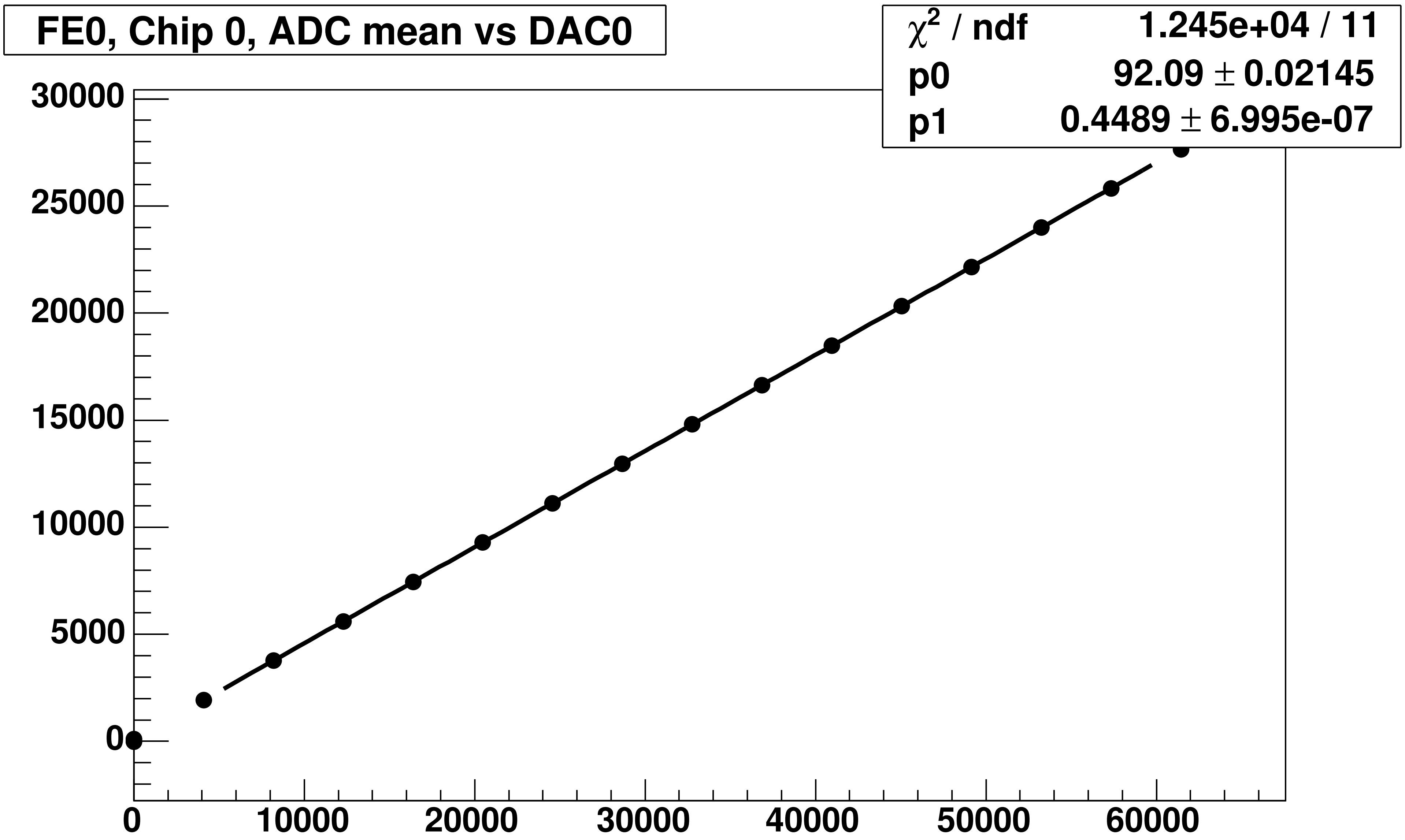
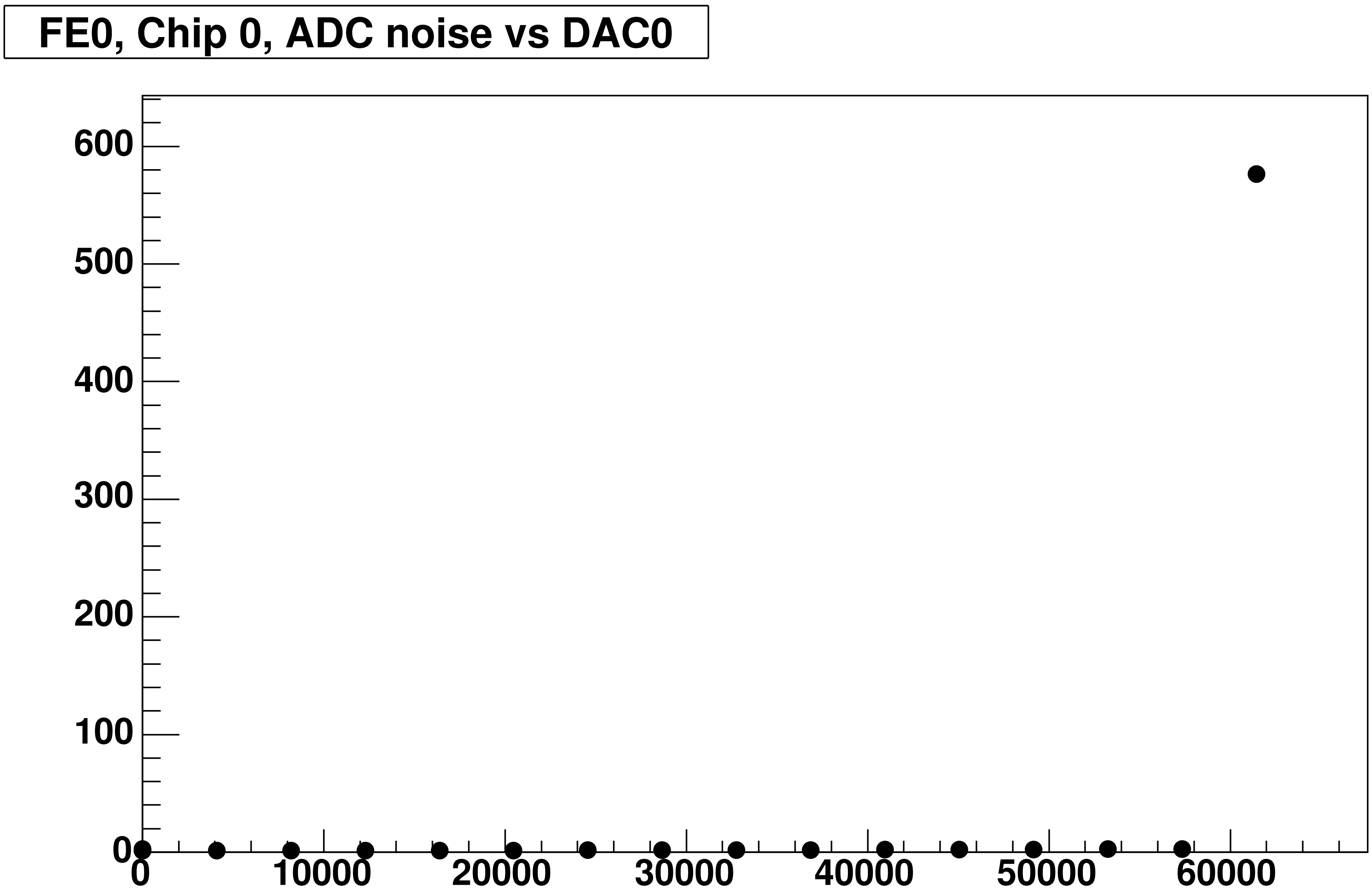
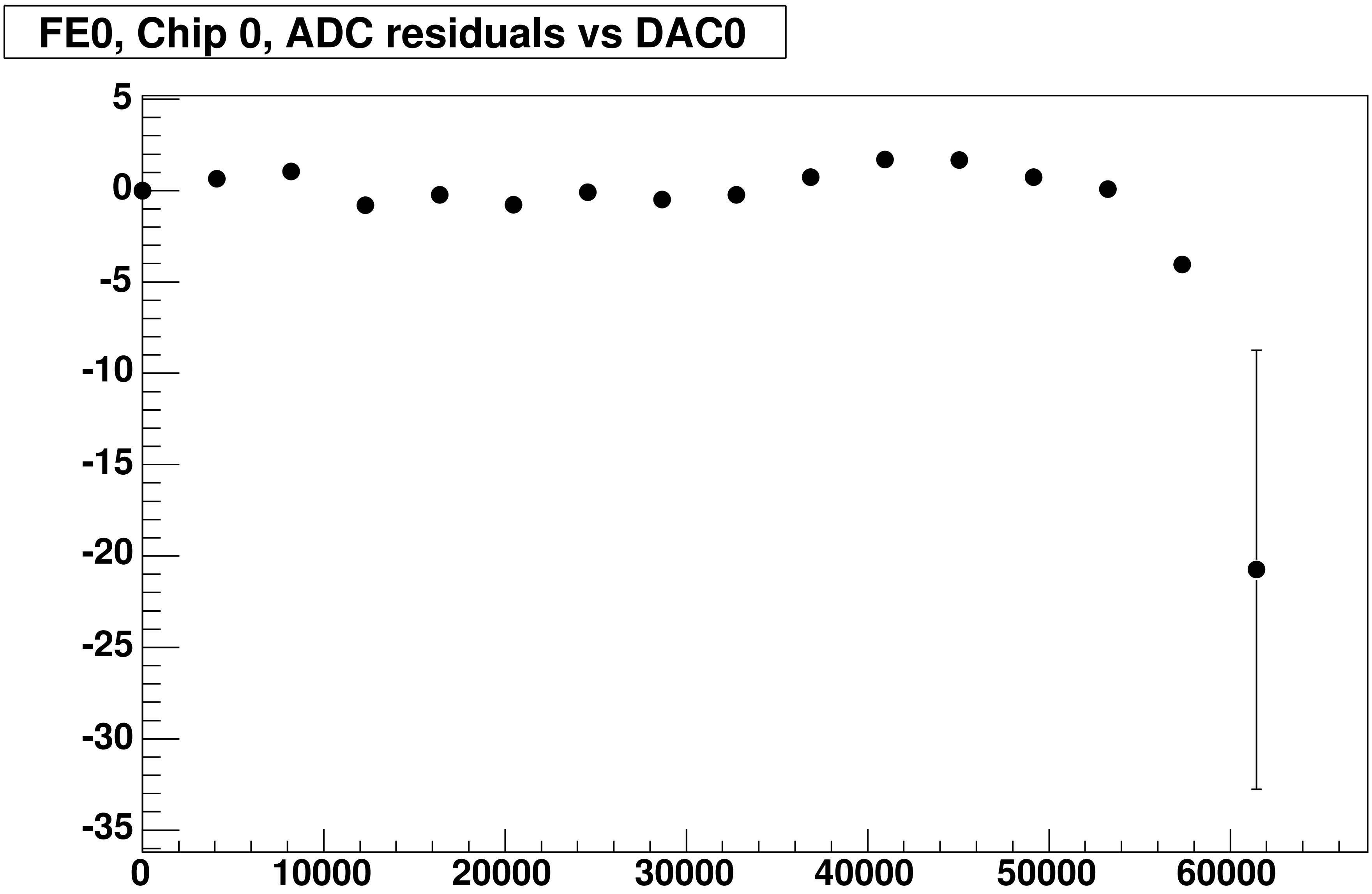
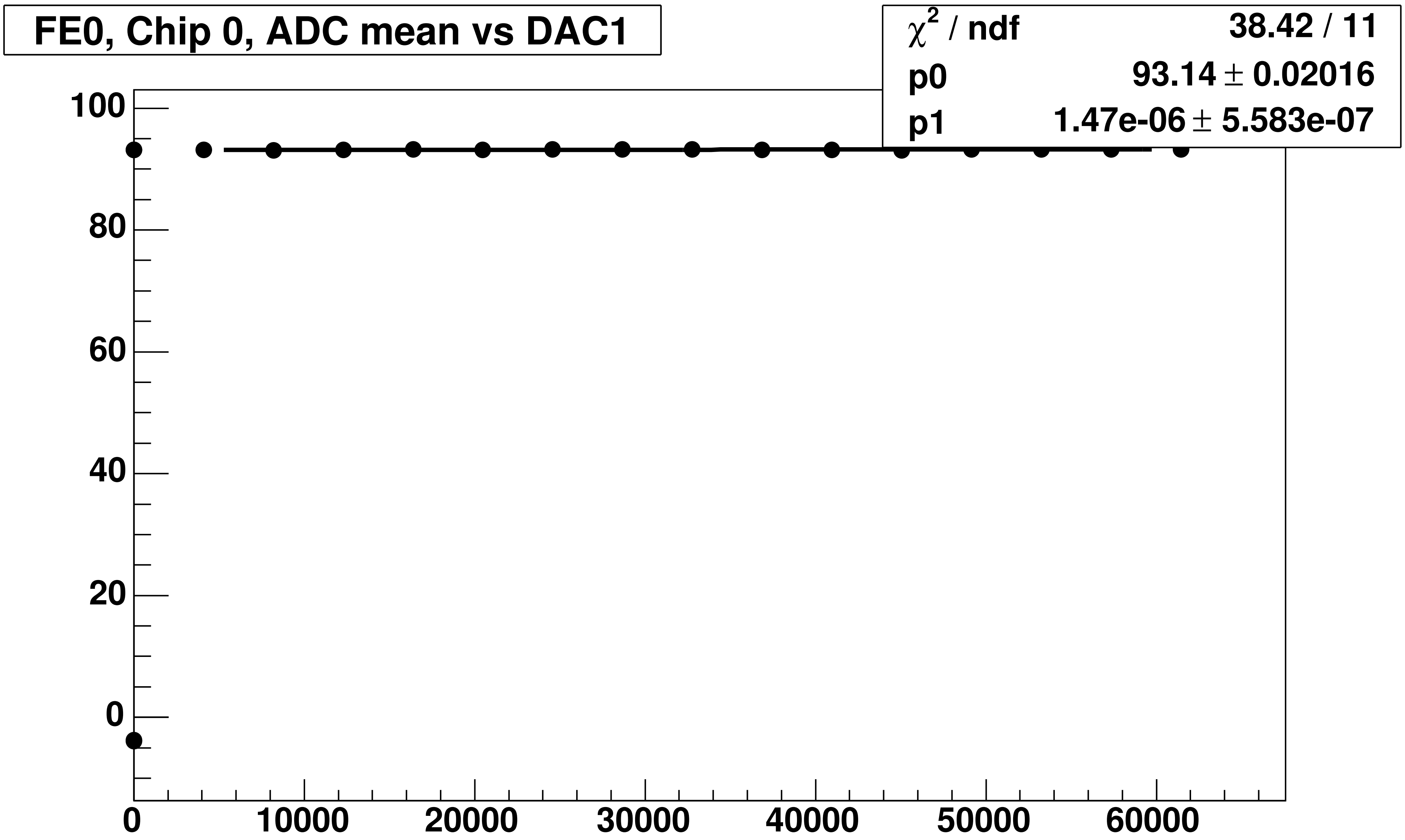

FE0, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1.245e+04 / 11
p0 92.09 ± 0.02145
p1 0.4489 ± 6.995e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

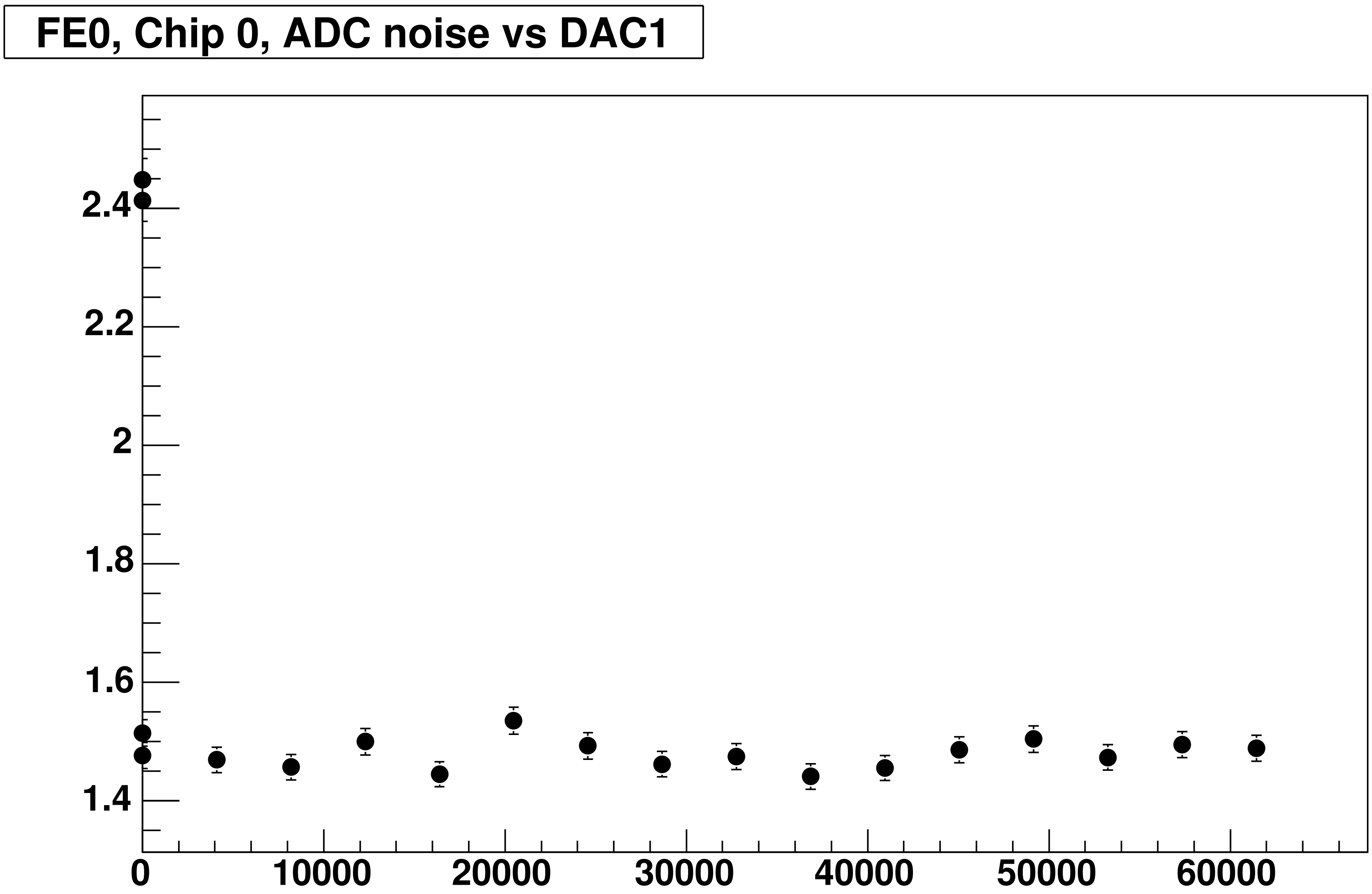


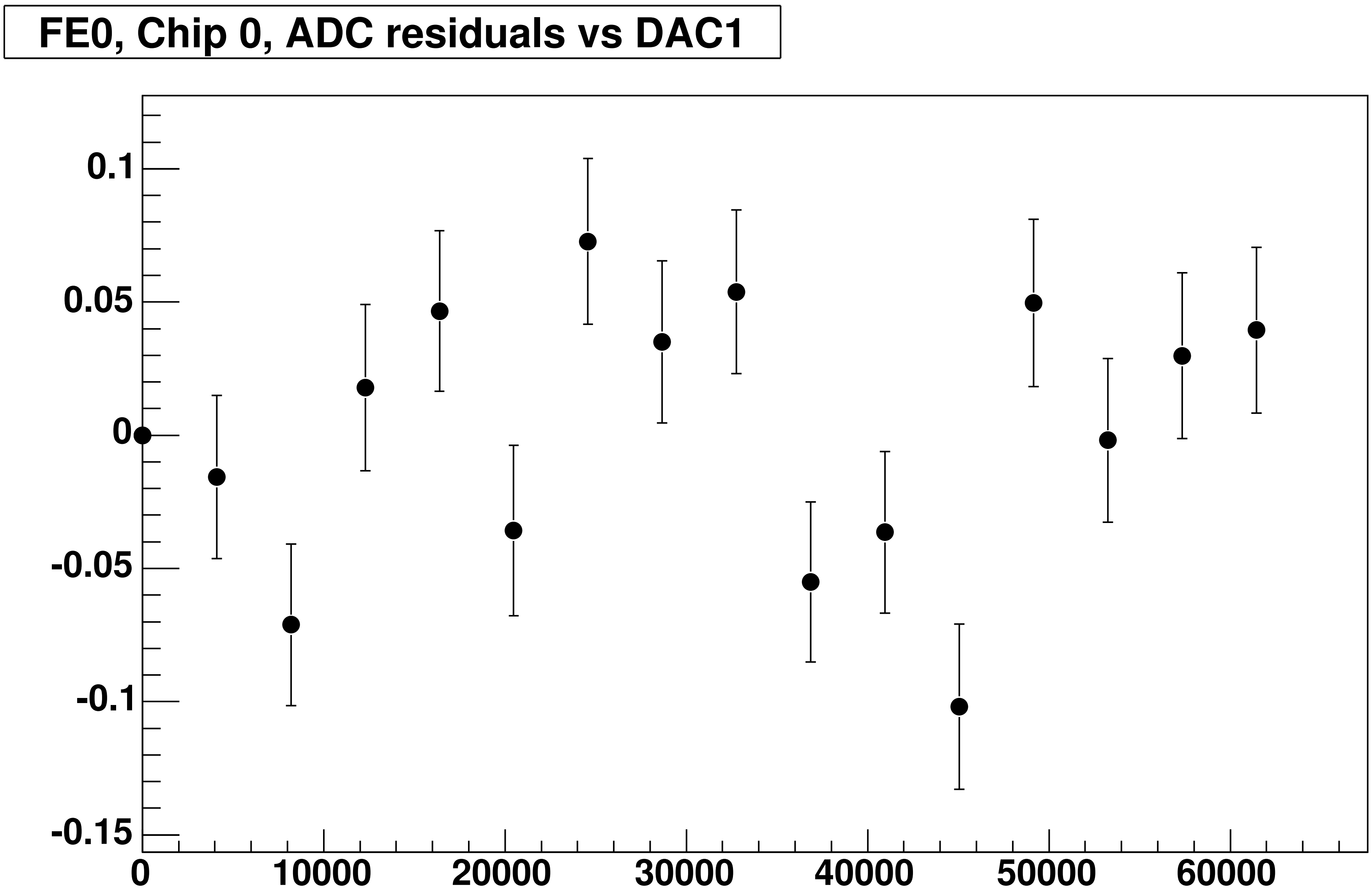
FE0, Chip 0, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000



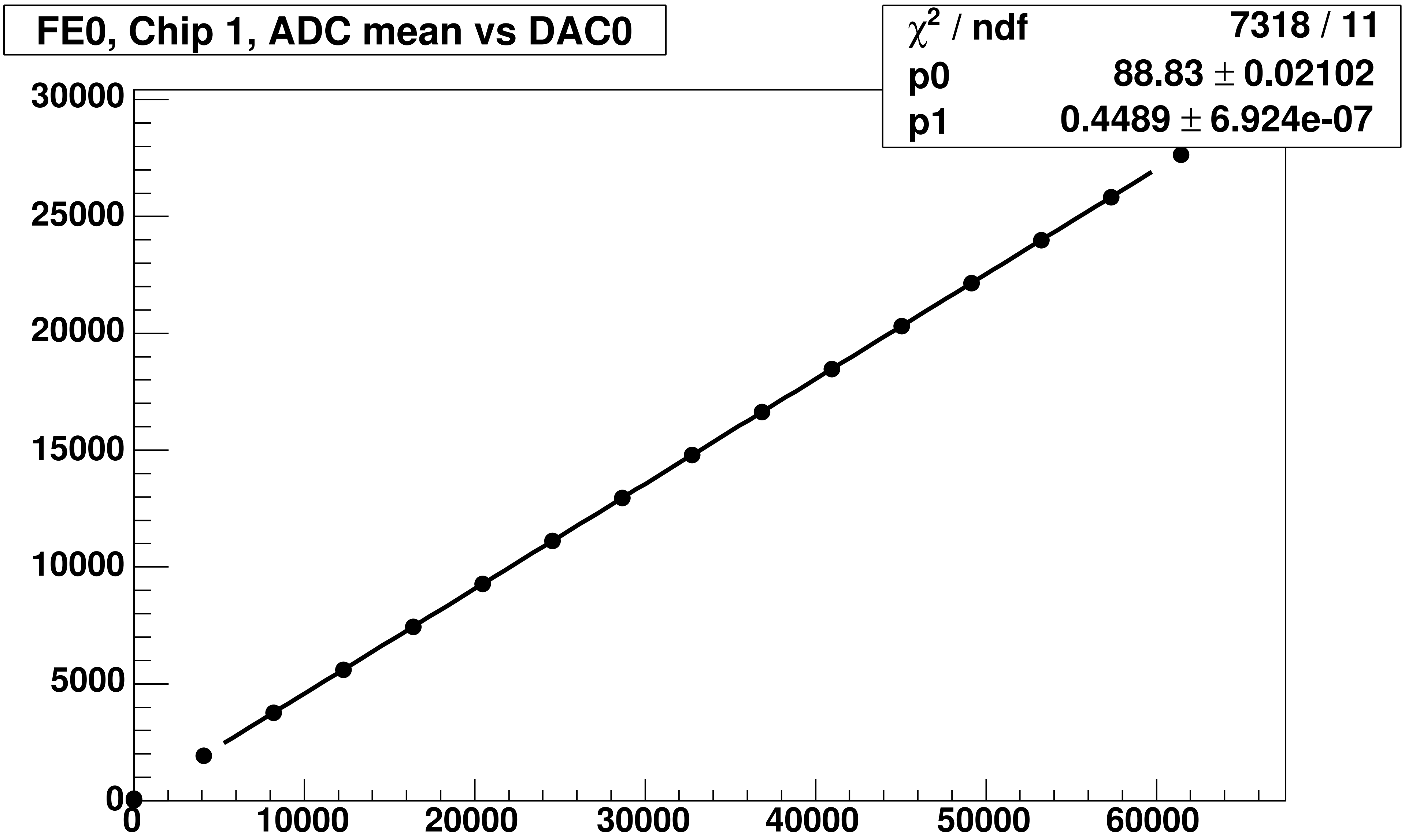
FE0, Chip 0, ADC residuals vs DAC0
5
0
-5
-10
-15
-20
-25
-30
-35
0
10000
20000
30000
40000
50000
60000


FE0, Chip 0, ADC mean vs DAC1
χ2 / ndf 38.42 / 11
p0 93.14 ± 0.02016
p1 1.47e-06 ± 5.583e-07
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
60000

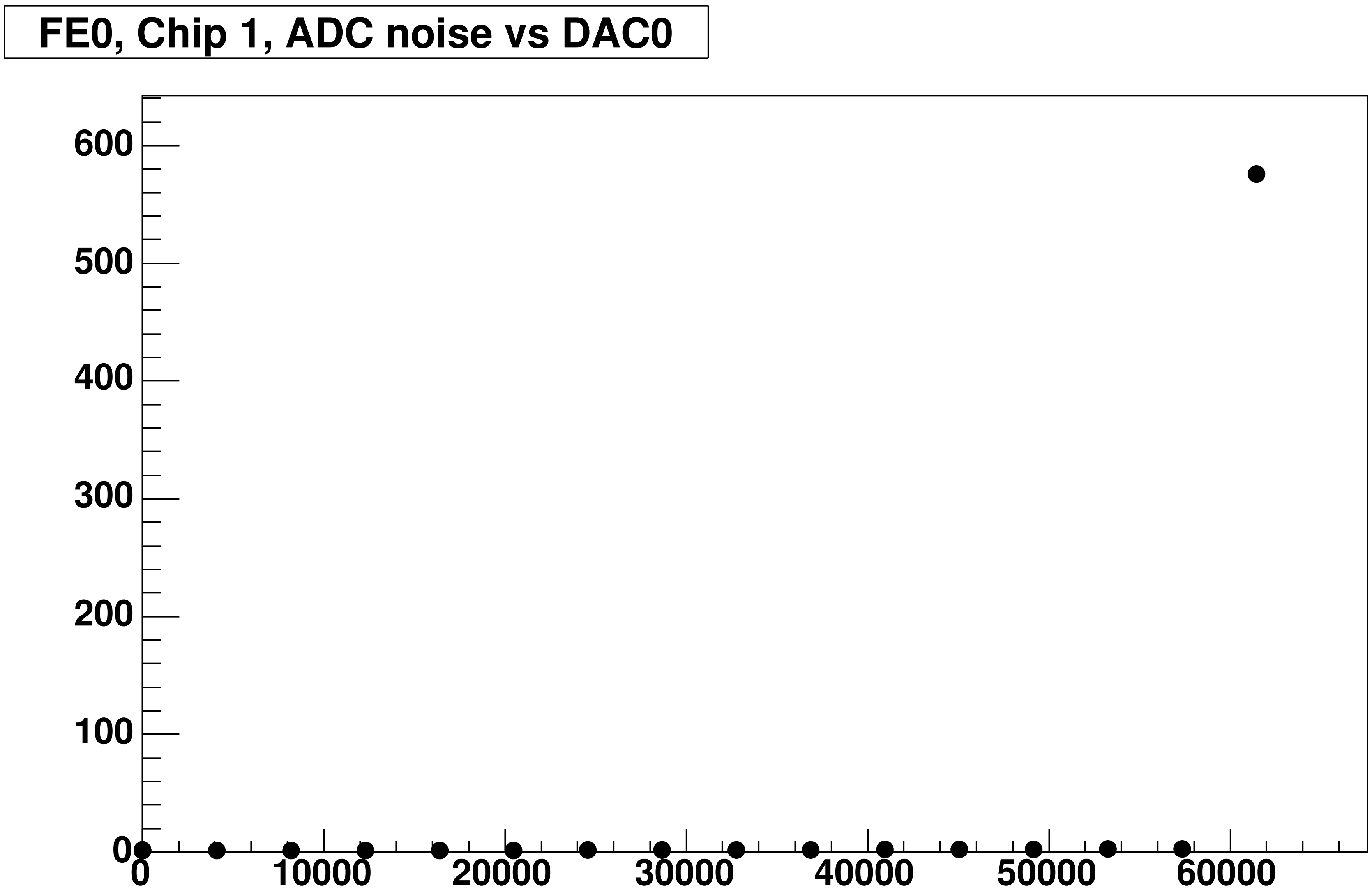

FE0, Chip 0, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

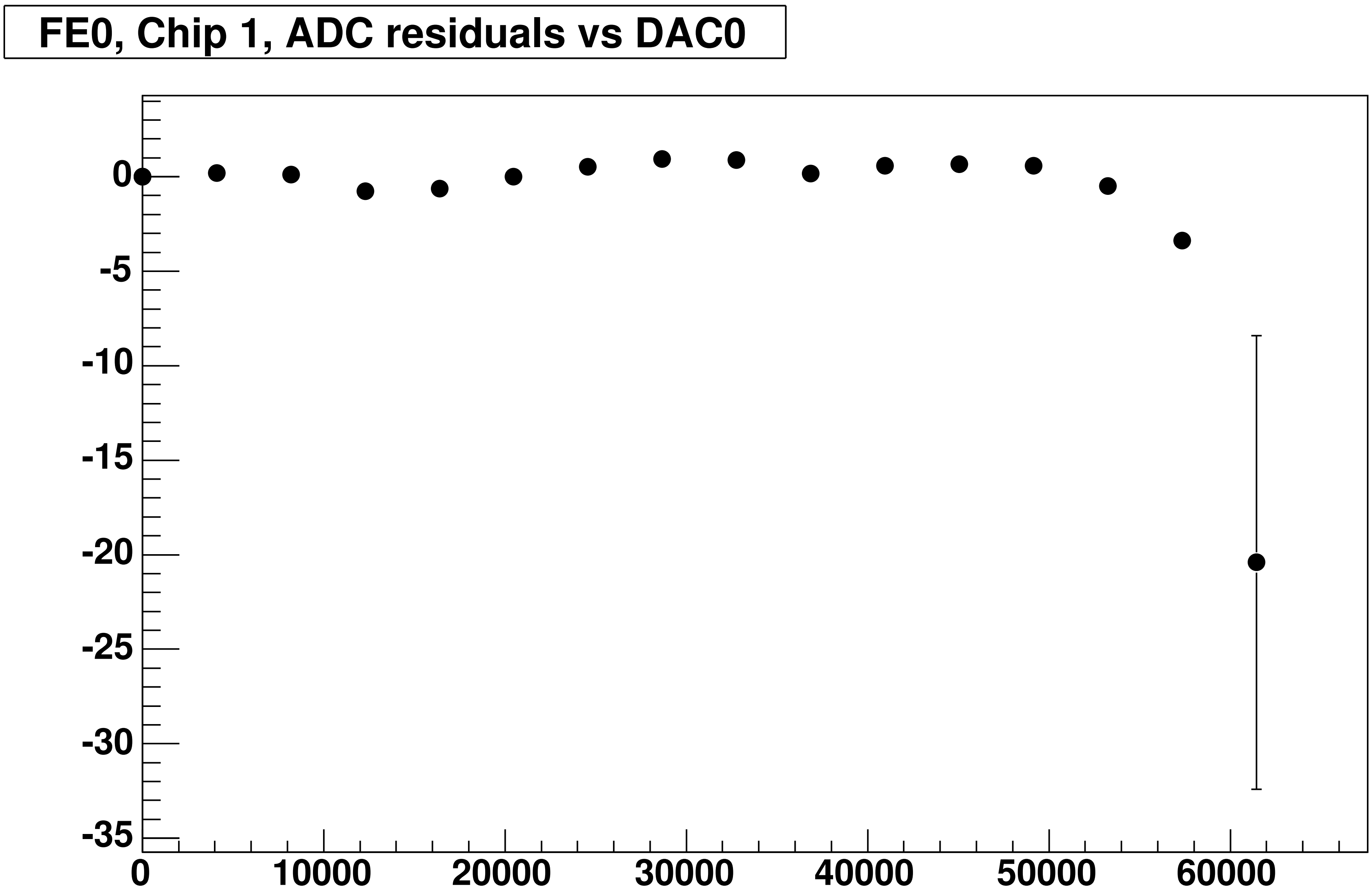


FE0, Chip 0, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

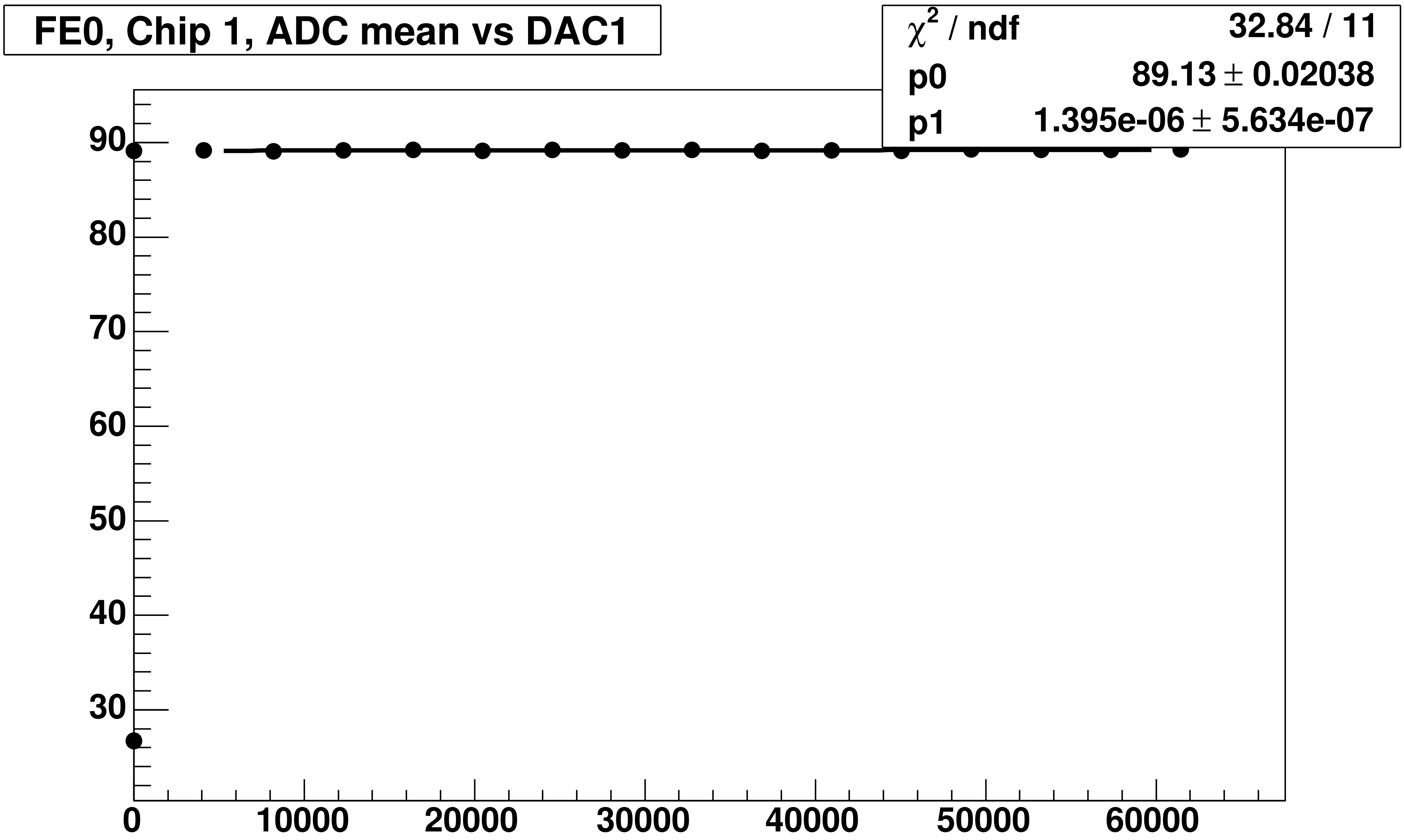


FE0, Chip 1, ADC mean vs DAC0
χ² / ndf 7318 / 11
p0 88.83 ± 0.02102
p1 0.4489 ± 6.924e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

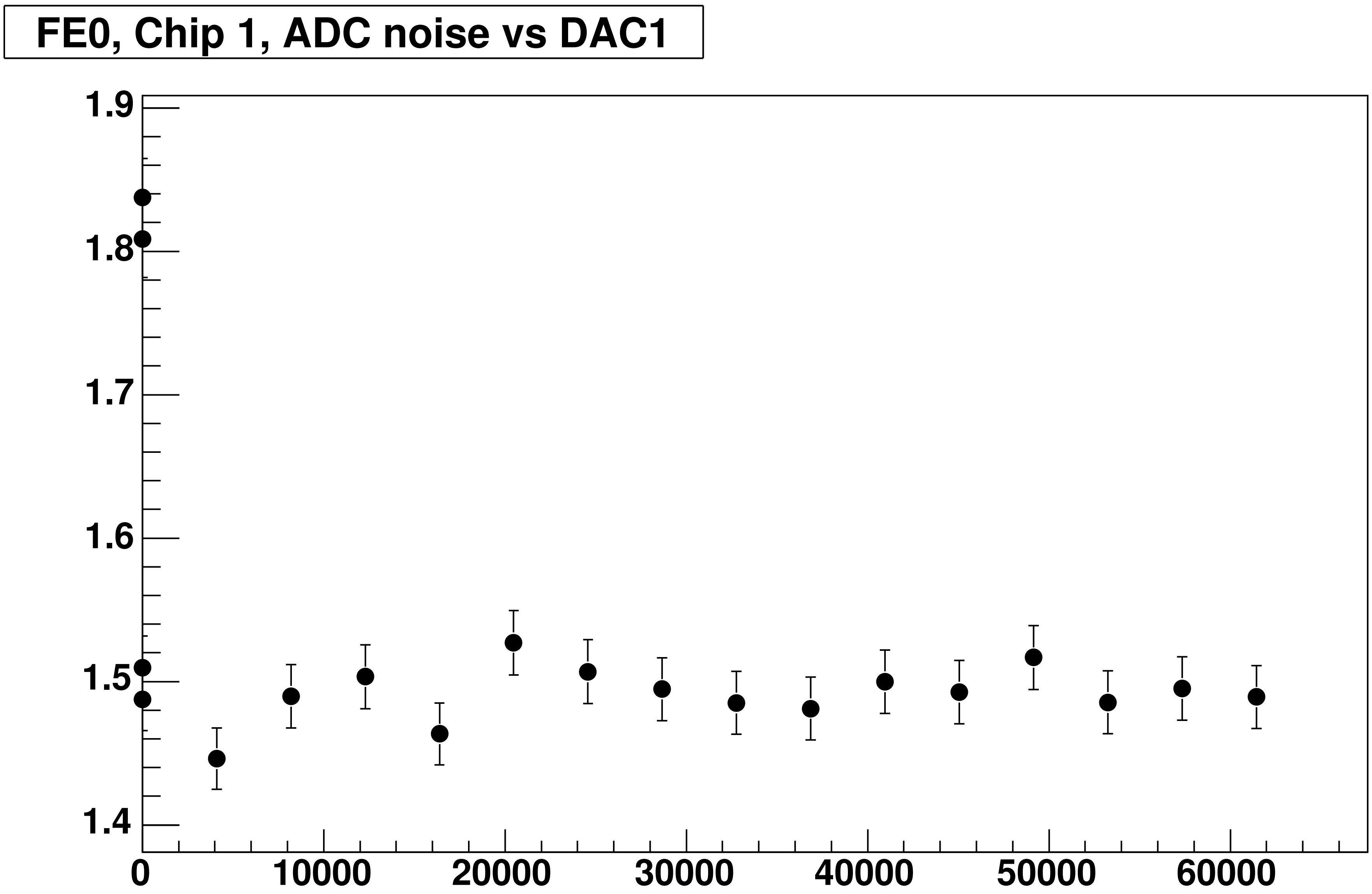

FE0, Chip 1, ADC noise vs DAC0
0
100
200
300
400
500
600
0
10000
20000
30000
40000
50000
60000

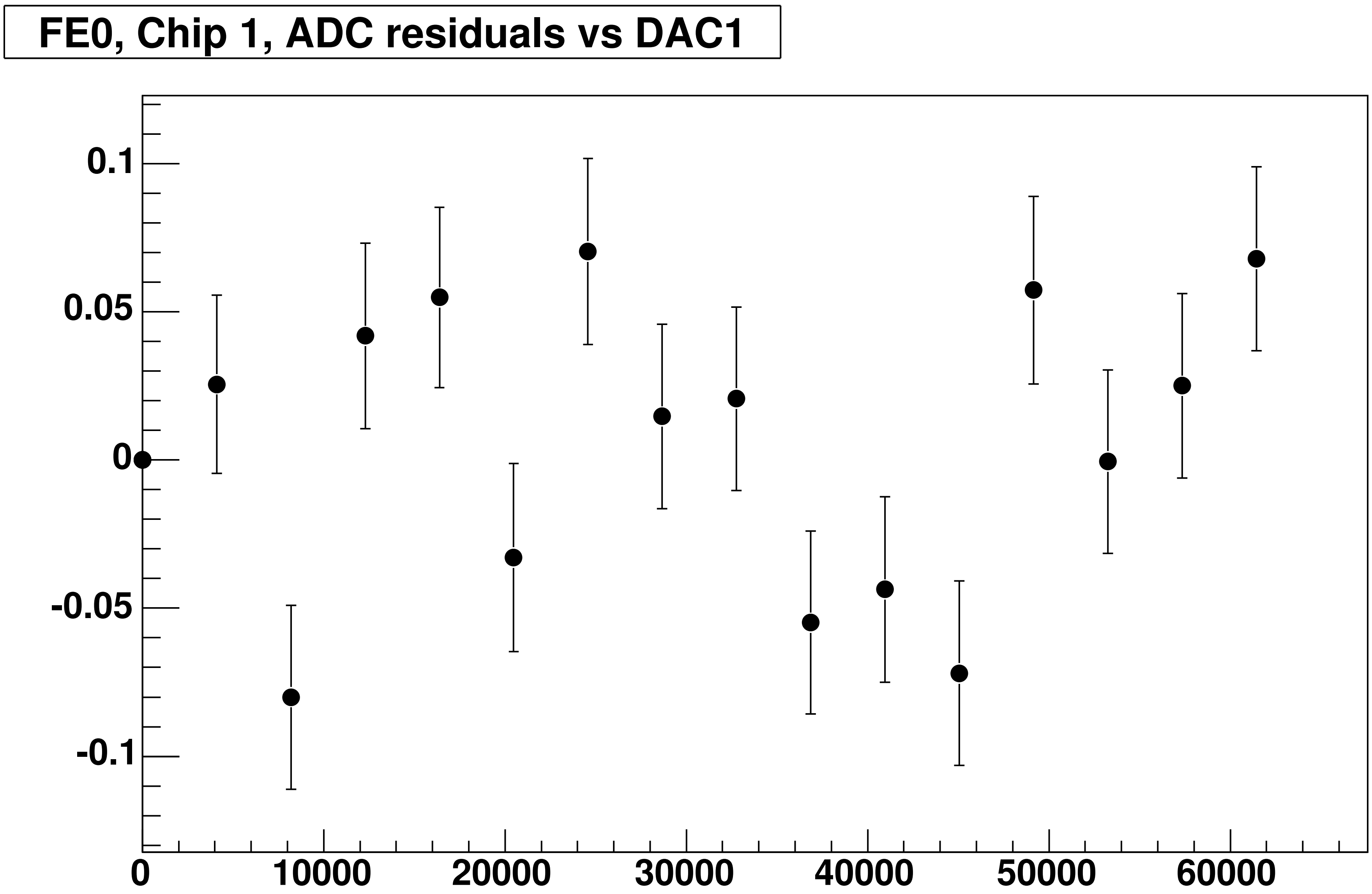


FE0, Chip 1, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
-35
0
10000
20000
30000
40000
50000
60000

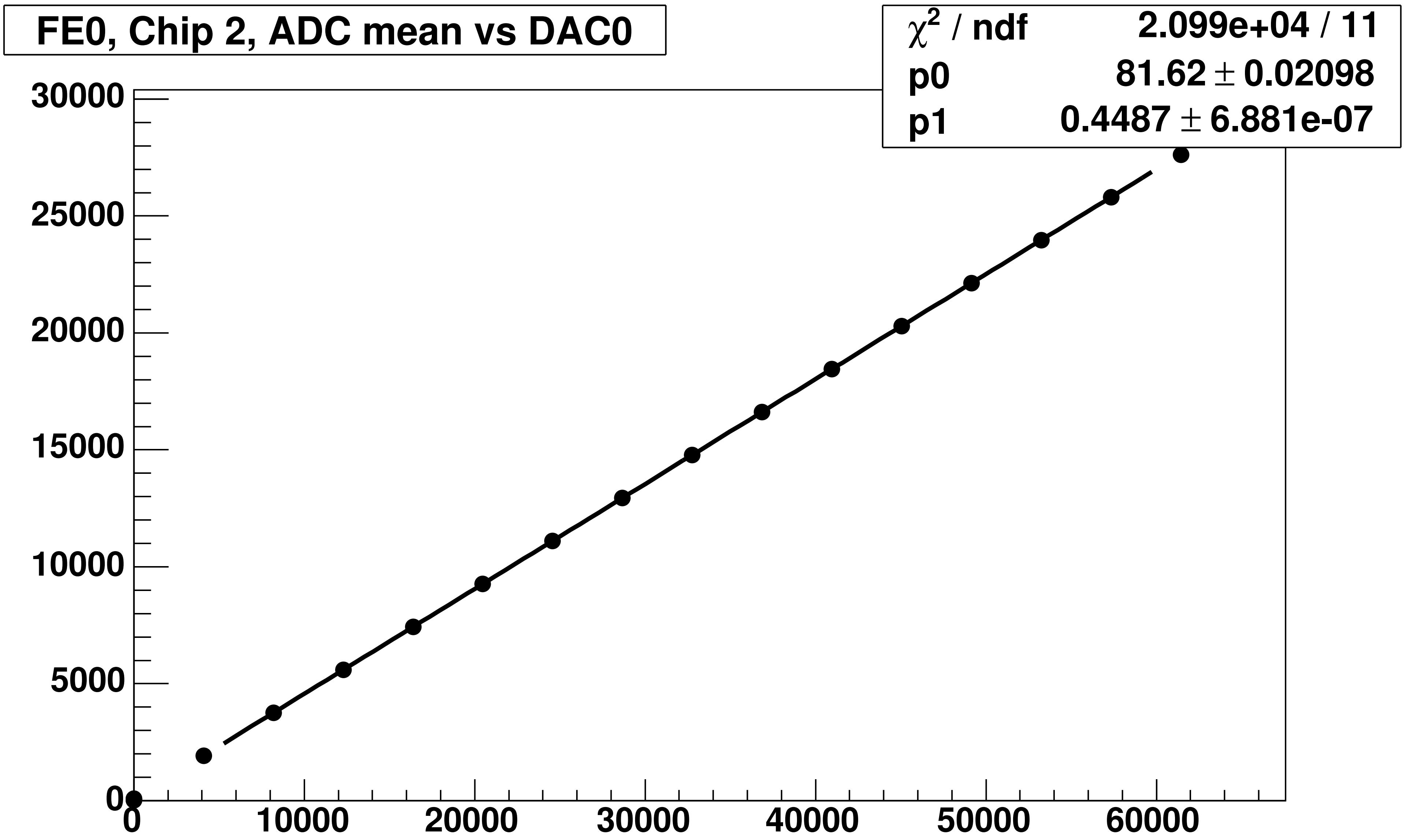


FE0, Chip 1, ADC mean vs DAC1
χ^2 / ndf 32.84 / 11
p0 89.13 ± 0.02038
p1 1.395e-06 ± 5.634e-07
90
80
70
60
50
40
30
0
10000
20000
30000
40000
50000
60000

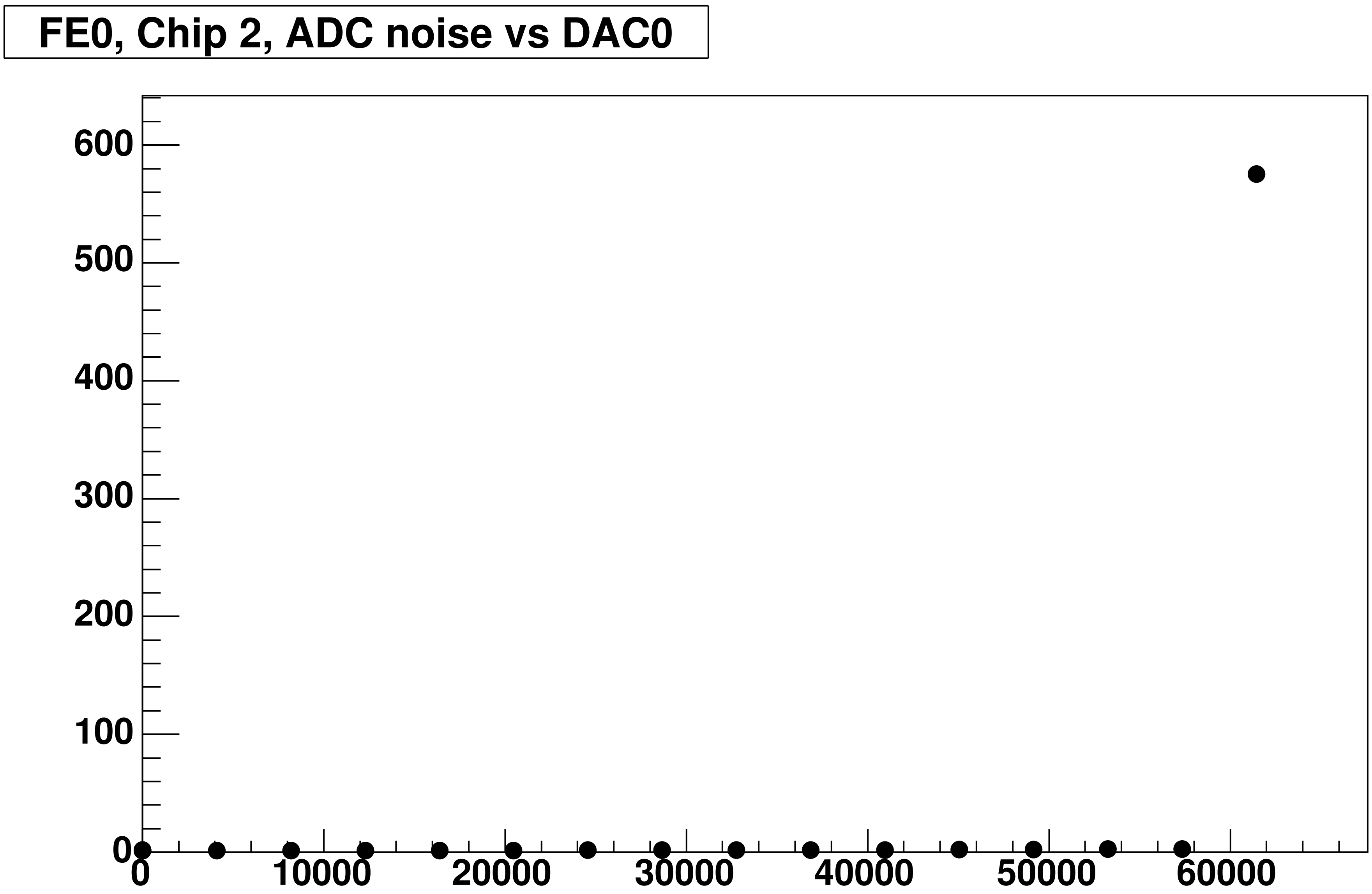

FE0, Chip 1, ADC noise vs DAC1
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

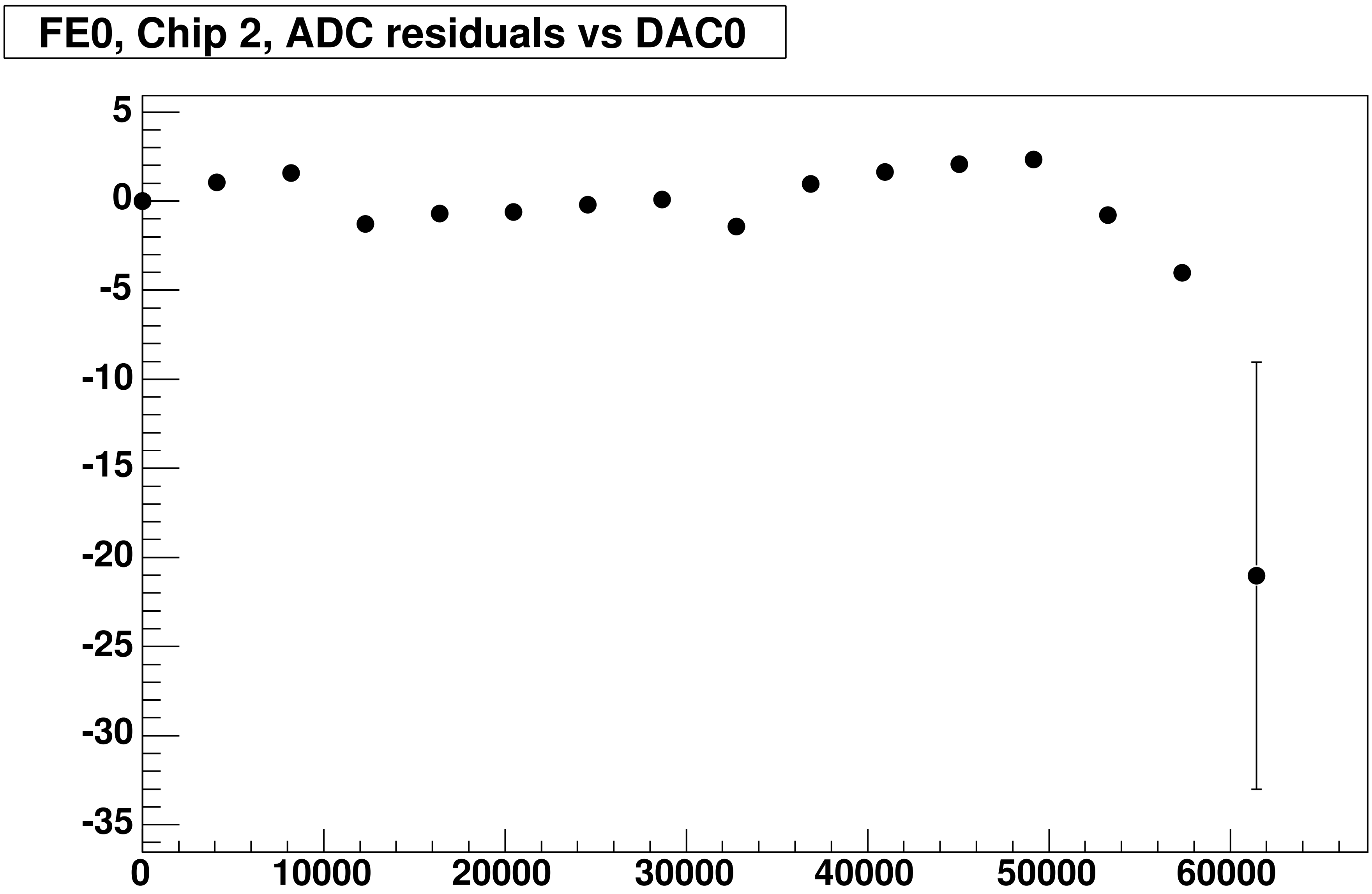


FE0, Chip 1, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

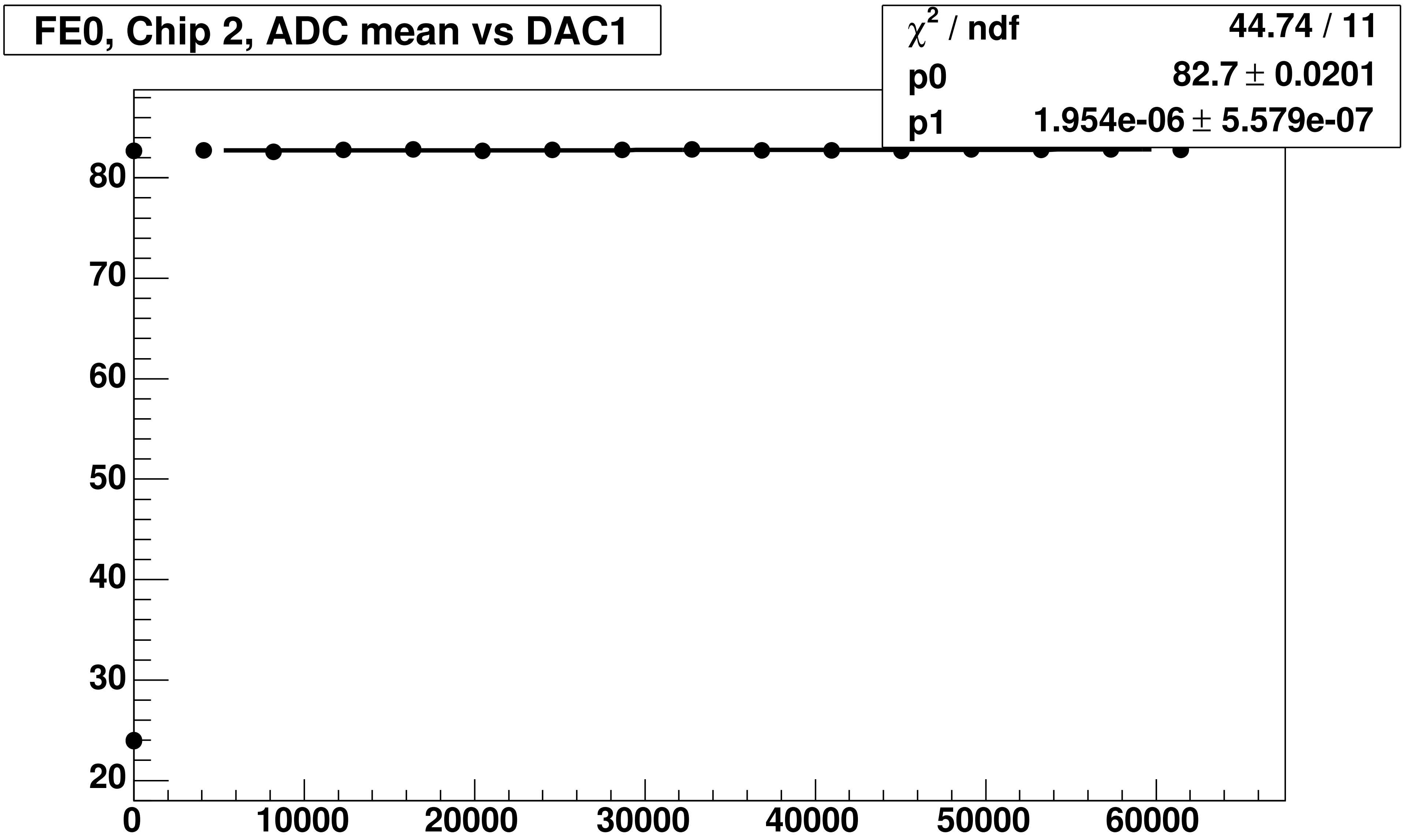


FE0, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2.099e+04 / 11
p0 81.62 ± 0.02098
p1 0.4487 ± 6.881e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

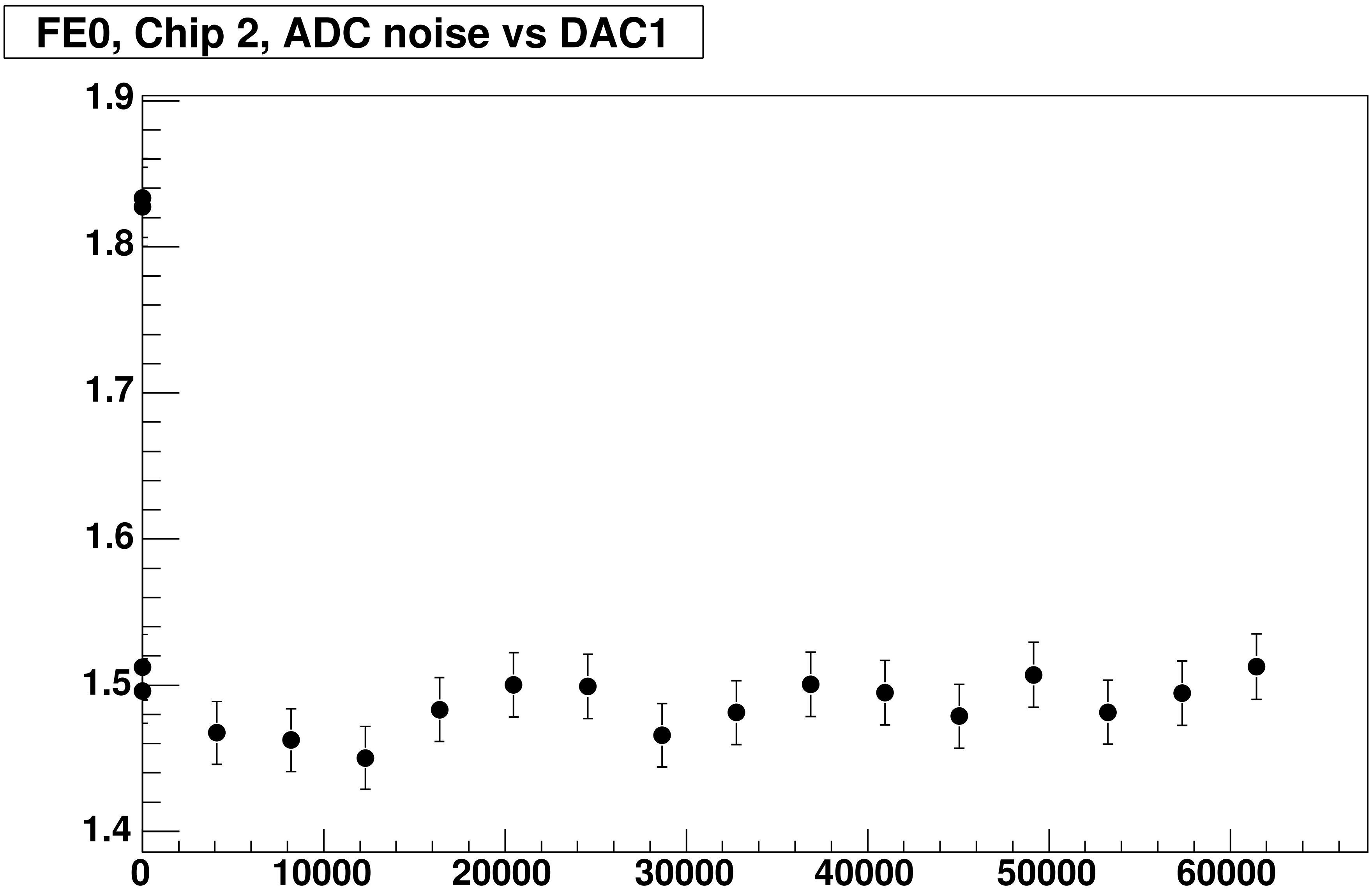

FE0, Chip 2, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000



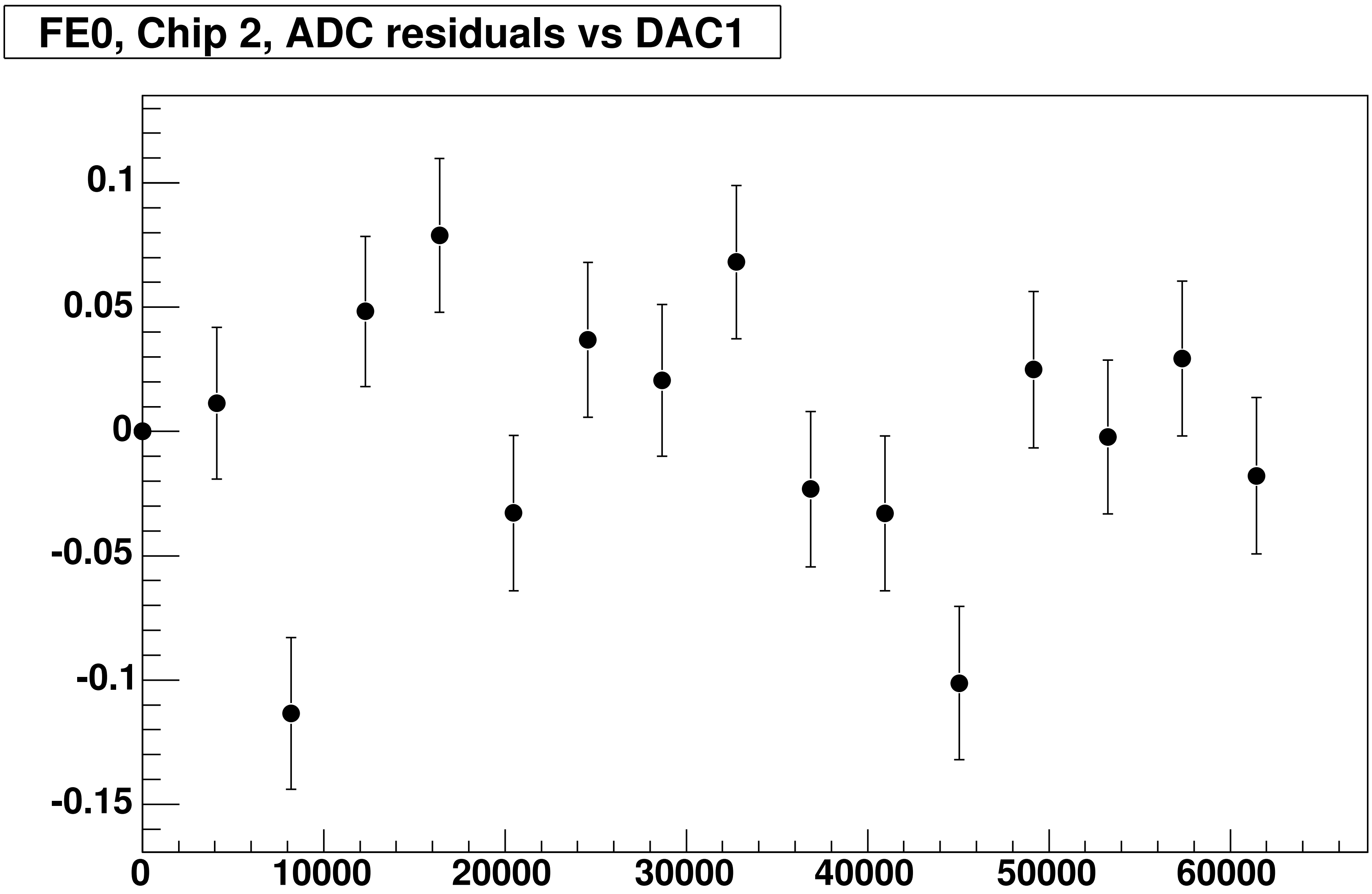
FE0, Chip 2, ADC residuals vs DAC0
5
0
-5
-10
-15
-20
-25
-30
-35
0
10000
20000
30000
40000
50000
60000

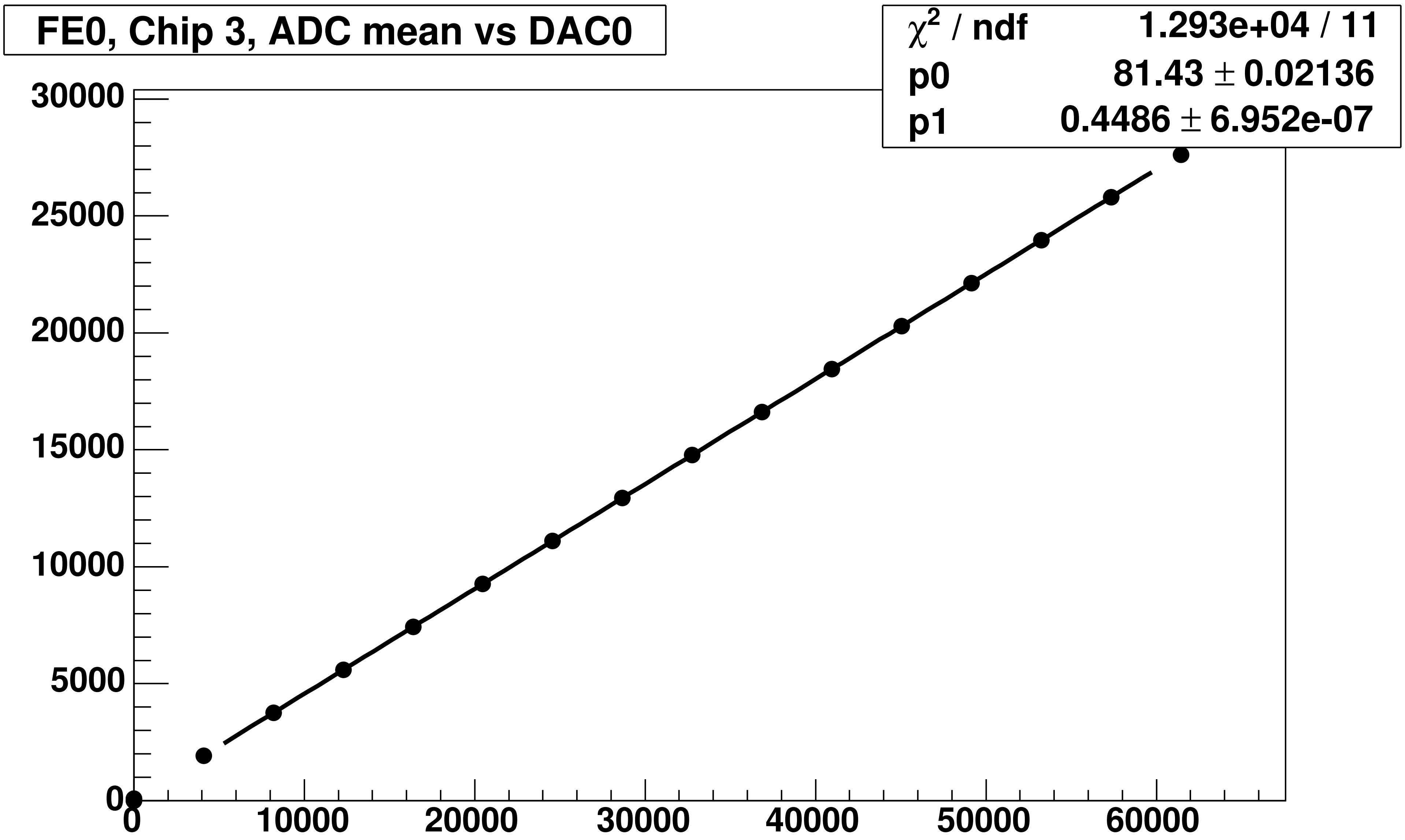


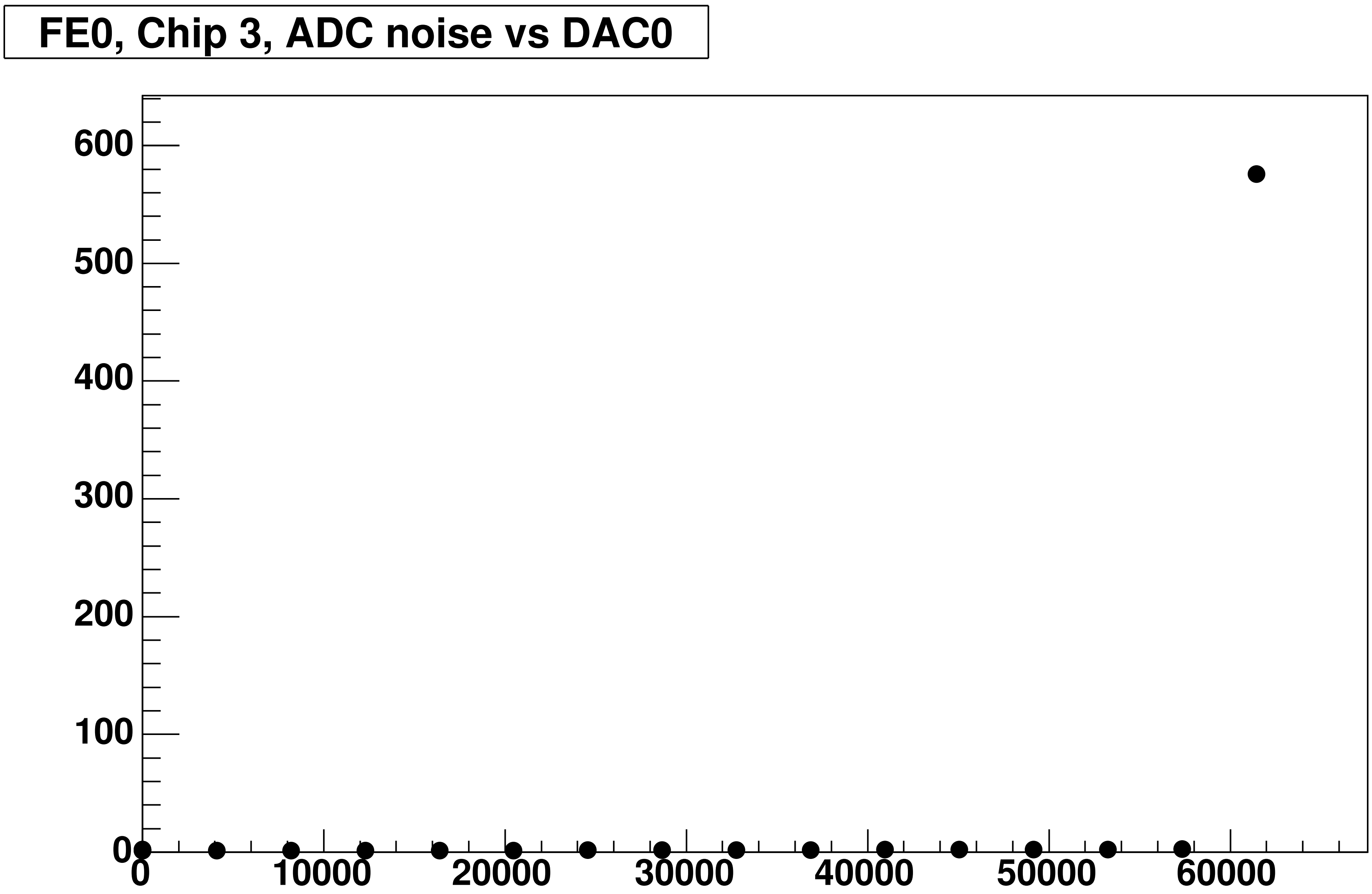
FE0, Chip 2, ADC mean vs DAC1
χ² / ndf 44.74 / 11
p0 82.7 ± 0.0201
p1 1.954e-06 ± 5.579e-07
80
70
60
50
40
30
20
0
10000
20000
30000
40000
50000
60000

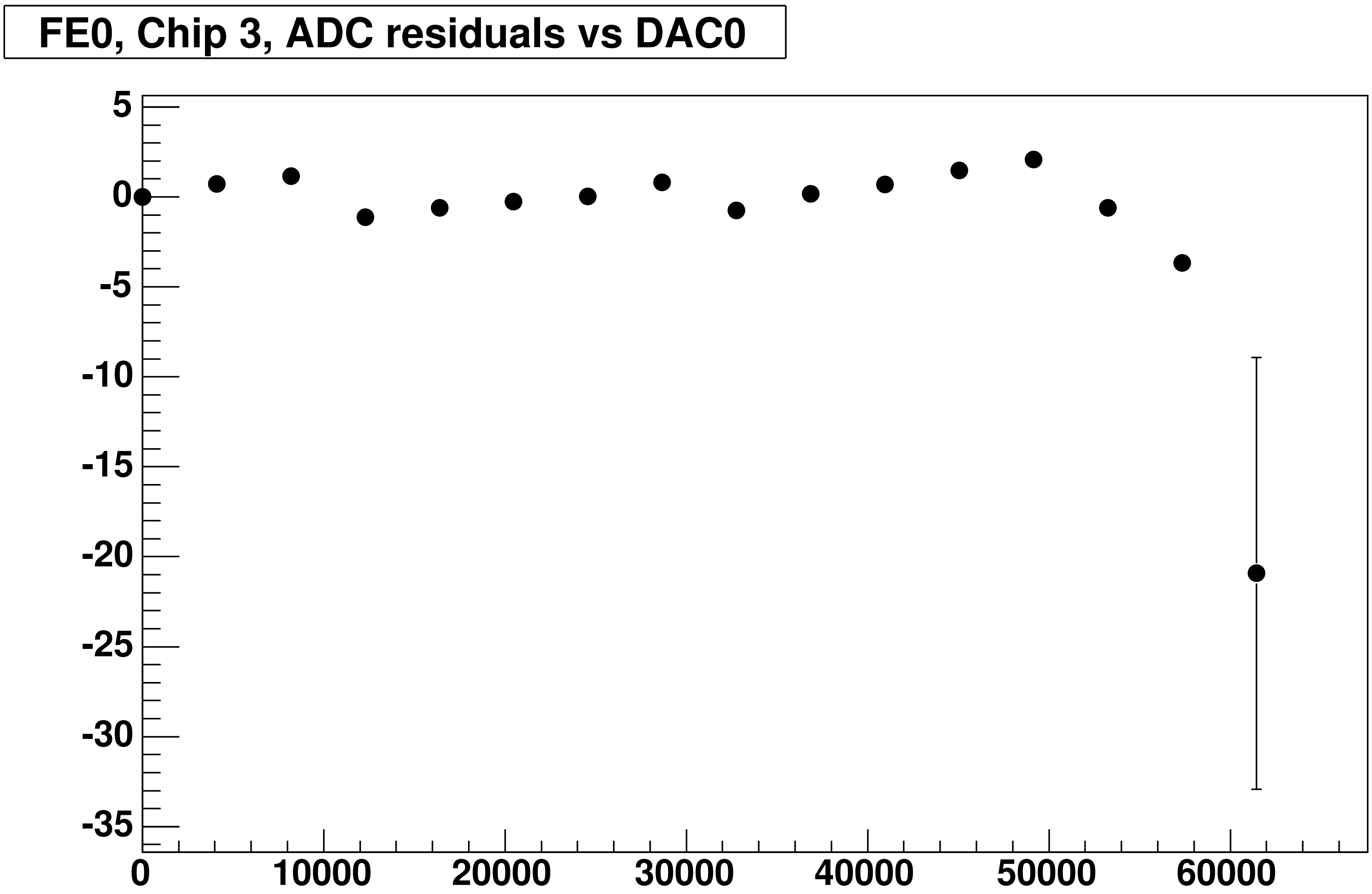


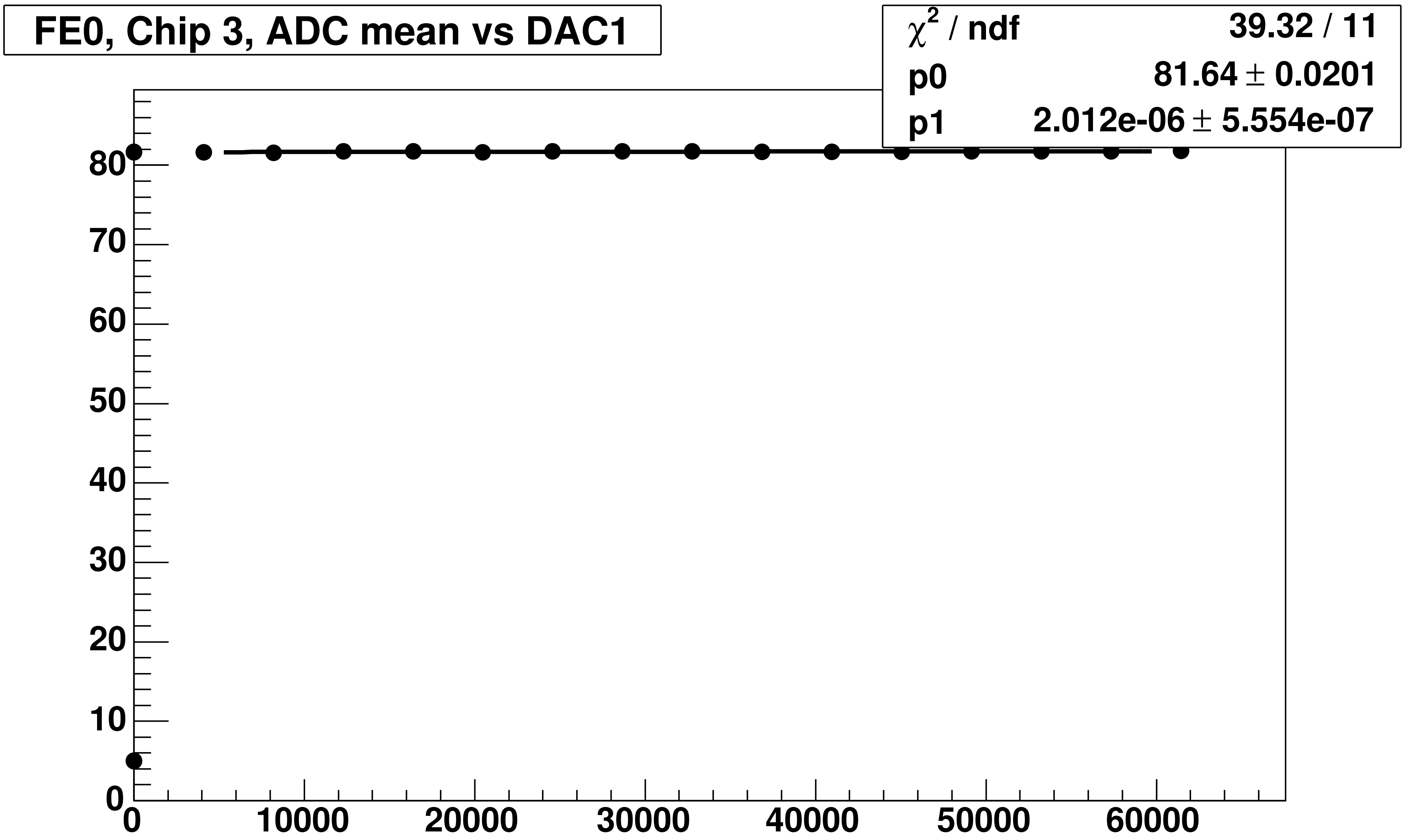
FE0, Chip 2, ADC noise vs DAC1
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

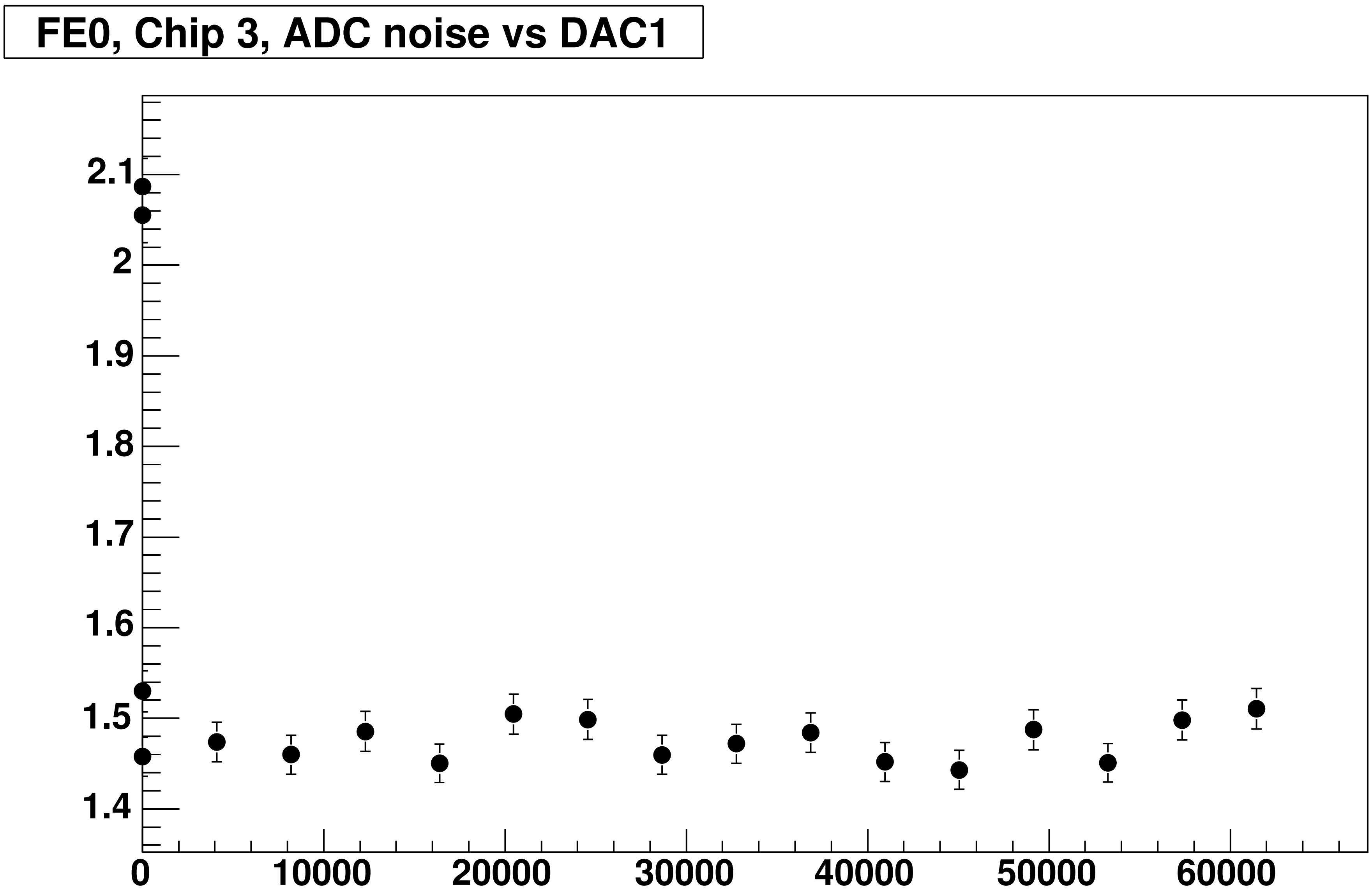

FE0, Chip 2, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000


FE0, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1.293e+04 / 11
p0 81.43 ± 0.02136
p1 0.4486 ± 6.952e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

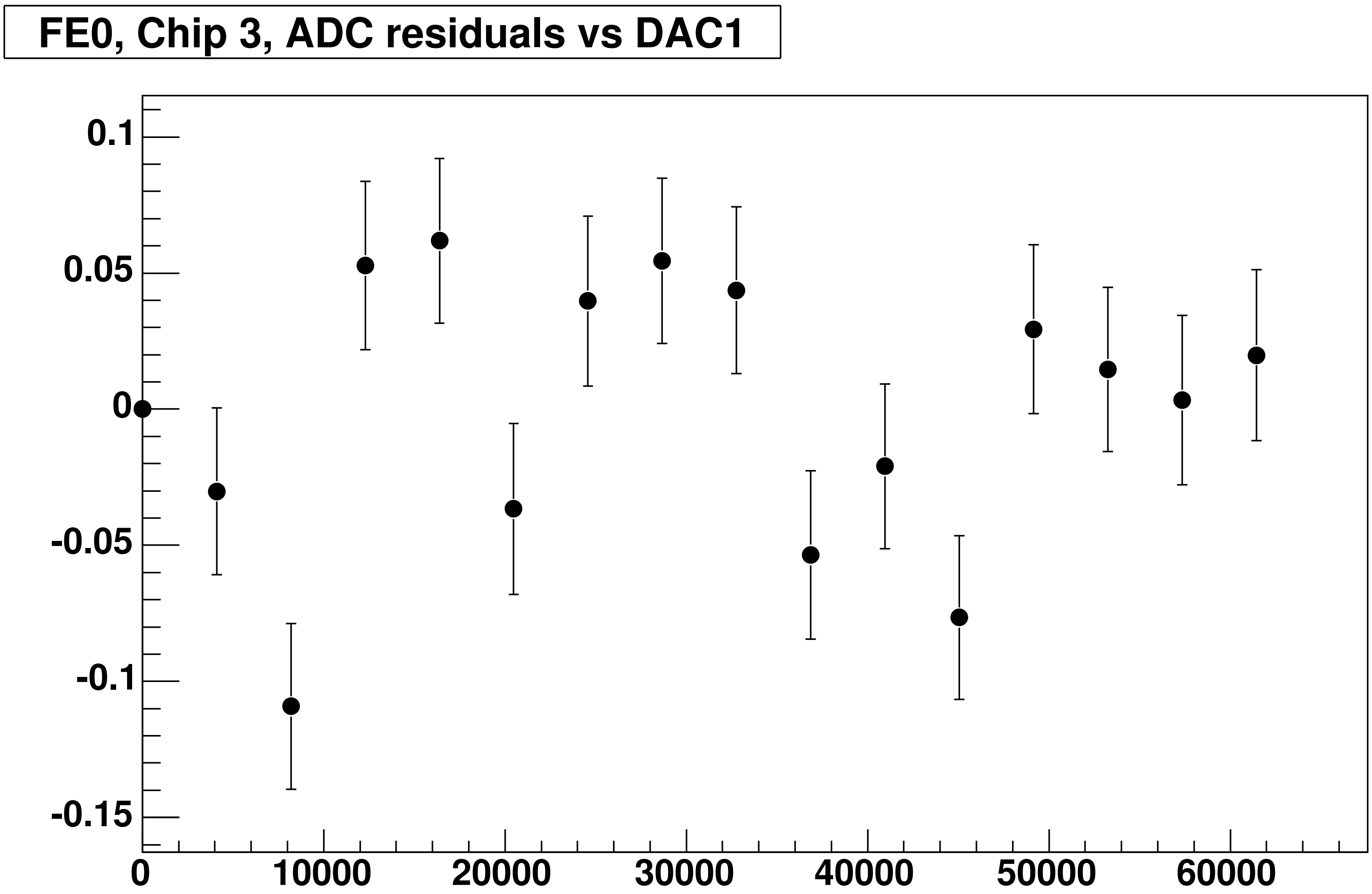

FE0, Chip 3, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000


FE0, Chip 3, ADC residuals vs DAC0
5
0
-5
-10
-15
-20
-25
-30
-35
0
10000
20000
30000
40000
50000
60000

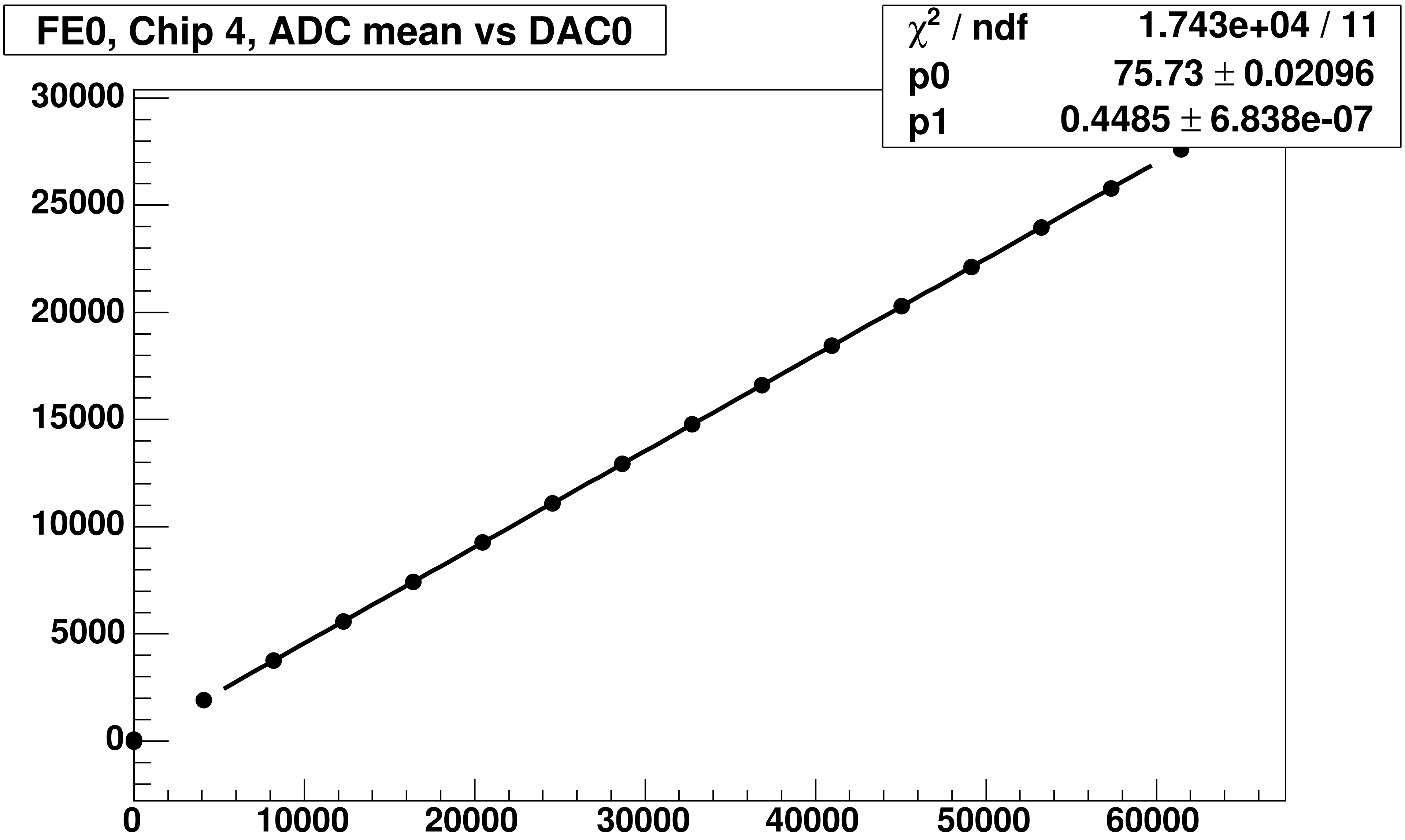

FE0, Chip 3, ADC mean vs DAC1
χ^2 / ndf 39.32 / 11
p0 81.64 ± 0.0201
p1 2.012e-06 ± 5.554e-07
0
10
20
30
40
50
60
70
80
0
10000
20000
30000
40000
50000
60000



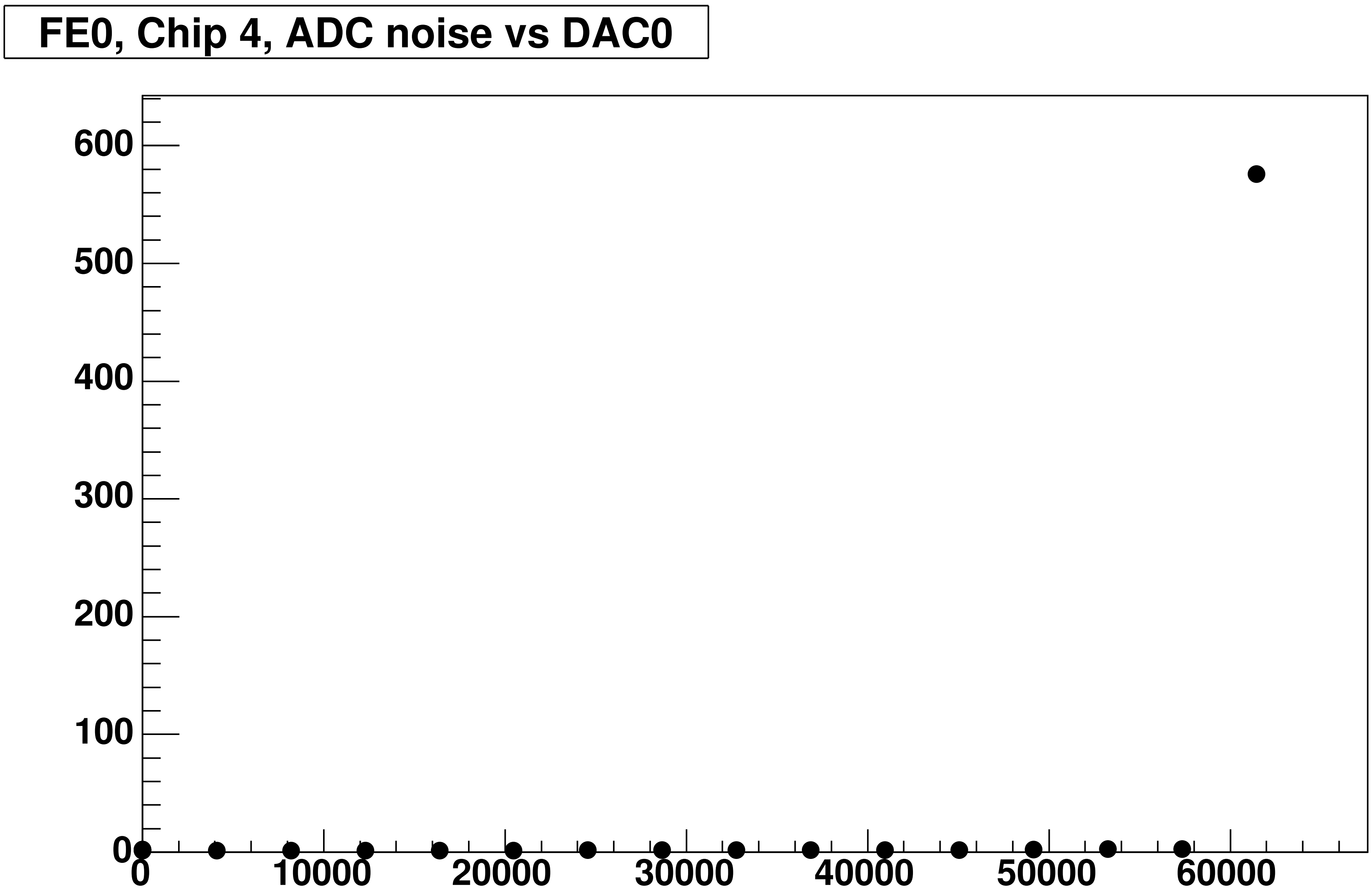
FE0, Chip 3, ADC noise vs DAC1
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000



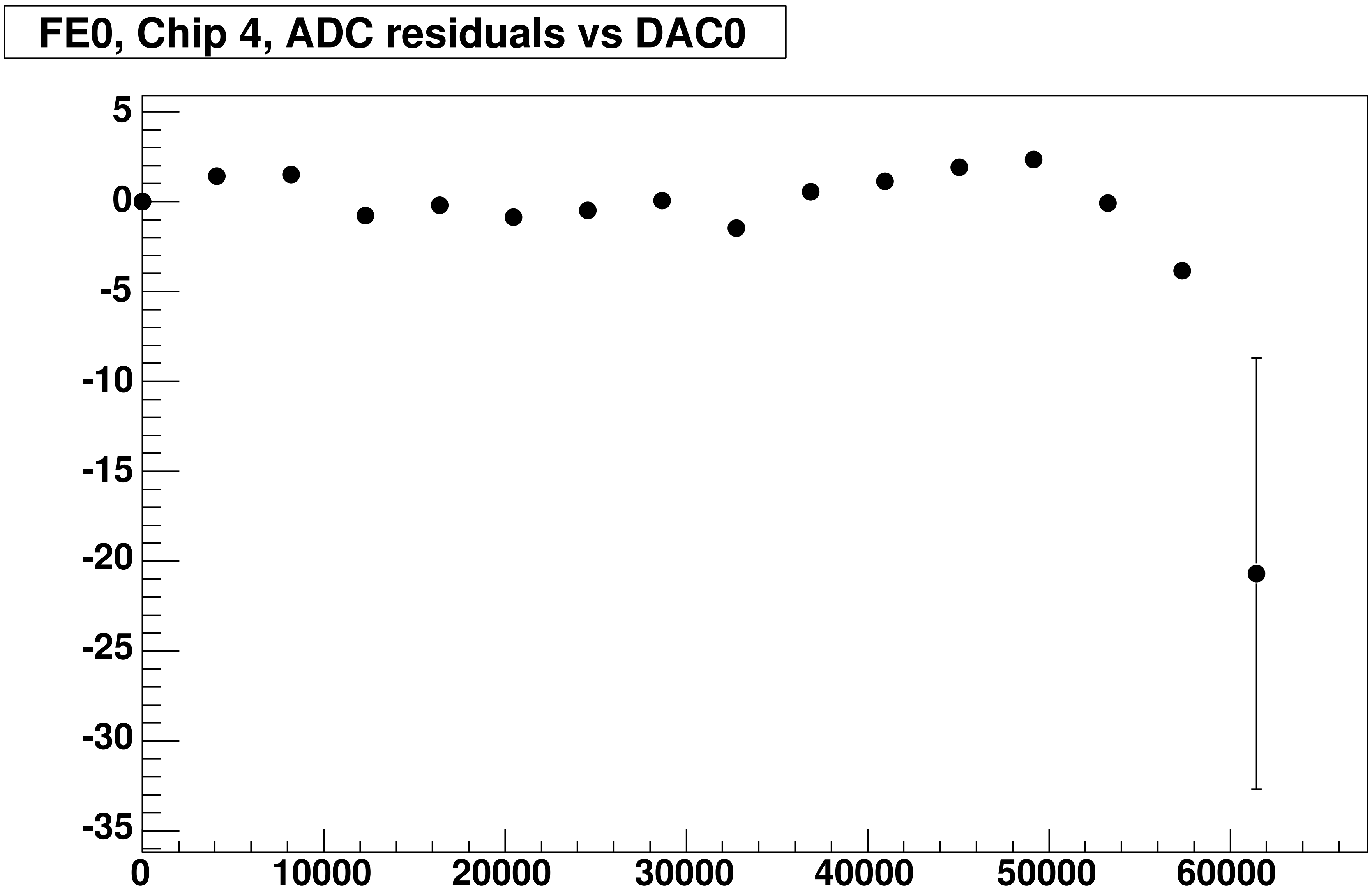
FE0, Chip 3, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

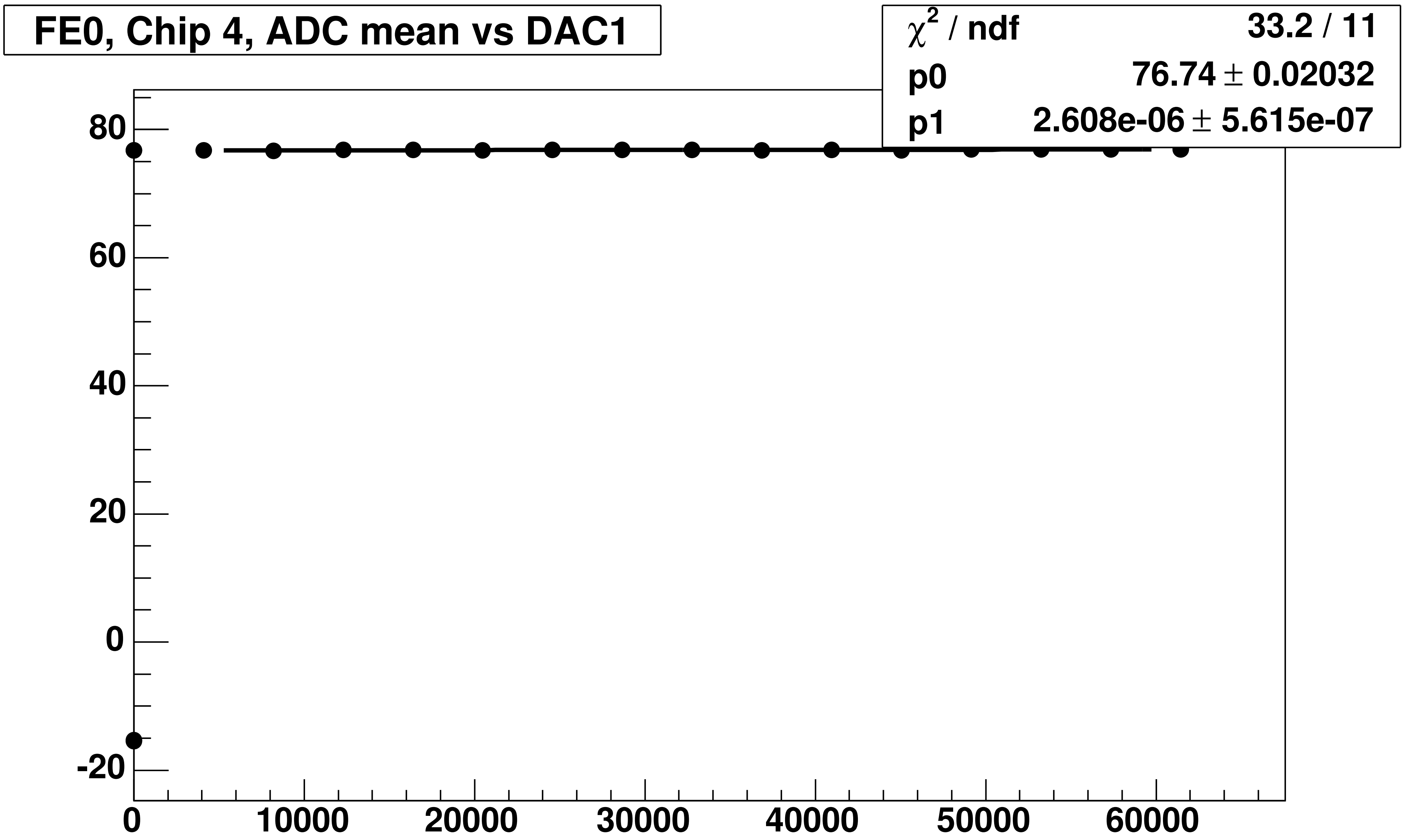


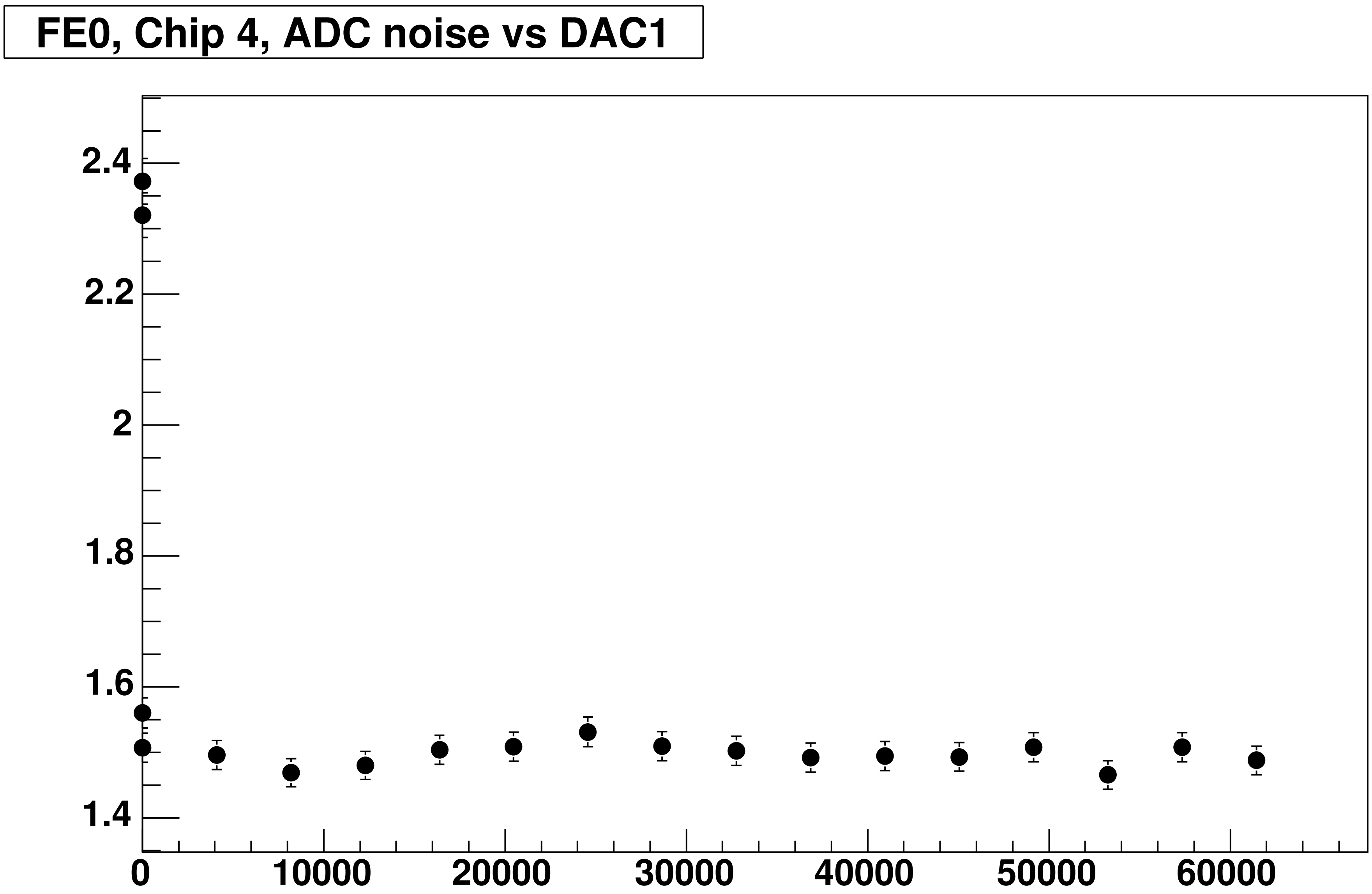
FE0, Chip 4, ADC mean vs DAC0
χ² / ndf 1.743e+04 / 11
p0 75.73 ± 0.02096
p1 0.4485 ± 6.838e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



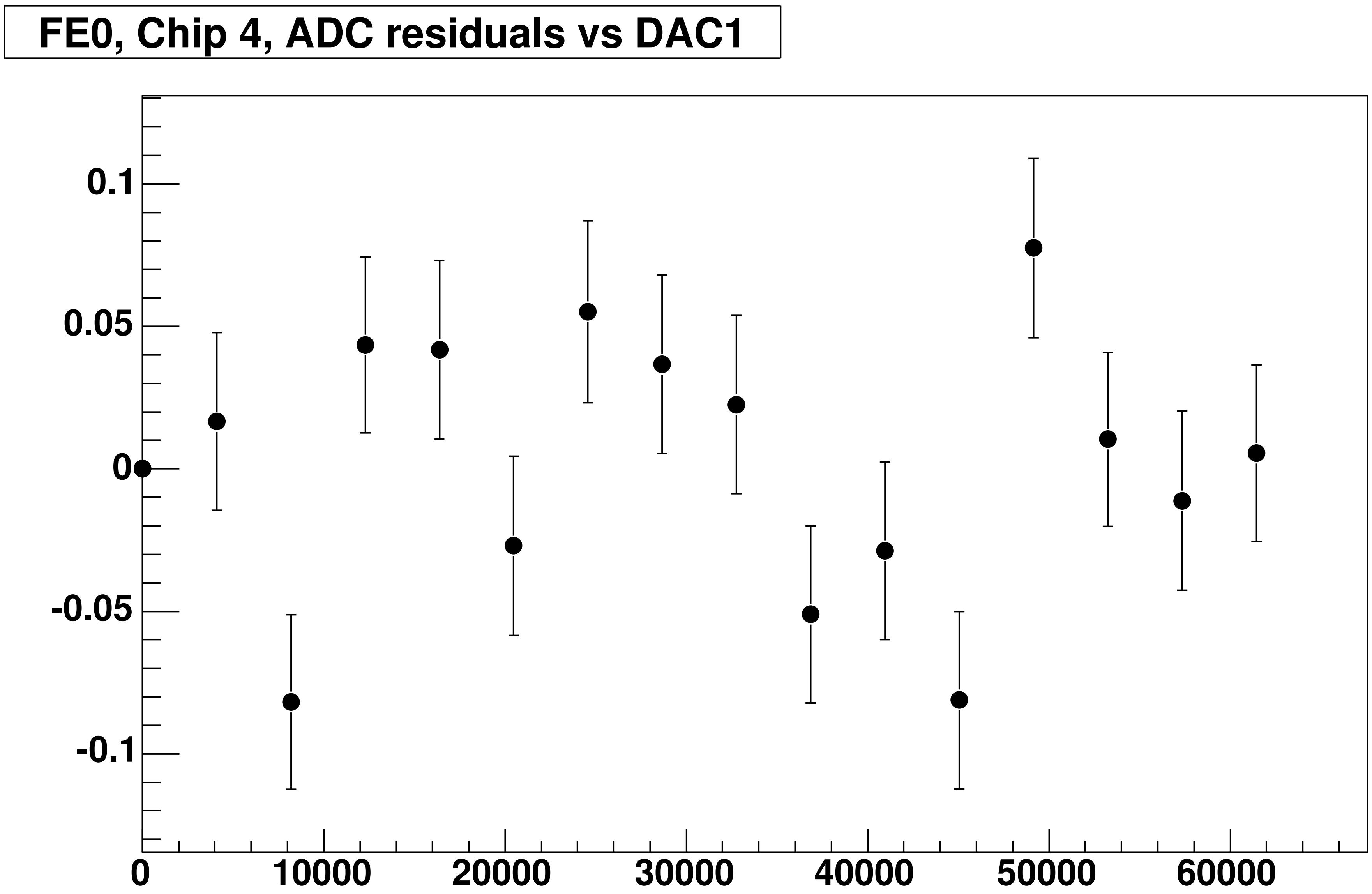
FE0, Chip 4, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000


FE0, Chip 4, ADC residuals vs DAC0
5
0
-5
-10
-15
-20
-25
-30
-35
0
10000
20000
30000
40000
50000
60000

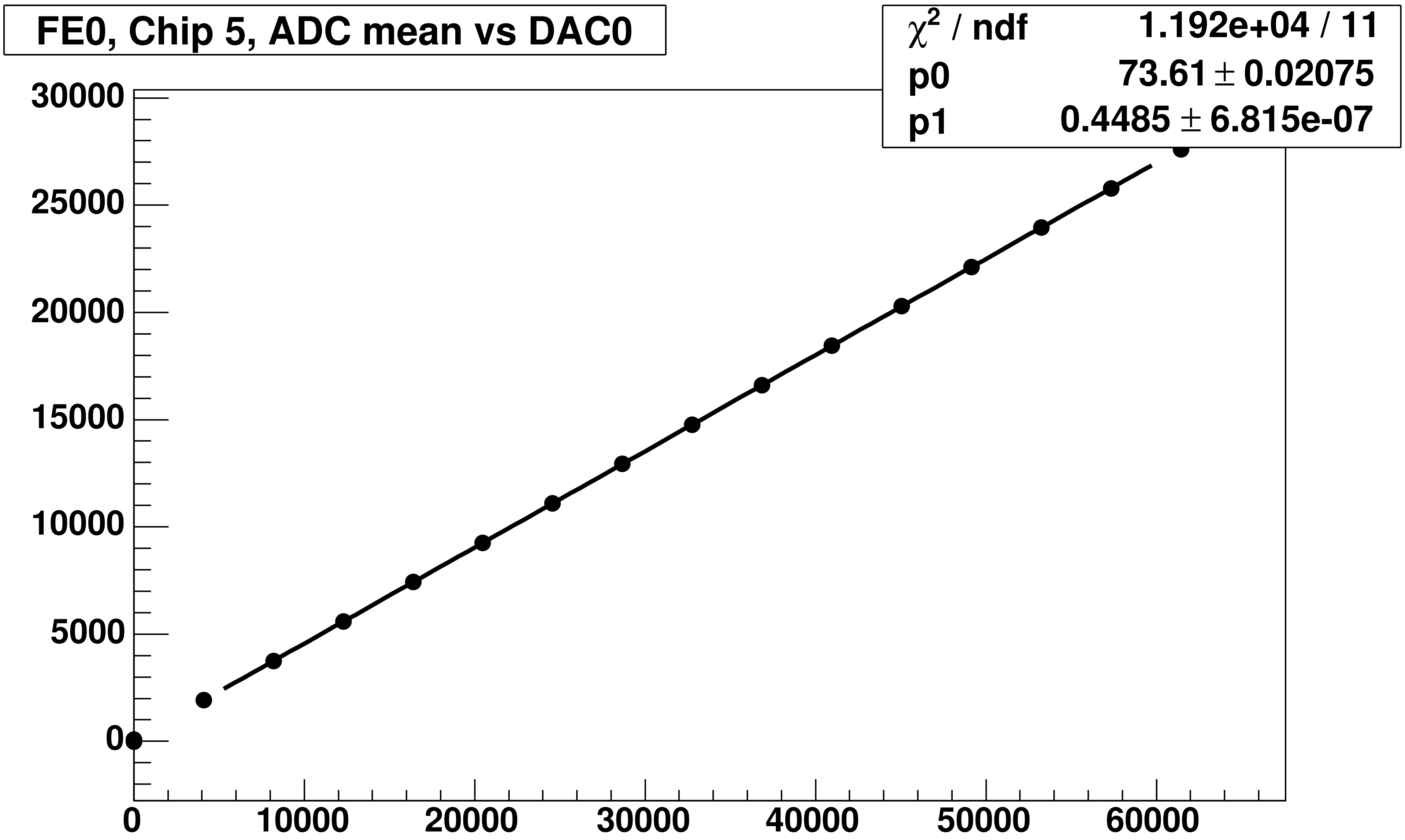

FE0, Chip 4, ADC mean vs DAC1
χ^2 / ndf 33.2 / 11
p0 76.74 ± 0.02032
p1 2.608e-06 ± 5.615e-07
80
60
40
20
0
-20
0
10000
20000
30000
40000
50000
60000

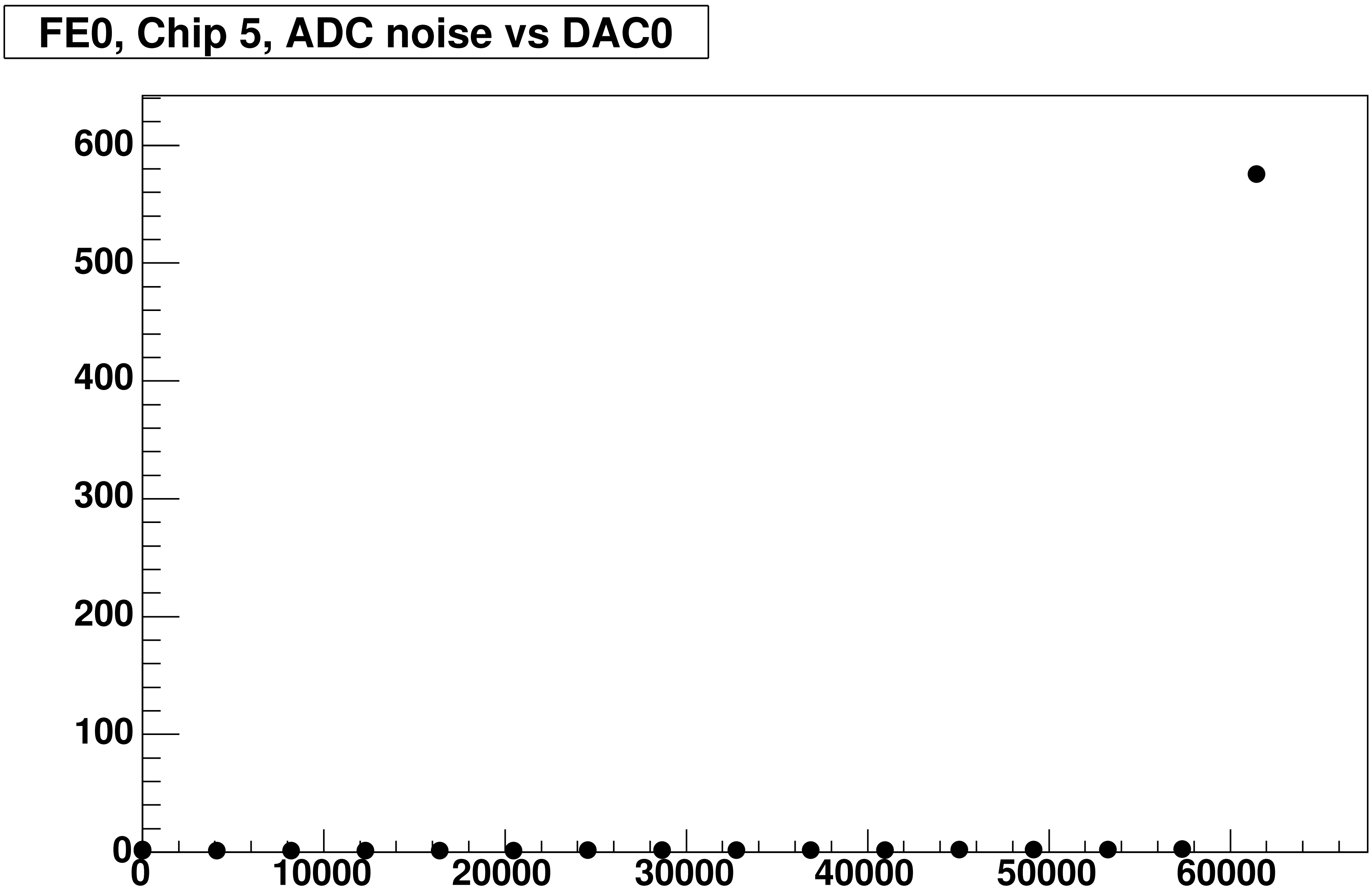


FE0, Chip 4, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

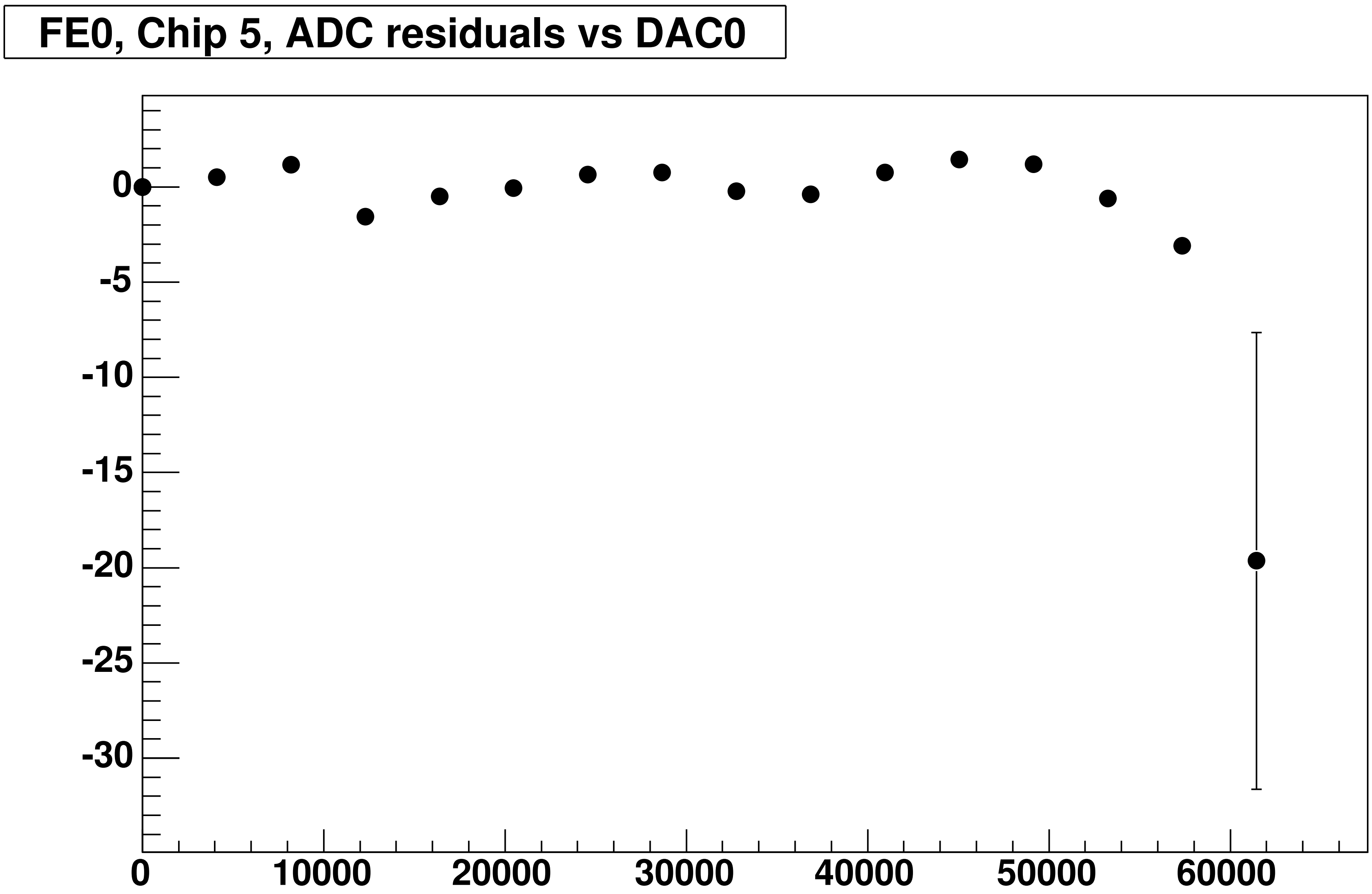


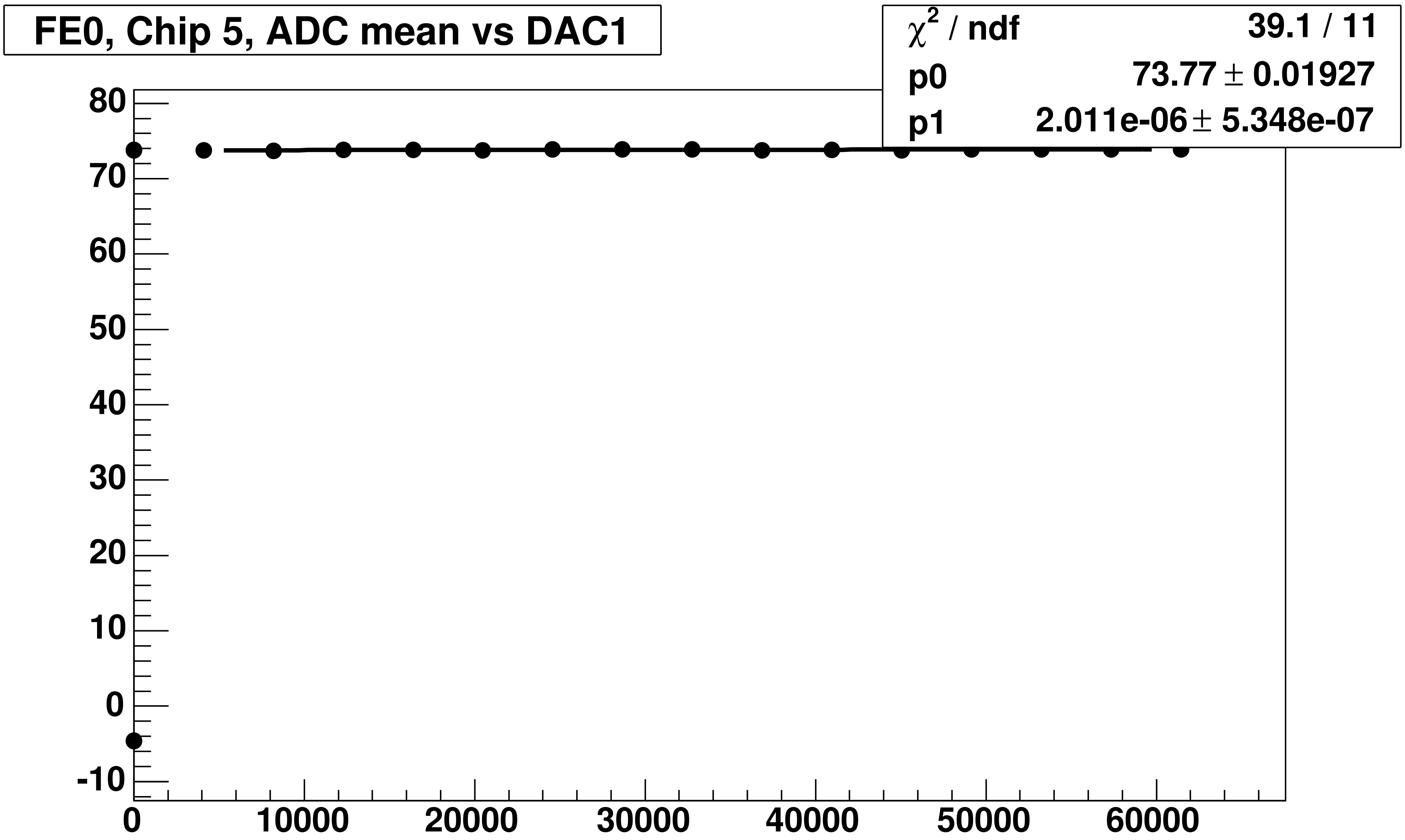
FE0, Chip 4, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

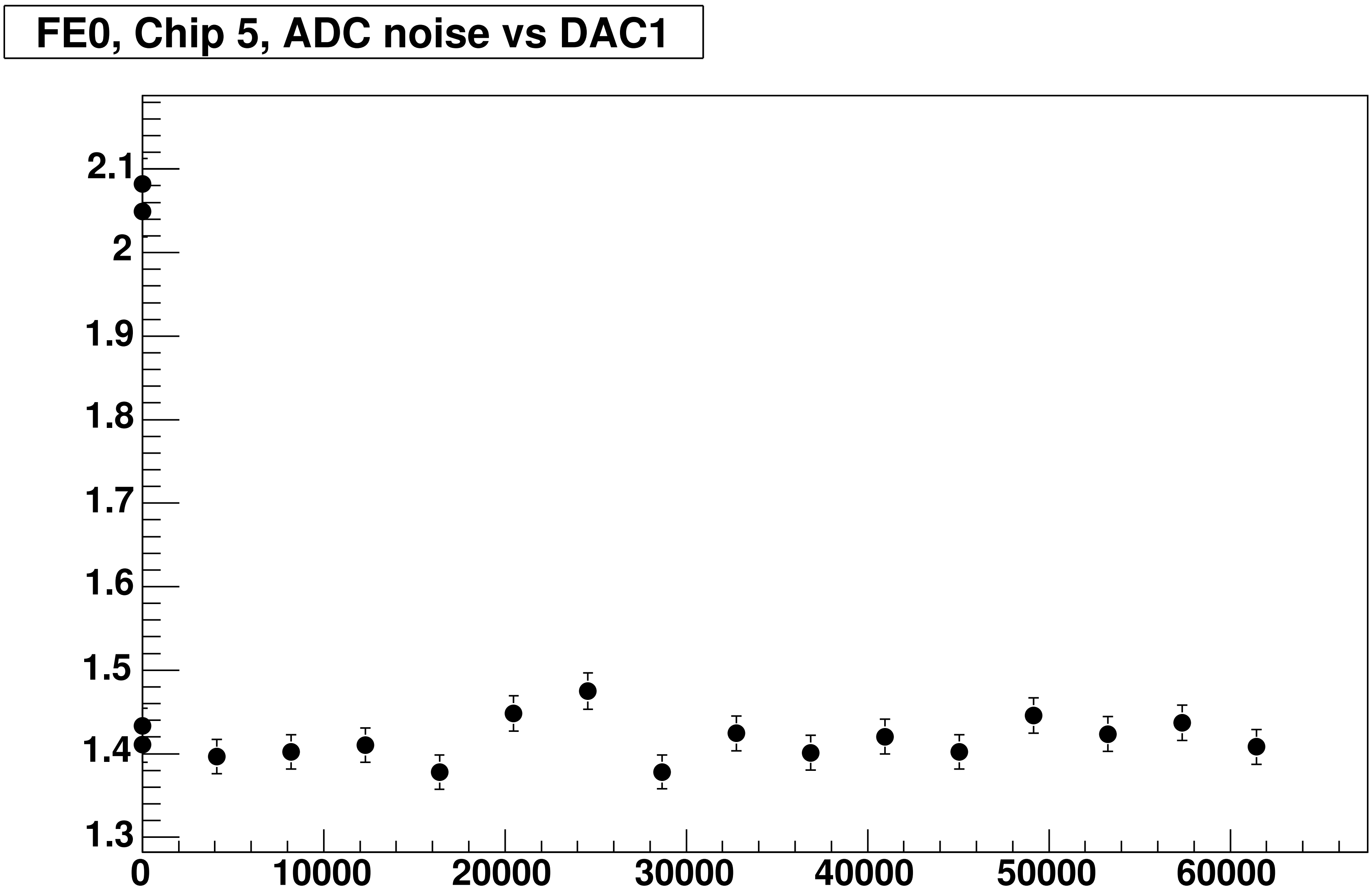

FE0, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1.192e+04 / 11
p0 73.61 ± 0.02075
p1 0.4485 ± 6.815e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

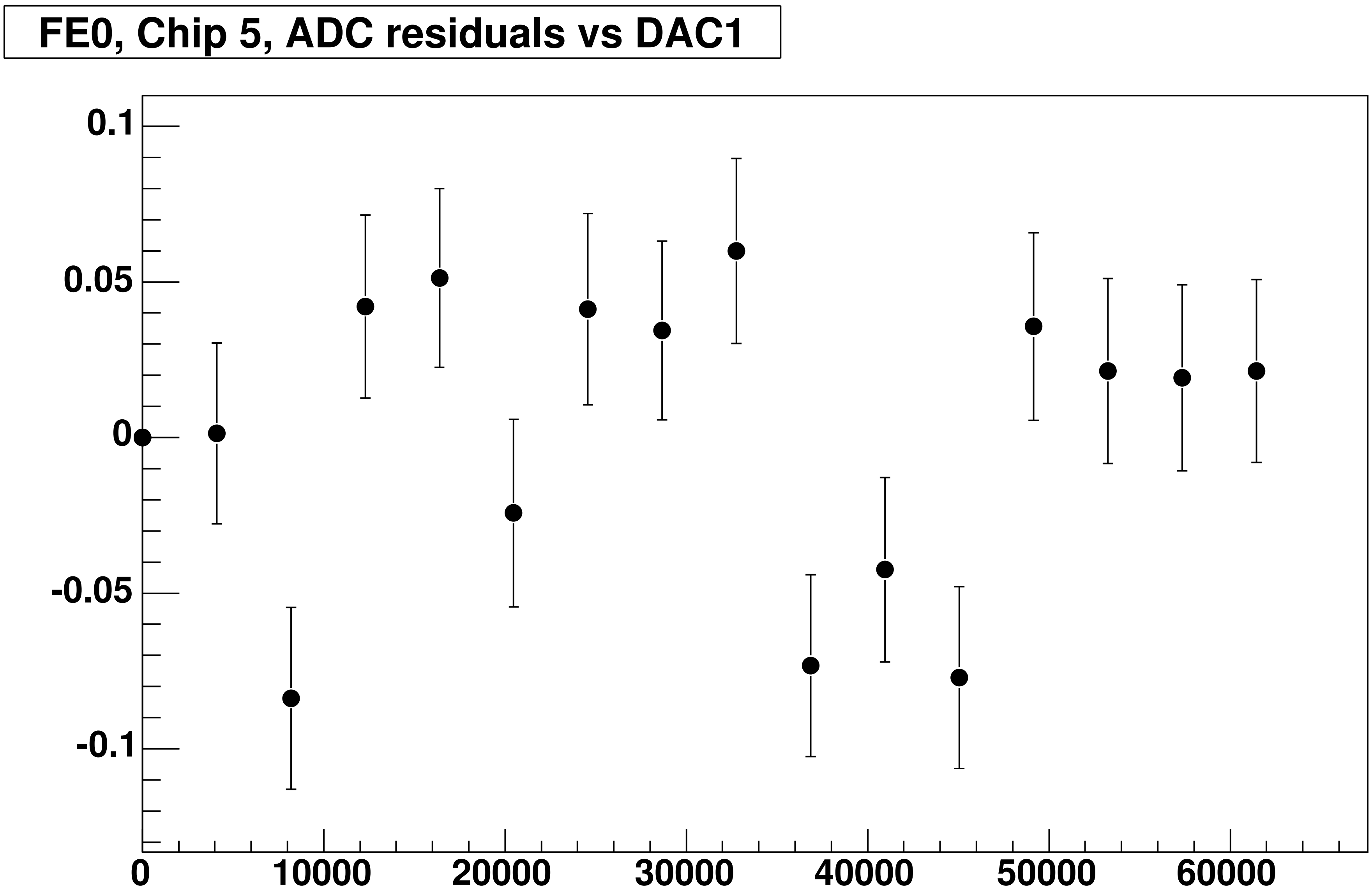


FE0, Chip 5, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

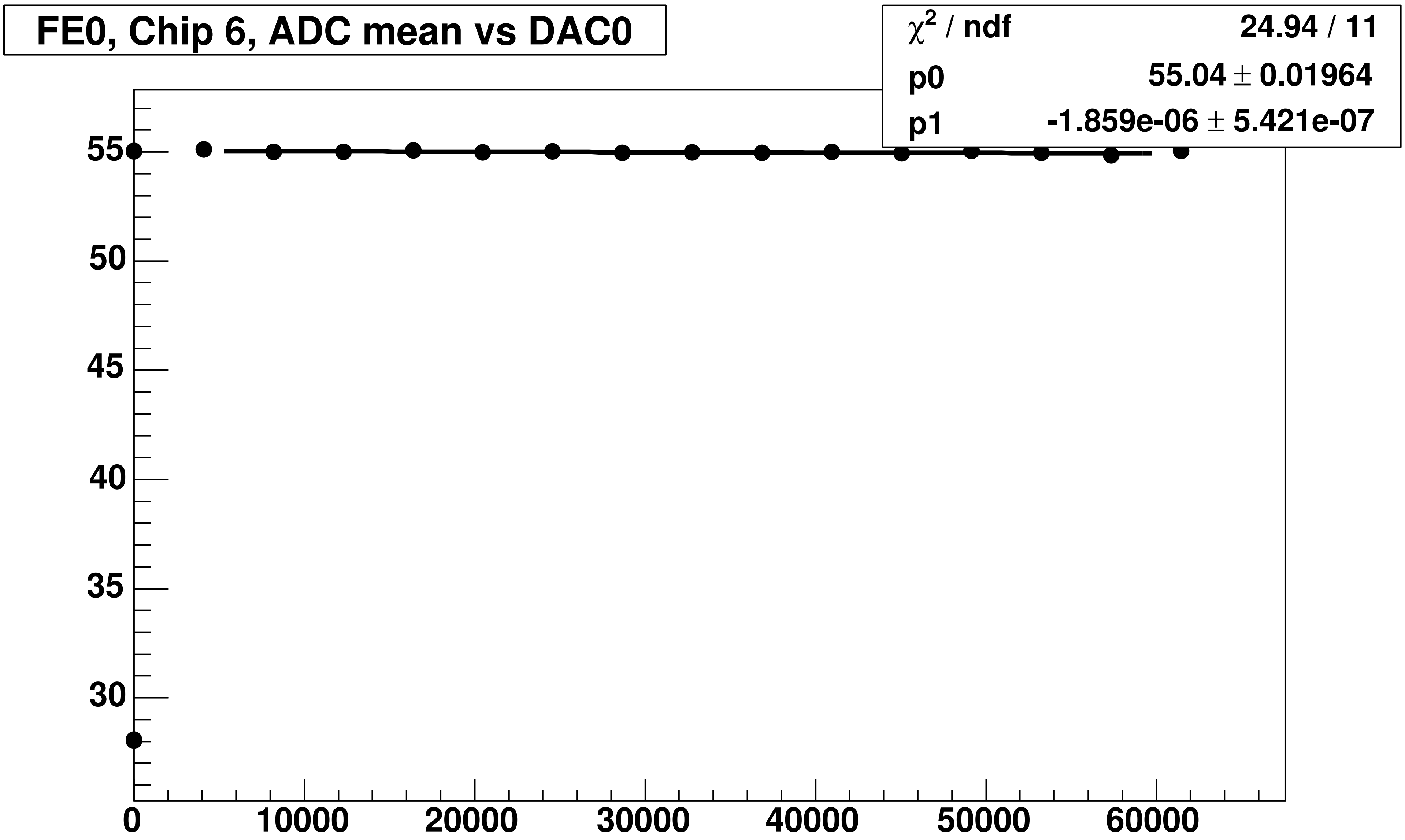

FE0, Chip 5, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

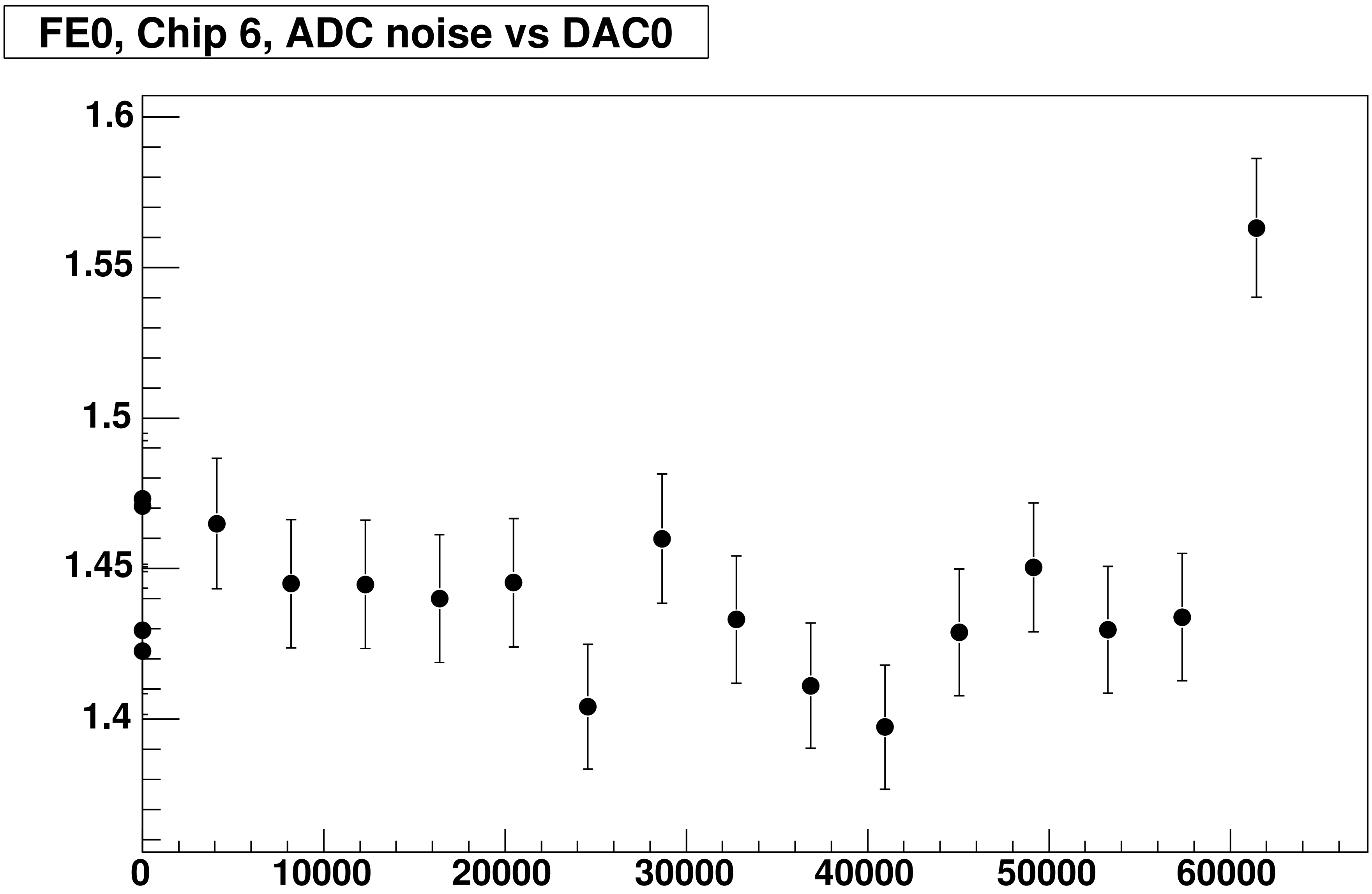

FE0, Chip 5, ADC mean vs DAC1
χ^2 / ndf 39.1 / 11
p0 73.77 ± 0.01927
p1 2.011e-06 ± 5.348e-07
80
70
60
50
40
30
20
10
0
-10
0
10000
20000
30000
40000
50000
60000

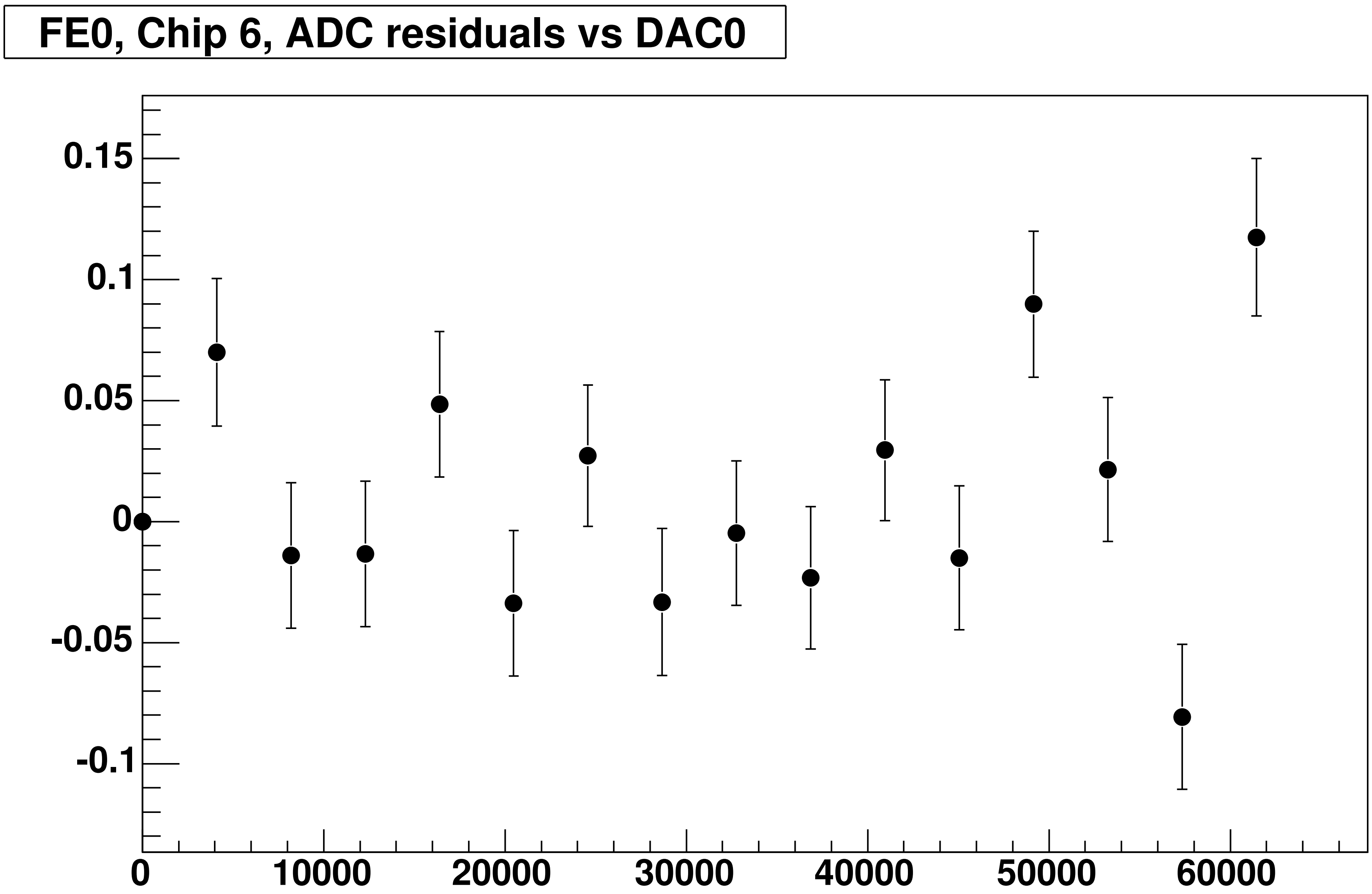

FE0, Chip 5, ADC noise vs DAC1
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000



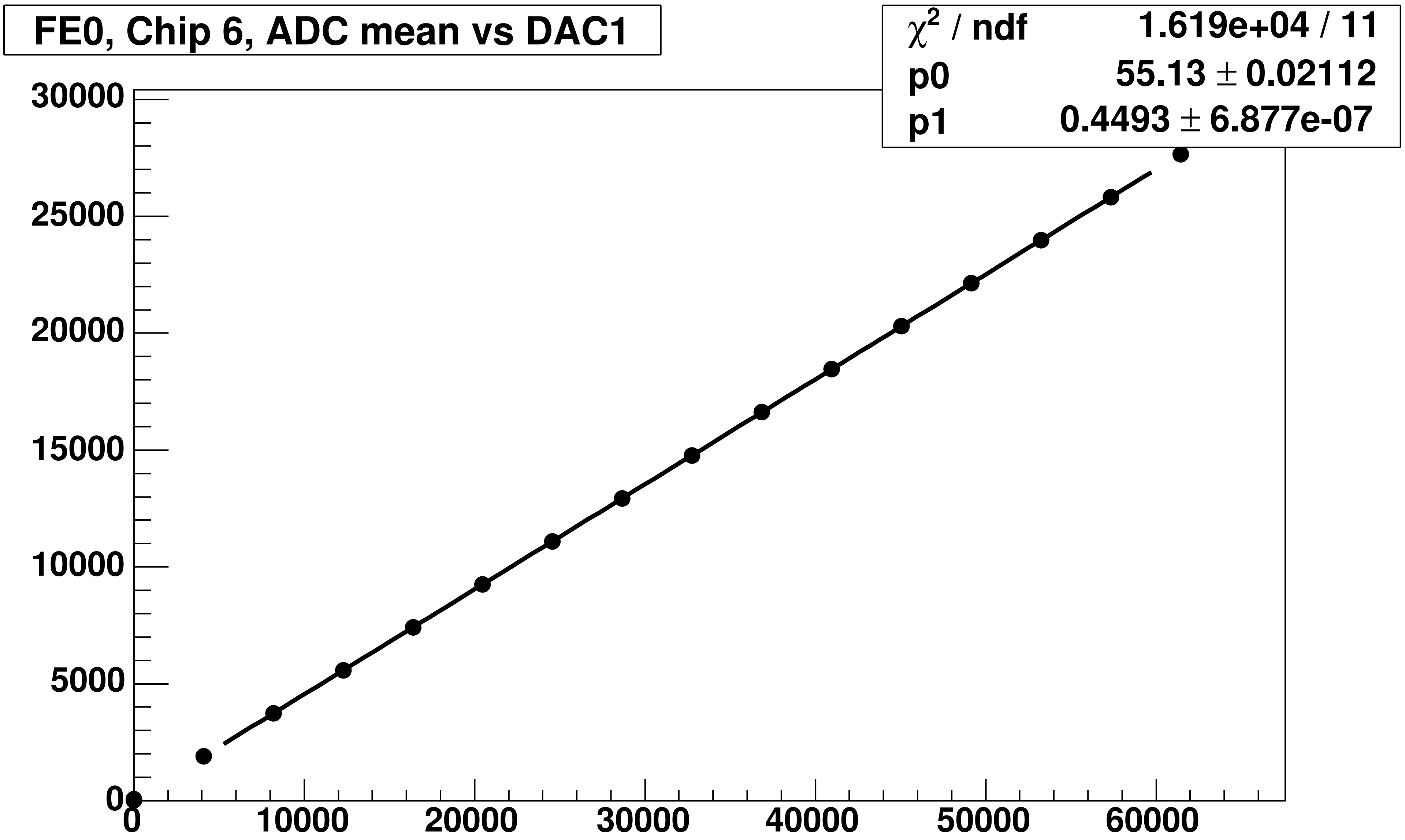
FE0, Chip 5, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000


FE0, Chip 6, ADC mean vs DAC0
χ2 / ndf 24.94 / 11
p0 55.04 ± 0.01964
p1 -1.859e-06 ± 5.421e-07
55
50
45
40
35
30
0
10000
20000
30000
40000
50000
60000

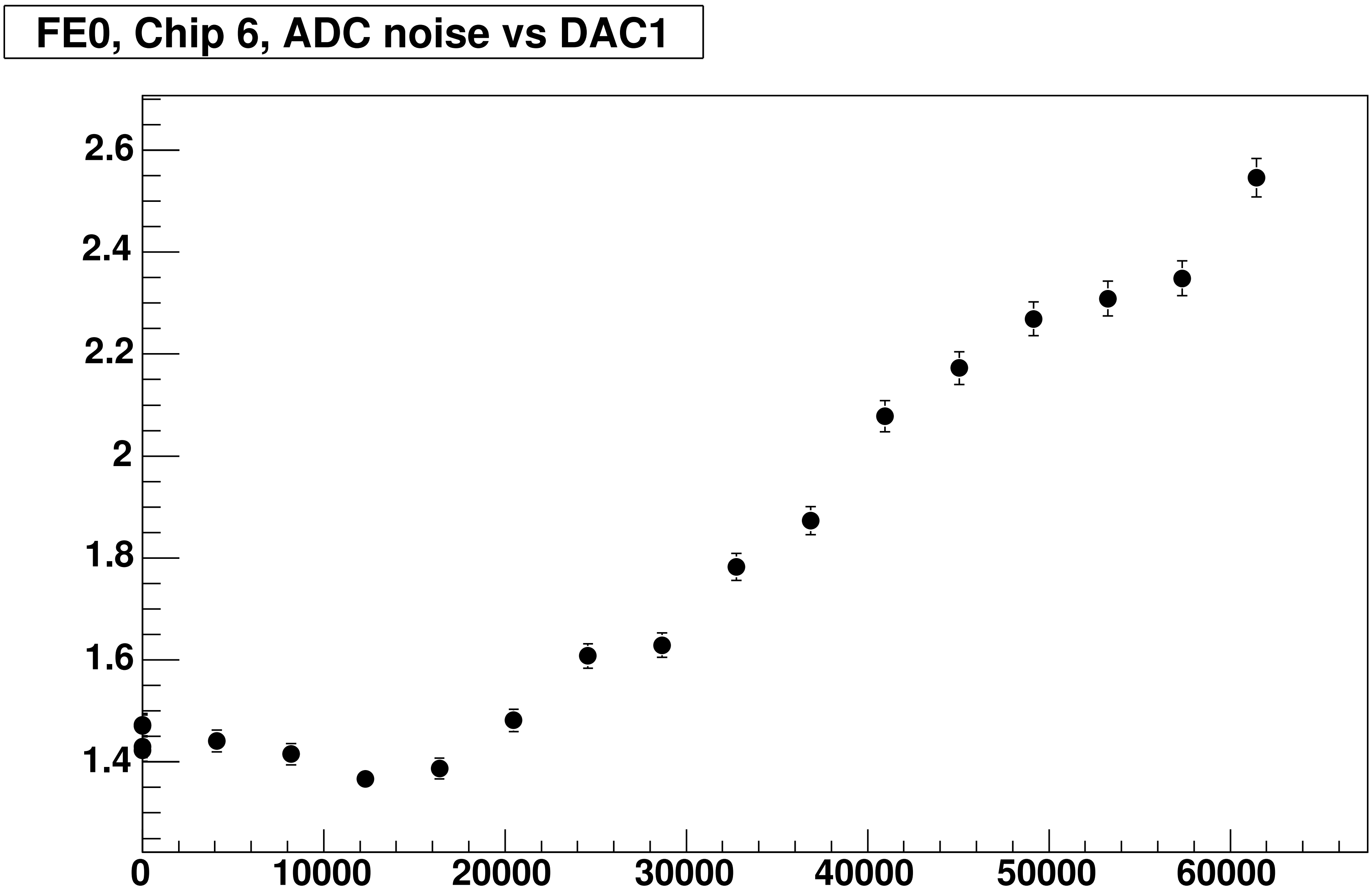

FE0, Chip 6, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000



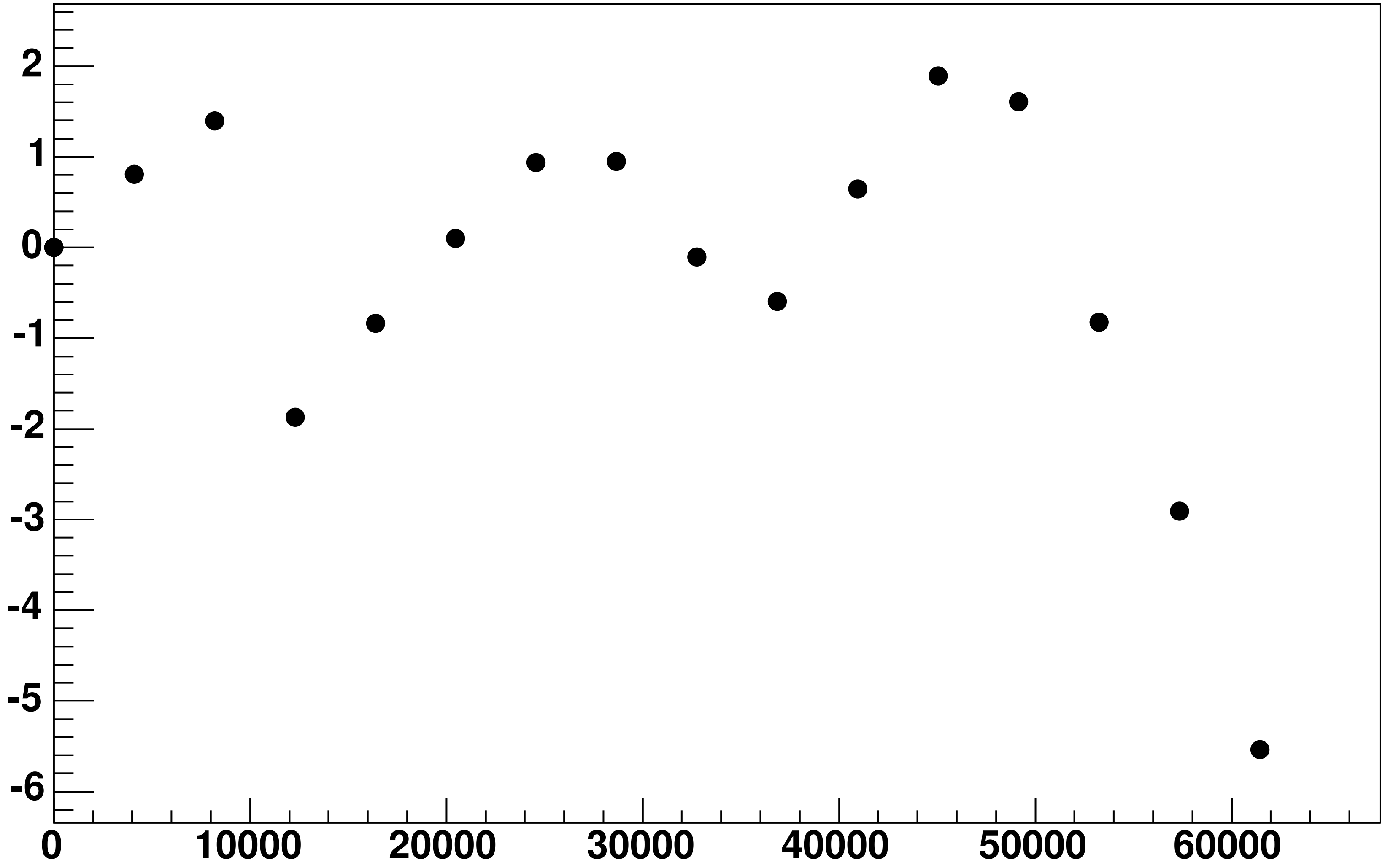
FE0, Chip 6, ADC residuals vs DAC0
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

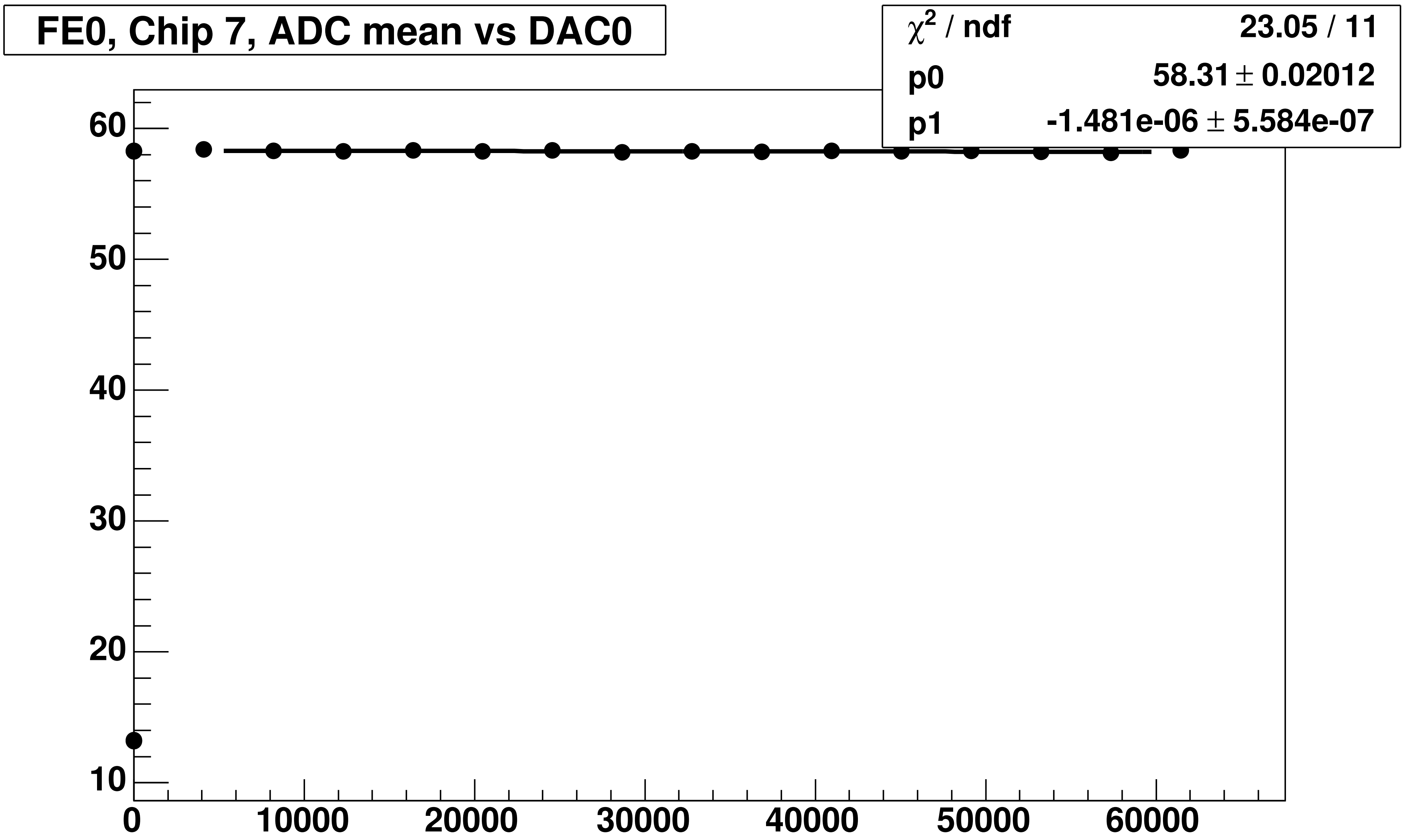


FE0, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1.619e+04 / 11
p0 55.13 ± 0.02112
p1 0.4493 ± 6.877e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

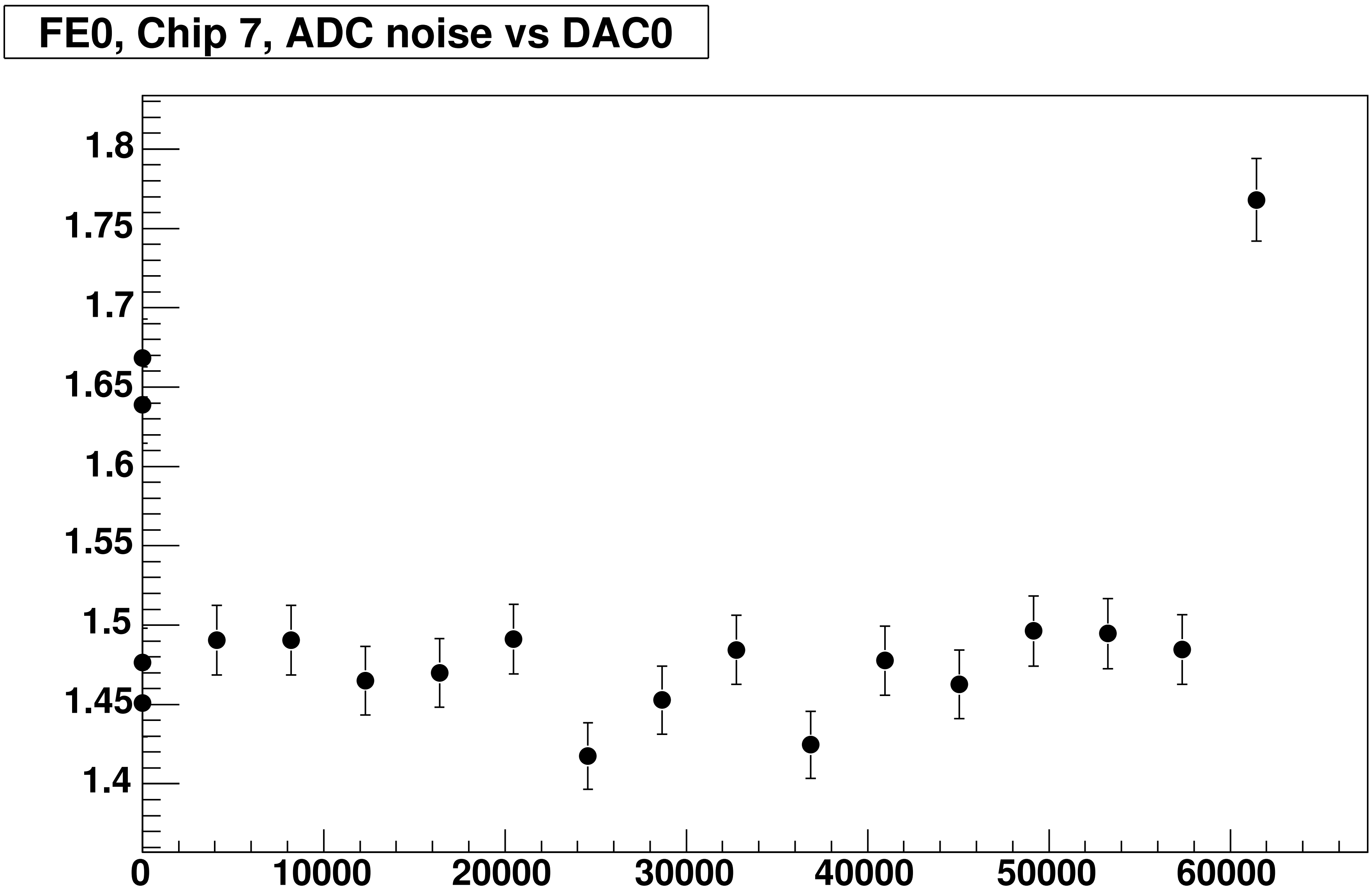

FE0, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

FE0, Chip 6, ADC residuals vs DAC1

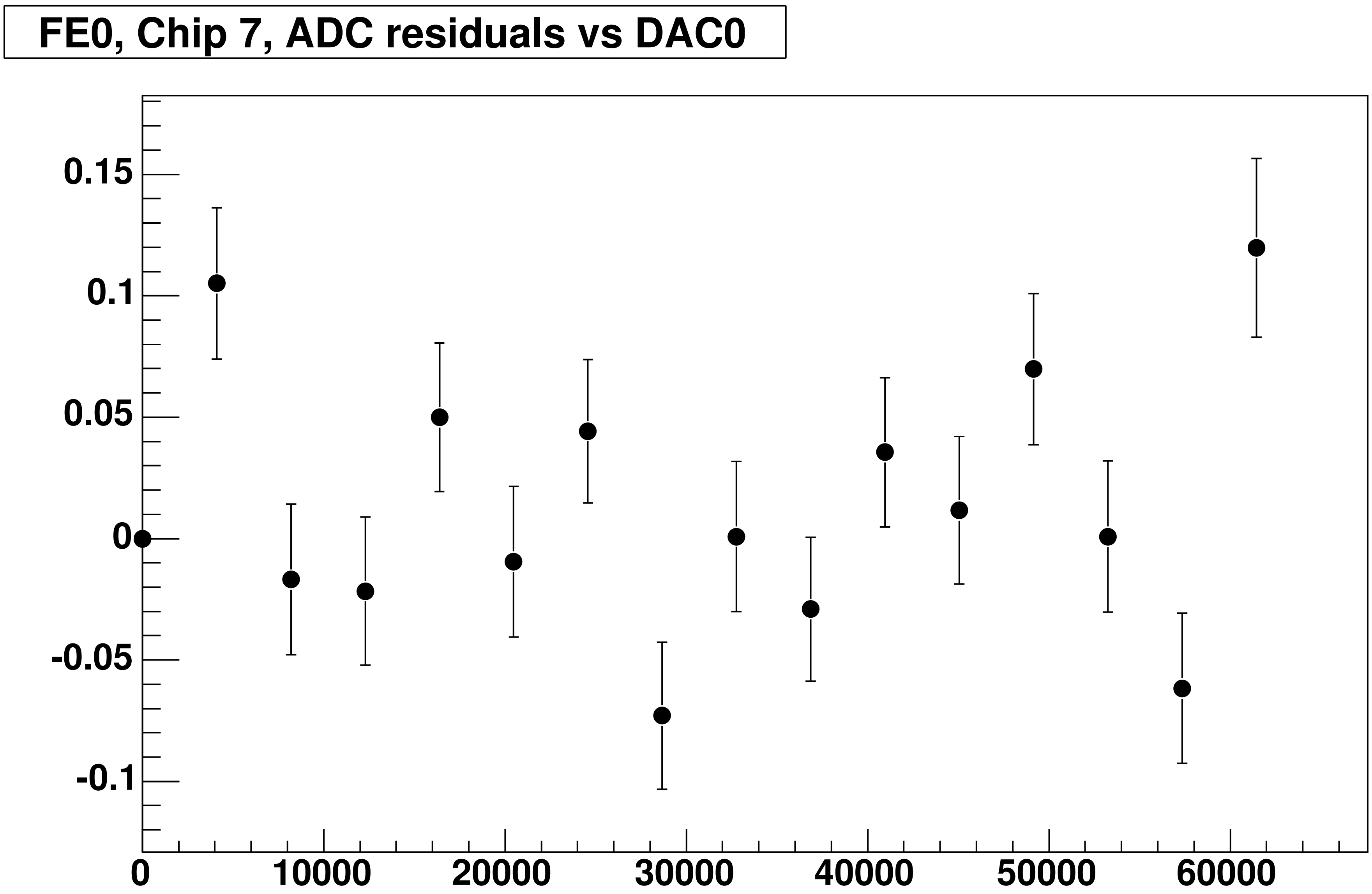


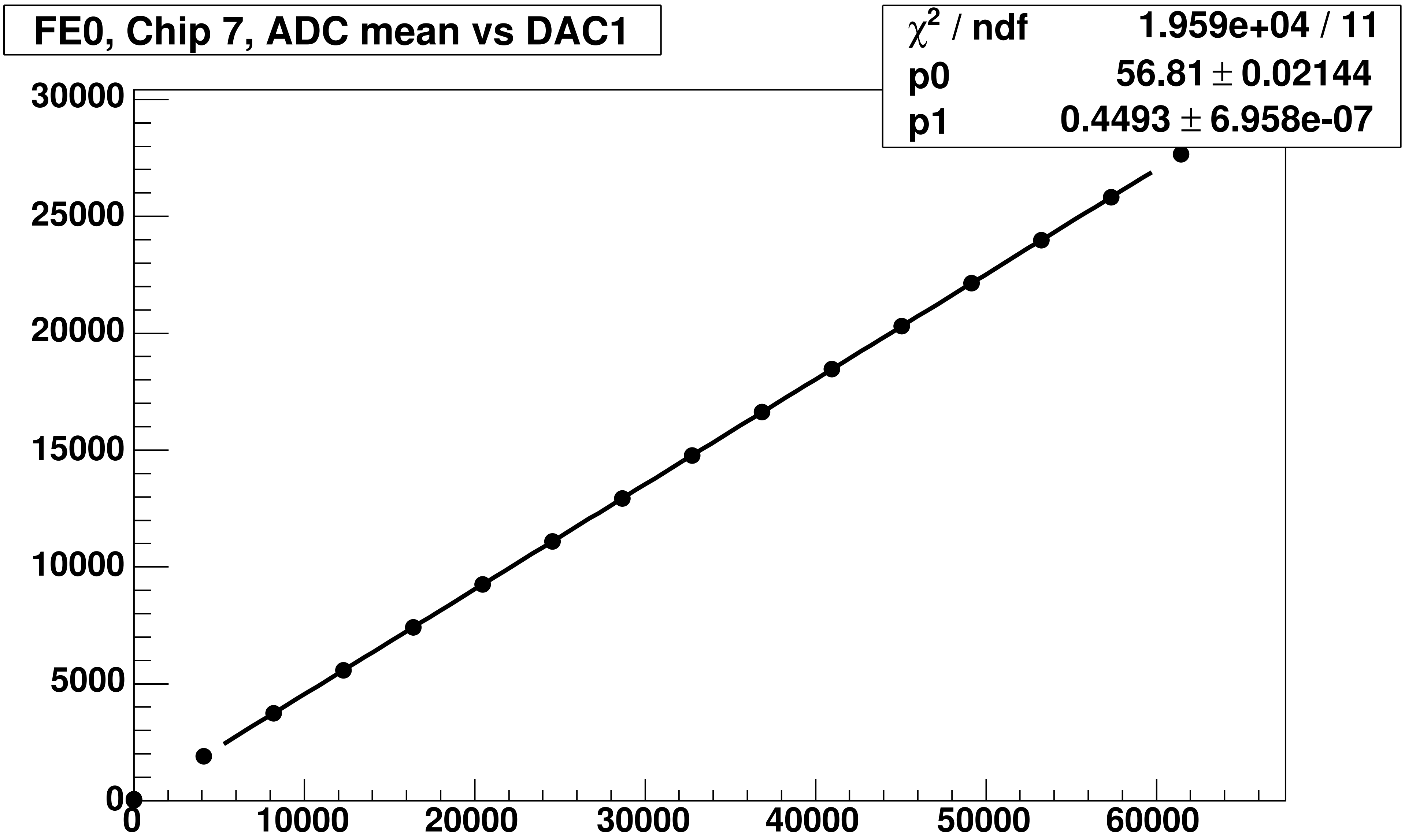


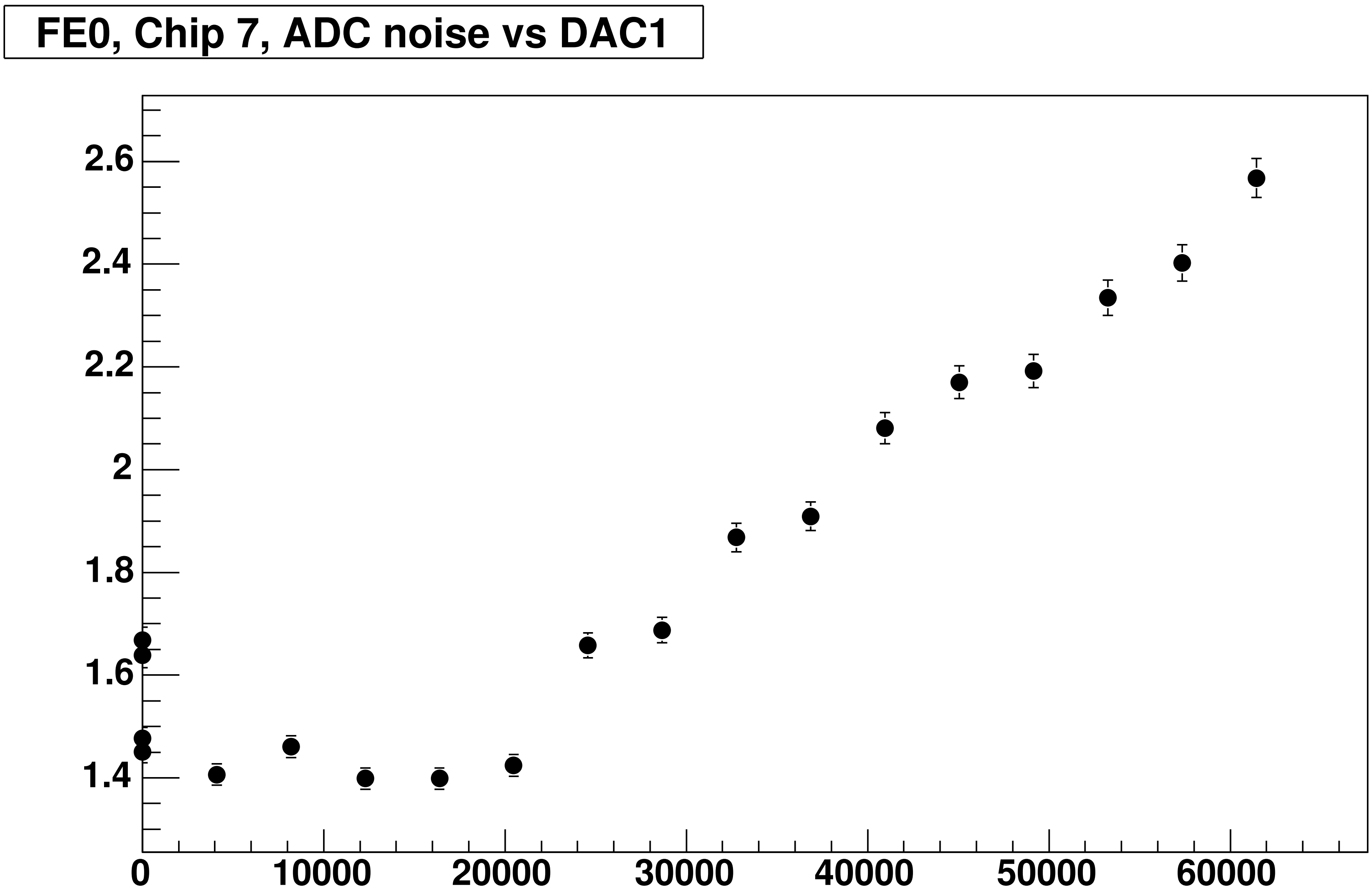
FE0, Chip 7, ADC mean vs DAC0
χ^2 / ndf 23.05 / 11
p0 58.31 ± 0.02012
p1 -1.481e-06 ± 5.584e-07
60
50
40
30
20
10
0
10000
20000
30000
40000
50000
60000

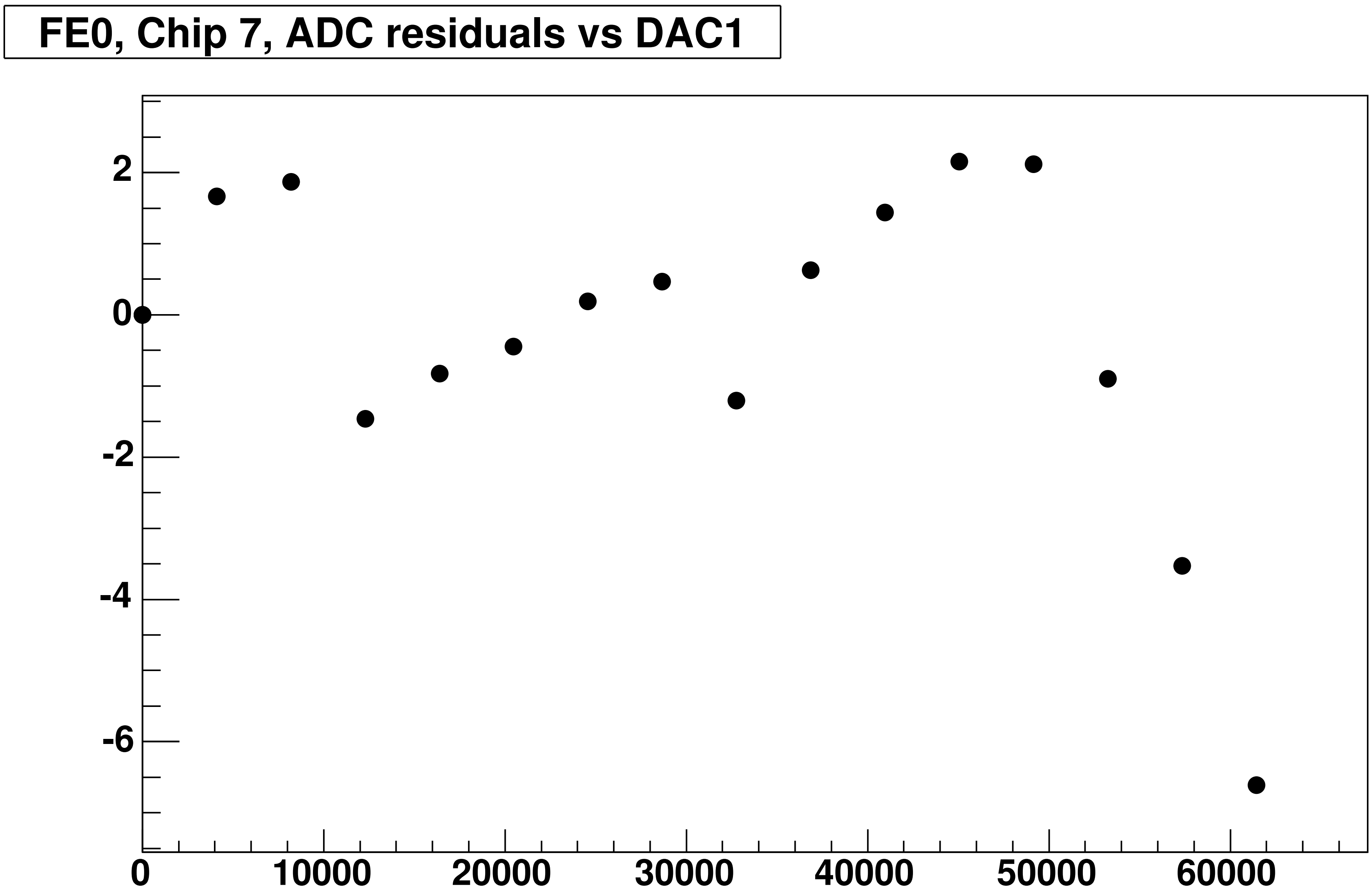


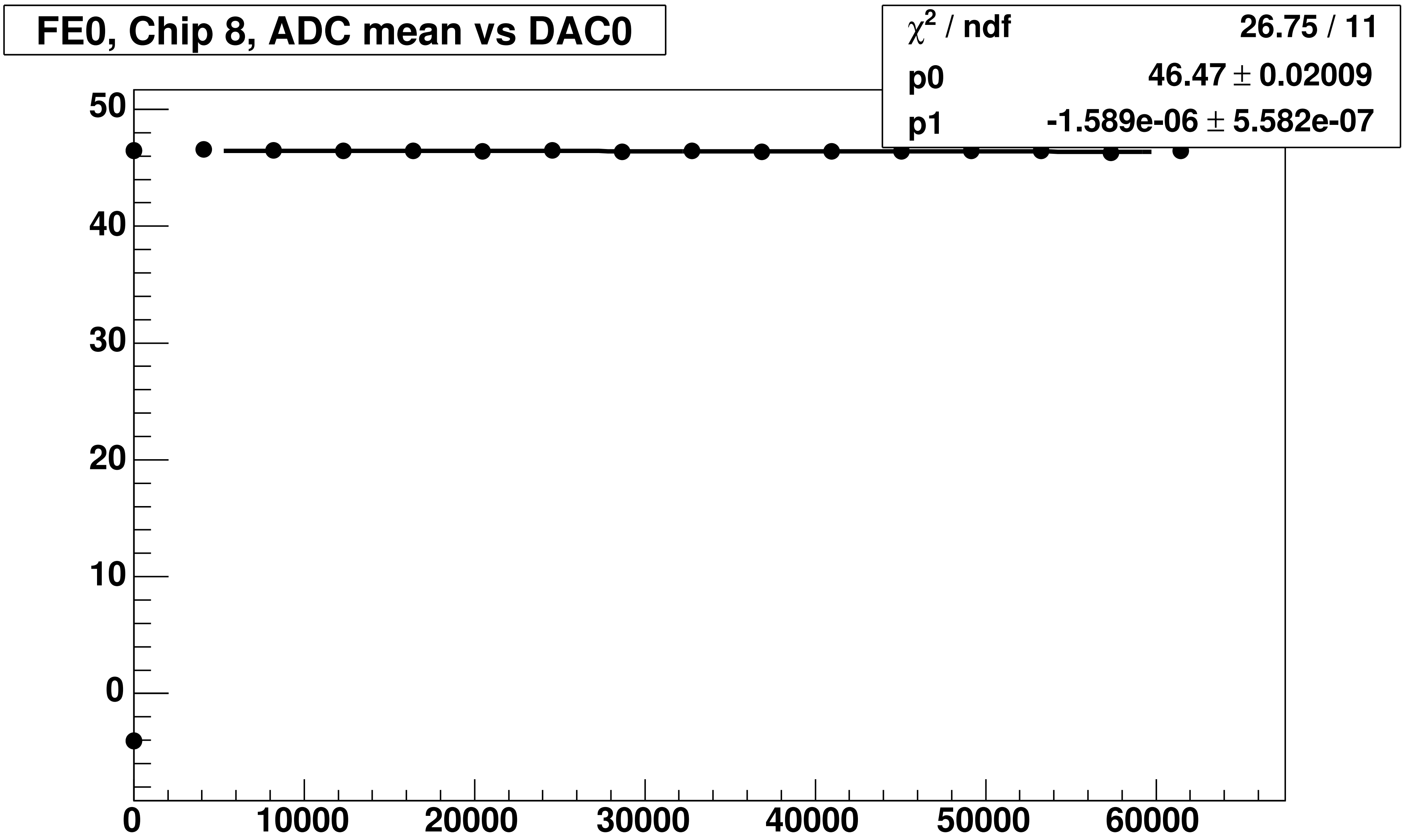
FE0, Chip 7, ADC noise vs DAC0
1.8
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


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

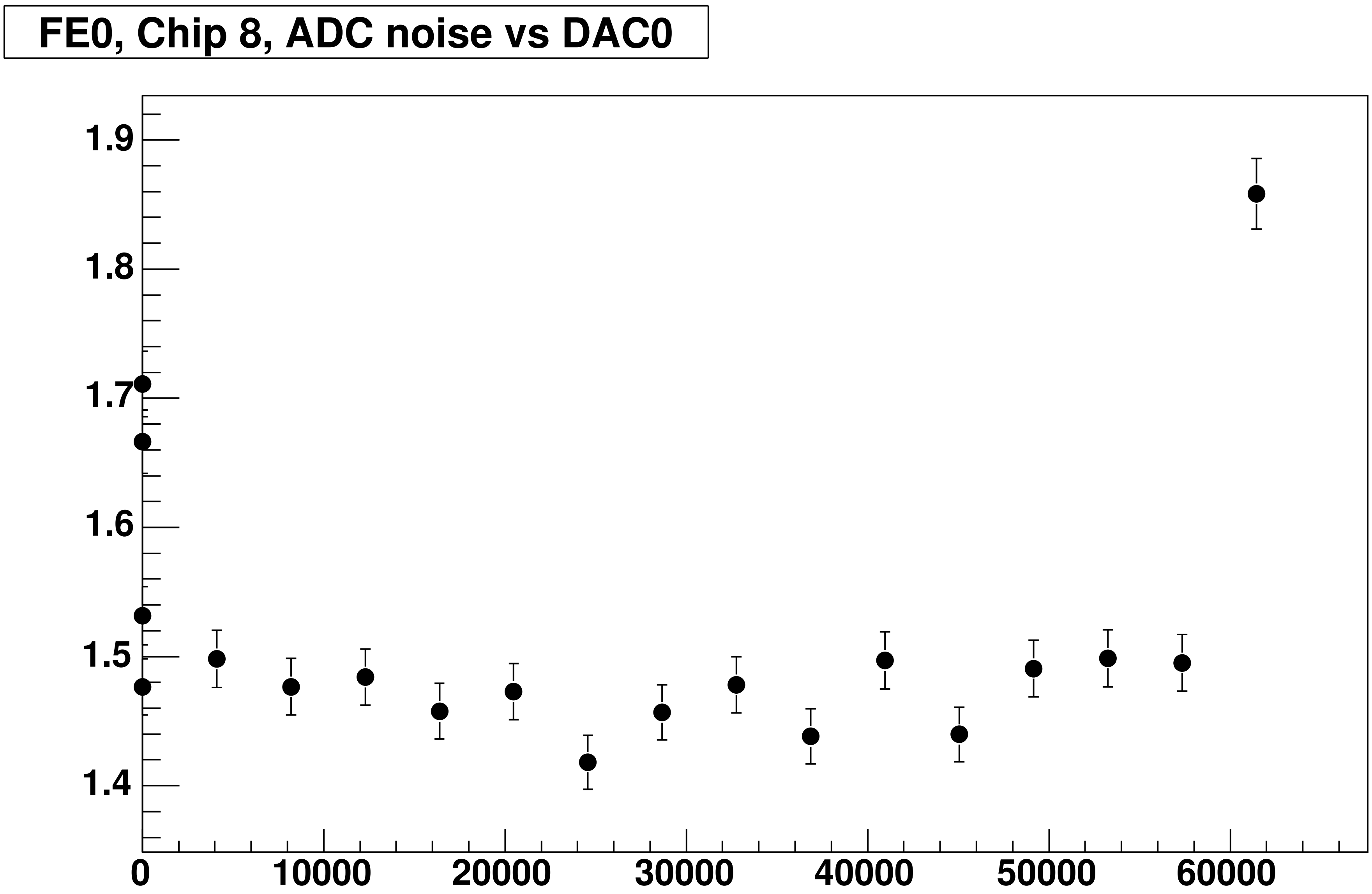

FE0, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1.959e+04 / 11
p0 56.81 ± 0.02144
p1 0.4493 ± 6.958e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

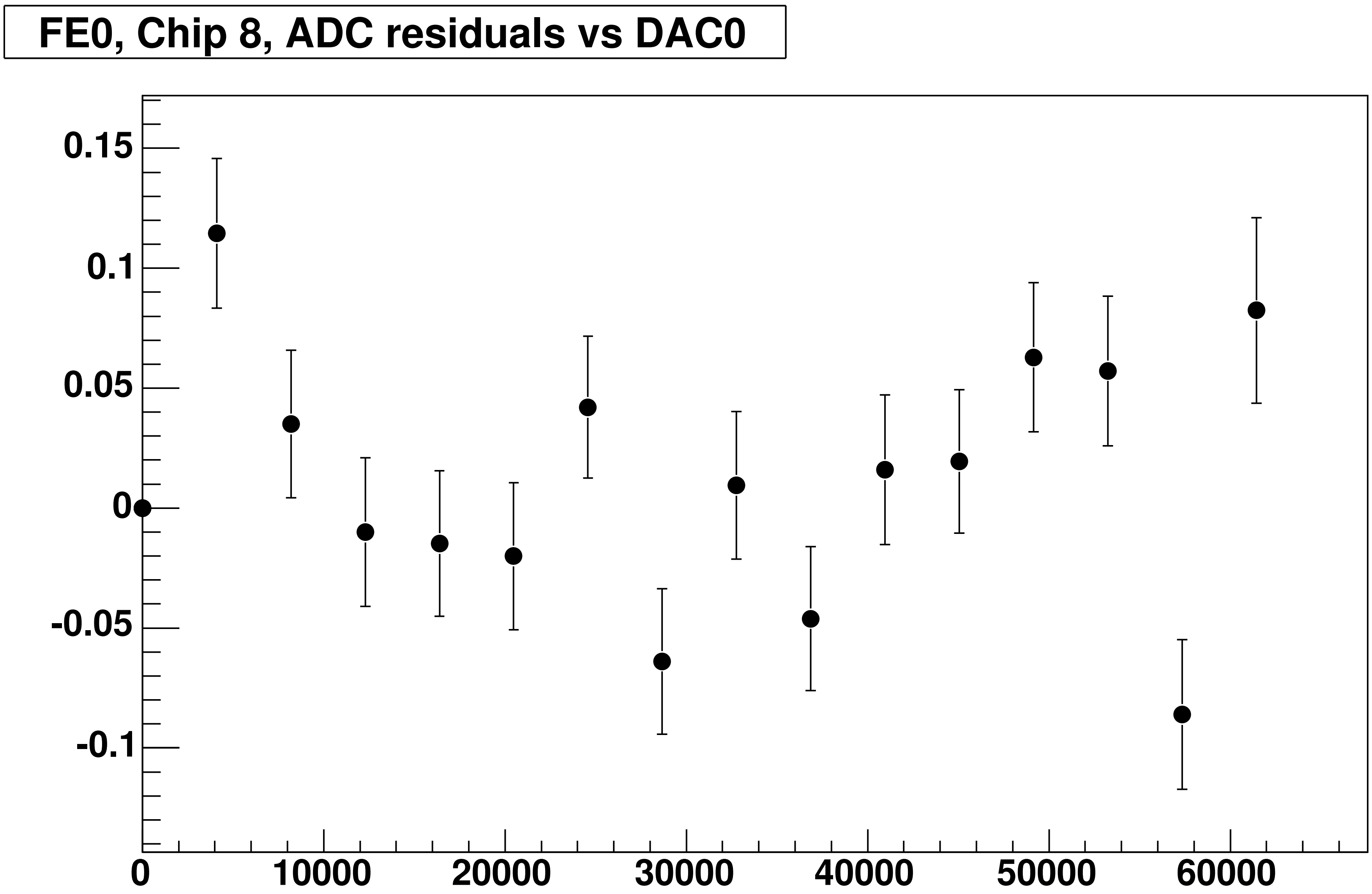

FE0, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000



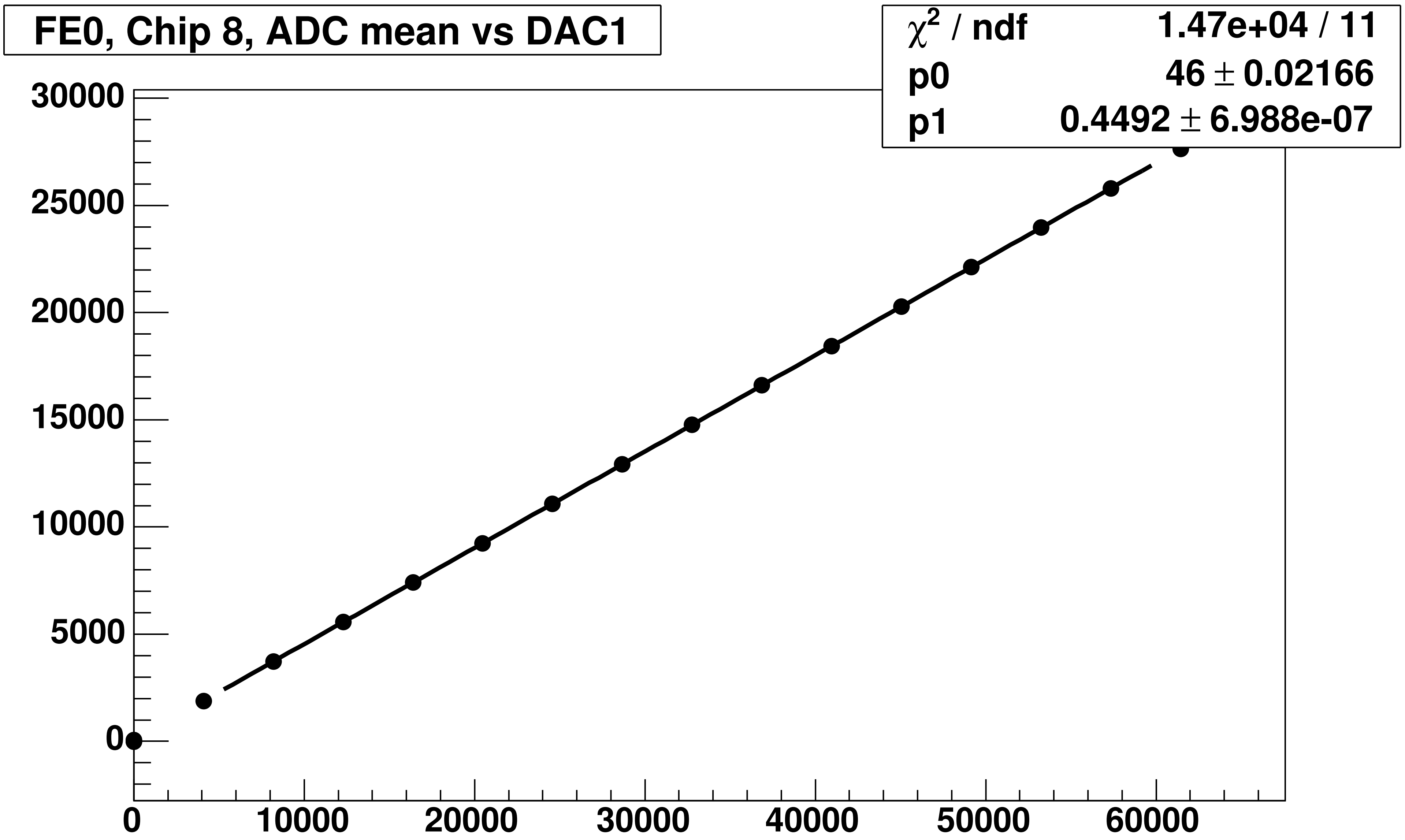
FE0, Chip 8, ADC mean vs DAC0
χ^2 / ndf 26.75 / 11
p0 46.47 ± 0.02009
p1 -1.589e-06 ± 5.582e-07
50
40
30
20
10
0
0
10000
20000
30000
40000
50000
60000



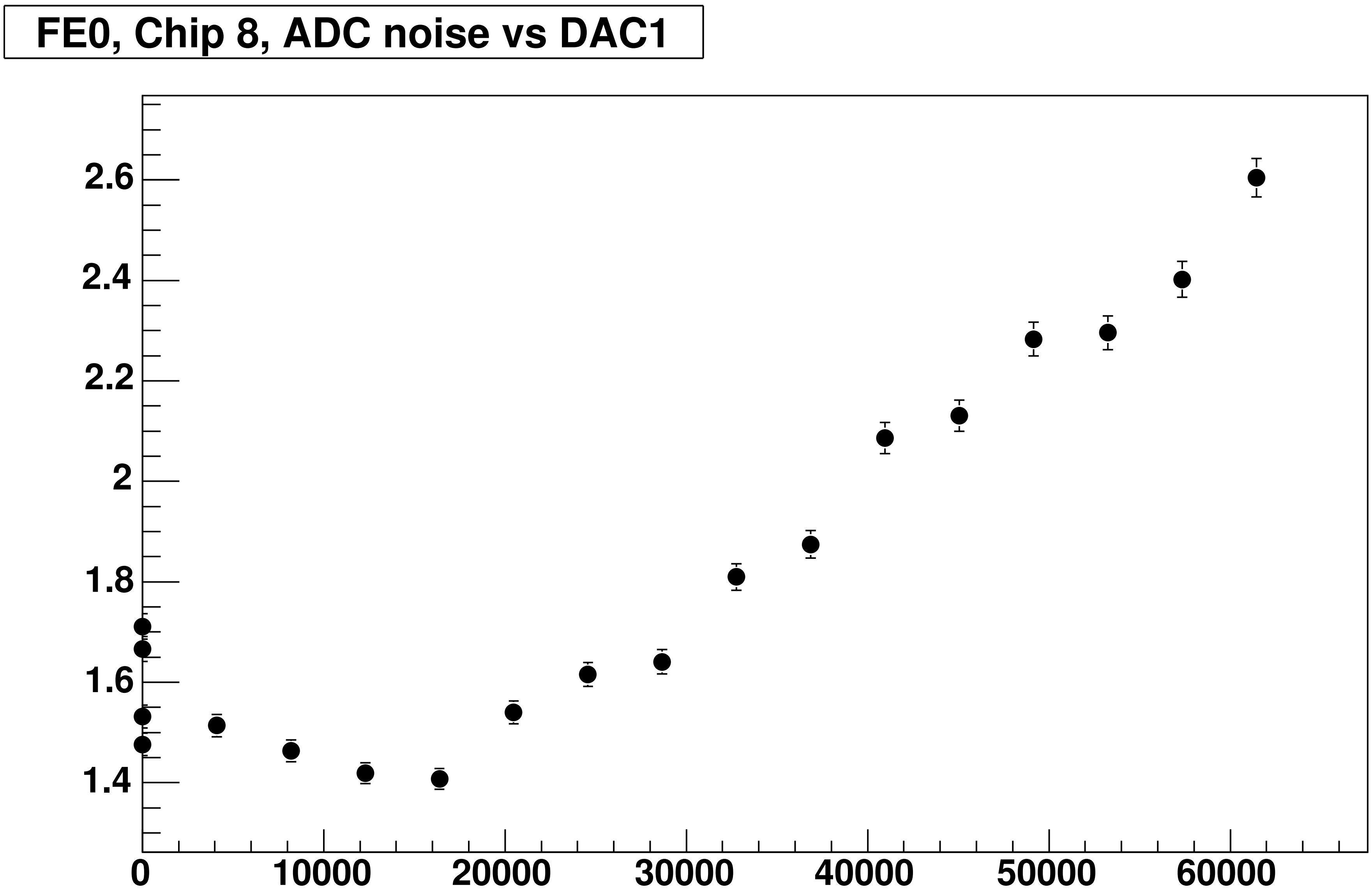
FE0, Chip 8, ADC noise vs DAC0
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

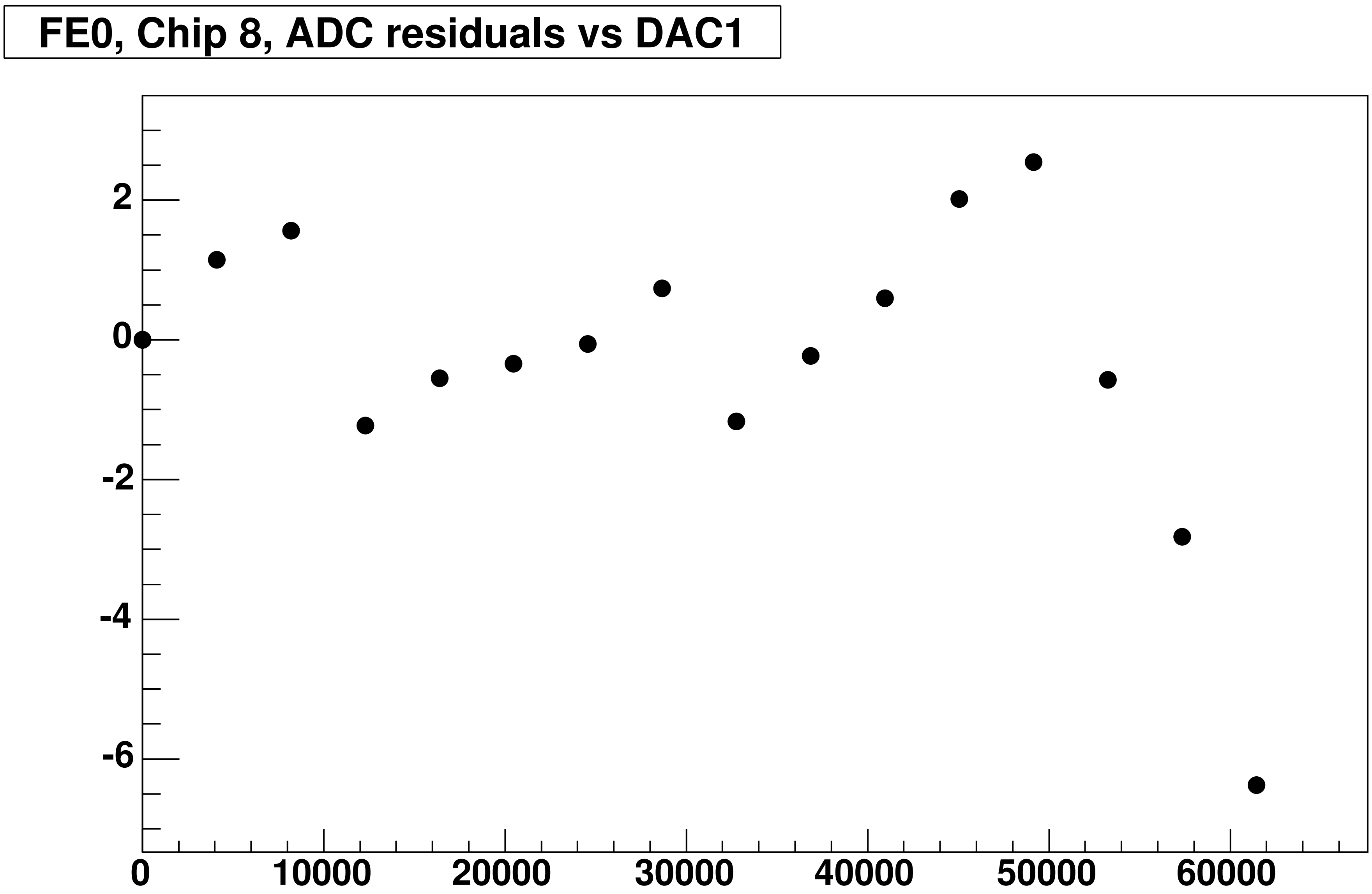


FE0, Chip 8, ADC residuals vs DAC0
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

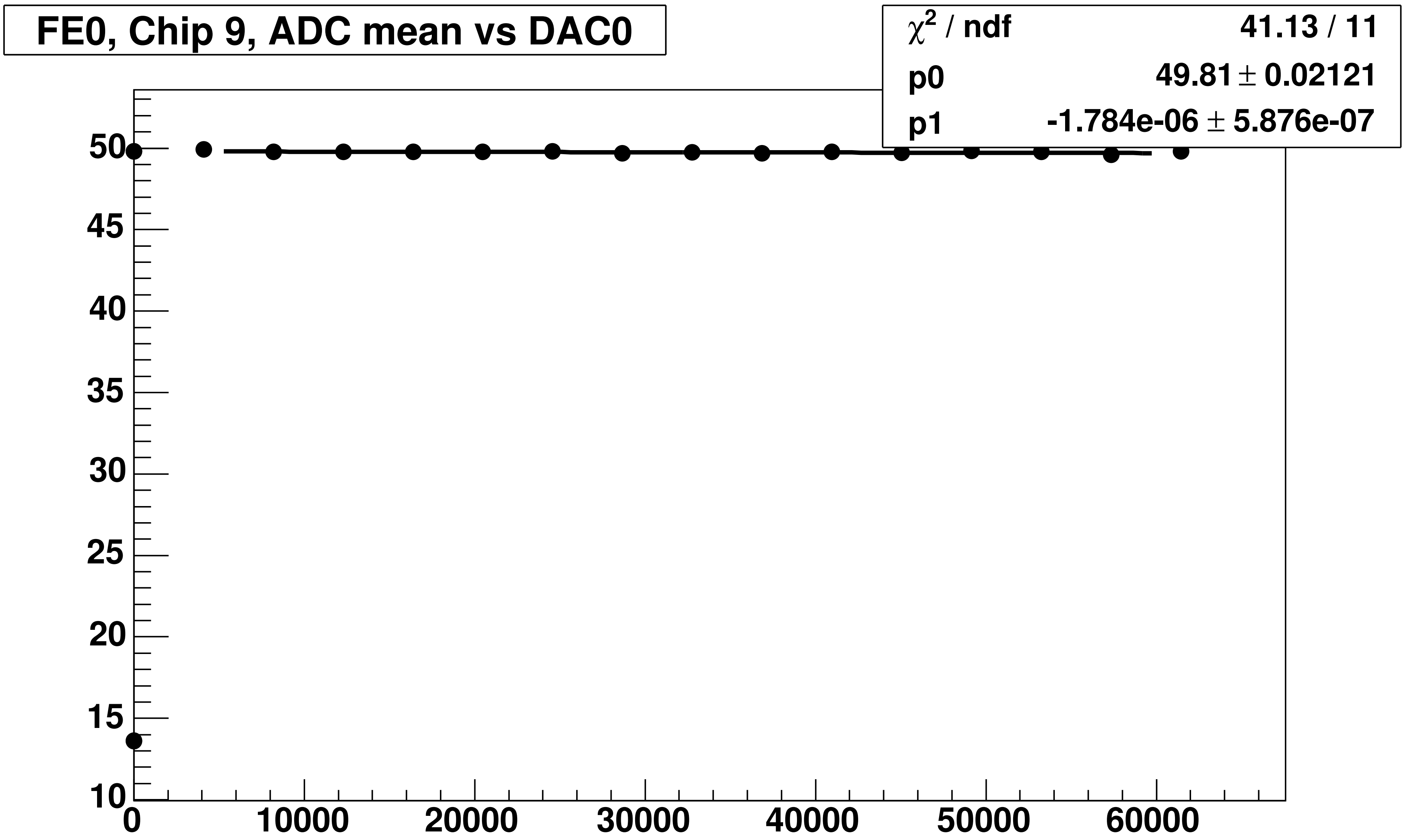


FE0, Chip 8, ADC mean vs DAC1
χ2 / ndf 1.47e+04 / 11
p0 46 ± 0.02166
p1 0.4492 ± 6.988e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

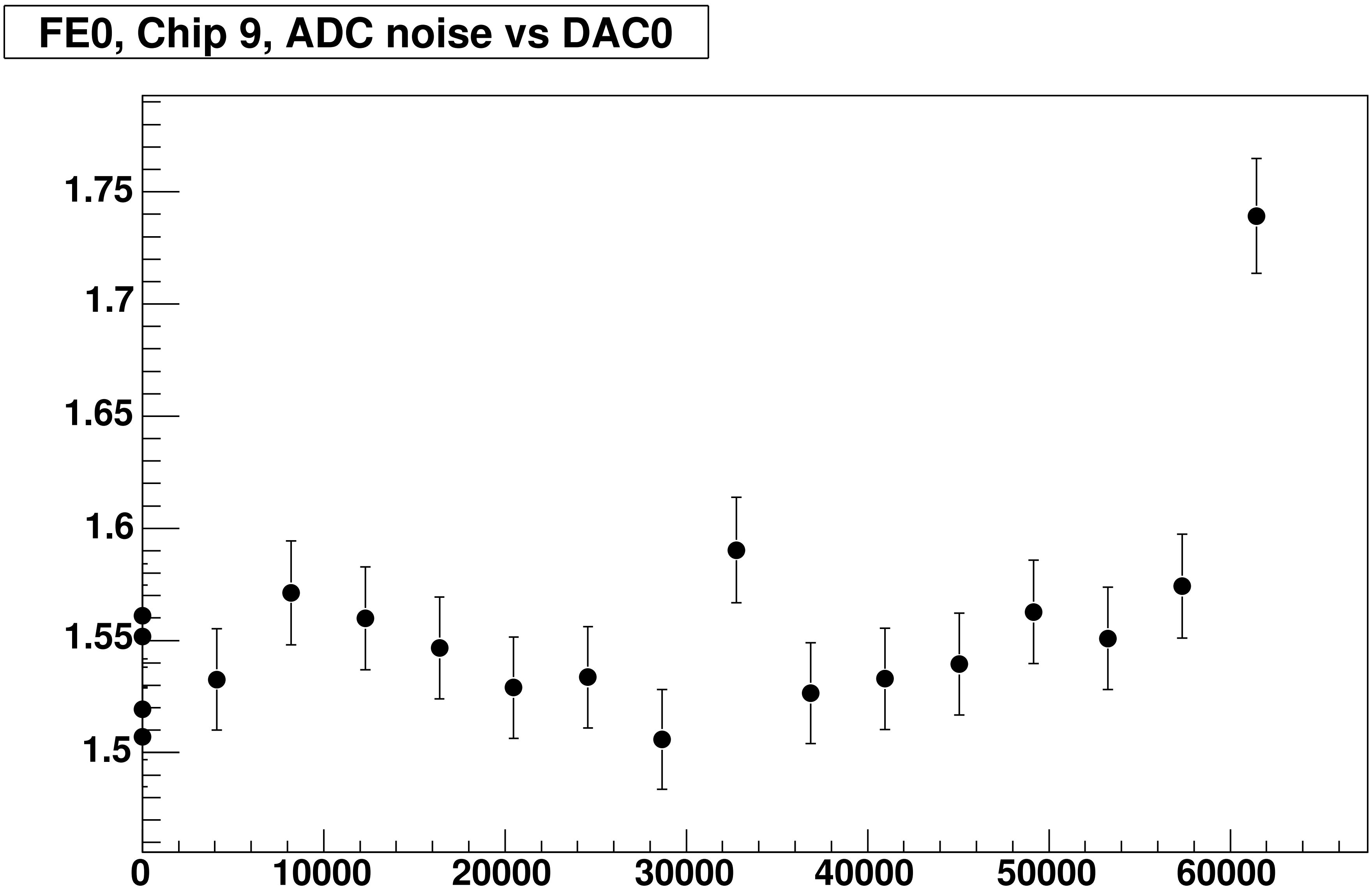

FE0, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

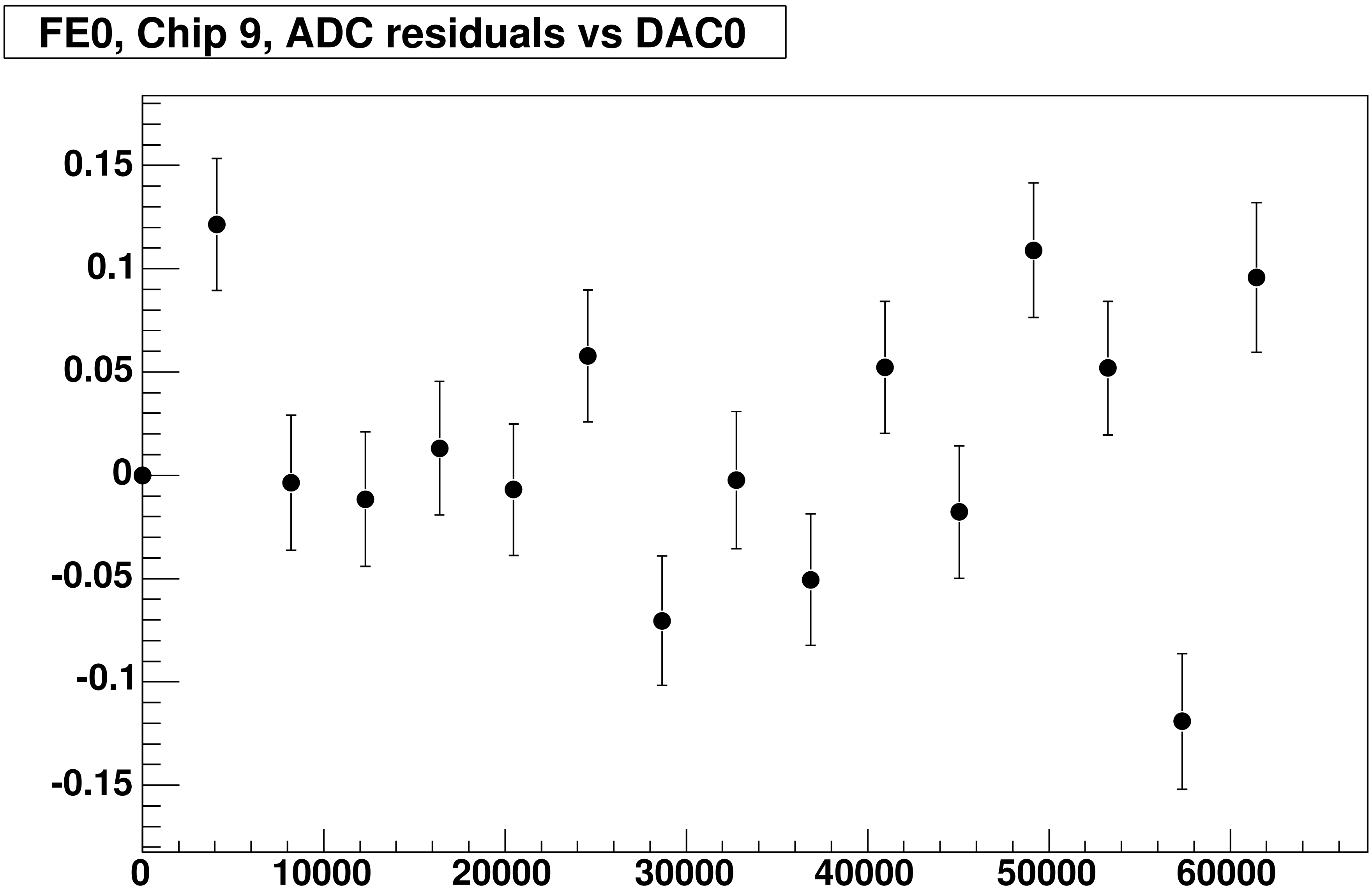


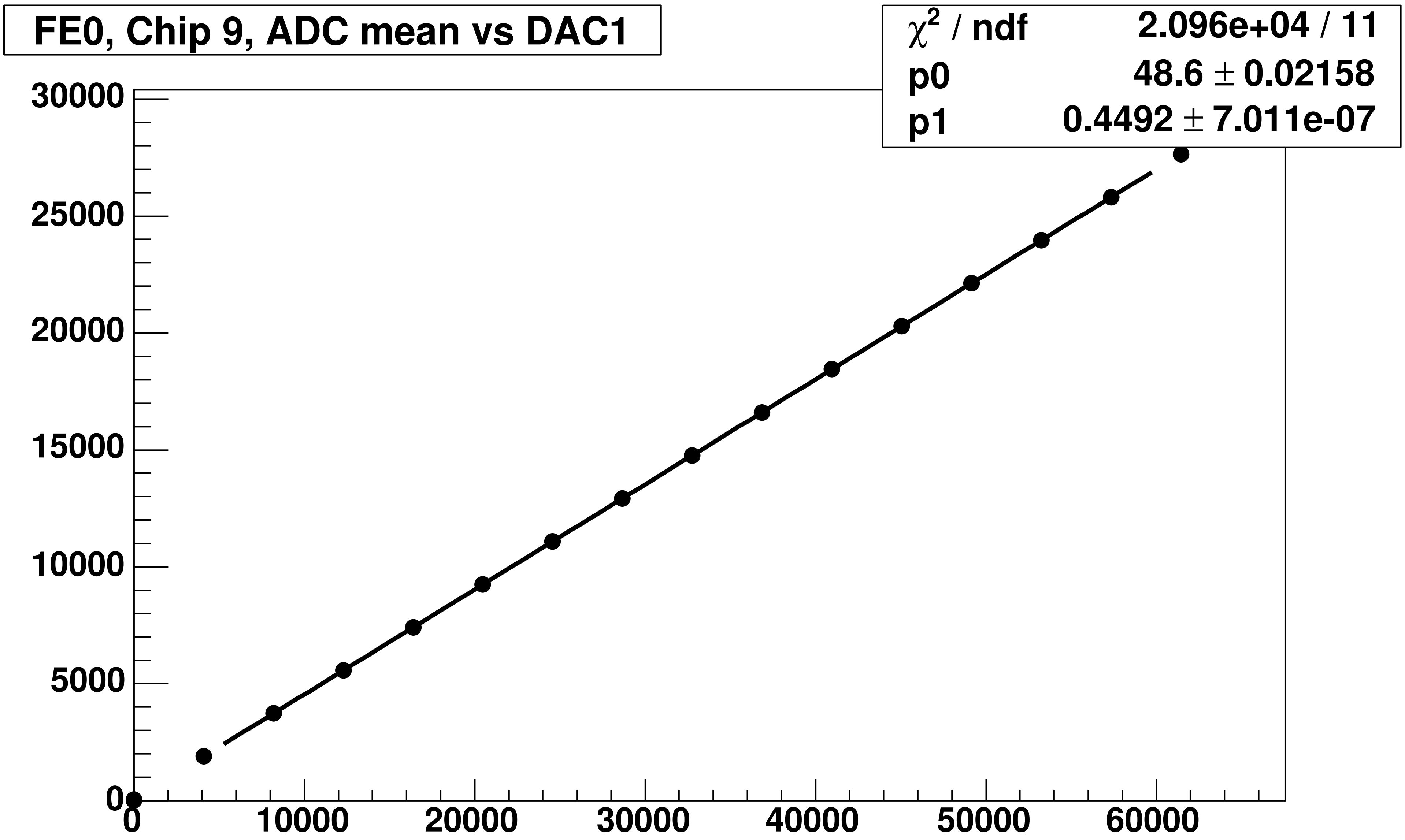
FE0, Chip 8, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000



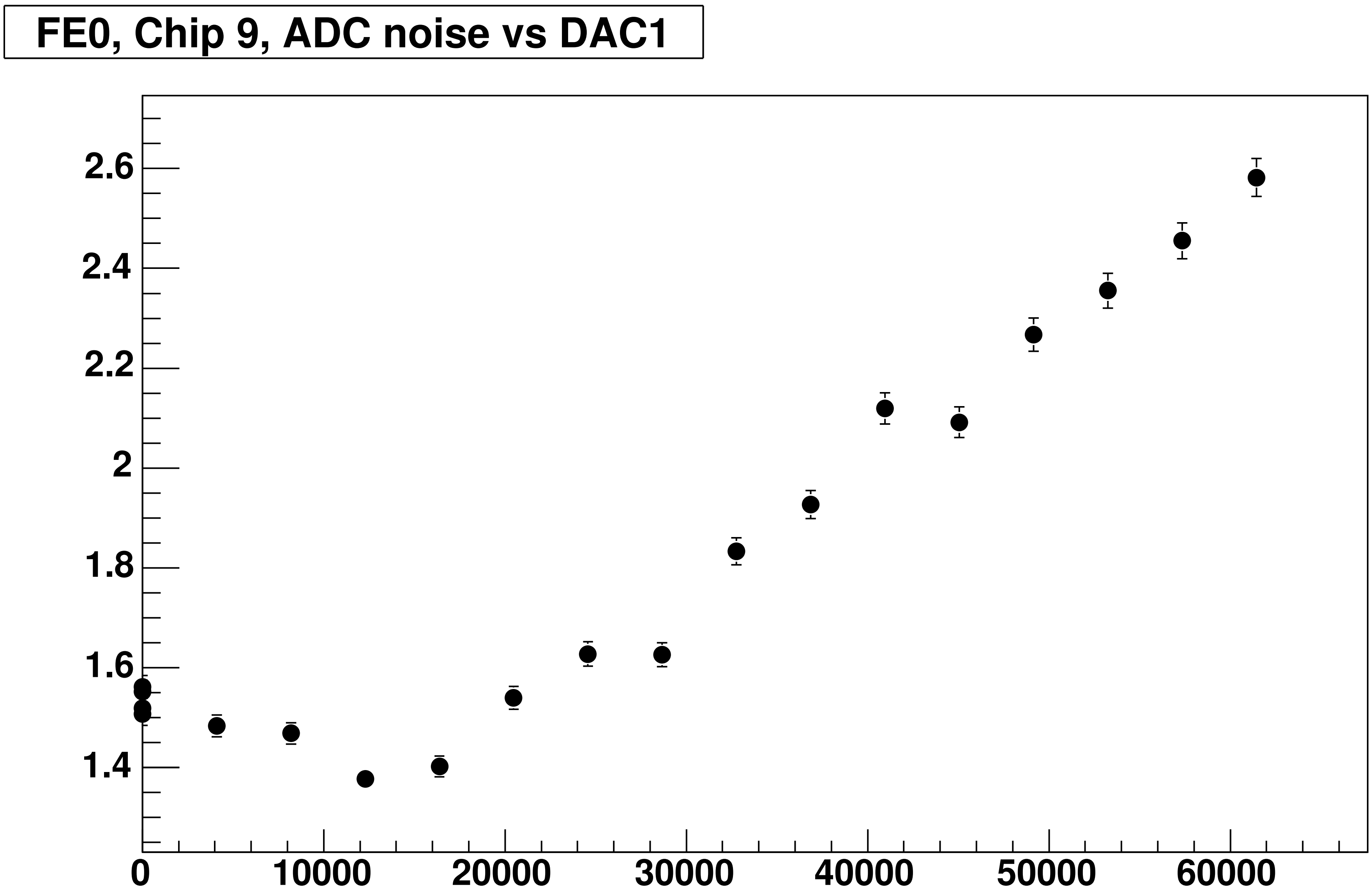
FE0, Chip 9, ADC mean vs DAC0
χ^2 / ndf 41.13 / 11
p0 49.81 ± 0.02121
p1 -1.784e-06 ± 5.876e-07
50
45
40
35
30
25
20
15
10
0
10000
20000
30000
40000
50000
60000

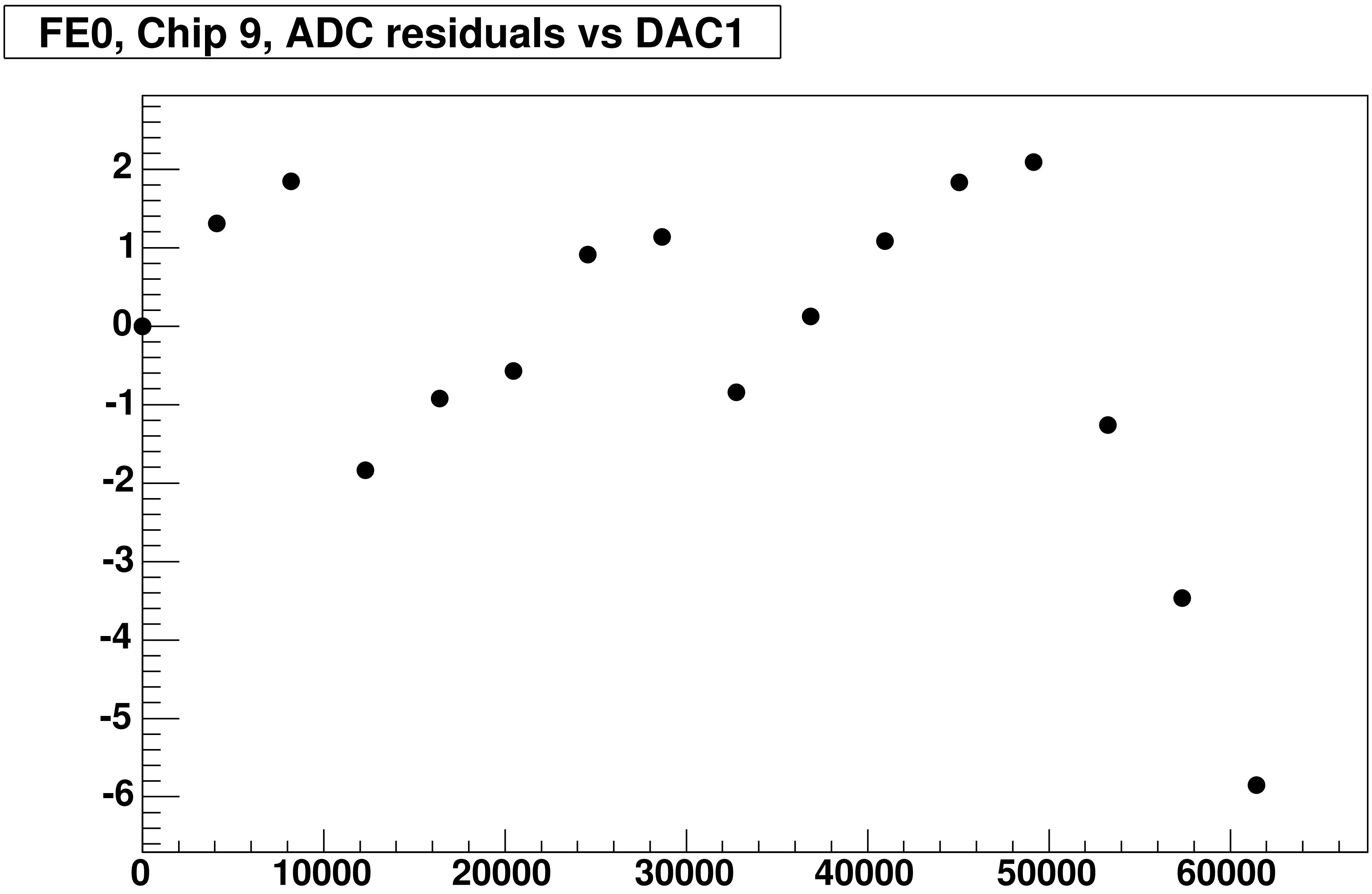

FE0, Chip 9, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
0
10000
20000
30000
40000
50000
60000


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

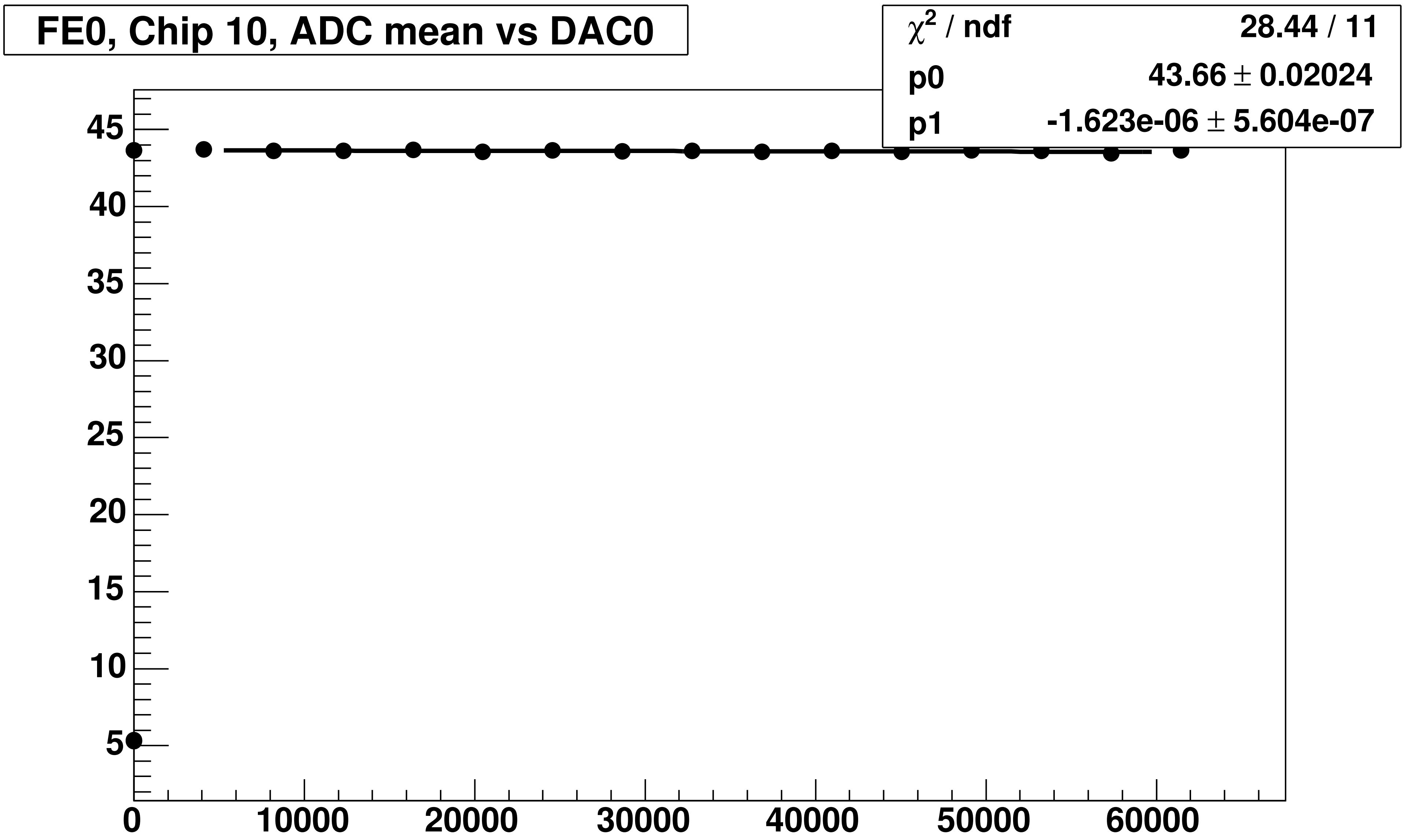


FE0, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2.096e+04 / 11
p0 48.6 ± 0.02158
p1 0.4492 ± 7.011e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

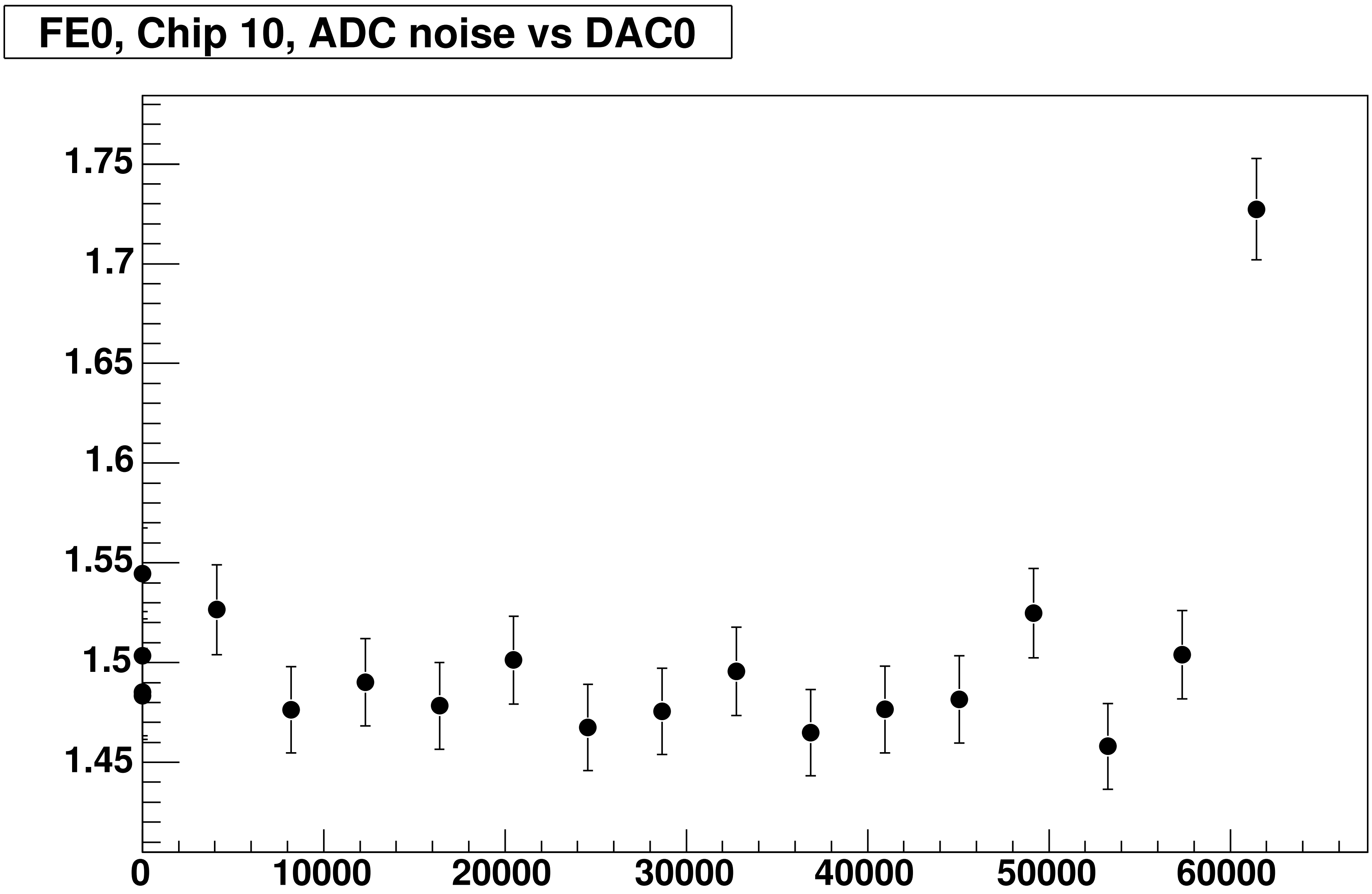

FE0, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

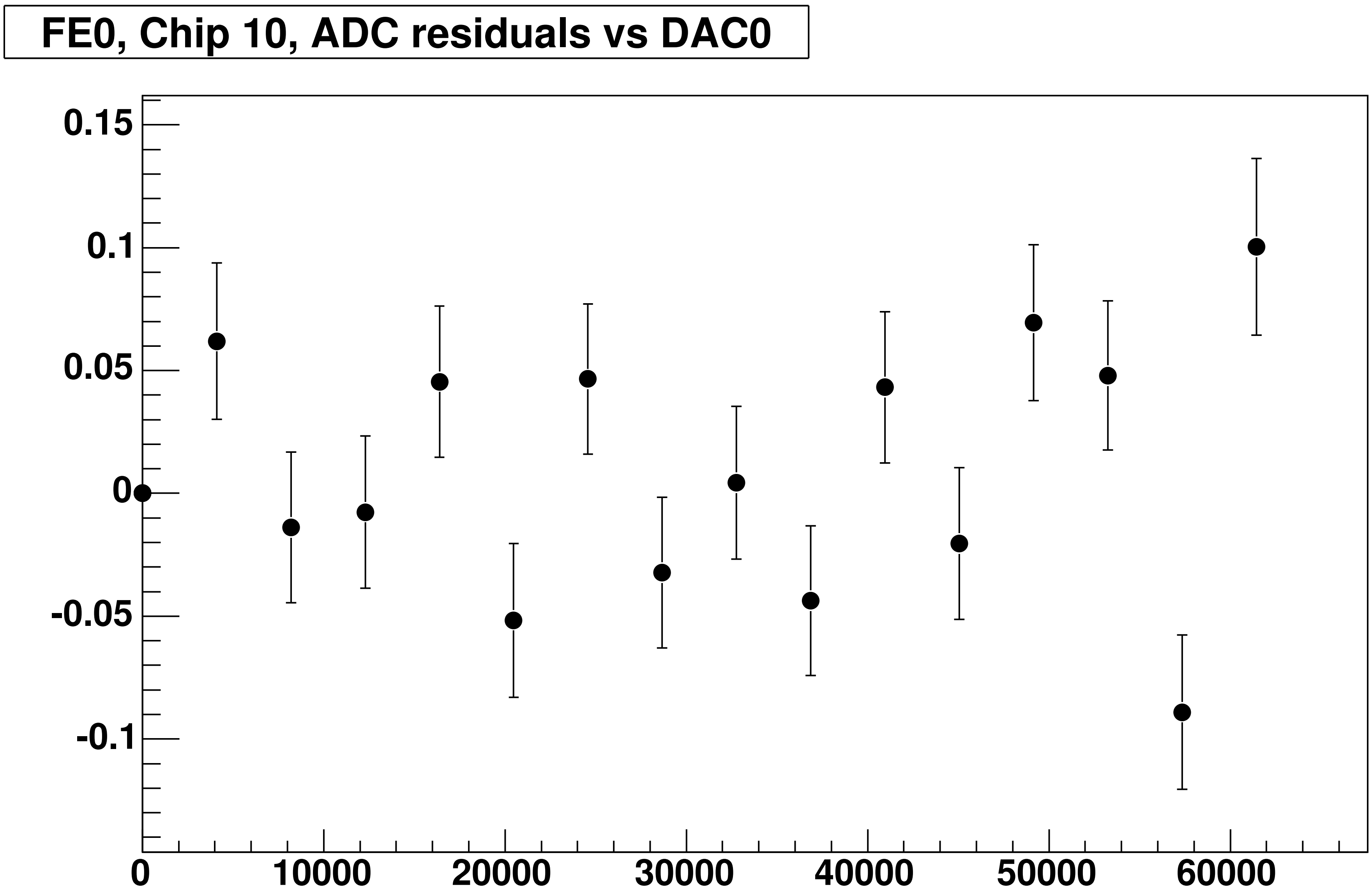


FE0, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

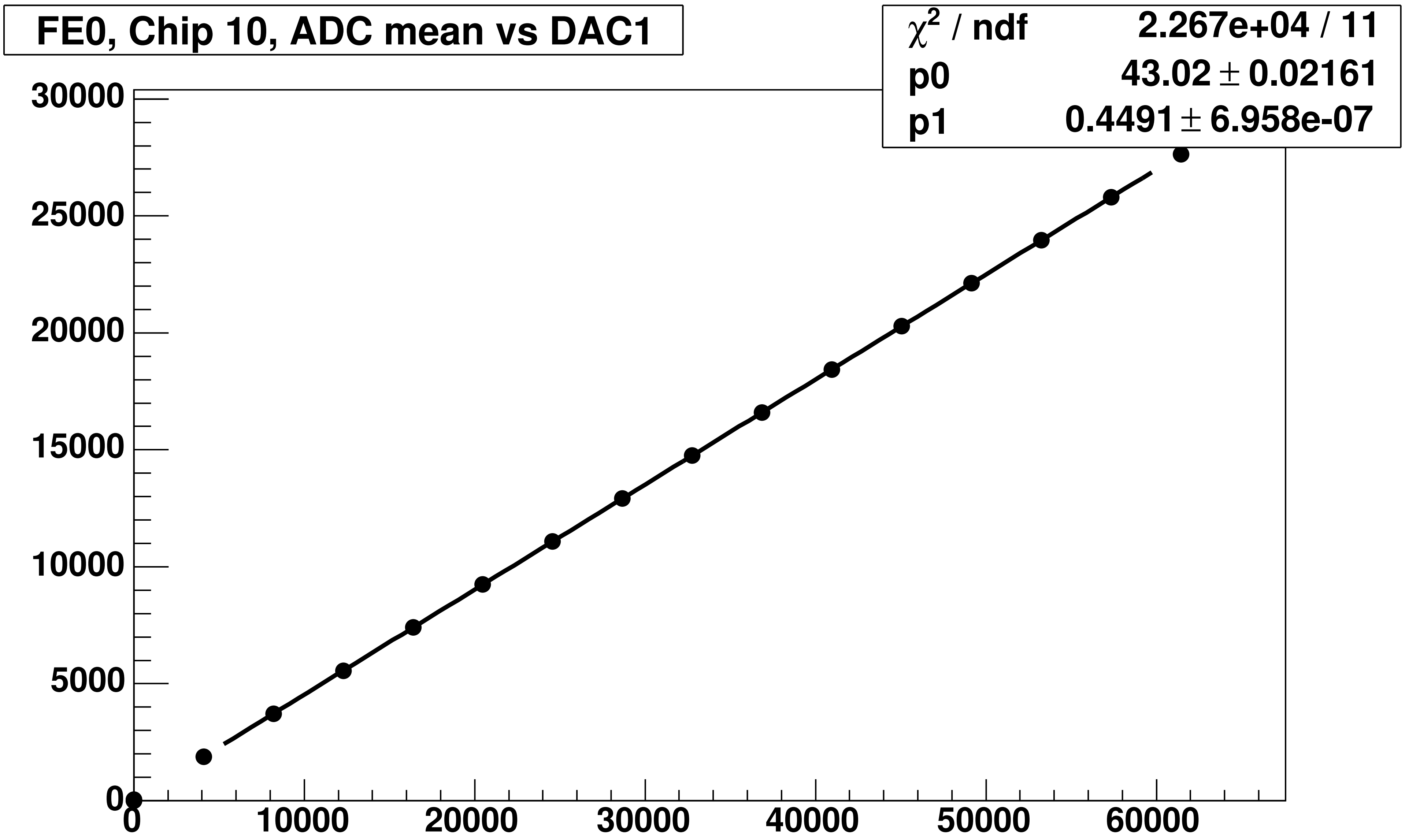


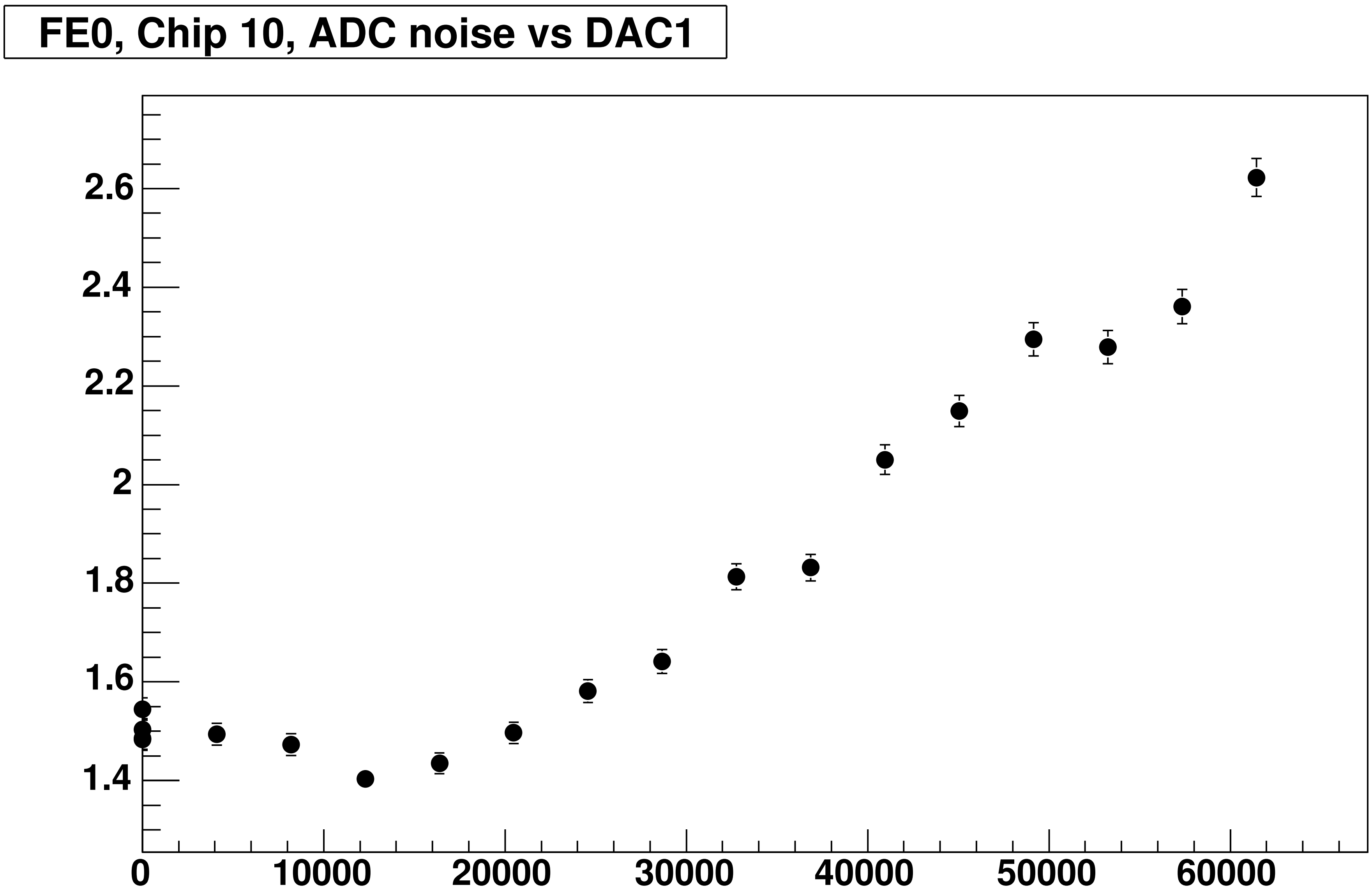
FE0, Chip 10, ADC mean vs DAC0
χ^2 / ndf 28.44 / 11
p0 43.66 ± 0.02024
p1 -1.623e-06 ± 5.604e-07
45
40
35
30
25
20
15
10
5
0
10000
20000
30000
40000
50000
60000

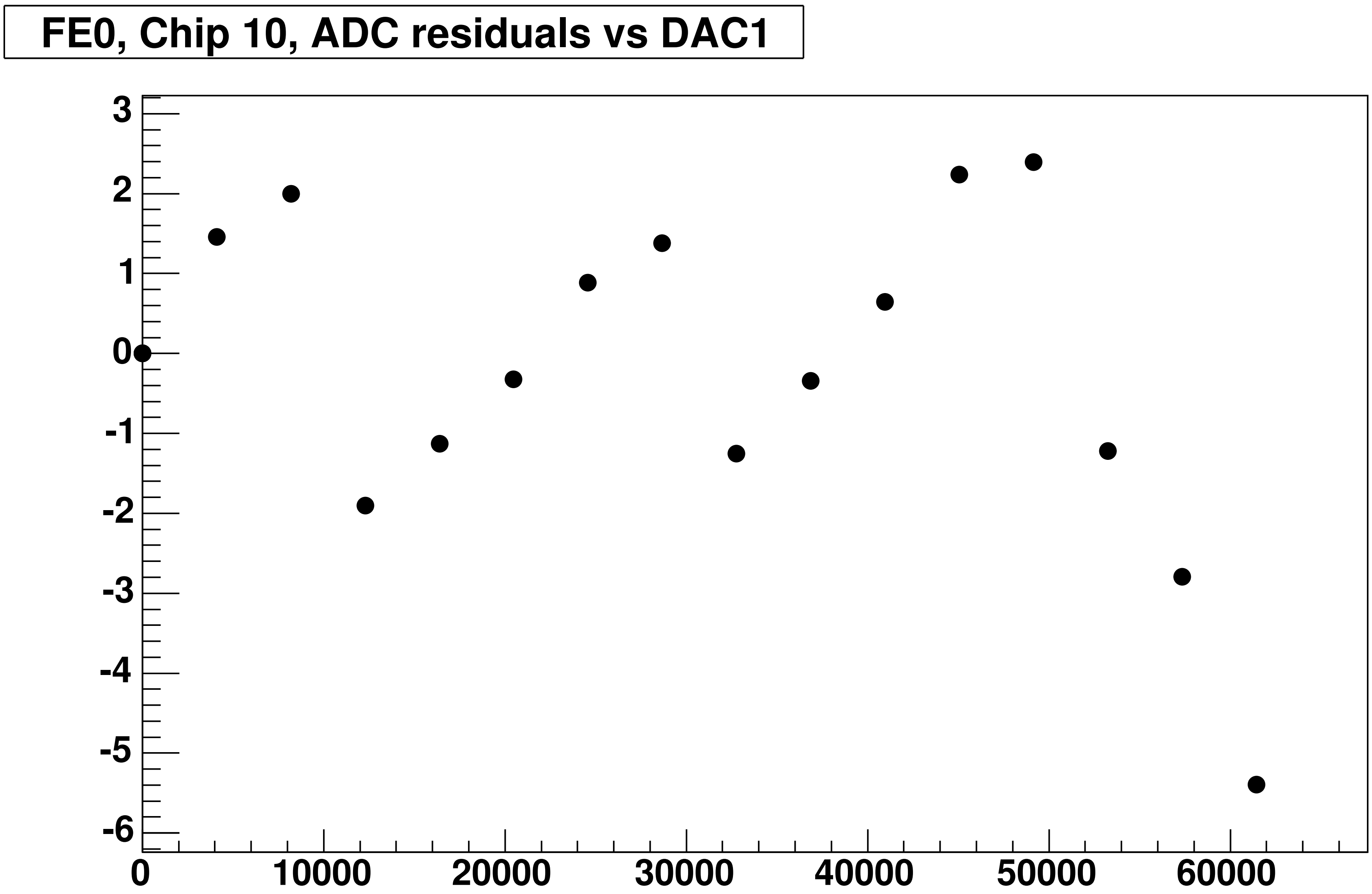

FE0, Chip 10, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

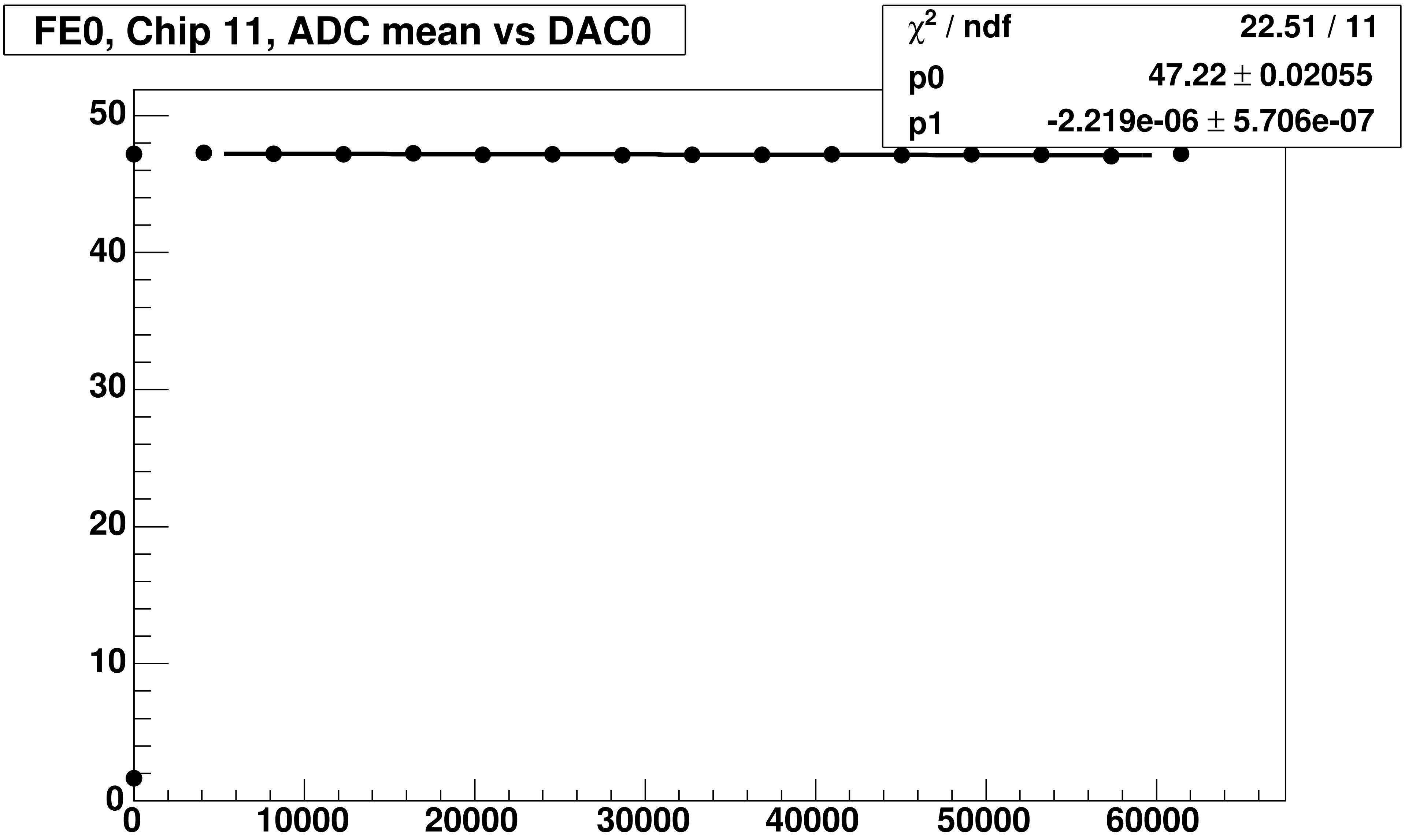


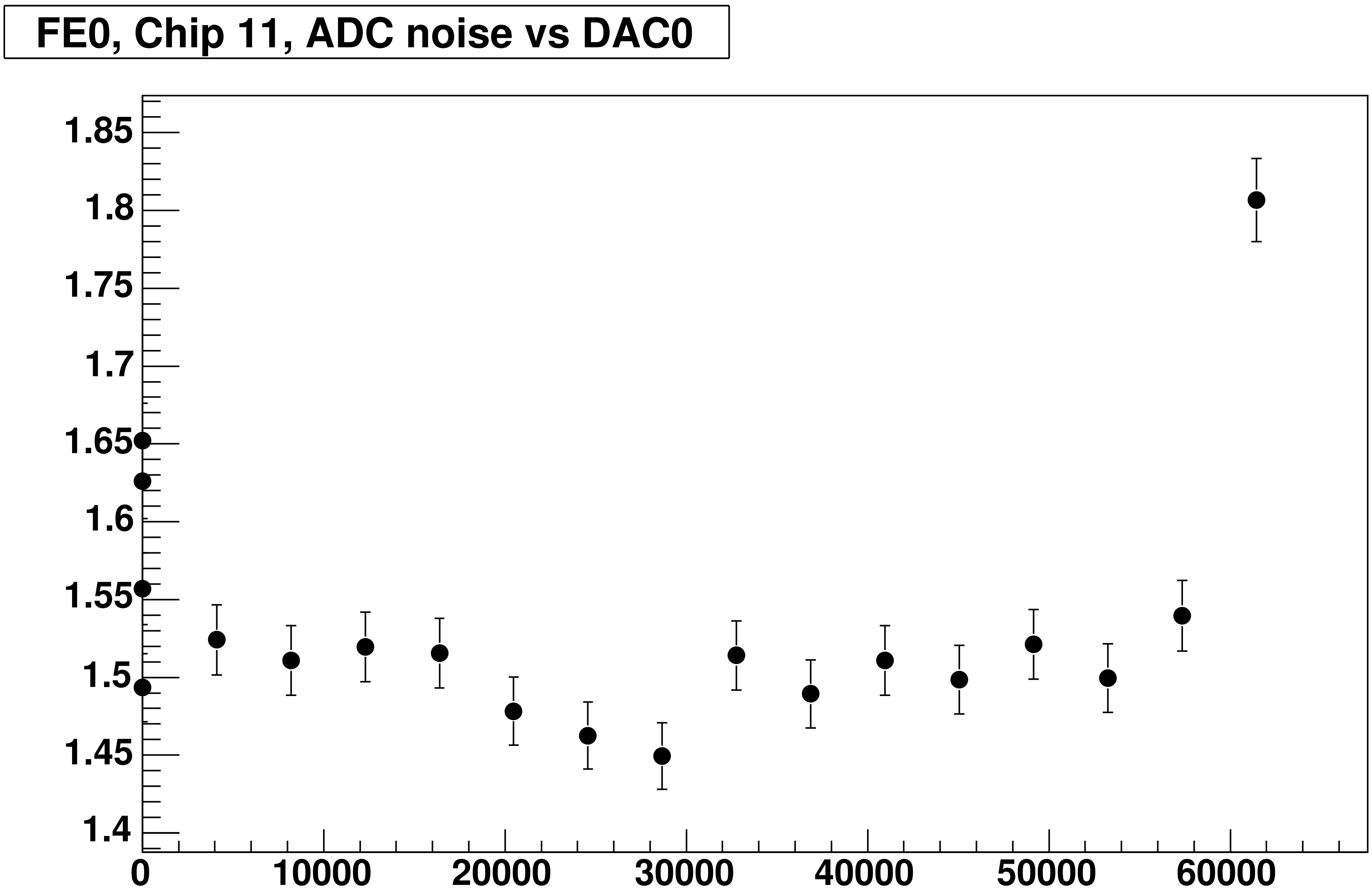
FE0, Chip 10, ADC residuals vs DAC0
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

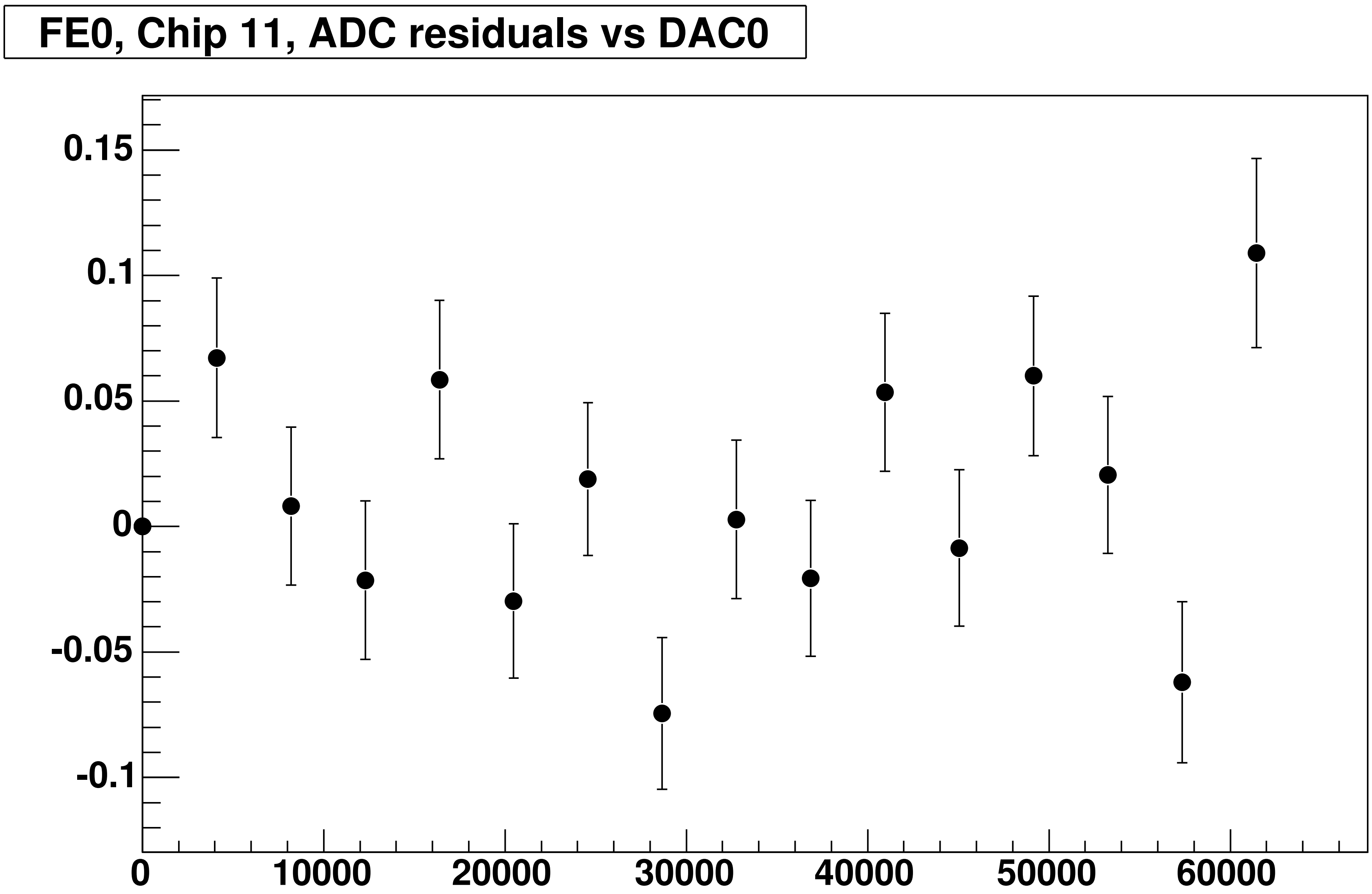

FE0, Chip 10, ADC mean vs DAC1
χ² / ndf 2.267e+04 / 11
p0 43.02 ± 0.02161
p1 0.4491 ± 6.958e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

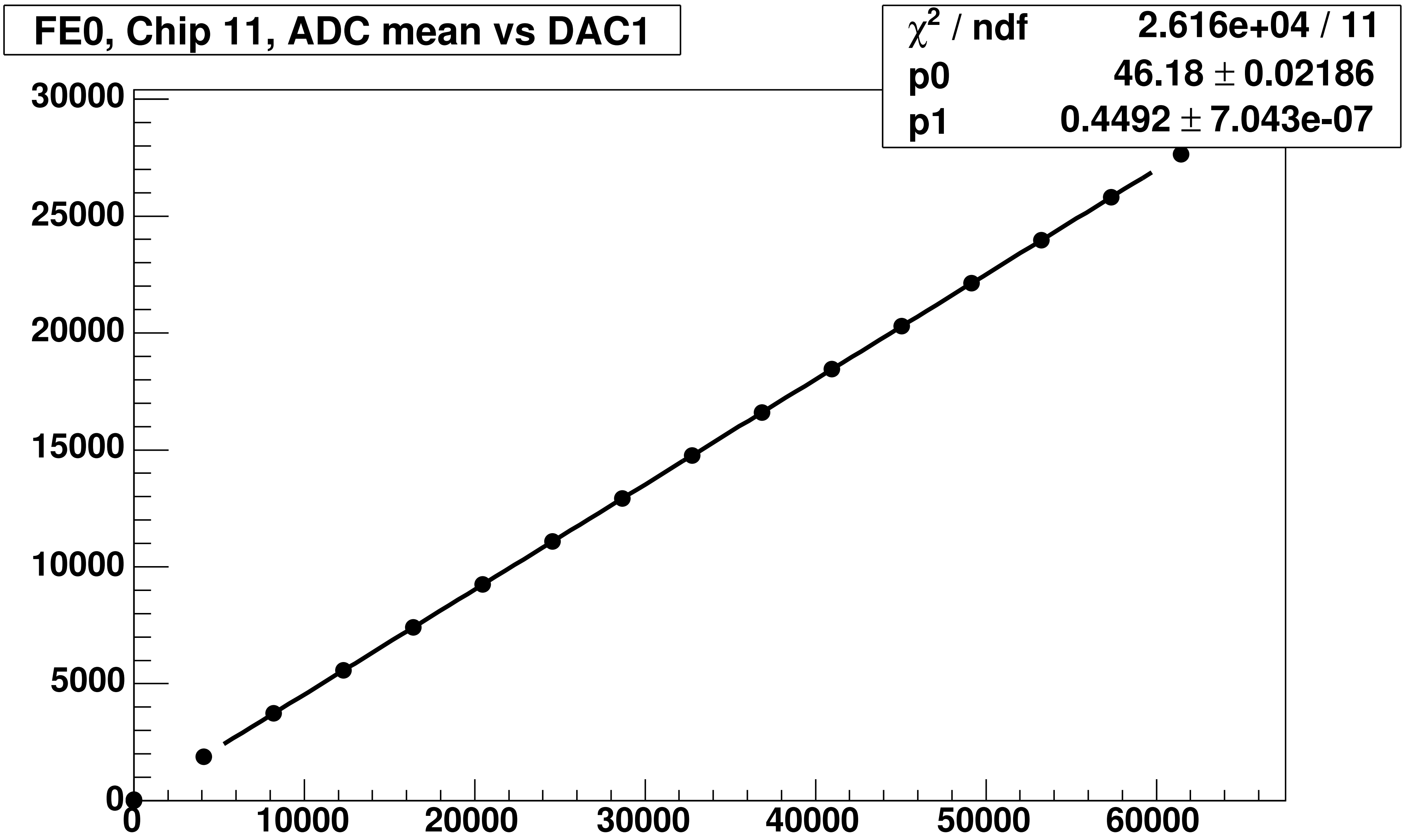

FE0, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

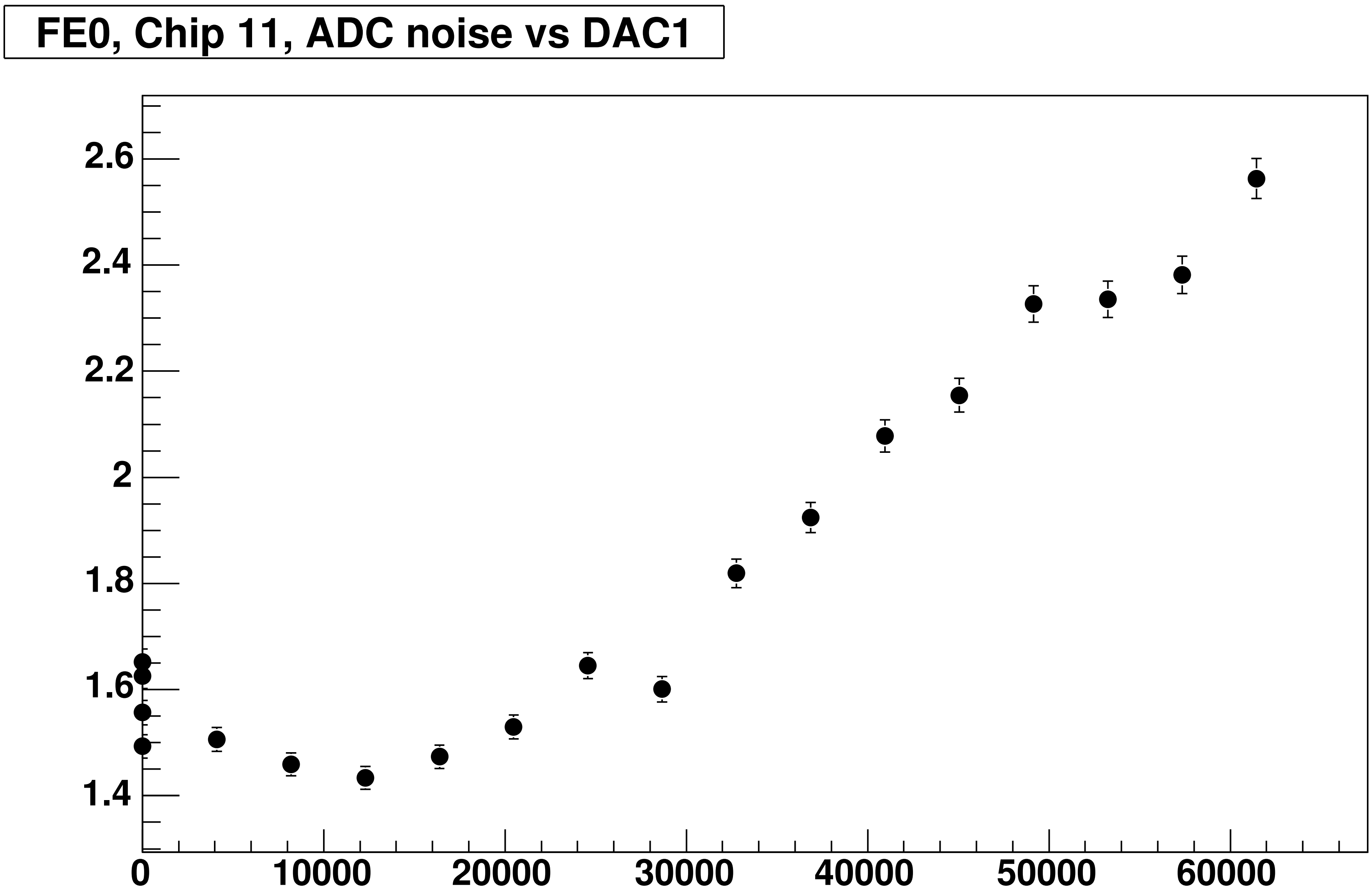

FE0, Chip 10, ADC residuals vs DAC1
3
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

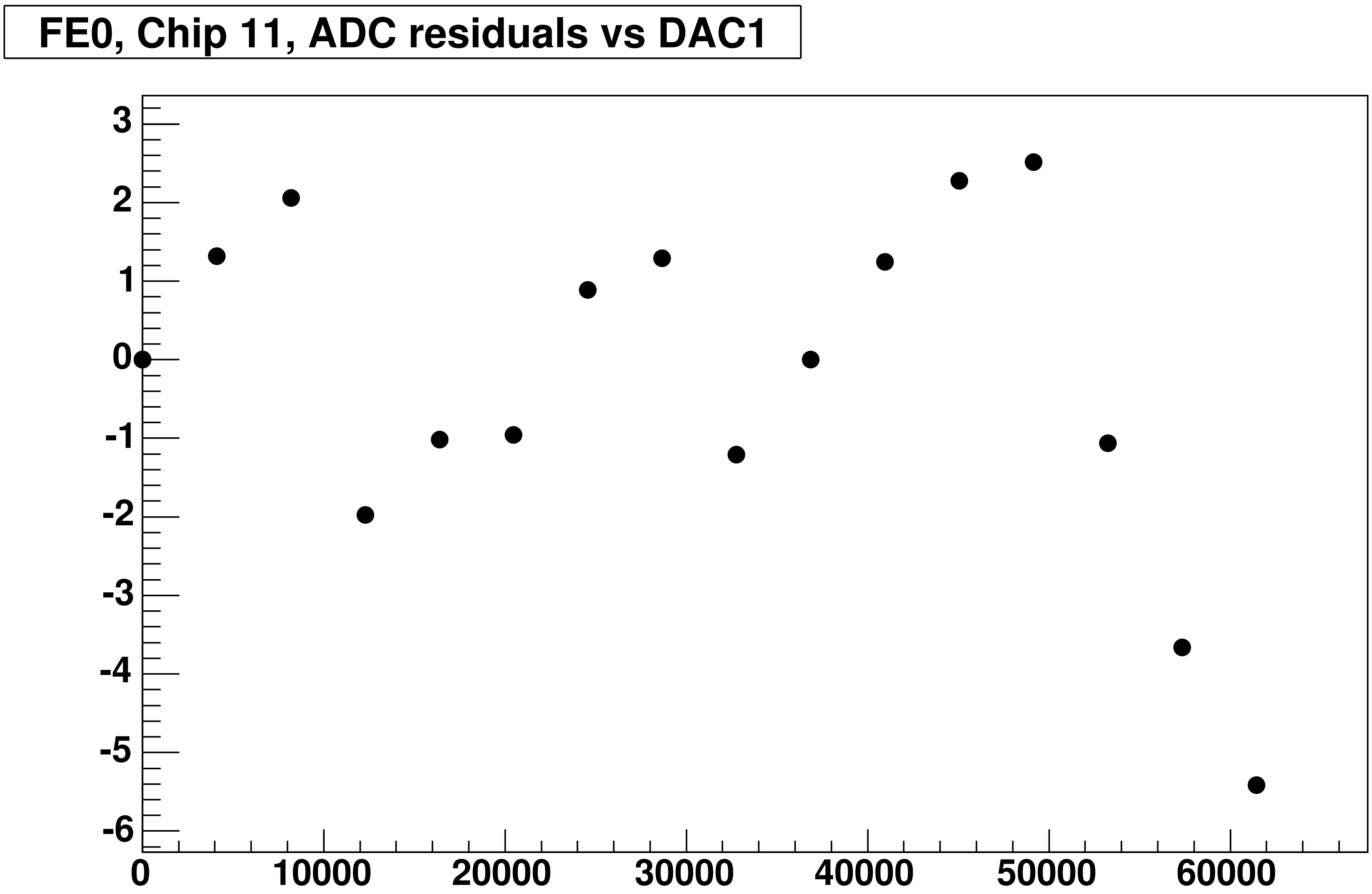

FE0, Chip 11, ADC mean vs DAC0
χ2 / ndf 22.51 / 11
p0 47.22 ± 0.02055
p1 -2.219e-06 ± 5.706e-07
0
10
20
30
40
50
0
10000
20000
30000
40000
50000
60000

