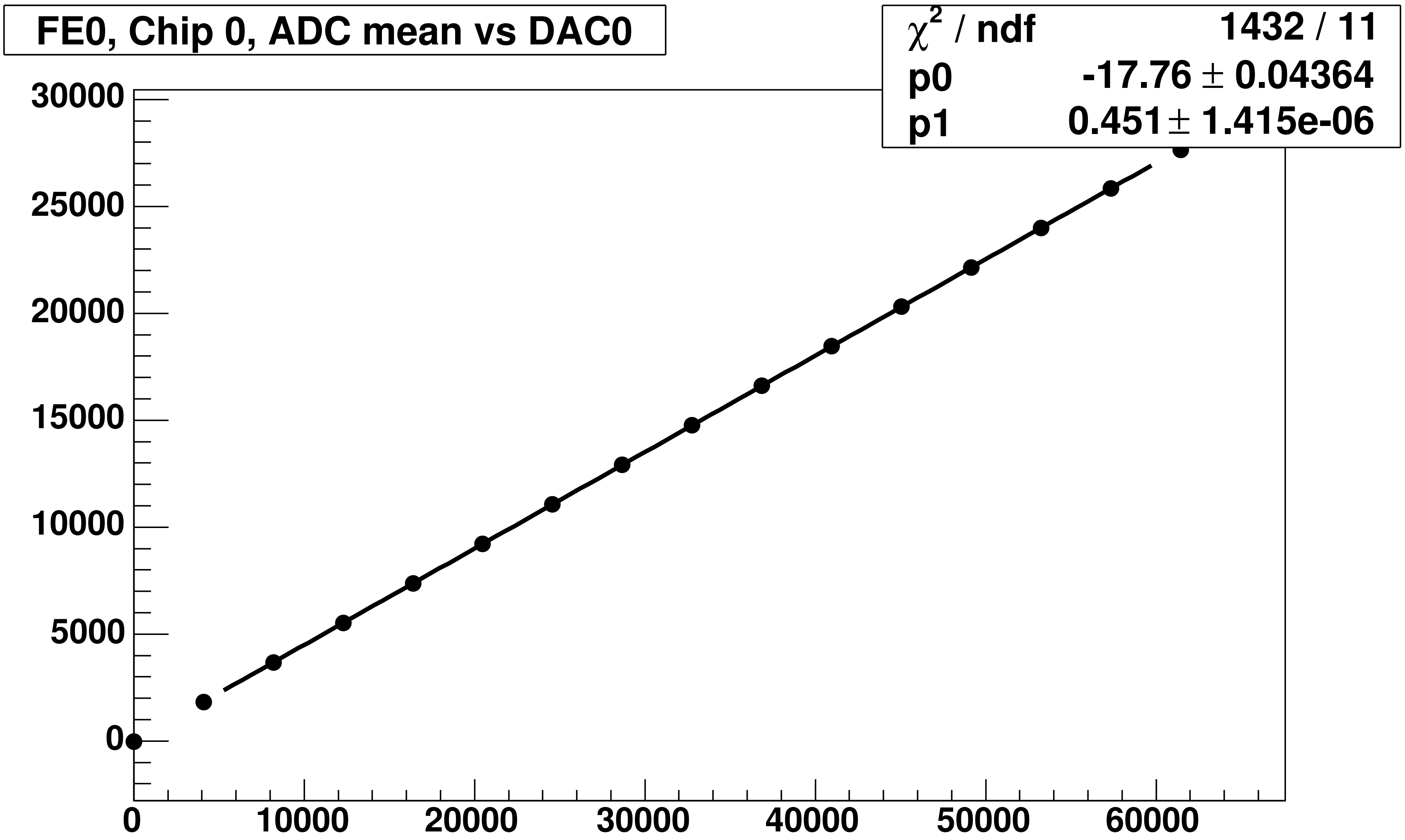
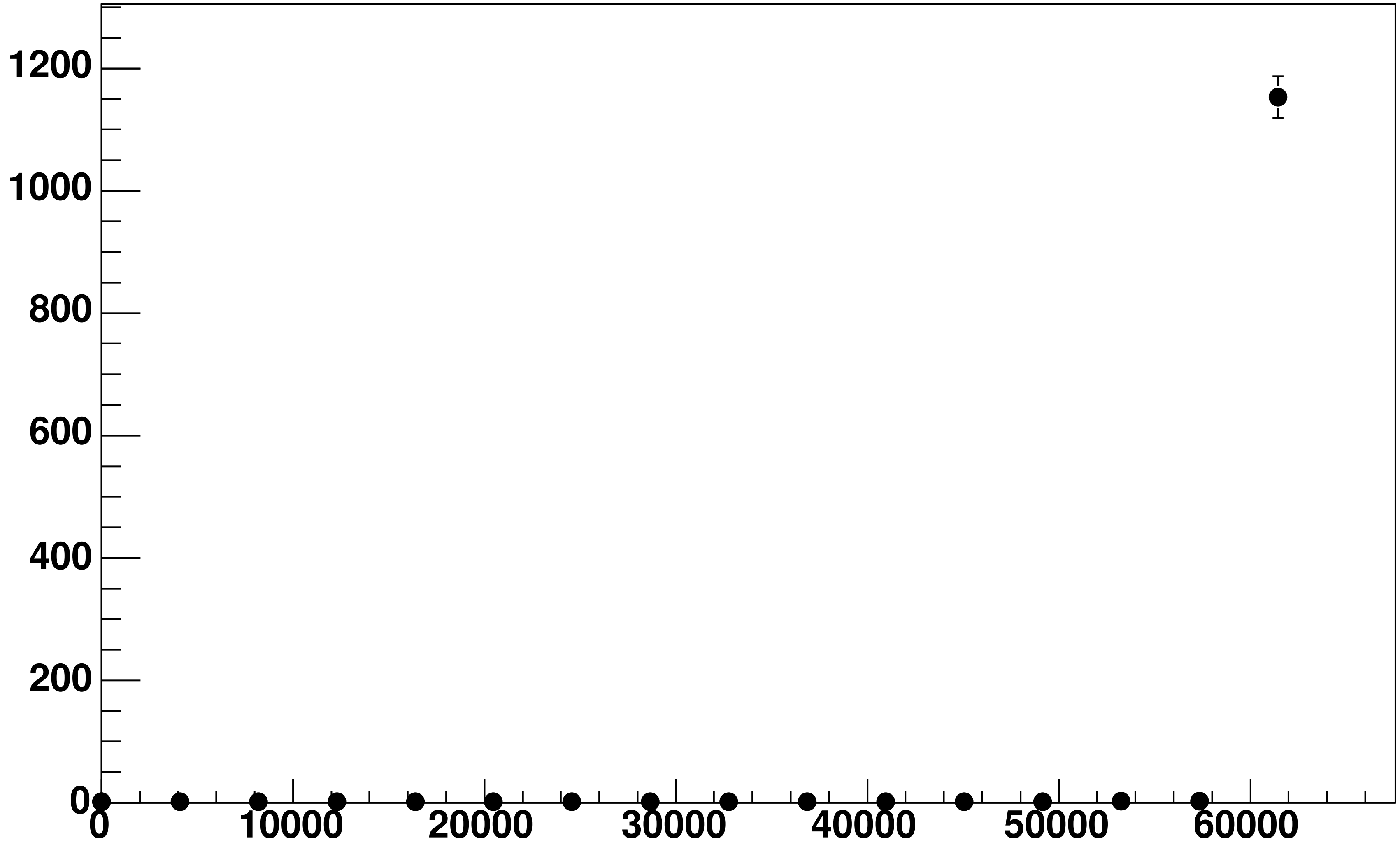
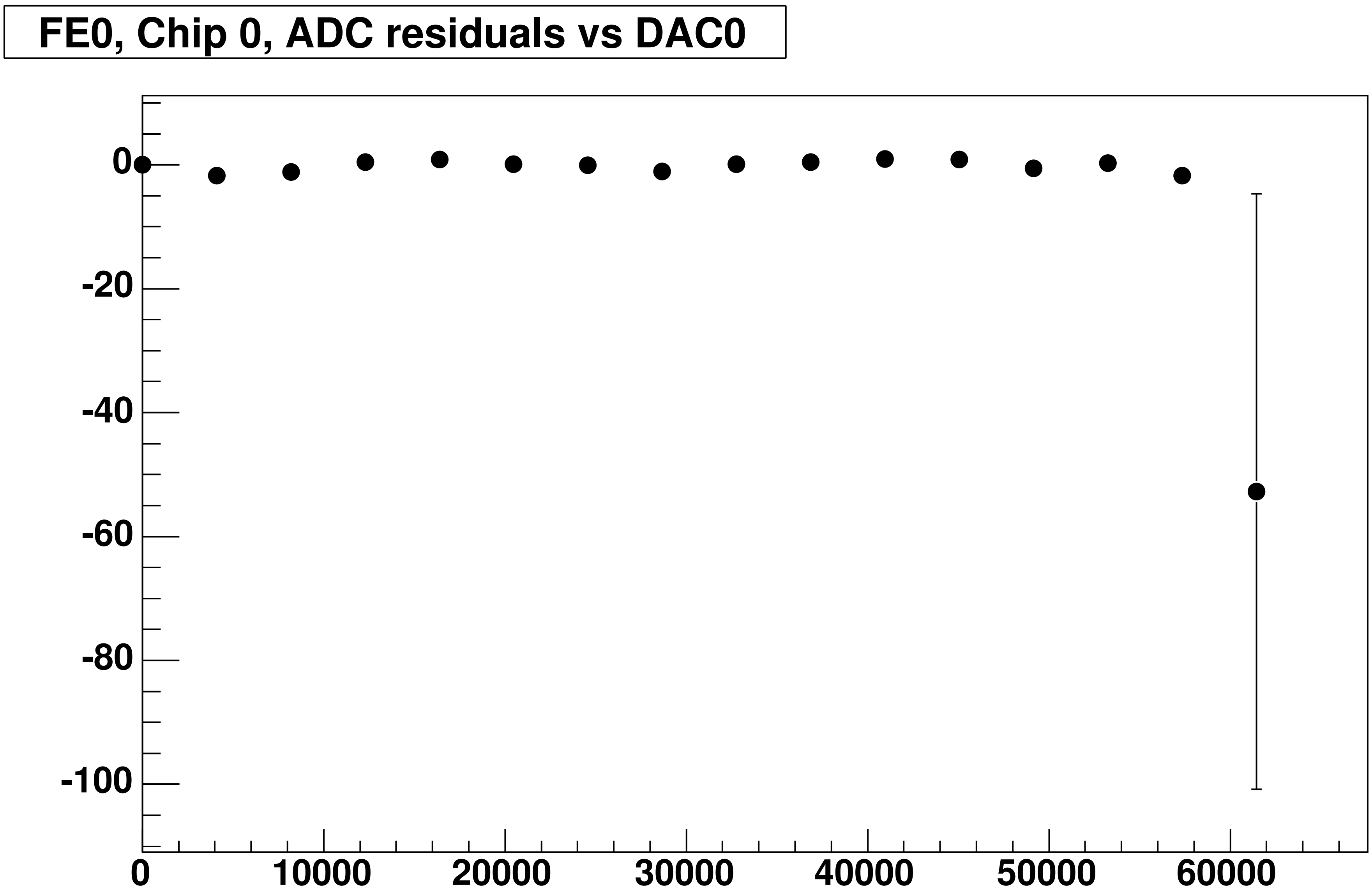
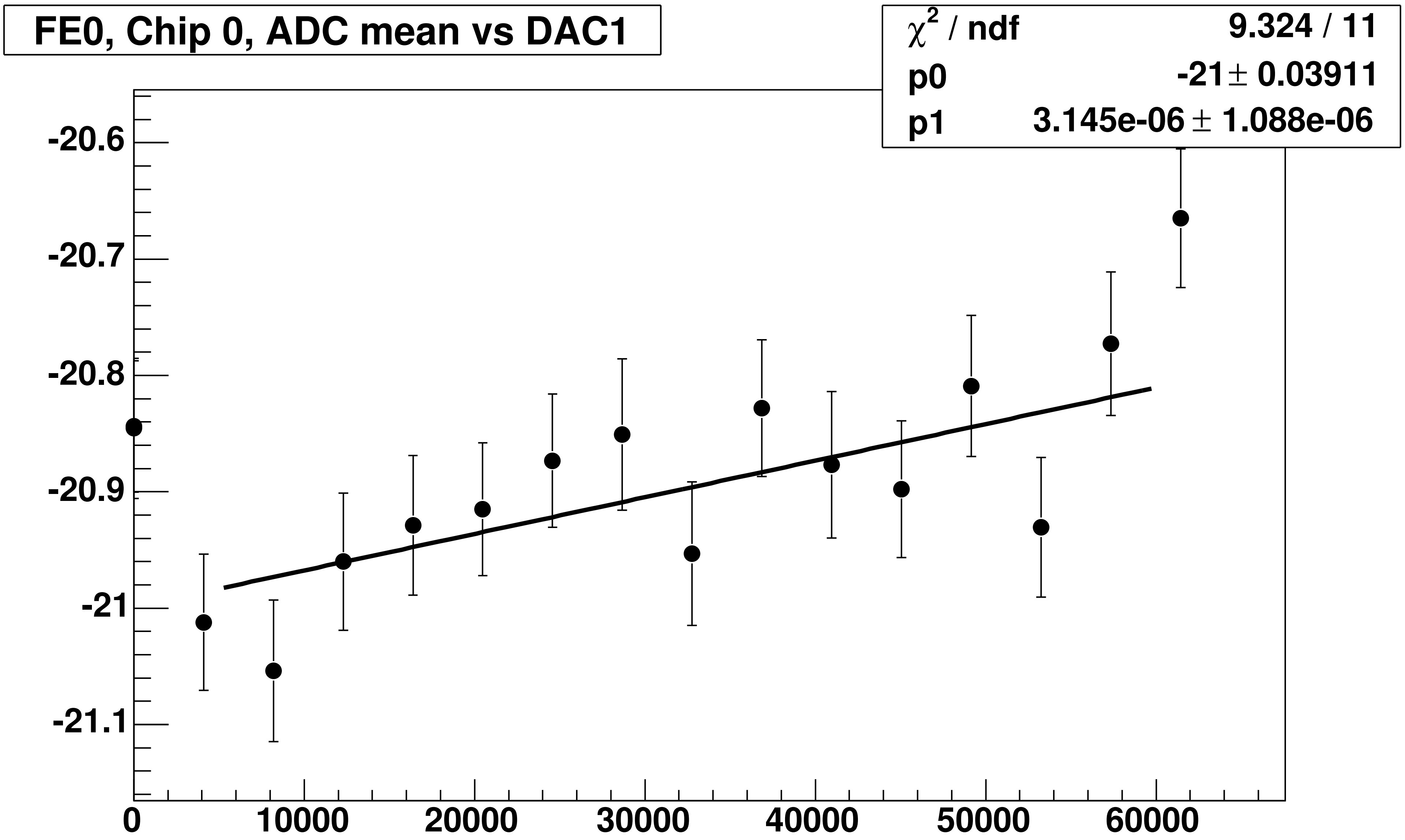


FE0, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1432 / 11
p0 -17.76 ± 0.04364
p1 0.451 ± 1.415e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

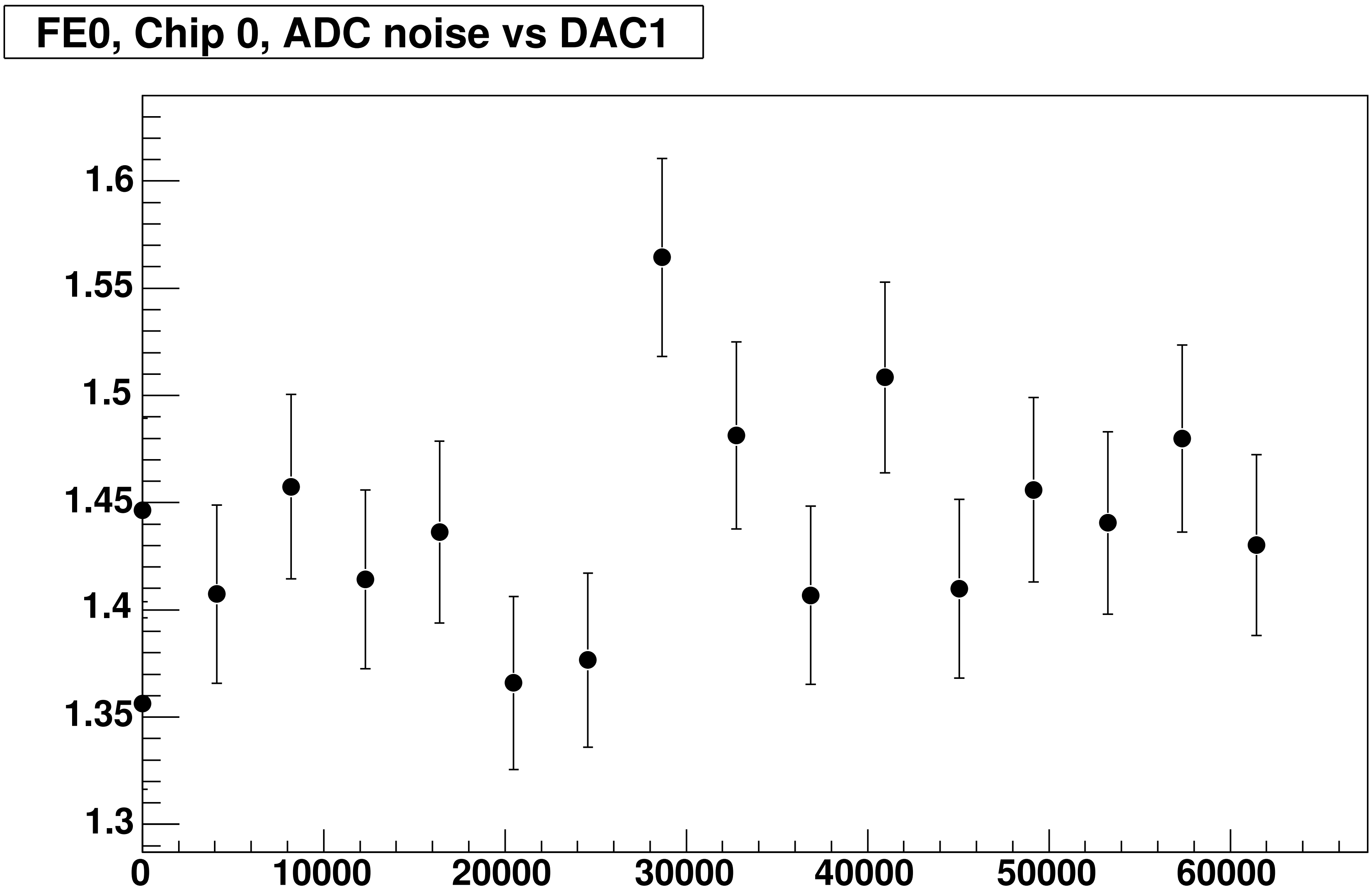
FE0, Chip 0, ADC noise vs DAC0



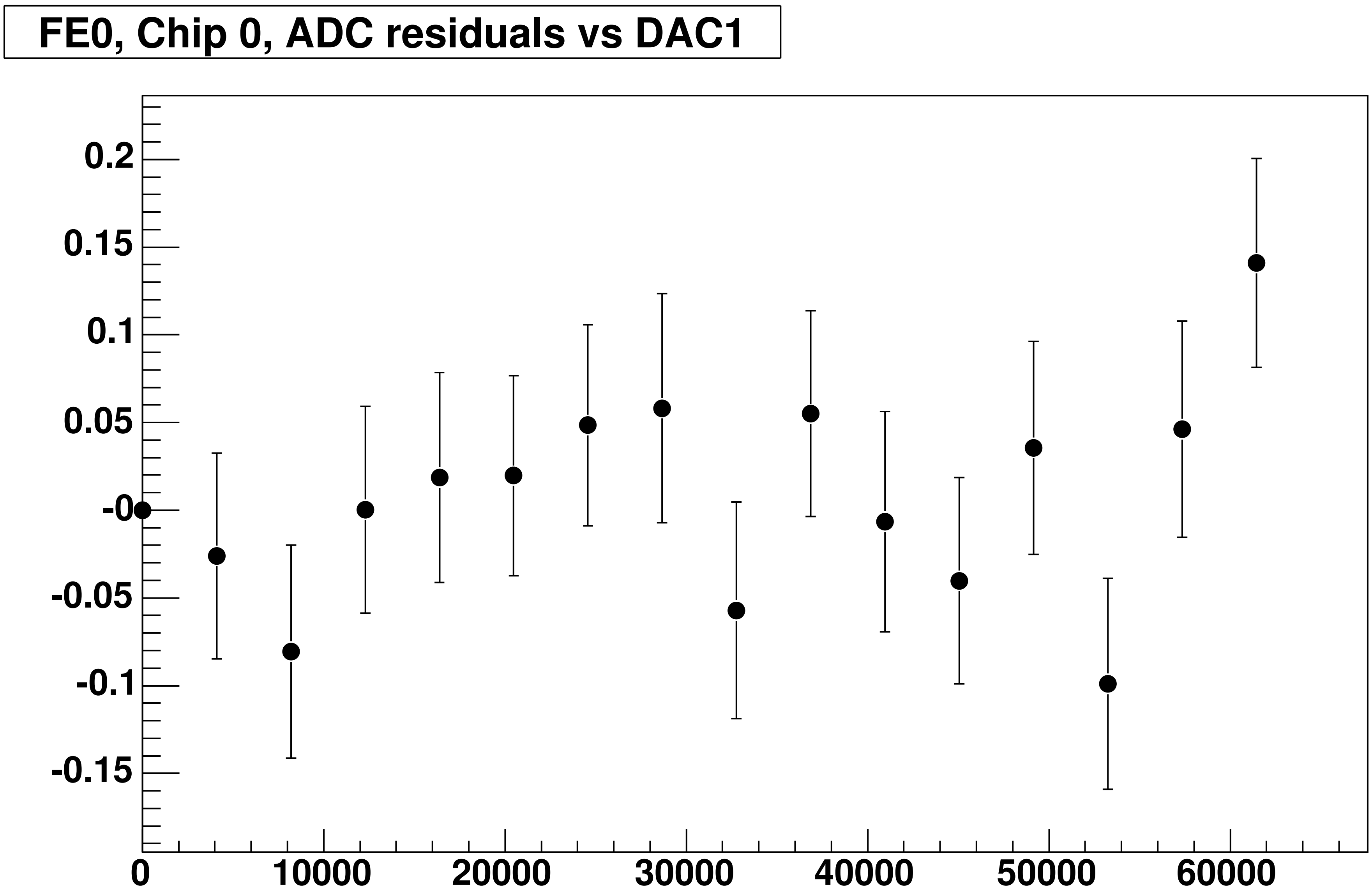

FE0, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

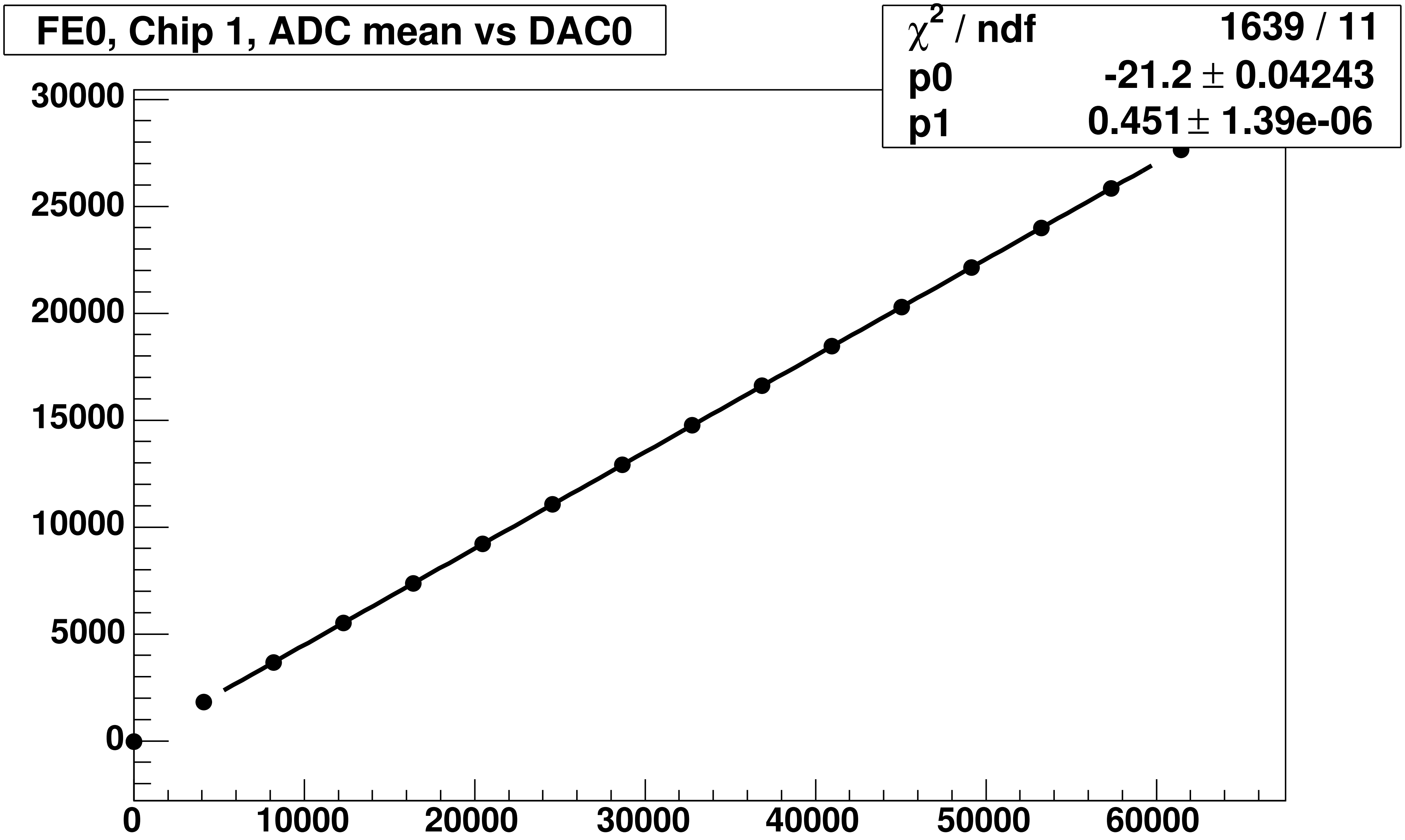


FE0, Chip 0, ADC mean vs DAC1
χ^2 / ndf 9.324 / 11
p0 -21 ± 0.03911
p1 3.145e-06 ± 1.088e-06
-20.6
-20.7
-20.8
-20.9
-21
-21.1
0
10000
20000
30000
40000
50000
60000



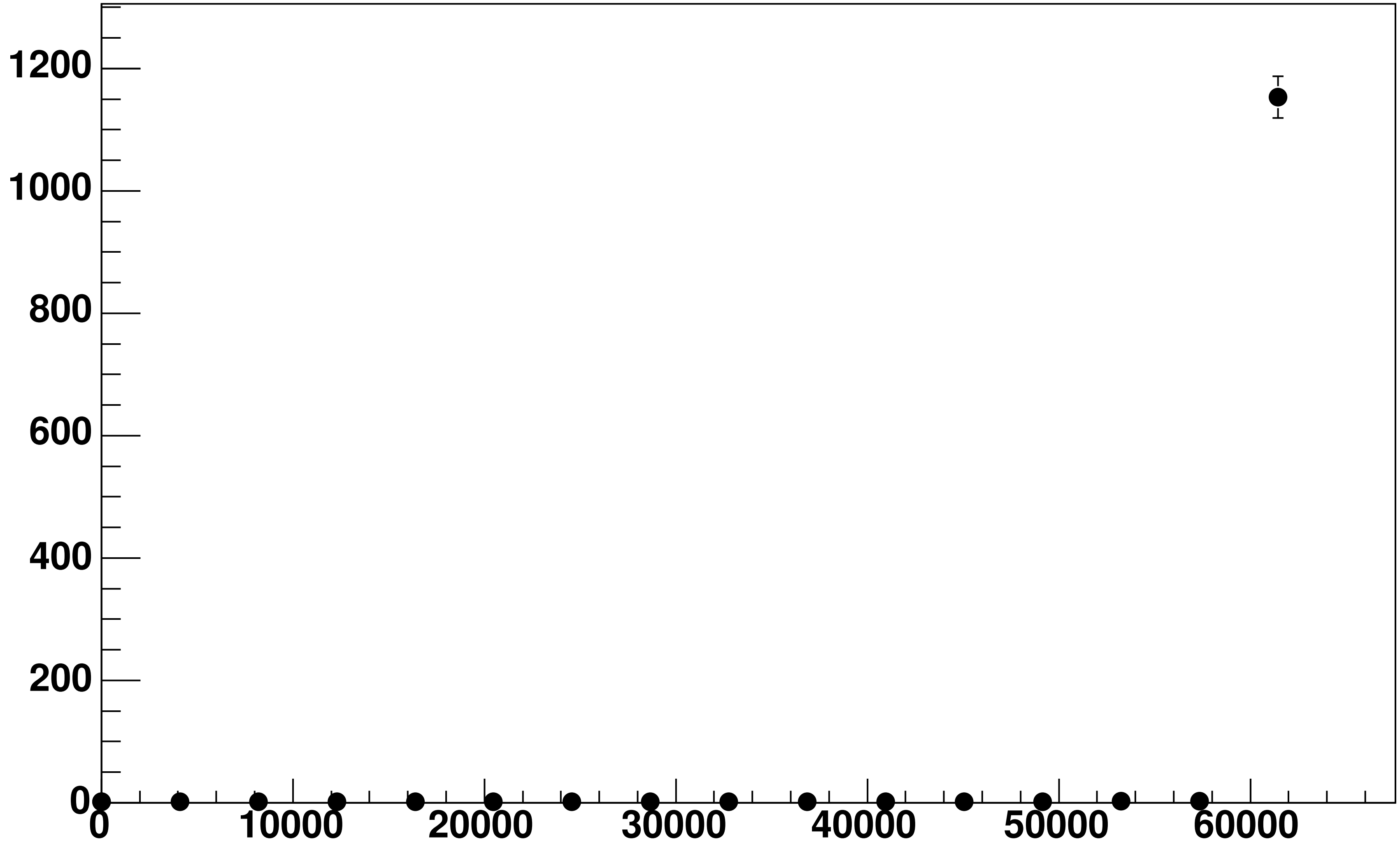
FE0, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

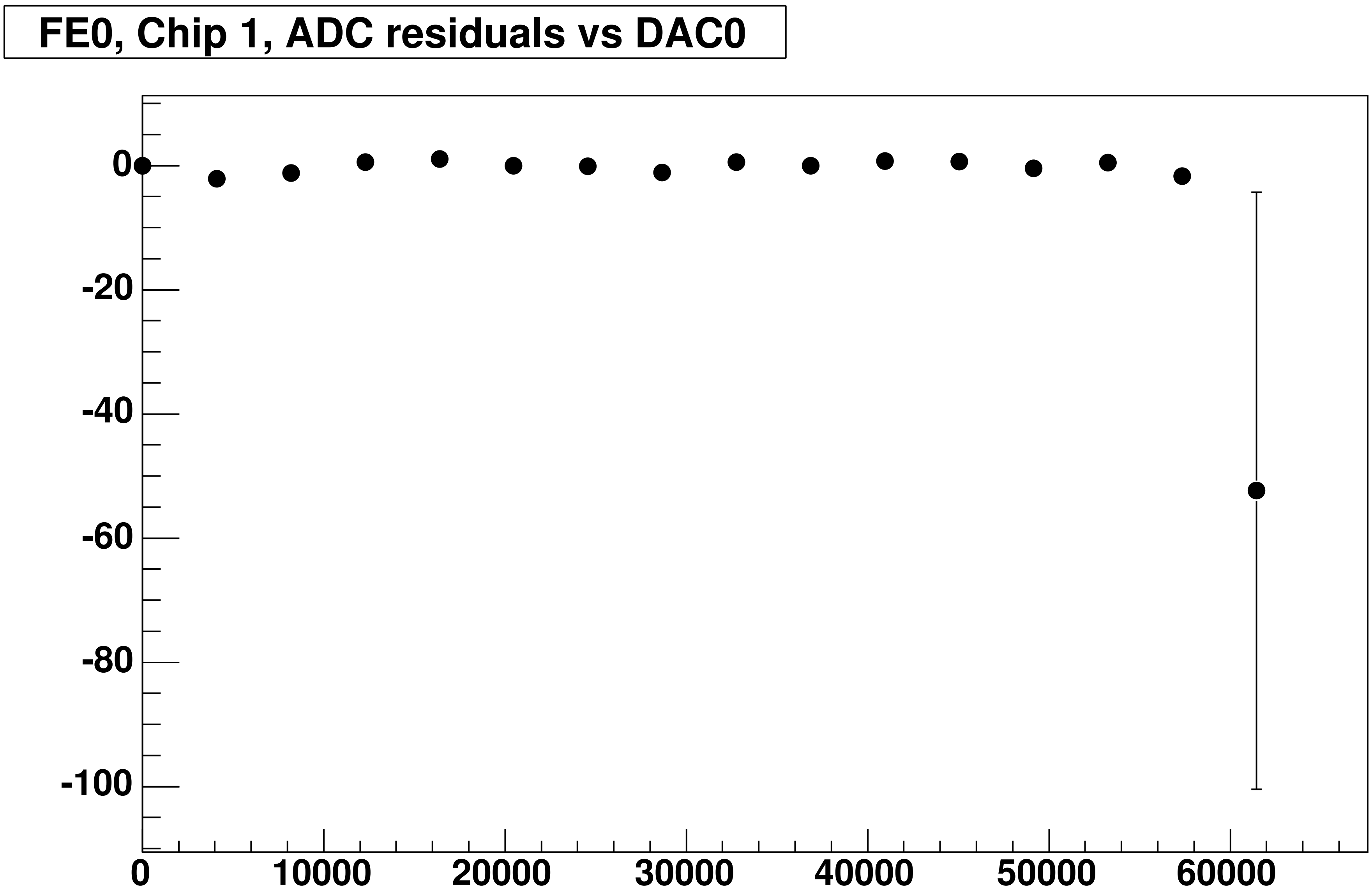

FE0, Chip 0, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

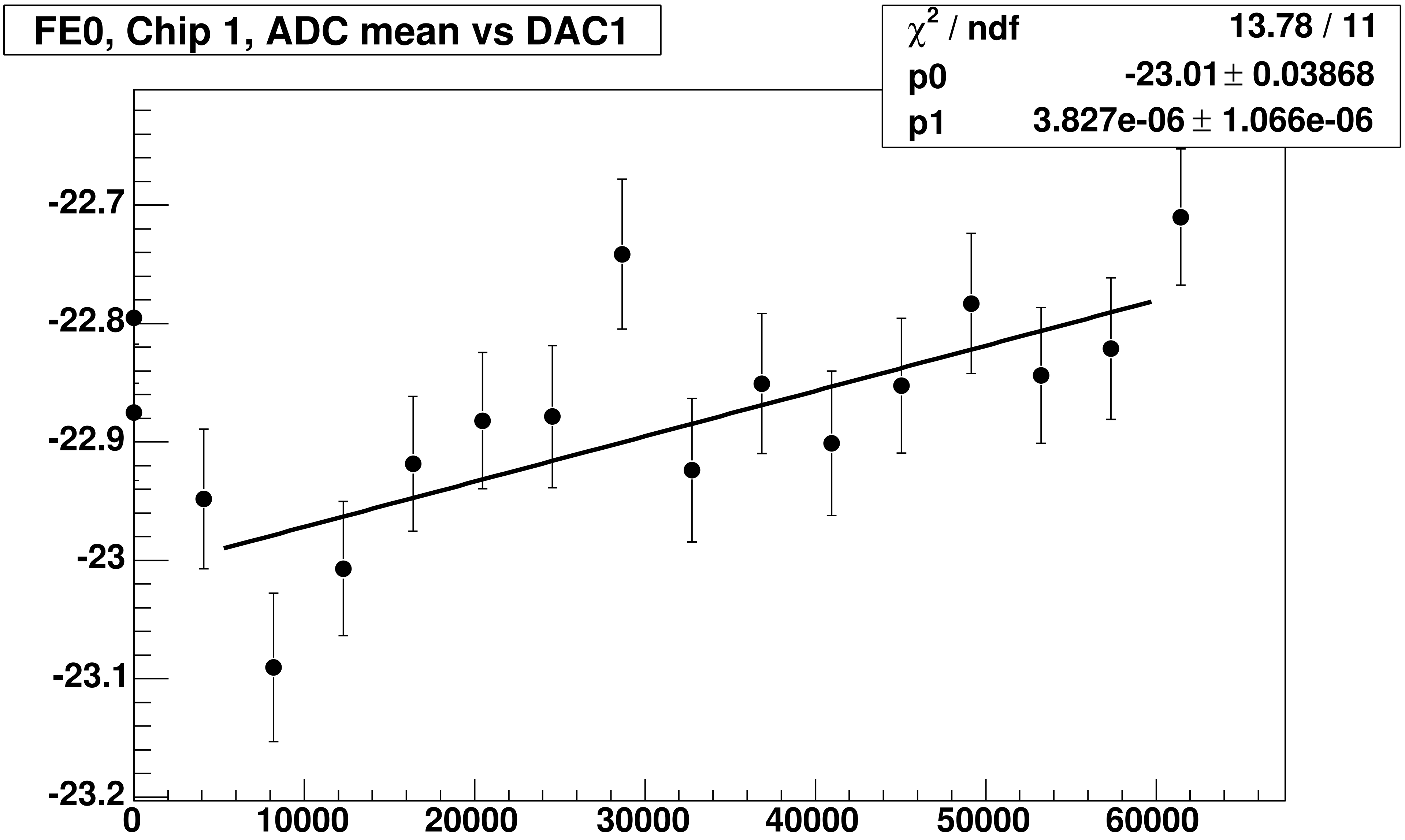


FE0, Chip 1, ADC mean vs DAC0
χ² / ndf 1639 / 11
p0 -21.2 ± 0.04243
p1 0.451 ± 1.39e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

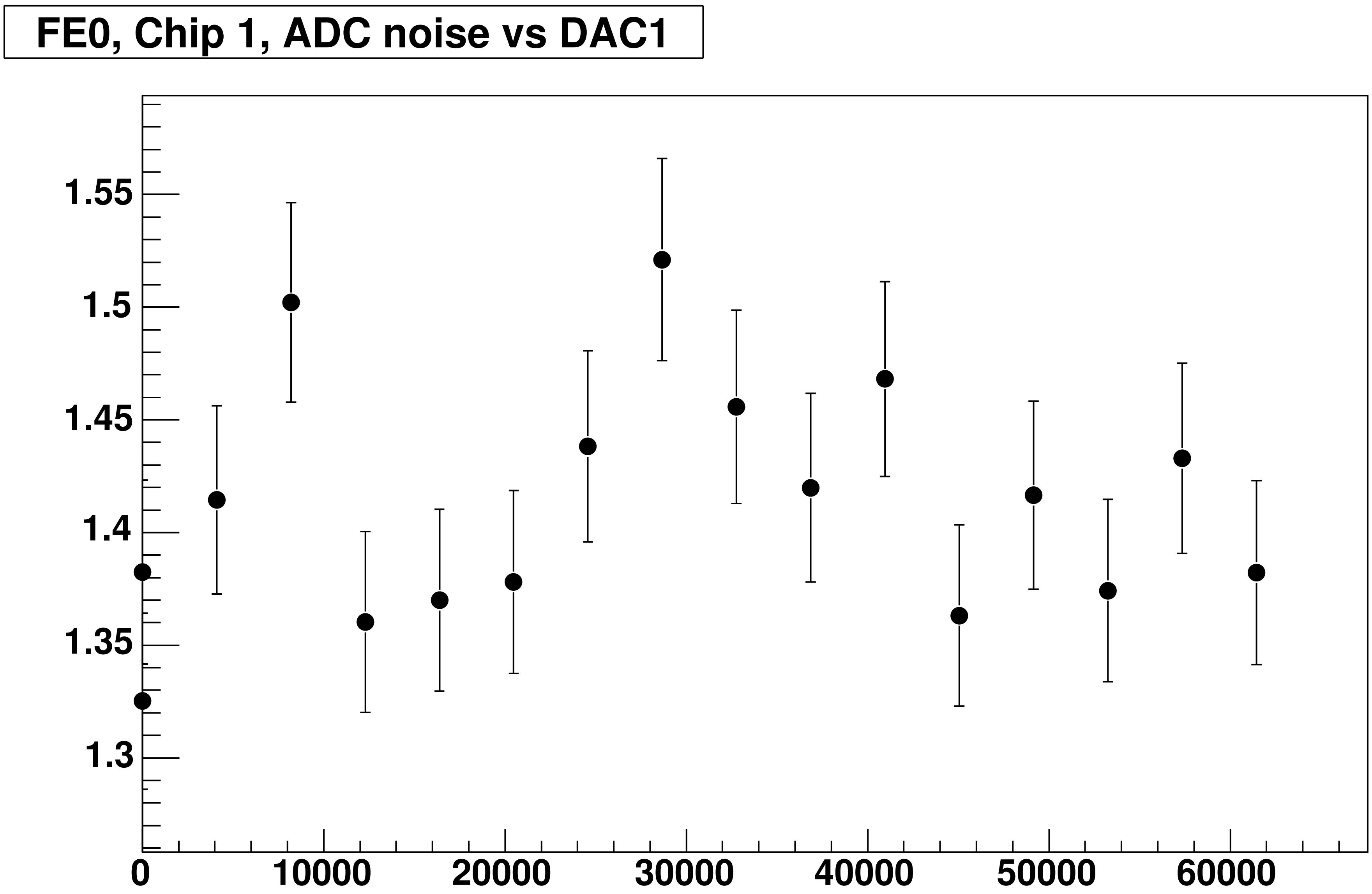
FE0, Chip 1, ADC noise vs DAC0

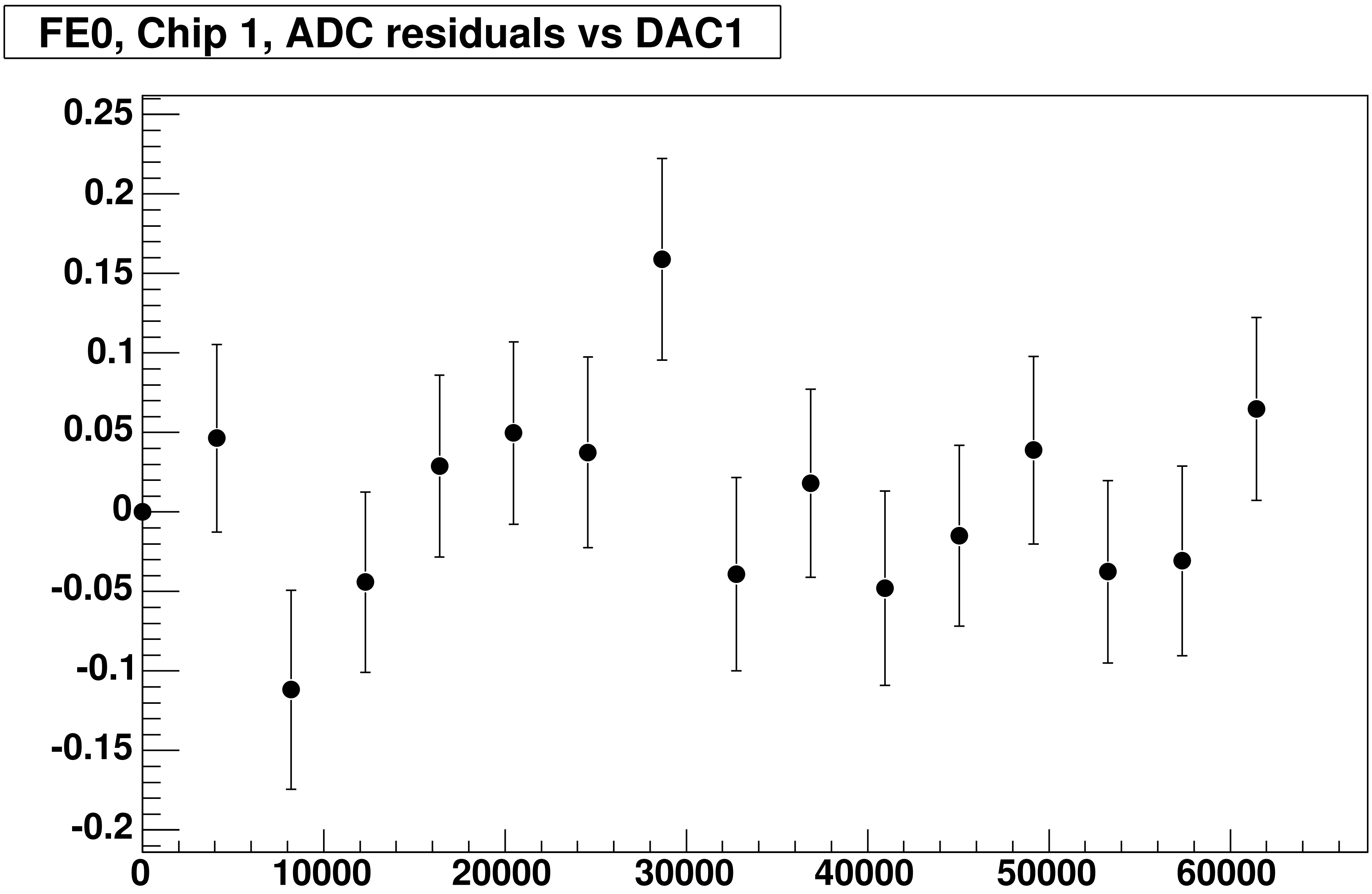



FE0, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

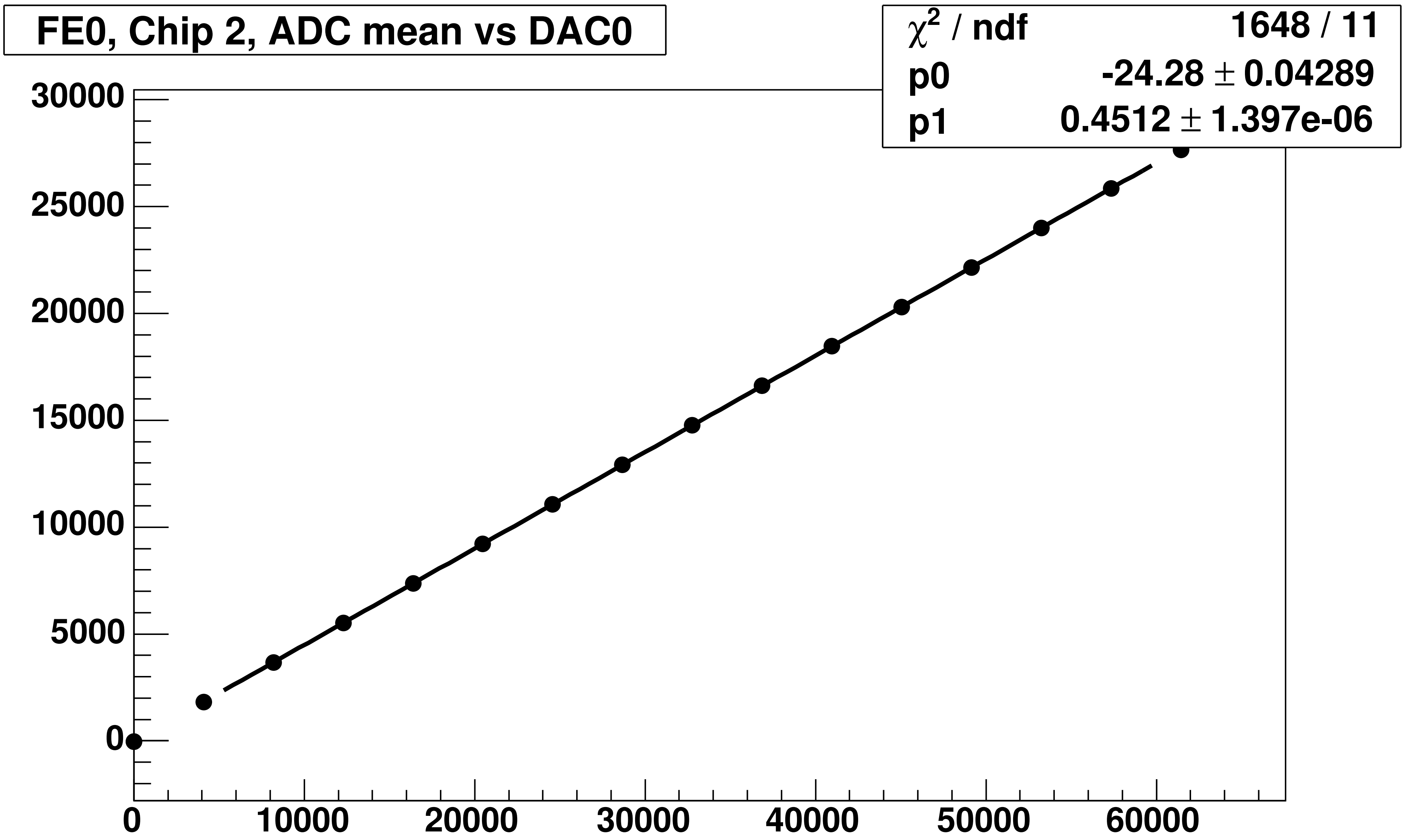


FE0, Chip 1, ADC mean vs DAC1
χ^2 / ndf 13.78 / 11
p0 -23.01 ± 0.03868
p1 3.827e-06 ± 1.066e-06
-22.7
-22.8
-22.9
-23
-23.1
-23.2
0
10000
20000
30000
40000
50000
60000

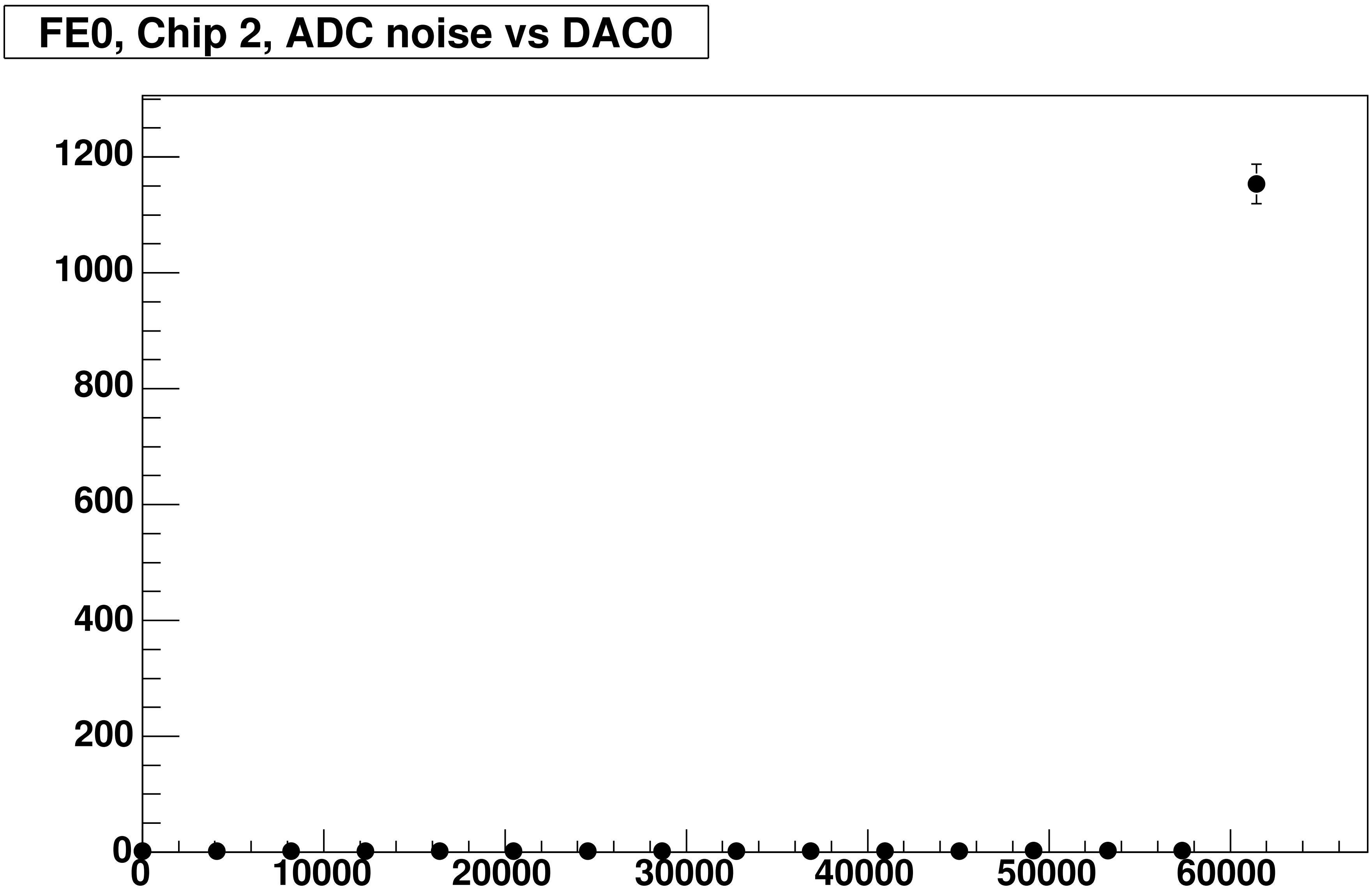

FE0, Chip 1, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



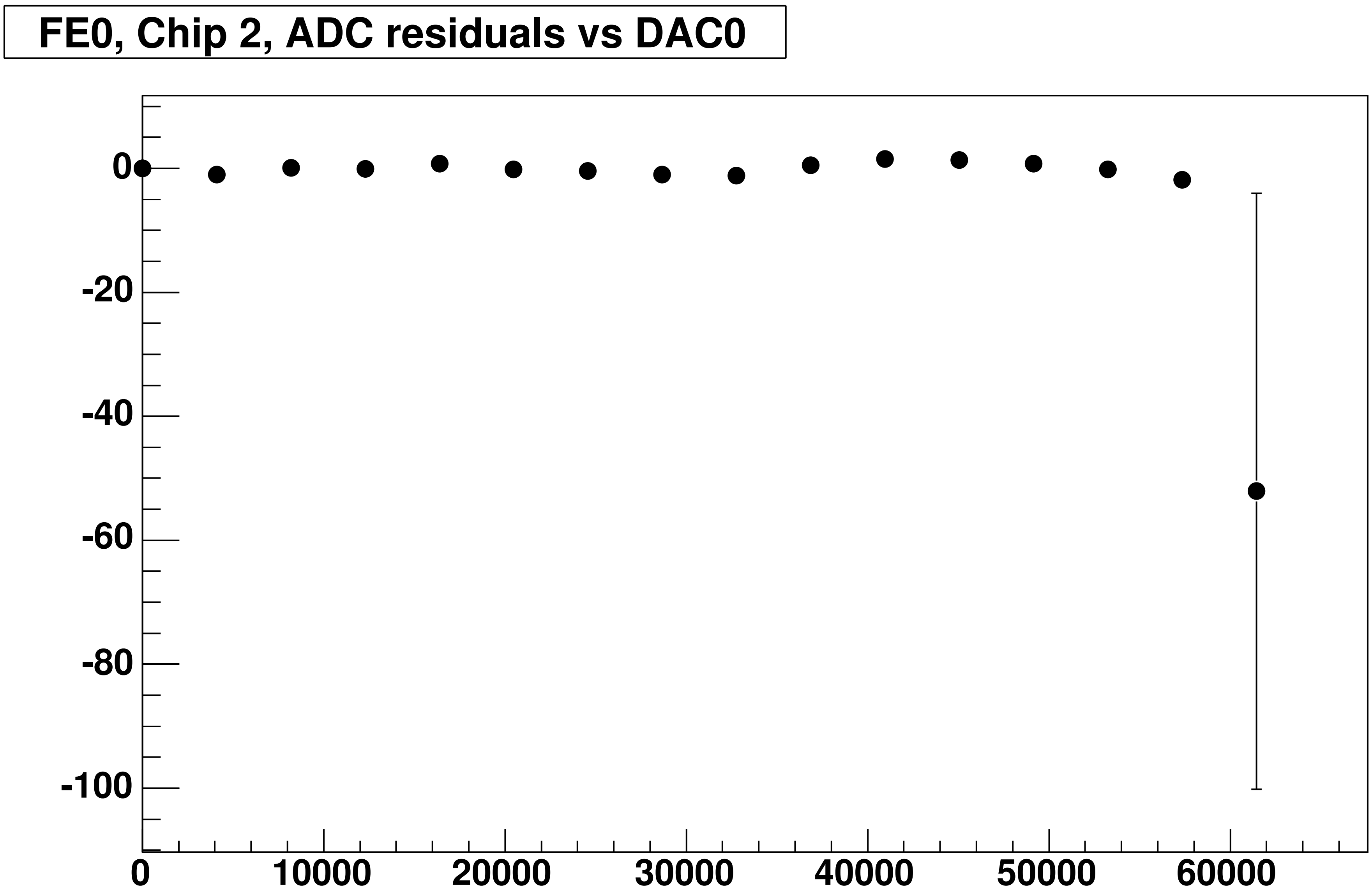
FE0, Chip 1, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



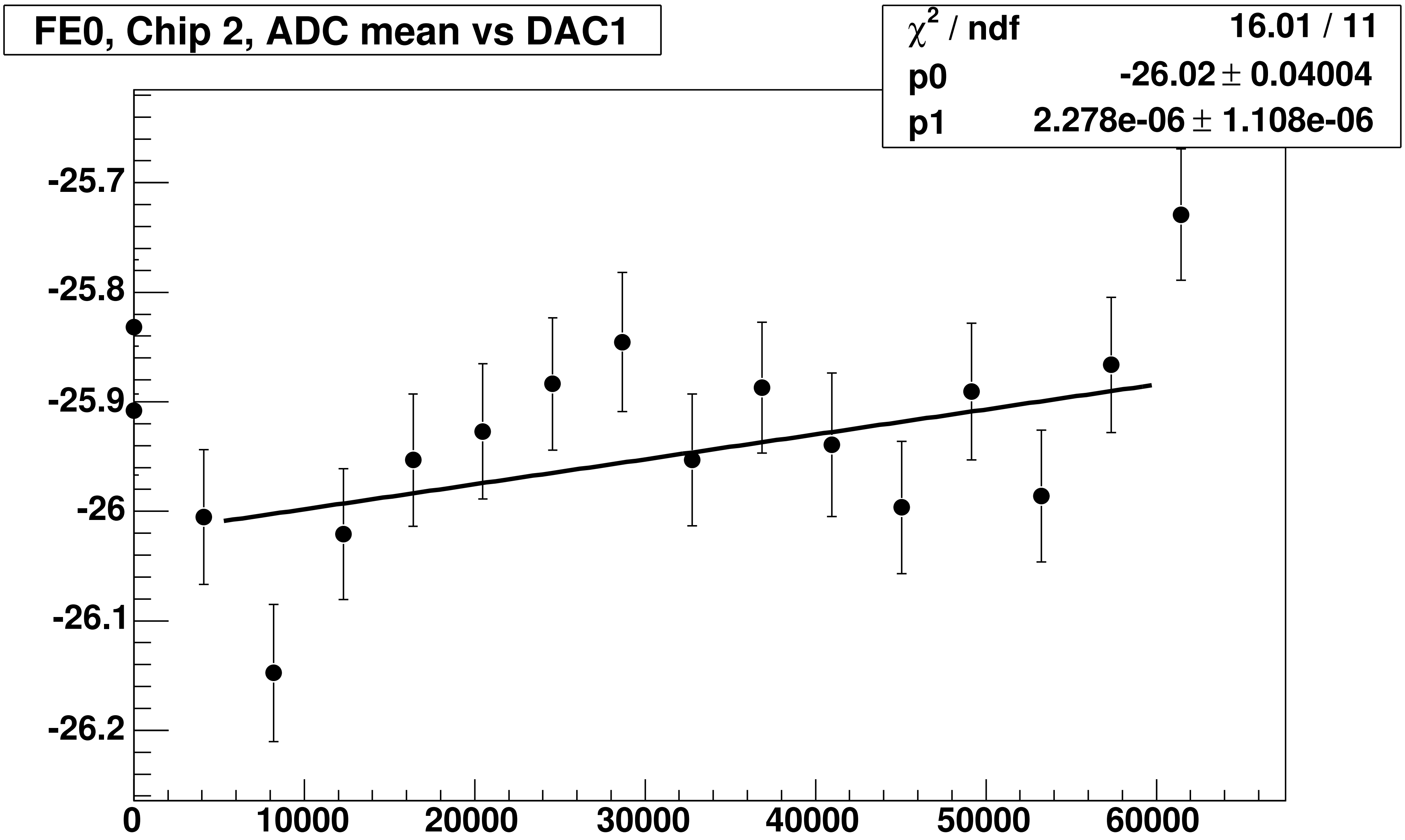
FE0, Chip 2, ADC mean vs DAC0
χ² / ndf 1648 / 11
p0 -24.28 ± 0.04289
p1 0.4512 ± 1.397e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

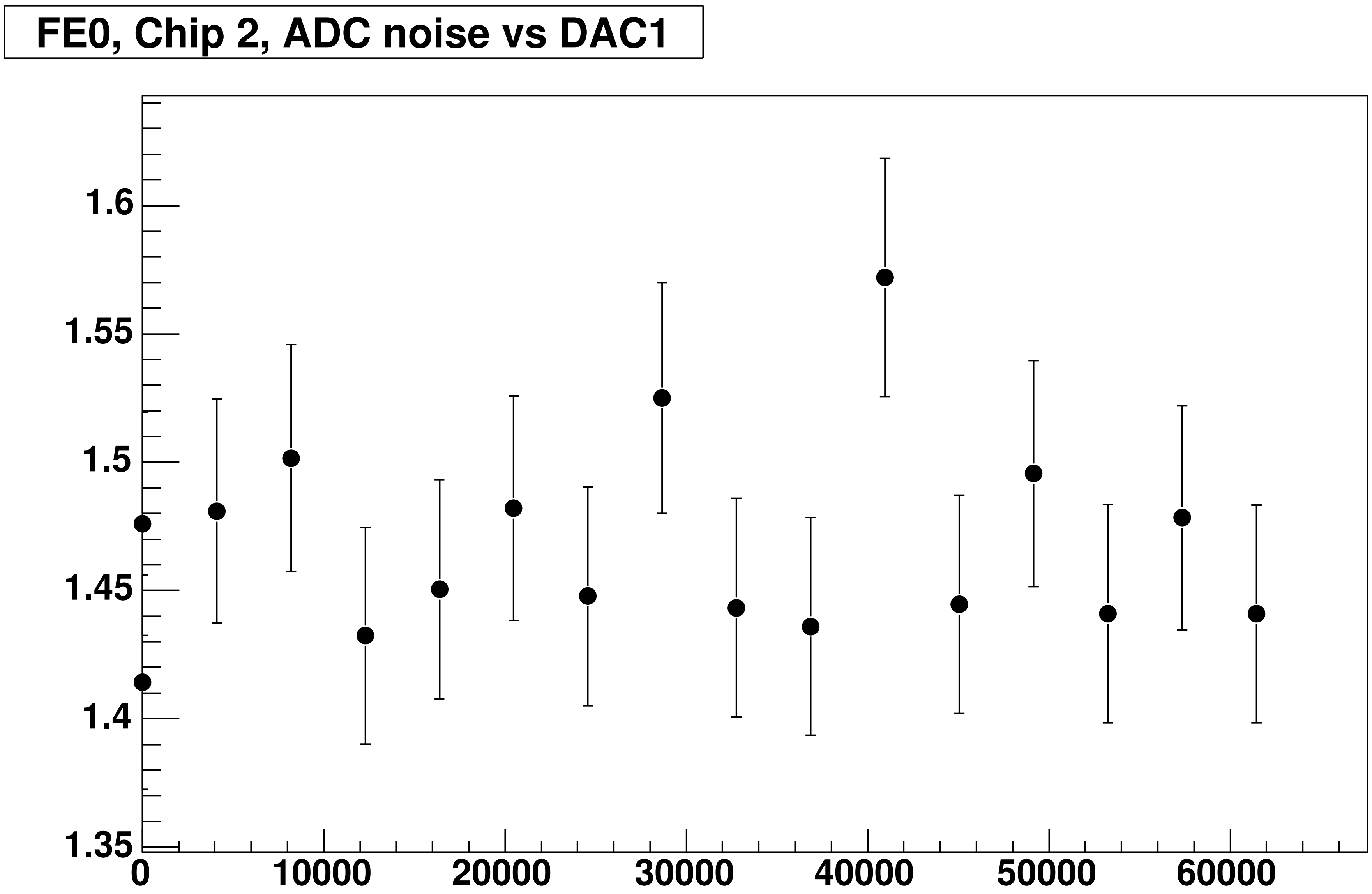


FE0, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

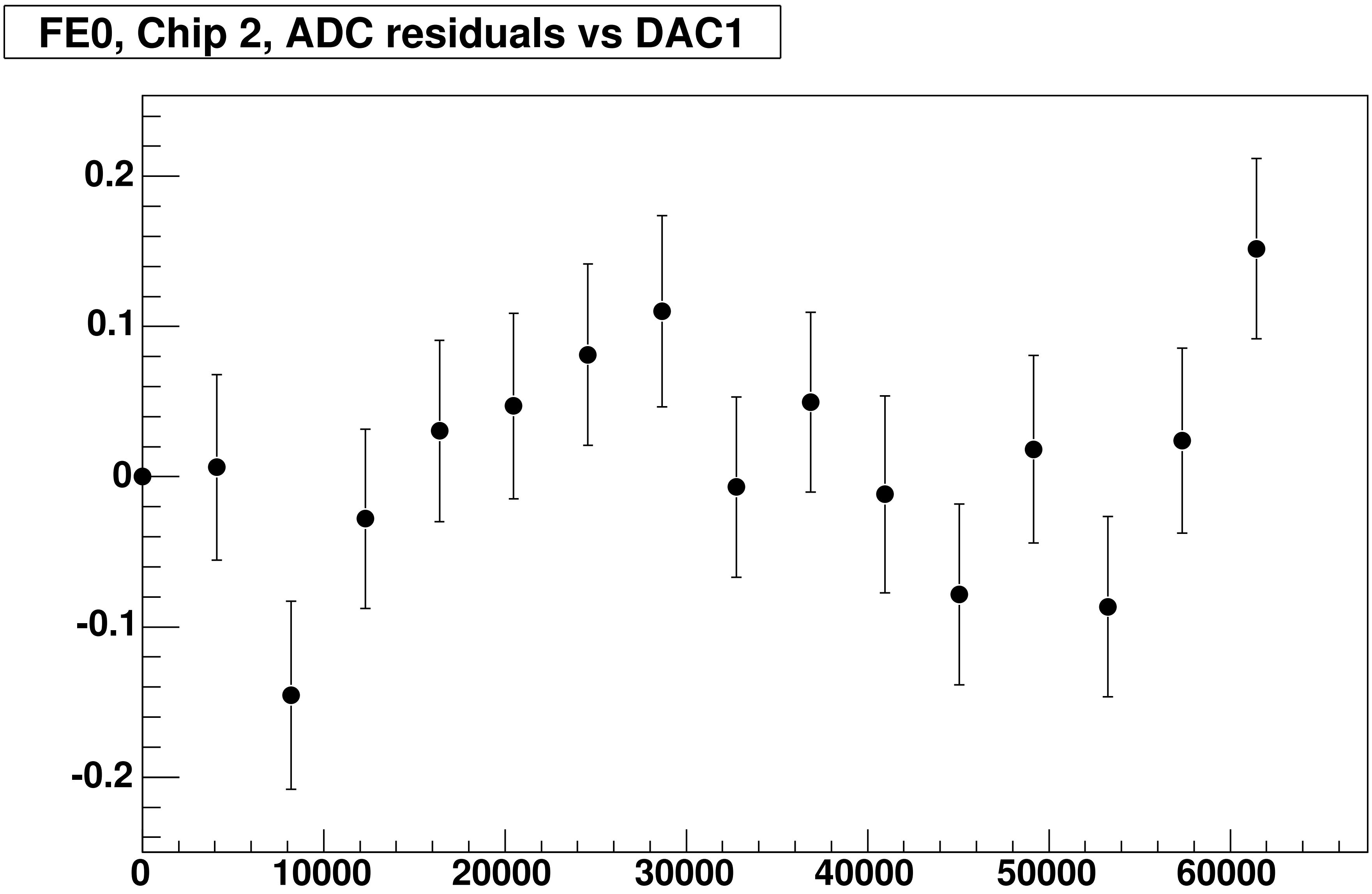


FE0, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

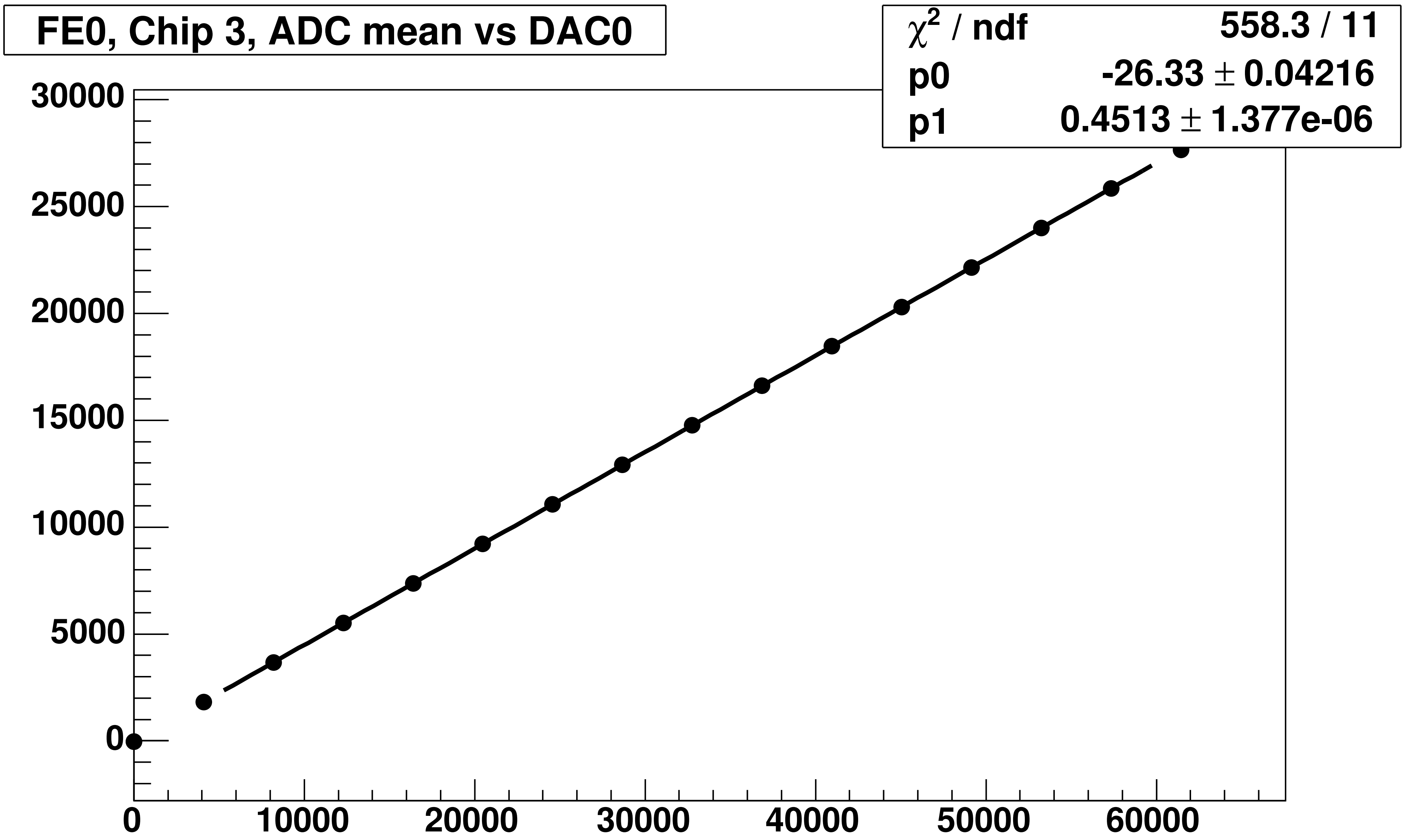

FE0, Chip 2, ADC mean vs DAC1
χ^2 / ndf 16.01 / 11
p0 -26.02 ± 0.04004
p1 2.278e-06 ± 1.108e-06
-25.7
-25.8
-25.9
-26
-26.1
-26.2
0
10000
20000
30000
40000
50000
60000

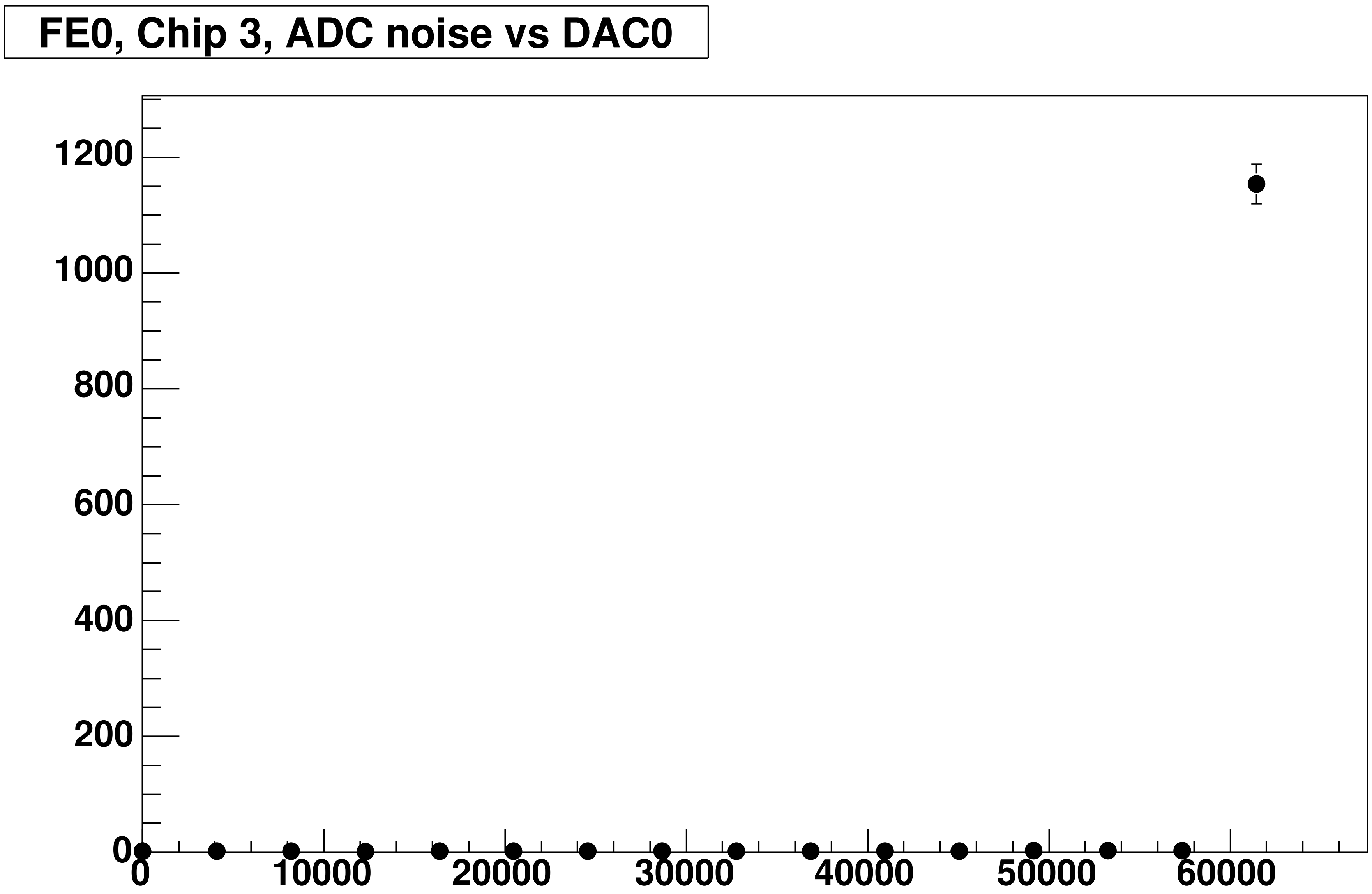


FE0, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

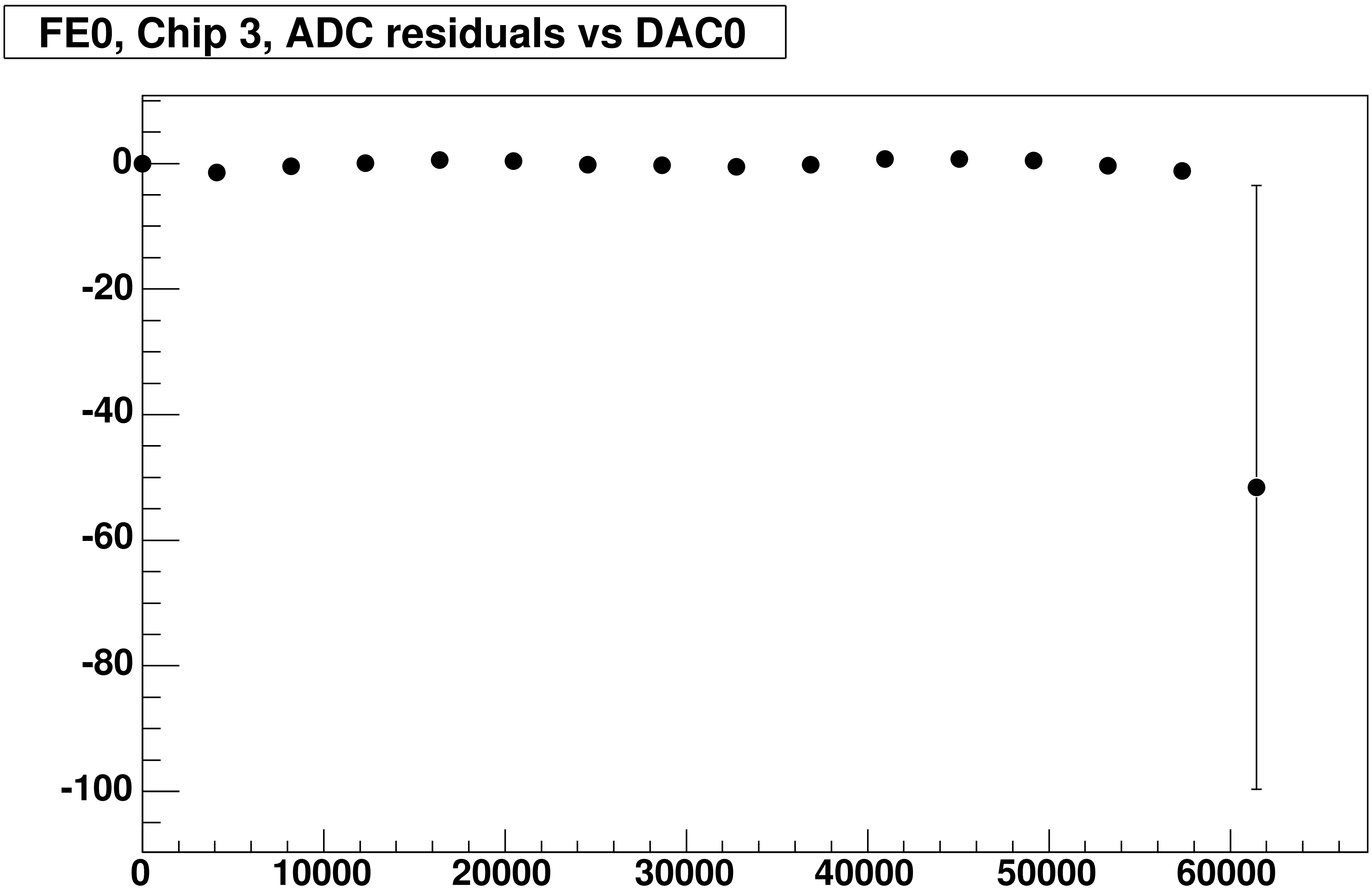


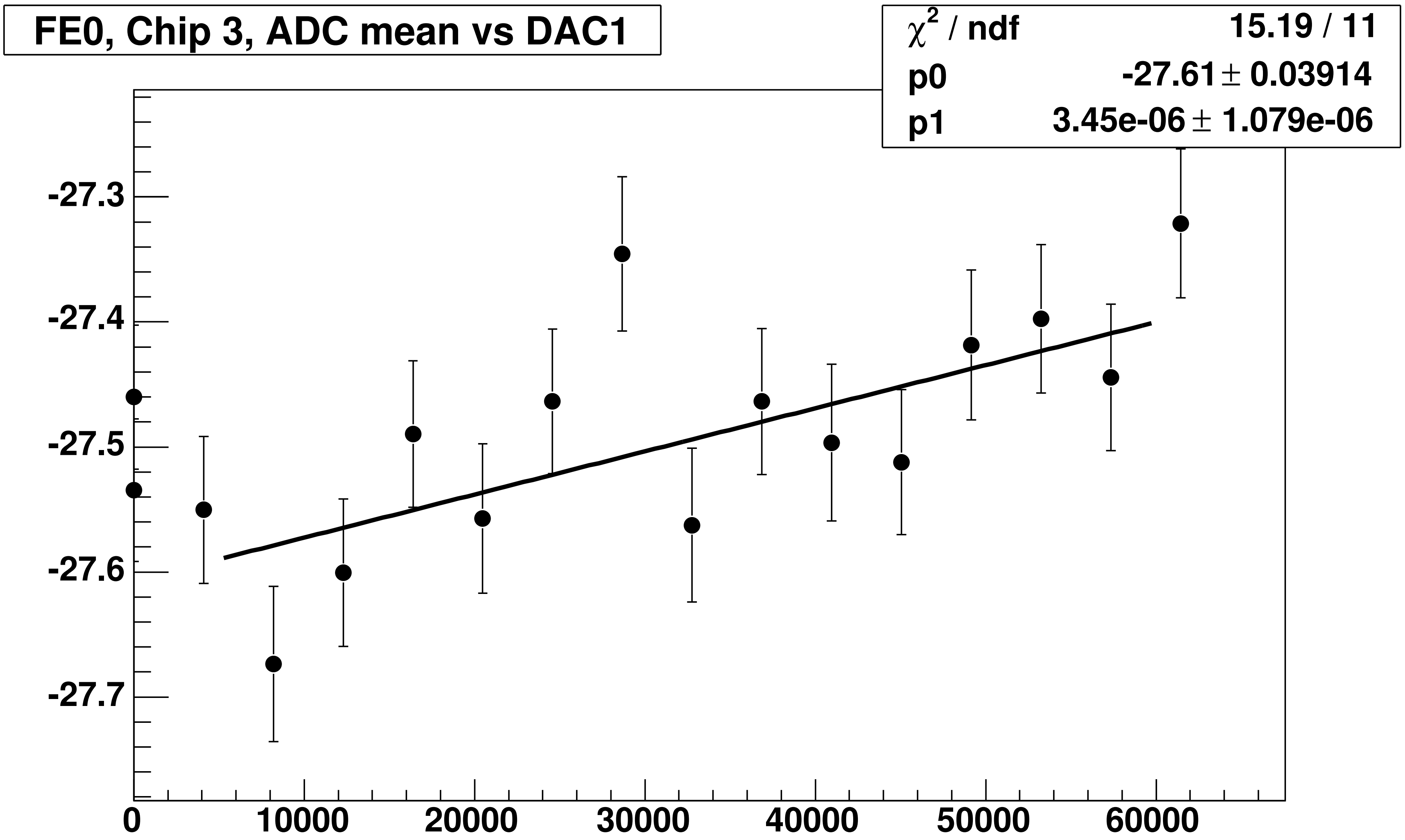
FE0, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE0, Chip 3, ADC mean vs DAC0
χ² / ndf 558.3 / 11
p0 -26.33 ± 0.04216
p1 0.4513 ± 1.377e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

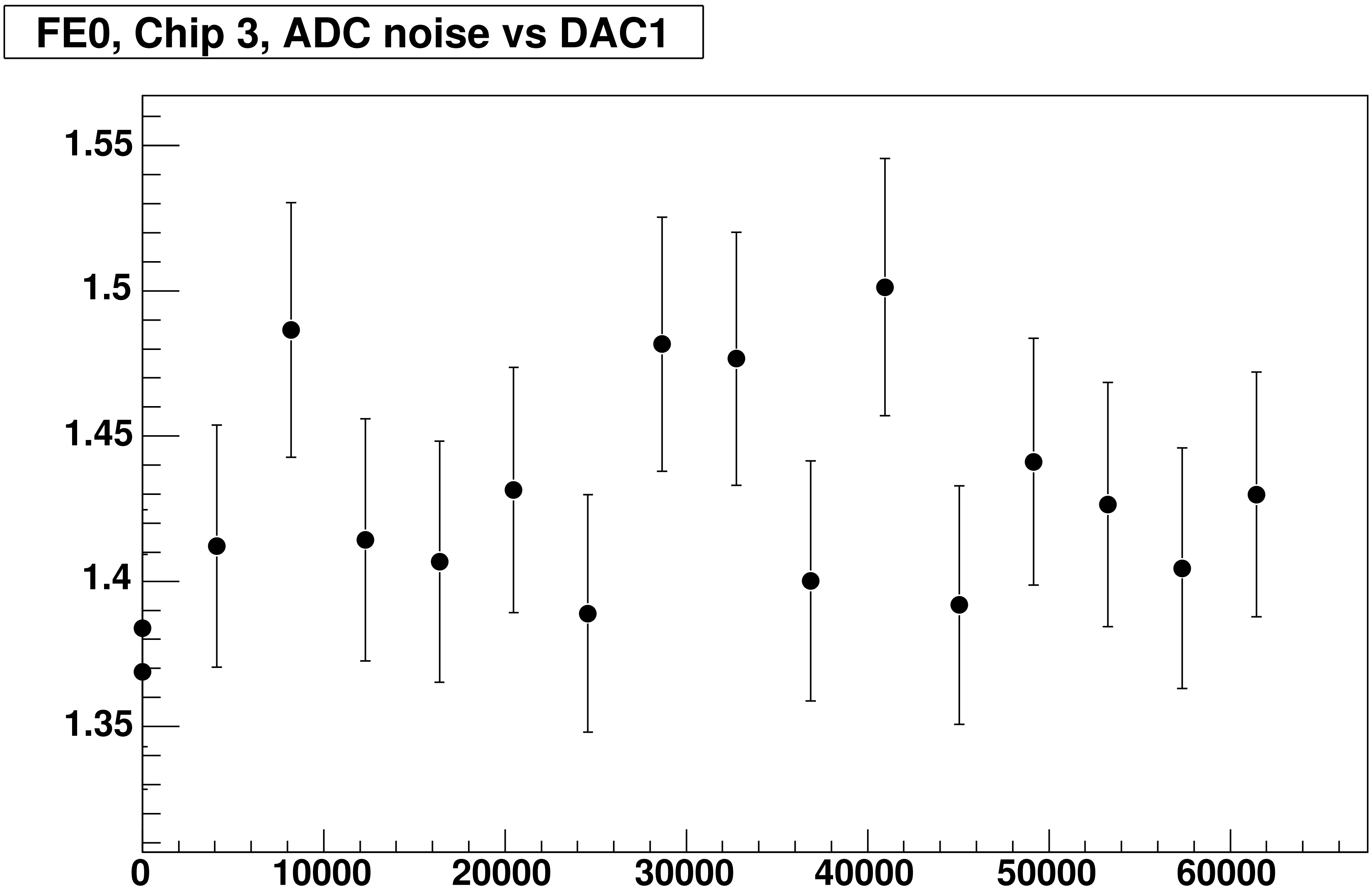


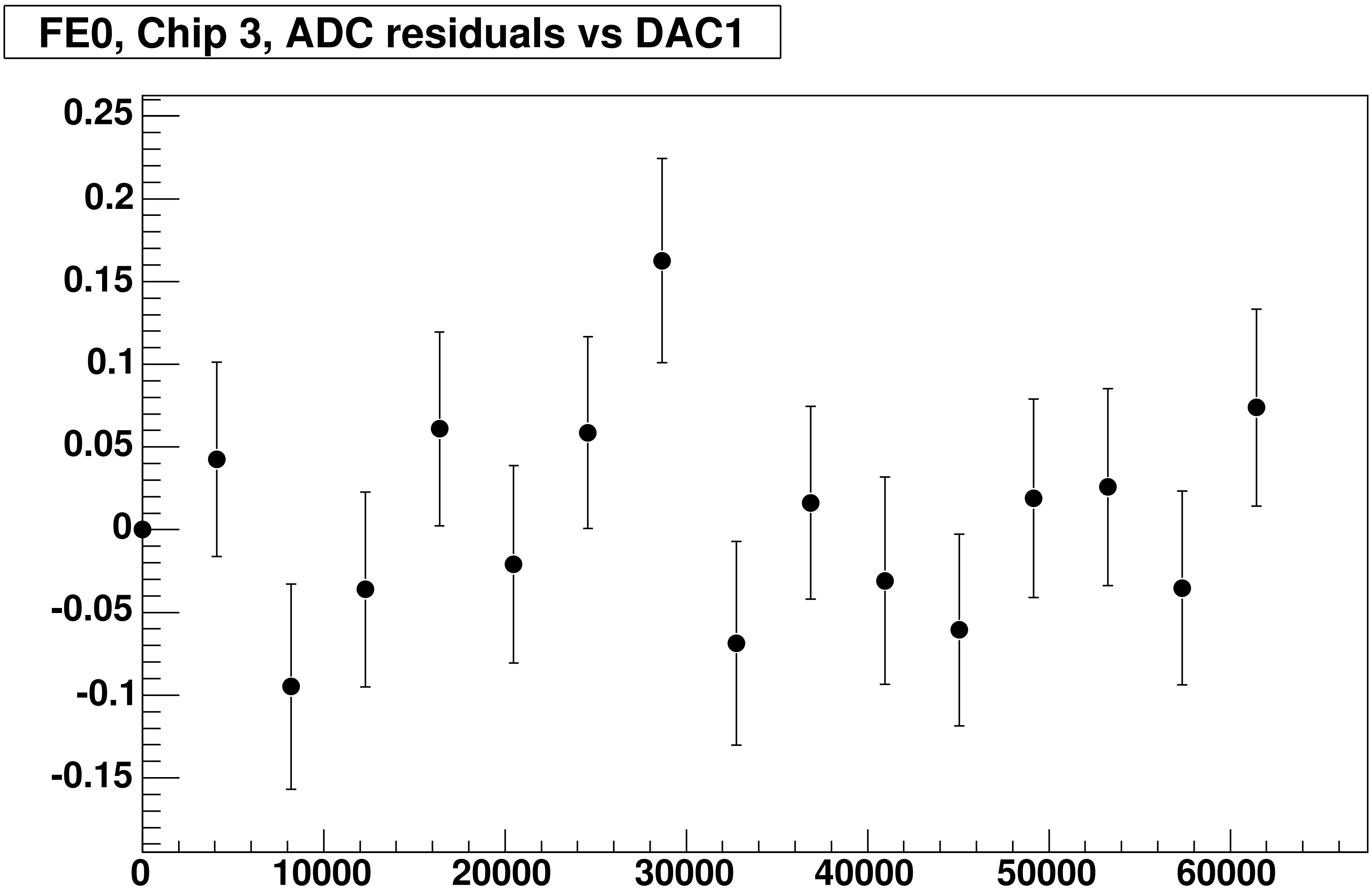
FE0, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000


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

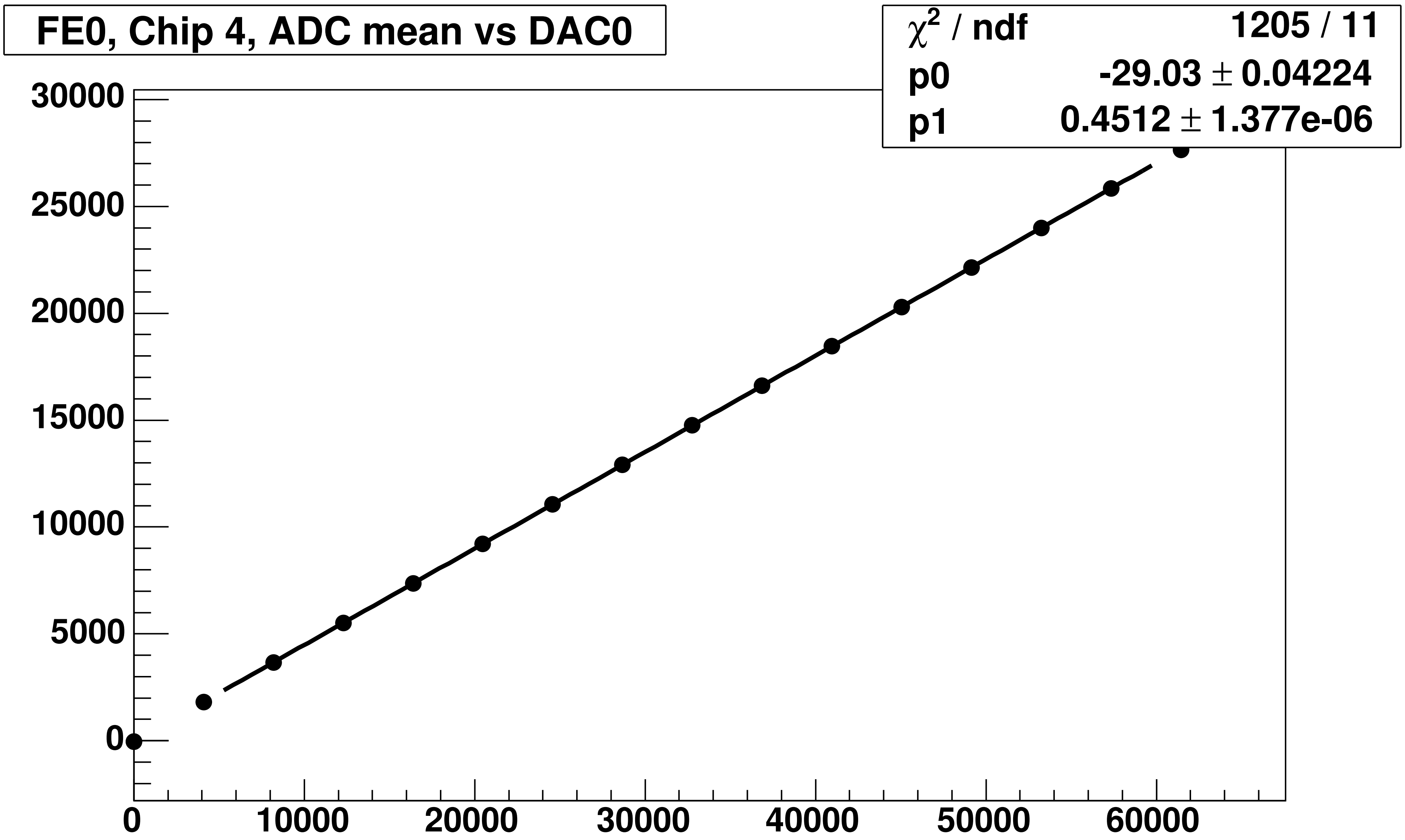


FE0, Chip 3, ADC mean vs DAC1
χ² / ndf 15.19 / 11
p0 -27.61 ± 0.03914
p1 3.45e-06 ± 1.079e-06
-27.3
-27.4
-27.5
-27.6
-27.7
0
10000
20000
30000
40000
50000
60000

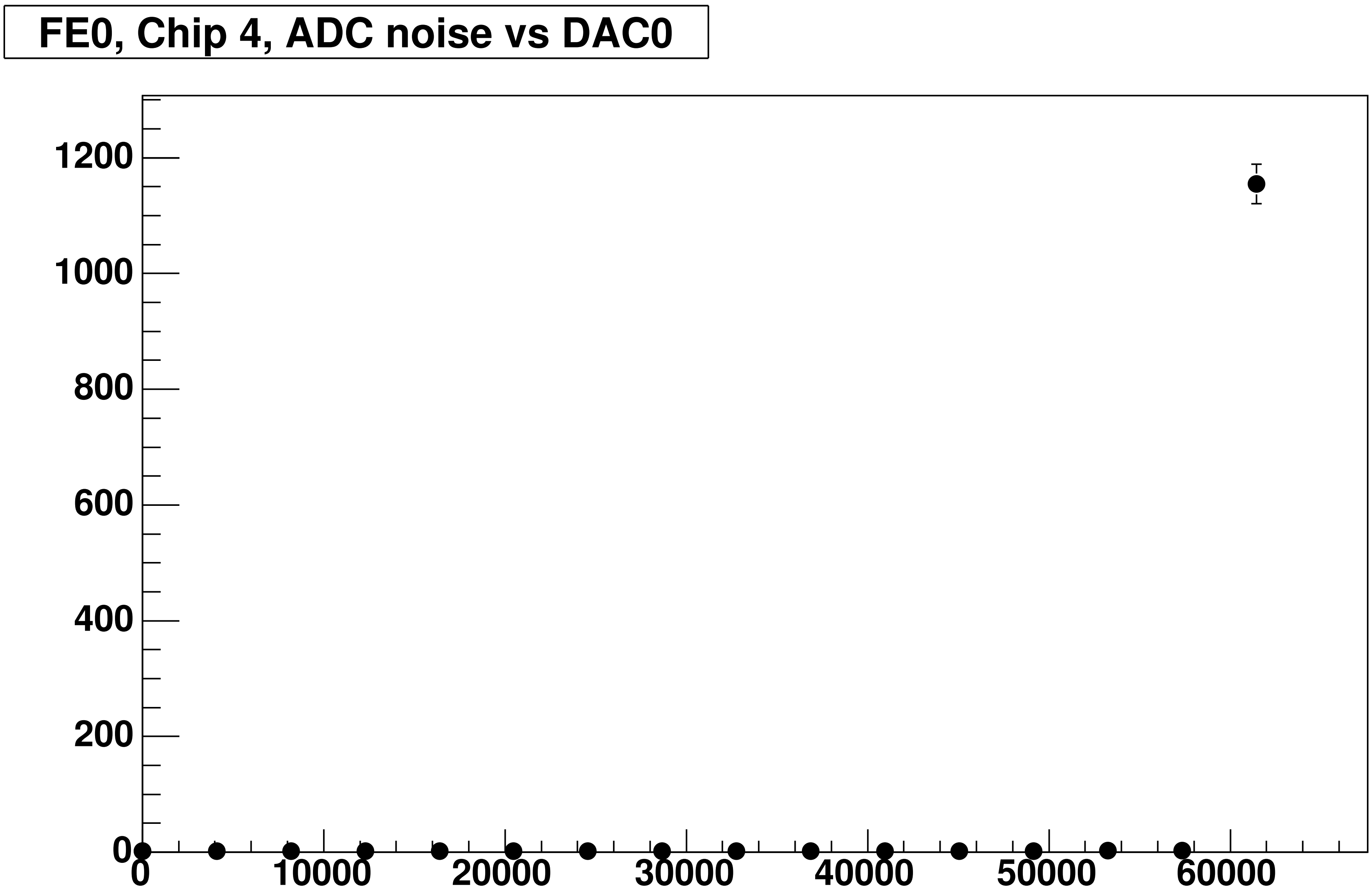

FE0, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

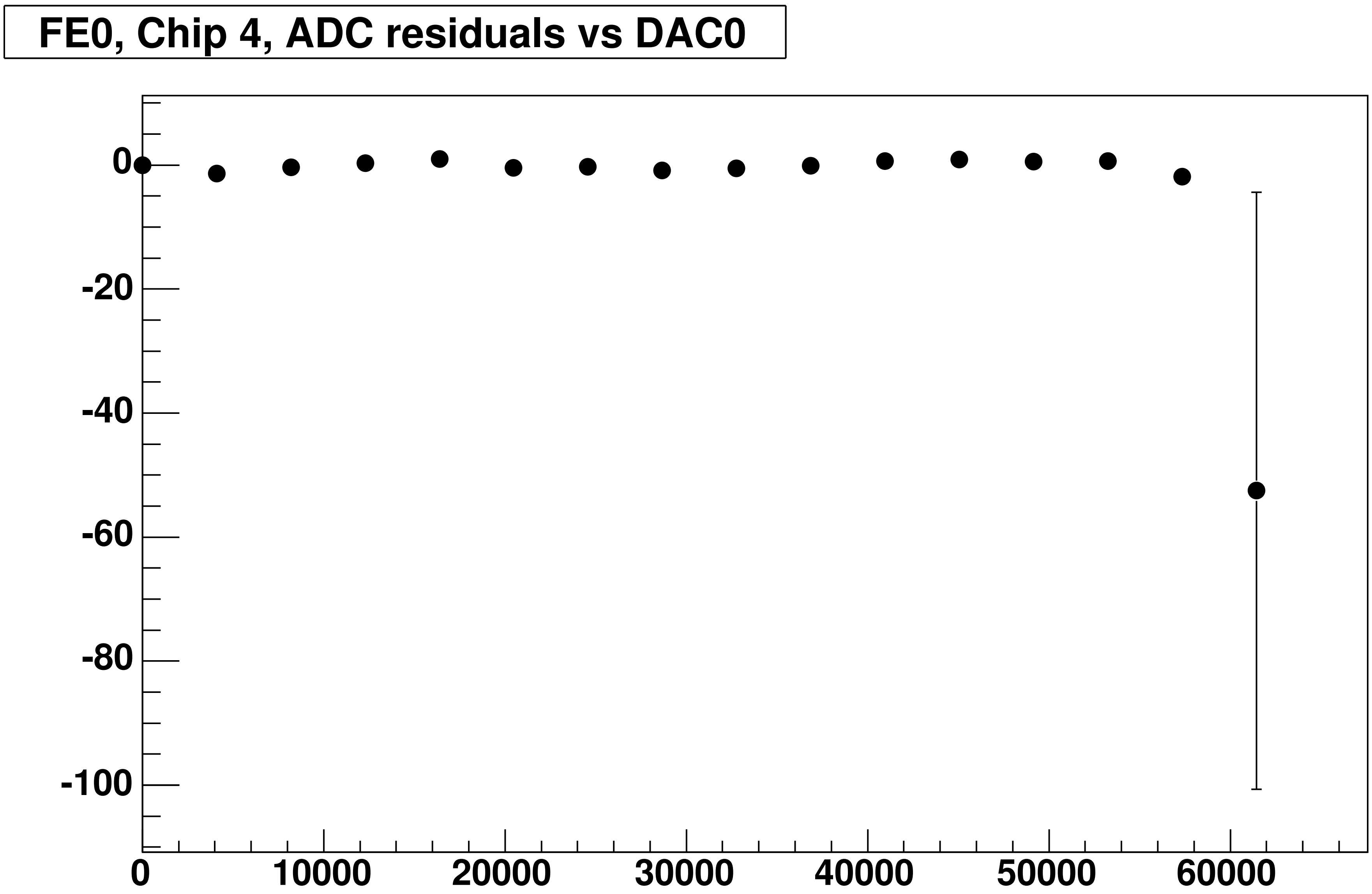


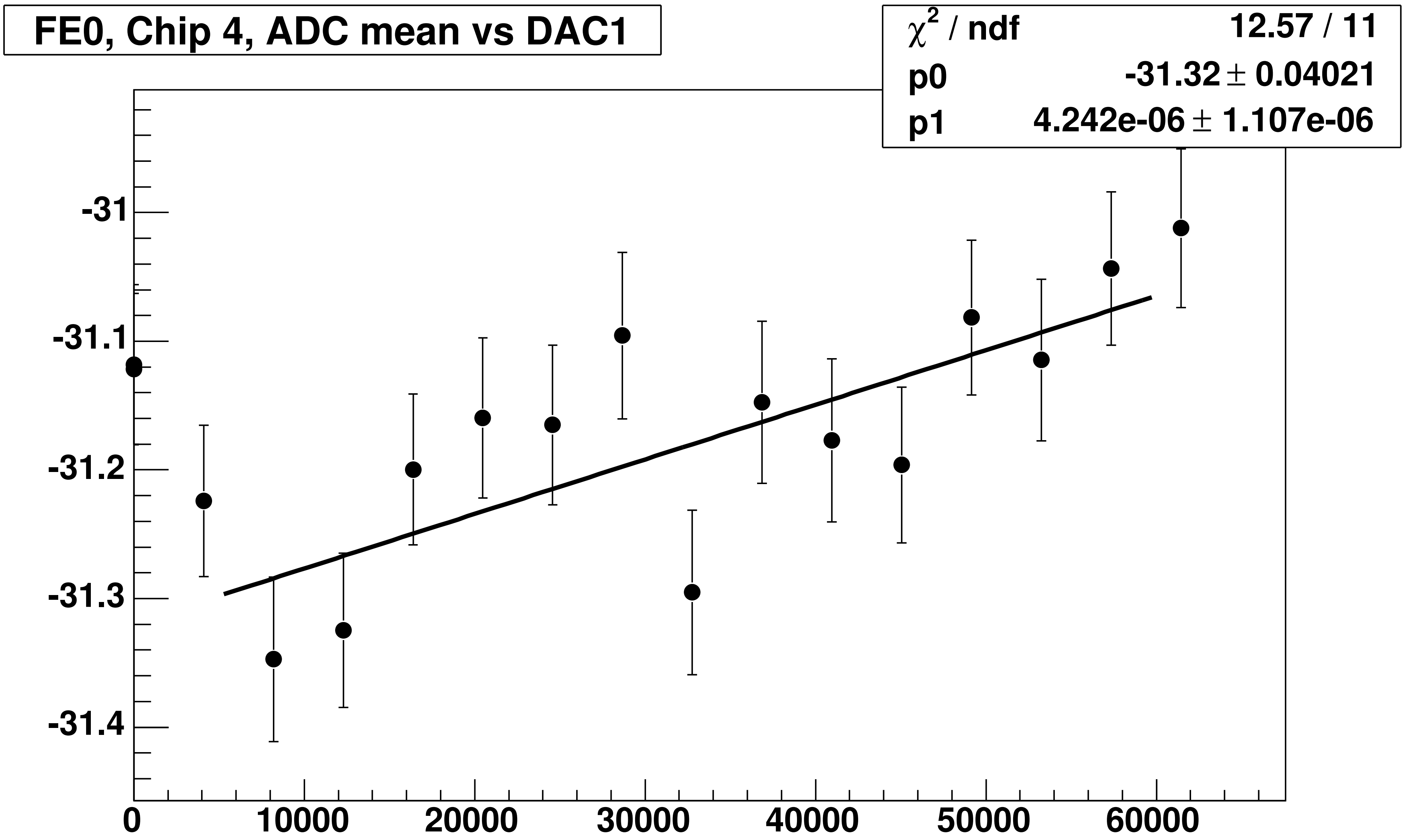
FE0, Chip 3, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



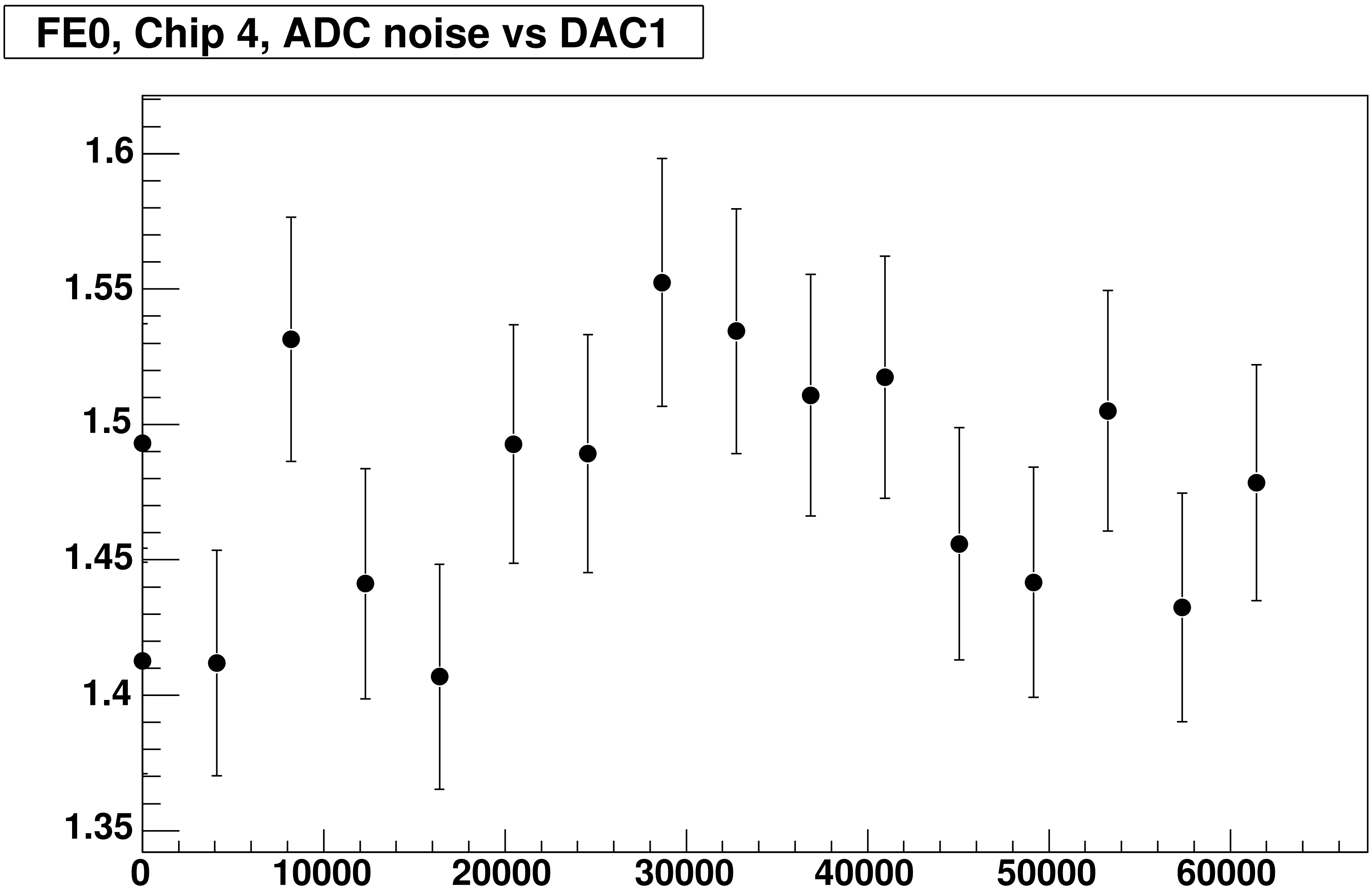
FE0, Chip 4, ADC mean vs DAC0
χ2 / ndf 1205 / 11
p0 -29.03 ± 0.04224
p1 0.4512 ± 1.377e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

