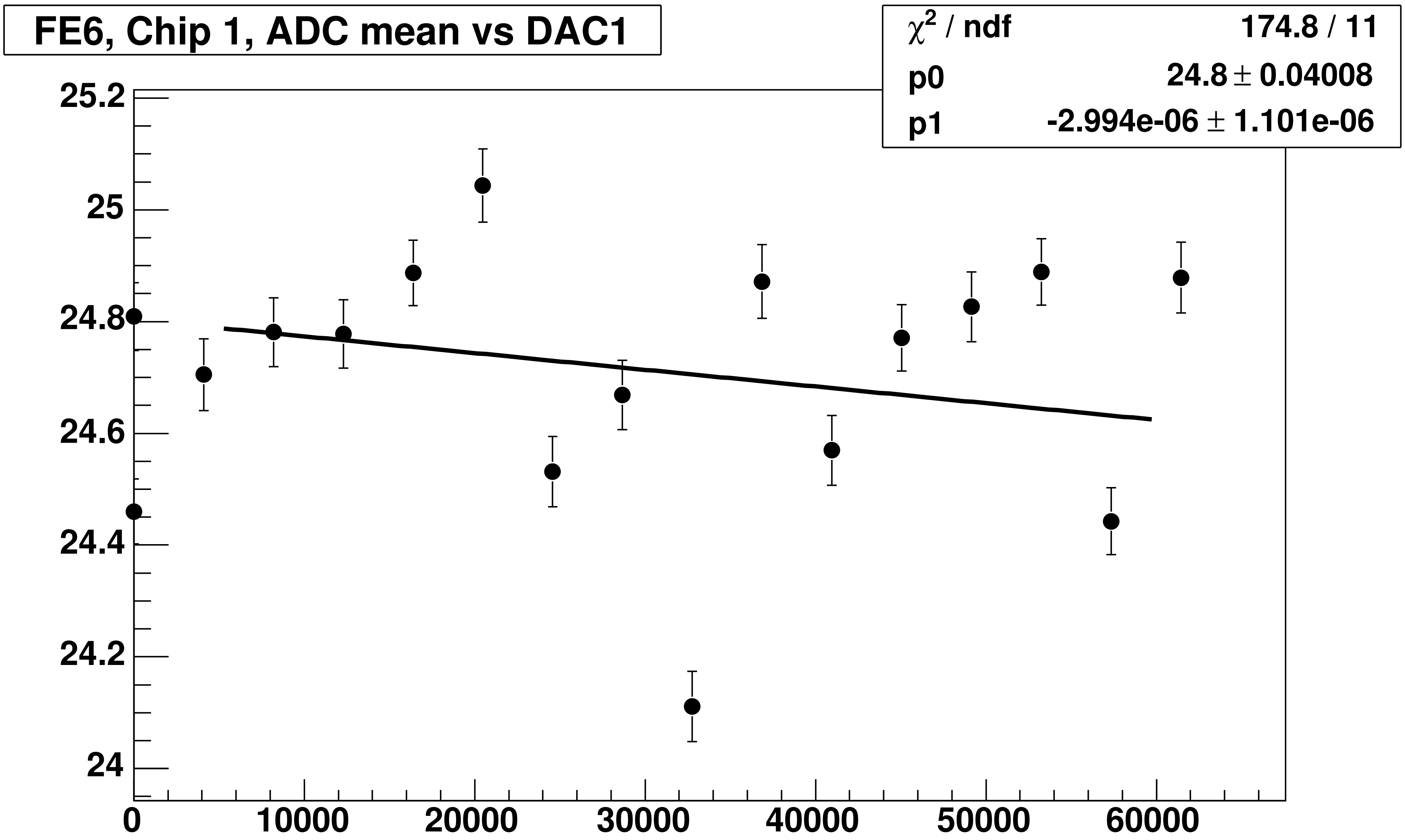

FE6, Chip 0, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

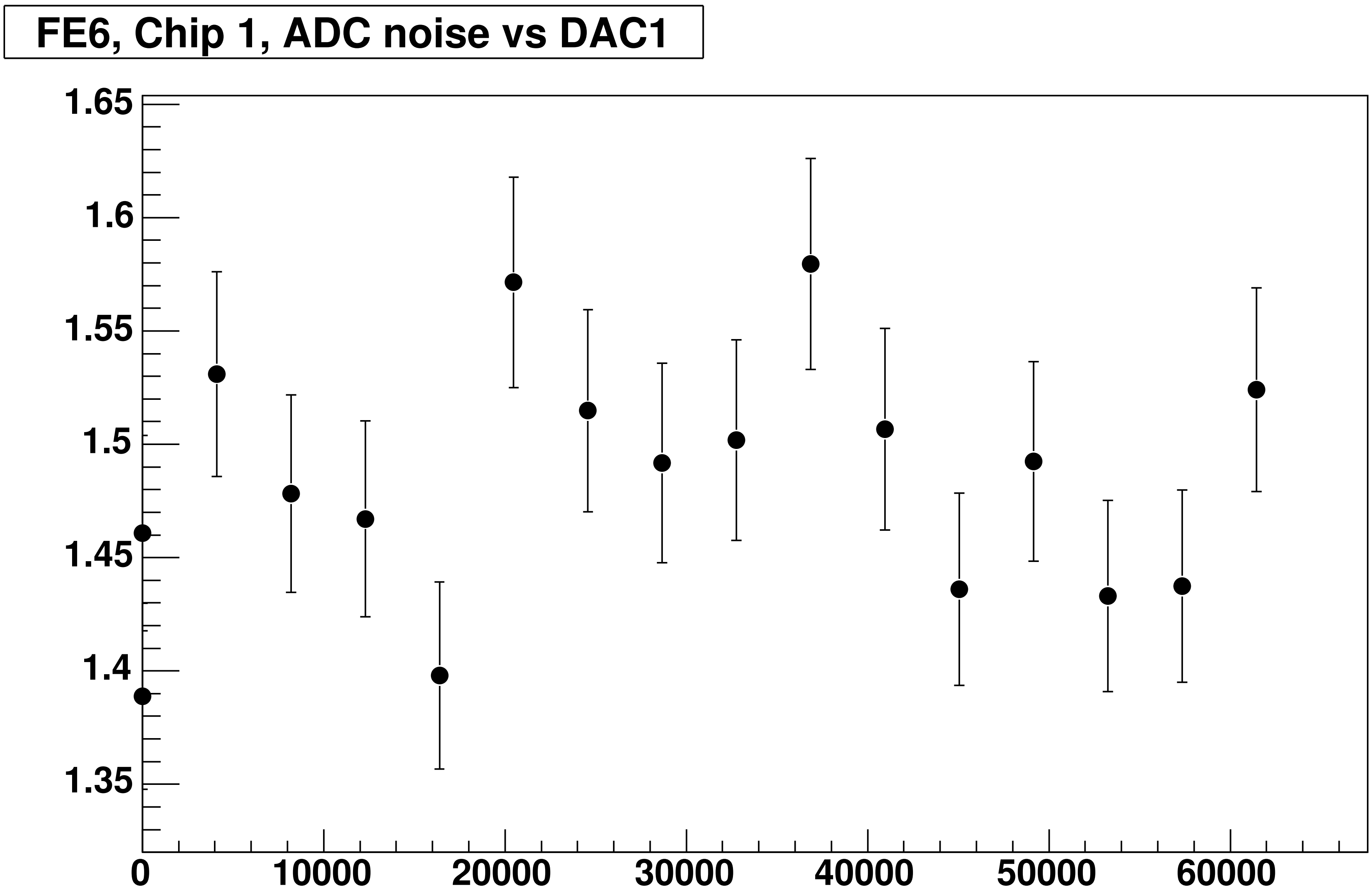

FE6, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1828 / 11
p0 28.63 ± 0.0416
p1 0.4505 ± 1.369e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

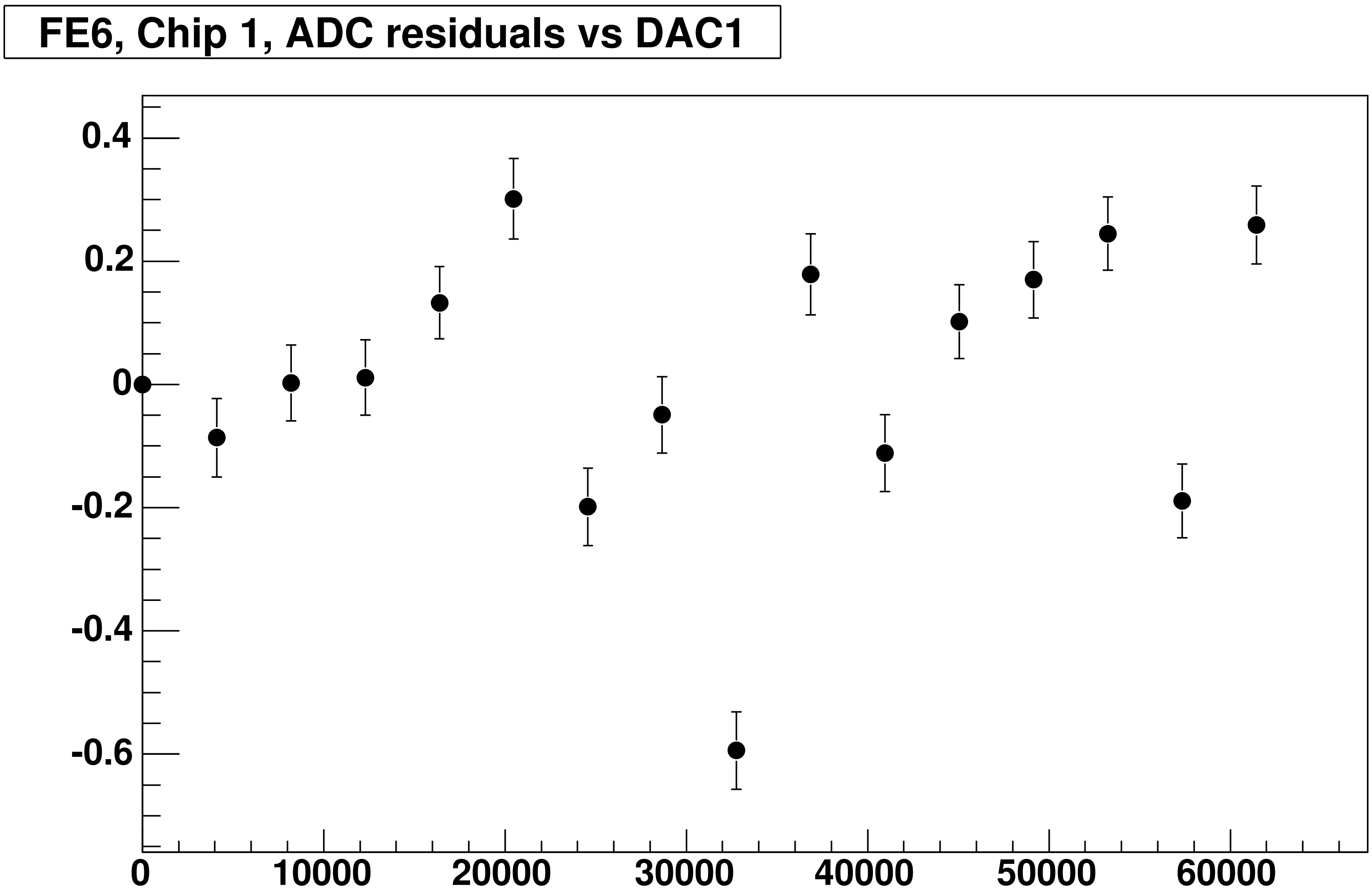


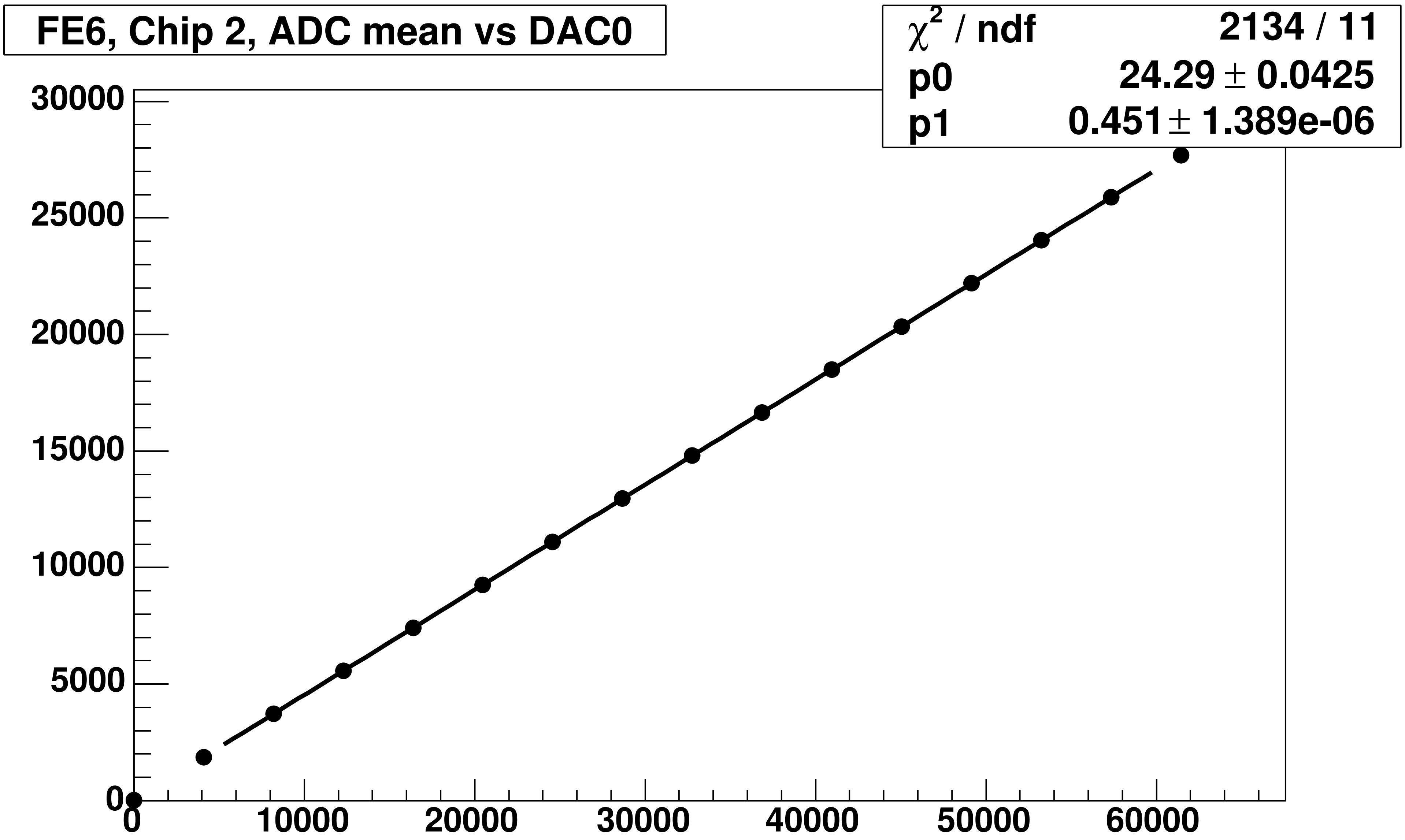
FE6, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE6, Chip 1, ADC mean vs DAC1
χ^2 / ndf 174.8 / 11
p0 24.8 ± 0.04008
p1 -2.994e-06 ± 1.101e-06
25.2
25
24.8
24.6
24.4
24.2
24
0
10000
20000
30000
40000
50000
60000

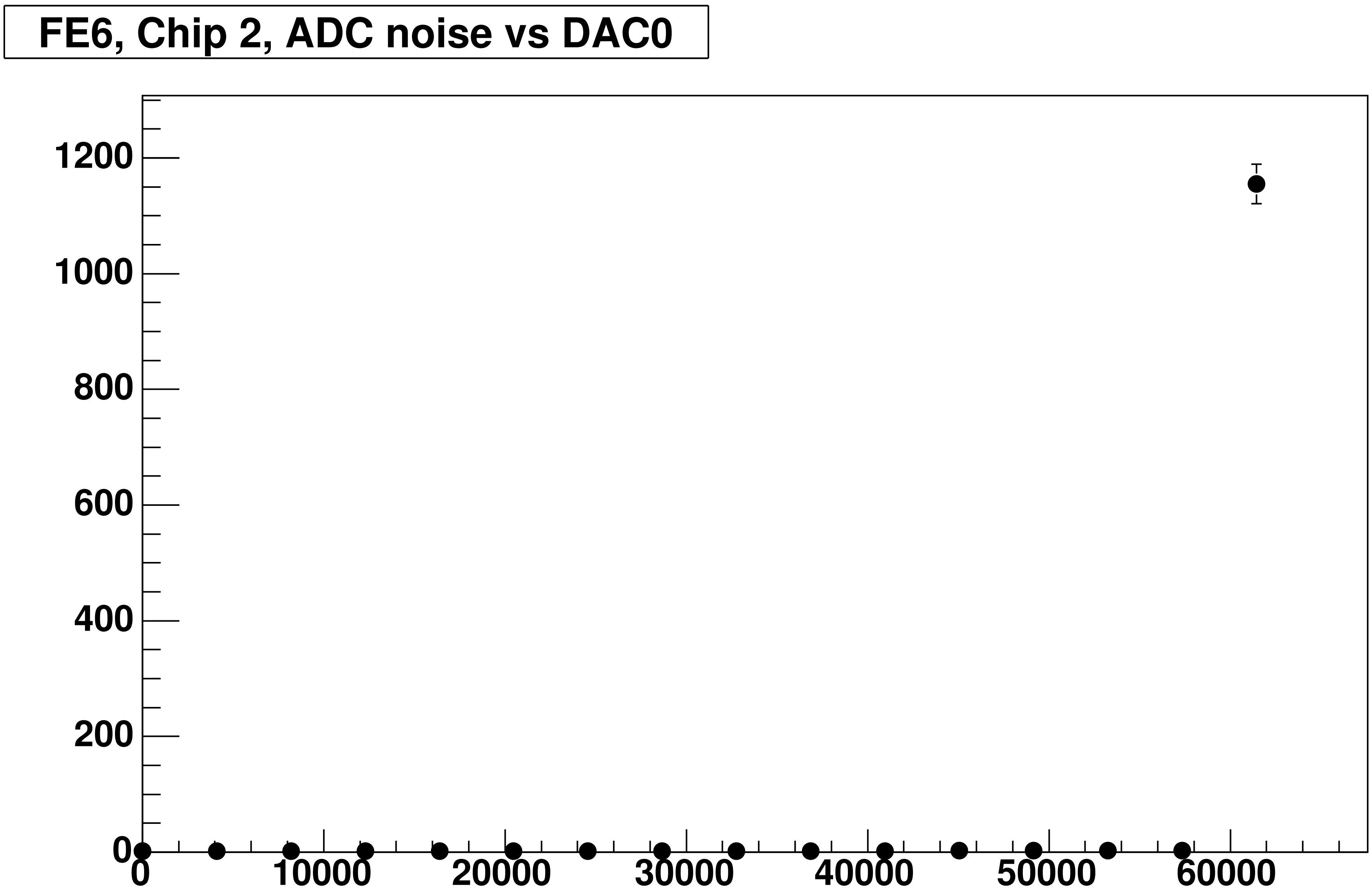


FE6, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

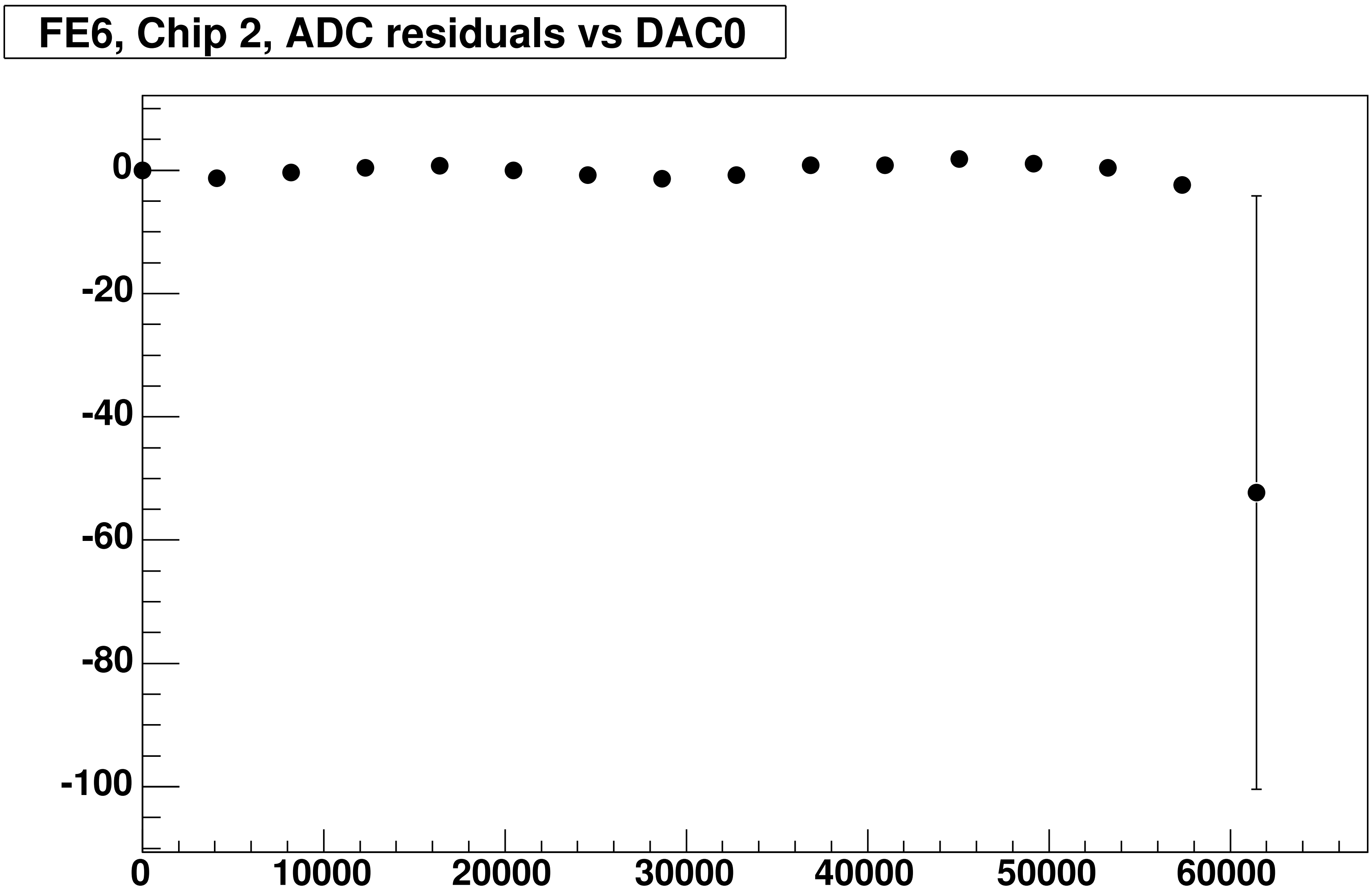

FE6, Chip 1, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

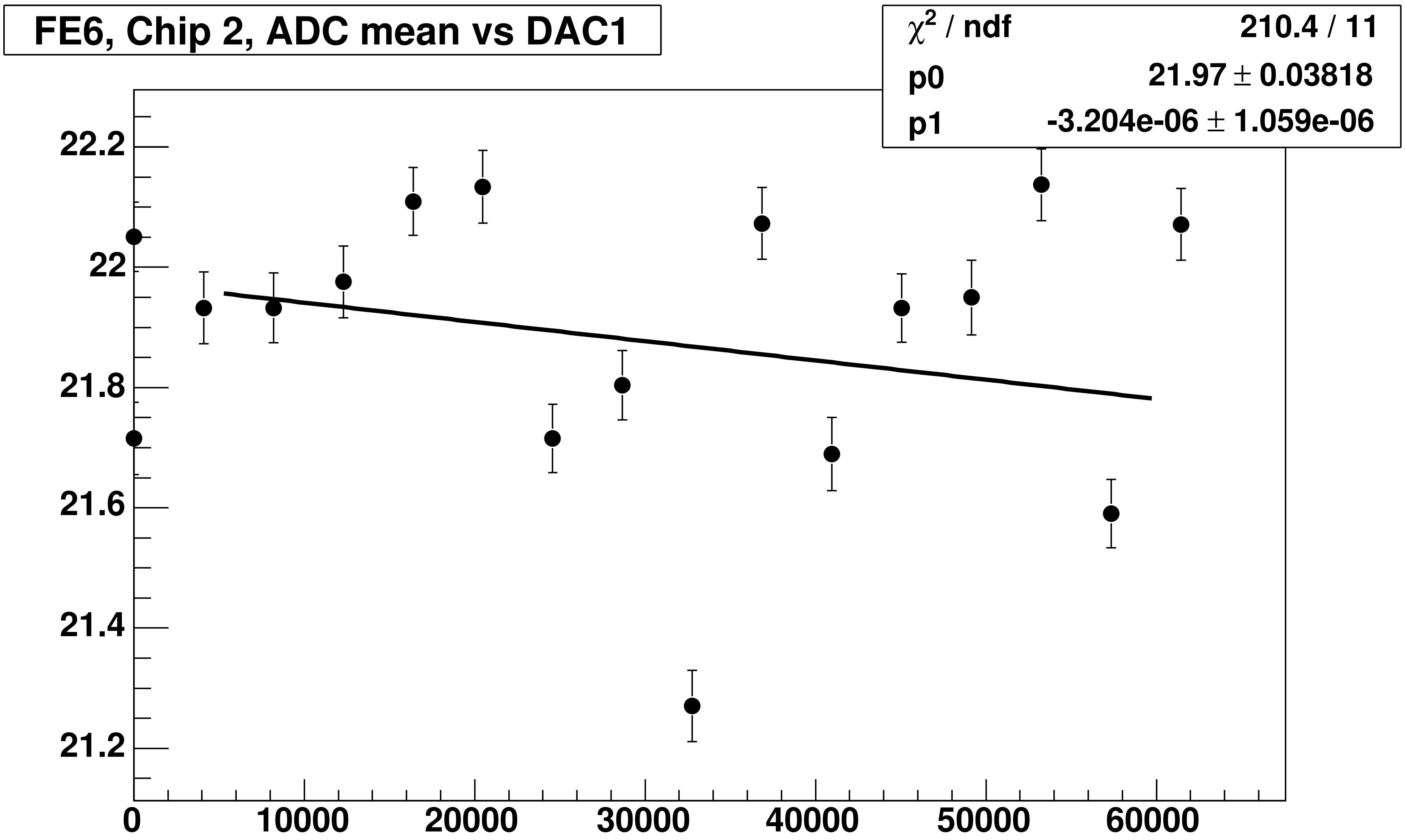


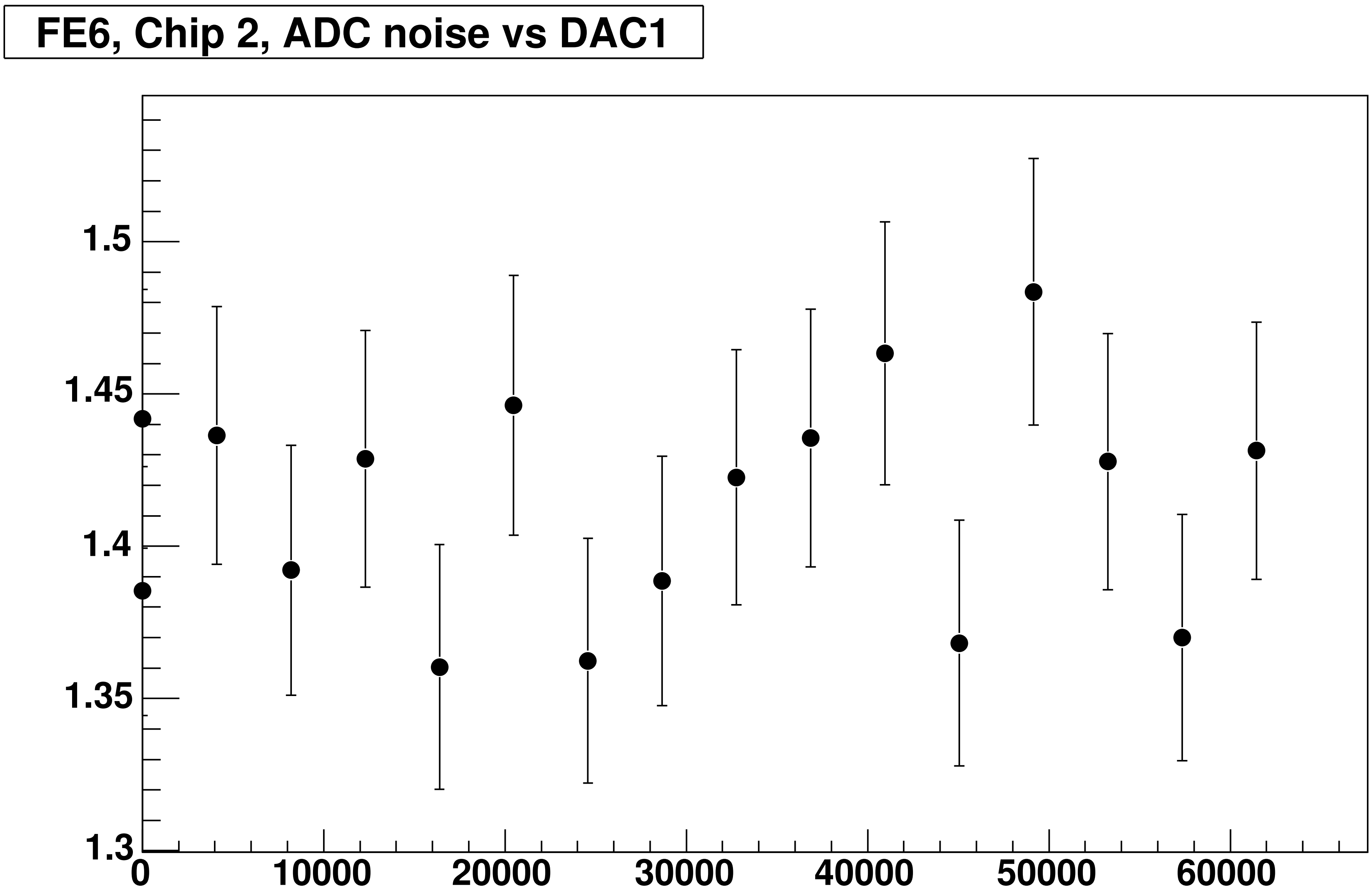
FE6, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2134 / 11
p0 24.29 ± 0.0425
p1 0.451 ± 1.389e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



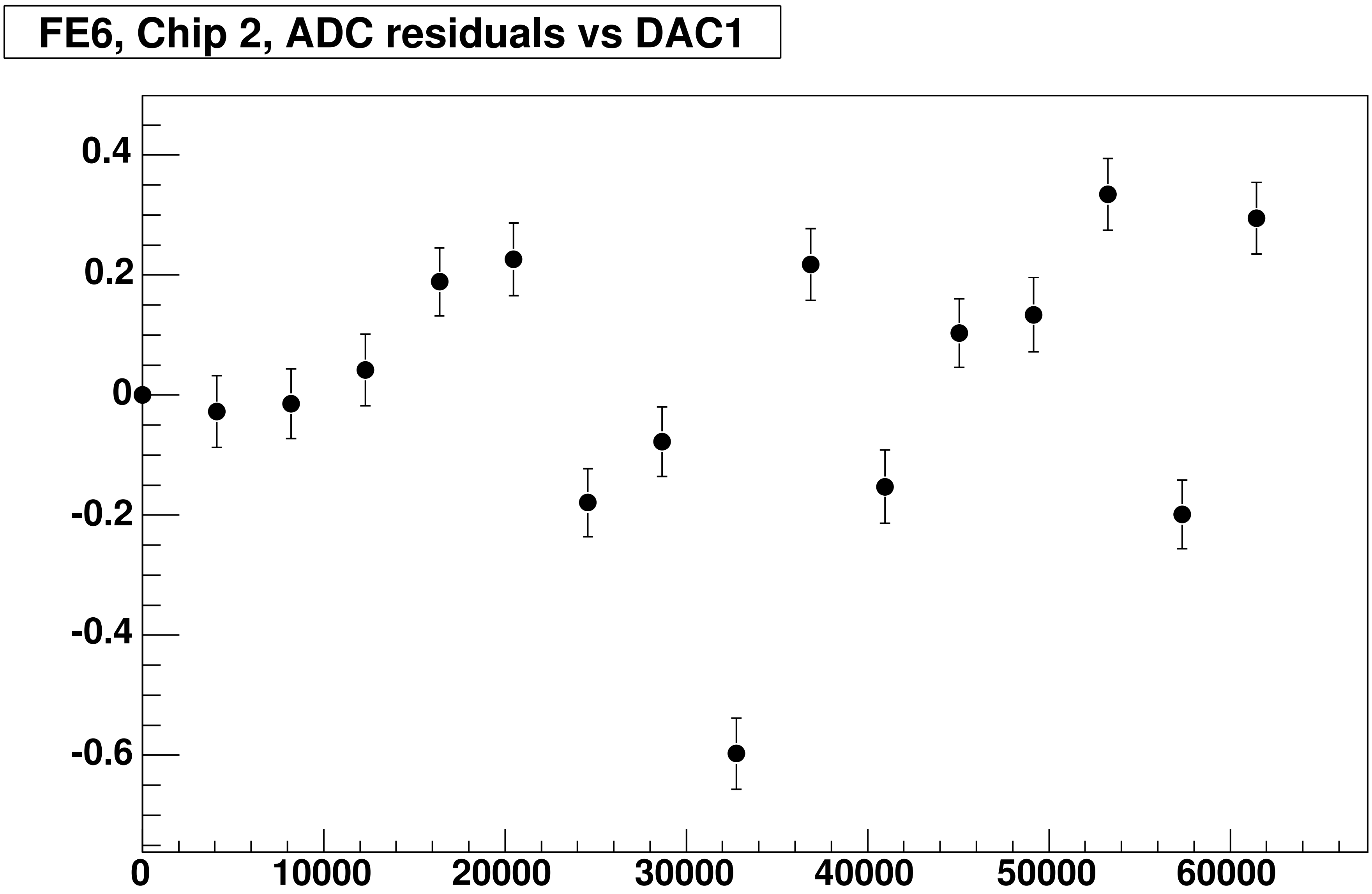
FE6, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

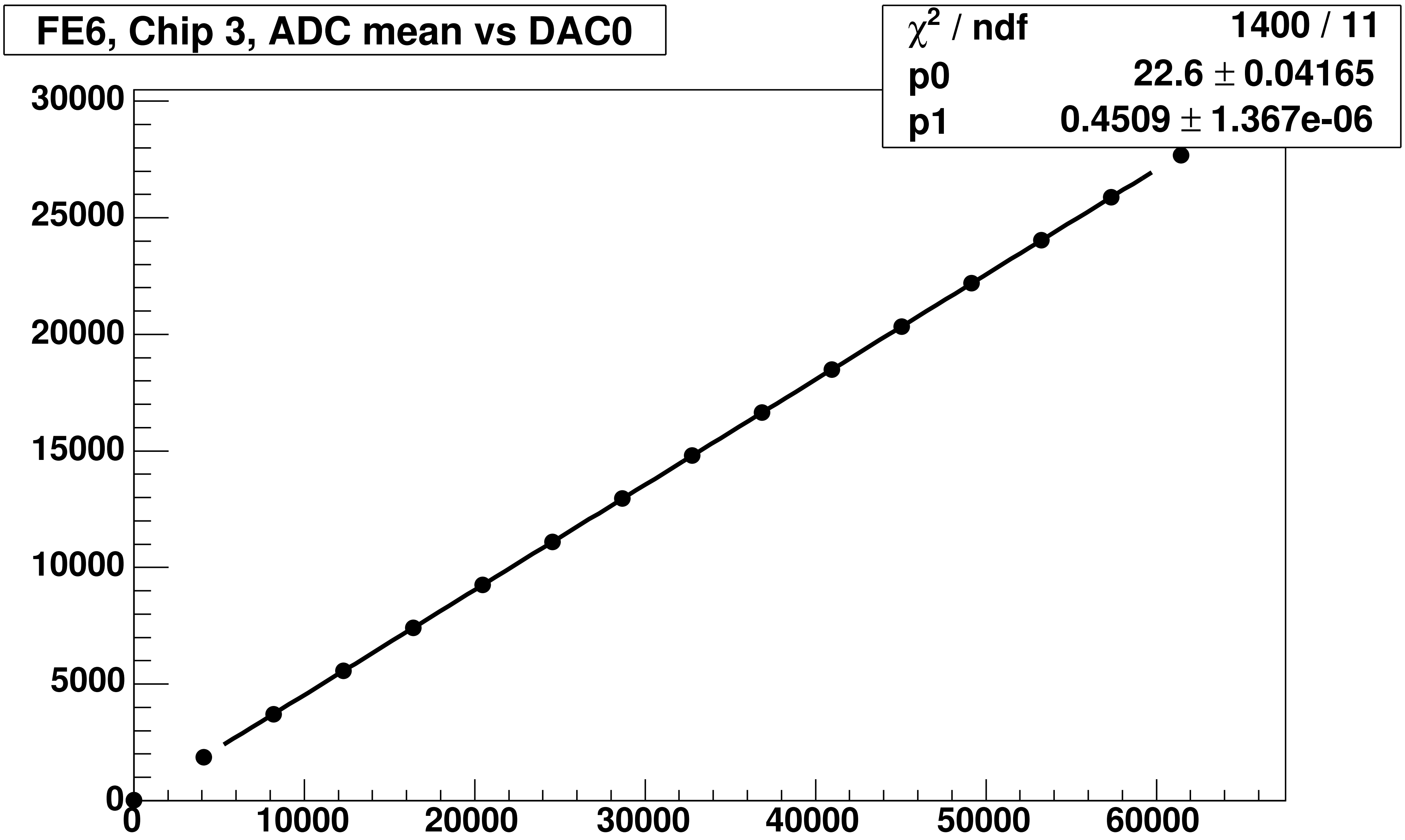

FE6, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

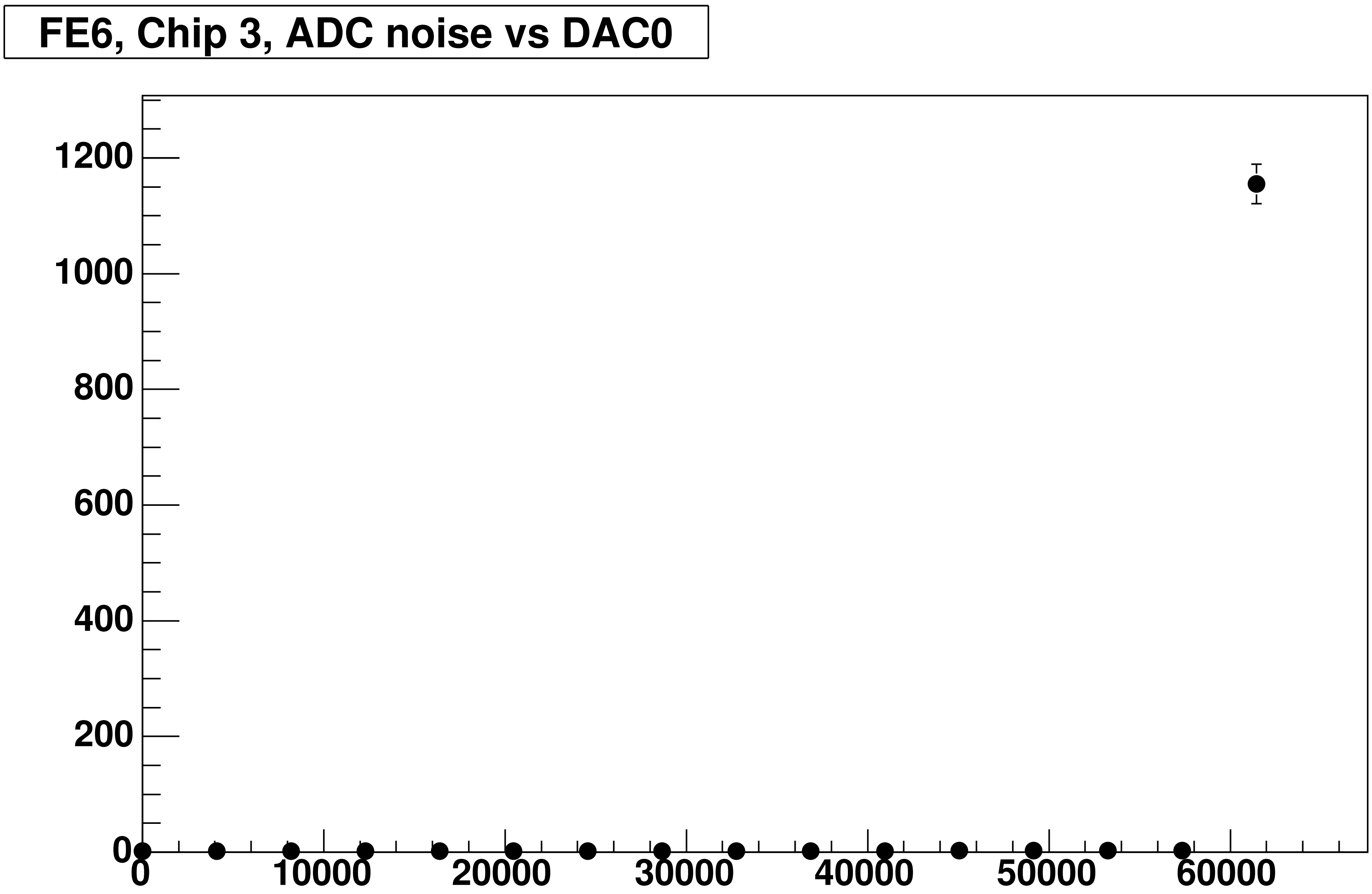

FE6, Chip 2, ADC mean vs DAC1
χ^2 / ndf 210.4 / 11
p0 21.97 ± 0.03818
p1 -3.204e-06 ± 1.059e-06
22.2
22
21.8
21.6
21.4
21.2
0
10000
20000
30000
40000
50000
60000



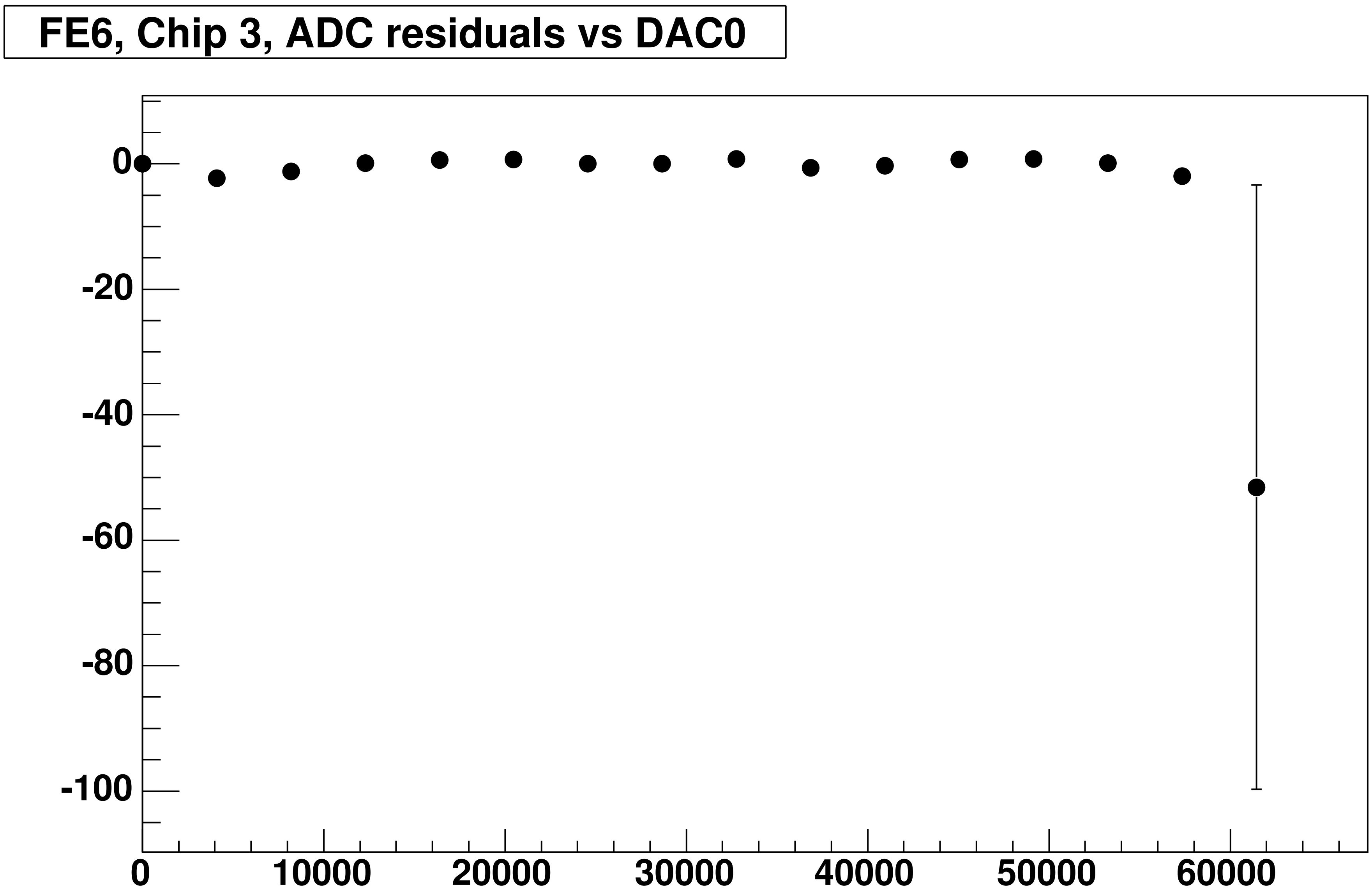
FE6, Chip 2, ADC noise vs DAC1
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

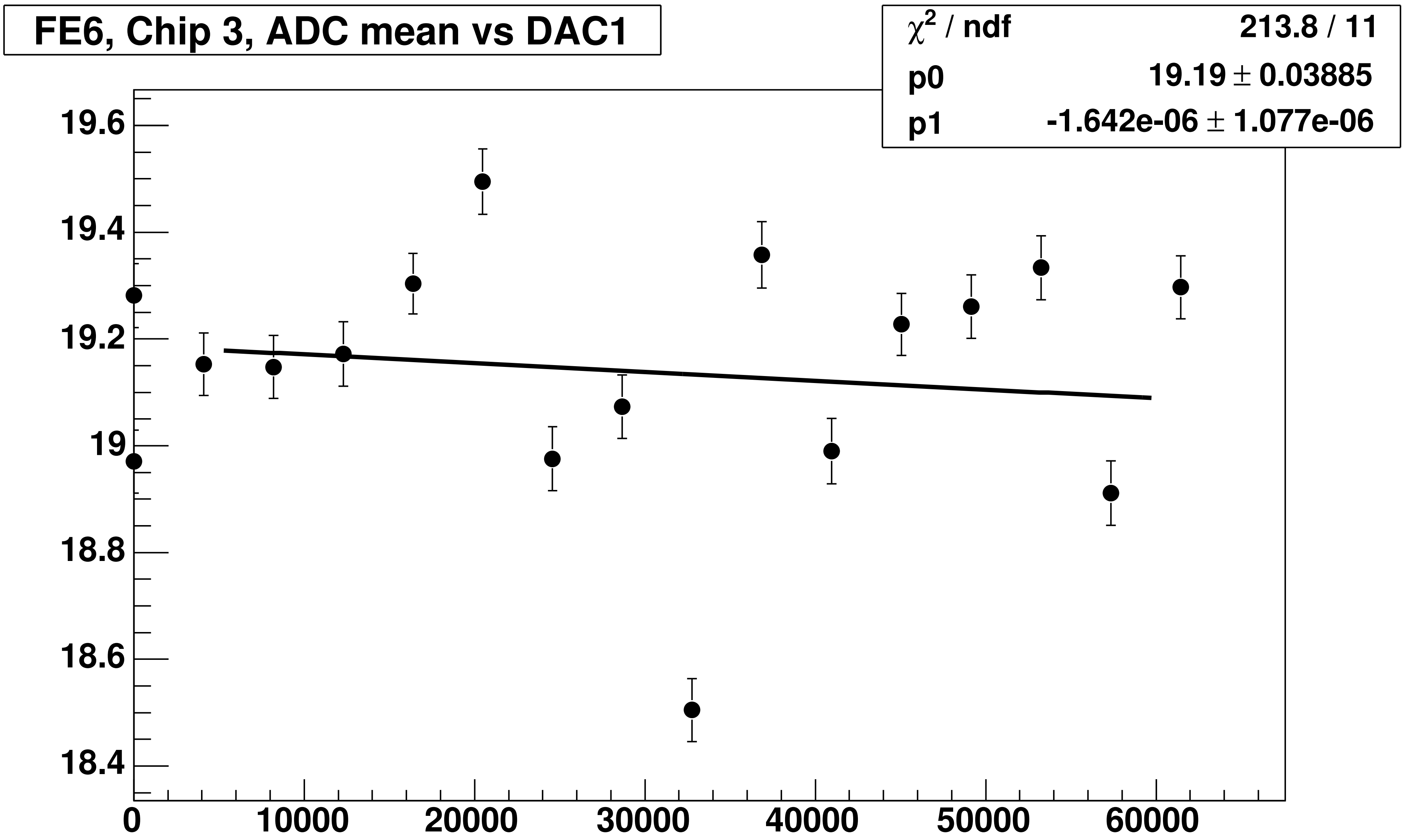

FE6, Chip 2, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

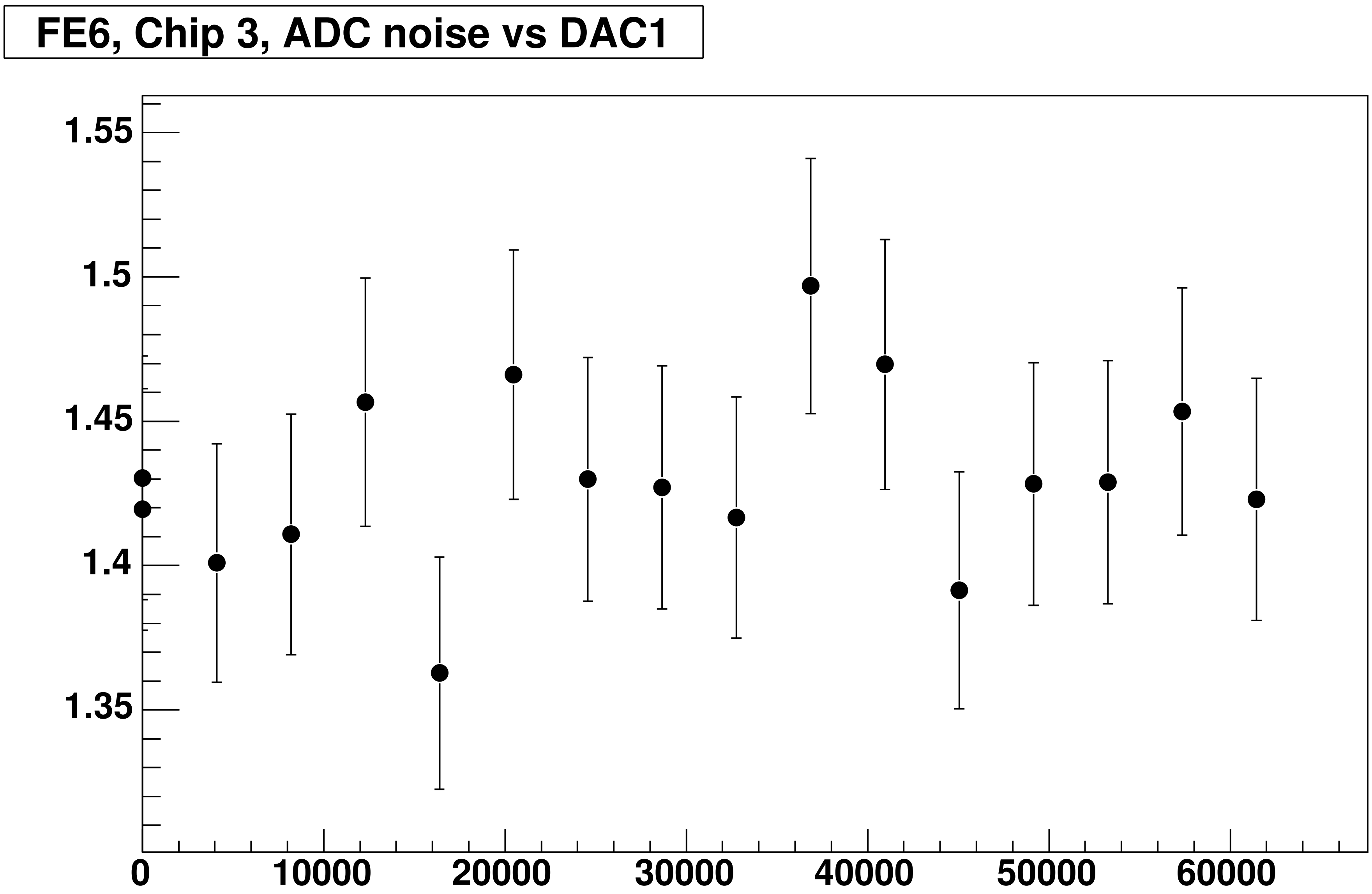

FE6, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1400 / 11
p0 22.6 ± 0.04165
p1 0.4509 ± 1.367e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

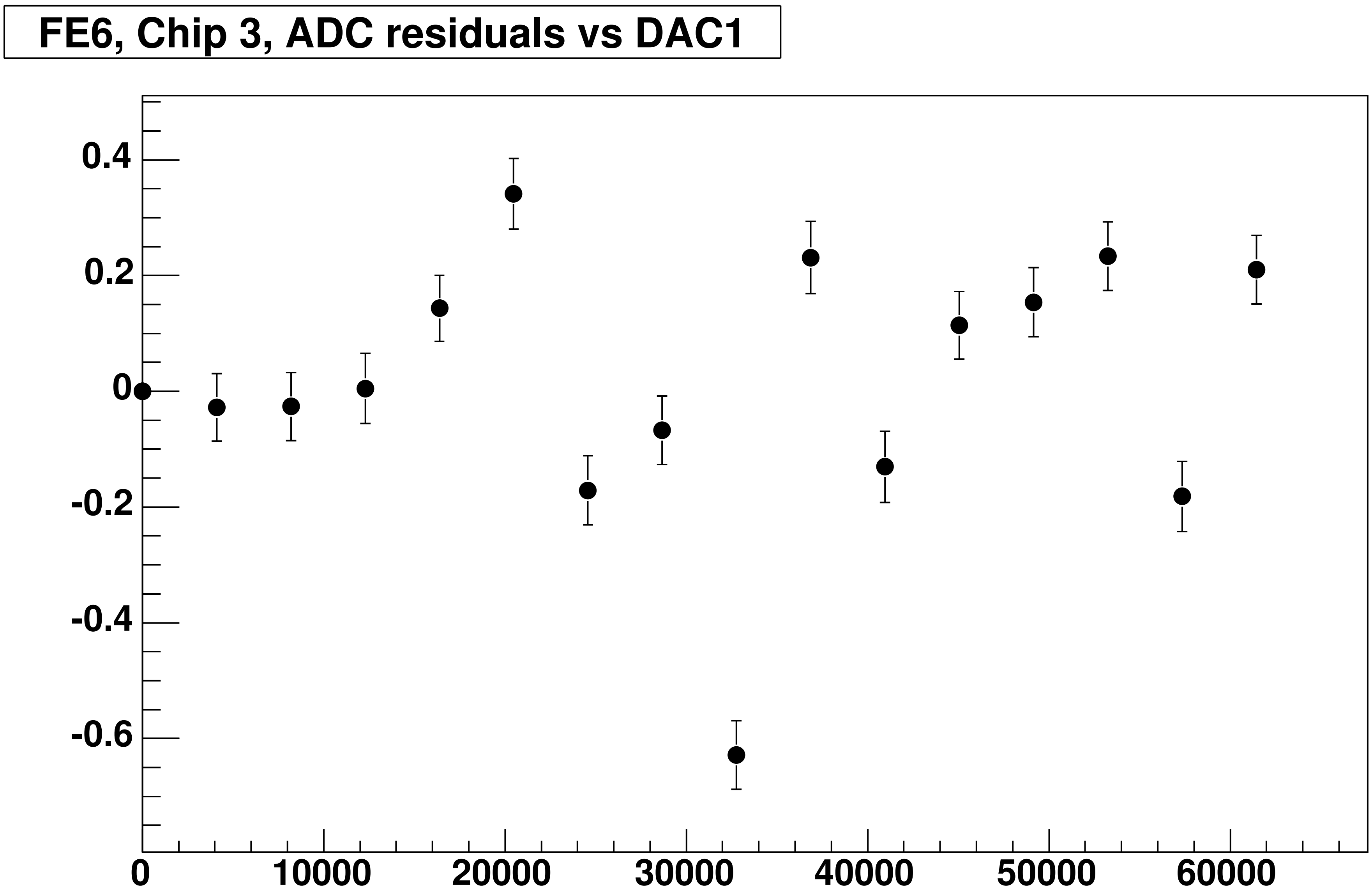


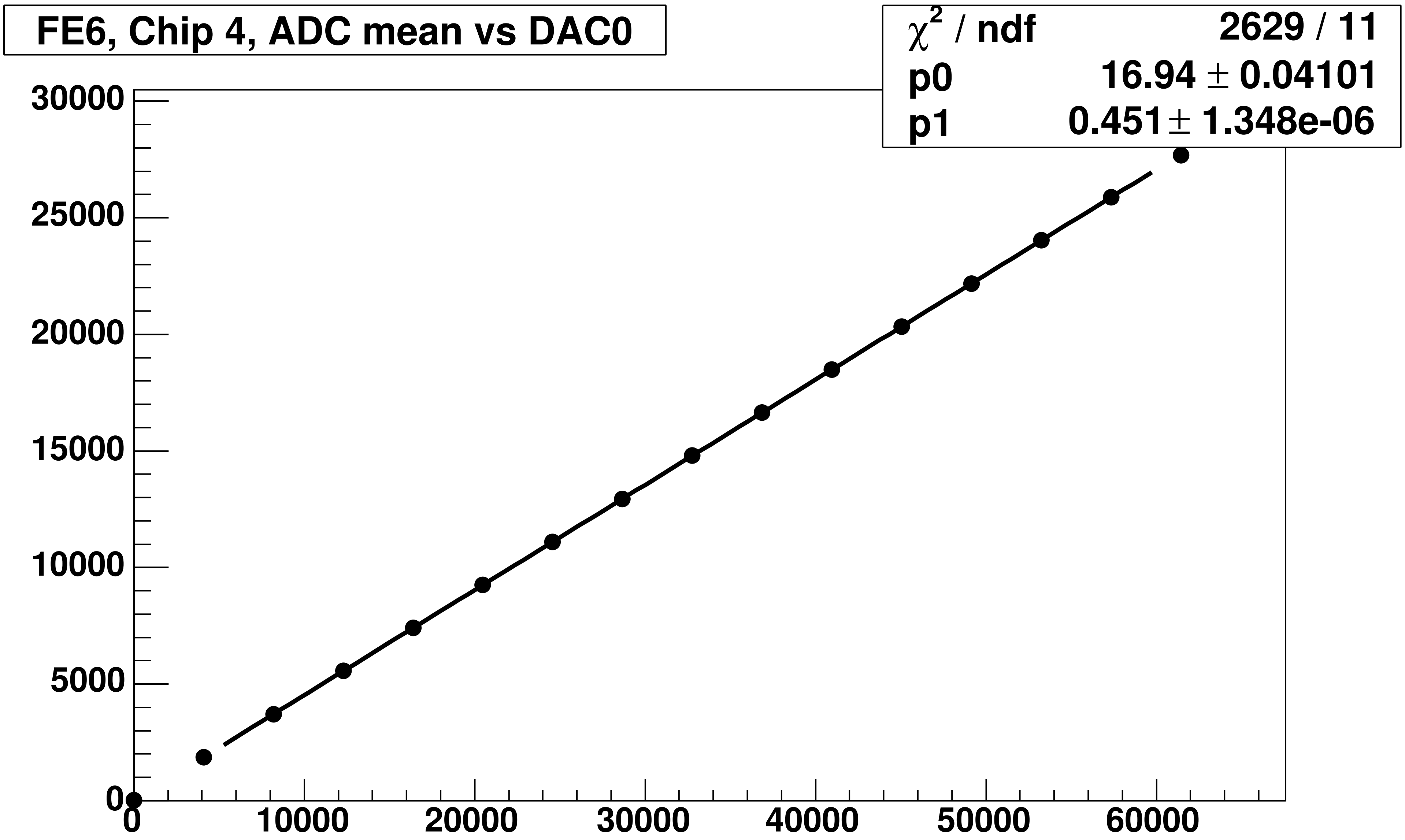
FE6, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000


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

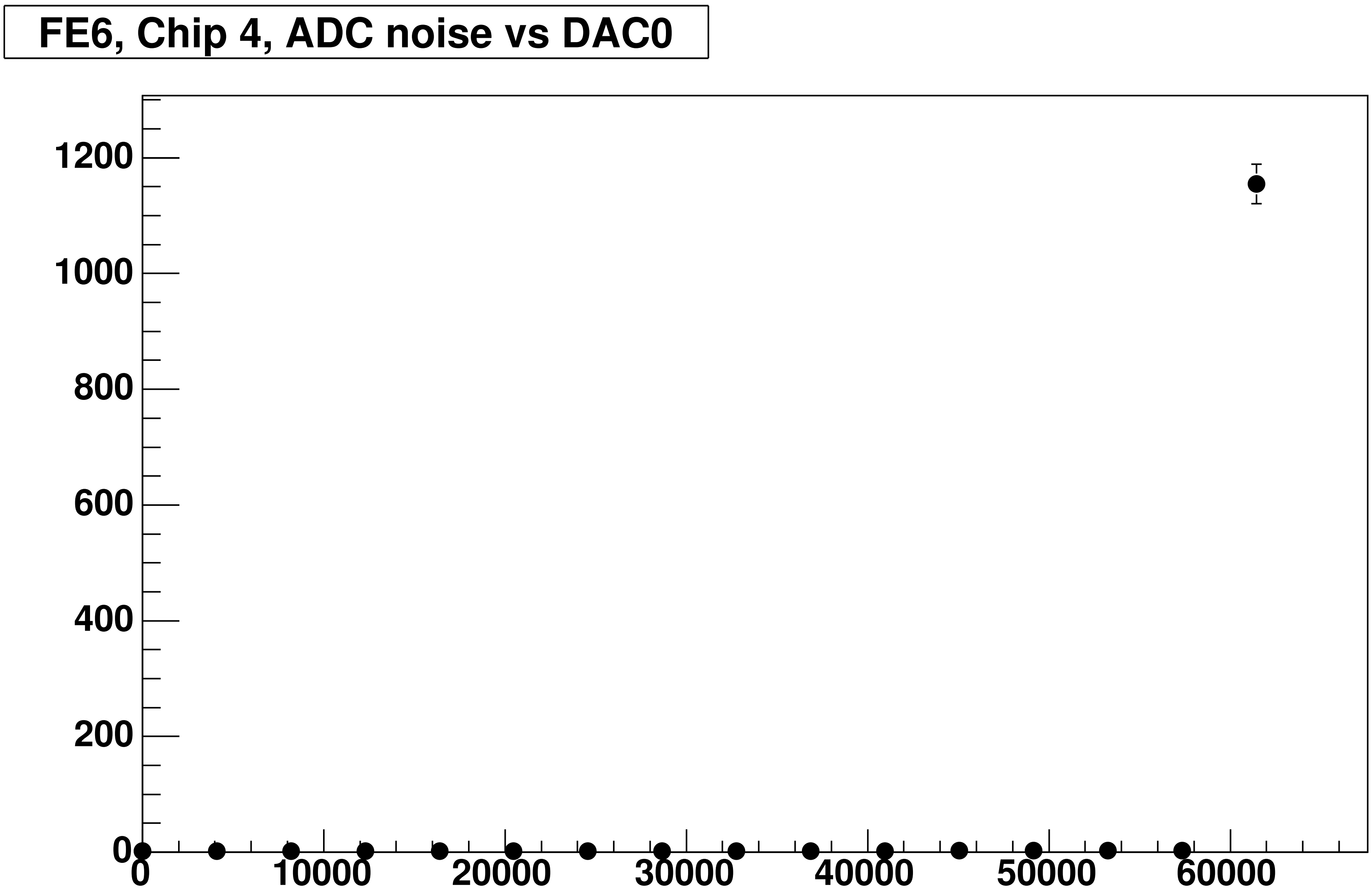

FE6, Chip 3, ADC mean vs DAC1
χ^2 / ndf 213.8 / 11
p0 19.19 ± 0.03885
p1 -1.642e-06 ± 1.077e-06
19.6
19.4
19.2
19
18.8
18.6
18.4
0
10000
20000
30000
40000
50000
60000