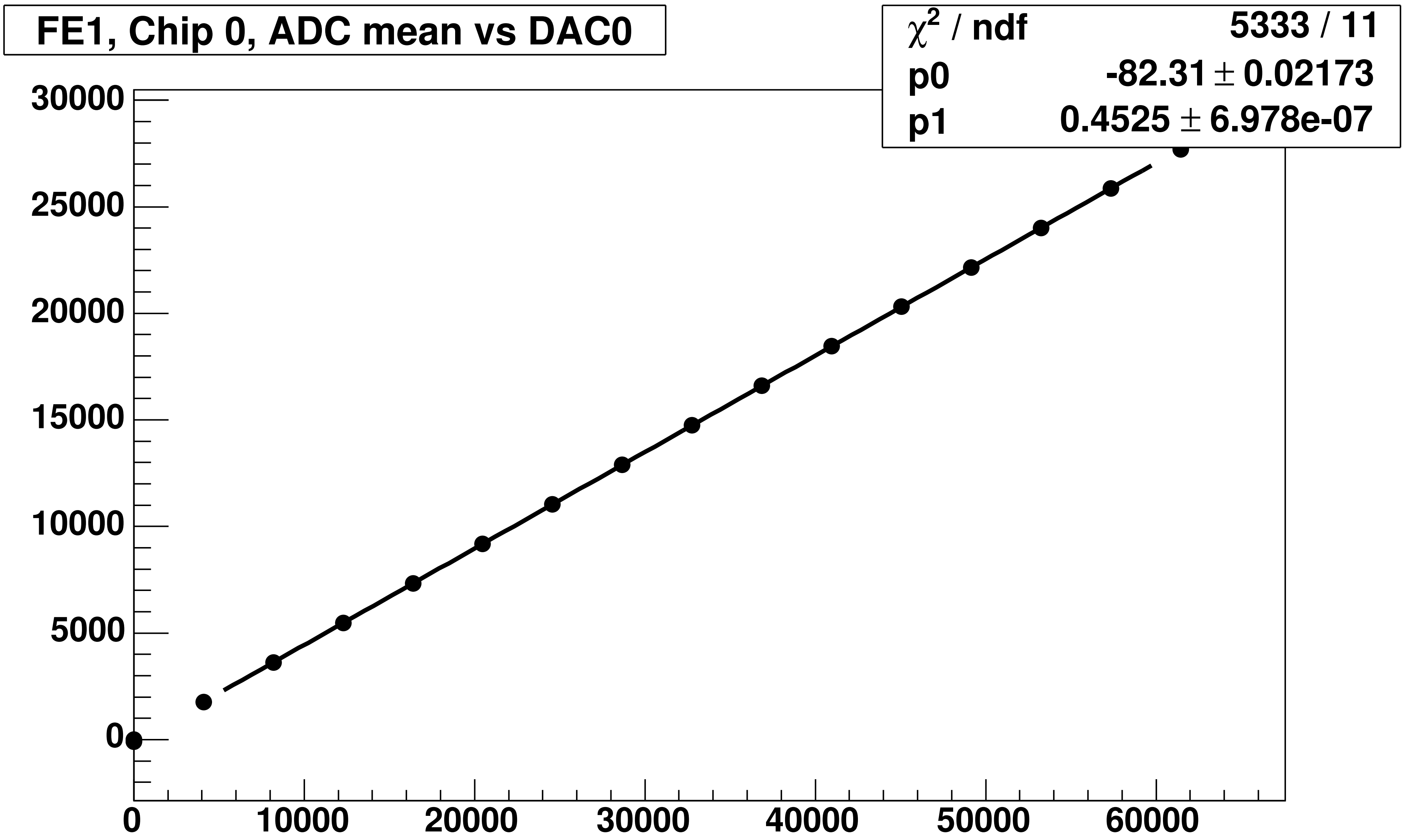

FE0, Chip 11, ADC noise vs DAC0
1.85
1.8
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


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

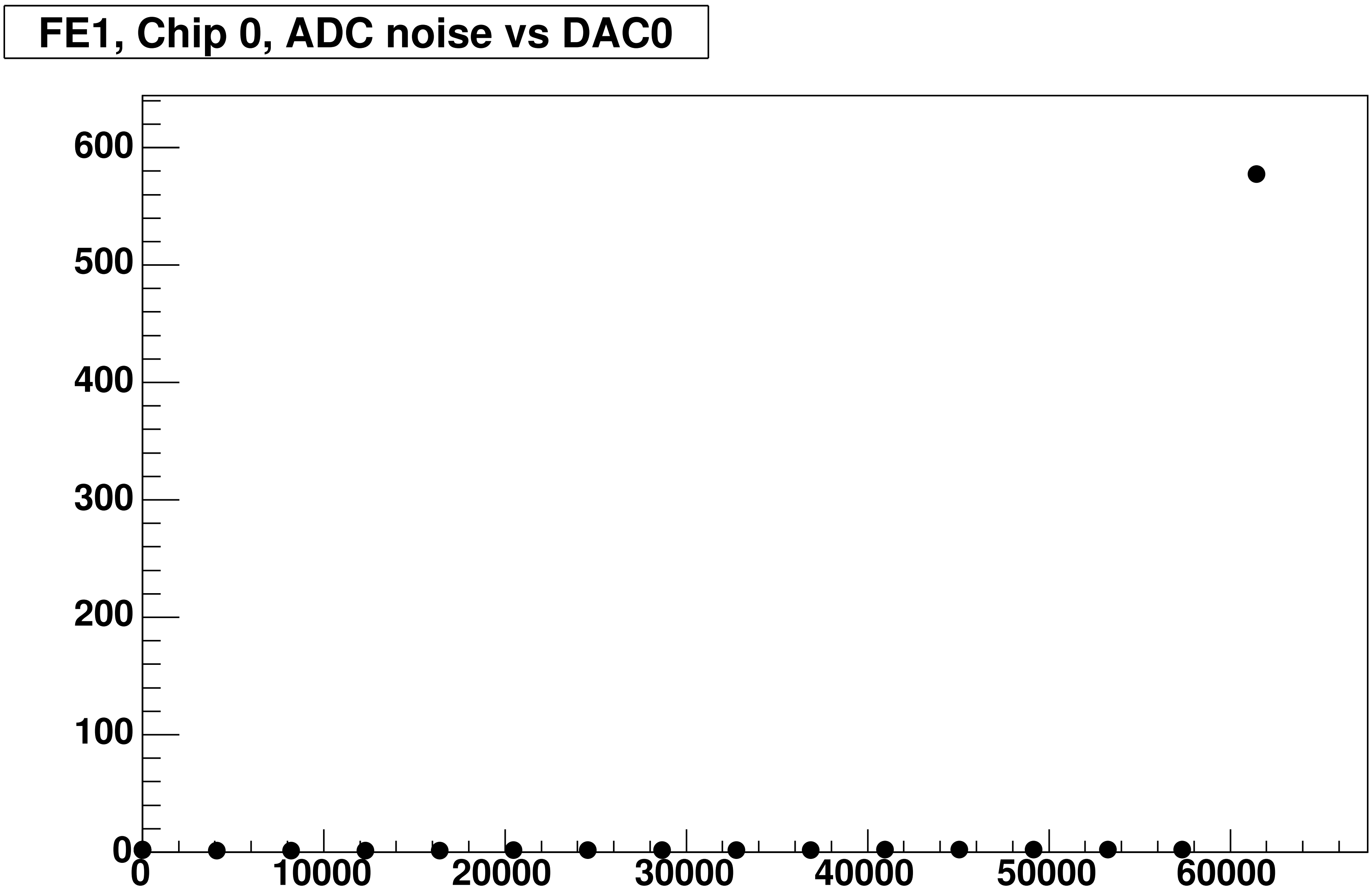

FE0, Chip 11, ADC mean vs DAC1
χ2 / ndf 2.616e+04 / 11
p0 46.18 ± 0.02186
p1 0.4492 ± 7.043e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

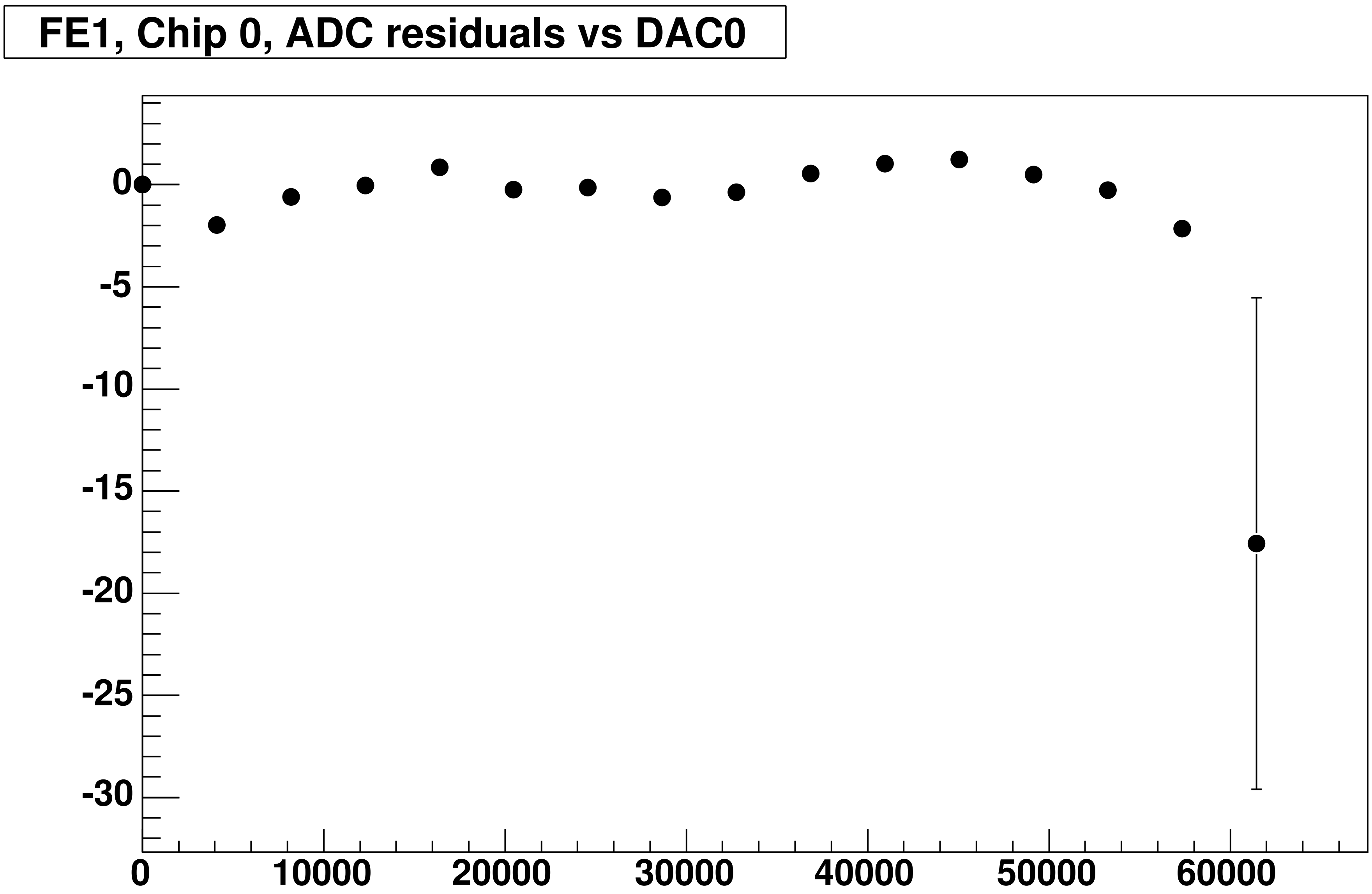

FE0, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

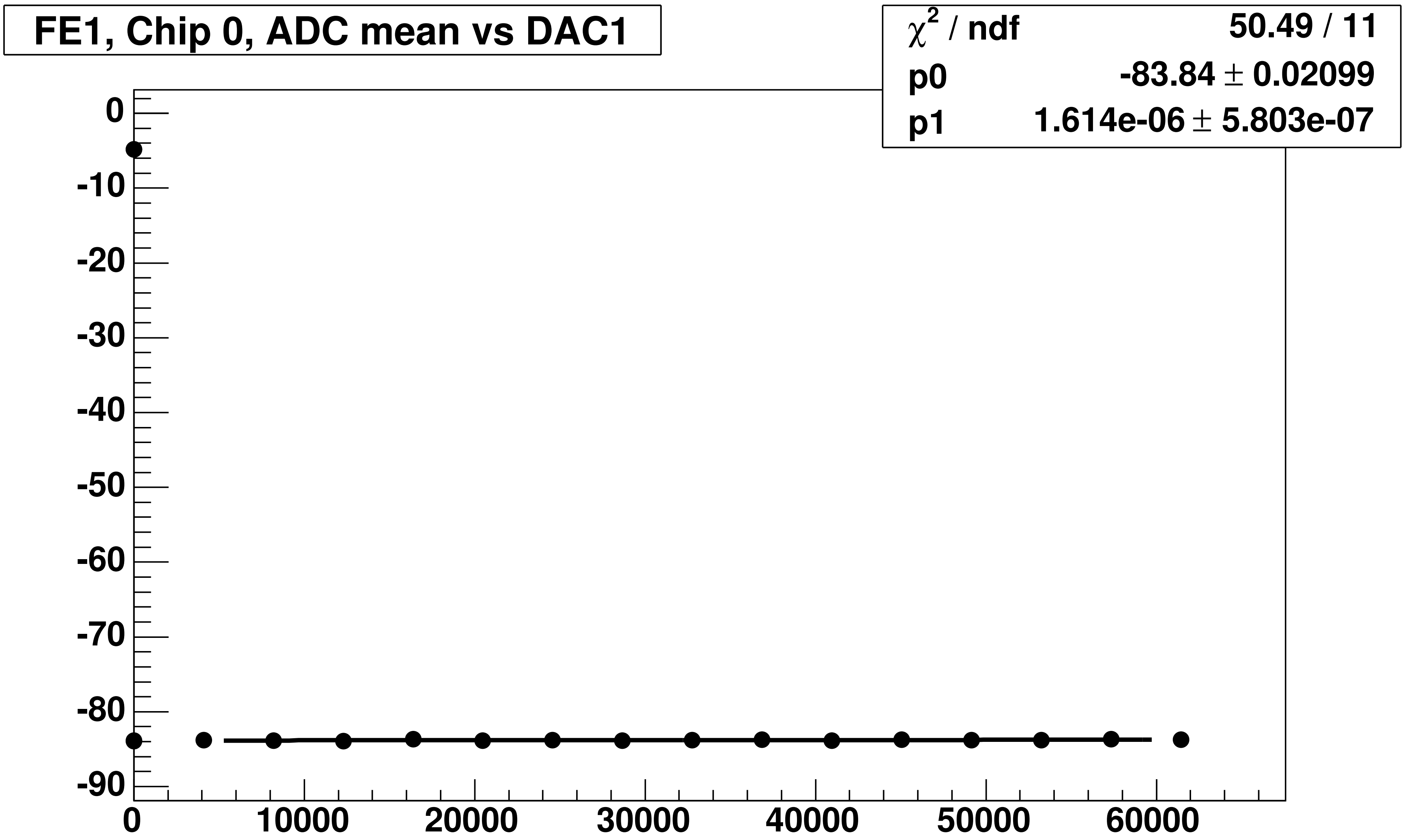

FE0, Chip 11, ADC residuals vs DAC1
3
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

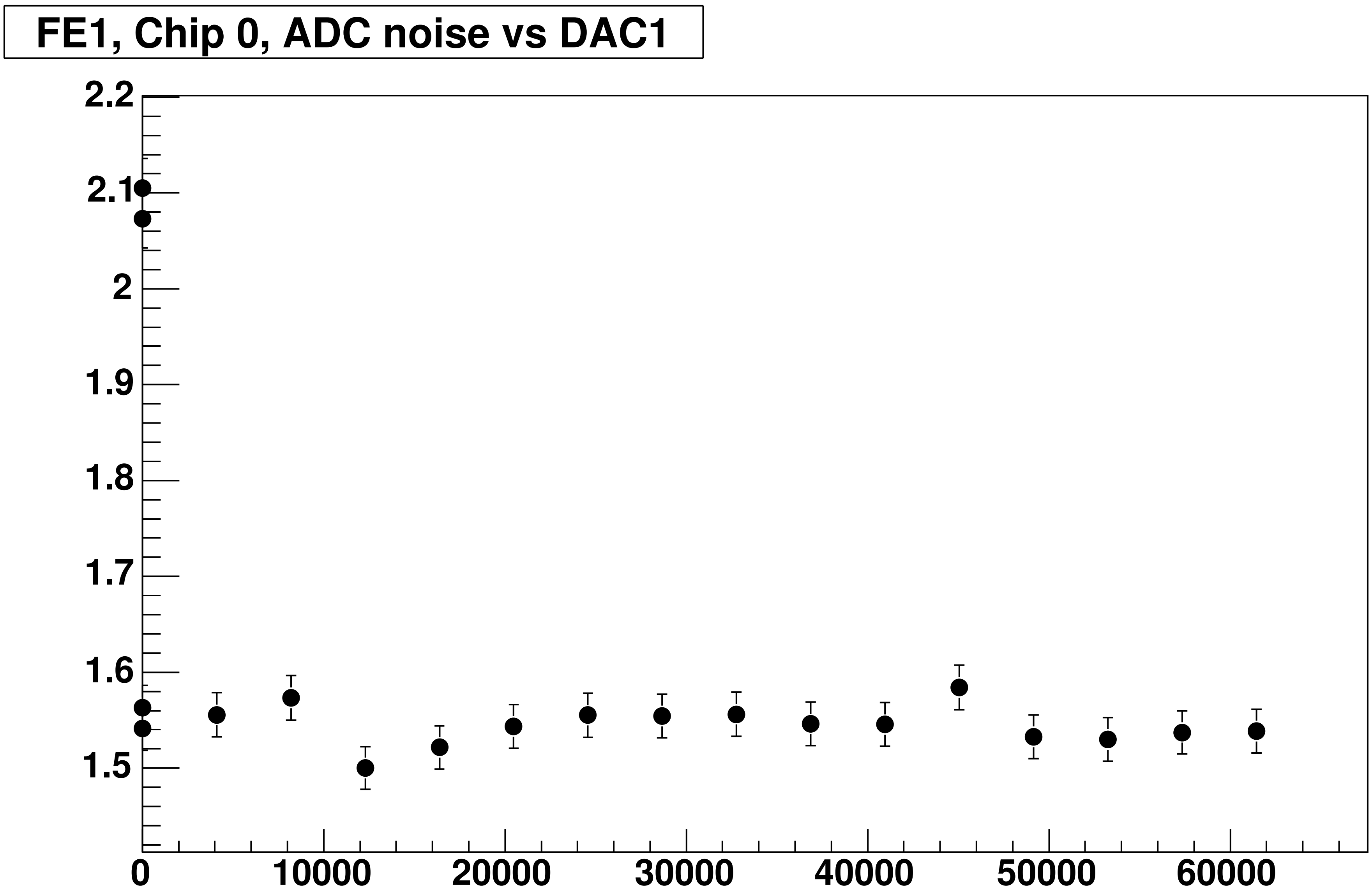


FE1, Chip 0, ADC mean vs DAC0
χ^2 / ndf 5333 / 11
p0 -82.31 ± 0.02173
p1 0.4525 ± 6.978e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

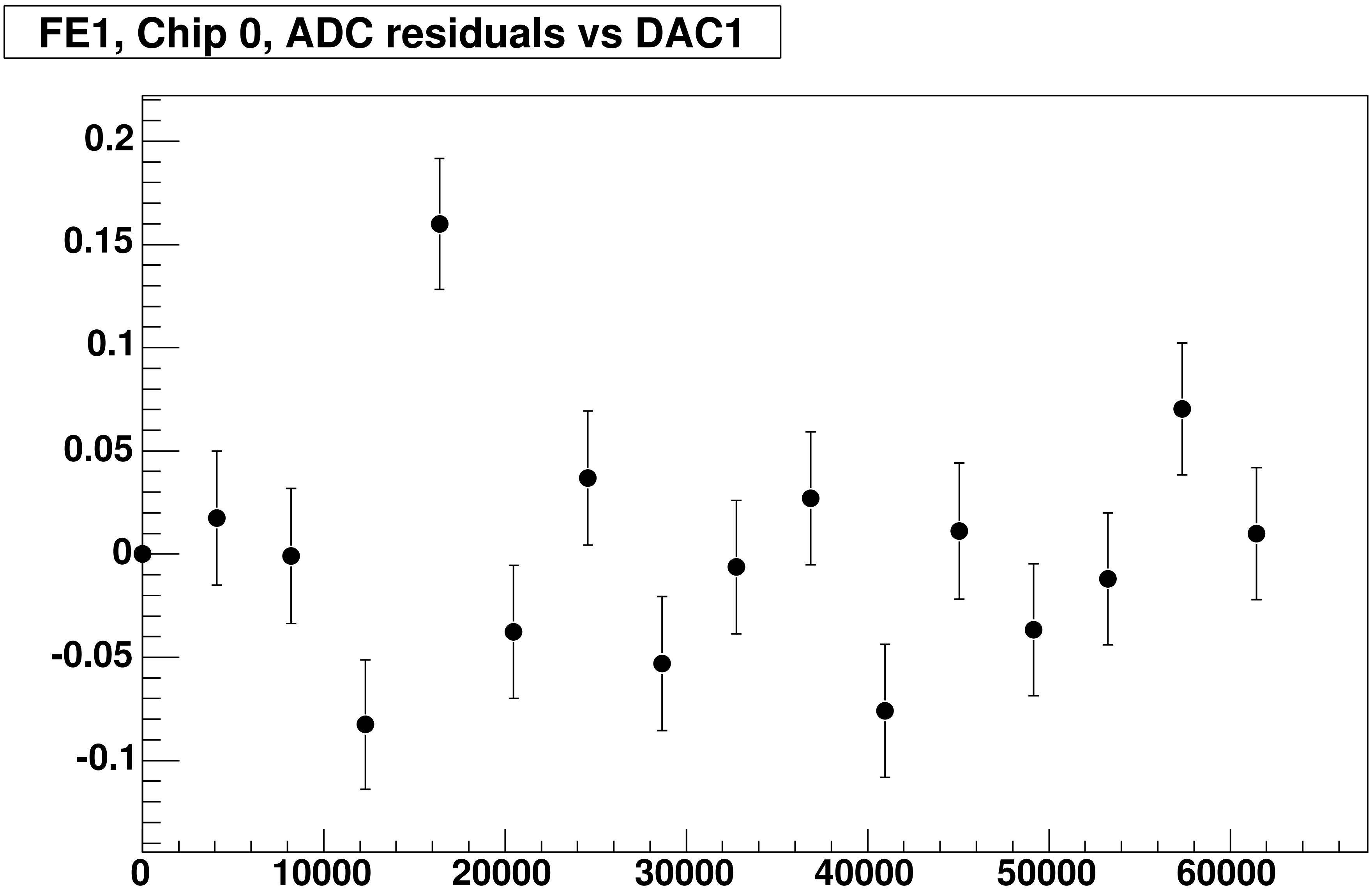

FE1, Chip 0, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000


FE1, Chip 0, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

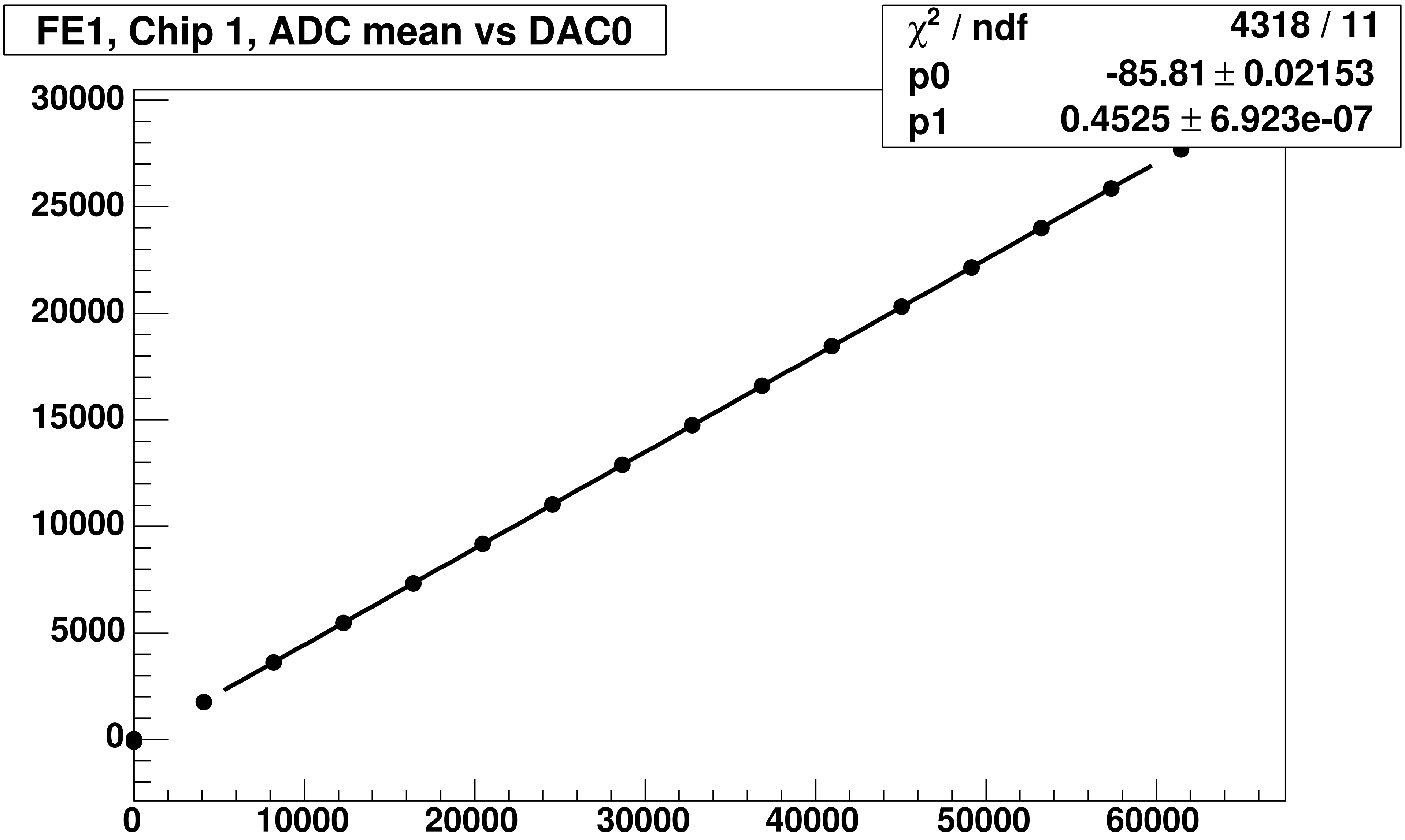

FE1, Chip 0, ADC mean vs DAC1
χ^2 / ndf 50.49 / 11
p0 -83.84 ± 0.02099
p1 1.614e-06 ± 5.803e-07
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
0
10000
20000
30000
40000
50000
60000

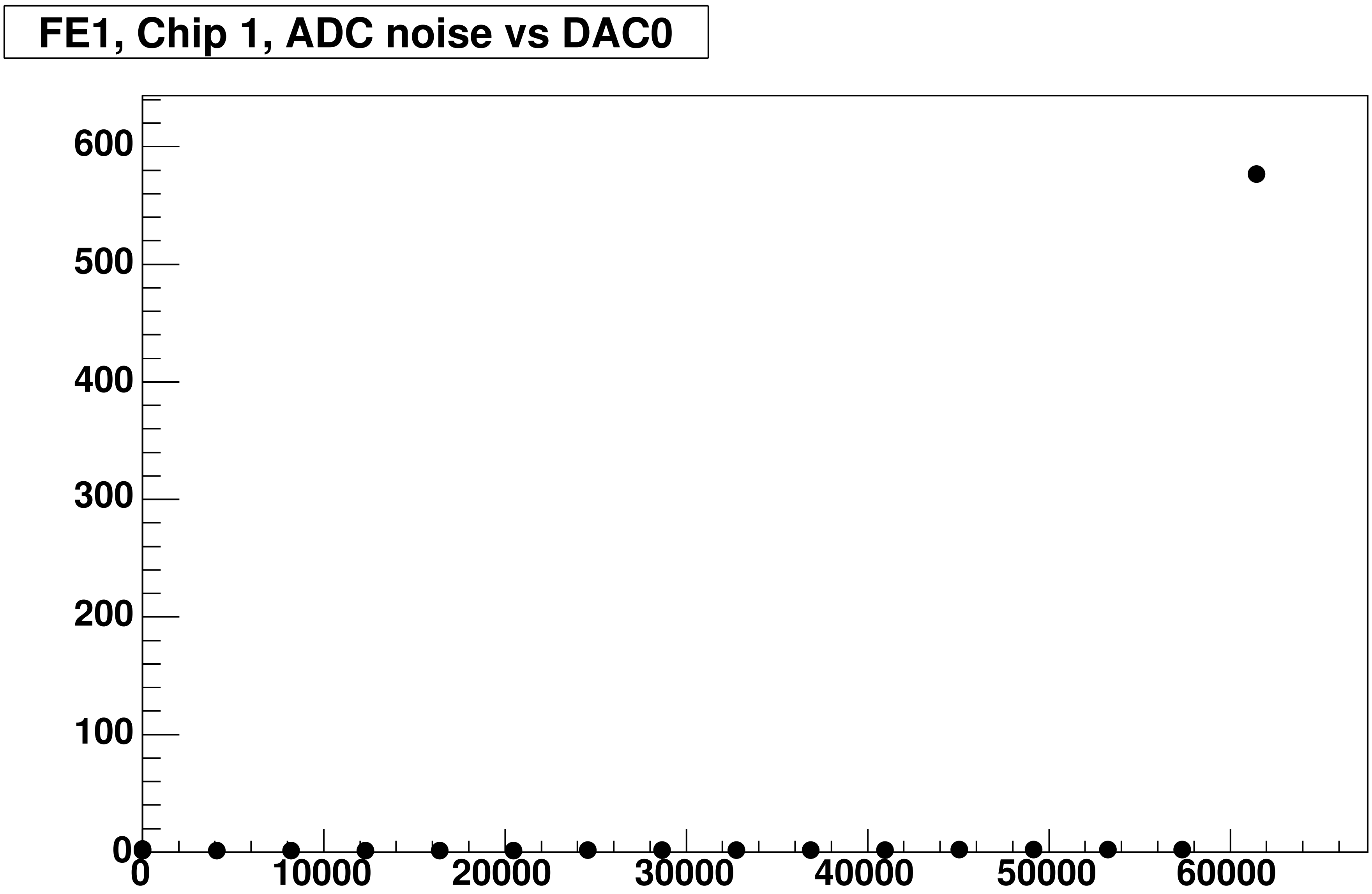


FE1, Chip 0, ADC noise vs DAC1
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
0
10000
20000
30000
40000
50000
60000

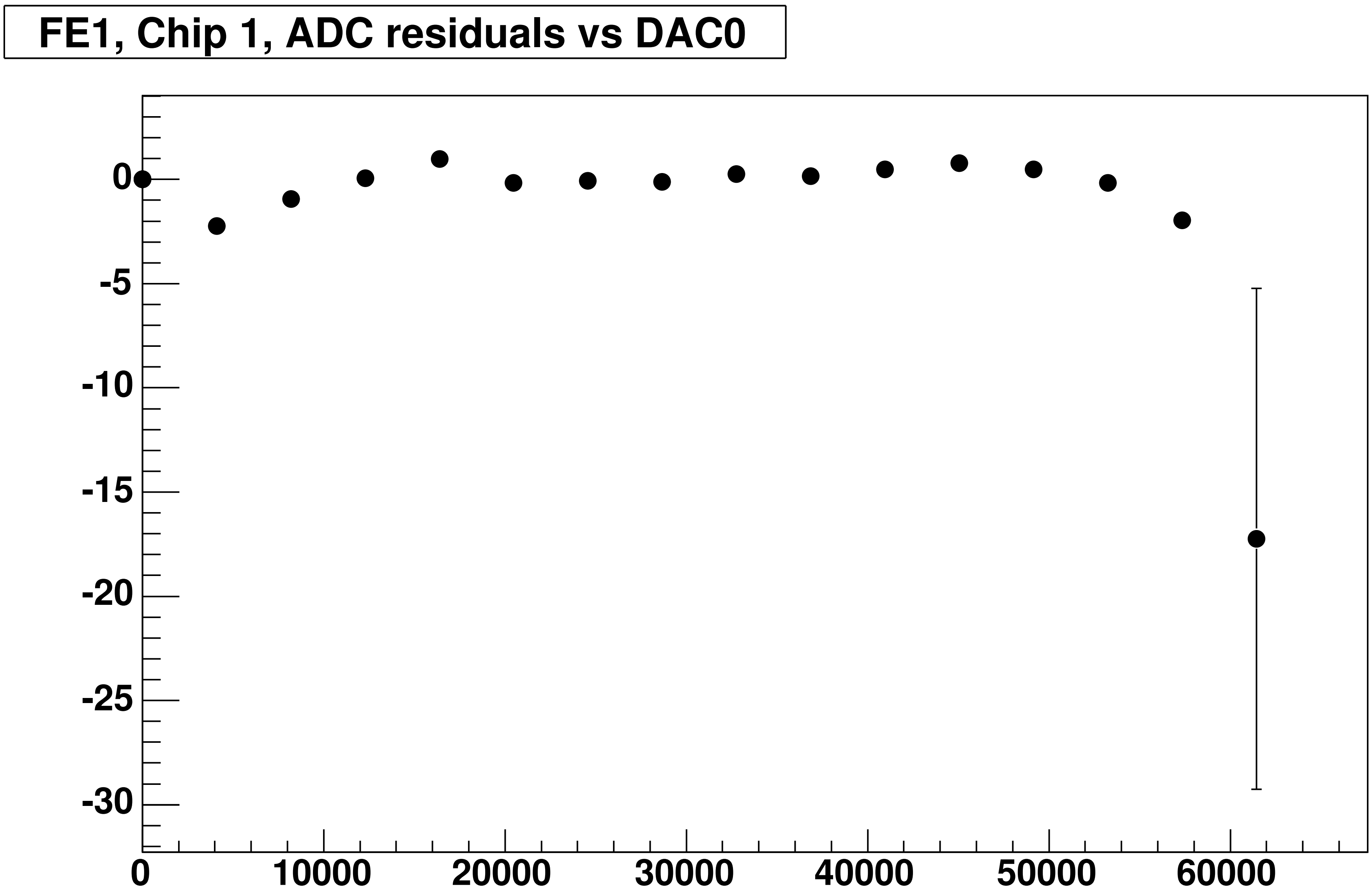


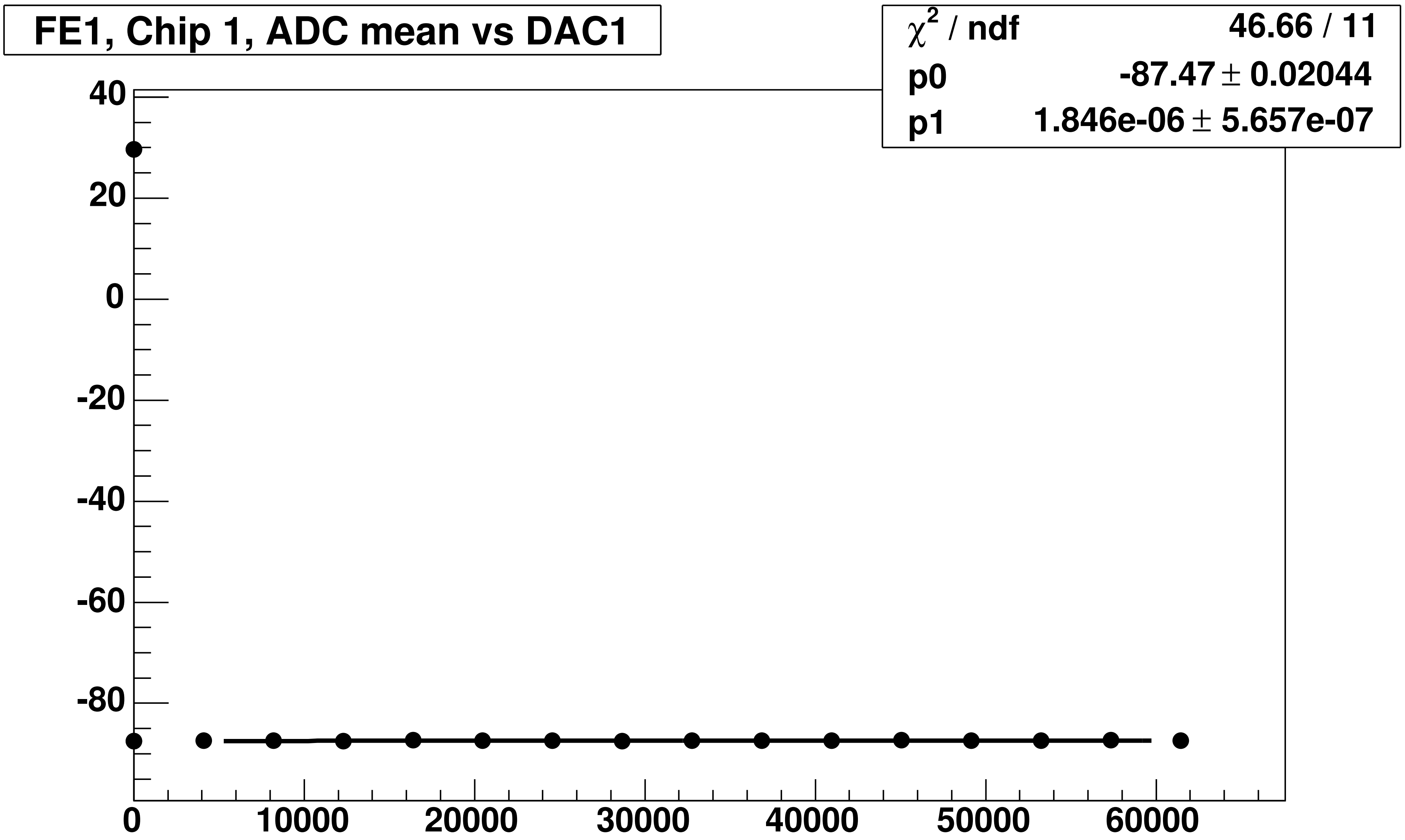
FE1, Chip 0, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000


FE1, Chip 1, ADC mean vs DAC0
χ2 / ndf 4318 / 11
p0 -85.81 ± 0.02153
p1 0.4525 ± 6.923e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

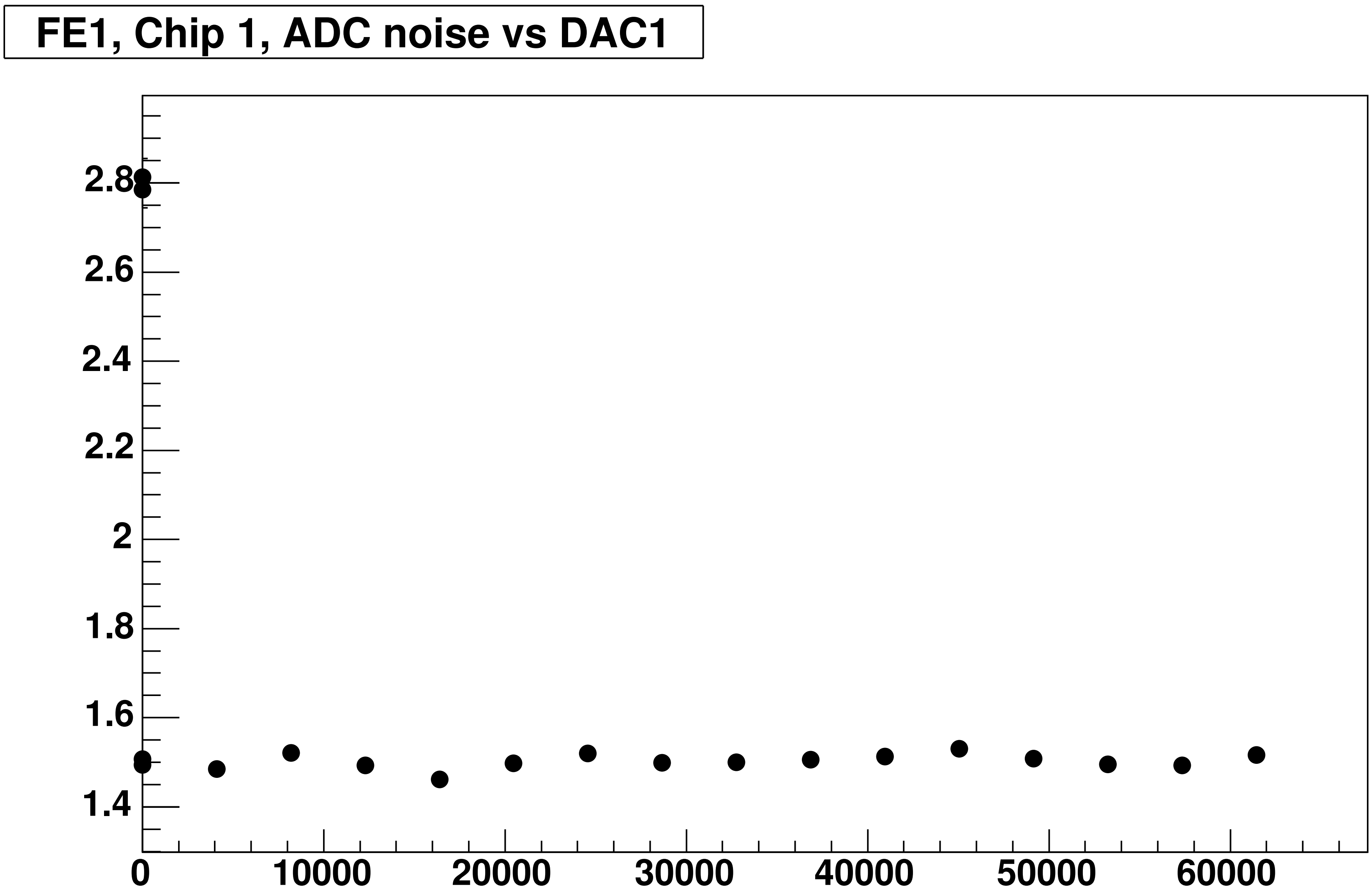


FE1, Chip 1, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

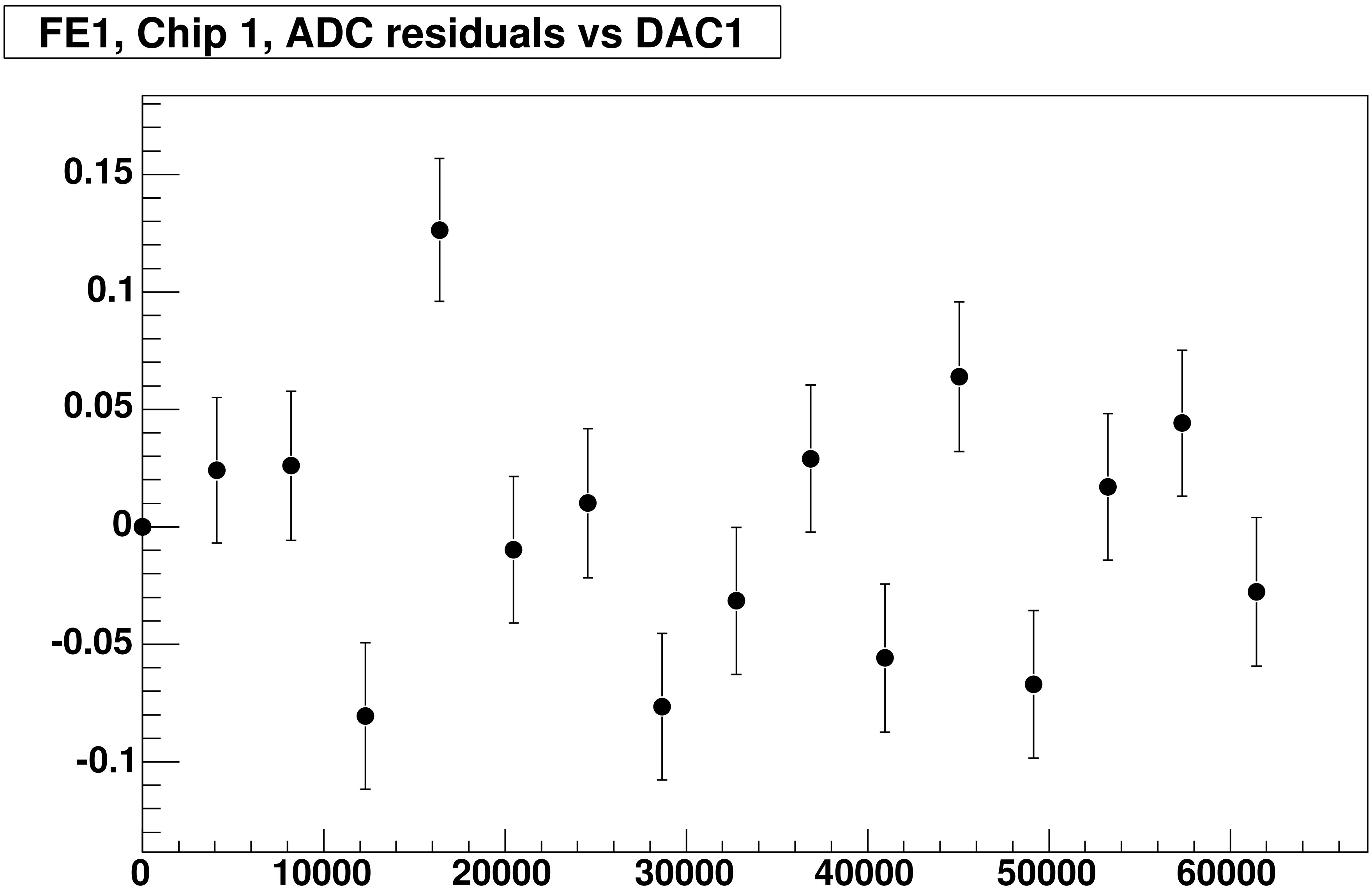

FE1, Chip 1, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

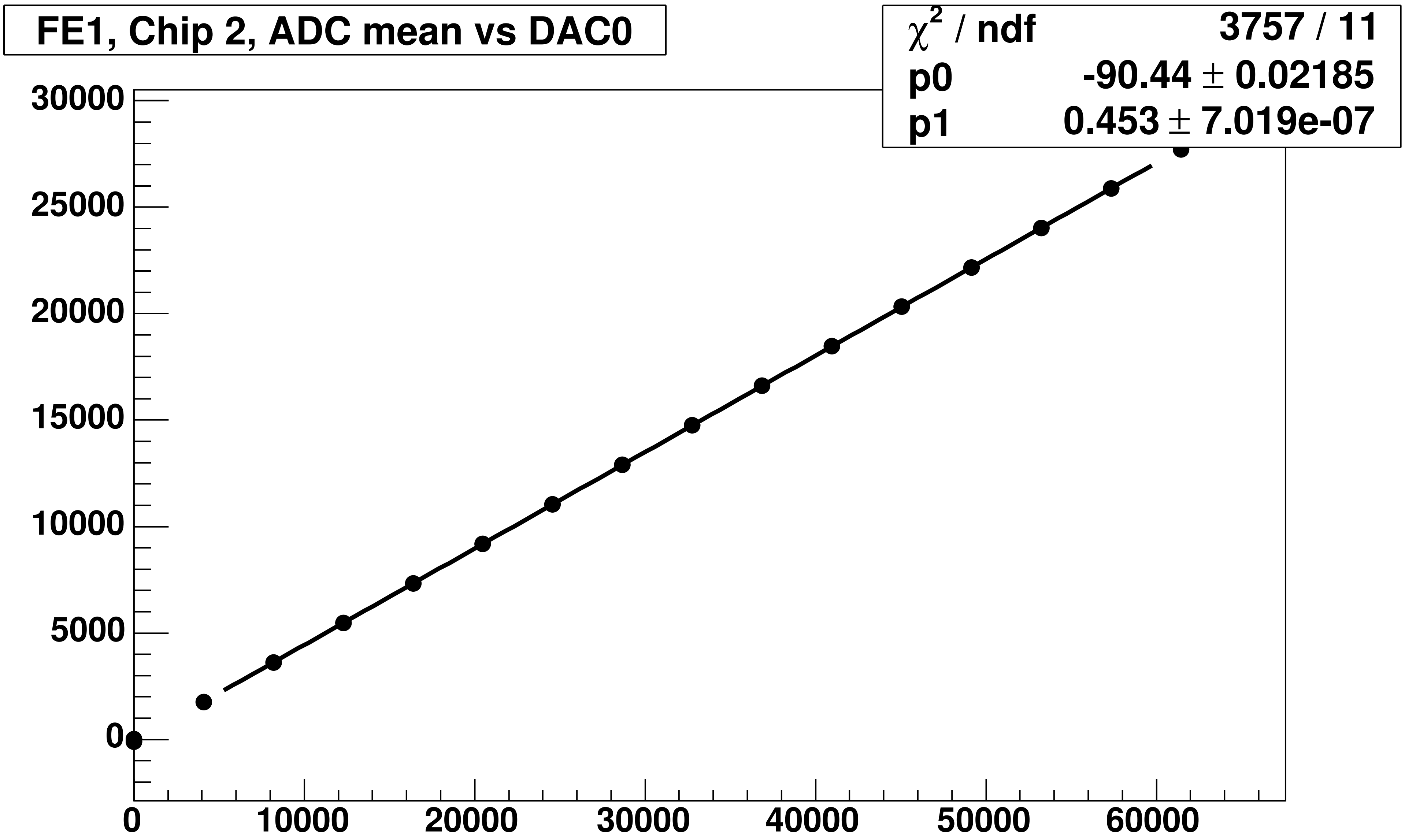


FE1, Chip 1, ADC mean vs DAC1
χ^2 / ndf 46.66 / 11
p0 -87.47 ± 0.02044
p1 1.846e-06 ± 5.657e-07
40
20
0
-20
-40
-60
-80
0
10000
20000
30000
40000
50000
60000

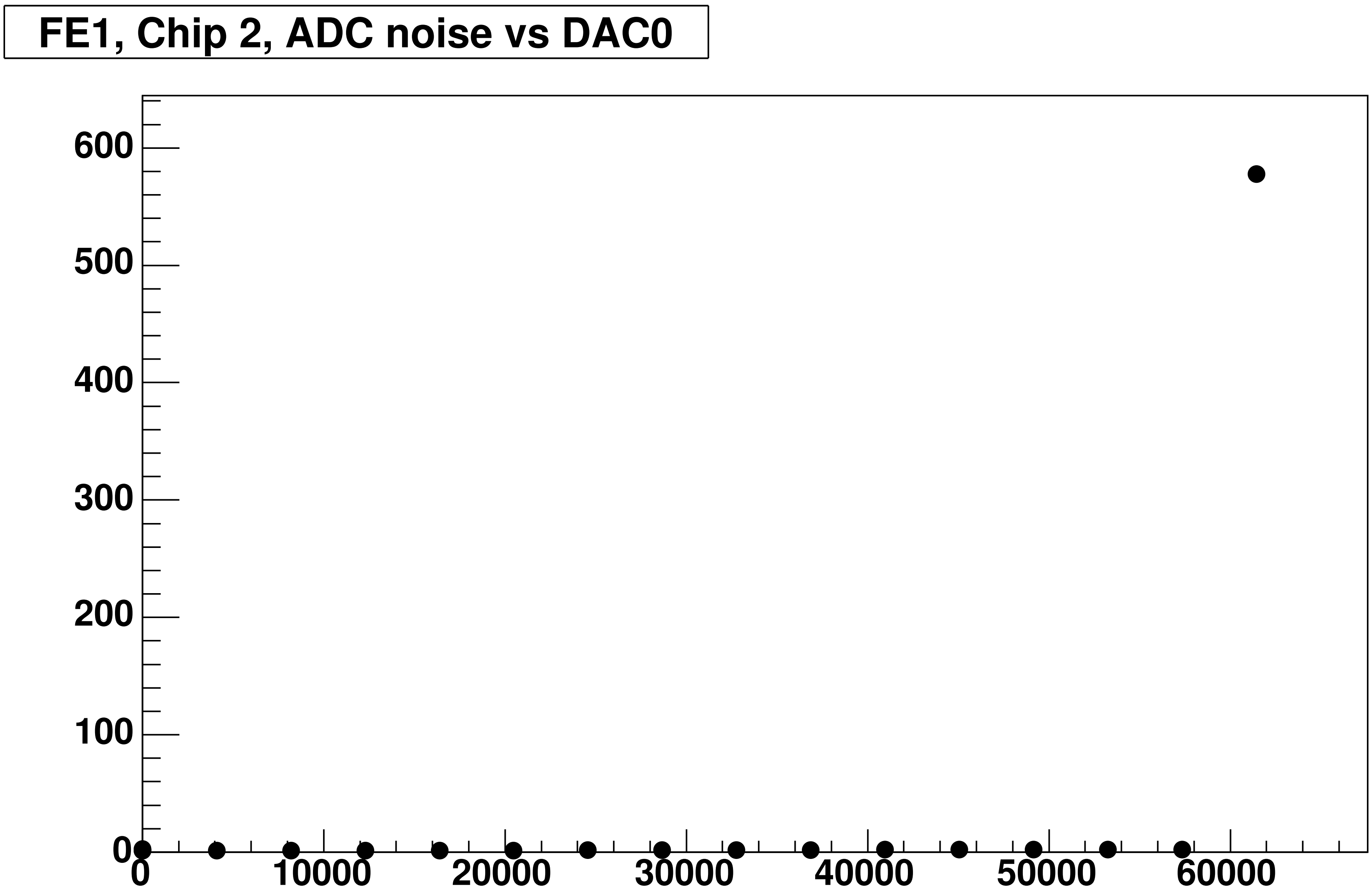


FE1, Chip 1, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

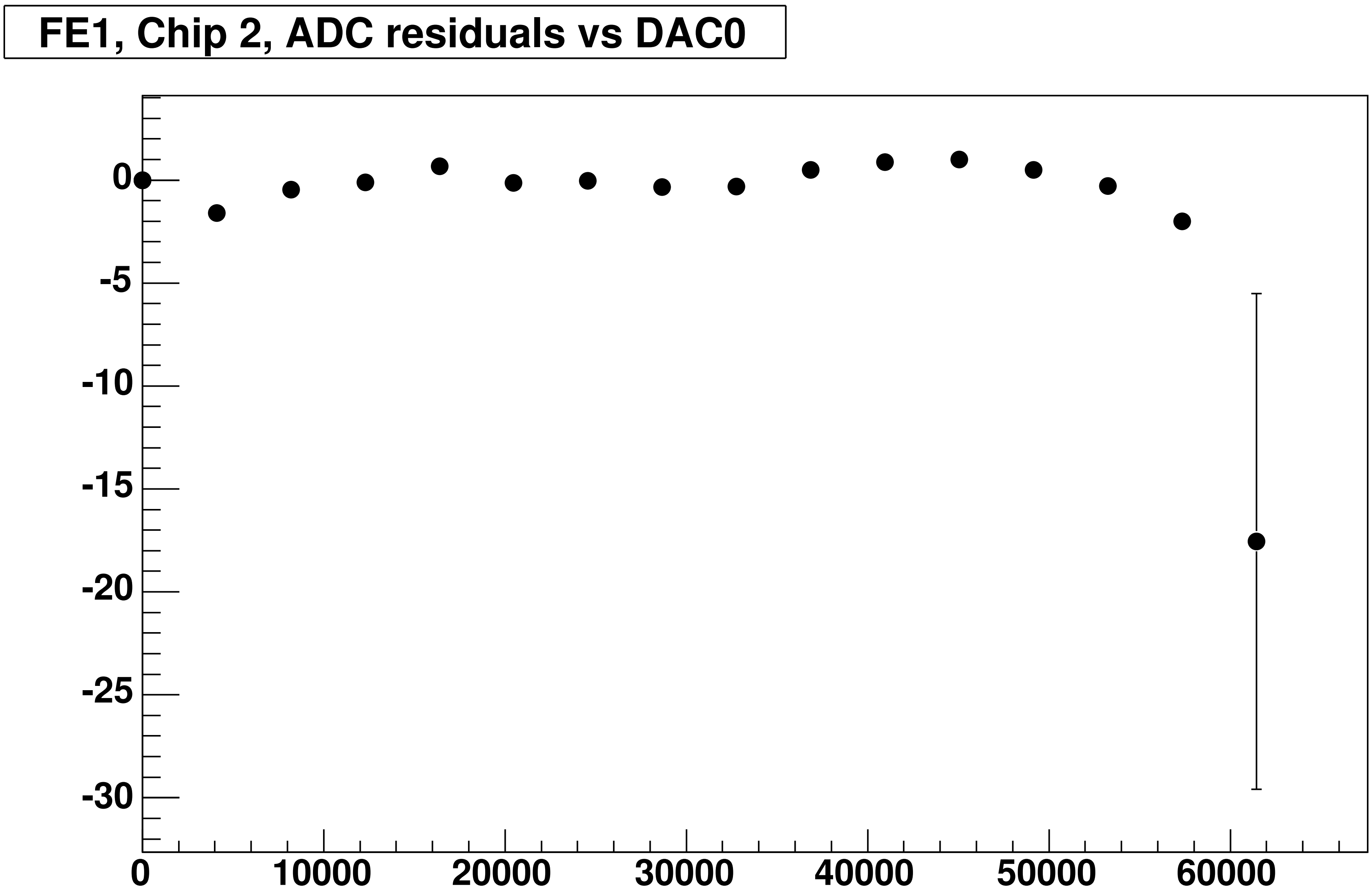

FE1, Chip 1, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000



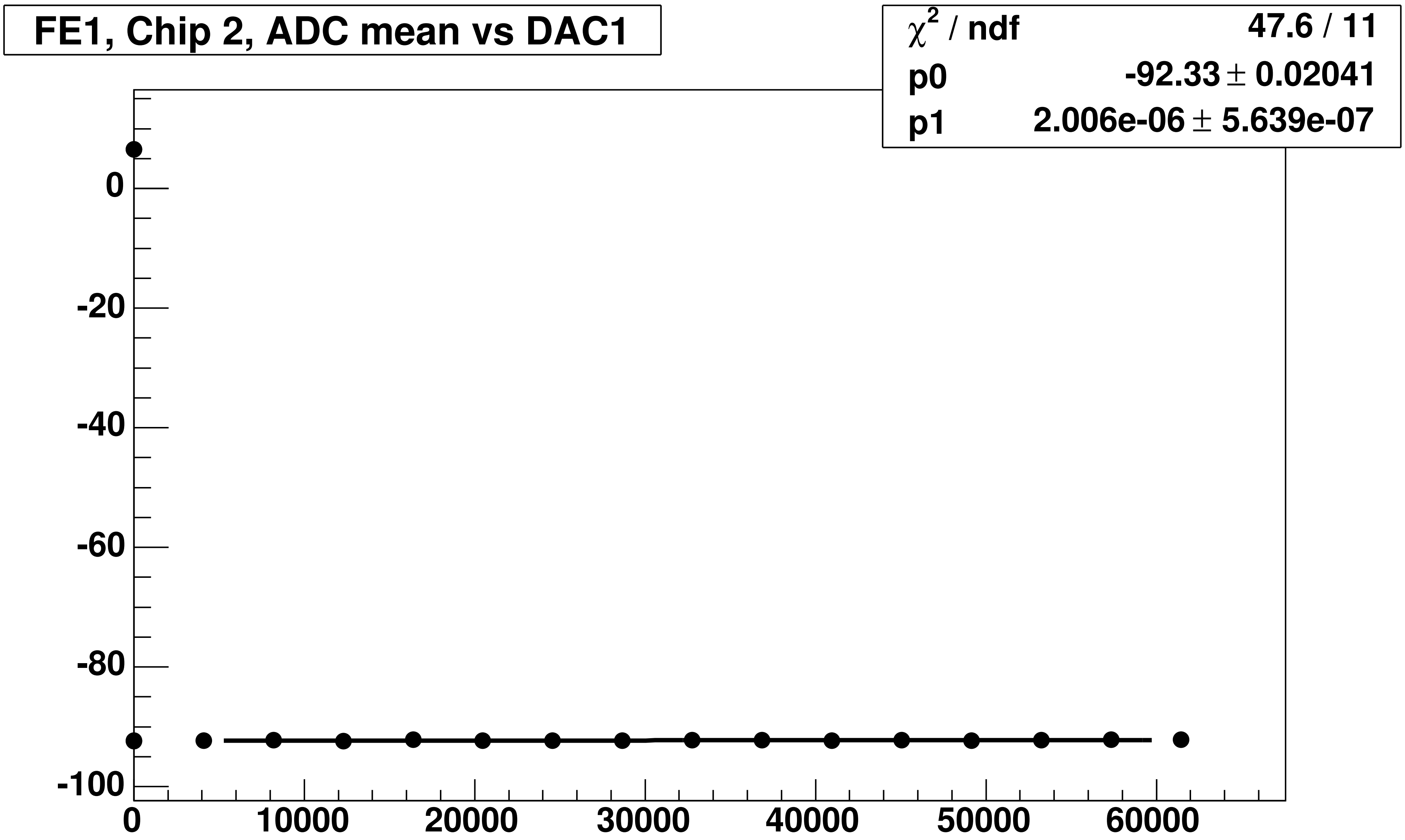
FE1, Chip 2, ADC mean vs DAC0
χ^2 / ndf 3757 / 11
p0 -90.44 ± 0.02185
p1 0.453 ± 7.019e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

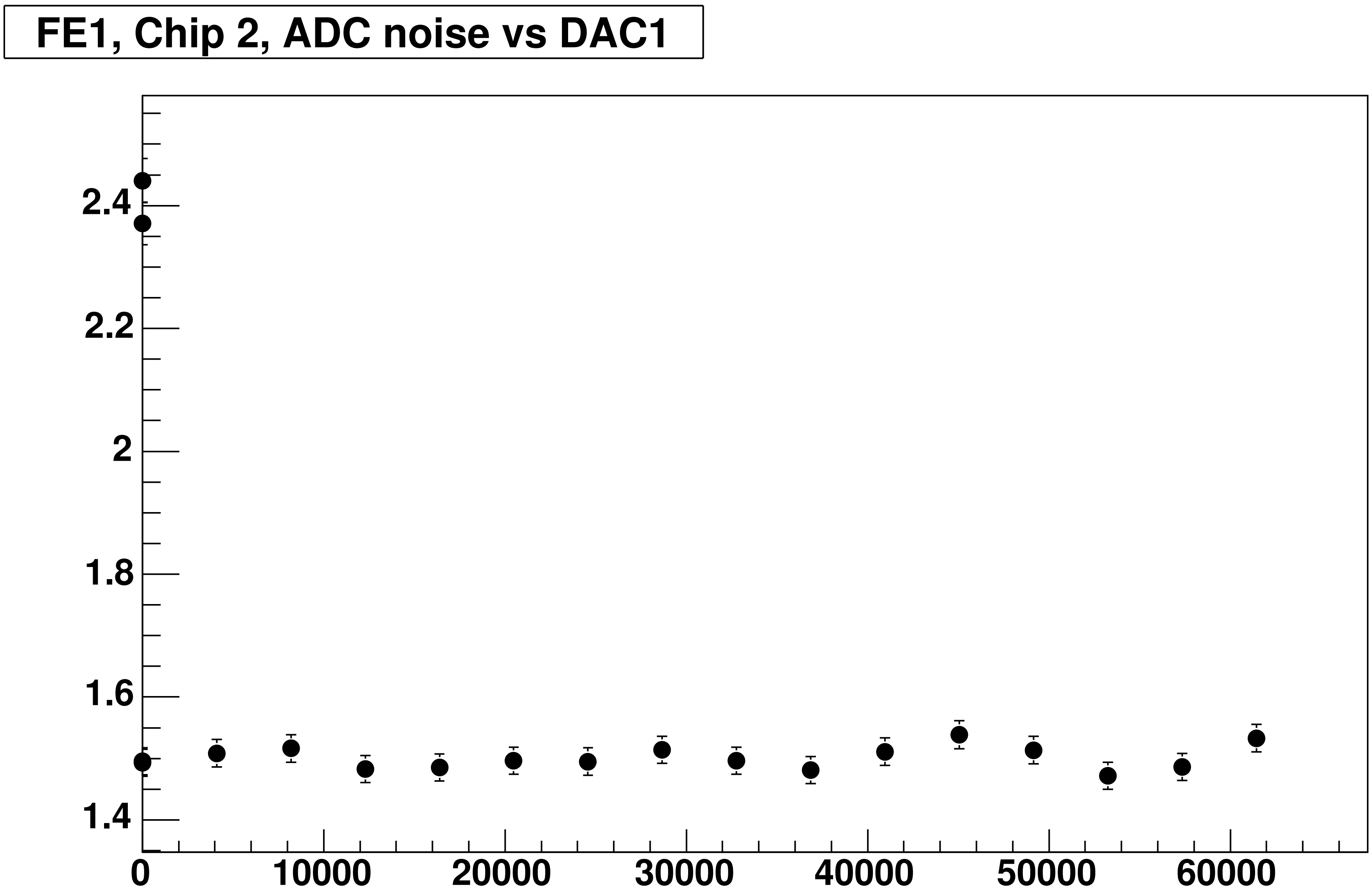


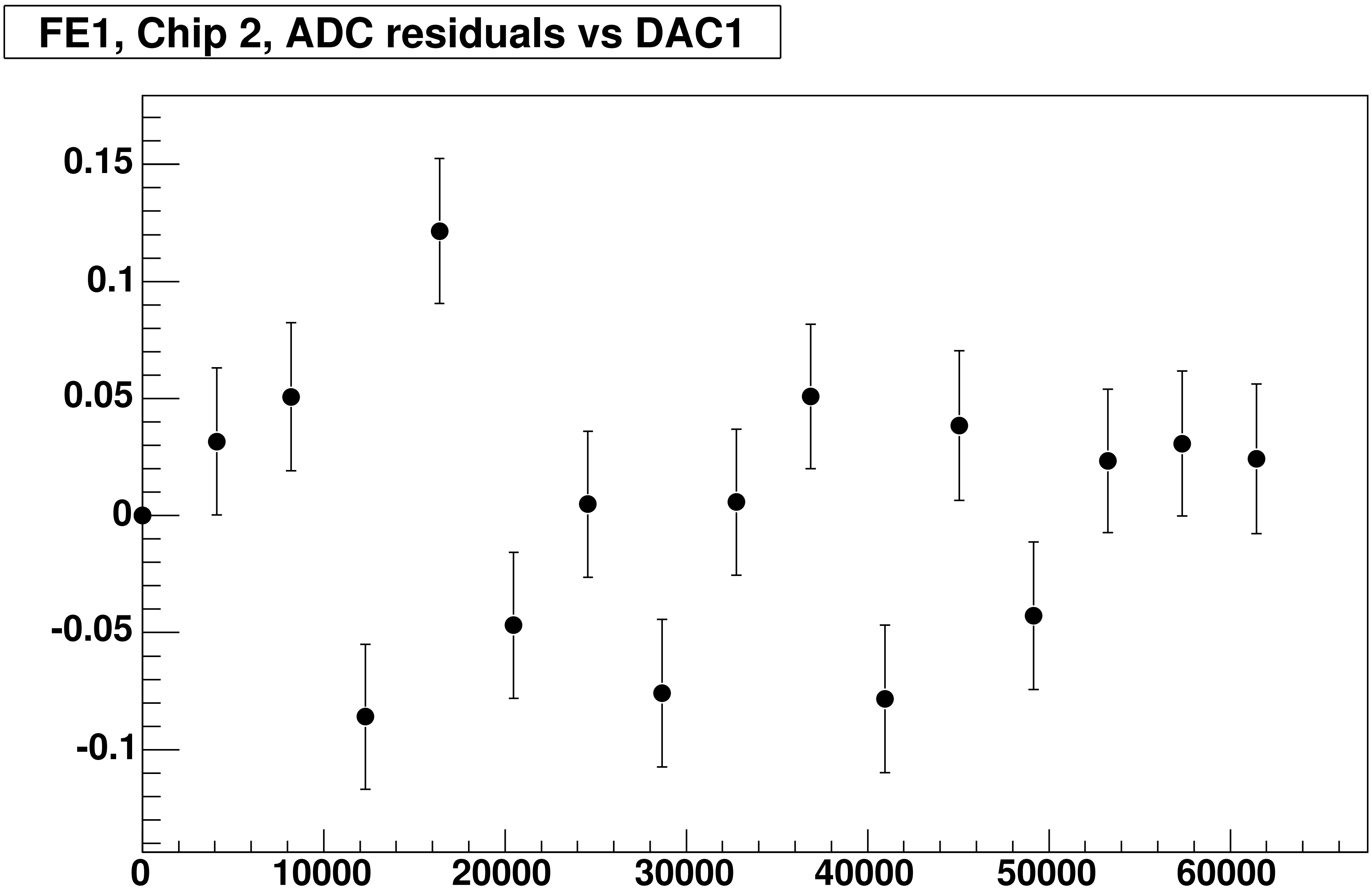
FE1, Chip 2, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

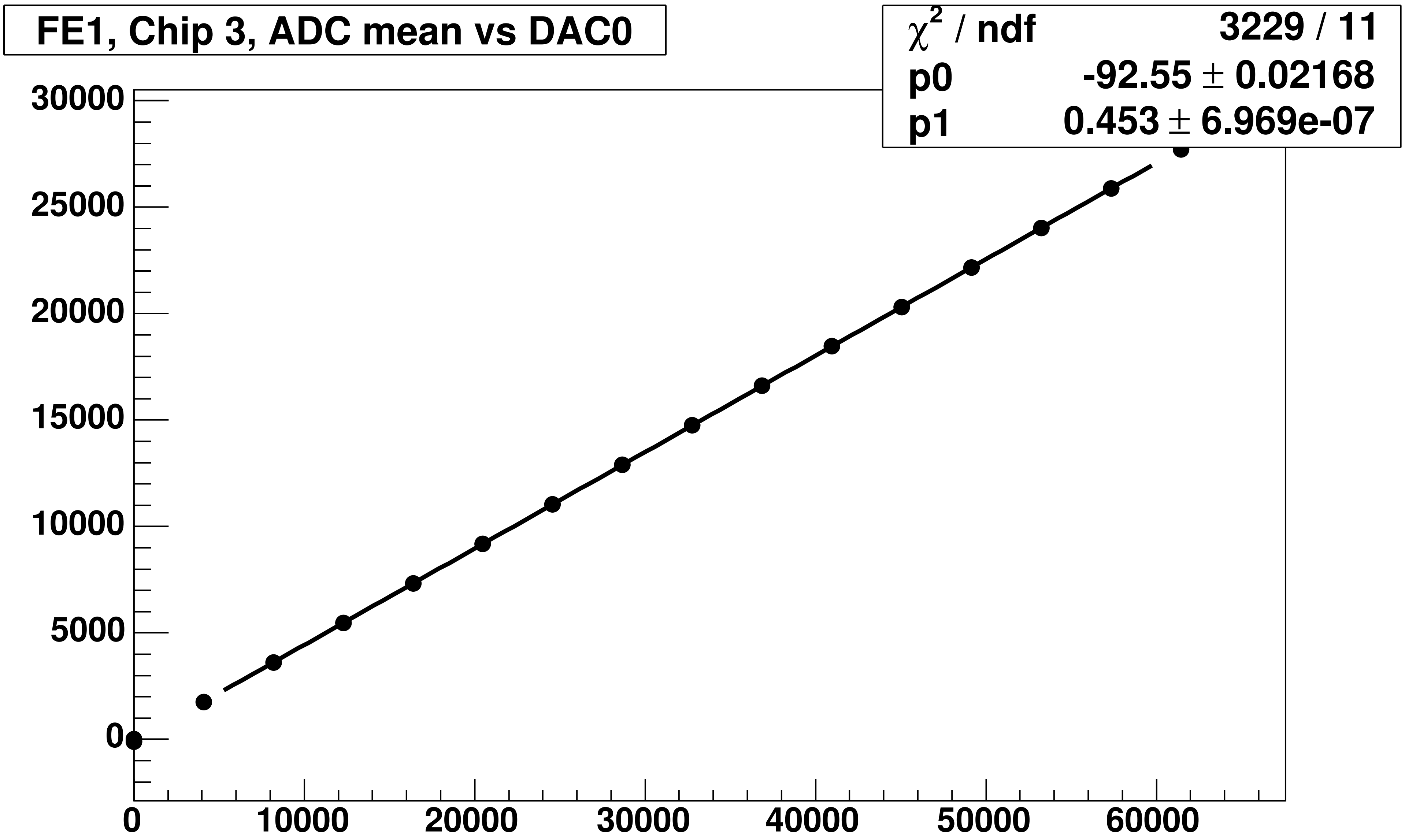


FE1, Chip 2, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

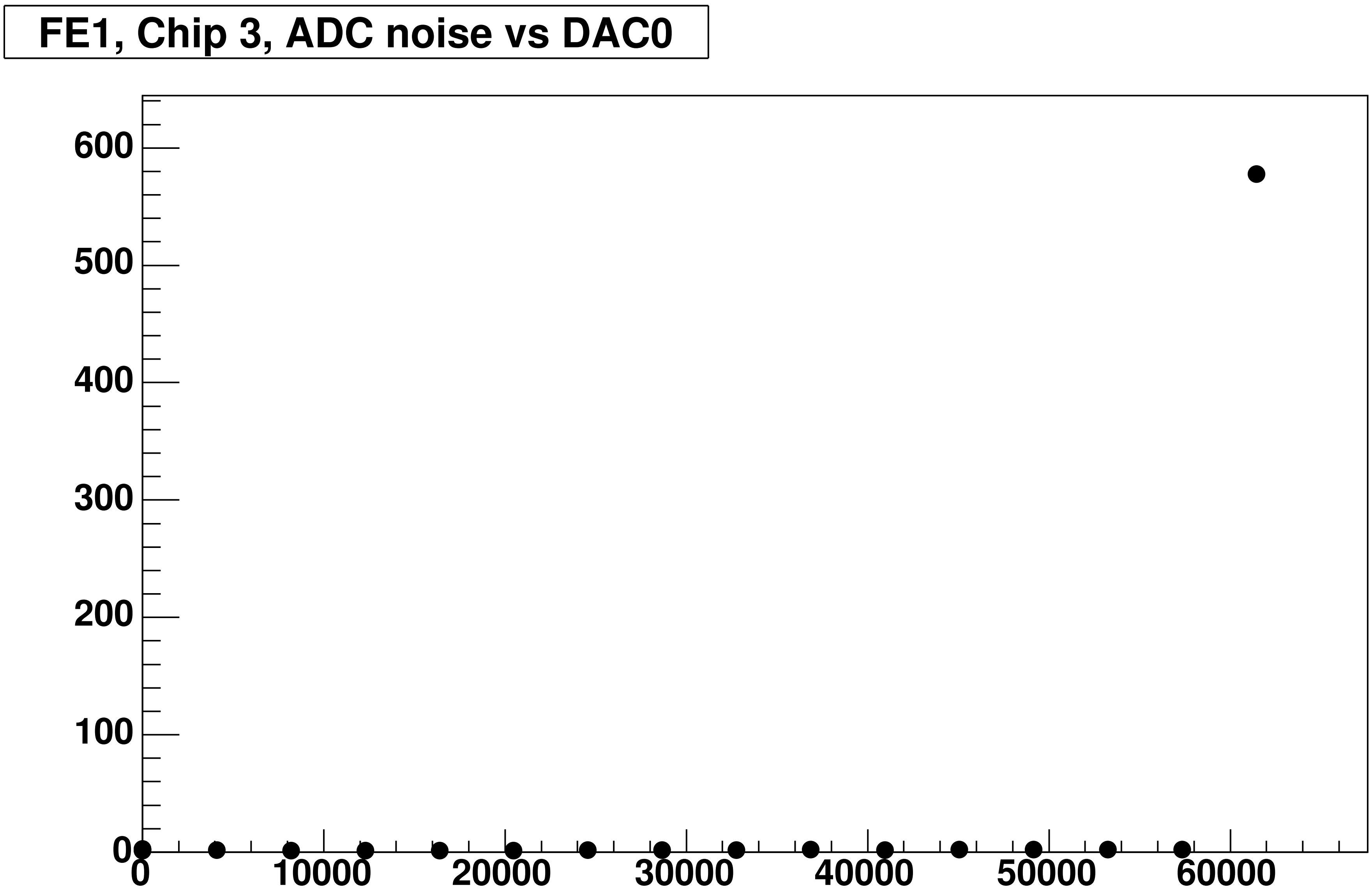

FE1, Chip 2, ADC mean vs DAC1
χ^2 / ndf 47.6 / 11
p0 -92.33 ± 0.02041
p1 2.006e-06 ± 5.639e-07
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

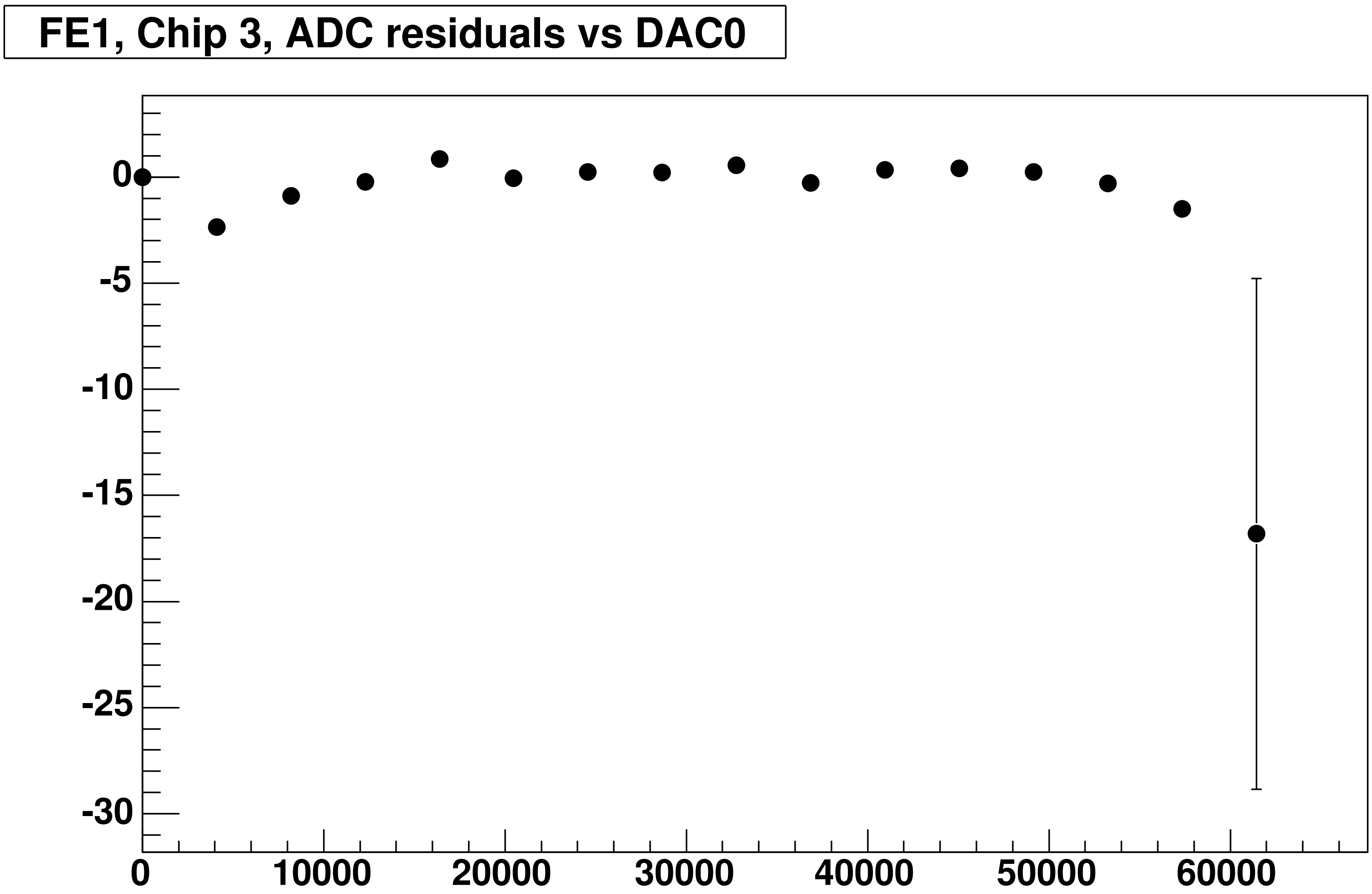

FE1, Chip 2, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

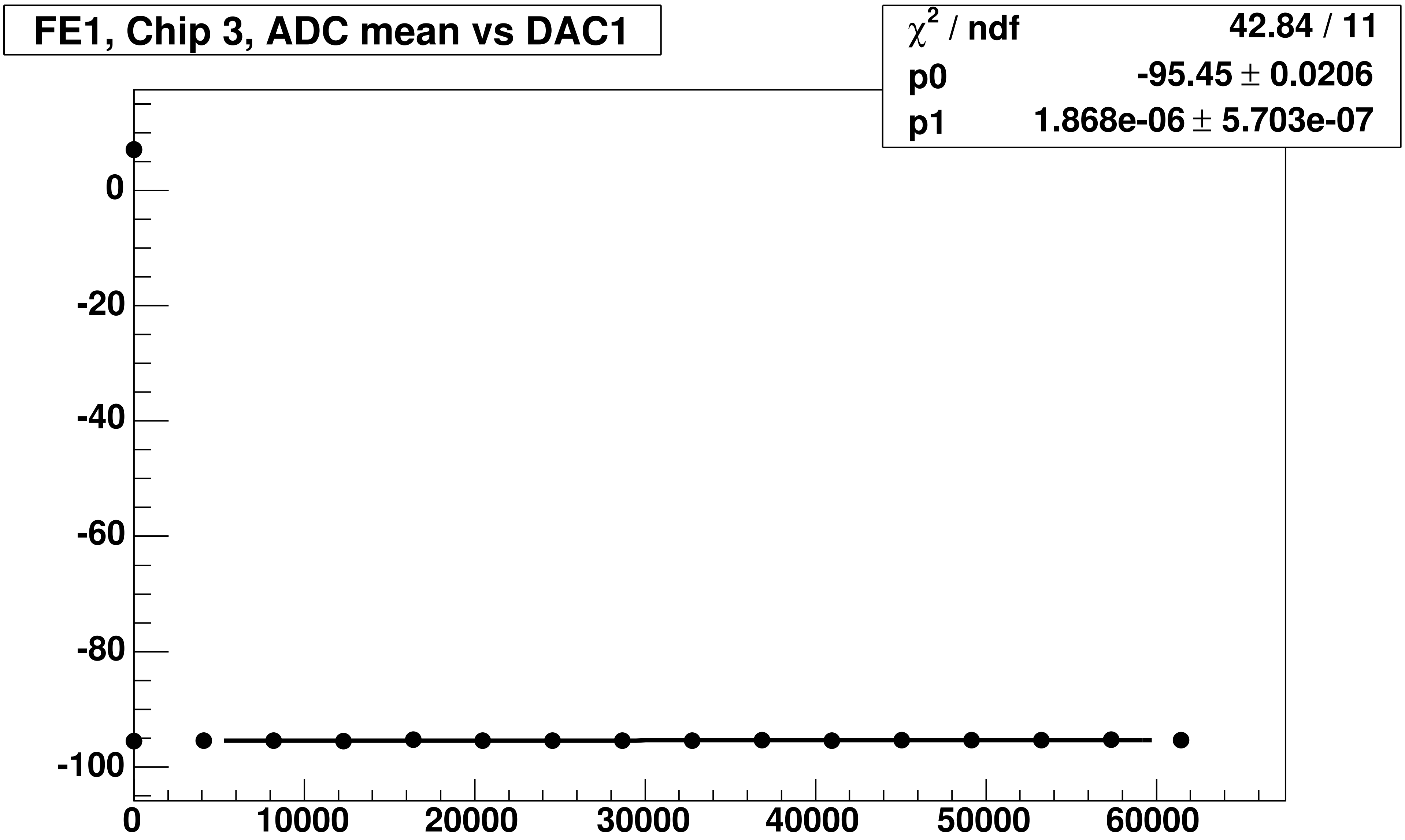

FE1, Chip 2, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000



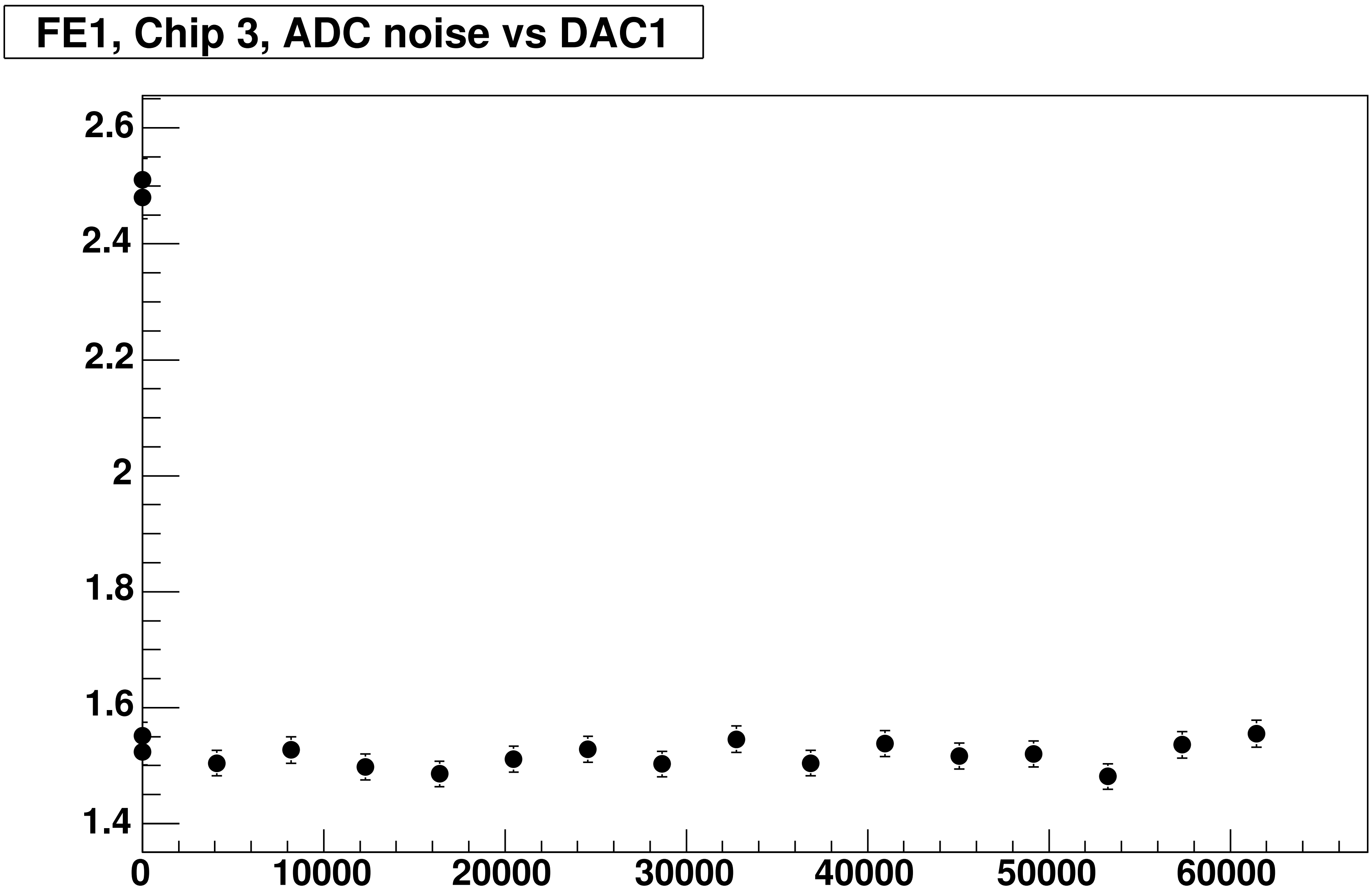
FE1, Chip 3, ADC mean vs DAC0
χ² / ndf 3229 / 11
p0 -92.55 ± 0.02168
p1 0.453 ± 6.969e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

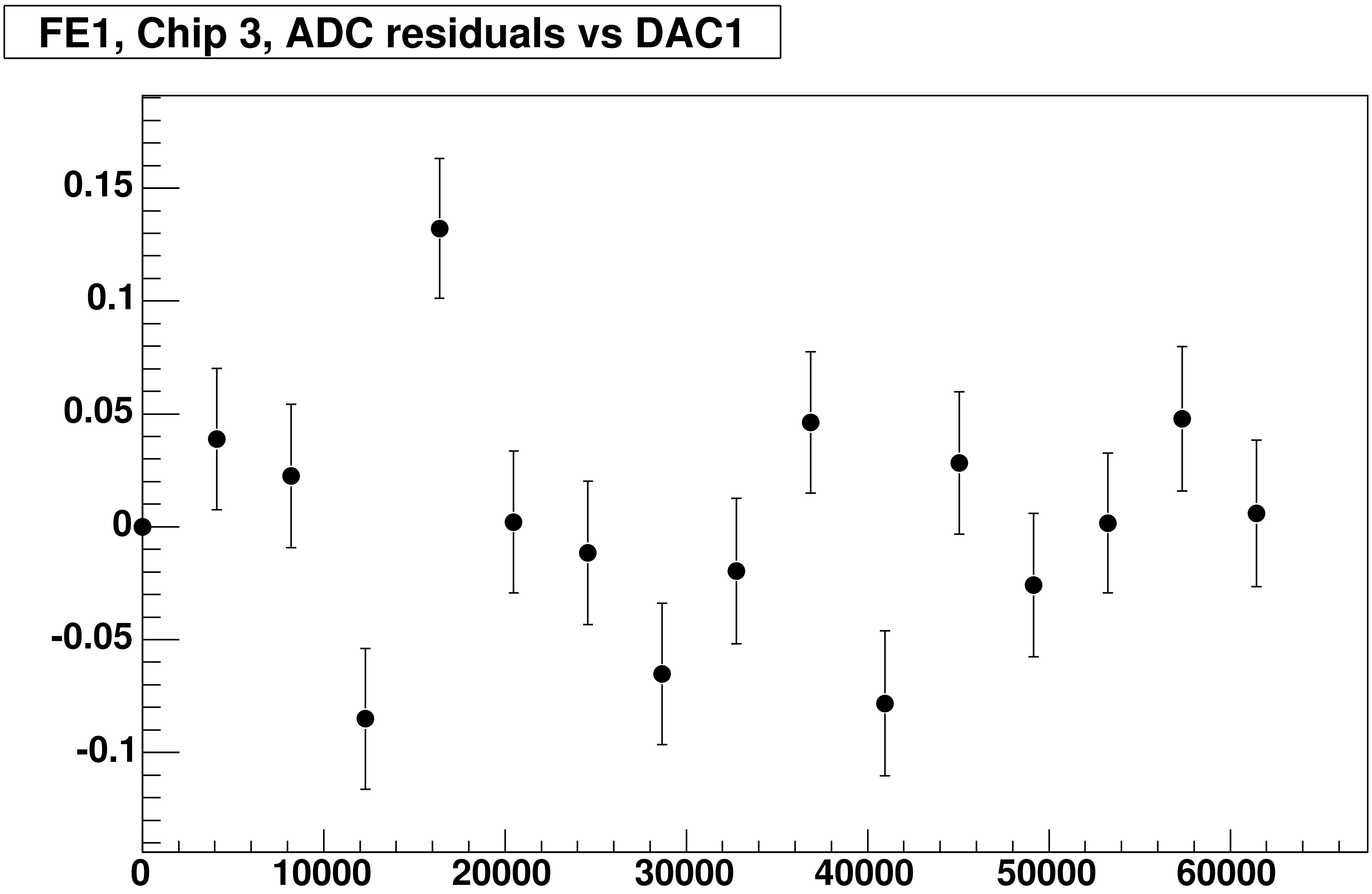

FE1, Chip 3, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

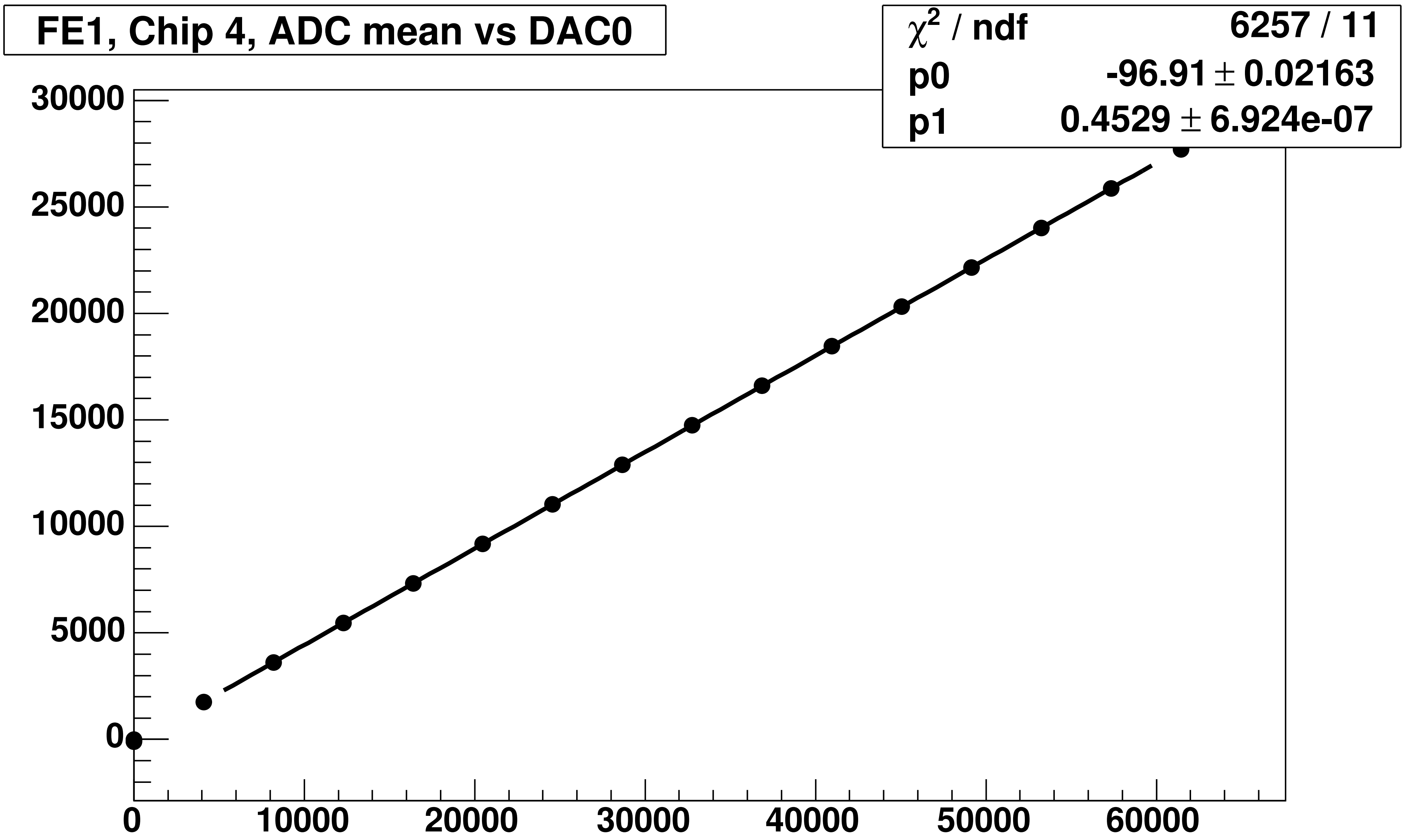

FE1, Chip 3, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

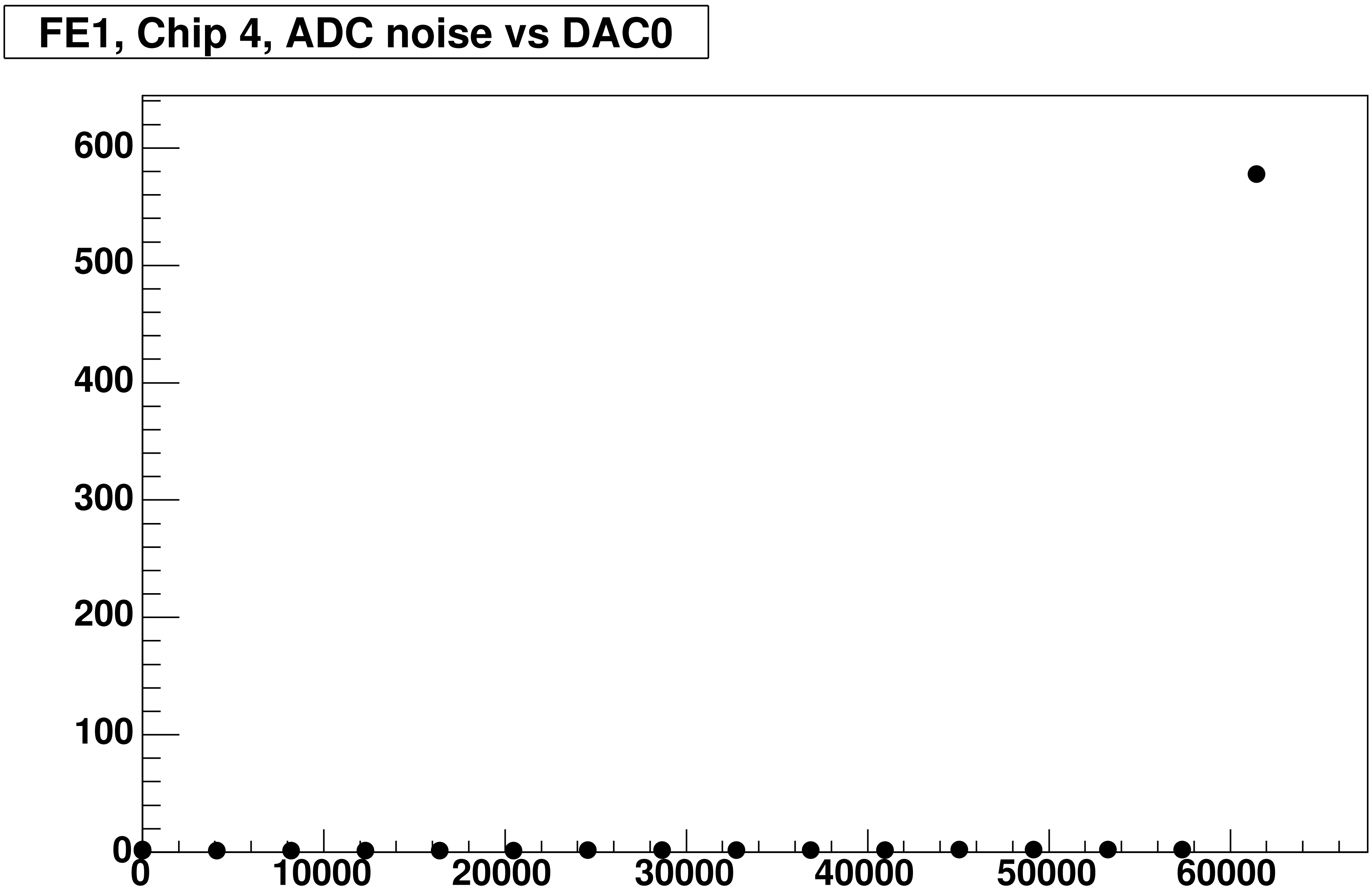


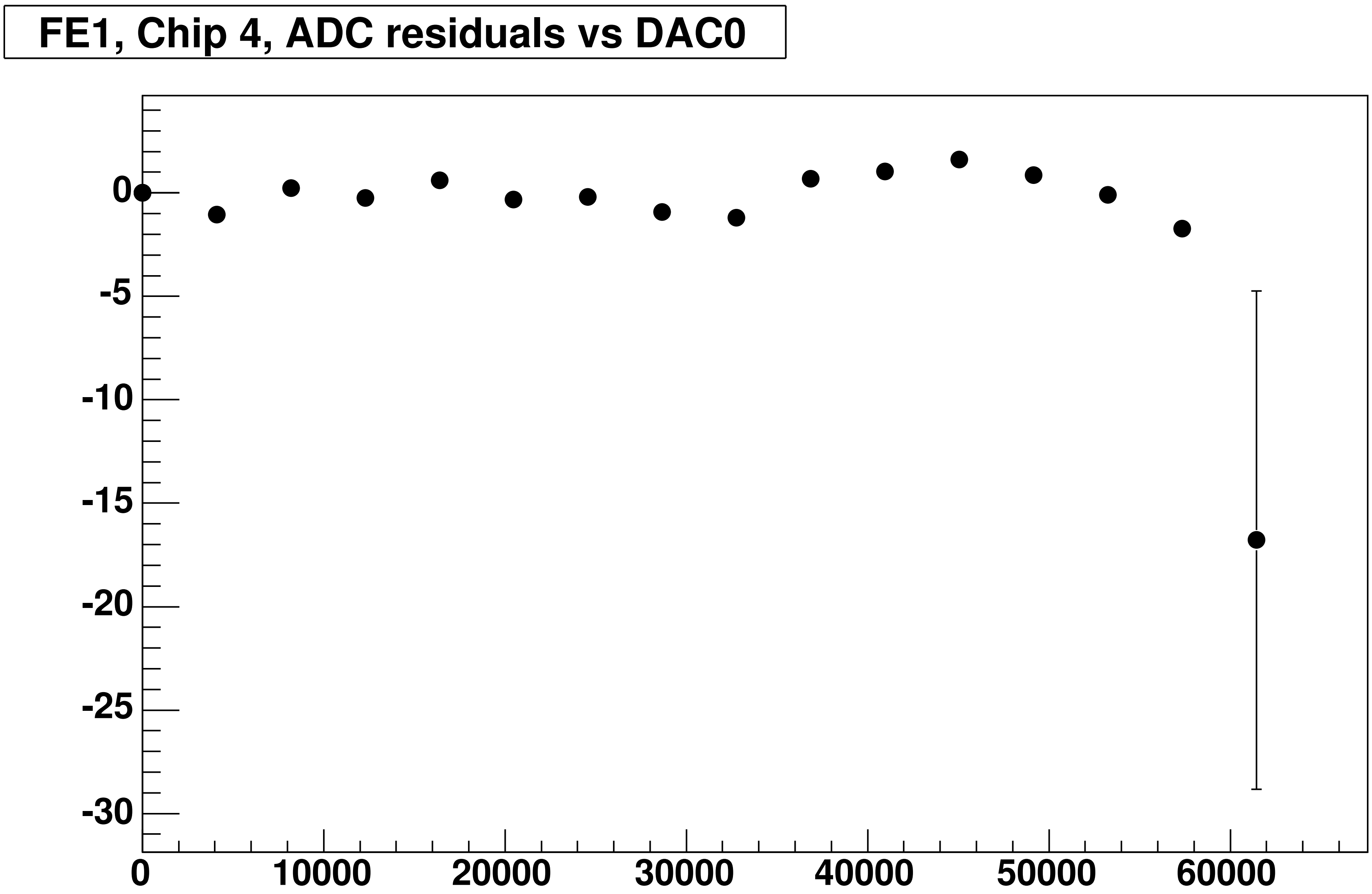
FE1, Chip 3, ADC mean vs DAC1
χ^2 / ndf 42.84 / 11
p0 -95.45 ± 0.0206
p1 1.868e-06 ± 5.703e-07
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

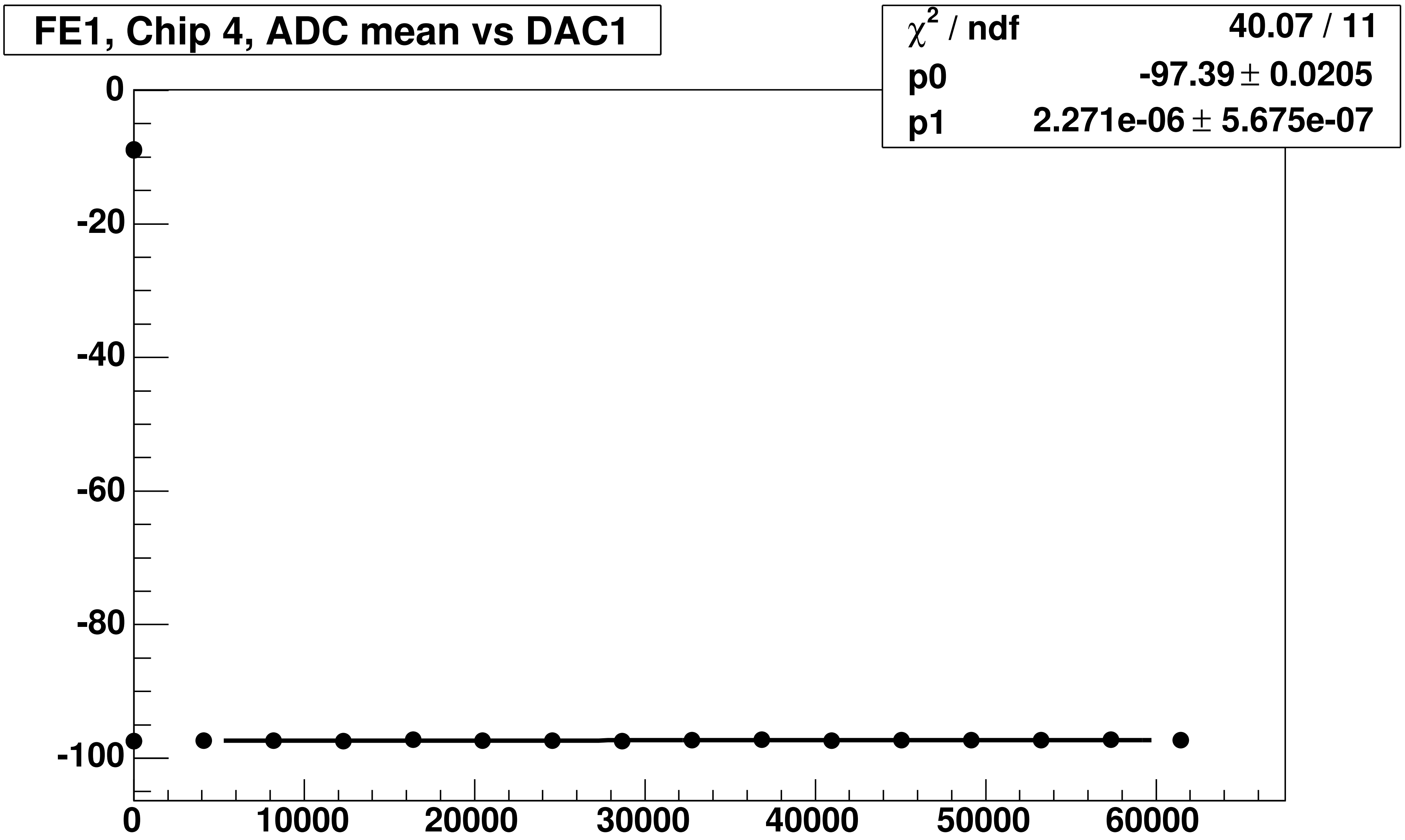

FE1, Chip 3, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

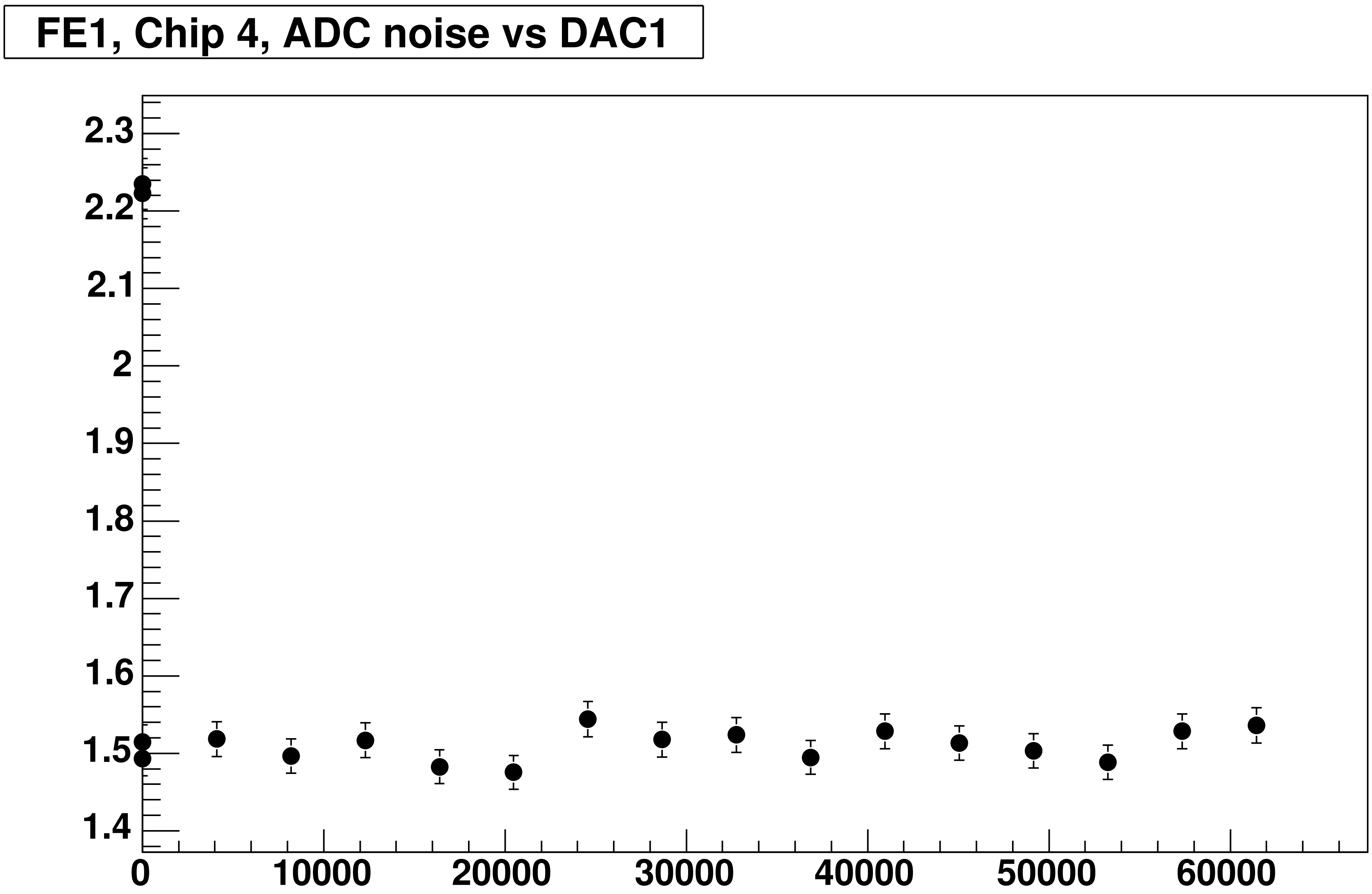

FE1, Chip 4, ADC mean vs DAC0
χ^2 / ndf 6257 / 11
p0 -96.91 ± 0.02163
p1 0.4529 ± 6.924e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE1, Chip 4, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

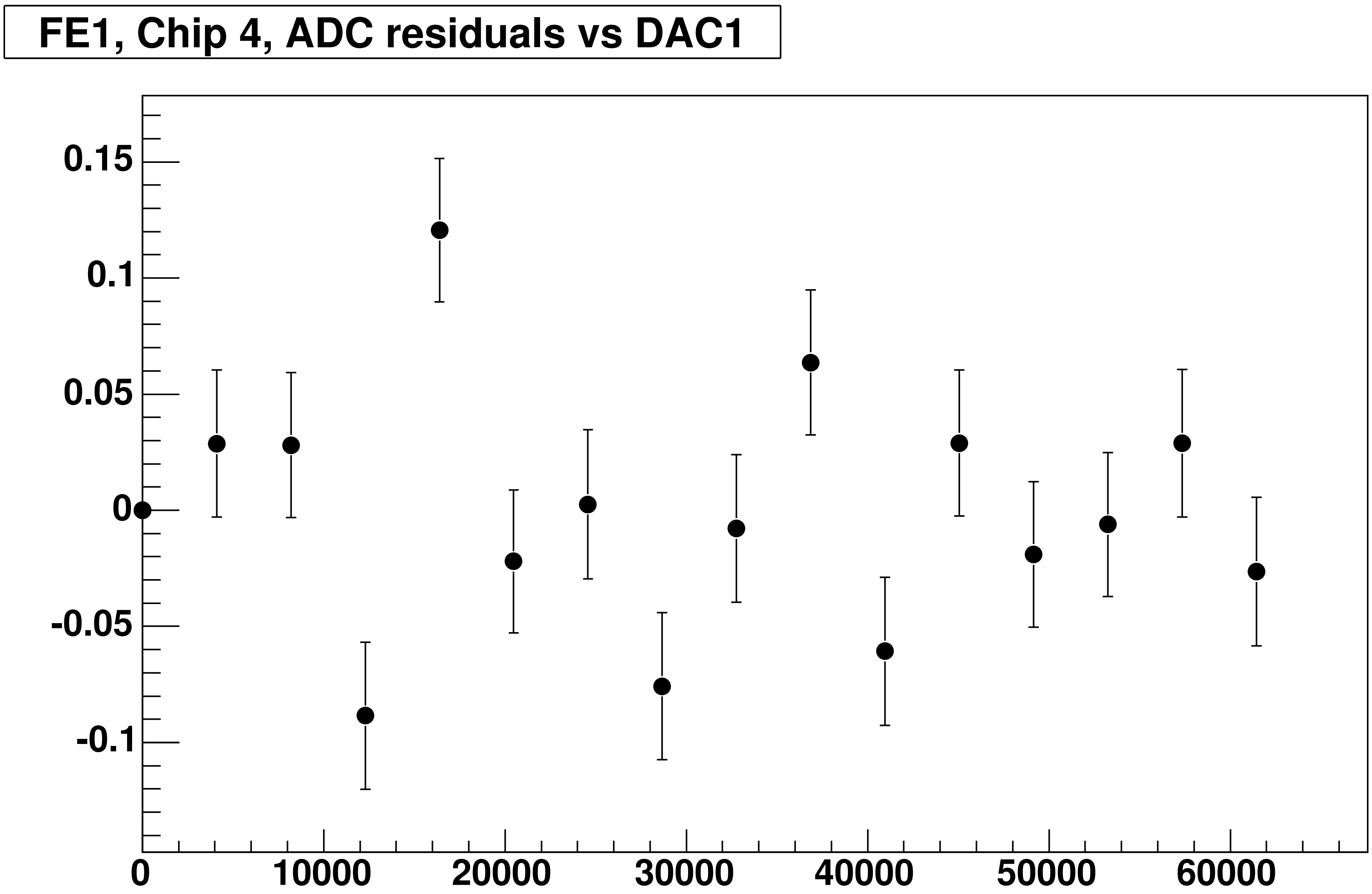

FE1, Chip 4, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

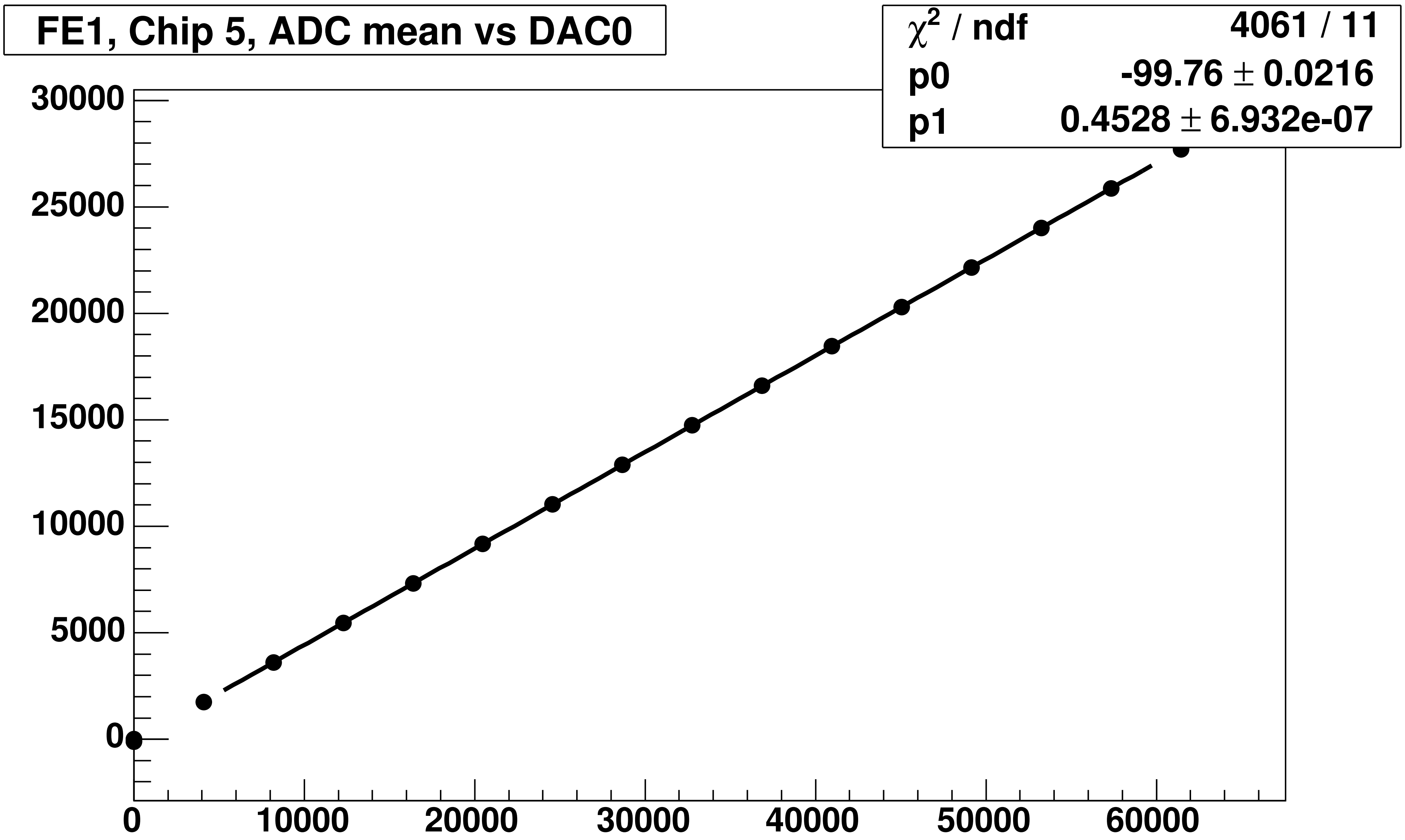


FE1, Chip 4, ADC mean vs DAC1
χ² / ndf 40.07 / 11
p0 -97.39 ± 0.0205
p1 2.271e-06 ± 5.675e-07
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

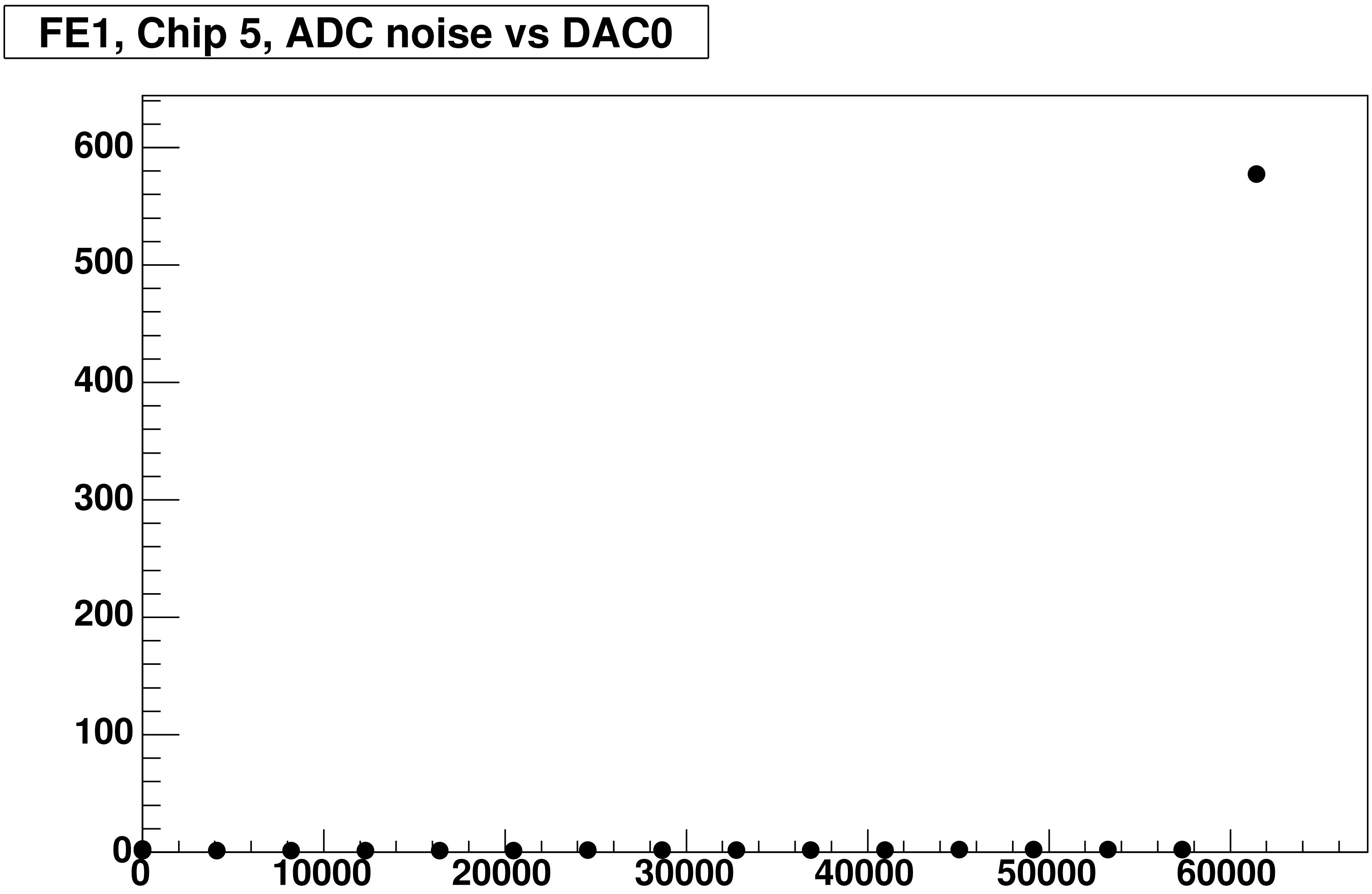


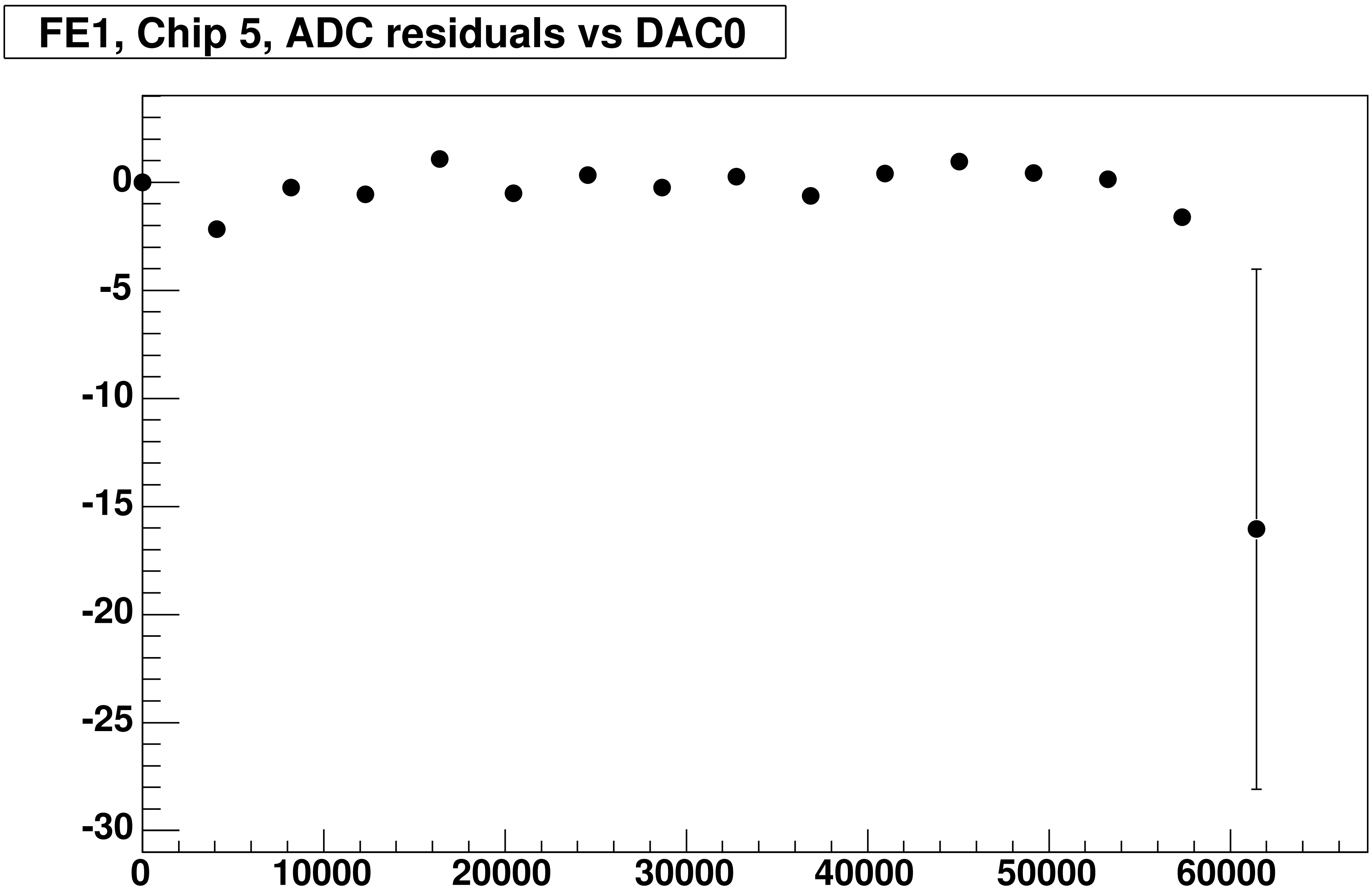
FE1, Chip 4, ADC noise vs DAC1
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

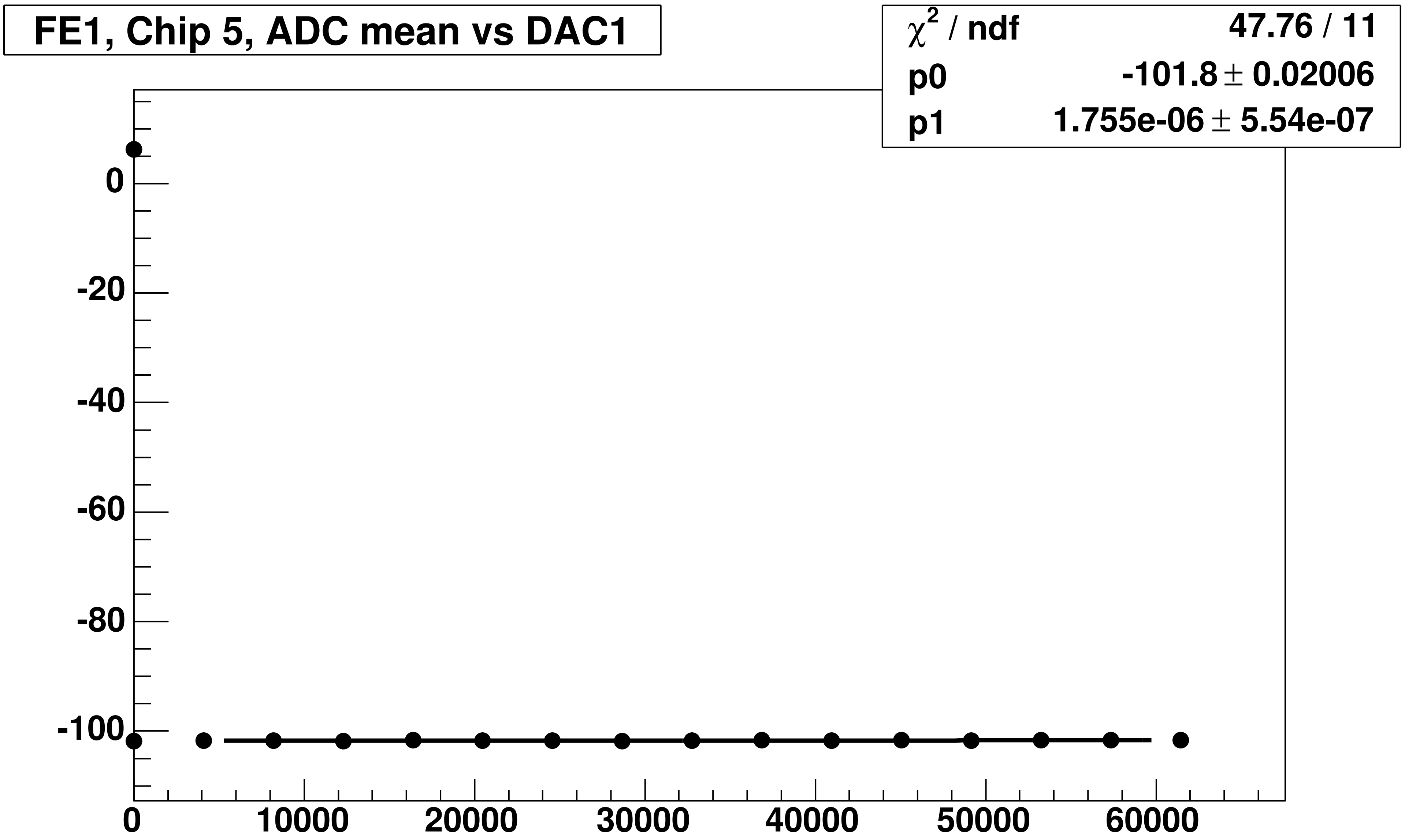

FE1, Chip 4, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

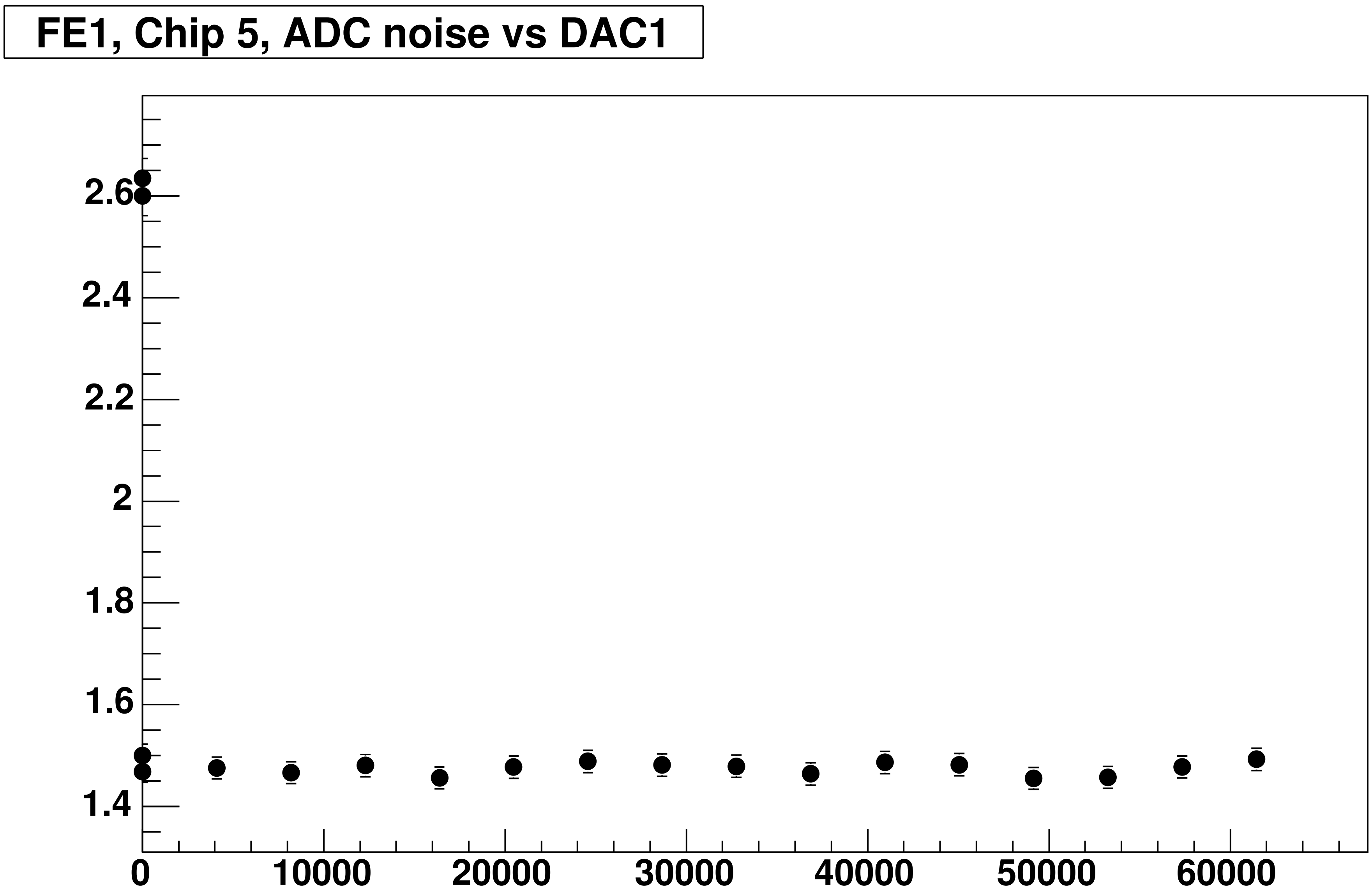


FE1, Chip 5, ADC mean vs DAC0
χ^2 / ndf 4061 / 11
p0 -99.76 ± 0.0216
p1 0.4528 ± 6.932e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

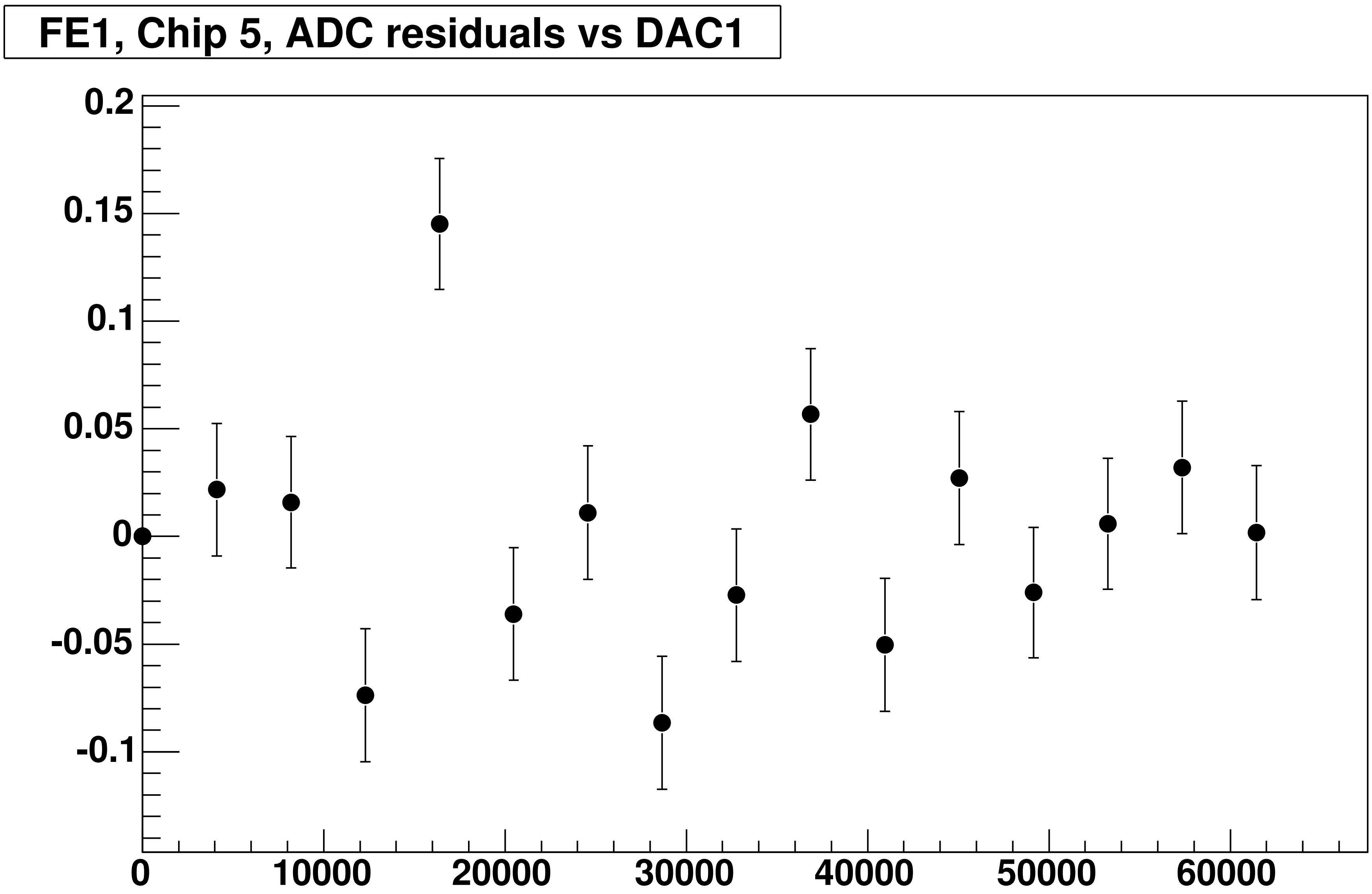

FE1, Chip 5, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000


FE1, Chip 5, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

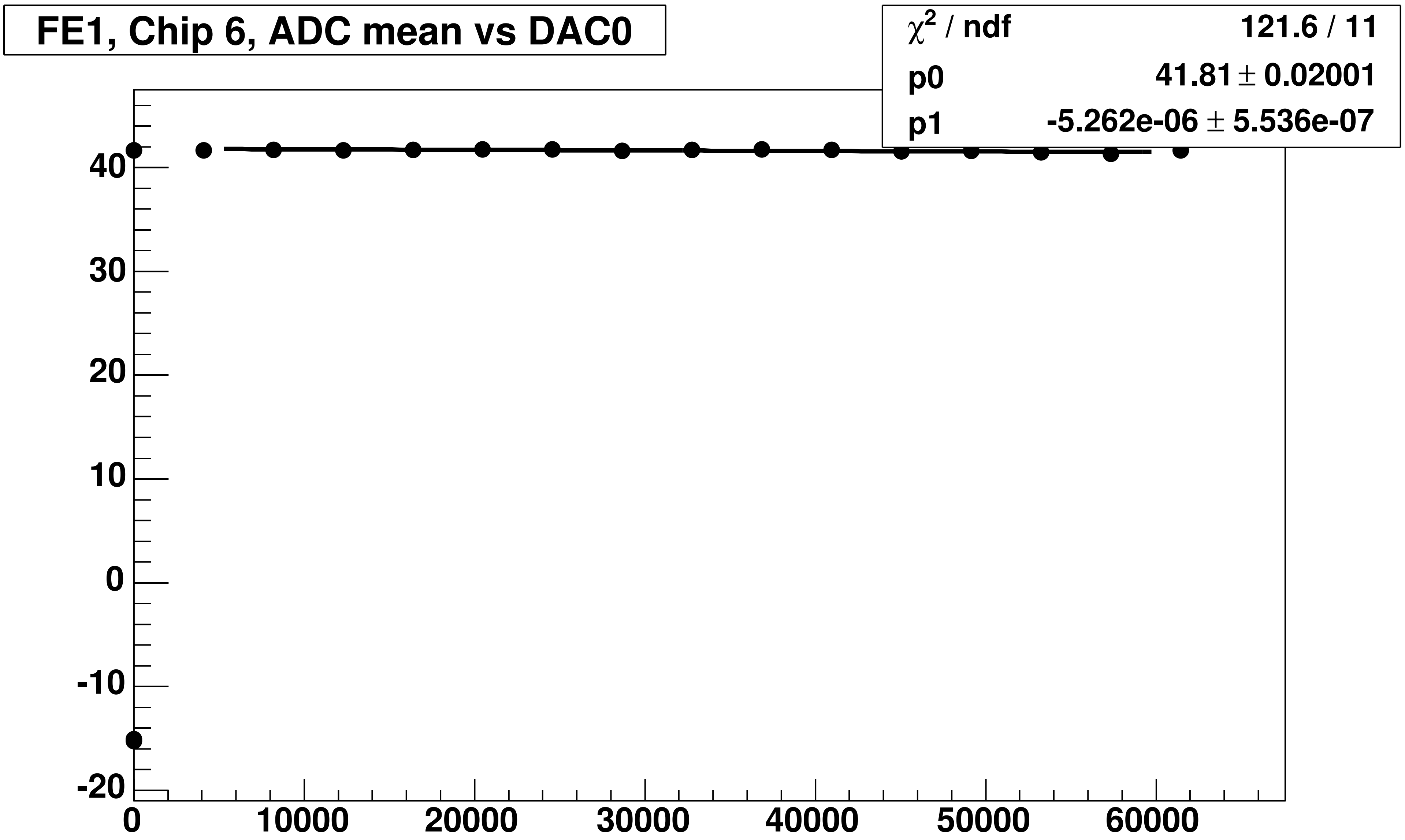

FE1, Chip 5, ADC mean vs DAC1
χ^2 / ndf 47.76 / 11
p0 -101.8 ± 0.02006
p1 1.755e-06 ± 5.54e-07
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

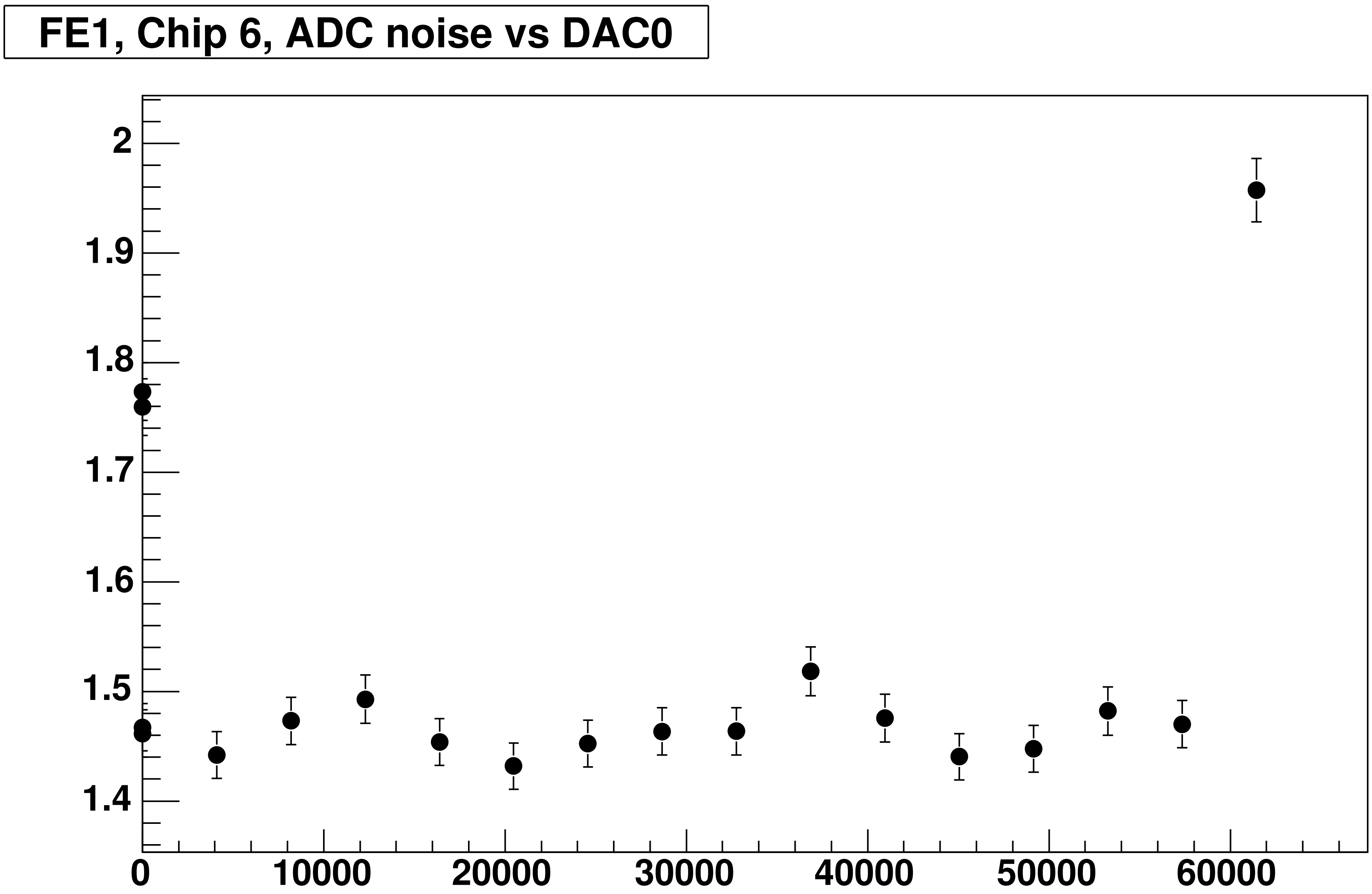


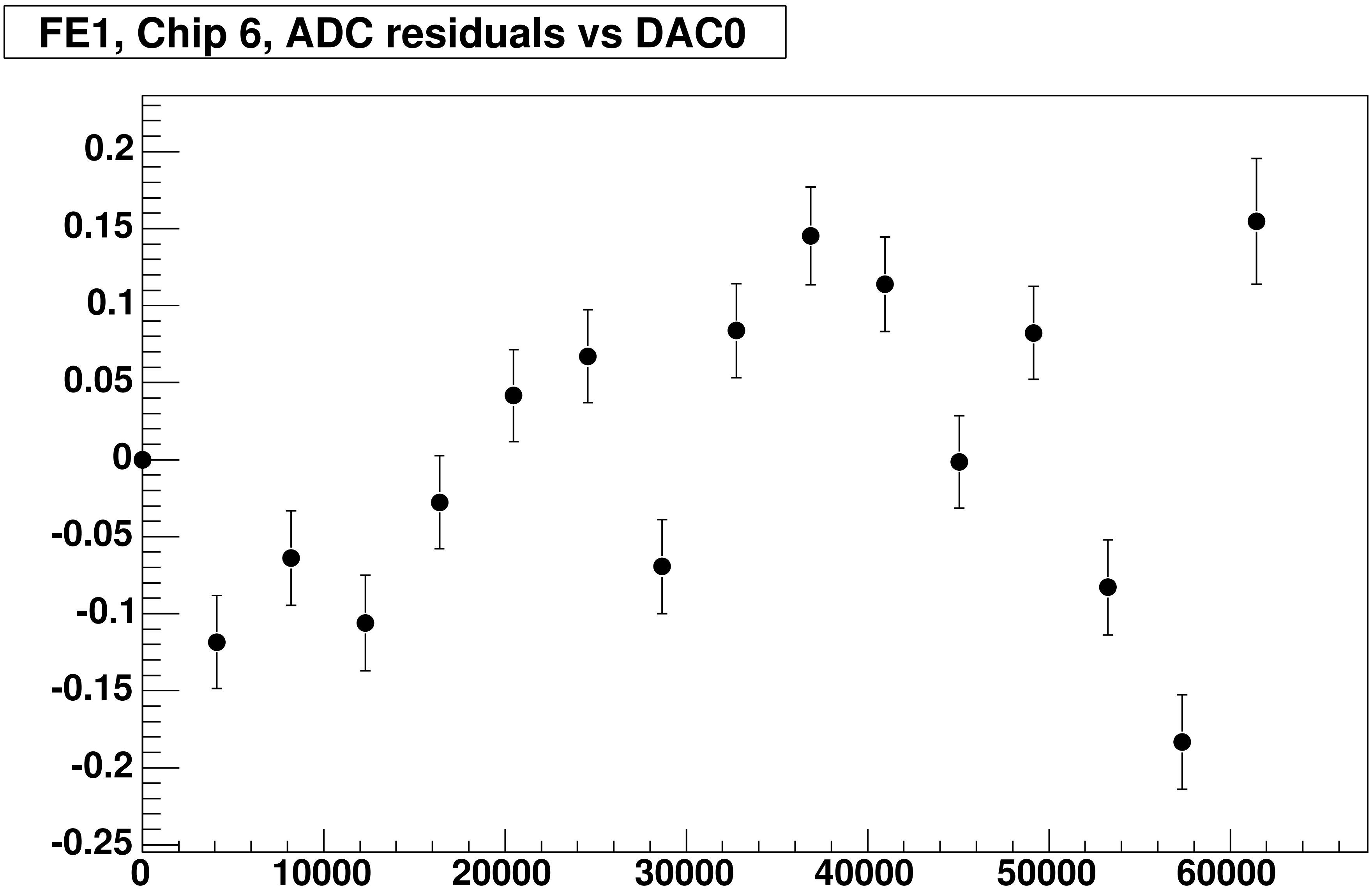
FE1, Chip 5, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

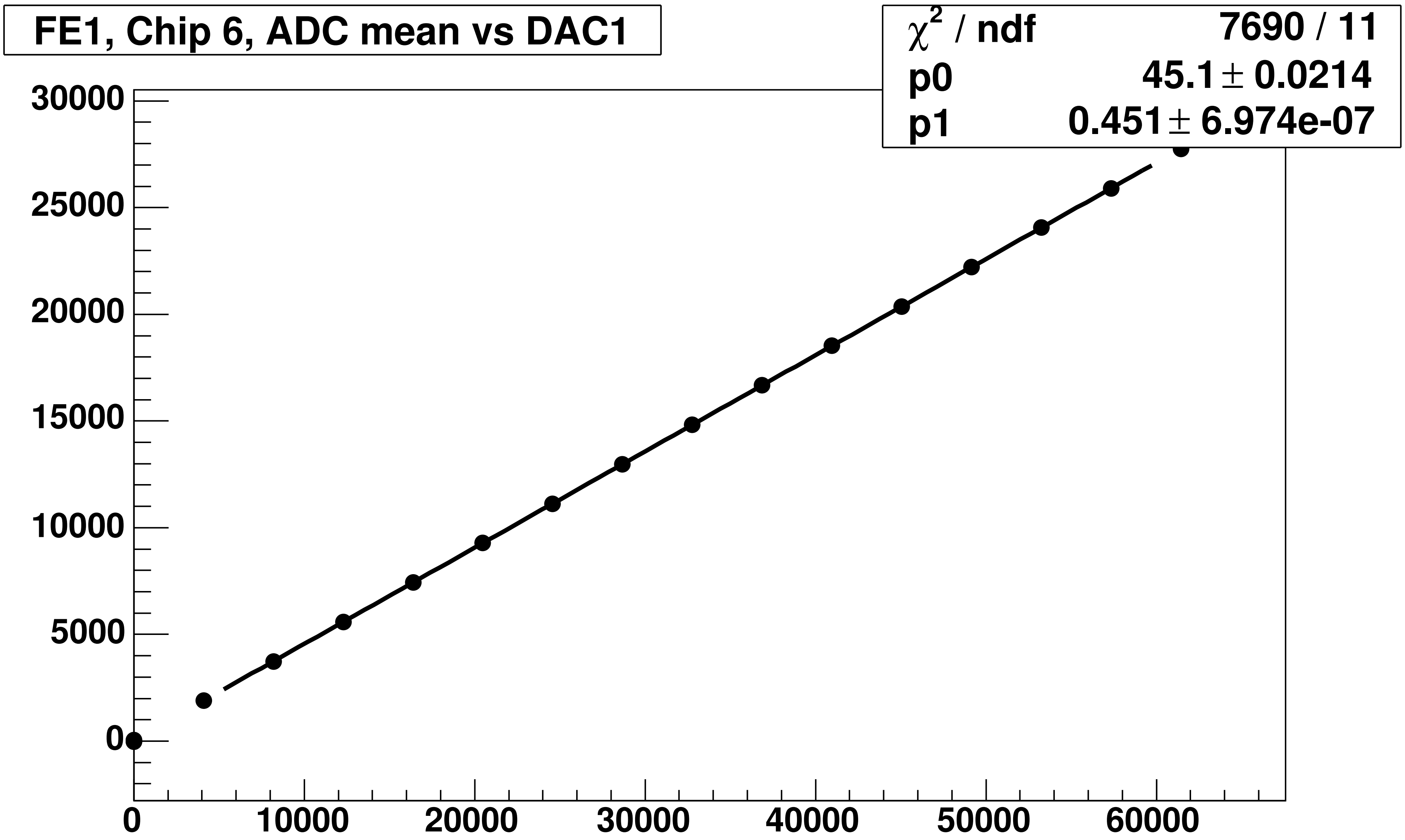


FE1, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

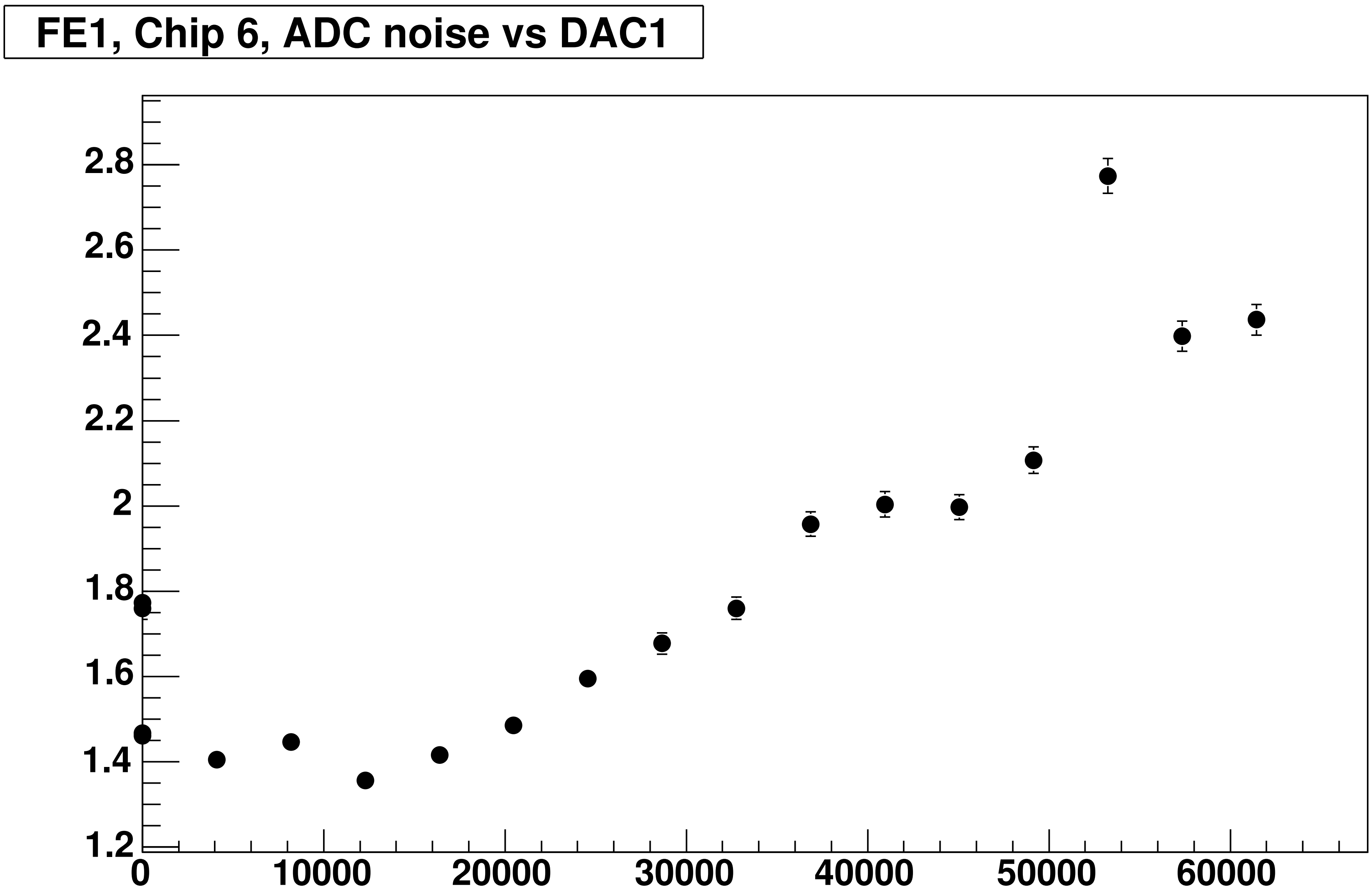

FE1, Chip 6, ADC mean vs DAC0
χ^2 / ndf 121.6 / 11
p0 41.81 ± 0.02001
p1 -5.262e-06 ± 5.536e-07
40
30
20
10
0
-10
-20
0
10000
20000
30000
40000
50000
60000


FE1, 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

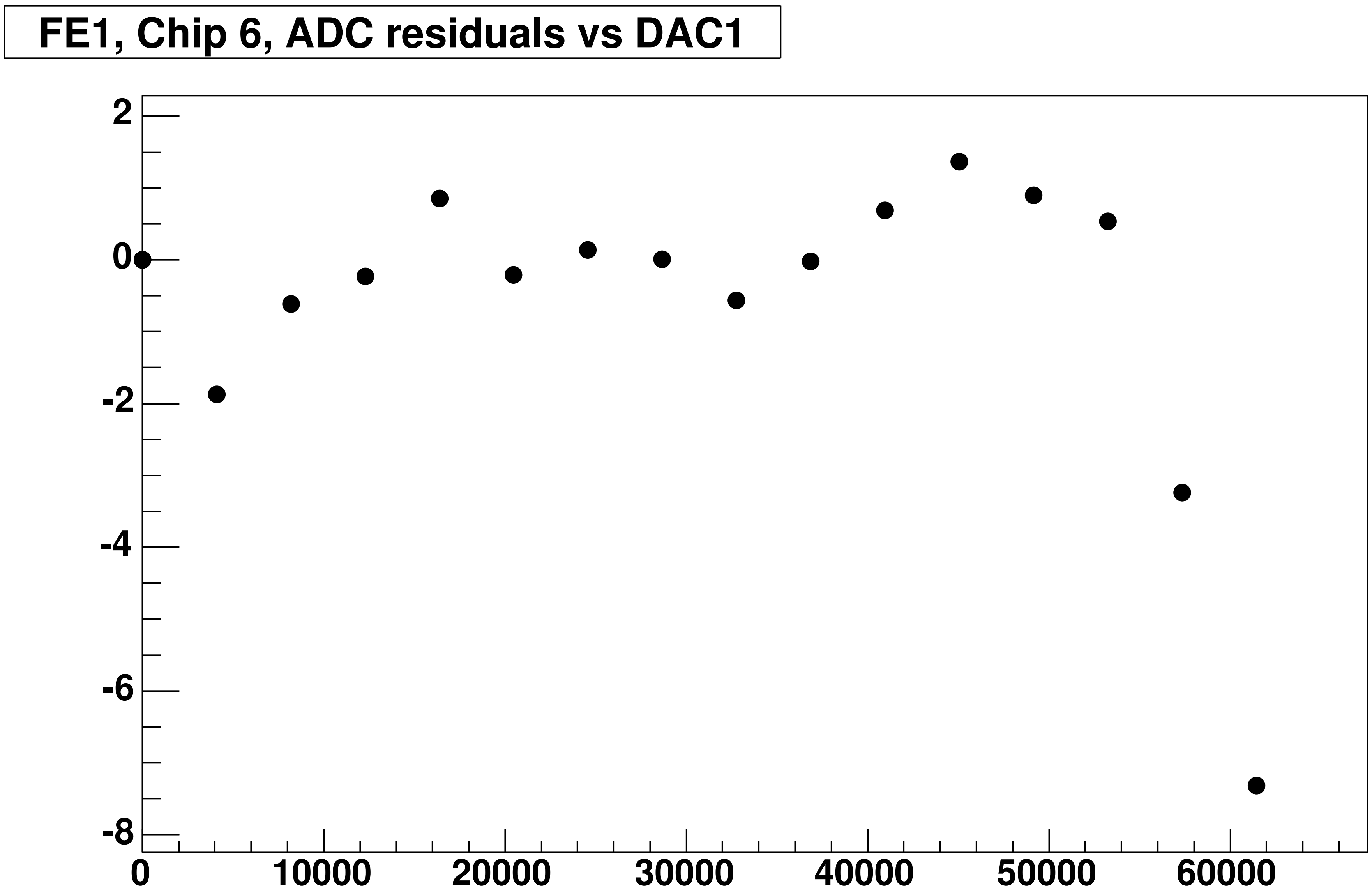

FE1, Chip 6, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

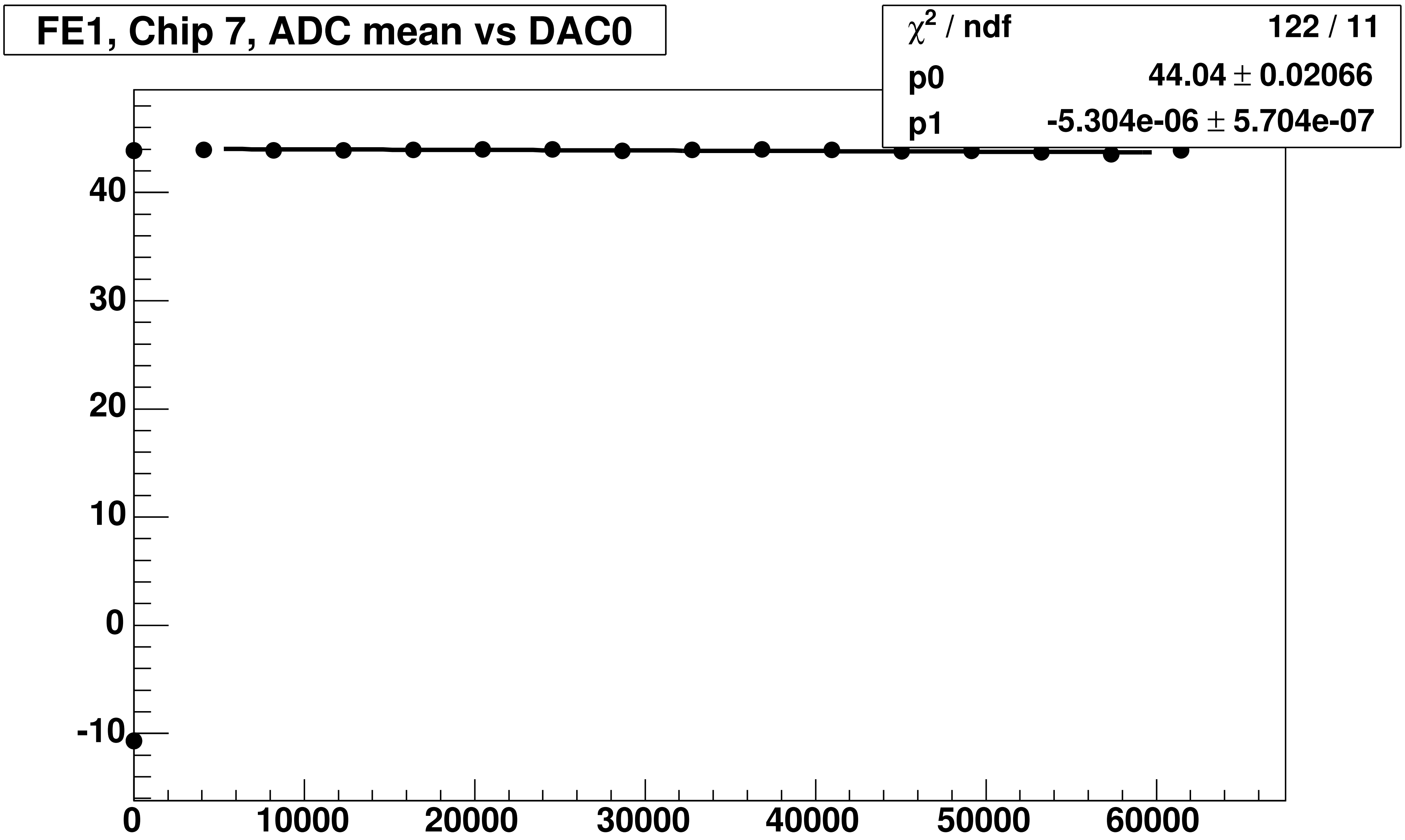


FE1, Chip 6, ADC mean vs DAC1
χ² / ndf 7690 / 11
p0 45.1 ± 0.0214
p1 0.451 ± 6.974e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

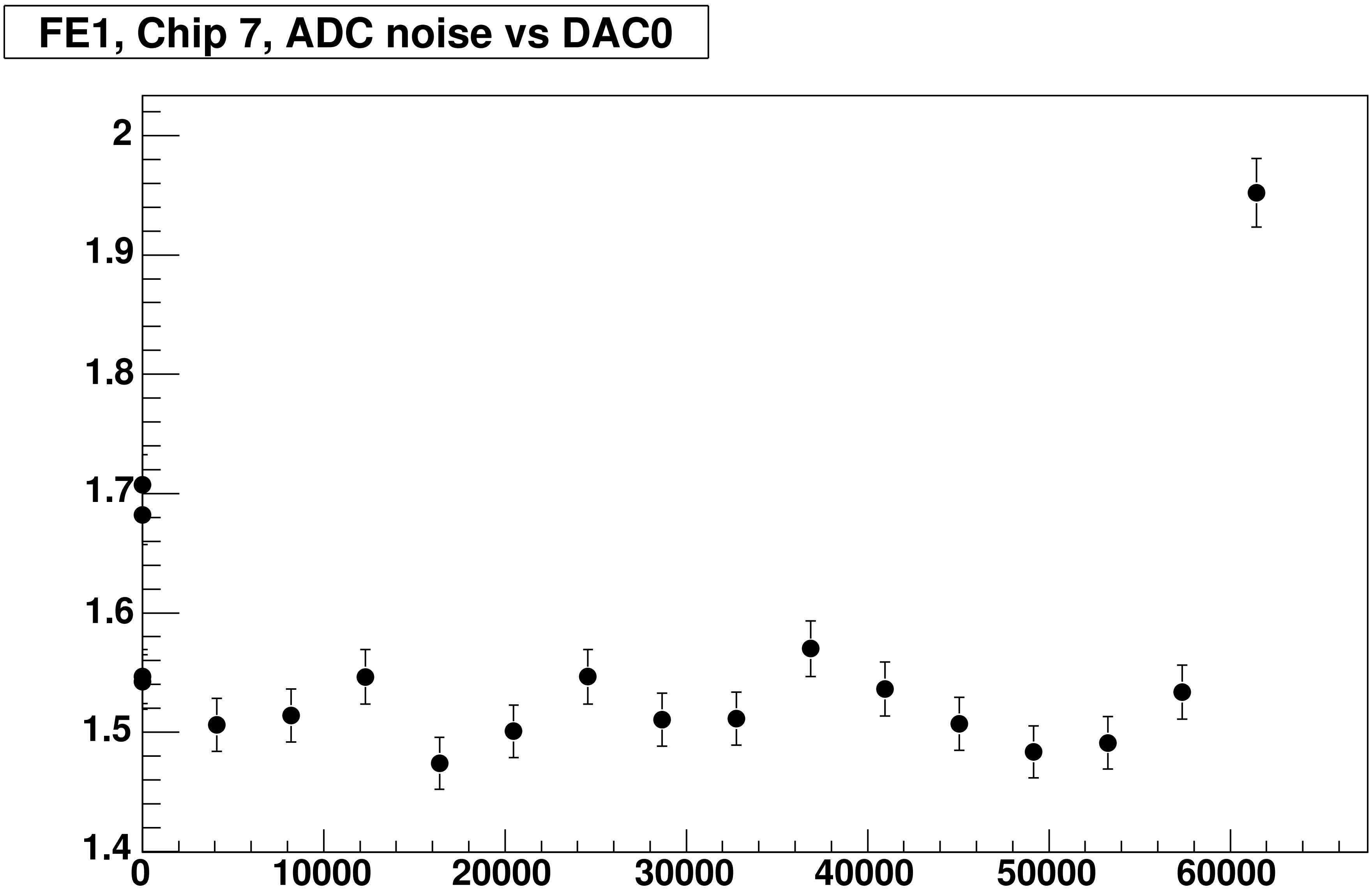


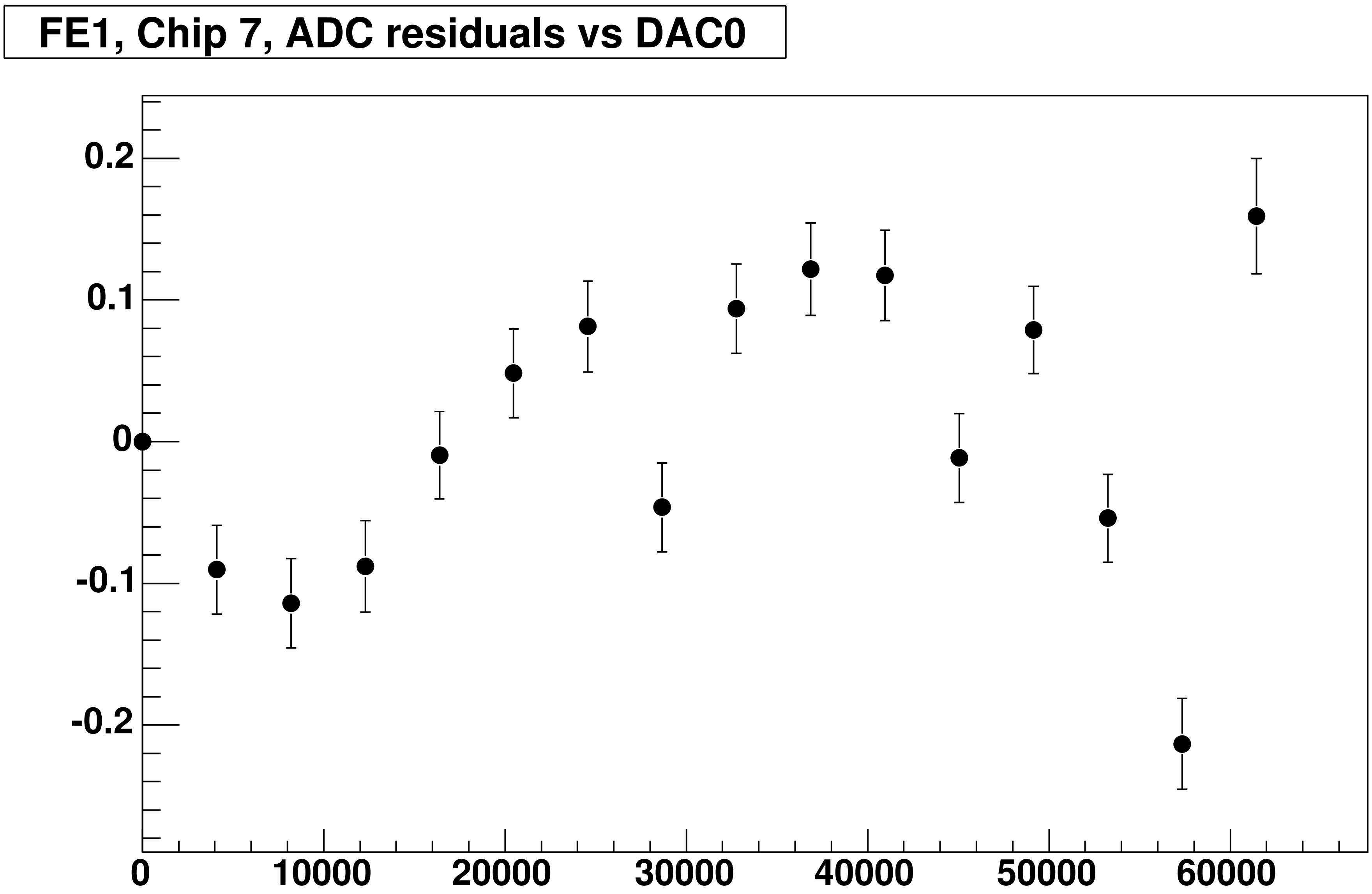
FE1, Chip 6, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

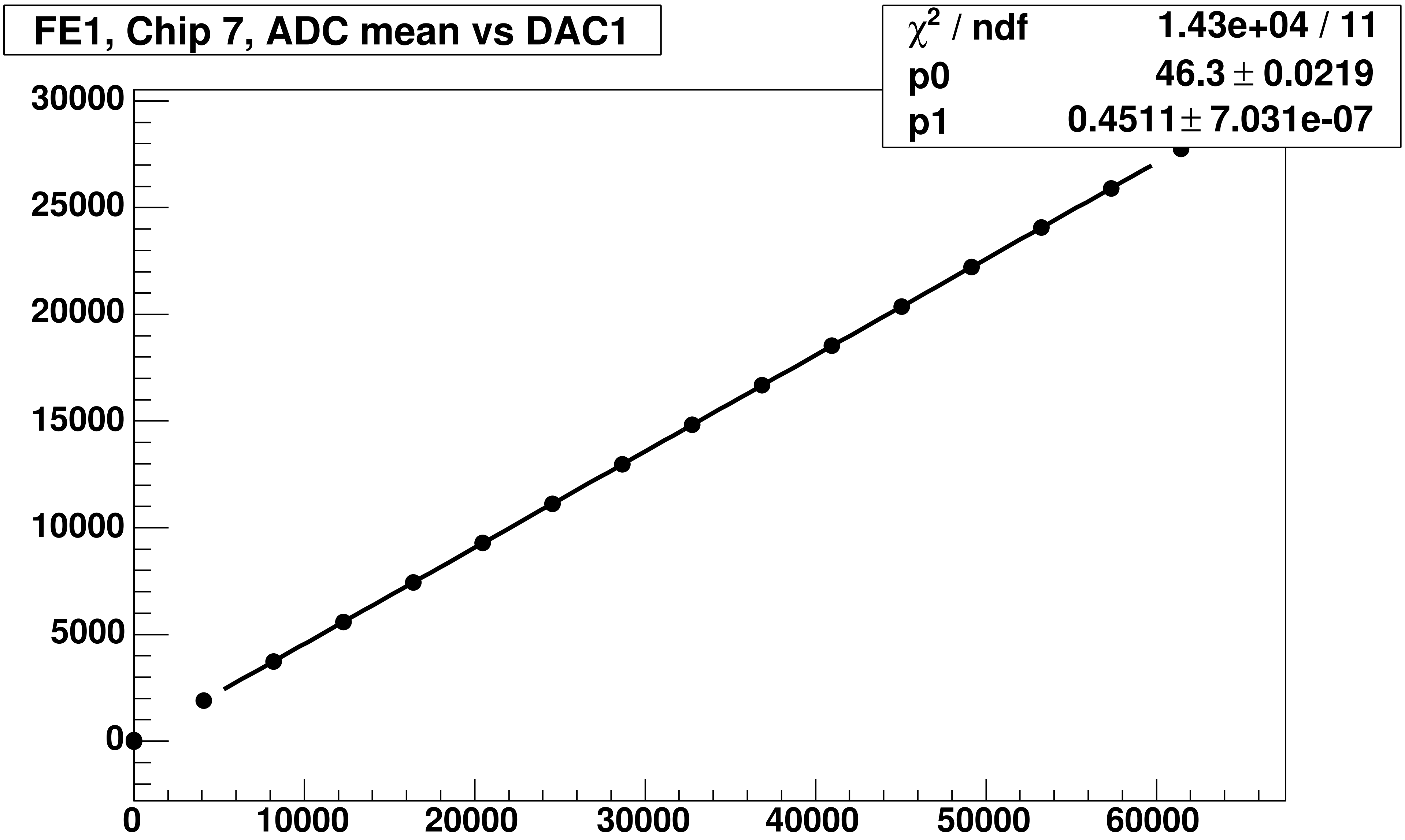

FE1, Chip 6, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000



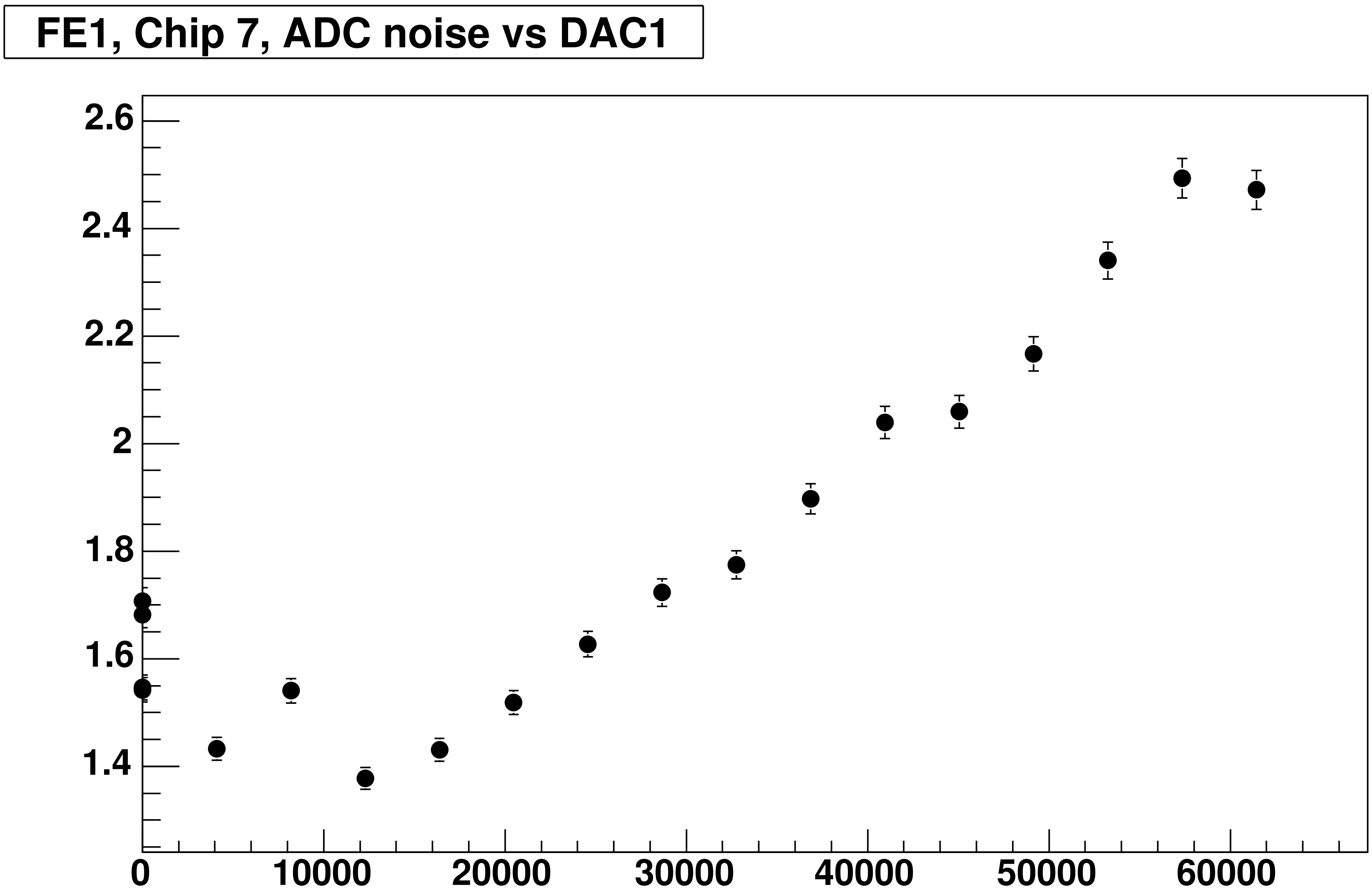
FE1, Chip 7, ADC mean vs DAC0
χ^2 / ndf 122 / 11
p0 44.04 ± 0.02066
p1 -5.304e-06 ± 5.704e-07
40
30
20
10
0
-10
0
10000
20000
30000
40000
50000
60000


FE1, Chip 7, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

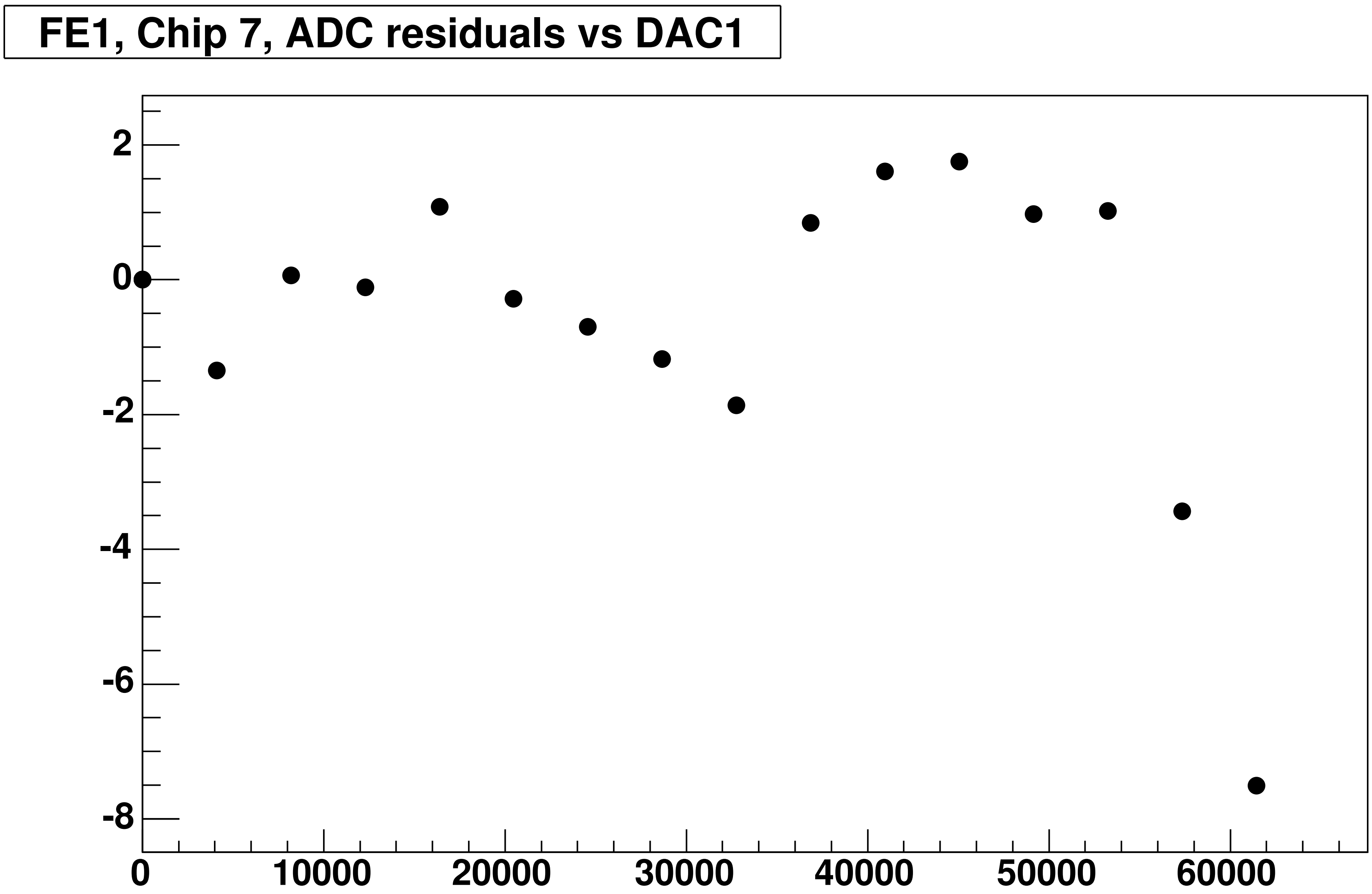

FE1, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

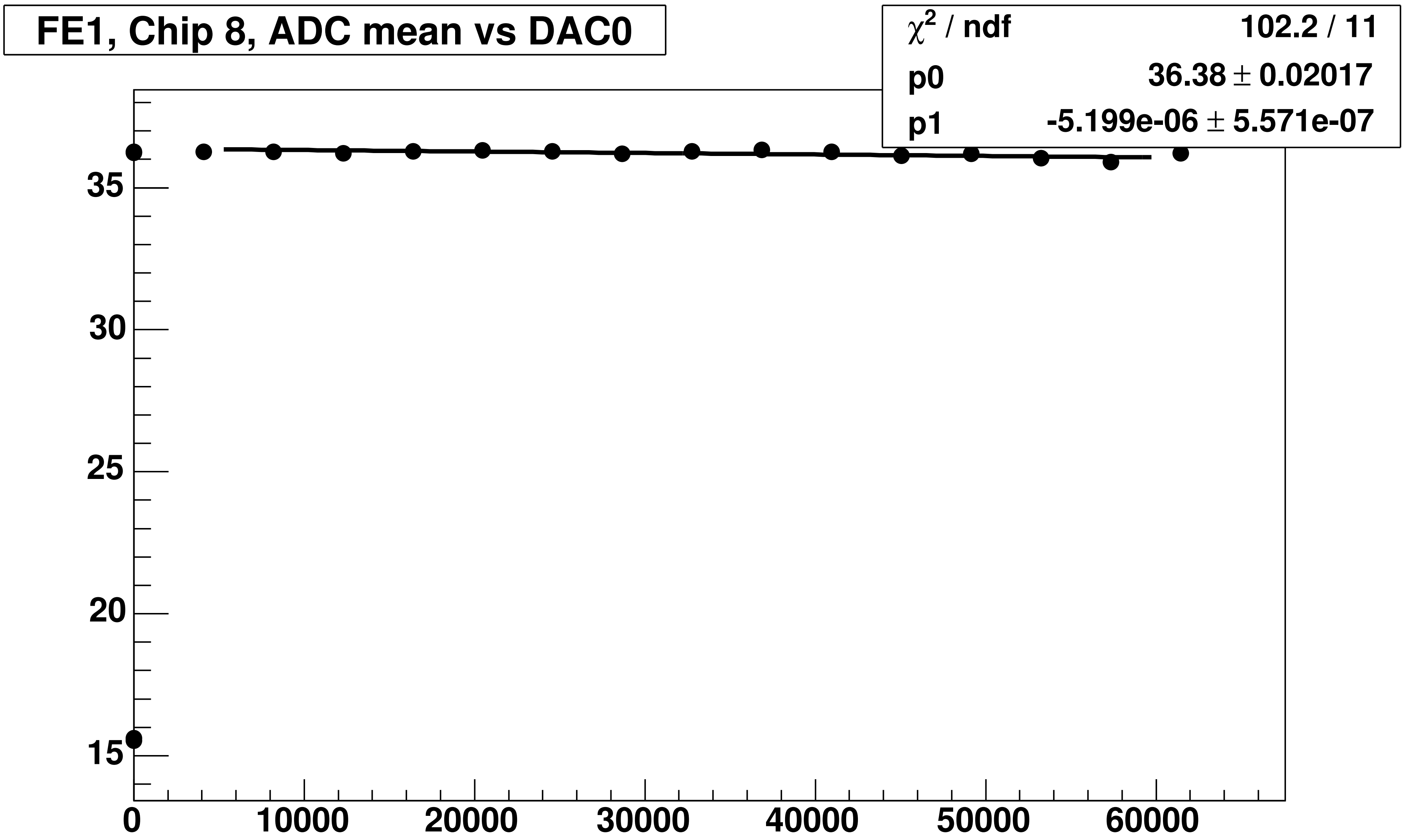


FE1, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1.43e+04 / 11
p0 46.3 ± 0.0219
p1 0.4511 ± 7.031e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

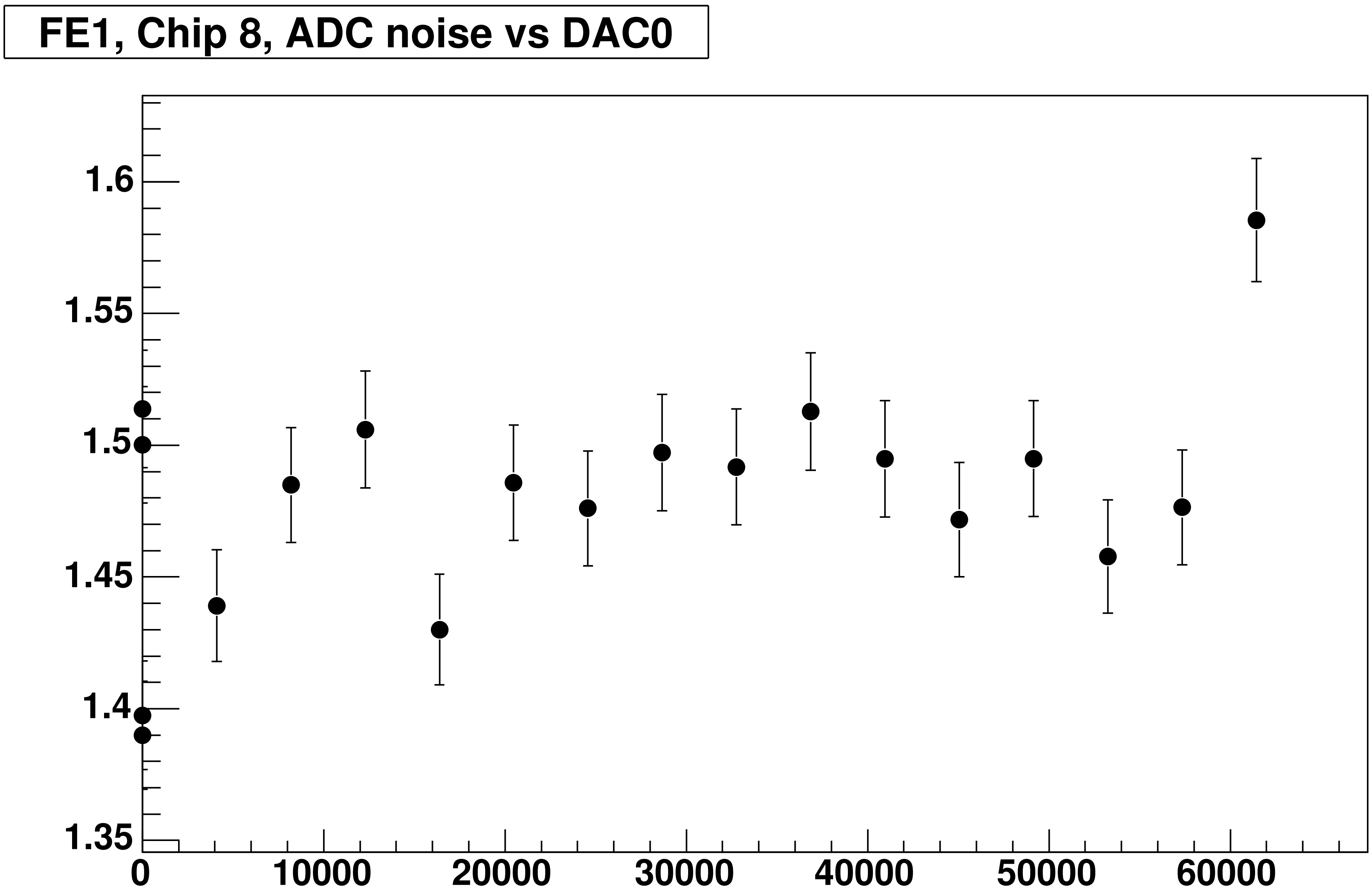


FE1, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

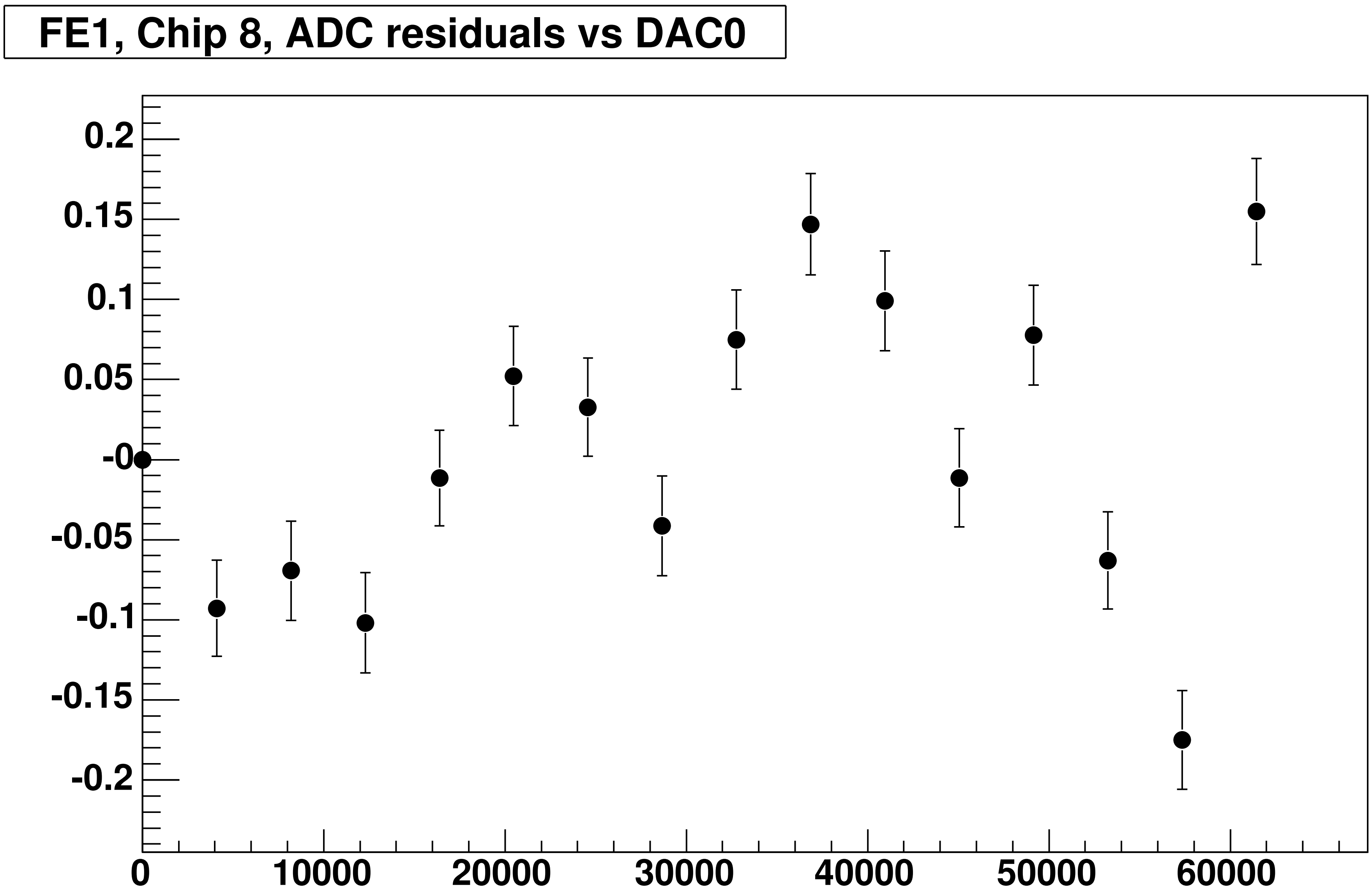

FE1, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

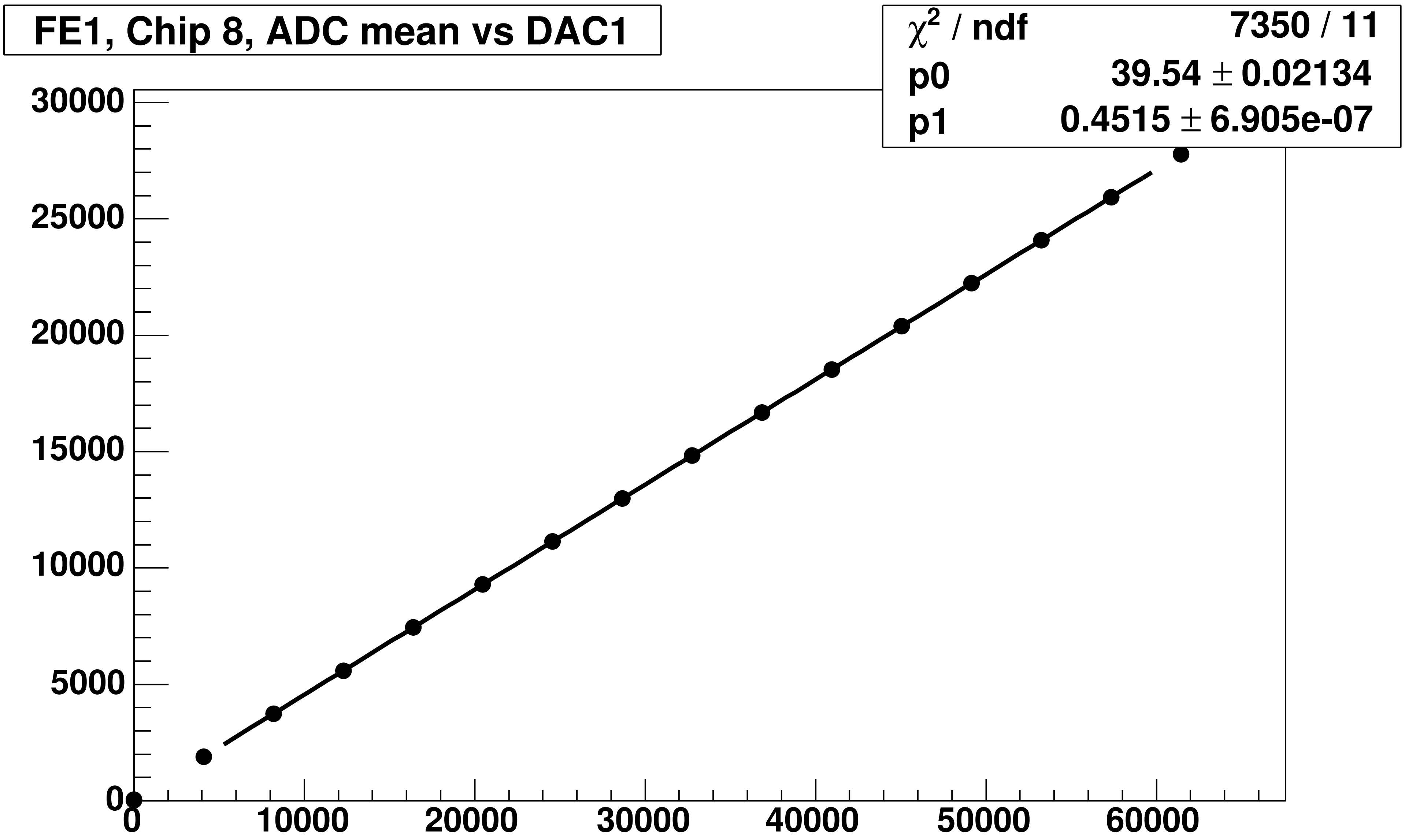


FE1, Chip 8, ADC mean vs DAC0
χ^2 / ndf 102.2 / 11
p0 36.38 ± 0.02017
p1 -5.199e-06 ± 5.571e-07
35
30
25
20
15
0
10000
20000
30000
40000
50000
60000

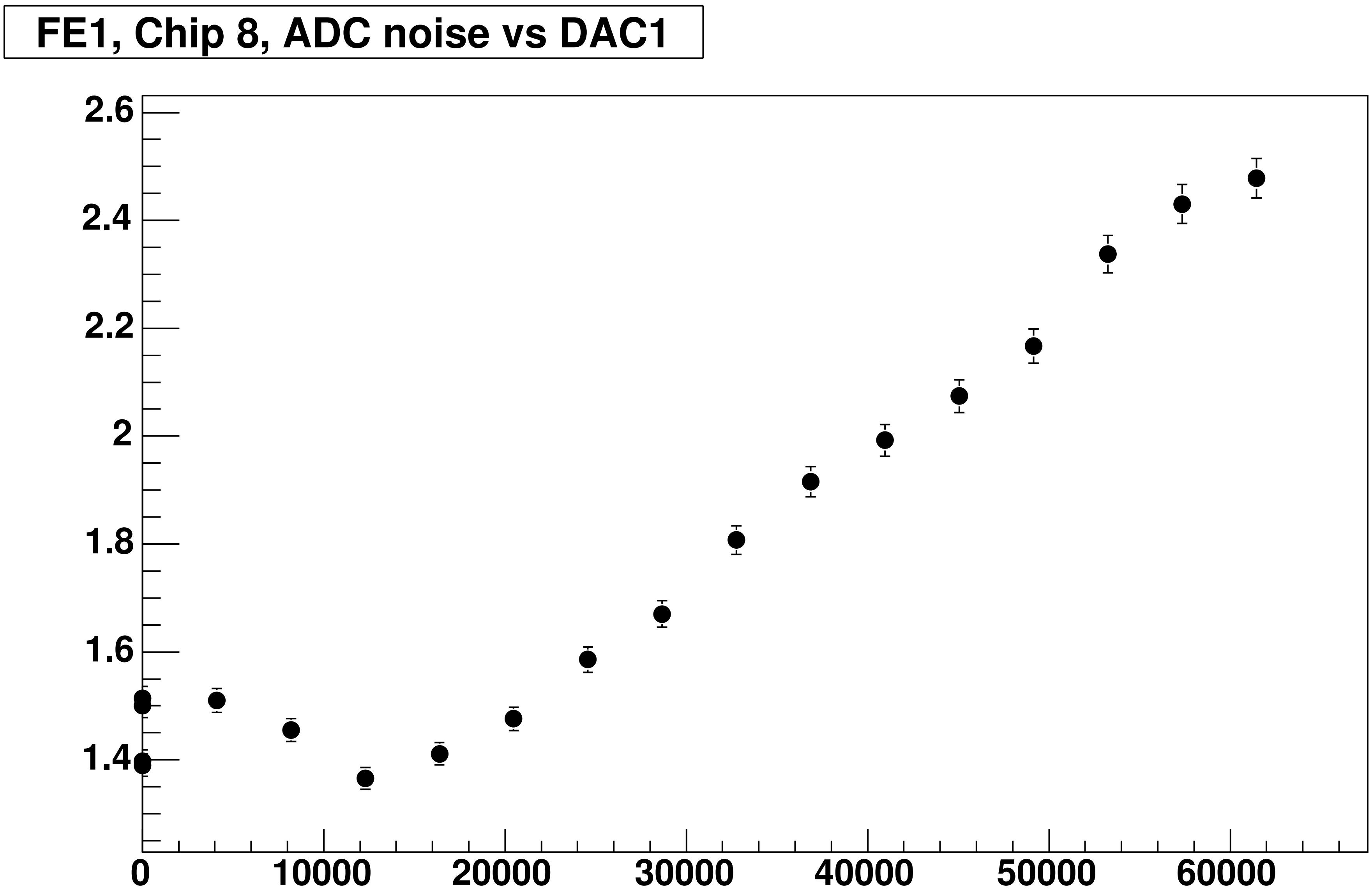


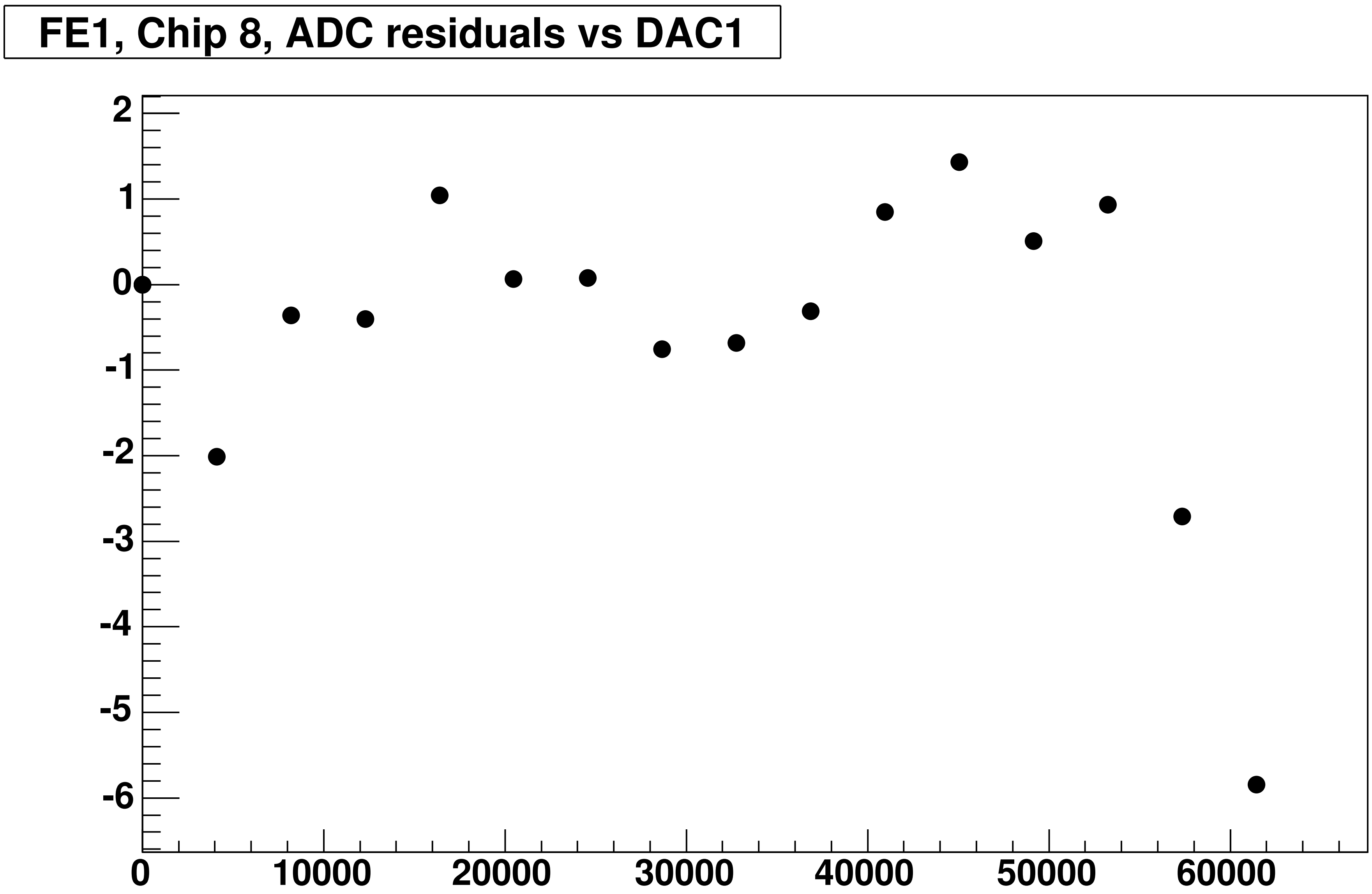
FE1, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

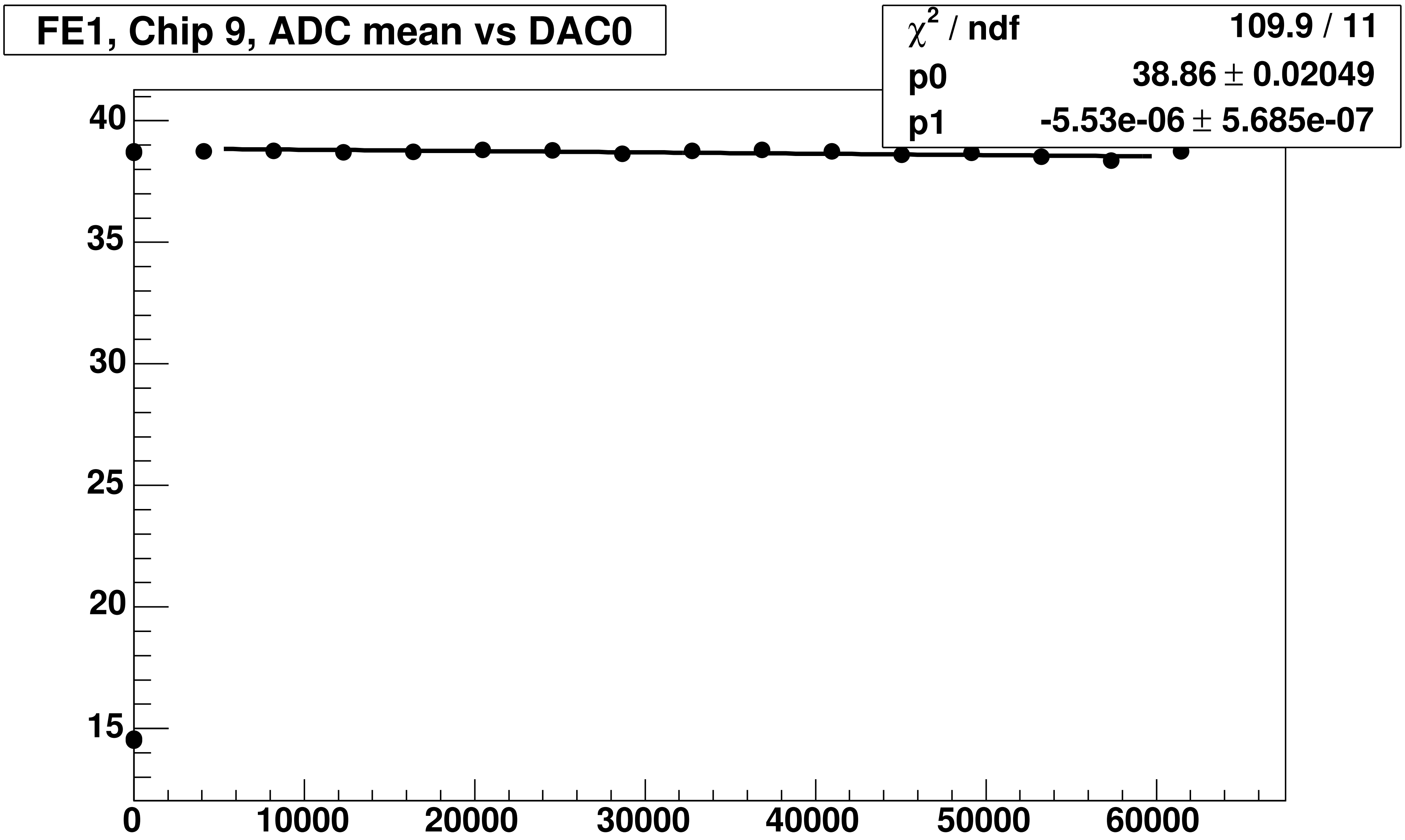

FE1, Chip 8, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



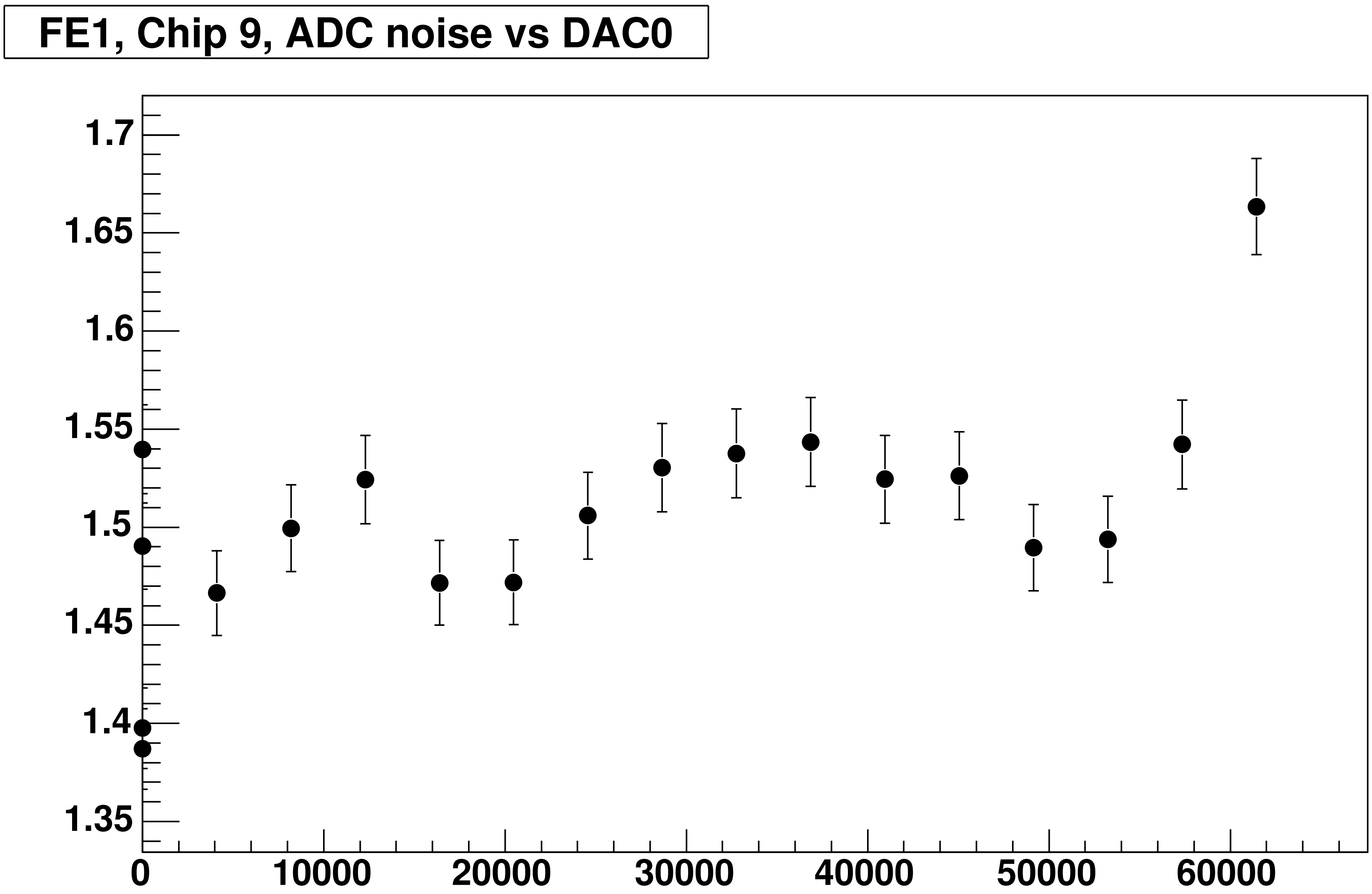
FE1, Chip 8, ADC mean vs DAC1
χ^2 / ndf 7350 / 11
p0 39.54 ± 0.02134
p1 0.4515 ± 6.905e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

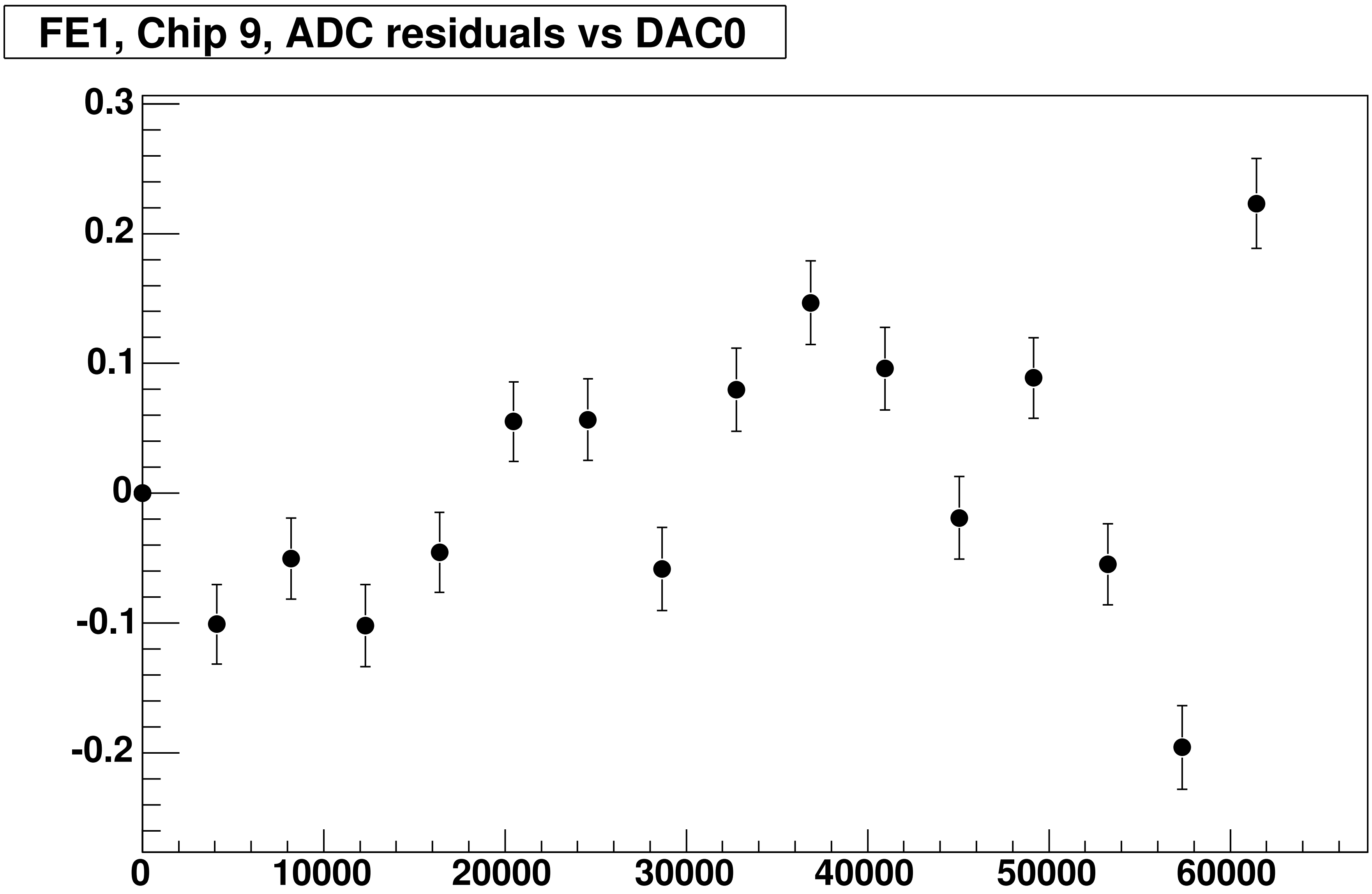

FE1, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

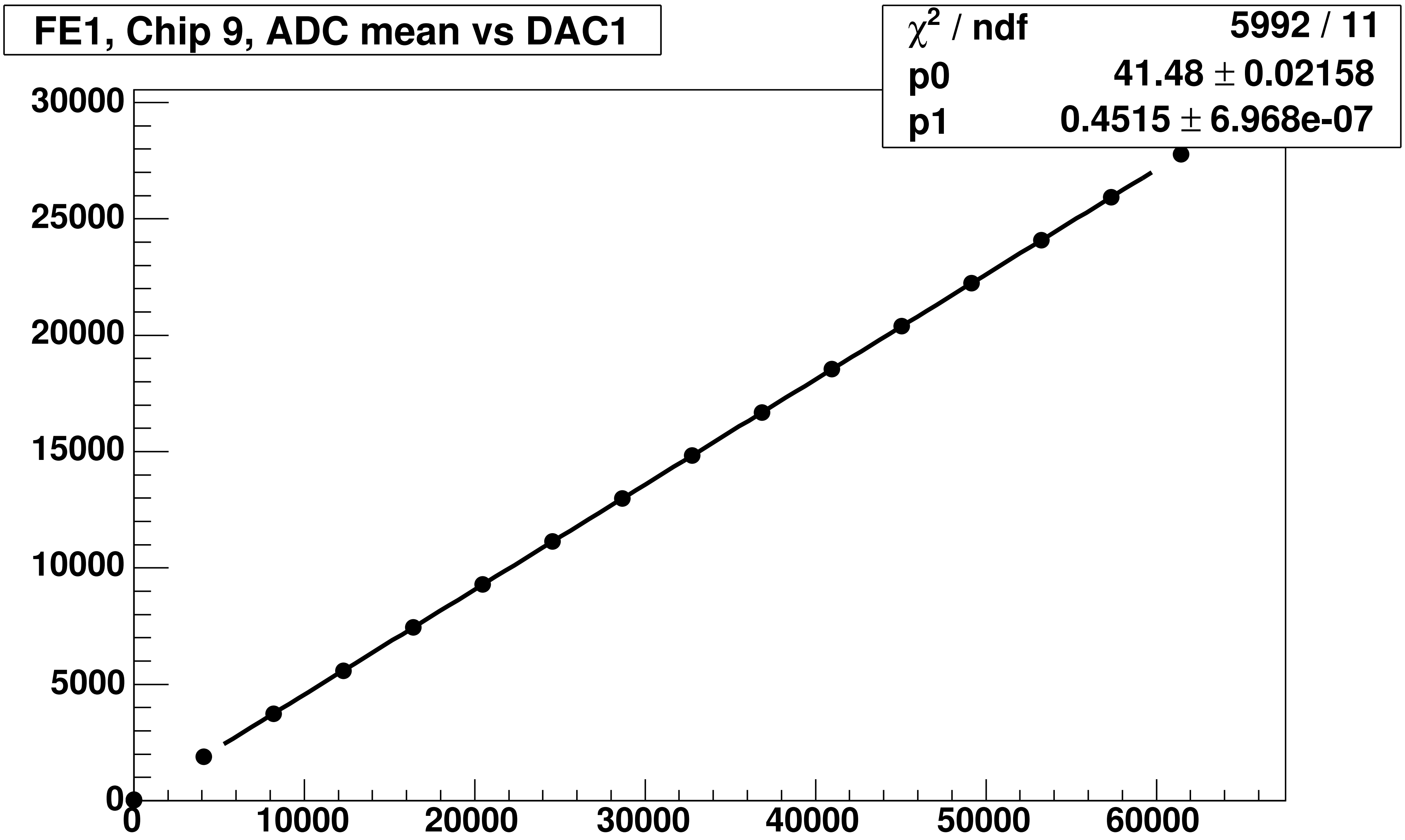

FE1, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



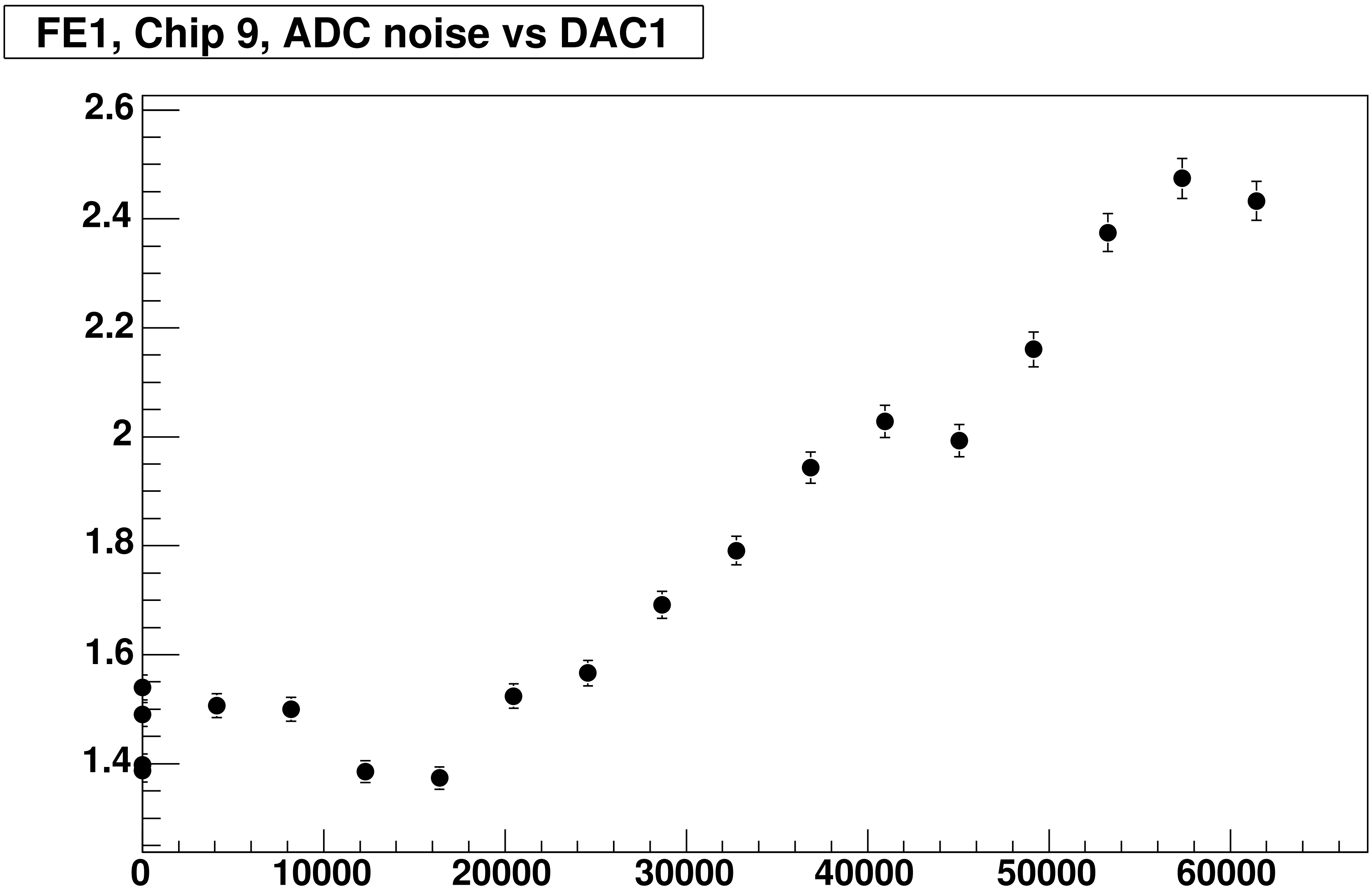
FE1, Chip 9, ADC mean vs DAC0
χ^2 / ndf 109.9 / 11
p0 38.86 ± 0.02049
p1 -5.53e-06 ± 5.685e-07
40
35
30
25
20
15
0
10000
20000
30000
40000
50000
60000


FE1, Chip 9, 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

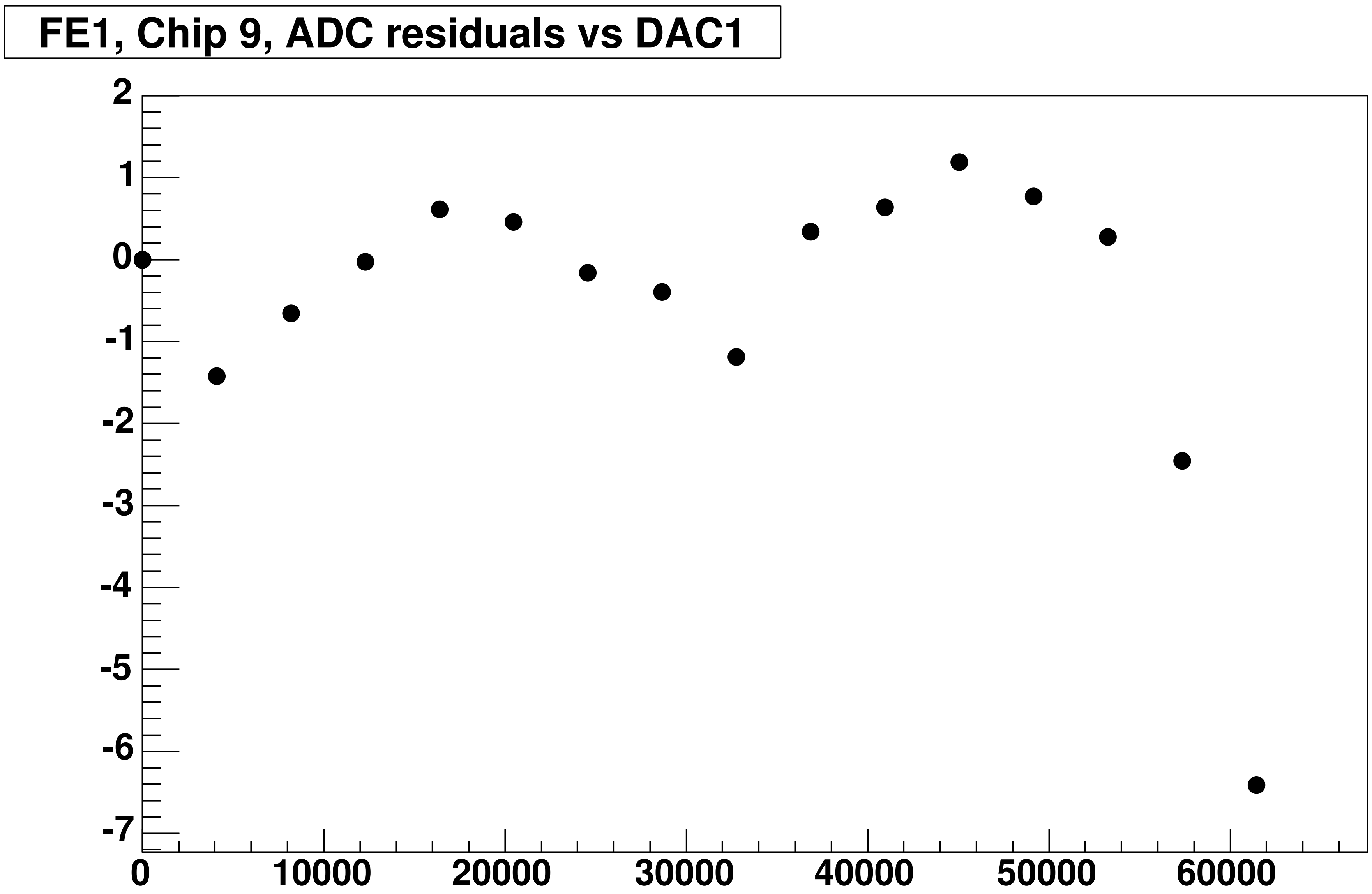

FE1, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

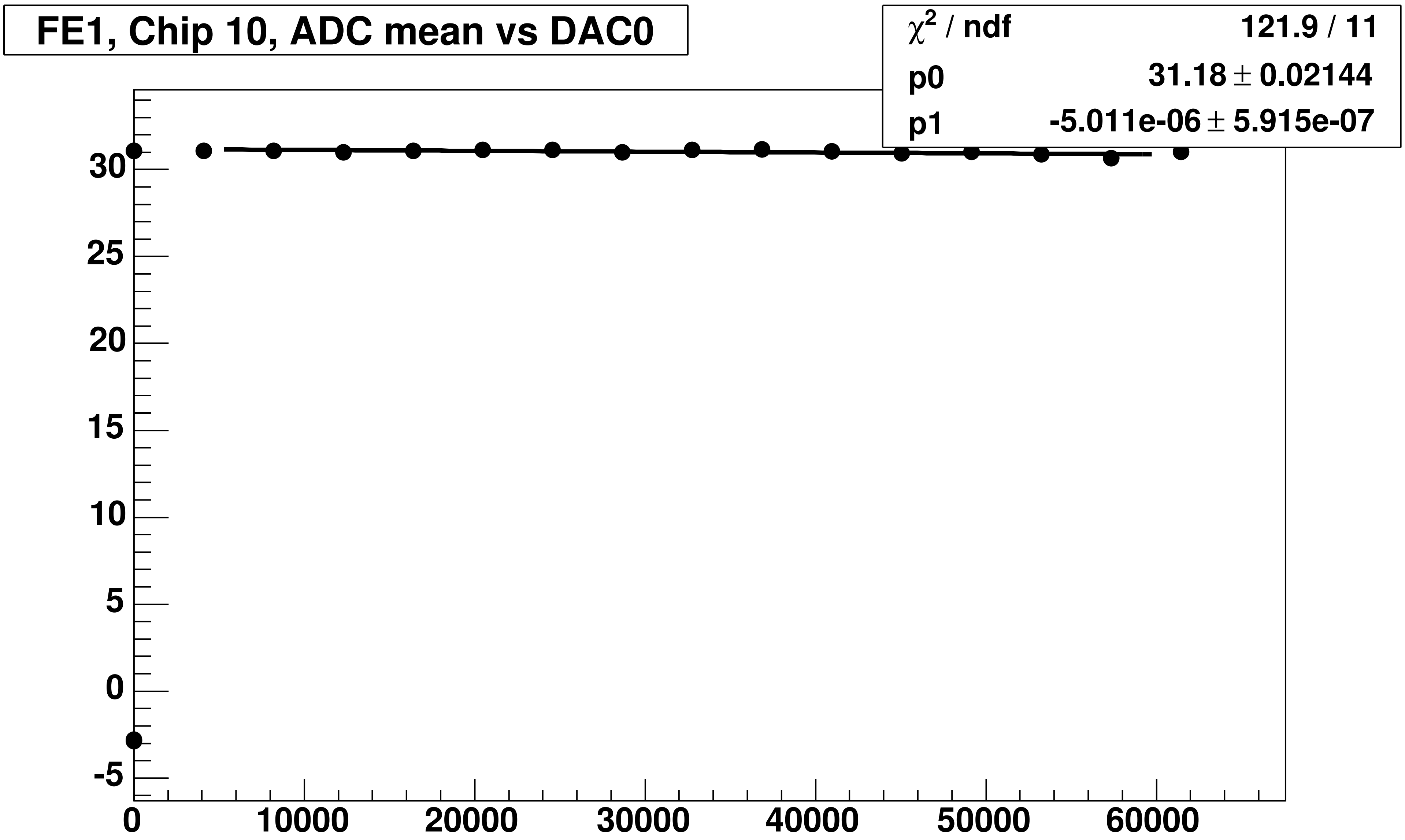


FE1, Chip 9, ADC mean vs DAC1
χ^2 / ndf 5992 / 11
p0 41.48 ± 0.02158
p1 0.4515 ± 6.968e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

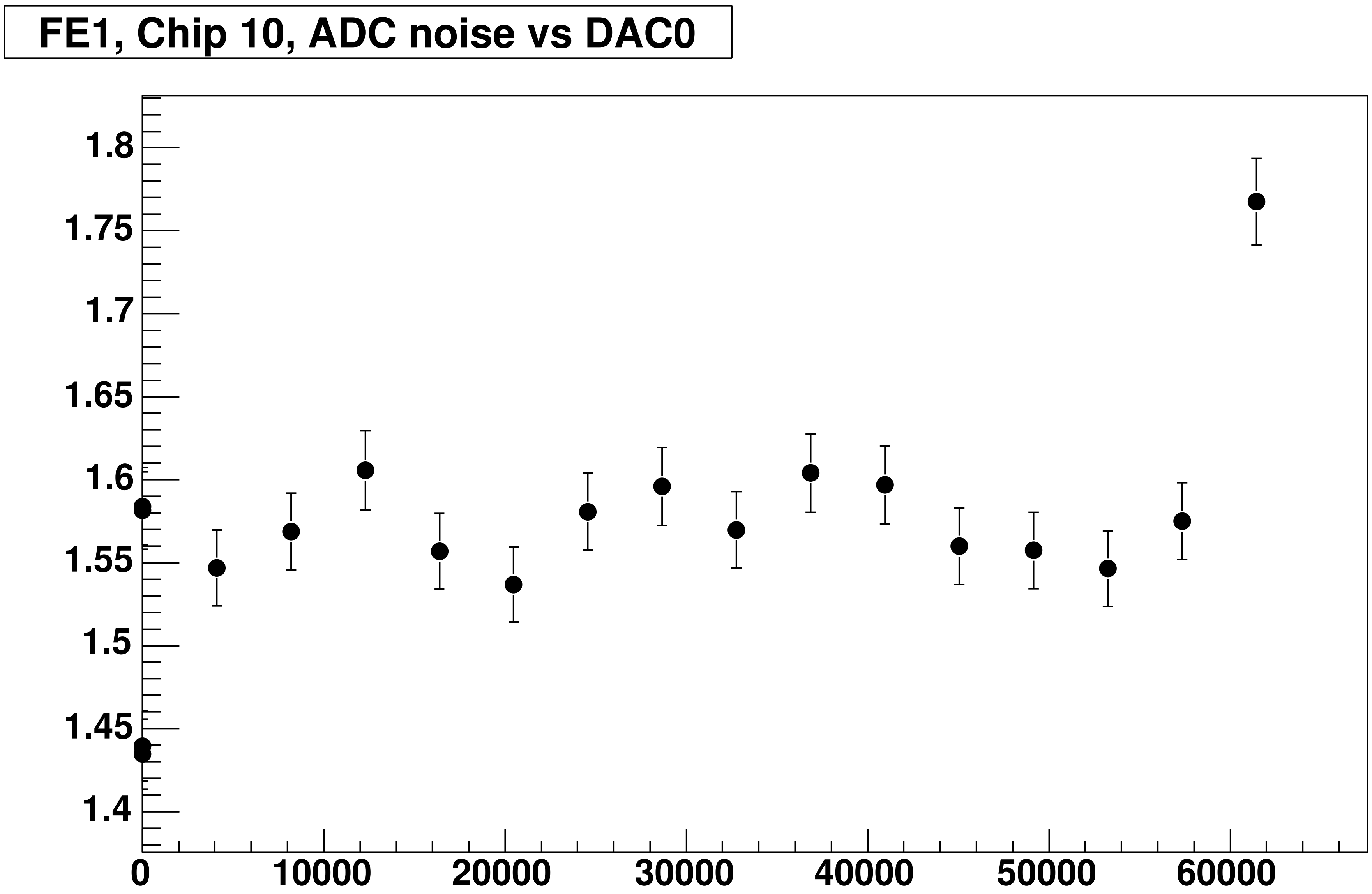


FE1, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

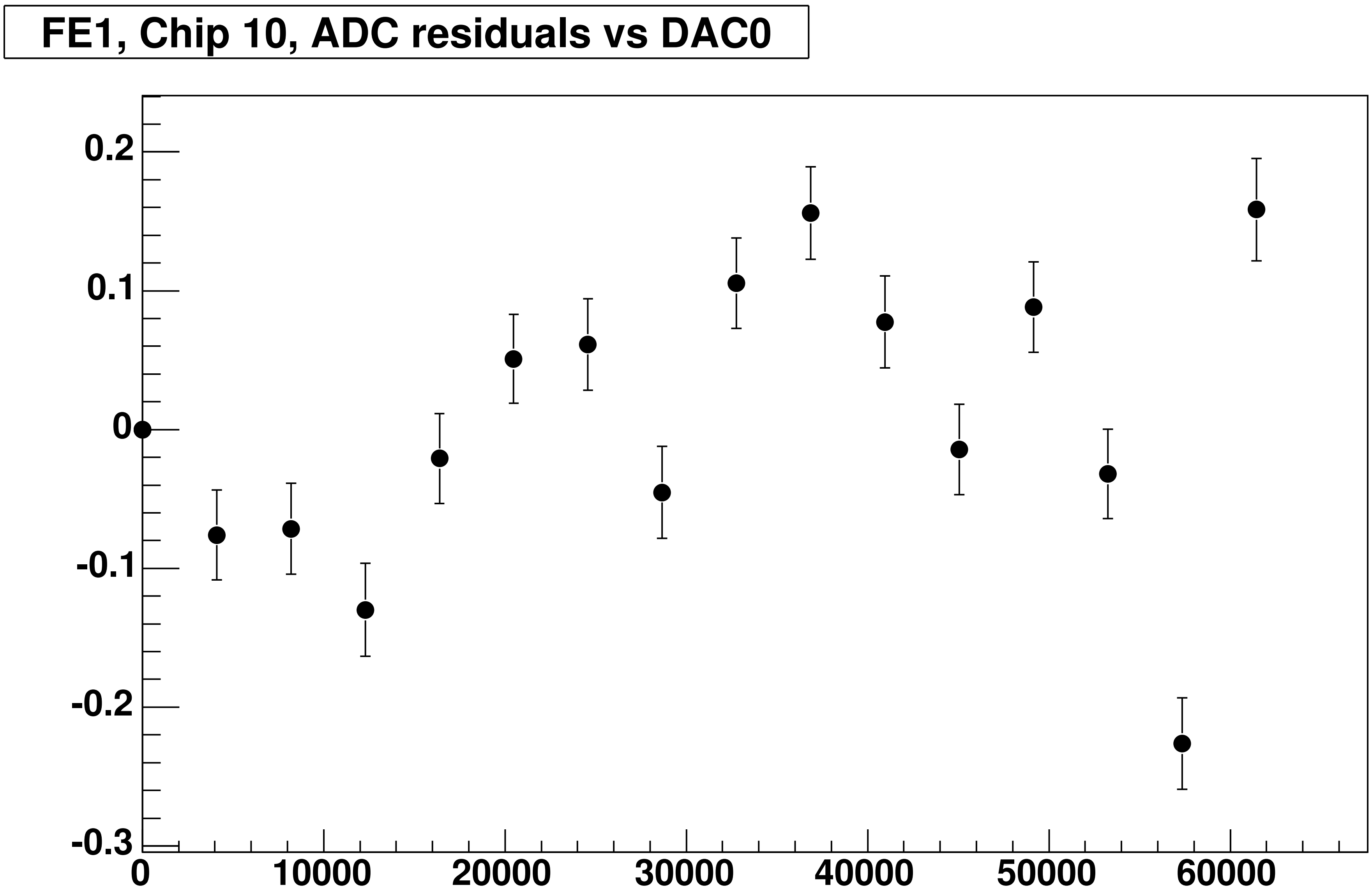

FE1, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

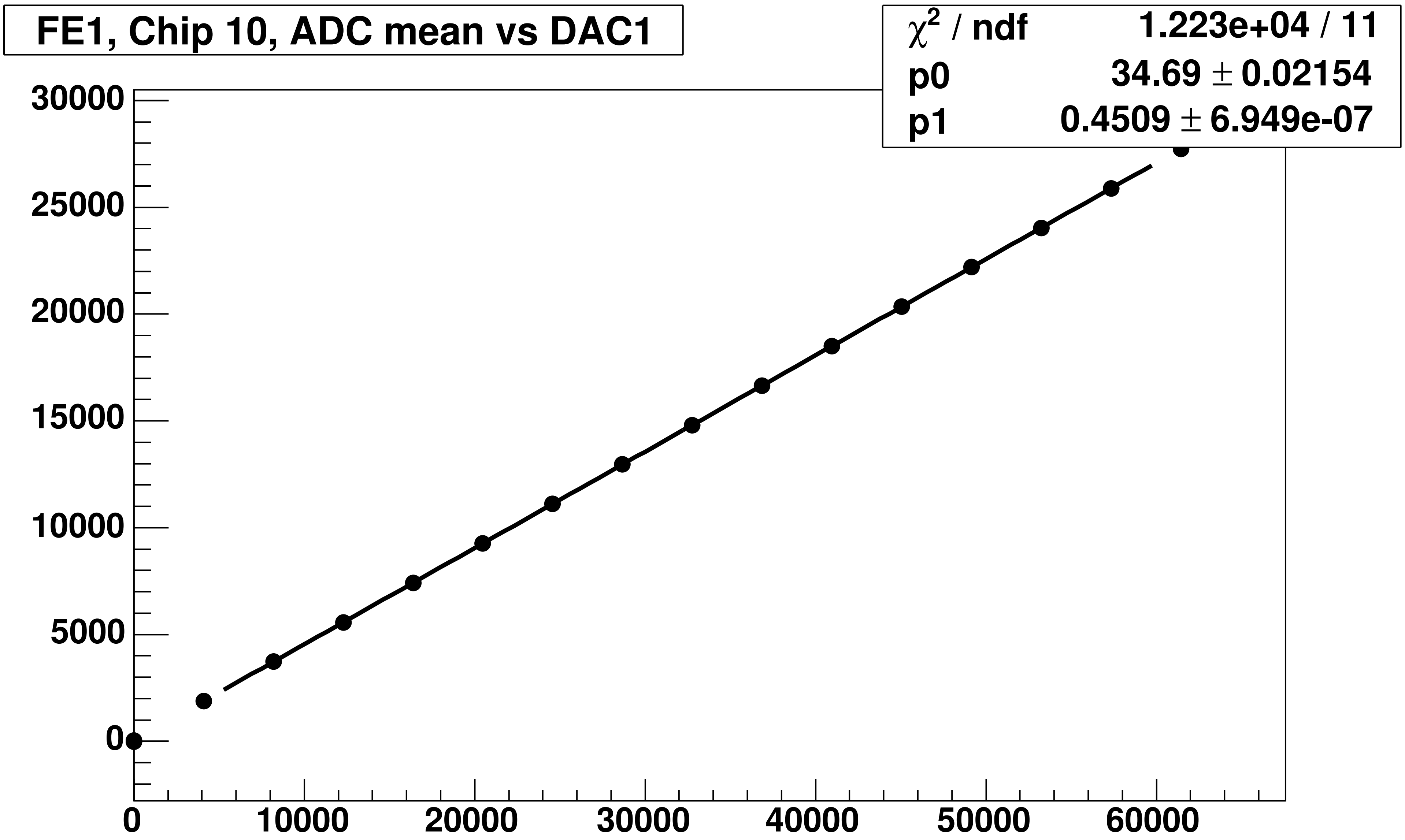


FE1, Chip 10, ADC mean vs DAC0
χ^2 / ndf 121.9 / 11
p0 31.18 ± 0.02144
p1 -5.011e-06 ± 5.915e-07
30
25
20
15
10
5
0
-5
0
10000
20000
30000
40000
50000
60000

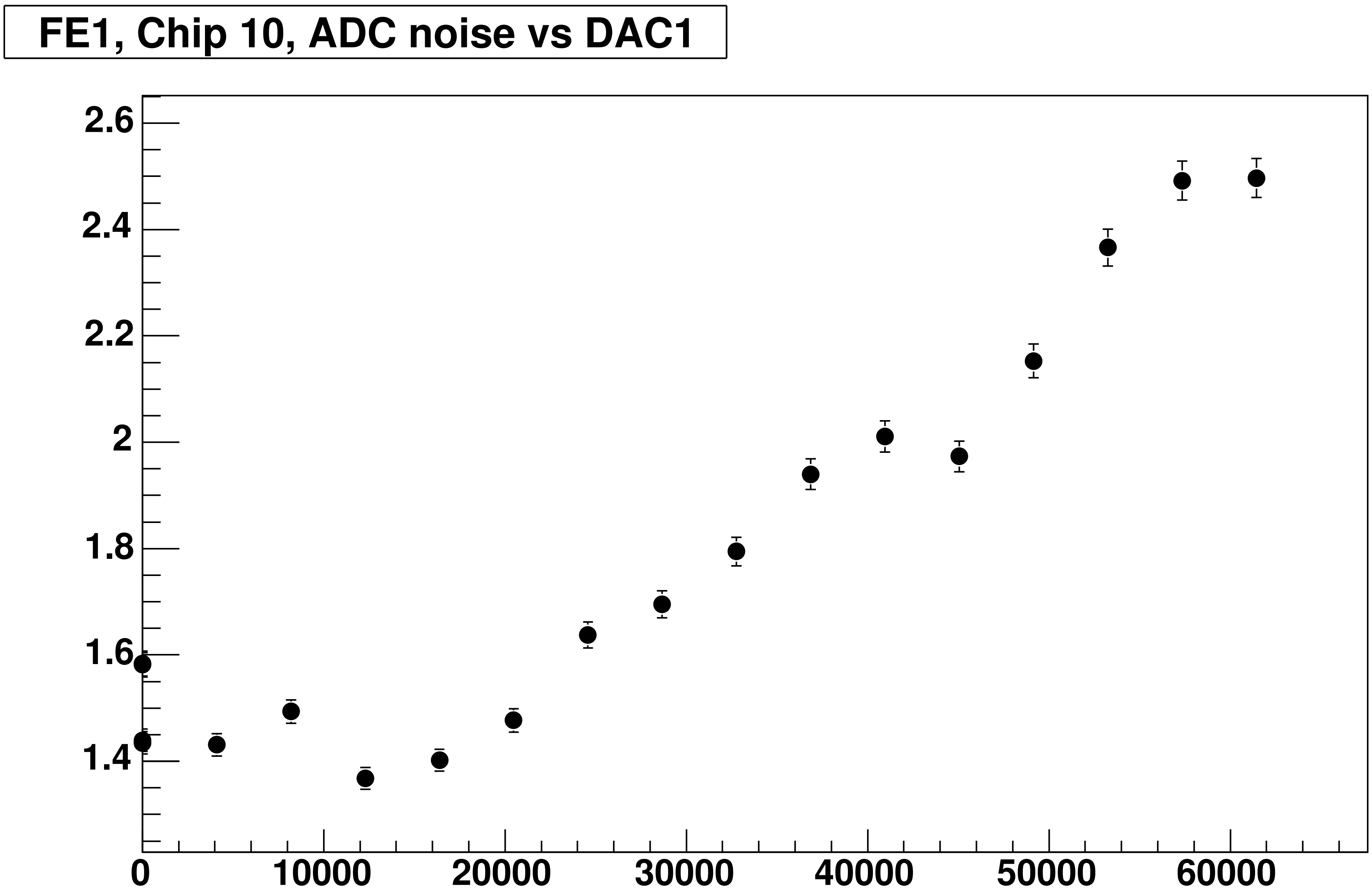


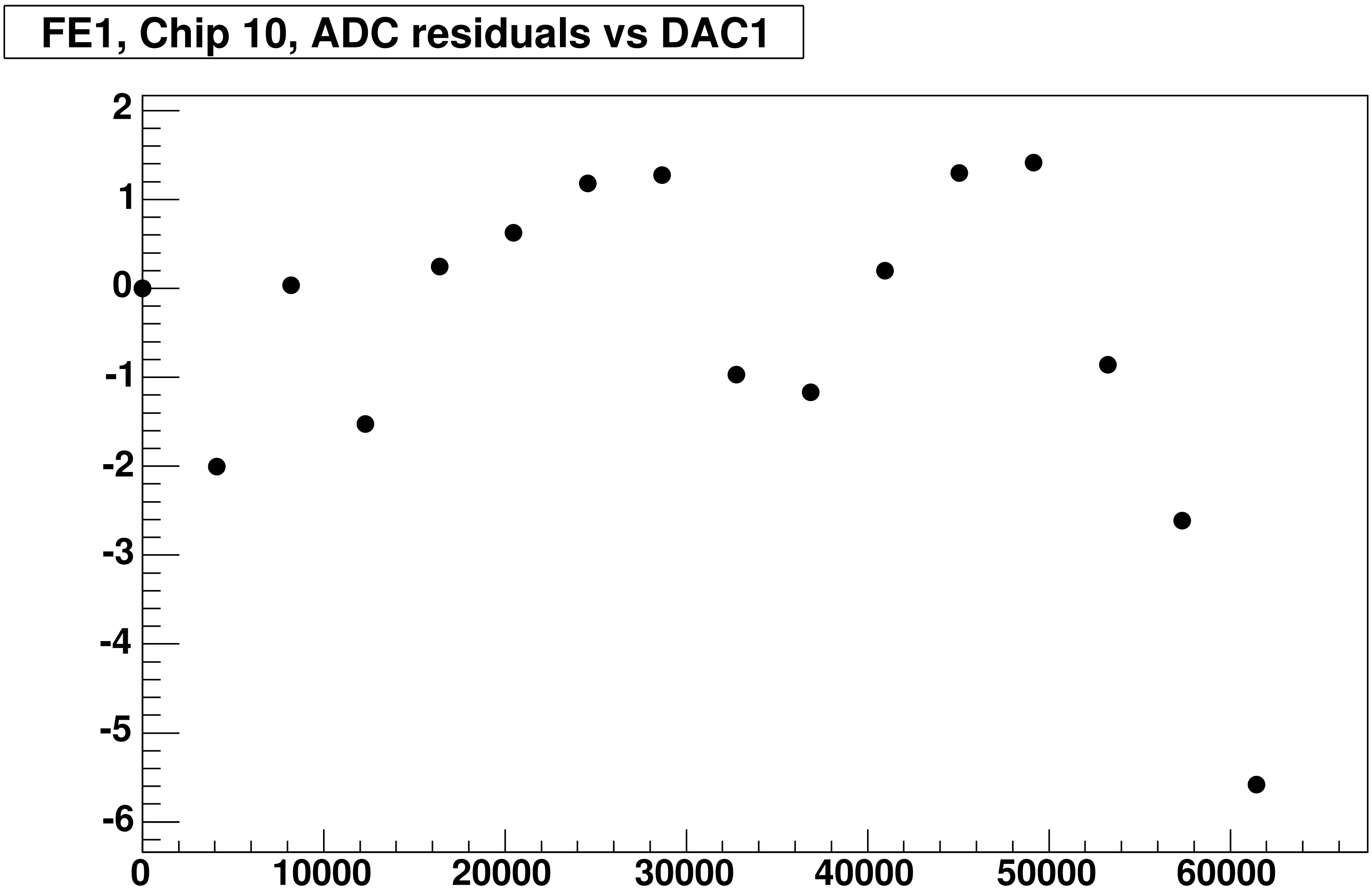
FE1, Chip 10, ADC noise vs DAC0
1.8
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

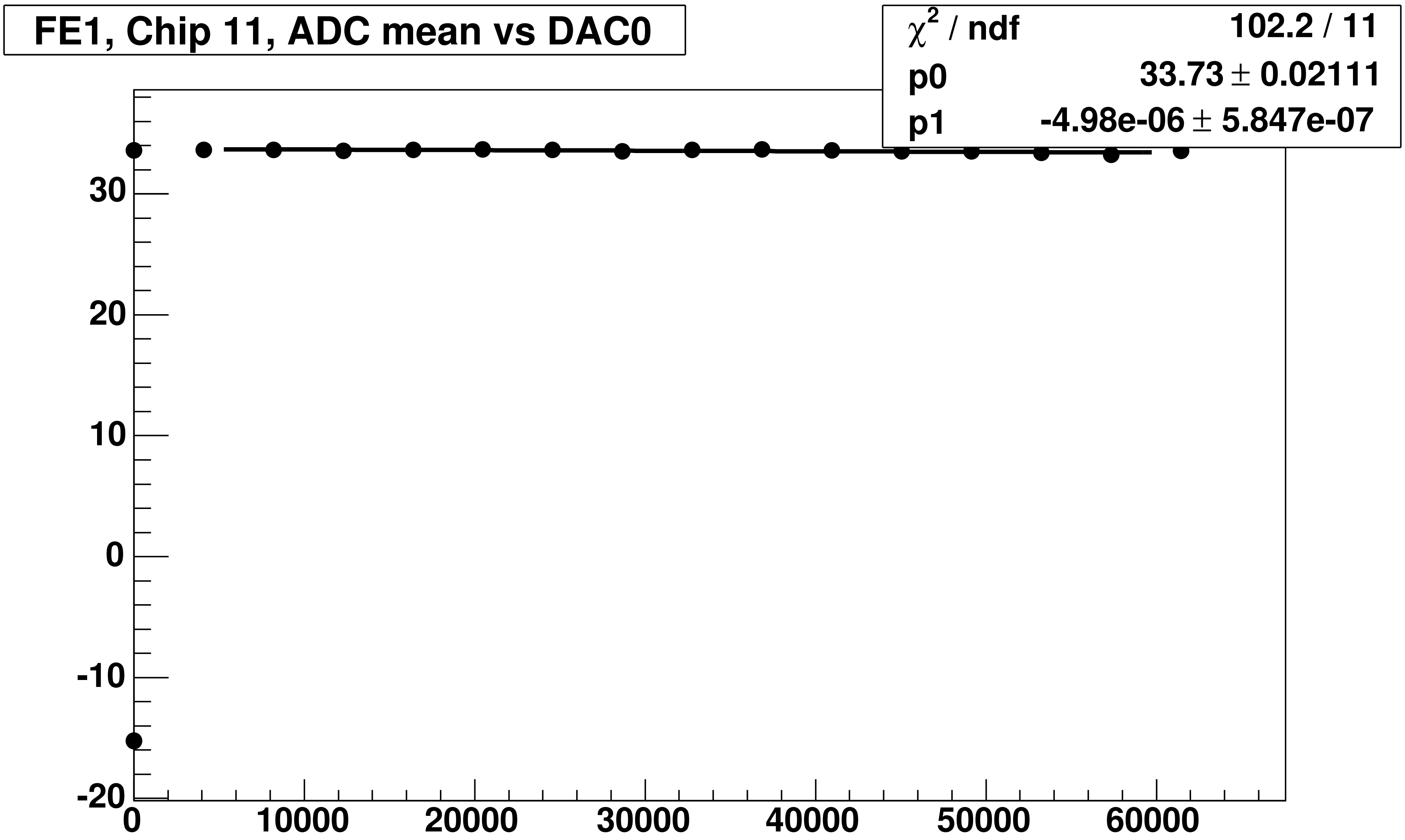

FE1, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



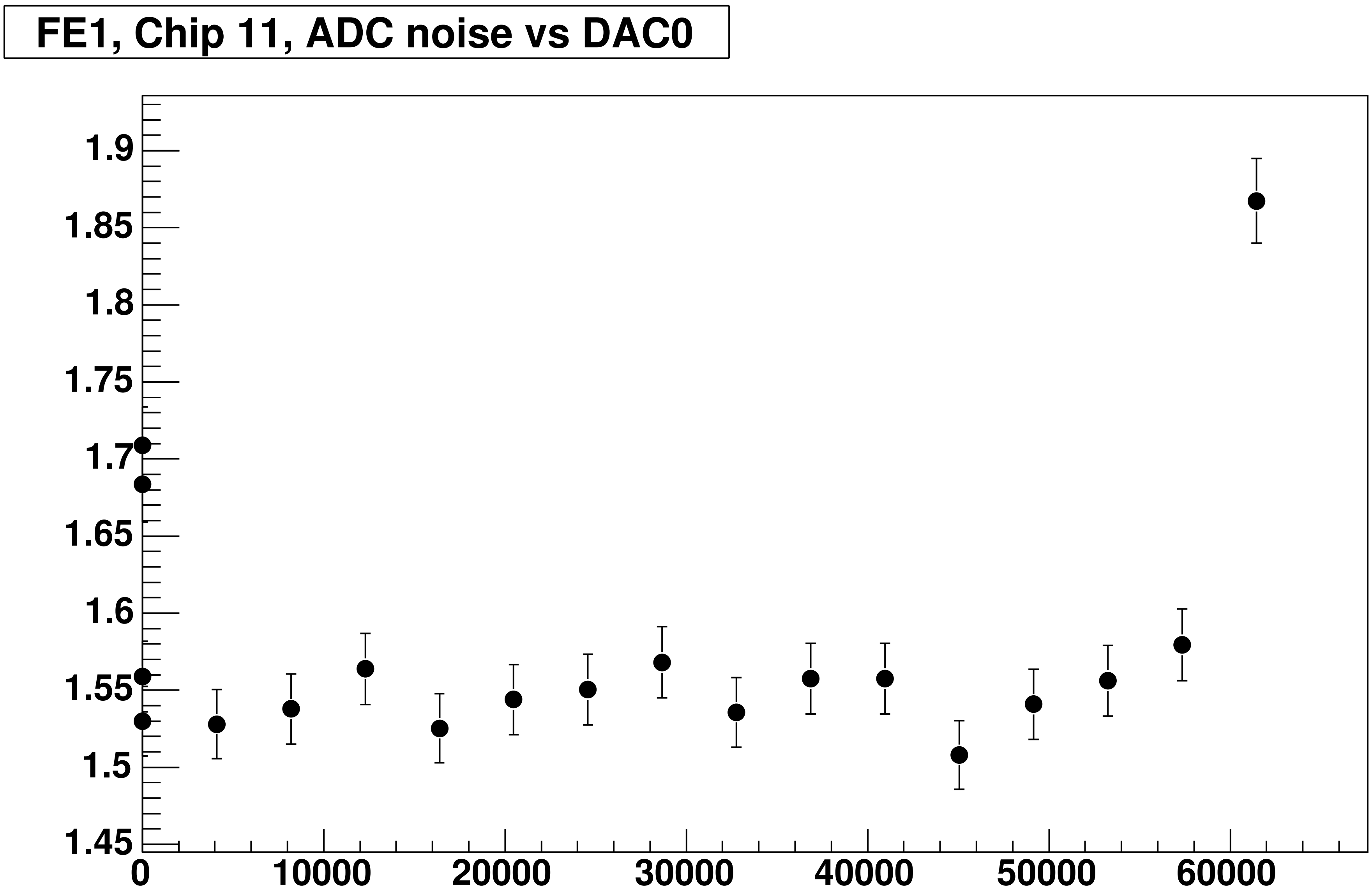
FE1, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1.223e+04 / 11
p0 34.69 ± 0.02154
p1 0.4509 ± 6.949e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

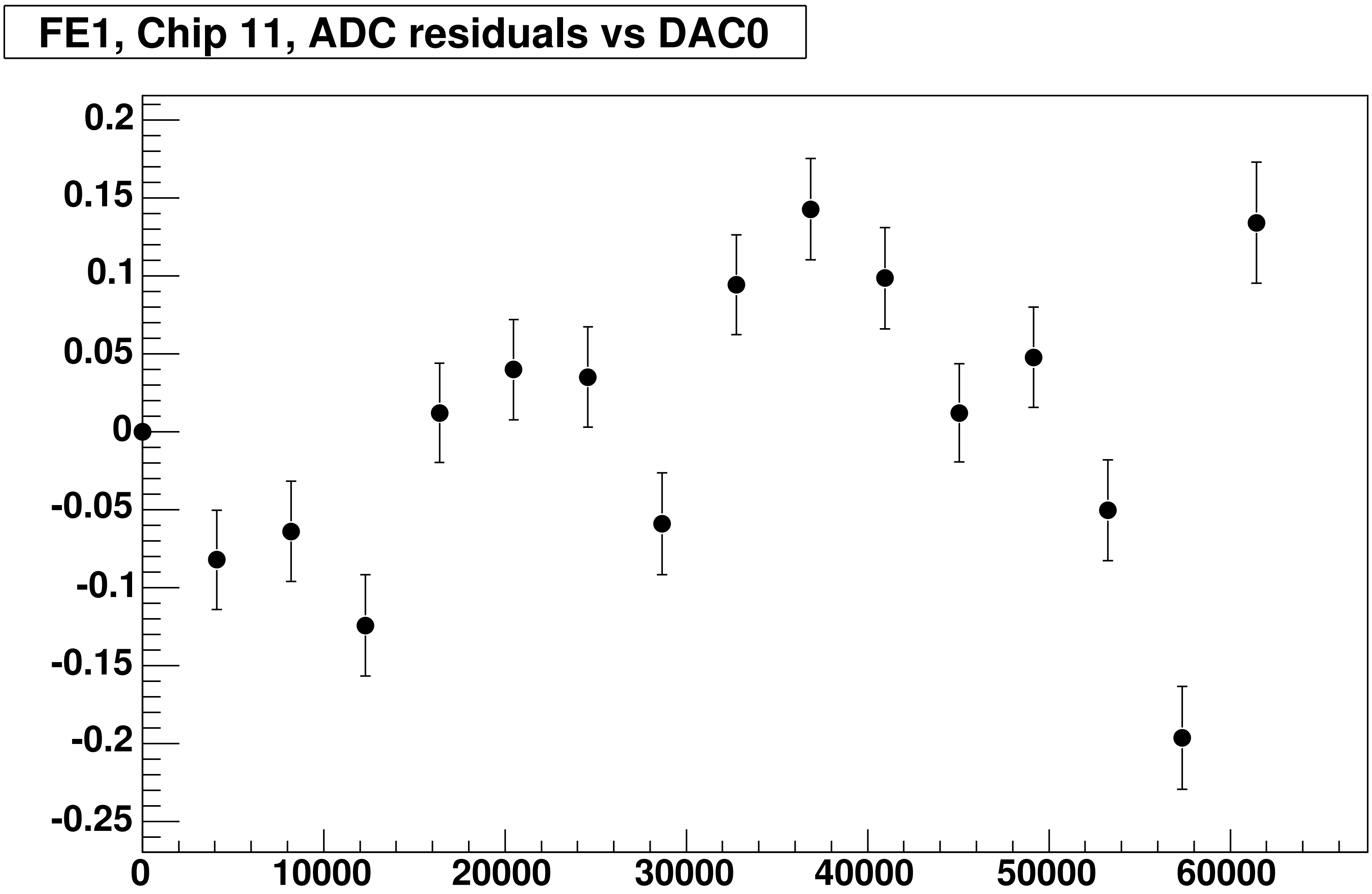

FE1, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

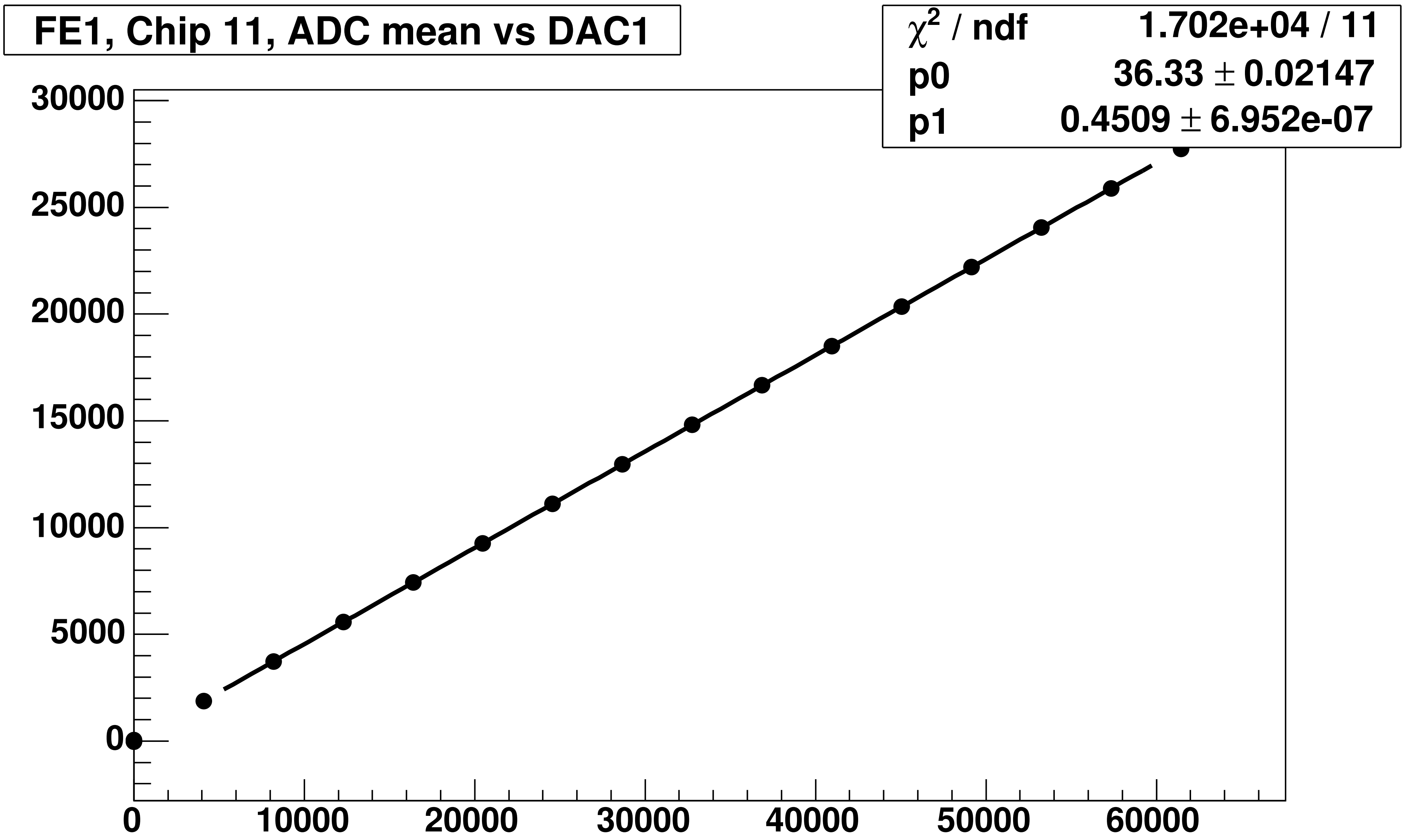


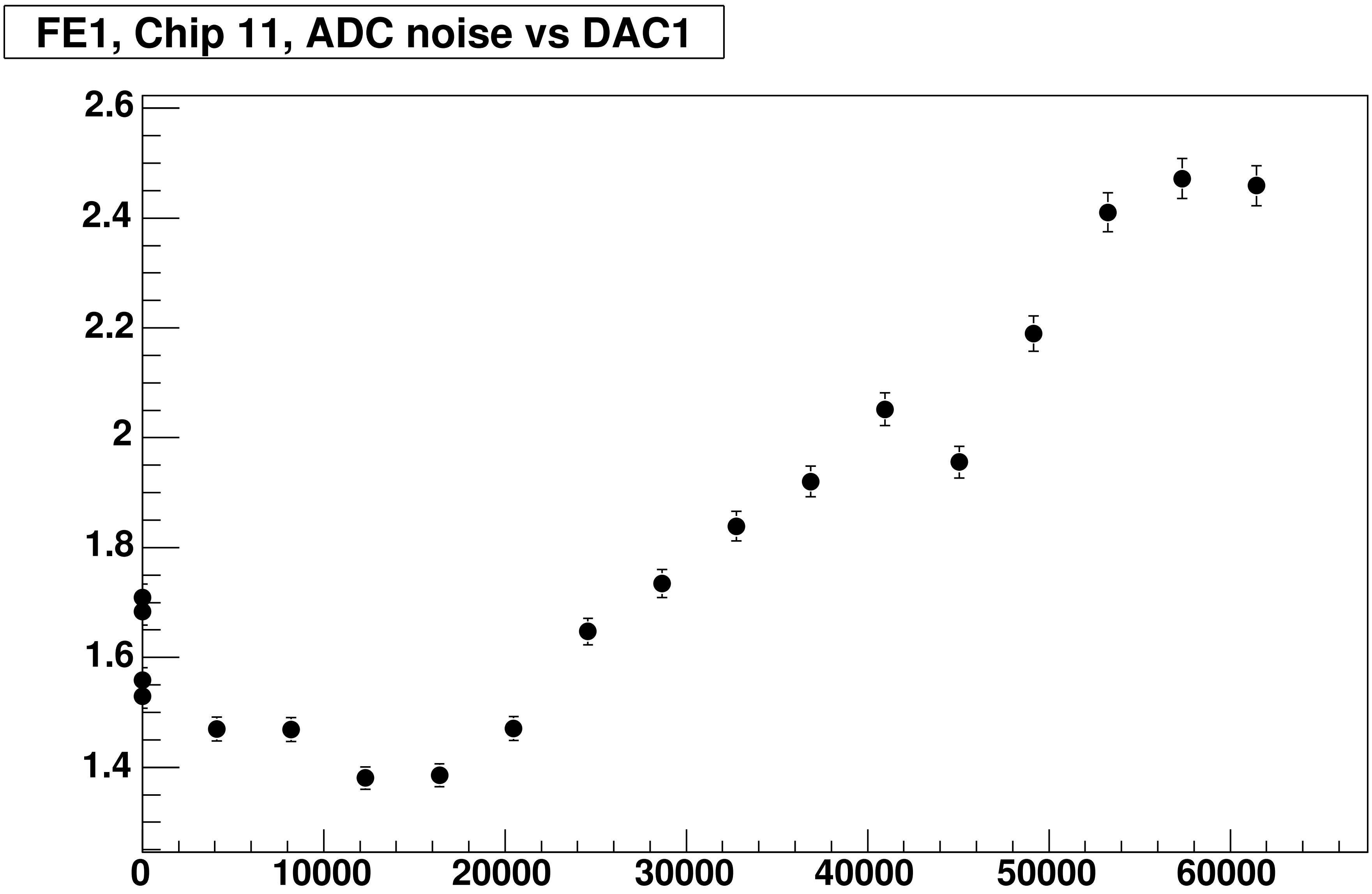
FE1, Chip 11, ADC mean vs DAC0
χ2 / ndf 102.2 / 11
p0 33.73 ± 0.02111
p1 -4.98e-06 ± 5.847e-07
30
20
10
0
-10
-20
0
10000
20000
30000
40000
50000
60000



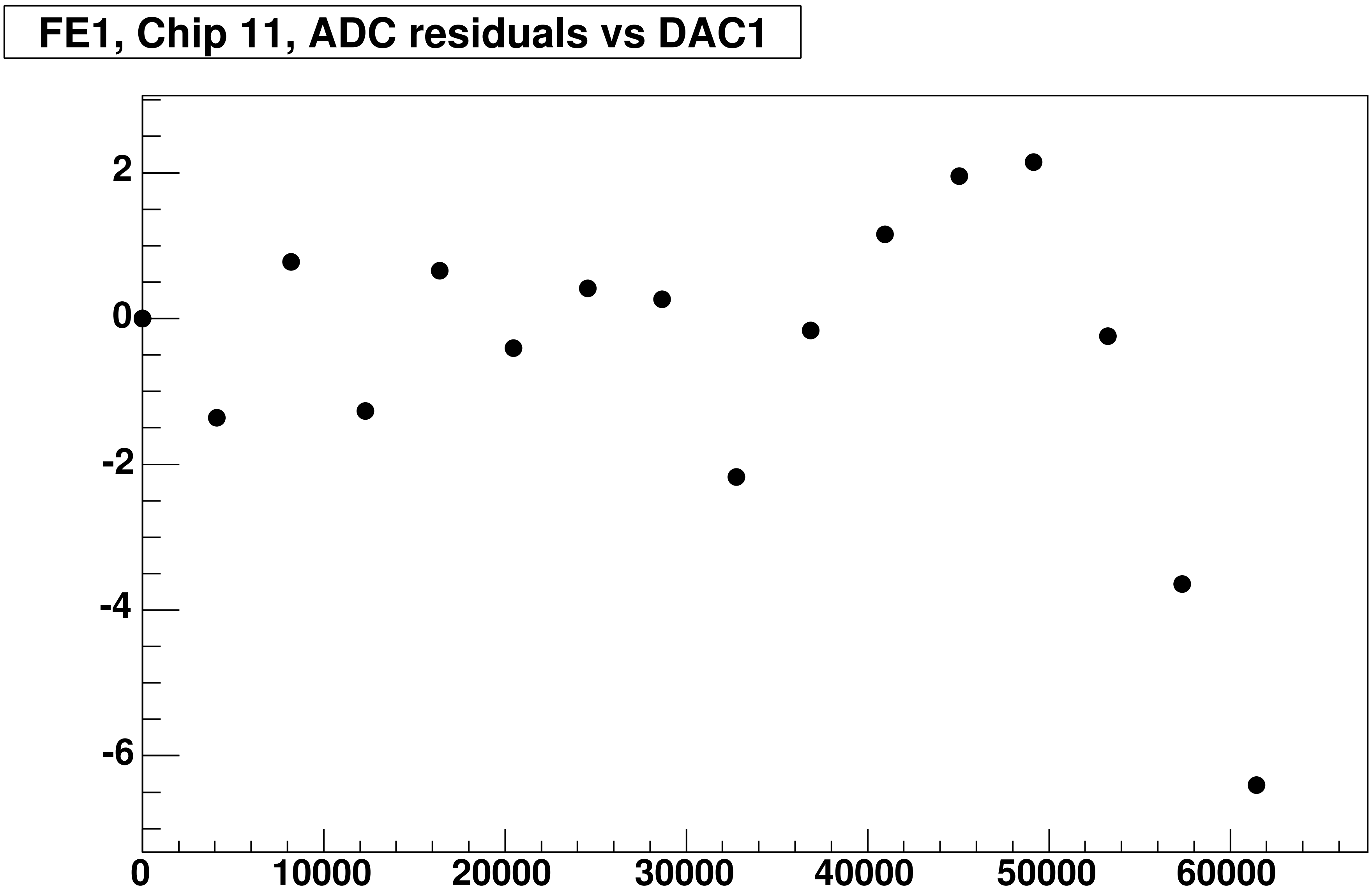
FE1, Chip 11, ADC noise vs DAC0
1.9
1.85
1.8
1.75
1.7
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