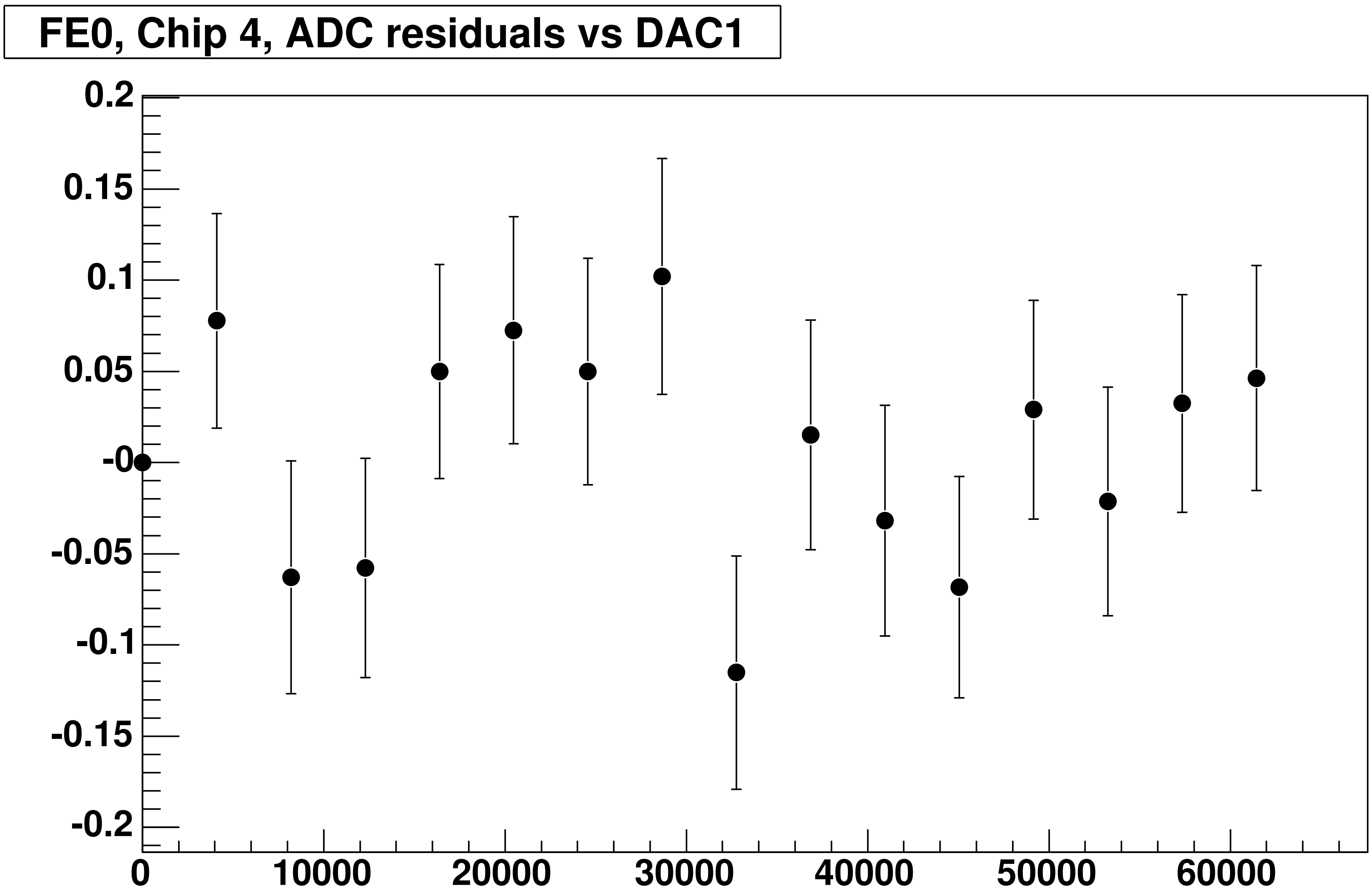

FE0, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

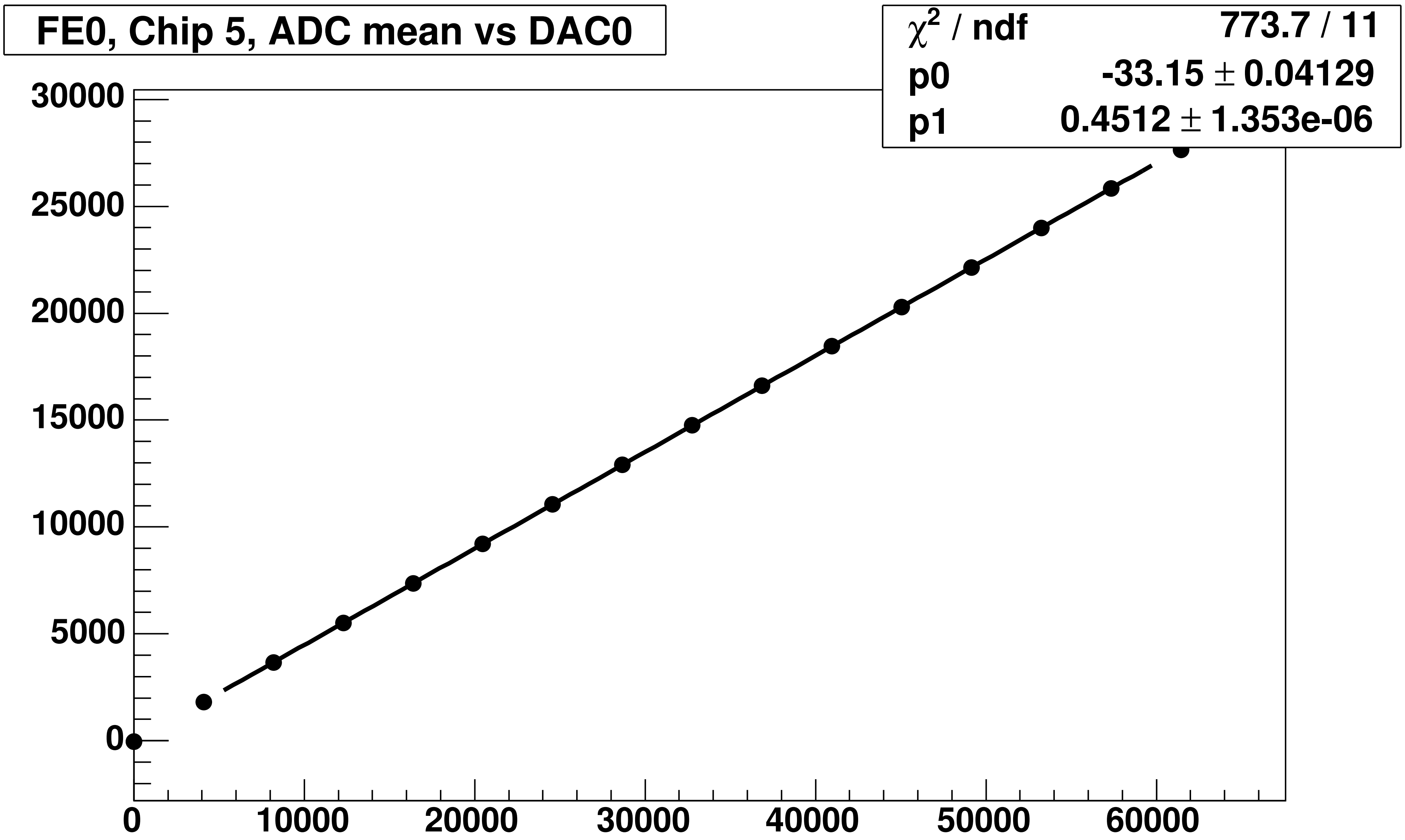

FE0, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



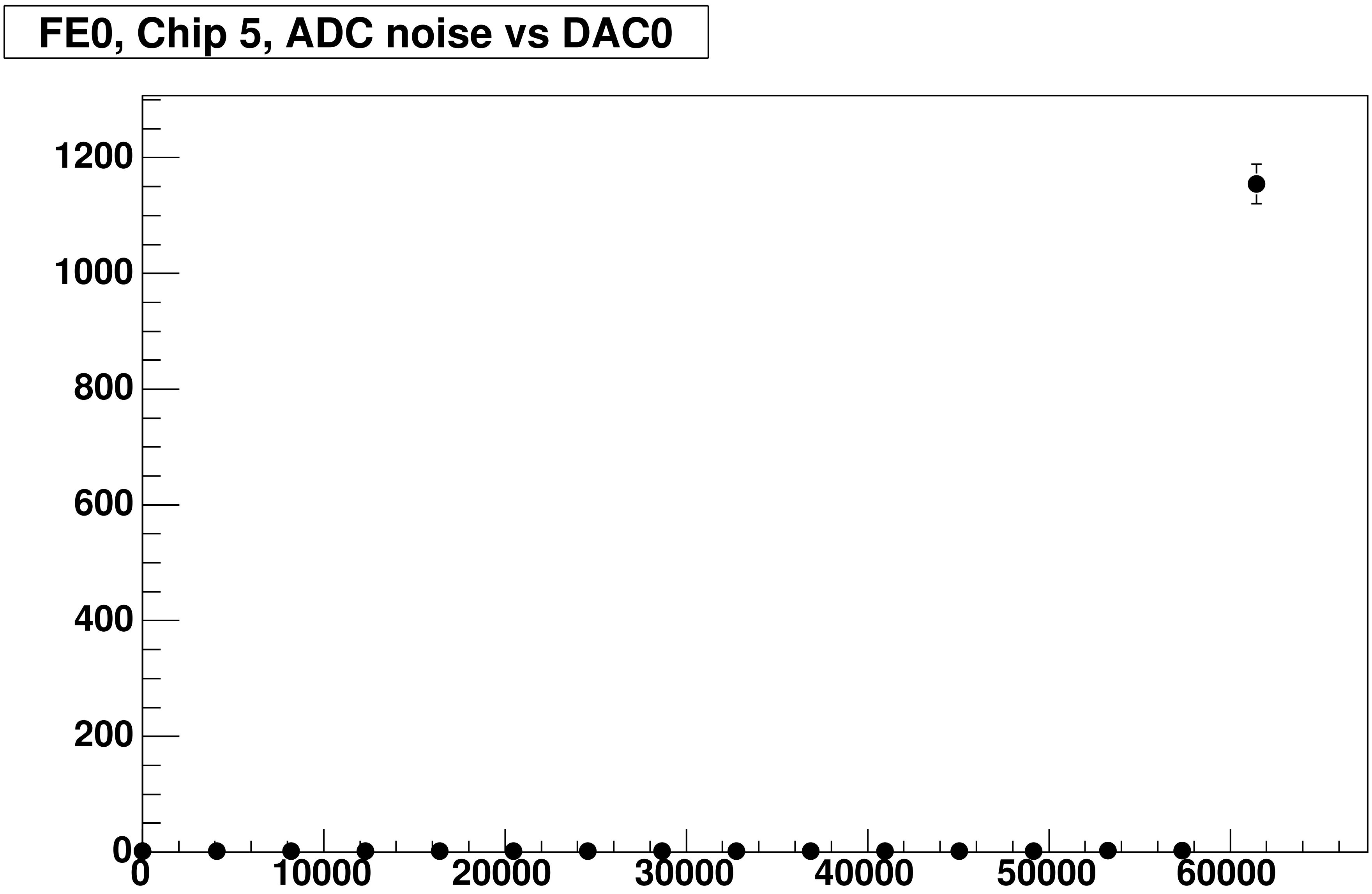
FE0, Chip 4, ADC mean vs DAC1
χ2 / ndf 12.57 / 11
p0 -31.32 ± 0.04021
p1 4.242e-06 ± 1.107e-06
-31
-31.1
-31.2
-31.3
-31.4
0
10000
20000
30000
40000
50000
60000

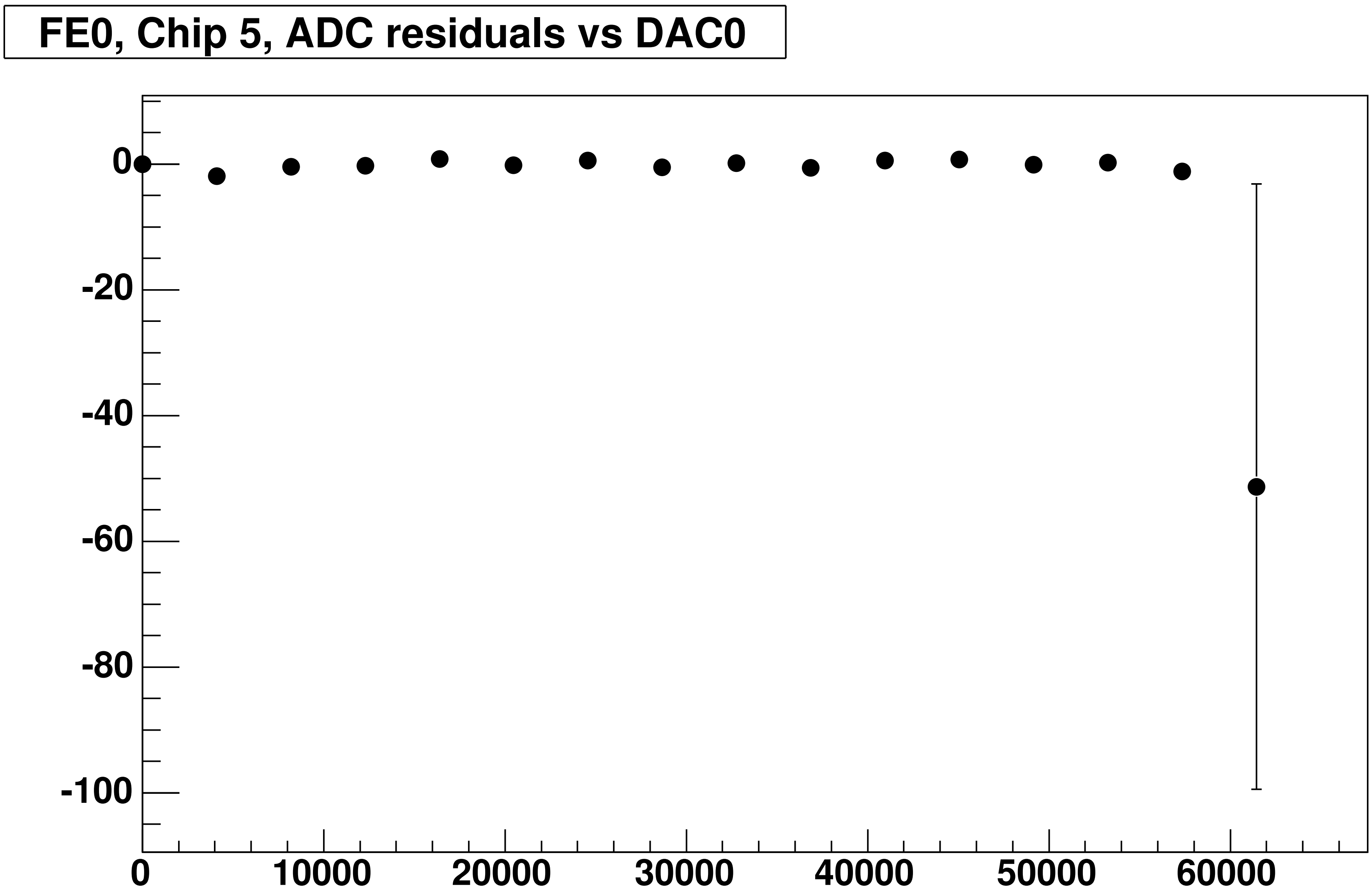

FE0, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

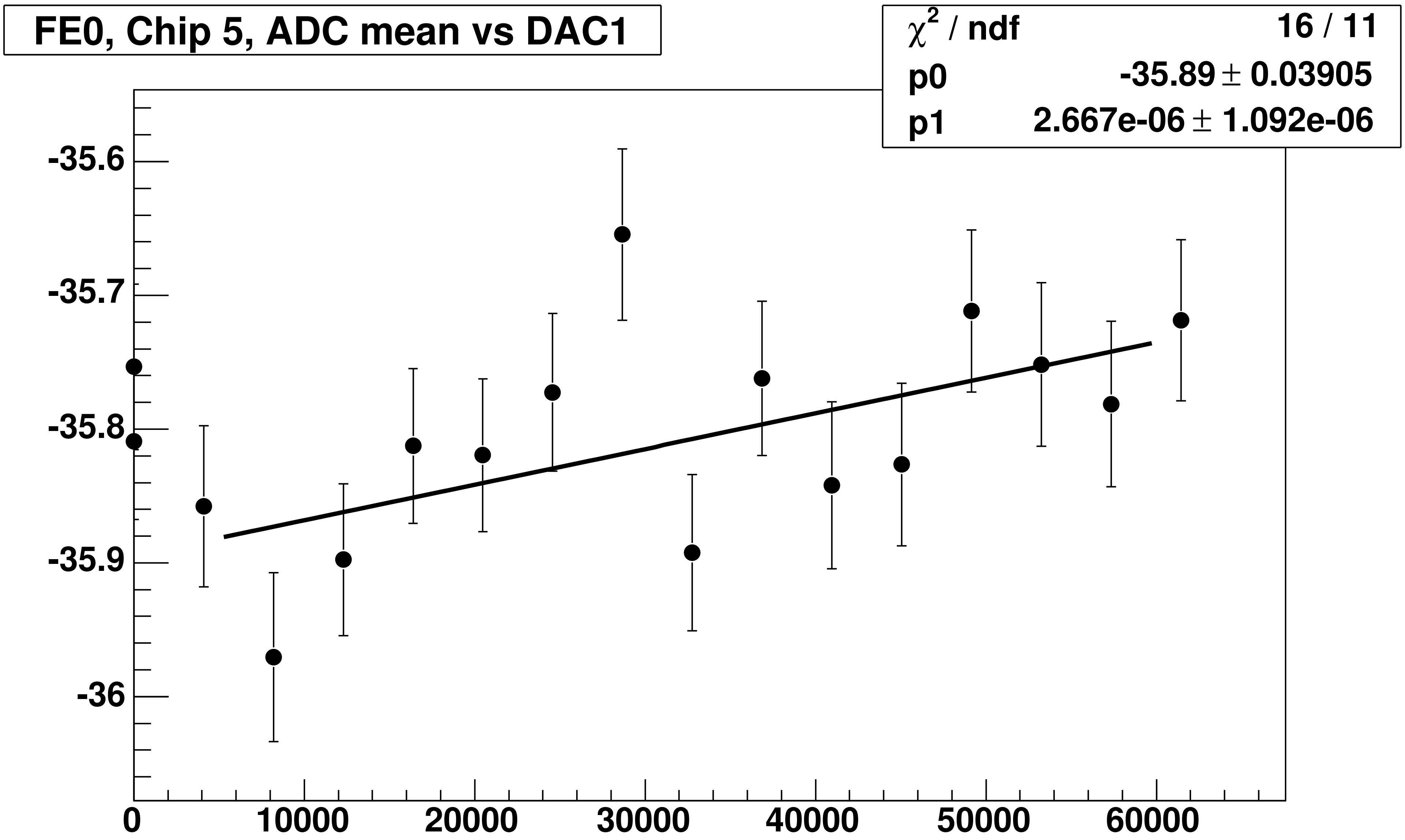


FE0, Chip 5, ADC mean vs DAC0
χ2 / ndf 773.7 / 11
p0 -33.15 ± 0.04129
p1 0.4512 ± 1.353e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

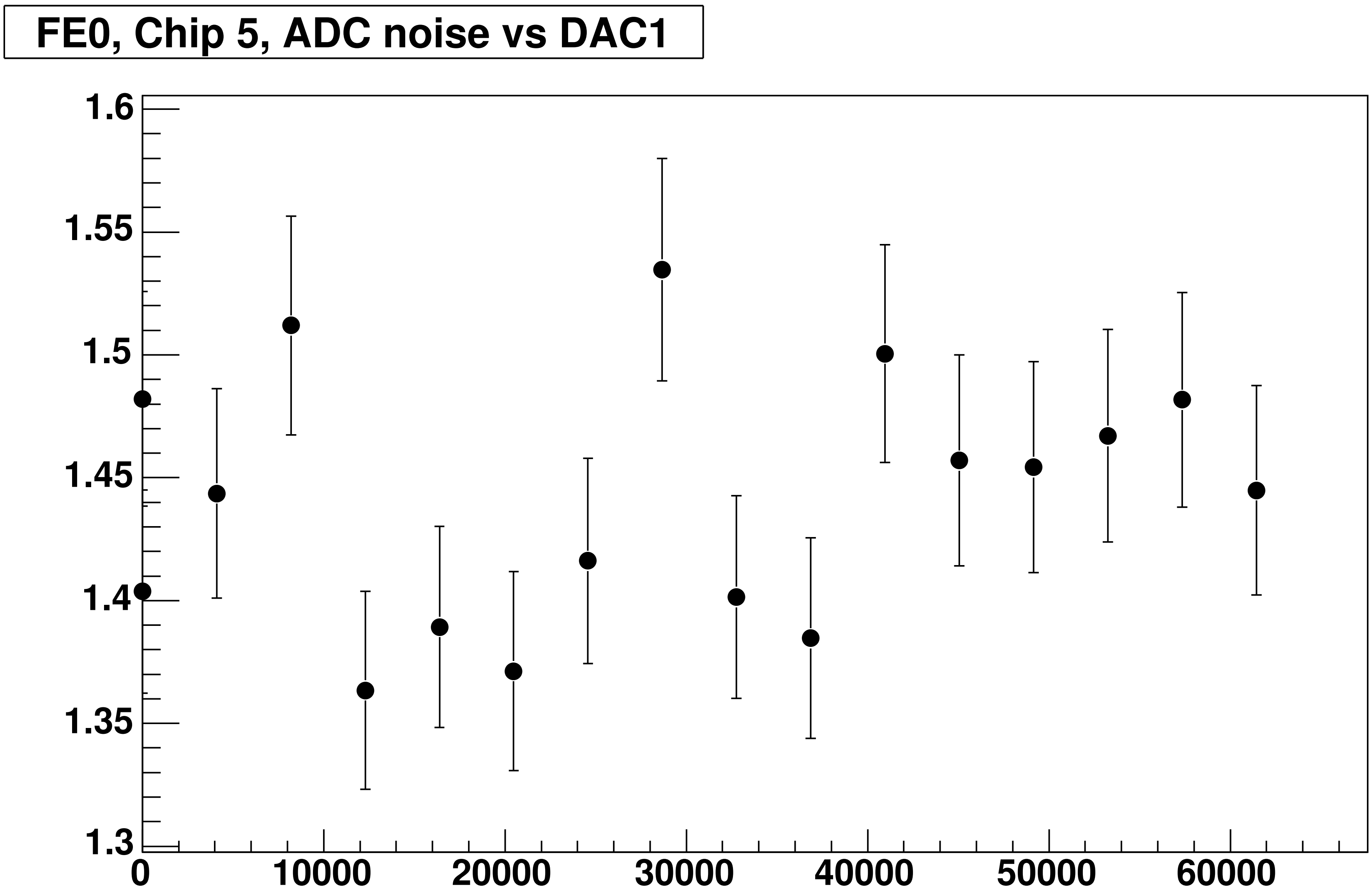

FE0, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

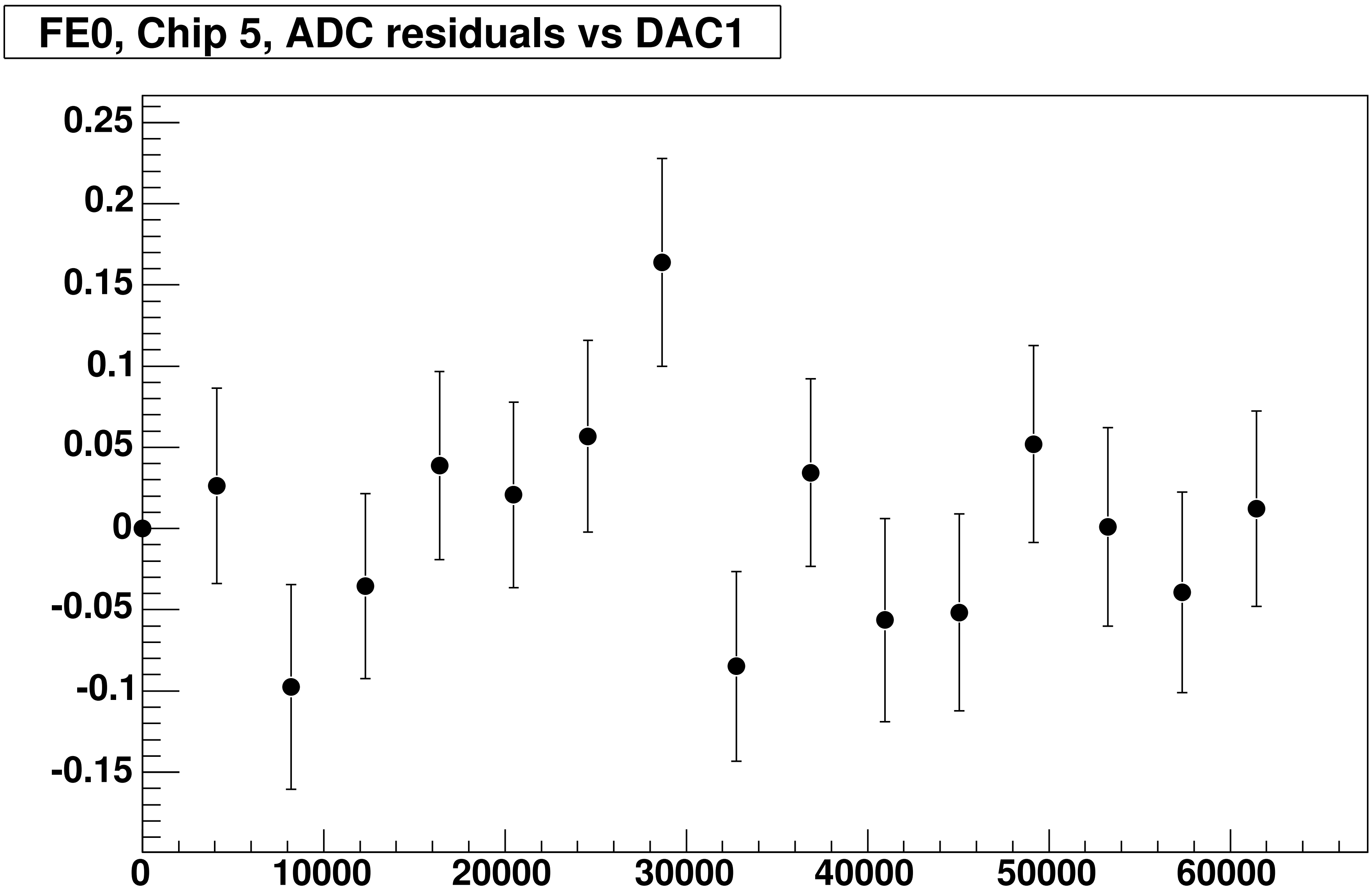


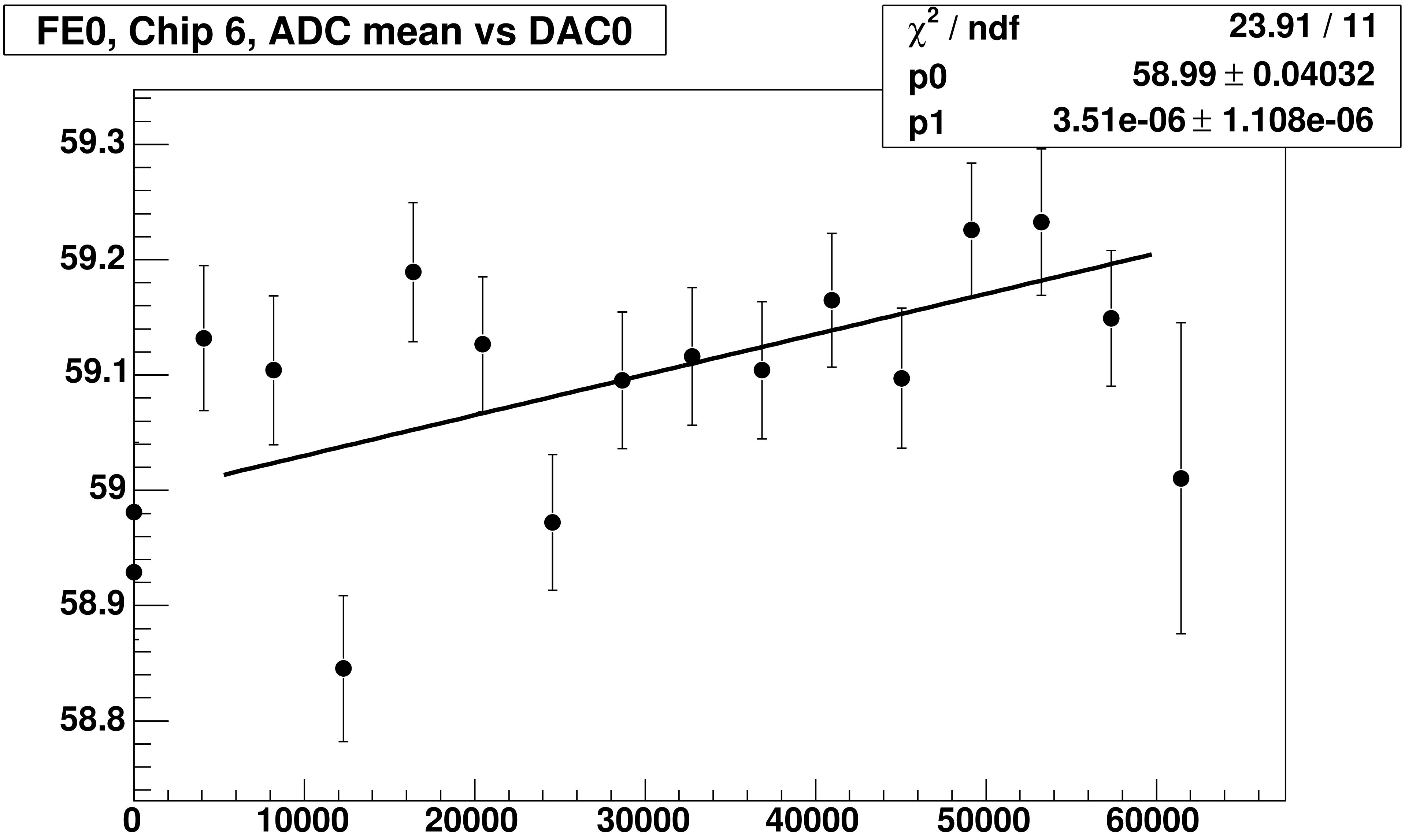
FE0, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



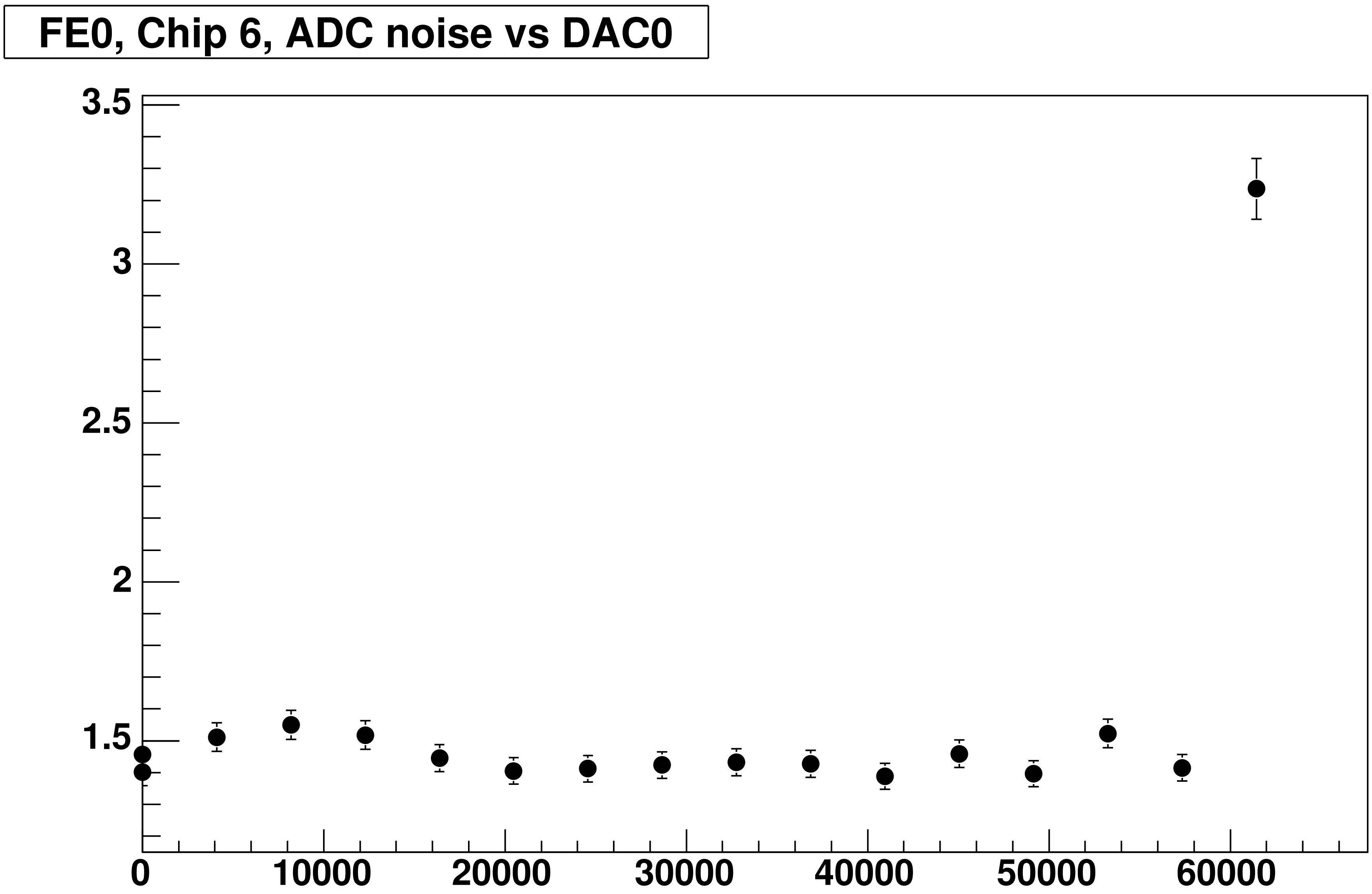
FE0, Chip 5, ADC mean vs DAC1
χ^2 / ndf 16 / 11
p0 -35.89 ± 0.03905
p1 2.667e-06 ± 1.092e-06
-35.6
-35.7
-35.8
-35.9
-36
0
10000
20000
30000
40000
50000
60000

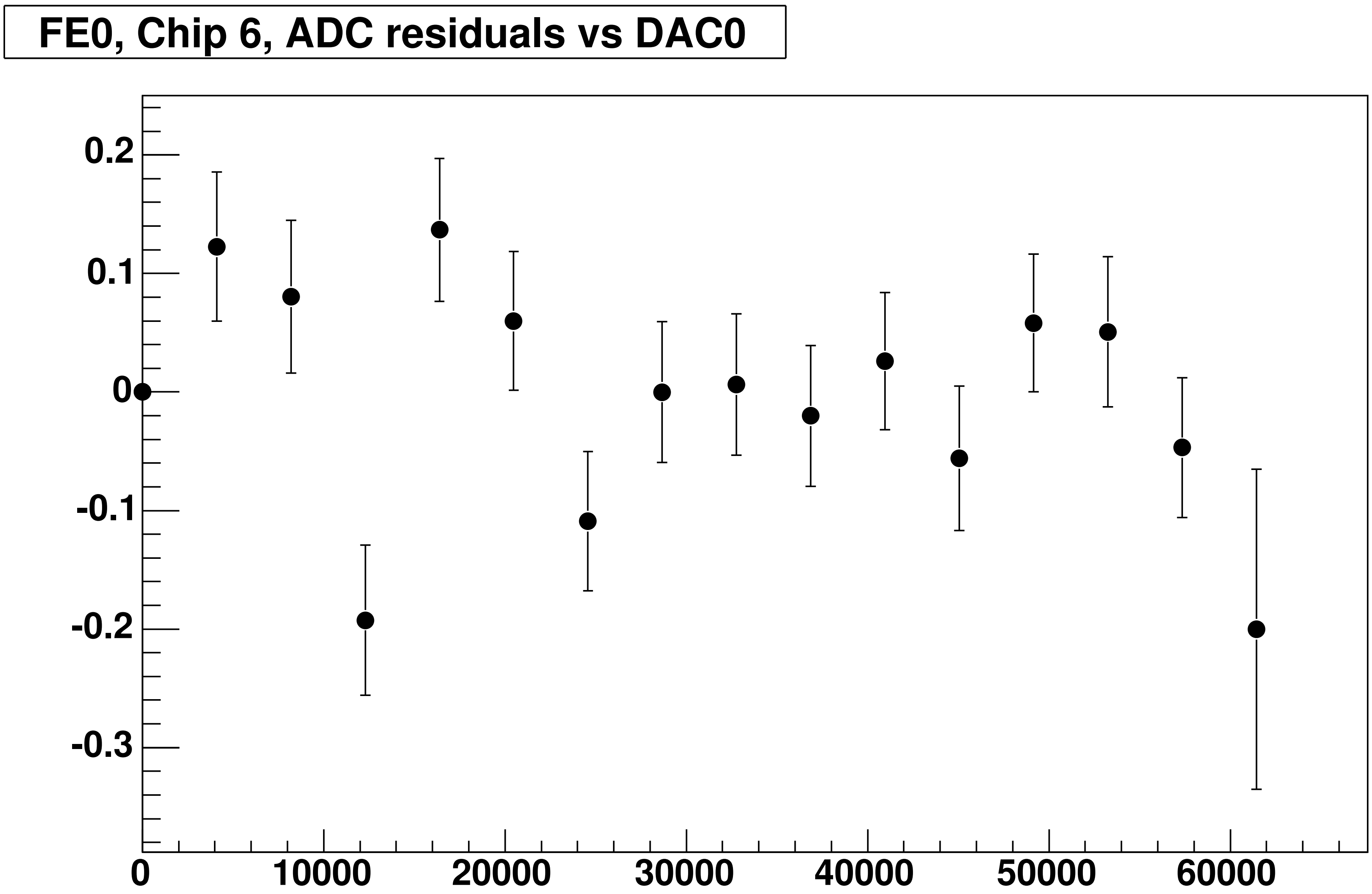

FE0, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

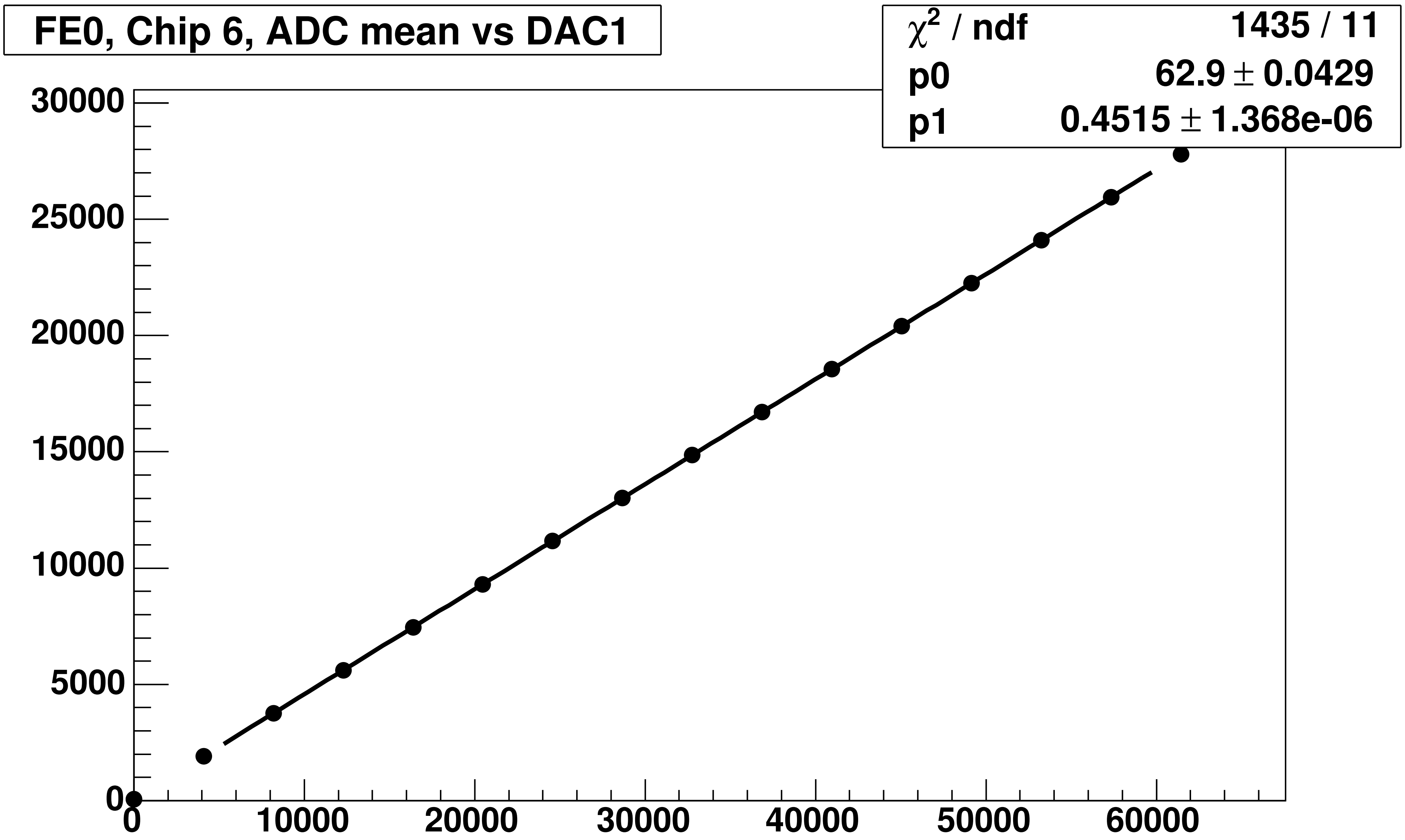

FE0, Chip 5, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



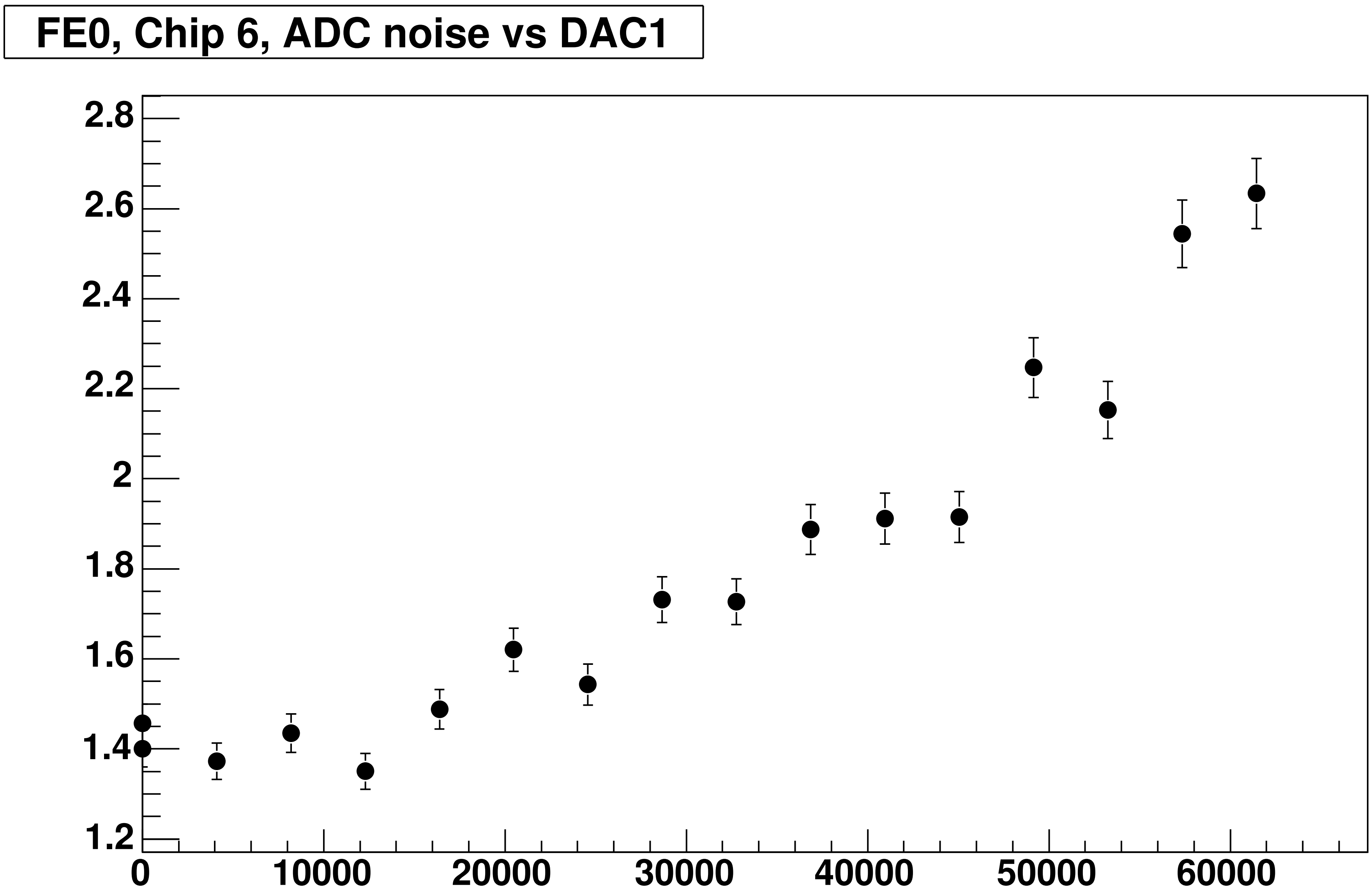
FE0, Chip 6, ADC mean vs DAC0
χ^2 / ndf 23.91 / 11
p0 58.99 ± 0.04032
p1 3.51e-06 ± 1.108e-06
59.3
59.2
59.1
59
58.9
58.8
0
10000
20000
30000
40000
50000
60000

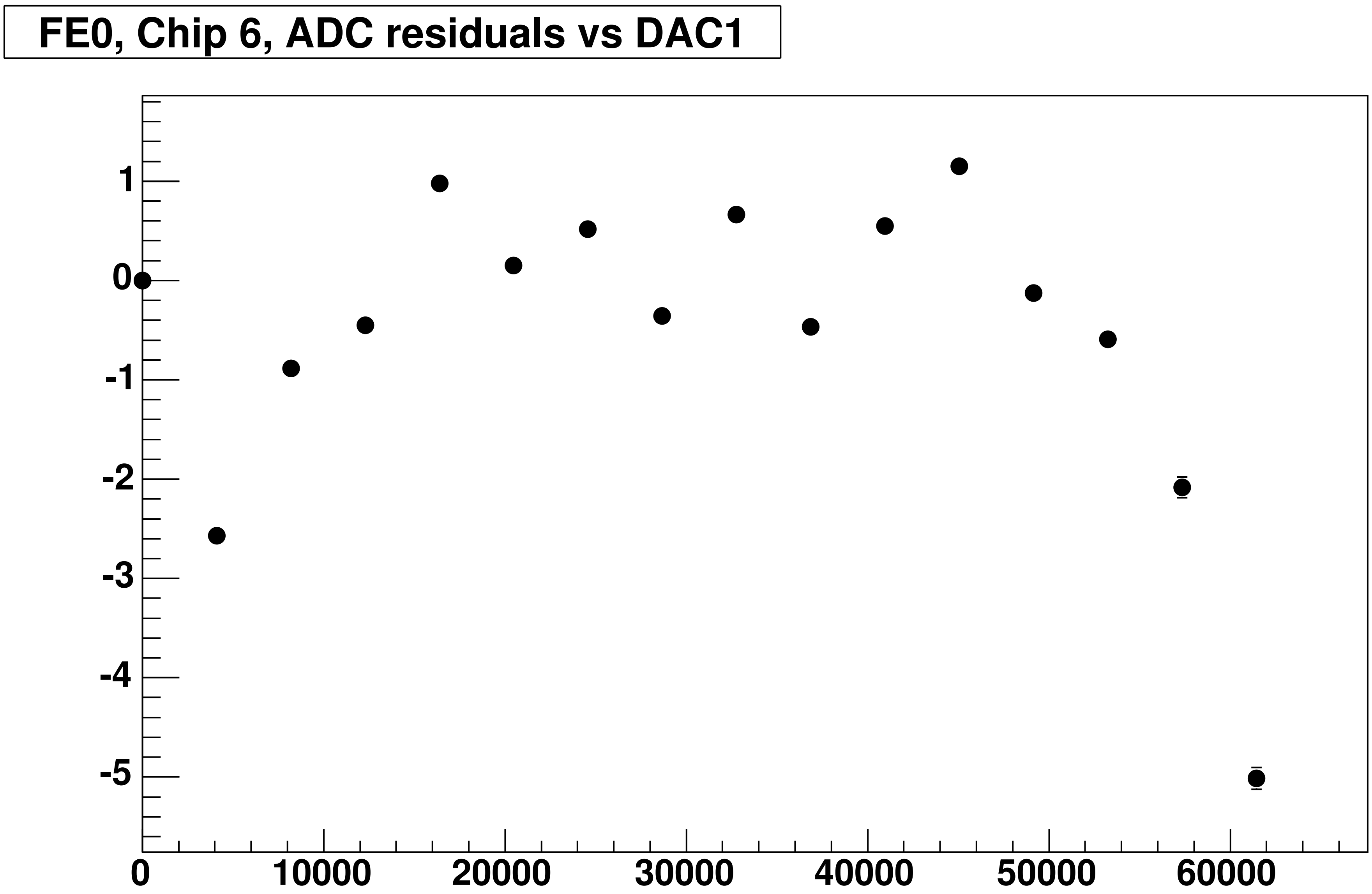

FE0, Chip 6, ADC noise vs DAC0
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

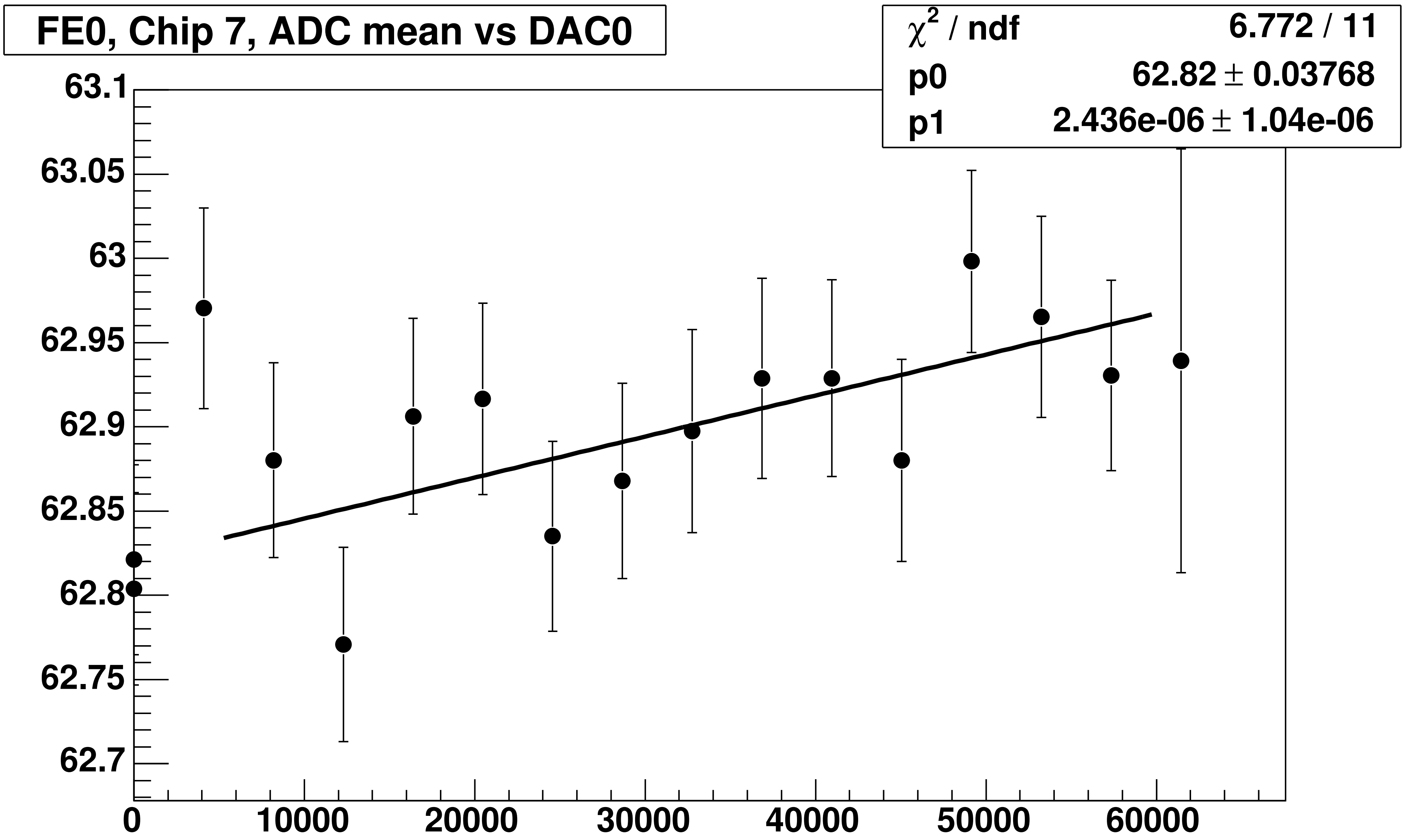

FE0, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



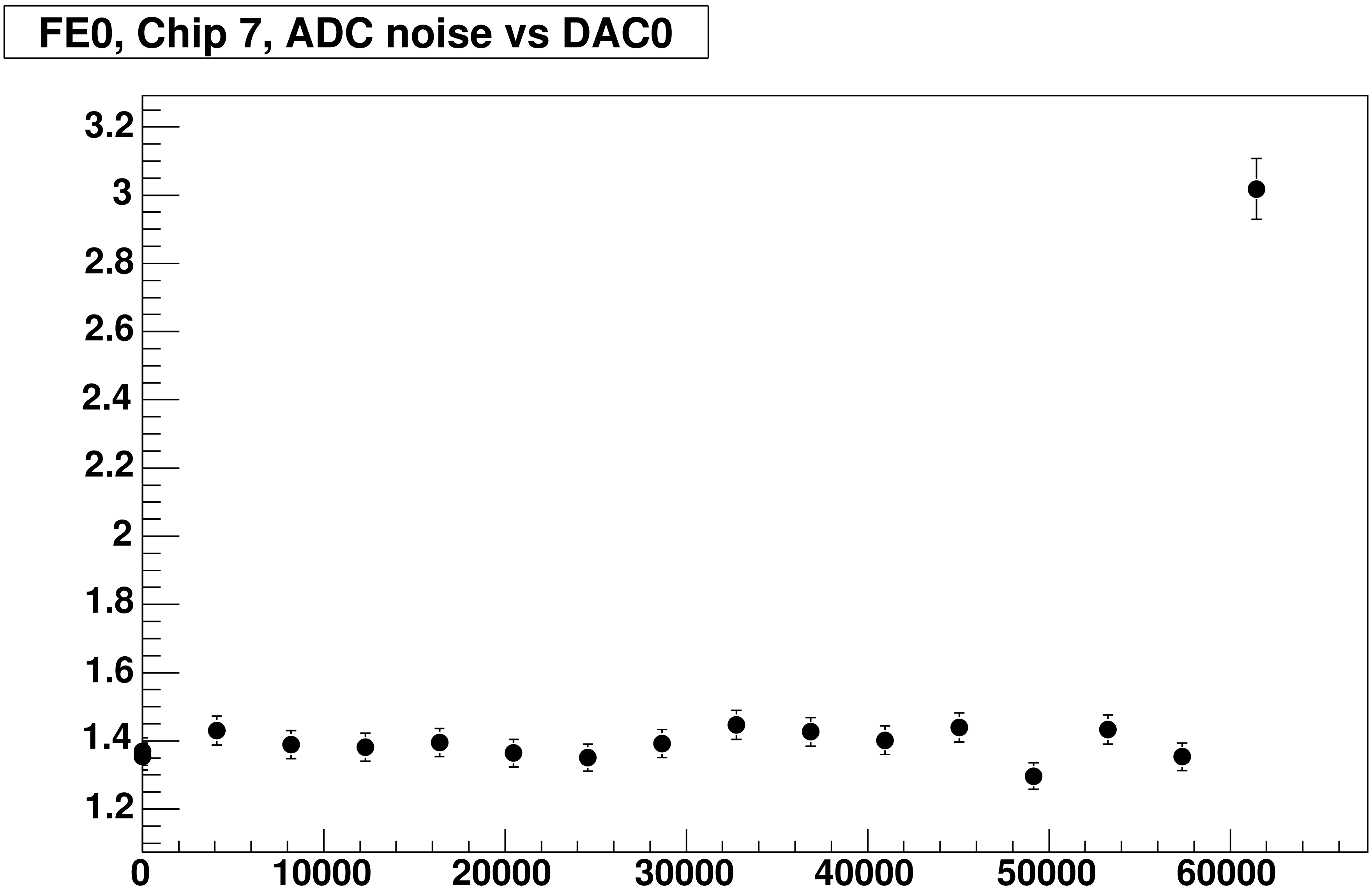
FE0, Chip 6, ADC mean vs DAC1
χ2 / ndf 1435 / 11
p0 62.9 ± 0.0429
p1 0.4515 ± 1.368e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


FE0, 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

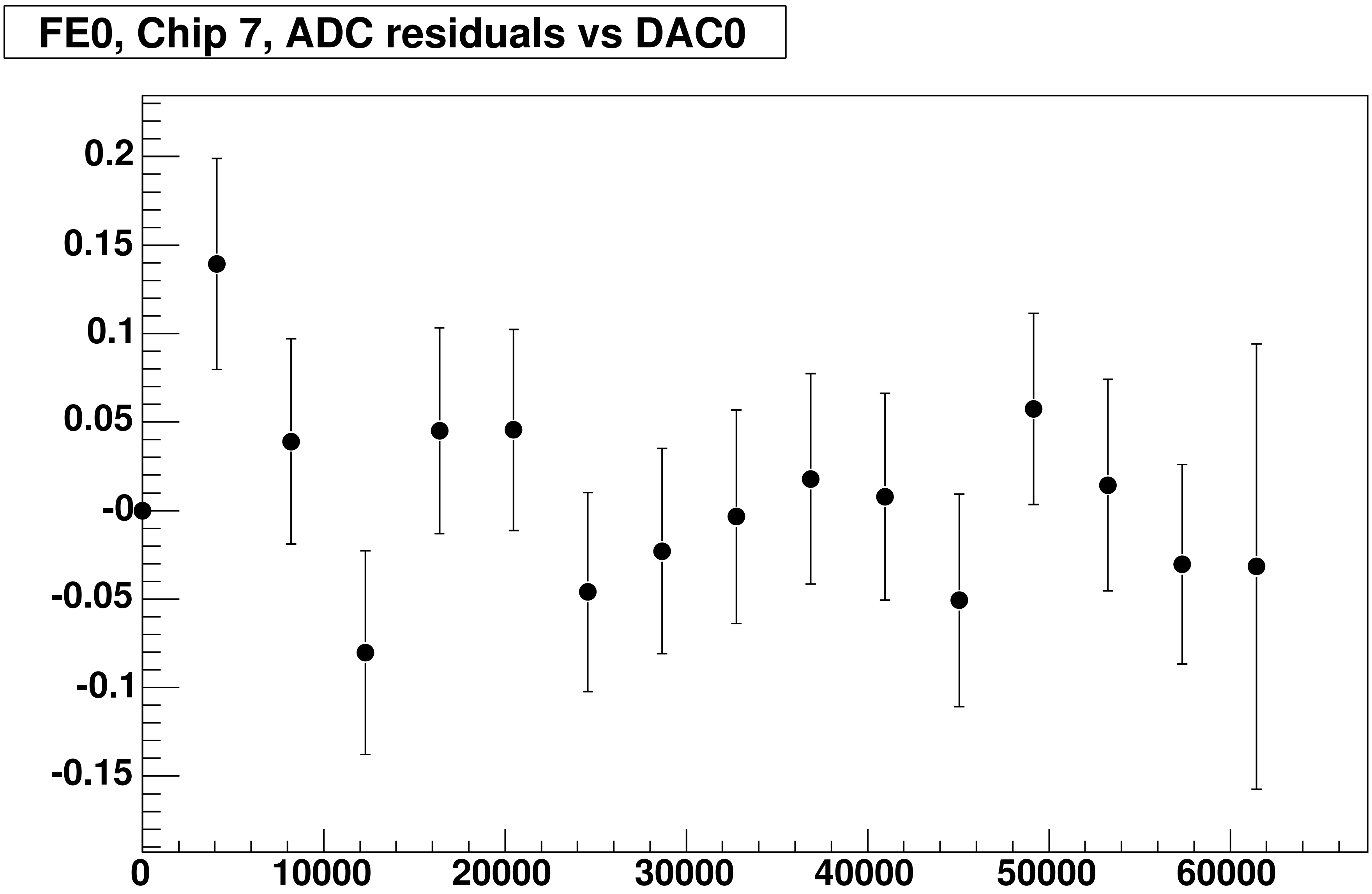

FE0, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



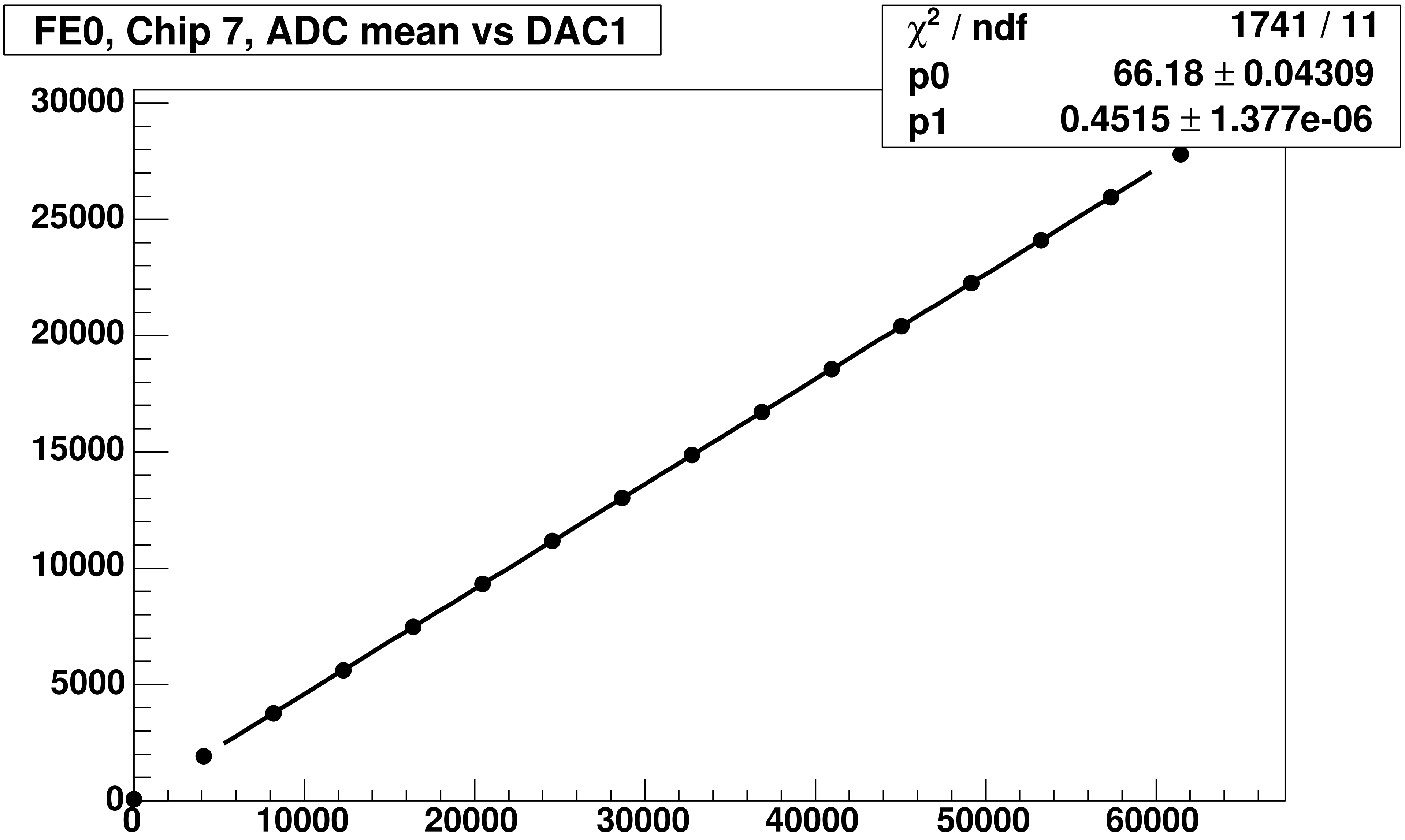
FE0, Chip 7, ADC mean vs DAC0
χ^2 / ndf 6.772 / 11
p0 62.82 ± 0.03768
p1 2.436e-06 ± 1.04e-06
63.1
63.05
63
62.95
62.9
62.85
62.8
62.75
62.7
0
10000
20000
30000
40000
50000
60000



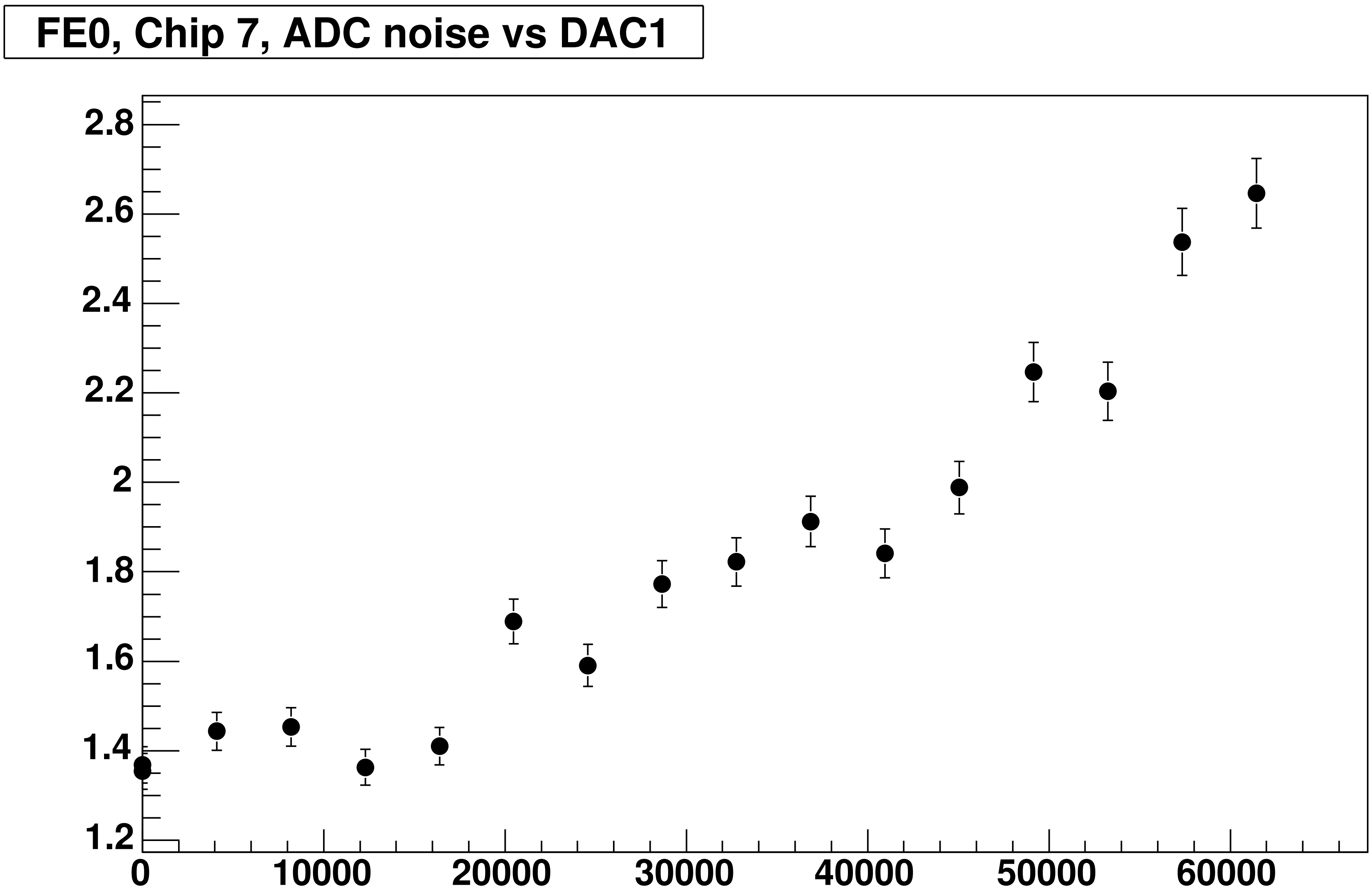
FE0, Chip 7, ADC noise vs DAC0
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



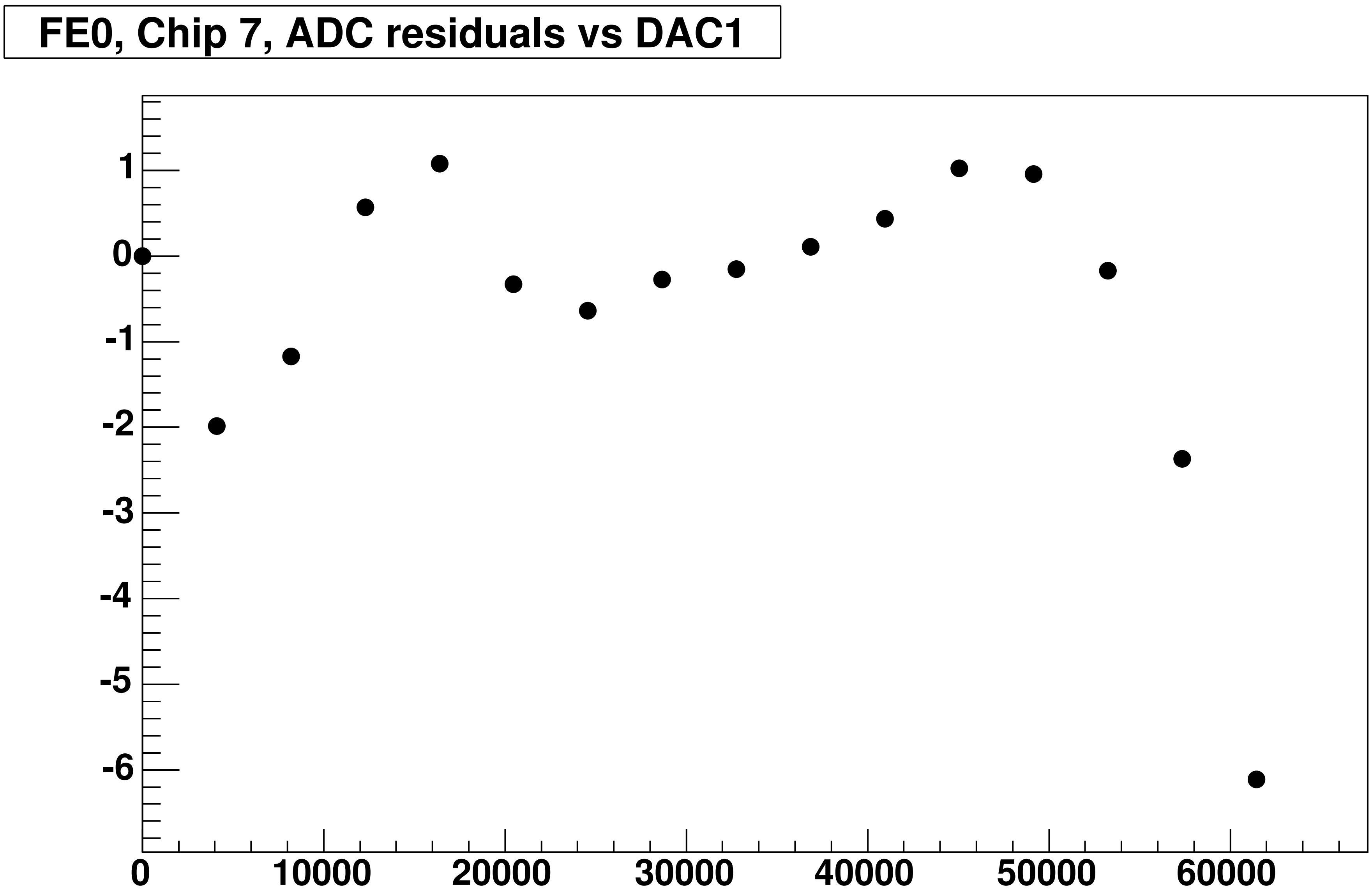
FE0, Chip 7, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

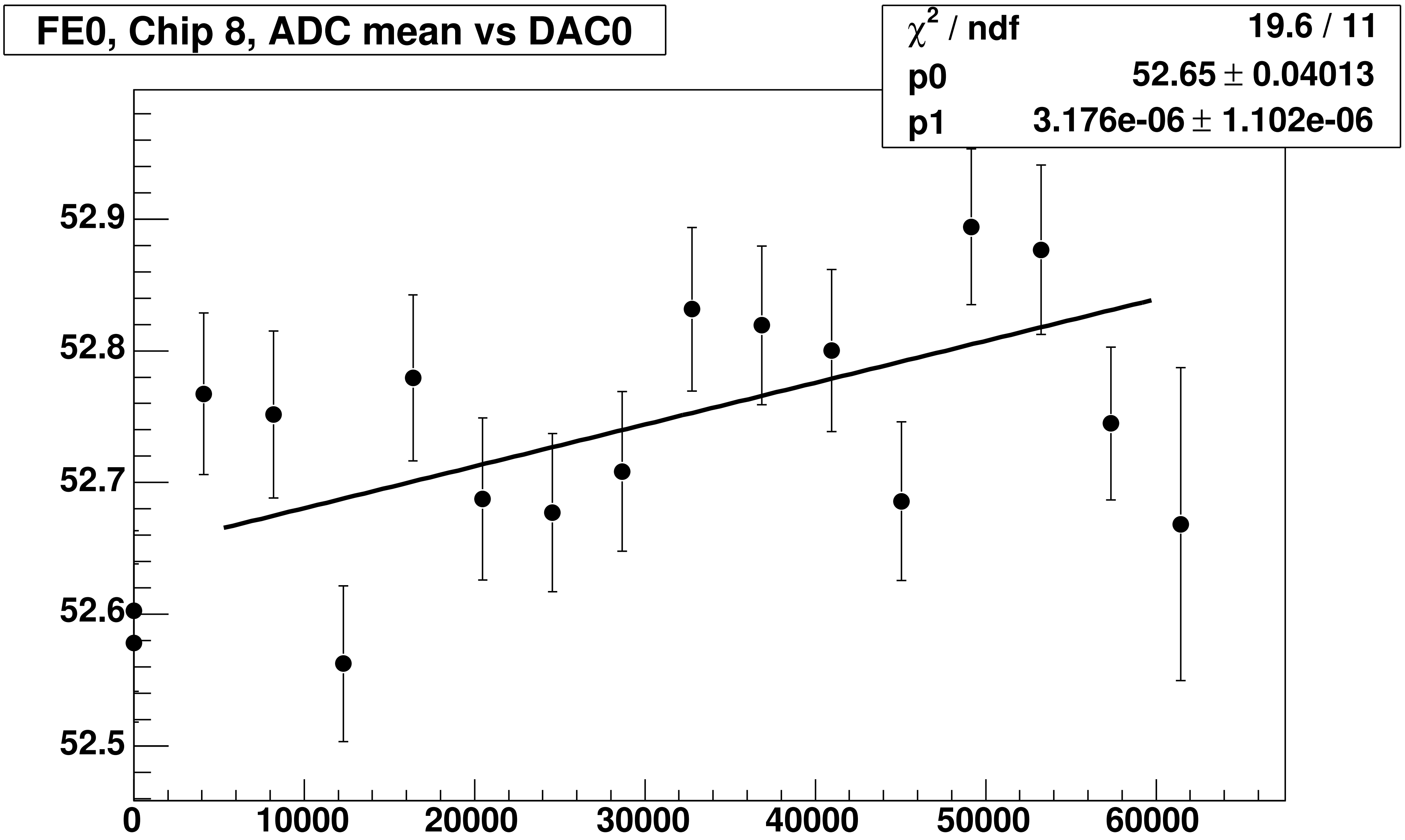


FE0, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1741 / 11
p0 66.18 ± 0.04309
p1 0.4515 ± 1.377e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

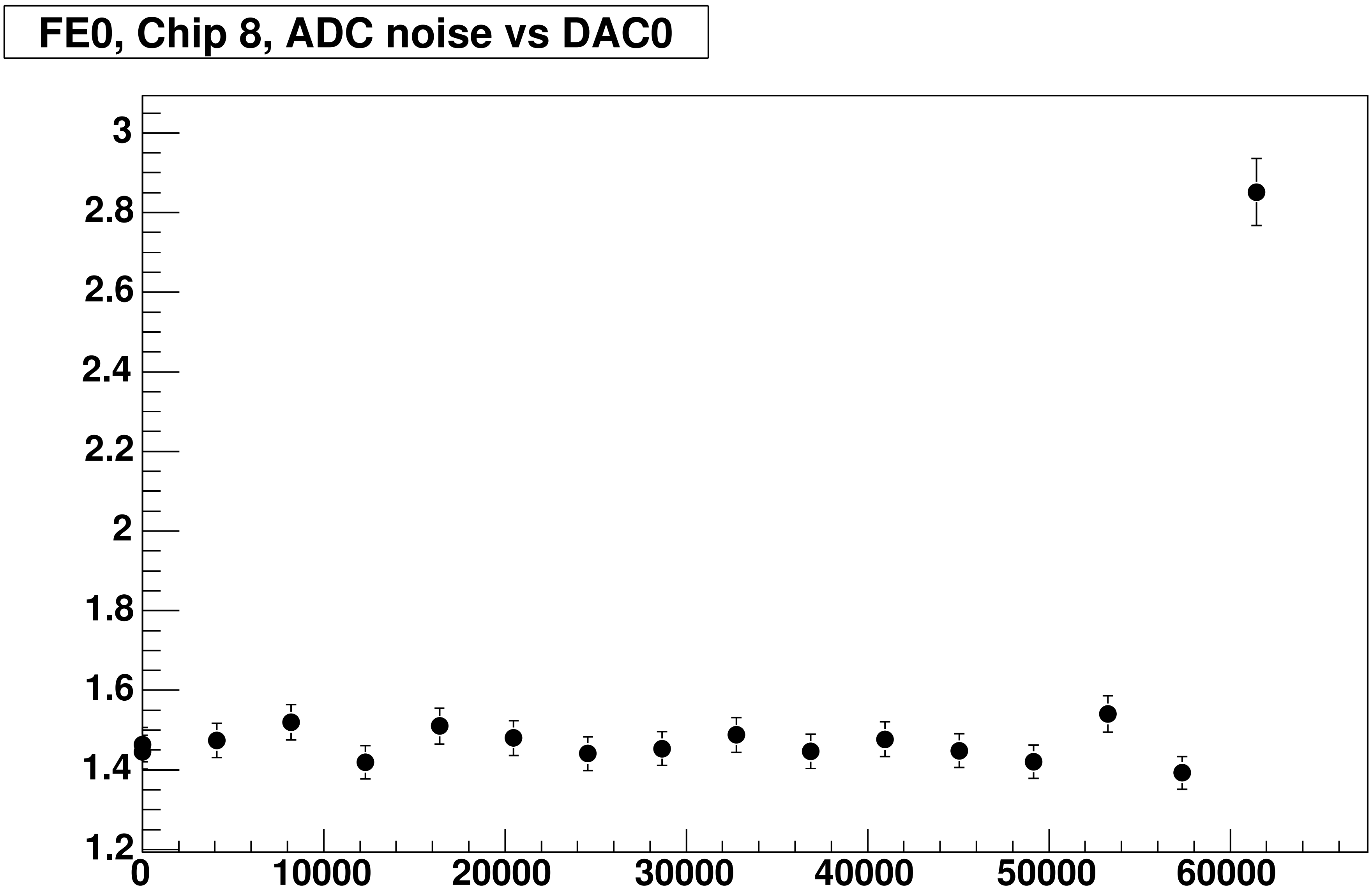


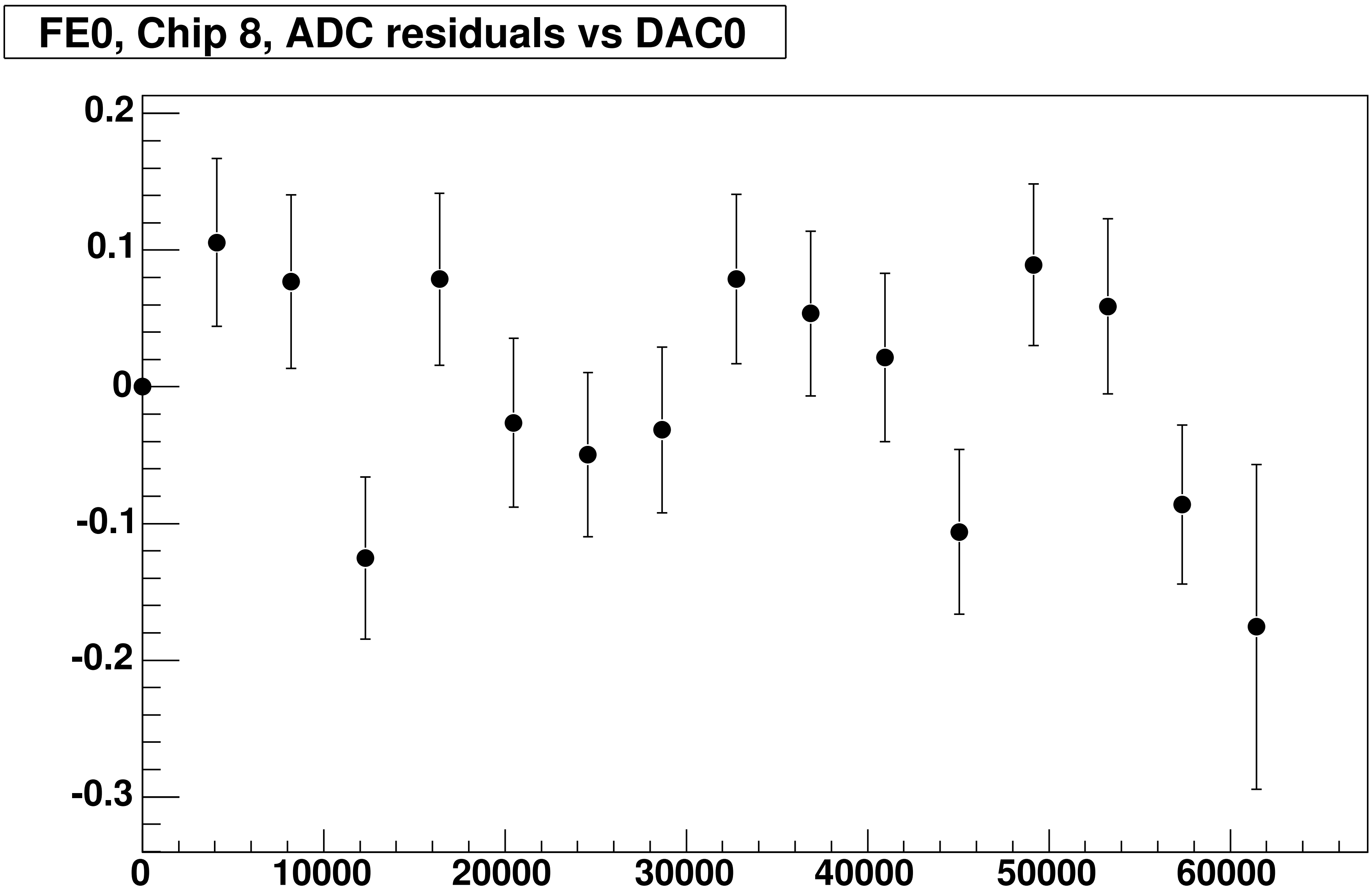
FE0, Chip 7, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

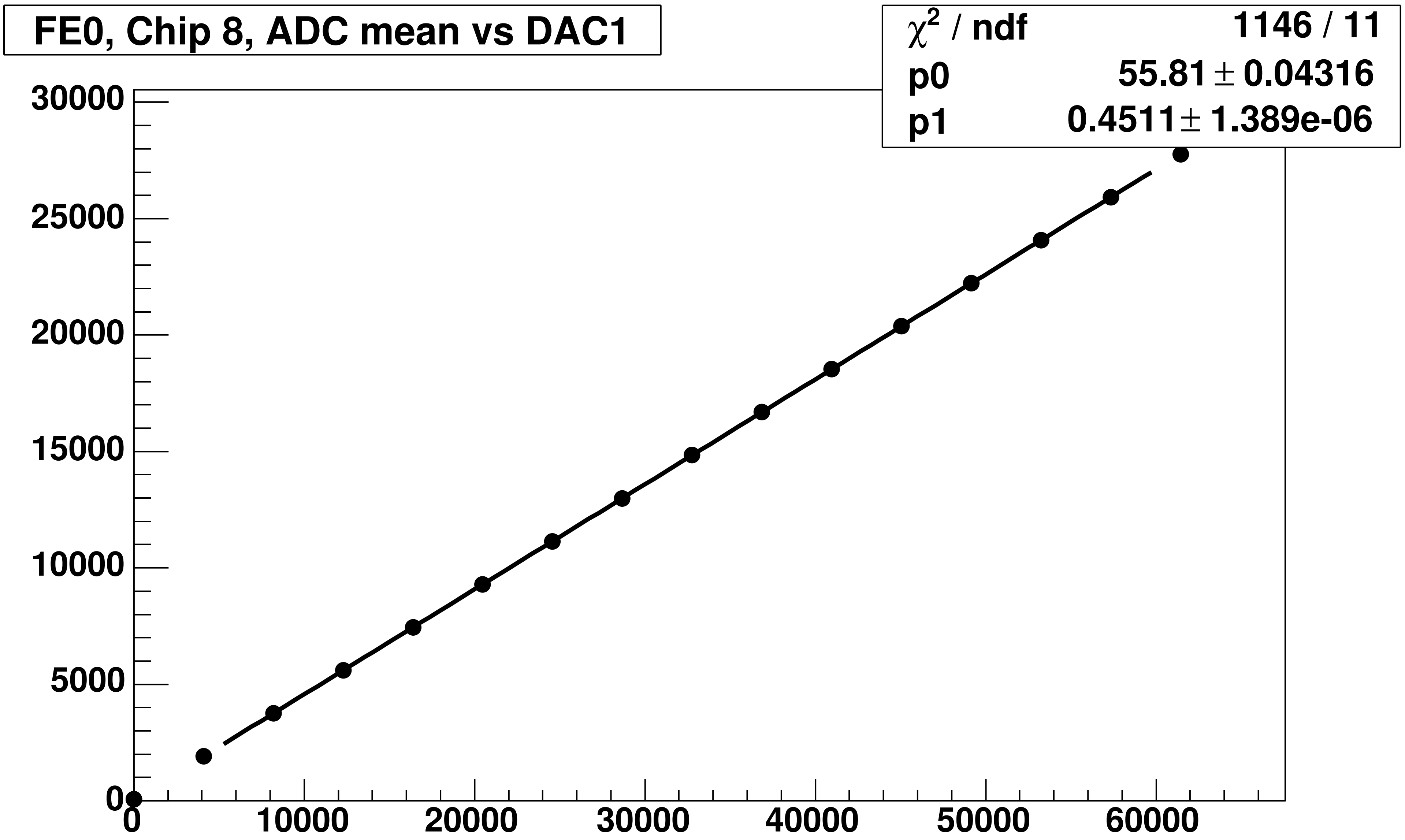


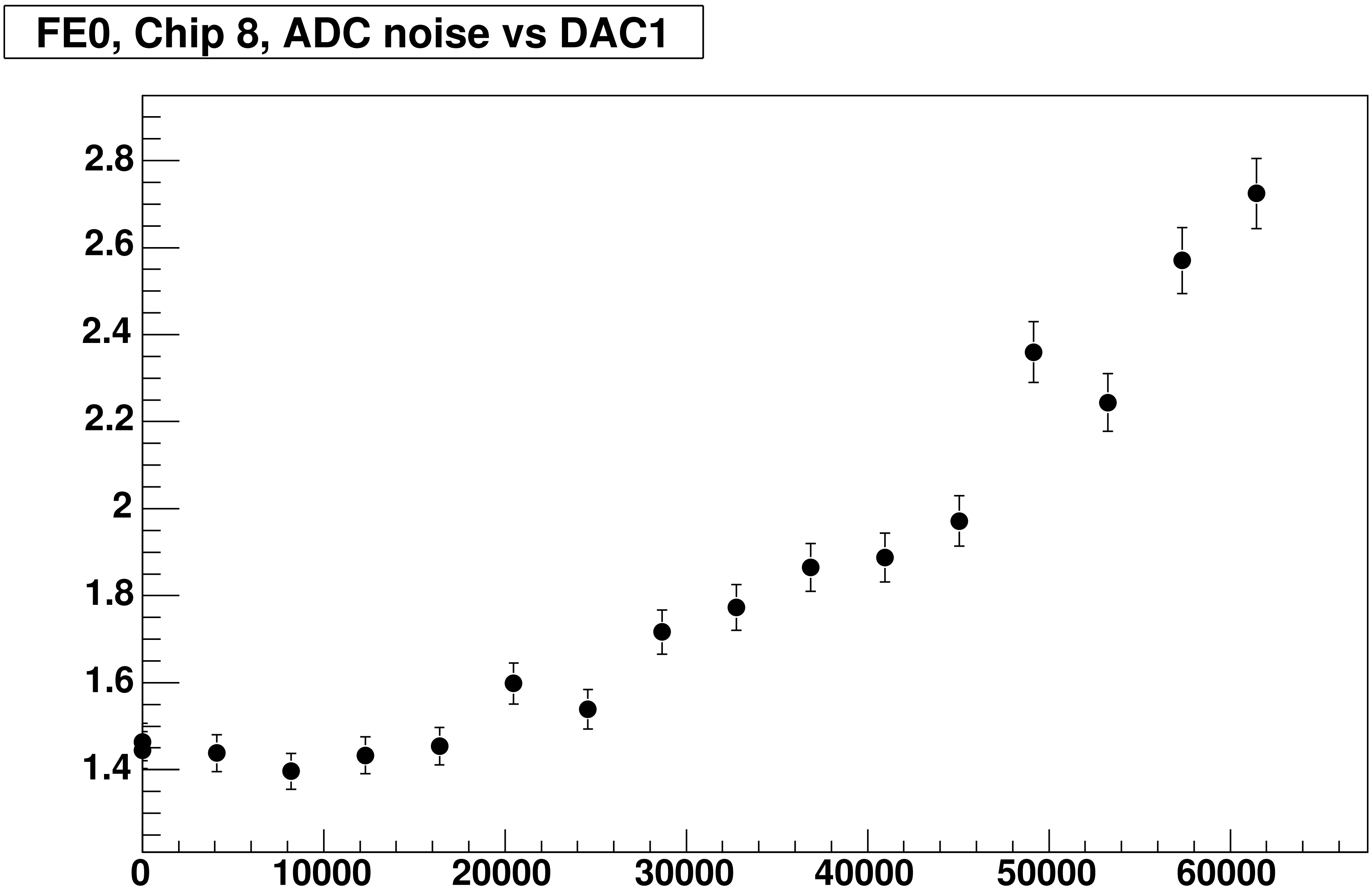
FE0, Chip 8, ADC mean vs DAC0
χ^2 / ndf 19.6 / 11
p0 52.65 ± 0.04013
p1 3.176e-06 ± 1.102e-06
52.5
52.6
52.7
52.8
52.9
0
10000
20000
30000
40000
50000
60000

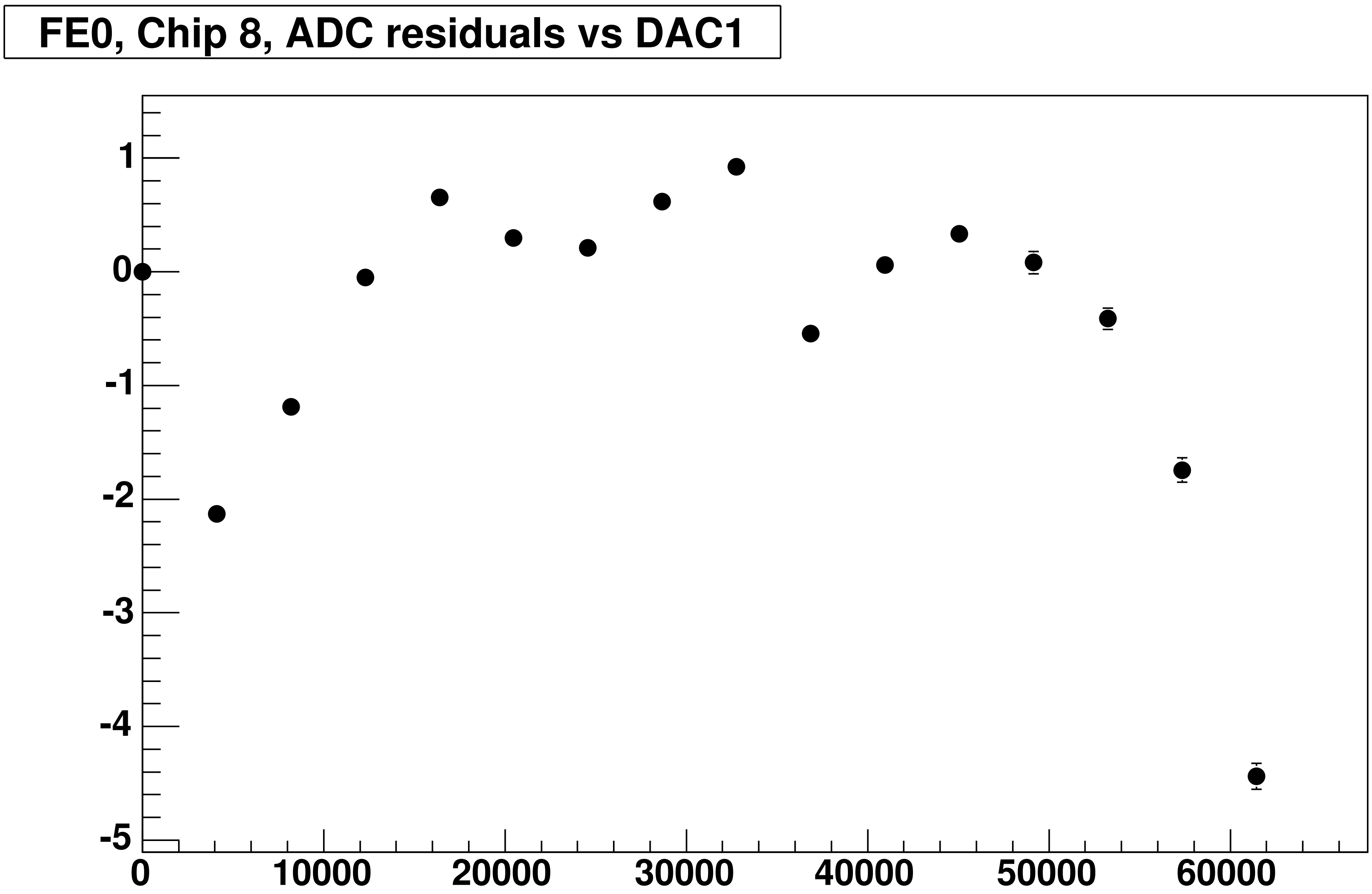

FE0, Chip 8, ADC noise vs DAC0
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



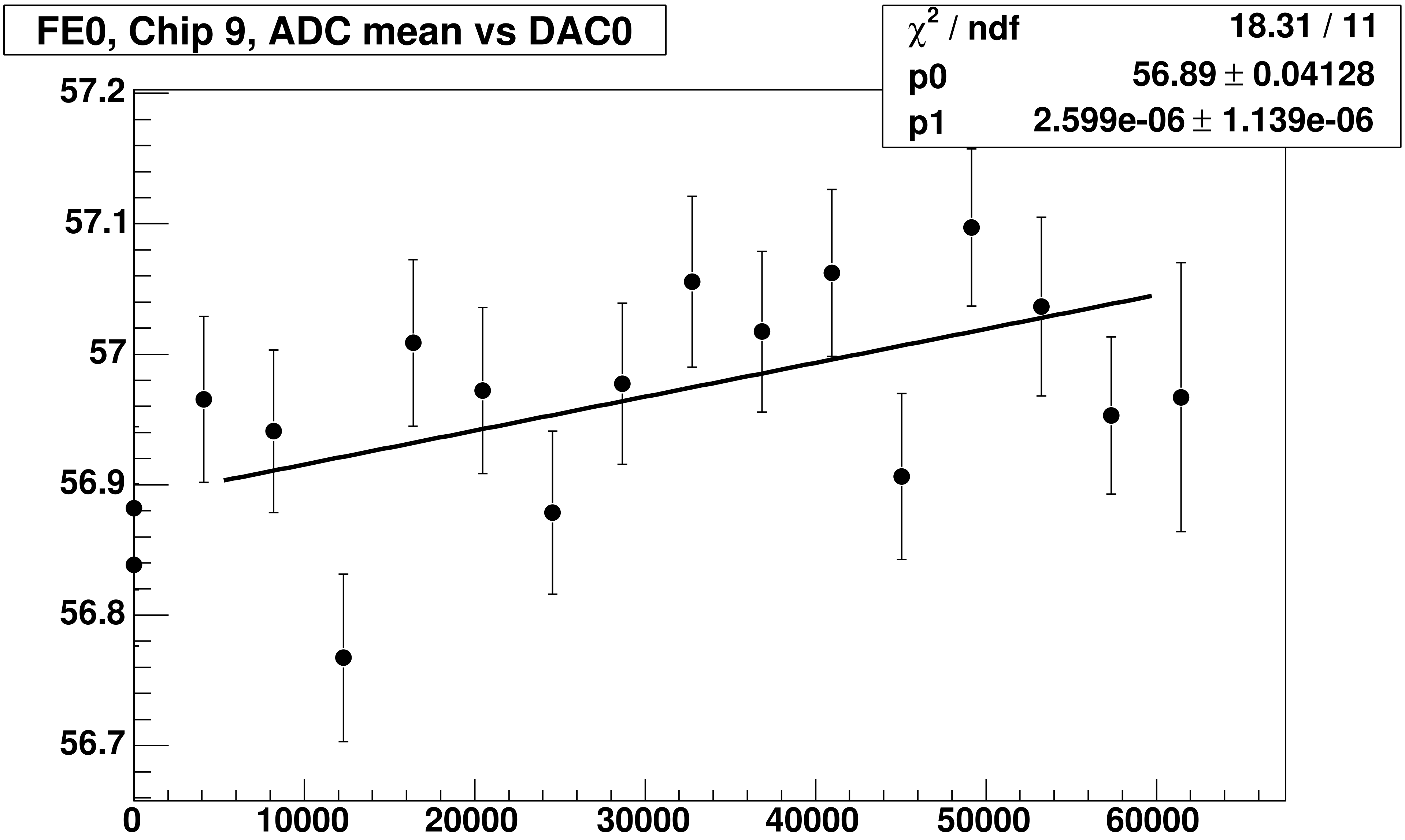
FE0, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE0, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1146 / 11
p0 55.81 ± 0.04316
p1 0.4511 ± 1.389e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

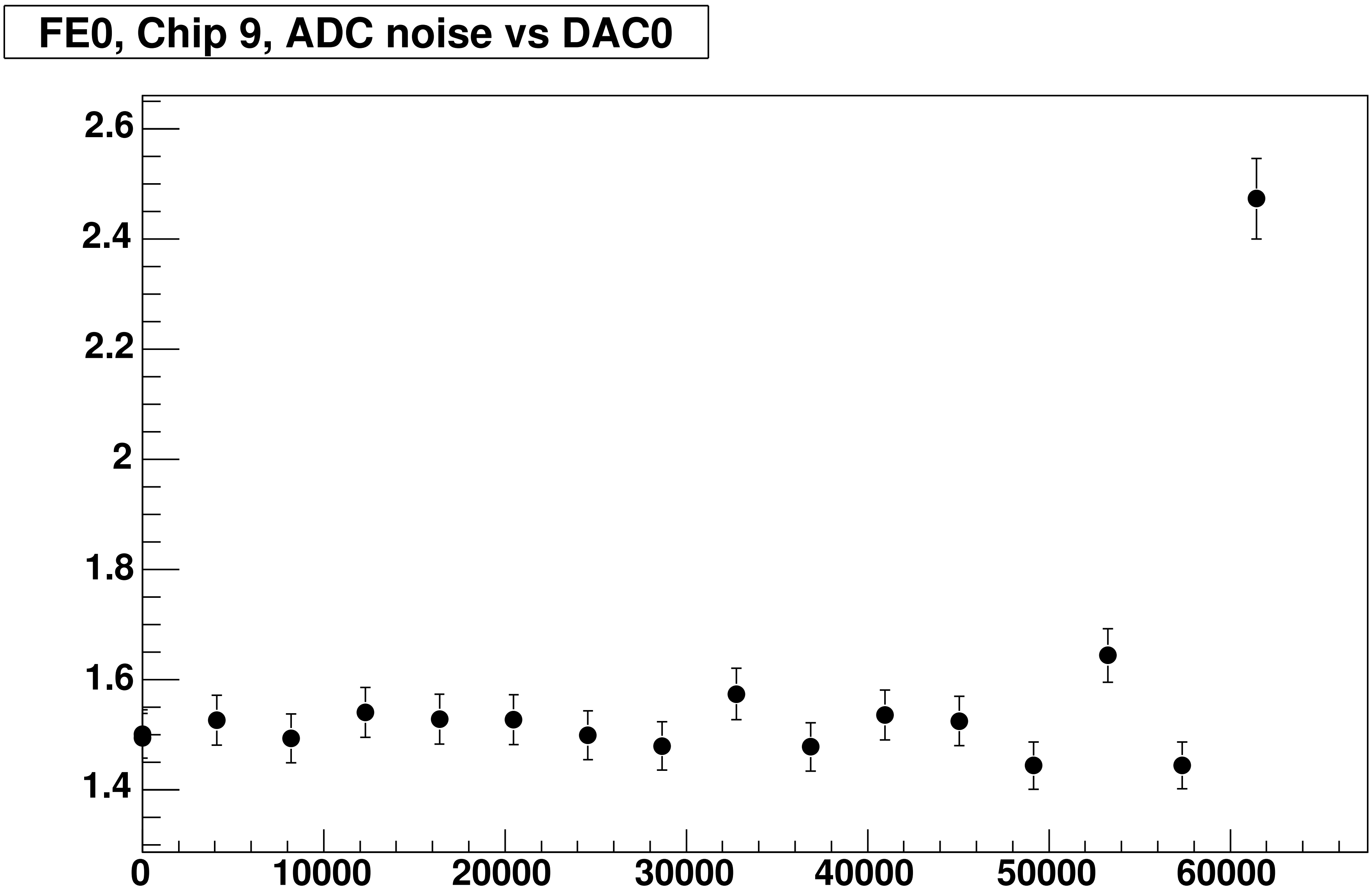

FE0, Chip 8, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

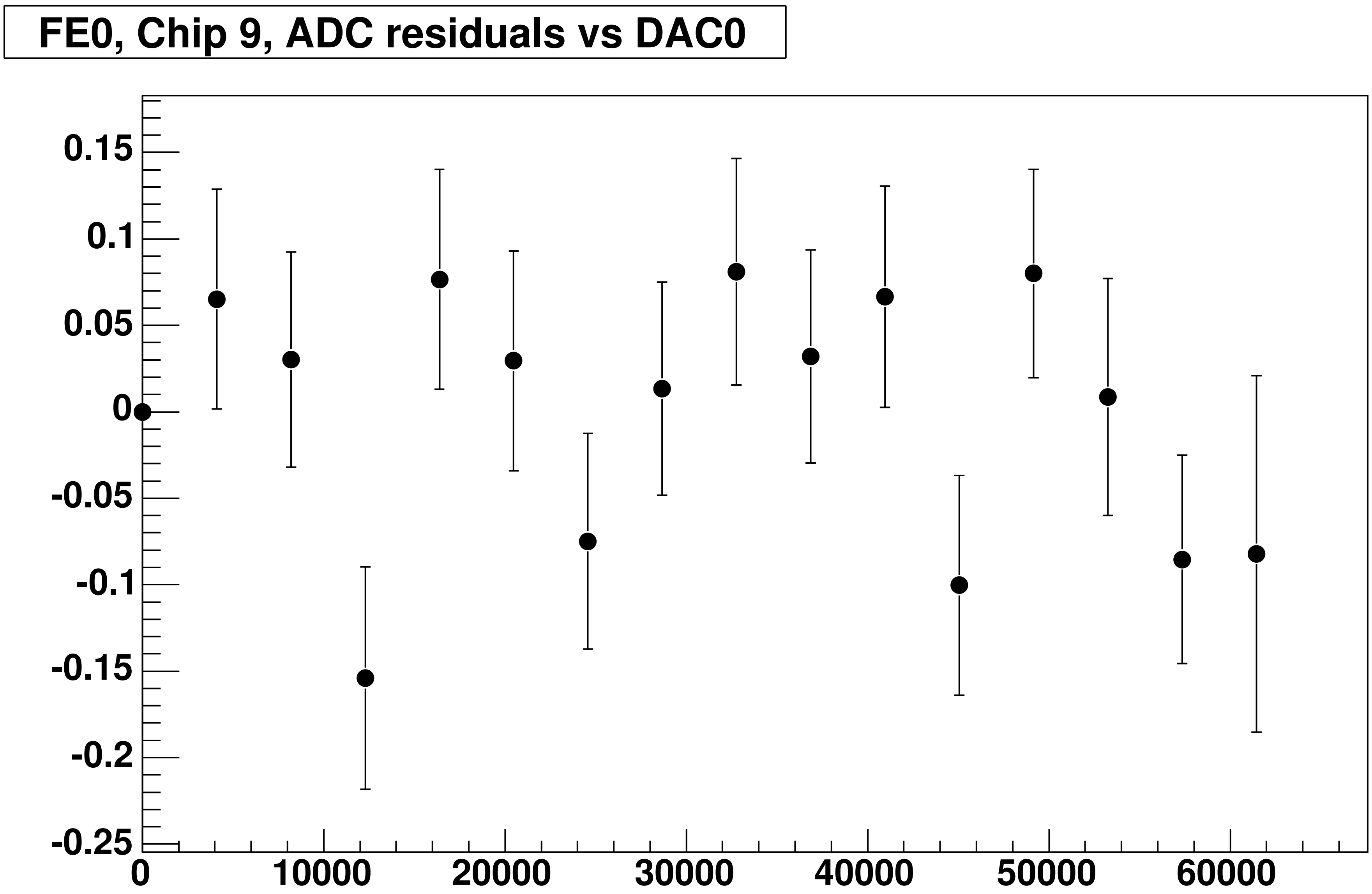


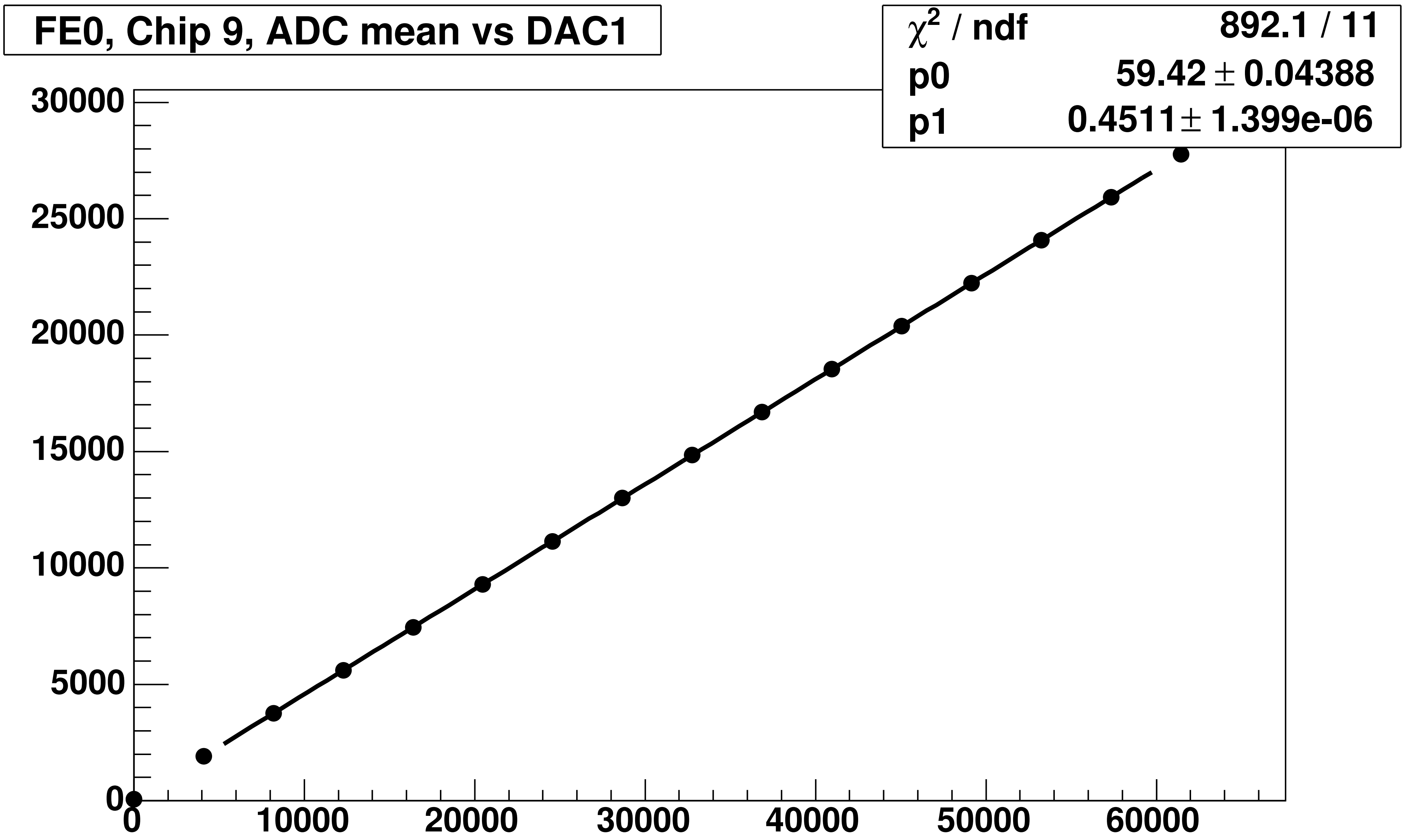
FE0, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