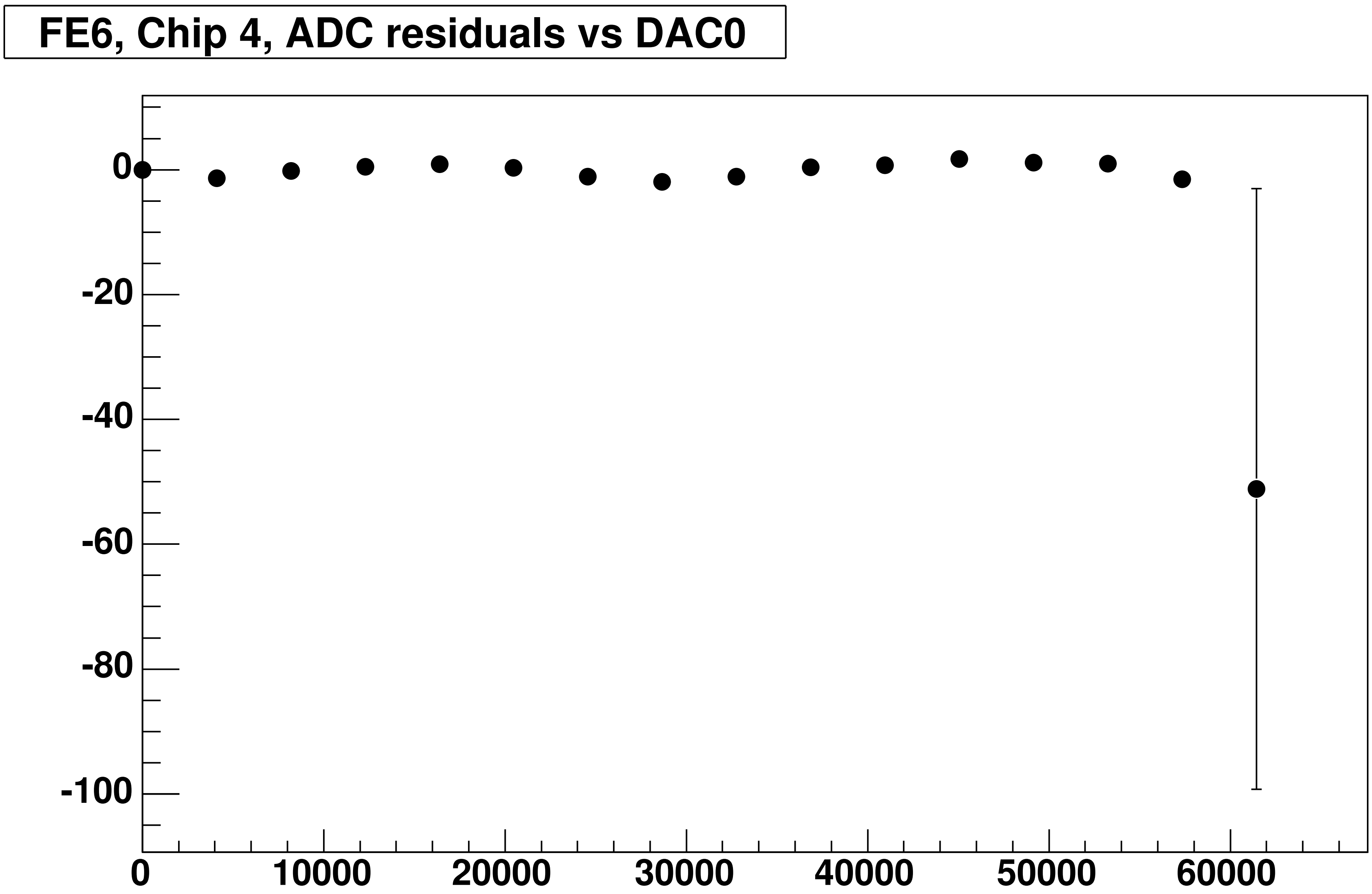

FE6, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE6, Chip 3, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

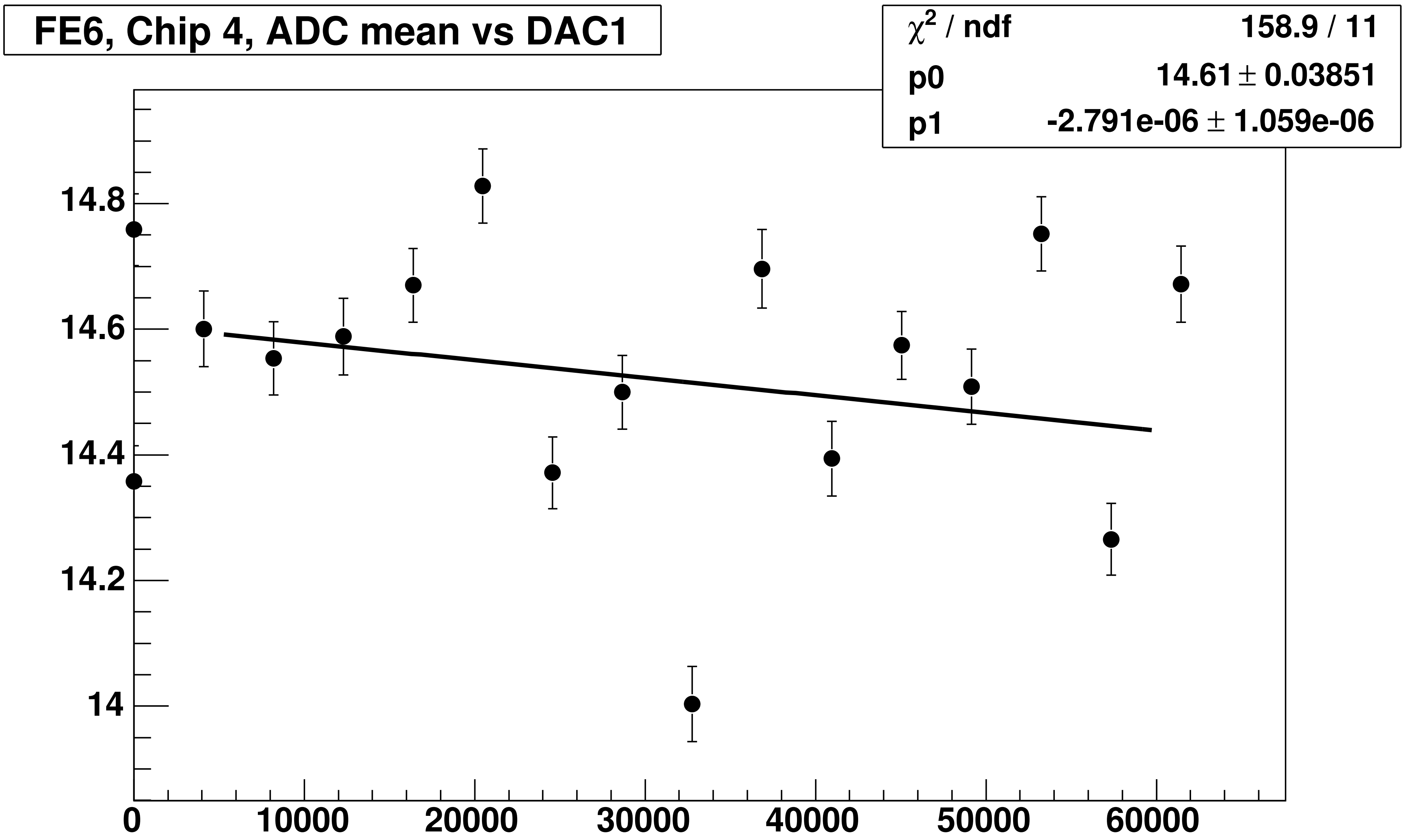


FE6, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2629 / 11
p0 16.94 ± 0.04101
p1 0.451 ± 1.348e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

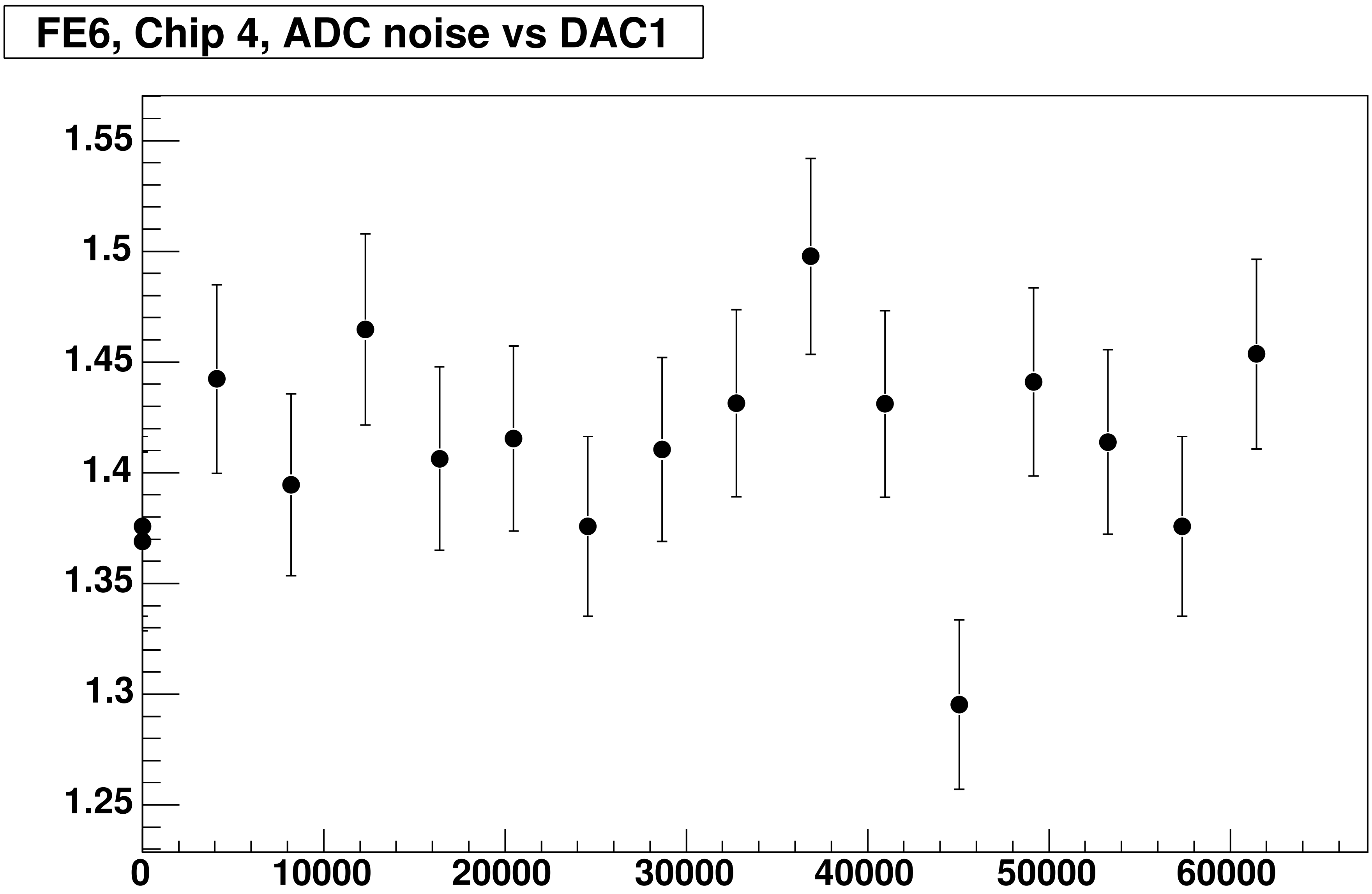

FE6, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

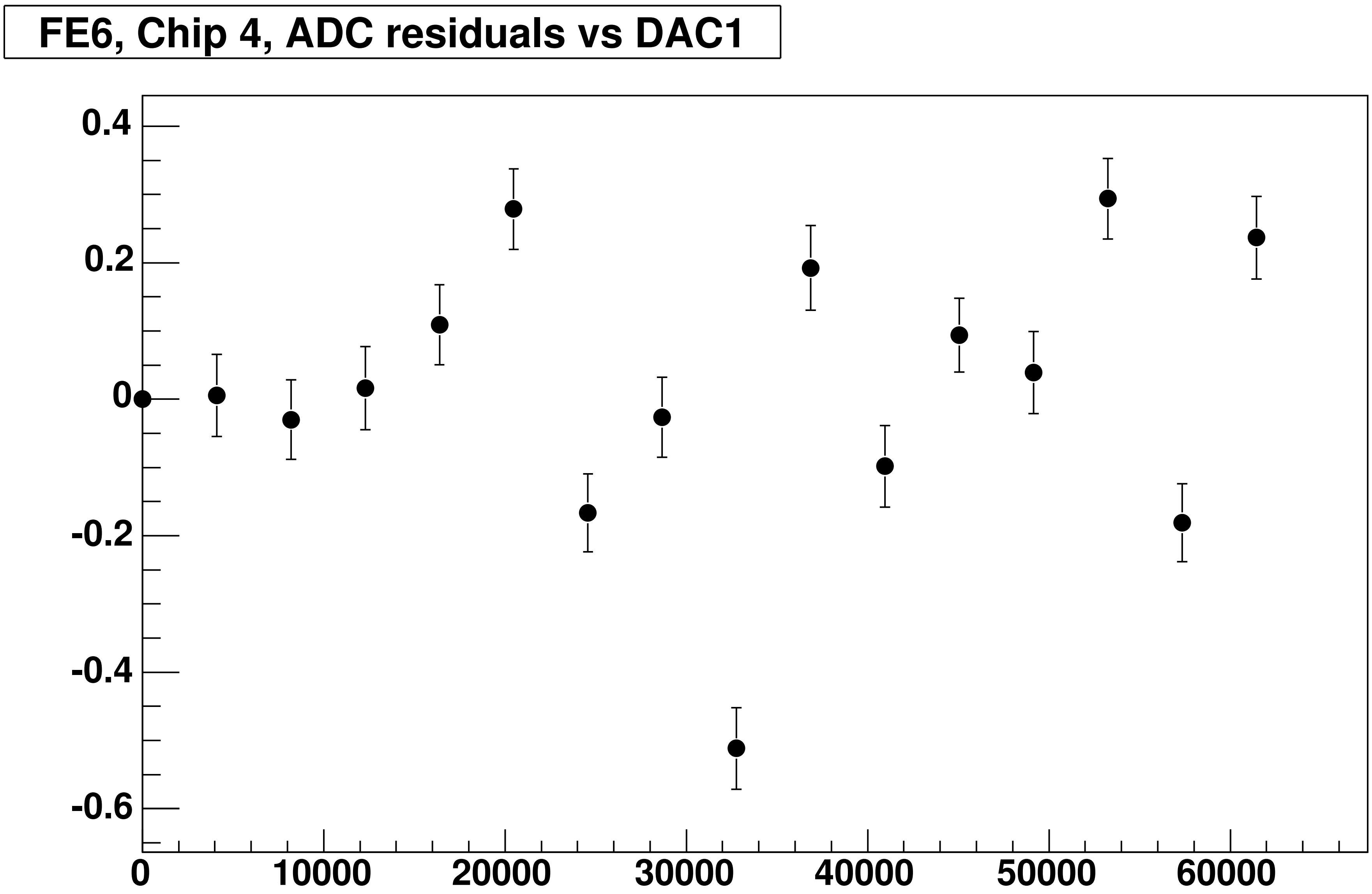


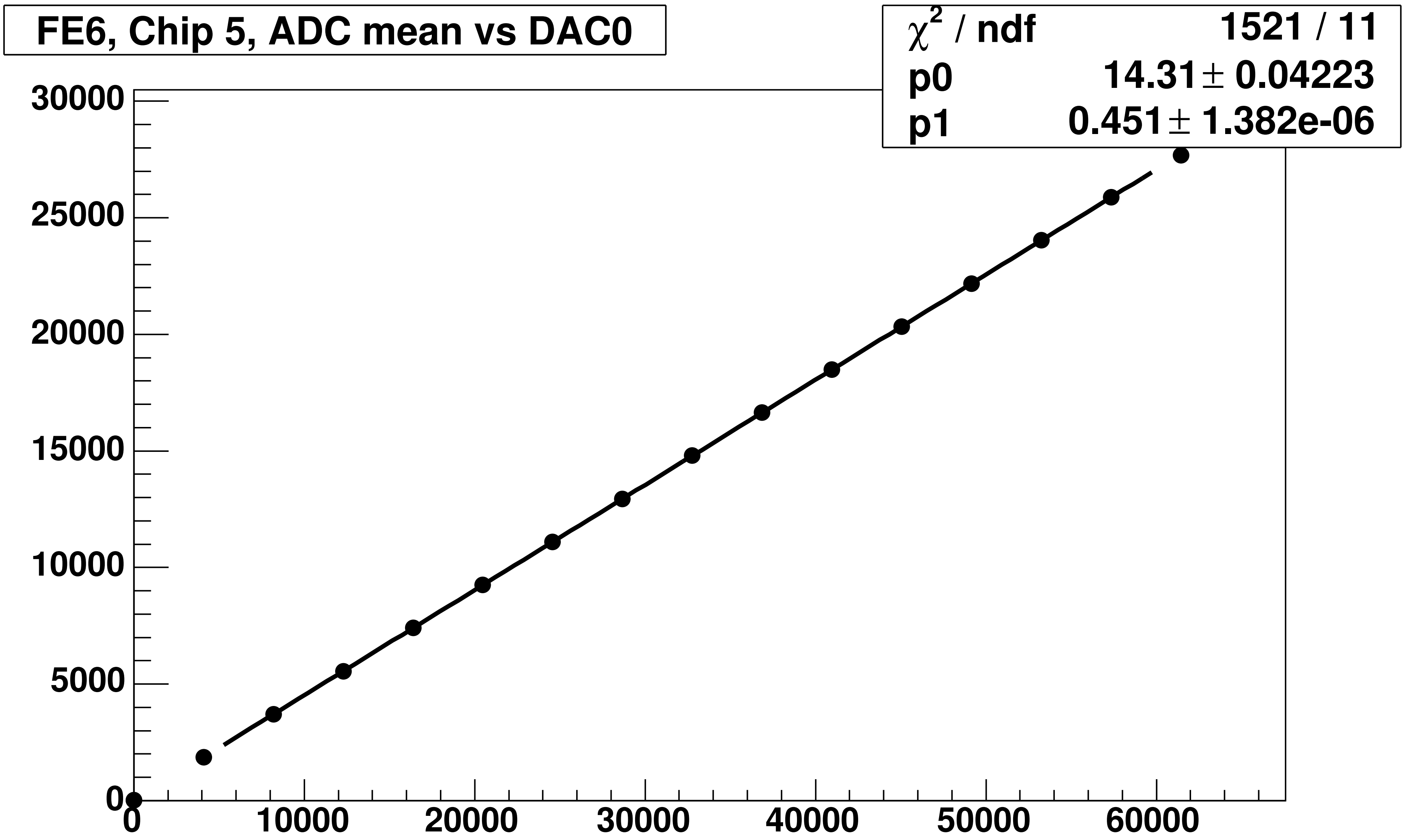
FE6, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



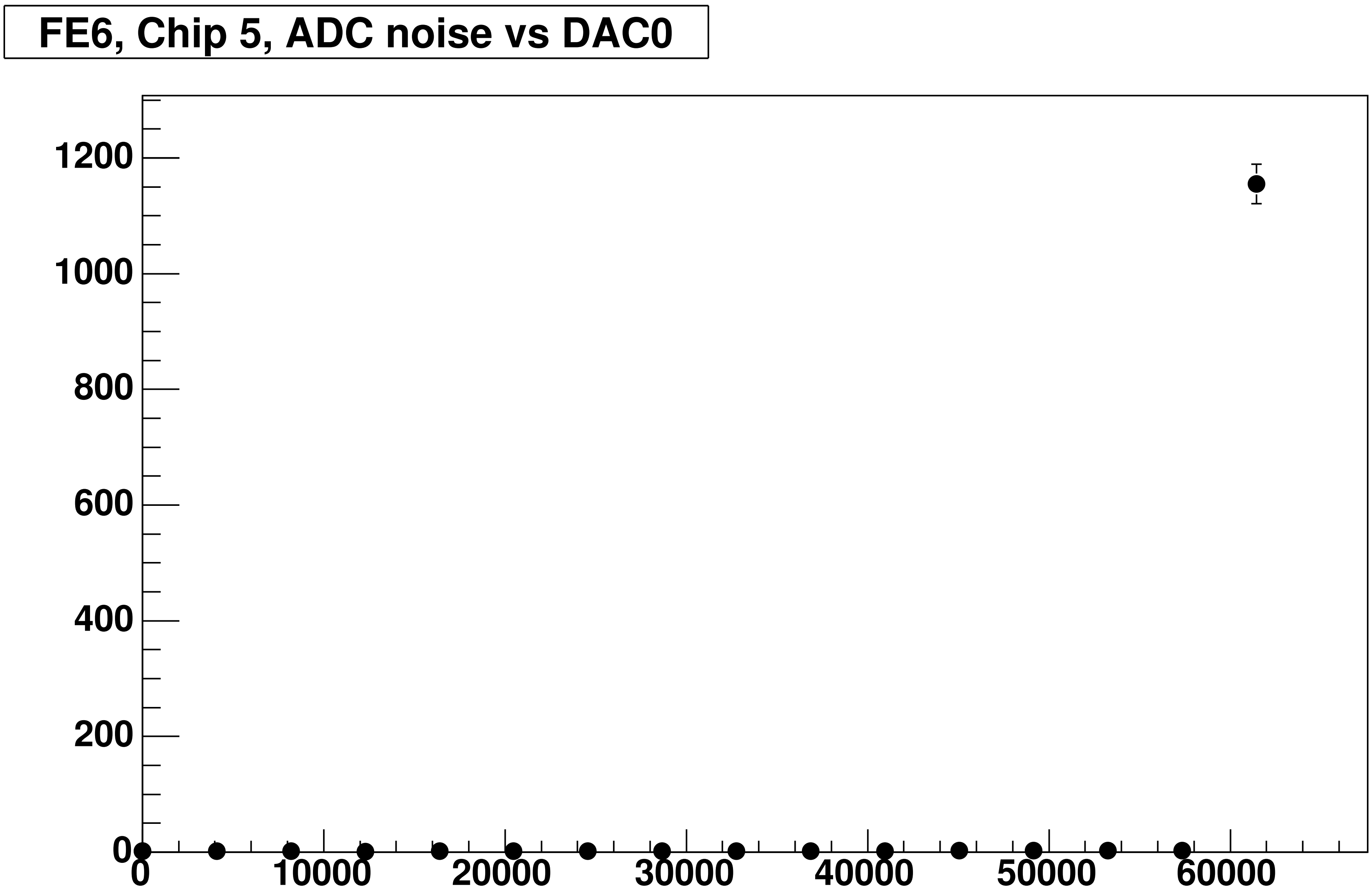
FE6, Chip 4, ADC mean vs DAC1
χ^2 / ndf 158.9 / 11
p0 14.61 ± 0.03851
p1 -2.791e-06 ± 1.059e-06
14.8
14.6
14.4
14.2
14
0
10000
20000
30000
40000
50000
60000

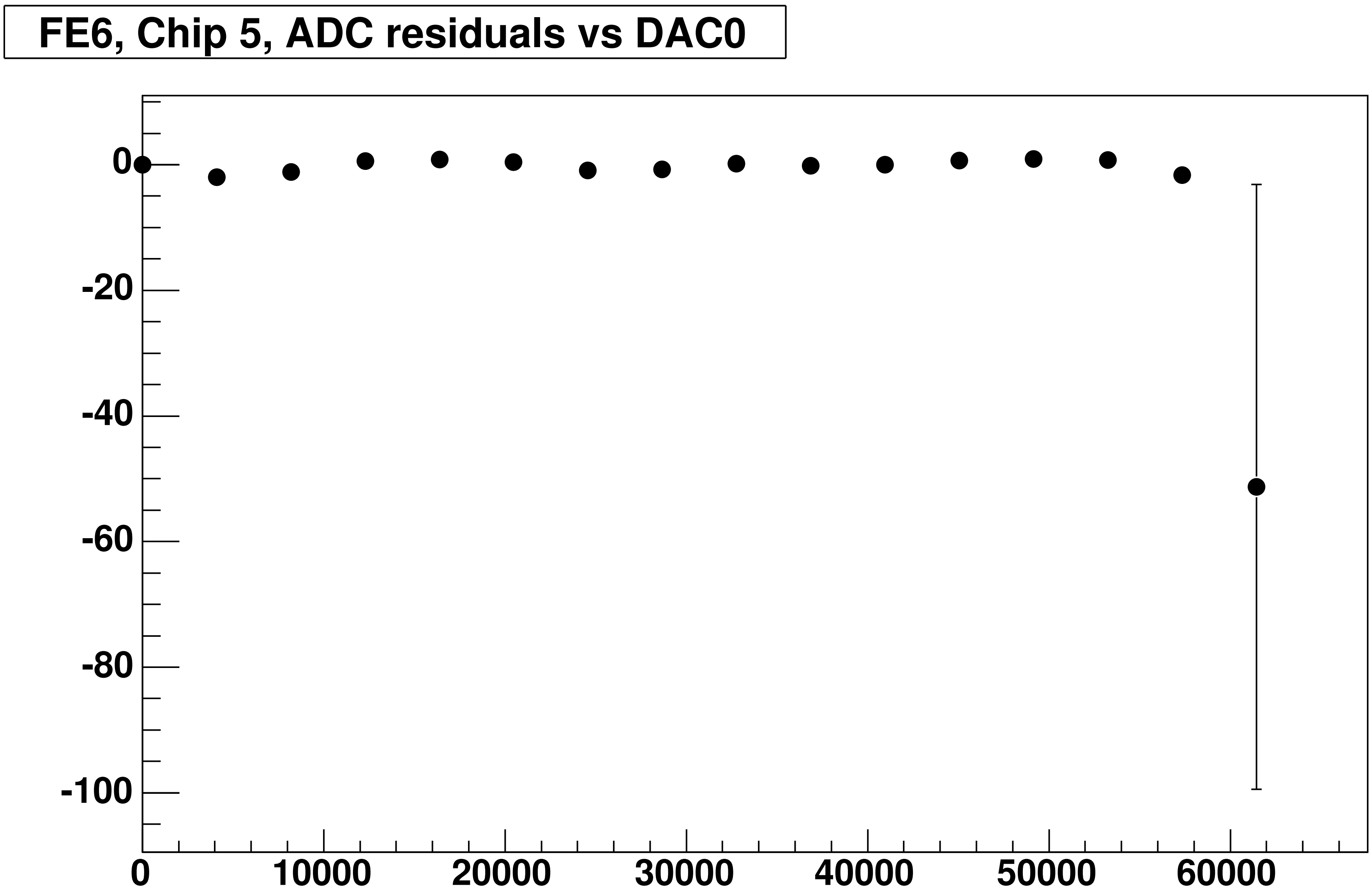

FE6, Chip 4, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000

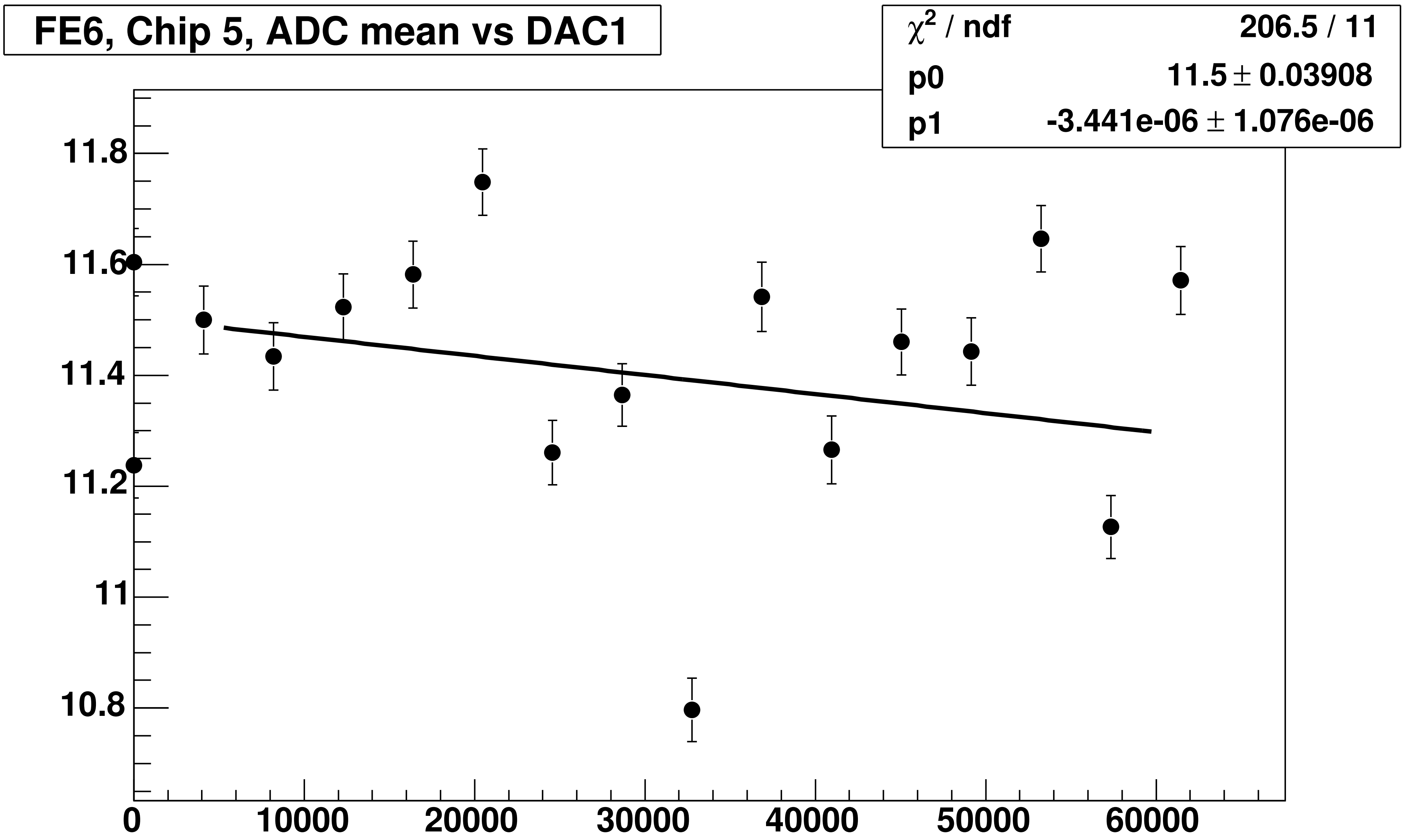

FE6, Chip 4, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

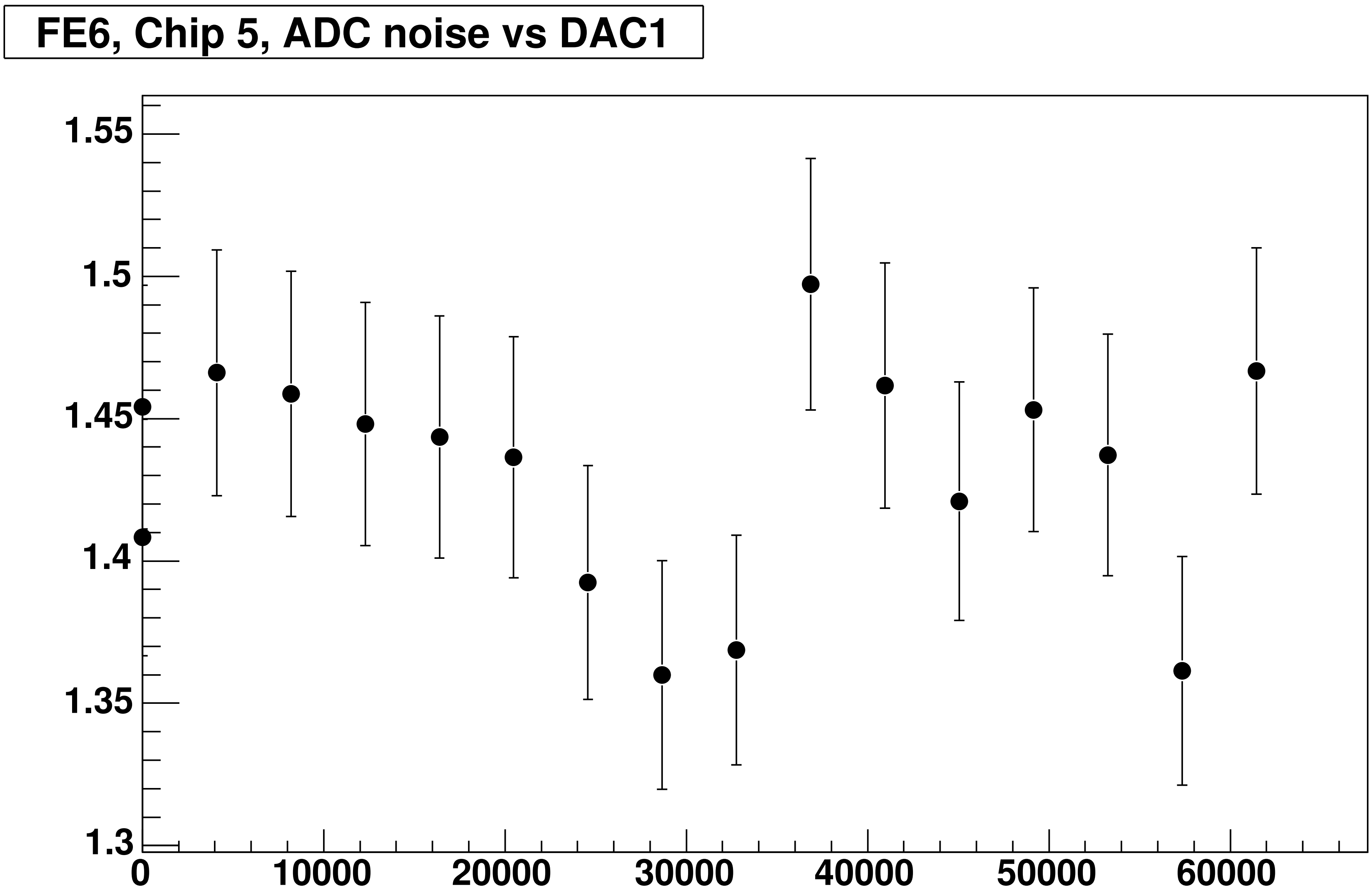


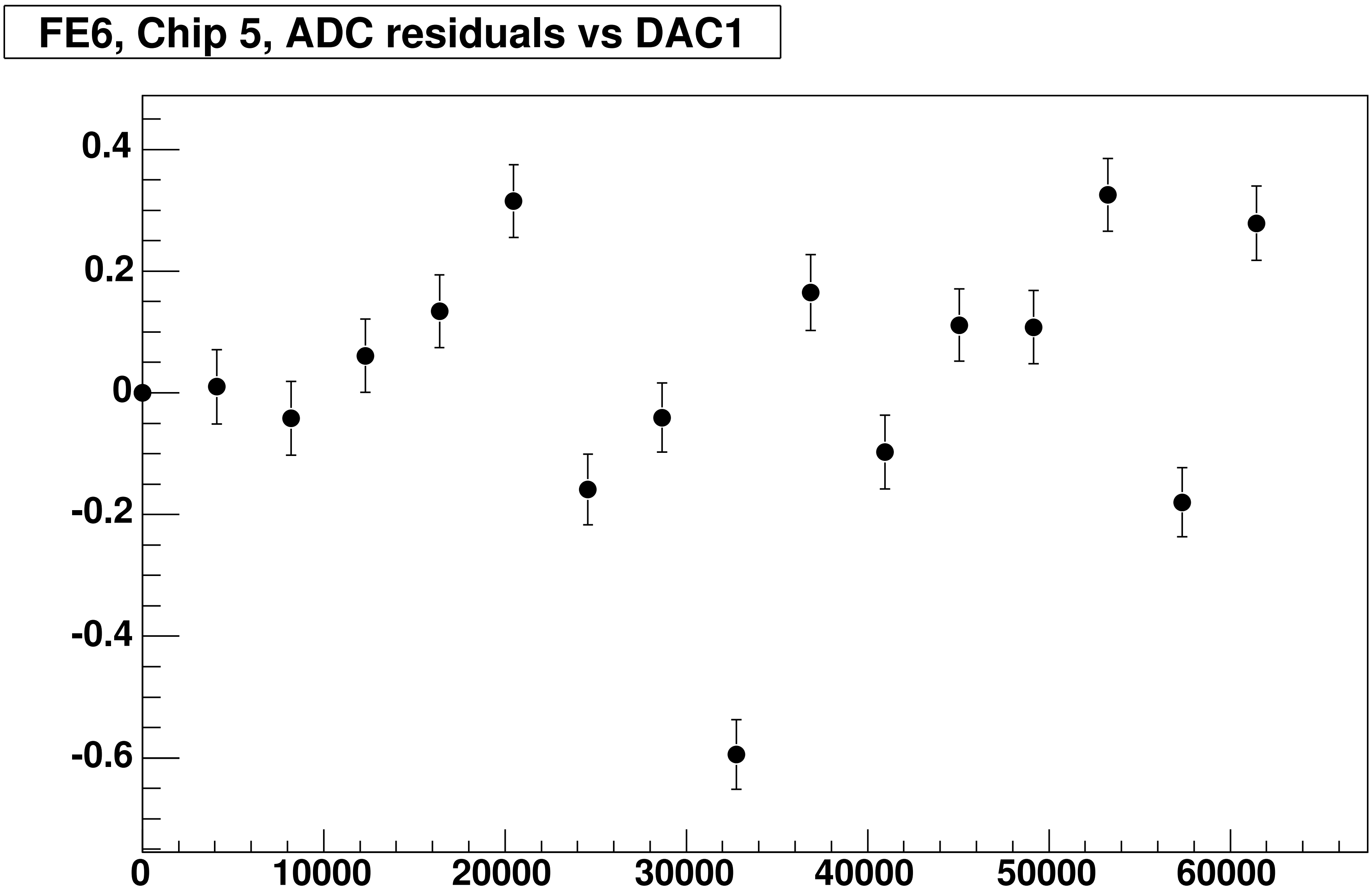
FE6, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1521 / 11
p0 14.31 ± 0.04223
p1 0.451 ± 1.382e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

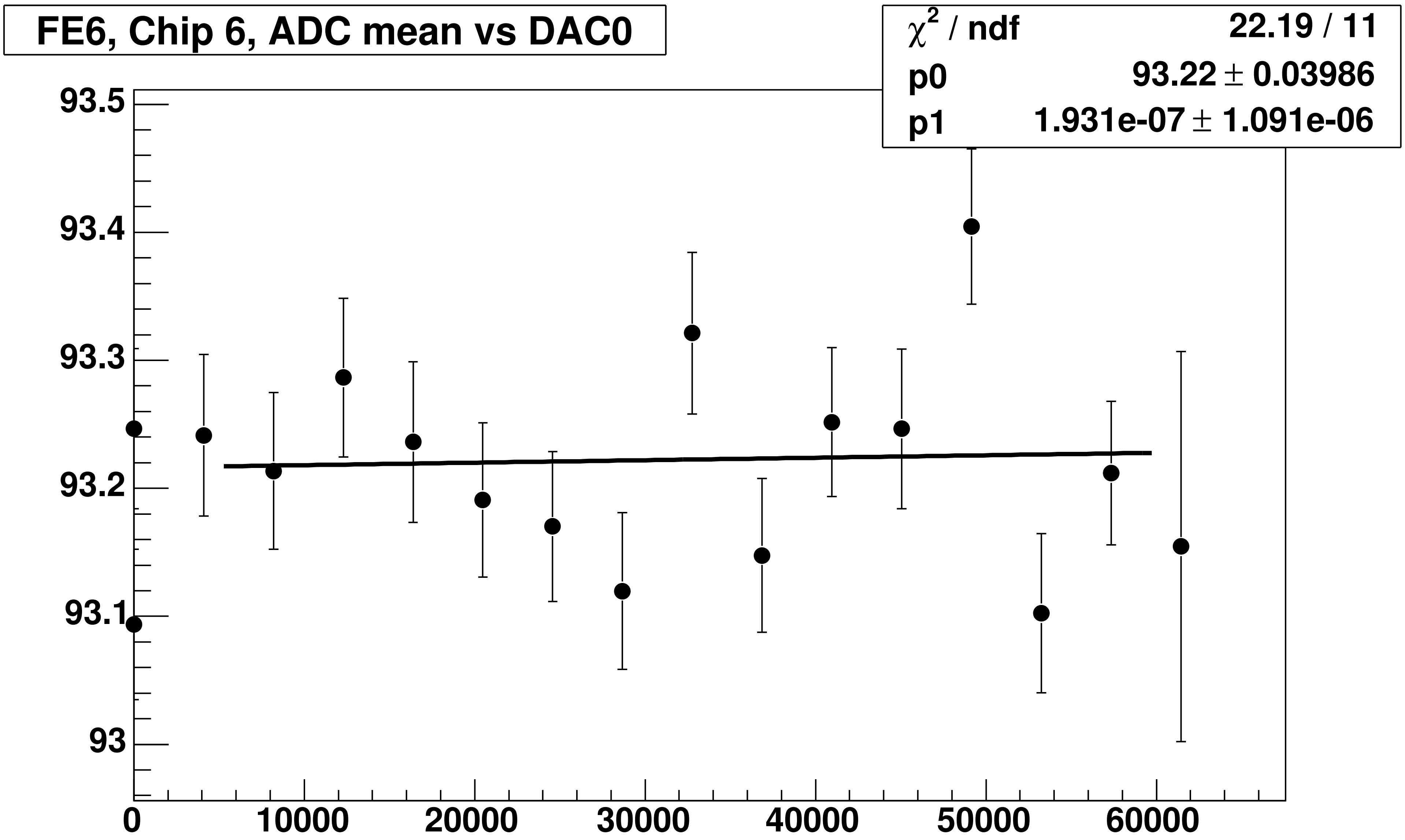

FE6, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

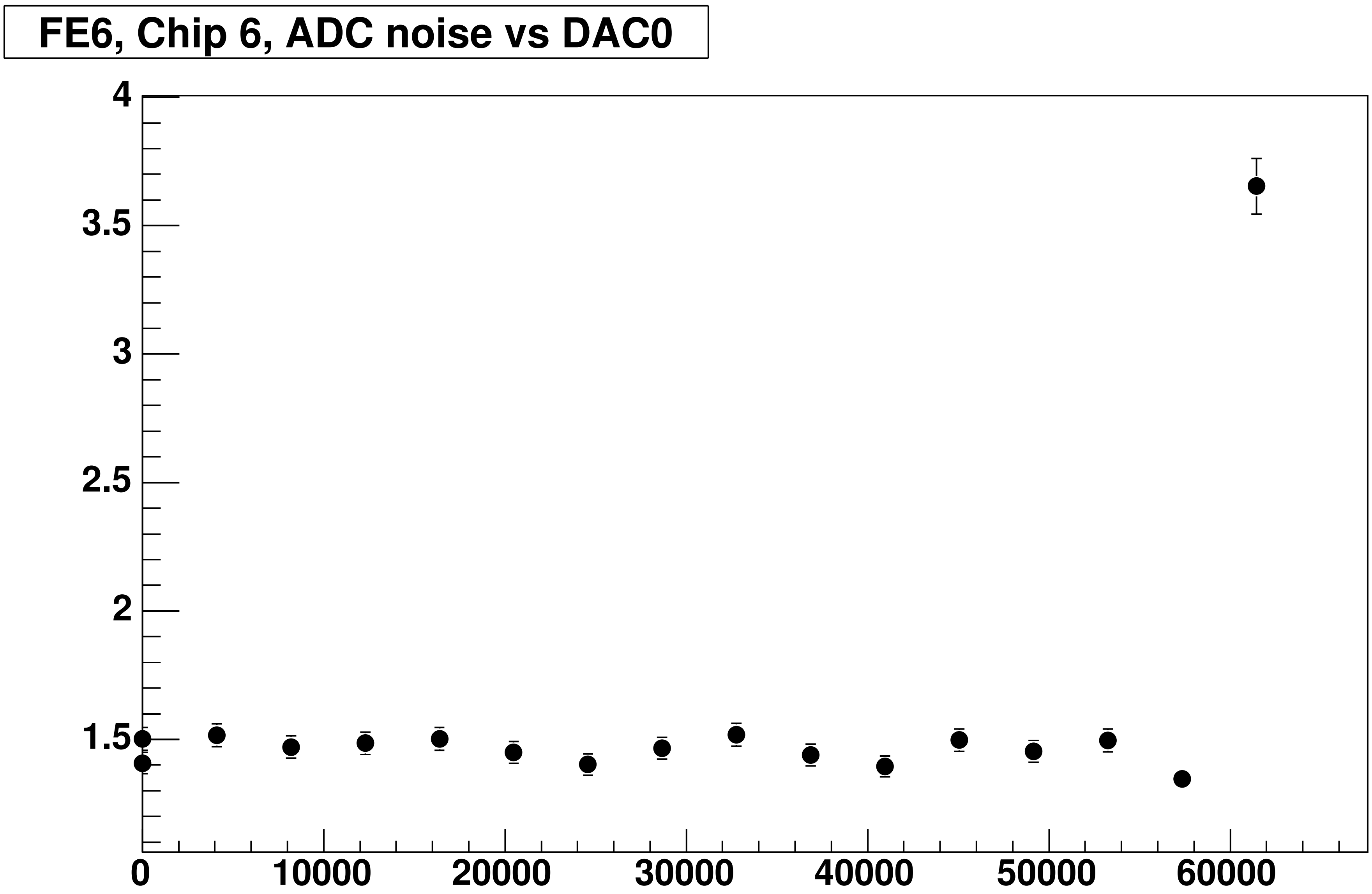

FE6, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

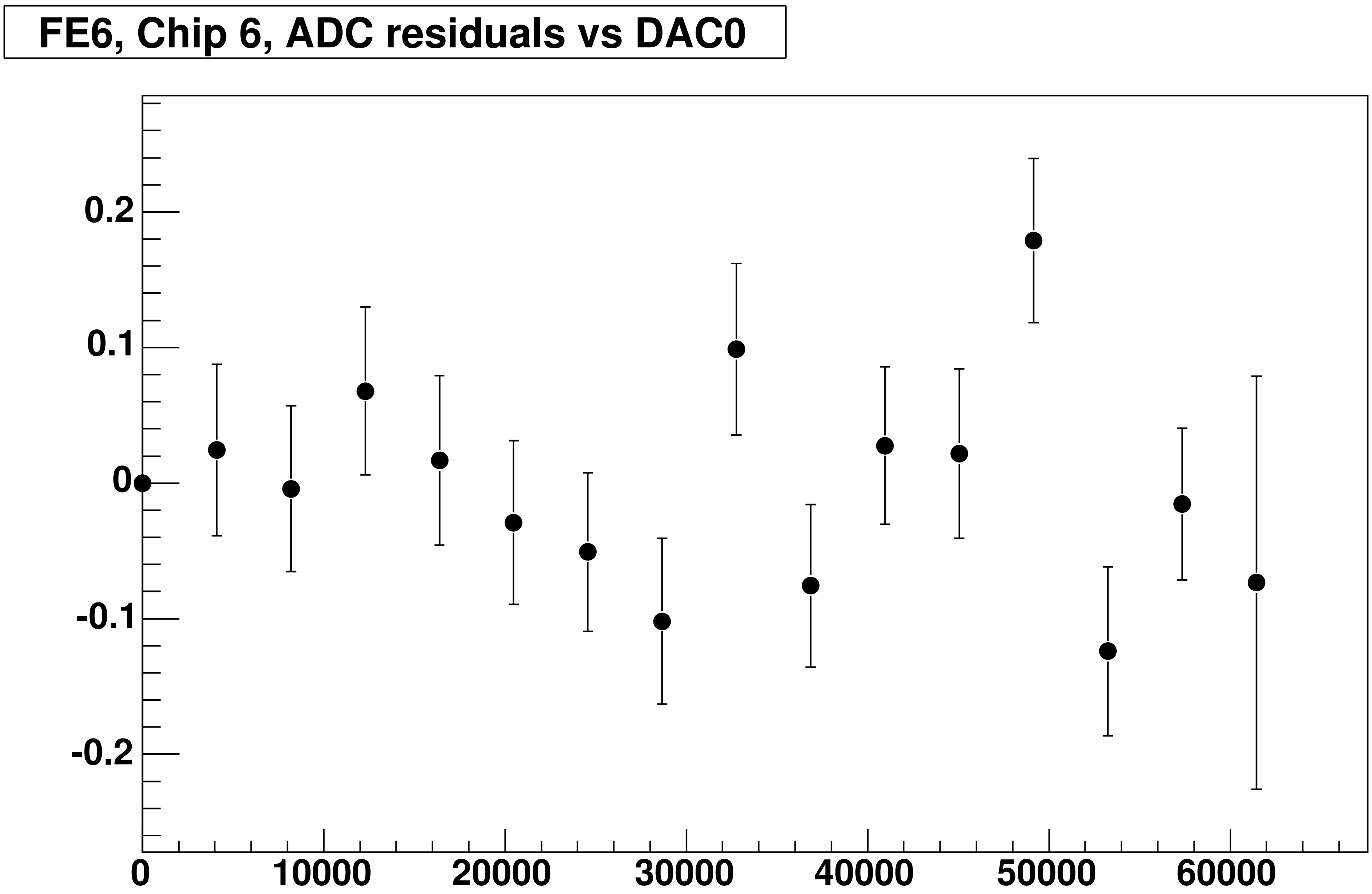

FE6, Chip 5, ADC mean vs DAC1
χ^2 / ndf 206.5 / 11
p0 11.5 ± 0.03908
p1 -3.441e-06 ± 1.076e-06
11.8
11.6
11.4
11.2
11
10.8
0
10000
20000
30000
40000
50000
60000

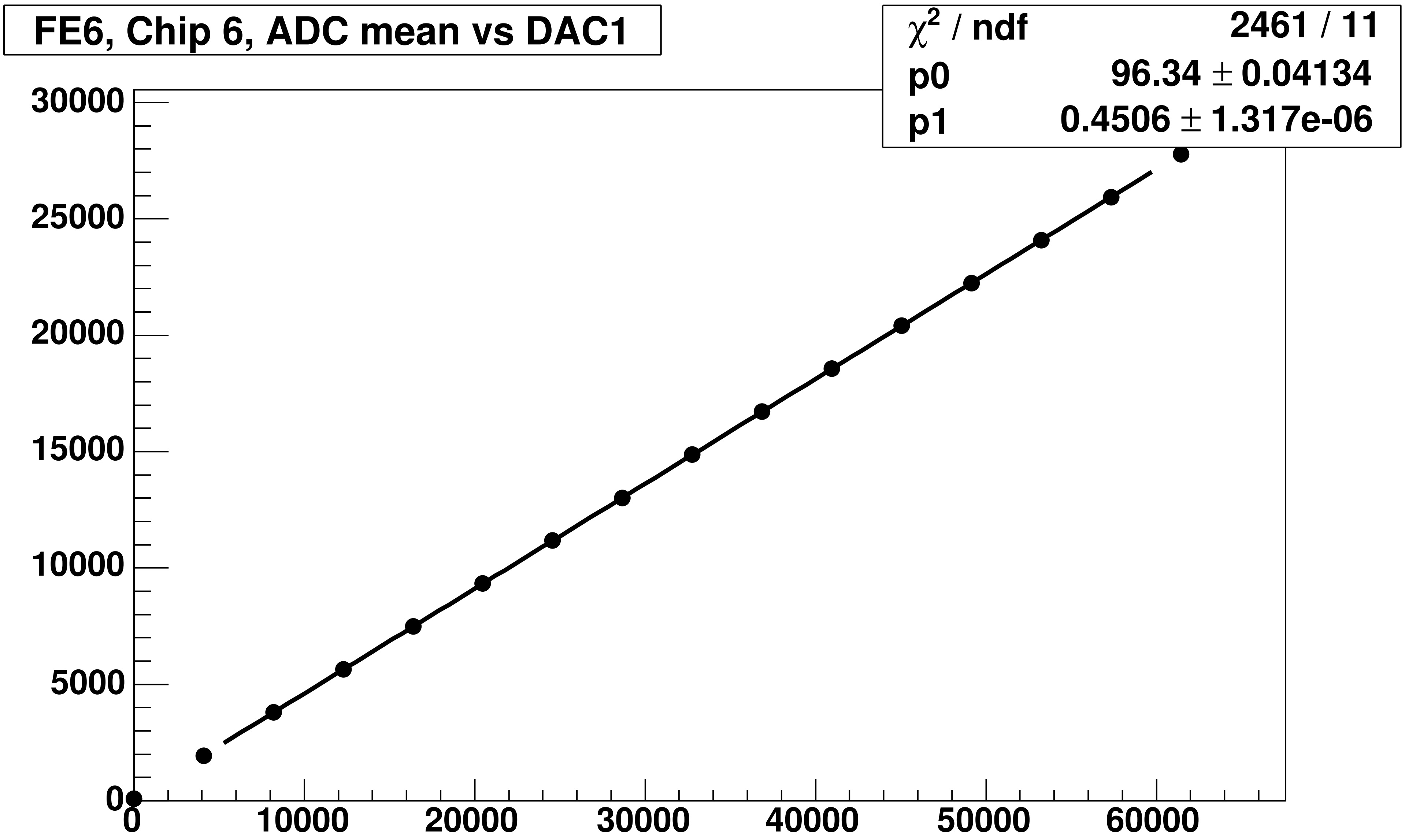

FE6, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


FE6, Chip 5, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

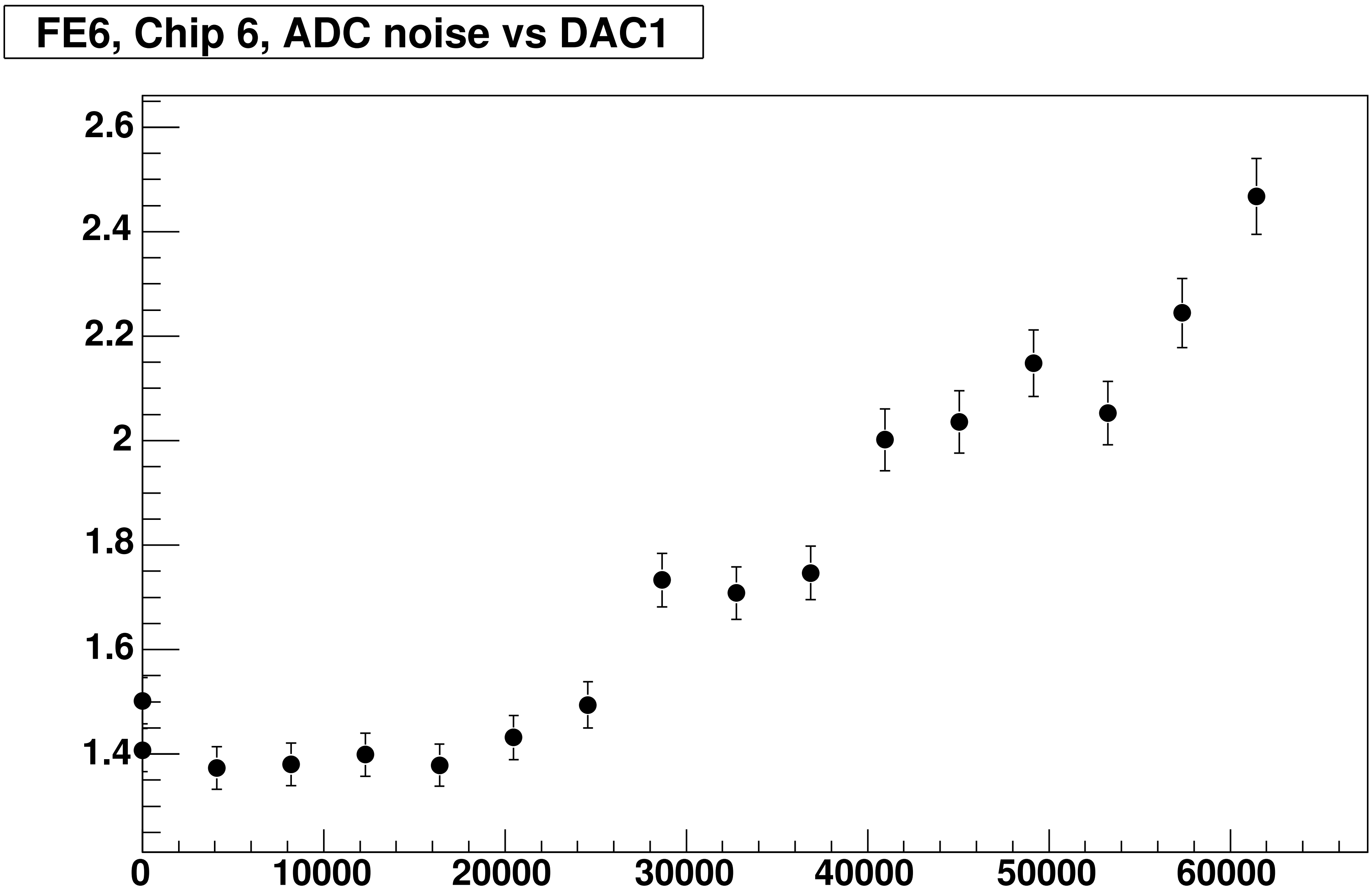

FE6, Chip 6, ADC mean vs DAC0
χ^2 / ndf 22.19 / 11
p0 93.22 ± 0.03986
p1 1.931e-07 ± 1.091e-06
93.5
93.4
93.3
93.2
93.1
93
0
10000
20000
30000
40000
50000
60000

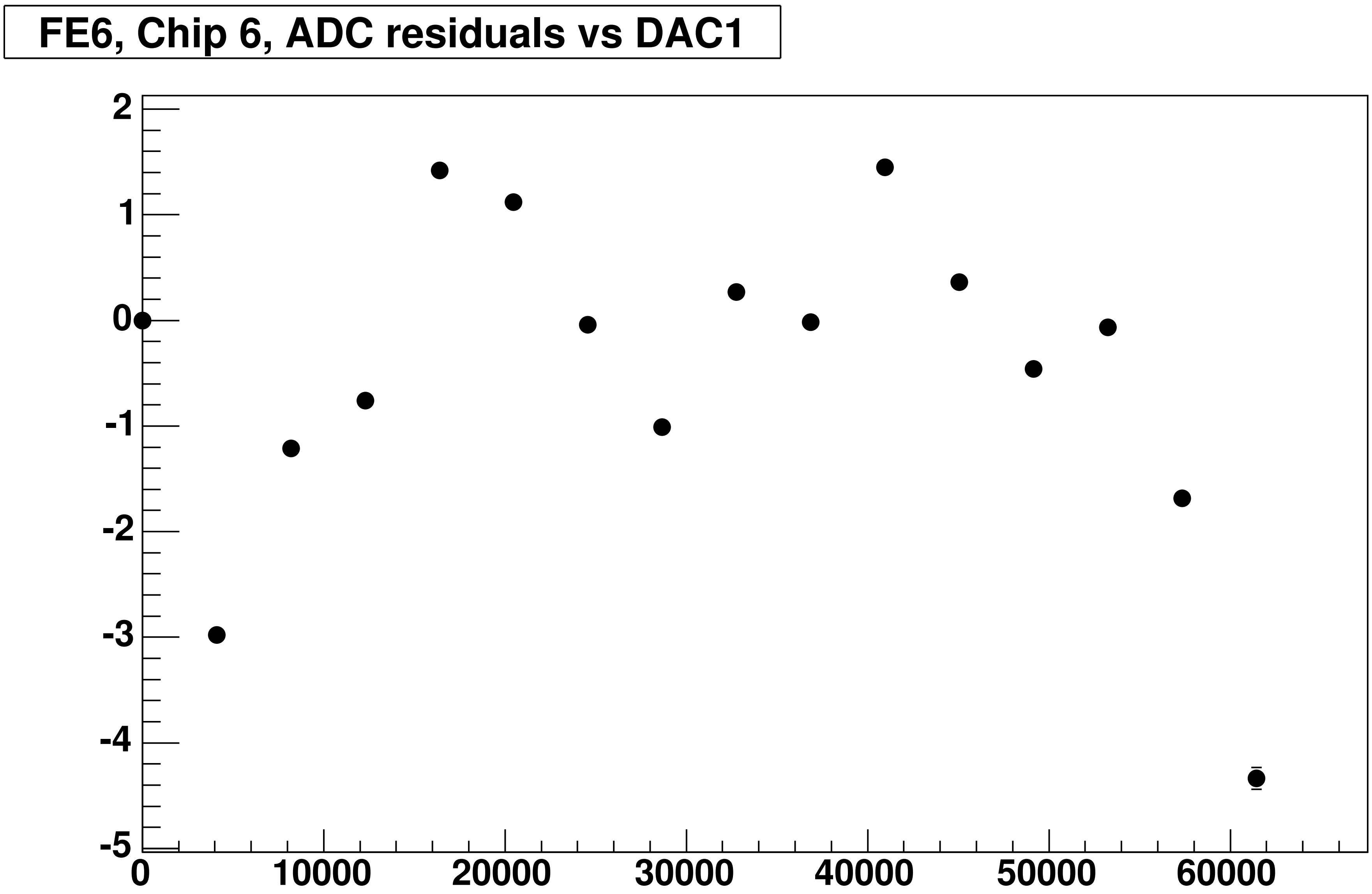

FE6, Chip 6, ADC noise vs DAC0
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

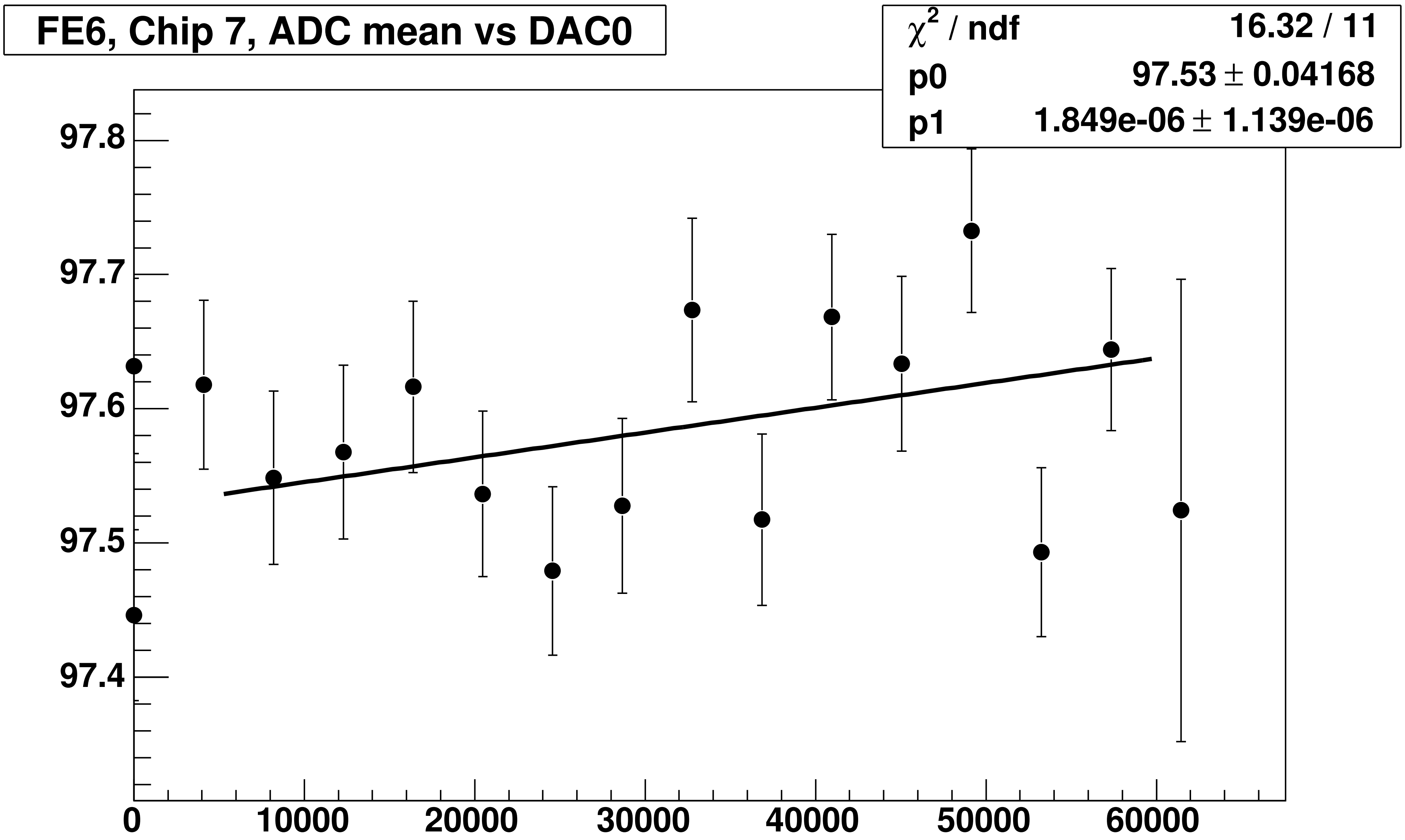

FE6, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



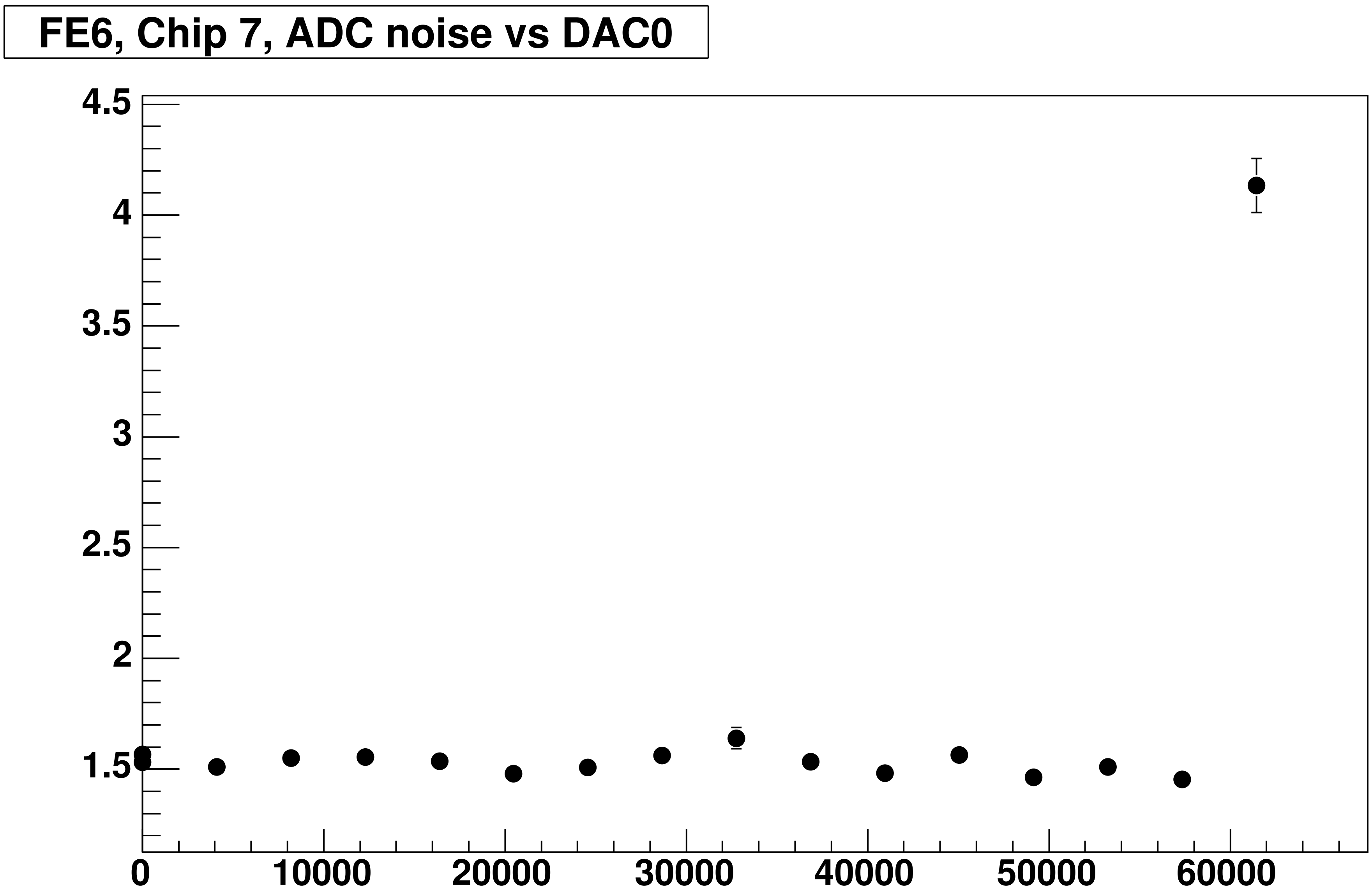
FE6, Chip 6, ADC mean vs DAC1
χ^2 / ndf 2461 / 11
p0 96.34 ± 0.04134
p1 0.4506 ± 1.317e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