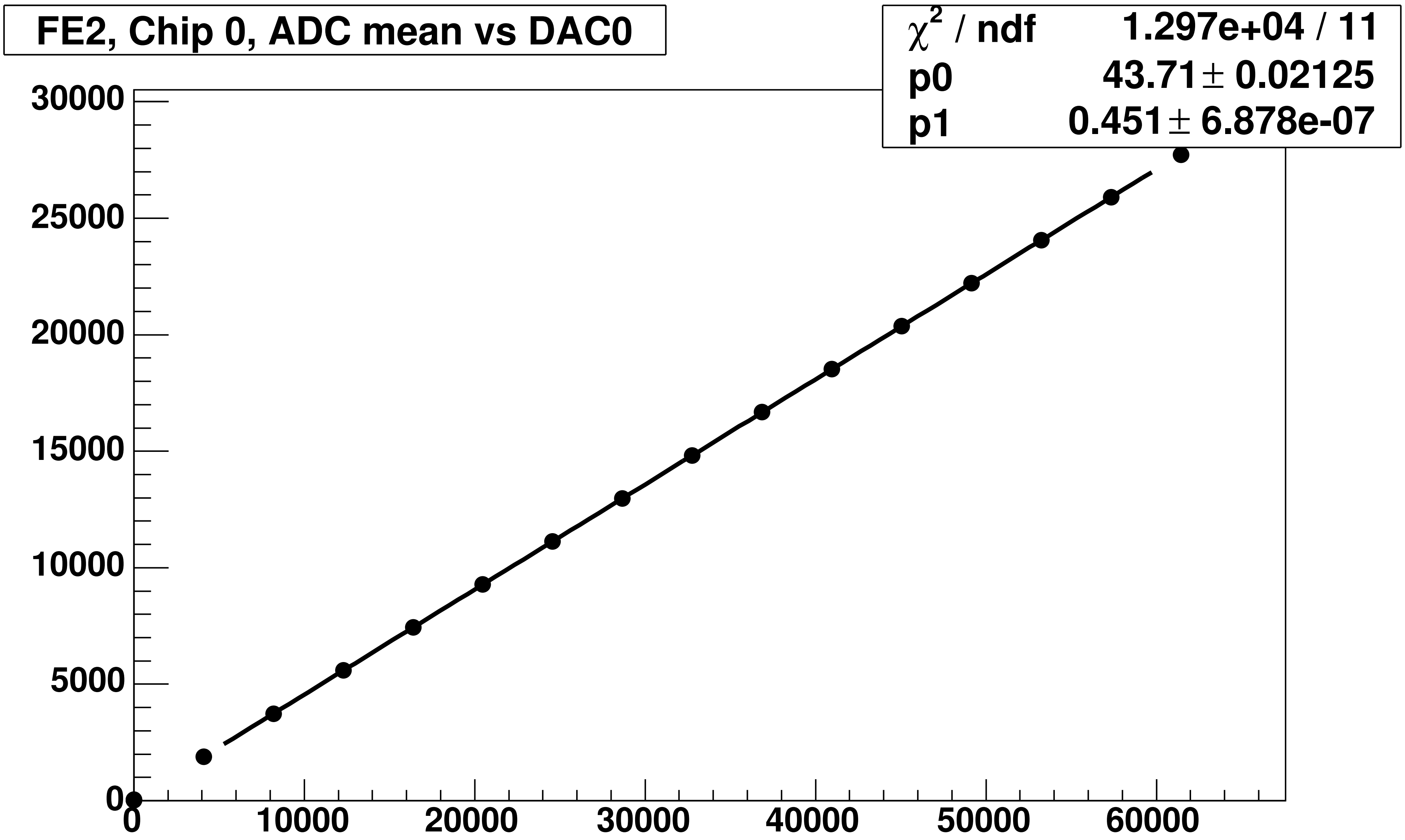

FE1, Chip 11, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

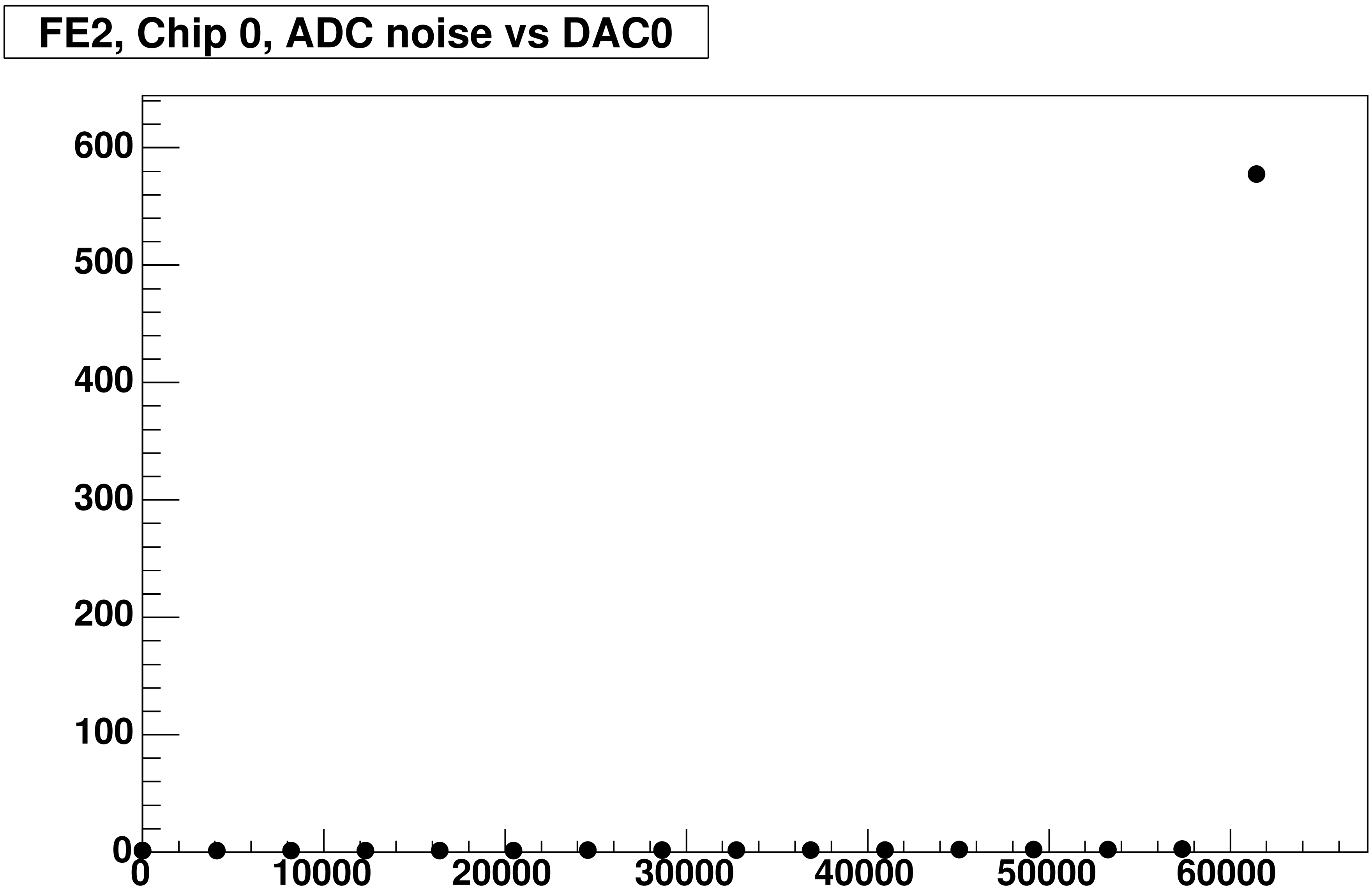

FE1, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1.702e+04 / 11
p0 36.33 ± 0.02147
p1 0.4509 ± 6.952e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



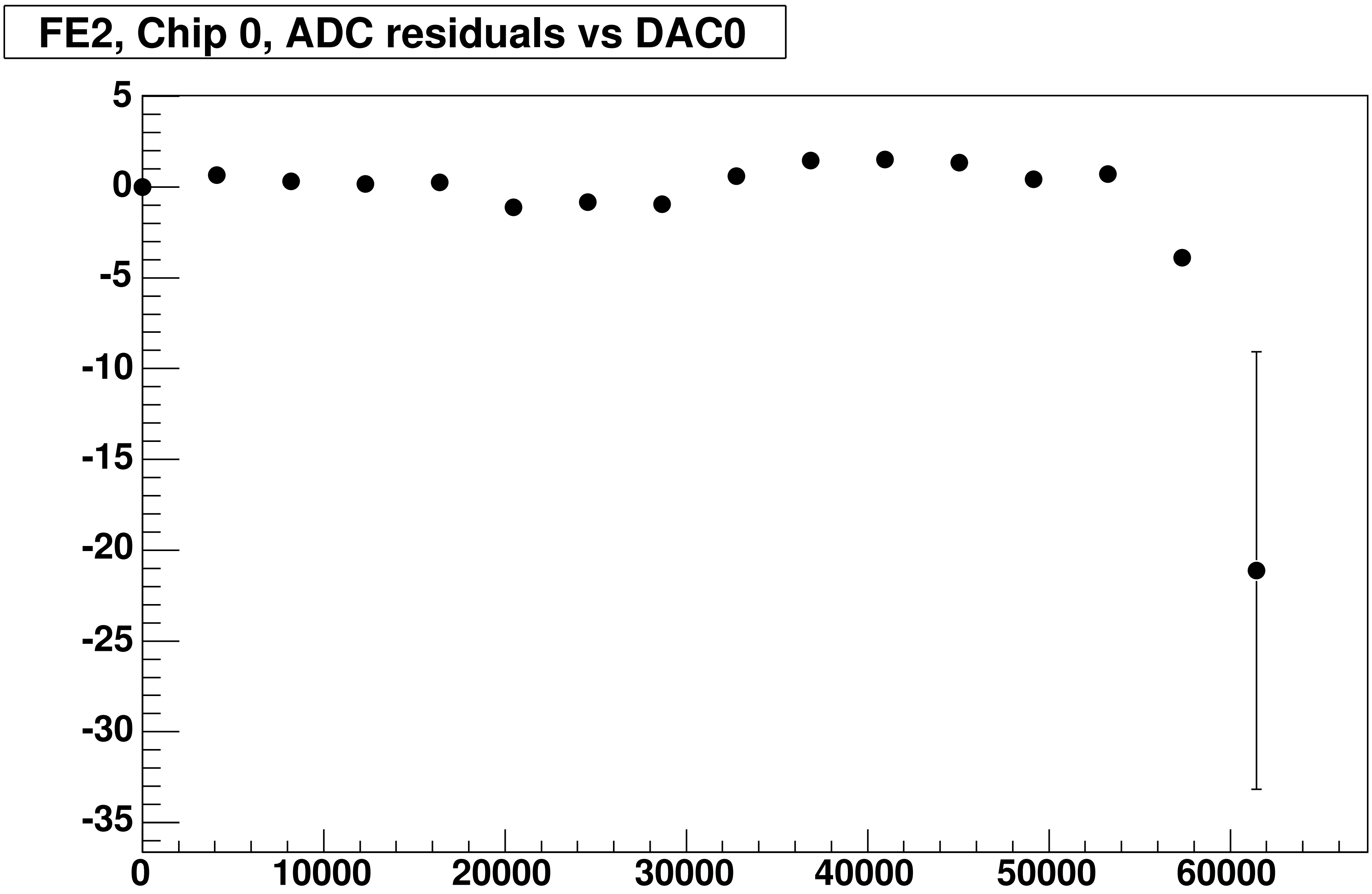
FE1, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

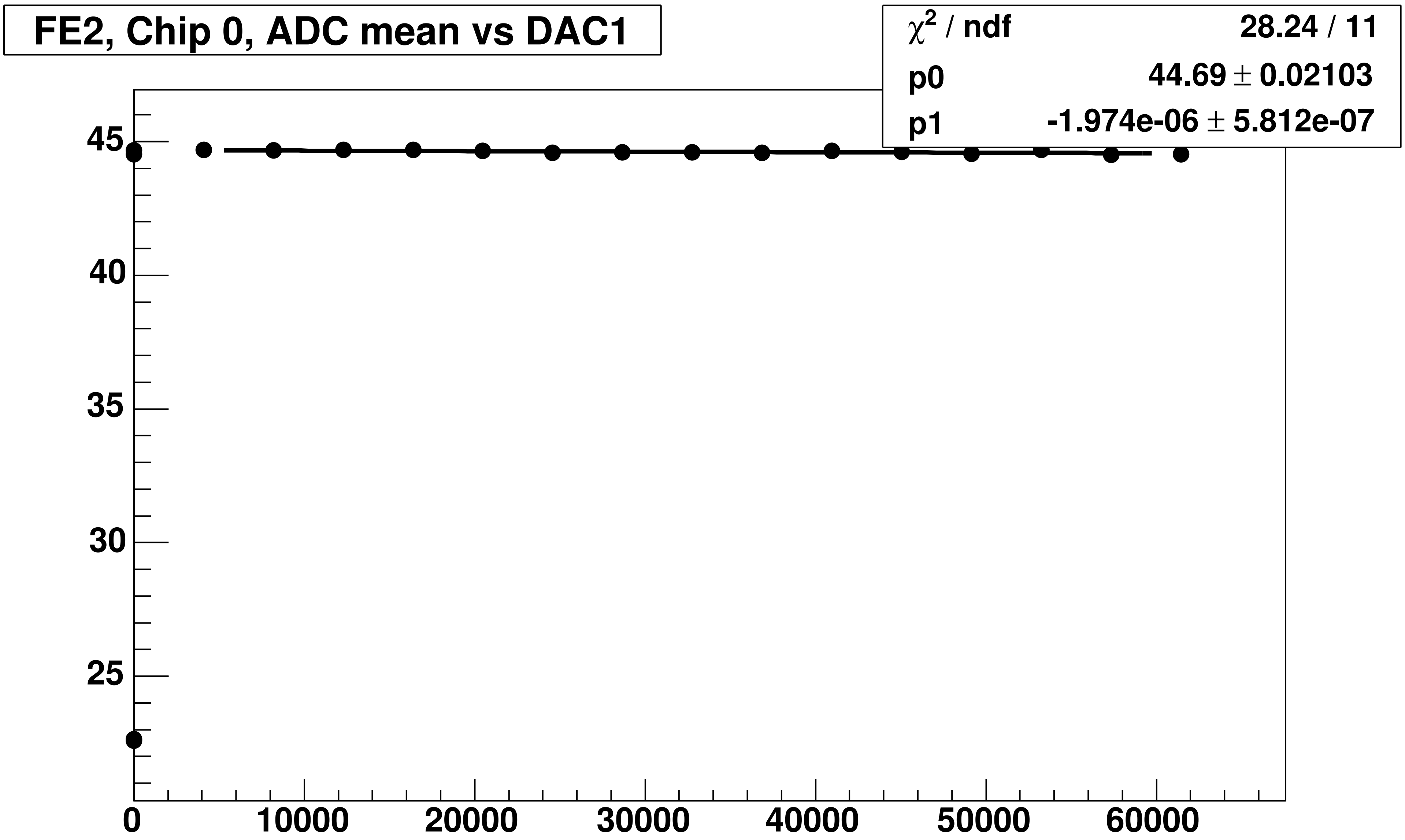

FE2, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1.297e+04 / 11
p0 43.71 ± 0.02125
p1 0.451 ± 6.878e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000



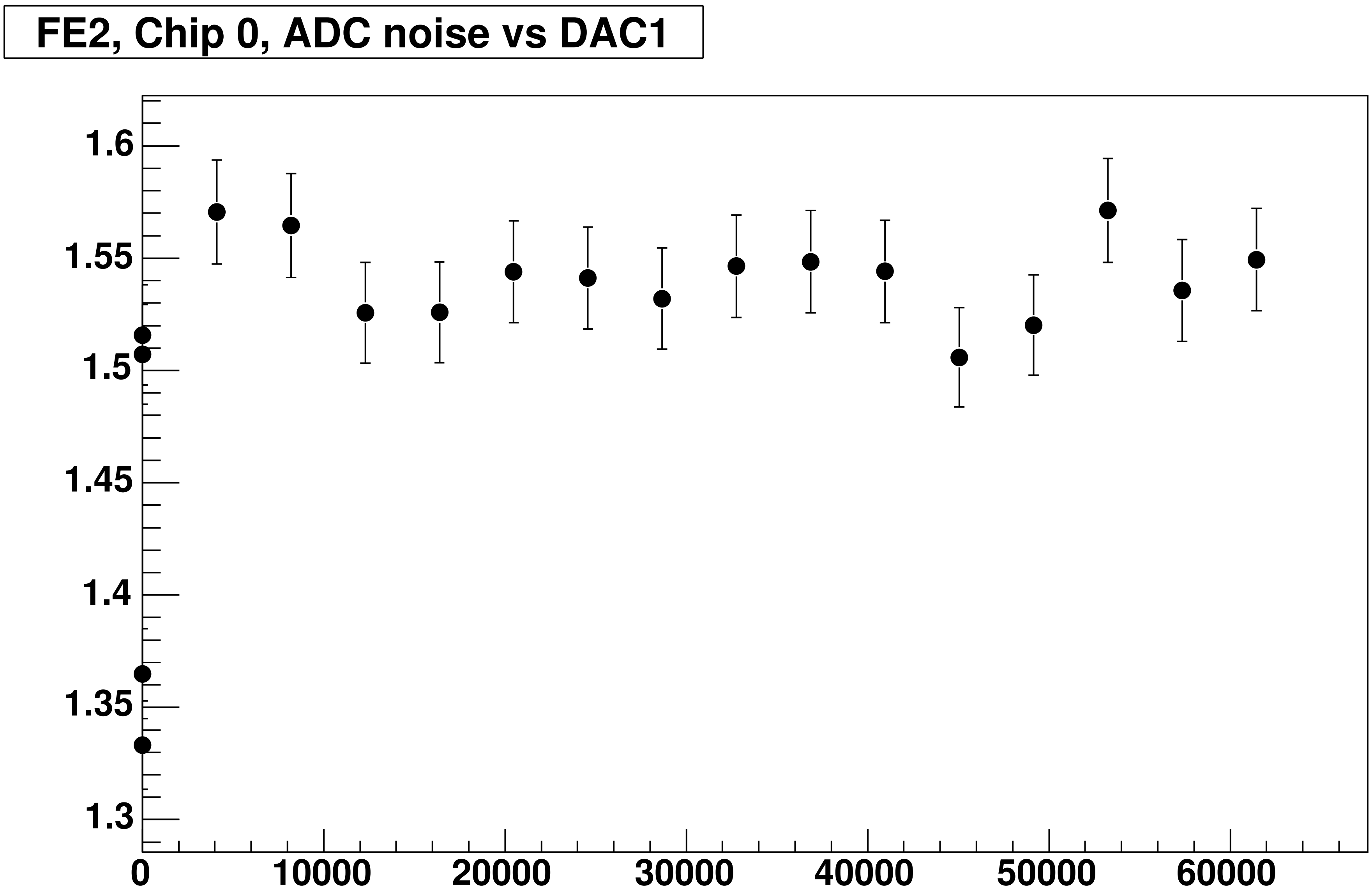
FE2, Chip 0, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000



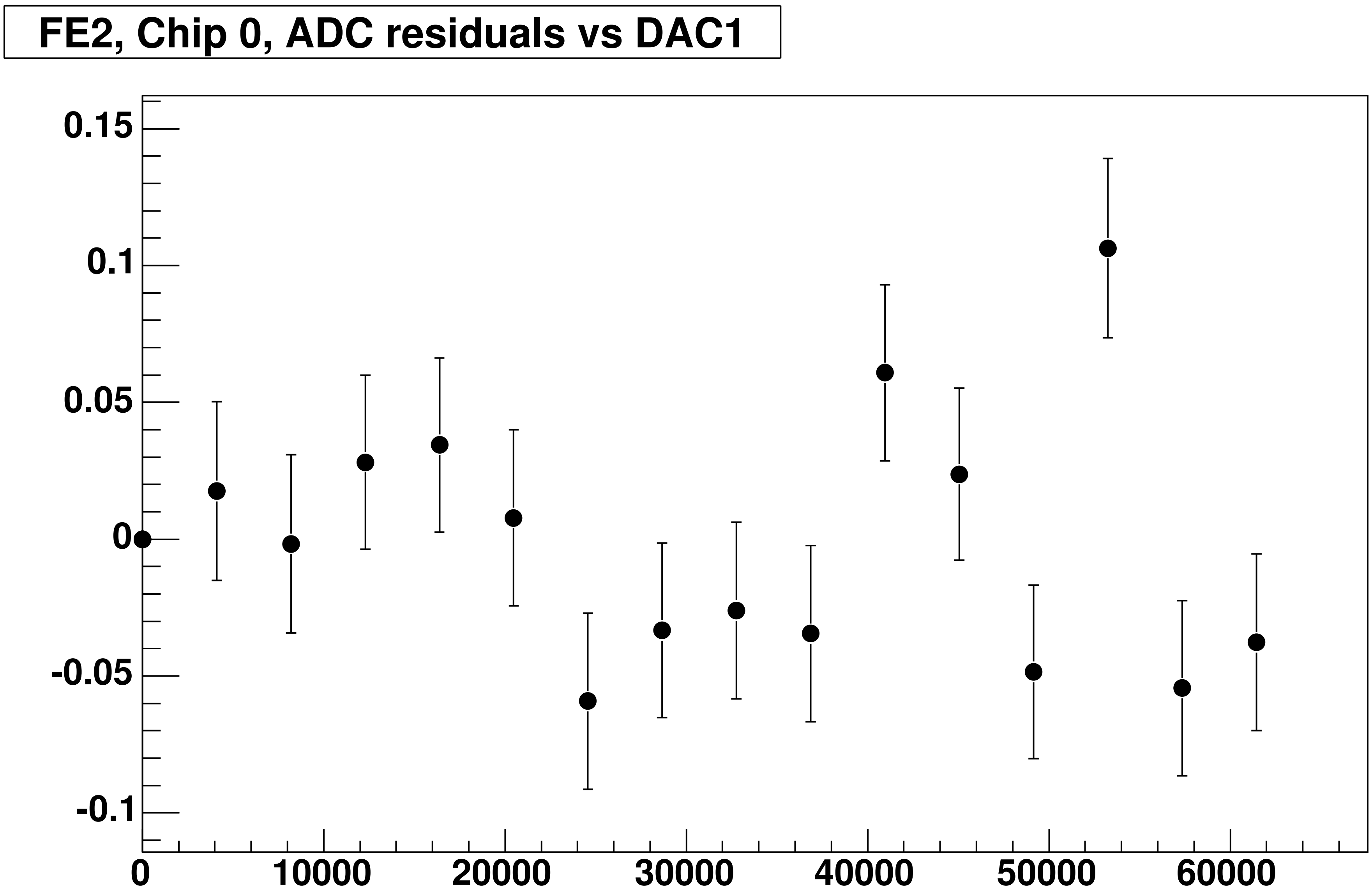
FE2, Chip 0, ADC residuals vs DAC0
5
0
-5
-10
-15
-20
-25
-30
-35
0
10000
20000
30000
40000
50000
60000



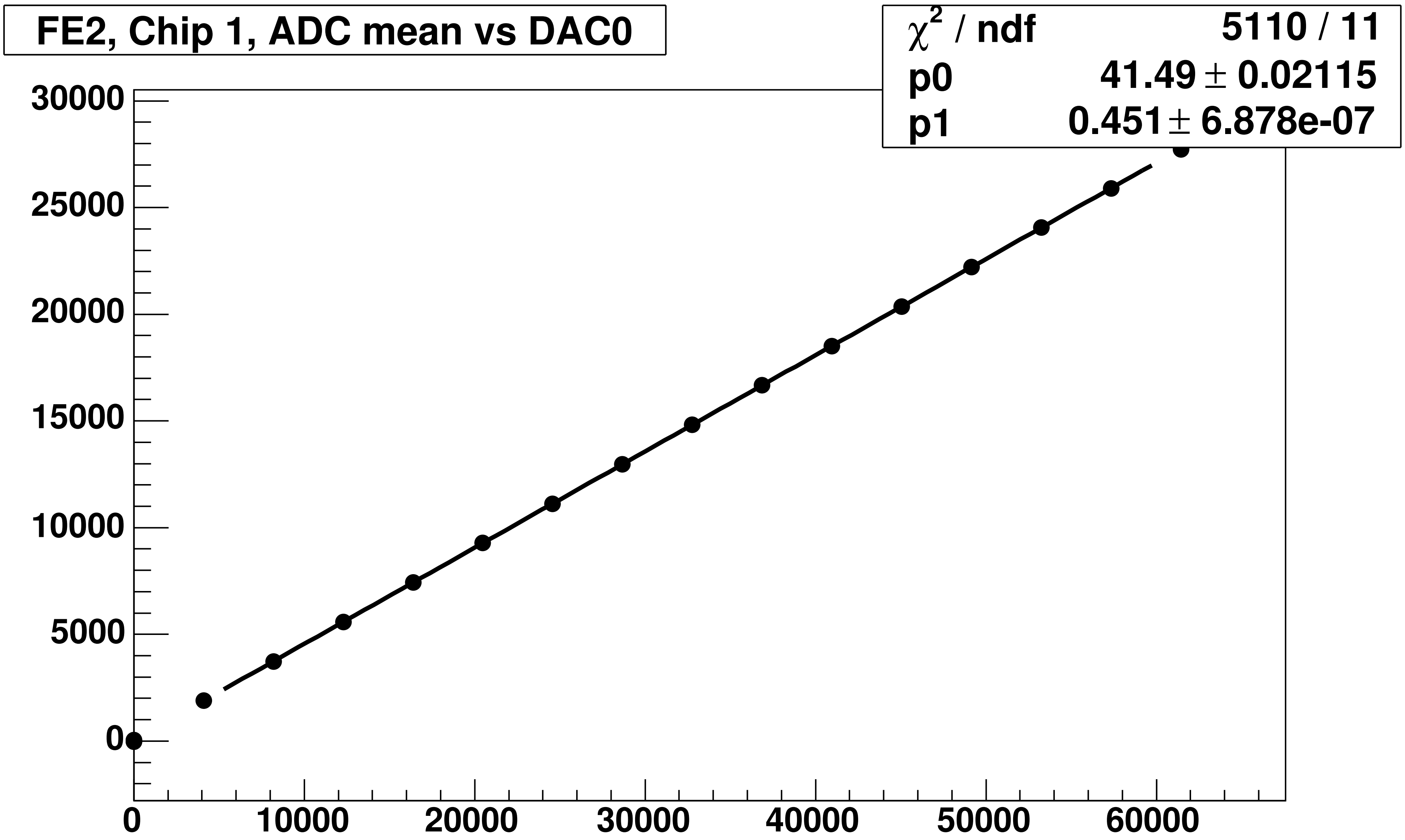
FE2, Chip 0, ADC mean vs DAC1
χ^2 / ndf 28.24 / 11
p0 44.69 ± 0.02103
p1 -1.974e-06 ± 5.812e-07
45
40
35
30
25
0
10000
20000
30000
40000
50000
60000



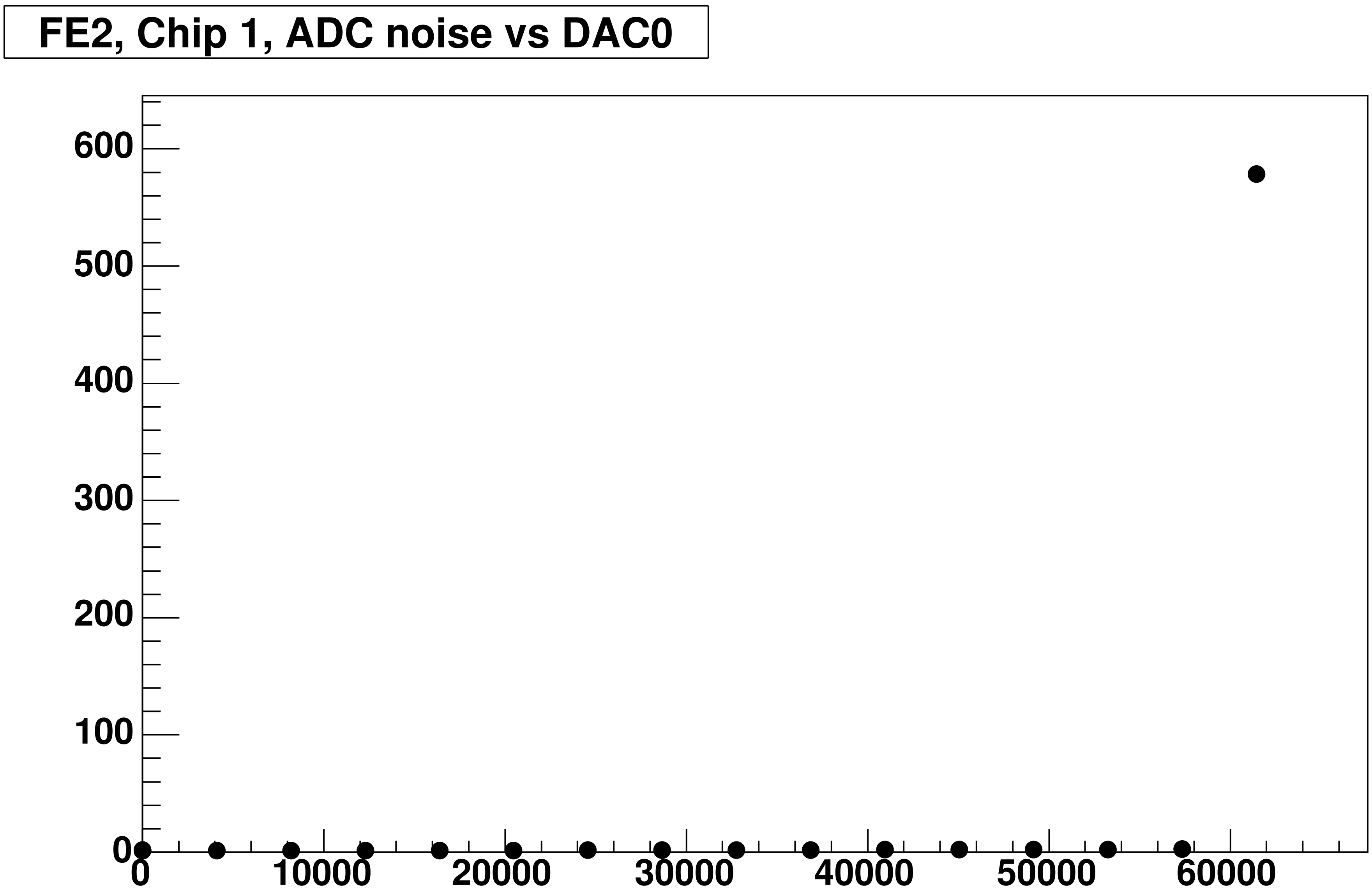
FE2, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

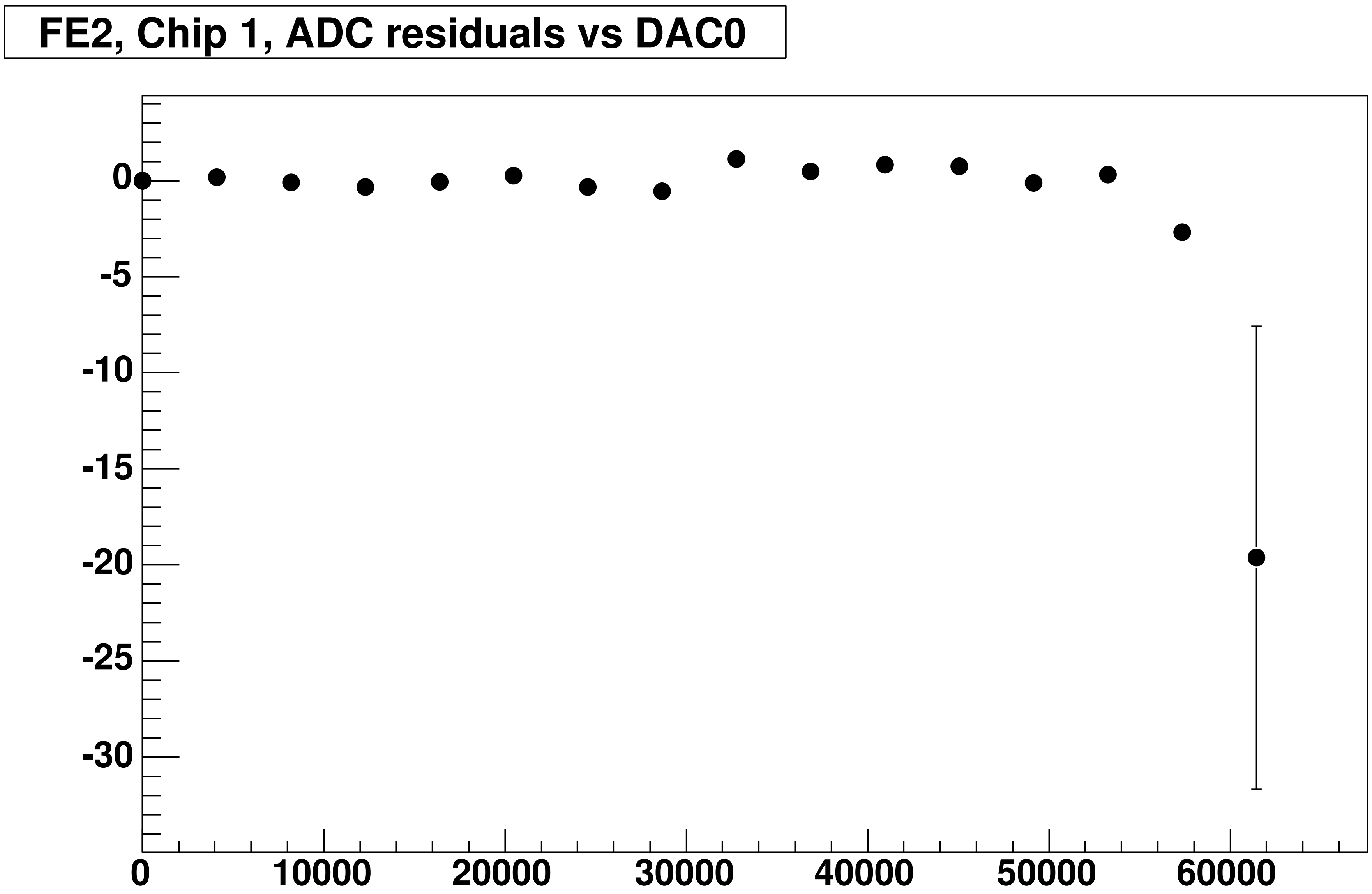


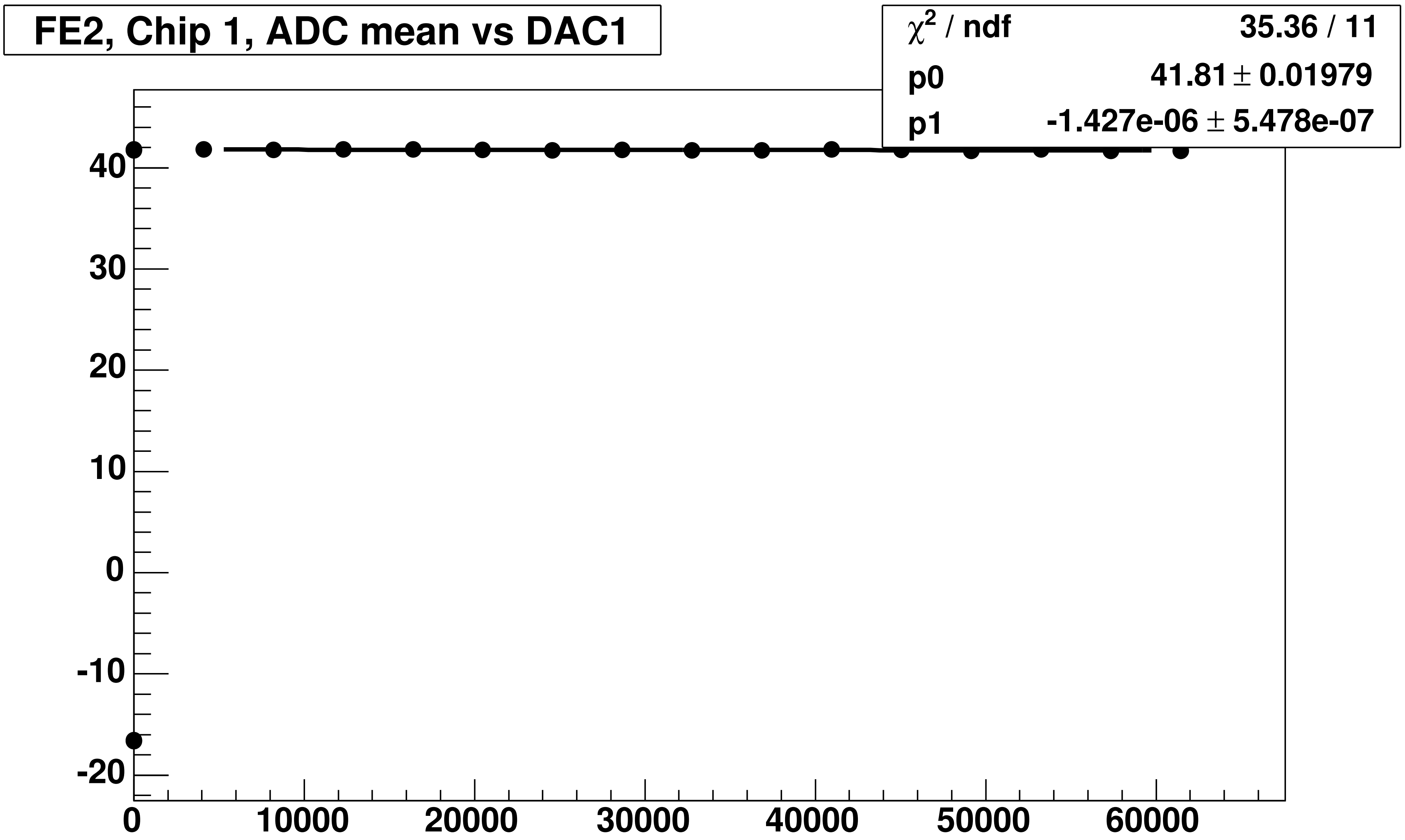
FE2, Chip 0, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000



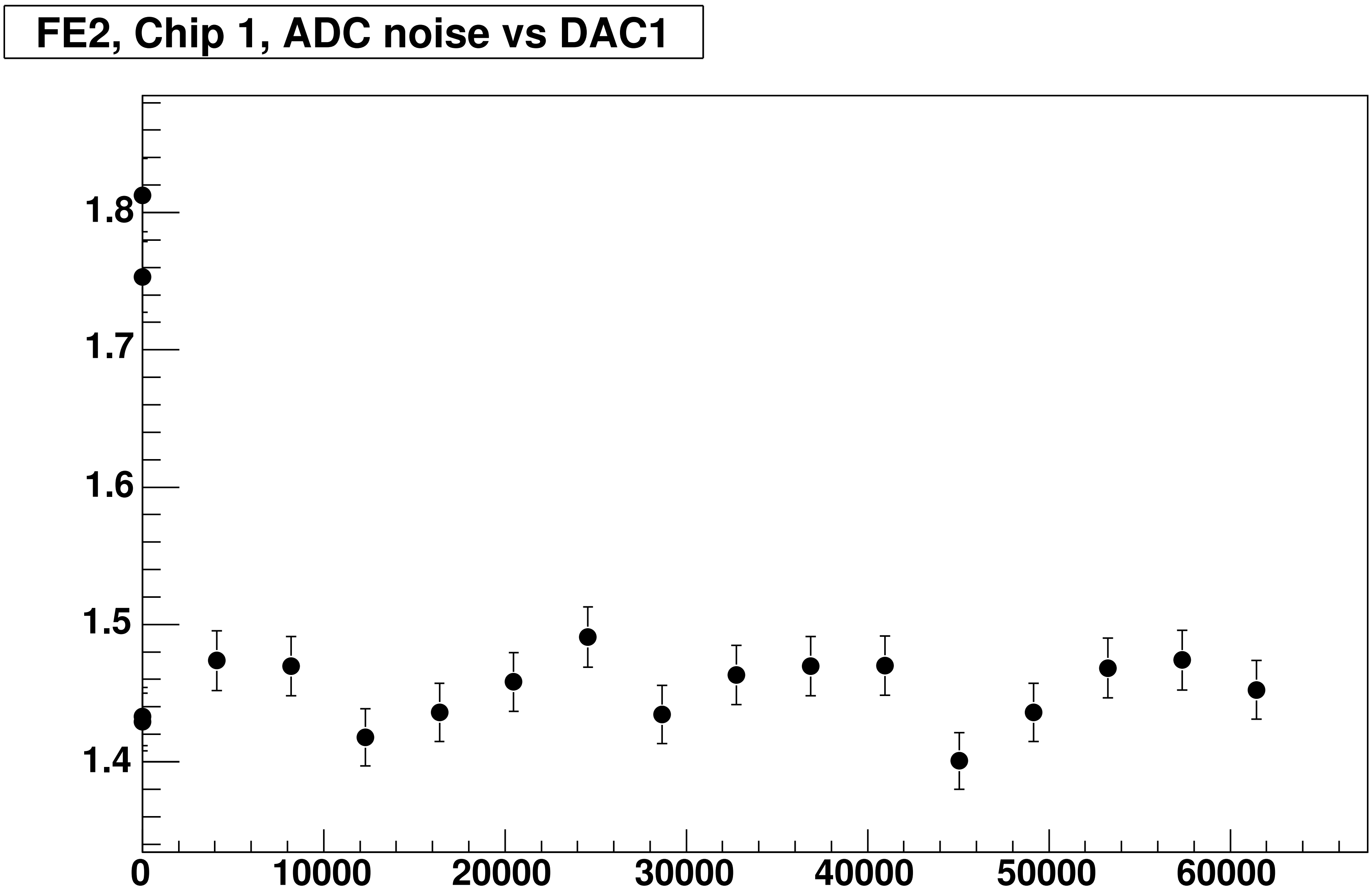
FE2, Chip 1, ADC mean vs DAC0
χ^2 / ndf 5110 / 11
p0 41.49 ± 0.02115
p1 0.451 ± 6.878e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

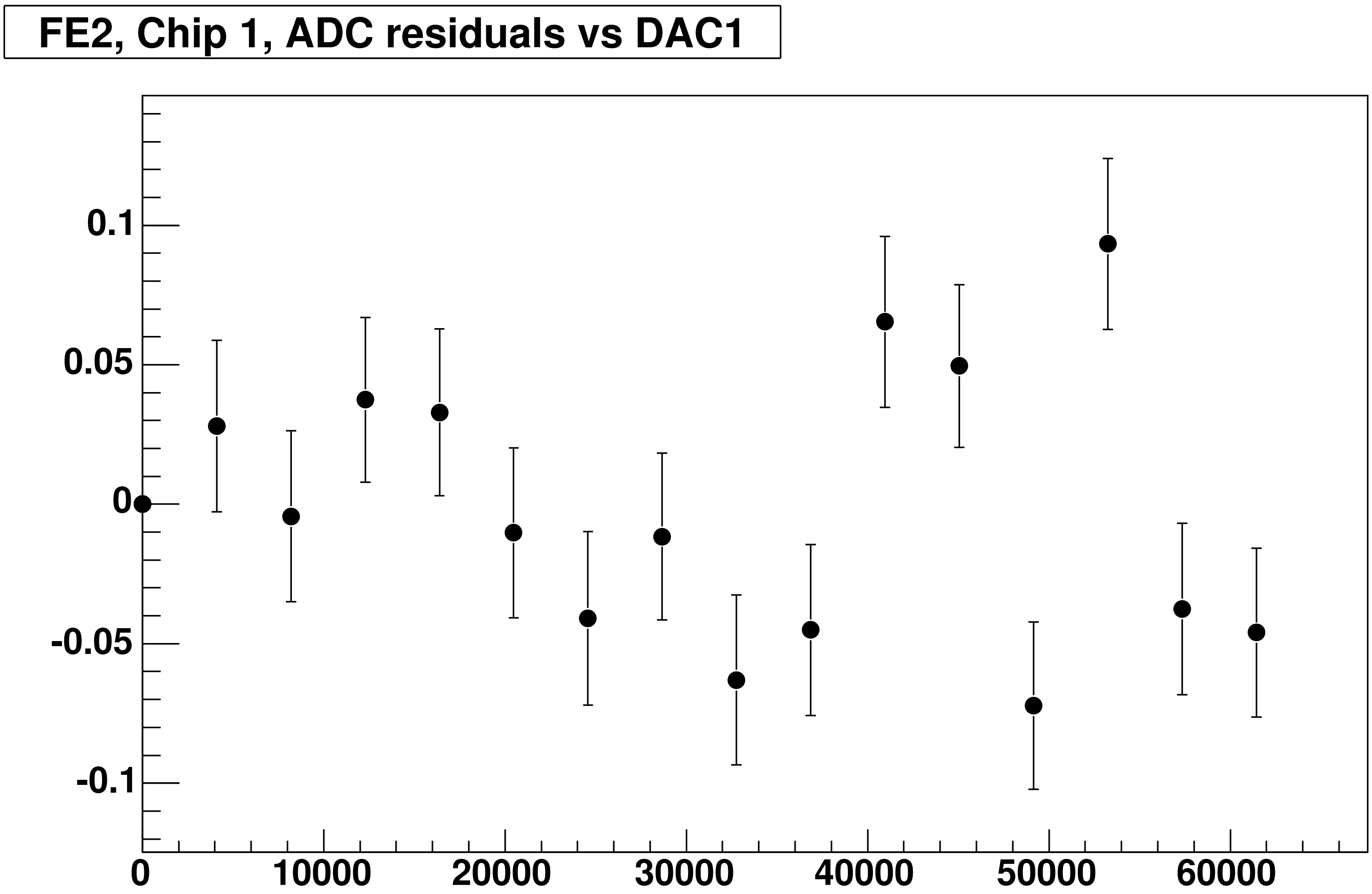

FE2, Chip 1, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 1, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

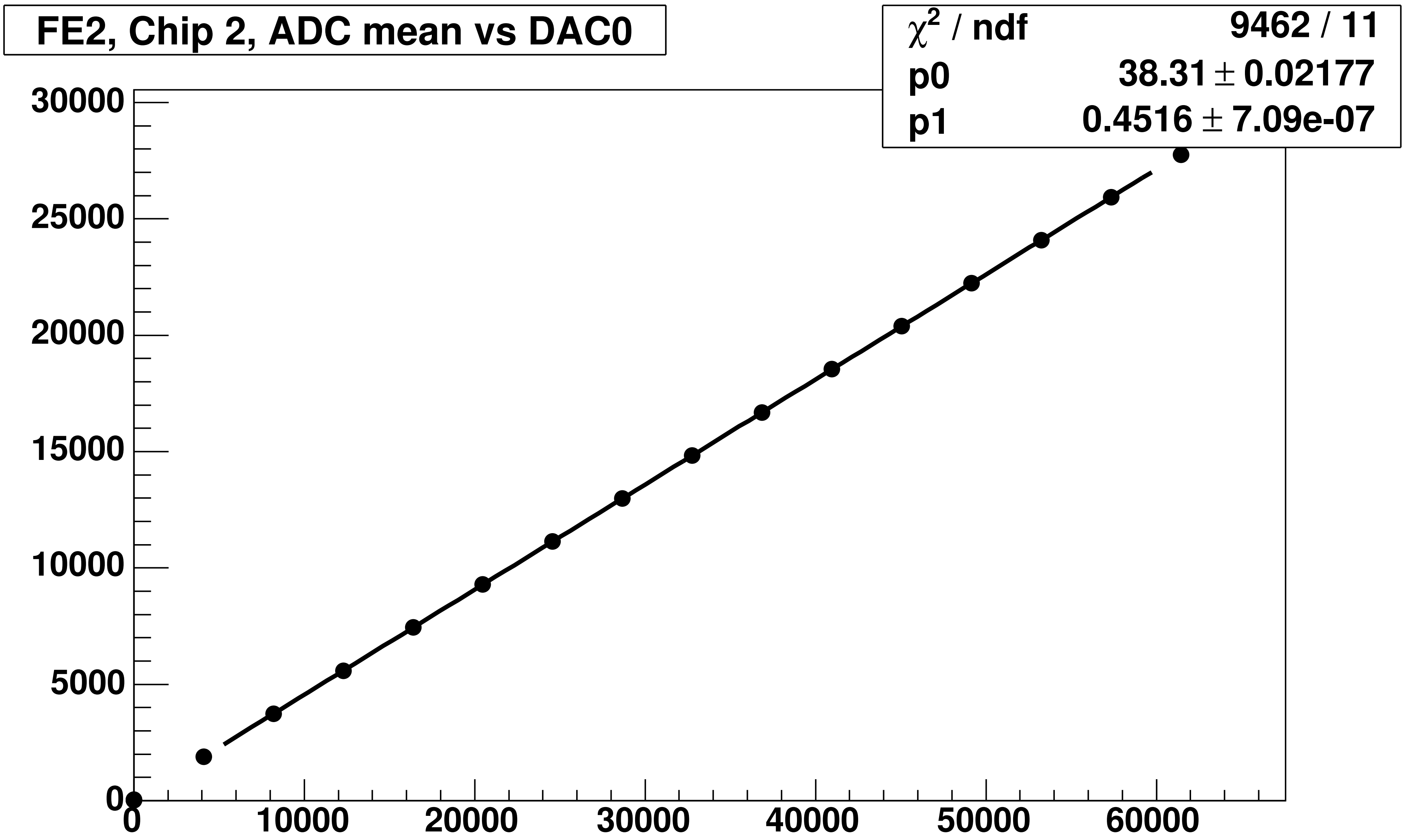


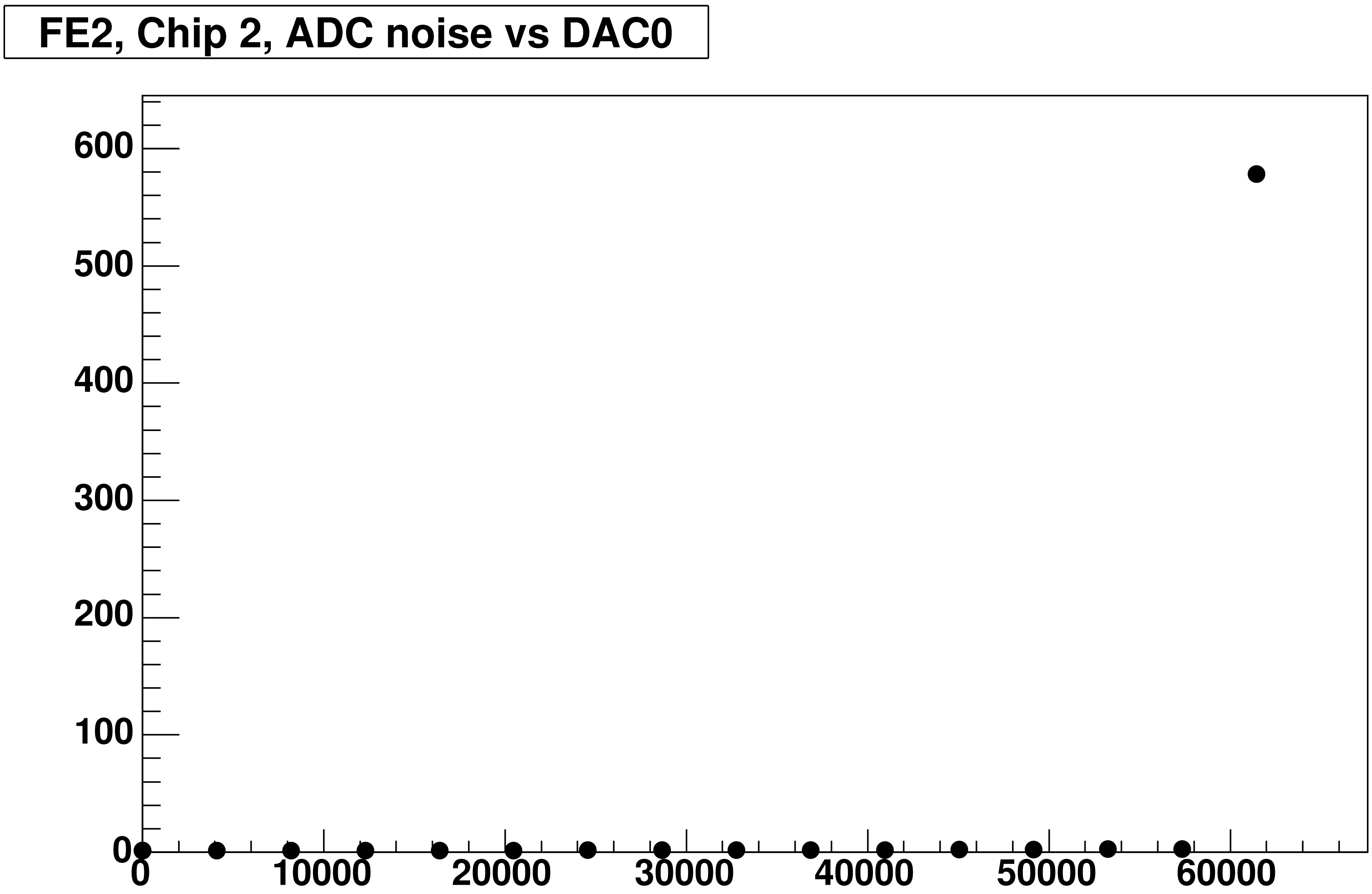
FE2, Chip 1, ADC mean vs DAC1
χ^2 / ndf 35.36 / 11
p0 41.81 ± 0.01979
p1 -1.427e-06 ± 5.478e-07
40
30
20
10
0
-10
-20
0
10000
20000
30000
40000
50000
60000


FE2, Chip 1, ADC noise vs DAC1
1.4
1.5
1.6
1.7
1.8
0
10000
20000
30000
40000
50000
60000

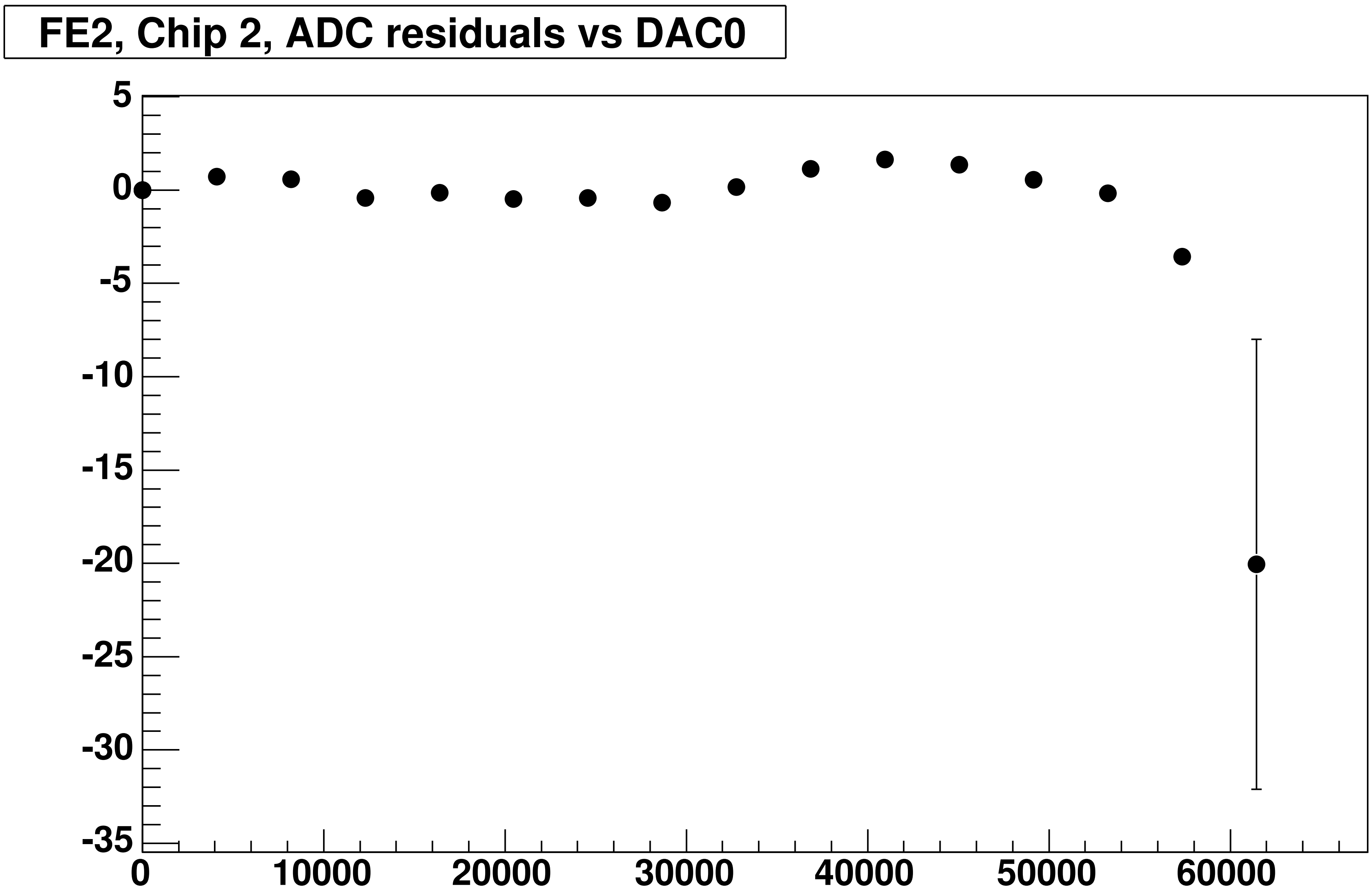


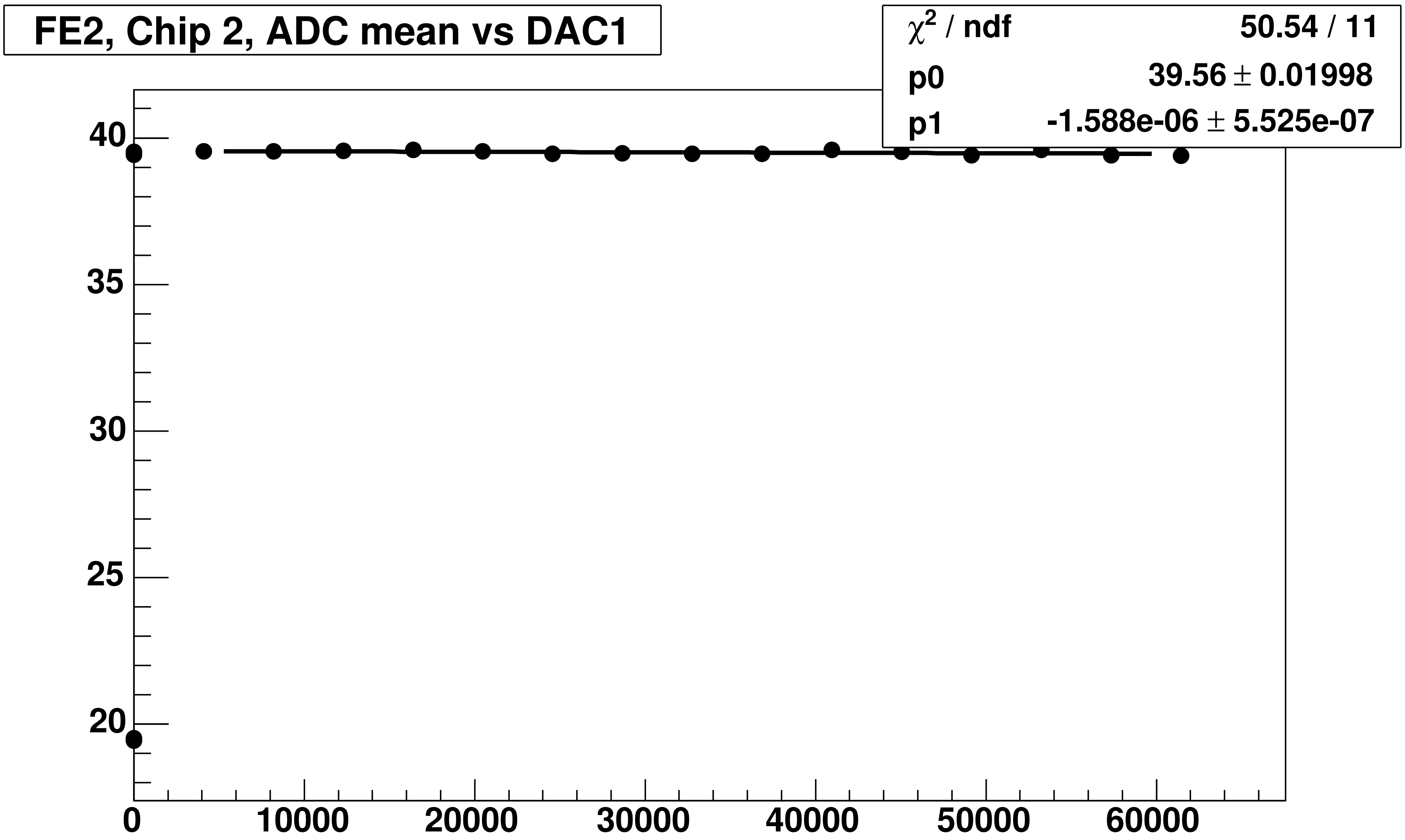
FE2, Chip 1, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

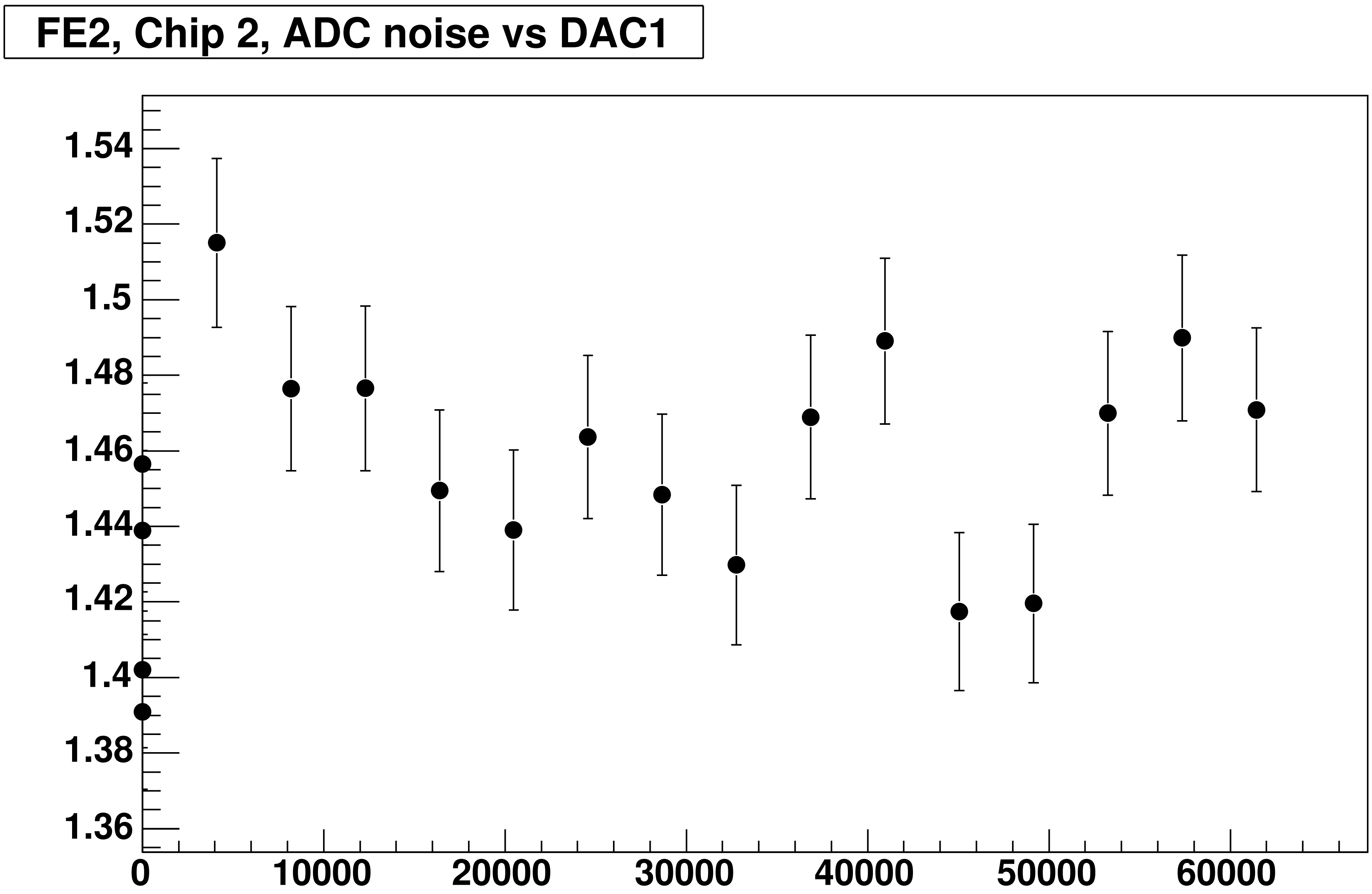

FE2, Chip 2, ADC mean vs DAC0
χ^2 / ndf 9462 / 11
p0 38.31 ± 0.02177
p1 0.4516 ± 7.09e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



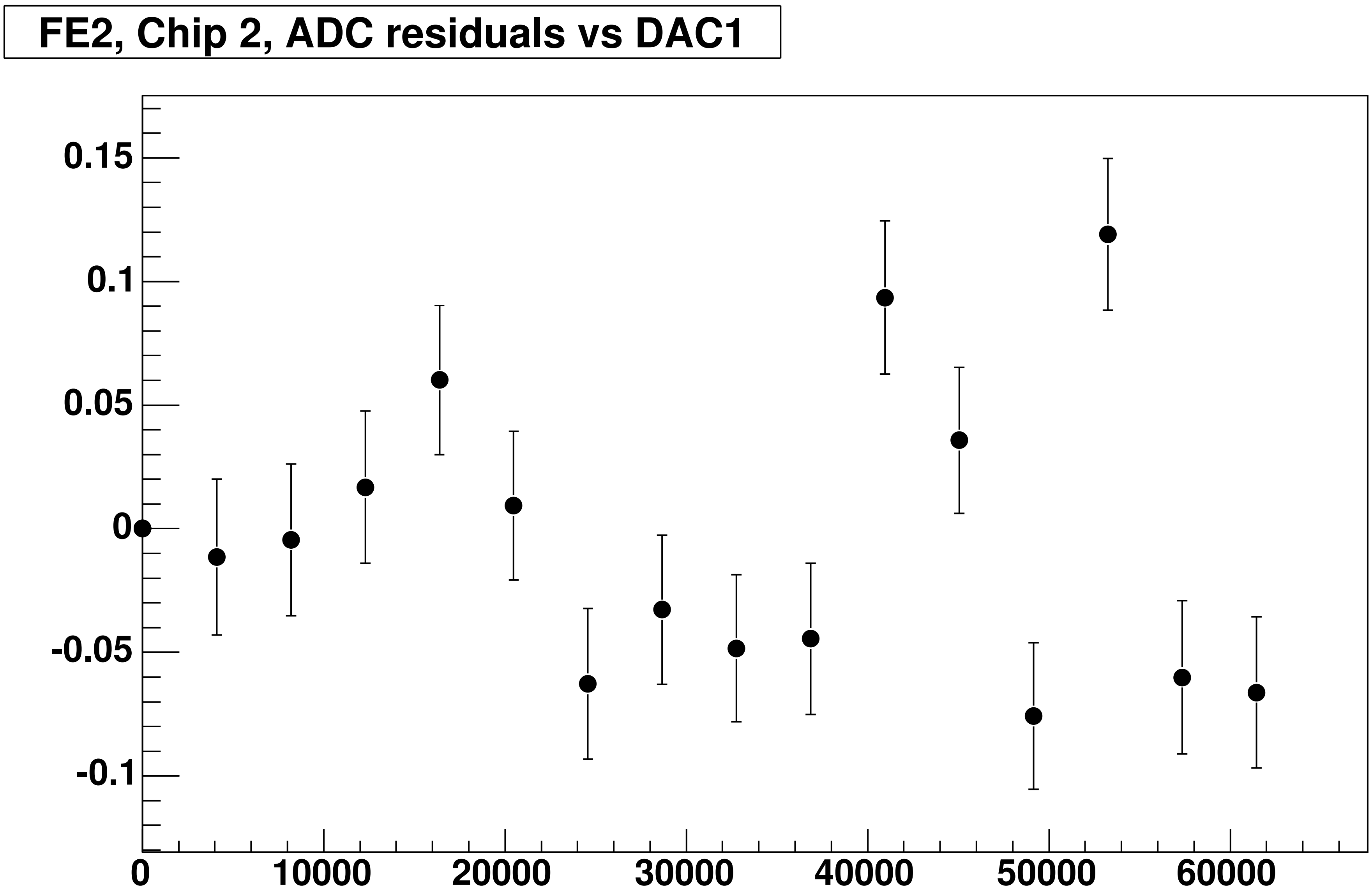
FE2, Chip 2, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 2, ADC residuals vs DAC0
5
0
-5
-10
-15
-20
-25
-30
-35
0
10000
20000
30000
40000
50000
60000

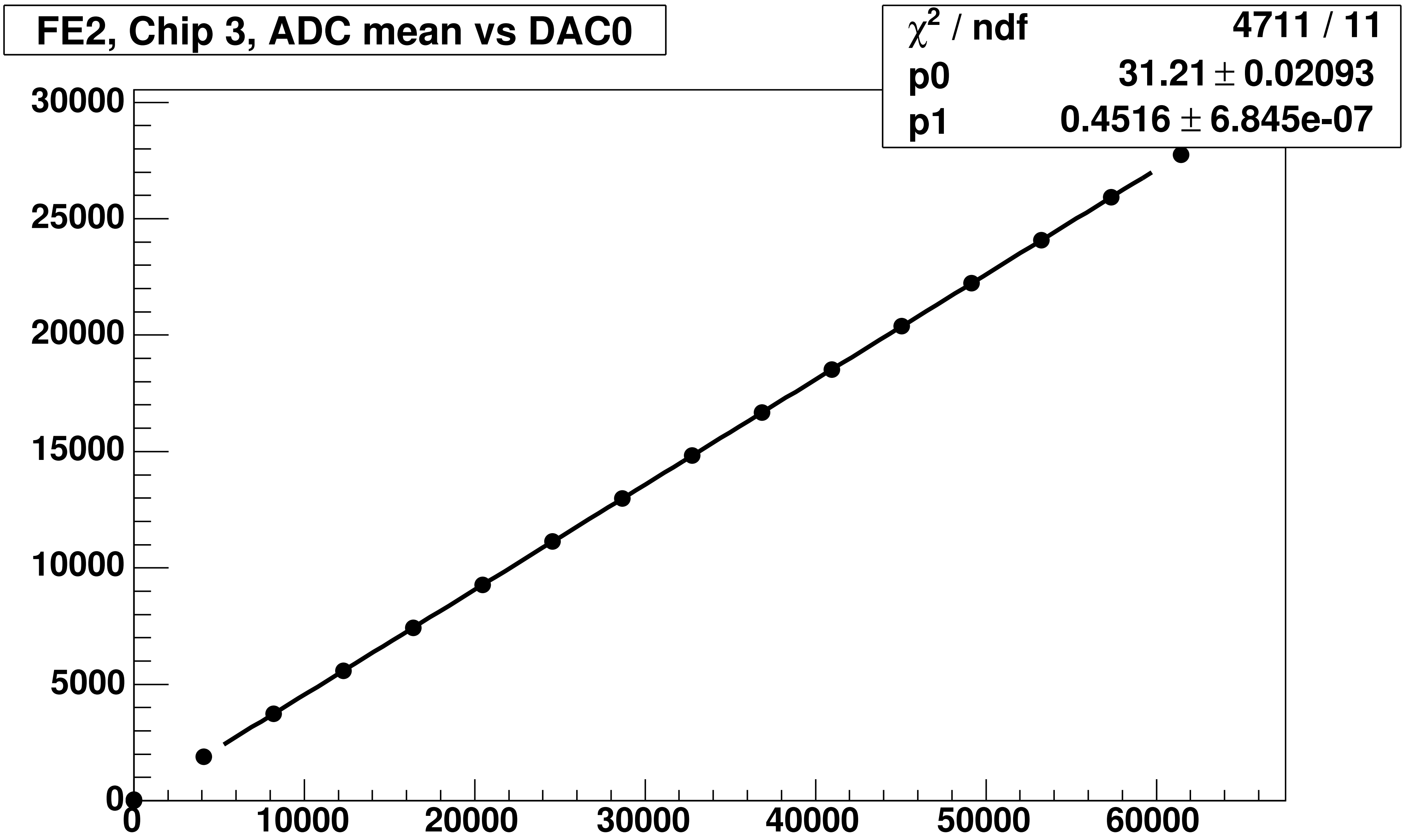

FE2, Chip 2, ADC mean vs DAC1
χ2 / ndf 50.54 / 11
p0 39.56 ± 0.01998
p1 -1.588e-06 ± 5.525e-07
40
35
30
25
20
0
10000
20000
30000
40000
50000
60000

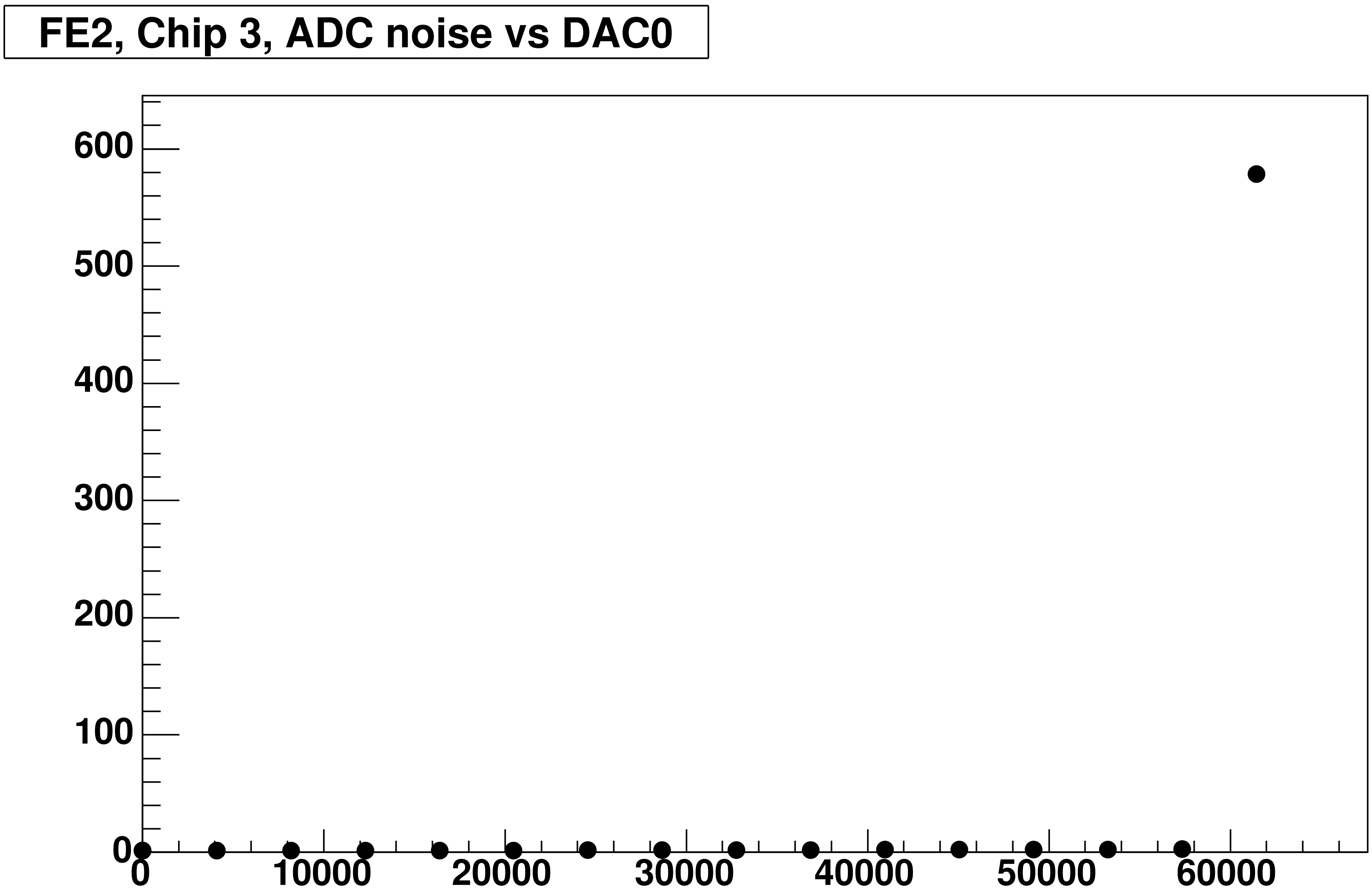


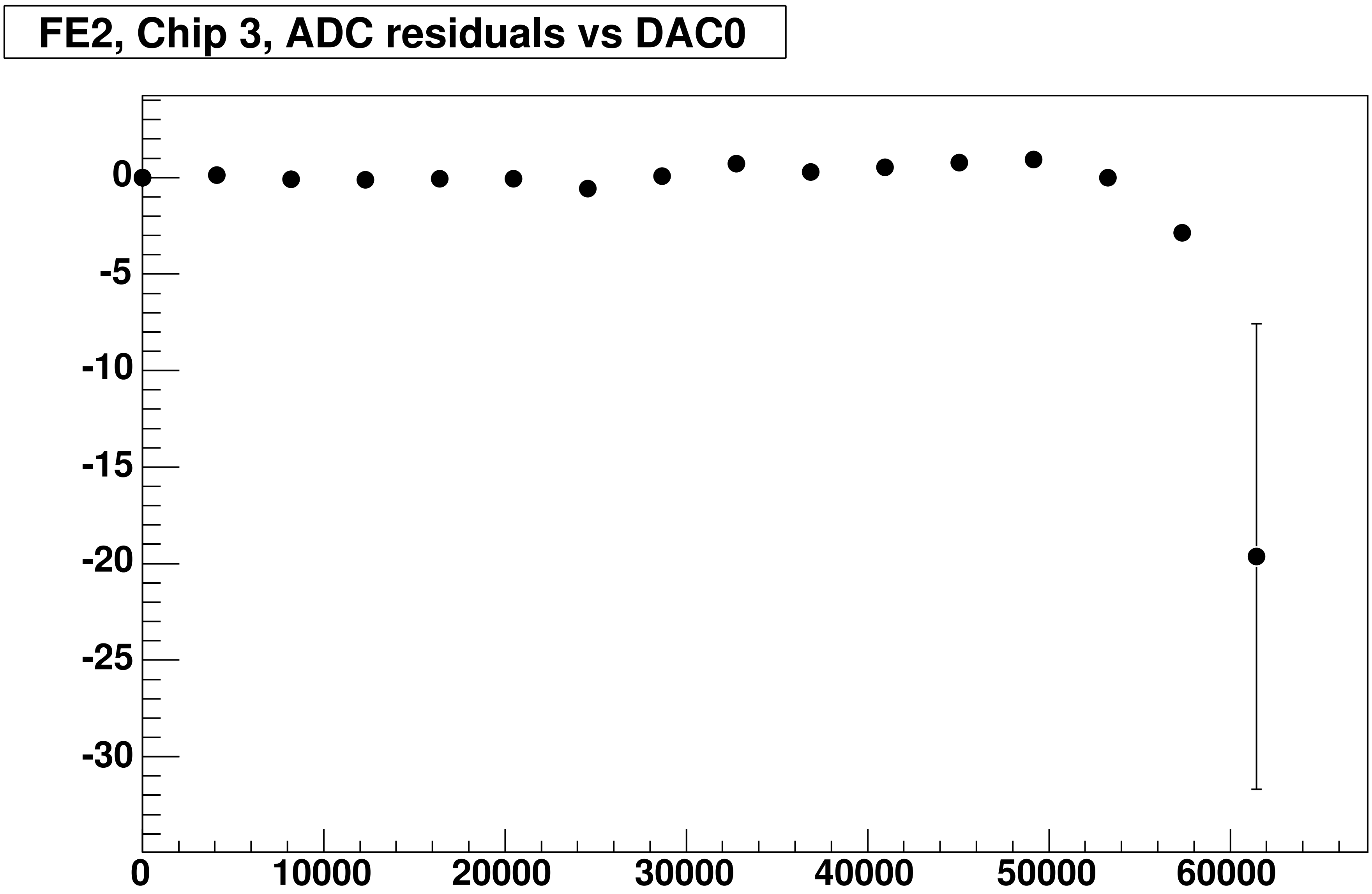
FE2, Chip 2, ADC noise vs DAC1
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
0
10000
20000
30000
40000
50000
60000

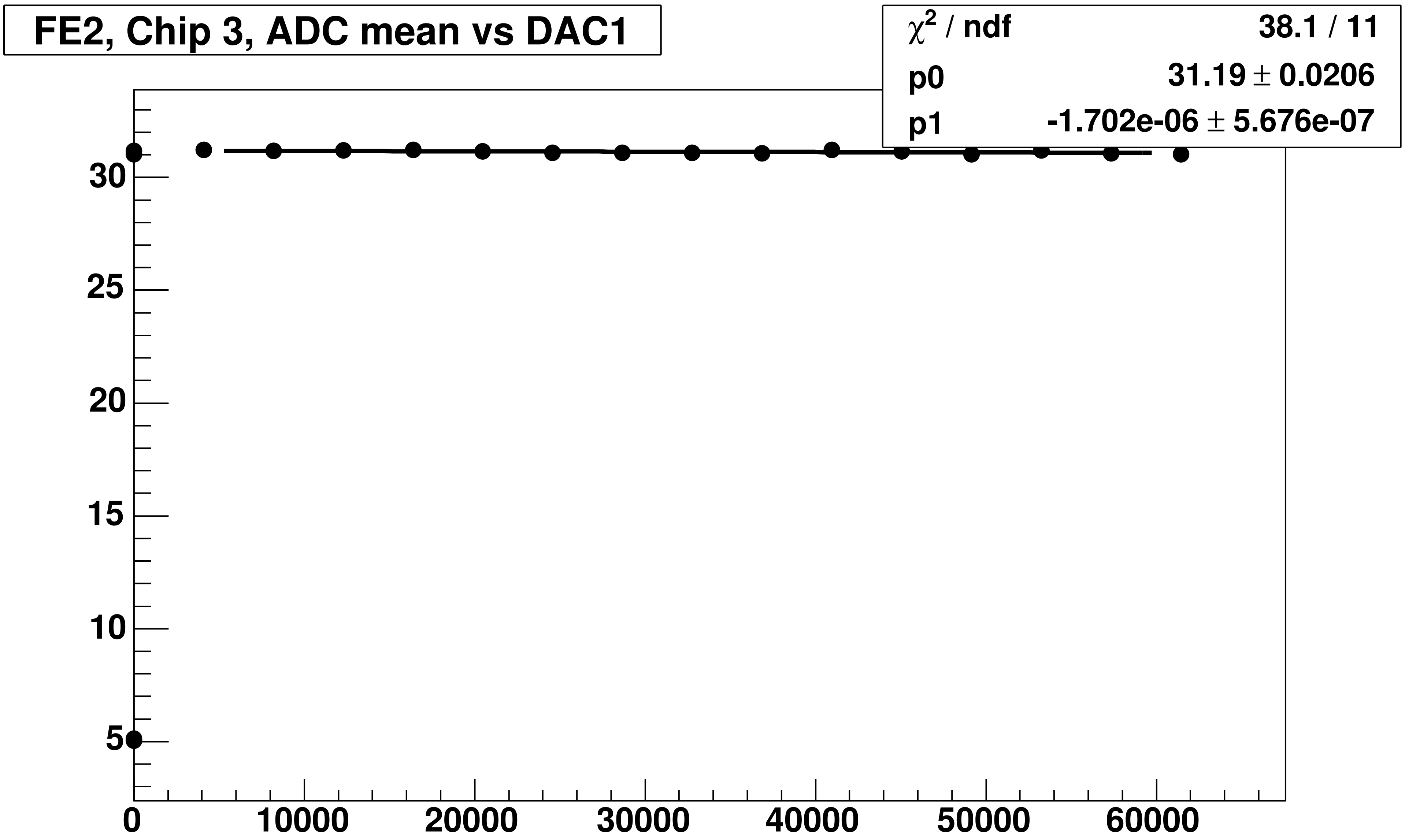


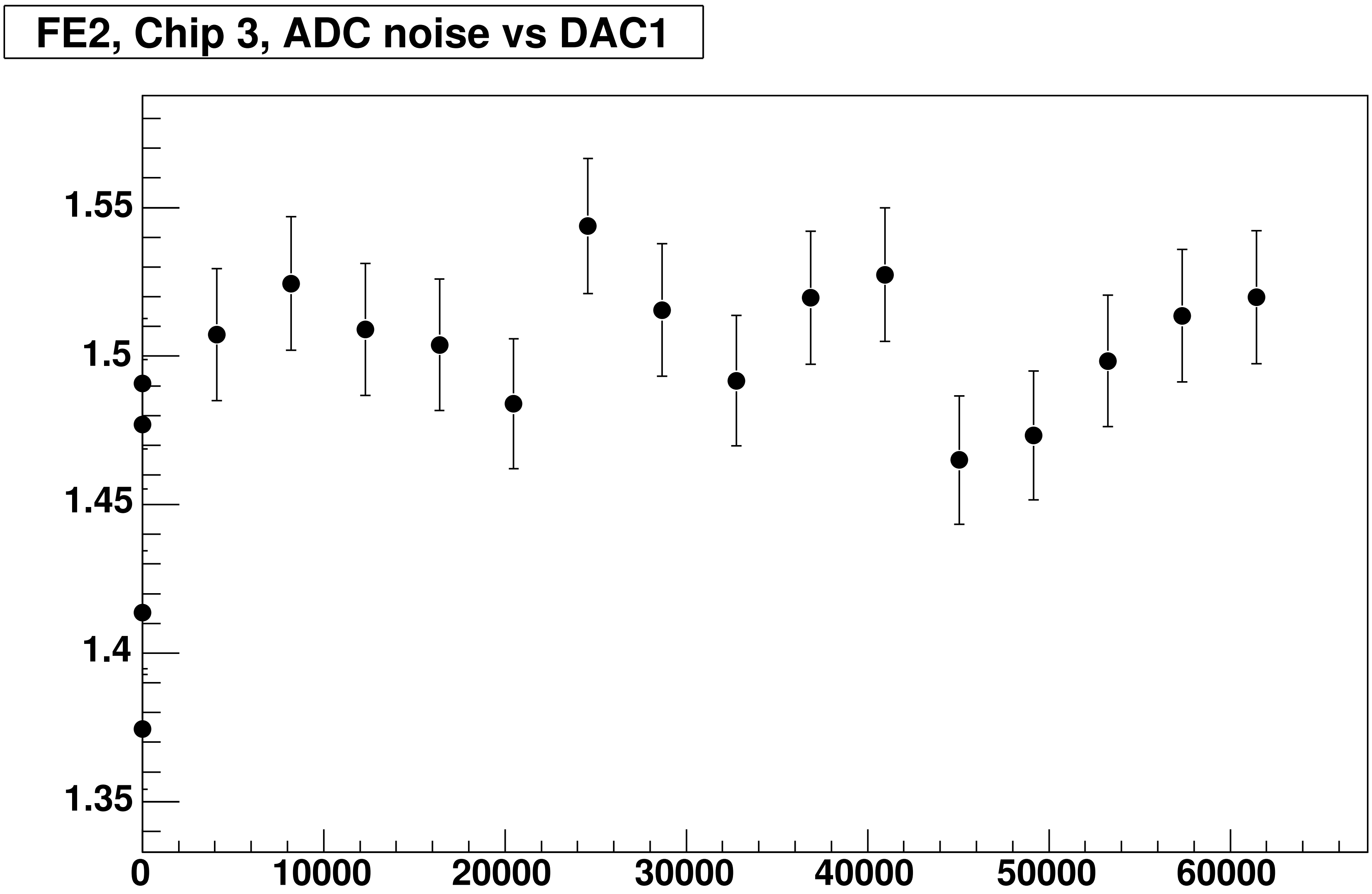
FE2, Chip 2, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

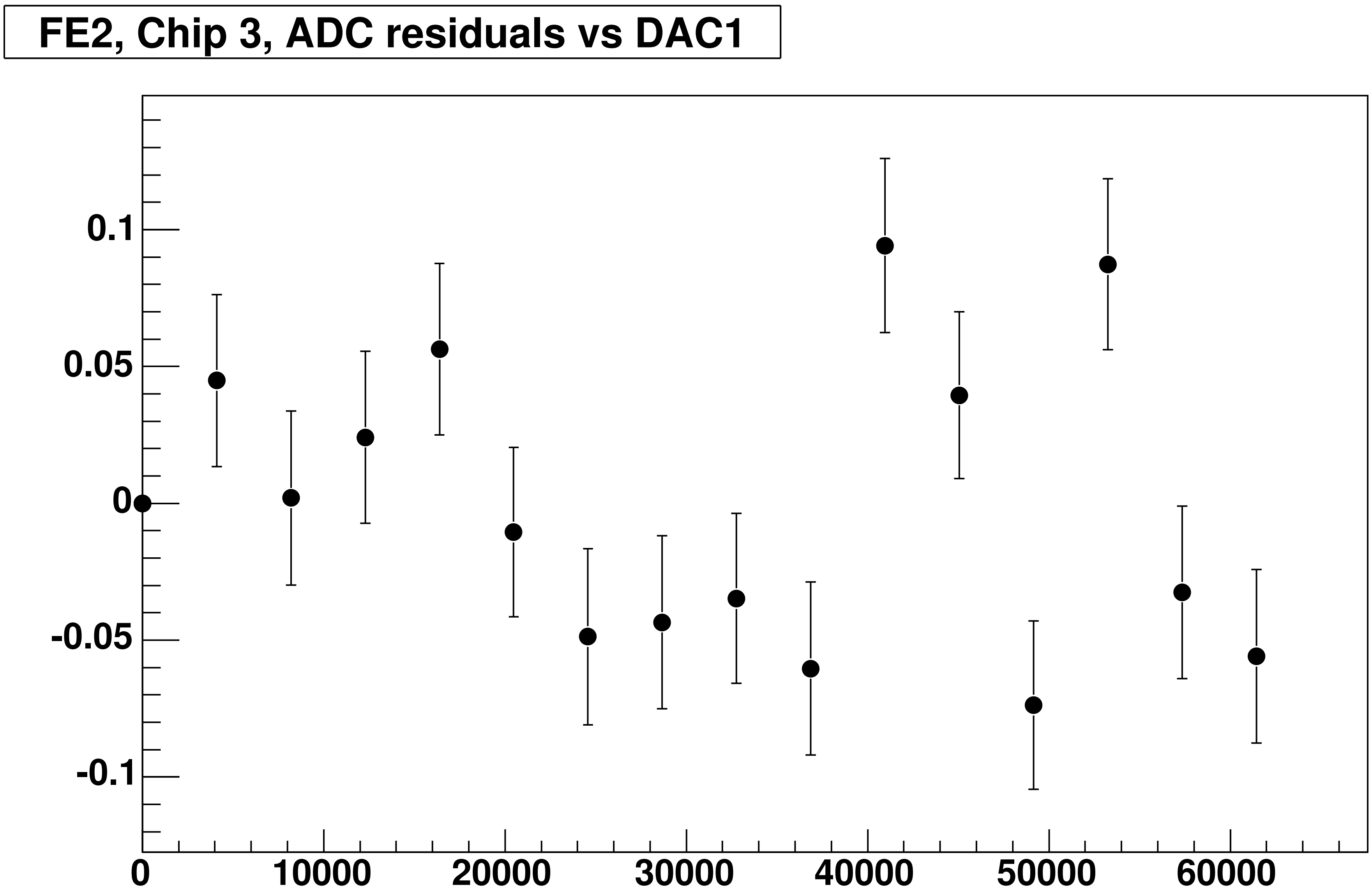

FE2, Chip 3, ADC mean vs DAC0
χ^2 / ndf 4711 / 11
p0 31.21 ± 0.02093
p1 0.4516 ± 6.845e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

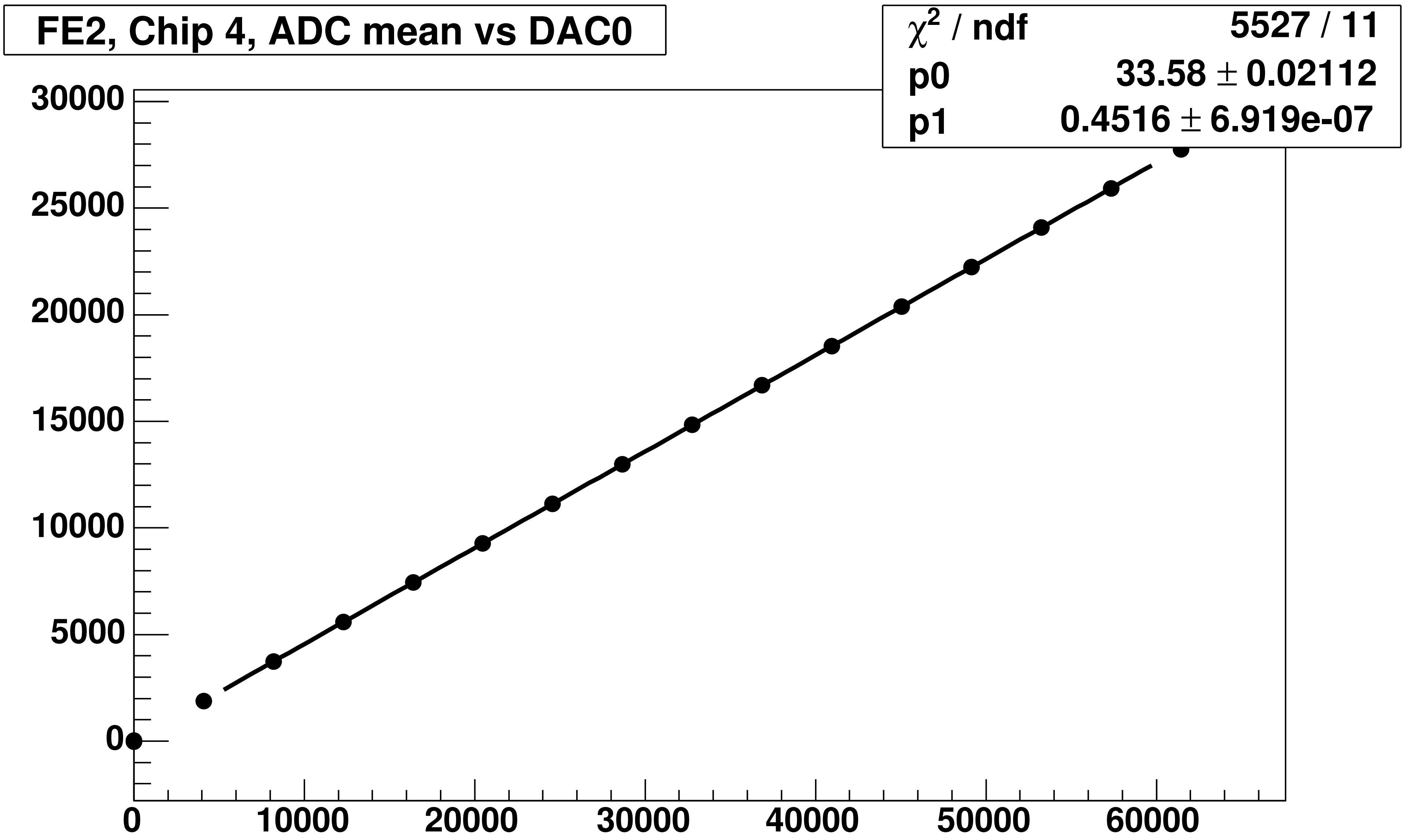

FE2, Chip 3, ADC noise vs DAC0
0
100
200
300
400
500
600
0
10000
20000
30000
40000
50000
60000


FE2, Chip 3, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

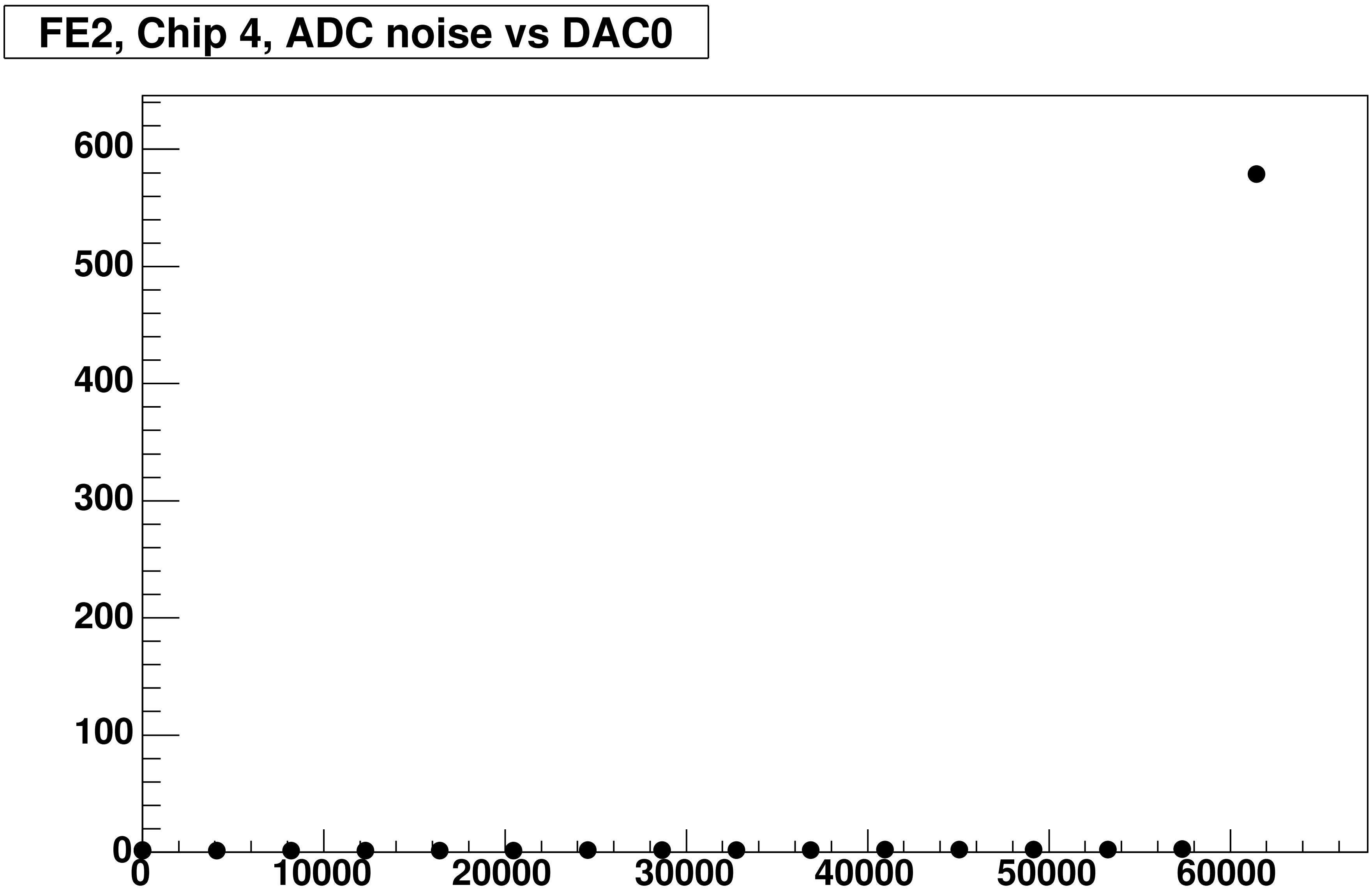

FE2, Chip 3, ADC mean vs DAC1
χ^2 / ndf 38.1 / 11
p0 31.19 ± 0.0206
p1 -1.702e-06 ± 5.676e-07
30
25
20
15
10
5
0
10000
20000
30000
40000
50000
60000

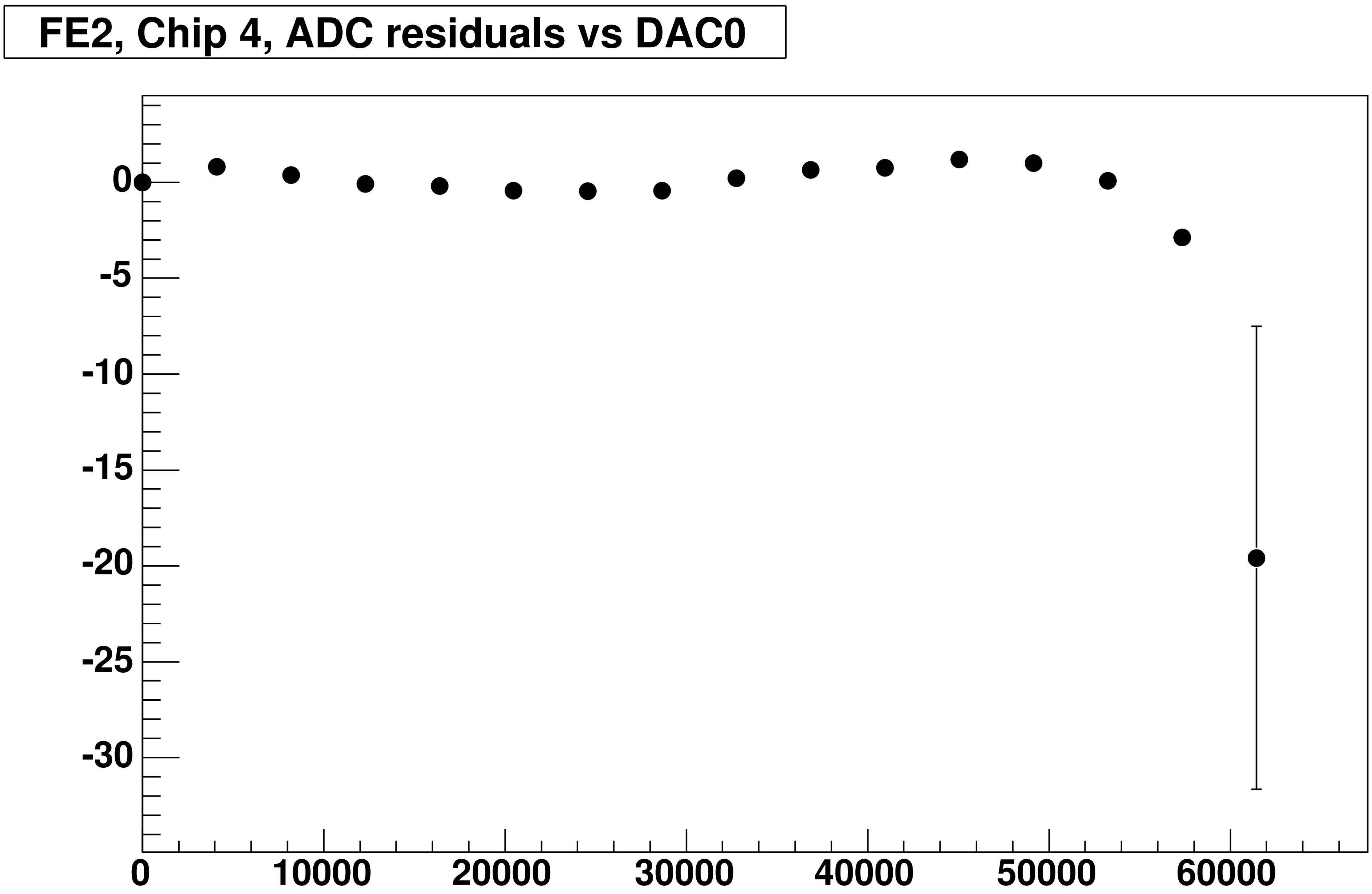

FE2, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

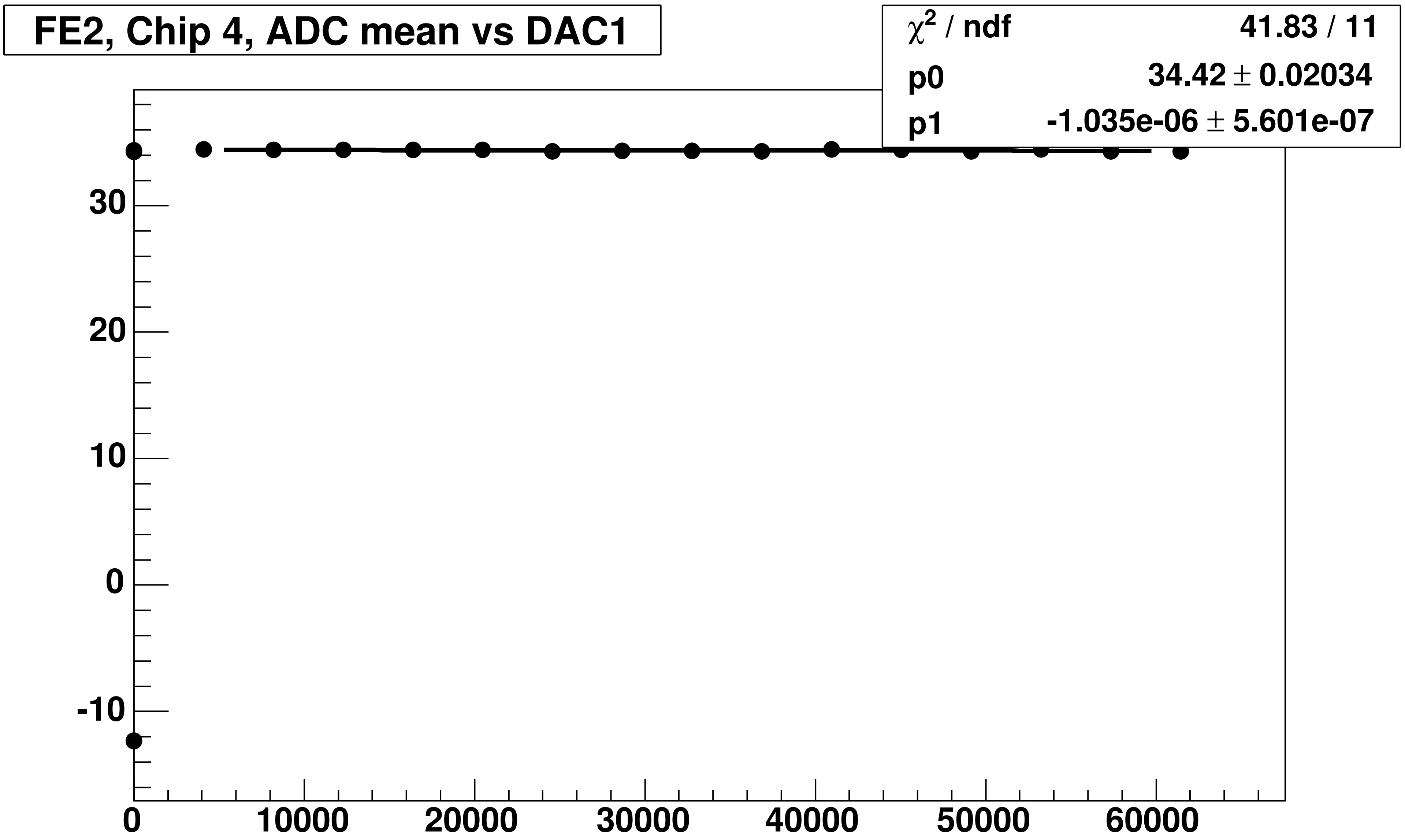

FE2, Chip 3, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

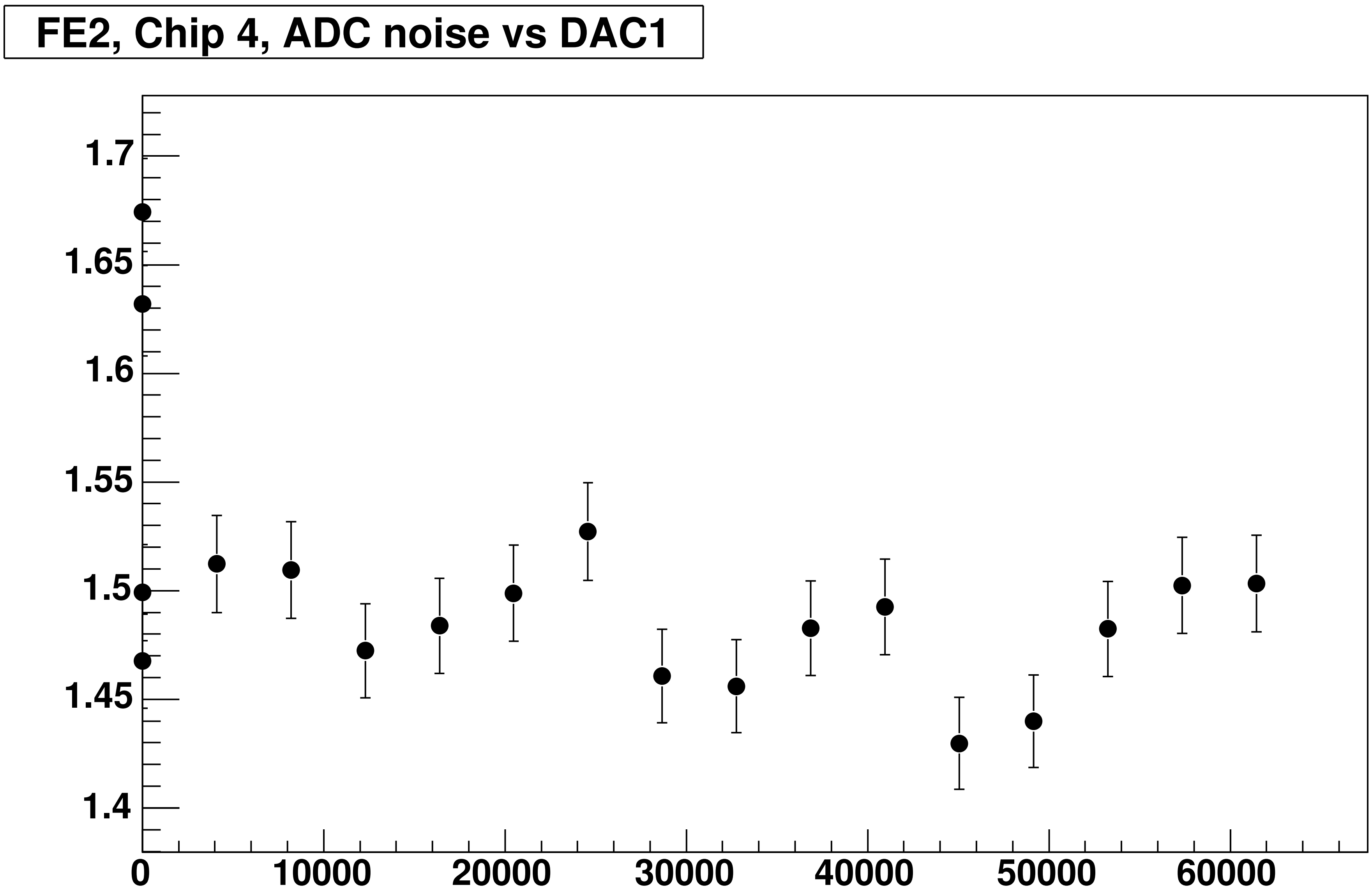


FE2, Chip 4, ADC mean vs DAC0
χ^2 / ndf 5527 / 11
p0 33.58 ± 0.02112
p1 0.4516 ± 6.919e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

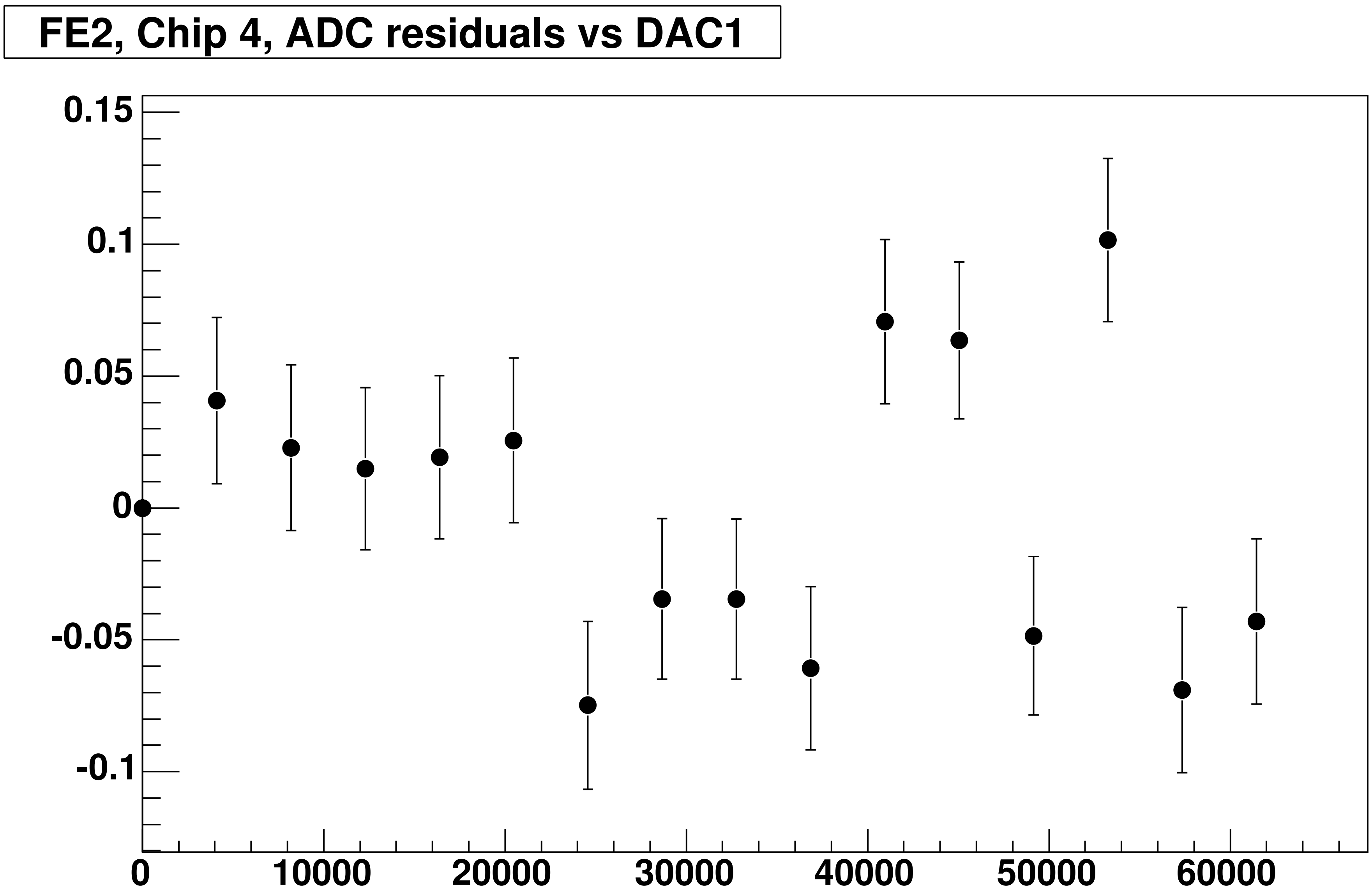

FE2, Chip 4, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 4, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

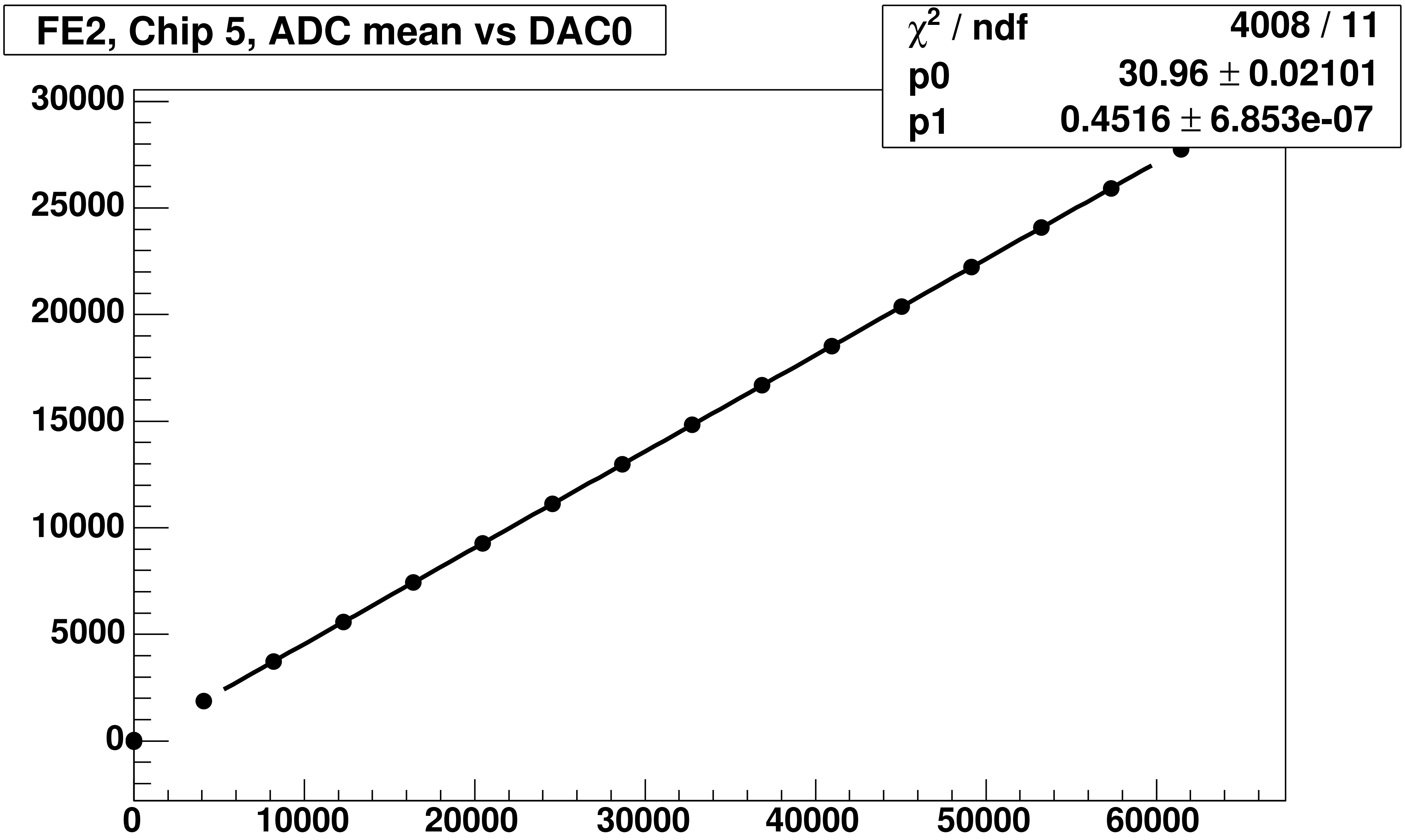

FE2, Chip 4, ADC mean vs DAC1
χ^2 / ndf 41.83 / 11
p0 34.42 ± 0.02034
p1 -1.035e-06 ± 5.601e-07
30
20
10
0
-10
0
10000
20000
30000
40000
50000
60000

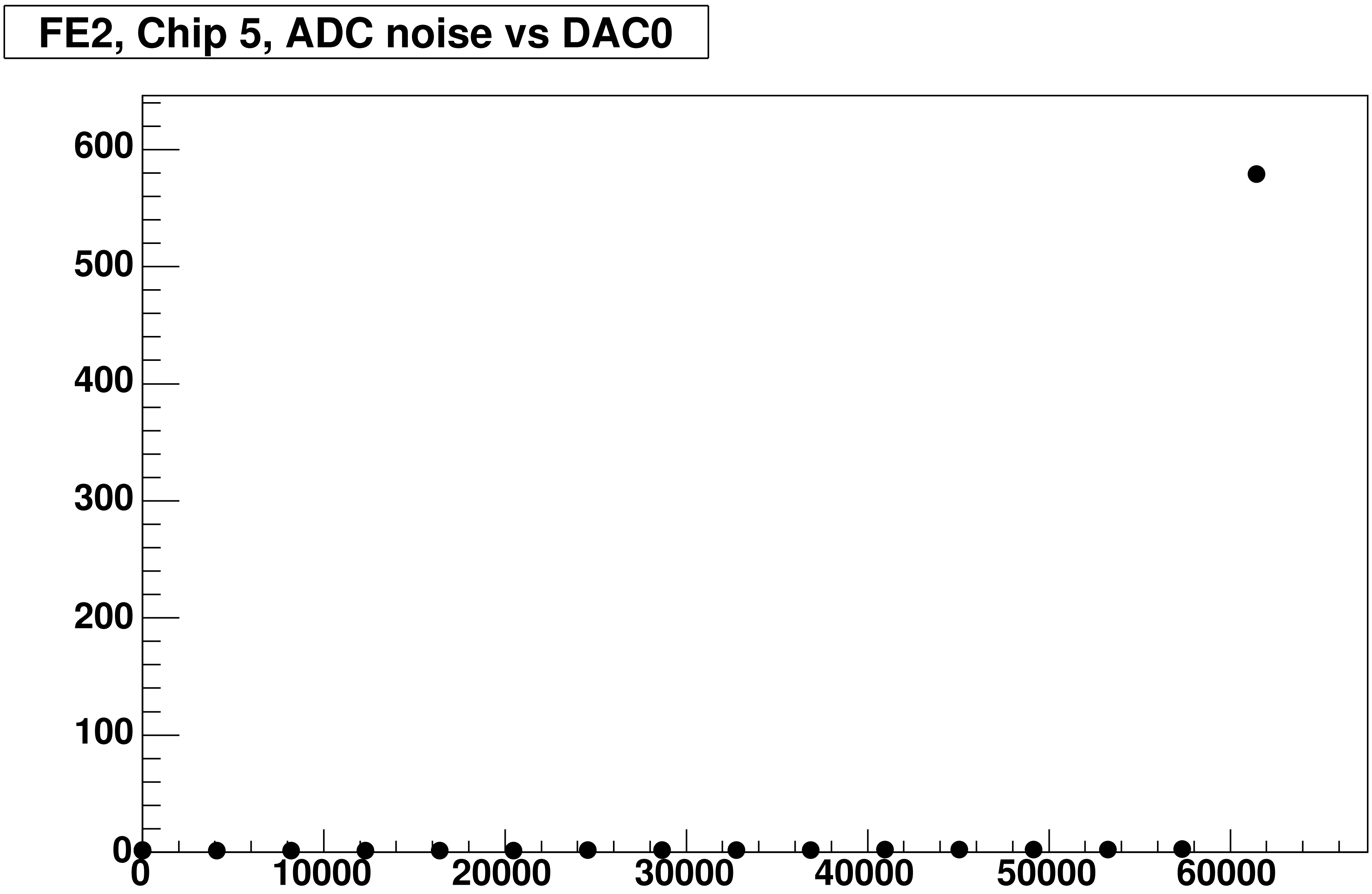


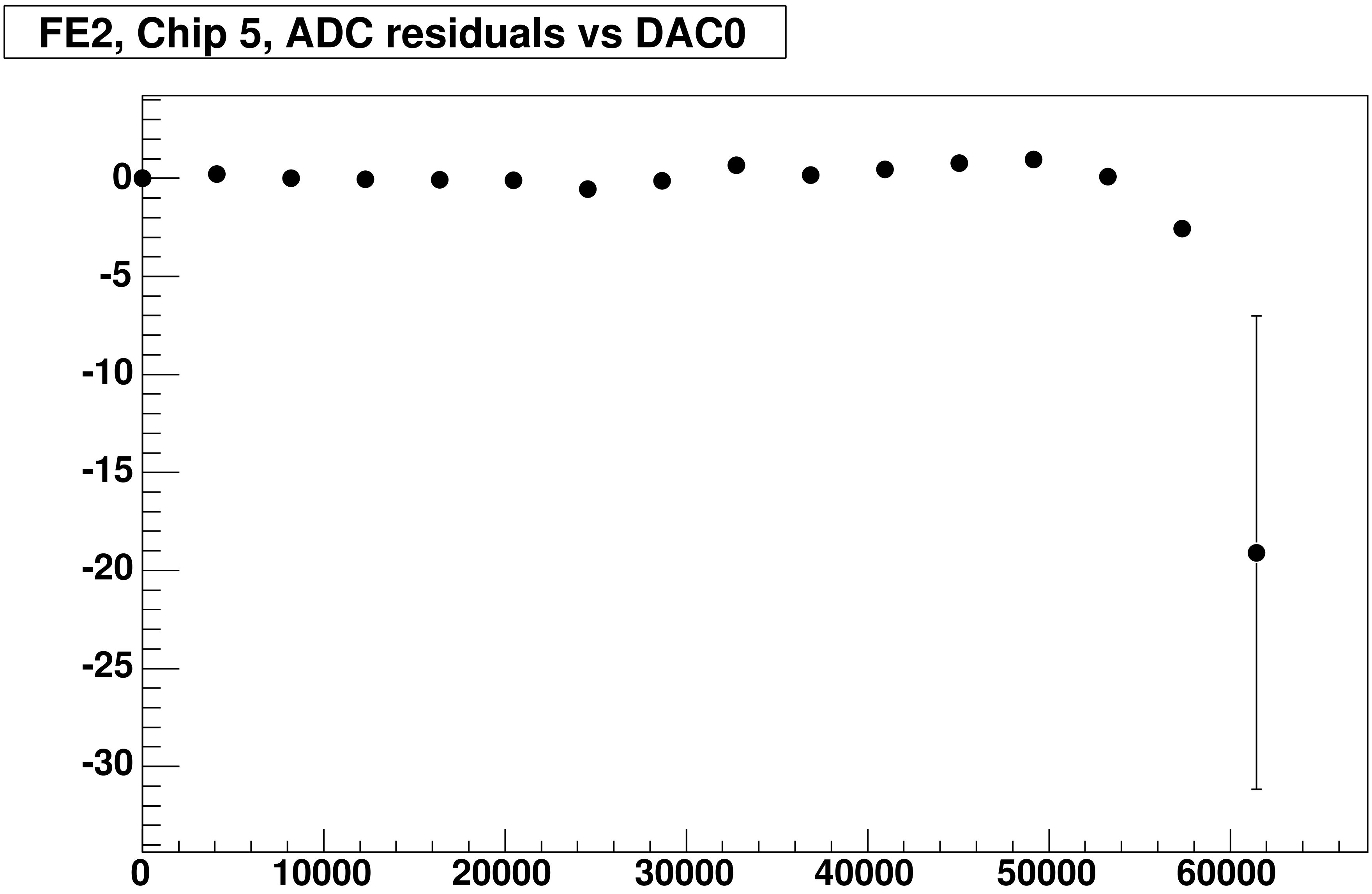
FE2, Chip 4, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

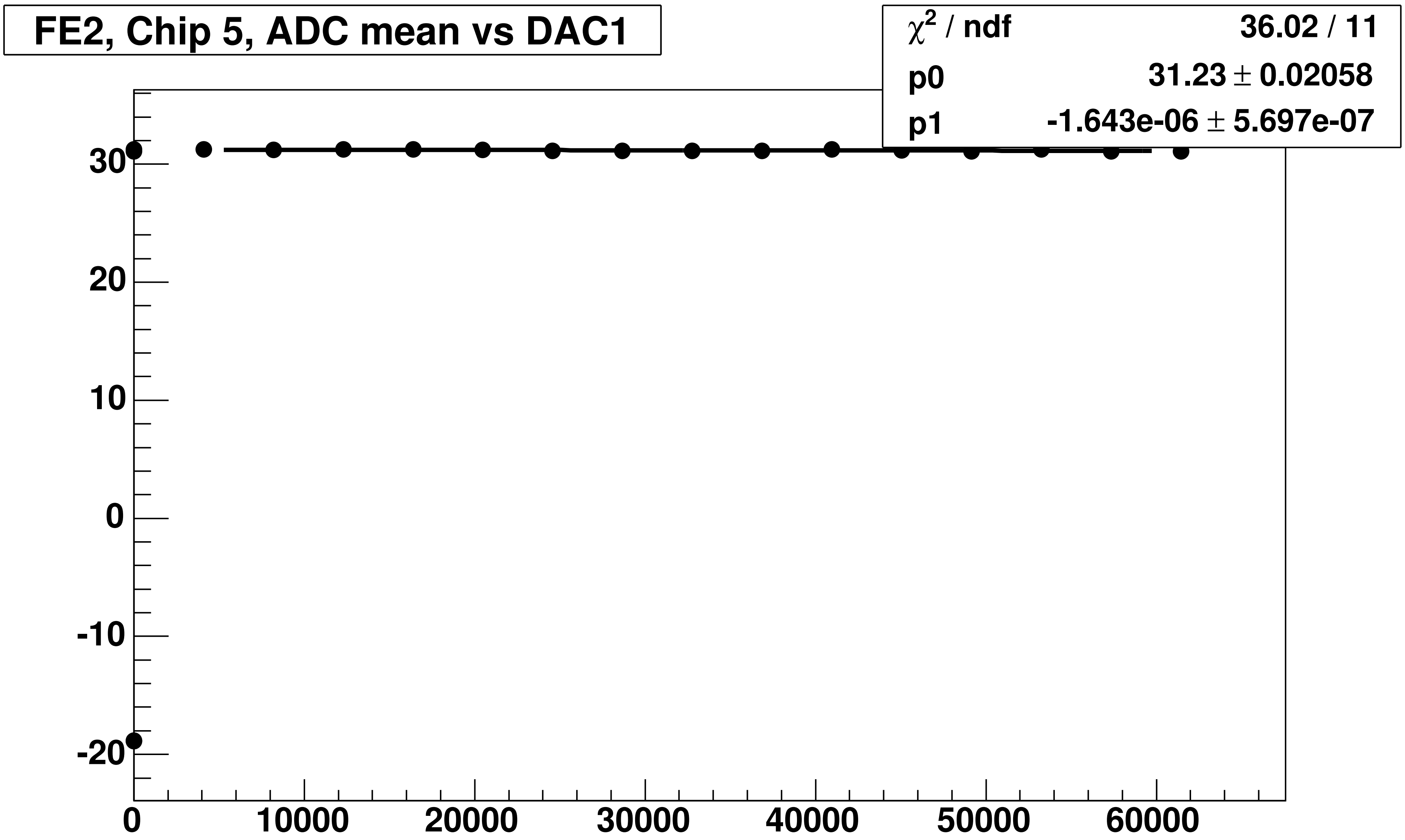


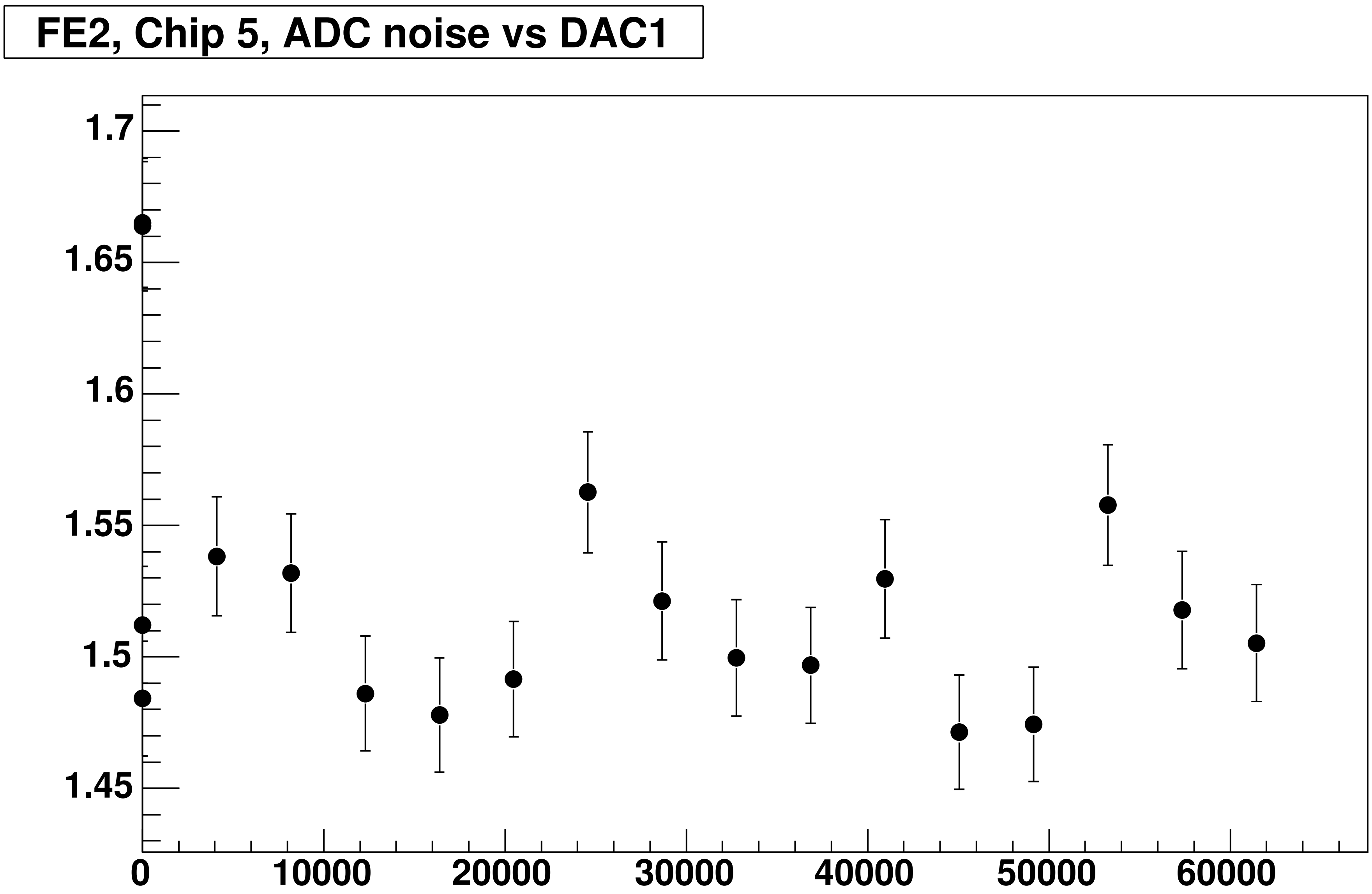
FE2, Chip 4, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

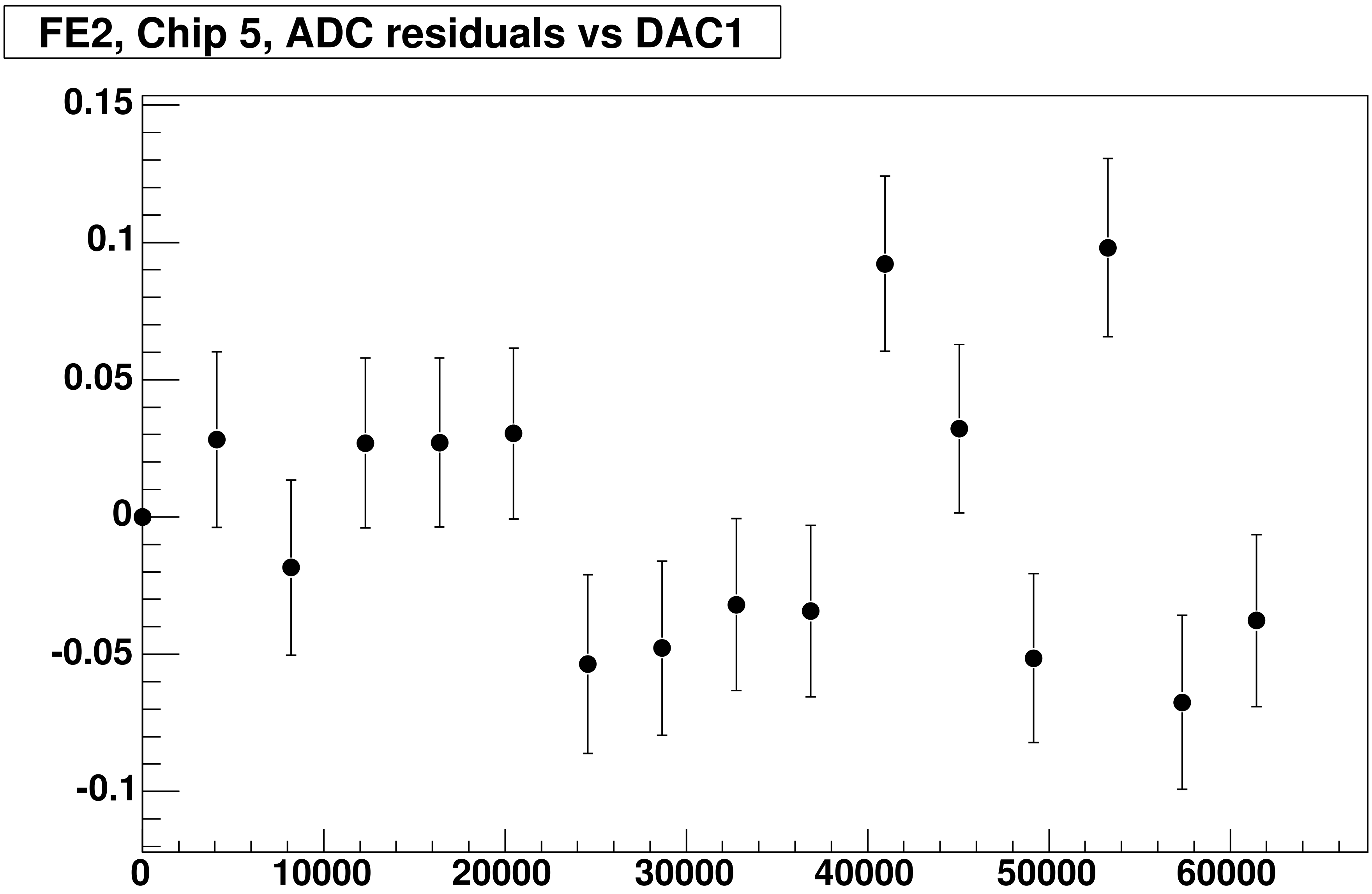

FE2, Chip 5, ADC mean vs DAC0
χ^2 / ndf 4008 / 11
p0 30.96 ± 0.02101
p1 0.4516 ± 6.853e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

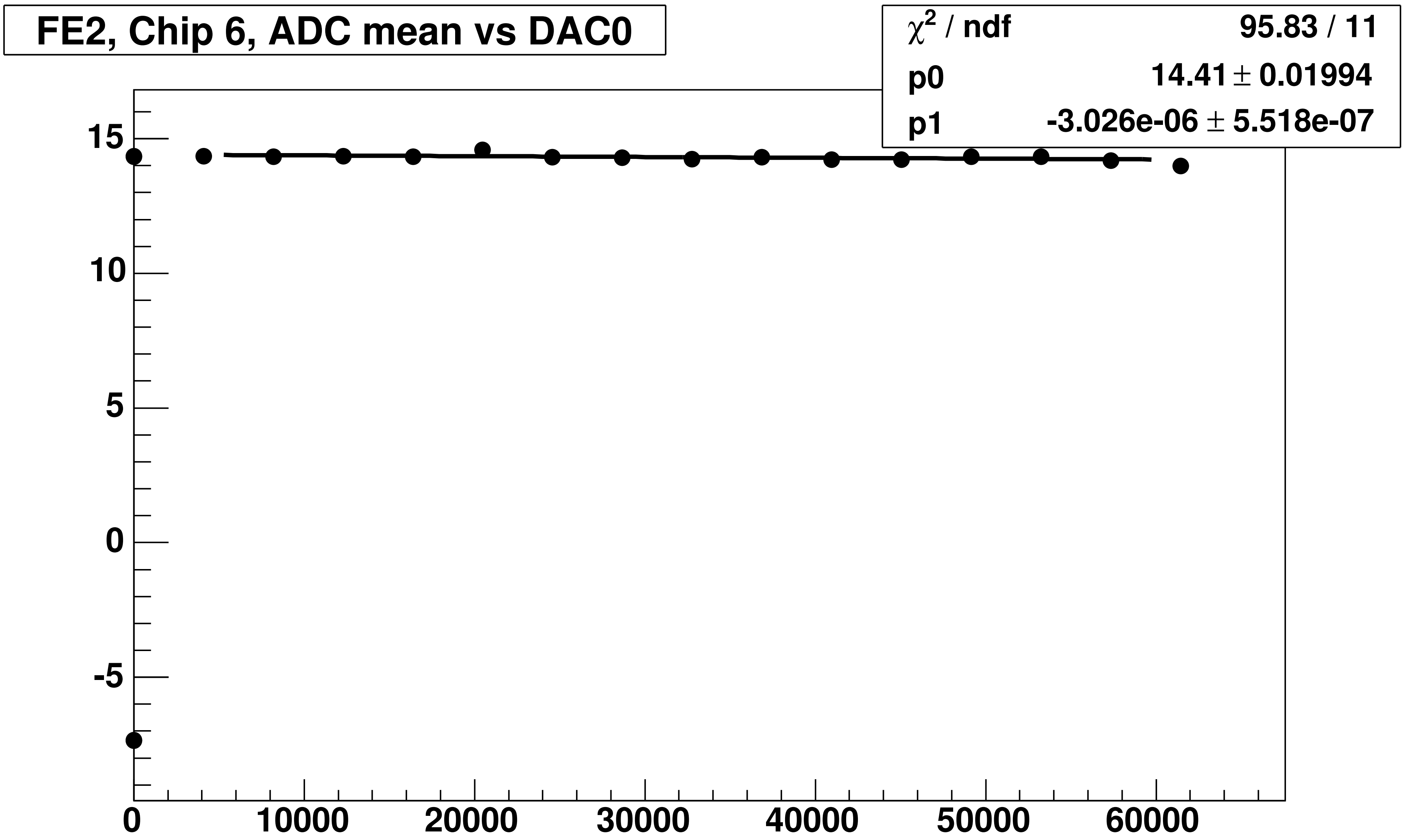

FE2, Chip 5, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 5, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

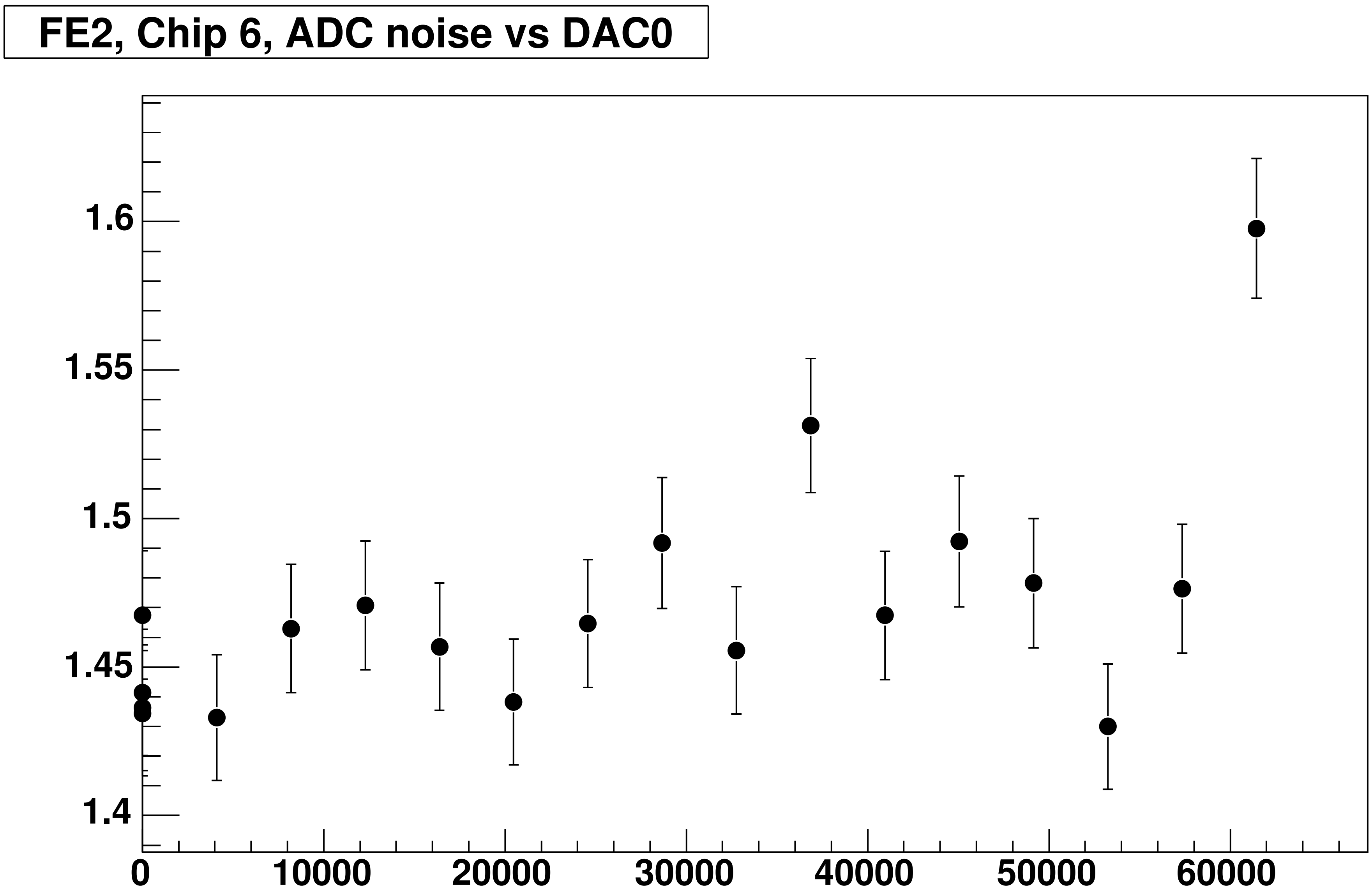

FE2, Chip 5, ADC mean vs DAC1
χ2 / ndf 36.02 / 11
p0 31.23 ± 0.02058
p1 -1.643e-06 ± 5.697e-07
30
20
10
0
-10
-20
0
10000
20000
30000
40000
50000
60000


FE2, Chip 5, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

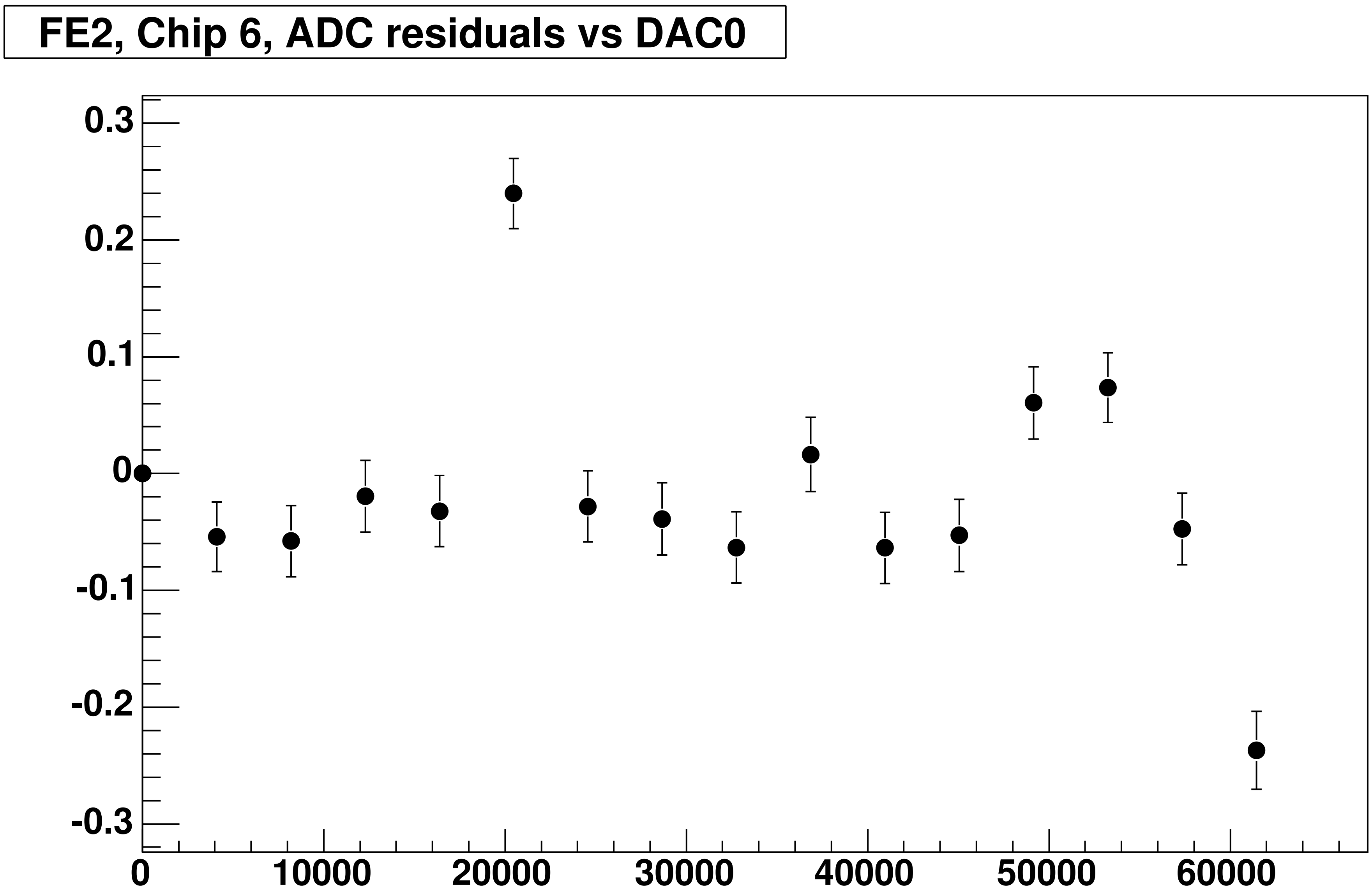

FE2, Chip 5, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

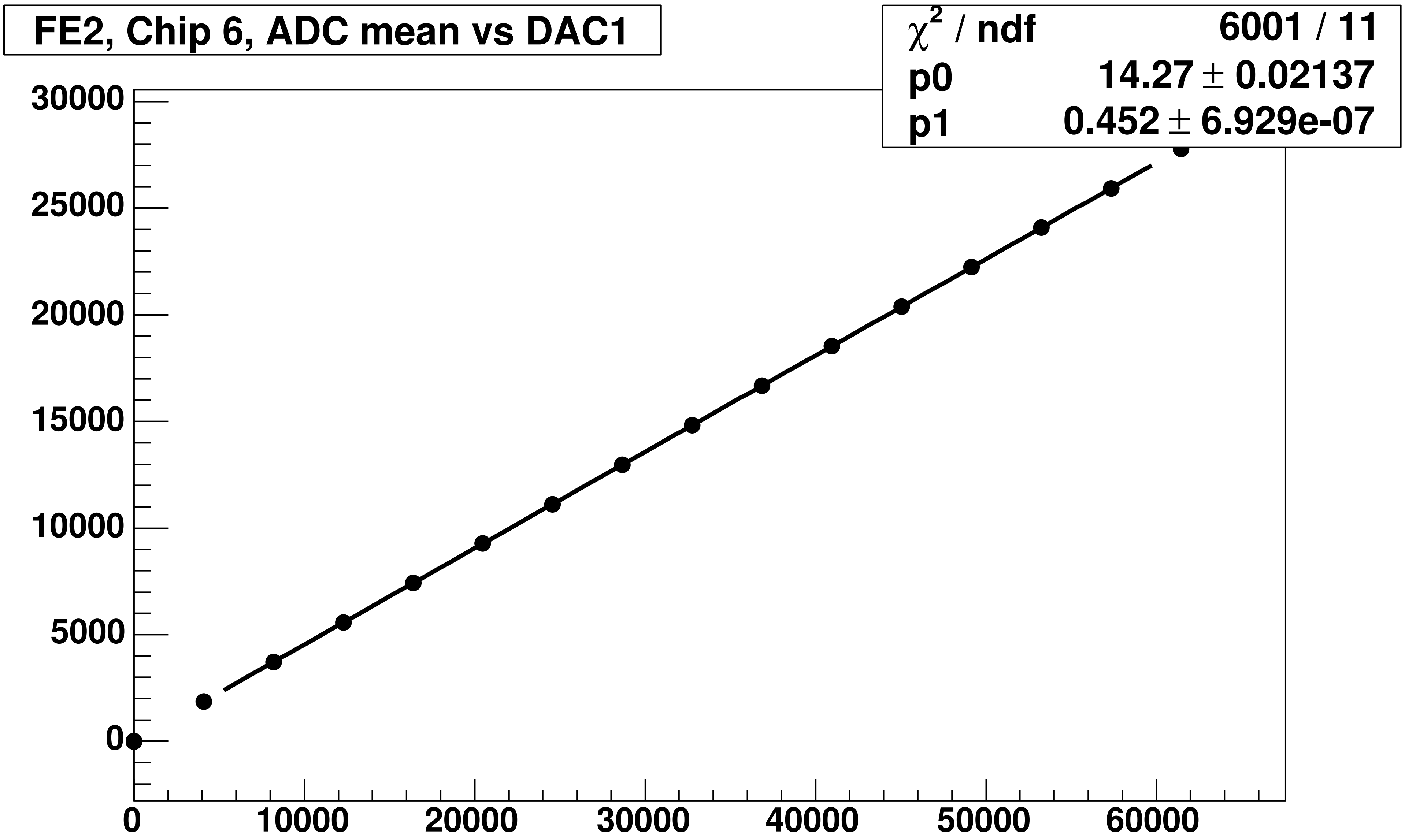


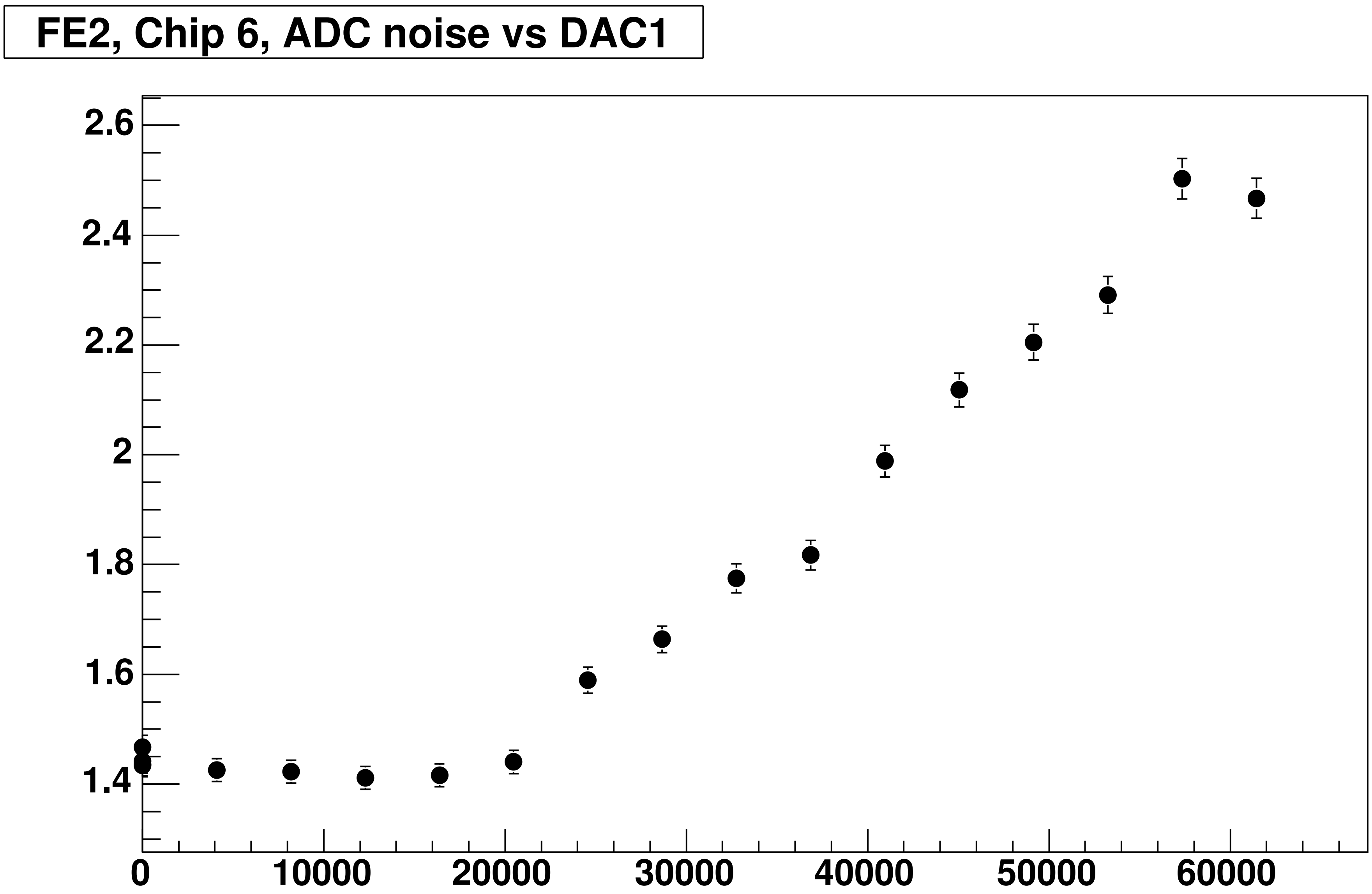
FE2, Chip 6, ADC mean vs DAC0
χ^2 / ndf 95.83 / 11
p0 14.41 ± 0.01994
p1 -3.026e-06 ± 5.518e-07
15
10
5
0
-5
0
10000
20000
30000
40000
50000
60000

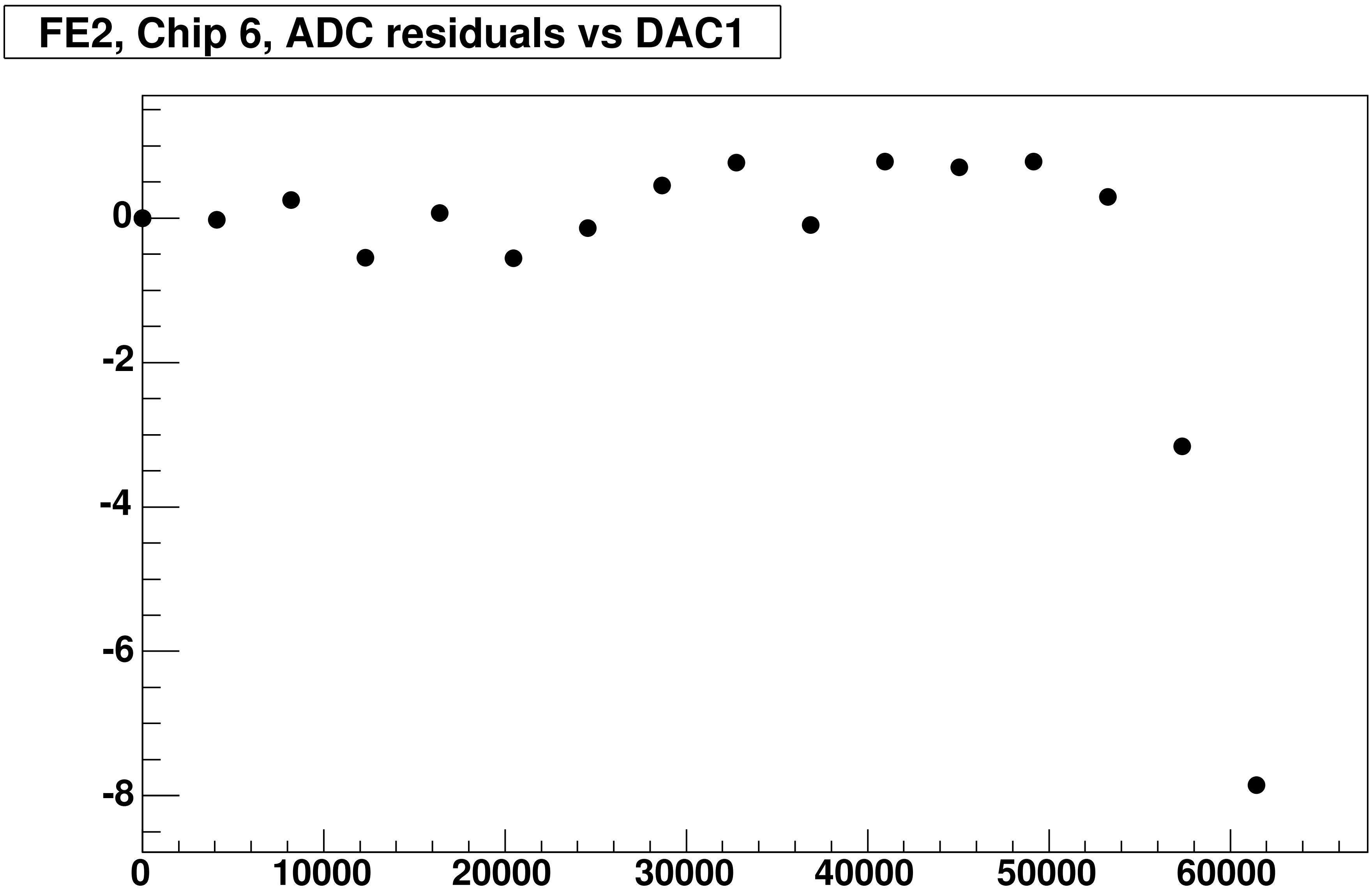


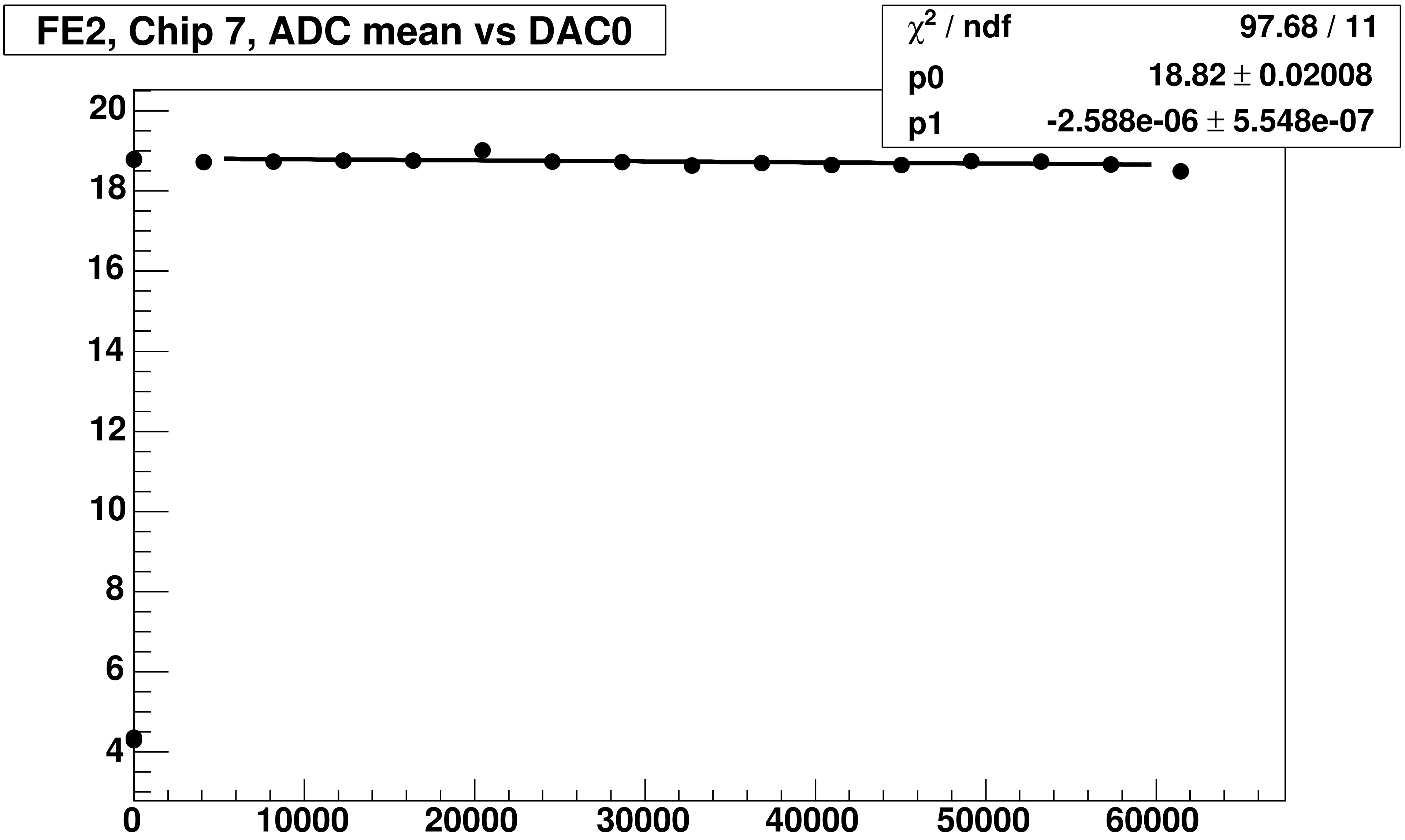
FE2, Chip 6, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


FE2, 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

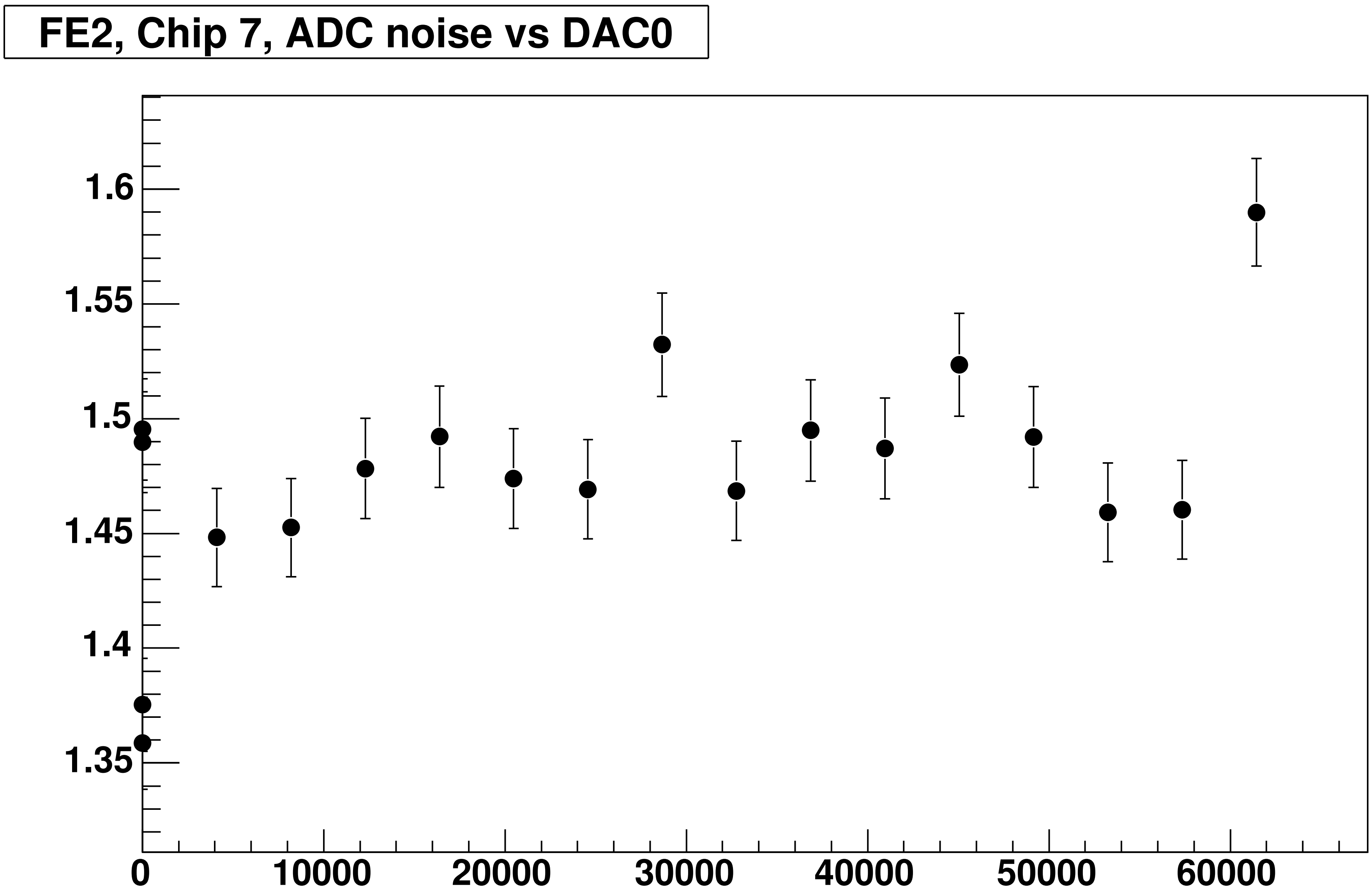

FE2, Chip 6, ADC mean vs DAC1
χ^2 / ndf 6001 / 11
p0 14.27 ± 0.02137
p1 0.452 ± 6.929e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

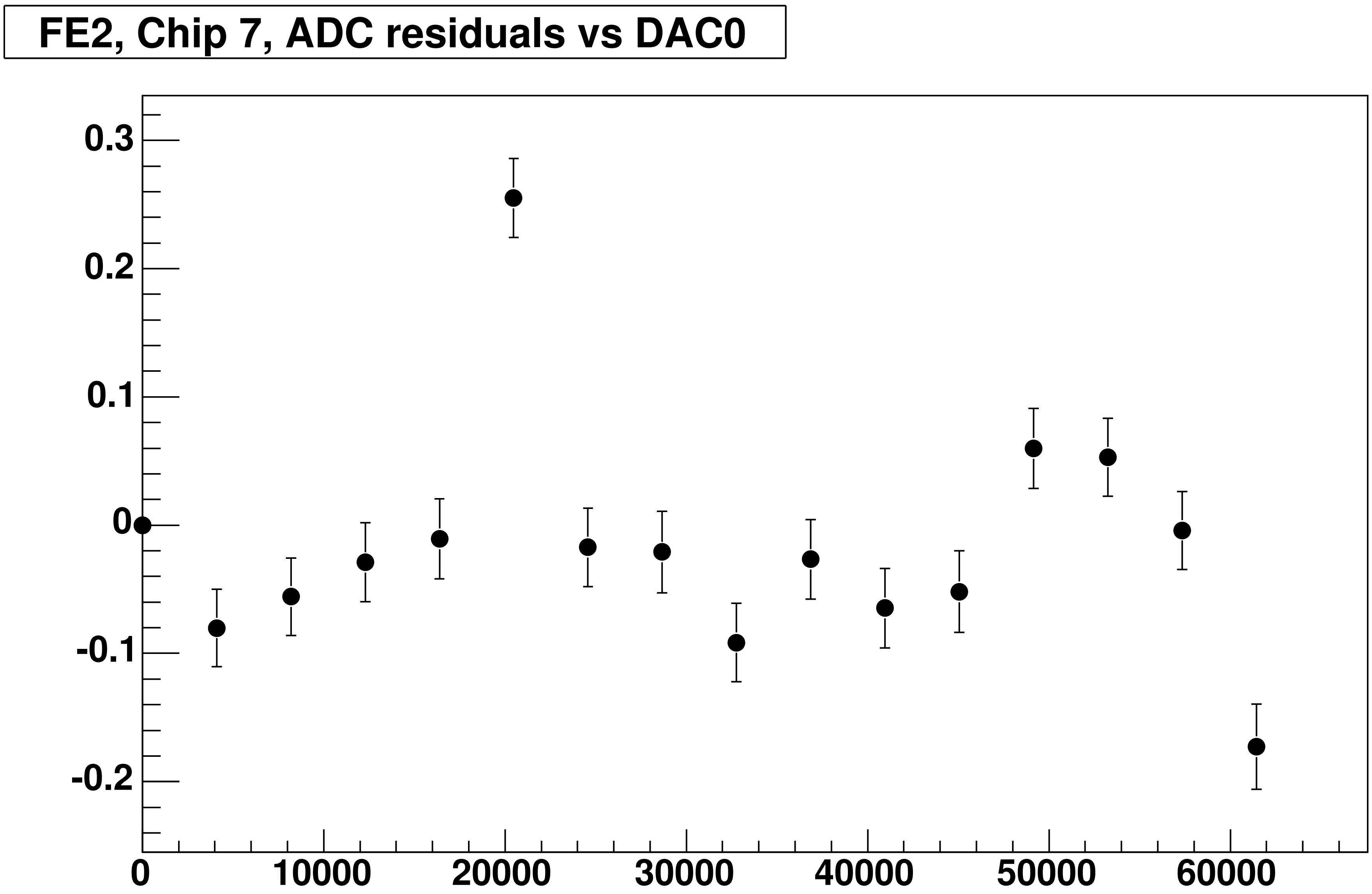

FE2, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

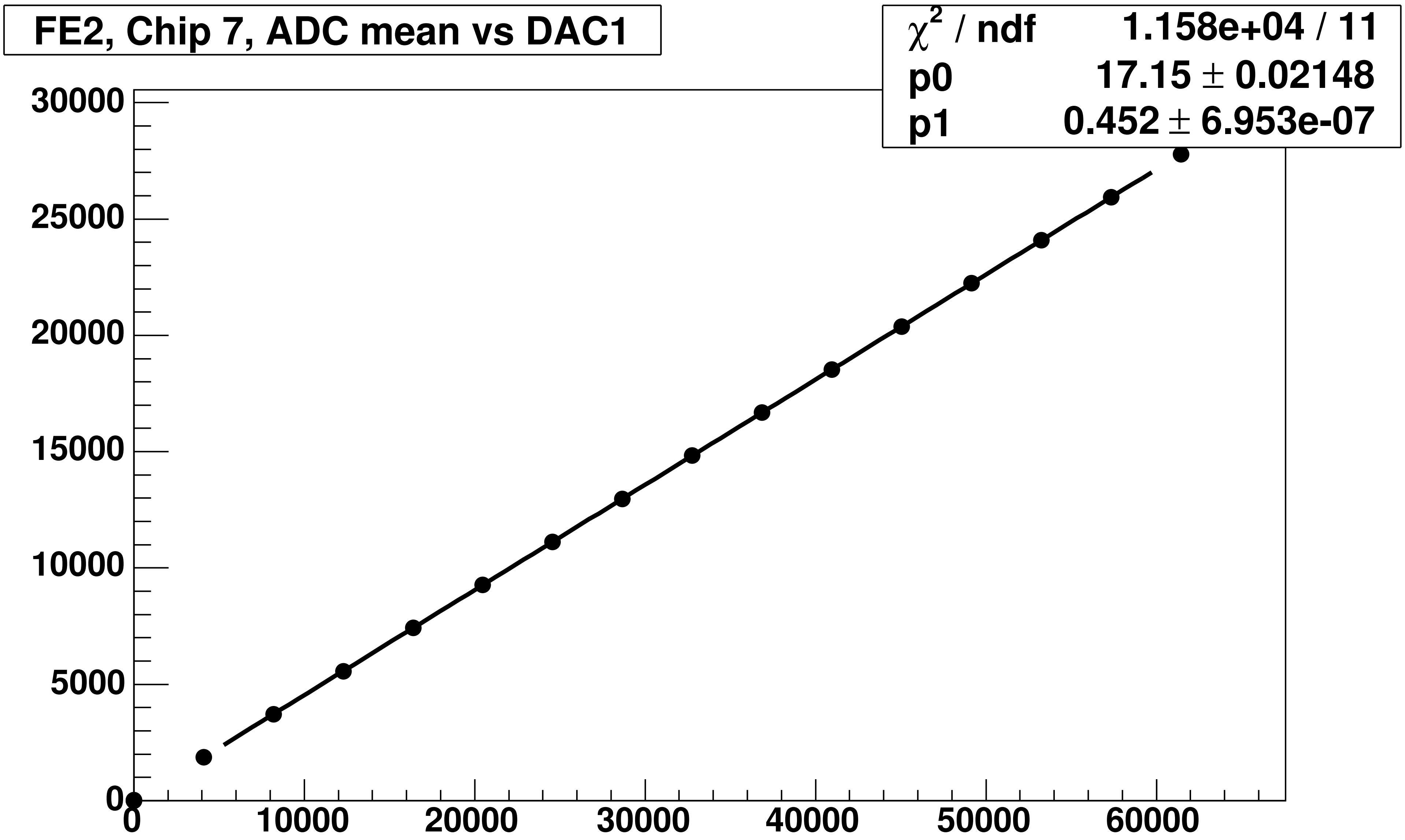

FE2, Chip 6, ADC residuals vs DAC1
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000



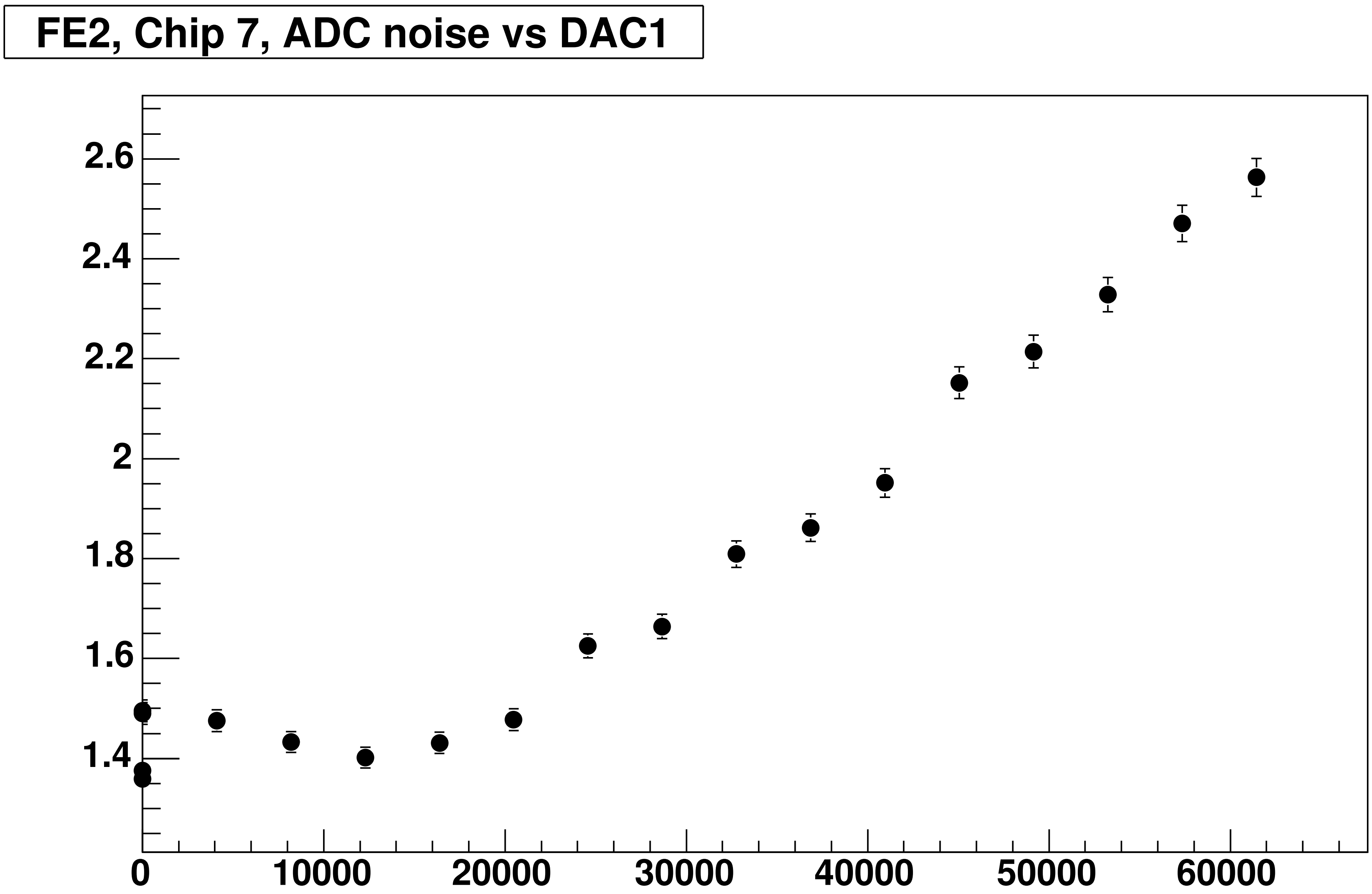
FE2, Chip 7, ADC mean vs DAC0
χ^2 / ndf 97.68 / 11
p0 18.82 ± 0.02008
p1 -2.588e-06 ± 5.548e-07
20
18
16
14
12
10
8
6
4
0
10000
20000
30000
40000
50000
60000

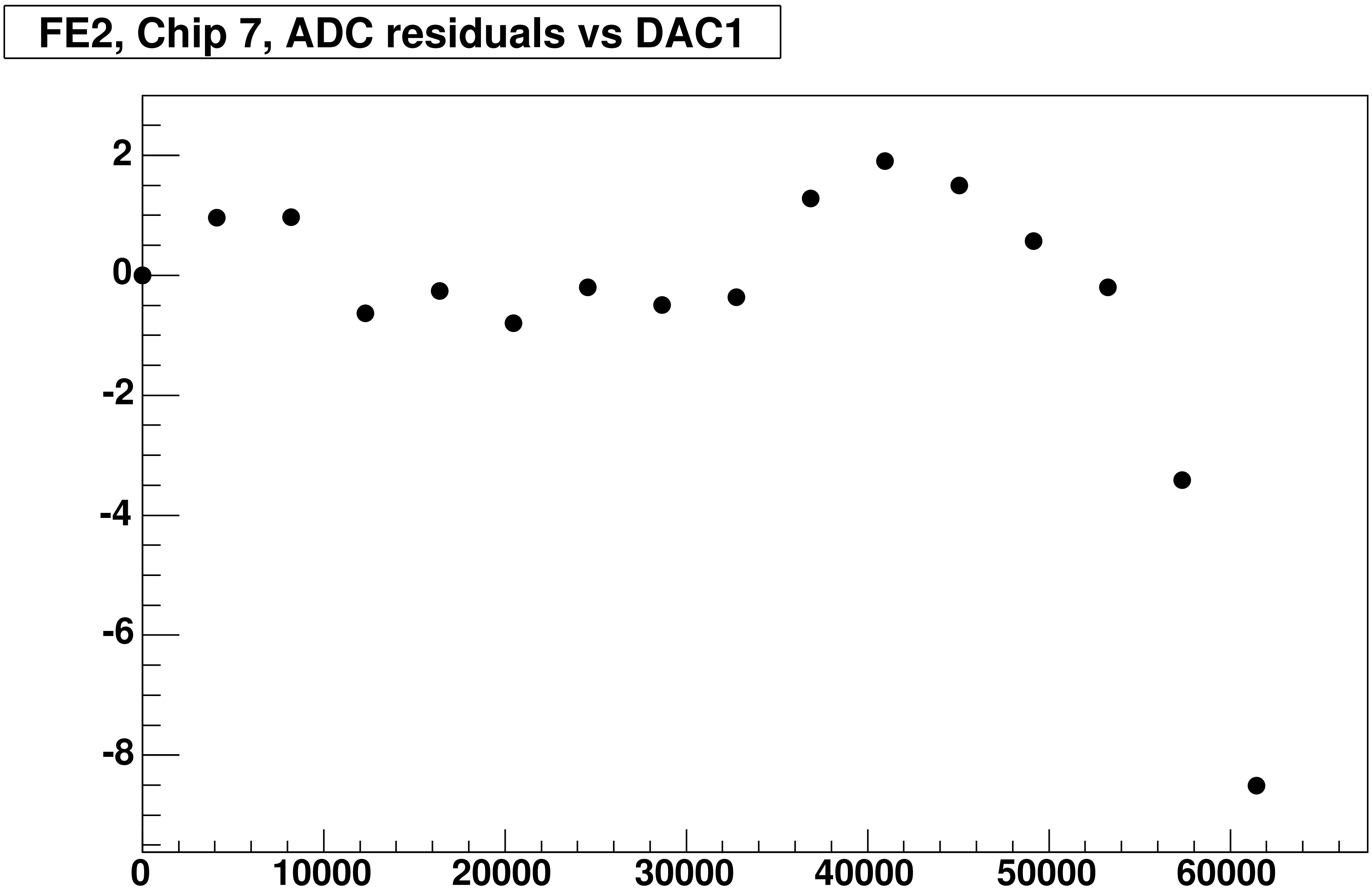

FE2, Chip 7, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

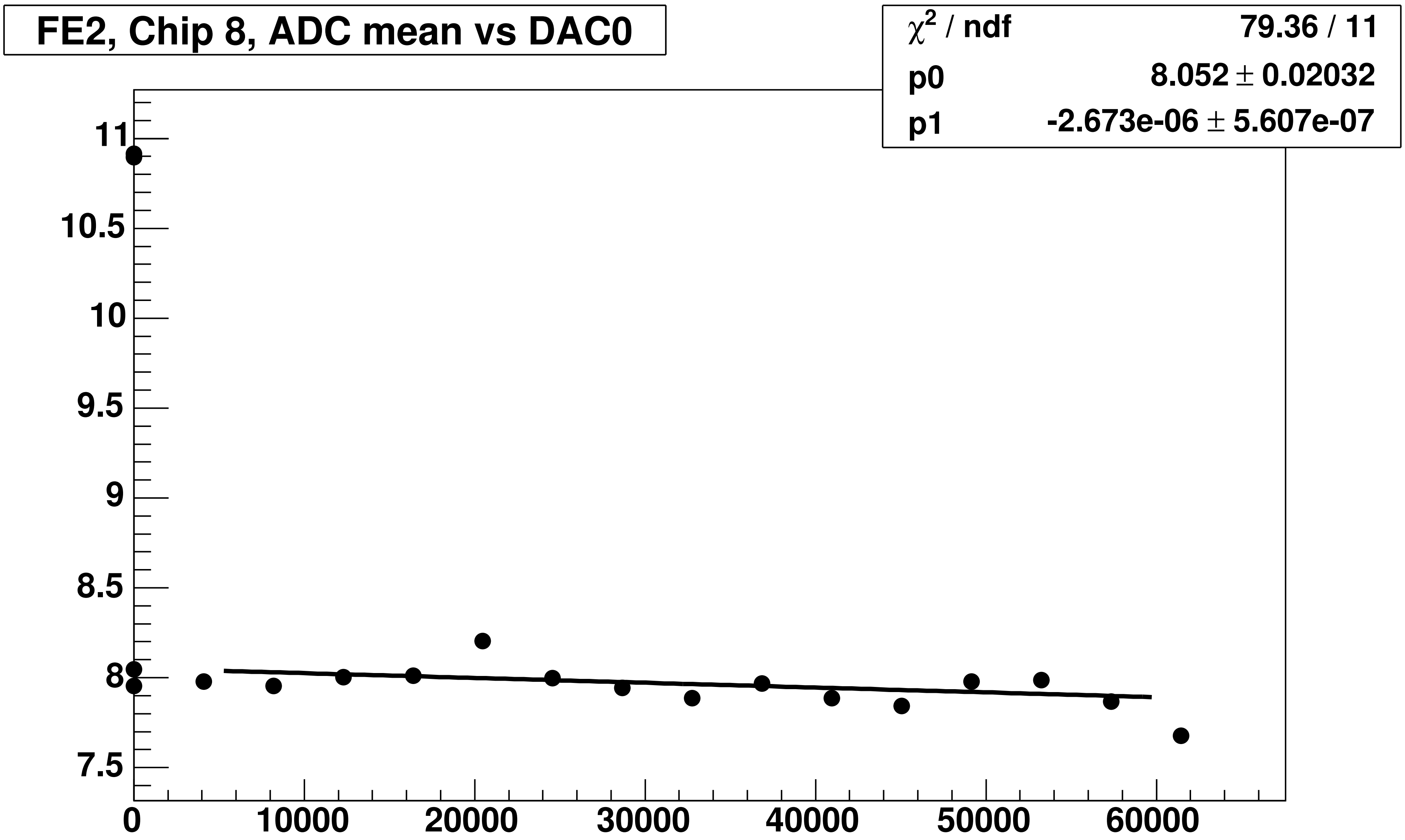

FE2, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

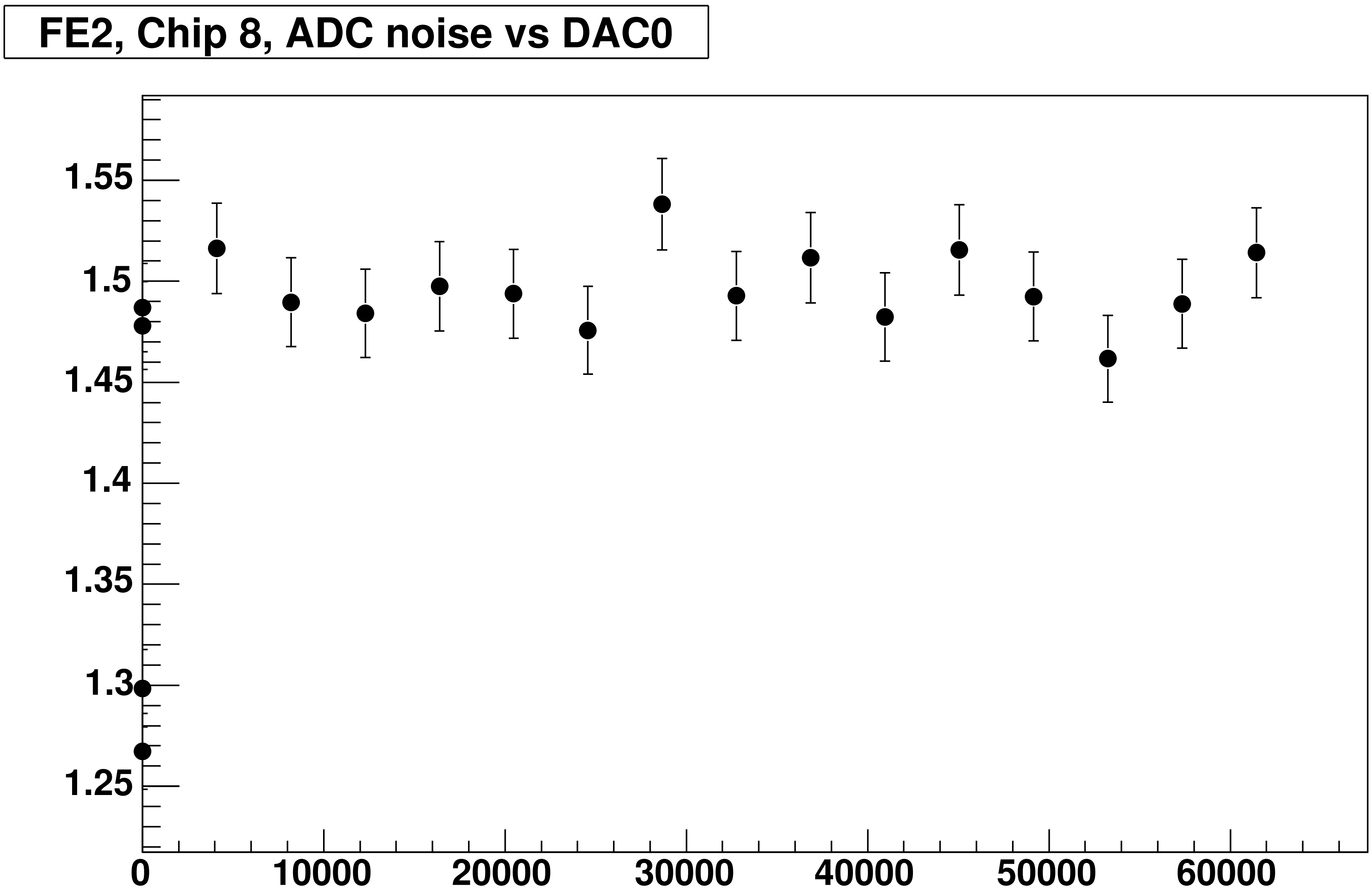


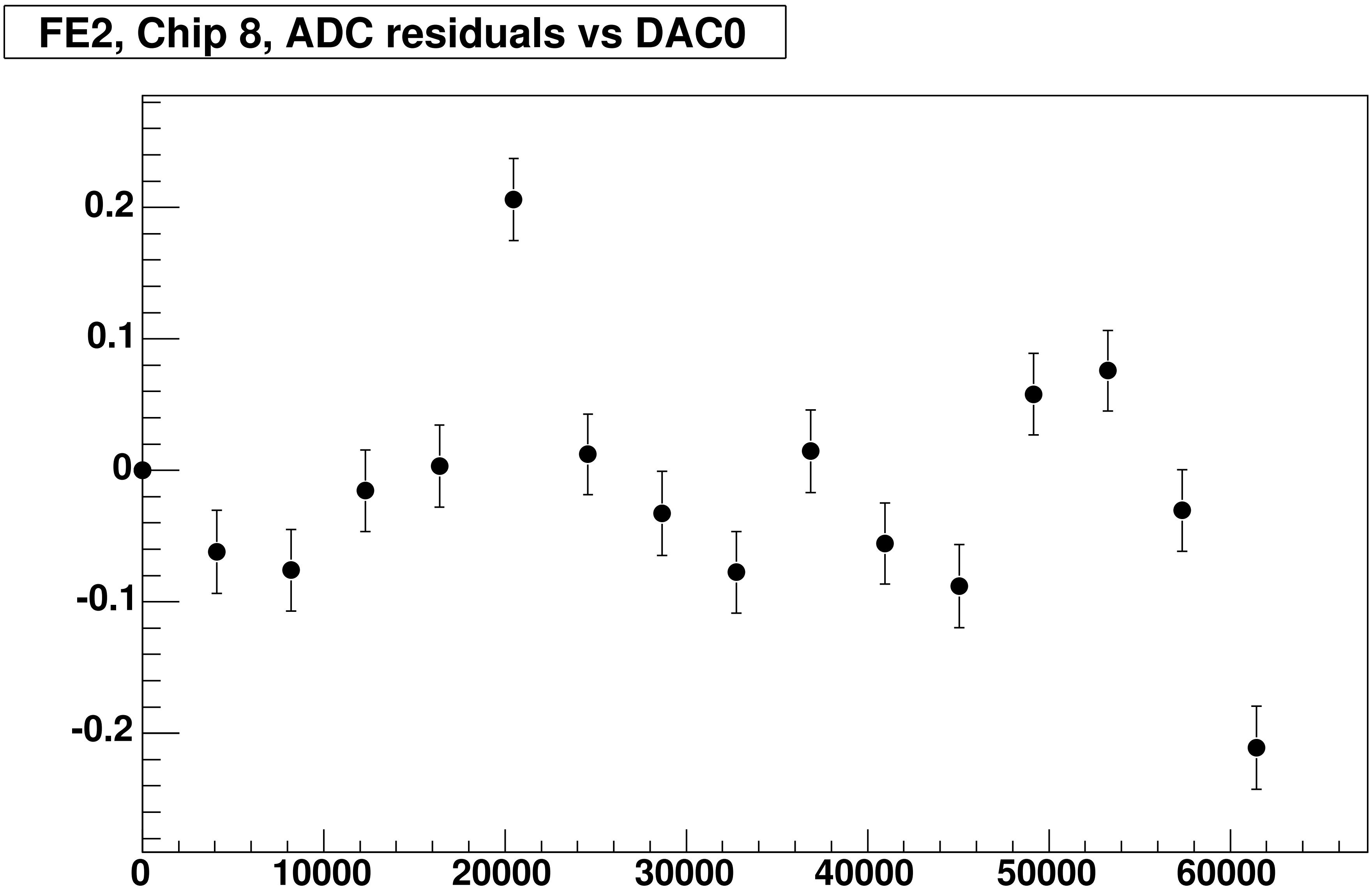
FE2, Chip 7, ADC mean vs DAC1
χ2 / ndf 1.158e+04 / 11
p0 17.15 ± 0.02148
p1 0.452 ± 6.953e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

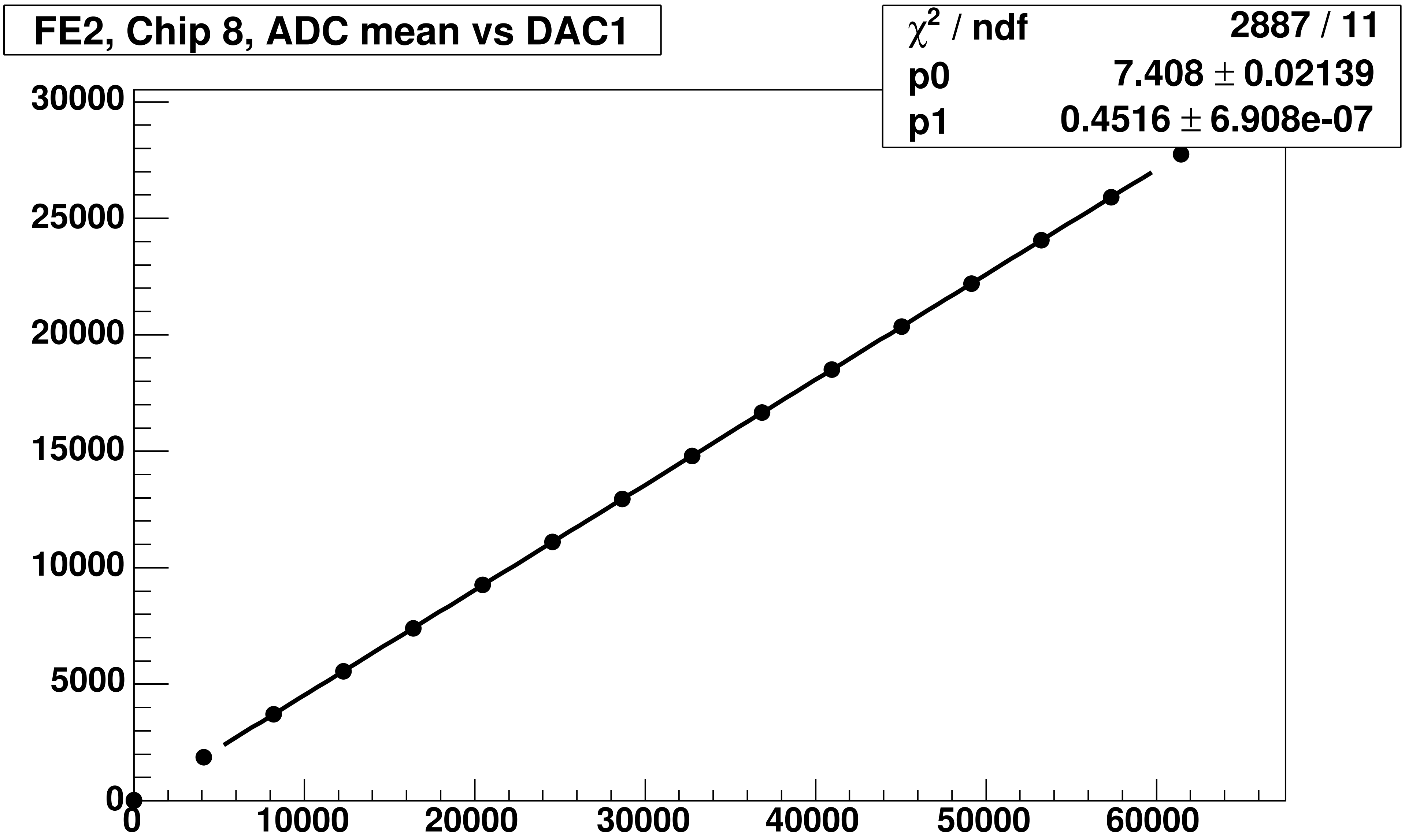

FE2, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

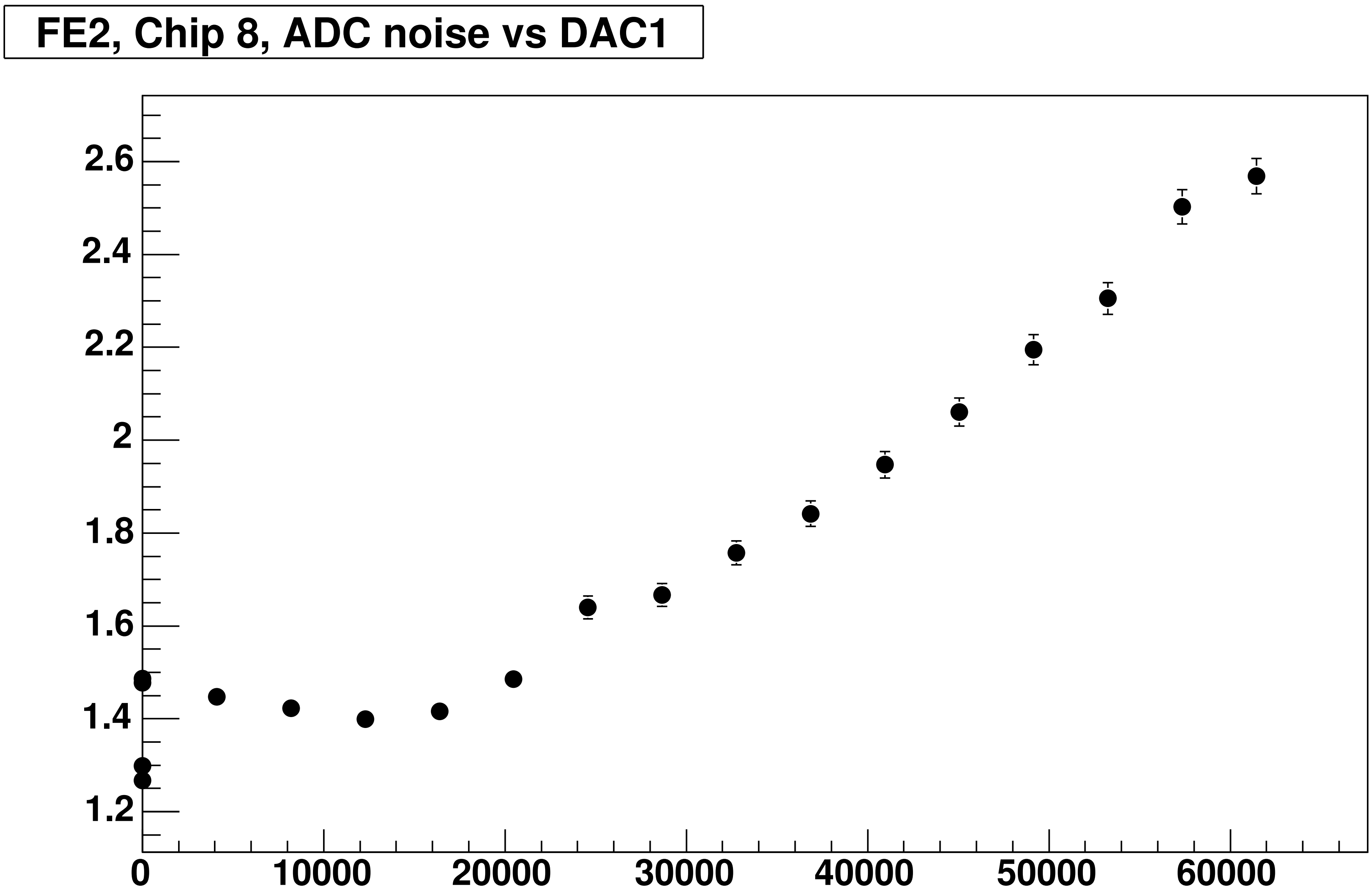

FE2, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

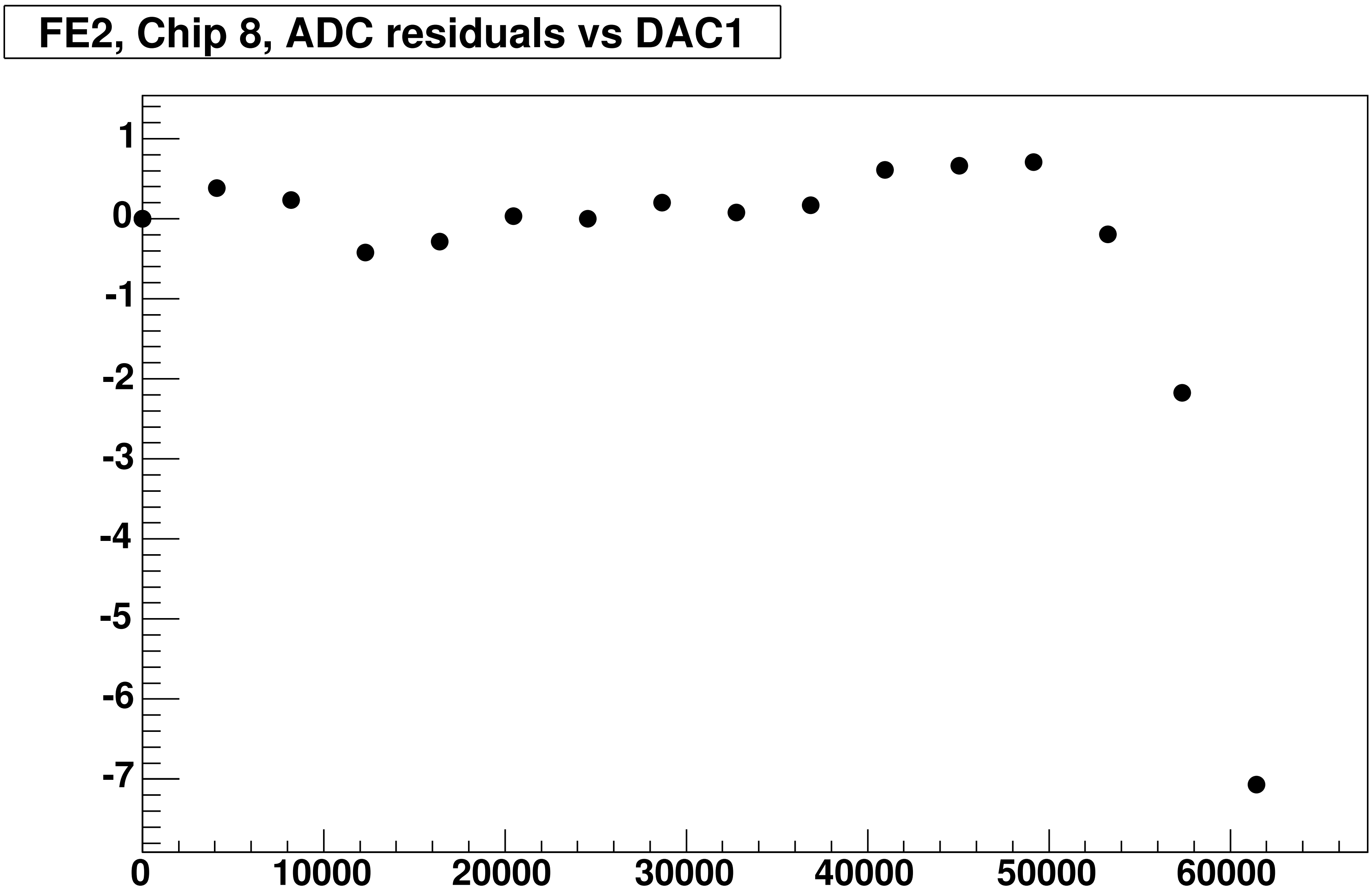

FE2, Chip 8, ADC mean vs DAC0
χ^2 / ndf 79.36 / 11
p0 8.052 ± 0.02032
p1 -2.673e-06 ± 5.607e-07
11
10.5
10
9.5
9
8.5
8
7.5
0
10000
20000
30000
40000
50000
60000

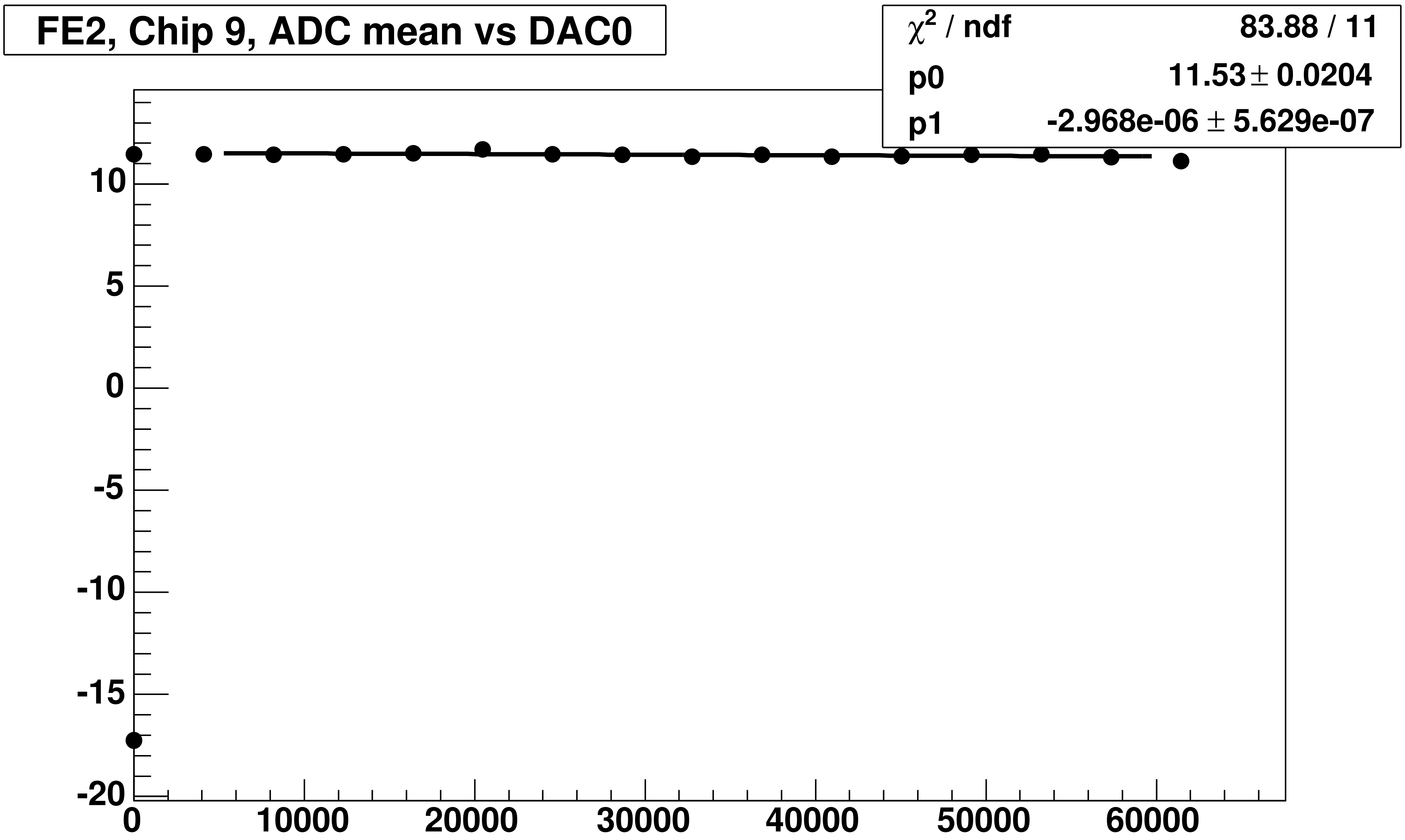

FE2, Chip 8, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000

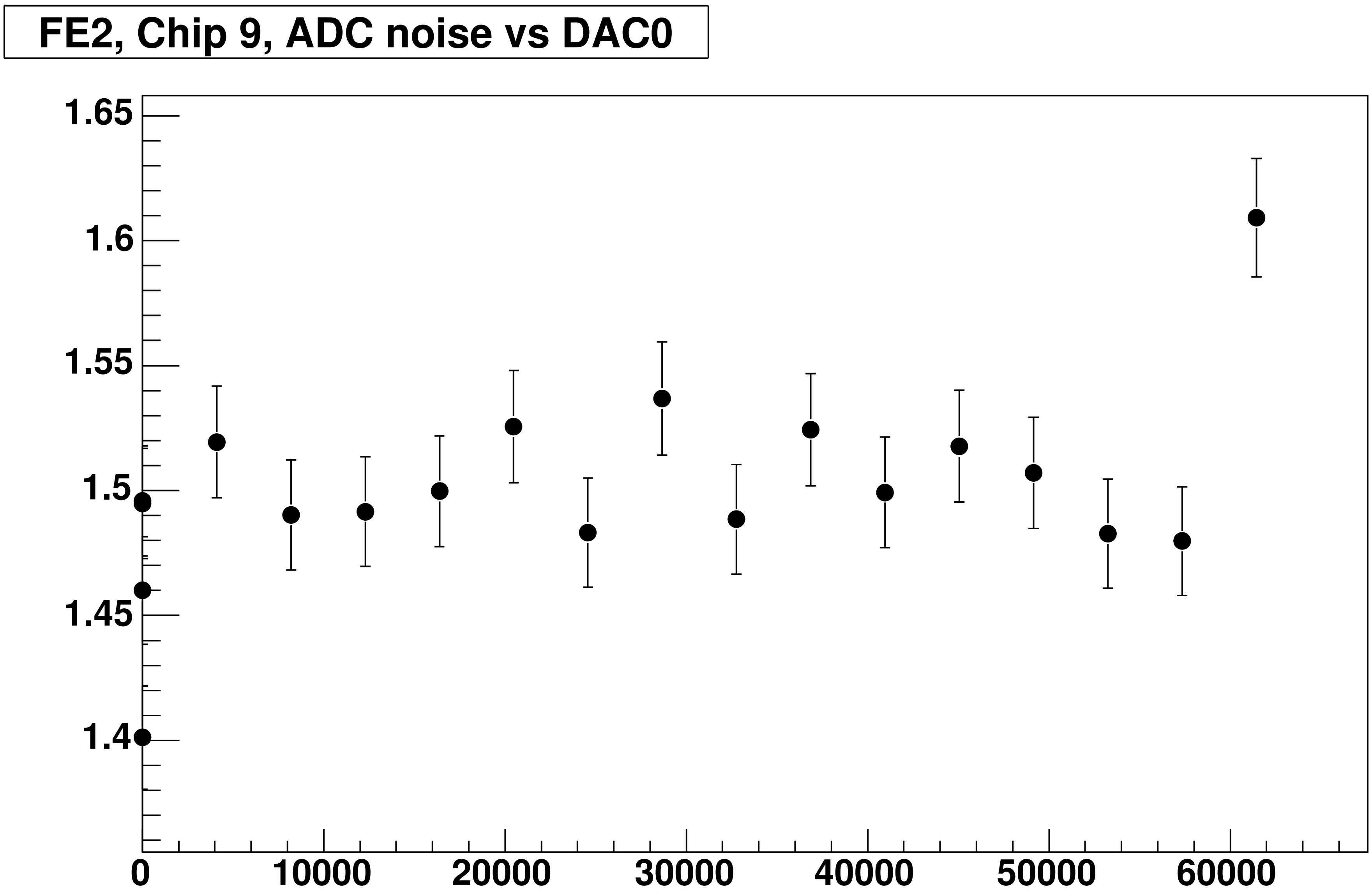

FE2, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

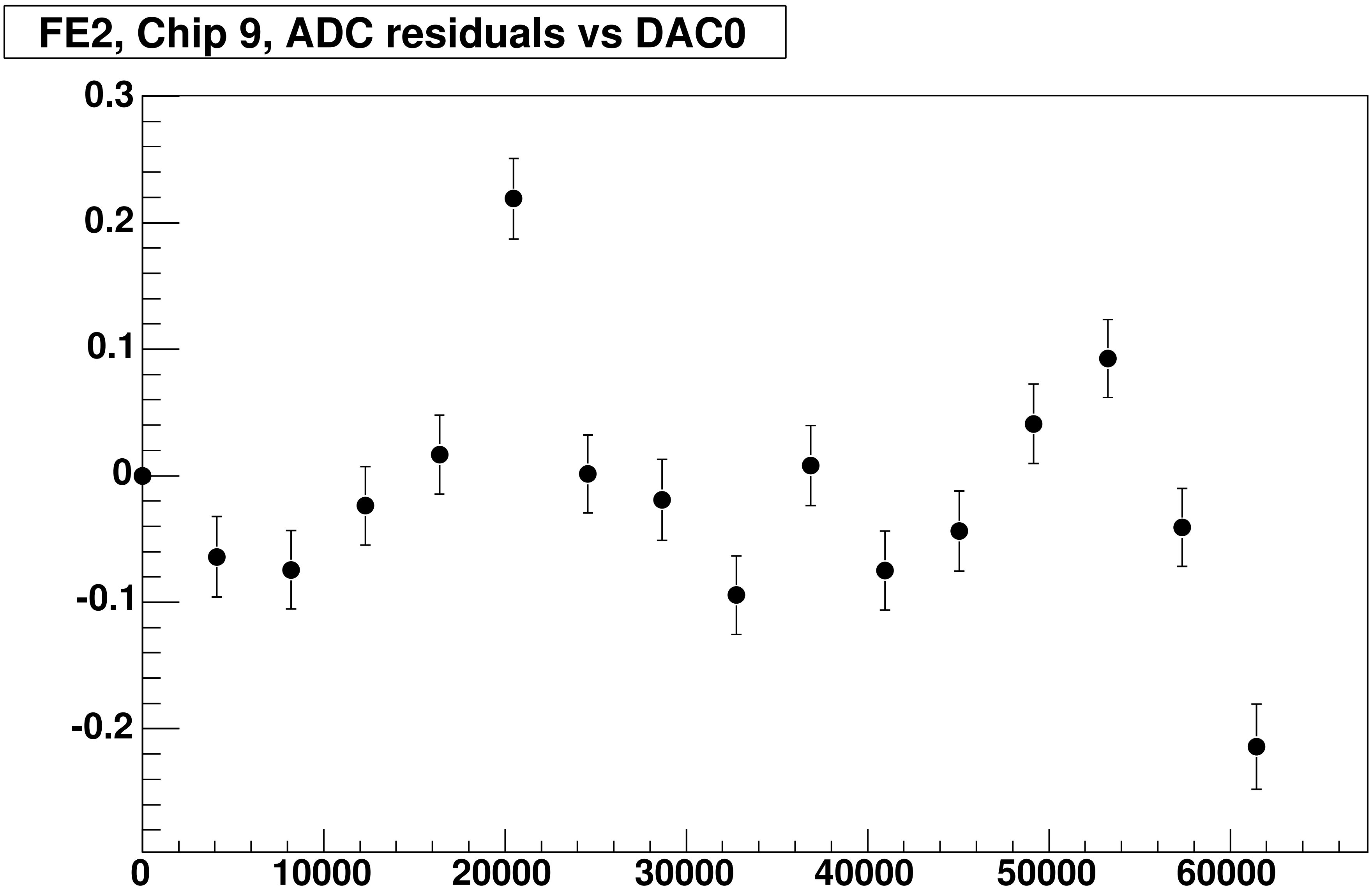

FE2, Chip 8, ADC mean vs DAC1
χ^2 / ndf 2887 / 11
p0 7.408 ± 0.02139
p1 0.4516 ± 6.908e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

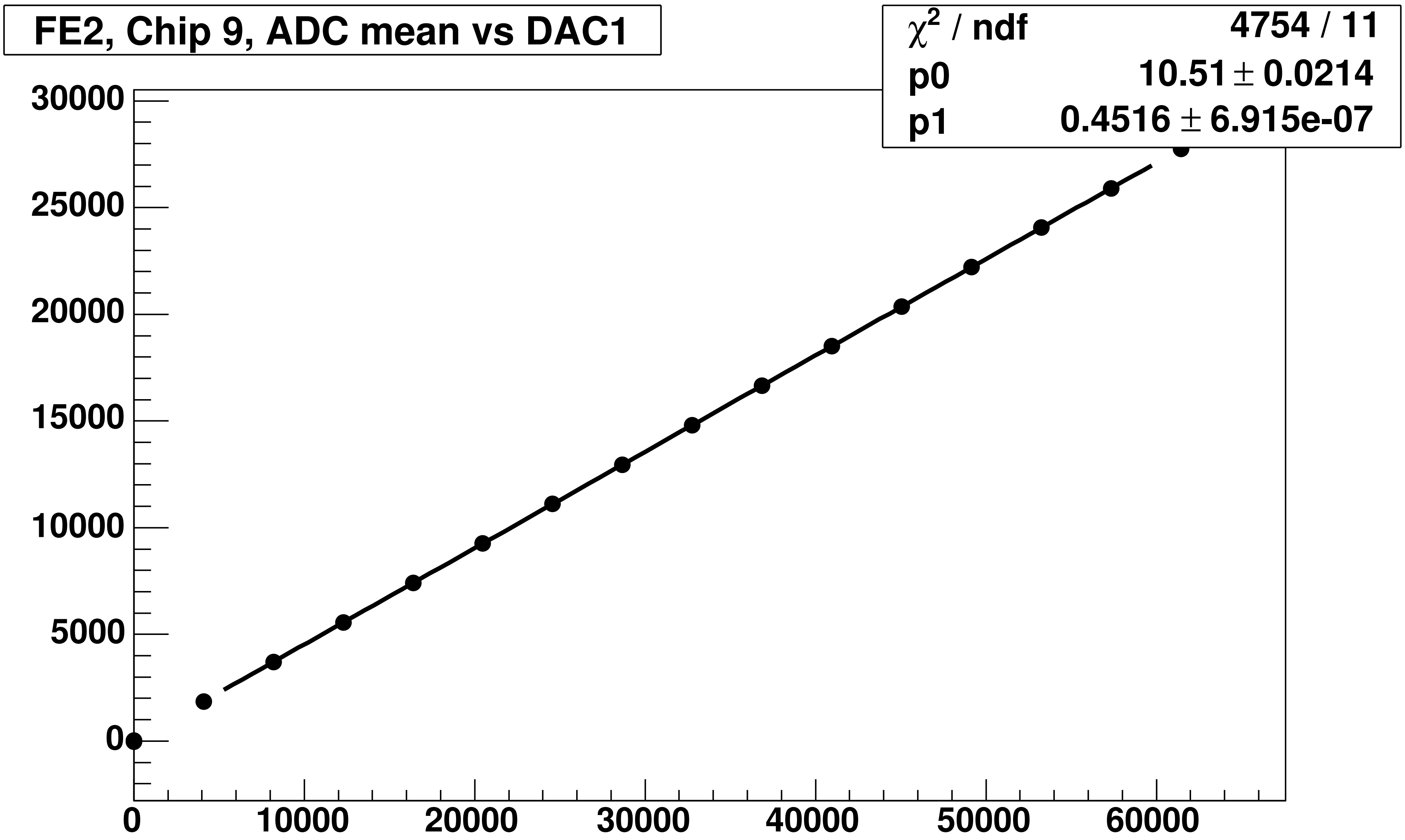

FE2, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000


FE2, Chip 9, ADC mean vs DAC0
χ^2 / ndf 83.88 / 11
p0 11.53 ± 0.0204
p1 -2.968e-06 ± 5.629e-07
10
5
0
-5
-10
-15
-20
0
10000
20000
30000
40000
50000
60000

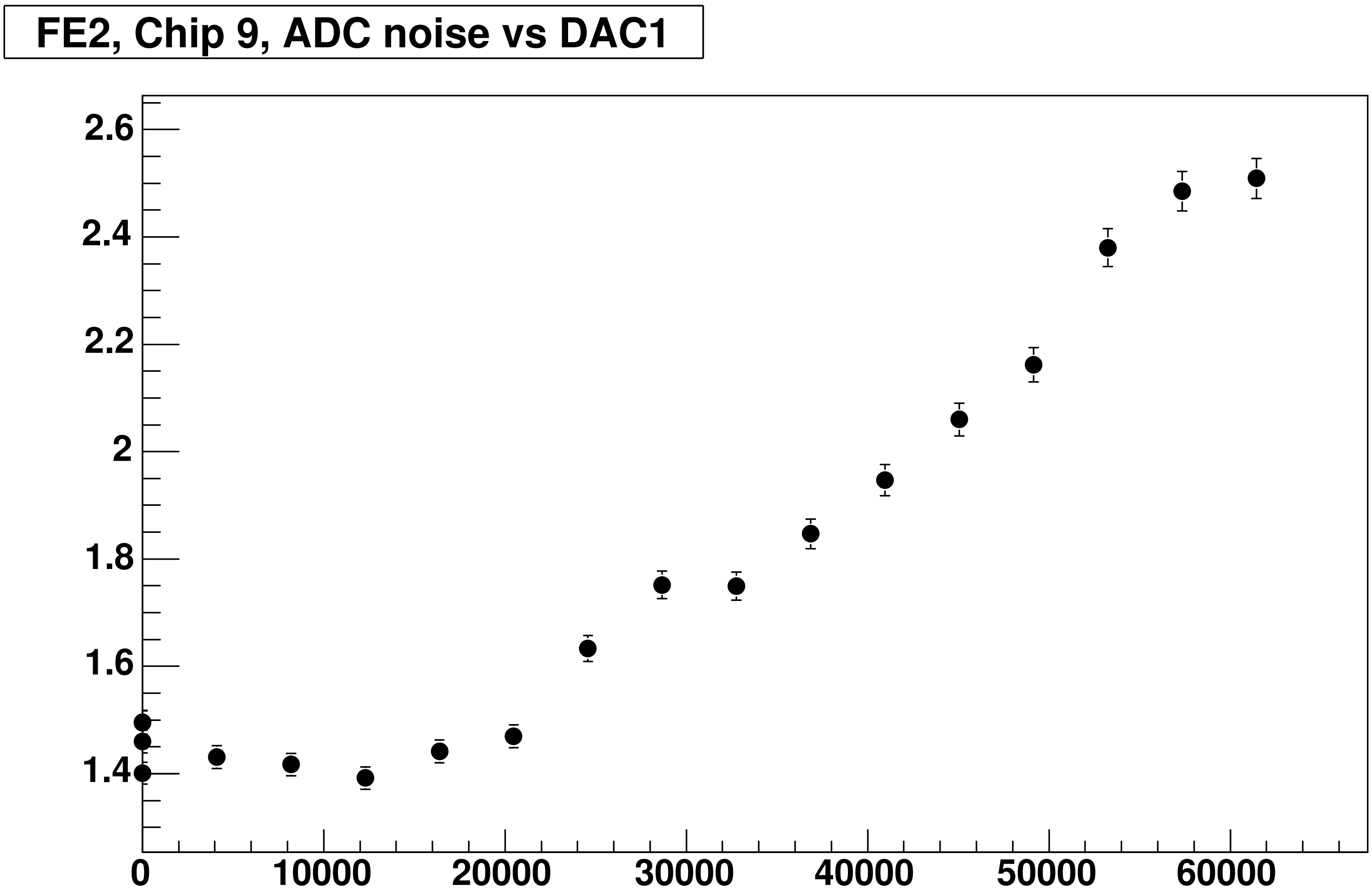

FE2, Chip 9, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000



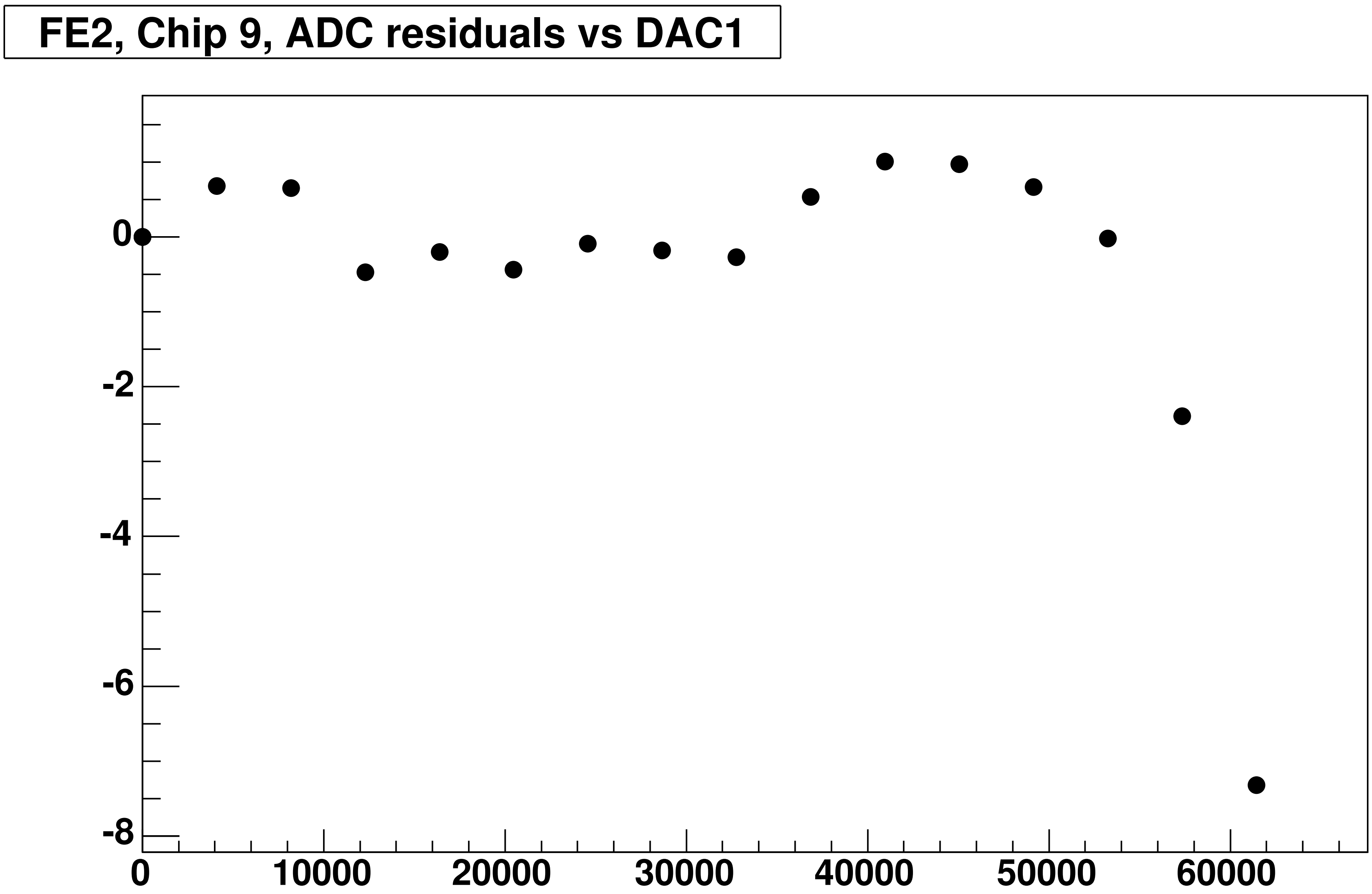
FE2, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



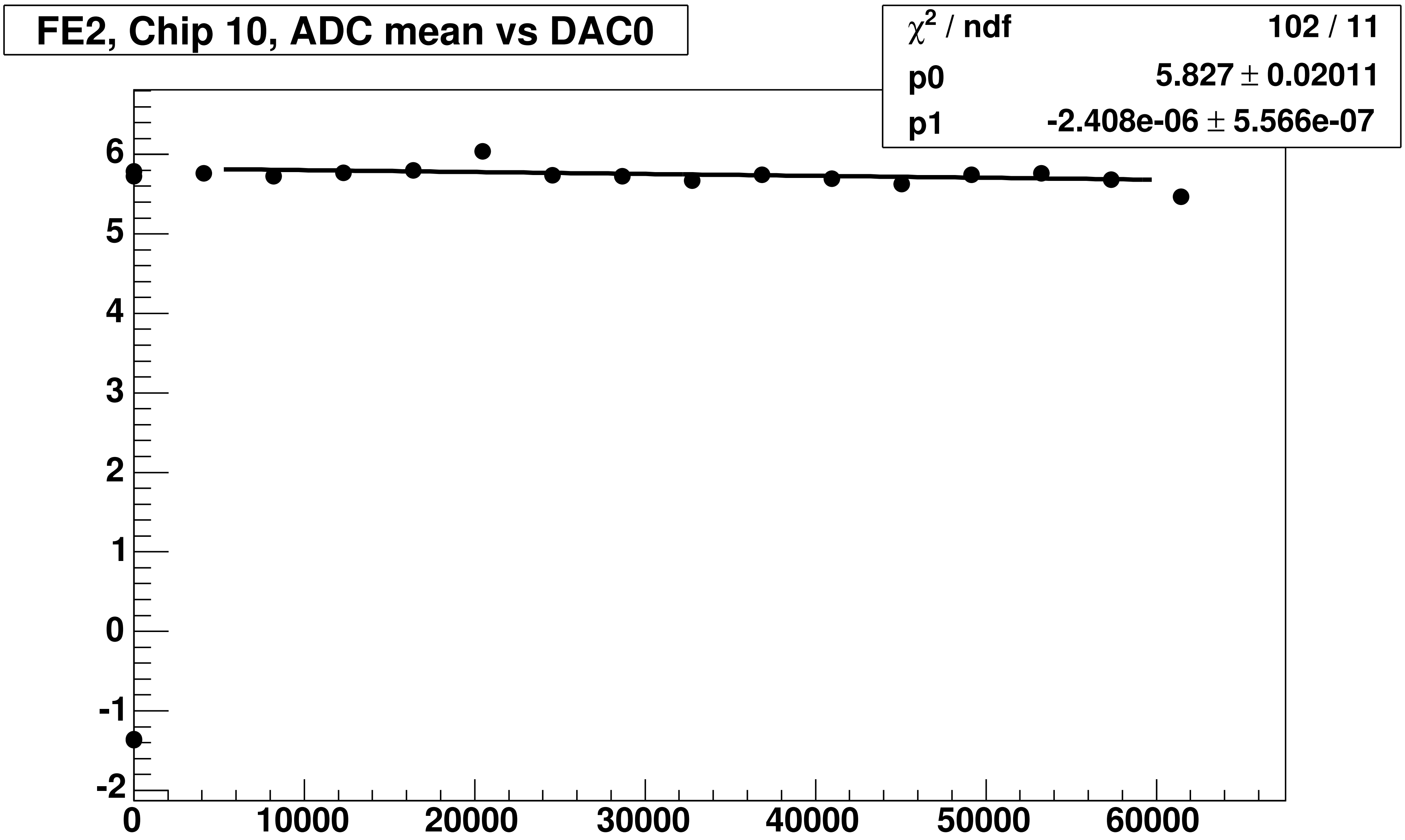
FE2, Chip 9, ADC mean vs DAC1
χ² / ndf 4754 / 11
p0 10.51 ± 0.0214
p1 0.4516 ± 6.915e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



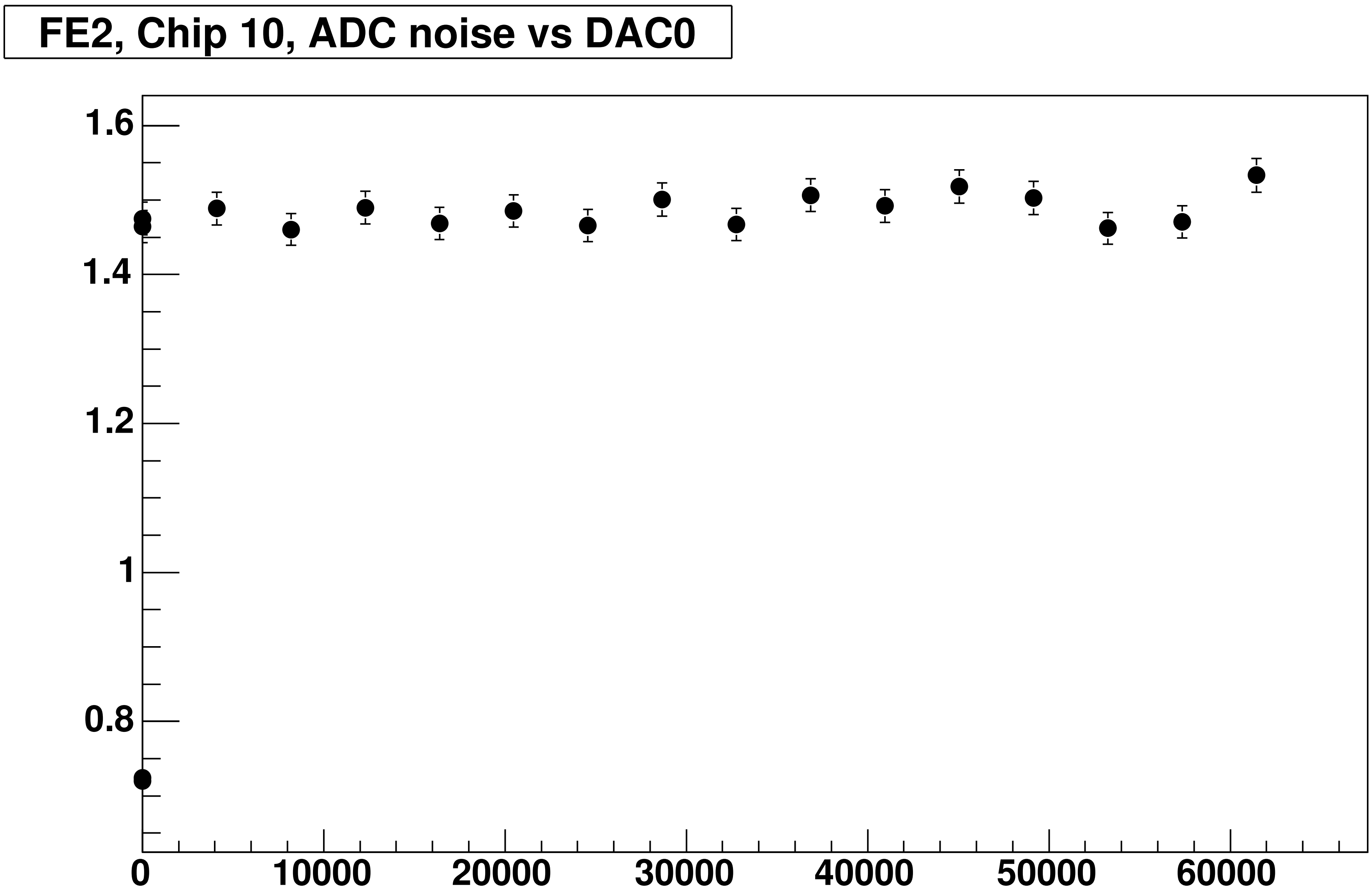
FE2, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

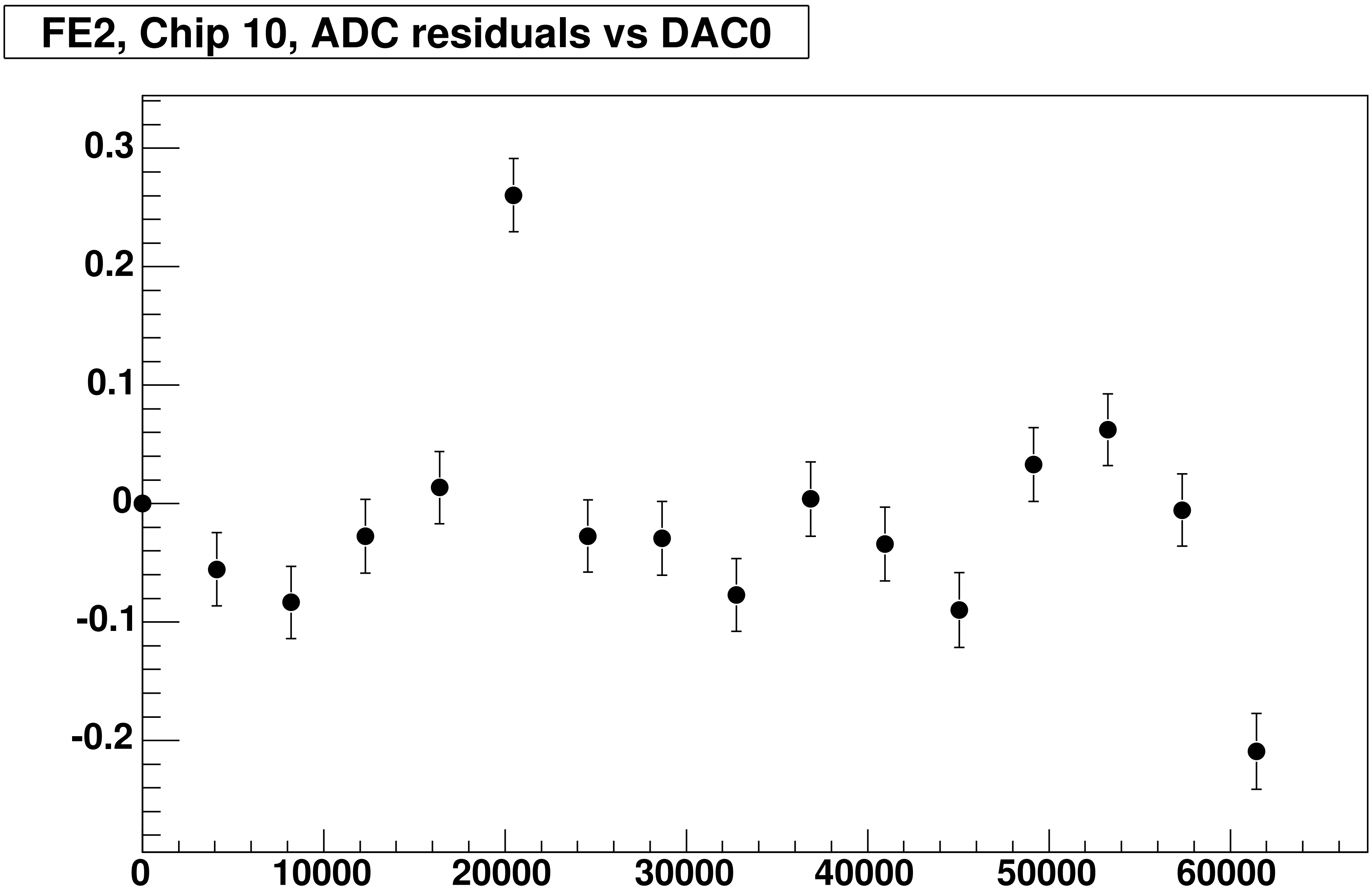


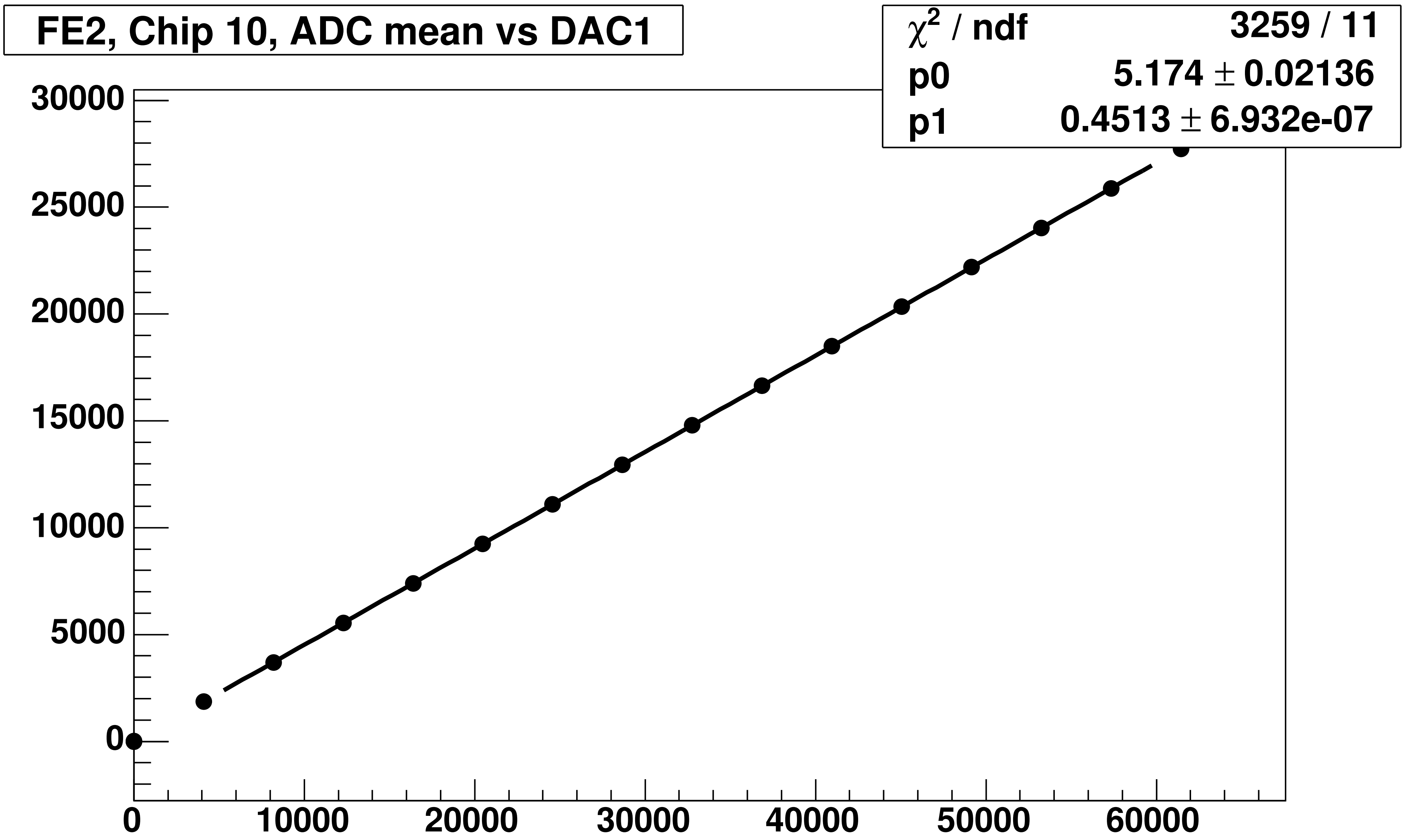
FE2, Chip 9, ADC residuals vs DAC1
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000



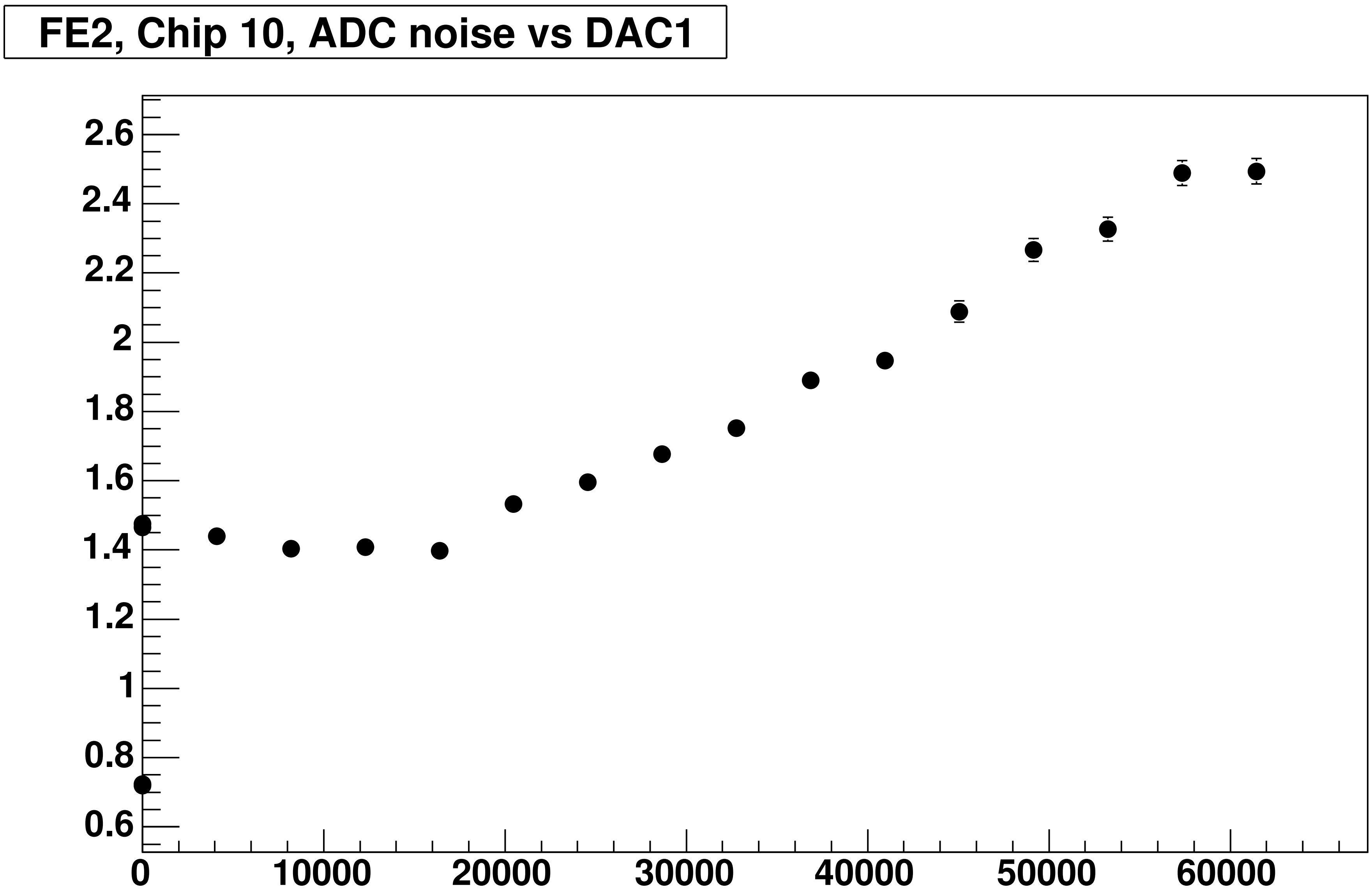
FE2, Chip 10, ADC mean vs DAC0
χ^2 / ndf 102 / 11
p0 5.827 ± 0.02011
p1 -2.408e-06 ± 5.566e-07
6
5
4
3
2
1
0
-1
-2
0
10000
20000
30000
40000
50000
60000

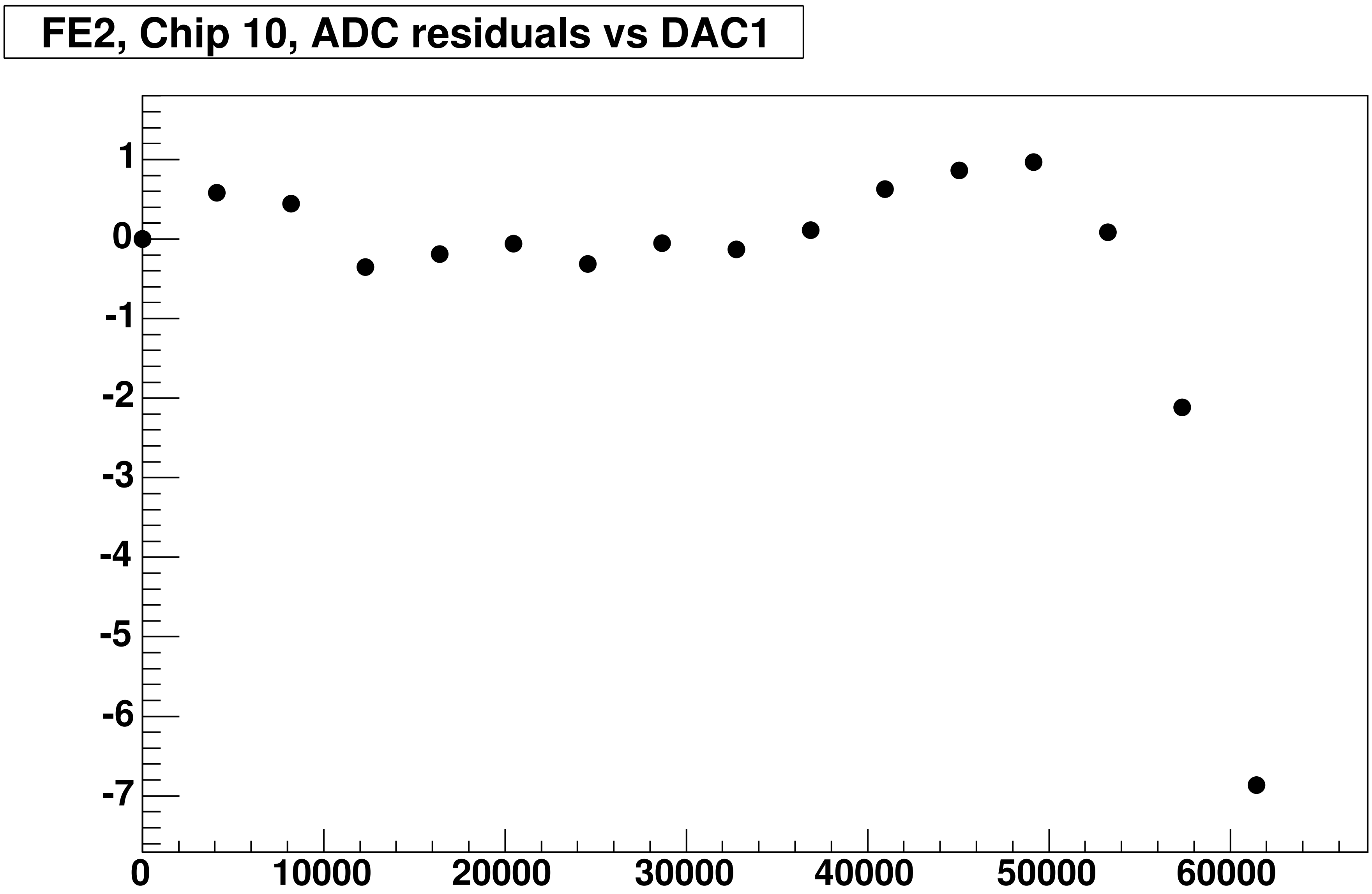

FE2, Chip 10, ADC noise vs DAC0
1.6
1.4
1.2
1
0.8
0
10000
20000
30000
40000
50000
60000


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

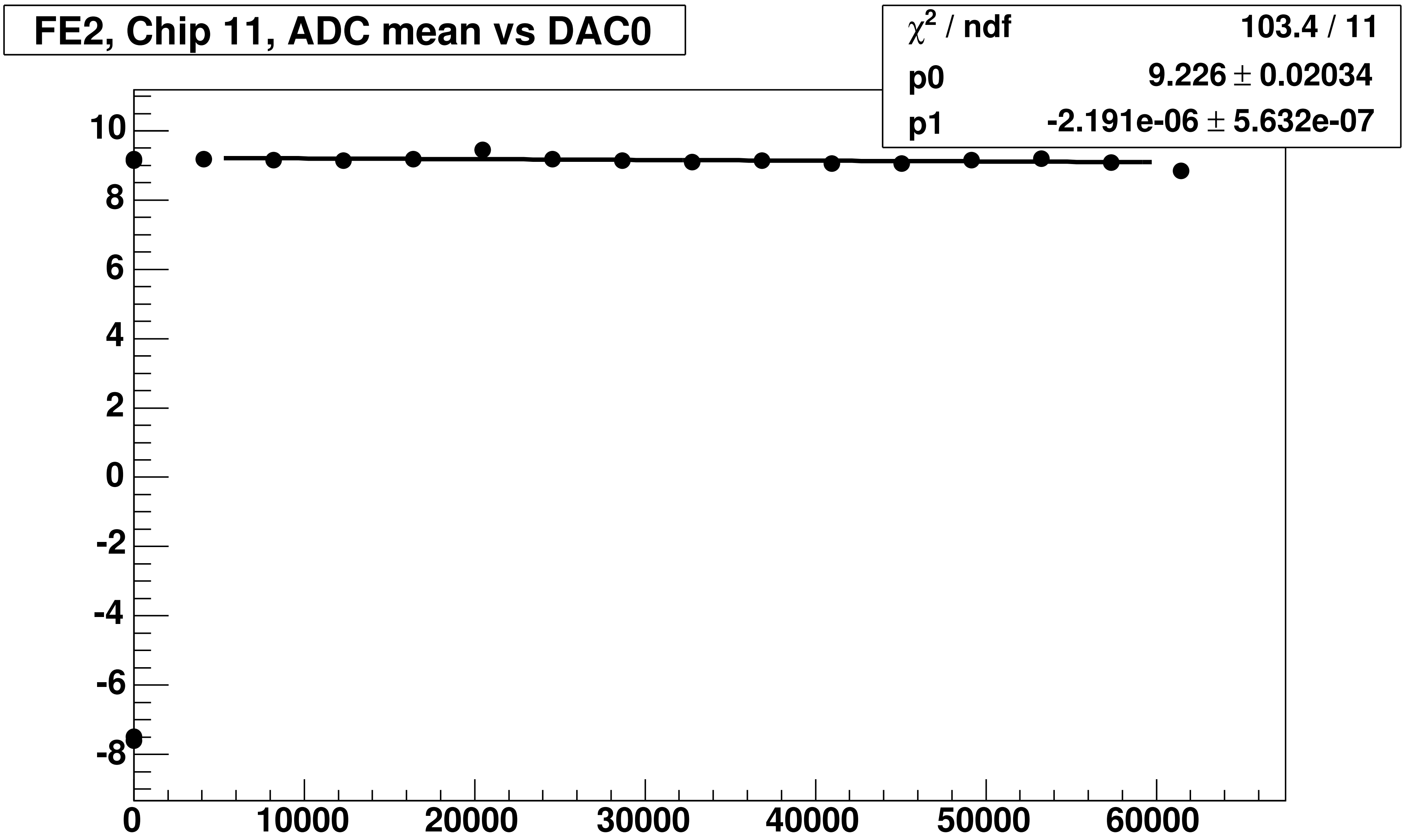


FE2, Chip 10, ADC mean vs DAC1
χ^2 / ndf 3259 / 11
p0 5.174 ± 0.02136
p1 0.4513 ± 6.932e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

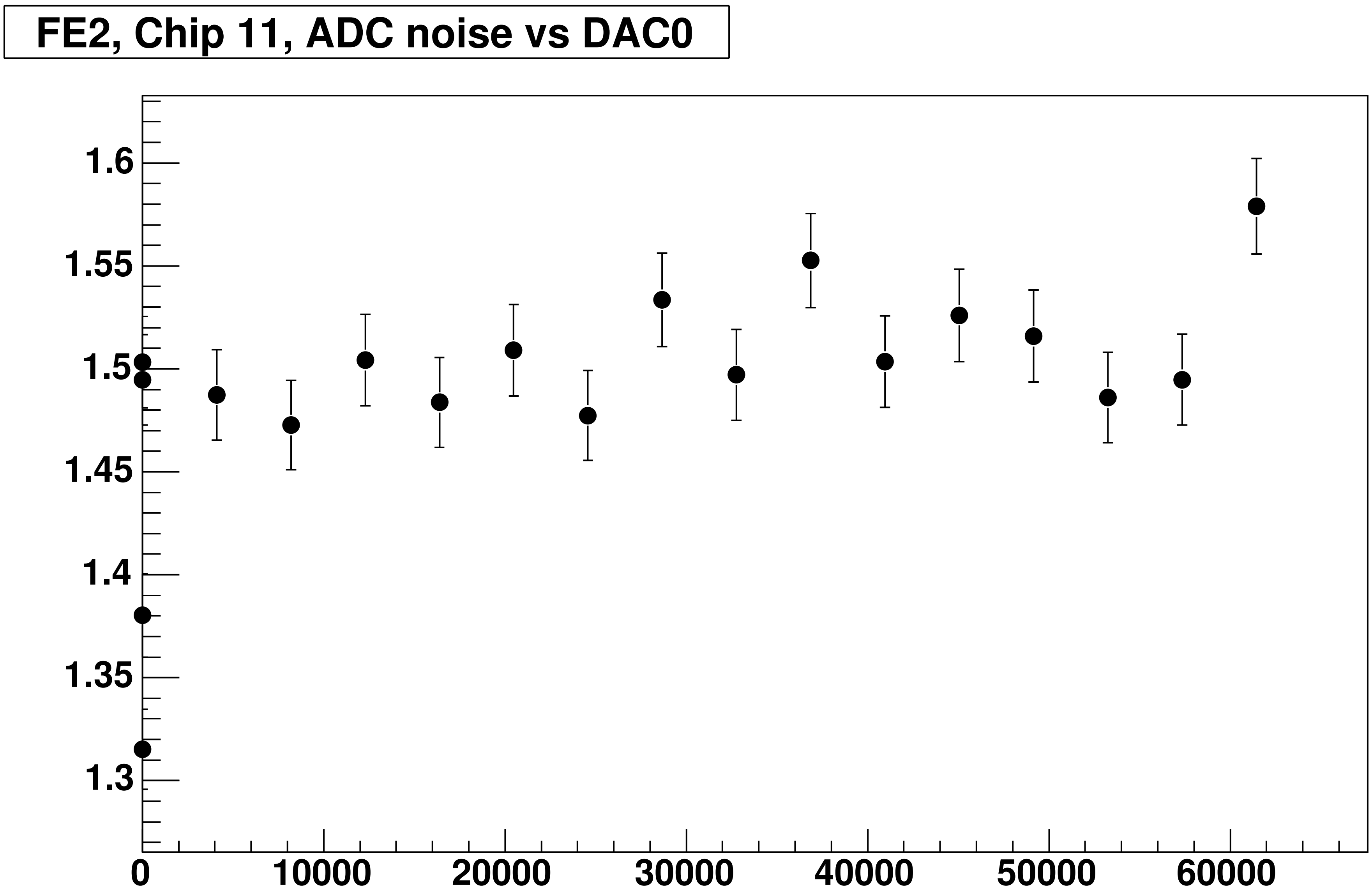

FE2, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0
10000
20000
30000
40000
50000
60000



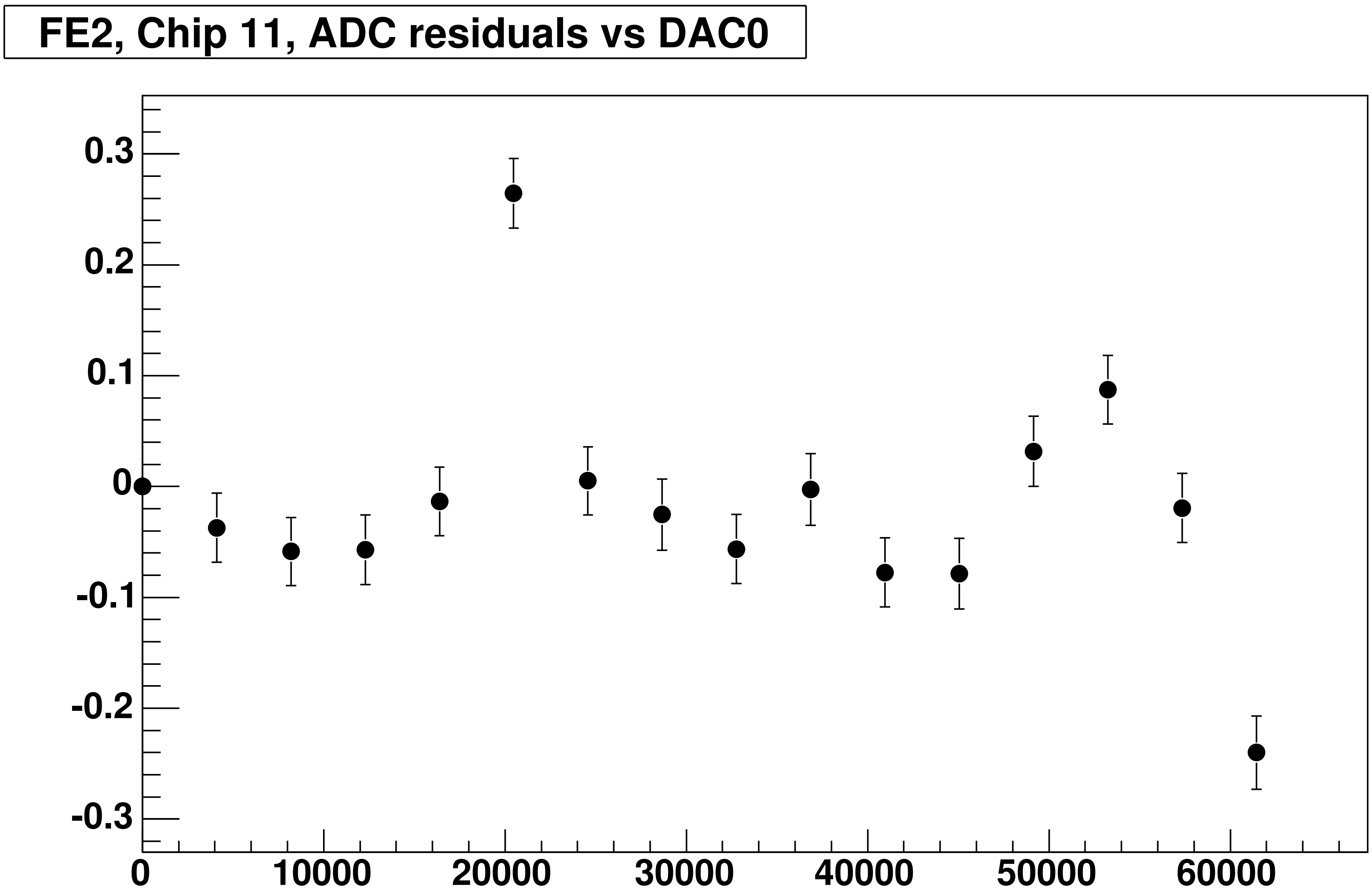
FE2, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

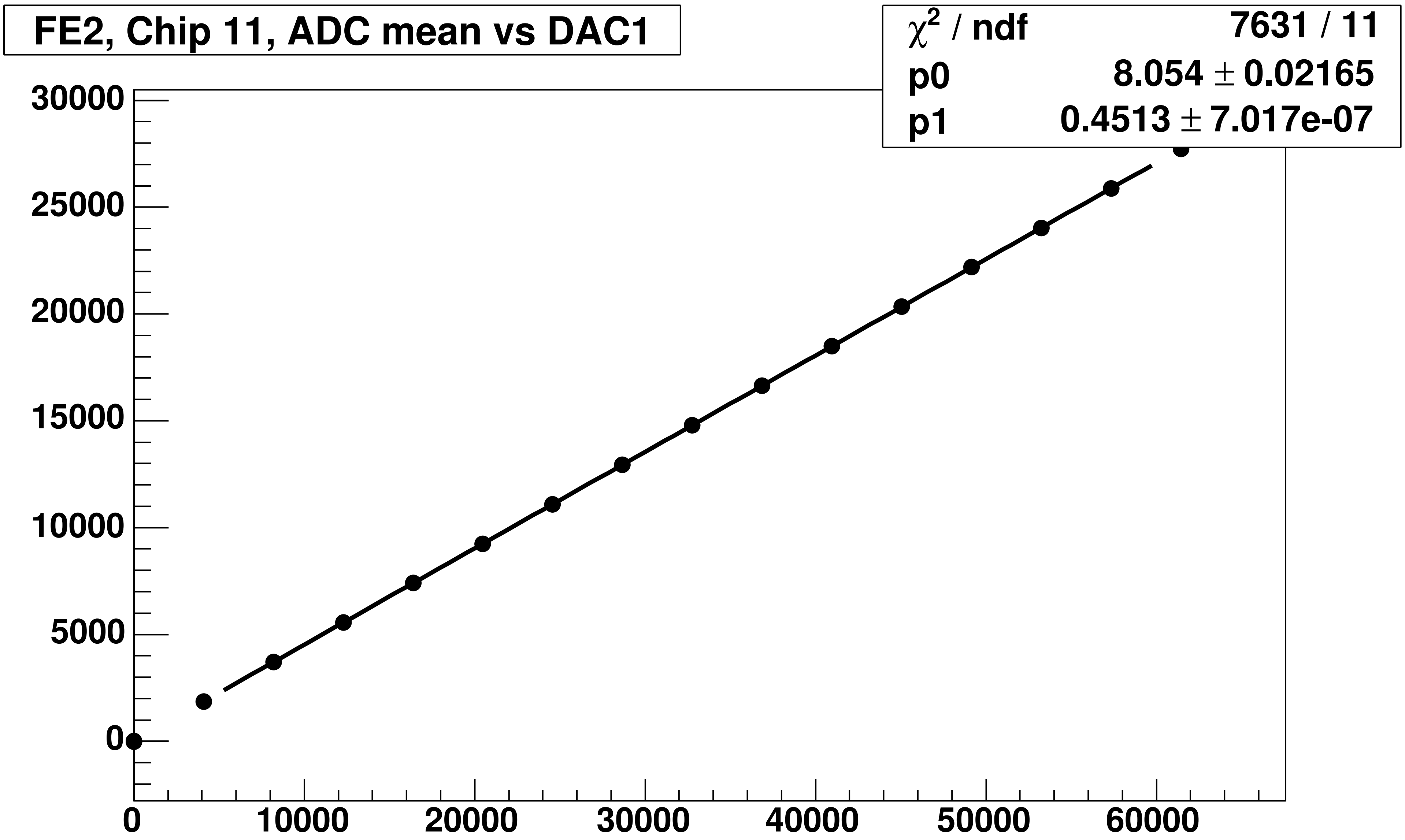


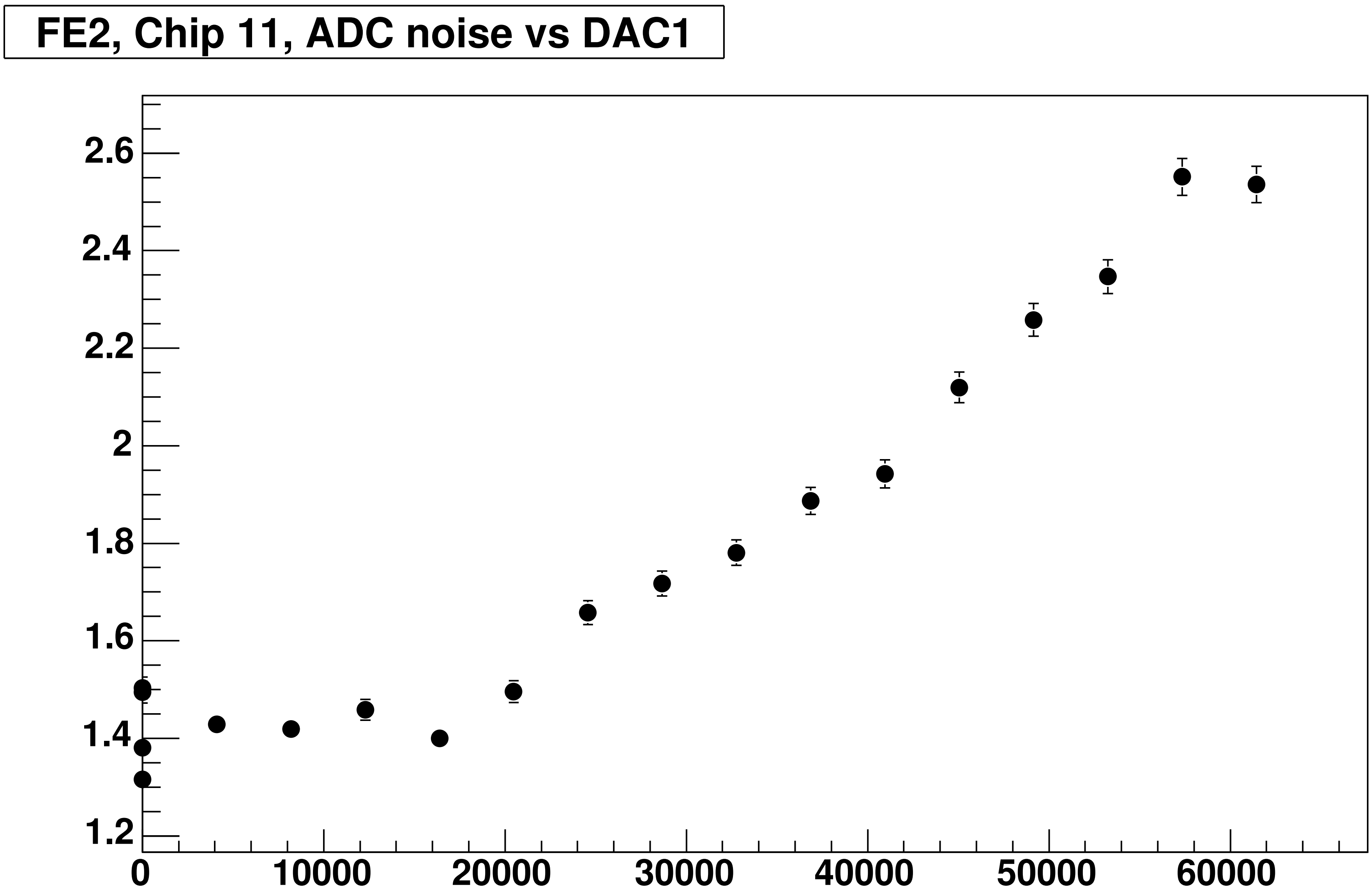
FE2, Chip 11, ADC mean vs DAC0
χ^2 / ndf 103.4 / 11
p0 9.226 ± 0.02034
p1 -2.191e-06 ± 5.632e-07
10
8
6
4
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

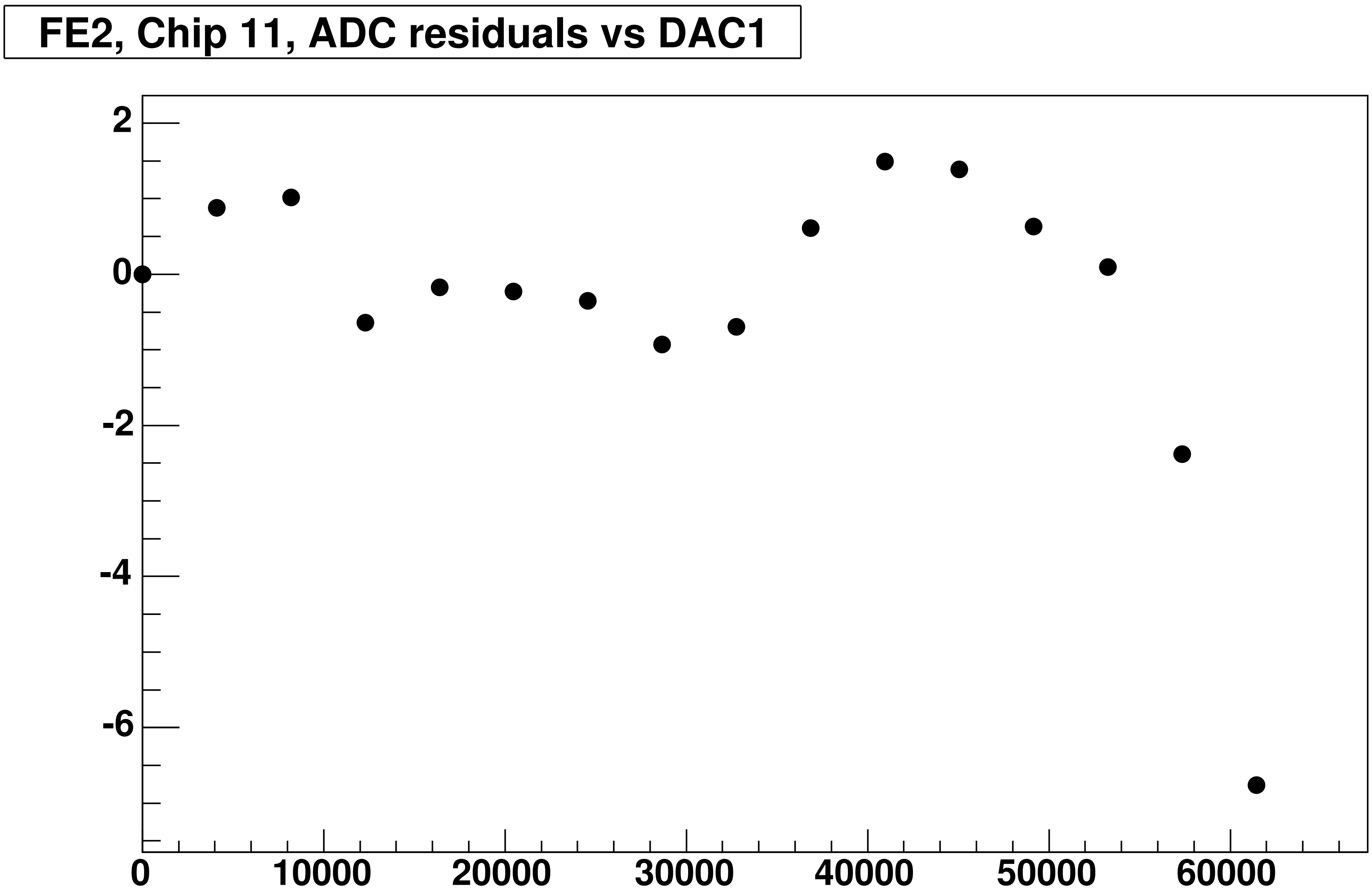


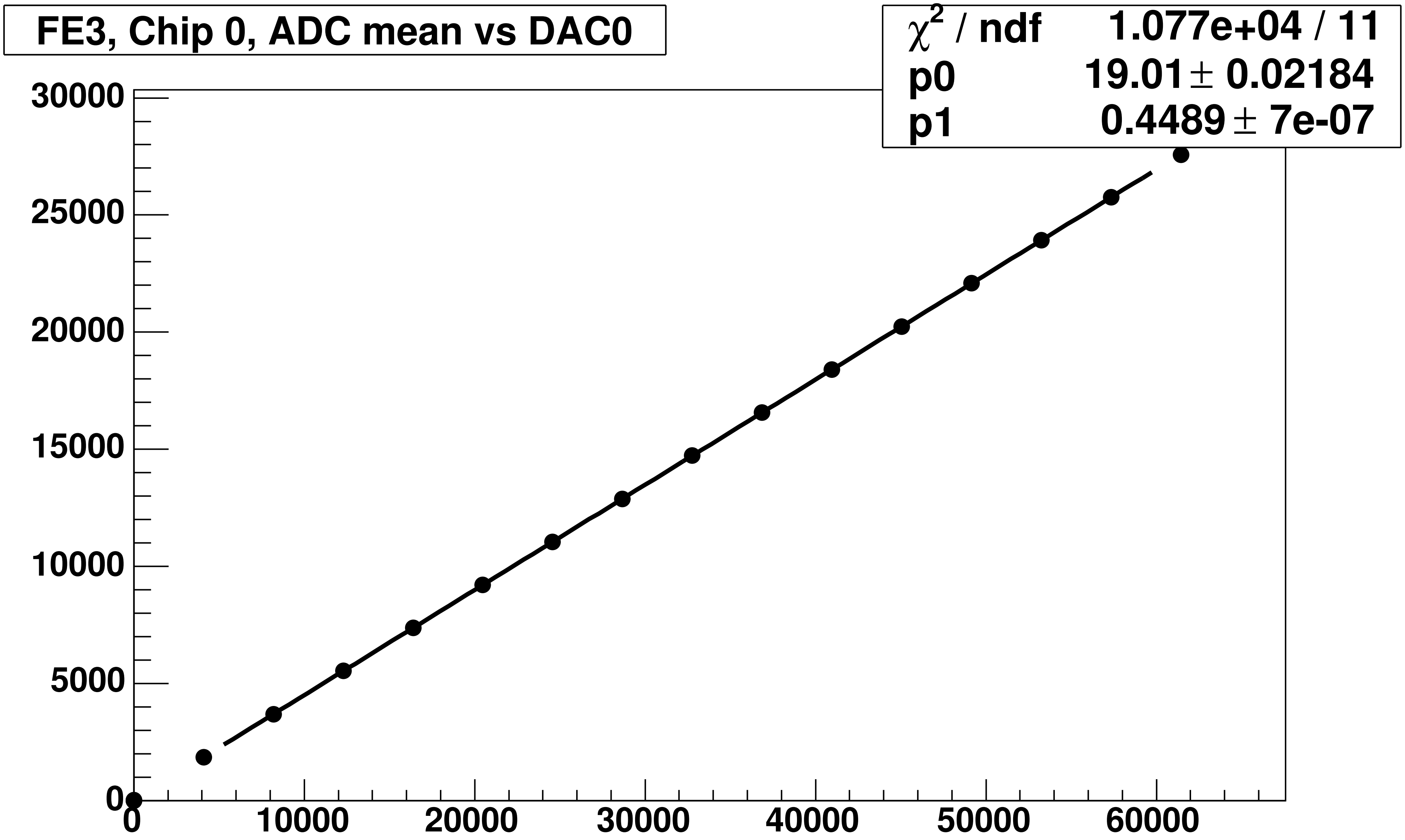
FE2, Chip 11, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