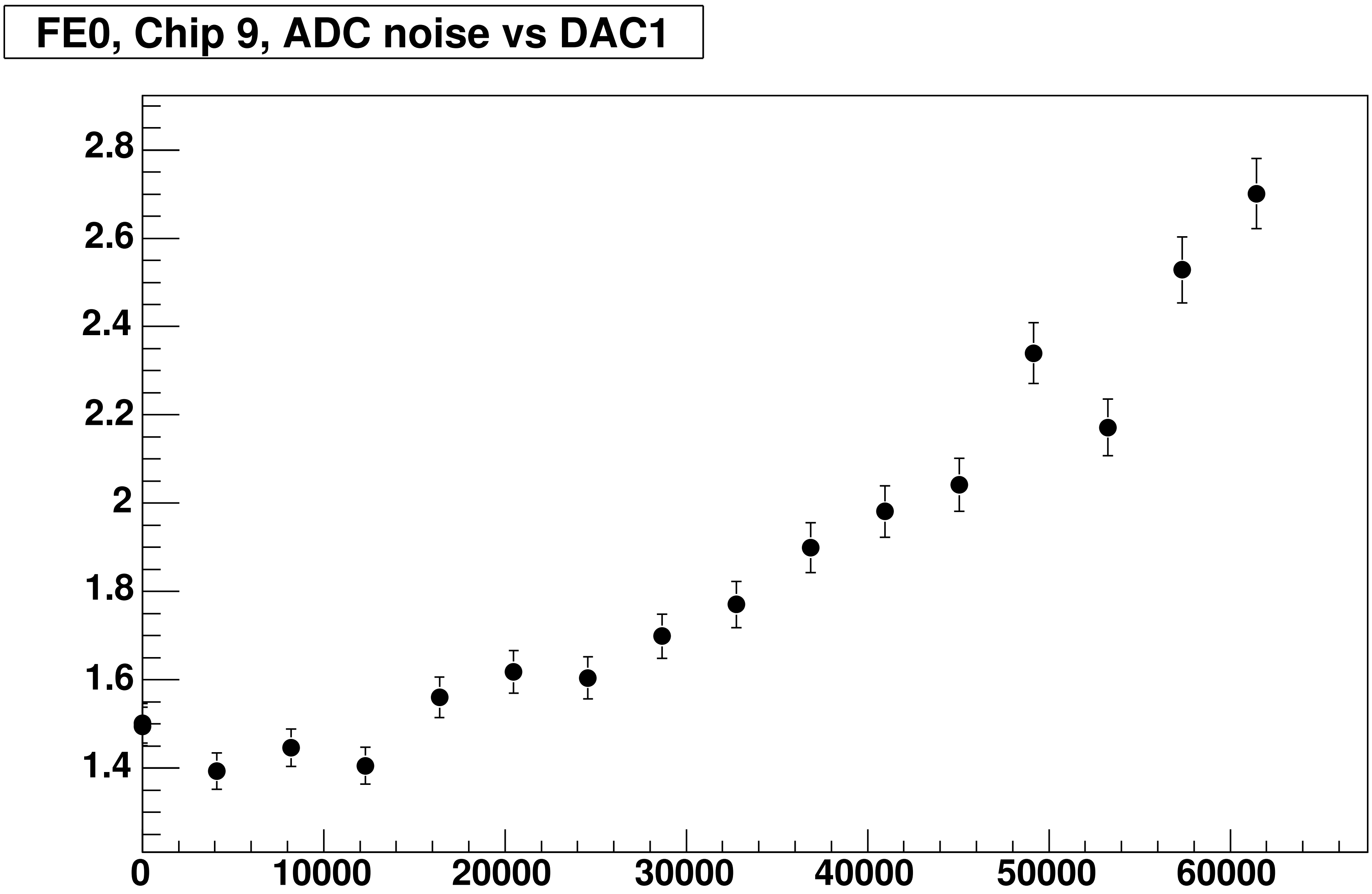


FE0, Chip 9, ADC mean vs DAC0
χ^2 / ndf 18.31 / 11
p0 56.89 ± 0.04128
p1 2.599e-06 ± 1.139e-06
57.2
57.1
57
56.9
56.8
56.7
0
10000
20000
30000
40000
50000
60000

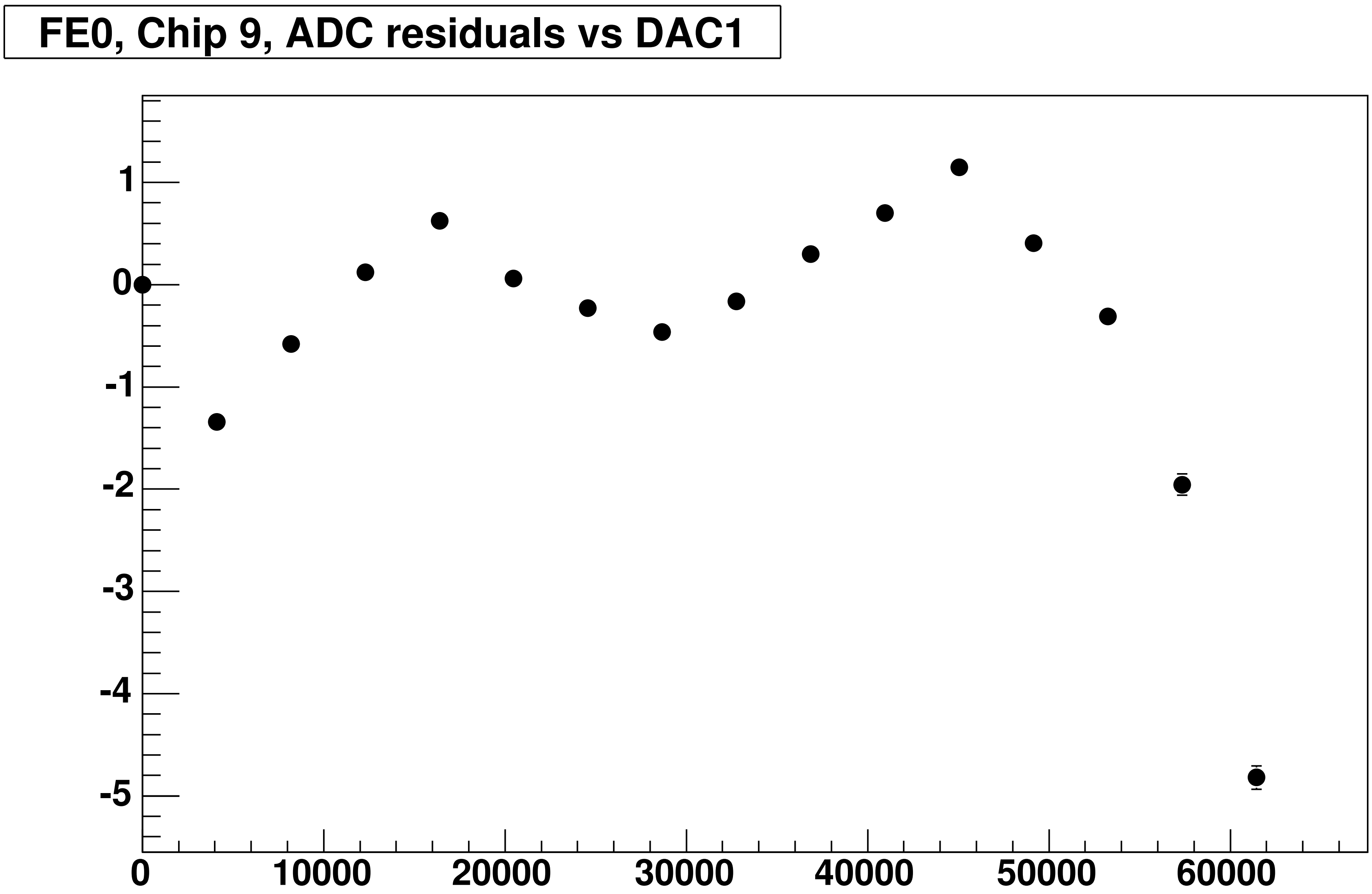

FE0, Chip 9, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

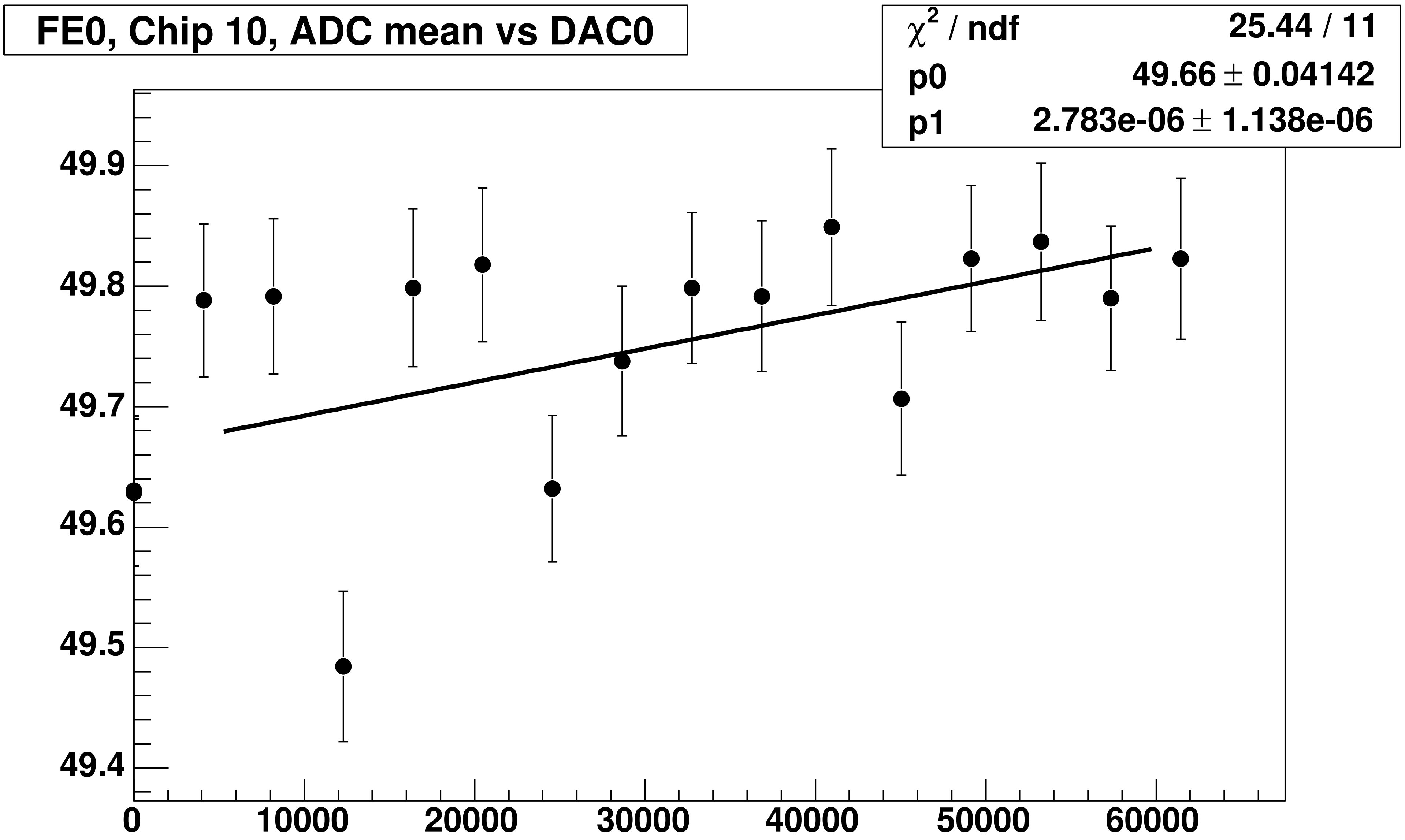

FE0, Chip 9, ADC residuals vs DAC0
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000


FE0, Chip 9, ADC mean vs DAC1
χ^2 / ndf 892.1 / 11
p0 59.42 ± 0.04388
p1 0.4511 ± 1.399e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

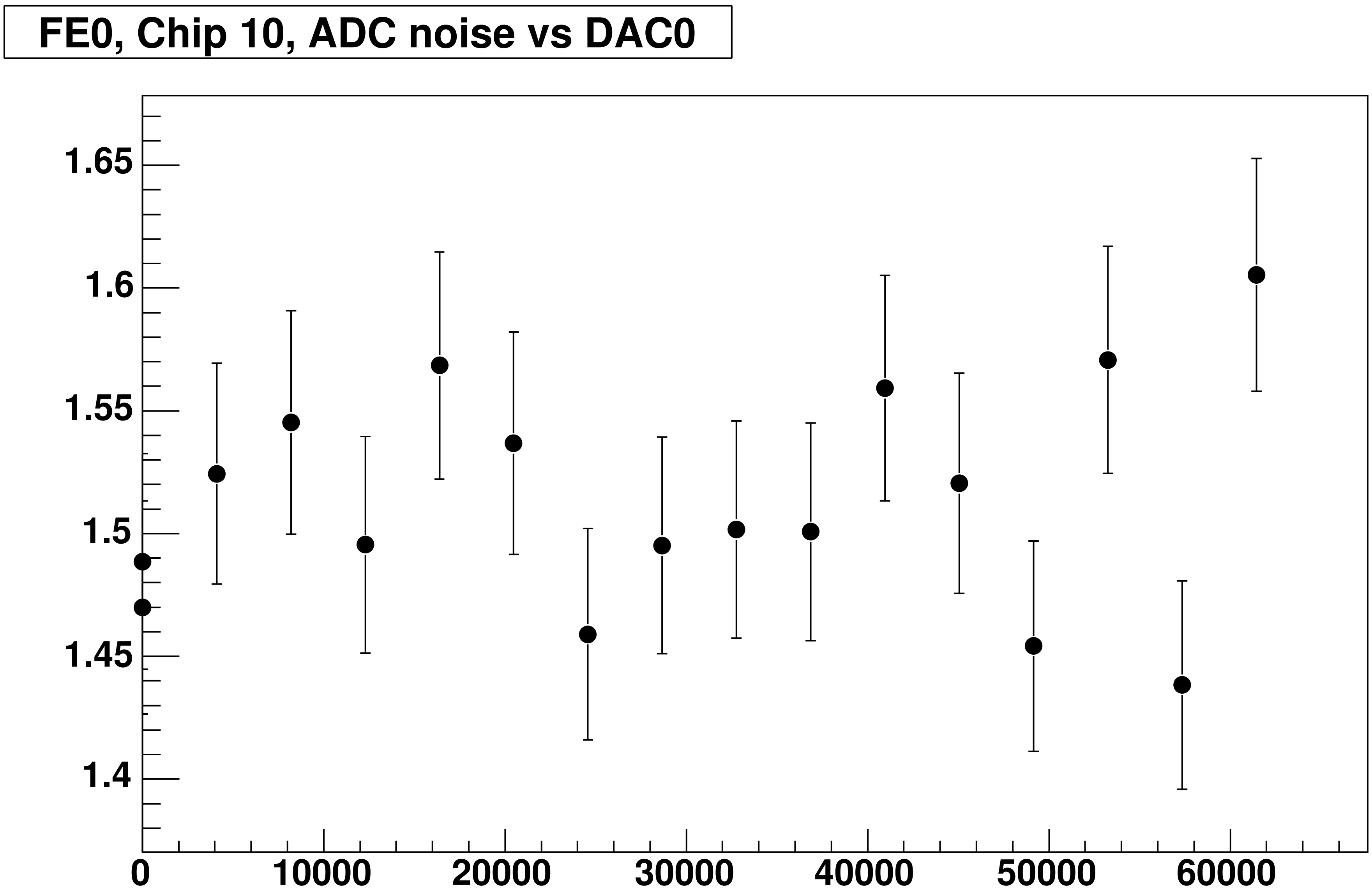


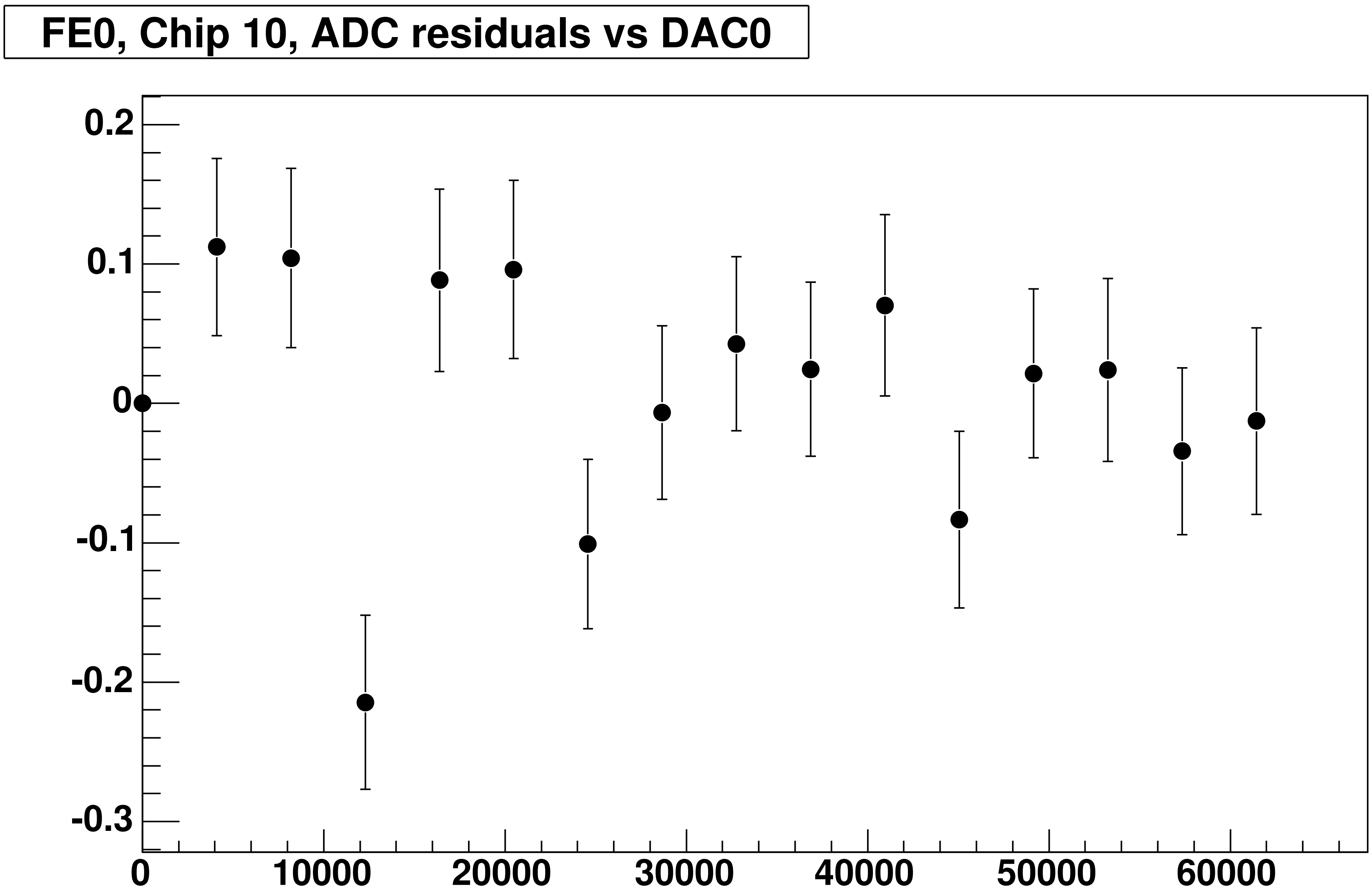
FE0, Chip 9, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

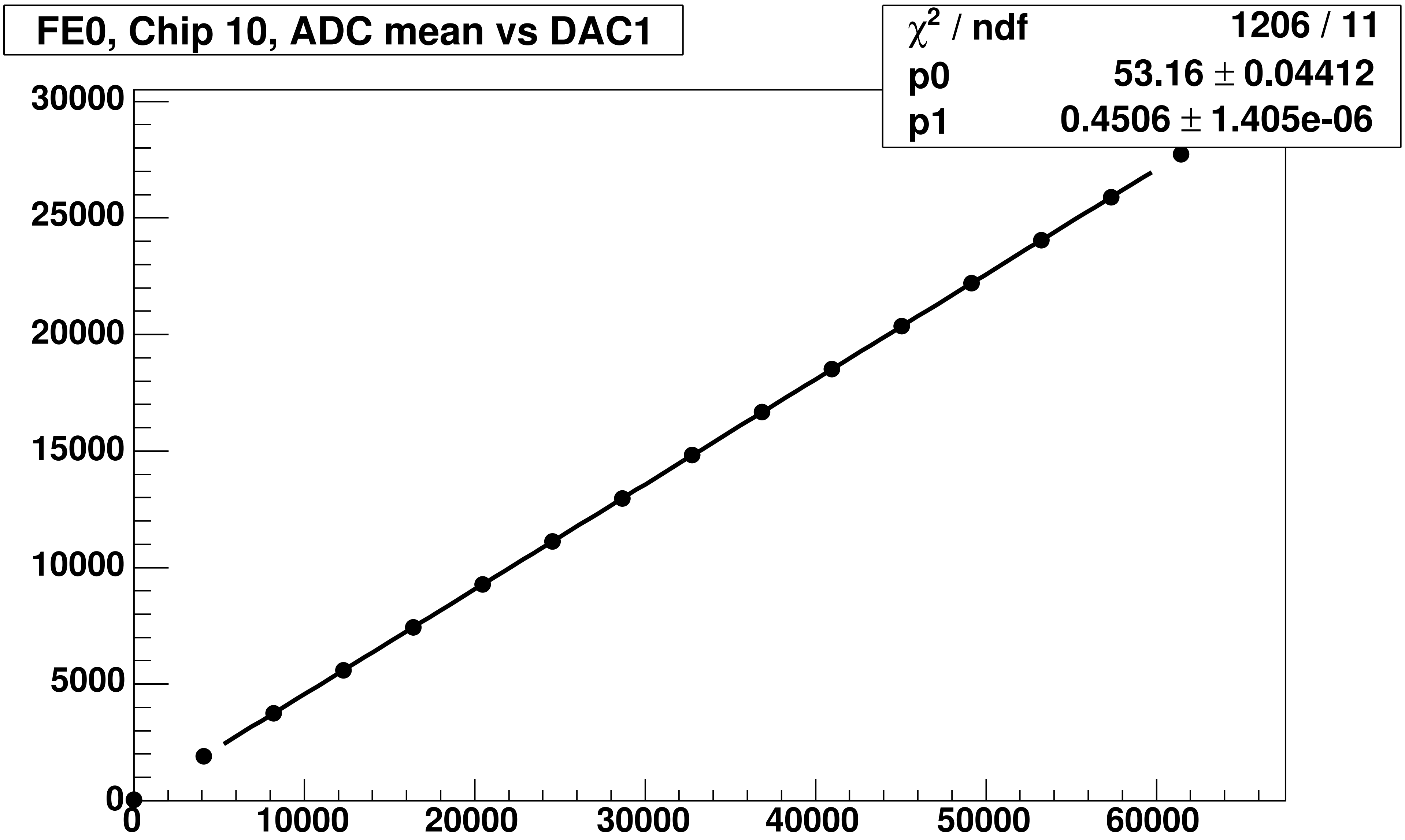


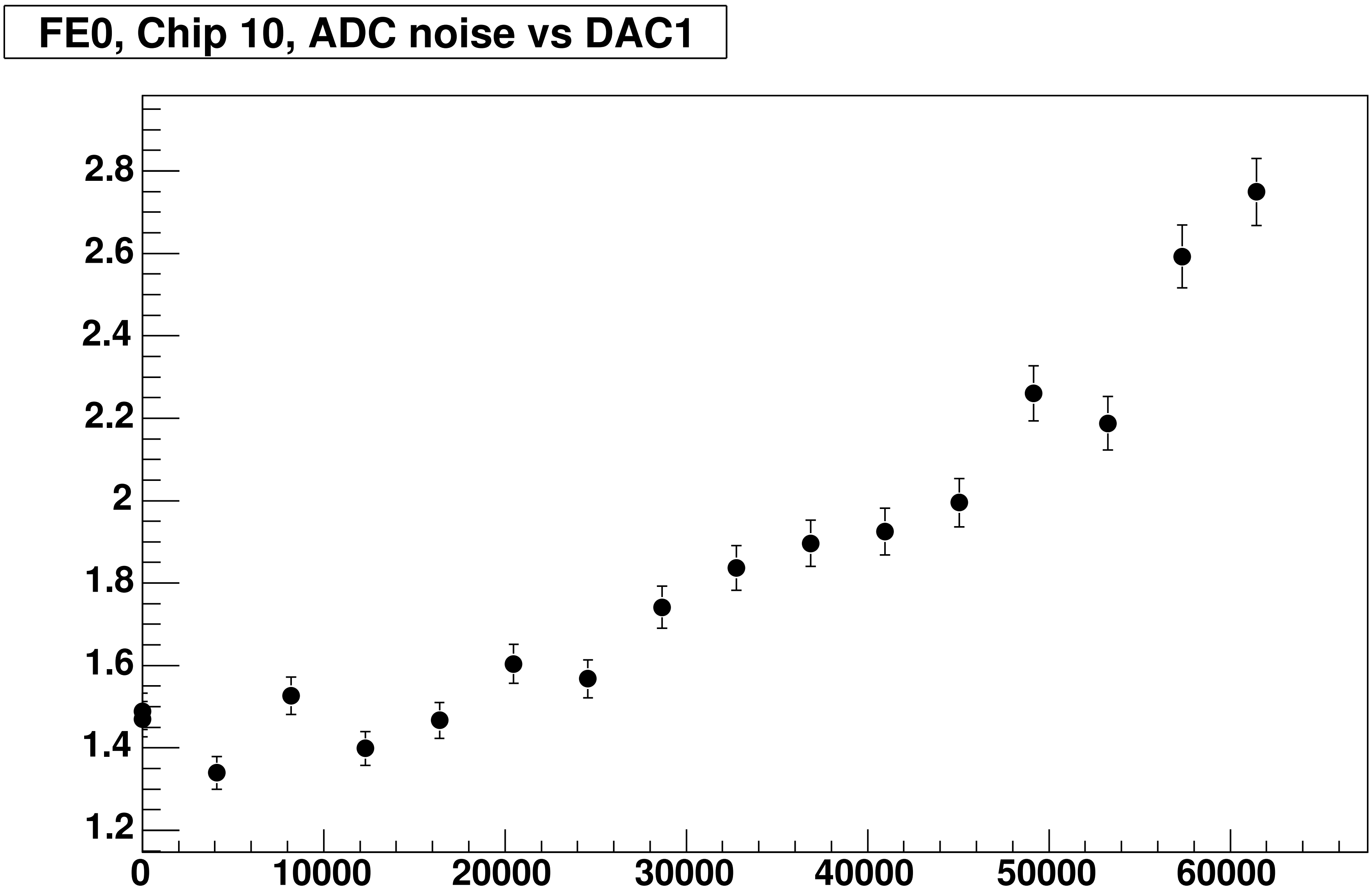
FE0, Chip 10, ADC mean vs DAC0
χ^2 / ndf 25.44 / 11
p0 49.66 ± 0.04142
p1 2.783e-06 ± 1.138e-06
49.9
49.8
49.7
49.6
49.5
49.4
0
10000
20000
30000
40000
50000
60000

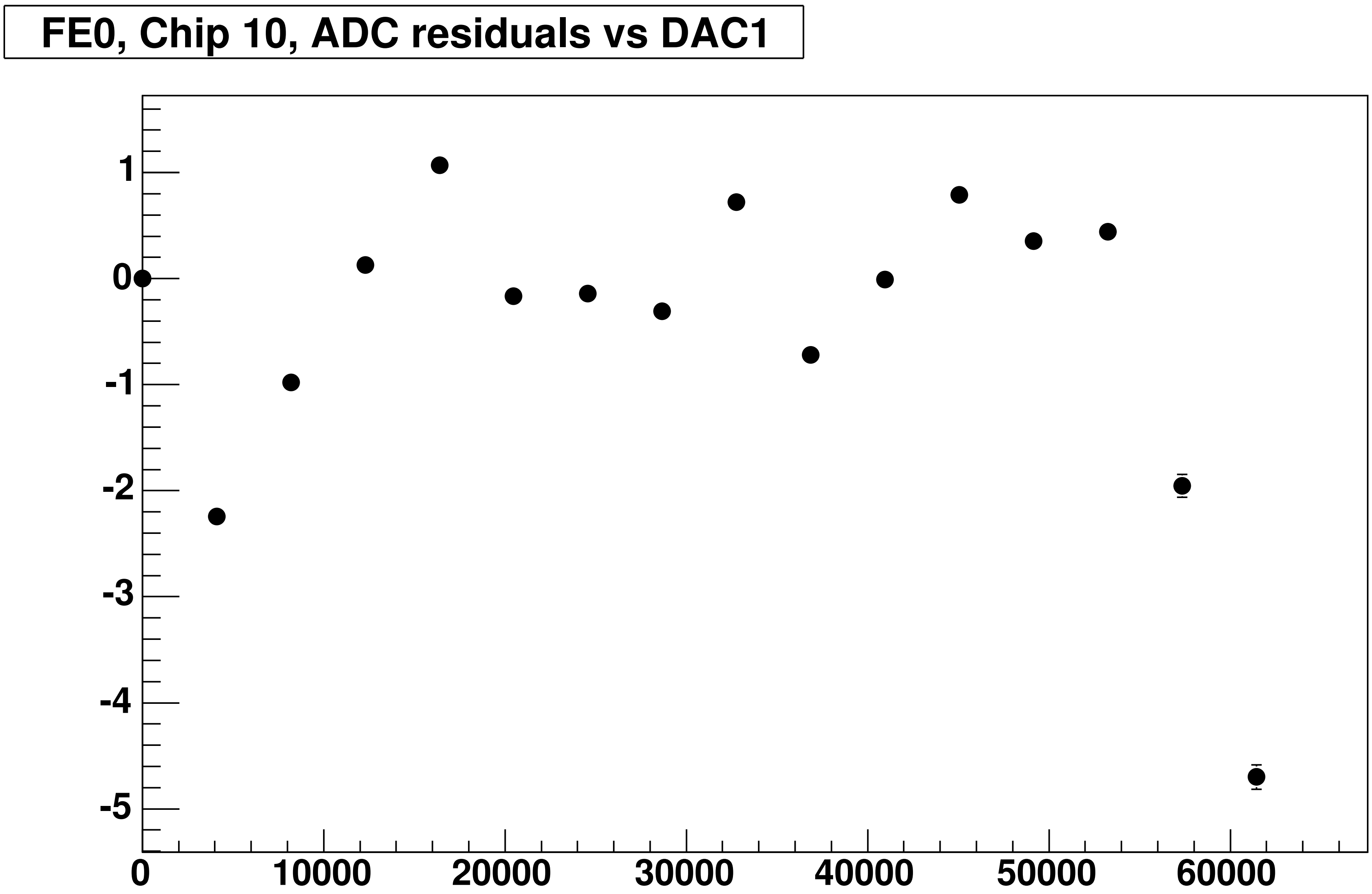

FE0, Chip 10, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000



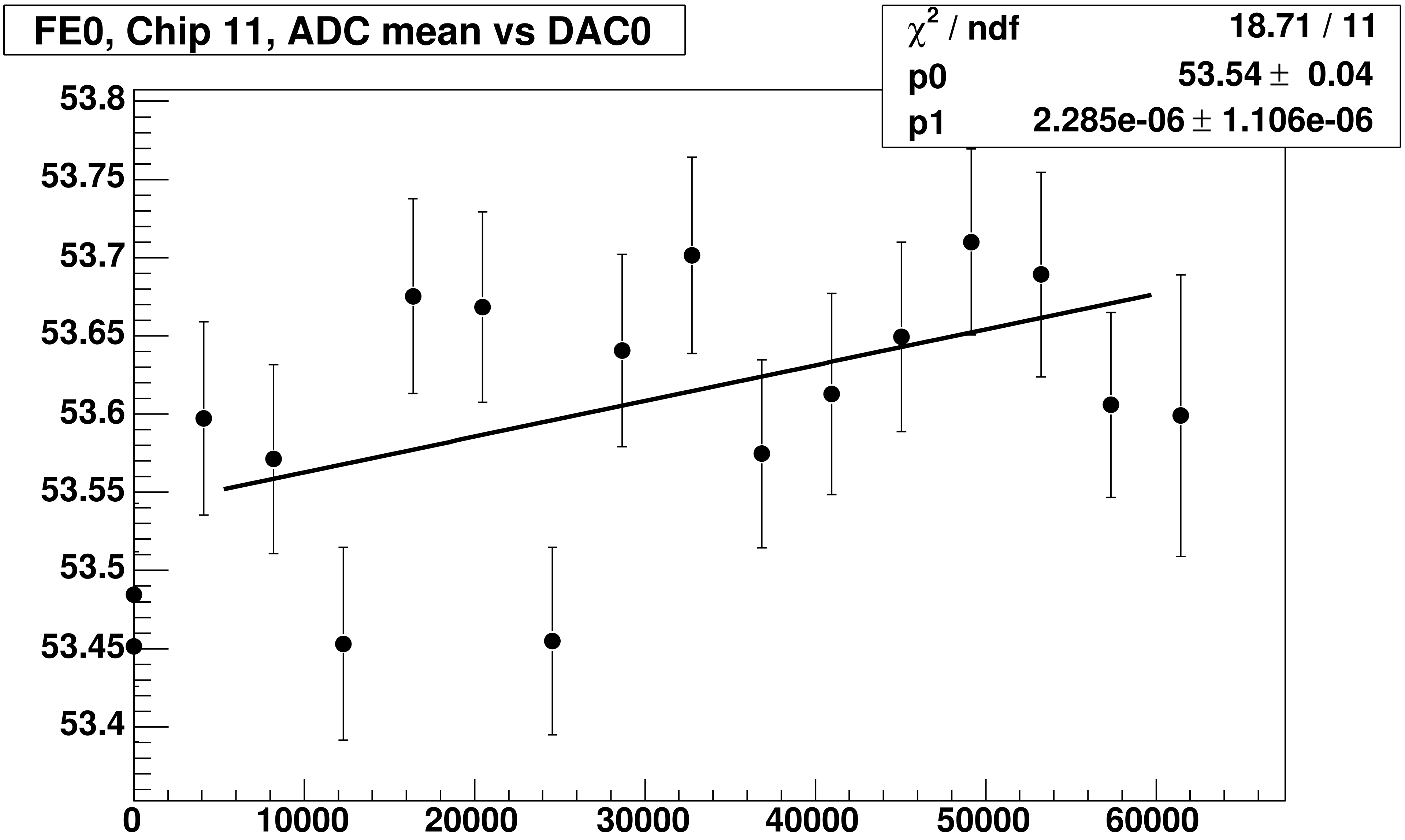
FE0, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE0, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1206 / 11
p0 53.16 ± 0.04412
p1 0.4506 ± 1.405e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

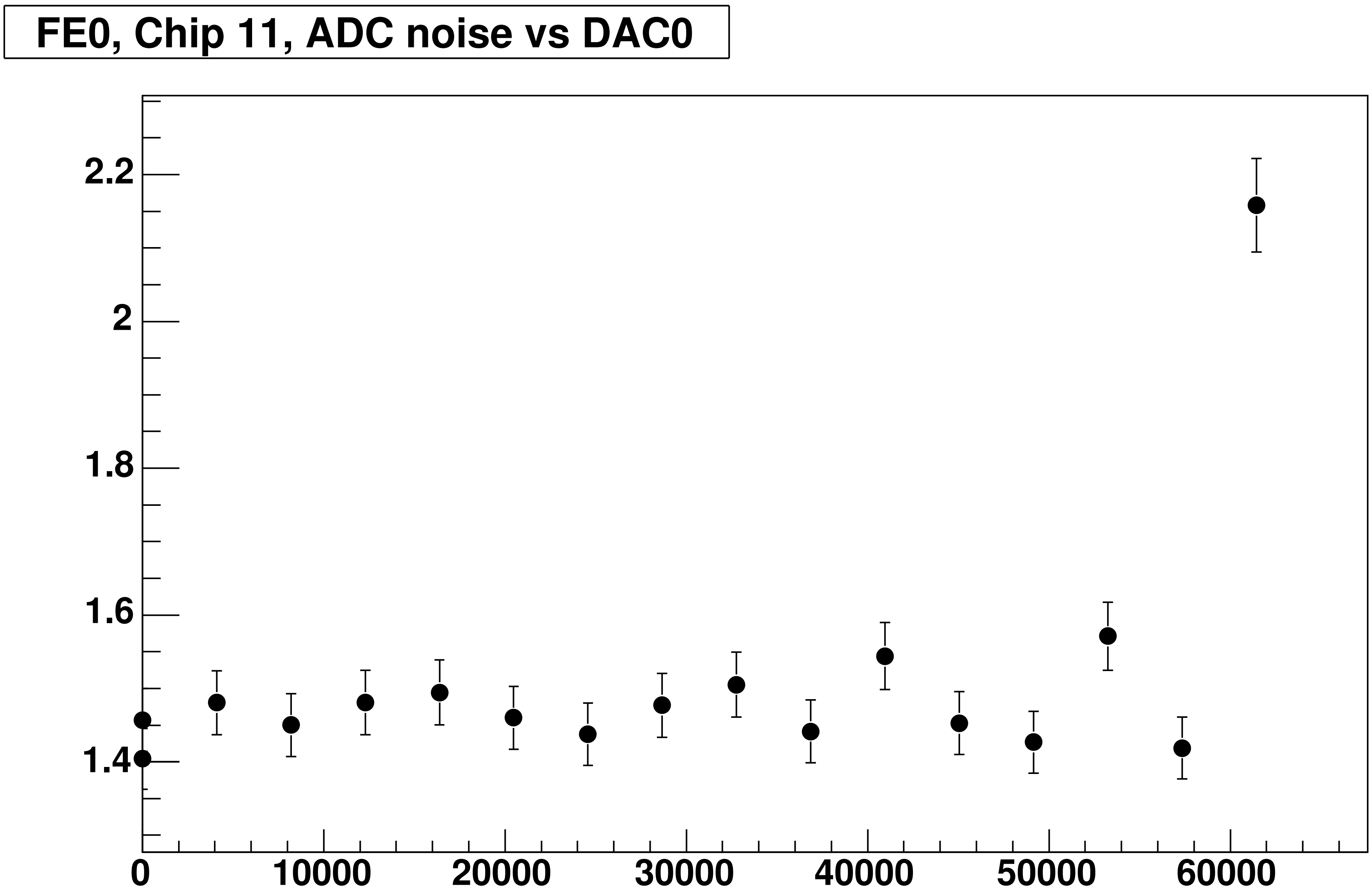

FE0, Chip 10, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

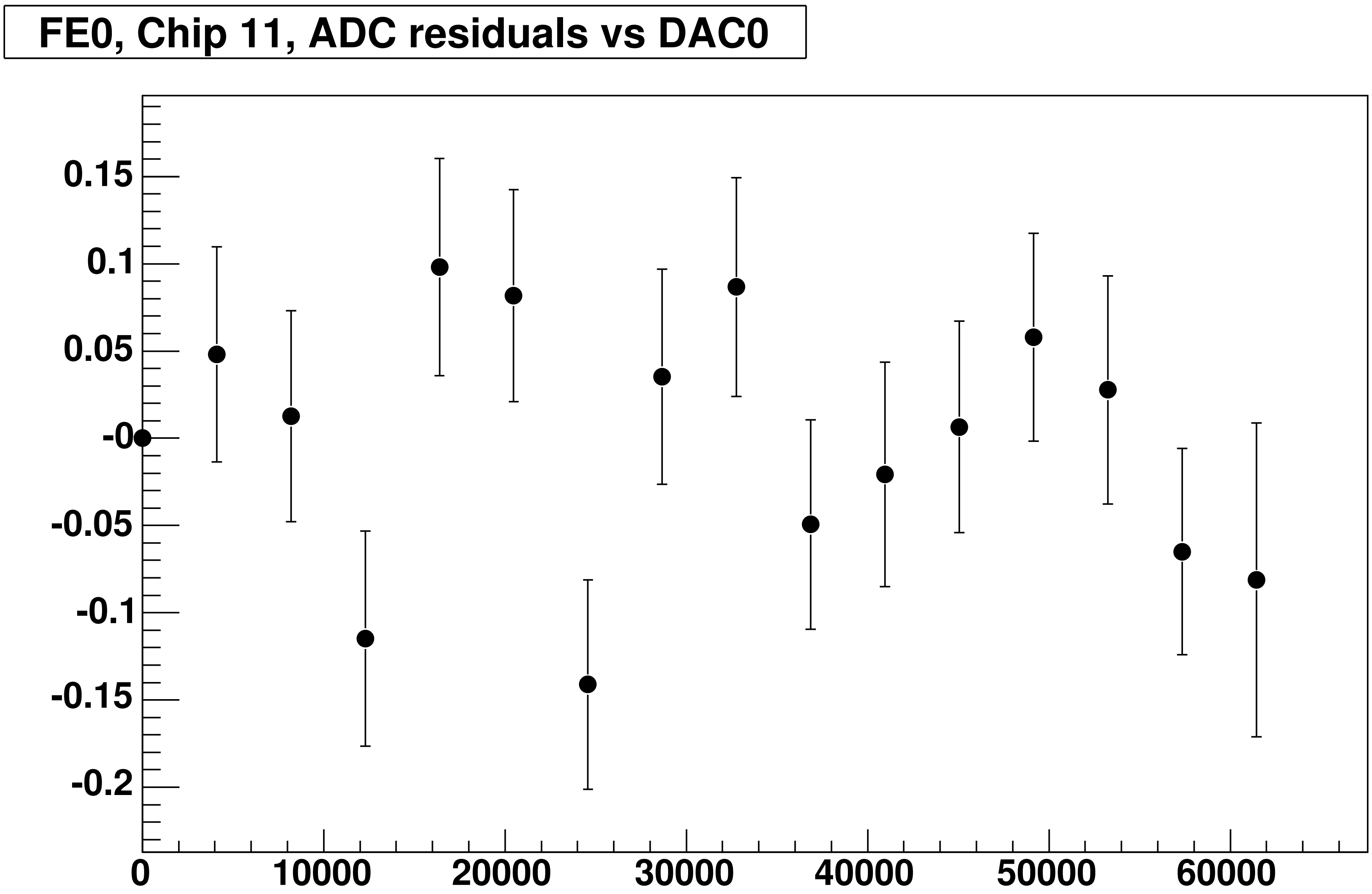


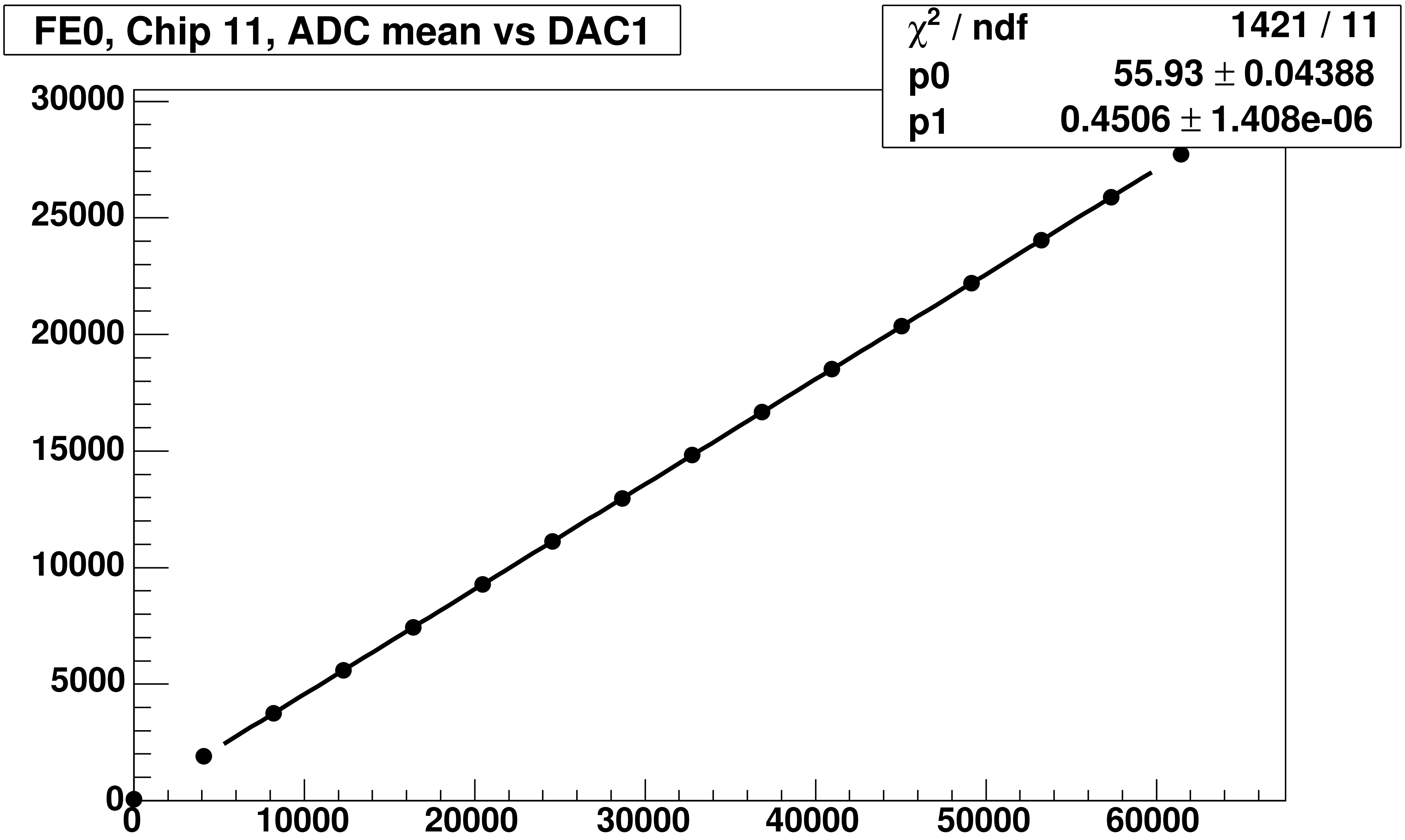
FE0, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

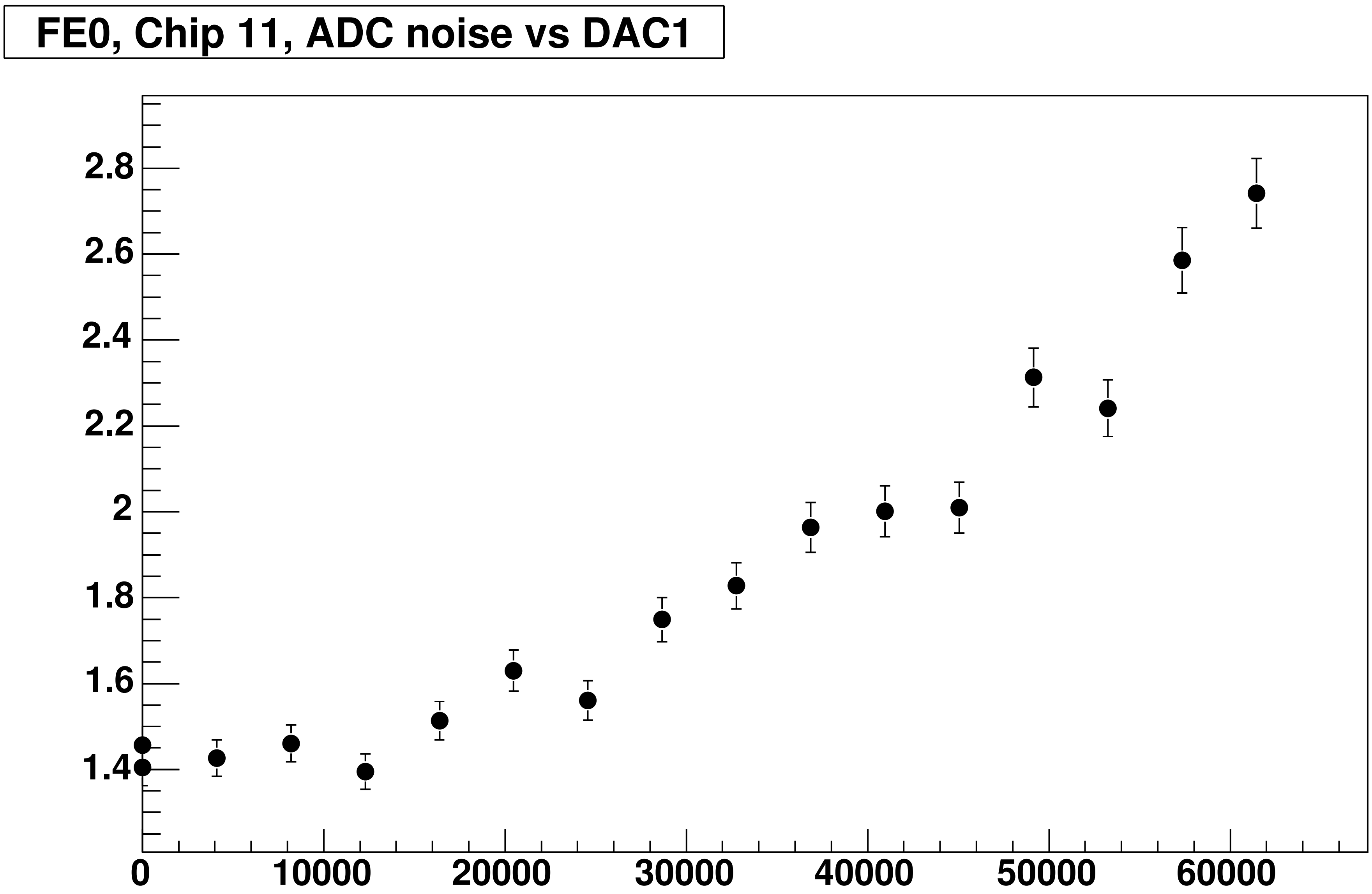


FE0, Chip 11, ADC mean vs DAC0
χ² / ndf 18.71 / 11
p0 53.54 ± 0.04
p1 2.285e-06 ± 1.106e-06
53.8
53.75
53.7
53.65
53.6
53.55
53.5
53.45
53.4
0
10000
20000
30000
40000
50000
60000

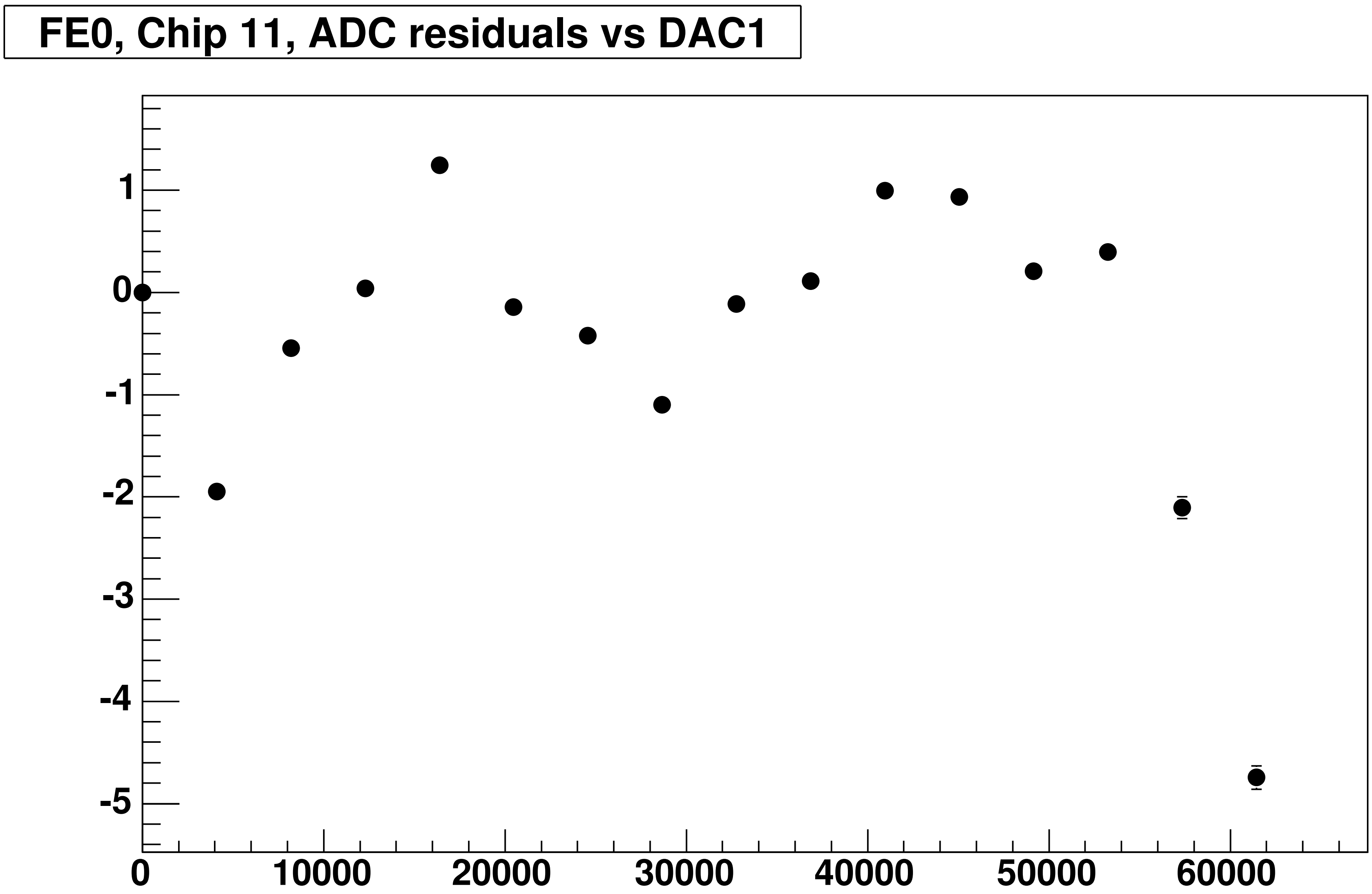

FE0, Chip 11, ADC noise vs DAC0
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

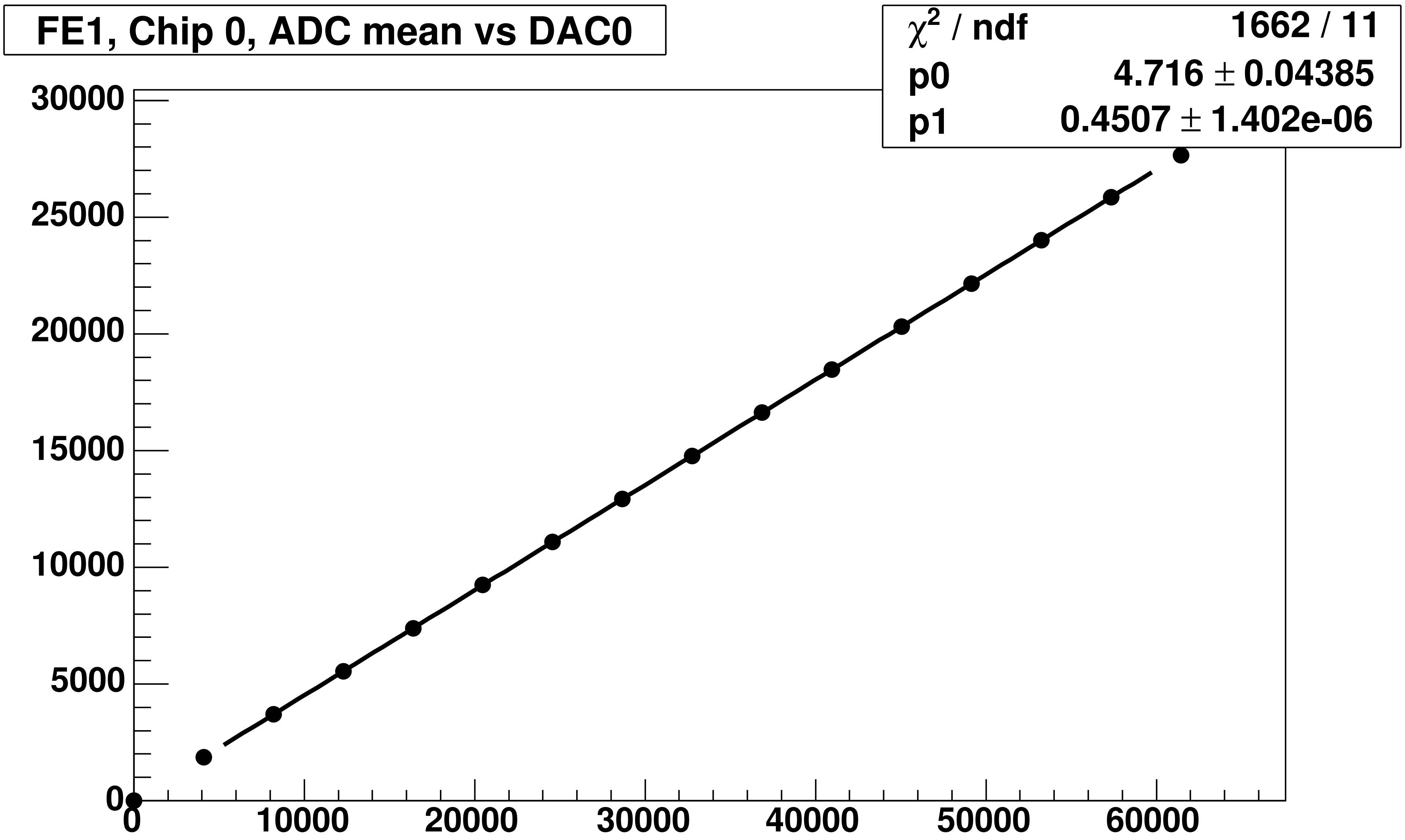

FE0, Chip 11, ADC residuals vs DAC0
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

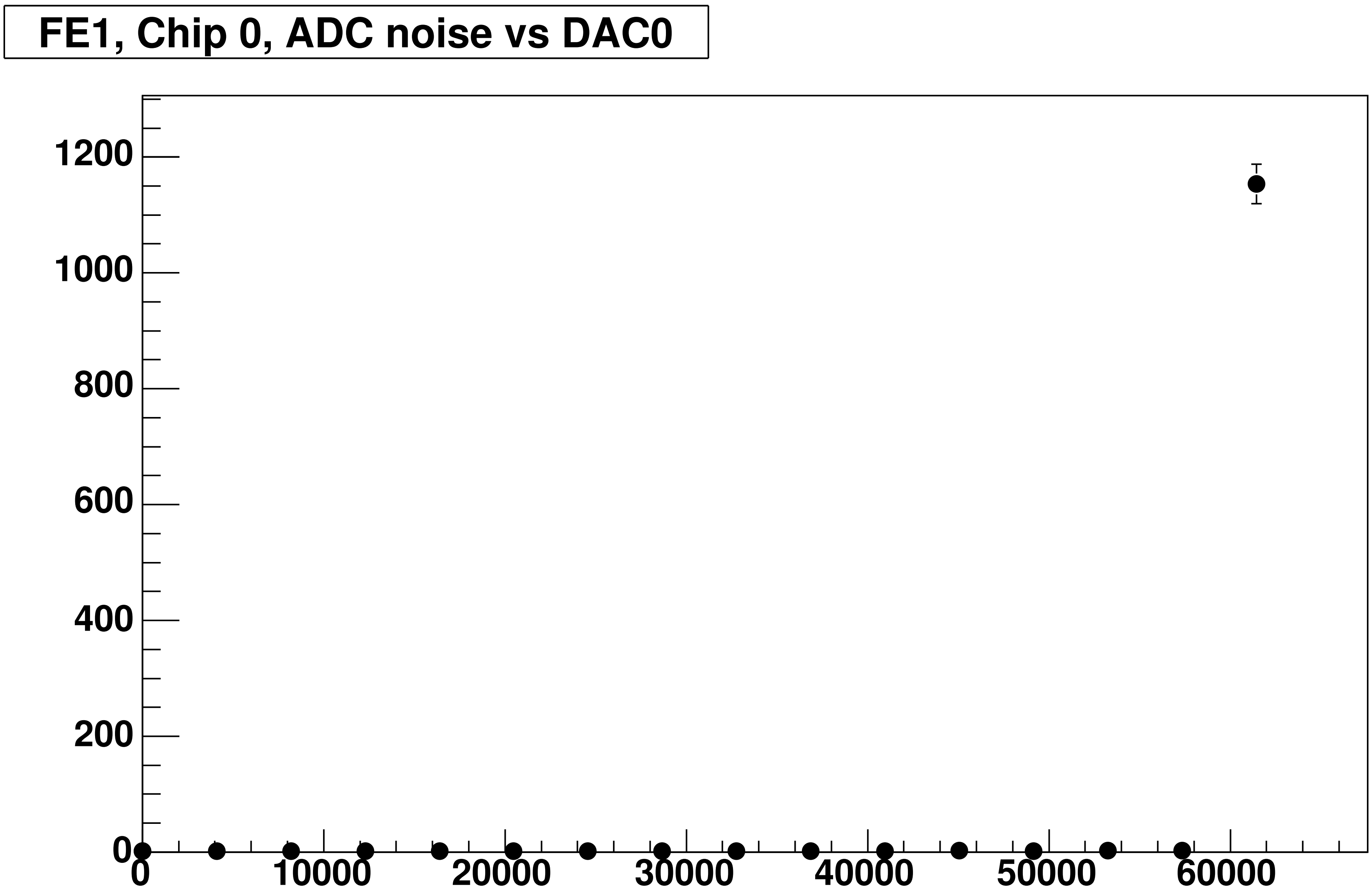

FE0, Chip 11, ADC mean vs DAC1
χ² / ndf 1421 / 11
p0 55.93 ± 0.04388
p1 0.4506 ± 1.408e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

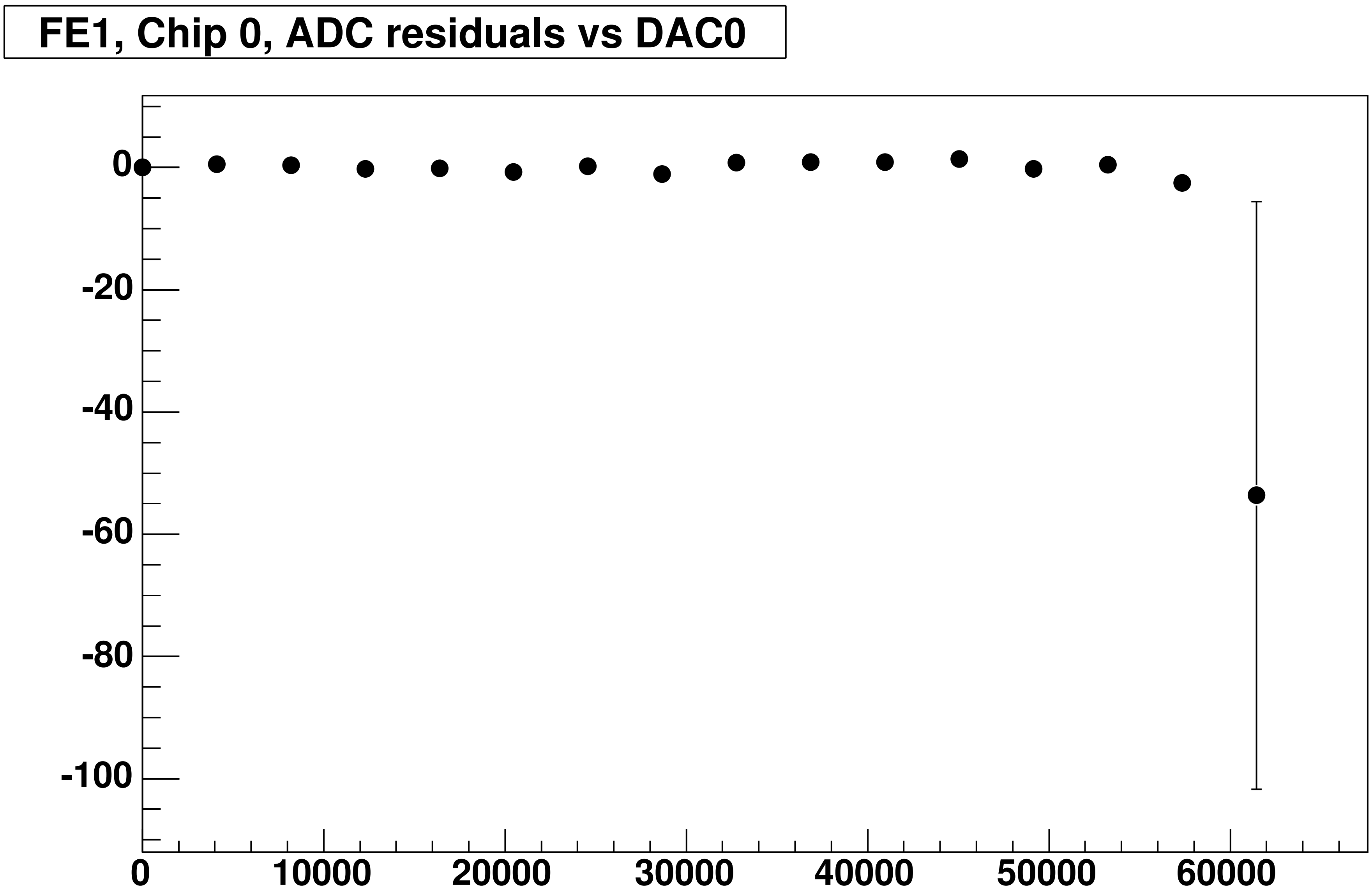


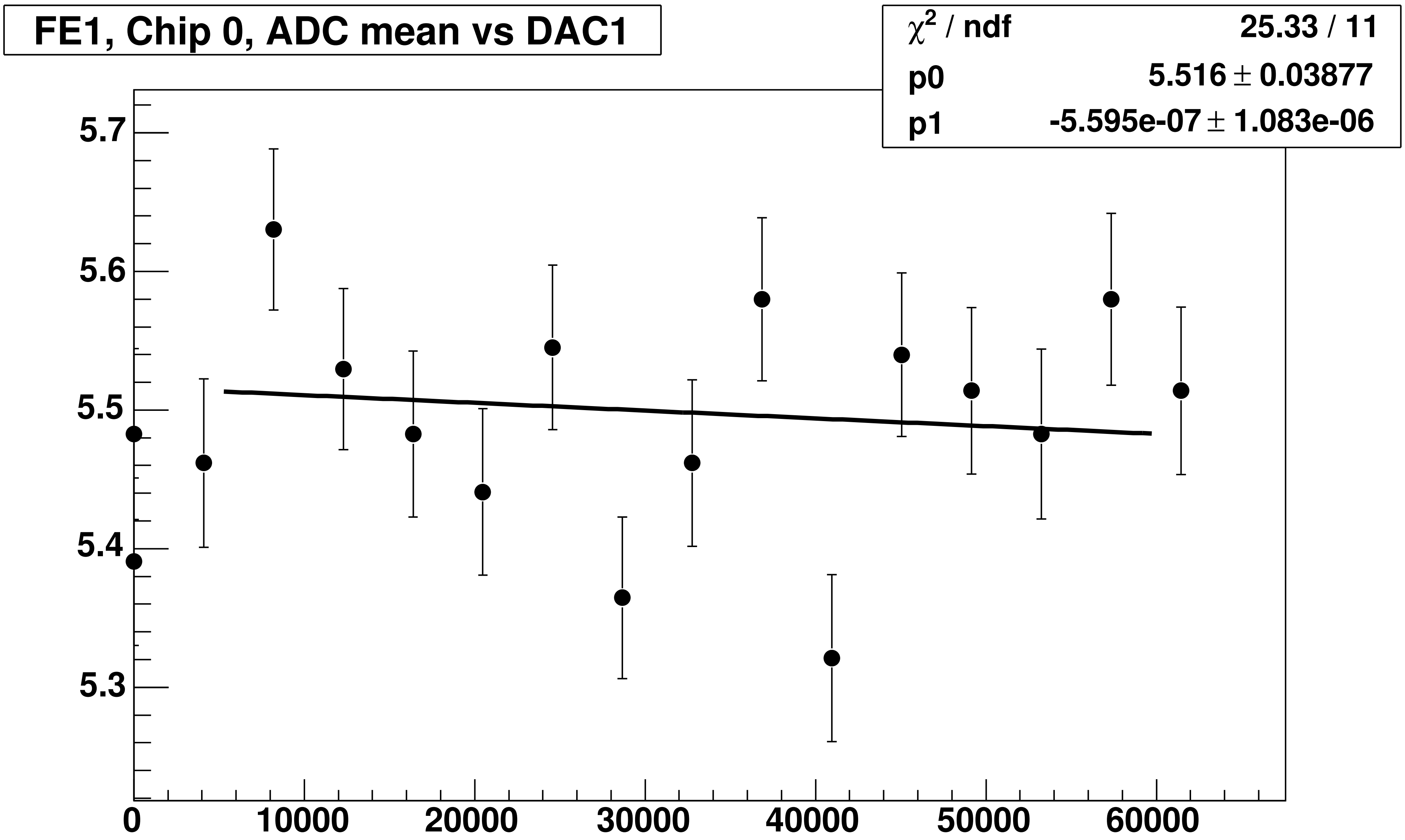
FE0, Chip 11, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

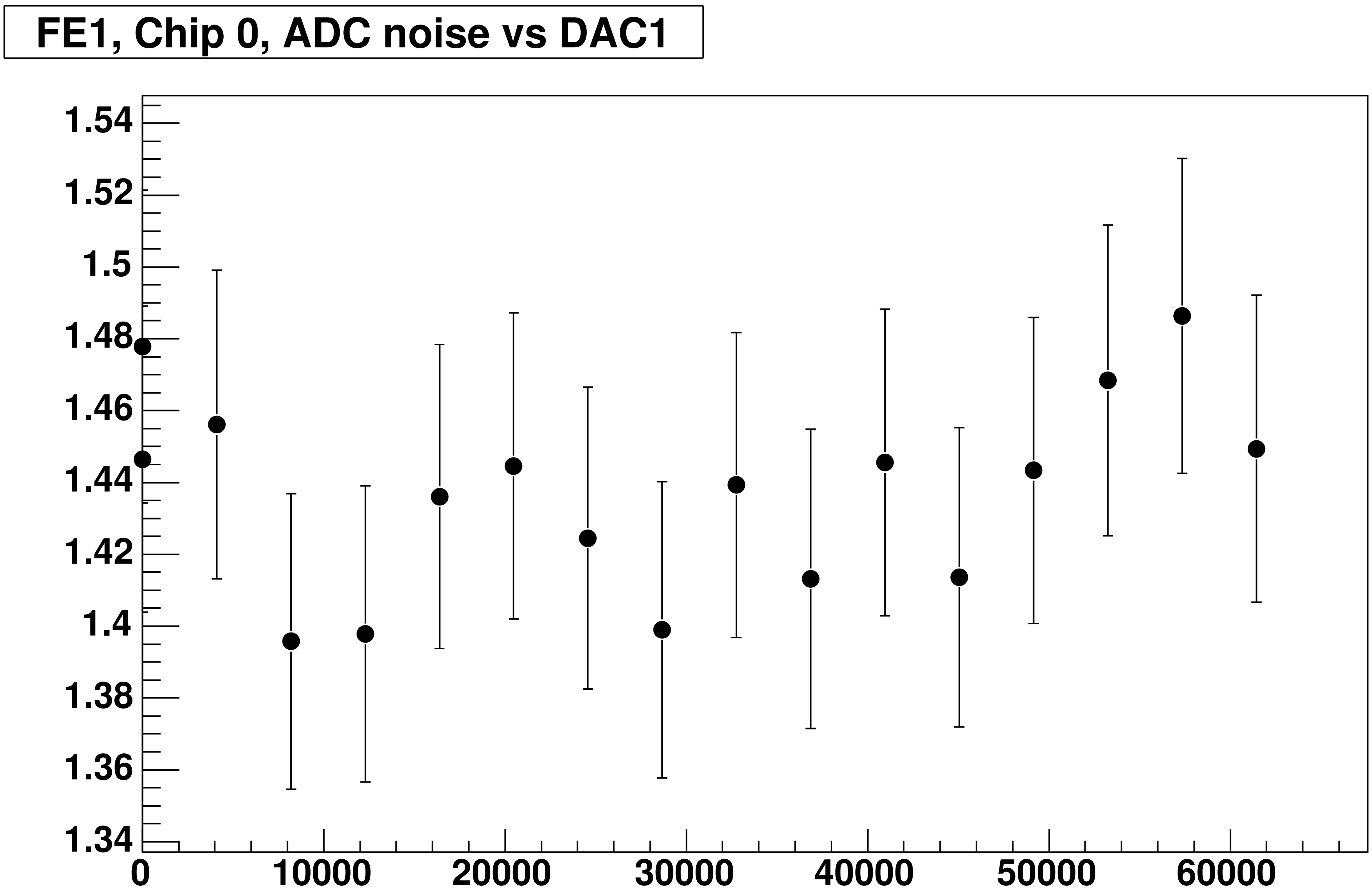

FE0, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE1, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1662 / 11
p0 4.716 ± 0.04385
p1 0.4507 ± 1.402e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

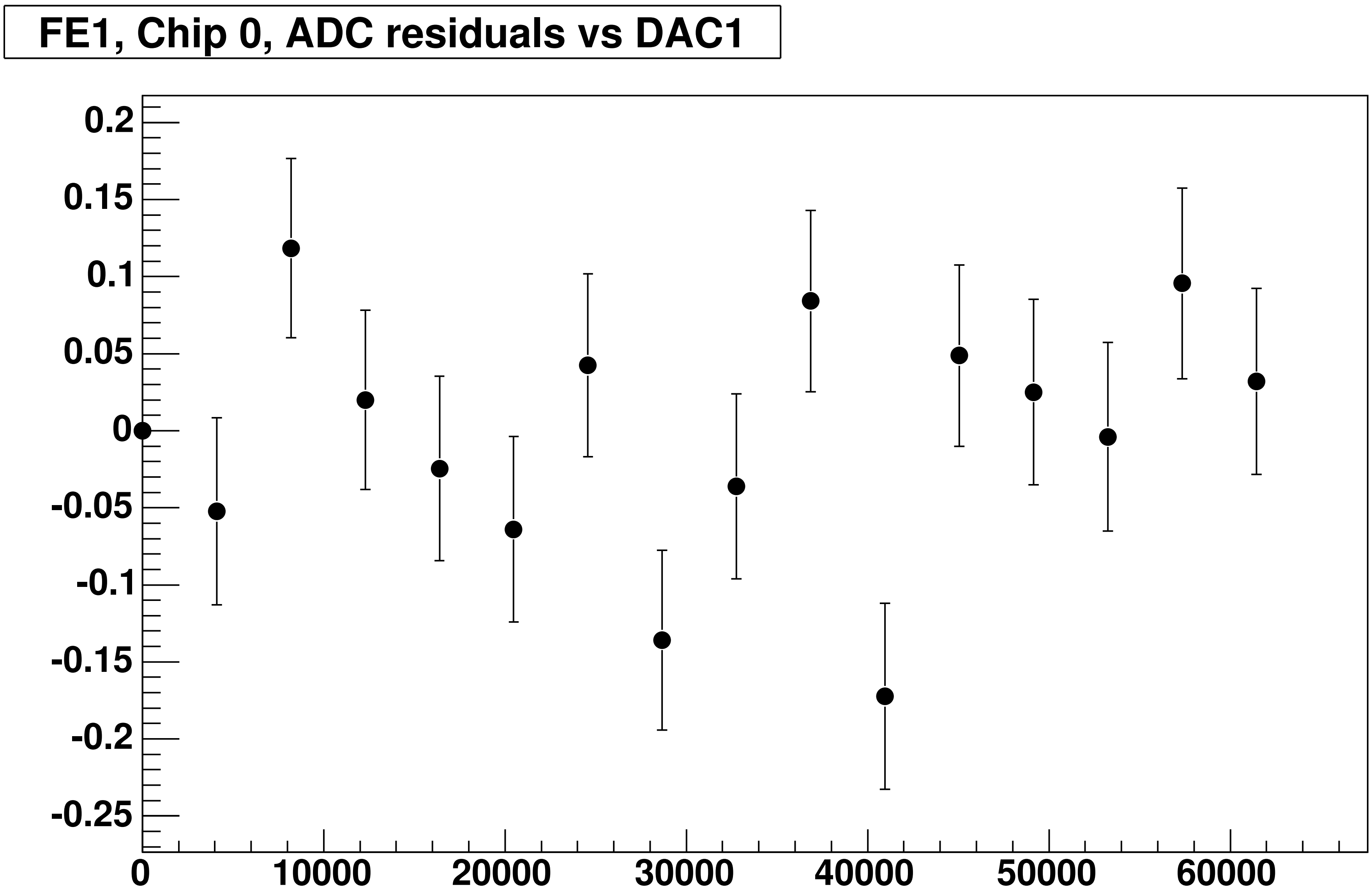

FE1, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

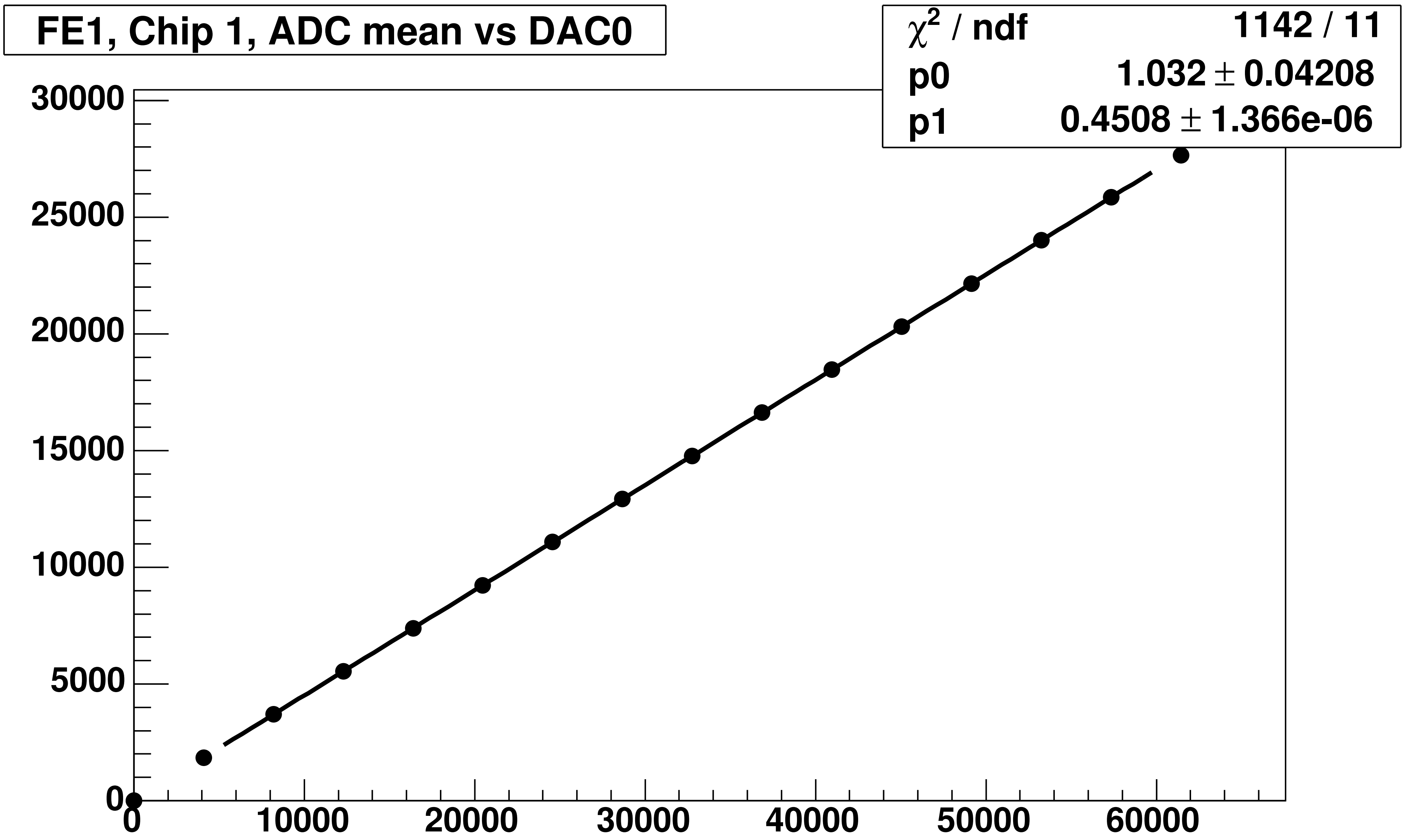

FE1, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE1, Chip 0, ADC mean vs DAC1
χ^2 / ndf 25.33 / 11
p0 5.516 ± 0.03877
p1 -5.595e-07 ± 1.083e-06
5.3
5.4
5.5
5.6
5.7
0
10000
20000
30000
40000
50000
60000

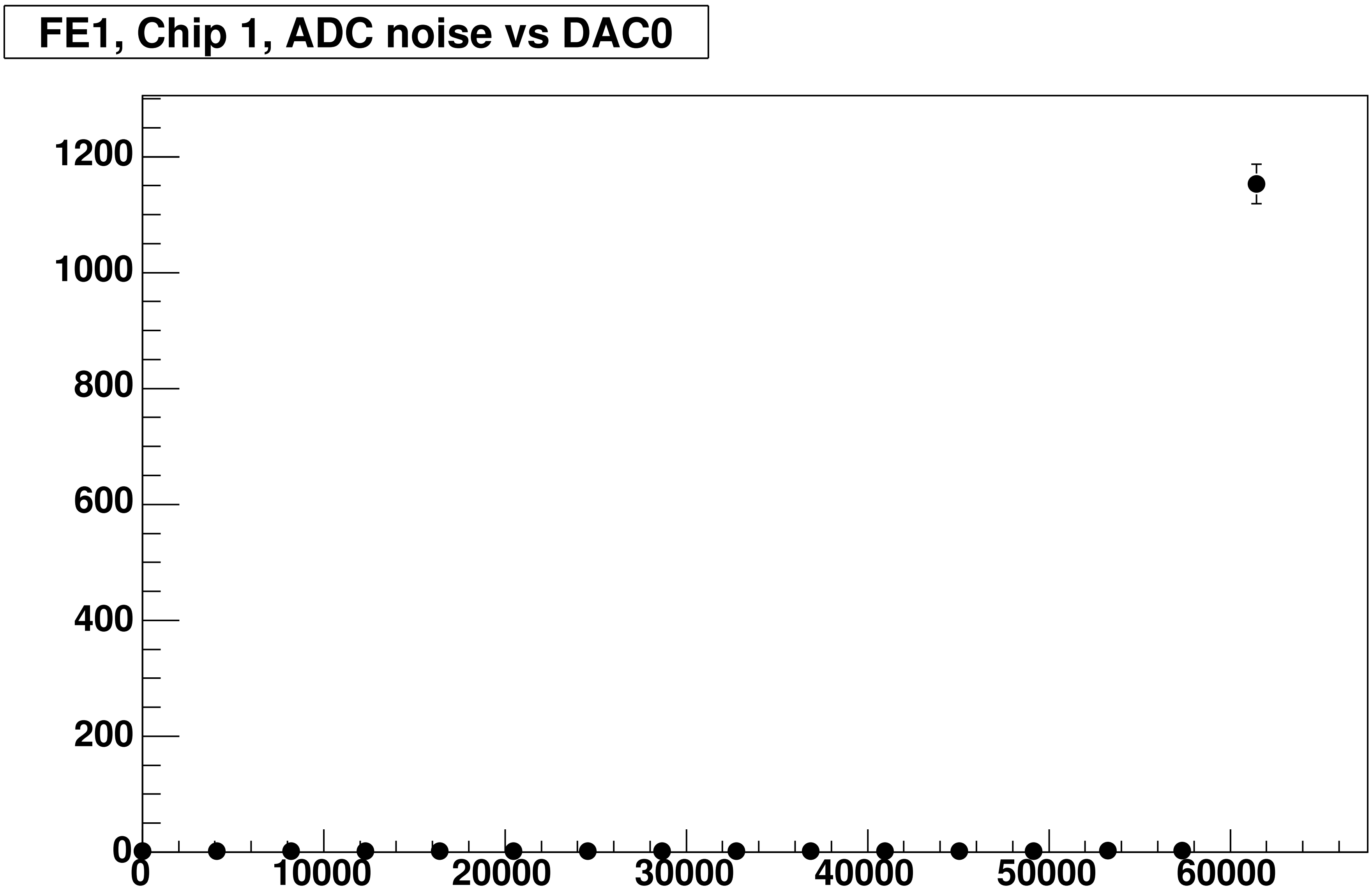


FE1, Chip 0, ADC noise vs DAC1
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
1.34
0
10000
20000
30000
40000
50000
60000

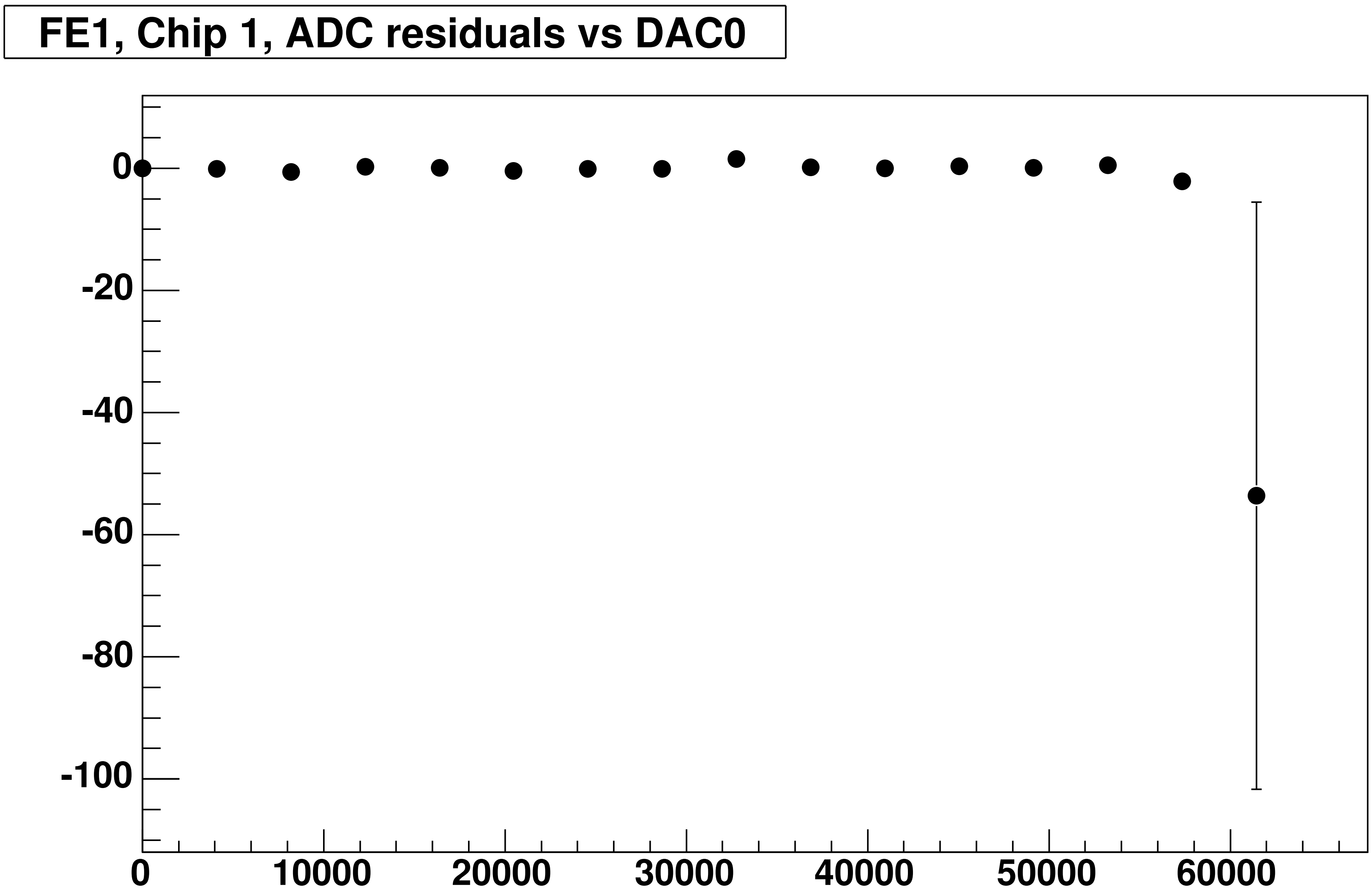

FE1, Chip 0, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

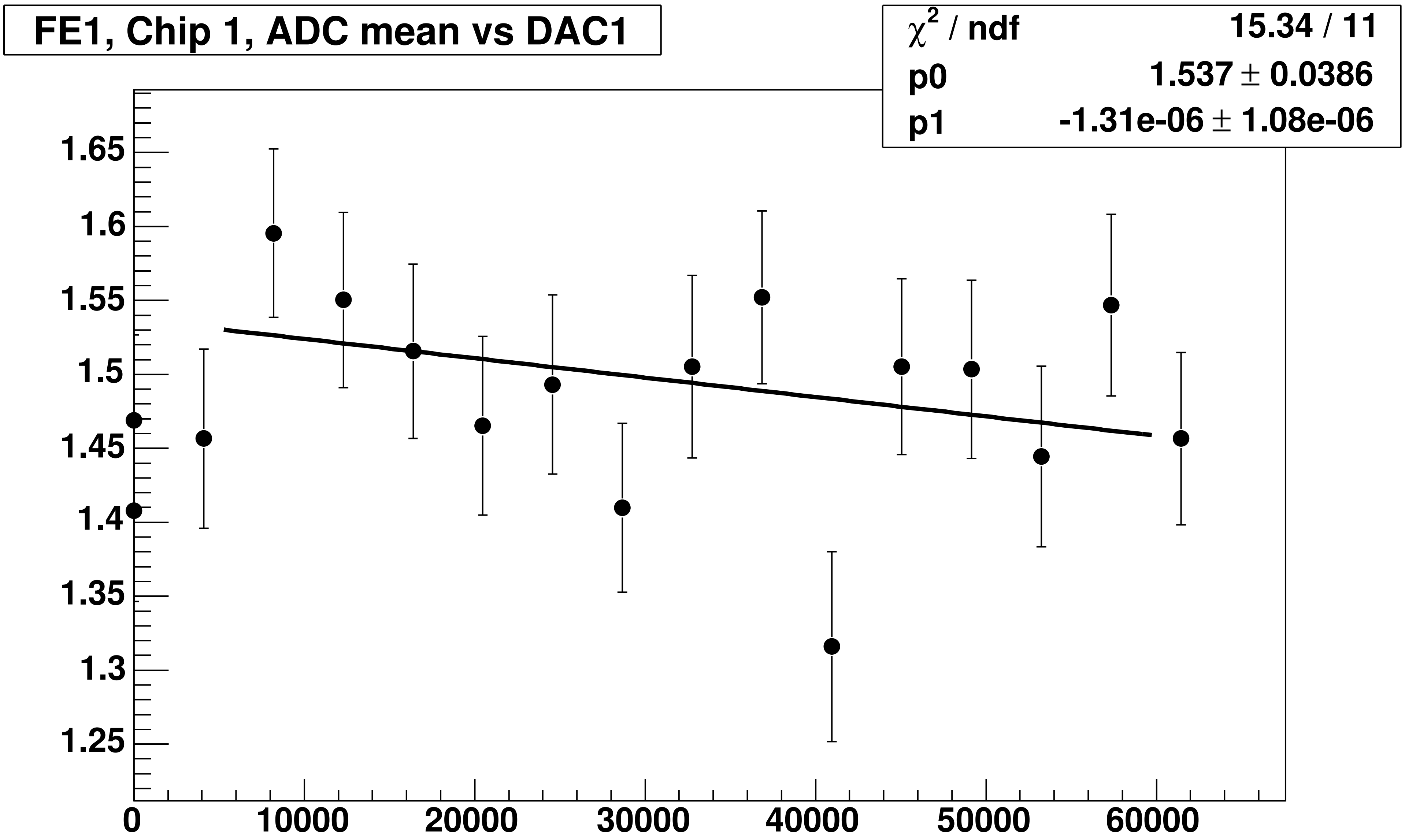


FE1, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1142 / 11
p0 1.032 ± 0.04208
p1 0.4508 ± 1.366e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

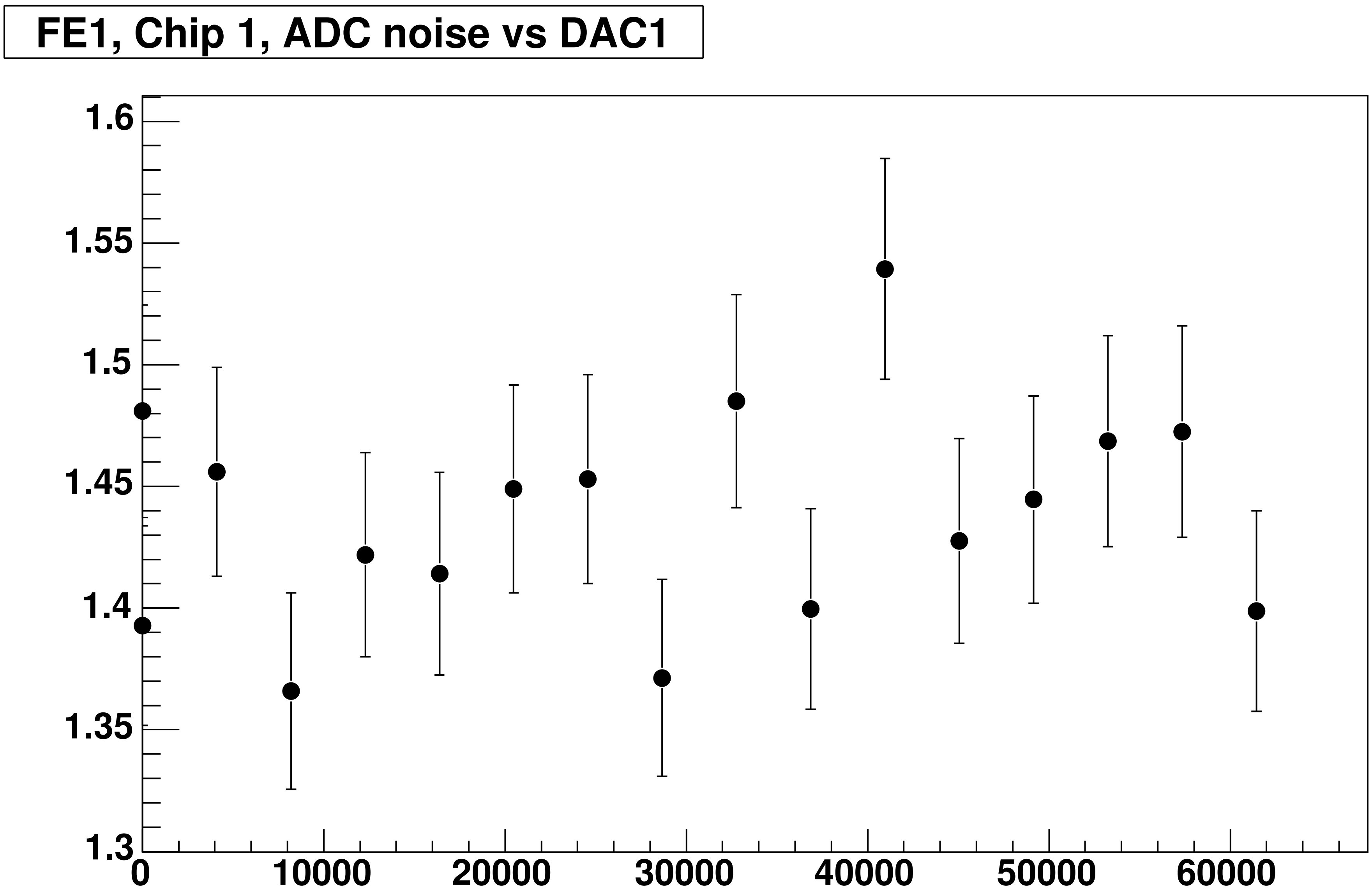


FE1, Chip 1, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

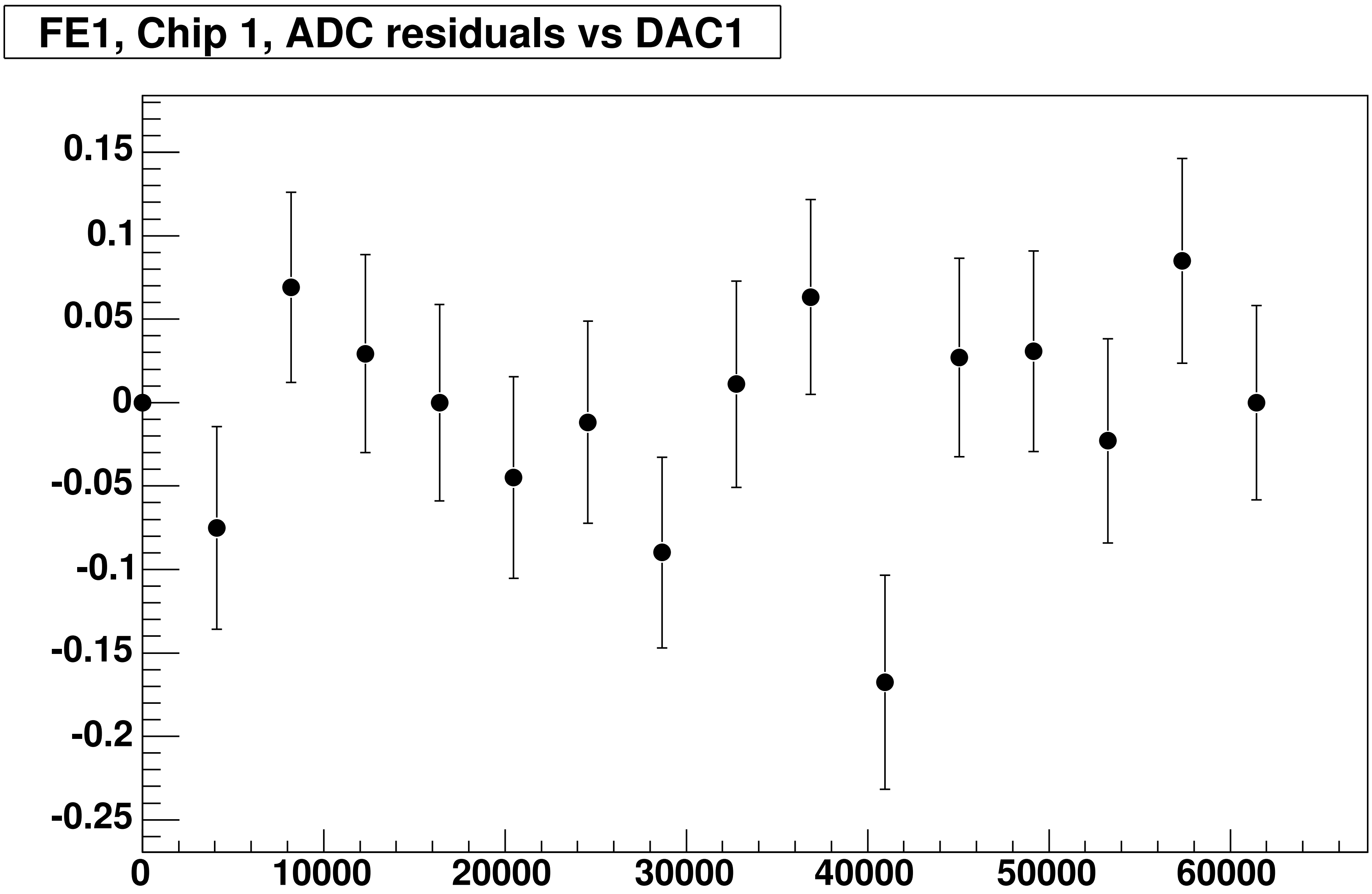

FE1, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



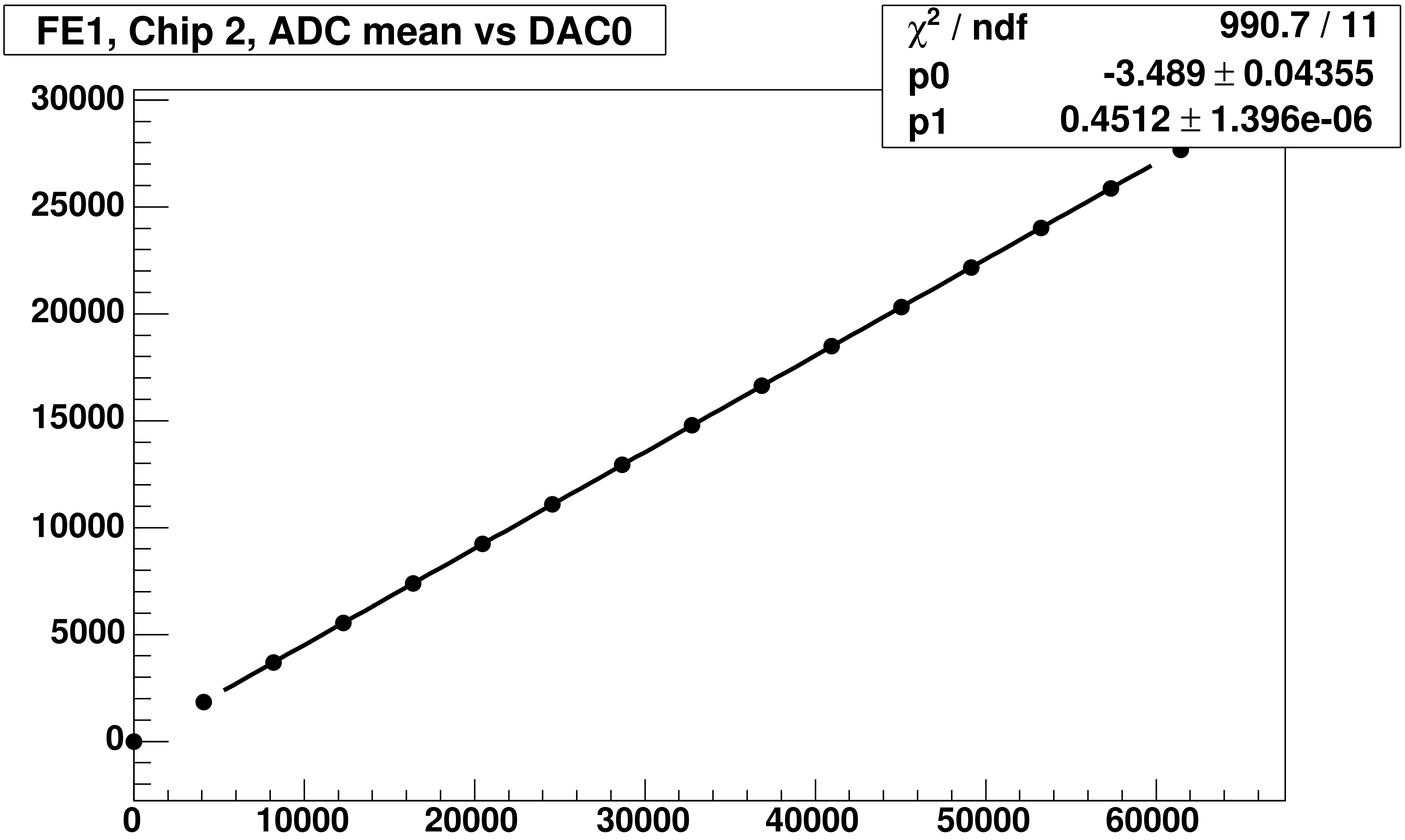
FE1, Chip 1, ADC mean vs DAC1
χ² / ndf 15.34 / 11
p0 1.537 ± 0.0386
p1 -1.31e-06 ± 1.08e-06
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000

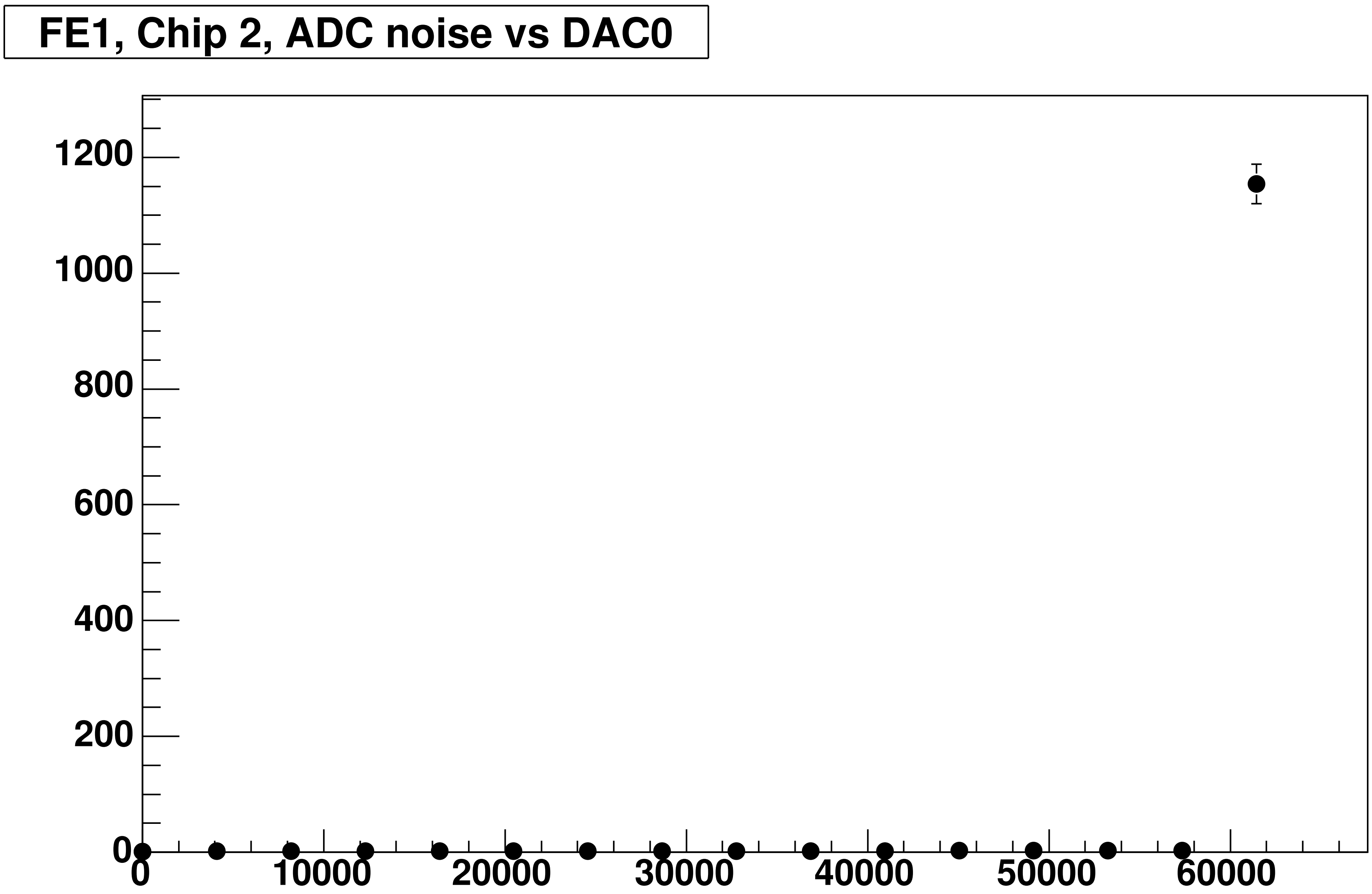


FE1, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

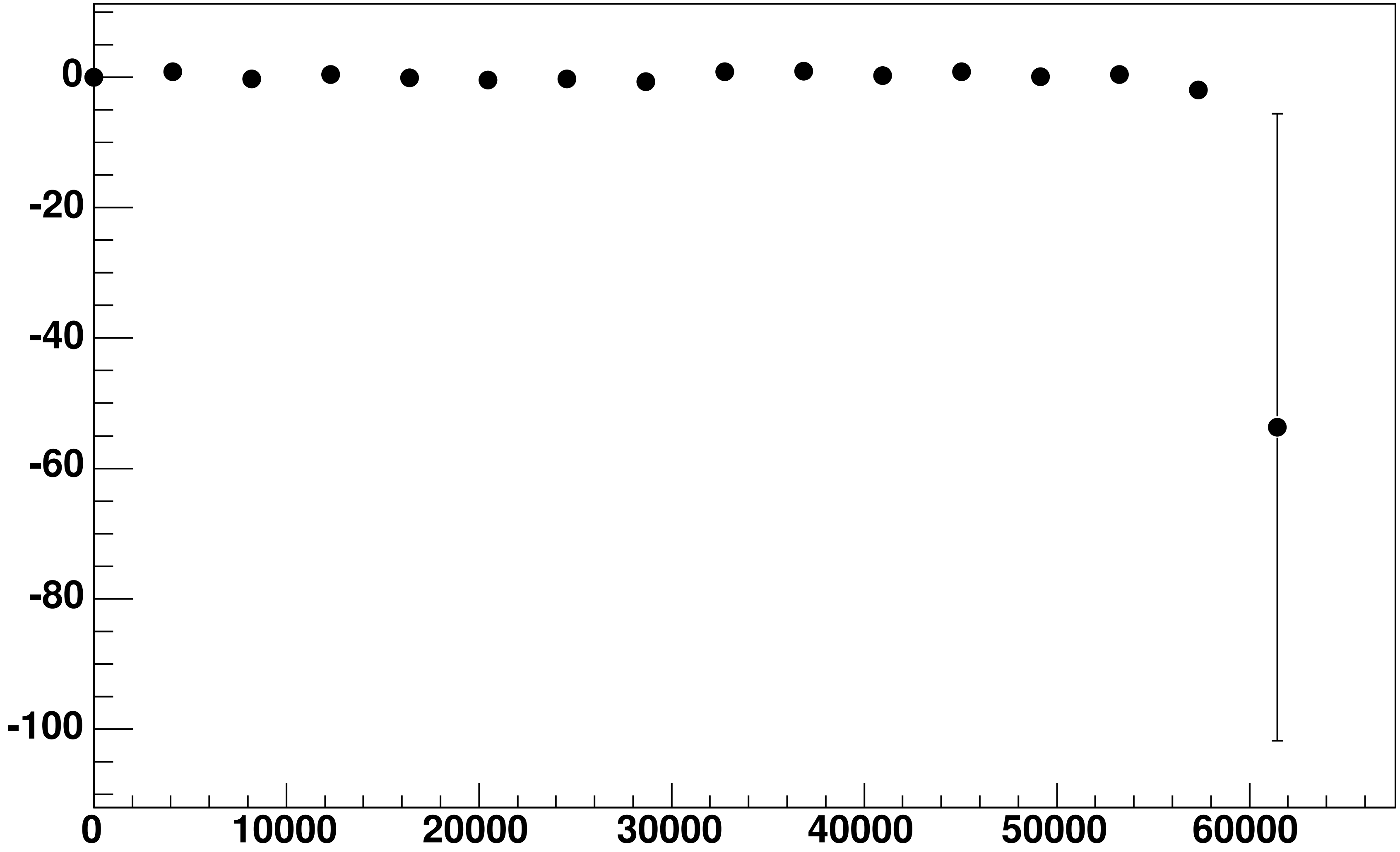


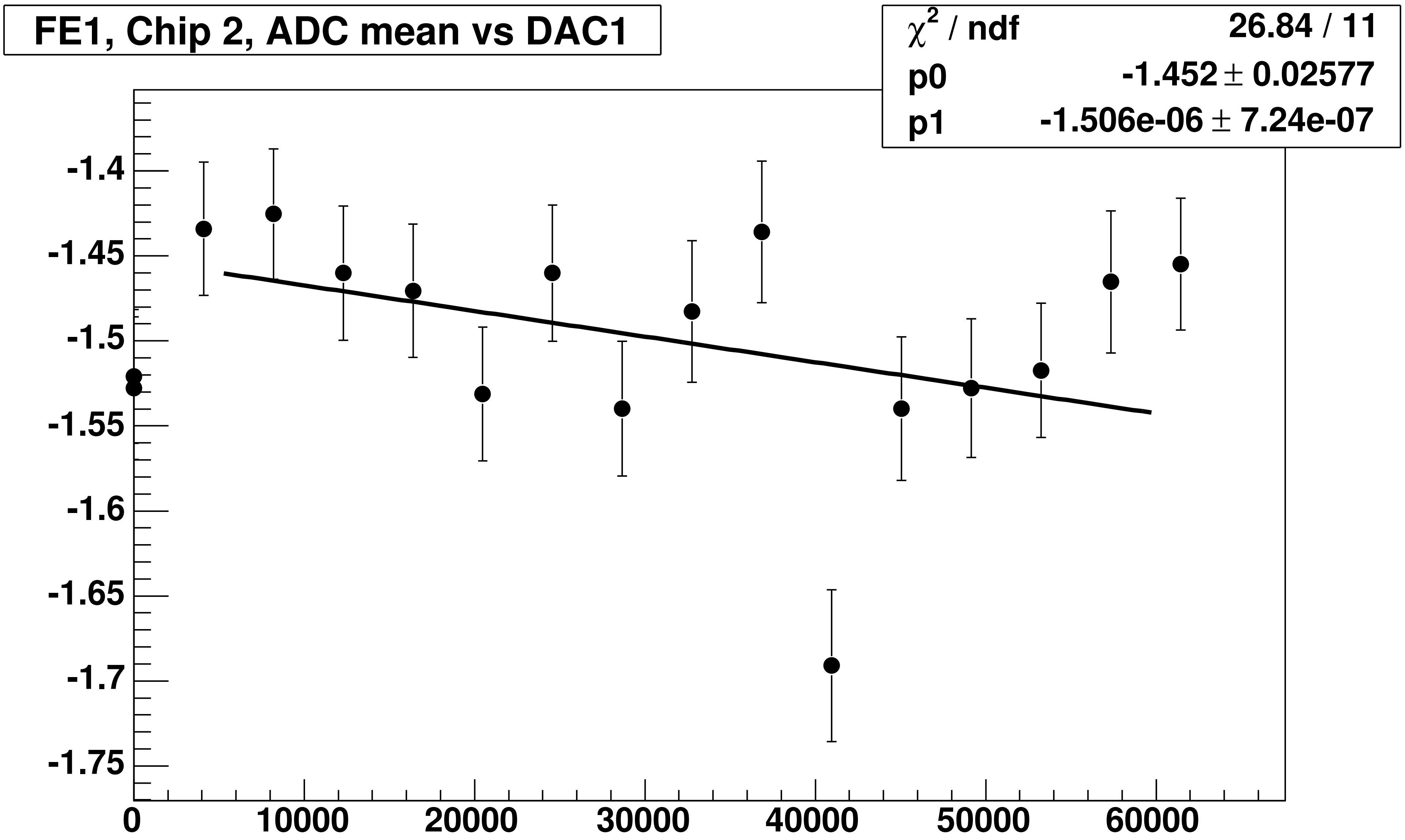
FE1, Chip 1, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