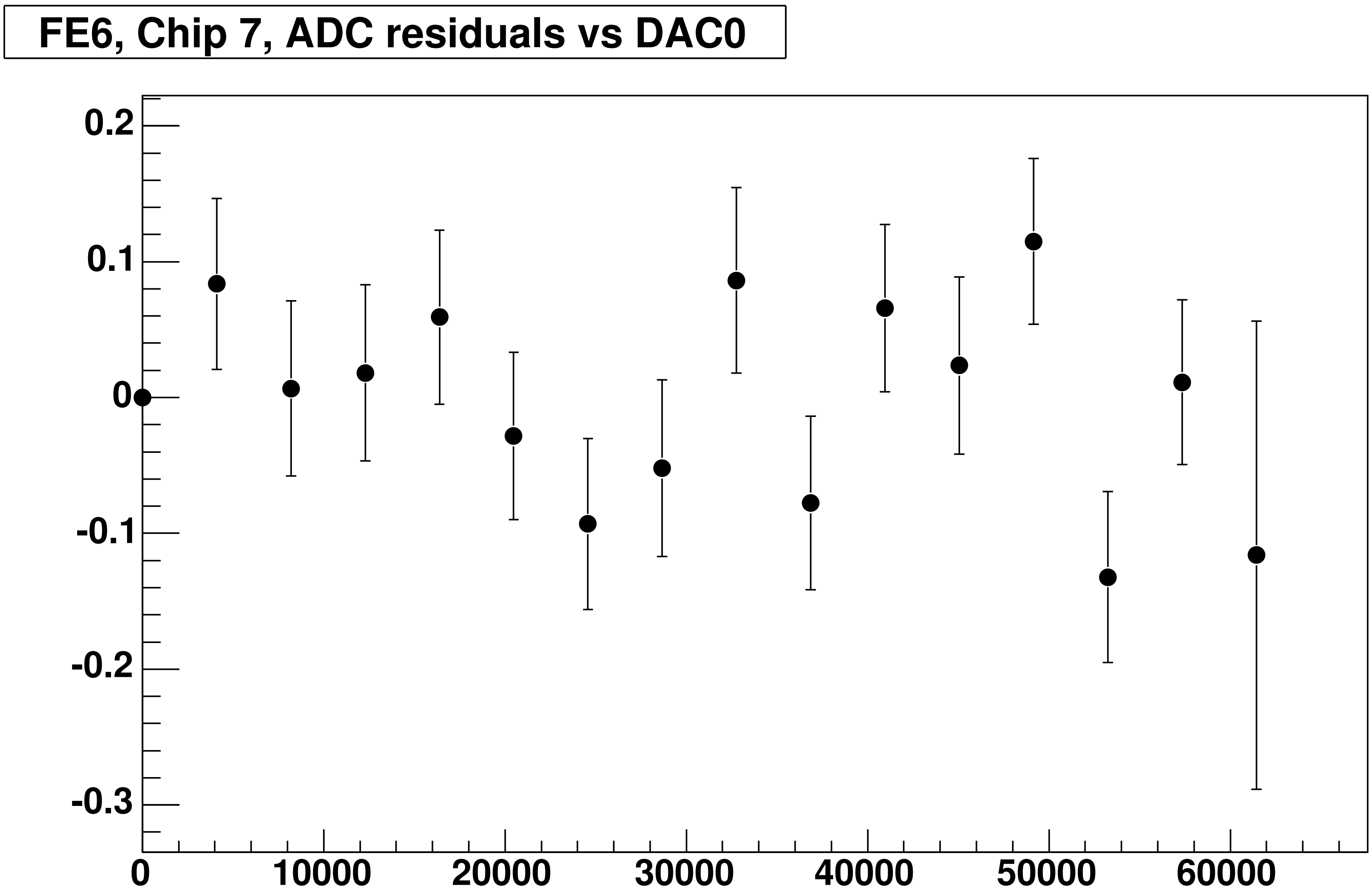

FE6, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

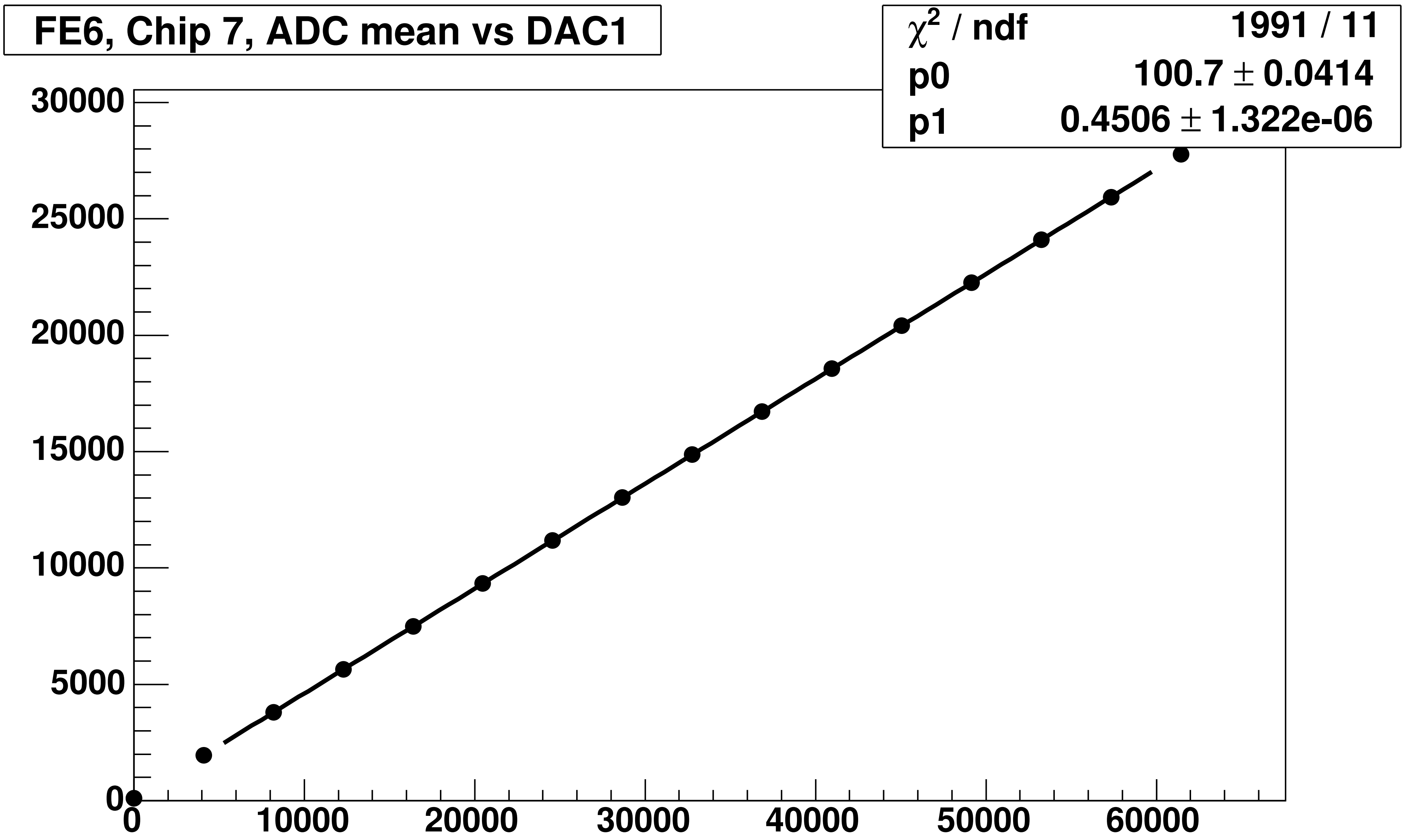


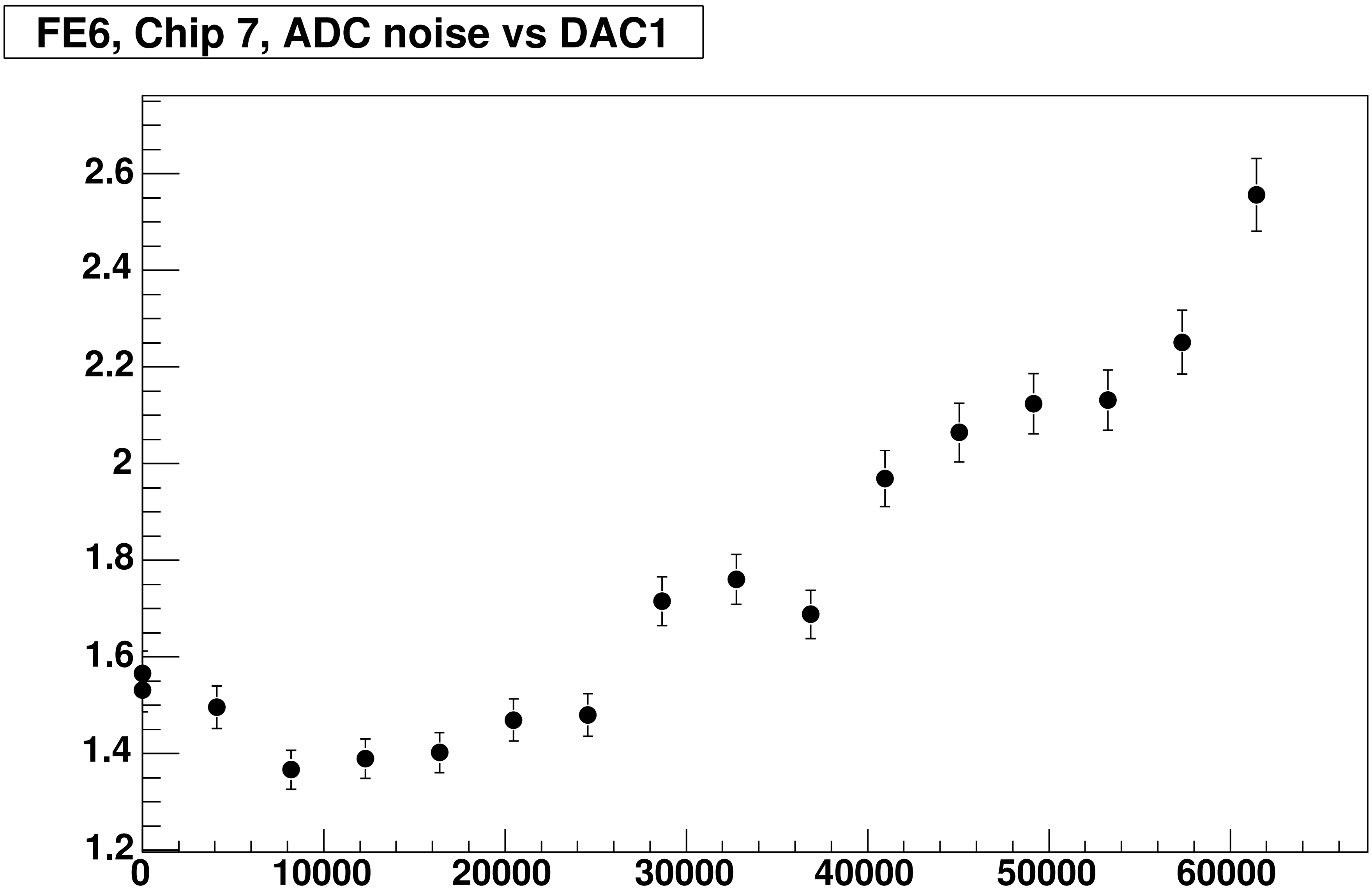
FE6, Chip 7, ADC mean vs DAC0
χ^2 / ndf 16.32 / 11
p0 97.53 ± 0.04168
p1 1.849e-06 ± 1.139e-06
97.8
97.7
97.6
97.5
97.4
0
10000
20000
30000
40000
50000
60000

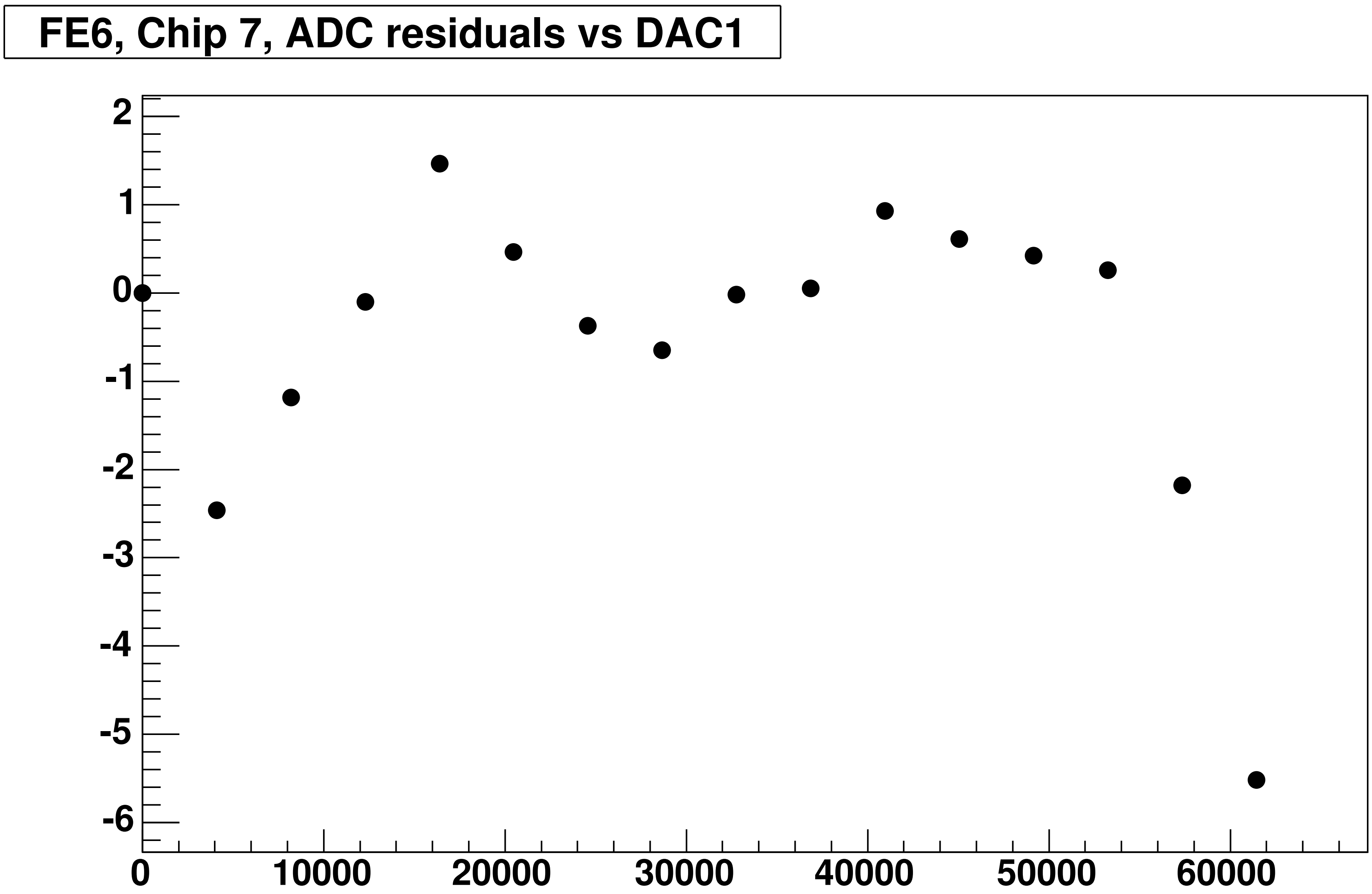

FE6, Chip 7, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

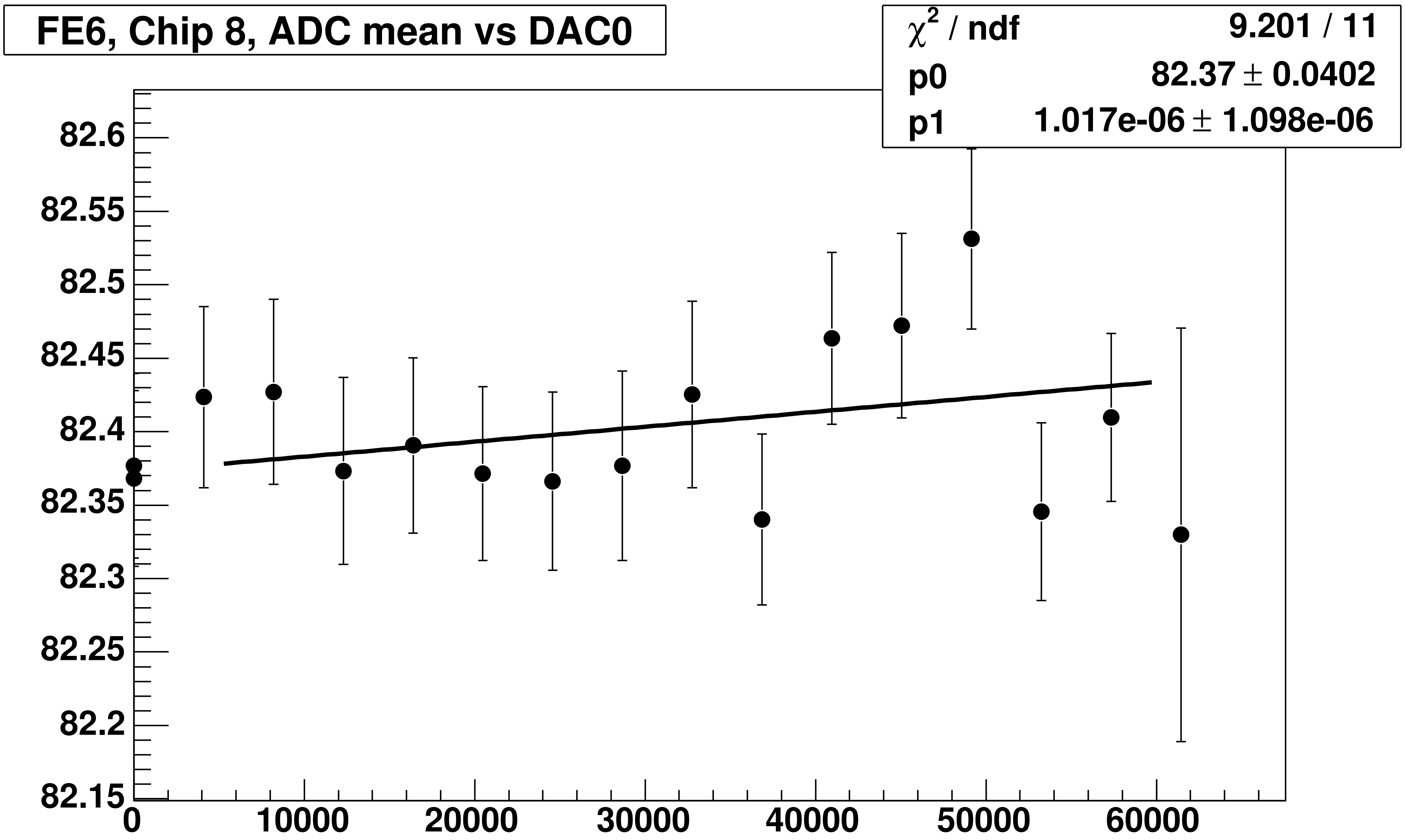


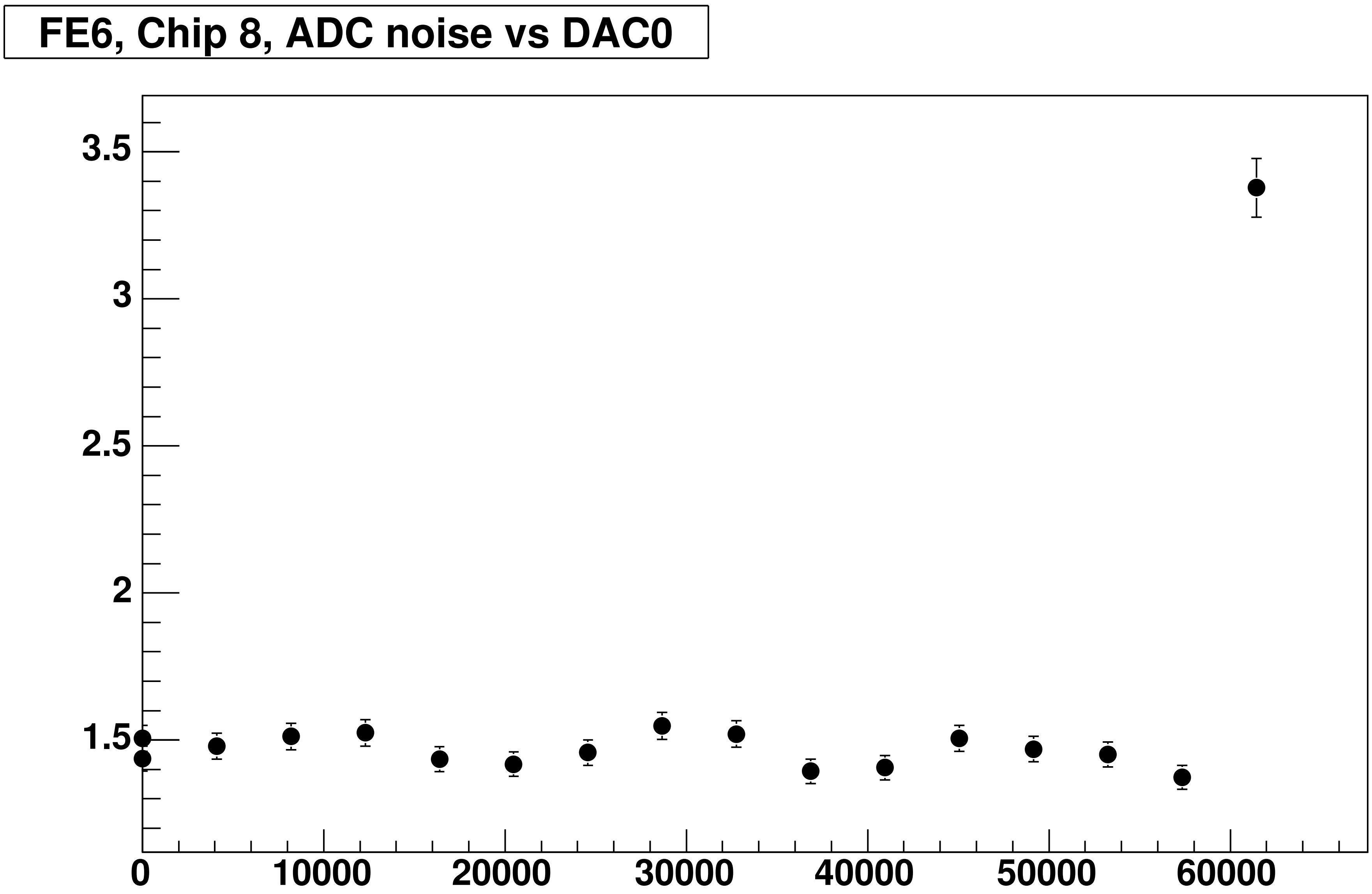
FE6, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE6, Chip 7, ADC mean vs DAC1
χ2 / ndf 1991 / 11
p0 100.7 ± 0.0414
p1 0.4506 ± 1.322e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

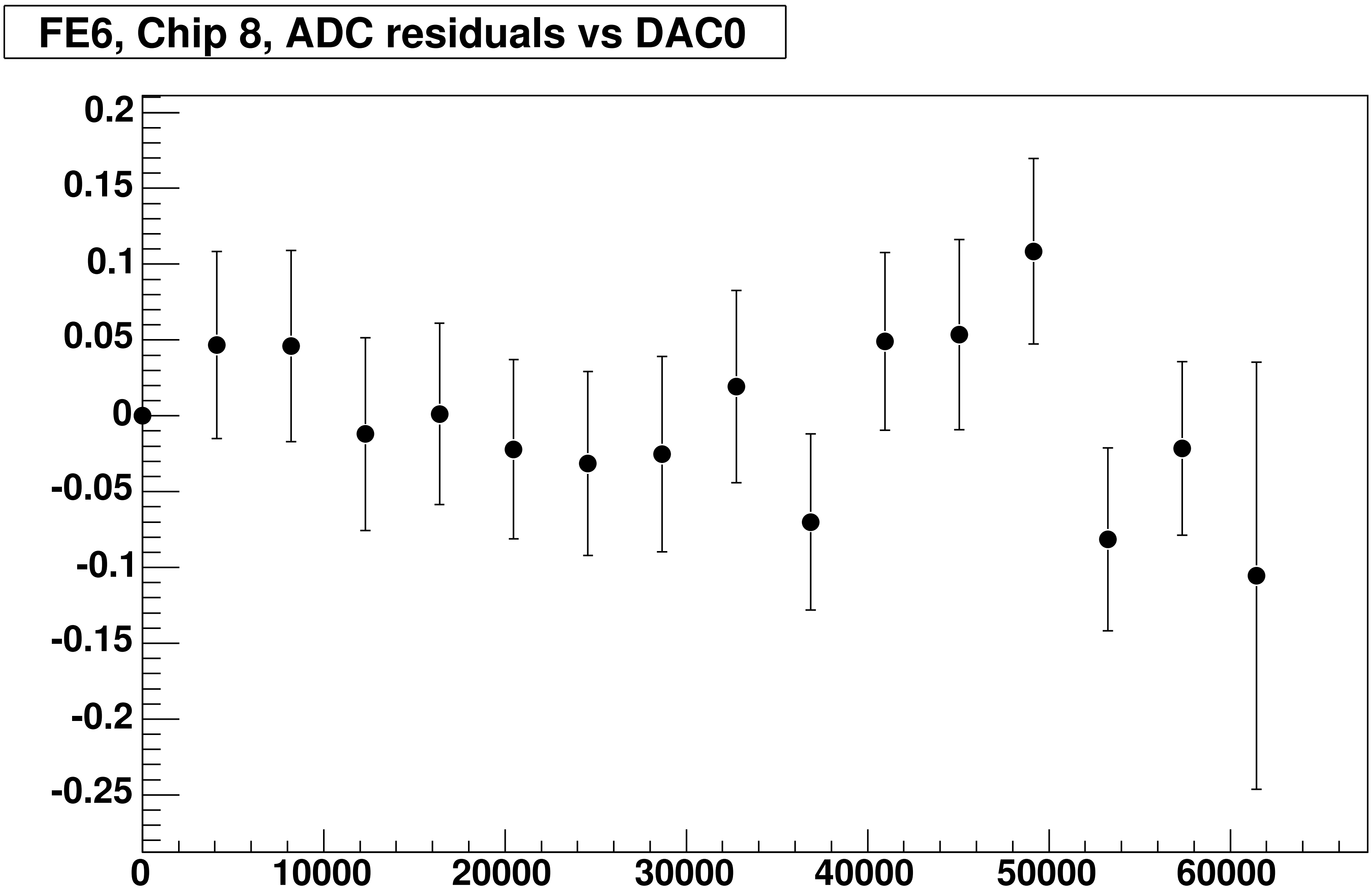

FE6, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

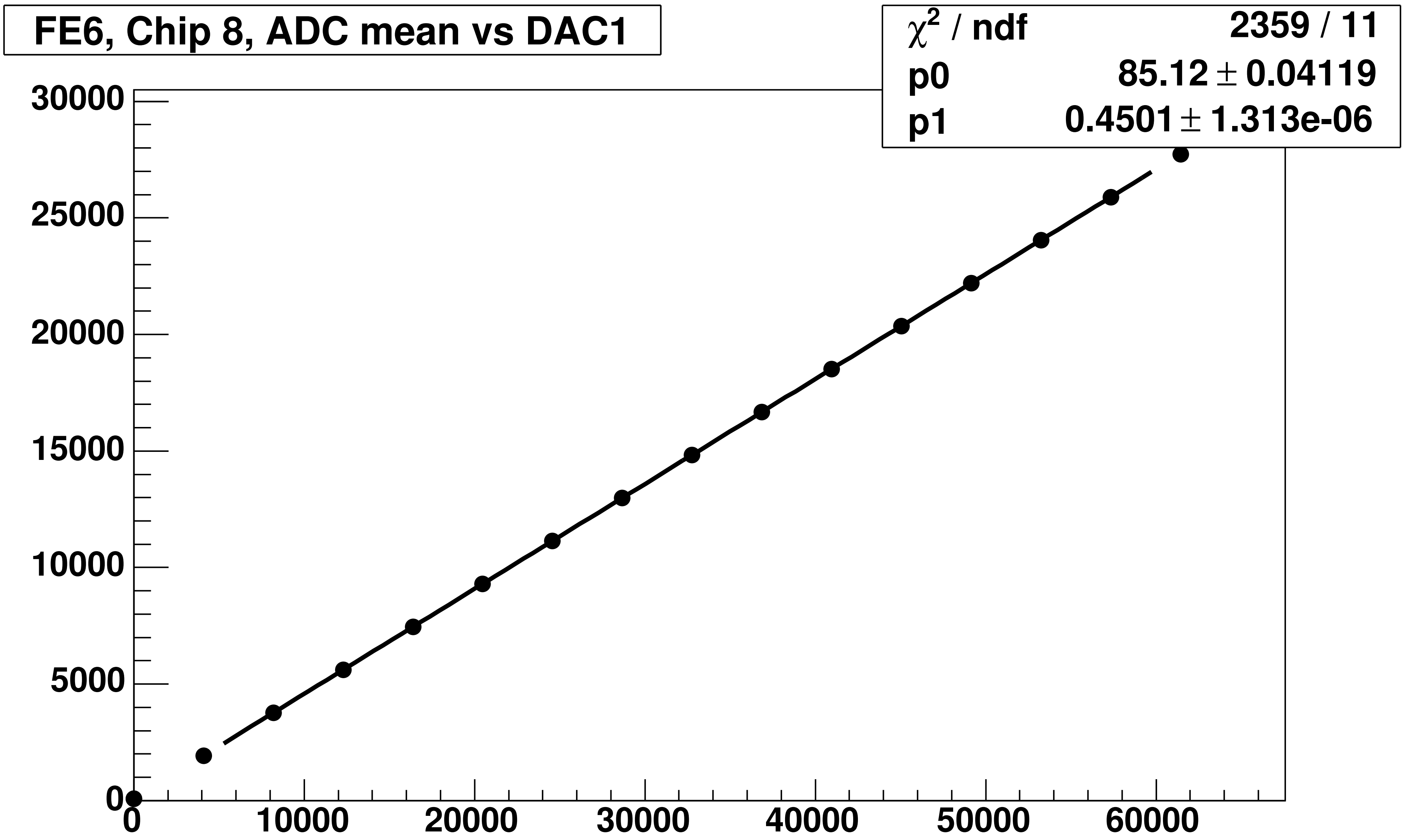

FE6, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE6, Chip 8, ADC mean vs DAC0
χ² / ndf 9.201 / 11
p0 82.37 ± 0.0402
p1 1.017e-06 ± 1.098e-06
82.6
82.55
82.5
82.45
82.4
82.35
82.3
82.25
82.2
82.15
0
10000
20000
30000
40000
50000
60000

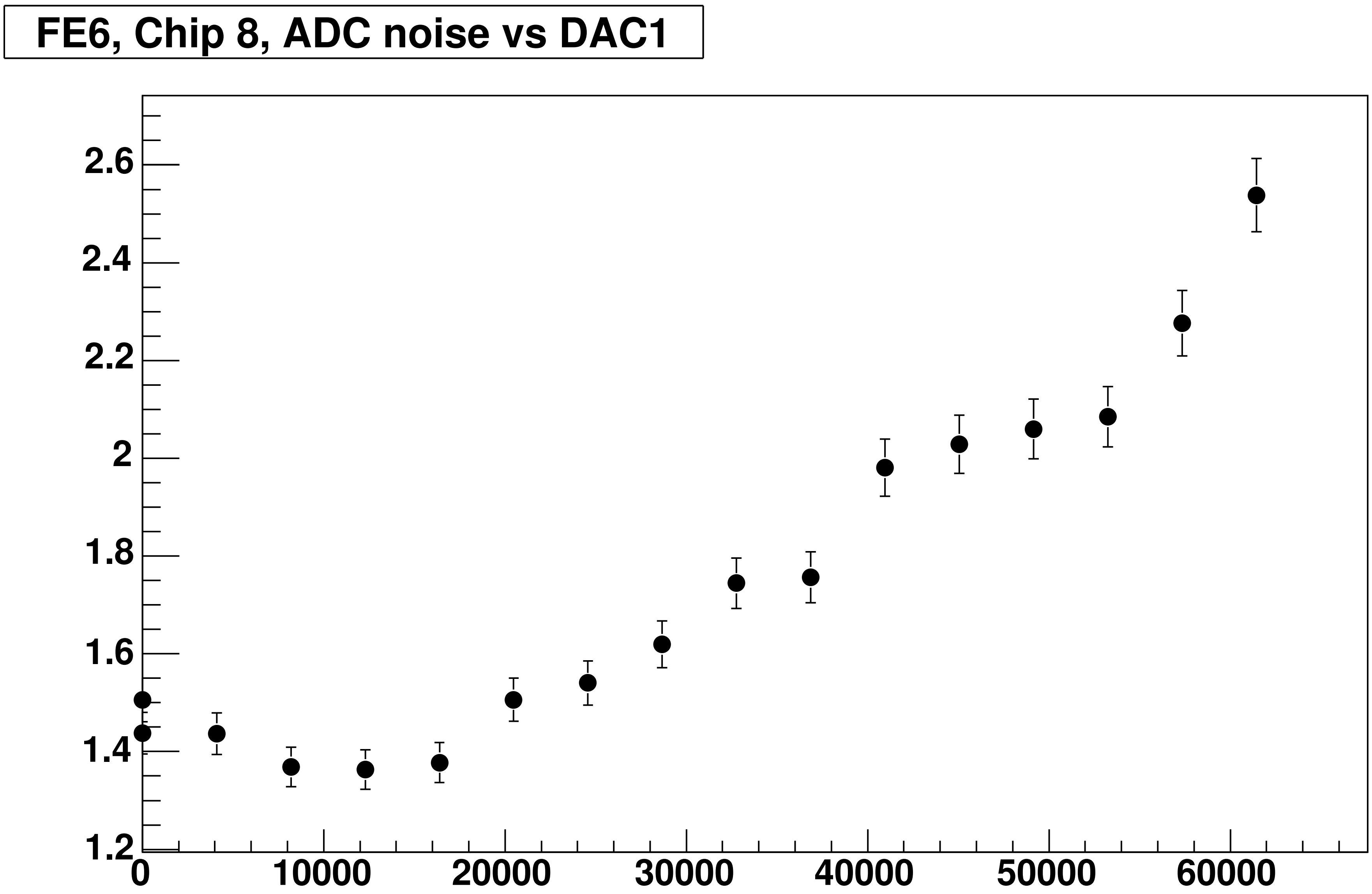


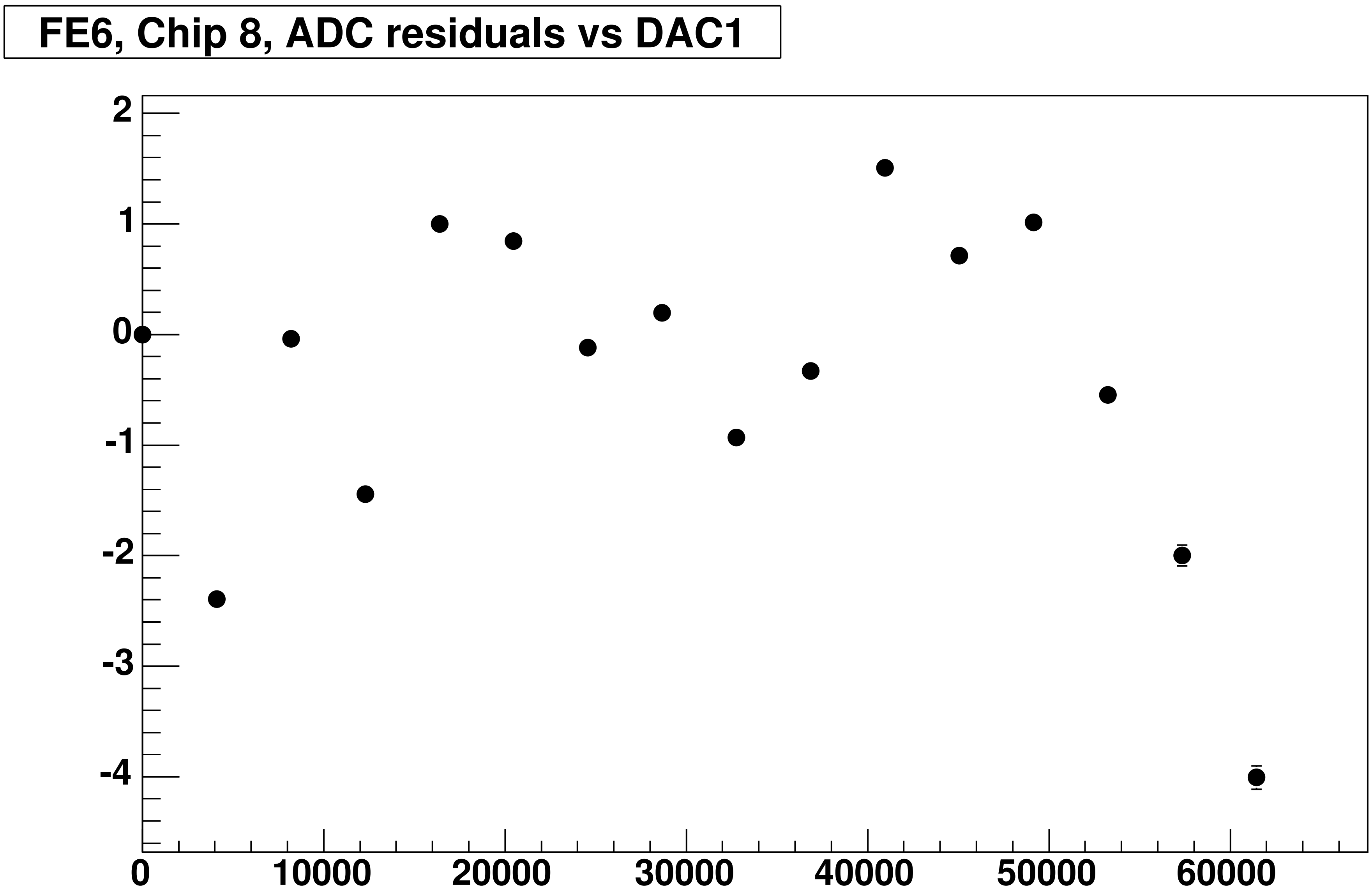
FE6, Chip 8, ADC noise vs DAC0
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

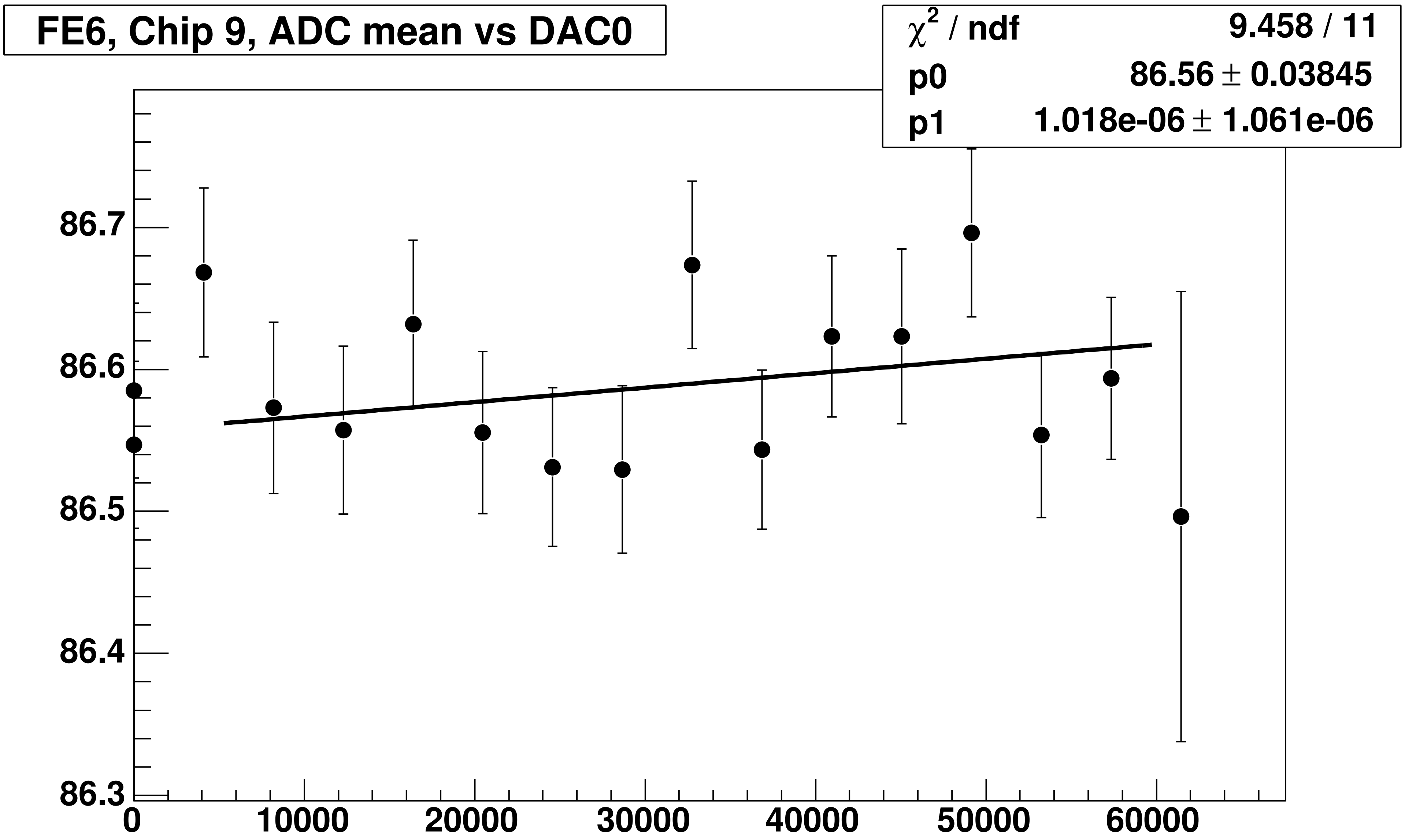

FE6, Chip 8, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

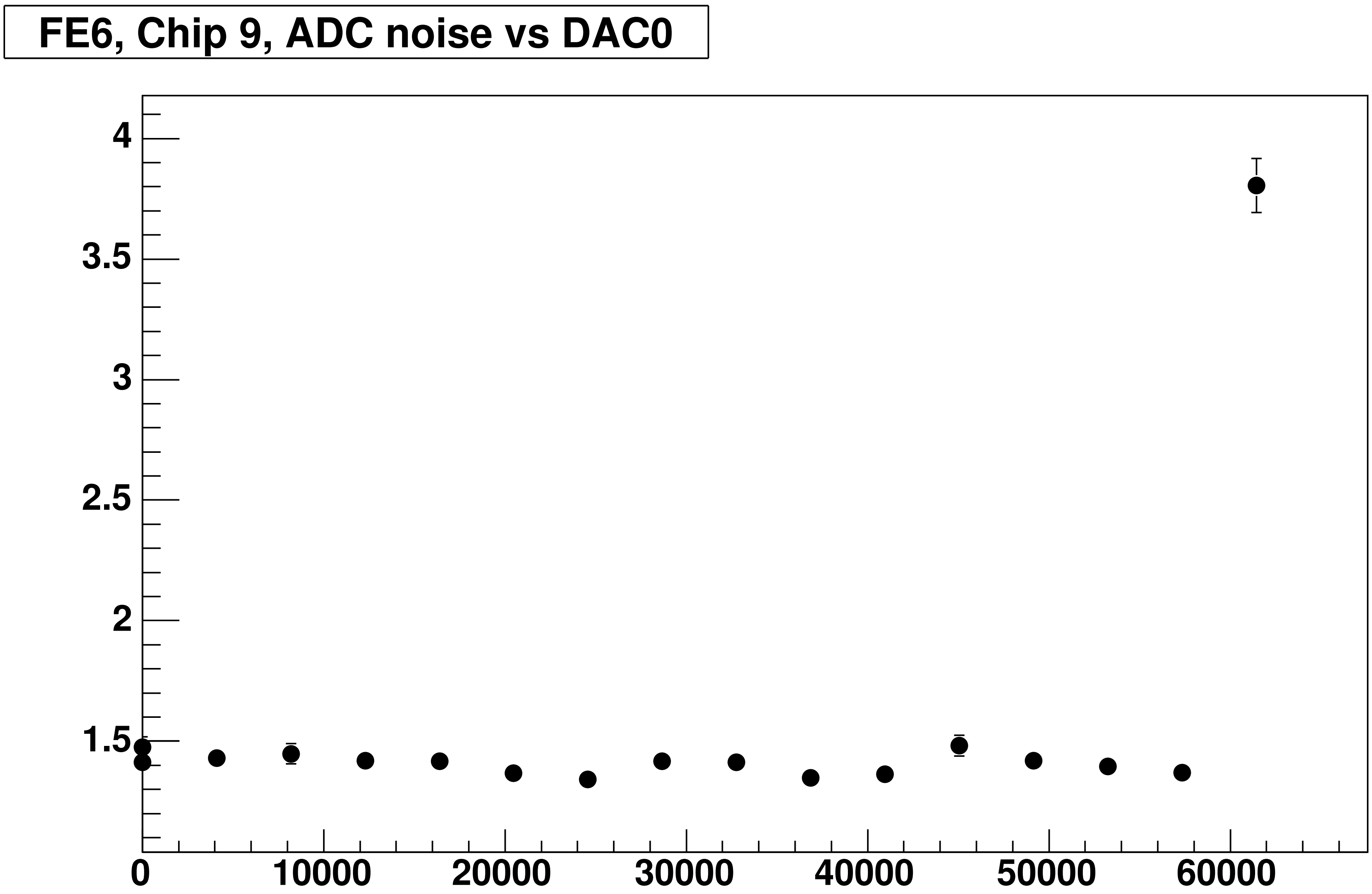


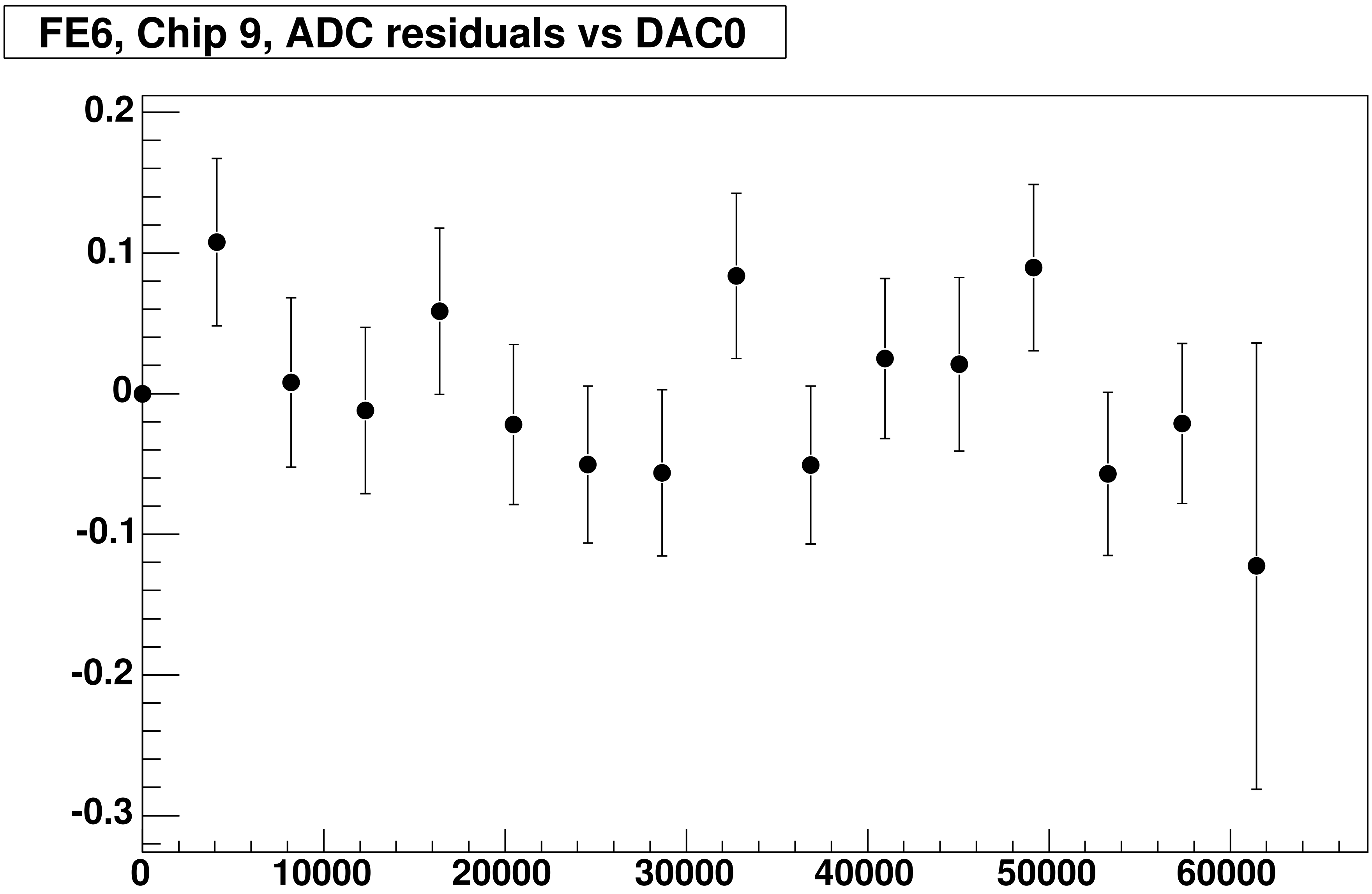
FE6, Chip 8, ADC mean vs DAC1
χ^2 / ndf 2359 / 11
p0 85.12 ± 0.04119
p1 0.4501 ± 1.313e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

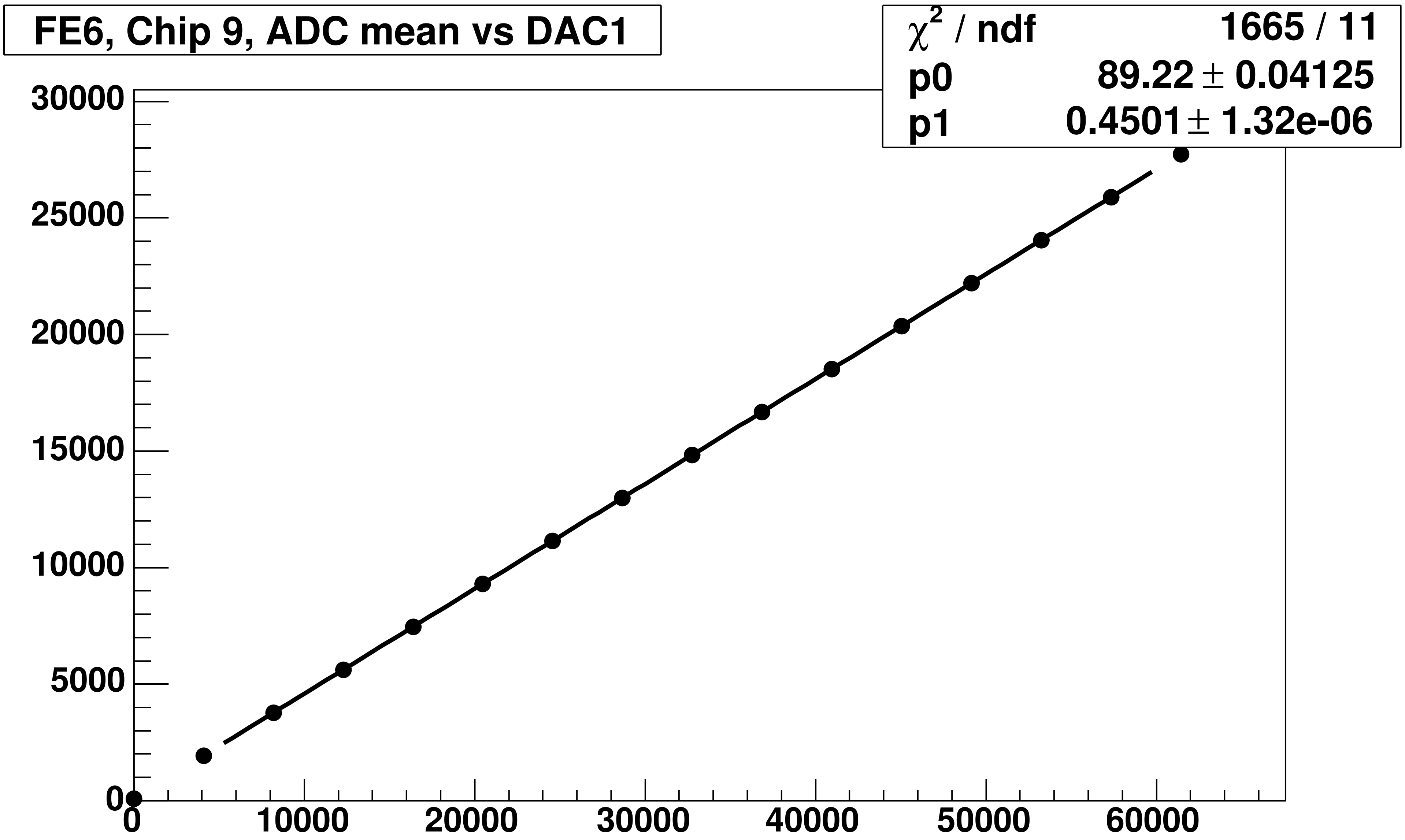

FE6, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

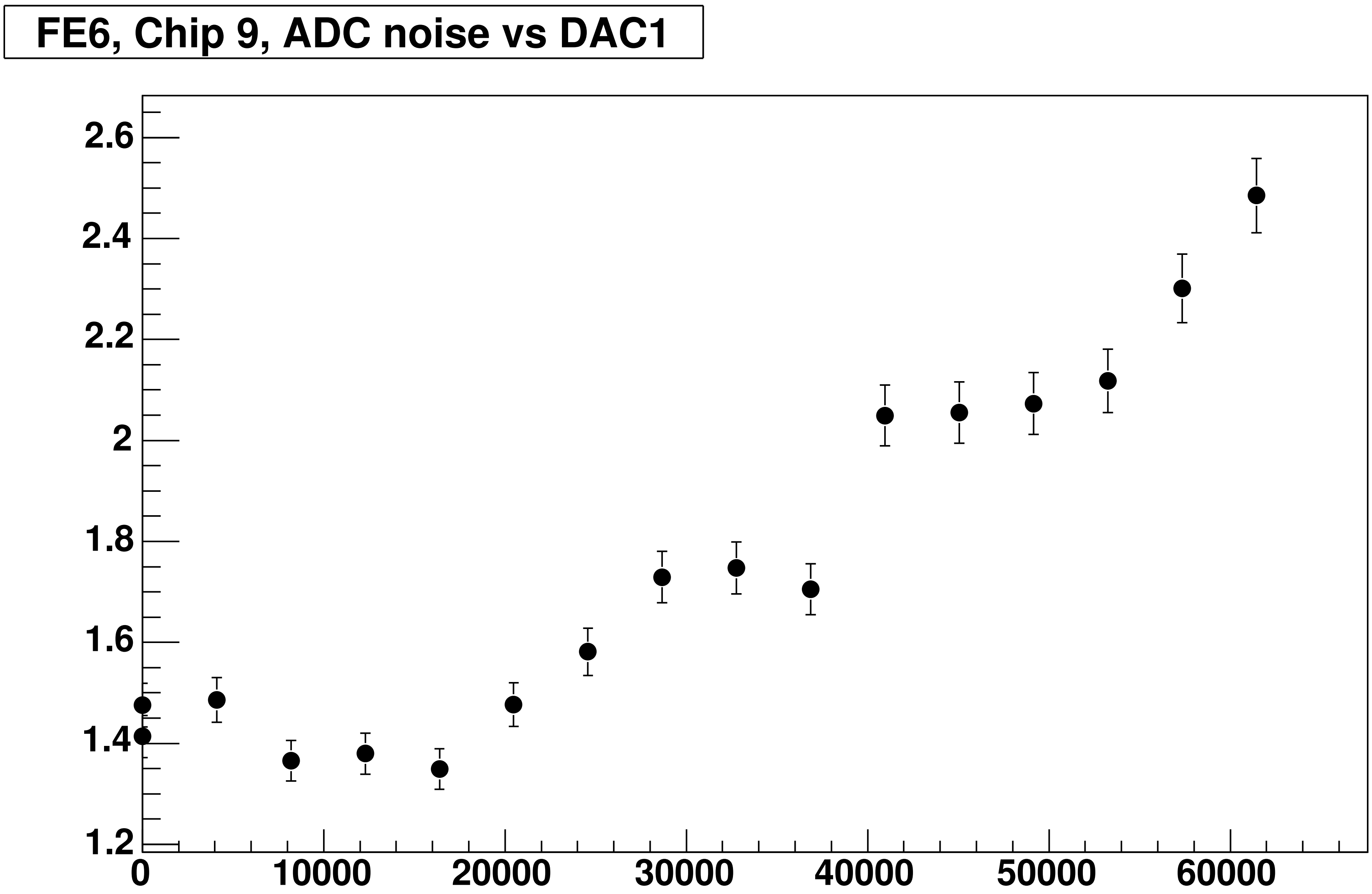

FE6, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

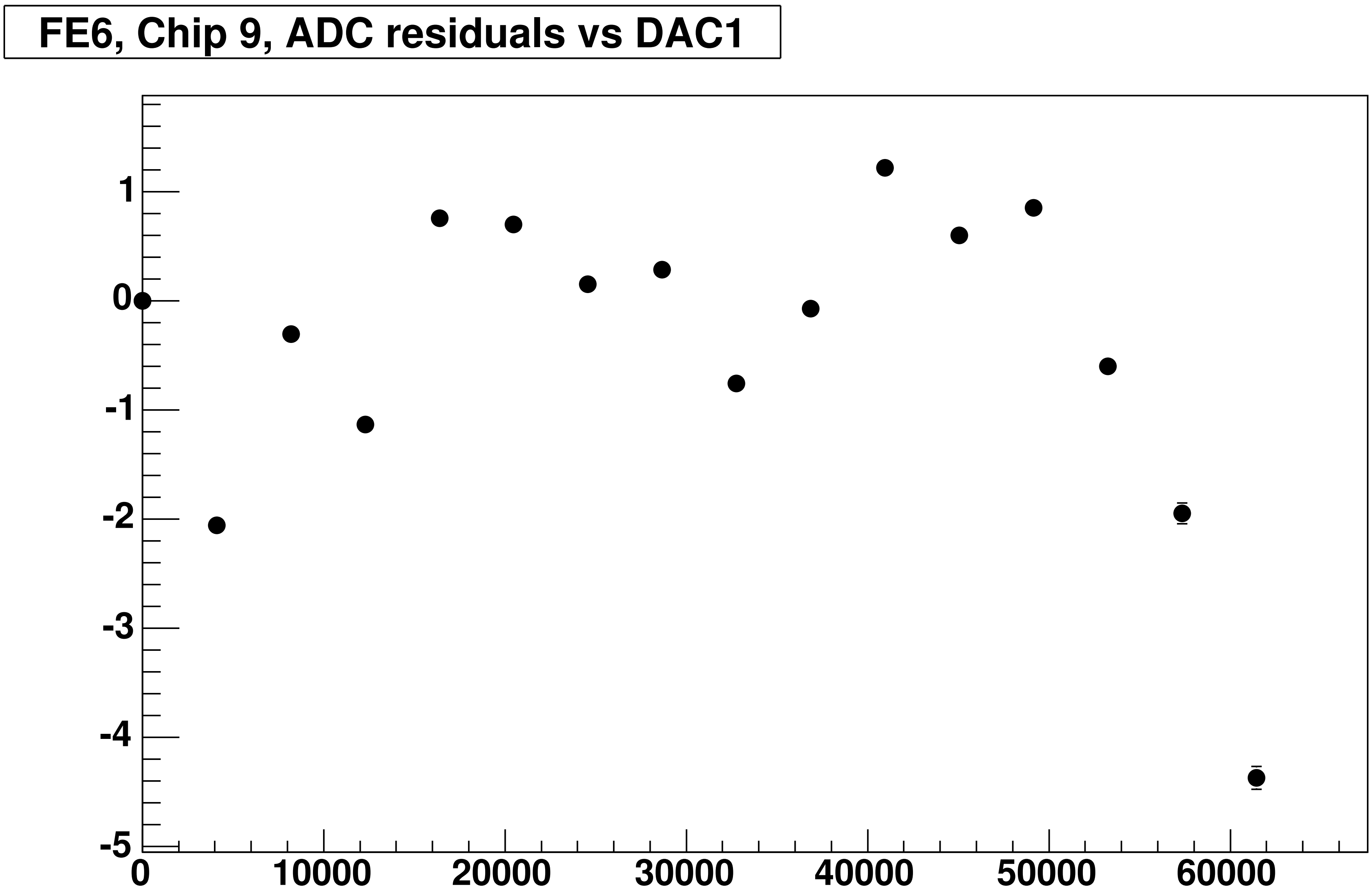

FE6, Chip 9, ADC mean vs DAC0
χ^2 / ndf 9.458 / 11
p0 86.56 ± 0.03845
p1 1.018e-06 ± 1.061e-06
86.3
86.4
86.5
86.6
86.7
0
10000
20000
30000
40000
50000
60000