FE2, 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

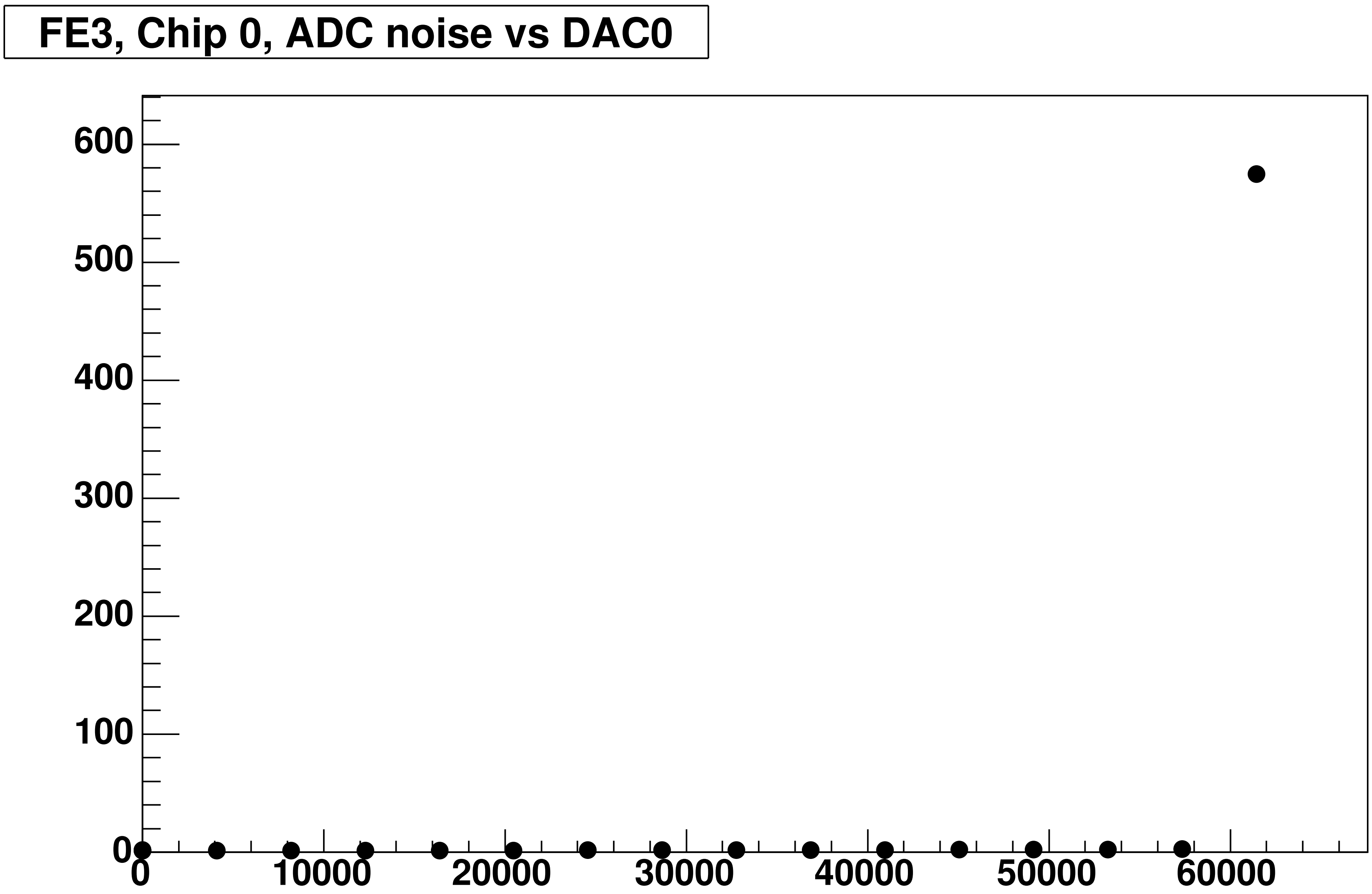

FE2, Chip 11, ADC mean vs DAC1
χ^2 / ndf 7631 / 11
p0 8.054 ± 0.02165
p1 0.4513 ± 7.017e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

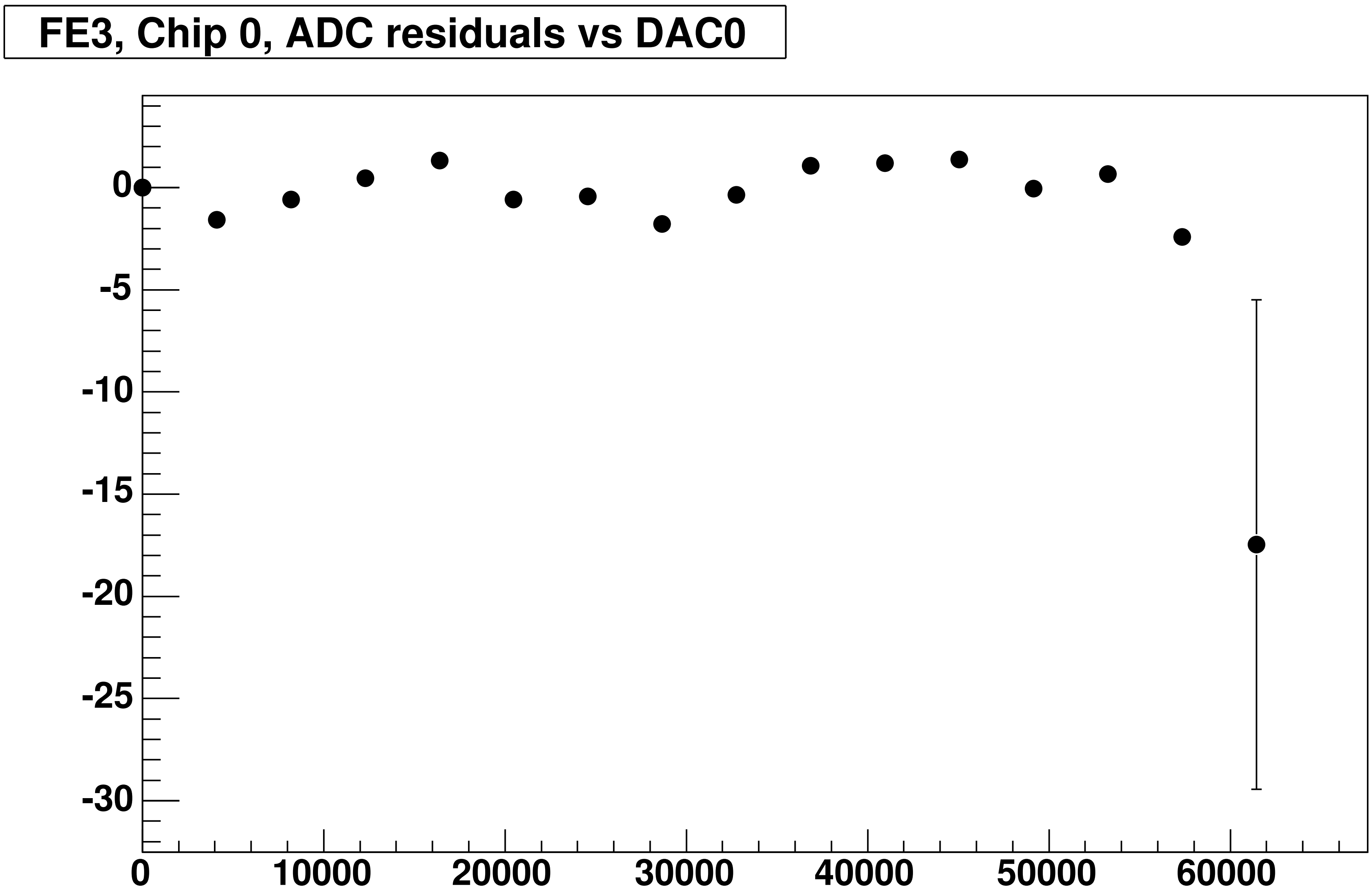

FE2, Chip 11, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

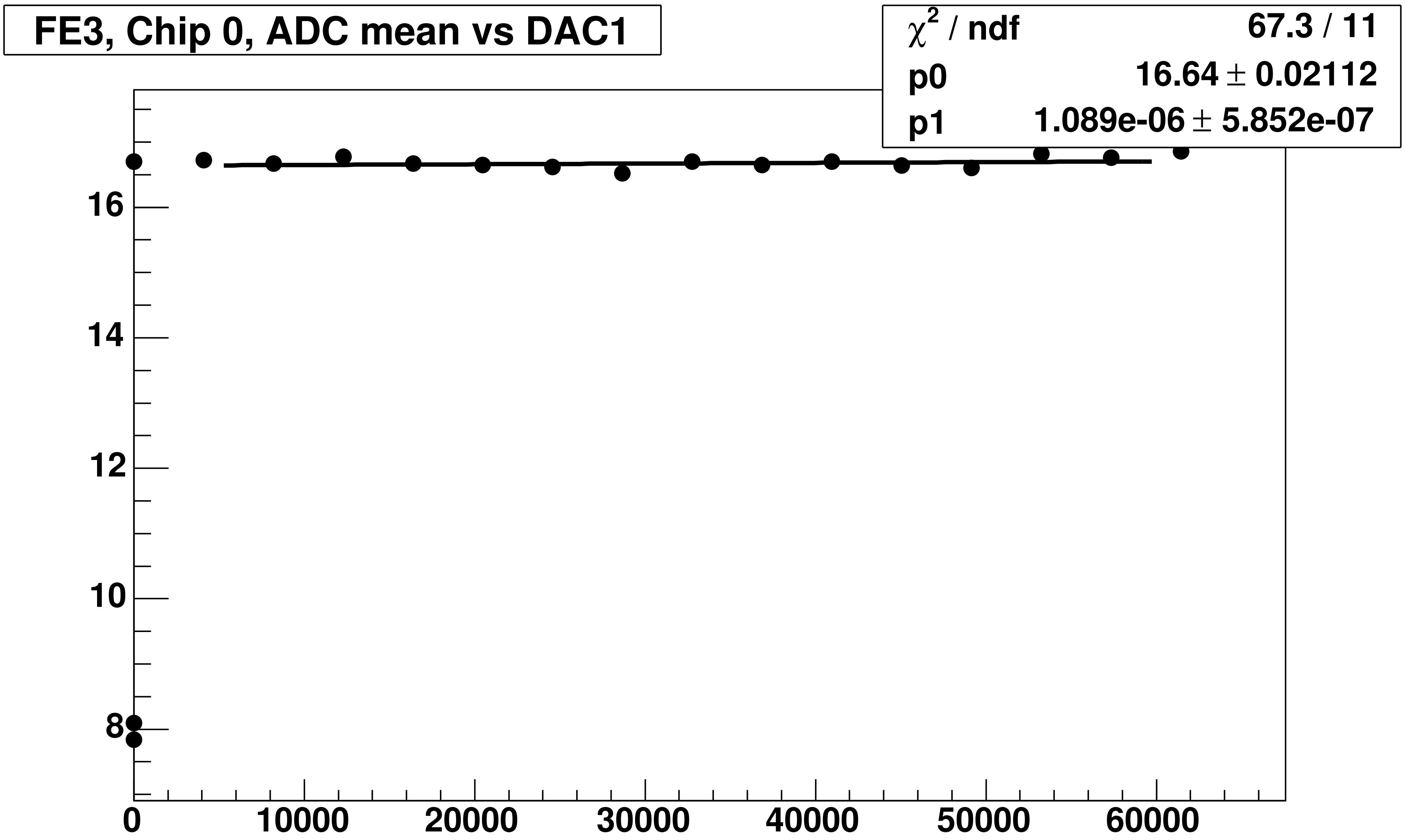


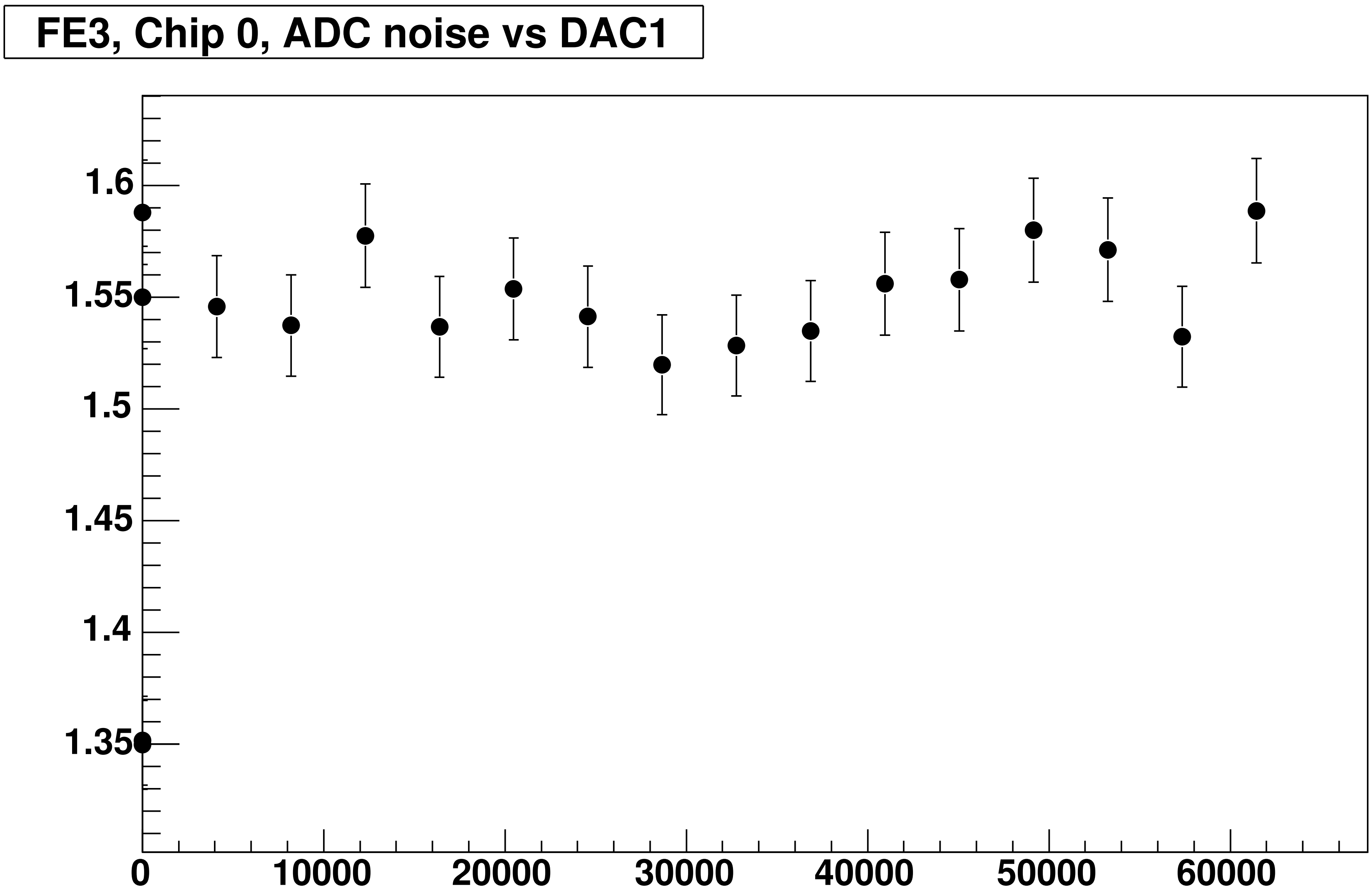
FE3, Chip 0, ADC mean vs DAC0
χ² / ndf 1.077e+04 / 11
p0 19.01 ± 0.02184
p1 0.4489 ± 7e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



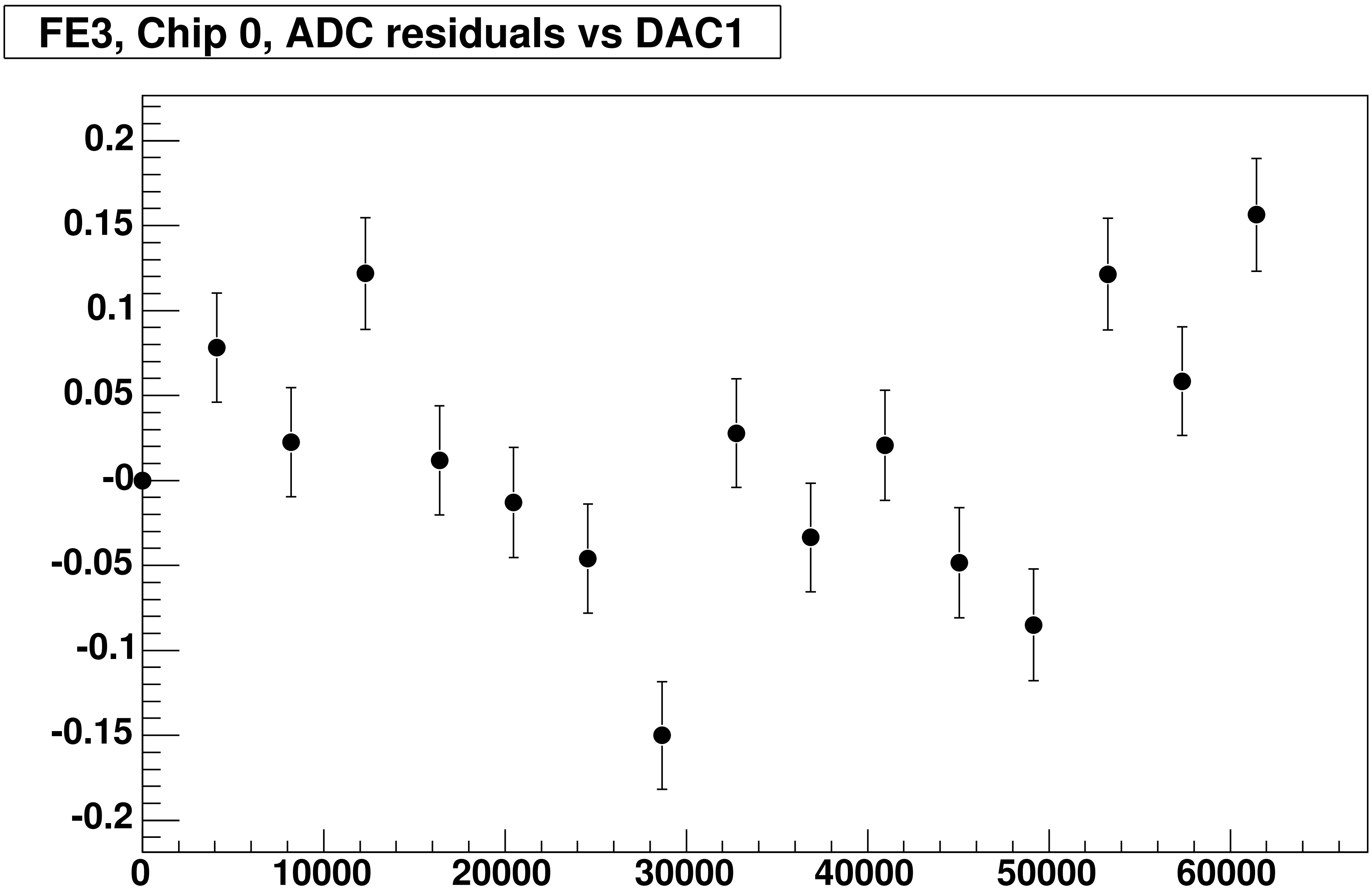
FE3, Chip 0, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

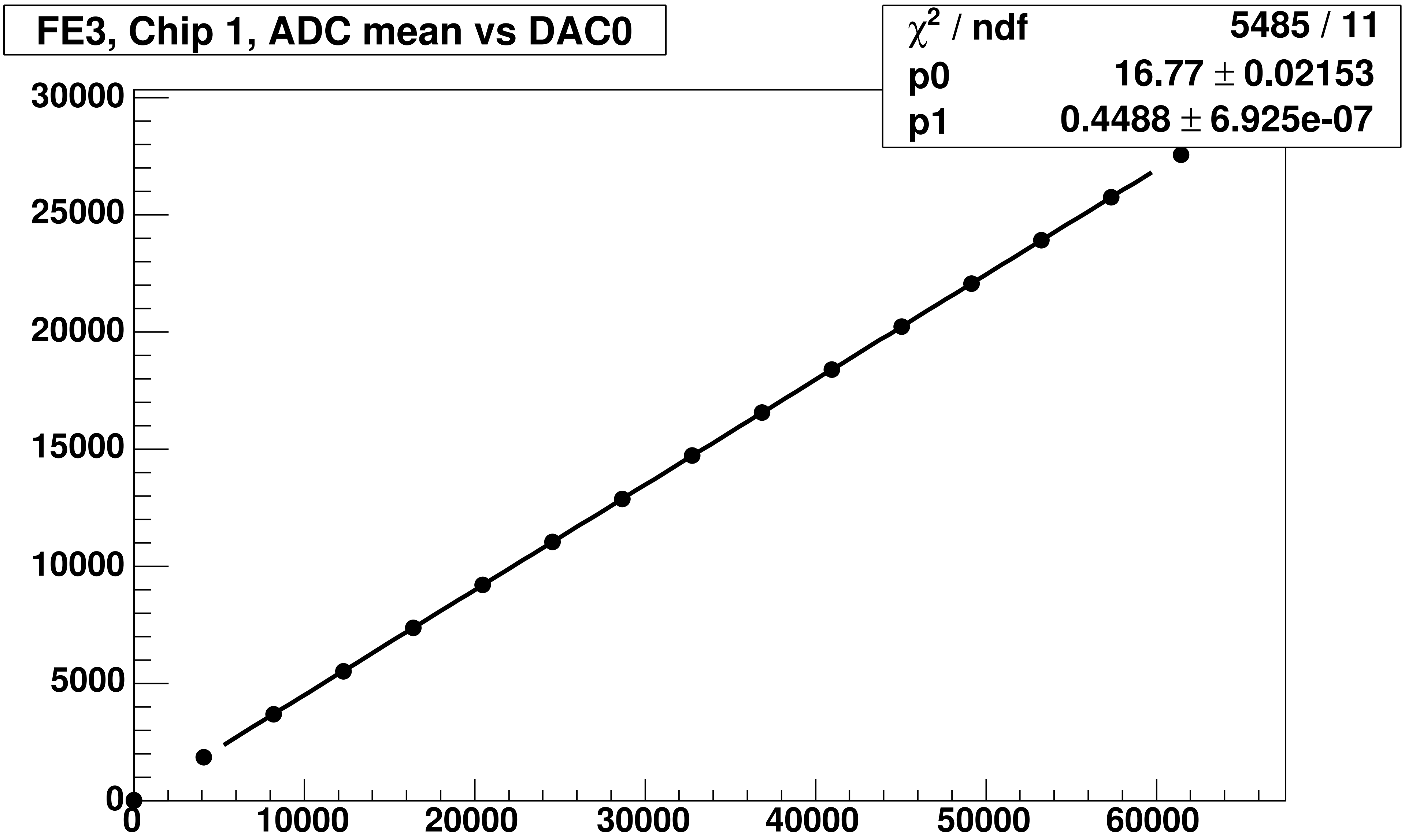

FE3, Chip 0, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

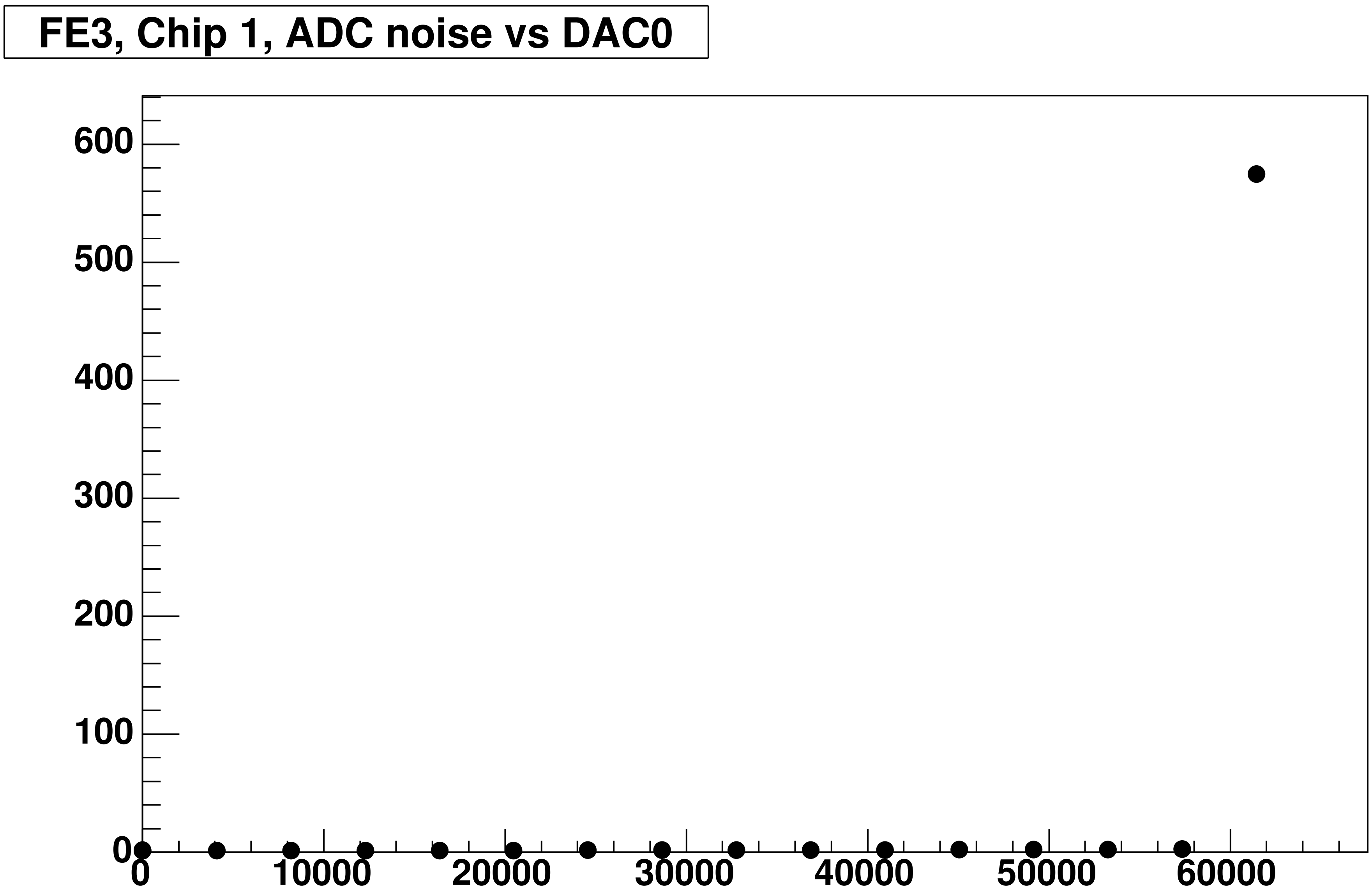

FE3, Chip 0, ADC mean vs DAC1
χ^2 / ndf 67.3 / 11
p0 16.64 ± 0.02112
p1 1.089e-06 ± 5.852e-07
16
14
12
10
8
0
10000
20000
30000
40000
50000
60000

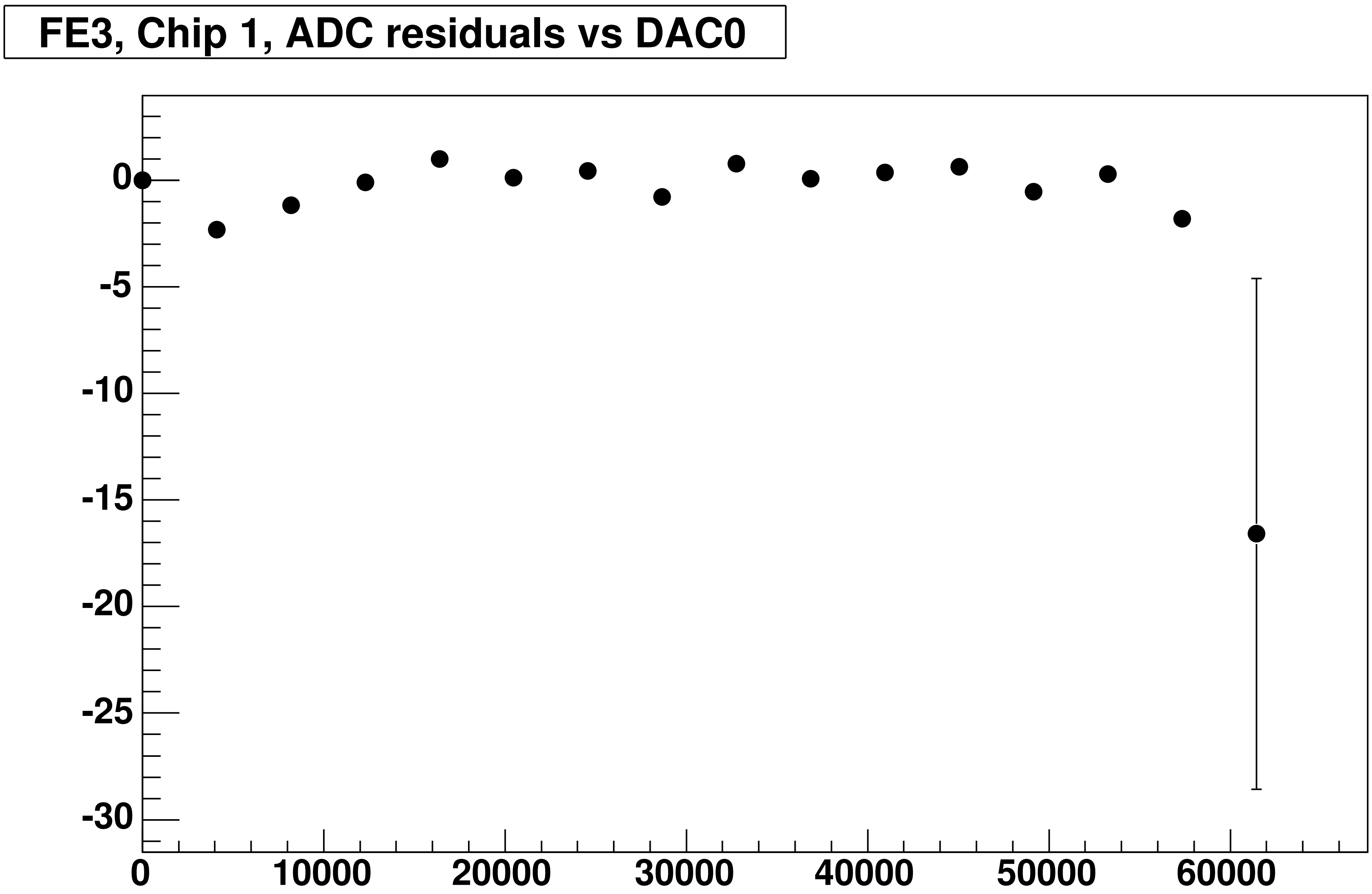


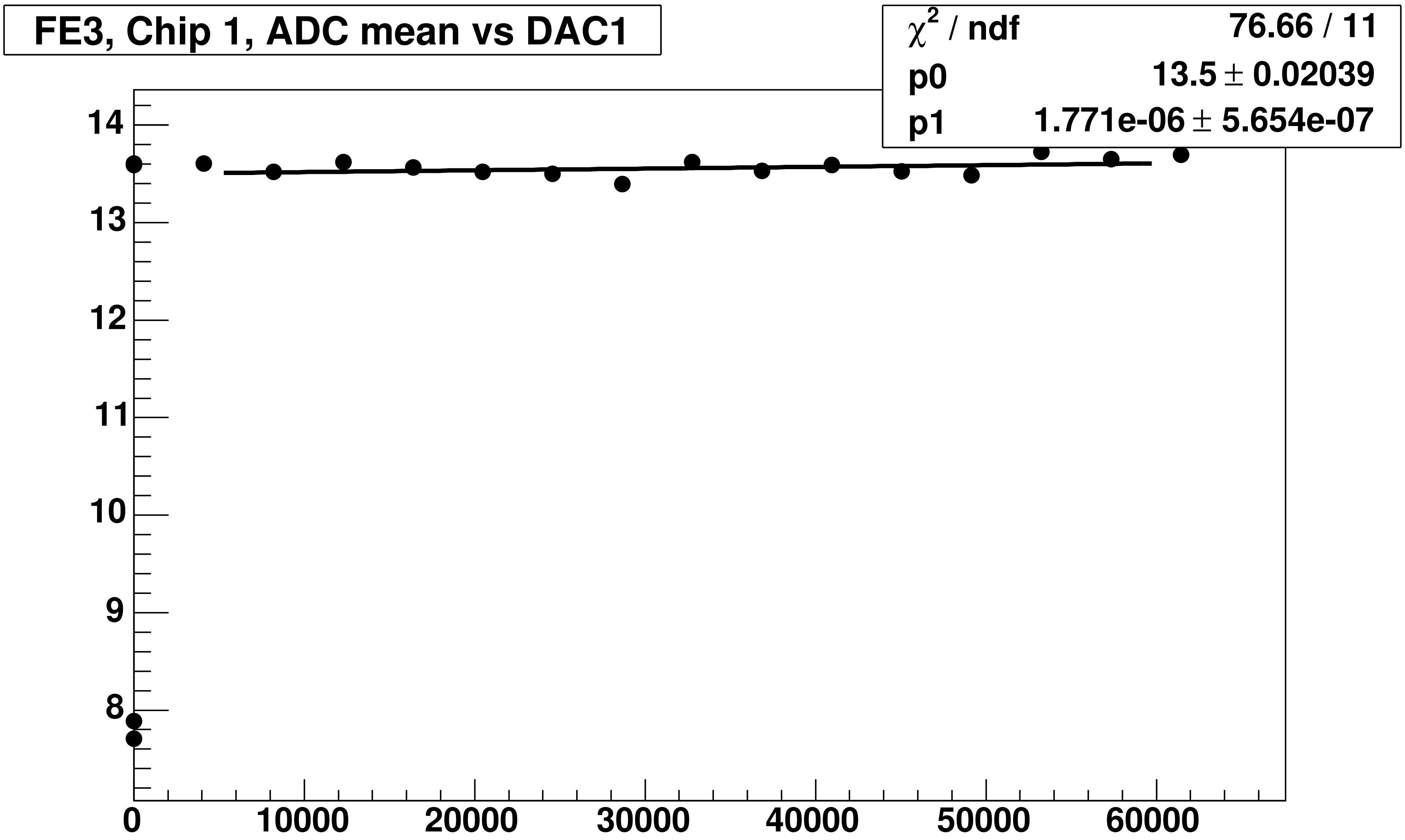
FE3, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE3, Chip 0, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

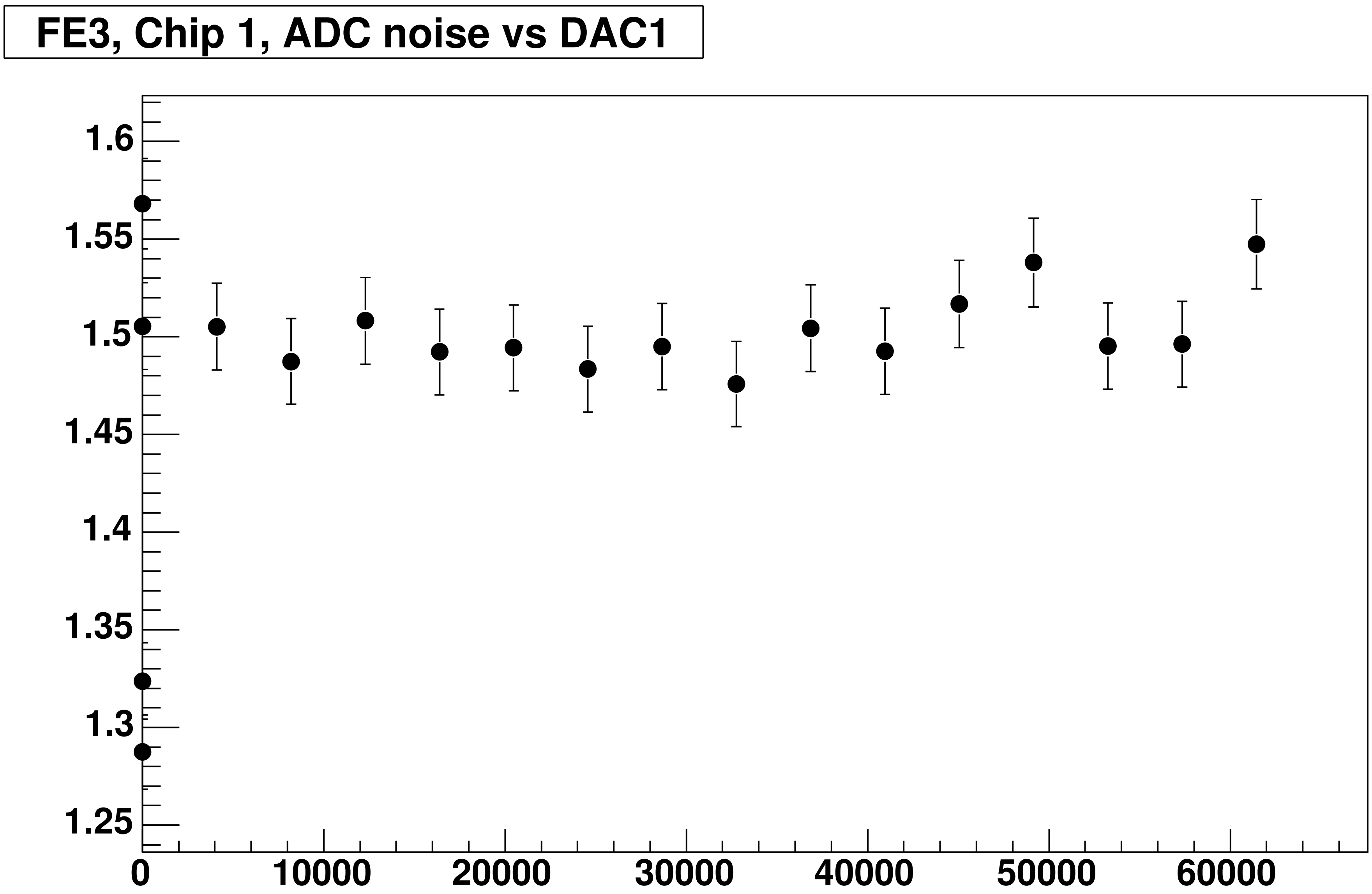

FE3, Chip 1, ADC mean vs DAC0
χ2 / ndf 5485 / 11
p0 16.77 ± 0.02153
p1 0.4488 ± 6.925e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

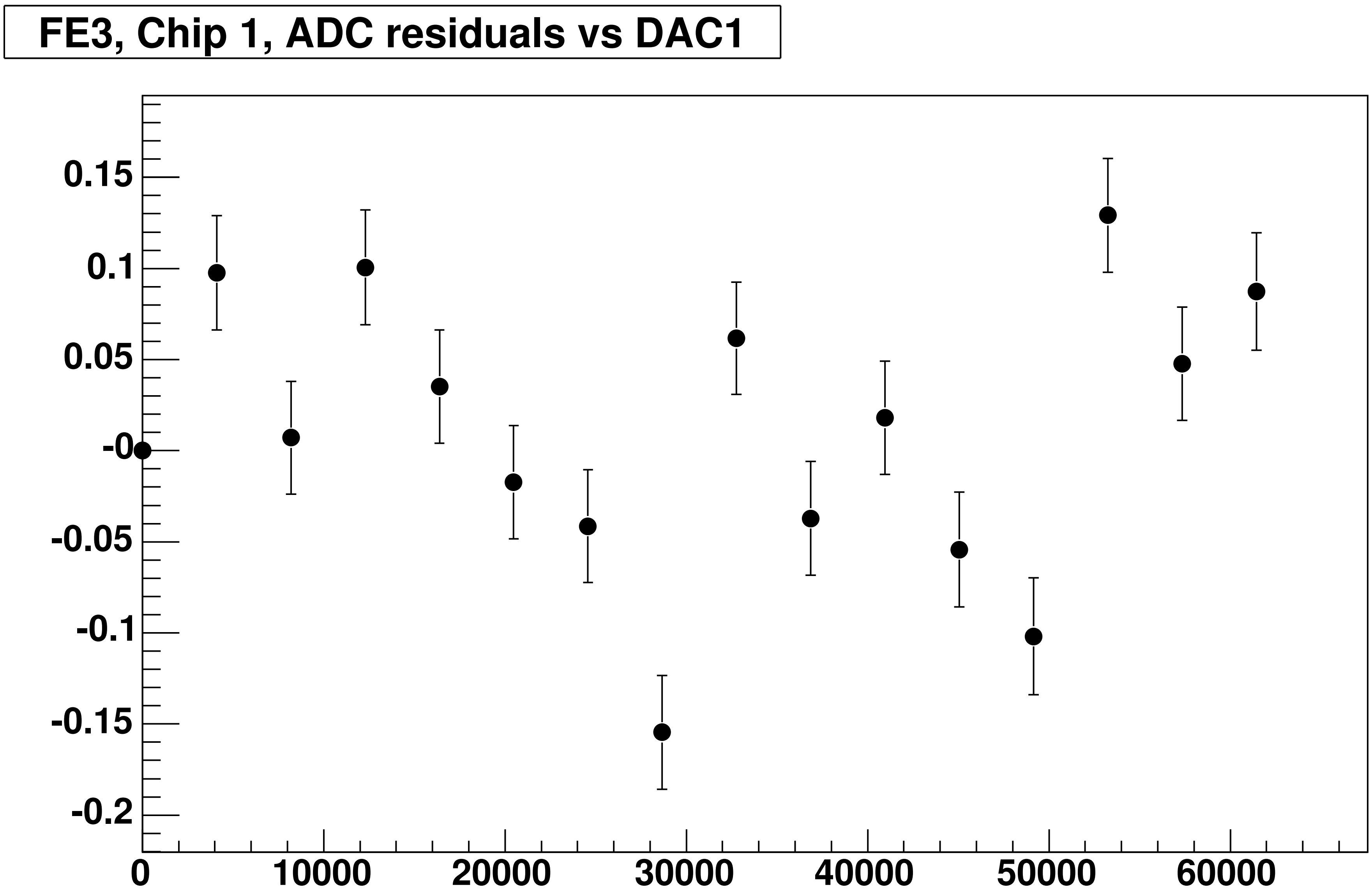

FE3, Chip 1, ADC noise vs DAC0
0
100
200
300
400
500
600
0
10000
20000
30000
40000
50000
60000


FE3, Chip 1, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

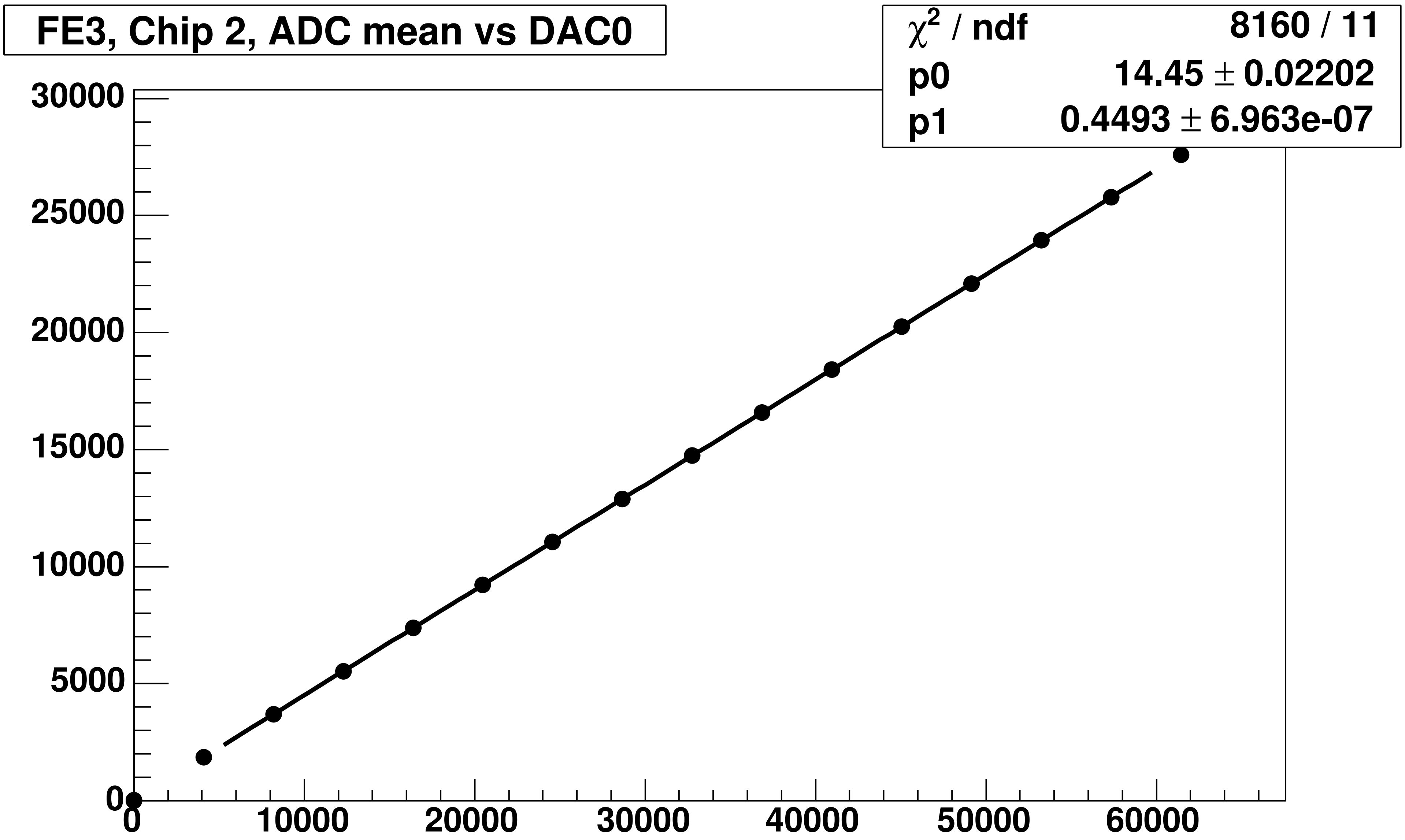


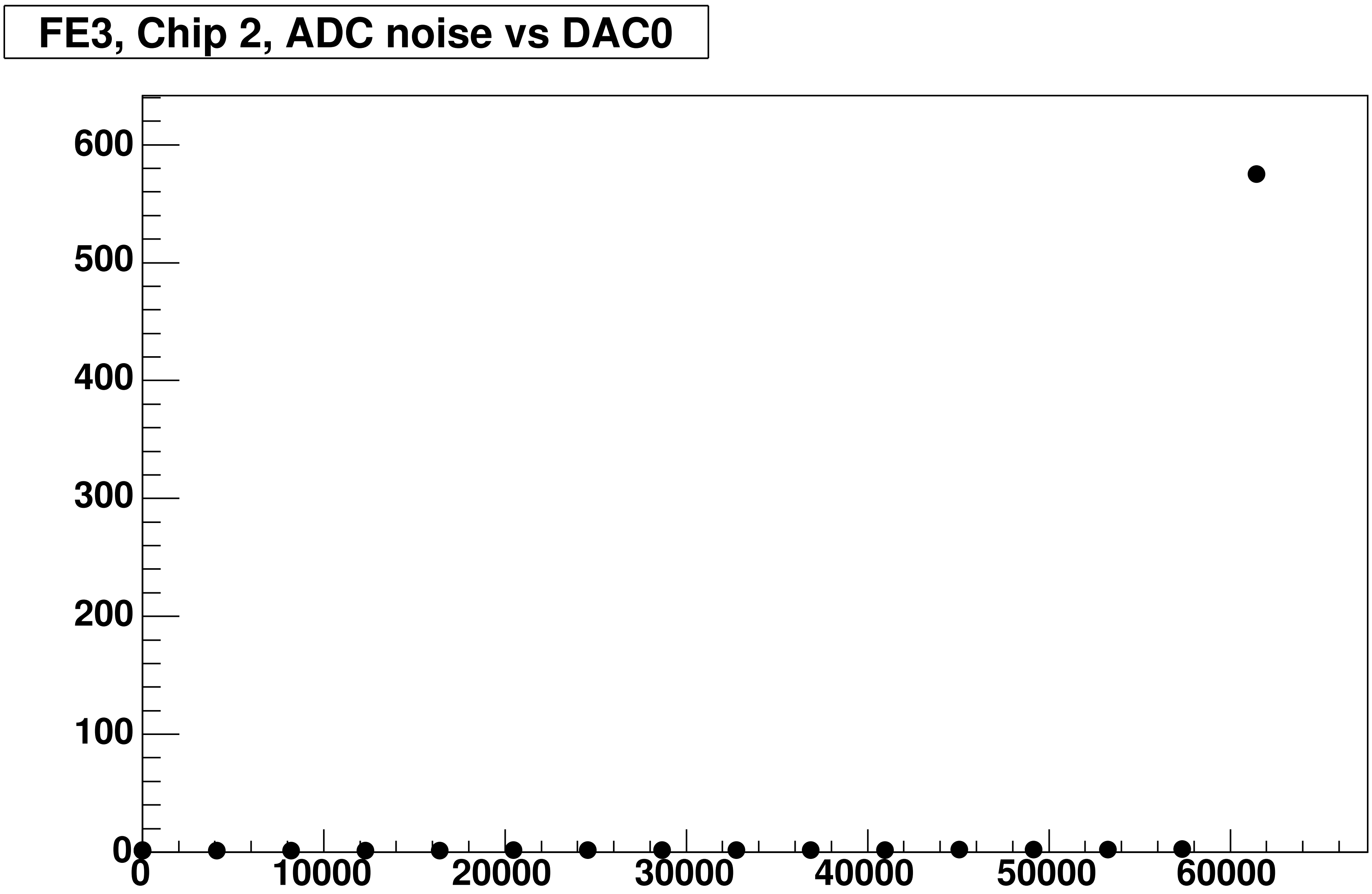
FE3, Chip 1, ADC mean vs DAC1
χ^2 / ndf 76.66 / 11
p0 13.5 ± 0.02039
p1 1.771e-06 ± 5.654e-07
14
13
12
11
10
9
8
0
10000
20000
30000
40000
50000
60000

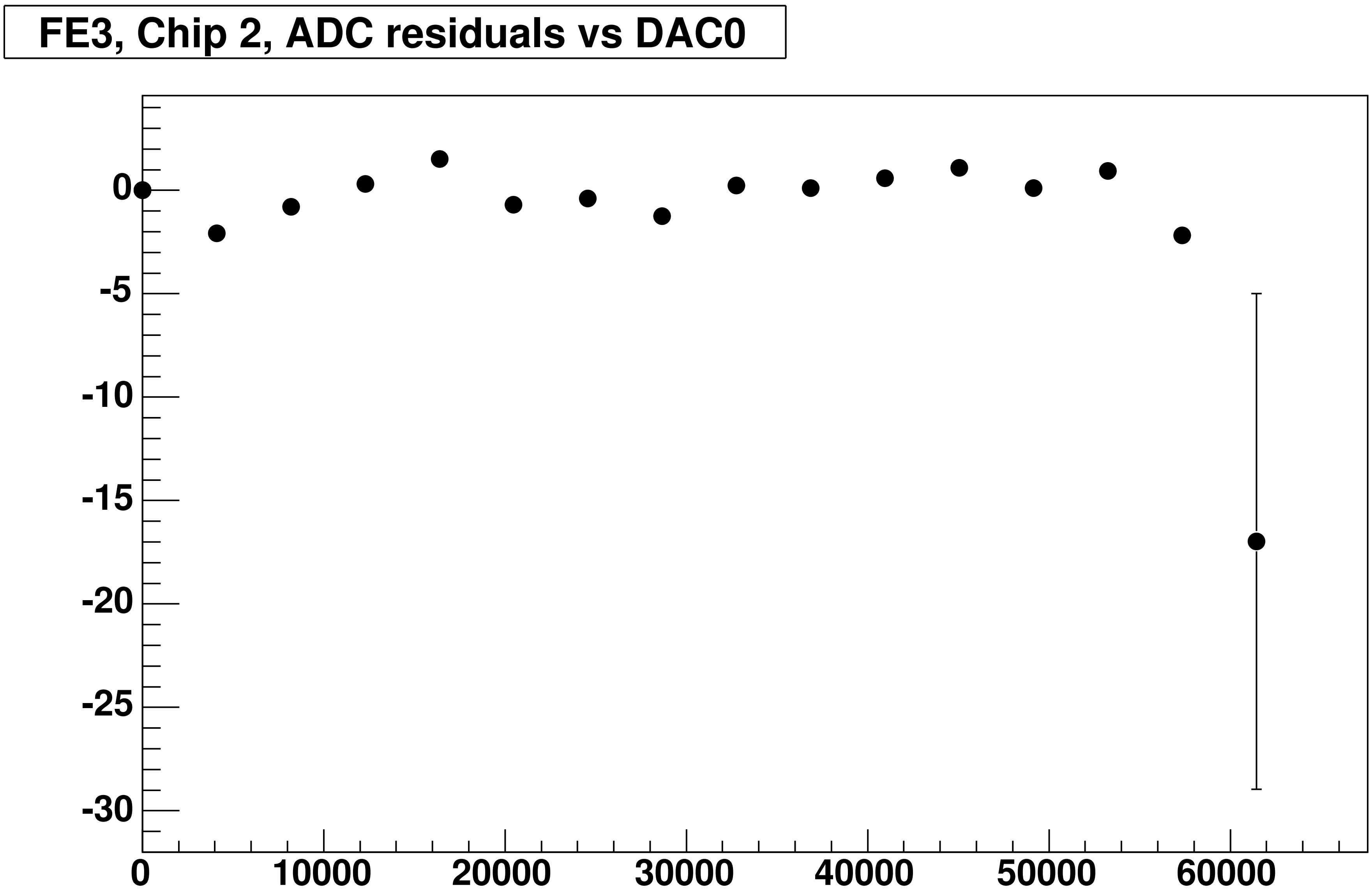

FE3, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000



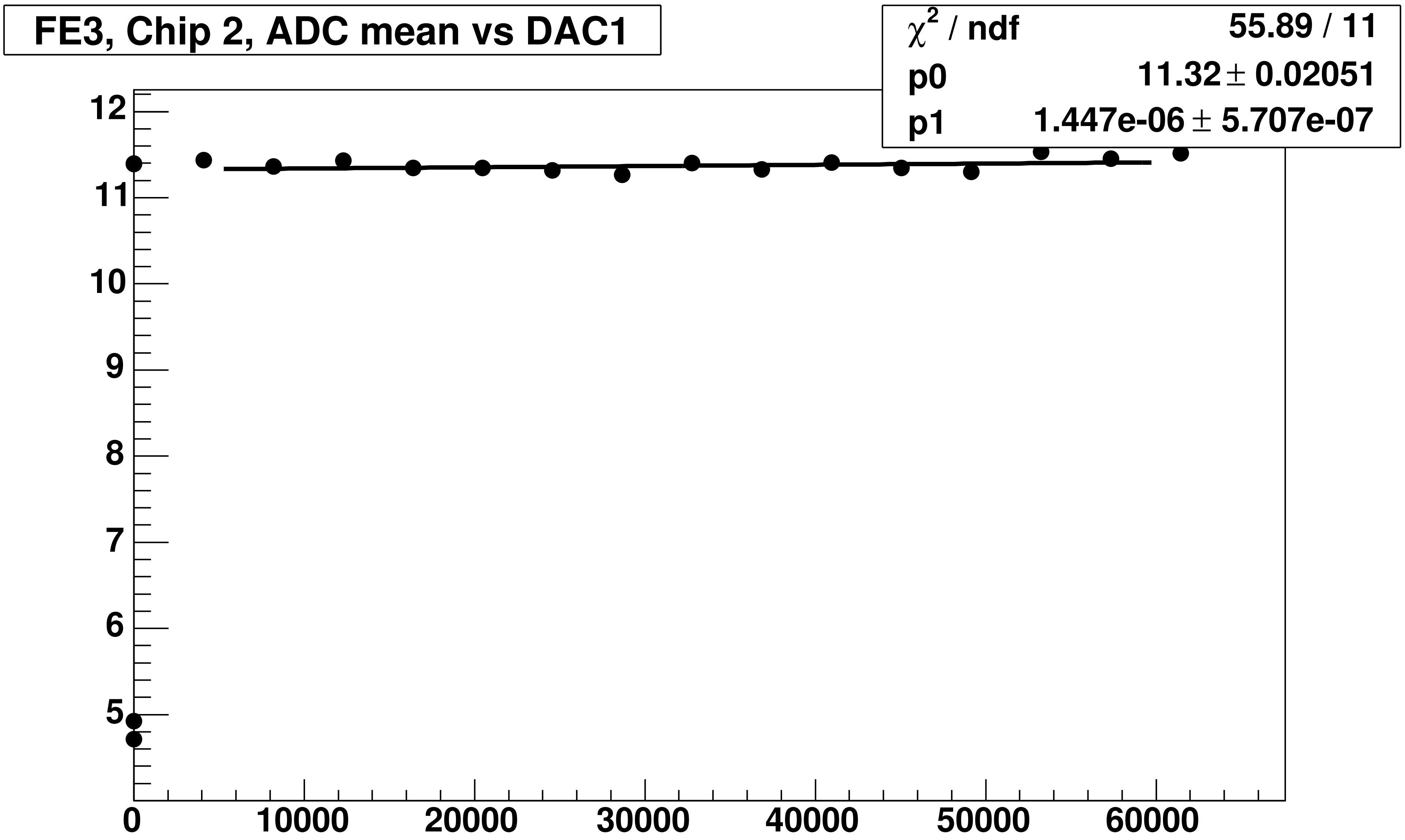
FE3, Chip 1, ADC residuals vs DAC1
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE3, Chip 2, ADC mean vs DAC0
χ2 / ndf 8160 / 11
p0 14.45 ± 0.02202
p1 0.4493 ± 6.963e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

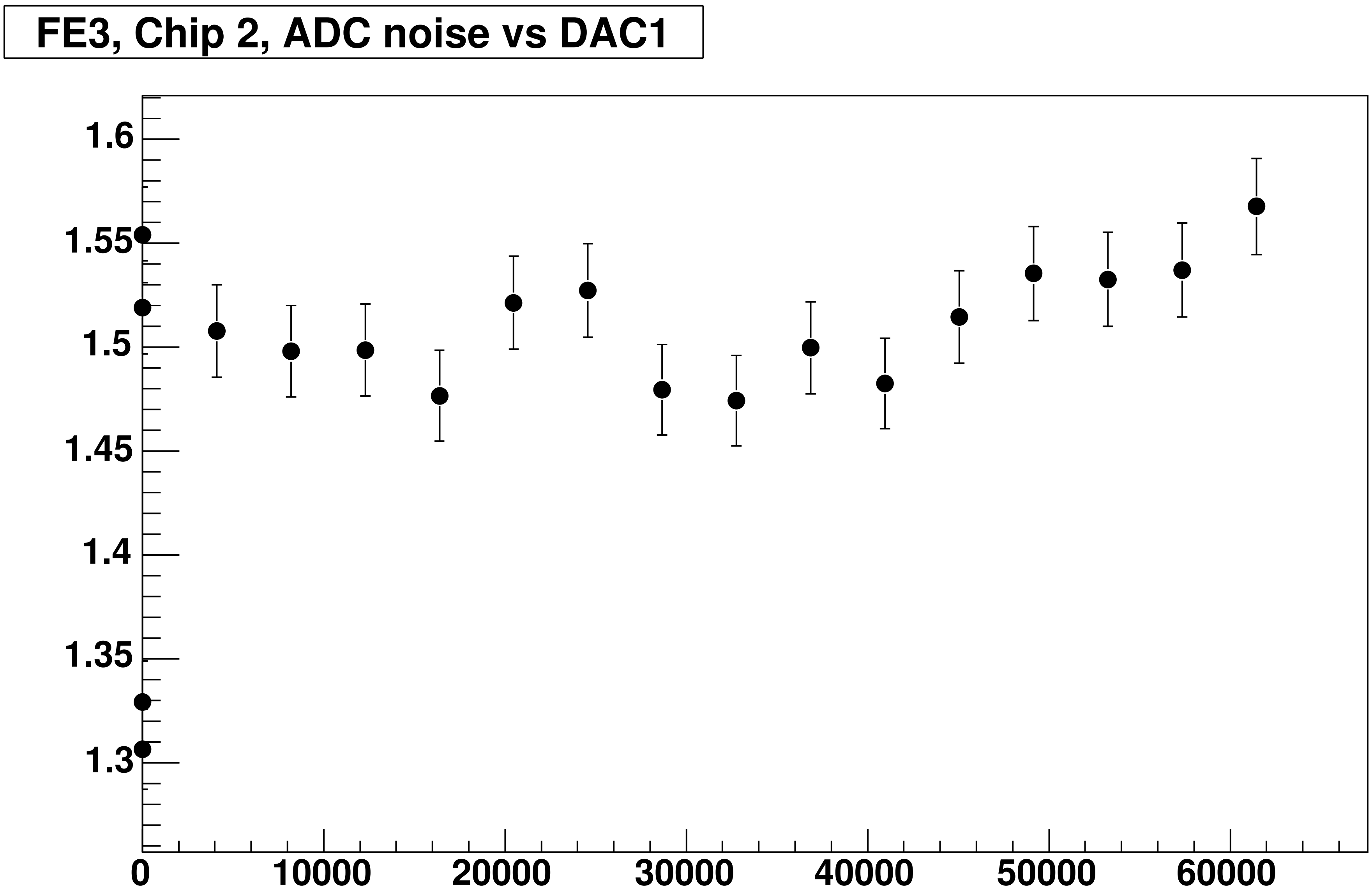

FE3, Chip 2, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

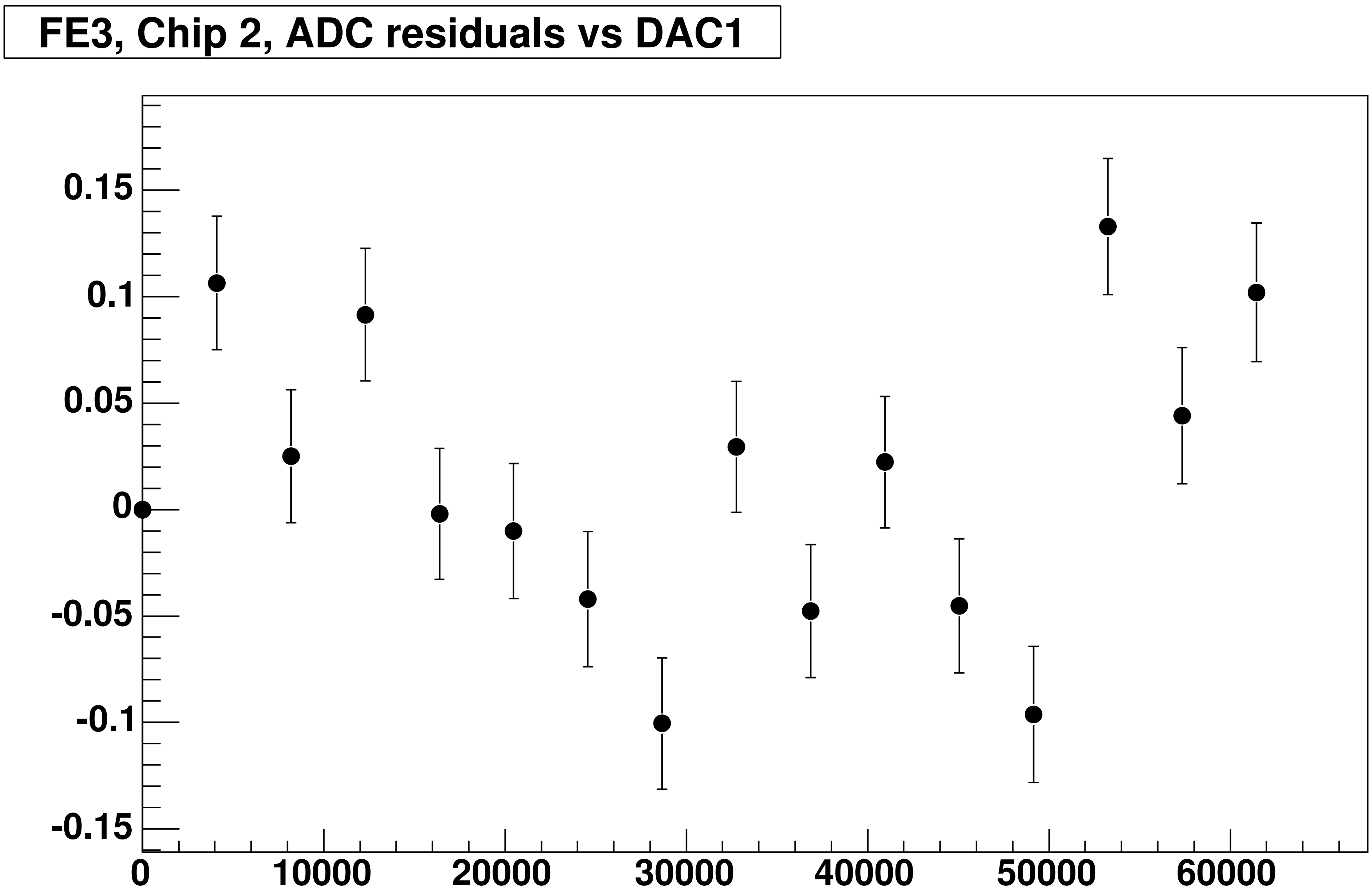


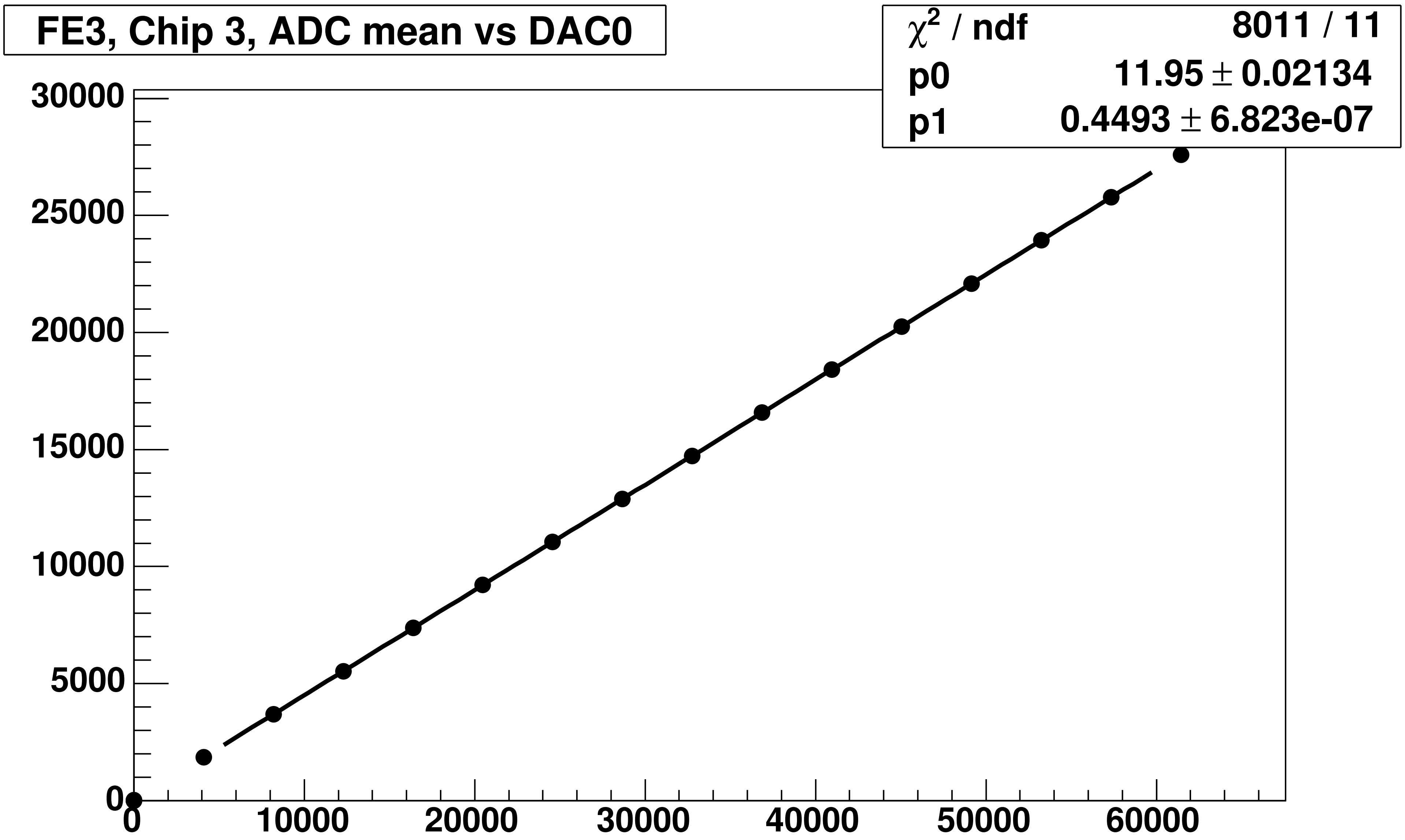
FE3, Chip 2, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

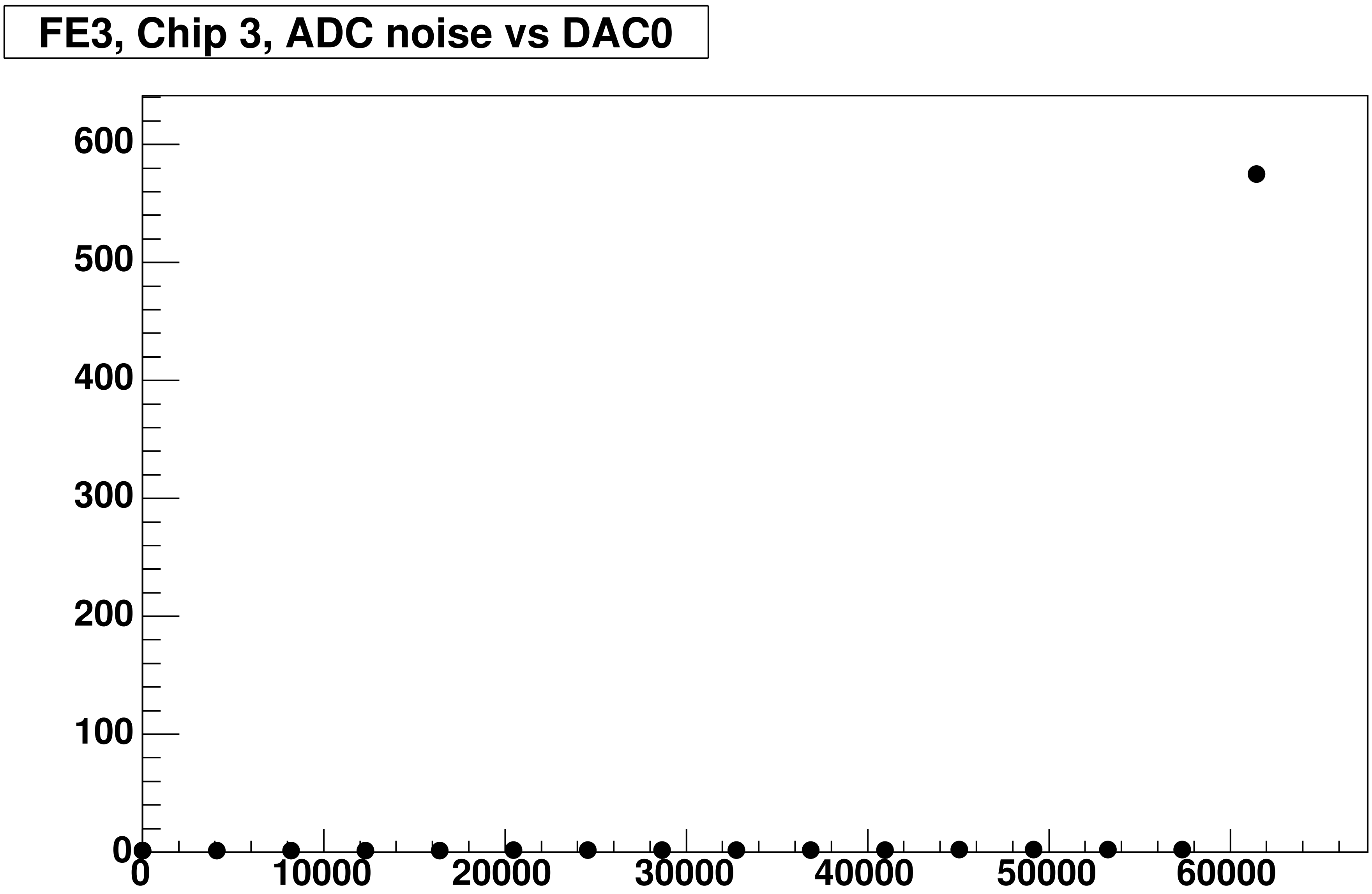


FE3, Chip 2, ADC mean vs DAC1
χ^2 / ndf 55.89 / 11
p0 11.32 ± 0.02051
p1 1.447e-06 ± 5.707e-07
12
11
10
9
8
7
6
5
0
10000
20000
30000
40000
50000
60000

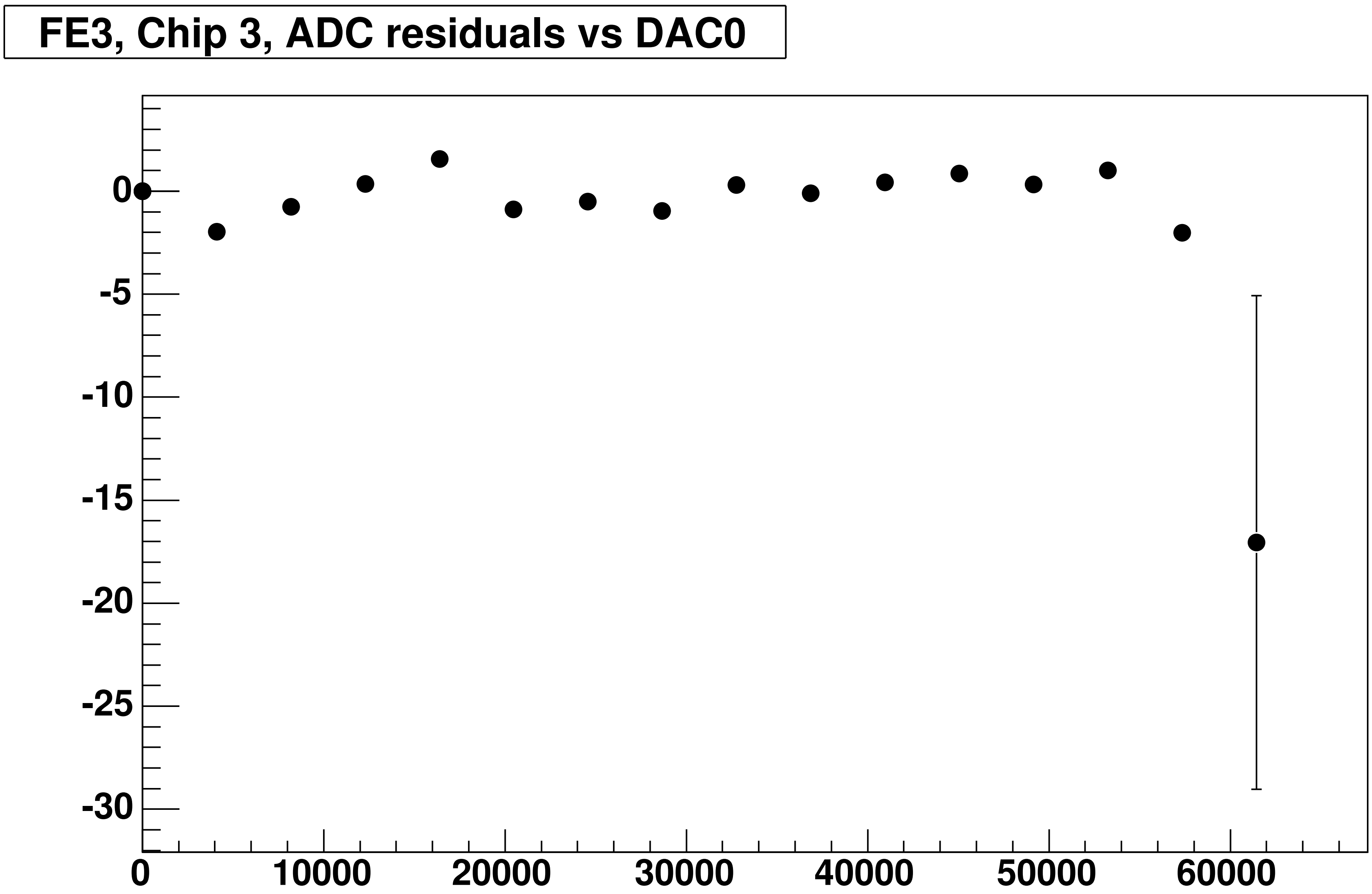

FE3, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

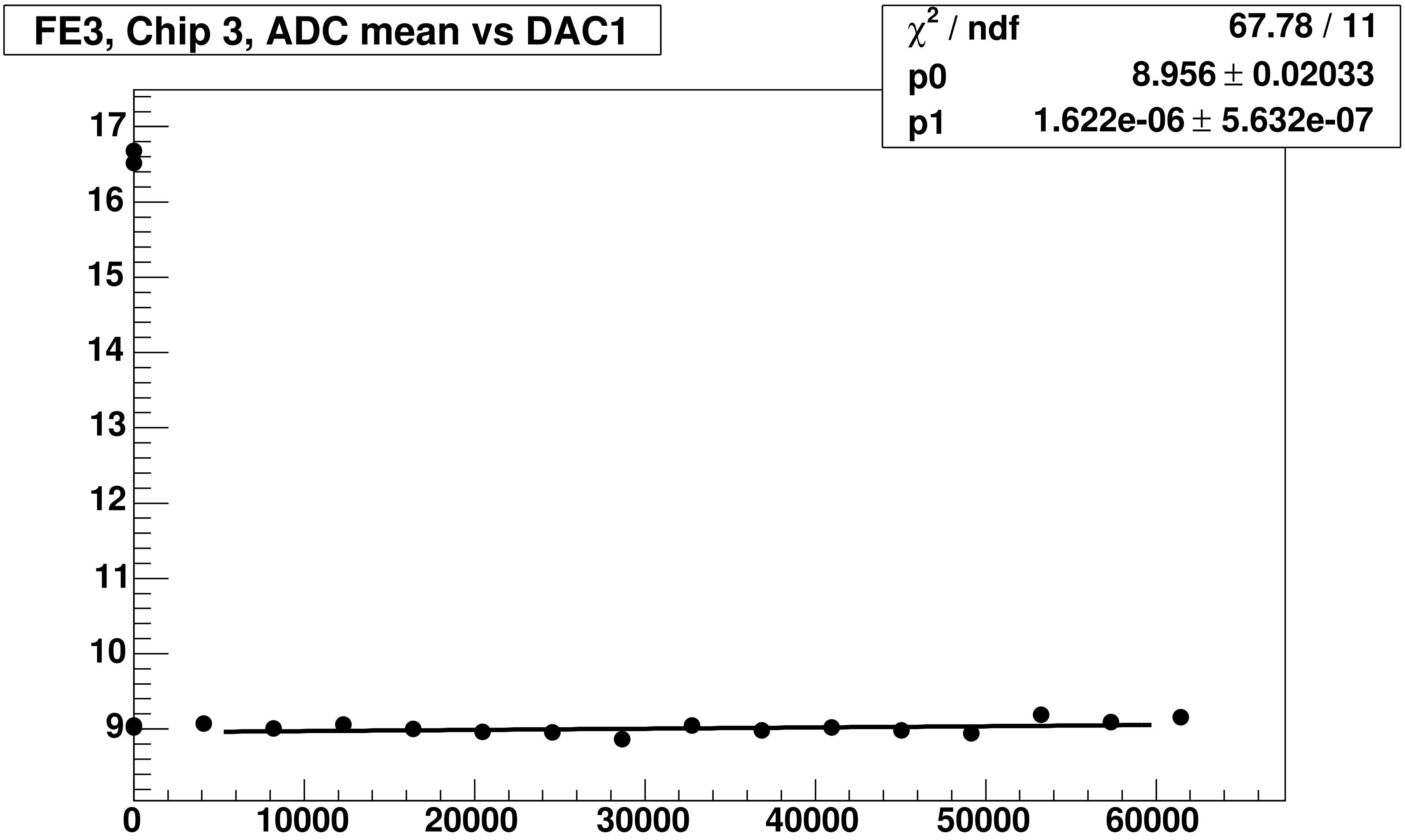

FE3, Chip 2, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000


FE3, Chip 3, ADC mean vs DAC0
χ^2 / ndf 8011 / 11
p0 11.95 ± 0.02134
p1 0.4493 ± 6.823e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

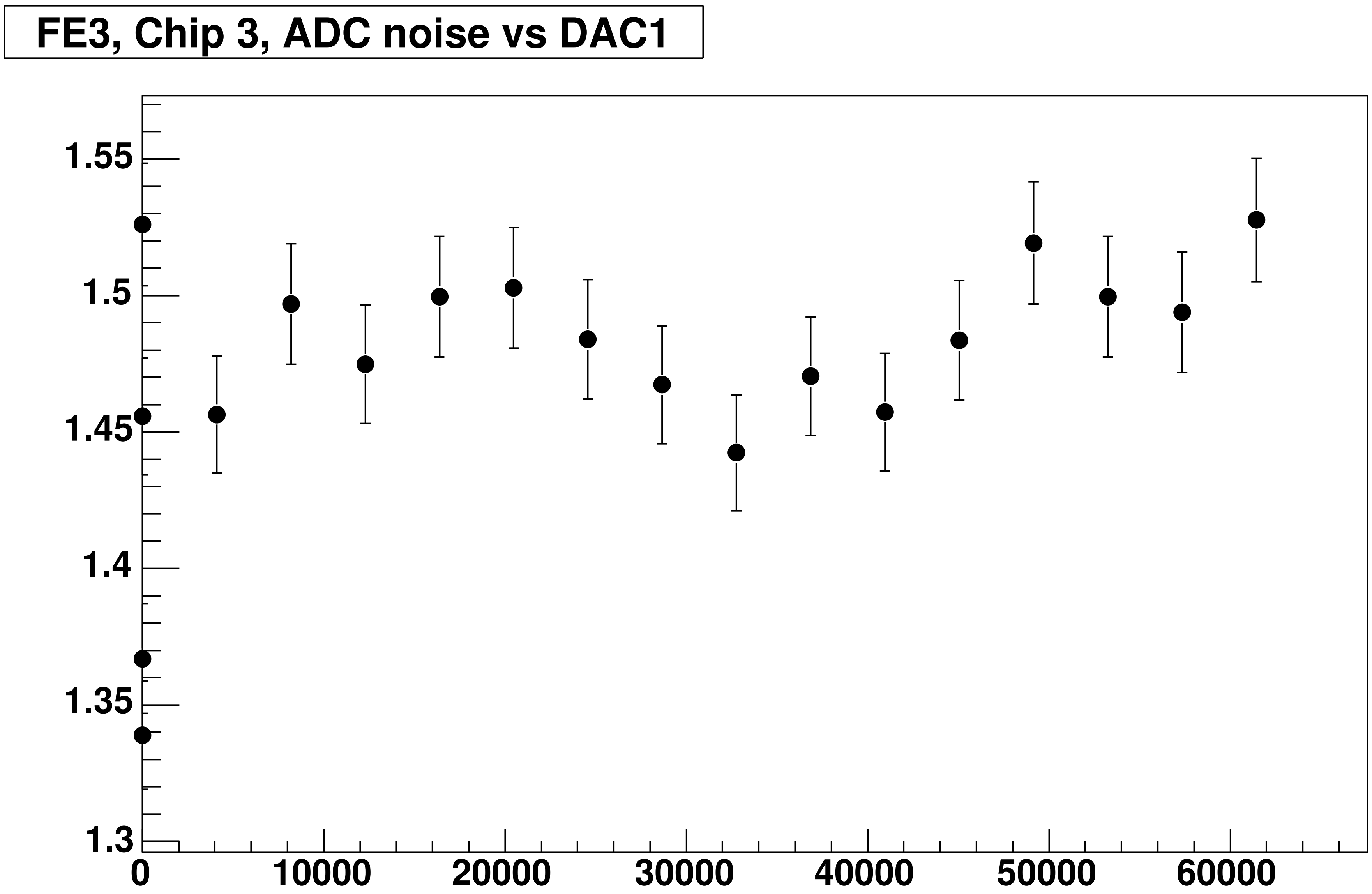


FE3, Chip 3, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

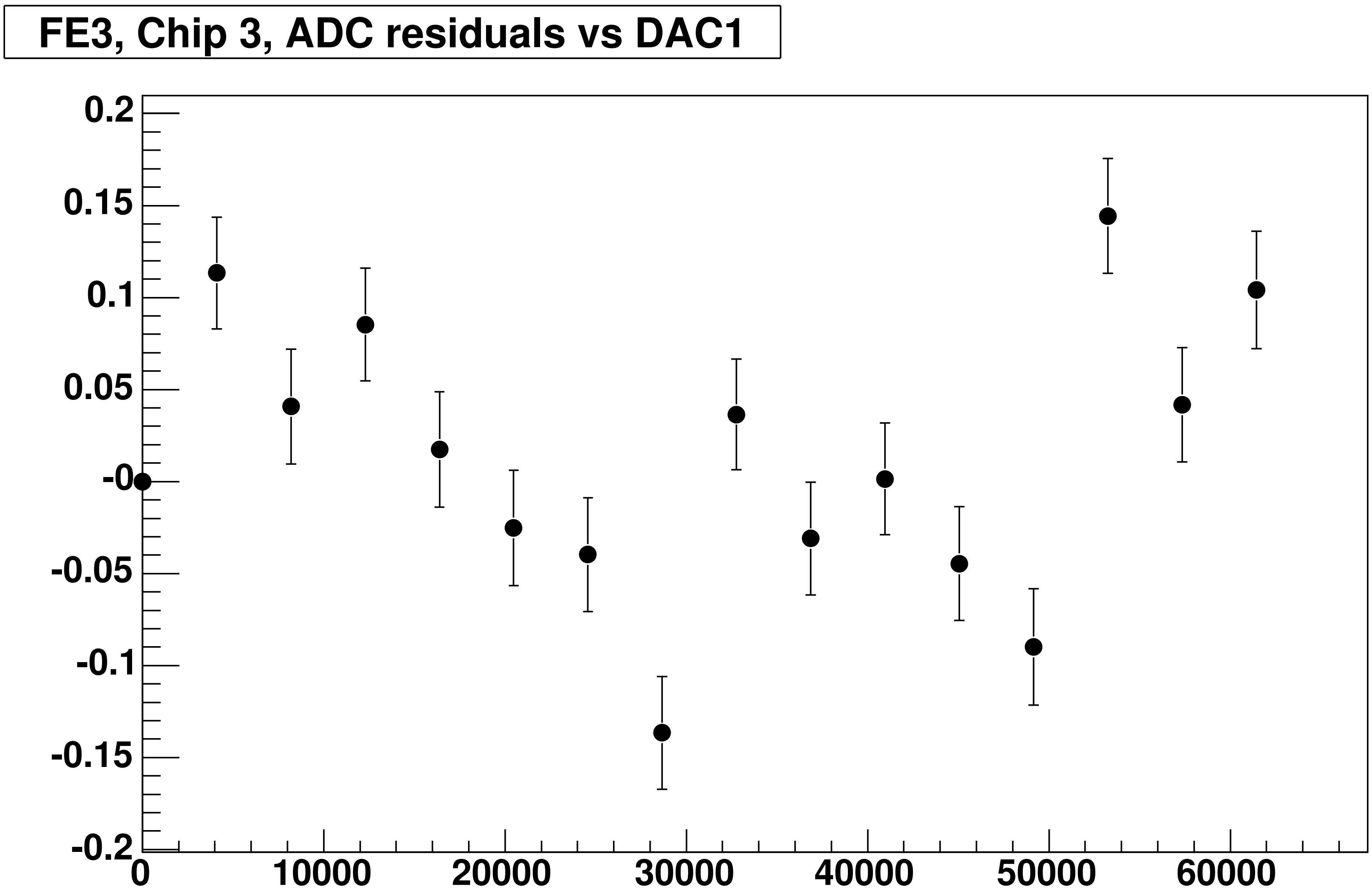

FE3, Chip 3, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000



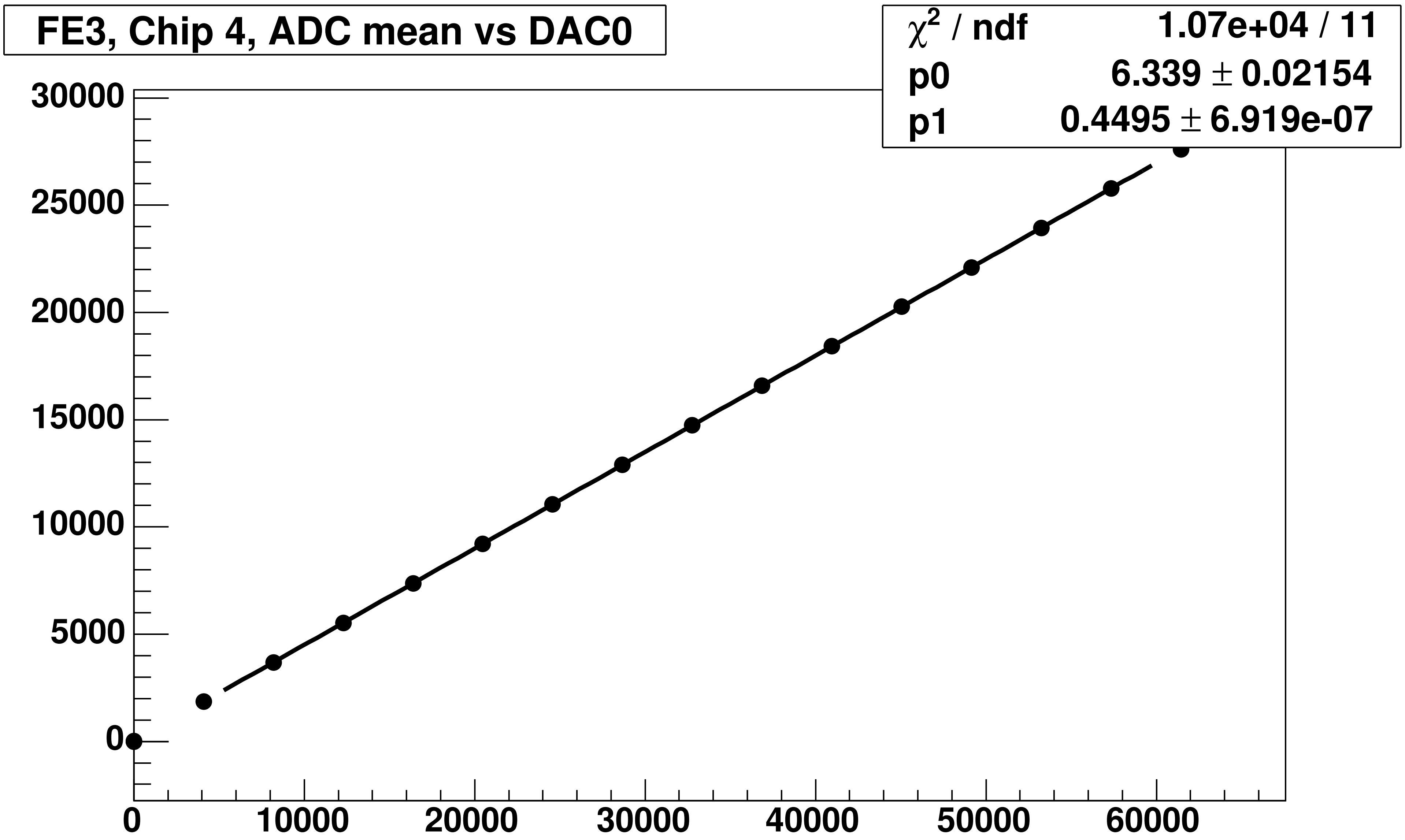
FE3, Chip 3, ADC mean vs DAC1
χ² / ndf 67.78 / 11
p0 8.956 ± 0.02033
p1 1.622e-06 ± 5.632e-07
17
16
15
14
13
12
11
10
9
0
10000
20000
30000
40000
50000
60000



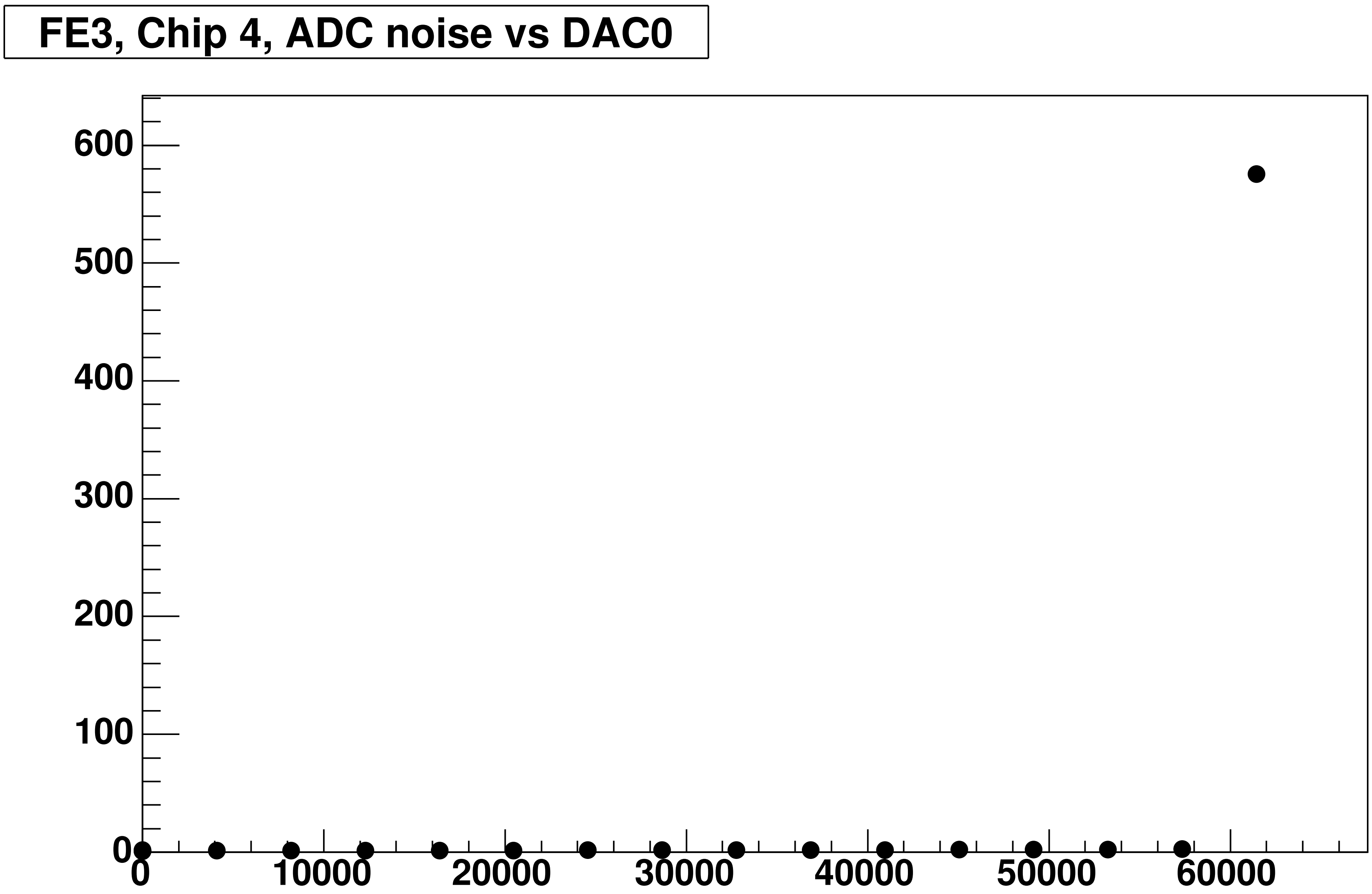
FE3, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



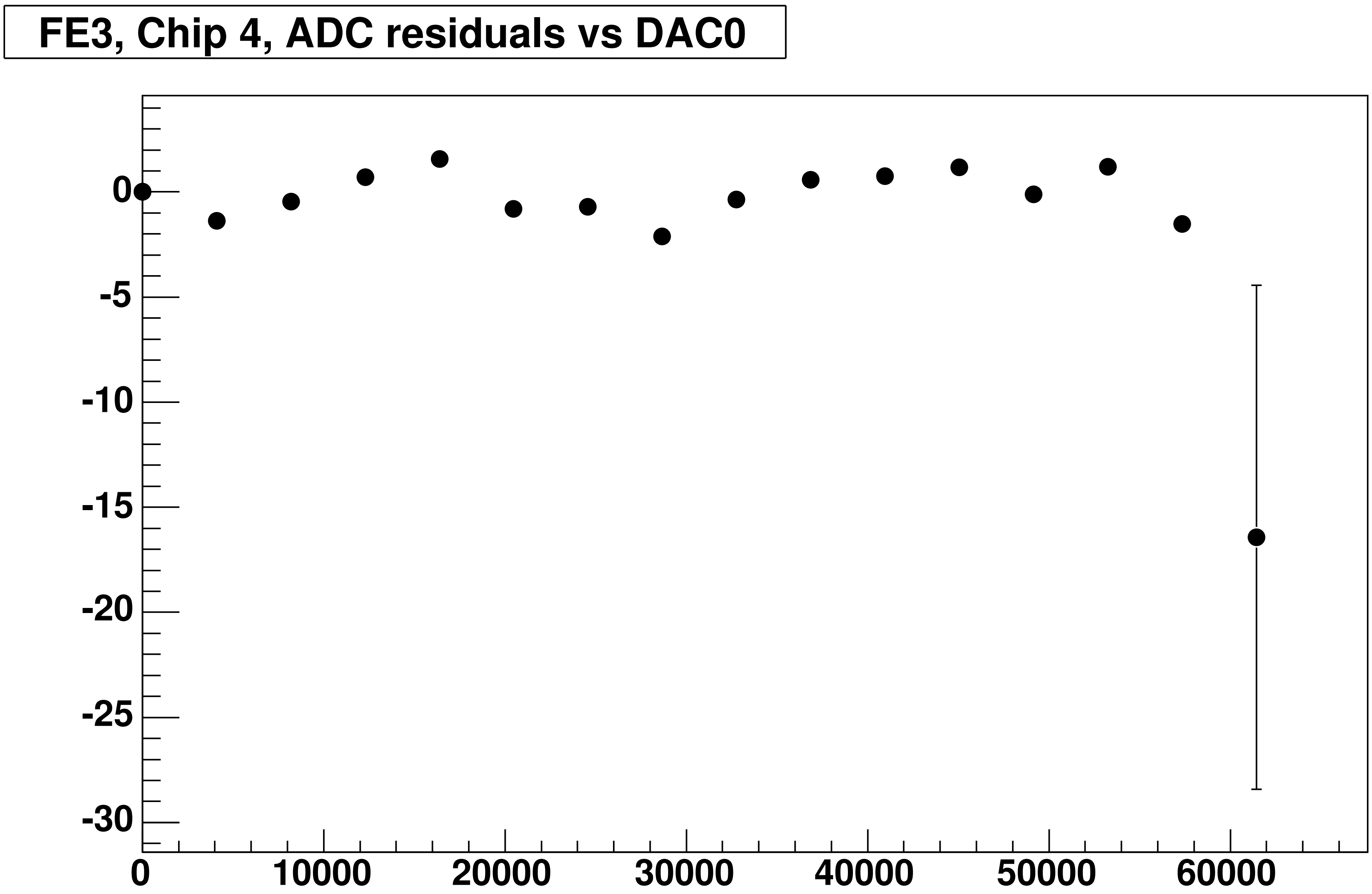
FE3, Chip 3, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

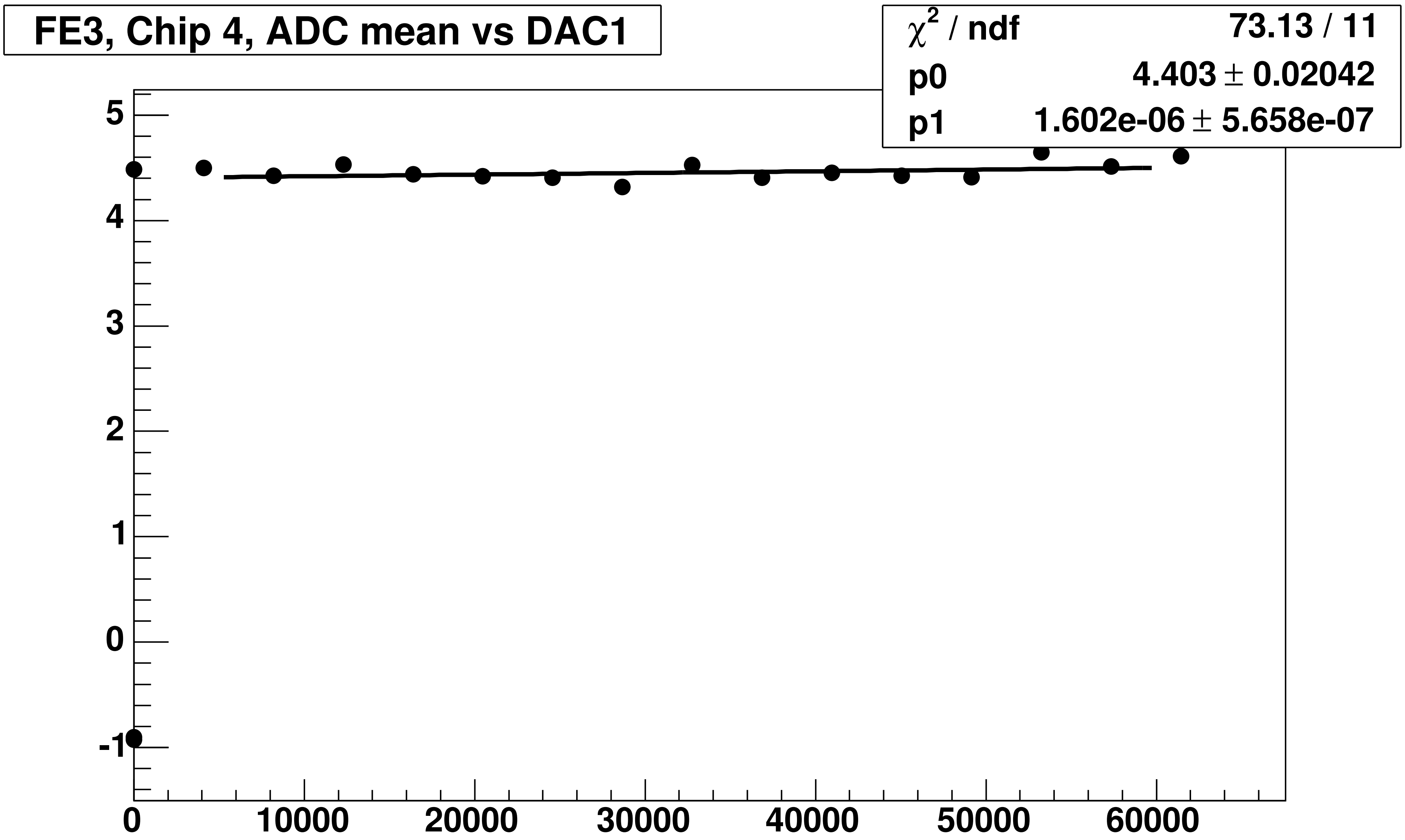


FE3, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1.07e+04 / 11
p0 6.339 ± 0.02154
p1 0.4495 ± 6.919e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

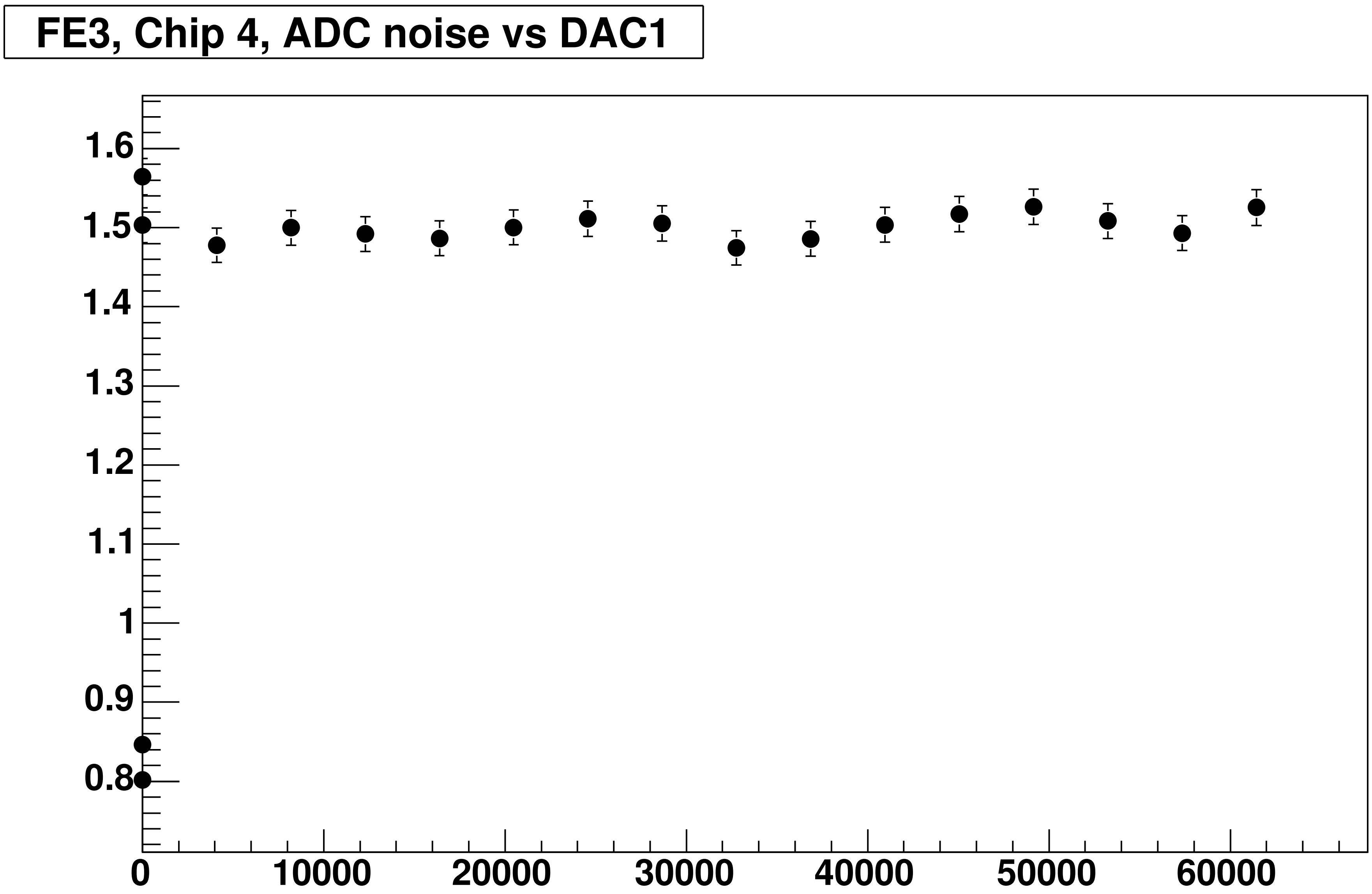


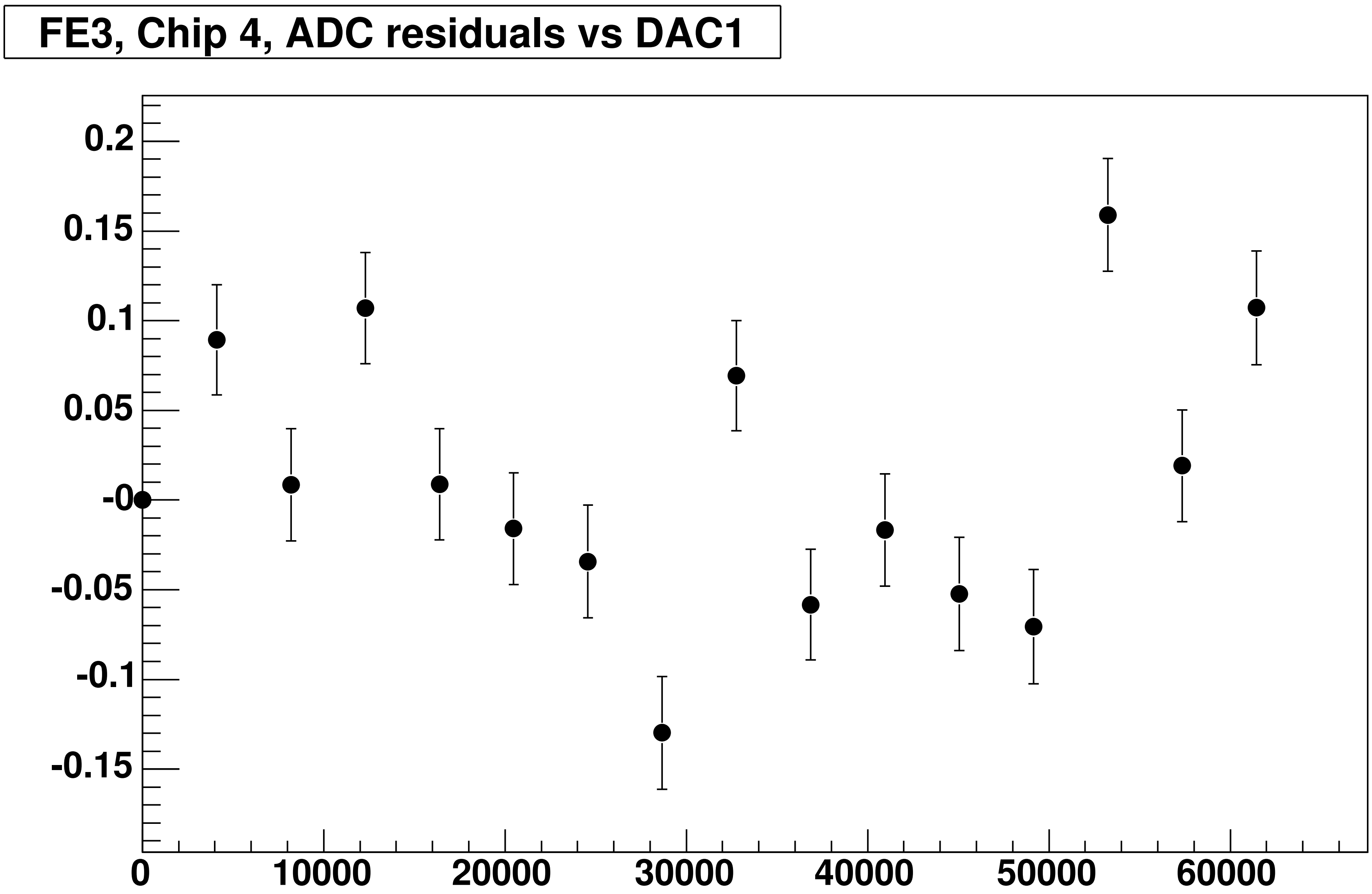
FE3, Chip 4, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

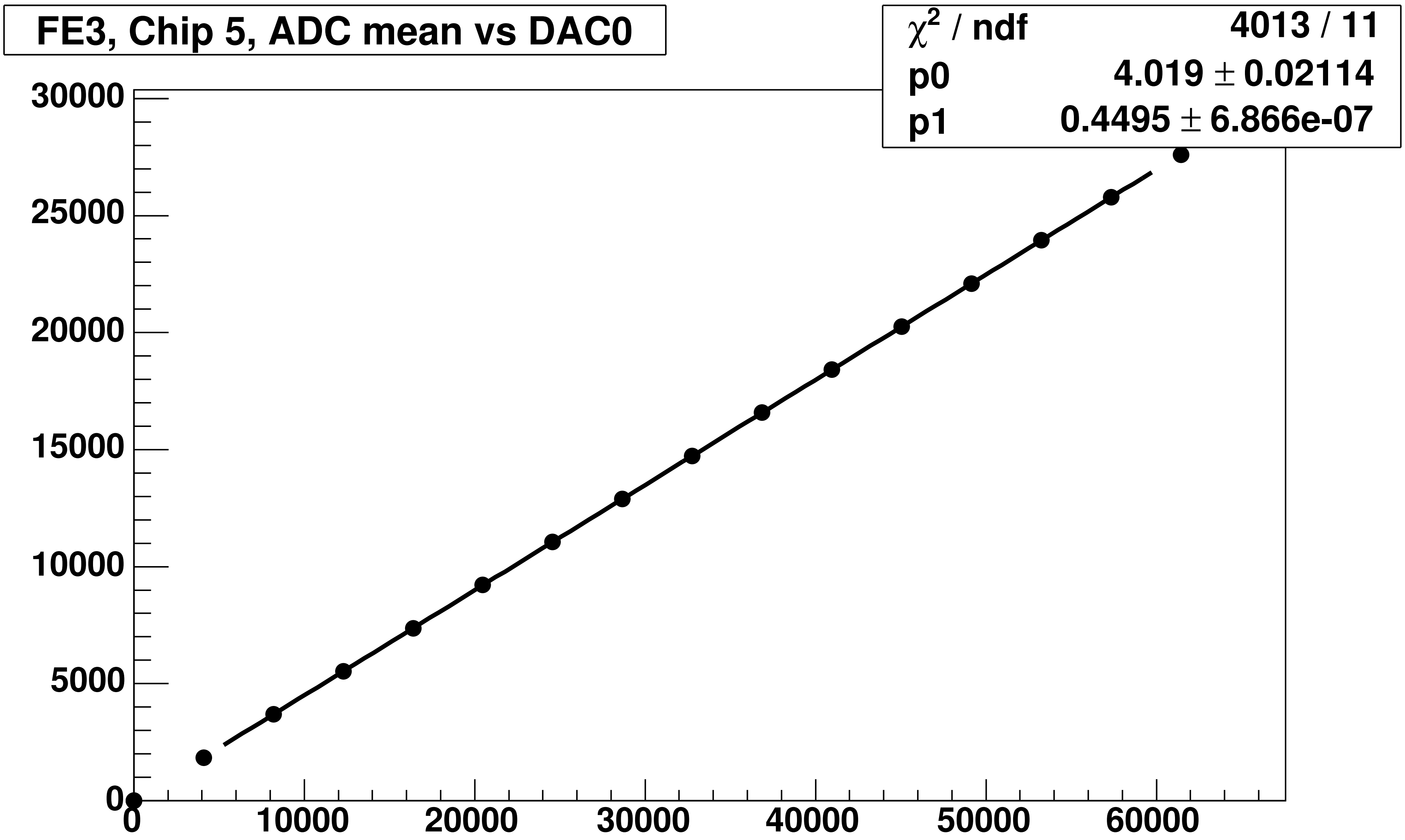

FE3, Chip 4, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000



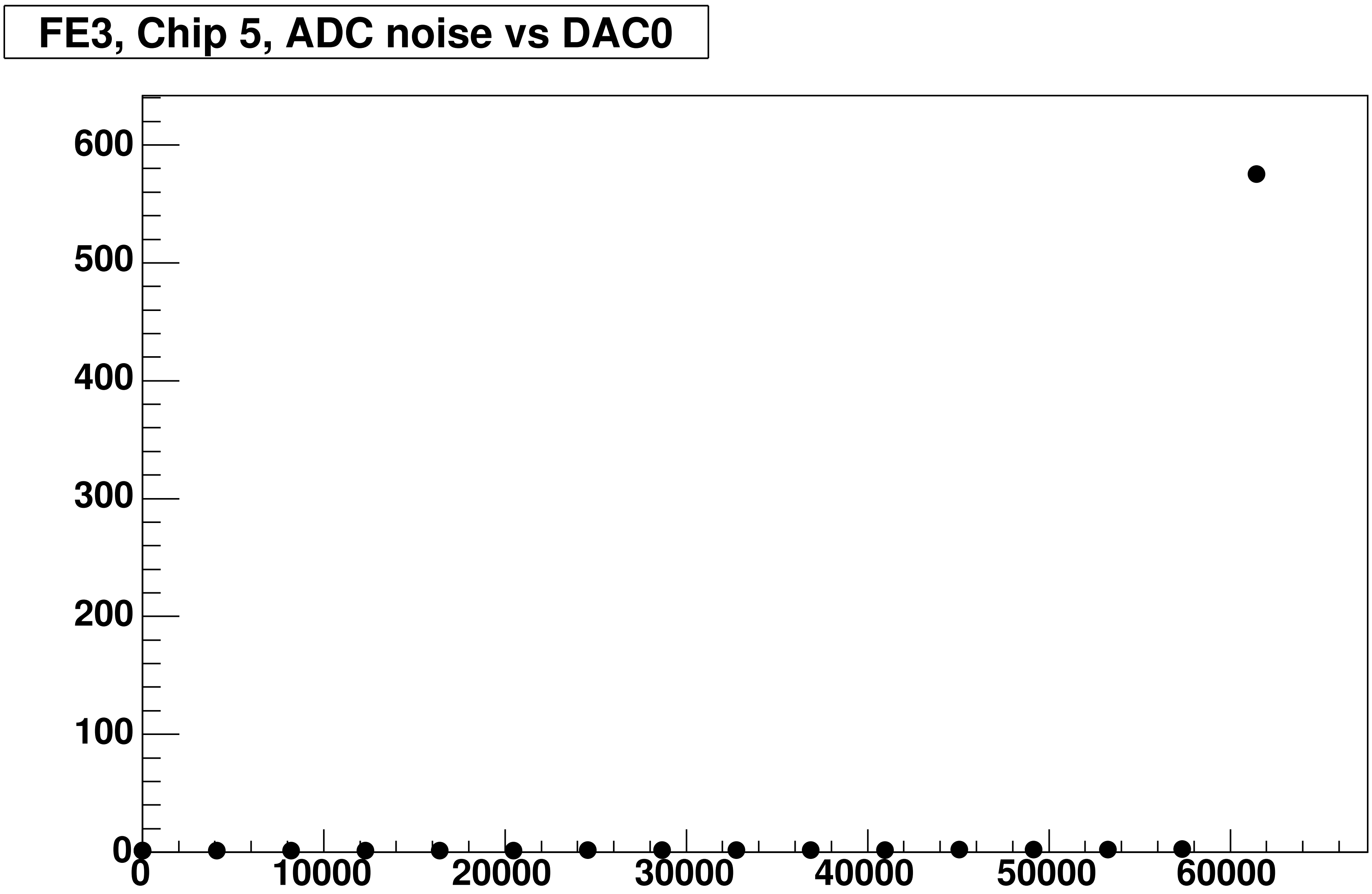
FE3, Chip 4, ADC mean vs DAC1
χ^2 / ndf 73.13 / 11
p0 4.403 ± 0.02042
p1 1.602e-06 ± 5.658e-07
5
4
3
2
1
0
-1
0
10000
20000
30000
40000
50000
60000

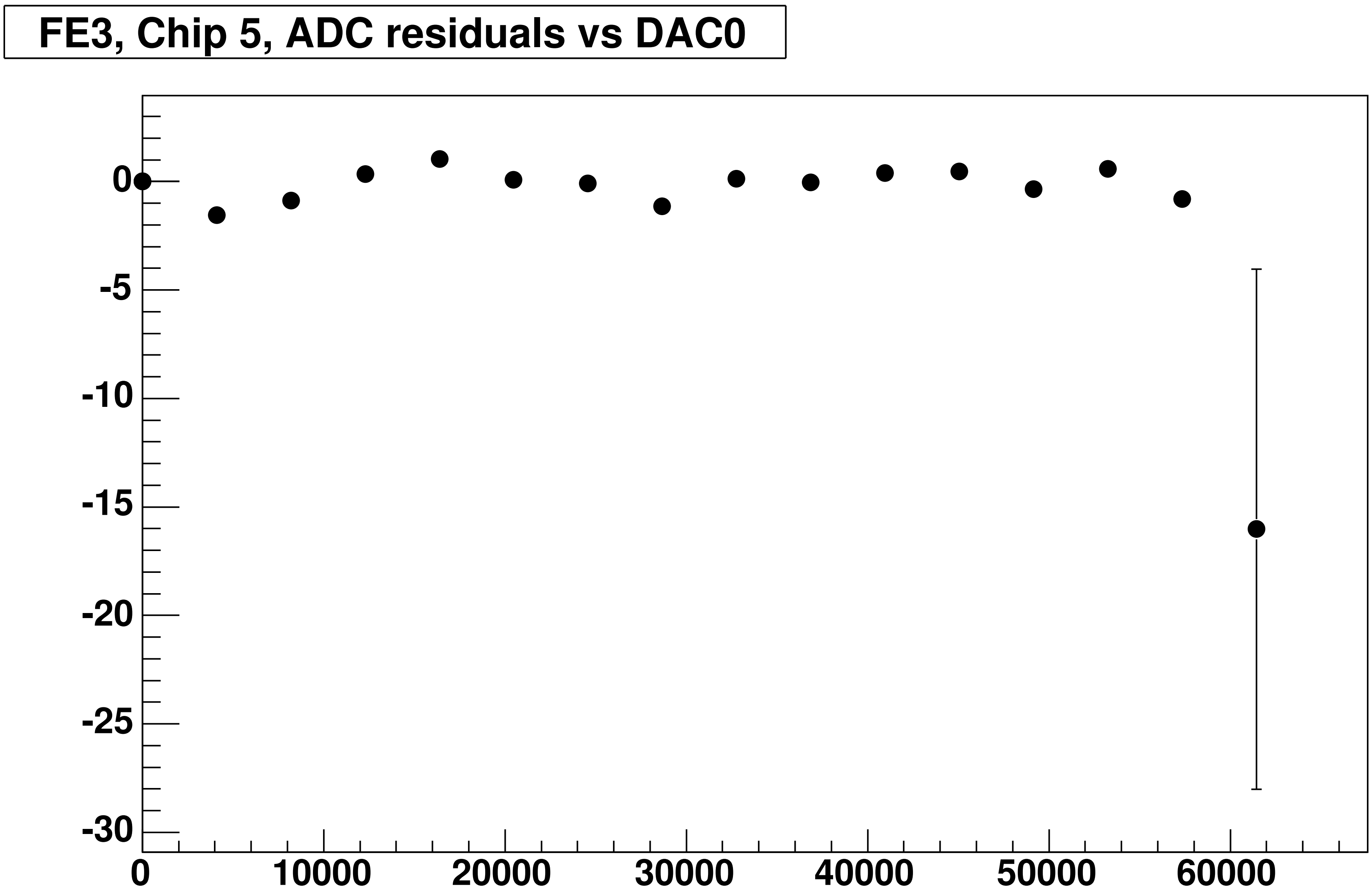

FE3, Chip 4, ADC noise vs DAC1
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0
10000
20000
30000
40000
50000
60000


FE3, Chip 4, 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

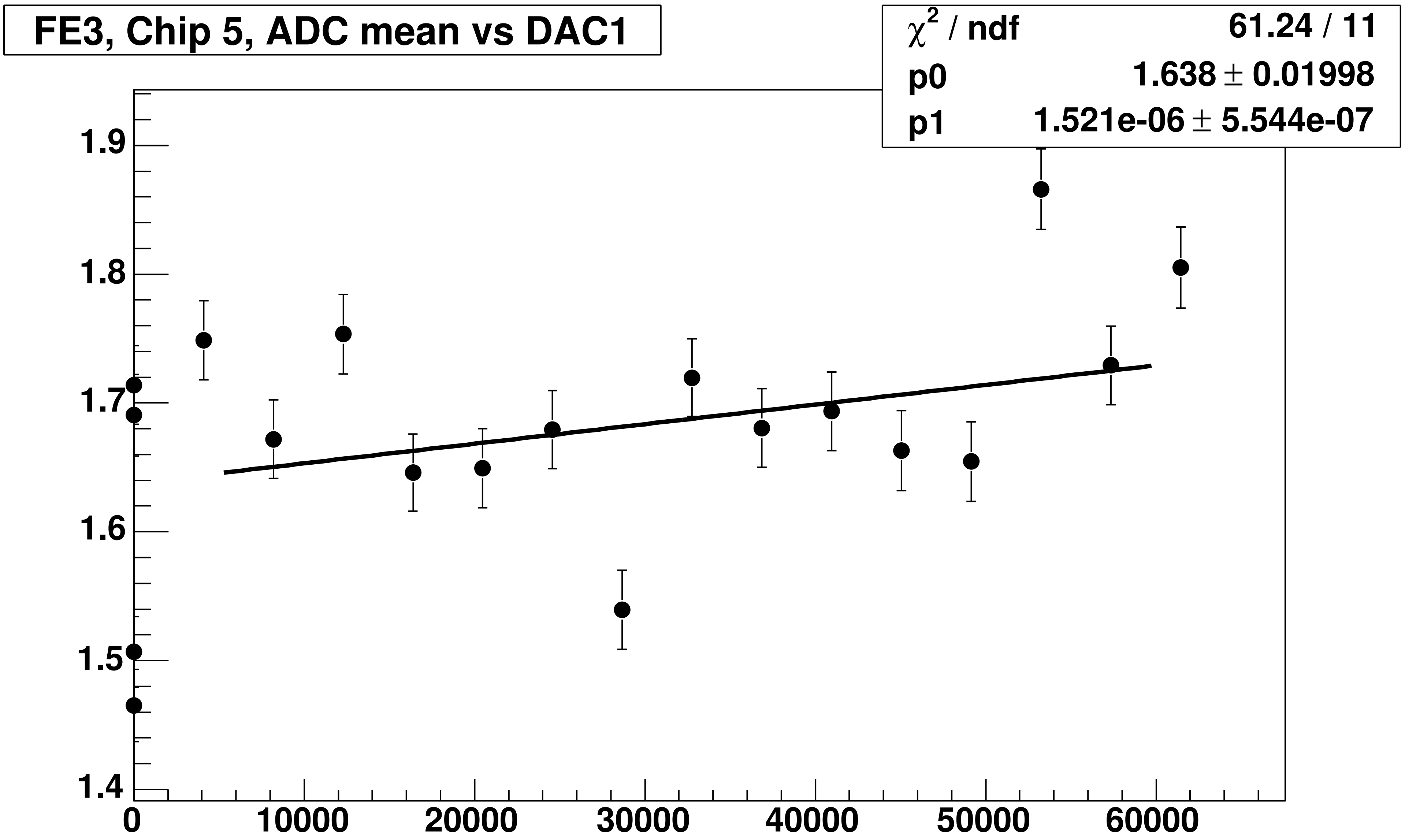


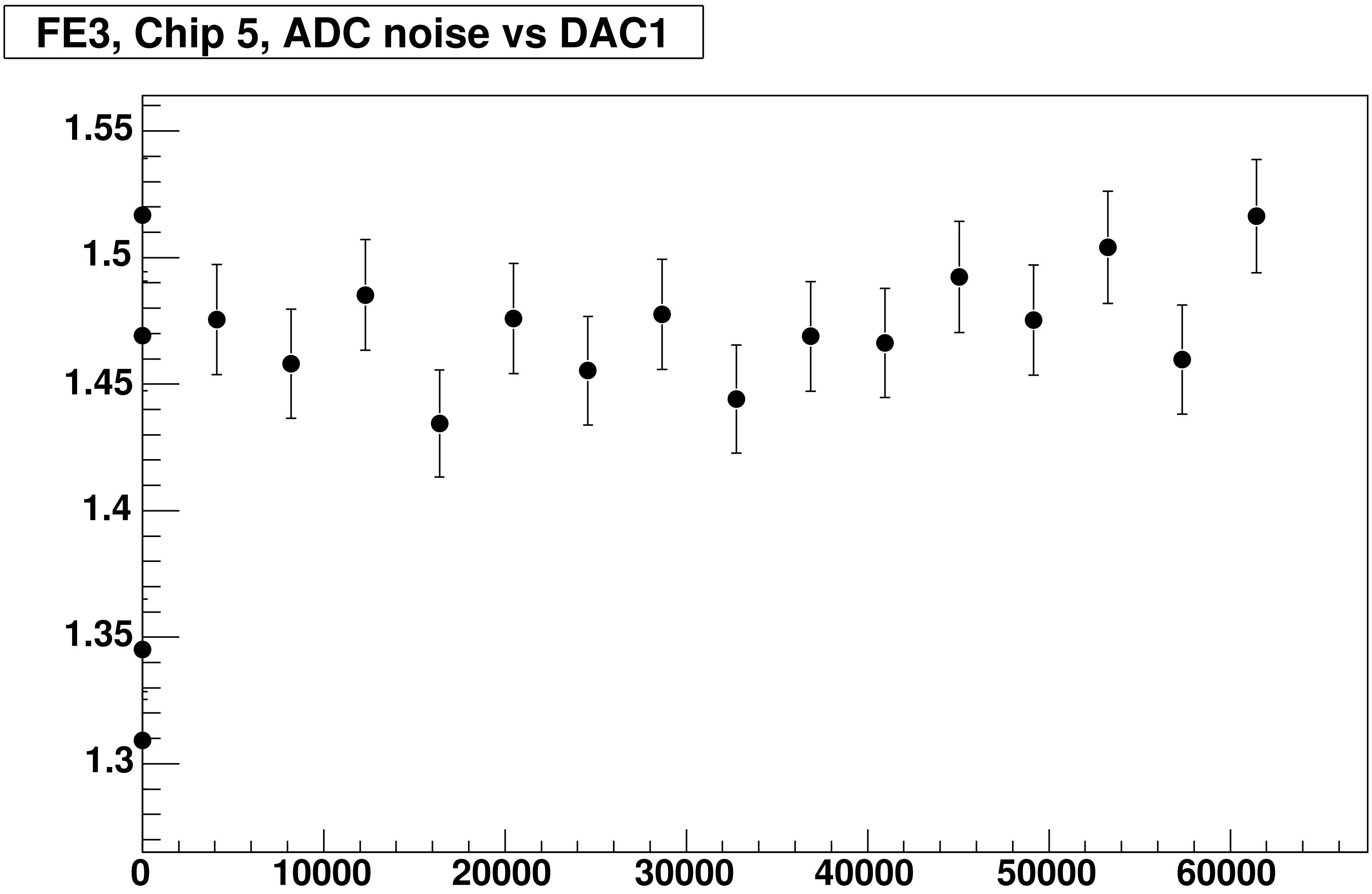
FE3, Chip 5, ADC mean vs DAC0
χ^2 / ndf 4013 / 11
p0 4.019 ± 0.02114
p1 0.4495 ± 6.866e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

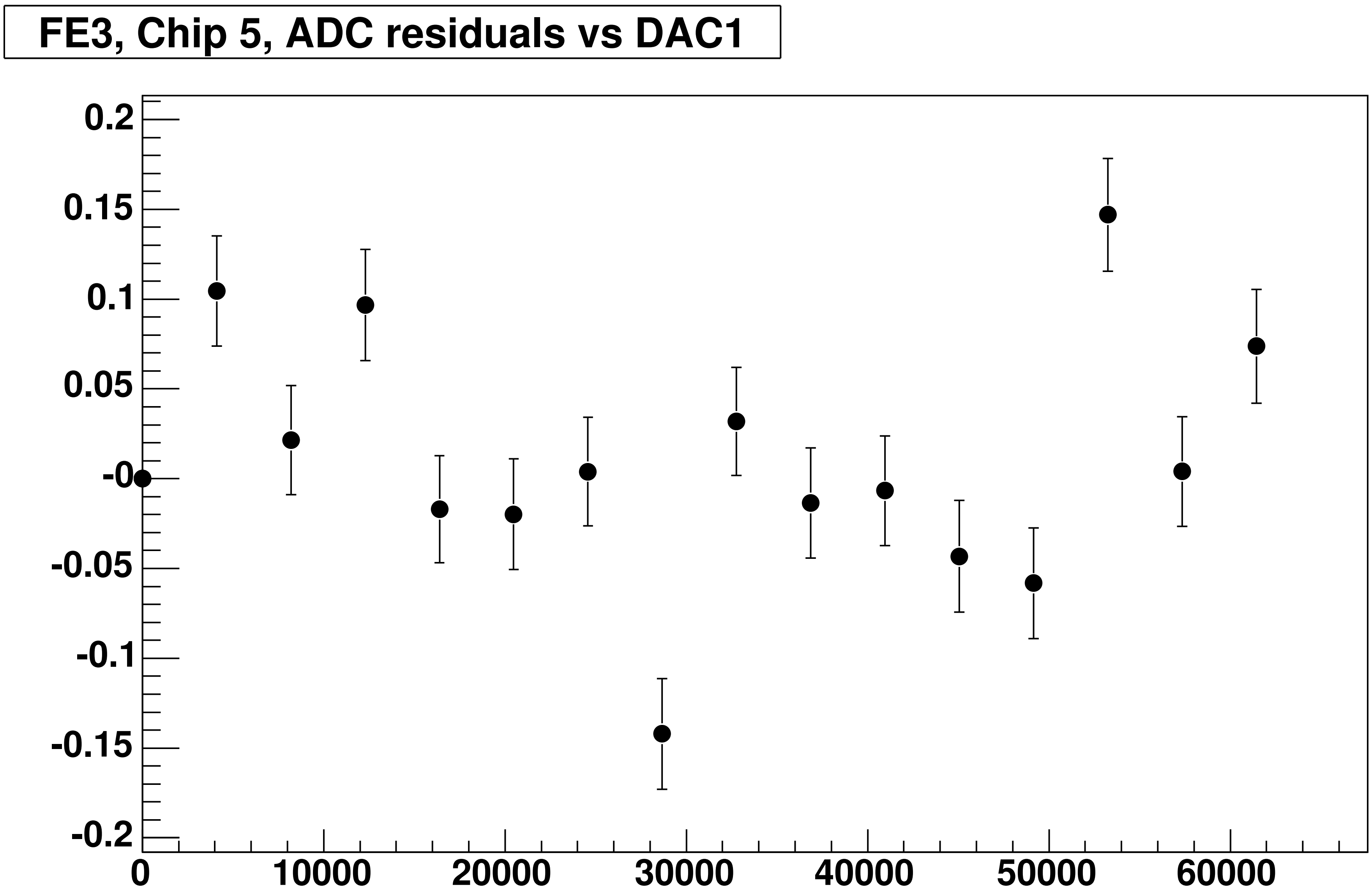

FE3, Chip 5, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000



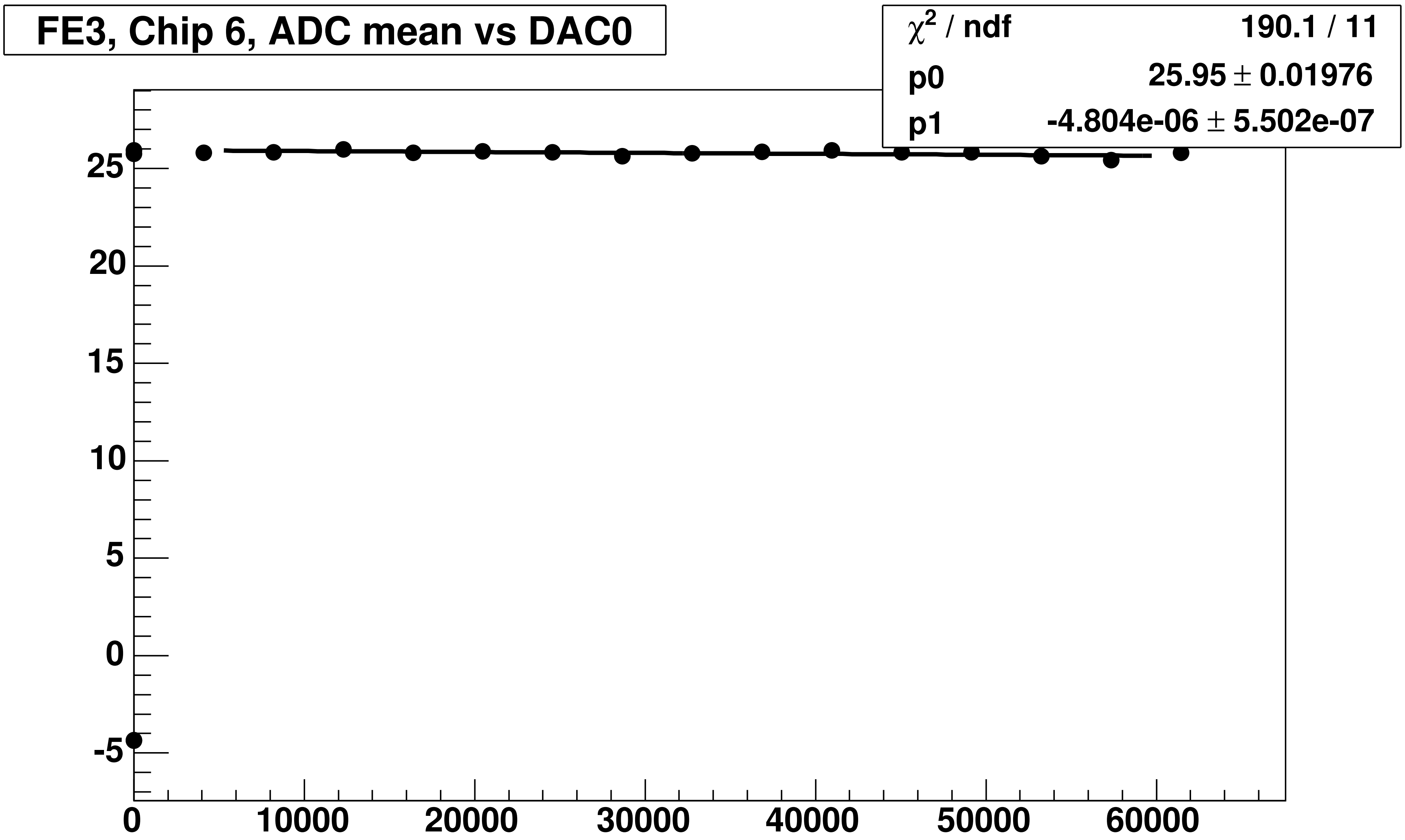
FE3, Chip 5, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000


FE3, Chip 5, ADC mean vs DAC1
χ^2 / ndf 61.24 / 11
p0 1.638 ± 0.01998
p1 1.521e-06 ± 5.544e-07
1.4
1.5
1.6
1.7
1.8
1.9
0
10000
20000
30000
40000
50000
60000

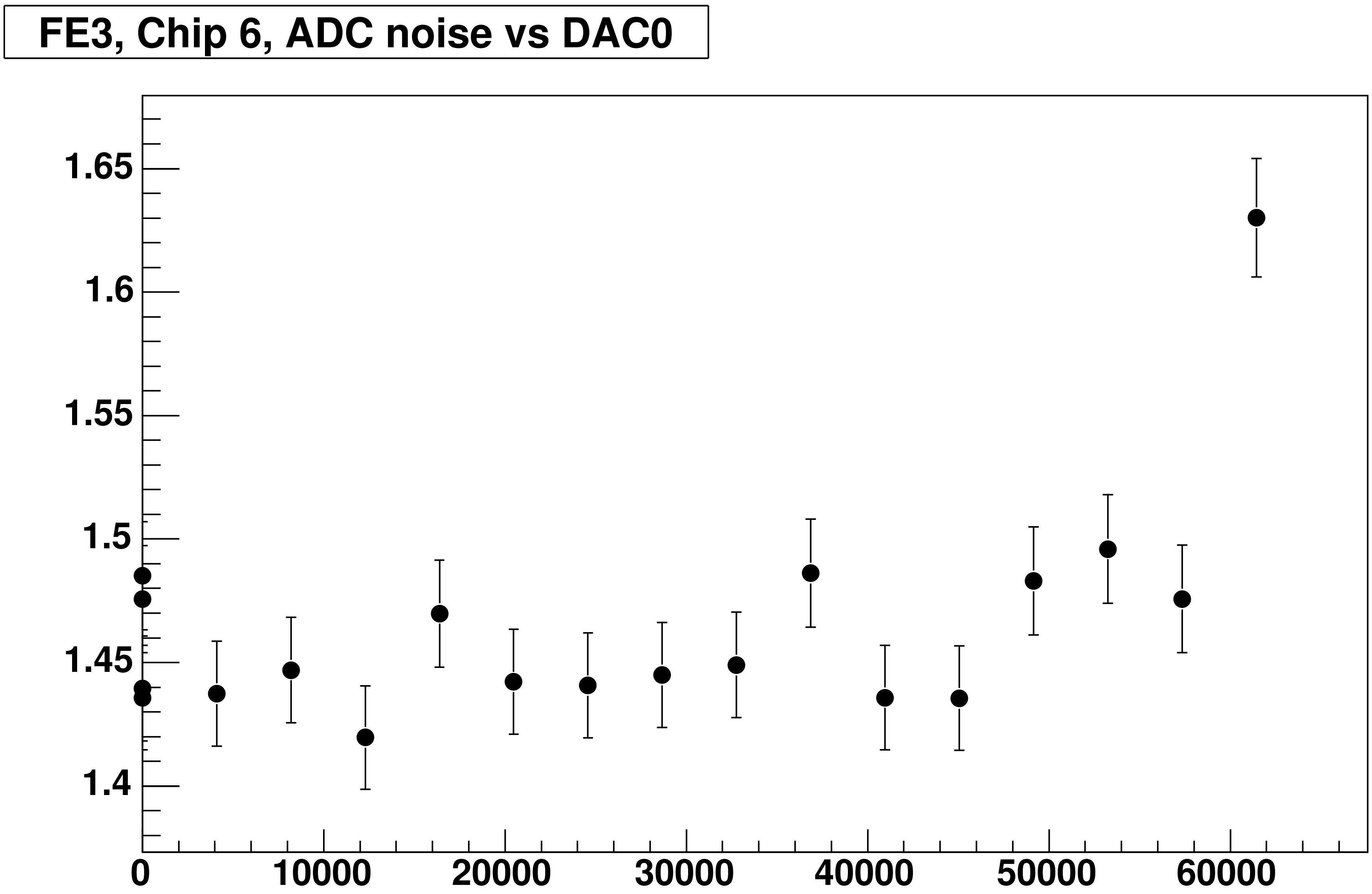

FE3, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

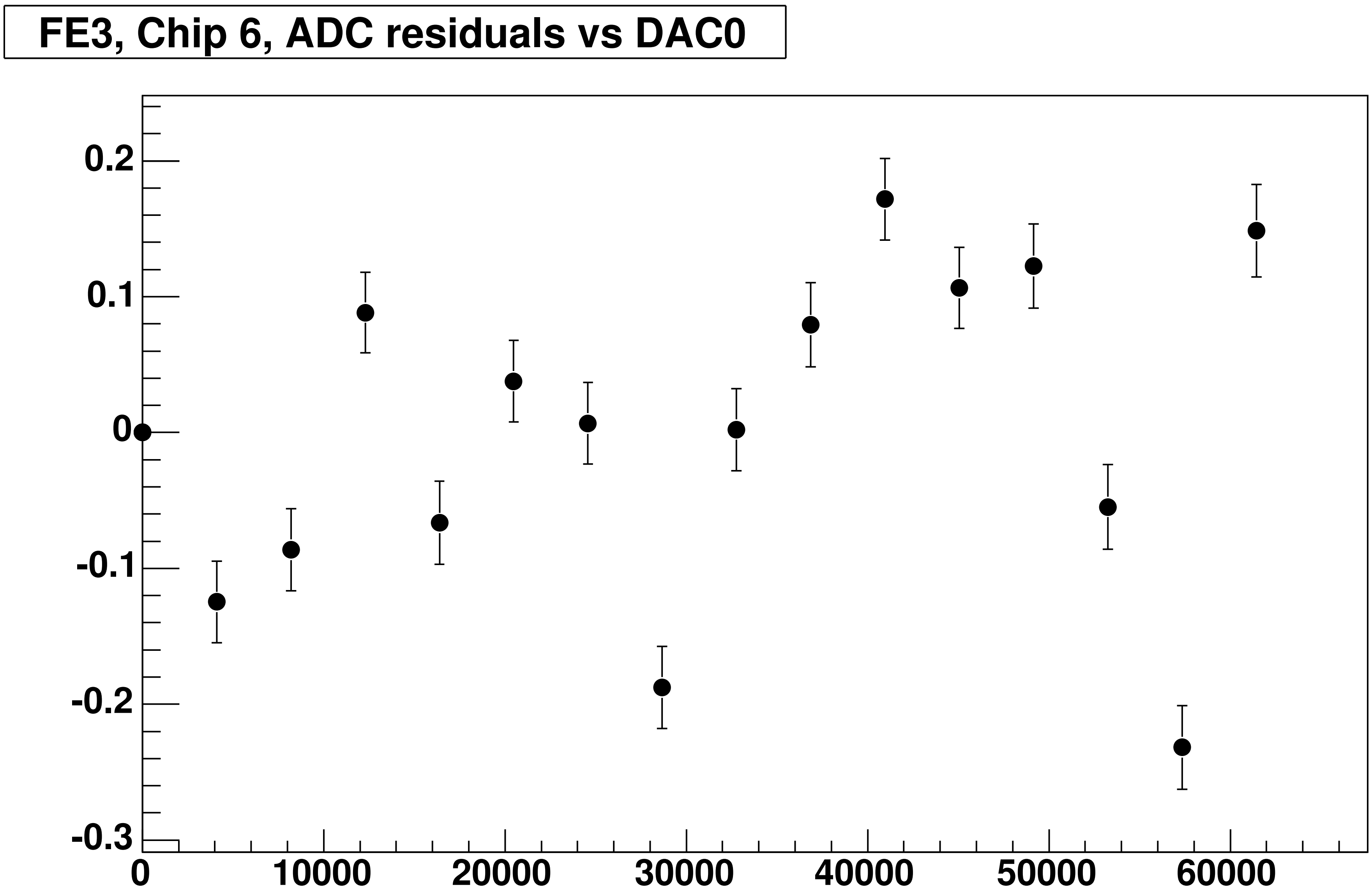


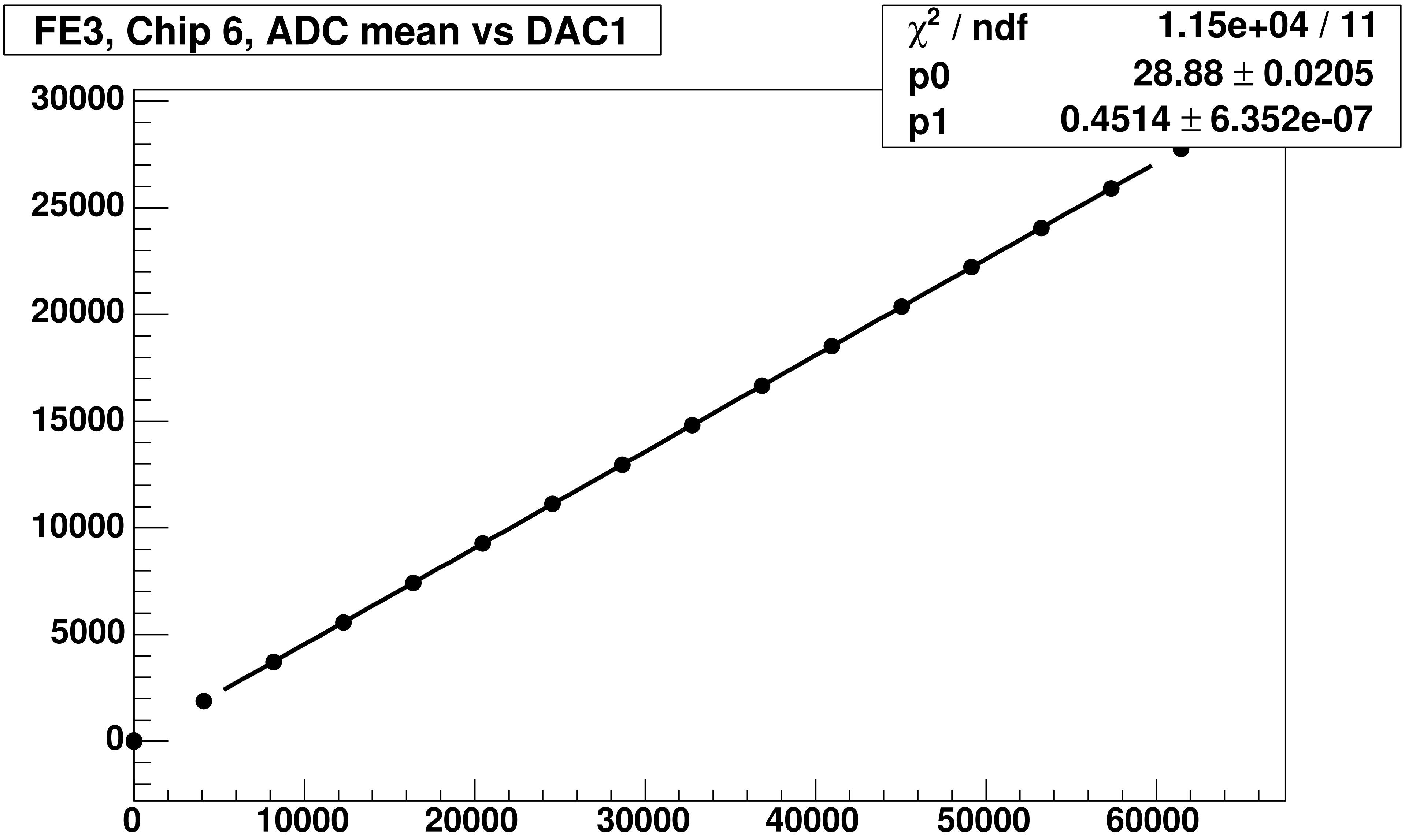
FE3, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



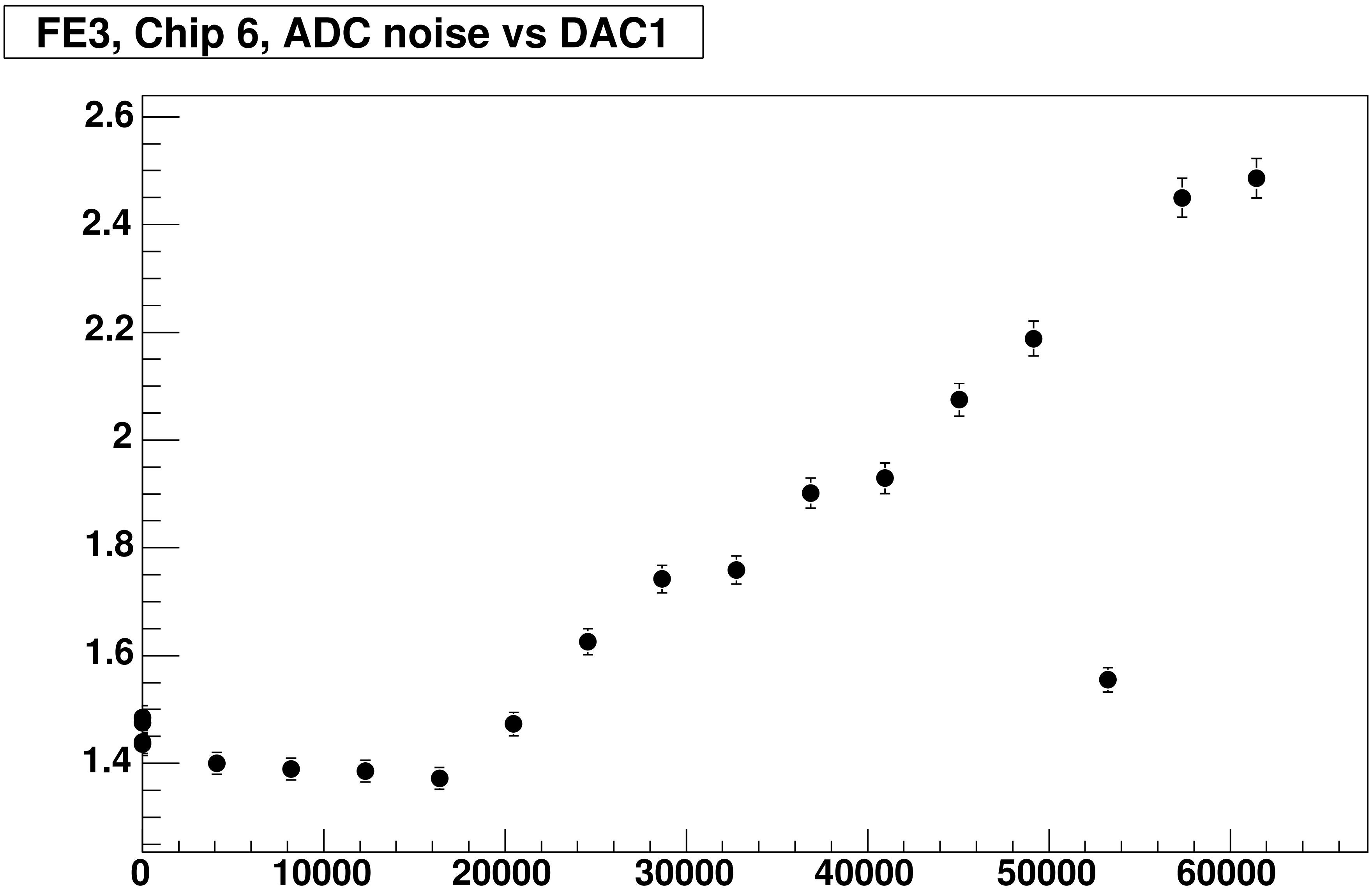
FE3, Chip 6, ADC mean vs DAC0
χ^2 / ndf 190.1 / 11
p0 25.95 ± 0.01976
p1 -4.804e-06 ± 5.502e-07
25
20
15
10
5
0
-5
0
10000
20000
30000
40000
50000
60000

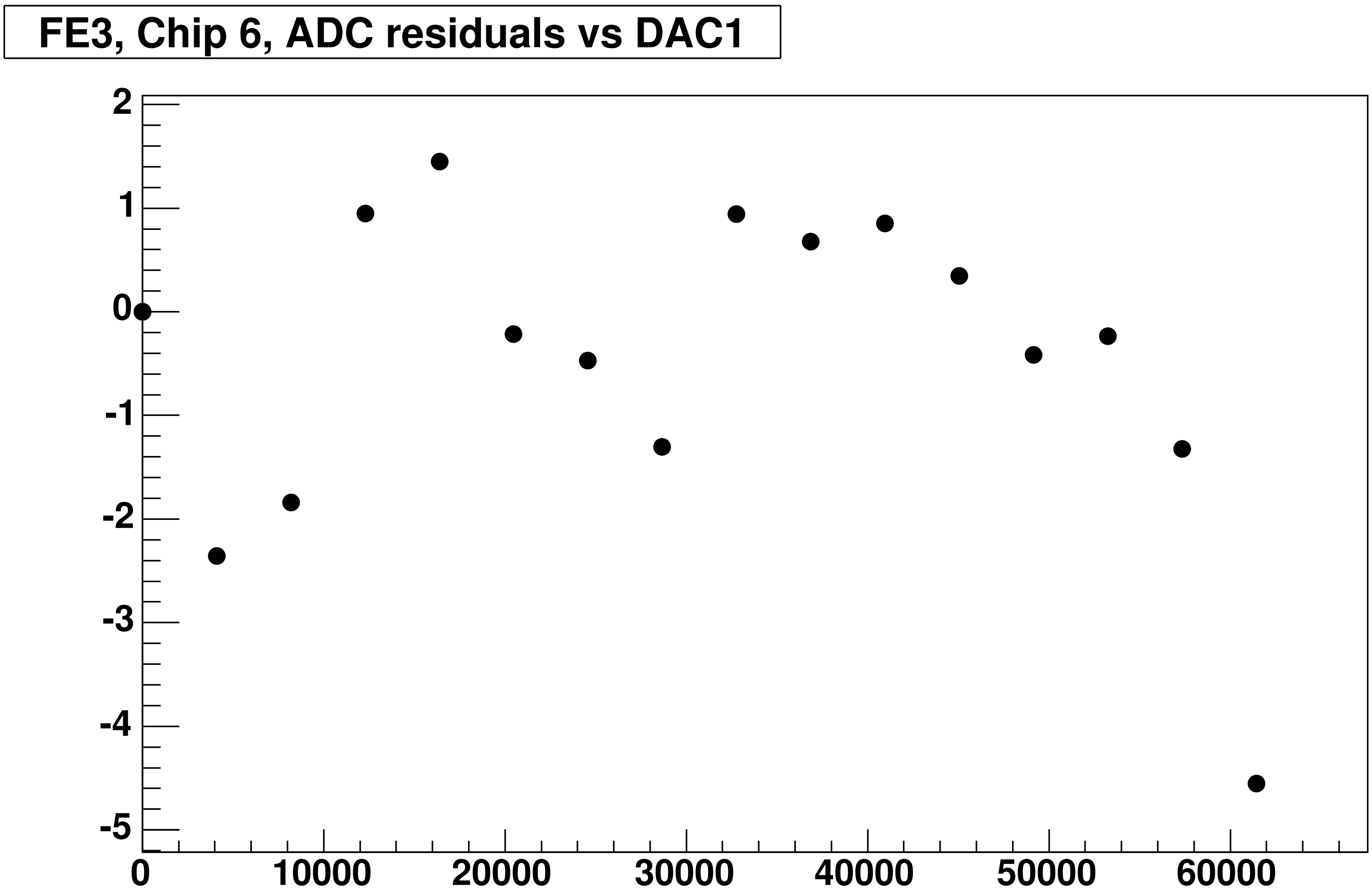

FE3, Chip 6, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

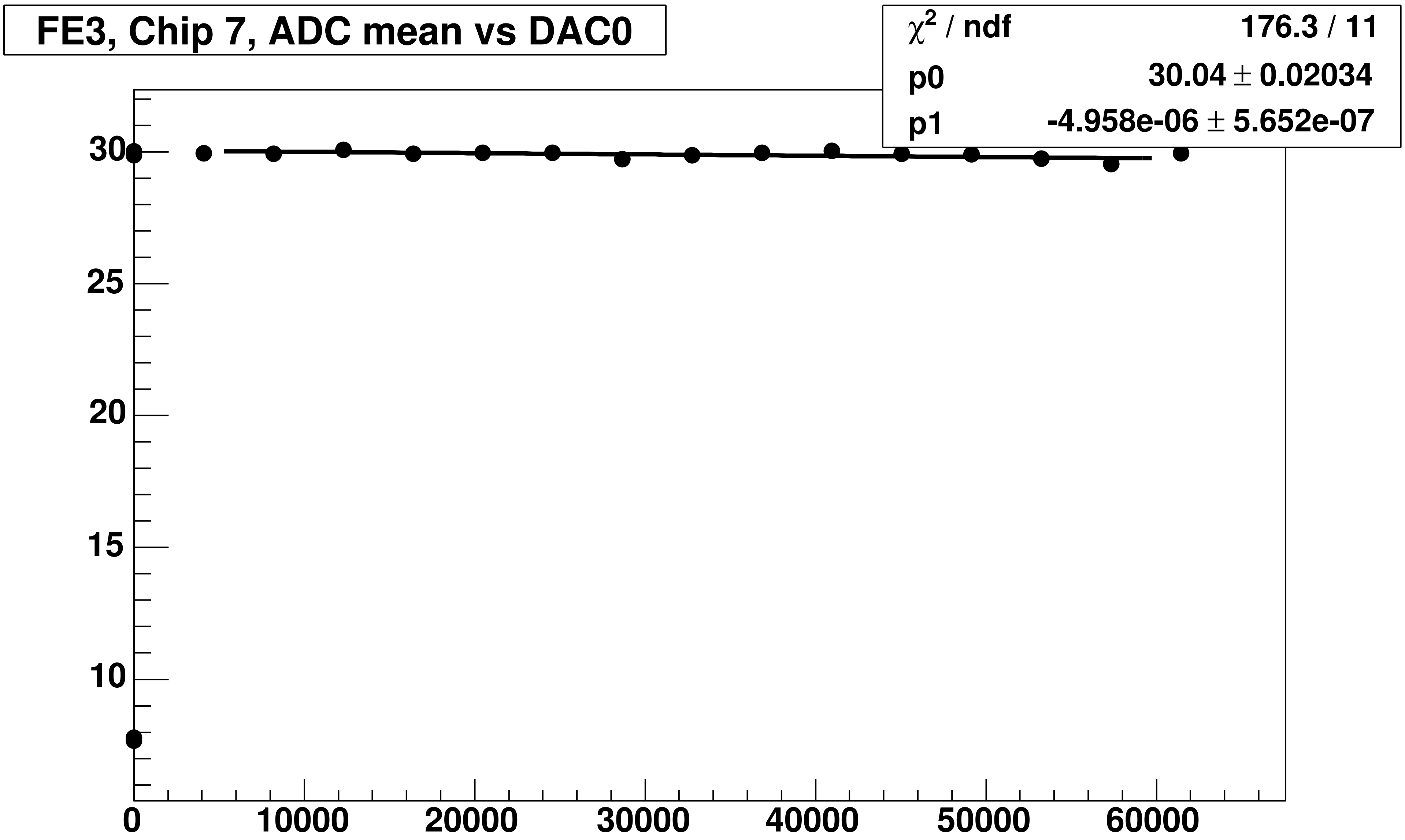

FE3, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



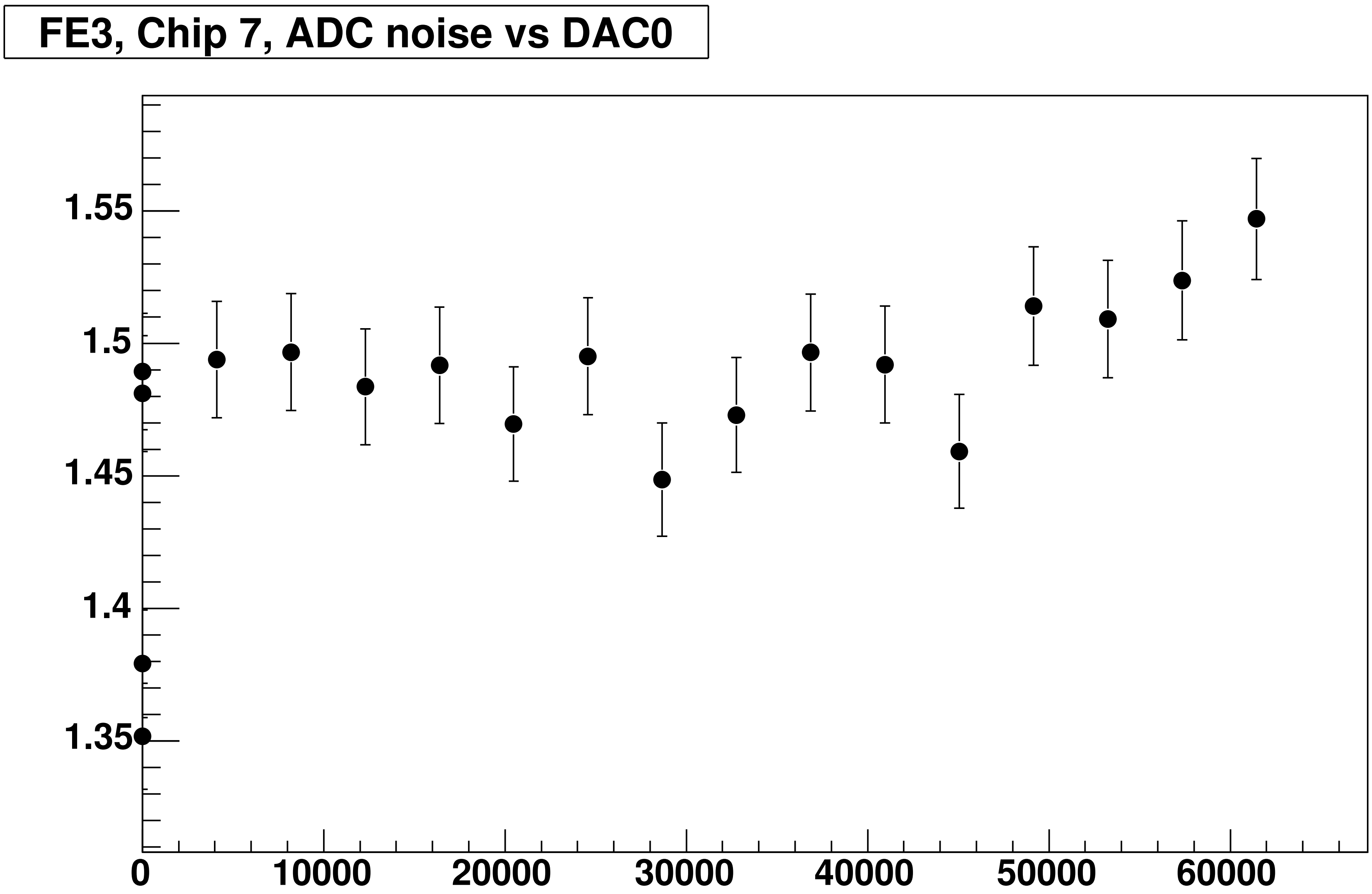
FE3, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1.15e+04 / 11
p0 28.88 ± 0.0205
p1 0.4514 ± 6.352e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

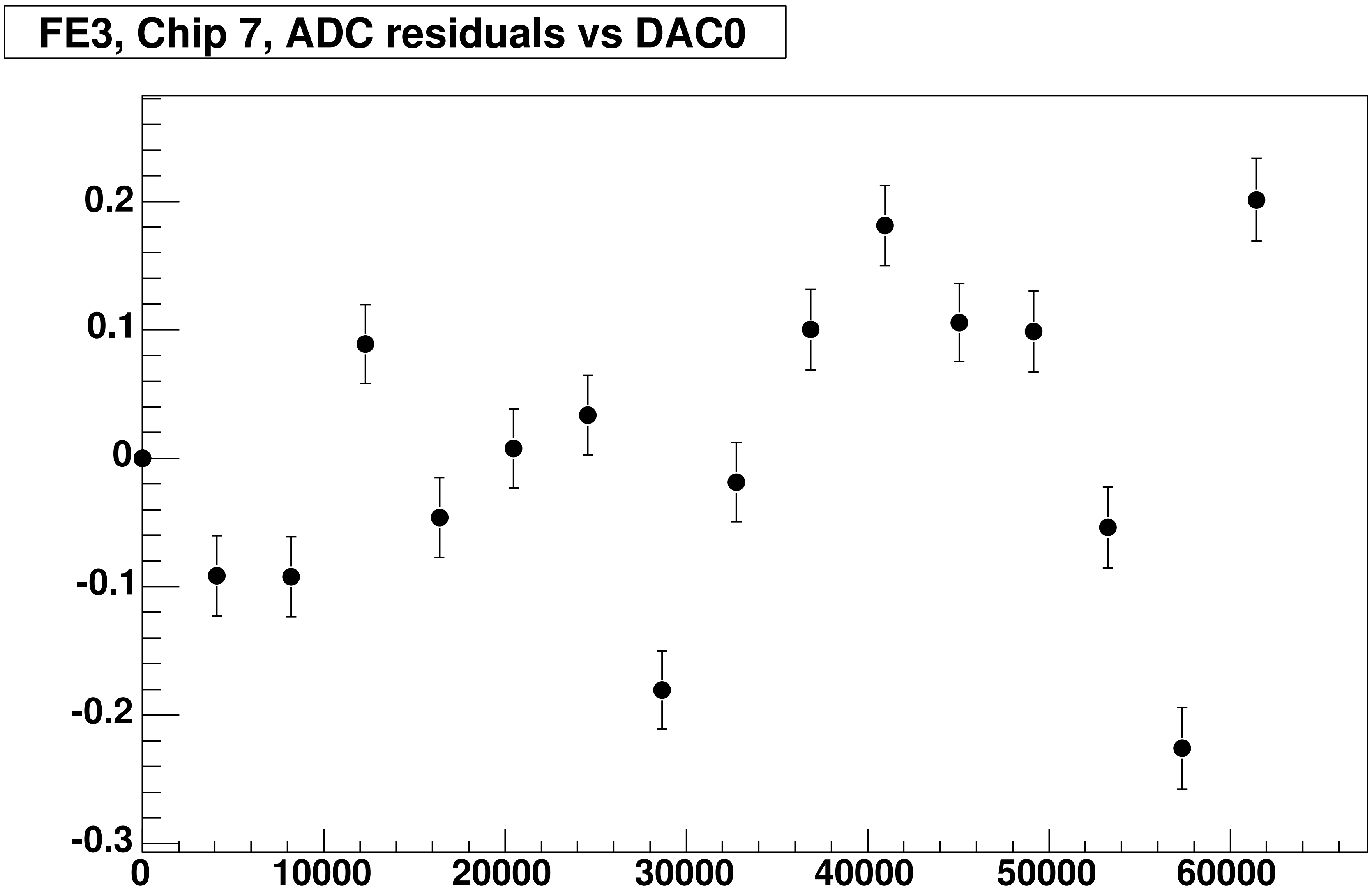

FE3, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

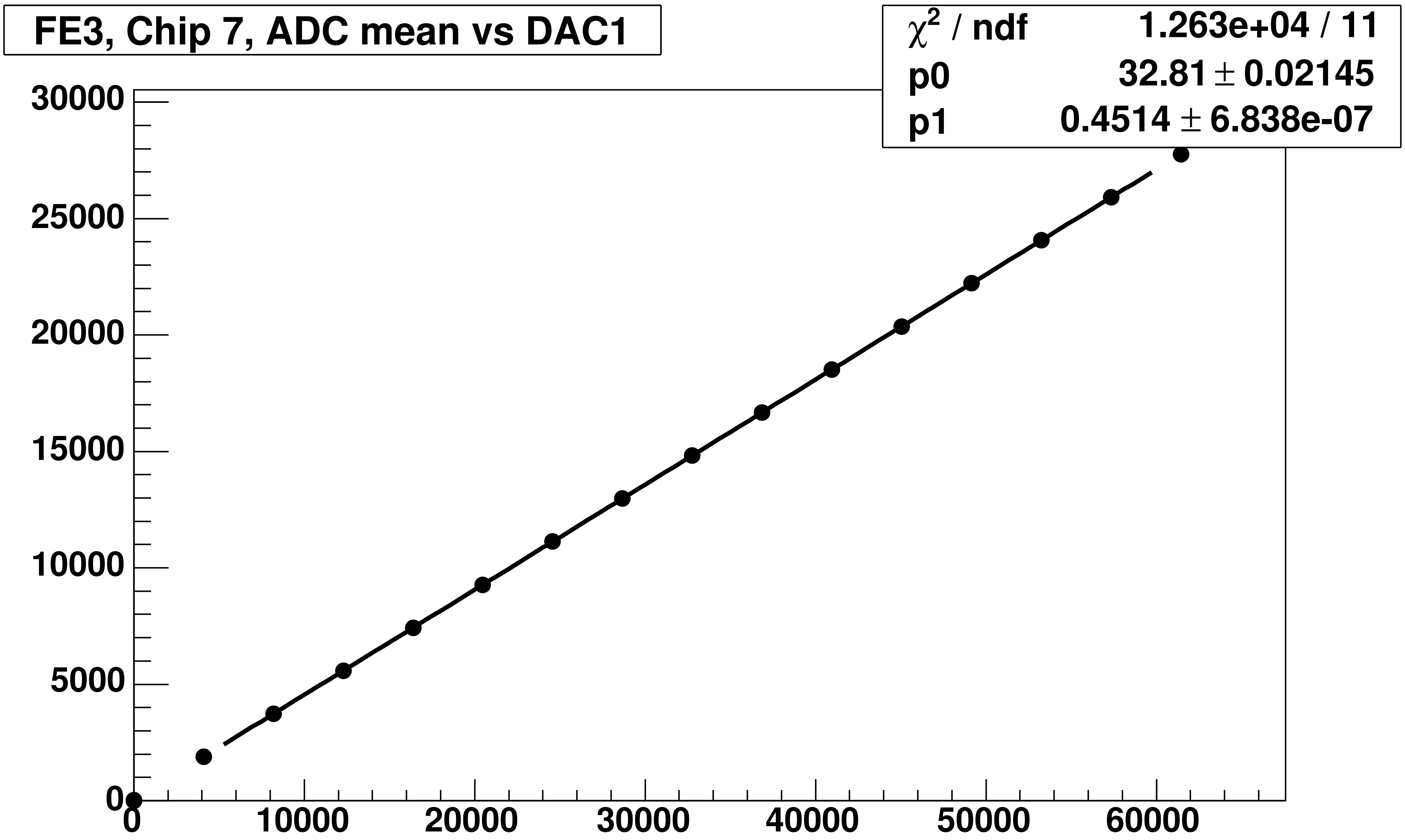


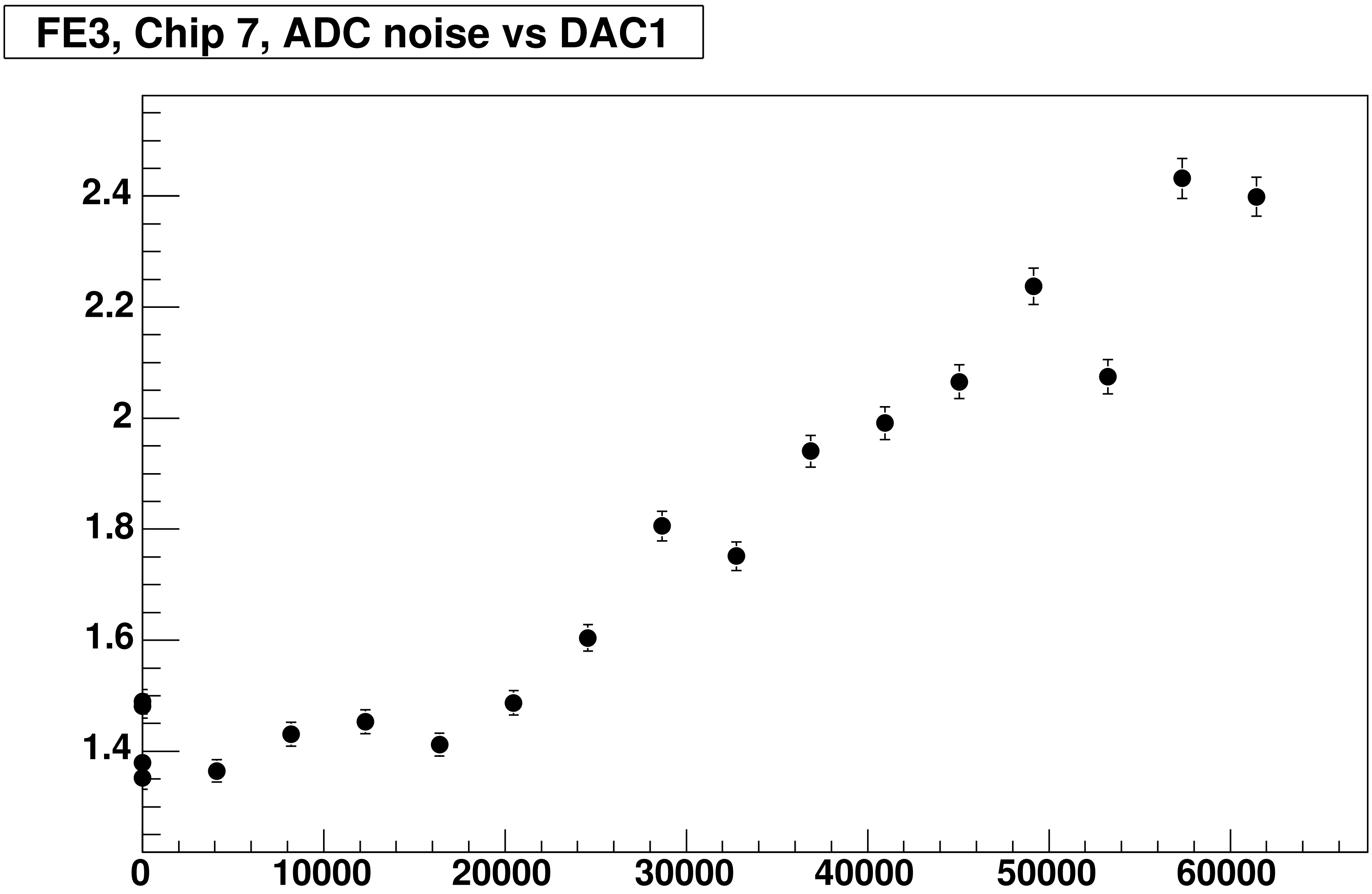
FE3, Chip 7, ADC mean vs DAC0
χ2 / ndf 176.3 / 11
p0 30.04 ± 0.02034
p1 -4.958e-06 ± 5.652e-07
30
25
20
15
10
0
10000
20000
30000
40000
50000
60000


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

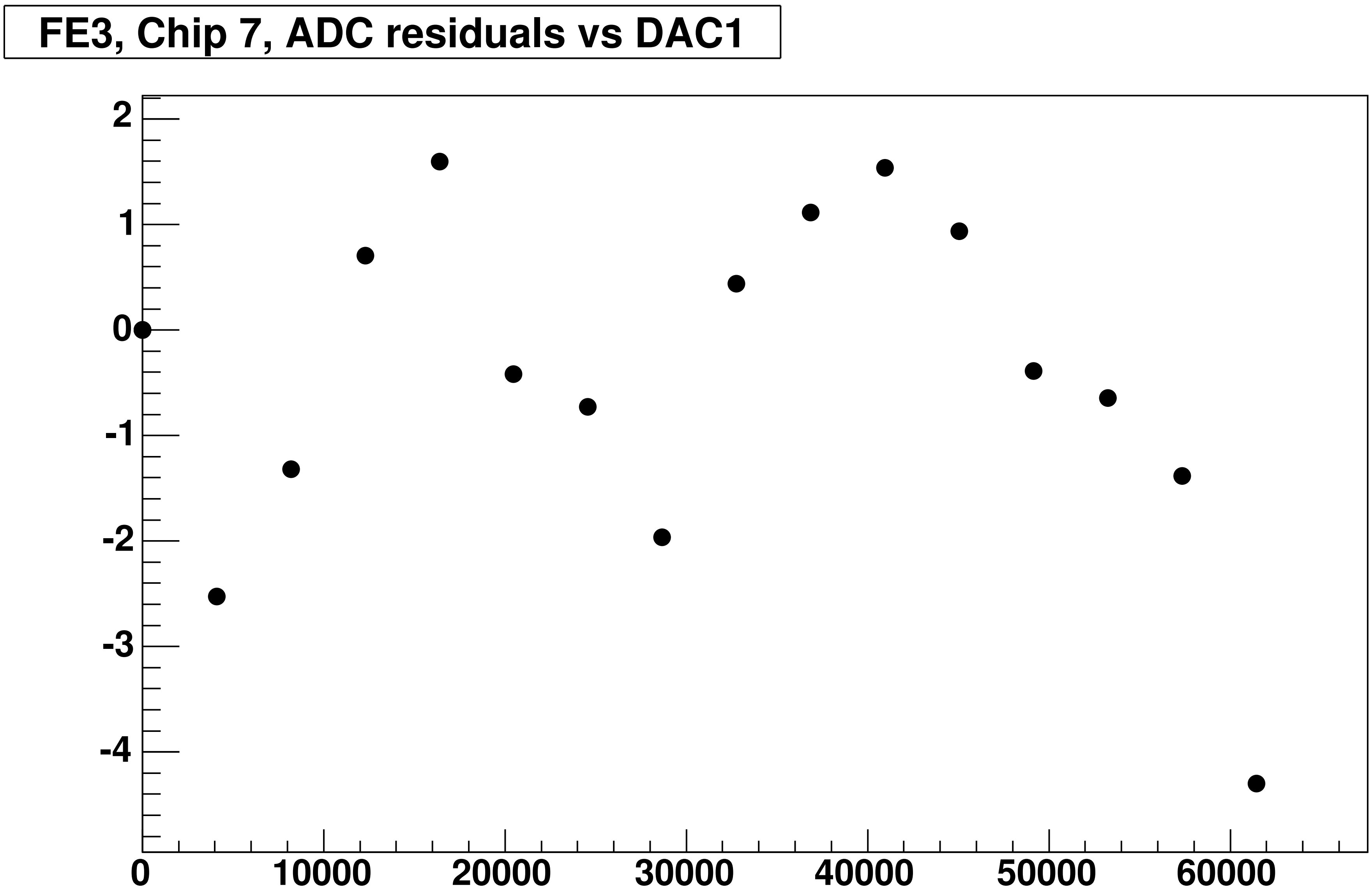


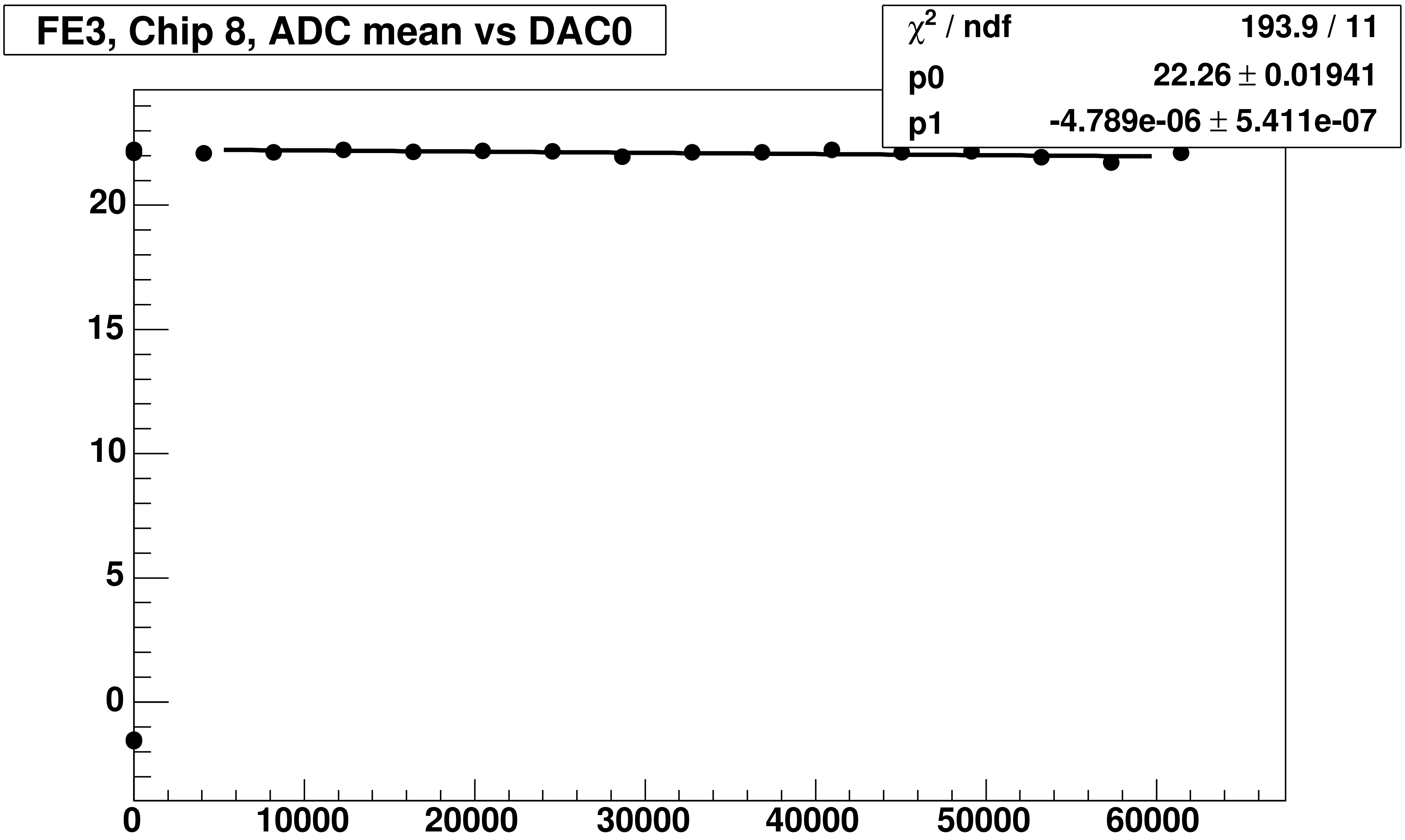
FE3, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

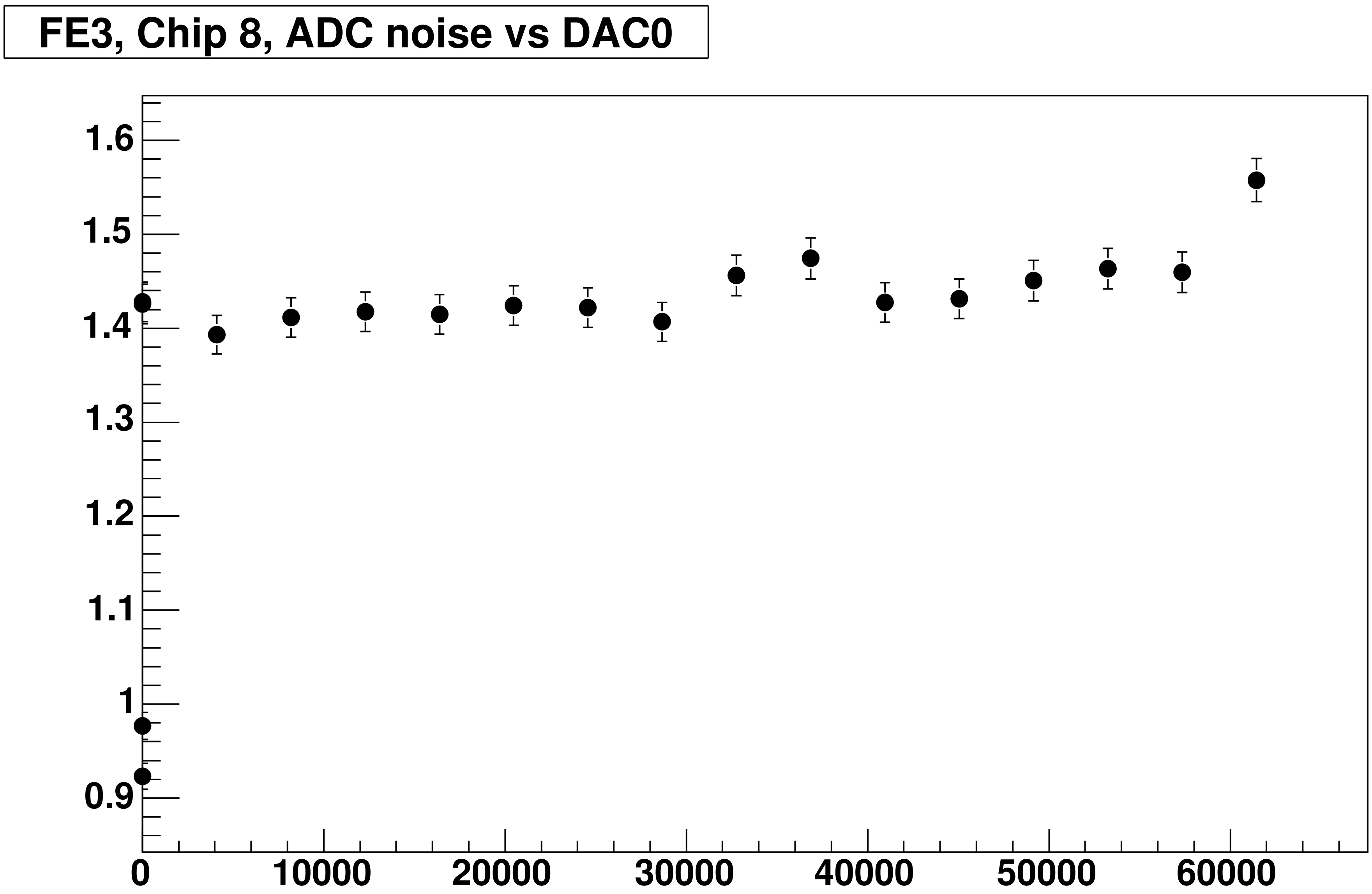

FE3, Chip 7, ADC mean vs DAC1
χ² / ndf 1.263e+04 / 11
p0 32.81 ± 0.02145
p1 0.4514 ± 6.838e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

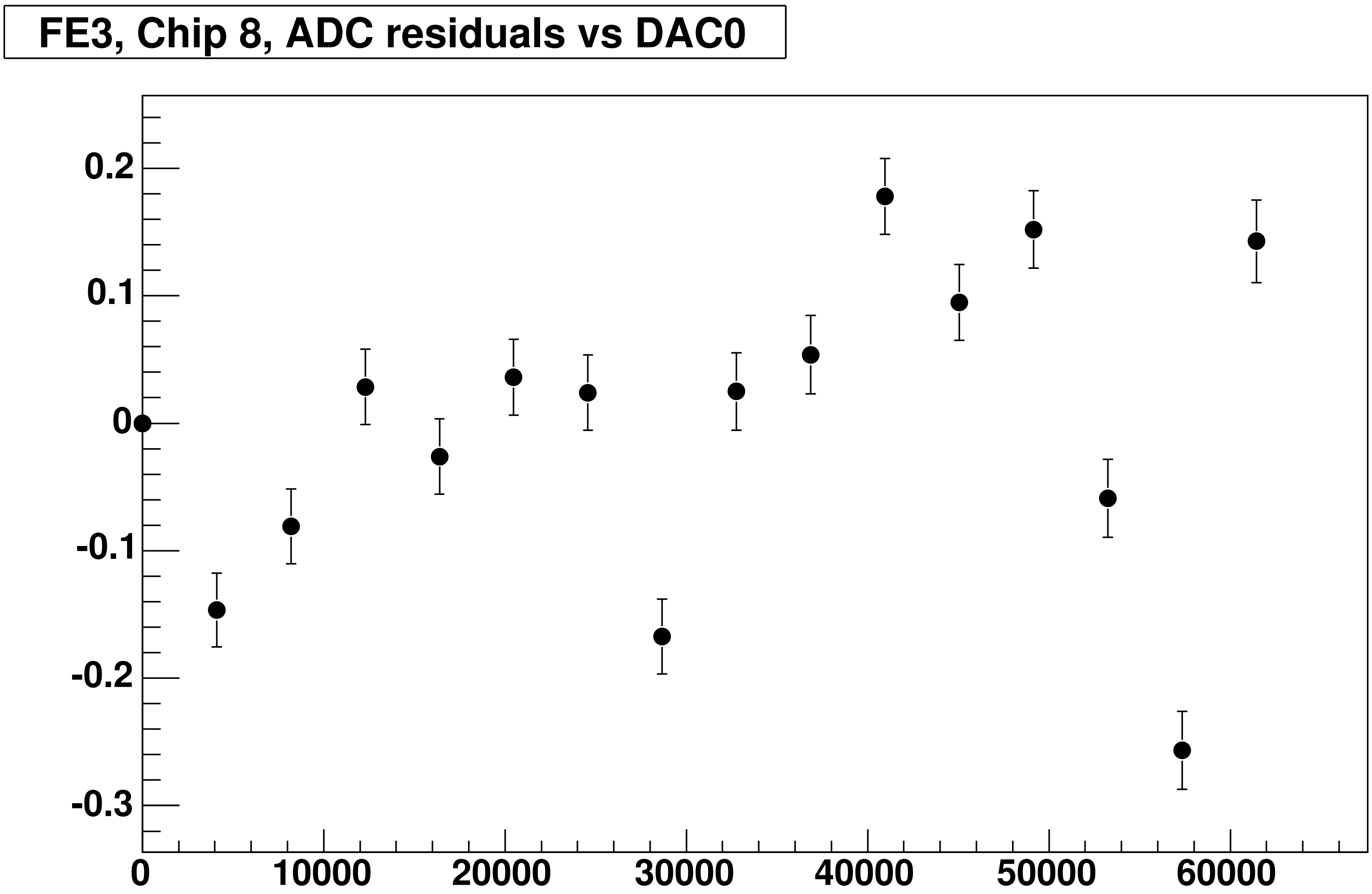


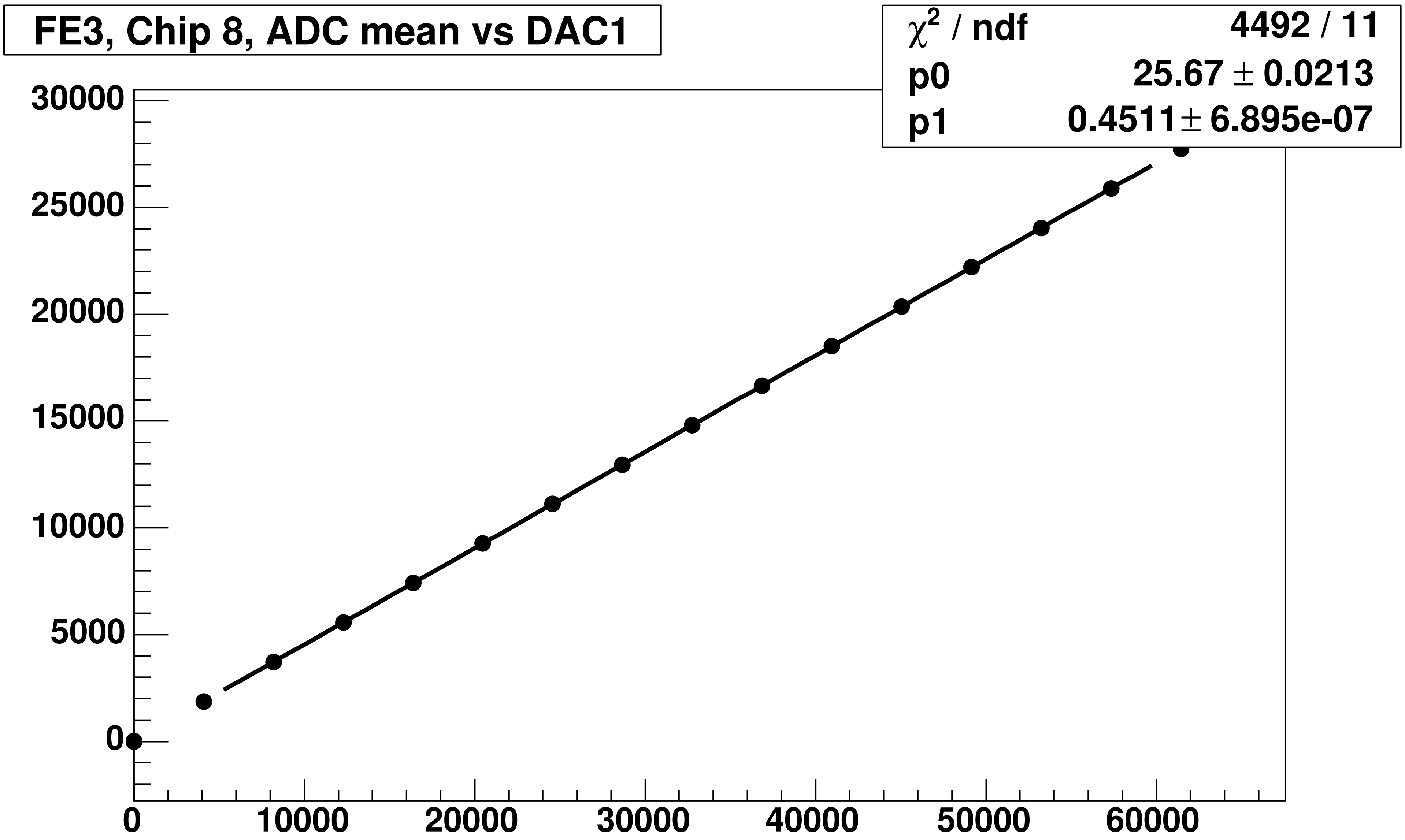
FE3, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

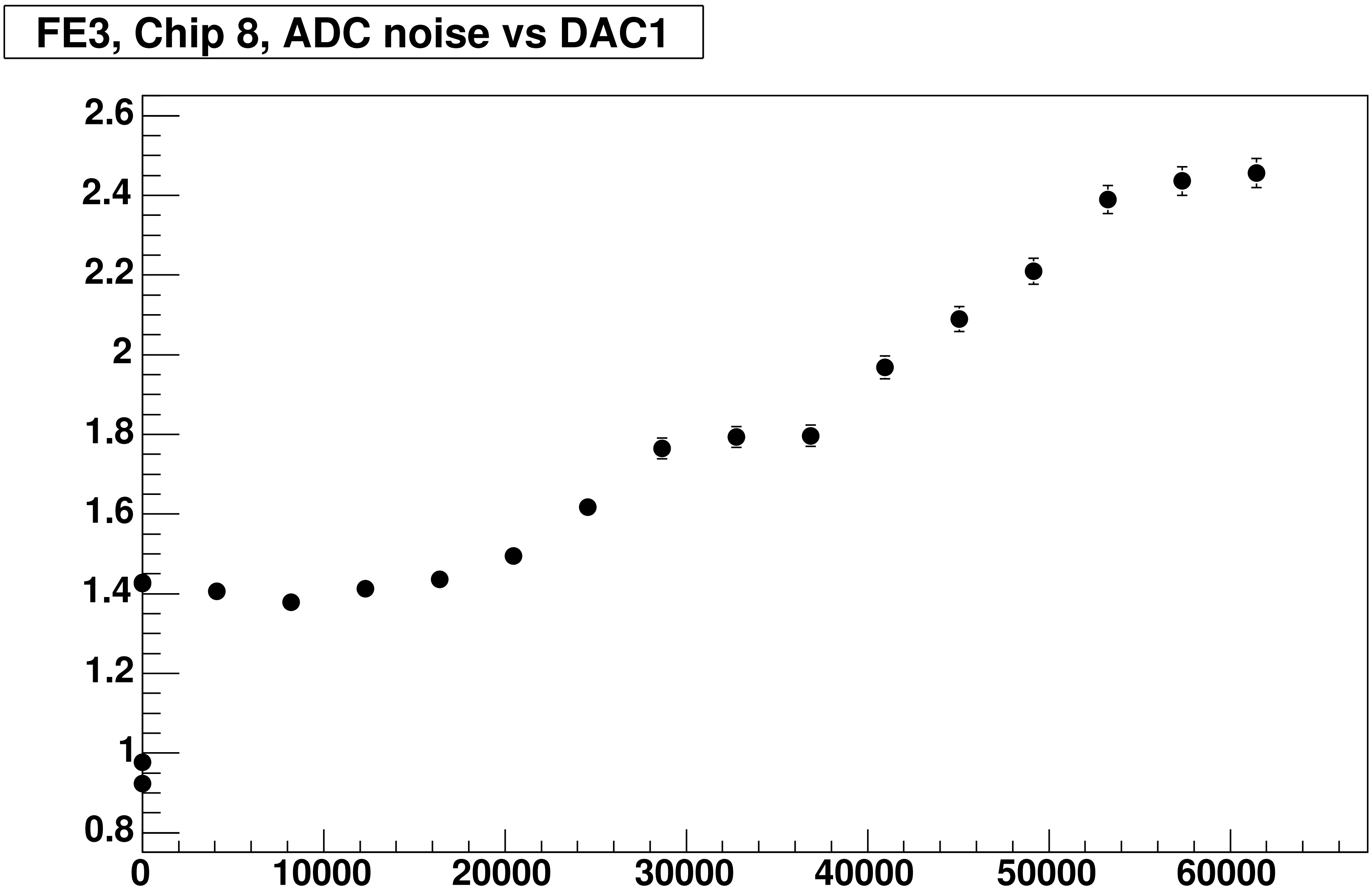

FE3, Chip 8, ADC mean vs DAC0
χ^2 / ndf 193.9 / 11
p0 22.26 ± 0.01941
p1 -4.789e-06 ± 5.411e-07
20
15
10
5
0
0
10000
20000
30000
40000
50000
60000

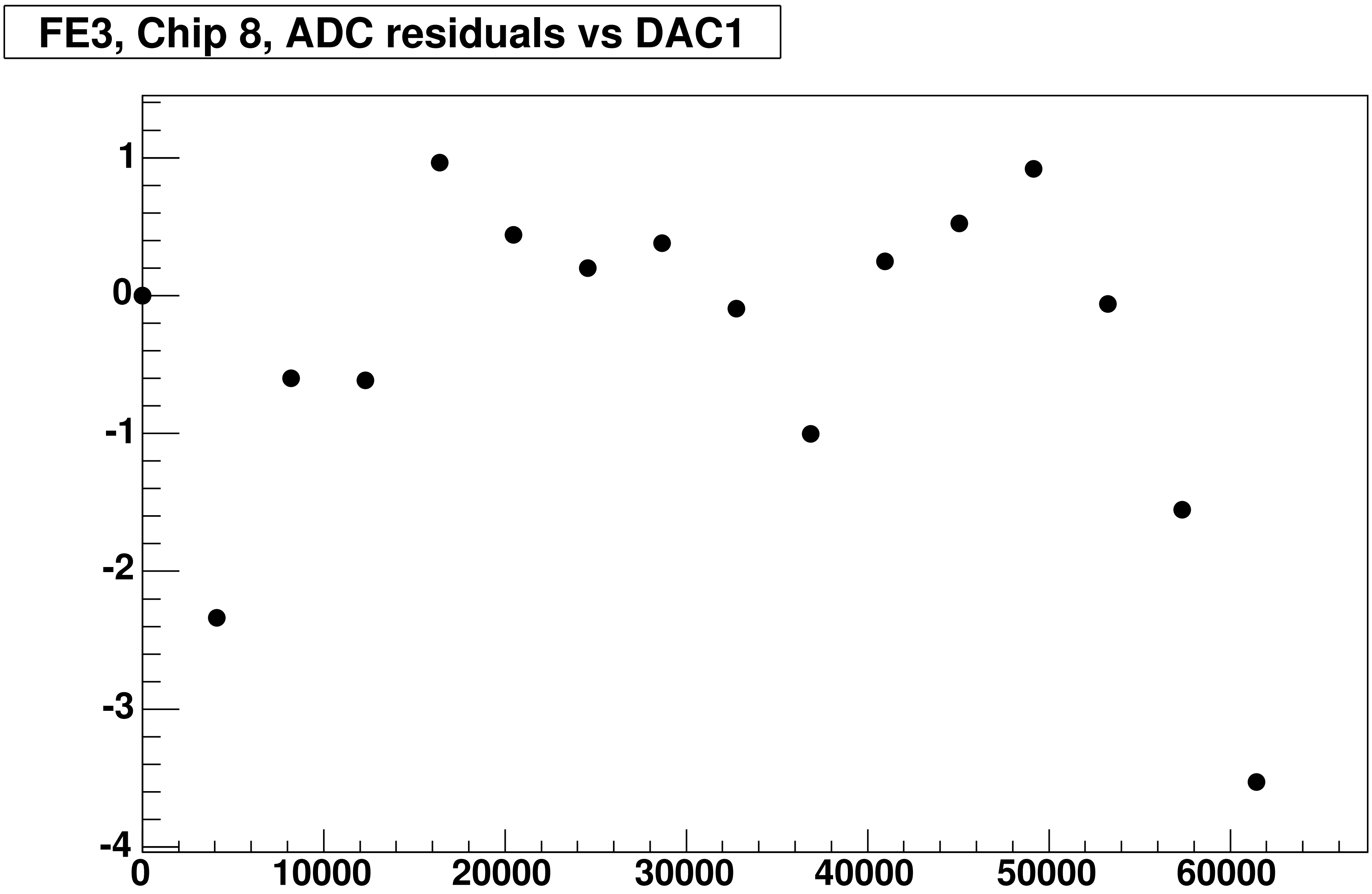

FE3, Chip 8, ADC noise vs DAC0
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0
10000
20000
30000
40000
50000
60000

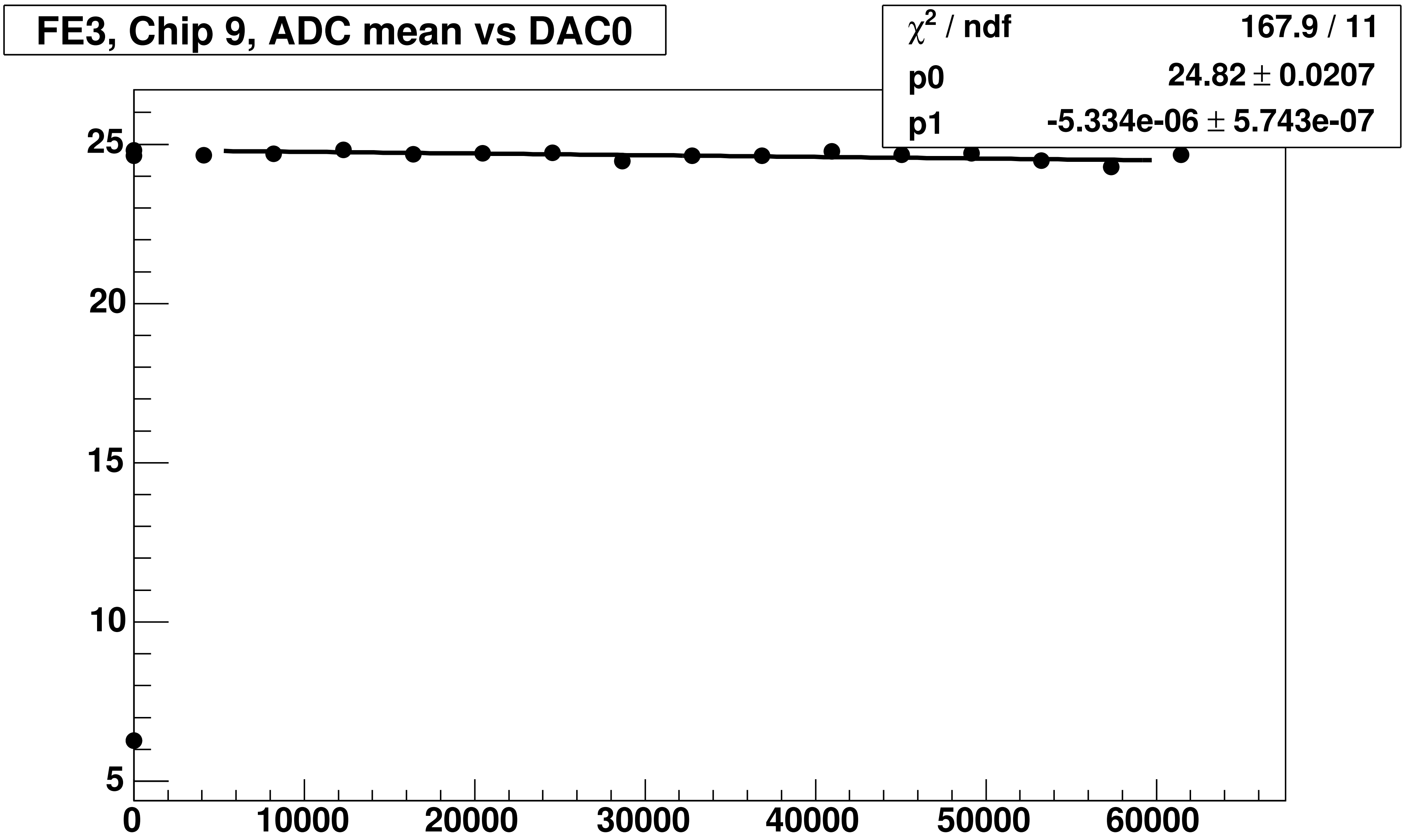

FE3, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



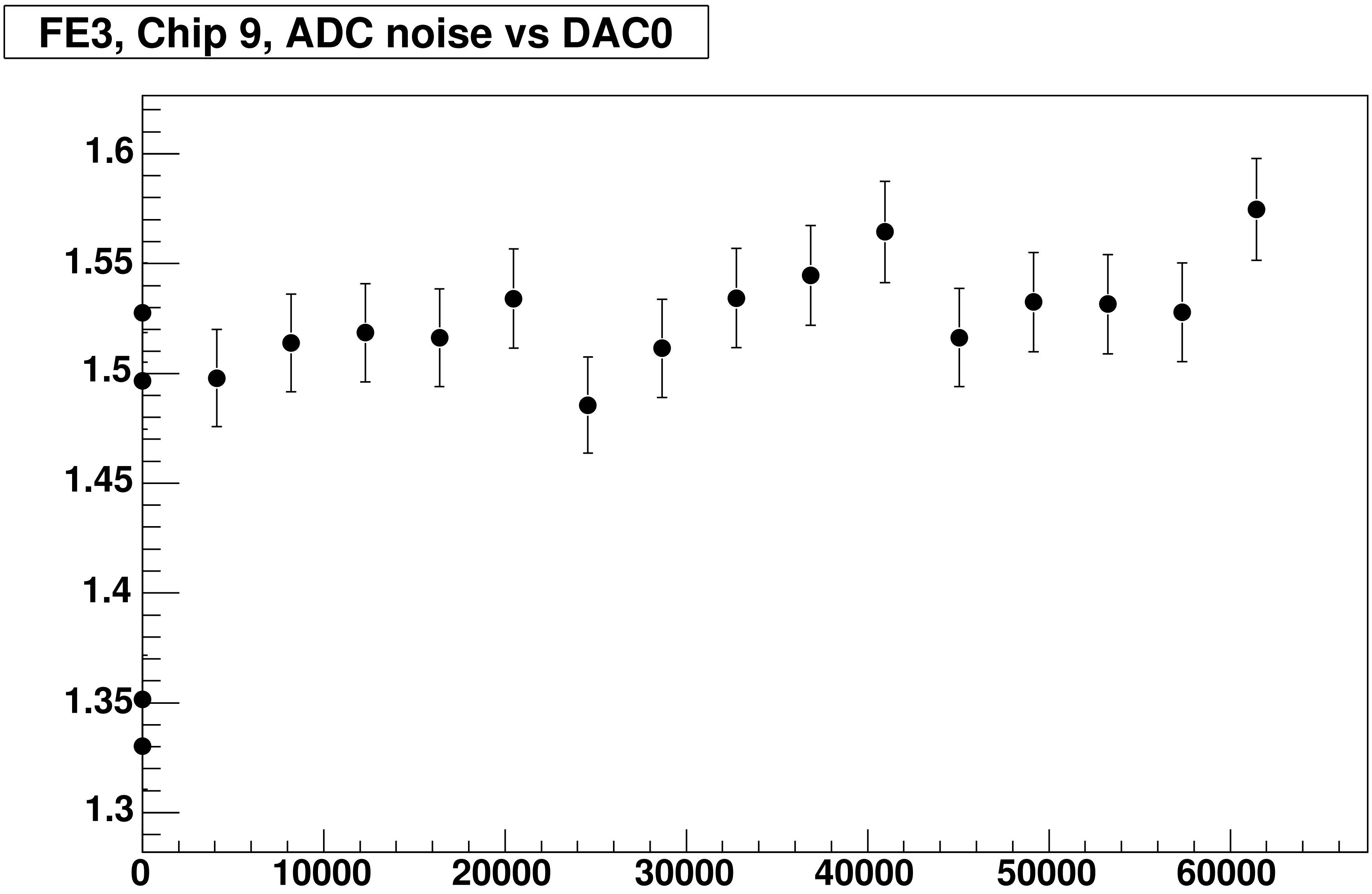
FE3, Chip 8, ADC mean vs DAC1
χ^2 / ndf 4492 / 11
p0 25.67 ± 0.0213
p1 0.4511 ± 6.895e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

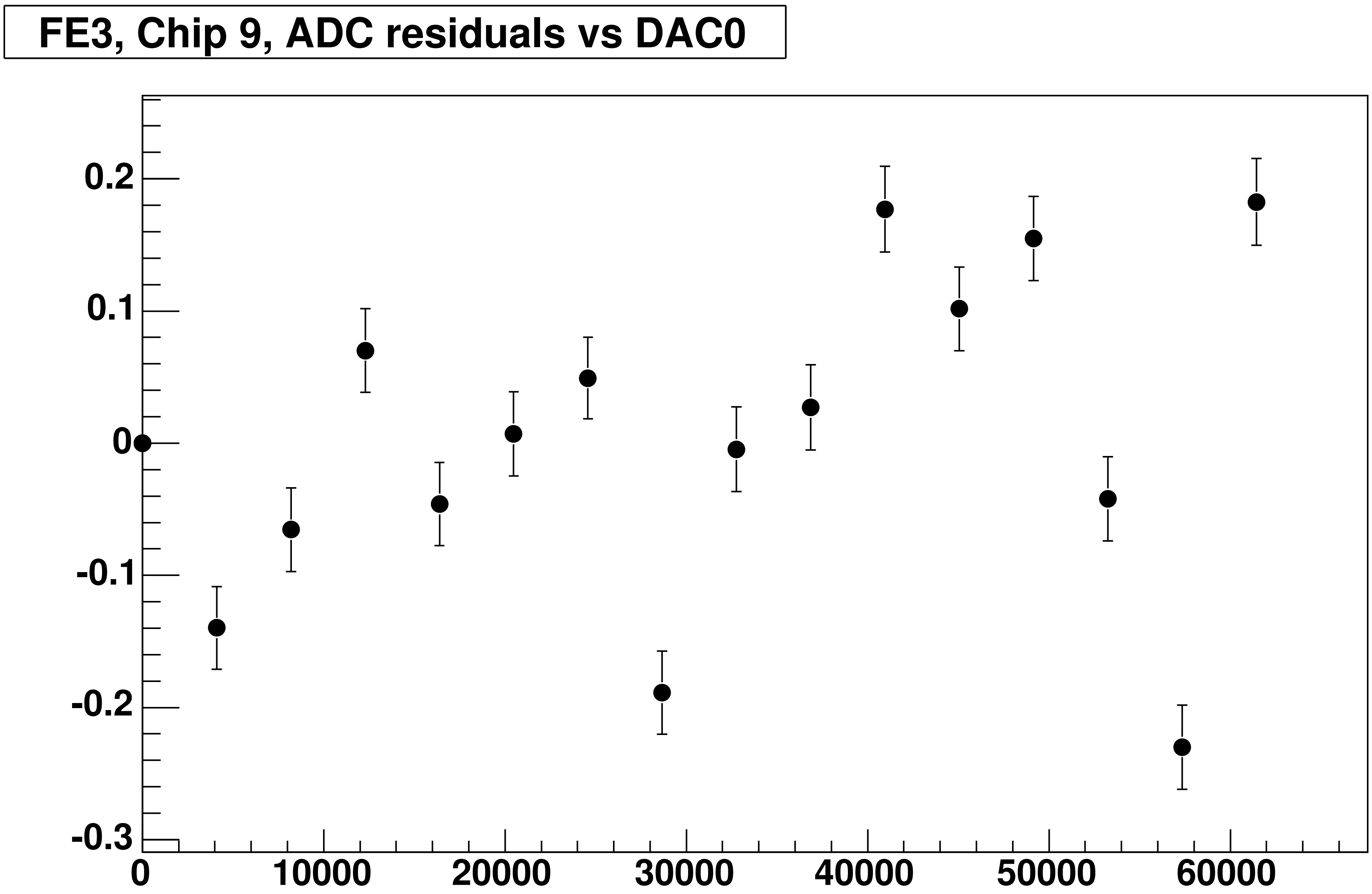

FE3, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0
10000
20000
30000
40000
50000
60000

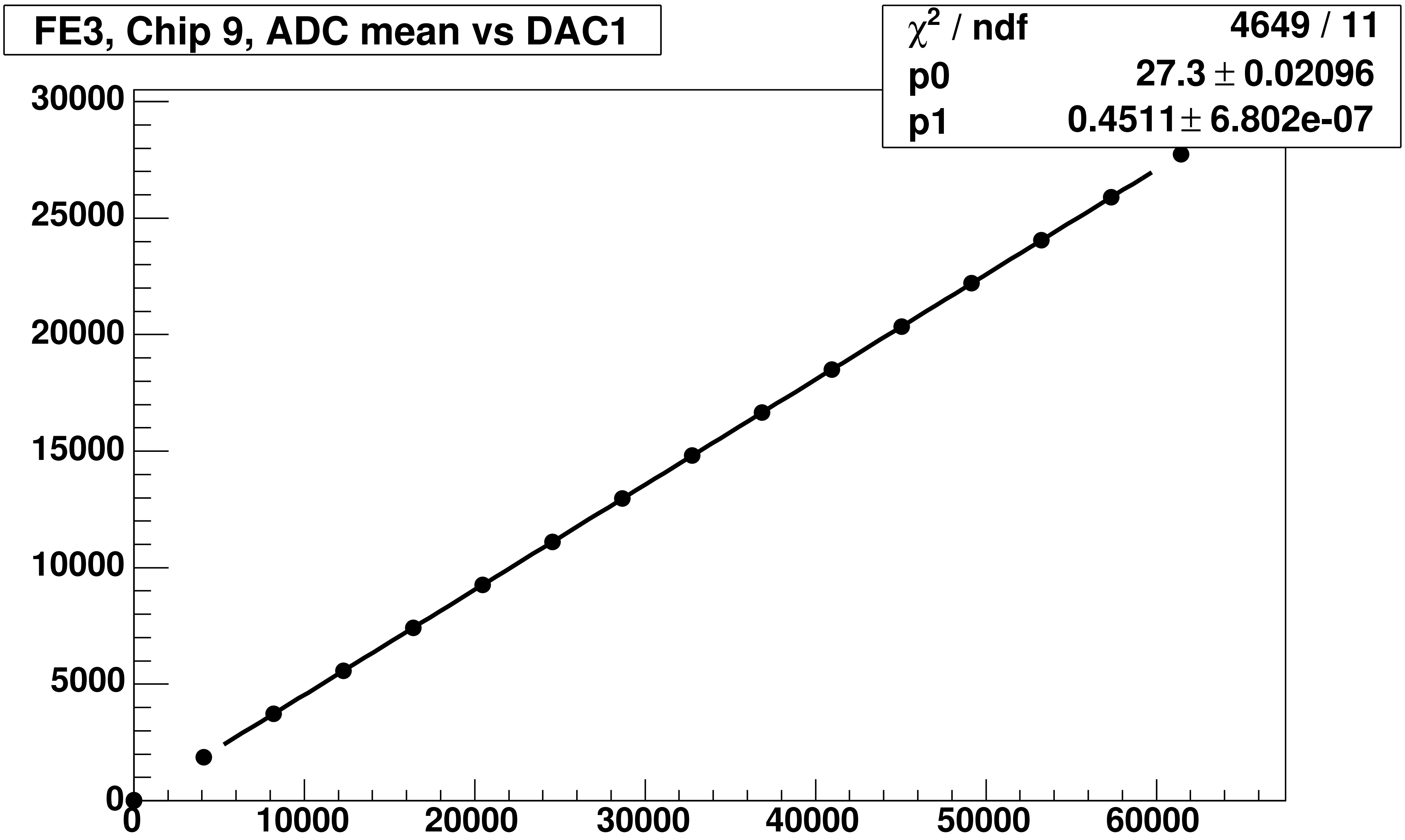

FE3, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



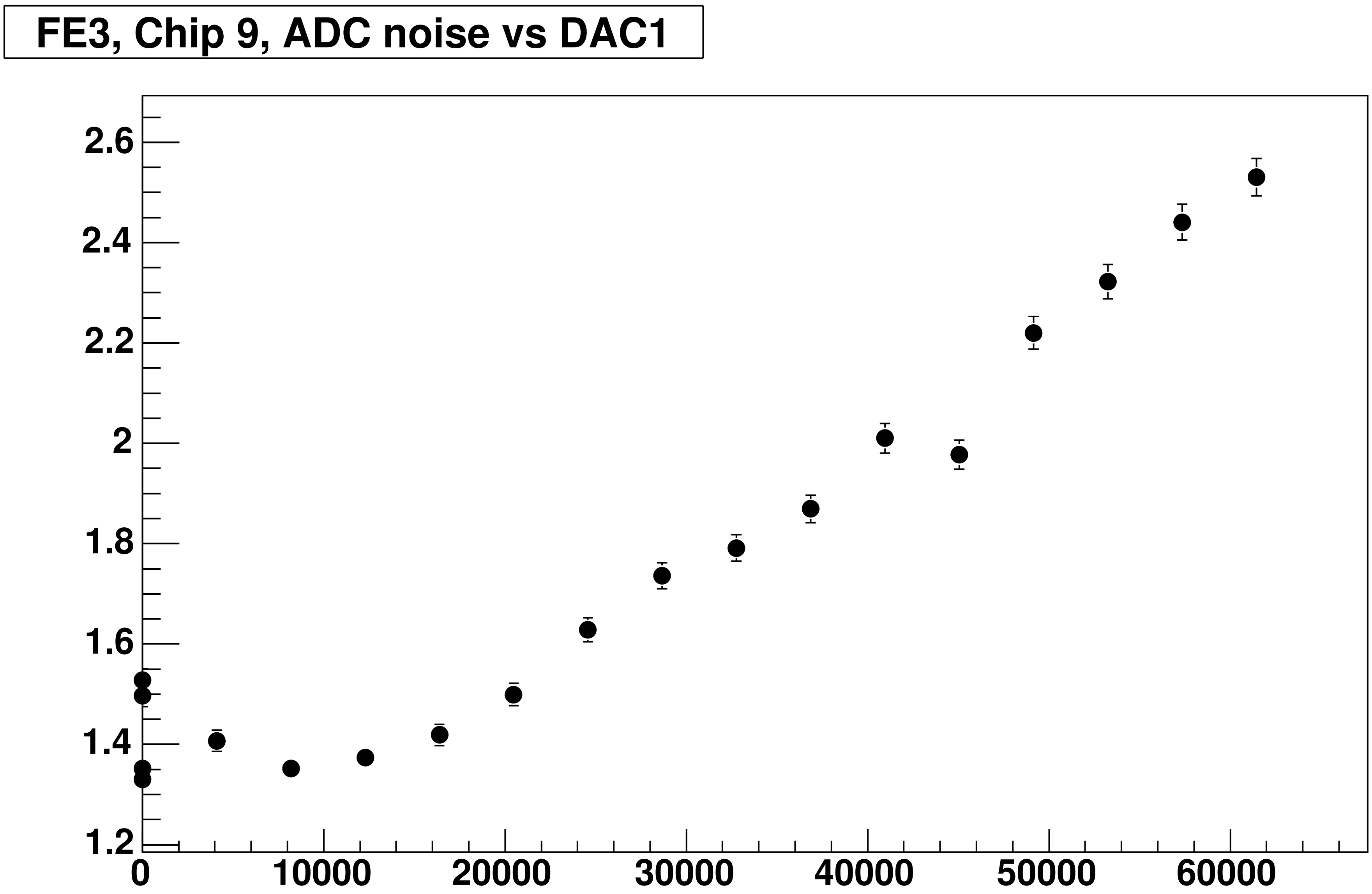
FE3, Chip 9, ADC mean vs DAC0
χ^2 / ndf 167.9 / 11
p0 24.82 ± 0.0207
p1 -5.334e-06 ± 5.743e-07
25
20
15
10
5
0
10000
20000
30000
40000
50000
60000

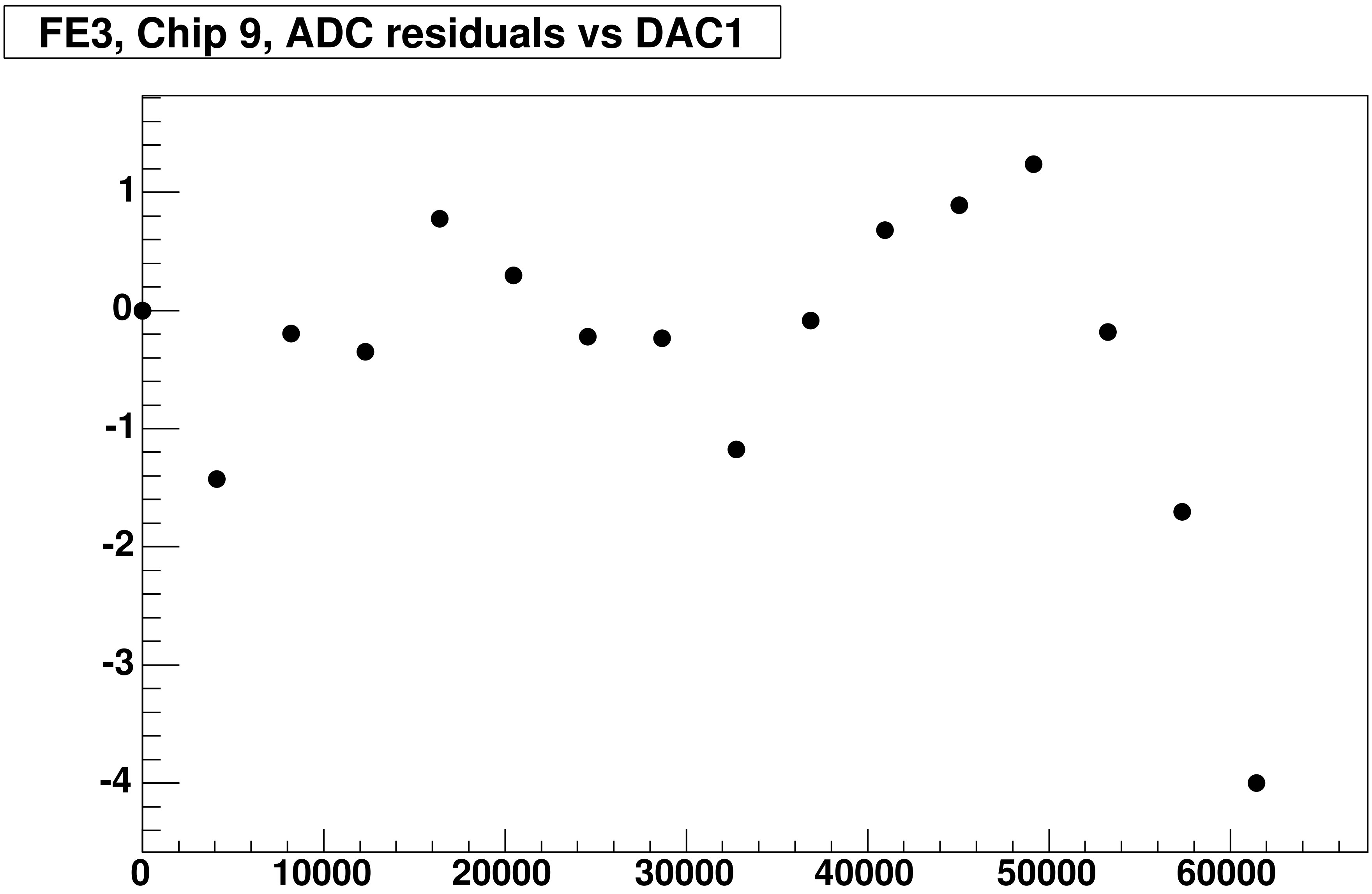

FE3, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


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

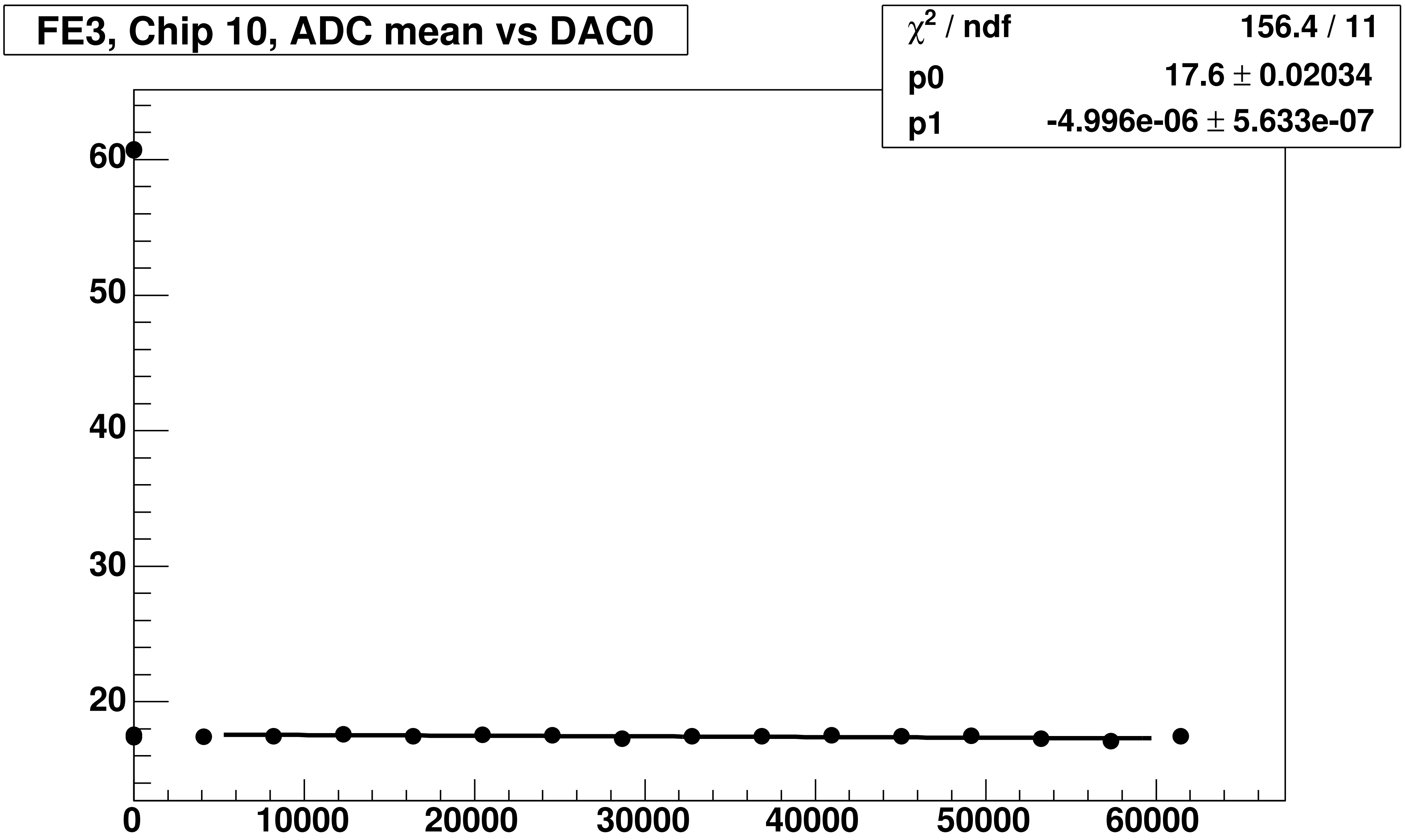


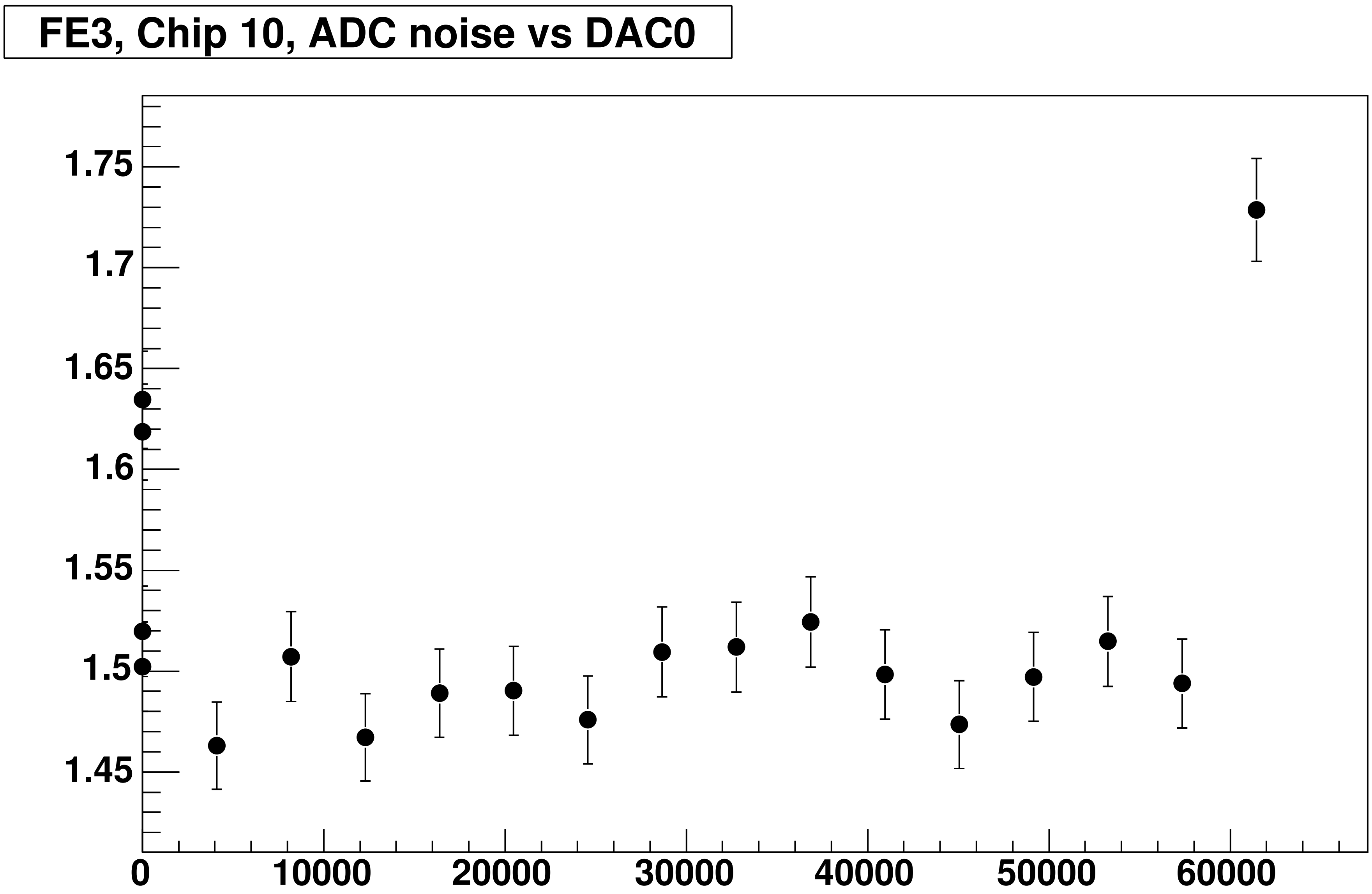
FE3, Chip 9, ADC mean vs DAC1
χ2 / ndf 4649 / 11
p0 27.3 ± 0.02096
p1 0.4511 ± 6.802e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

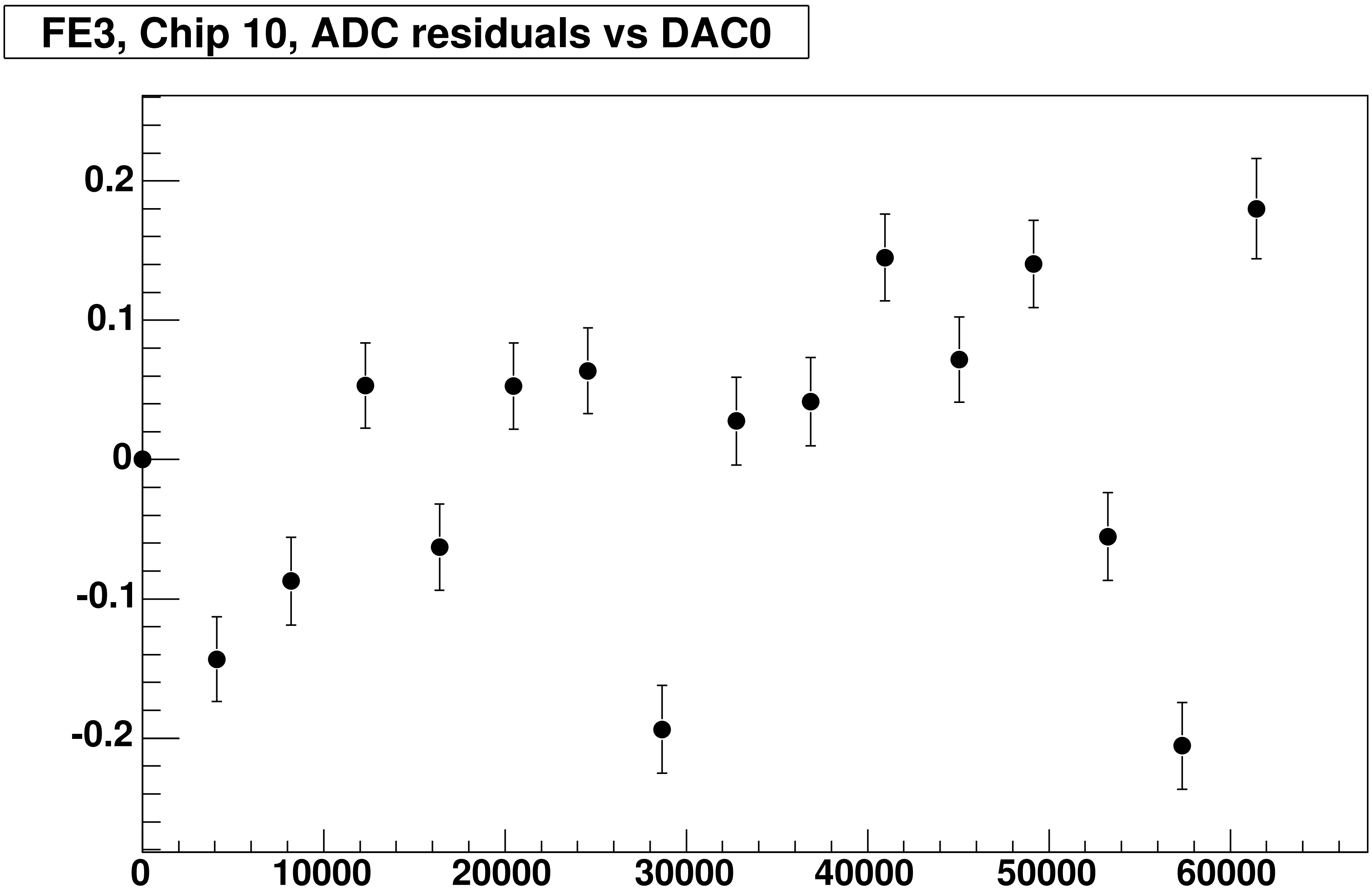

FE3, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

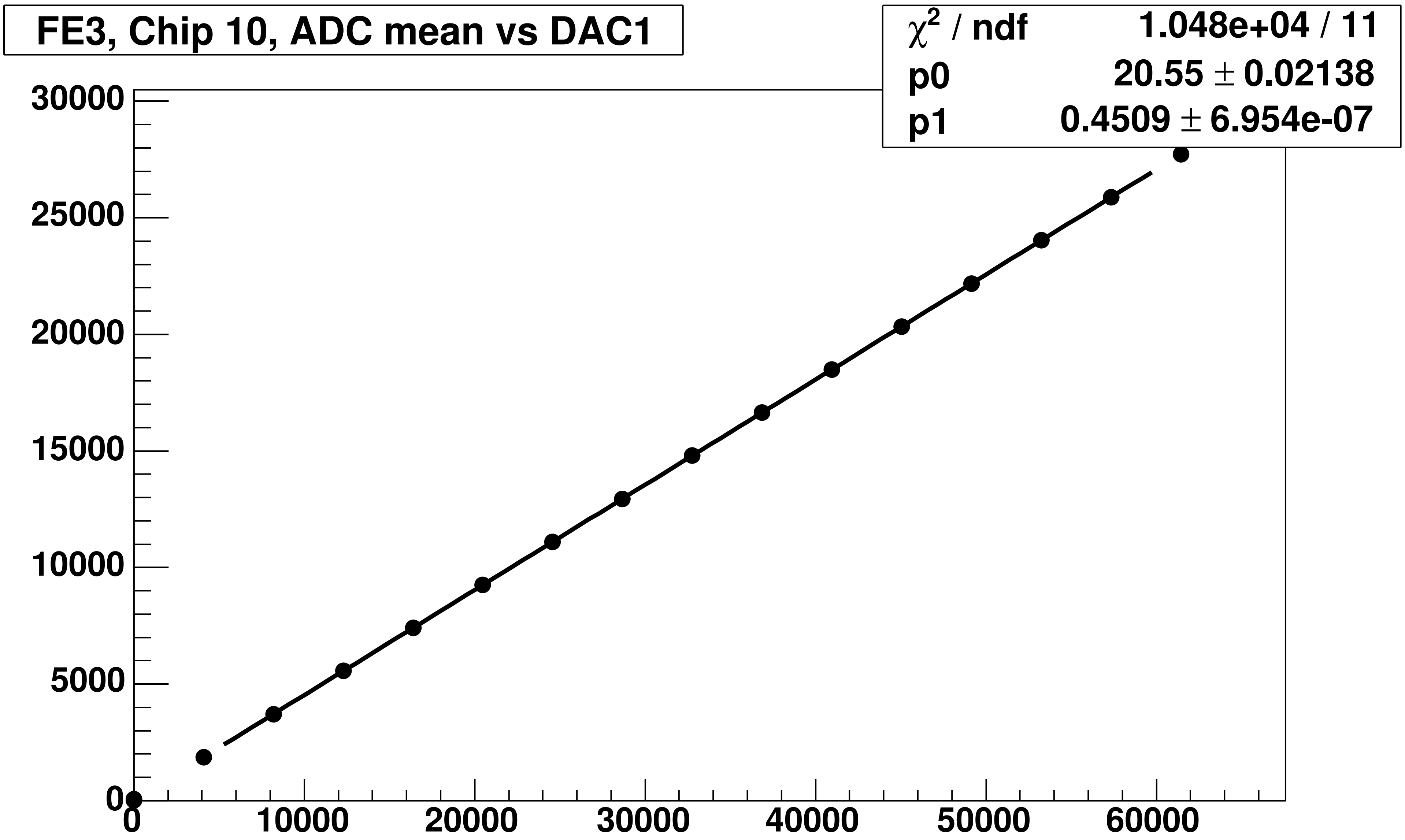


FE3, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

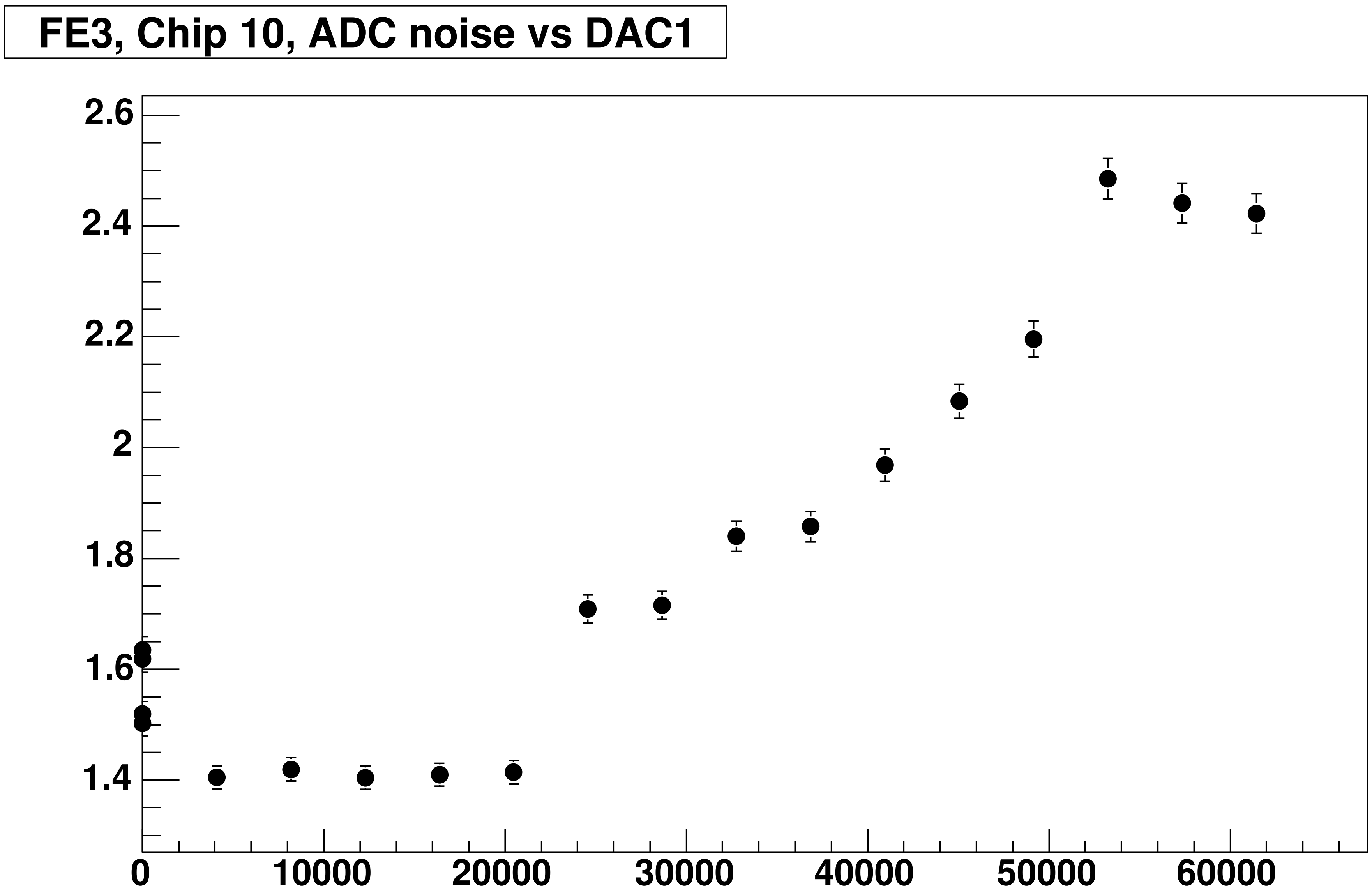

FE3, Chip 10, ADC mean vs DAC0
χ2 / ndf 156.4 / 11
p0 17.6 ± 0.02034
p1 -4.996e-06 ± 5.633e-07
60
50
40
30
20
0
10000
20000
30000
40000
50000
60000


FE3, Chip 10, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

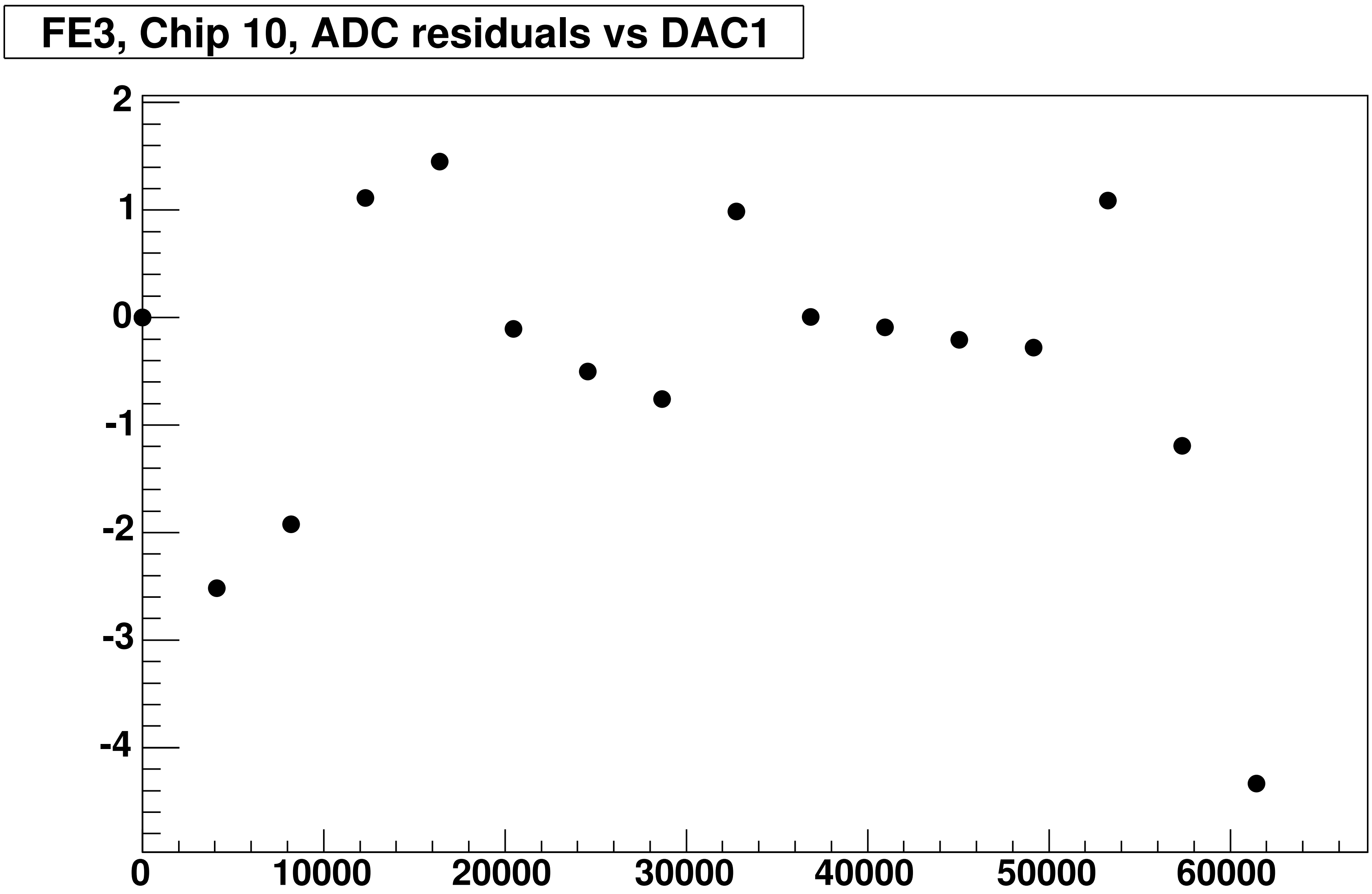

FE3, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

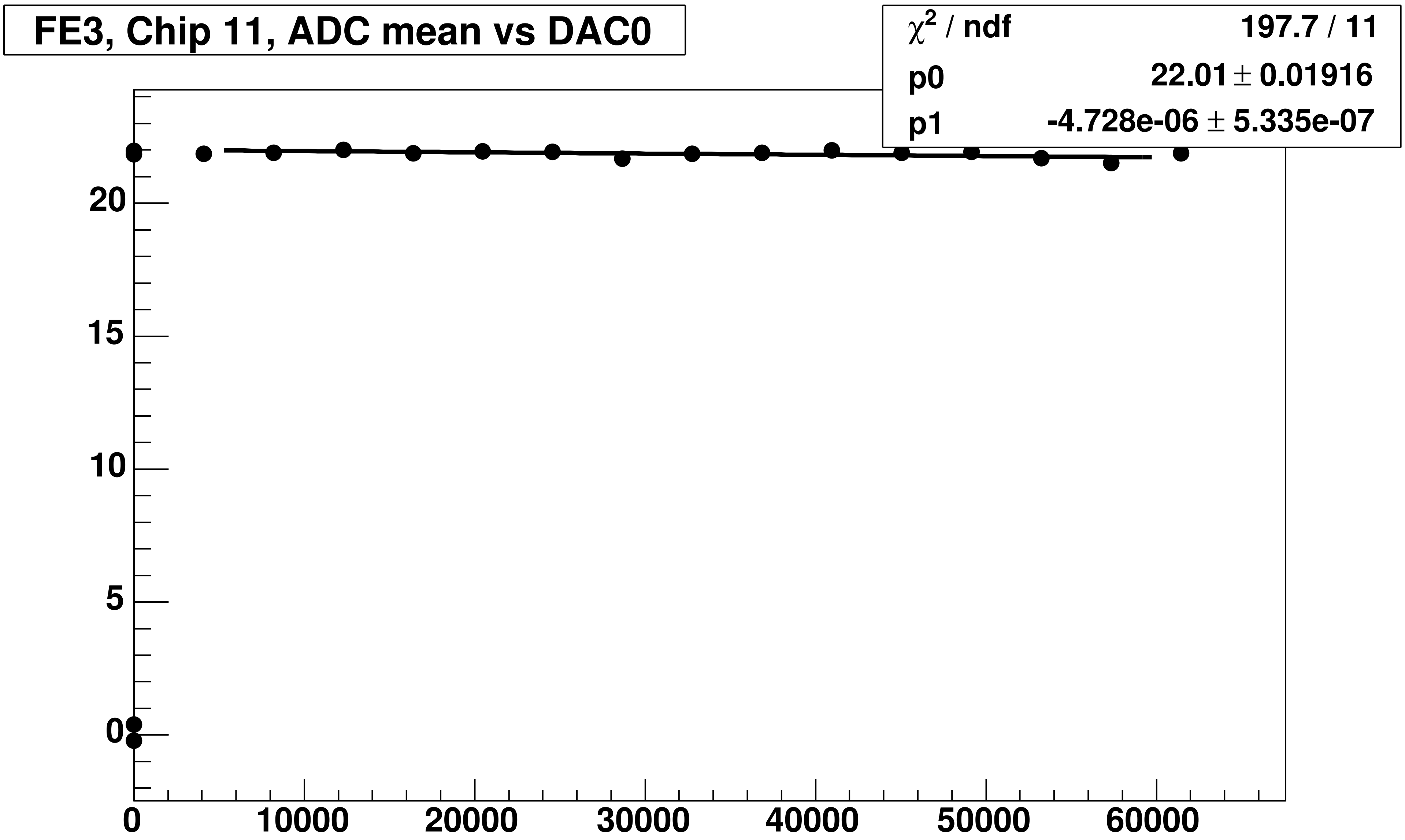


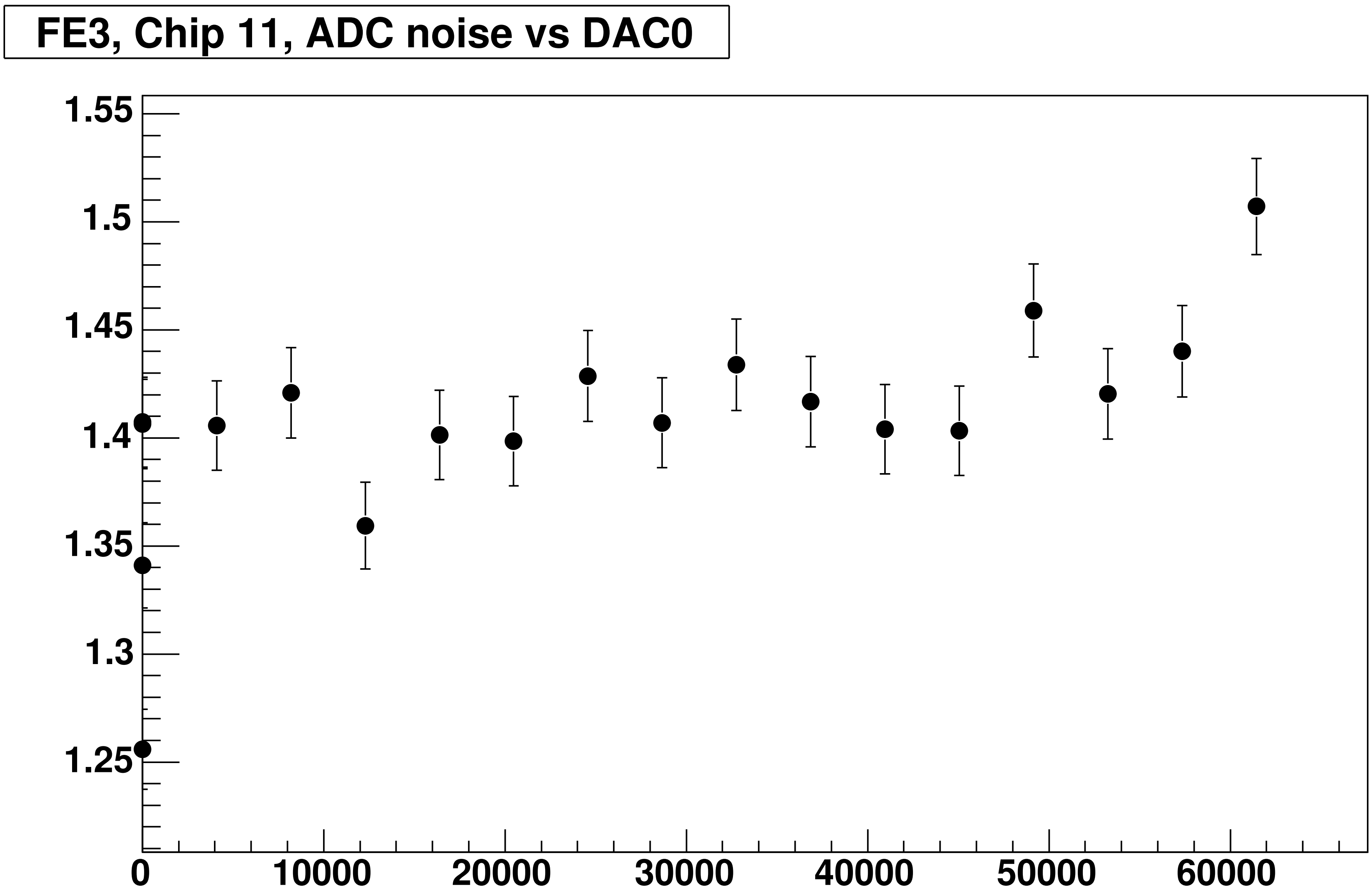
FE3, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1.048e+04 / 11
p0 20.55 ± 0.02138
p1 0.4509 ± 6.954e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



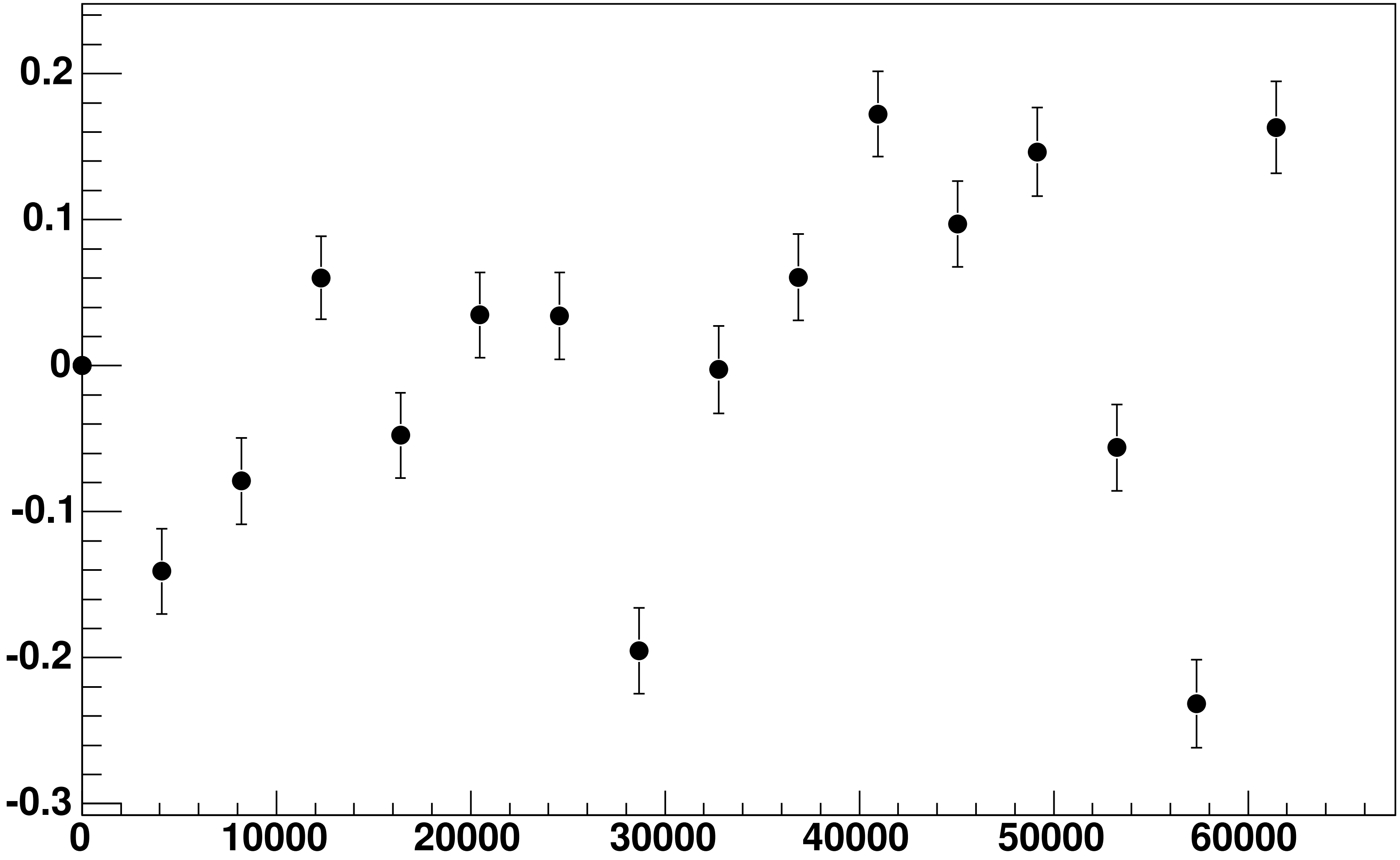
FE3, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

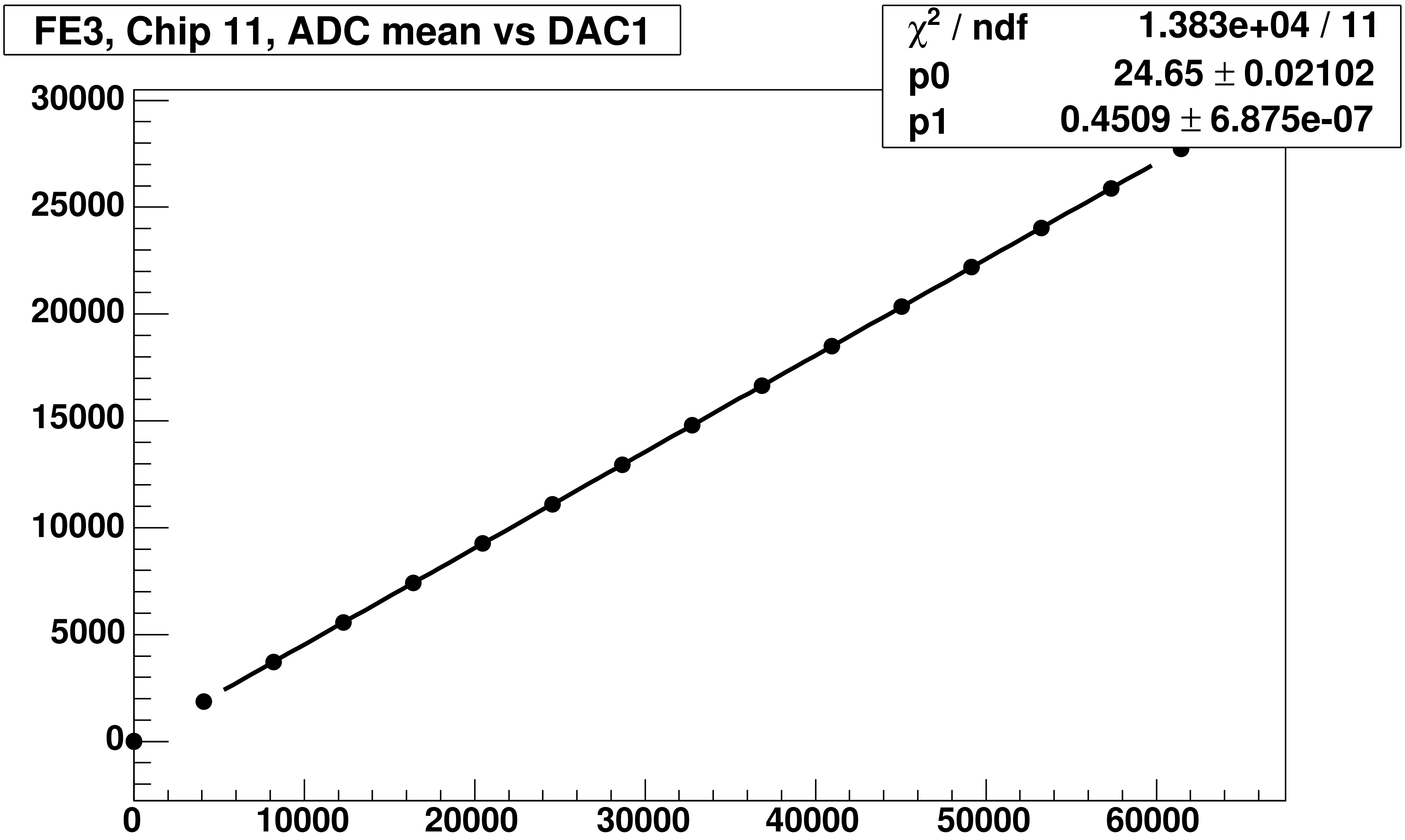

FE3, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000


FE3, Chip 11, ADC mean vs DAC0
χ^2 / ndf 197.7 / 11
p0 22.01 ± 0.01916
p1 -4.728e-06 ± 5.335e-07
0
5
10
15
20
0
10000
20000
30000
40000
50000
60000

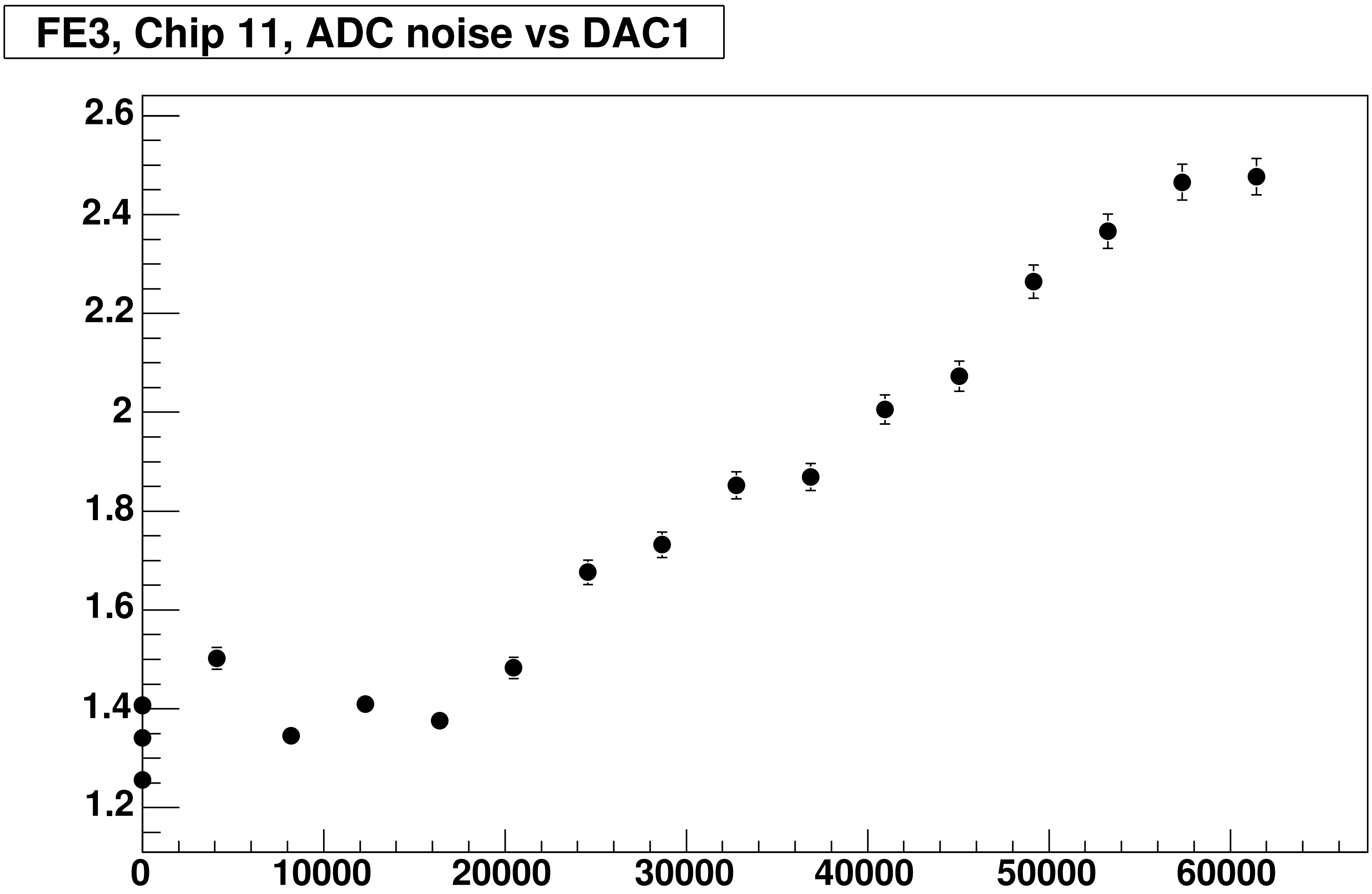

FE3, Chip 11, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000

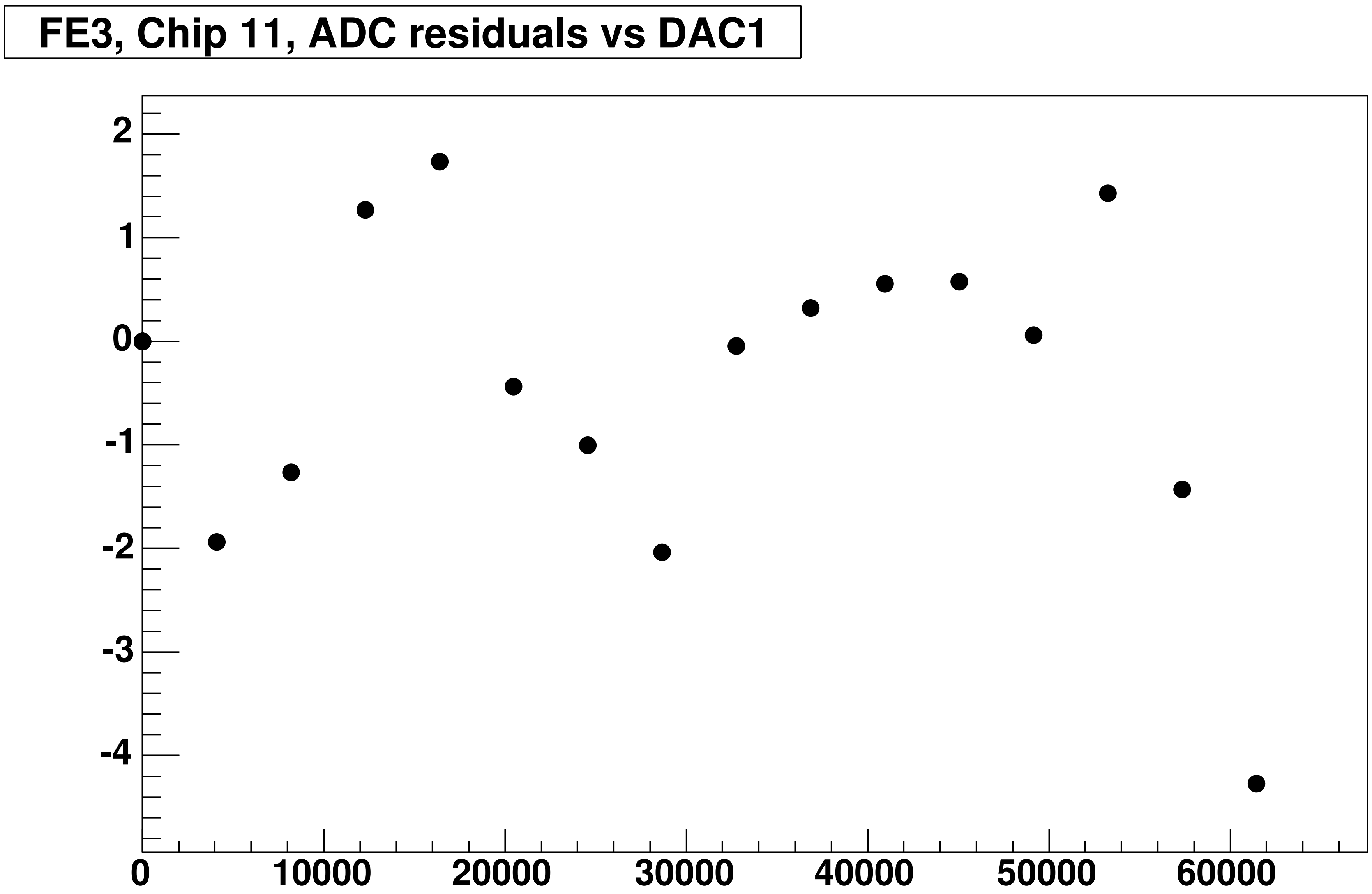
FE3, Chip 11, ADC residuals vs DAC0



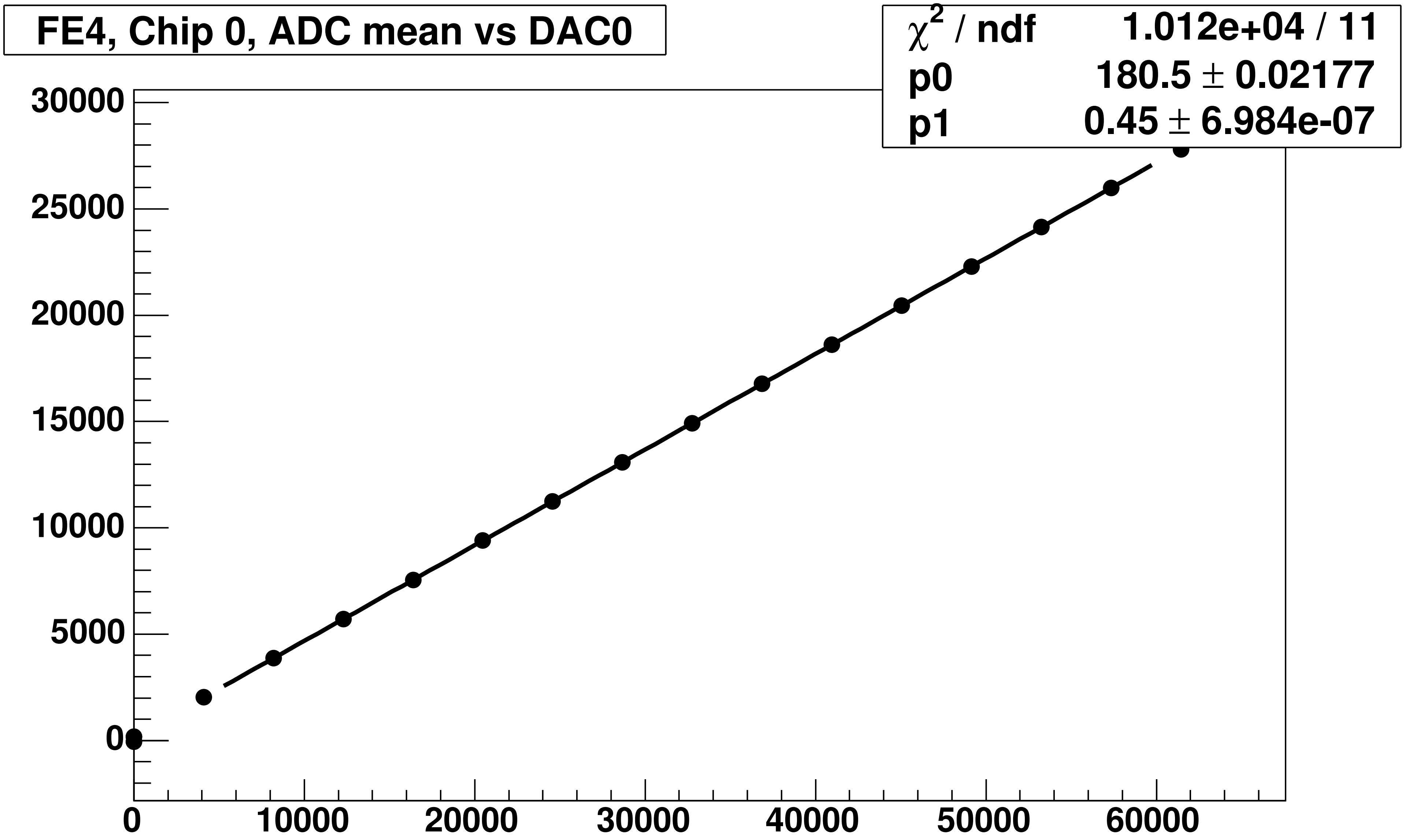


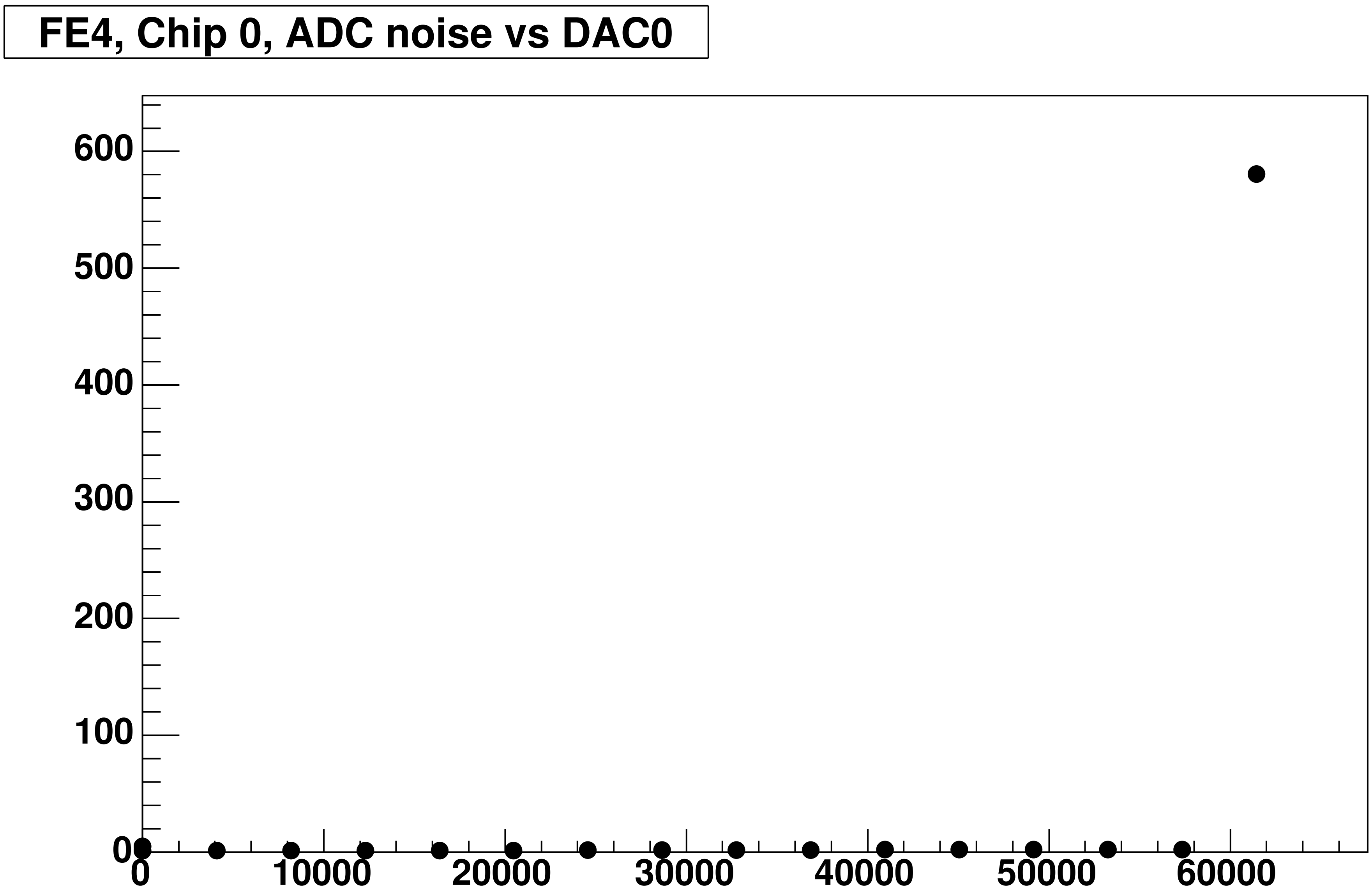
FE3, Chip 11, ADC mean vs DAC1
χ² / ndf 1.383e+04 / 11
p0 24.65 ± 0.02102
p1 0.4509 ± 6.875e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