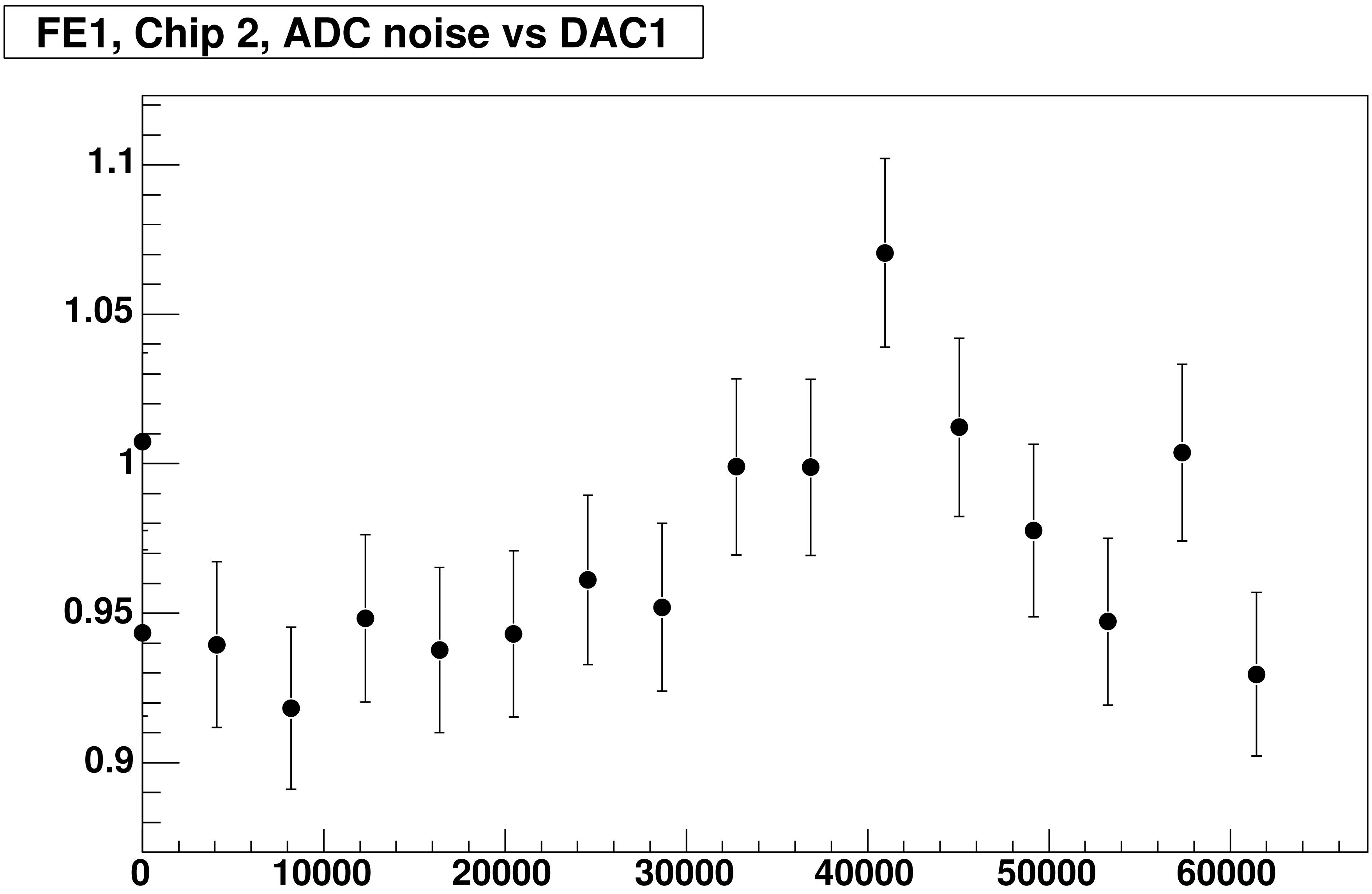

FE1, Chip 2, ADC mean vs DAC0
χ2 / ndf 990.7 / 11
p0 -3.489 ± 0.04355
p1 0.4512 ± 1.396e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

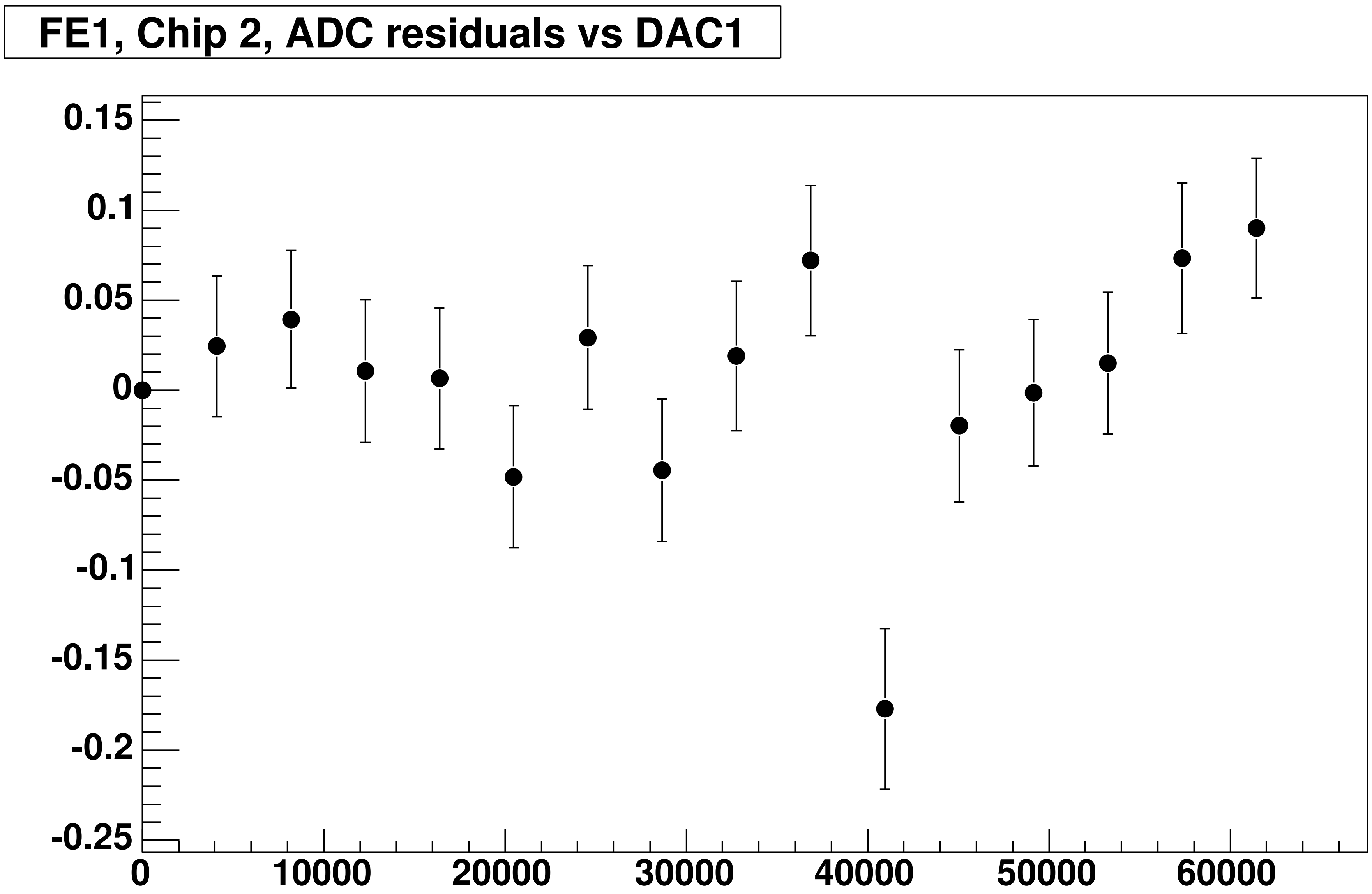

FE1, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

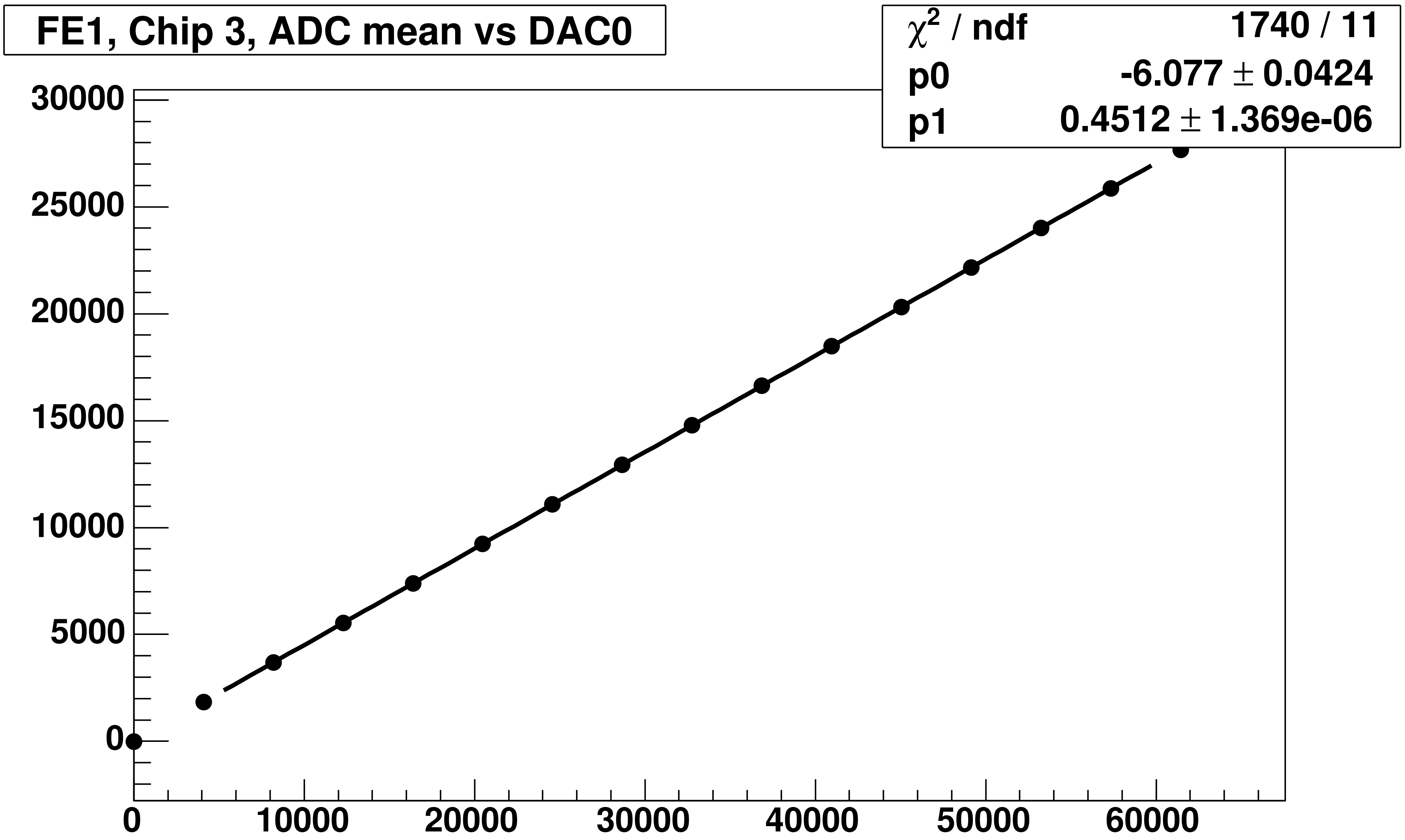
FE1, Chip 2, ADC residuals vs DAC0



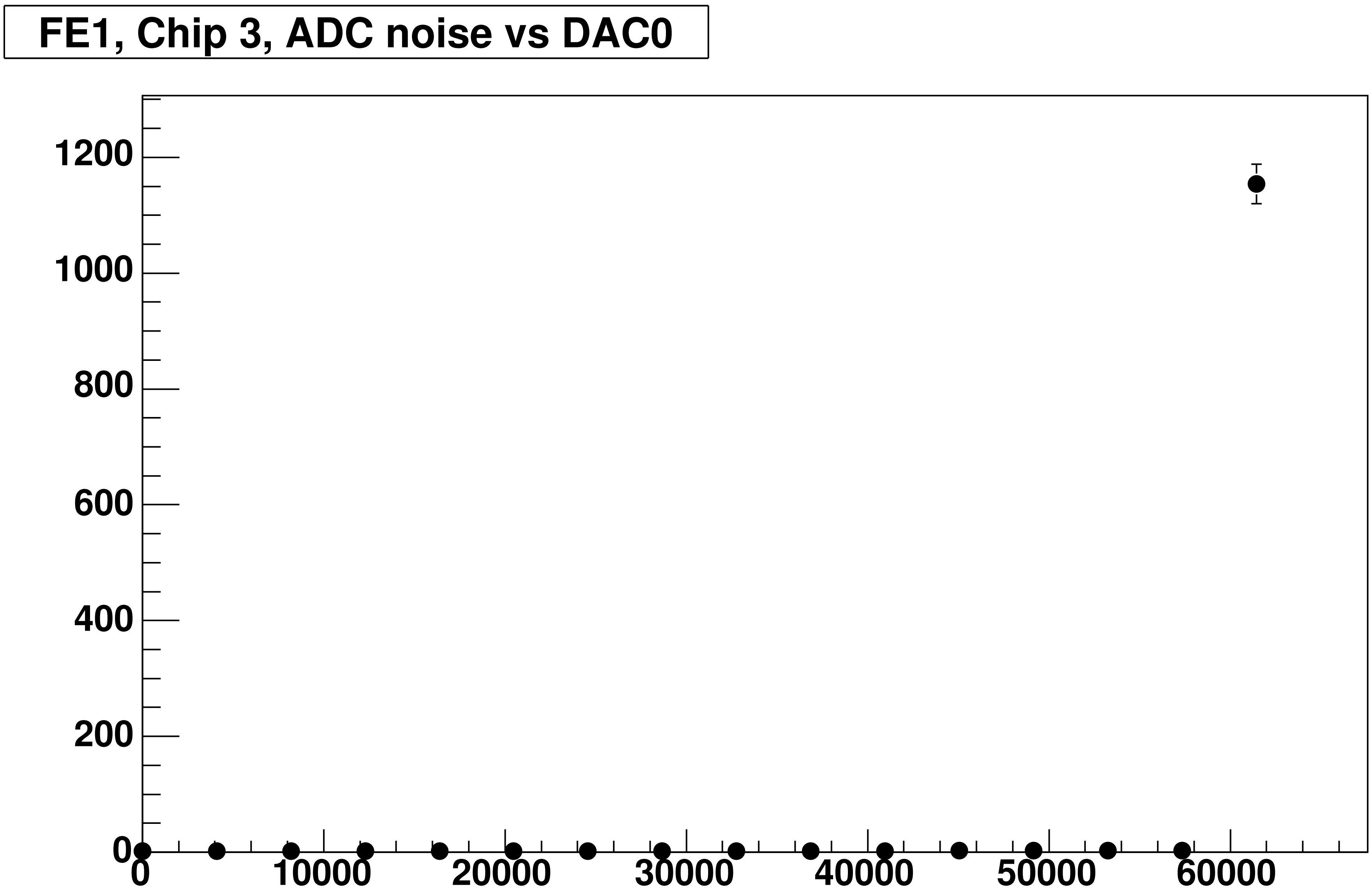

FE1, Chip 2, ADC mean vs DAC1
χ^2 / ndf 26.84 / 11
p0 -1.452 ± 0.02577
p1 -1.506e-06 ± 7.24e-07
-1.4
-1.45
-1.5
-1.55
-1.6
-1.65
-1.7
-1.75
0
10000
20000
30000
40000
50000
60000

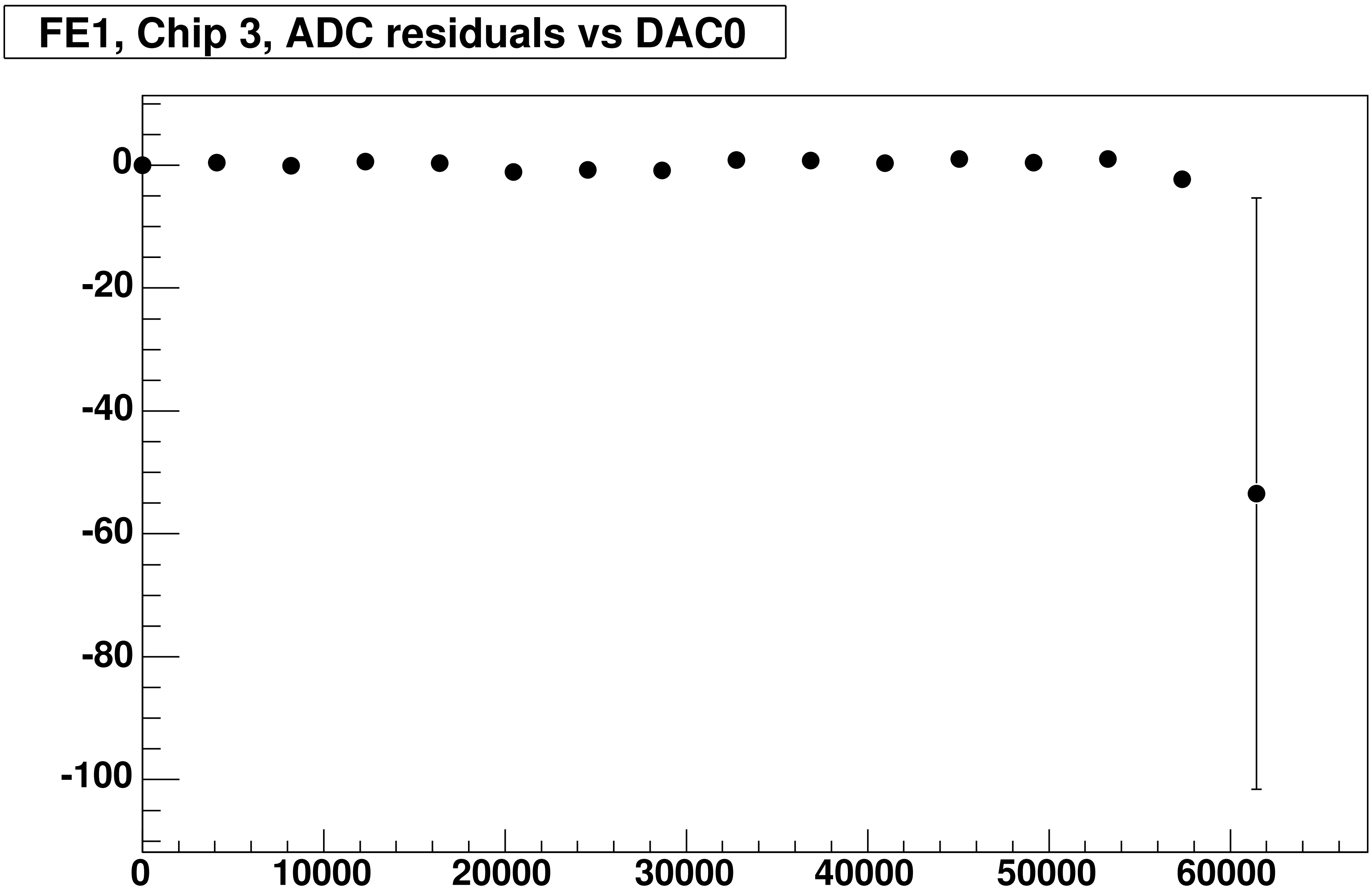

FE1, Chip 2, ADC noise vs DAC1
1.1
1.05
1
0.95
0.9
0
10000
20000
30000
40000
50000
60000


FE1, Chip 2, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

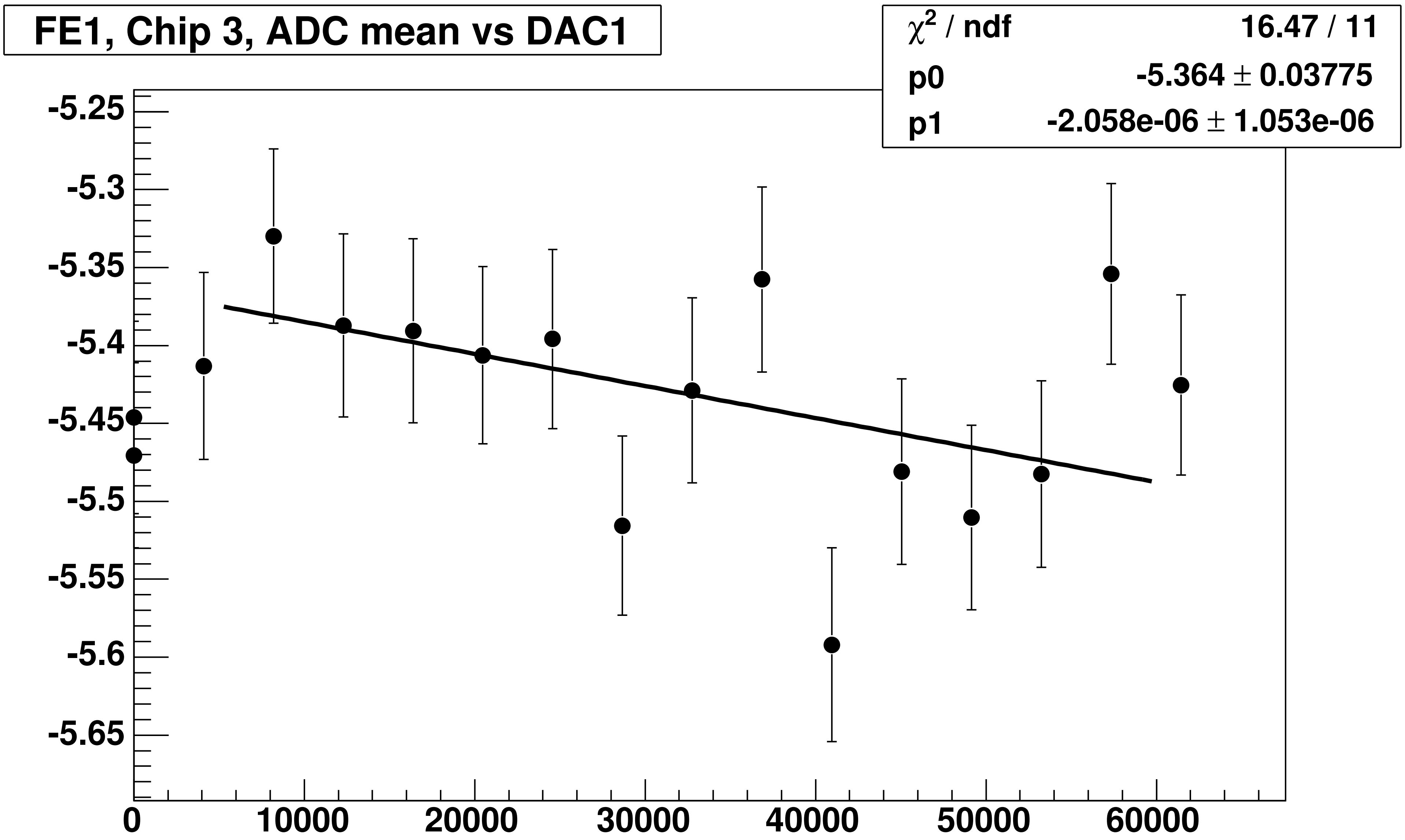


FE1, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1740 / 11
p0 -6.077 ± 0.0424
p1 0.4512 ± 1.369e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

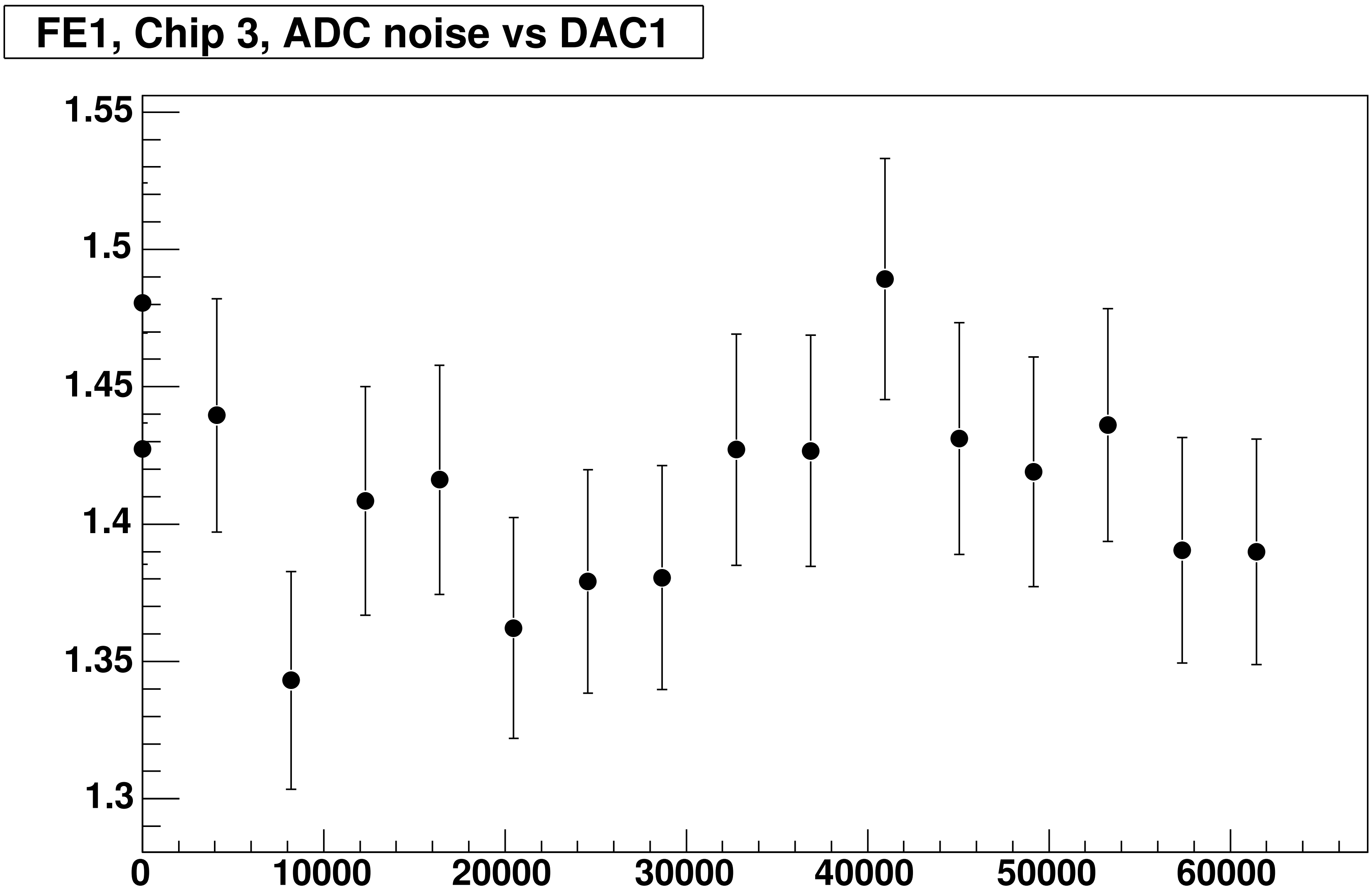

FE1, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



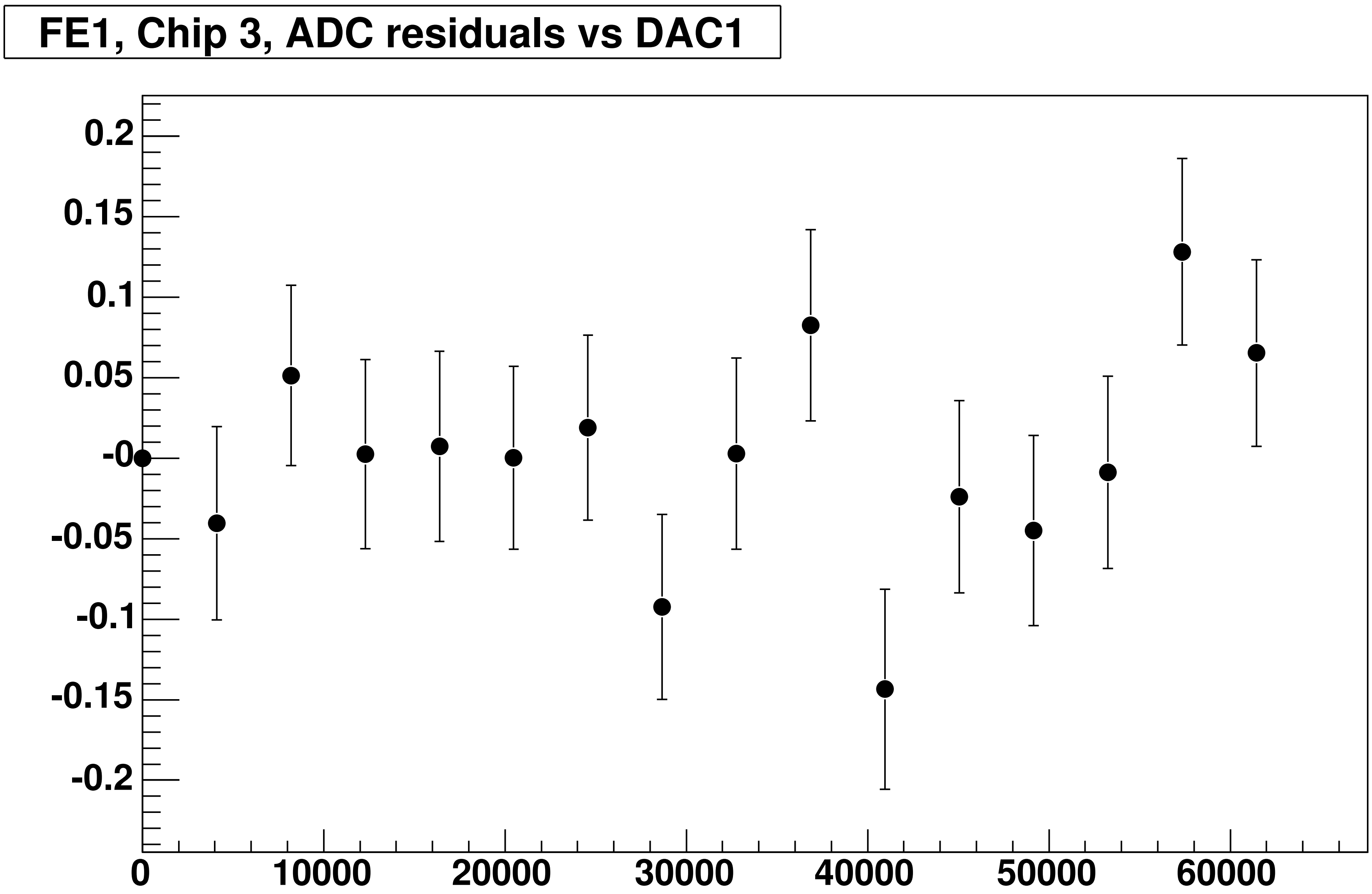
FE1, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



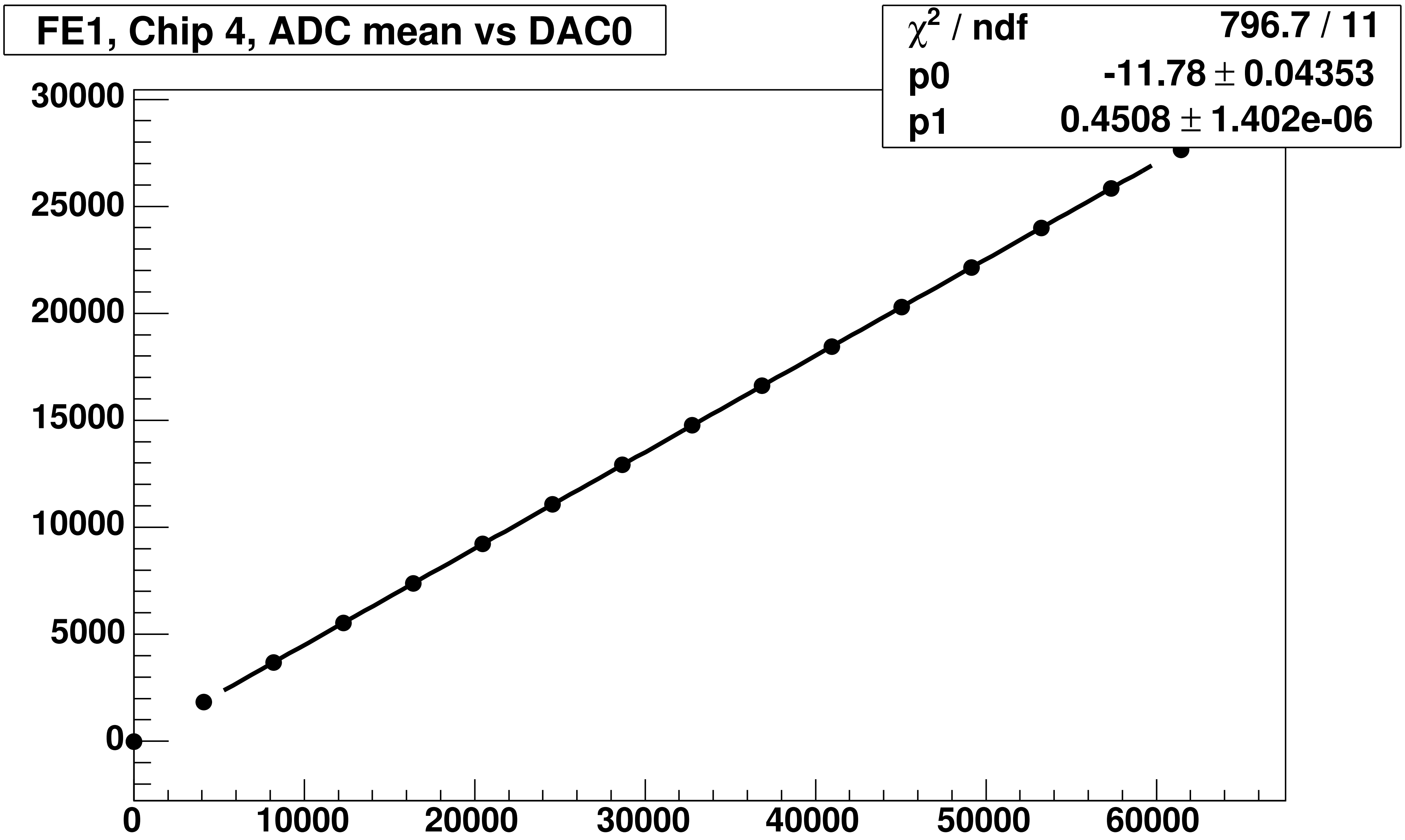
FE1, Chip 3, ADC mean vs DAC1
χ2 / ndf 16.47 / 11
p0 -5.364 ± 0.03775
p1 -2.058e-06 ± 1.053e-06
-5.25
-5.3
-5.35
-5.4
-5.45
-5.5
-5.55
-5.6
-5.65
0
10000
20000
30000
40000
50000
60000

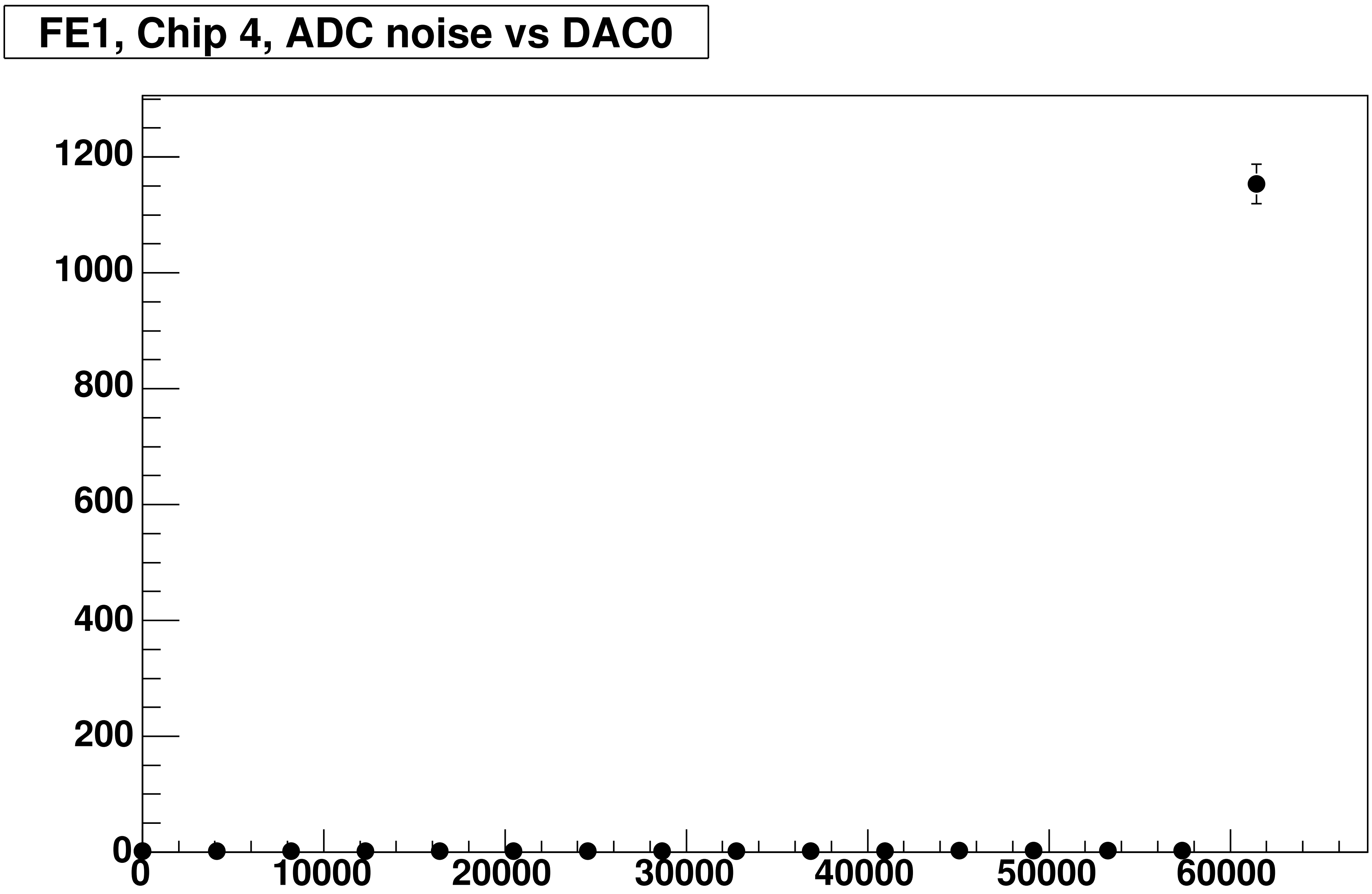


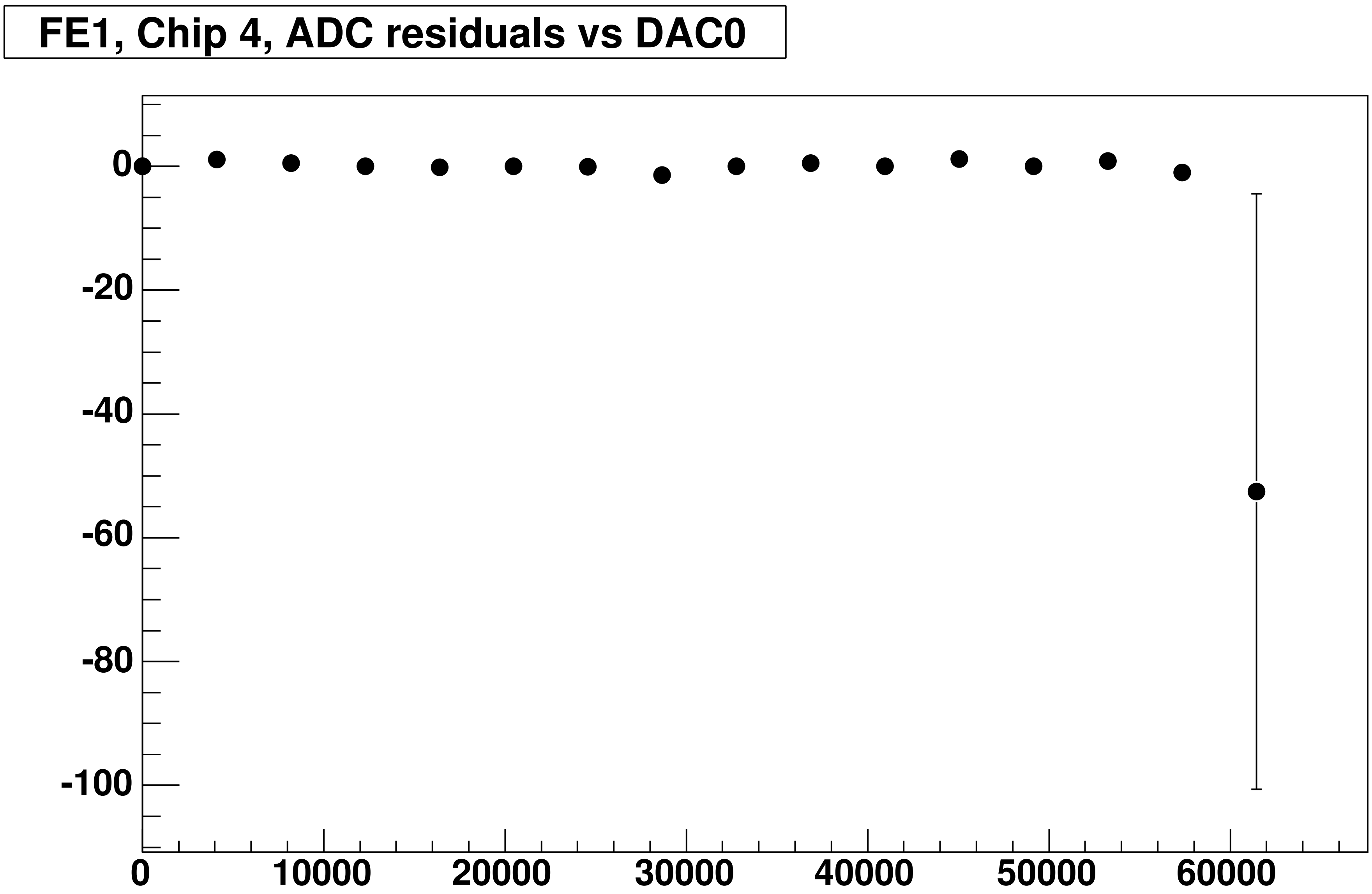
FE1, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



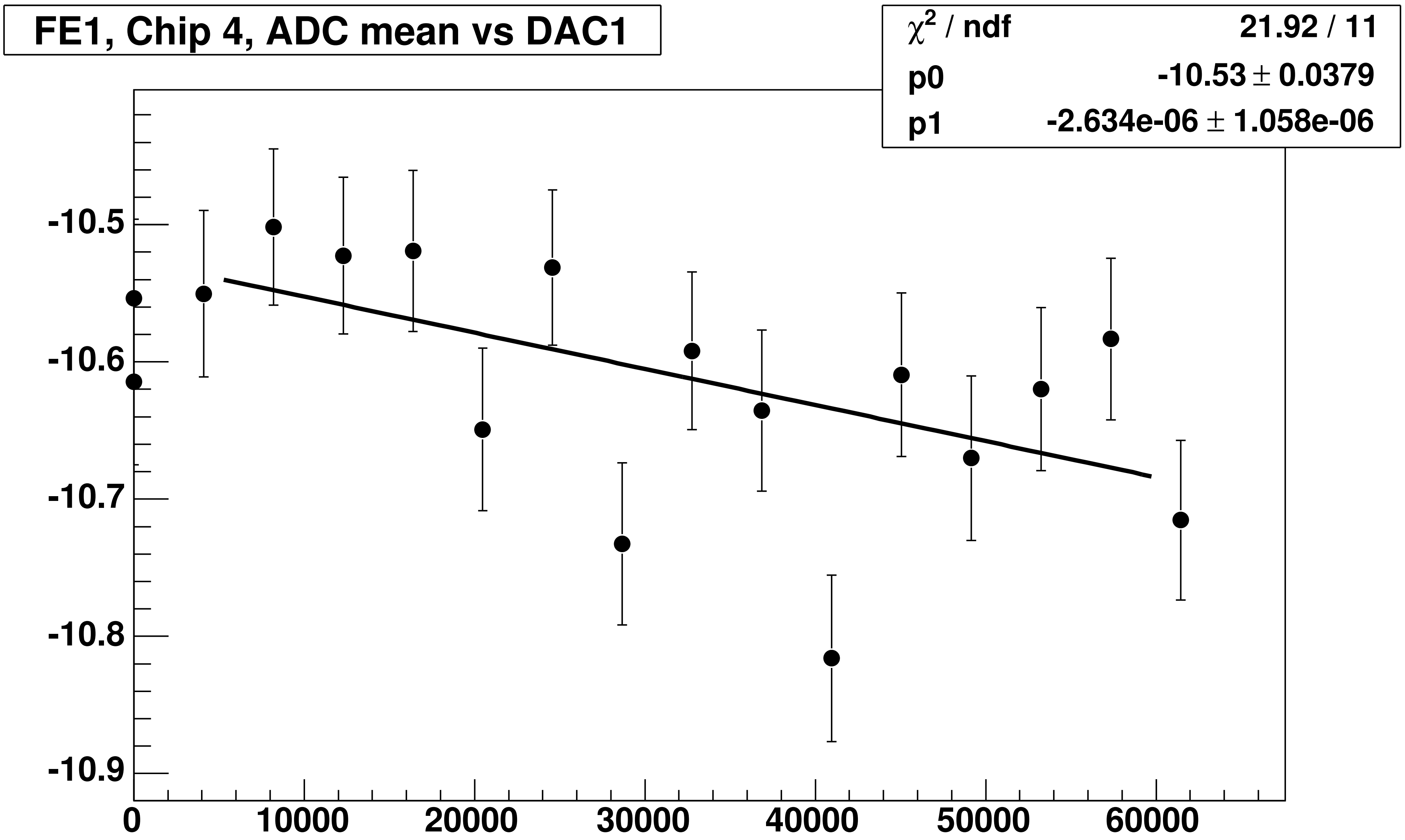
FE1, Chip 3, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE1, Chip 4, ADC mean vs DAC0
χ^2 / ndf 796.7 / 11
p0 -11.78 ± 0.04353
p1 0.4508 ± 1.402e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

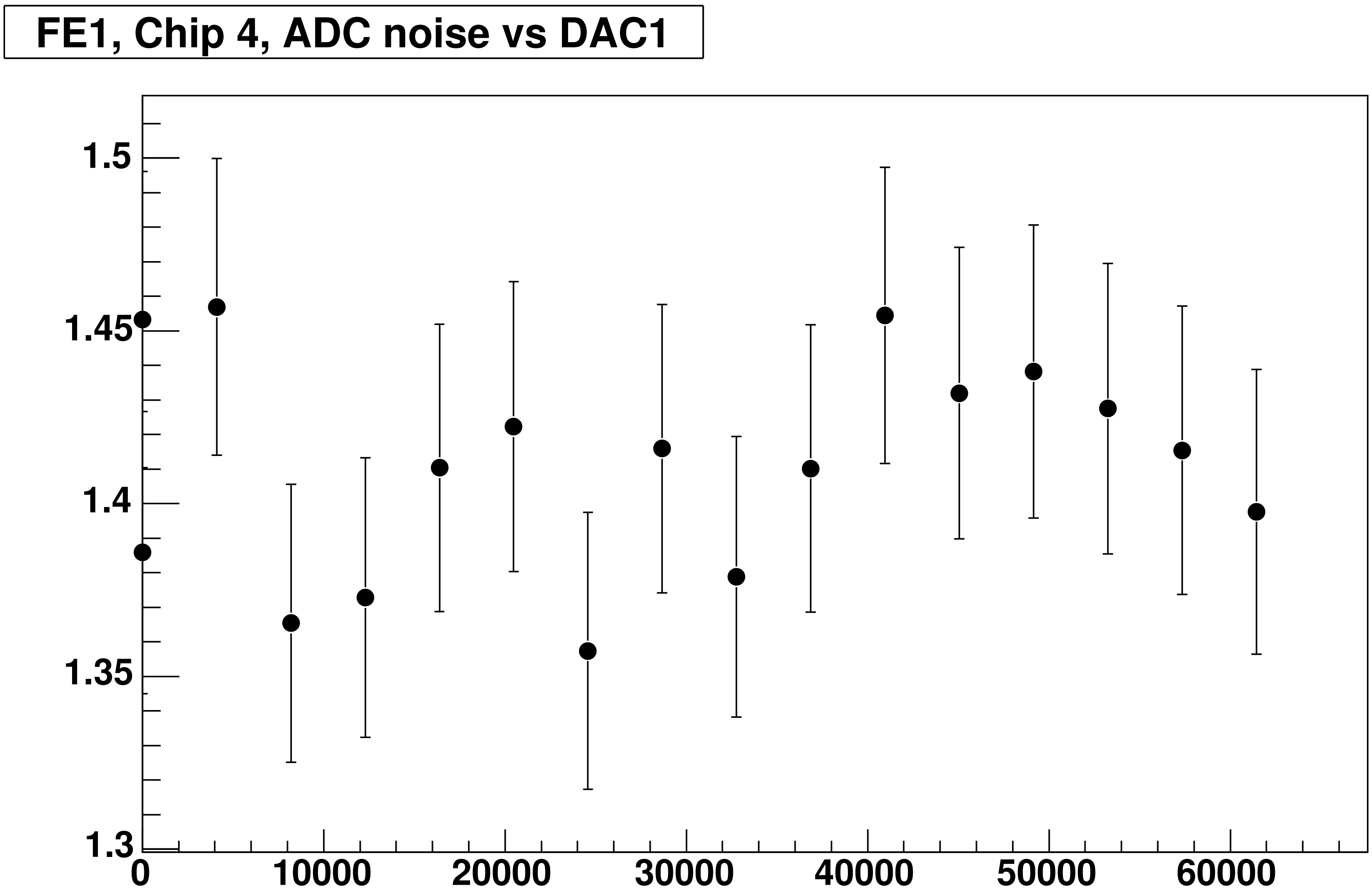

FE1, Chip 4, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

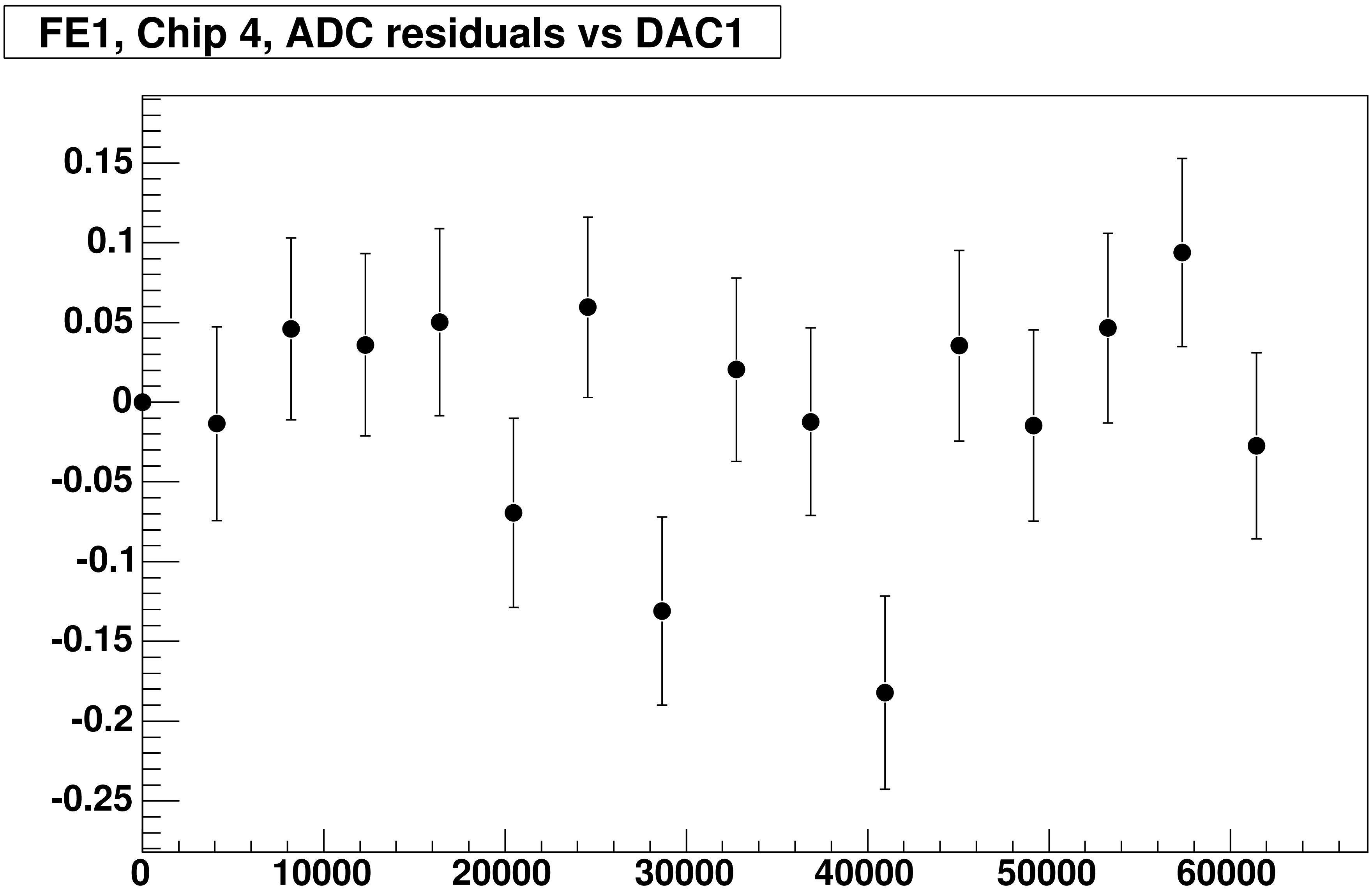


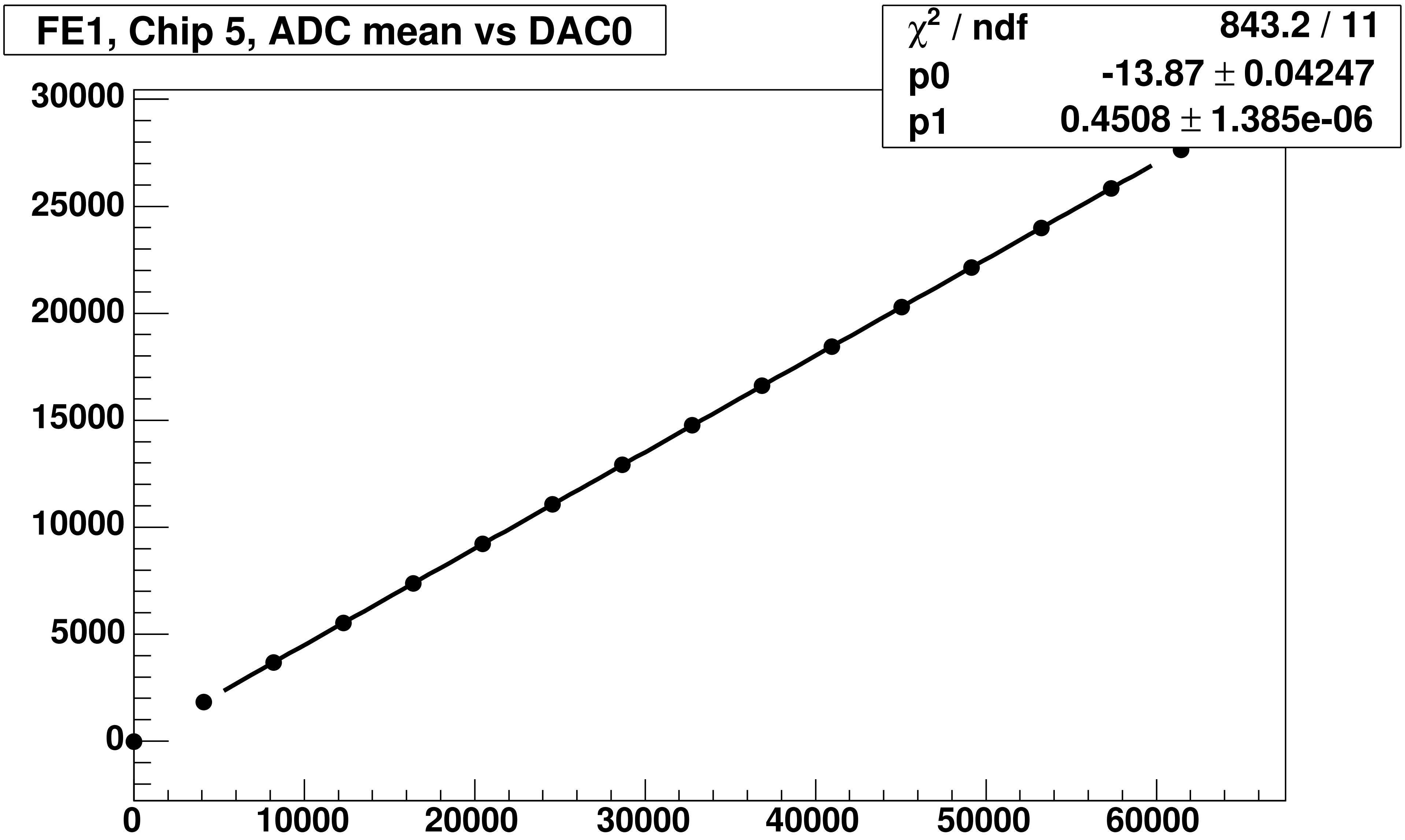
FE1, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



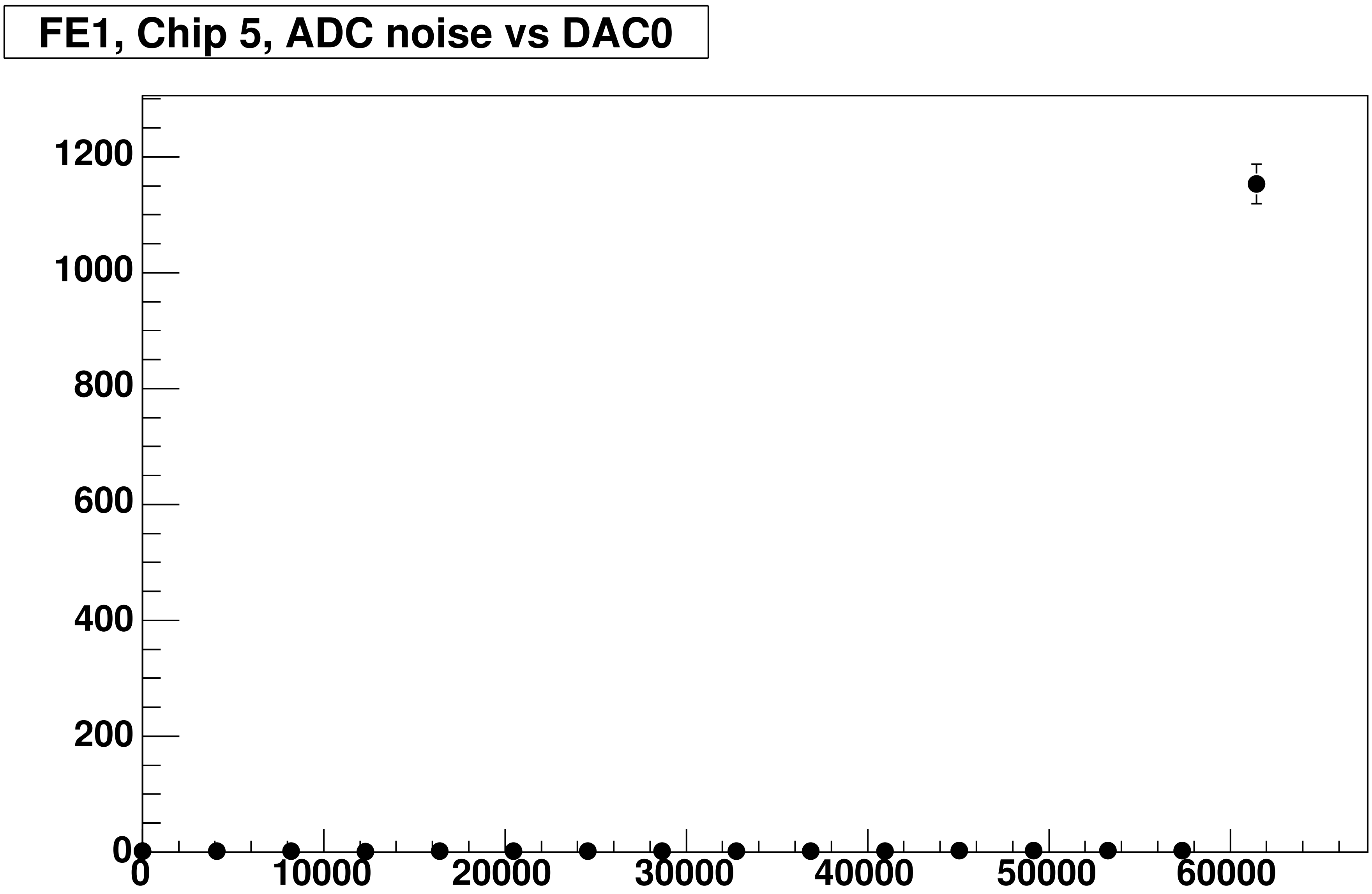
FE1, Chip 4, ADC mean vs DAC1
χ² / ndf 21.92 / 11
p0 -10.53 ± 0.0379
p1 -2.634e-06 ± 1.058e-06
-10.5
-10.6
-10.7
-10.8
-10.9
0
10000
20000
30000
40000
50000
60000

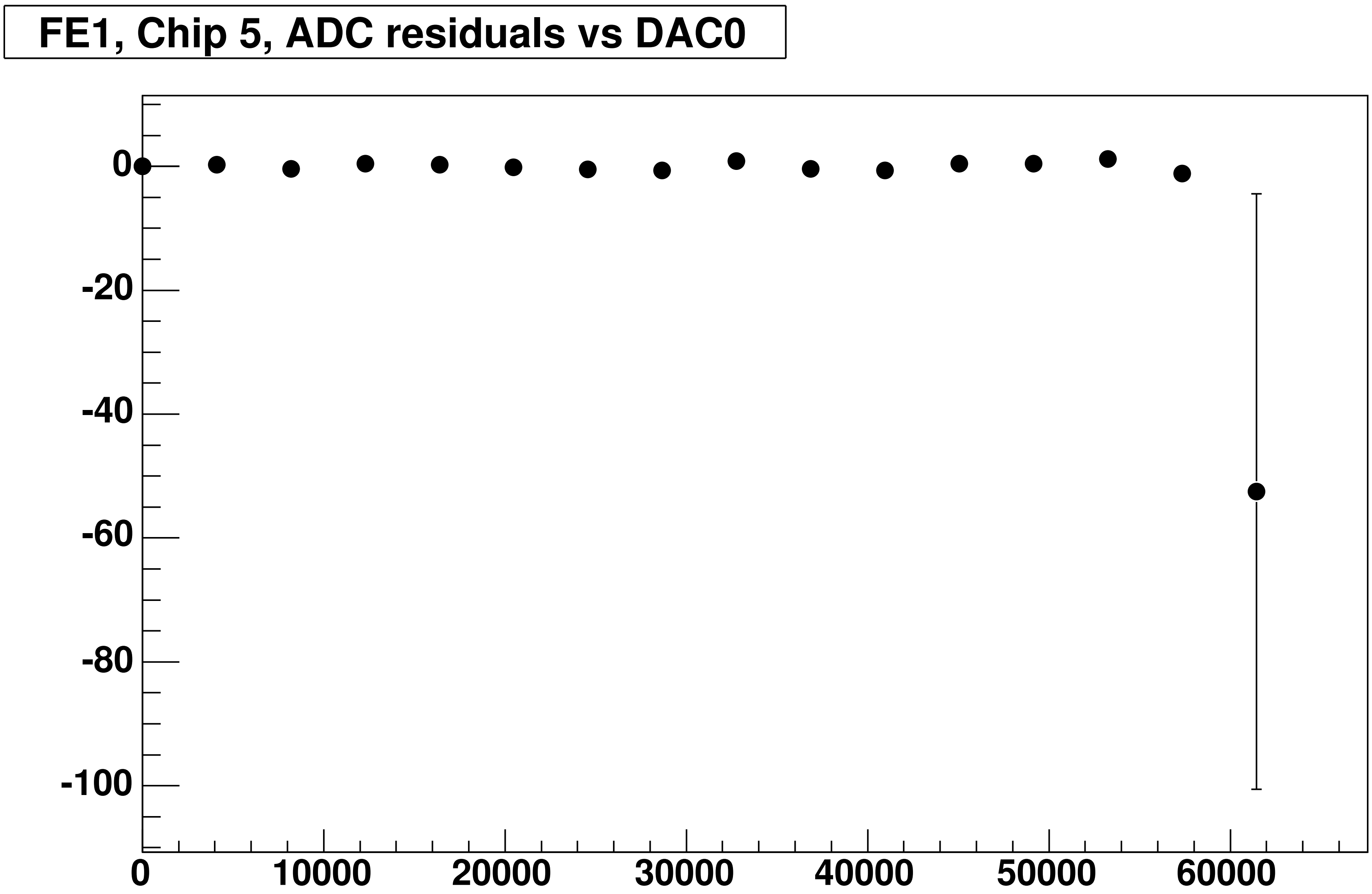

FE1, Chip 4, ADC noise vs DAC1
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

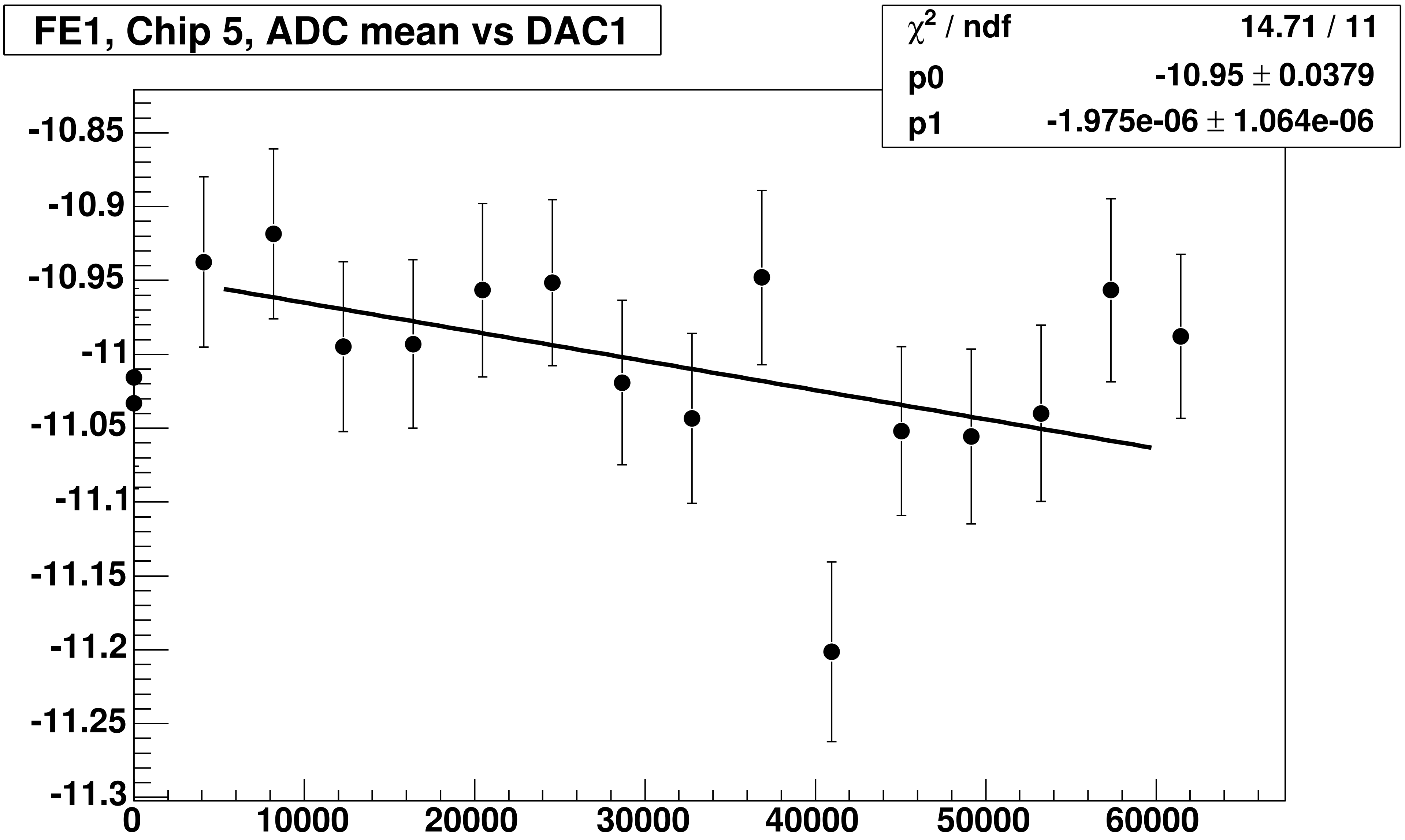

FE1, Chip 4, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000



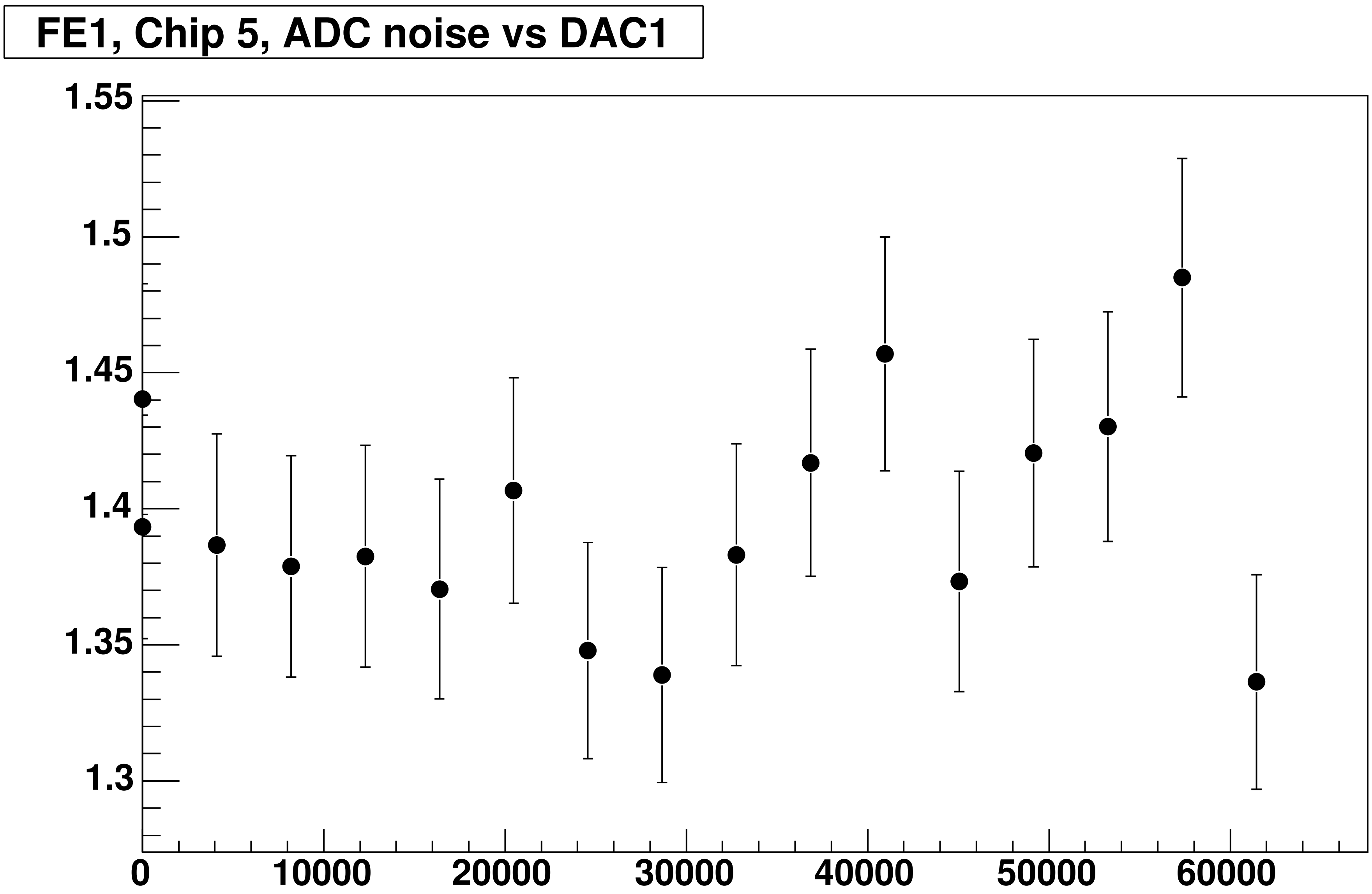
FE1, Chip 5, ADC mean vs DAC0
χ² / ndf 843.2 / 11
p0 -13.87 ± 0.04247
p1 0.4508 ± 1.385e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

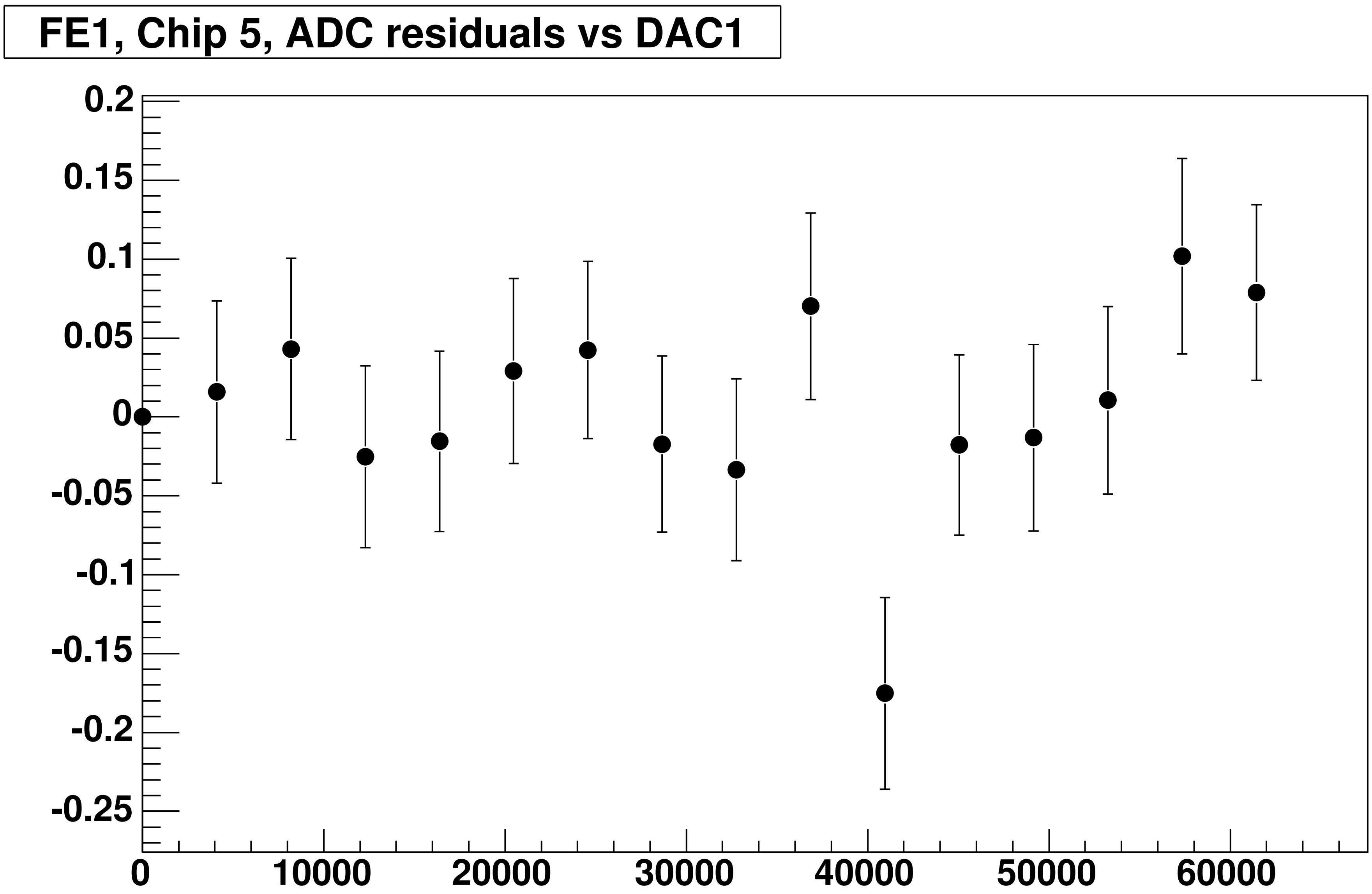

FE1, Chip 5, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000


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

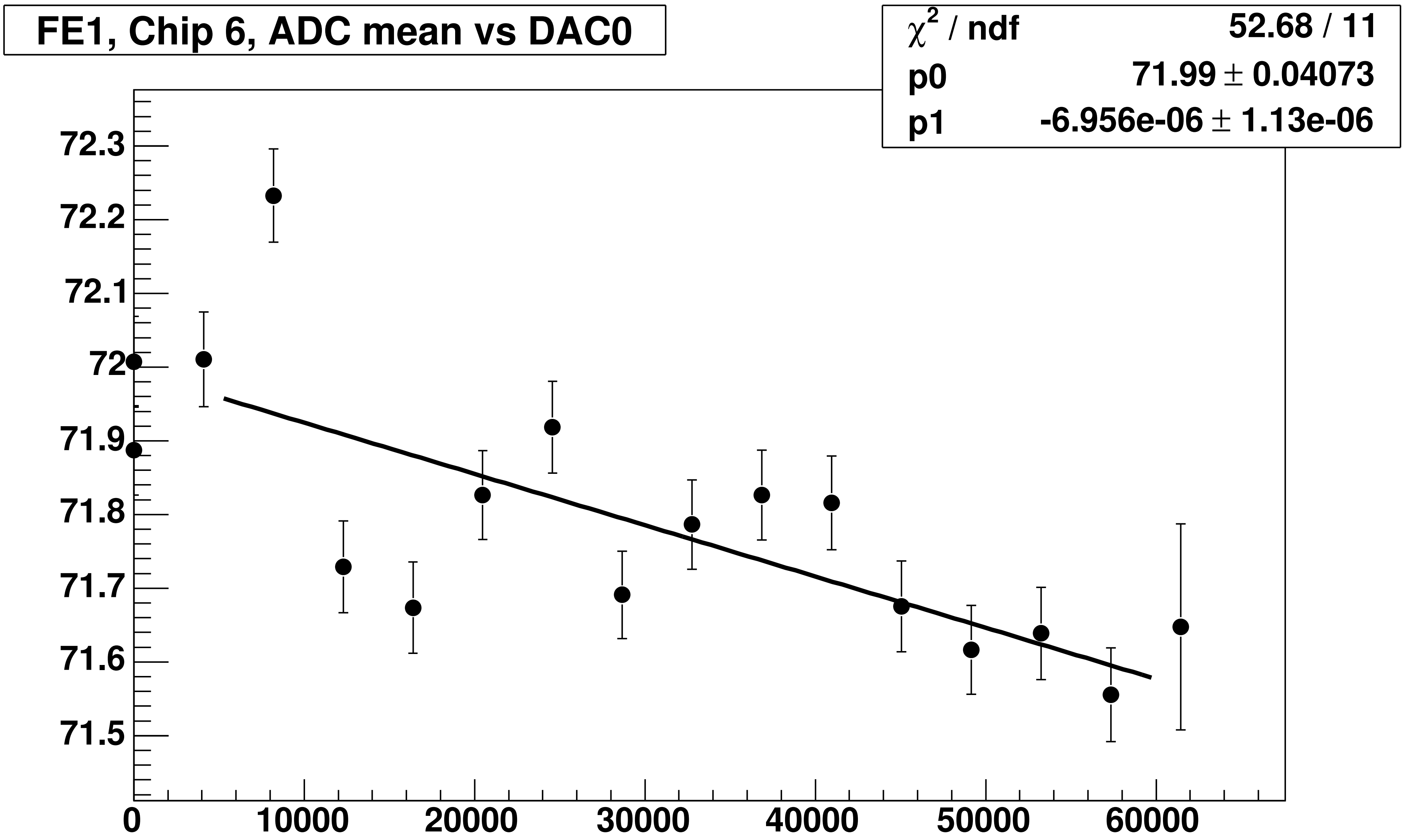


FE1, Chip 5, ADC mean vs DAC1
χ² / ndf 14.71 / 11
p0 -10.95 ± 0.0379
p1 -1.975e-06 ± 1.064e-06
-10.85
-10.9
-10.95
-11
-11.05
-11.1
-11.15
-11.2
-11.25
-11.3
0
10000
20000
30000
40000
50000
60000

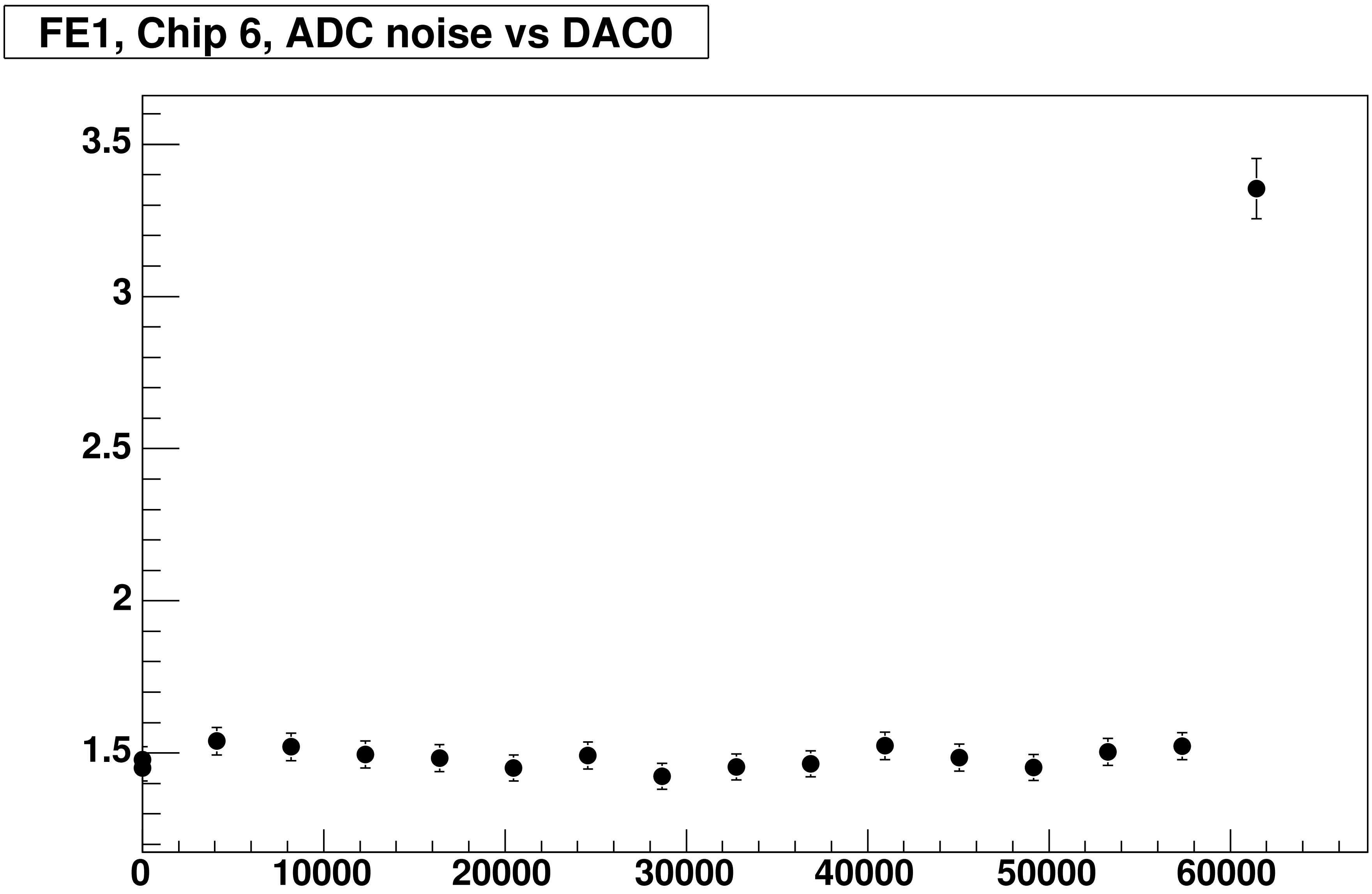

FE1, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

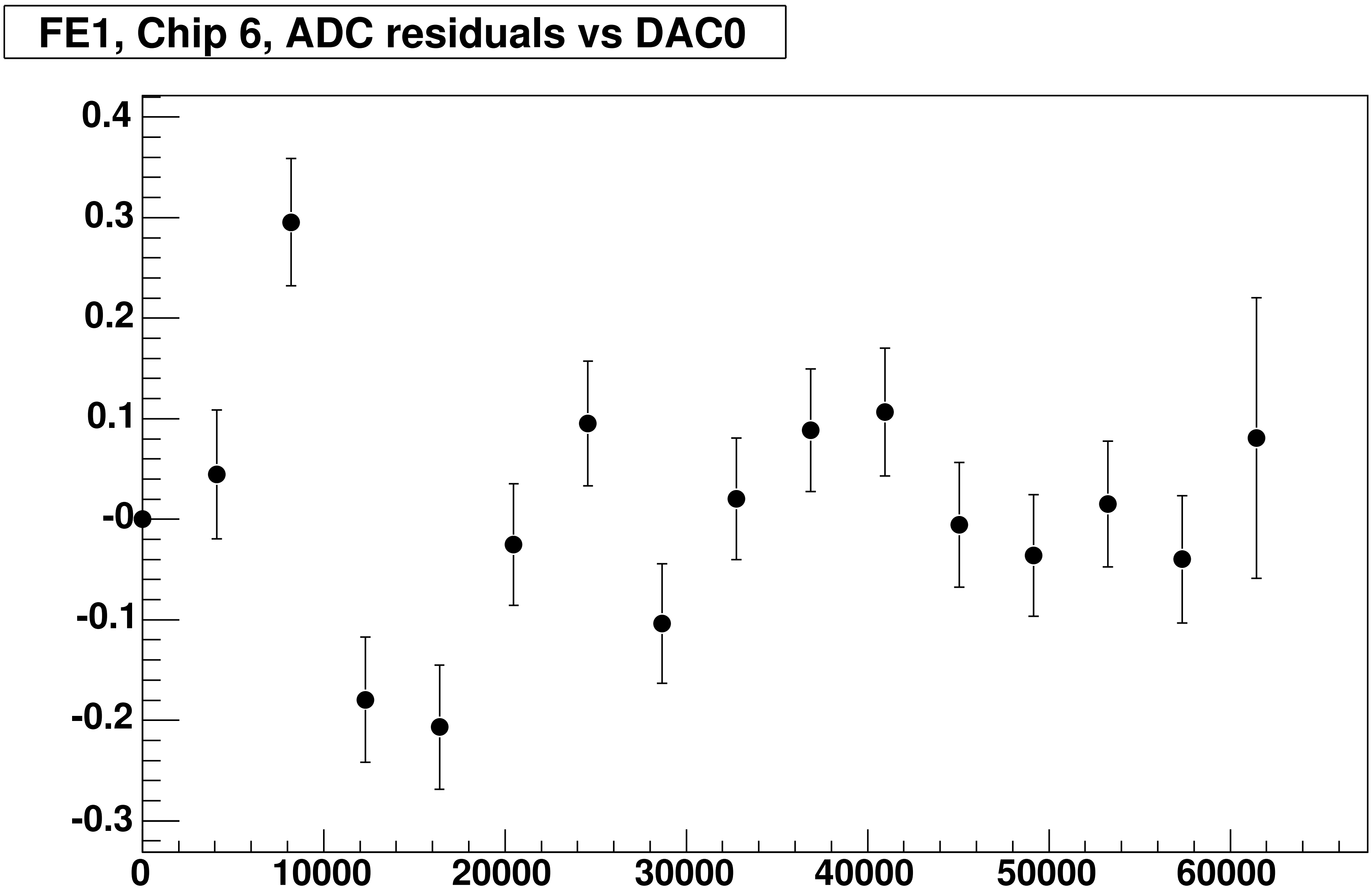


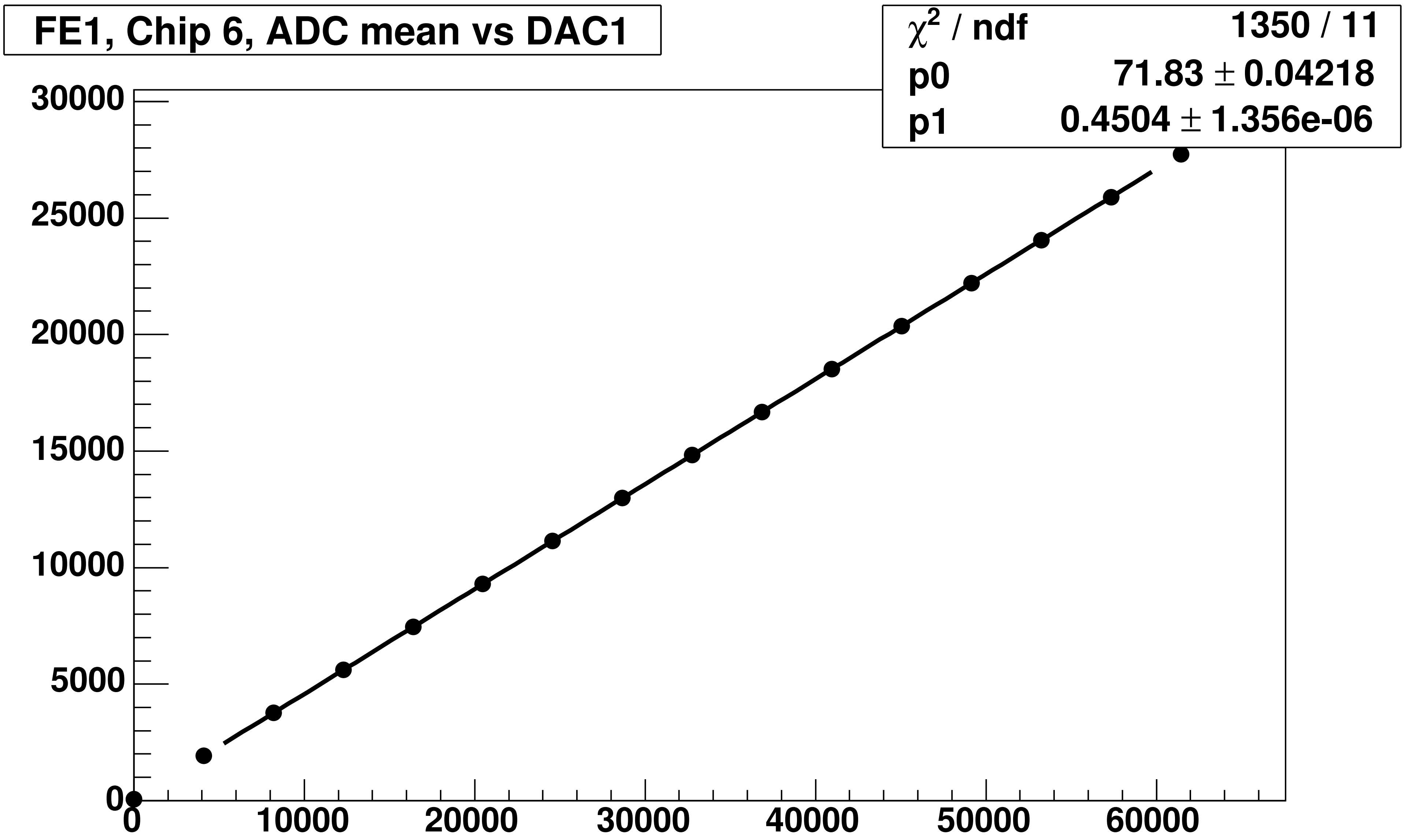
FE1, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000



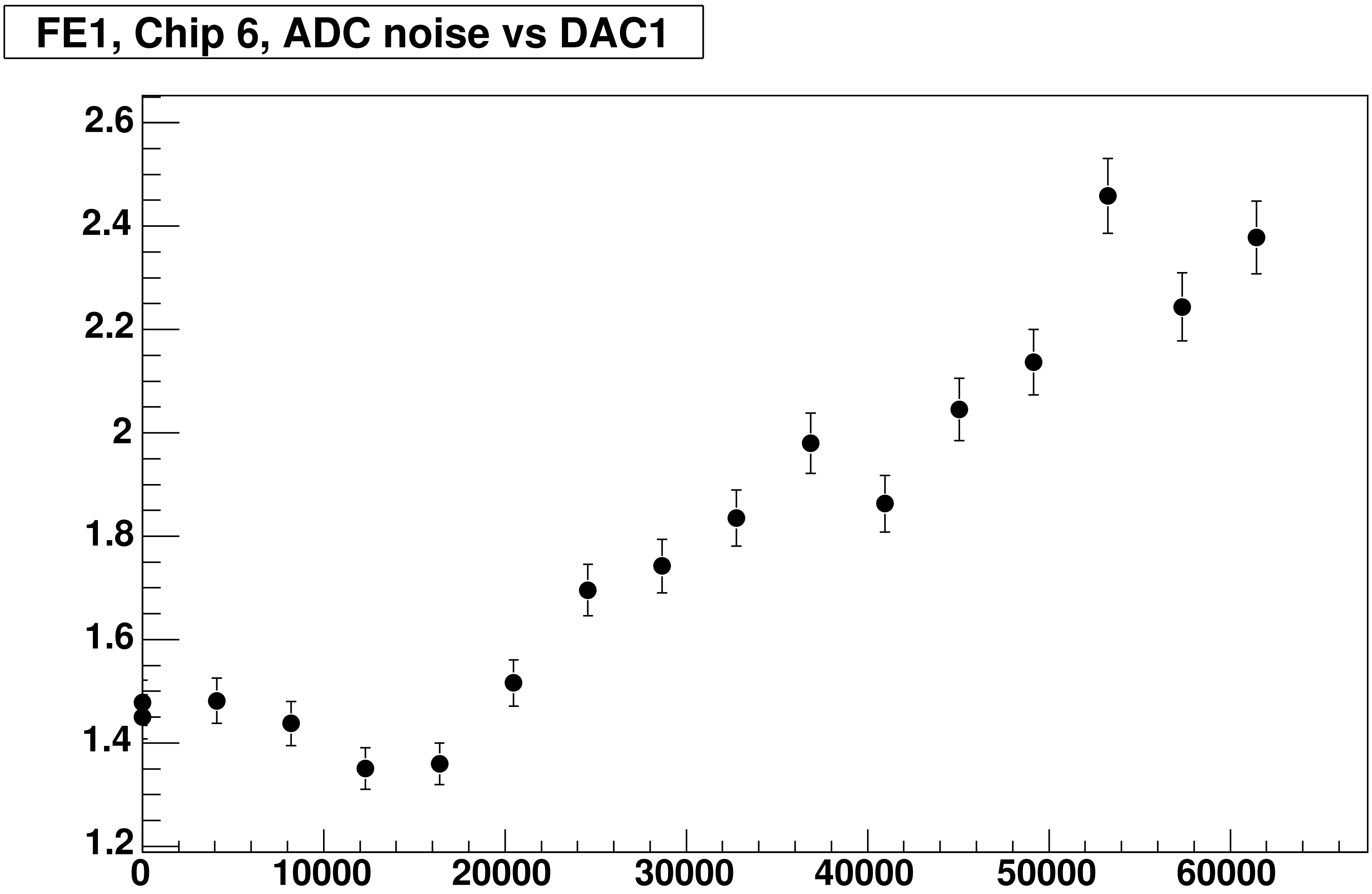
FE1, Chip 6, ADC mean vs DAC0
χ^2 / ndf 52.68 / 11
p0 71.99 ± 0.04073
p1 -6.956e-06 ± 1.13e-06
72.3
72.2
72.1
72
71.9
71.8
71.7
71.6
71.5
0
10000
20000
30000
40000
50000
60000

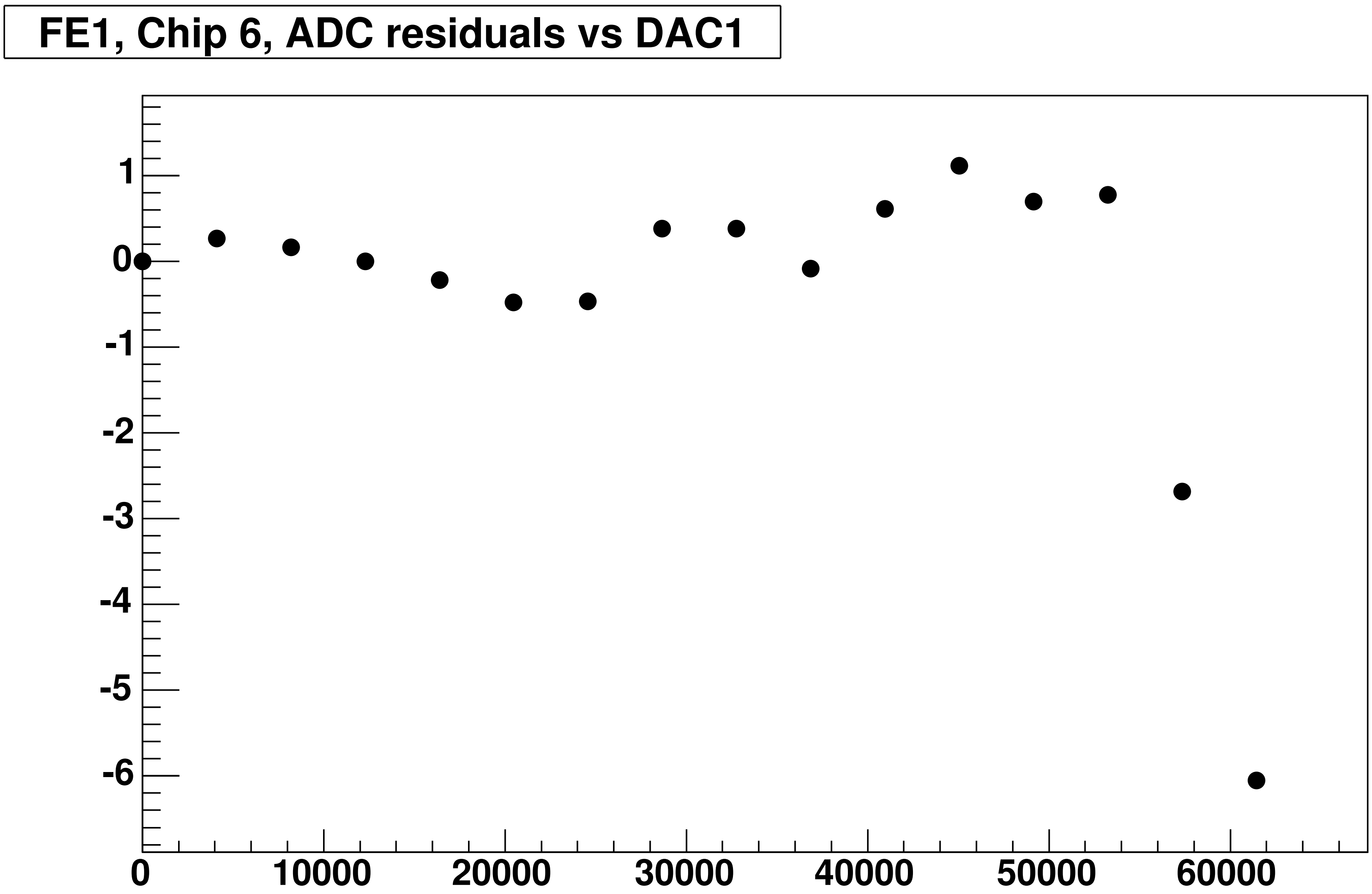

FE1, Chip 6, ADC noise vs DAC0
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000


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

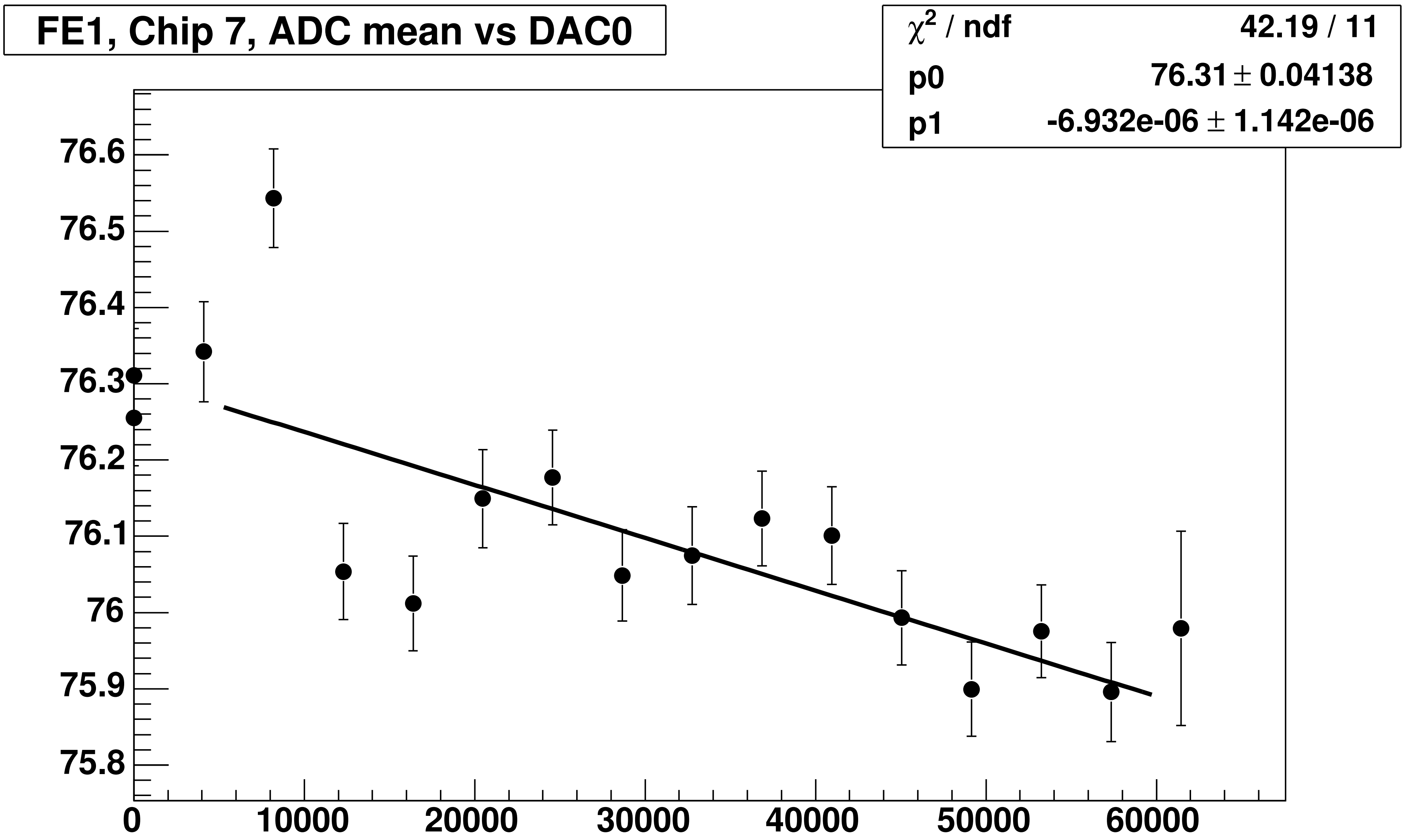


FE1, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1350 / 11
p0 71.83 ± 0.04218
p1 0.4504 ± 1.356e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