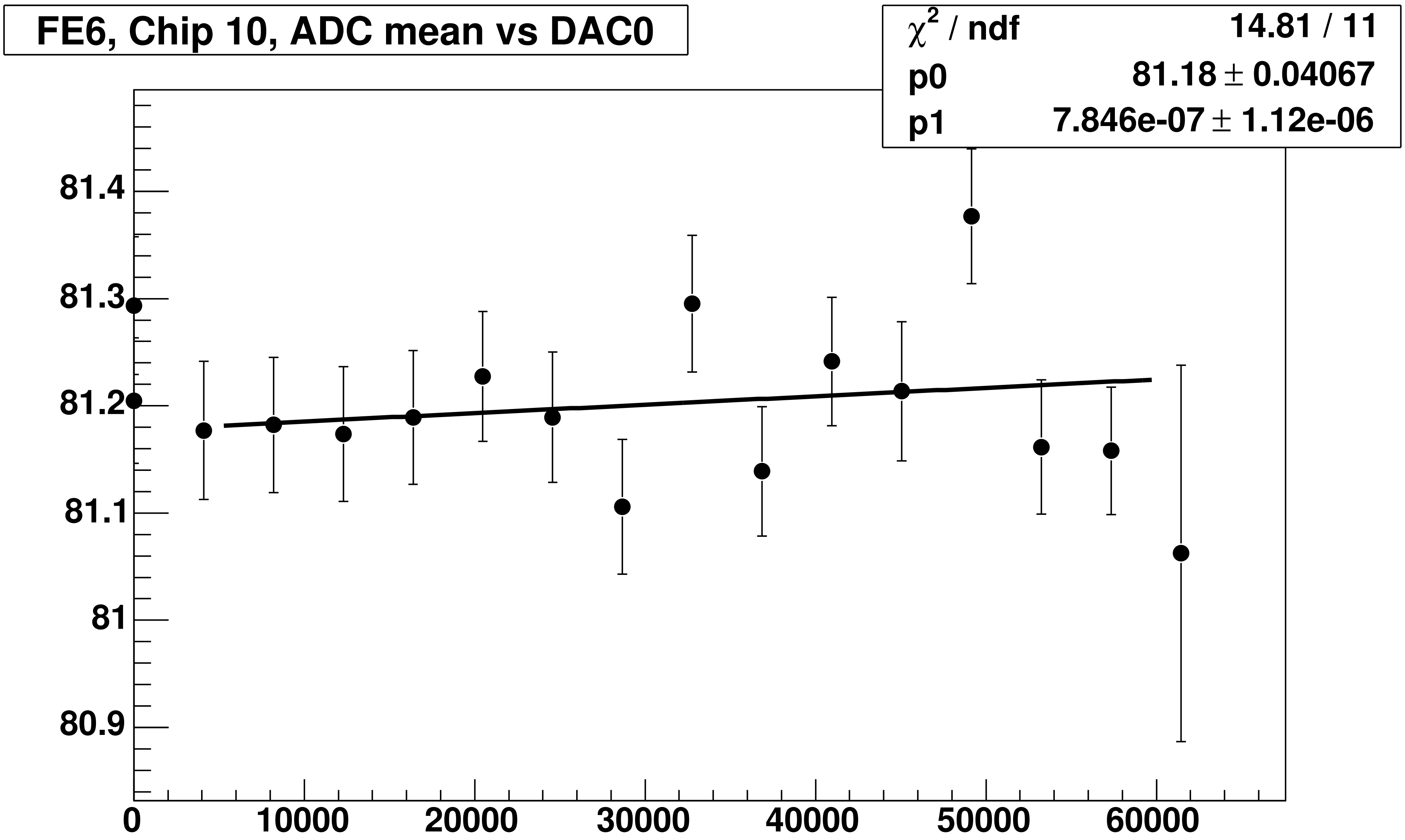

FE6, Chip 9, ADC noise vs DAC0
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000


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

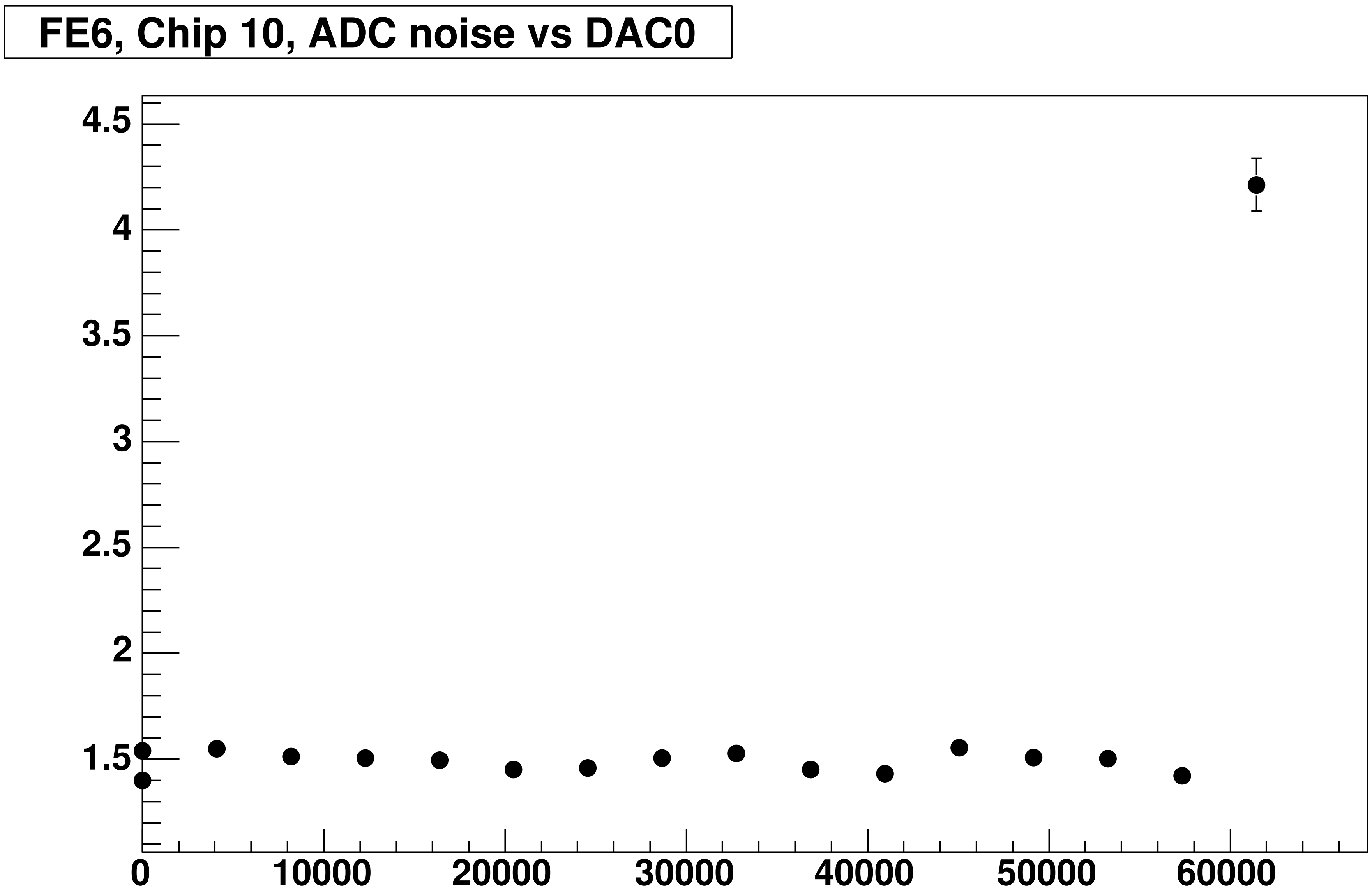

FE6, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1665 / 11
p0 89.22 ± 0.04125
p1 0.4501 ± 1.32e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

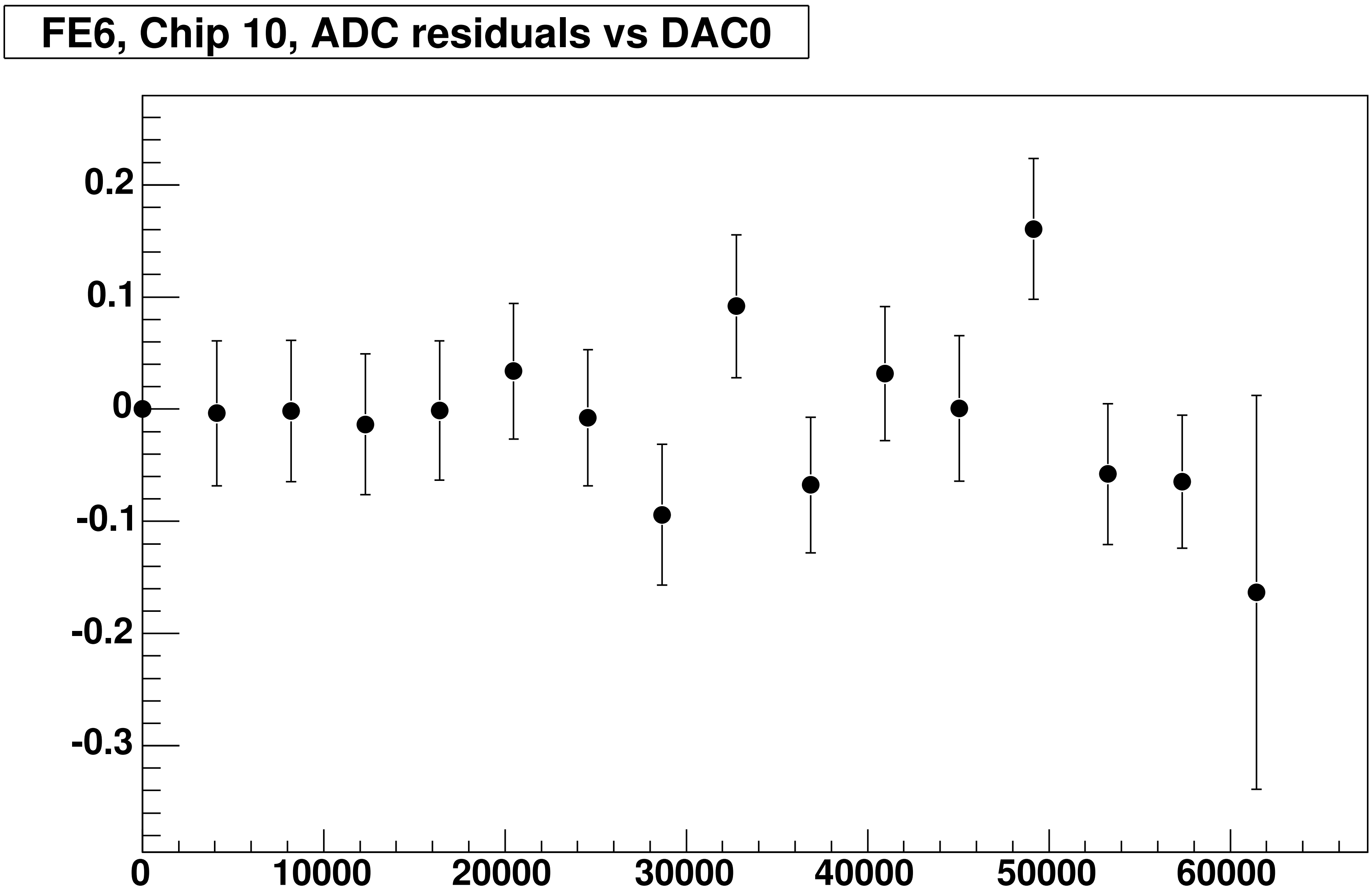

FE6, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

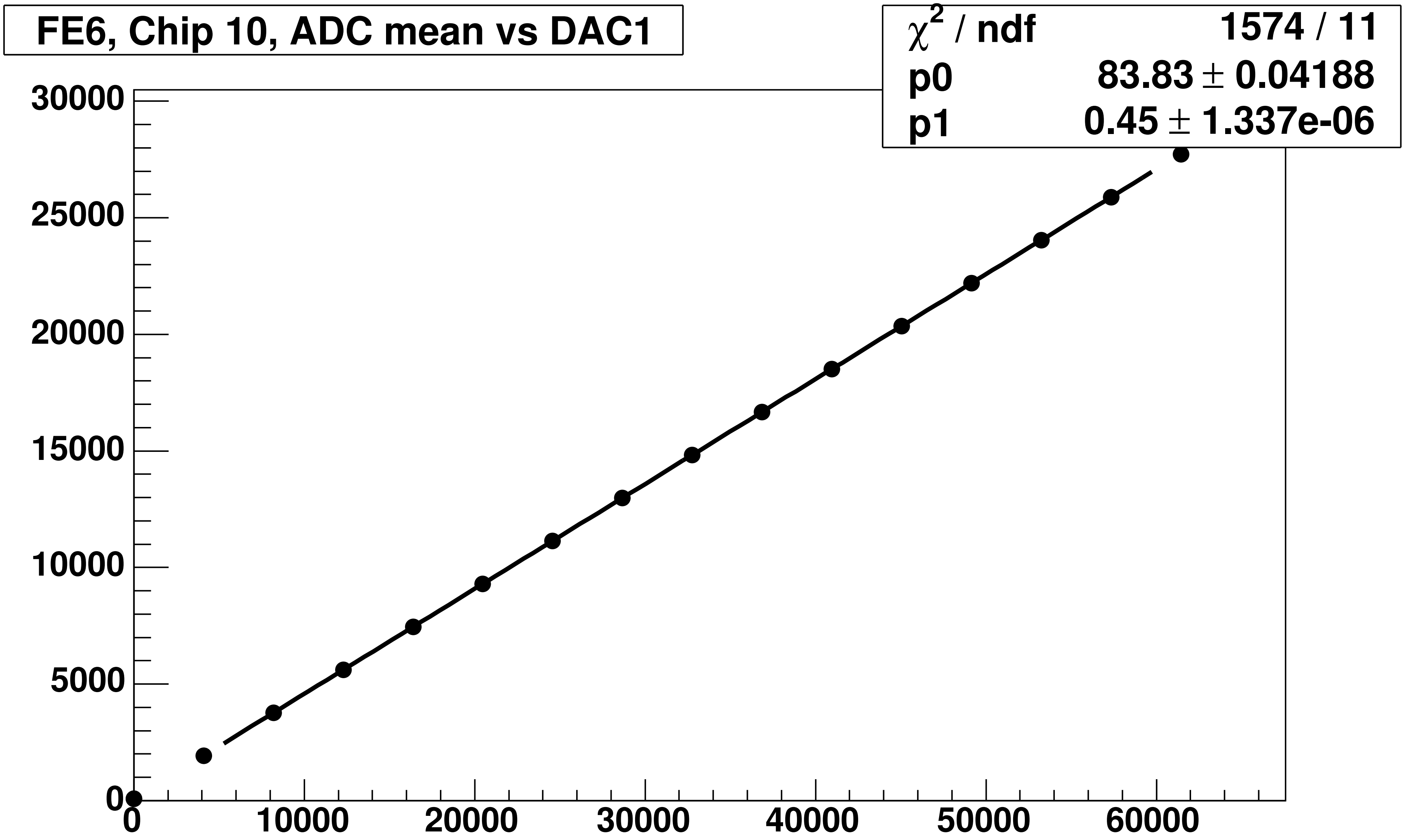


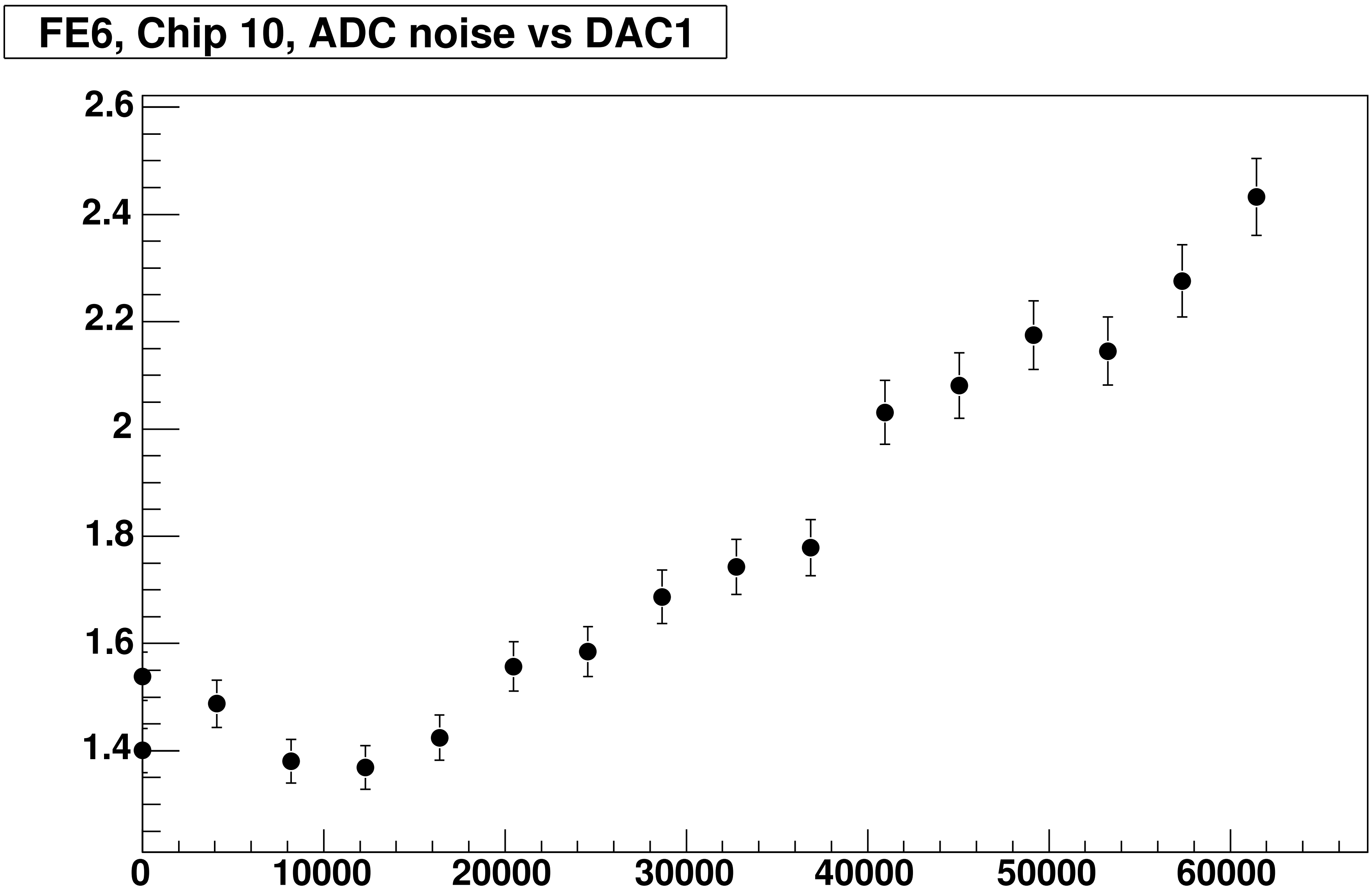
FE6, Chip 10, ADC mean vs DAC0
χ² / ndf 14.81 / 11
p0 81.18 ± 0.04067
p1 7.846e-07 ± 1.12e-06
81.4
81.3
81.2
81.1
81
80.9
0
10000
20000
30000
40000
50000
60000

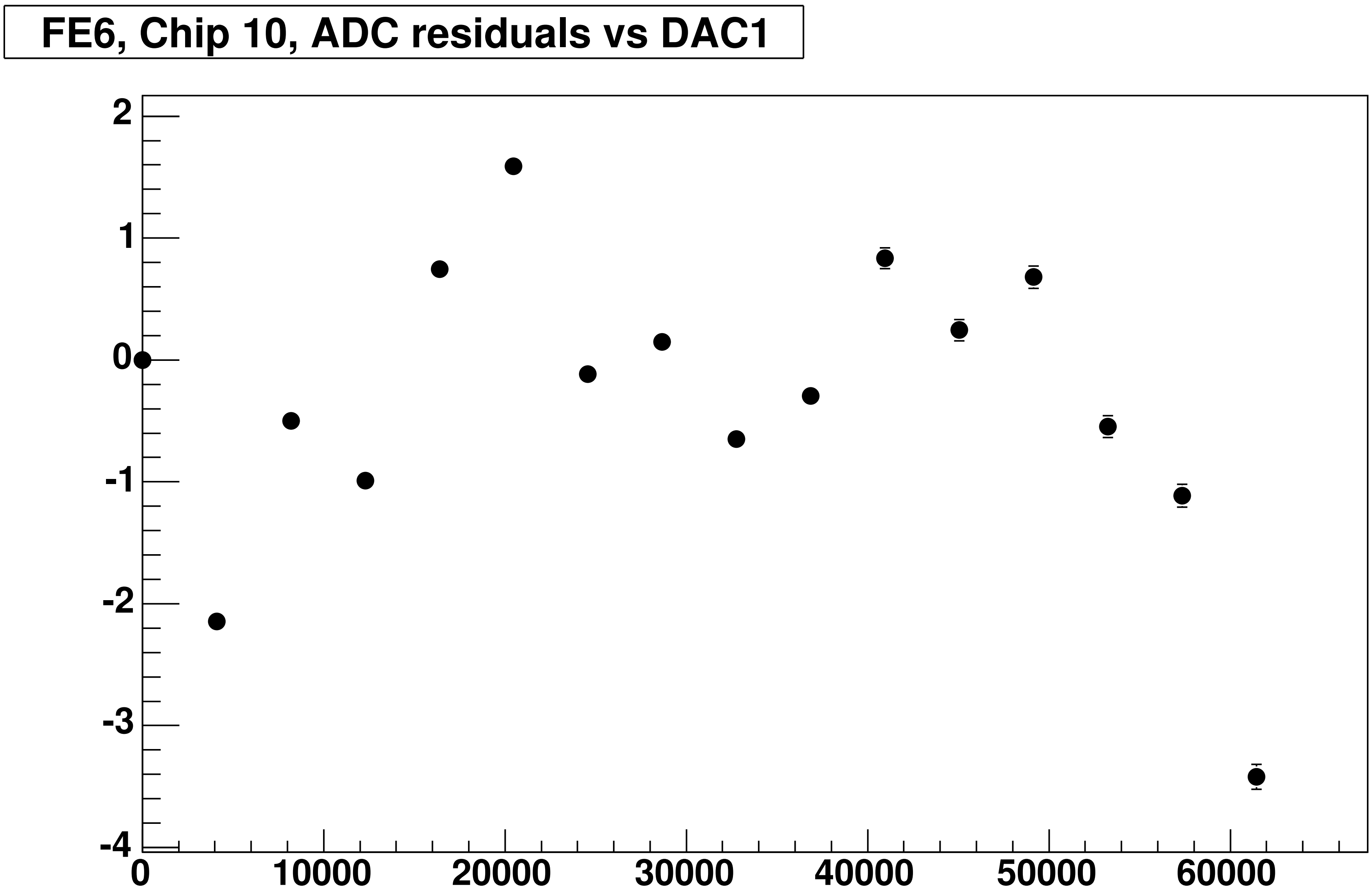

FE6, Chip 10, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

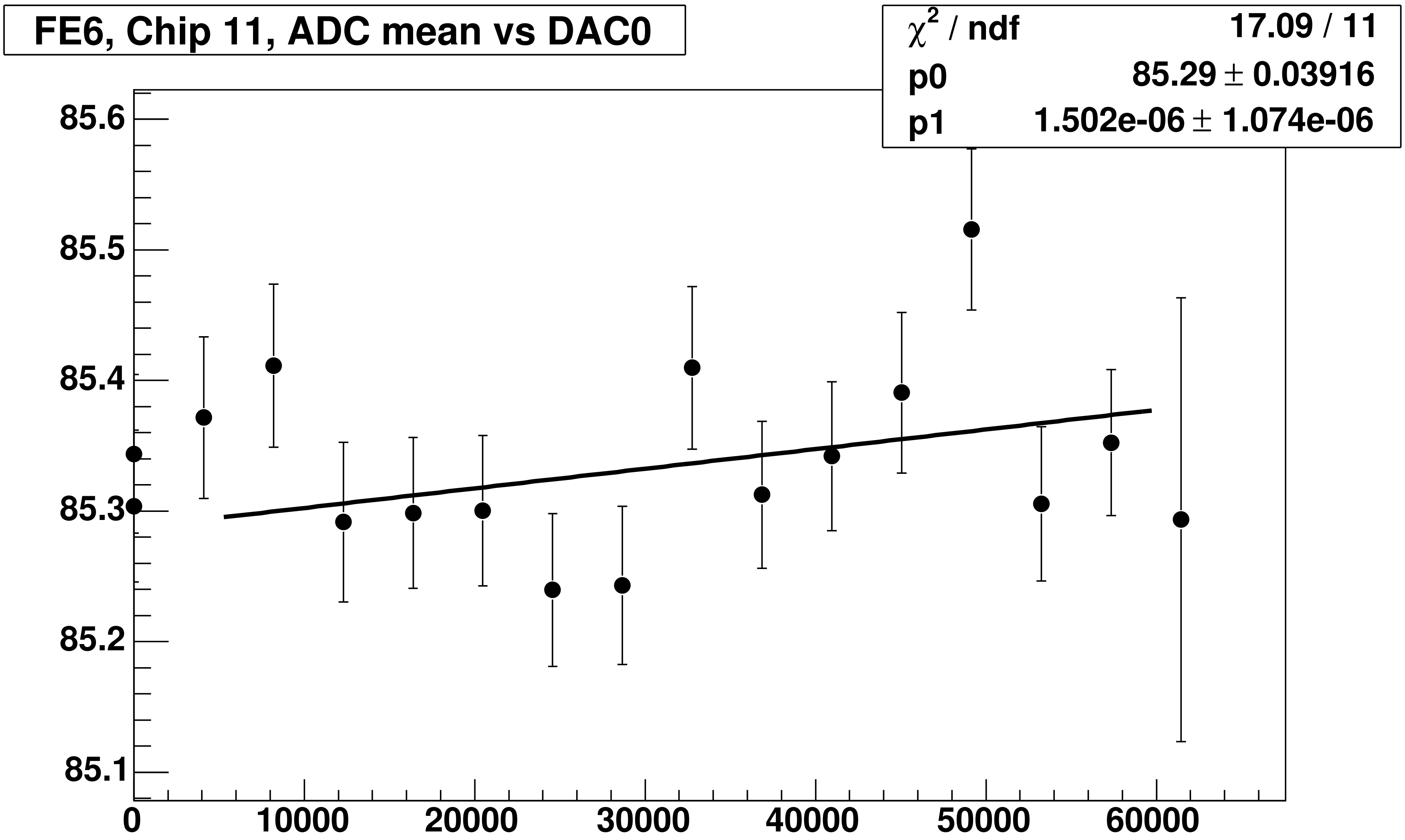


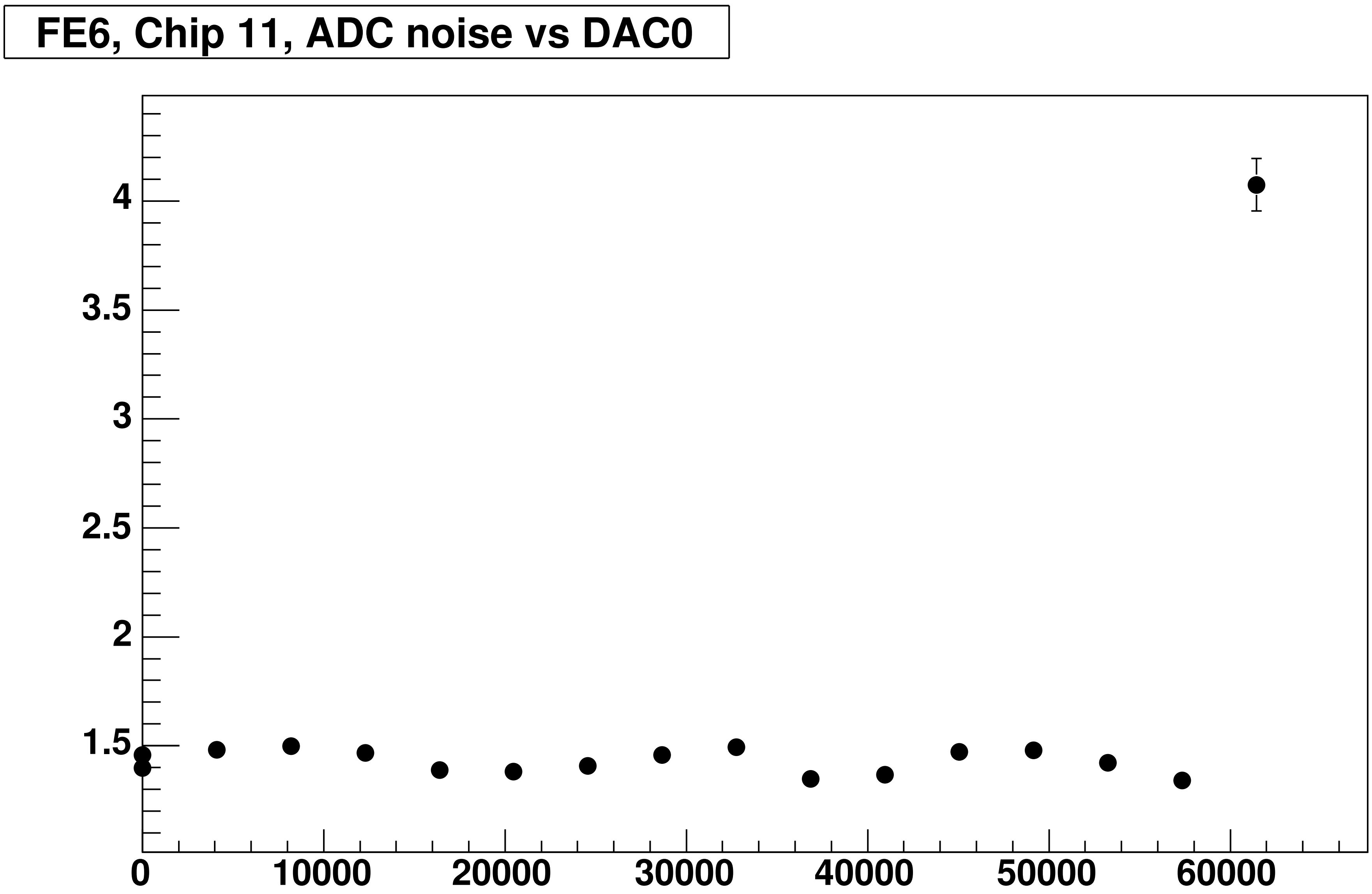
FE6, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

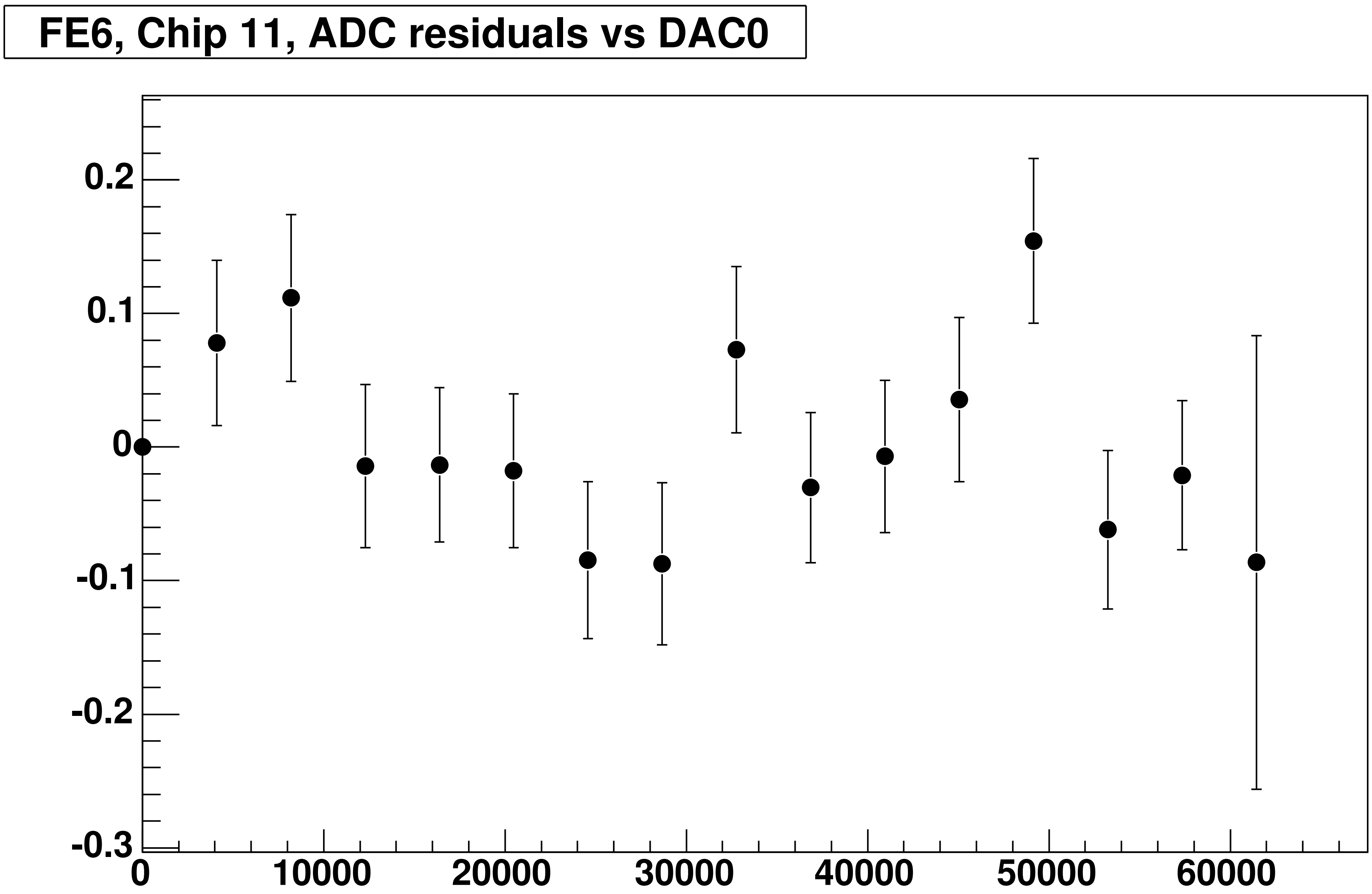

FE6, Chip 10, ADC mean vs DAC1
χ2 / ndf 1574 / 11
p0 83.83 ± 0.04188
p1 0.45 ± 1.337e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

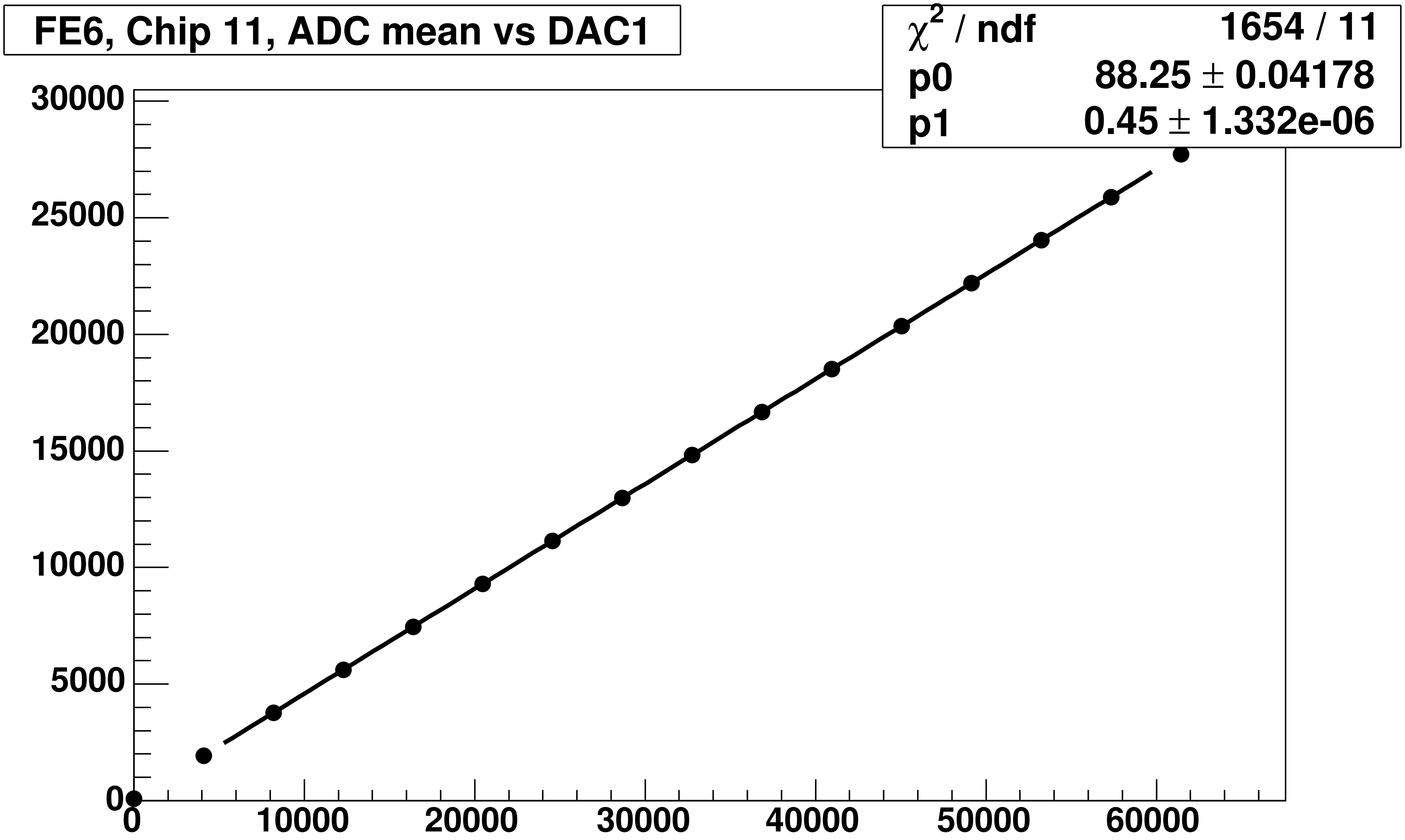

FE6, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

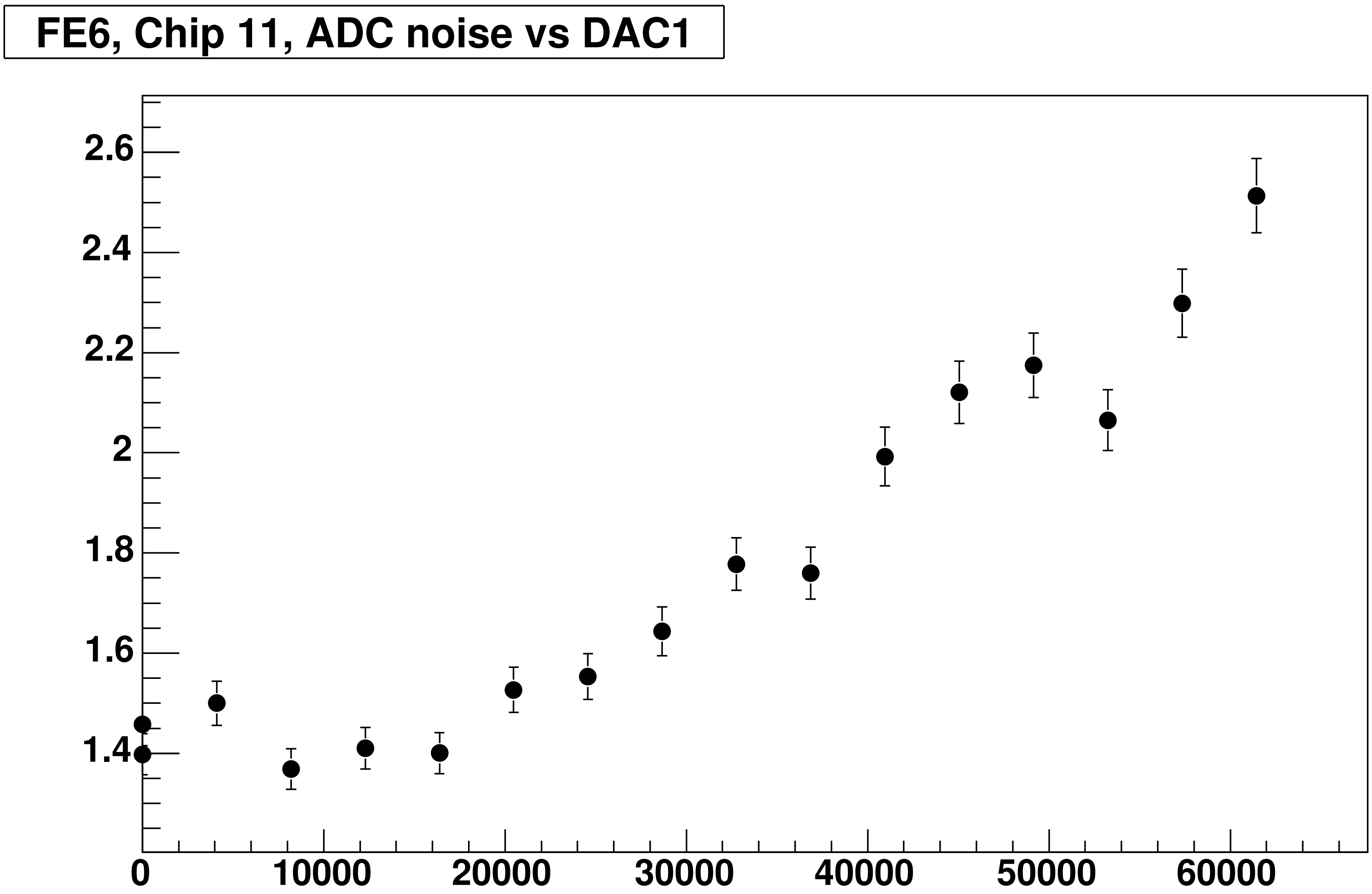

FE6, Chip 11, ADC mean vs DAC0
χ^2 / ndf 17.09 / 11
p0 85.29 ± 0.03916
p1 1.502e-06 ± 1.074e-06
85.6
85.5
85.4
85.3
85.2
85.1
0
10000
20000
30000
40000
50000
60000


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

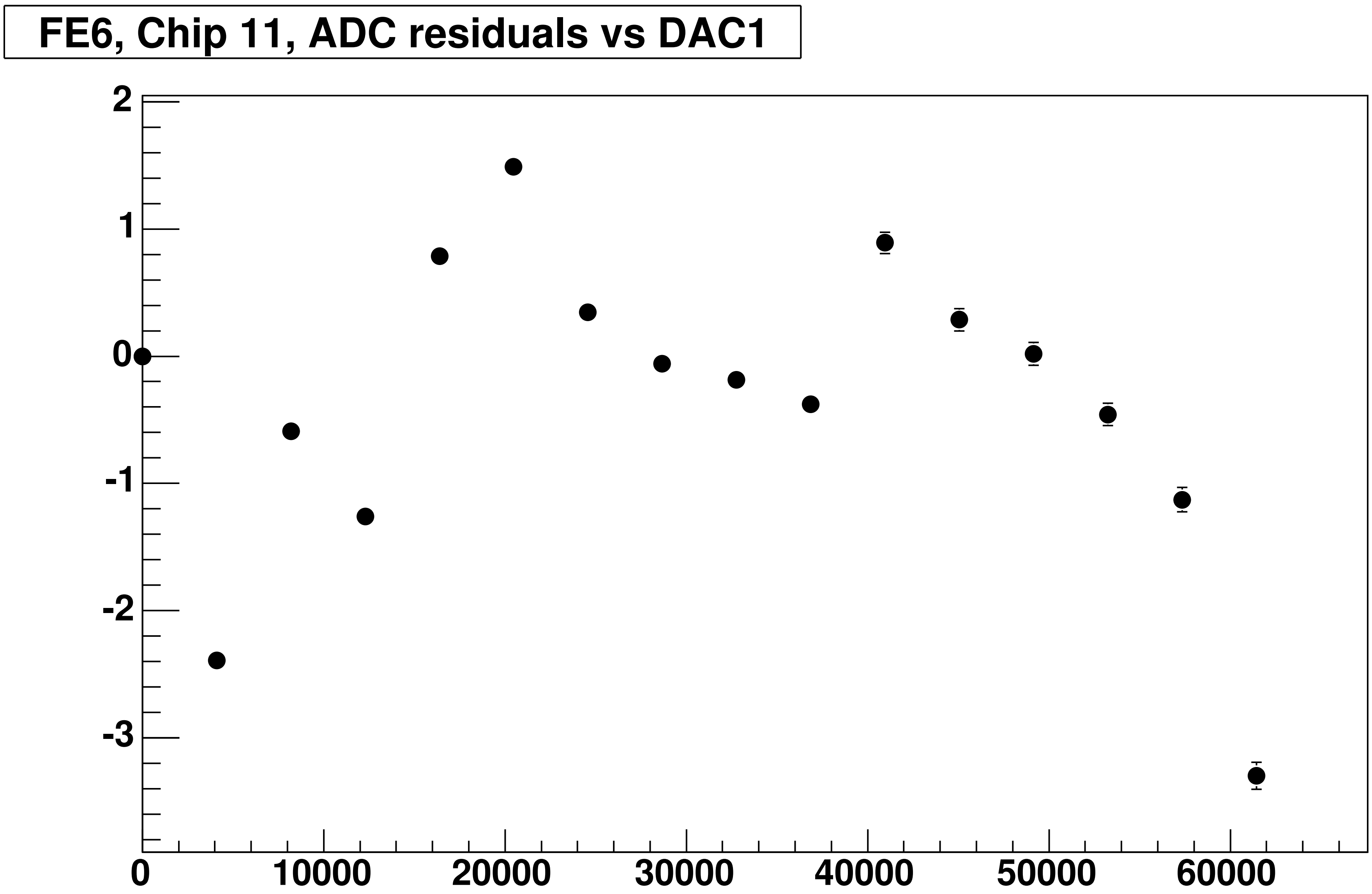

FE6, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

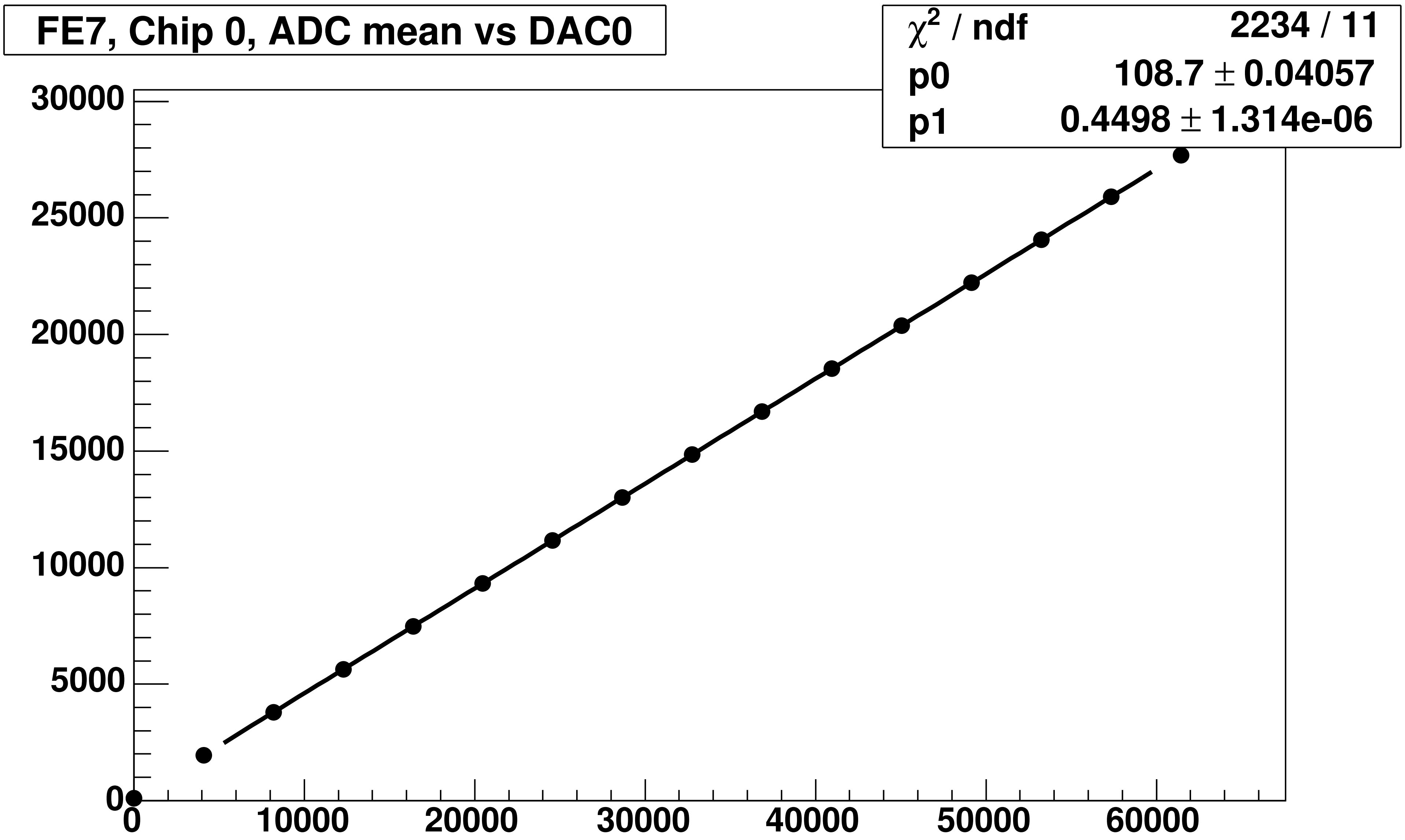


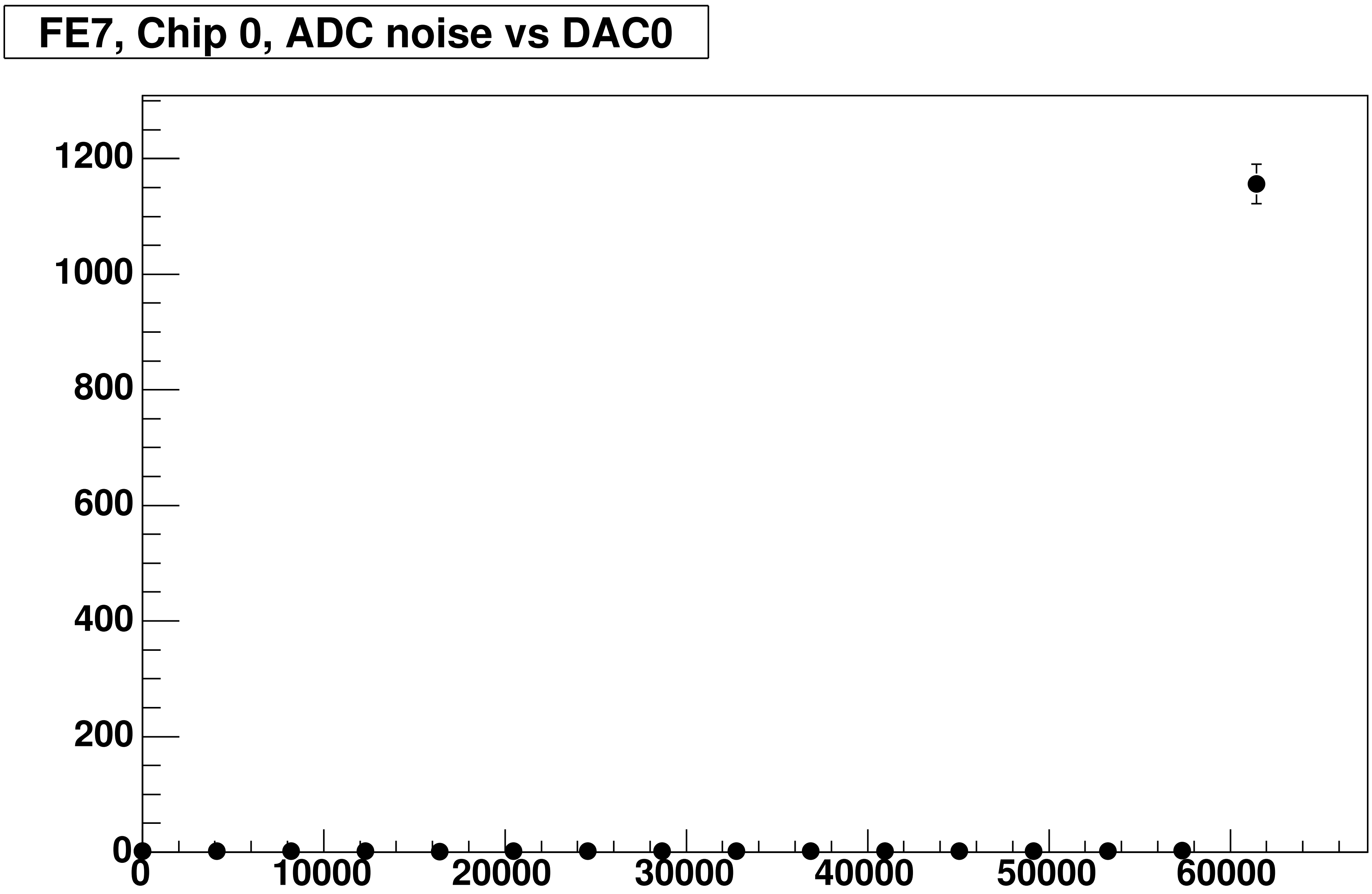
FE6, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1654 / 11
p0 88.25 ± 0.04178
p1 0.45 ± 1.332e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

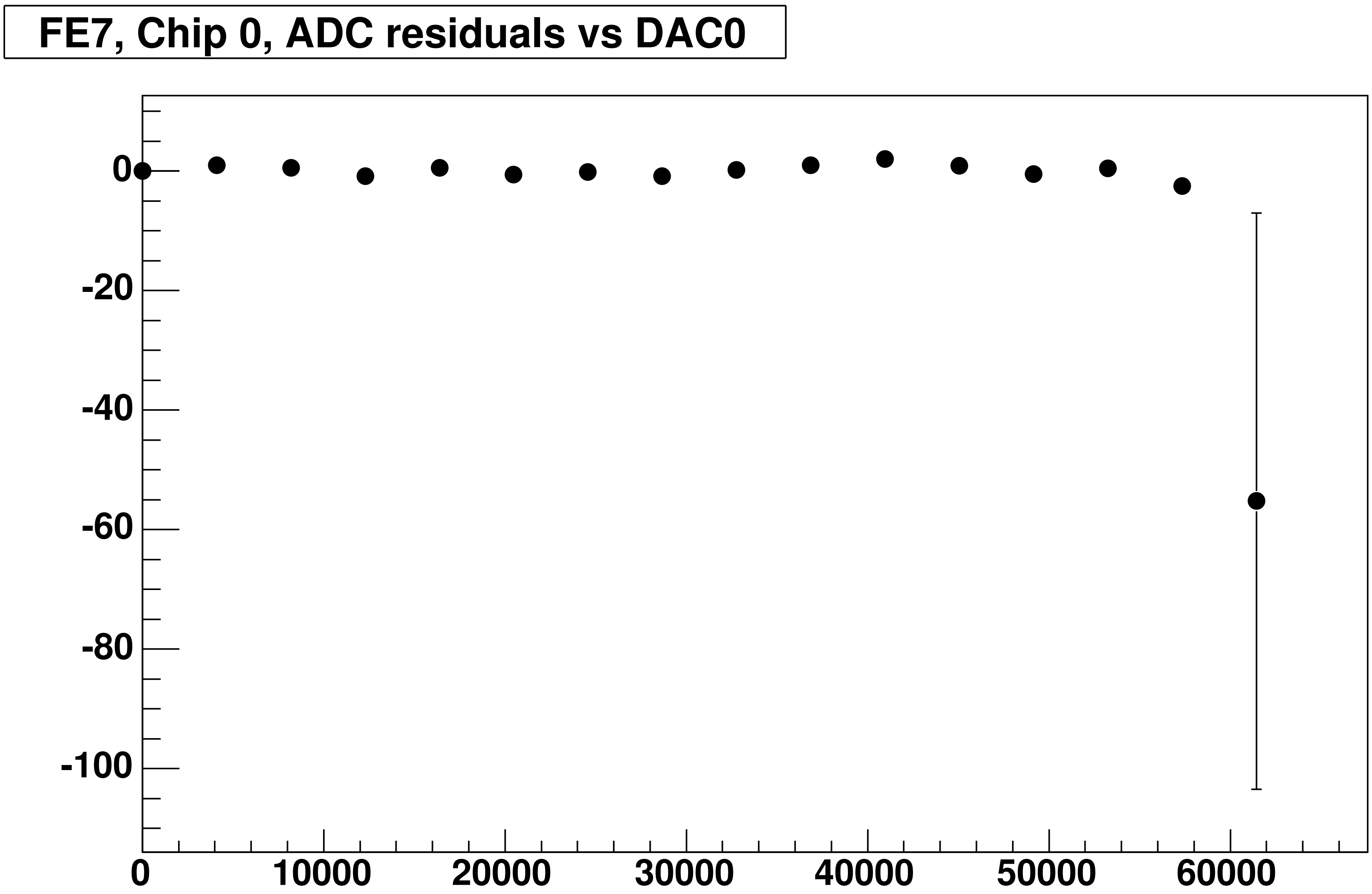


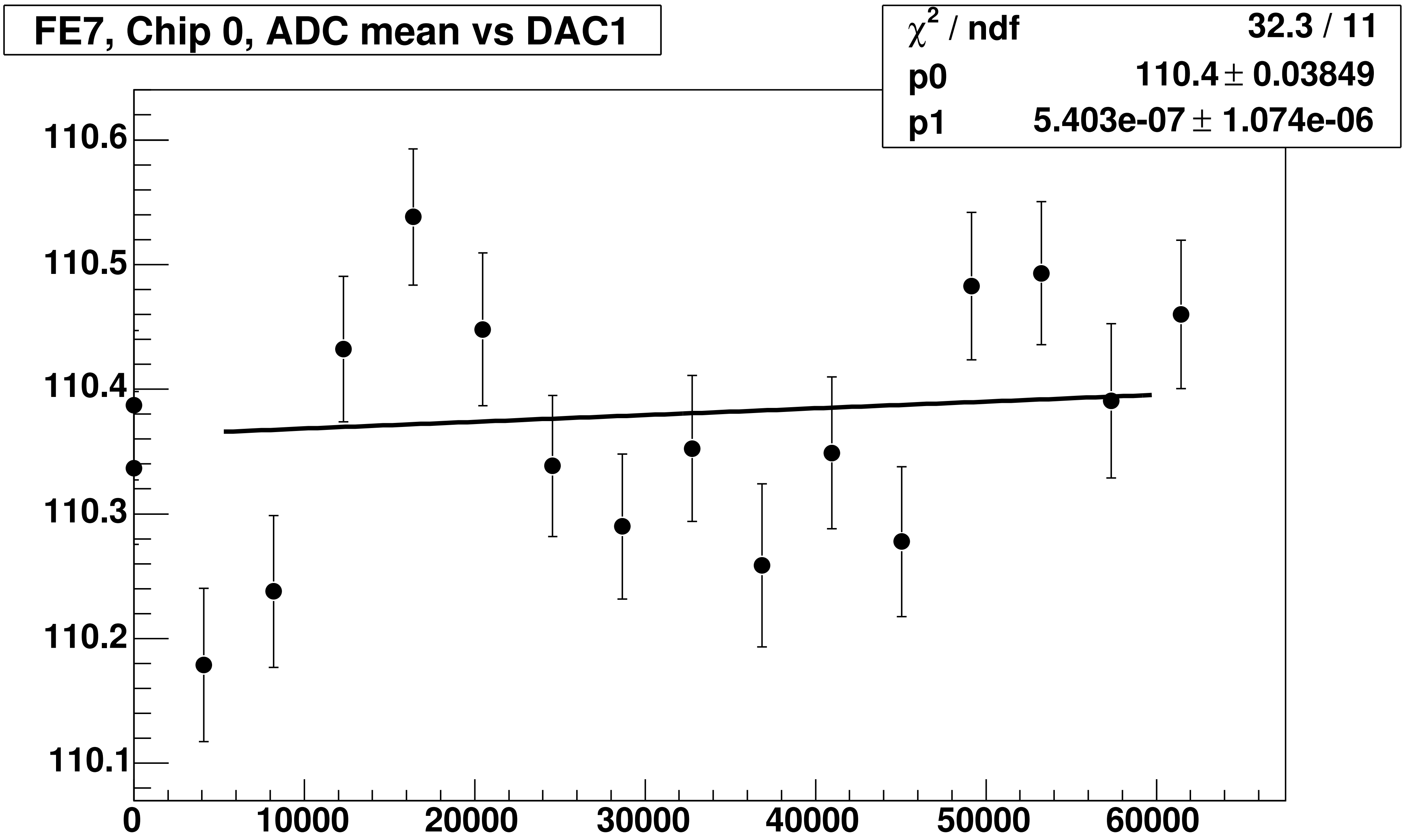
FE6, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

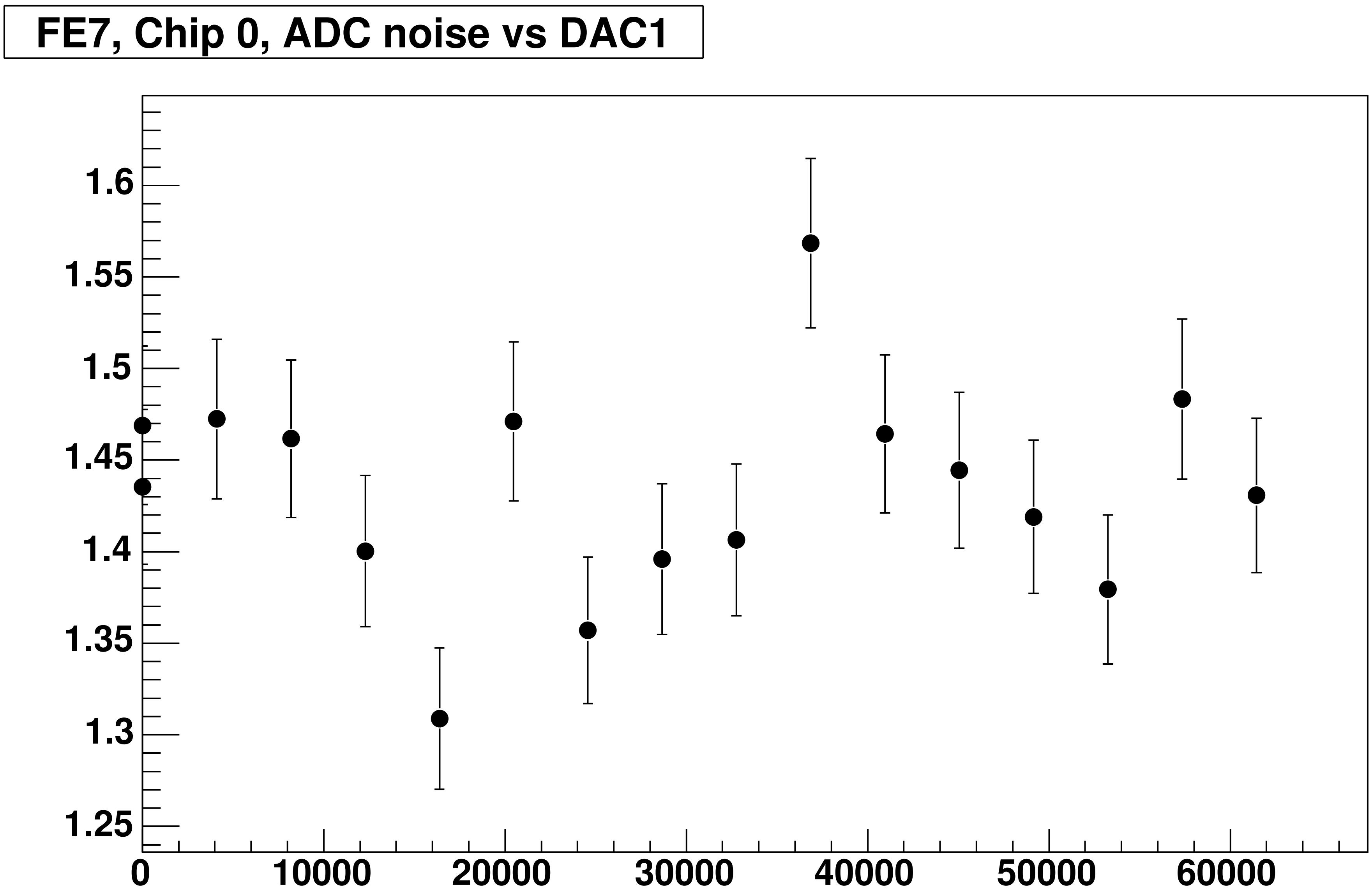

FE6, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
0
10000
20000
30000
40000
50000
60000

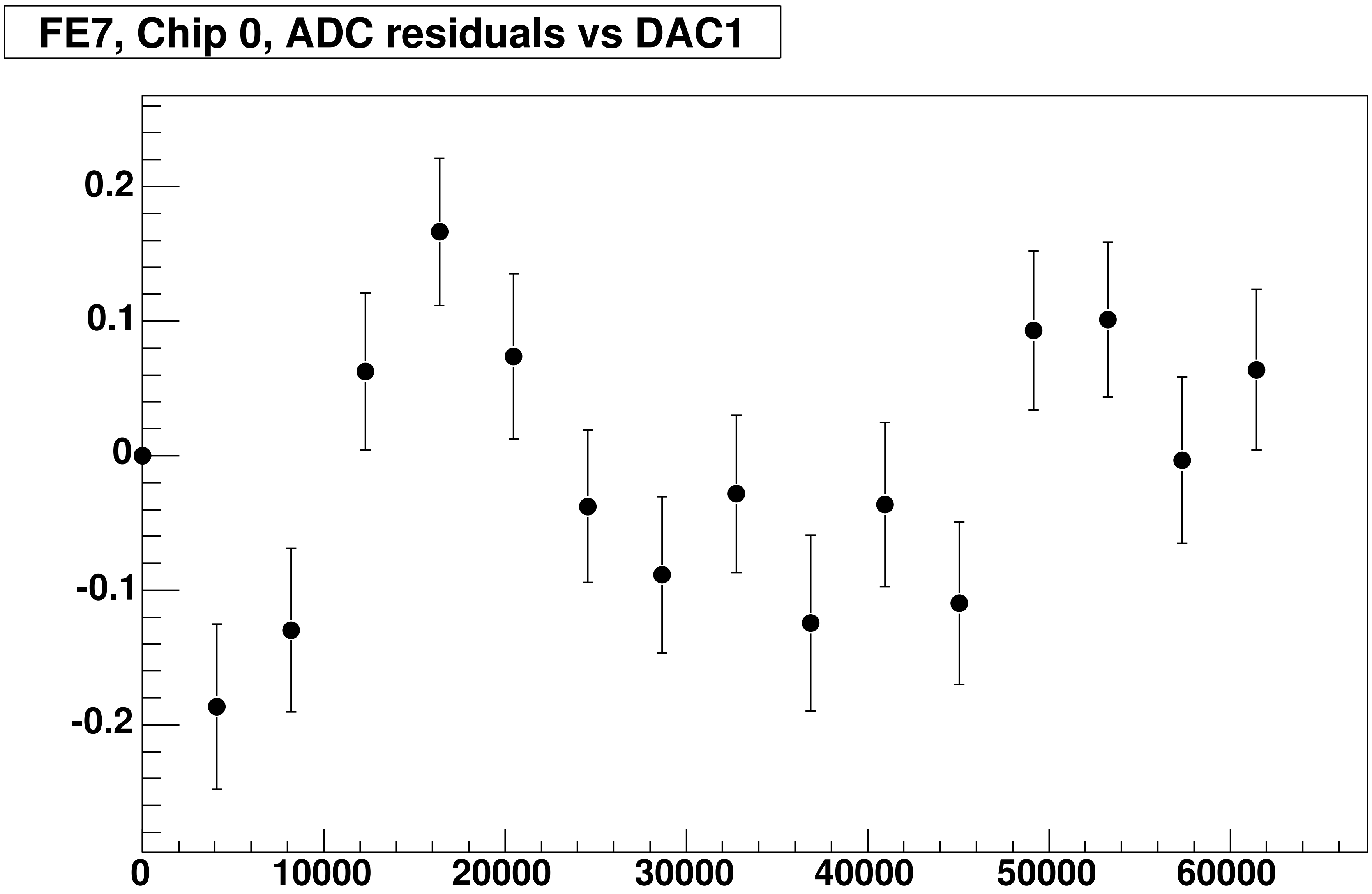

FE7, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2234 / 11
p0 108.7 ± 0.04057
p1 0.4498 ± 1.314e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