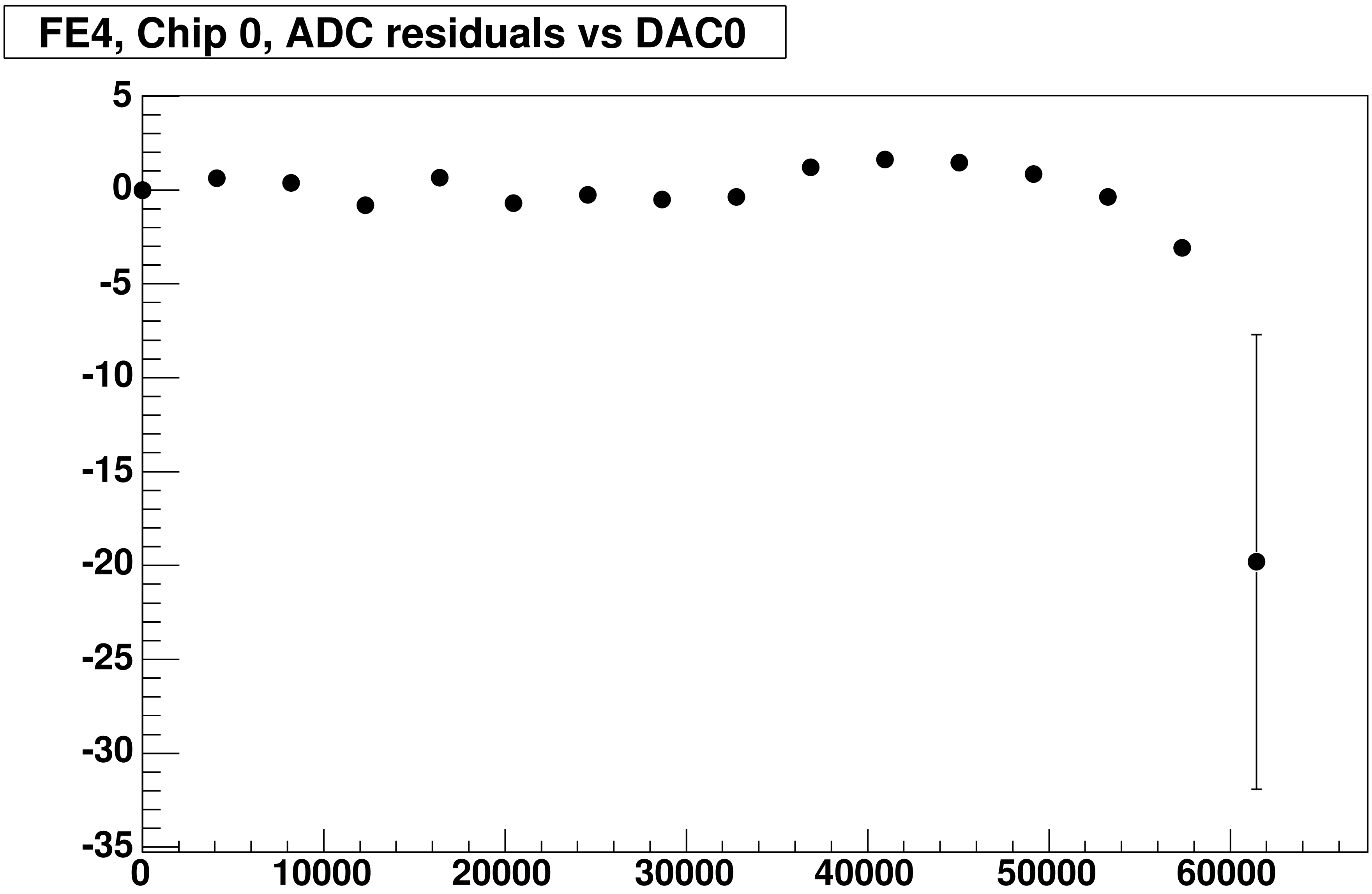


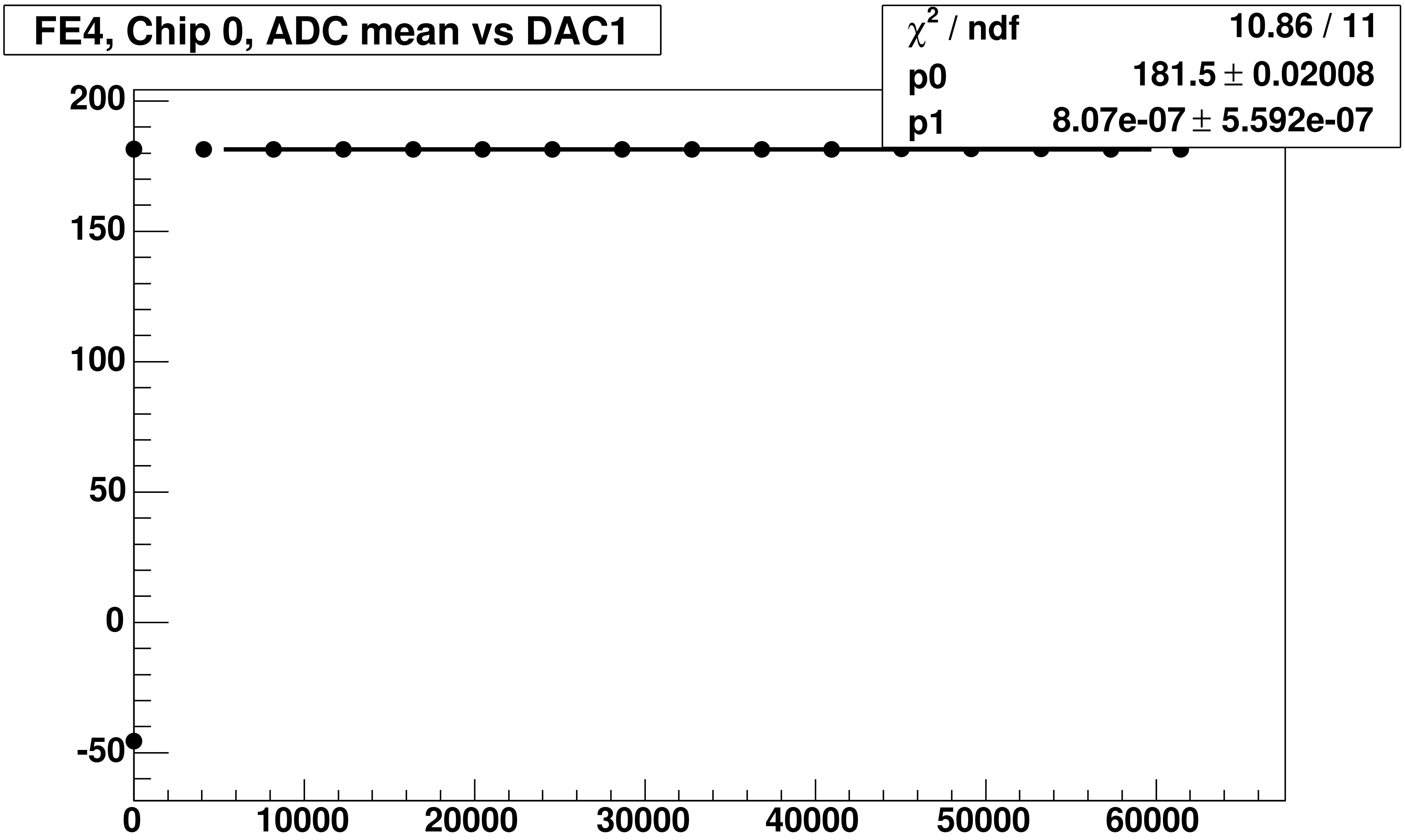
FE3, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000


FE4, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1.012e+04 / 11
p0 180.5 ± 0.02177
p1 0.45 ± 6.984e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

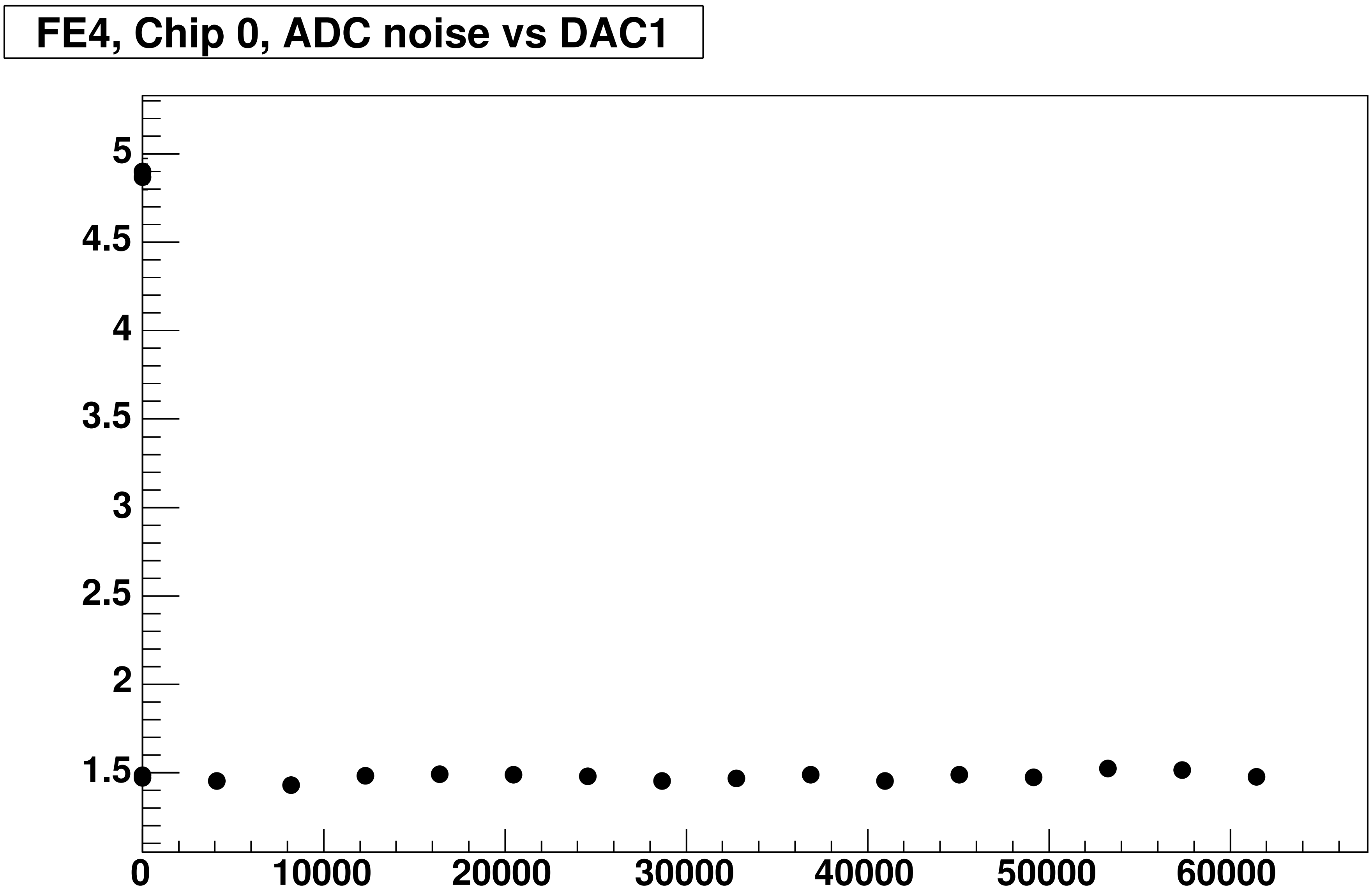


FE4, Chip 0, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

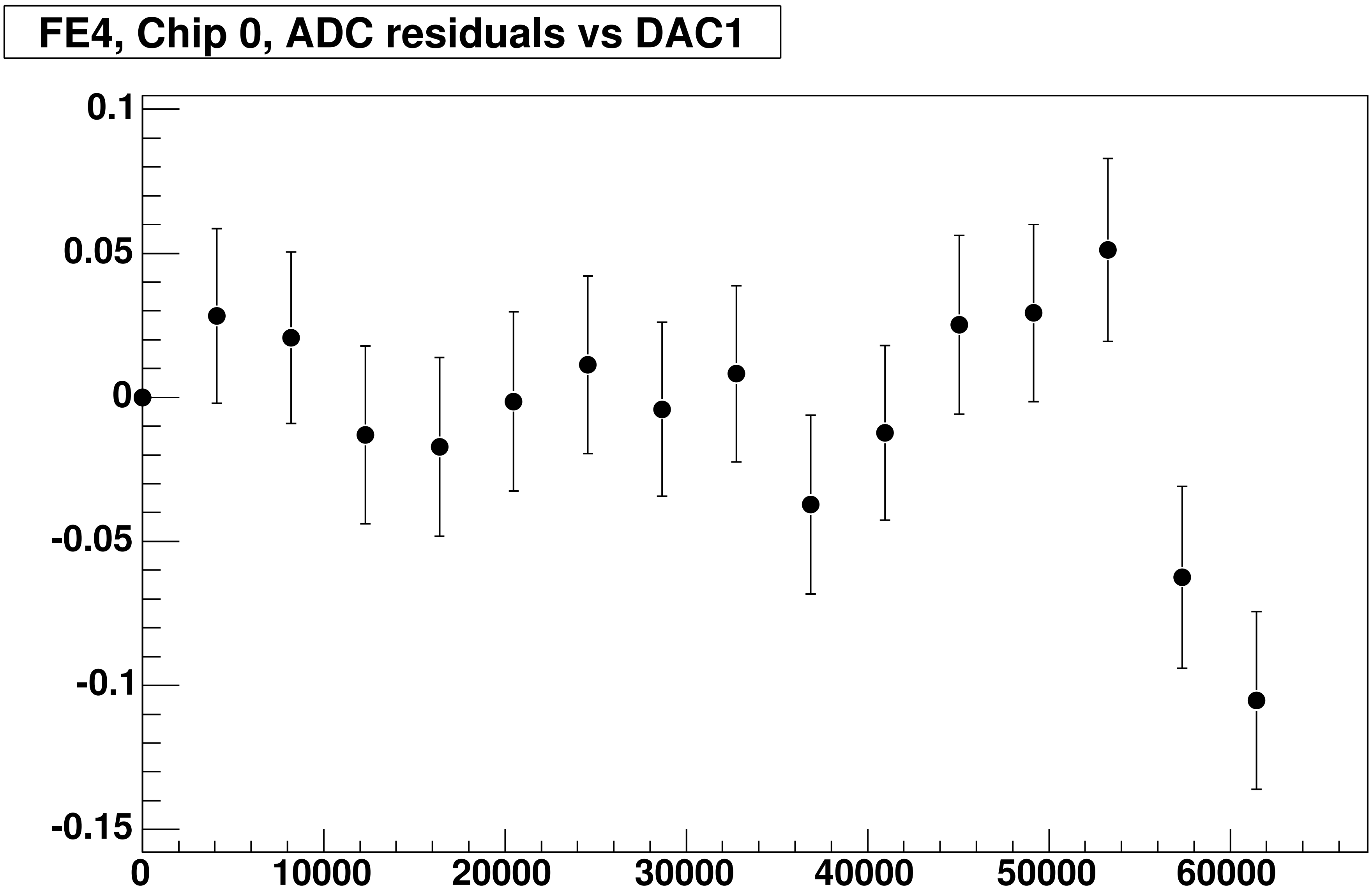

FE4, Chip 0, ADC residuals vs DAC0
5
0
-5
-10
-15
-20
-25
-30
-35
0
10000
20000
30000
40000
50000
60000

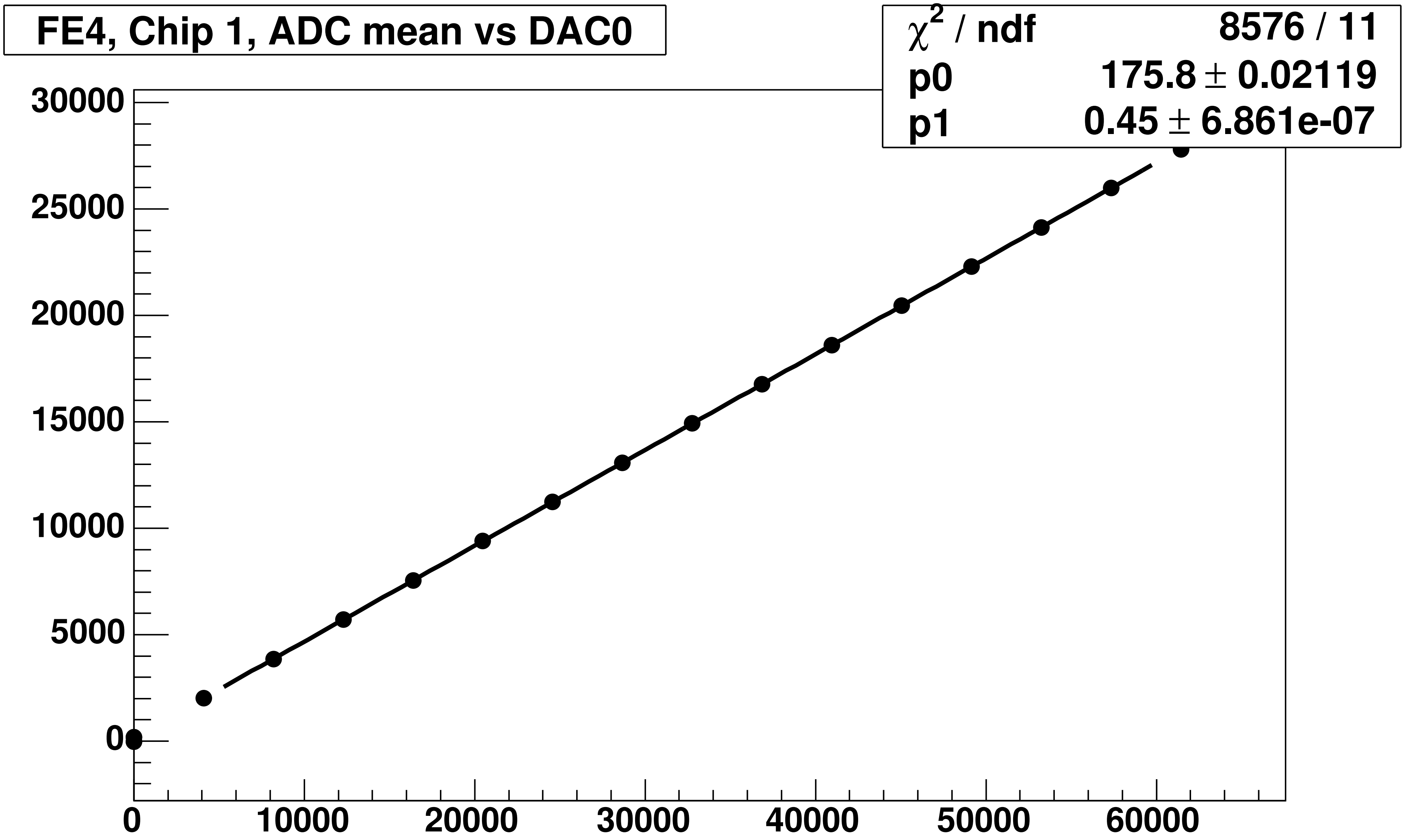


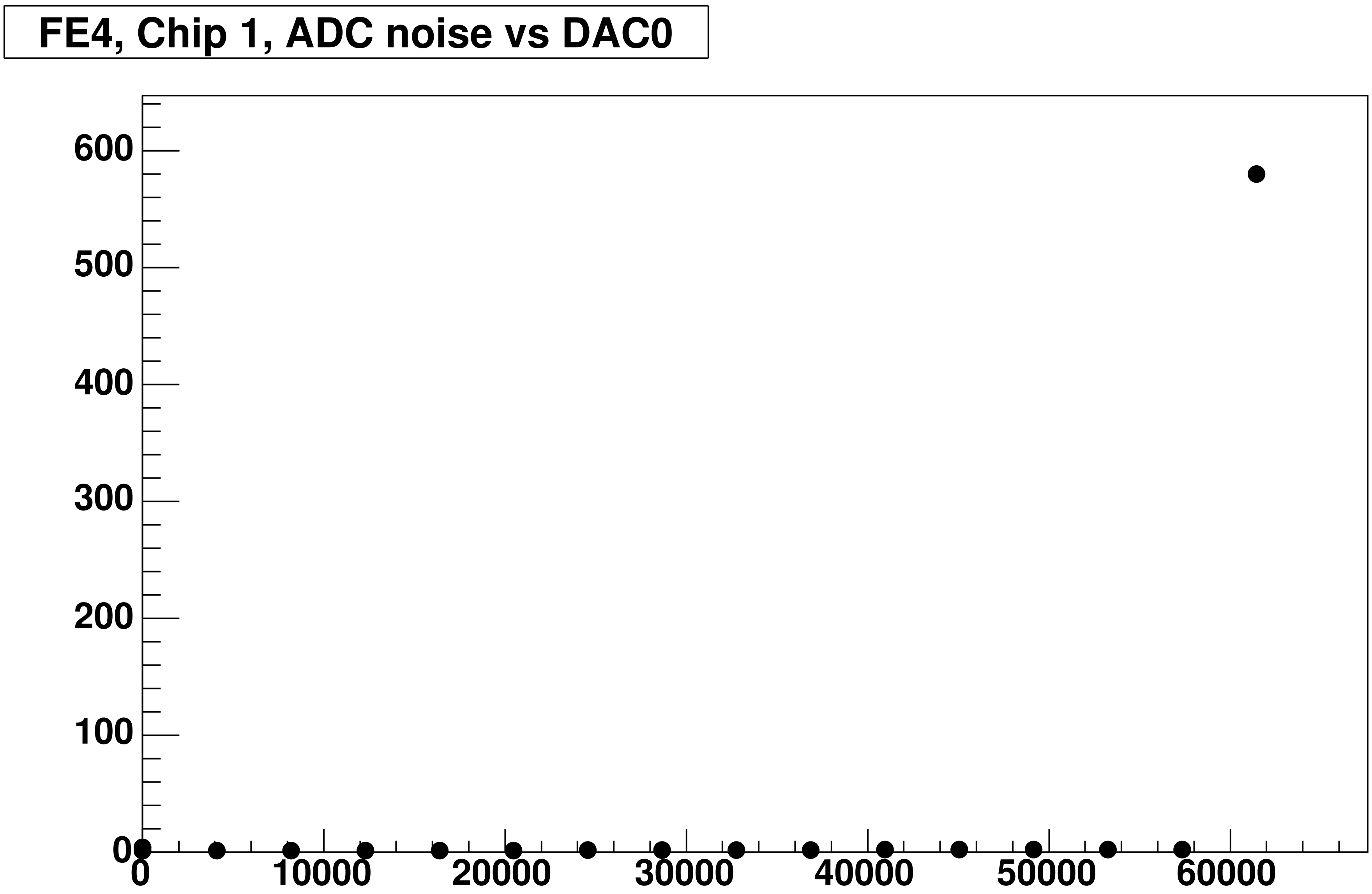
FE4, Chip 0, ADC mean vs DAC1
χ^2 / ndf 10.86 / 11
p0 181.5 ± 0.02008
p1 8.07e-07 ± 5.592e-07
200
150
100
50
0
-50
0
10000
20000
30000
40000
50000
60000

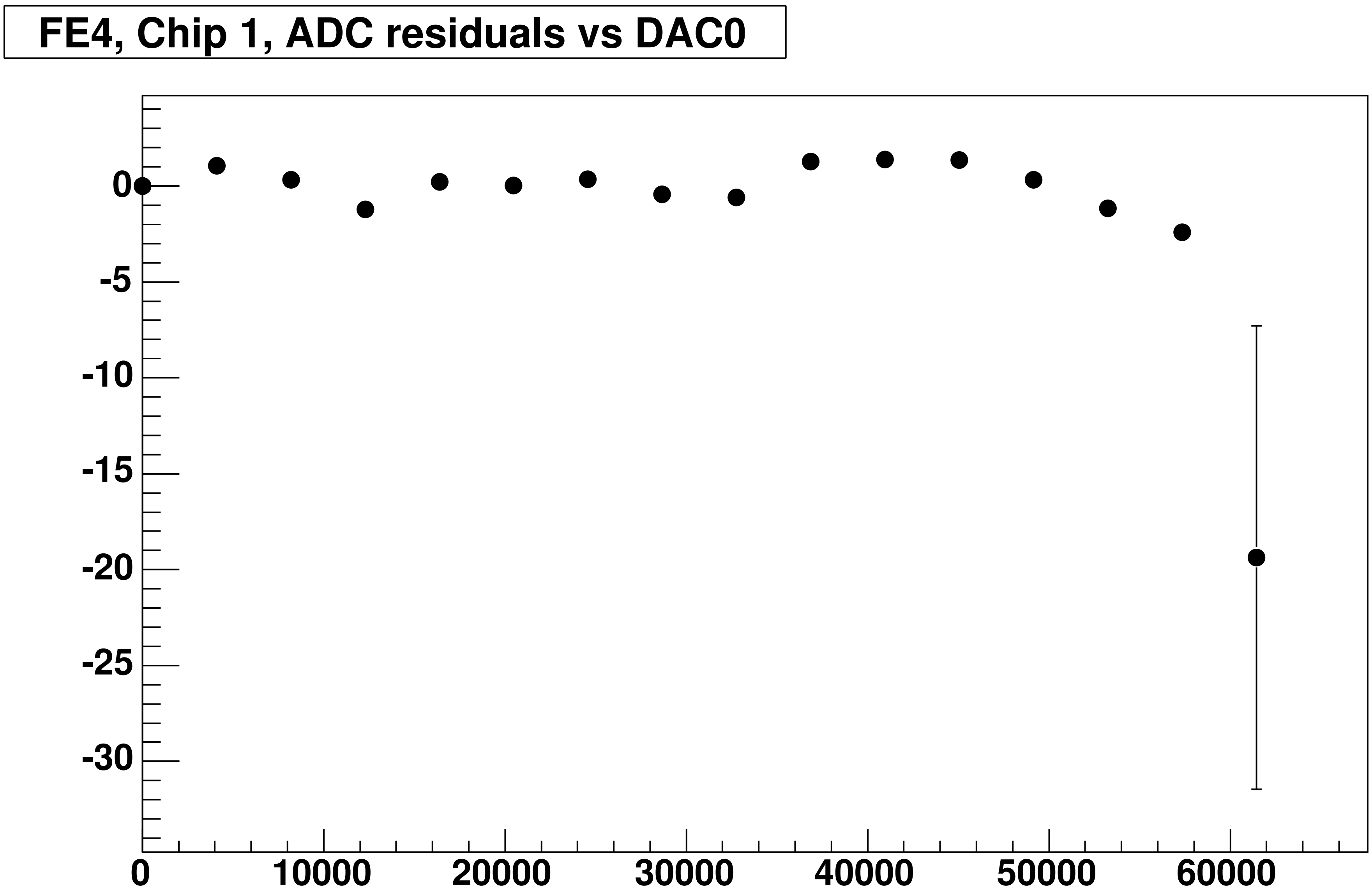


FE4, Chip 0, ADC noise vs DAC1
5
4.5
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

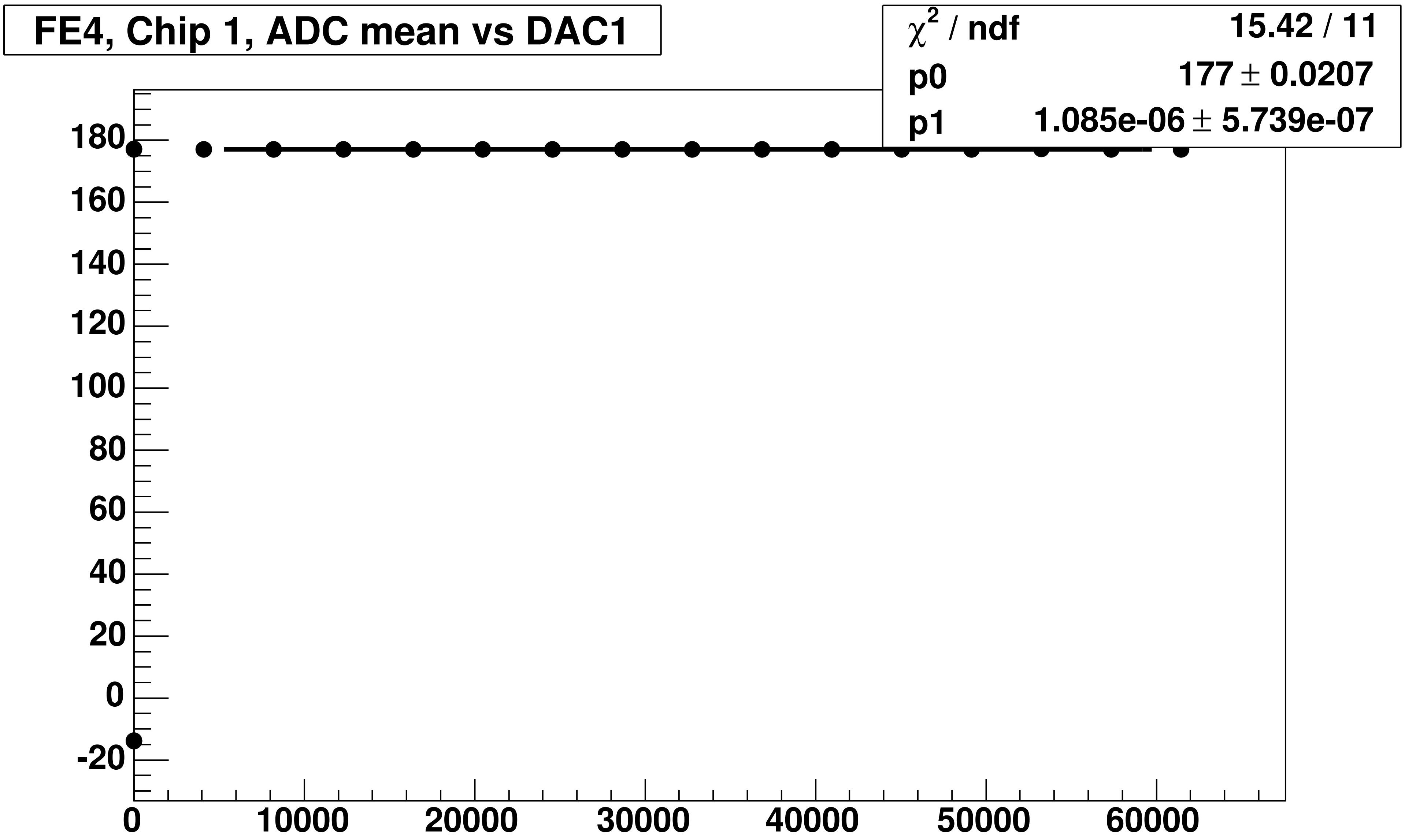

FE4, Chip 0, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000


FE4, Chip 1, ADC mean vs DAC0
χ^2 / ndf 8576 / 11
p0 175.8 ± 0.02119
p1 0.45 ± 6.861e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

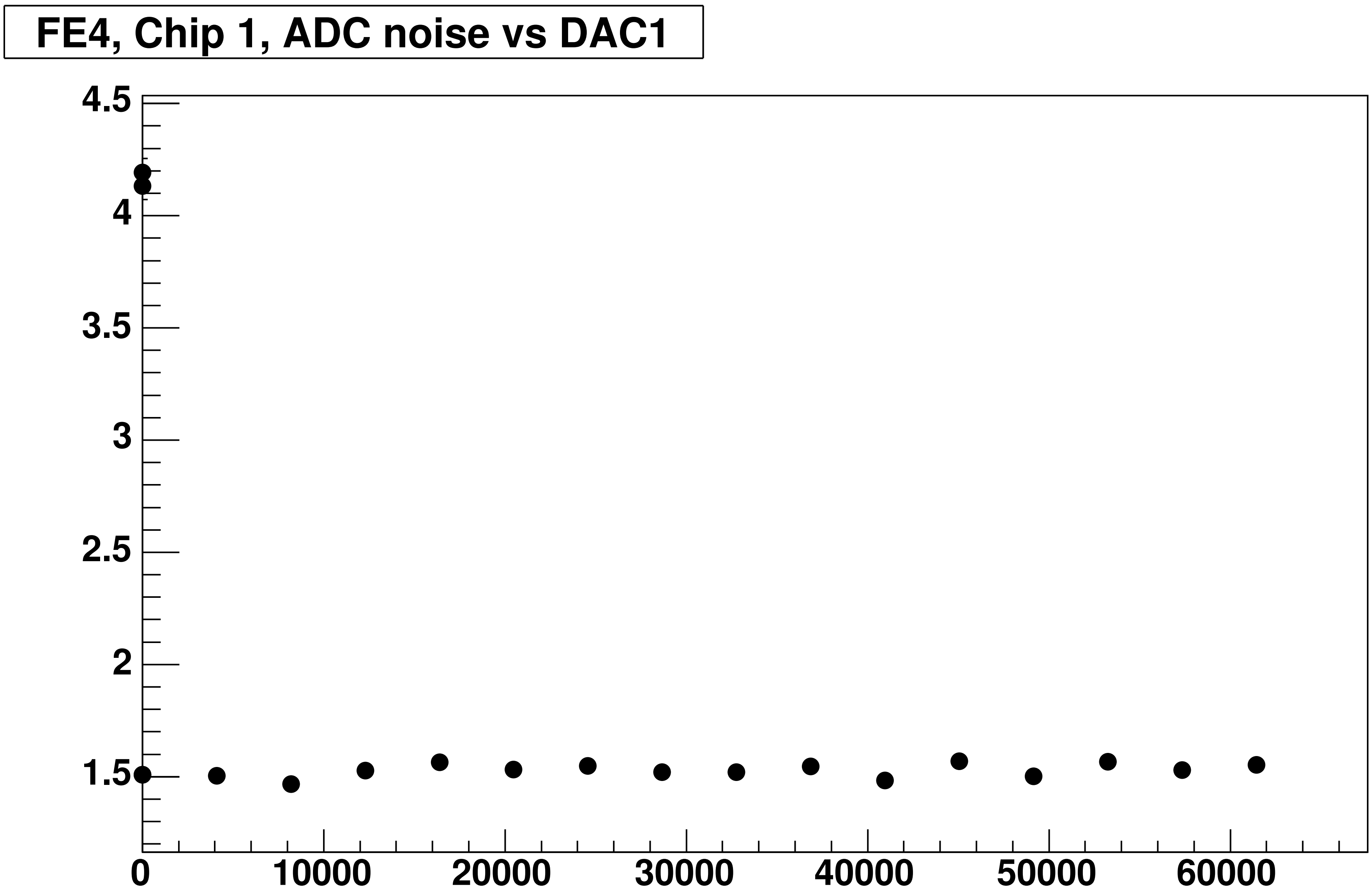

FE4, Chip 1, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

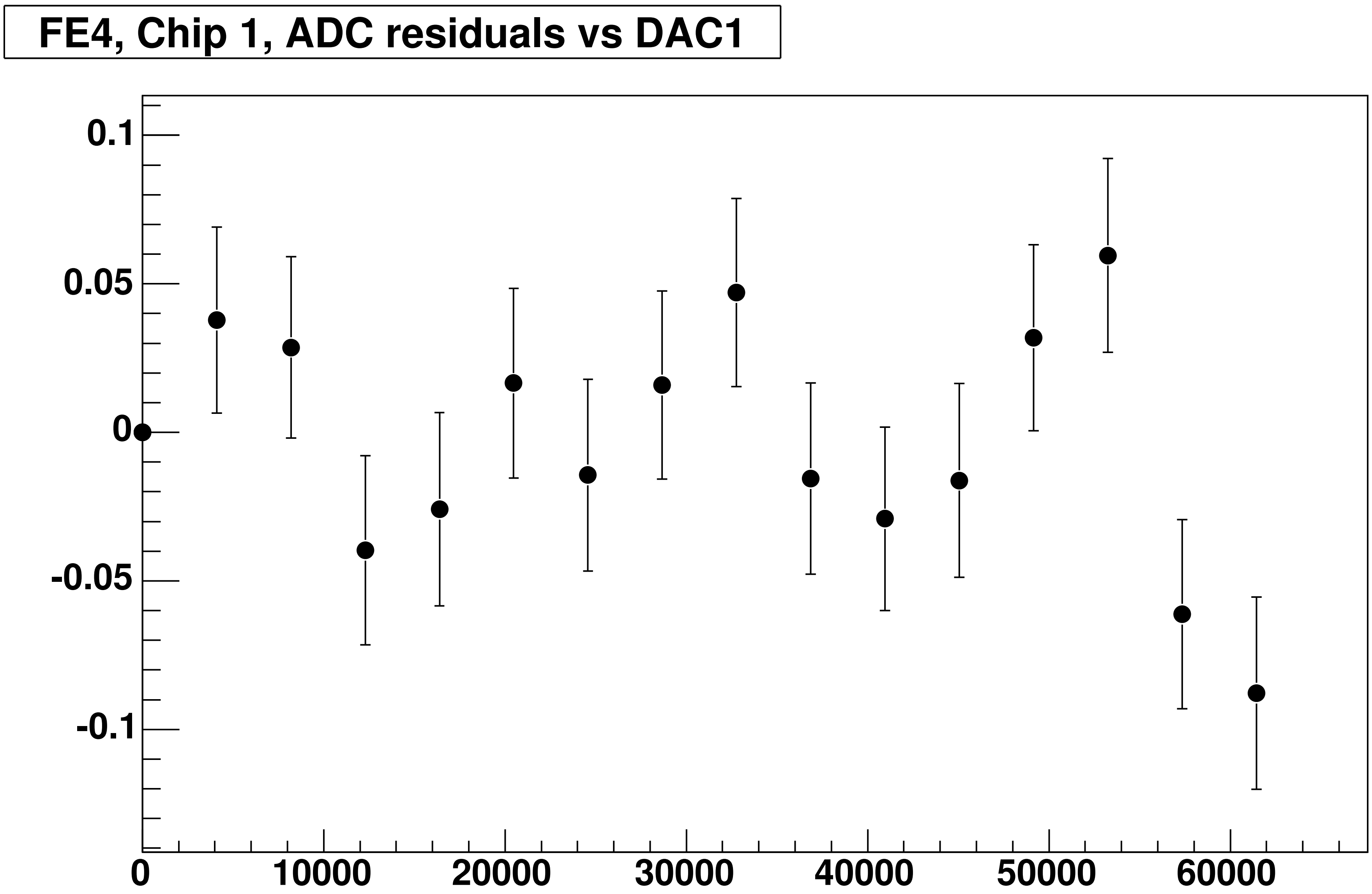


FE4, Chip 1, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

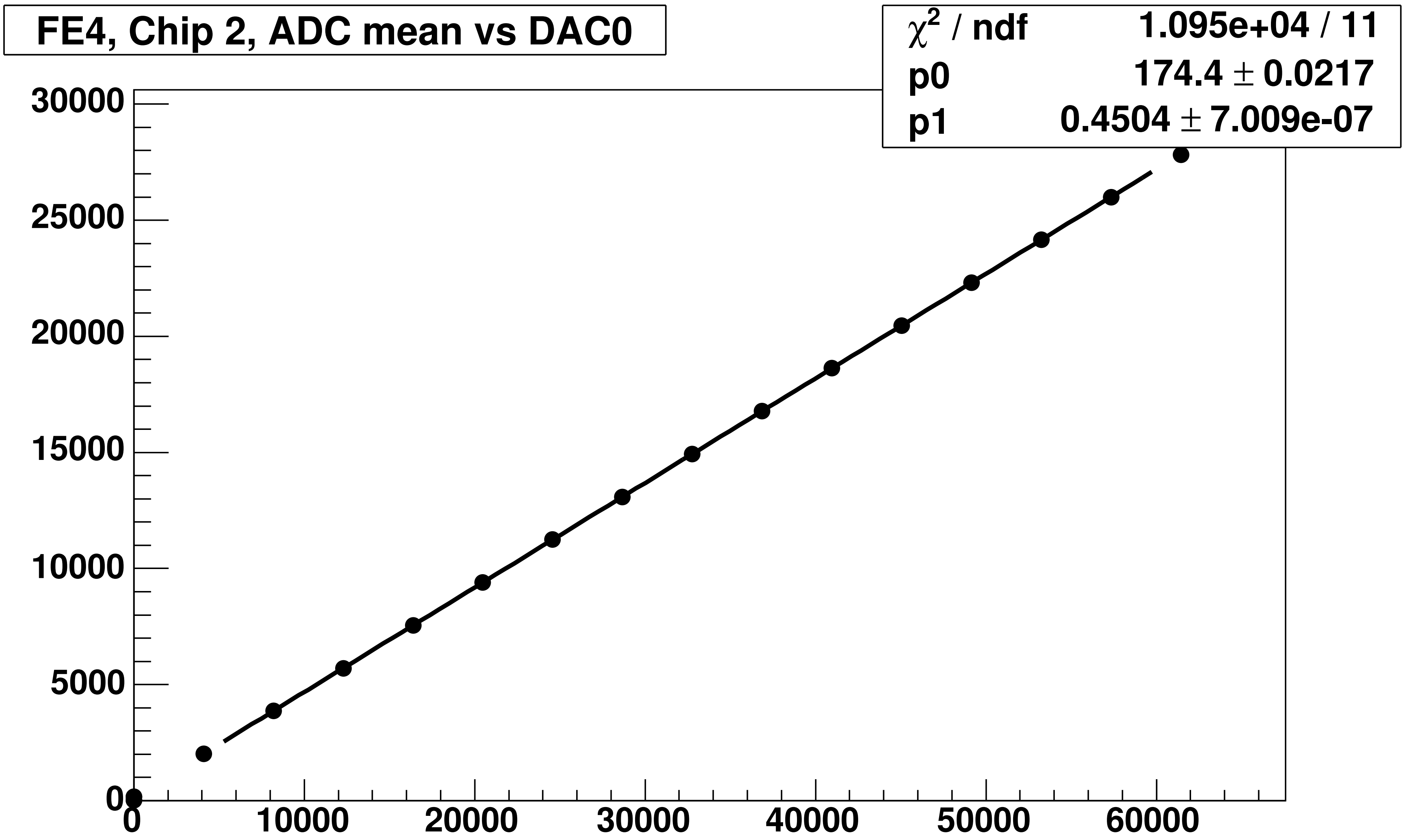


FE4, Chip 1, ADC mean vs DAC1
χ^2 / ndf 15.42 / 11
p0 177 ± 0.0207
p1 1.085e-06 ± 5.739e-07
180
160
140
120
100
80
60
40
20
0
-20
0
10000
20000
30000
40000
50000
60000

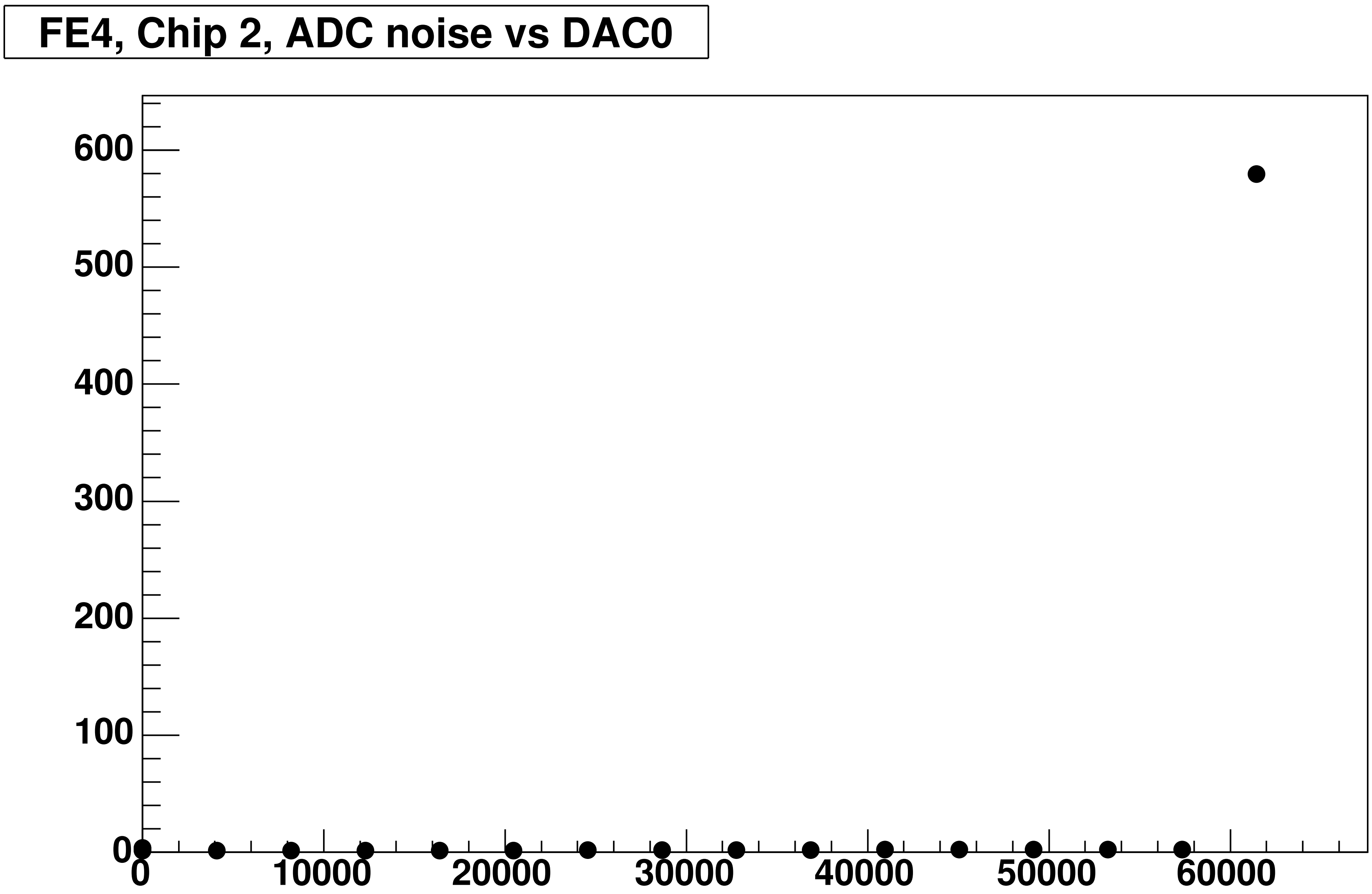

FE4, Chip 1, ADC noise vs DAC1
4.5
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

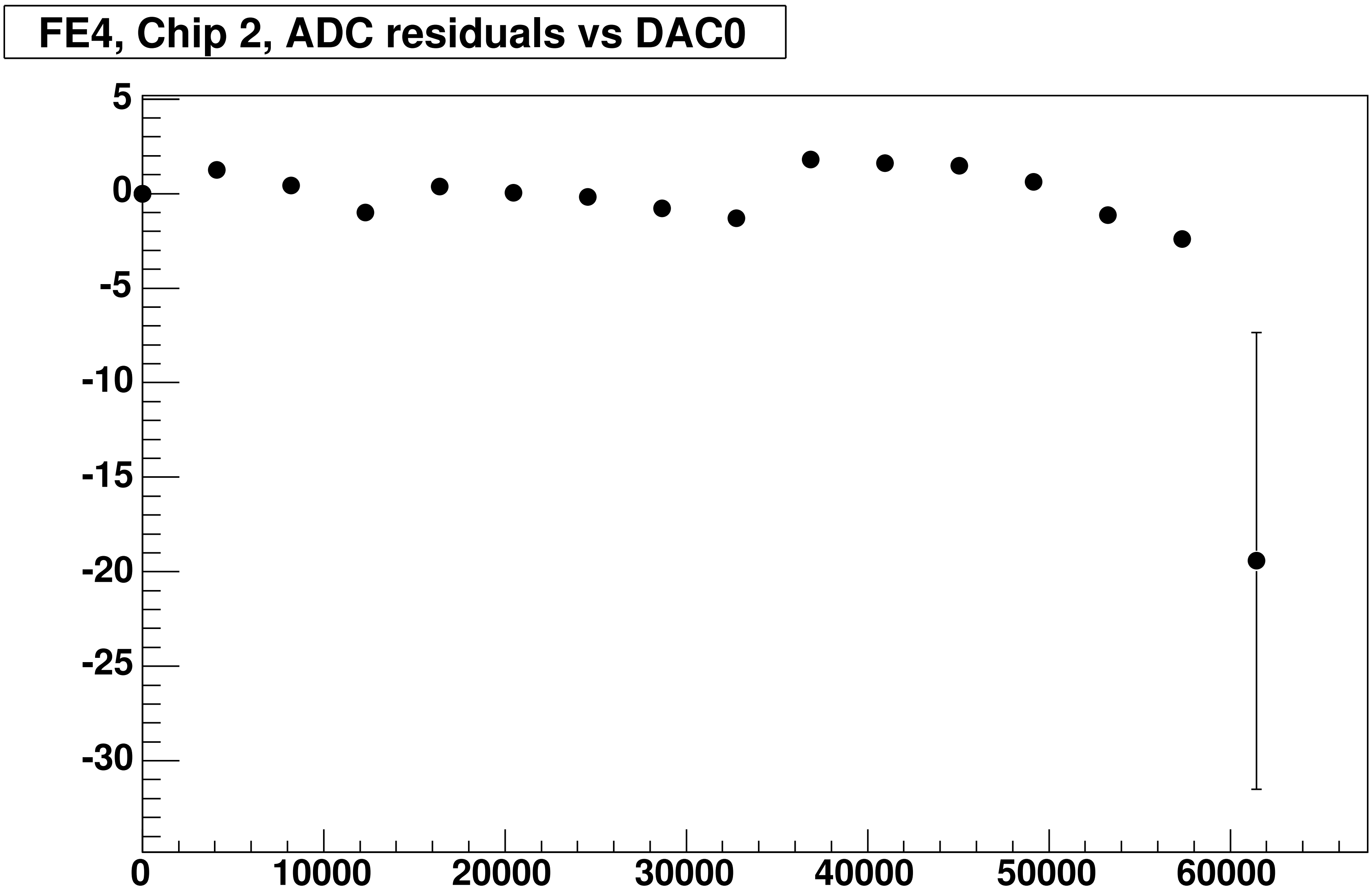


FE4, Chip 1, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

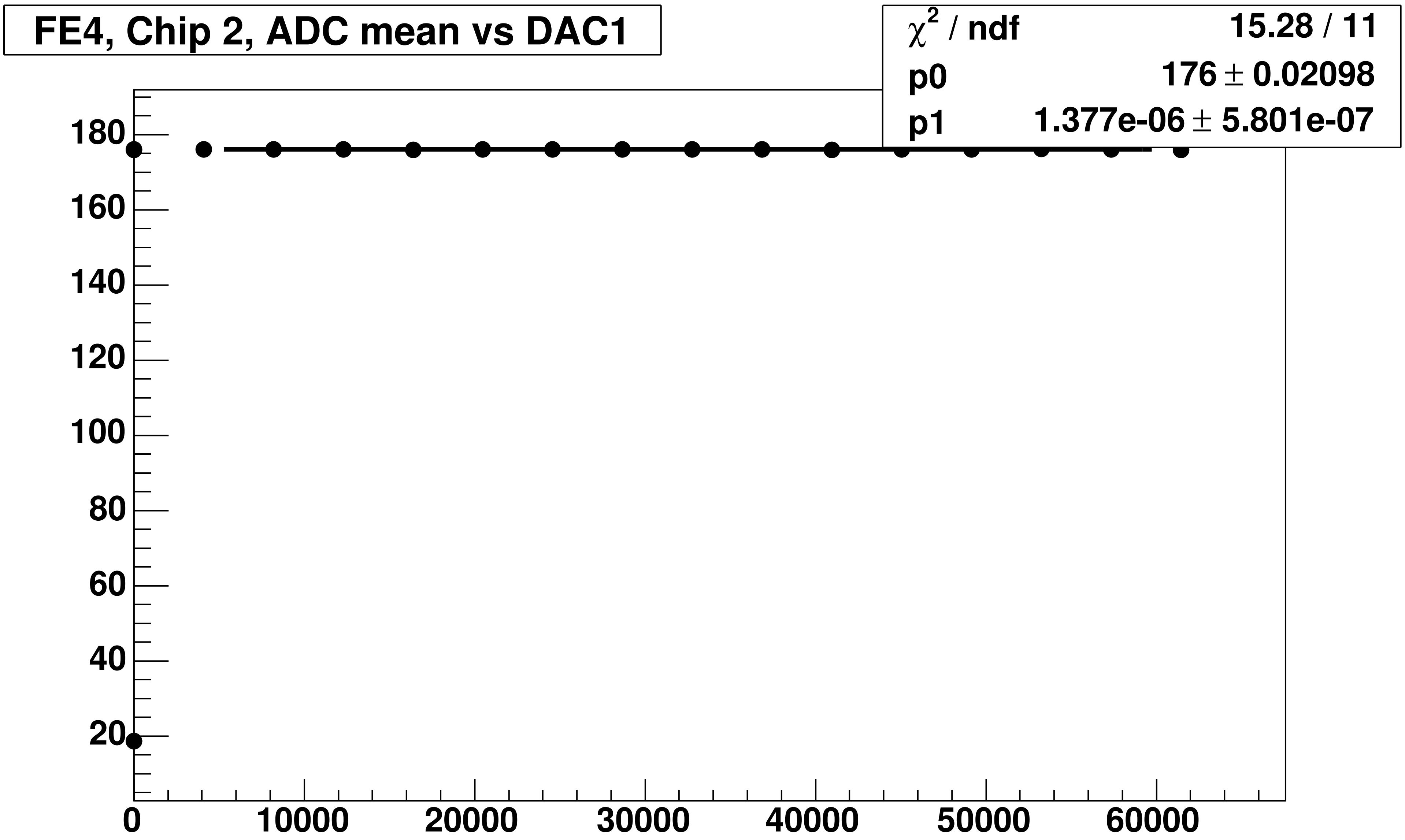


FE4, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1.095e+04 / 11
p0 174.4 ± 0.0217
p1 0.4504 ± 7.009e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

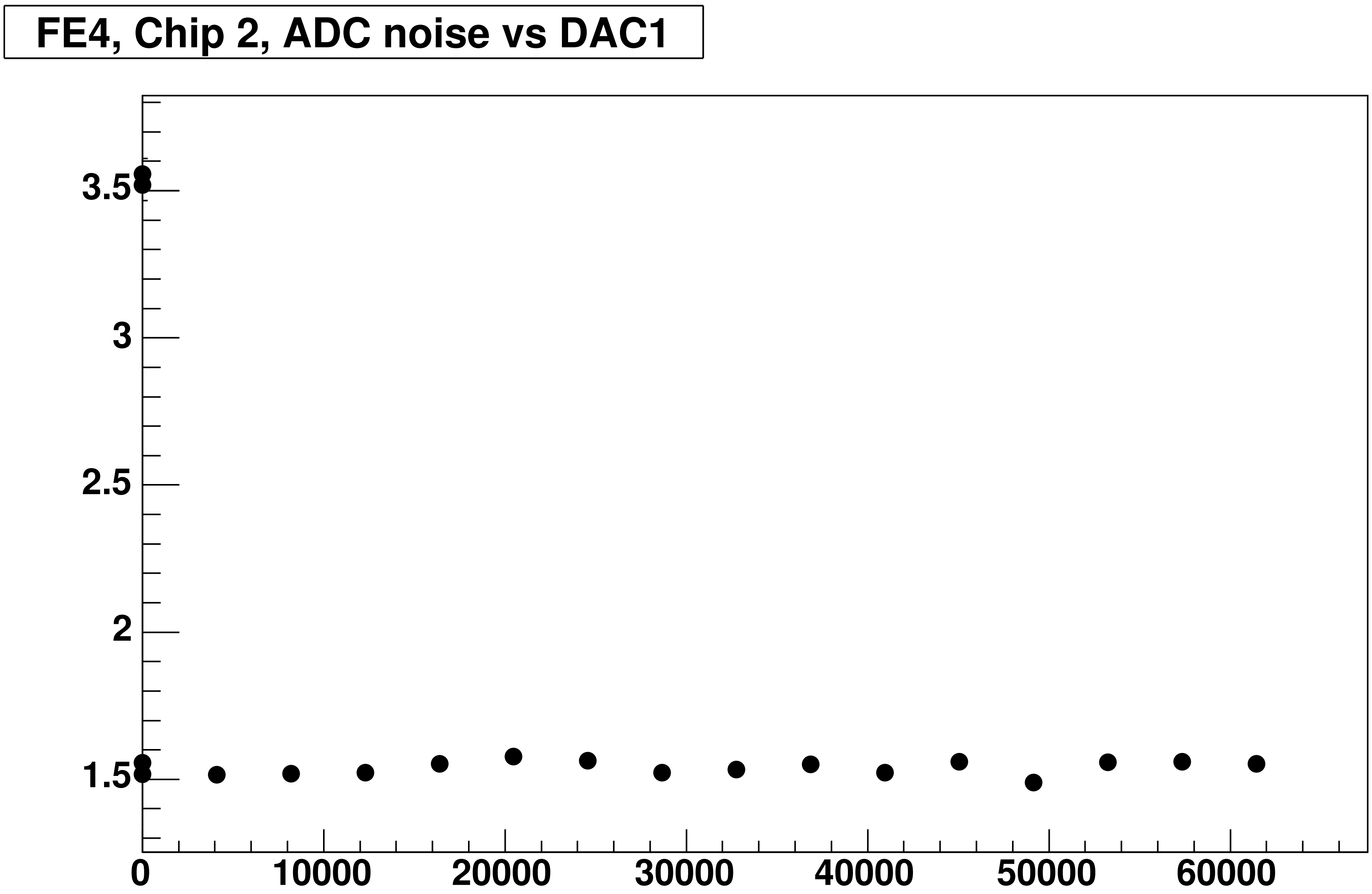

FE4, Chip 2, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

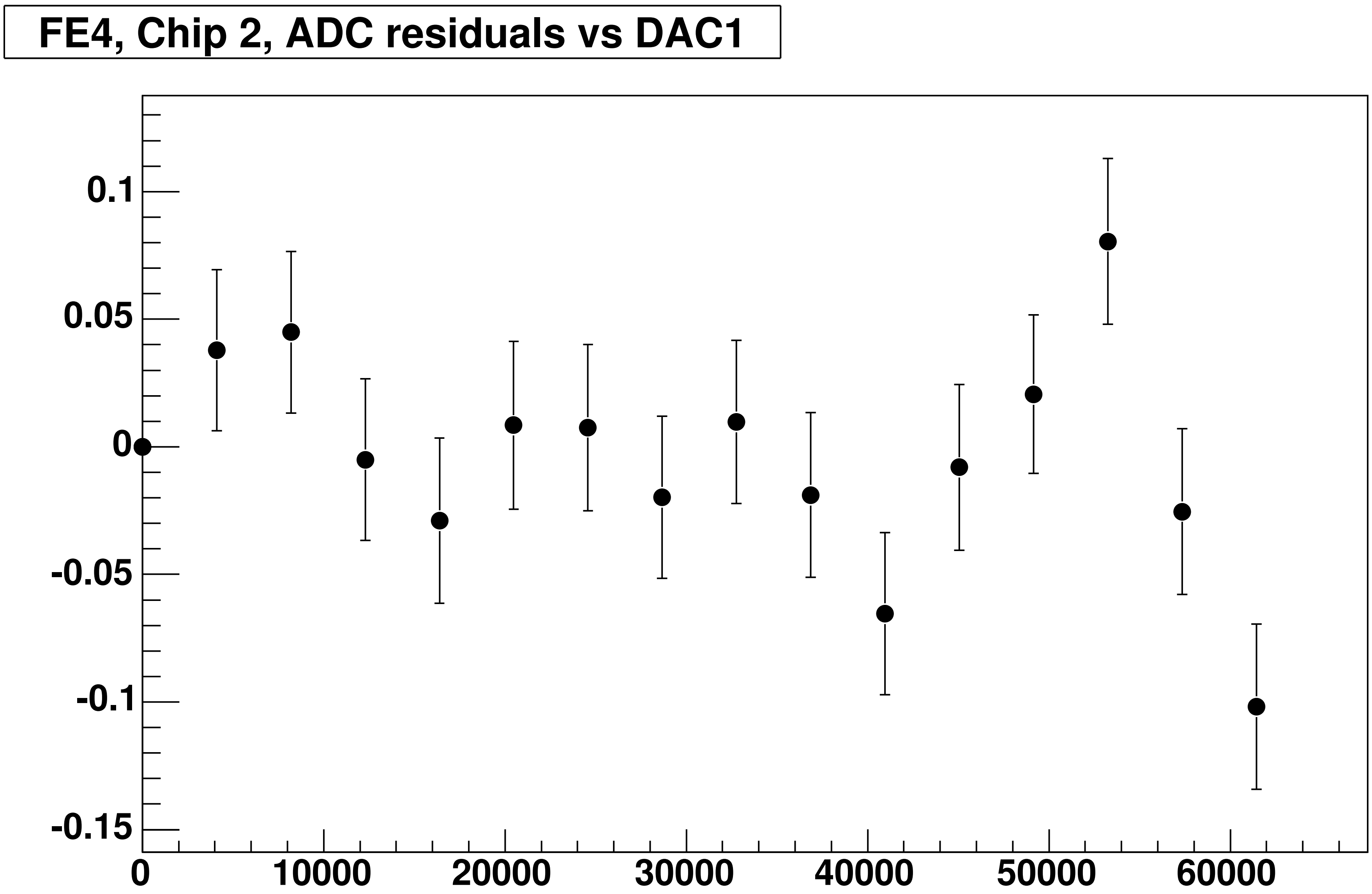


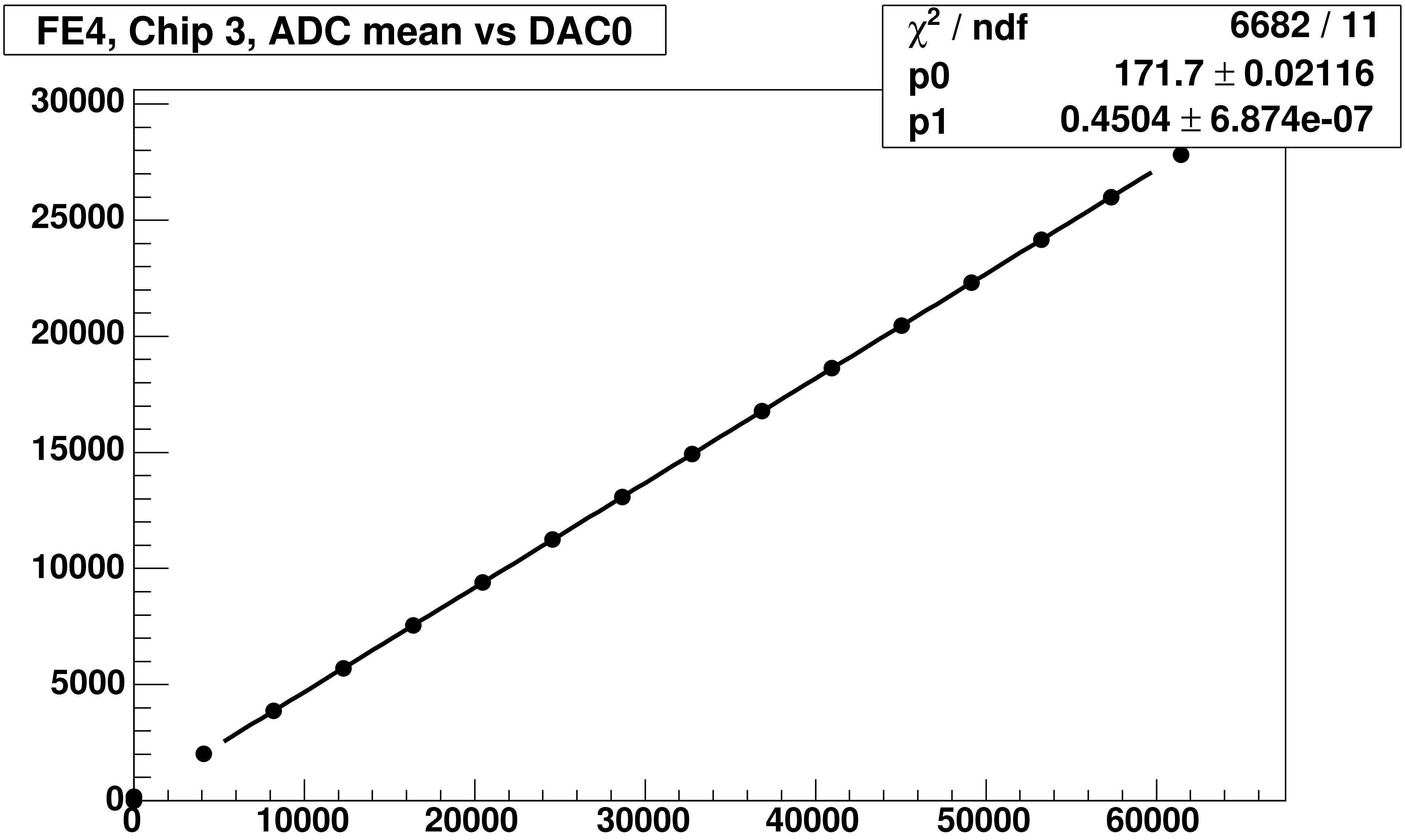
FE4, Chip 2, ADC residuals vs DAC0
5
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000



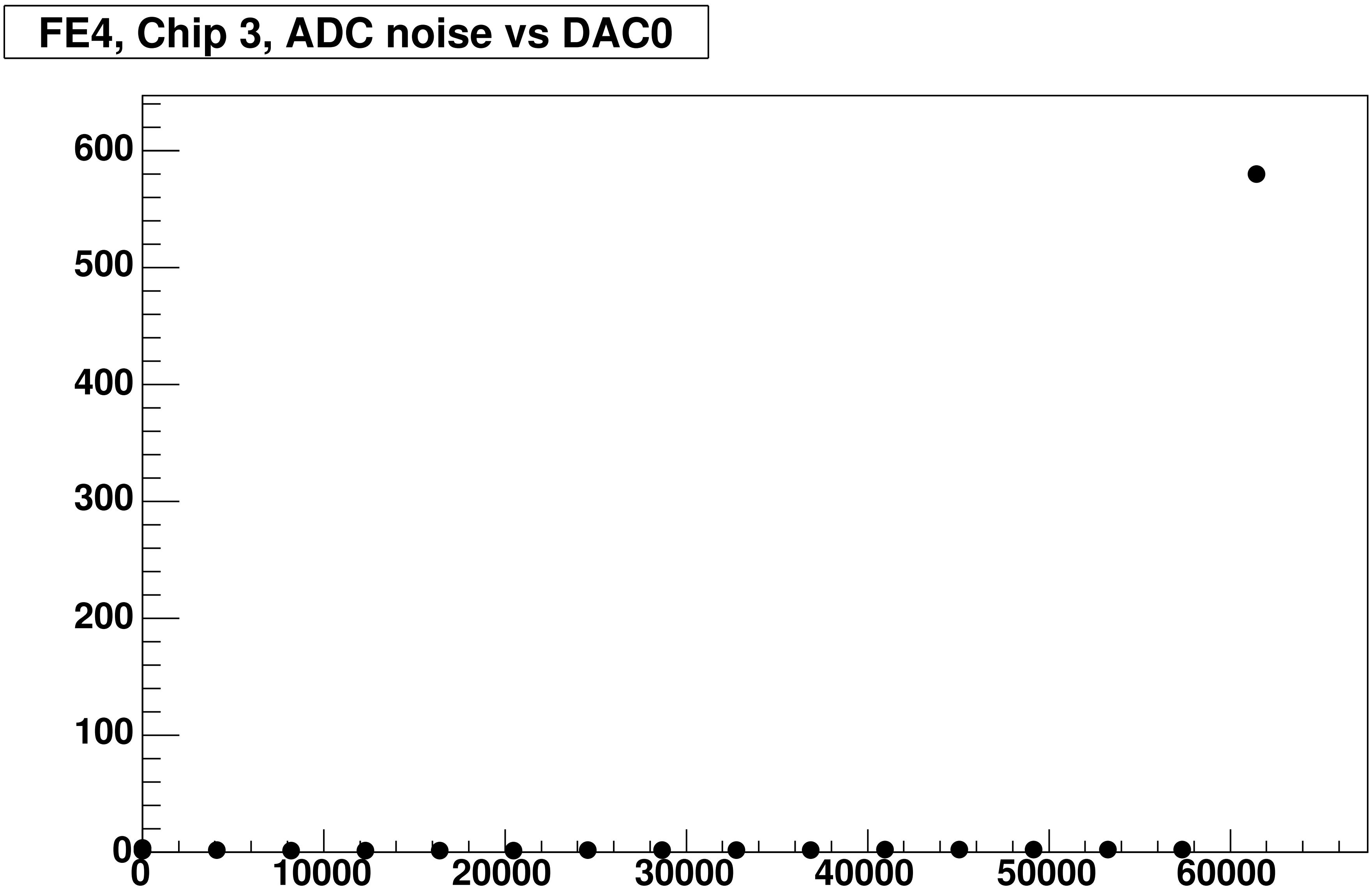
FE4, Chip 2, ADC mean vs DAC1
χ^2 / ndf 15.28 / 11
p0 176 ± 0.02098
p1 1.377e-06 ± 5.801e-07
180
160
140
120
100
80
60
40
20
0
10000
20000
30000
40000
50000
60000


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

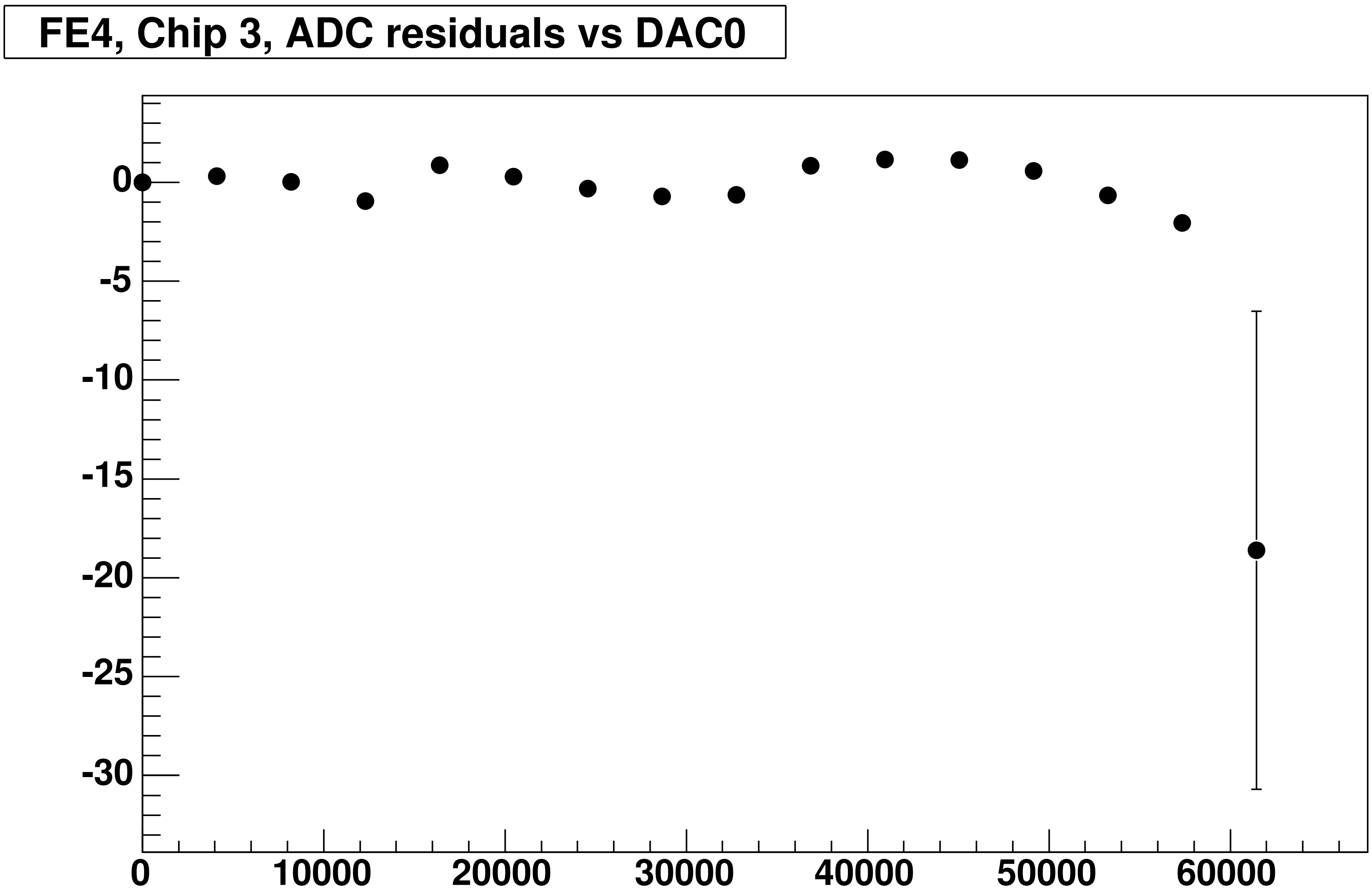

FE4, Chip 2, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

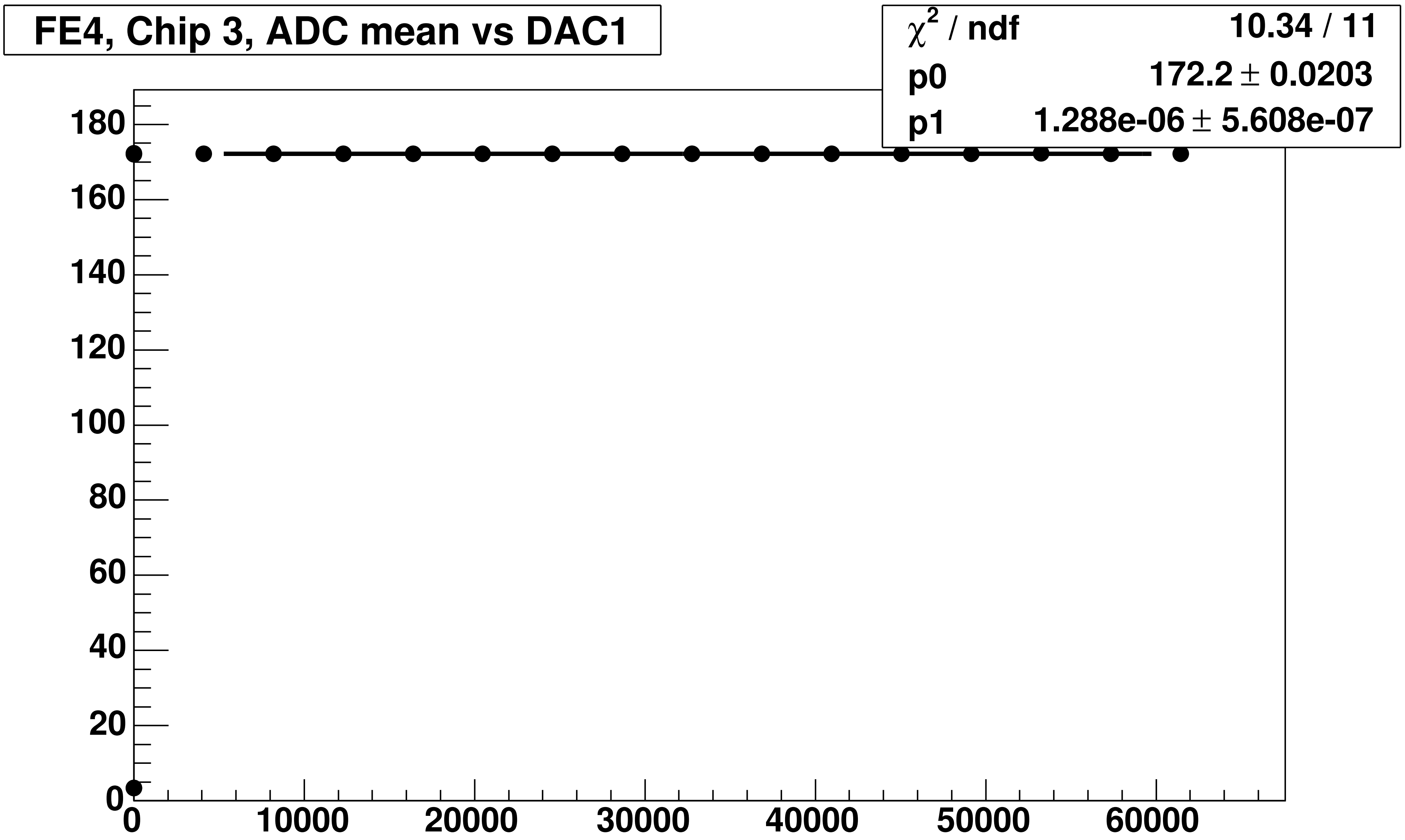


FE4, Chip 3, ADC mean vs DAC0
χ^2 / ndf 6682 / 11
p0 171.7 ± 0.02116
p1 0.4504 ± 6.874e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

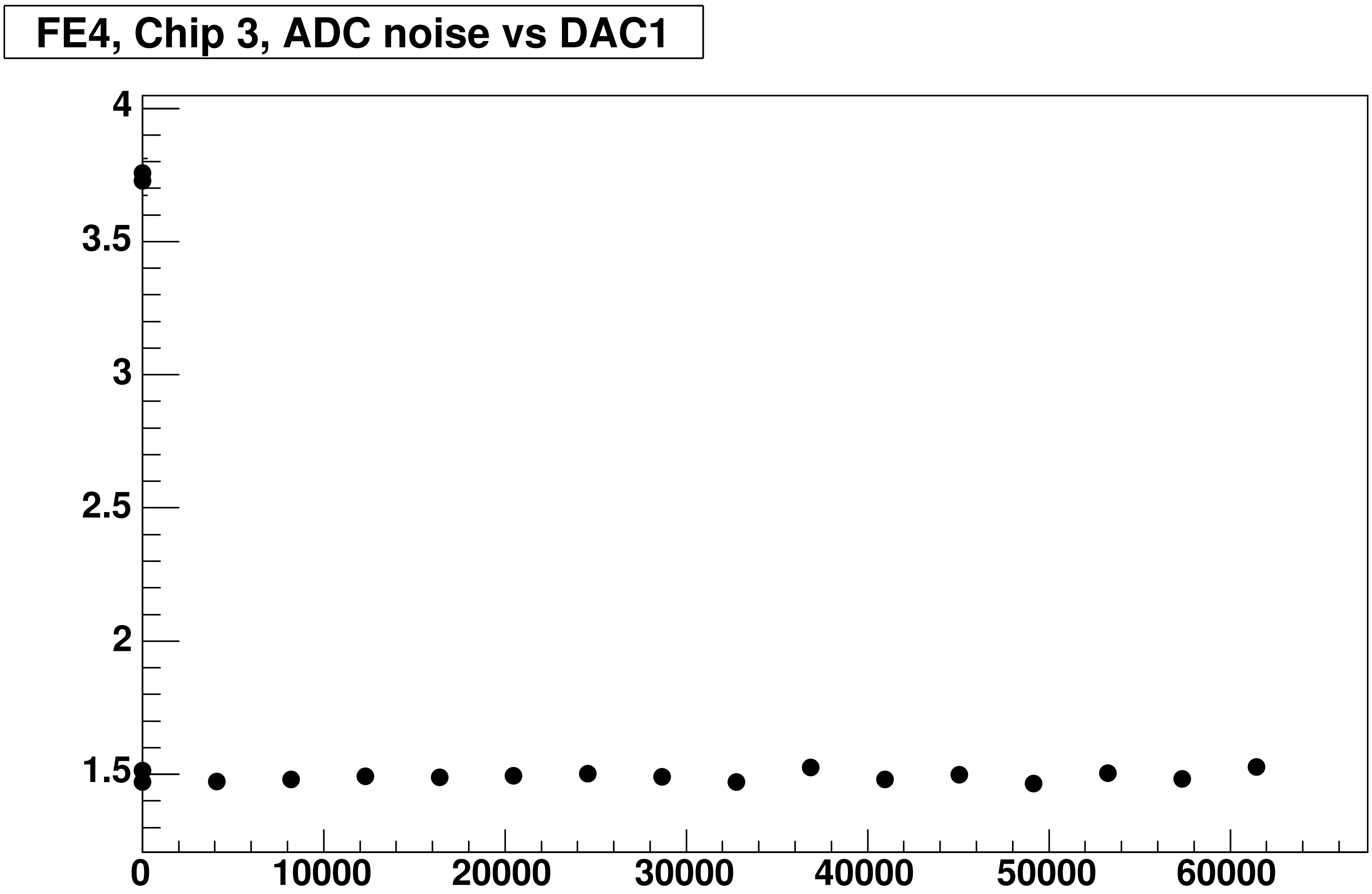


FE4, Chip 3, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

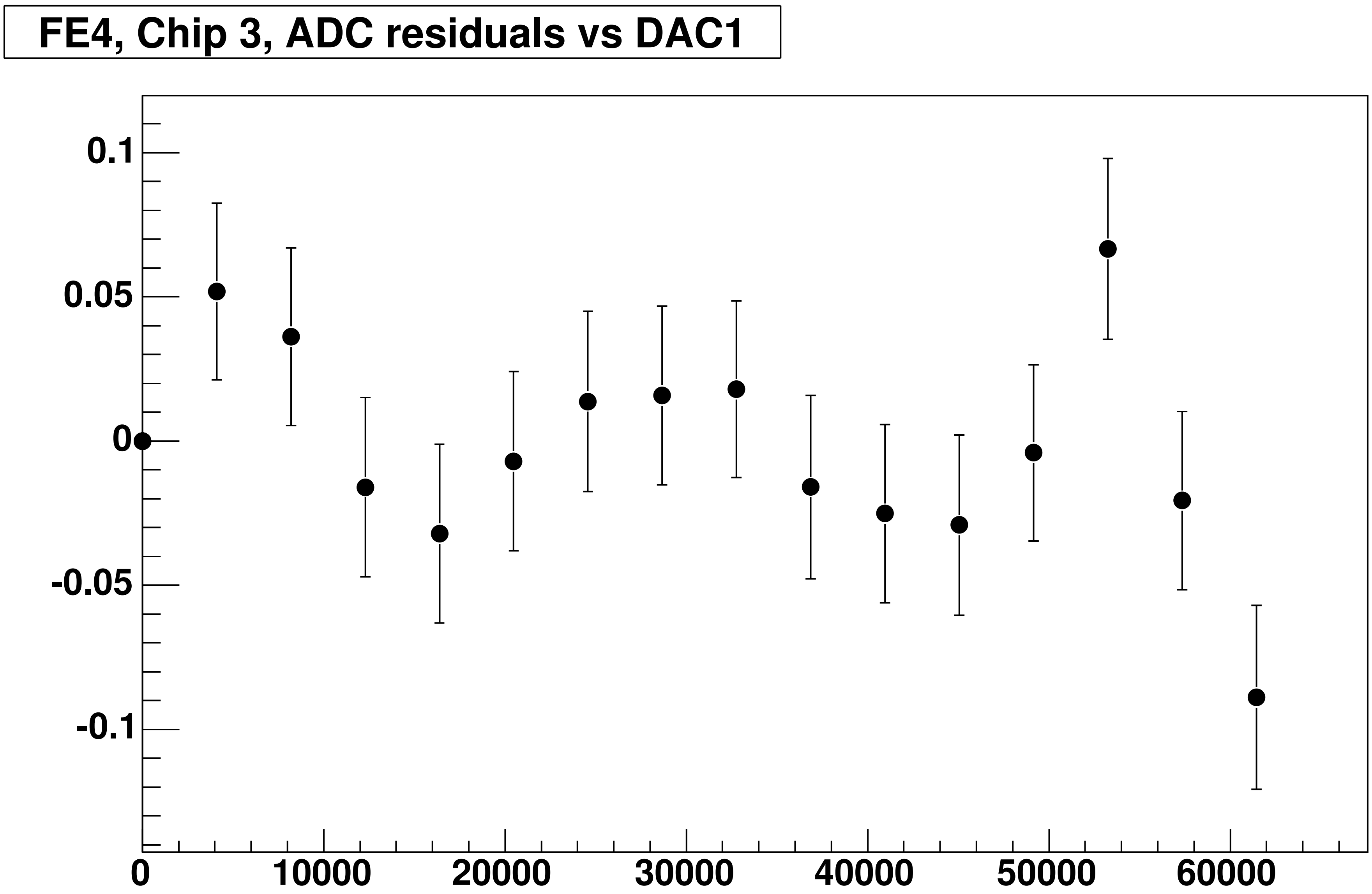

FE4, Chip 3, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

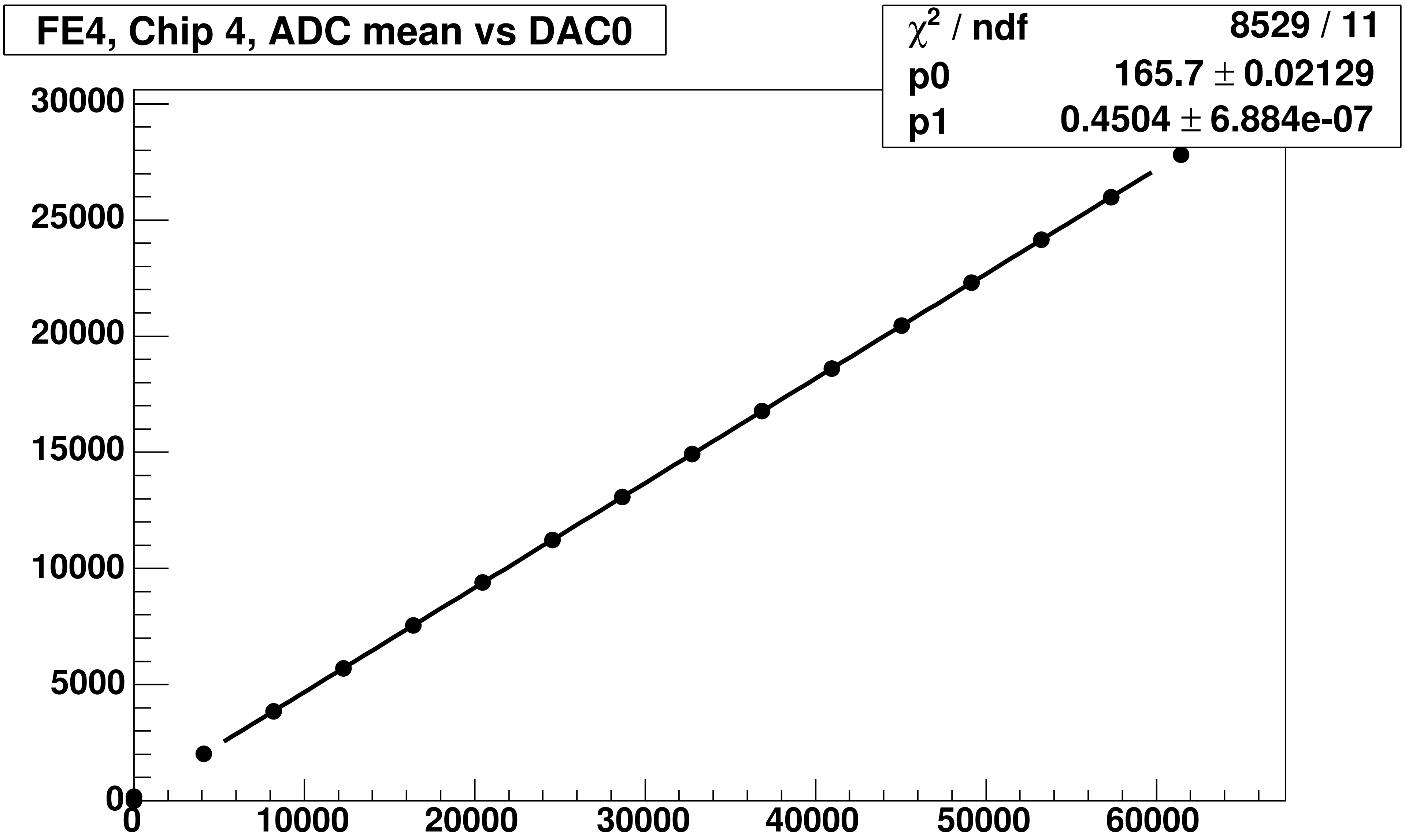


FE4, Chip 3, ADC mean vs DAC1
χ^2 / ndf 10.34 / 11
p0 172.2 ± 0.0203
p1 1.288e-06 ± 5.608e-07
0
20
40
60
80
100
120
140
160
180
0
10000
20000
30000
40000
50000
60000

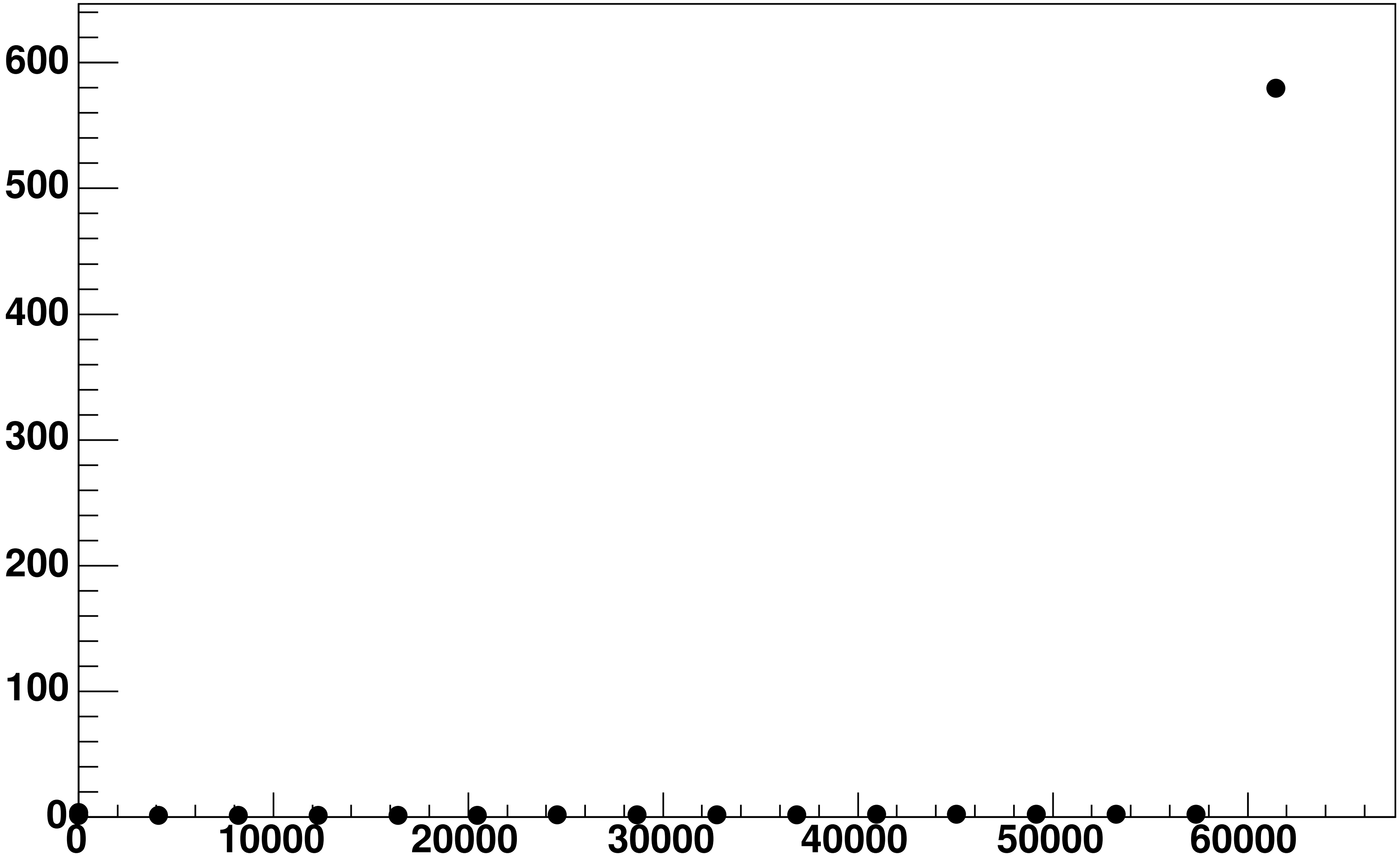


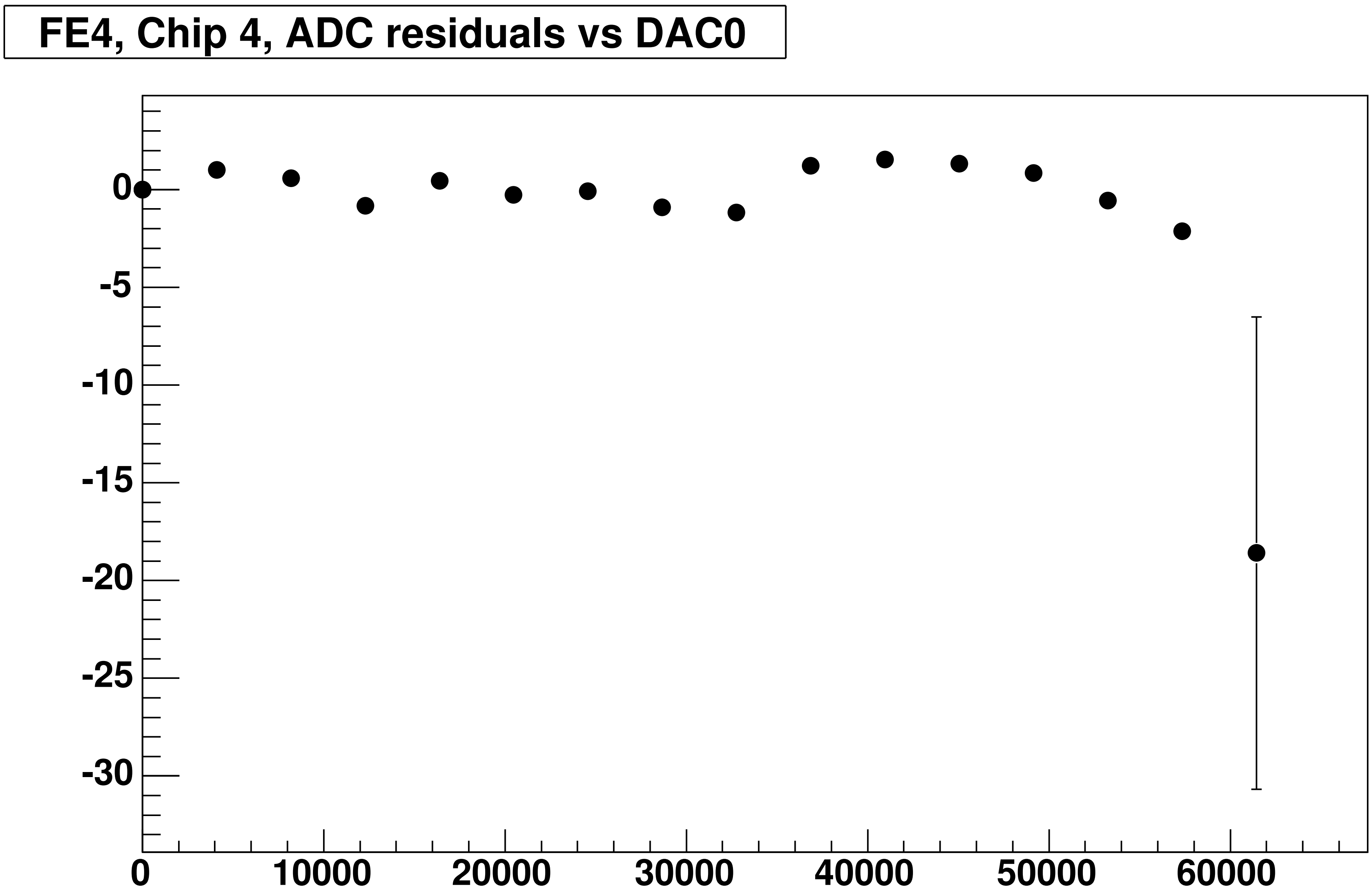
FE4, Chip 3, ADC noise vs DAC1
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

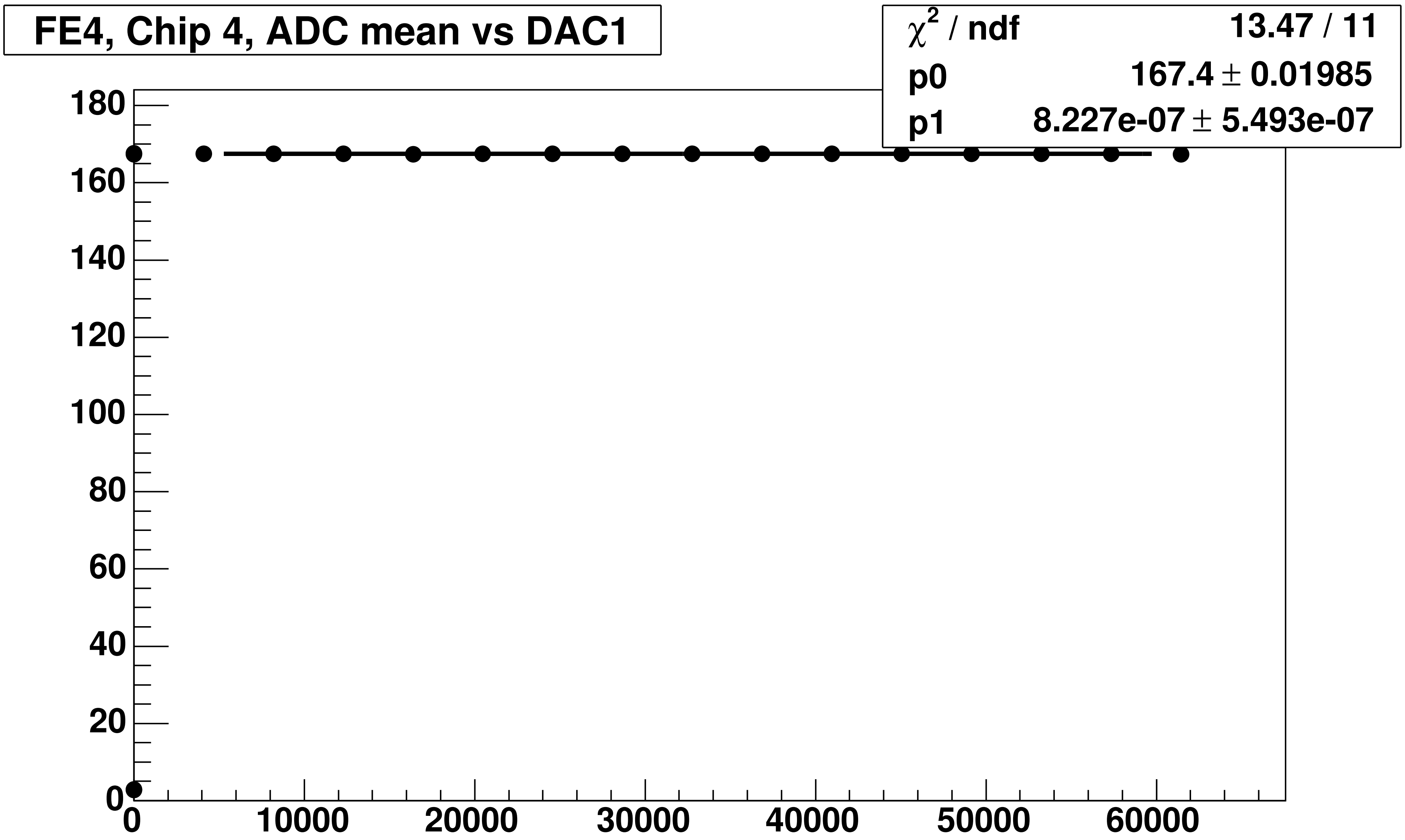

FE4, Chip 3, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

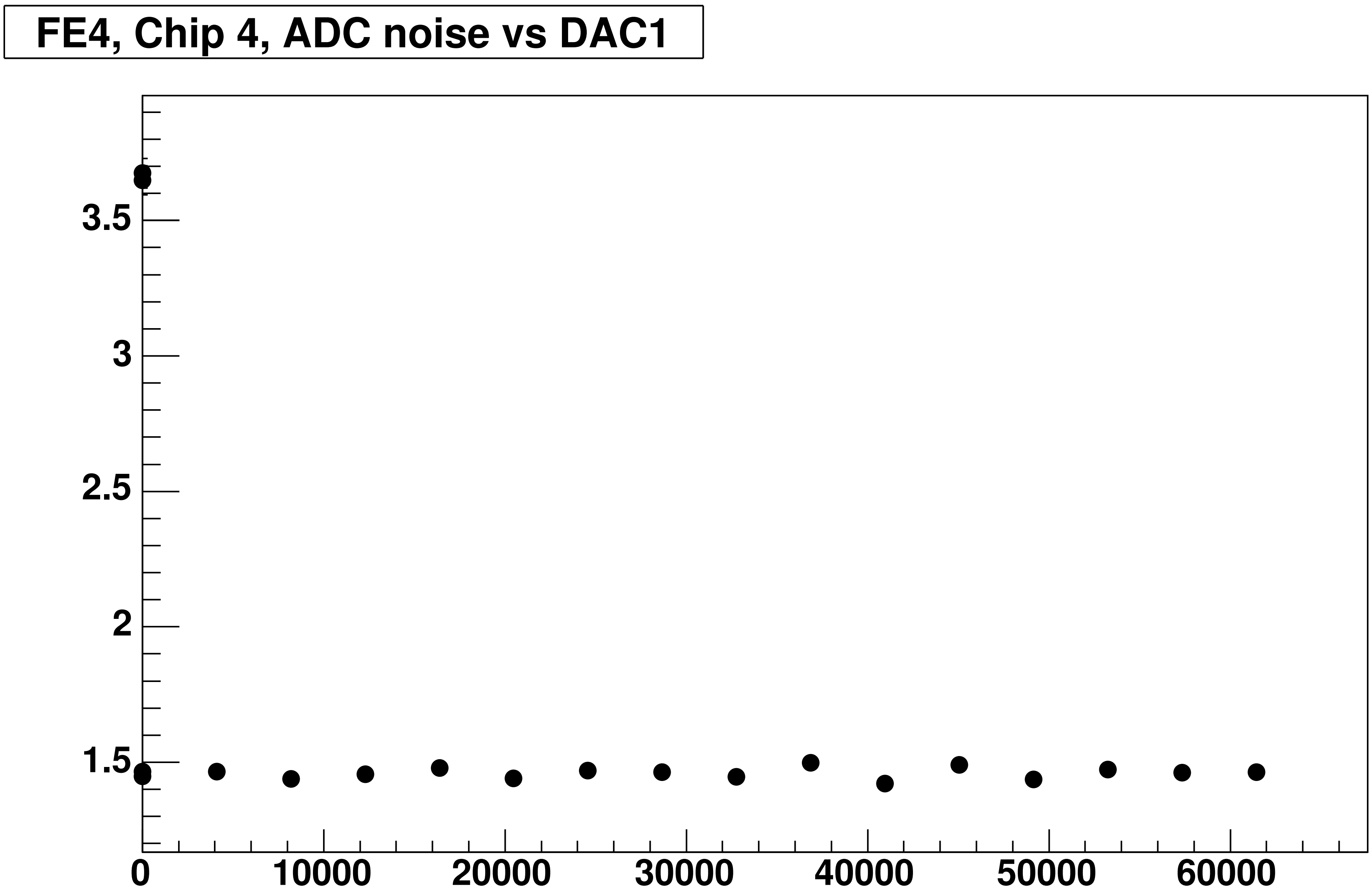

FE4, Chip 4, ADC mean vs DAC0
χ^2 / ndf 8529 / 11
p0 165.7 ± 0.02129
p1 0.4504 ± 6.884e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

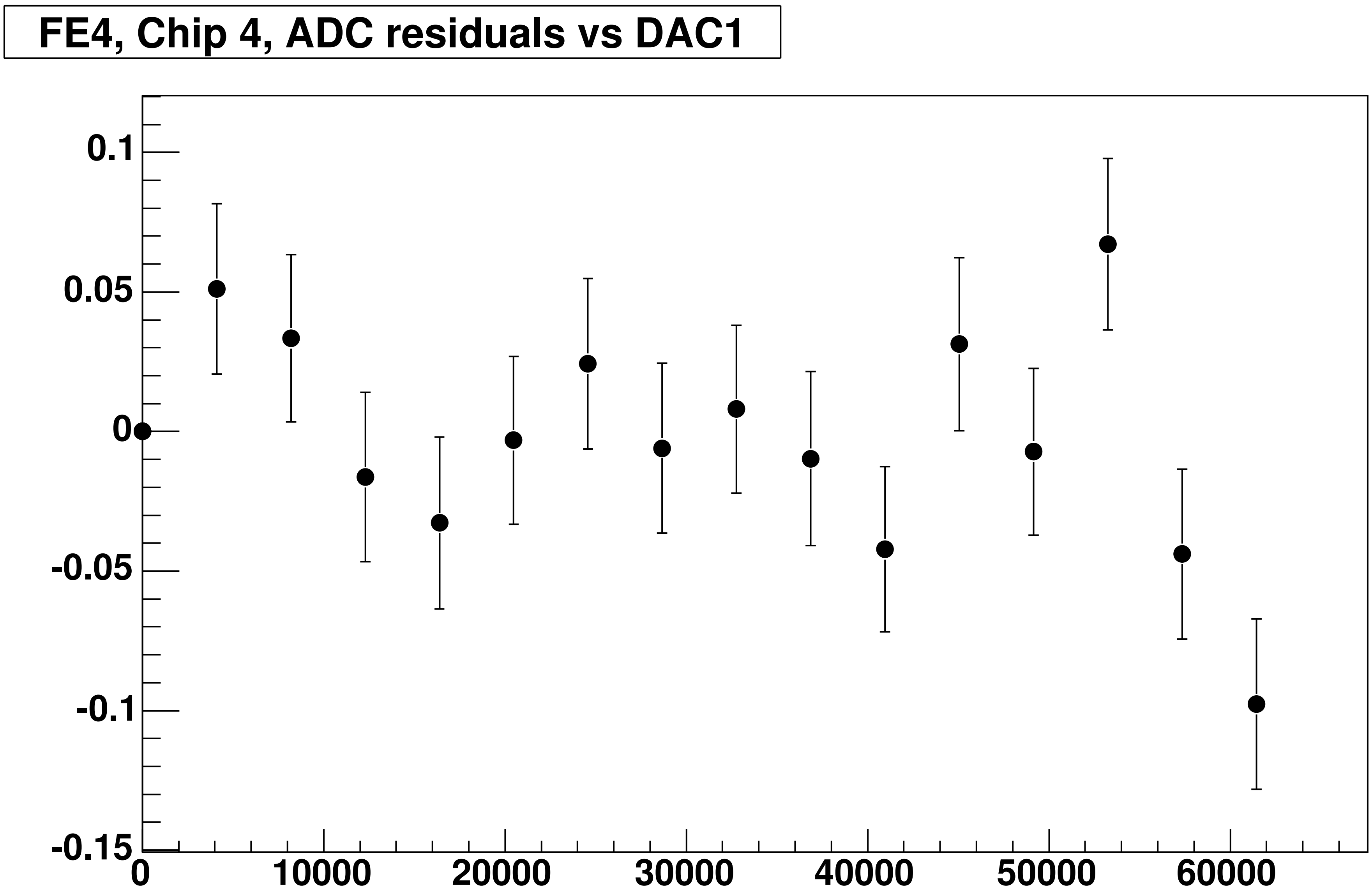
FE4, Chip 4, ADC noise vs DAC0



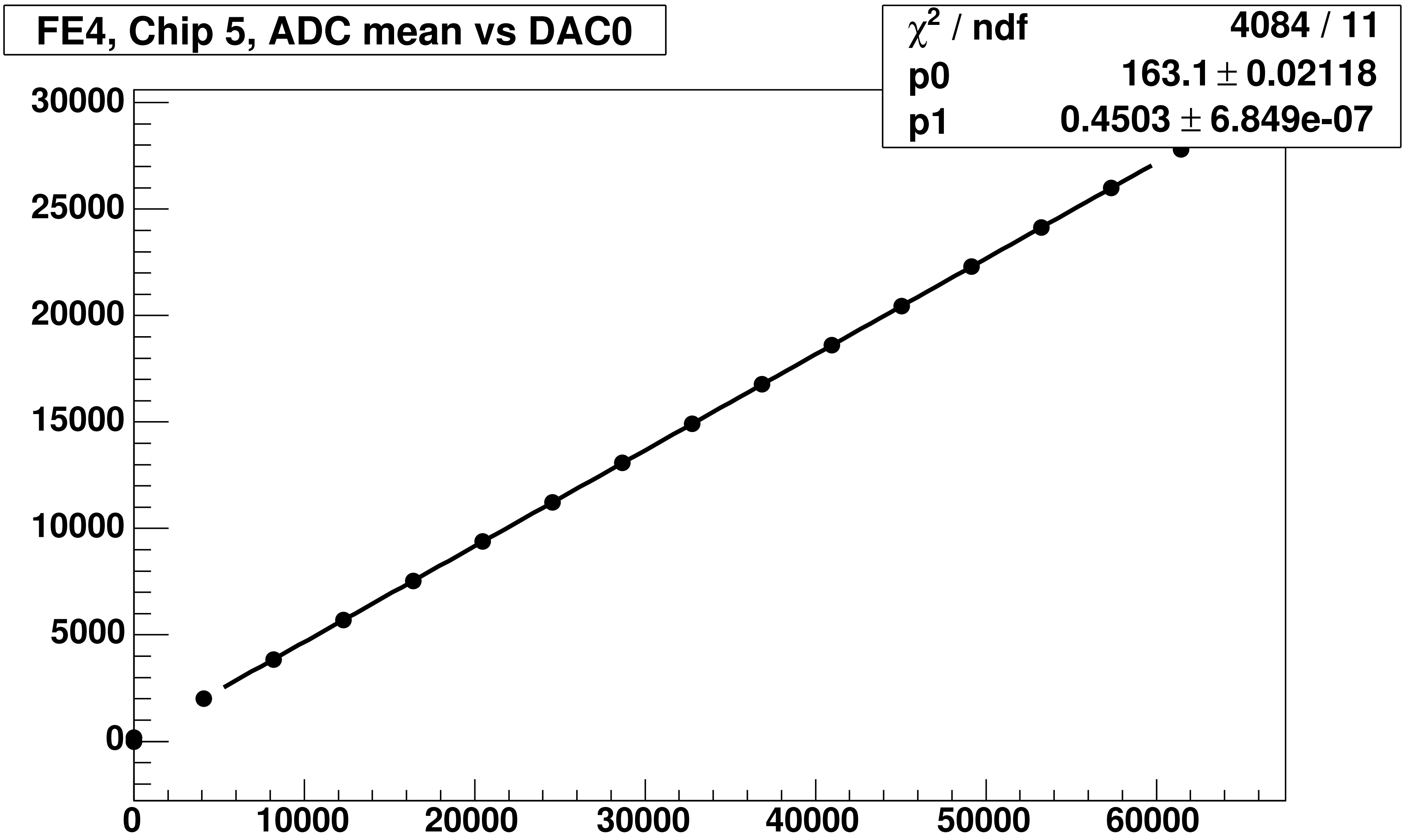

FE4, Chip 4, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

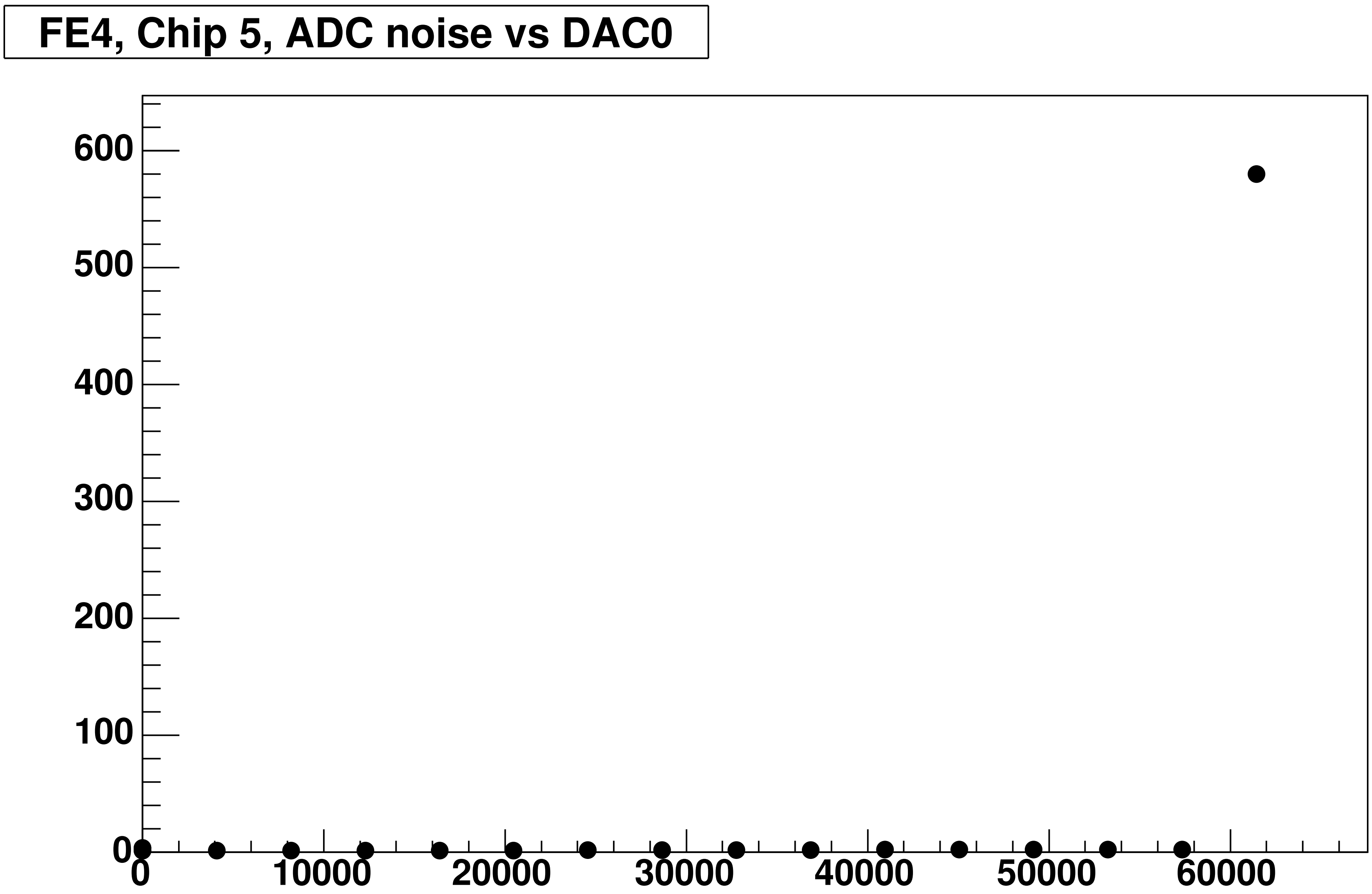

FE4, Chip 4, ADC mean vs DAC1
χ^2 / ndf 13.47 / 11
p0 167.4 ± 0.01985
p1 8.227e-07 ± 5.493e-07
0
20
40
60
80
100
120
140
160
180
0
10000
20000
30000
40000
50000
60000


FE4, Chip 4, ADC noise vs DAC1
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

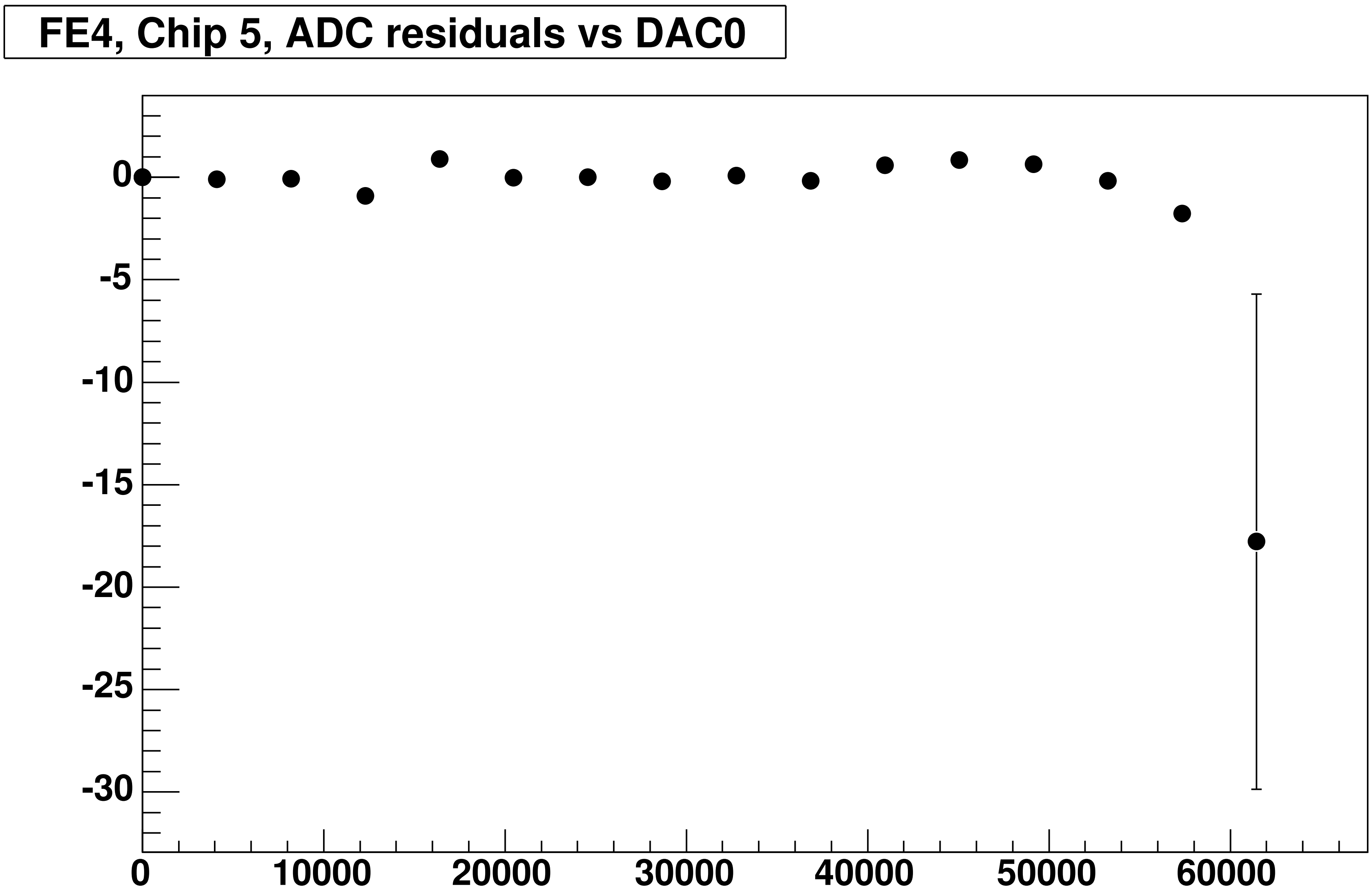


FE4, Chip 4, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

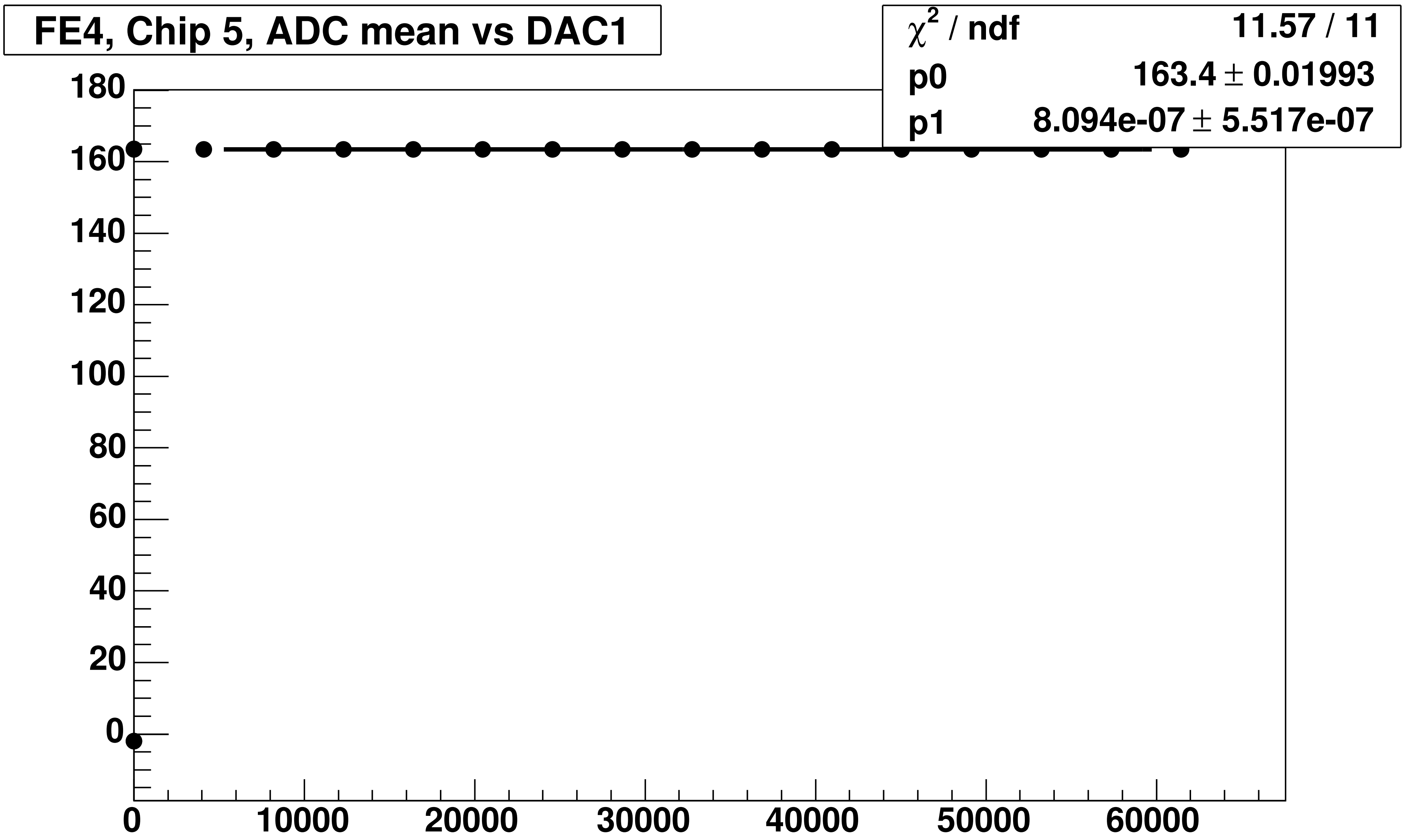

FE4, Chip 5, ADC mean vs DAC0
χ2 / ndf 4084 / 11
p0 163.1 ± 0.02118
p1 0.4503 ± 6.849e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

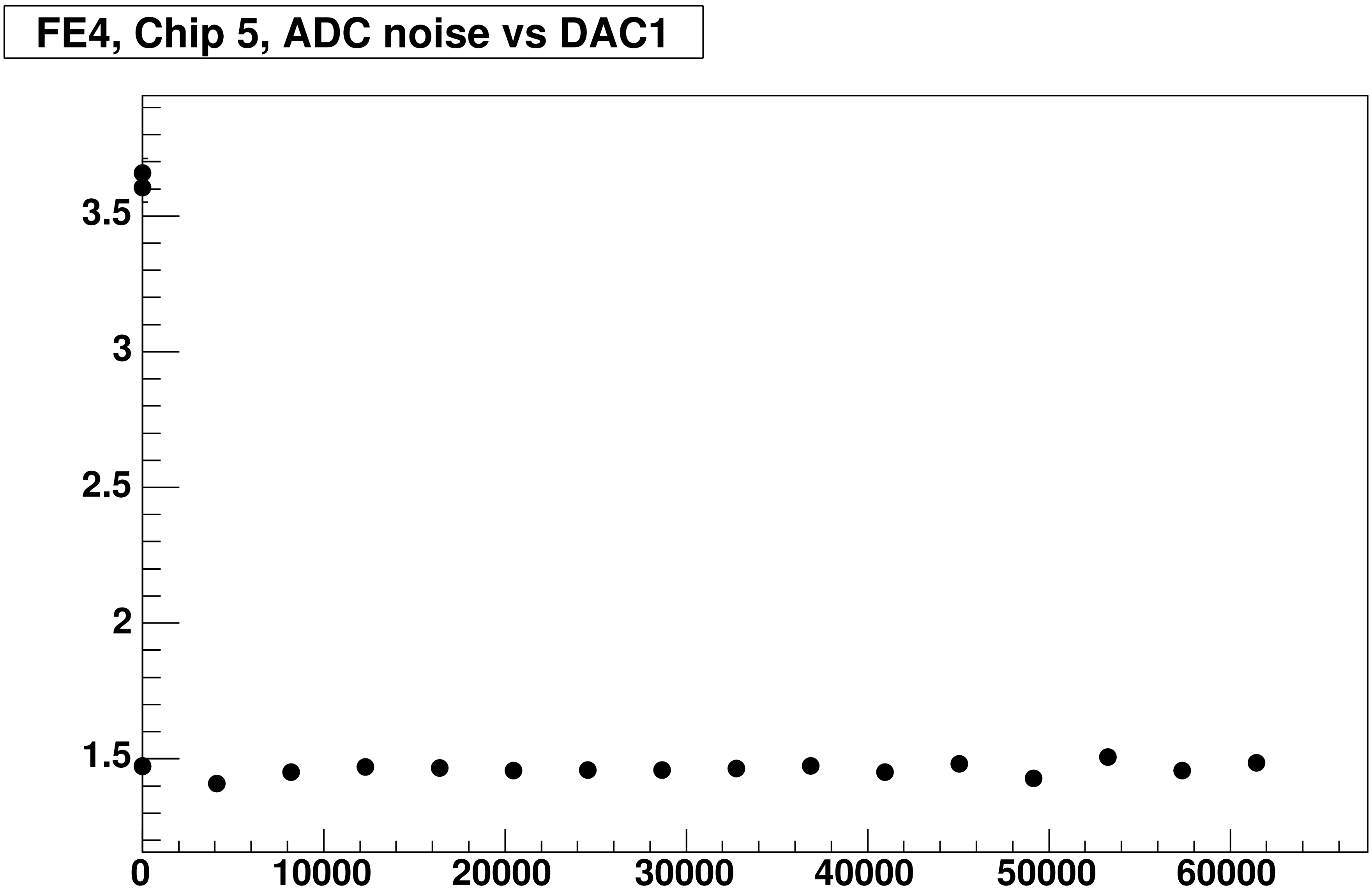


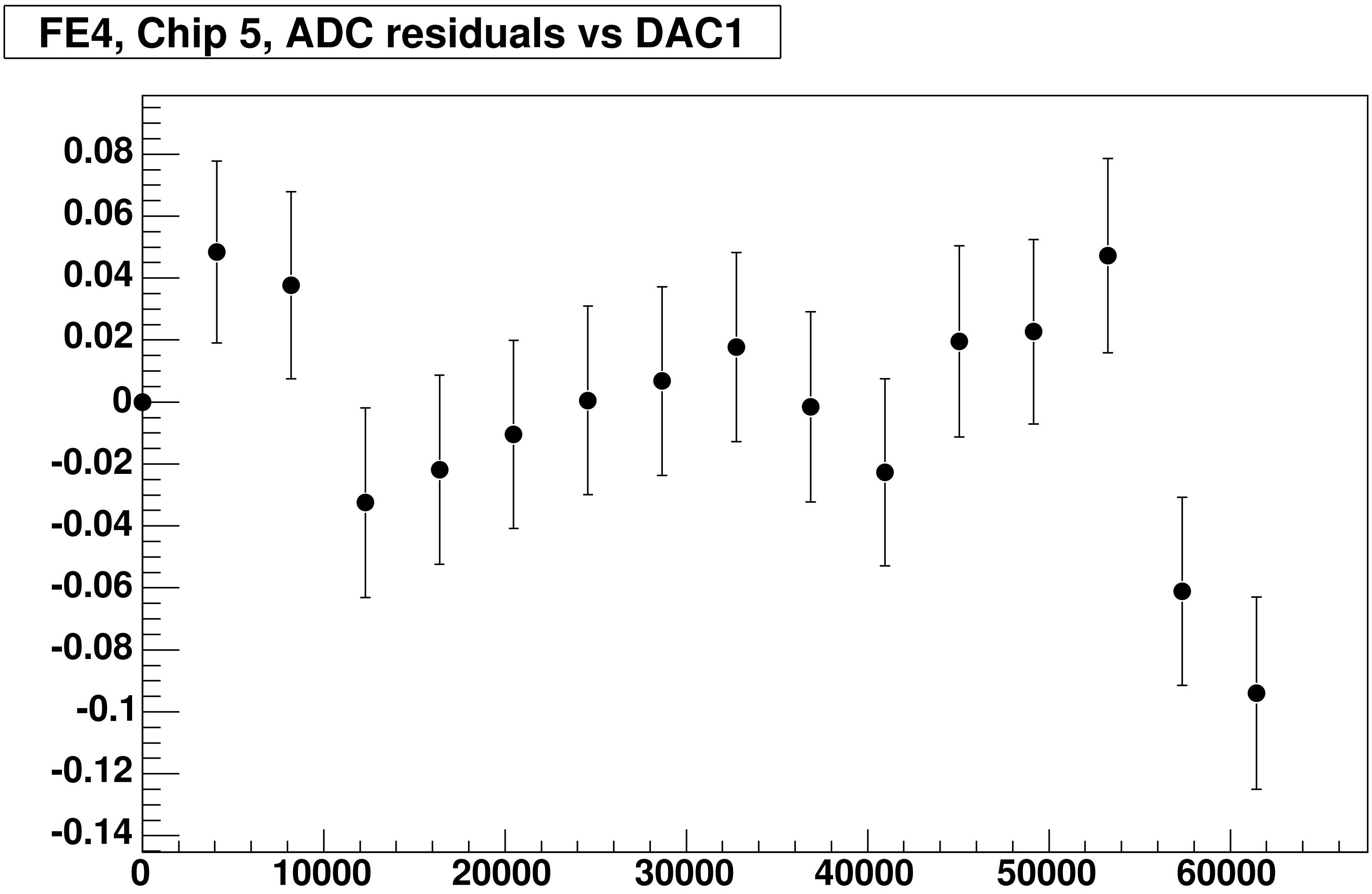
FE4, Chip 5, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000



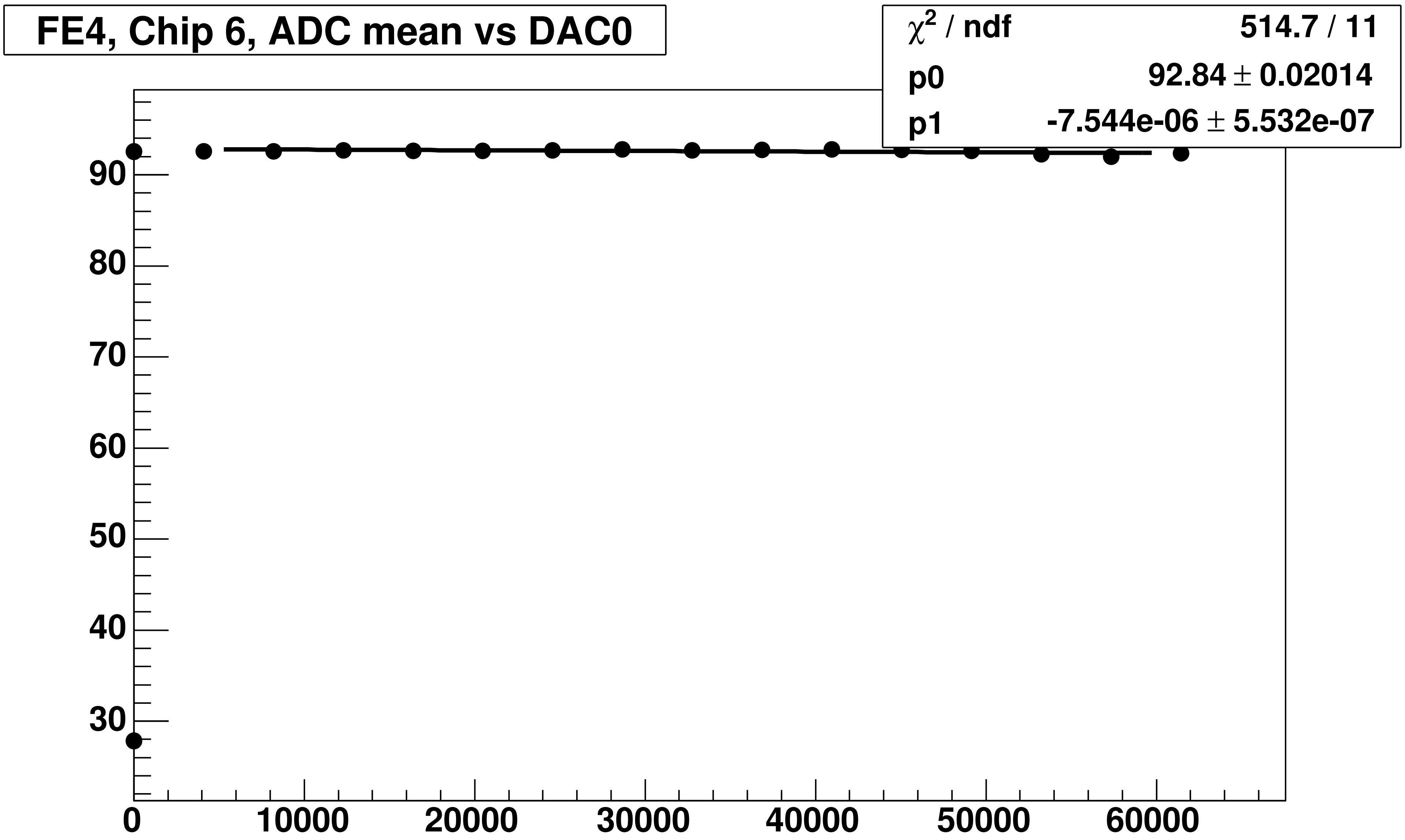
FE4, Chip 5, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000


FE4, Chip 5, ADC mean vs DAC1
χ2 / ndf 11.57 / 11
p0 163.4 ± 0.01993
p1 8.094e-07 ± 5.517e-07
180
160
140
120
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
60000

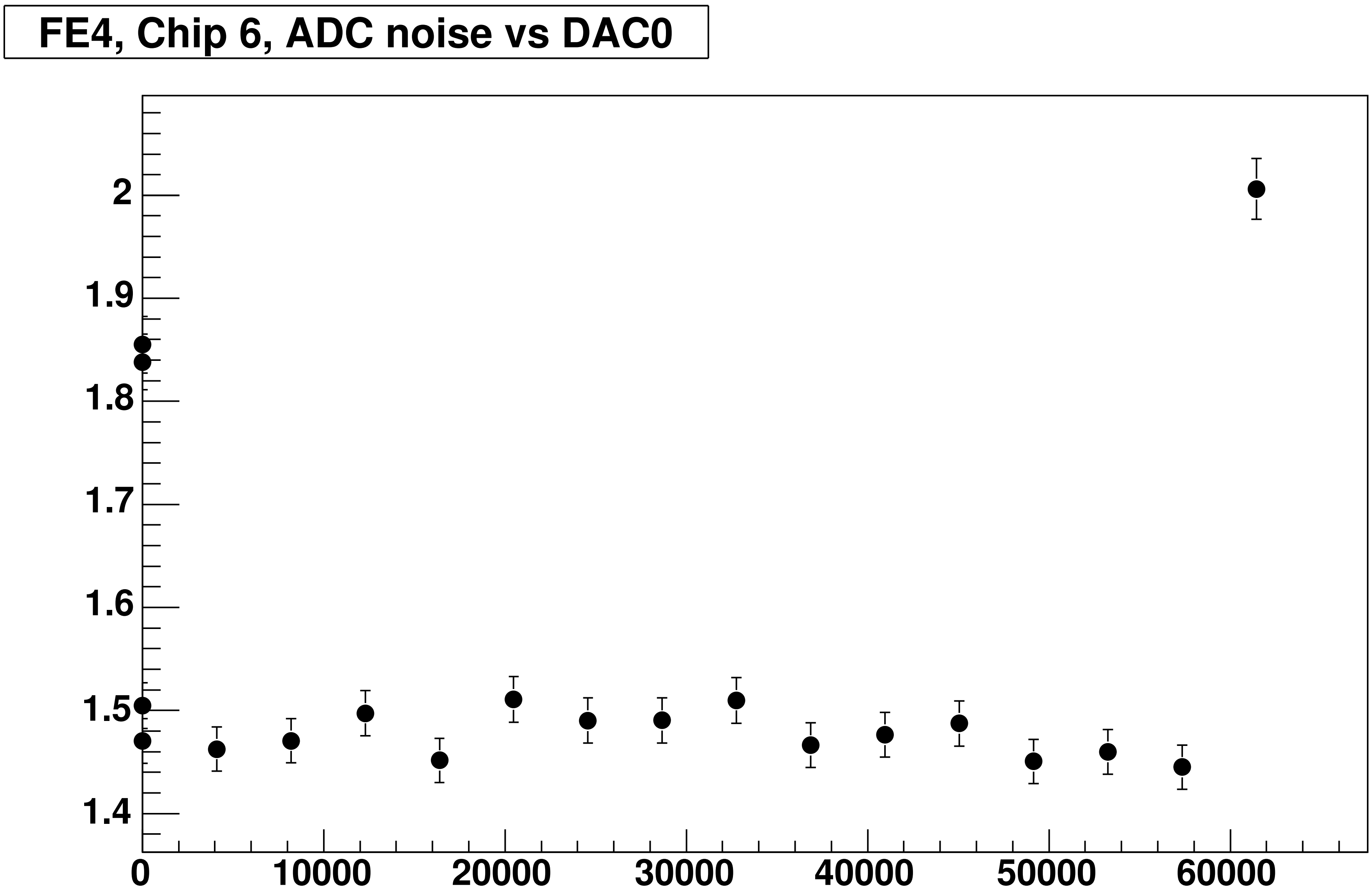

FE4, Chip 5, ADC noise vs DAC1
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000



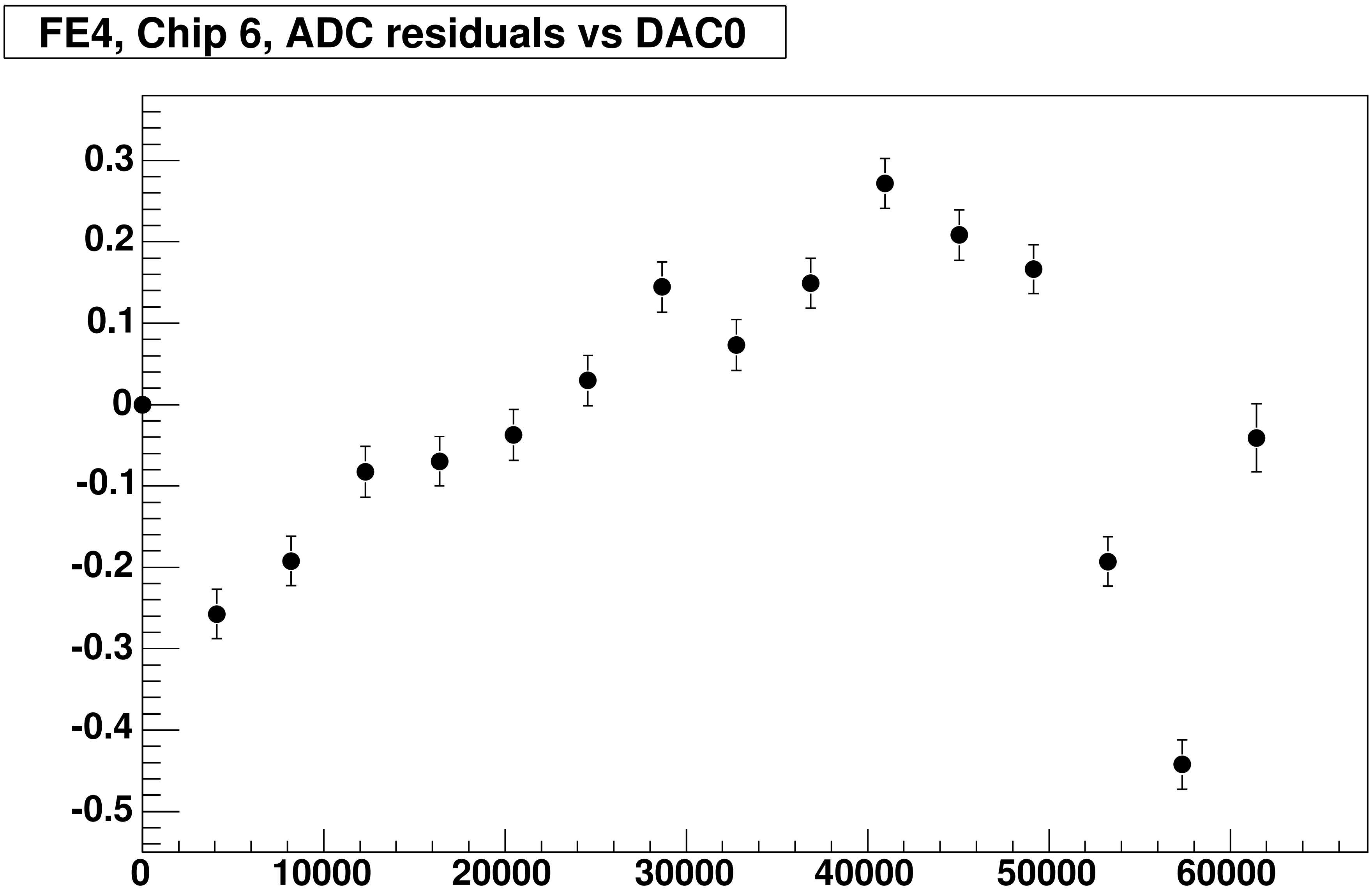
FE4, Chip 5, ADC residuals vs DAC1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
-0.12
-0.14
0
10000
20000
30000
40000
50000
60000

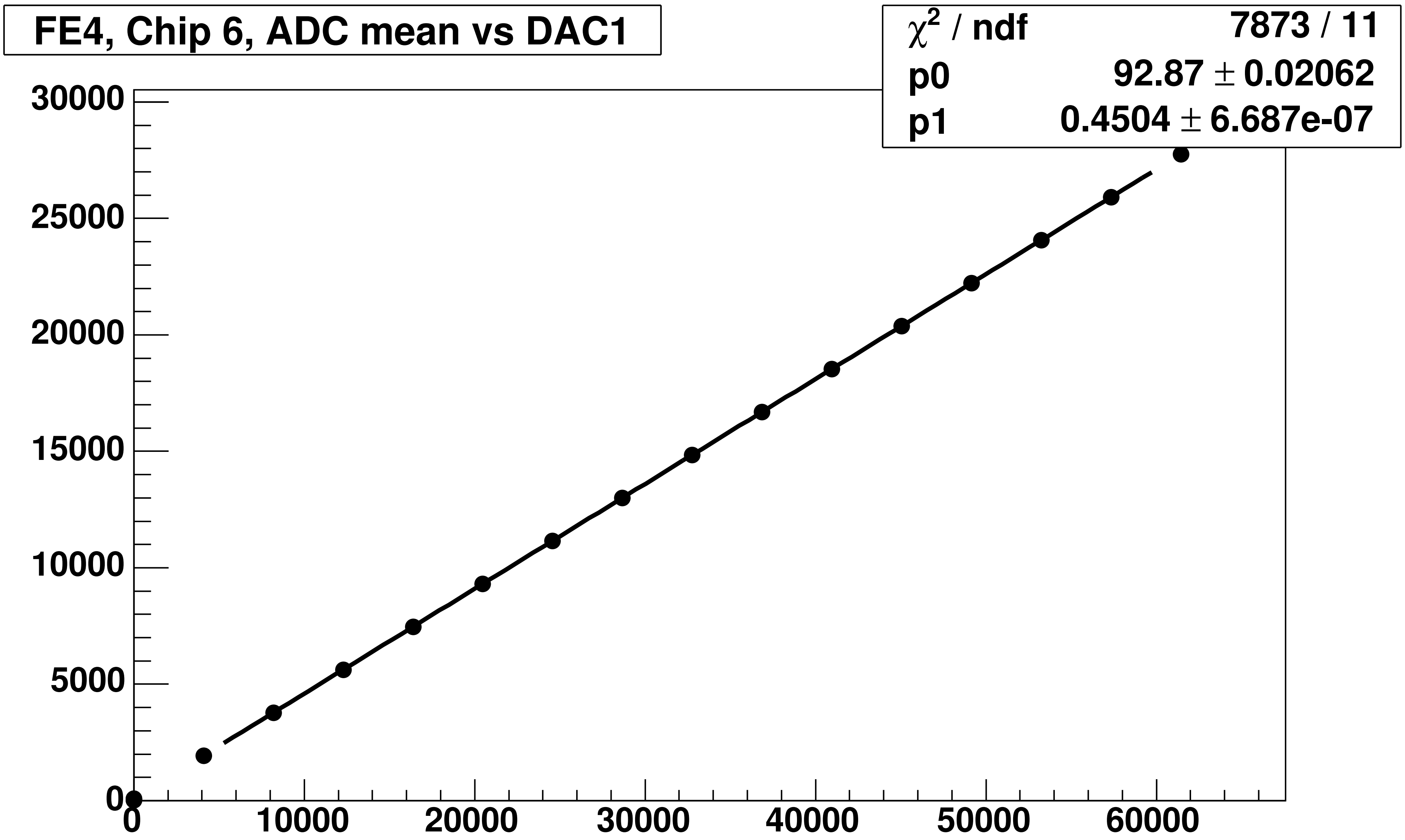


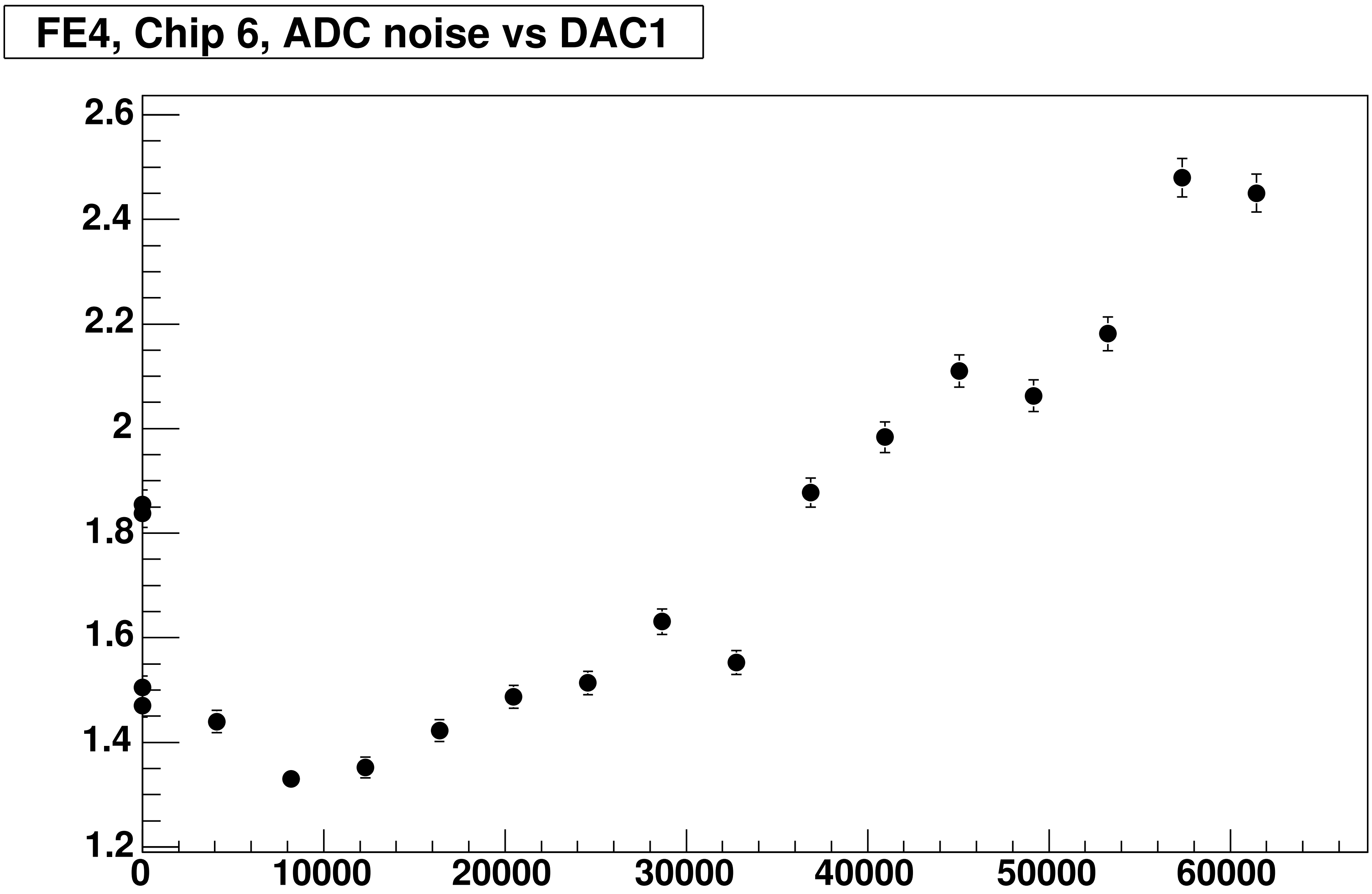
FE4, Chip 6, ADC mean vs DAC0
χ2 / ndf 514.7 / 11
p0 92.84 ± 0.02014
p1 -7.544e-06 ± 5.532e-07
90
80
70
60
50
40
30
0
10000
20000
30000
40000
50000
60000

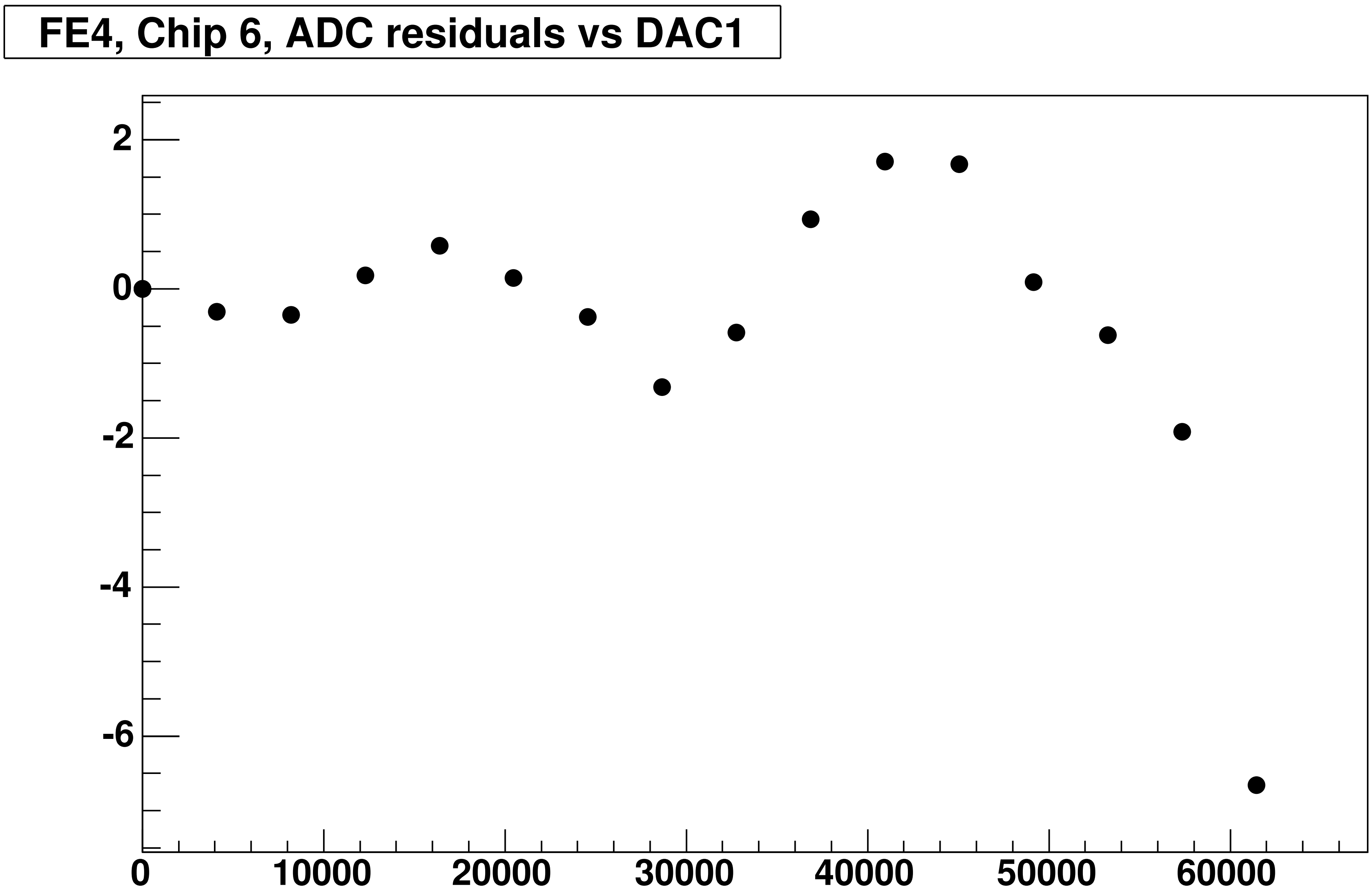


FE4, Chip 6, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

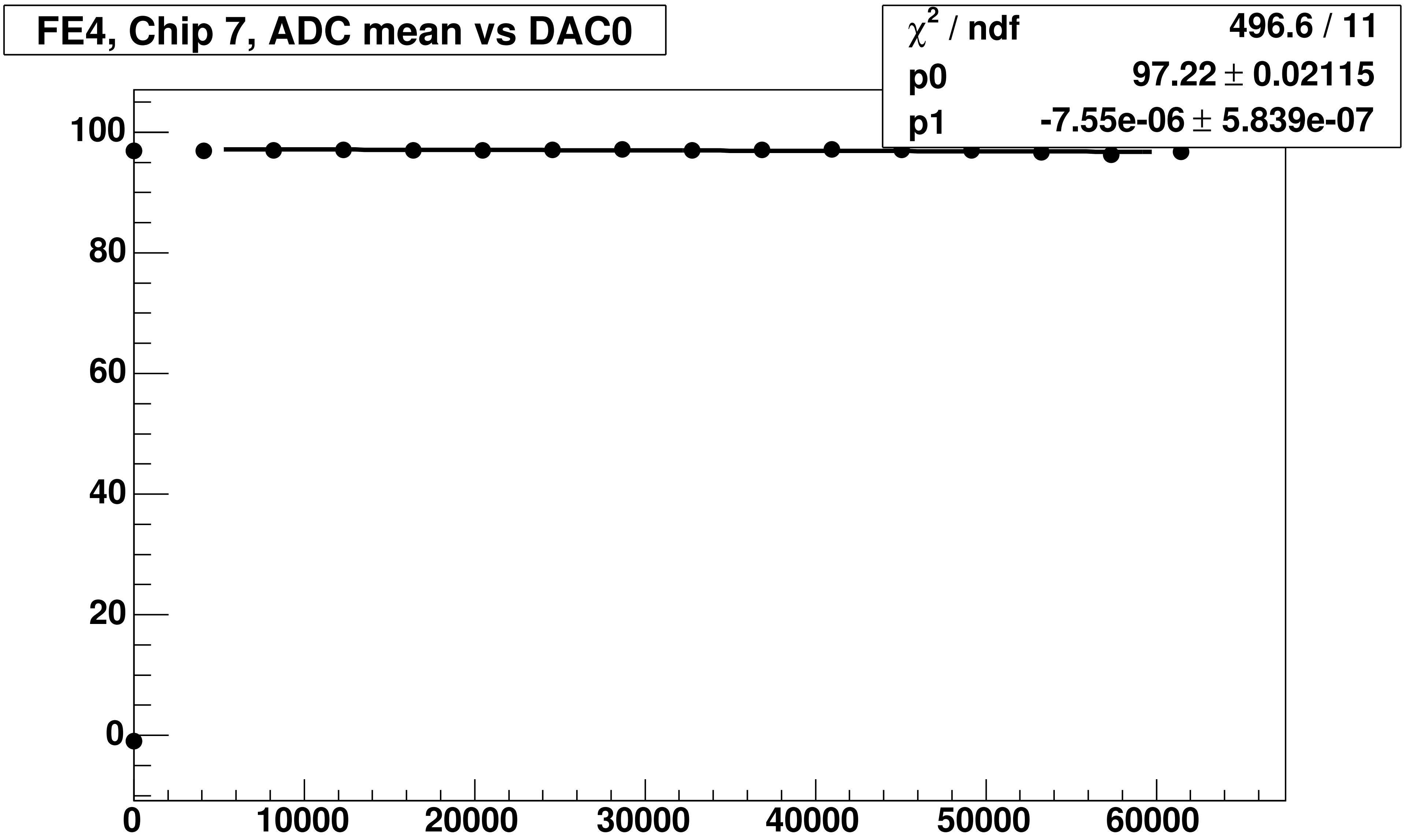

FE4, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

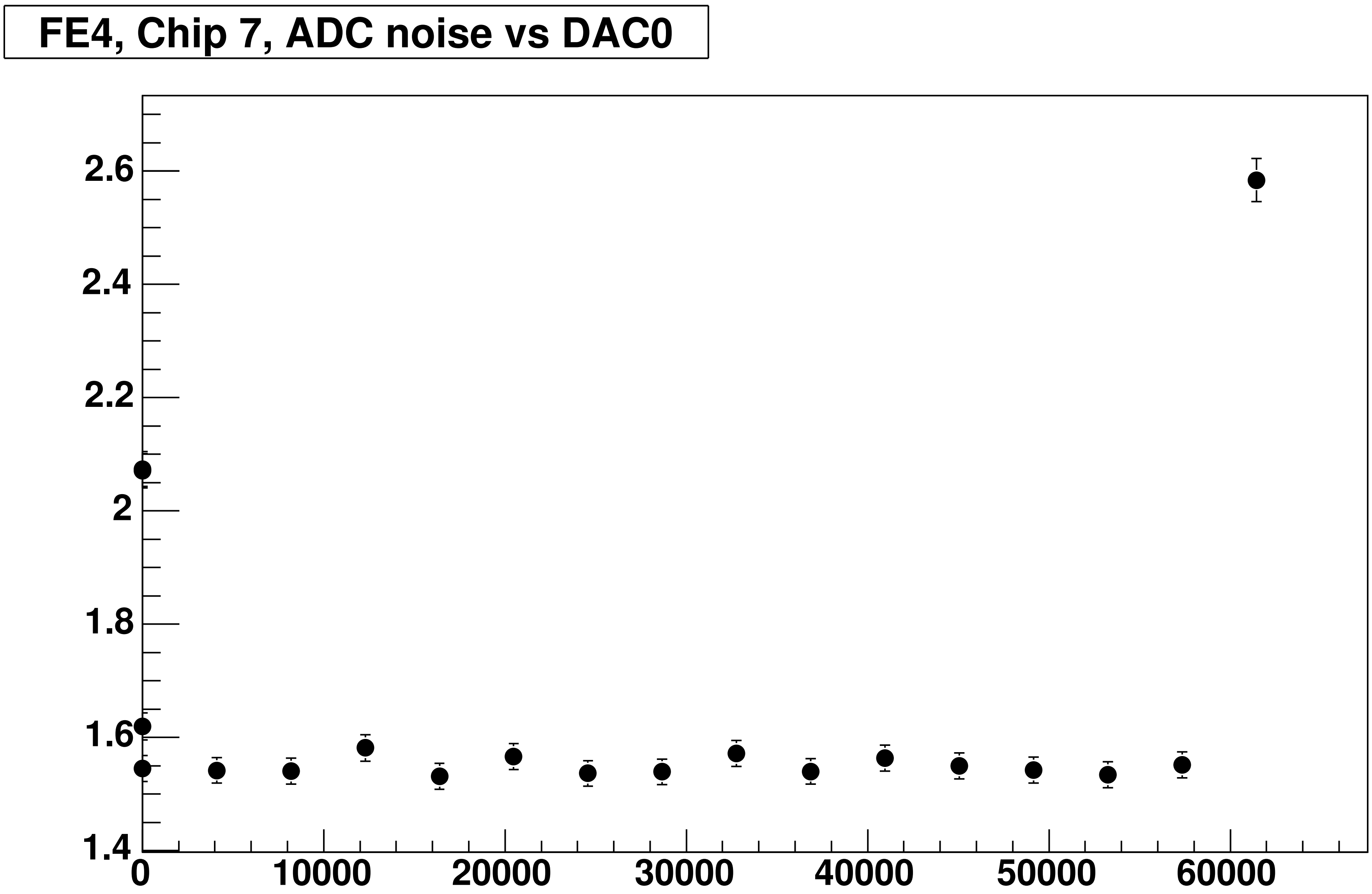

FE4, Chip 6, ADC mean vs DAC1
χ^2 / ndf 7873 / 11
p0 92.87 ± 0.02062
p1 0.4504 ± 6.687e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

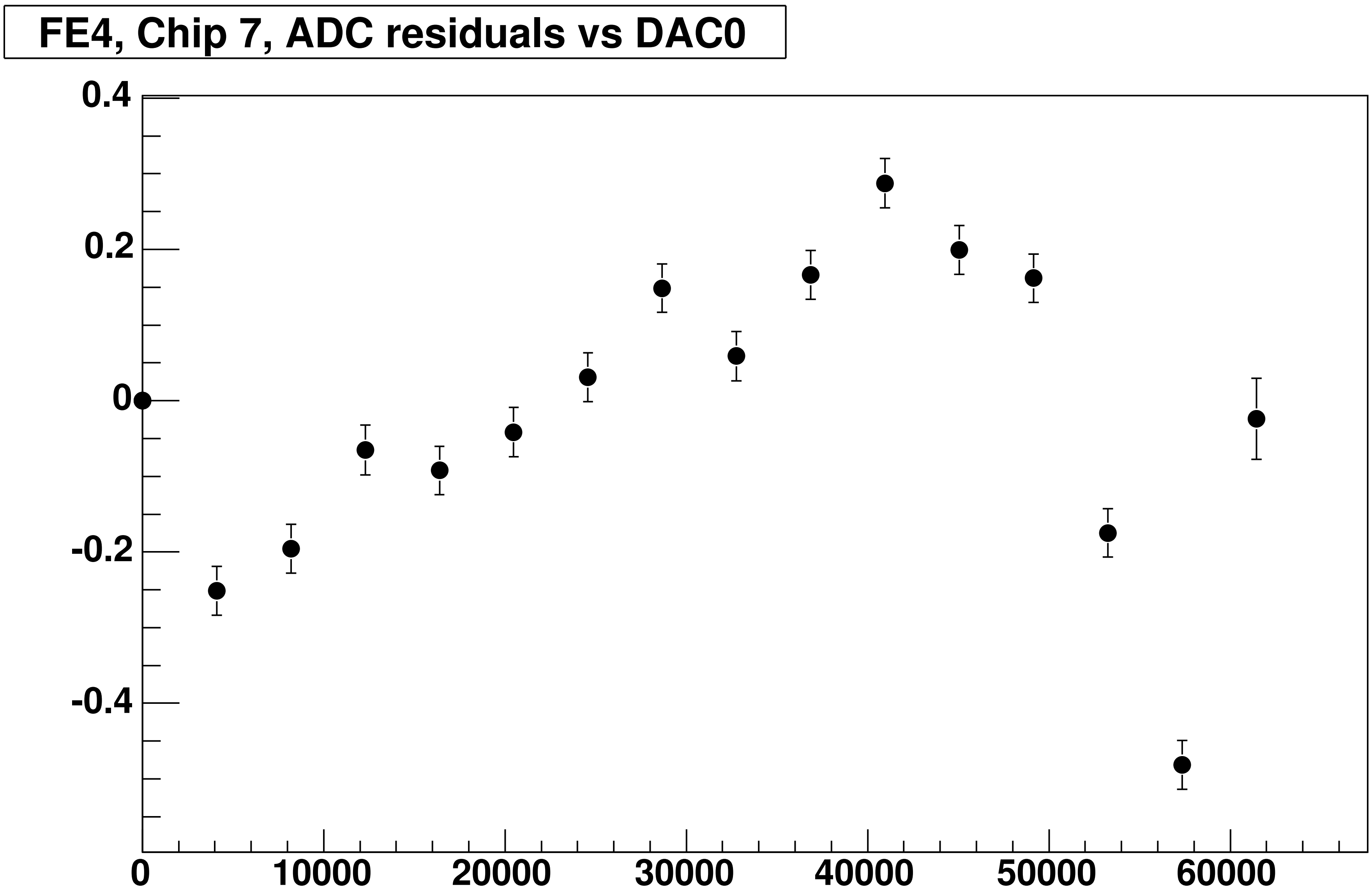

FE4, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

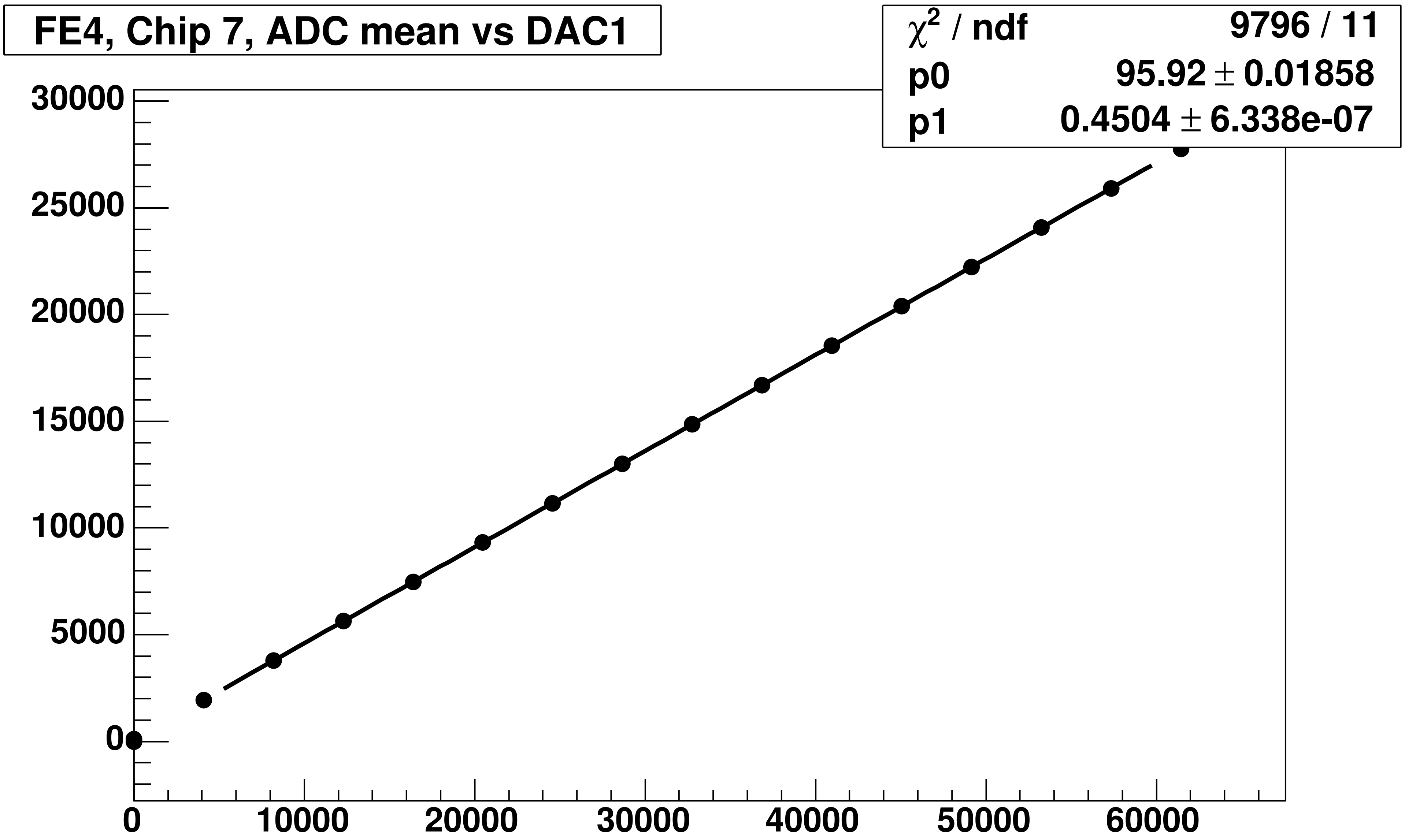


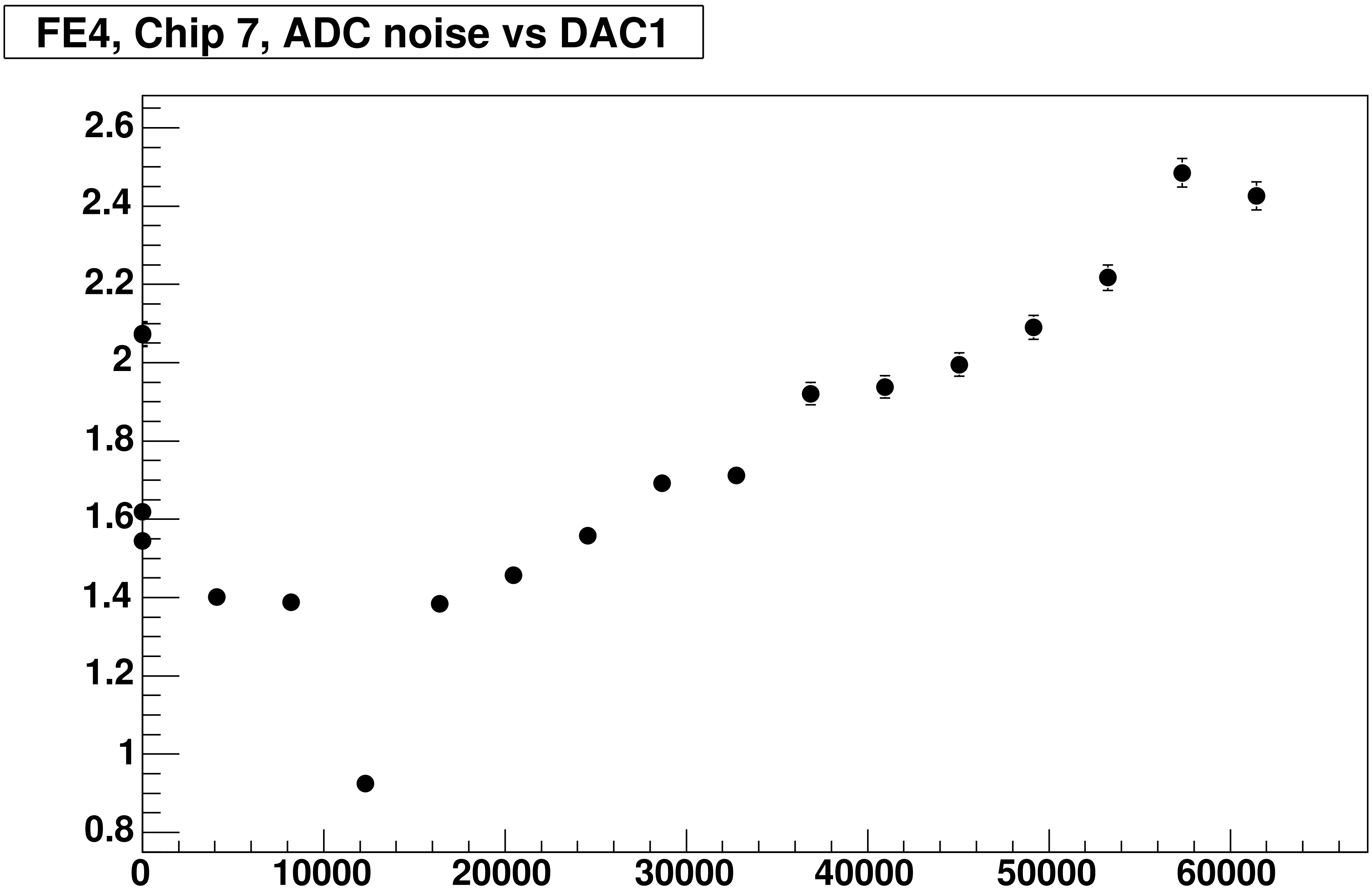
FE4, Chip 6, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000


FE4, Chip 7, ADC mean vs DAC0
χ^2 / ndf 496.6 / 11
p0 97.22 ± 0.02115
p1 -7.55e-06 ± 5.839e-07
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
60000

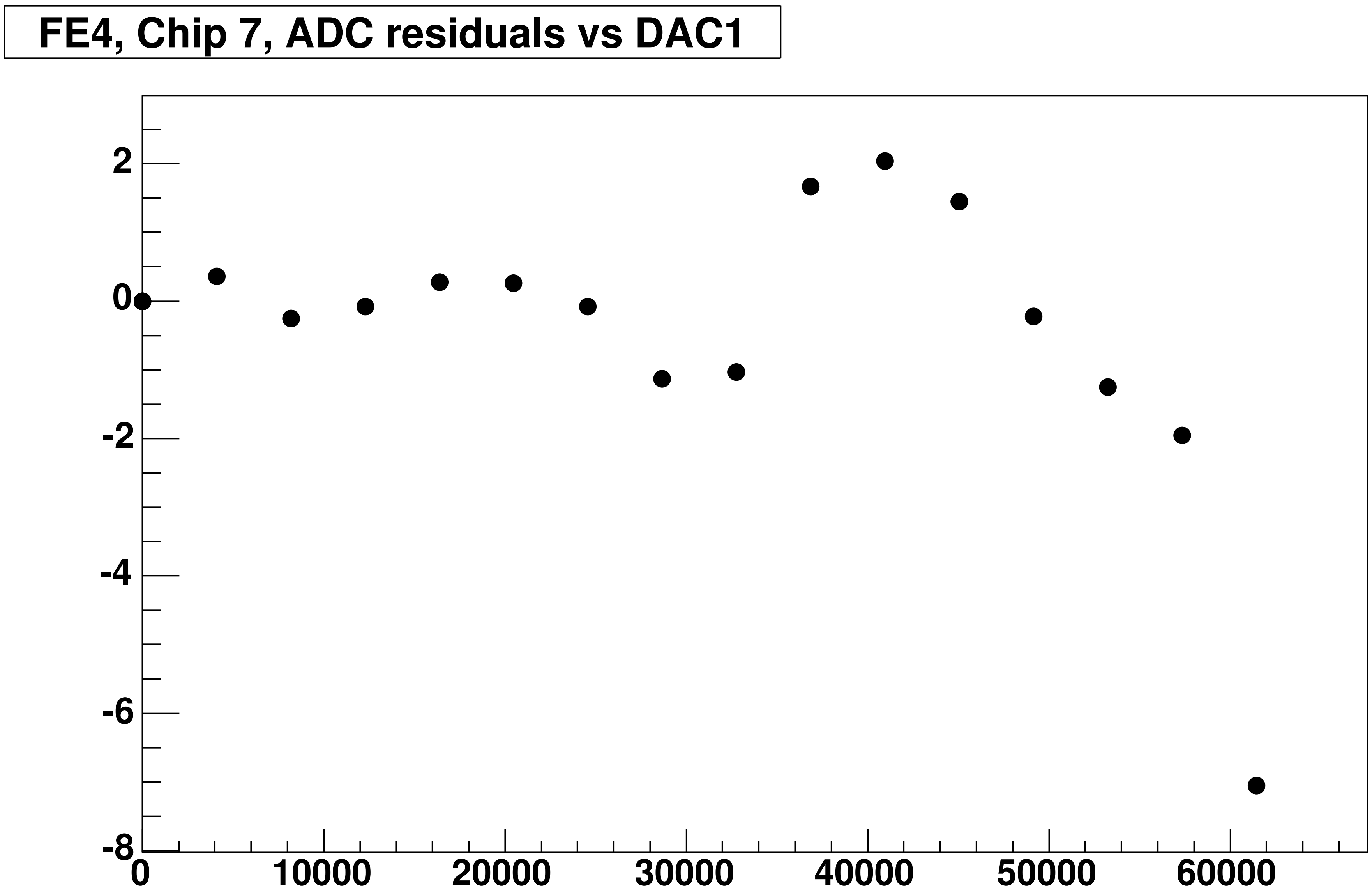

FE4, Chip 7, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

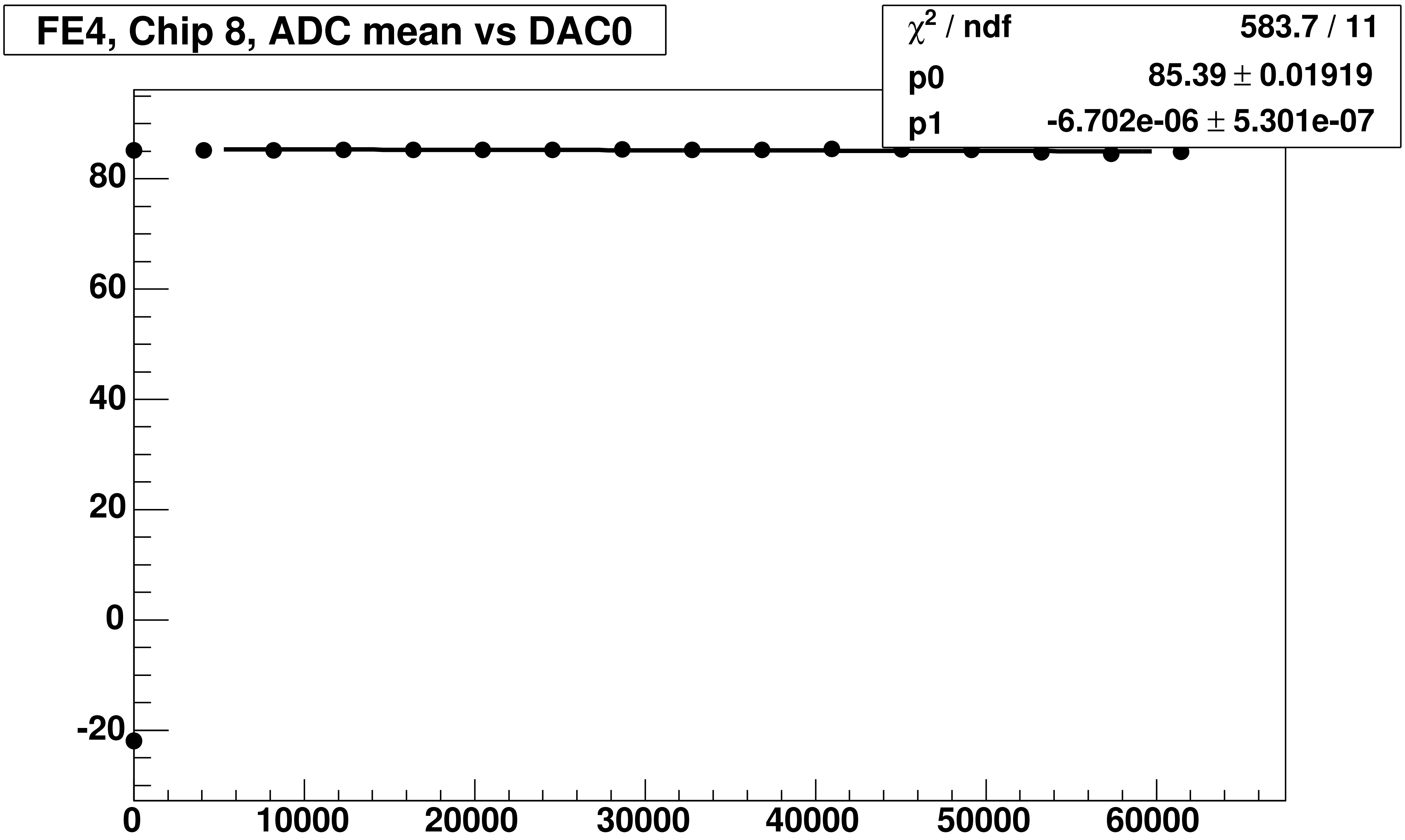

FE4, Chip 7, ADC residuals vs DAC0
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000


FE4, Chip 7, ADC mean vs DAC1
χ² / ndf 9796 / 11
p0 95.92 ± 0.01858
p1 0.4504 ± 6.338e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

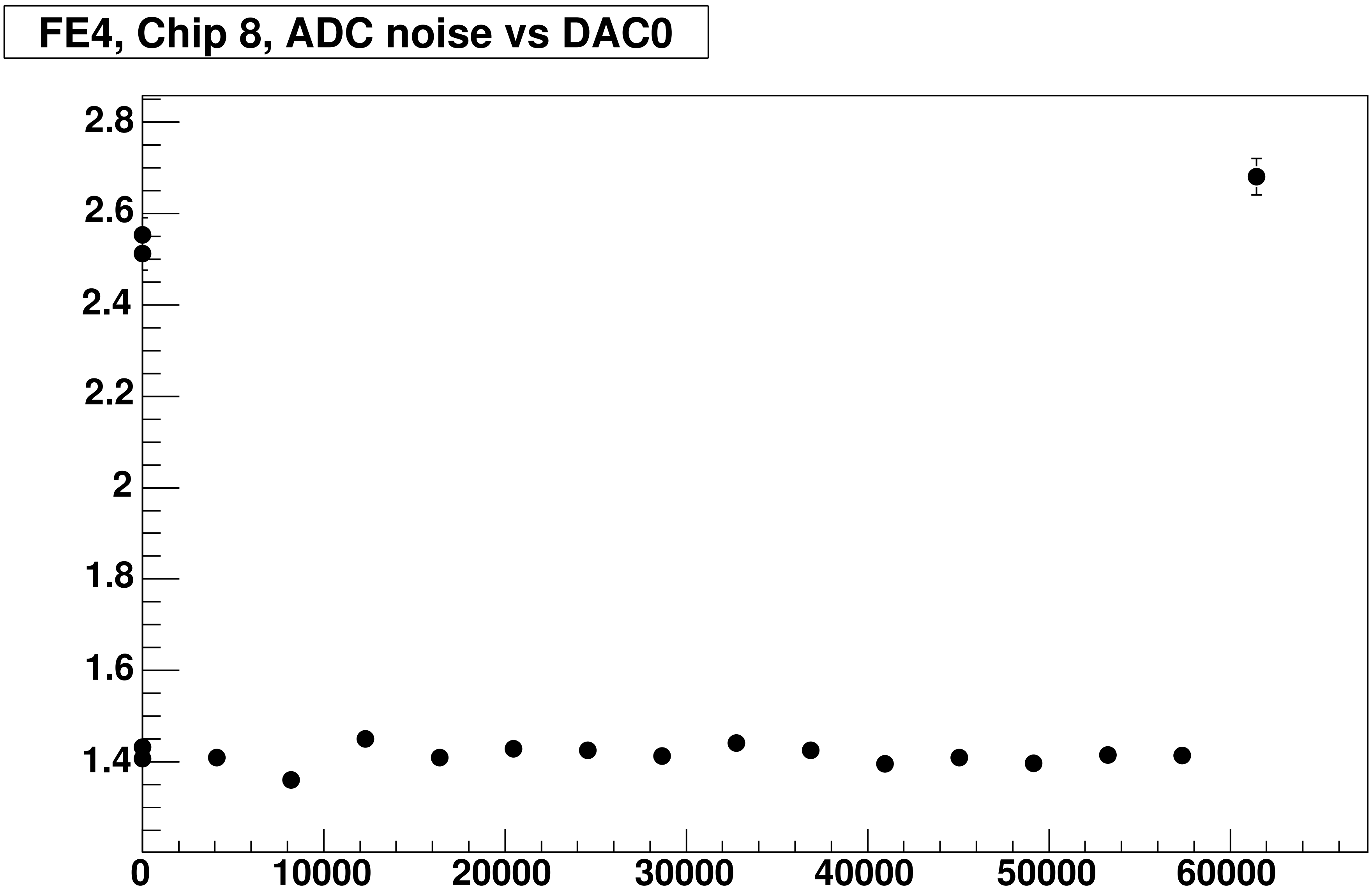


FE4, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0
10000
20000
30000
40000
50000
60000

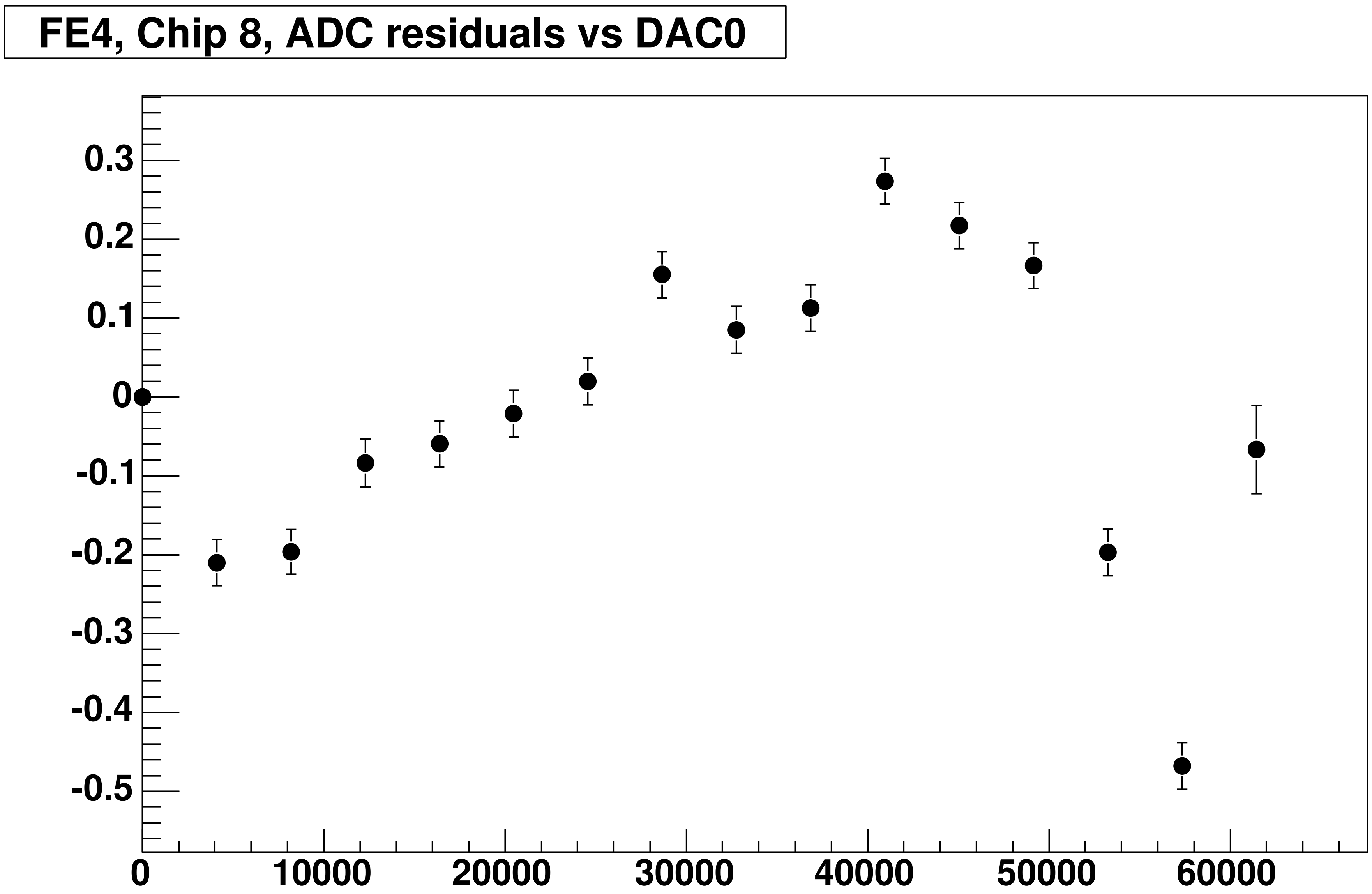

FE4, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

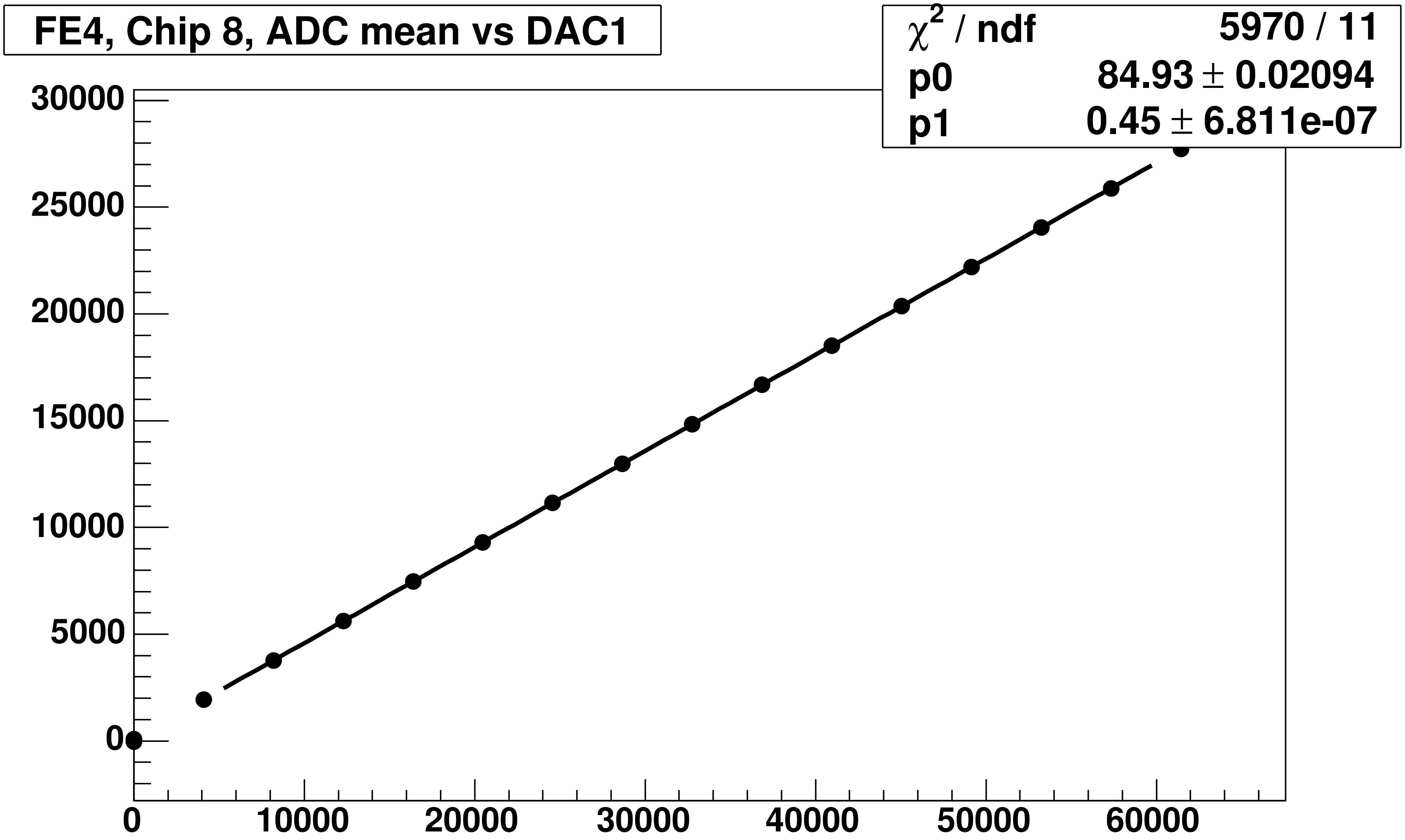


FE4, Chip 8, ADC mean vs DAC0
χ^2 / ndf 583.7 / 11
p0 85.39 ± 0.01919
p1 -6.702e-06 ± 5.301e-07
80
60
40
20
0
-20
0
10000
20000
30000
40000
50000
60000

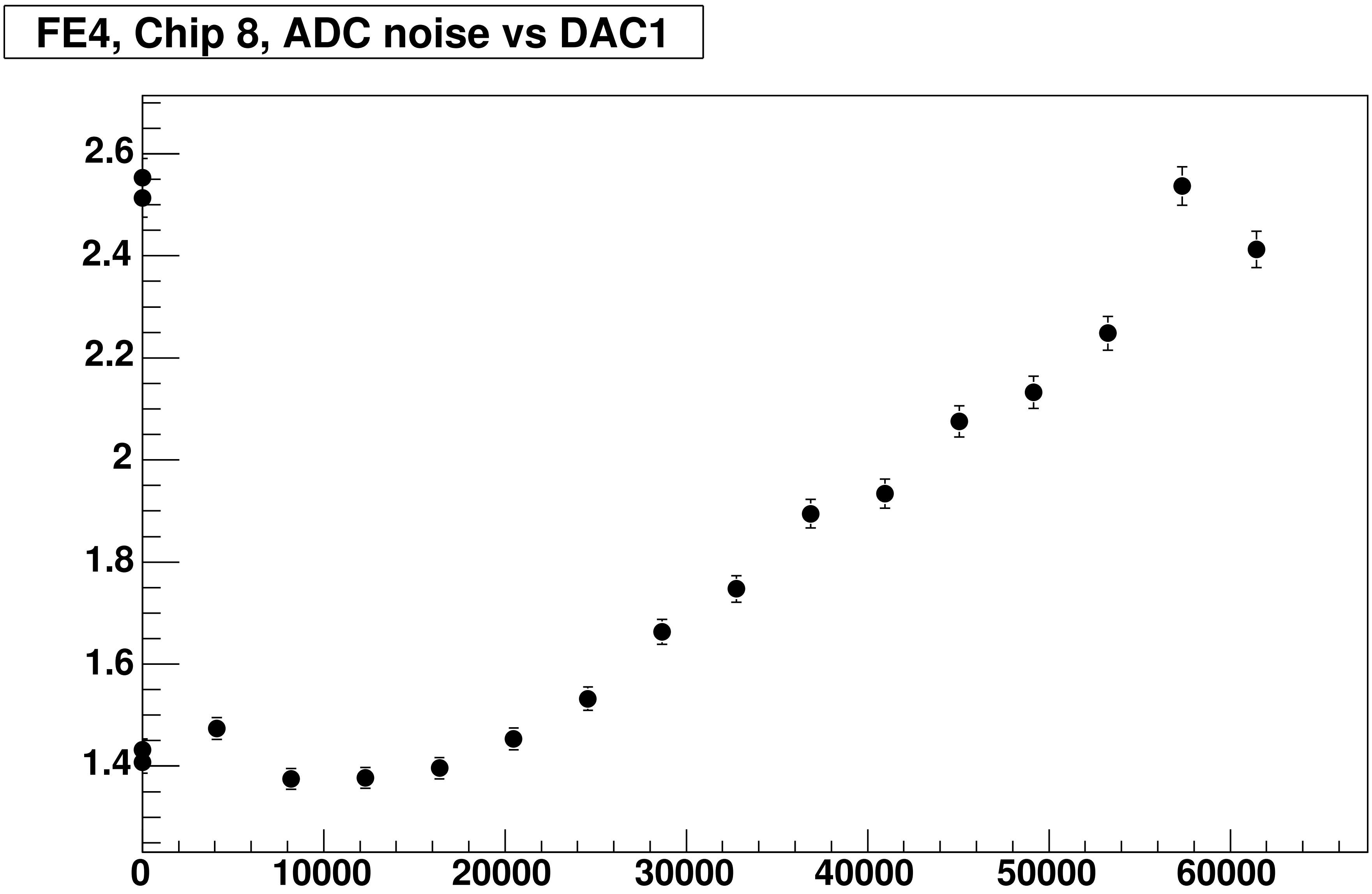


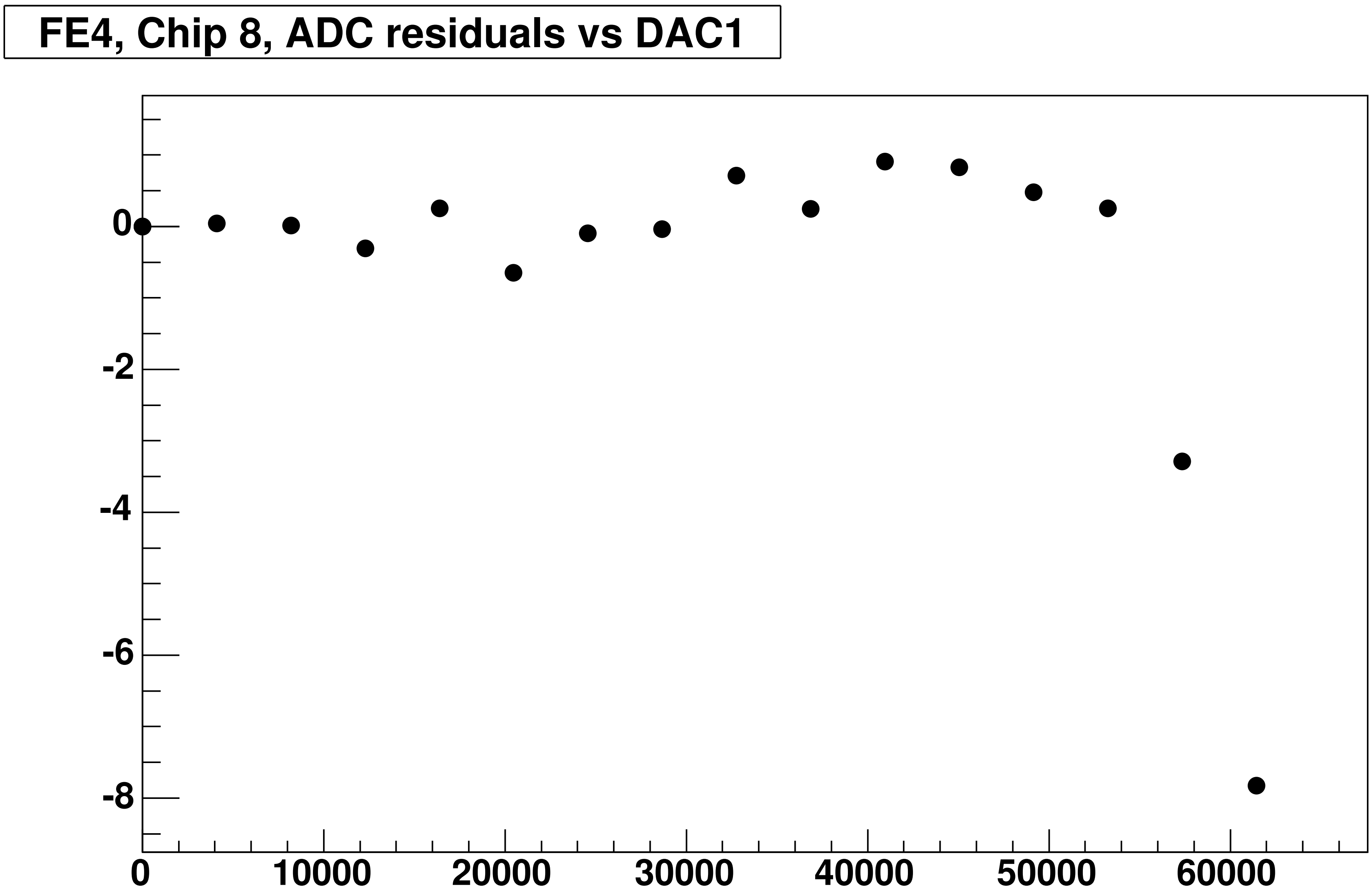
FE4, Chip 8, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

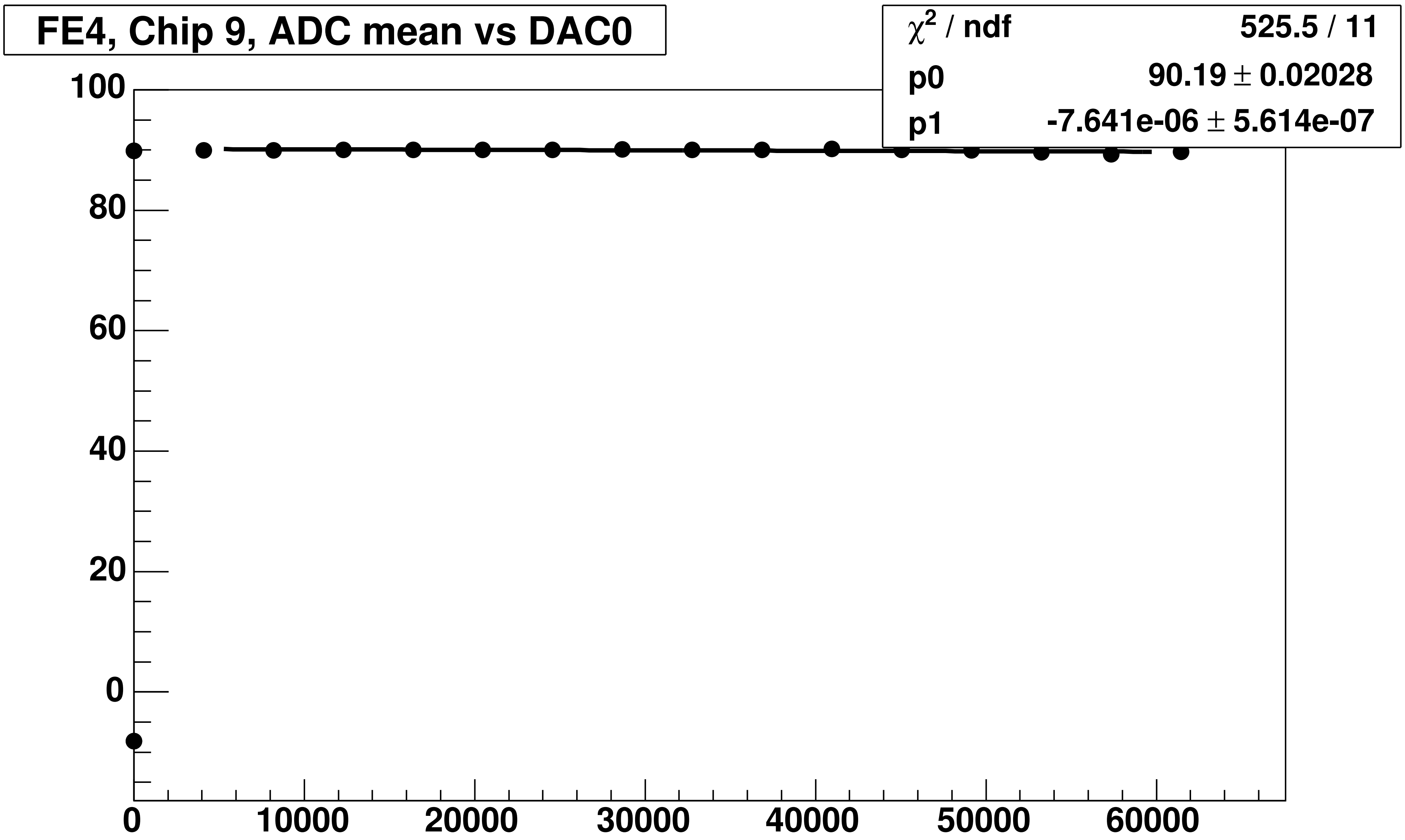

FE4, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

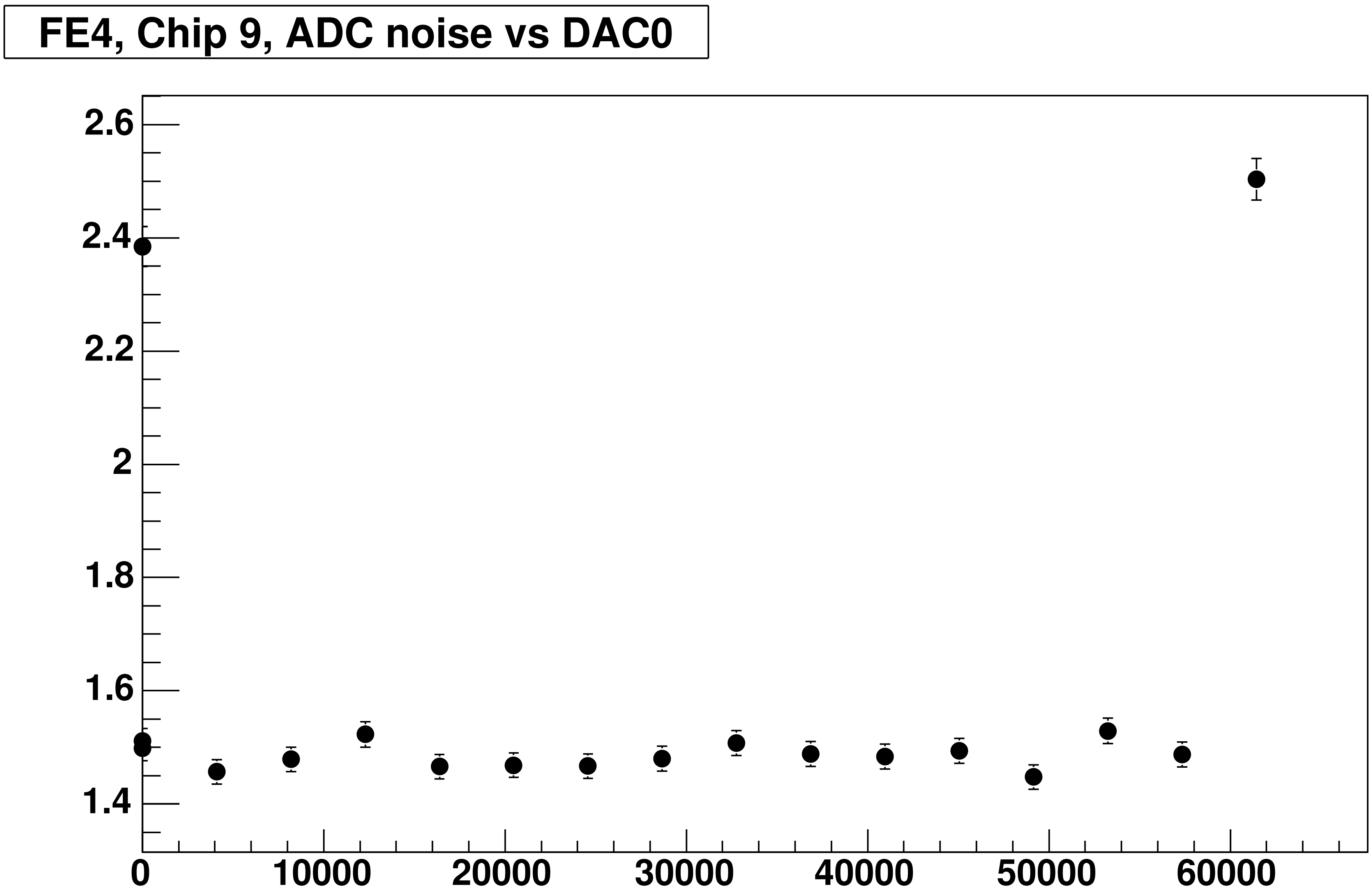


FE4, Chip 8, ADC mean vs DAC1
χ^2 / ndf 5970 / 11
p0 84.93 ± 0.02094
p1 0.45 ± 6.811e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

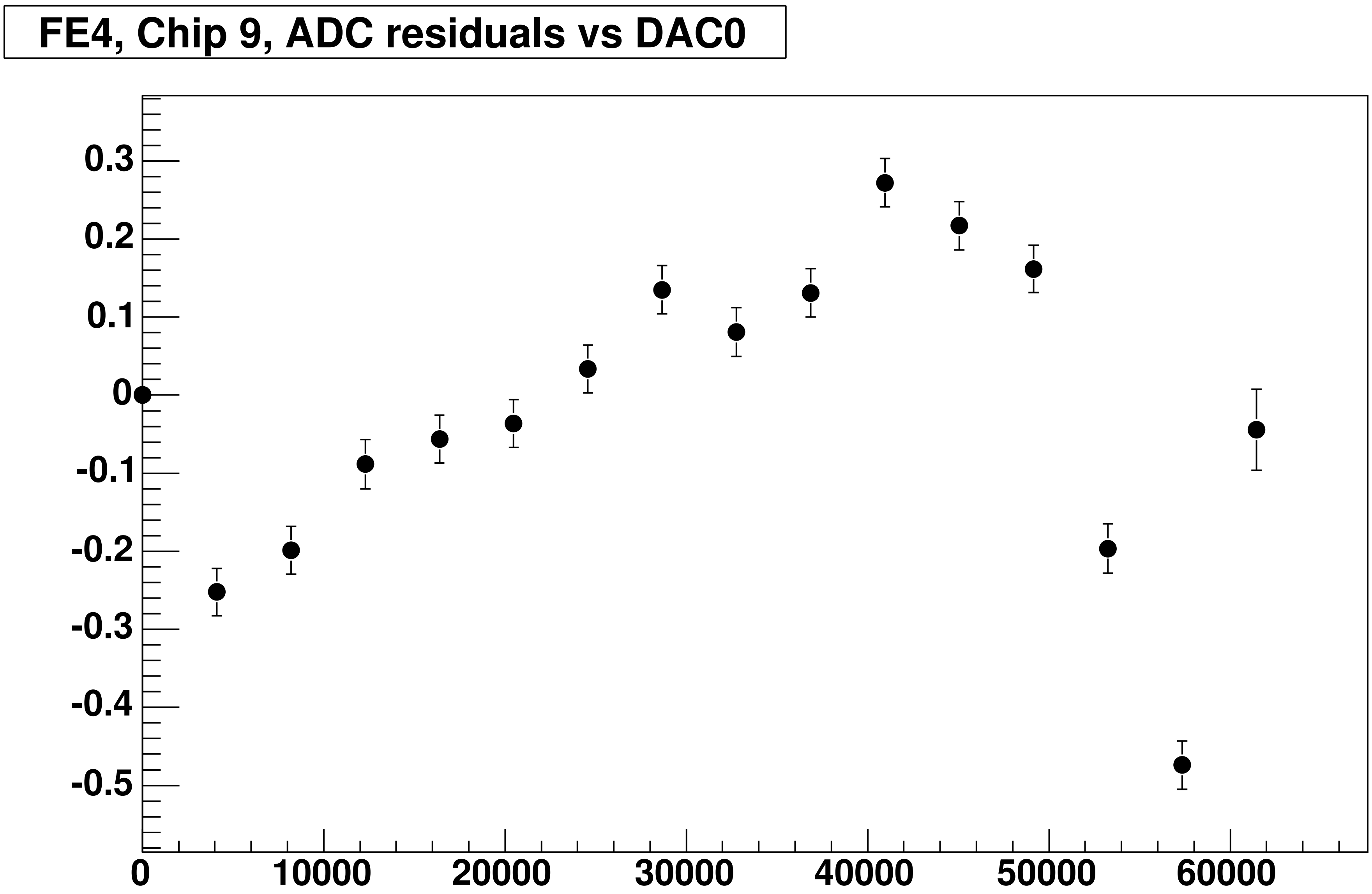

FE4, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

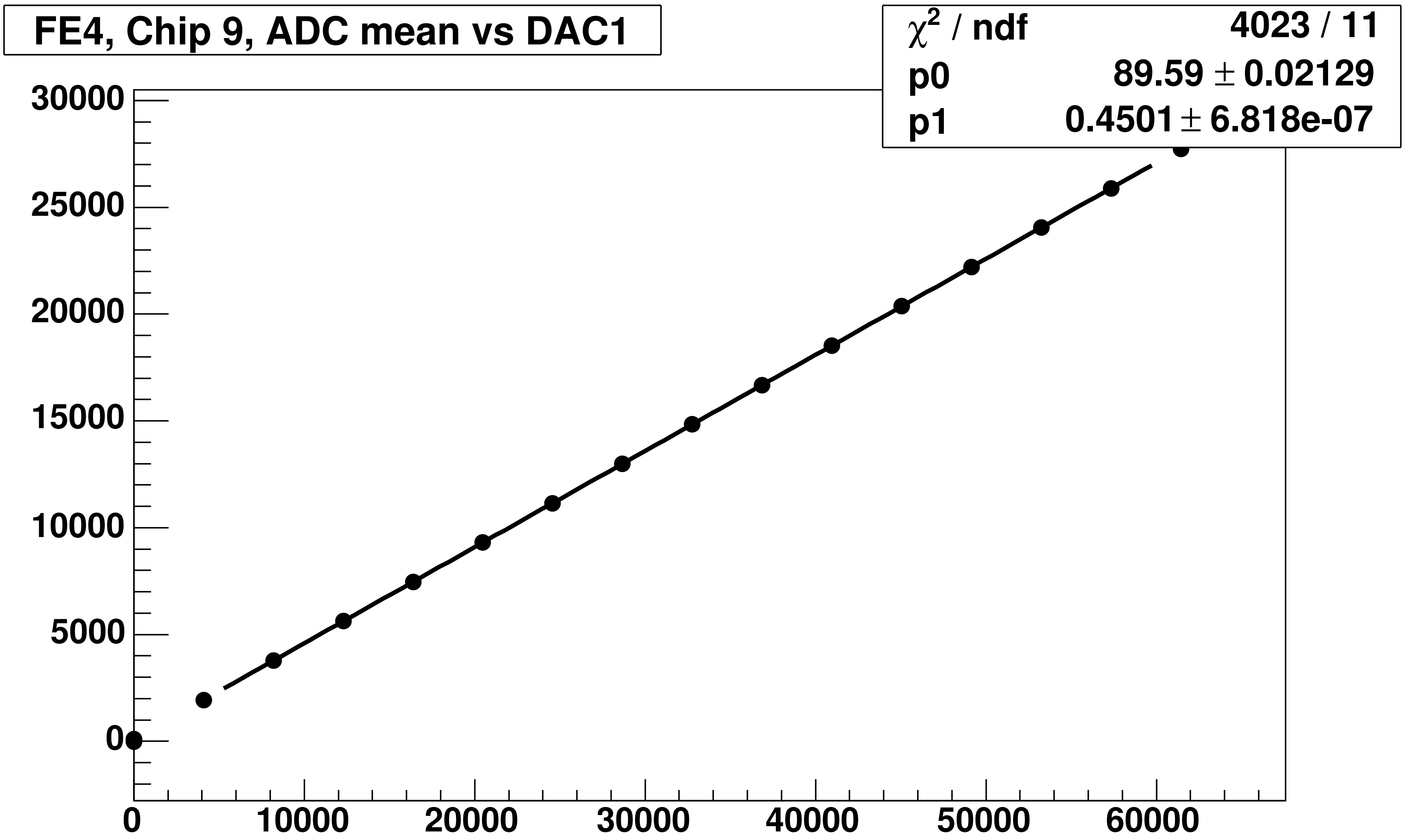

FE4, Chip 8, ADC residuals vs DAC1
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000


FE4, Chip 9, ADC mean vs DAC0
χ2 / ndf 525.5 / 11
p0 90.19 ± 0.02028
p1 -7.641e-06 ± 5.614e-07
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
60000

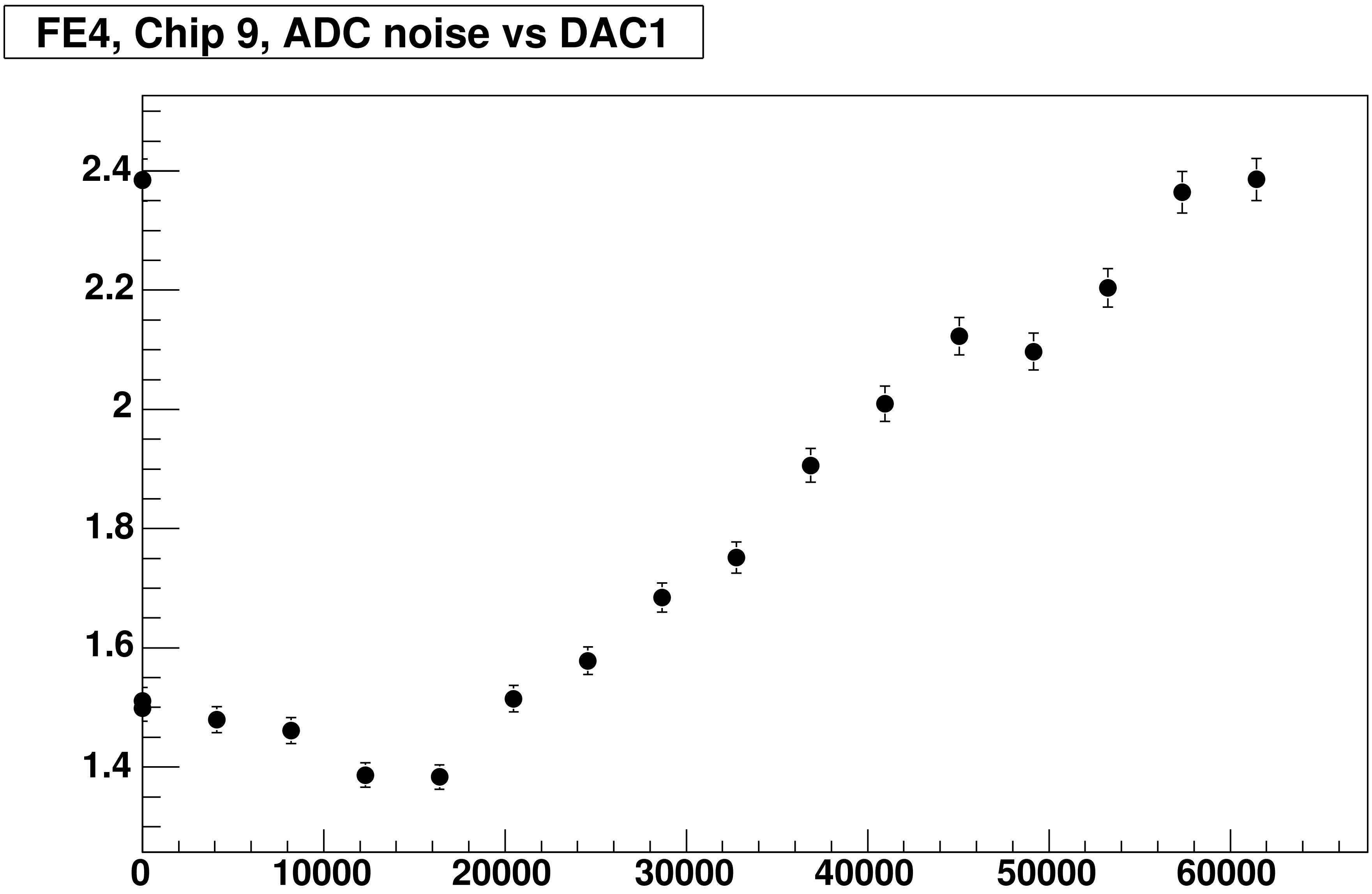


FE4, Chip 9, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

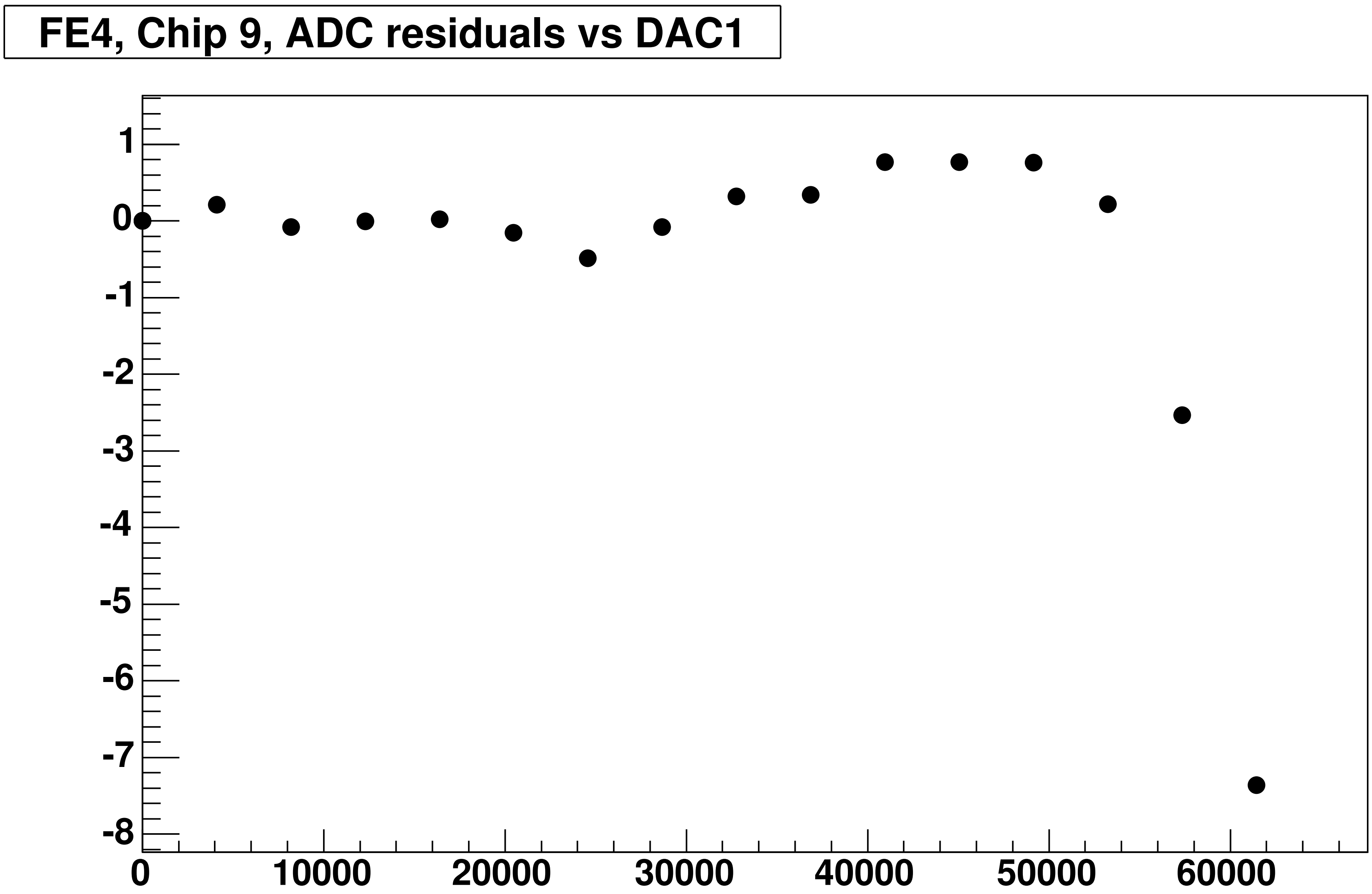

FE4, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

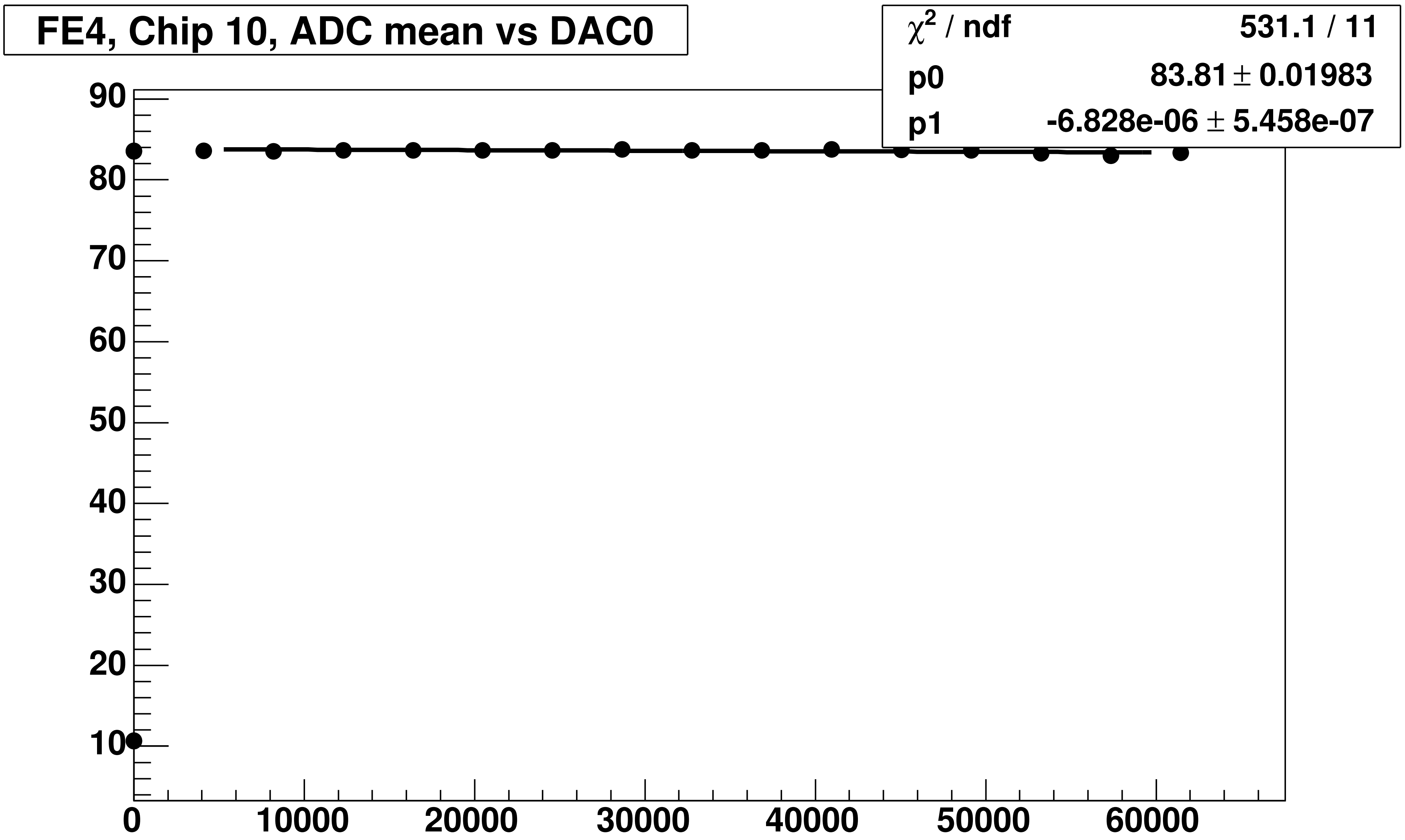


FE4, Chip 9, ADC mean vs DAC1
χ^2 / ndf 4023 / 11
p0 89.59 ± 0.02129
p1 0.4501 ± 6.818e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

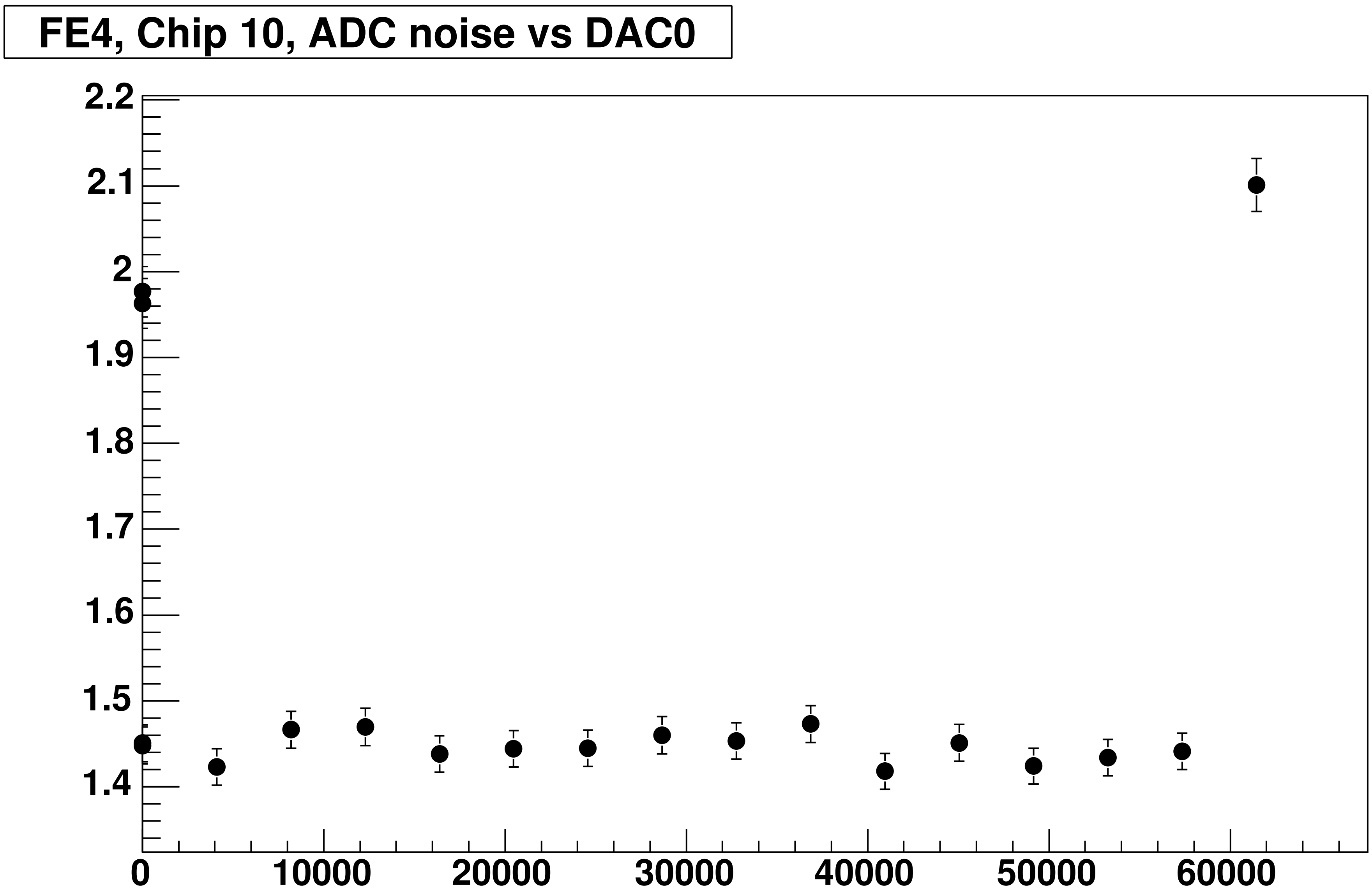


FE4, Chip 9, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

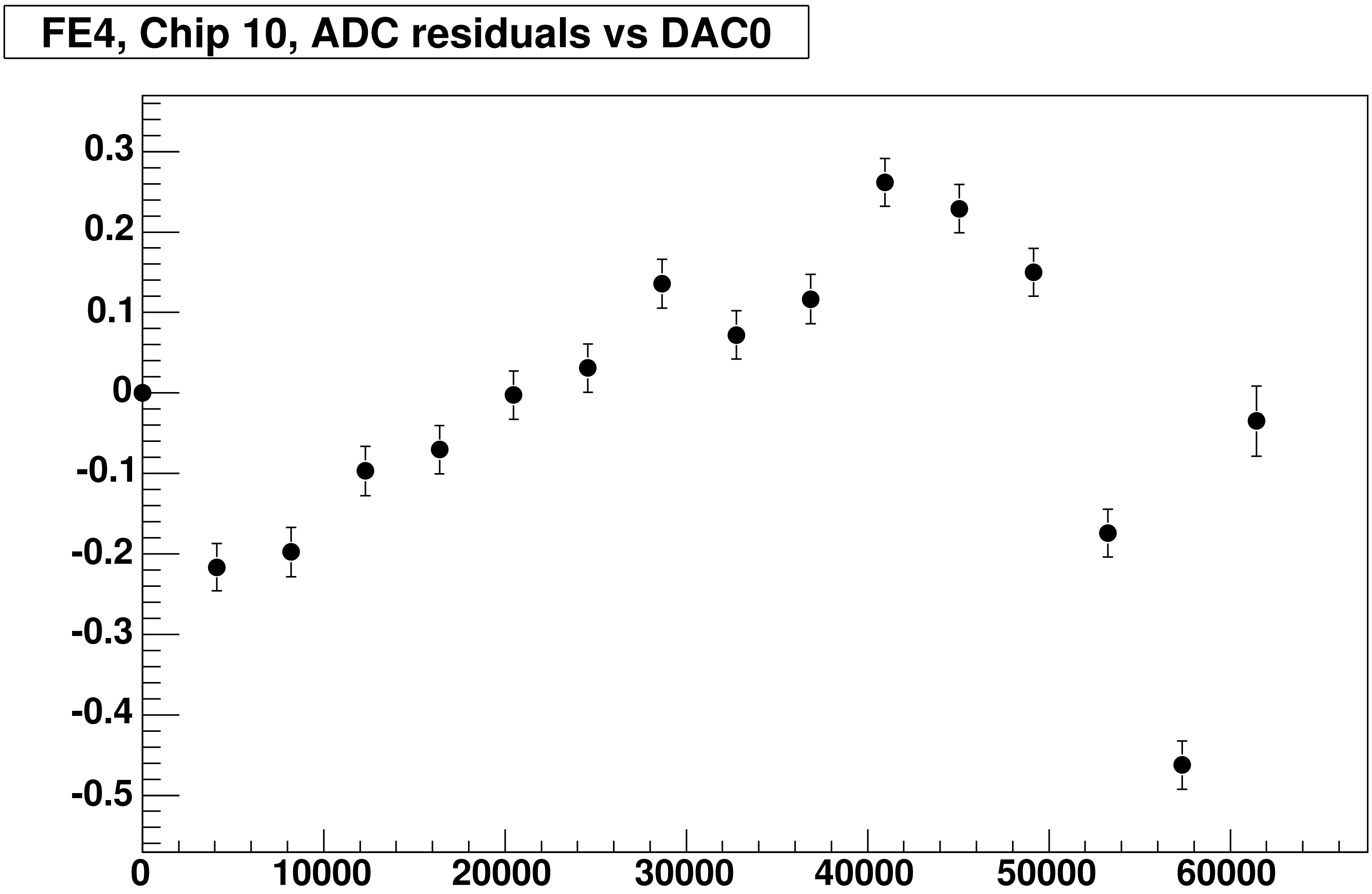

FE4, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
-8
0
10000
20000
30000
40000
50000
60000



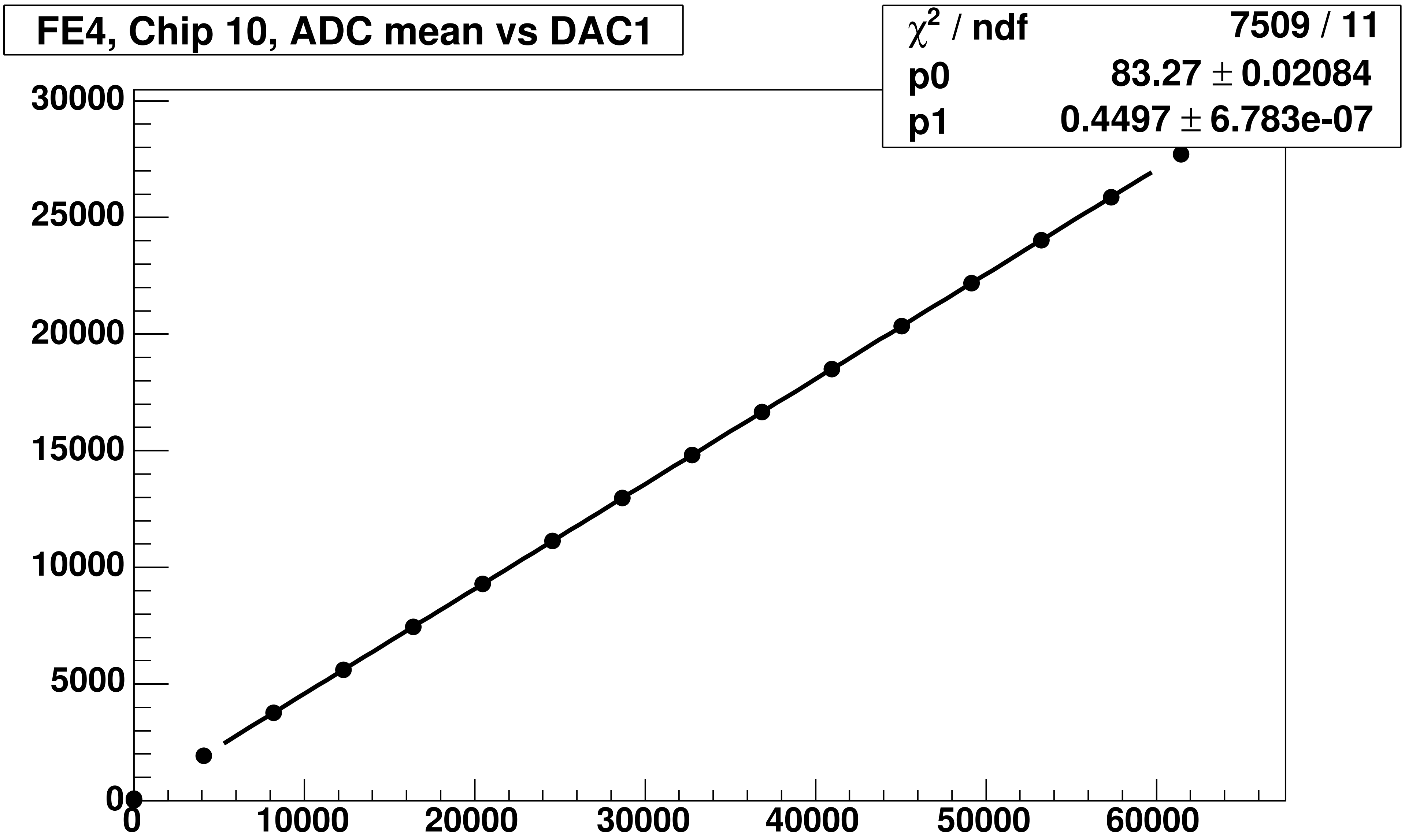
FE4, Chip 10, ADC mean vs DAC0
χ^2 / ndf 531.1 / 11
p0 83.81 ± 0.01983
p1 -6.828e-06 ± 5.458e-07
90
80
70
60
50
40
30
20
10
0
10000
20000
30000
40000
50000
60000



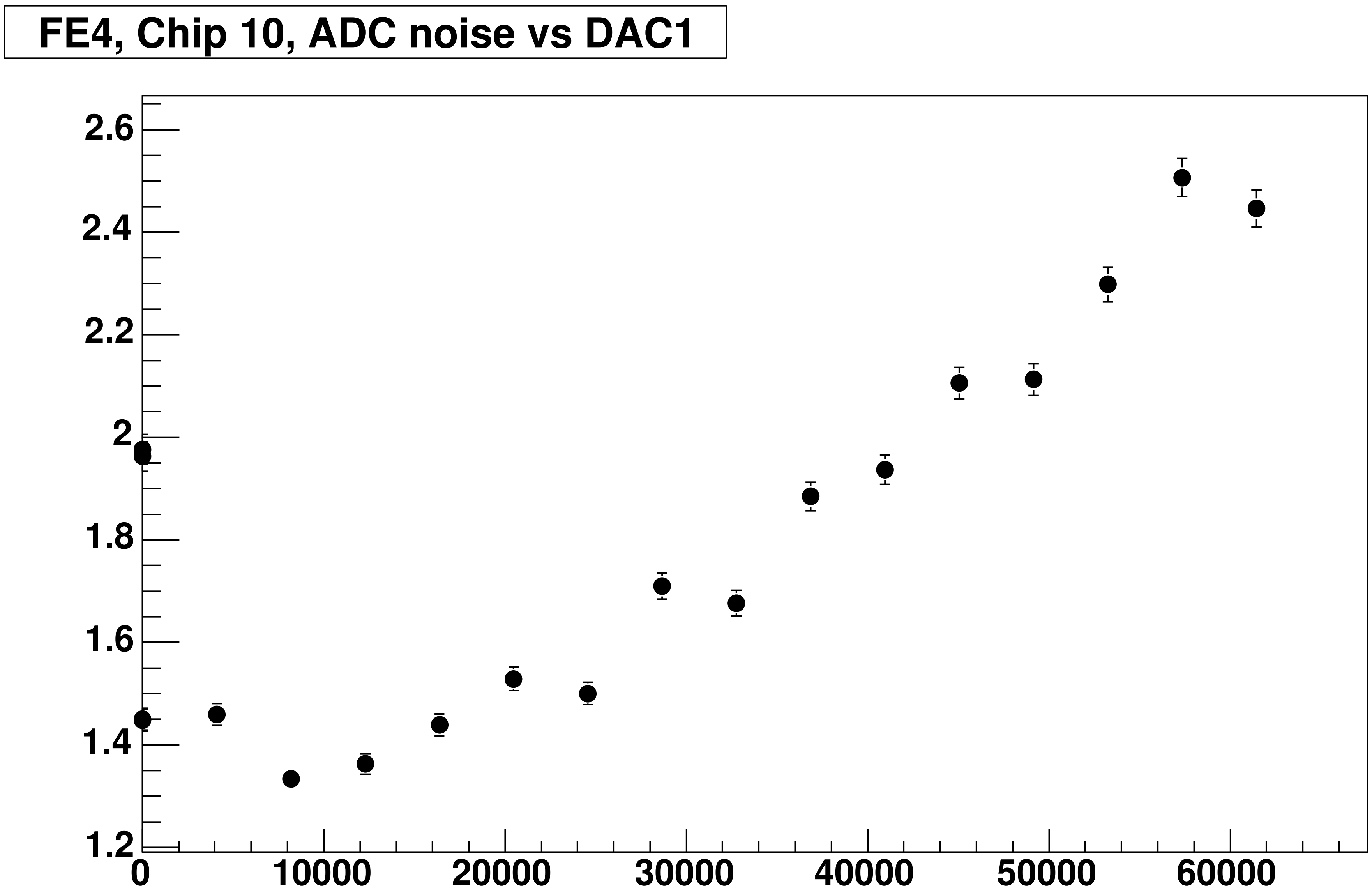
FE4, Chip 10, ADC noise vs DAC0
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000



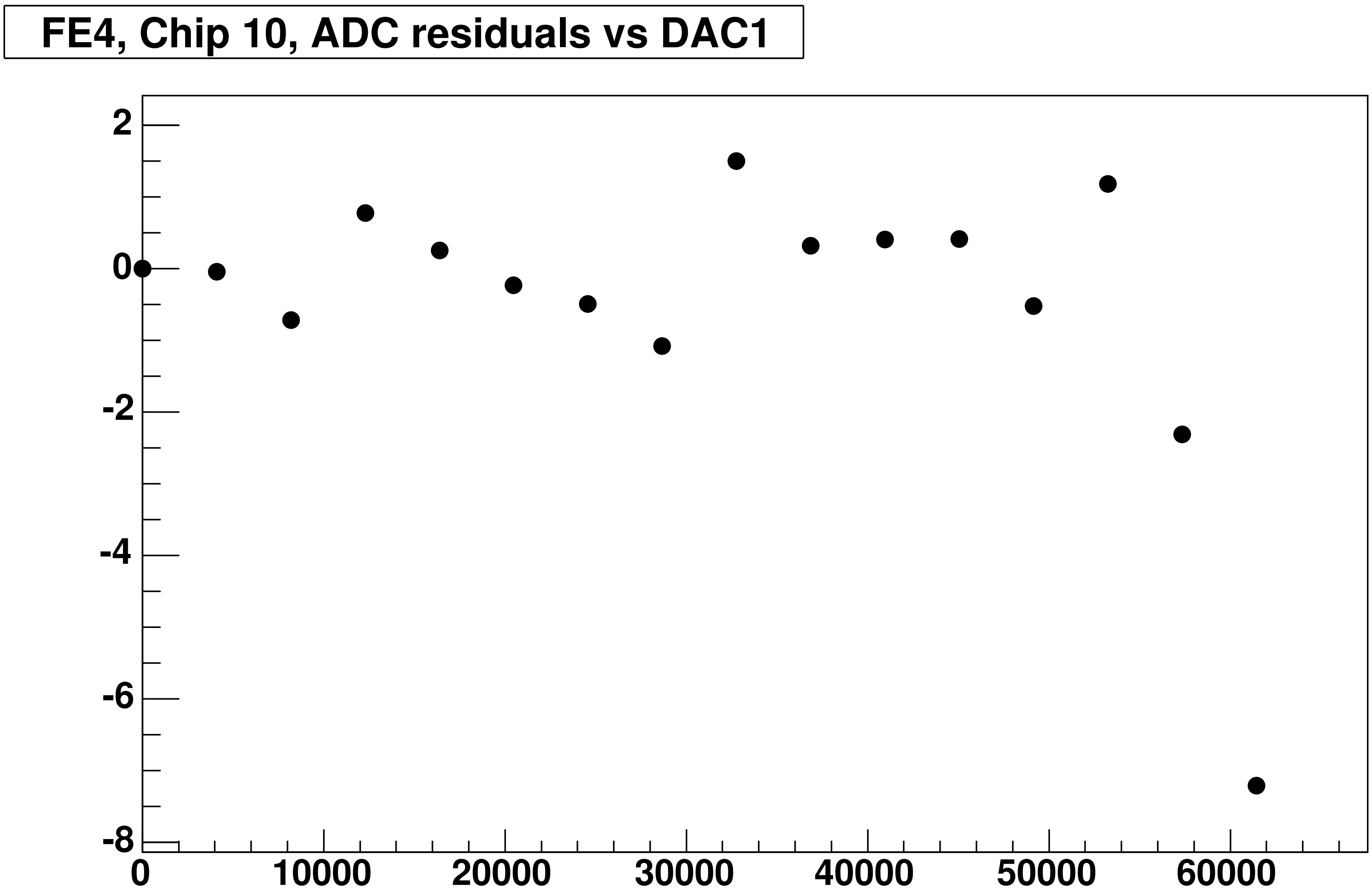
FE4, Chip 10, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000



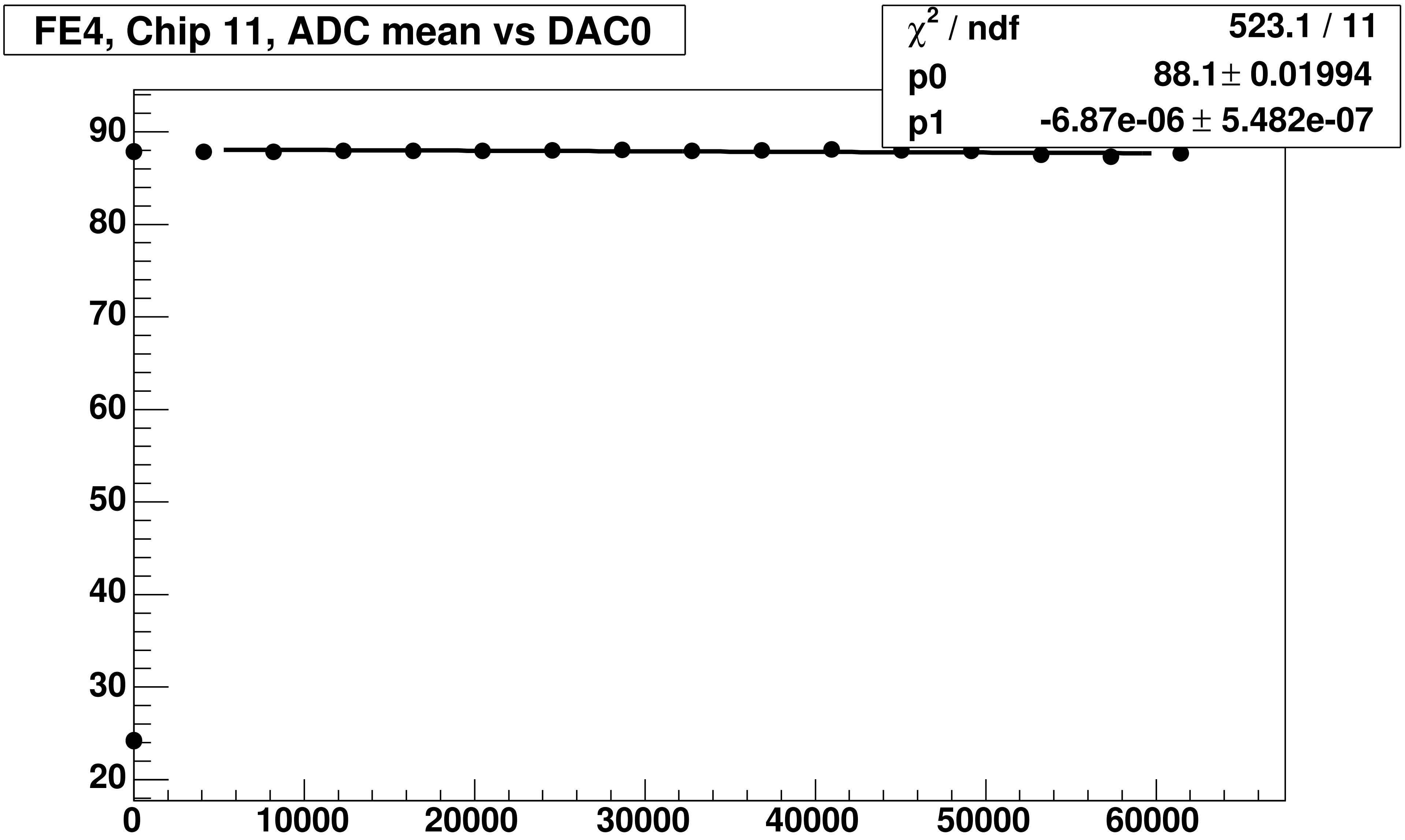
FE4, Chip 10, ADC mean vs DAC1
χ^2 / ndf 7509 / 11
p0 83.27 ± 0.02084
p1 0.4497 ± 6.783e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



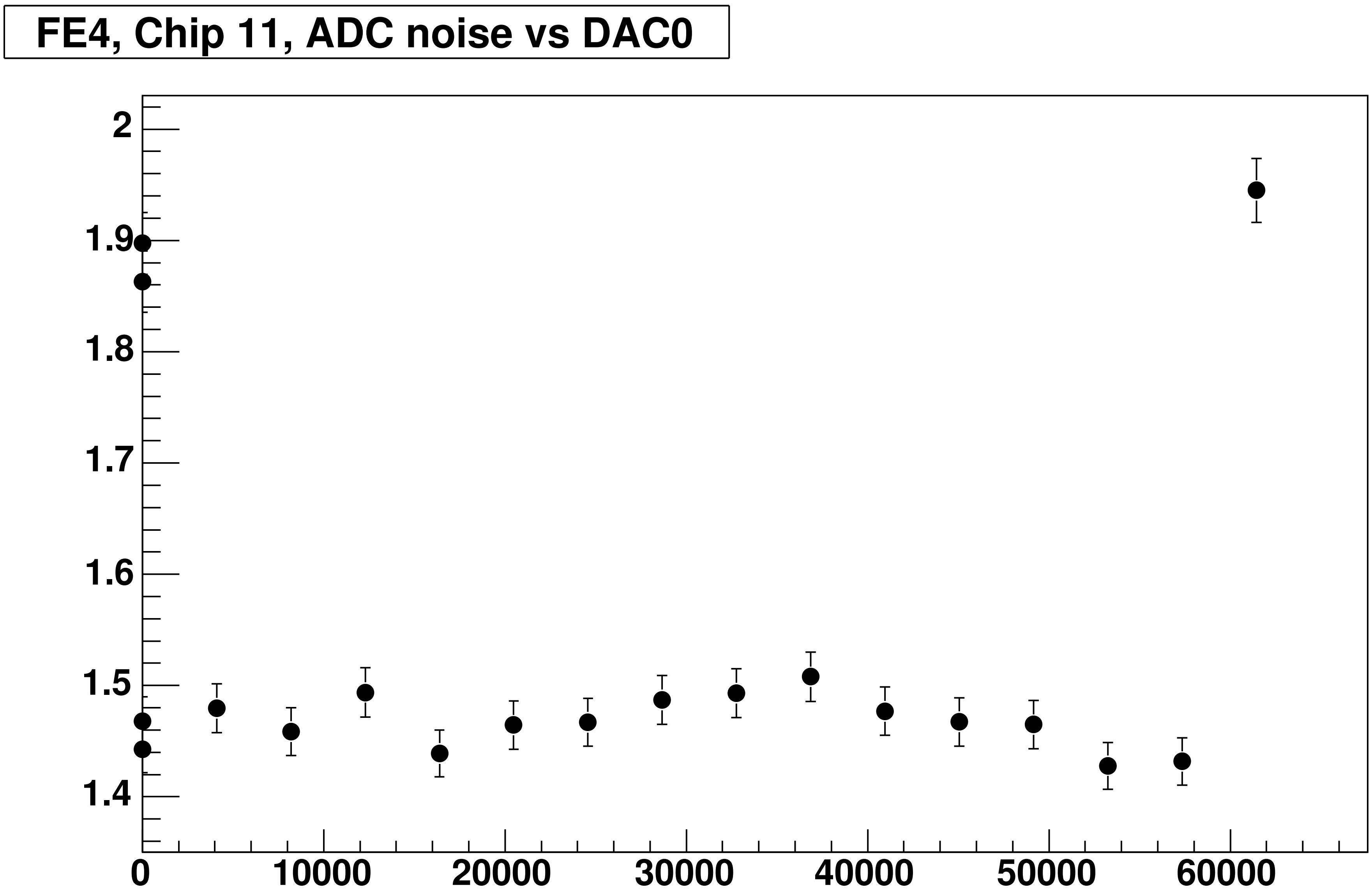
FE4, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

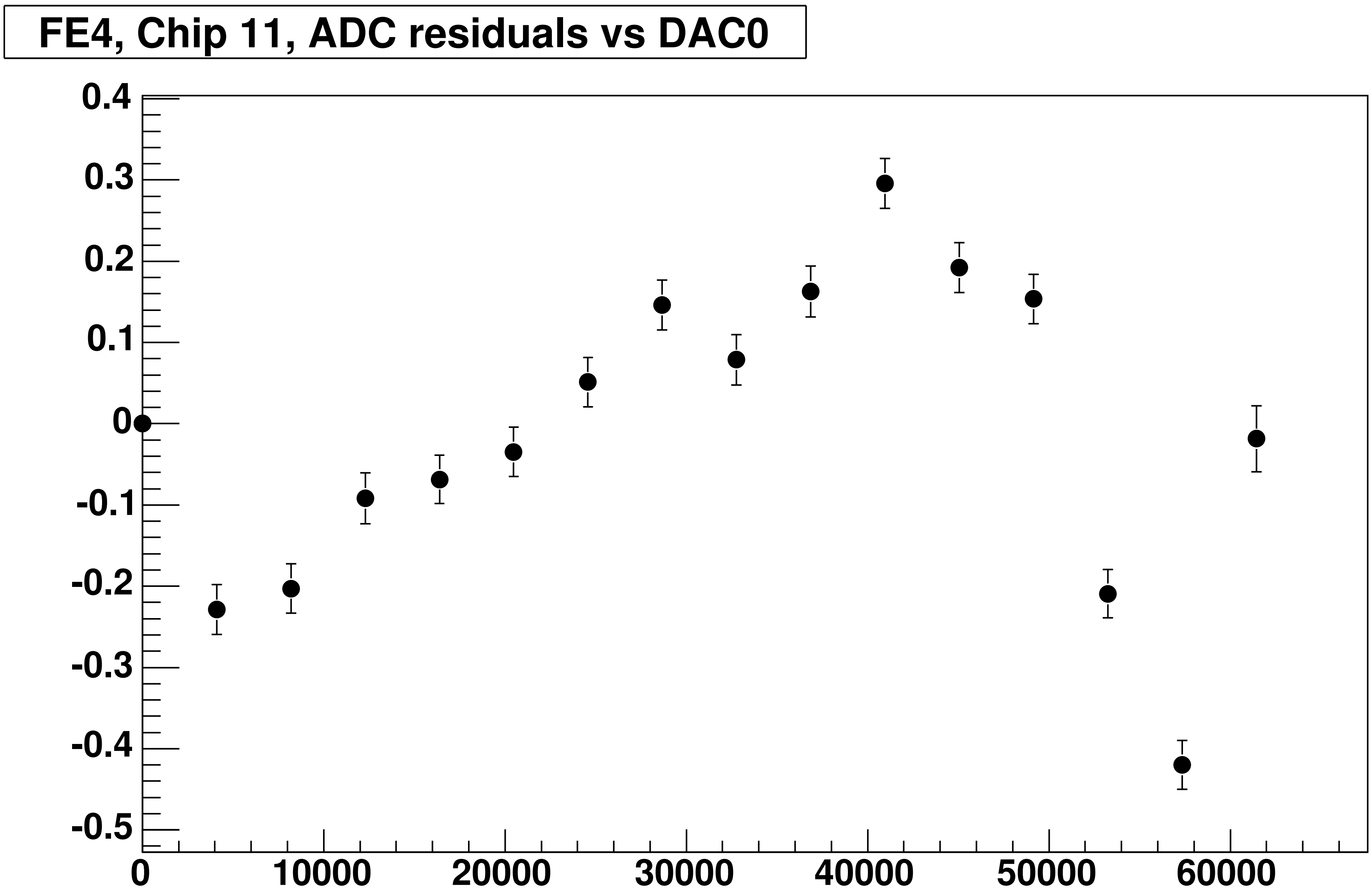


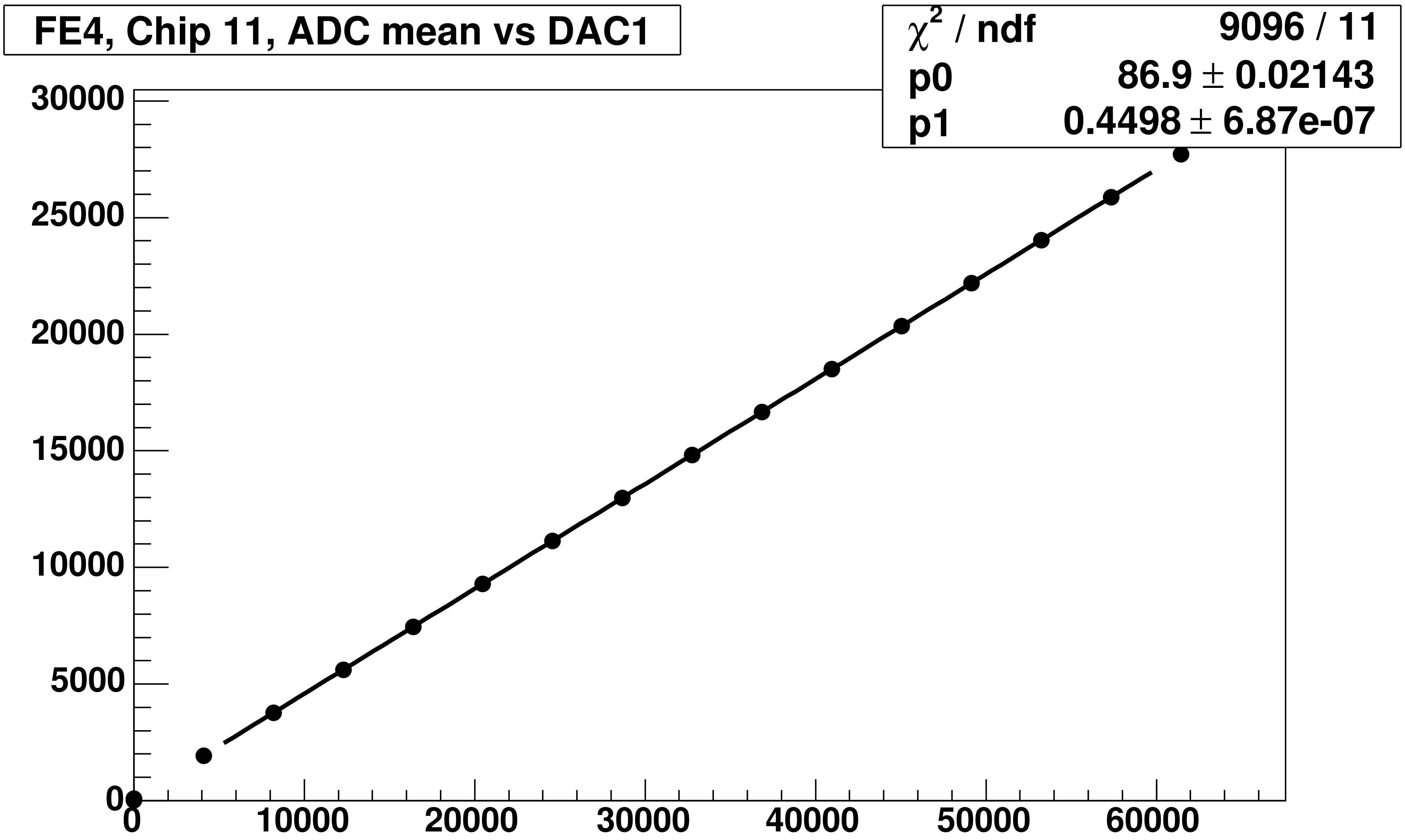
FE4, Chip 10, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000



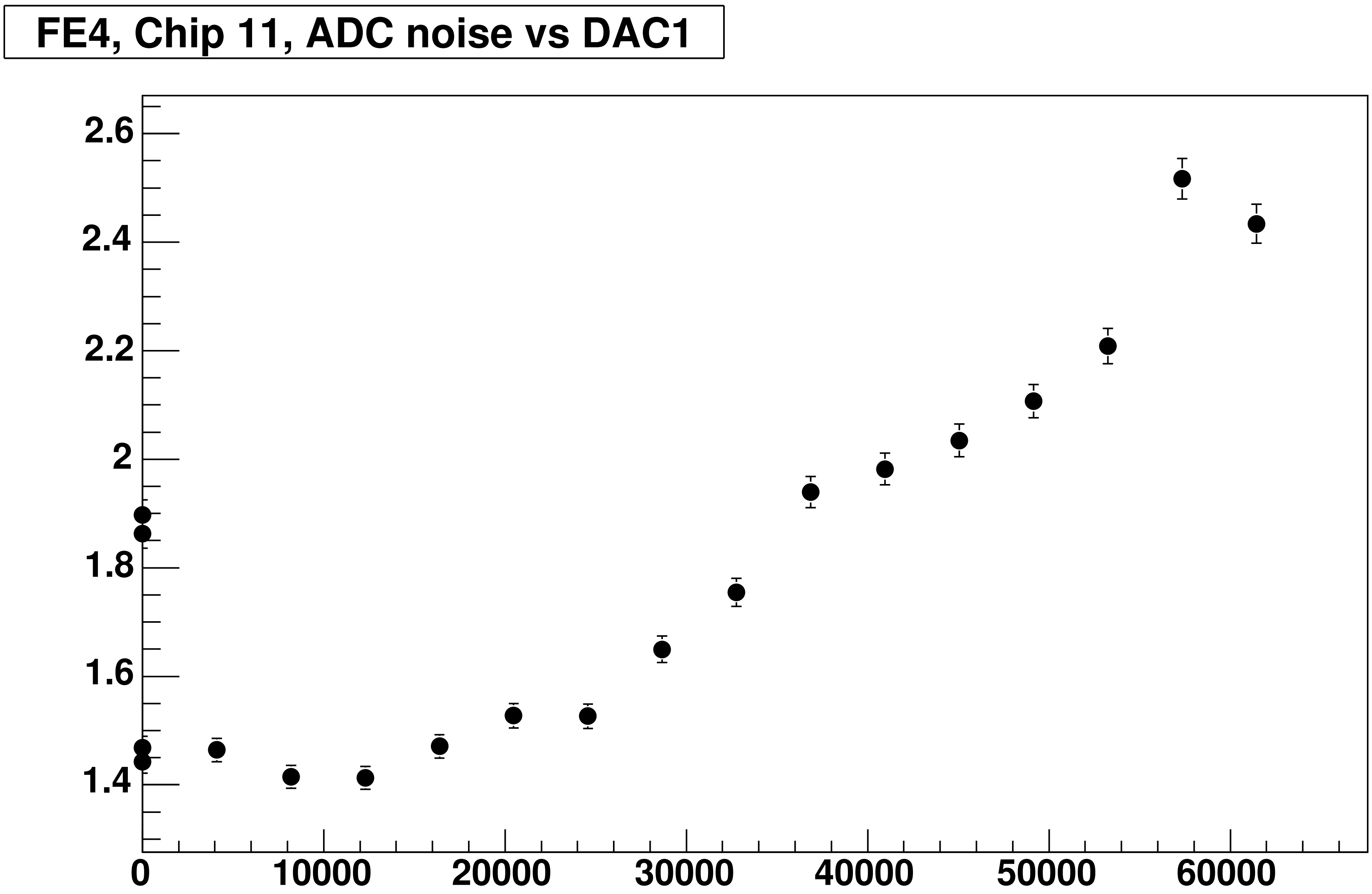
FE4, Chip 11, ADC mean vs DAC0
χ^2 / ndf 523.1 / 11
p0 88.1 ± 0.01994
p1 -6.87e-06 ± 5.482e-07
90
80
70
60
50
40
30
20
0
10000
20000
30000
40000
50000
60000

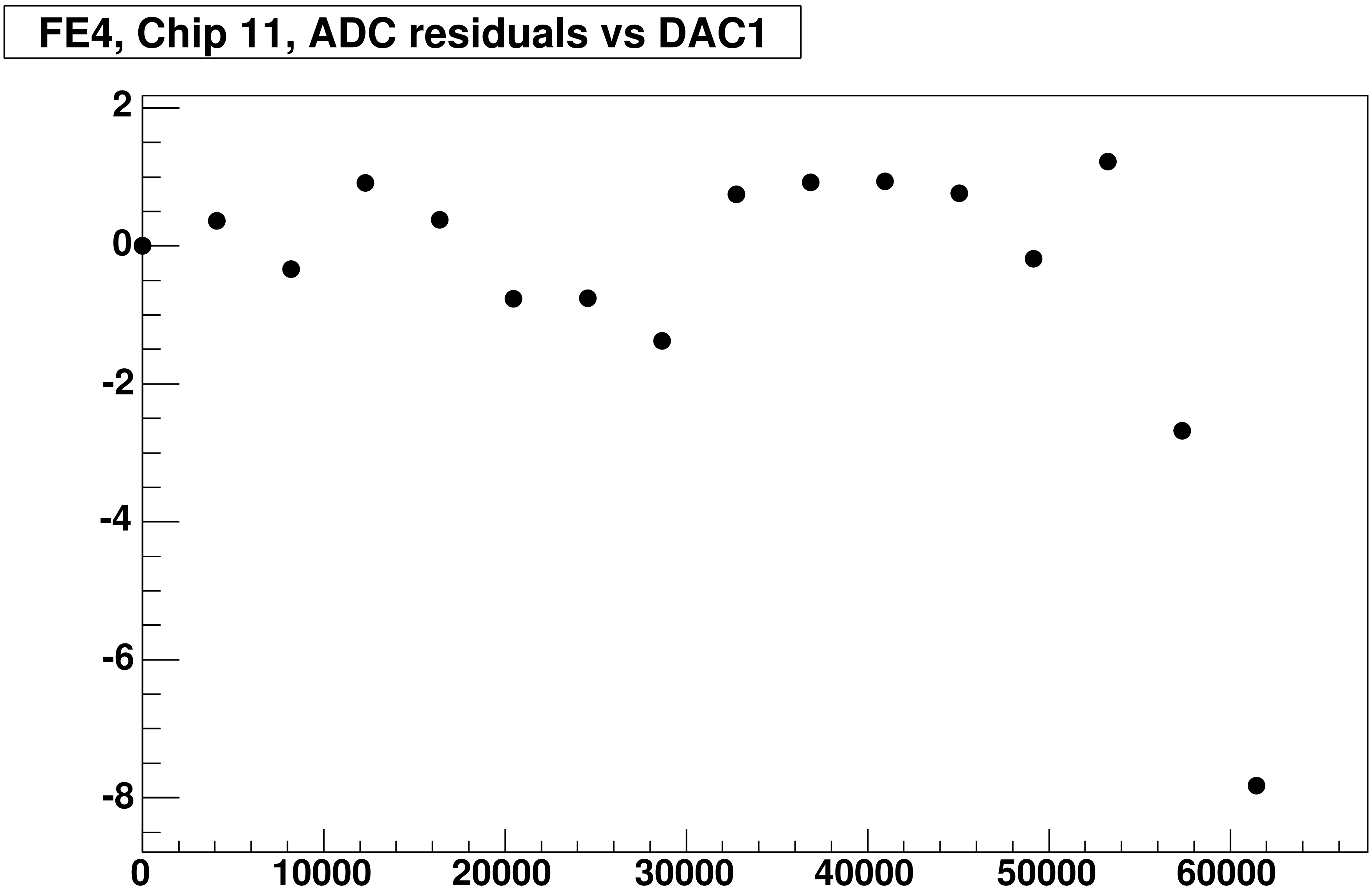

FE4, Chip 11, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000


FE4, Chip 11, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

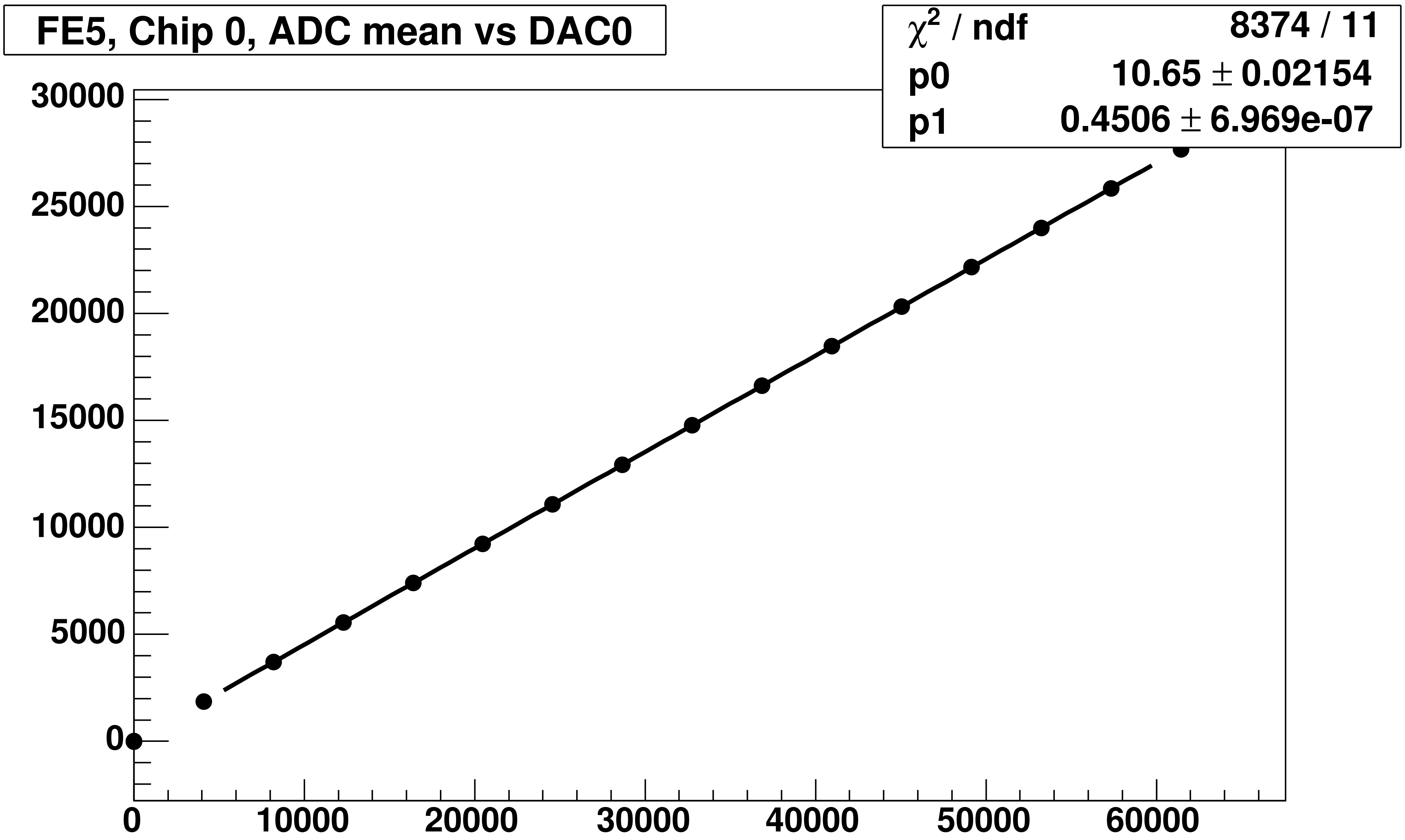


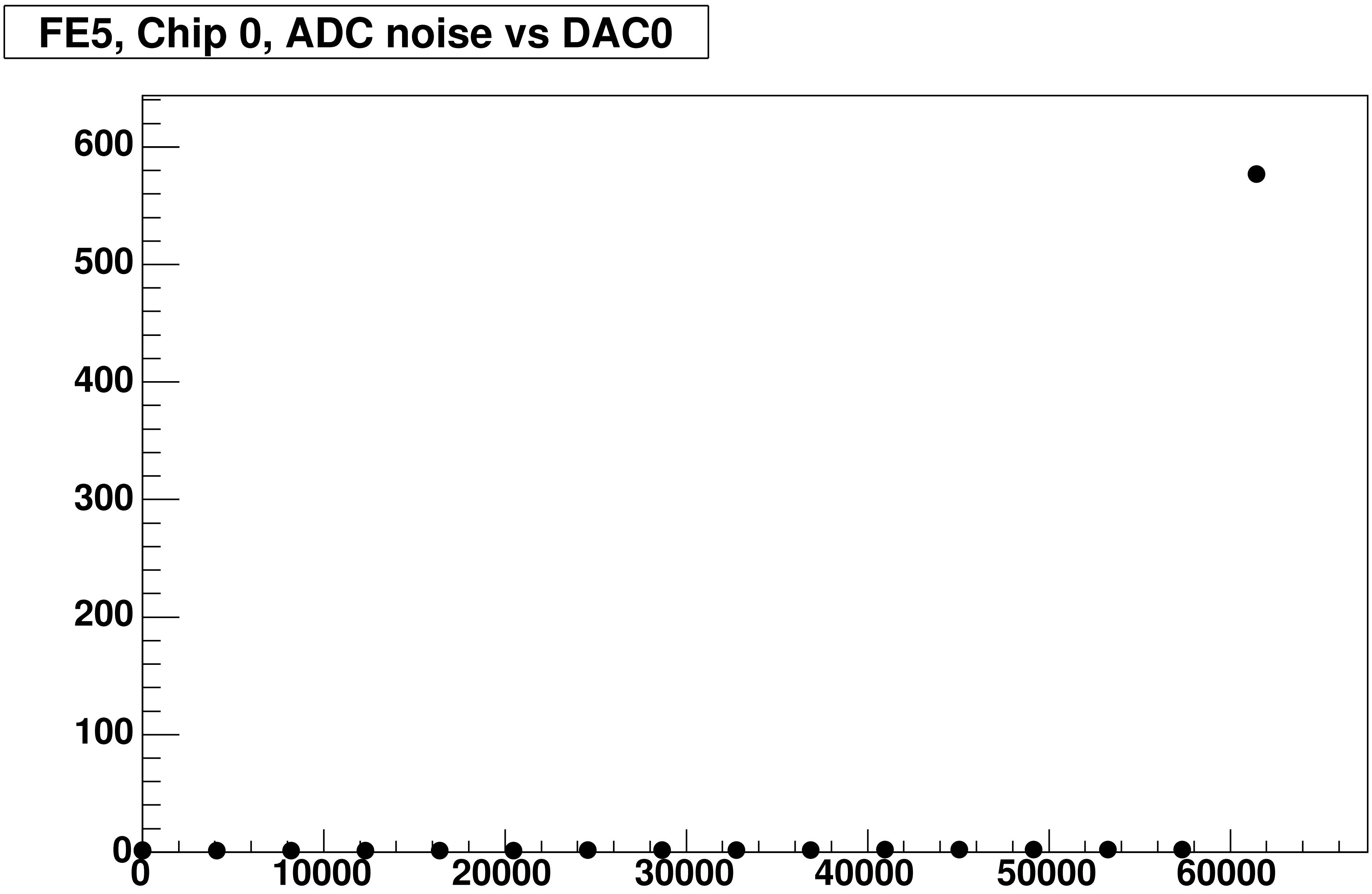
FE4, Chip 11, ADC mean vs DAC1
χ^2 / ndf 9096 / 11
p0 86.9 ± 0.02143
p1 0.4498 ± 6.87e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