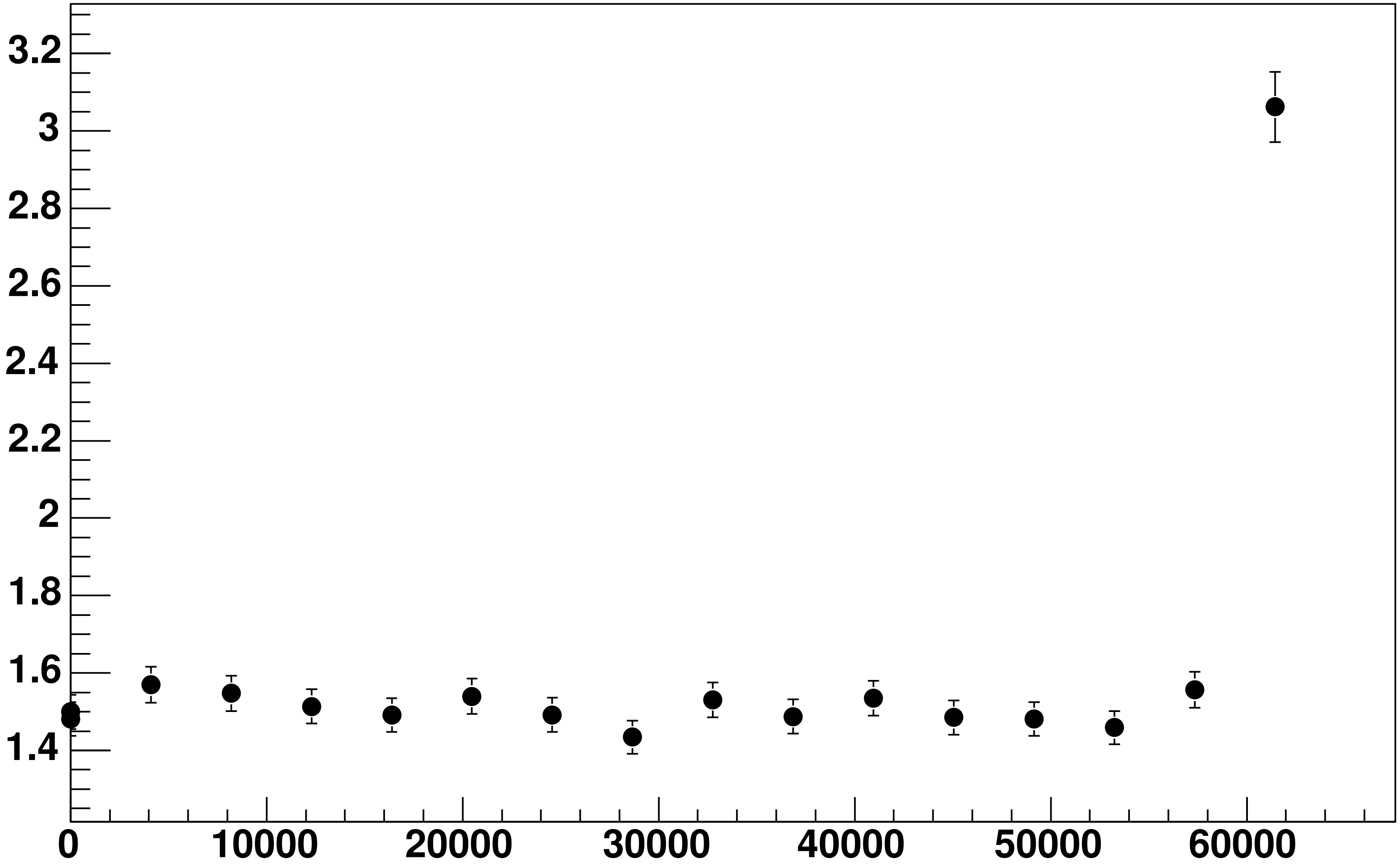


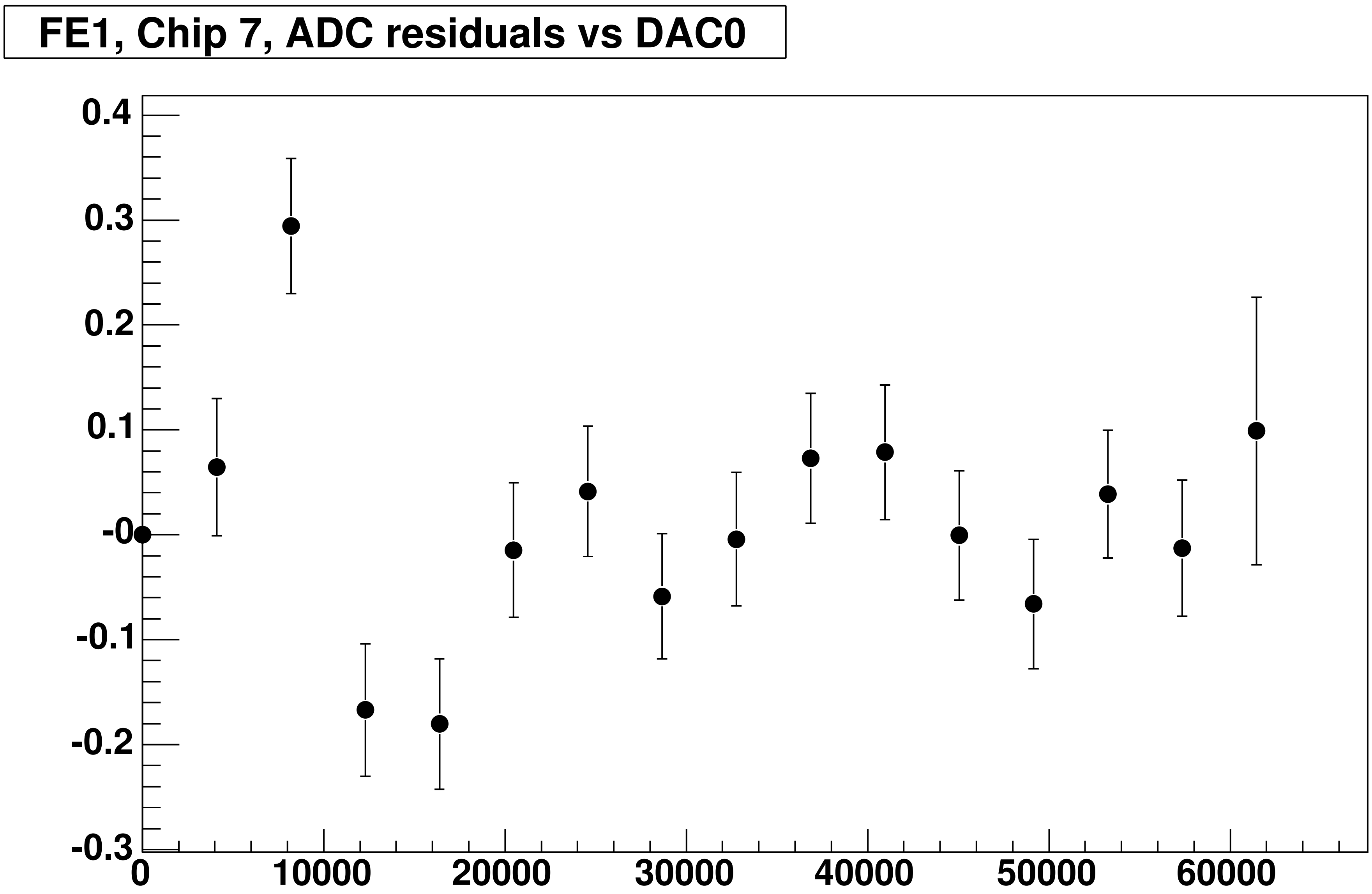
FE1, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



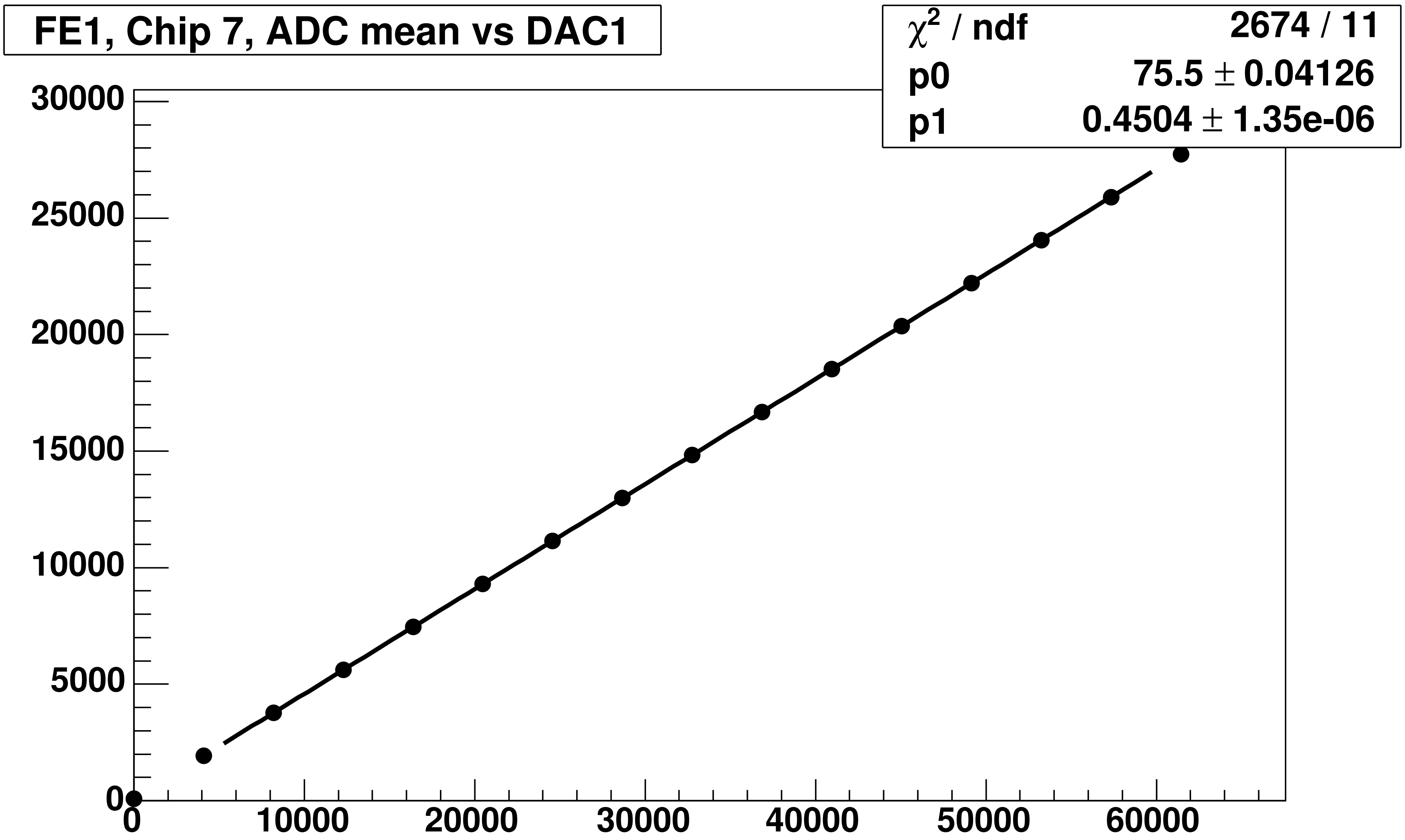
FE1, Chip 7, ADC mean vs DAC0
χ2 / ndf 42.19 / 11
p0 76.31 ± 0.04138
p1 -6.932e-06 ± 1.142e-06
76.6
76.5
76.4
76.3
76.2
76.1
76
75.9
75.8
0
10000
20000
30000
40000
50000
60000

FE1, Chip 7, ADC noise vs DAC0



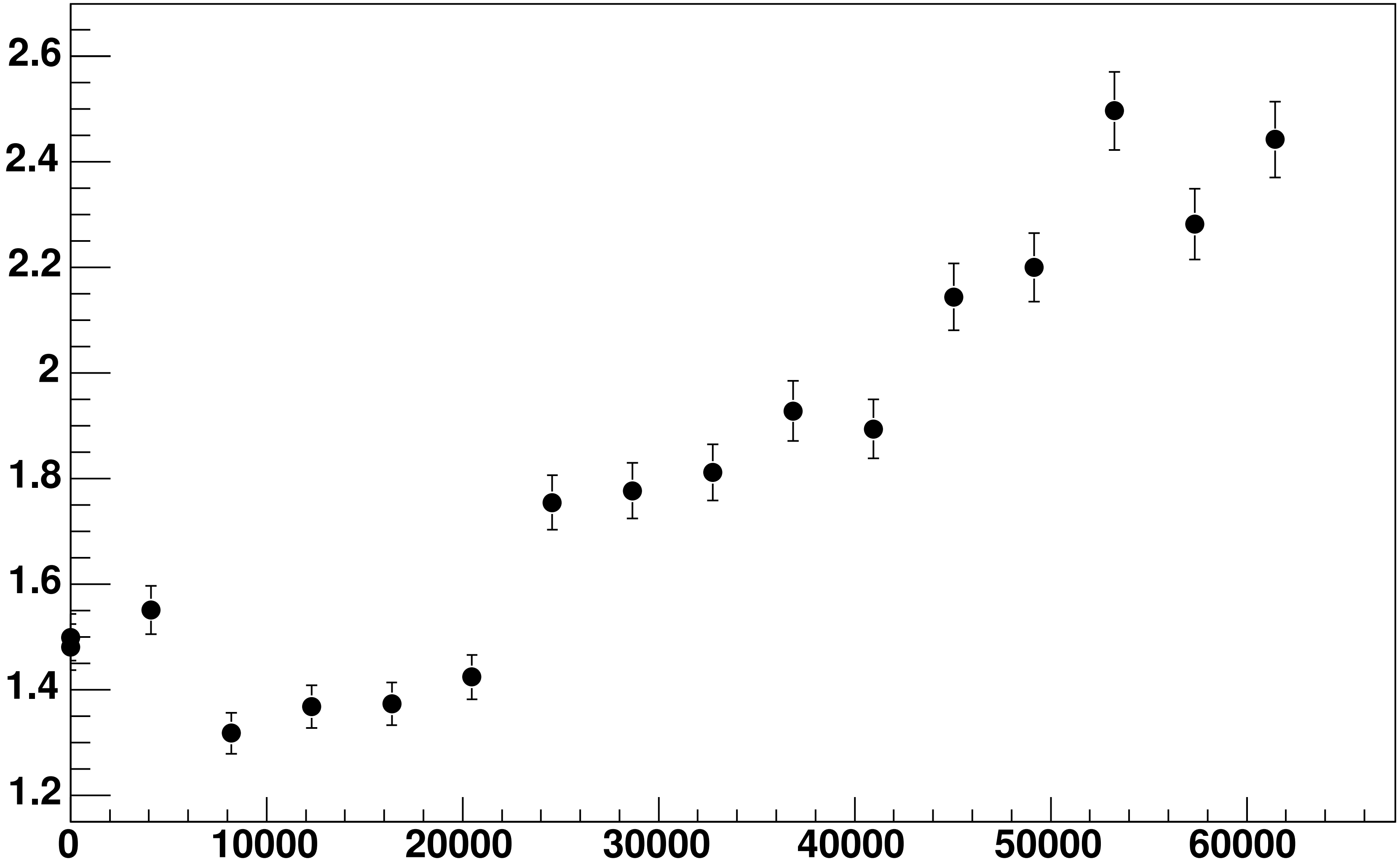


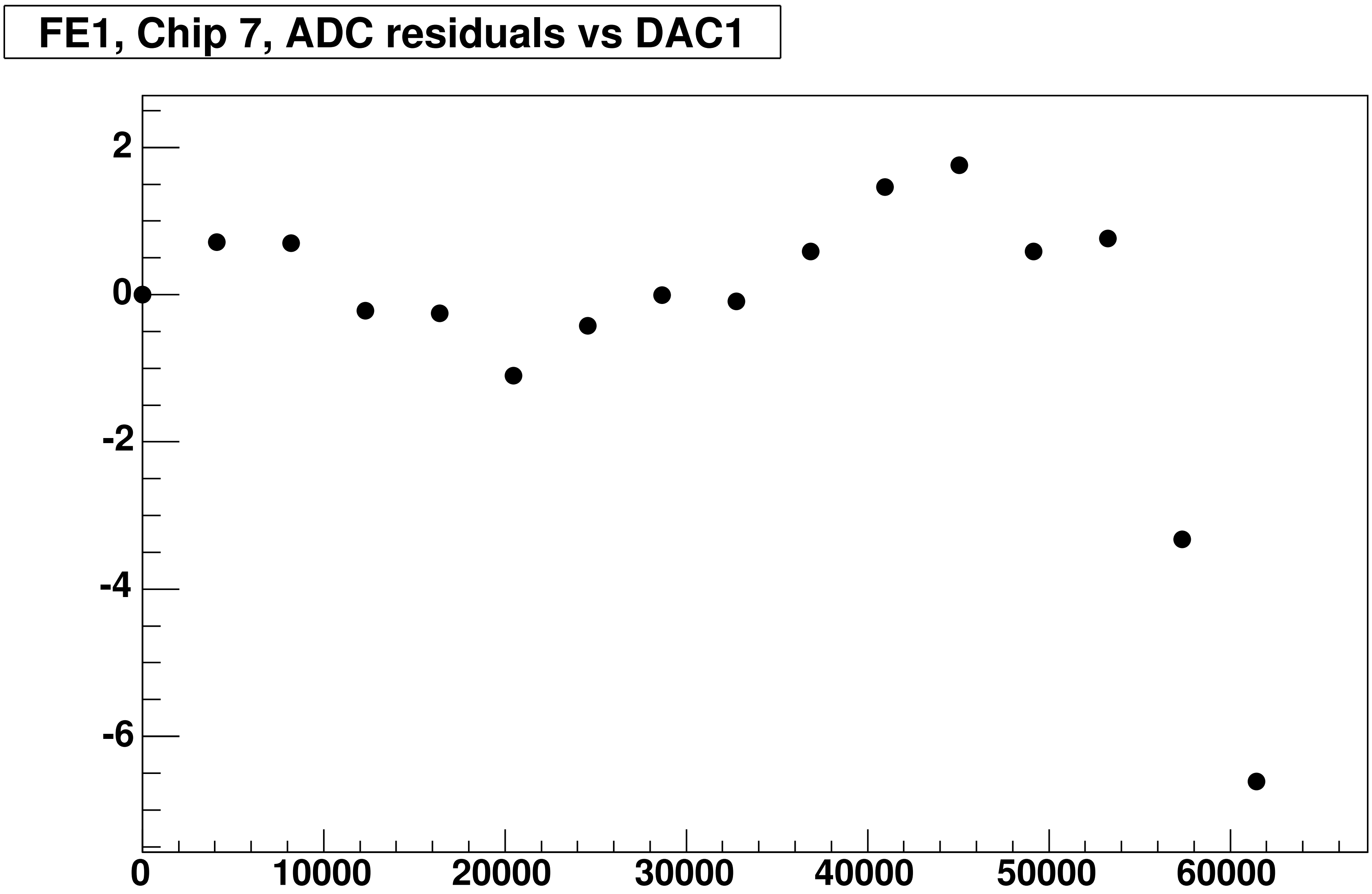
FE1, Chip 7, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

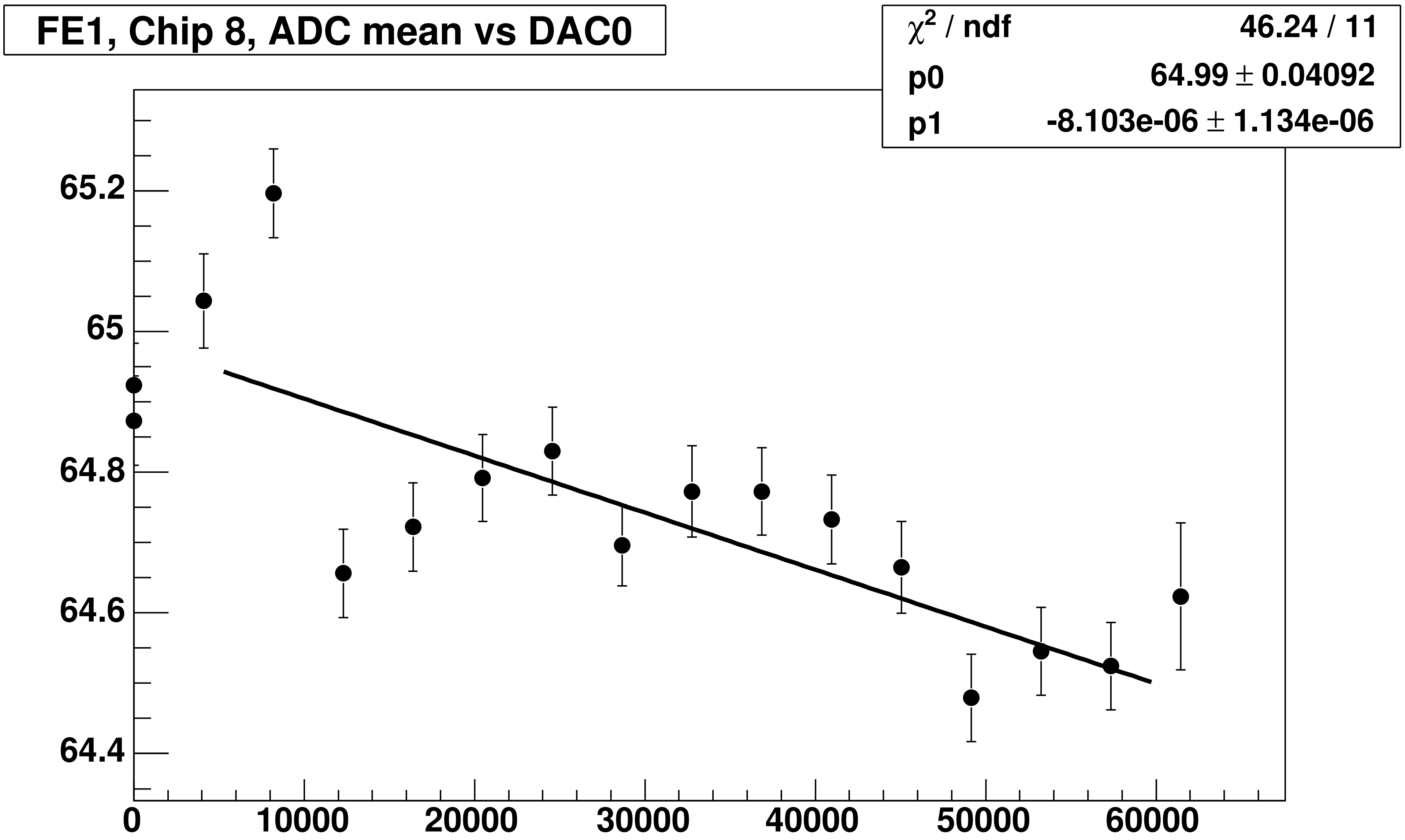


FE1, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2674 / 11
p0 75.5 ± 0.04126
p1 0.4504 ± 1.35e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

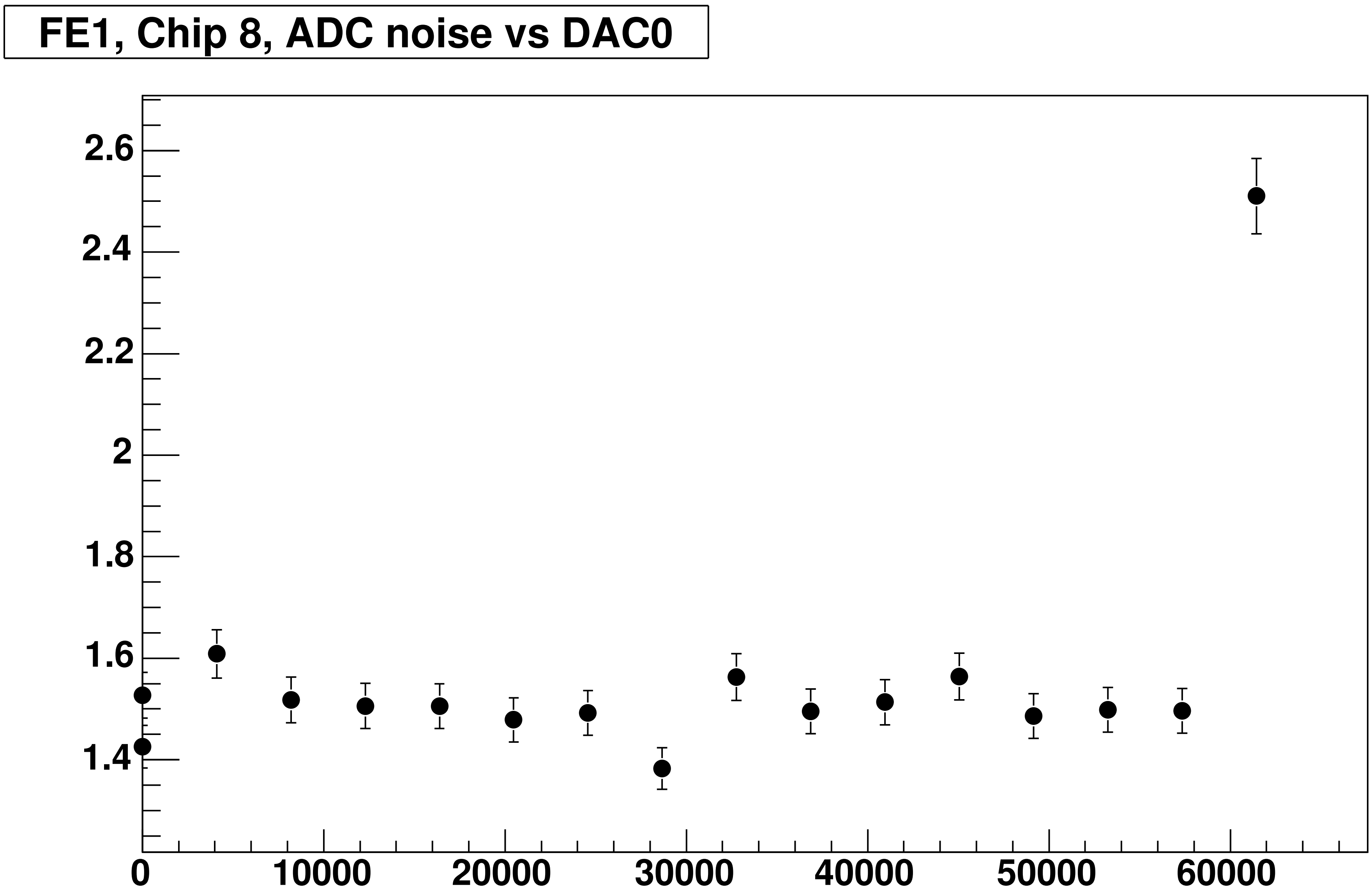
FE1, Chip 7, ADC noise vs DAC1

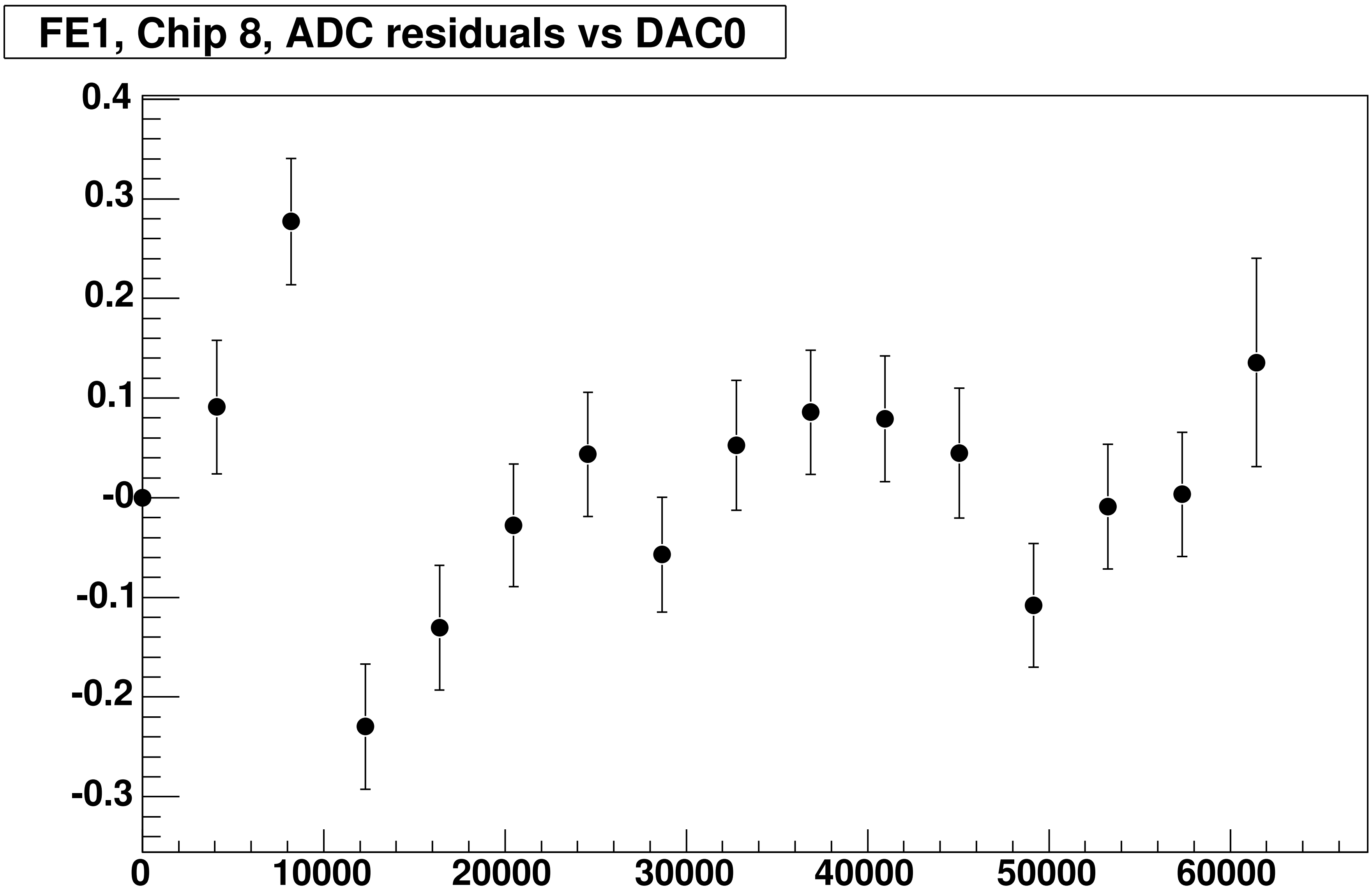



FE1, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

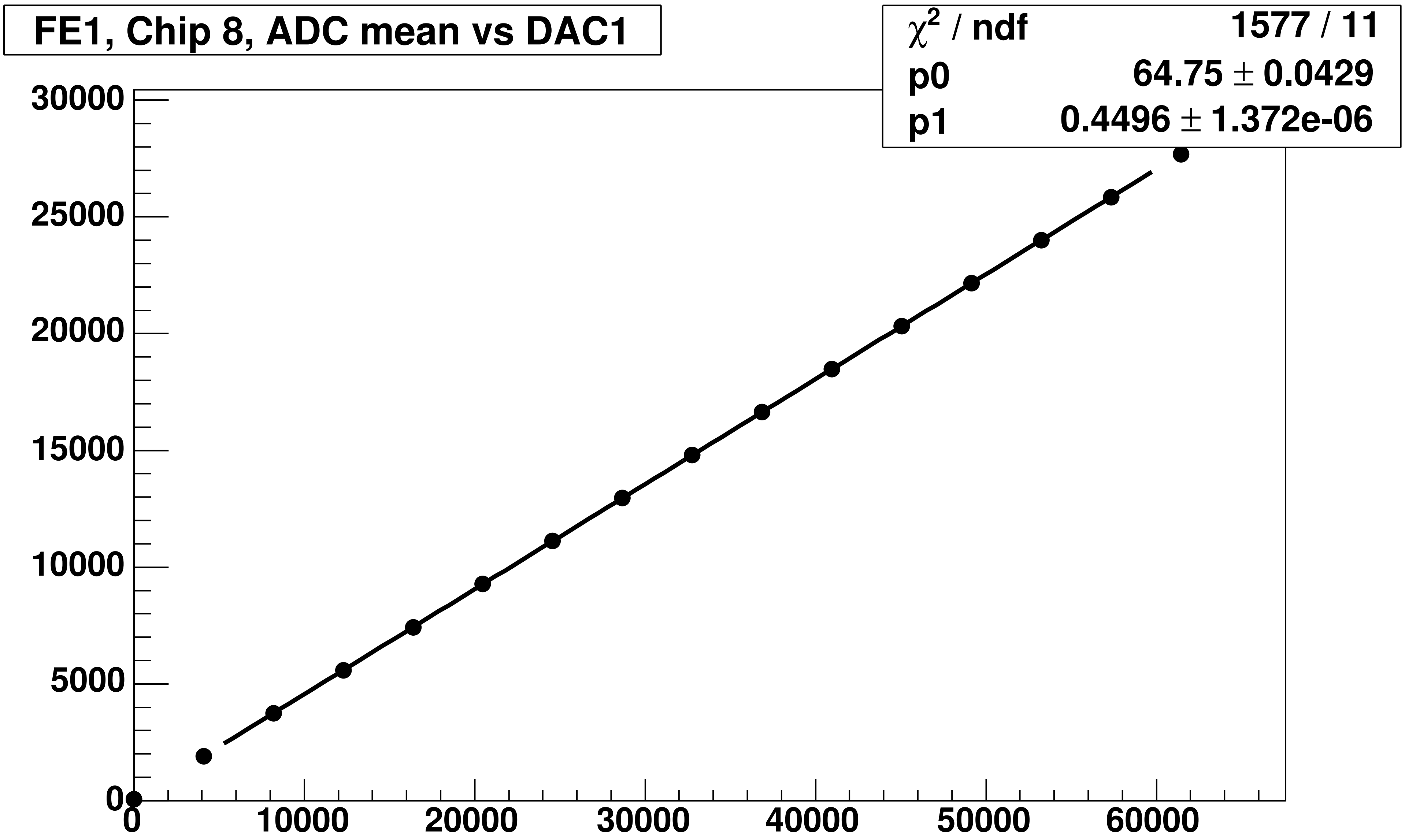


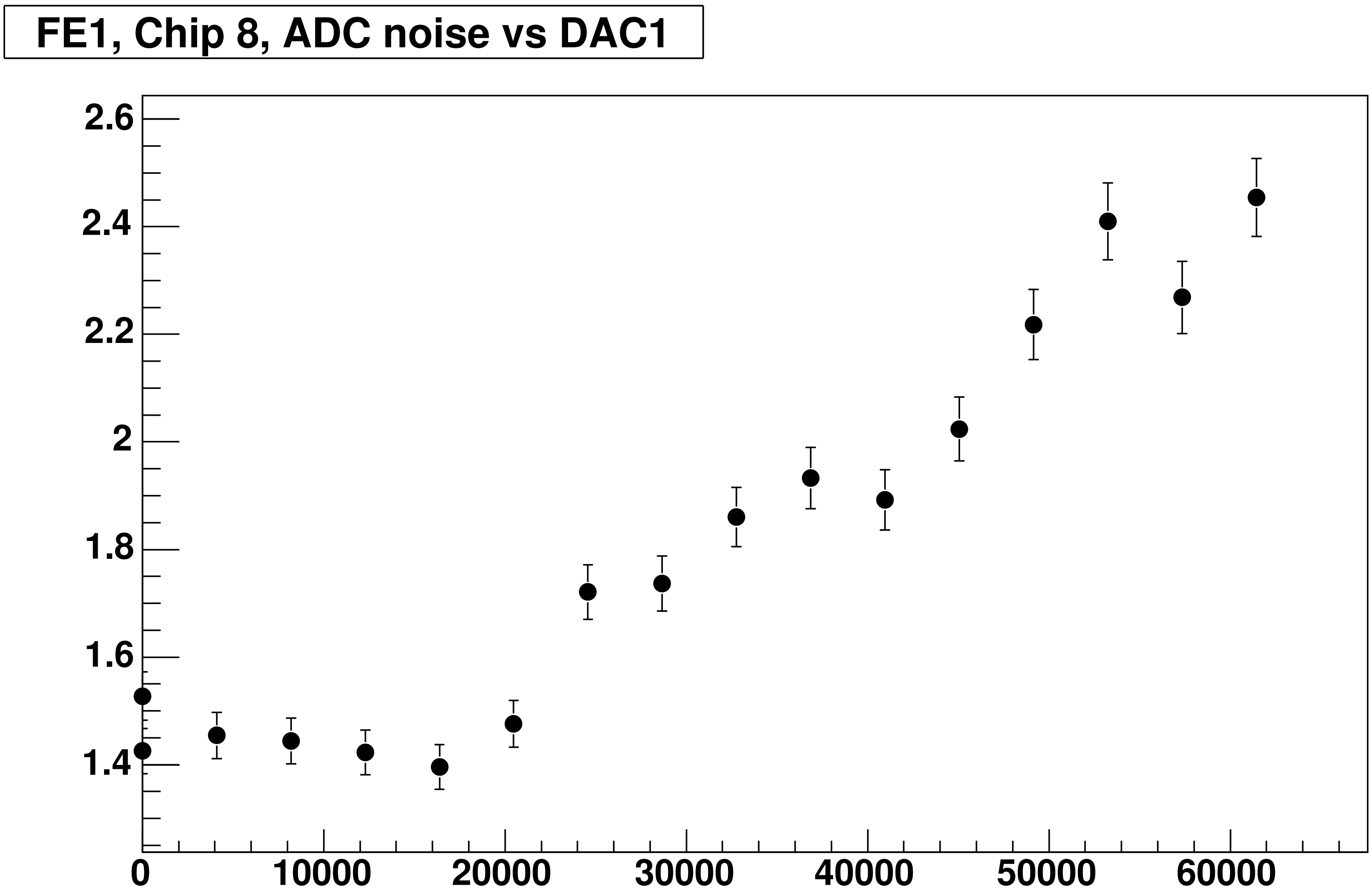
FE1, Chip 8, ADC mean vs DAC0
χ^2 / ndf 46.24 / 11
p0 64.99 ± 0.04092
p1 -8.103e-06 ± 1.134e-06
65.2
65
64.8
64.6
64.4
0
10000
20000
30000
40000
50000
60000


FE1, Chip 8, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

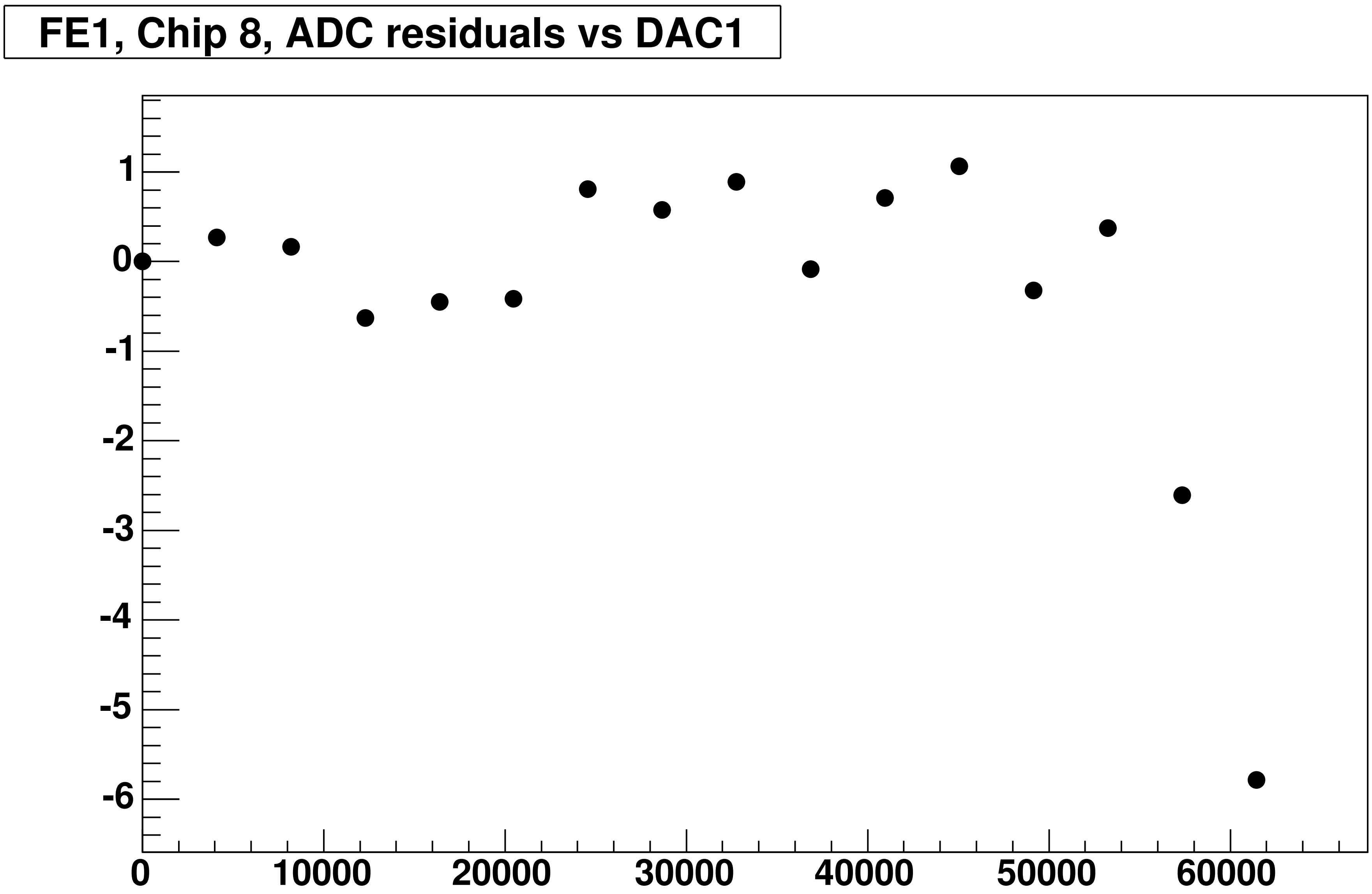


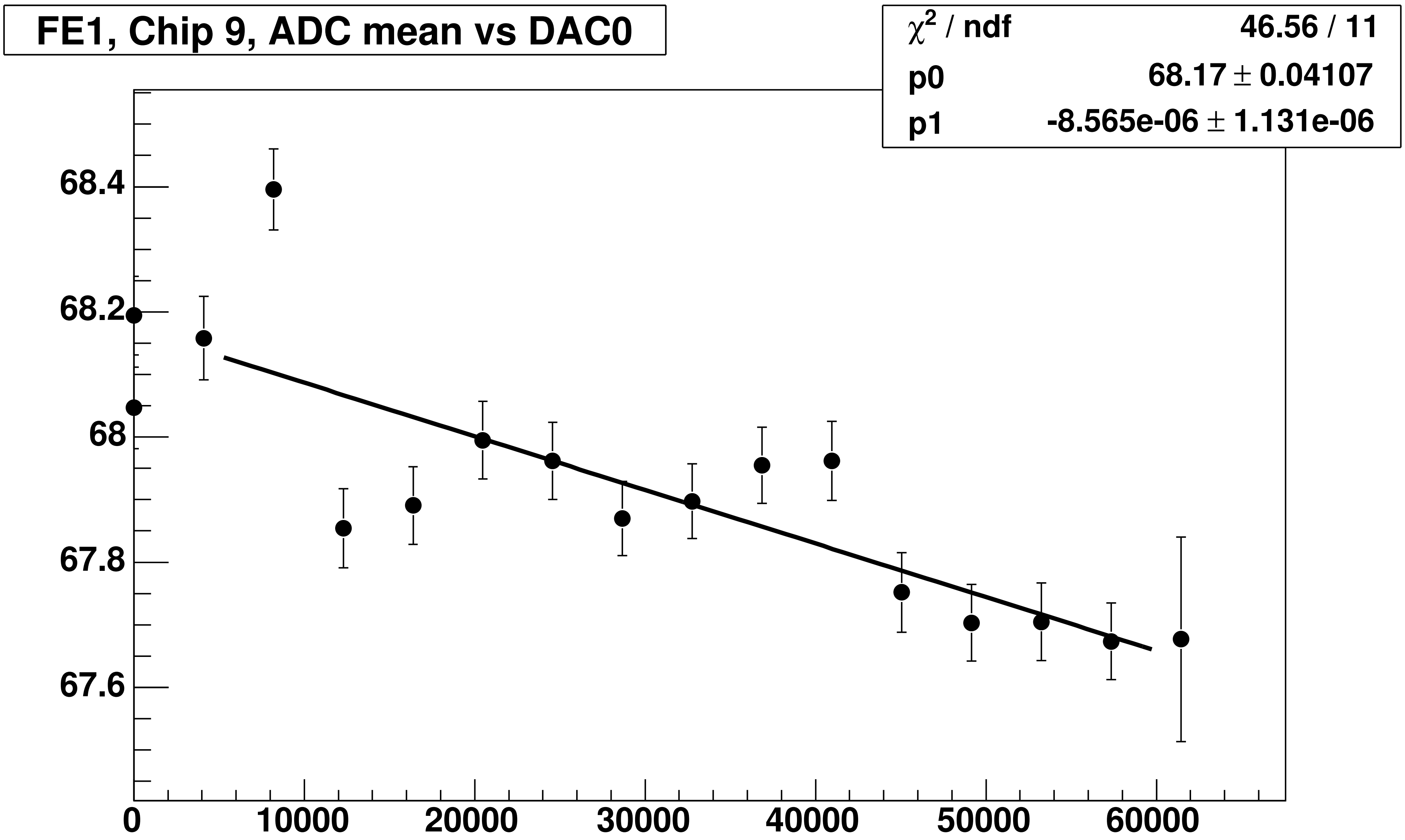
FE1, Chip 8, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE1, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1577 / 11
p0 64.75 ± 0.0429
p1 0.4496 ± 1.372e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

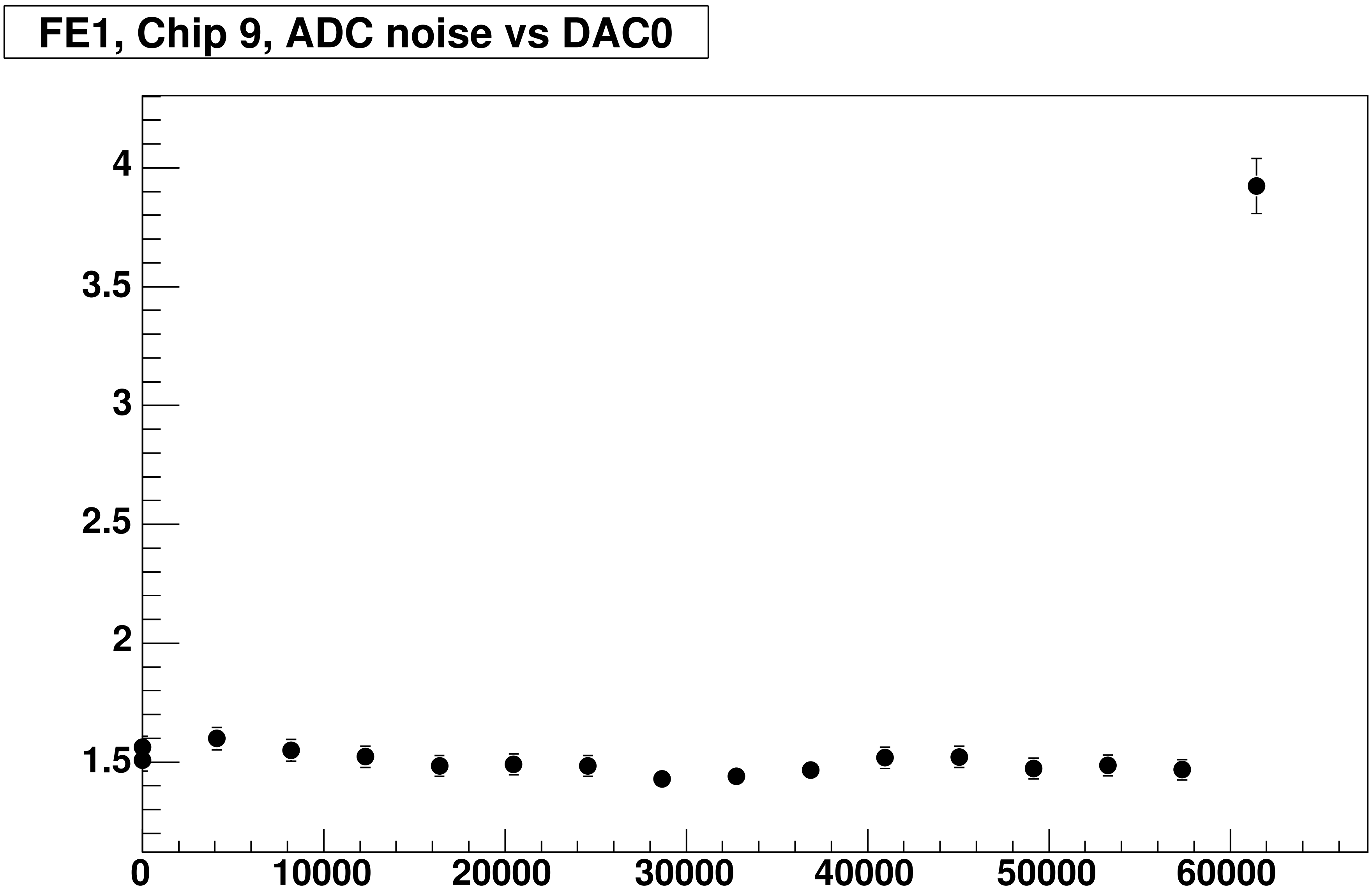


FE1, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

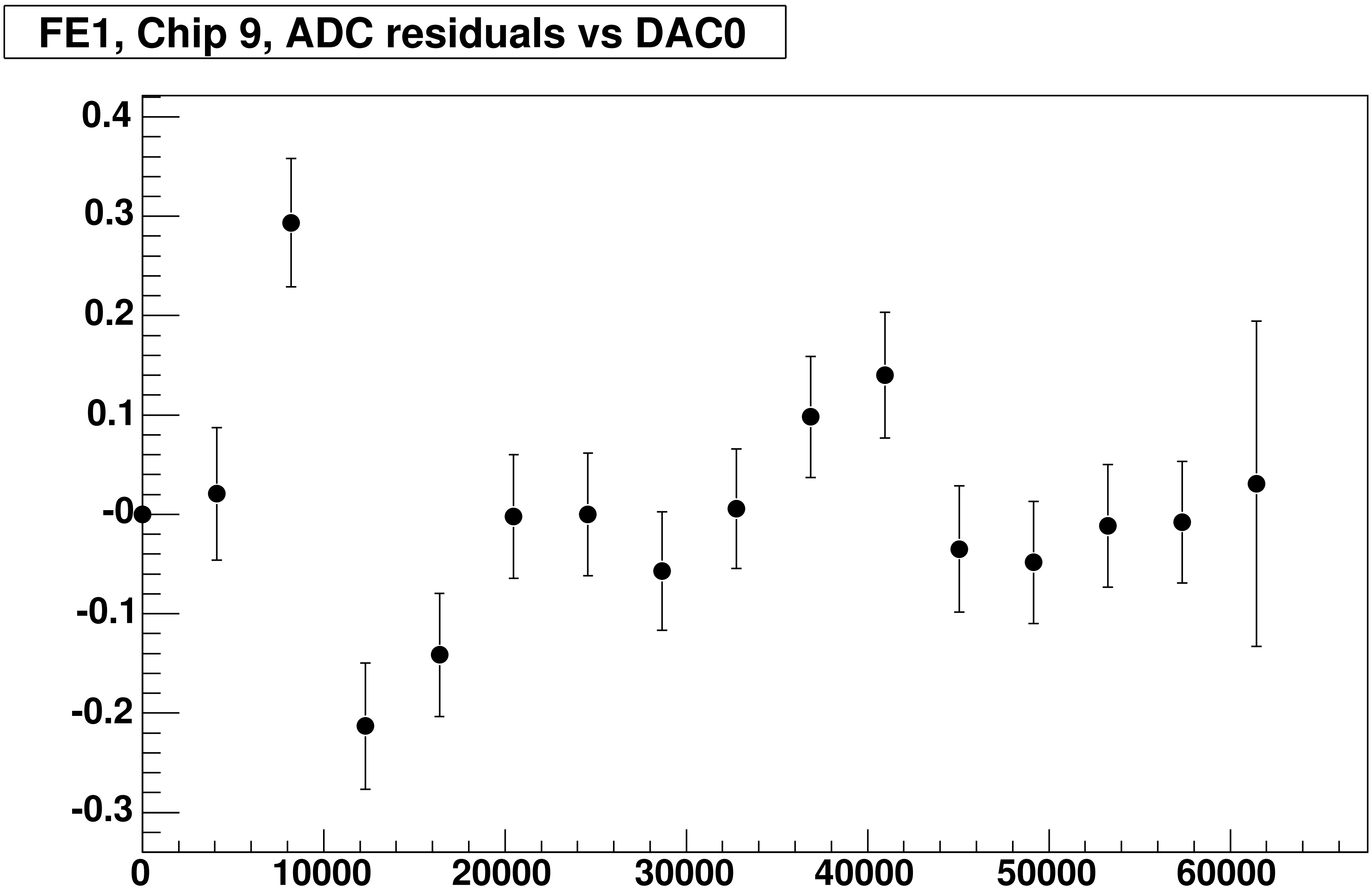

FE1, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

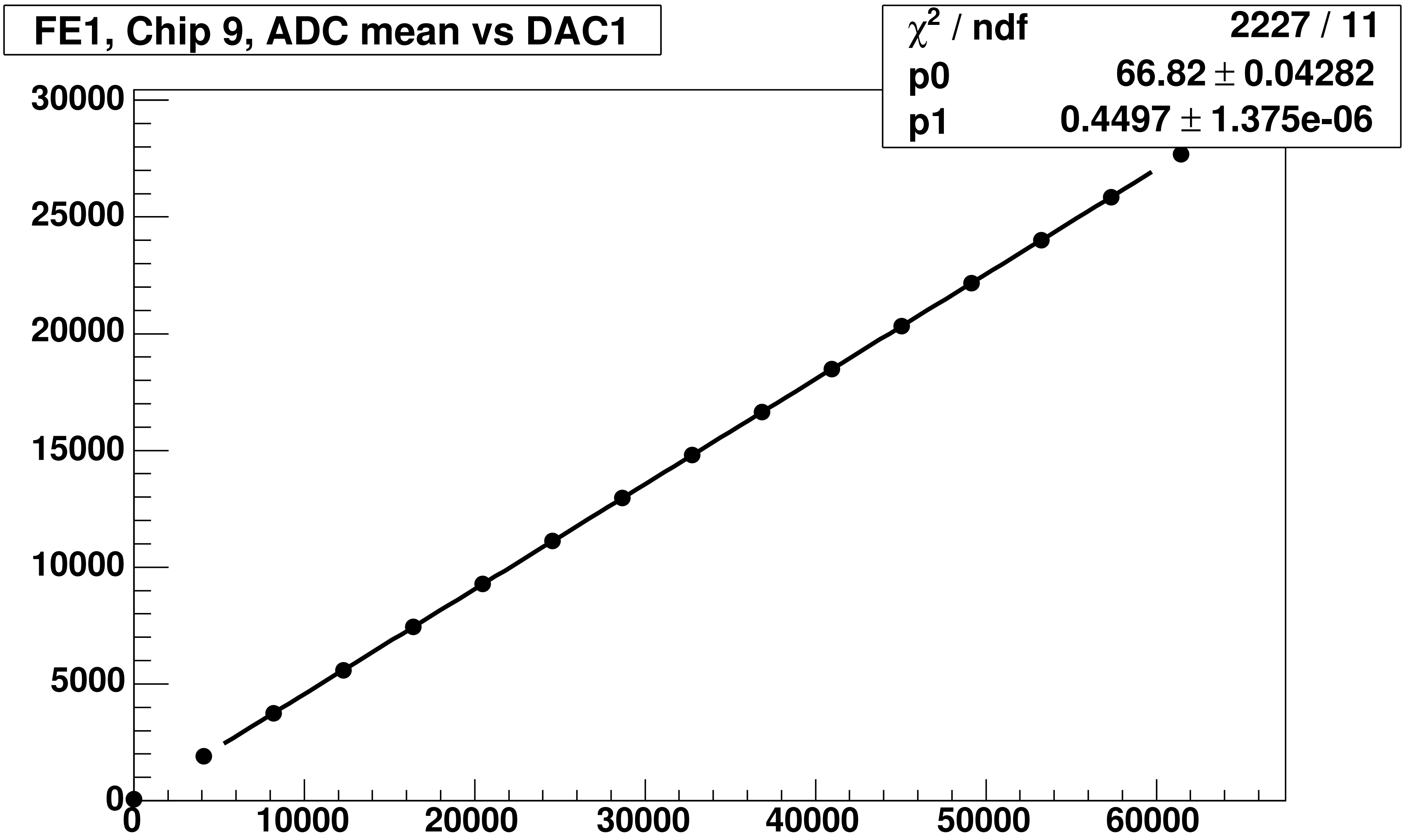


FE1, Chip 9, ADC mean vs DAC0
χ² / ndf 46.56 / 11
p0 68.17 ± 0.04107
p1 -8.565e-06 ± 1.131e-06
68.4
68.2
68
67.8
67.6
0
10000
20000
30000
40000
50000
60000

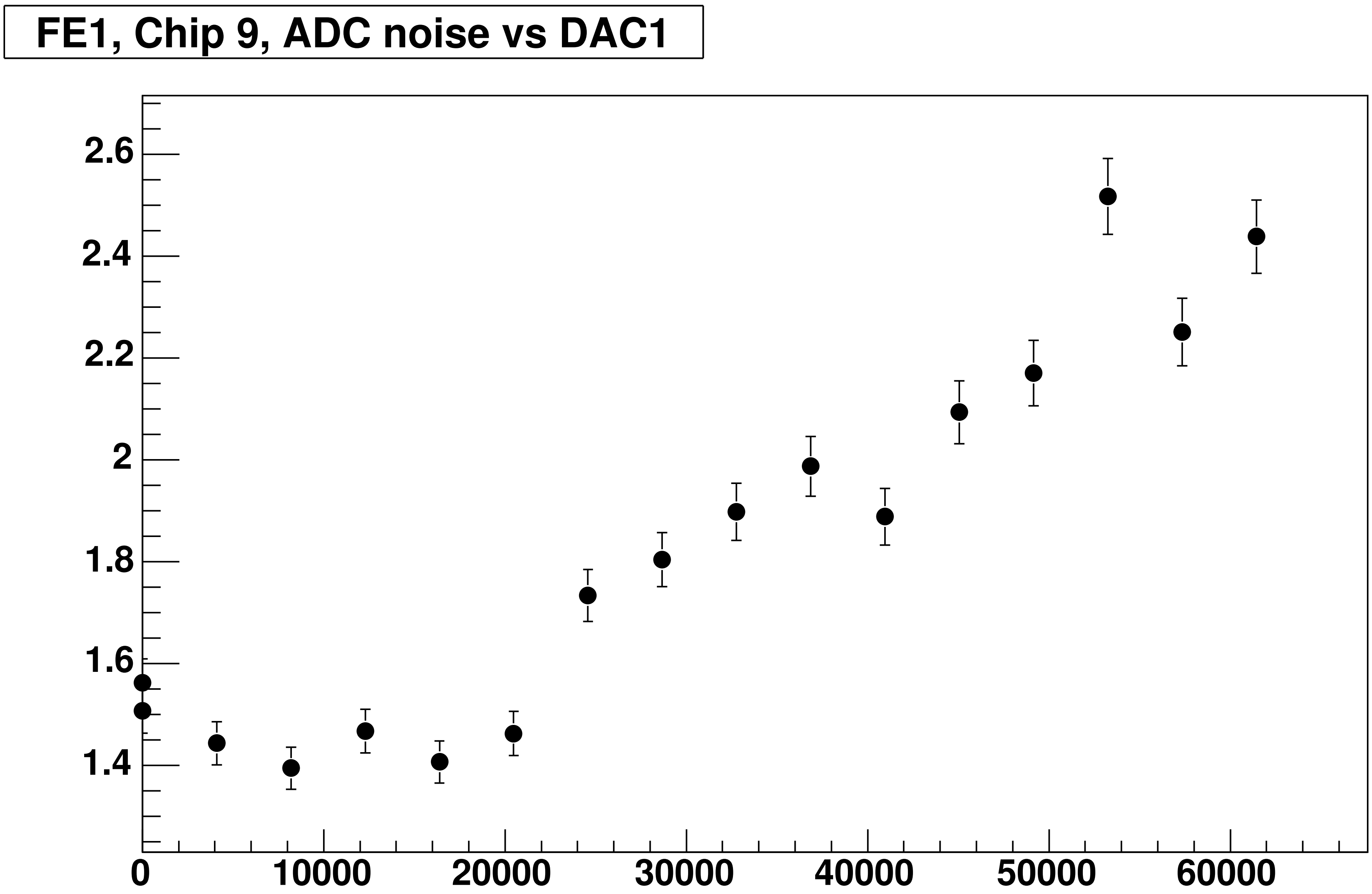


FE1, Chip 9, ADC noise vs DAC0
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

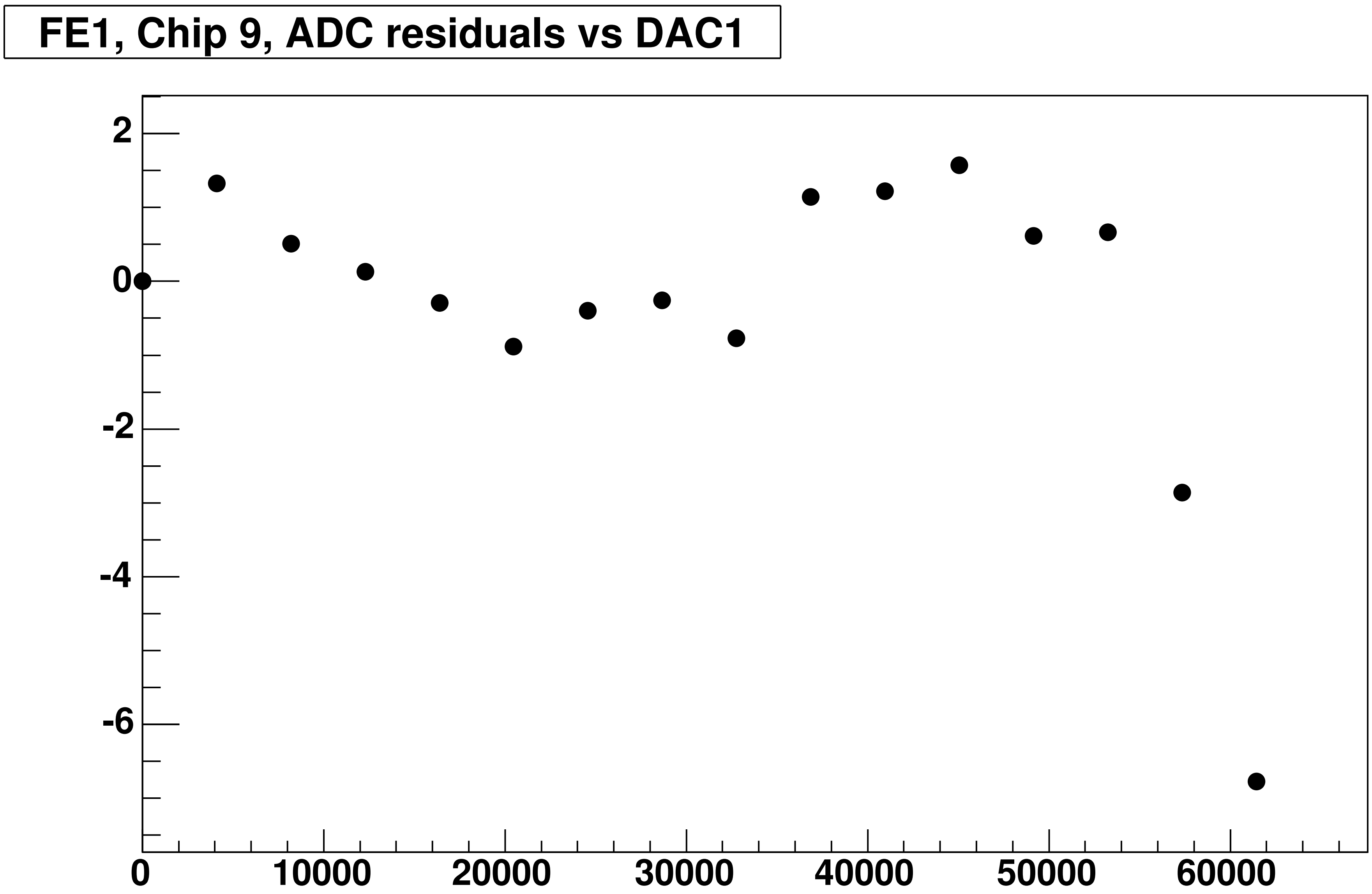

FE1, Chip 9, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

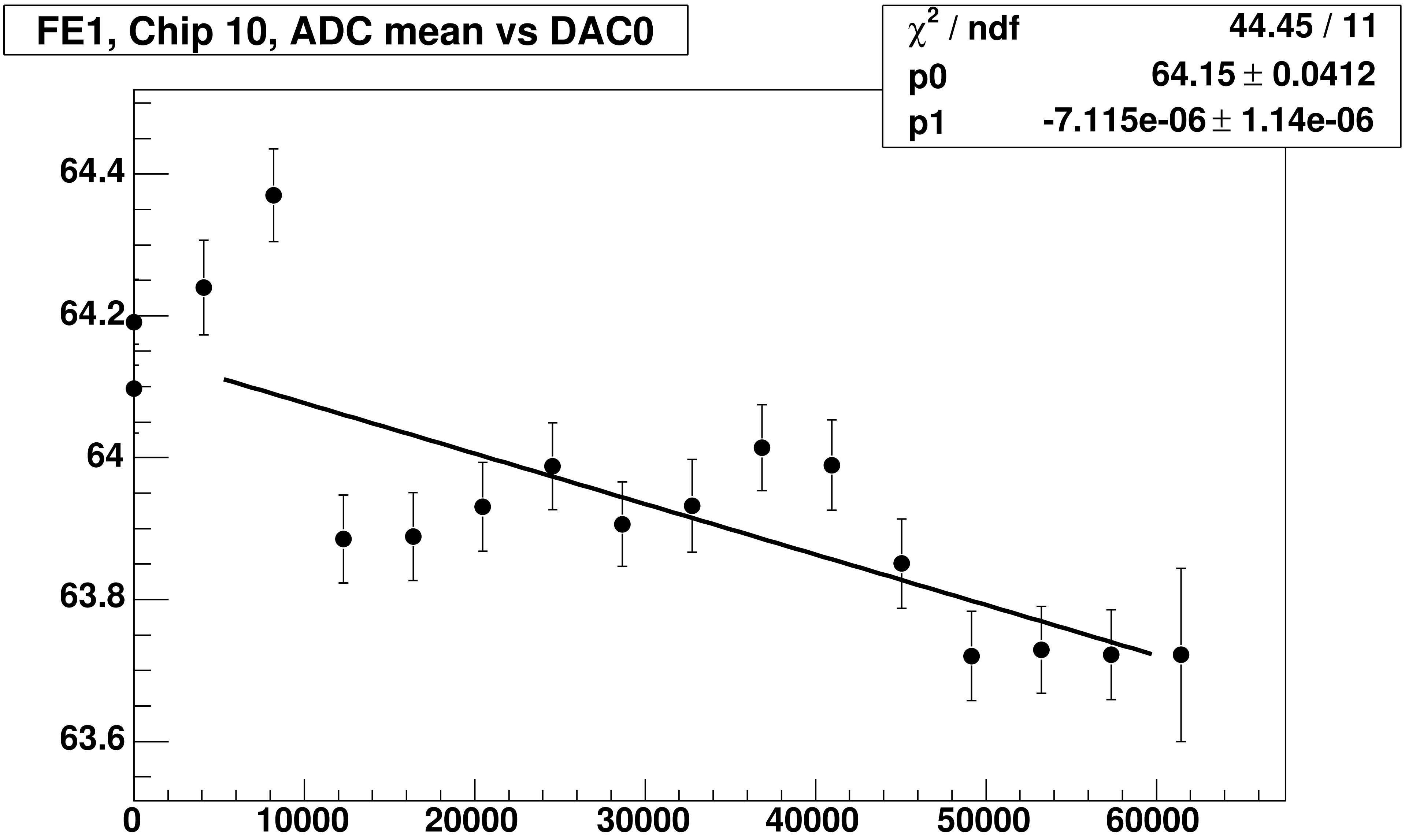


FE1, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2227 / 11
p0 66.82 ± 0.04282
p1 0.4497 ± 1.375e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

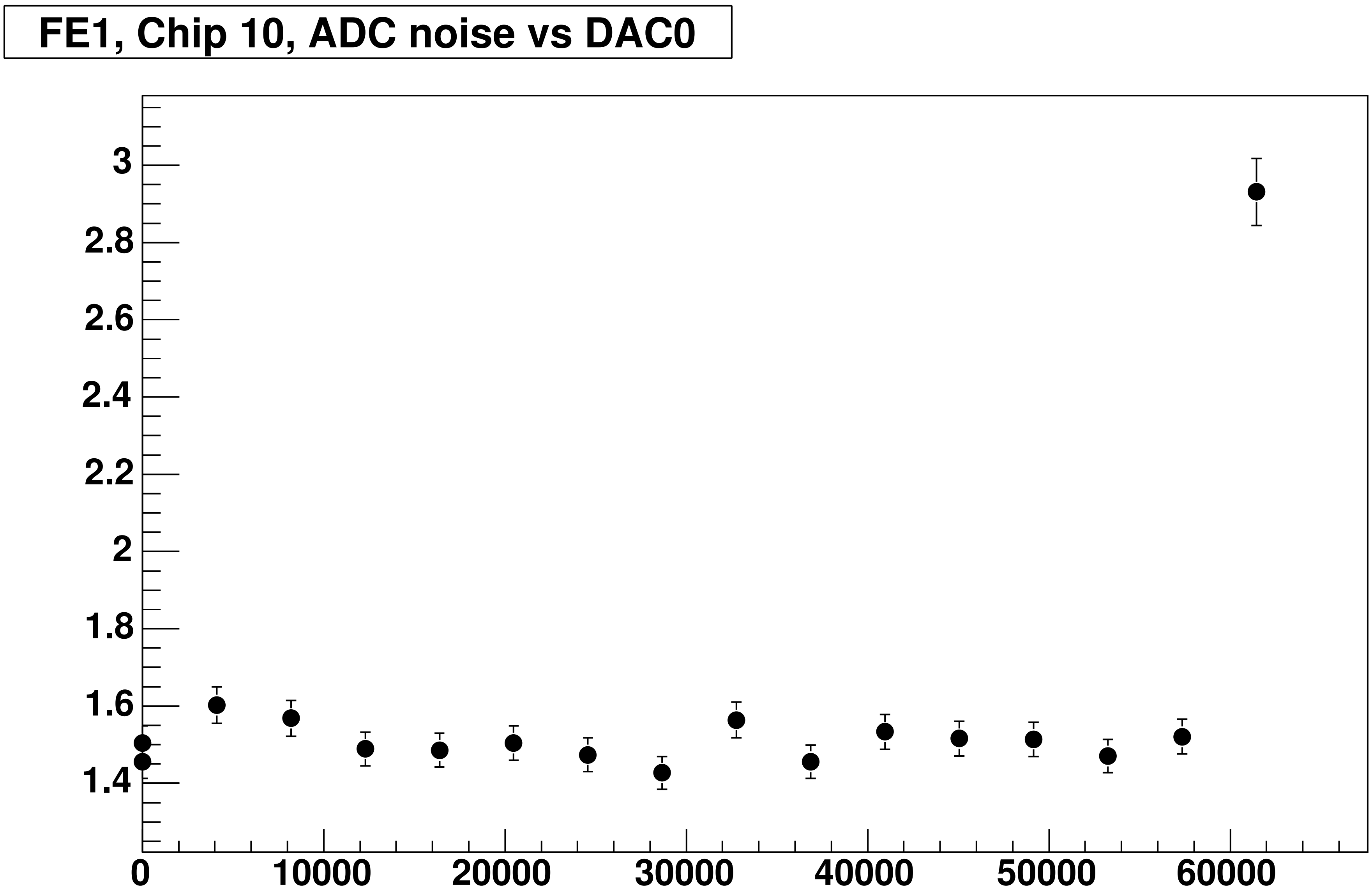


FE1, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

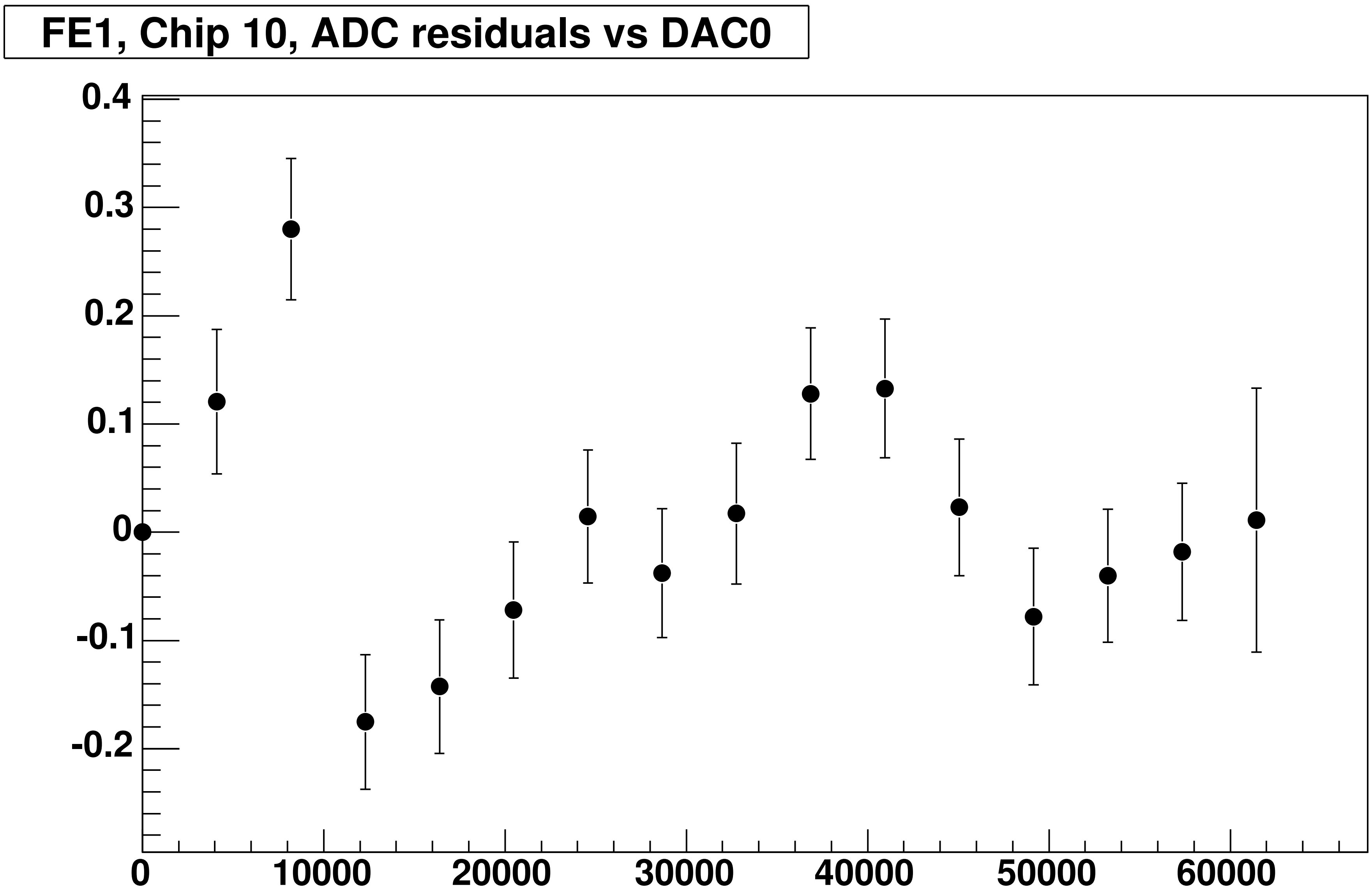

FE1, Chip 9, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000



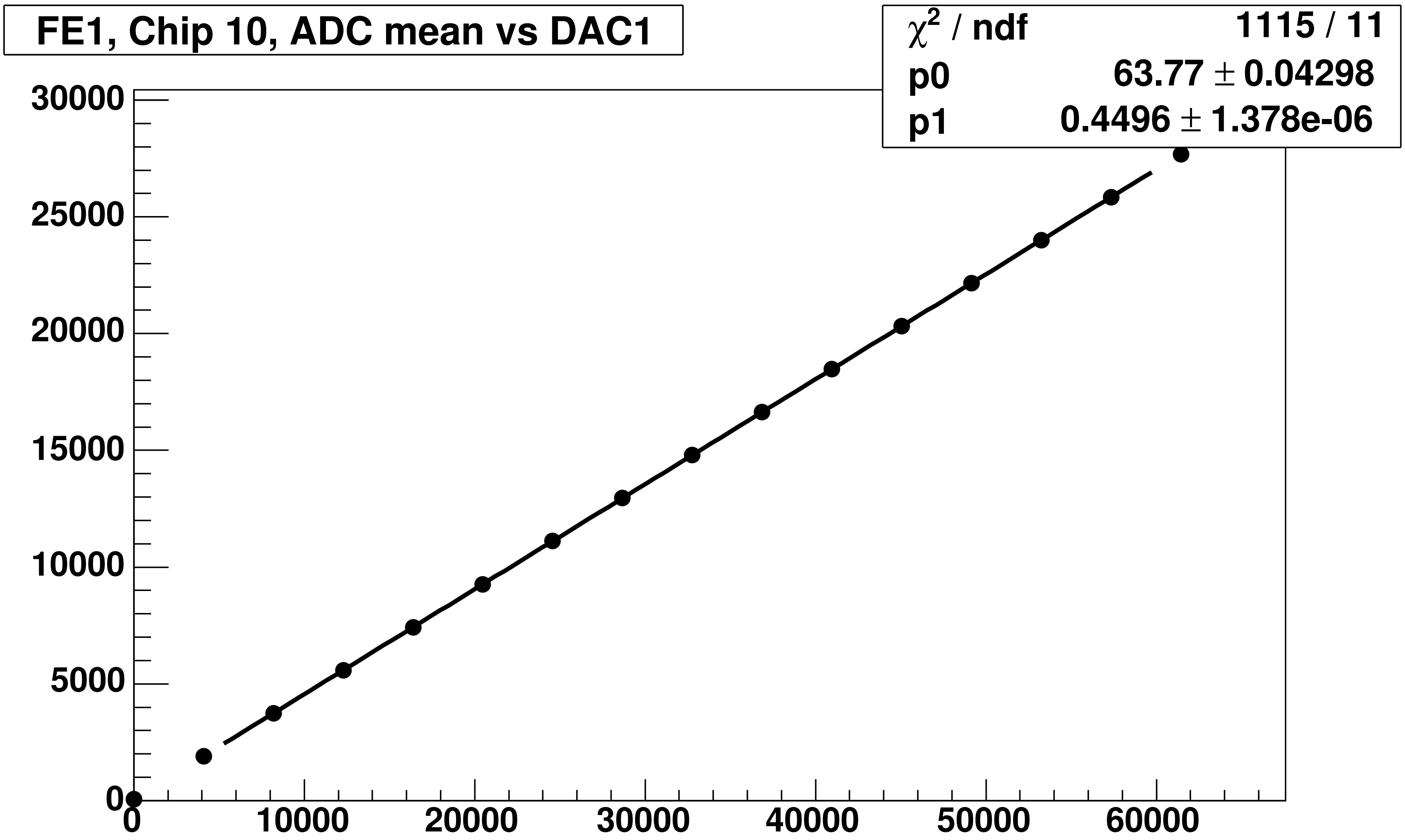
FE1, Chip 10, ADC mean vs DAC0
χ^2 / ndf 44.45 / 11
p0 64.15 ± 0.0412
p1 -7.115e-06 ± 1.14e-06
64.4
64.2
64
63.8
63.6
0
10000
20000
30000
40000
50000
60000

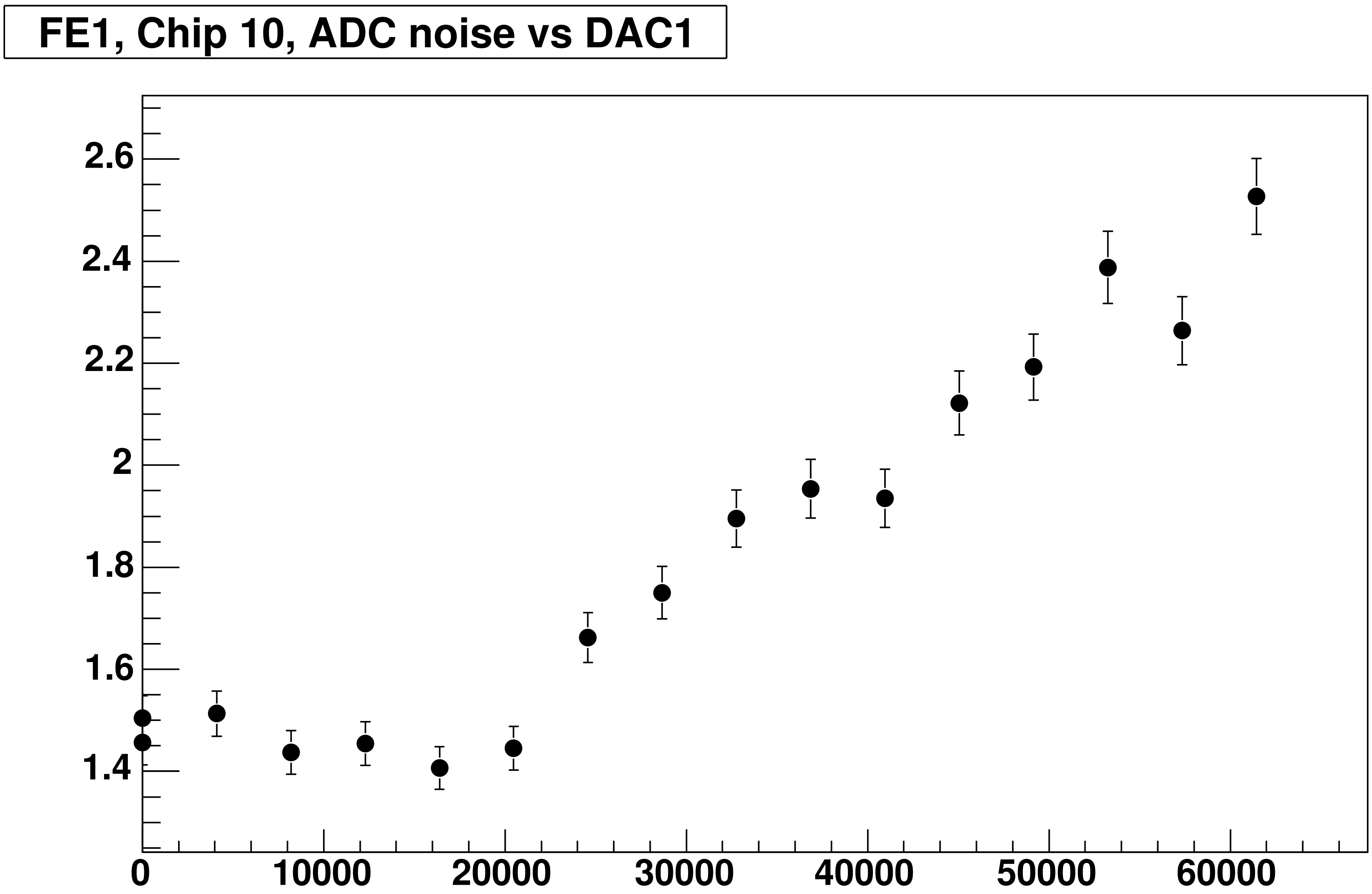


FE1, Chip 10, ADC noise vs DAC0
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

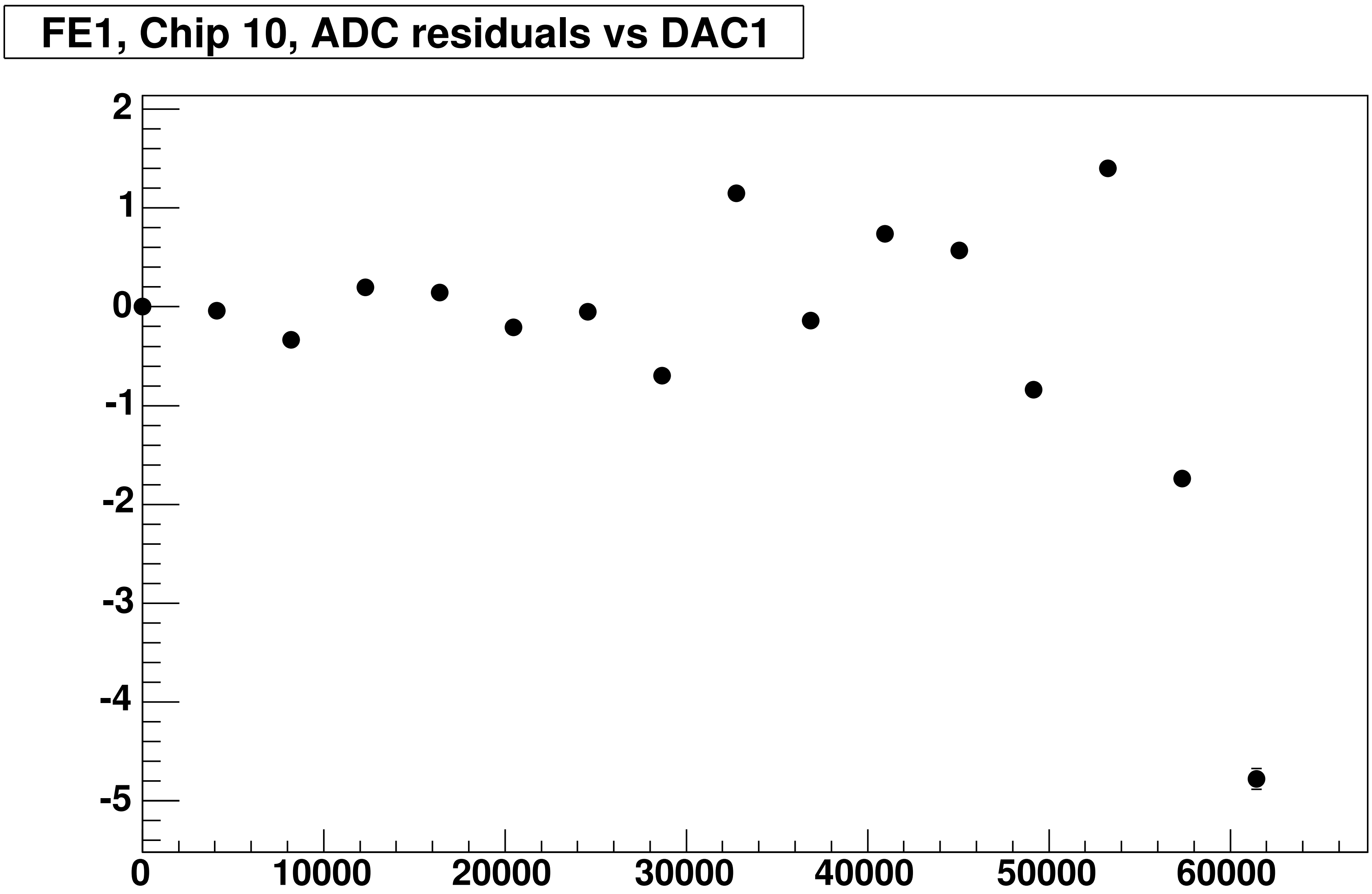


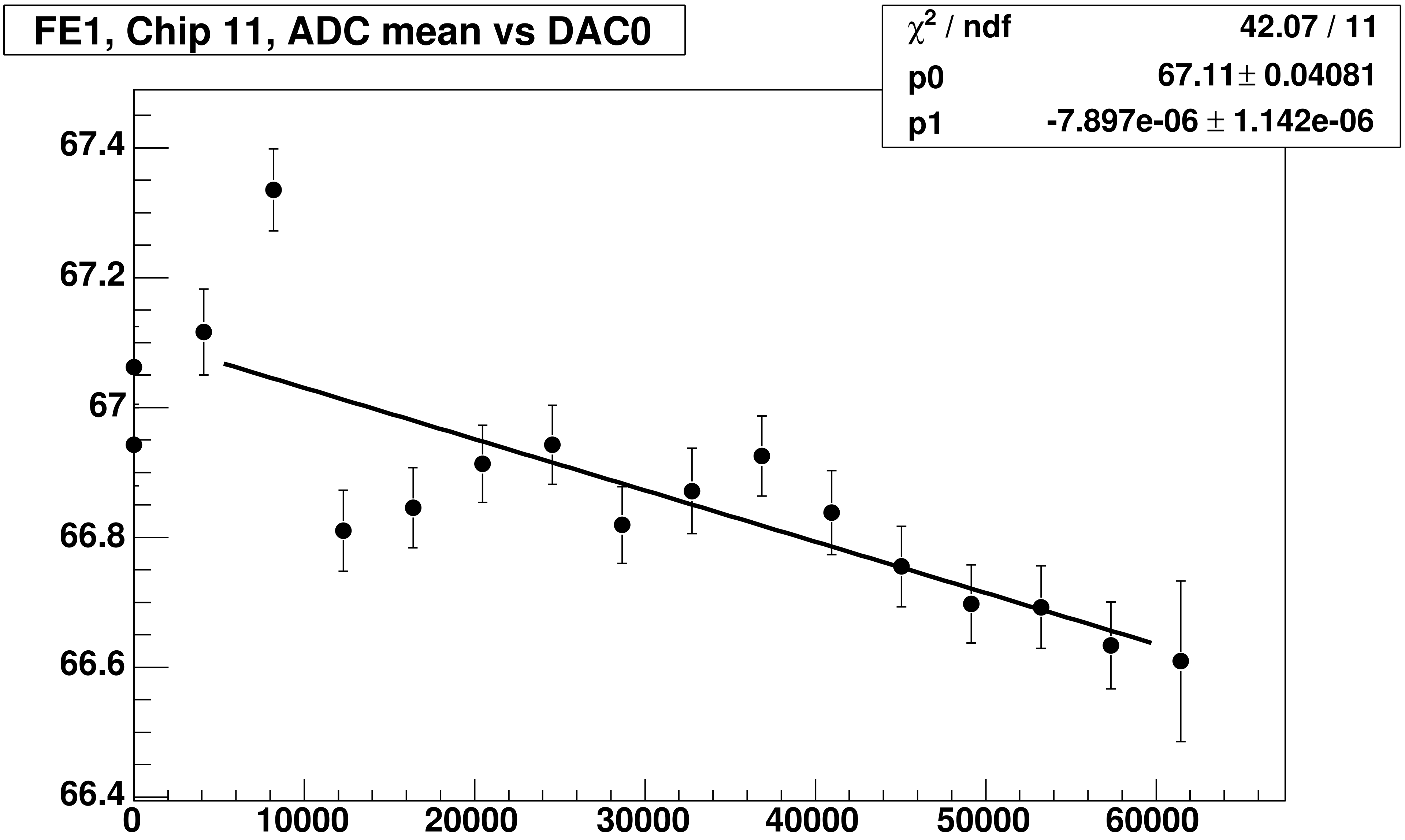
FE1, Chip 10, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

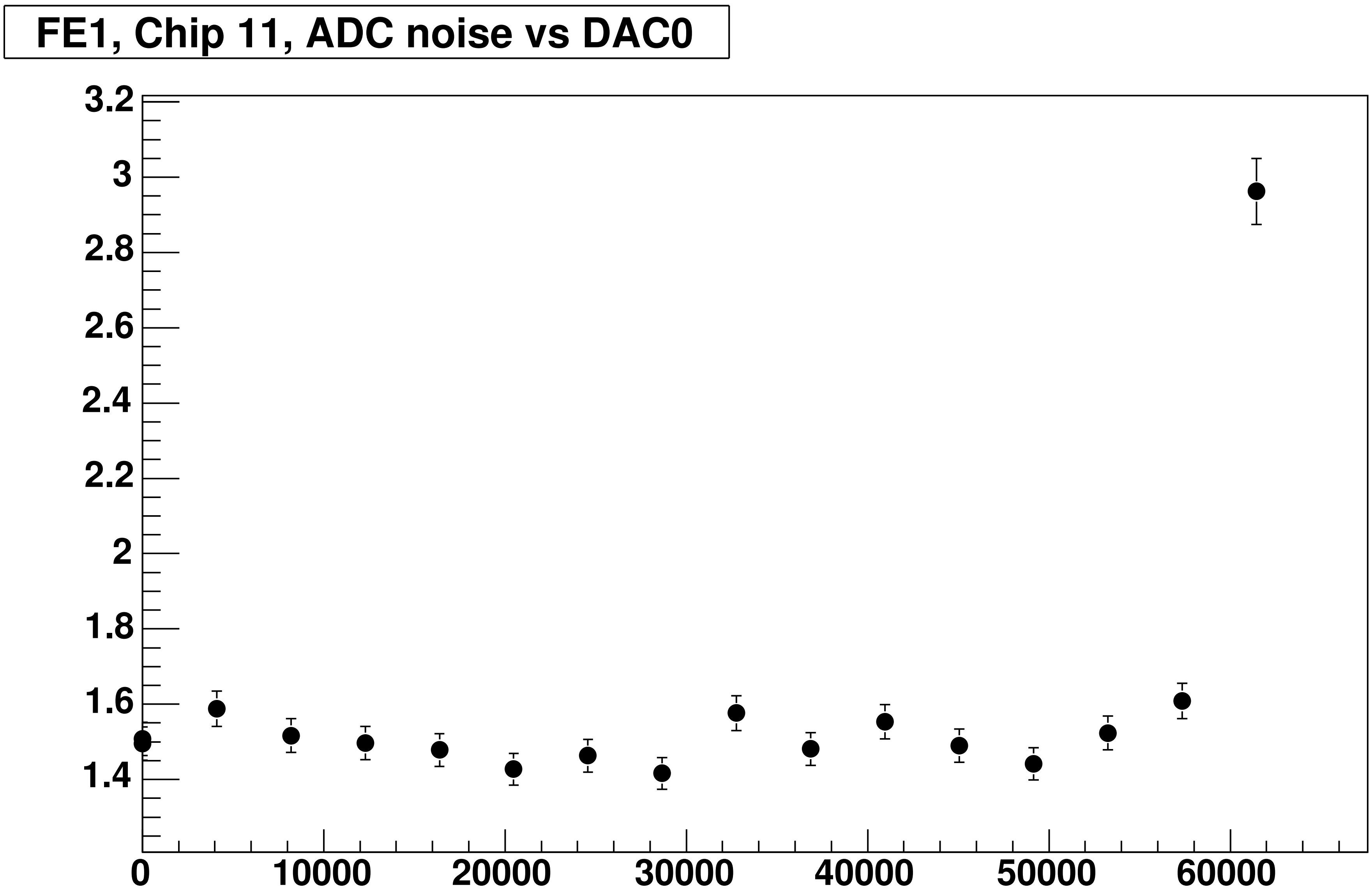

FE1, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1115 / 11
p0 63.77 ± 0.04298
p1 0.4496 ± 1.378e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

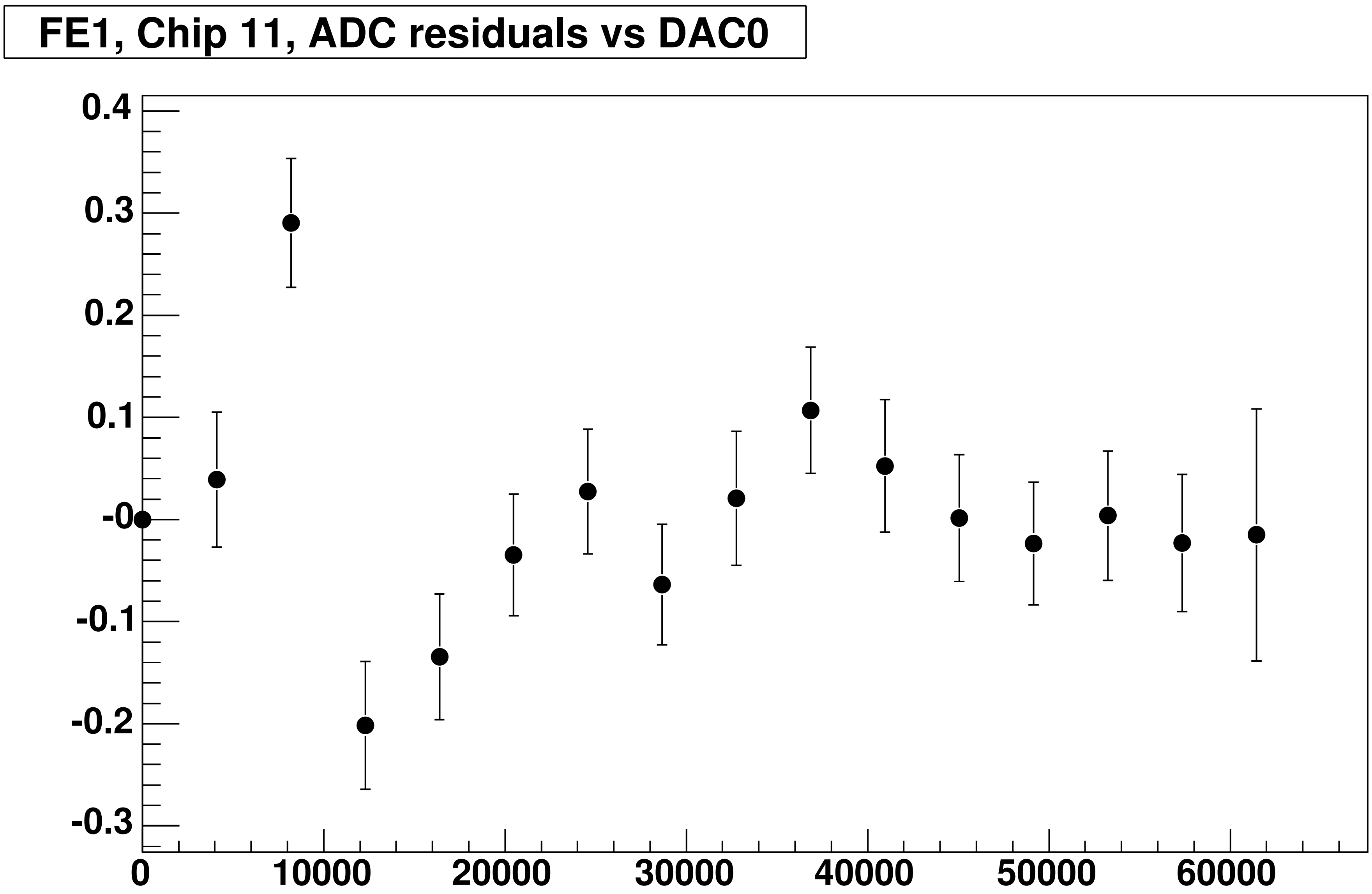


FE1, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

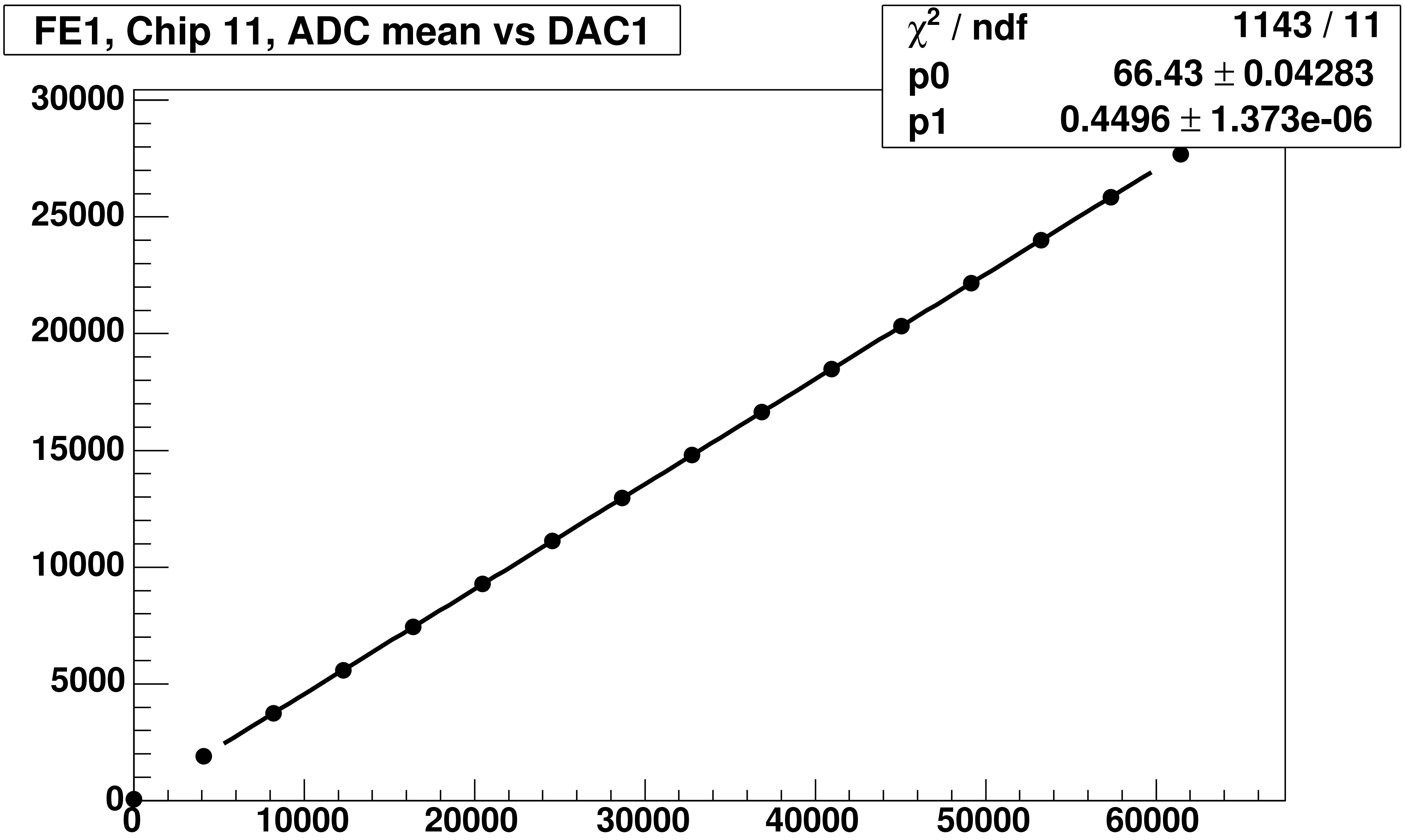

FE1, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

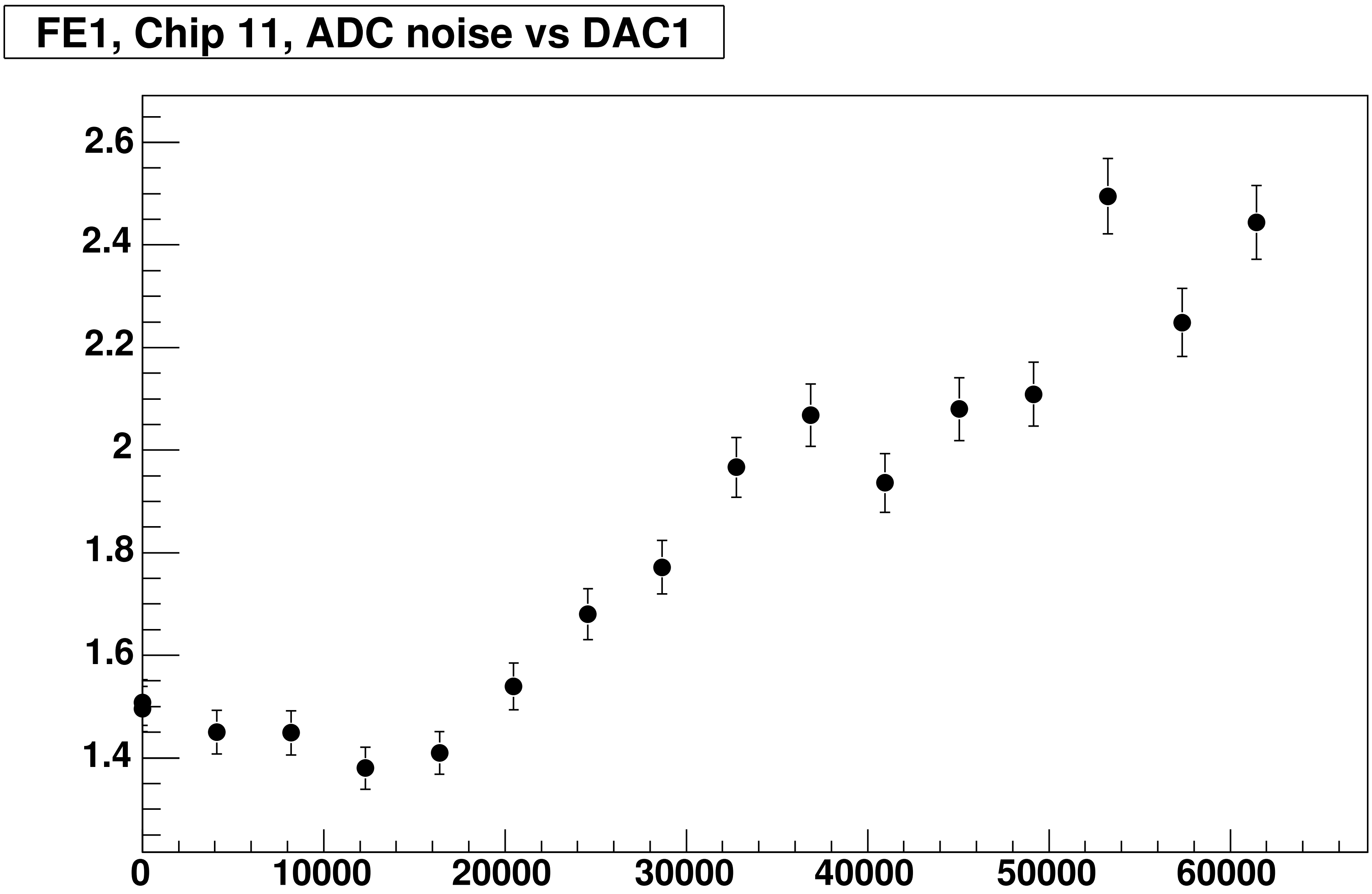

FE1, Chip 11, ADC mean vs DAC0
χ^2 / ndf 42.07 / 11
p0 67.11 ± 0.04081
p1 -7.897e-06 ± 1.142e-06
67.4
67.2
67
66.8
66.6
66.4
0
10000
20000
30000
40000
50000
60000


FE1, Chip 11, ADC noise vs DAC0
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

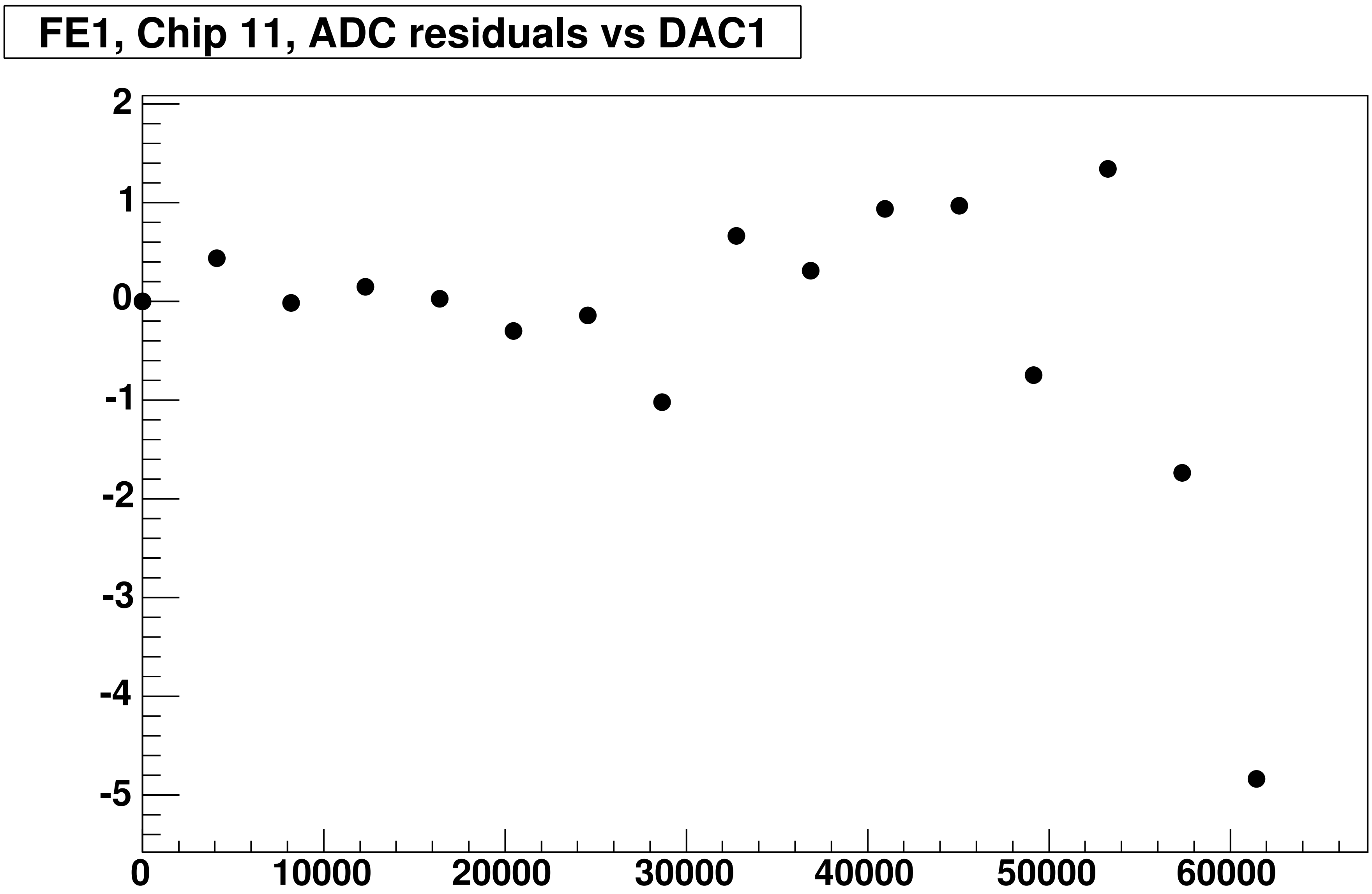


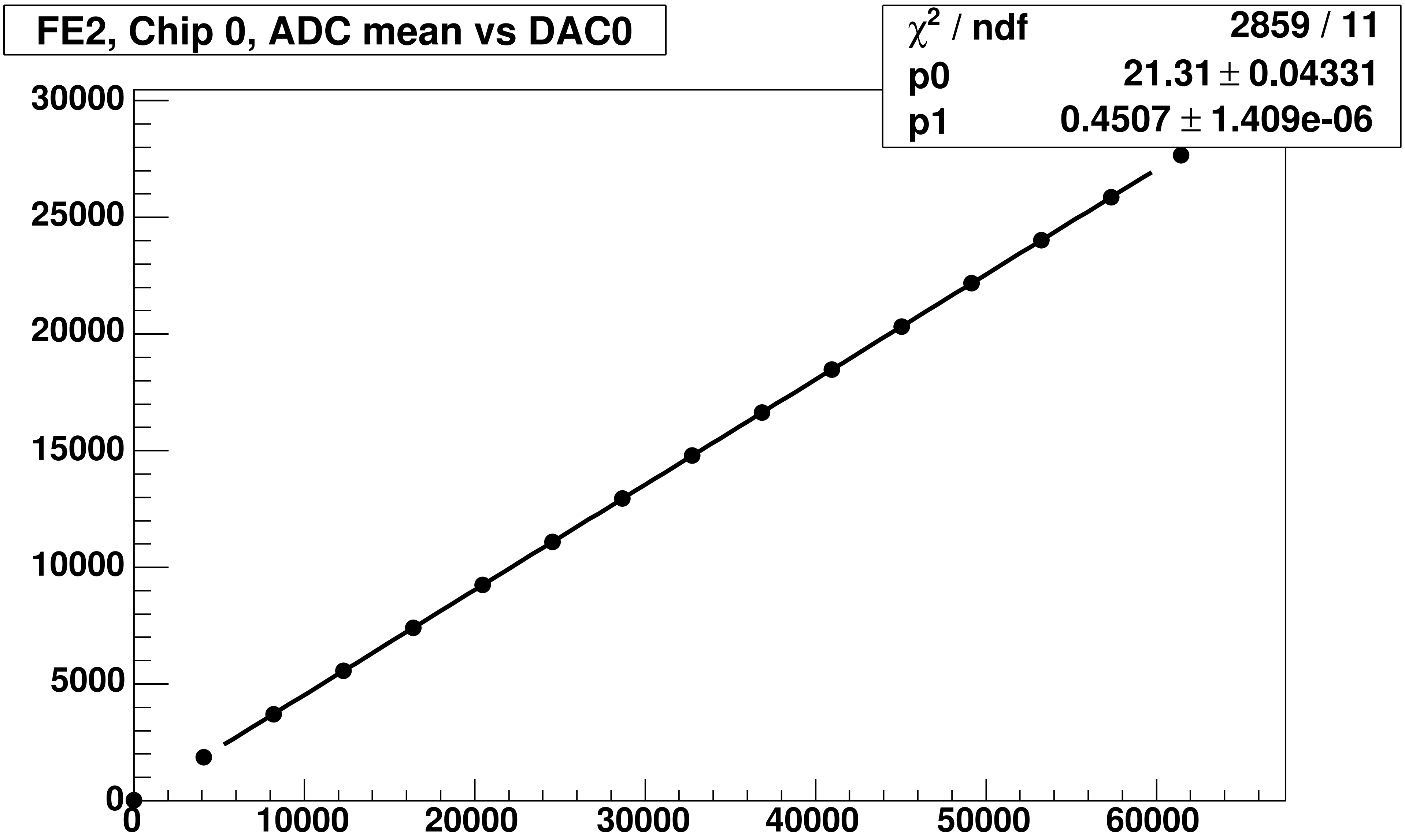
FE1, Chip 11, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE1, Chip 11, ADC mean vs DAC1
χ2 / ndf 1143 / 11
p0 66.43 ± 0.04283
p1 0.4496 ± 1.373e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