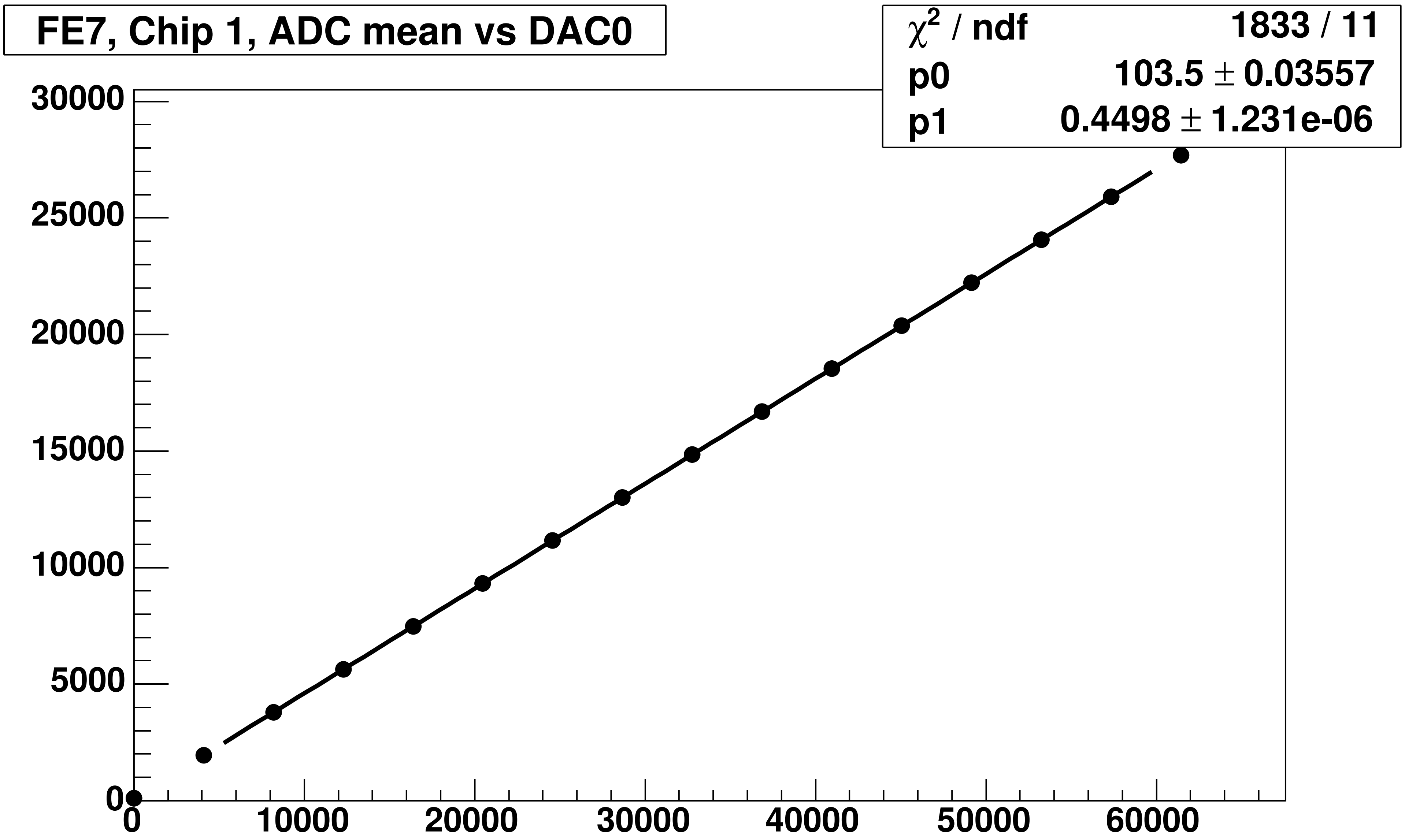

FE7, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE7, Chip 0, ADC mean vs DAC1
χ^2 / ndf 32.3 / 11
p0 110.4 ± 0.03849
p1 5.403e-07 ± 1.074e-06
110.6
110.5
110.4
110.3
110.2
110.1
0
10000
20000
30000
40000
50000
60000

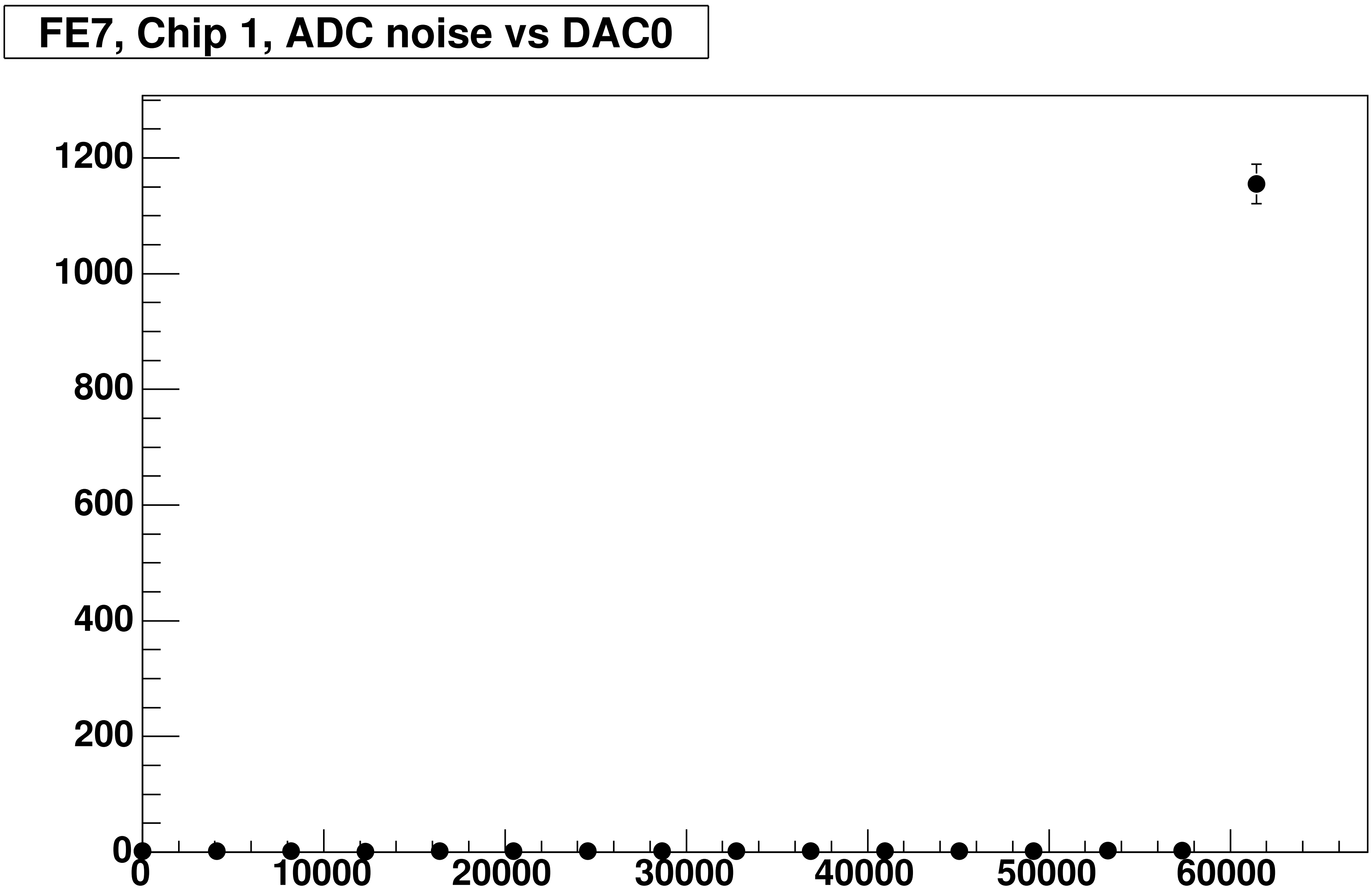

FE7, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000

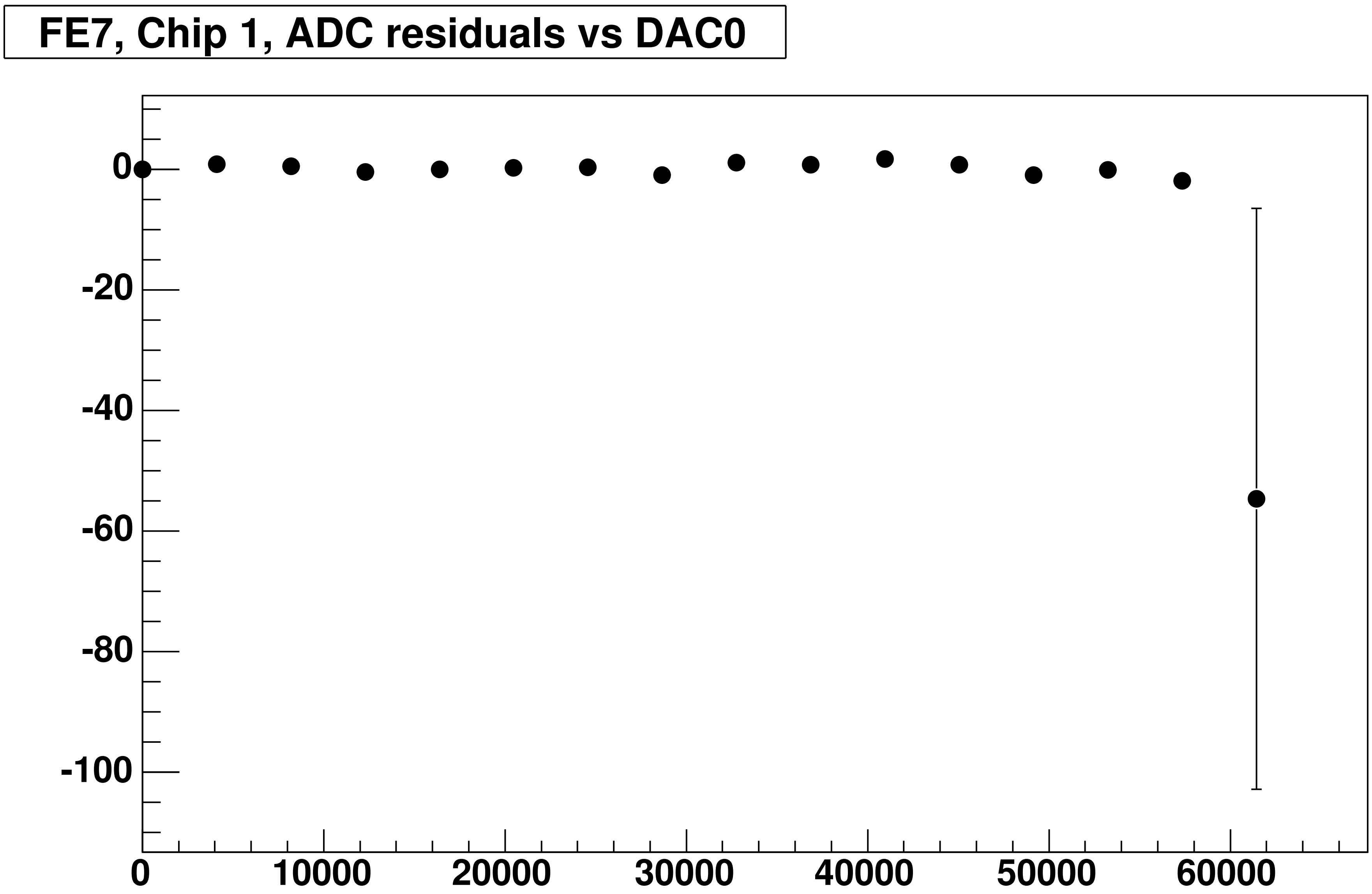


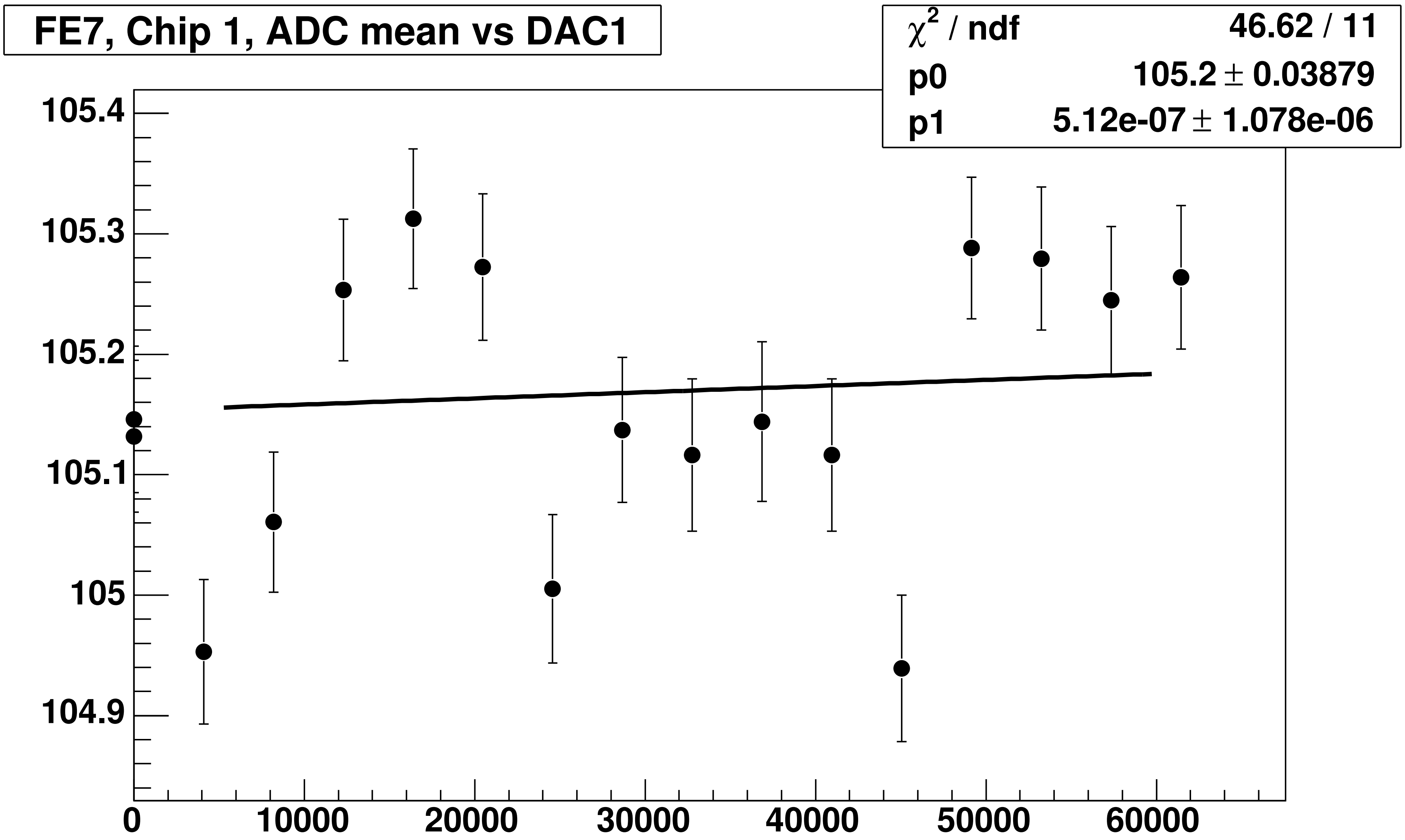
FE7, Chip 0, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

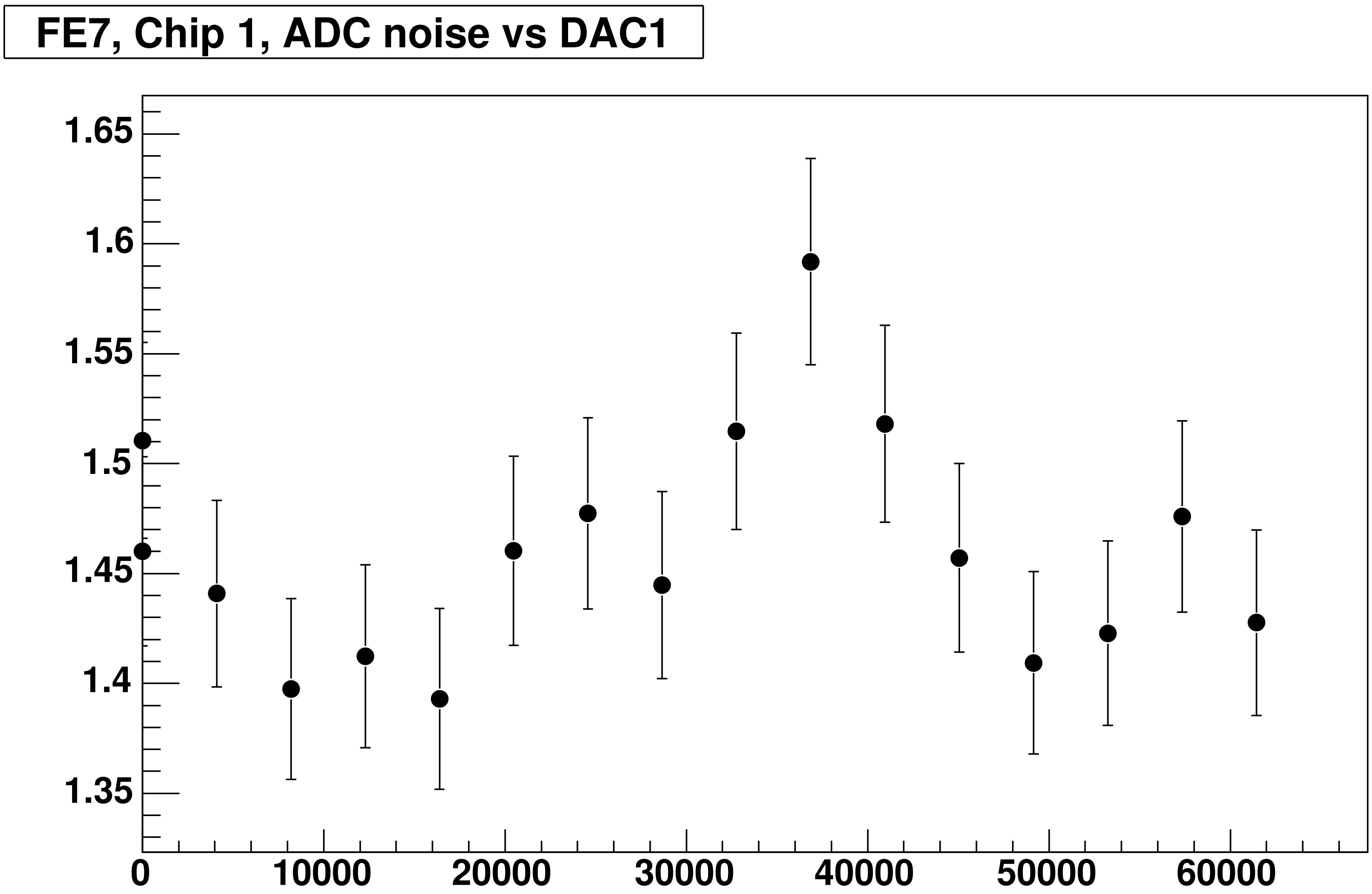


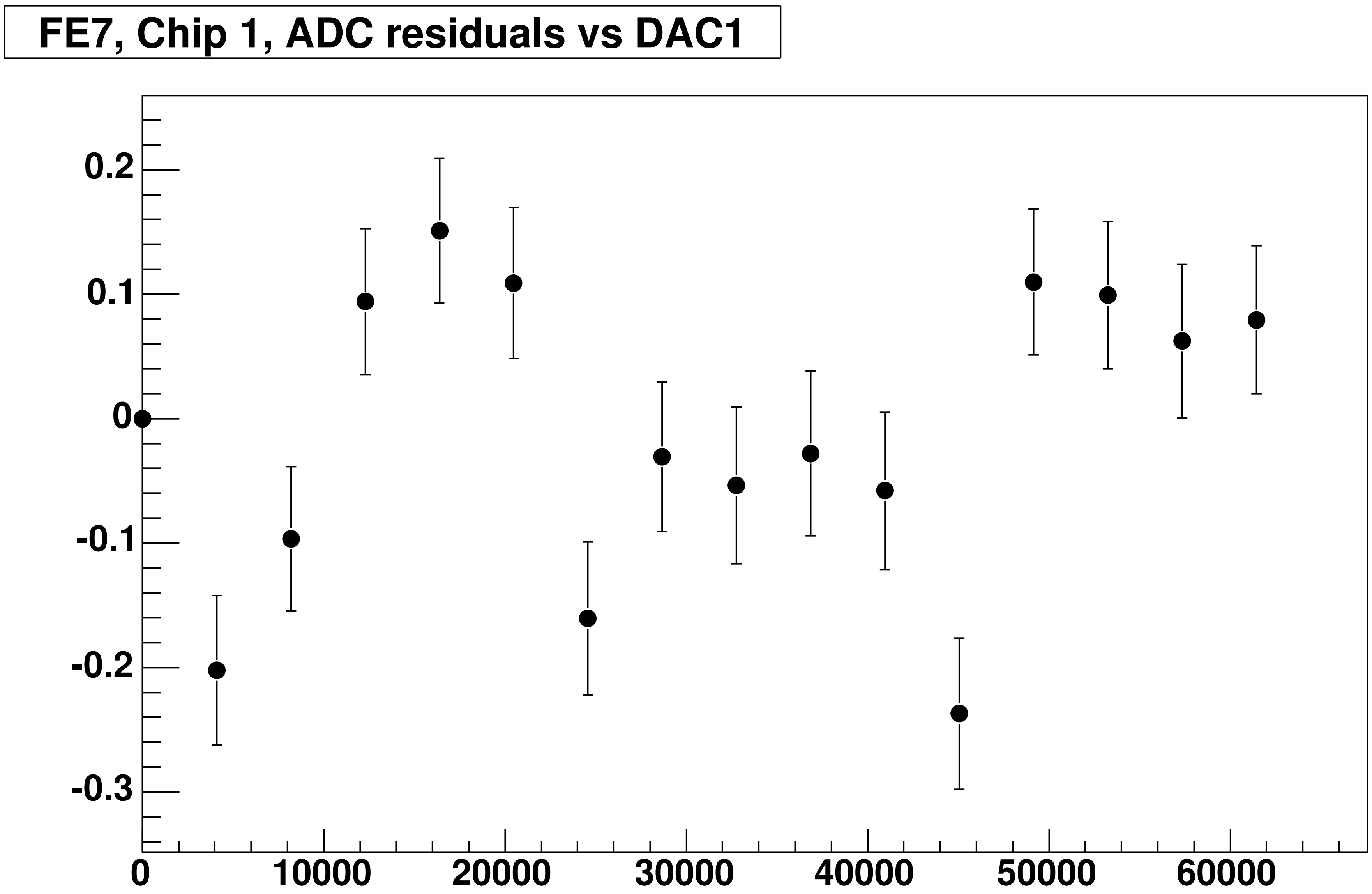
FE7, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1833 / 11
p0 103.5 ± 0.03557
p1 0.4498 ± 1.231e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

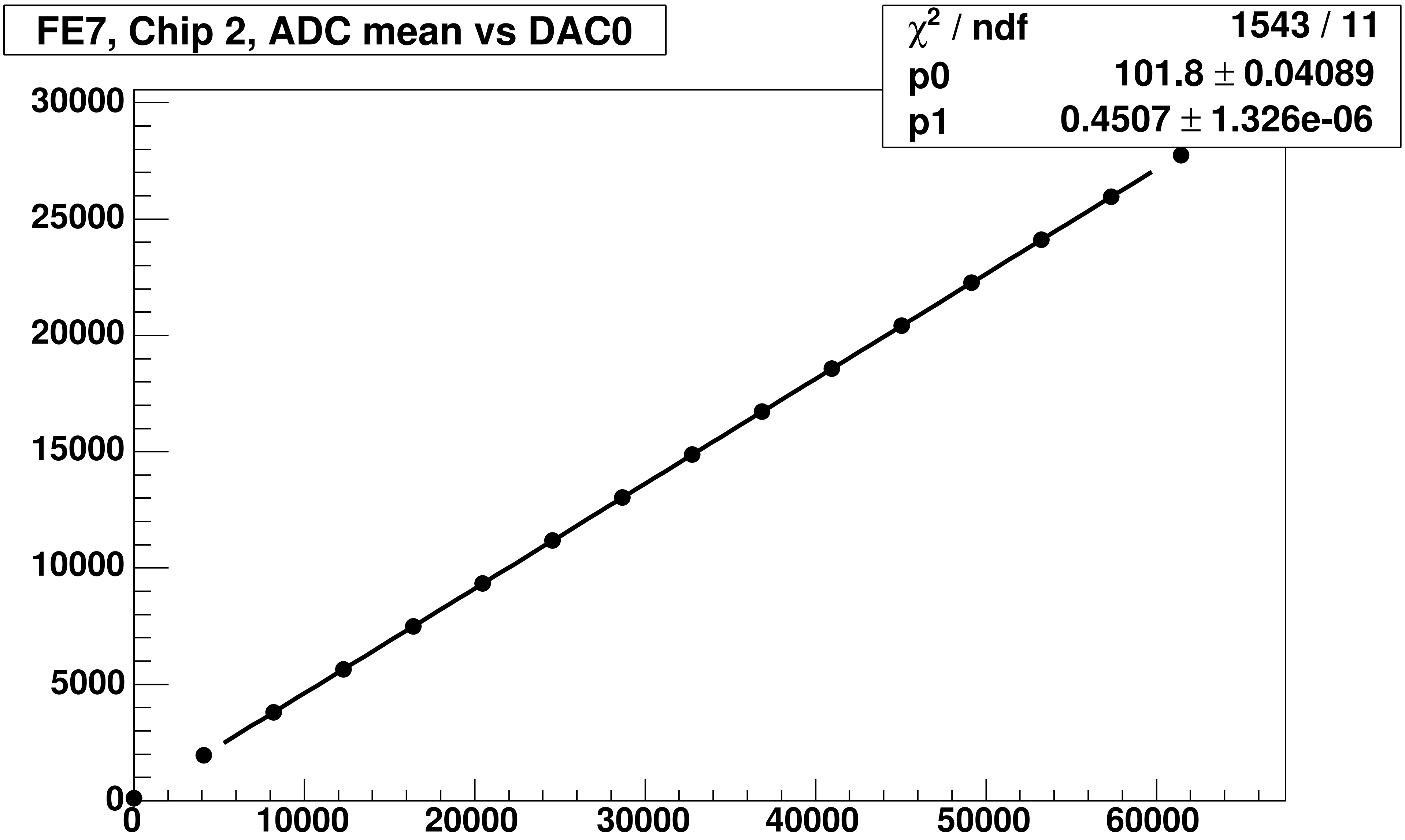

FE7, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

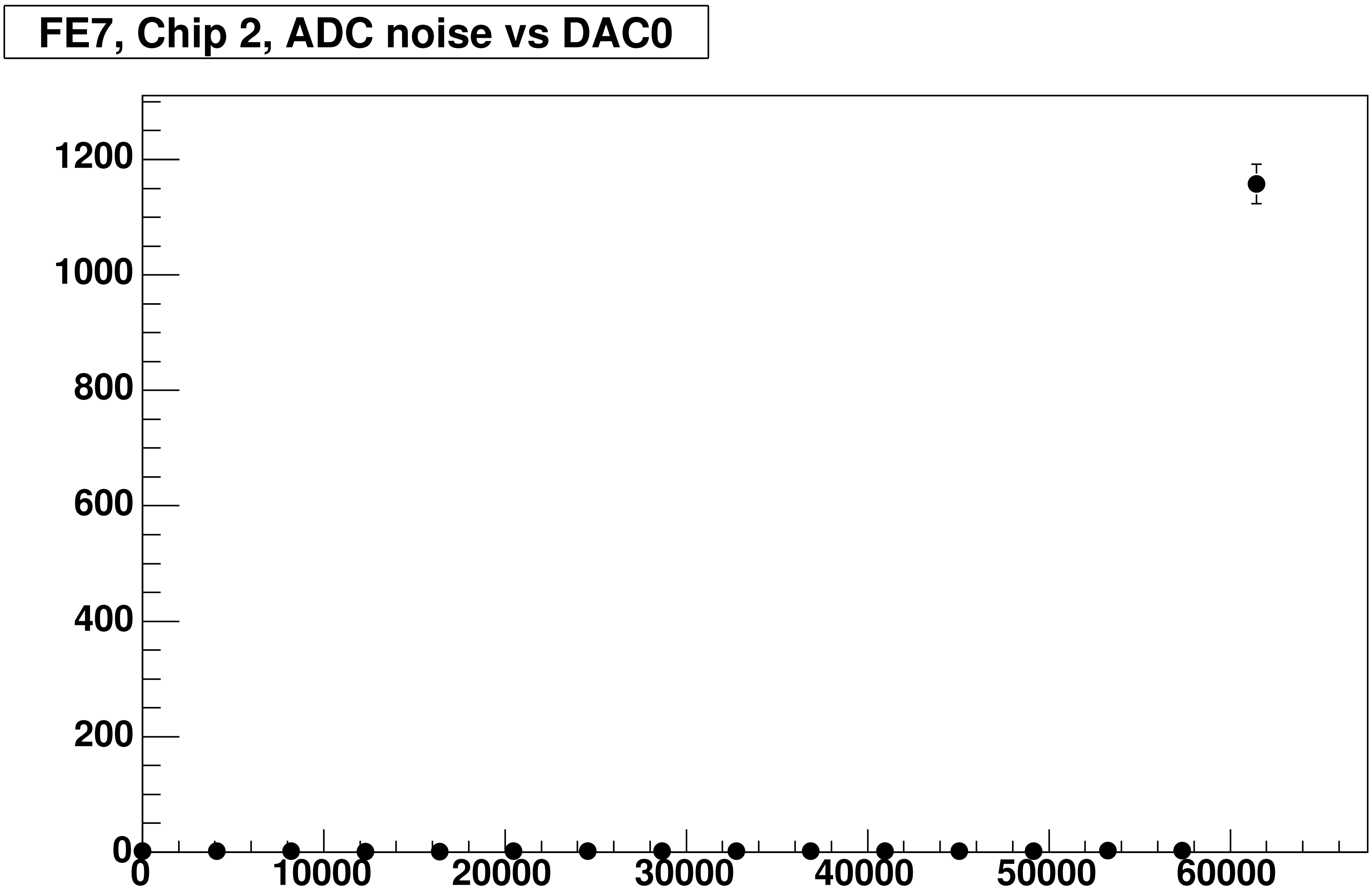

FE7, Chip 1, ADC mean vs DAC1
χ^2 / ndf 46.62 / 11
p0 105.2 ± 0.03879
p1 5.12e-07 ± 1.078e-06
105.4
105.3
105.2
105.1
105
104.9
0
10000
20000
30000
40000
50000
60000

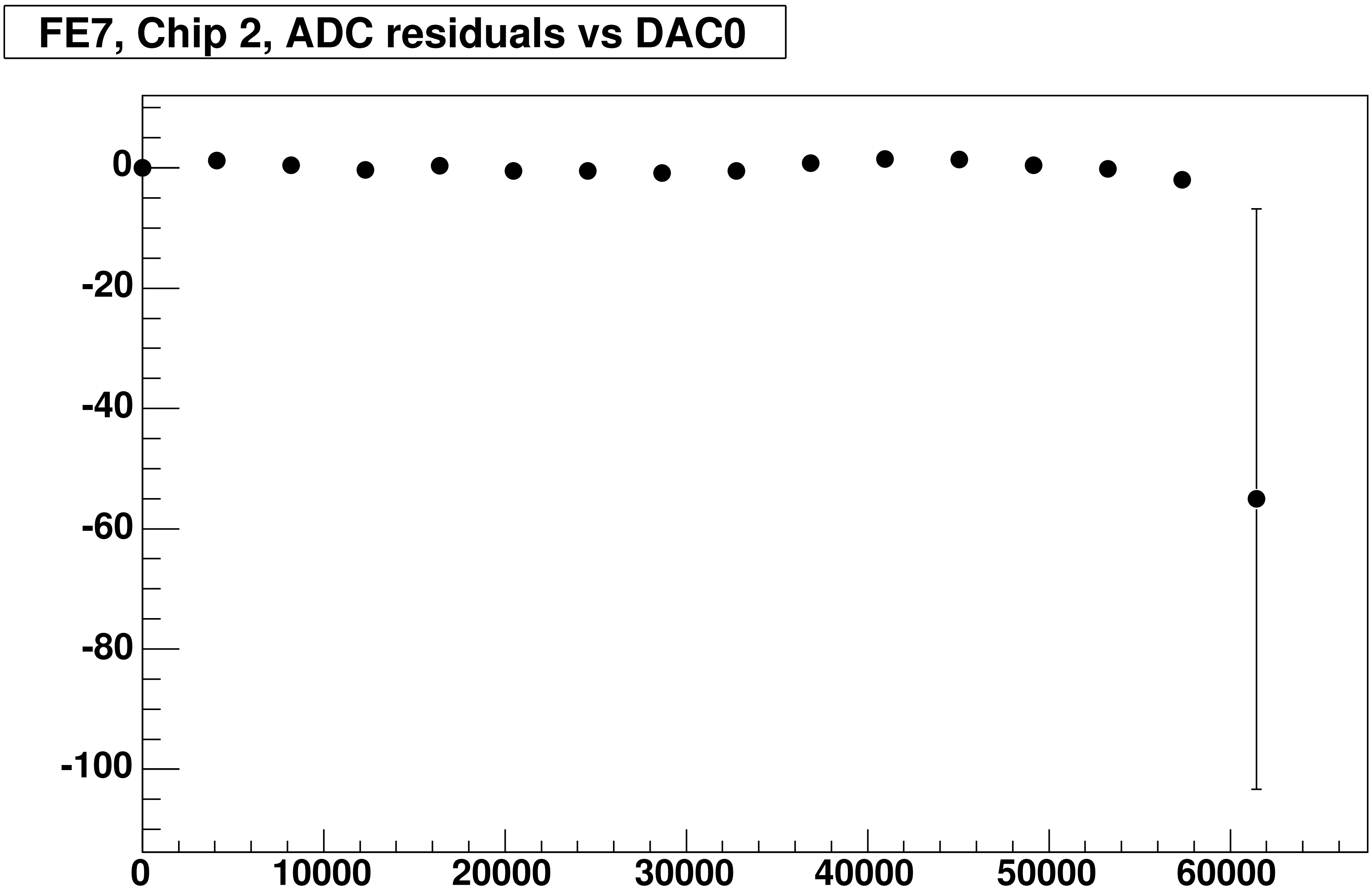

FE7, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

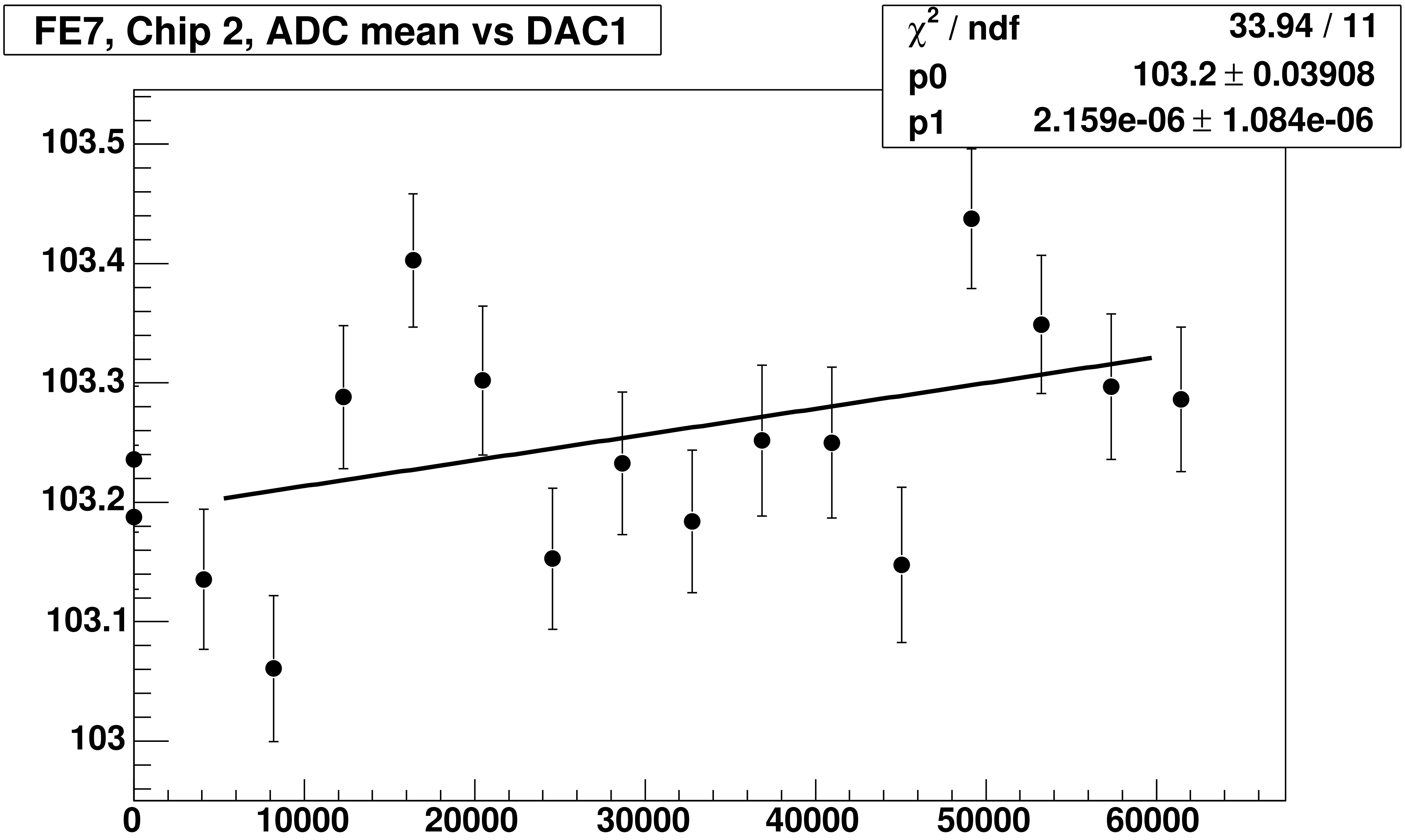

FE7, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



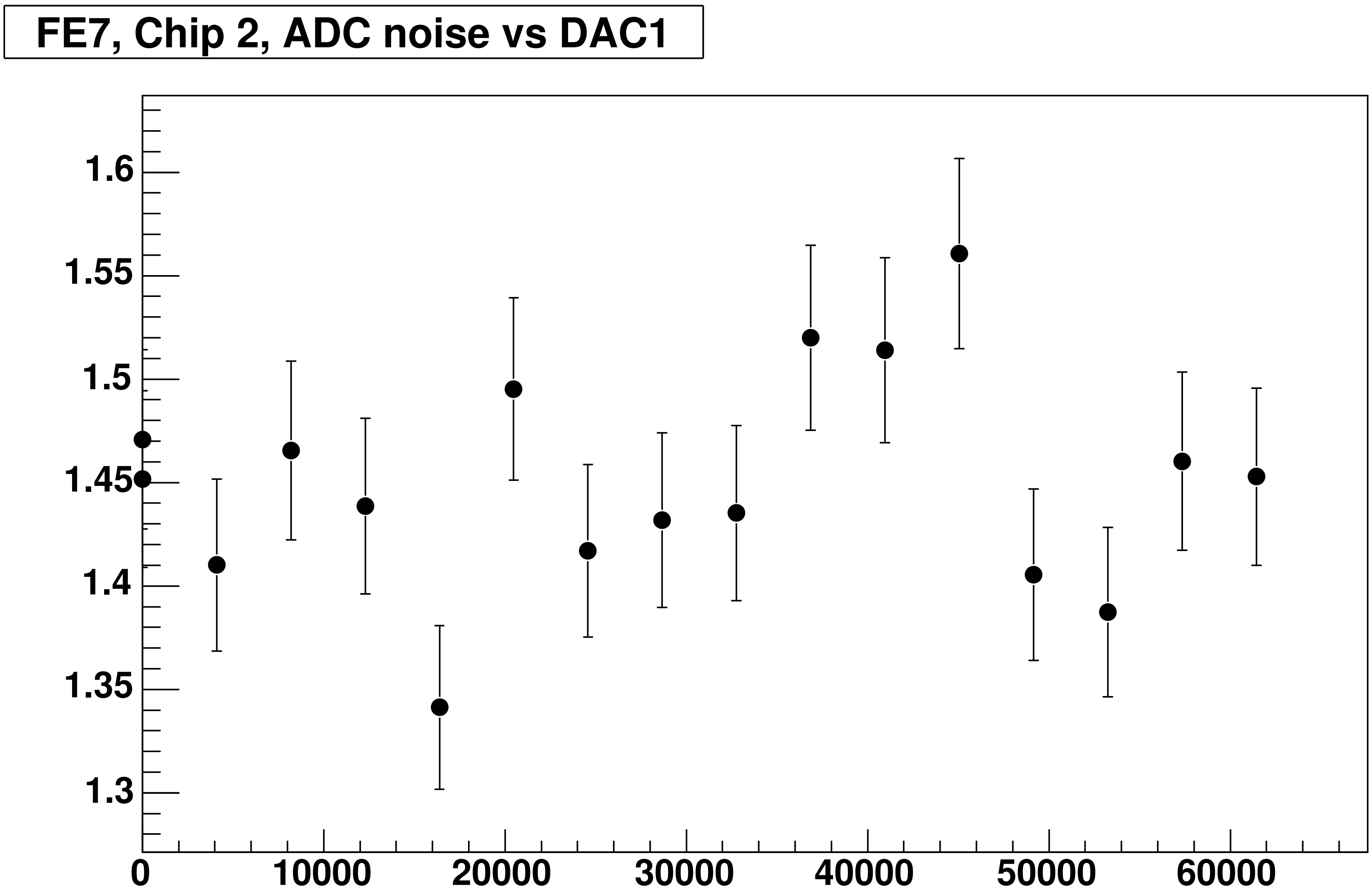
FE7, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1543 / 11
p0 101.8 ± 0.04089
p1 0.4507 ± 1.326e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

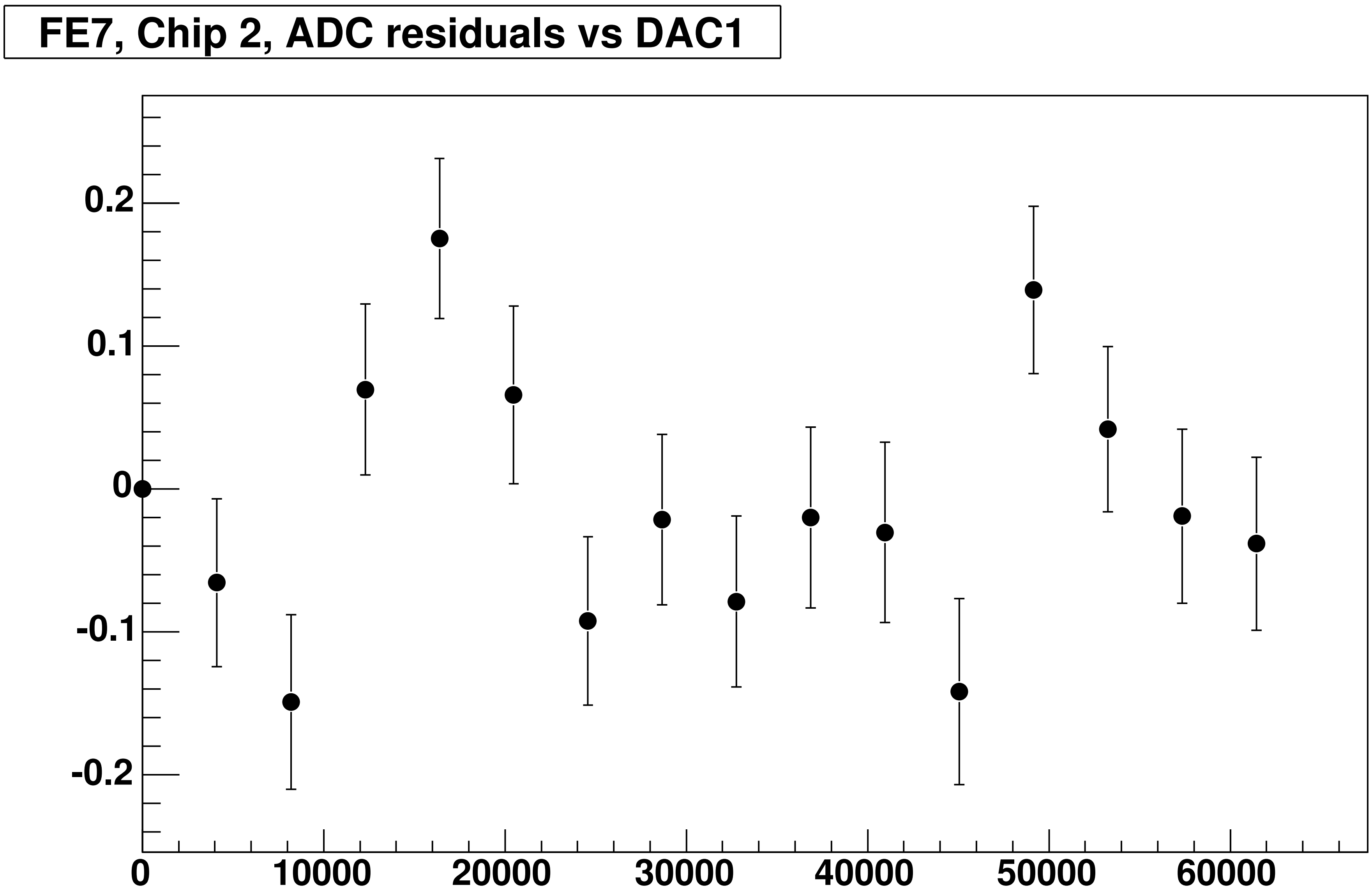

FE7, Chip 2, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

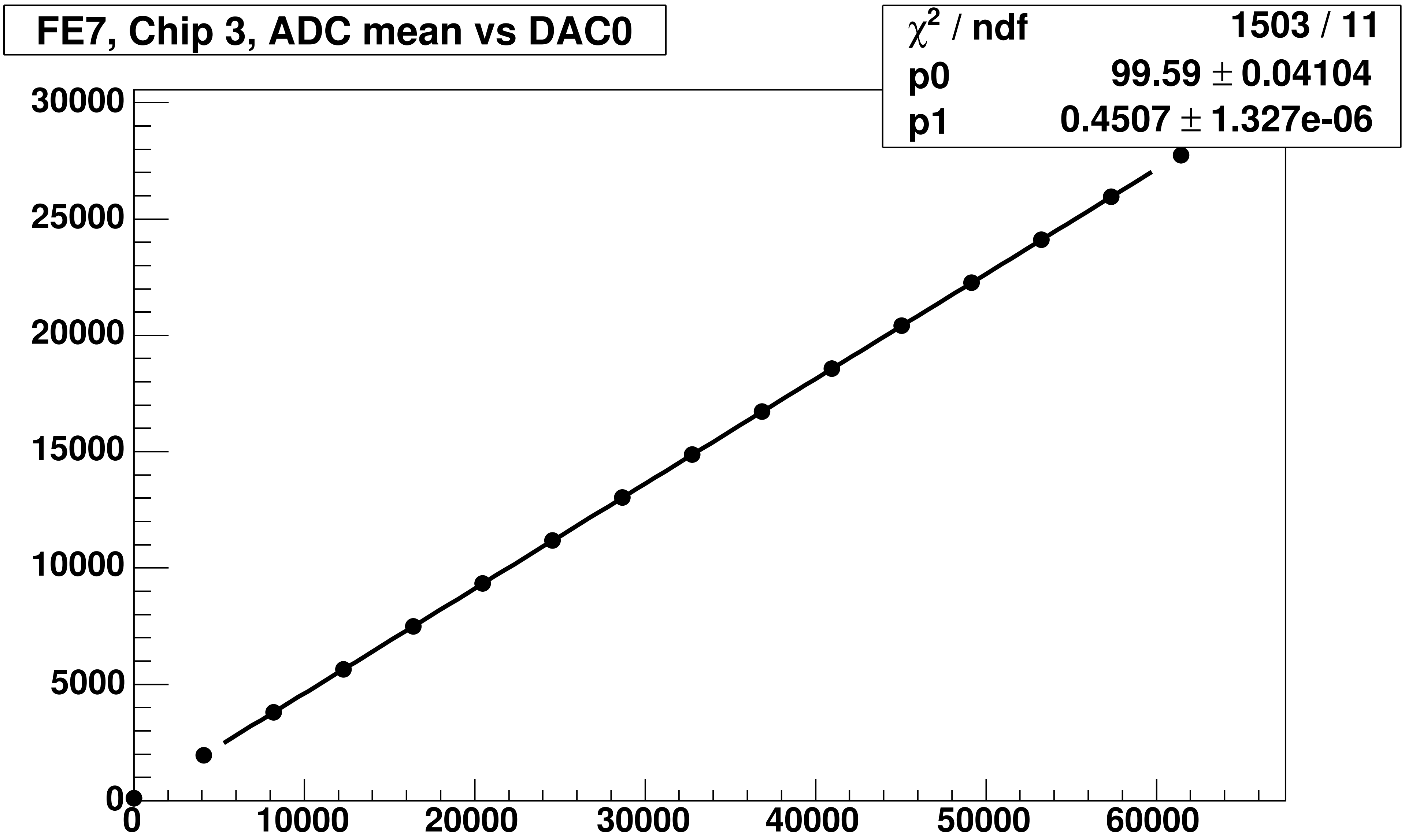

FE7, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

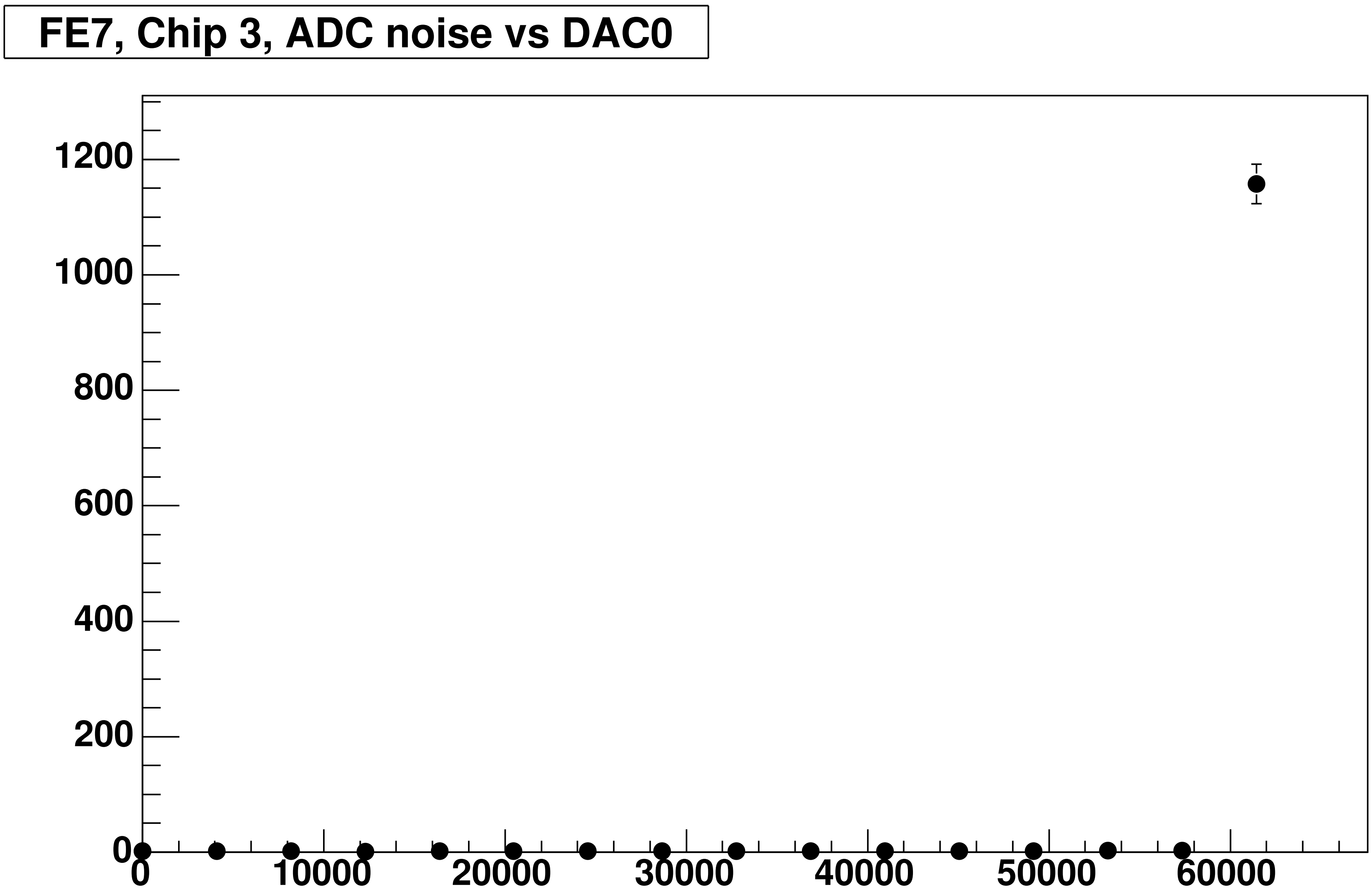


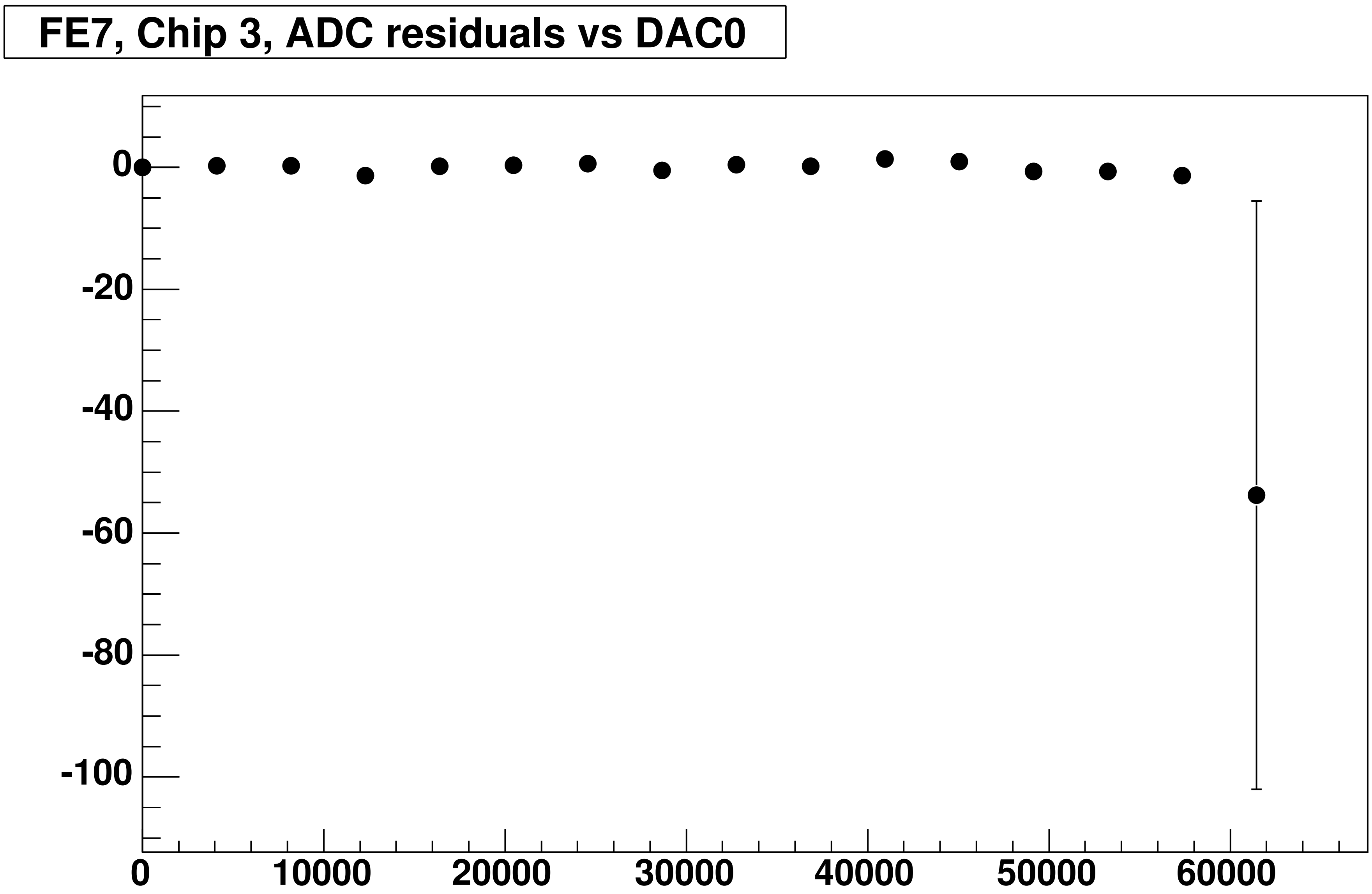
FE7, Chip 2, ADC mean vs DAC1
χ^2 / ndf 33.94 / 11
p0 103.2 ± 0.03908
p1 2.159e-06 ± 1.084e-06
103.5
103.4
103.3
103.2
103.1
103
0
10000
20000
30000
40000
50000
60000

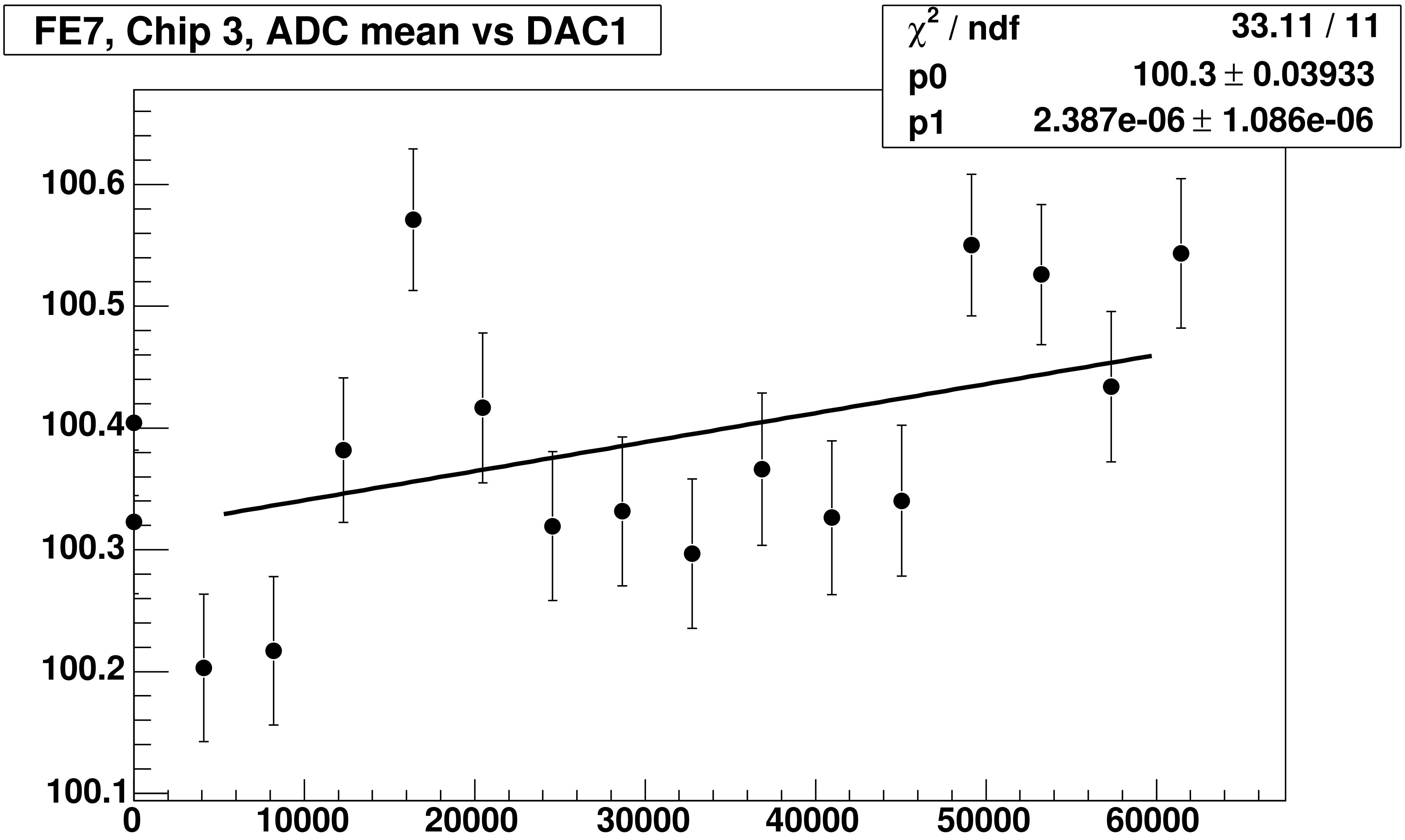

FE7, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


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

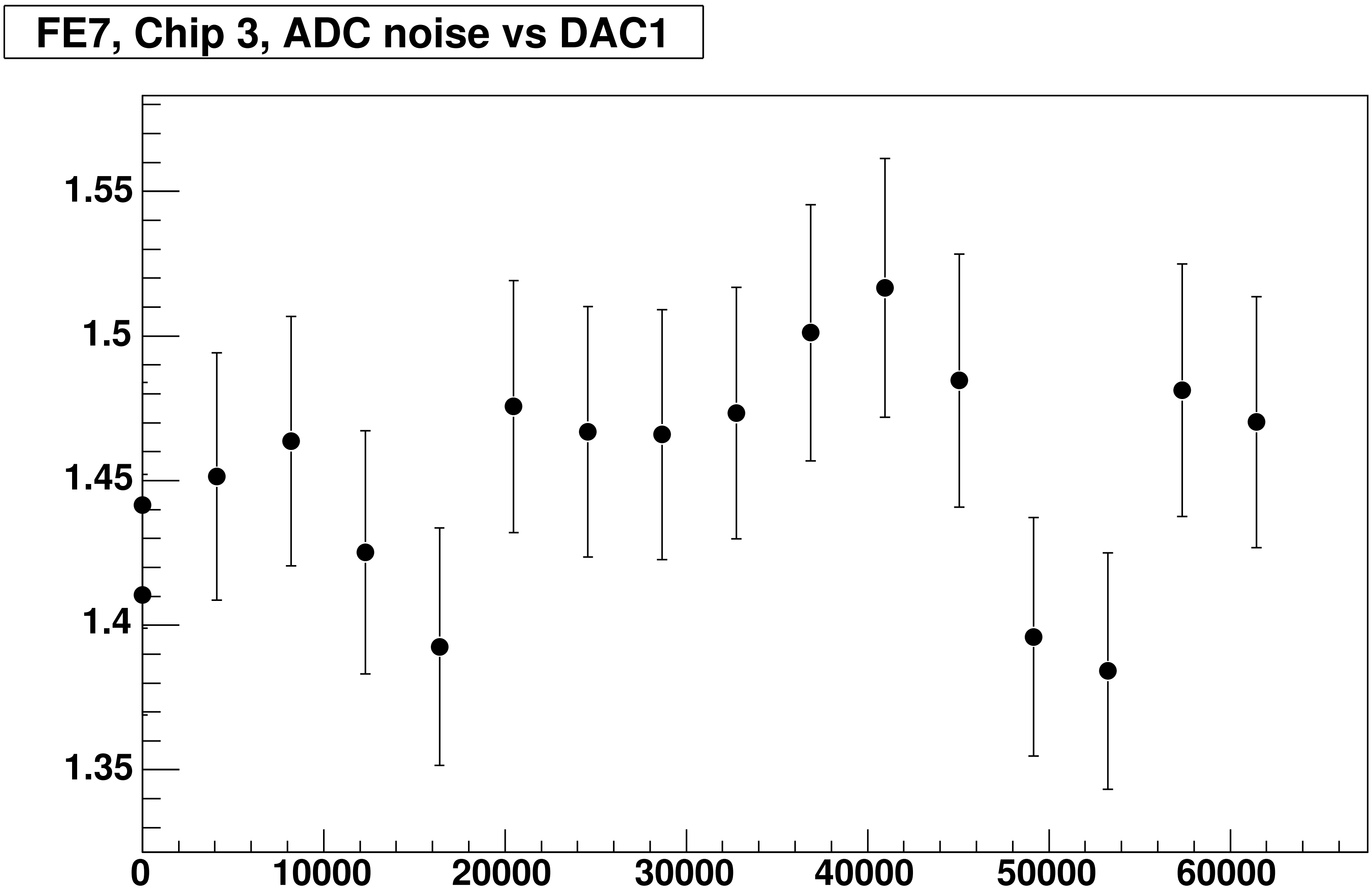

FE7, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1503 / 11
p0 99.59 ± 0.04104
p1 0.4507 ± 1.327e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