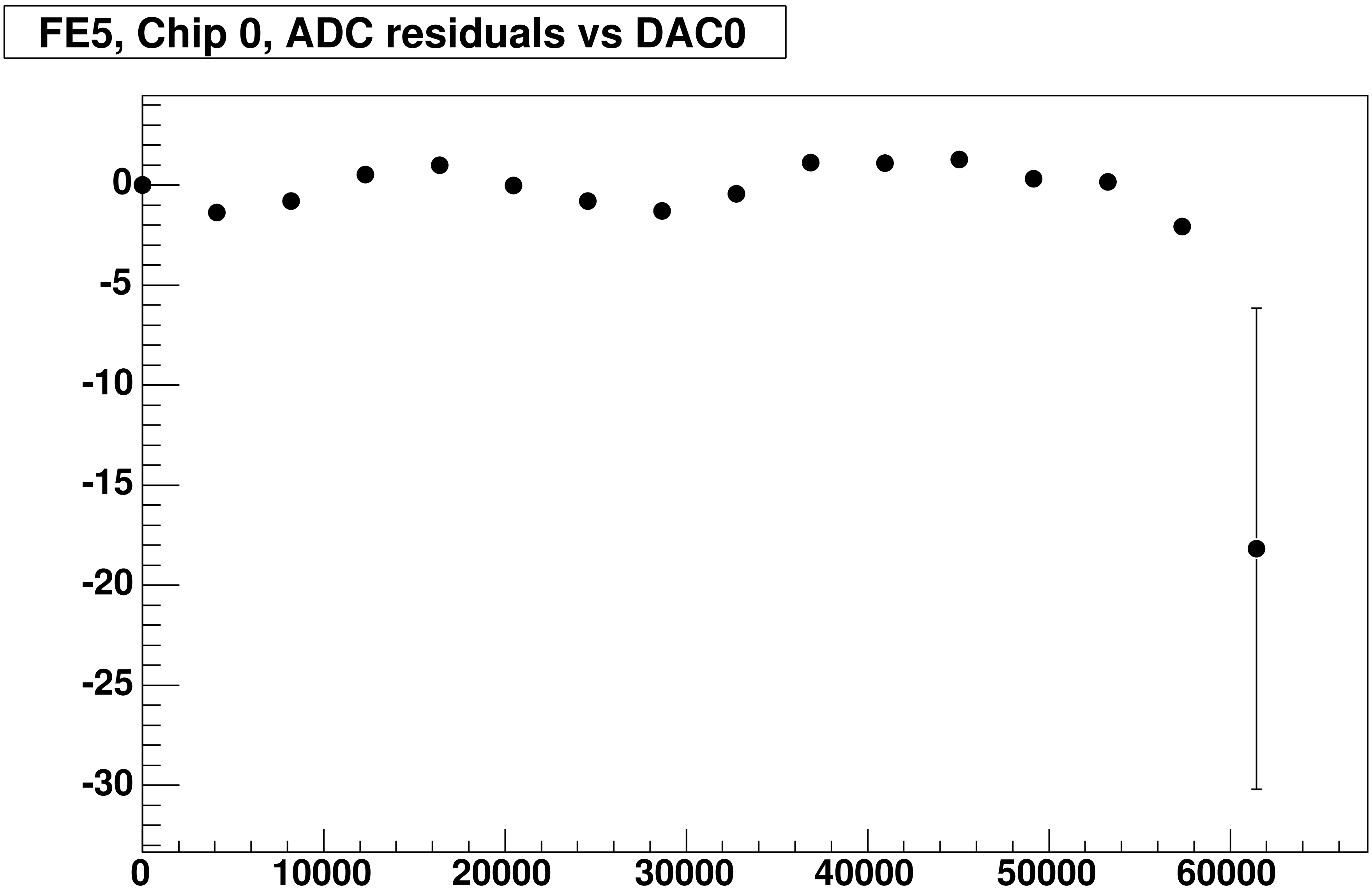

FE4, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

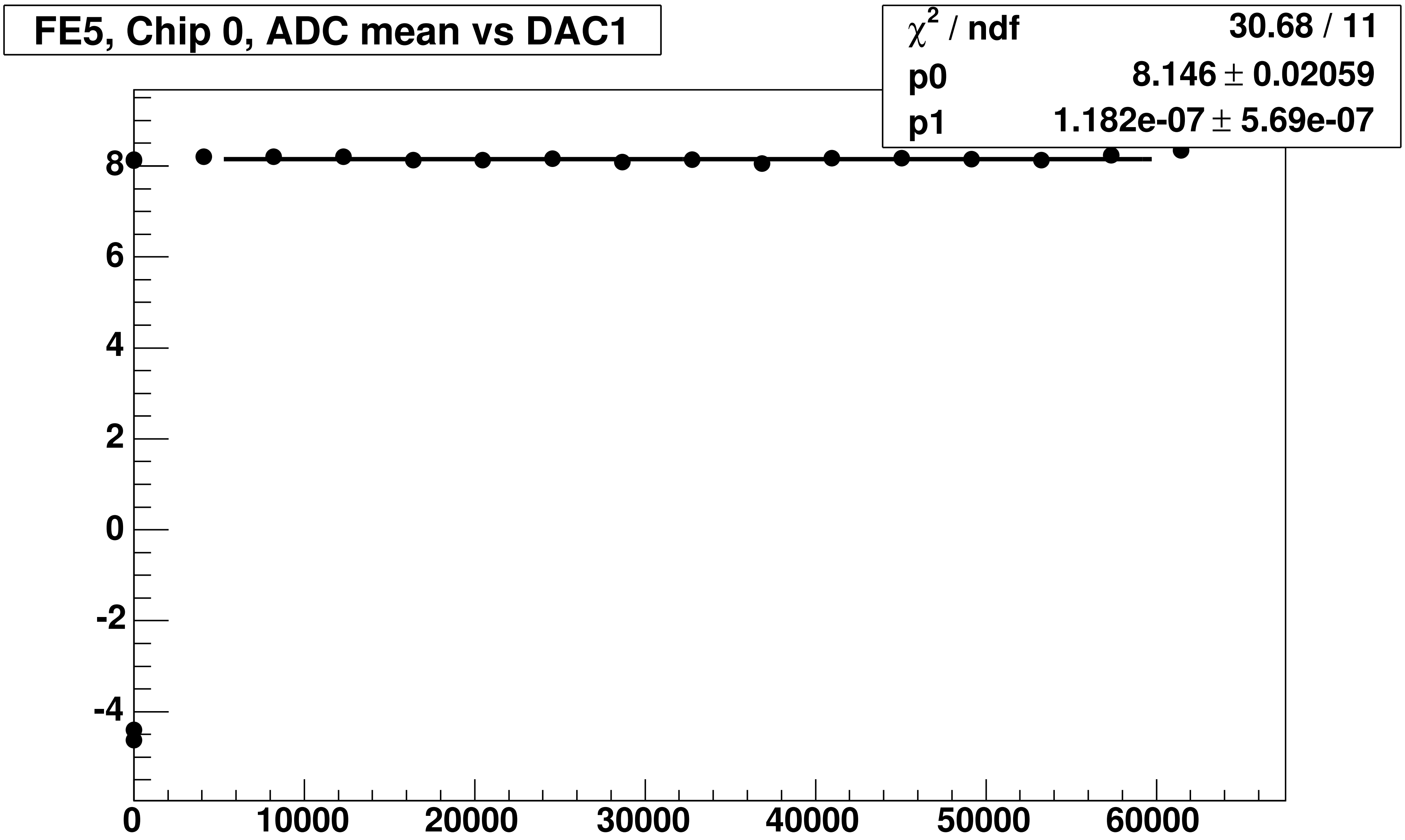


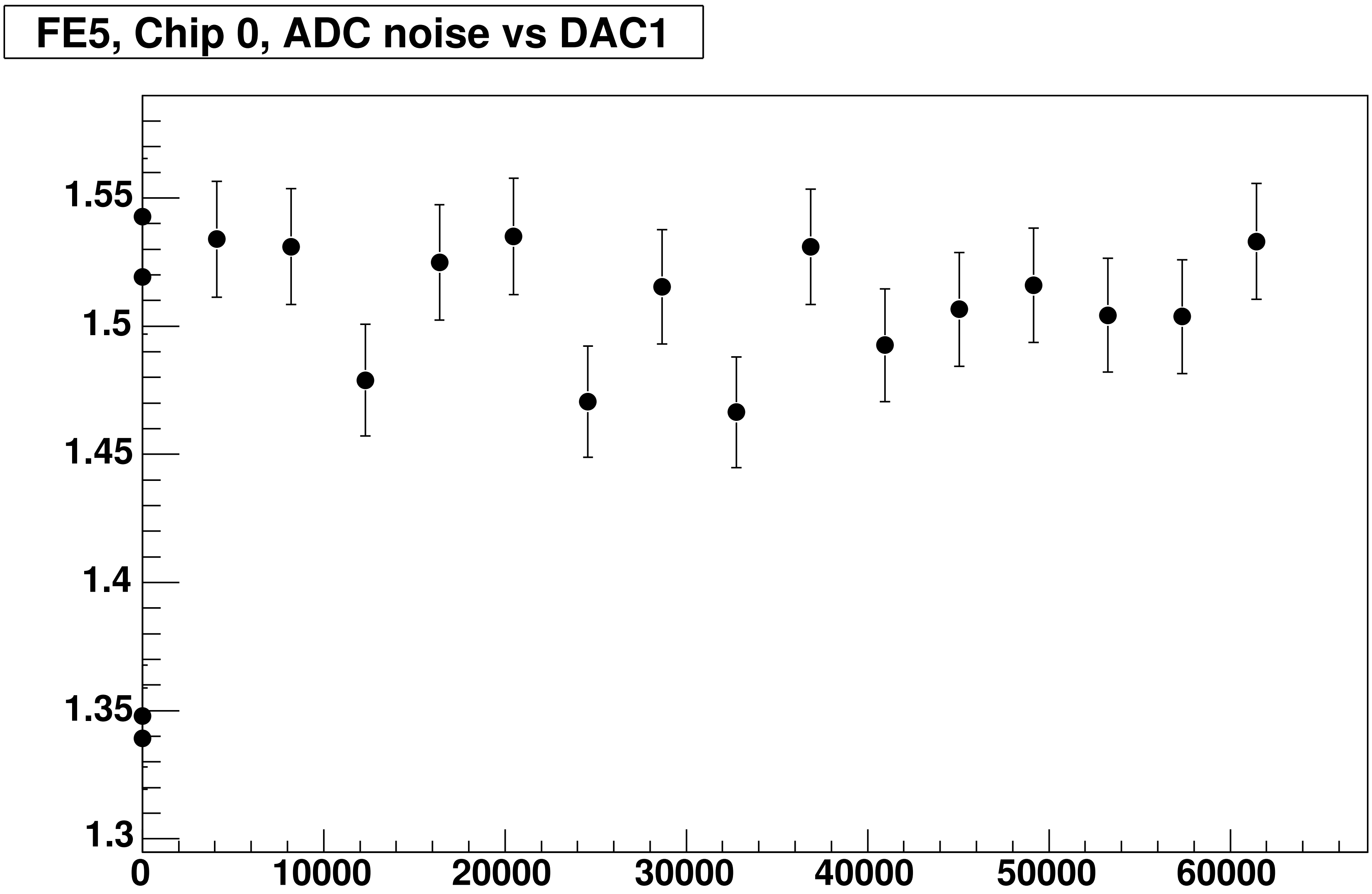
FE4, Chip 11, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000


FE5, Chip 0, ADC mean vs DAC0
χ^2 / ndf 8374 / 11
p0 10.65 ± 0.02154
p1 0.4506 ± 6.969e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

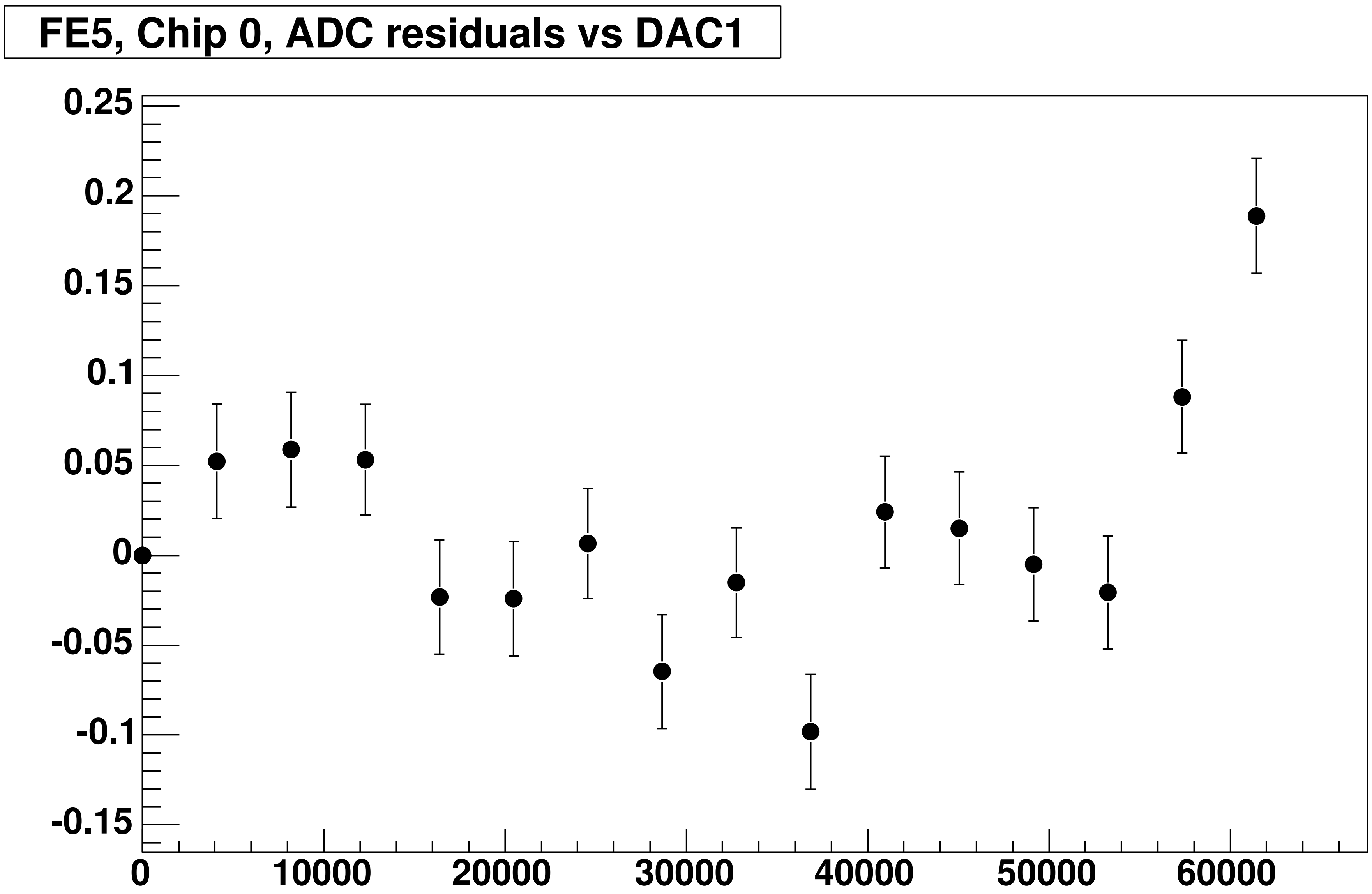

FE5, Chip 0, ADC noise vs DAC0
0
100
200
300
400
500
600
0
10000
20000
30000
40000
50000
60000

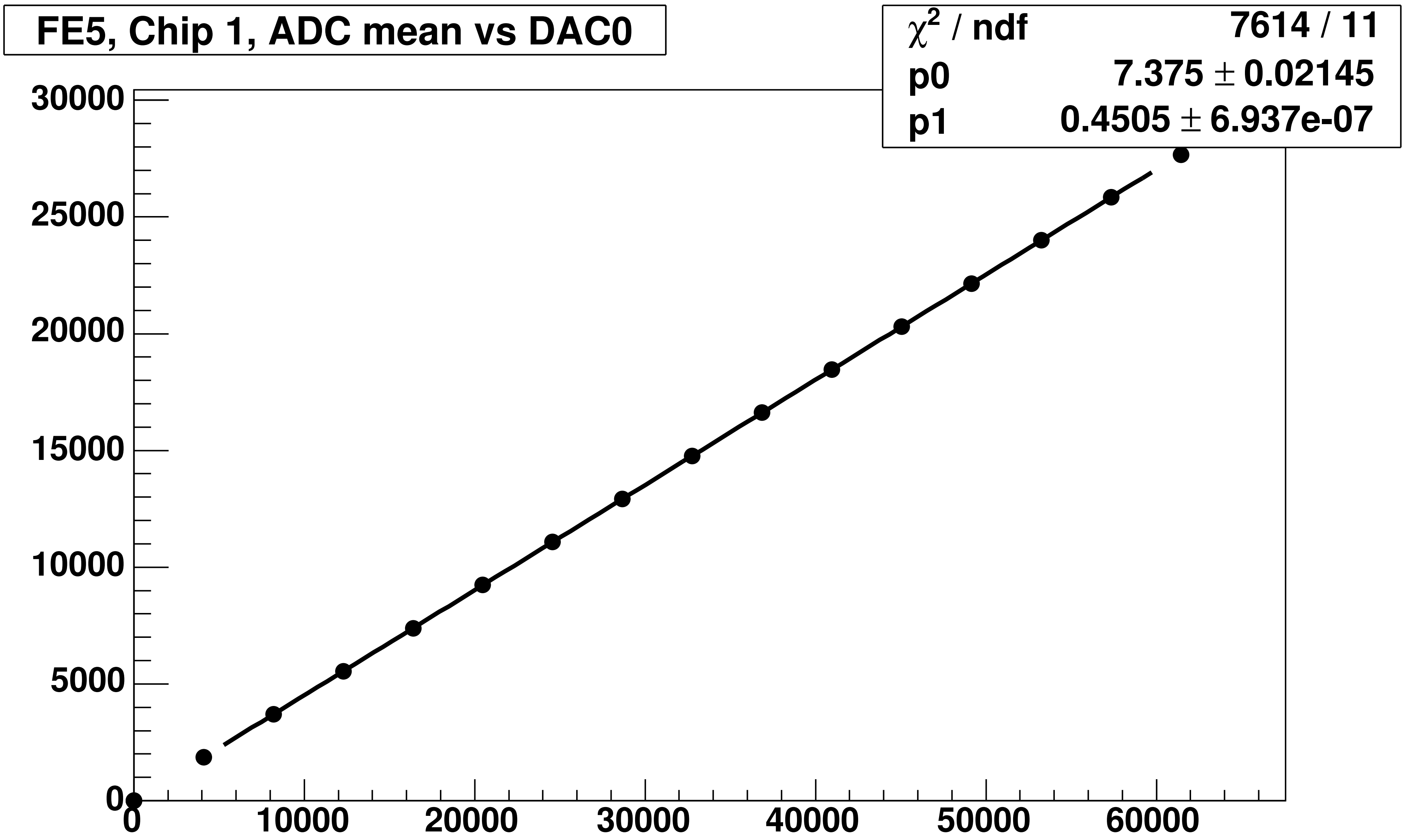

FE5, Chip 0, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000


FE5, Chip 0, ADC mean vs DAC1
χ^2 / ndf 30.68 / 11
p0 8.146 ± 0.02059
p1 1.182e-07 ± 5.69e-07
8
6
4
2
0
-2
-4
0
10000
20000
30000
40000
50000
60000

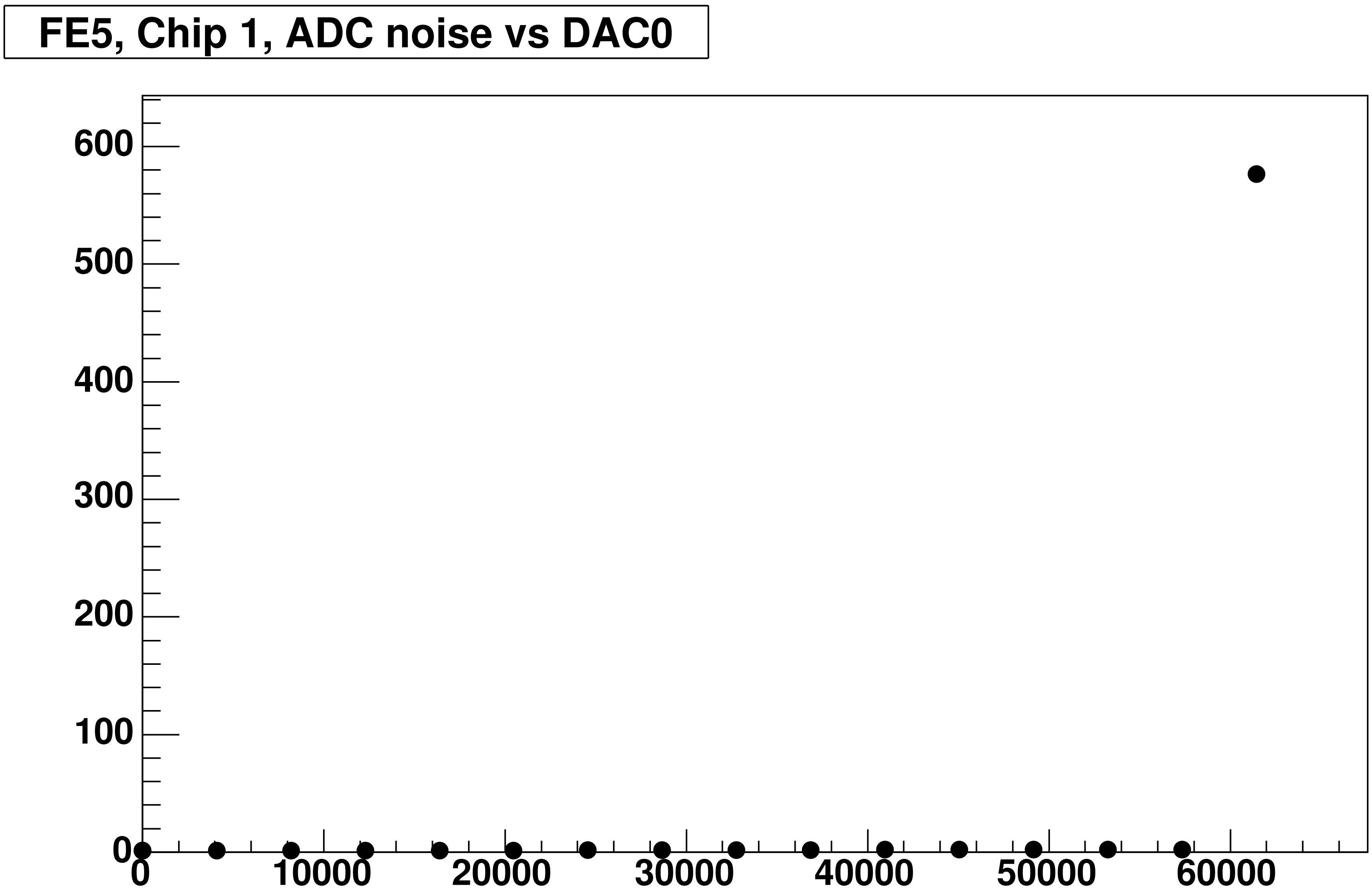


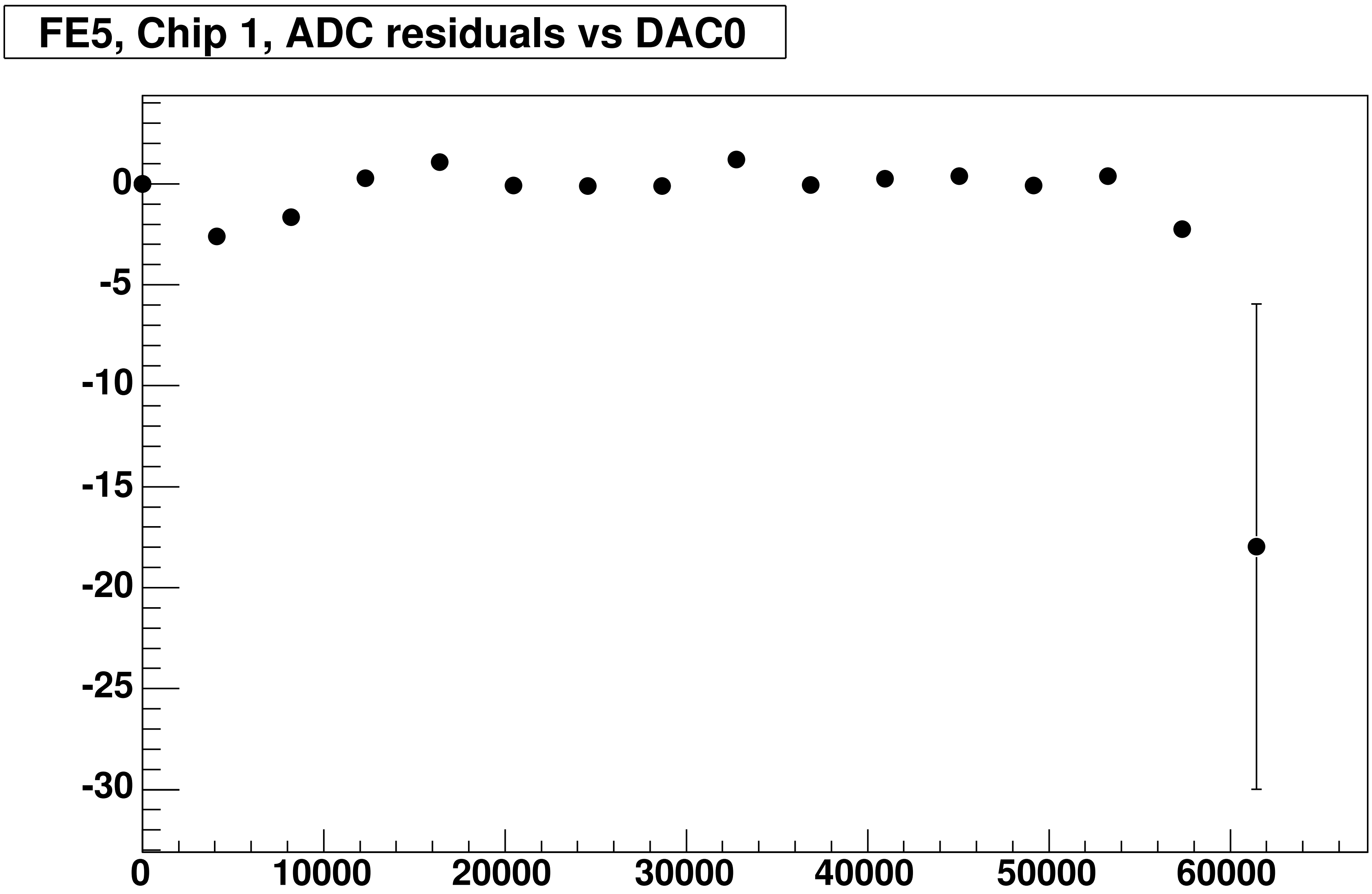
FE5, Chip 0, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


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

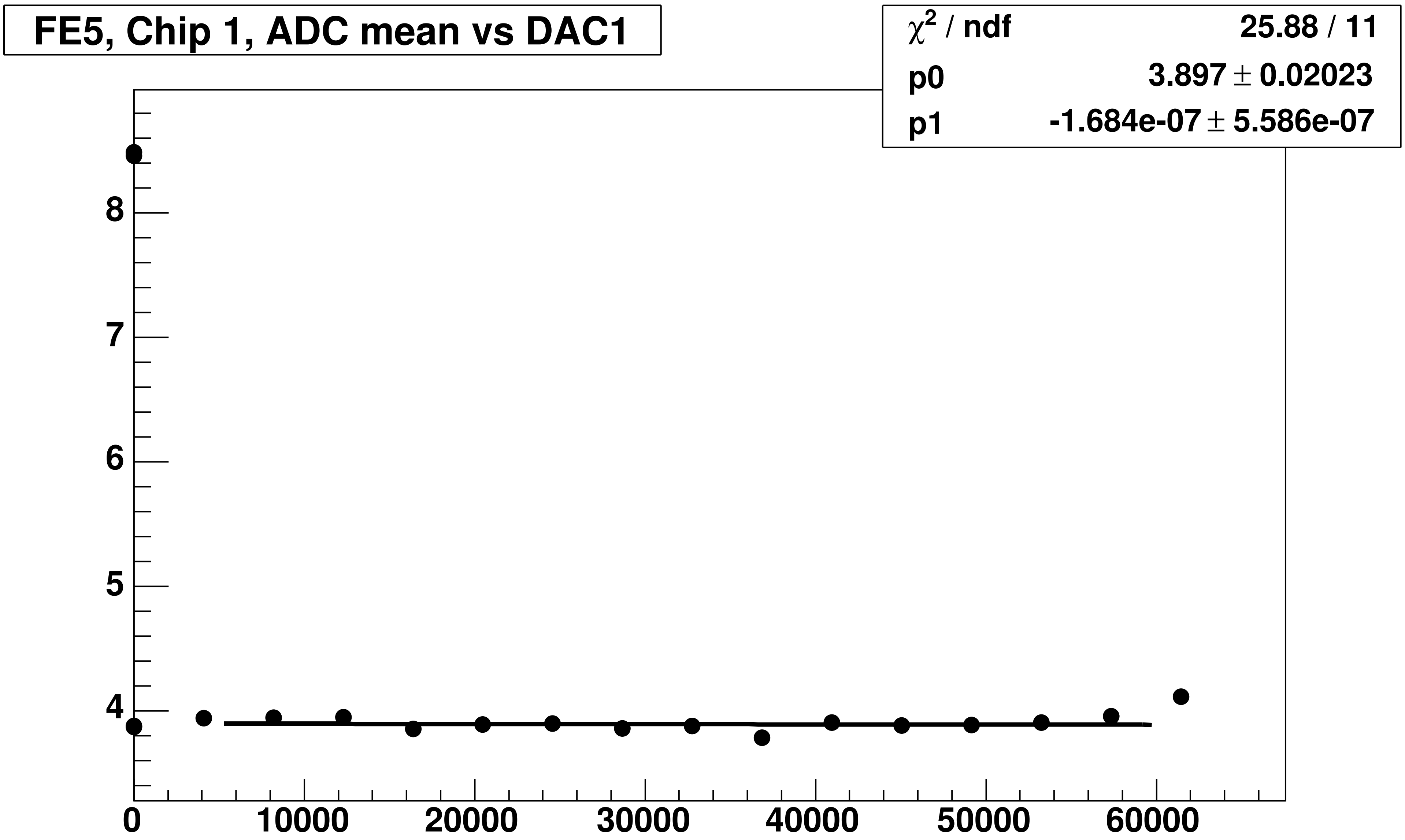


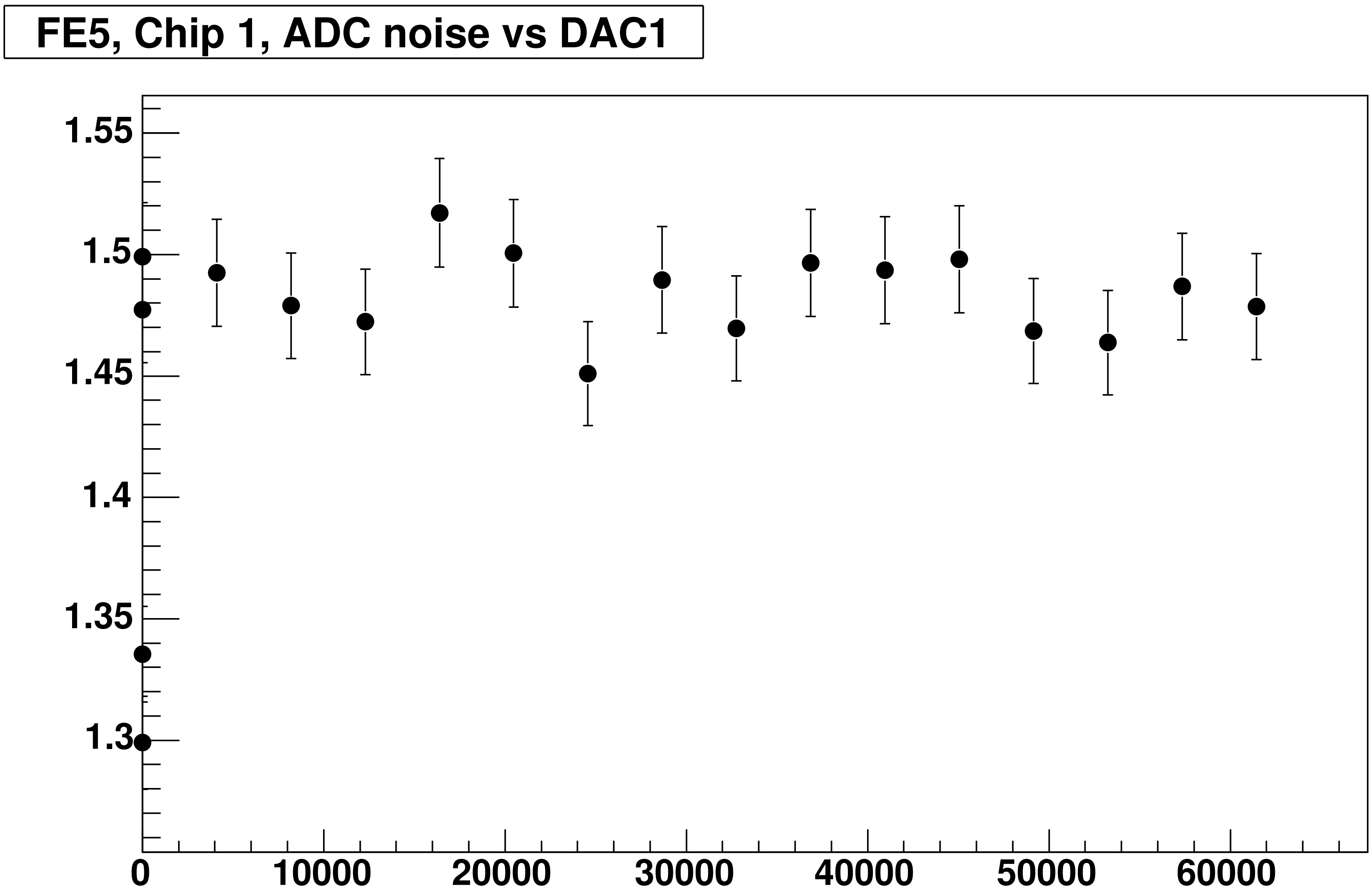
FE5, Chip 1, ADC mean vs DAC0
χ² / ndf 7614 / 11
p0 7.375 ± 0.02145
p1 0.4505 ± 6.937e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

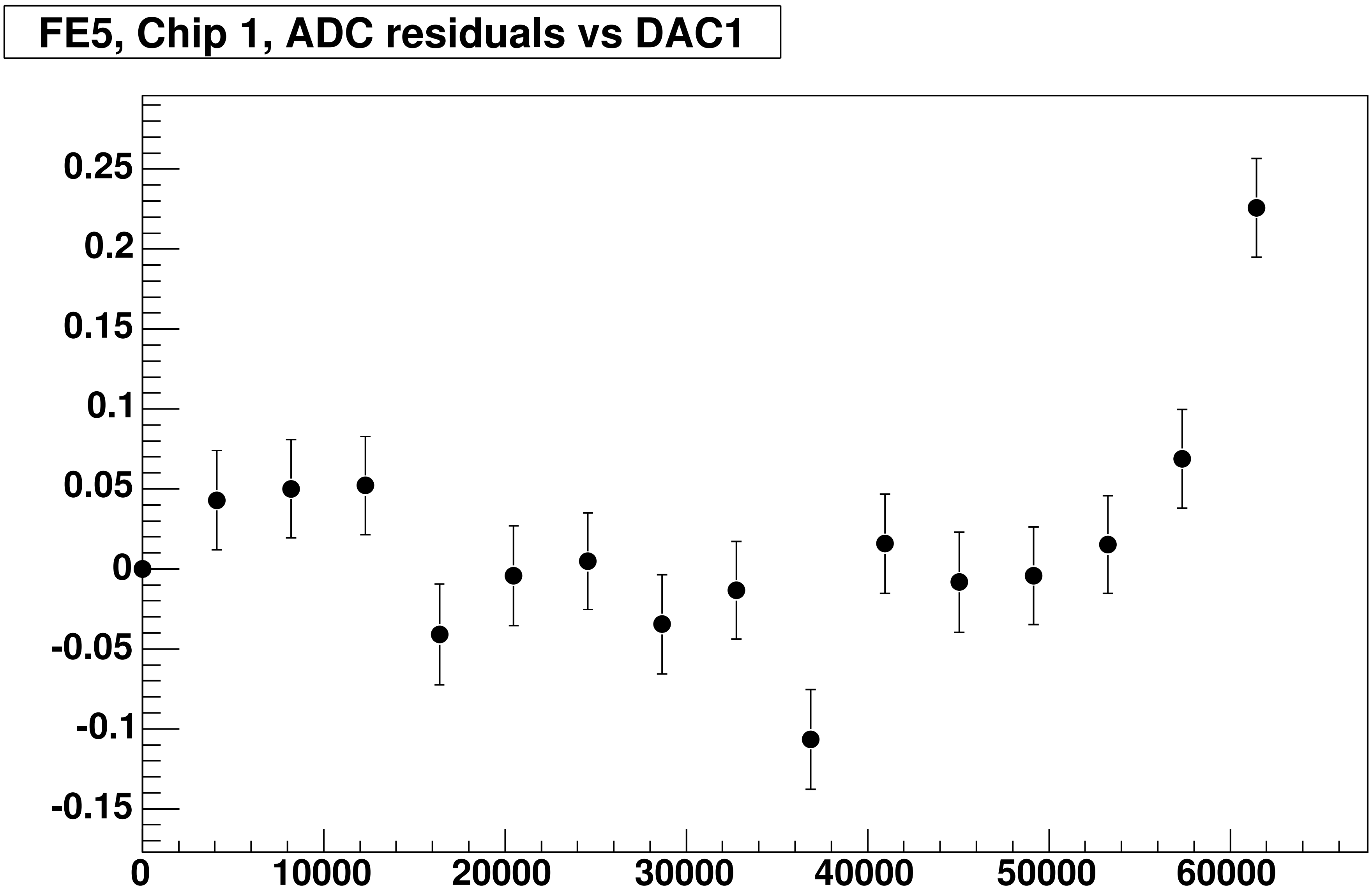

FE5, Chip 1, ADC noise vs DAC0
0
100
200
300
400
500
600
0
10000
20000
30000
40000
50000
60000

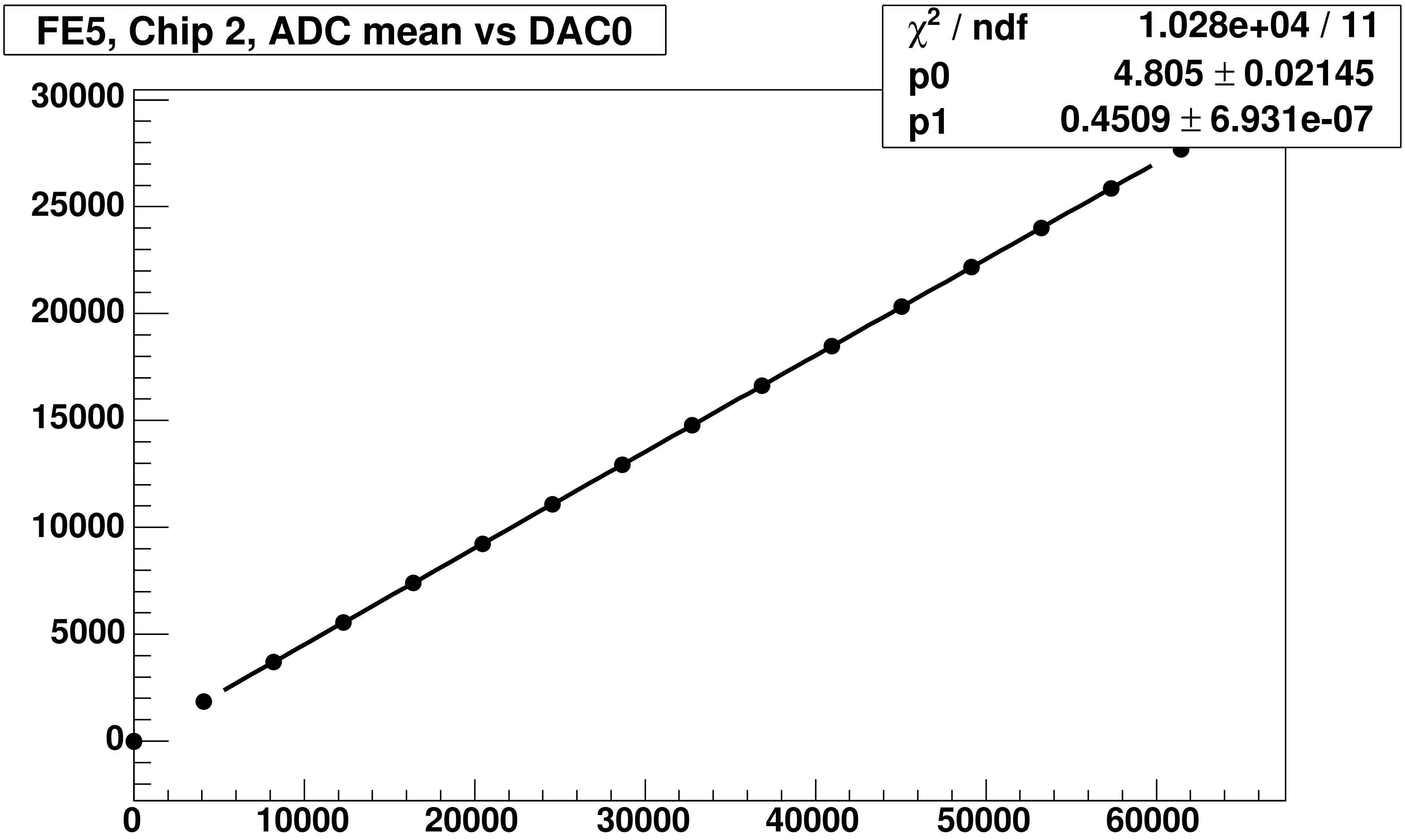


FE5, Chip 1, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

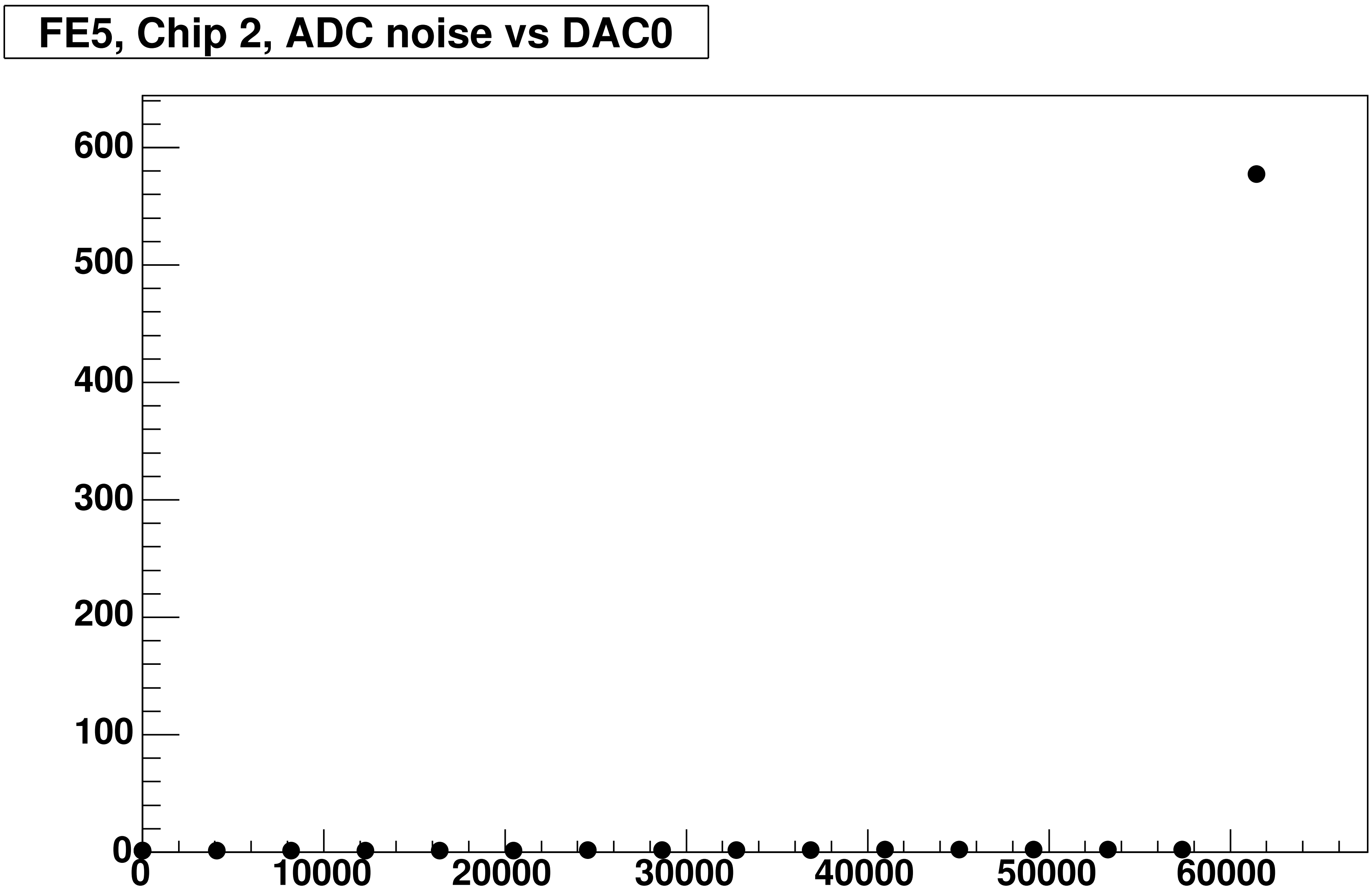

FE5, Chip 1, ADC mean vs DAC1
χ^2 / ndf 25.88 / 11
p0 3.897 ± 0.02023
p1 -1.684e-07 ± 5.586e-07
8
7
6
5
4
0
10000
20000
30000
40000
50000
60000

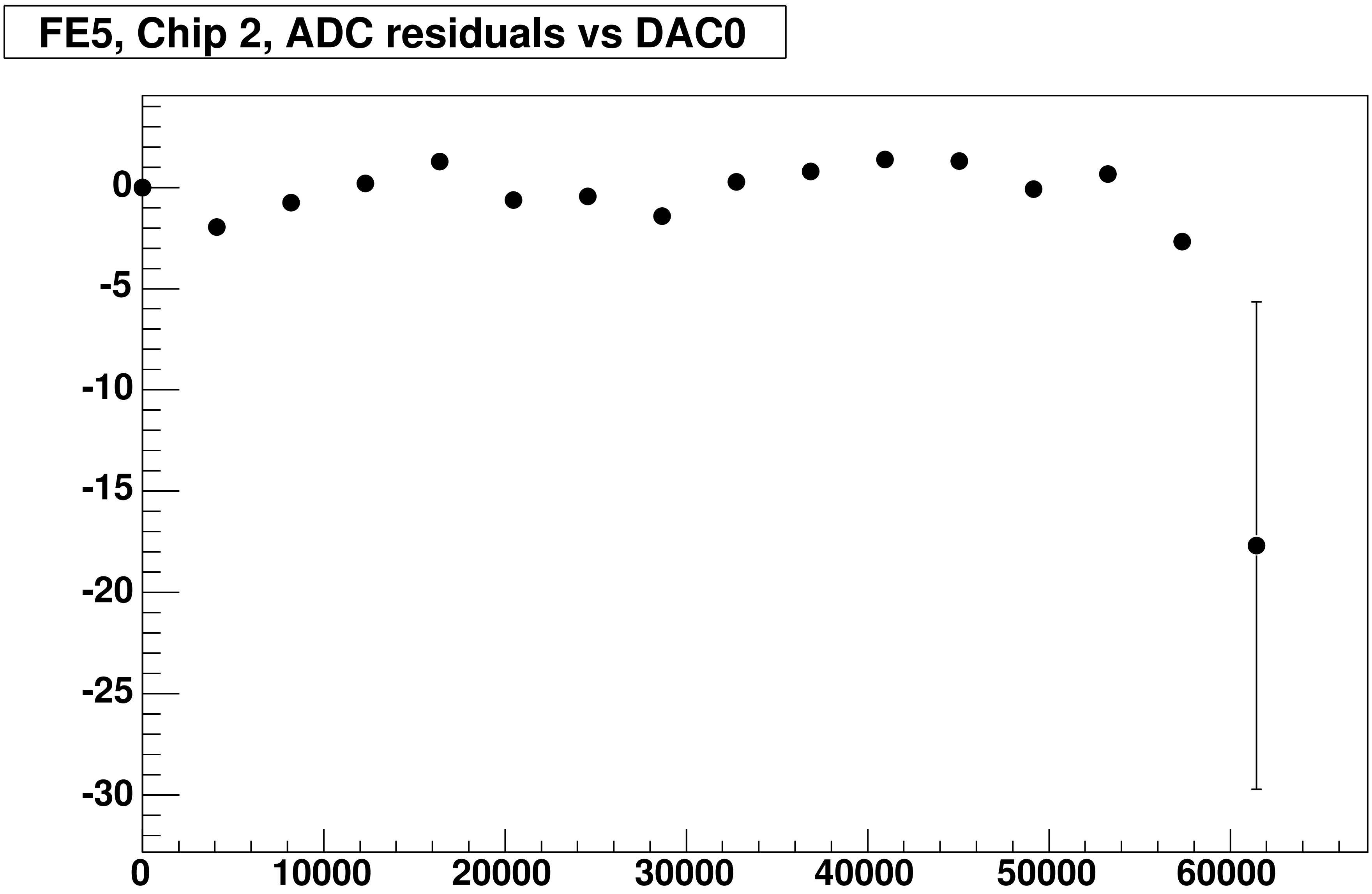

FE5, Chip 1, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

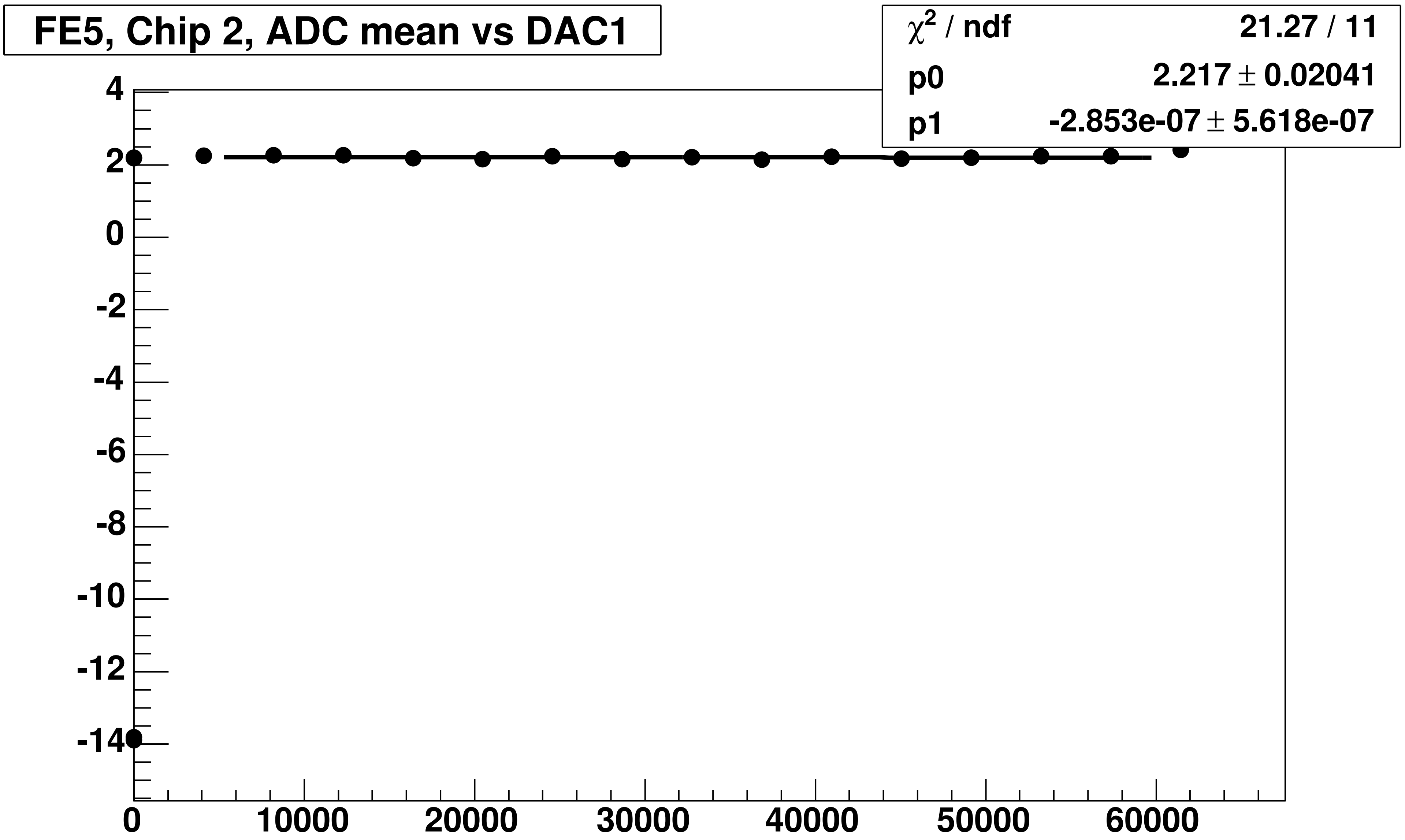

FE5, Chip 1, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

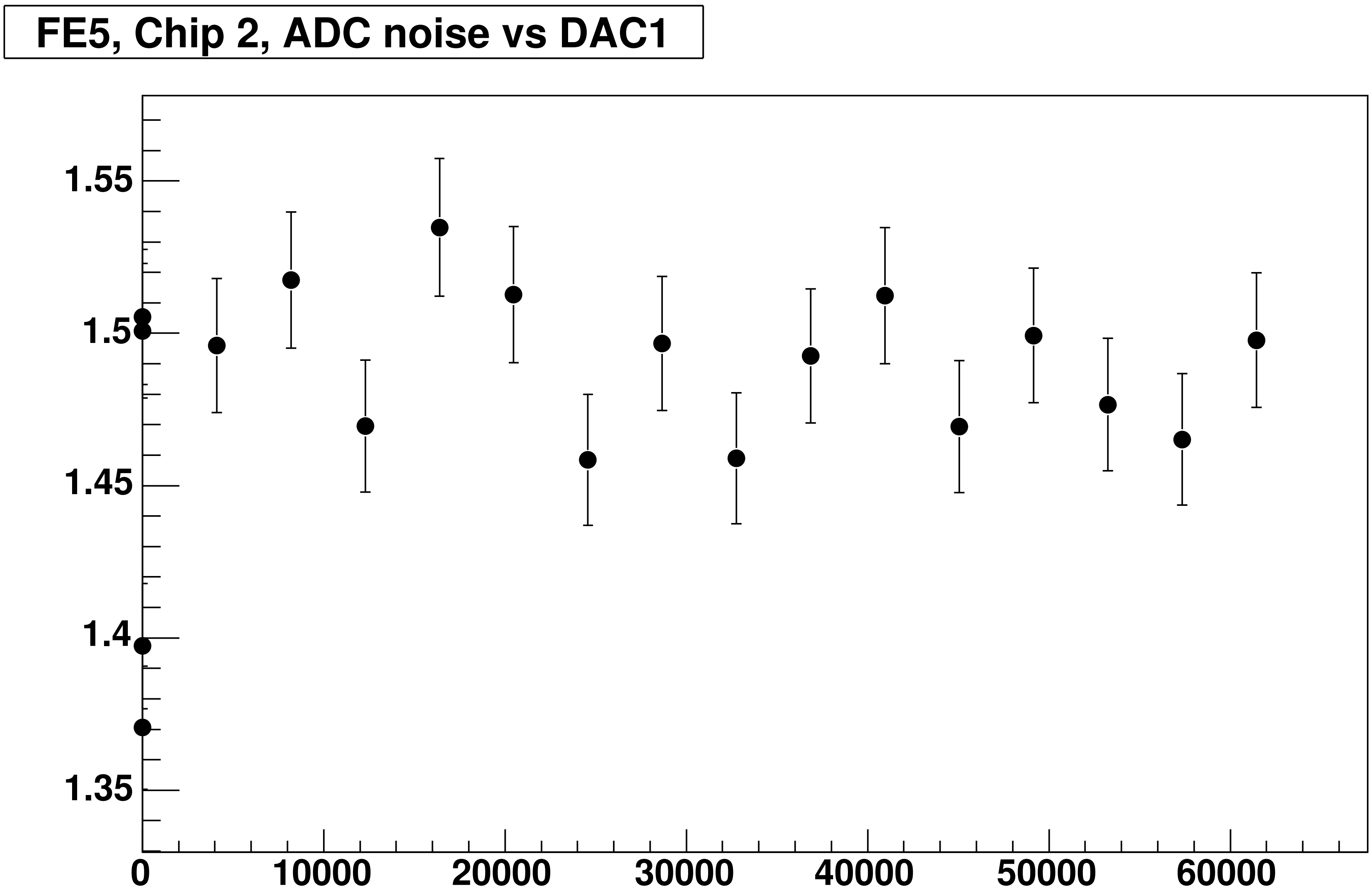


FE5, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1.028e+04 / 11
p0 4.805 ± 0.02145
p1 0.4509 ± 6.931e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

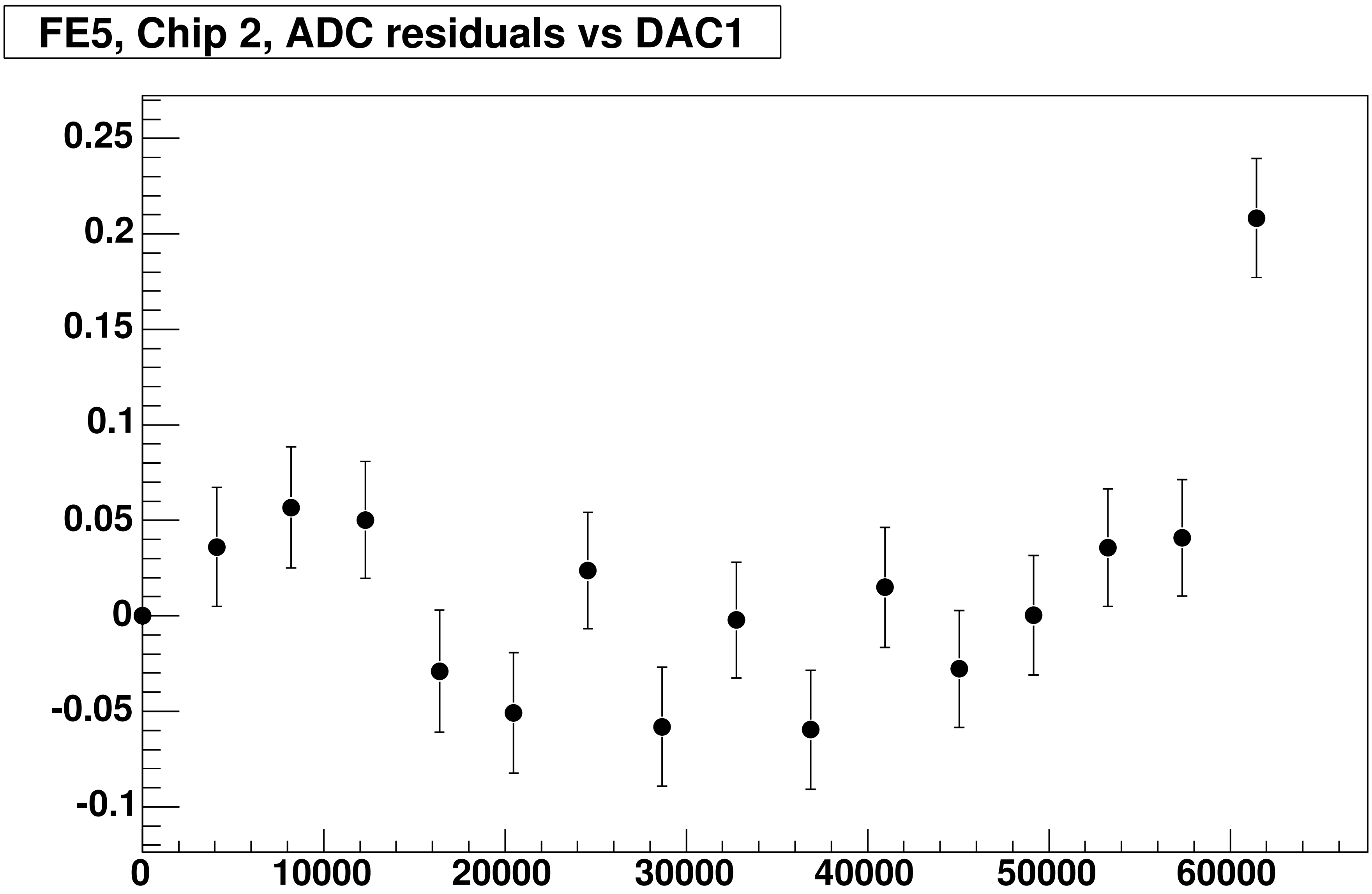

FE5, Chip 2, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 2, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

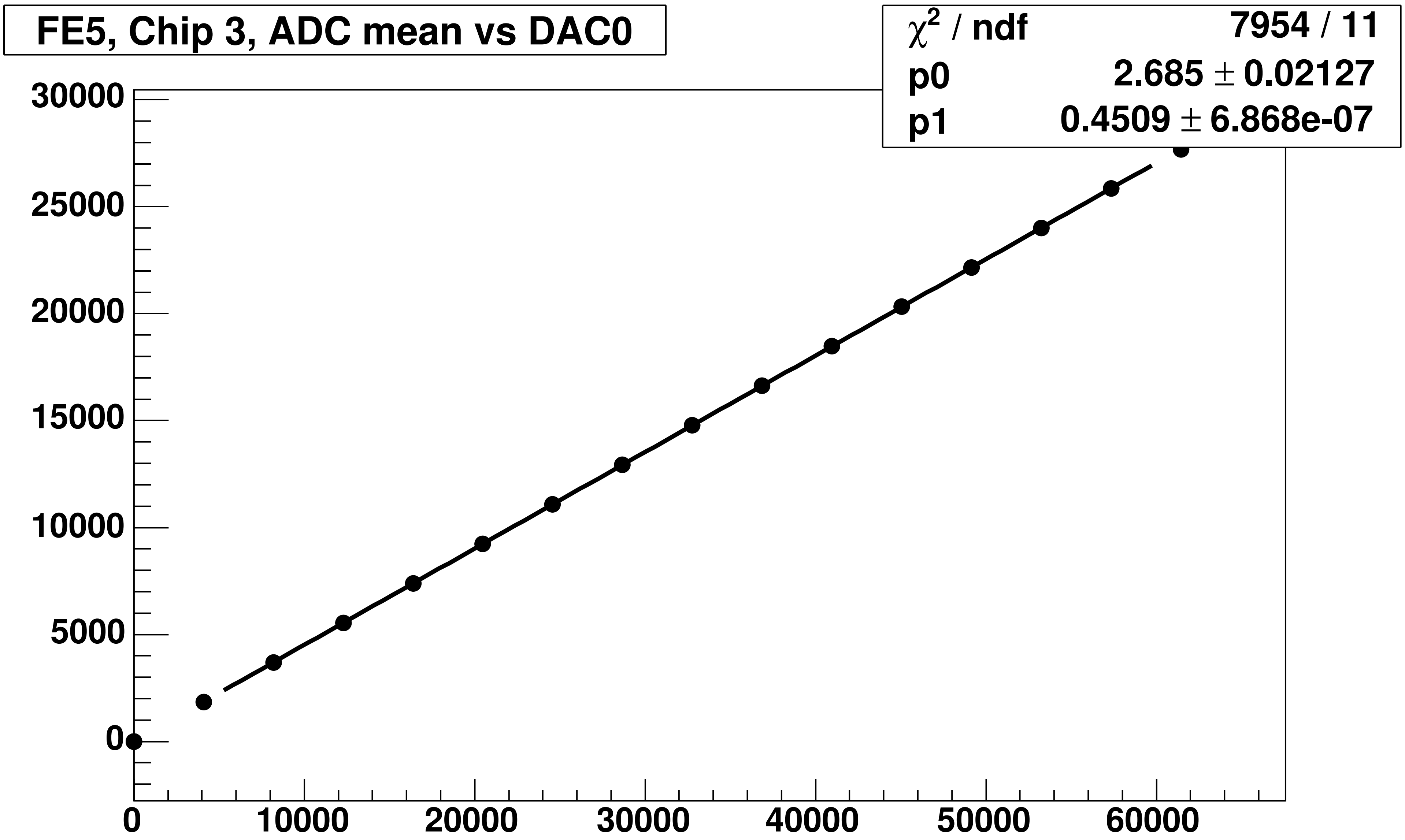

FE5, Chip 2, ADC mean vs DAC1
χ^2 / ndf 21.27 / 11
p0 2.217 ± 0.02041
p1 -2.853e-07 ± 5.618e-07
4
2
0
-2
-4
-6
-8
-10
-12
-14
0
10000
20000
30000
40000
50000
60000

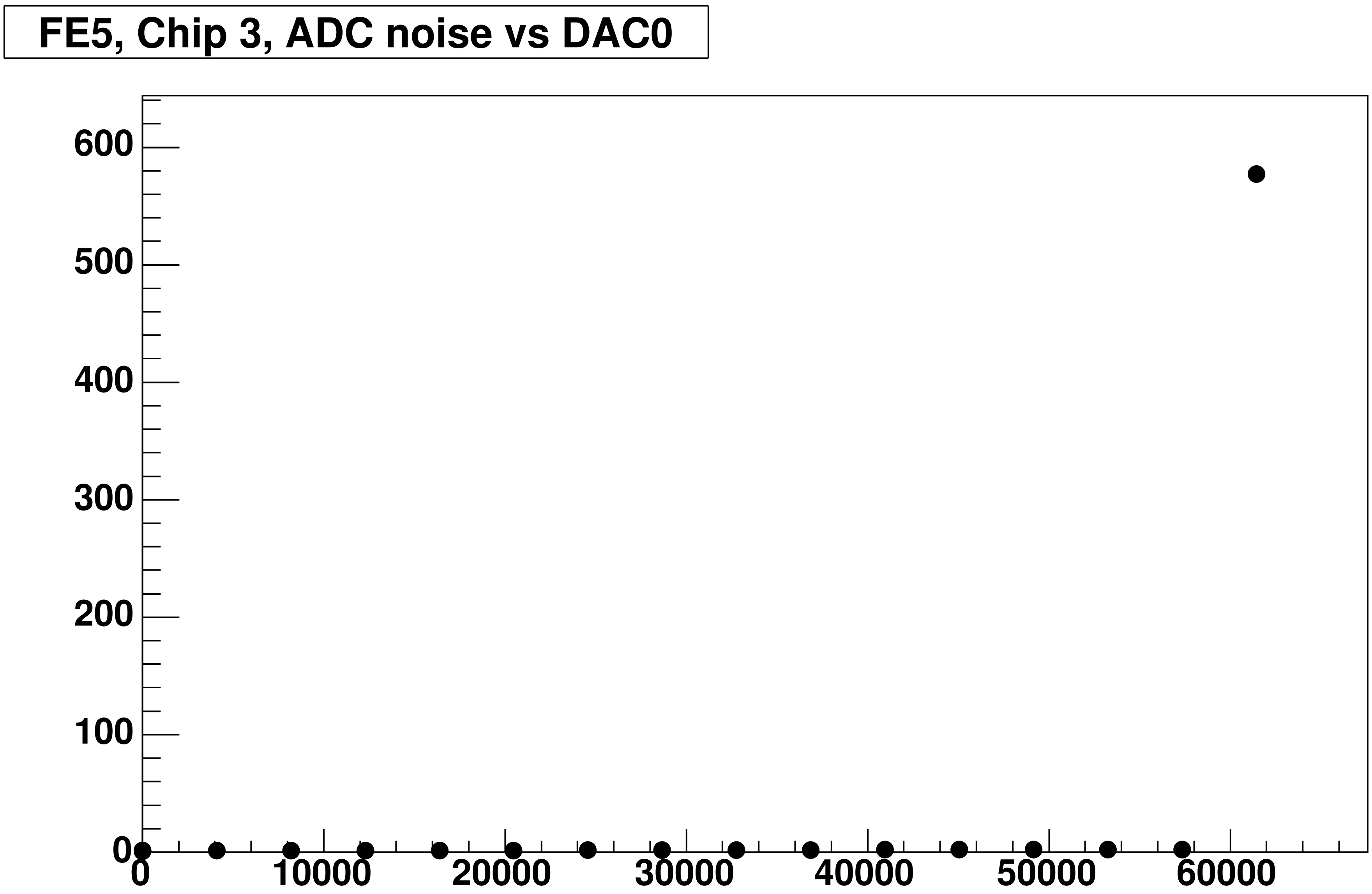


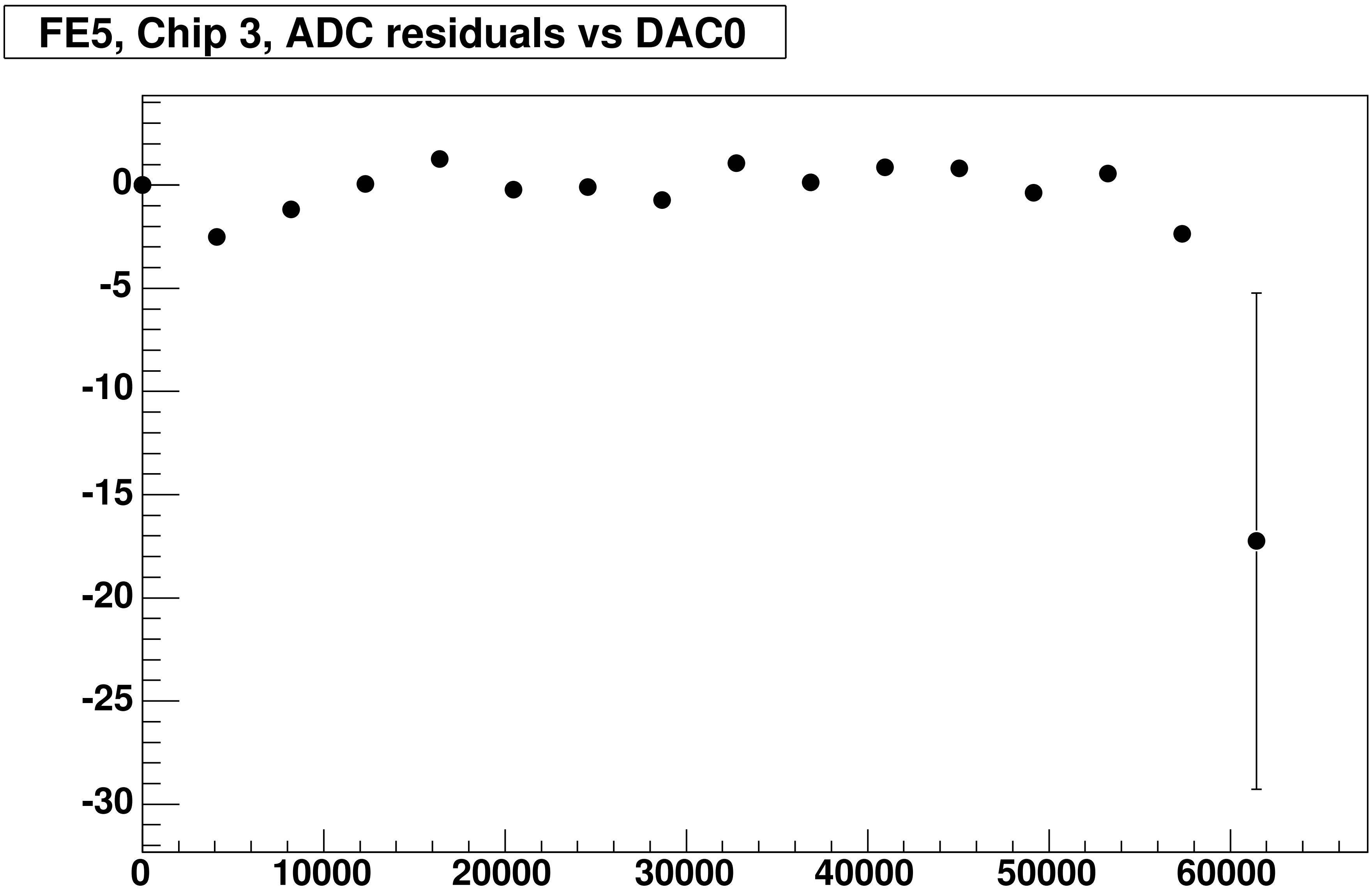
FE5, Chip 2, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

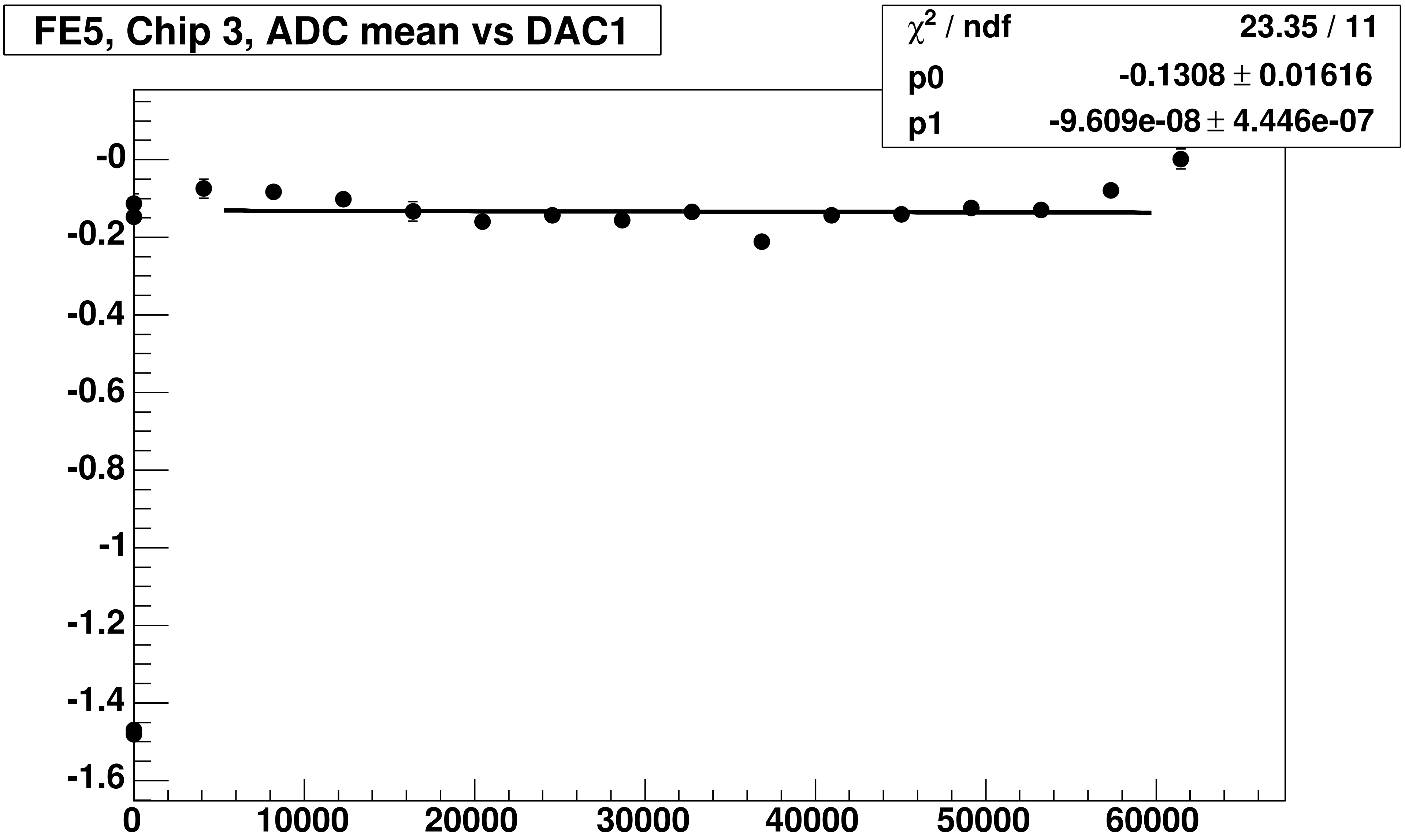


FE5, Chip 2, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

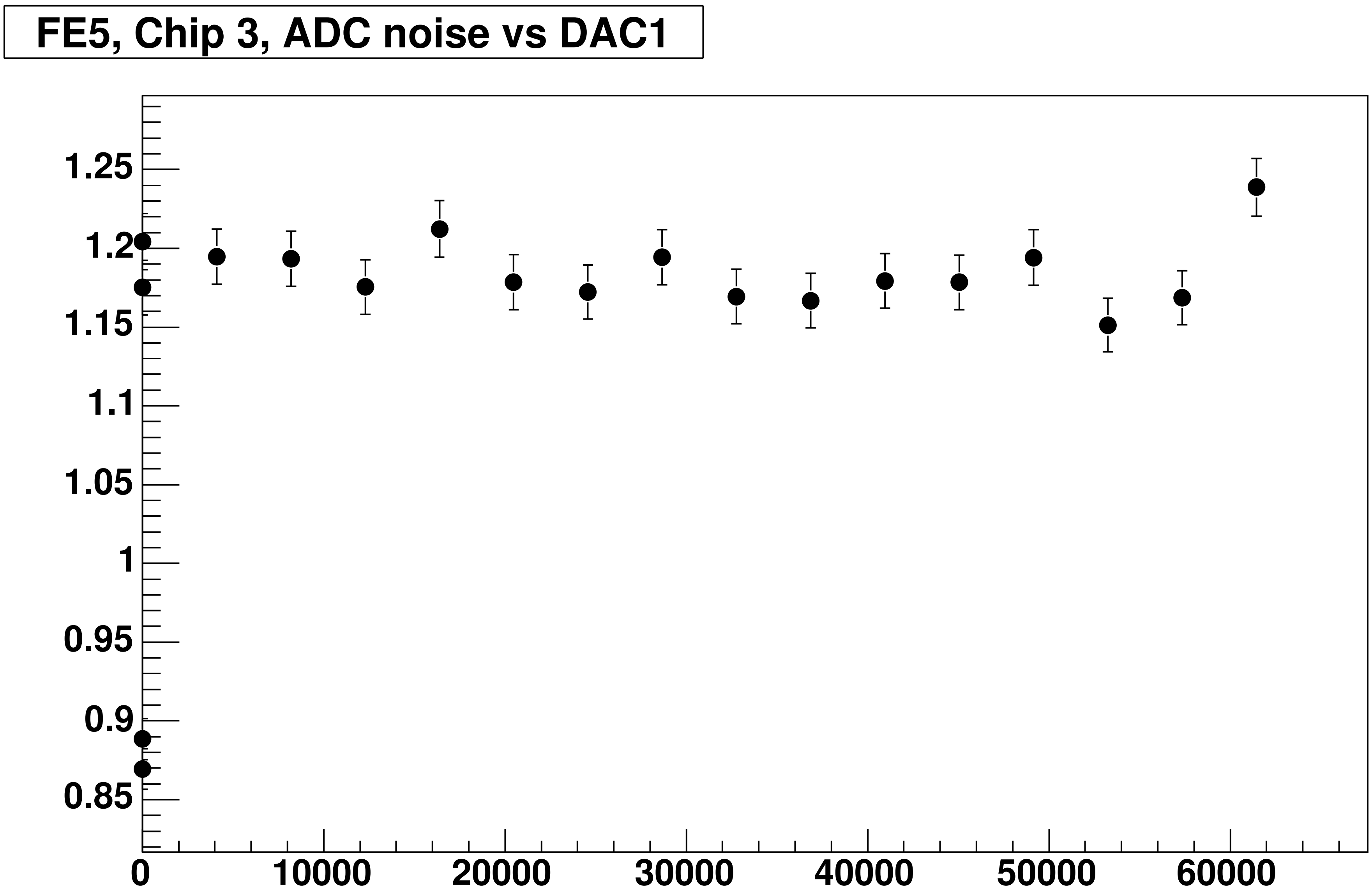

FE5, Chip 3, ADC mean vs DAC0
χ^2 / ndf 7954 / 11
p0 2.685 ± 0.02127
p1 0.4509 ± 6.868e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

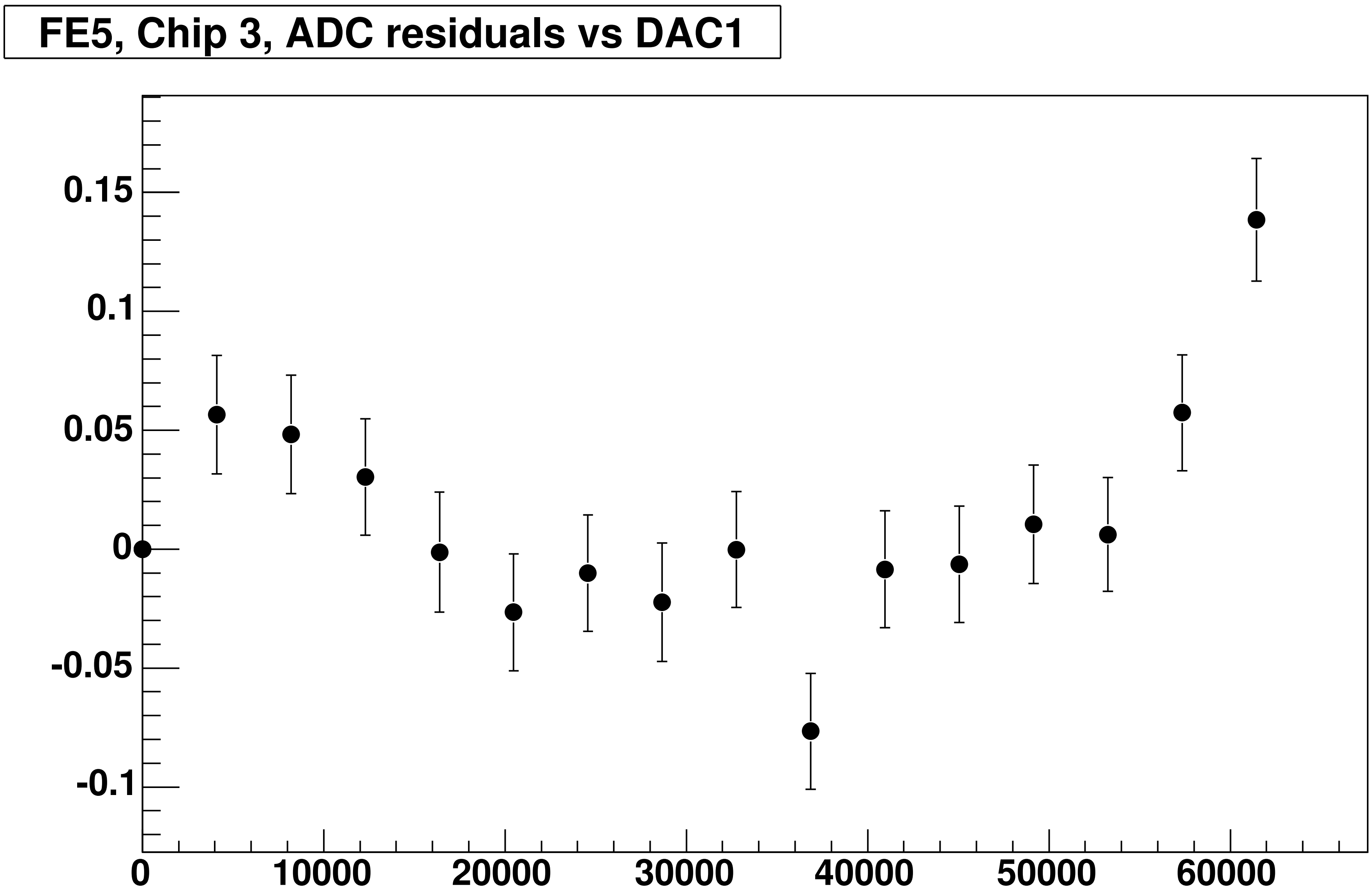

FE5, Chip 3, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 3, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

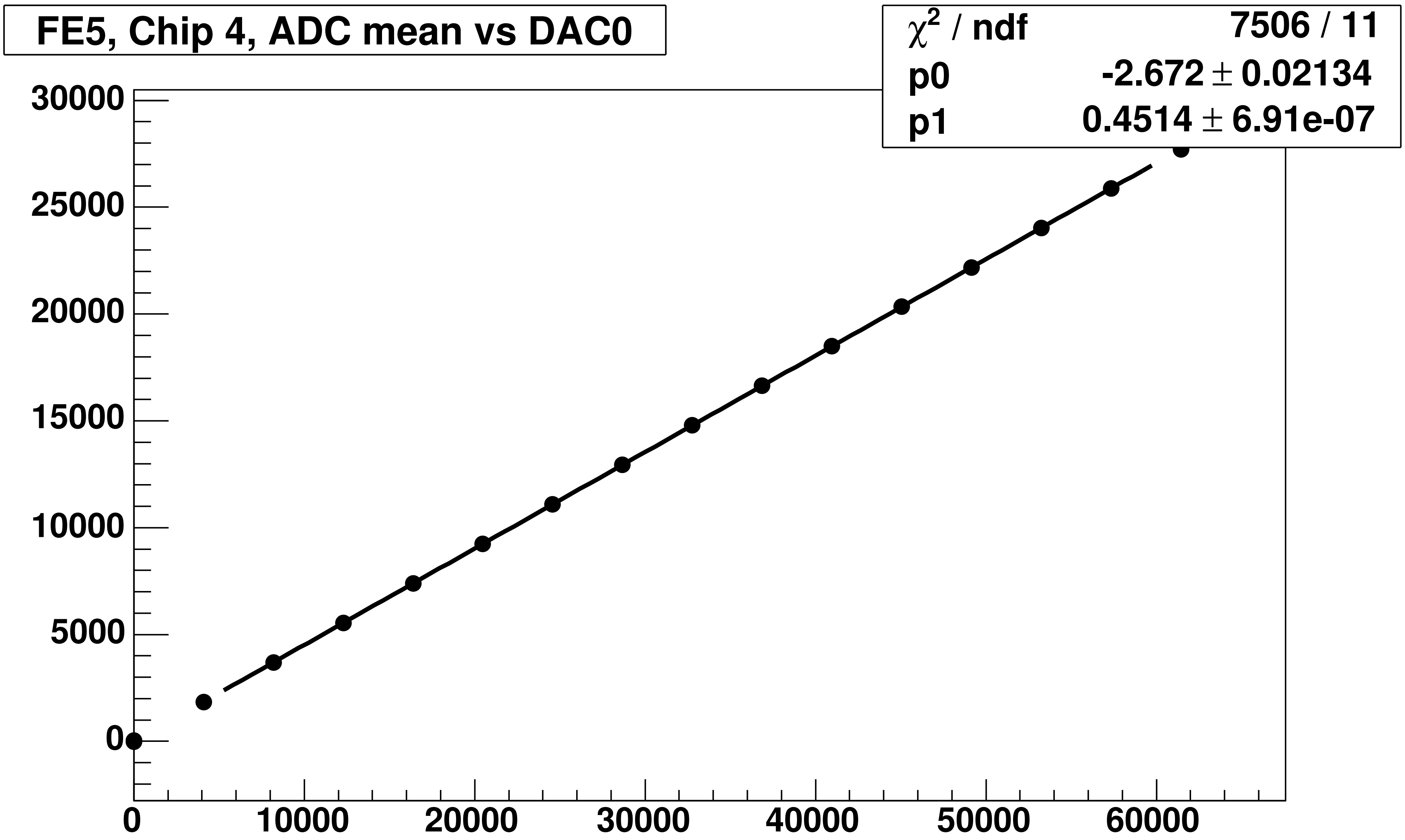


FE5, Chip 3, ADC mean vs DAC1
χ^2 / ndf 23.35 / 11
p0 -0.1308 ± 0.01616
p1 -9.609e-08 ± 4.446e-07
-0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
0
10000
20000
30000
40000
50000
60000

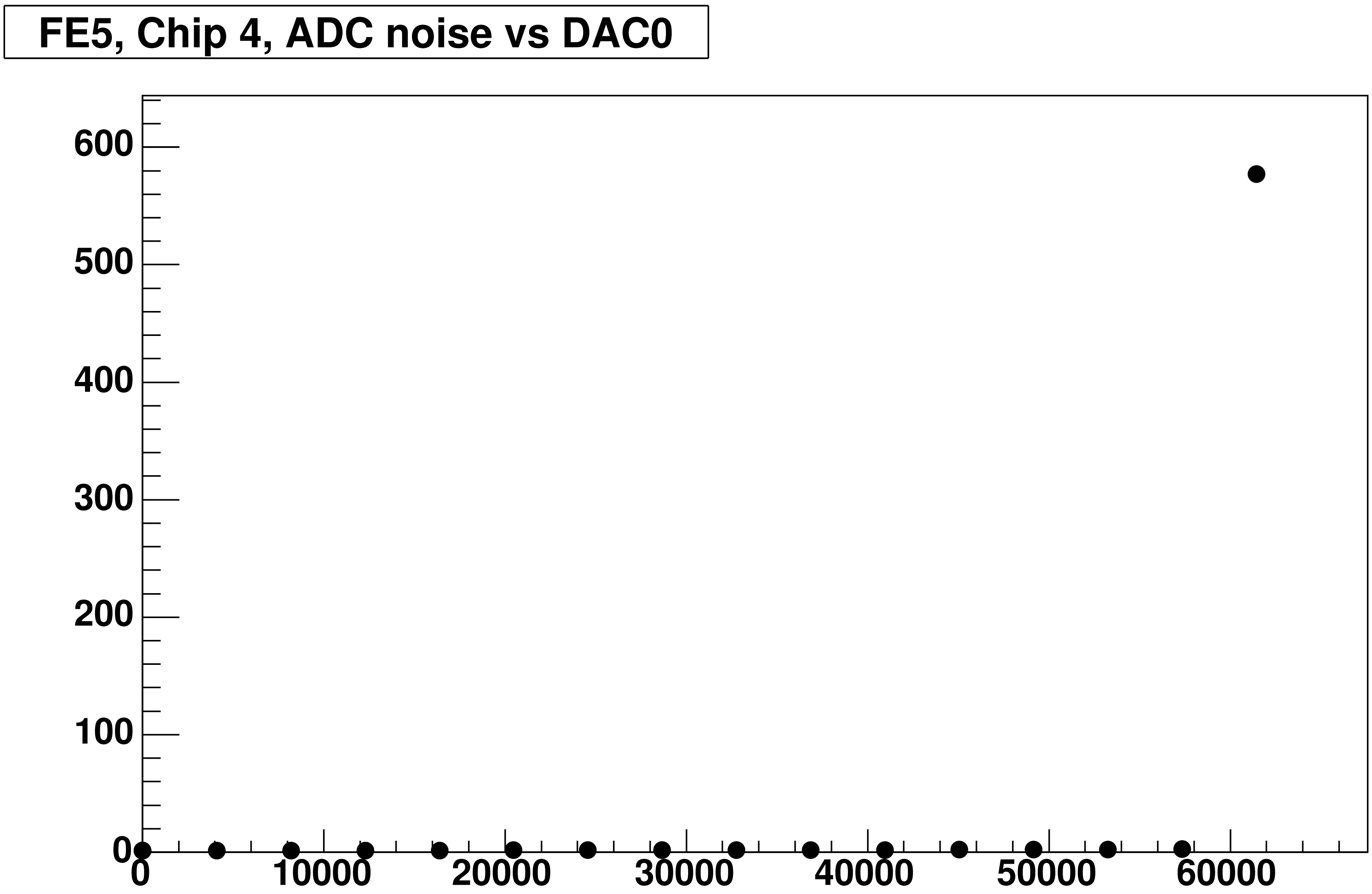

FE5, Chip 3, ADC noise vs DAC1
1.25
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0
10000
20000
30000
40000
50000
60000



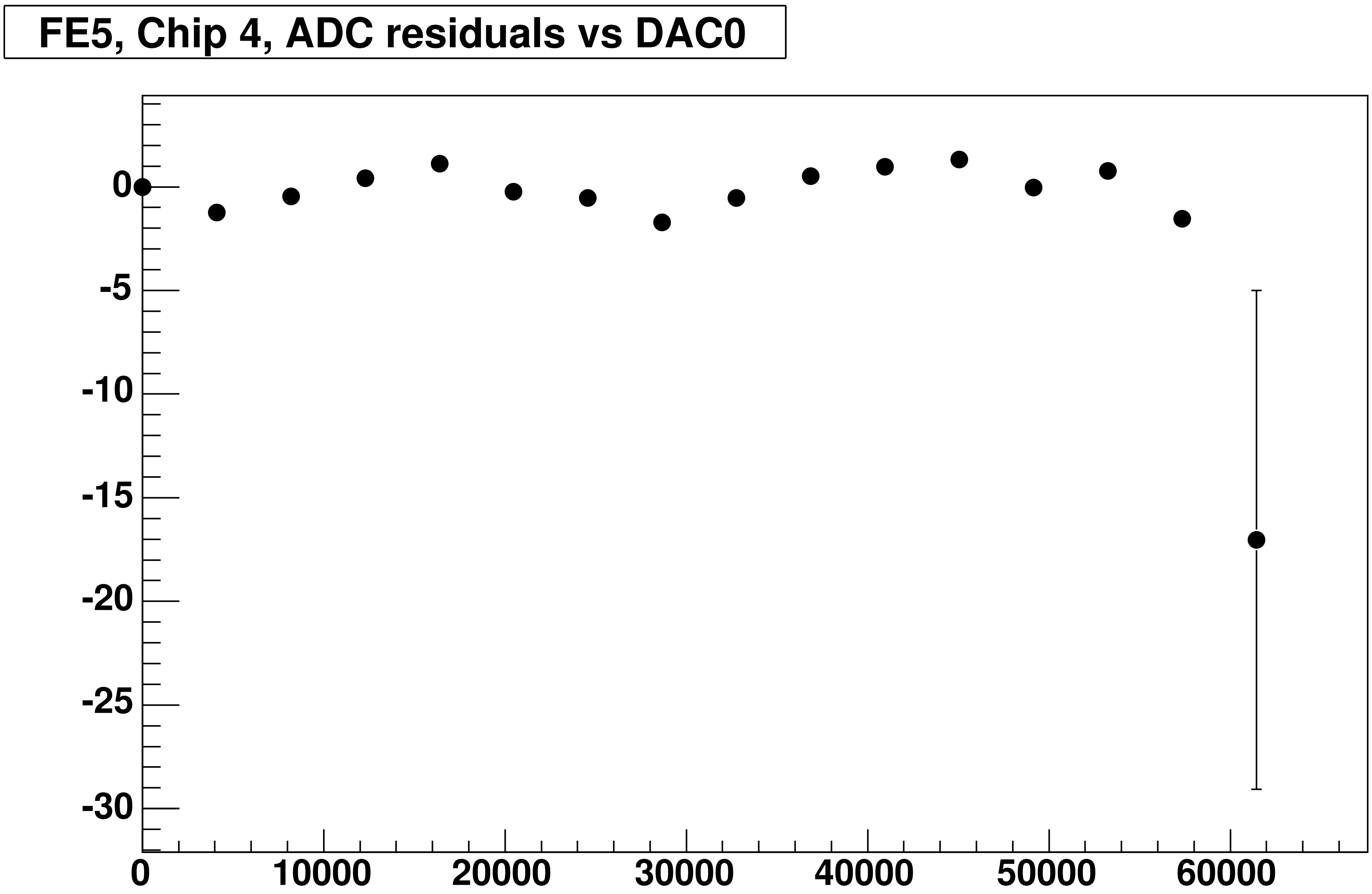
FE5, Chip 3, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000



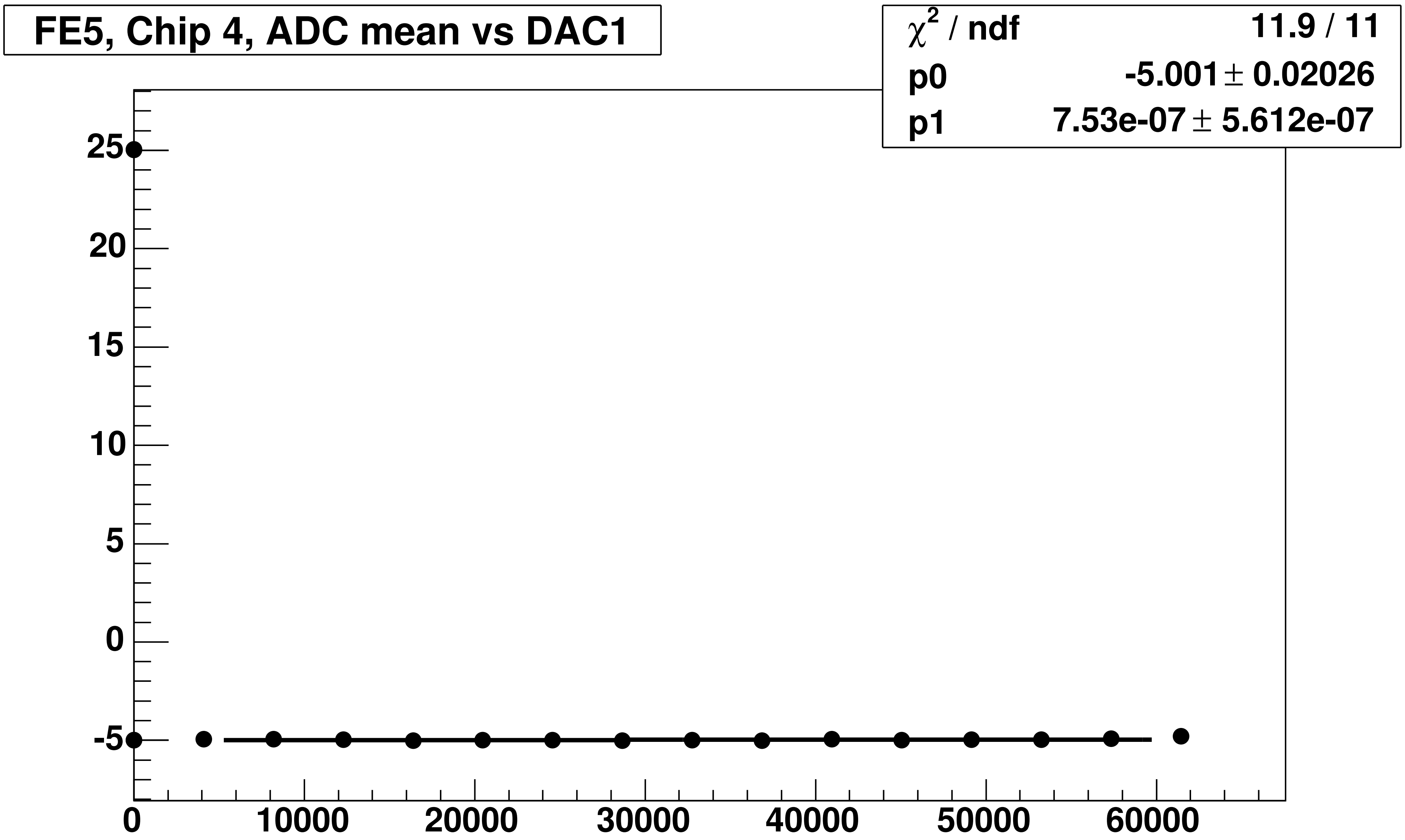
FE5, Chip 4, ADC mean vs DAC0
χ^2 / ndf 7506 / 11
p0 -2.672 ± 0.02134
p1 0.4514 ± 6.91e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



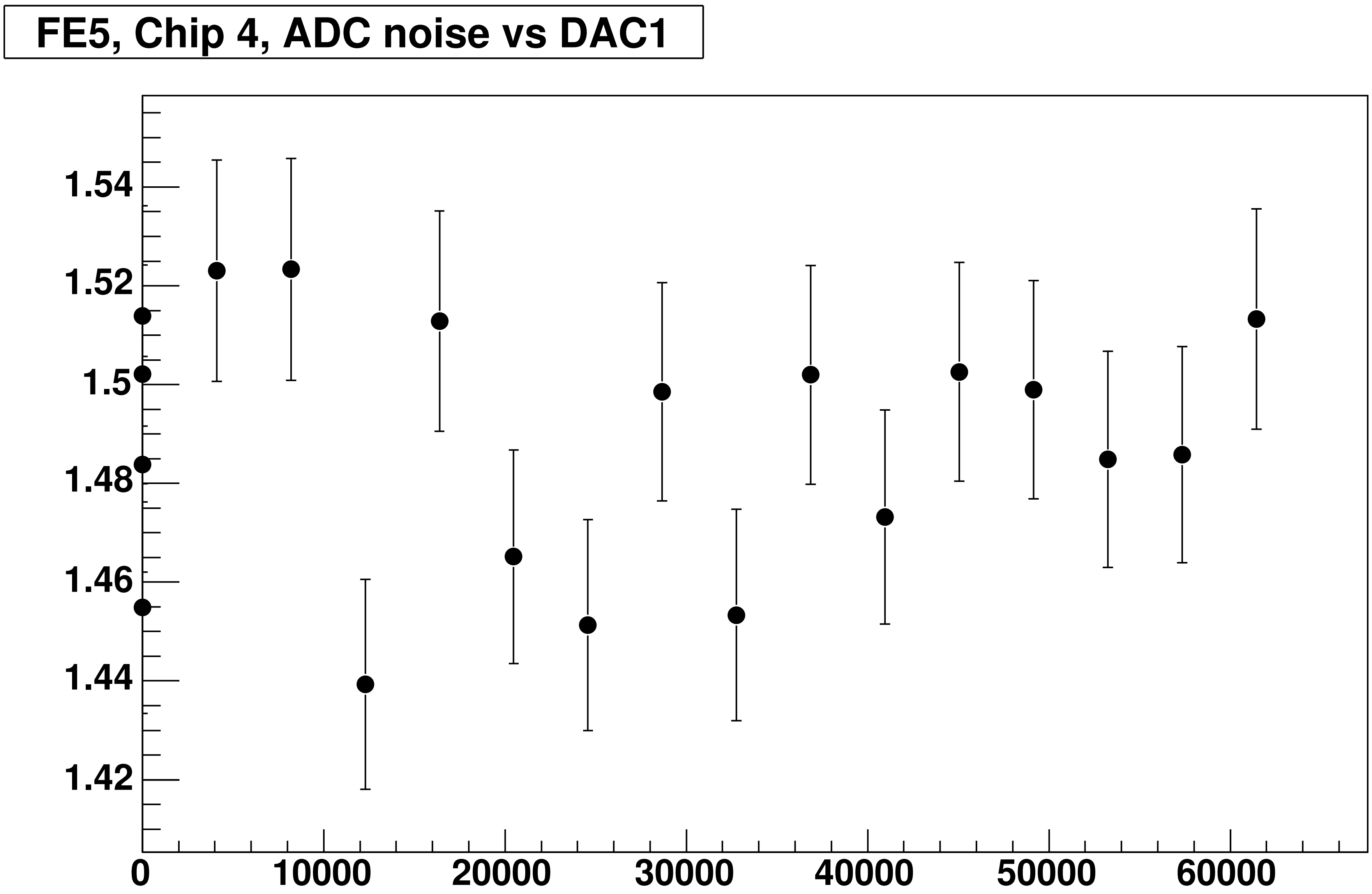
FE5, Chip 4, ADC noise vs DAC0
0
100
200
300
400
500
600
0
10000
20000
30000
40000
50000
60000



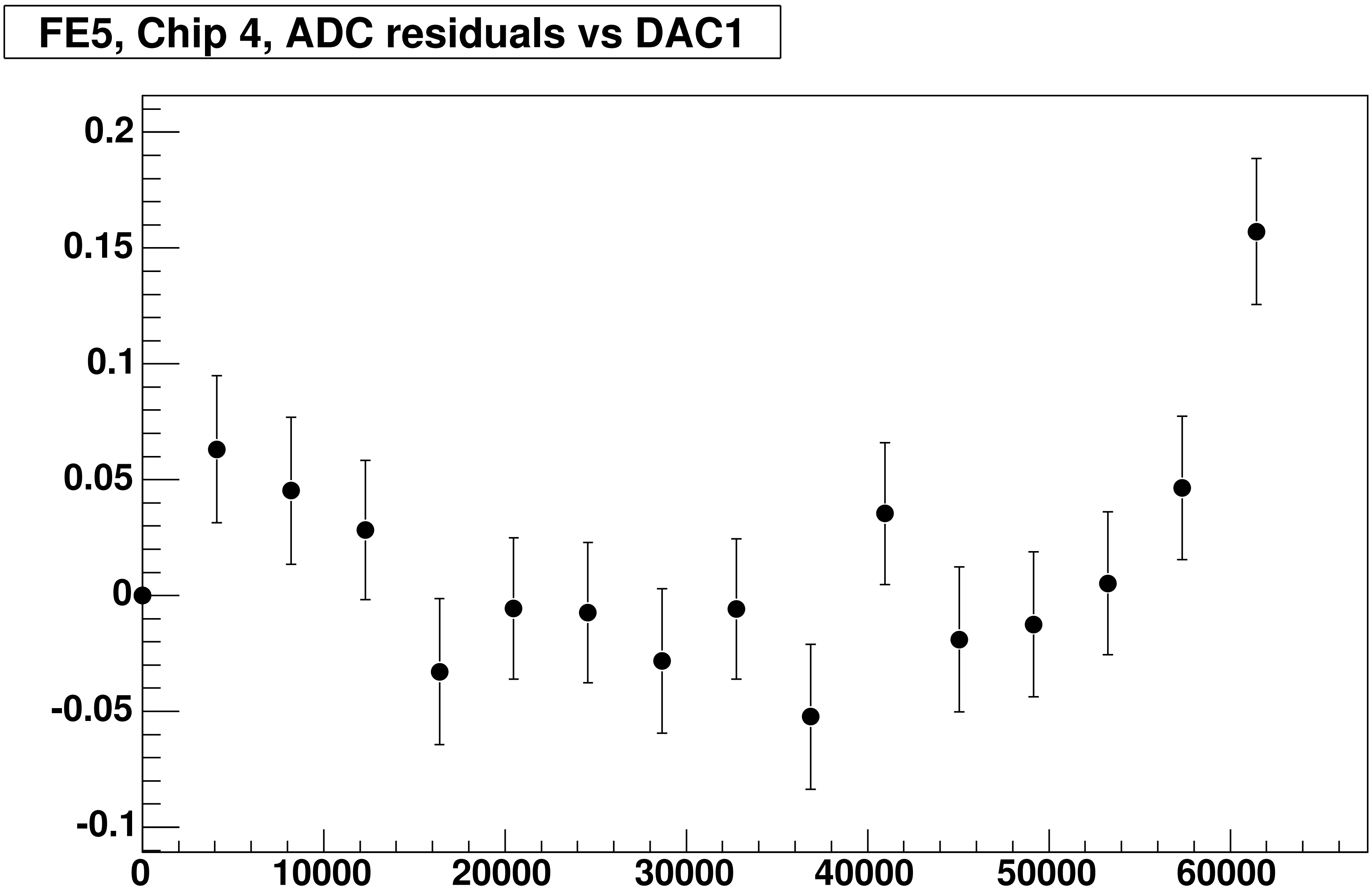
FE5, Chip 4, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

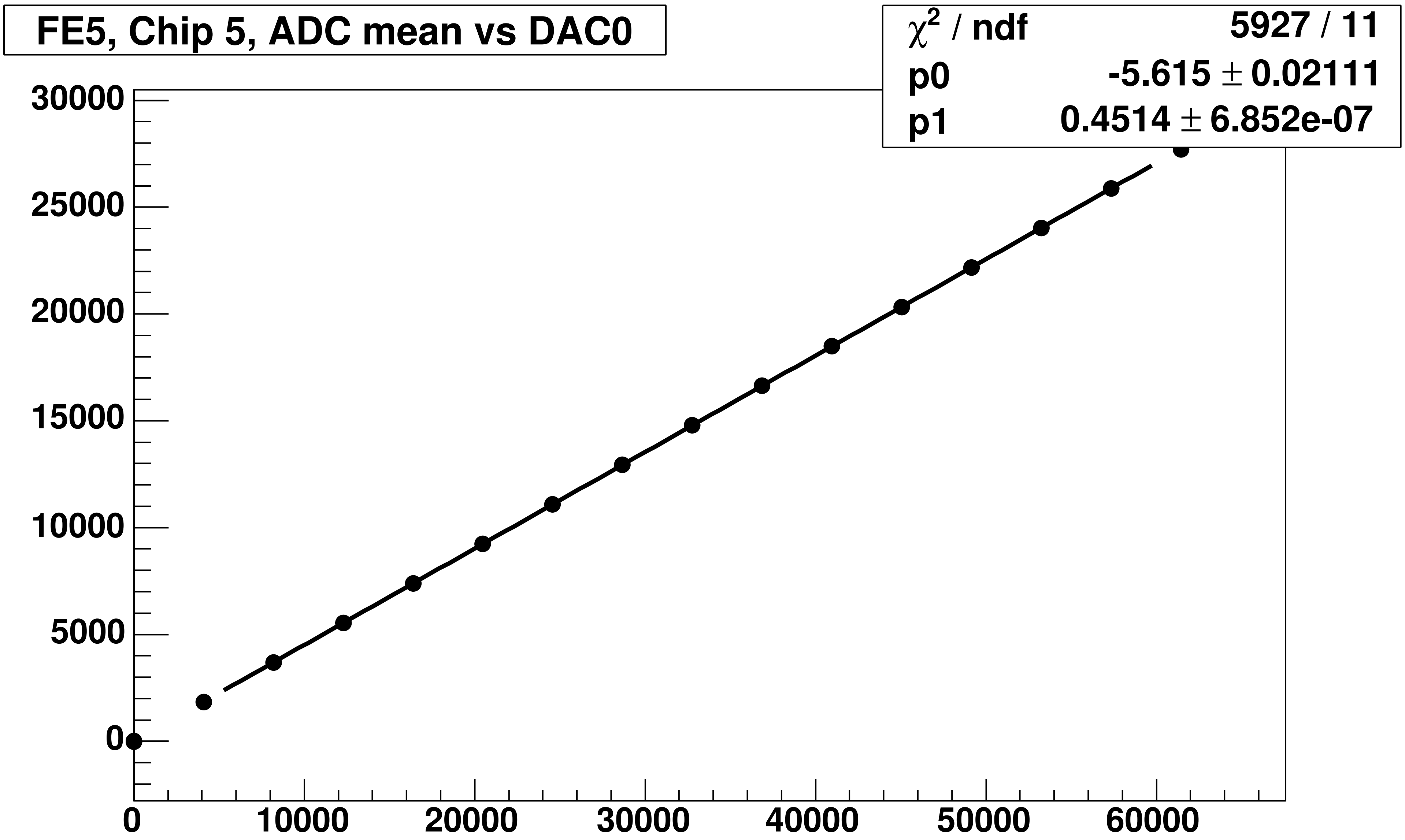


FE5, Chip 4, ADC mean vs DAC1
χ^2 / ndf 11.9 / 11
p0 -5.001 ± 0.02026
p1 7.53e-07 ± 5.612e-07
25
20
15
10
5
0
-5
0
10000
20000
30000
40000
50000
60000

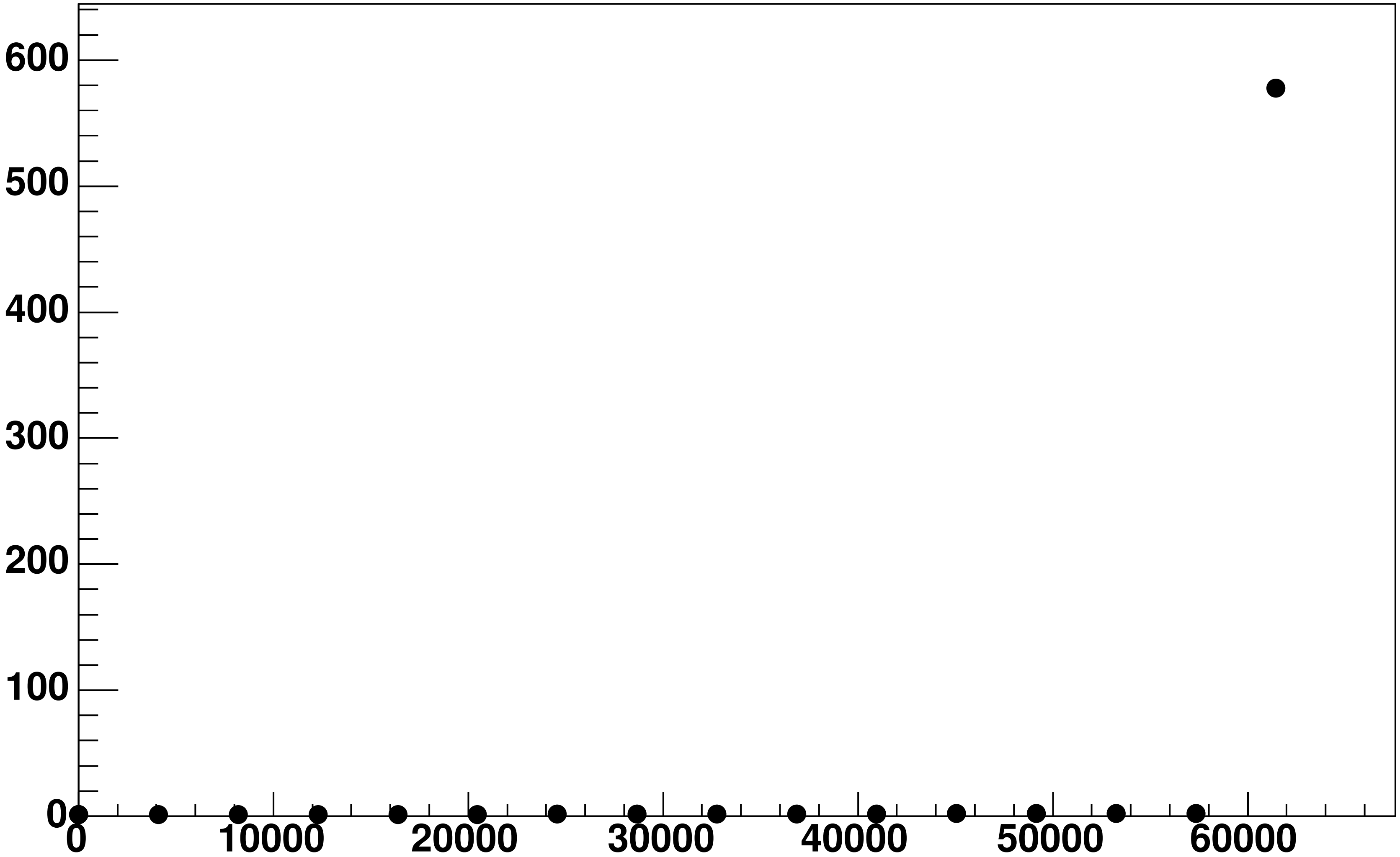


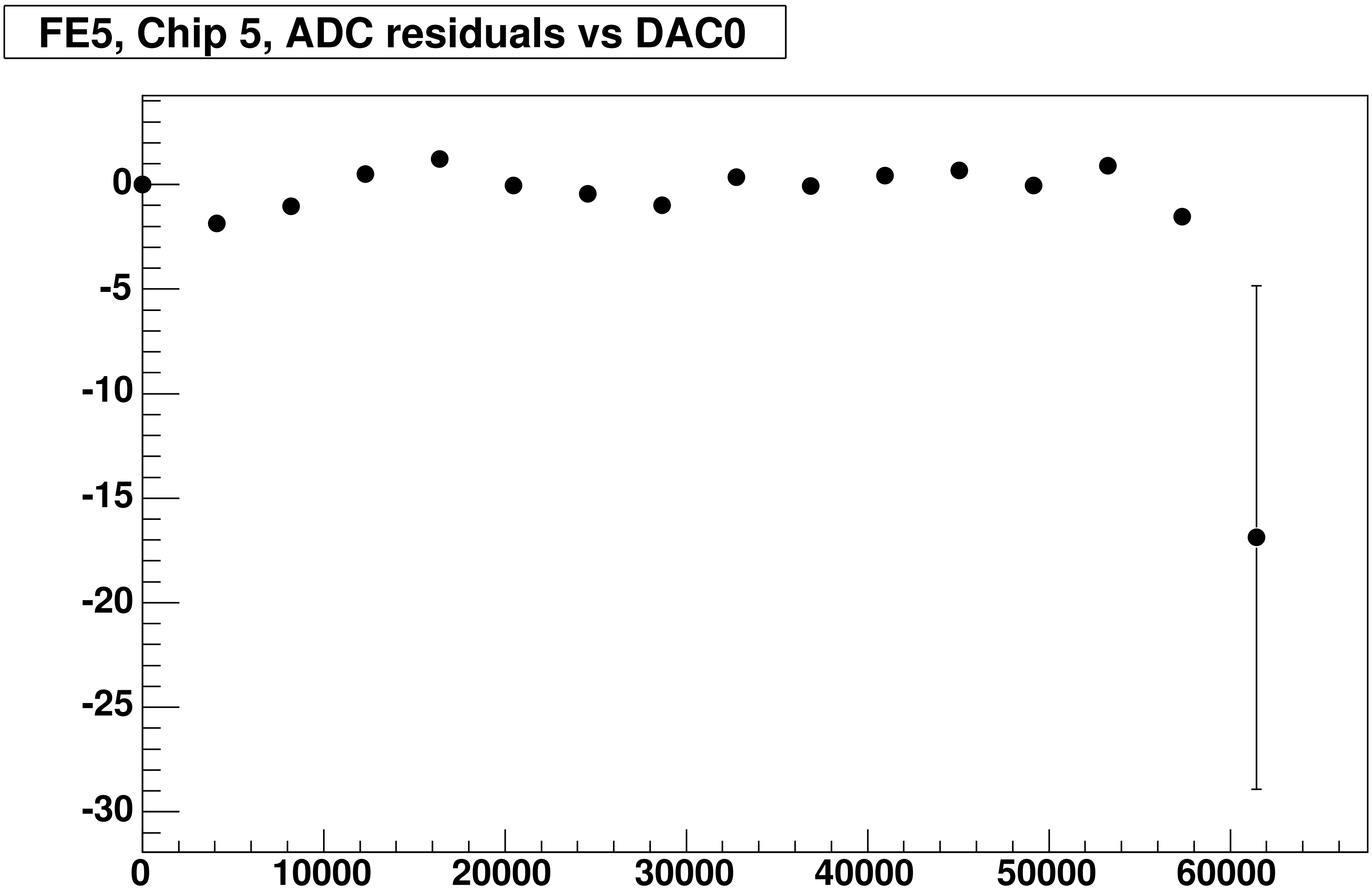
FE5, Chip 4, ADC noise vs DAC1
1.54
1.52
1.5
1.48
1.46
1.44
1.42
0
10000
20000
30000
40000
50000
60000

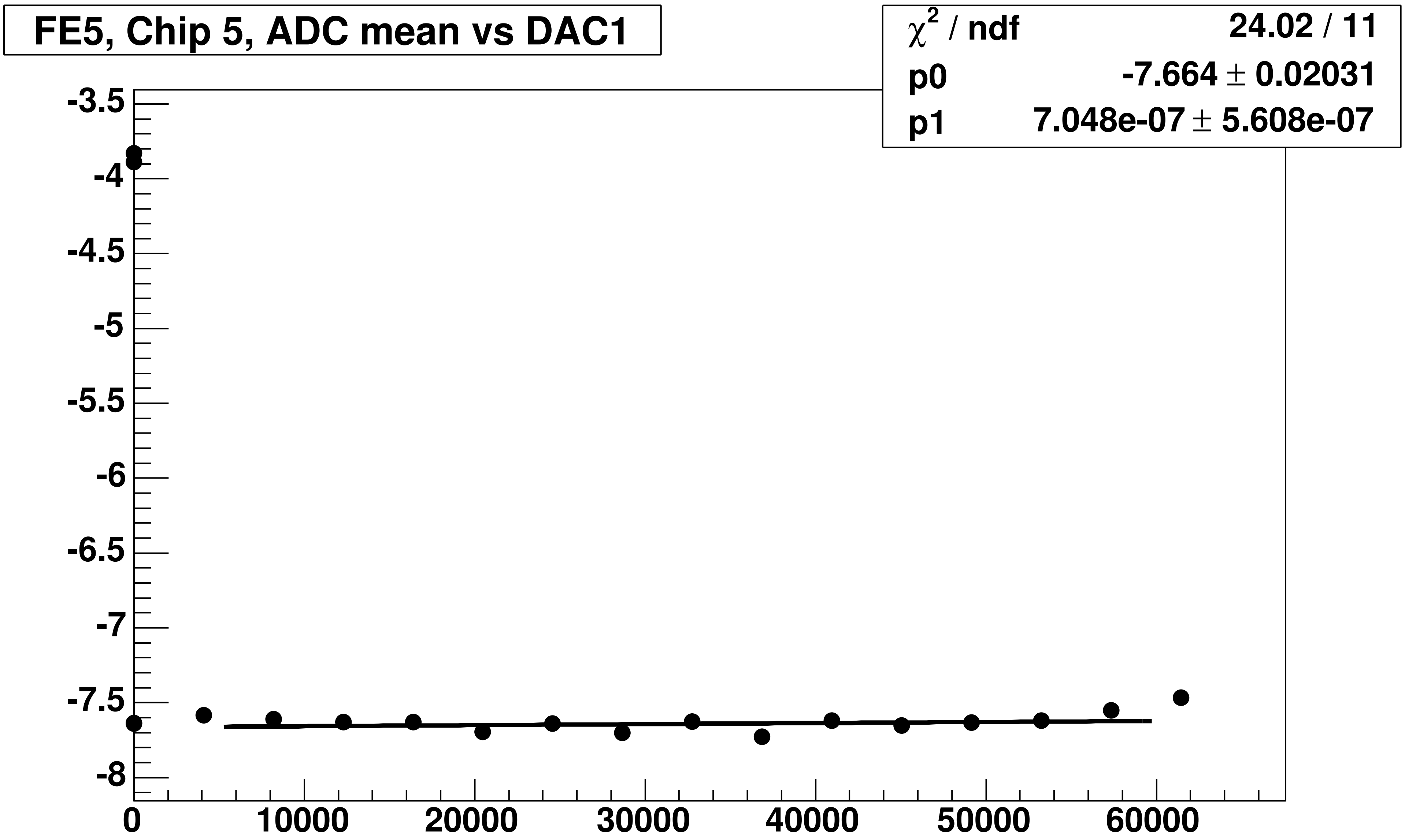

FE5, Chip 4, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

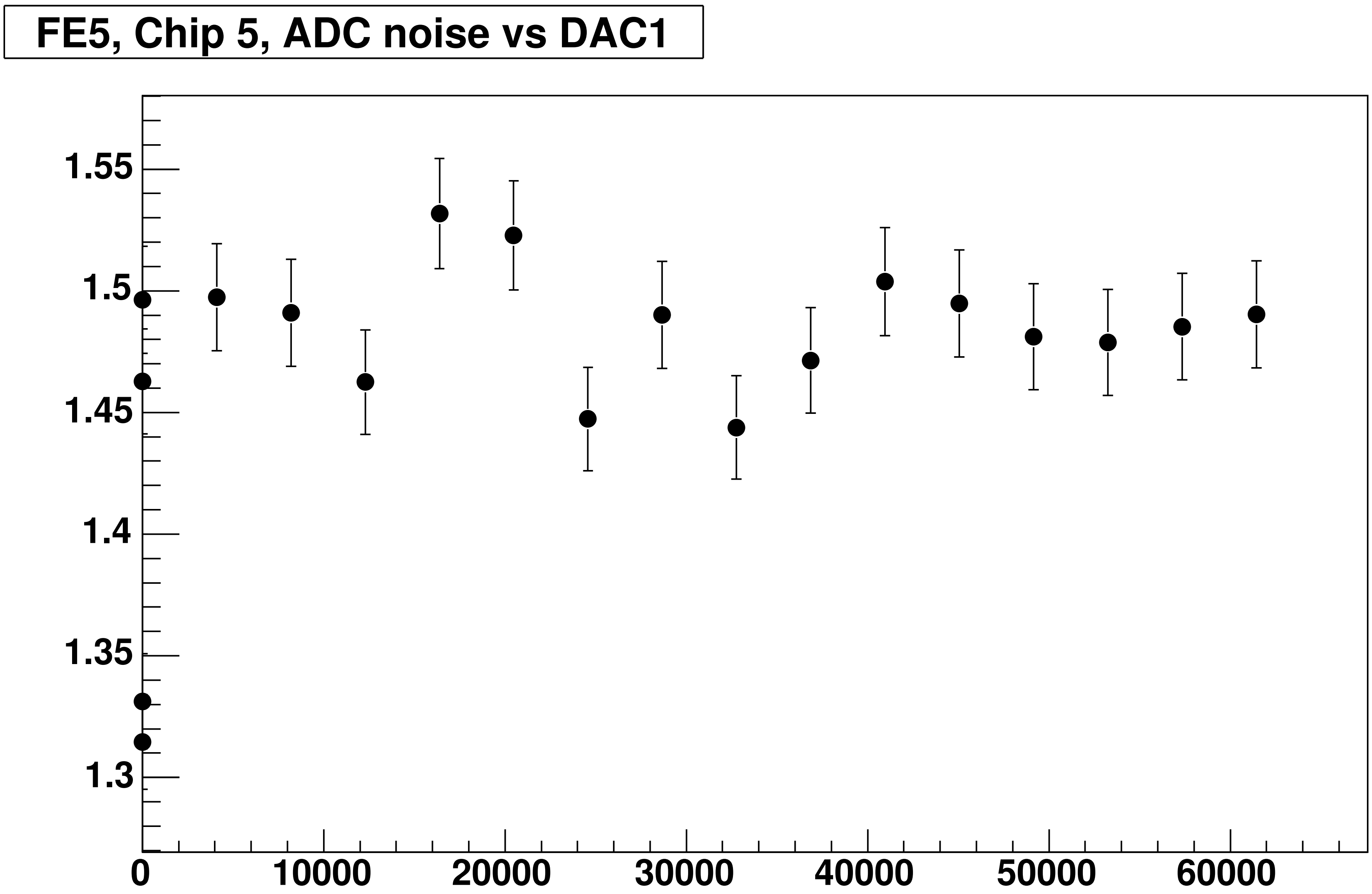

FE5, Chip 5, ADC mean vs DAC0
χ^2 / ndf 5927 / 11
p0 -5.615 ± 0.02111
p1 0.4514 ± 6.852e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

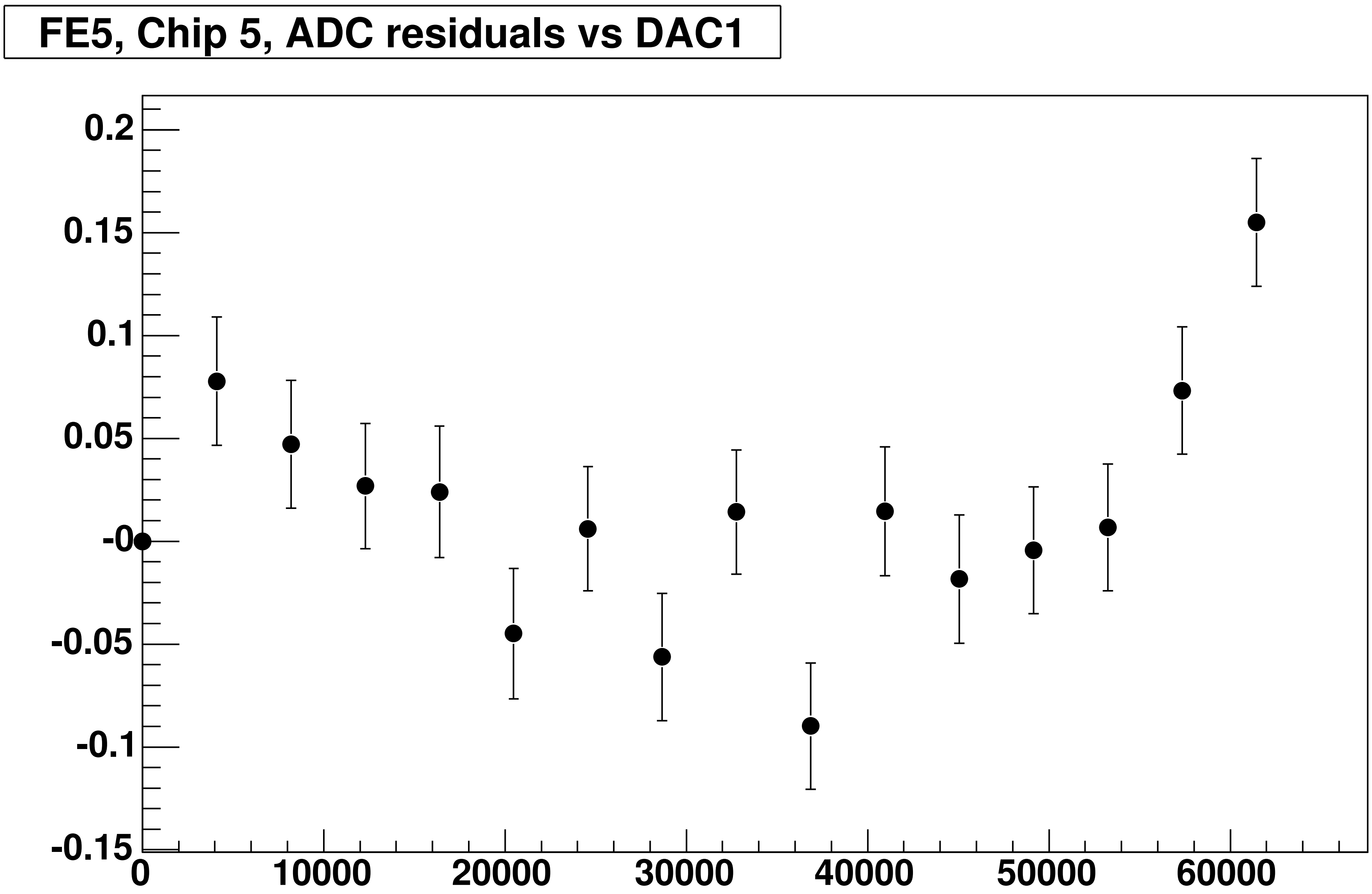
FE5, Chip 5, ADC noise vs DAC0

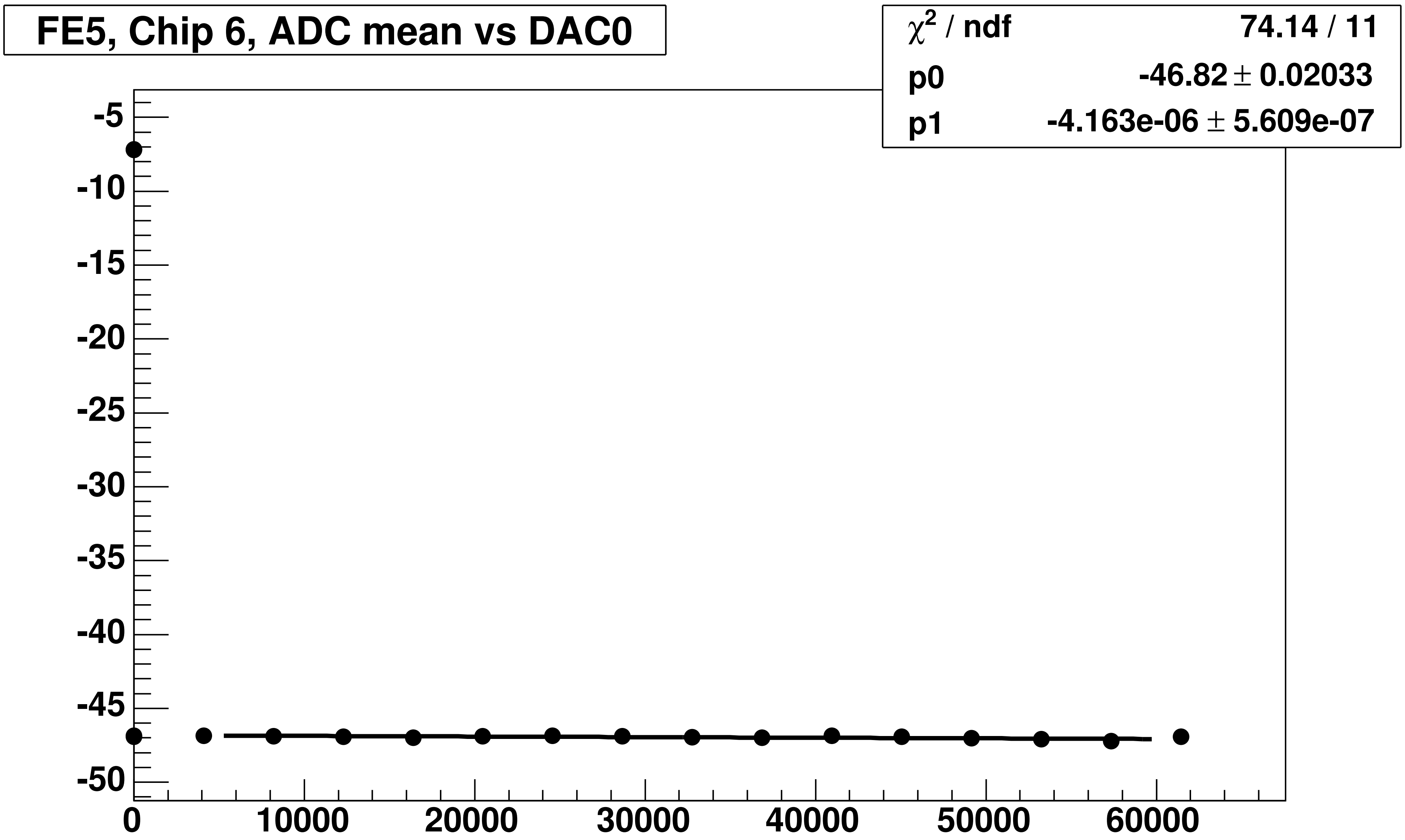



FE5, Chip 5, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

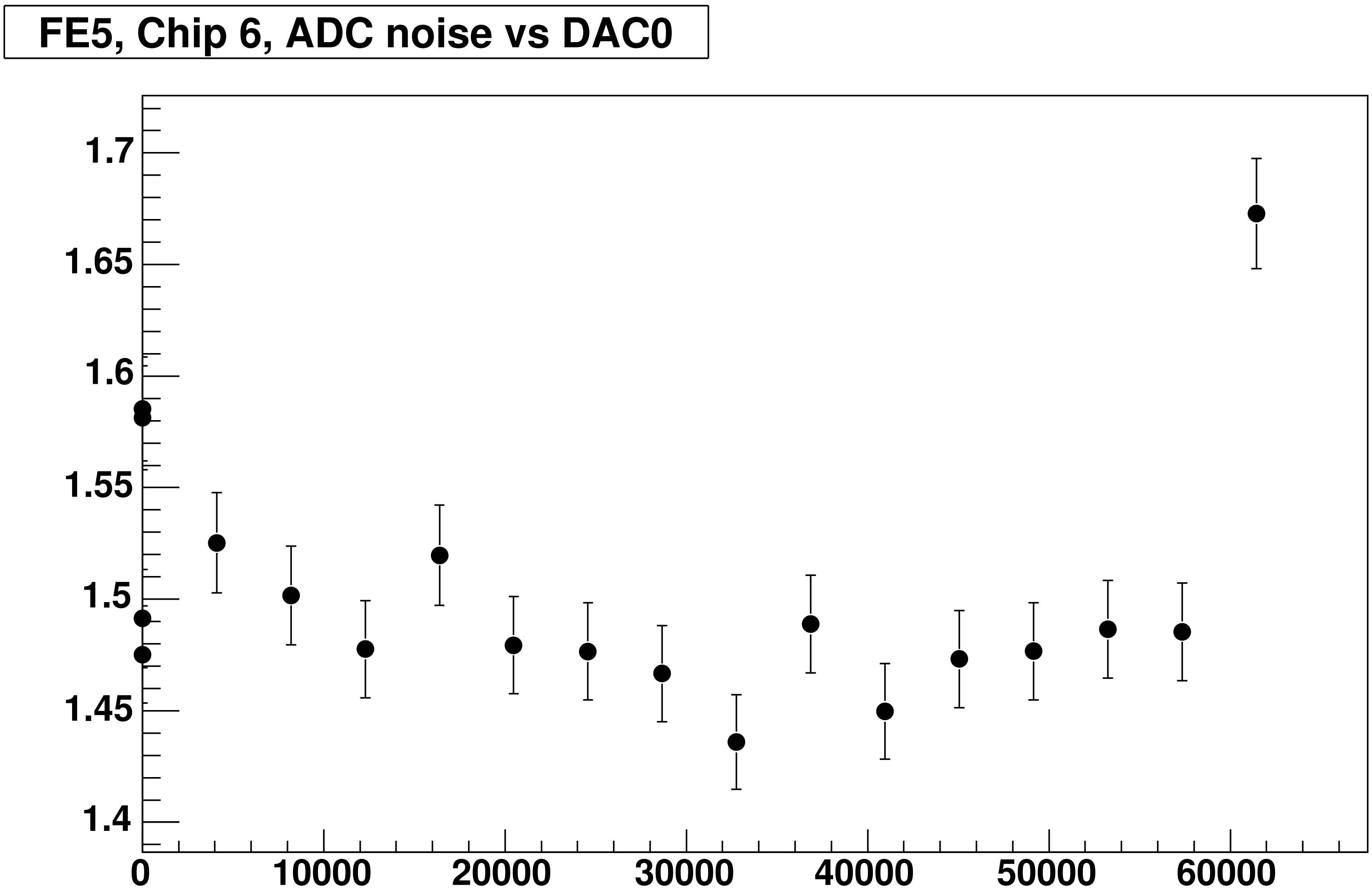

FE5, Chip 5, ADC mean vs DAC1
χ^2 / ndf 24.02 / 11
p0 -7.664 ± 0.02031
p1 7.048e-07 ± 5.608e-07
-3.5
-4
-4.5
-5
-5.5
-6
-6.5
-7
-7.5
-8
0
10000
20000
30000
40000
50000
60000

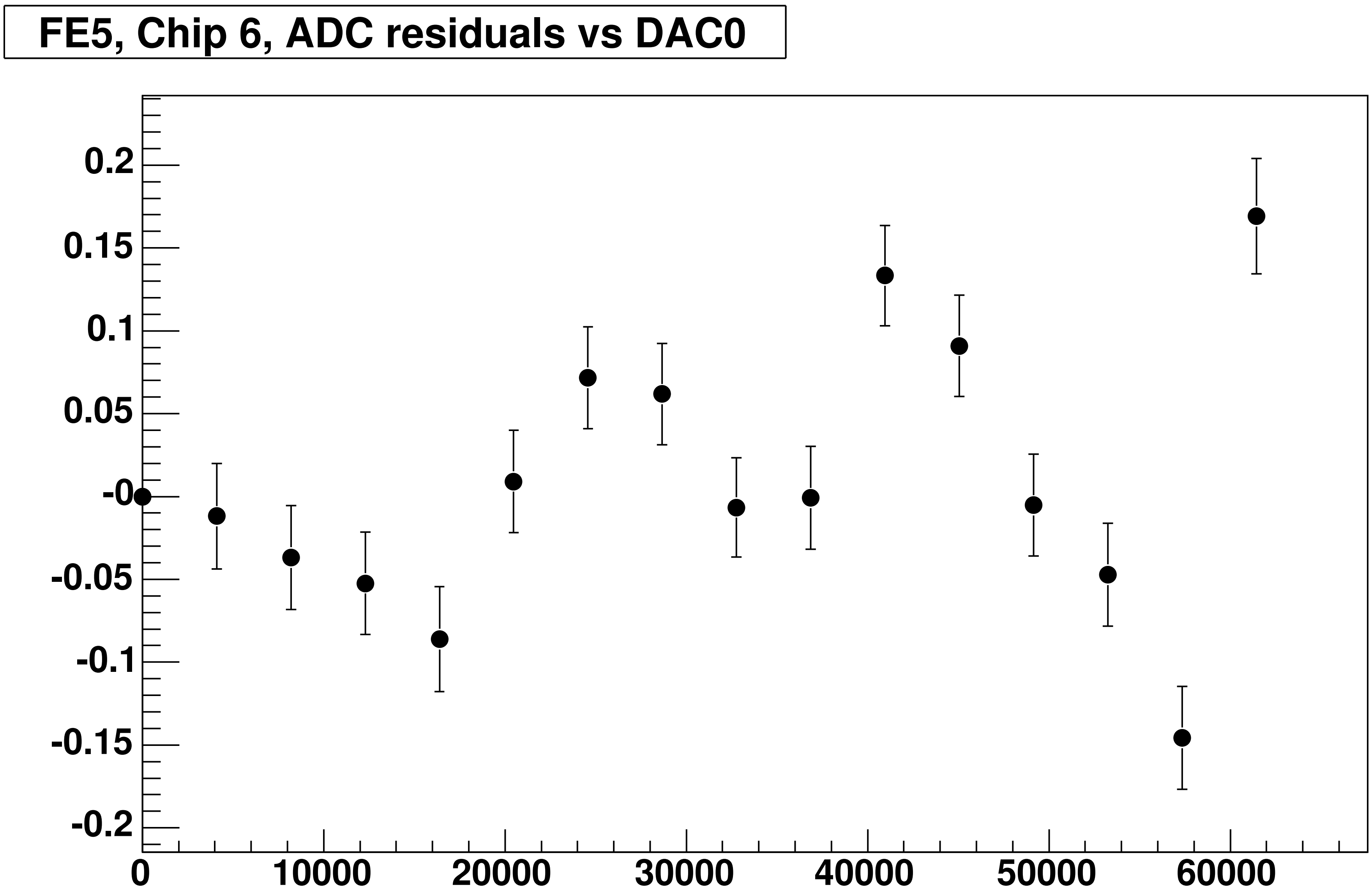

FE5, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

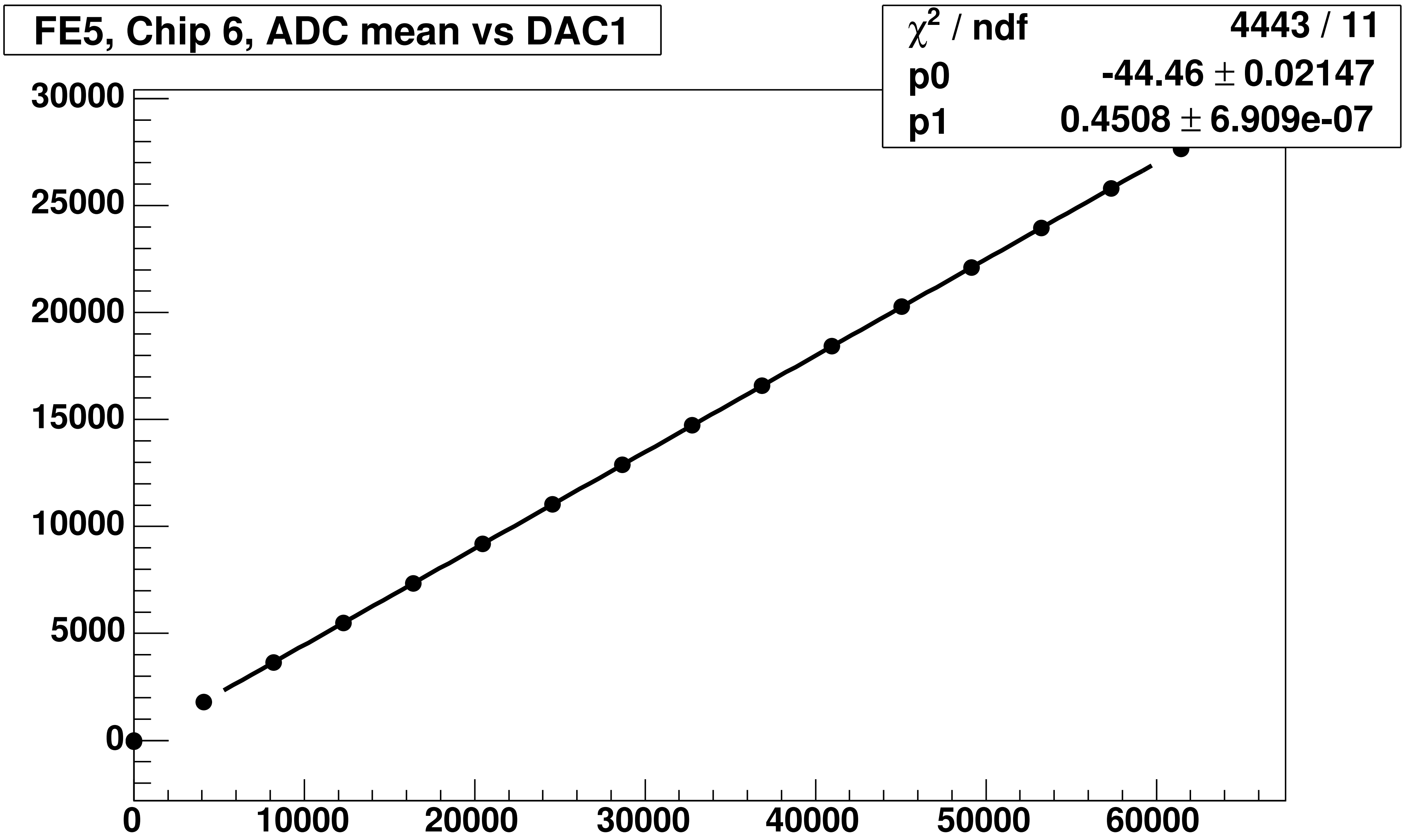

FE5, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

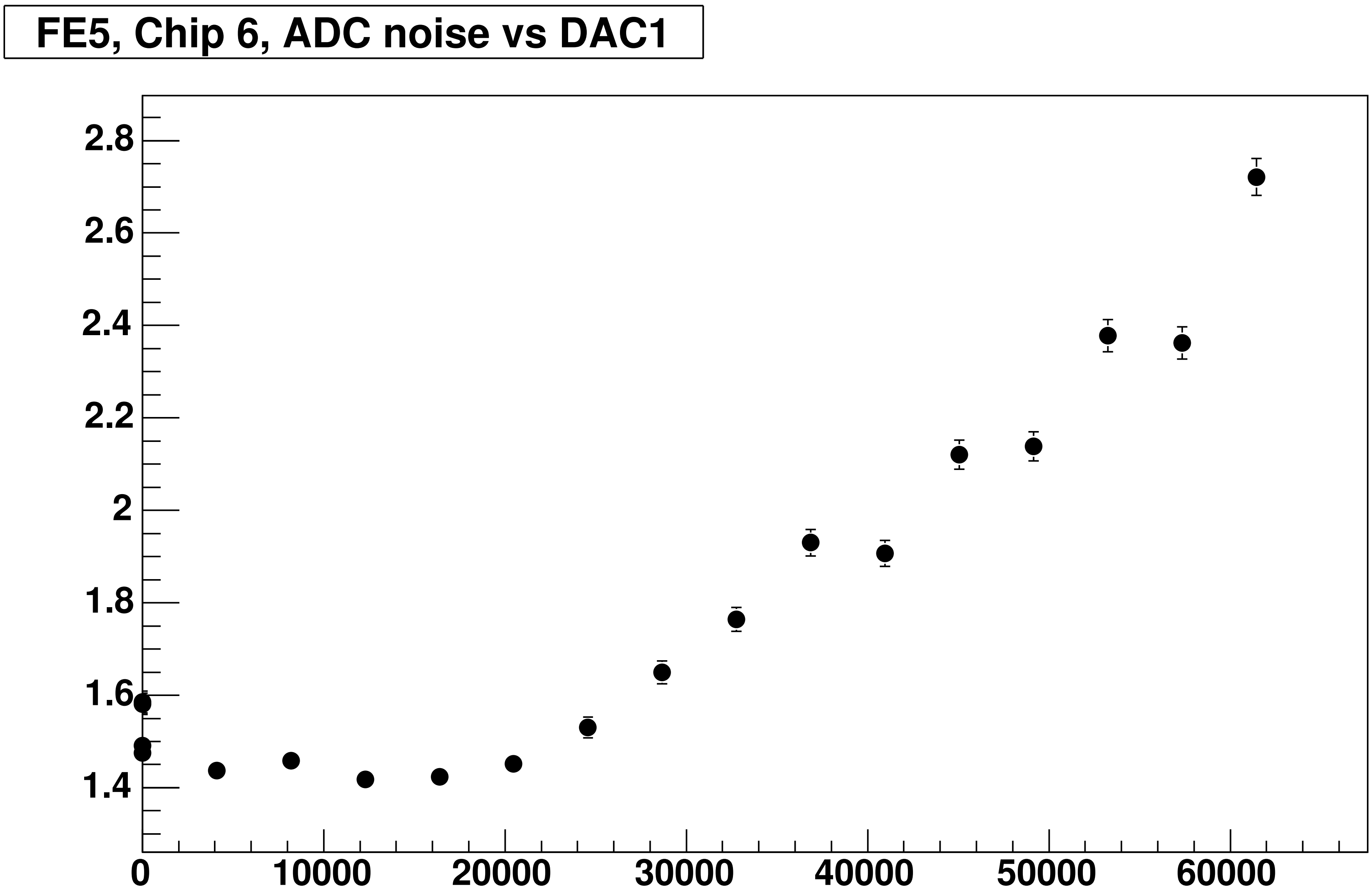


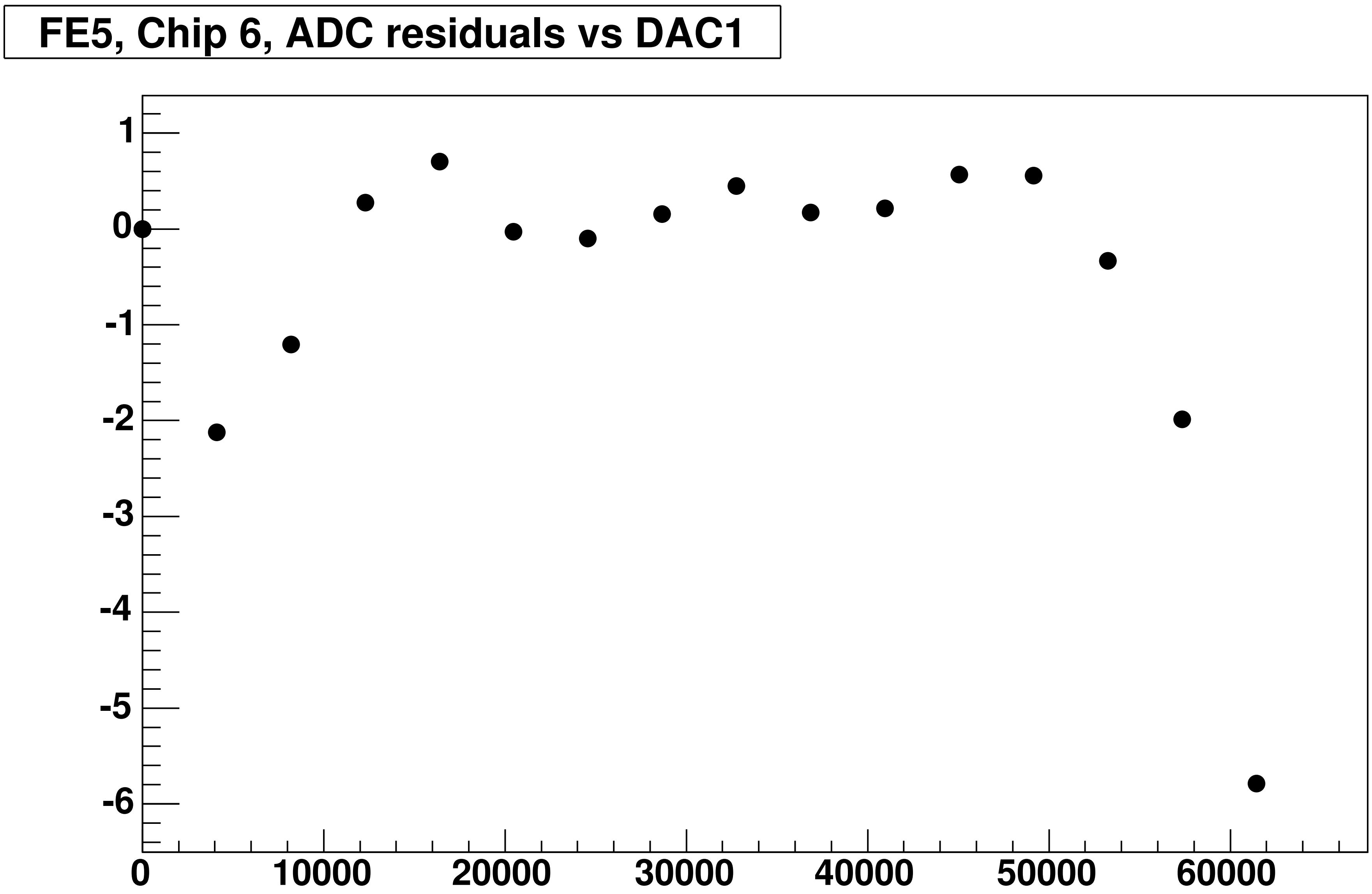
FE5, Chip 6, ADC mean vs DAC0
χ^2 / ndf 74.14 / 11
p0 -46.82 ± 0.02033
p1 -4.163e-06 ± 5.609e-07
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
0
10000
20000
30000
40000
50000
60000

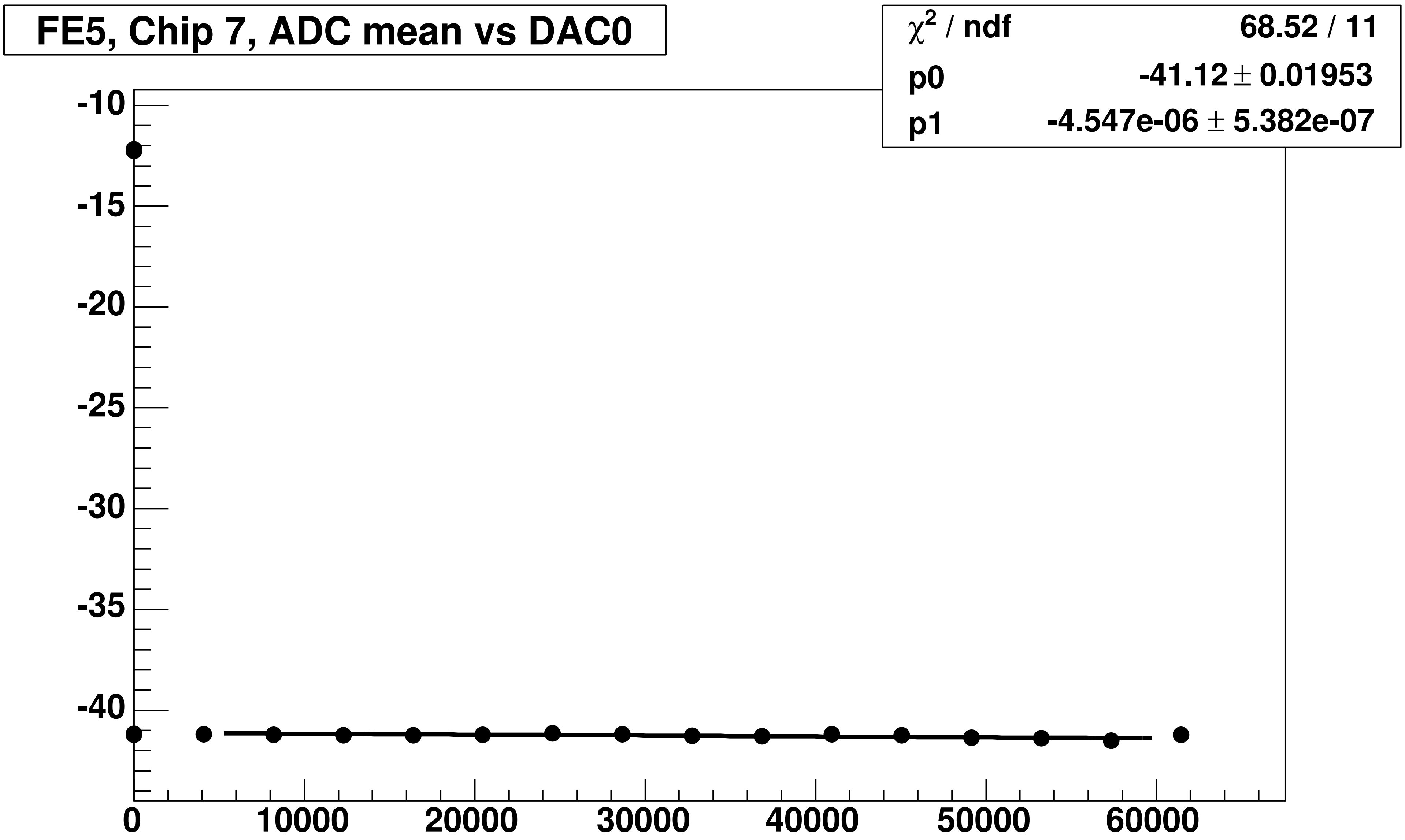

FE5, Chip 6, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


FE5, Chip 6, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

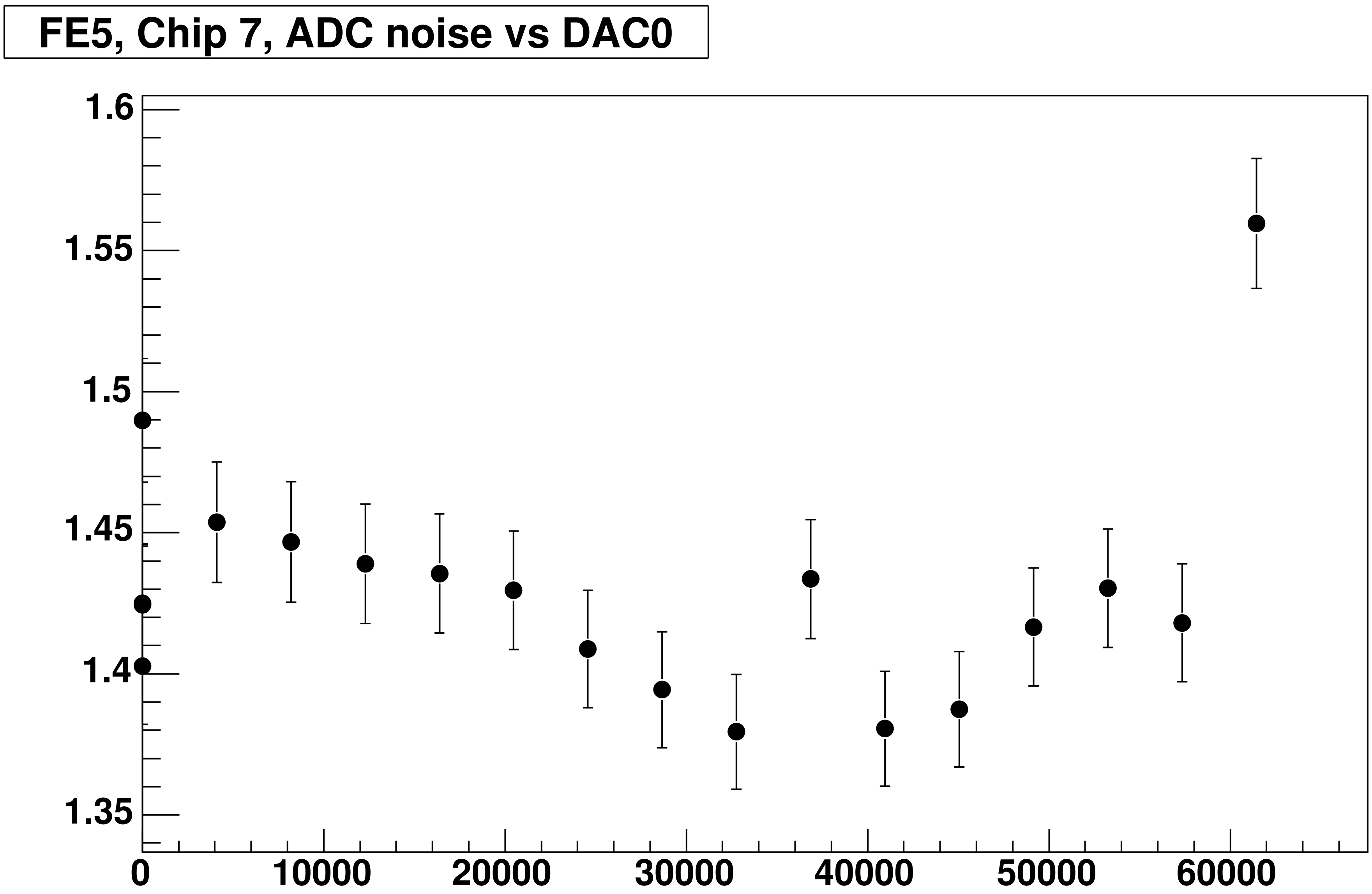

FE5, Chip 6, ADC mean vs DAC1
χ^2 / ndf 4443 / 11
p0 -44.46 ± 0.02147
p1 0.4508 ± 6.909e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

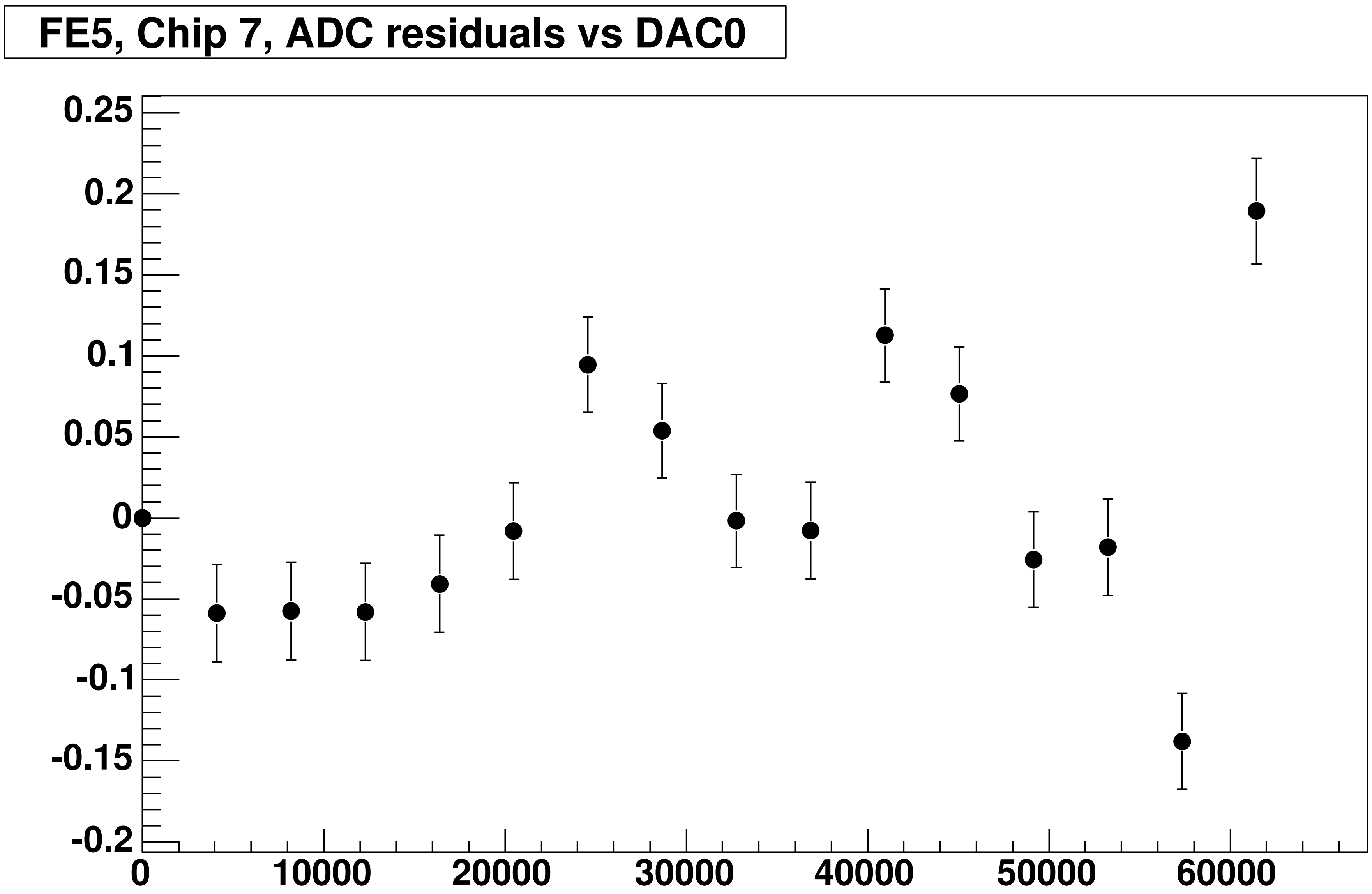

FE5, Chip 6, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

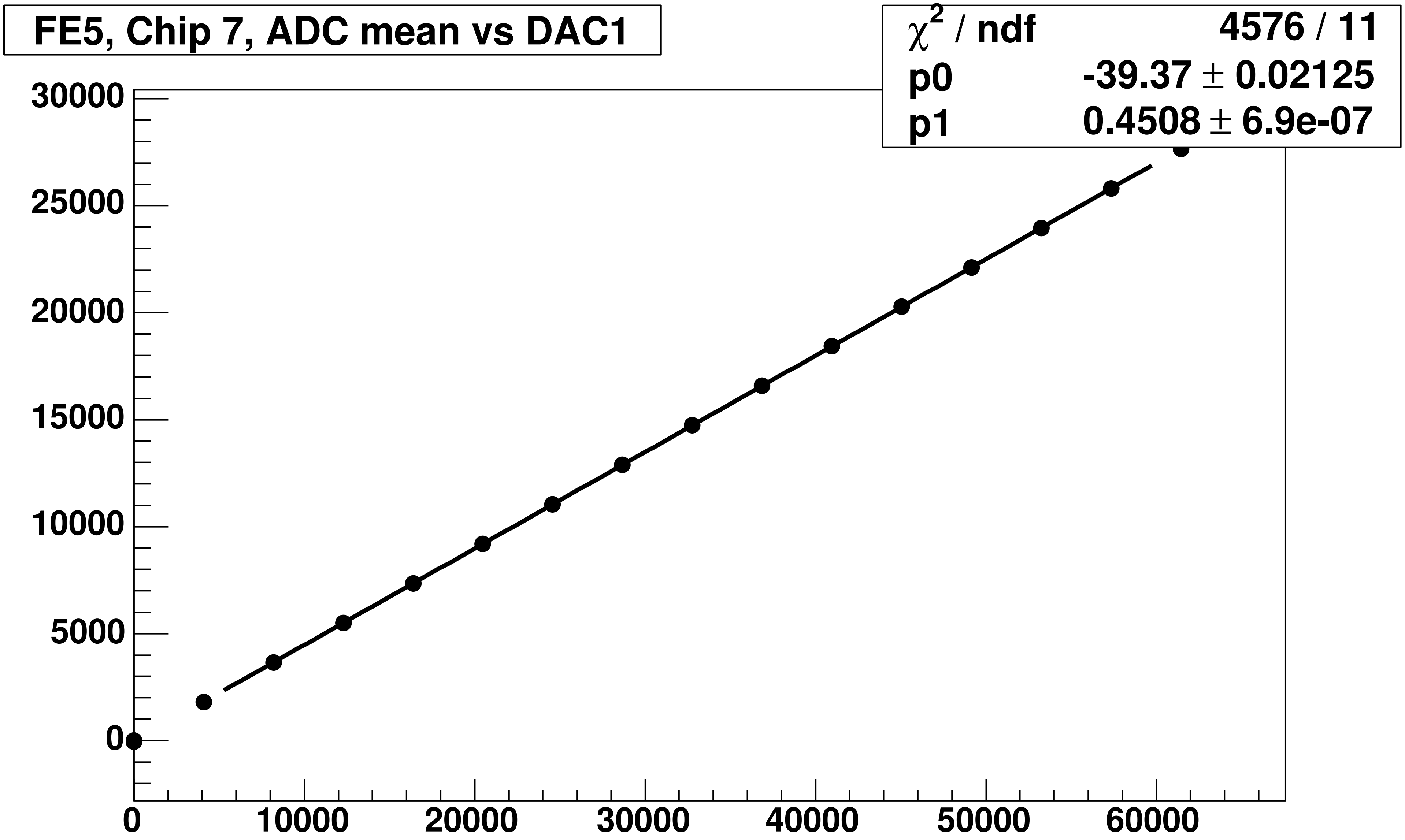

FE5, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



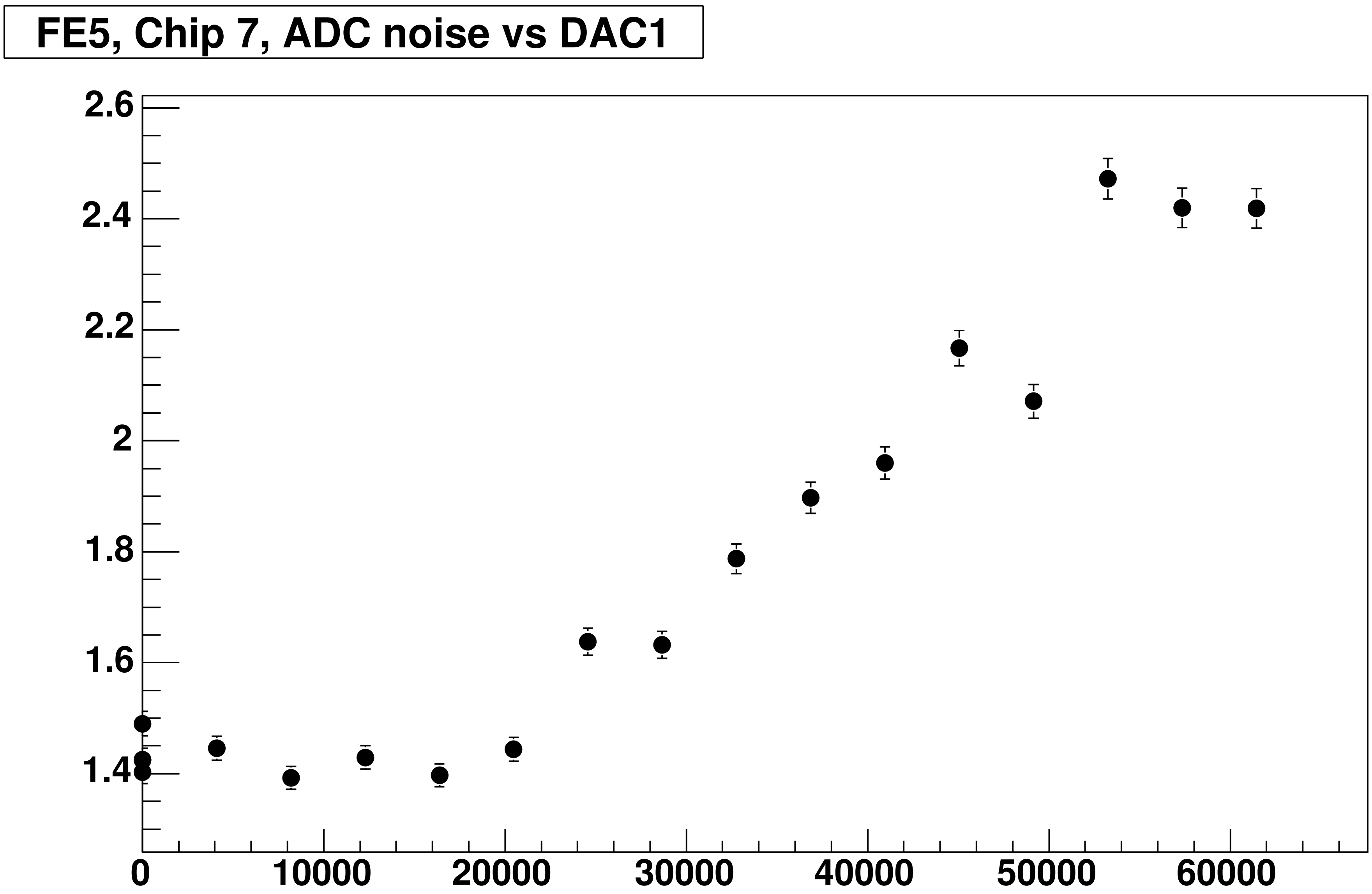
FE5, Chip 7, ADC mean vs DAC0
χ² / ndf 68.52 / 11
p0 -41.12 ± 0.01953
p1 -4.547e-06 ± 5.382e-07
-10
-15
-20
-25
-30
-35
-40
0
10000
20000
30000
40000
50000
60000

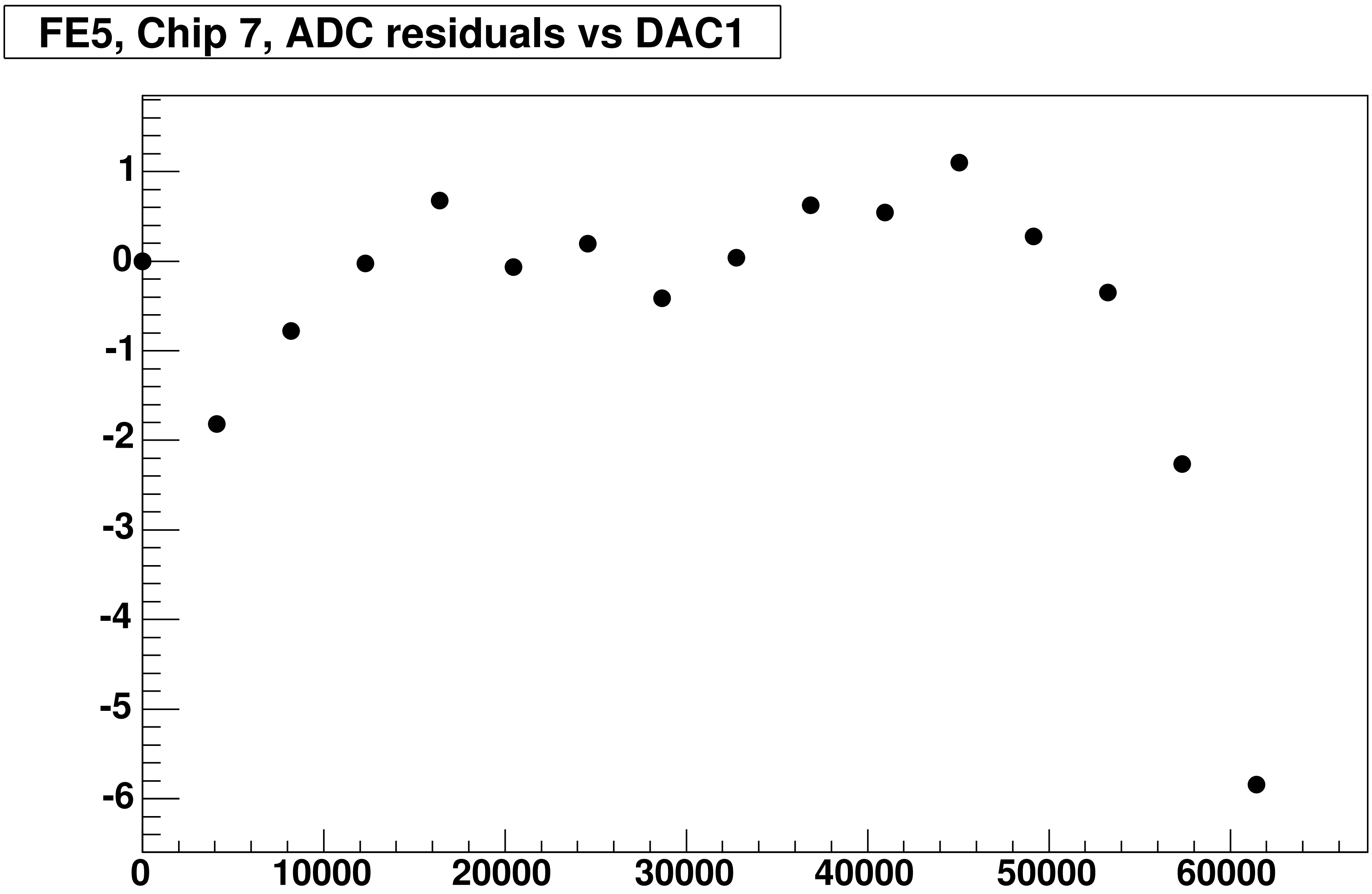

FE5, Chip 7, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

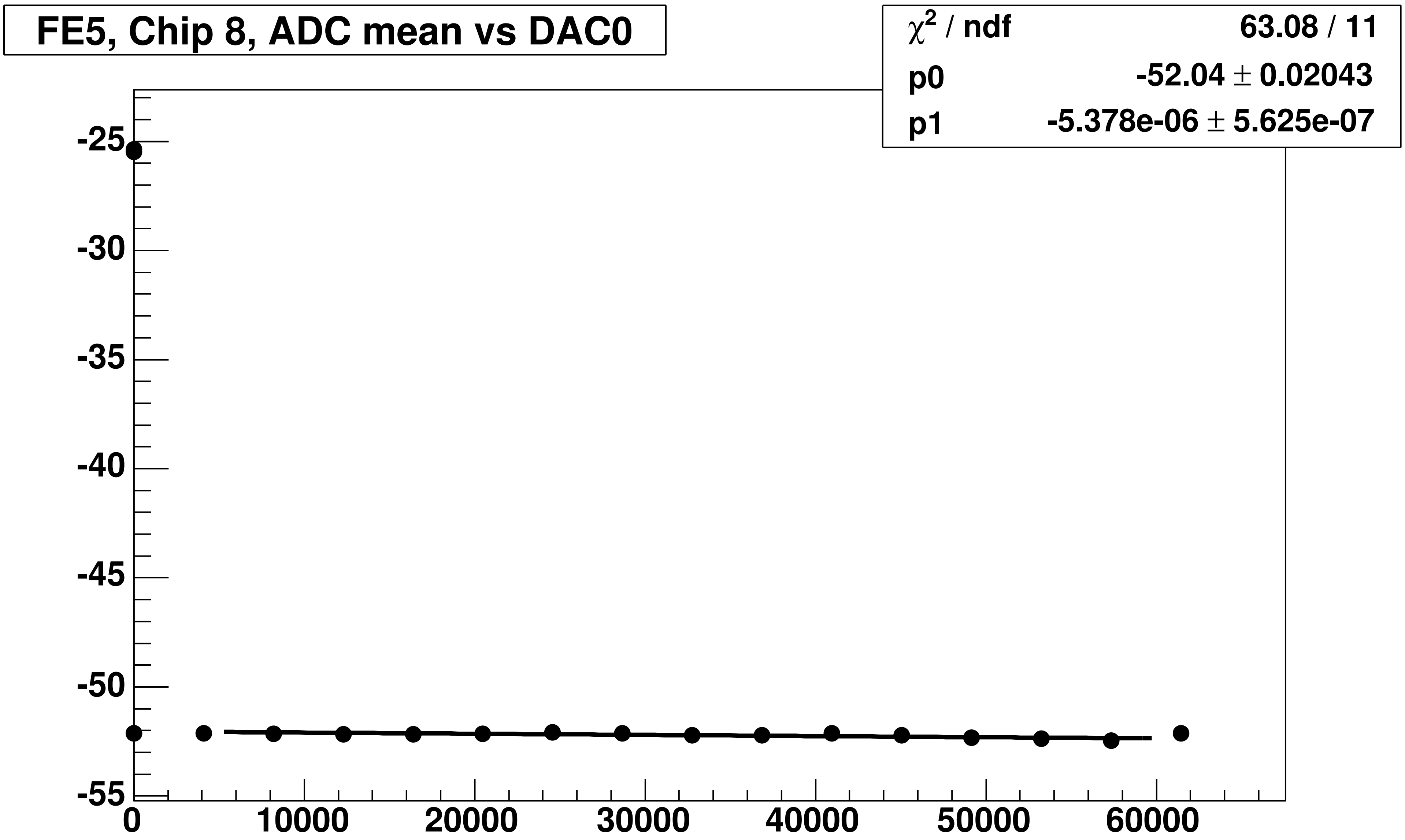

FE5, Chip 7, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

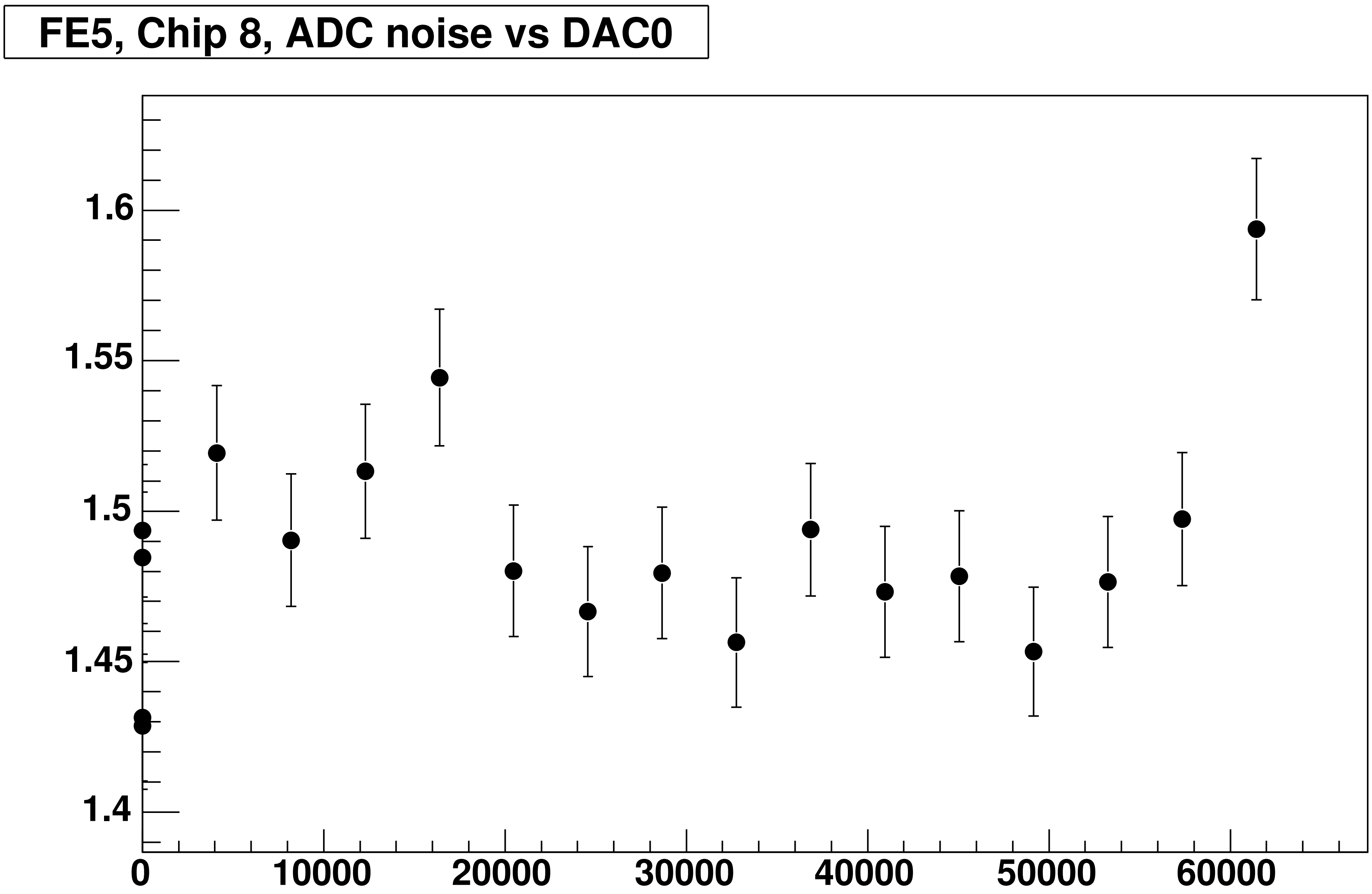


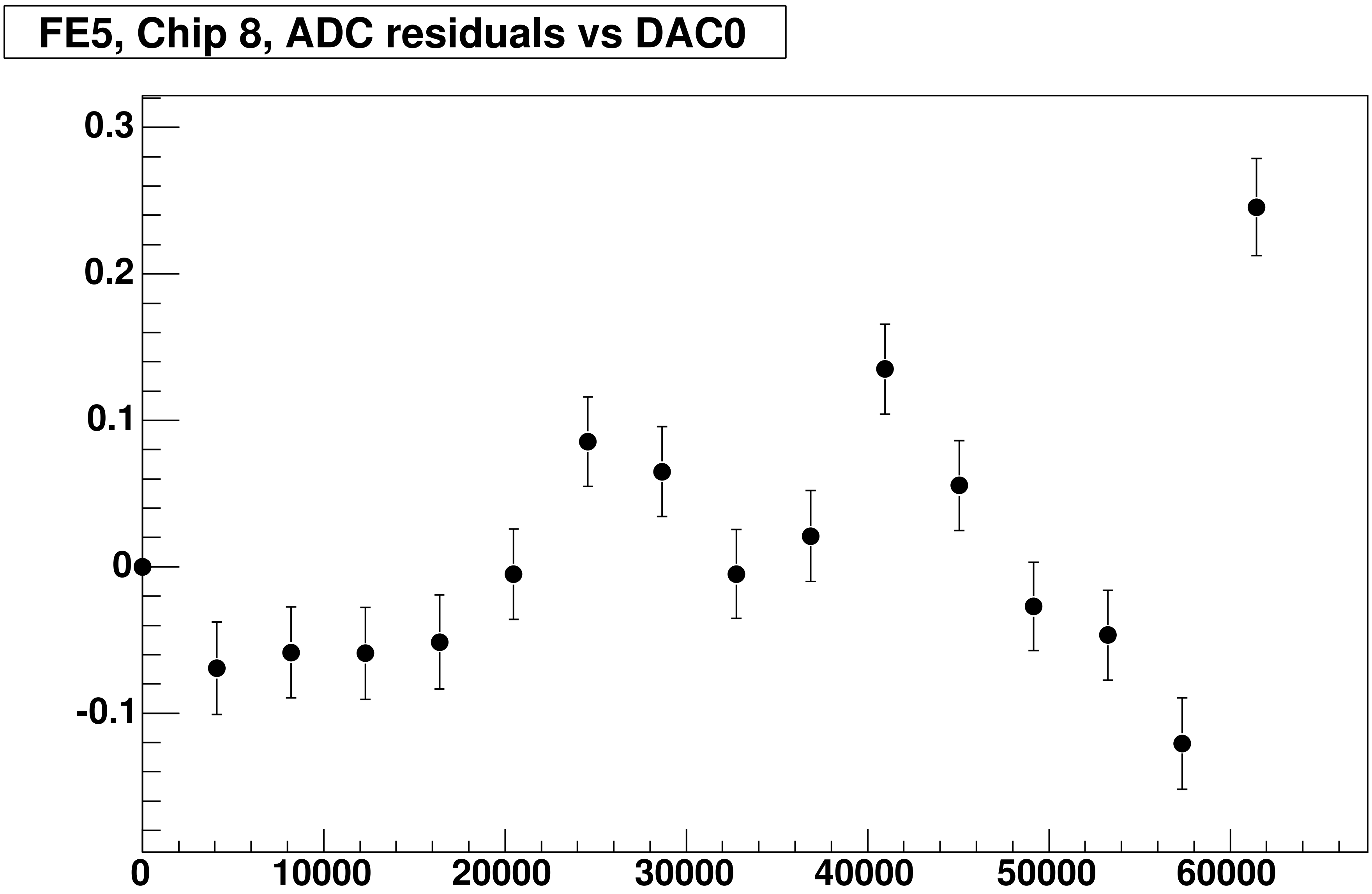
FE5, Chip 7, ADC mean vs DAC1
χ^2 / ndf 4576 / 11
p0 -39.37 ± 0.02125
p1 0.4508 ± 6.9e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

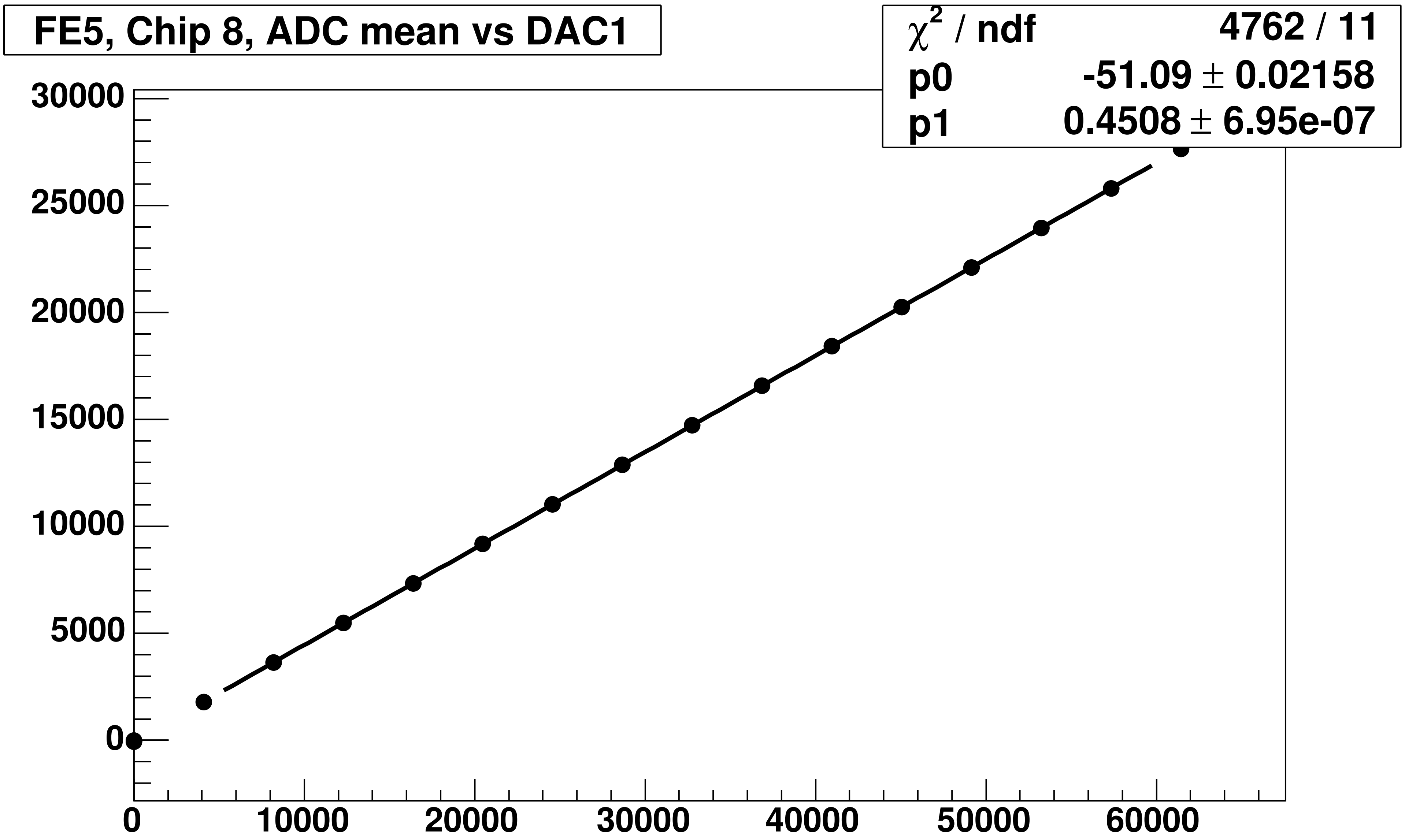

FE5, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

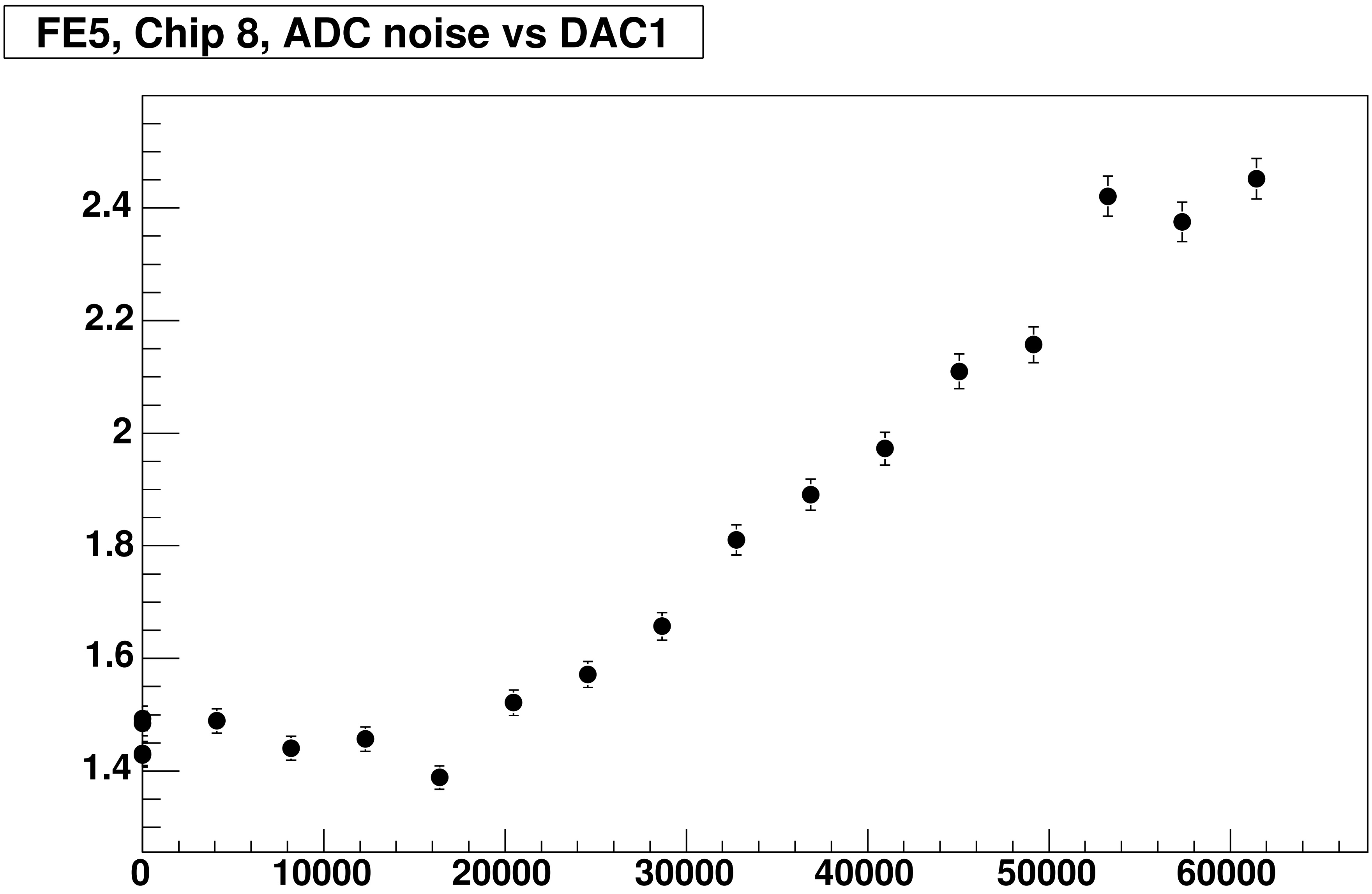

FE5, Chip 8, ADC mean vs DAC0
χ^2 / ndf 63.08 / 11
p0 -52.04 ± 0.02043
p1 -5.378e-06 ± 5.625e-07
-25
-30
-35
-40
-45
-50
-55
0
10000
20000
30000
40000
50000
60000

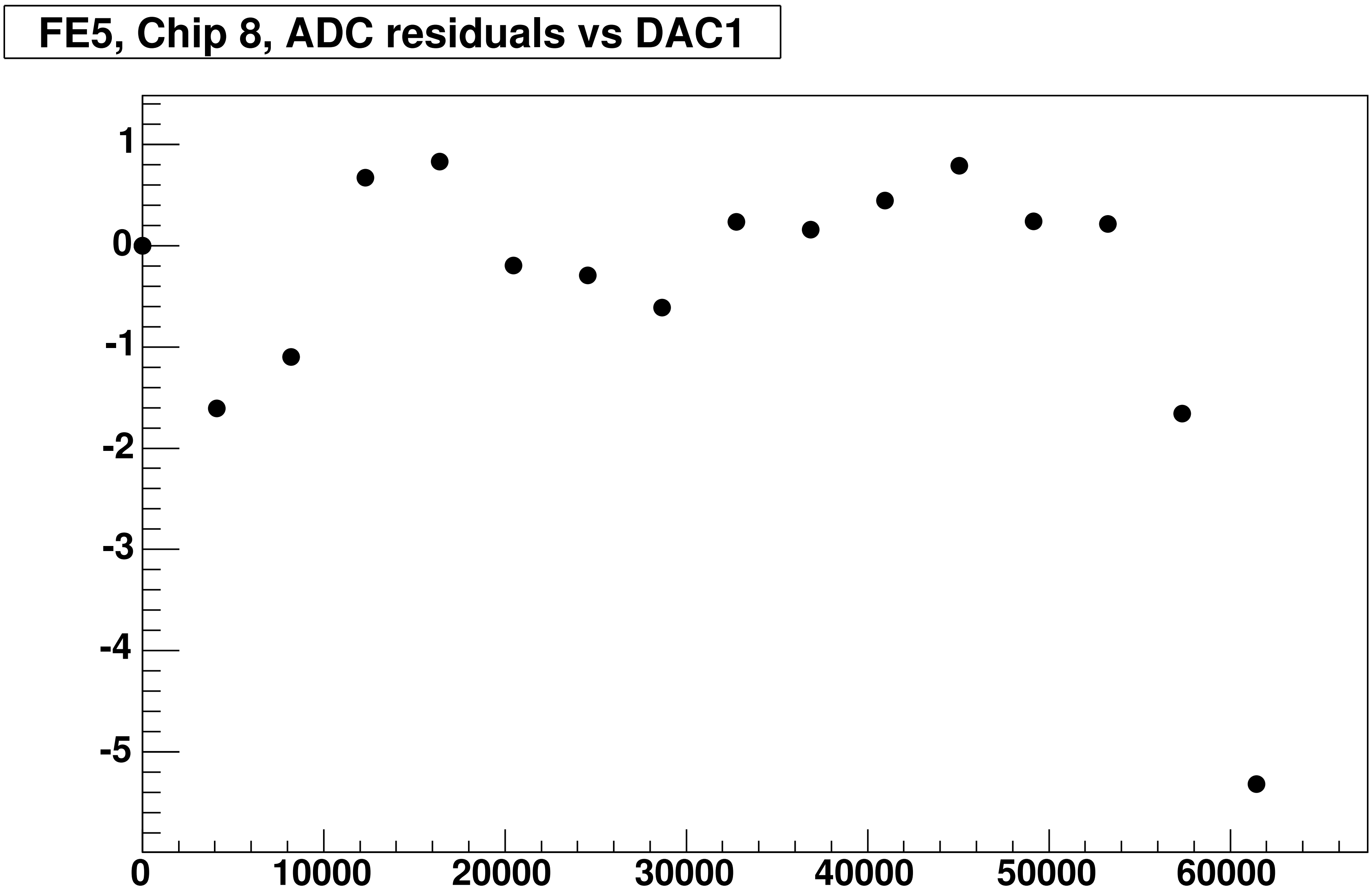

FE5, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

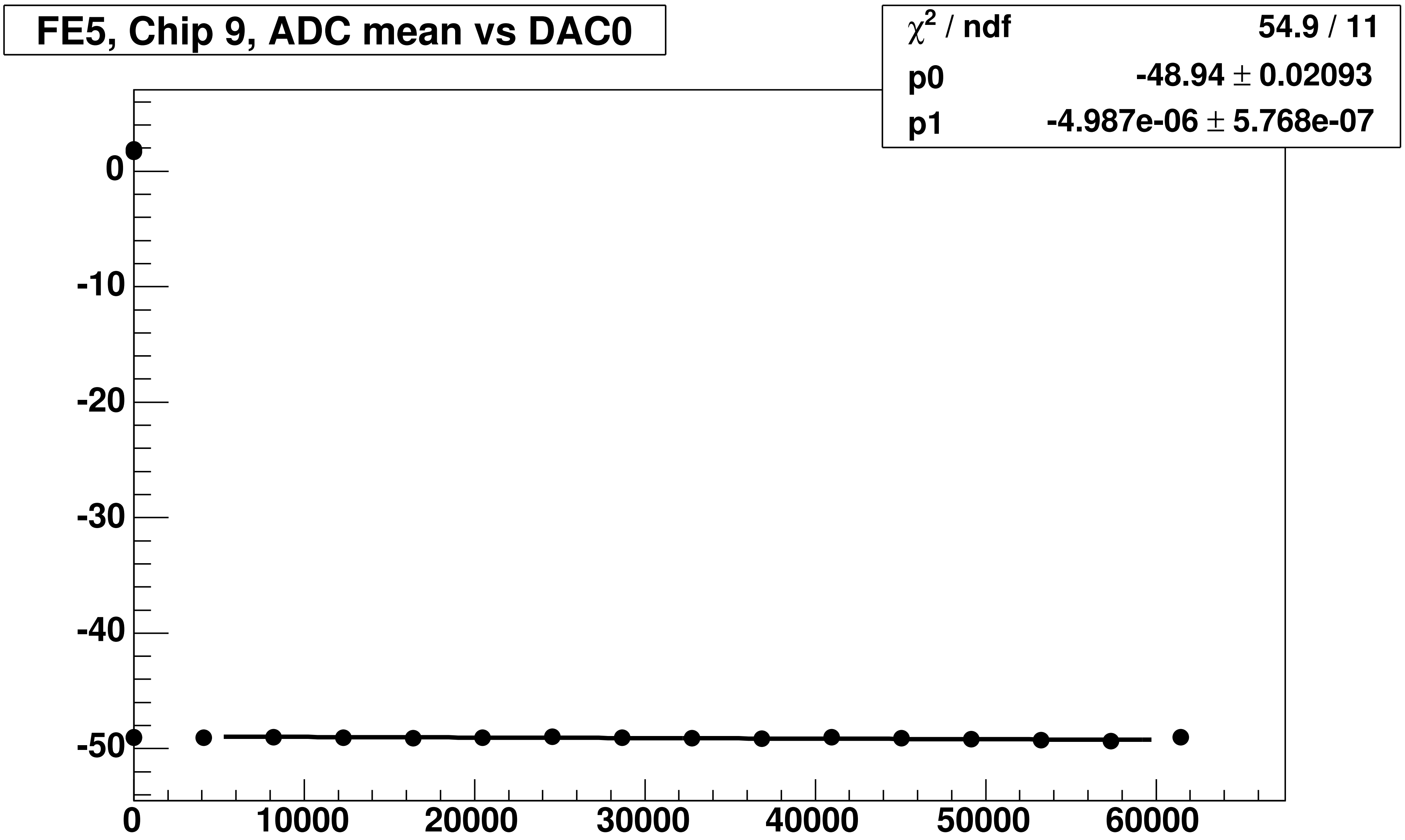

FE5, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
0
10000
20000
30000
40000
50000
60000



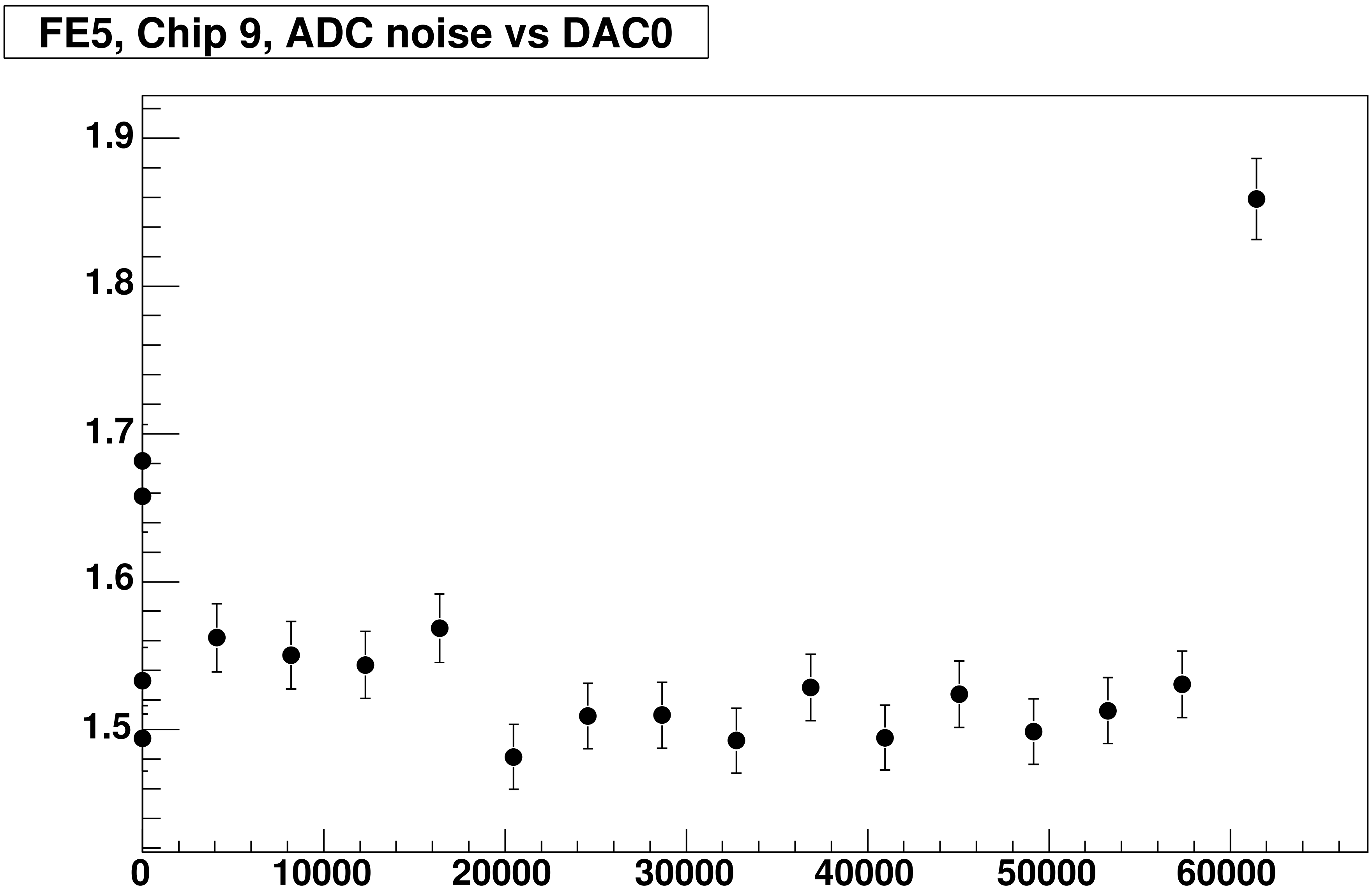
FE5, Chip 8, ADC mean vs DAC1
χ² / ndf 4762 / 11
p0 -51.09 ± 0.02158
p1 0.4508 ± 6.95e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

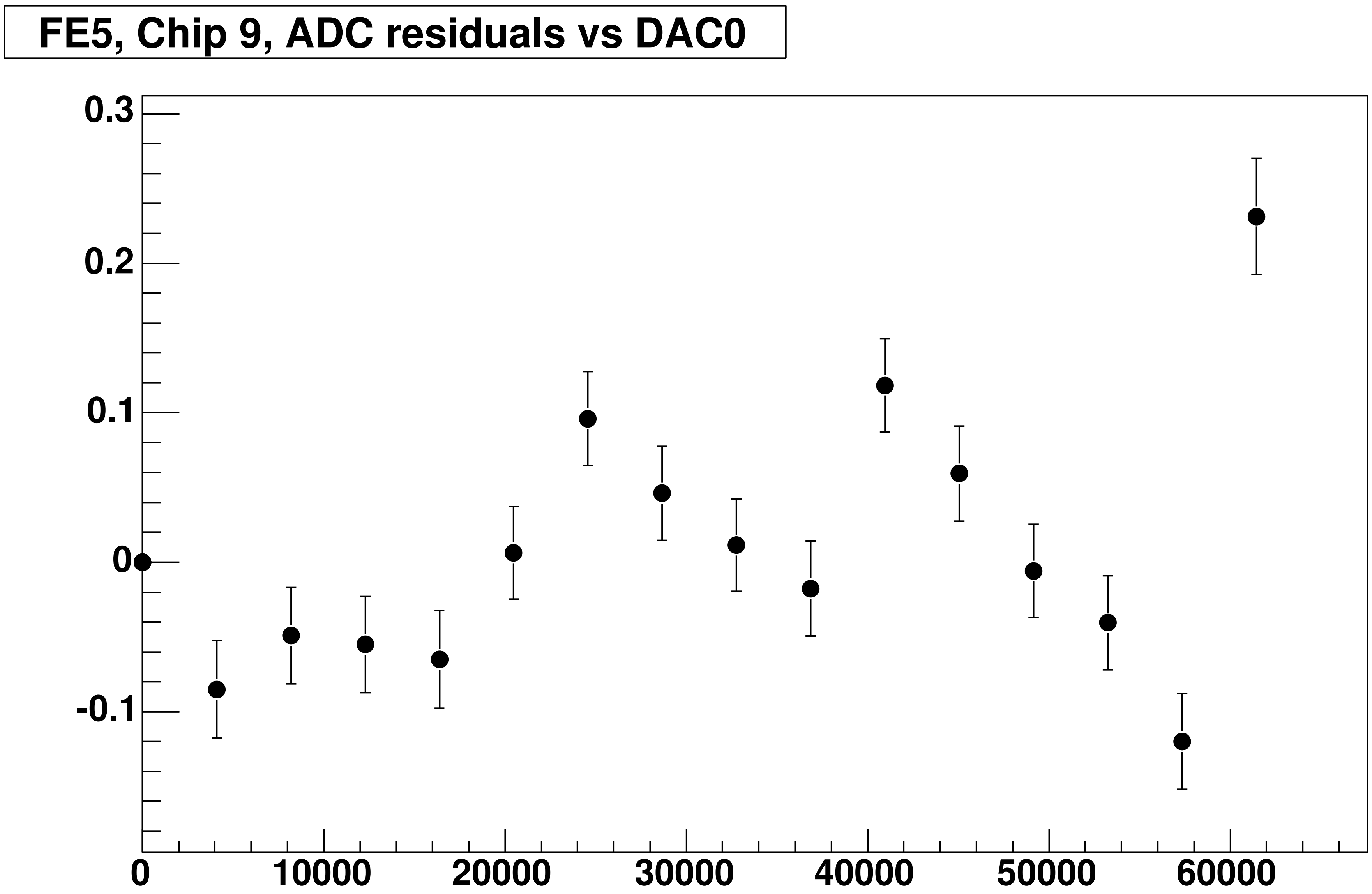

FE5, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

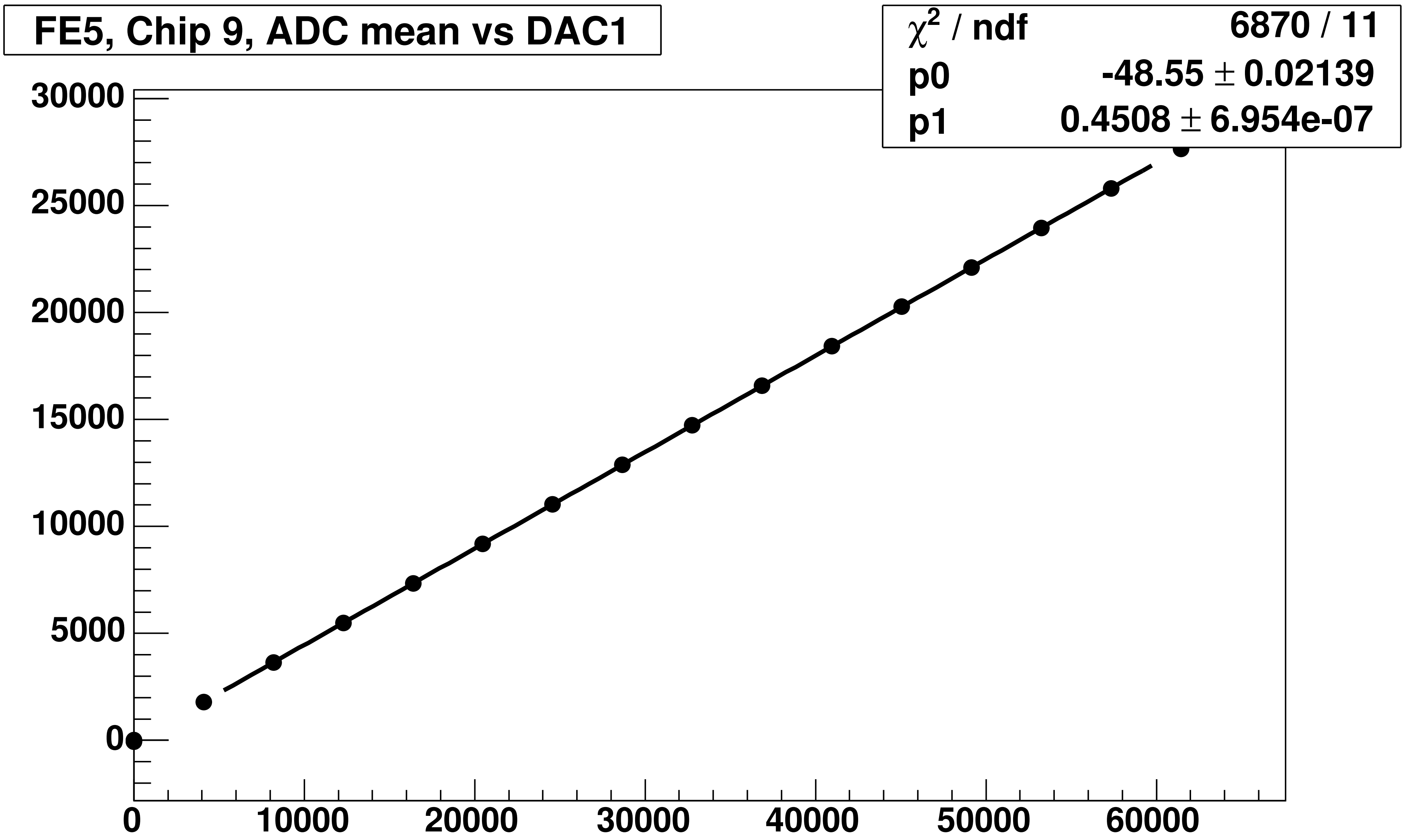


FE5, Chip 9, ADC mean vs DAC0
χ^2 / ndf 54.9 / 11
p0 -48.94 ± 0.02093
p1 -4.987e-06 ± 5.768e-07
0
-10
-20
-30
-40
-50
0
10000
20000
30000
40000
50000
60000

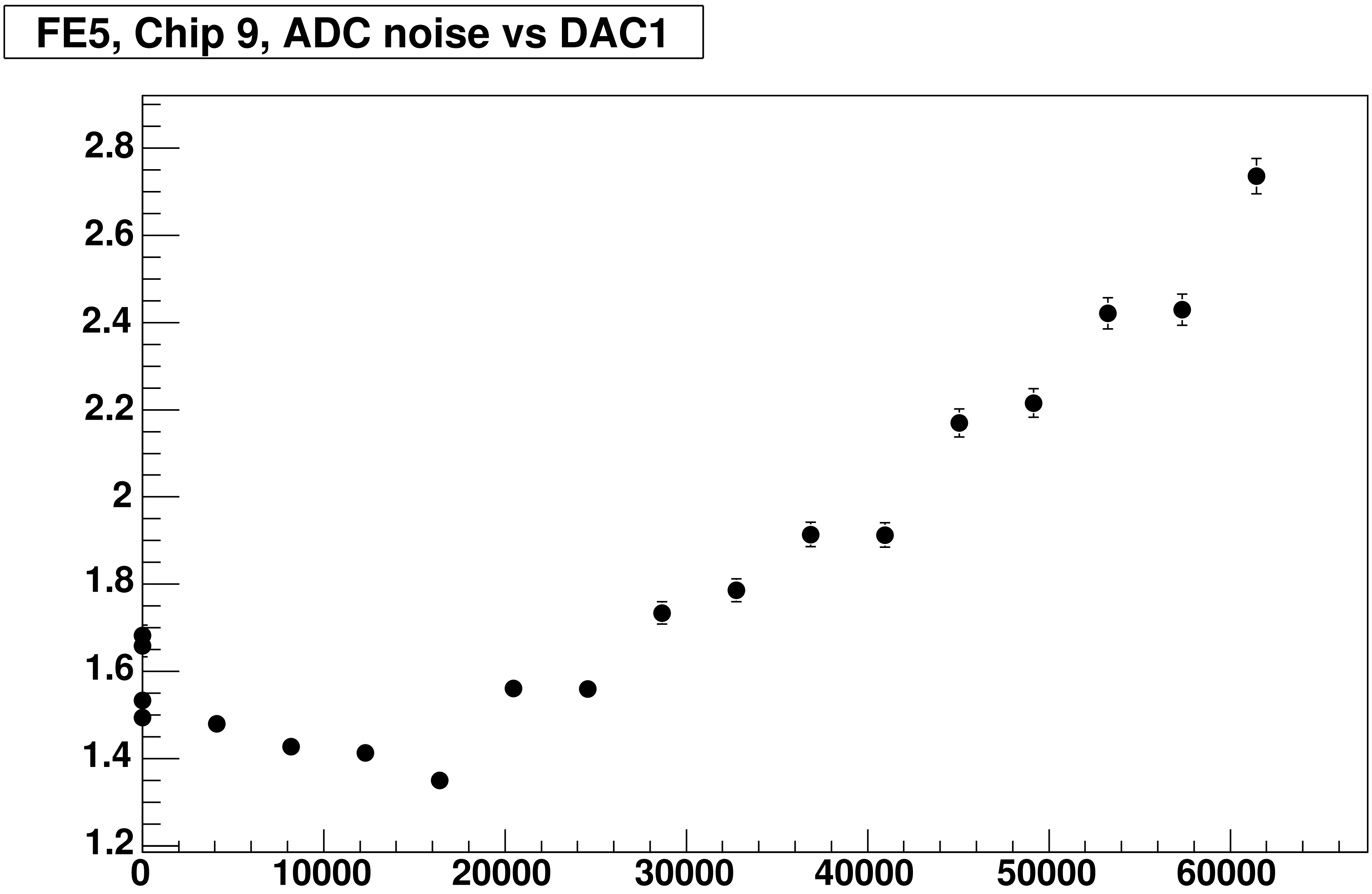

FE5, Chip 9, ADC noise vs DAC0
1.9
1.8
1.7
1.6
1.5
0
10000
20000
30000
40000
50000
60000

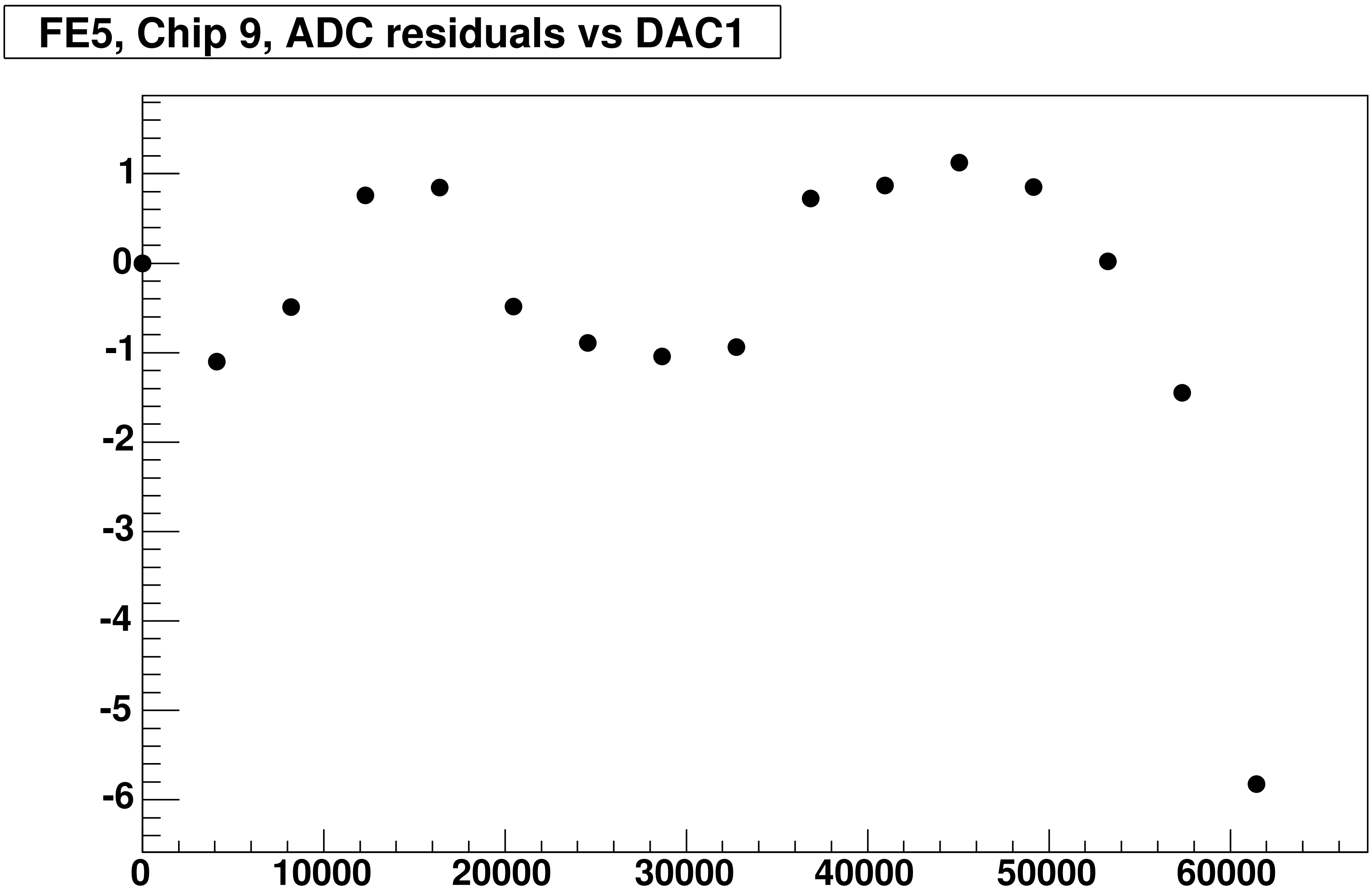


FE5, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
0
10000
20000
30000
40000
50000
60000

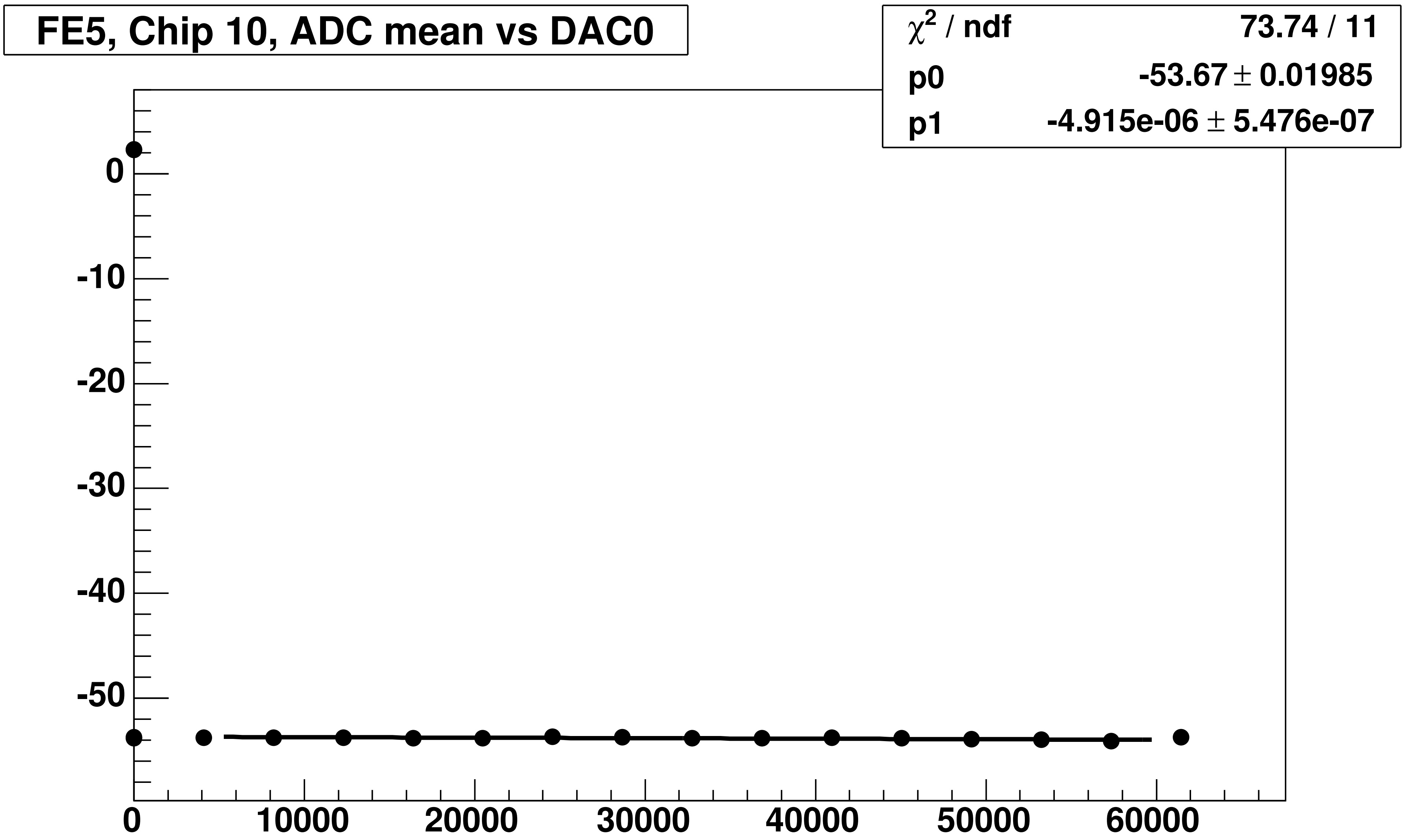


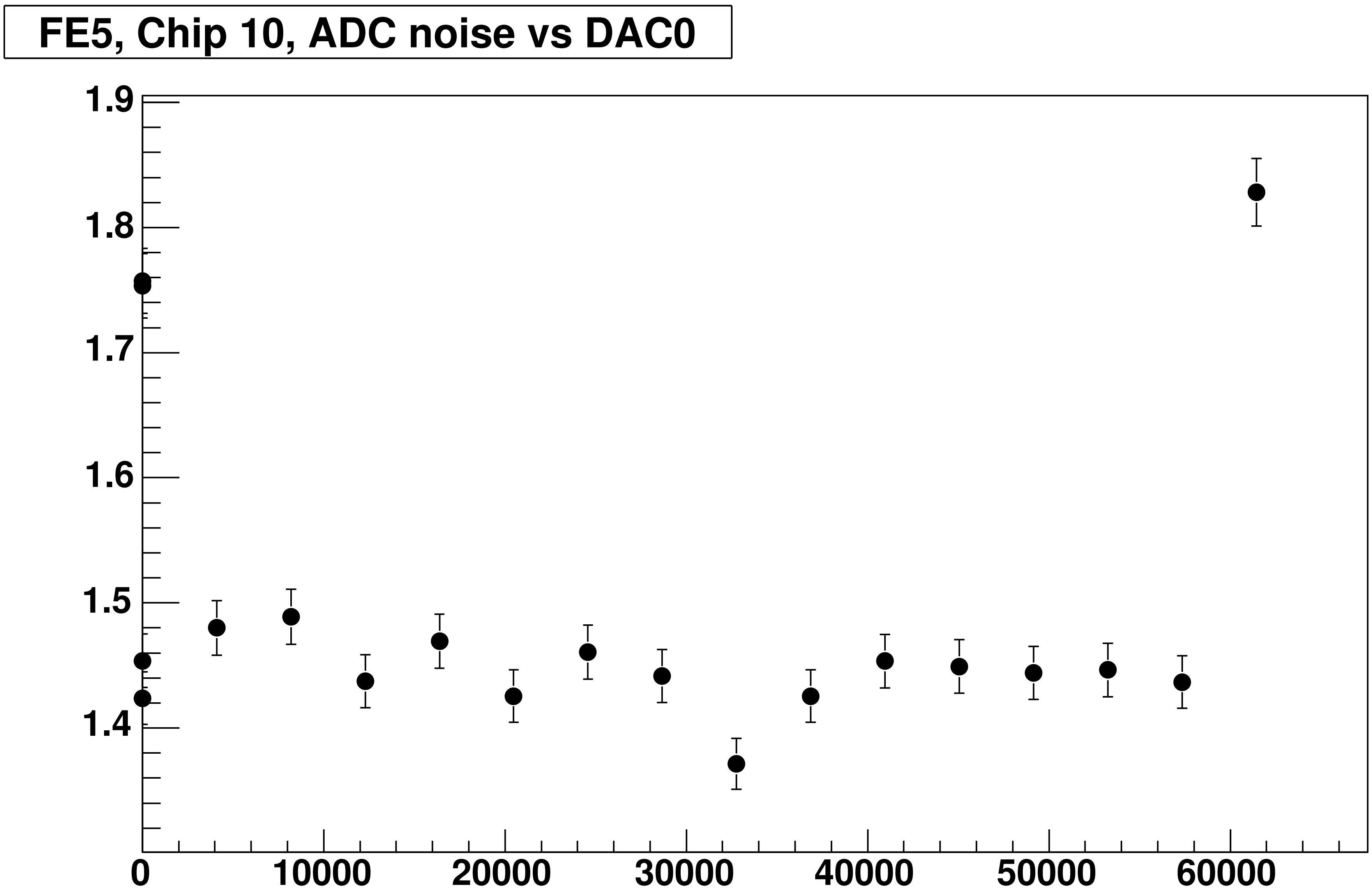
FE5, Chip 9, ADC mean vs DAC1
χ^2 / ndf 6870 / 11
p0 -48.55 ± 0.02139
p1 0.4508 ± 6.954e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE5, 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

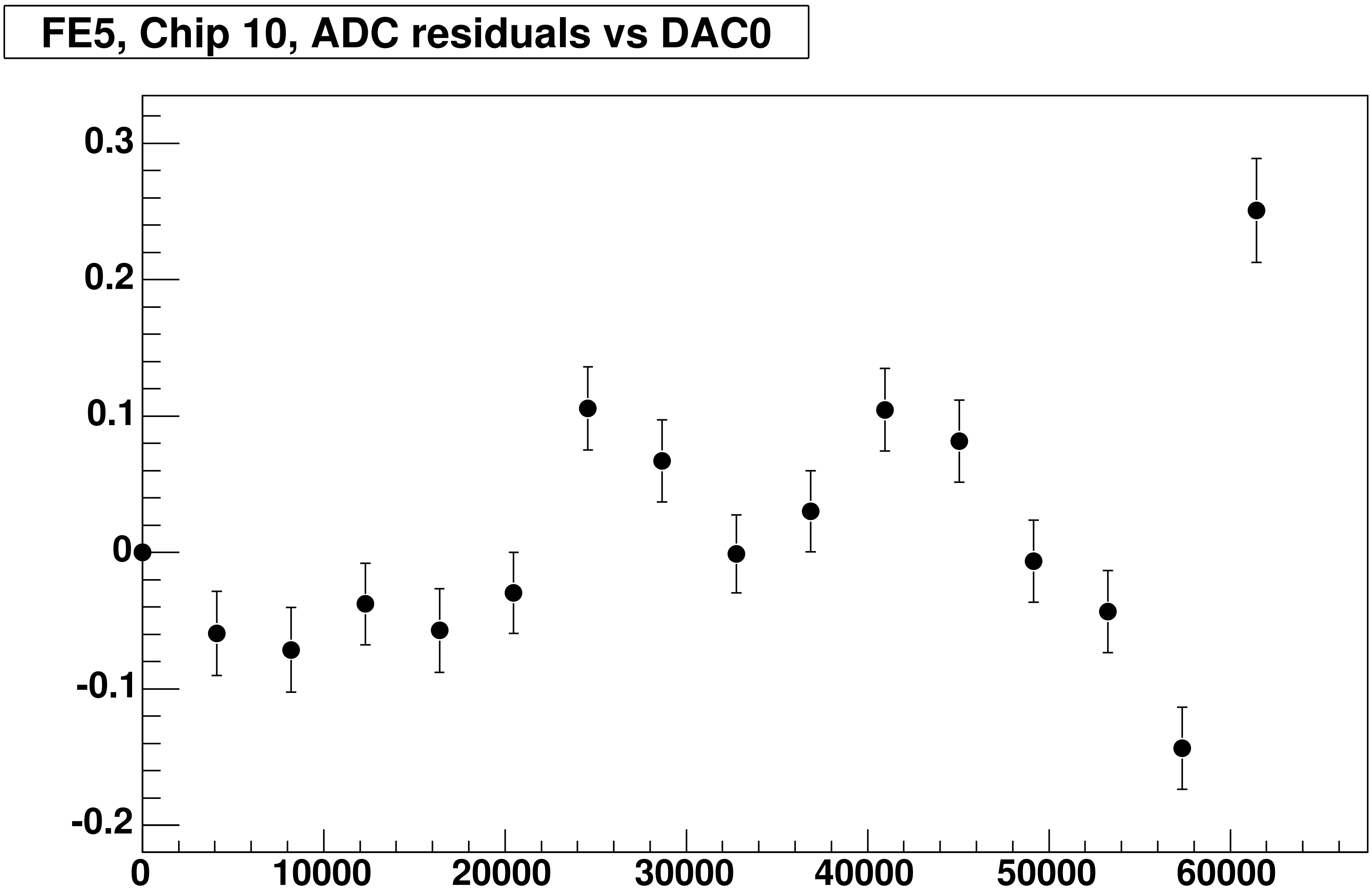


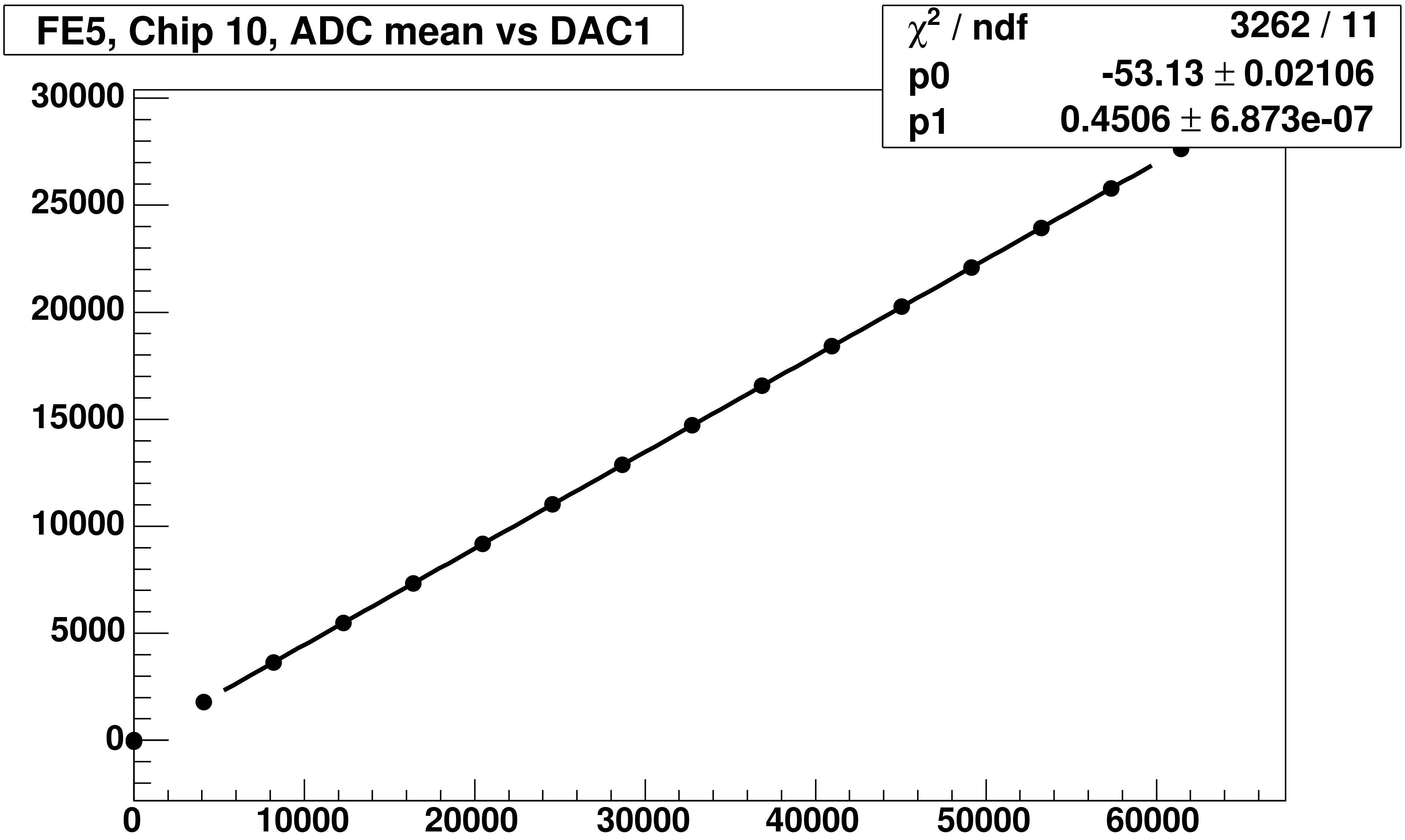
FE5, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE5, Chip 10, ADC mean vs DAC0
χ^2 / ndf 73.74 / 11
p0 -53.67 ± 0.01985
p1 -4.915e-06 ± 5.476e-07
0
-10
-20
-30
-40
-50
0
10000
20000
30000
40000
50000
60000

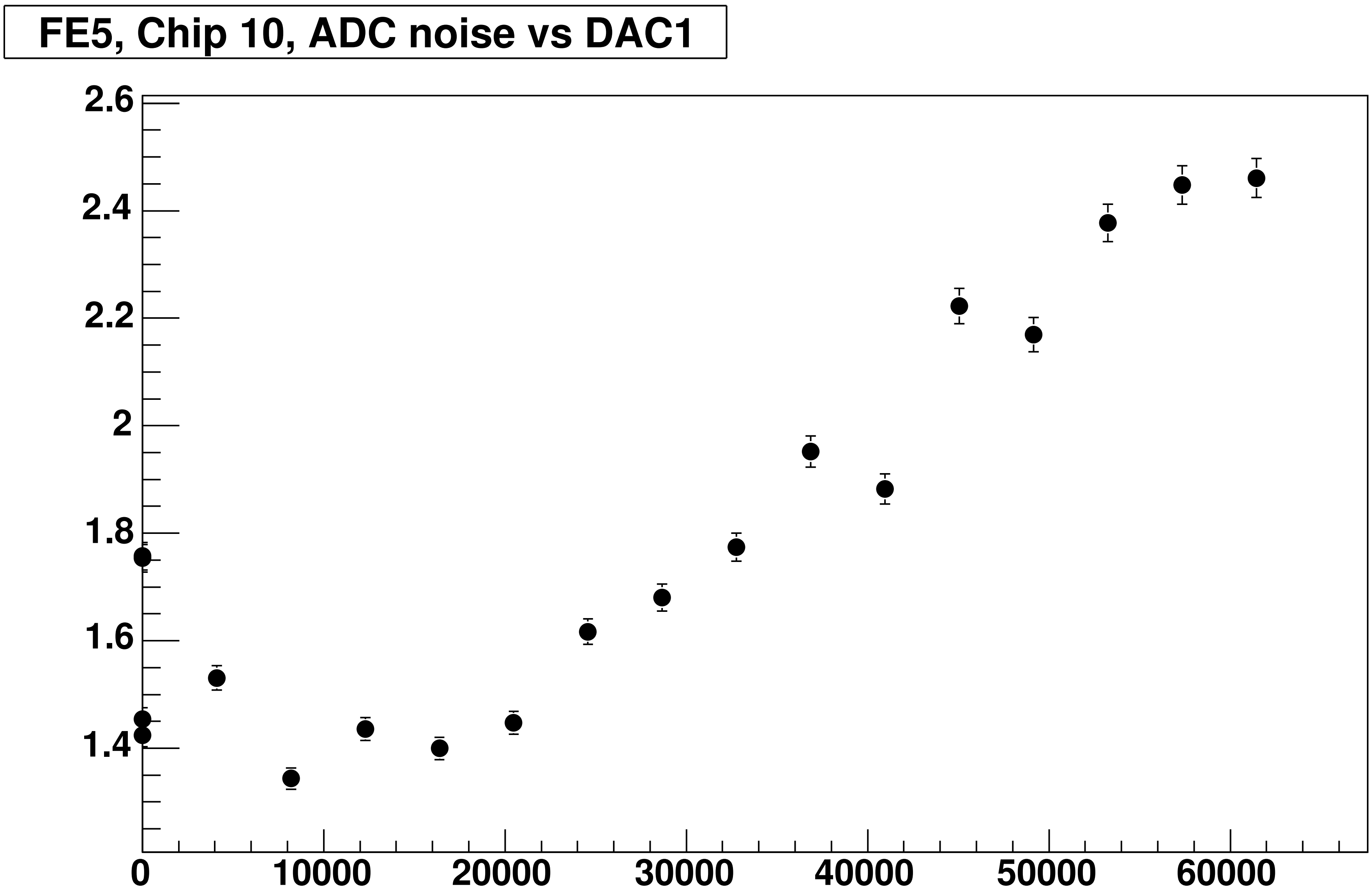


FE5, Chip 10, ADC noise vs DAC0
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

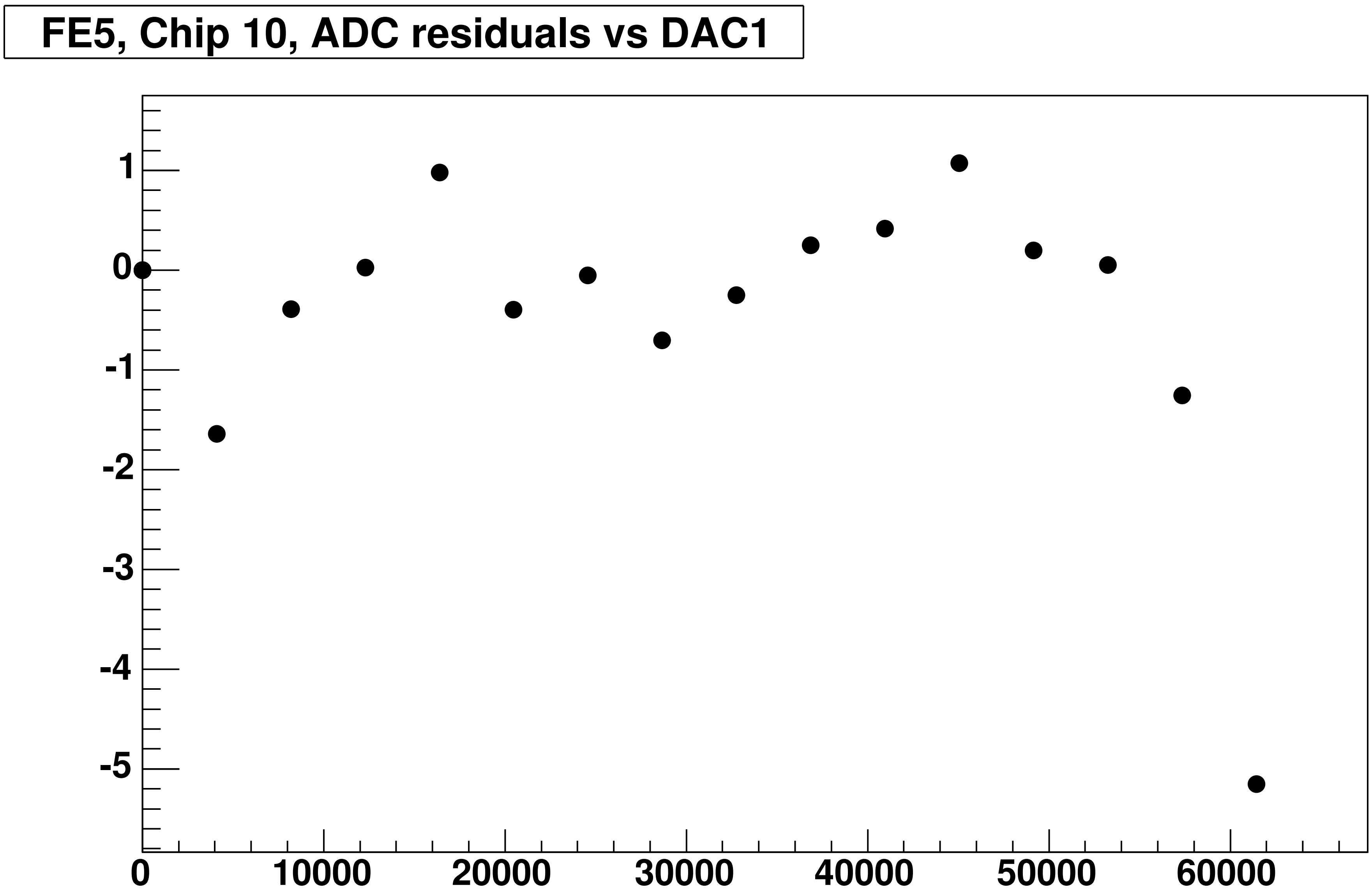

FE5, Chip 10, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

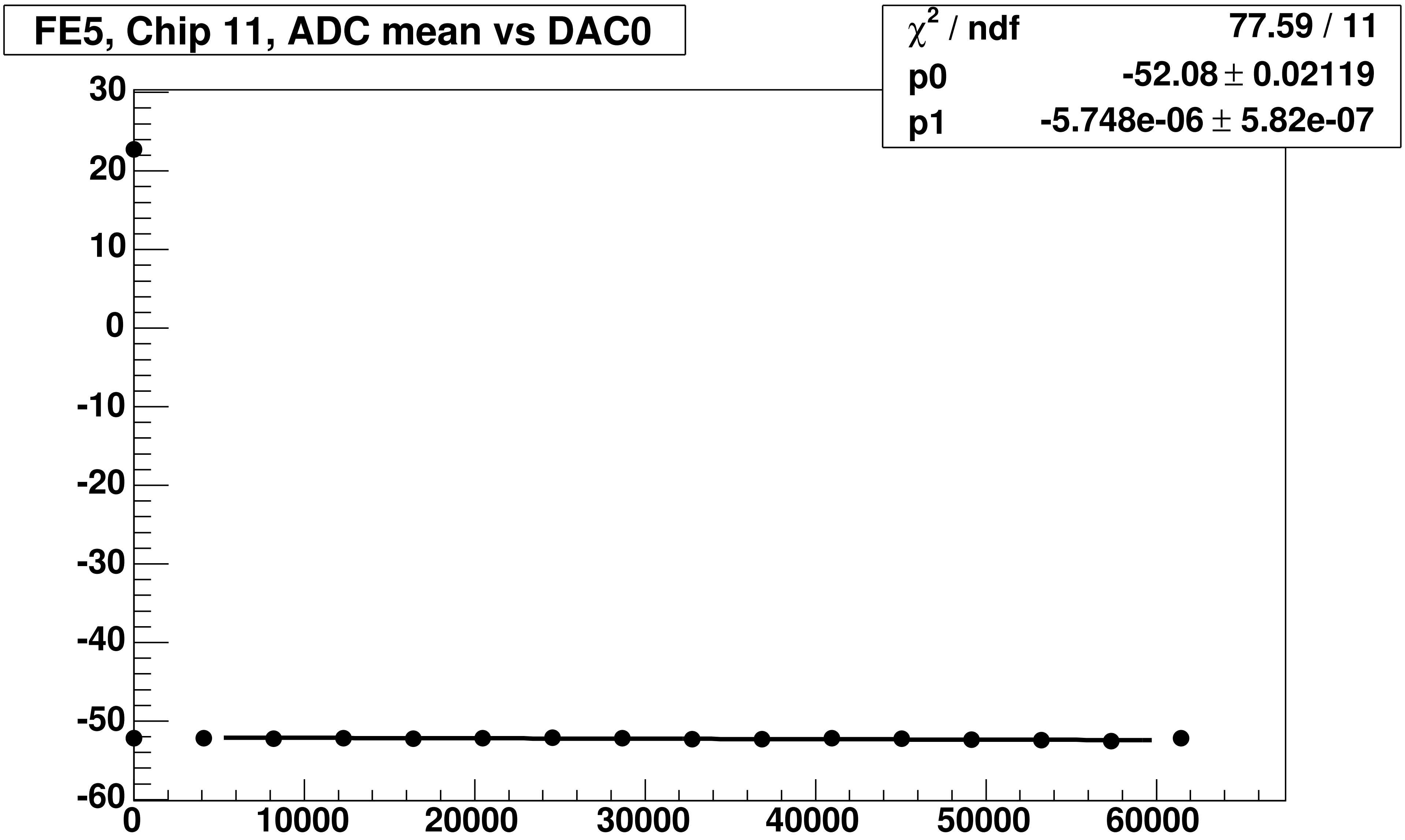


FE5, Chip 10, ADC mean vs DAC1
χ^2 / ndf 3262 / 11
p0 -53.13 ± 0.02106
p1 0.4506 ± 6.873e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

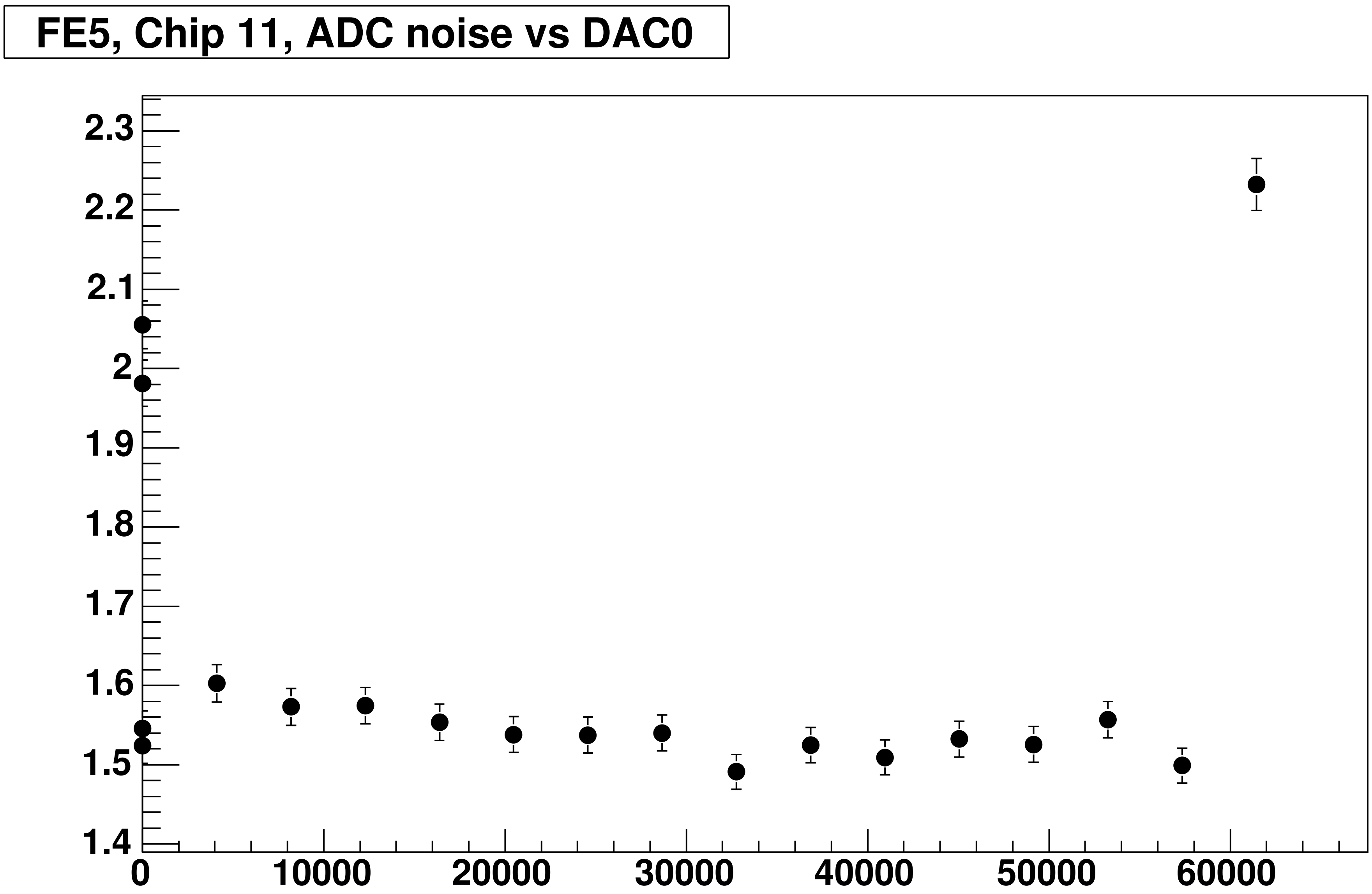


FE5, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

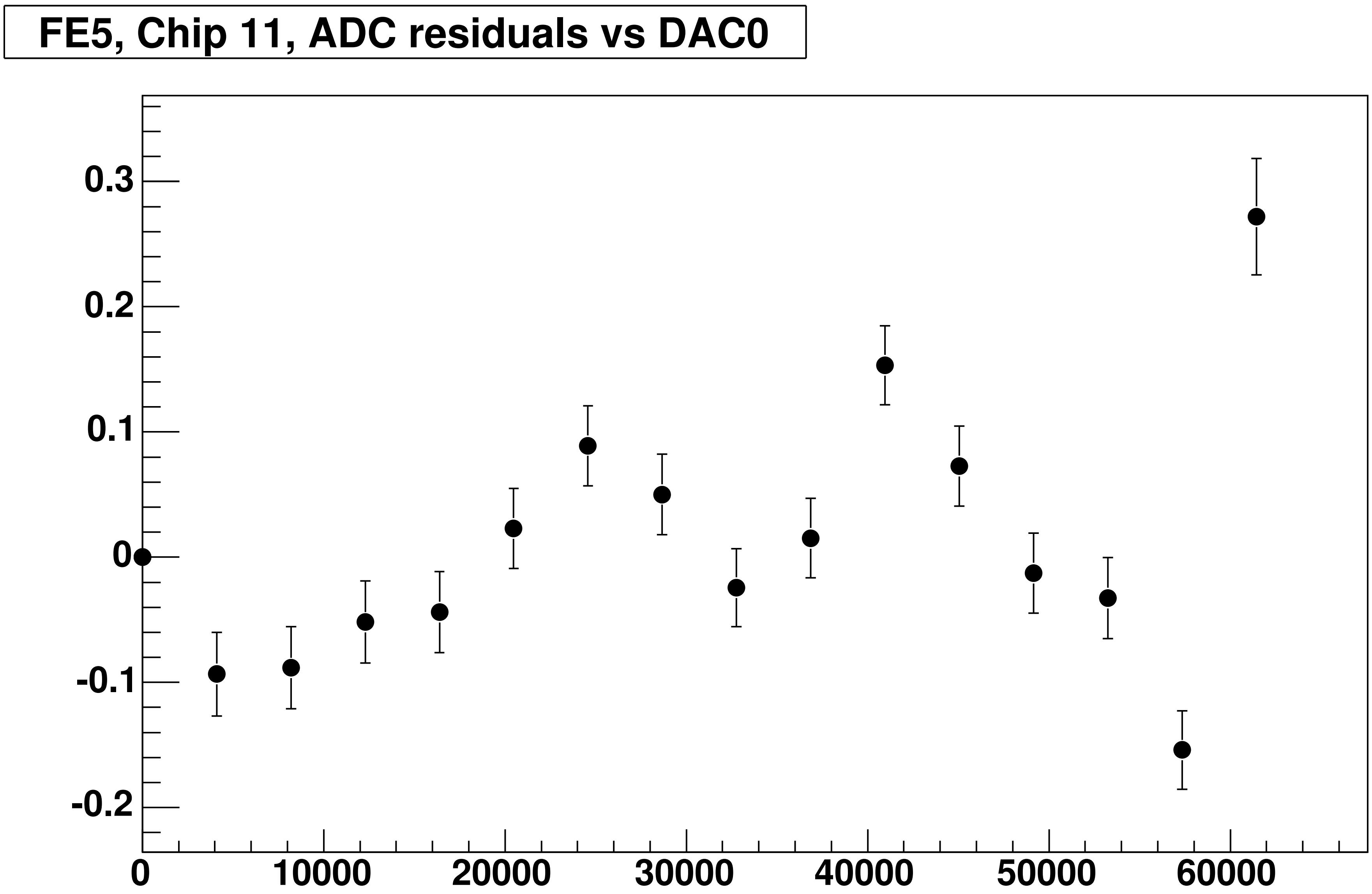

FE5, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

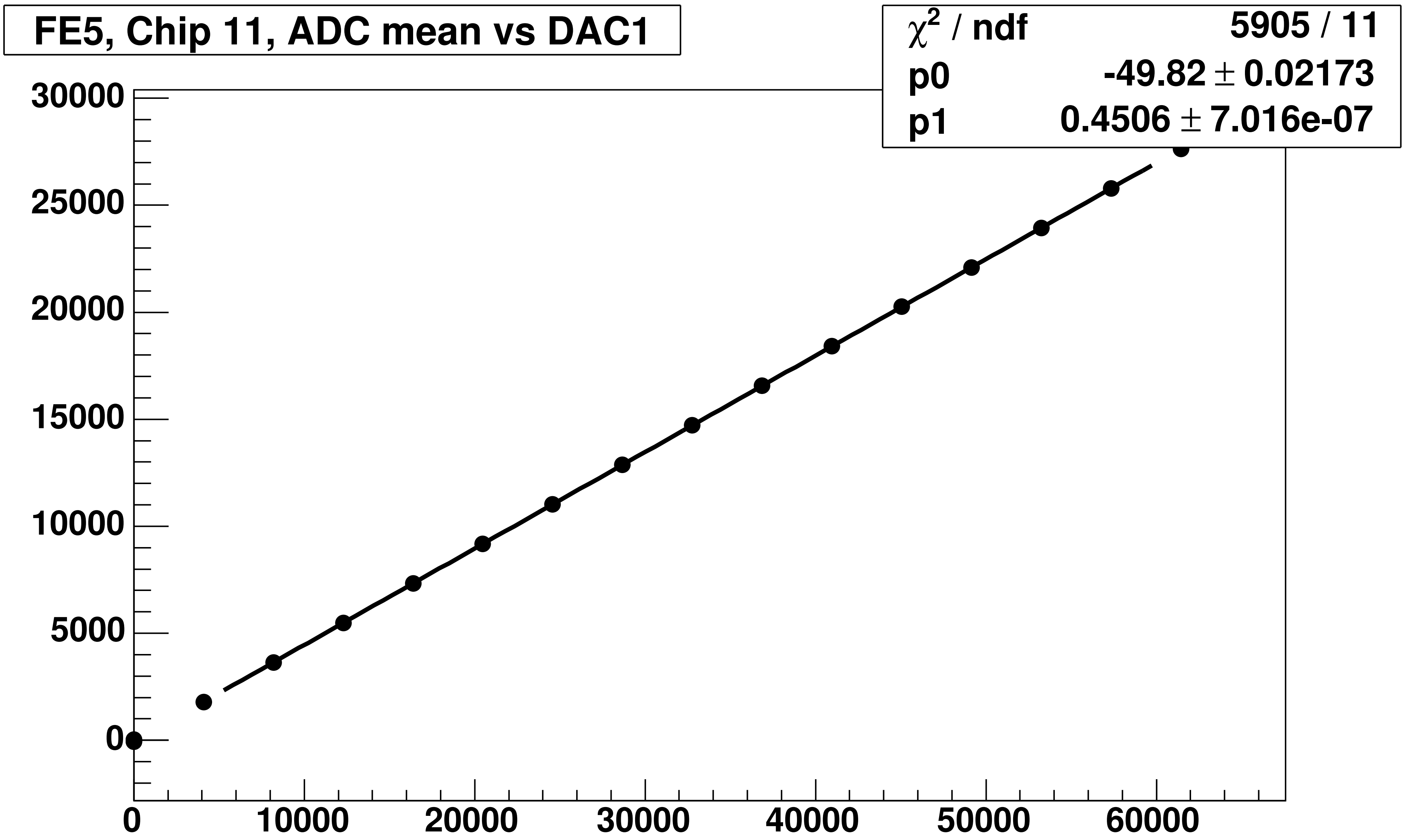


FE5, Chip 11, ADC mean vs DAC0
χ^2 / ndf 77.59 / 11
p0 -52.08 ± 0.02119
p1 -5.748e-06 ± 5.82e-07
30
20
10
0
-10
-20
-30
-40
-50
-60
0
10000
20000
30000
40000
50000
60000

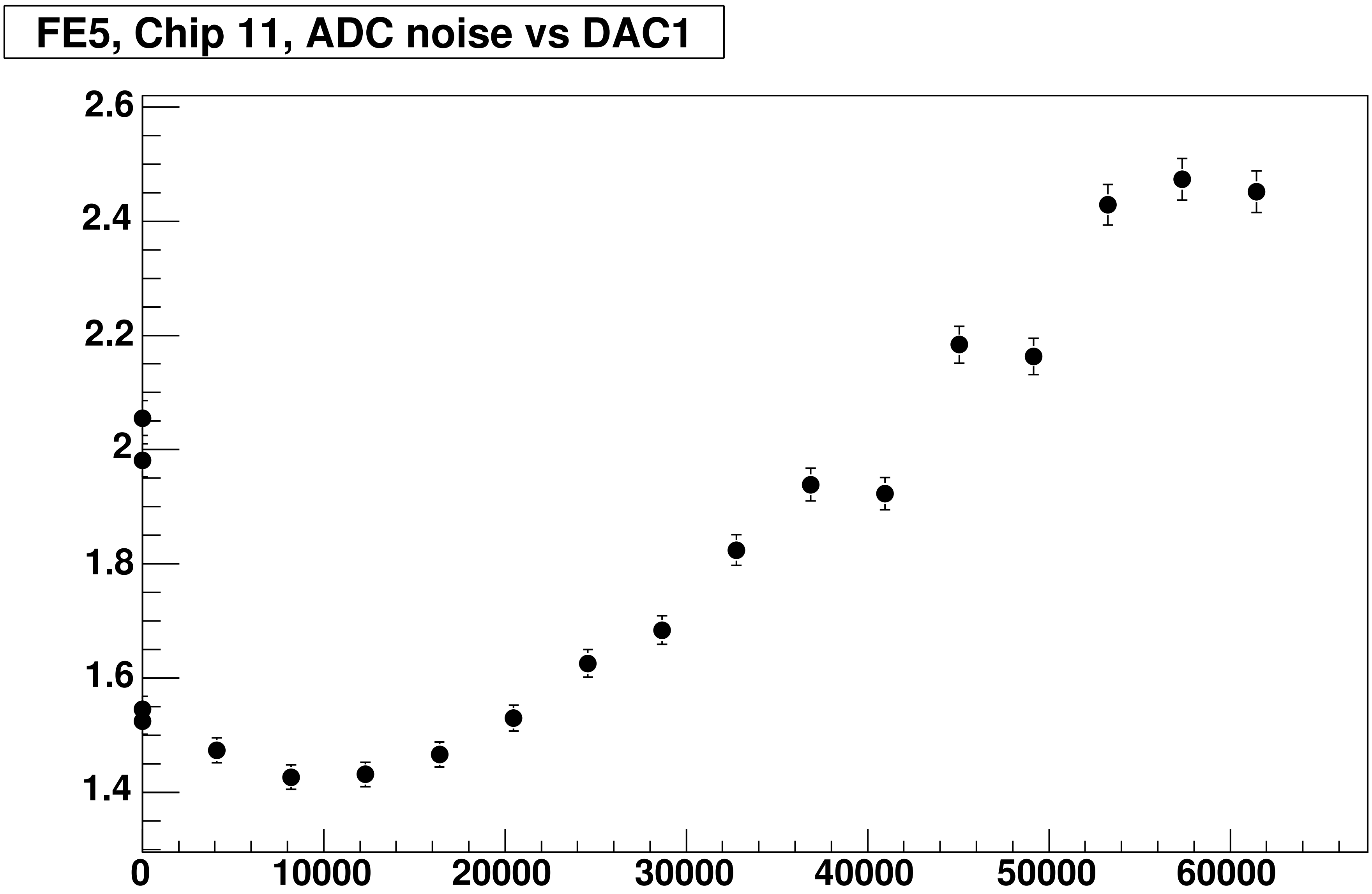


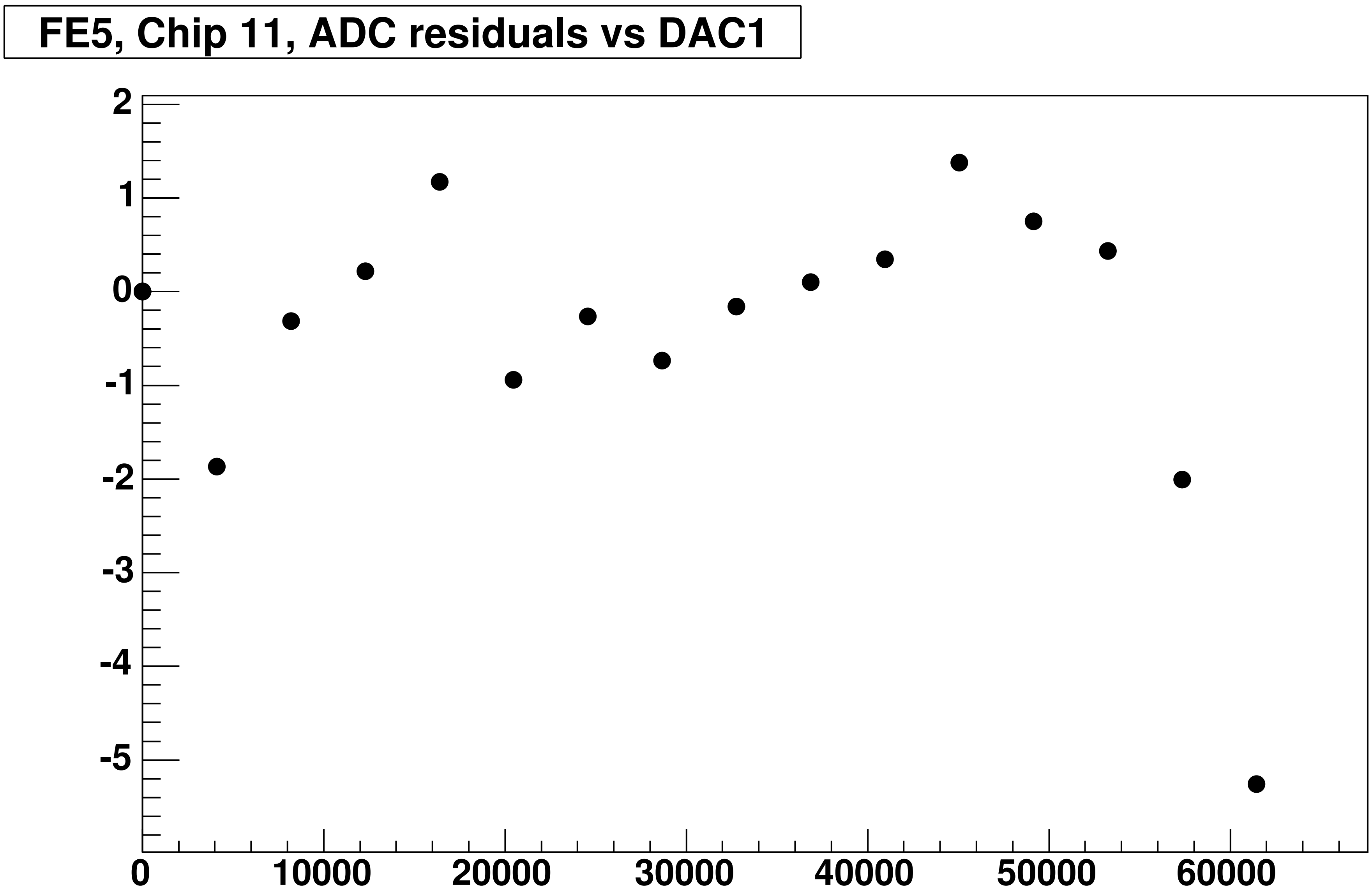
FE5, Chip 11, ADC noise vs DAC0
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

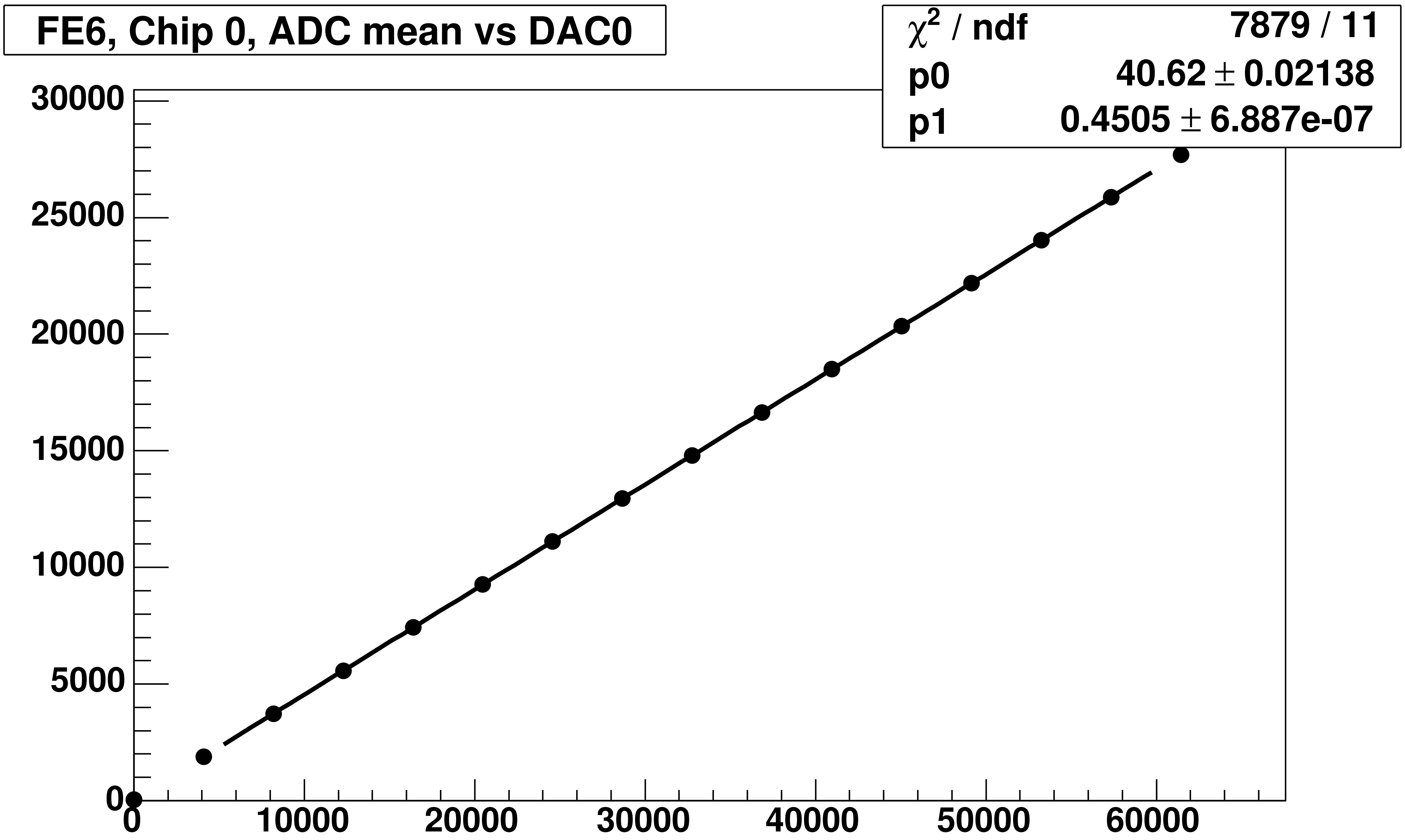

FE5, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



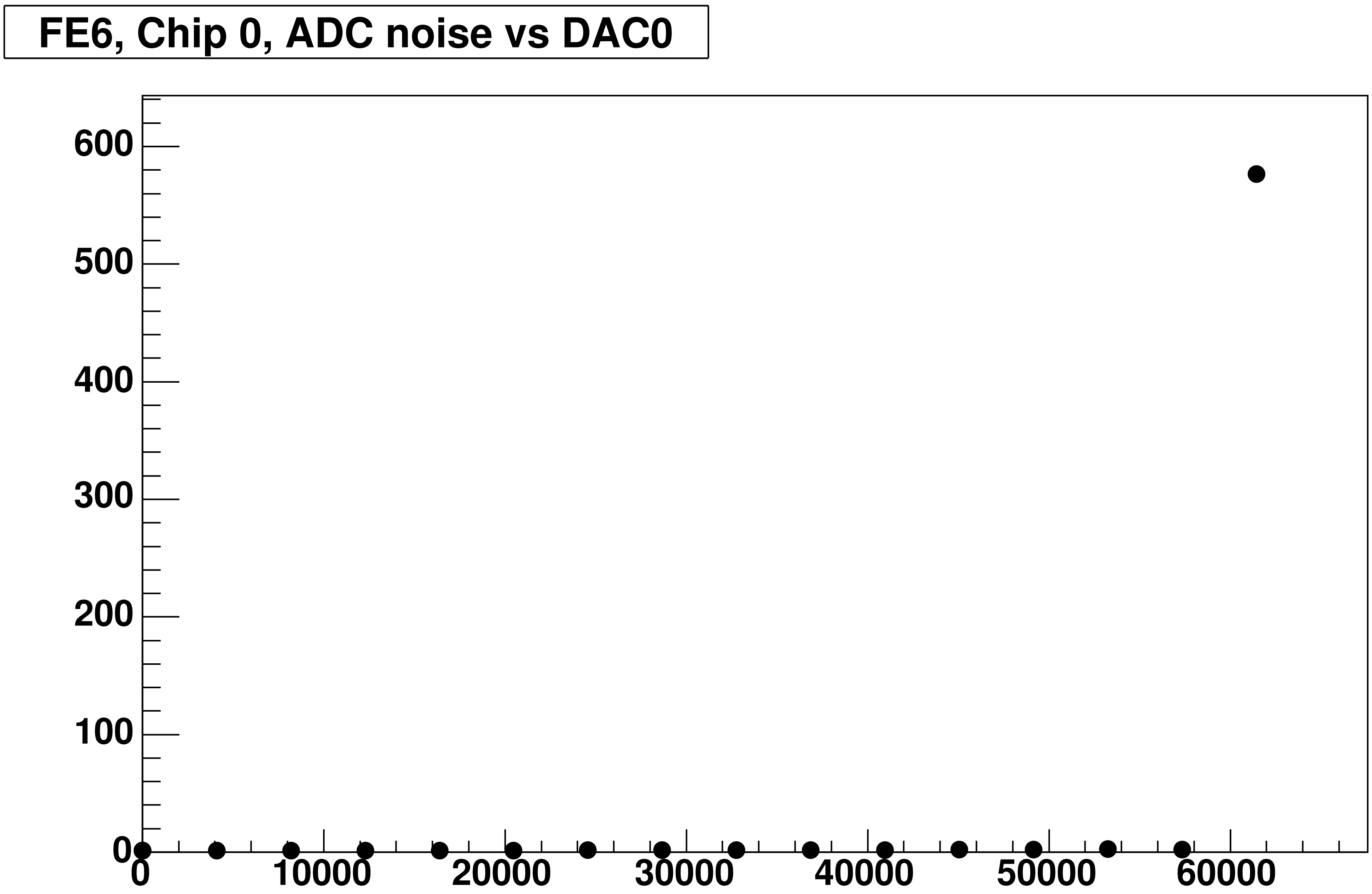
FE5, Chip 11, ADC mean vs DAC1
χ^2 / ndf 5905 / 11
p0 -49.82 ± 0.02173
p1 0.4506 ± 7.016e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