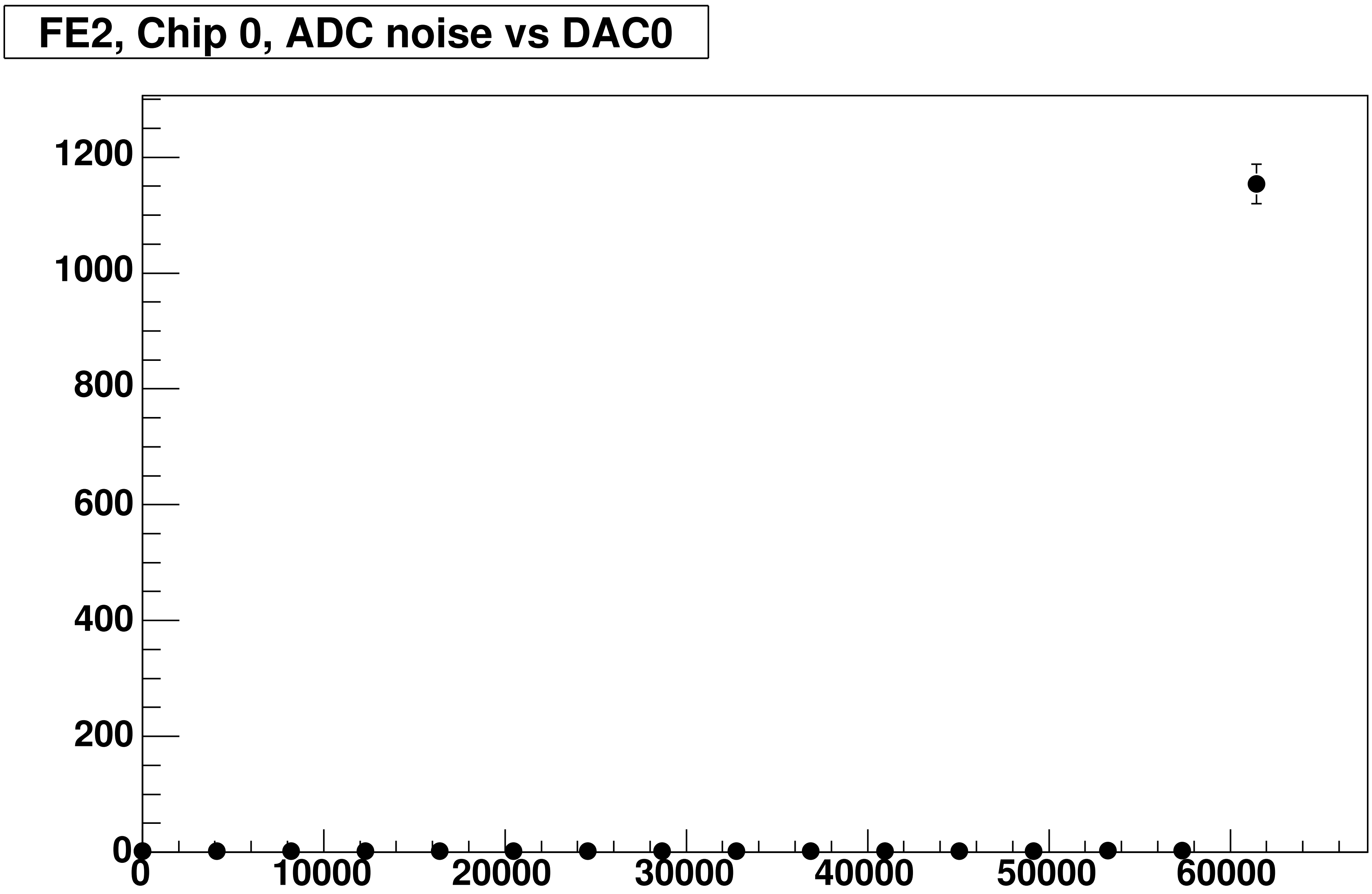


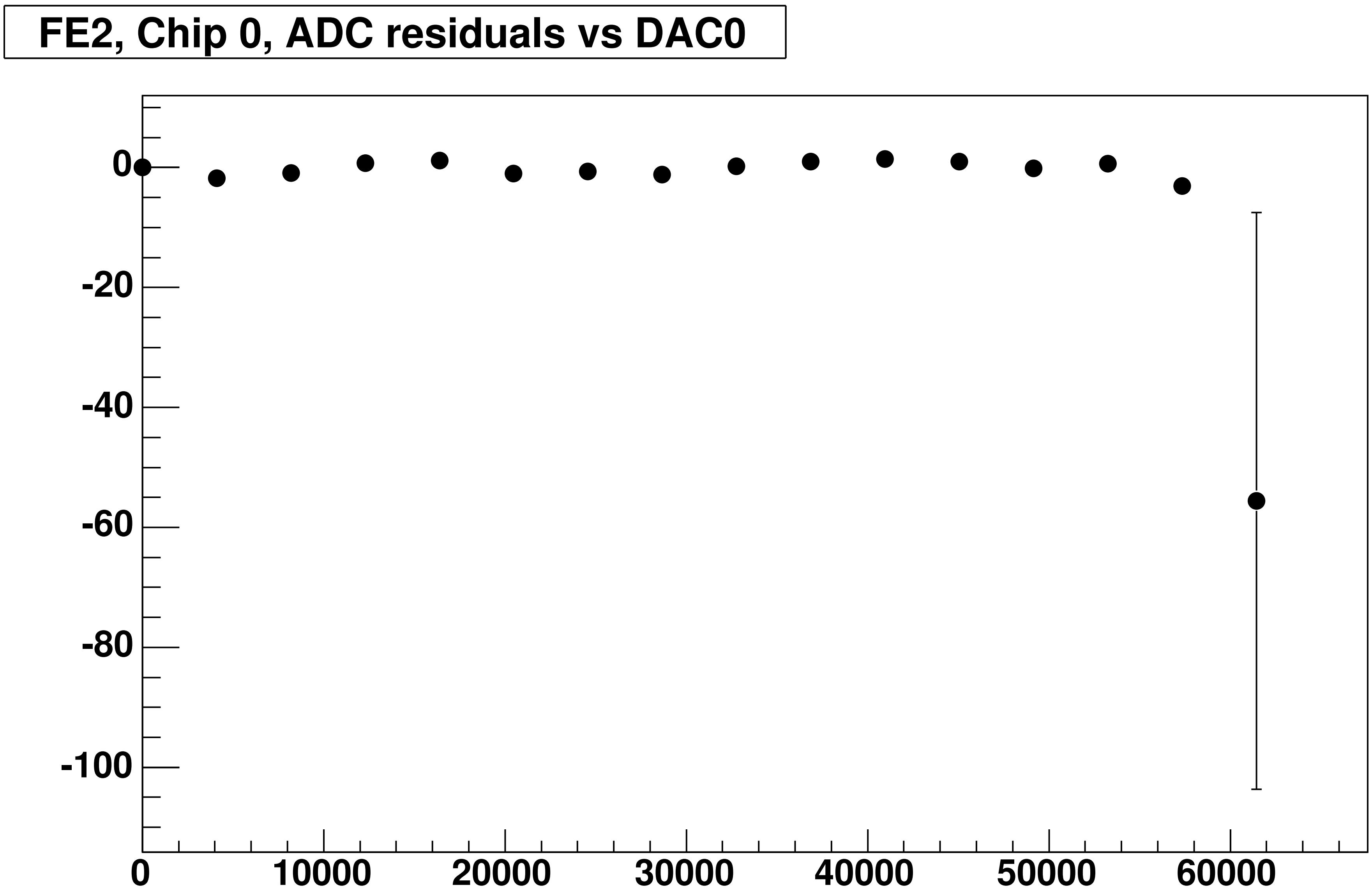
FE1, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

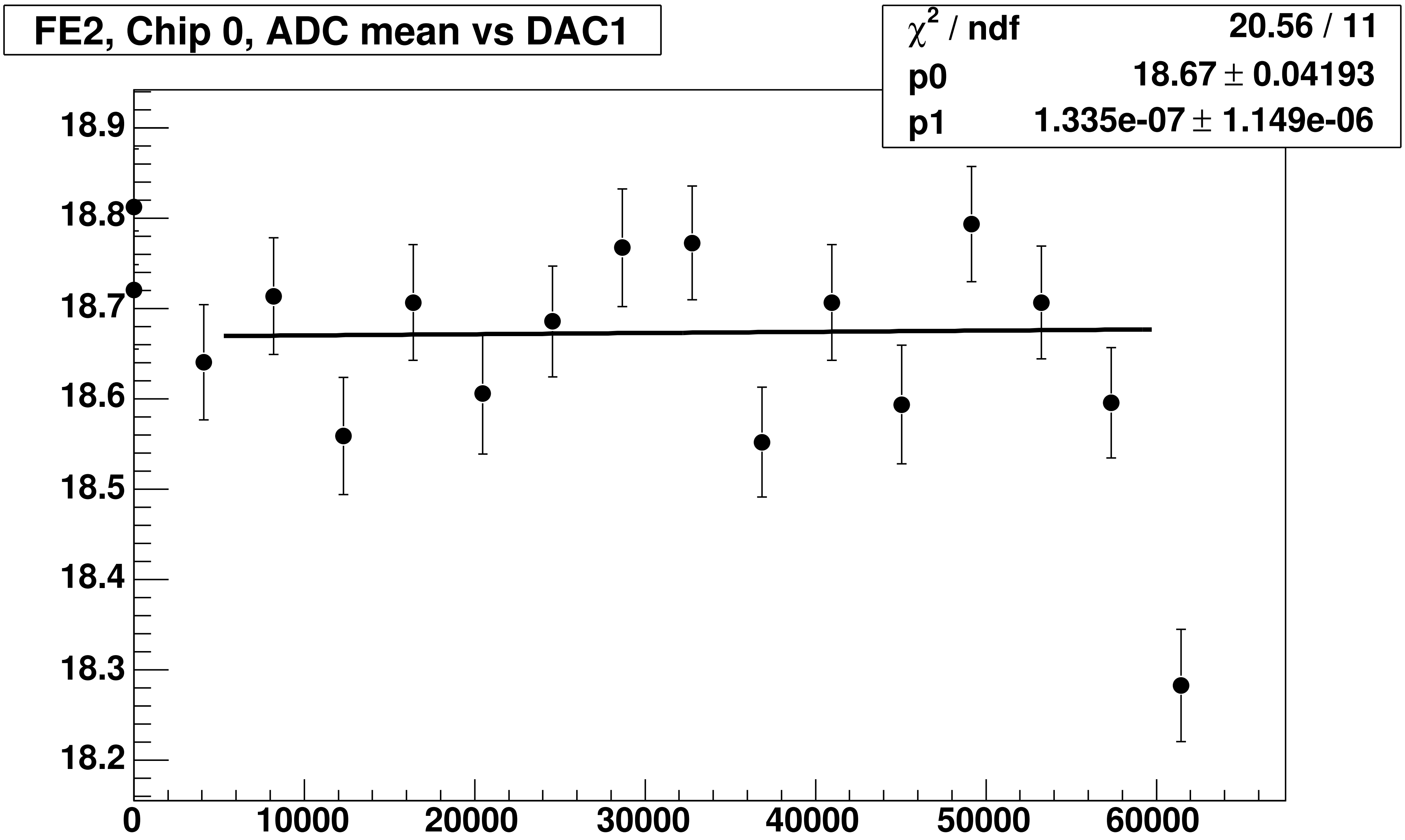

FE1, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

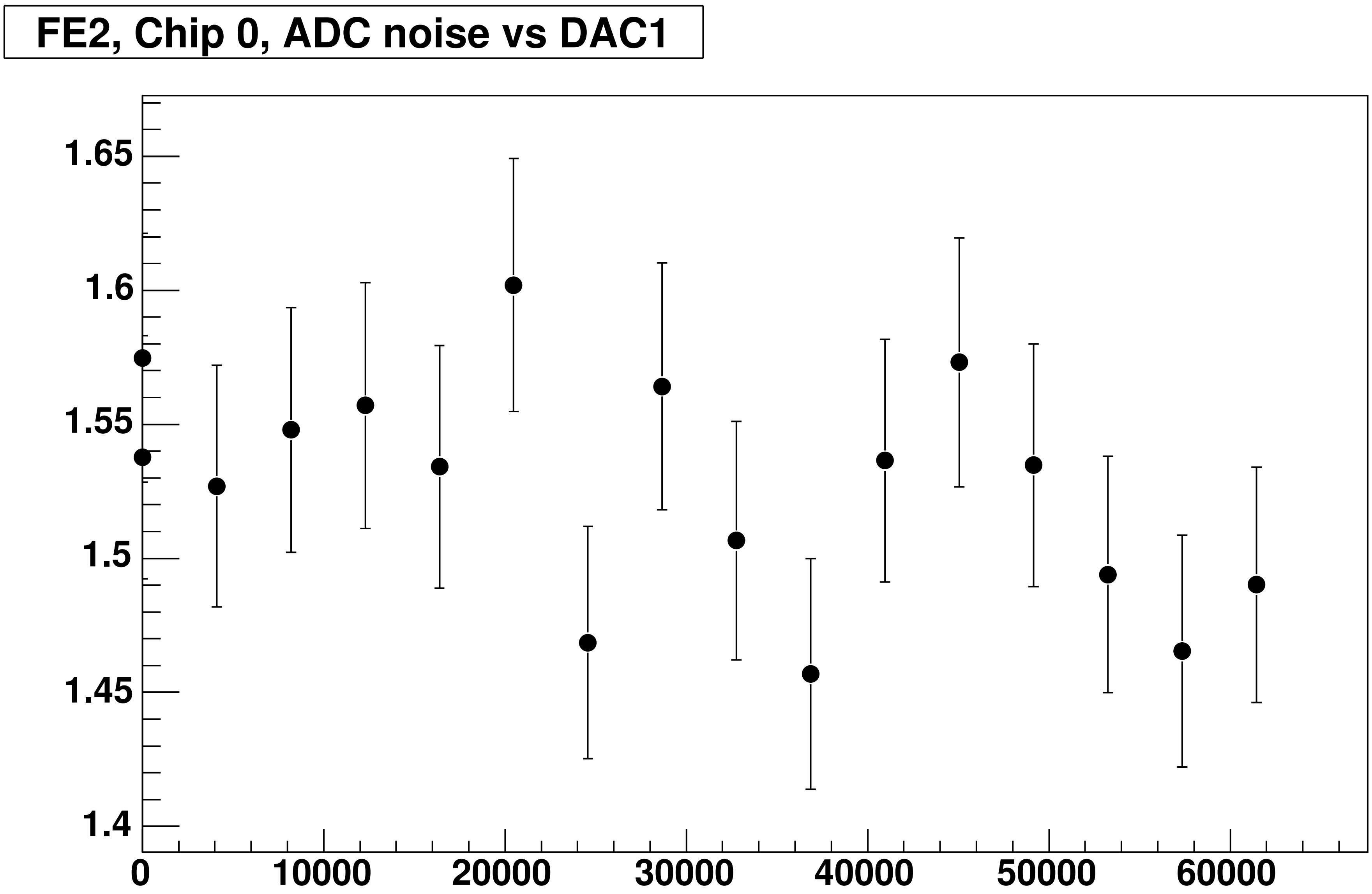


FE2, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2859 / 11
p0 21.31 ± 0.04331
p1 0.4507 ± 1.409e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

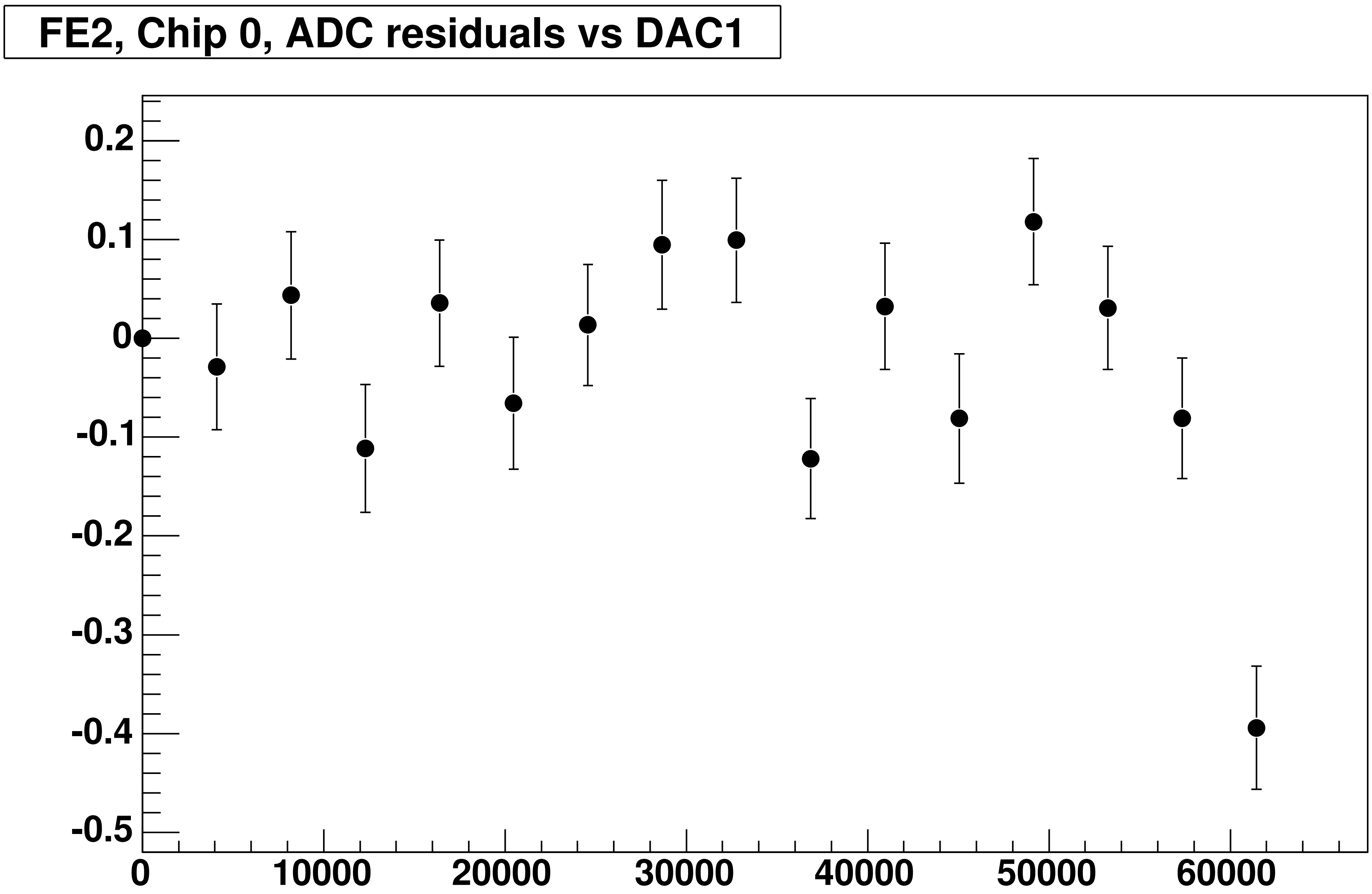

FE2, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

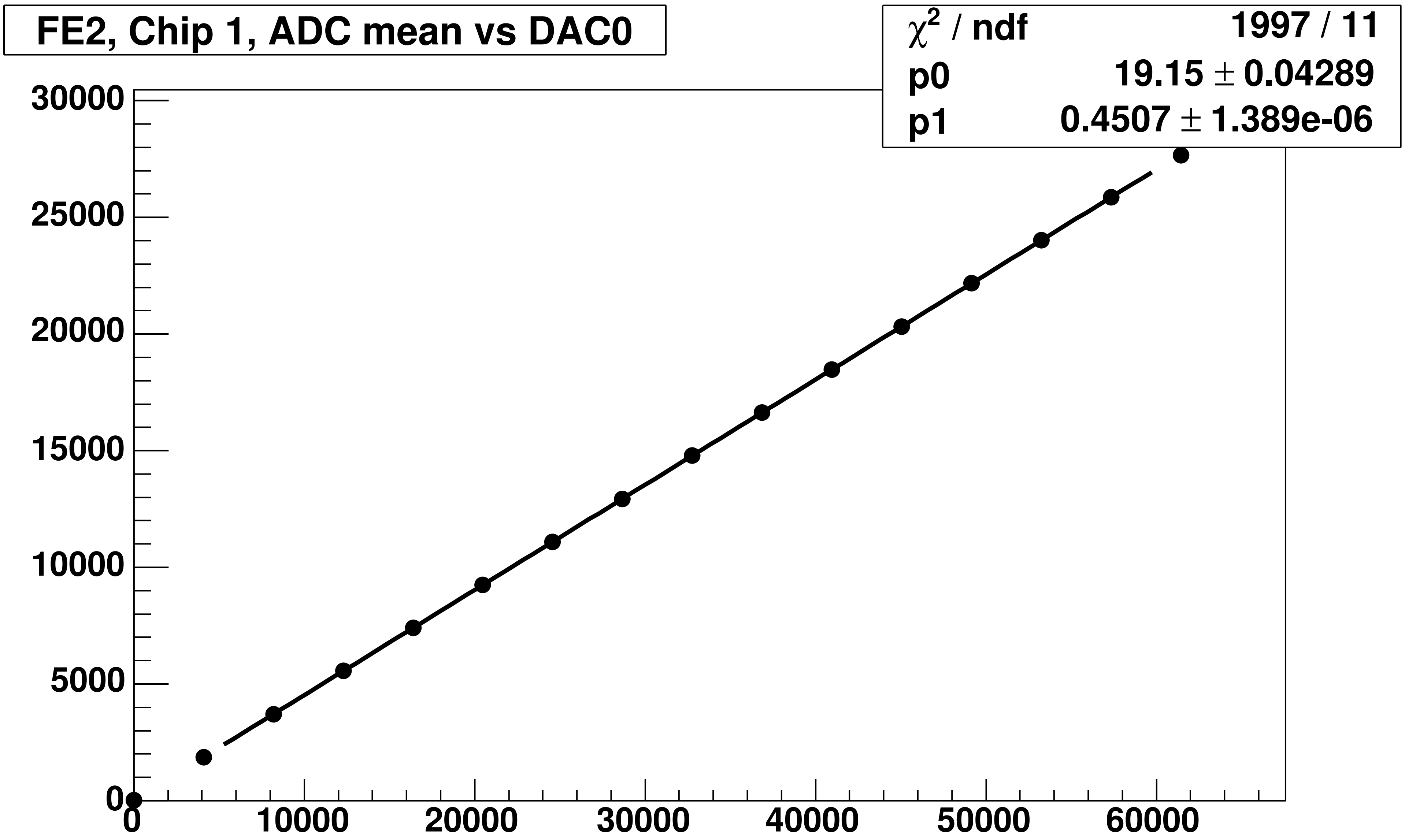

FE2, Chip 0, ADC mean vs DAC1
χ^2 / ndf 20.56 / 11
p0 18.67 ± 0.04193
p1 1.335e-07 ± 1.149e-06
18.9
18.8
18.7
18.6
18.5
18.4
18.3
18.2
0
10000
20000
30000
40000
50000
60000



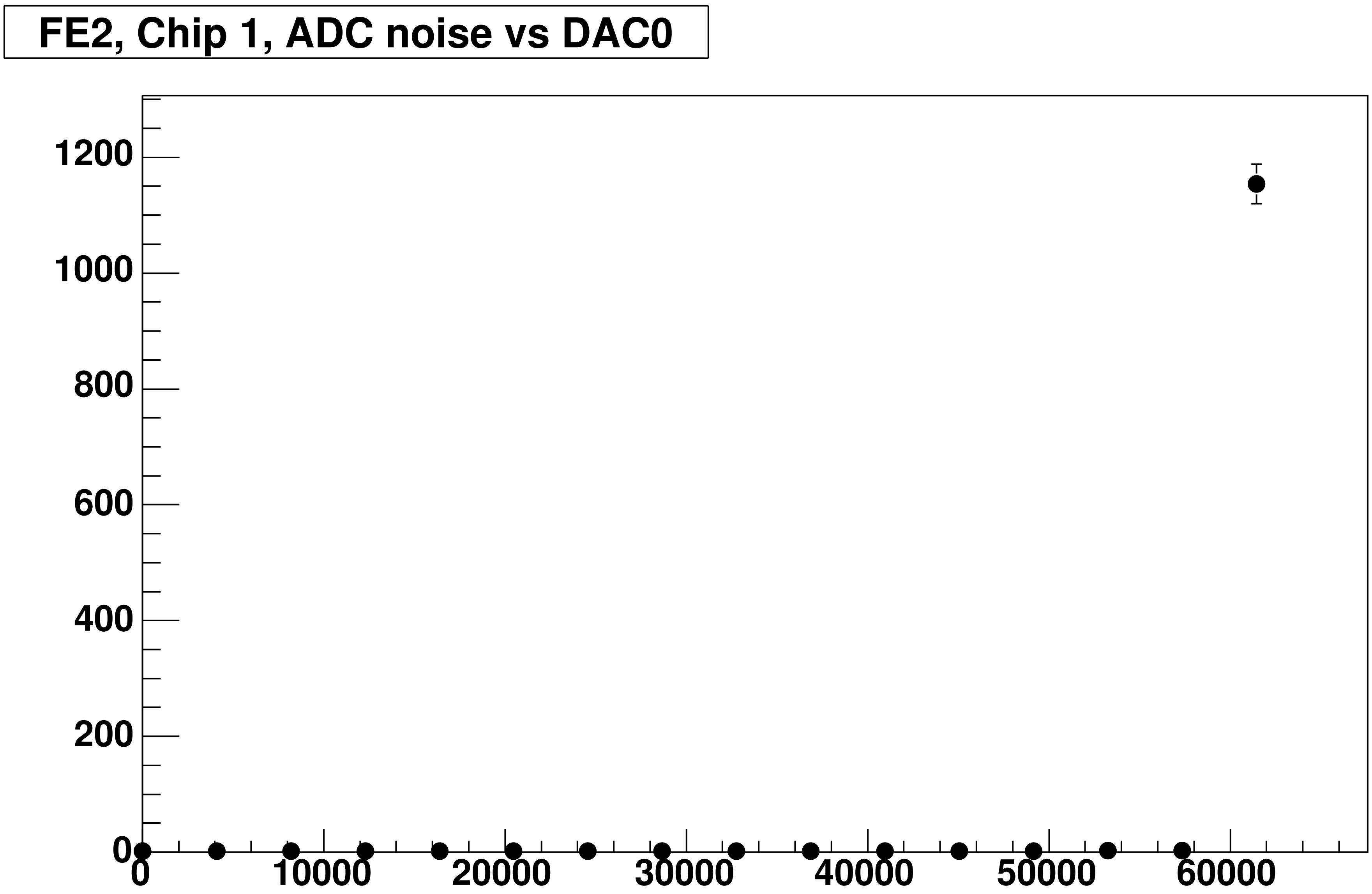
FE2, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000



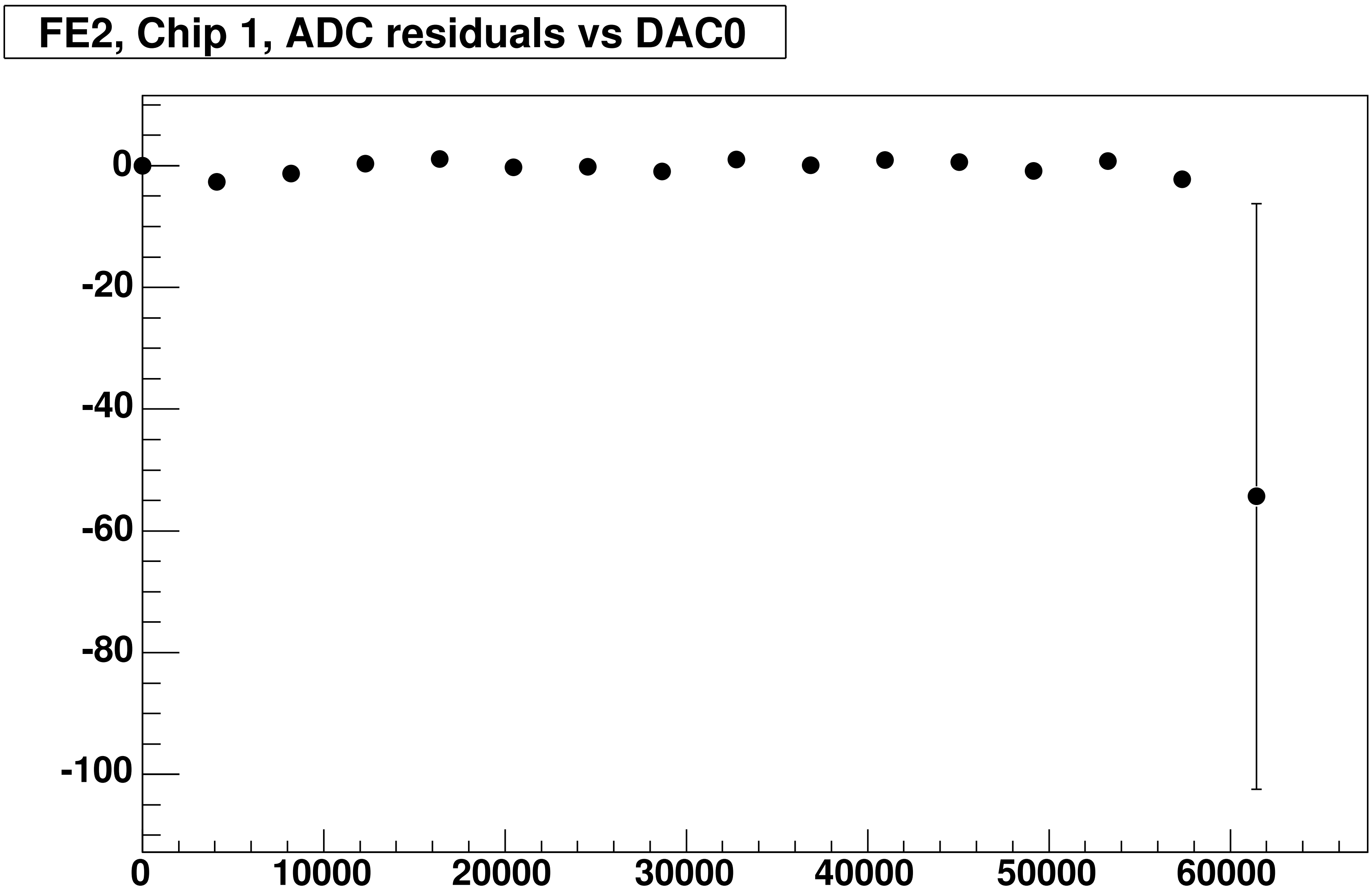
FE2, Chip 0, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

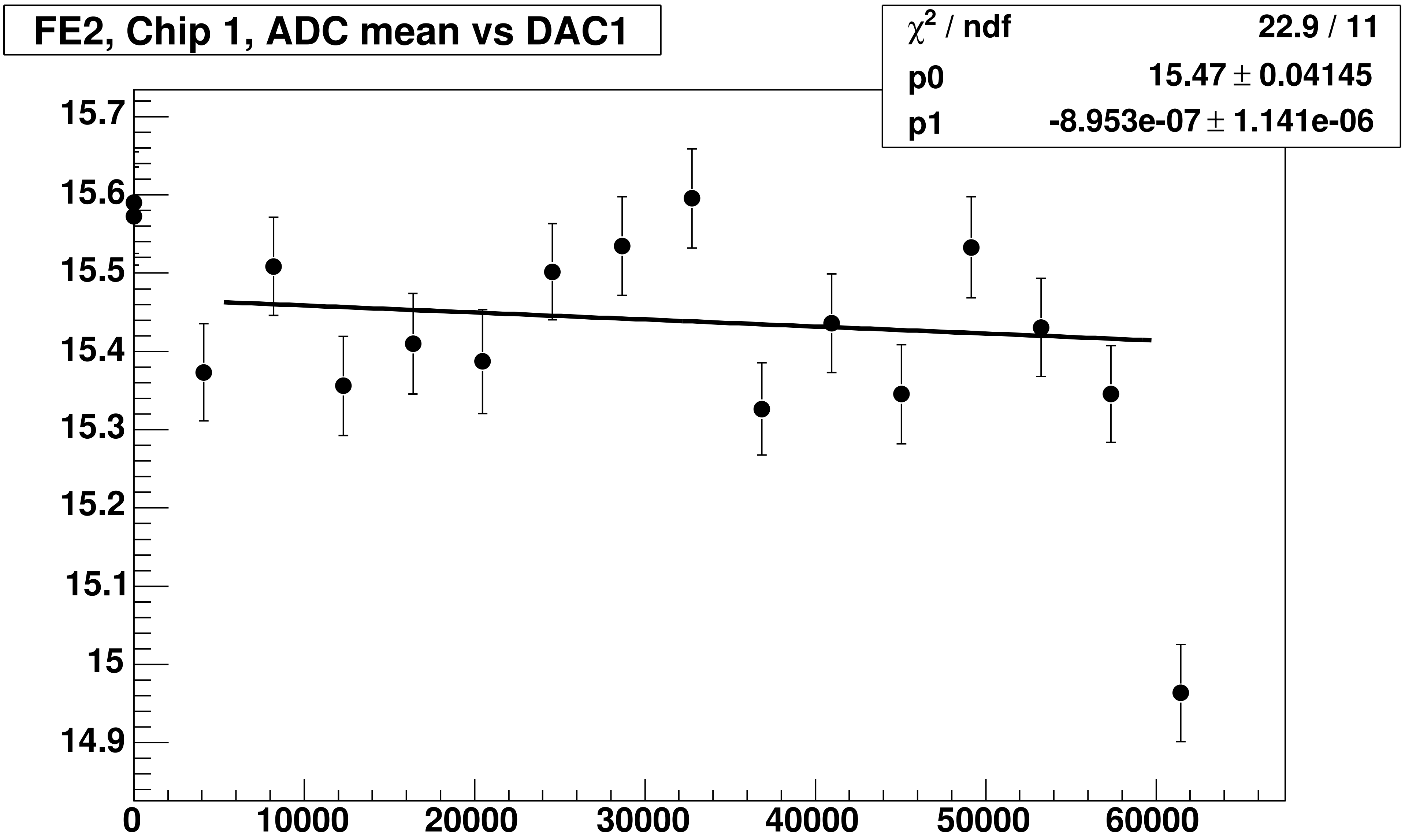


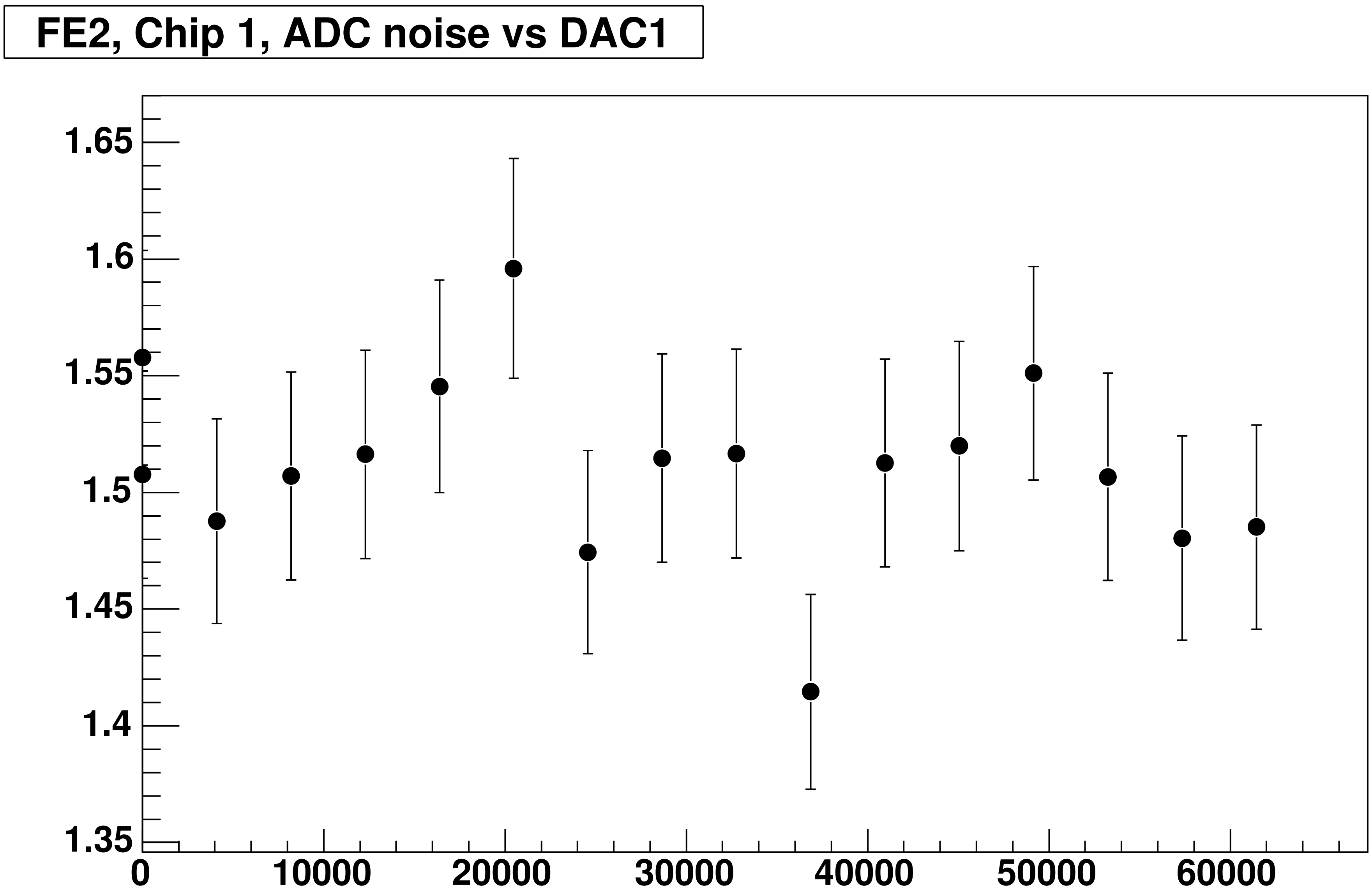
FE2, Chip 1, ADC mean vs DAC0
χ² / ndf 1997 / 11
p0 19.15 ± 0.04289
p1 0.4507 ± 1.389e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000



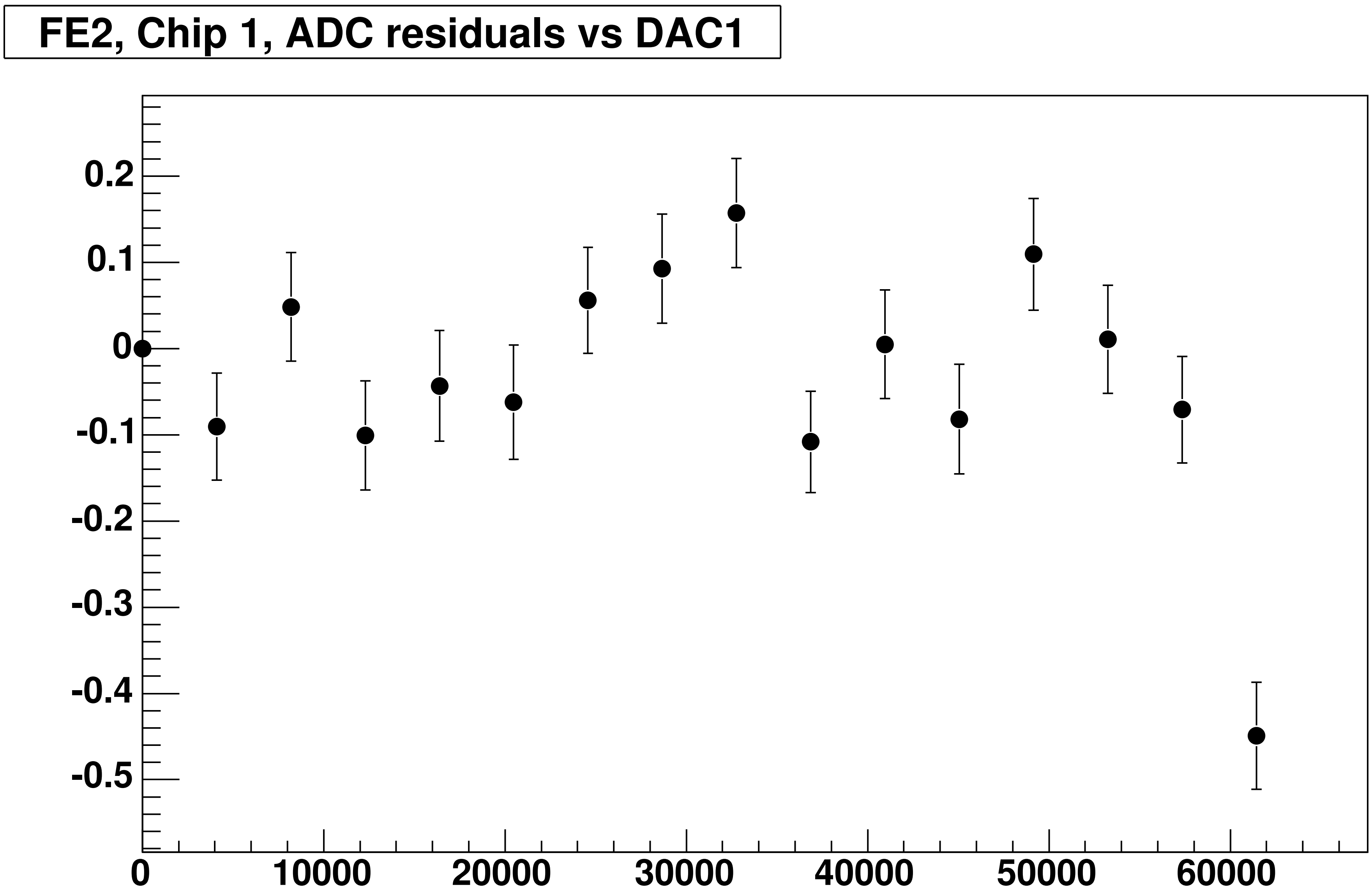
FE2, Chip 1, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000


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

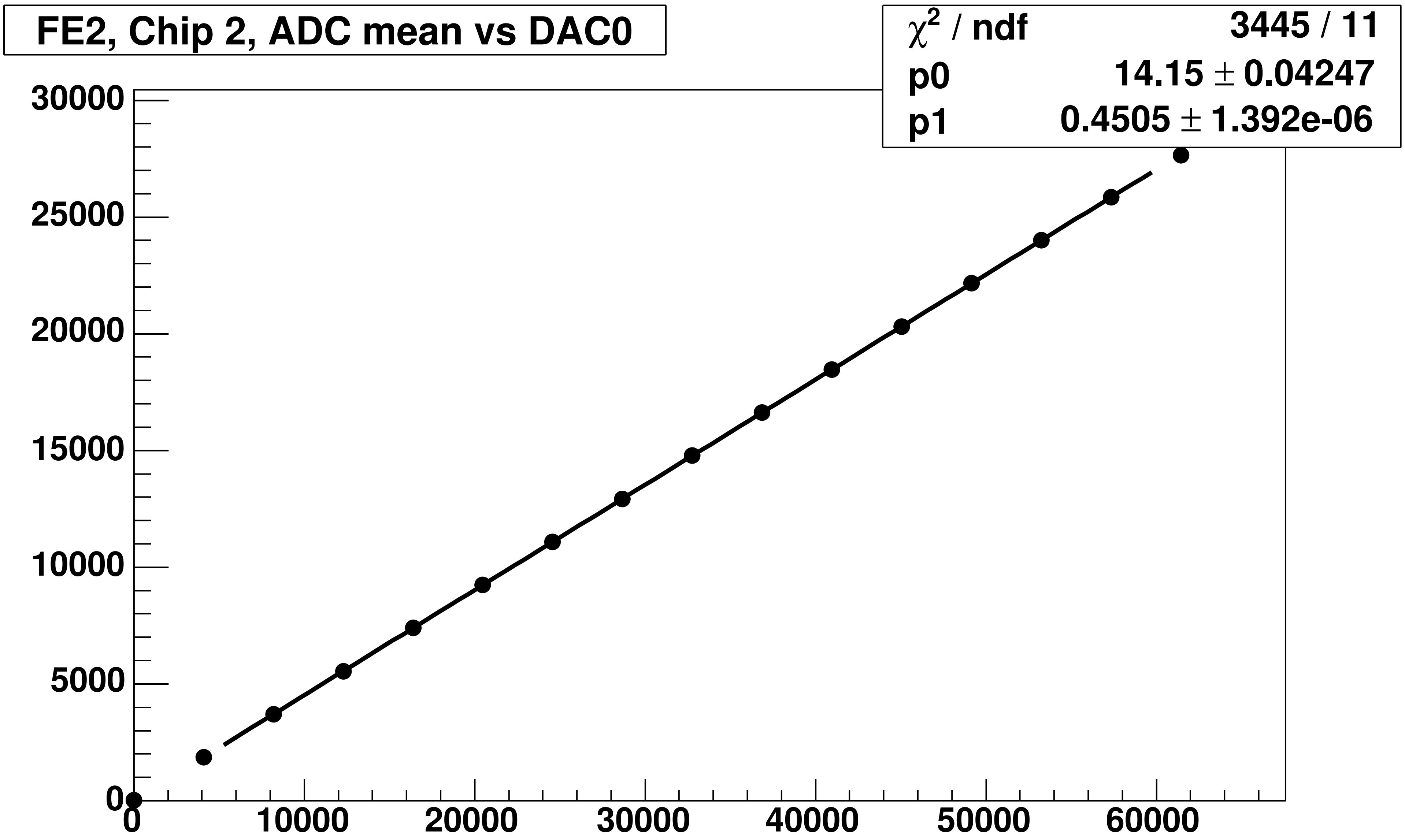

FE2, Chip 1, ADC mean vs DAC1
χ^2 / ndf 22.9 / 11
p0 15.47 ± 0.04145
p1 -8.953e-07 ± 1.141e-06
15.7
15.6
15.5
15.4
15.3
15.2
15.1
15
14.9
0
10000
20000
30000
40000
50000
60000

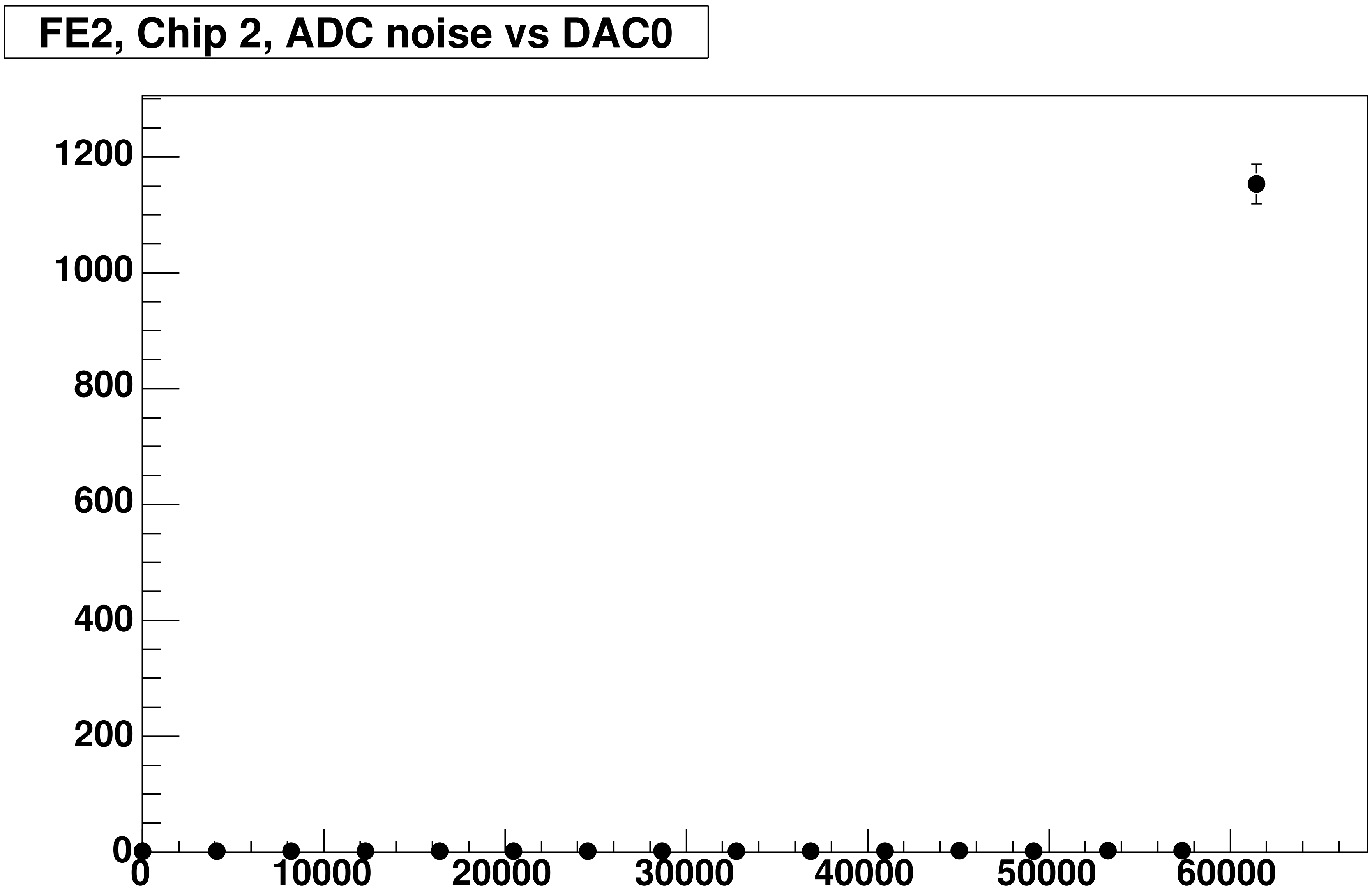


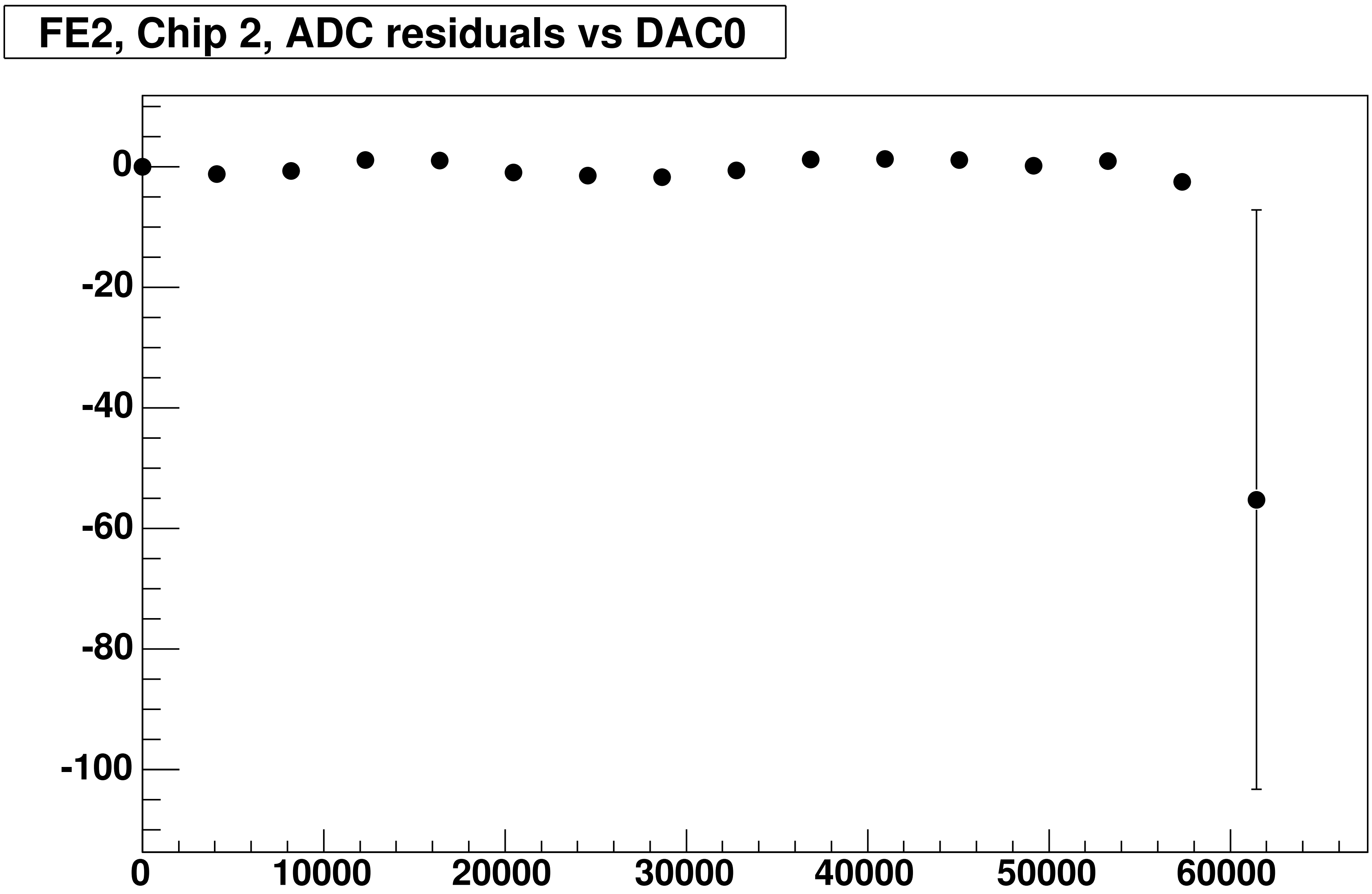
FE2, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



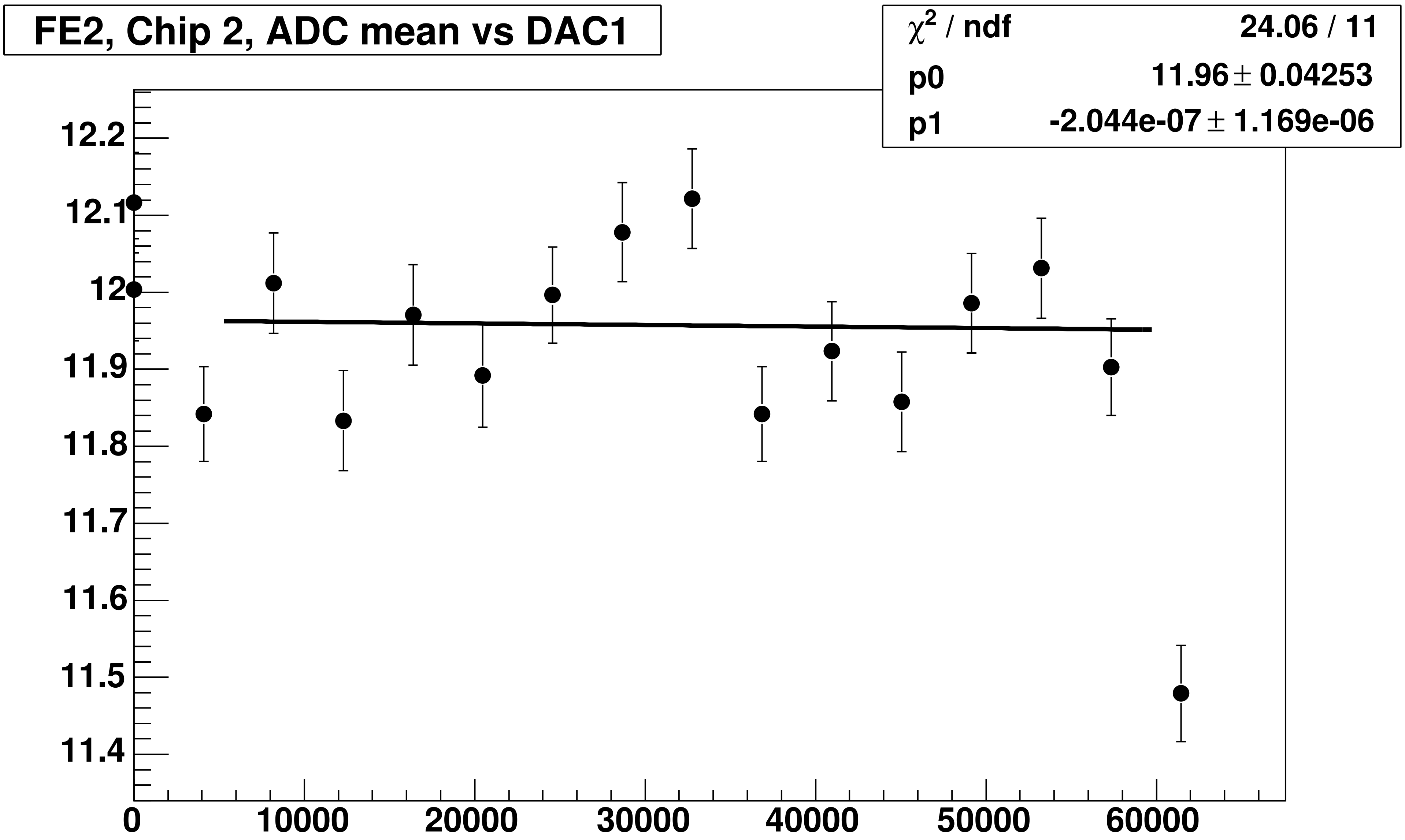
FE2, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

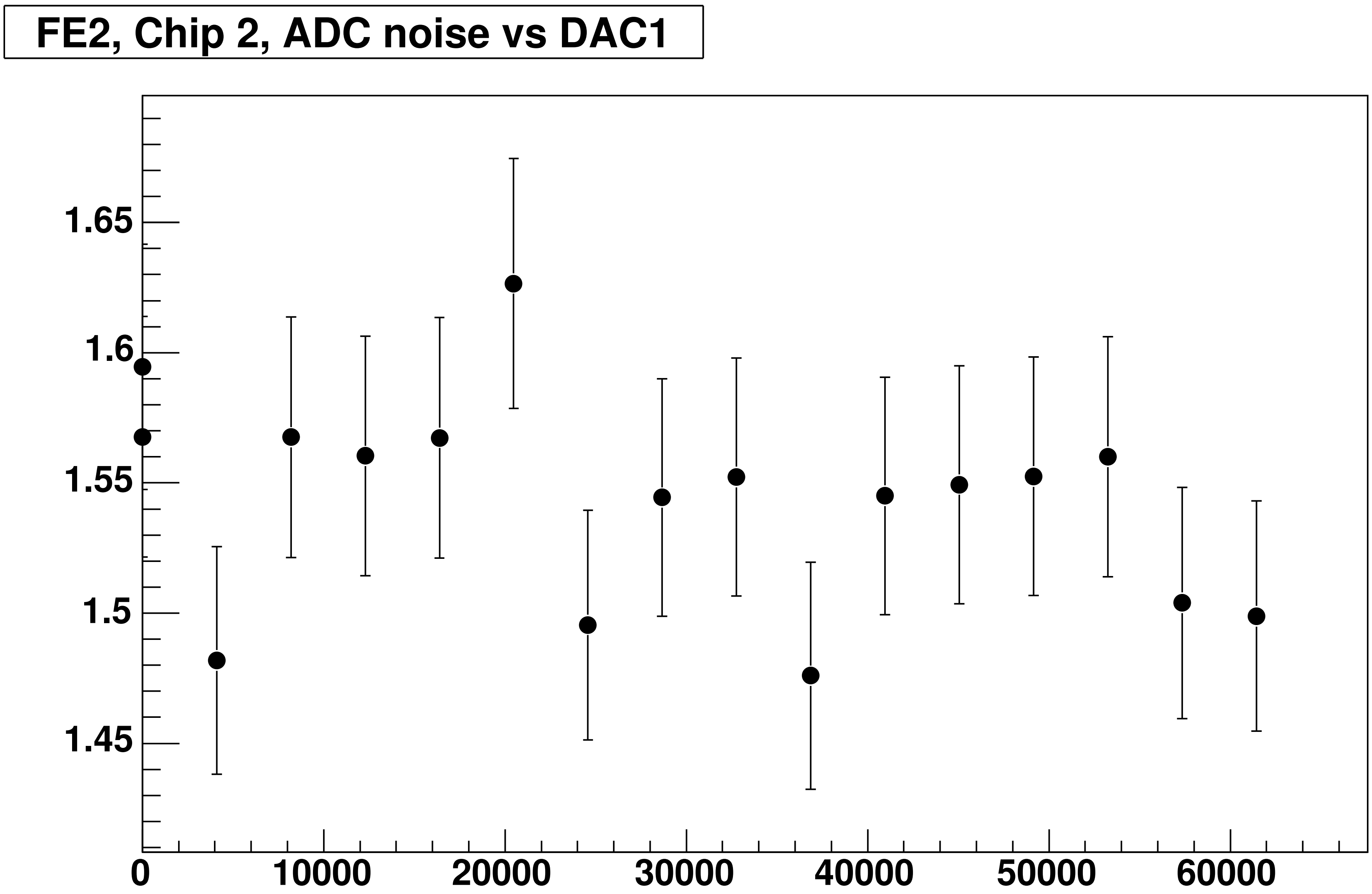

FE2, Chip 2, ADC mean vs DAC0
χ2 / ndf 3445 / 11
p0 14.15 ± 0.04247
p1 0.4505 ± 1.392e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

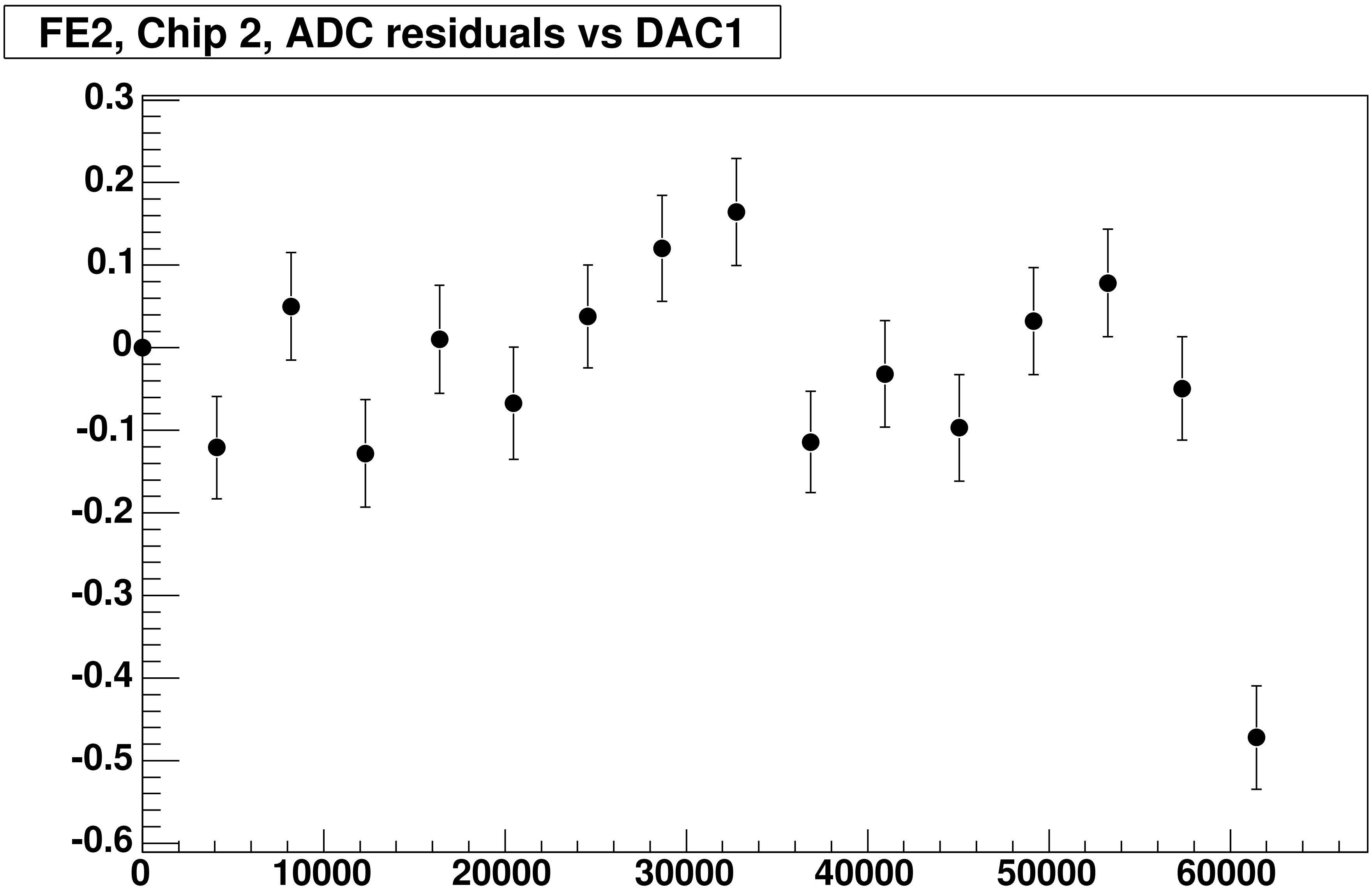

FE2, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

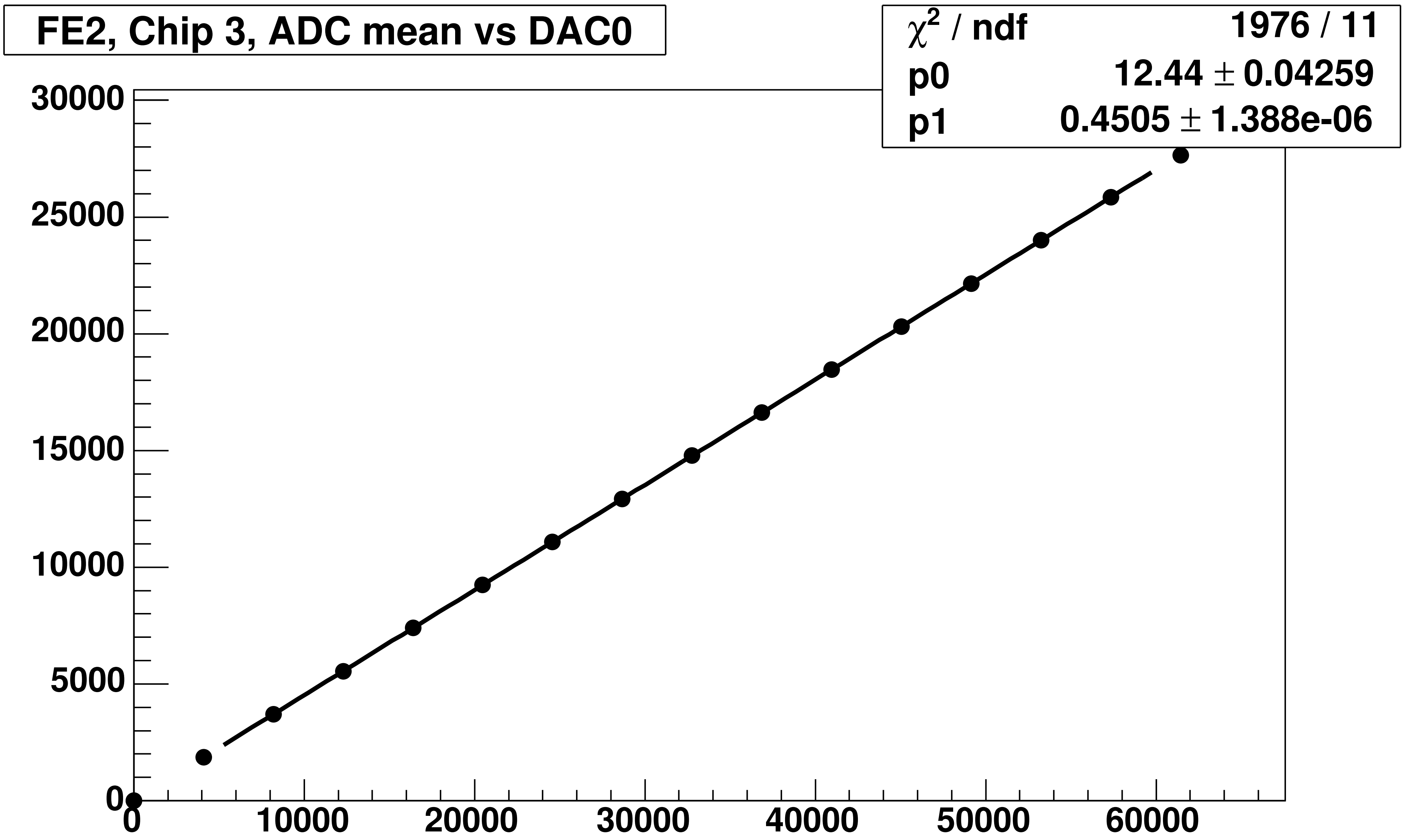


FE2, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

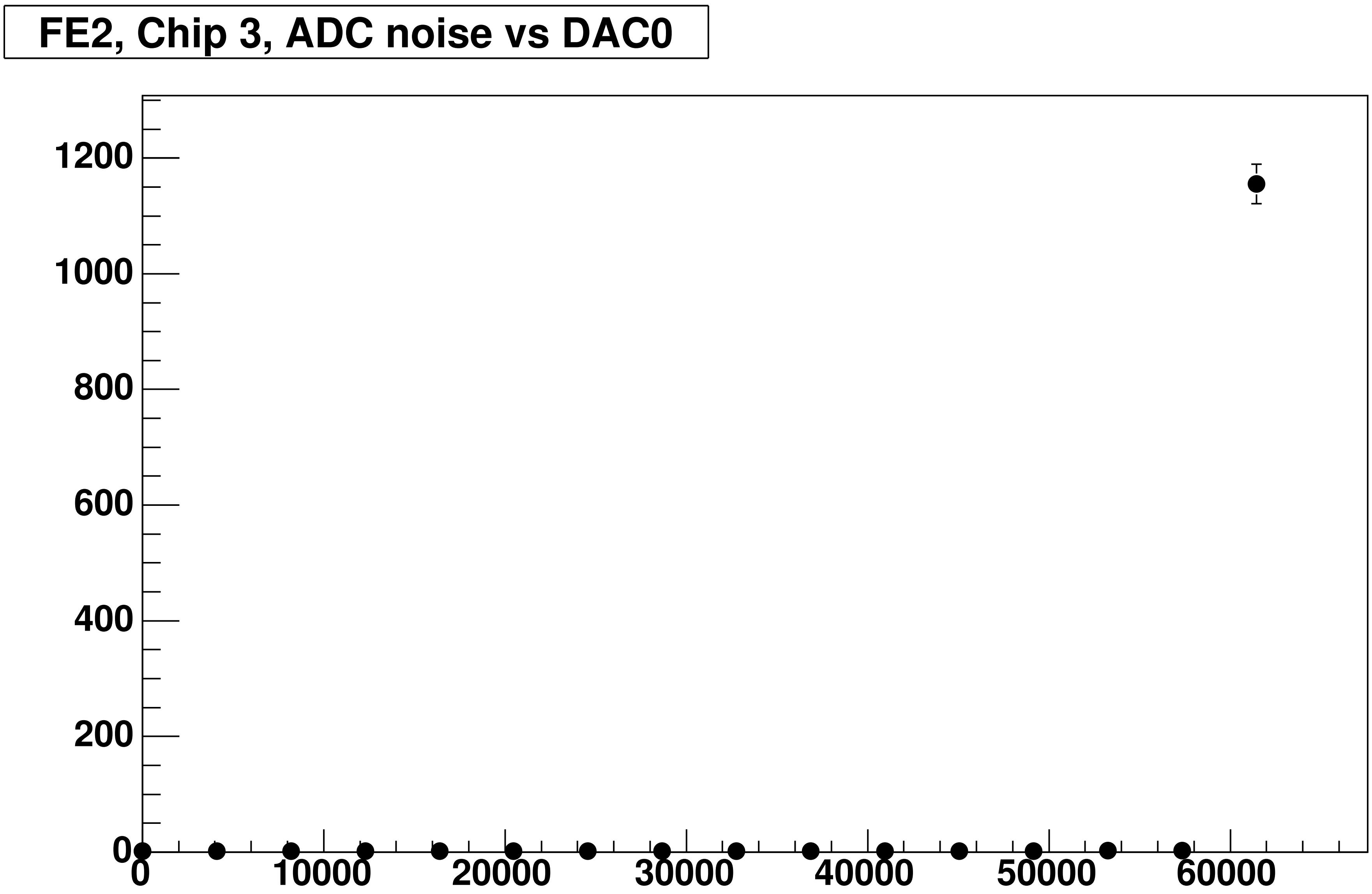

FE2, Chip 2, ADC mean vs DAC1
χ^2 / ndf 24.06 / 11
p0 11.96 ± 0.04253
p1 -2.044e-07 ± 1.169e-06
12.2
12.1
12
11.9
11.8
11.7
11.6
11.5
11.4
0
10000
20000
30000
40000
50000
60000

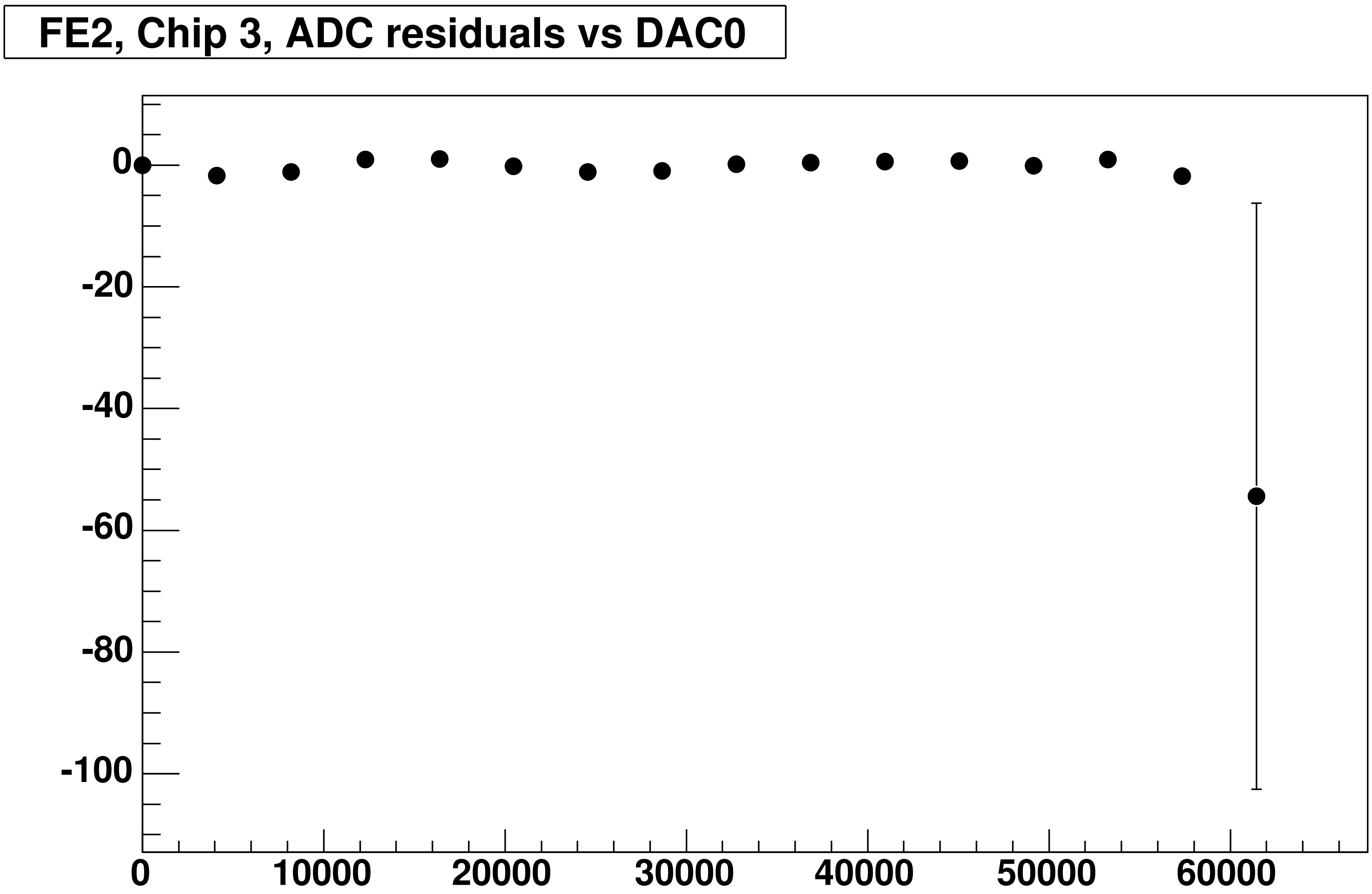

FE2, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

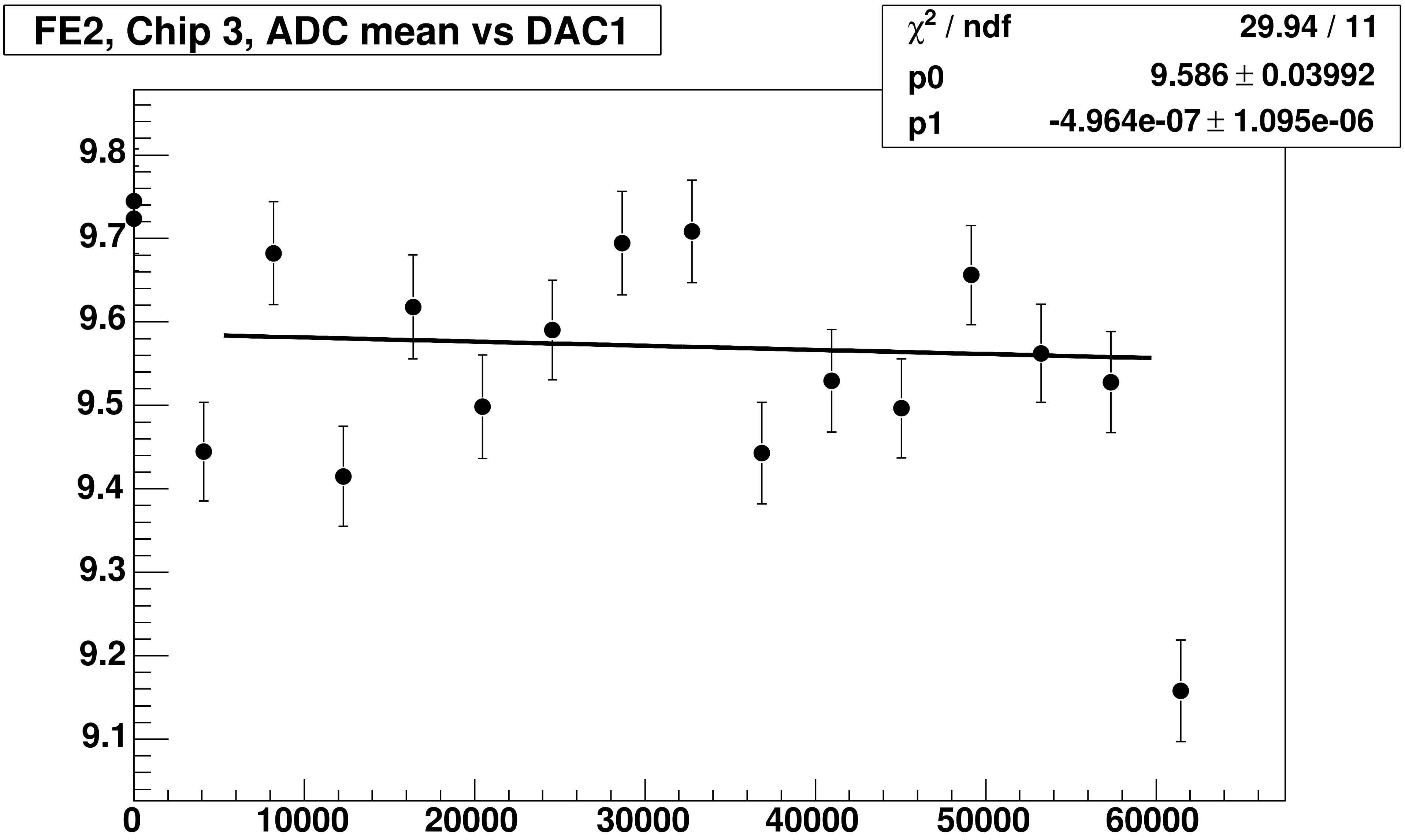

FE2, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
-0.6
0
10000
20000
30000
40000
50000
60000

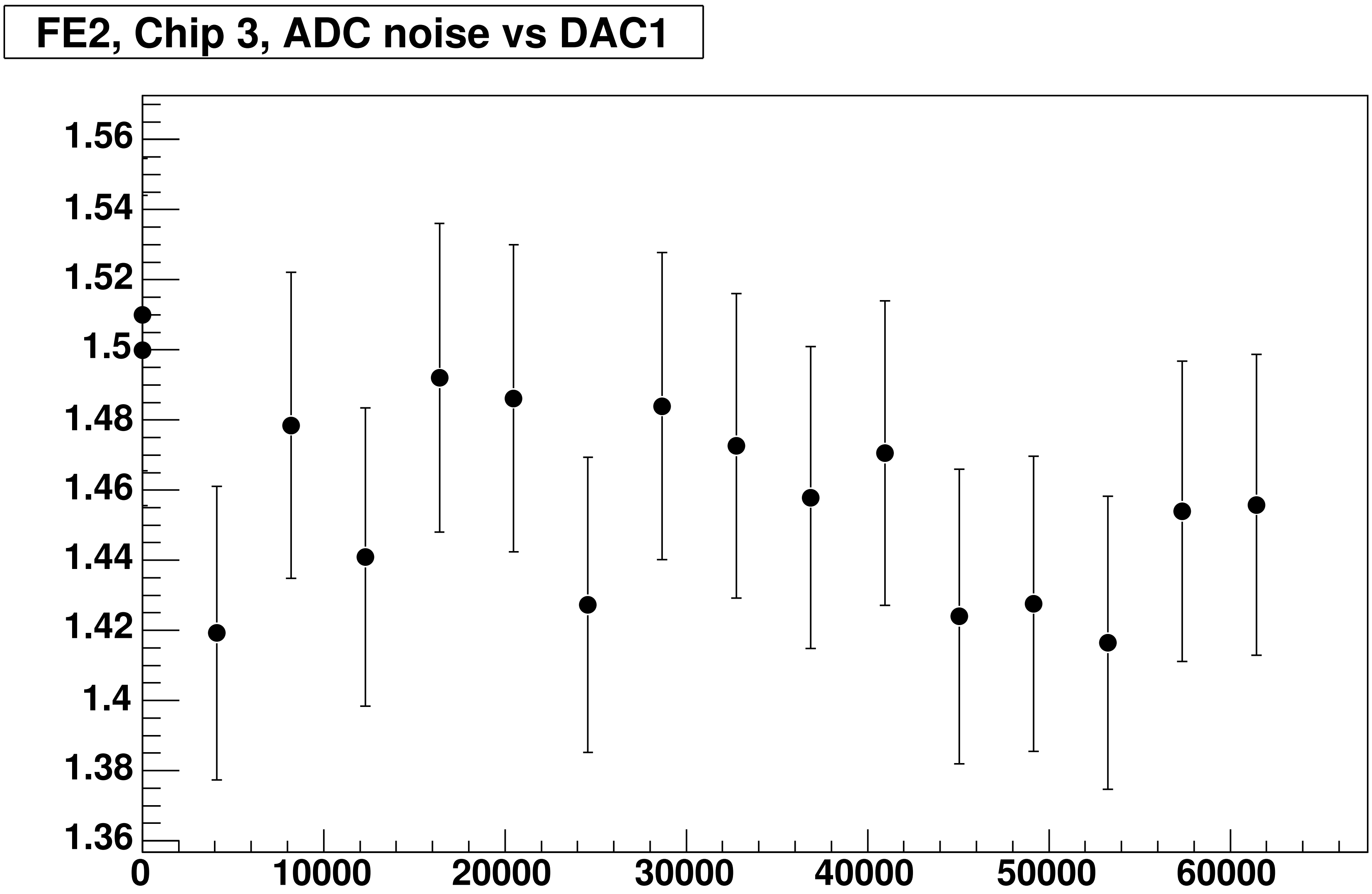


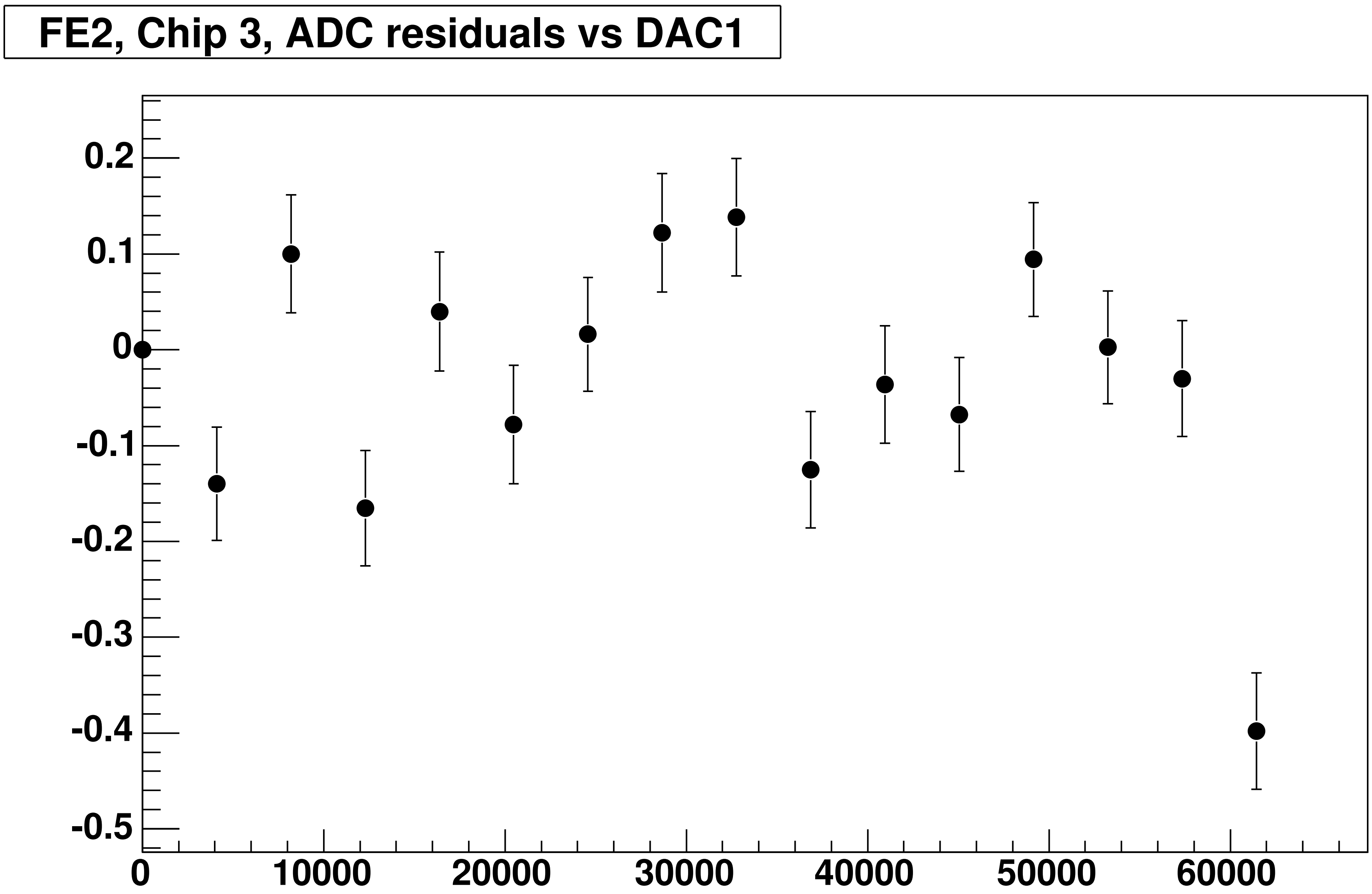
FE2, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1976 / 11
p0 12.44 ± 0.04259
p1 0.4505 ± 1.388e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

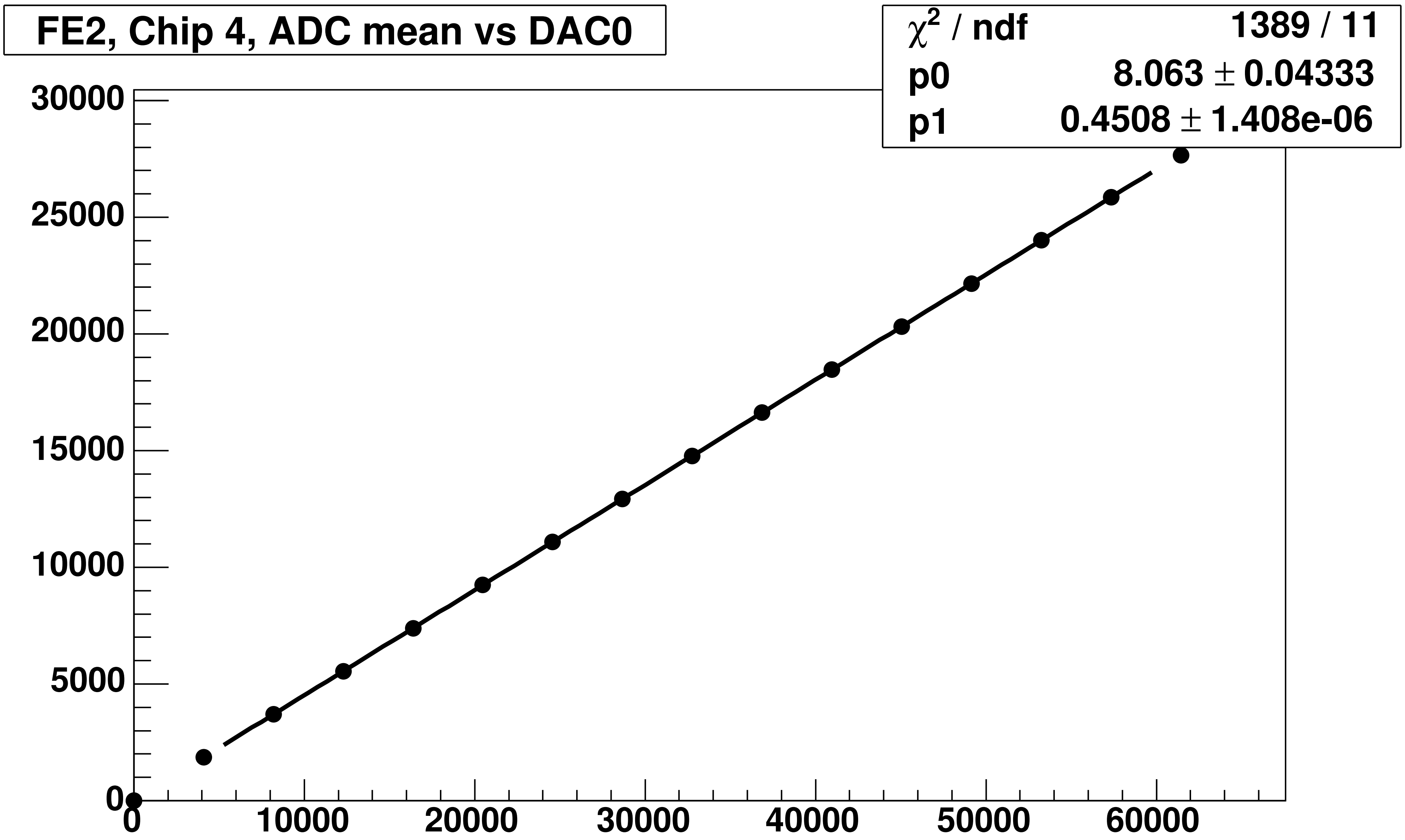

FE2, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

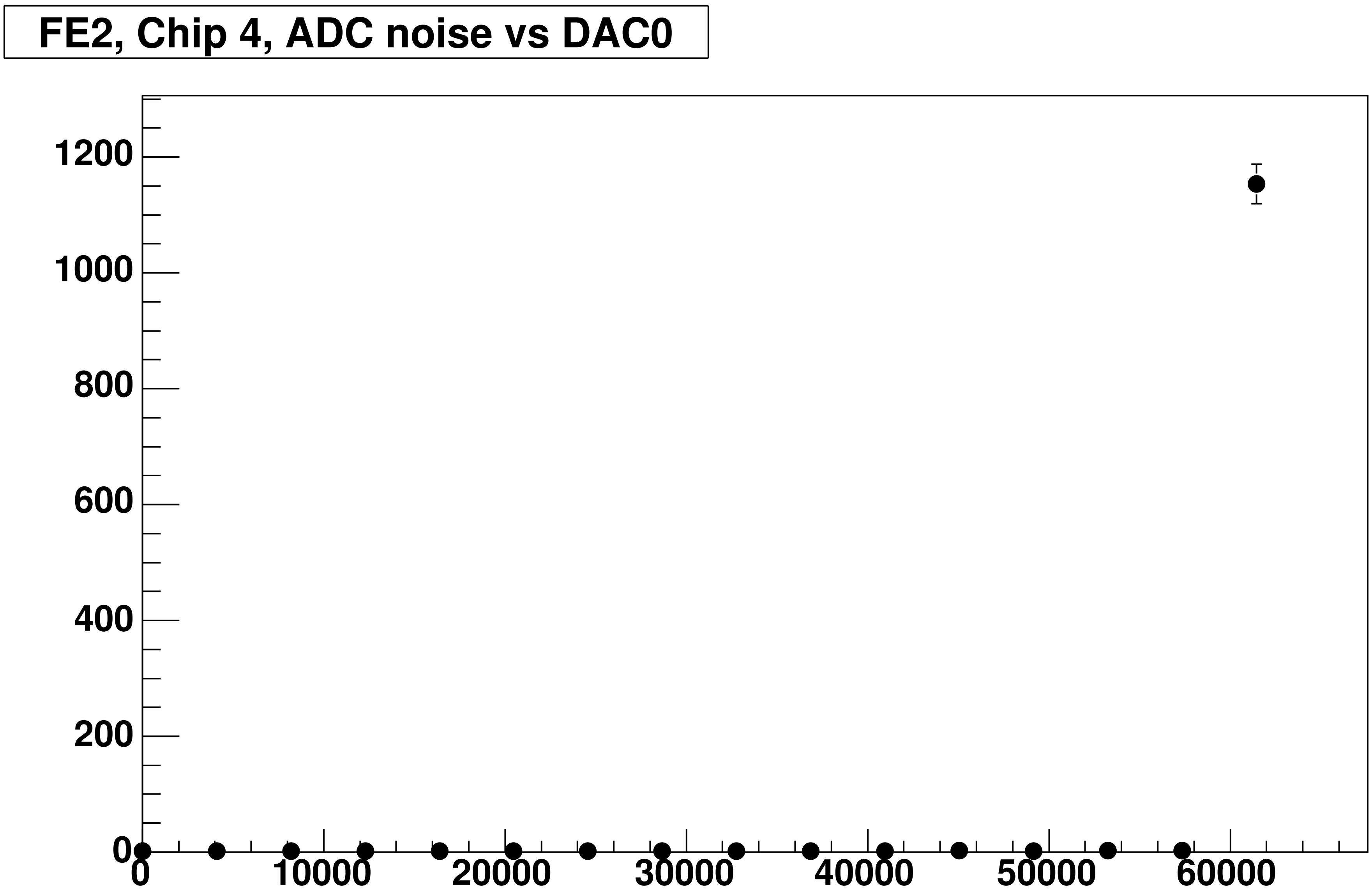

FE2, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

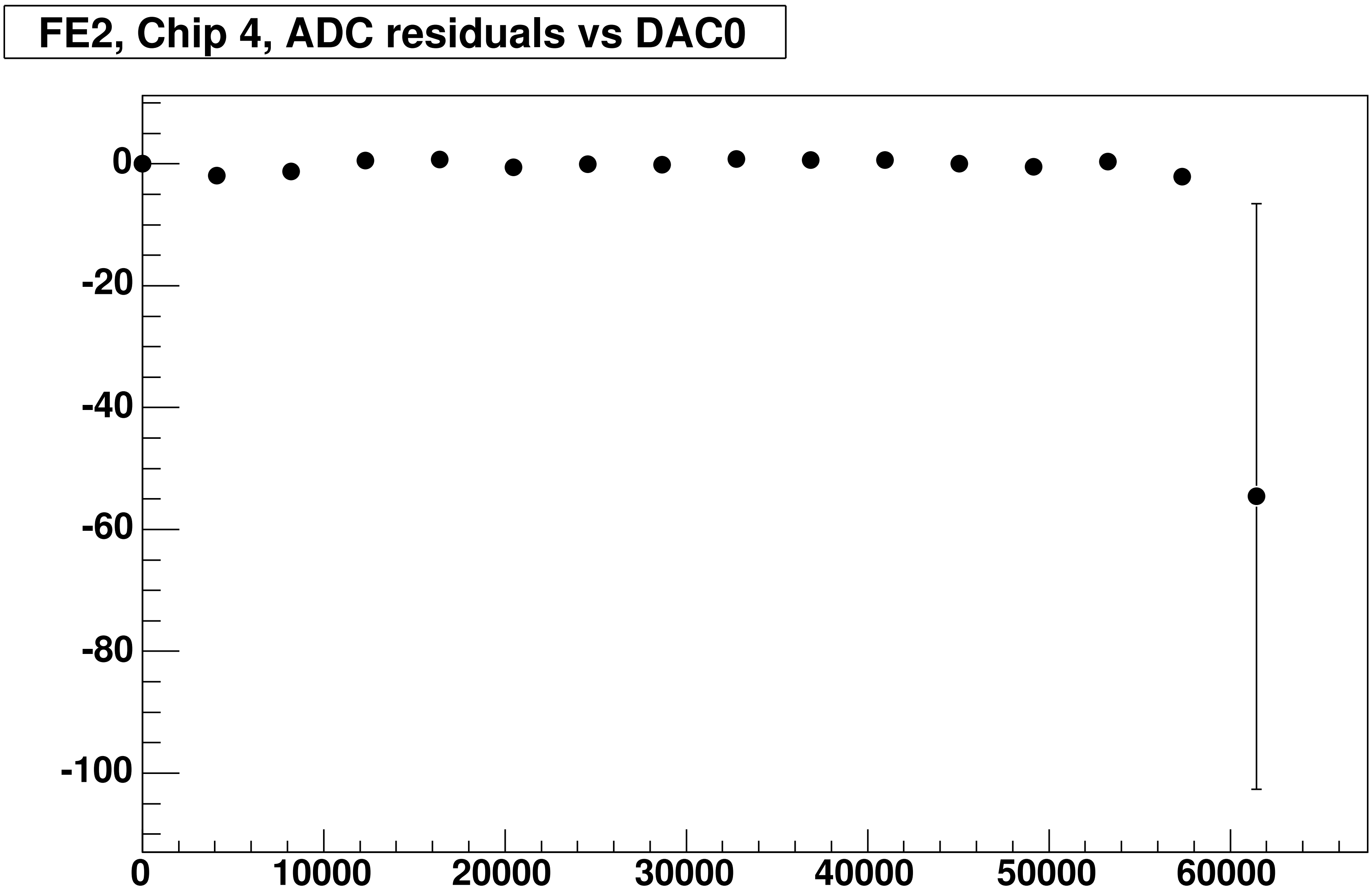

FE2, Chip 3, ADC mean vs DAC1
χ² / ndf 29.94 / 11
p0 9.586 ± 0.03992
p1 -4.964e-07 ± 1.095e-06
9.8
9.7
9.6
9.5
9.4
9.3
9.2
9.1
0
10000
20000
30000
40000
50000
60000

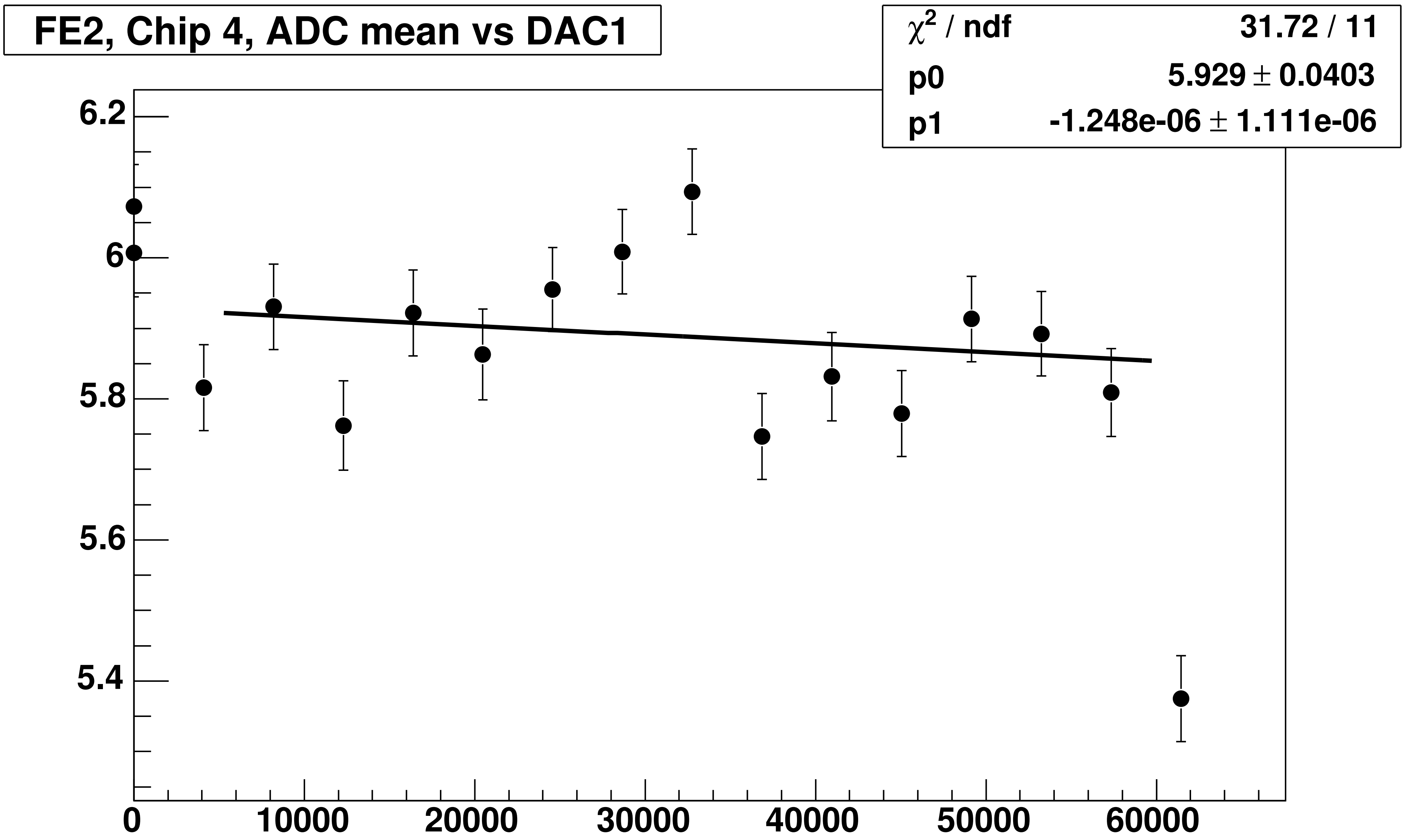

FE2, Chip 3, ADC noise vs DAC1
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
0
10000
20000
30000
40000
50000
60000


FE2, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

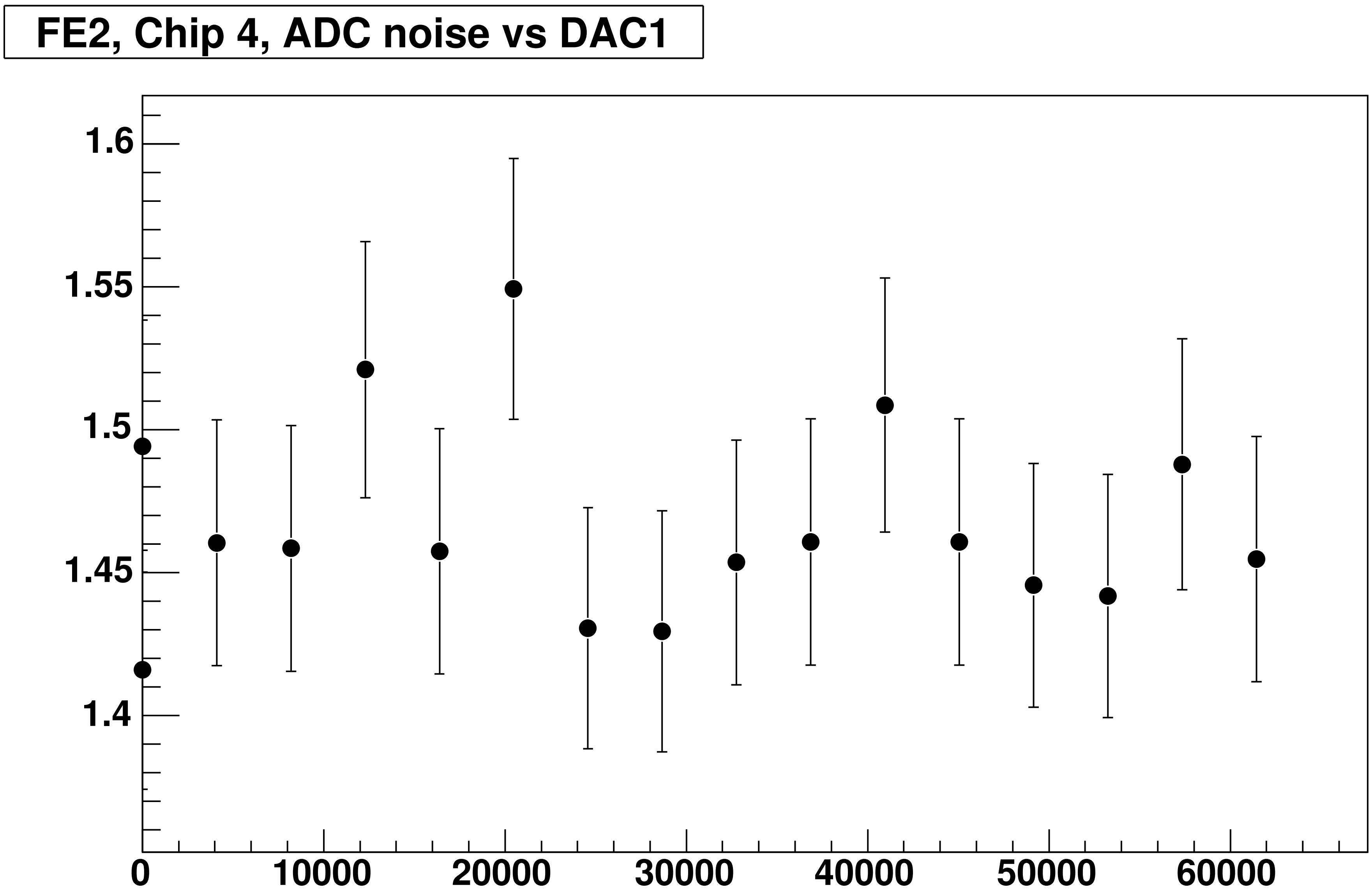

FE2, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1389 / 11
p0 8.063 ± 0.04333
p1 0.4508 ± 1.408e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