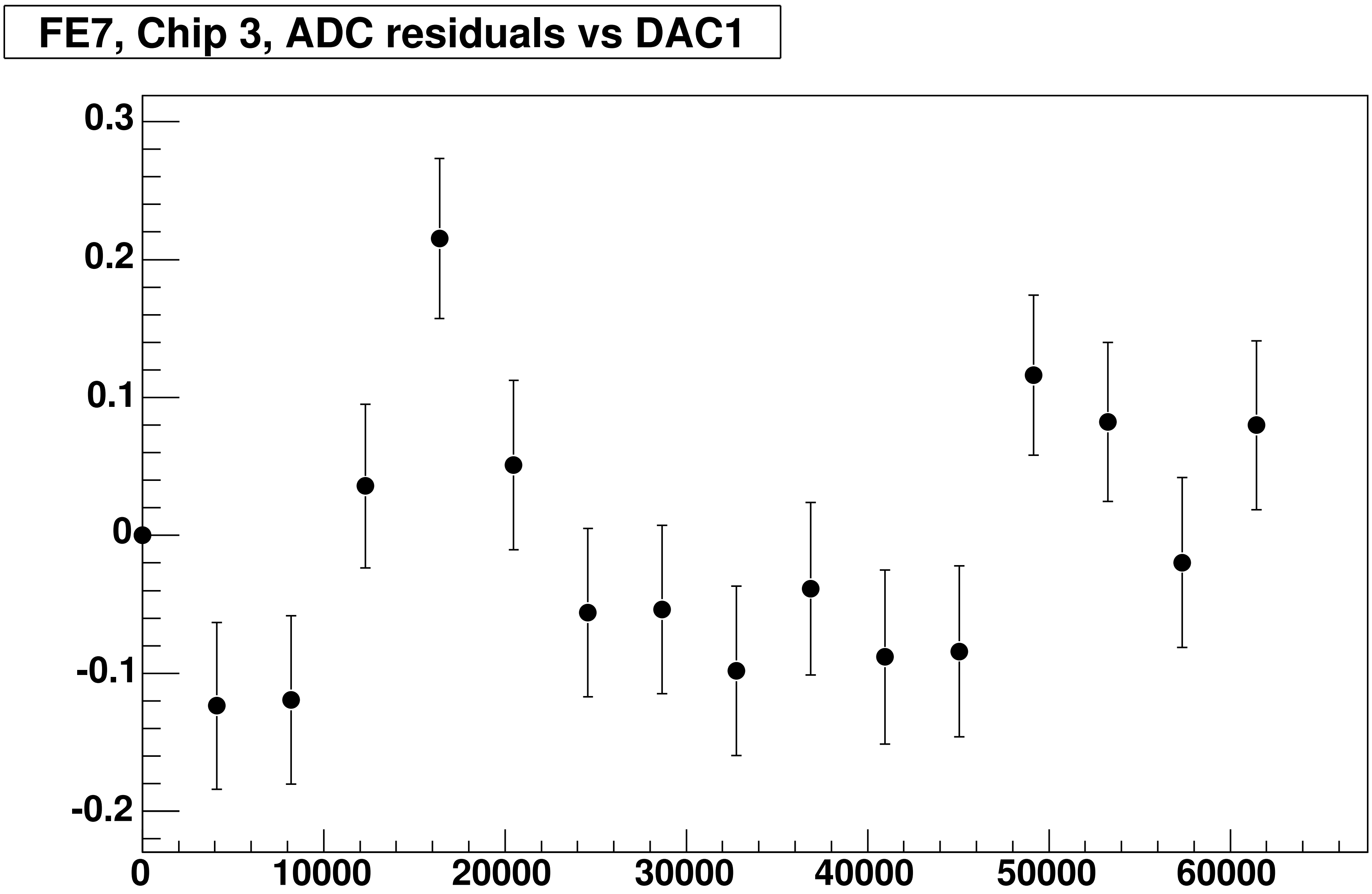

FE7, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

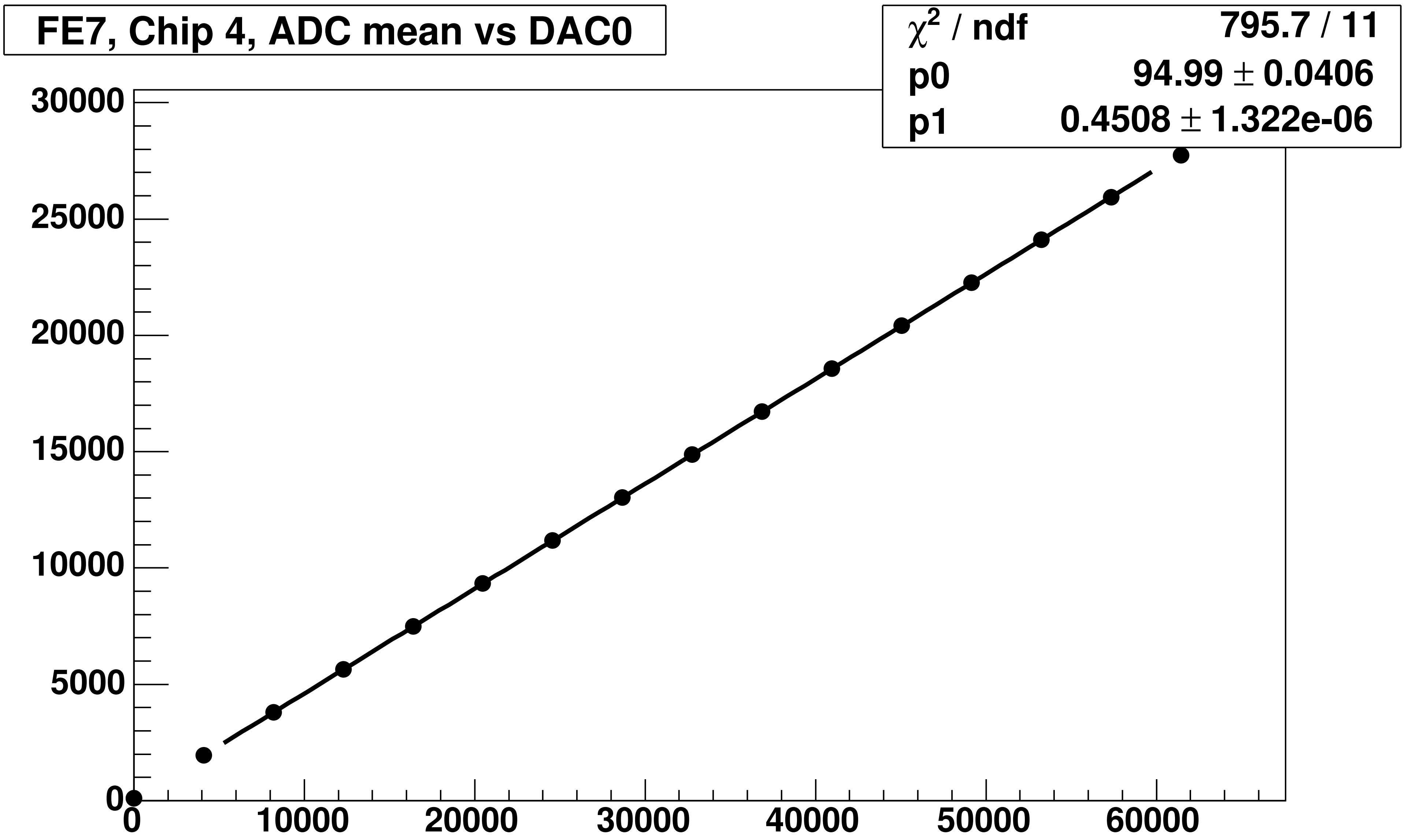

FE7, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

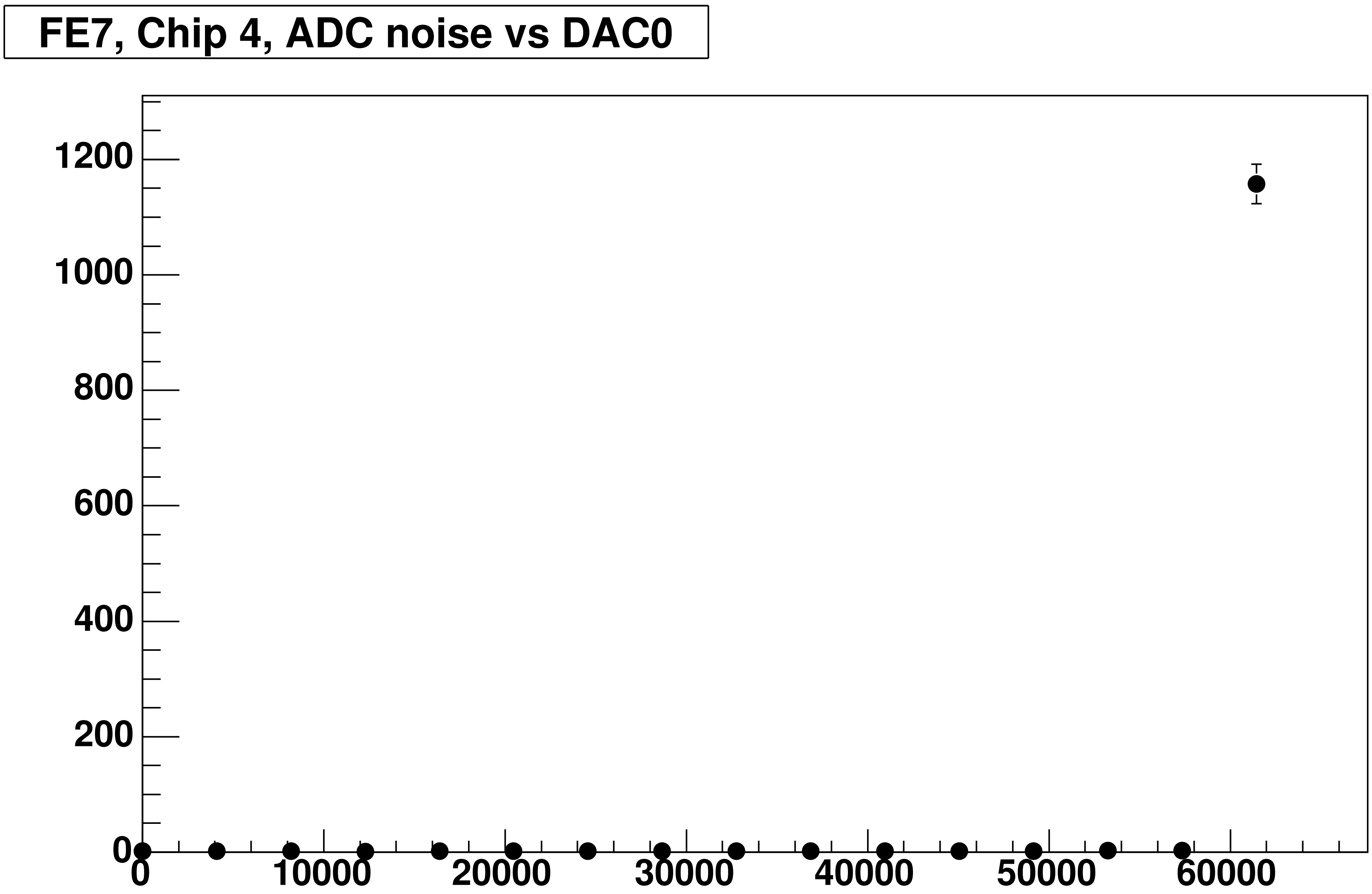


FE7, Chip 3, ADC mean vs DAC1
χ^2 / ndf 33.11 / 11
p0 100.3 ± 0.03933
p1 2.387e-06 ± 1.086e-06
100.1
100.2
100.3
100.4
100.5
100.6
0
10000
20000
30000
40000
50000
60000

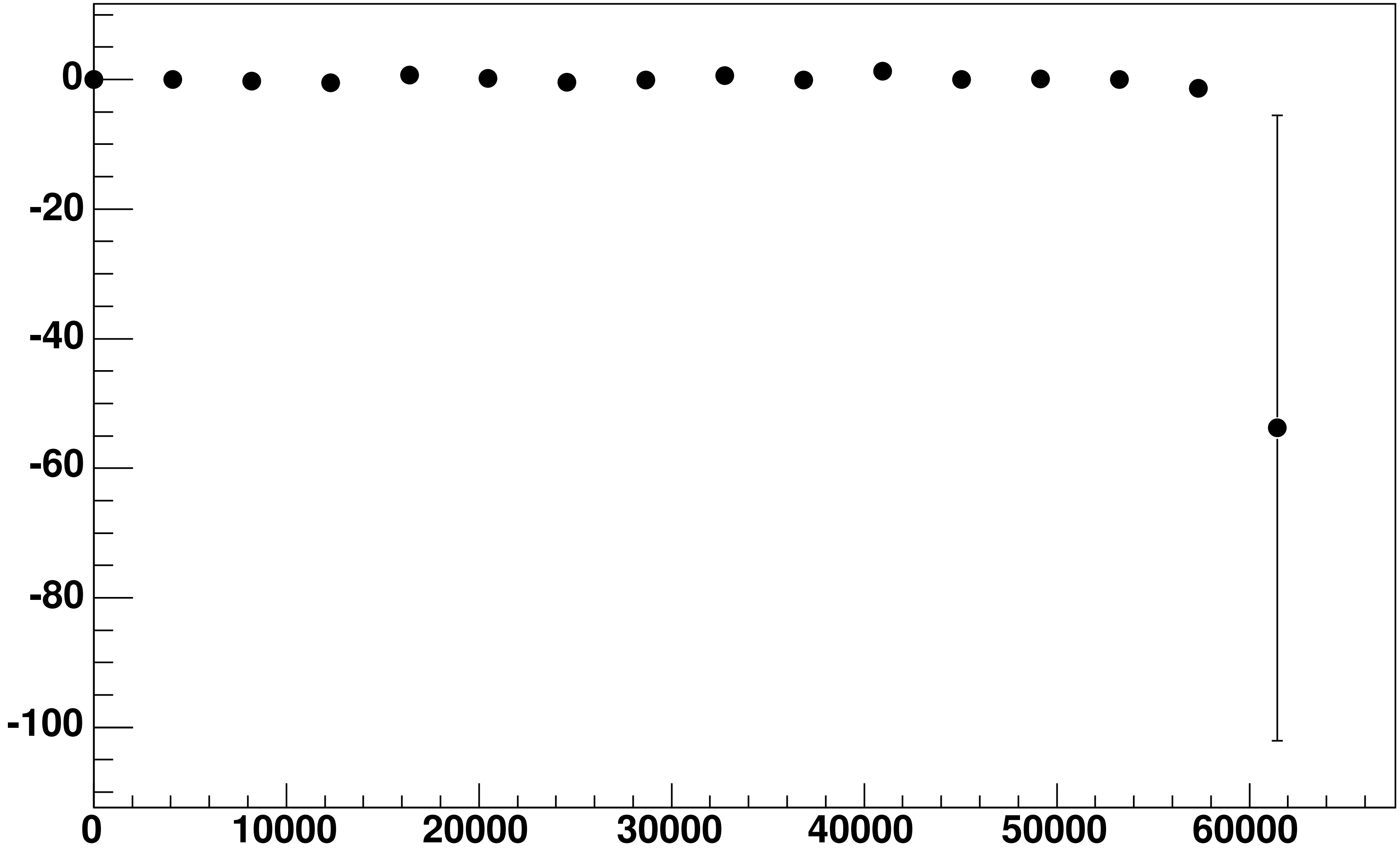

FE7, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

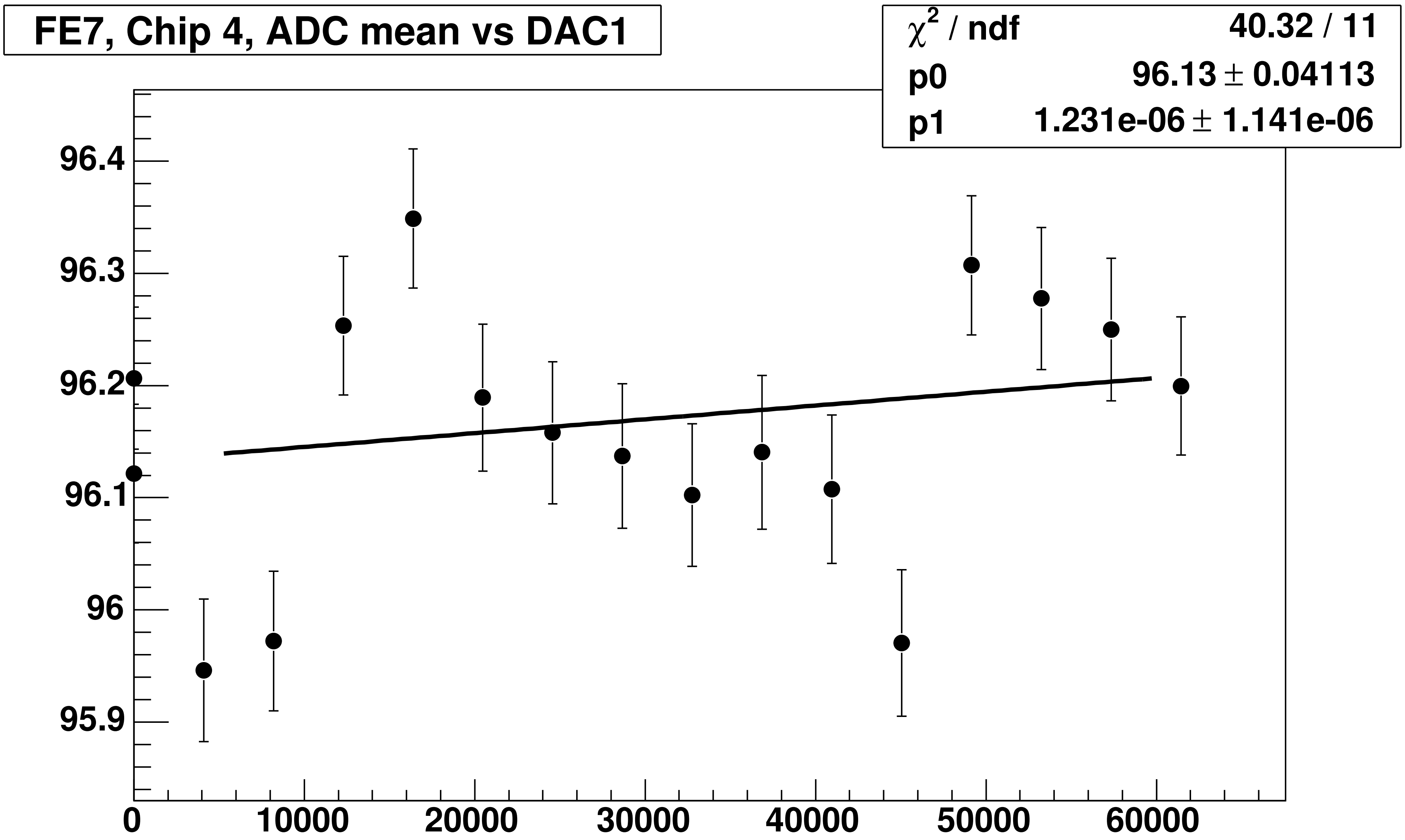

FE7, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

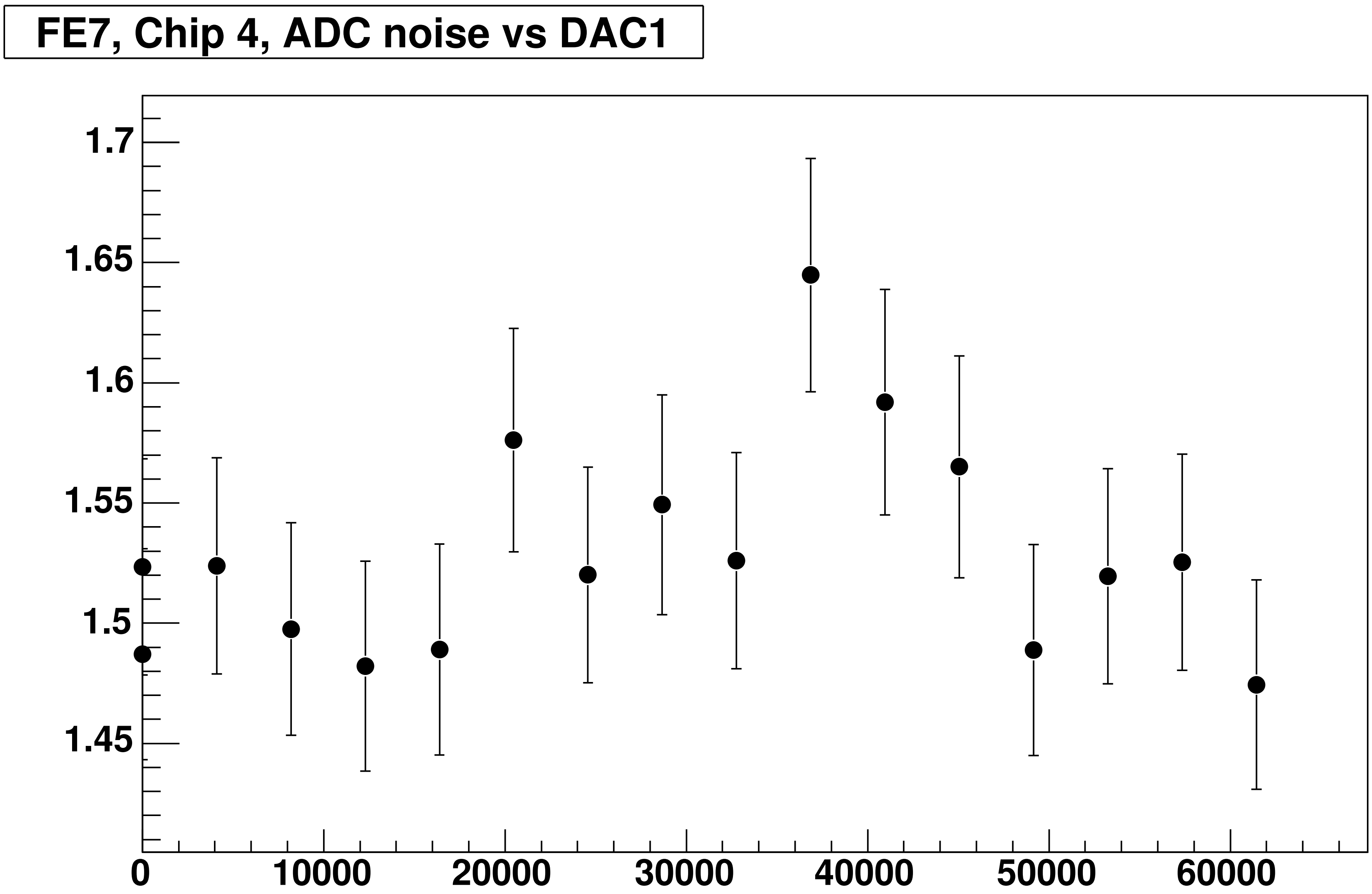

FE7, Chip 4, ADC mean vs DAC0
χ^2 / ndf 795.7 / 11
p0 94.99 ± 0.0406
p1 0.4508 ± 1.322e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

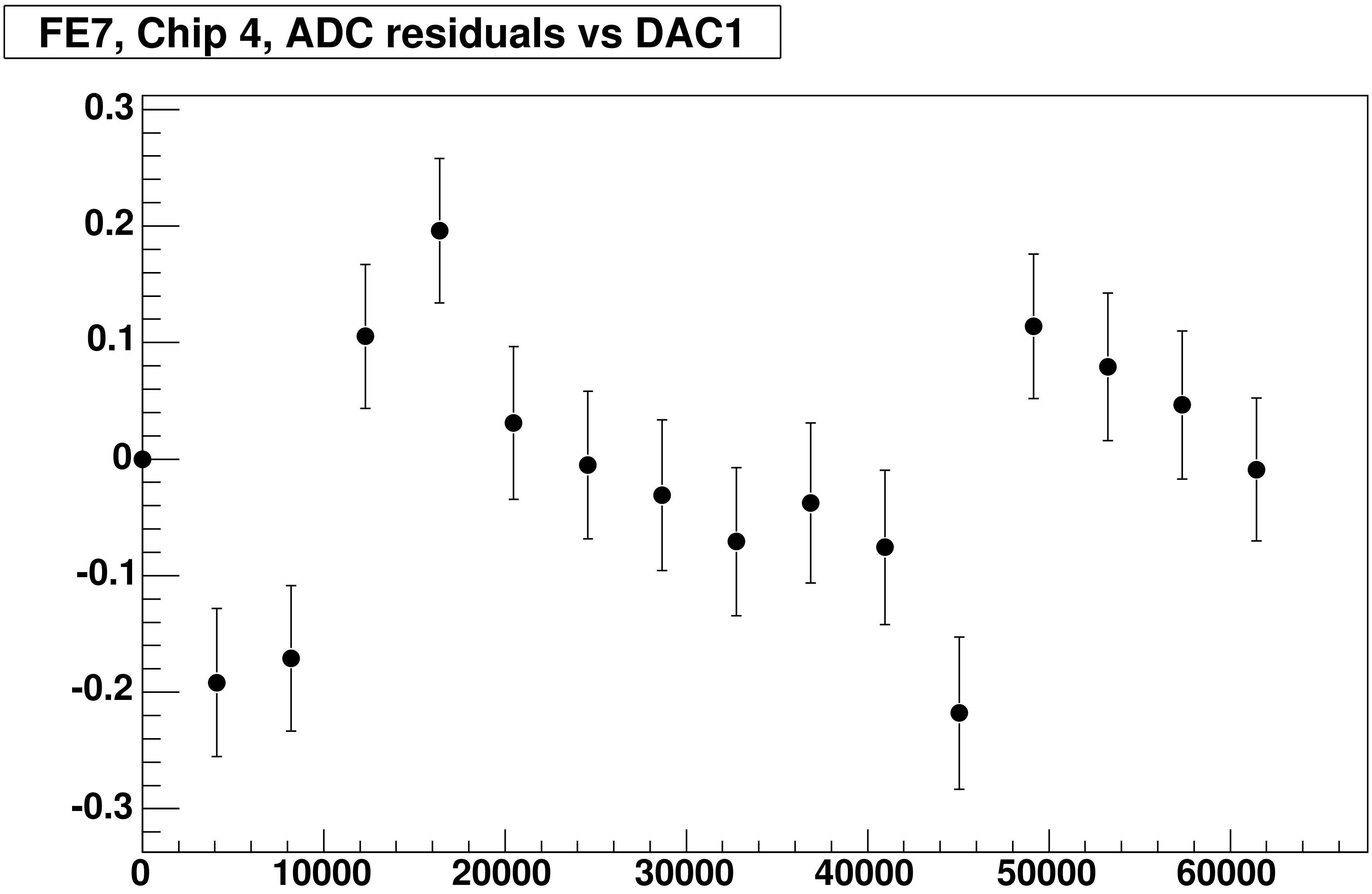

FE7, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

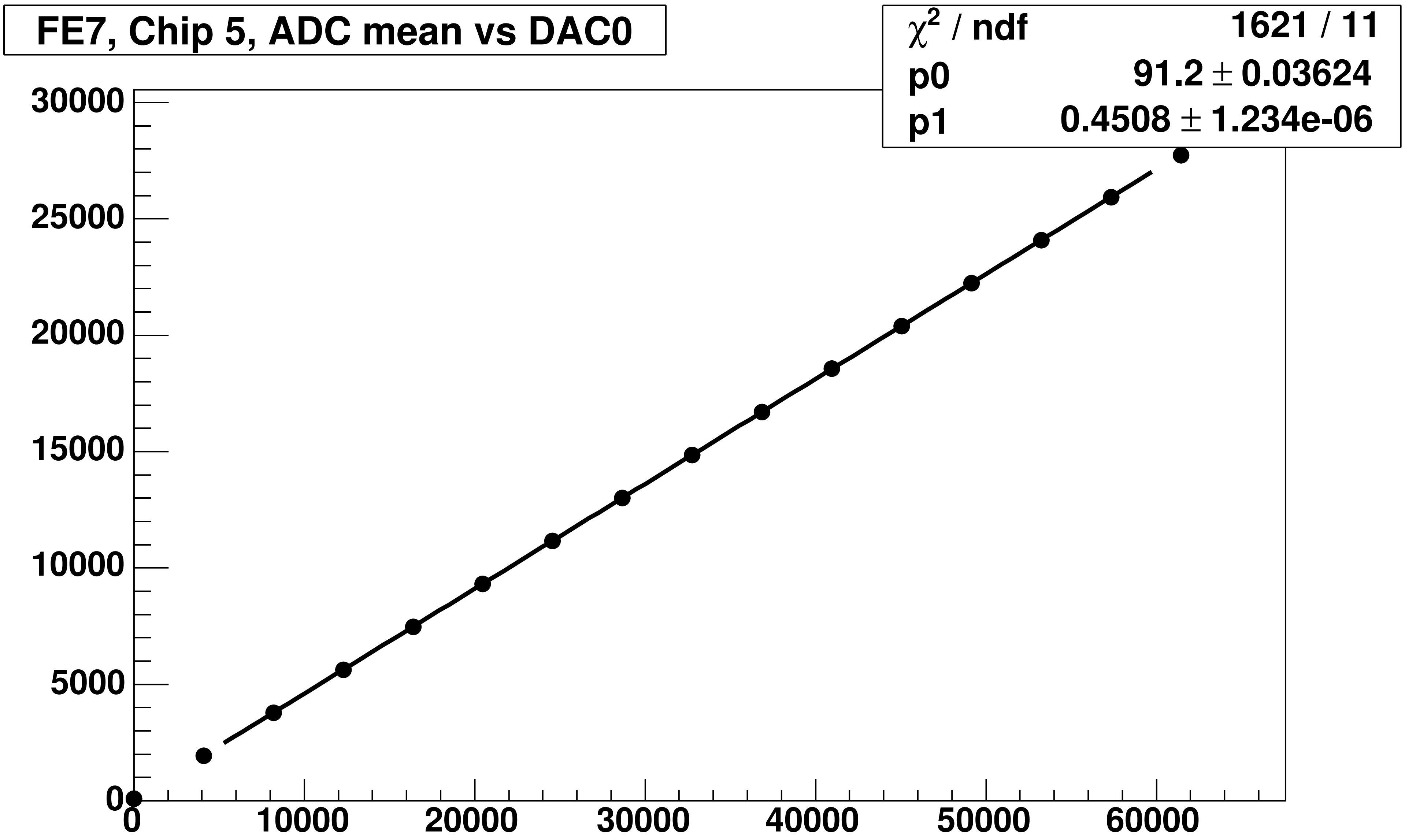
FE7, Chip 4, ADC residuals vs DAC0



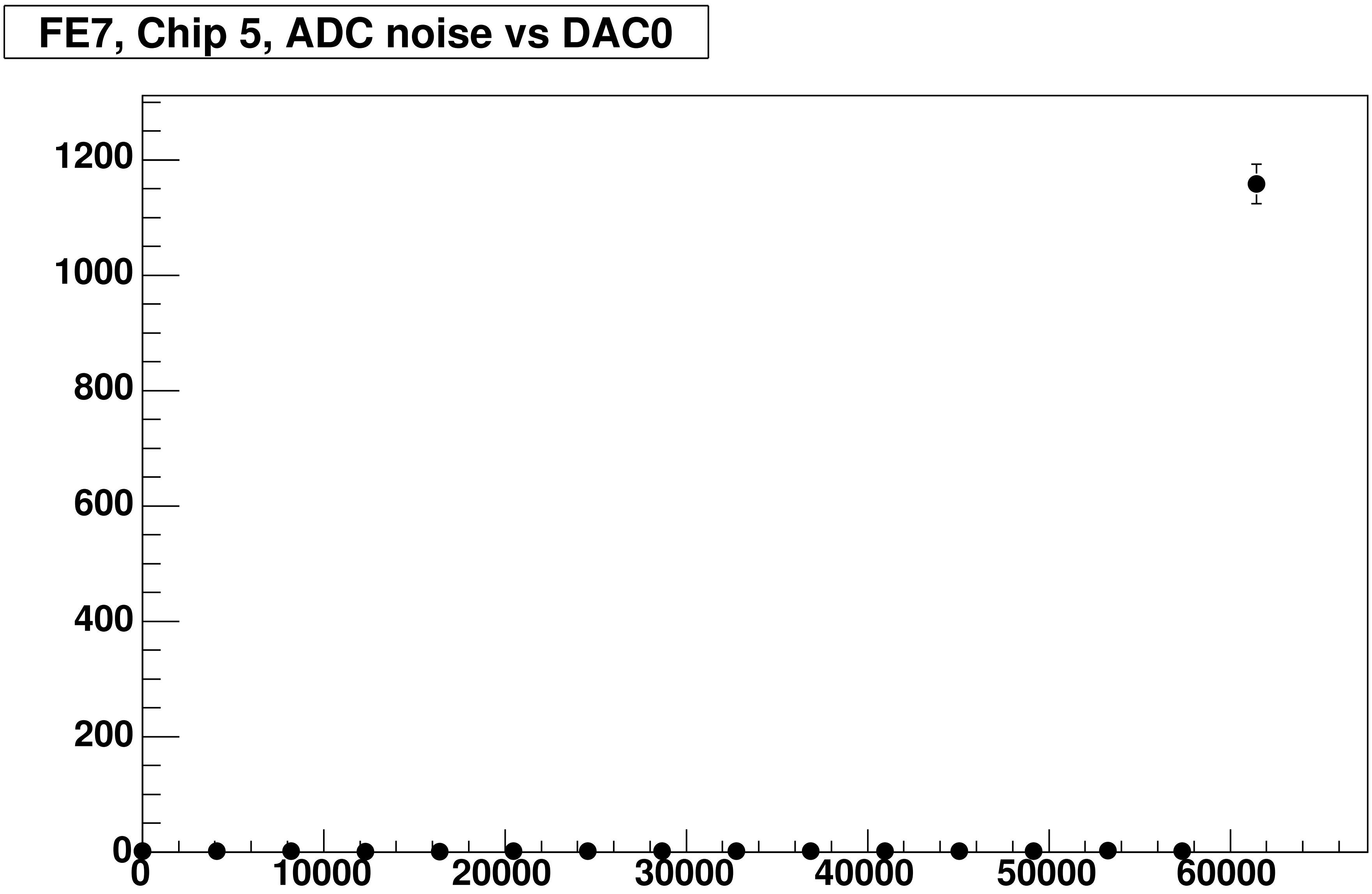

FE7, Chip 4, ADC mean vs DAC1
χ^2 / ndf 40.32 / 11
p0 96.13 ± 0.04113
p1 1.231e-06 ± 1.141e-06
96.4
96.3
96.2
96.1
96
95.9
0
10000
20000
30000
40000
50000
60000

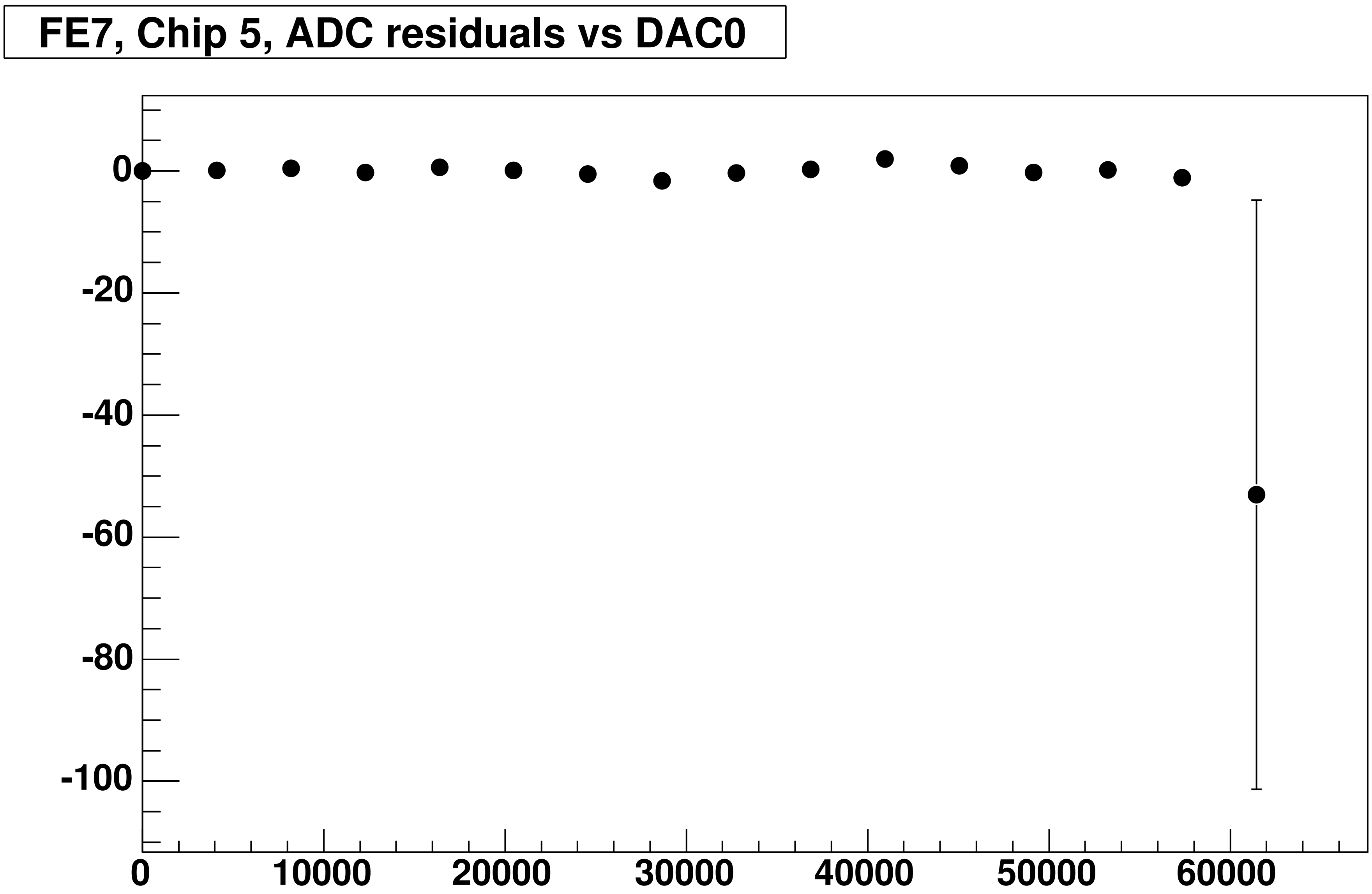

FE7, Chip 4, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

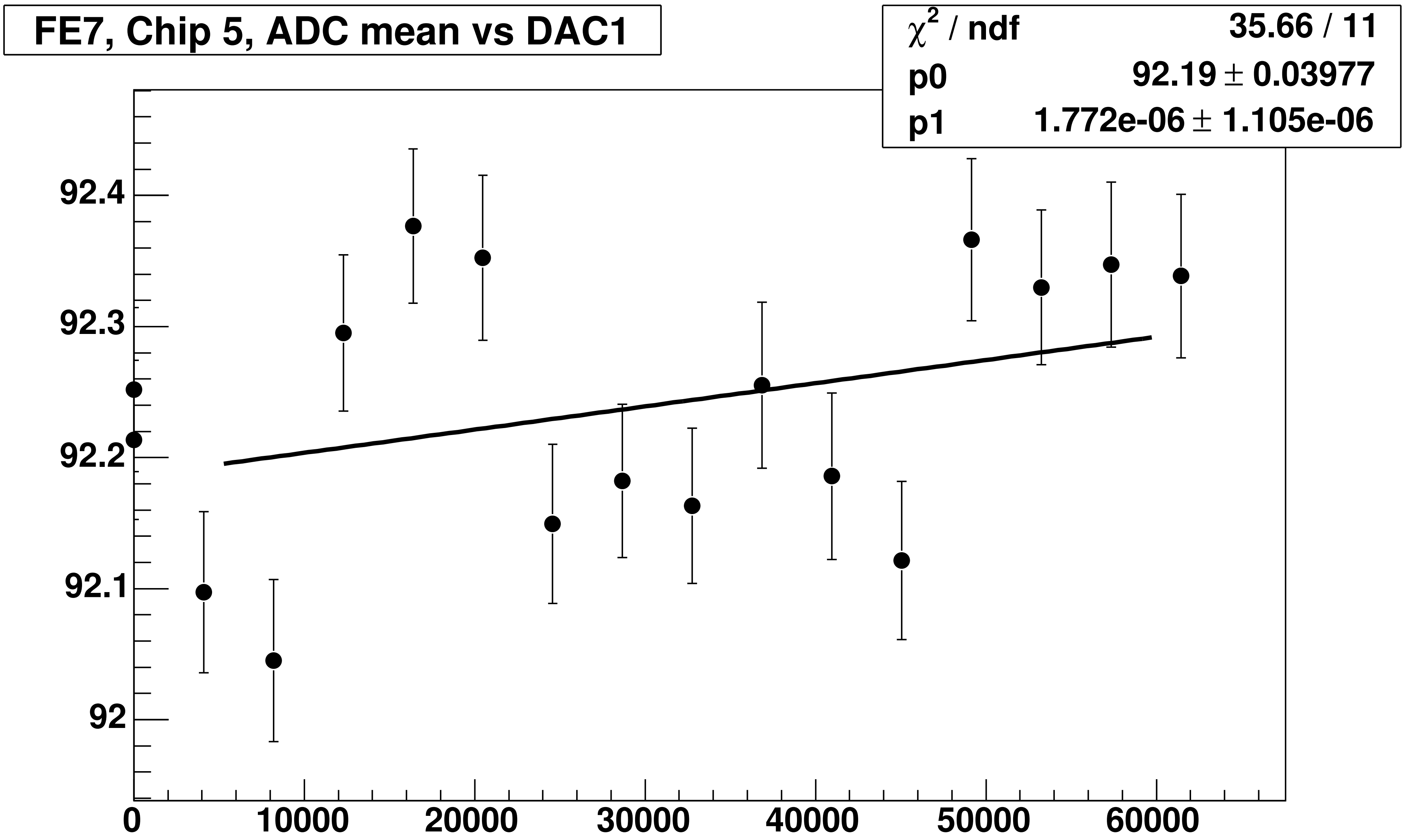

FE7, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

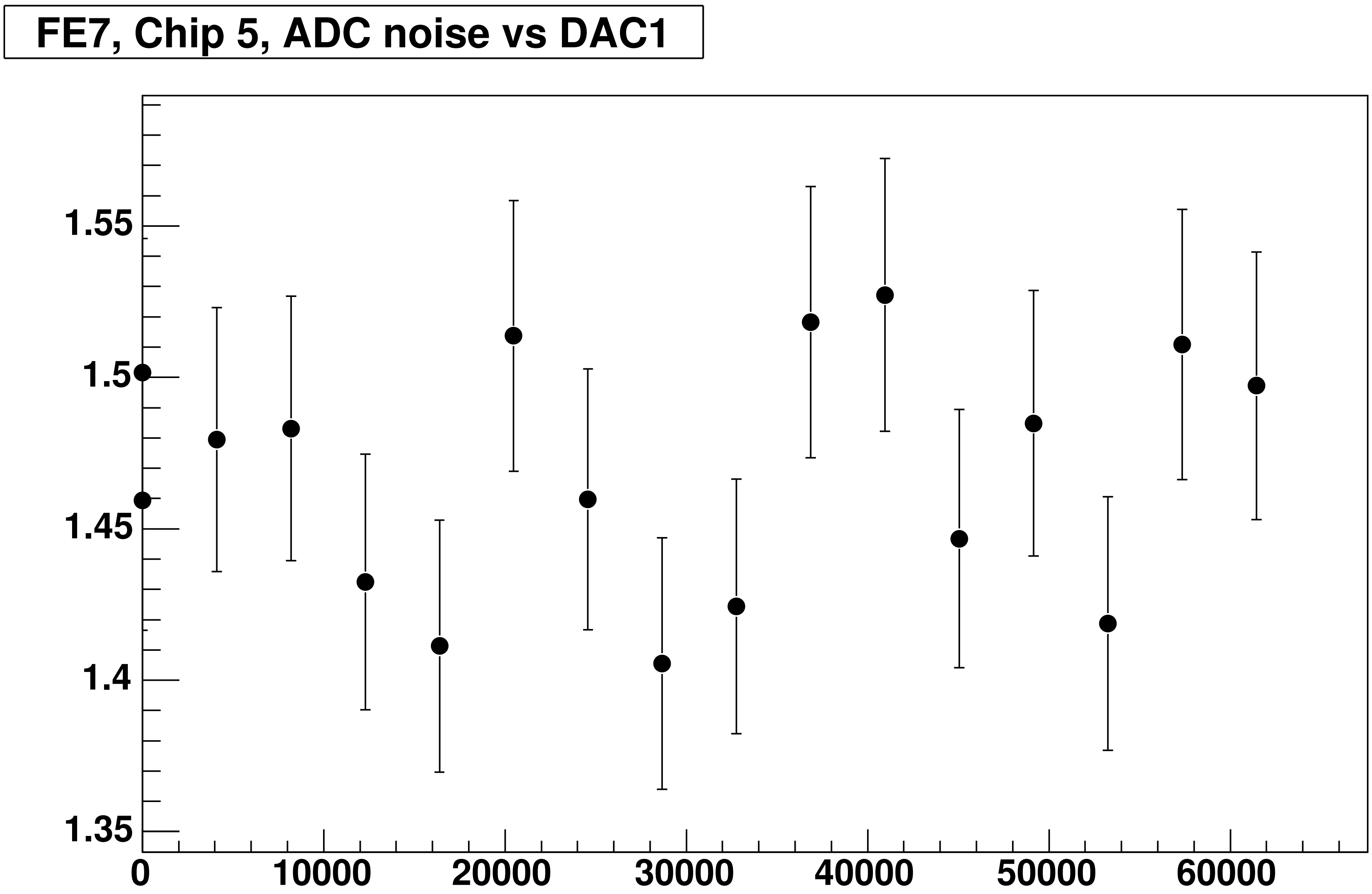


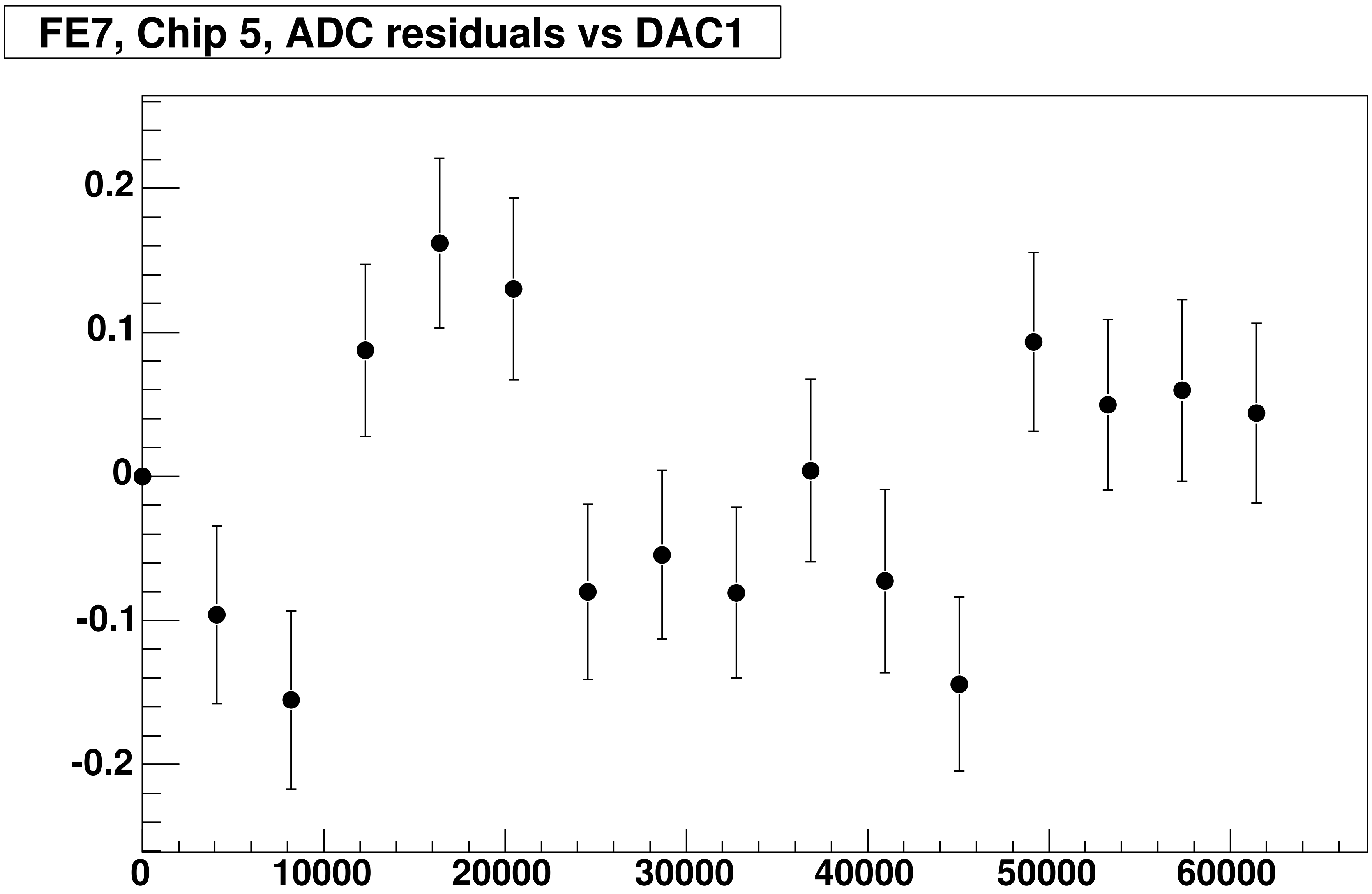
FE7, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1621 / 11
p0 91.2 ± 0.03624
p1 0.4508 ± 1.234e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

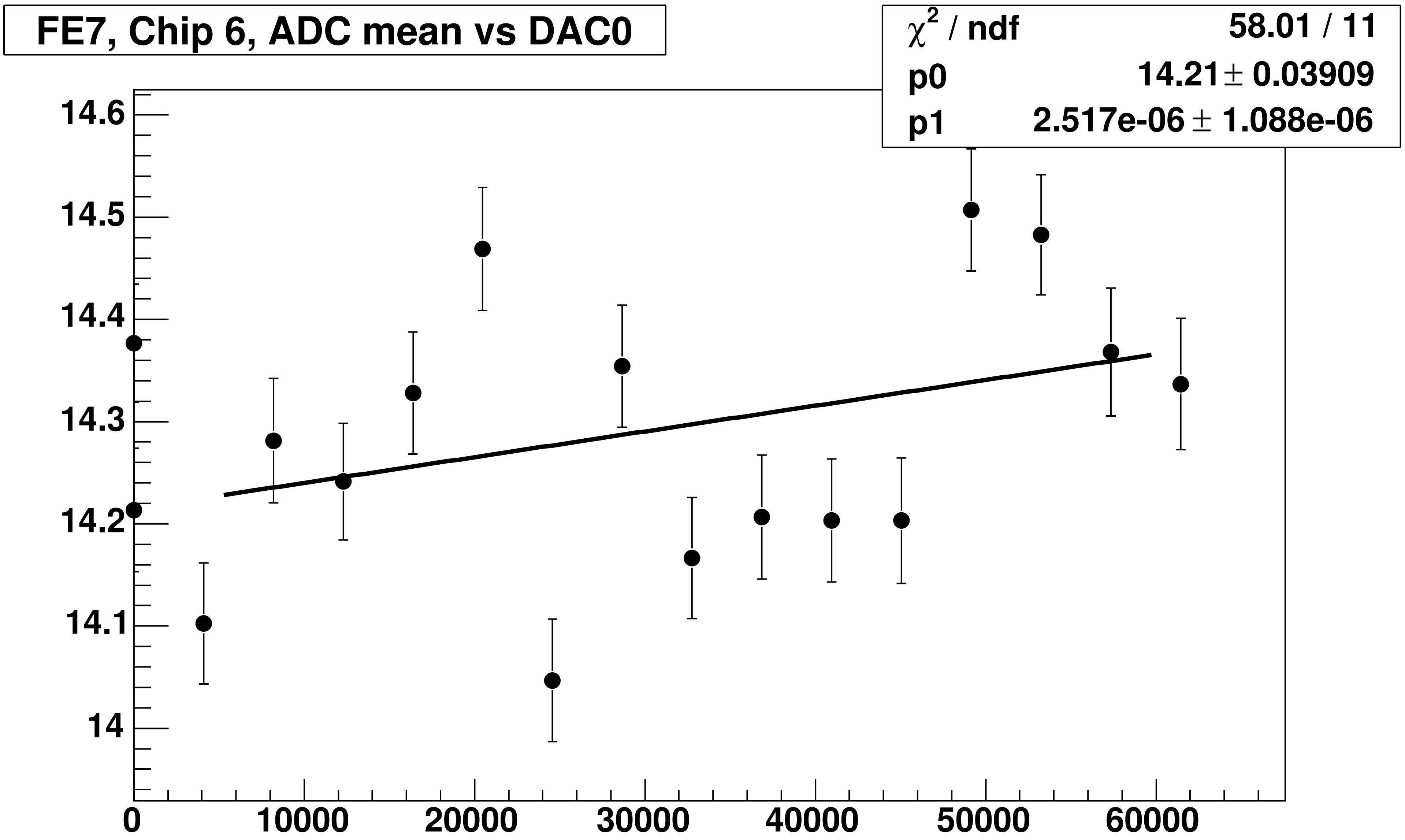

FE7, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

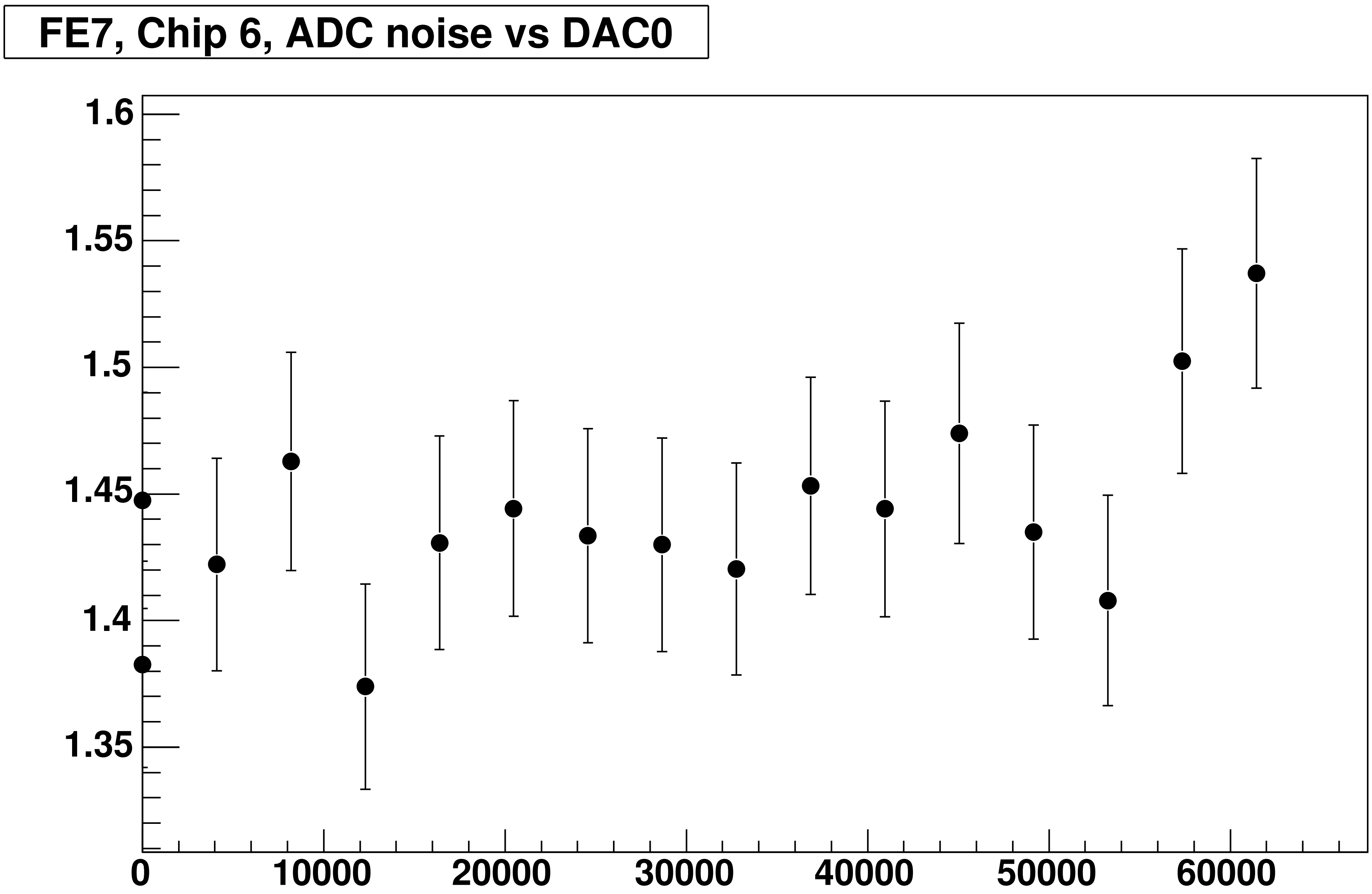

FE7, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

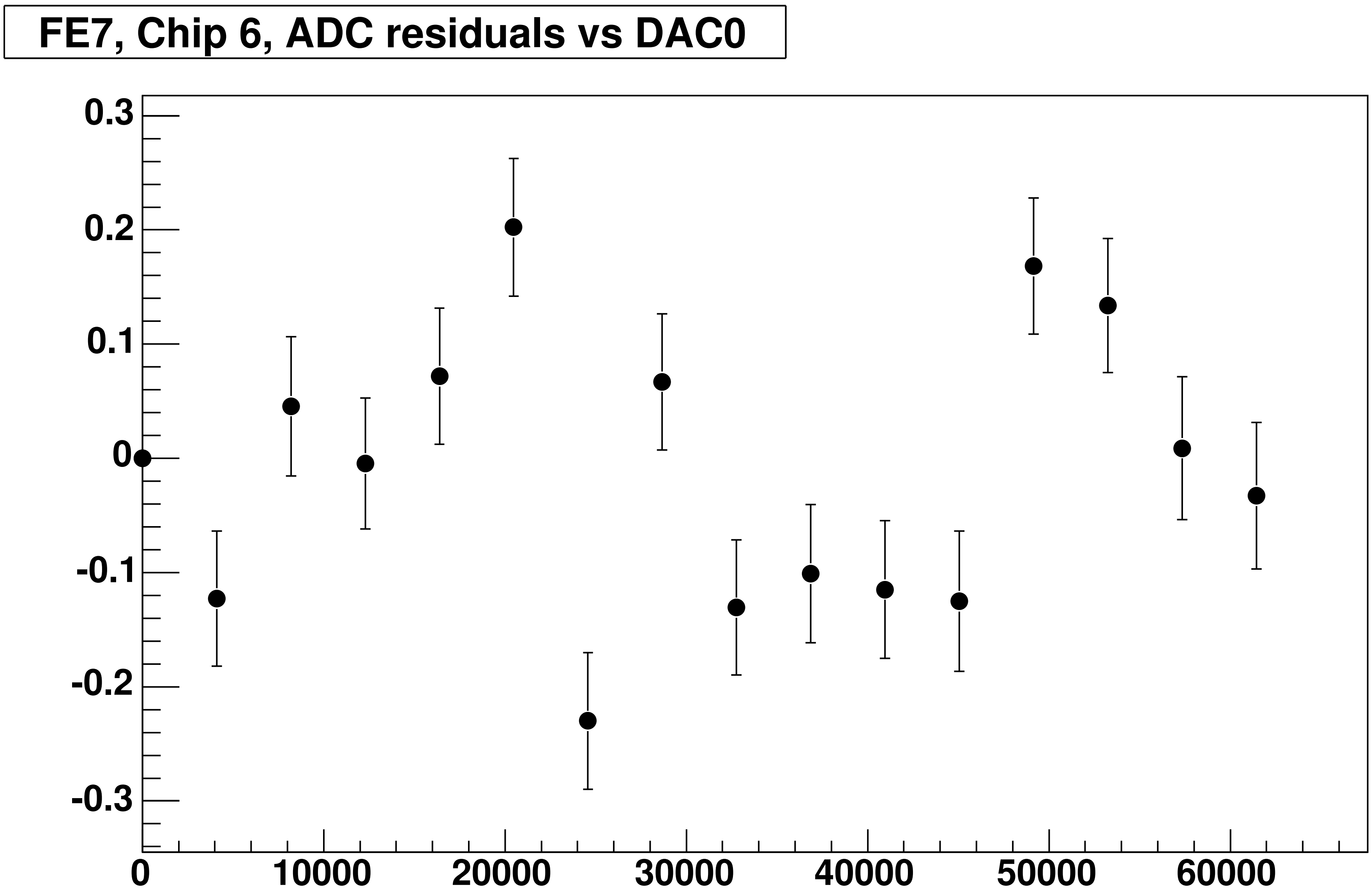

FE7, Chip 5, ADC mean vs DAC1
χ^2 / ndf 35.66 / 11
p0 92.19 ± 0.03977
p1 1.772e-06 ± 1.105e-06
92.4
92.3
92.2
92.1
92
0
10000
20000
30000
40000
50000
60000