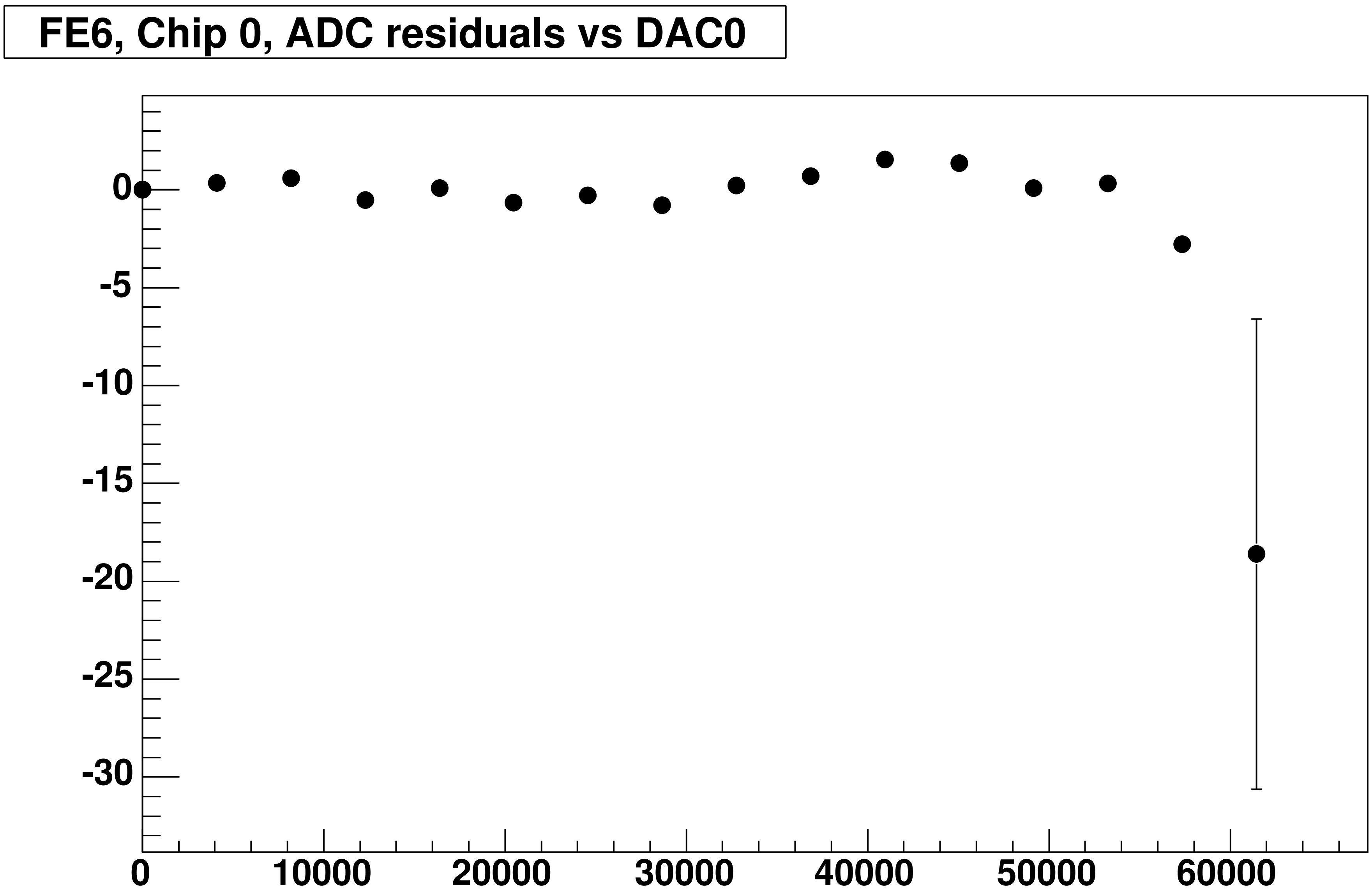

FE5, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

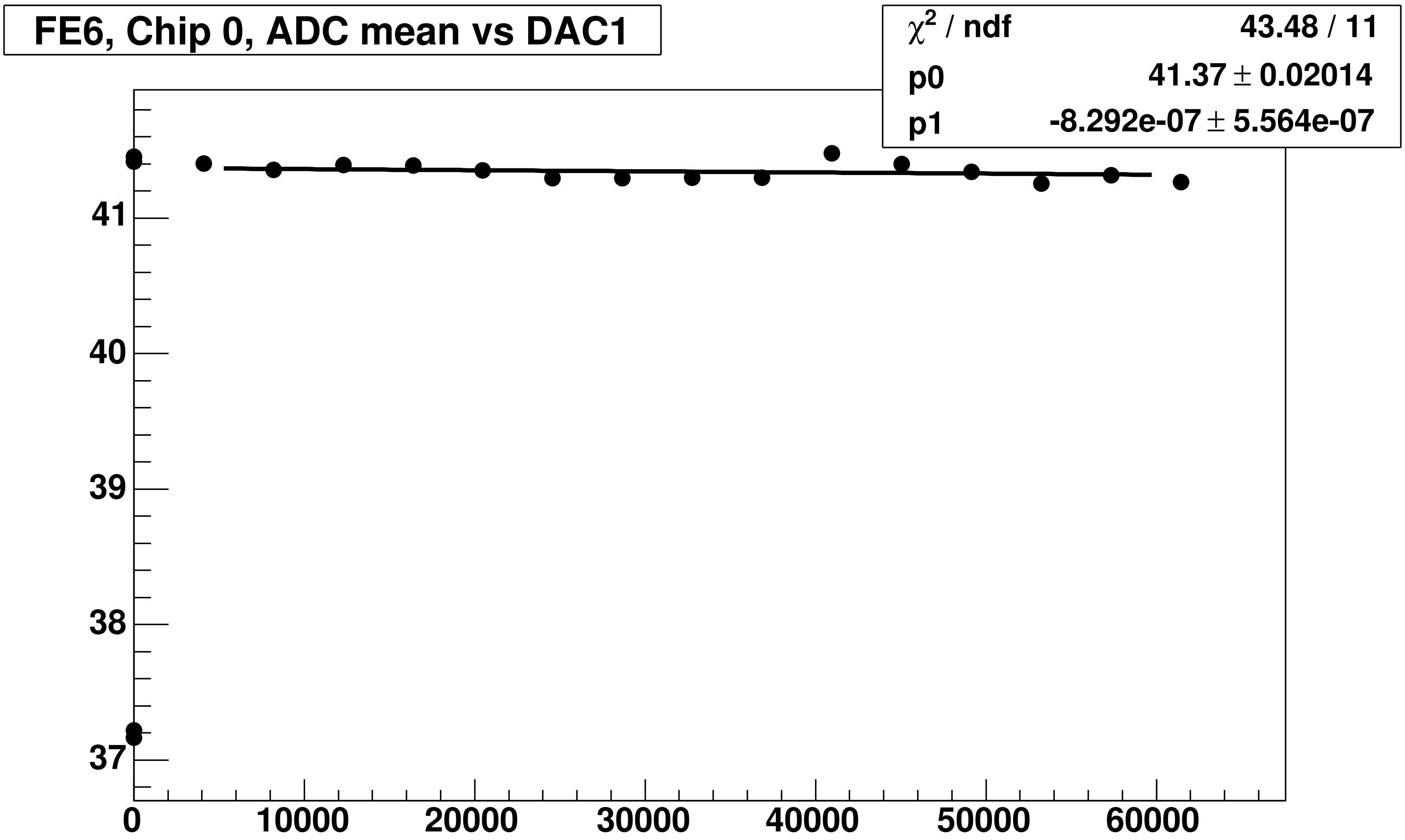


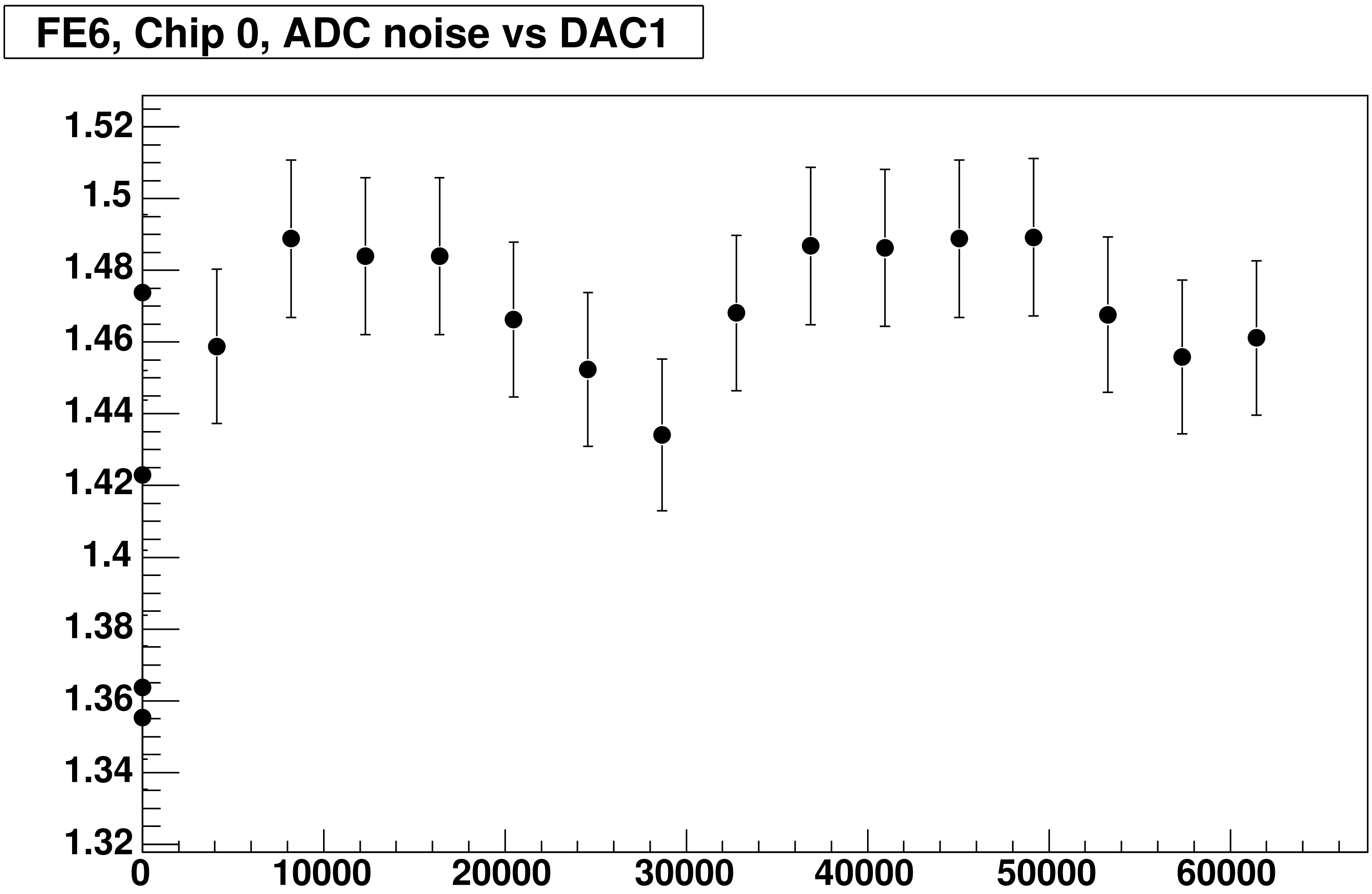
FE6, Chip 0, ADC mean vs DAC0
χ^2 / ndf 7879 / 11
p0 40.62 ± 0.02138
p1 0.4505 ± 6.887e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

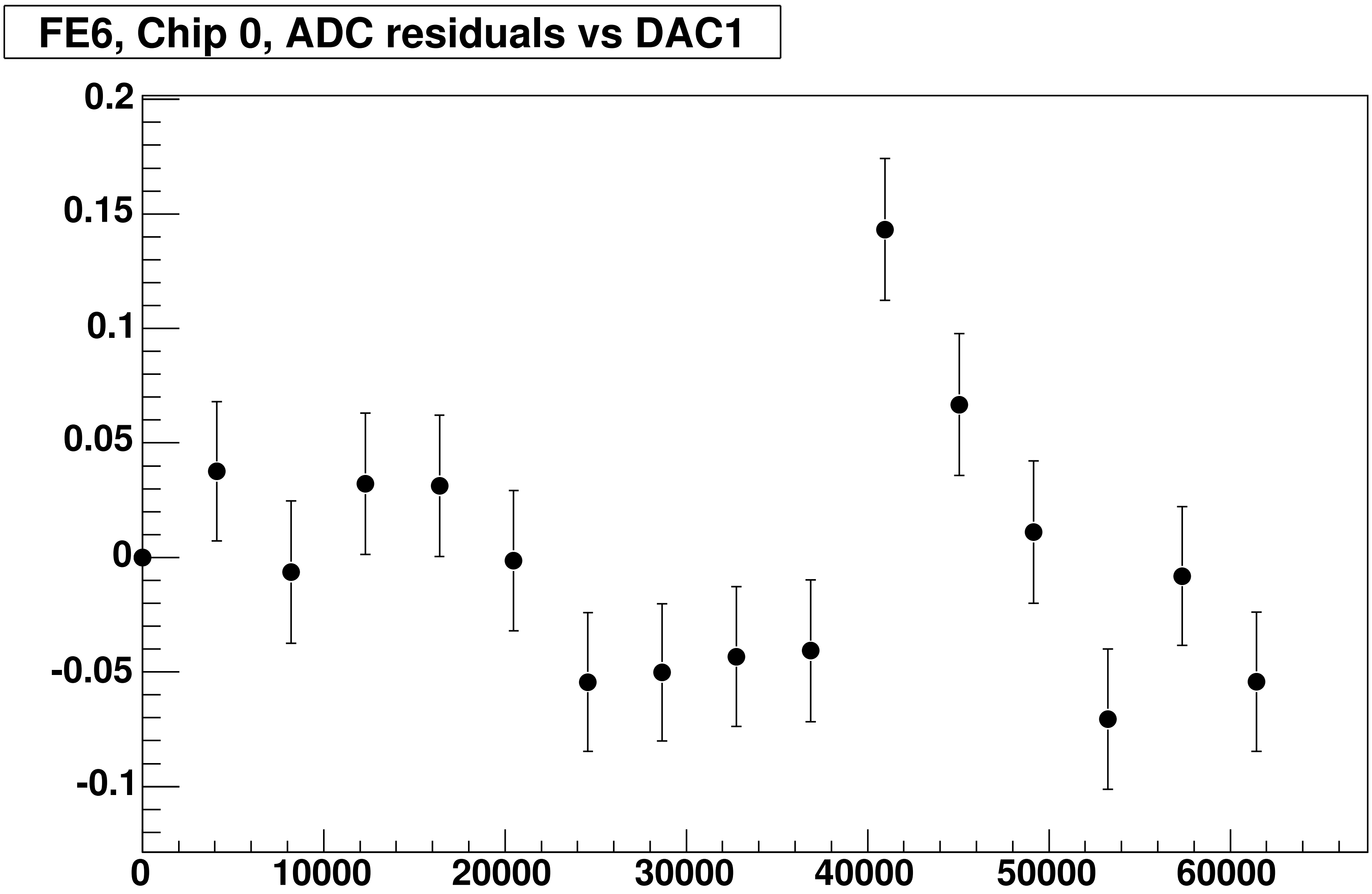


FE6, Chip 0, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

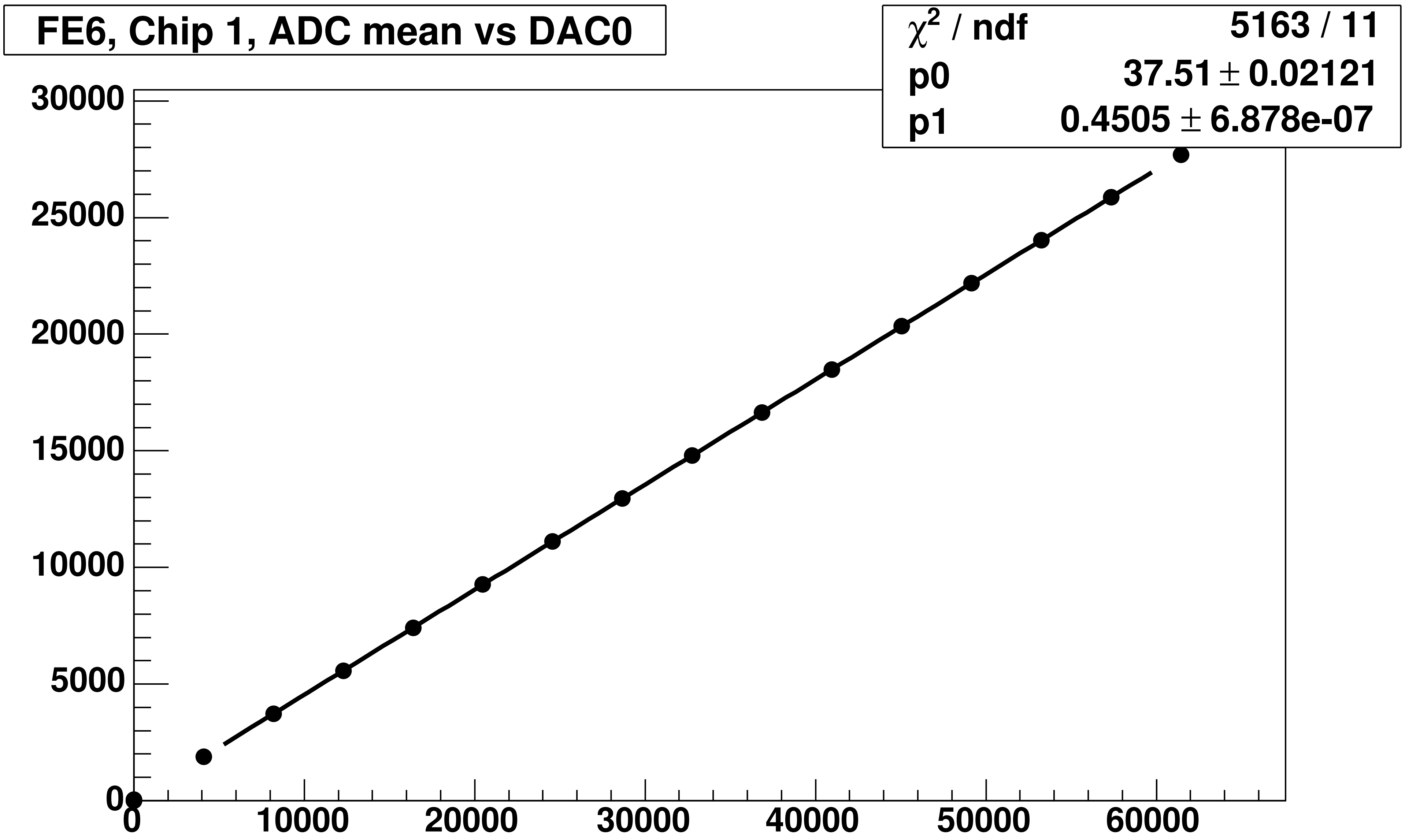

FE6, Chip 0, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

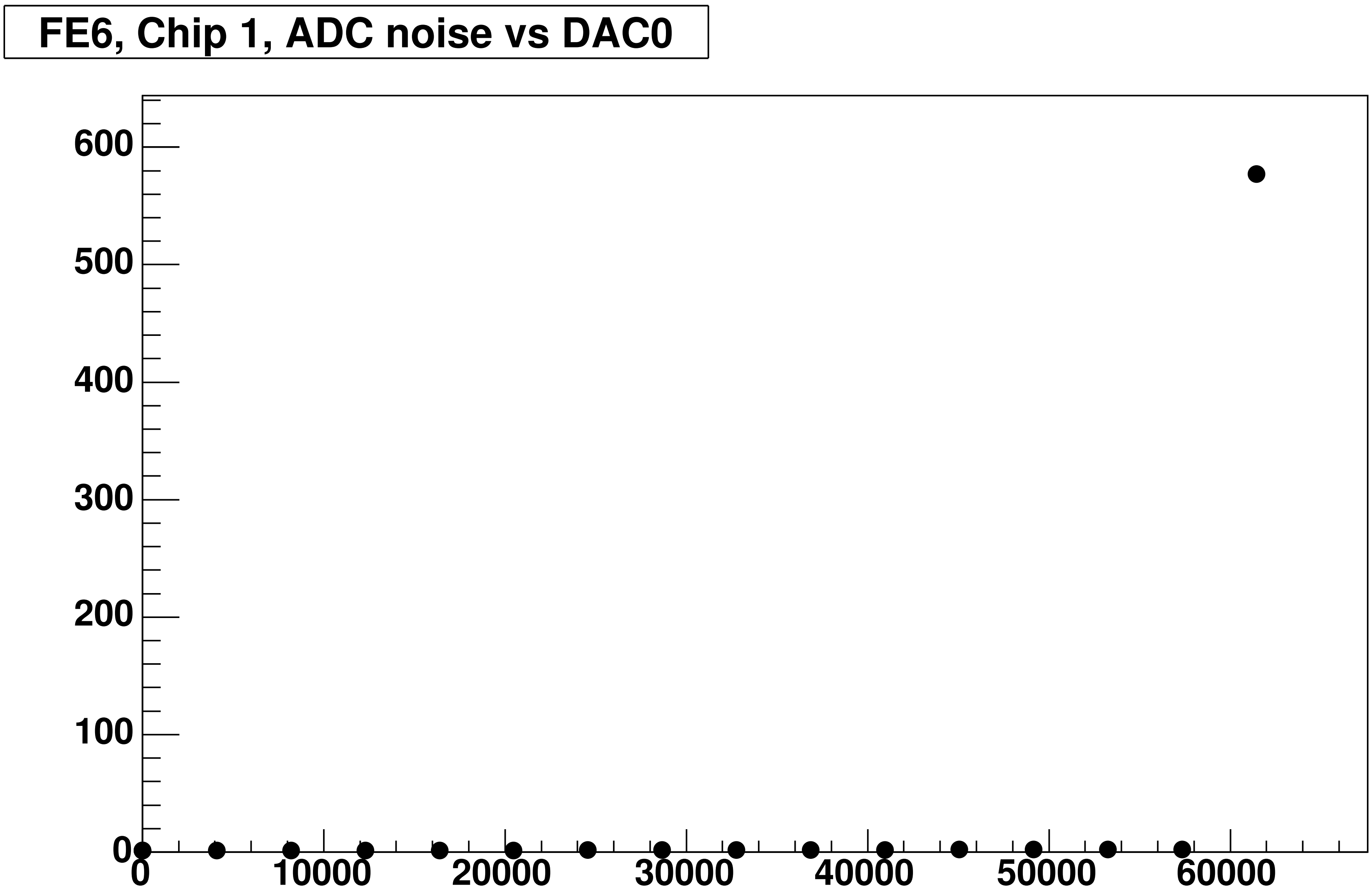

FE6, Chip 0, ADC mean vs DAC1
χ^2 / ndf 43.48 / 11
p0 41.37 ± 0.02014
p1 -8.292e-07 ± 5.564e-07
41
40
39
38
37
0
10000
20000
30000
40000
50000
60000


FE6, Chip 0, ADC noise vs DAC1
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
1.34
1.32
0
10000
20000
30000
40000
50000
60000

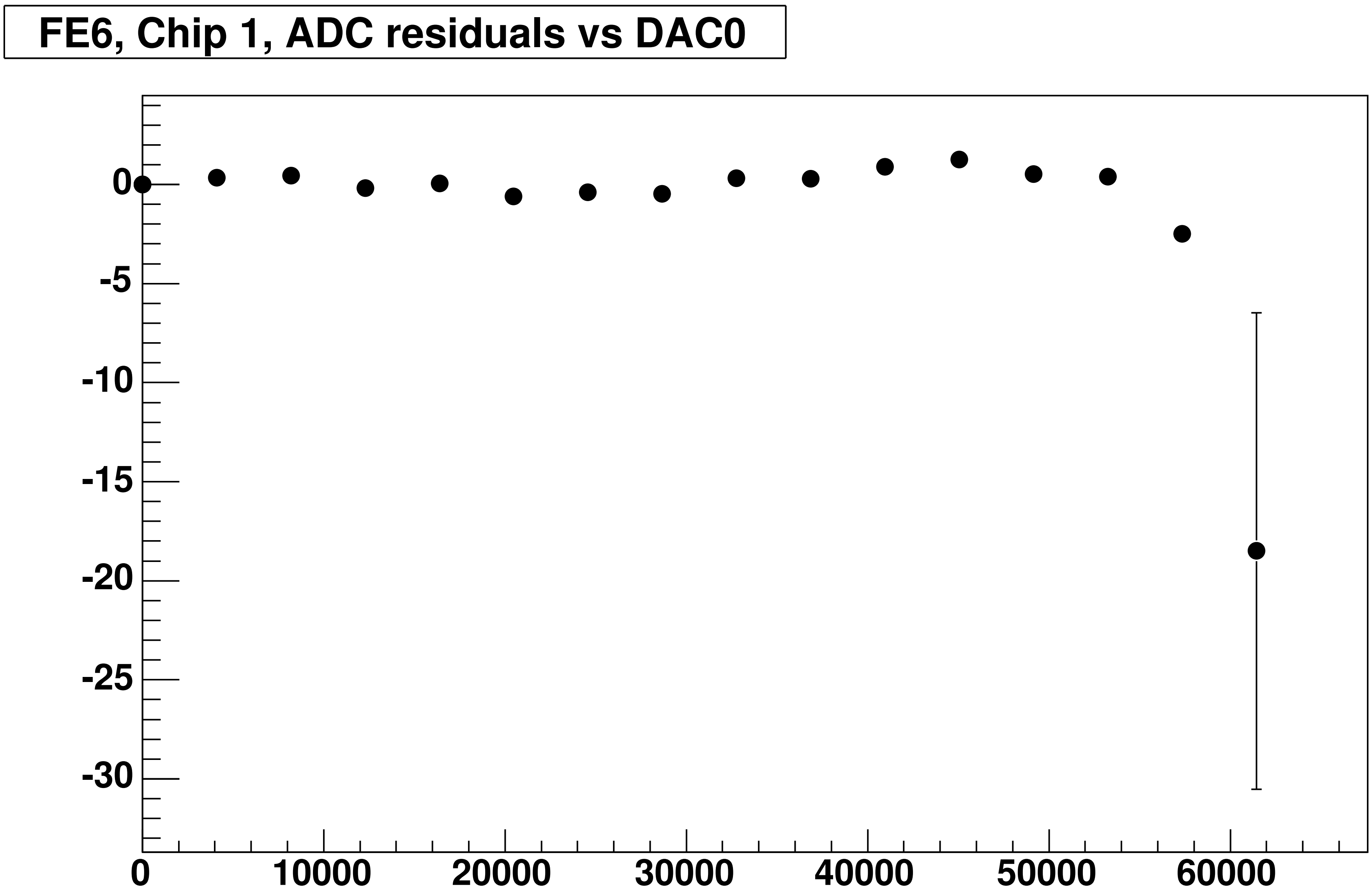


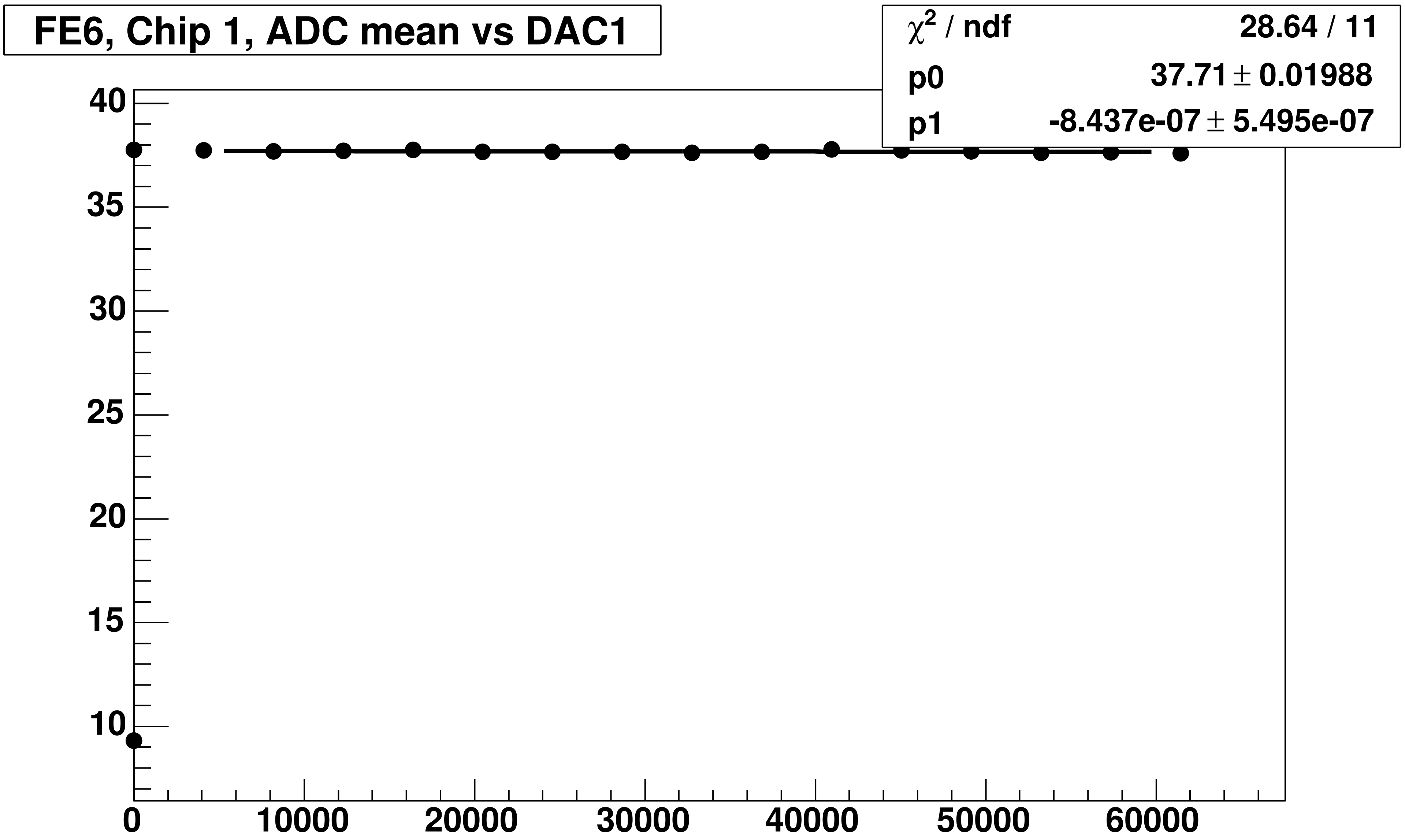
FE6, Chip 0, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000


FE6, Chip 1, ADC mean vs DAC0
χ^2 / ndf 5163 / 11
p0 37.51 ± 0.02121
p1 0.4505 ± 6.878e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

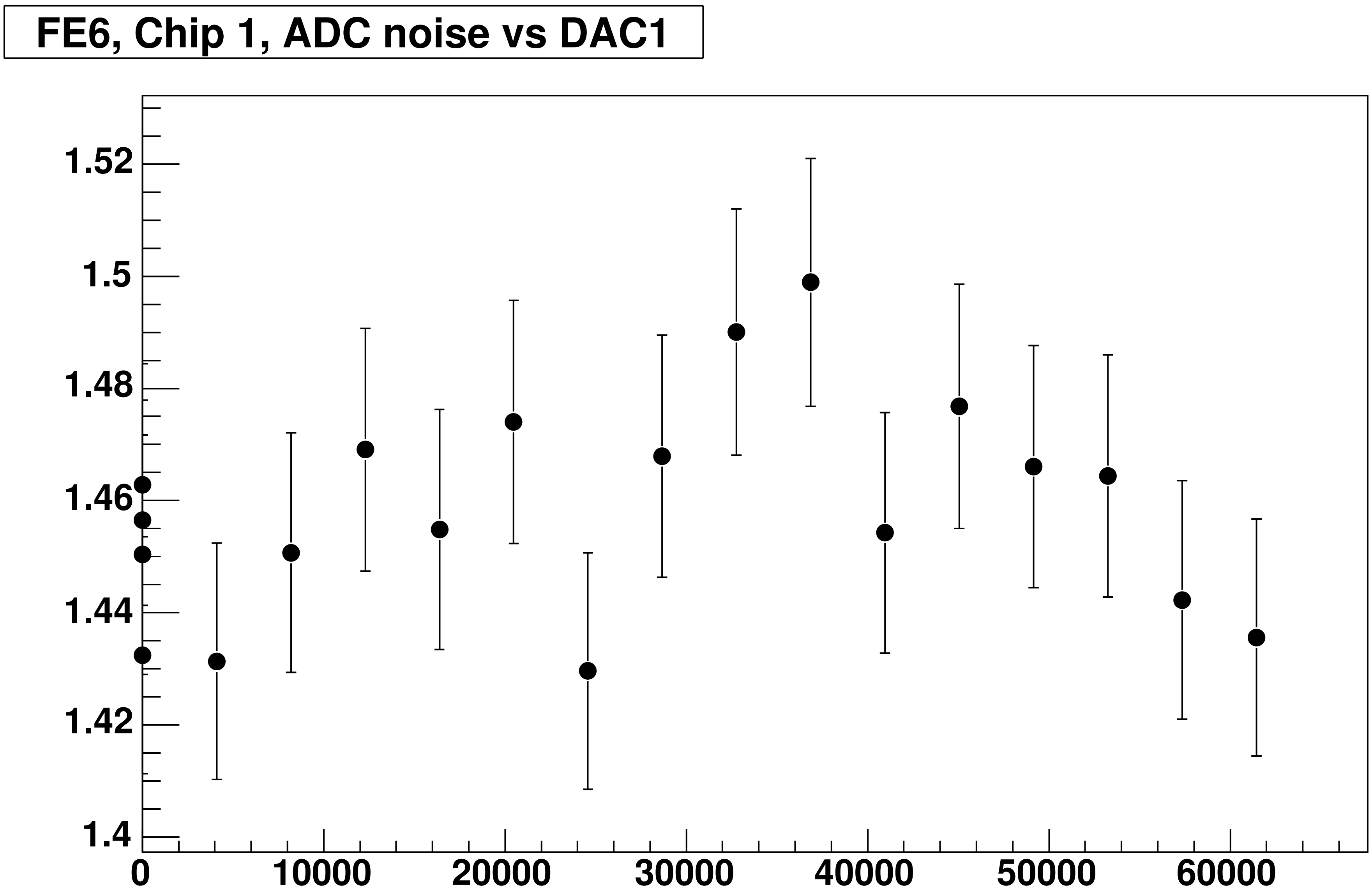


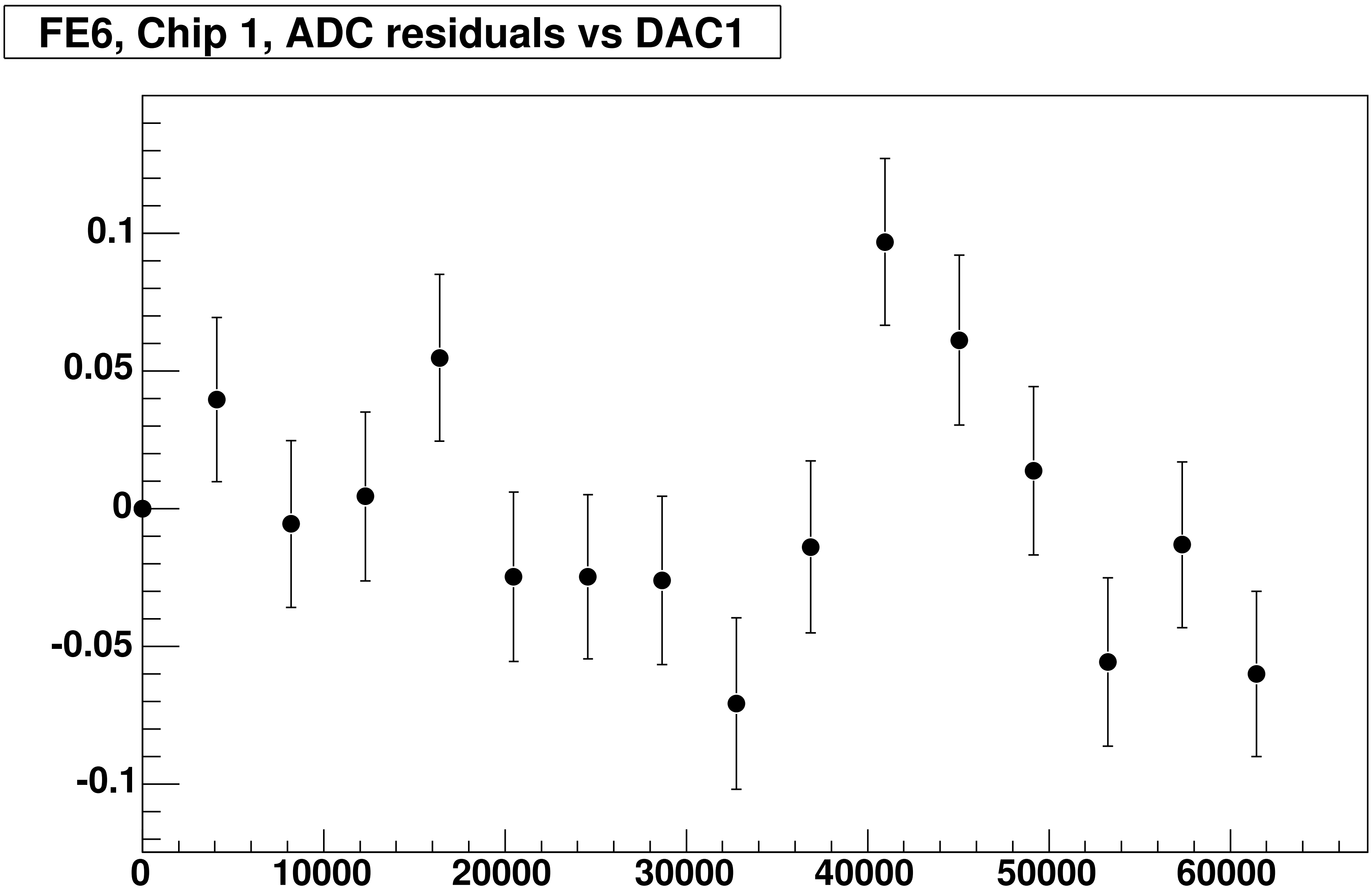
FE6, Chip 1, ADC noise vs DAC0
0
100
200
300
400
500
600
0
10000
20000
30000
40000
50000
60000

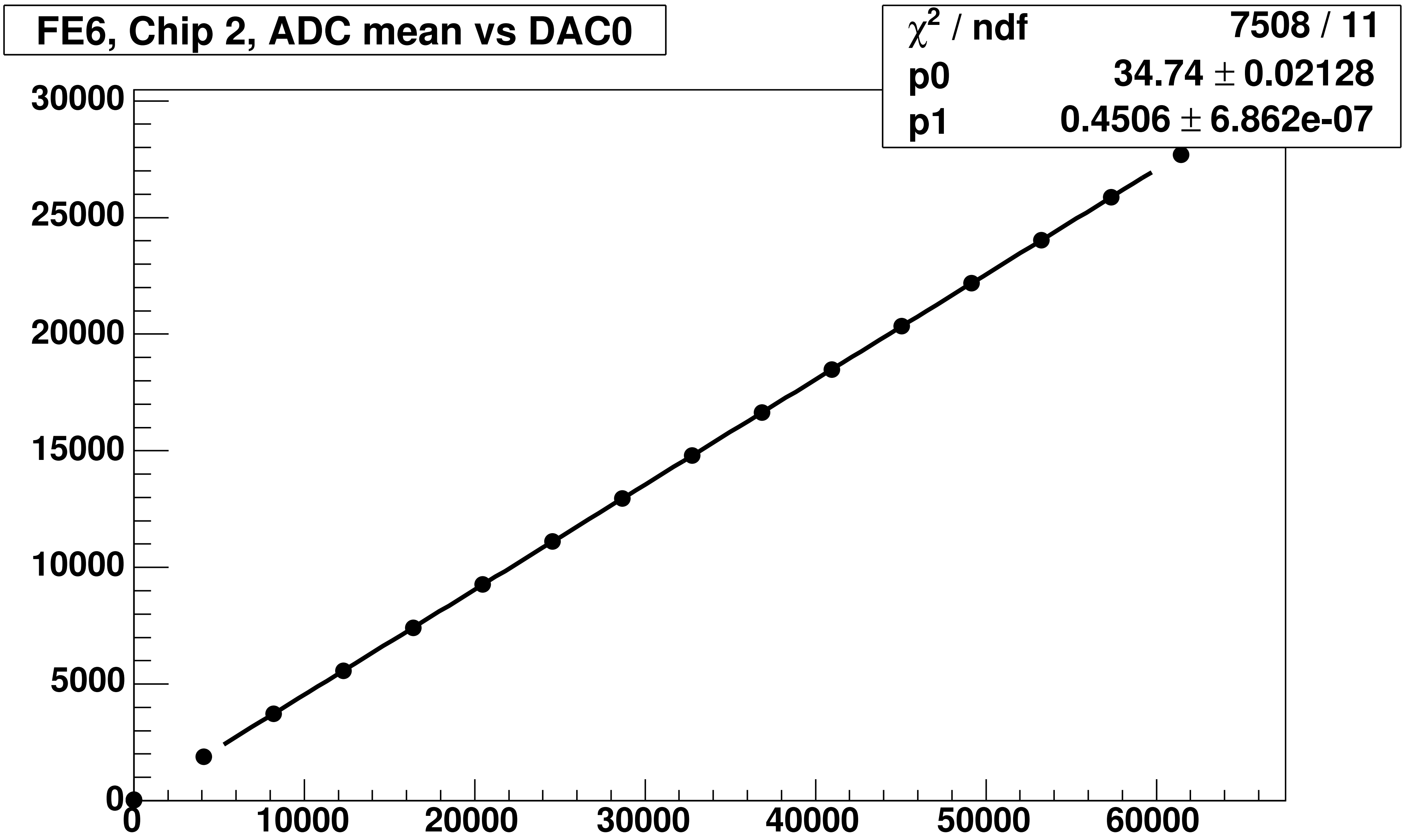

FE6, Chip 1, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000



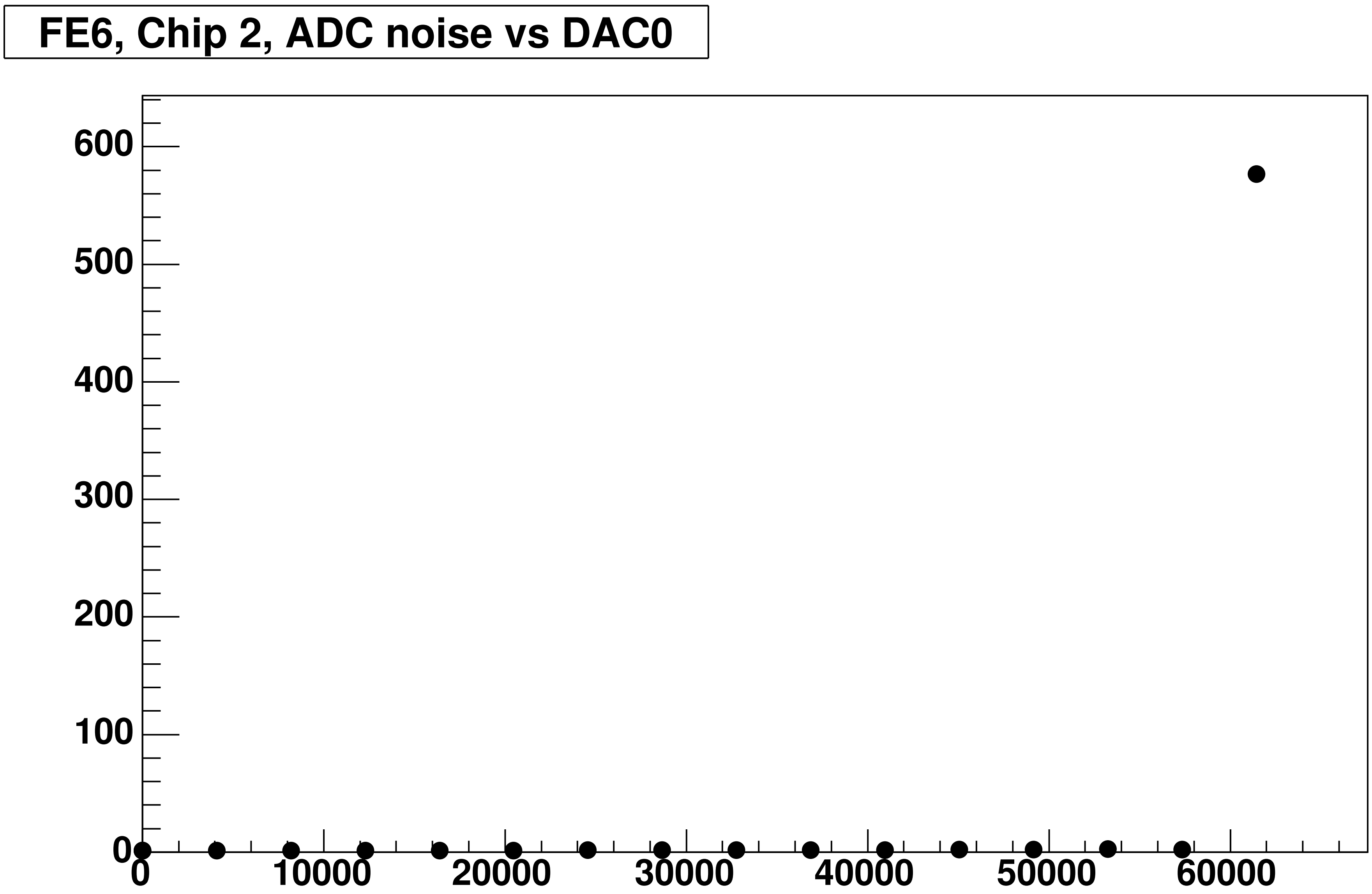
FE6, Chip 1, ADC mean vs DAC1
χ² / ndf 28.64 / 11
p0 37.71 ± 0.01988
p1 -8.437e-07 ± 5.495e-07
40
35
30
25
20
15
10
0
10000
20000
30000
40000
50000
60000


FE6, Chip 1, ADC noise vs DAC1
1.52
1.5
1.48
1.46
1.44
1.42
1.4
0
10000
20000
30000
40000
50000
60000

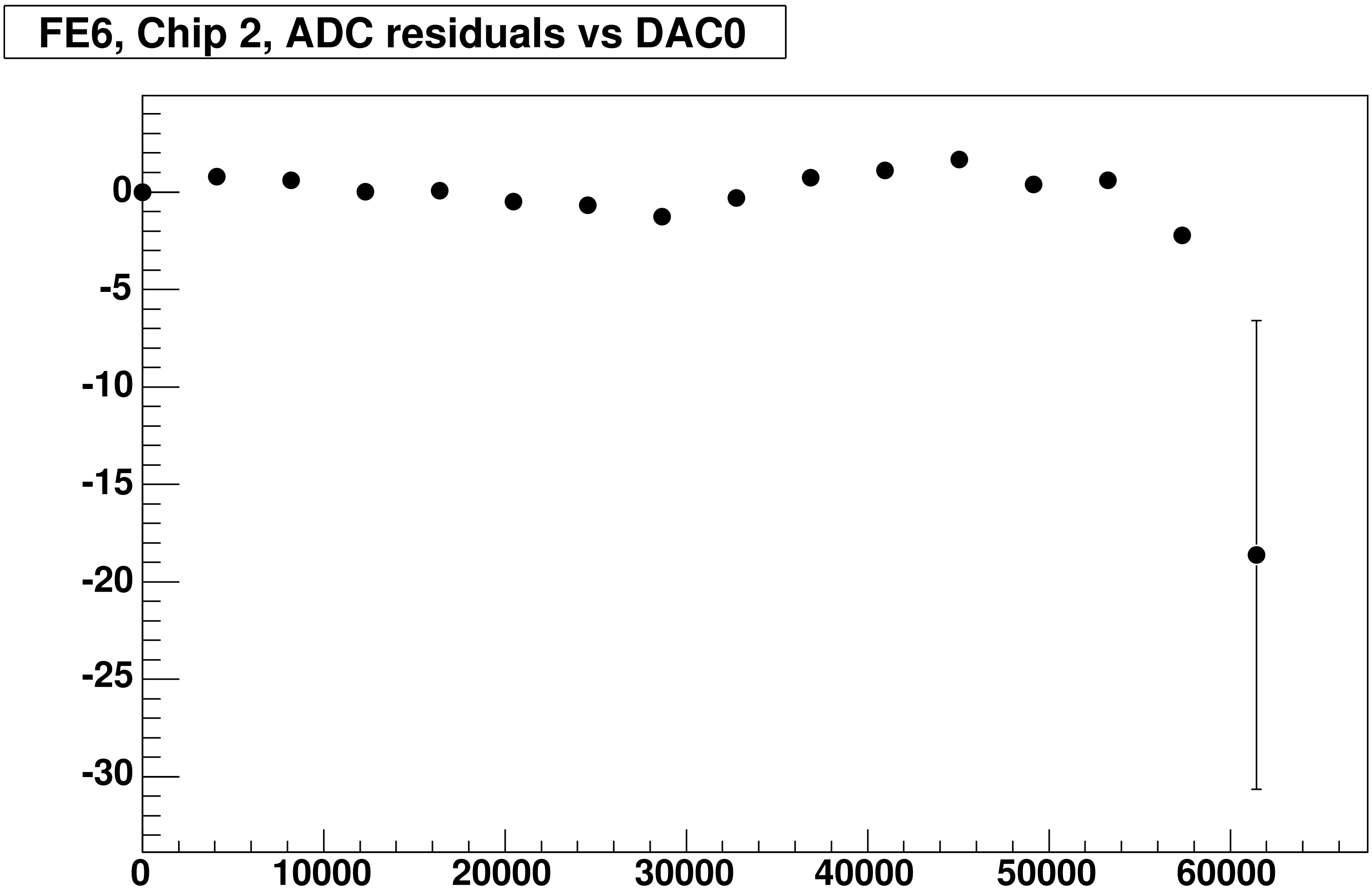

FE6, Chip 1, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

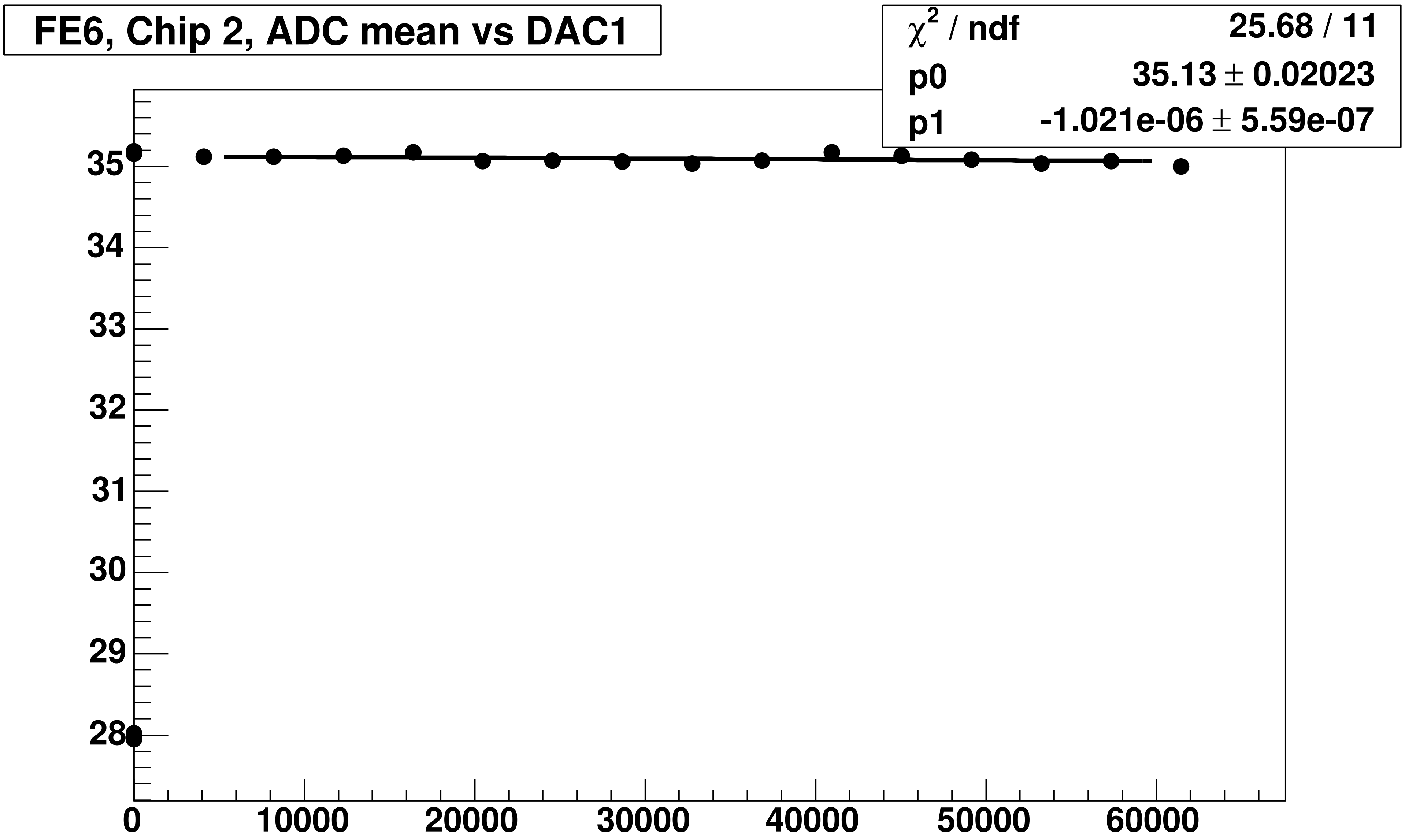


FE6, Chip 2, ADC mean vs DAC0
χ^2 / ndf 7508 / 11
p0 34.74 ± 0.02128
p1 0.4506 ± 6.862e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

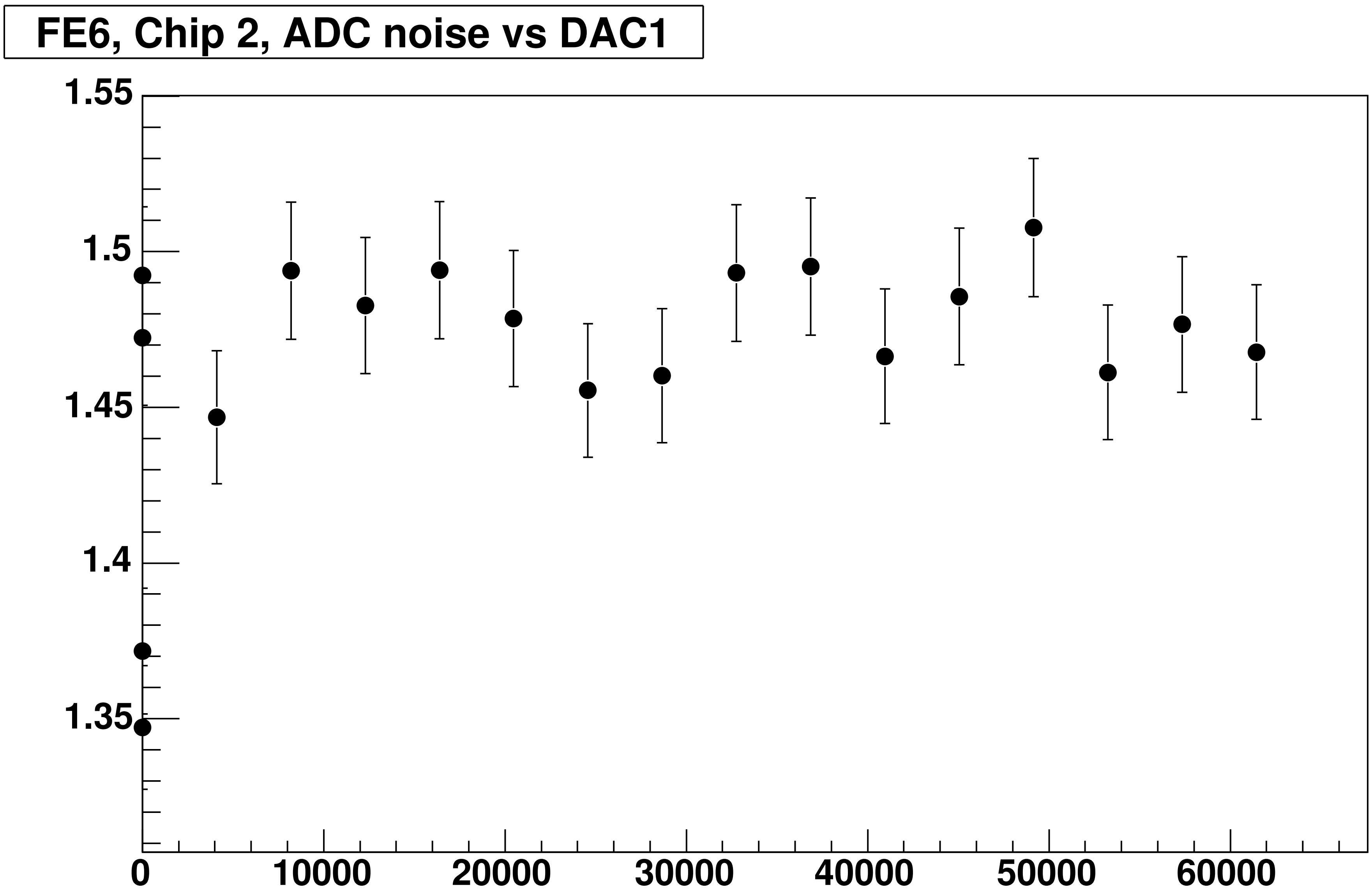


FE6, Chip 2, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

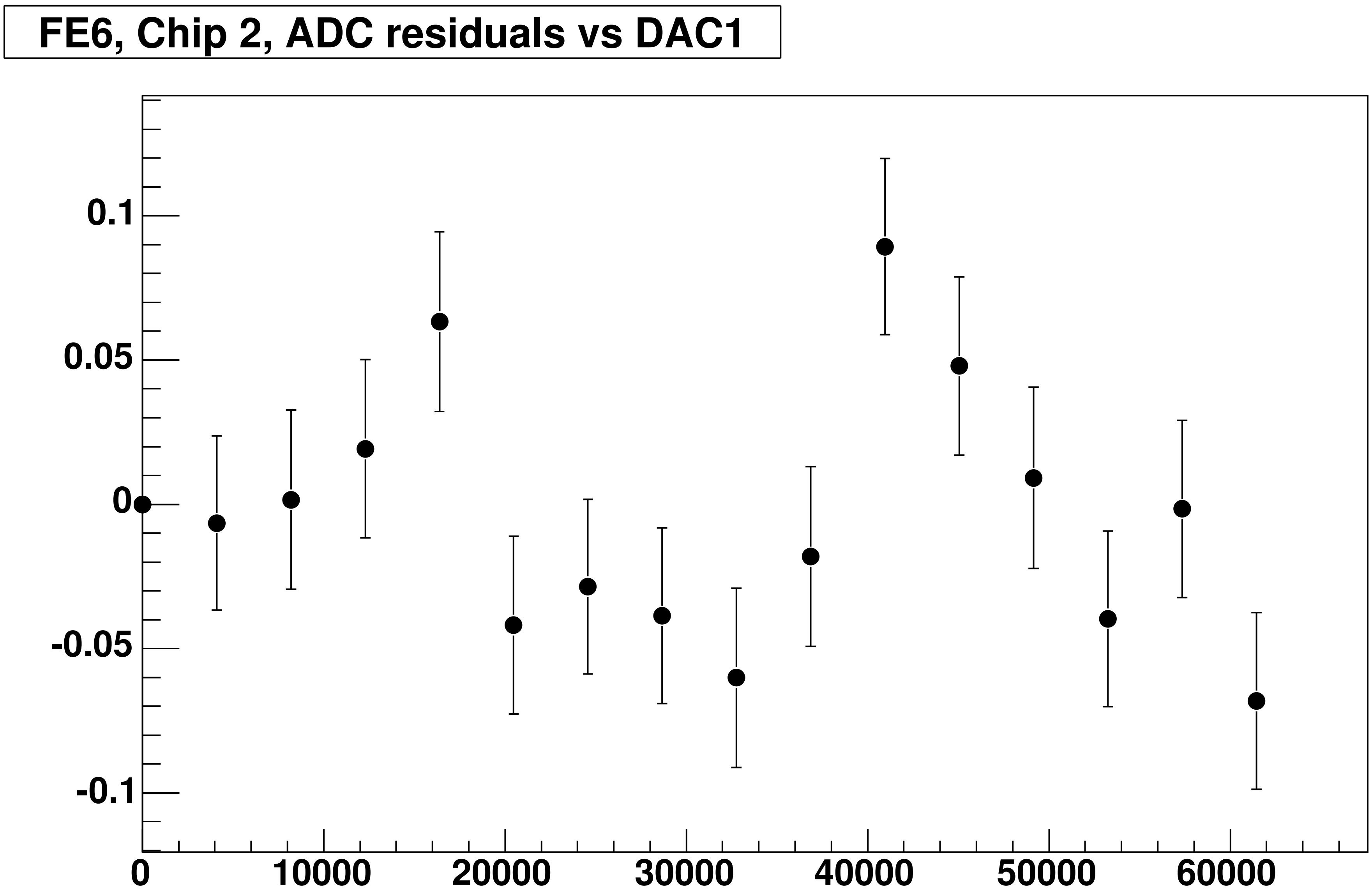

FE6, Chip 2, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

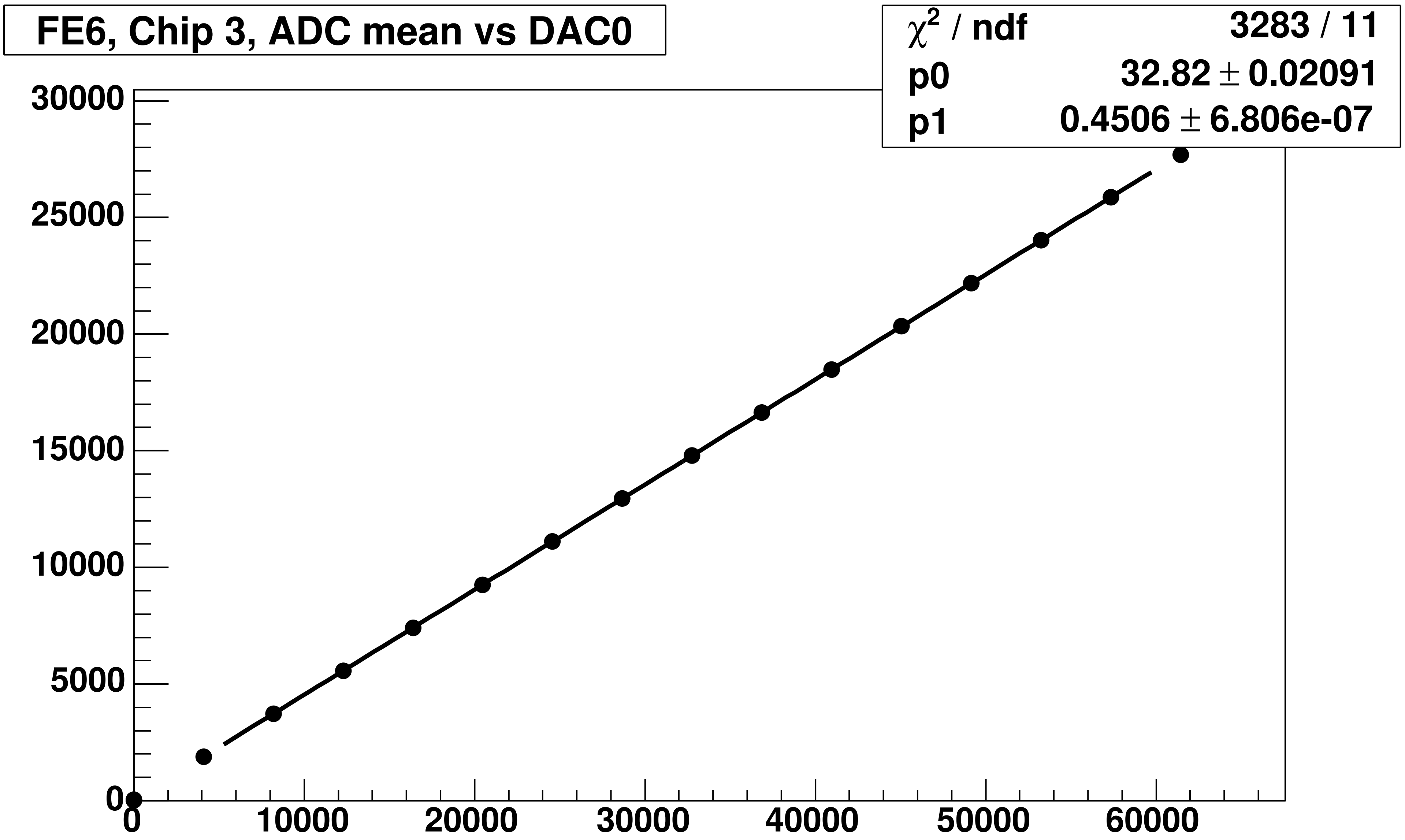


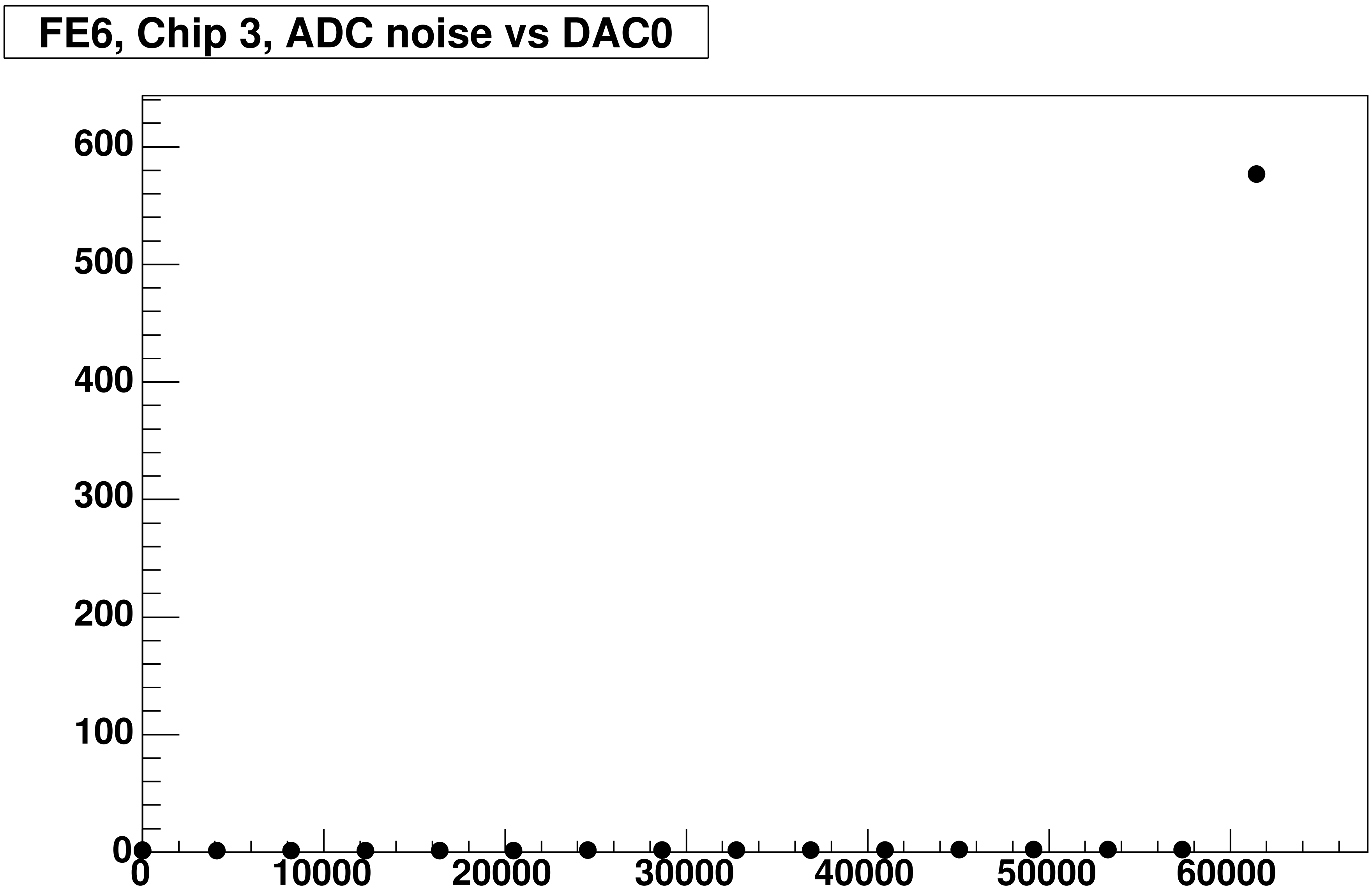
FE6, Chip 2, ADC mean vs DAC1
χ2 / ndf 25.68 / 11
p0 35.13 ± 0.02023
p1 -1.021e-06 ± 5.59e-07
35
34
33
32
31
30
29
28
0
10000
20000
30000
40000
50000
60000

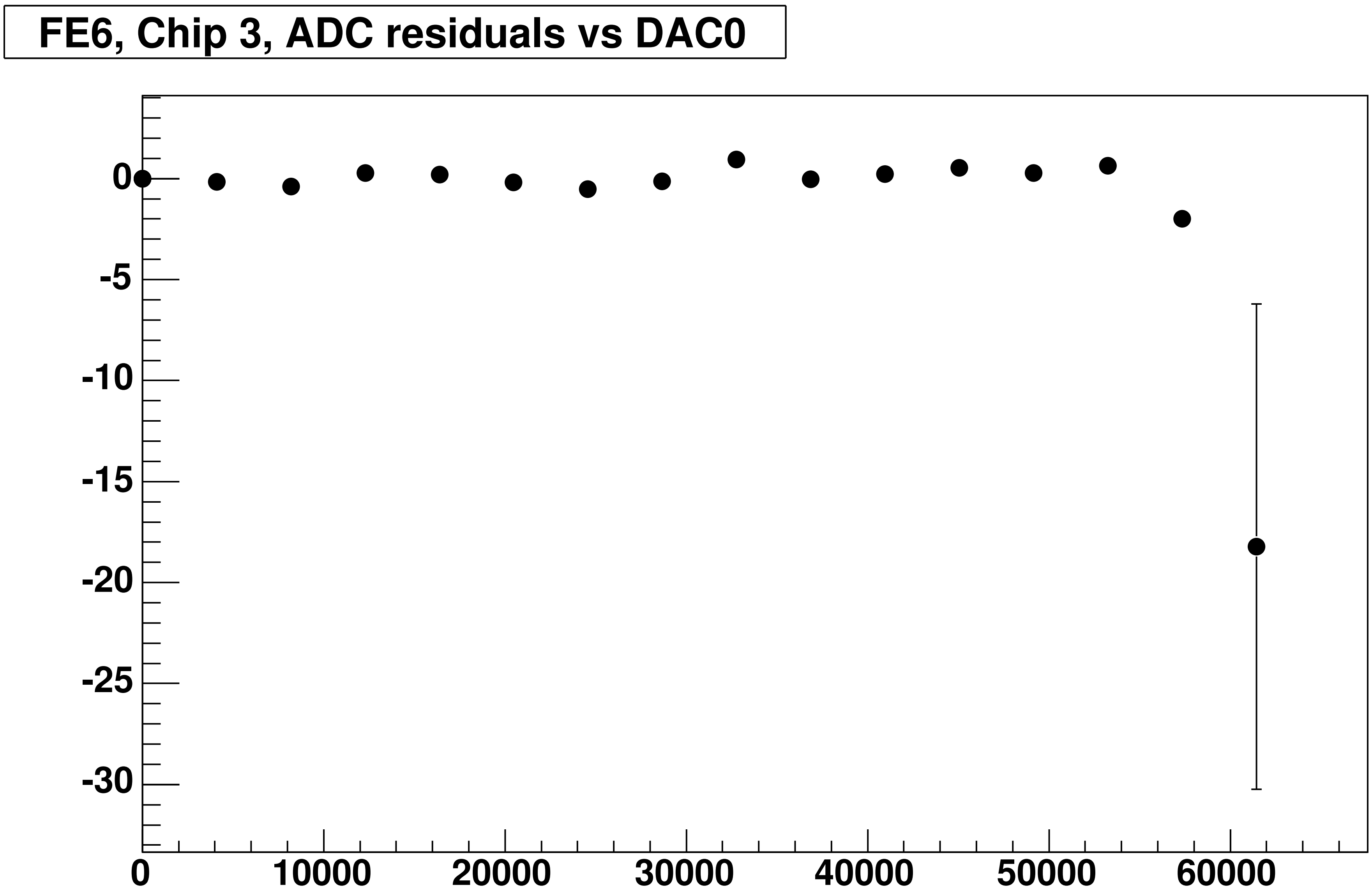


FE6, Chip 2, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

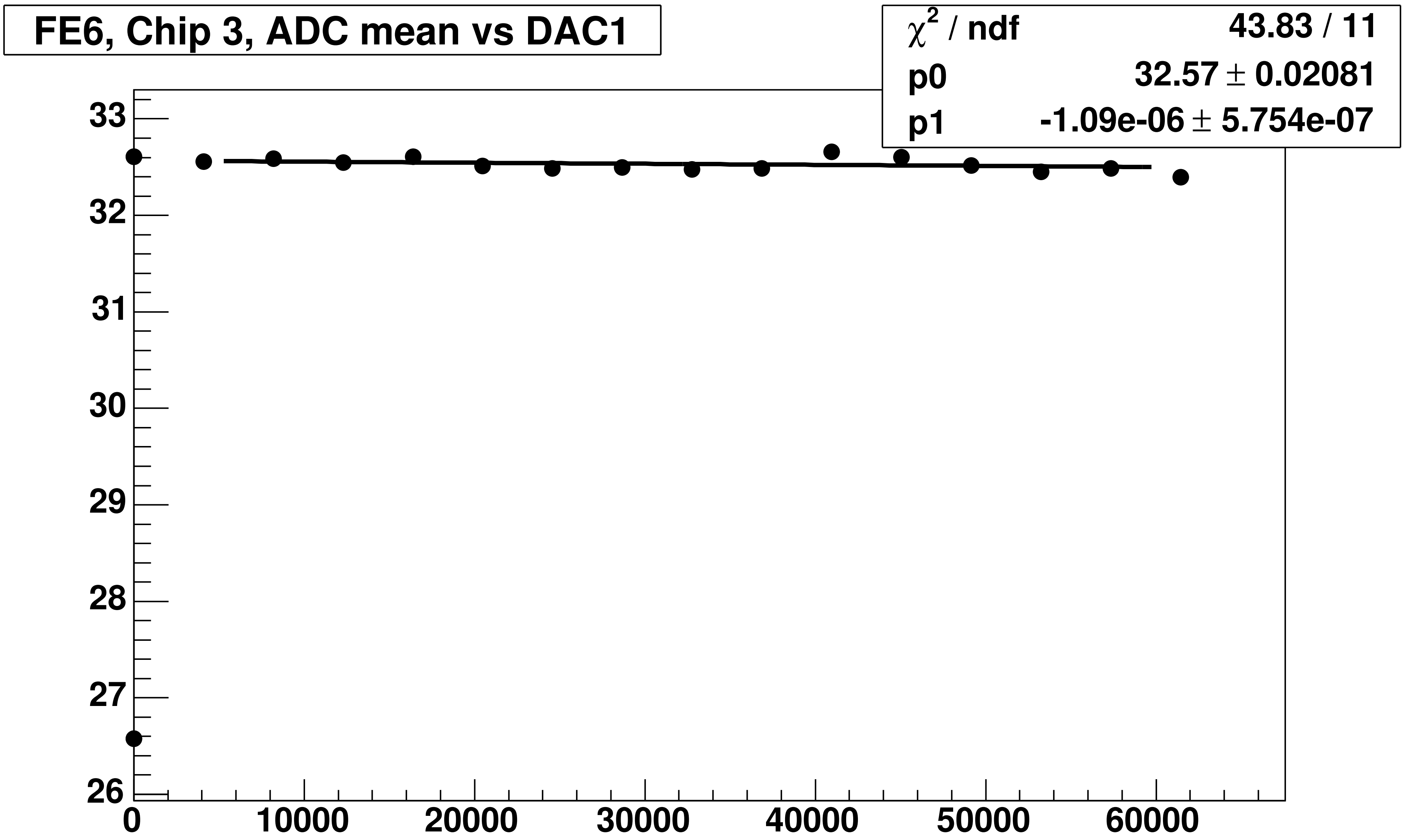

FE6, Chip 2, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000


FE6, Chip 3, ADC mean vs DAC0
χ^2 / ndf 3283 / 11
p0 32.82 ± 0.02091
p1 0.4506 ± 6.806e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

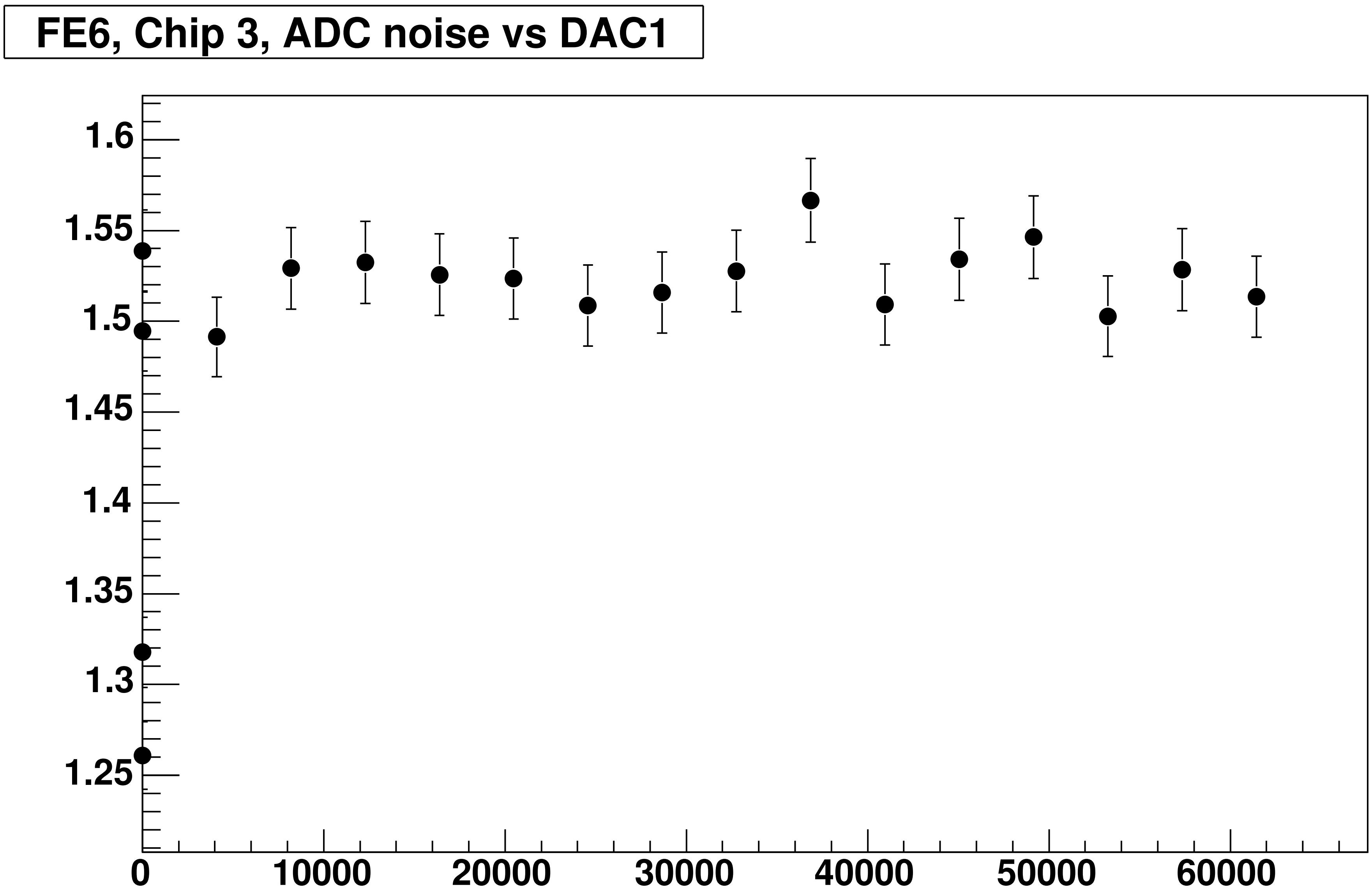

FE6, Chip 3, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

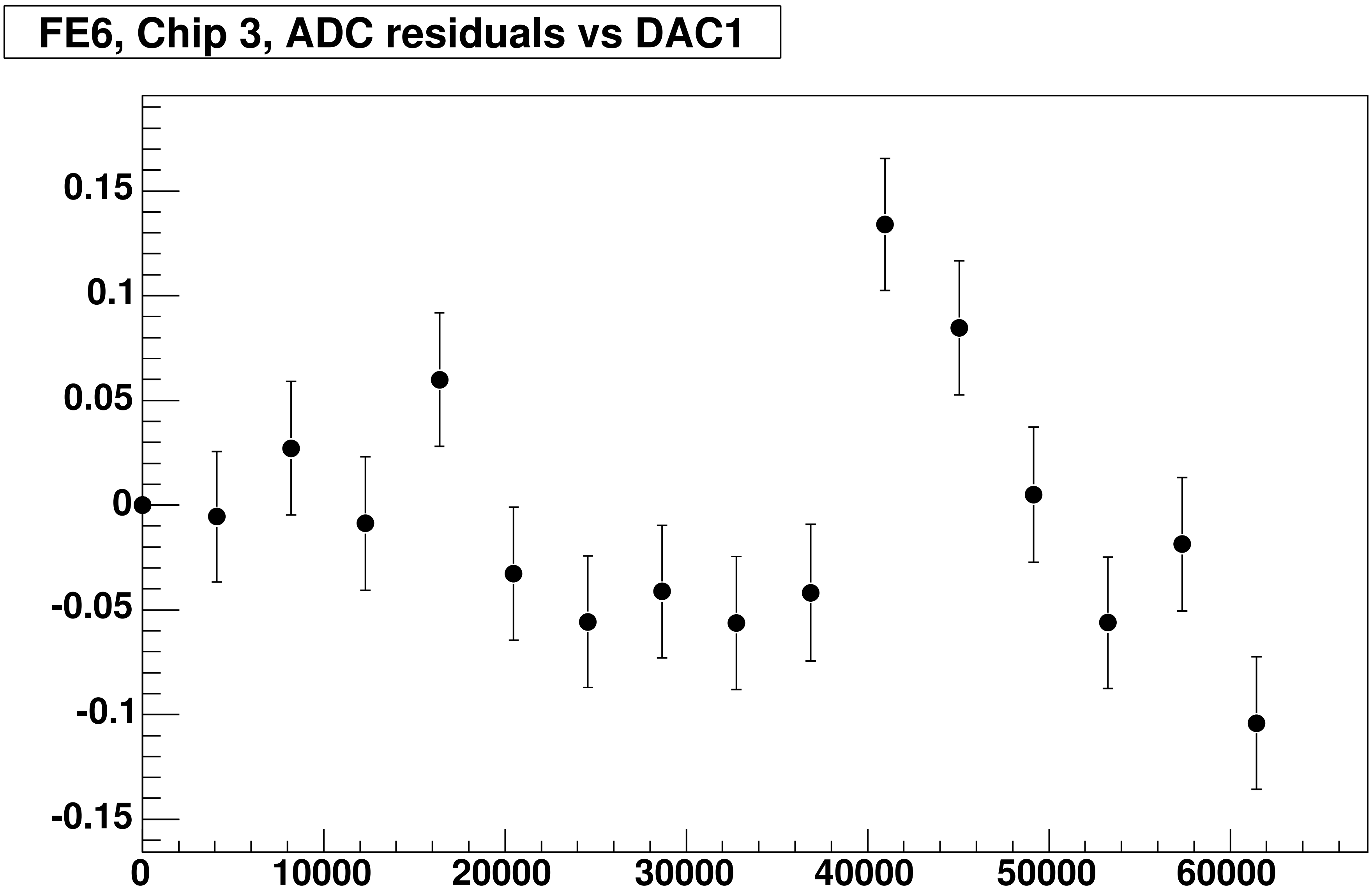


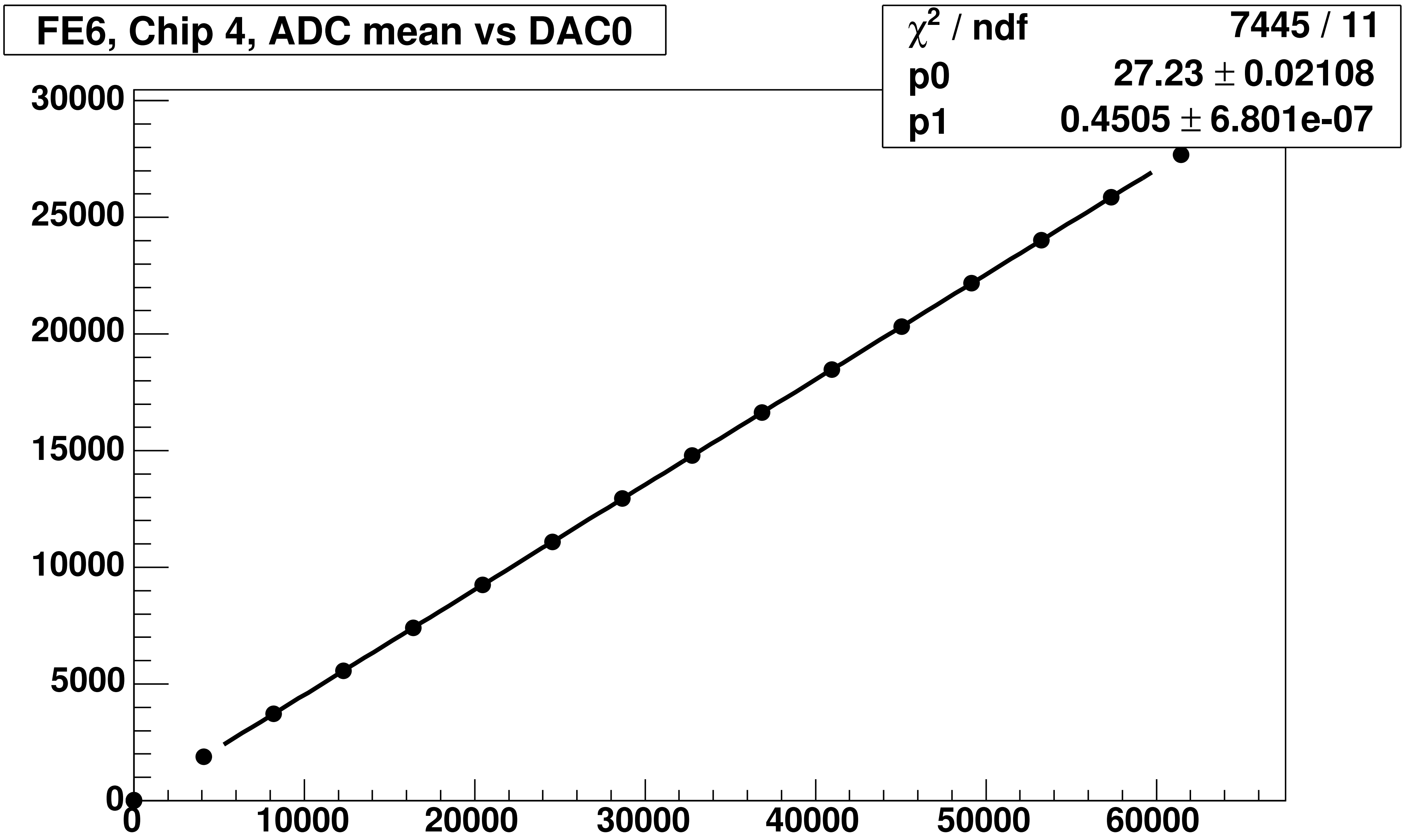
FE6, Chip 3, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

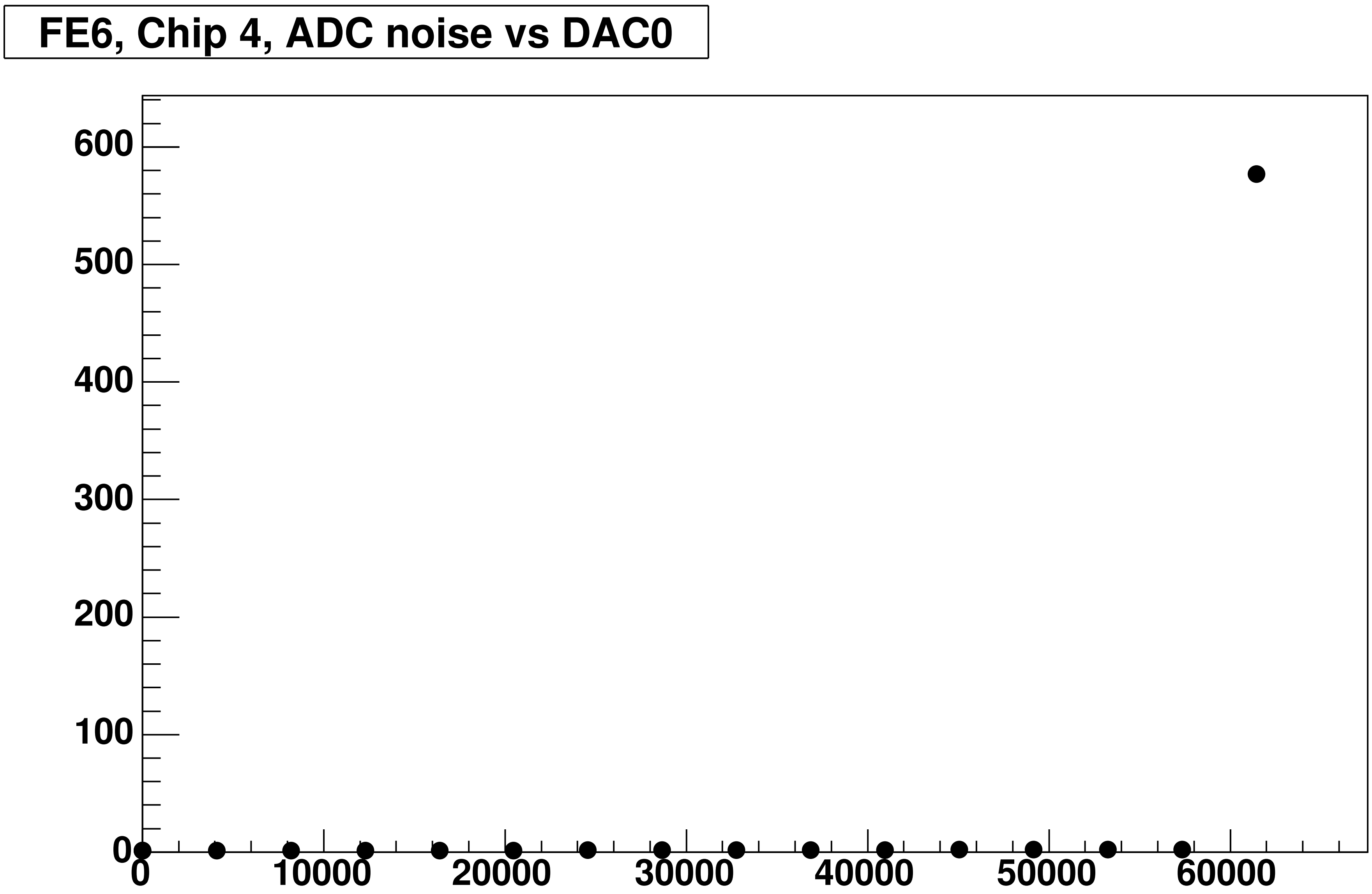


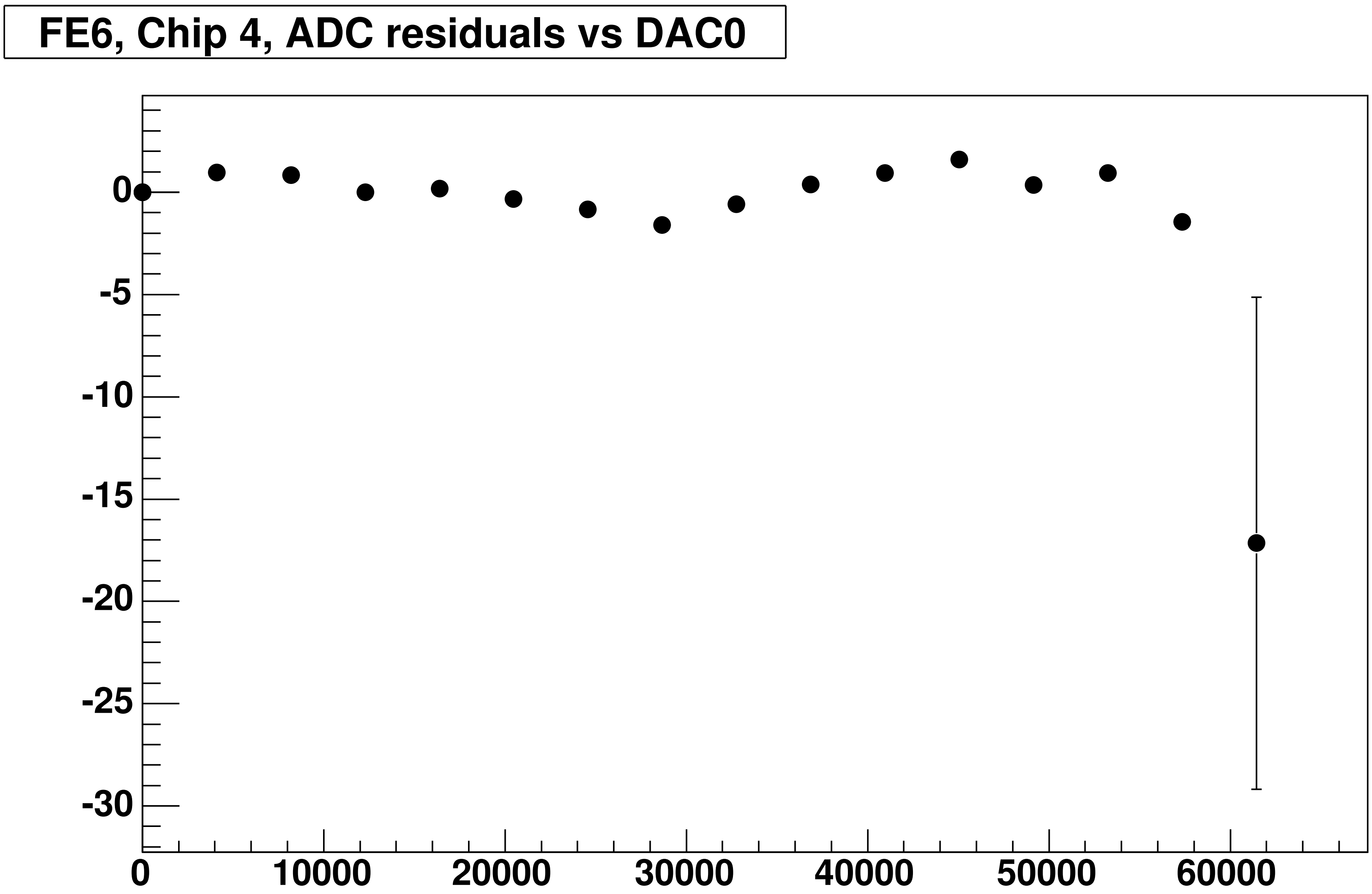
FE6, Chip 3, ADC mean vs DAC1
χ^2 / ndf 43.83 / 11
p0 32.57 ± 0.02081
p1 -1.09e-06 ± 5.754e-07
33
32
31
30
29
28
27
26
0
10000
20000
30000
40000
50000
60000

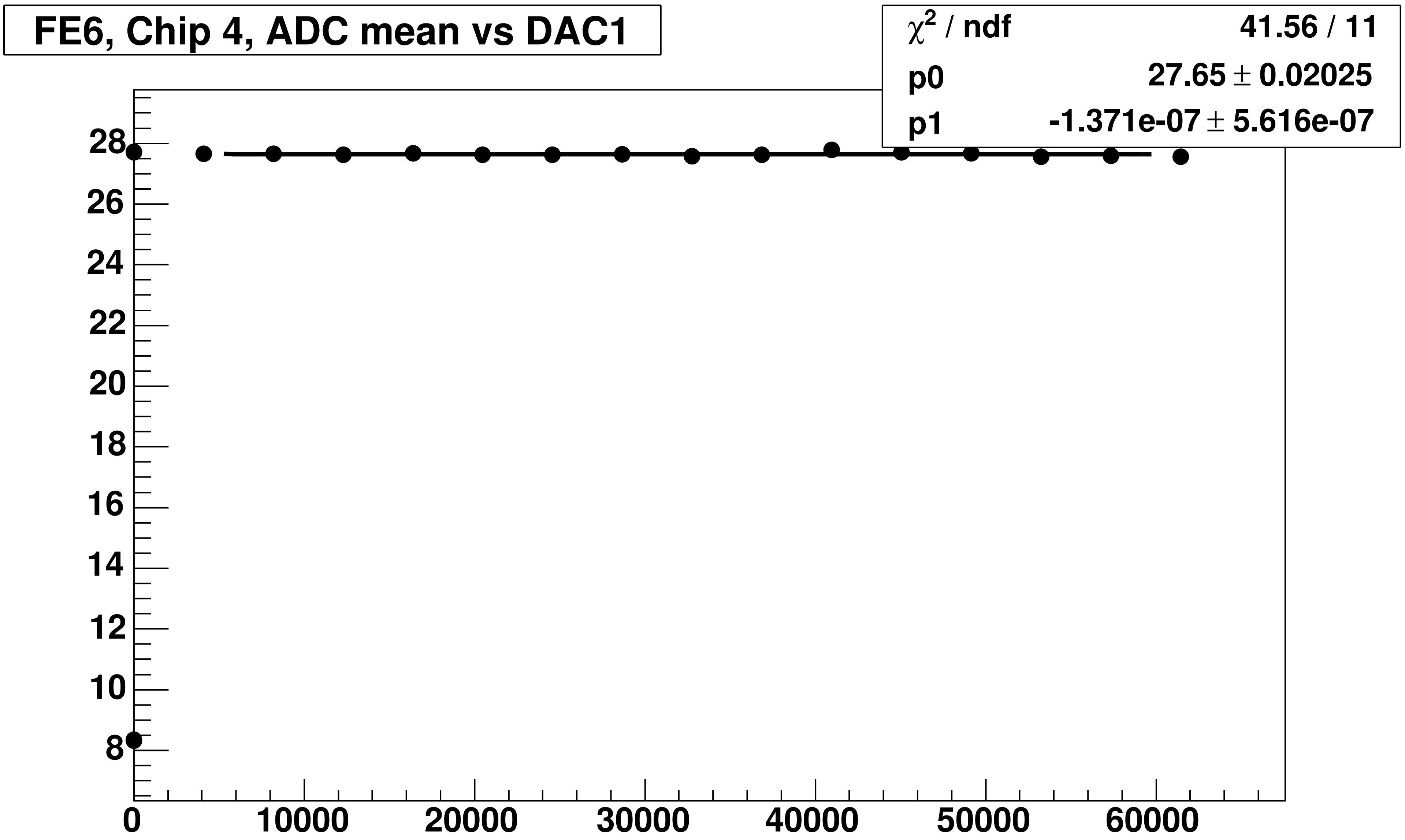

FE6, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000


FE6, 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

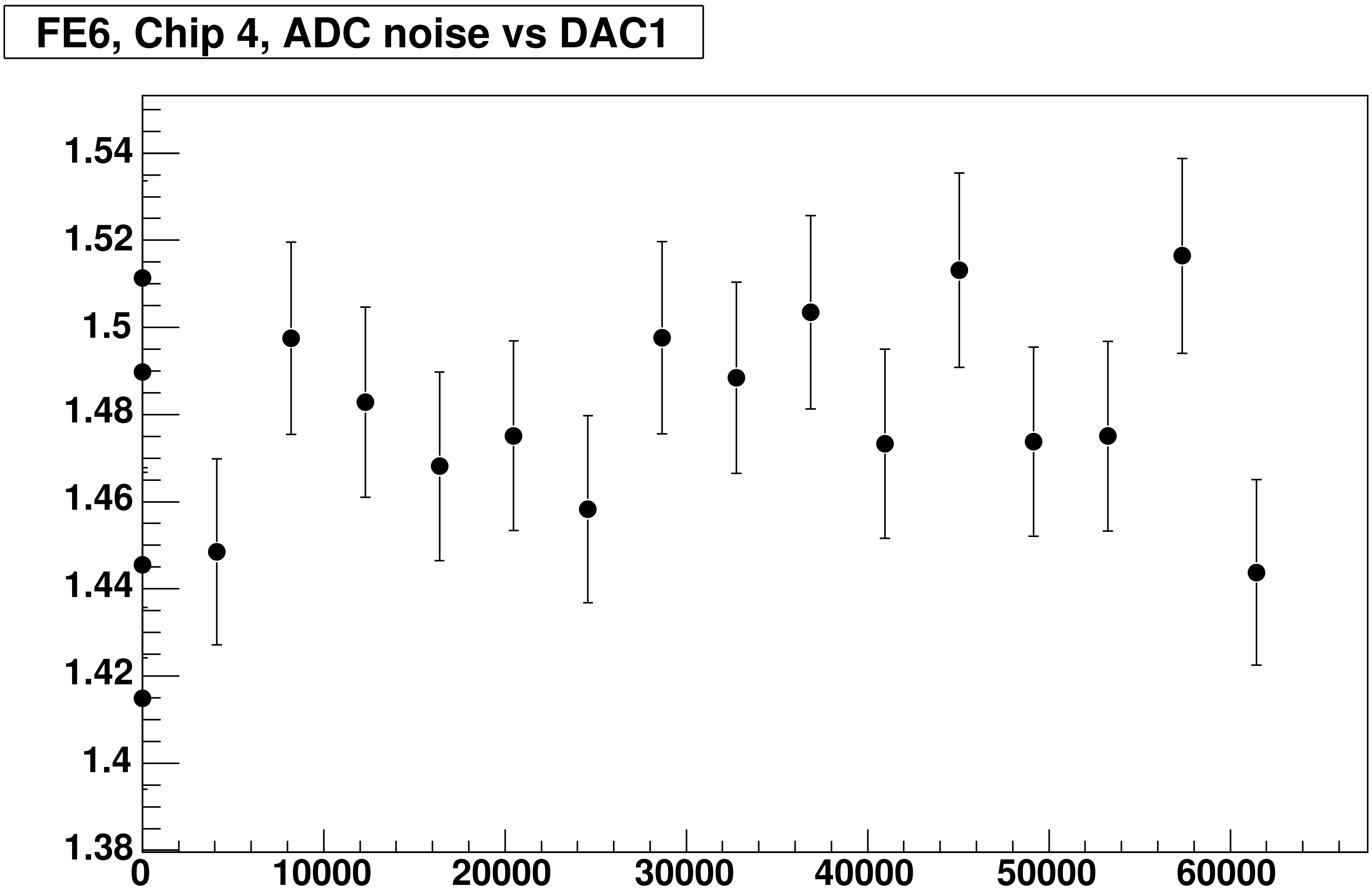

FE6, Chip 4, ADC mean vs DAC0
χ^2 / ndf 7445 / 11
p0 27.23 ± 0.02108
p1 0.4505 ± 6.801e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE6, Chip 4, ADC noise vs DAC0
0
100
200
300
400
500
600
0
10000
20000
30000
40000
50000
60000

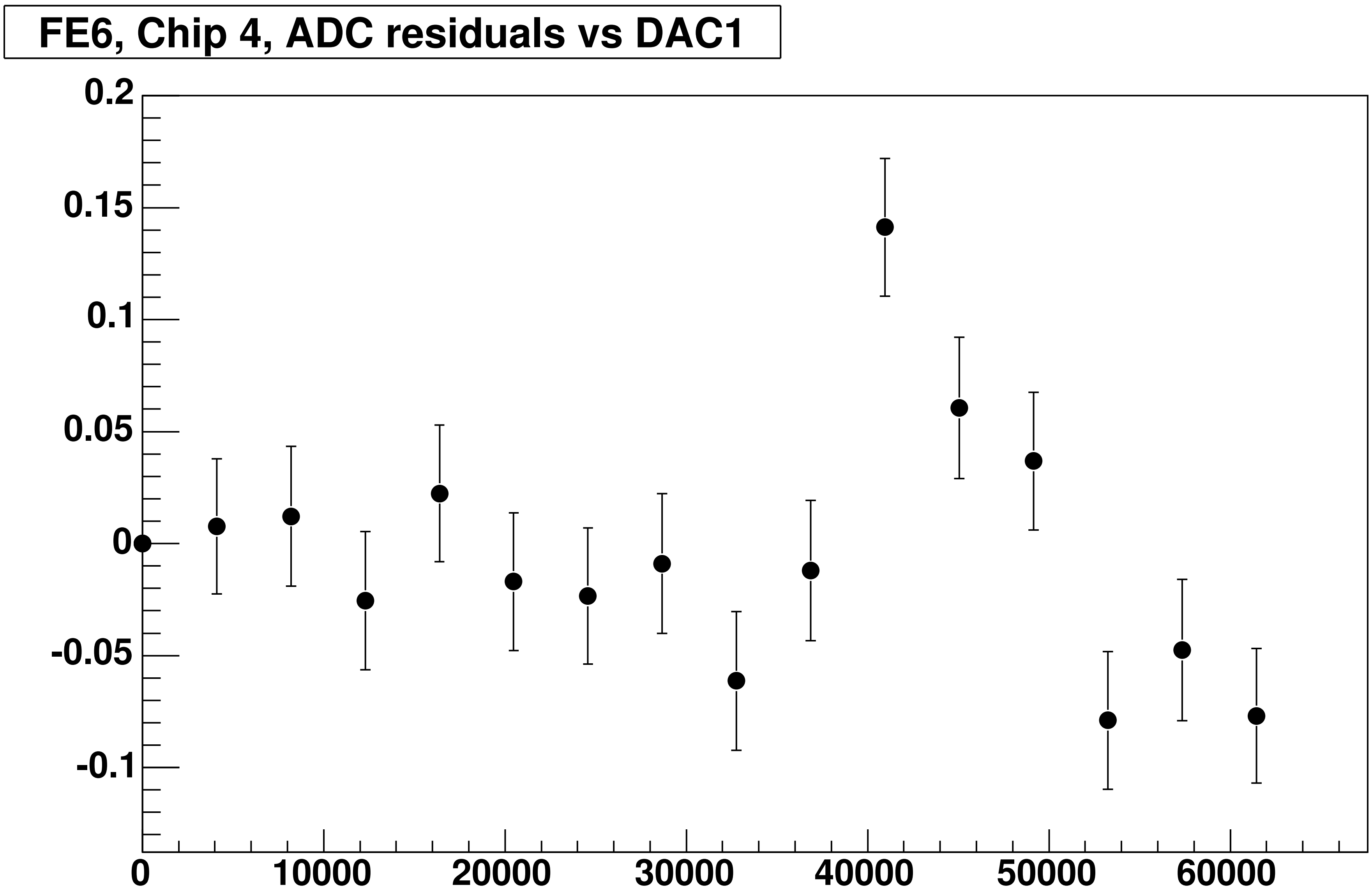

FE6, Chip 4, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

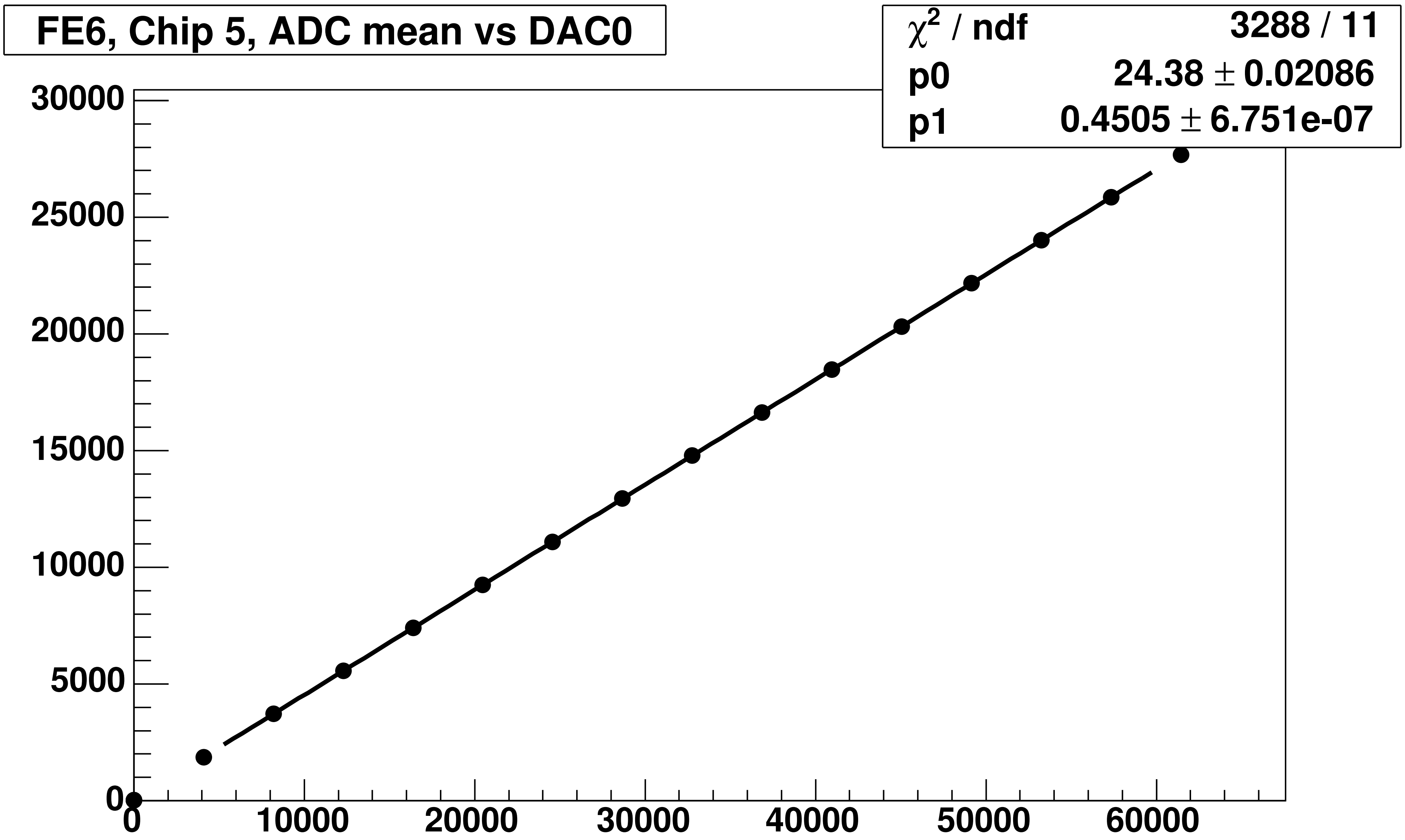


FE6, Chip 4, ADC mean vs DAC1
χ^2 / ndf 41.56 / 11
p0 27.65 ± 0.02025
p1 -1.371e-07 ± 5.616e-07
28
26
24
22
20
18
16
14
12
10
8
0
10000
20000
30000
40000
50000
60000

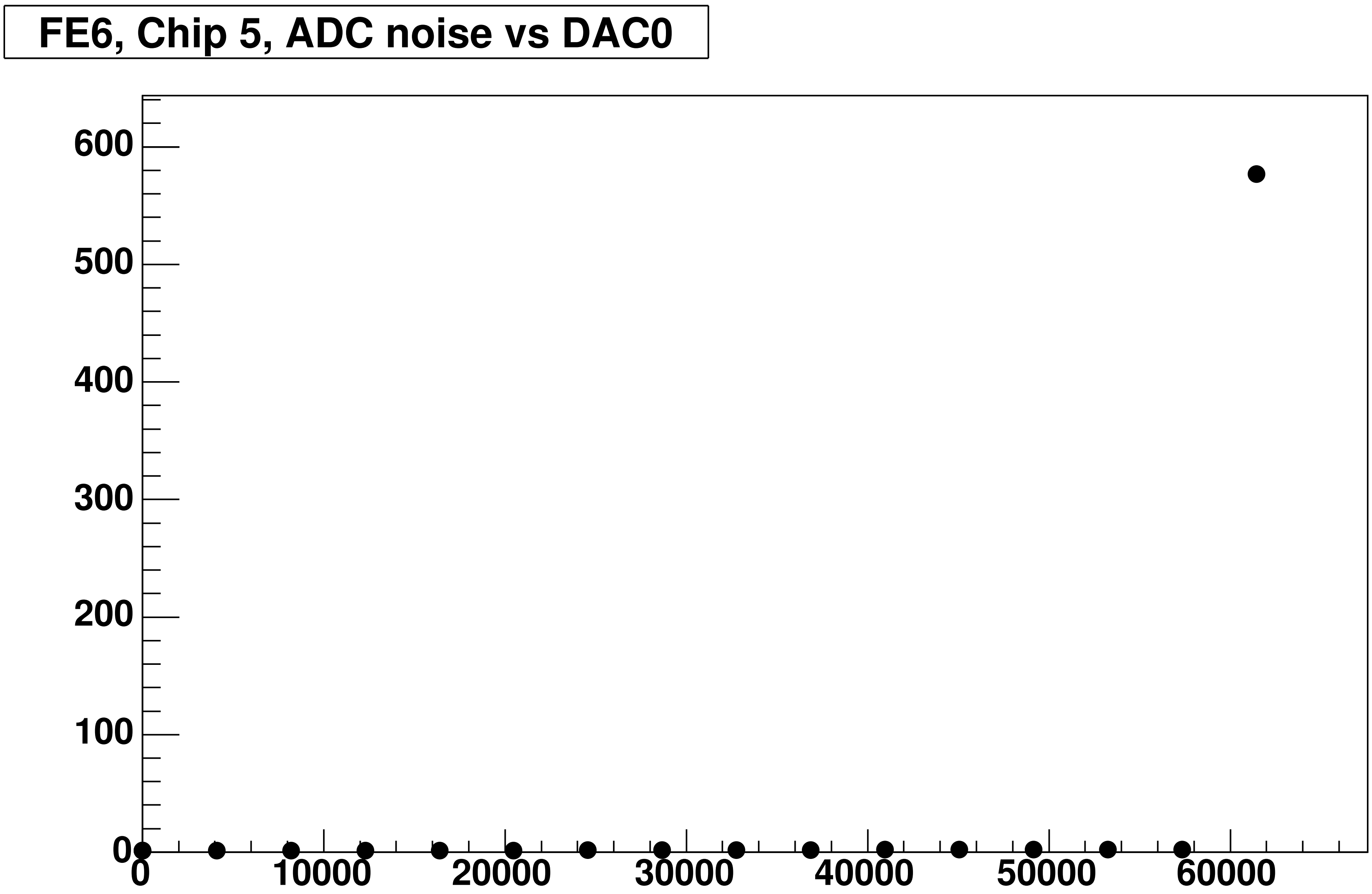


FE6, Chip 4, ADC noise vs DAC1
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
0
10000
20000
30000
40000
50000
60000

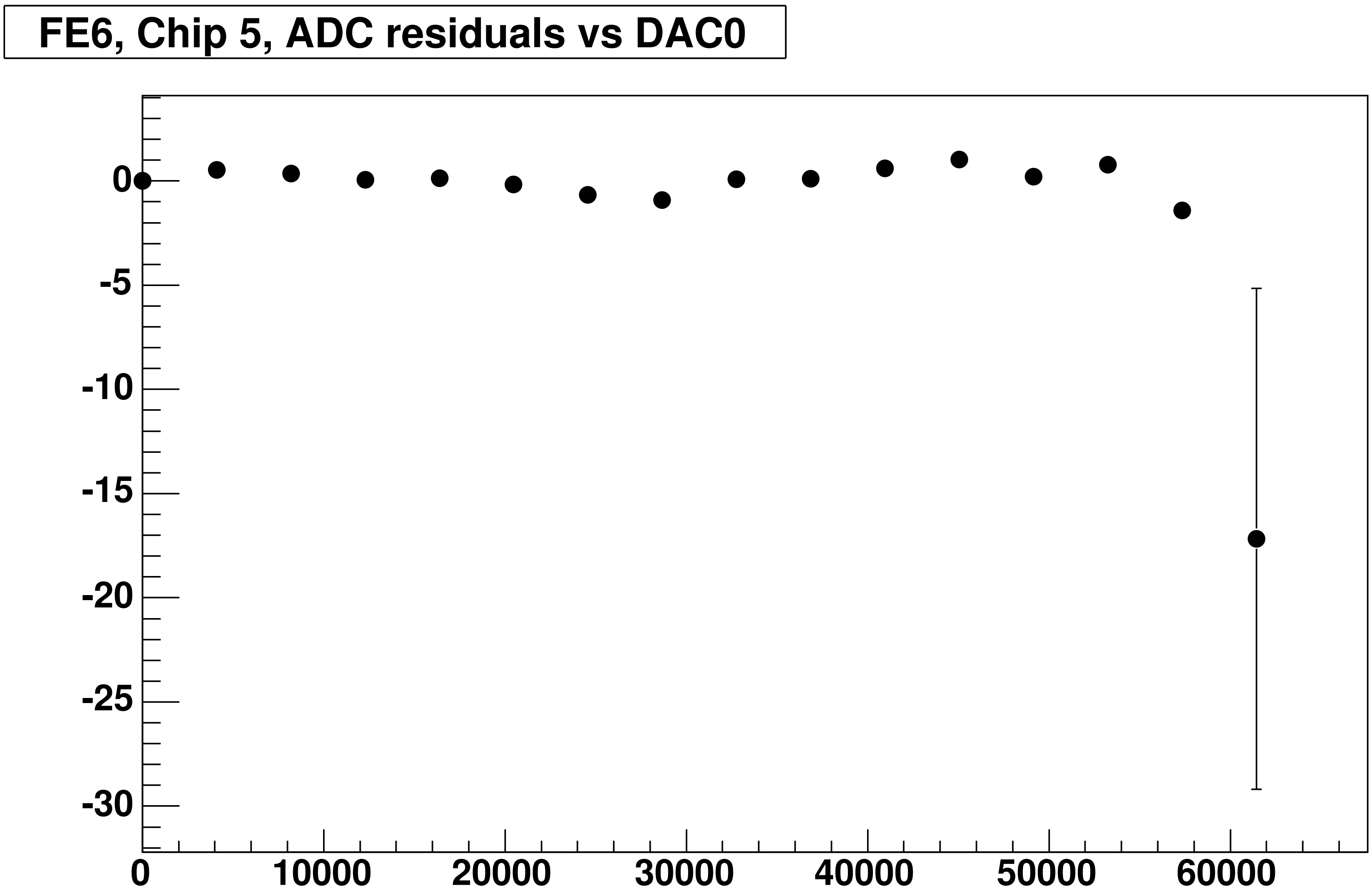

FE6, Chip 4, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000

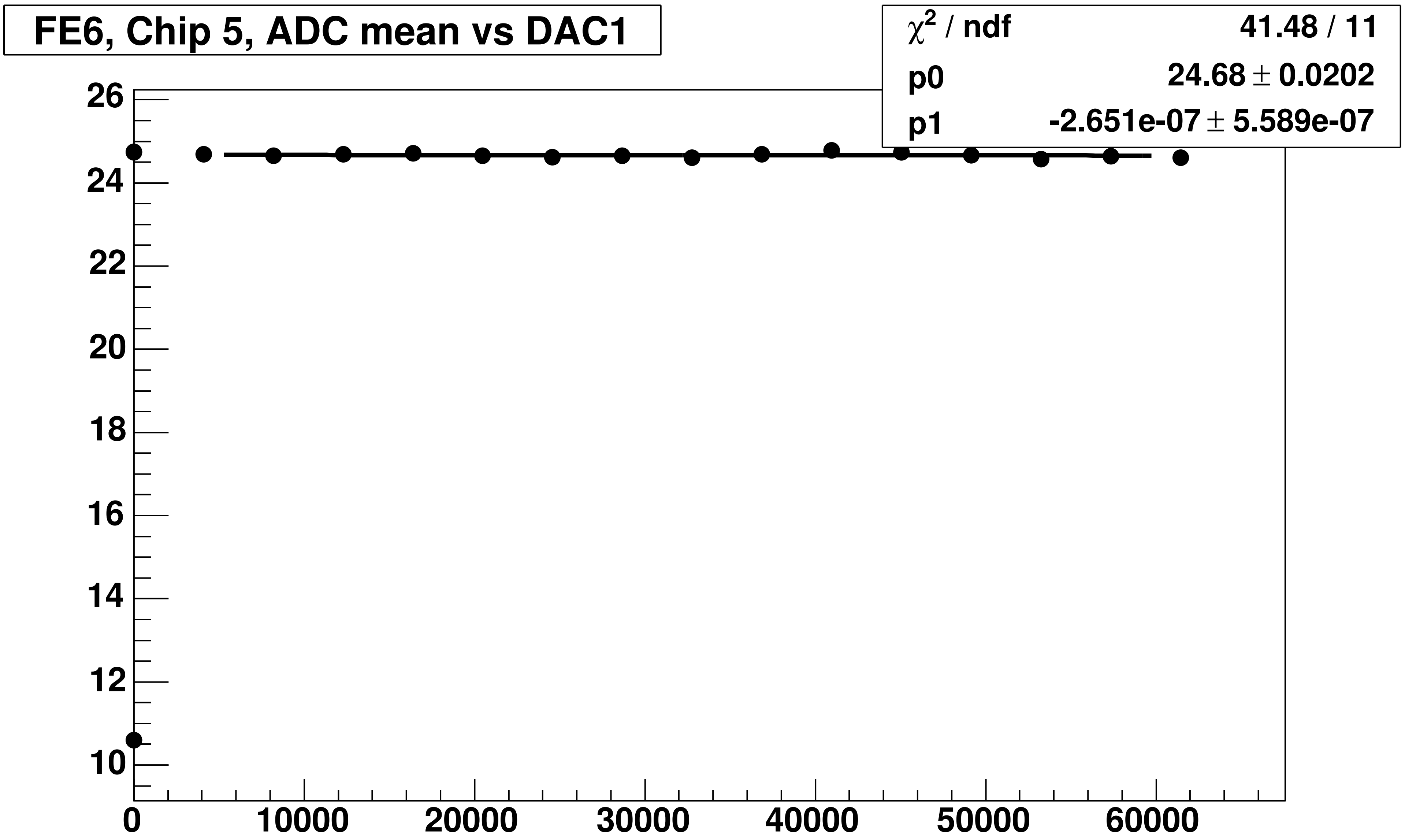


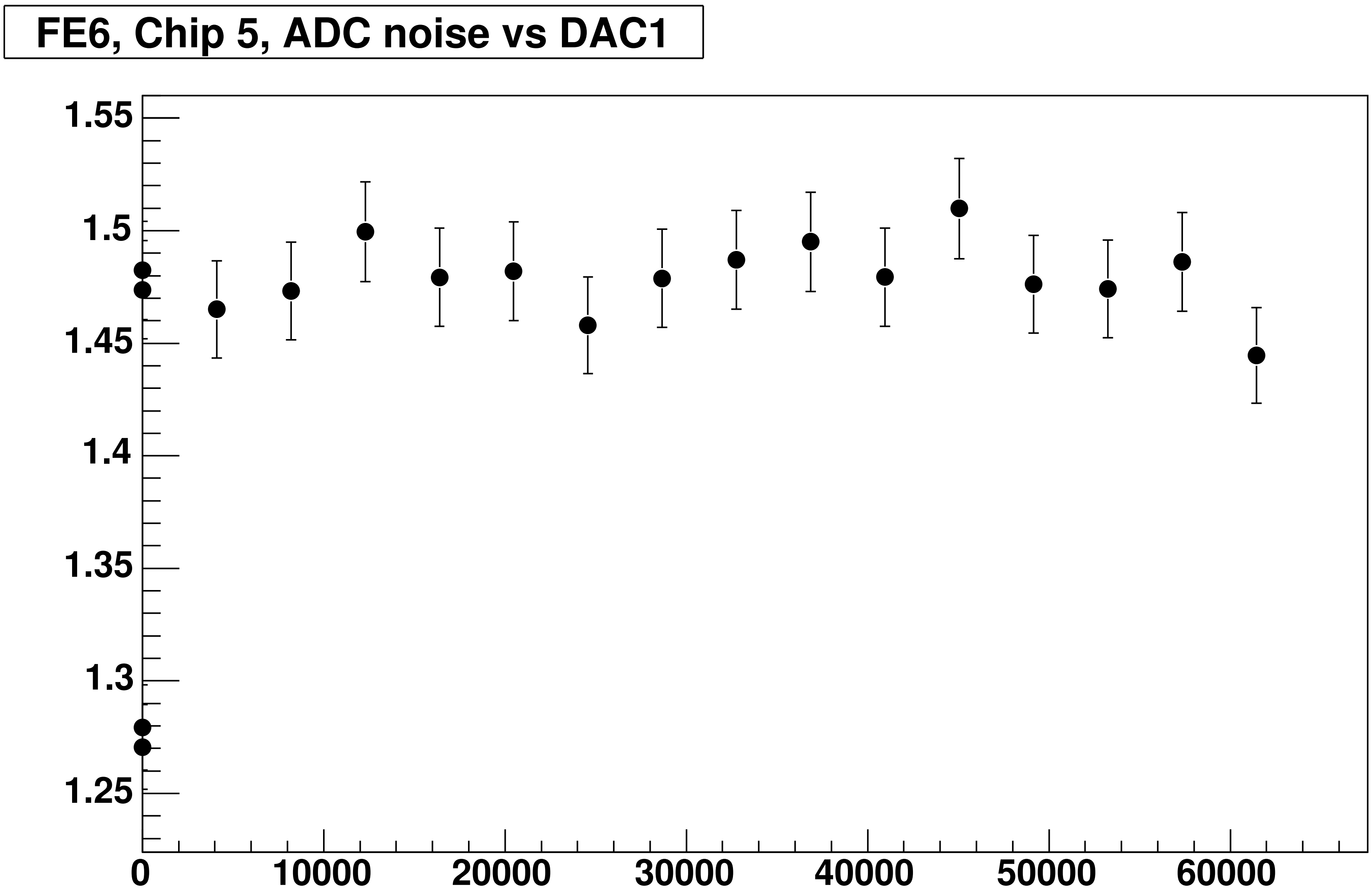
FE6, Chip 5, ADC mean vs DAC0
χ^2 / ndf 3288 / 11
p0 24.38 ± 0.02086
p1 0.4505 ± 6.751e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

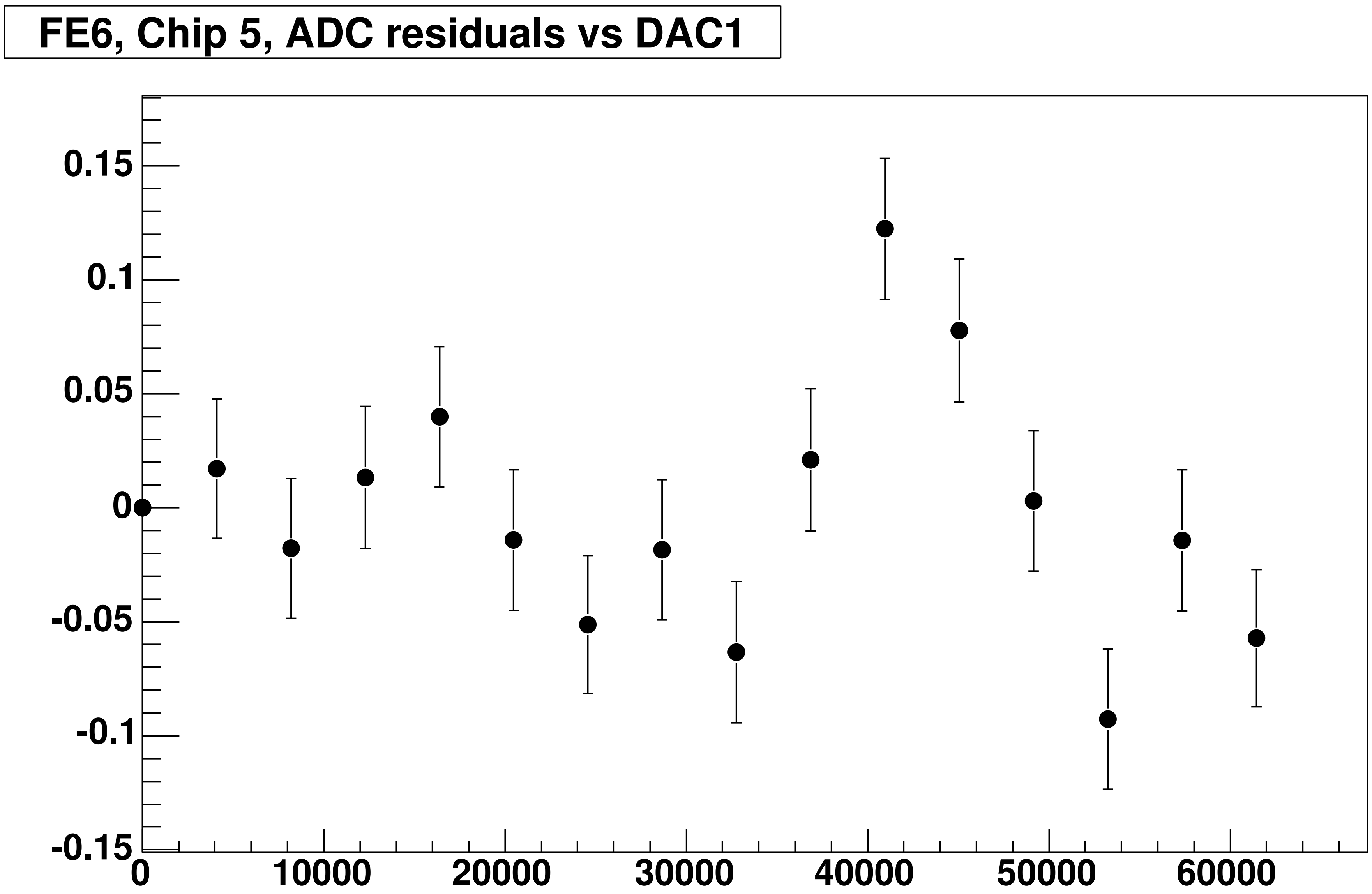


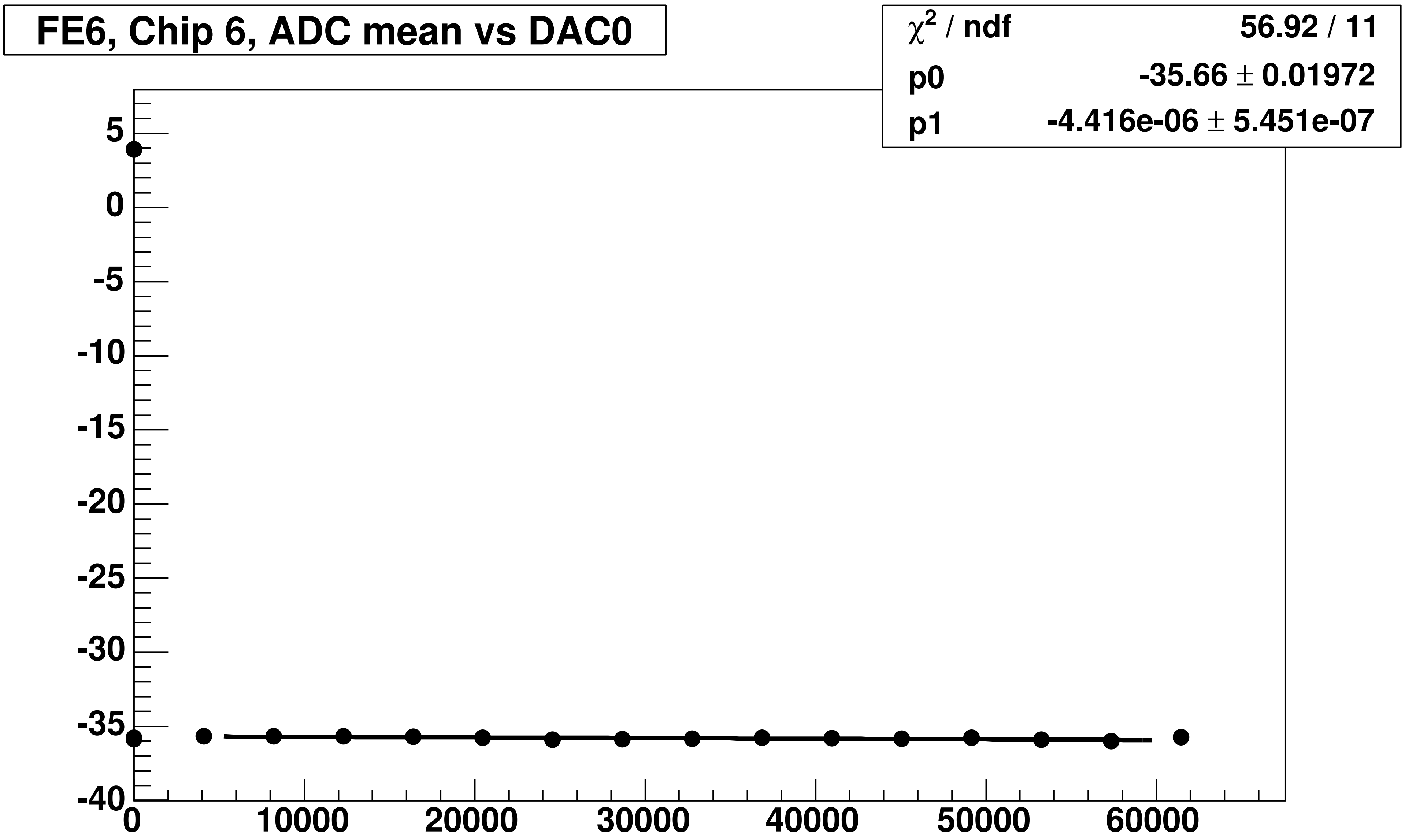
FE6, Chip 5, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

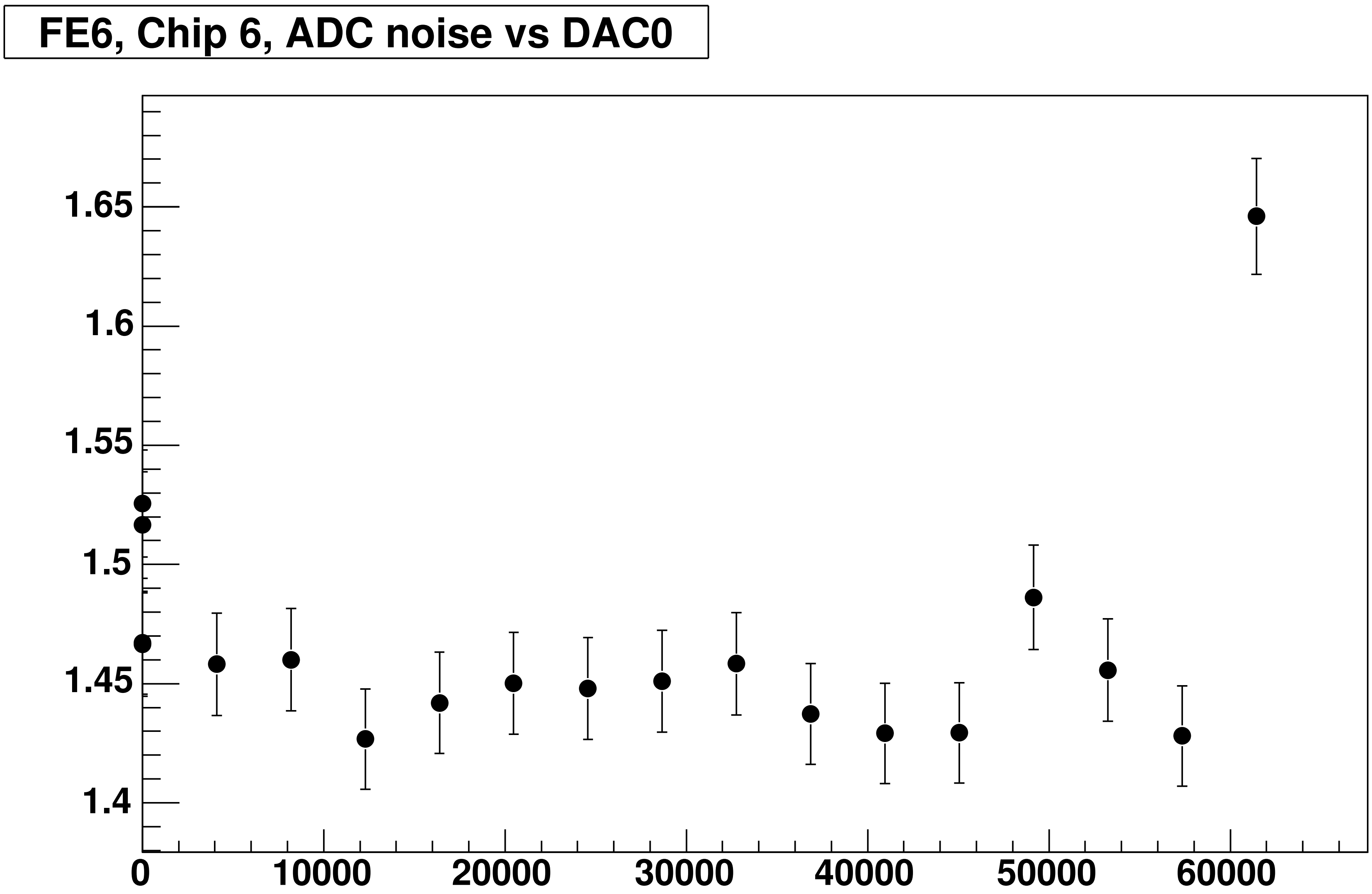

FE6, Chip 5, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000


FE6, Chip 5, ADC mean vs DAC1
χ² / ndf 41.48 / 11
p0 24.68 ± 0.0202
p1 -2.651e-07 ± 5.589e-07
26
24
22
20
18
16
14
12
10
0
10000
20000
30000
40000
50000
60000

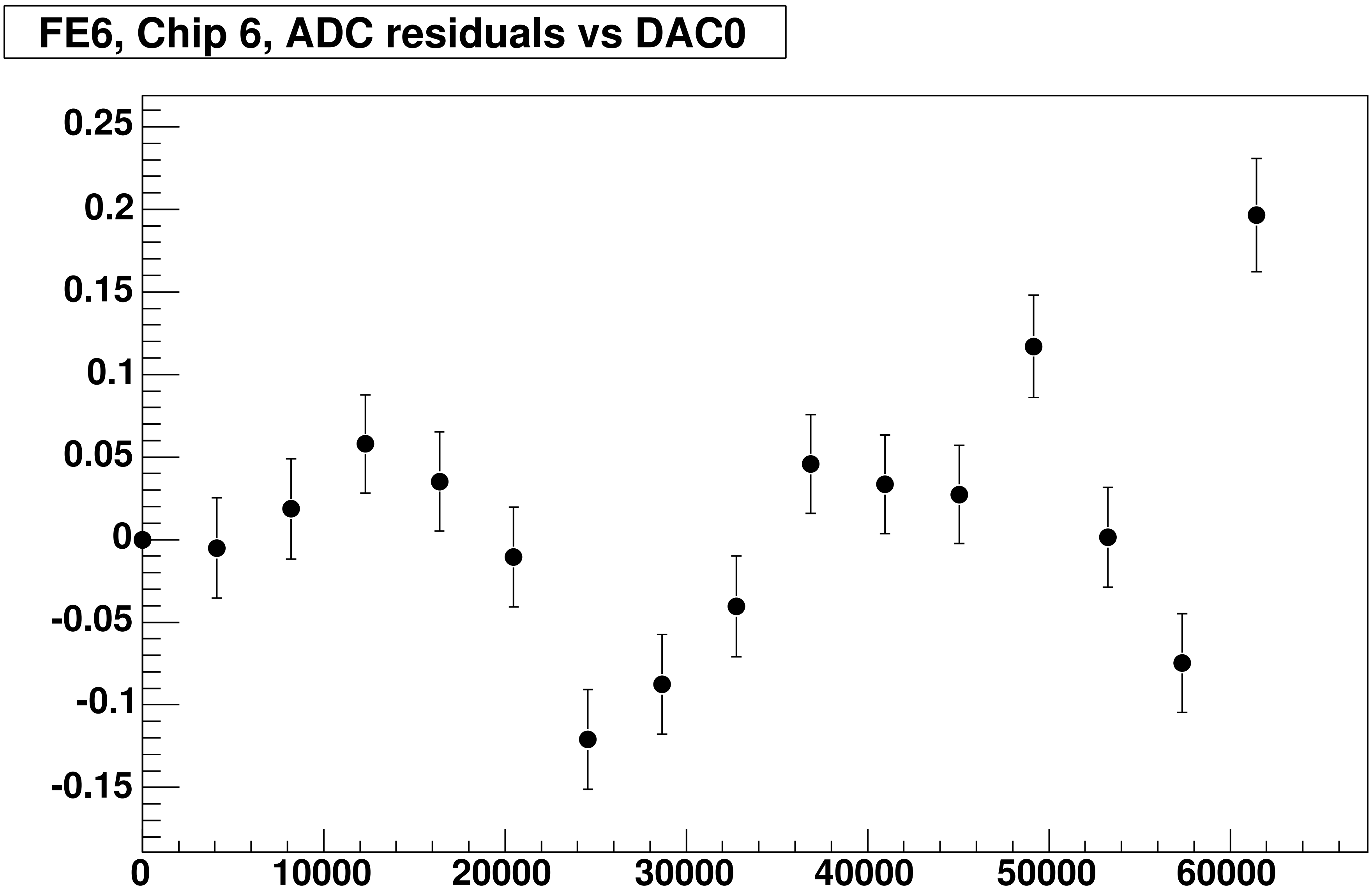

FE6, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000

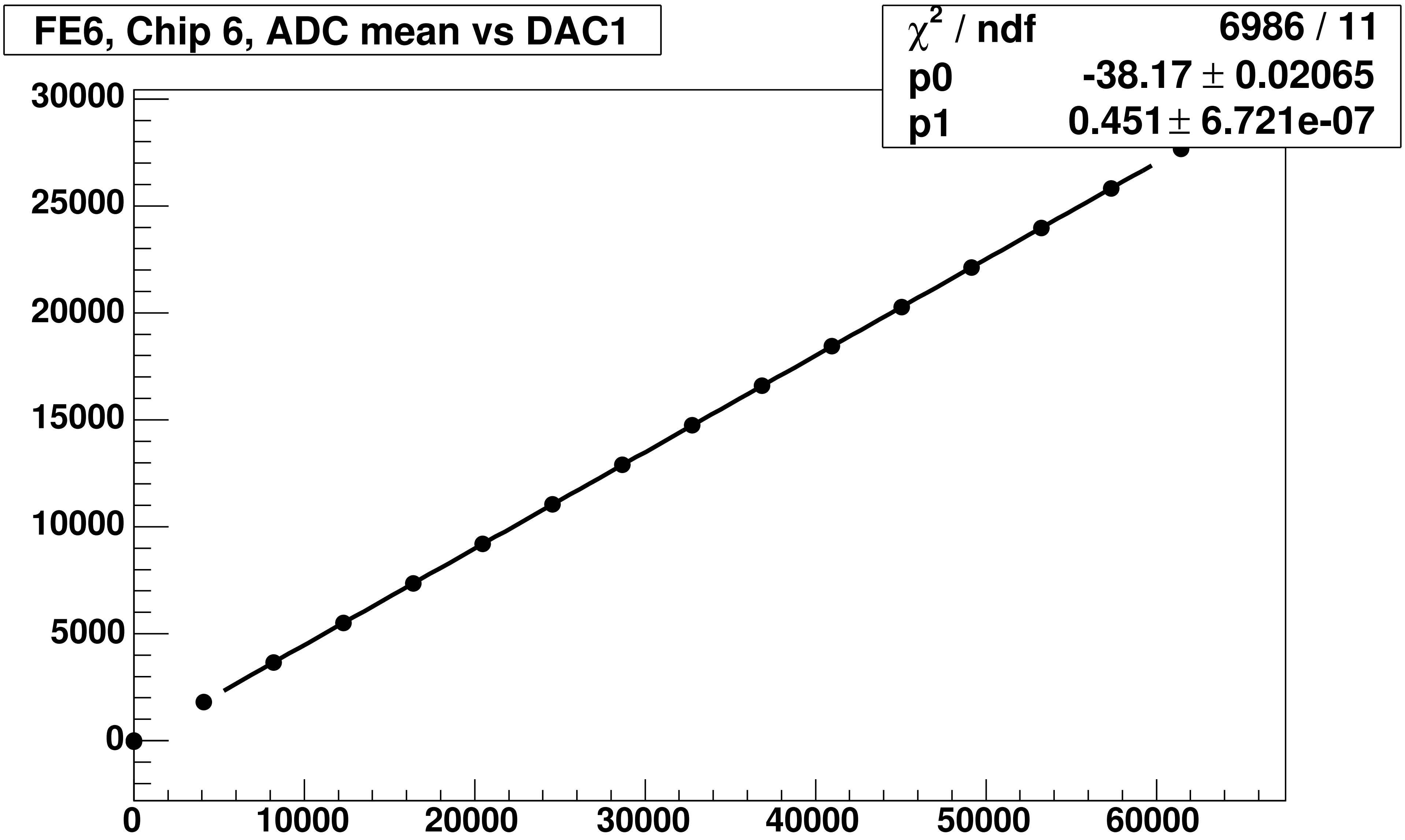

FE6, Chip 5, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

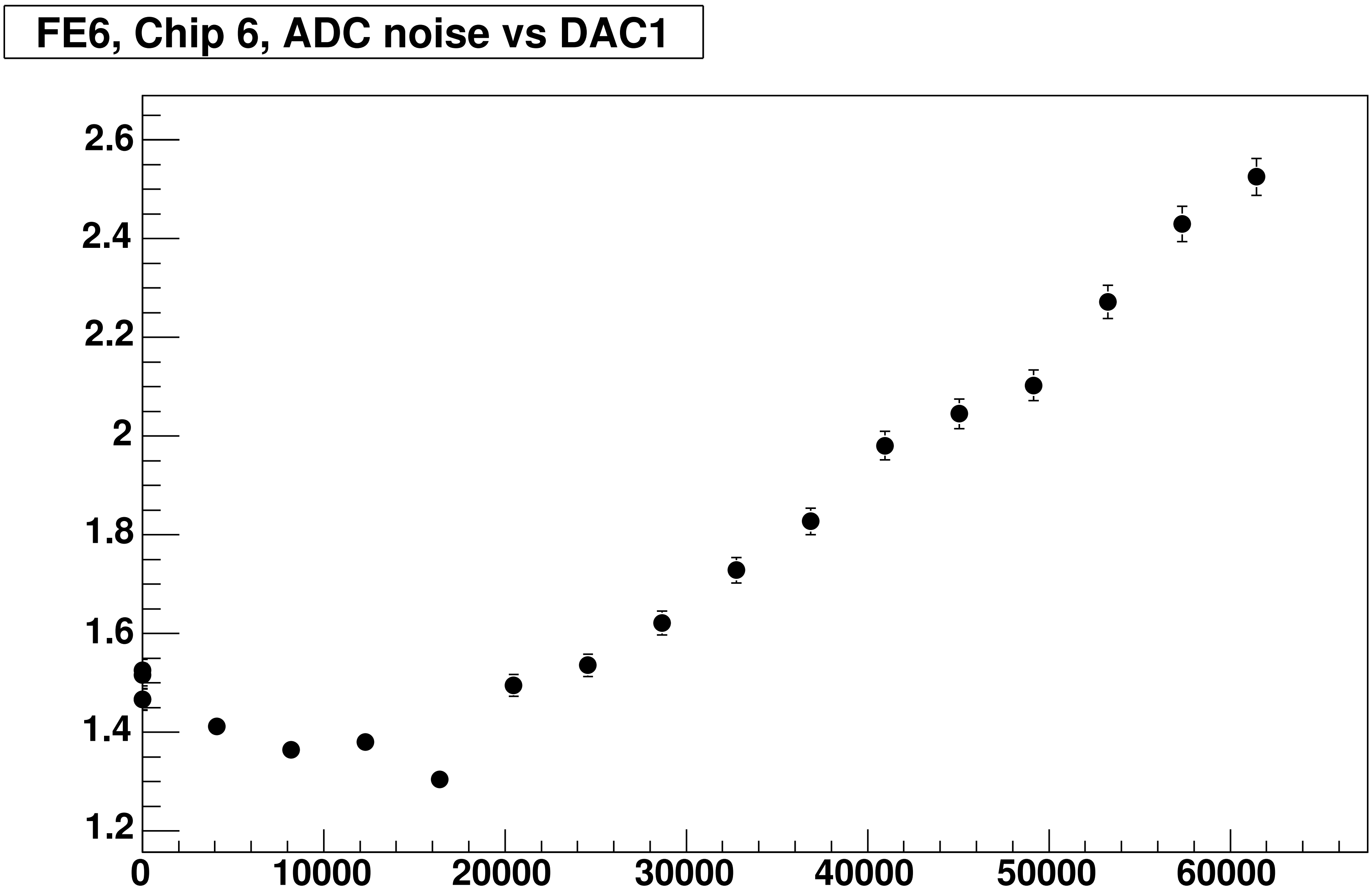

FE6, Chip 6, ADC mean vs DAC0
χ^2 / ndf 56.92 / 11
p0 -35.66 ± 0.01972
p1 -4.416e-06 ± 5.451e-07
5
0
-5
-10
-15
-20
-25
-30
-35
-40
0
10000
20000
30000
40000
50000
60000

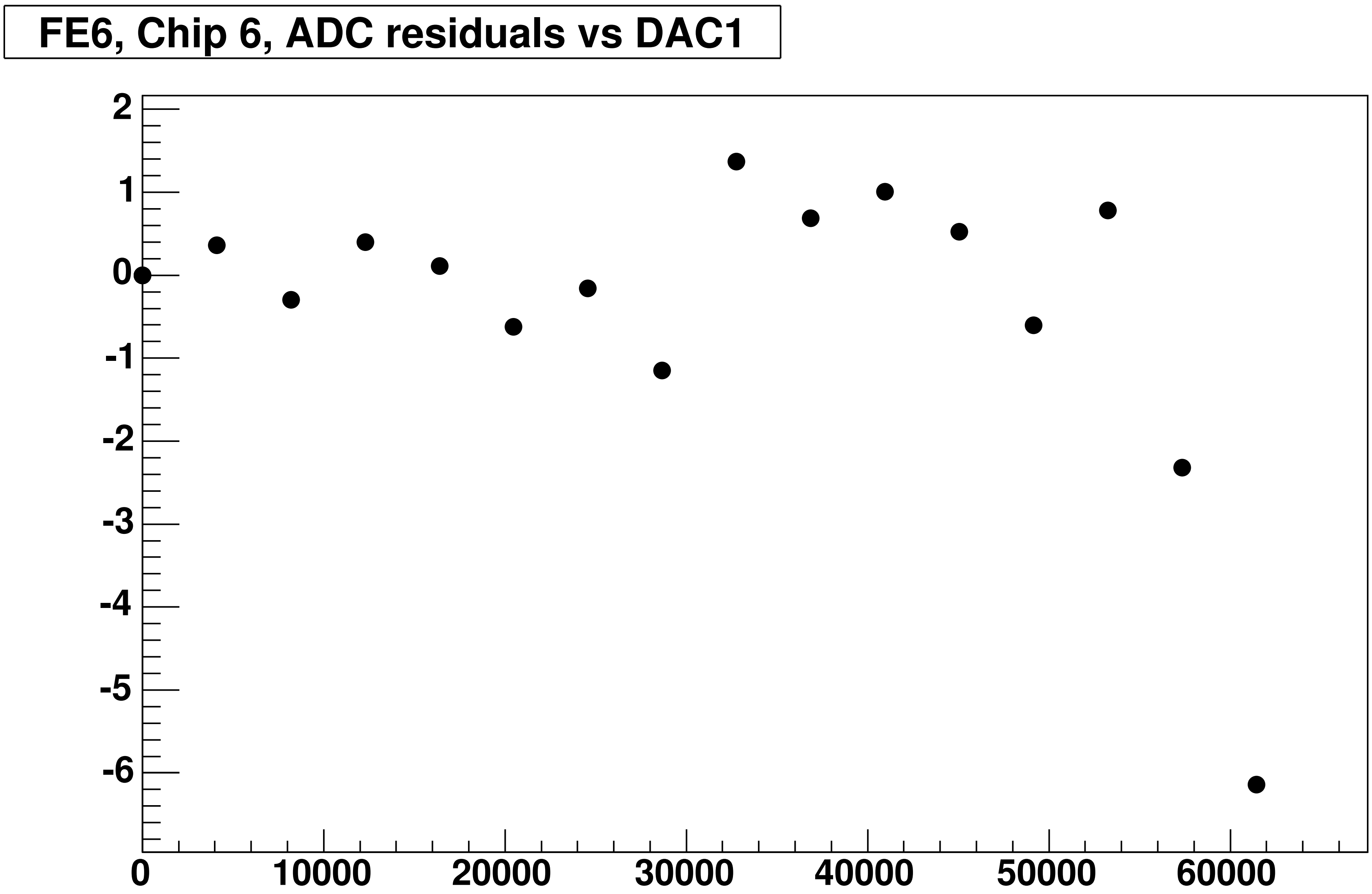


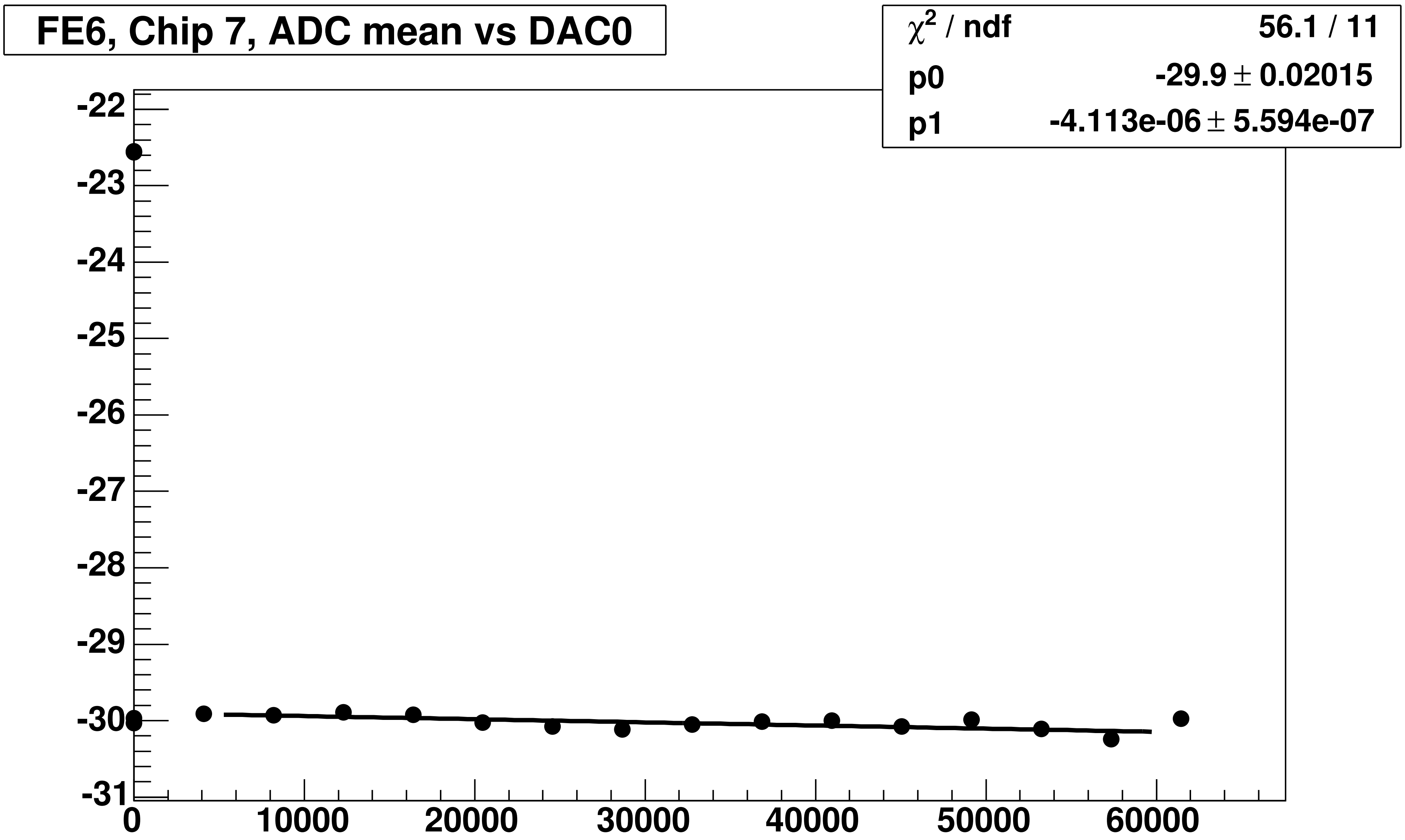
FE6, Chip 6, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

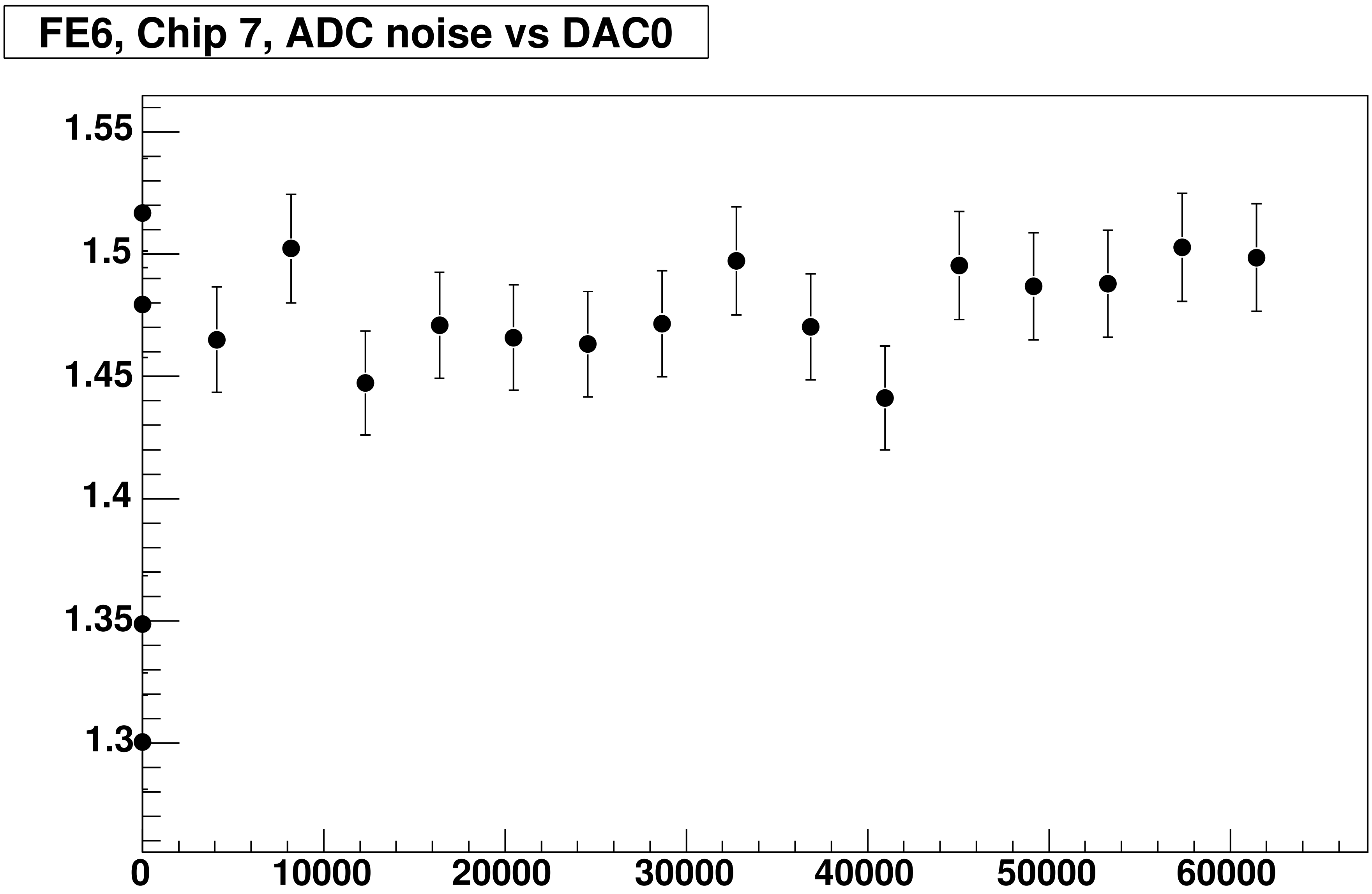

FE6, Chip 6, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000


FE6, Chip 6, ADC mean vs DAC1
χ^2 / ndf 6986 / 11
p0 -38.17 ± 0.02065
p1 0.451 ± 6.721e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

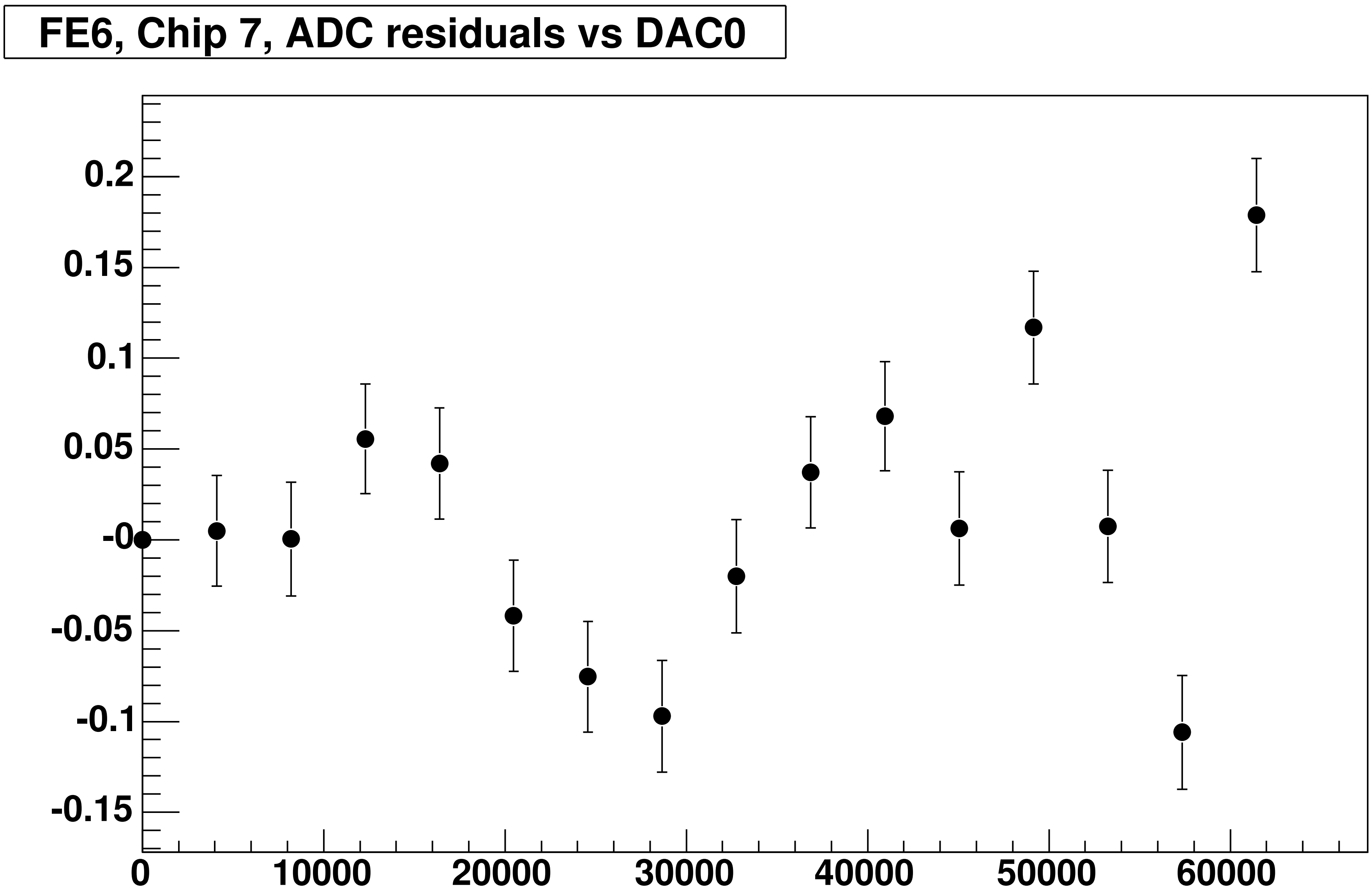

FE6, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

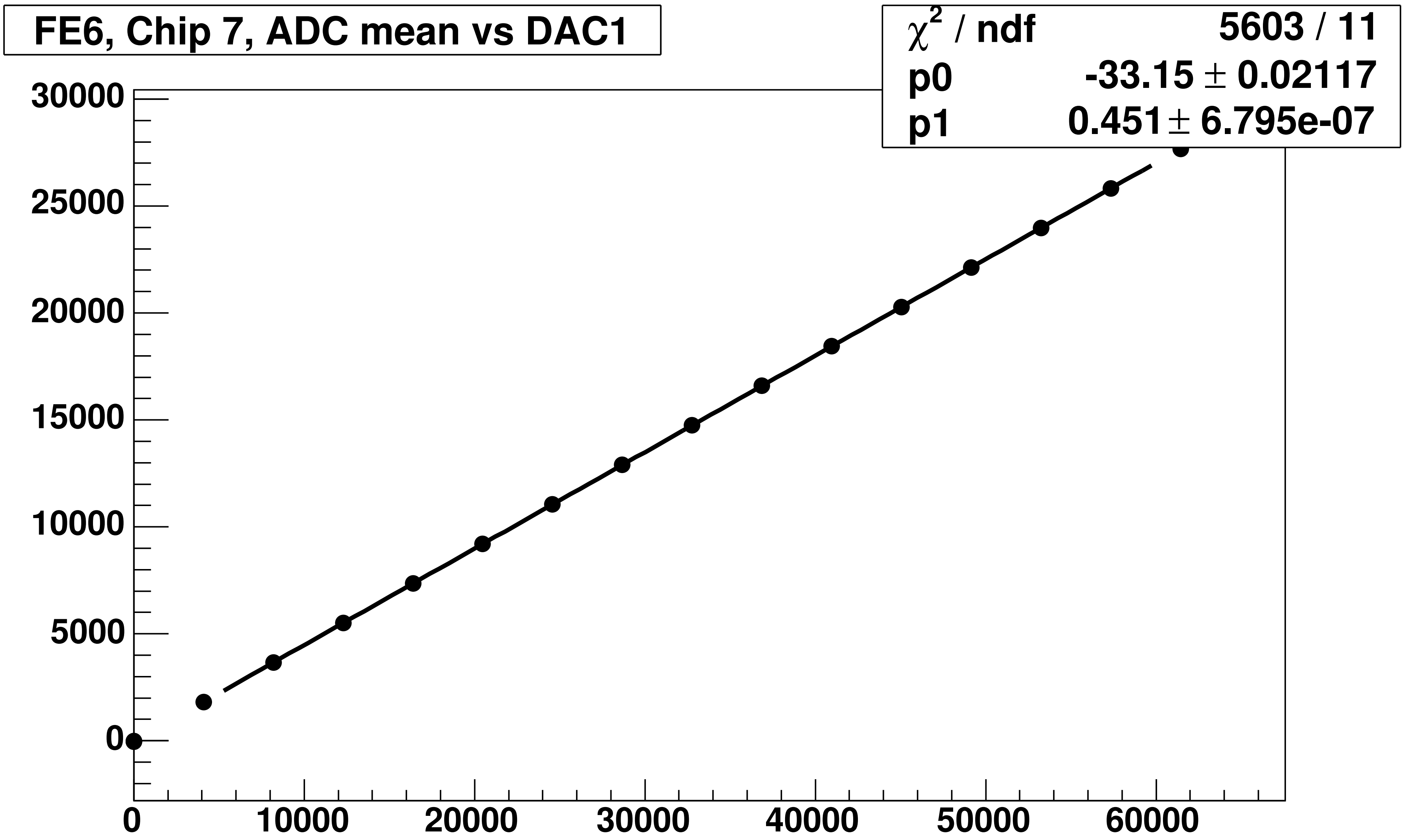

FE6, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE6, Chip 7, ADC mean vs DAC0
χ^2 / ndf 56.1 / 11
p0 -29.9 ± 0.02015
p1 -4.113e-06 ± 5.594e-07
-22
-23
-24
-25
-26
-27
-28
-29
-30
-31
0
10000
20000
30000
40000
50000
60000

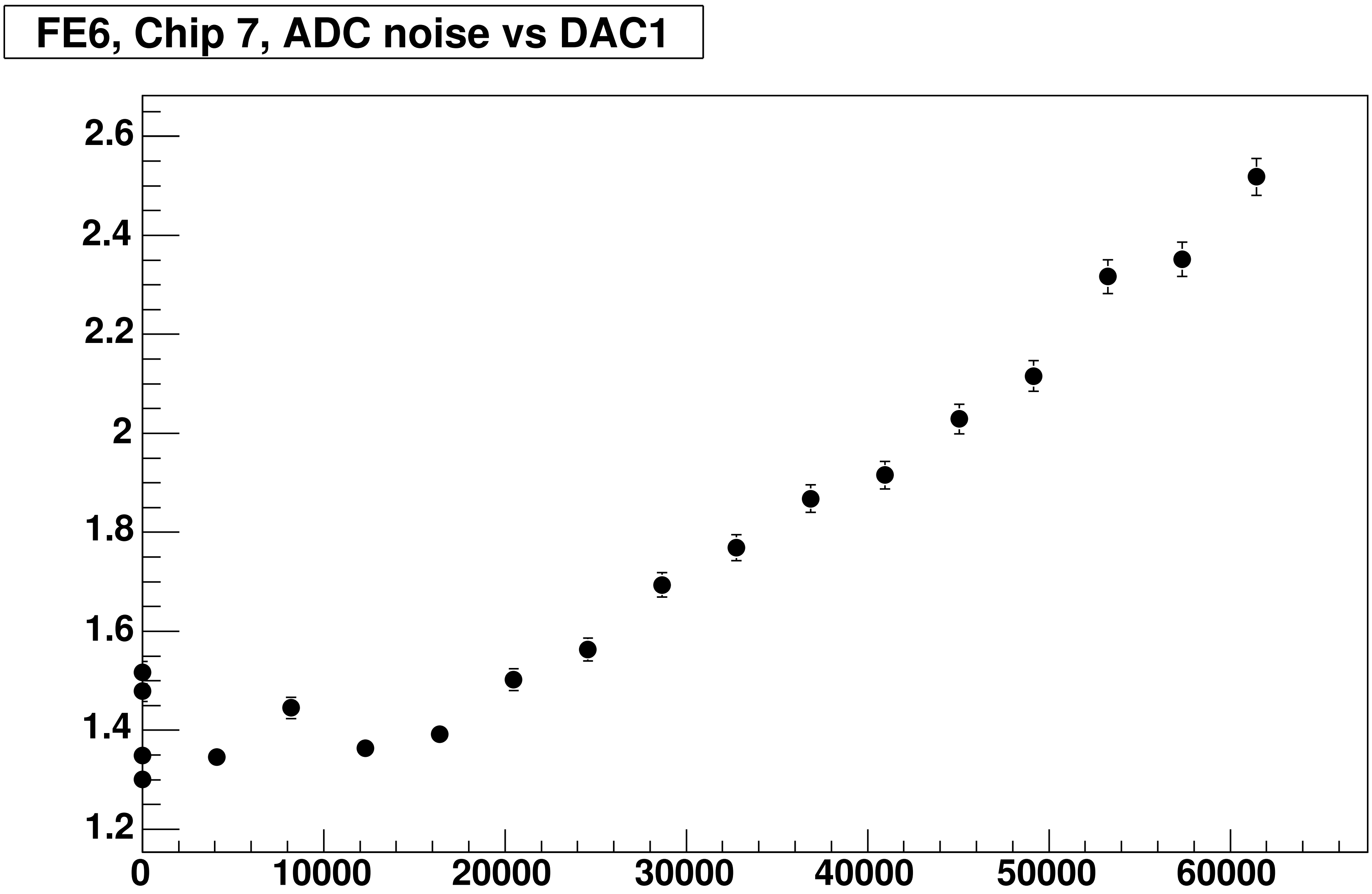


FE6, Chip 7, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

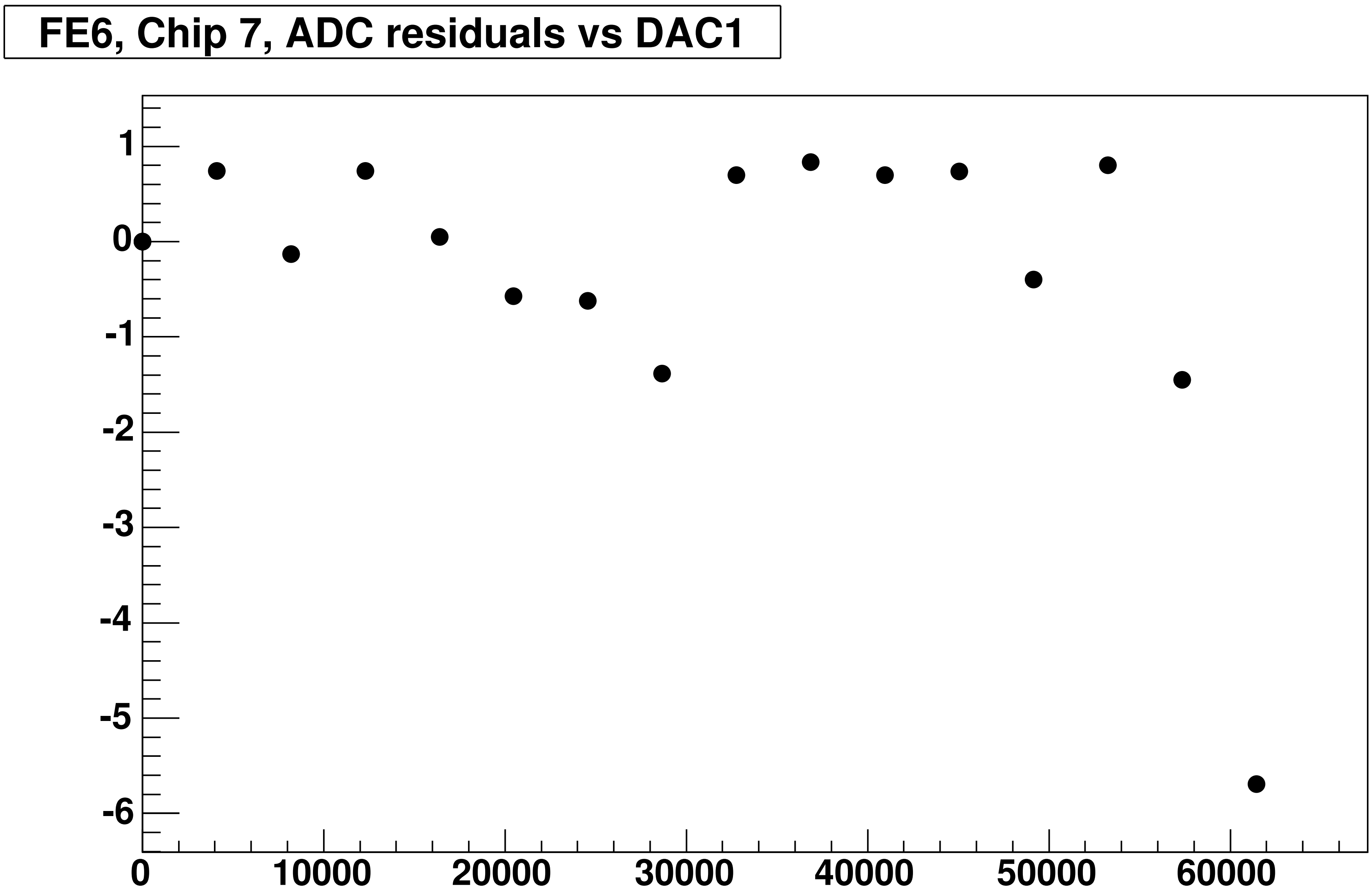

FE6, Chip 7, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



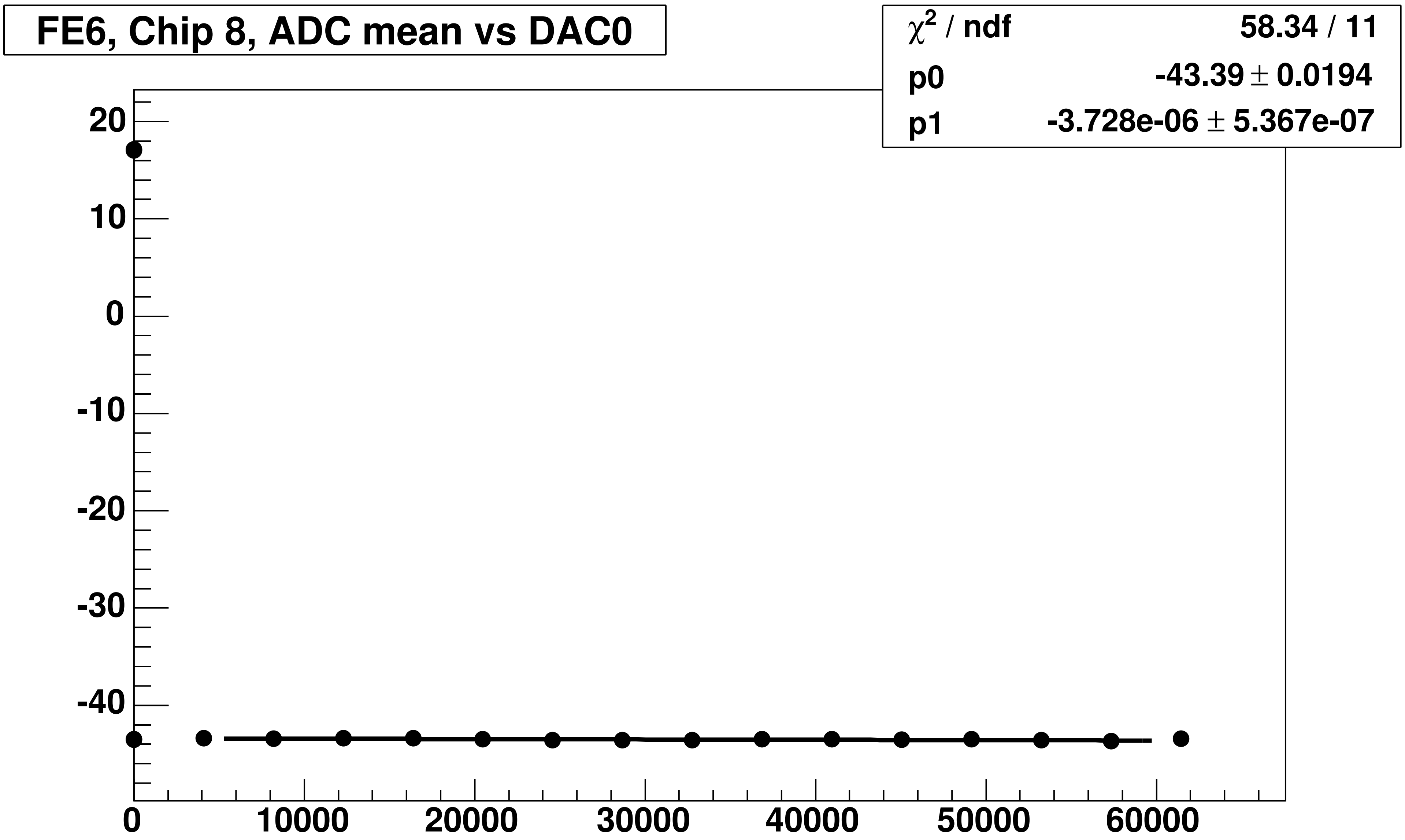
FE6, Chip 7, ADC mean vs DAC1
χ² / ndf 5603 / 11
p0 -33.15 ± 0.02117
p1 0.451 ± 6.795e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



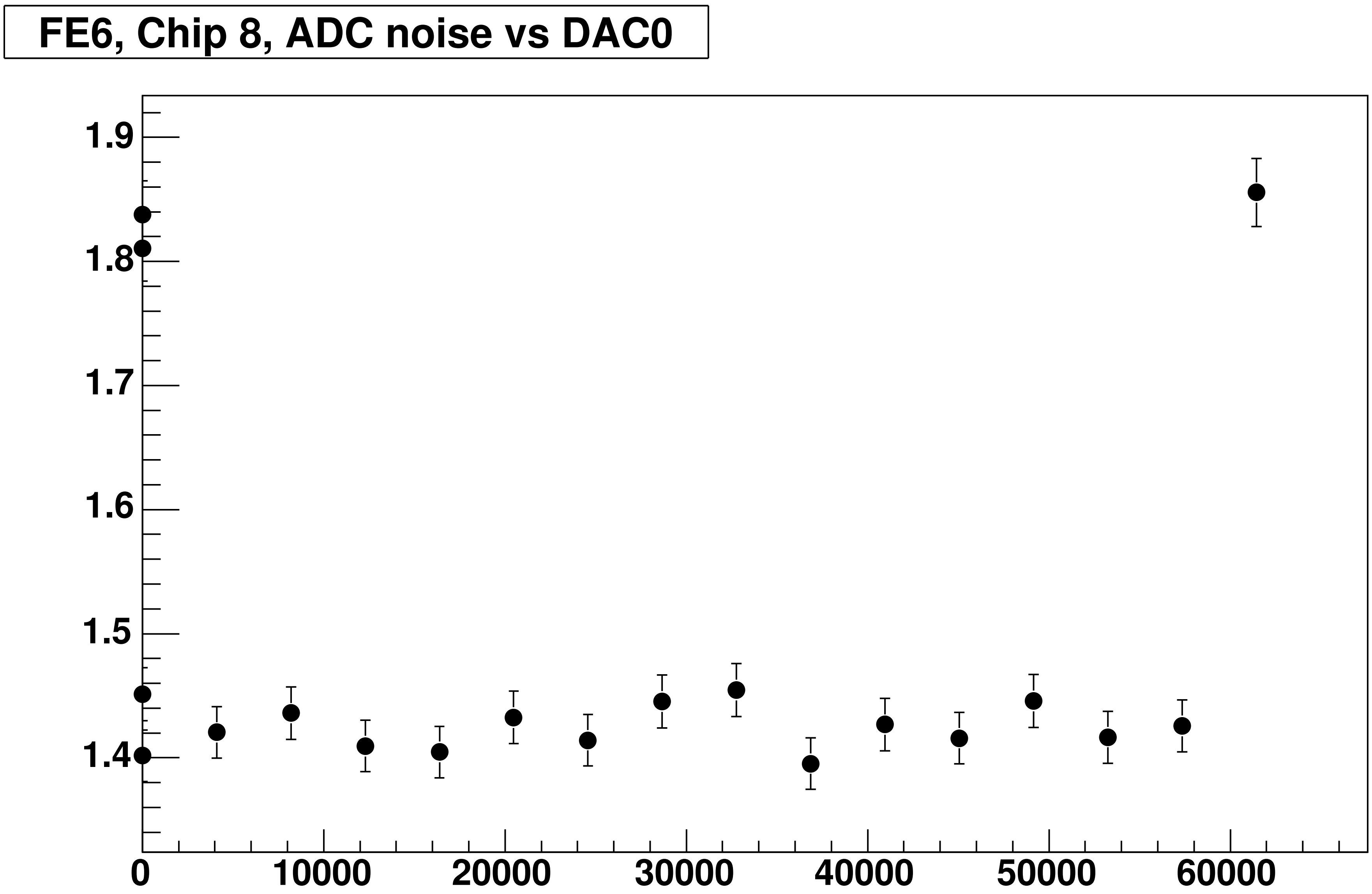
FE6, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

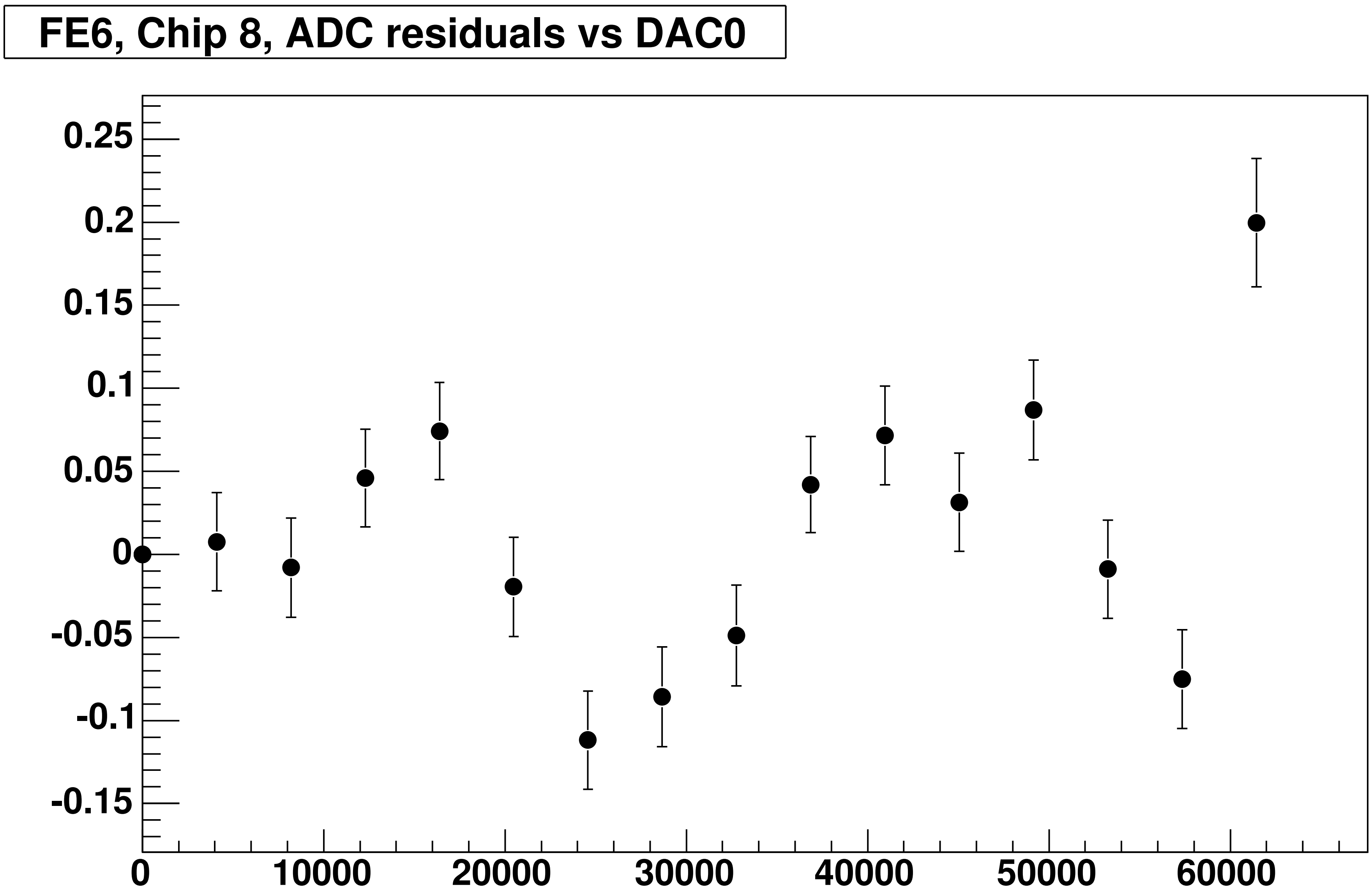


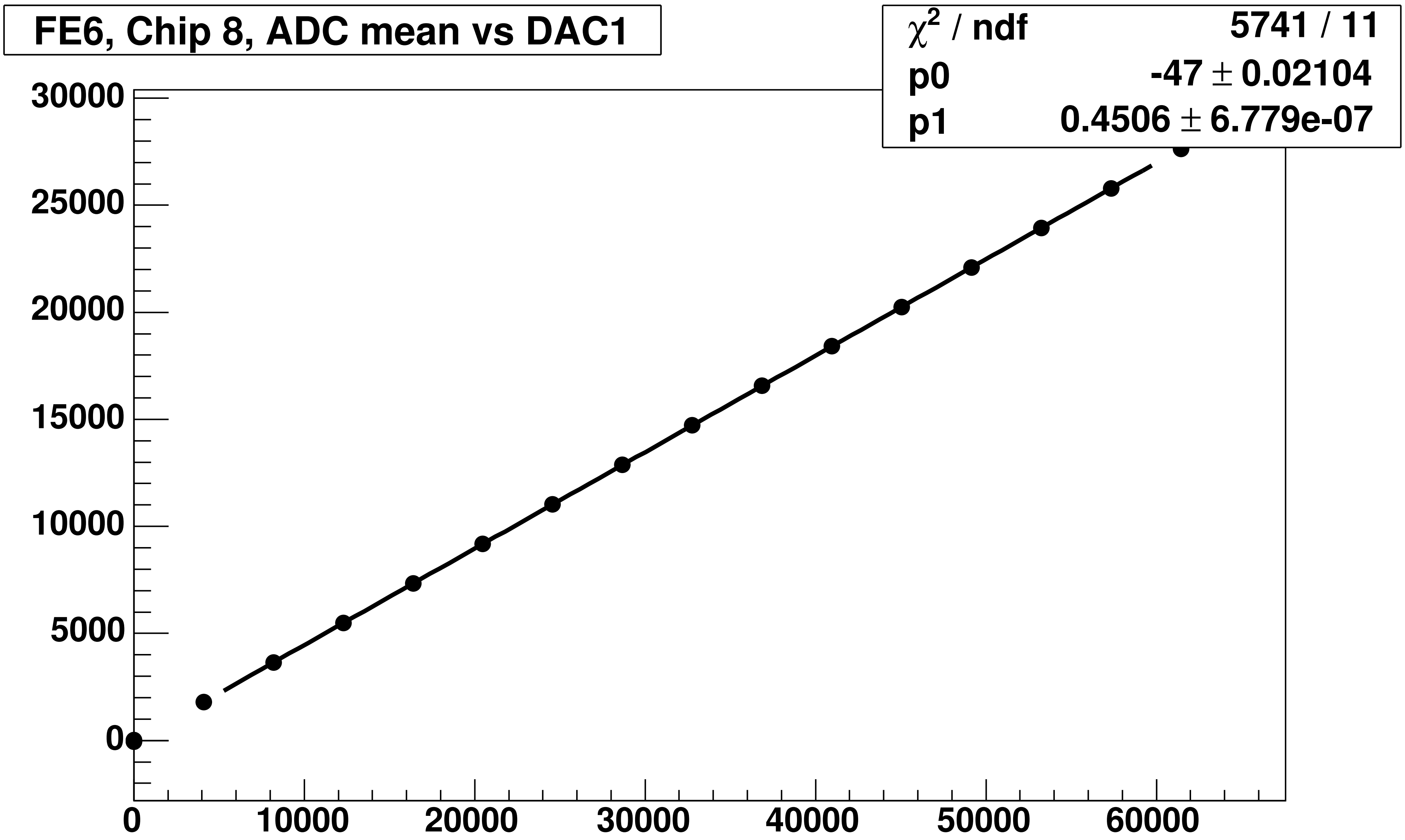
FE6, Chip 7, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



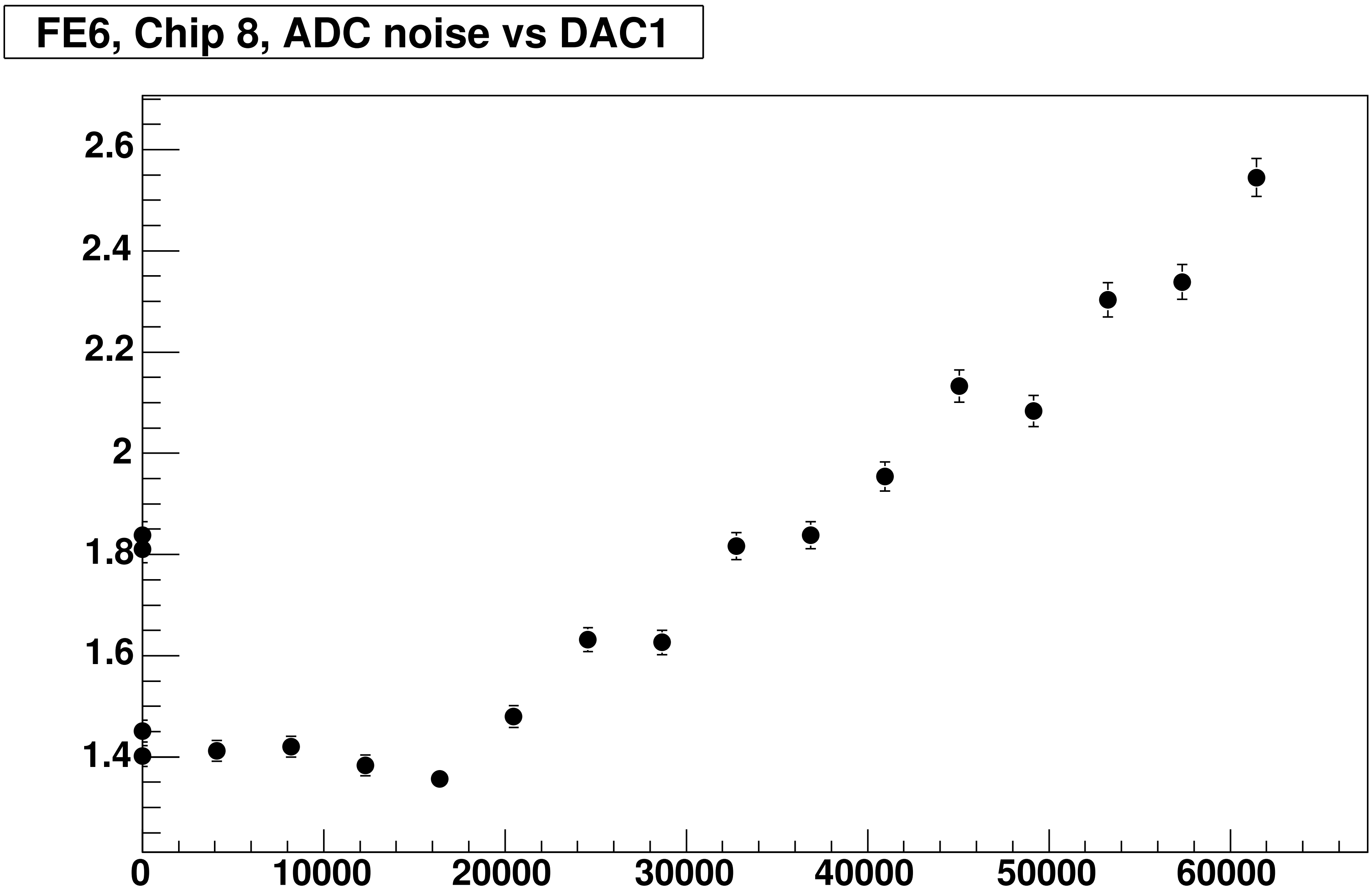
FE6, Chip 8, ADC mean vs DAC0
χ^2 / ndf 58.34 / 11
p0 -43.39 ± 0.0194
p1 -3.728e-06 ± 5.367e-07
20
10
0
-10
-20
-30
-40
0
10000
20000
30000
40000
50000
60000


FE6, Chip 8, ADC noise vs DAC0
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

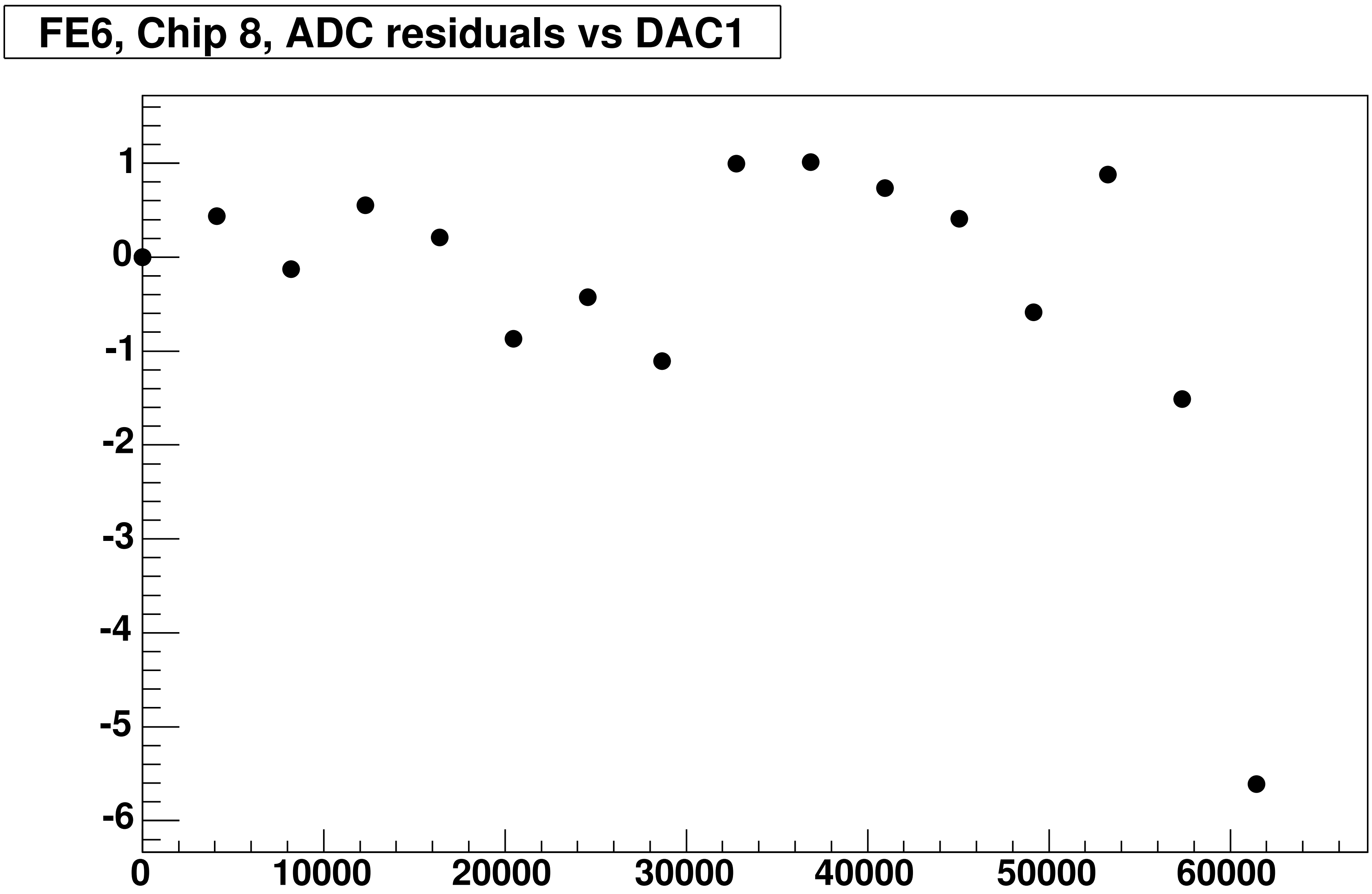

FE6, Chip 8, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

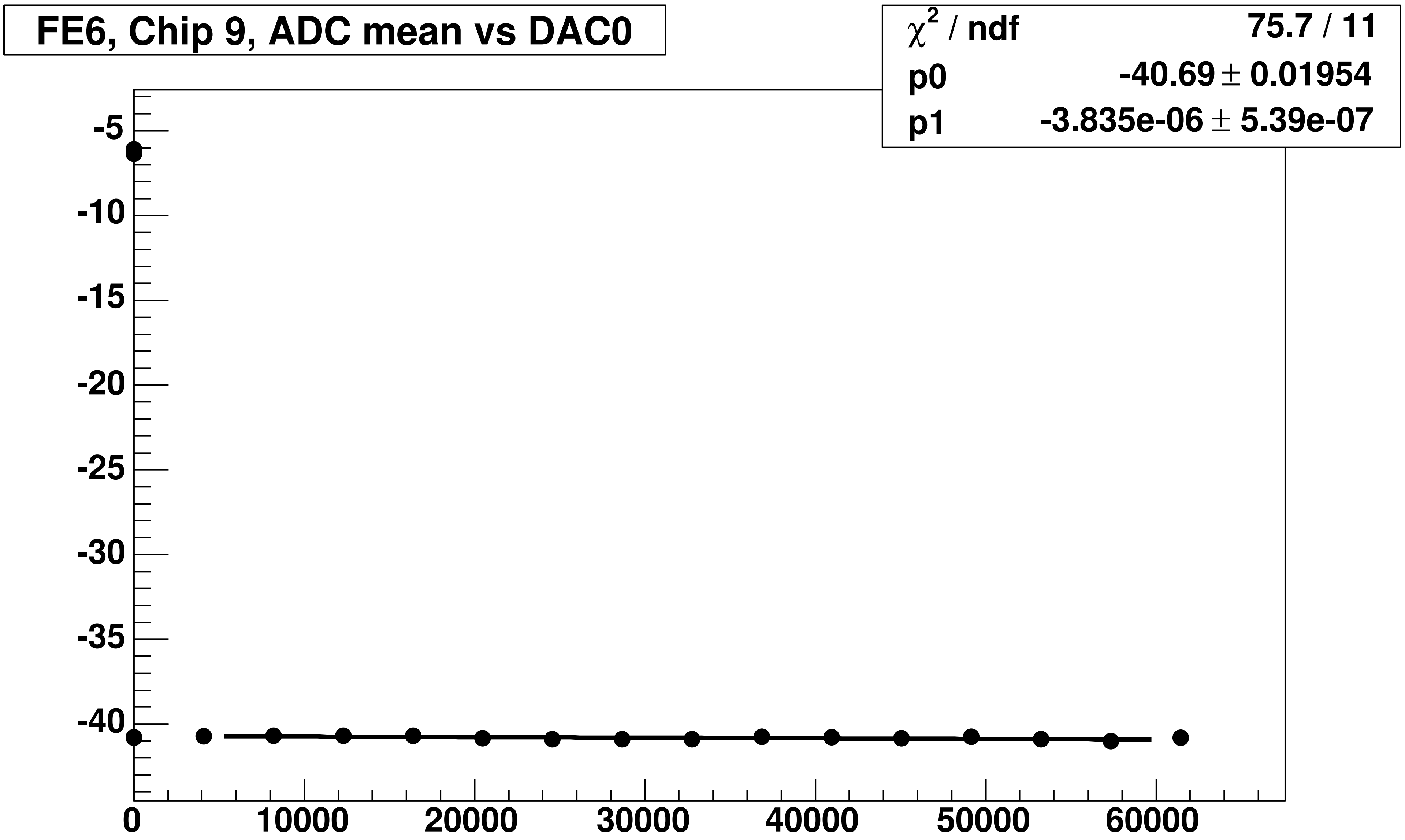


FE6, Chip 8, ADC mean vs DAC1
χ2 / ndf 5741 / 11
p0 -47 ± 0.02104
p1 0.4506 ± 6.779e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

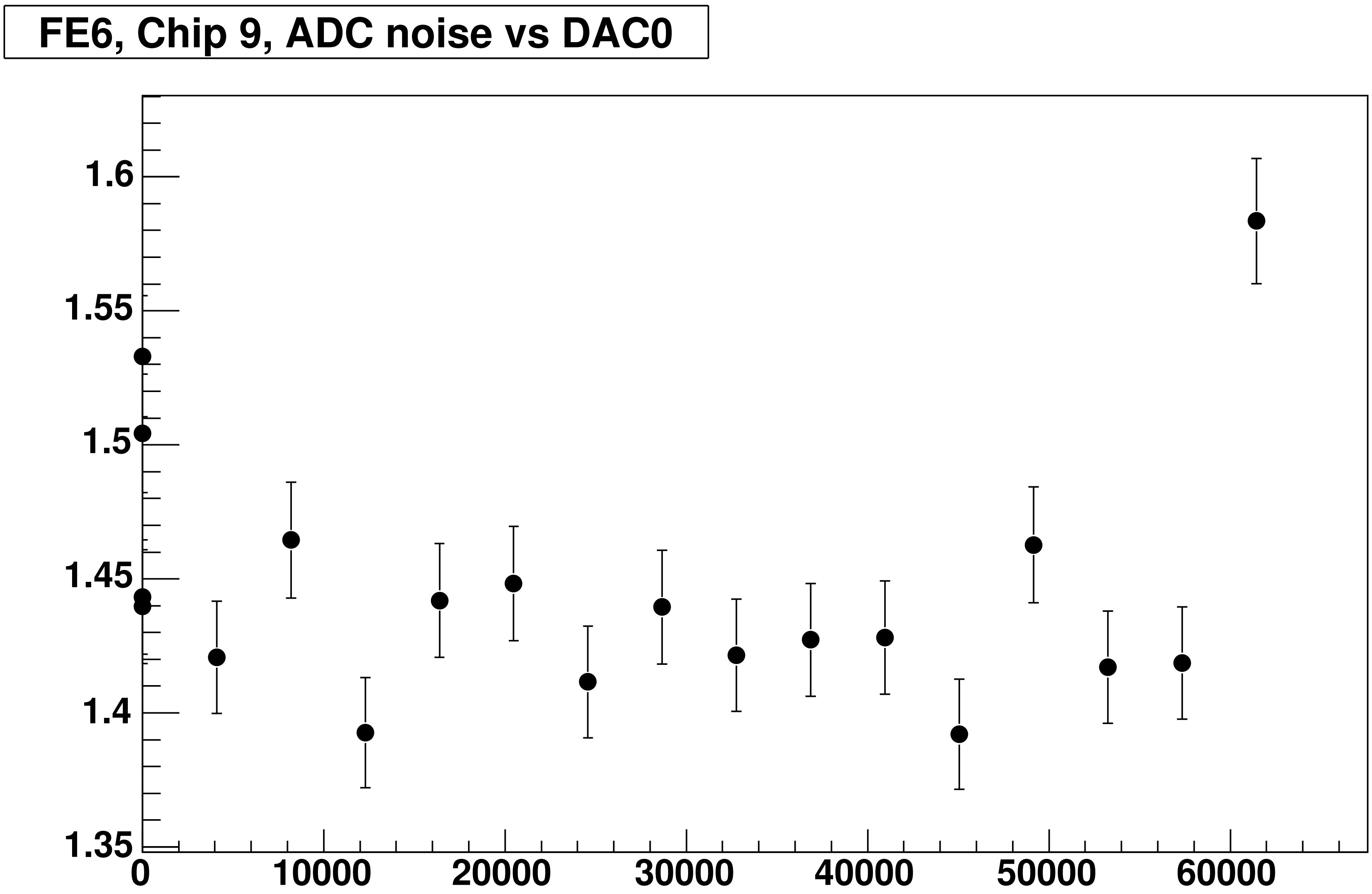


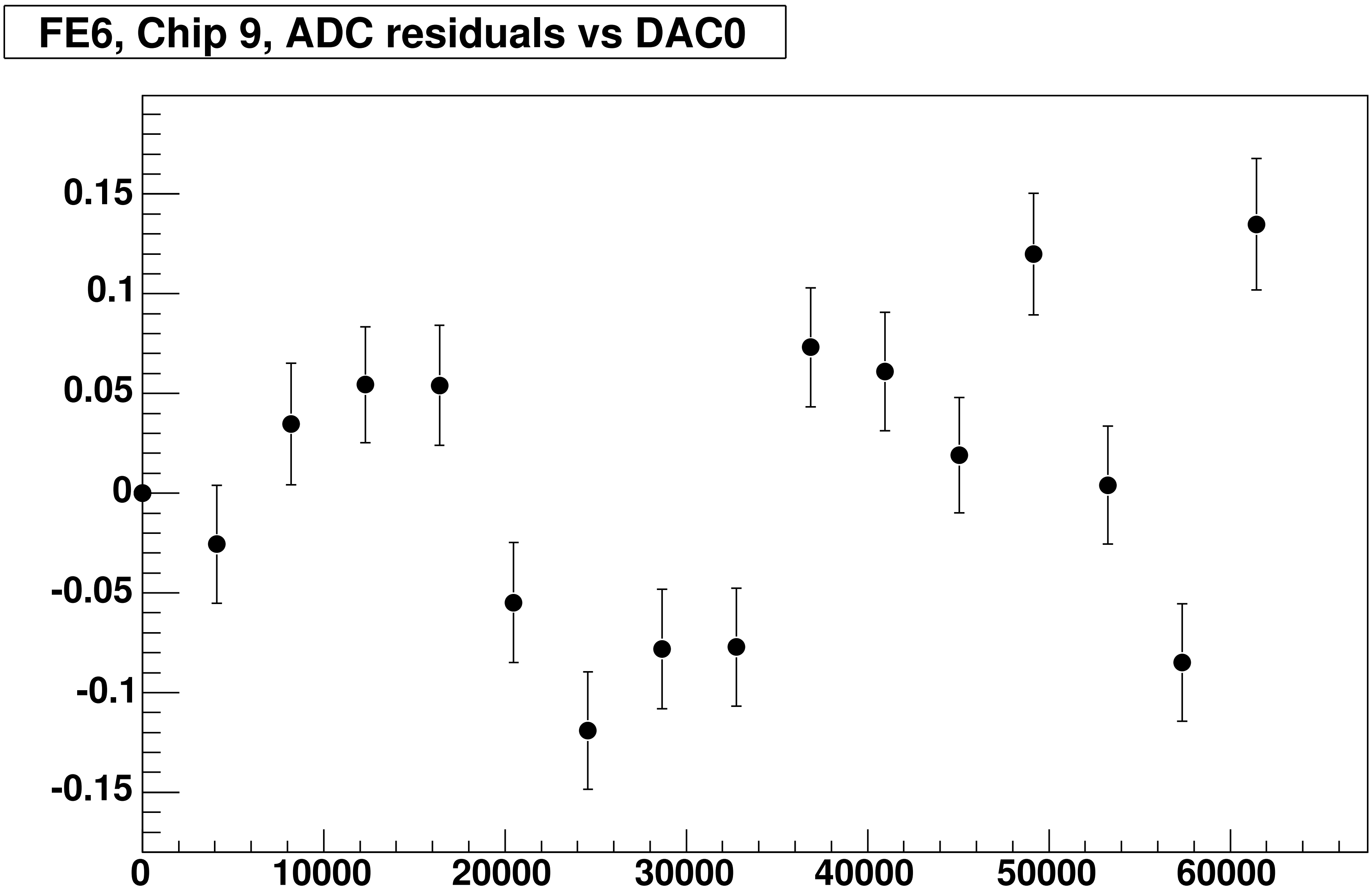
FE6, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE6, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

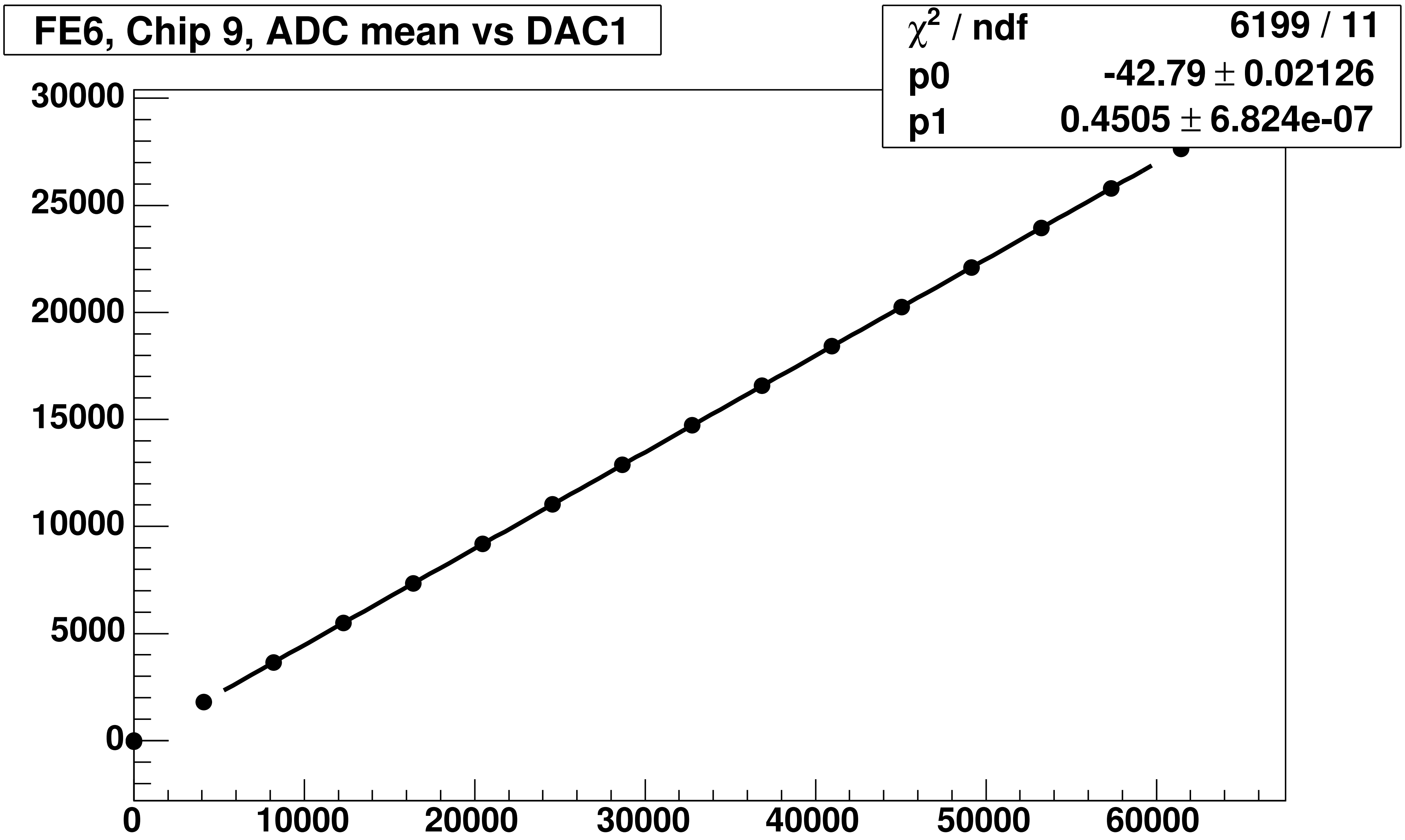


FE6, Chip 9, ADC mean vs DAC0
χ^2 / ndf 75.7 / 11
p0 -40.69 ± 0.01954
p1 -3.835e-06 ± 5.39e-07
-5
-10
-15
-20
-25
-30
-35
-40
0
10000
20000
30000
40000
50000
60000

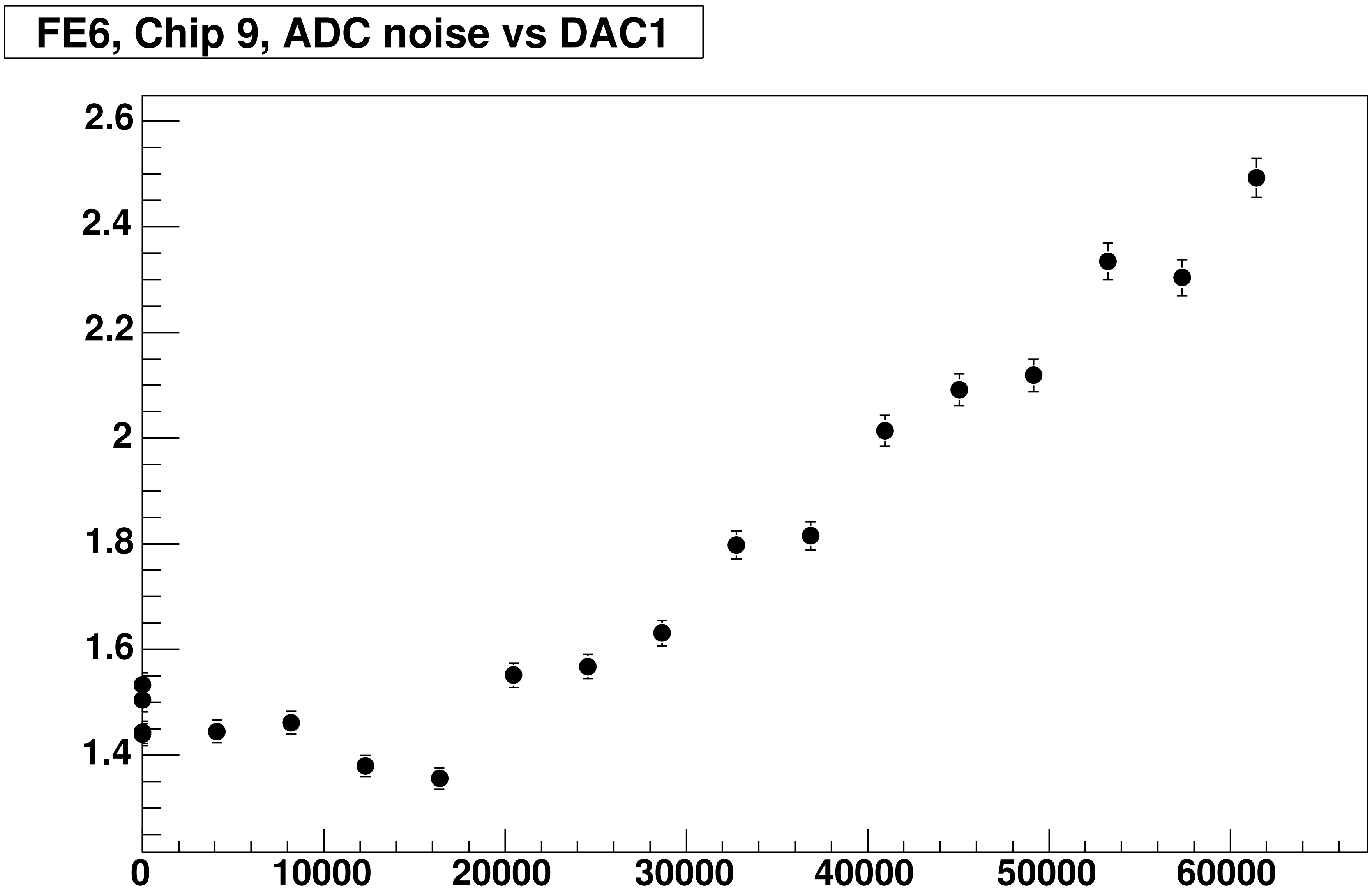

FE6, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

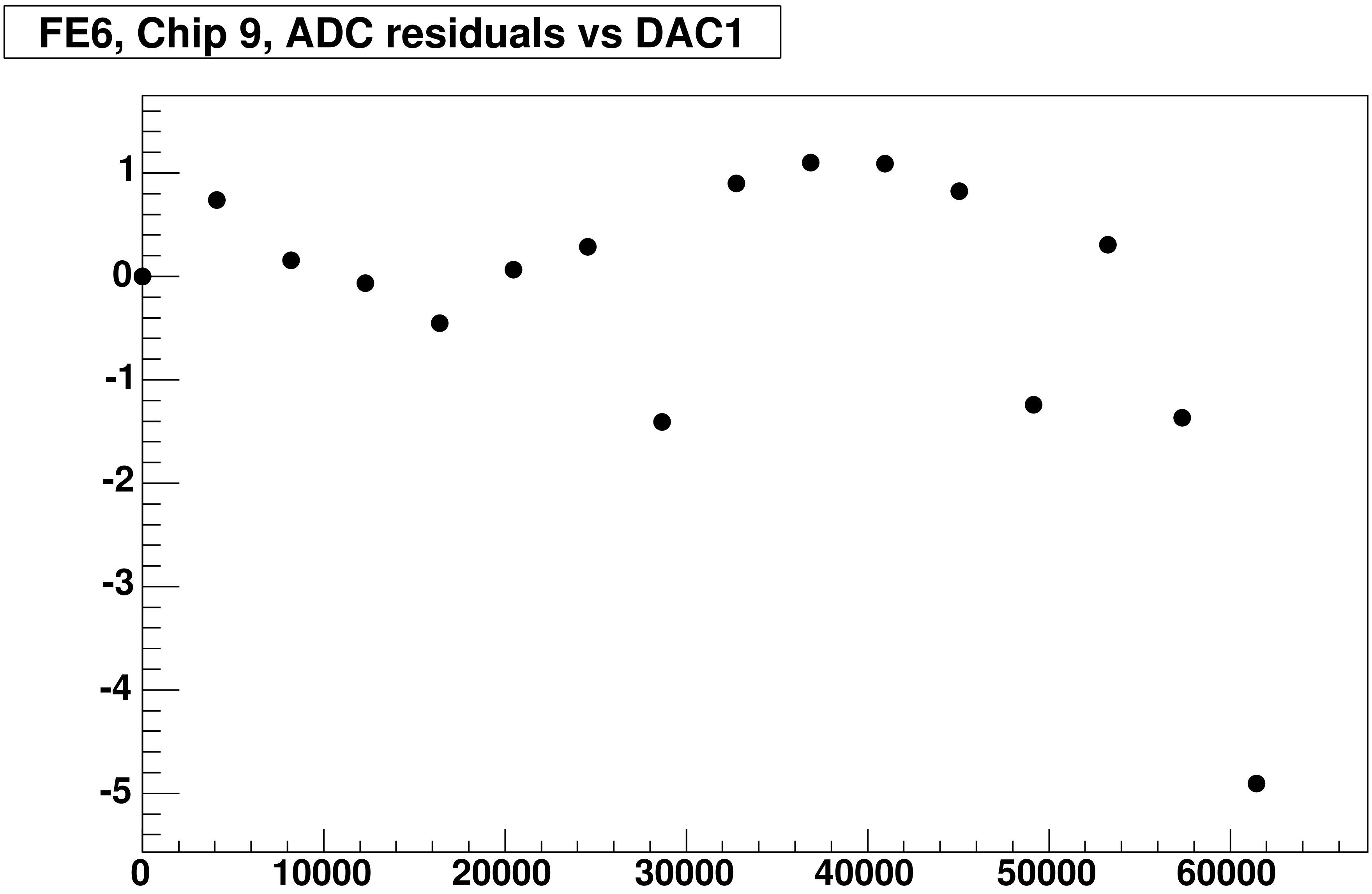


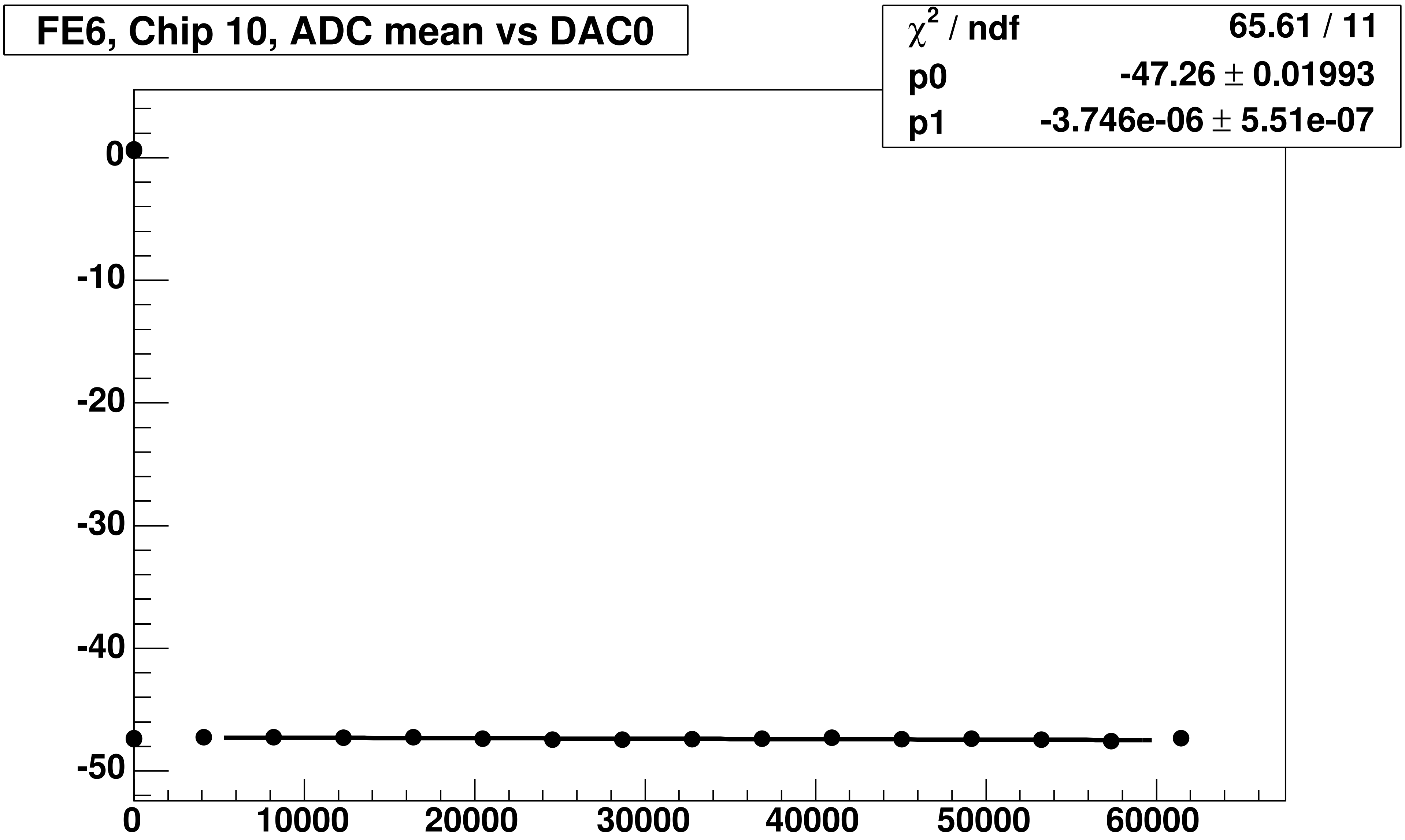
FE6, Chip 9, ADC residuals vs DAC0
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



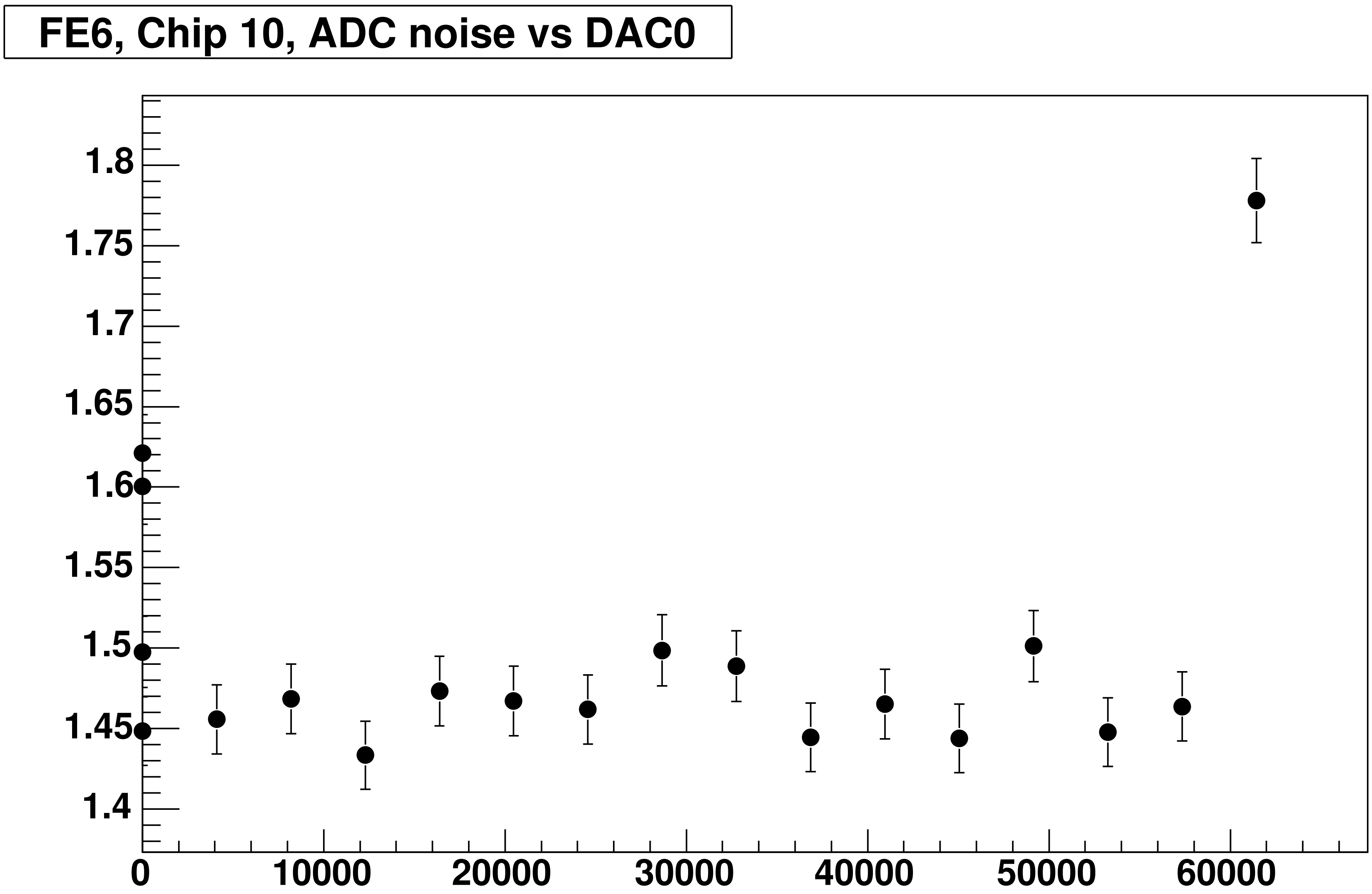
FE6, Chip 9, ADC mean vs DAC1
χ^2 / ndf 6199 / 11
p0 -42.79 ± 0.02126
p1 0.4505 ± 6.824e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

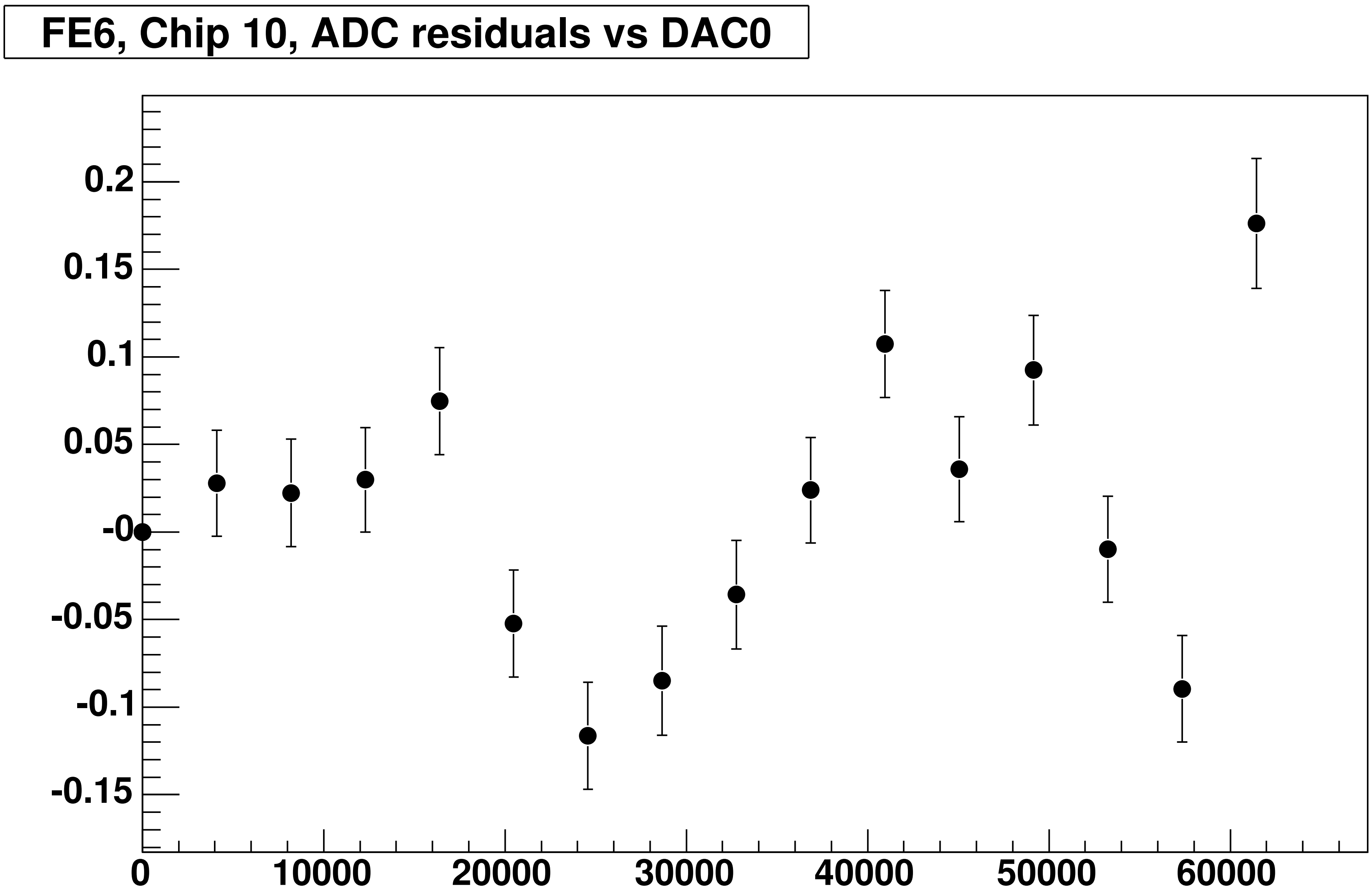

FE6, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



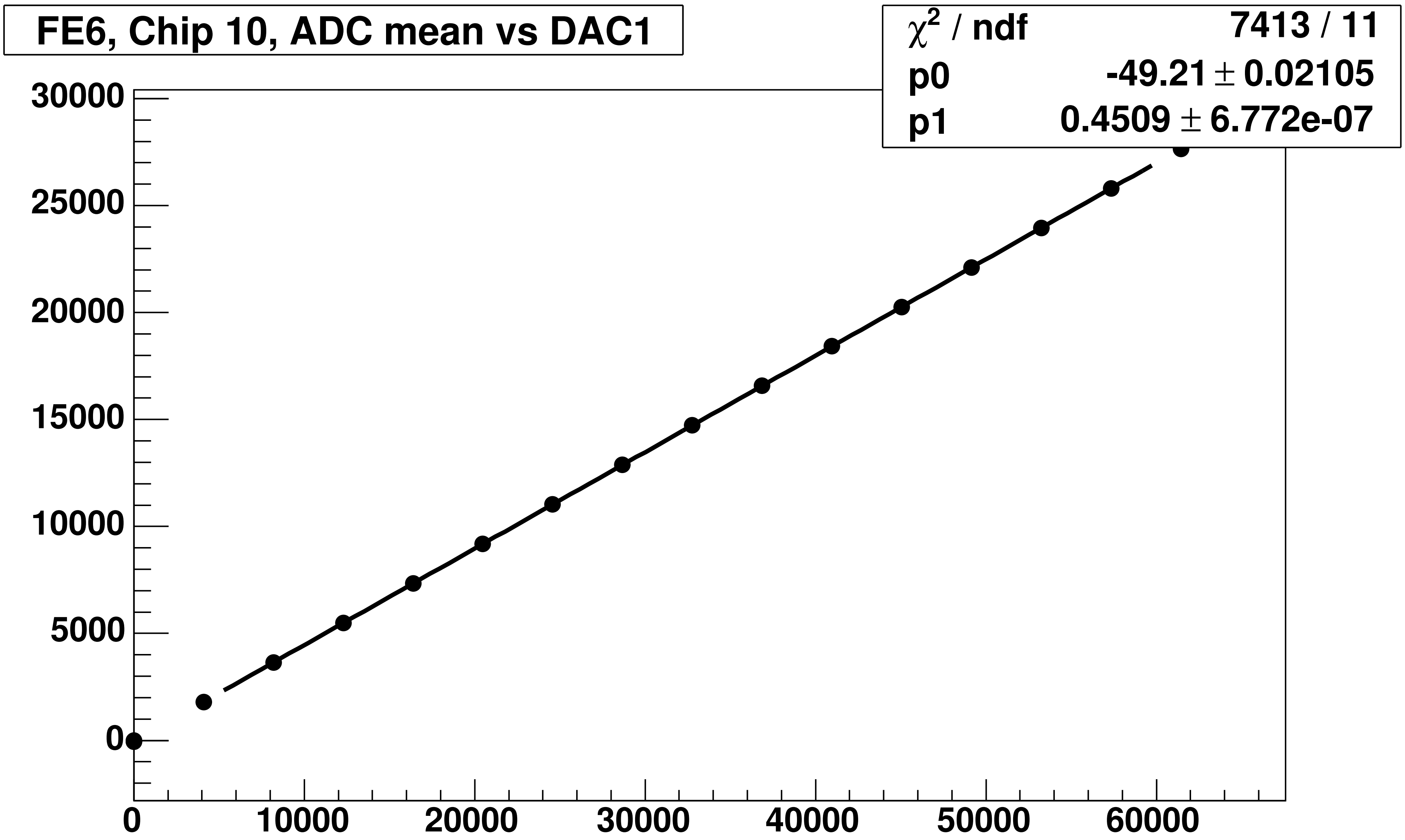
FE6, Chip 10, ADC mean vs DAC0
χ^2 / ndf 65.61 / 11
p0 -47.26 ± 0.01993
p1 -3.746e-06 ± 5.51e-07
0
-10
-20
-30
-40
-50
0
10000
20000
30000
40000
50000
60000



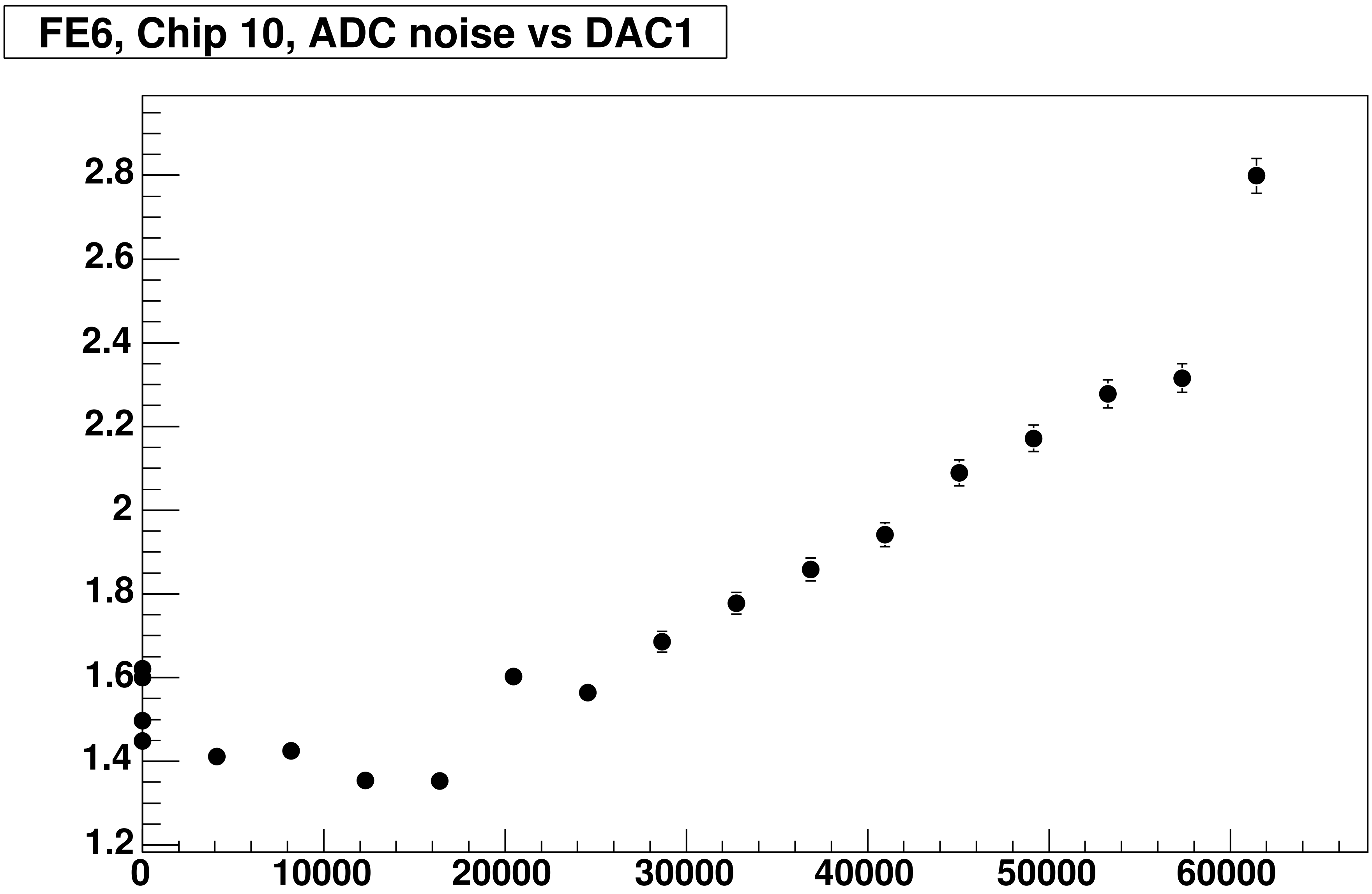
FE6, Chip 10, ADC noise vs DAC0
1.8
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000



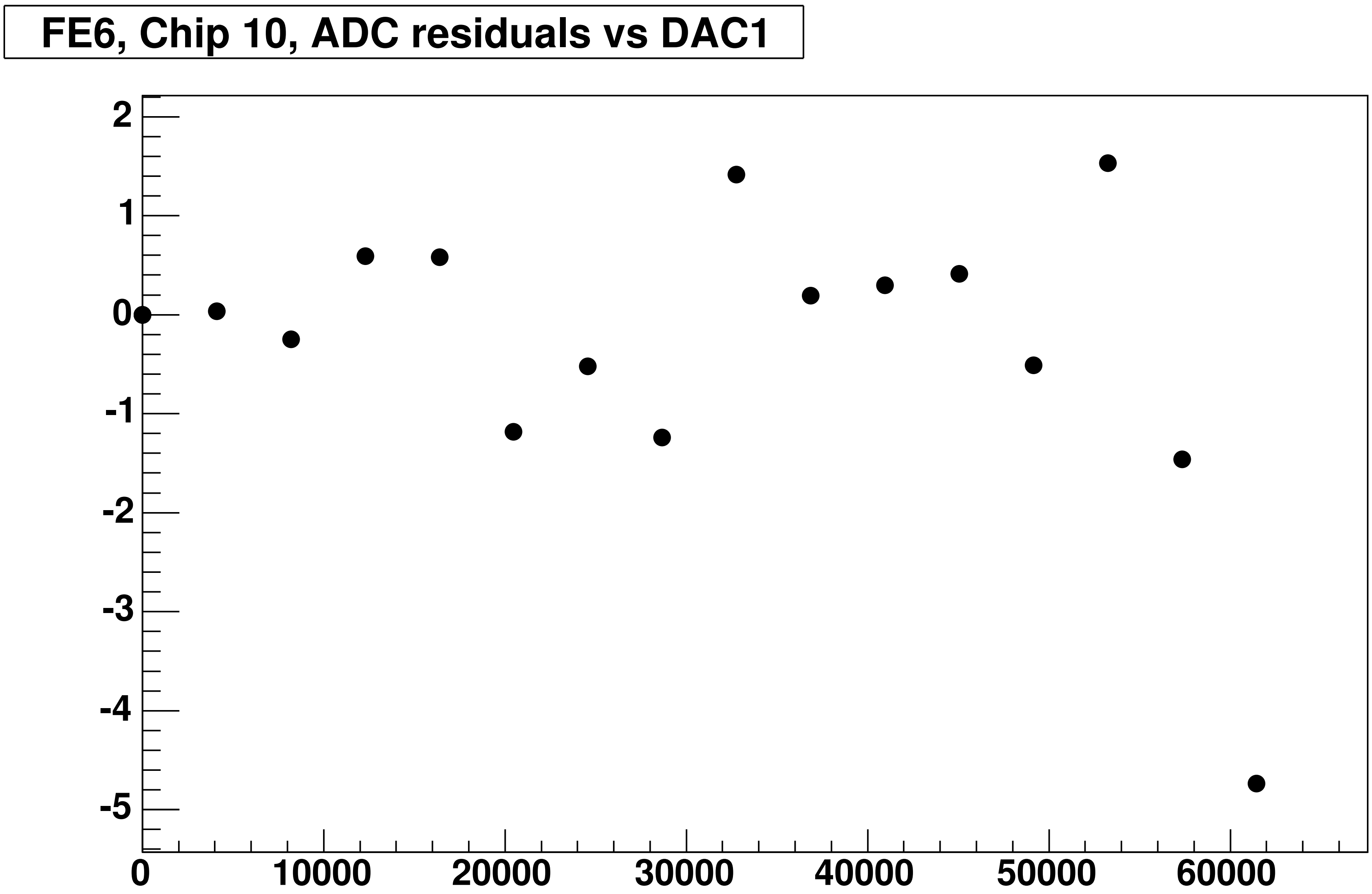
FE6, Chip 10, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

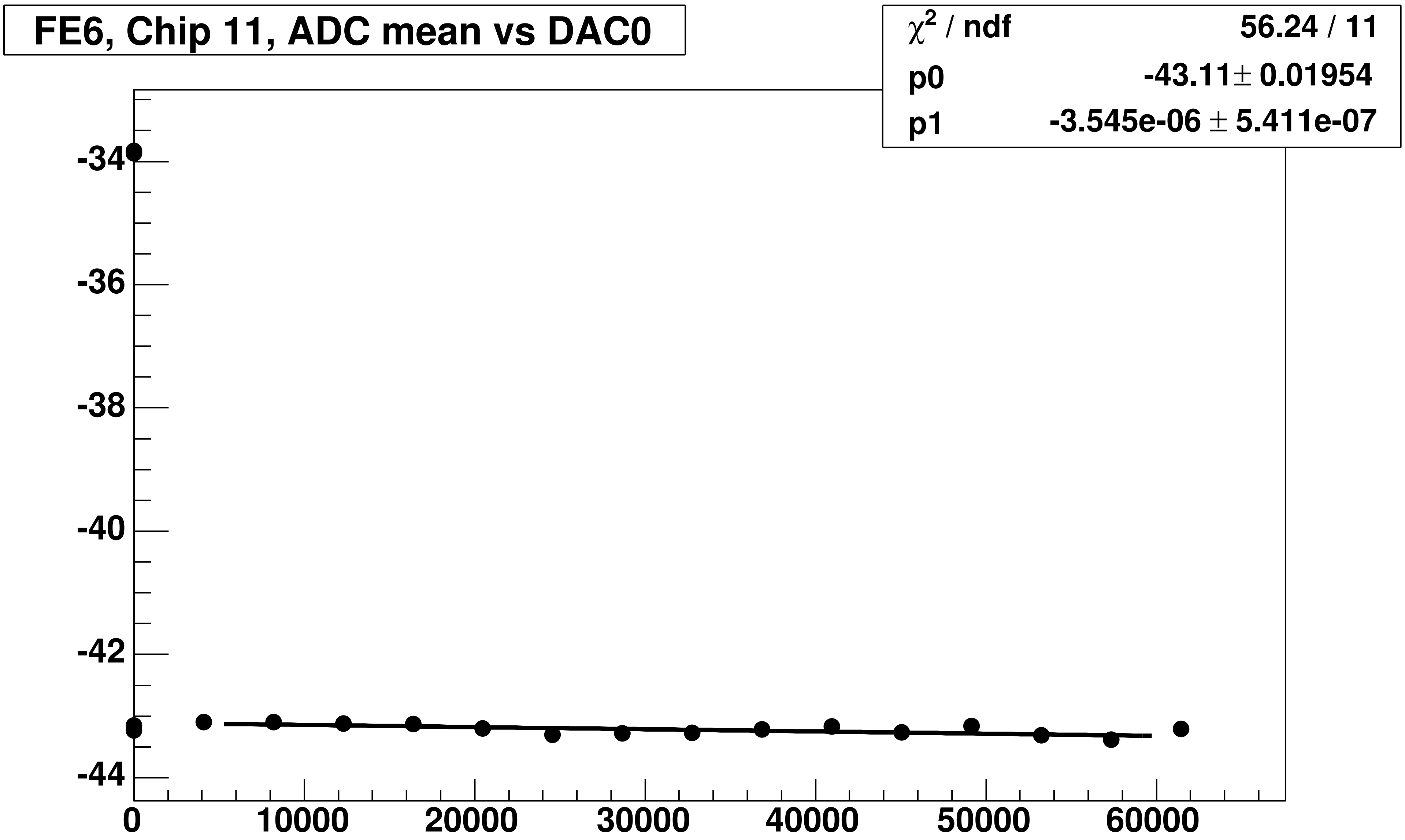


FE6, Chip 10, ADC mean vs DAC1
χ^2 / ndf 7413 / 11
p0 -49.21 ± 0.02105
p1 0.4509 ± 6.772e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

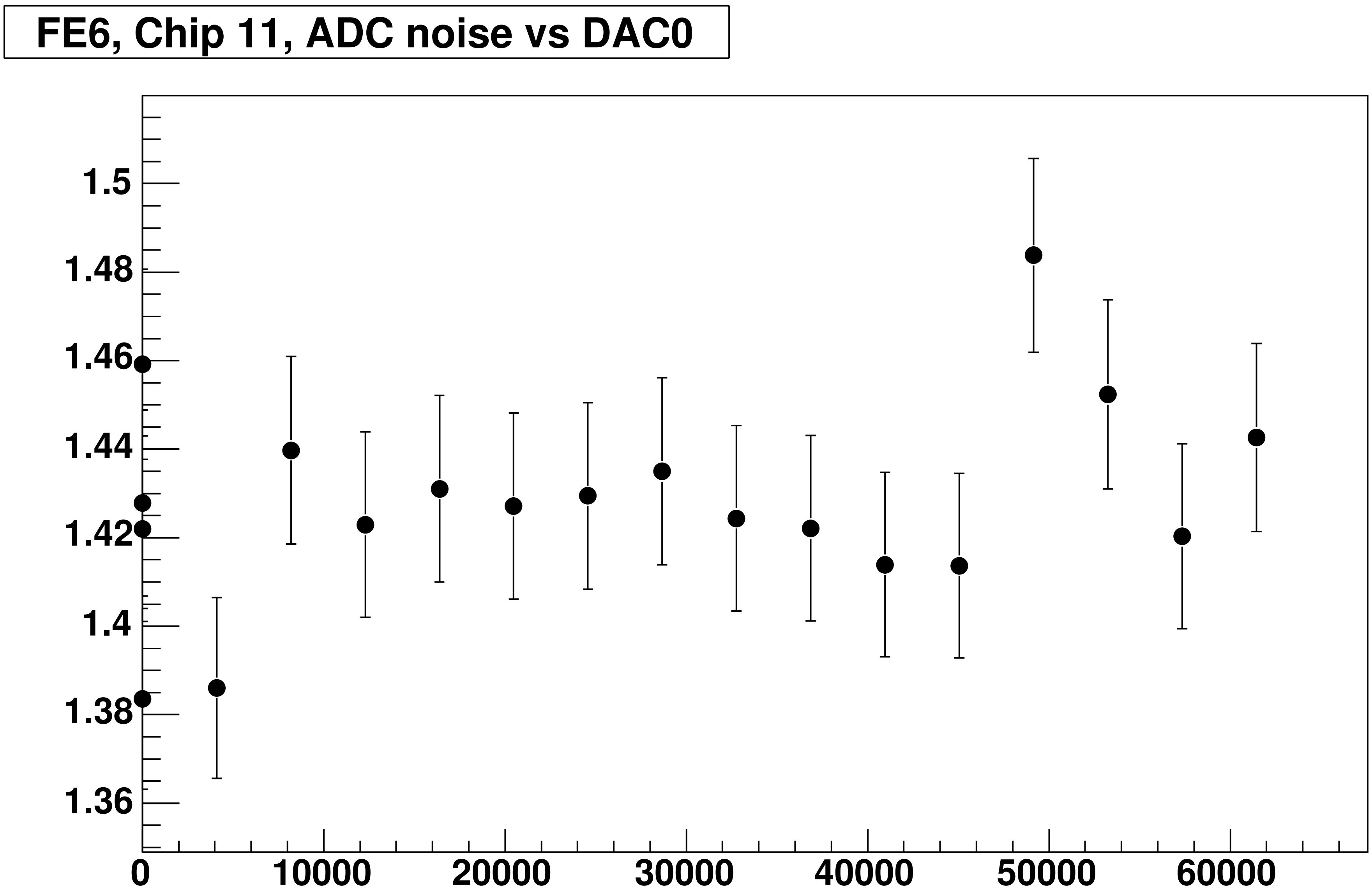


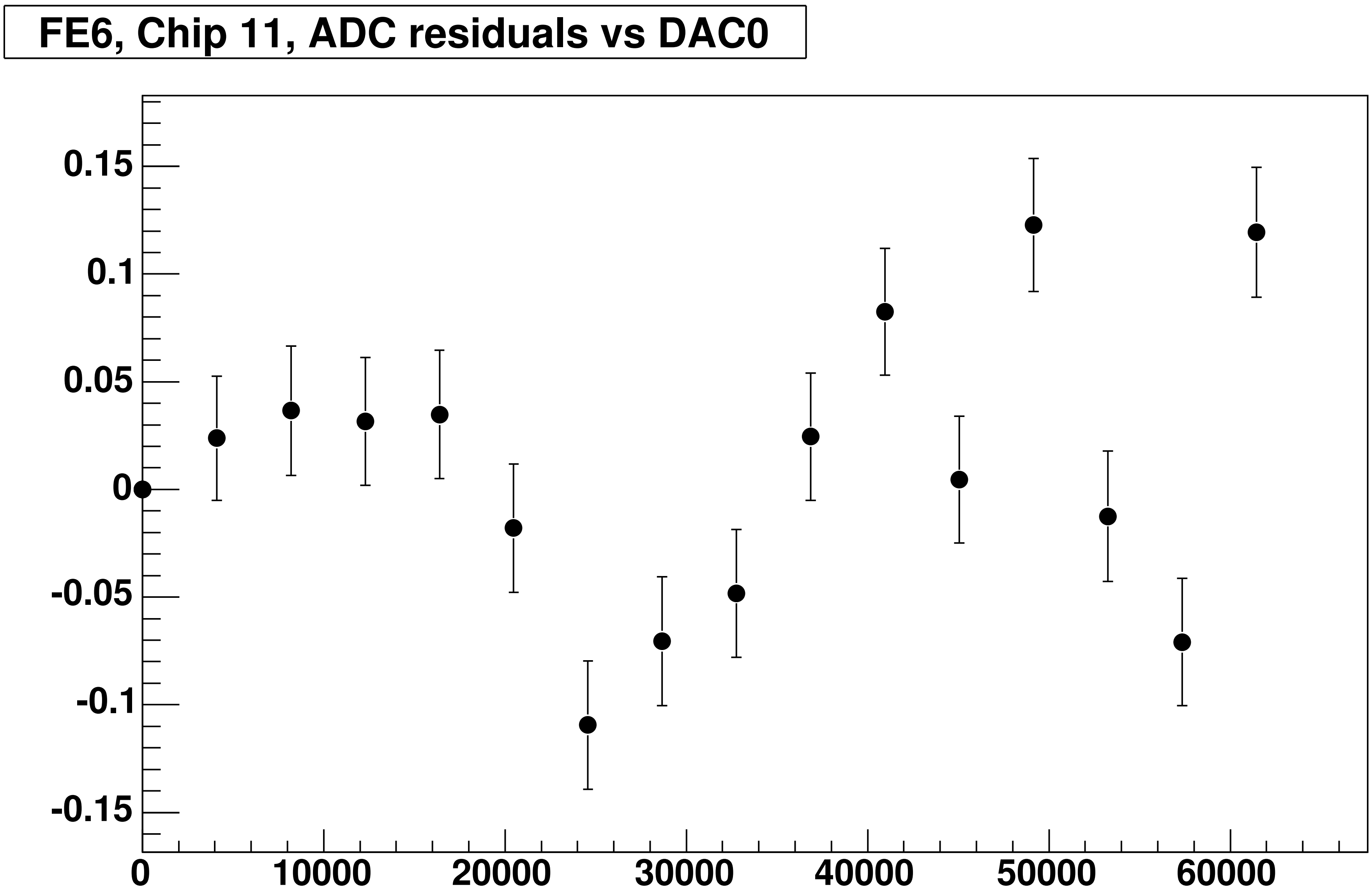
FE6, Chip 10, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

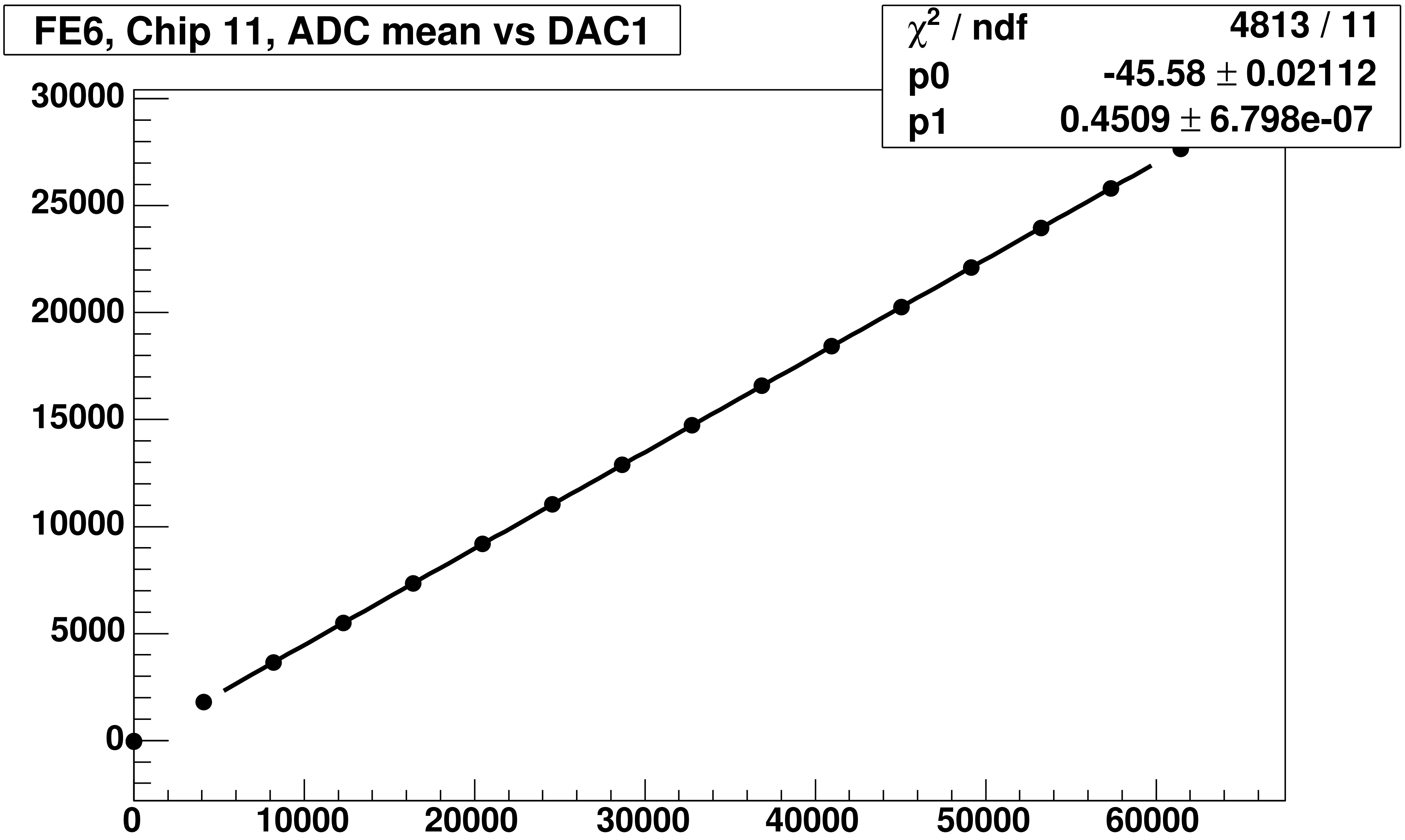

FE6, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



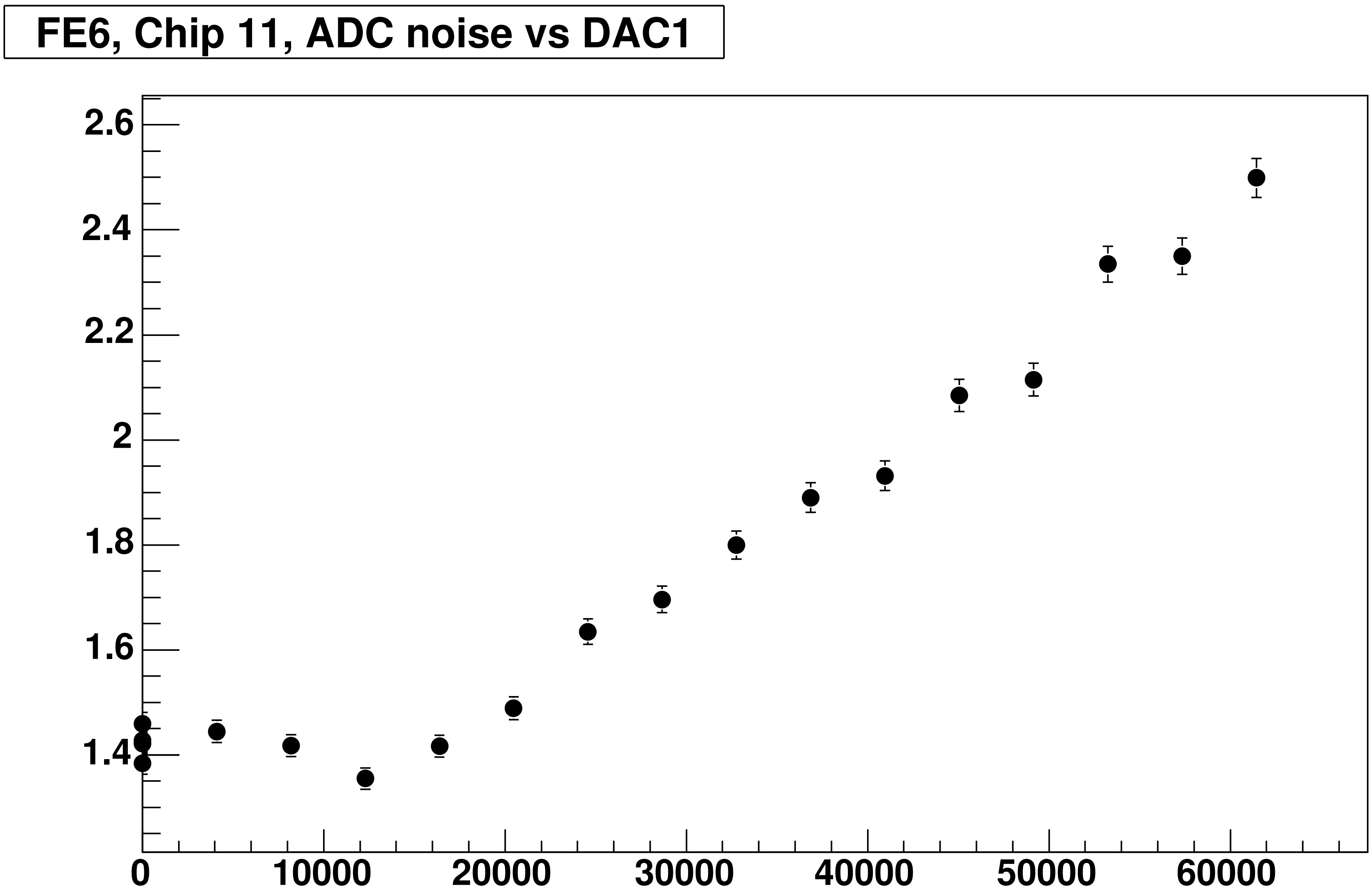
FE6, Chip 11, ADC mean vs DAC0
χ^2 / ndf 56.24 / 11
p0 -43.11± 0.01954
p1 -3.545e-06 ± 5.411e-07
-34
-36
-38
-40
-42
-44
0
10000
20000
30000
40000
50000
60000


FE6, Chip 11, ADC noise vs DAC0
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
0
10000
20000
30000
40000
50000
60000

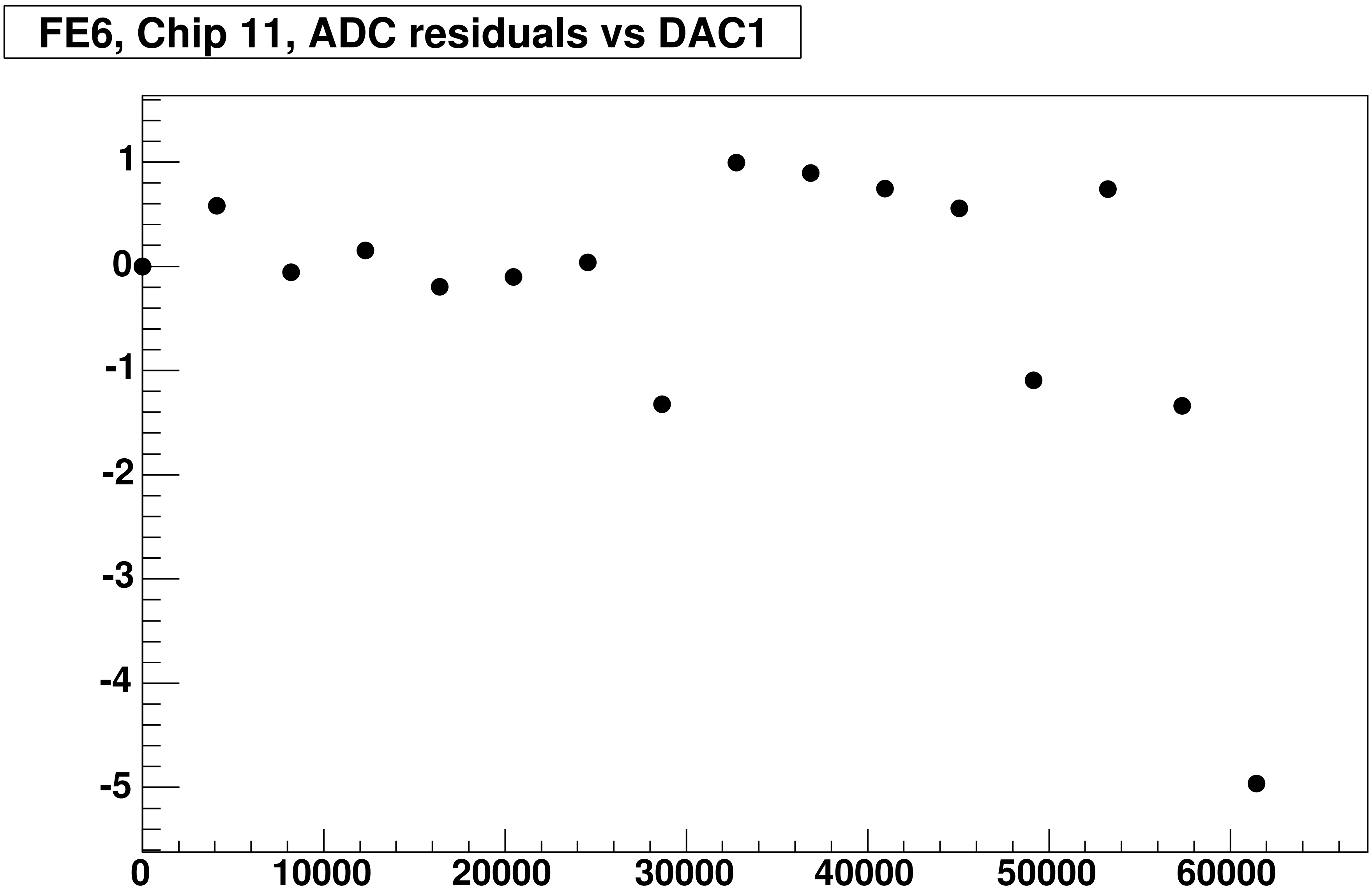

FE6, Chip 11, ADC residuals vs DAC0
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



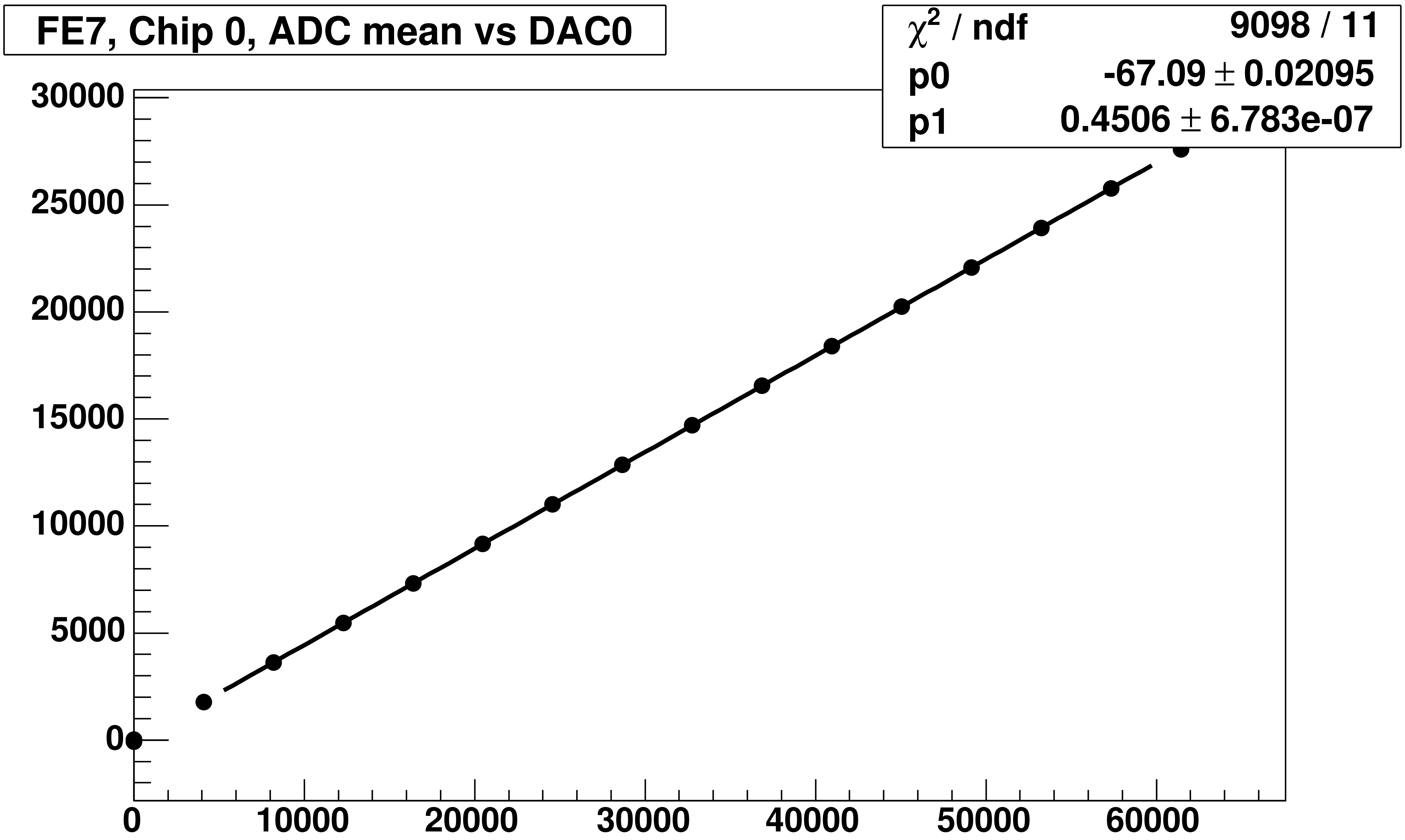
FE6, Chip 11, ADC mean vs DAC1
χ^2 / ndf 4813 / 11
p0 -45.58 ± 0.02112
p1 0.4509 ± 6.798e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



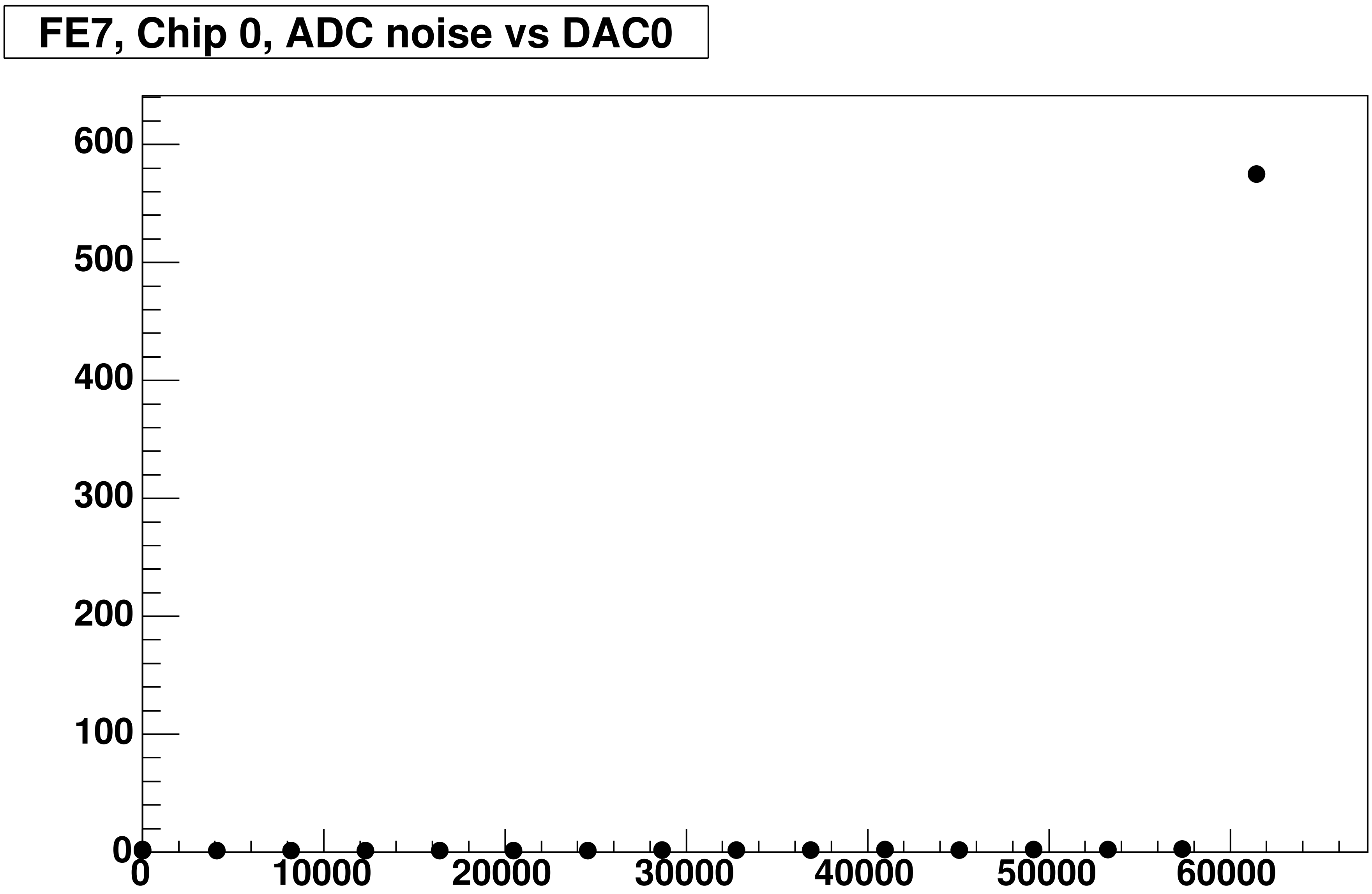
FE6, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