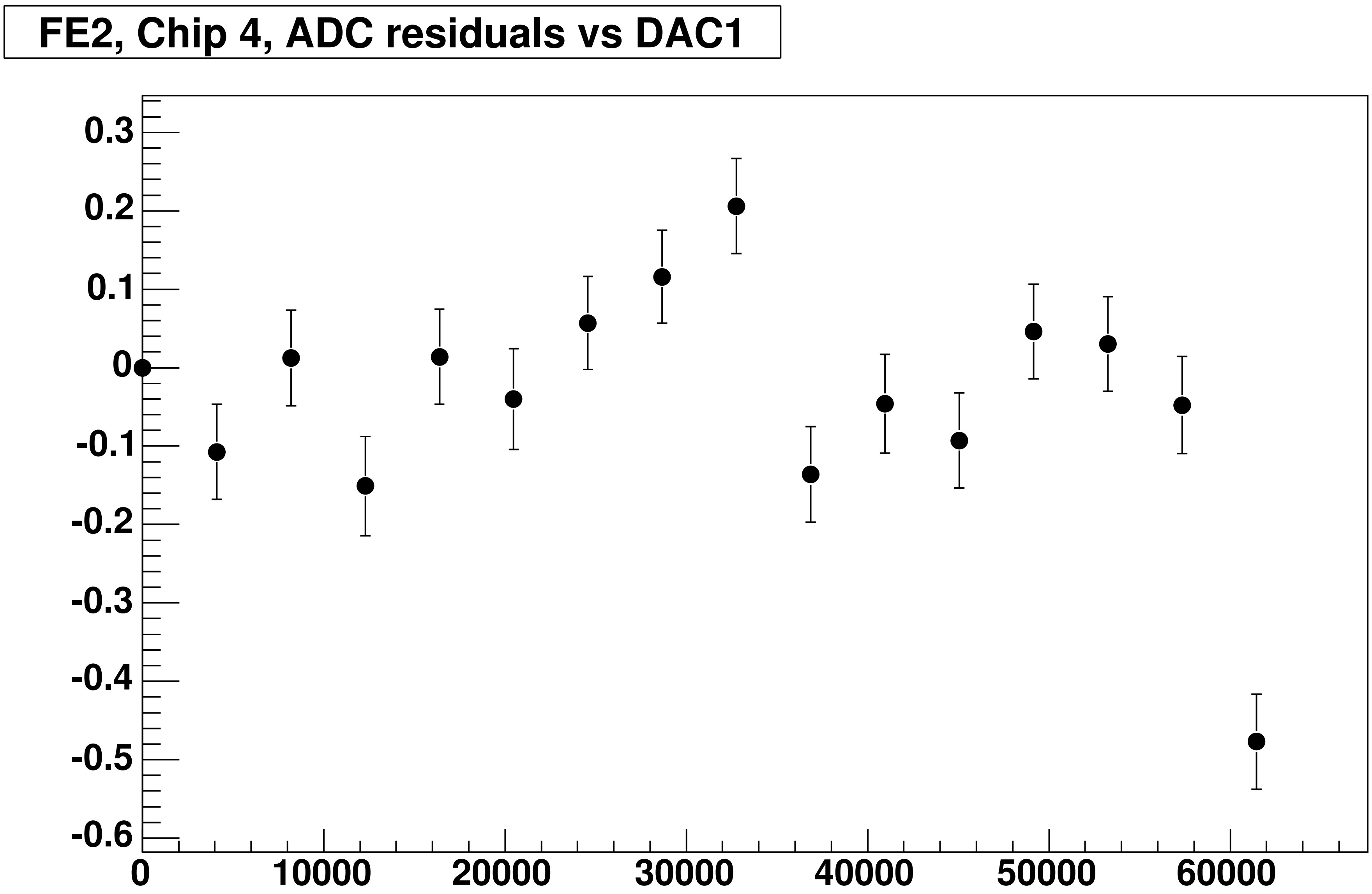

FE2, Chip 4, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

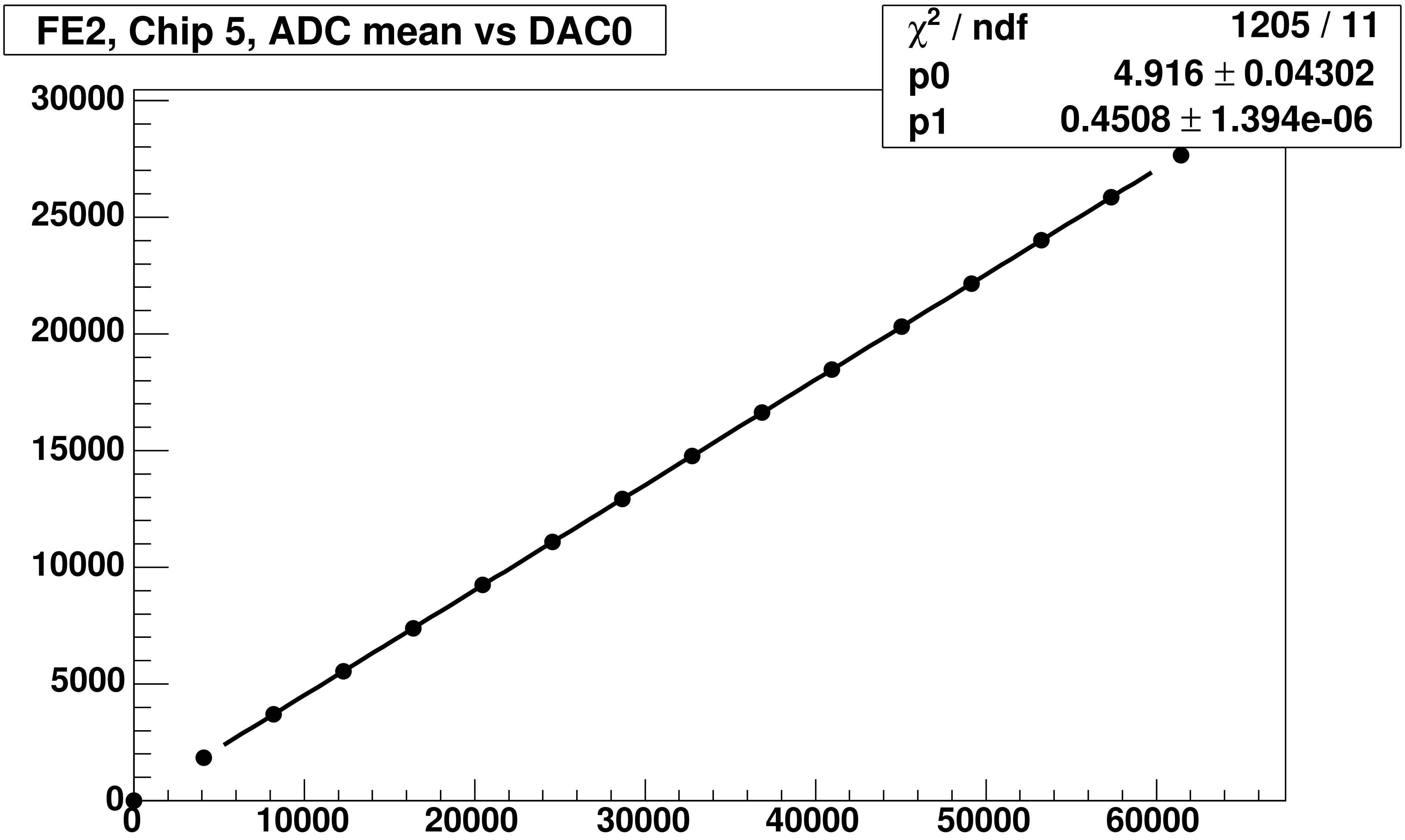

FE2, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



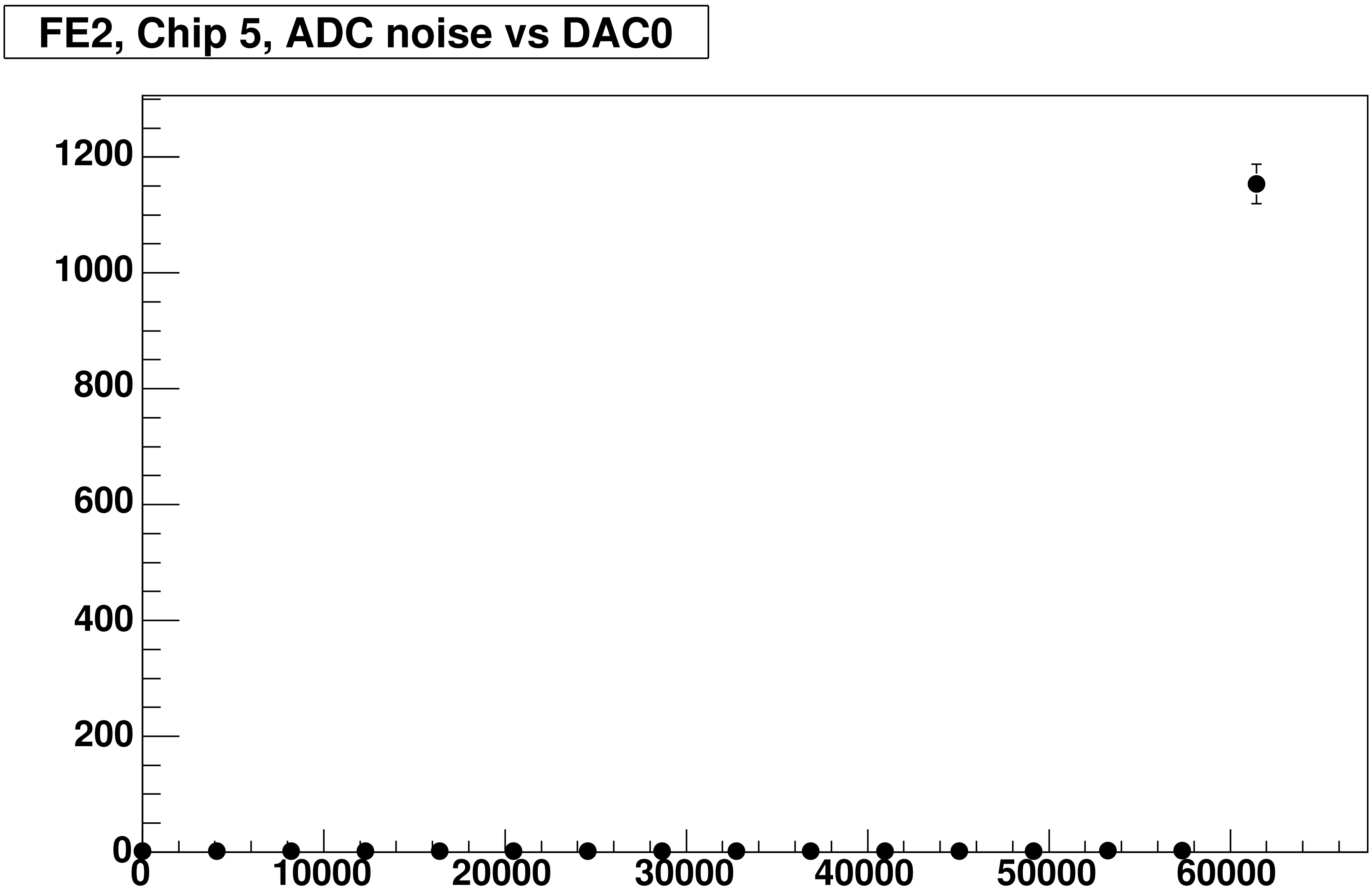
FE2, Chip 4, ADC mean vs DAC1
χ2 / ndf 31.72 / 11
p0 5.929 ± 0.0403
p1 -1.248e-06 ± 1.111e-06
6.2
6
5.8
5.6
5.4
0
10000
20000
30000
40000
50000
60000


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

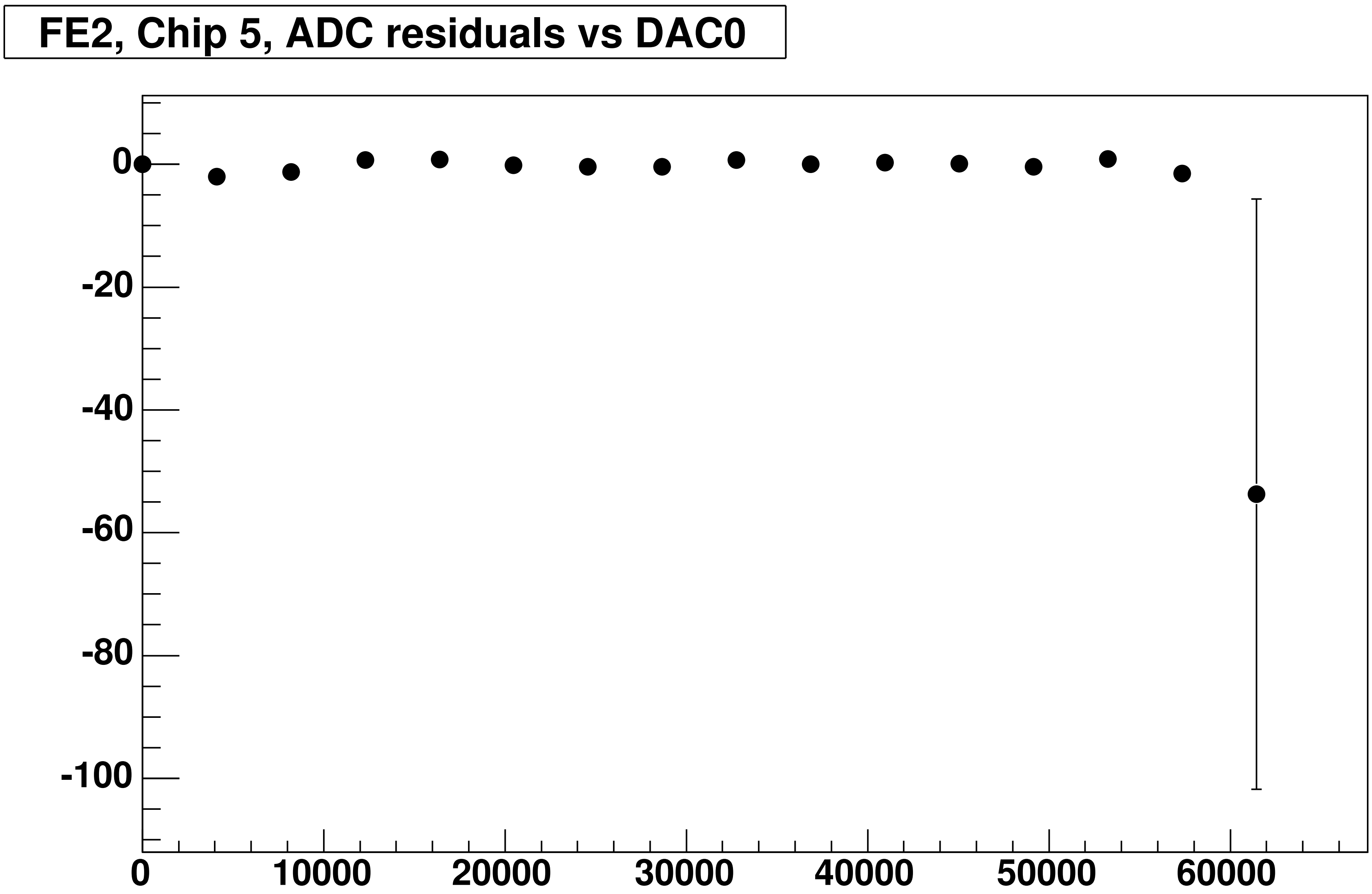

FE2, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
-0.6
0
10000
20000
30000
40000
50000
60000

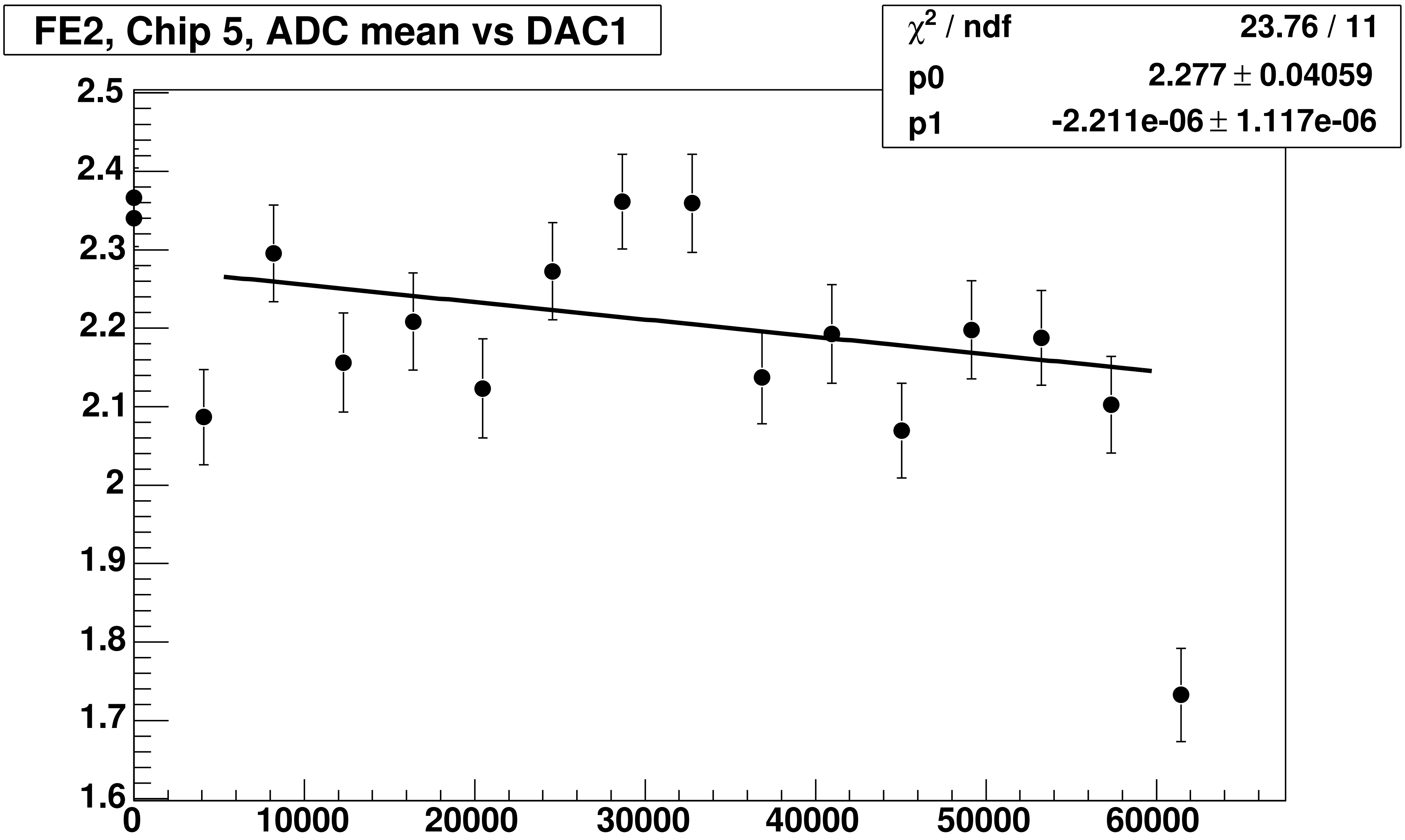


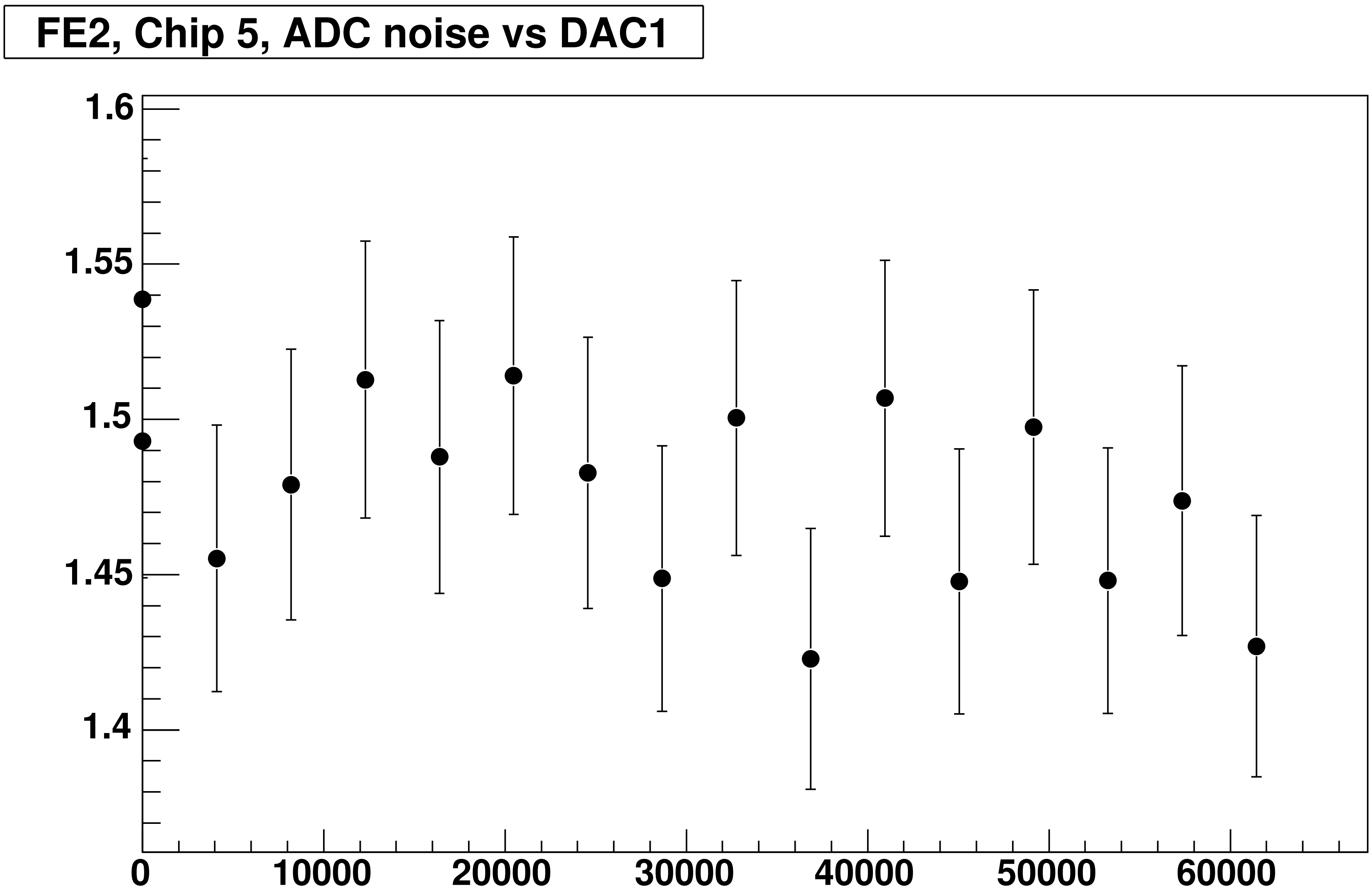
FE2, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1205 / 11
p0 4.916 ± 0.04302
p1 0.4508 ± 1.394e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

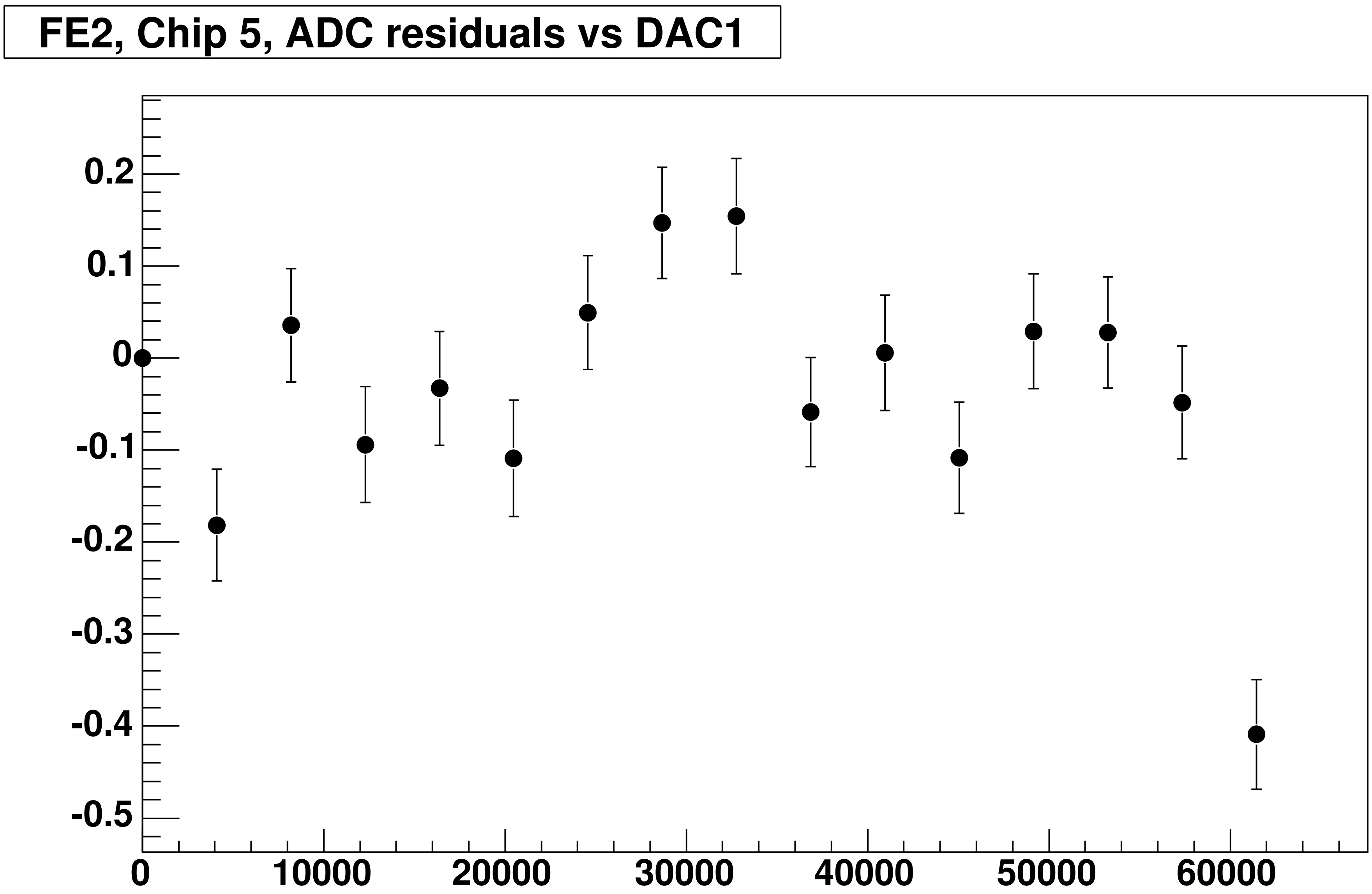


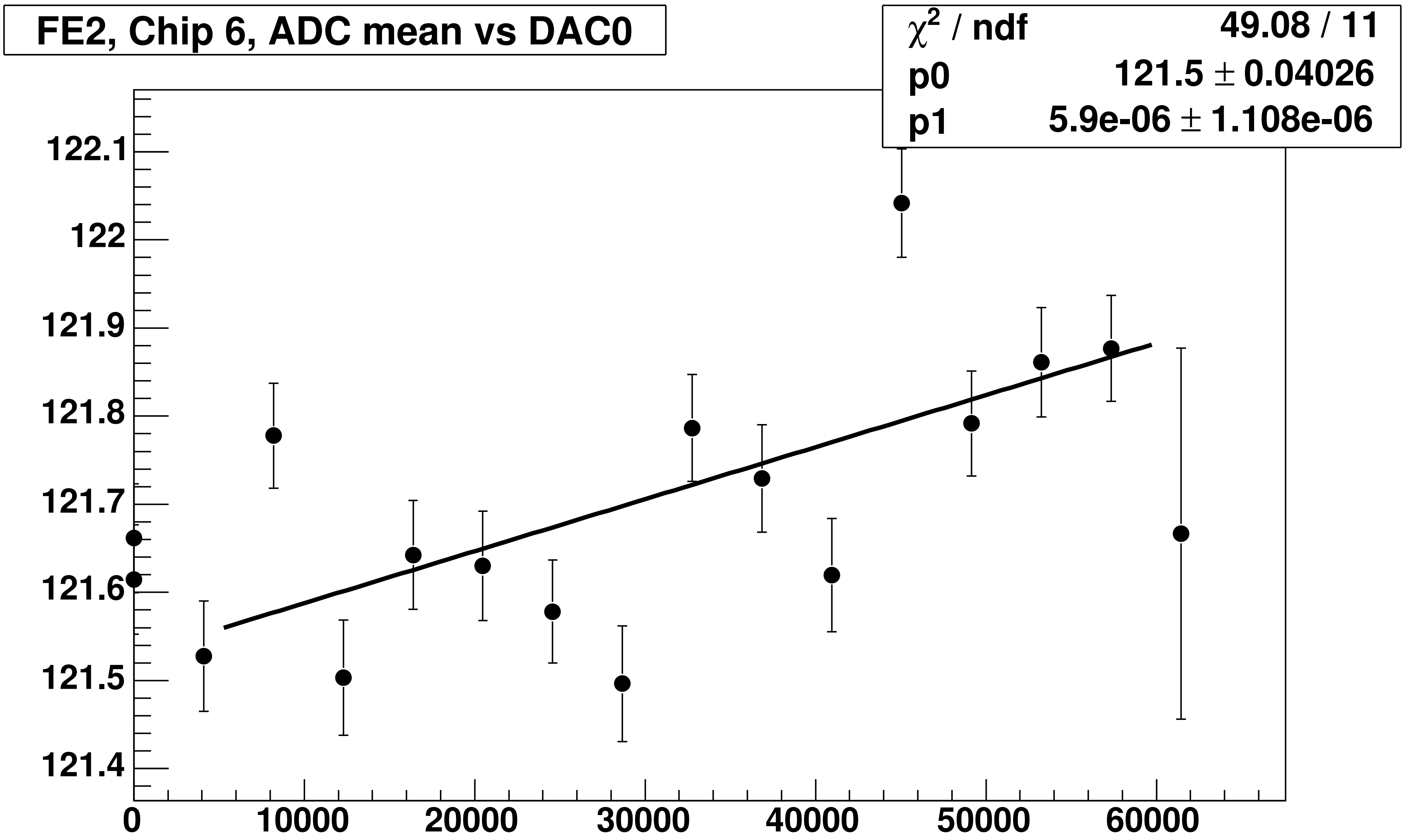
FE2, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

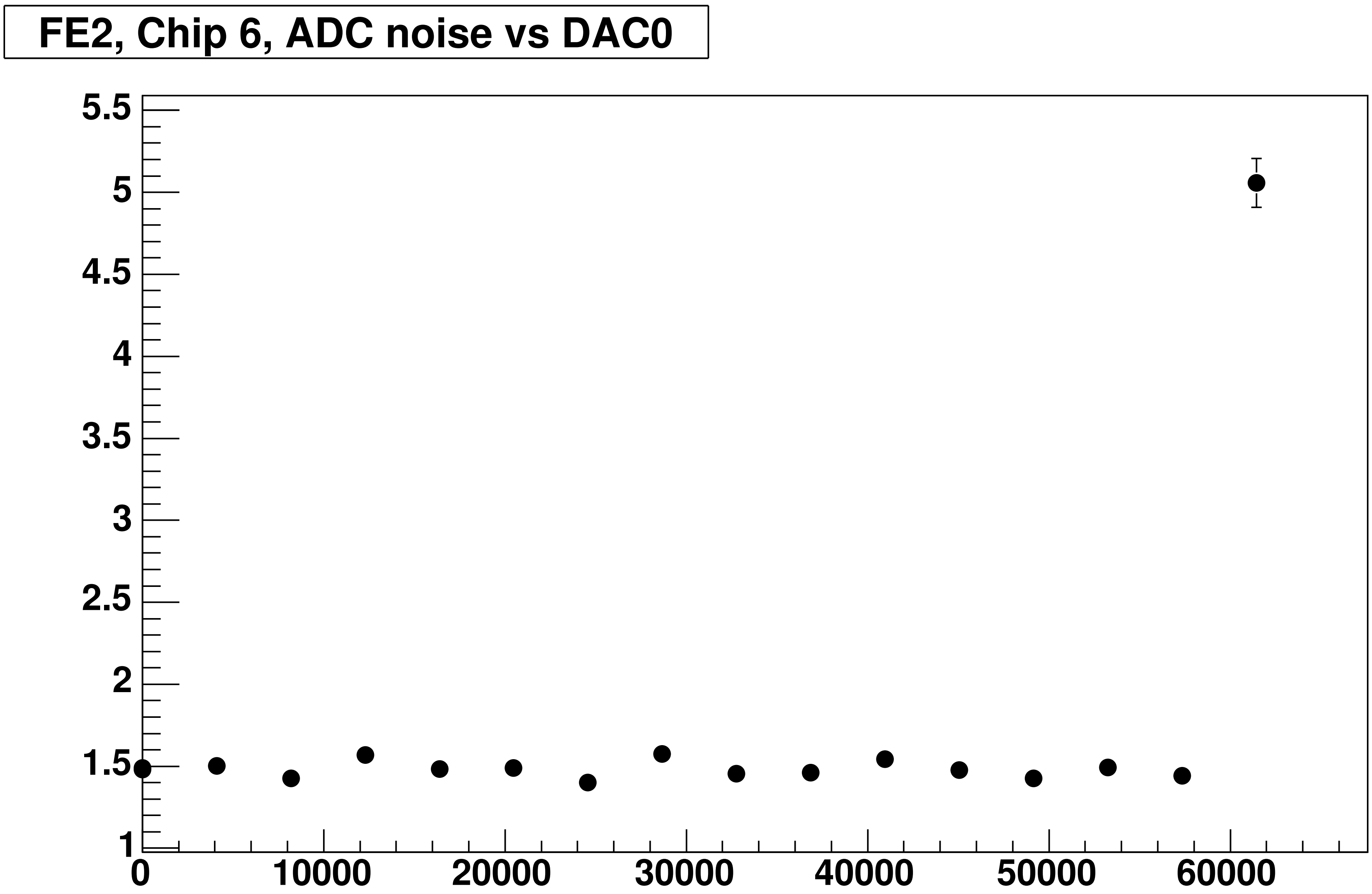

FE2, Chip 5, ADC mean vs DAC1
χ² / ndf 23.76 / 11
p0 2.277 ± 0.04059
p1 -2.211e-06 ± 1.117e-06
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
0
10000
20000
30000
40000
50000
60000


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

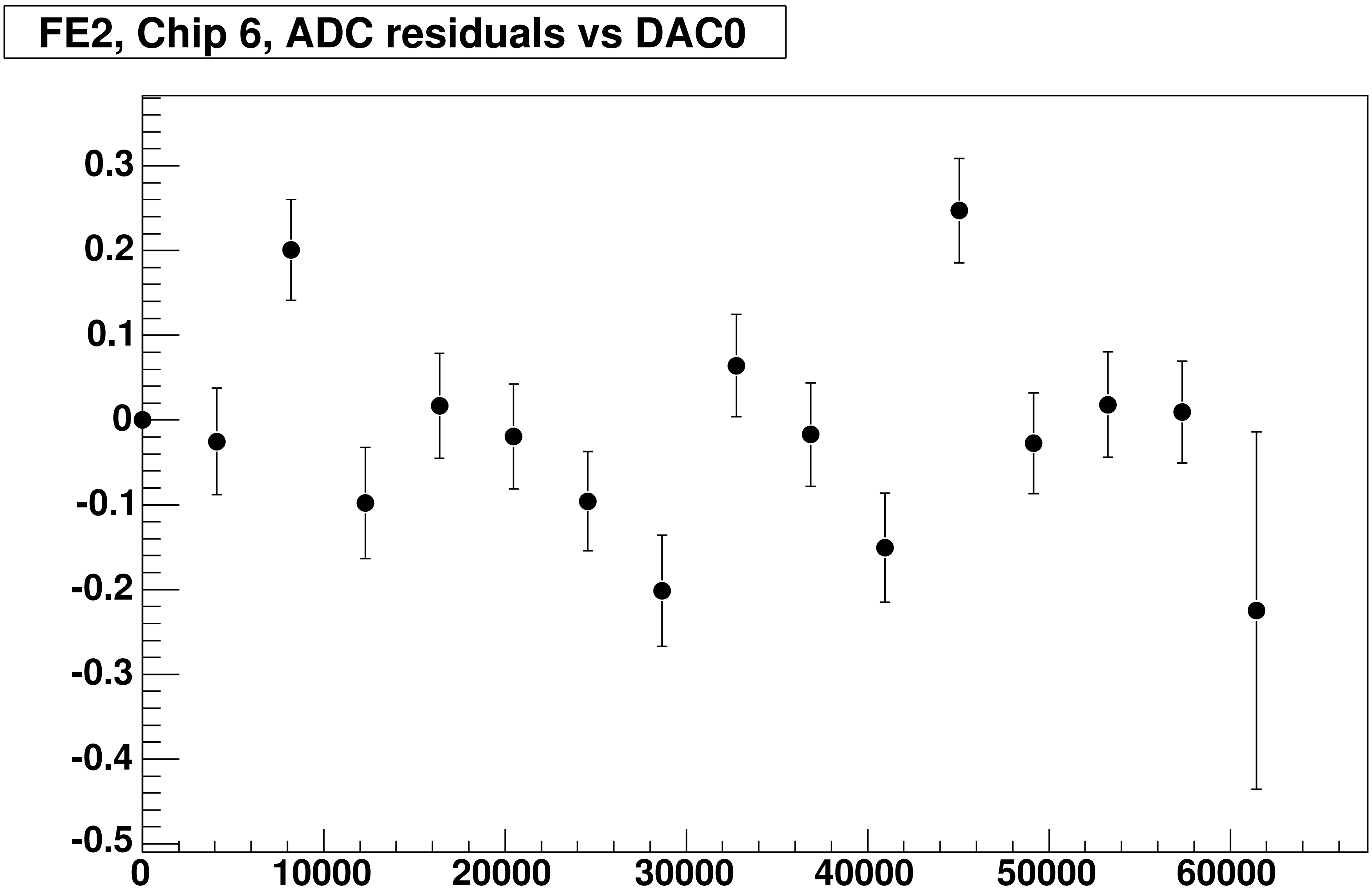

FE2, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000



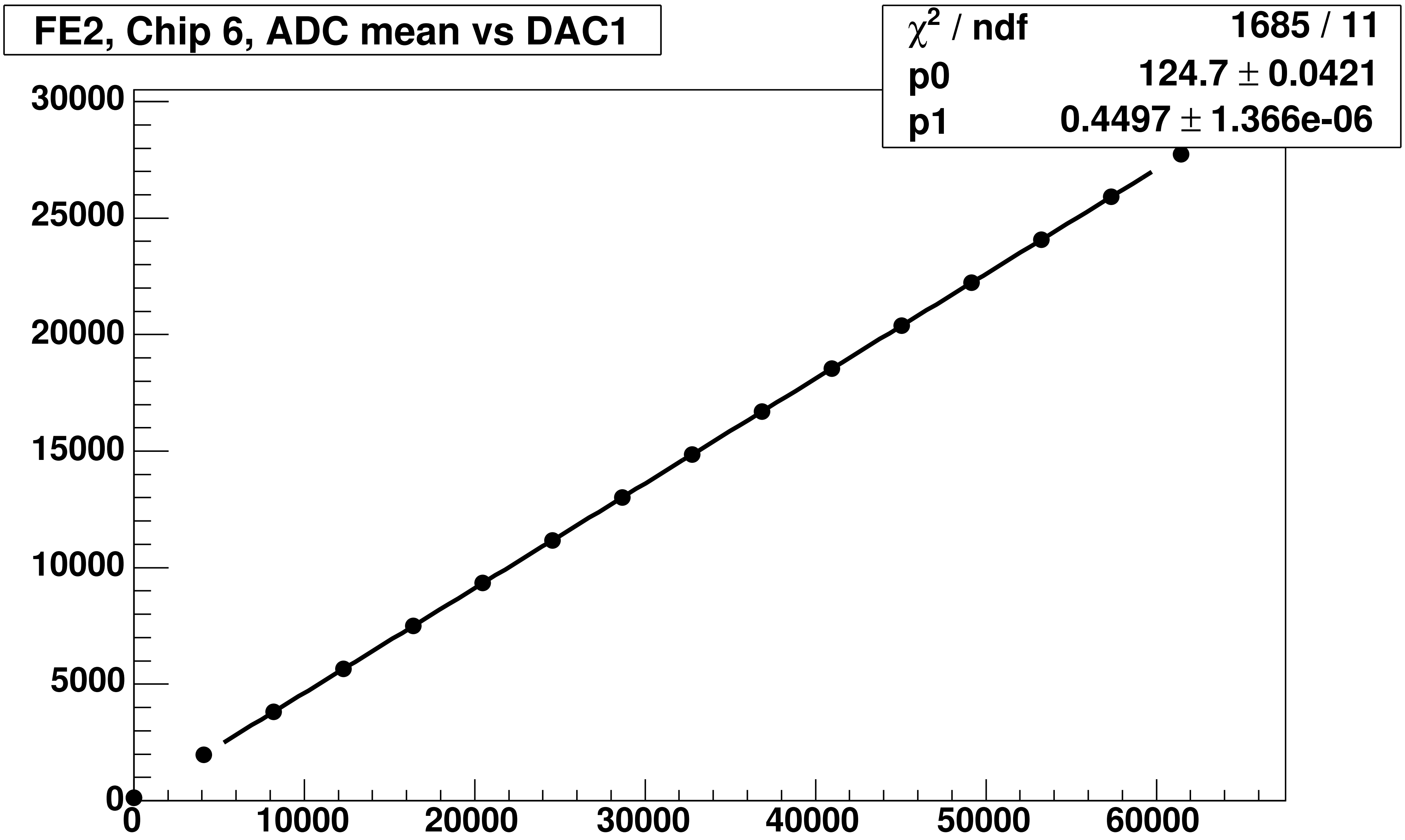
FE2, Chip 6, ADC mean vs DAC0
χ² / ndf 49.08 / 11
p0 121.5 ± 0.04026
p1 5.9e-06 ± 1.108e-06
122.1
122
121.9
121.8
121.7
121.6
121.5
121.4
0
10000
20000
30000
40000
50000
60000



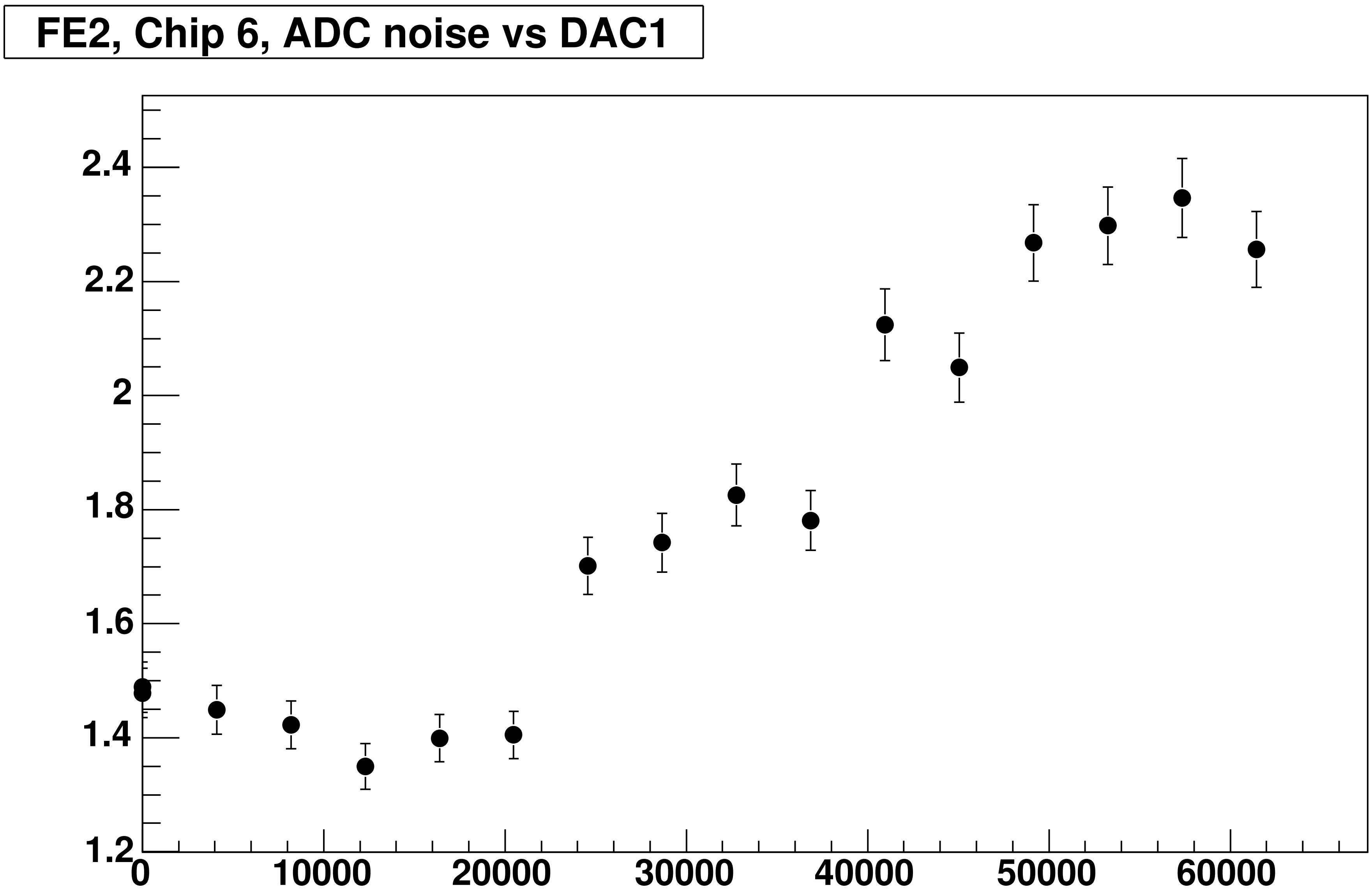
FE2, Chip 6, ADC noise vs DAC0
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0
10000
20000
30000
40000
50000
60000



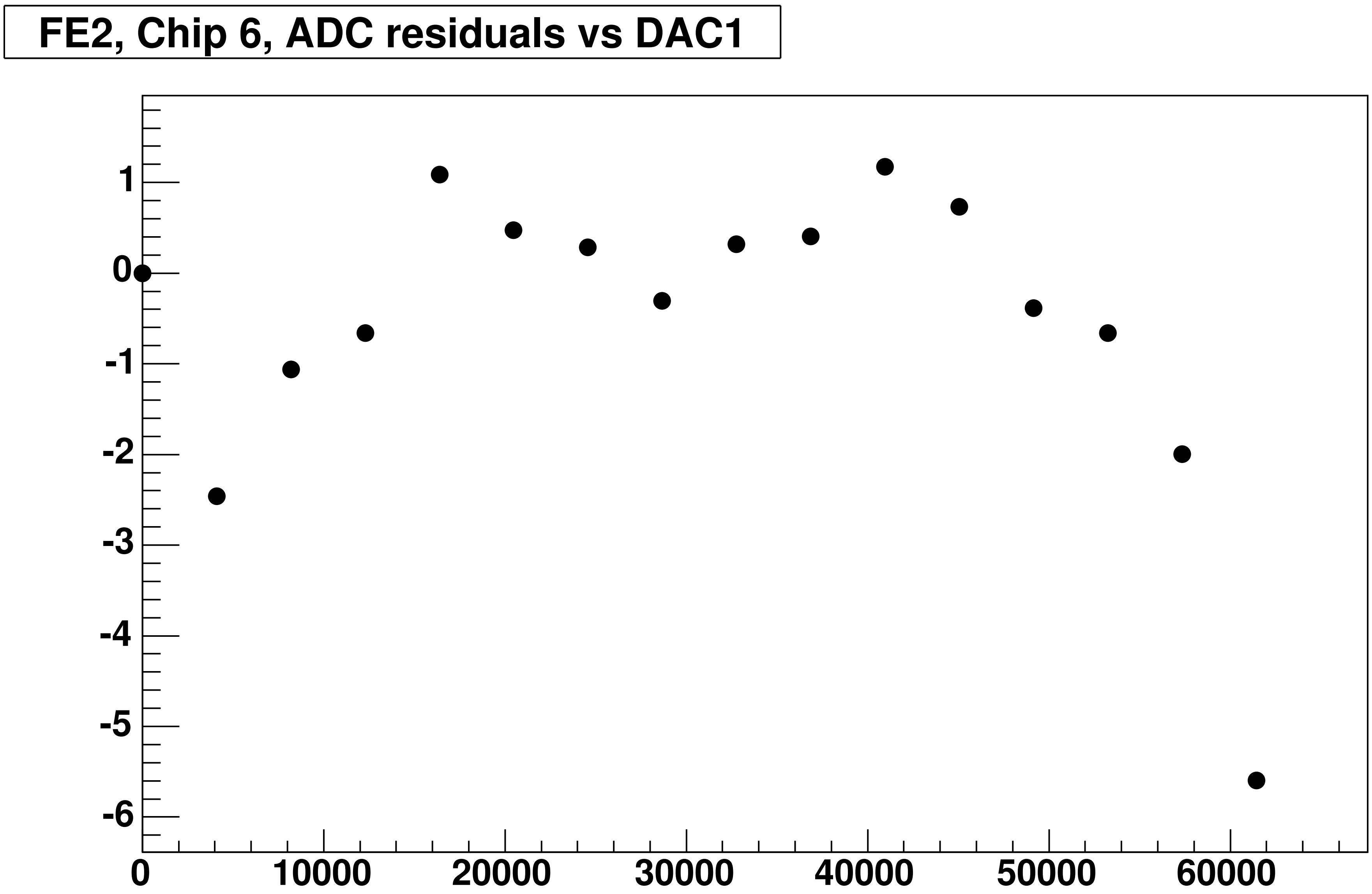
FE2, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000



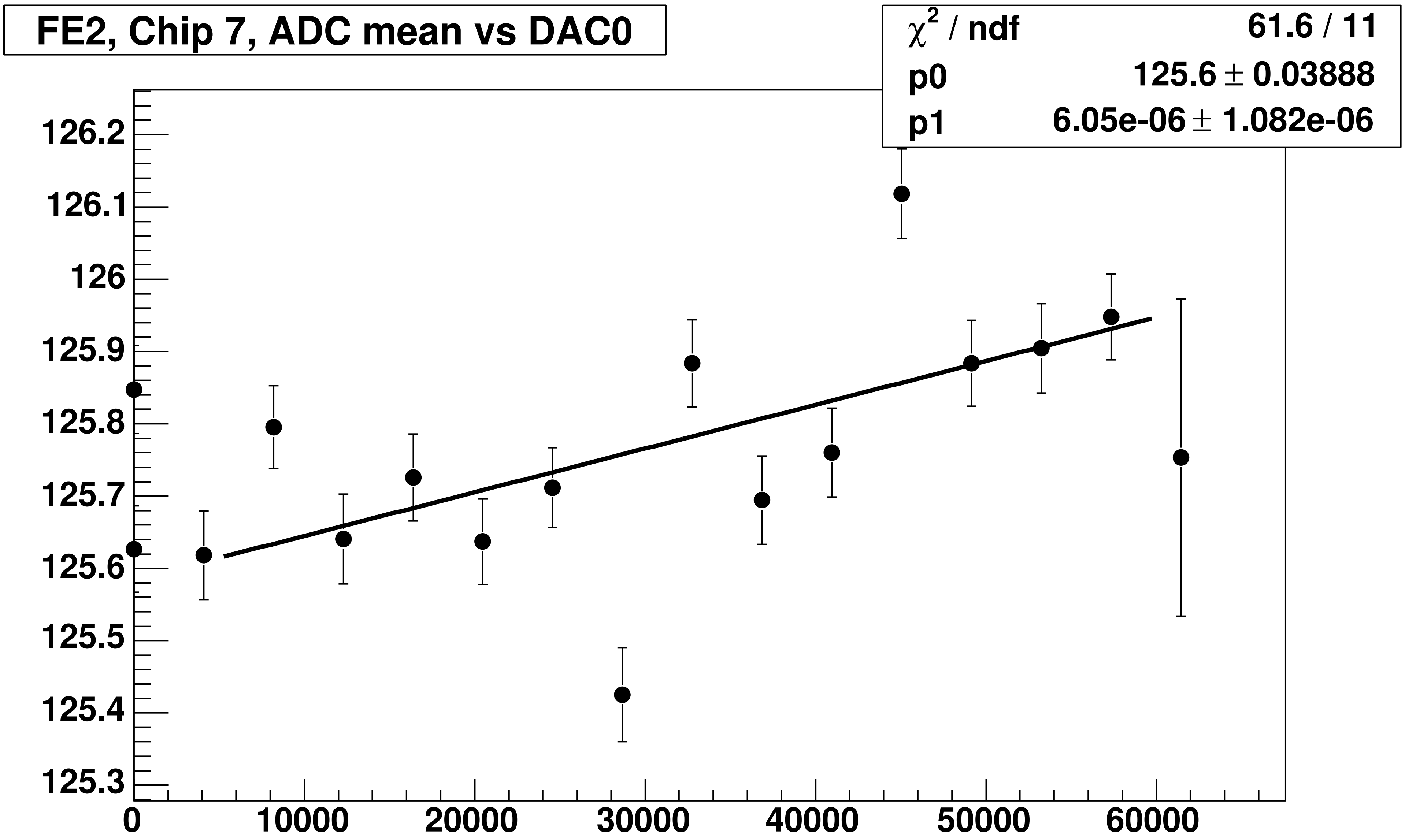
FE2, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1685 / 11
p0 124.7 ± 0.0421
p1 0.4497 ± 1.366e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

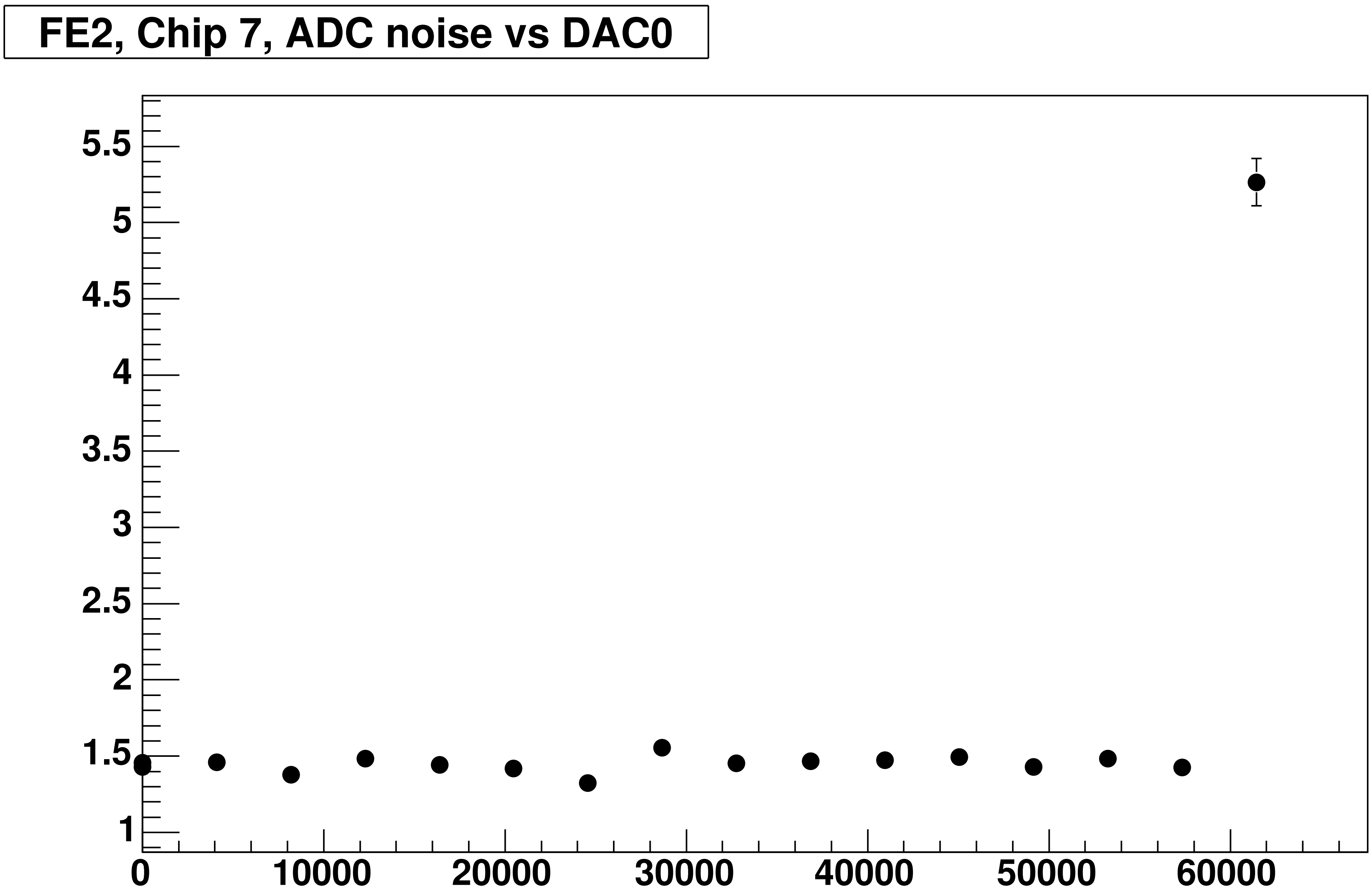


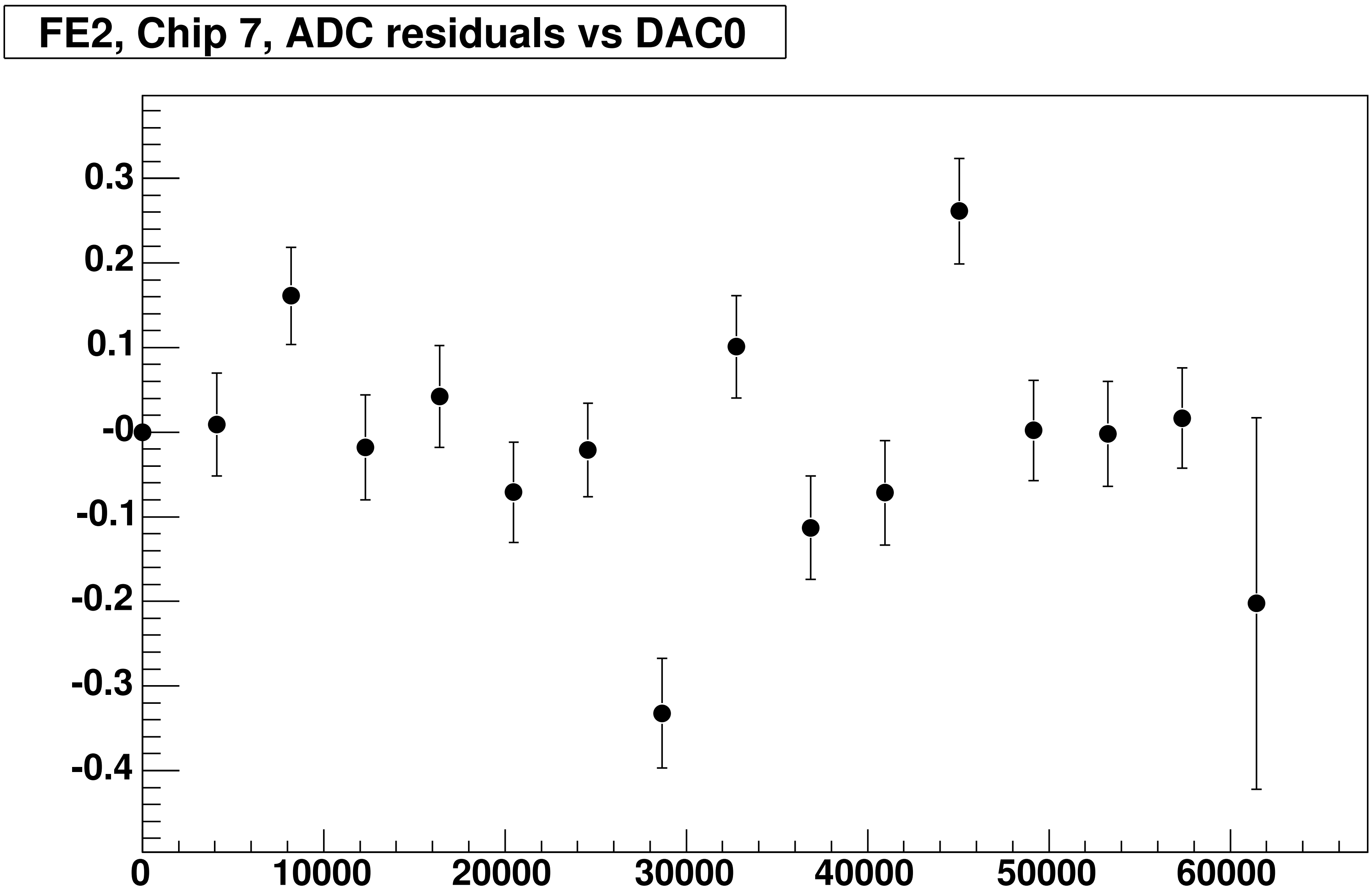
FE2, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



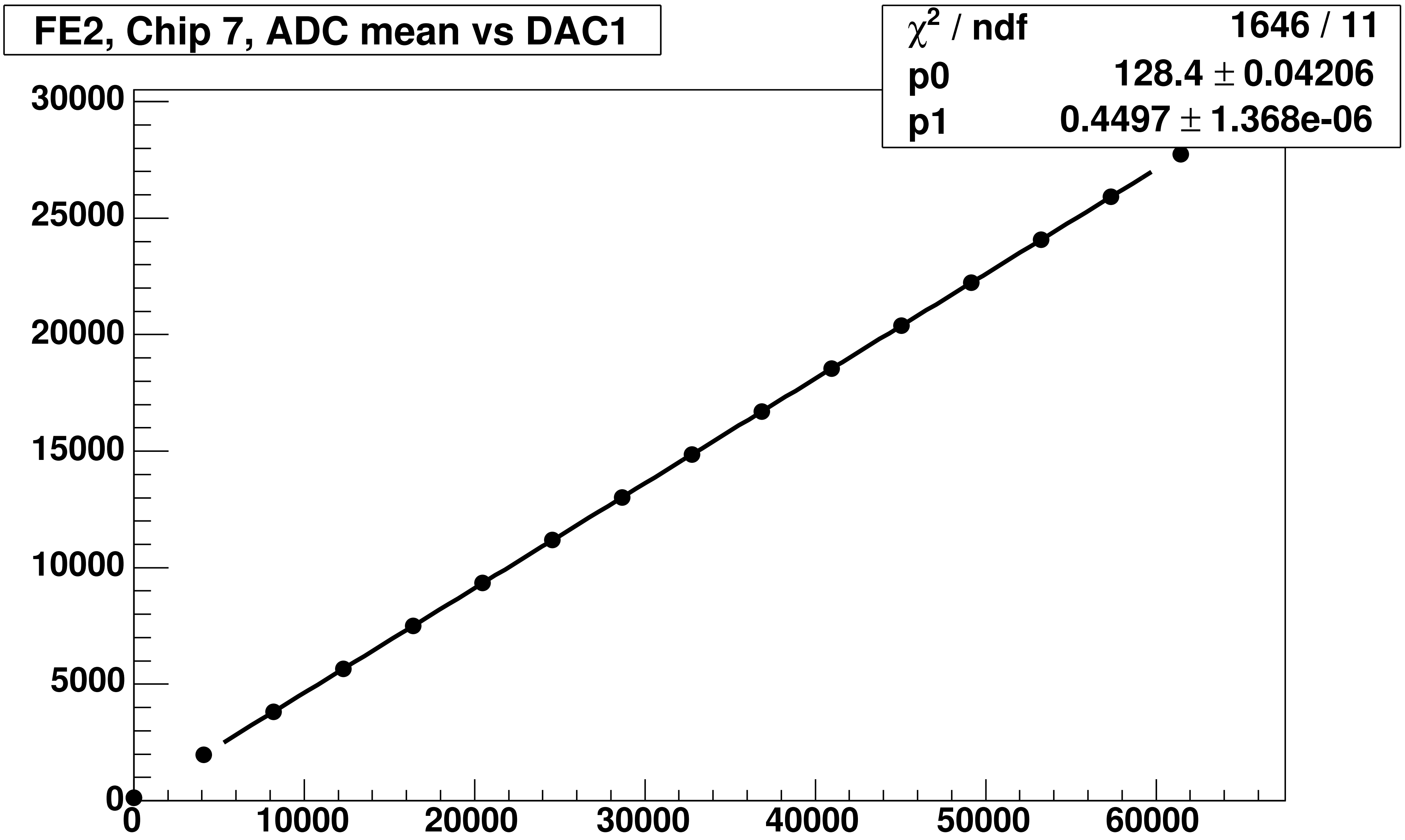
FE2, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE2, Chip 7, ADC mean vs DAC0
χ^2 / ndf 61.6 / 11
p0 125.6 ± 0.03888
p1 6.05e-06 ± 1.082e-06
126.2
126.1
126
125.9
125.8
125.7
125.6
125.5
125.4
125.3
0
10000
20000
30000
40000
50000
60000

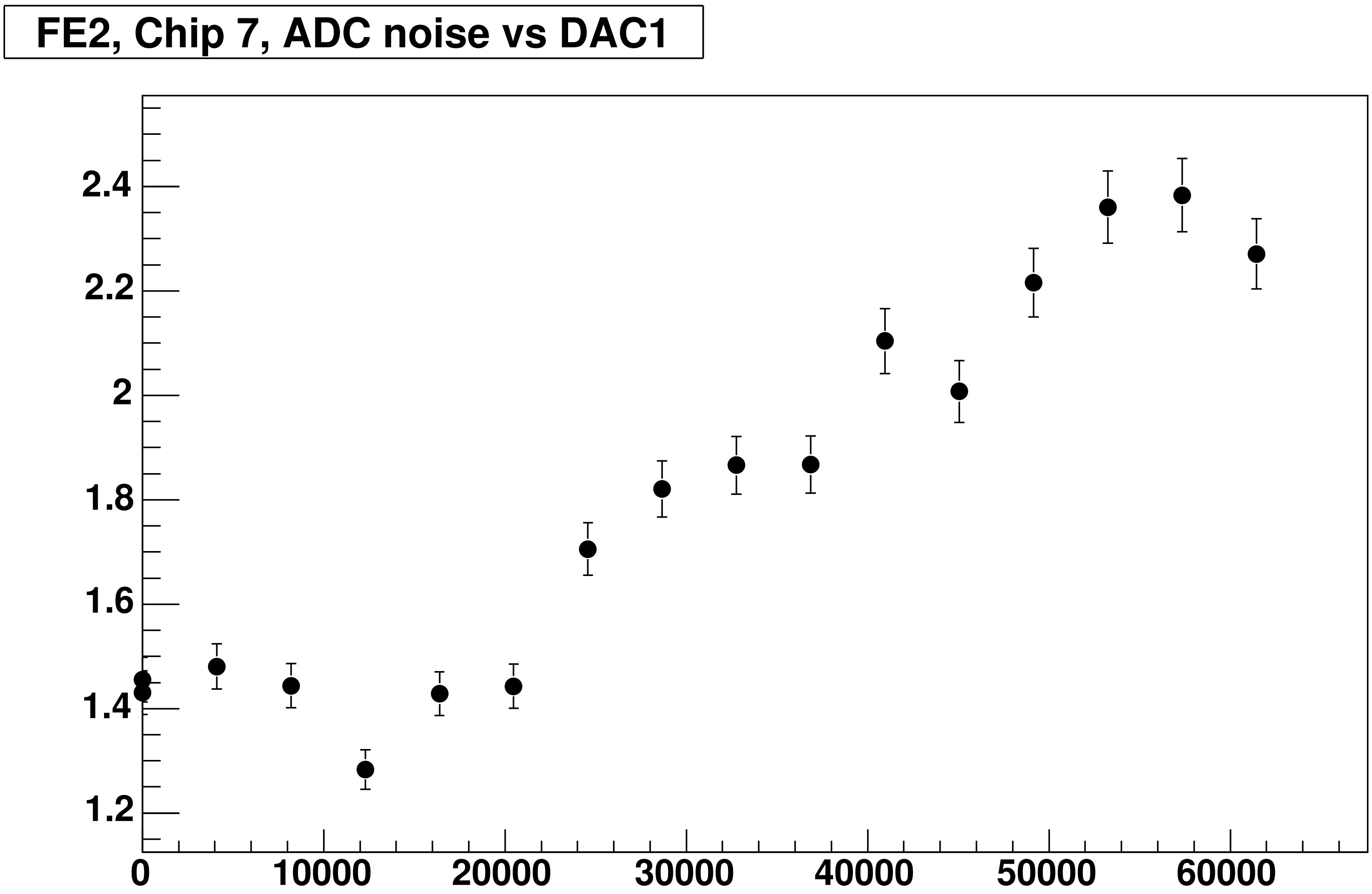

FE2, Chip 7, ADC noise vs DAC0
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0
10000
20000
30000
40000
50000
60000



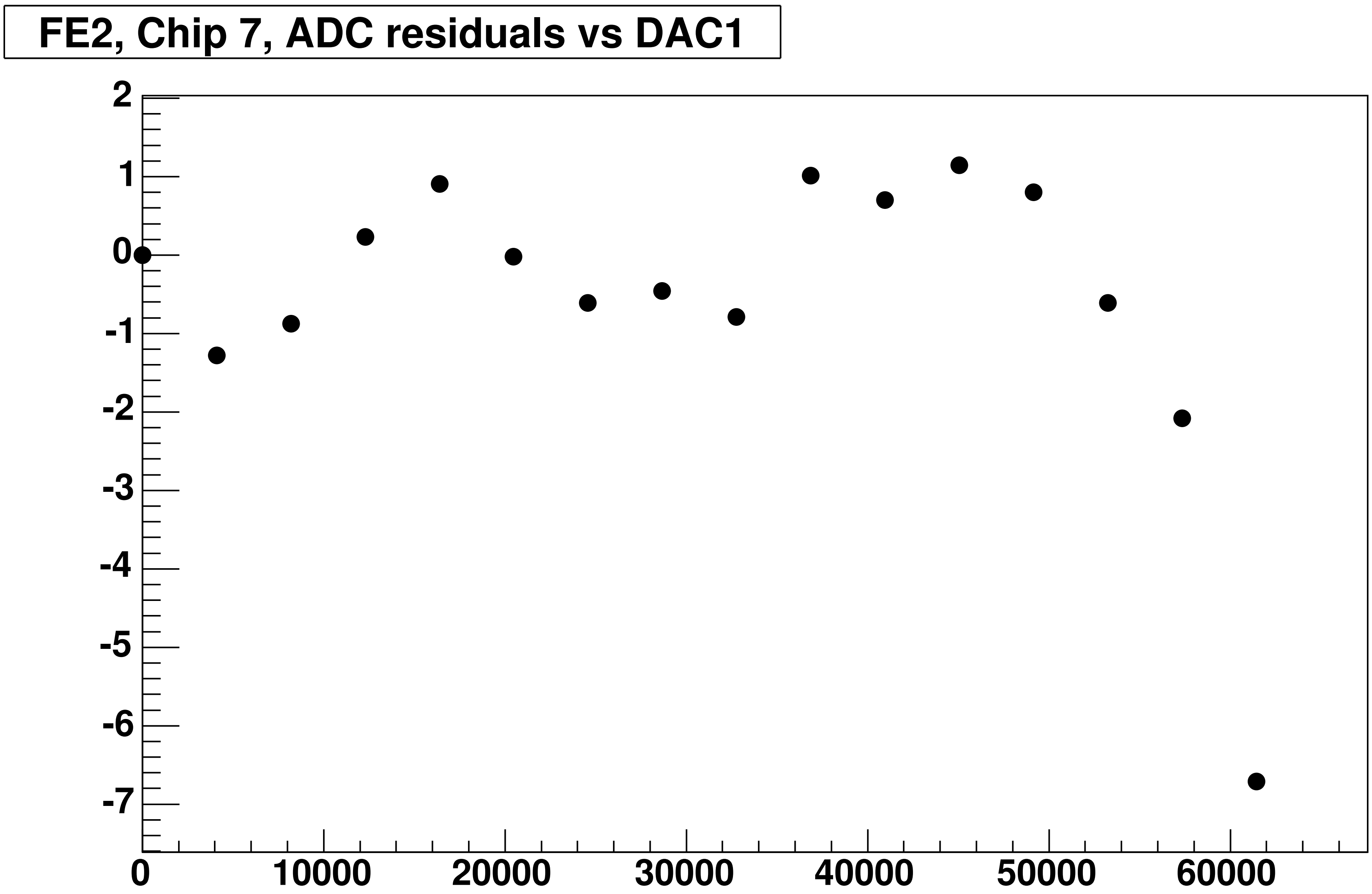
FE2, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



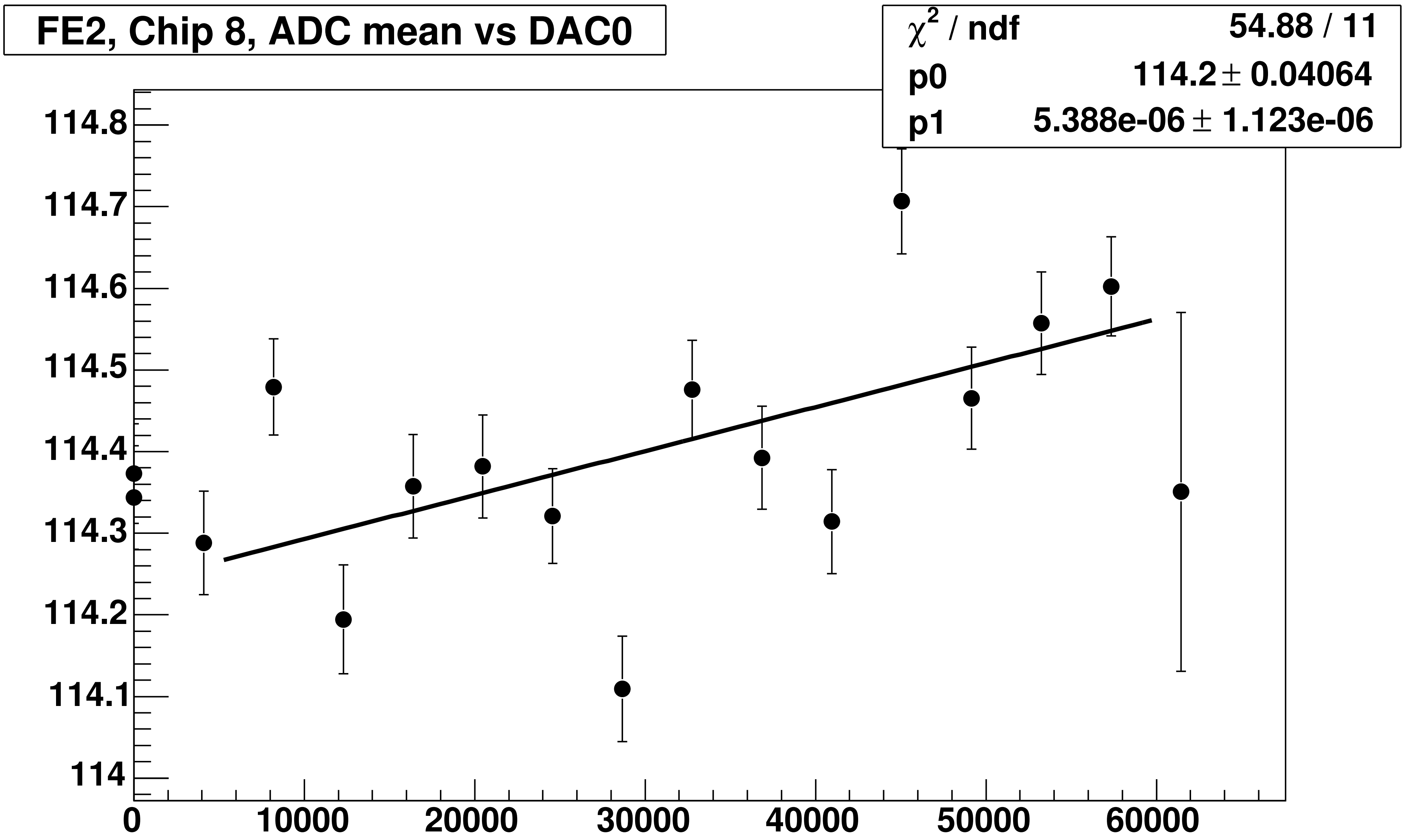
FE2, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1646 / 11
p0 128.4 ± 0.04206
p1 0.4497 ± 1.368e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



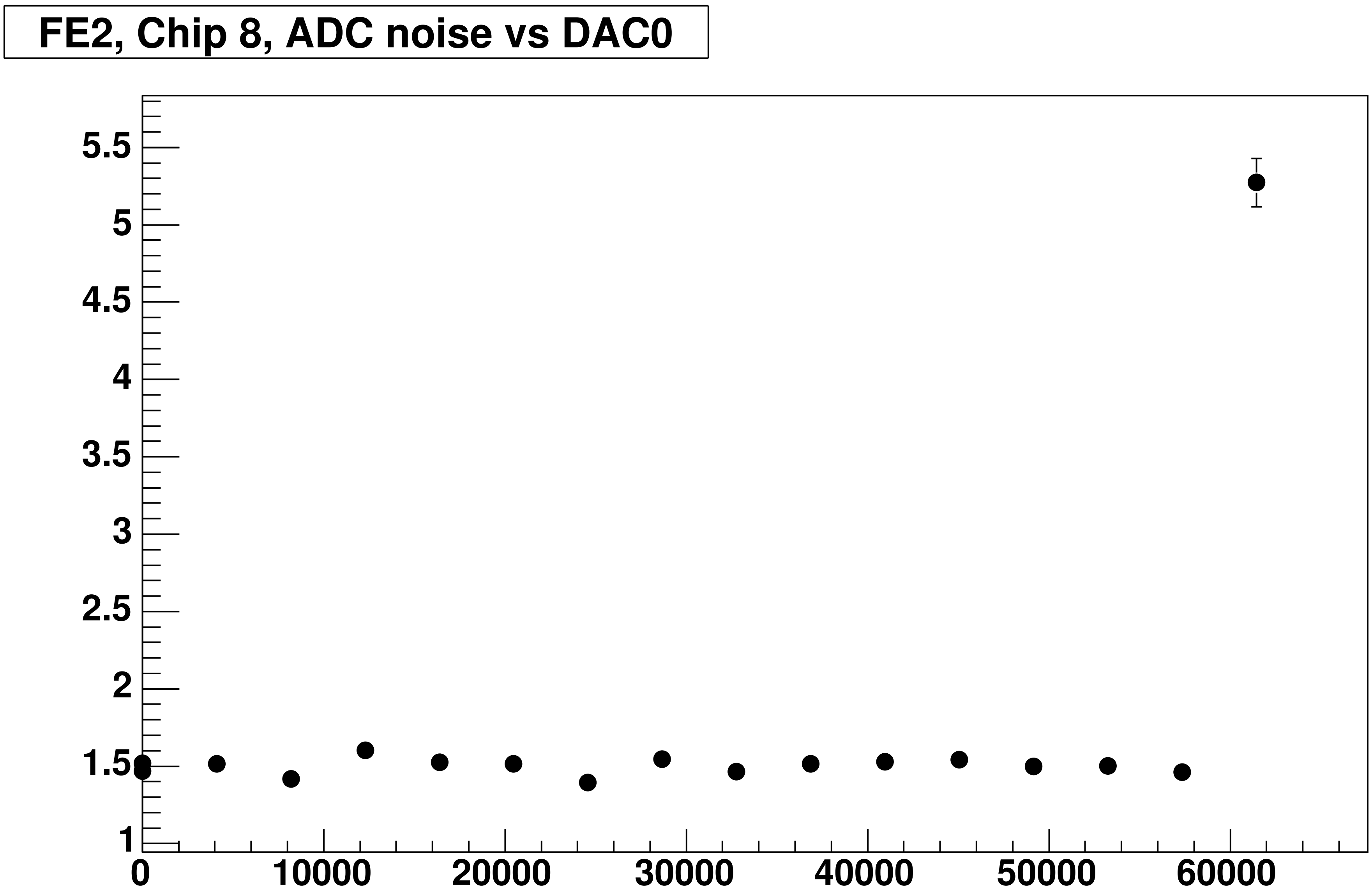
FE2, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



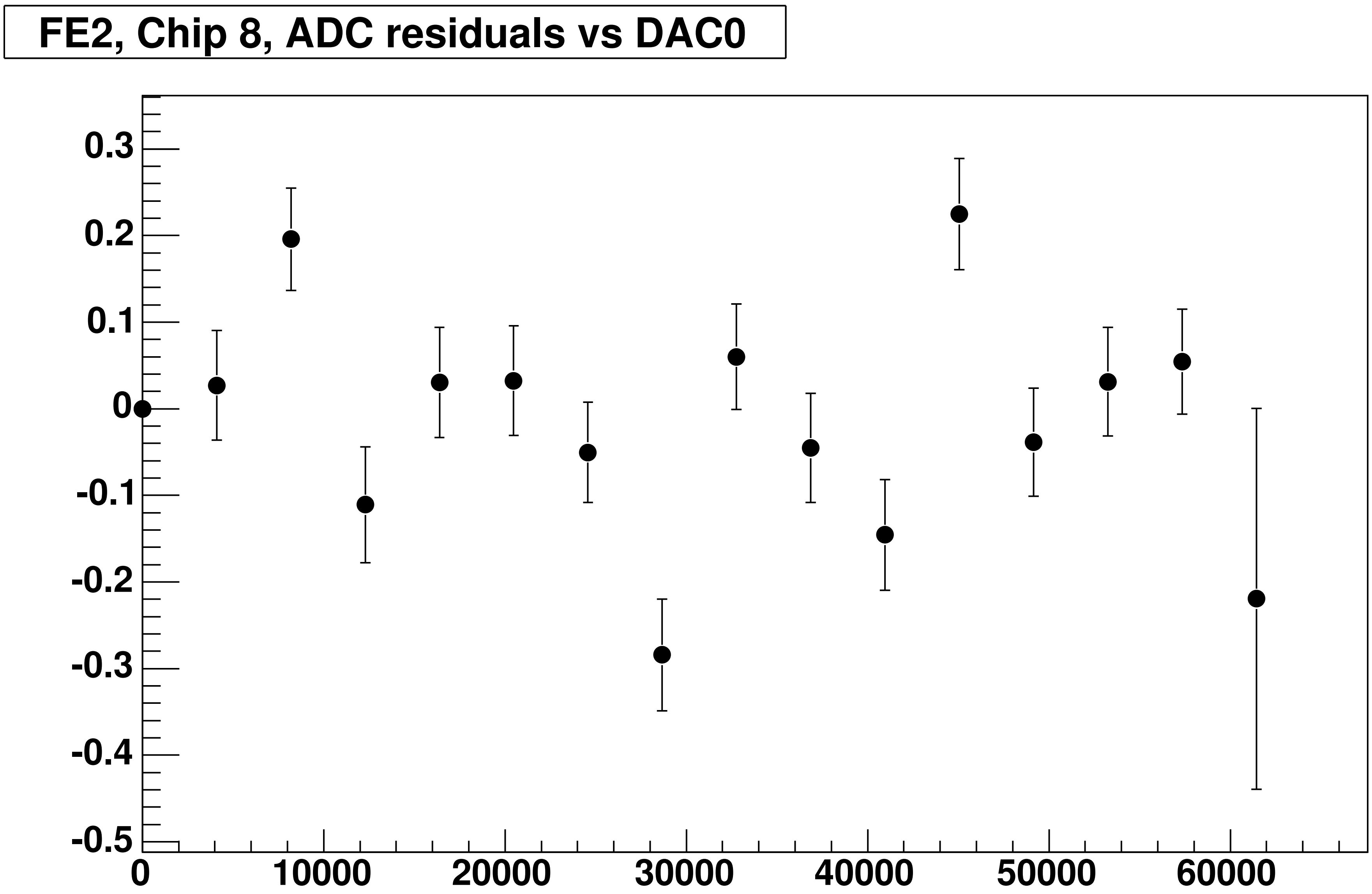
FE2, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000



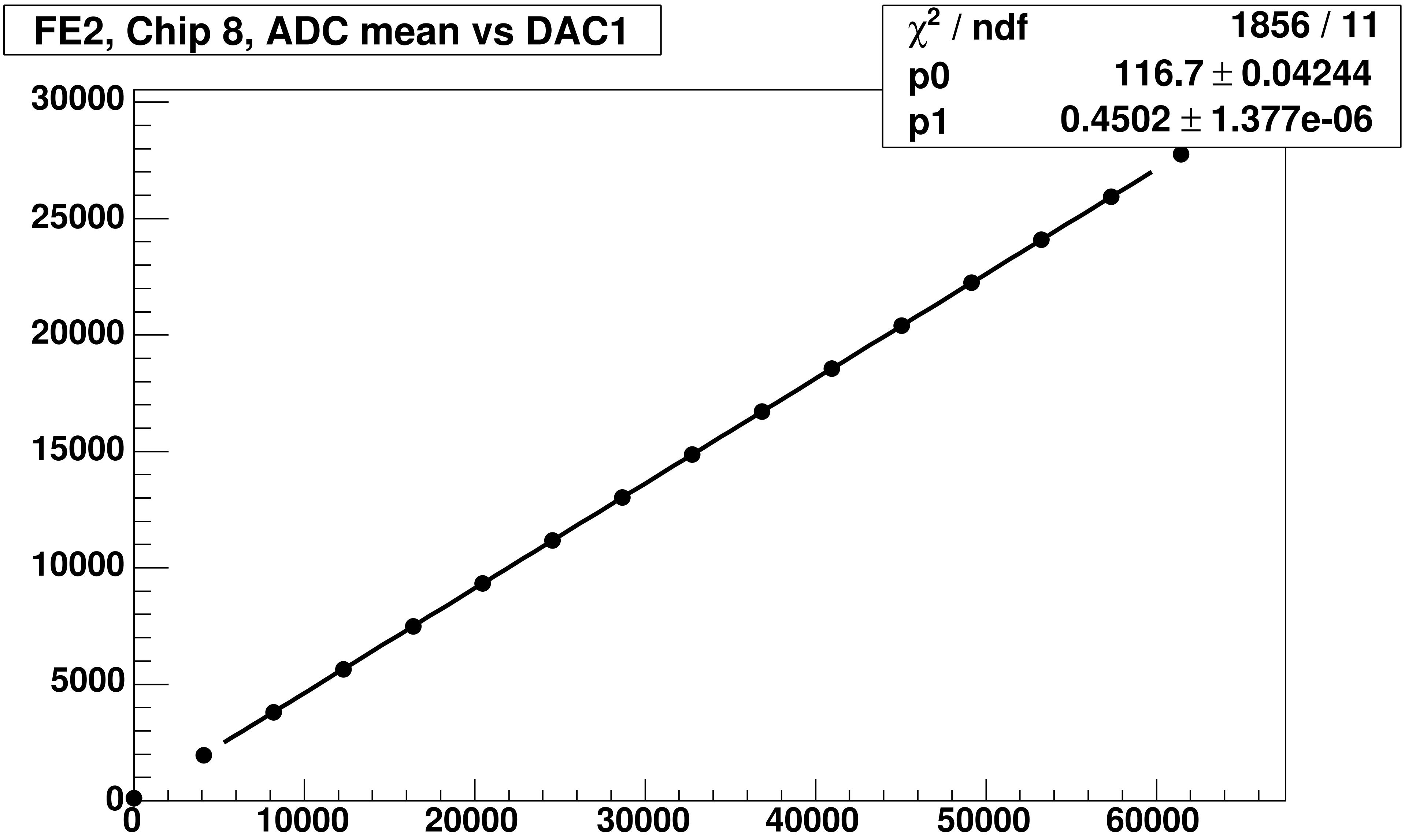
FE2, Chip 8, ADC mean vs DAC0
χ^2 / ndf 54.88 / 11
p0 114.2 ± 0.04064
p1 5.388e-06 ± 1.123e-06
114.8
114.7
114.6
114.5
114.4
114.3
114.2
114.1
114
0
10000
20000
30000
40000
50000
60000



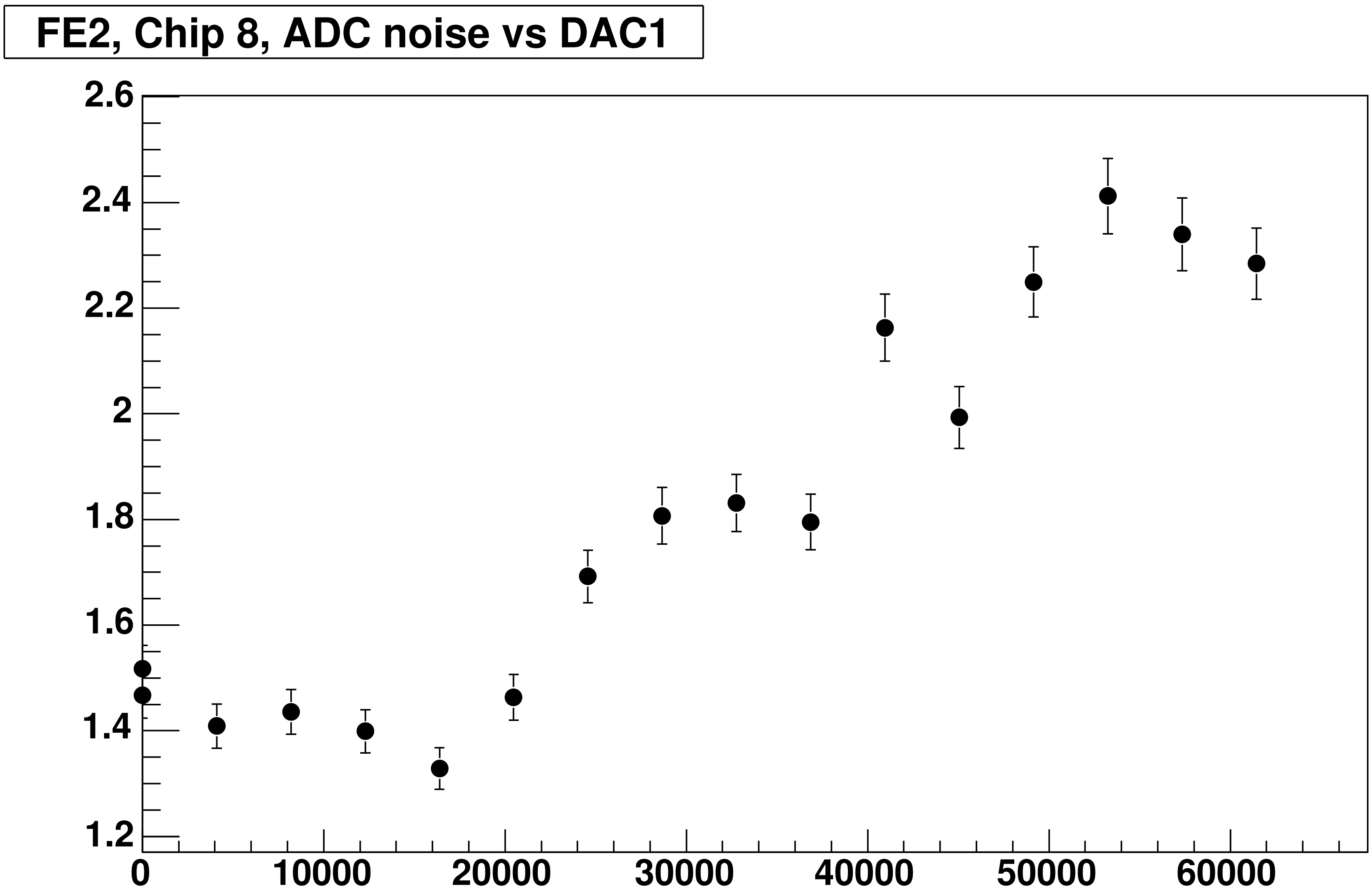
FE2, Chip 8, ADC noise vs DAC0
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0
10000
20000
30000
40000
50000
60000



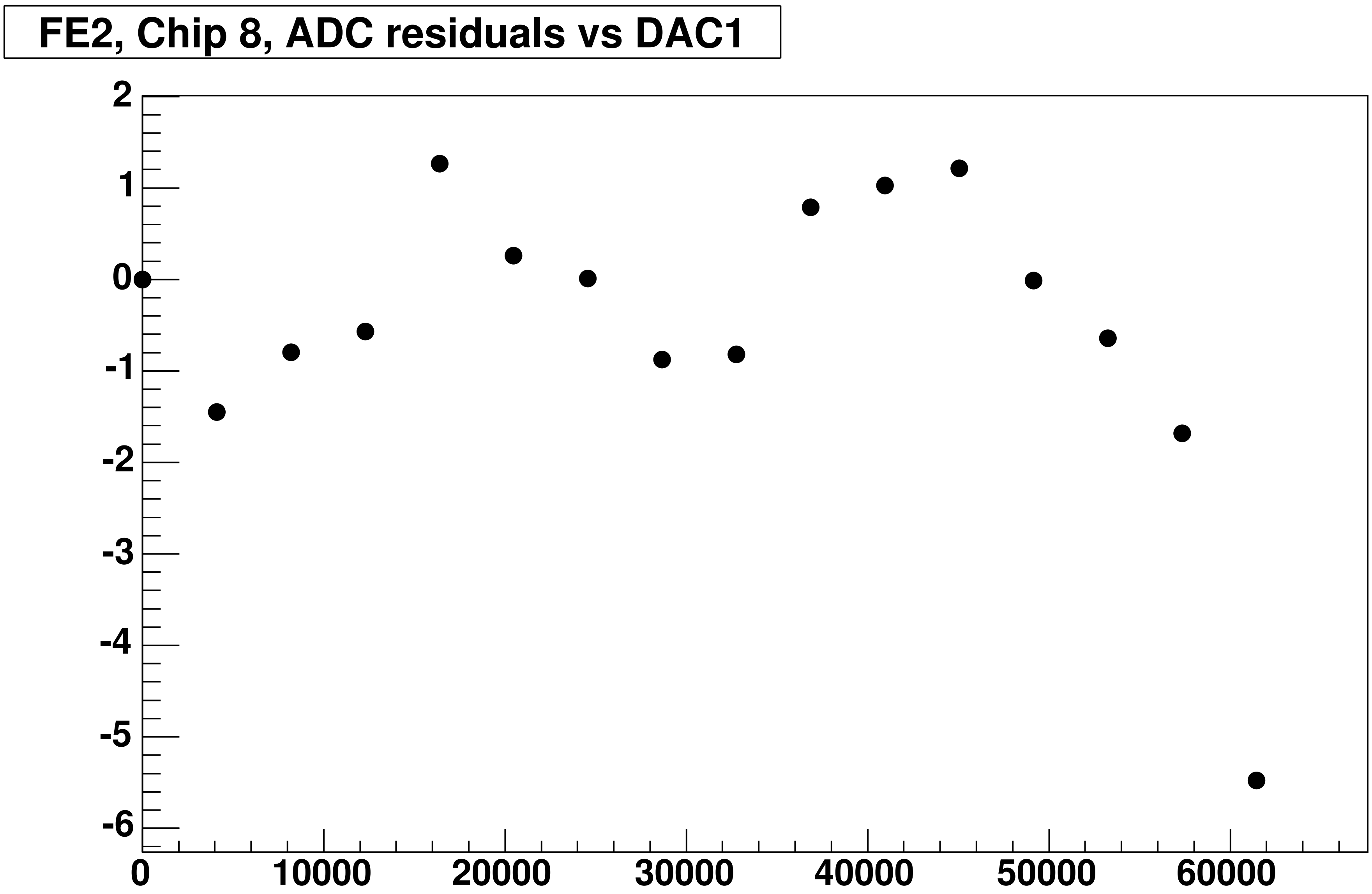
FE2, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000



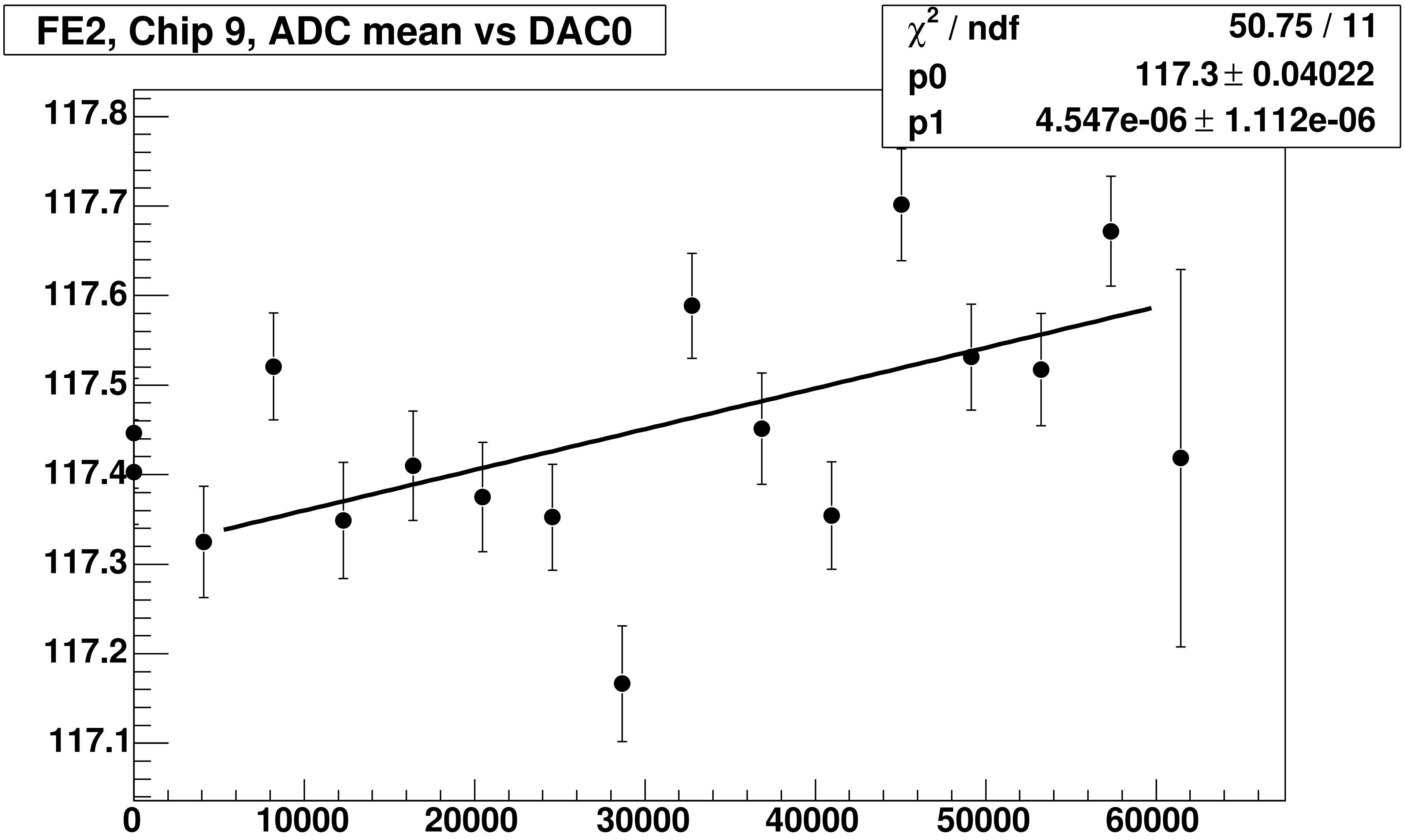
FE2, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1856 / 11
p0 116.7 ± 0.04244
p1 0.4502 ± 1.377e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



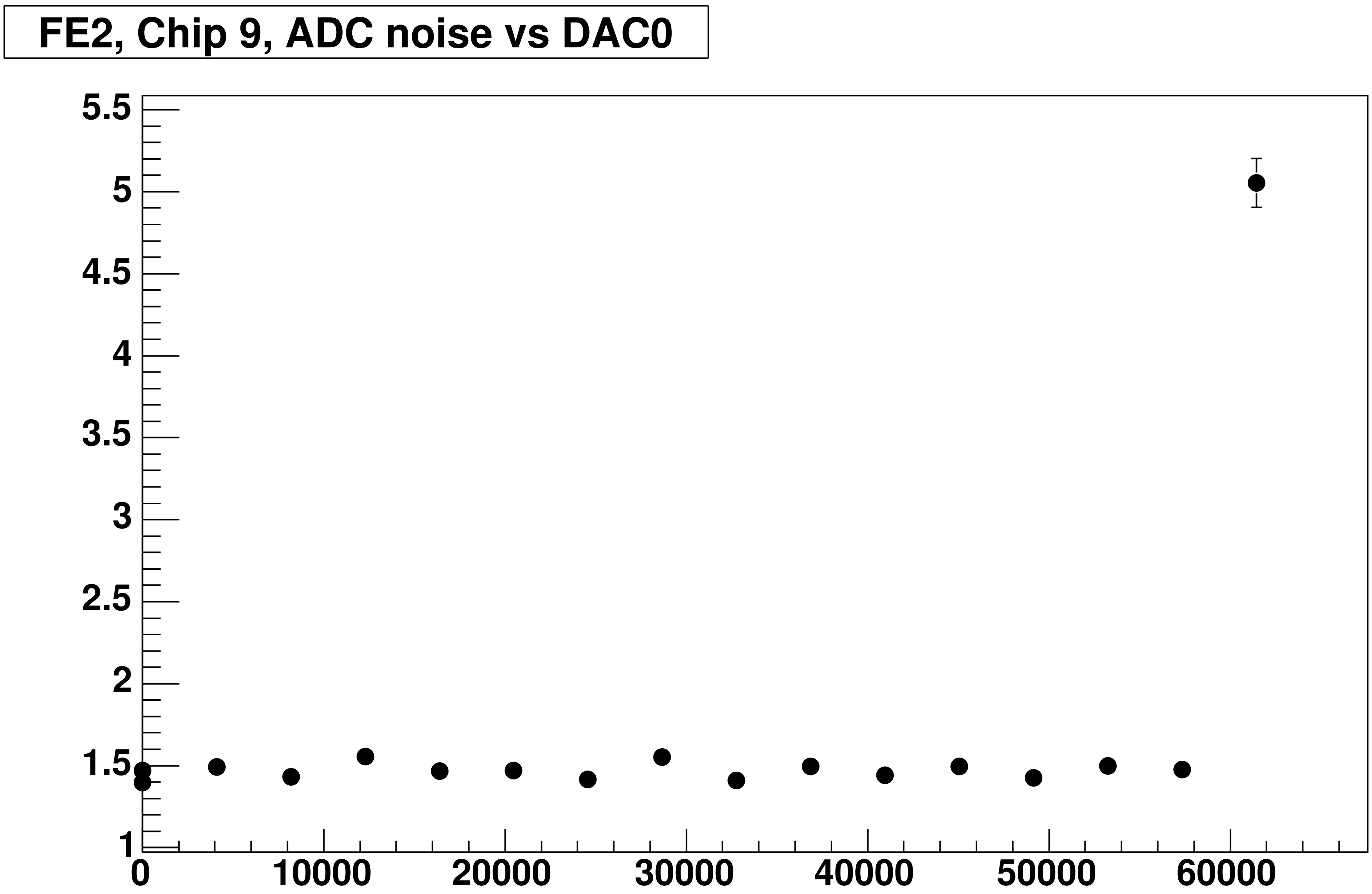
FE2, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

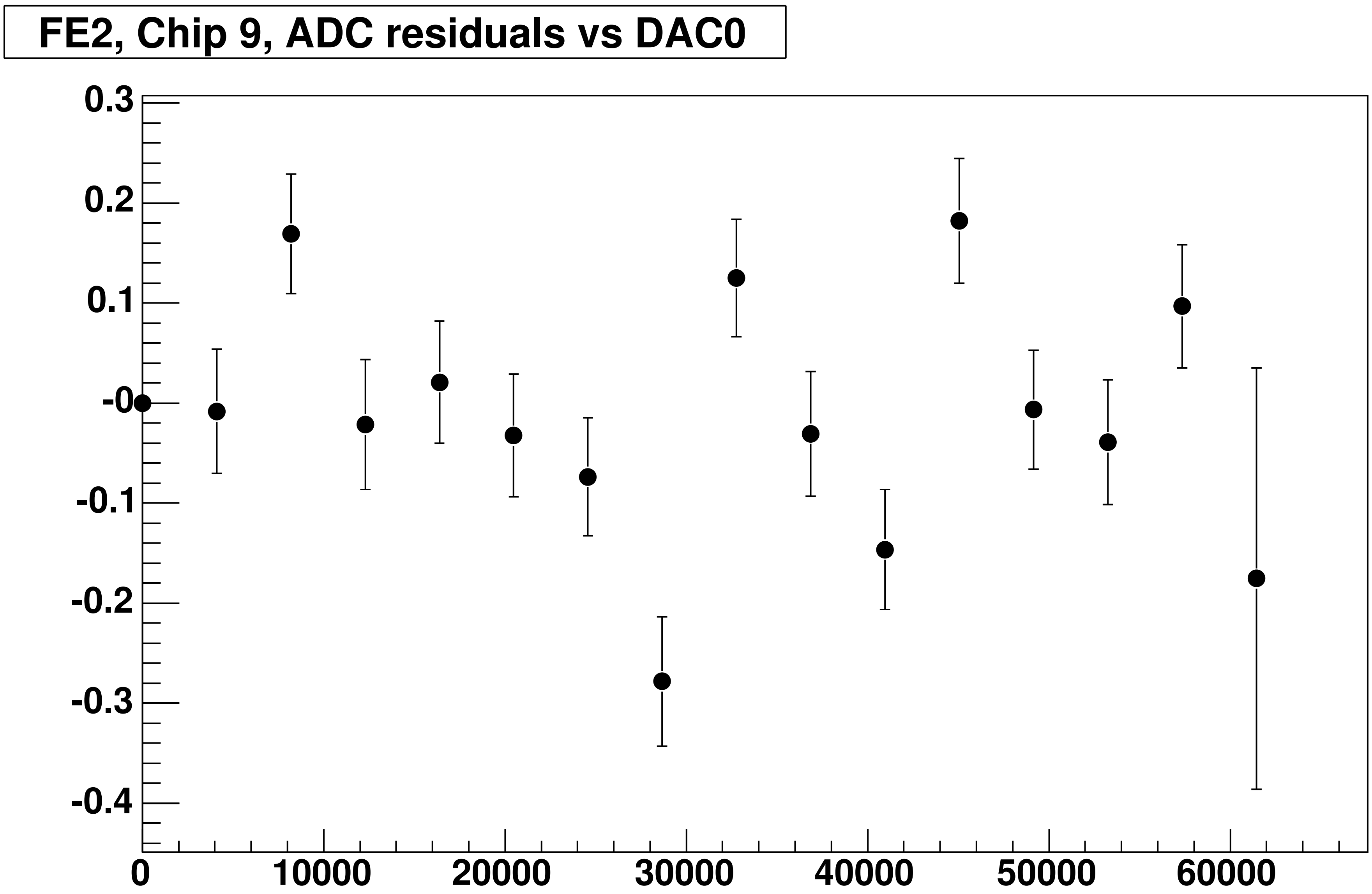


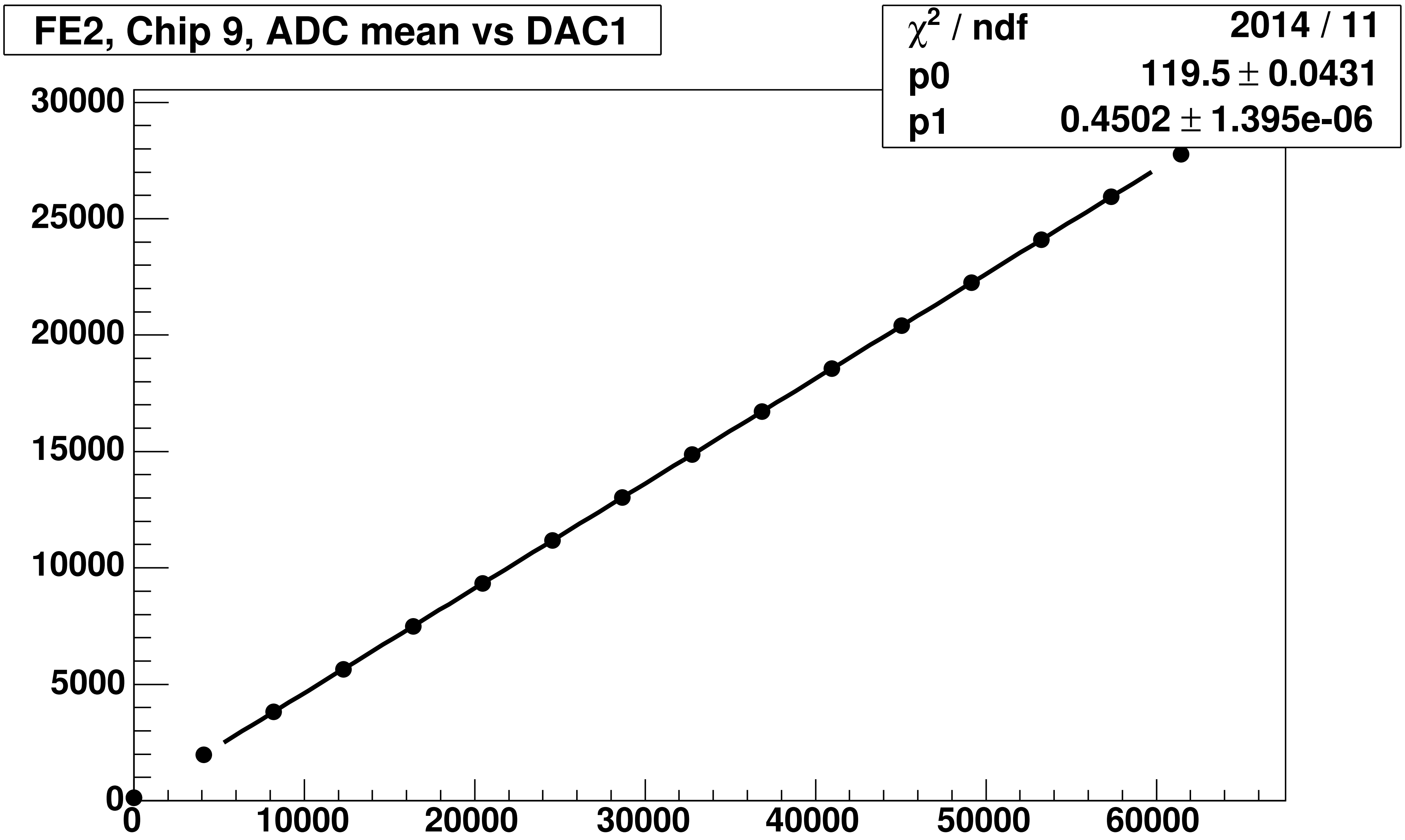
FE2, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