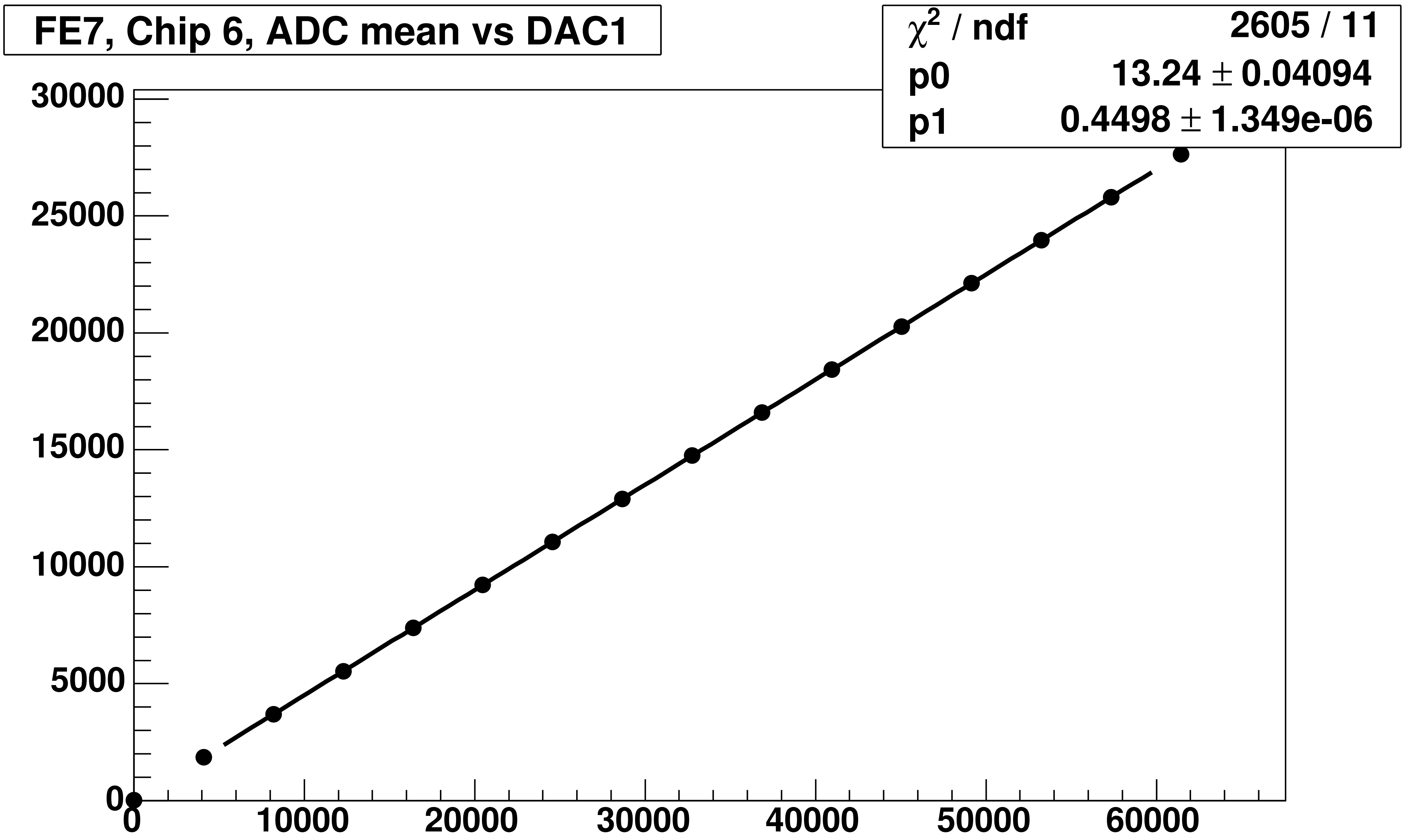

FE7, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

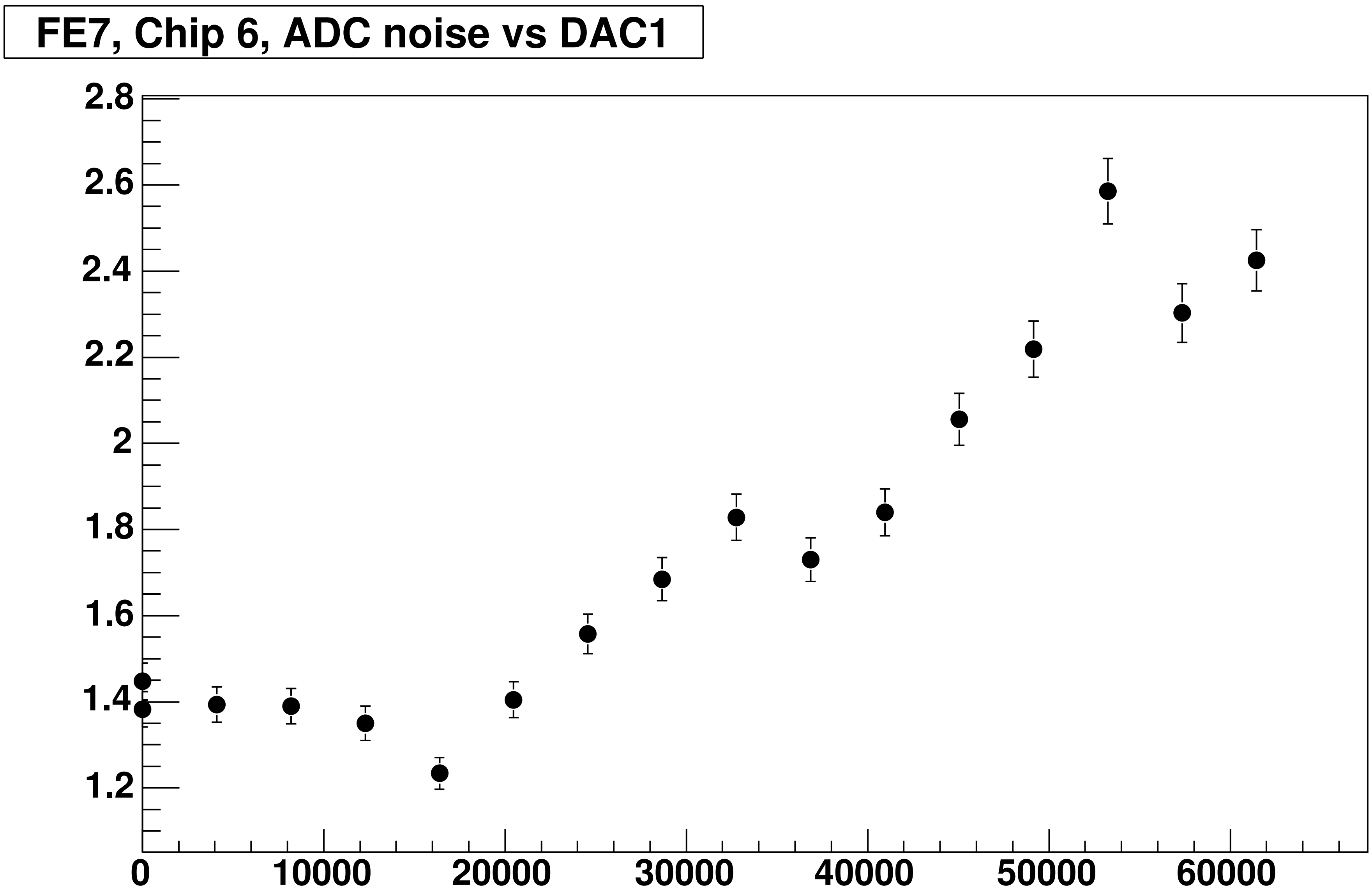

FE7, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

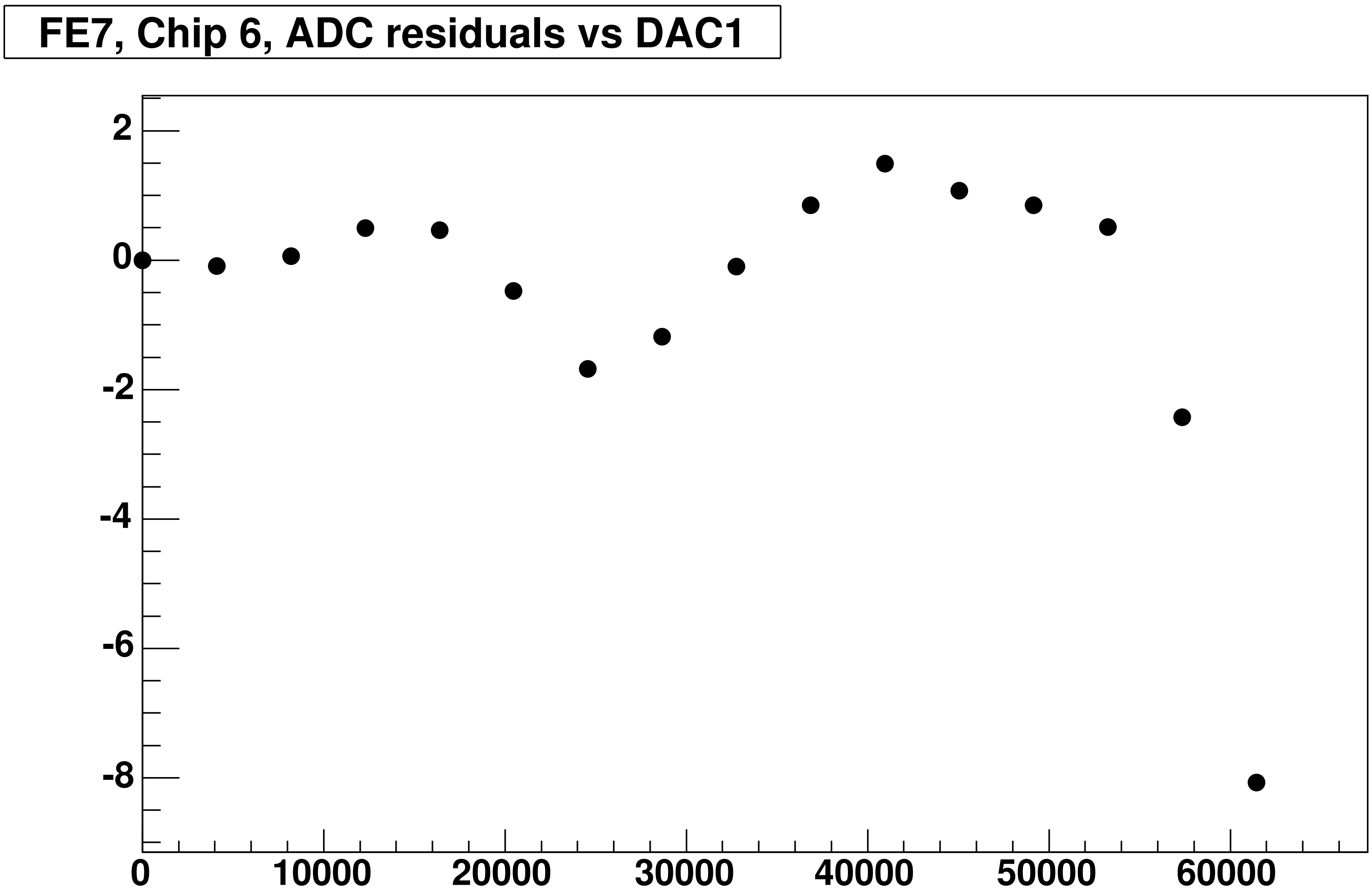

FE7, Chip 6, ADC mean vs DAC0
χ² / ndf 58.01 / 11
p0 14.21 ± 0.03909
p1 2.517e-06 ± 1.088e-06
14.6
14.5
14.4
14.3
14.2
14.1
14
0
10000
20000
30000
40000
50000
60000

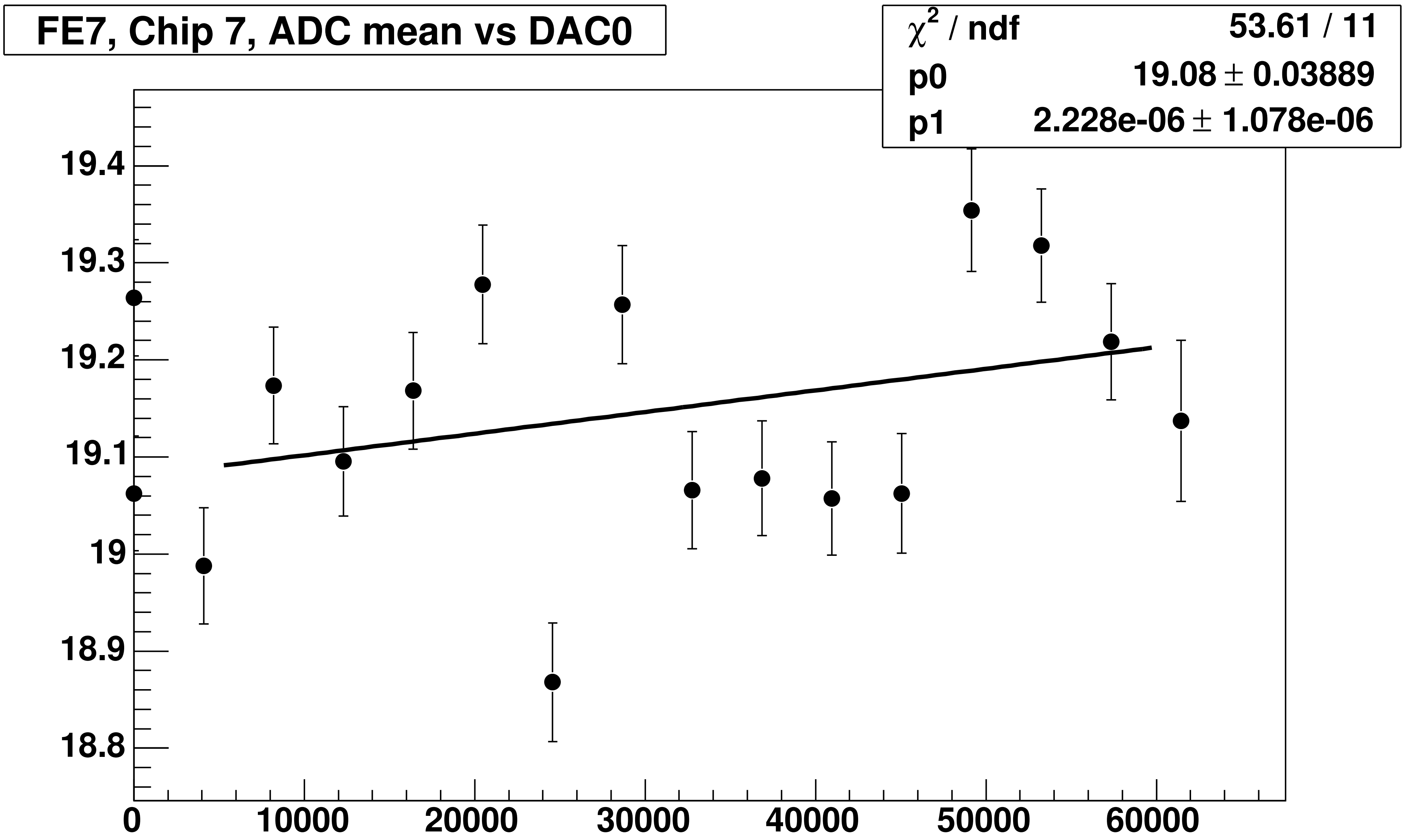

FE7, Chip 6, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE7, 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

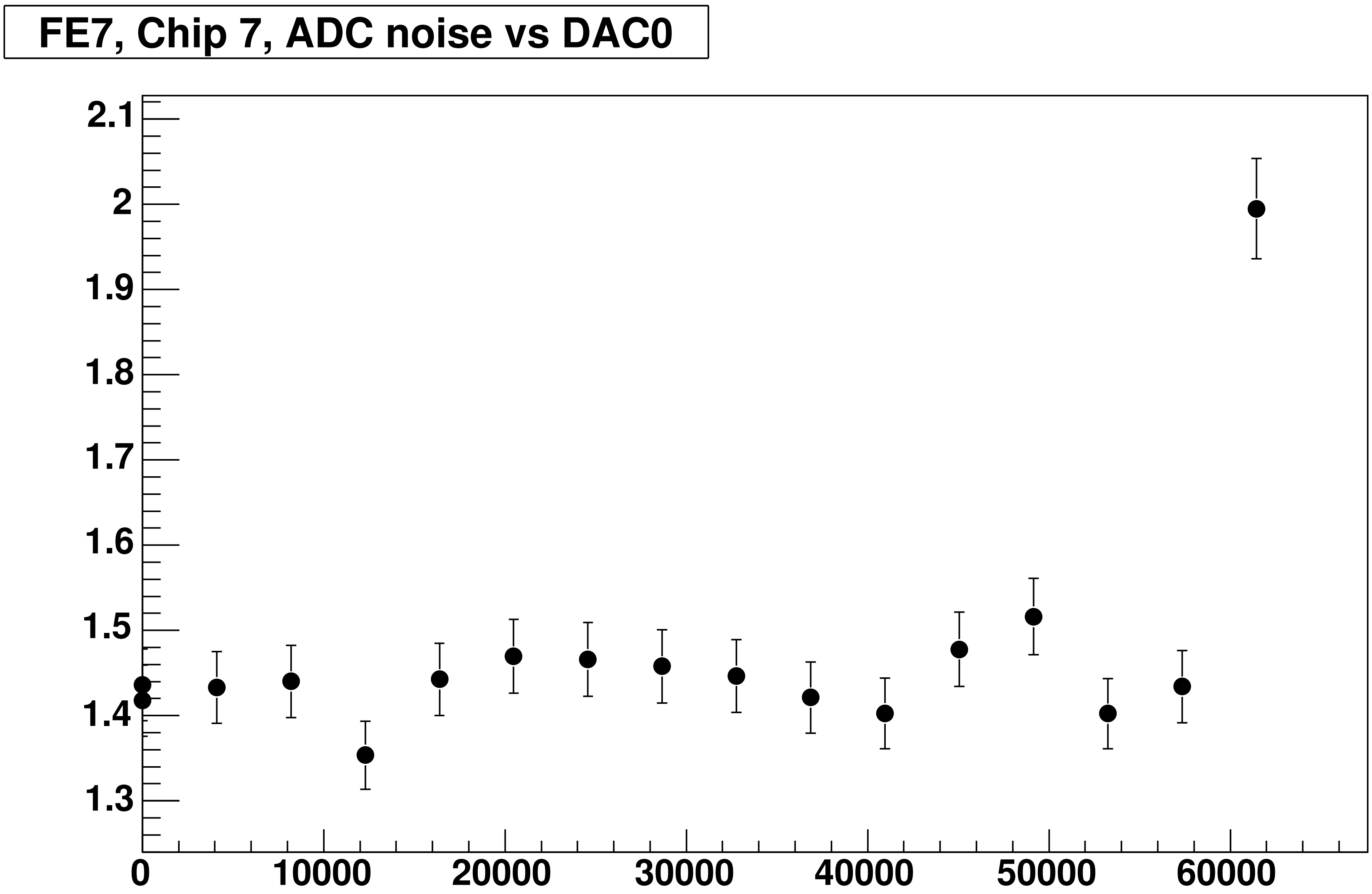

FE7, Chip 6, ADC mean vs DAC1
χ^2 / ndf 2605 / 11
p0 13.24 ± 0.04094
p1 0.4498 ± 1.349e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

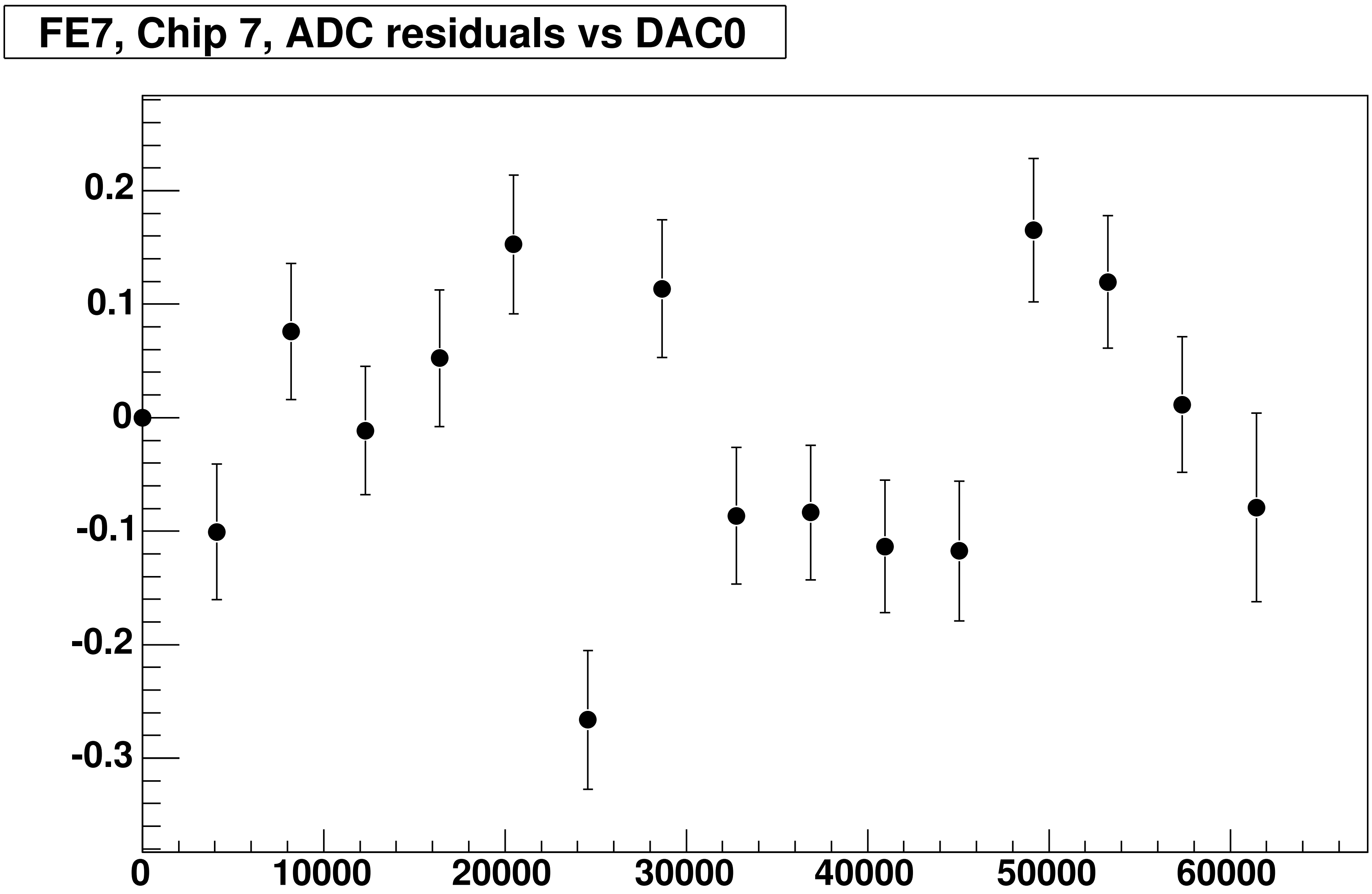

FE7, Chip 6, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

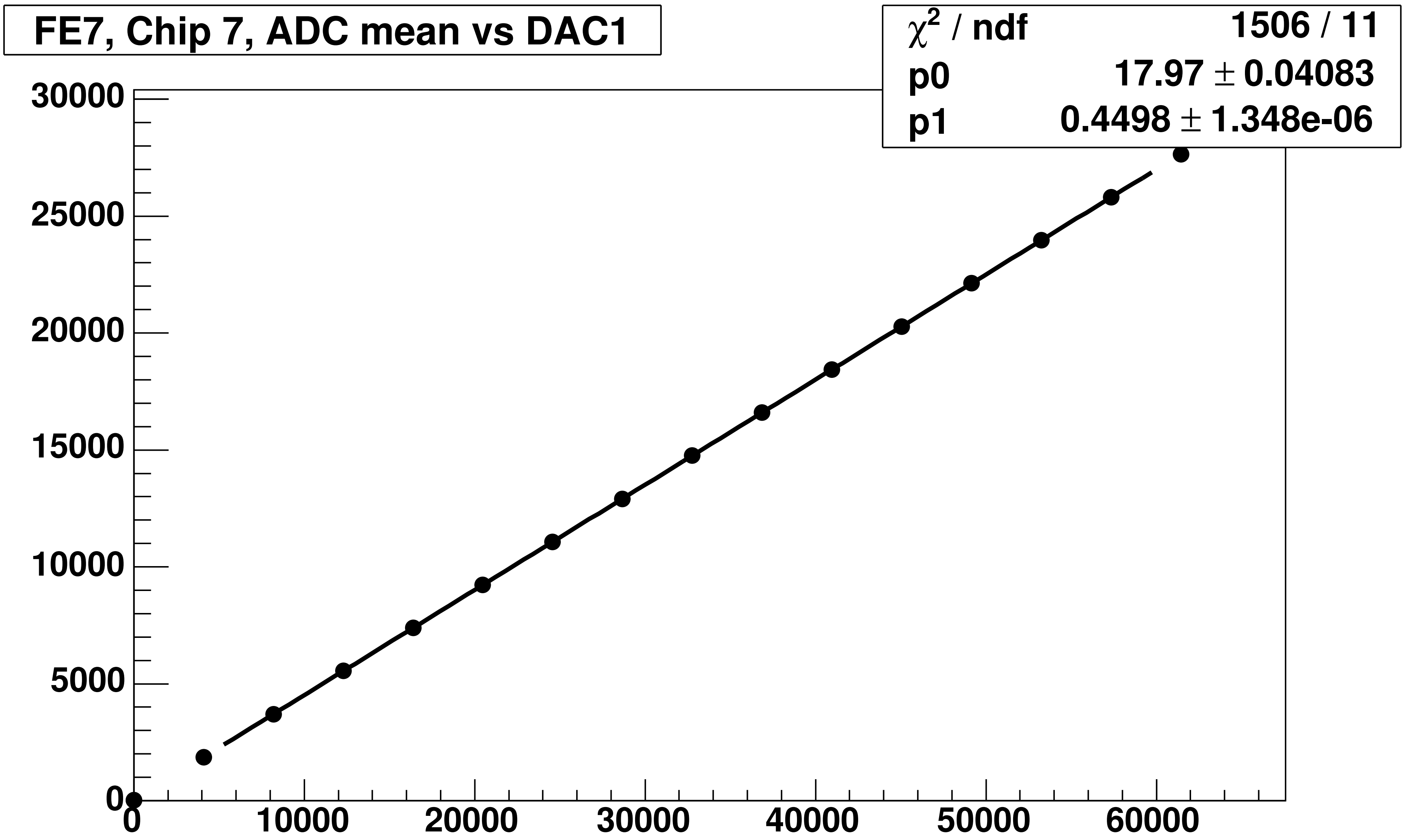

FE7, Chip 6, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000



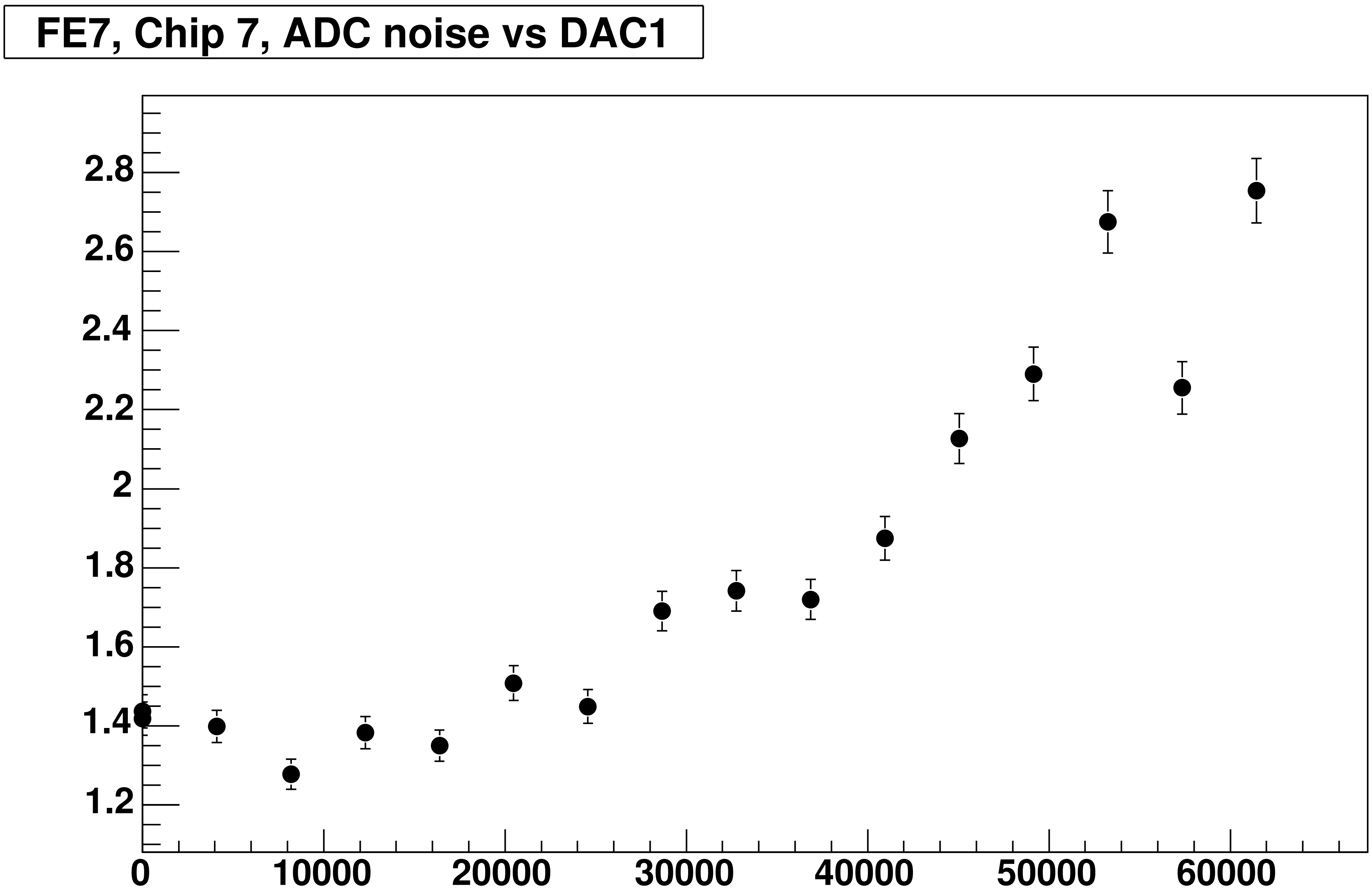
FE7, Chip 7, ADC mean vs DAC0
χ² / ndf 53.61 / 11
p0 19.08 ± 0.03889
p1 2.228e-06 ± 1.078e-06
19.4
19.3
19.2
19.1
19
18.9
18.8
0
10000
20000
30000
40000
50000
60000

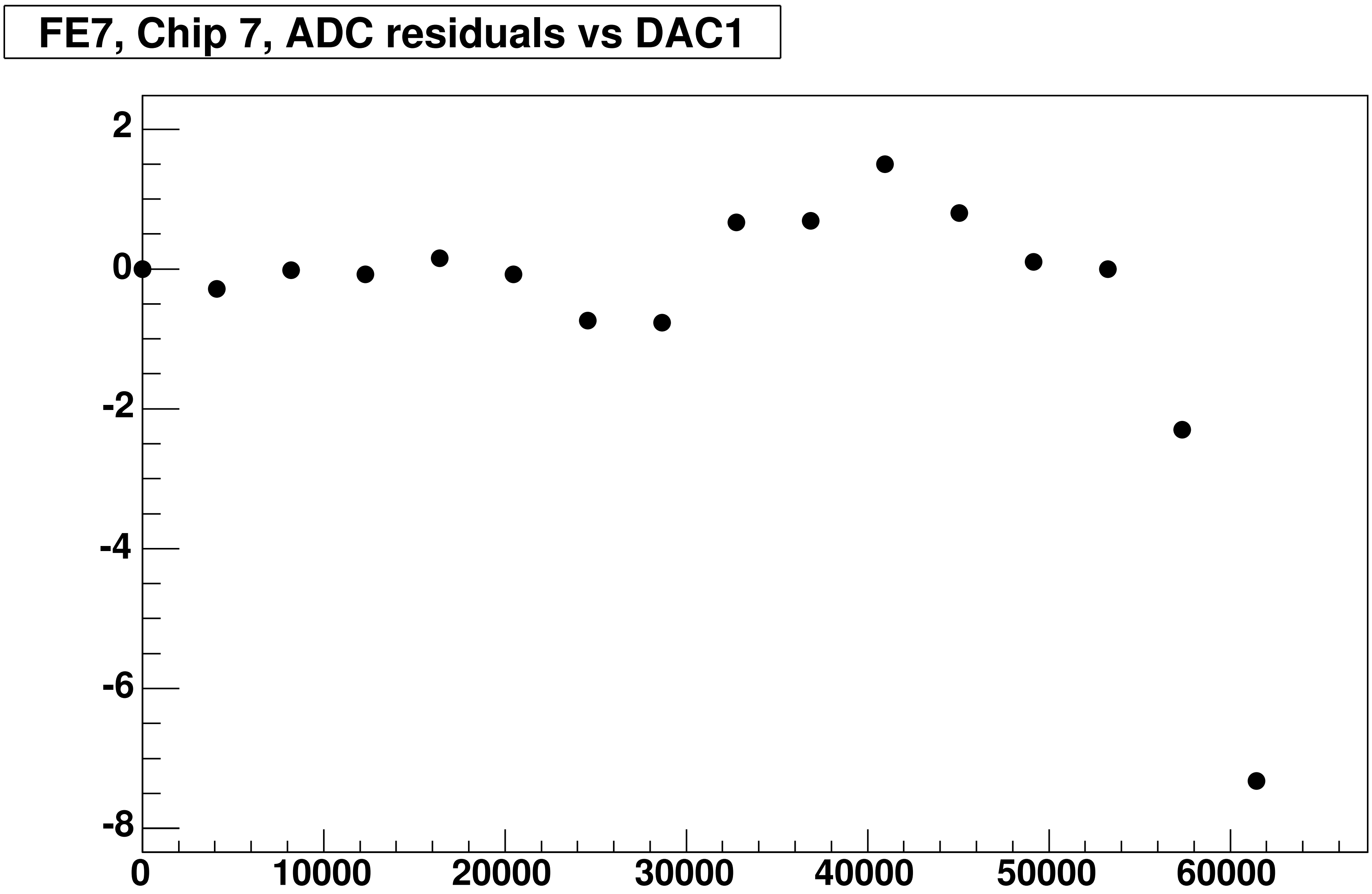

FE7, Chip 7, ADC noise vs DAC0
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

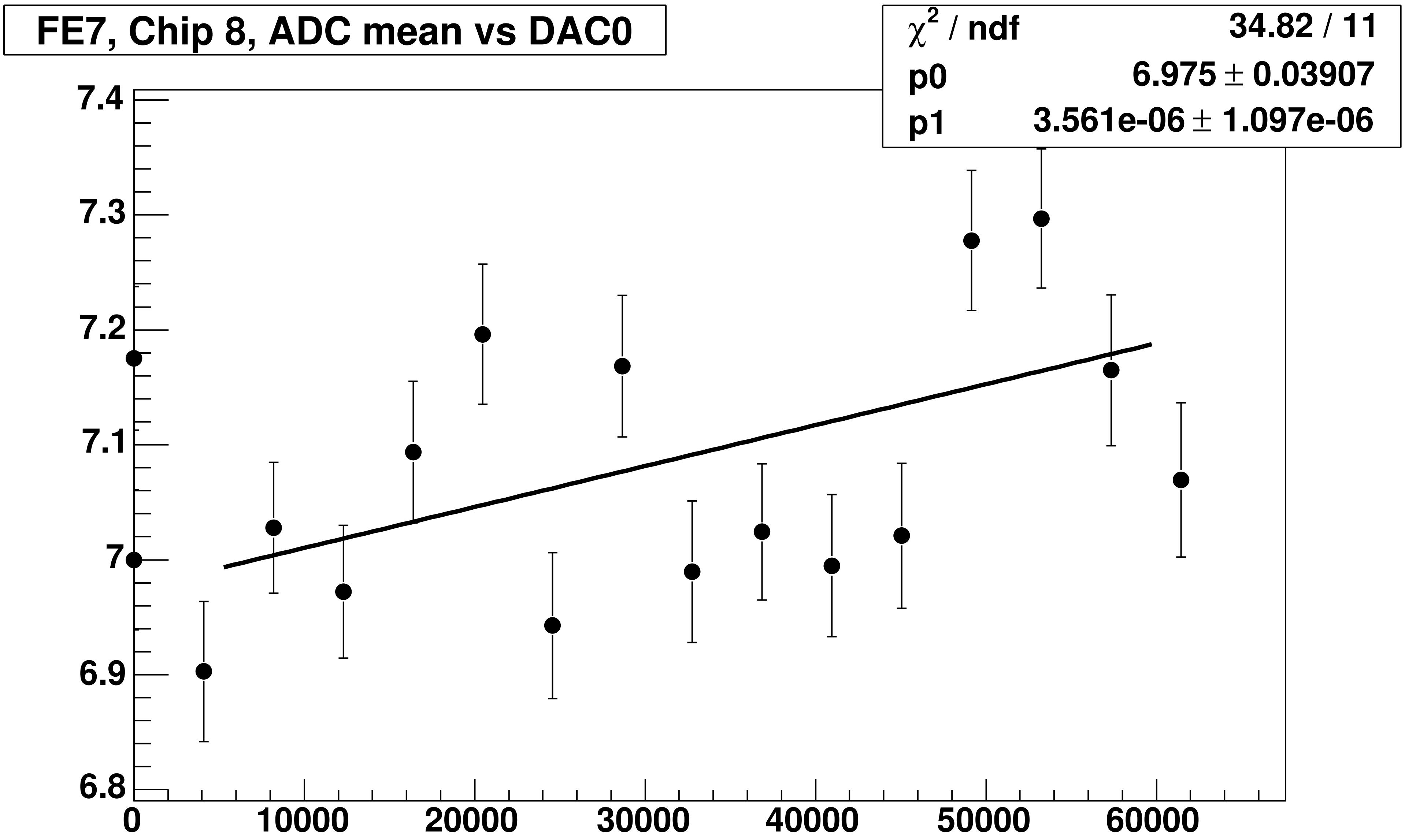

FE7, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



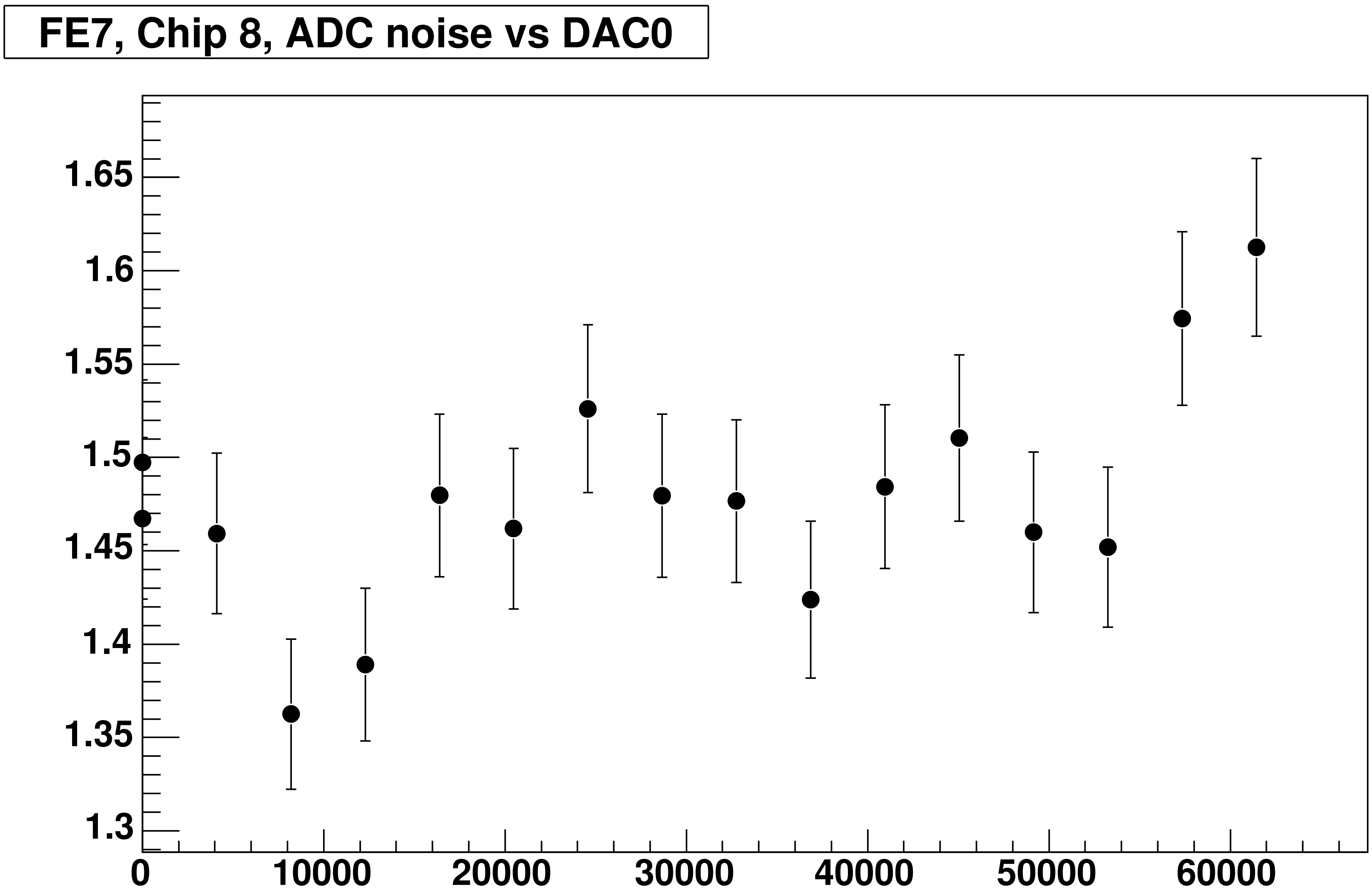
FE7, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1506 / 11
p0 17.97 ± 0.04083
p1 0.4498 ± 1.348e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

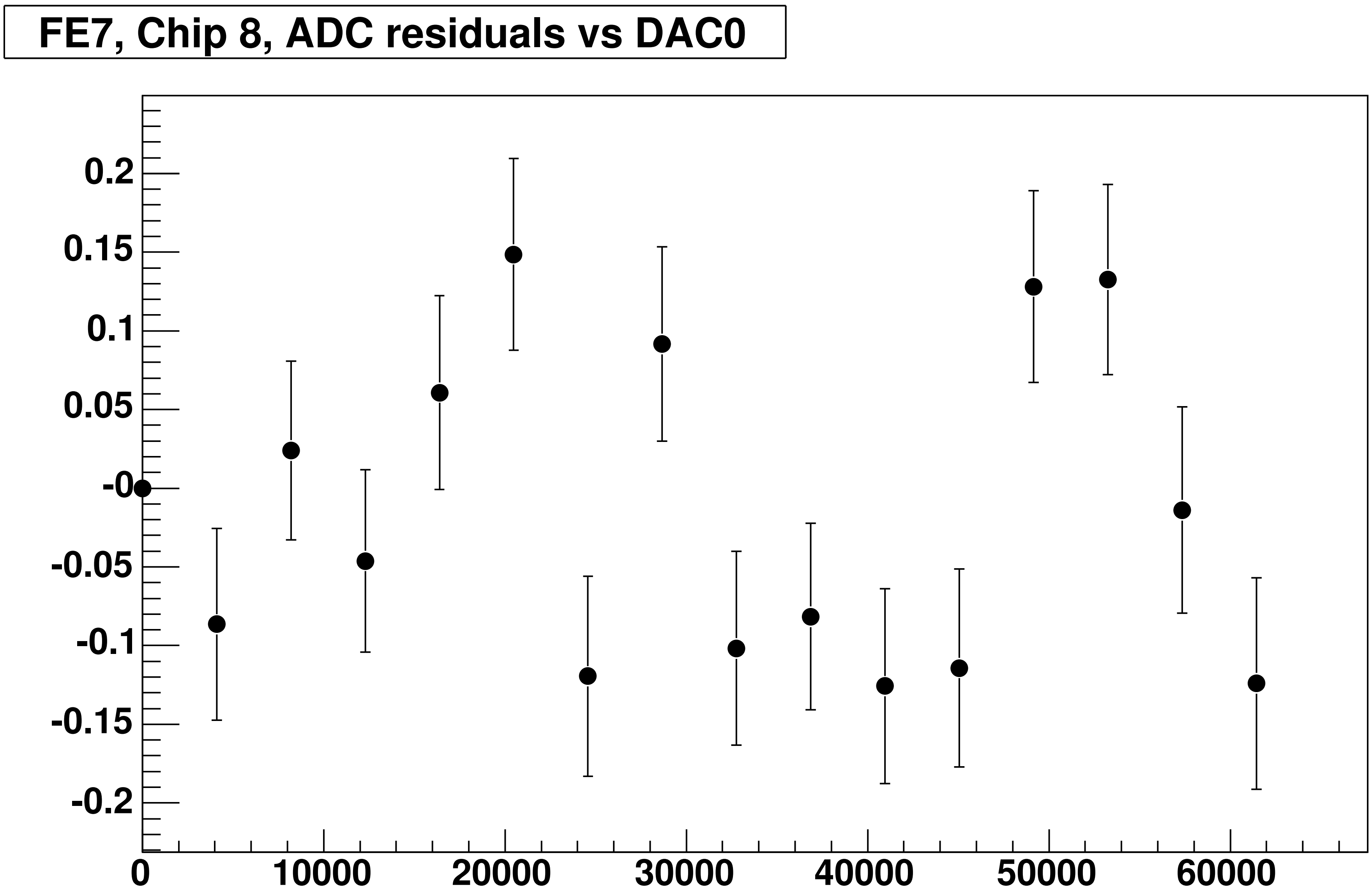

FE7, Chip 7, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

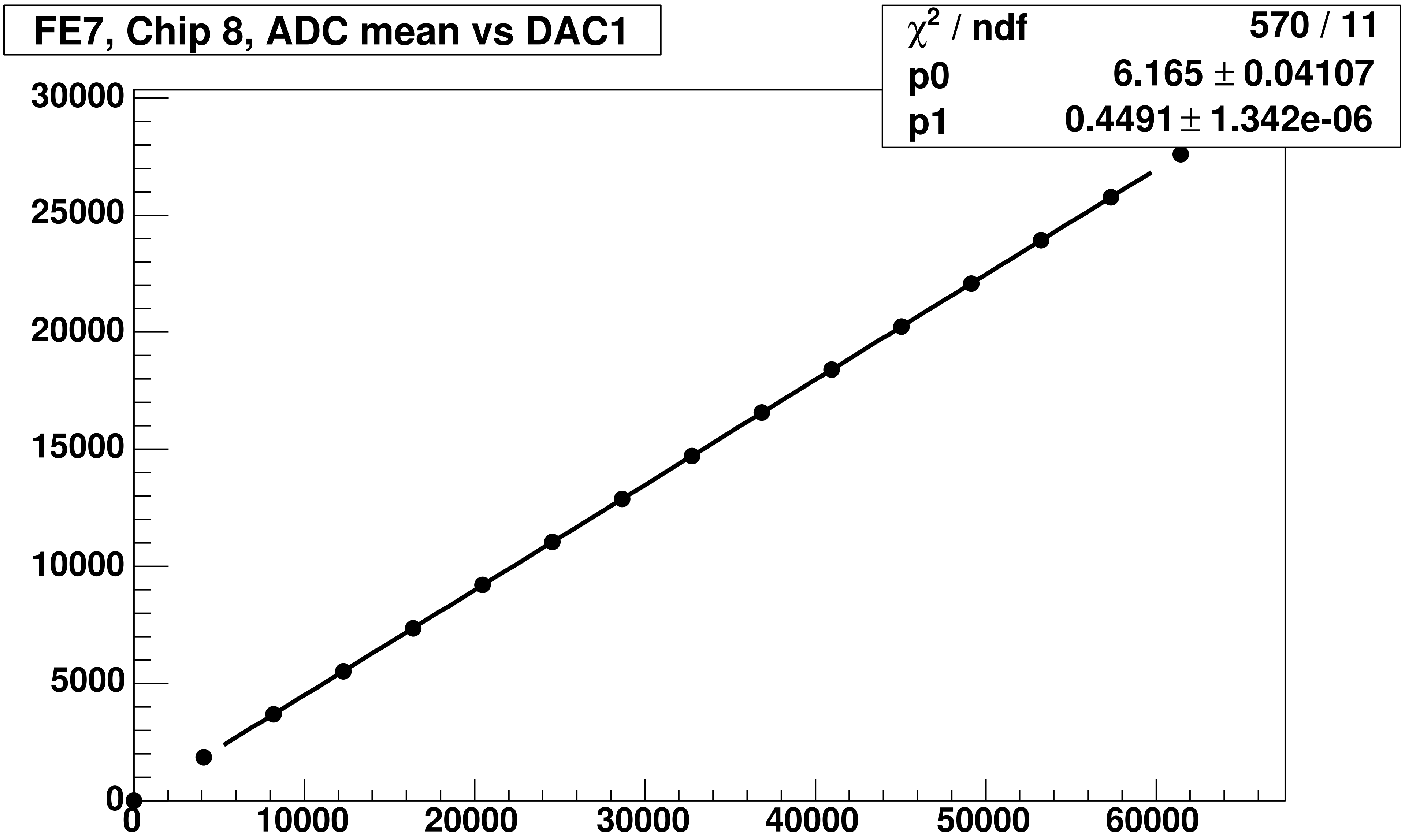

FE7, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000



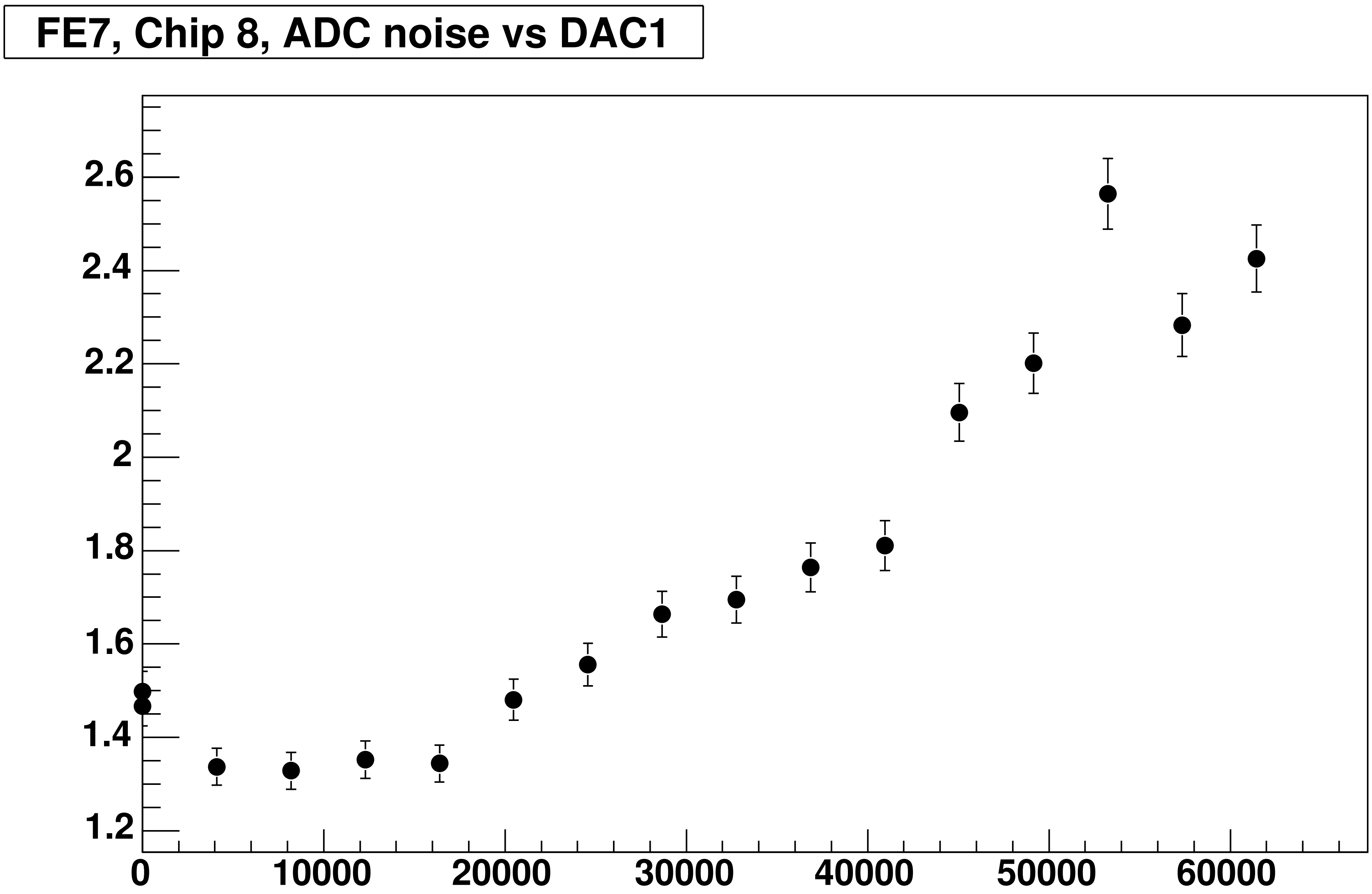
FE7, Chip 8, ADC mean vs DAC0
χ^2 / ndf 34.82 / 11
p0 6.975 ± 0.03907
p1 3.561e-06 ± 1.097e-06
7.4
7.3
7.2
7.1
7
6.9
6.8
0
10000
20000
30000
40000
50000
60000

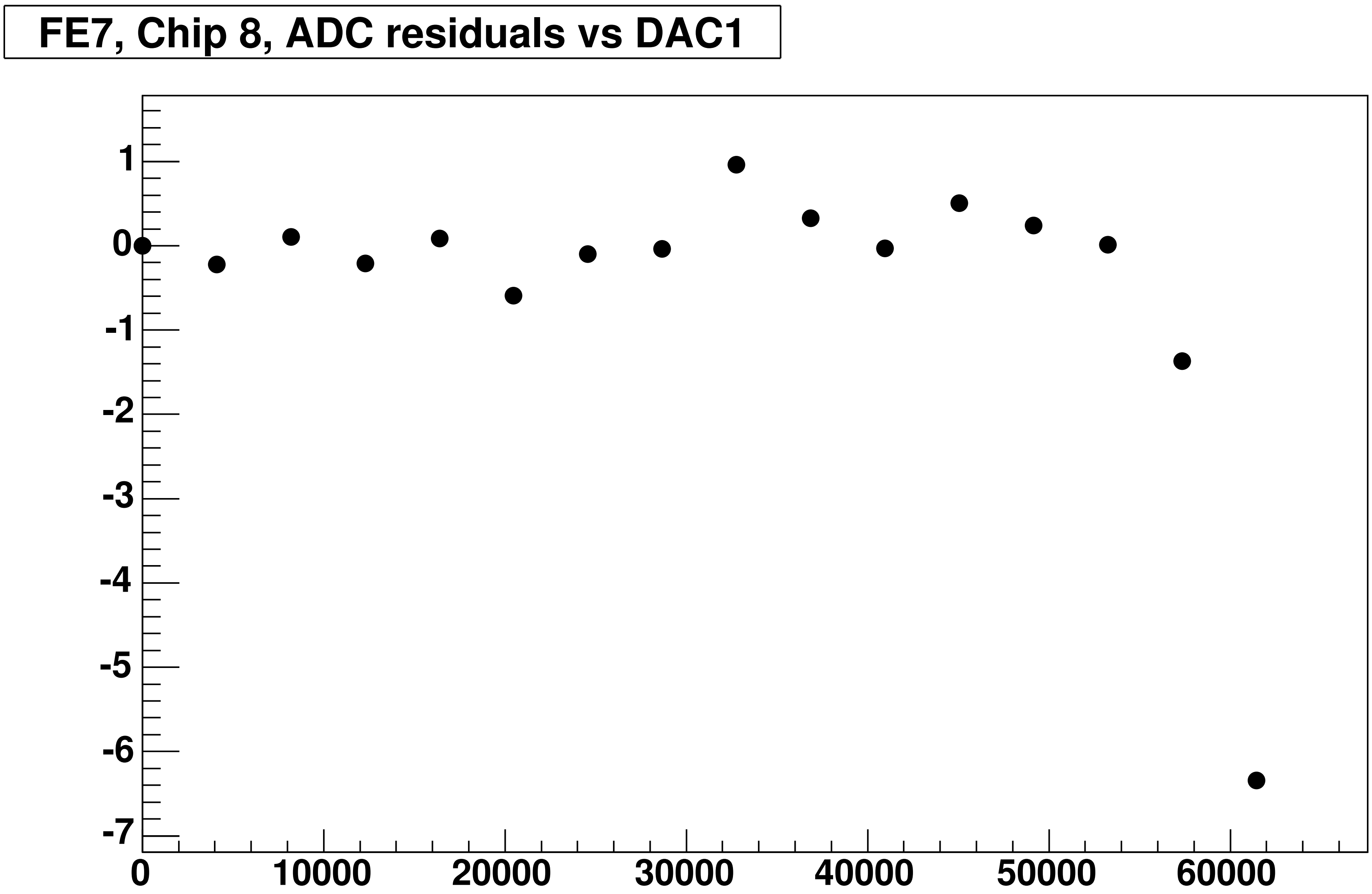

FE7, Chip 8, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

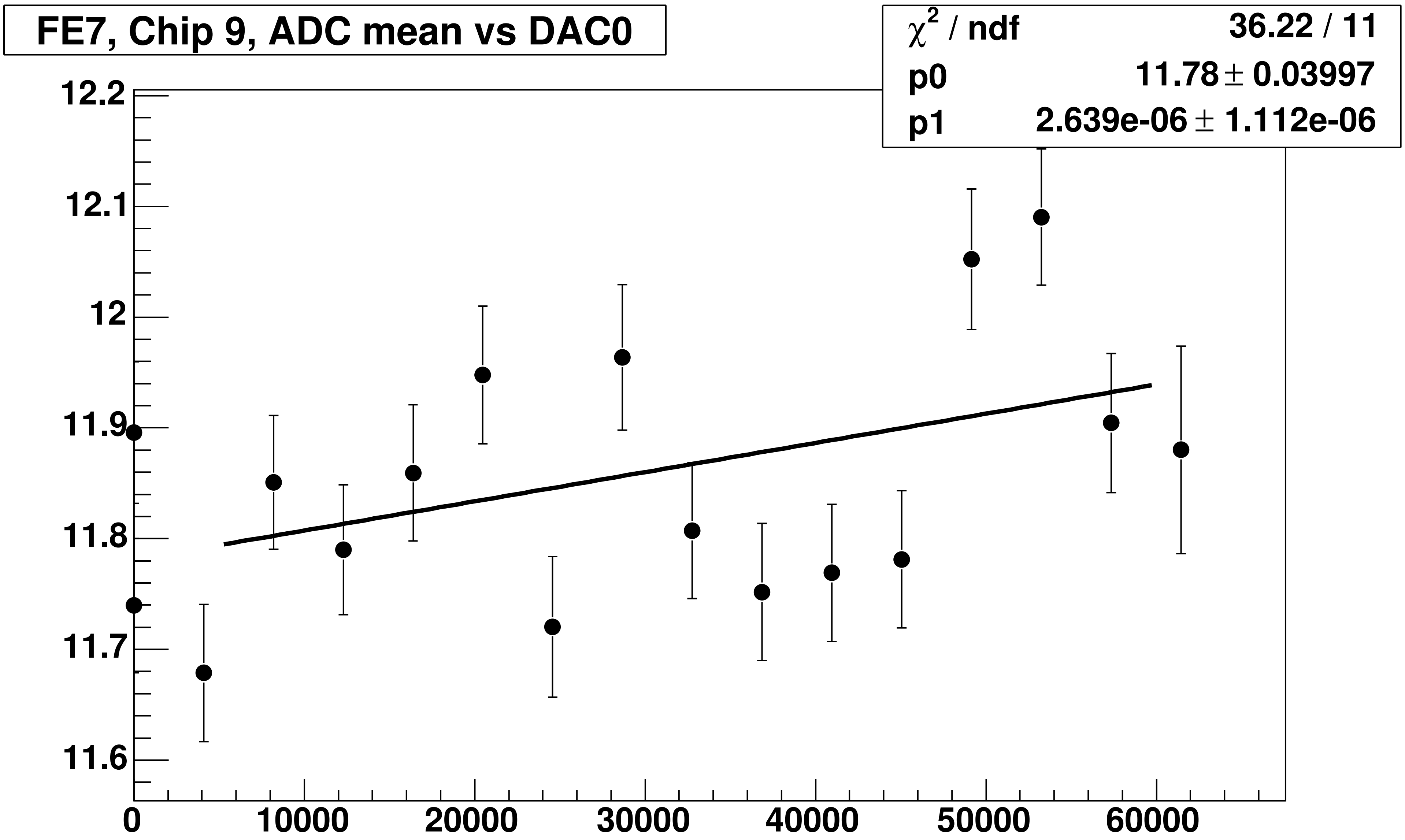

FE7, Chip 8, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

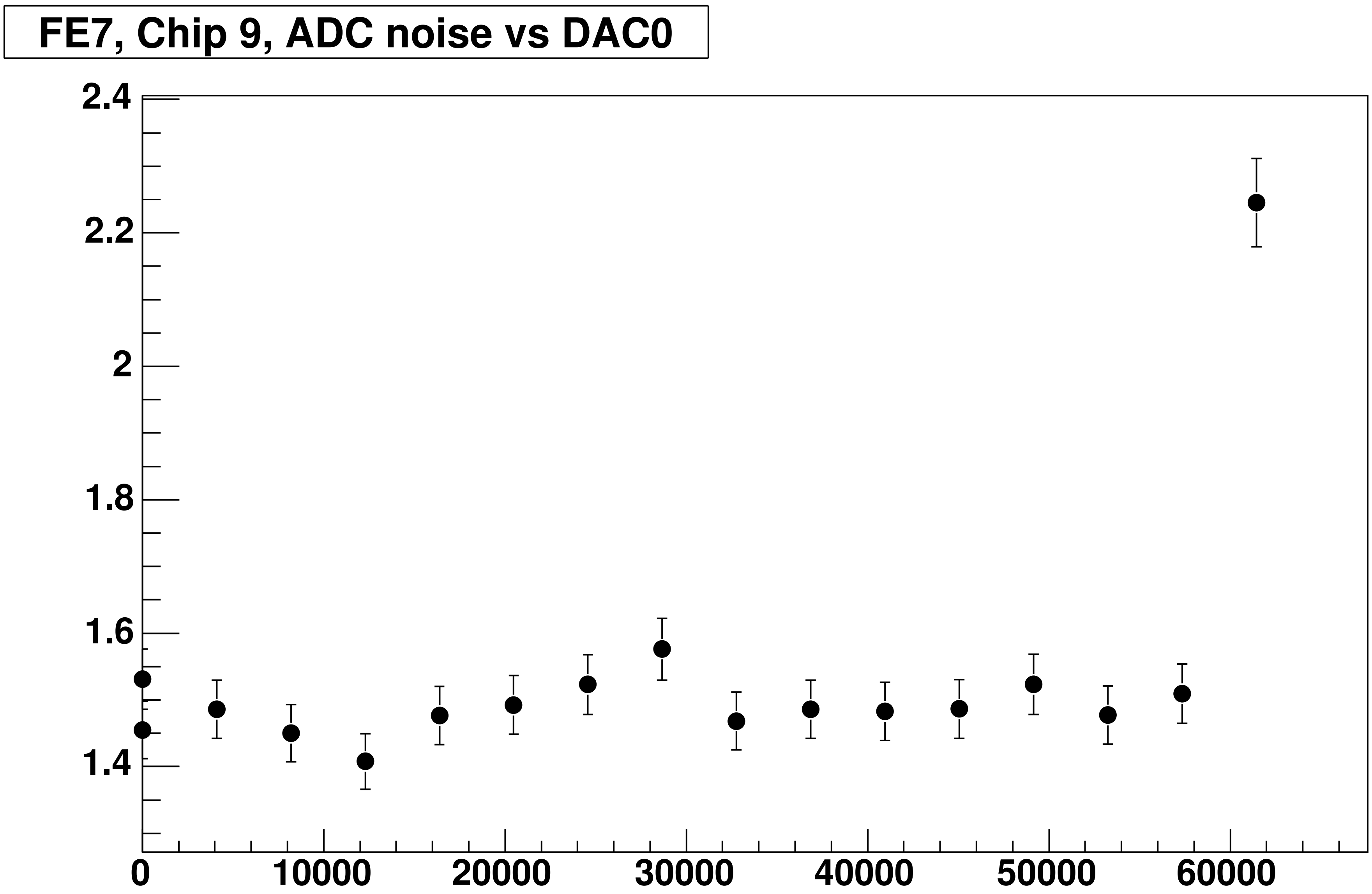


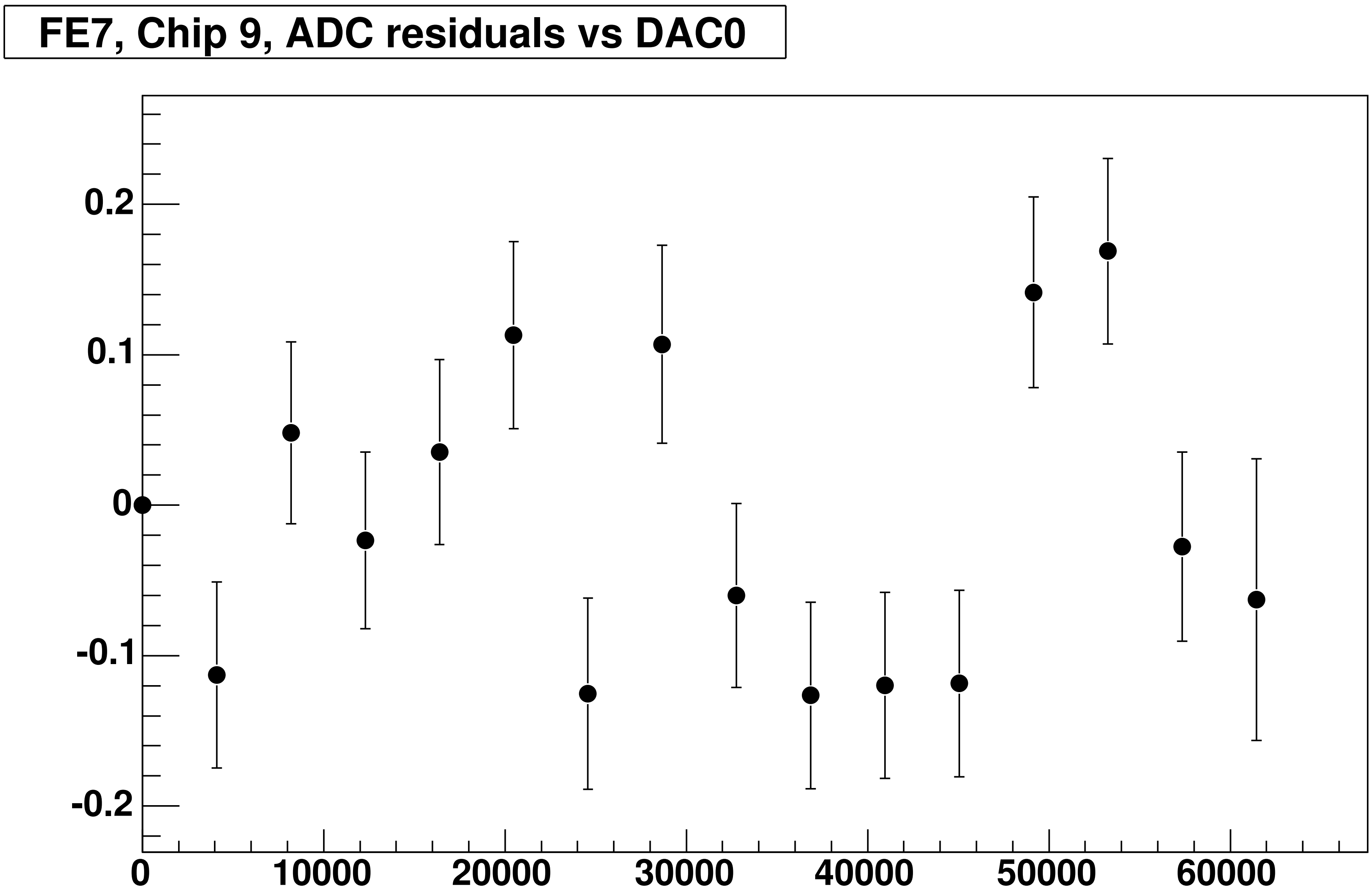
FE7, Chip 8, ADC mean vs DAC1
χ^2 / ndf 570 / 11
p0 6.165 ± 0.04107
p1 0.4491 ± 1.342e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