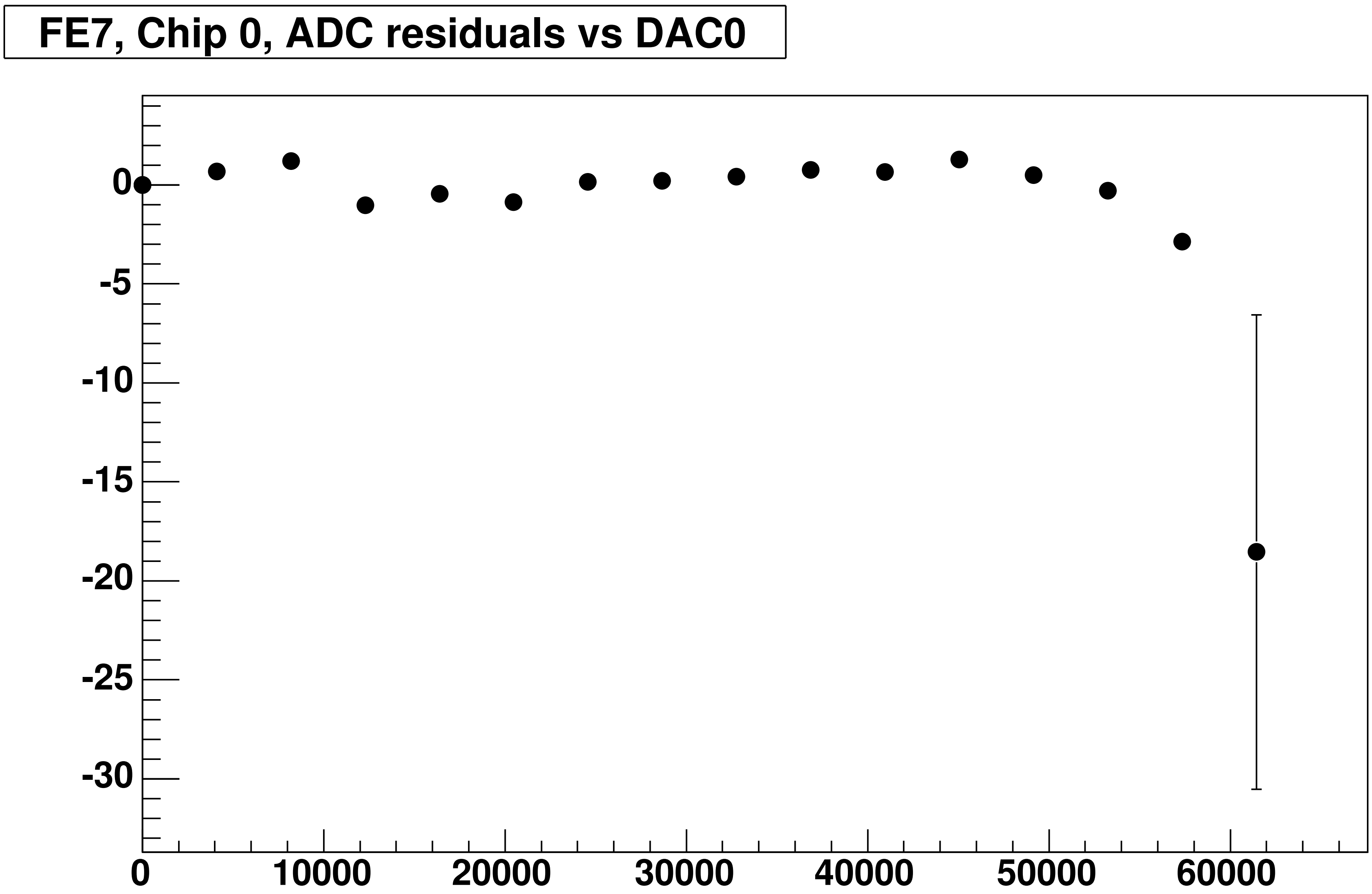


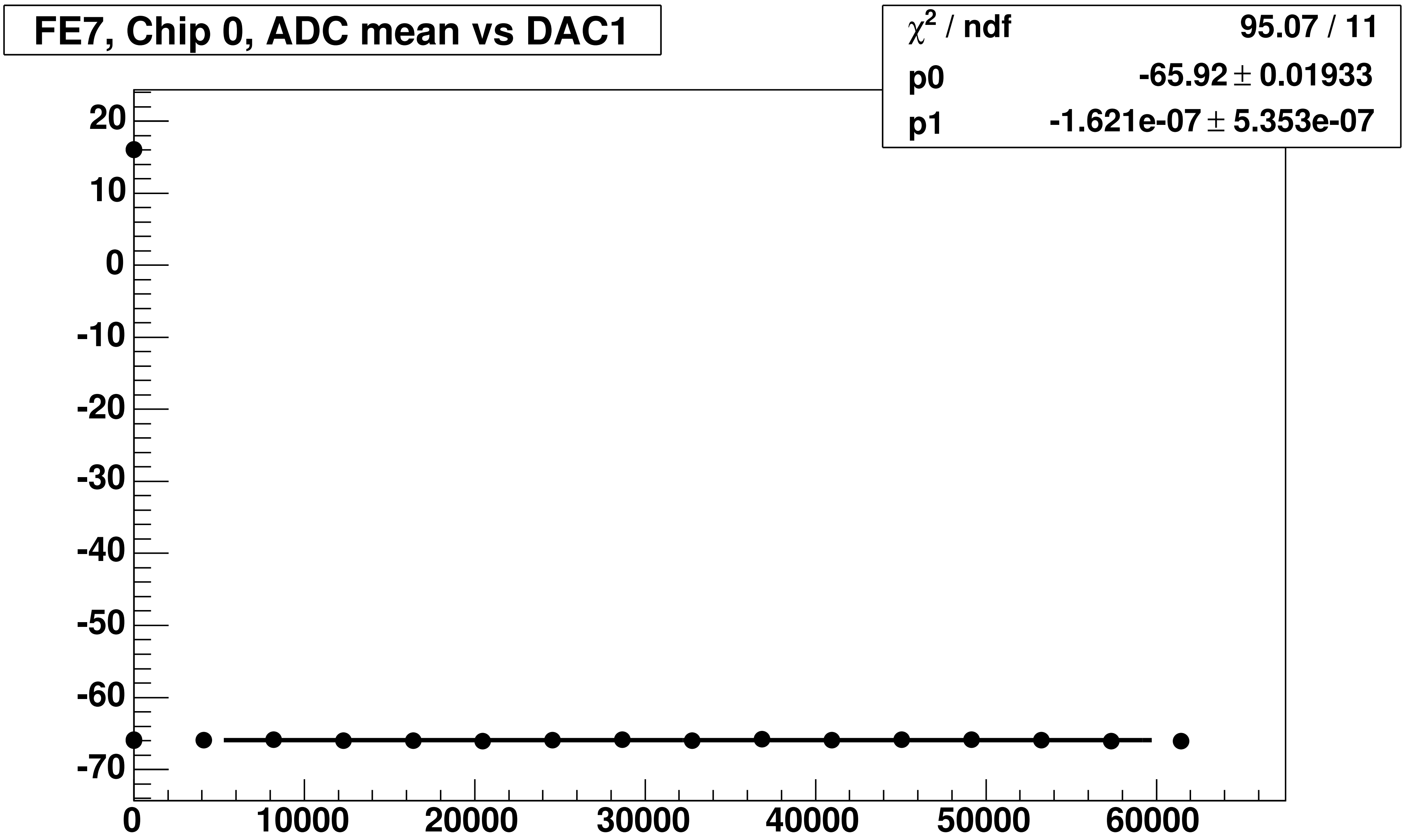
FE6, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



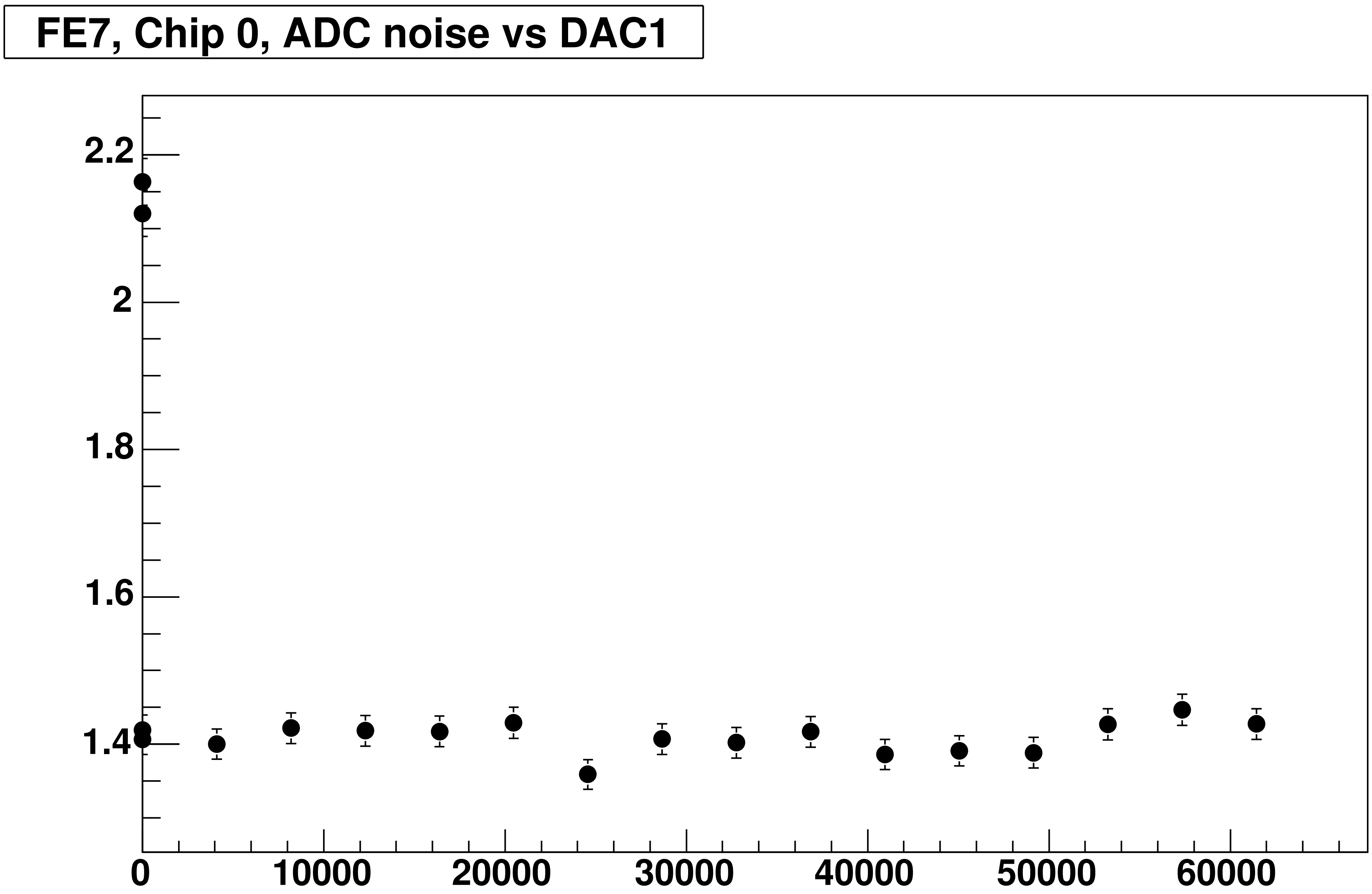
FE7, Chip 0, ADC mean vs DAC0
χ^2 / ndf 9098 / 11
p0 -67.09 ± 0.02095
p1 0.4506 ± 6.783e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

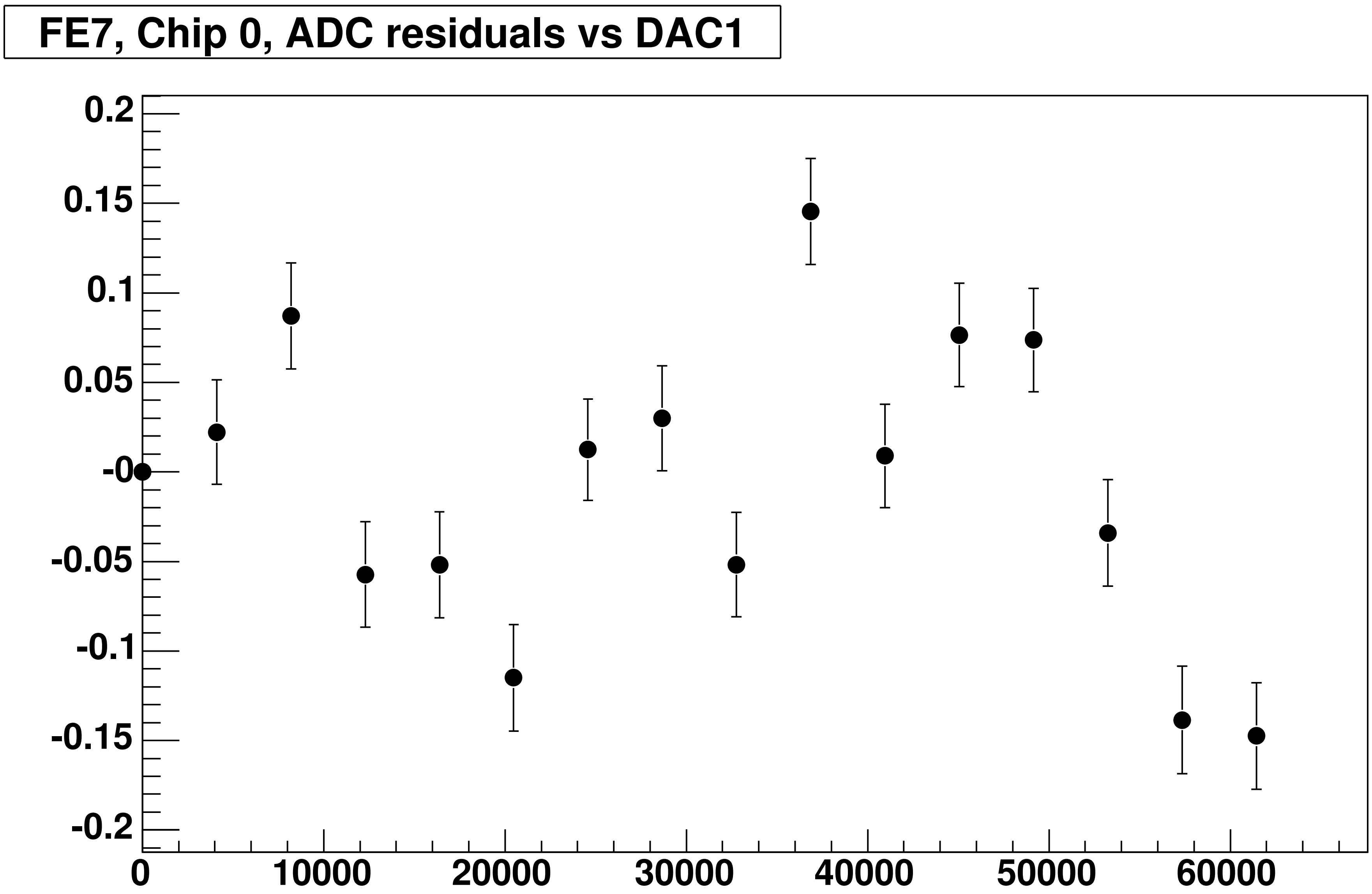

FE7, Chip 0, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

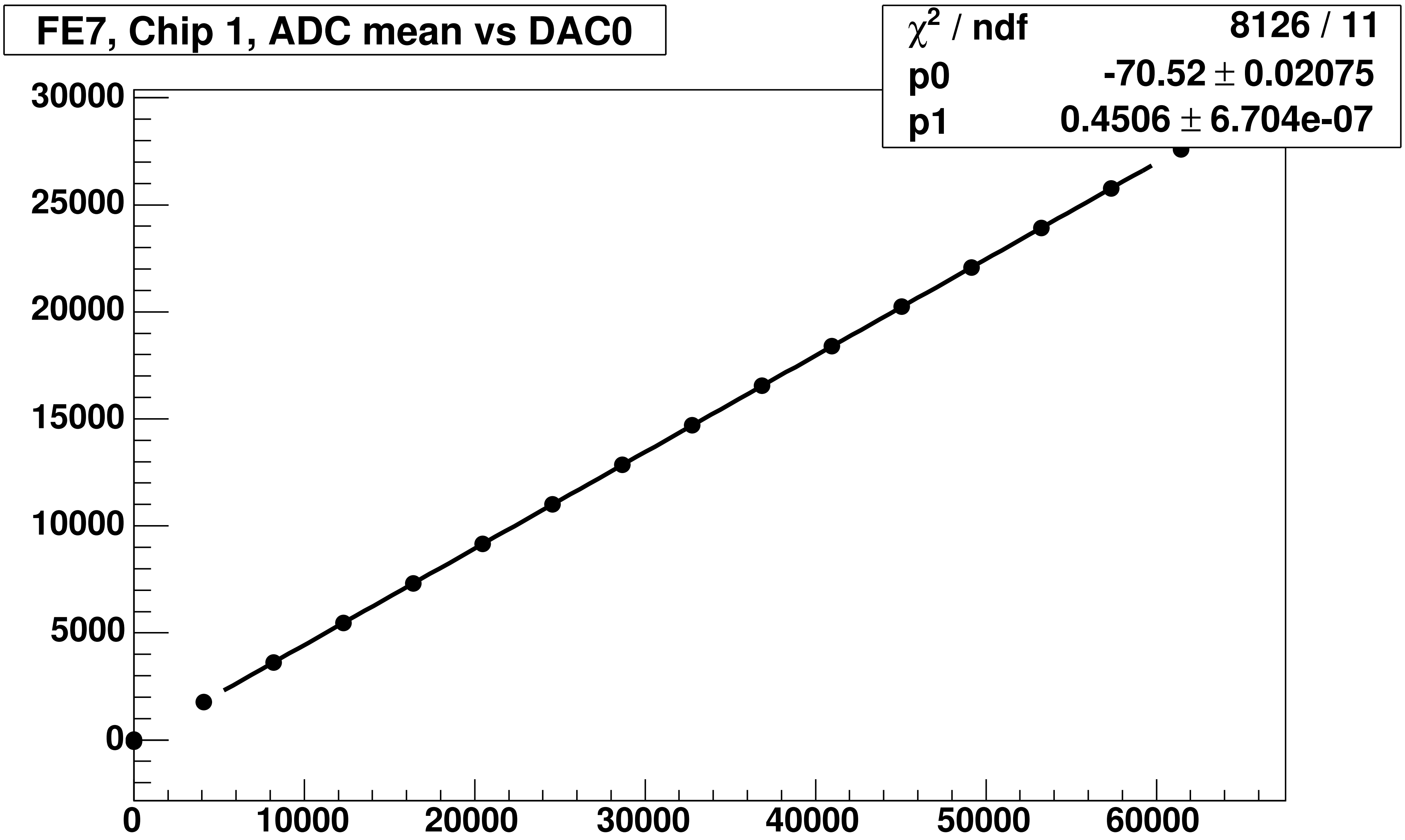

FE7, Chip 0, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

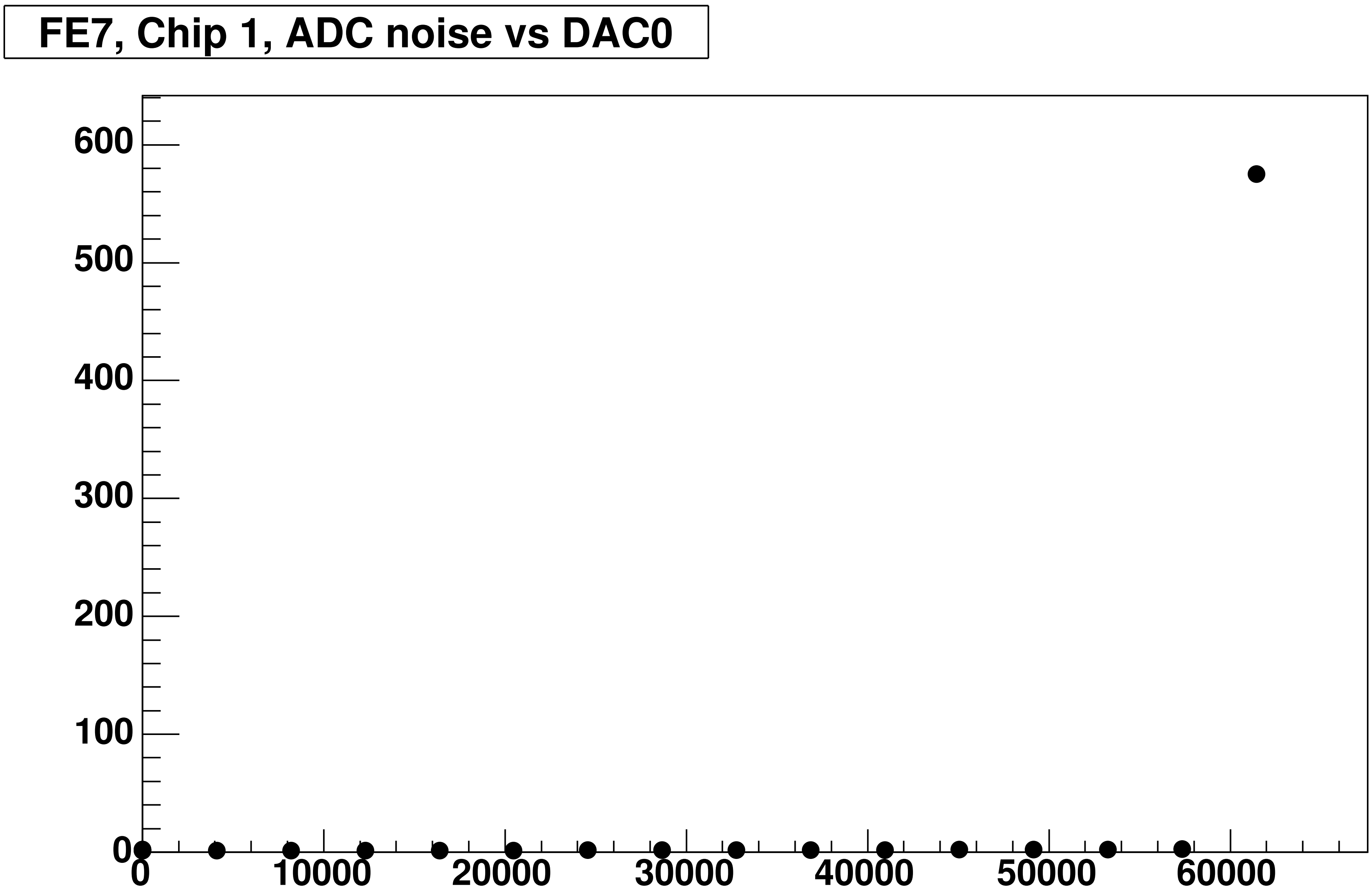


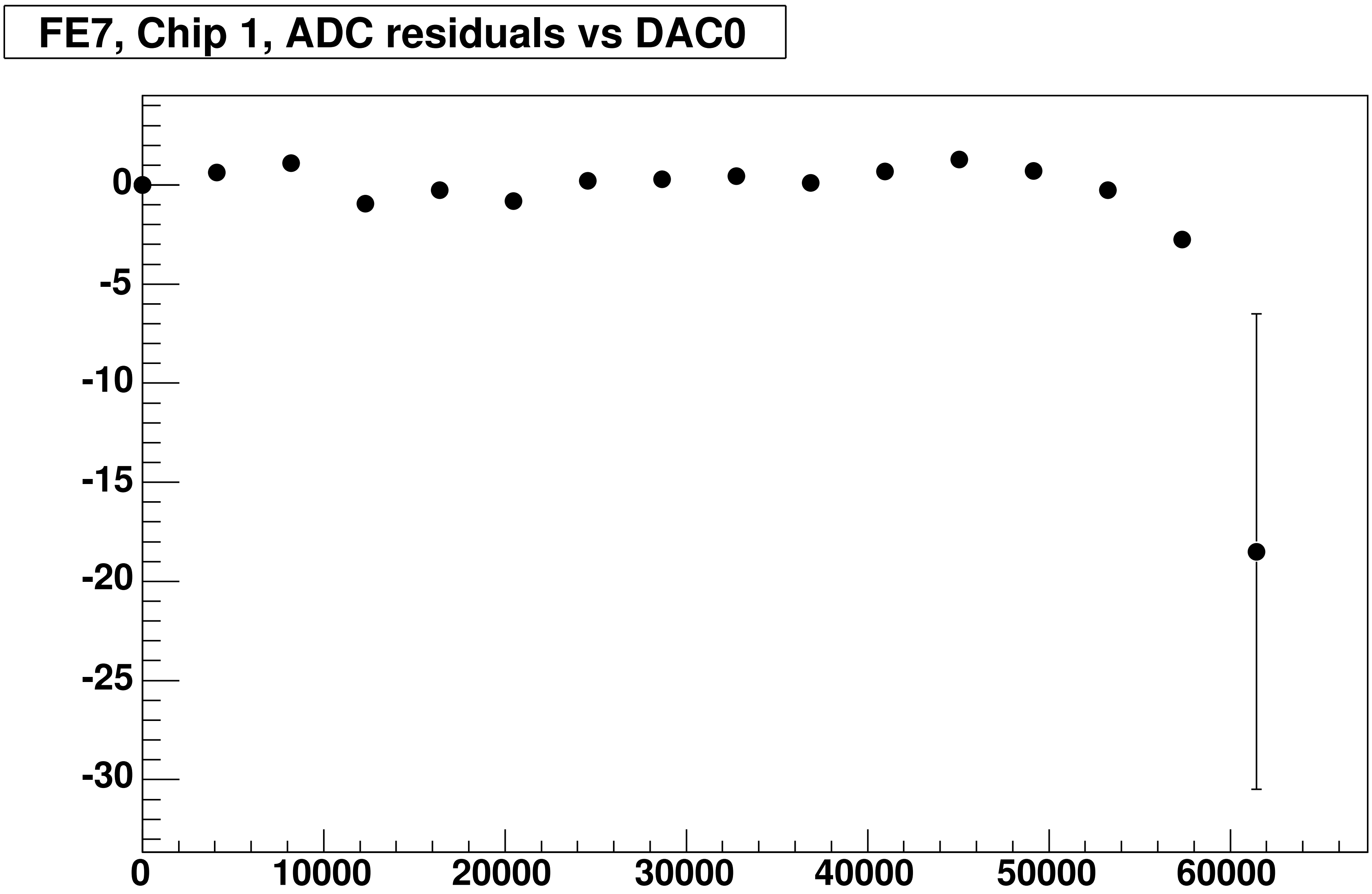
FE7, Chip 0, ADC mean vs DAC1
χ^2 / ndf 95.07 / 11
p0 -65.92 ± 0.01933
p1 -1.621e-07 ± 5.353e-07
20
10
0
-10
-20
-30
-40
-50
-60
-70
0
10000
20000
30000
40000
50000
60000

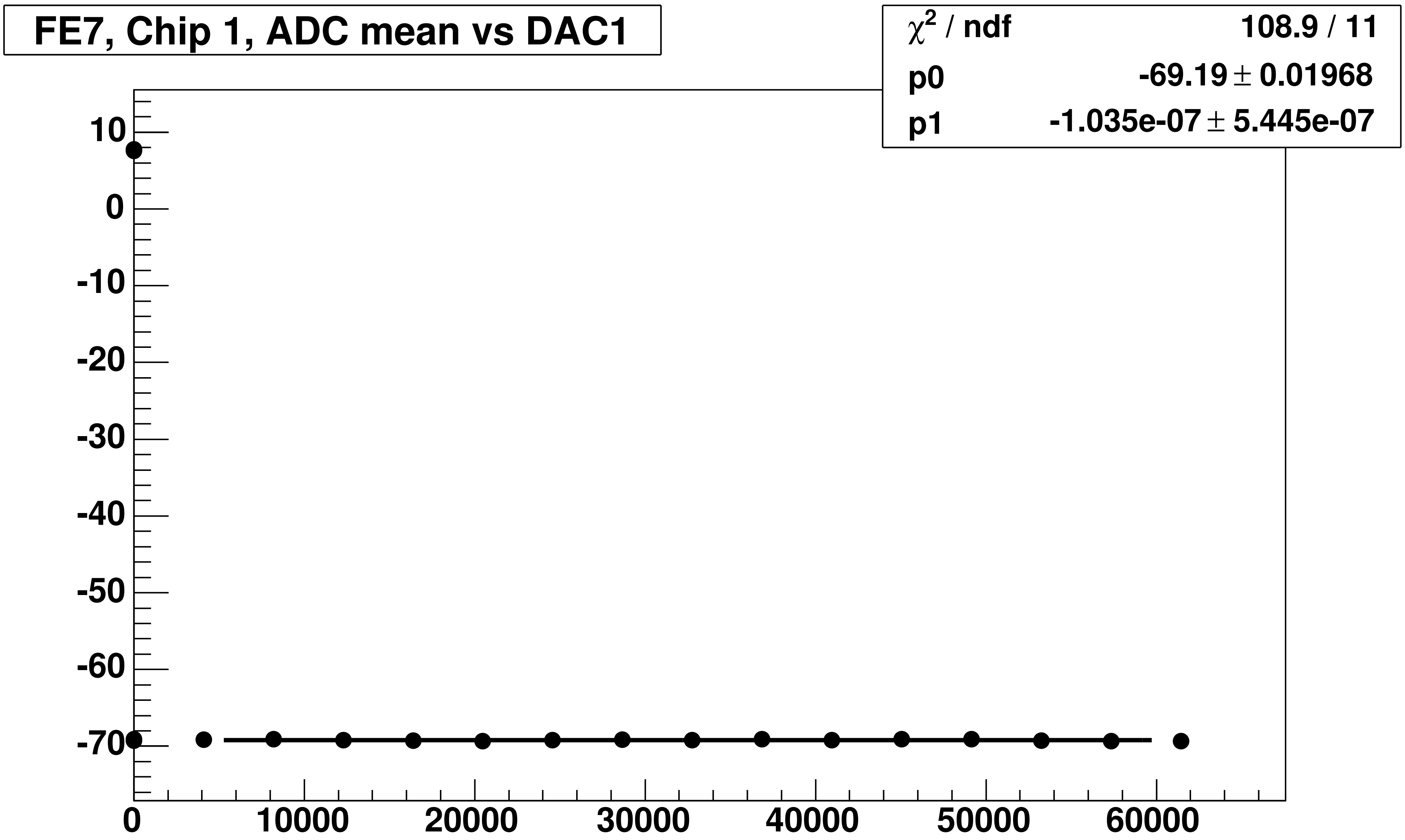

FE7, Chip 0, ADC noise vs DAC1
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

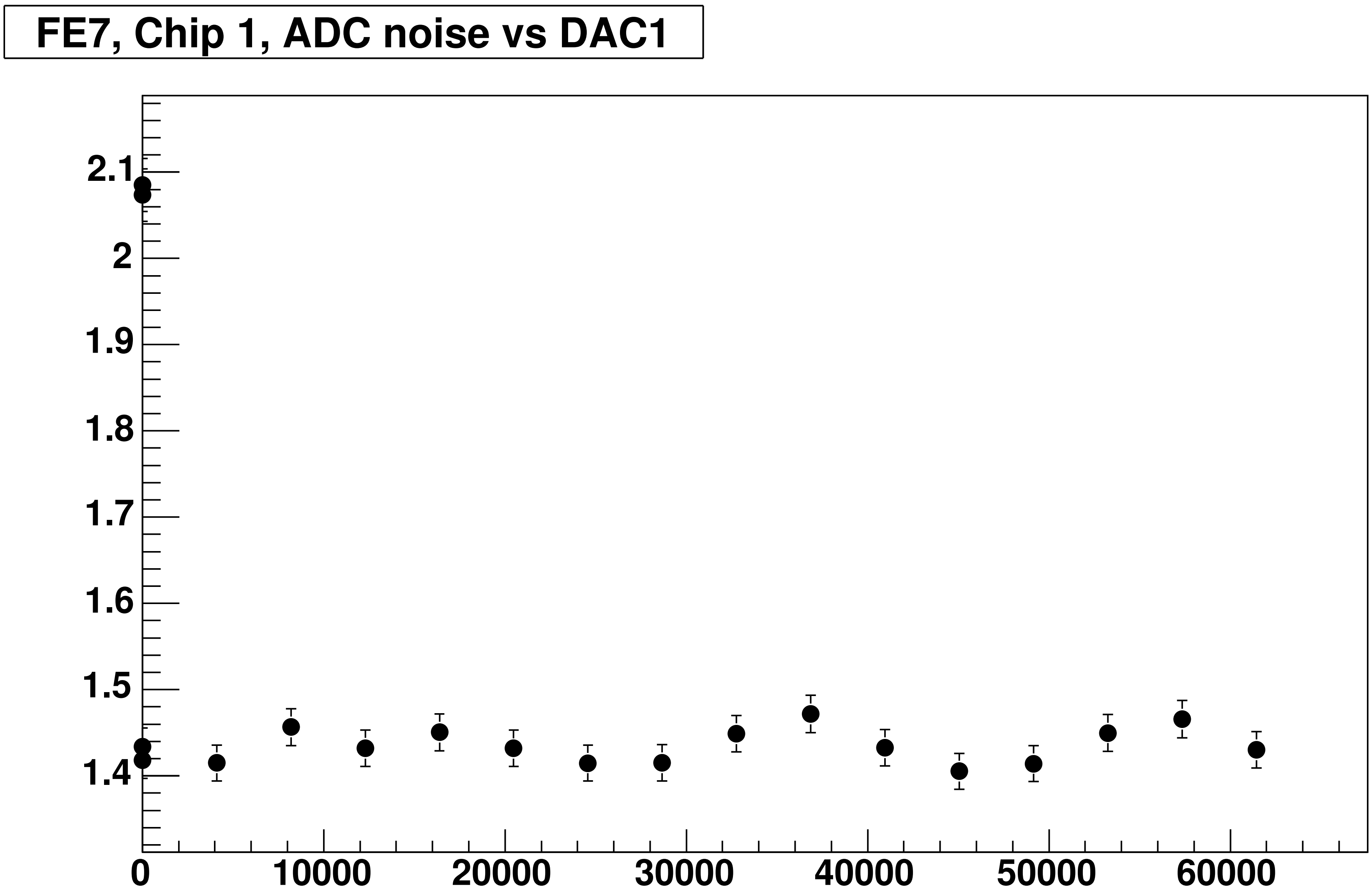

FE7, Chip 0, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

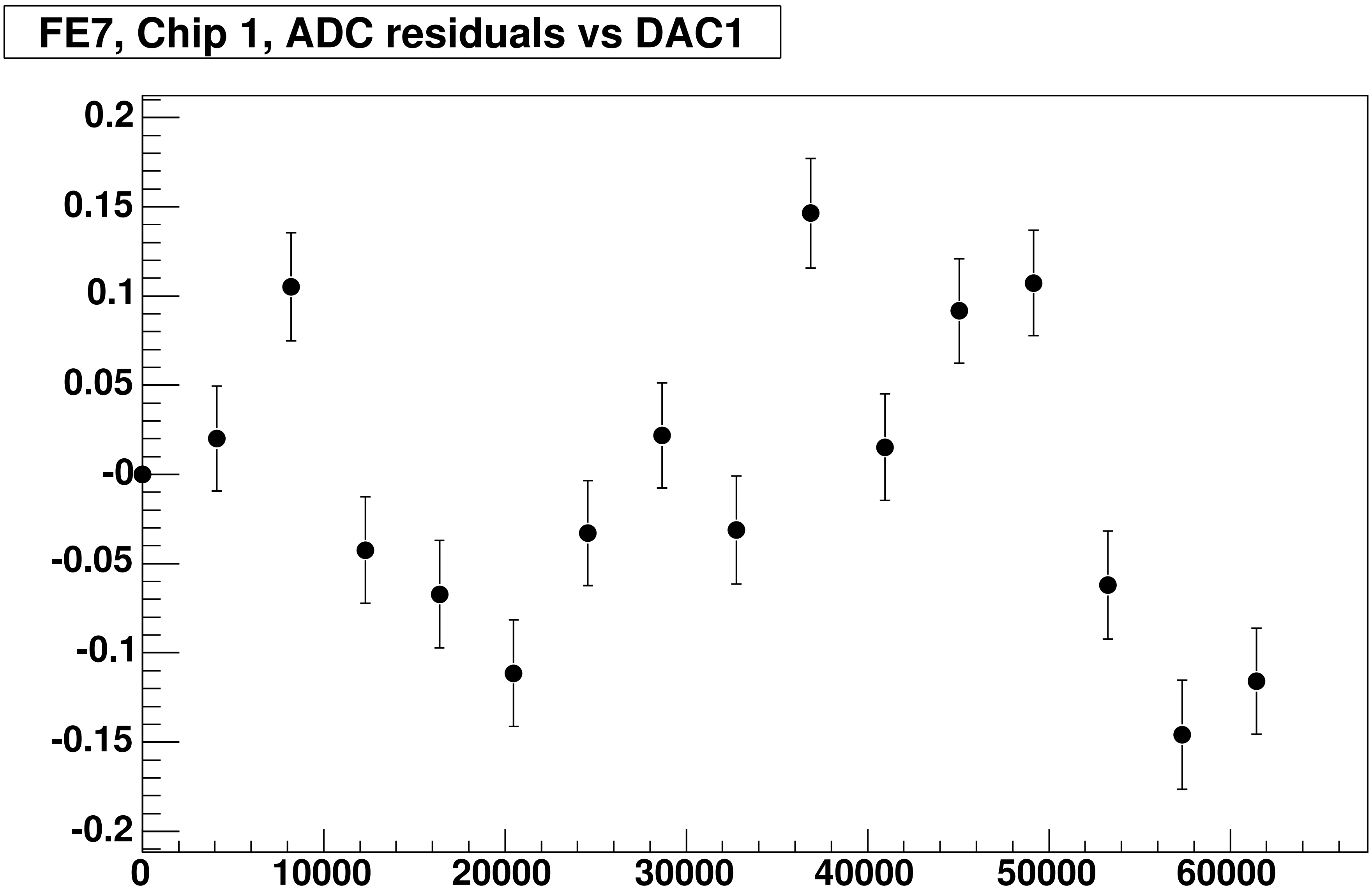

FE7, Chip 1, ADC mean vs DAC0
χ^2 / ndf 8126 / 11
p0 -70.52 ± 0.02075
p1 0.4506 ± 6.704e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

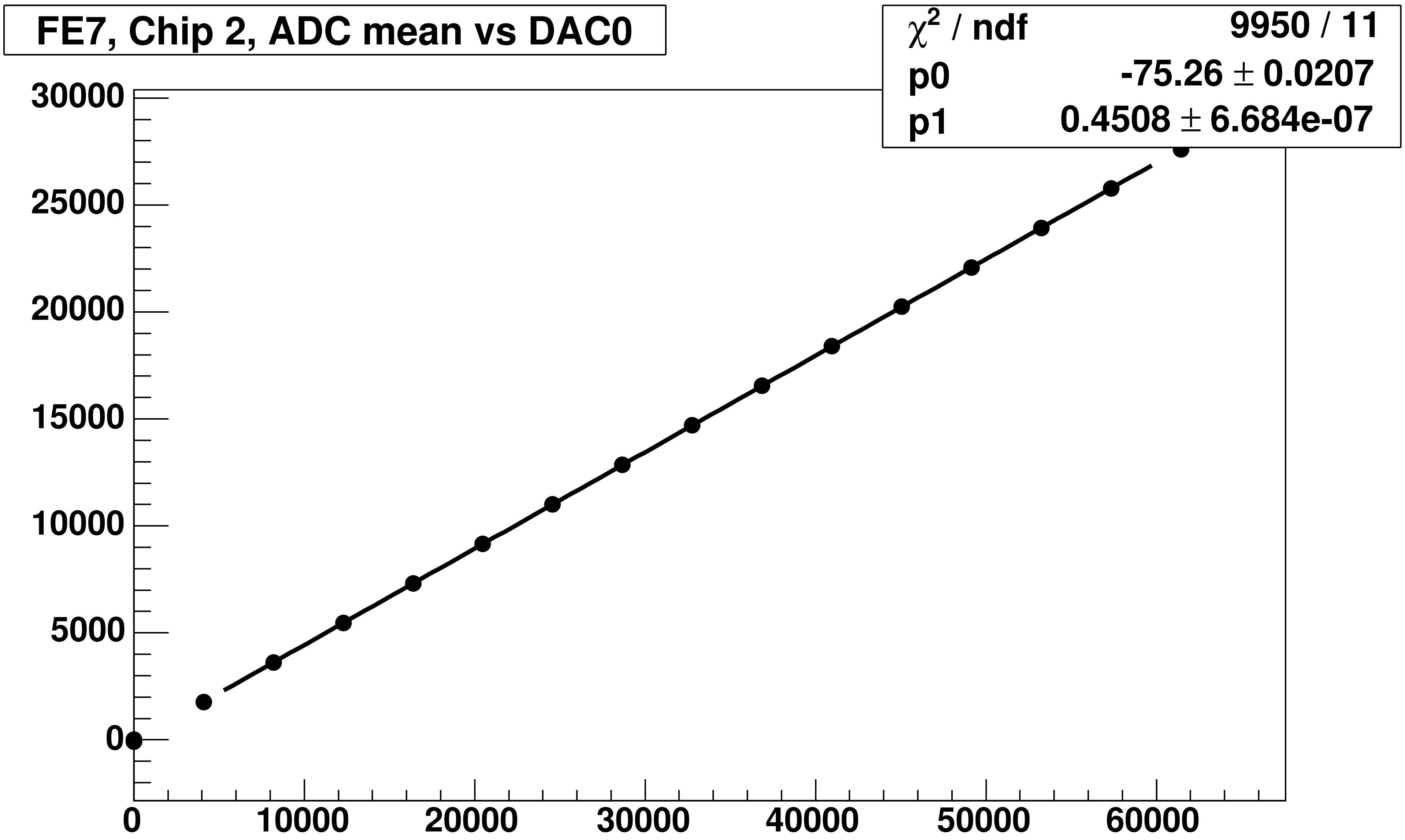

FE7, Chip 1, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 1, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

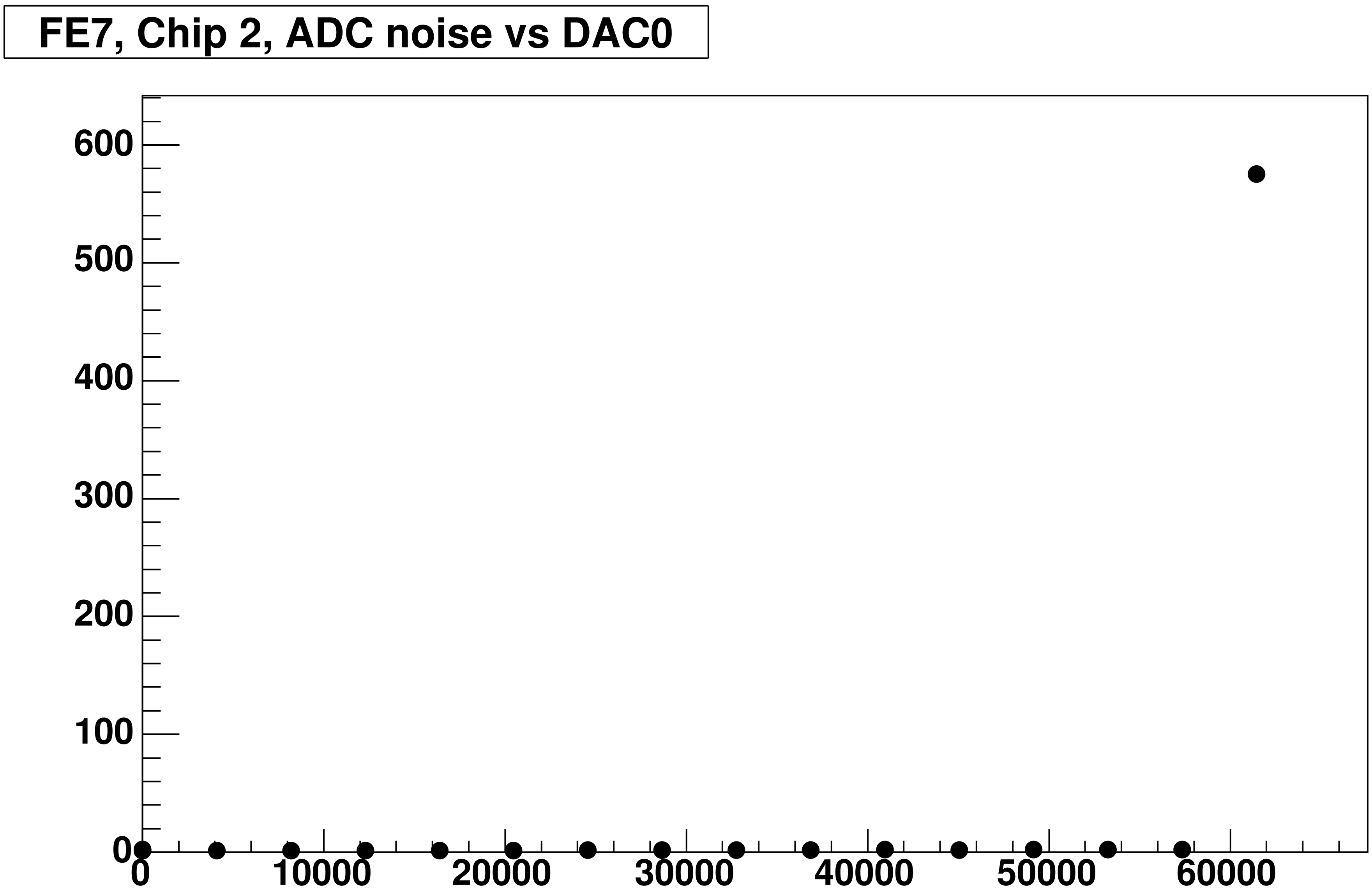

FE7, Chip 1, ADC mean vs DAC1
χ2 / ndf 108.9 / 11
p0 -69.19 ± 0.01968
p1 -1.035e-07 ± 5.445e-07
10
0
-10
-20
-30
-40
-50
-60
-70
0
10000
20000
30000
40000
50000
60000

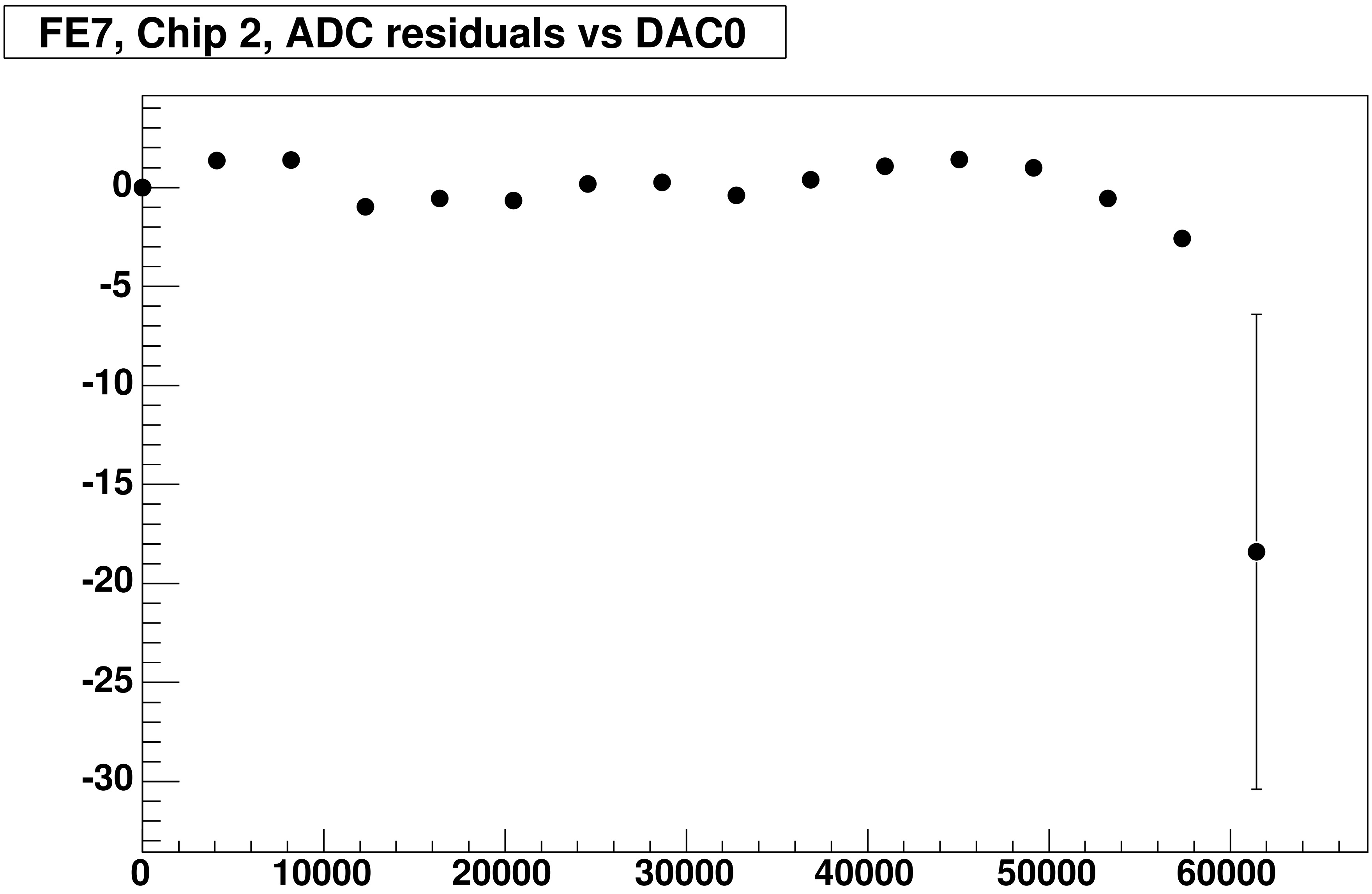

FE7, Chip 1, ADC noise vs DAC1
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

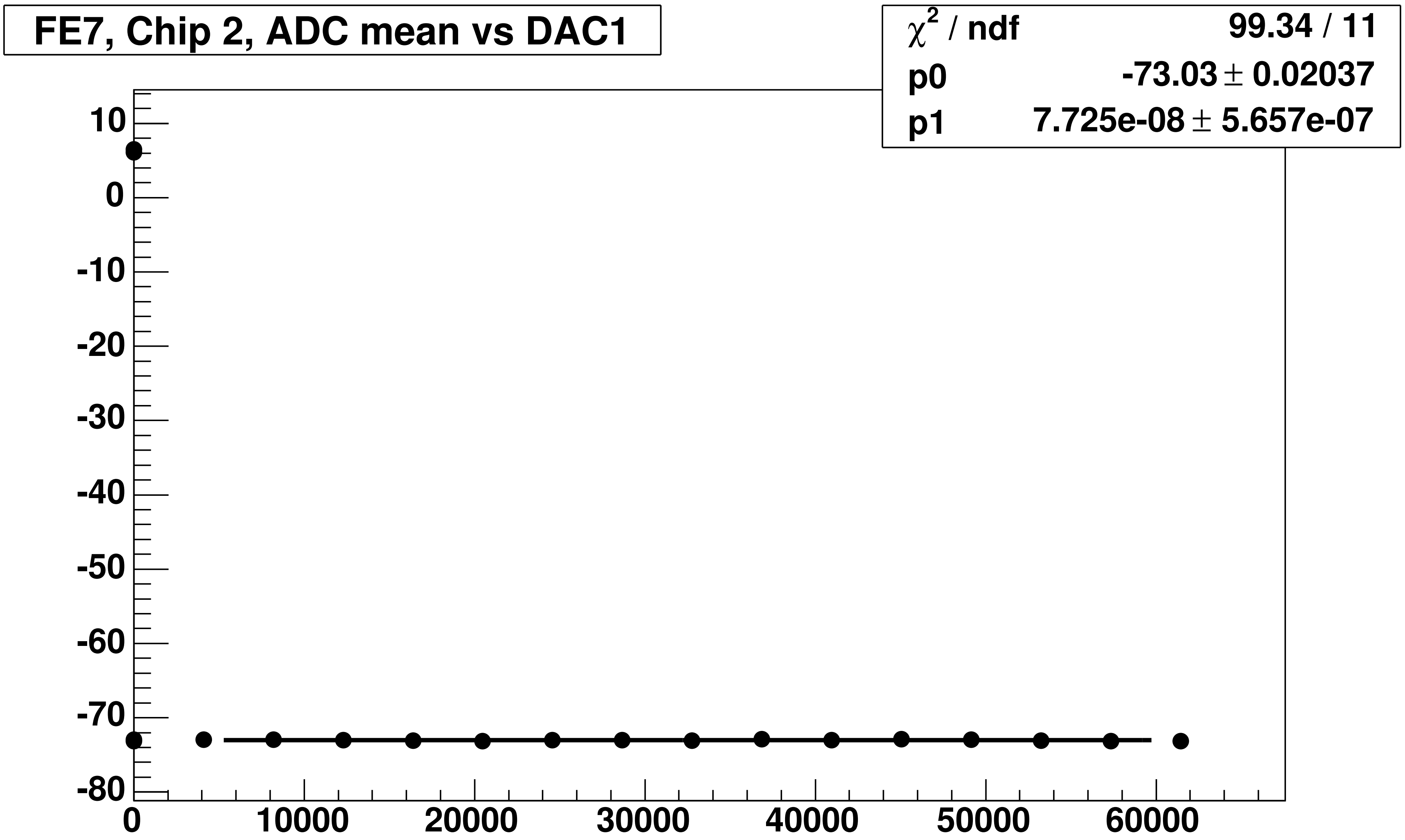

FE7, Chip 1, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



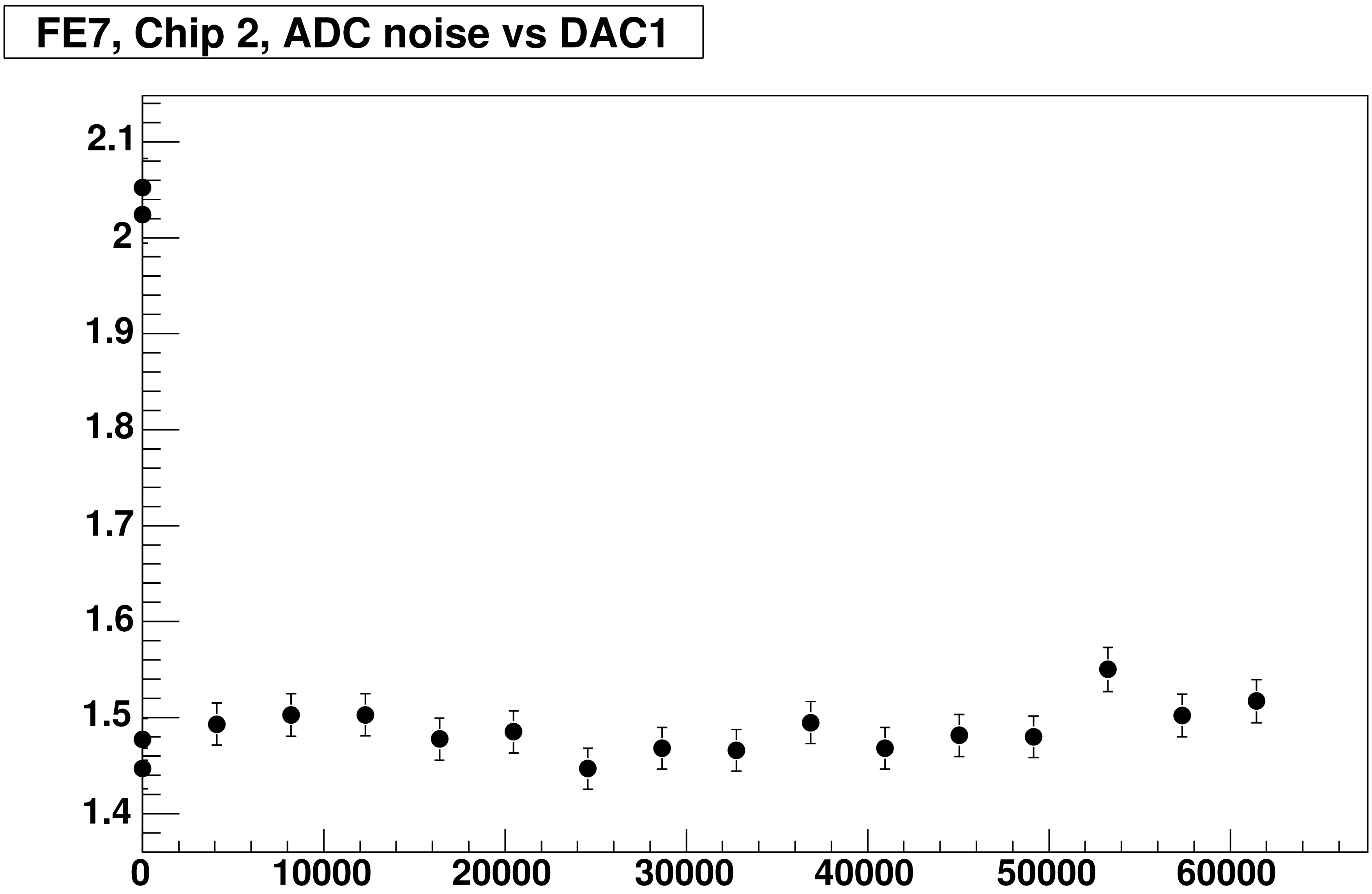
FE7, Chip 2, ADC mean vs DAC0
χ^2 / ndf 9950 / 11
p0 -75.26 ± 0.0207
p1 0.4508 ± 6.684e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

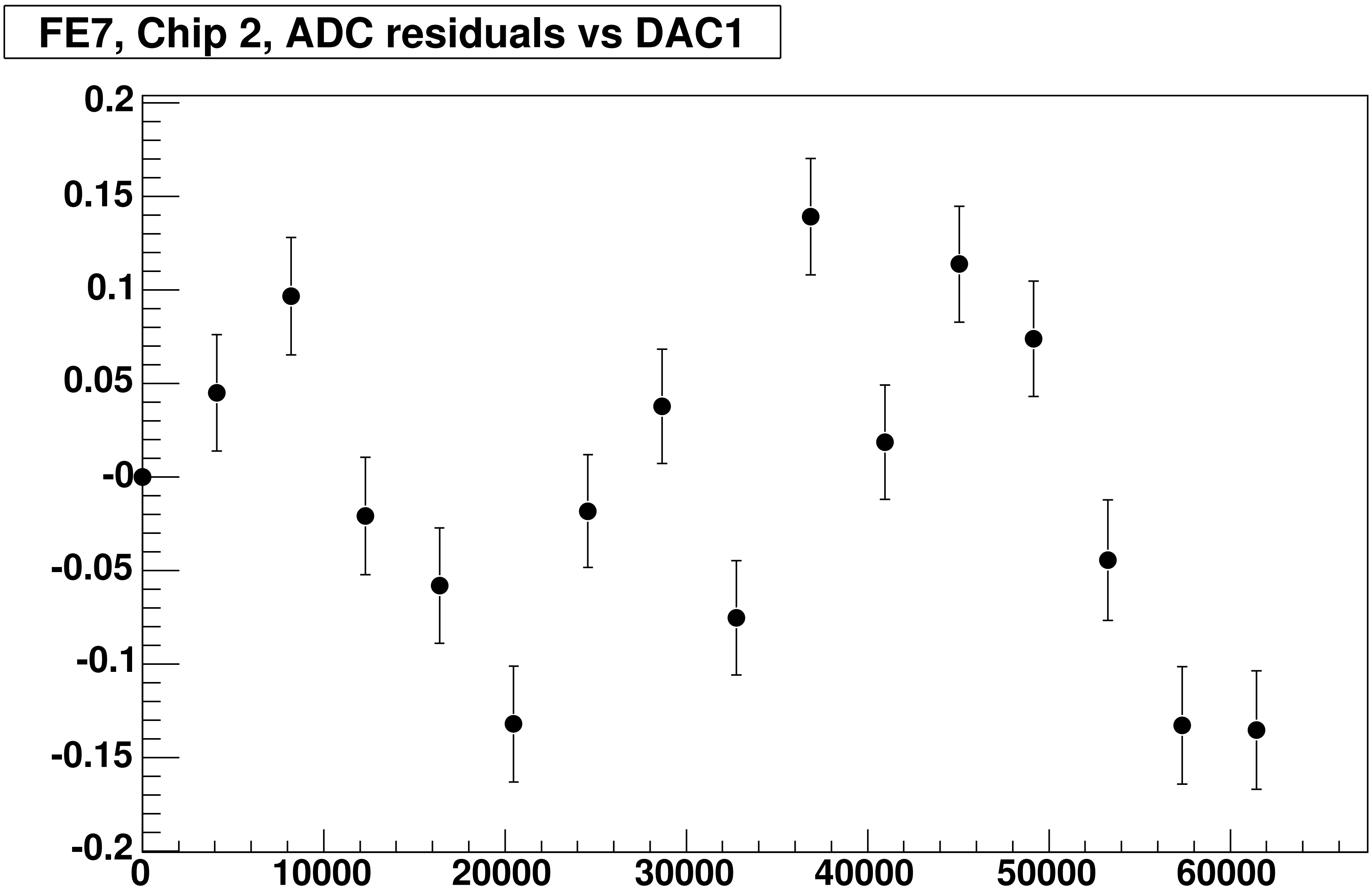

FE7, Chip 2, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

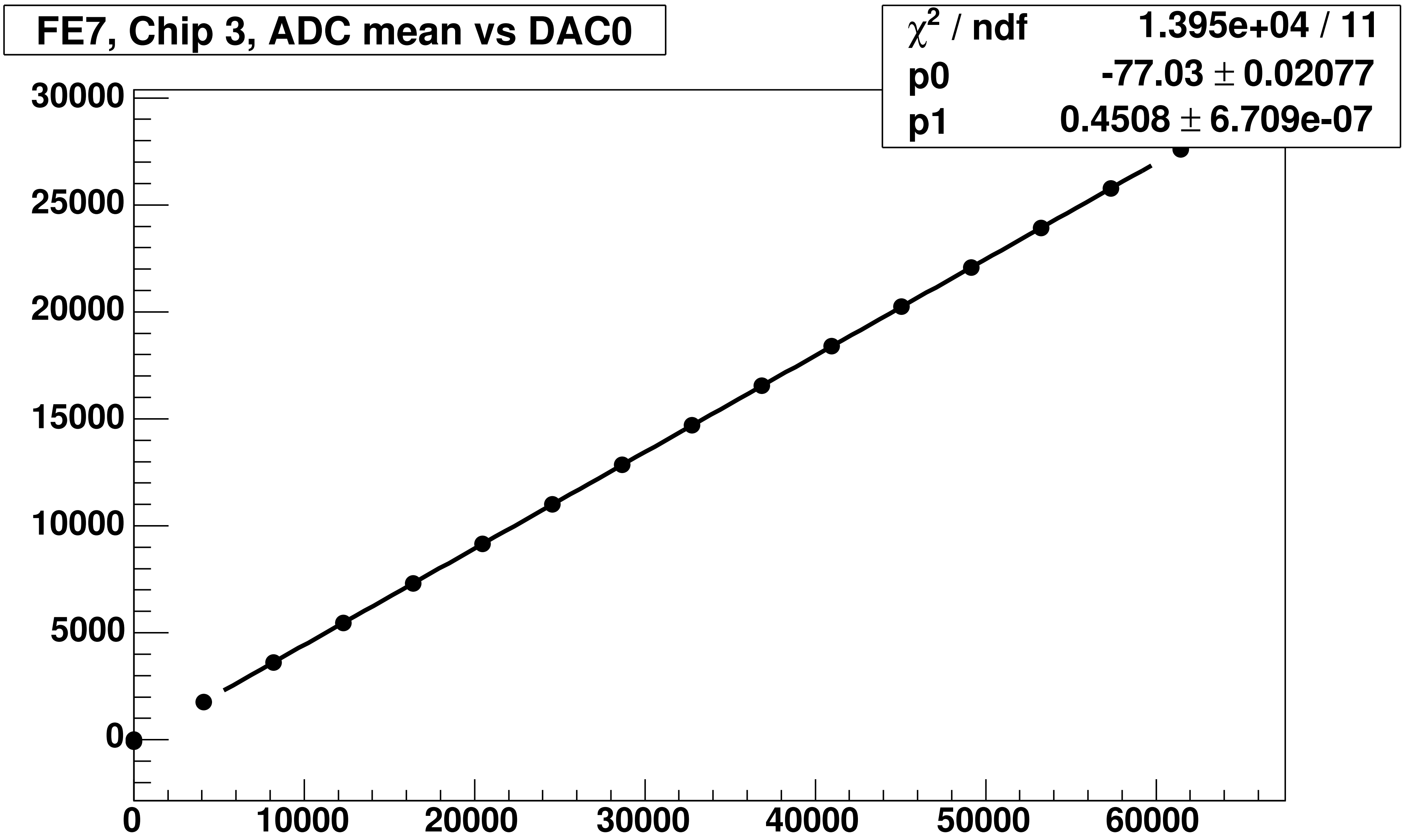

FE7, Chip 2, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

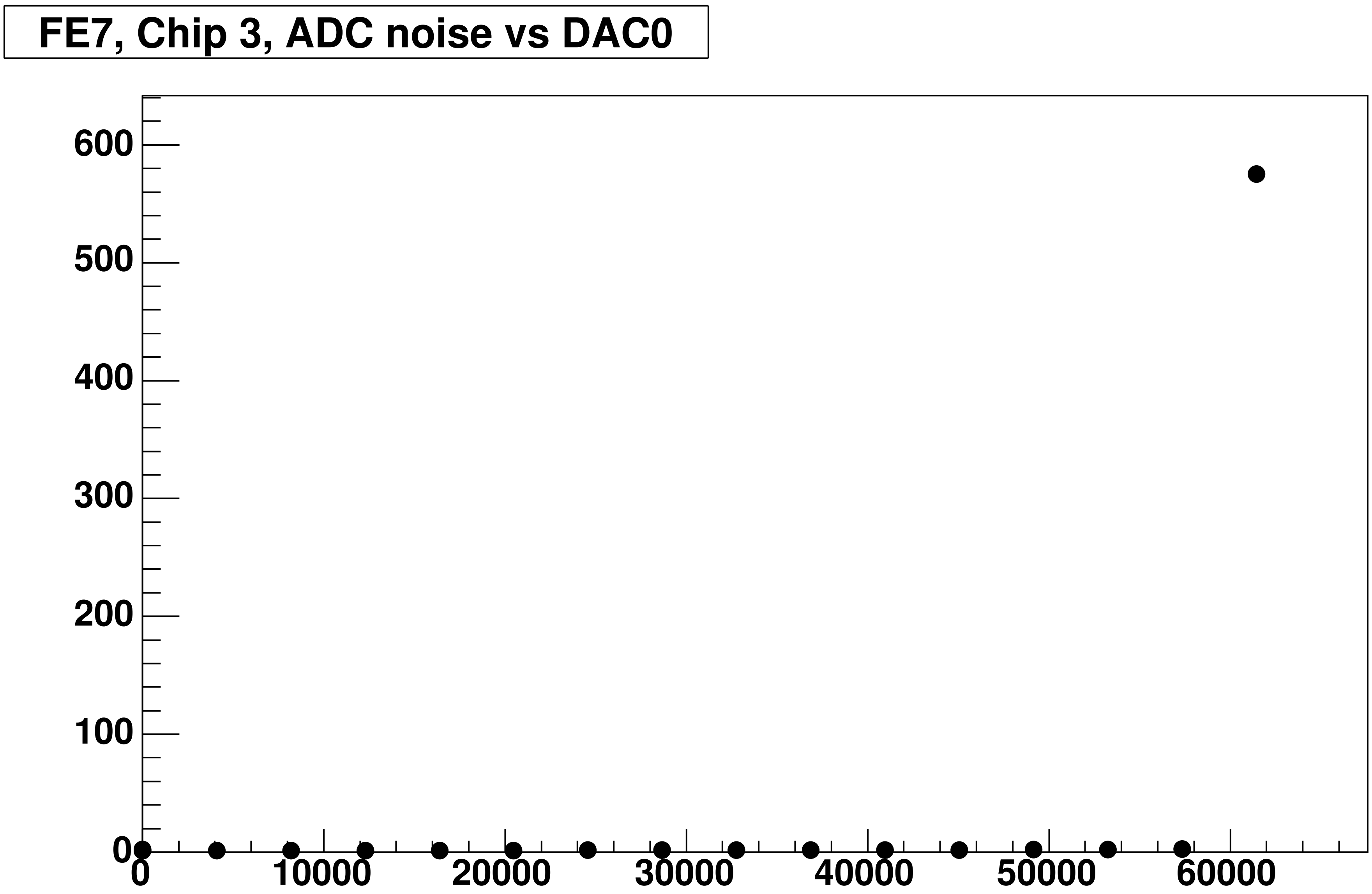


FE7, Chip 2, ADC mean vs DAC1
χ2 / ndf 99.34 / 11
p0 -73.03 ± 0.02037
p1 7.725e-08 ± 5.657e-07
10
0
-10
-20
-30
-40
-50
-60
-70
-80
0
10000
20000
30000
40000
50000
60000

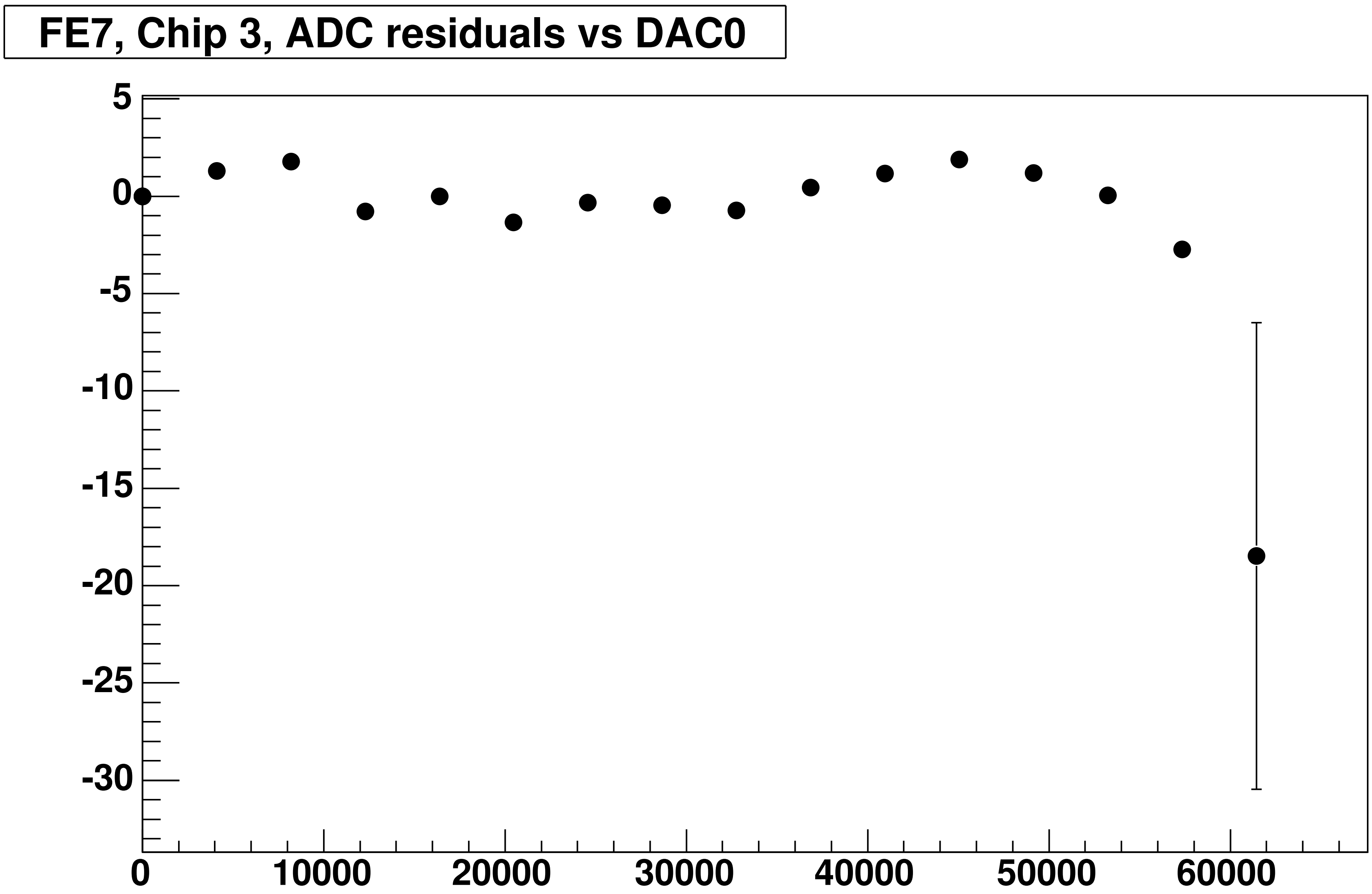

FE7, Chip 2, ADC noise vs DAC1
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

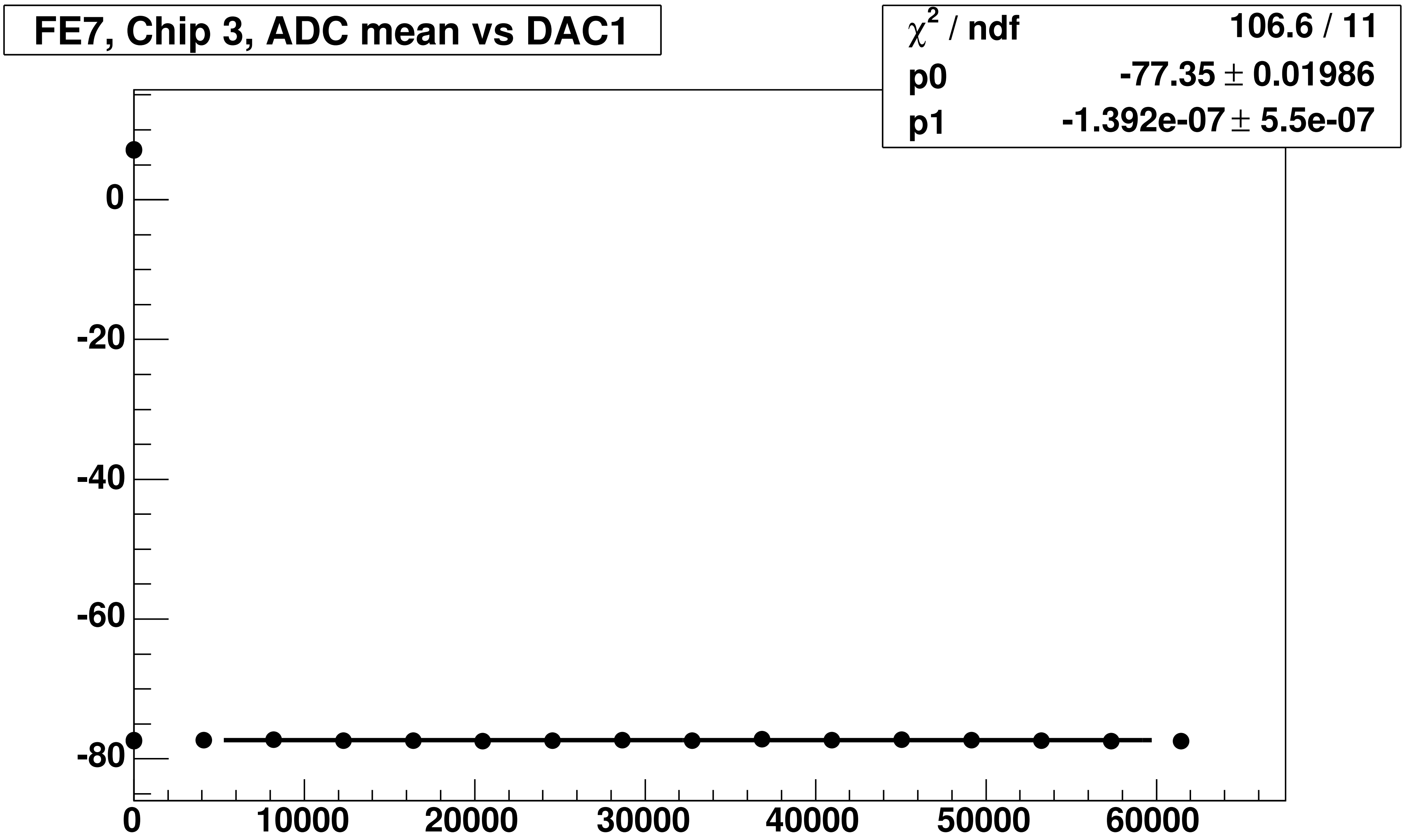

FE7, Chip 2, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1.395e+04 / 11
p0 -77.03 ± 0.02077
p1 0.4508 ± 6.709e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

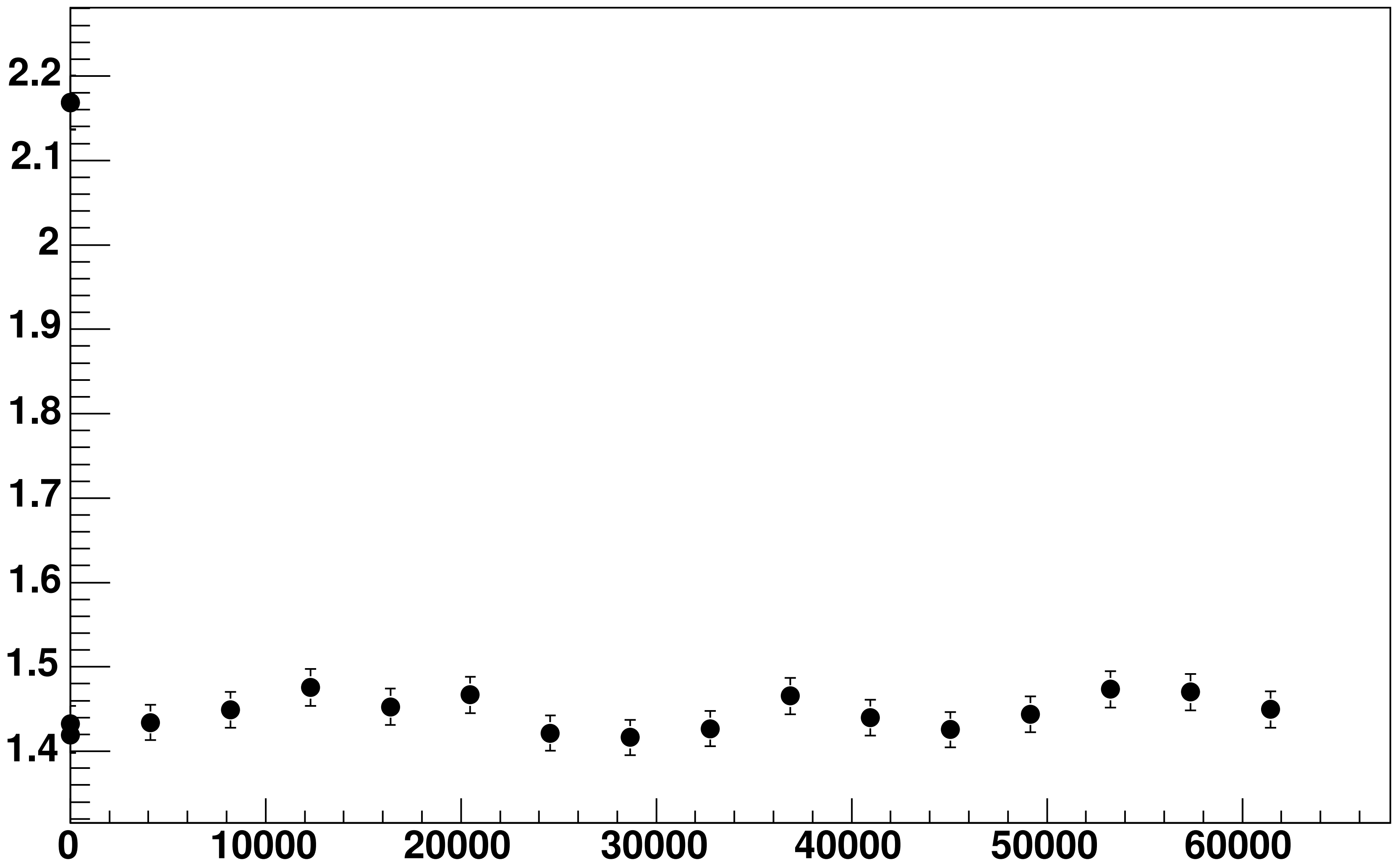


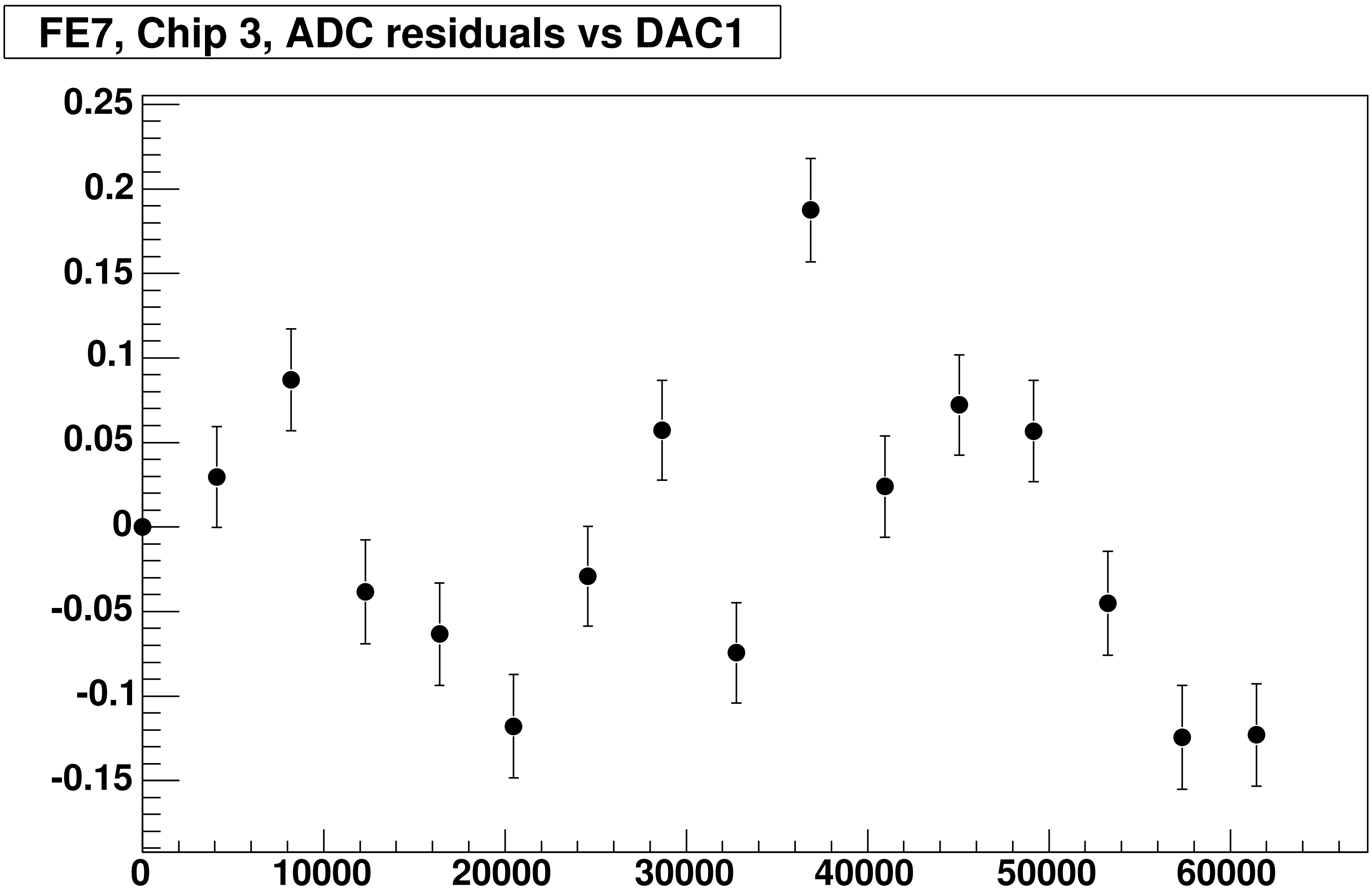
FE7, Chip 3, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 3, ADC residuals vs DAC0
5
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

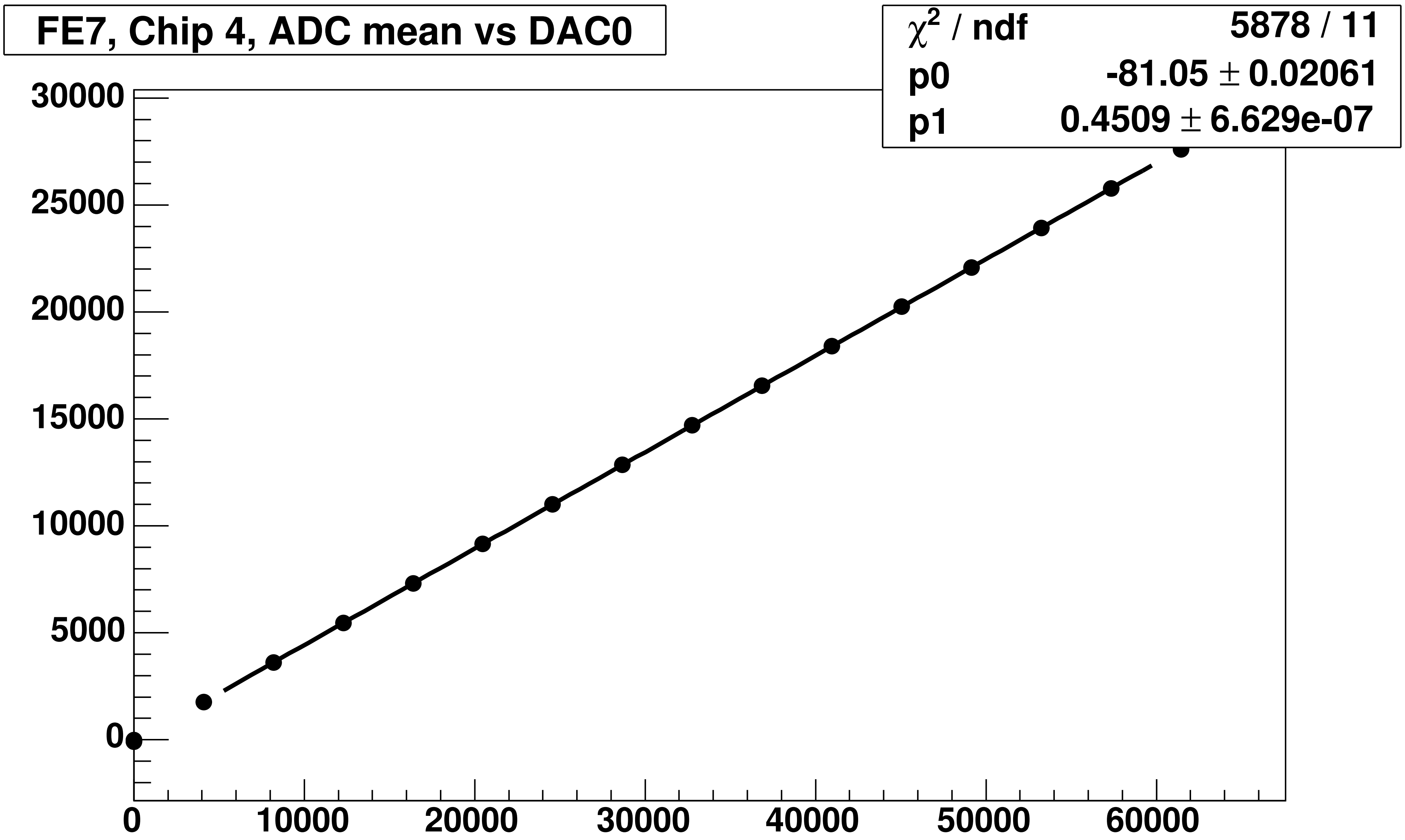

FE7, Chip 3, ADC mean vs DAC1
χ^2 / ndf 106.6 / 11
p0 -77.35 ± 0.01986
p1 -1.392e-07 ± 5.5e-07
0
-20
-40
-60
-80
0
10000
20000
30000
40000
50000
60000

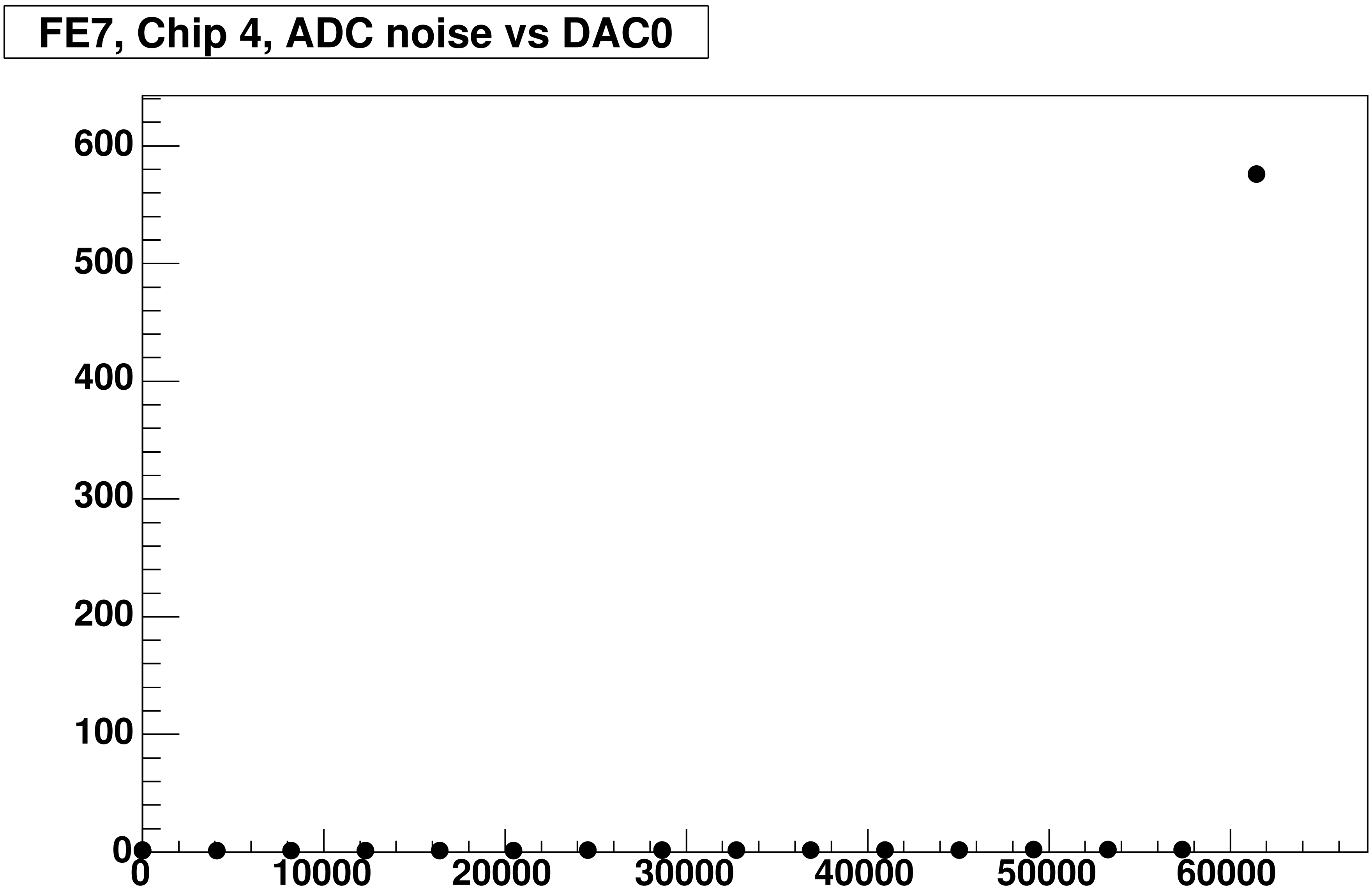
FE7, Chip 3, ADC noise vs DAC1



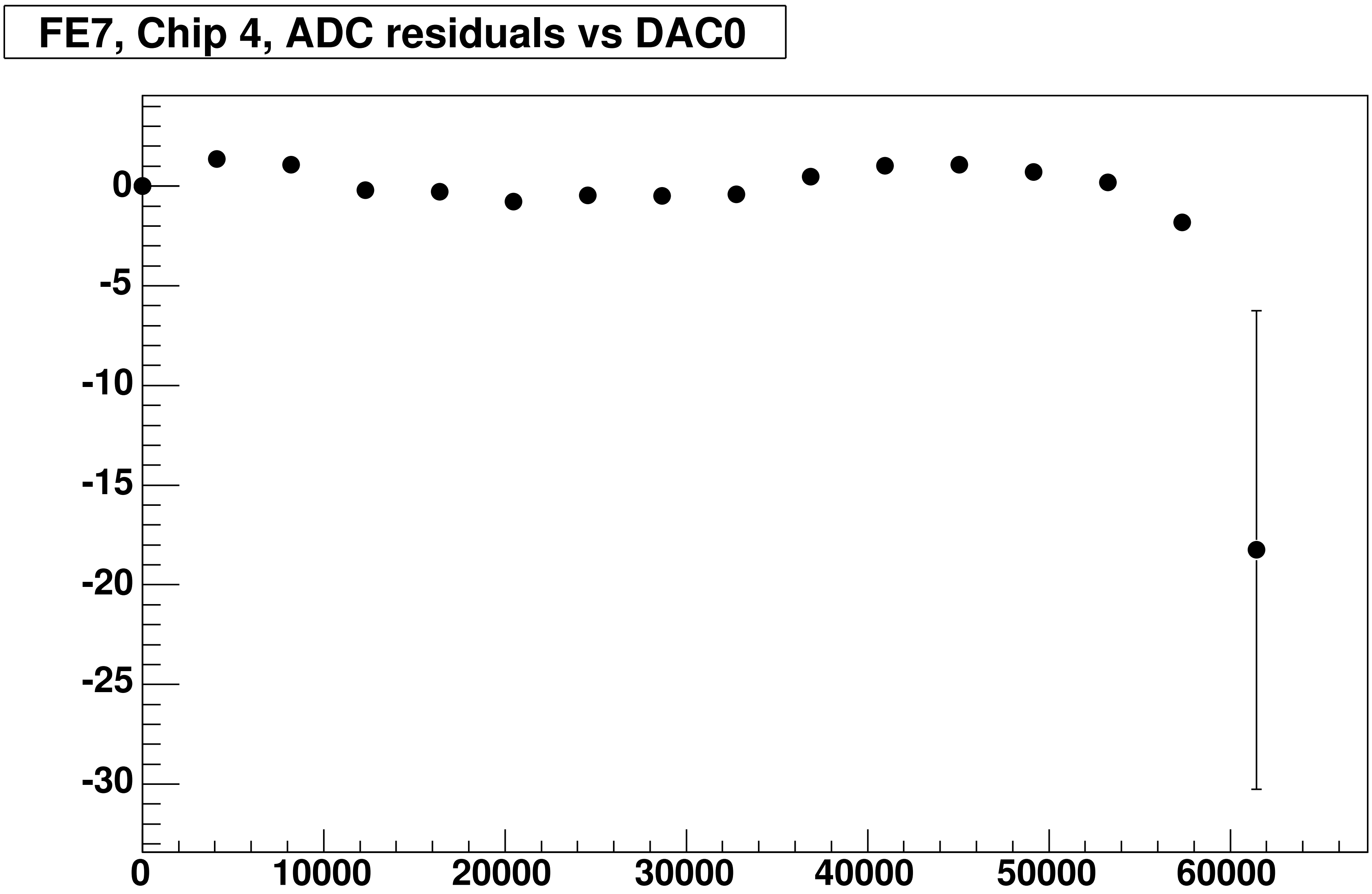


FE7, Chip 3, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

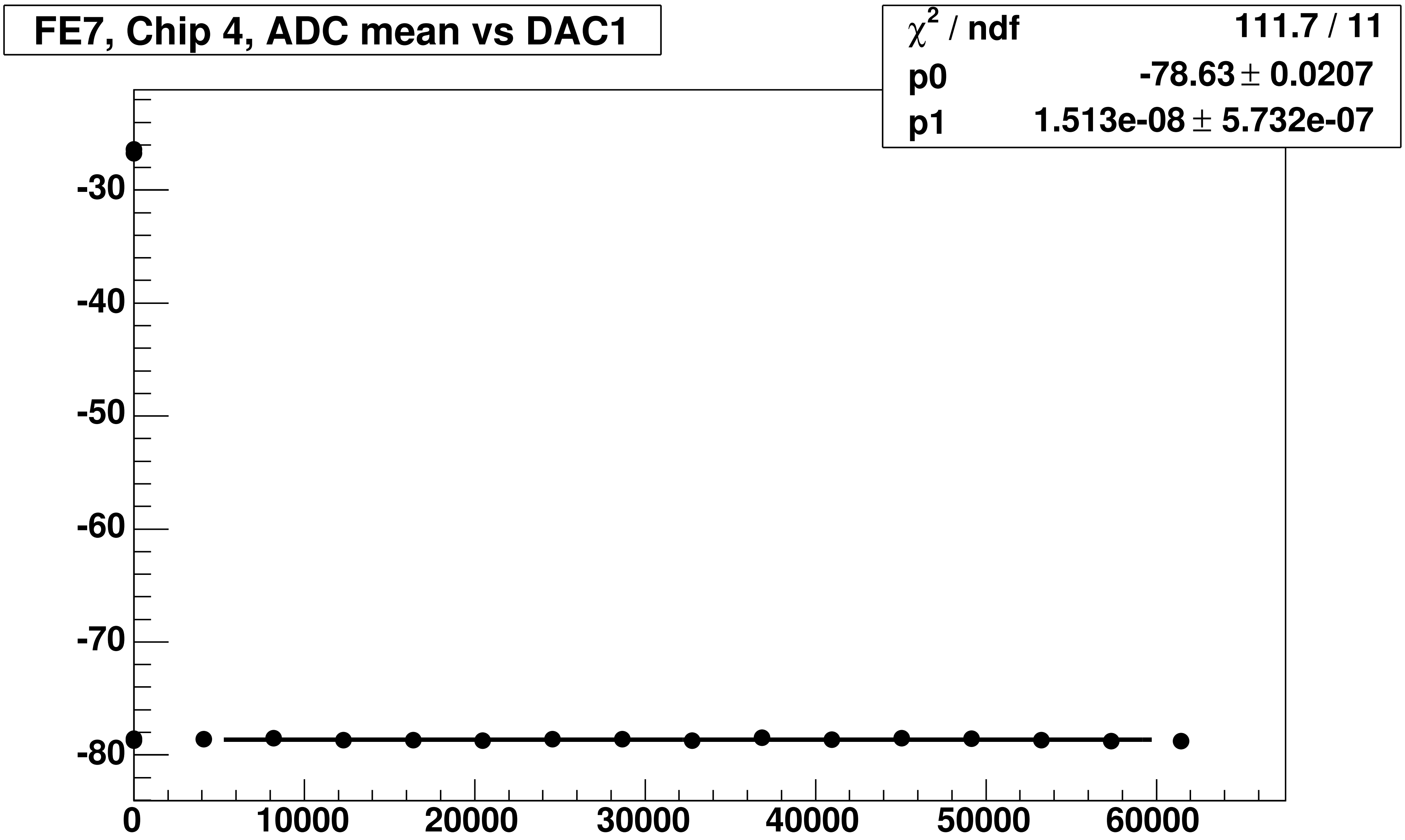

FE7, Chip 4, ADC mean vs DAC0
χ^2 / ndf 5878 / 11
p0 -81.05 ± 0.02061
p1 0.4509 ± 6.629e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

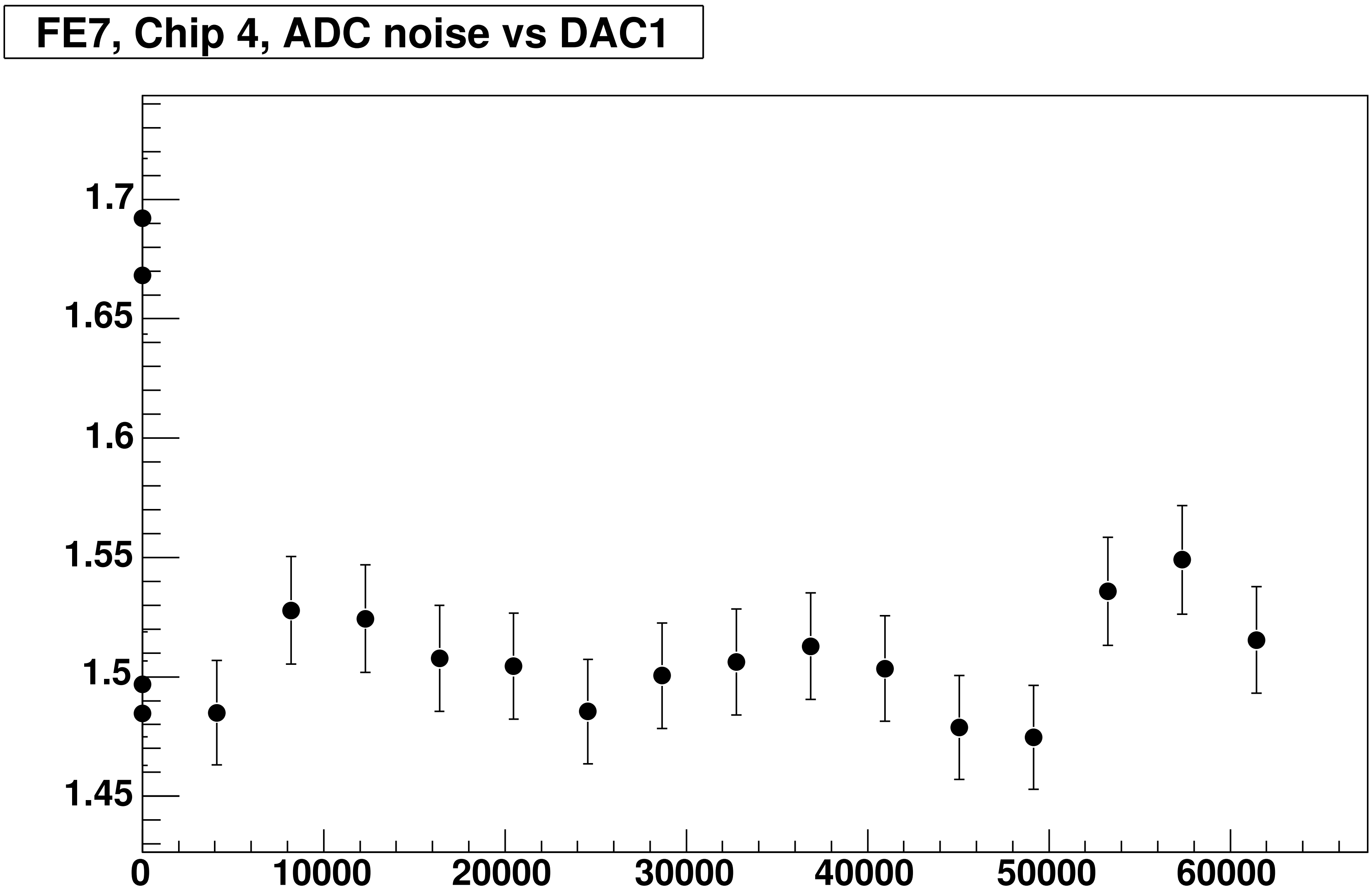


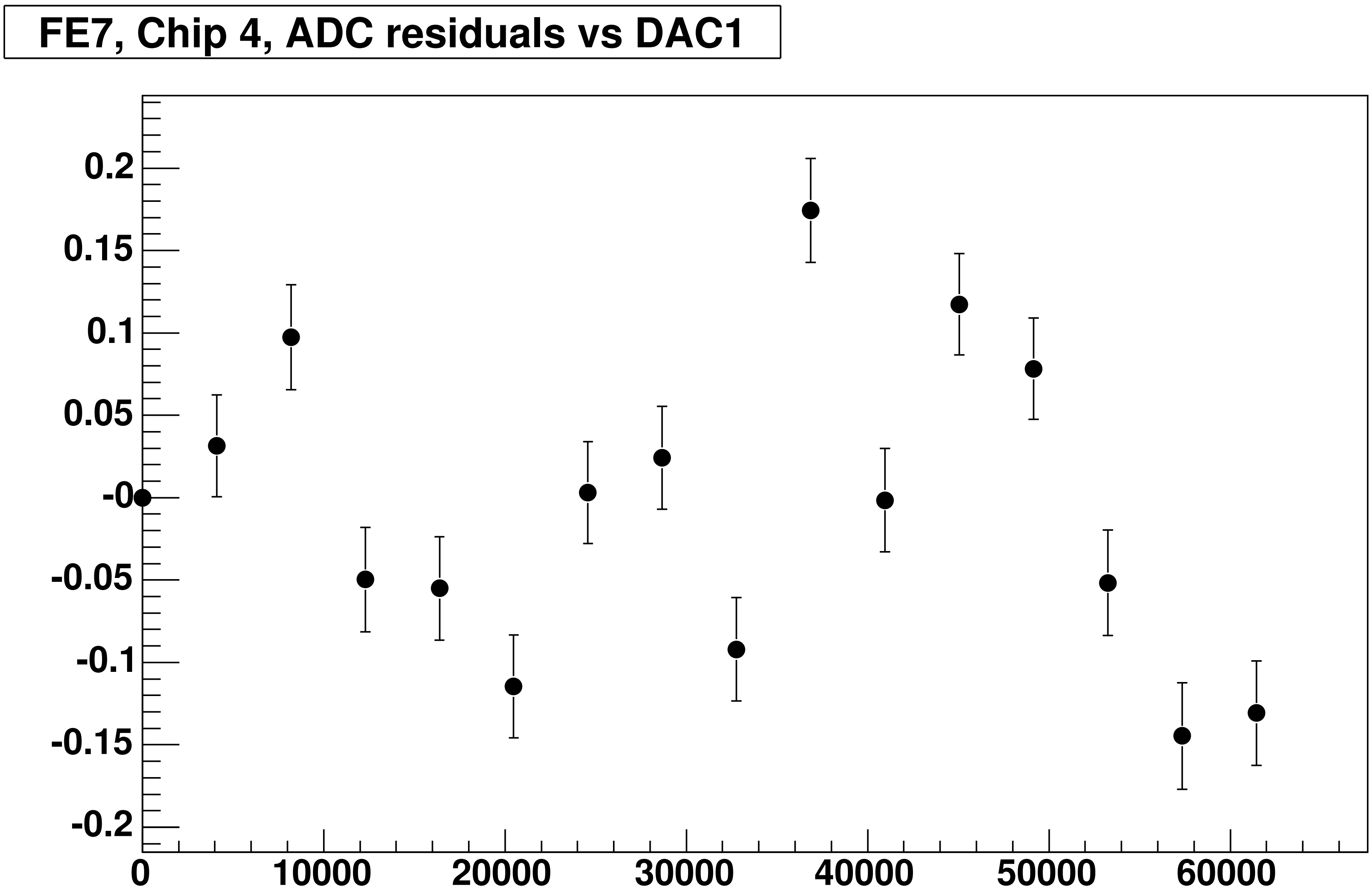
FE7, Chip 4, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000

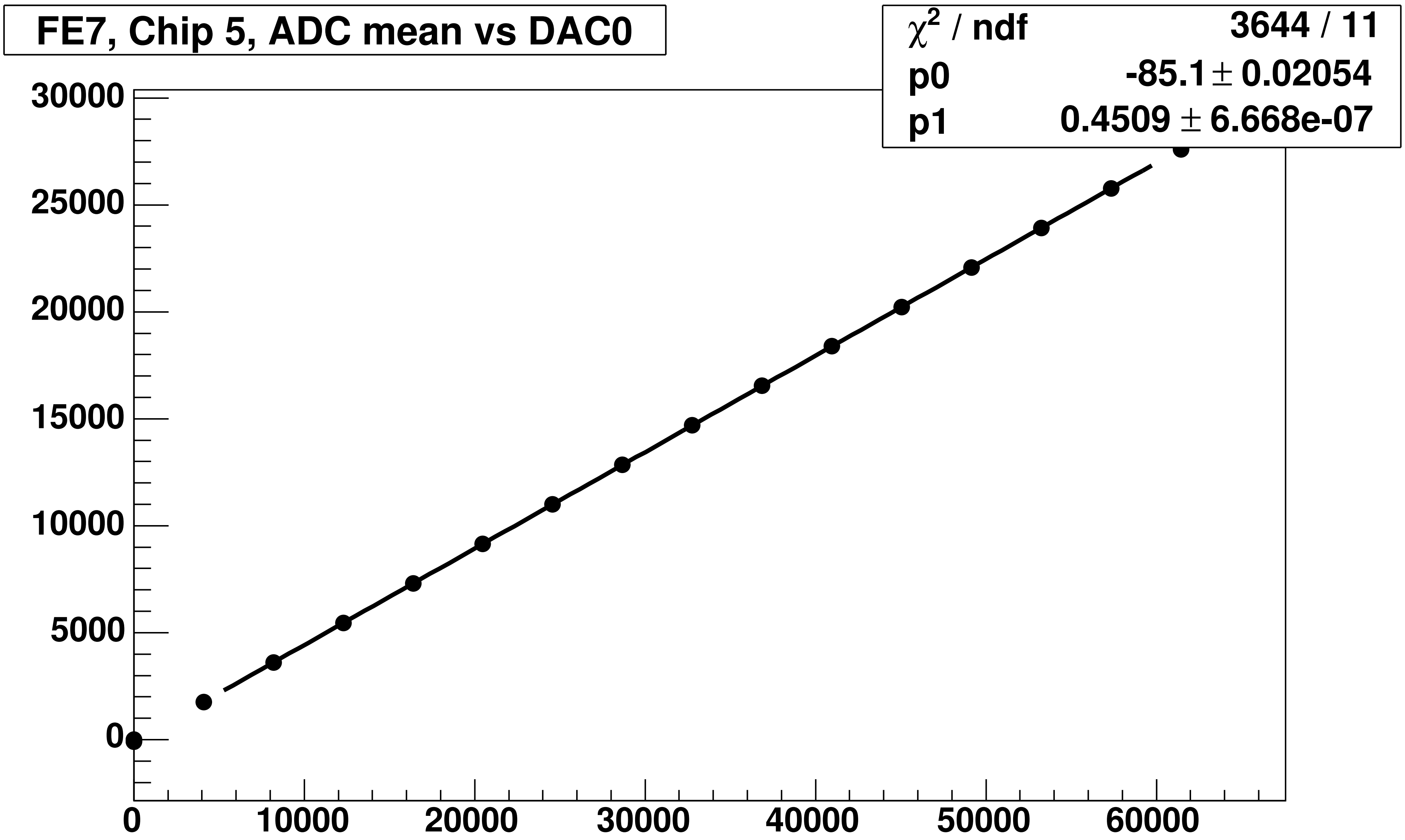


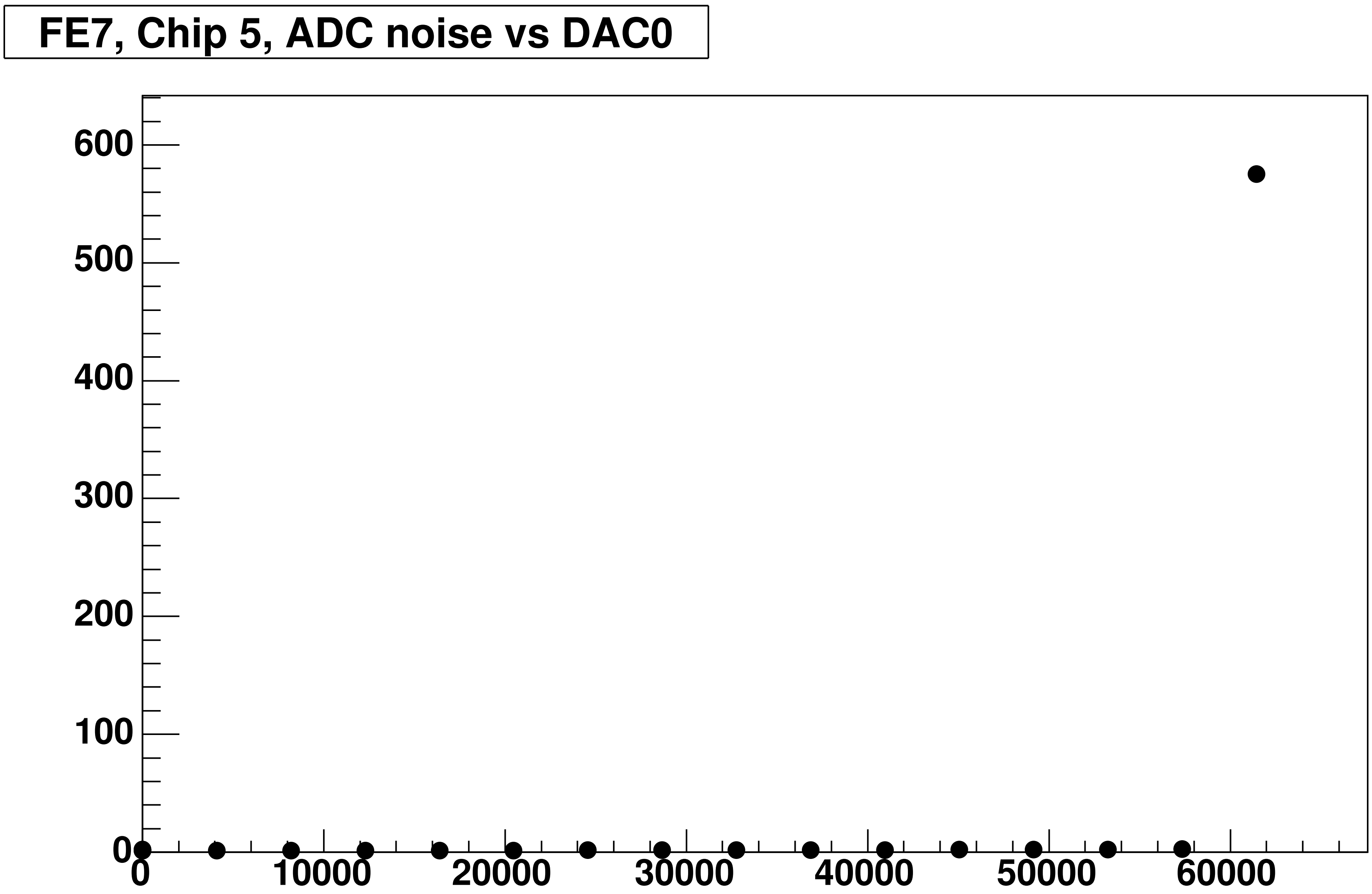
FE7, Chip 4, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

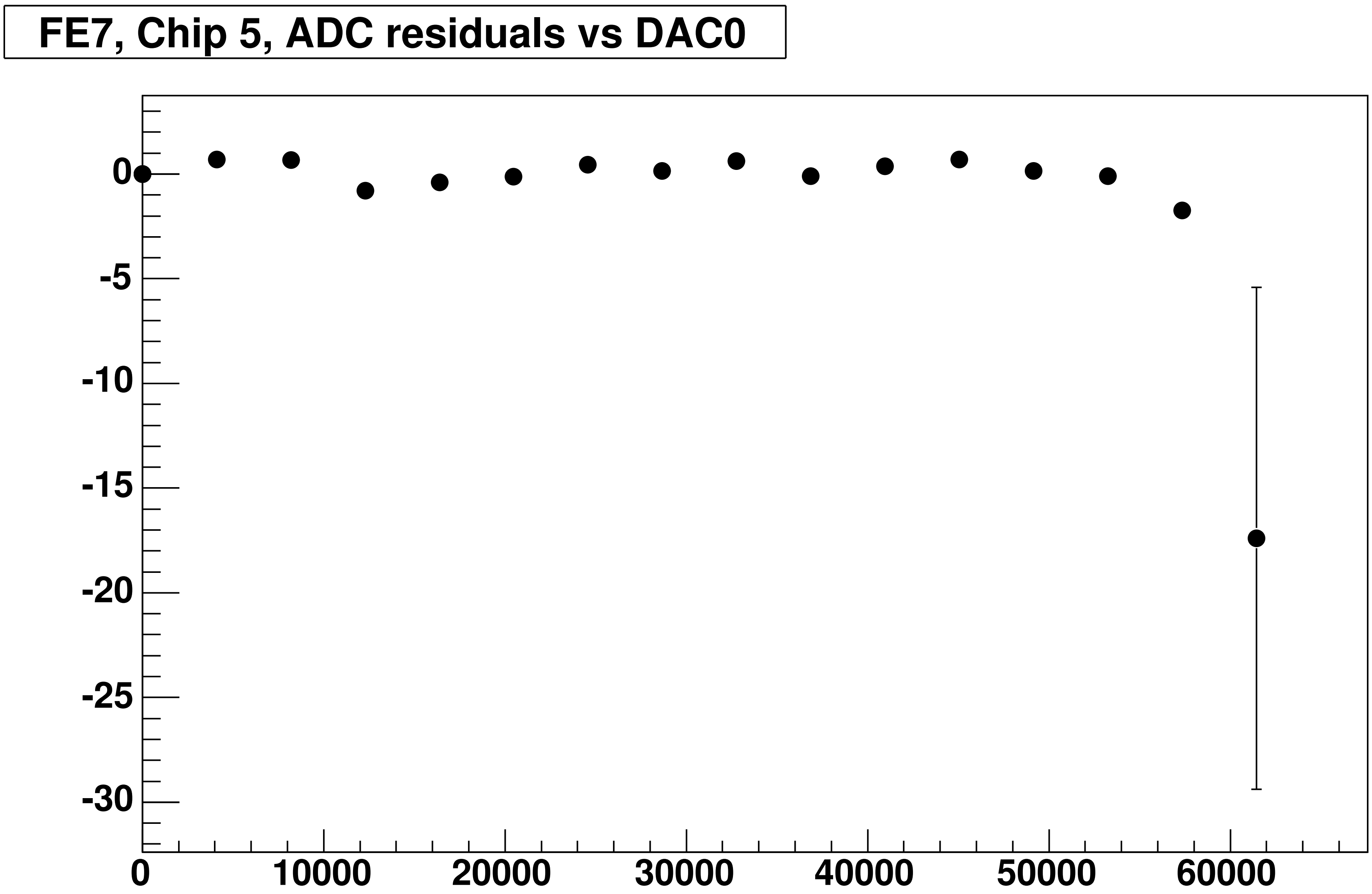

FE7, Chip 4, ADC mean vs DAC1
χ^2 / ndf 111.7 / 11
p0 -78.63 ± 0.0207
p1 1.513e-08 ± 5.732e-07
-30
-40
-50
-60
-70
-80
0
10000
20000
30000
40000
50000
60000


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

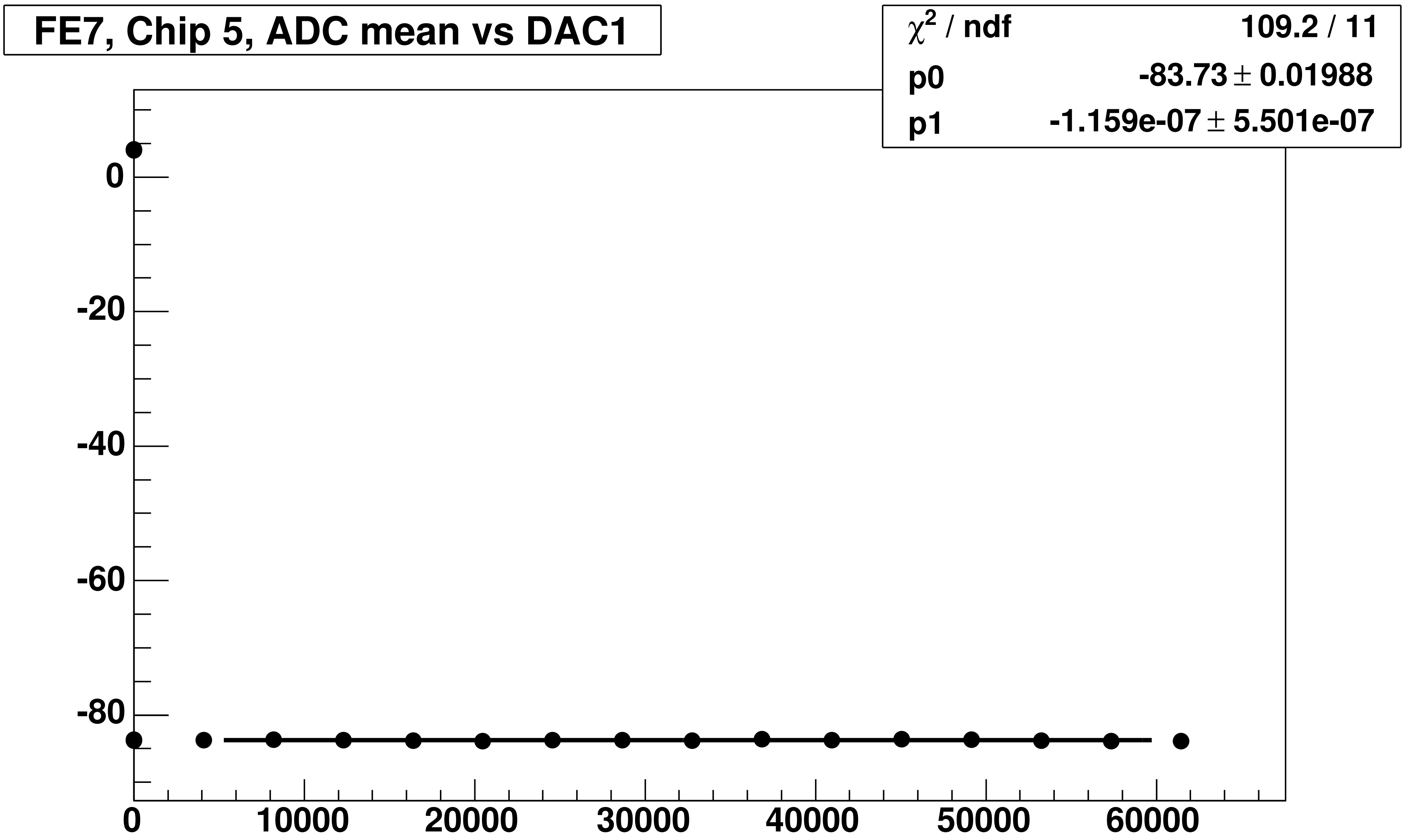

FE7, Chip 4, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 5, ADC mean vs DAC0
χ2 / ndf 3644 / 11
p0 -85.1 ± 0.02054
p1 0.4509 ± 6.668e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

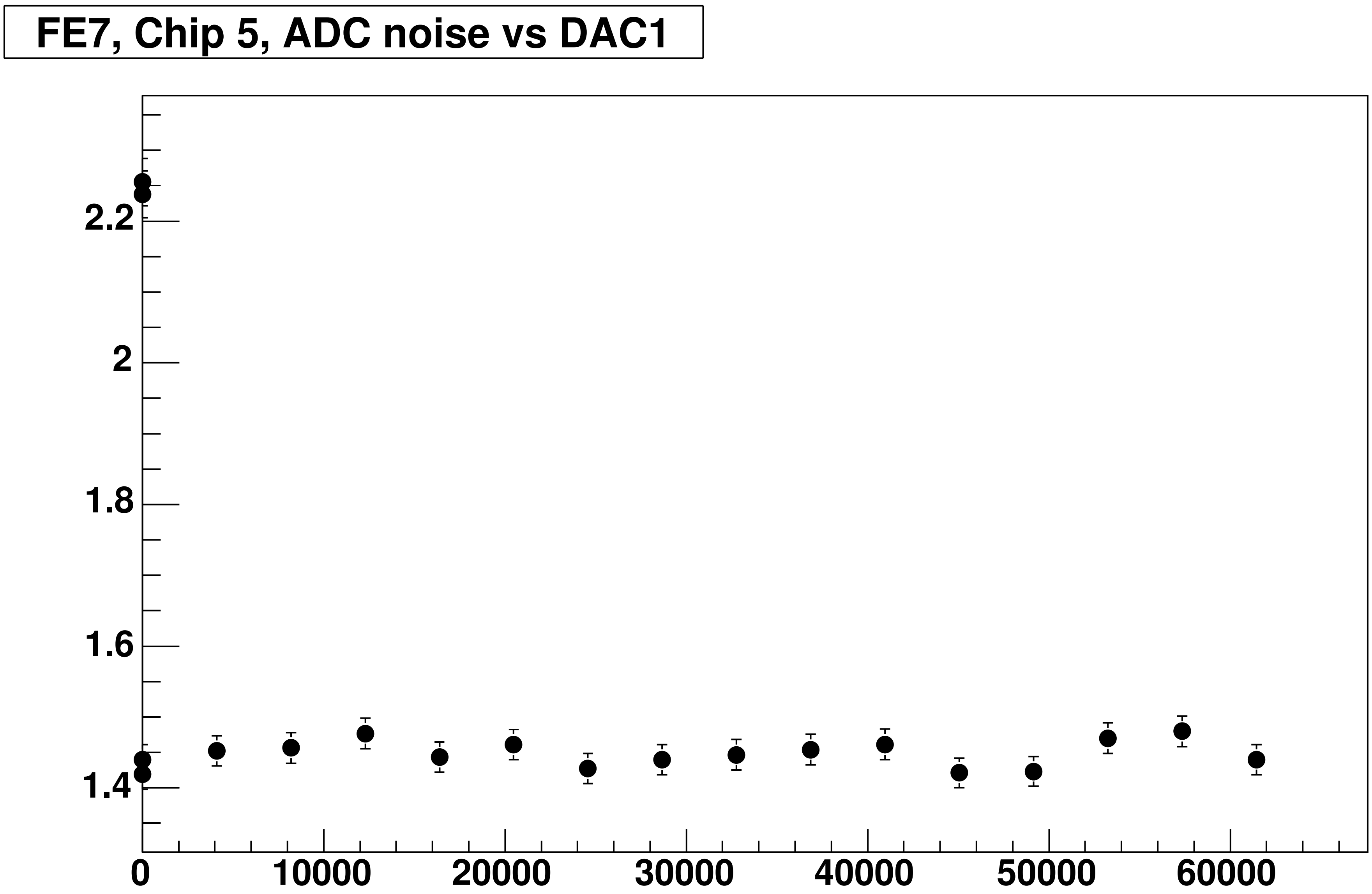

FE7, Chip 5, ADC noise vs DAC0
600
500
400
300
200
100
0
0
10000
20000
30000
40000
50000
60000



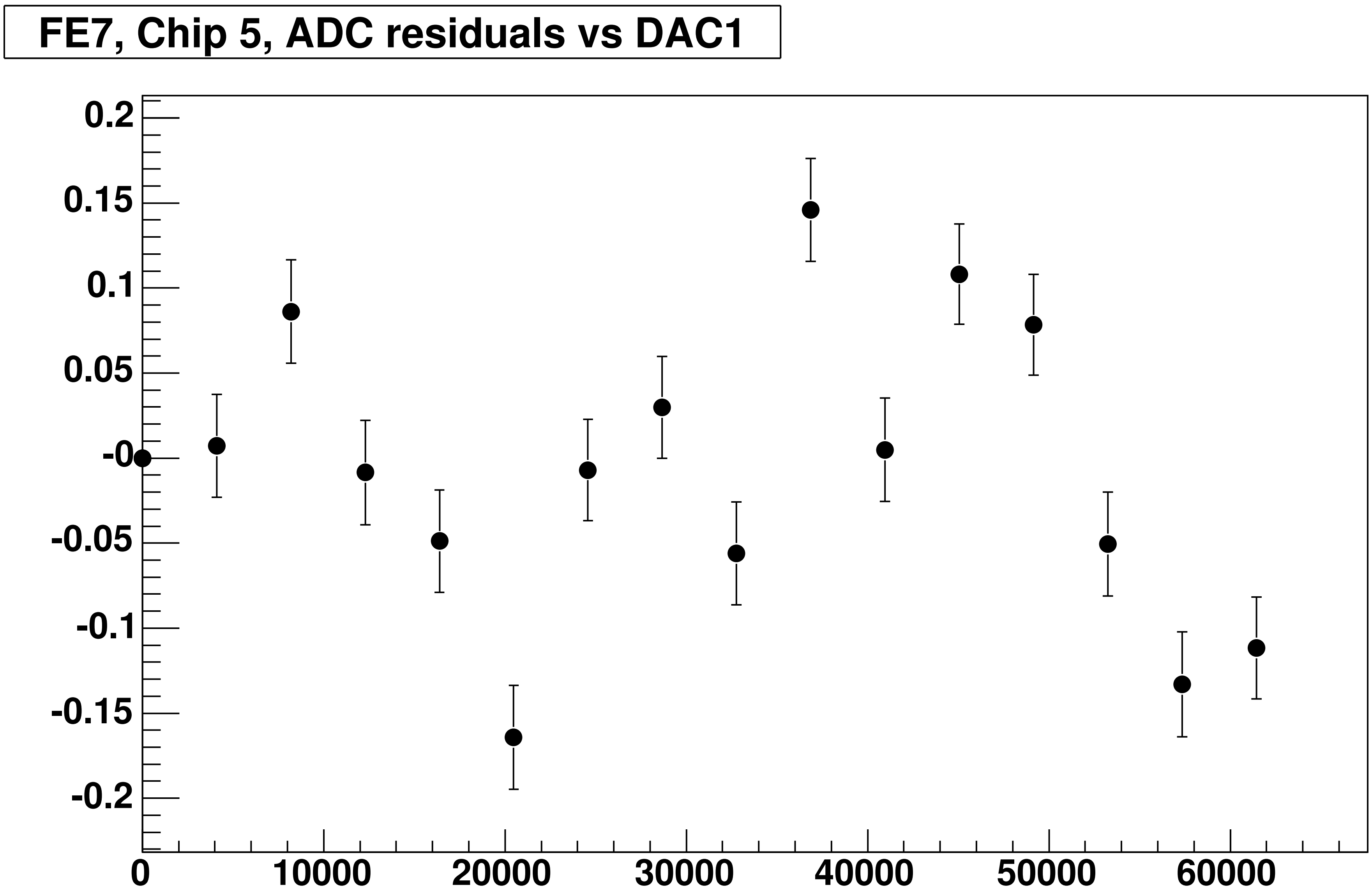
FE7, Chip 5, ADC residuals vs DAC0
0
-5
-10
-15
-20
-25
-30
0
10000
20000
30000
40000
50000
60000

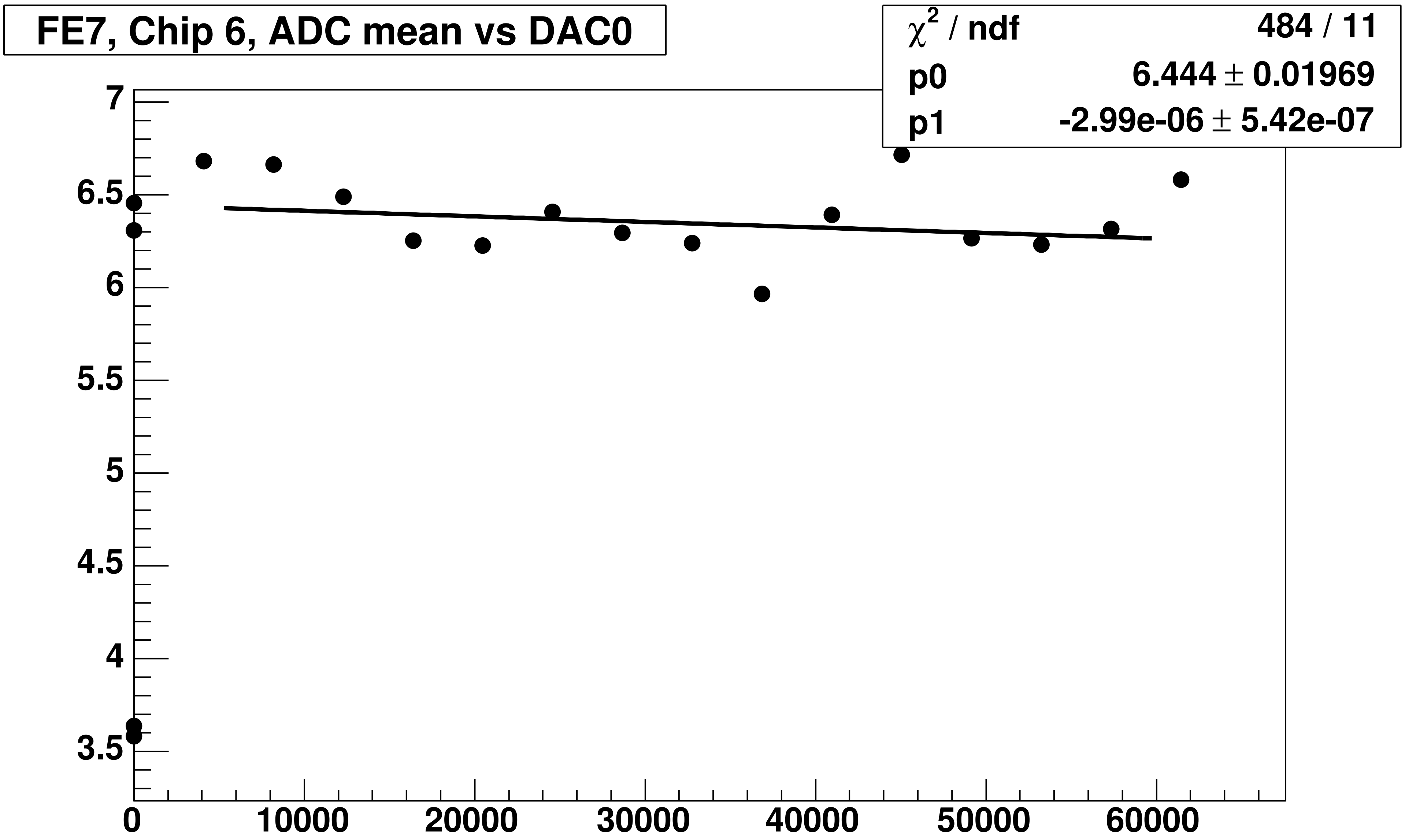


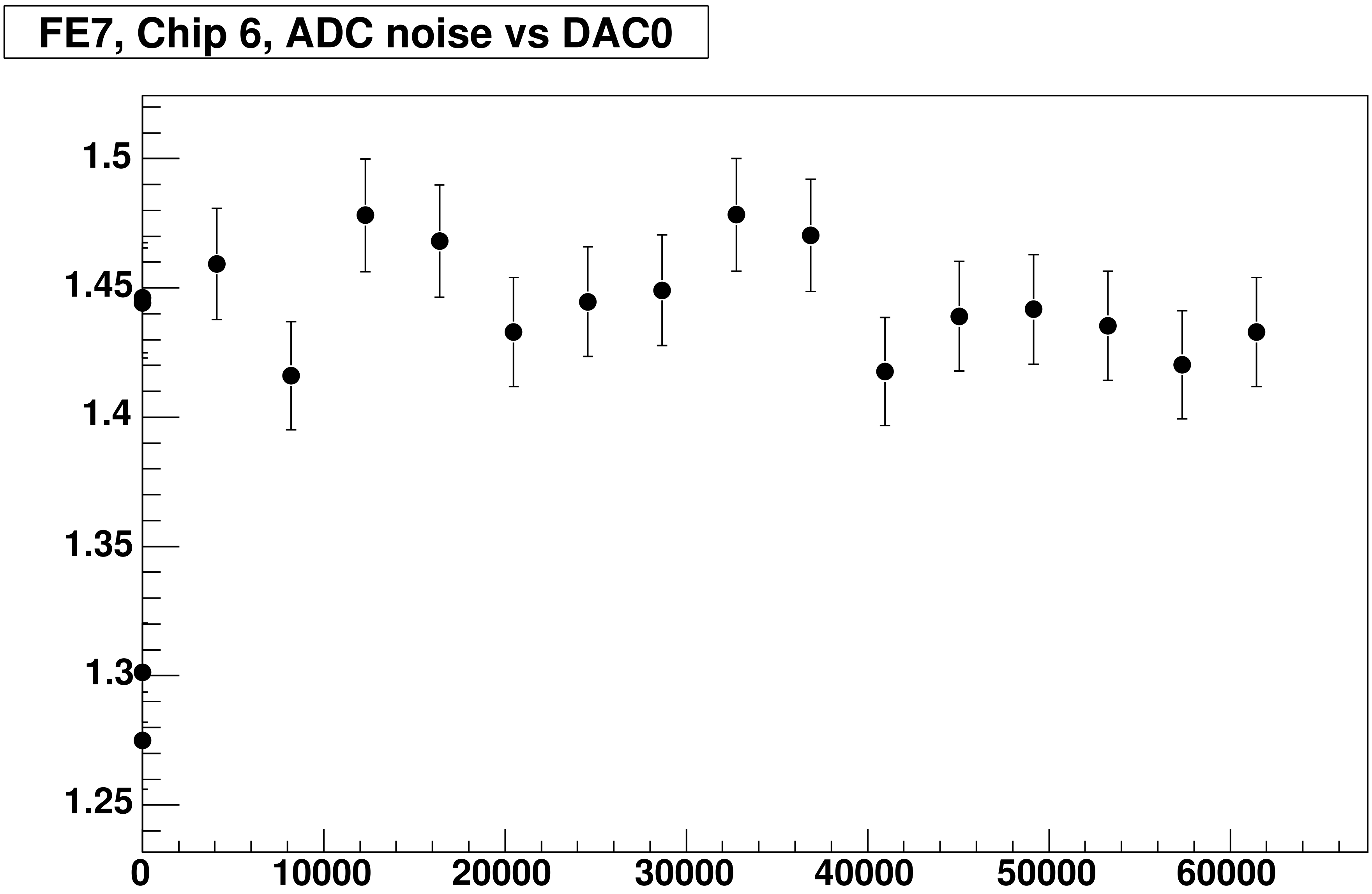
FE7, Chip 5, ADC mean vs DAC1
χ^2 / ndf 109.2 / 11
p0 -83.73 ± 0.01988
p1 -1.159e-07 ± 5.501e-07
0
-20
-40
-60
-80
0
10000
20000
30000
40000
50000
60000



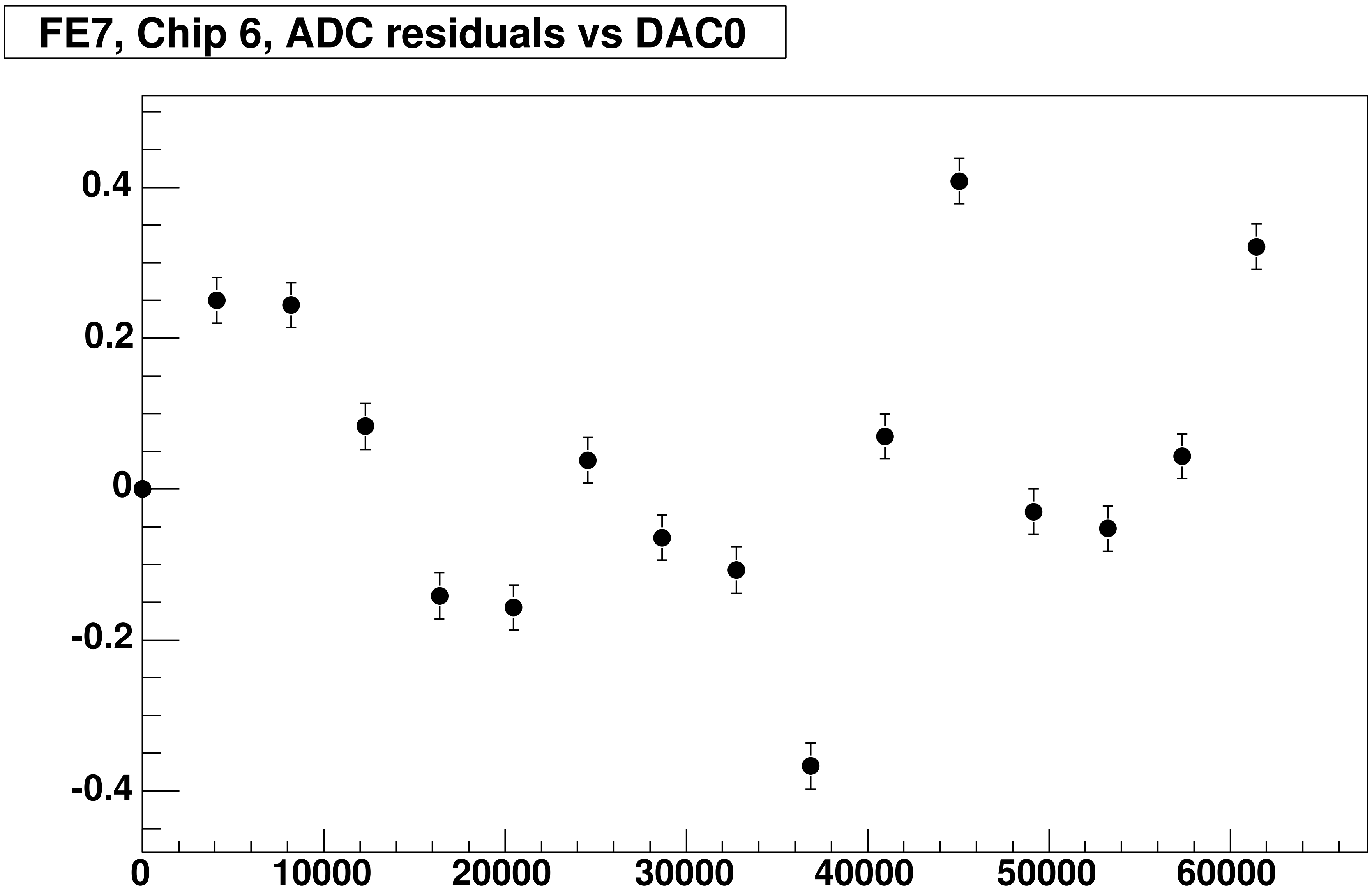
FE7, Chip 5, ADC noise vs DAC1
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

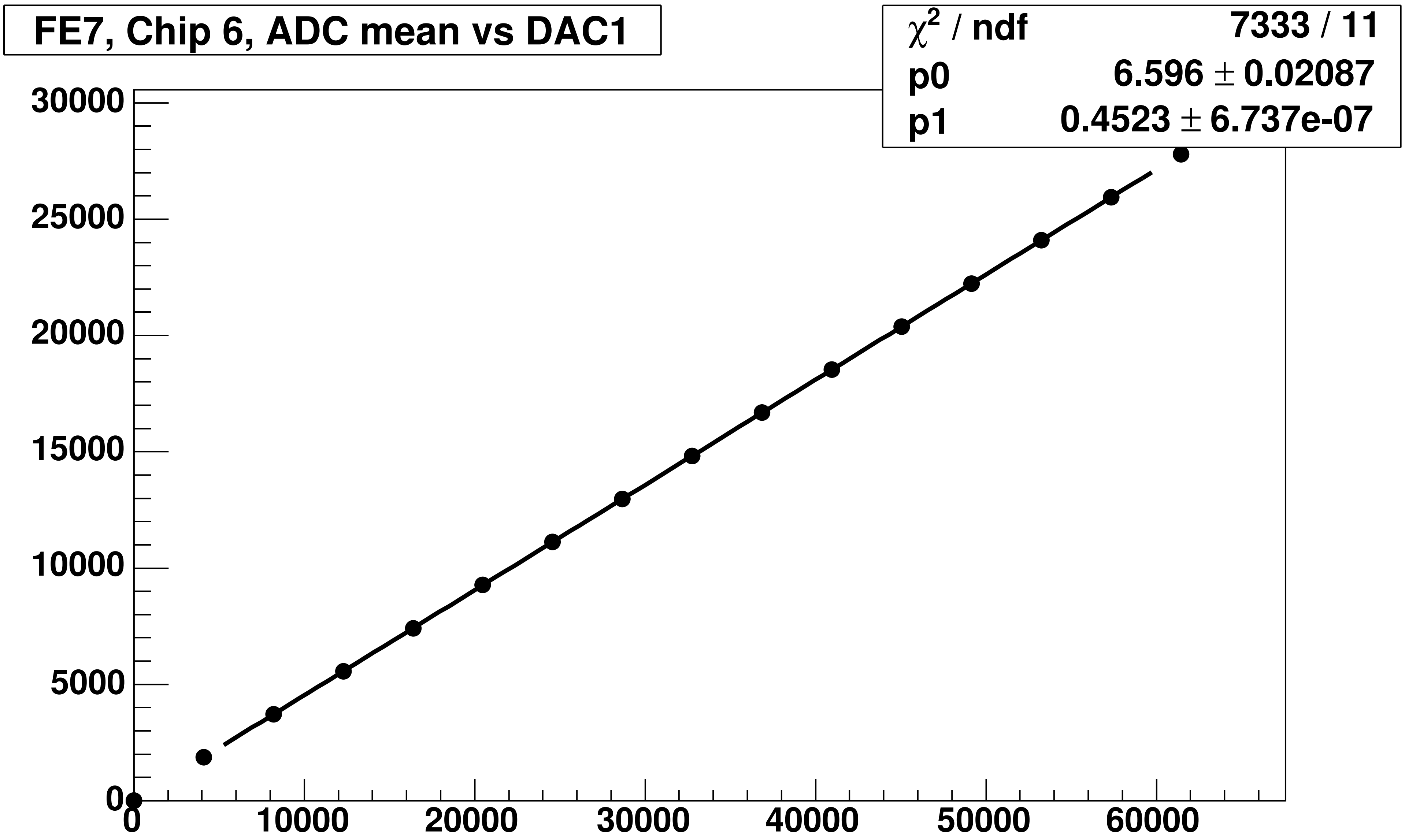

FE7, Chip 6, ADC mean vs DAC0
χ² / ndf 484 / 11
p0 6.444 ± 0.01969
p1 -2.99e-06 ± 5.42e-07
7
6.5
6
5.5
5
4.5
4
3.5
0
10000
20000
30000
40000
50000
60000



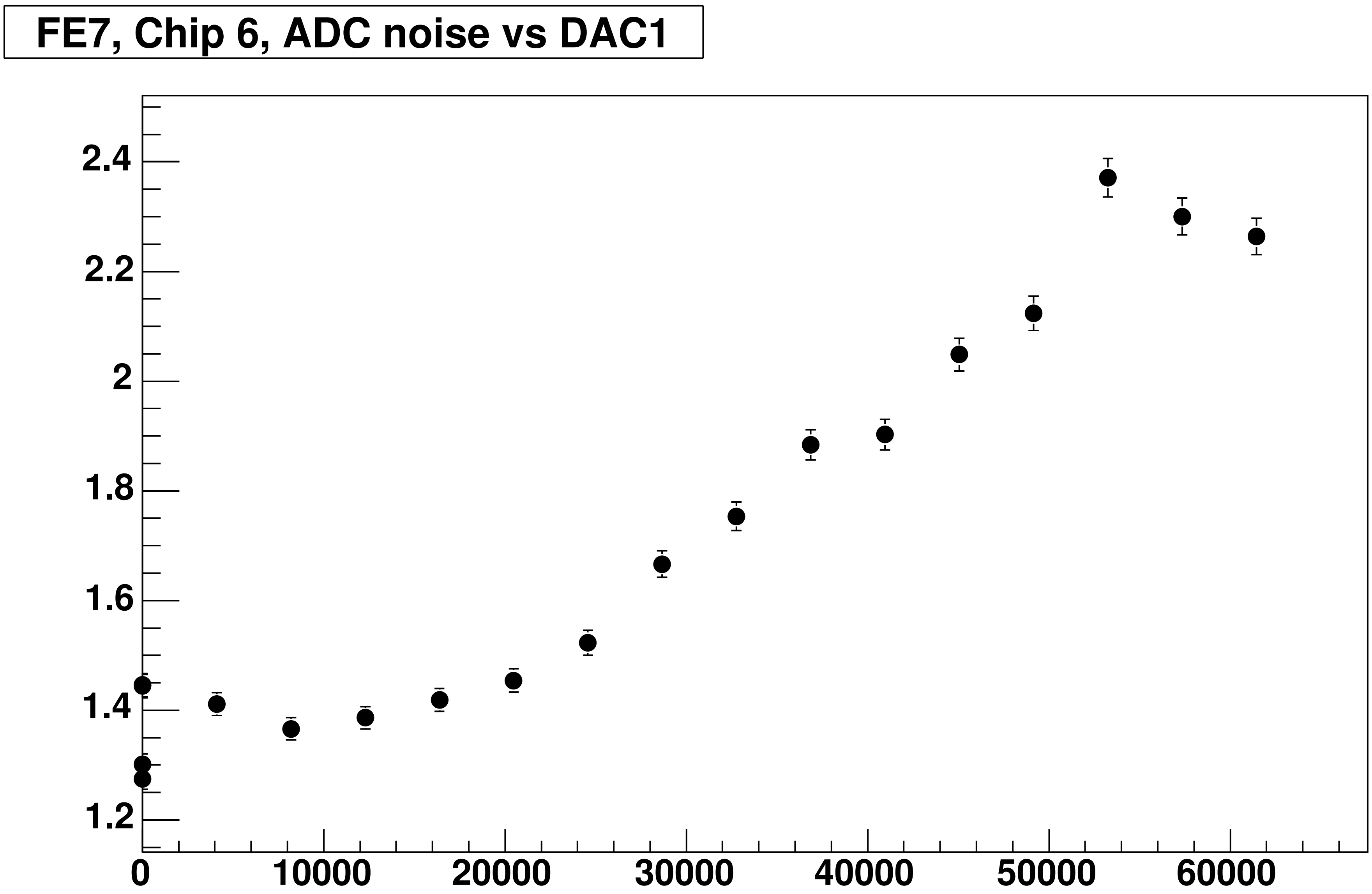
FE7, Chip 6, ADC noise vs DAC0
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000

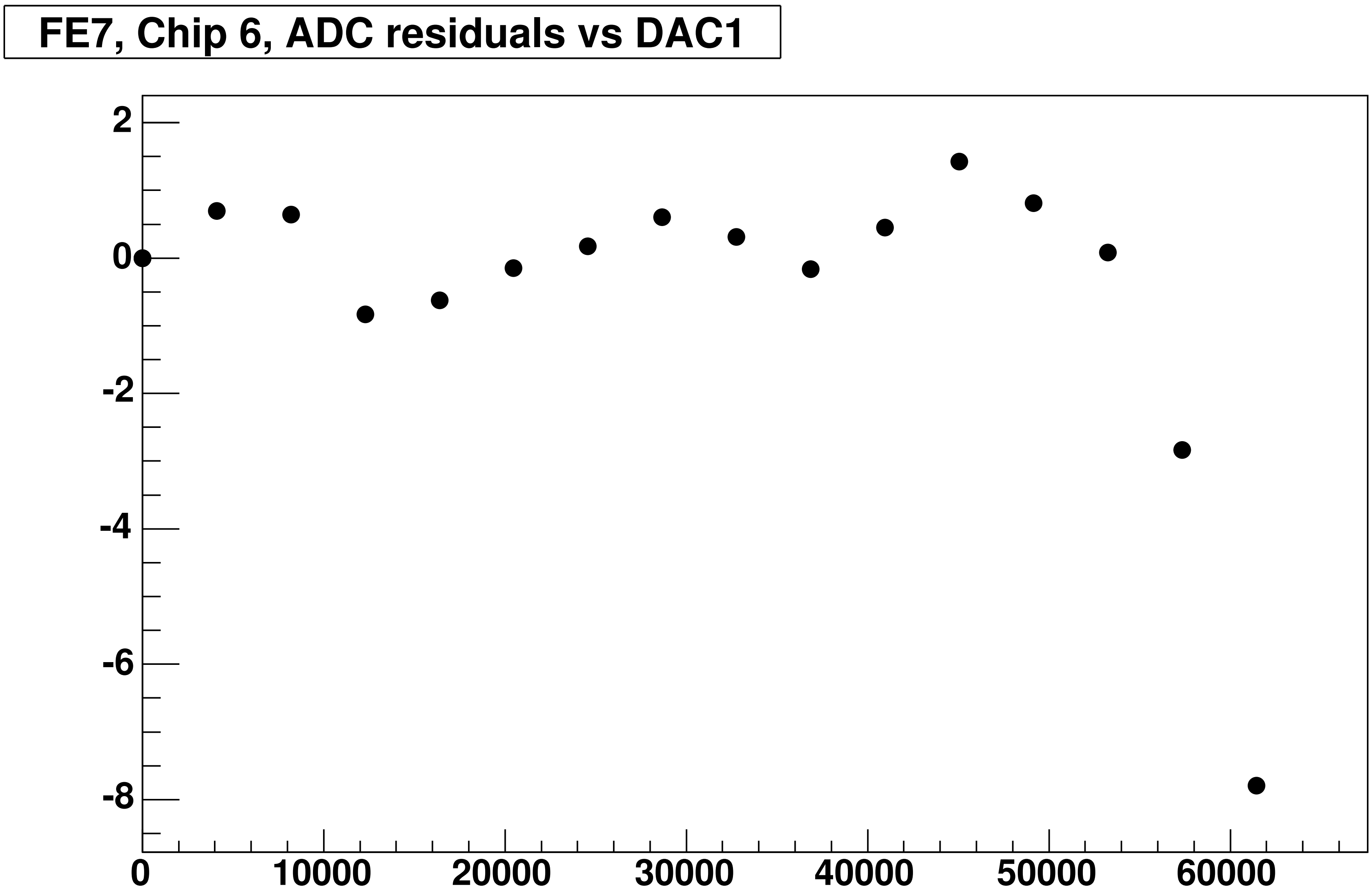


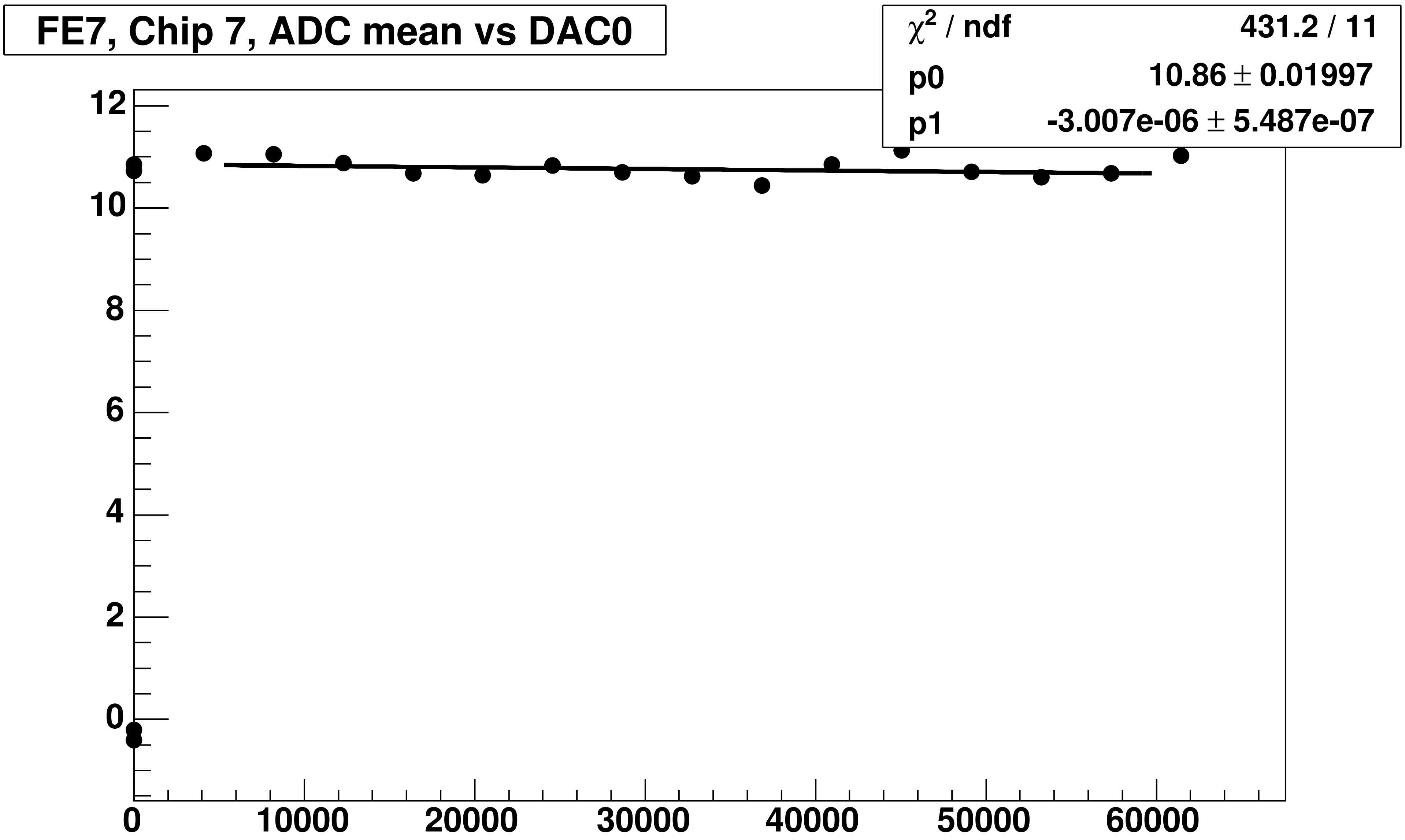
FE7, Chip 6, ADC residuals vs DAC0
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000



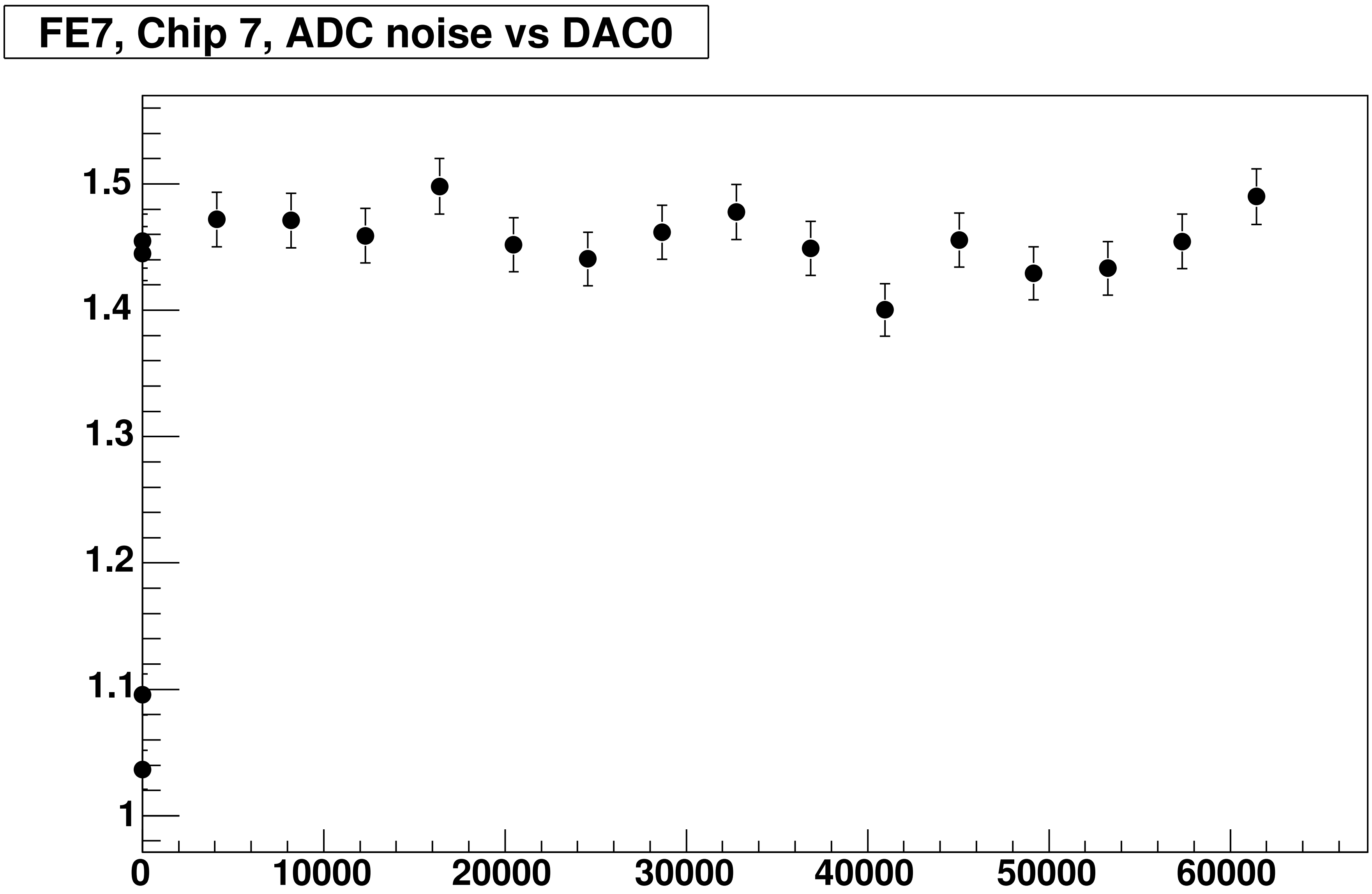
FE7, Chip 6, ADC mean vs DAC1
χ^2 / ndf 7333 / 11
p0 6.596 ± 0.02087
p1 0.4523 ± 6.737e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

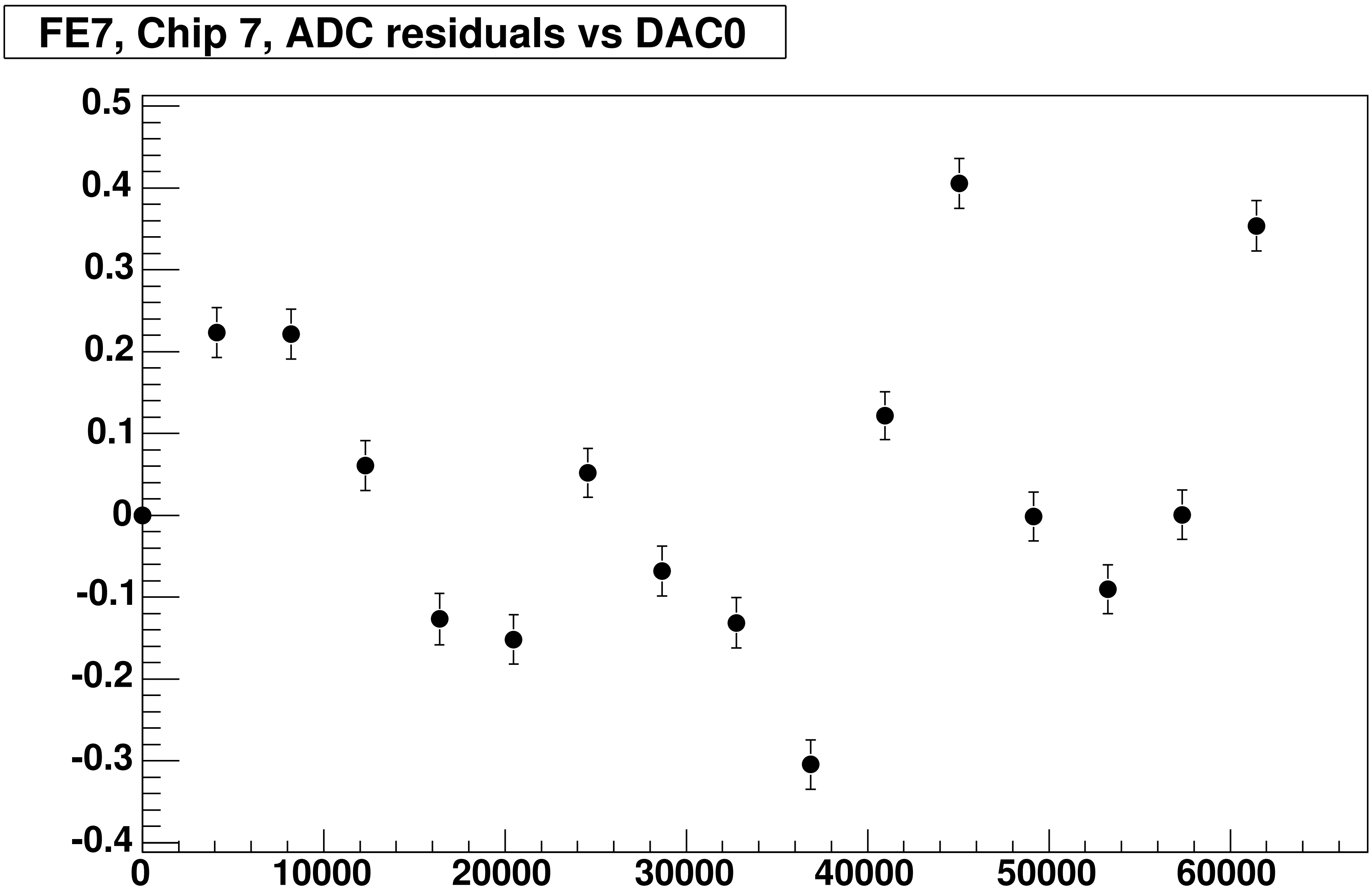

FE7, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

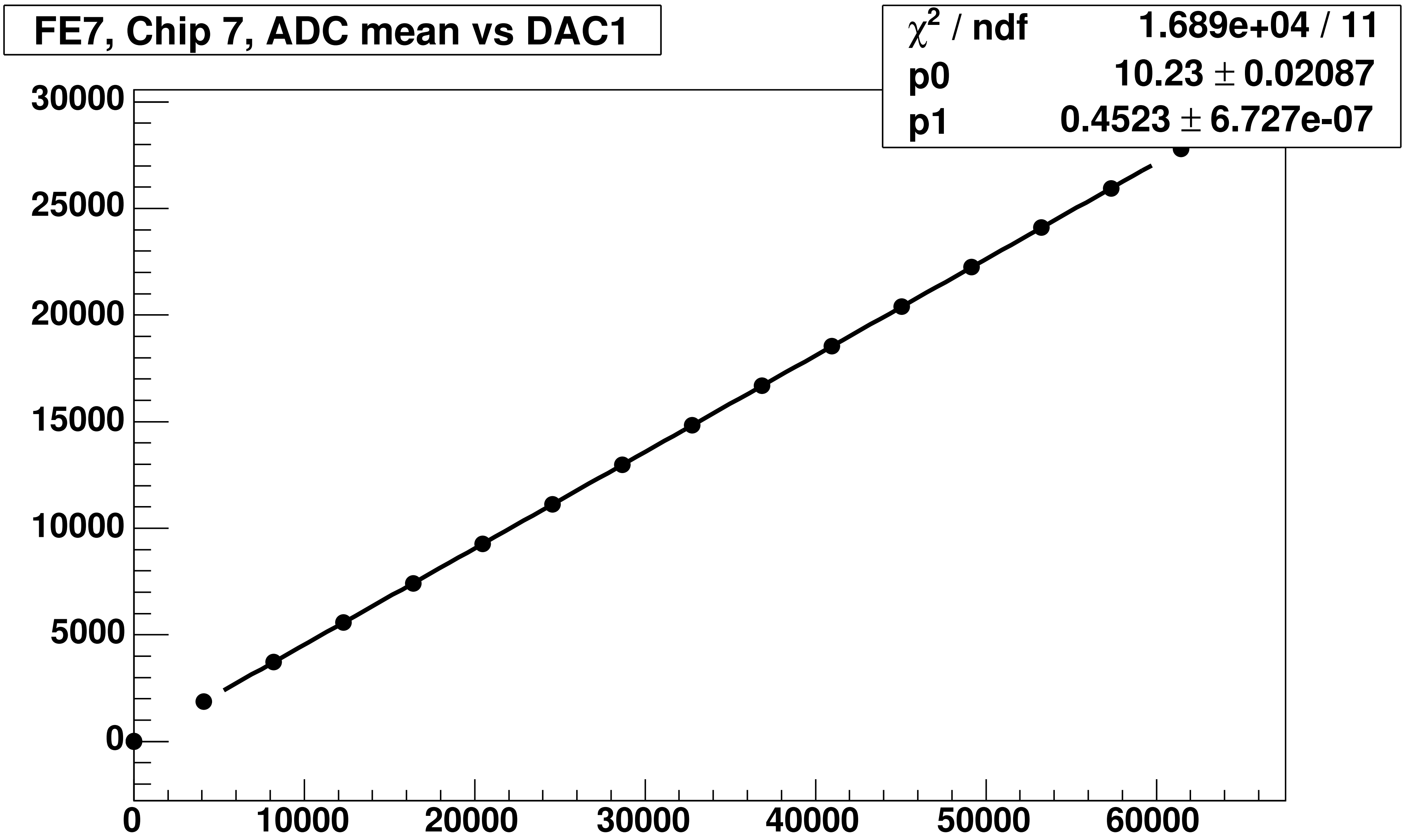

FE7, Chip 6, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000



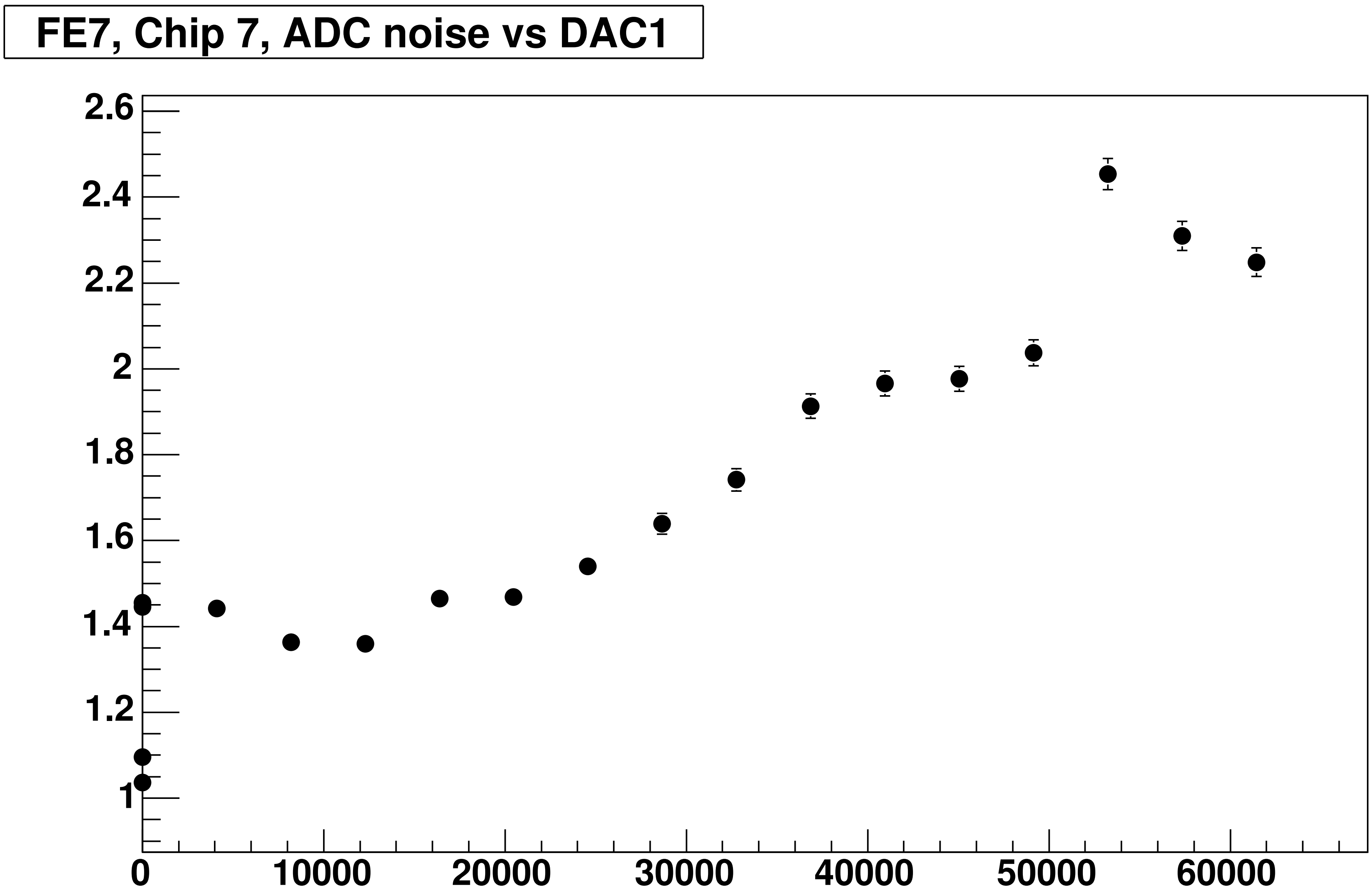
FE7, Chip 7, ADC mean vs DAC0
χ^2 / ndf 431.2 / 11
p0 10.86 ± 0.01997
p1 -3.007e-06 ± 5.487e-07
12
10
8
6
4
2
0
0
10000
20000
30000
40000
50000
60000

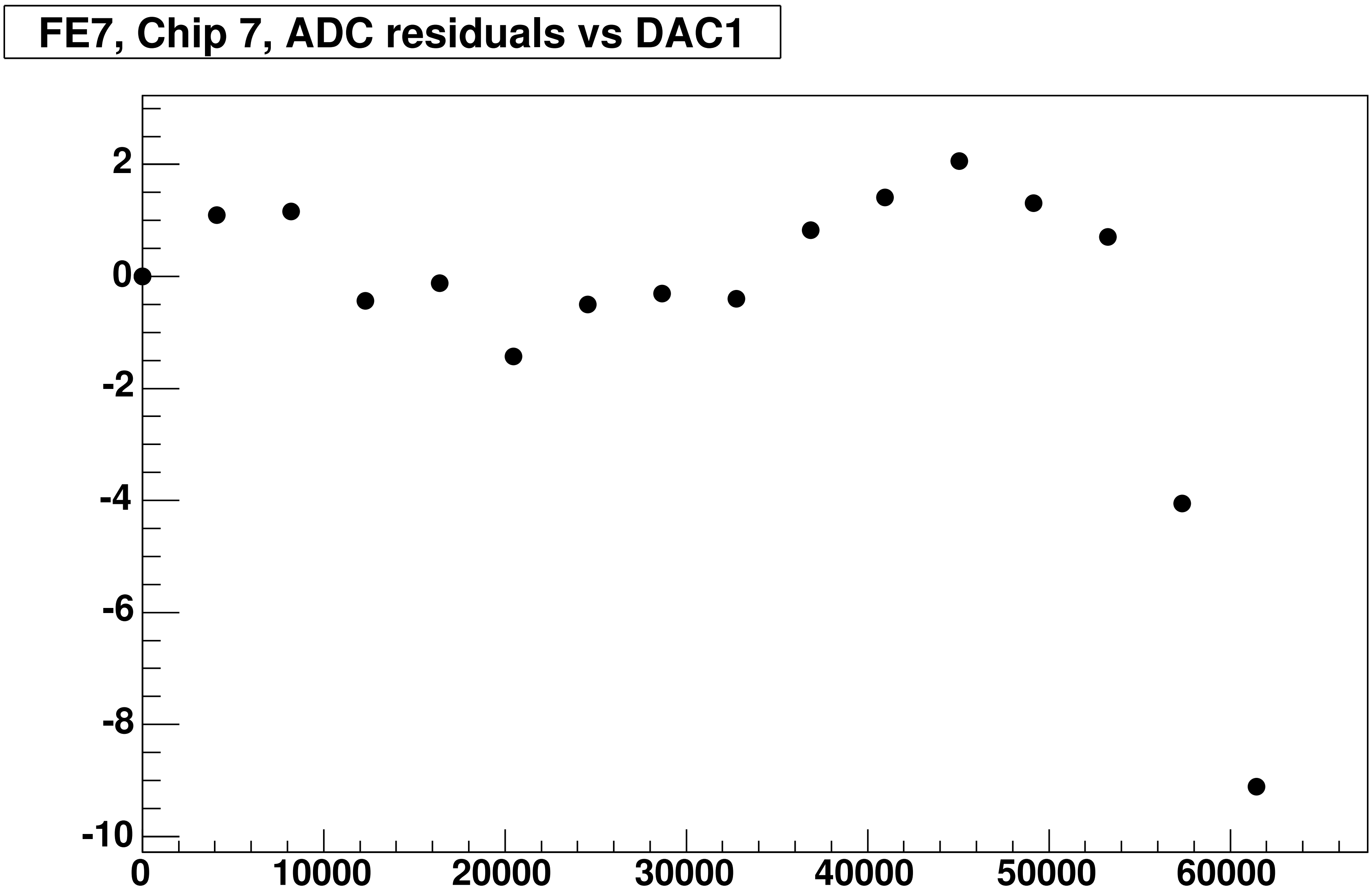

FE7, Chip 7, ADC noise vs DAC0
1.5
1.4
1.3
1.2
1.1
1
0
10000
20000
30000
40000
50000
60000


FE7, Chip 7, ADC residuals vs DAC0
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

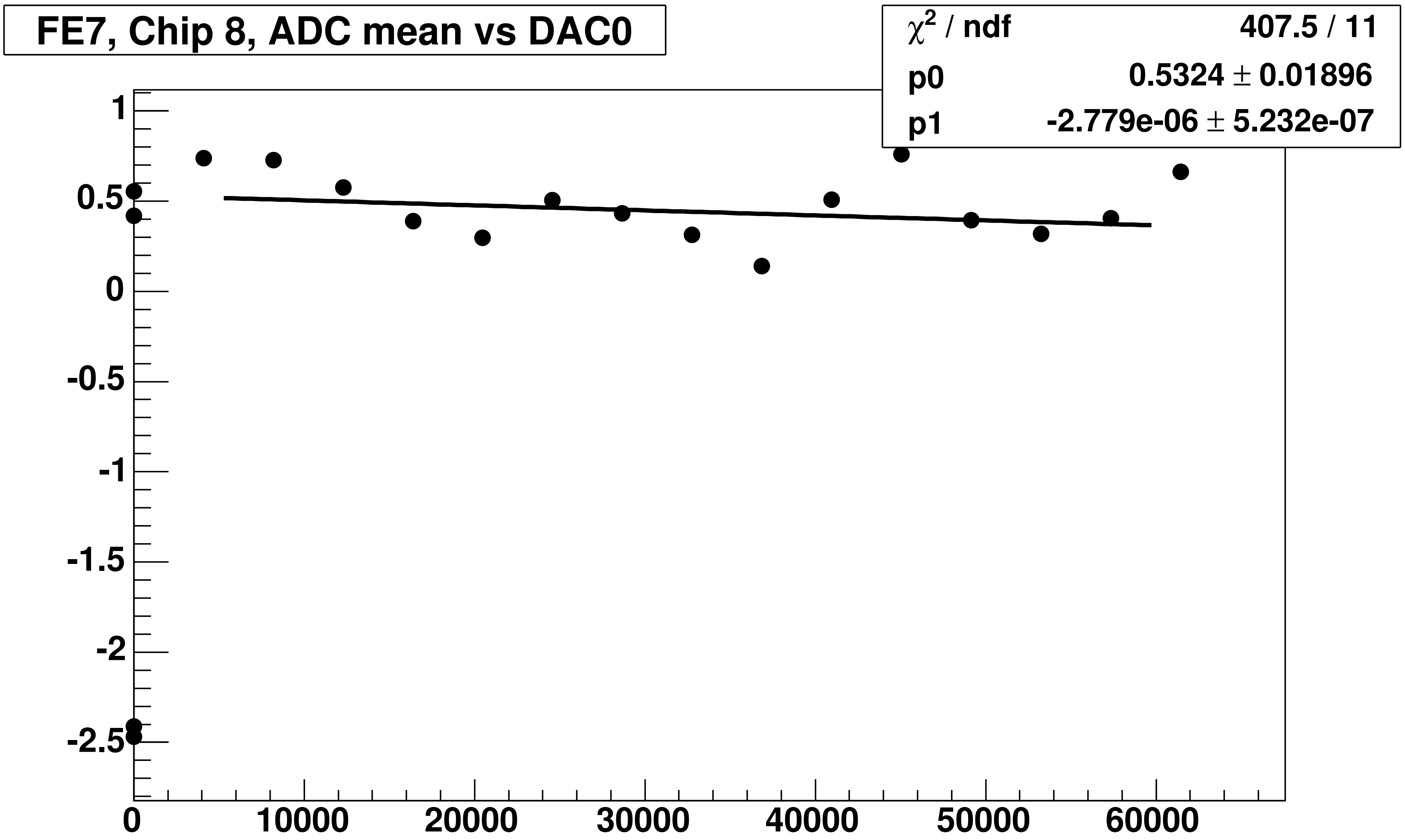


FE7, Chip 7, ADC mean vs DAC1
χ² / ndf 1.689e+04 / 11
p0 10.23 ± 0.02087
p1 0.4523 ± 6.727e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

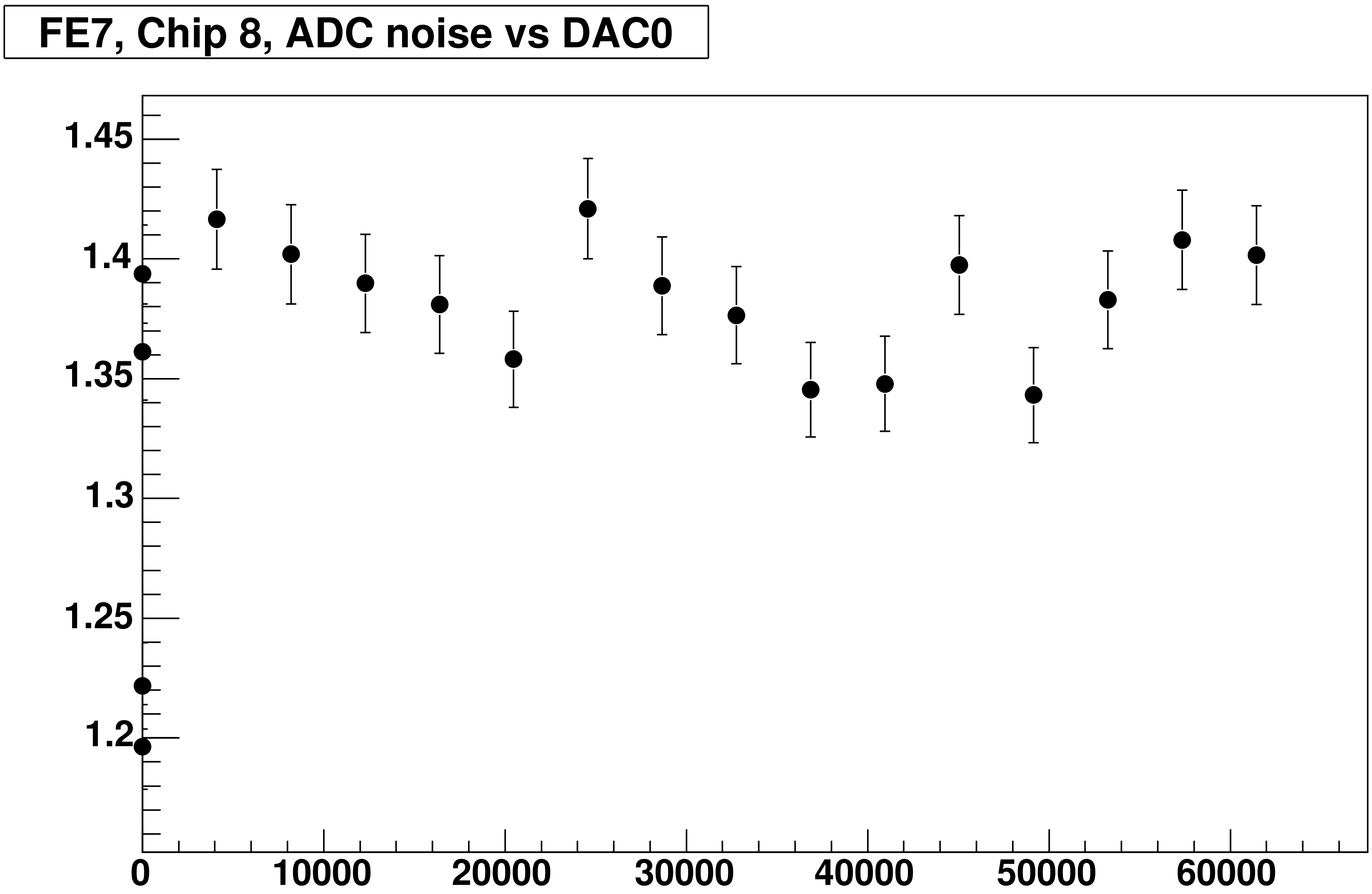

FE7, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0
10000
20000
30000
40000
50000
60000

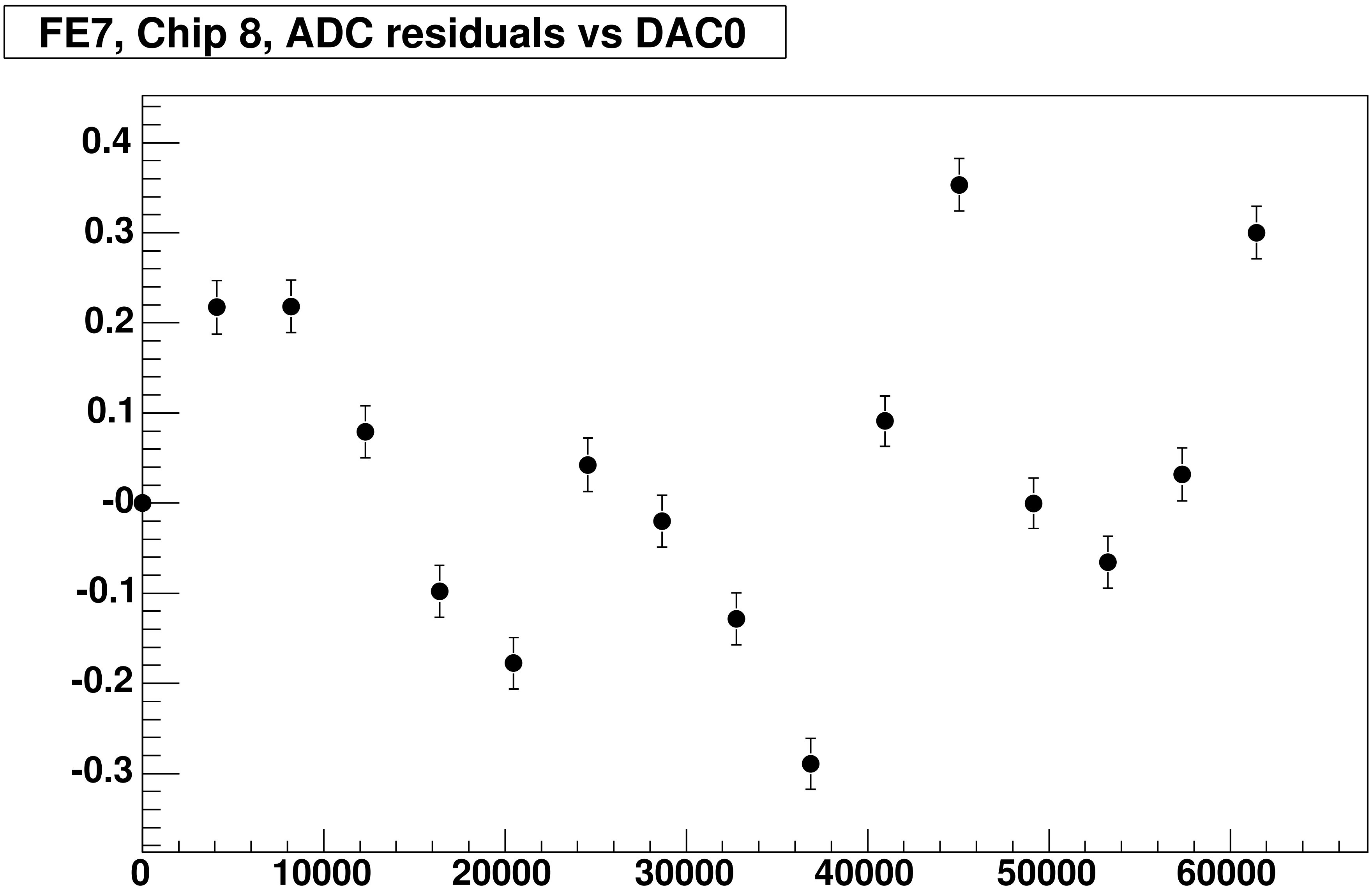


FE7, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
-10
0
10000
20000
30000
40000
50000
60000

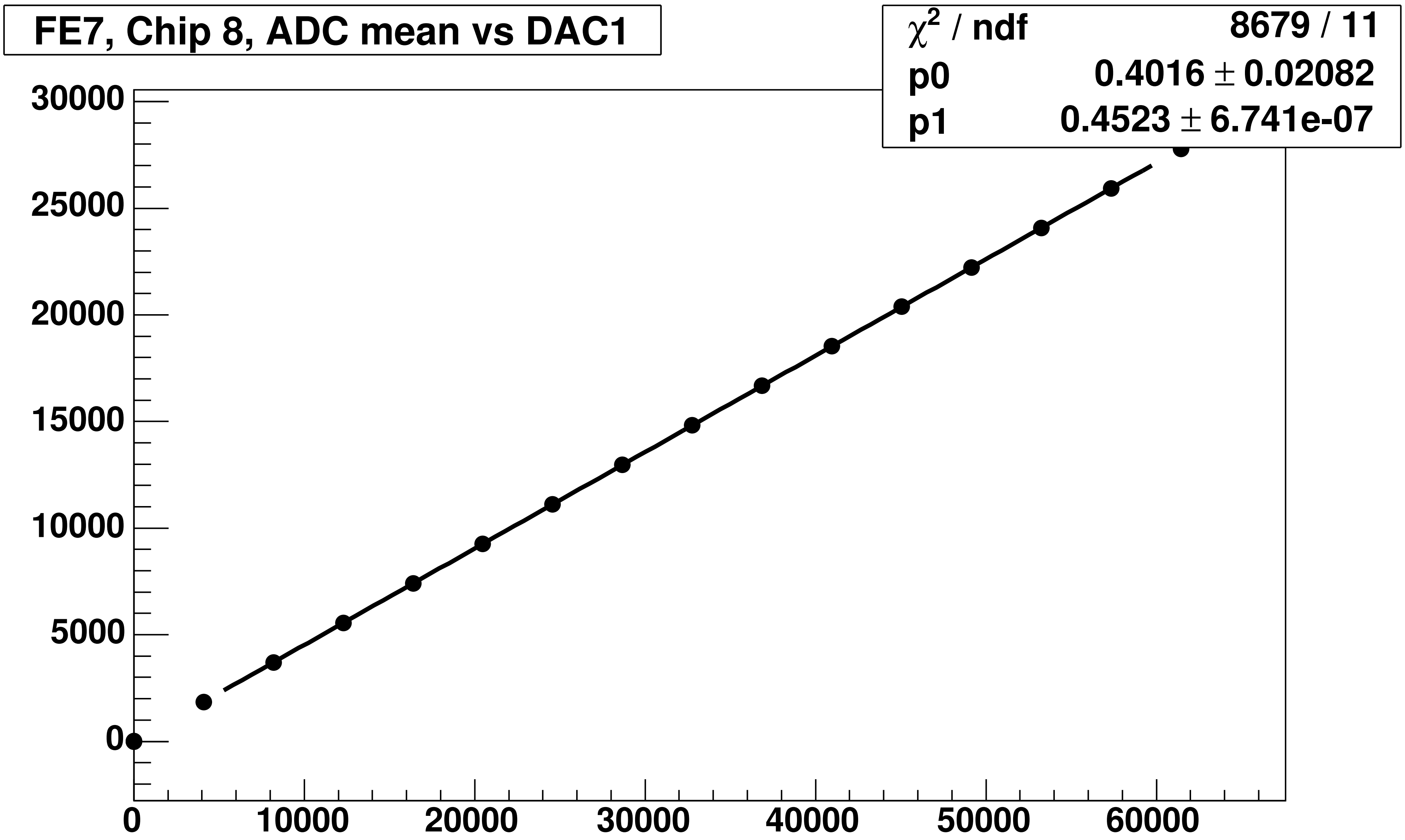


FE7, Chip 8, ADC mean vs DAC0
χ^2 / ndf 407.5 / 11
p0 0.5324 ± 0.01896
p1 -2.779e-06 ± 5.232e-07
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
0
10000
20000
30000
40000
50000
60000

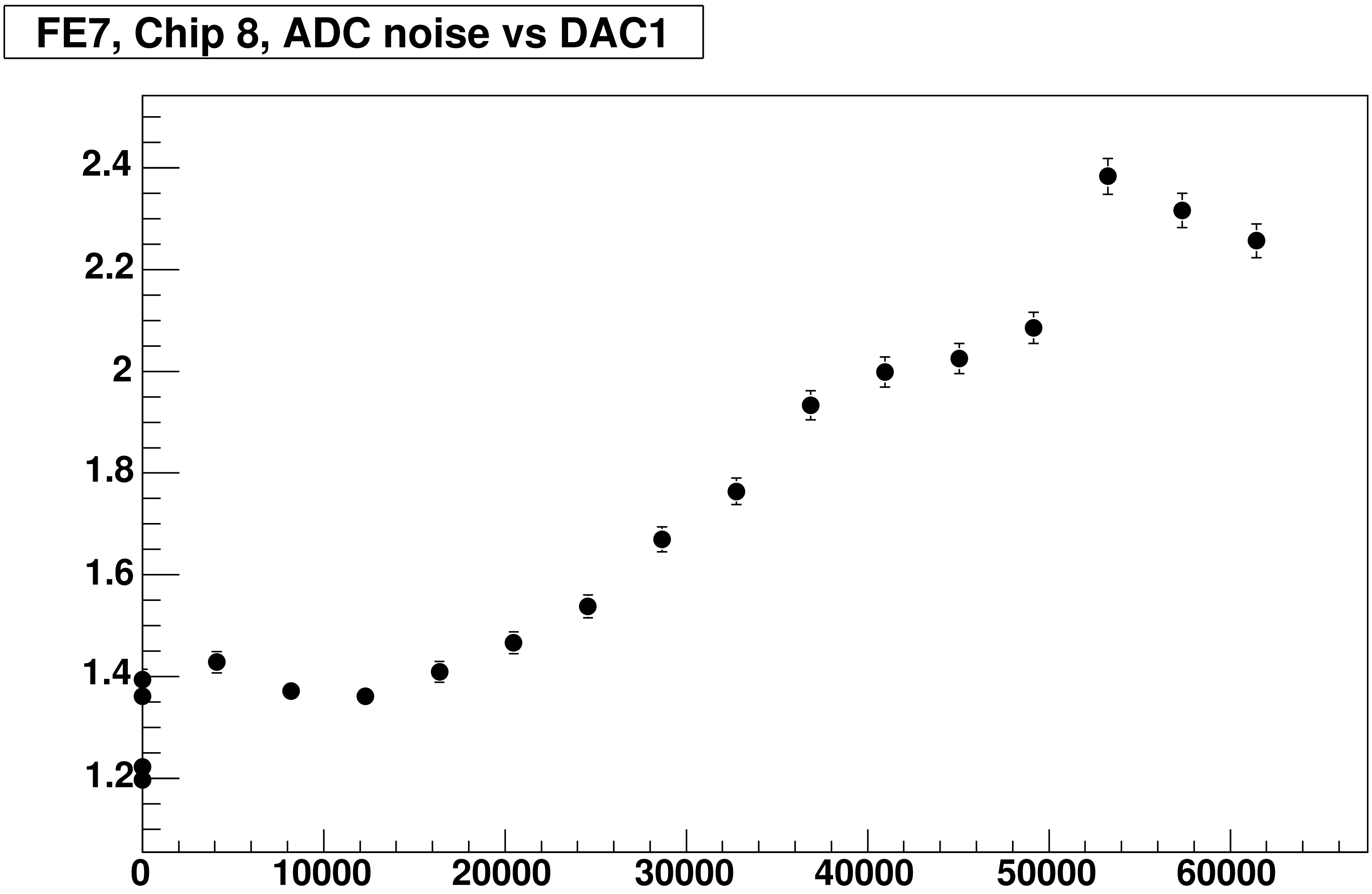

FE7, Chip 8, ADC noise vs DAC0
1.45
1.4
1.35
1.3
1.25
1.2
0
10000
20000
30000
40000
50000
60000

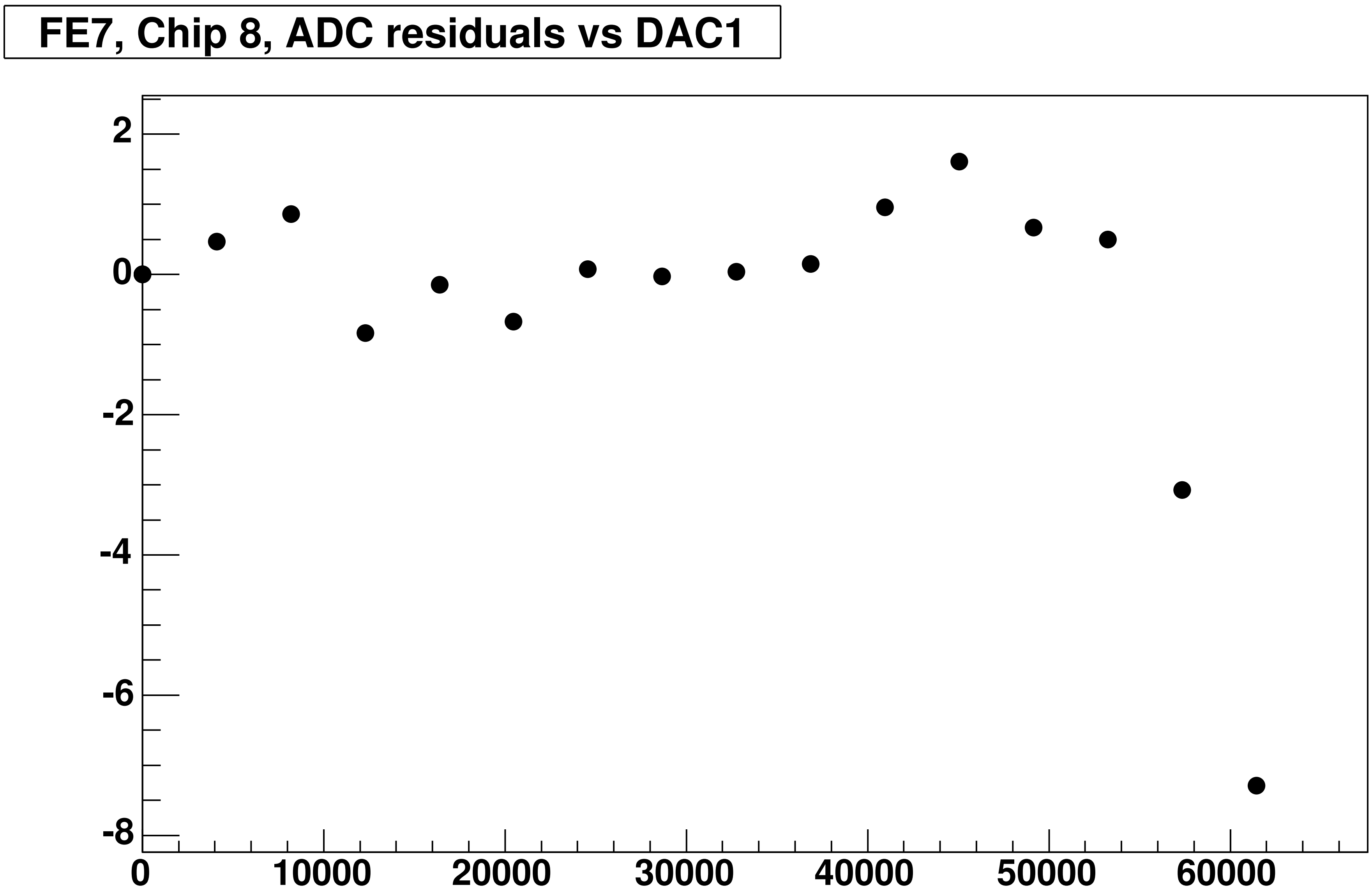


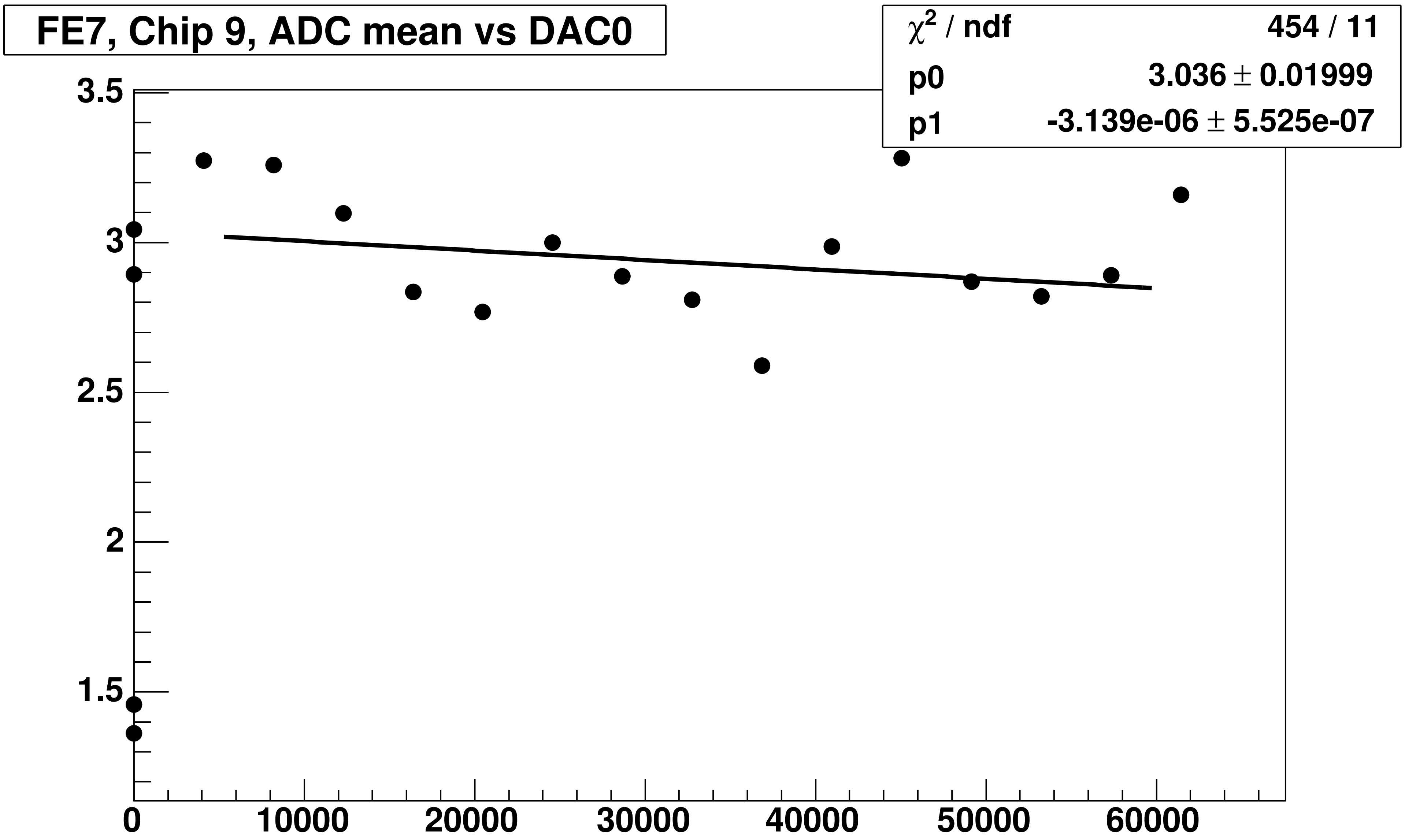
FE7, Chip 8, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

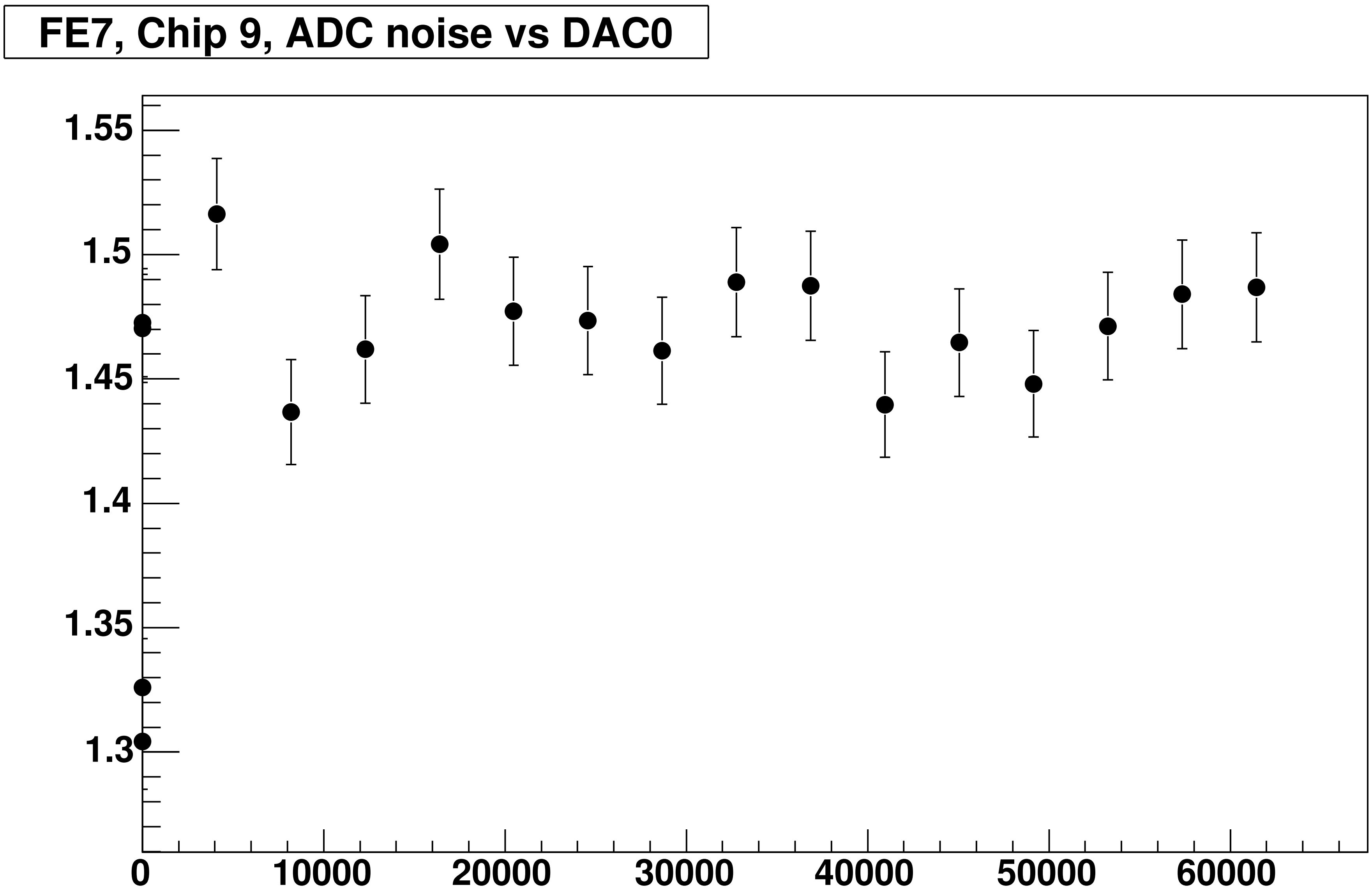


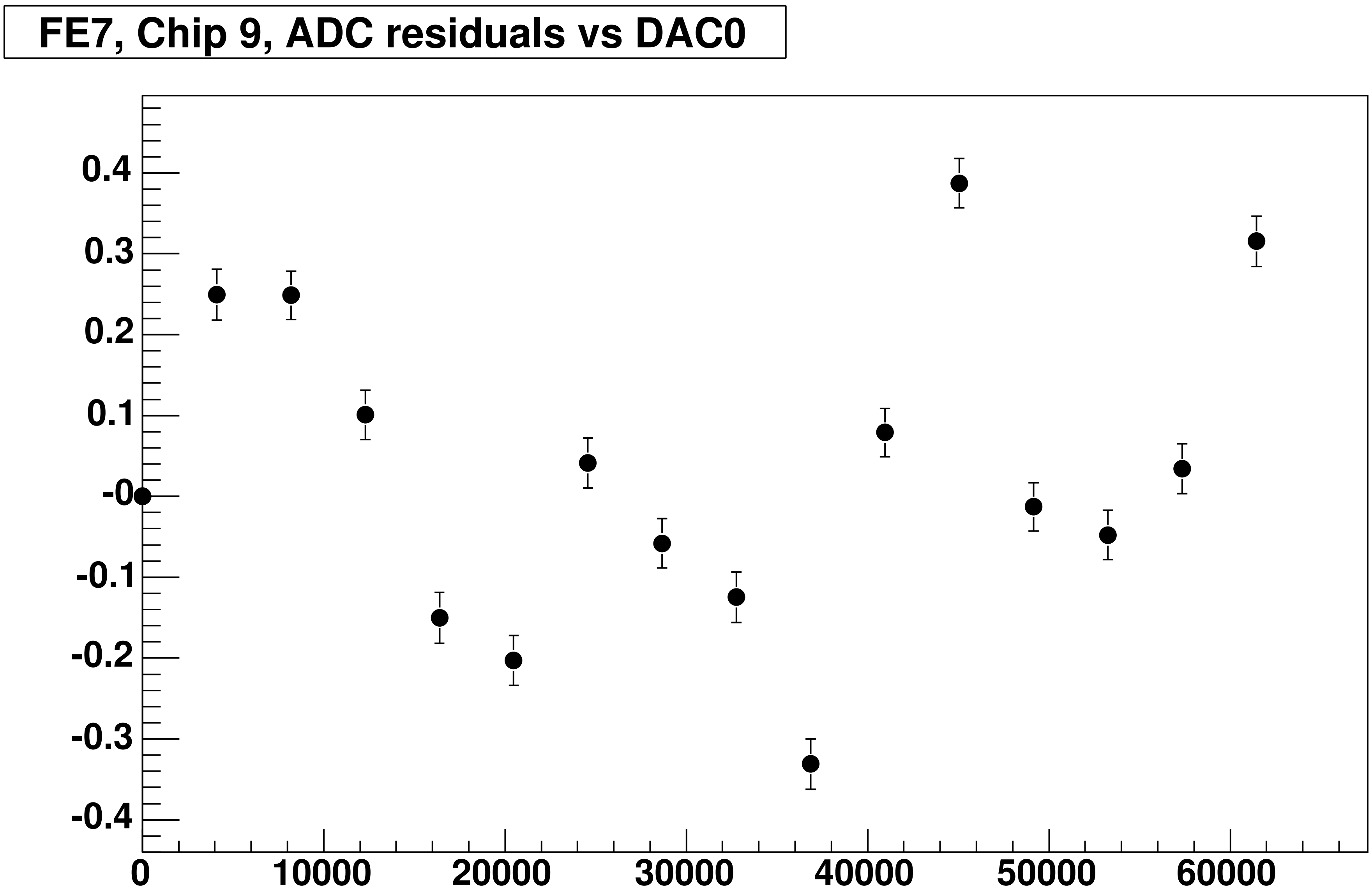
FE7, Chip 8, ADC mean vs DAC1
χ^2 / ndf 8679 / 11
p0 0.4016 ± 0.02082
p1 0.4523 ± 6.741e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

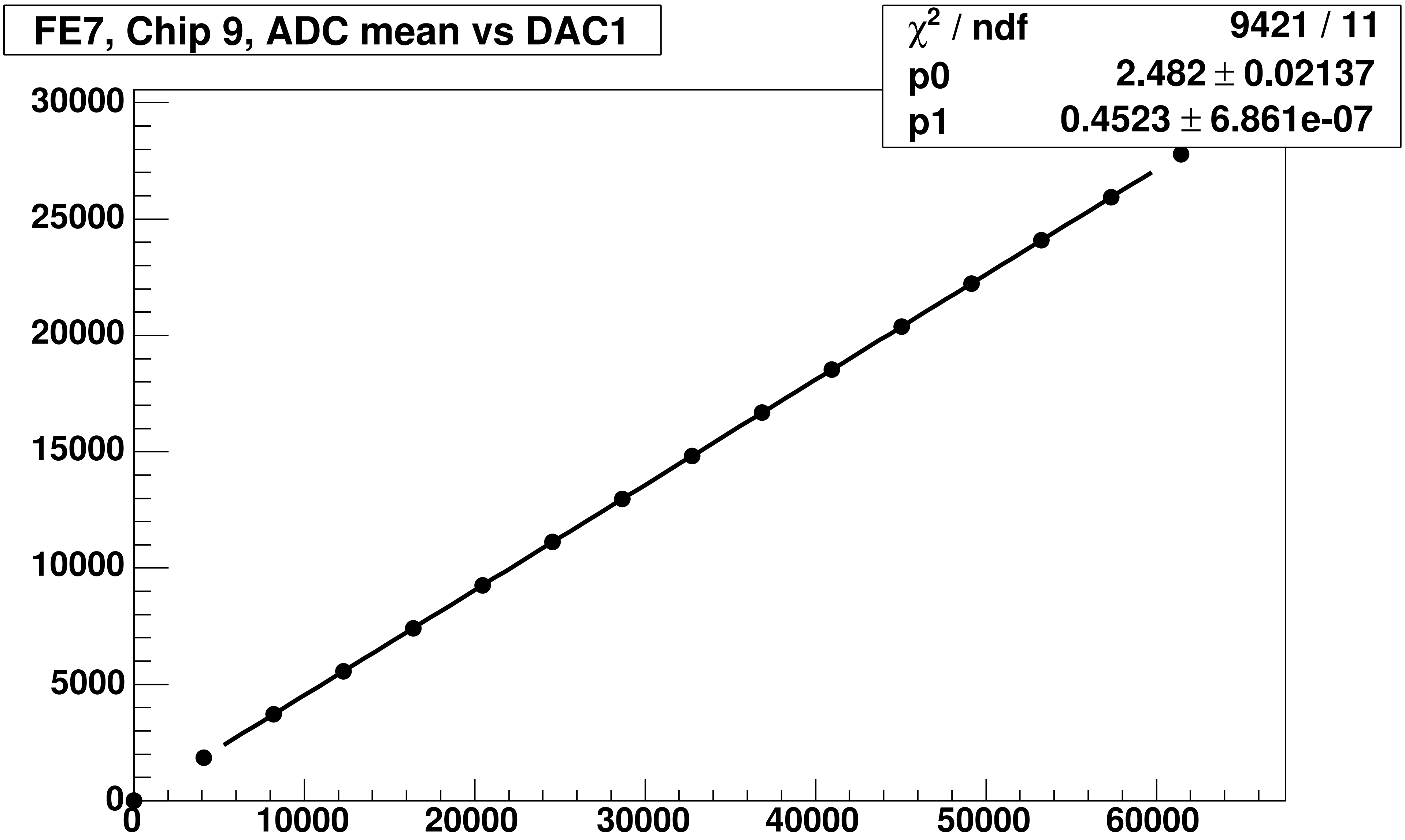

FE7, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

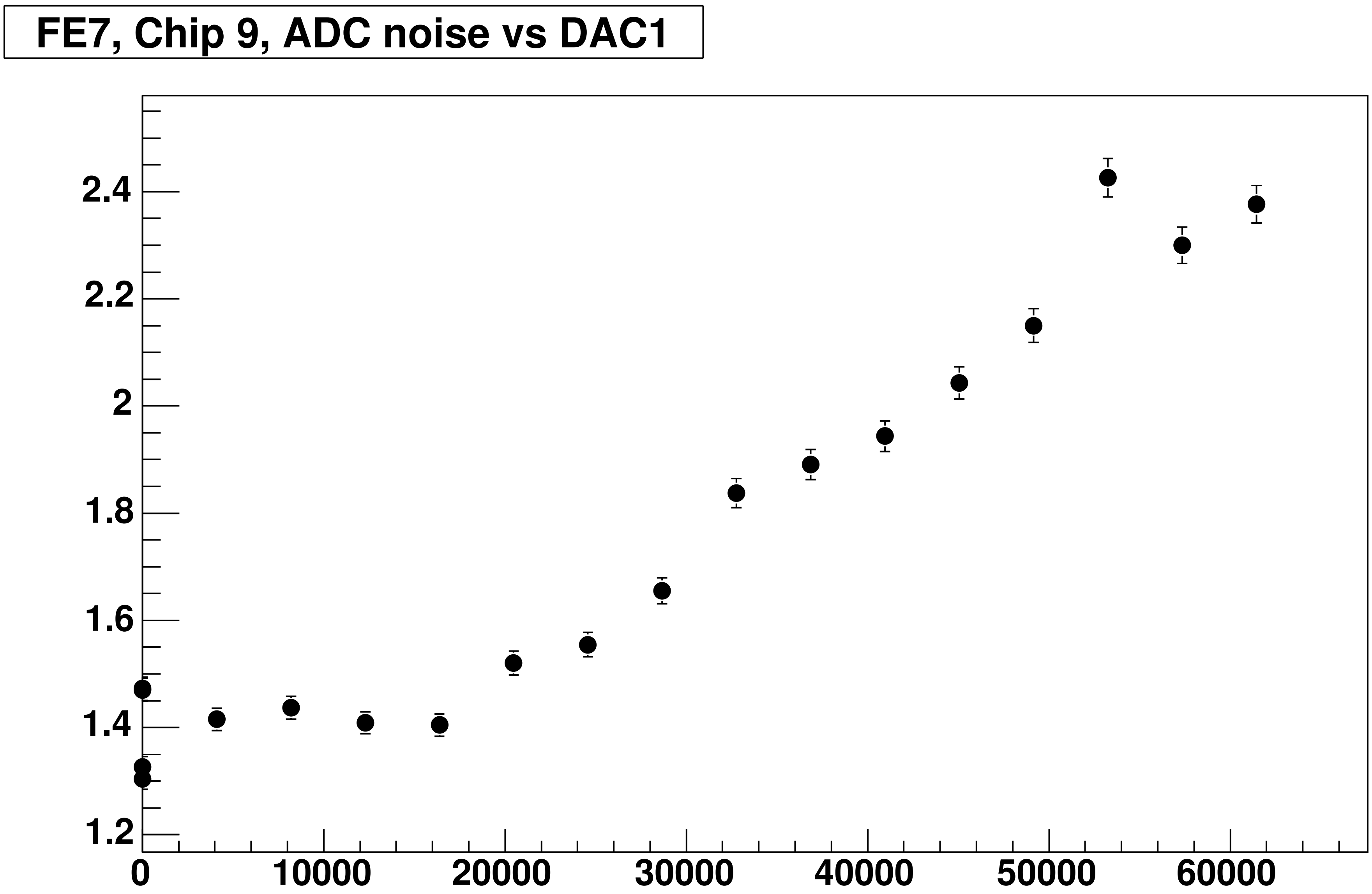

FE7, Chip 8, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

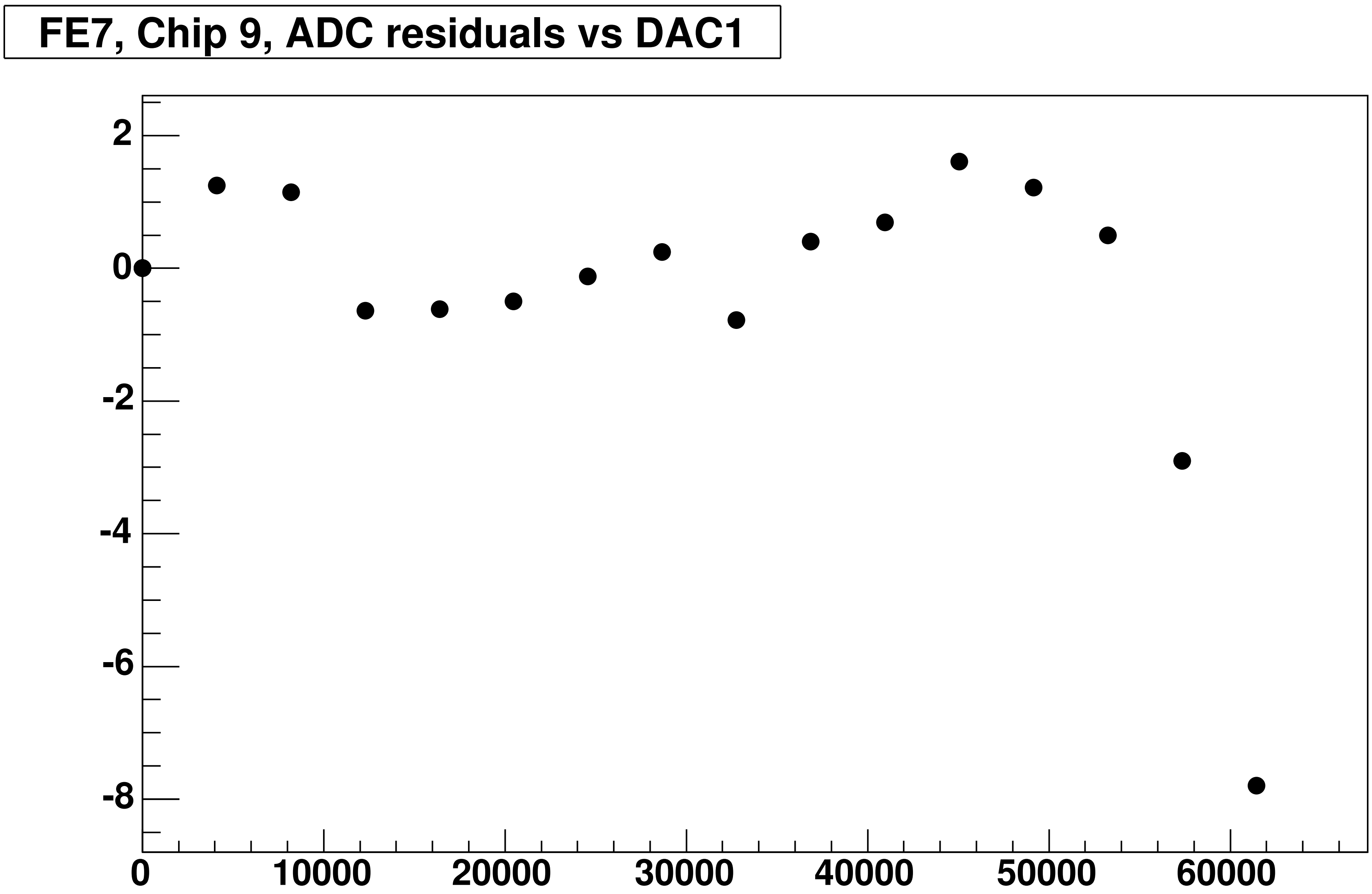

FE7, Chip 9, ADC mean vs DAC0
χ^2 / ndf 454 / 11
p0 3.036 ± 0.01999
p1 -3.139e-06 ± 5.525e-07
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

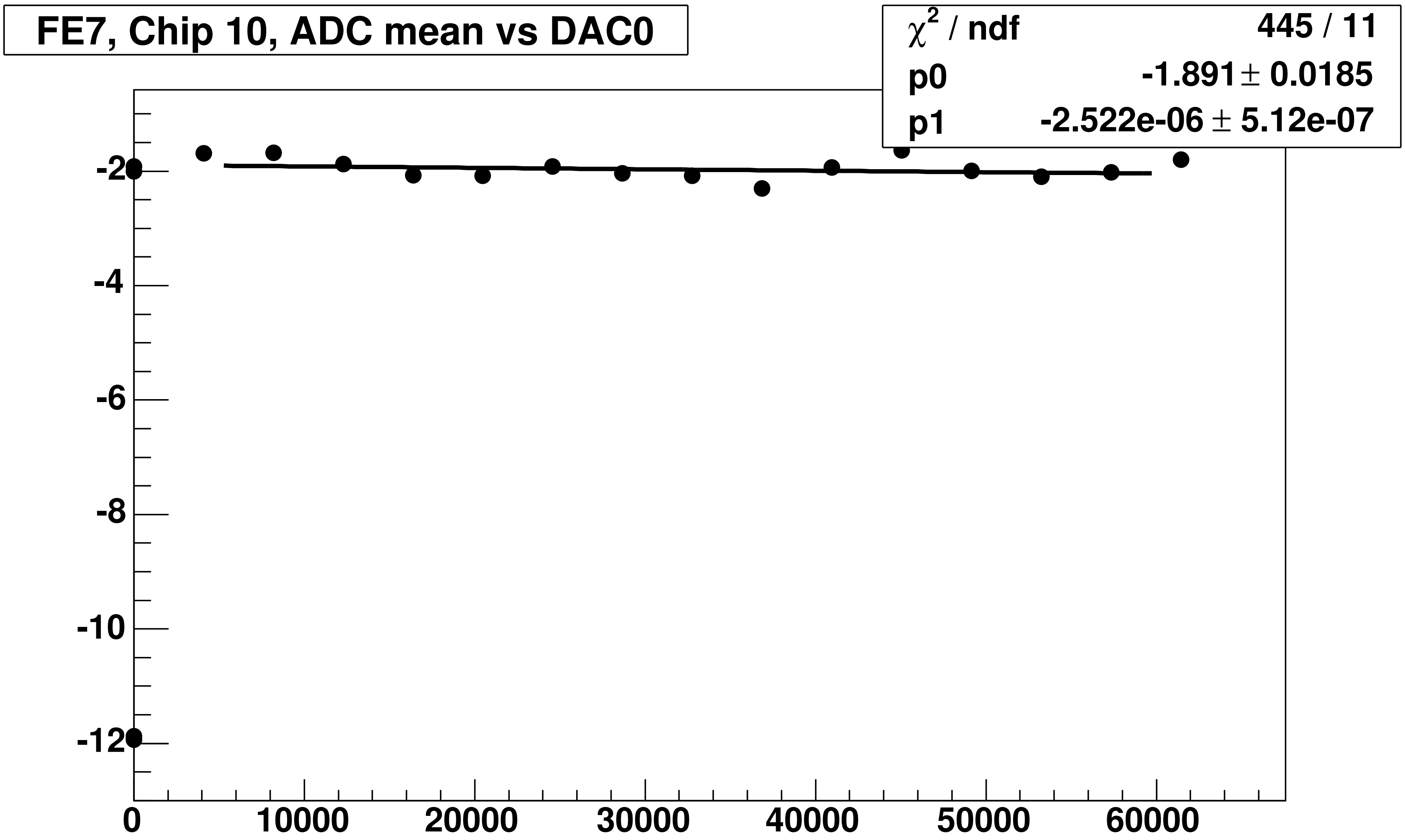

FE7, Chip 9, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


FE7, Chip 9, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

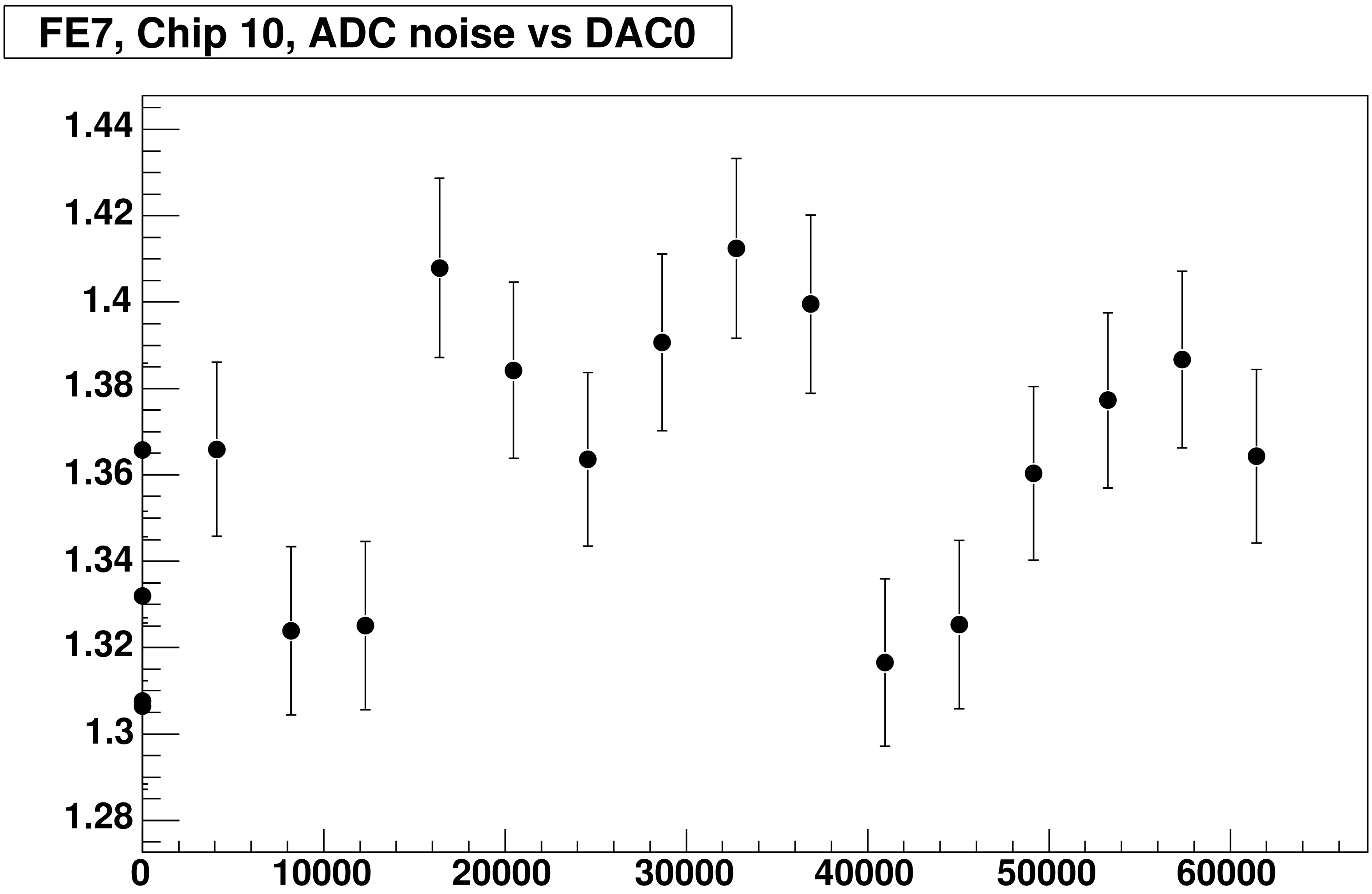

FE7, Chip 9, ADC mean vs DAC1
χ^2 / ndf 9421 / 11
p0 2.482 ± 0.02137
p1 0.4523 ± 6.861e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

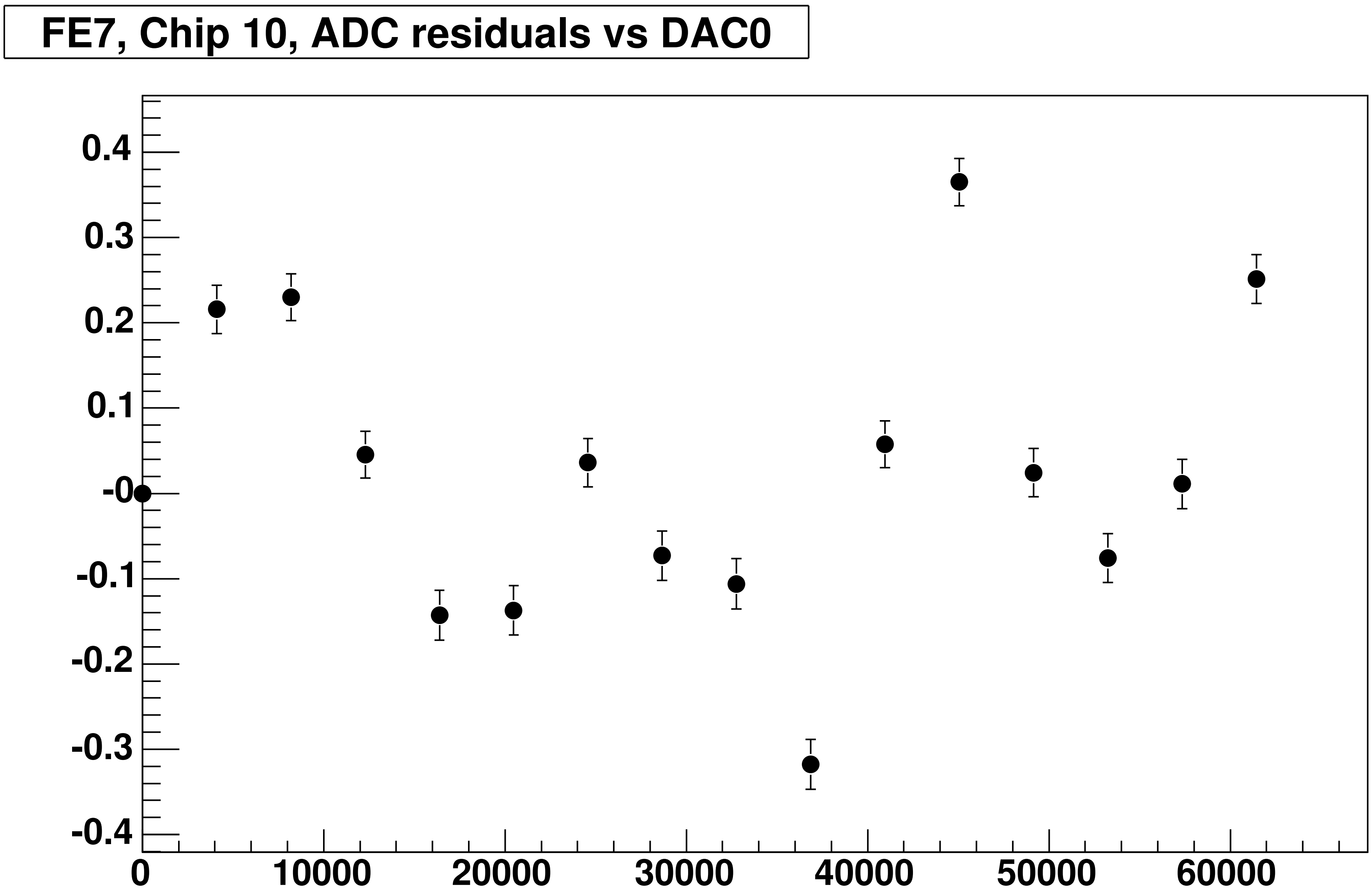

FE7, Chip 9, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 9, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

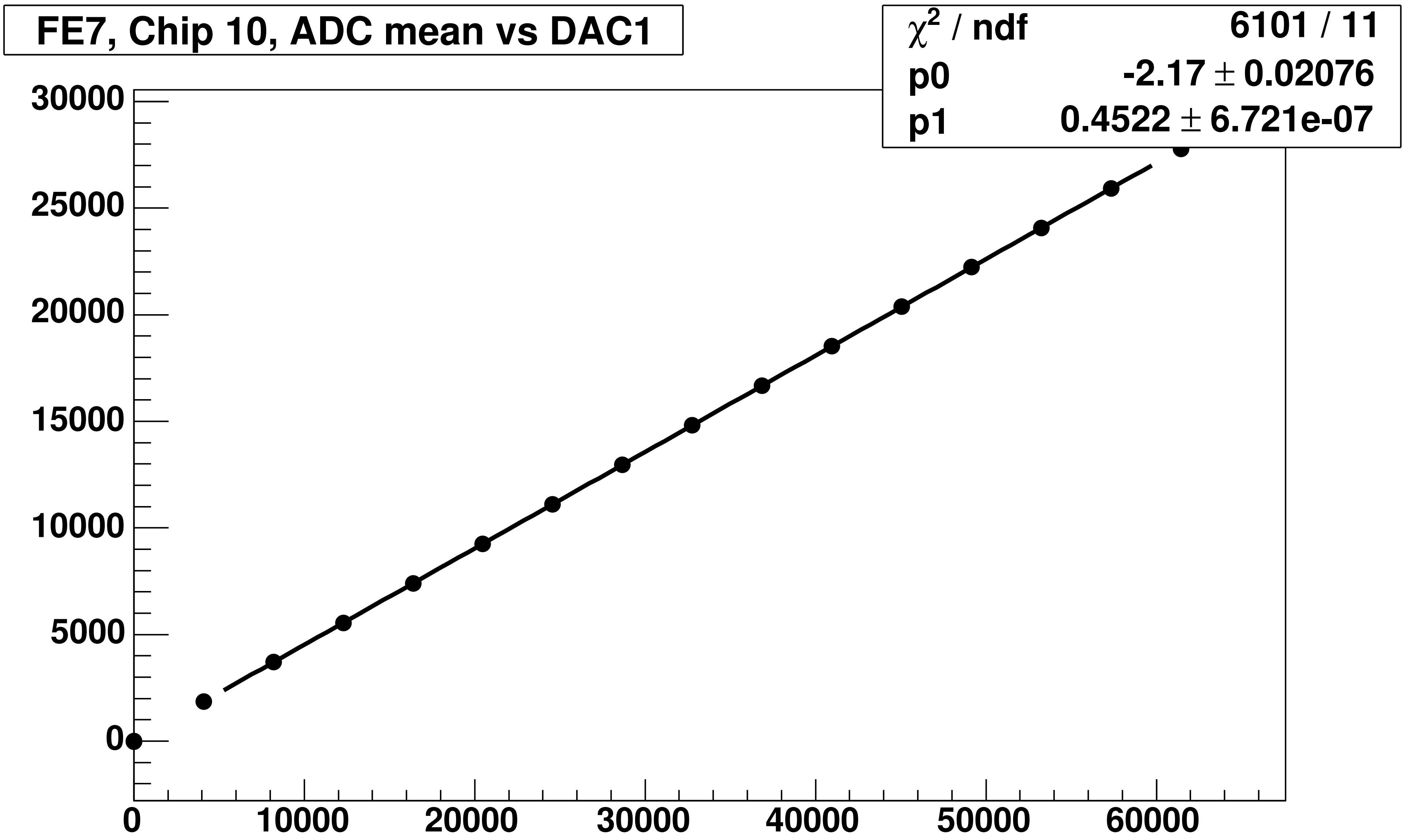


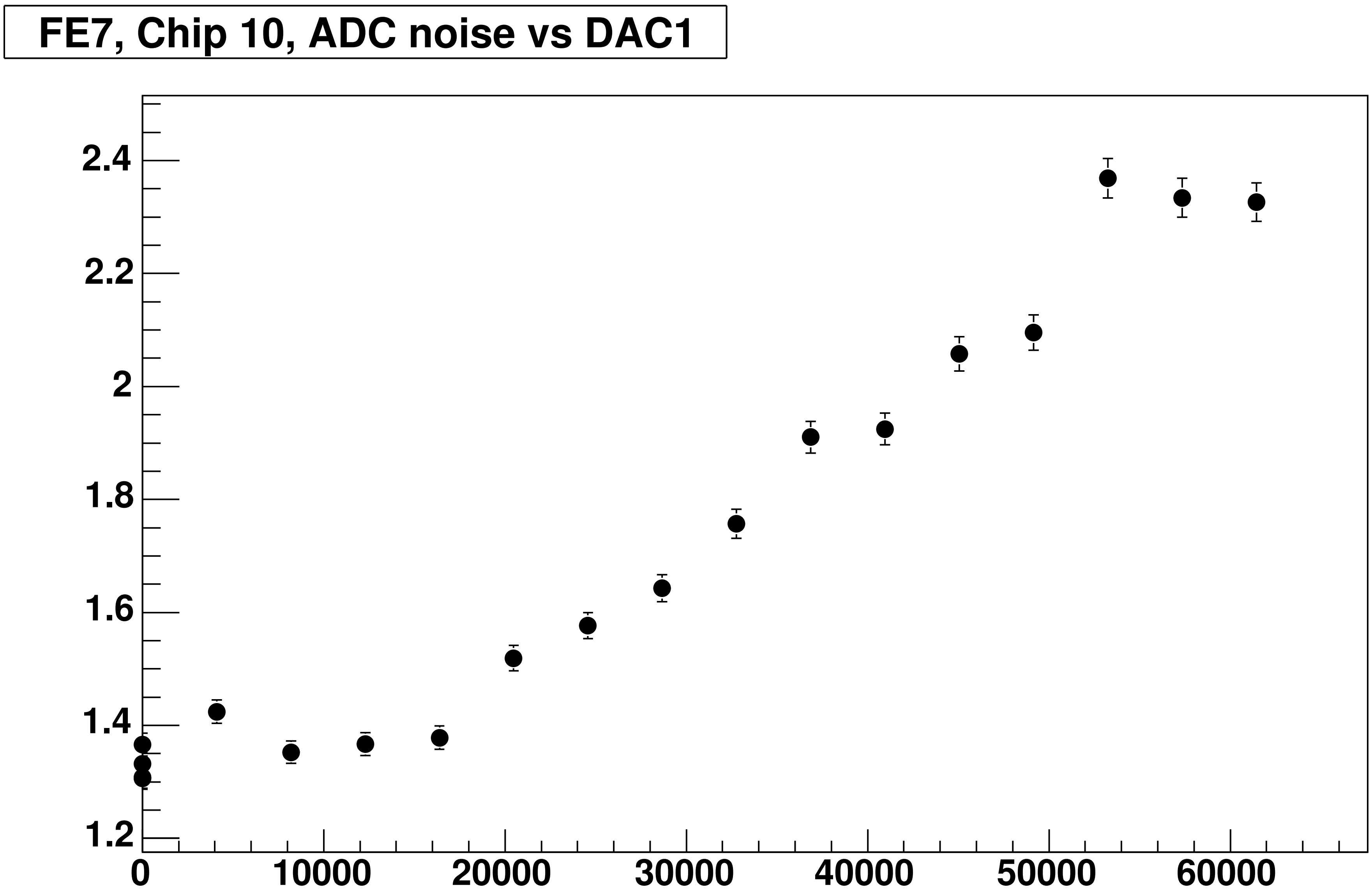
FE7, Chip 10, ADC mean vs DAC0
χ² / ndf 445 / 11
p0 -1.891 ± 0.0185
p1 -2.522e-06 ± 5.12e-07
-2
-4
-6
-8
-10
-12
0
10000
20000
30000
40000
50000
60000


FE7, Chip 10, ADC noise vs DAC0
1.44
1.42
1.4
1.38
1.36
1.34
1.32
1.3
1.28
0
10000
20000
30000
40000
50000
60000

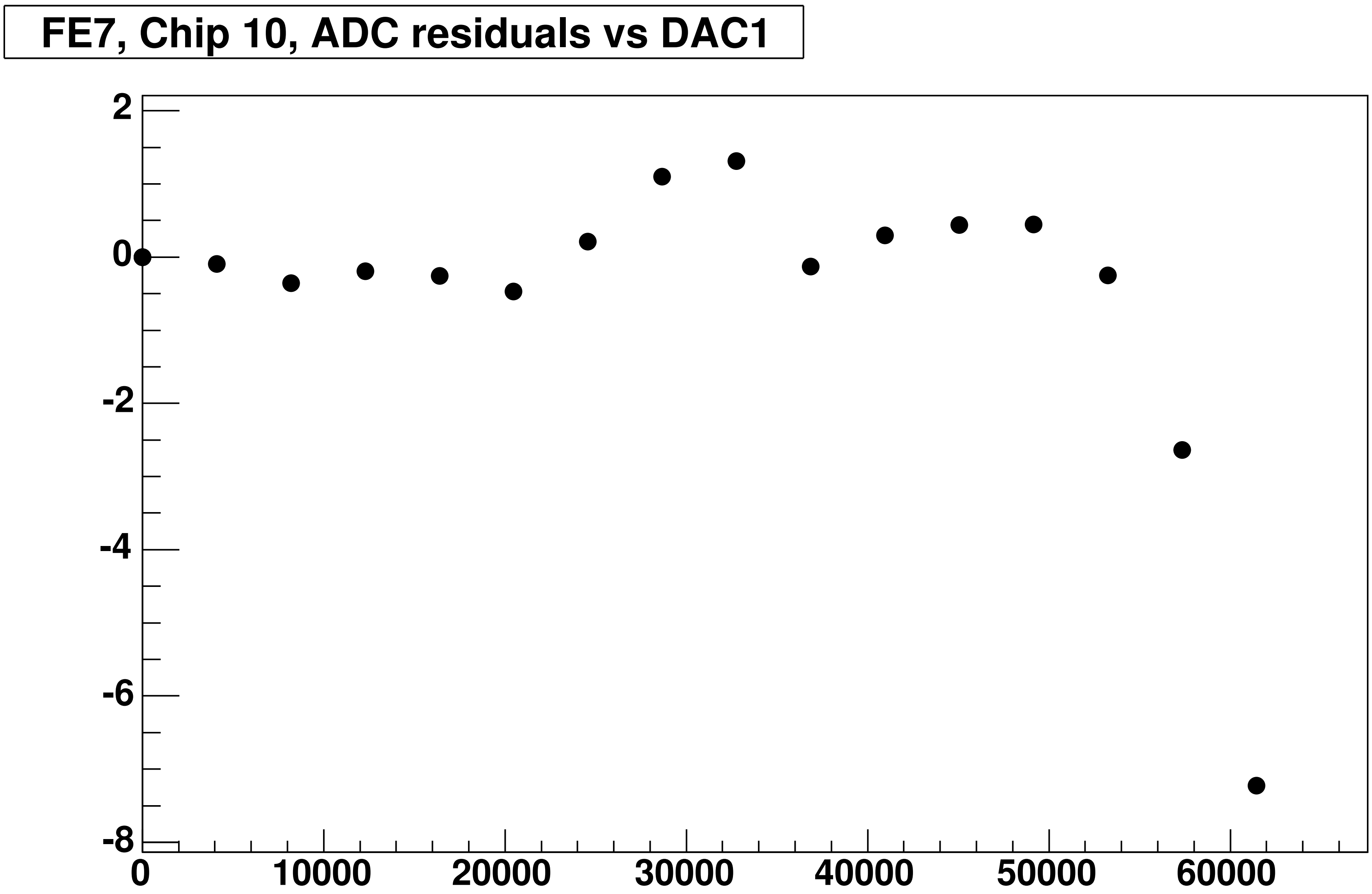


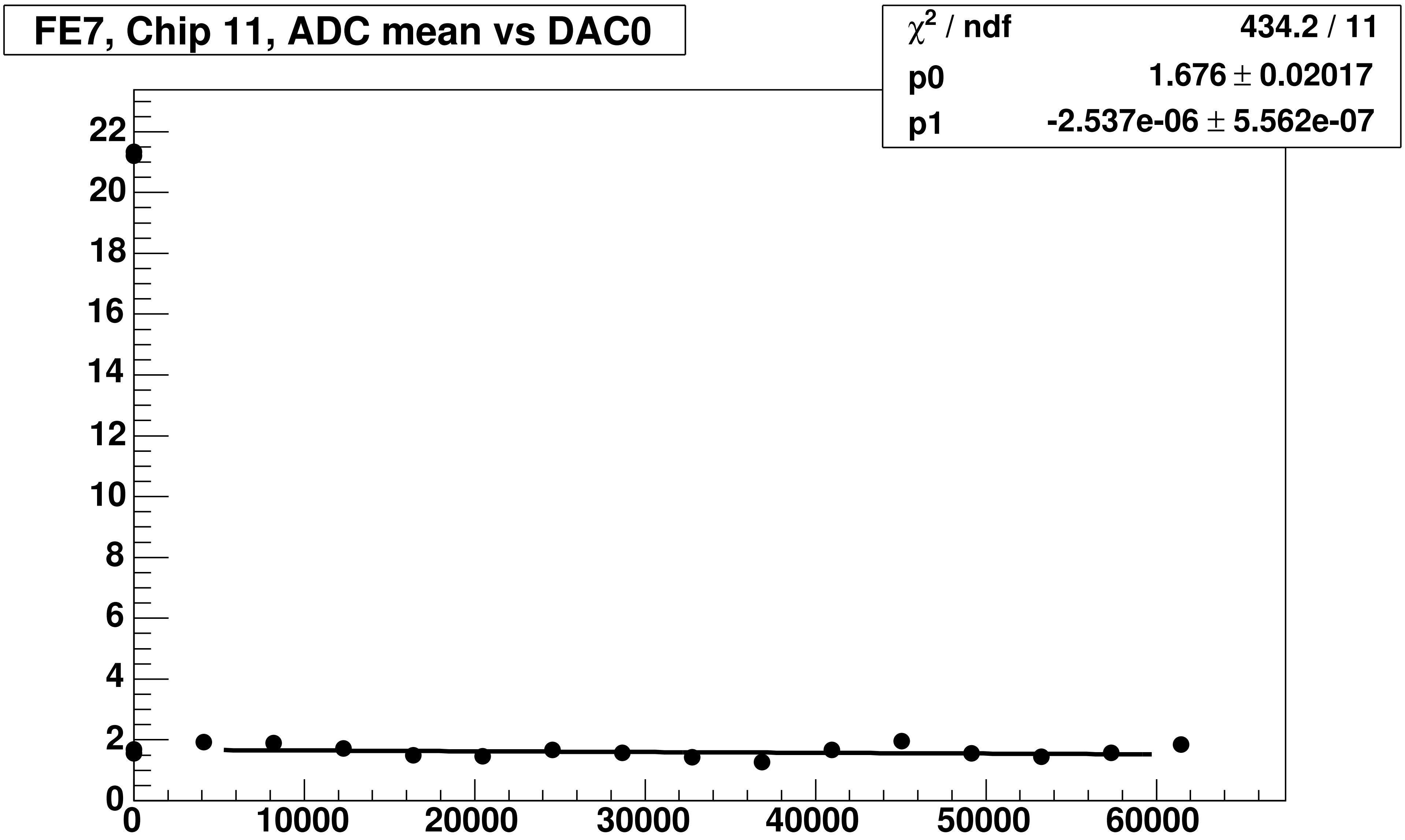
FE7, Chip 10, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

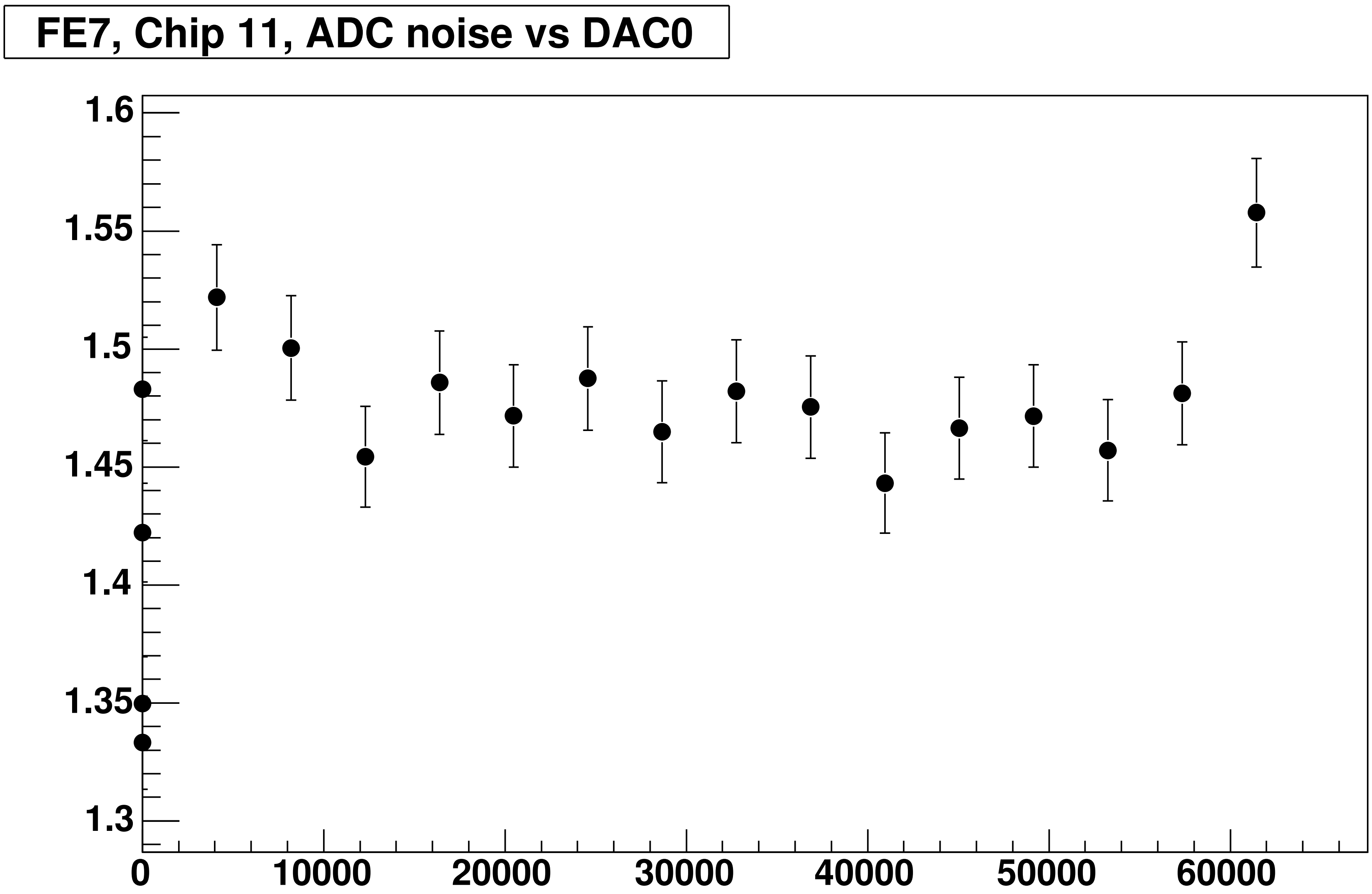

FE7, Chip 10, ADC mean vs DAC1
χ^2 / ndf 6101 / 11
p0 -2.17 ± 0.02076
p1 0.4522 ± 6.721e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



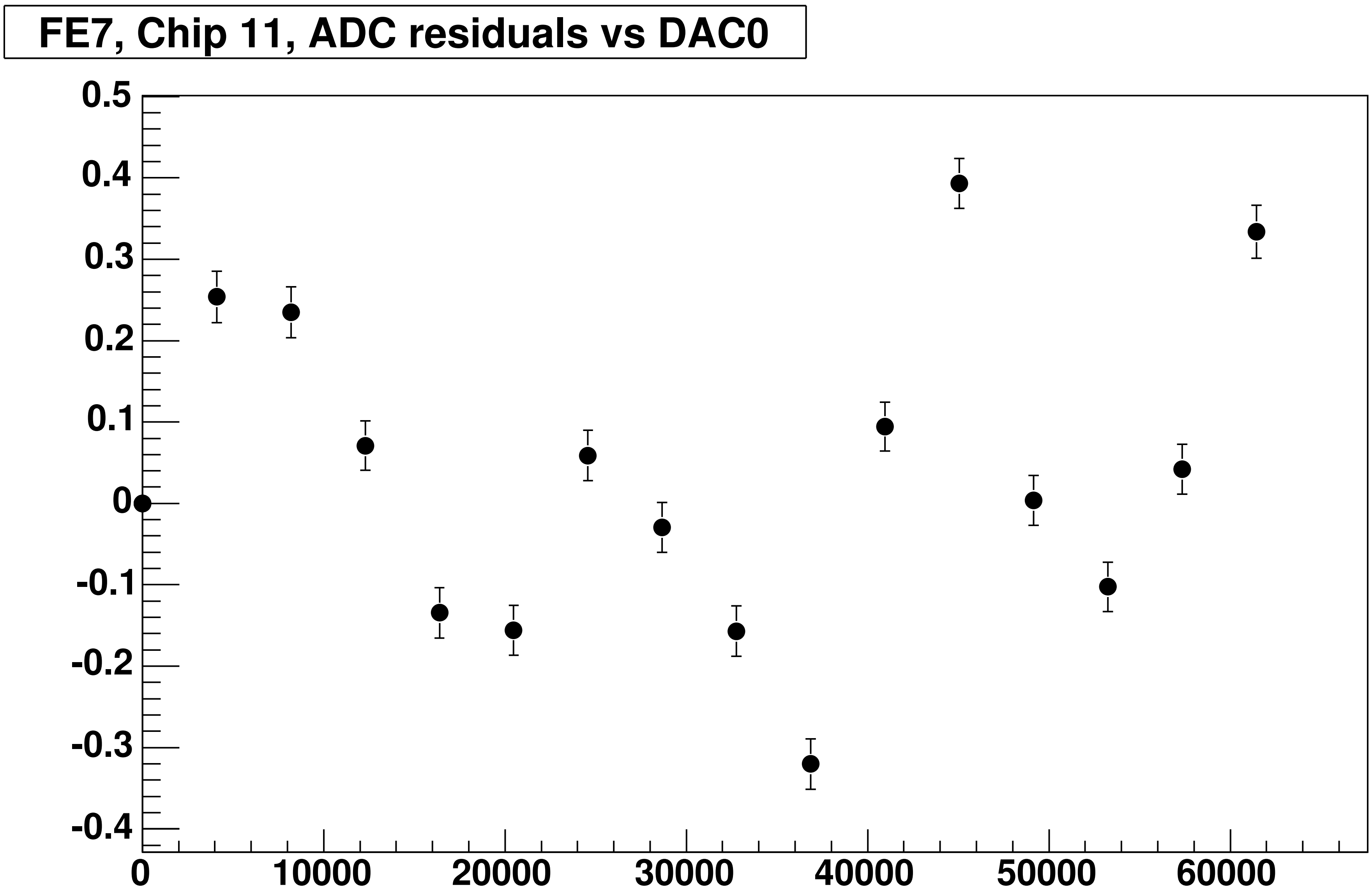
FE7, Chip 10, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

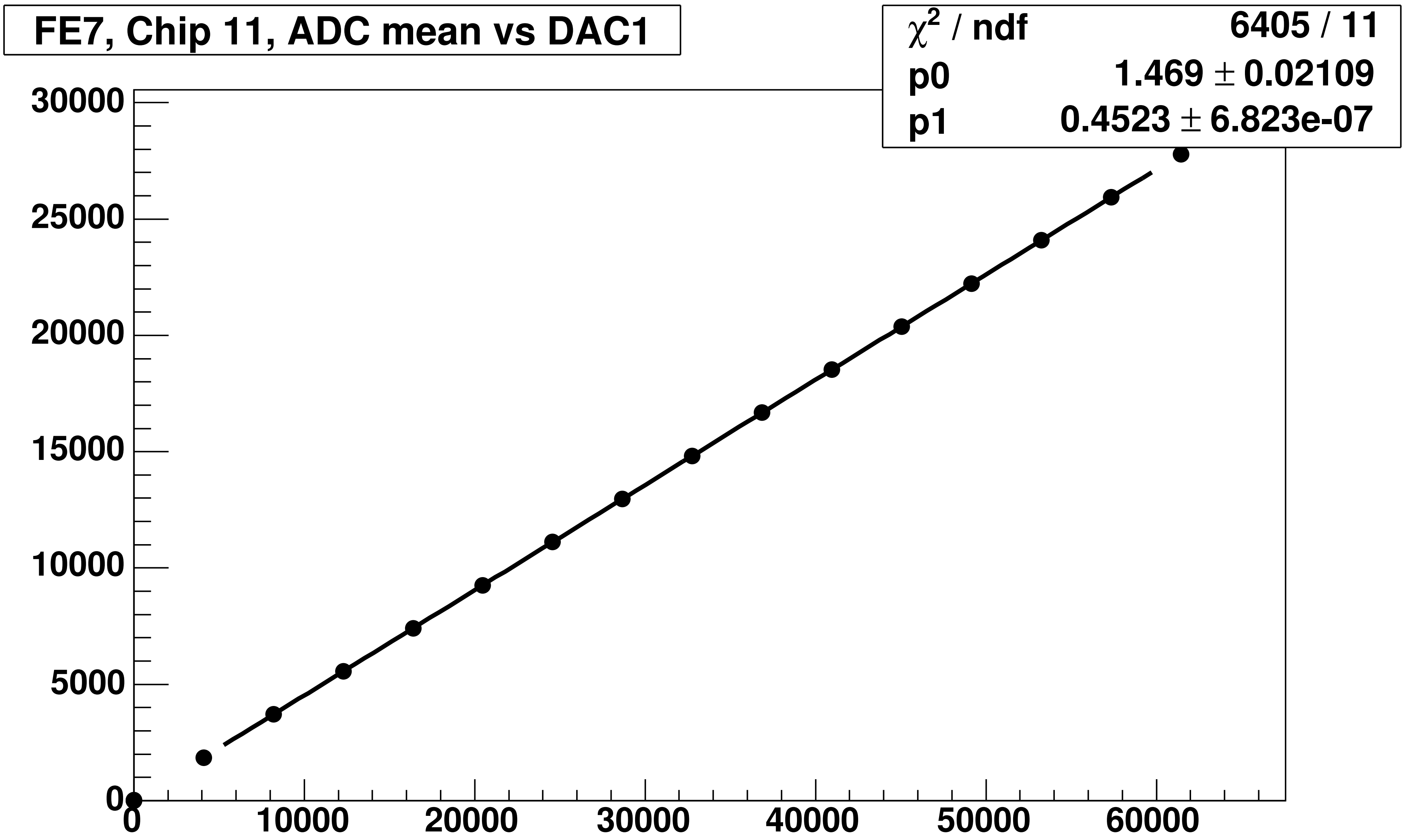

FE7, Chip 10, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

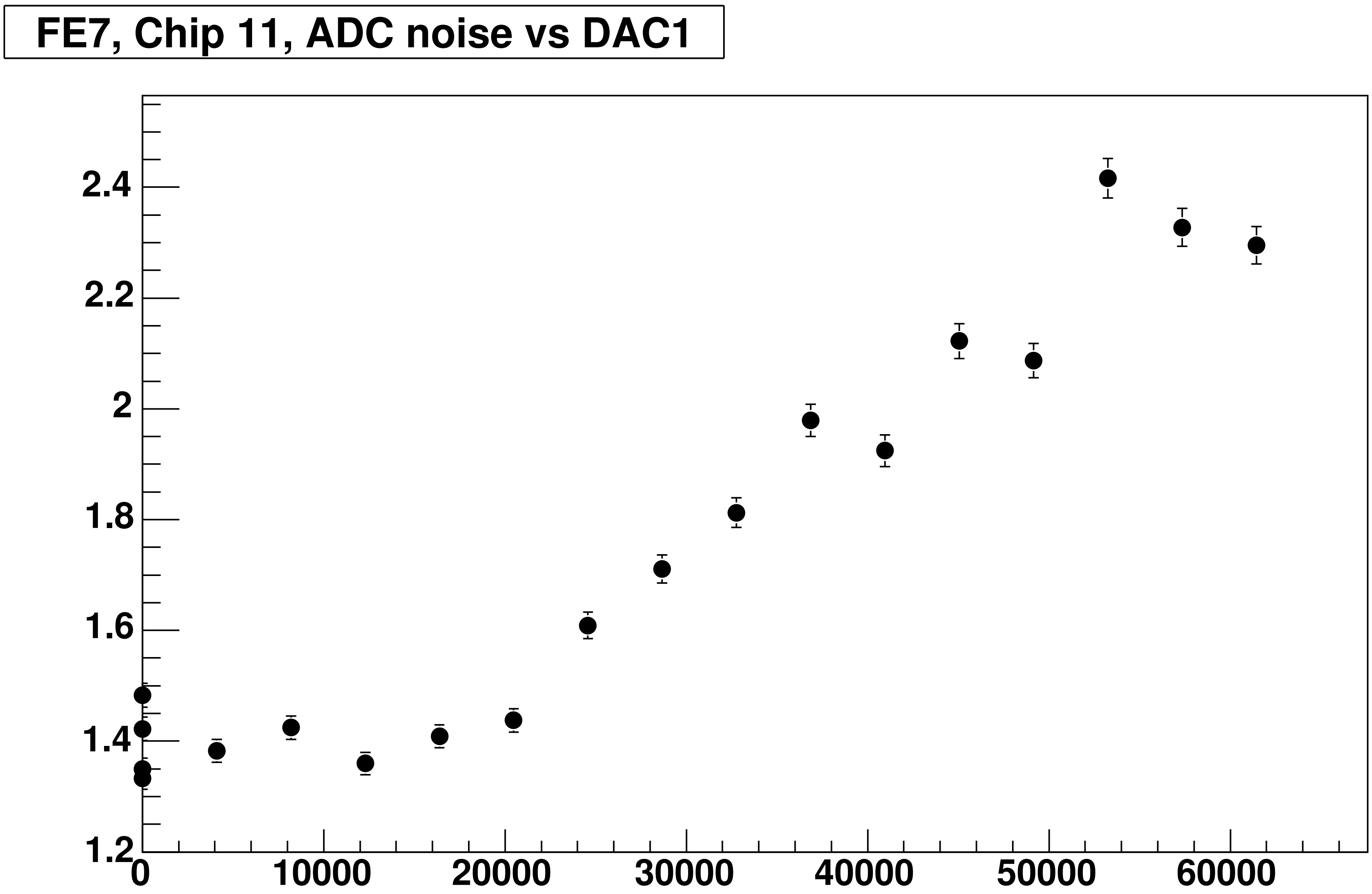

FE7, Chip 11, ADC mean vs DAC0
χ^2 / ndf 434.2 / 11
p0 1.676 ± 0.02017
p1 -2.537e-06 ± 5.562e-07
0
2
4
6
8
10
12
14
16
18
20
22
0
10000
20000
30000
40000
50000
60000

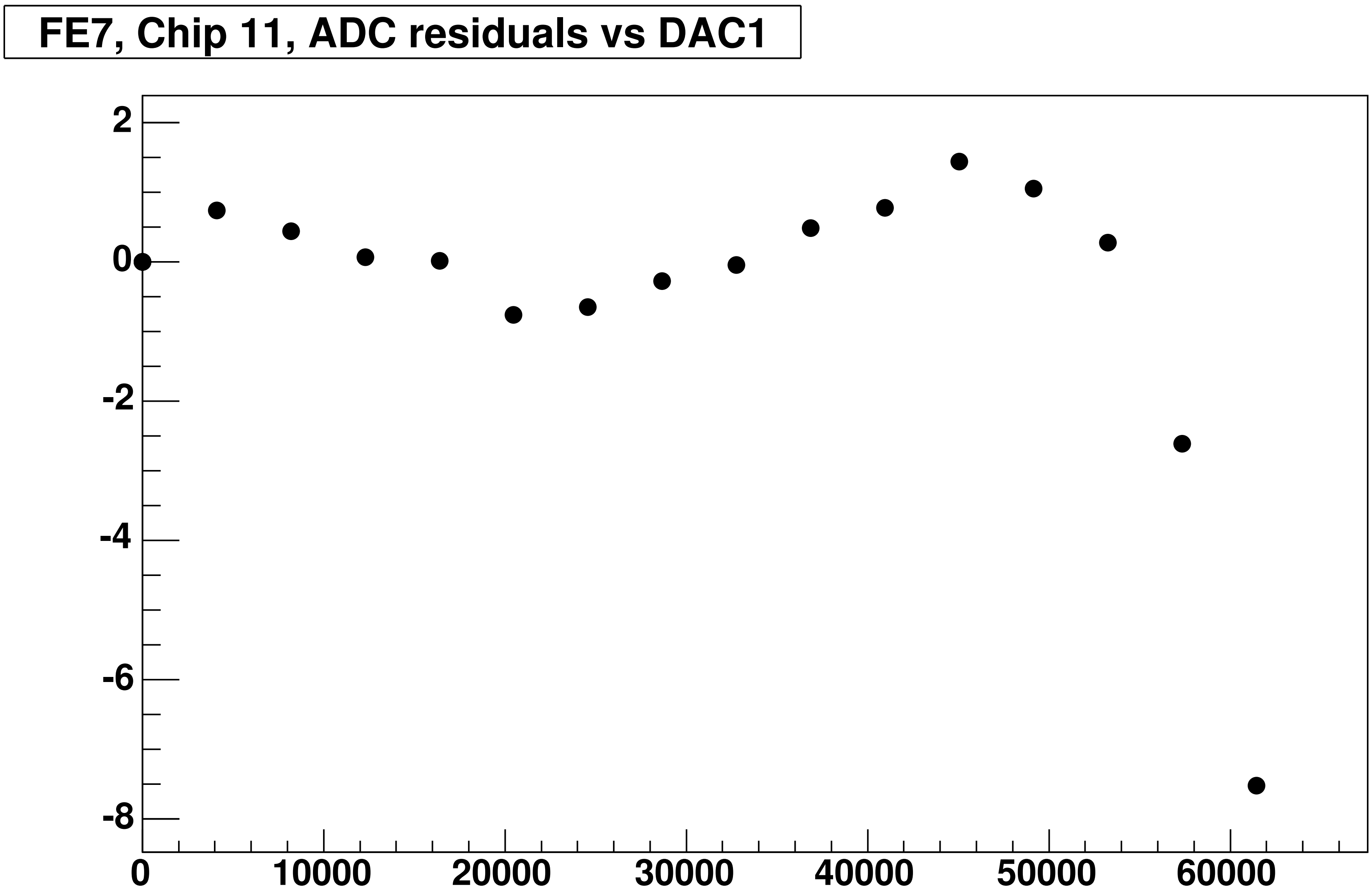


FE7, Chip 11, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

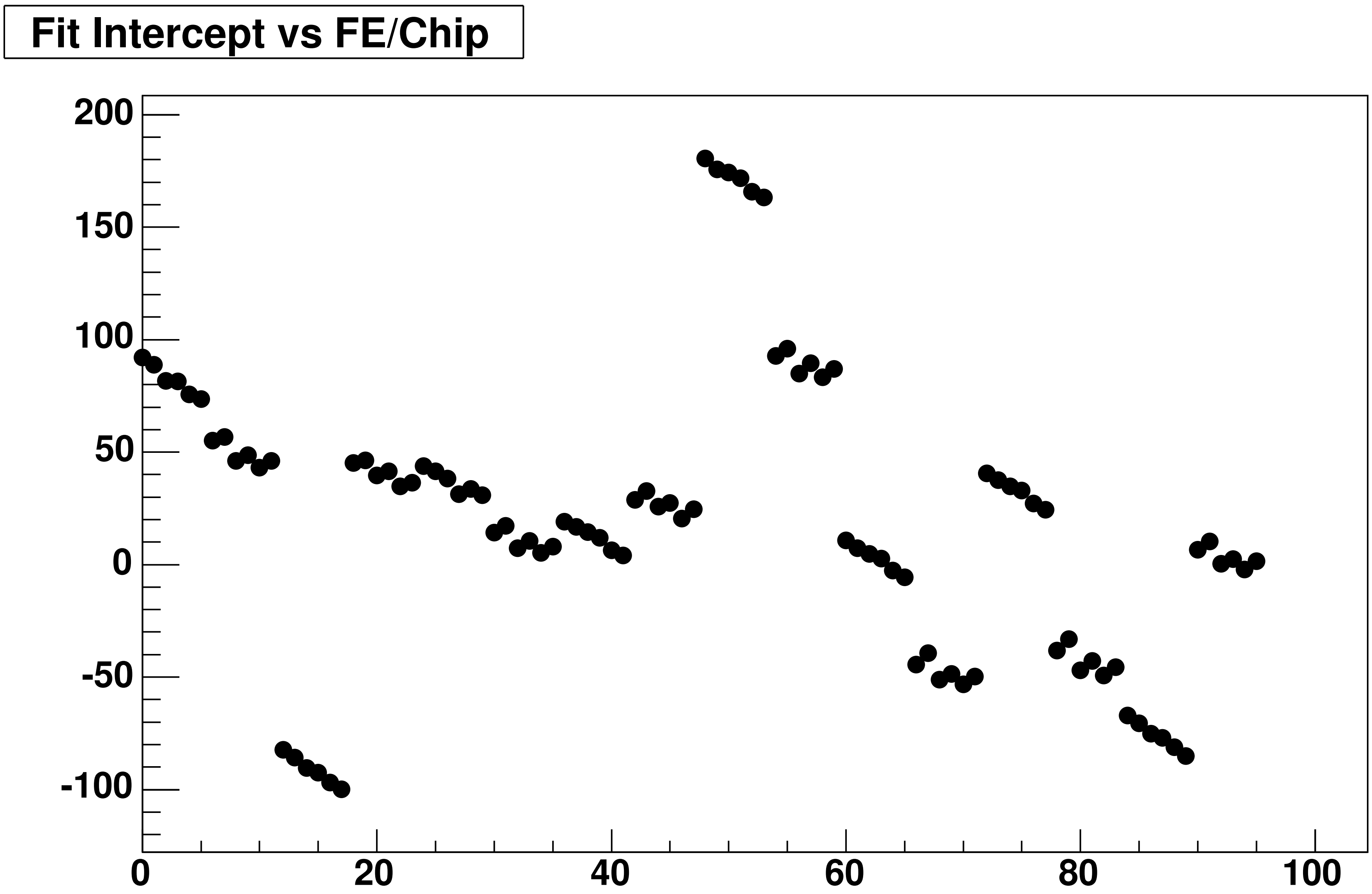

FE7, Chip 11, ADC residuals vs DAC0
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

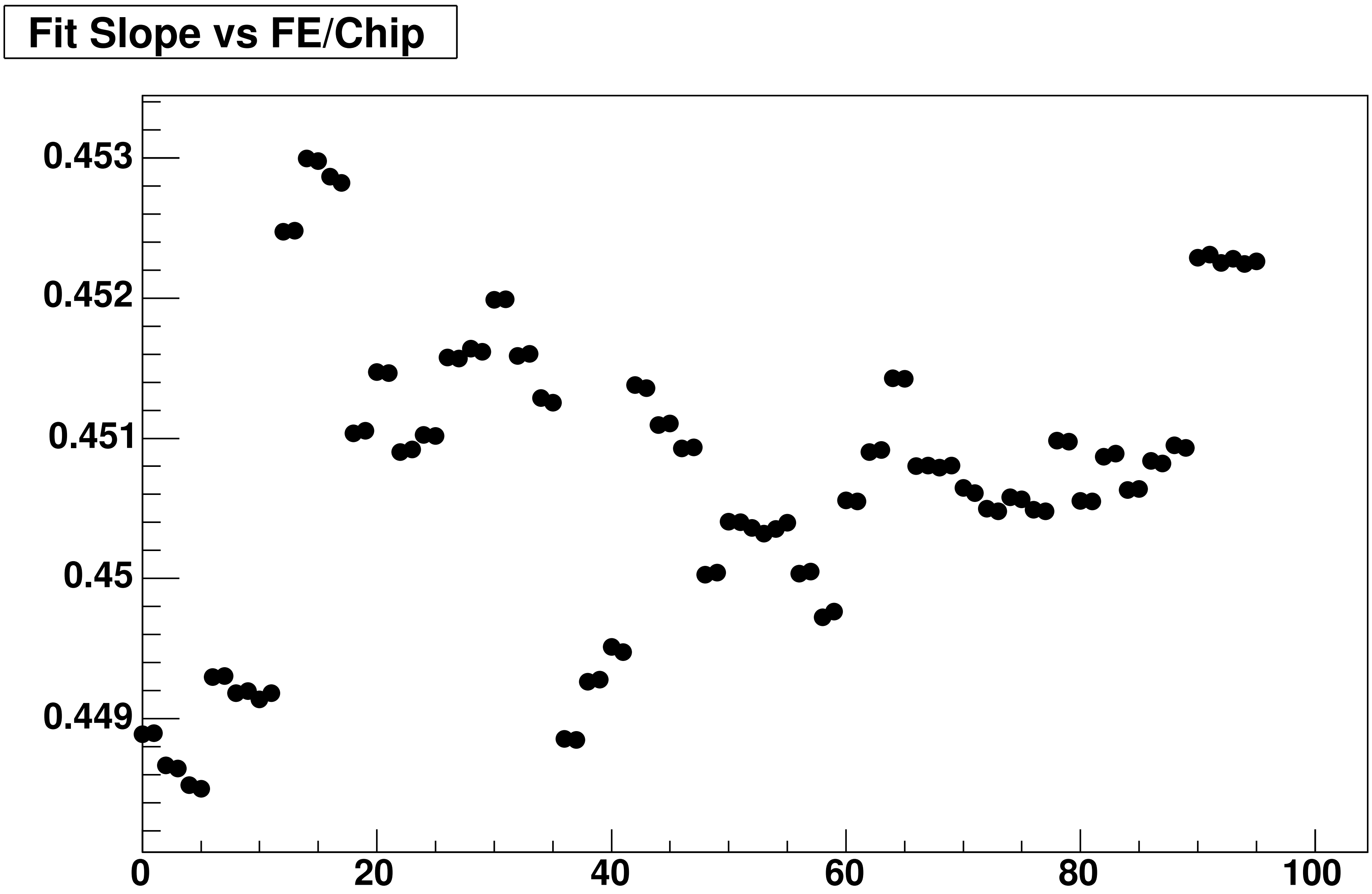

FE7, Chip 11, ADC mean vs DAC1
χ^2 / ndf 6405 / 11
p0 1.469 ± 0.02109
p1 0.4523 ± 6.823e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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



FE7, Chip 11, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000


Fit Intercept vs FE/Chip
200
150
100
50
0
-50
-100
0
20
40
60
80
100



Fit Slope vs FE/Chip
0.453
0.452
0.451
0.45
0.449
0
20
40
60
80
100