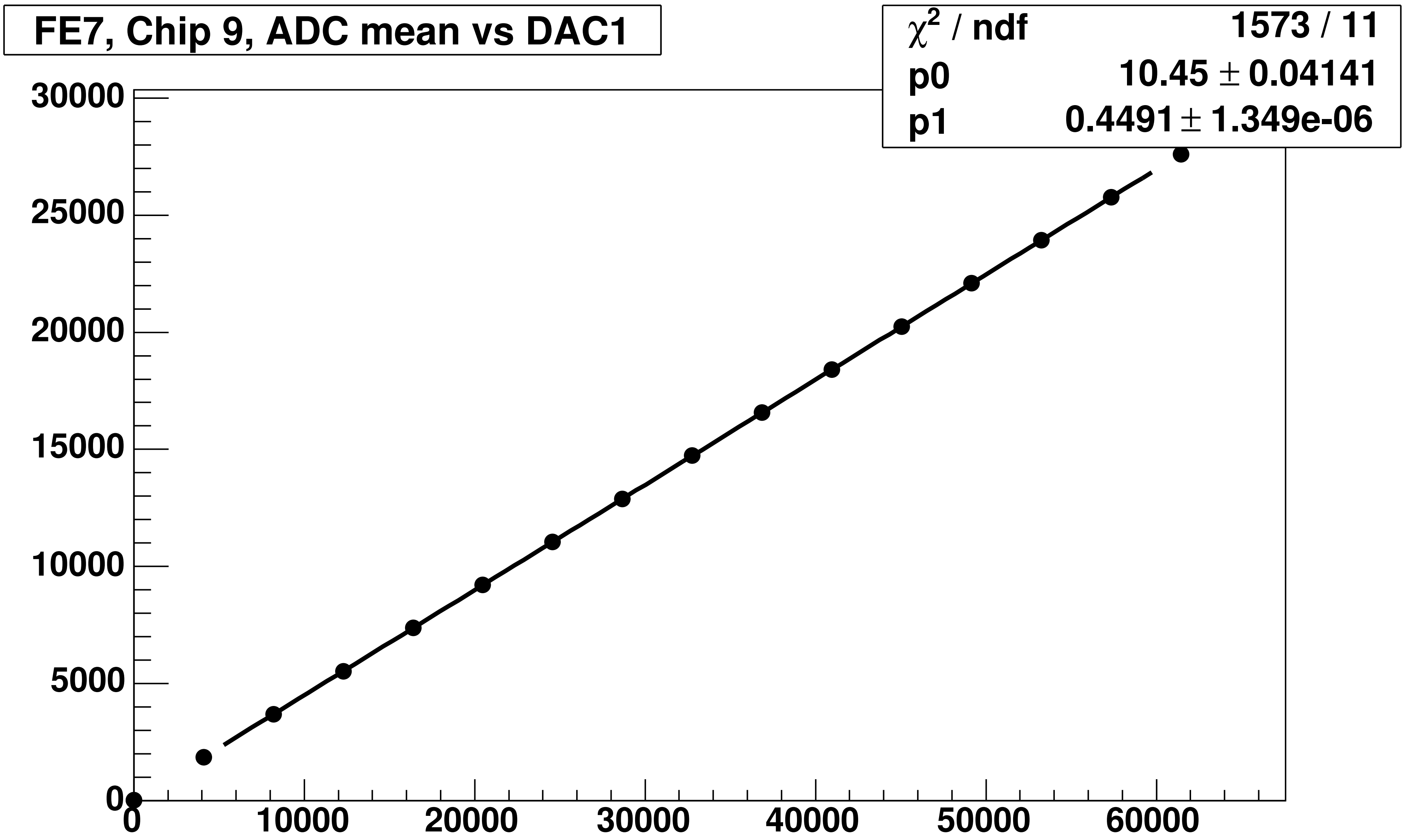

FE7, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

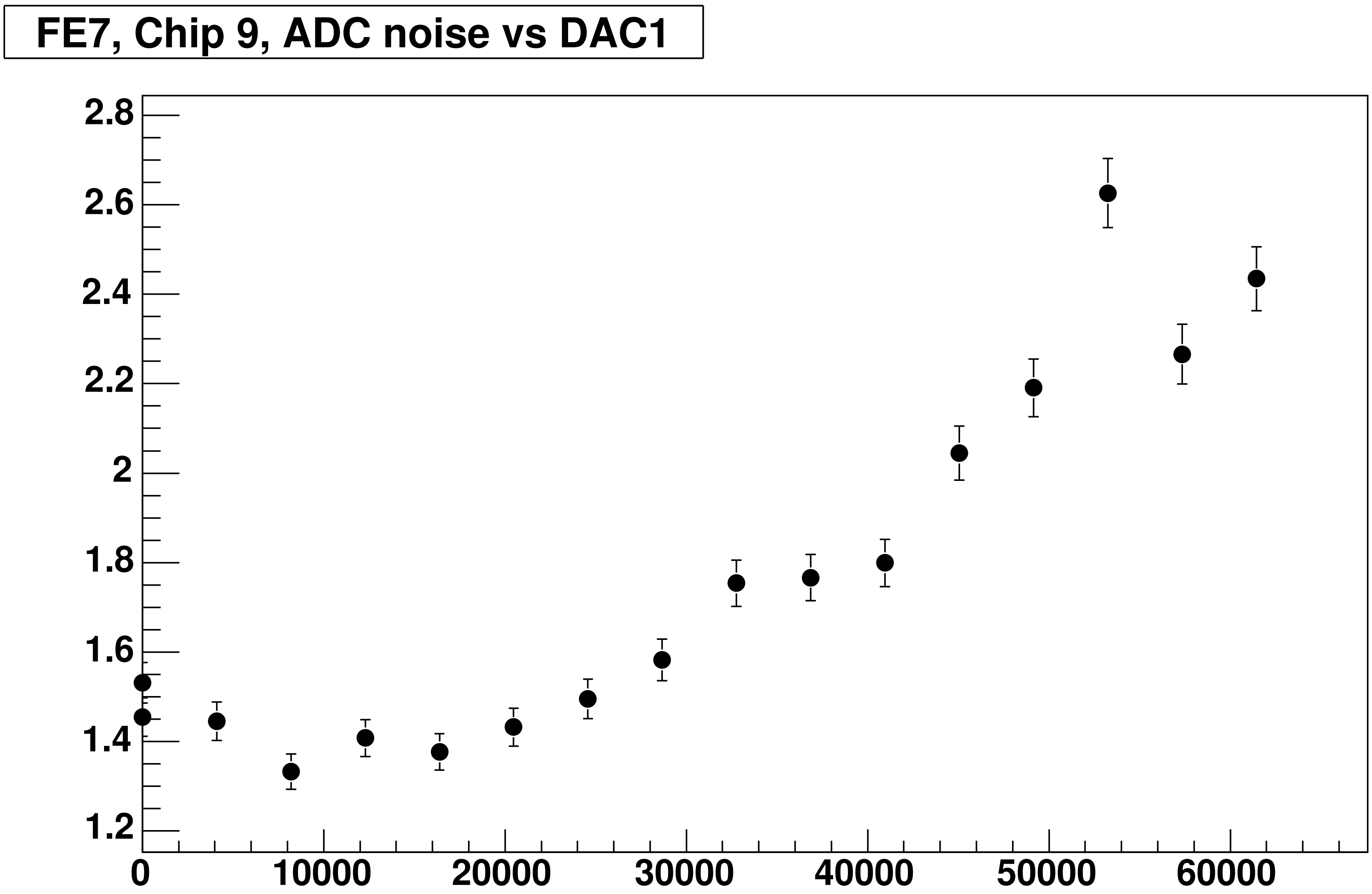

FE7, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

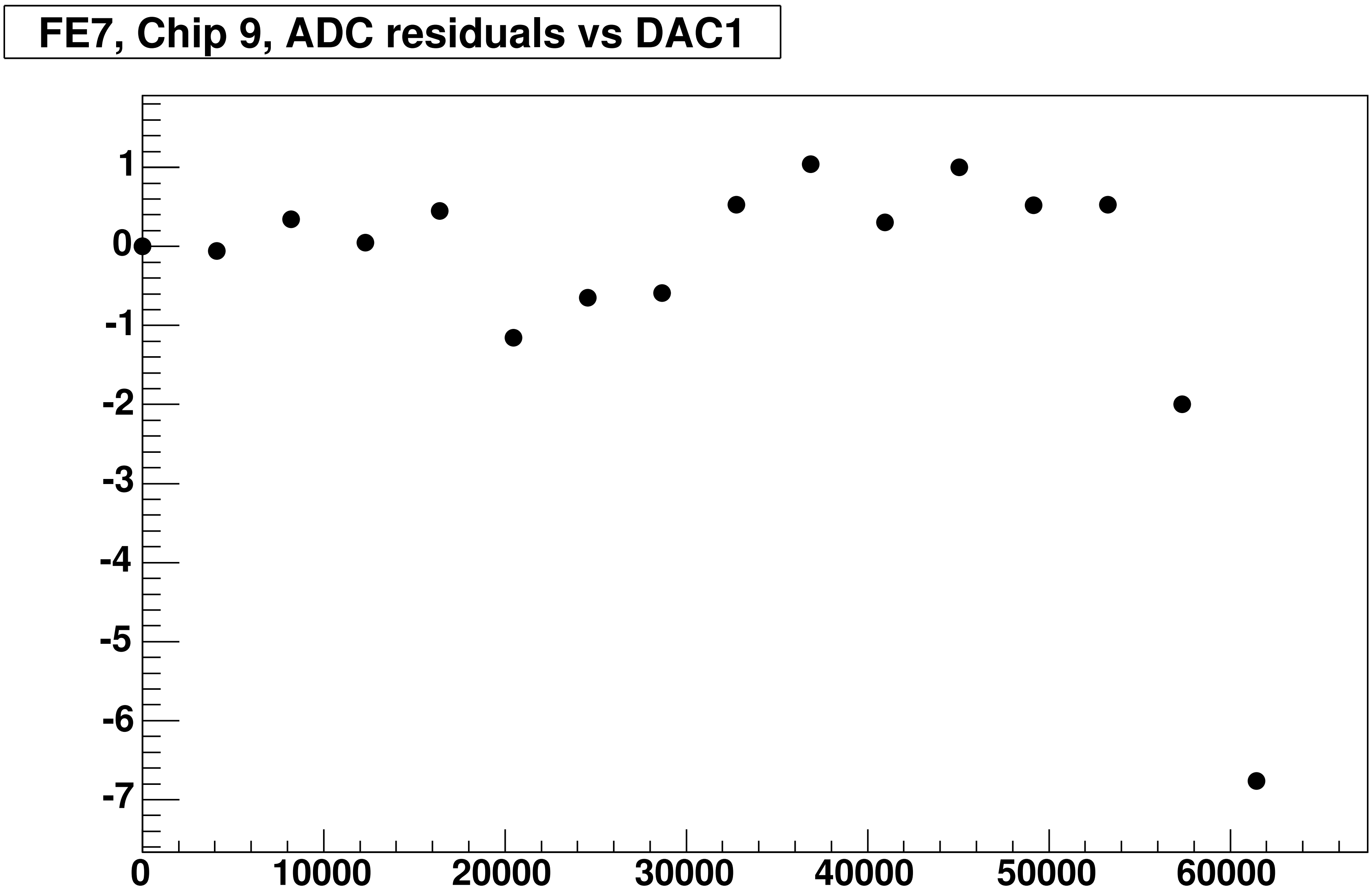

FE7, Chip 9, ADC mean vs DAC0
χ^2 / ndf 36.22 / 11
p0 11.78 ± 0.03997
p1 2.639e-06 ± 1.112e-06
12.2
12.1
12
11.9
11.8
11.7
11.6
0
10000
20000
30000
40000
50000
60000

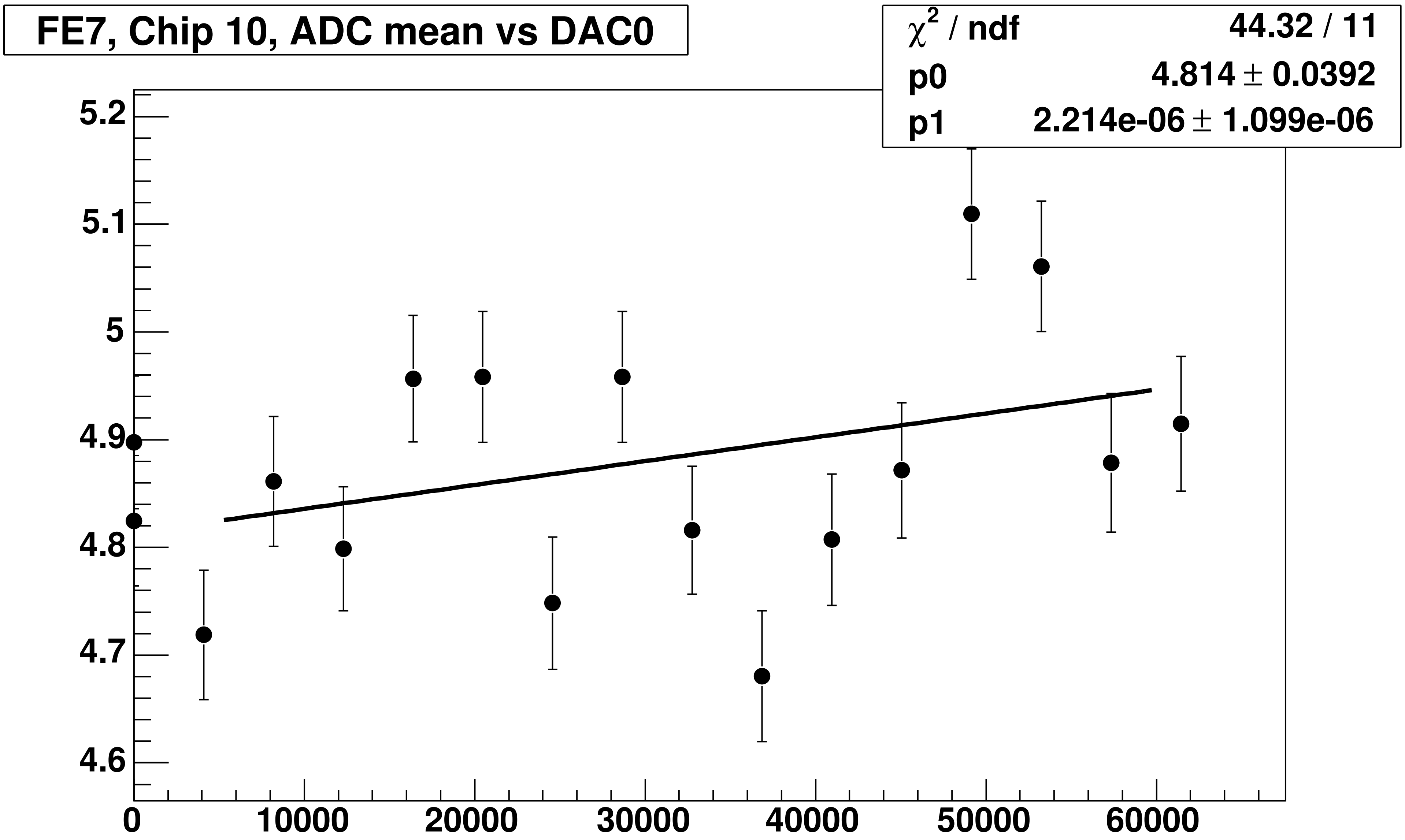

FE7, Chip 9, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

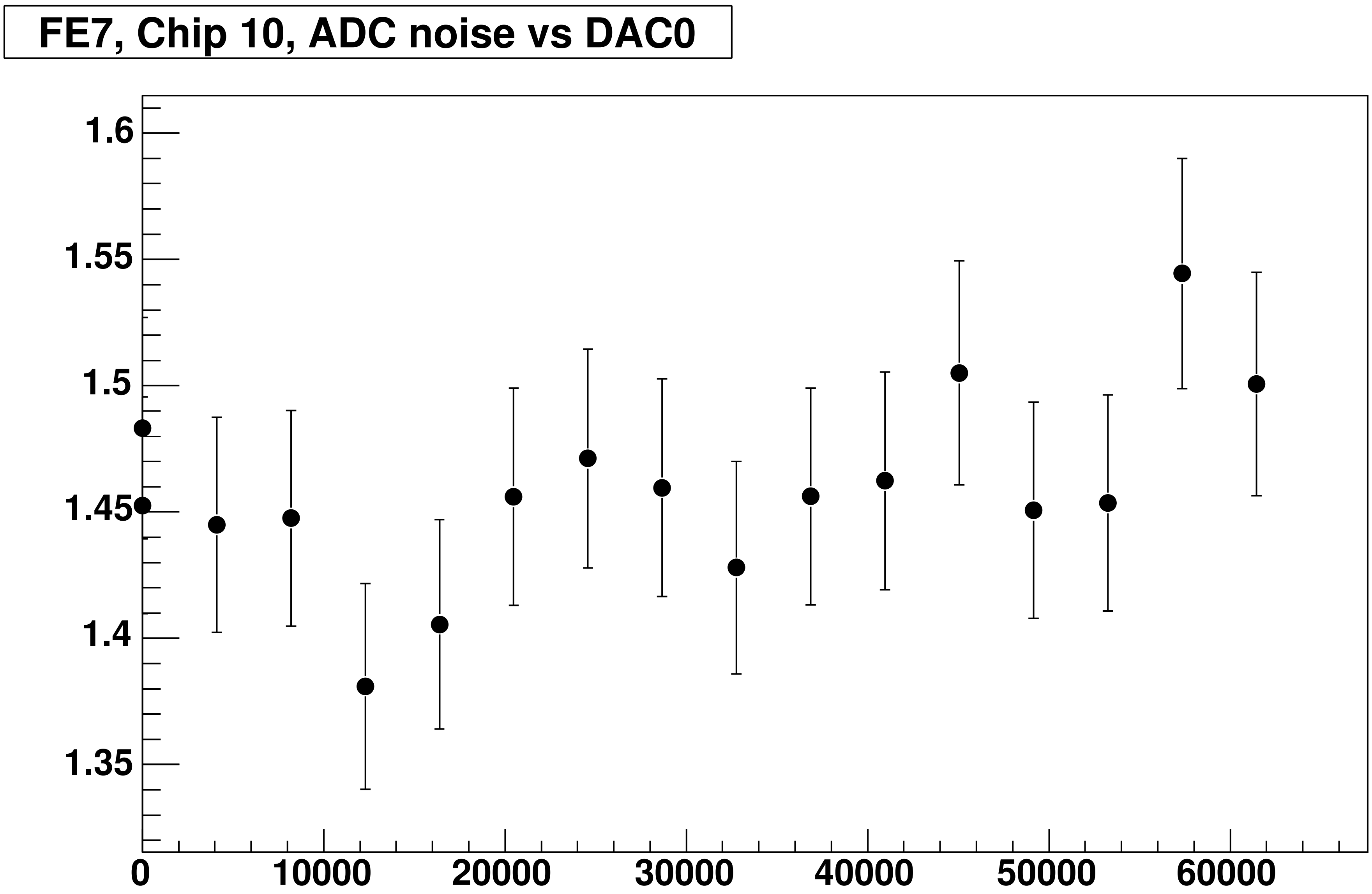

FE7, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

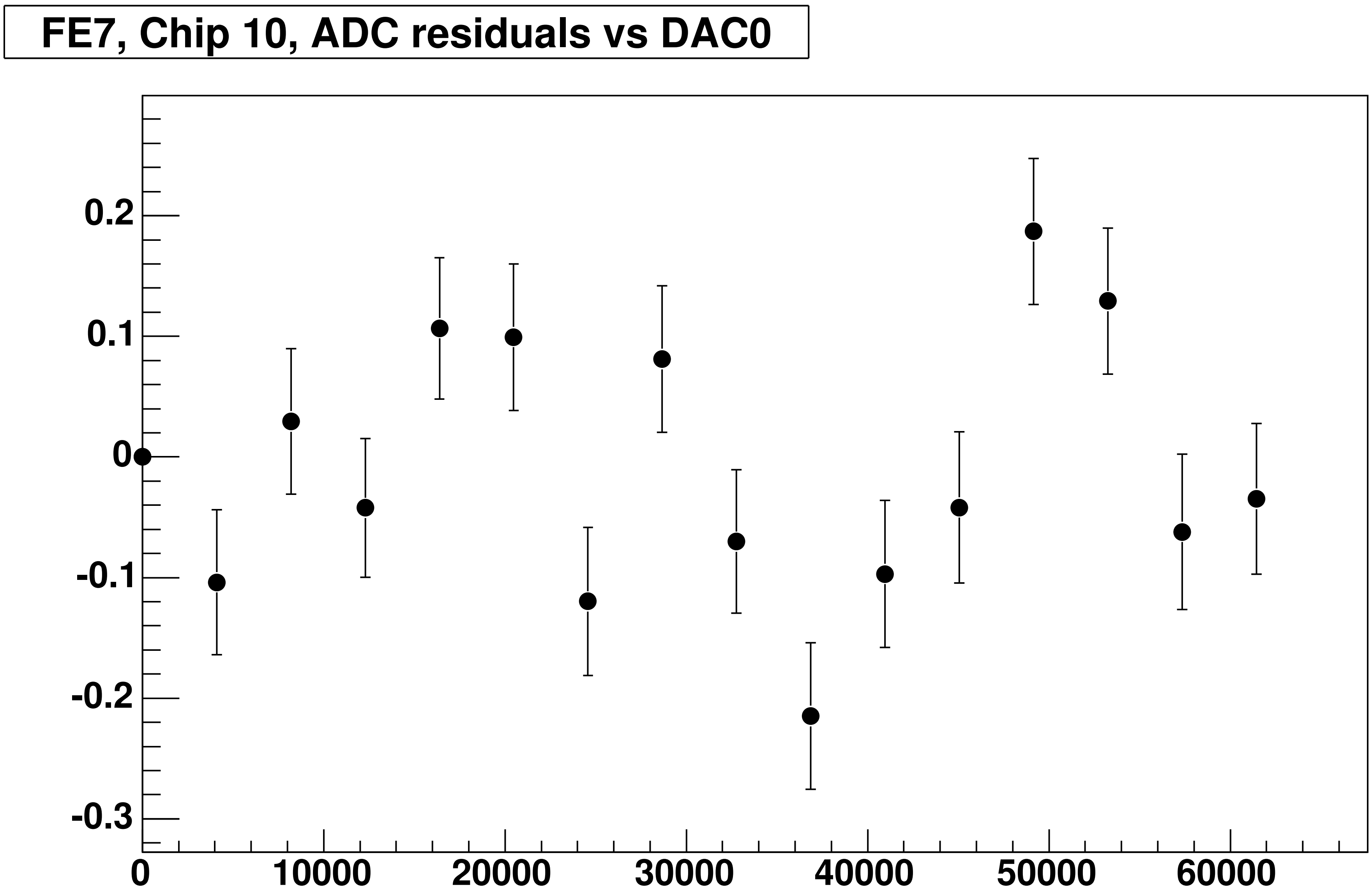

FE7, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1573 / 11
p0 10.45 ± 0.04141
p1 0.4491 ± 1.349e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

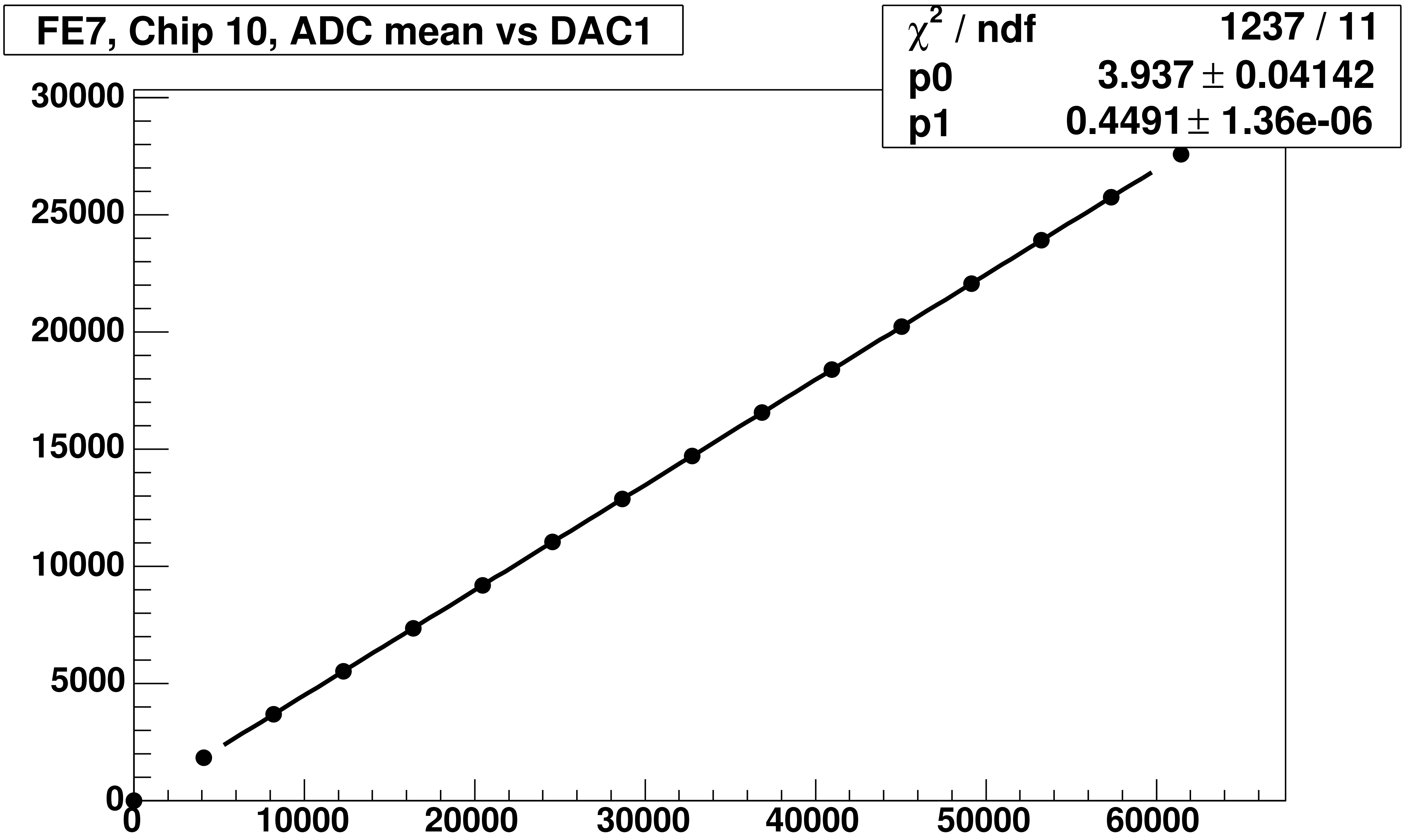

FE7, Chip 9, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

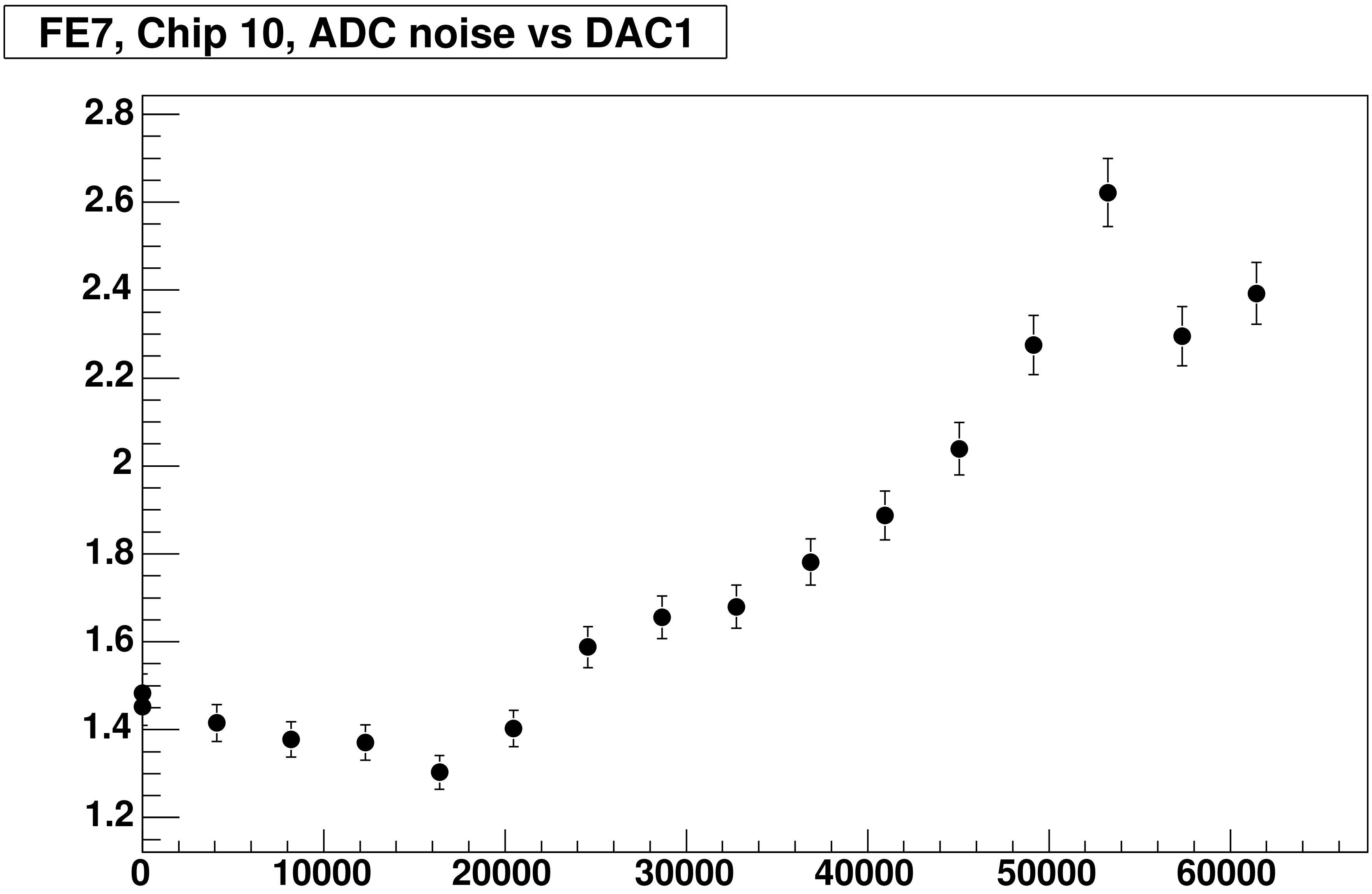

FE7, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

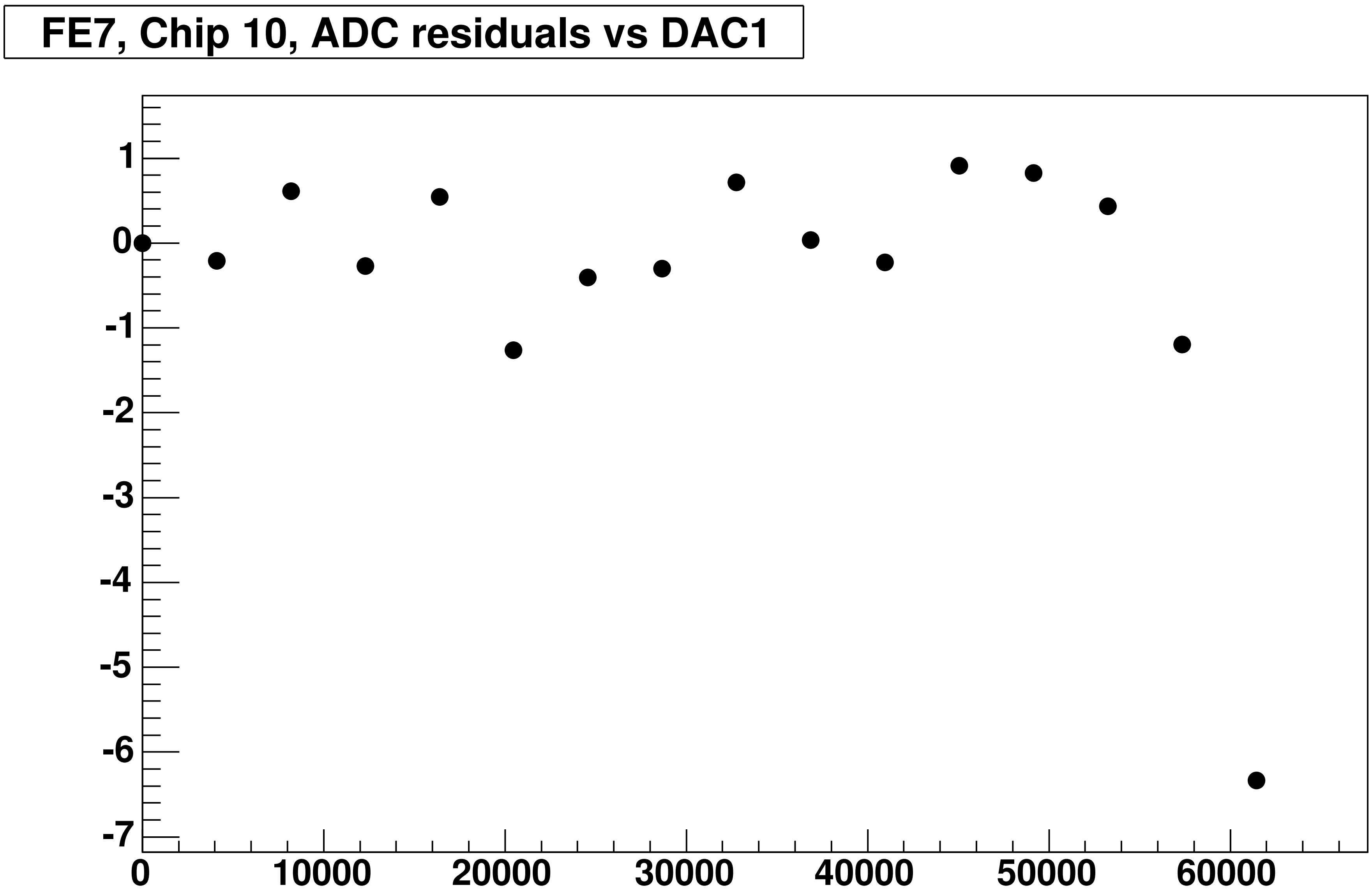

FE7, Chip 10, ADC mean vs DAC0
χ^2 / ndf 44.32 / 11
p0 4.814 ± 0.0392
p1 2.214e-06 ± 1.099e-06
5.2
5.1
5
4.9
4.8
4.7
4.6
0
10000
20000
30000
40000
50000
60000

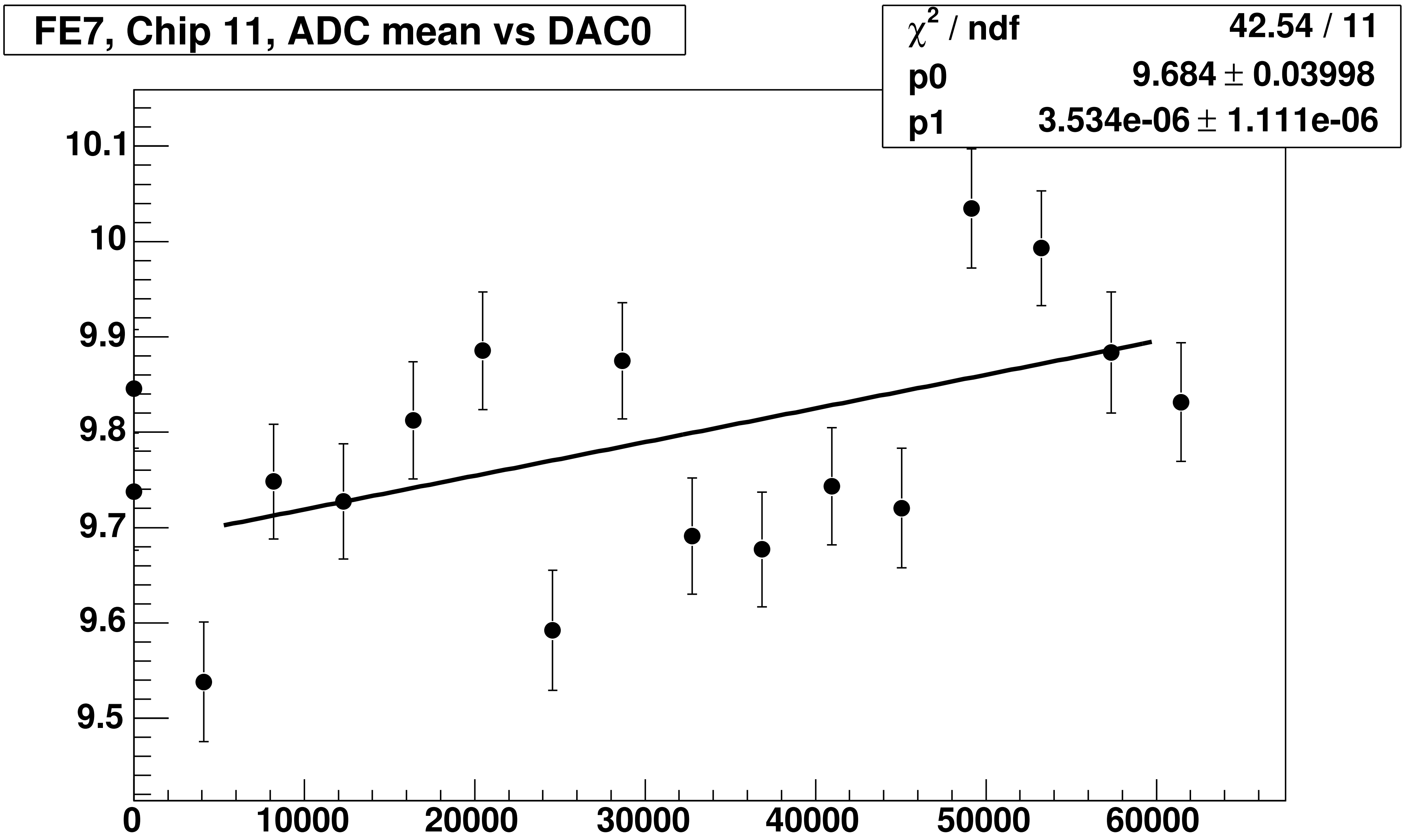

FE7, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

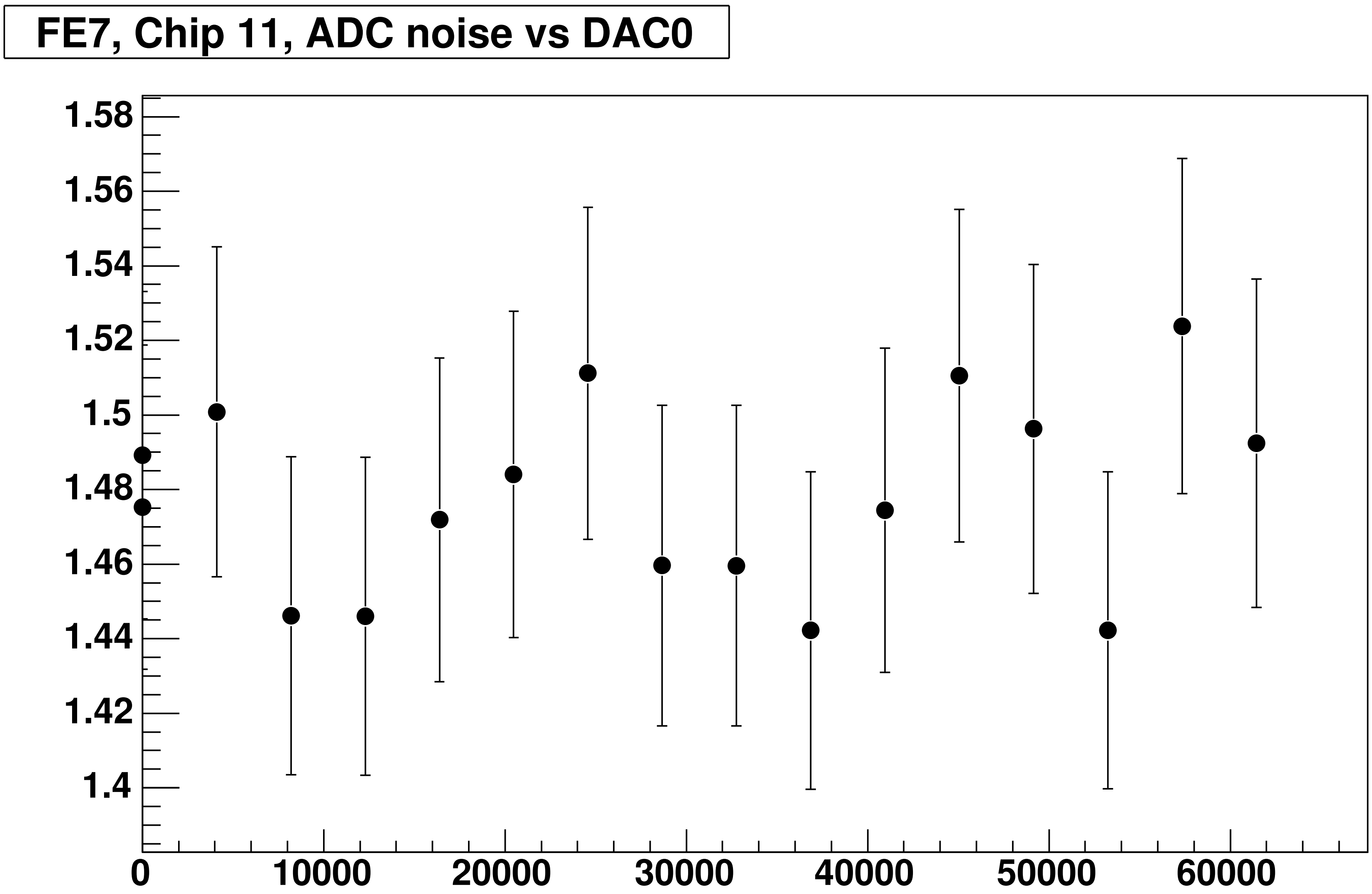

FE7, Chip 10, ADC mean vs DAC1
χ² / ndf 1237 / 11
p0 3.937 ± 0.04142
p1 0.4491 ± 1.36e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

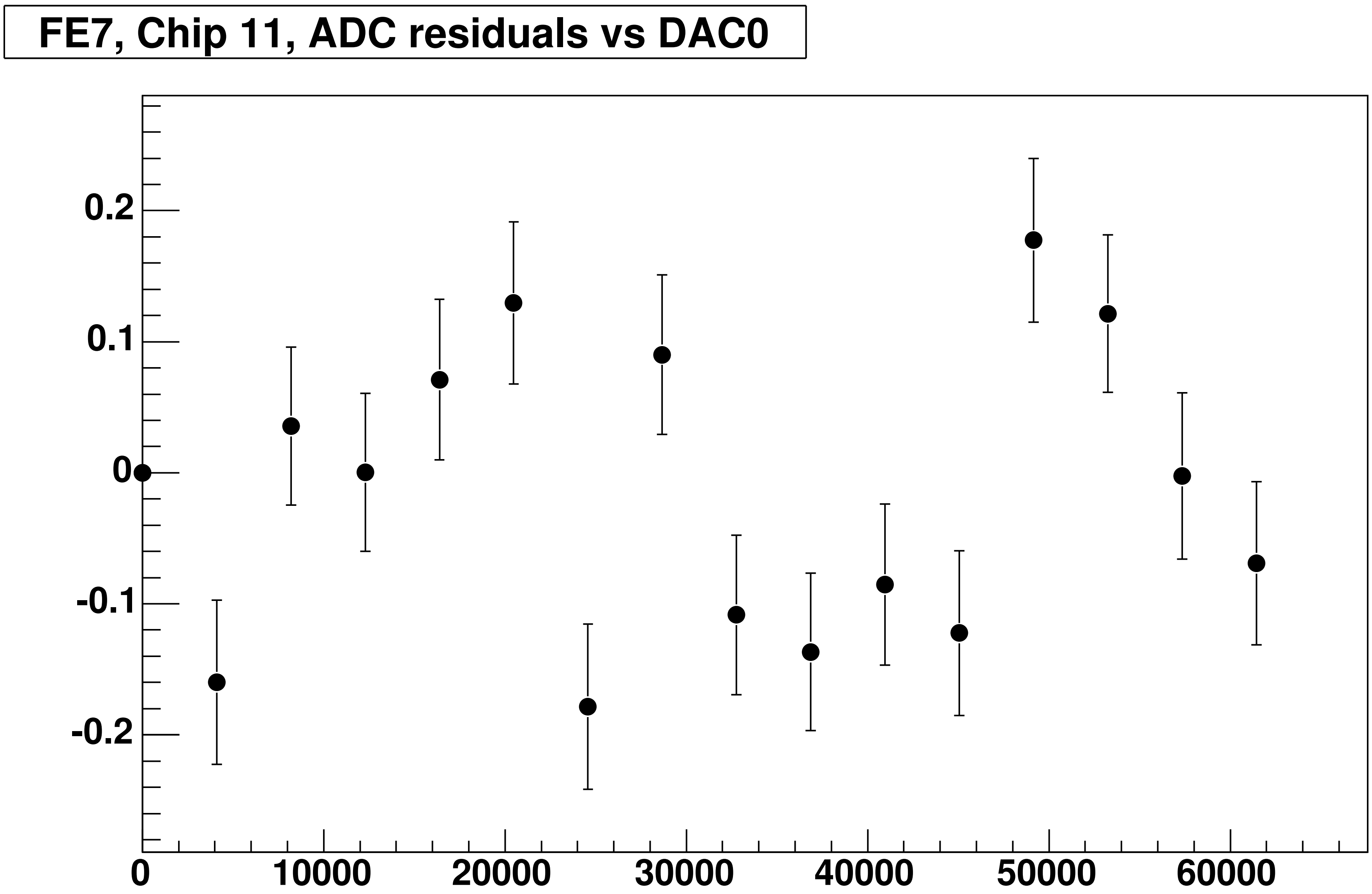

FE7, Chip 10, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

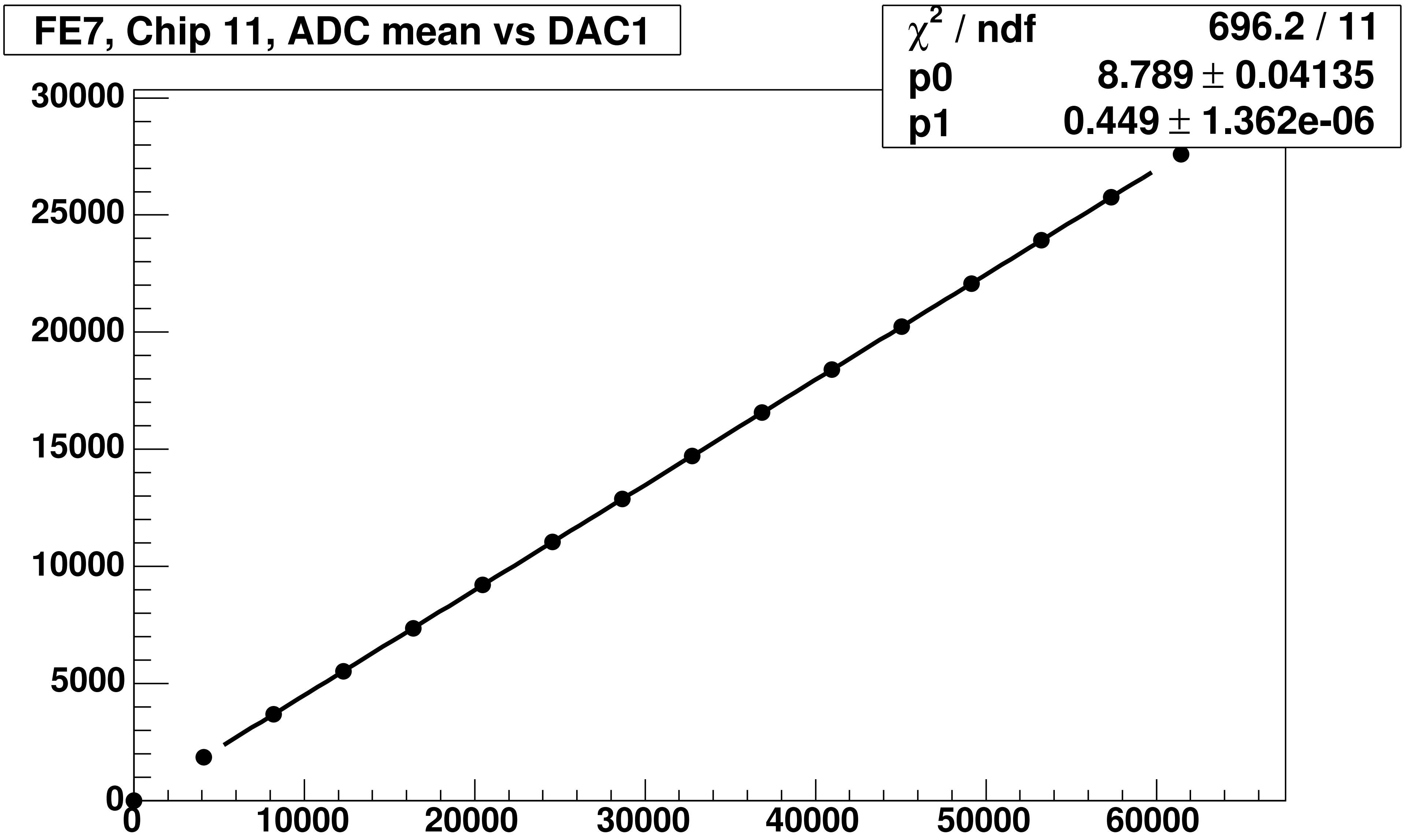

FE7, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

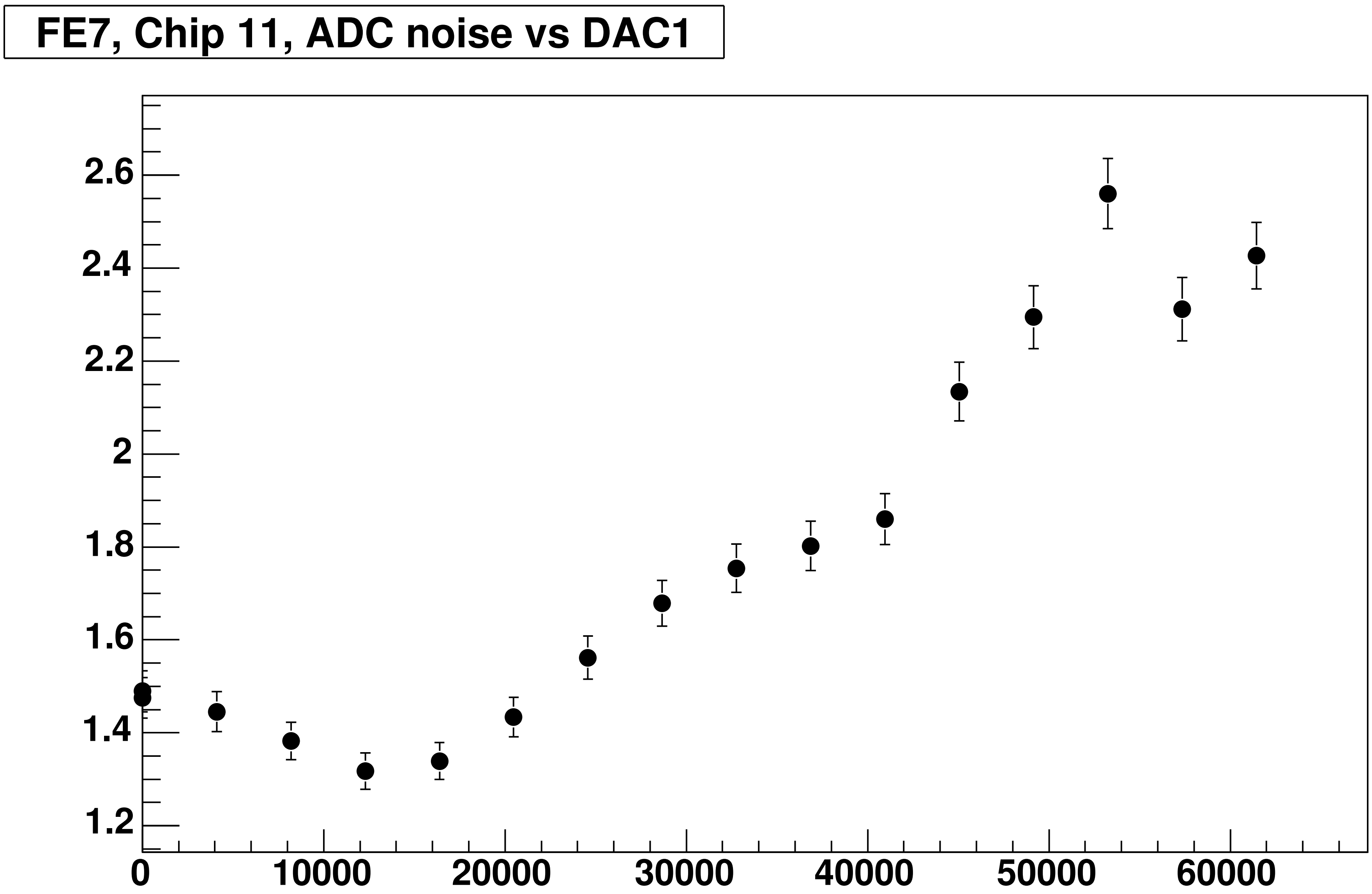


FE7, Chip 11, ADC mean vs DAC0
χ^2 / ndf 42.54 / 11
p0 9.684 ± 0.03998
p1 3.534e-06 ± 1.111e-06
10.1
10
9.9
9.8
9.7
9.6
9.5
0
10000
20000
30000
40000
50000
60000

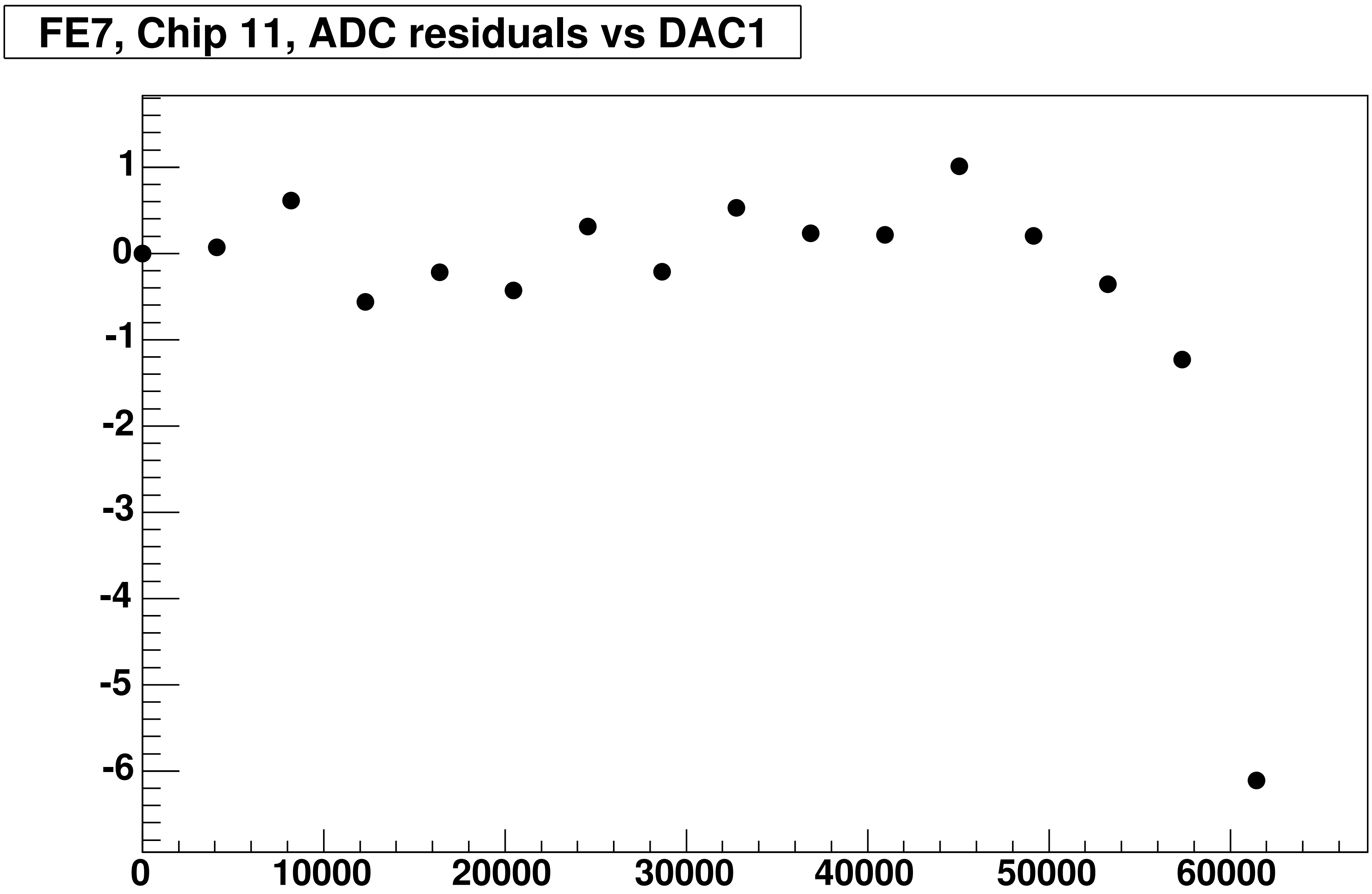

FE7, Chip 11, ADC noise vs DAC0
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
0
10000
20000
30000
40000
50000
60000

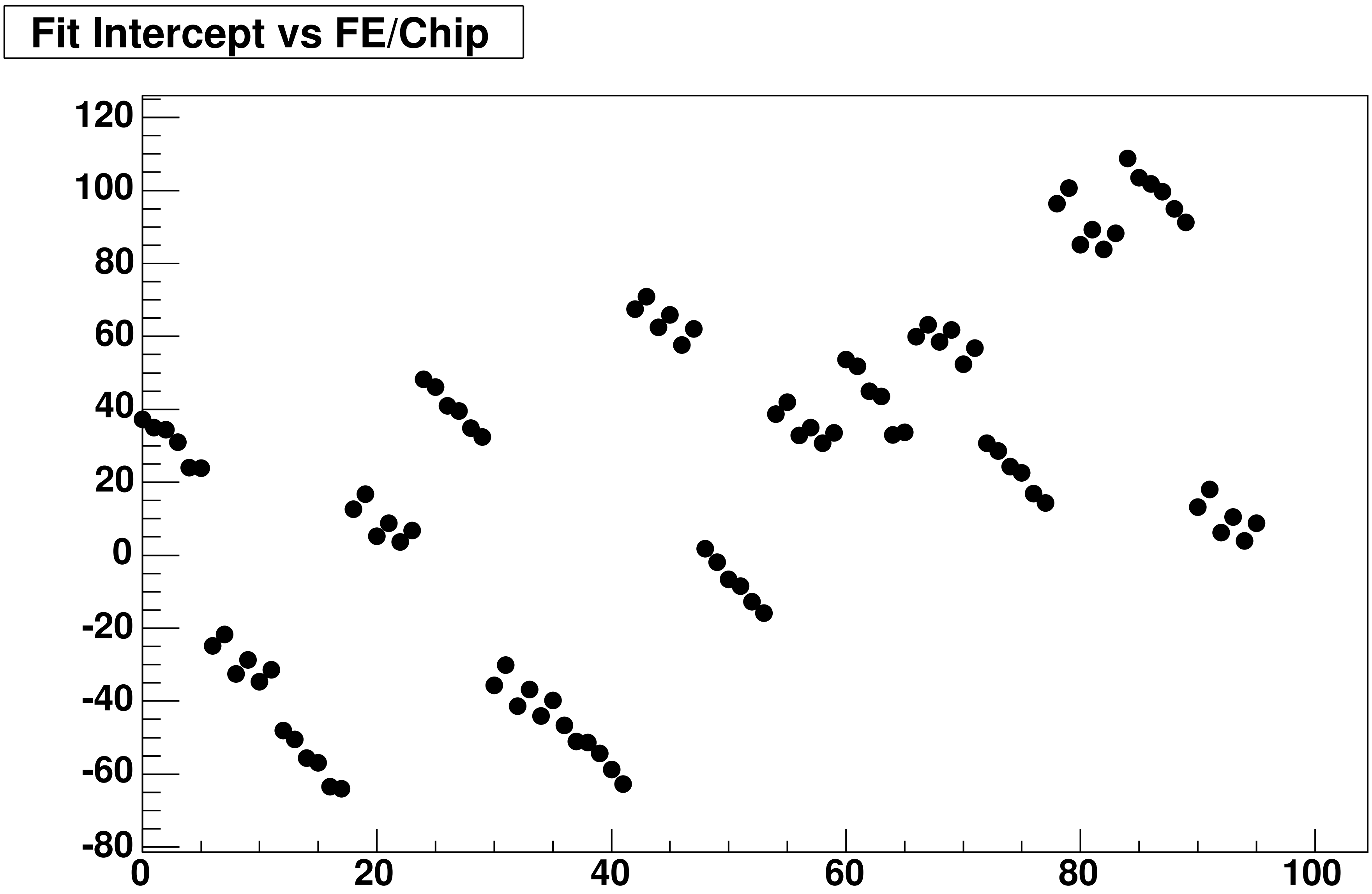

FE7, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

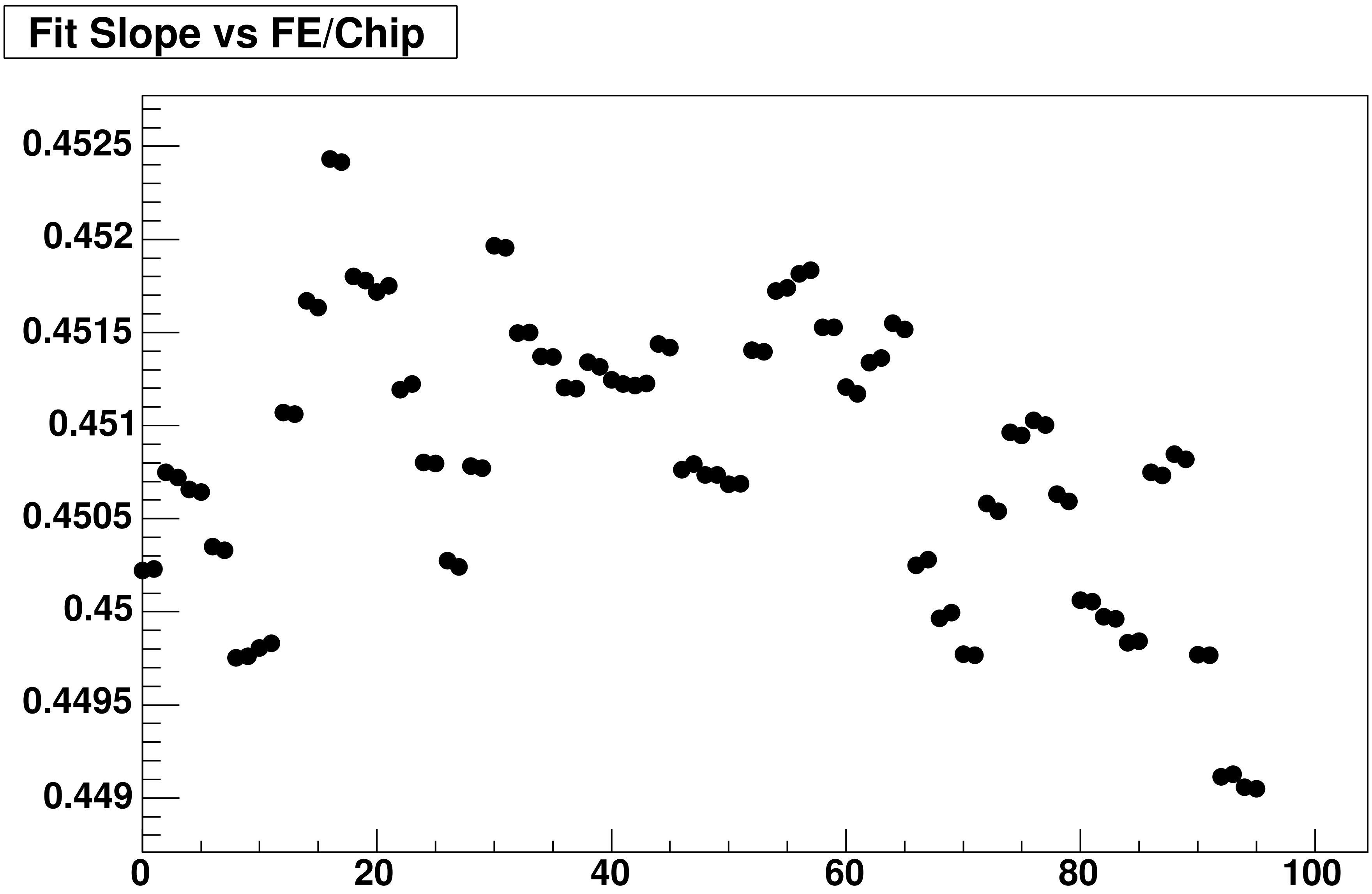

FE7, Chip 11, ADC mean vs DAC1
χ^2 / ndf 696.2 / 11
p0 8.789 ± 0.04135
p1 0.449 ± 1.362e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



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


FE7, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


Fit Intercept vs FE/Chip
120
100
80
60
40
20
0
-20
-40
-60
-80
0
20
40
60
80
100


Fit Slope vs FE/Chip
0.4525
0.452
0.4515
0.451
0.4505
0.45
0.4495
0.449
0
20
40
60
80
100