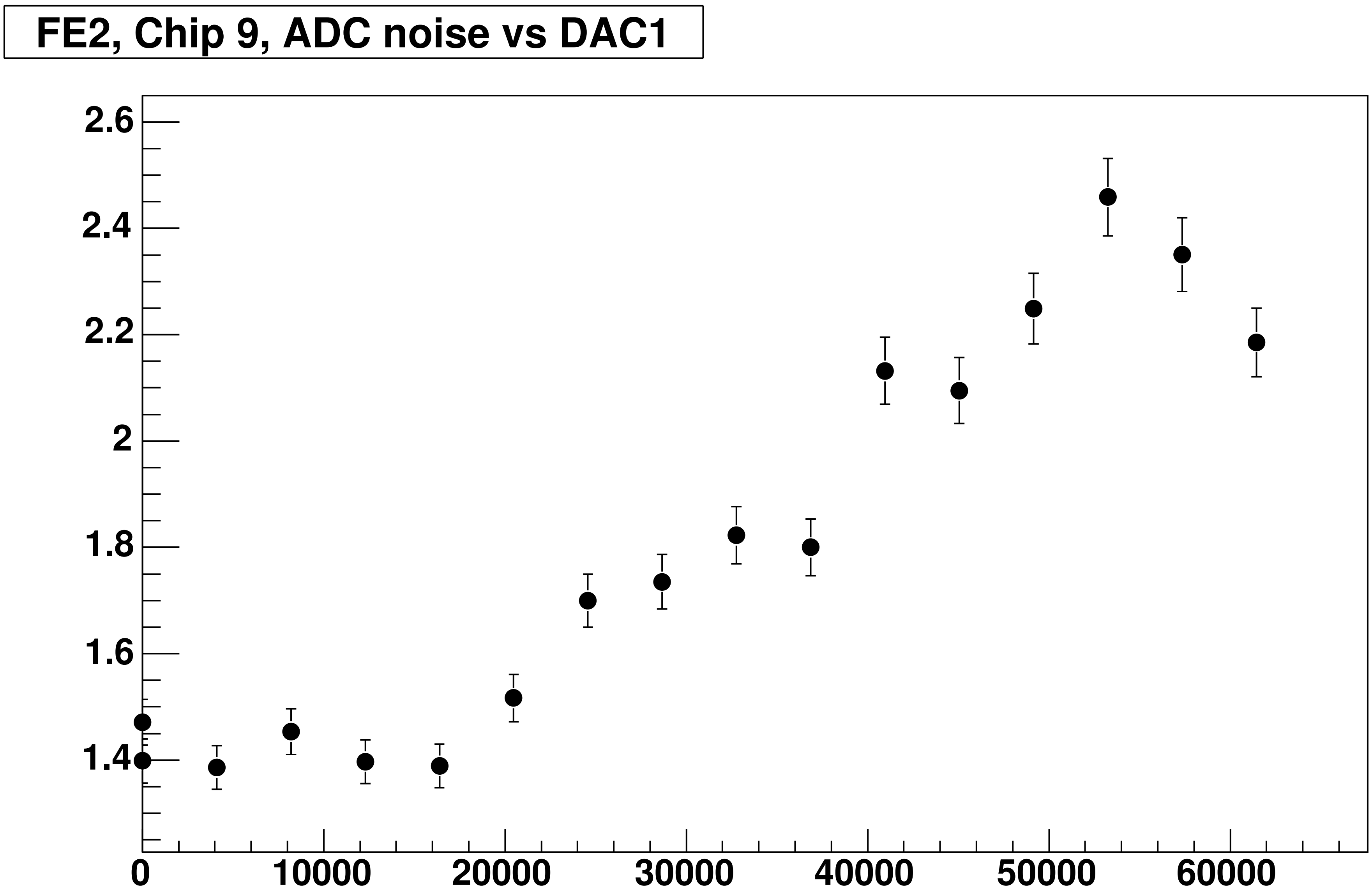


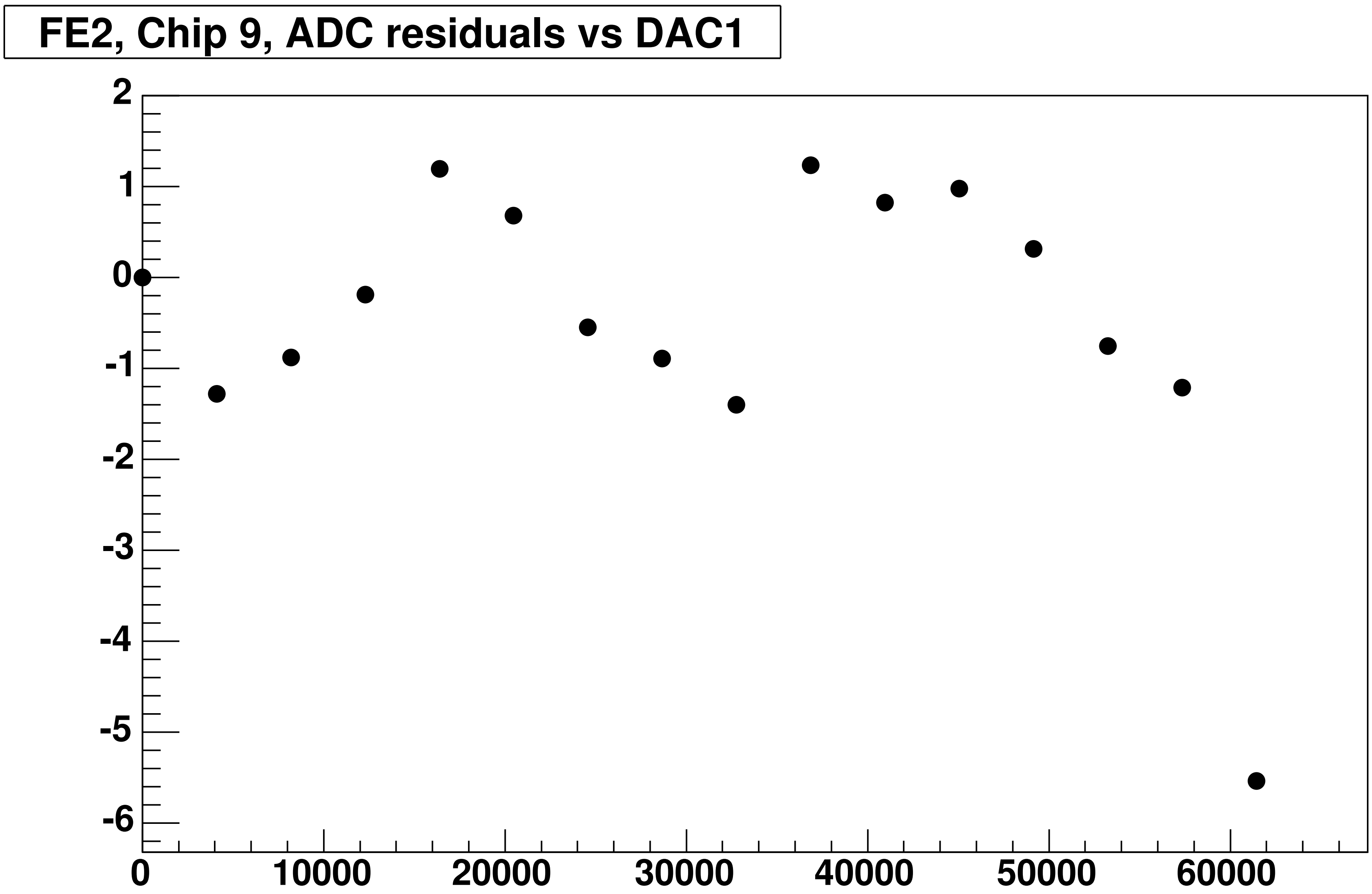
FE2, Chip 9, ADC mean vs DAC0
χ^2 / ndf 50.75 / 11
p0 117.3 ± 0.04022
p1 4.547e-06 ± 1.112e-06
117.8
117.7
117.6
117.5
117.4
117.3
117.2
117.1
0
10000
20000
30000
40000
50000
60000


FE2, Chip 9, ADC noise vs DAC0
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0
10000
20000
30000
40000
50000
60000

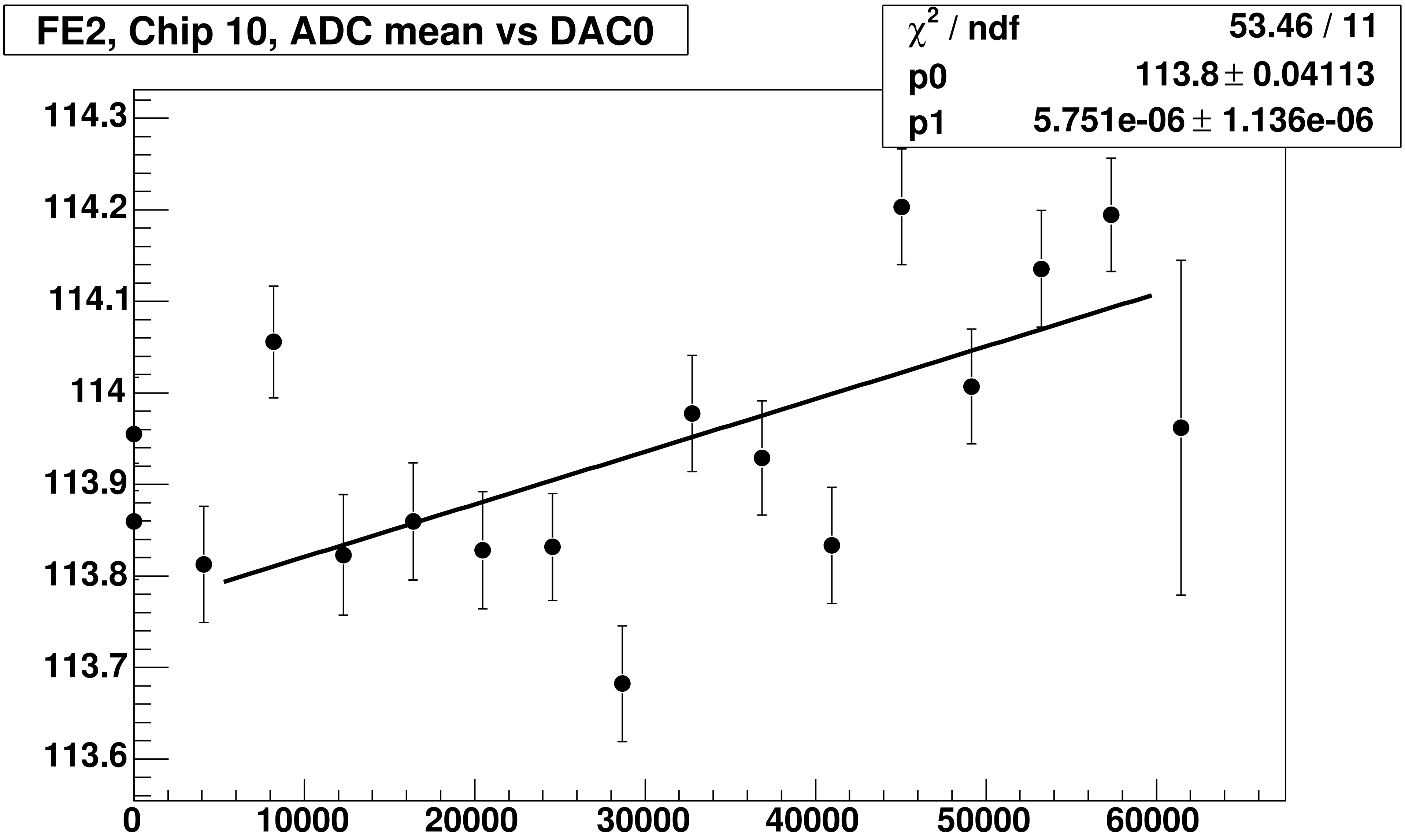

FE2, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000


FE2, Chip 9, ADC mean vs DAC1
χ2 / ndf 2014 / 11
p0 119.5 ± 0.0431
p1 0.4502 ± 1.395e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

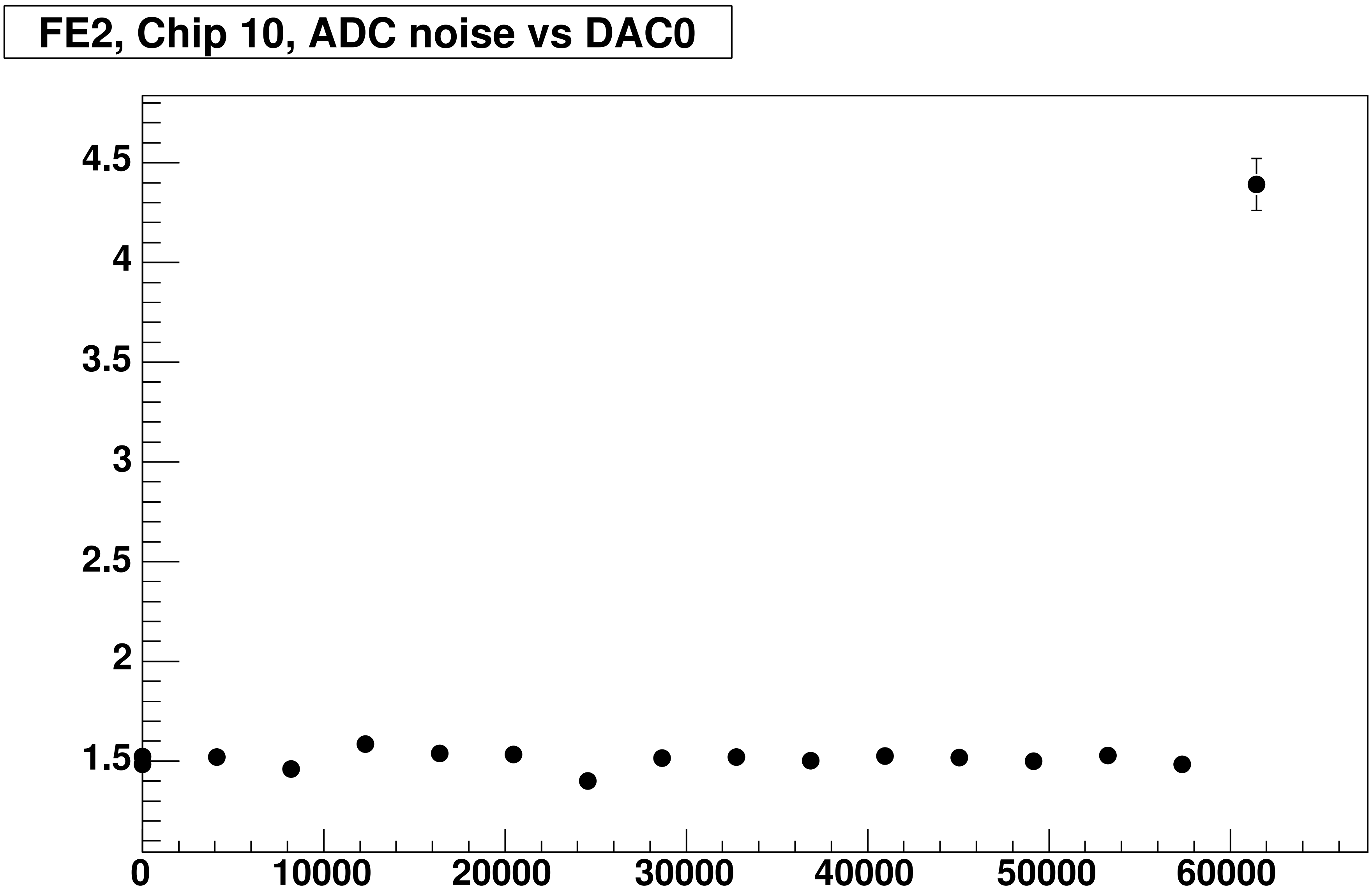

FE2, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

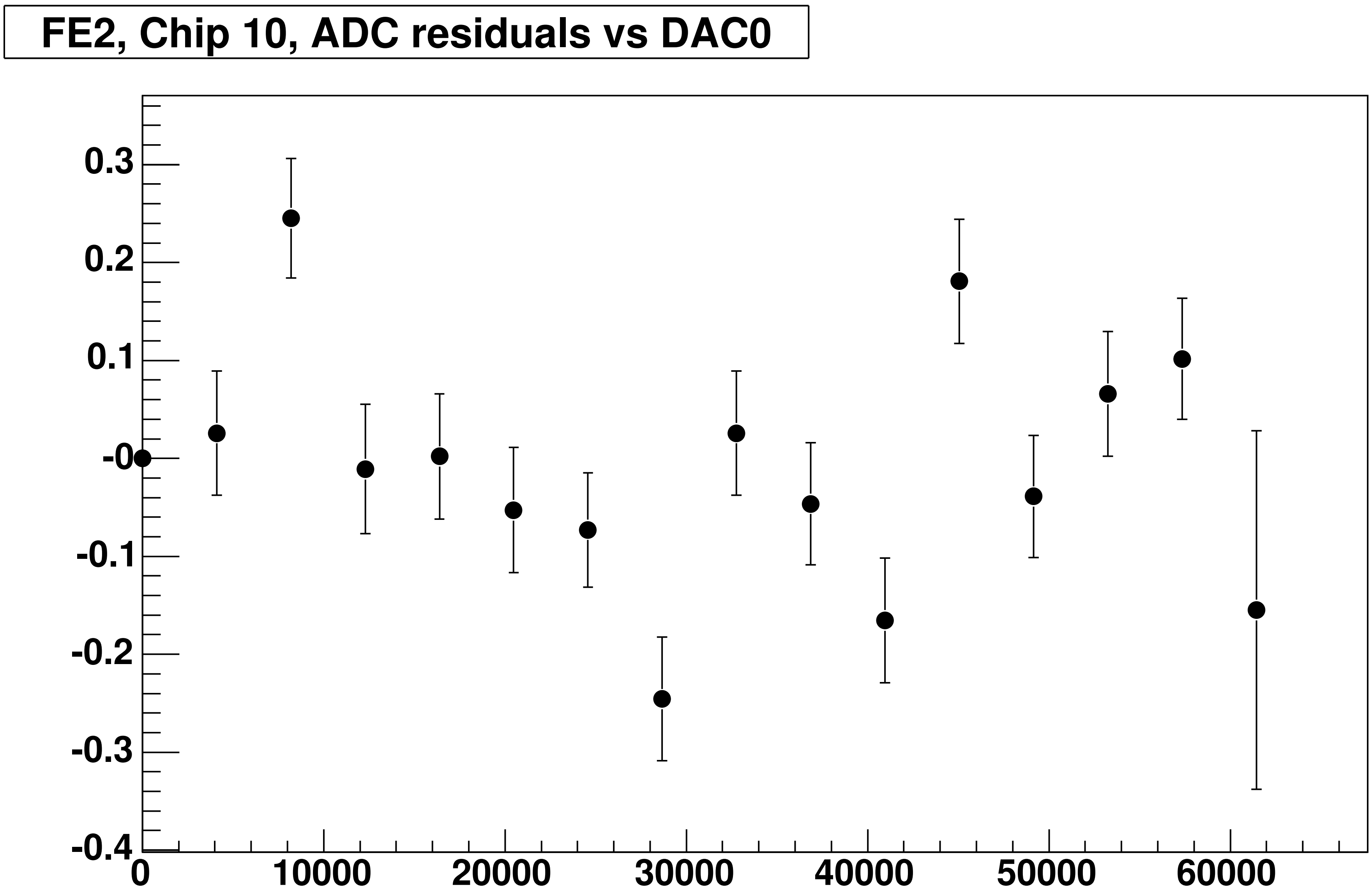


FE2, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

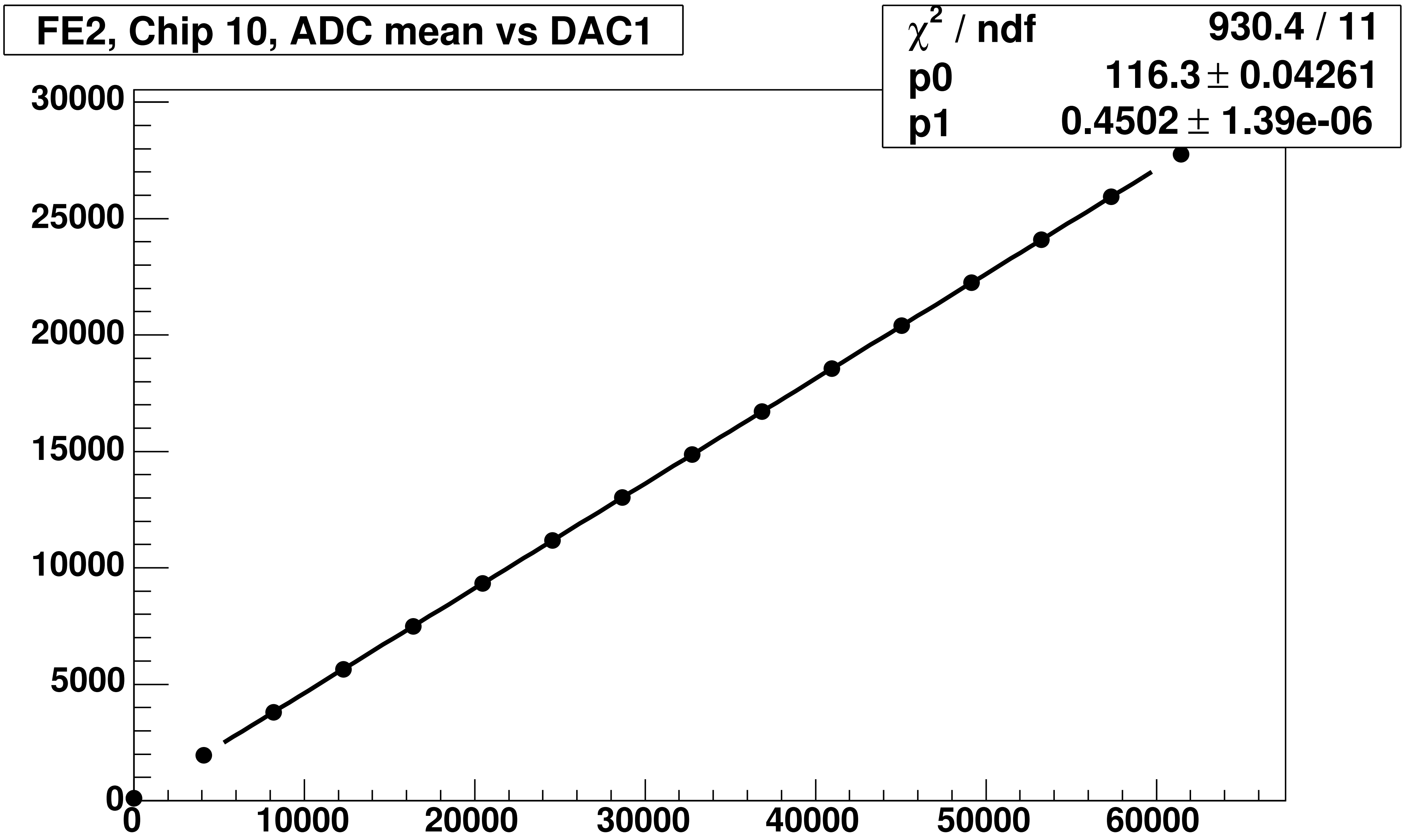


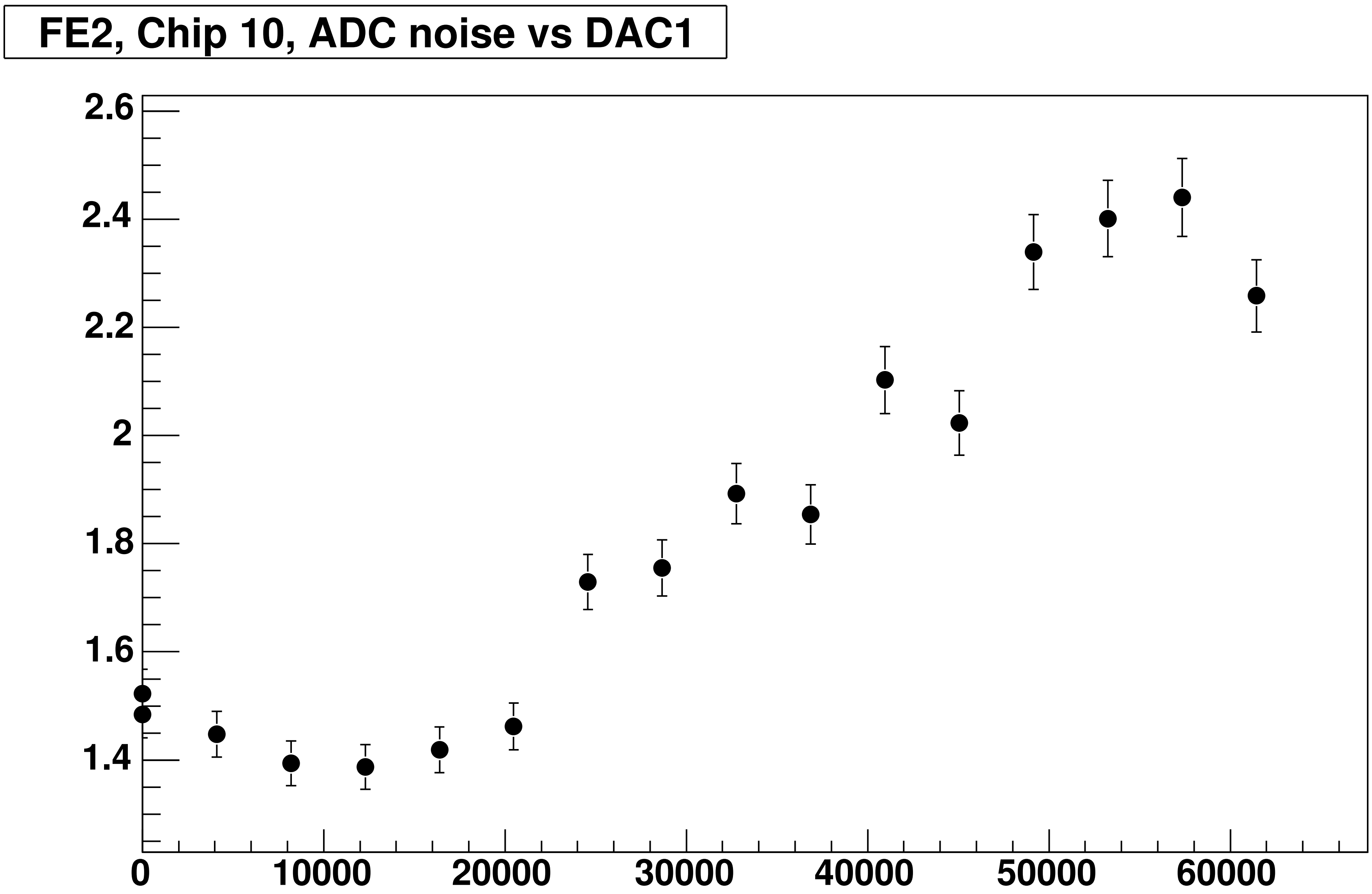
FE2, Chip 10, ADC mean vs DAC0
χ² / ndf 53.46 / 11
p0 113.8 ± 0.04113
p1 5.751e-06 ± 1.136e-06
114.3
114.2
114.1
114
113.9
113.8
113.7
113.6
0
10000
20000
30000
40000
50000
60000


FE2, Chip 10, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

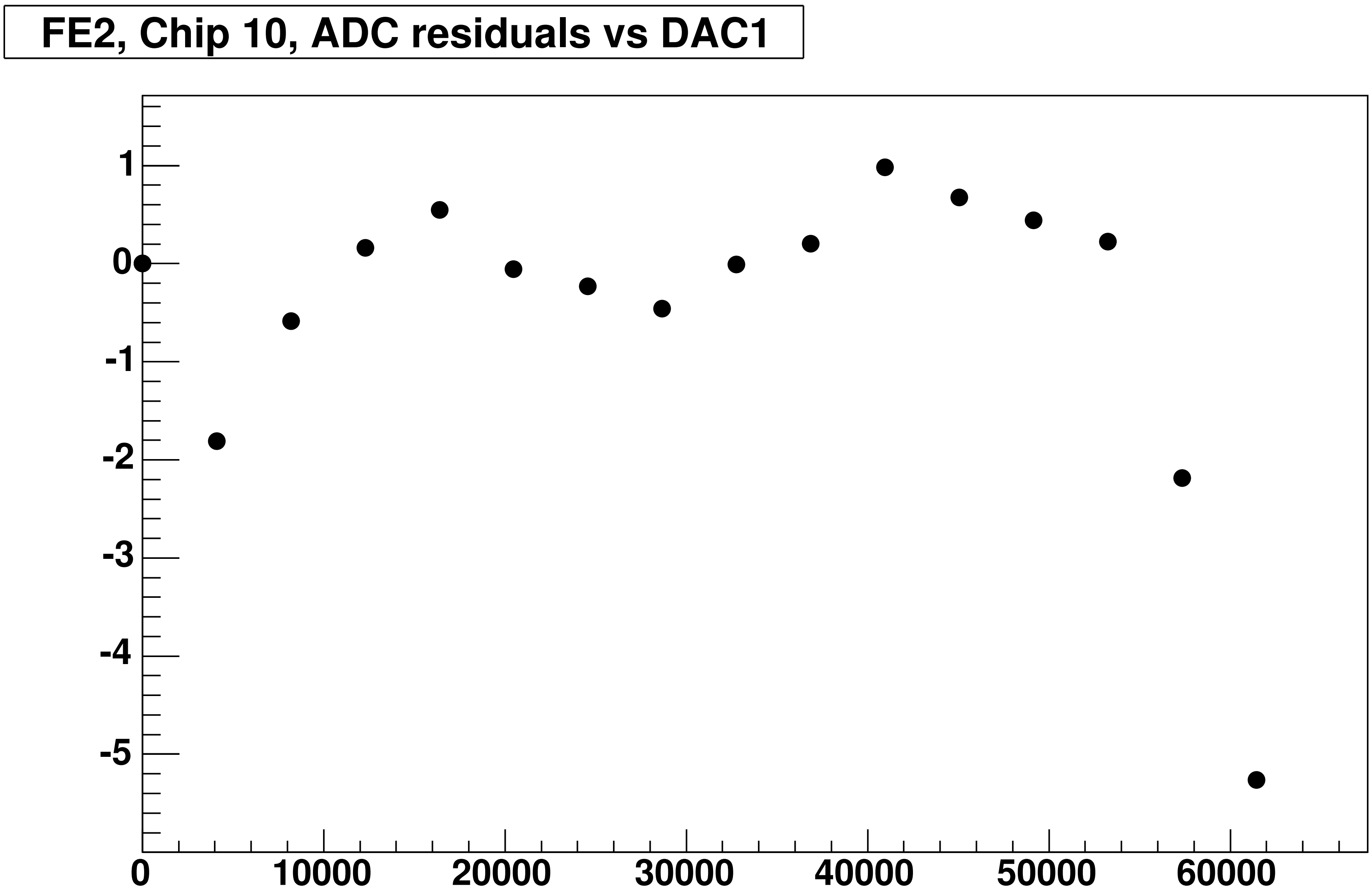


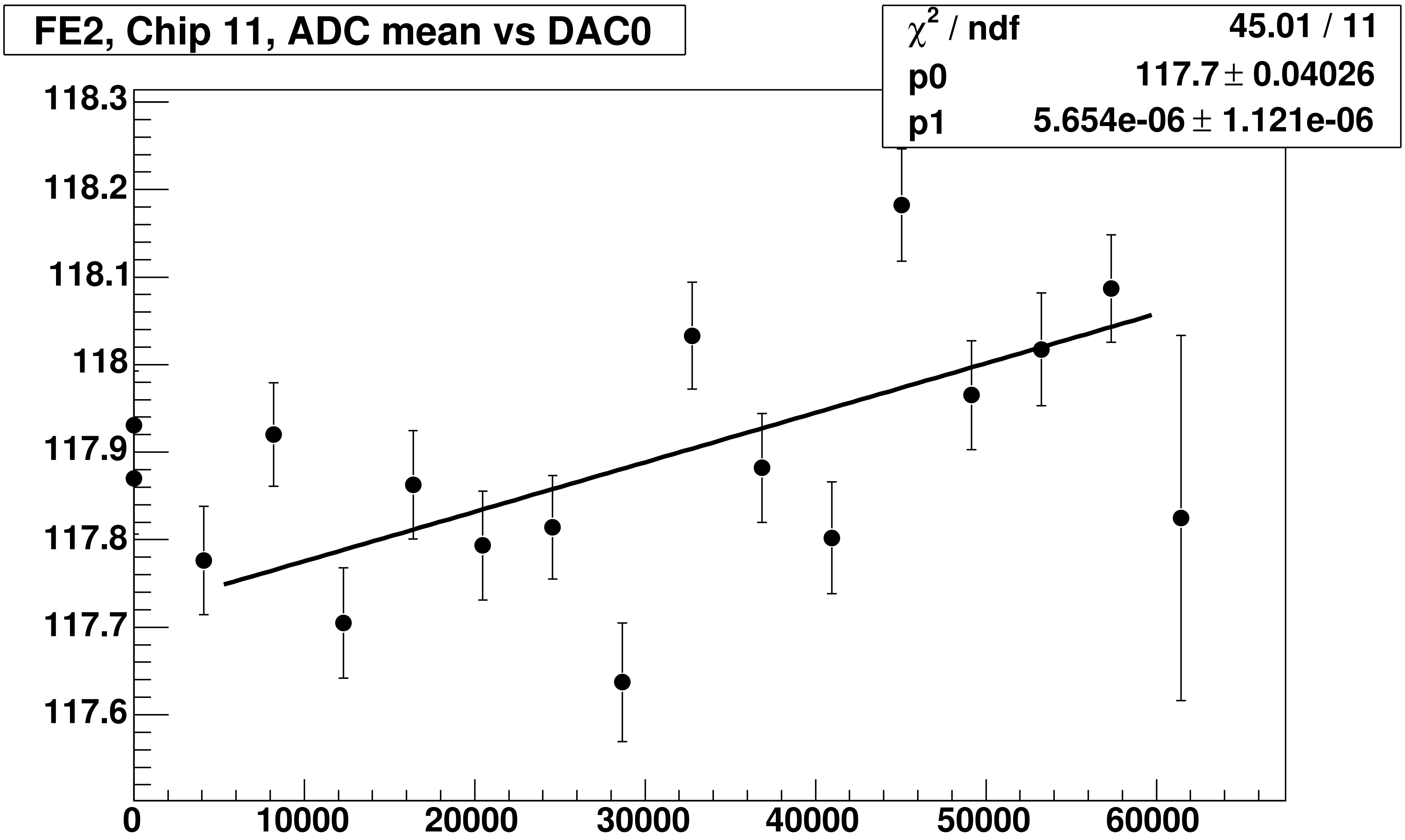
FE2, Chip 10, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000


FE2, Chip 10, ADC mean vs DAC1
χ^2 / ndf 930.4 / 11
p0 116.3 ± 0.04261
p1 0.4502 ± 1.39e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

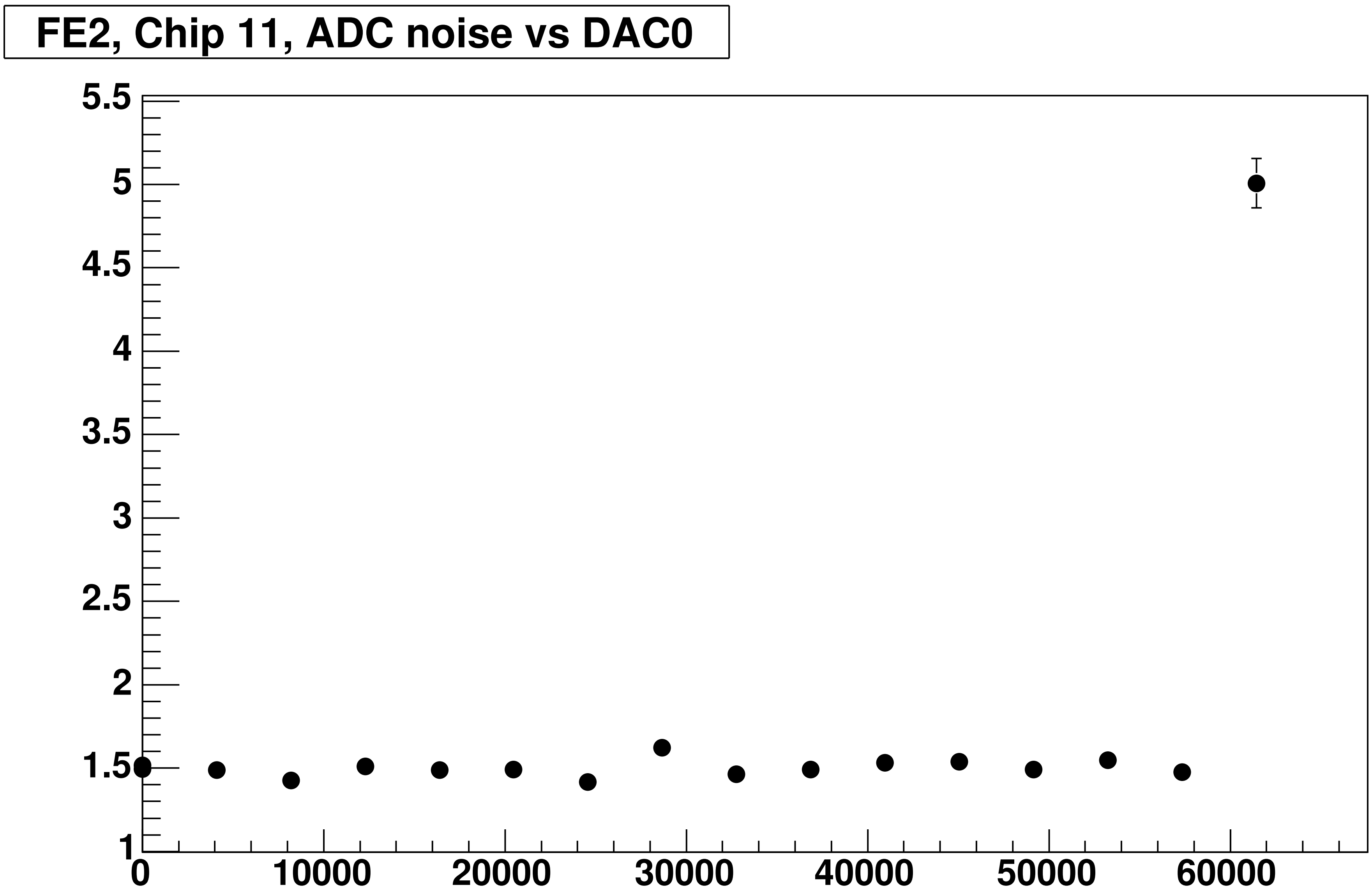


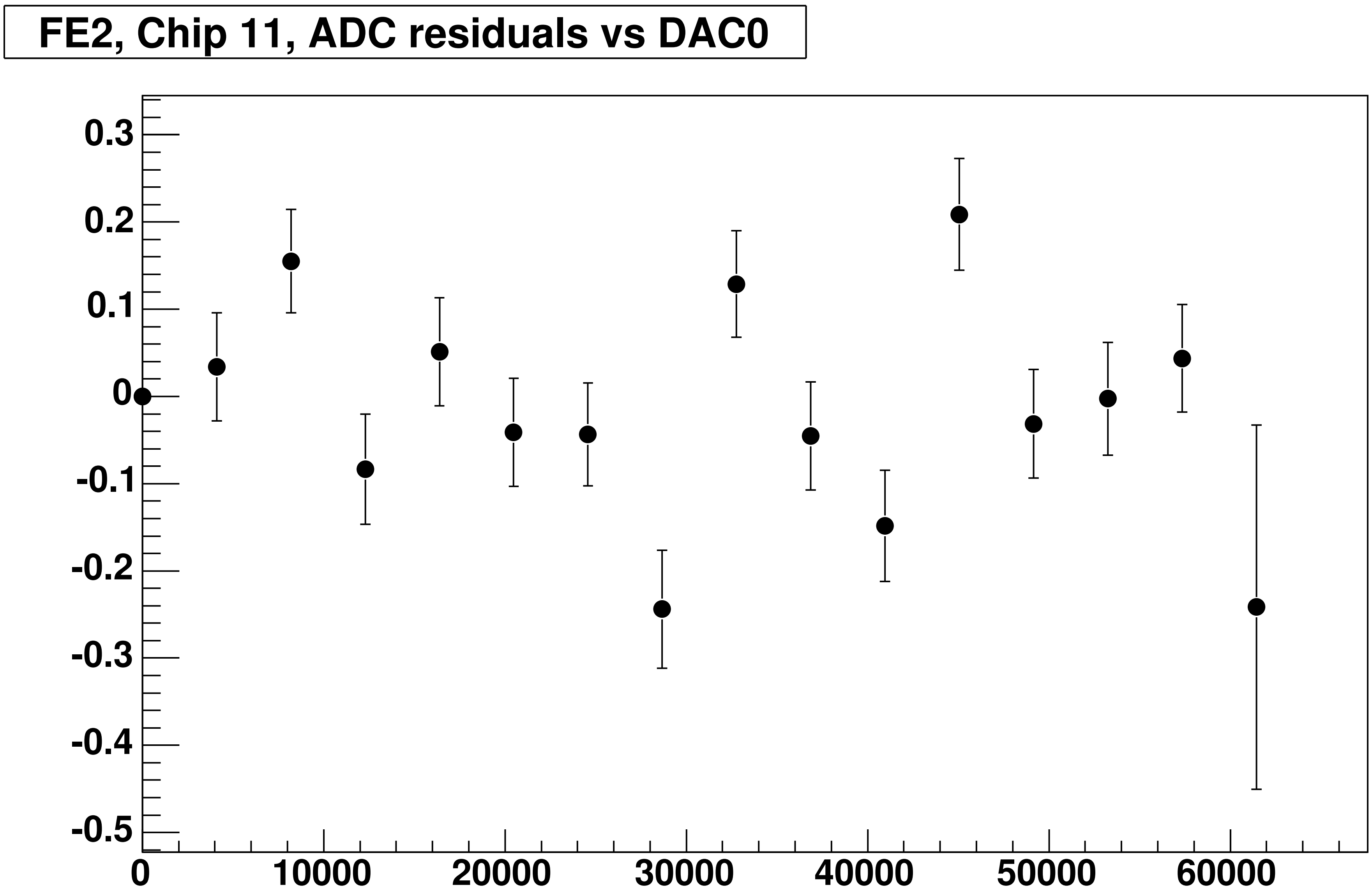
FE2, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

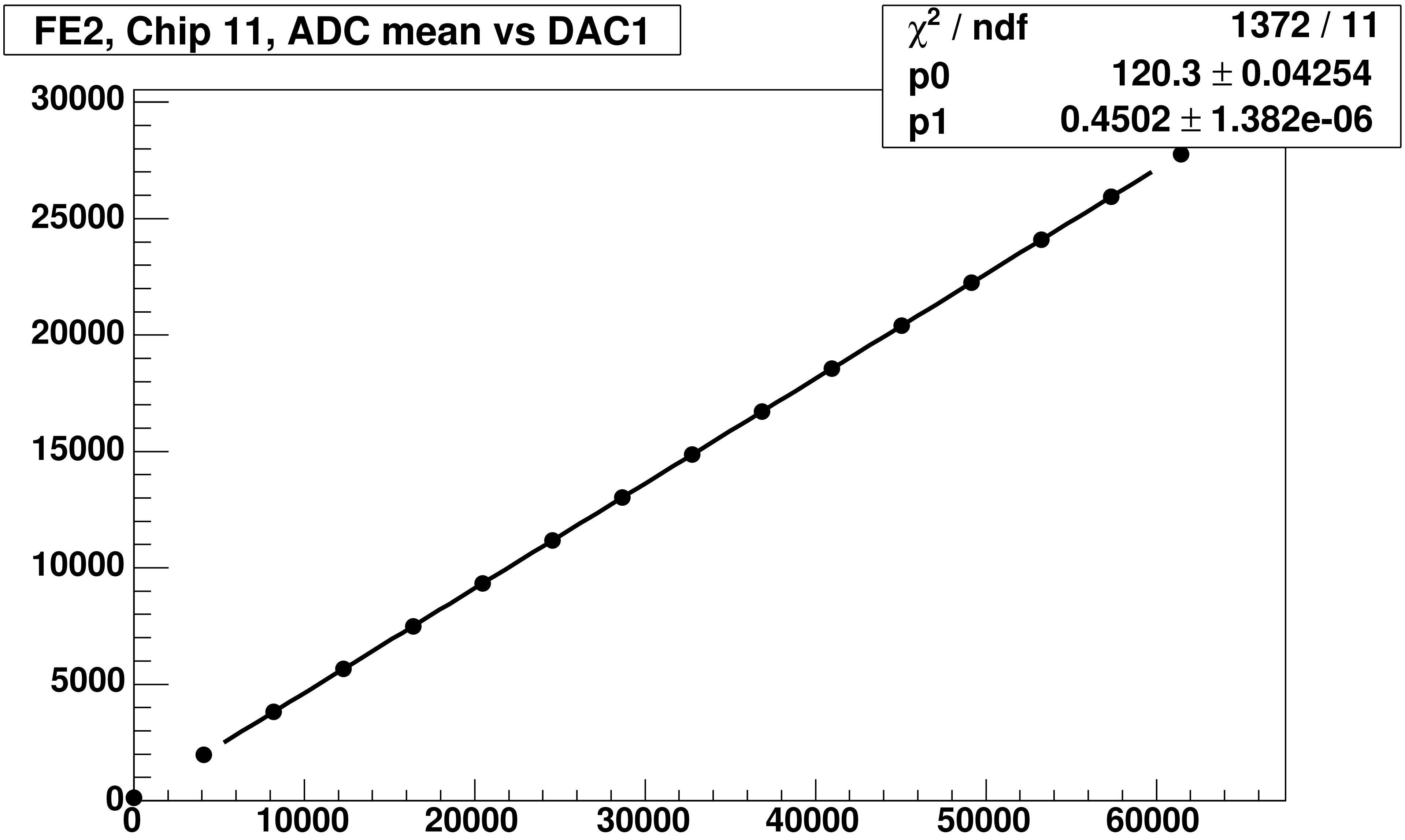


FE2, Chip 11, ADC mean vs DAC0
χ^2 / ndf 45.01 / 11
p0 117.7 ± 0.04026
p1 5.654e-06 ± 1.121e-06
118.3
118.2
118.1
118
117.9
117.8
117.7
117.6
0
10000
20000
30000
40000
50000
60000

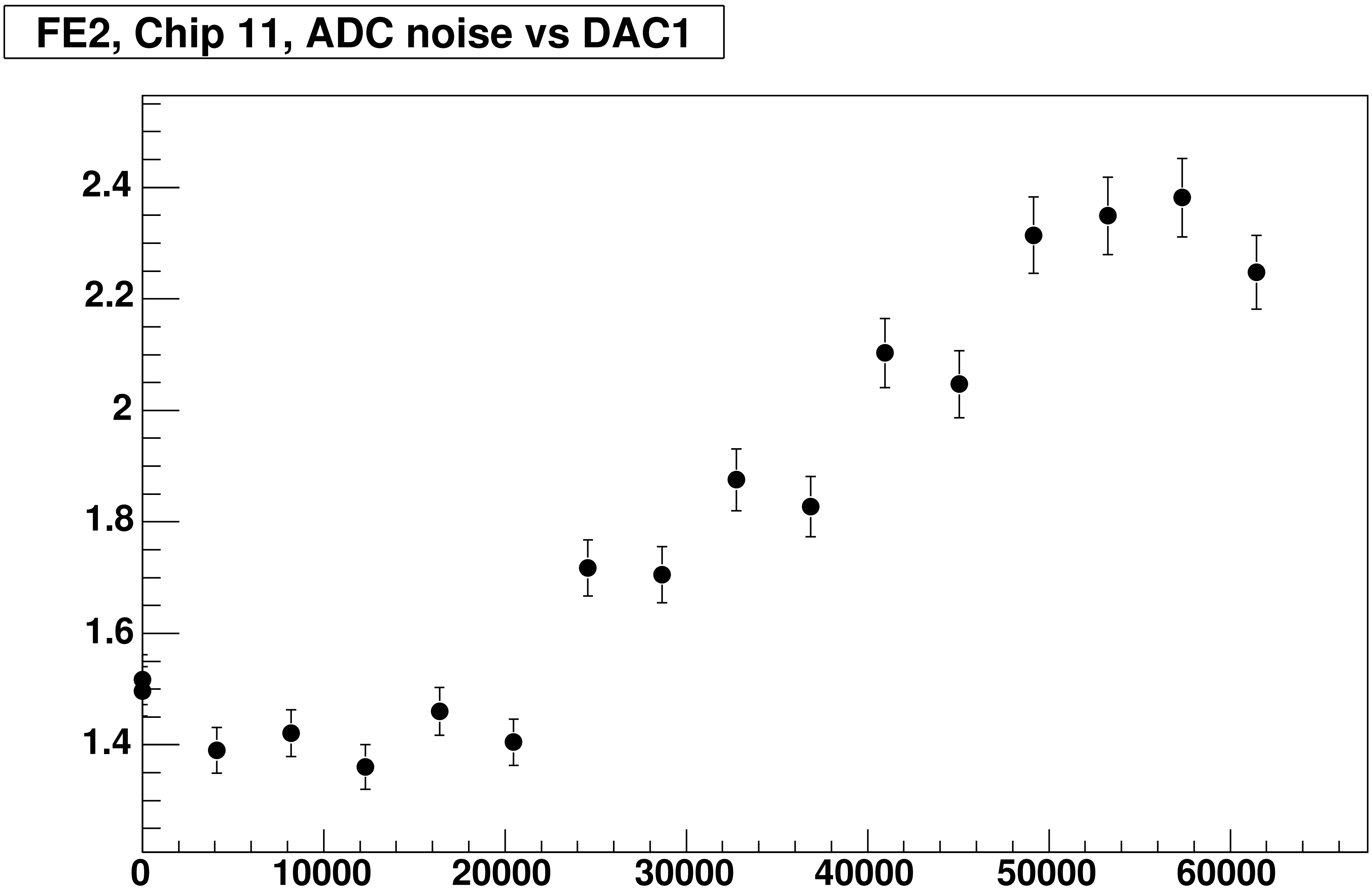

FE2, Chip 11, ADC noise vs DAC0
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0
10000
20000
30000
40000
50000
60000

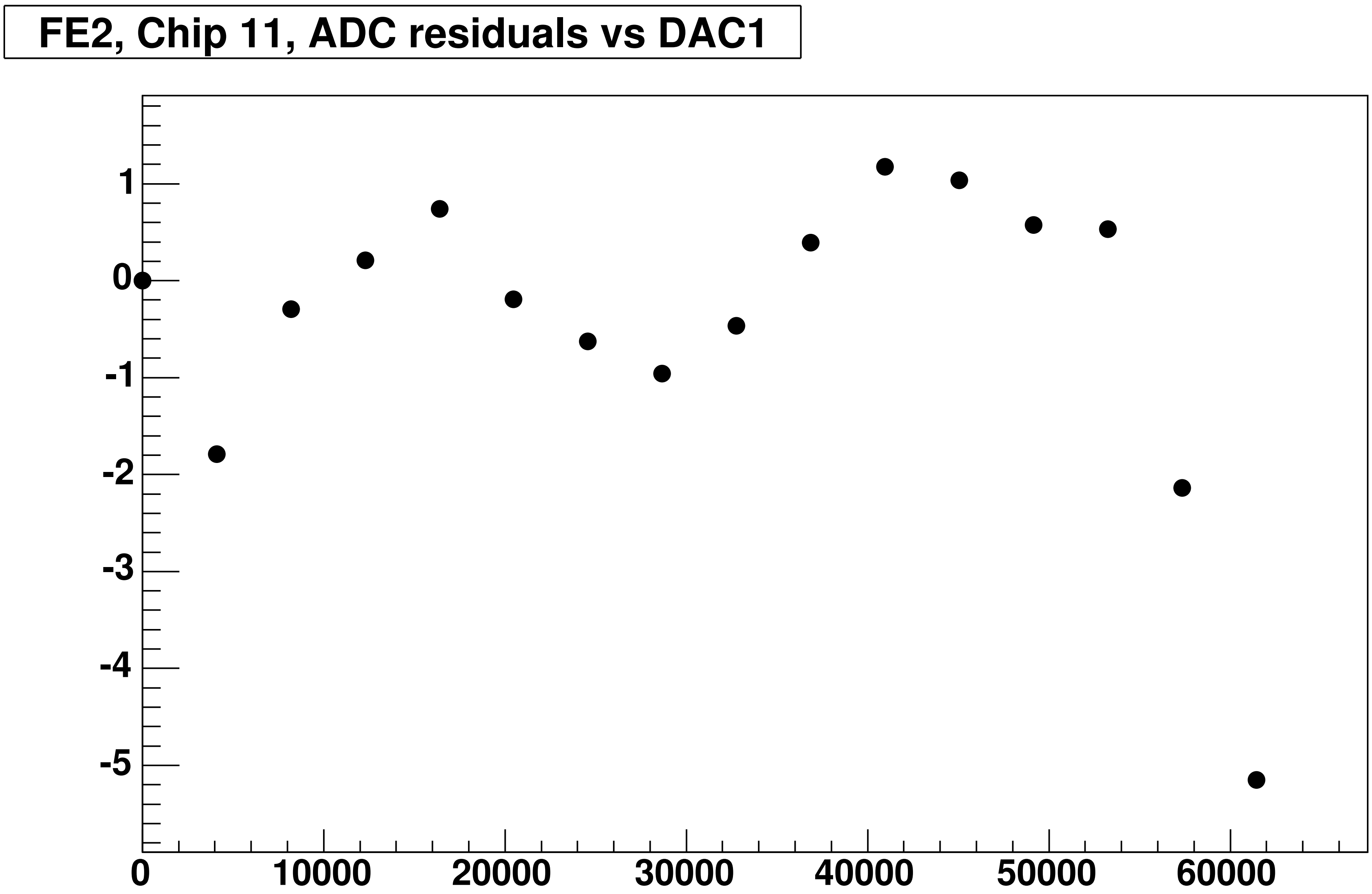


FE2, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

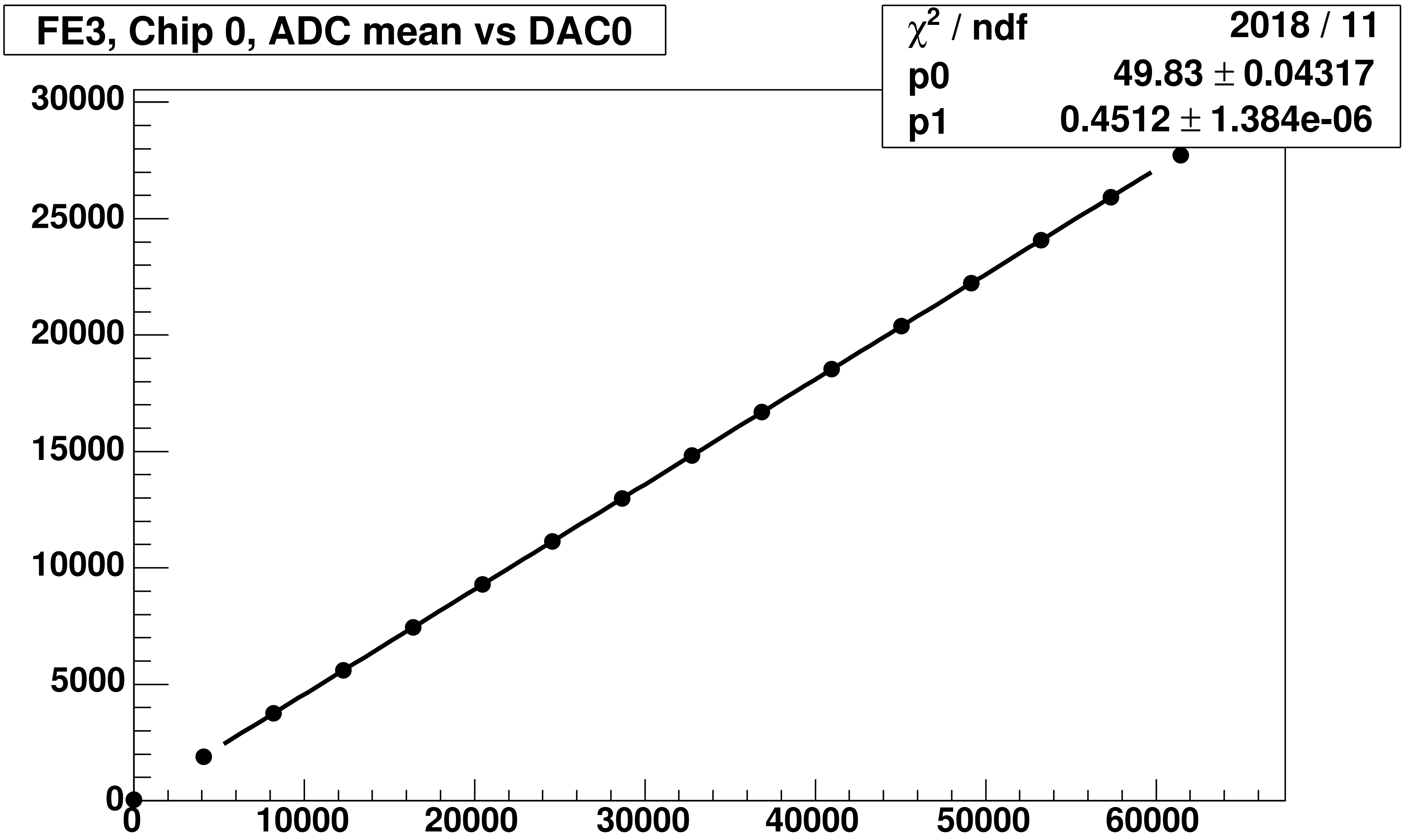


FE2, Chip 11, ADC mean vs DAC1
χ² / ndf 1372 / 11
p0 120.3 ± 0.04254
p1 0.4502 ± 1.382e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

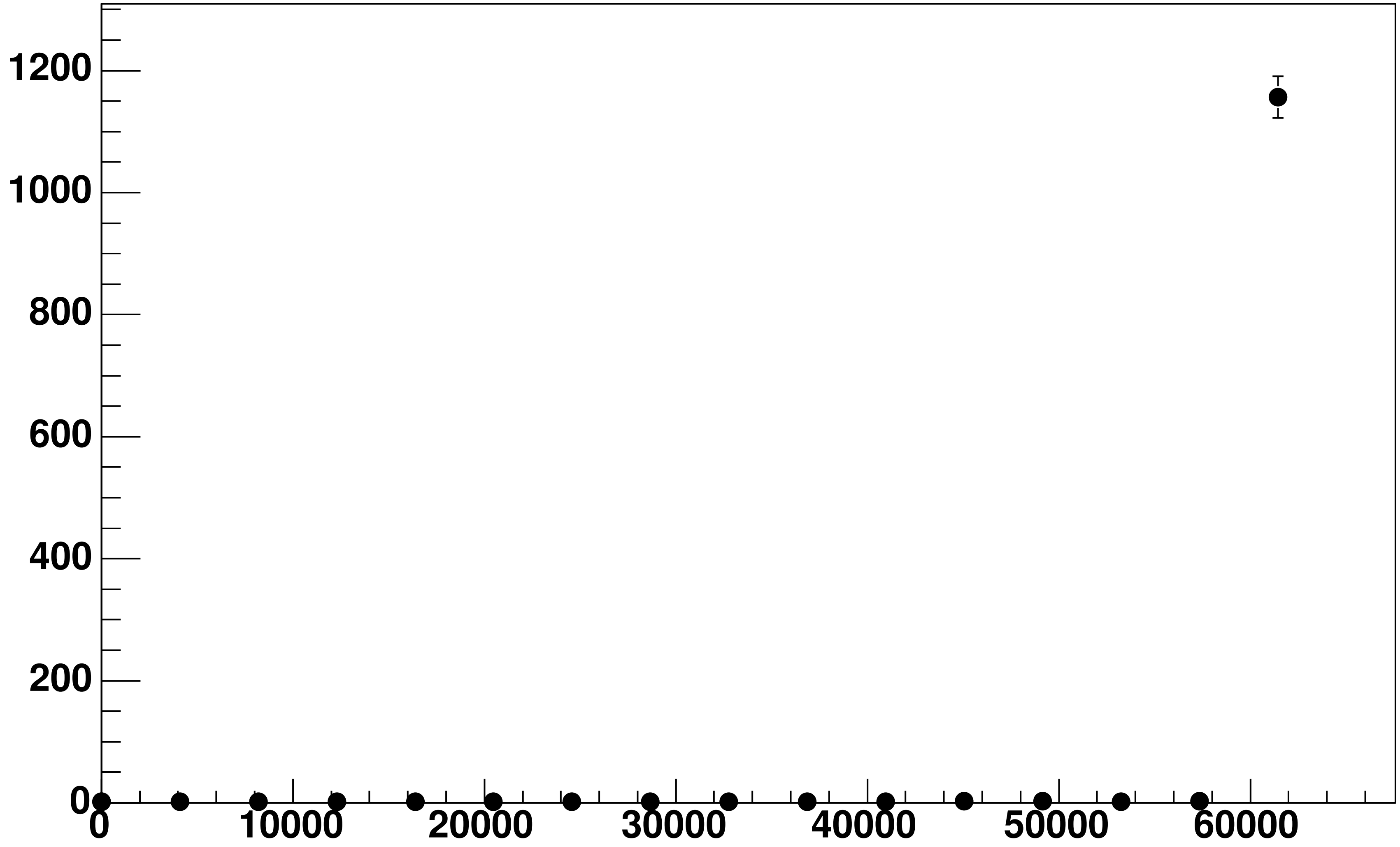


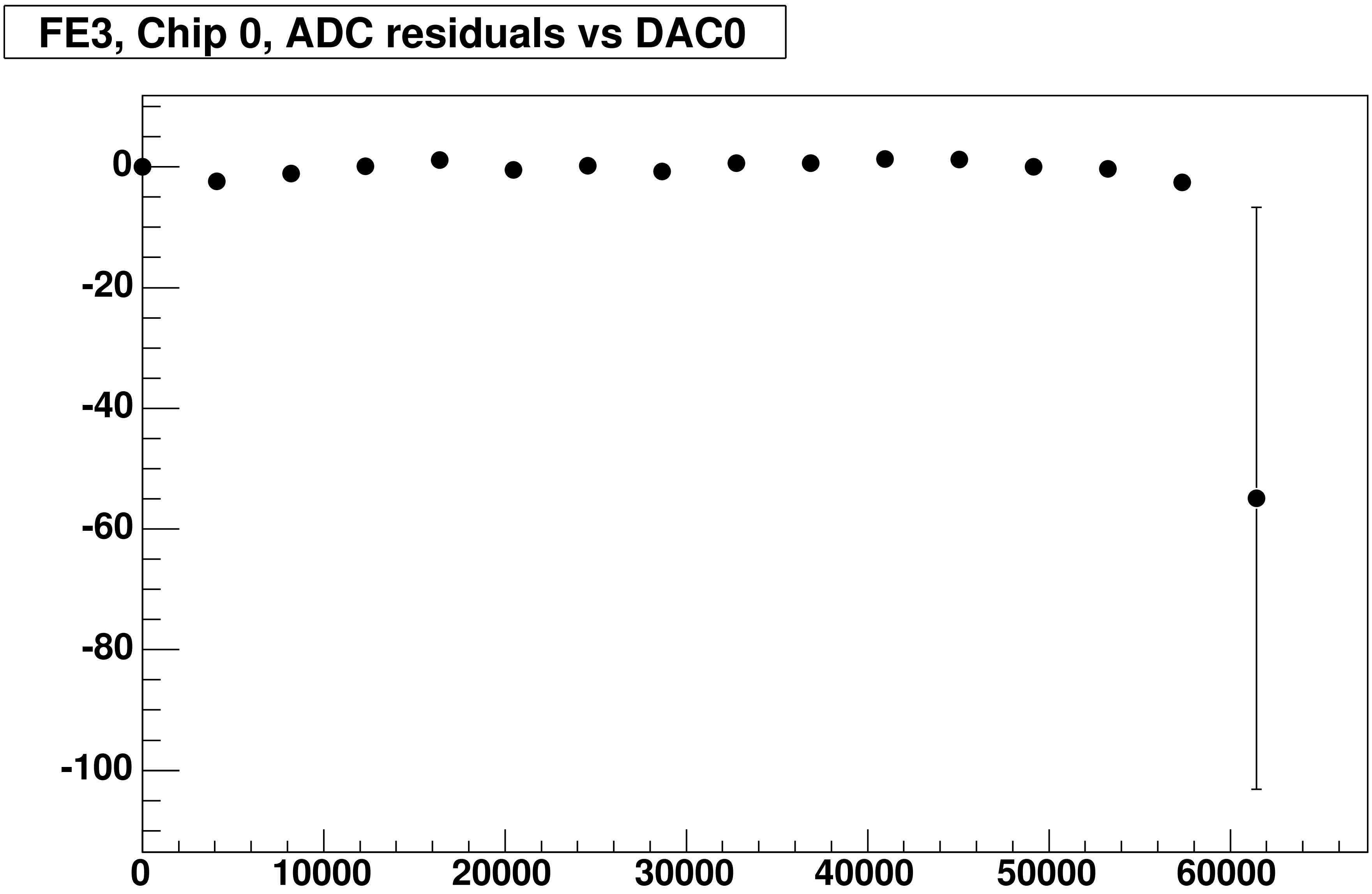
FE2, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

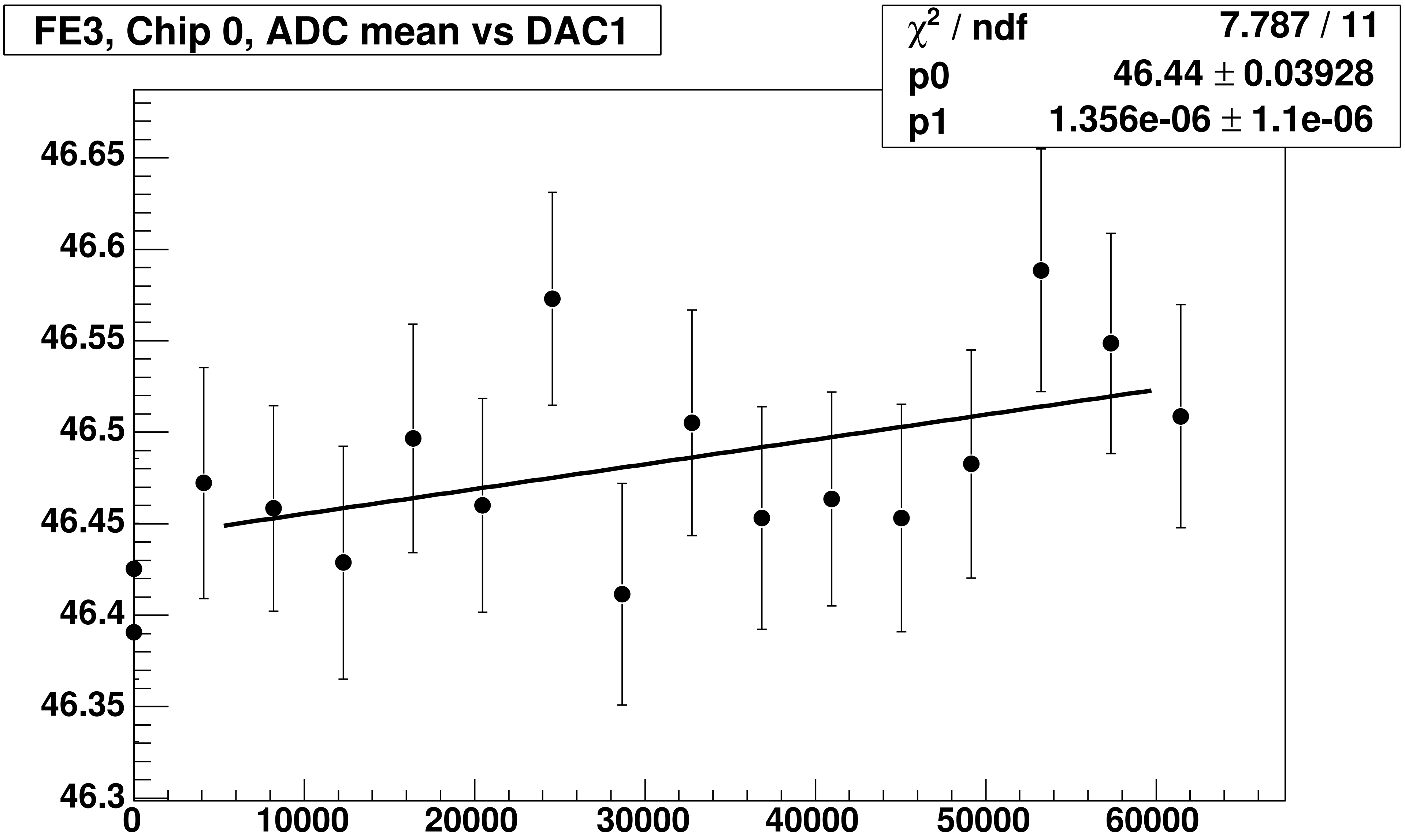


FE3, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2018 / 11
p0 49.83 ± 0.04317
p1 0.4512 ± 1.384e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

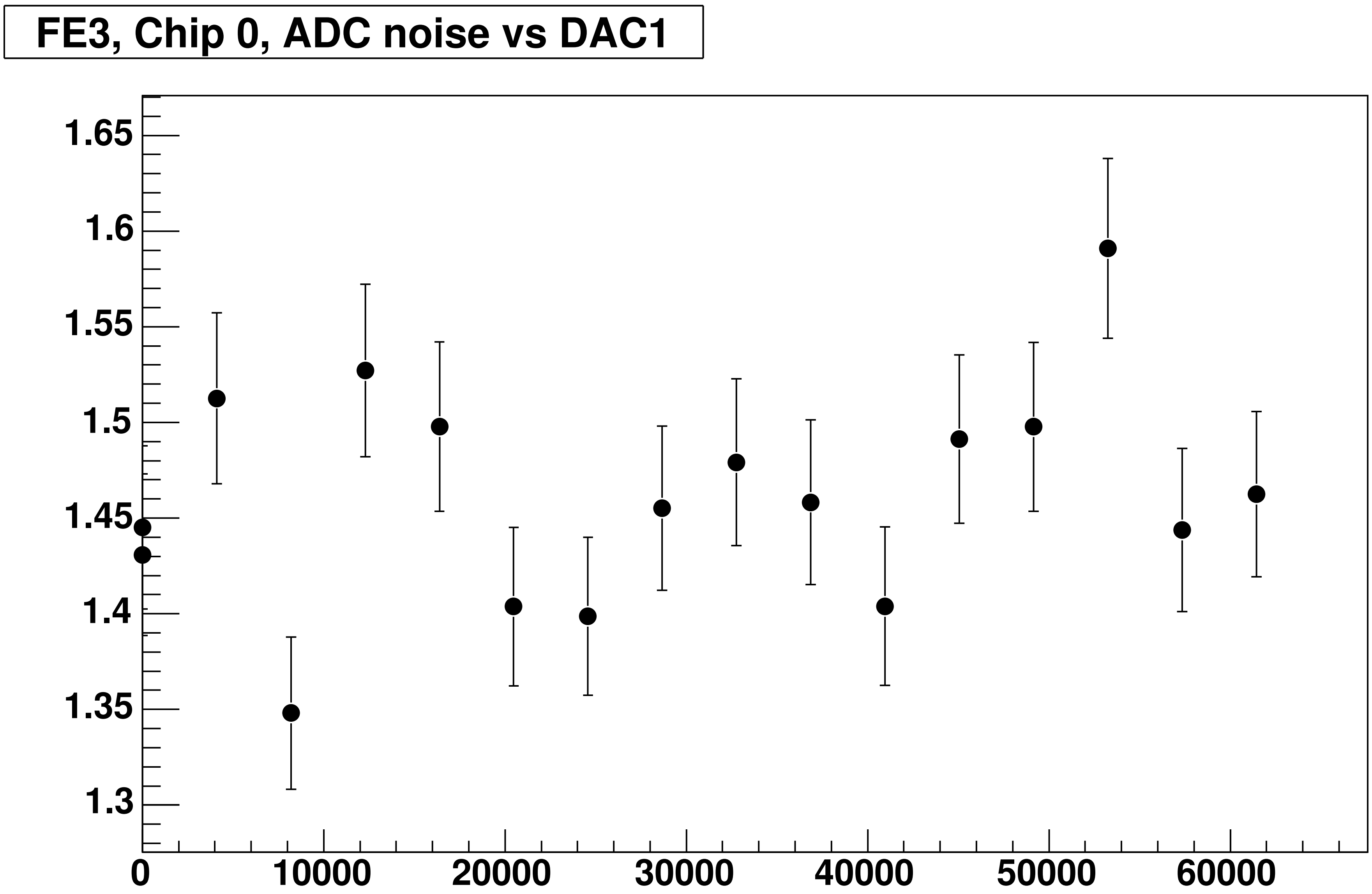
FE3, Chip 0, ADC noise vs DAC0



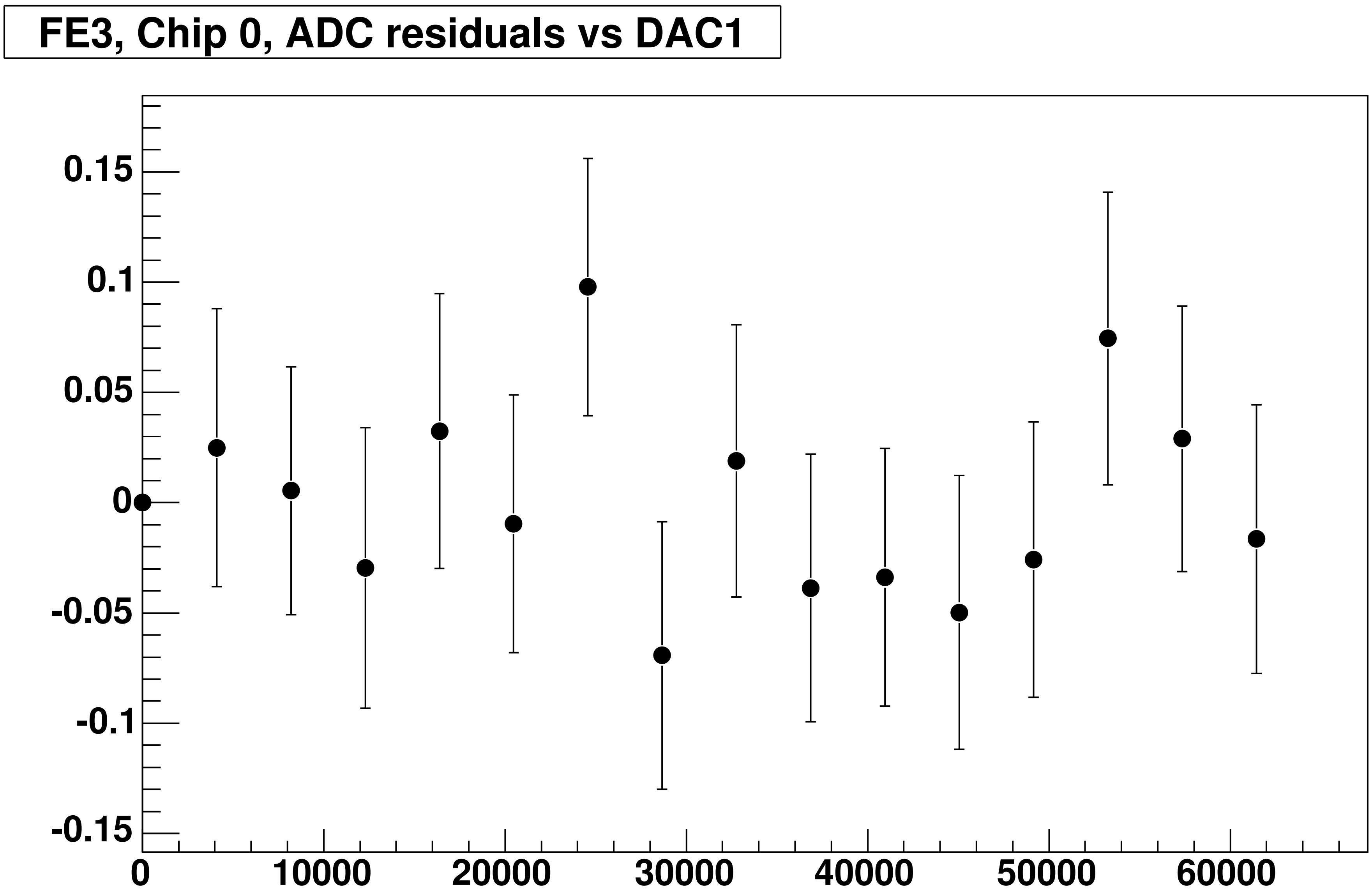

FE3, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



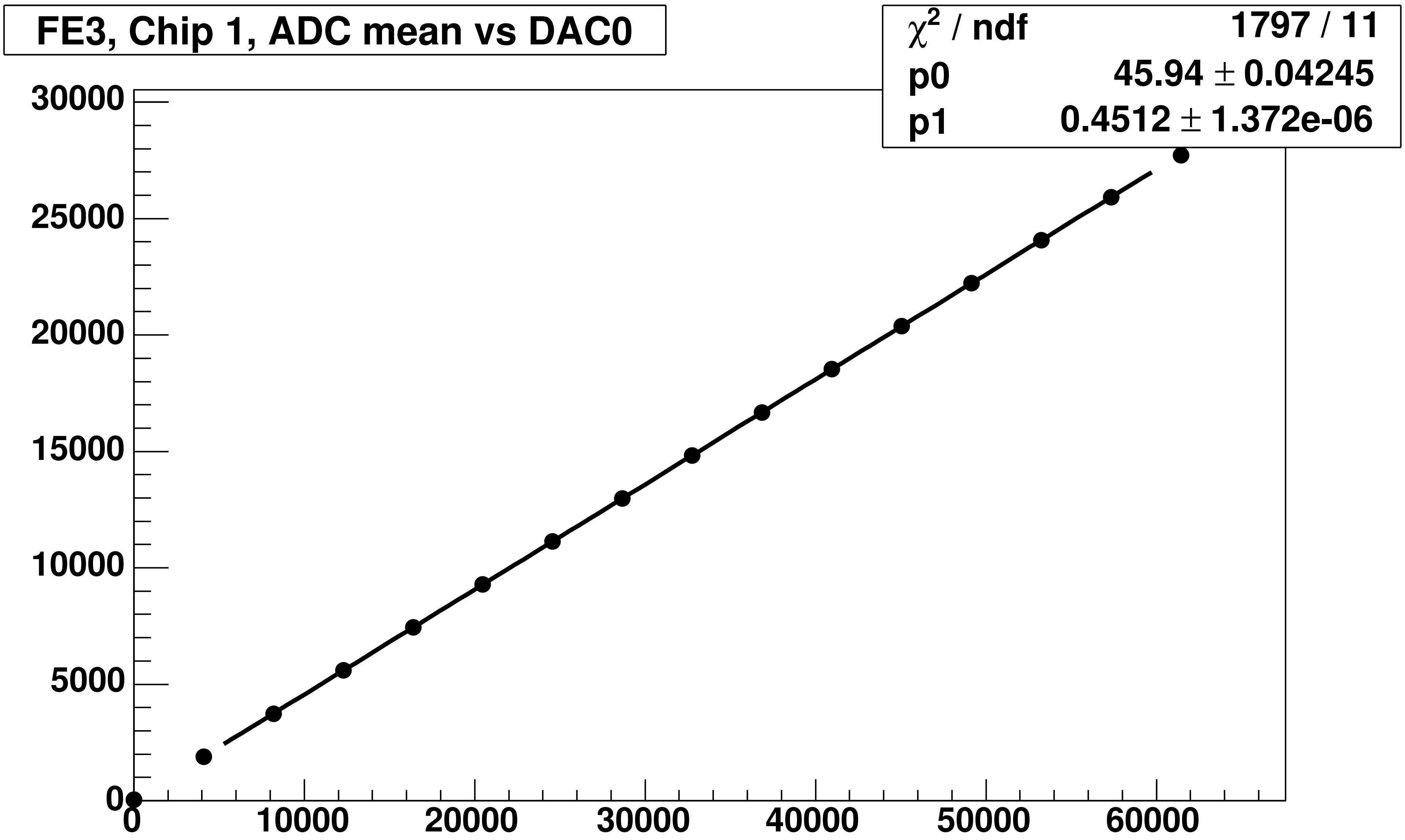
FE3, Chip 0, ADC mean vs DAC1
χ^2 / ndf 7.787 / 11
p0 46.44 ± 0.03928
p1 1.356e-06 ± 1.1e-06
46.65
46.6
46.55
46.5
46.45
46.4
46.35
46.3
0
10000
20000
30000
40000
50000
60000



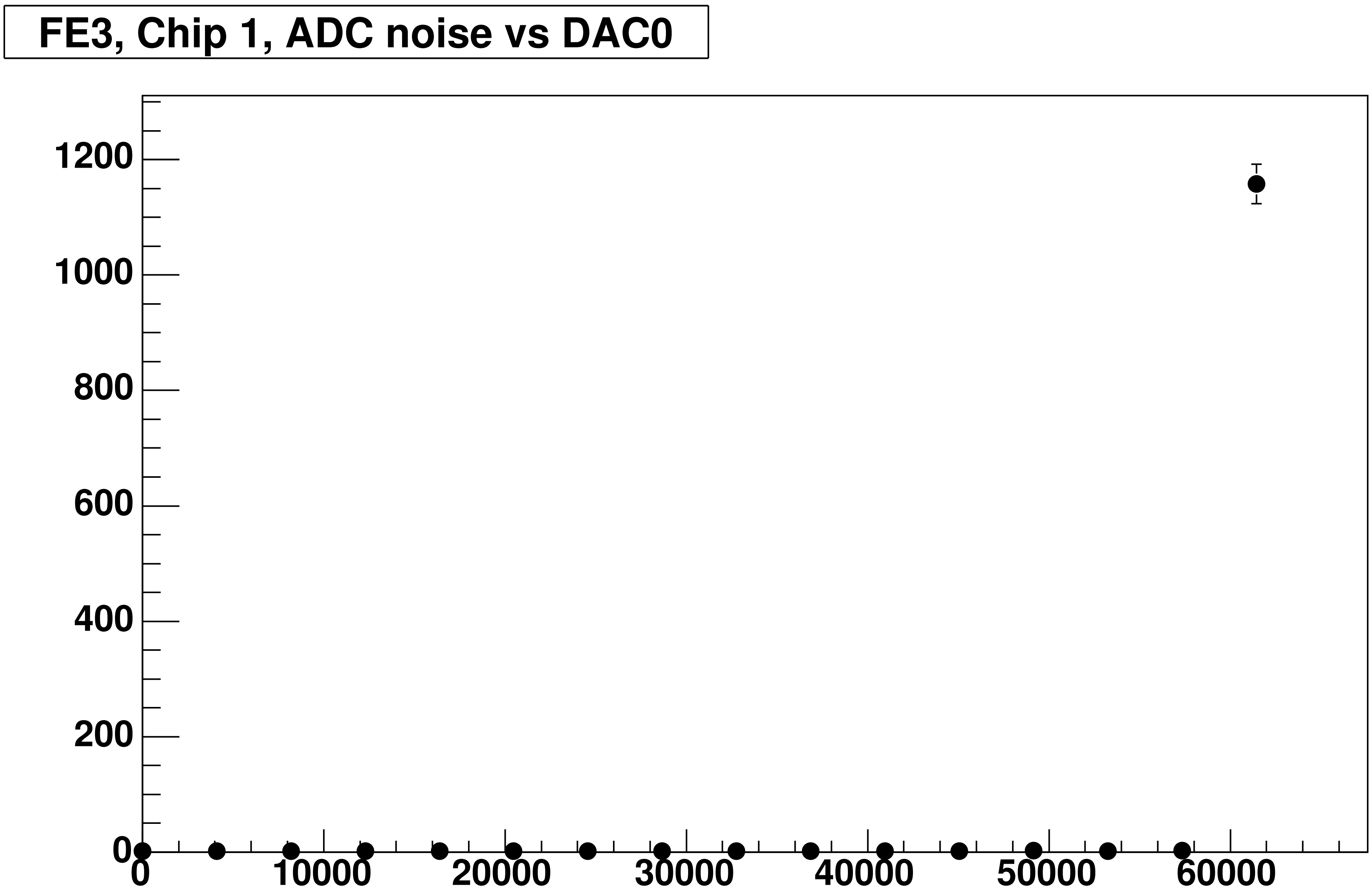
FE3, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



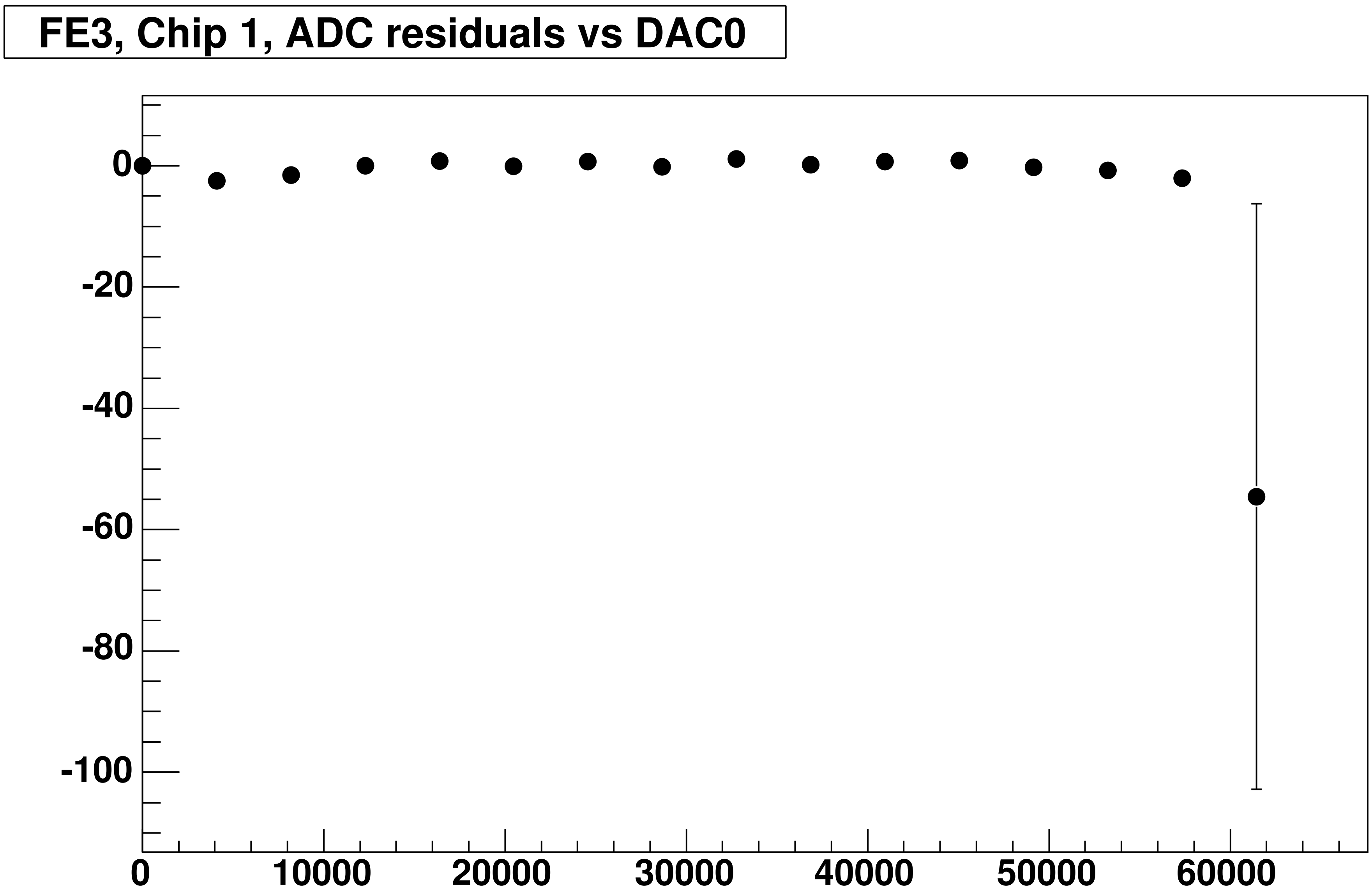
FE3, Chip 0, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



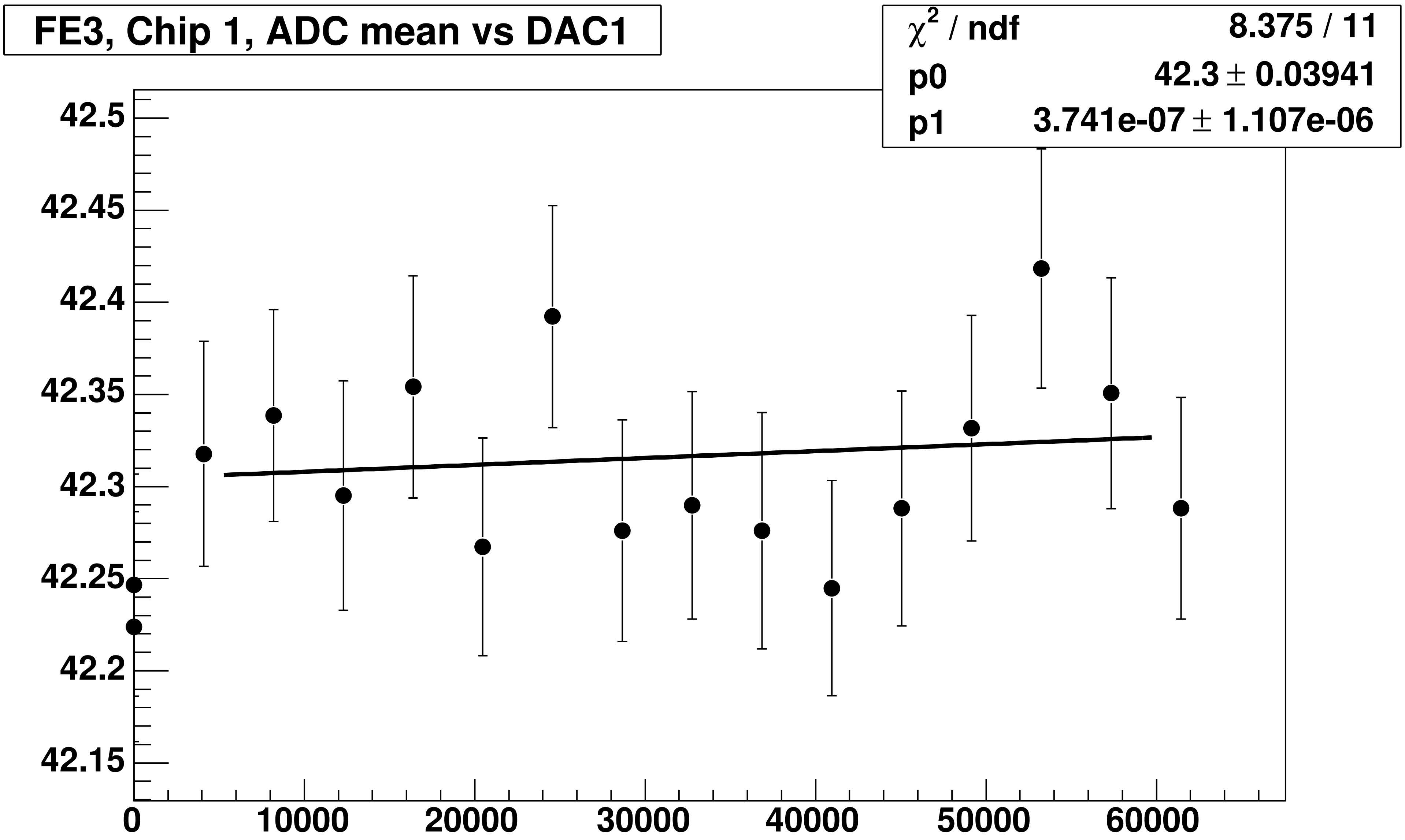
FE3, Chip 1, ADC mean vs DAC0
χ² / ndf 1797 / 11
p0 45.94 ± 0.04245
p1 0.4512 ± 1.372e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



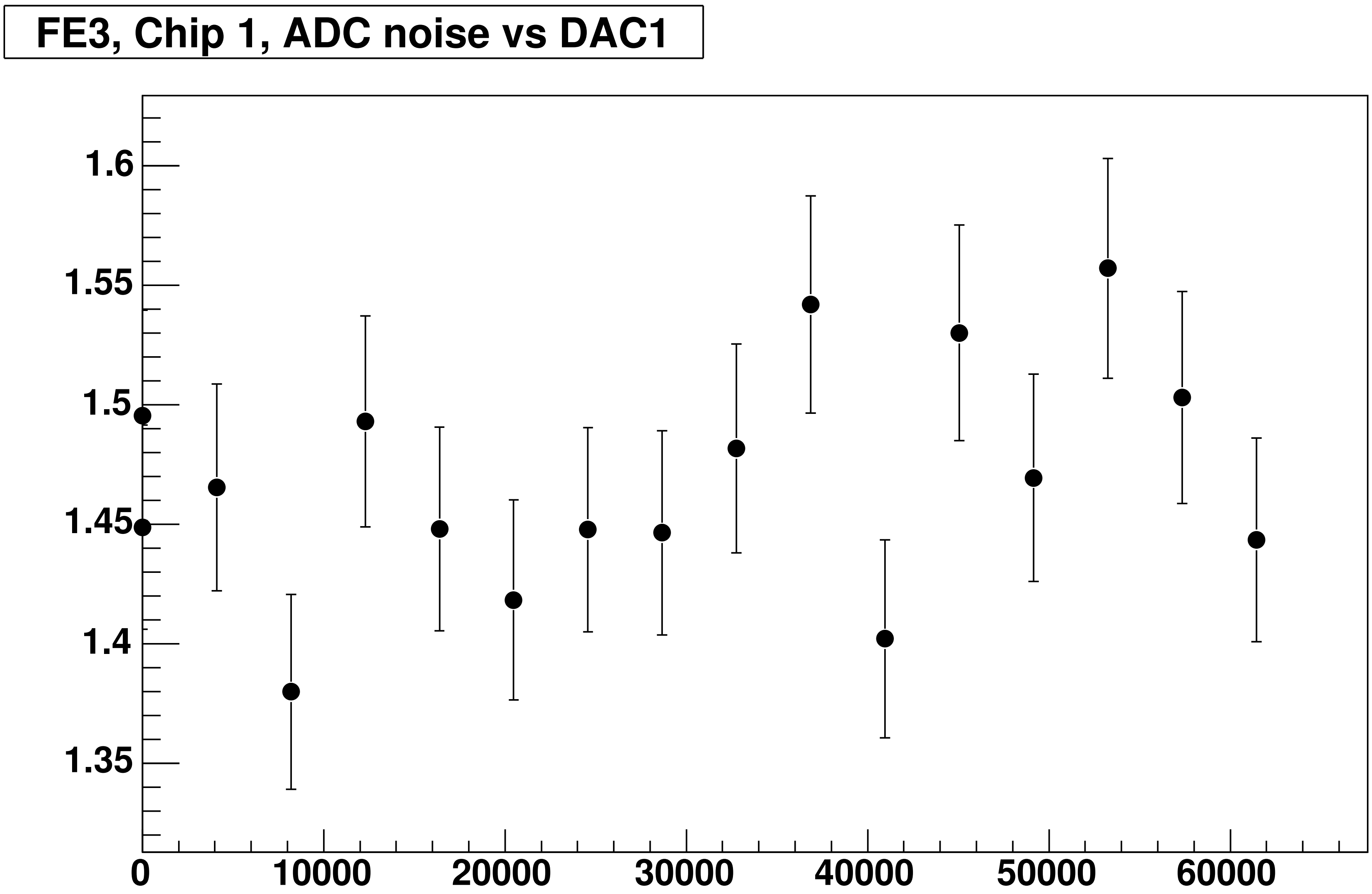
FE3, Chip 1, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000



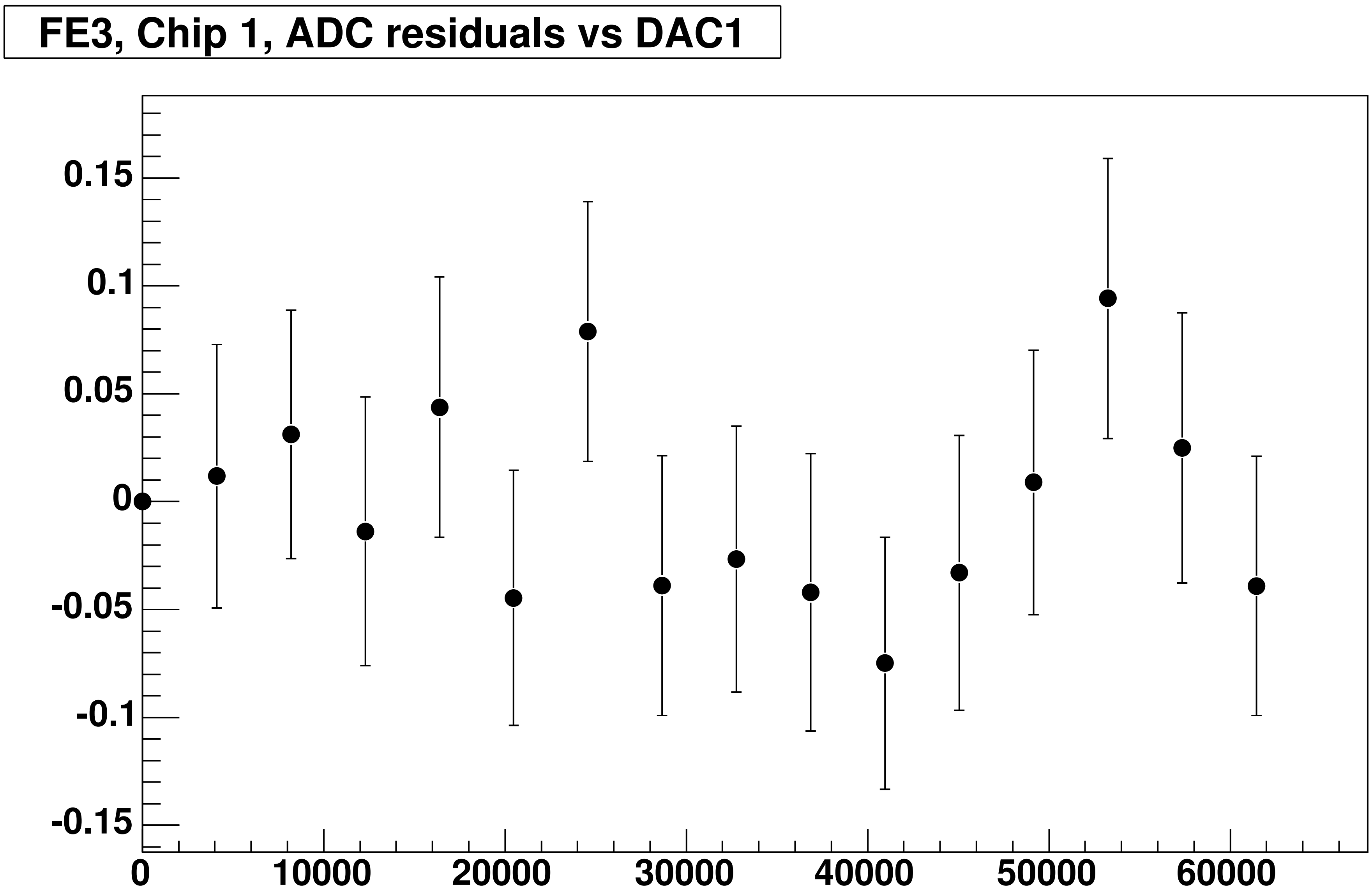
FE3, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



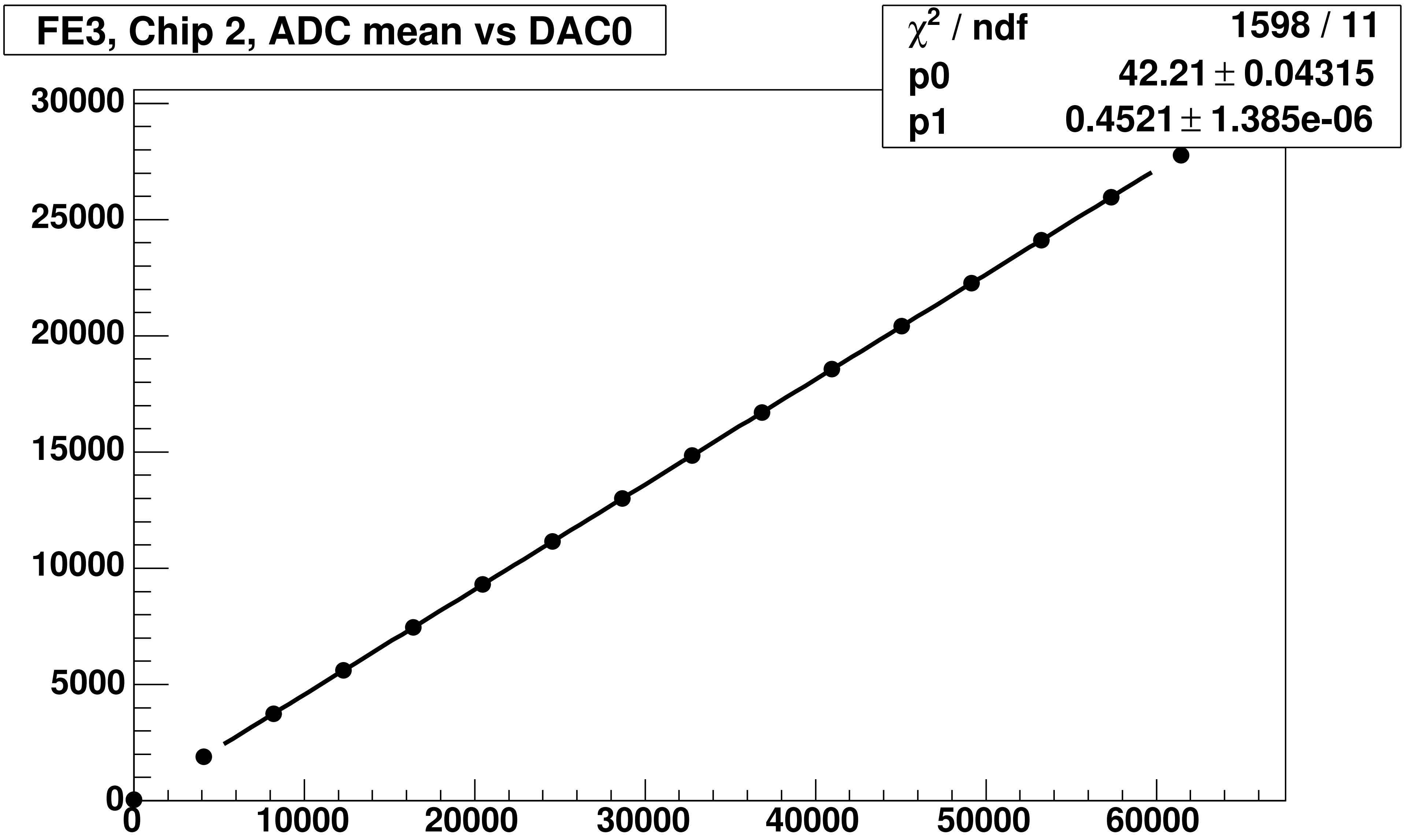
FE3, Chip 1, ADC mean vs DAC1
χ^2 / ndf 8.375 / 11
p0 42.3 ± 0.03941
p1 3.741e-07 ± 1.107e-06
42.15
42.2
42.25
42.3
42.35
42.4
42.45
42.5
0
10000
20000
30000
40000
50000
60000



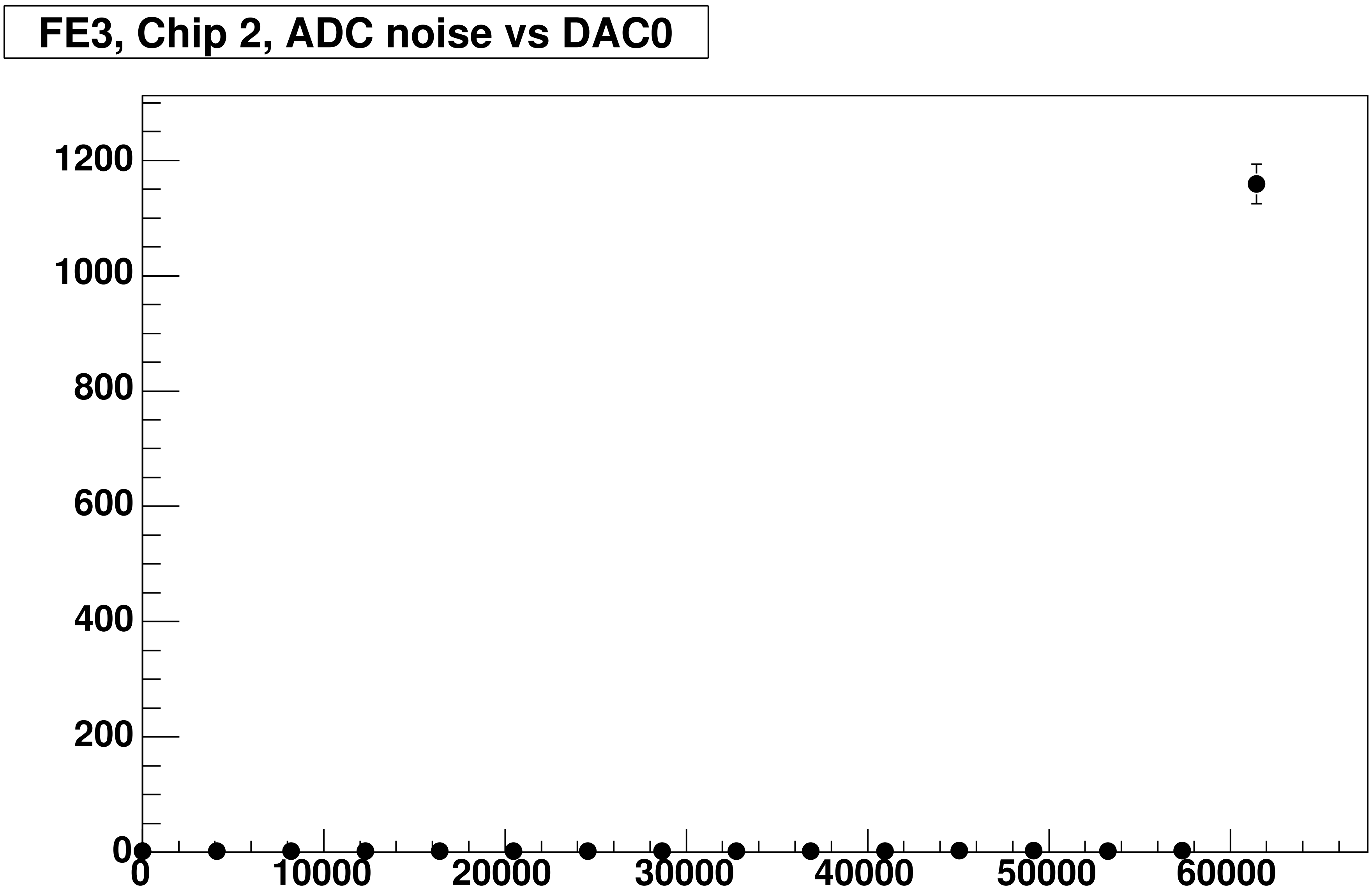
FE3, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

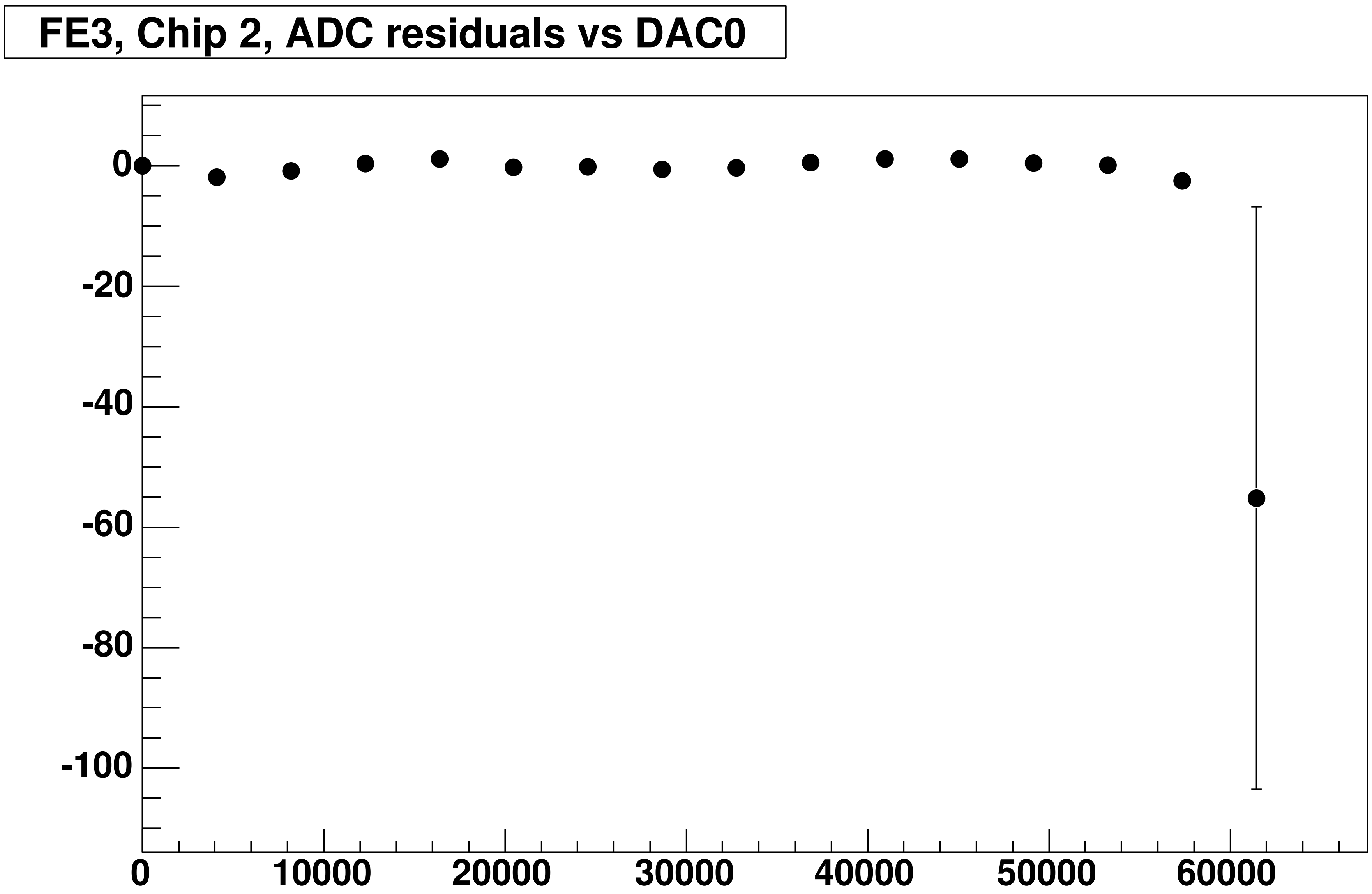


FE3, Chip 1, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

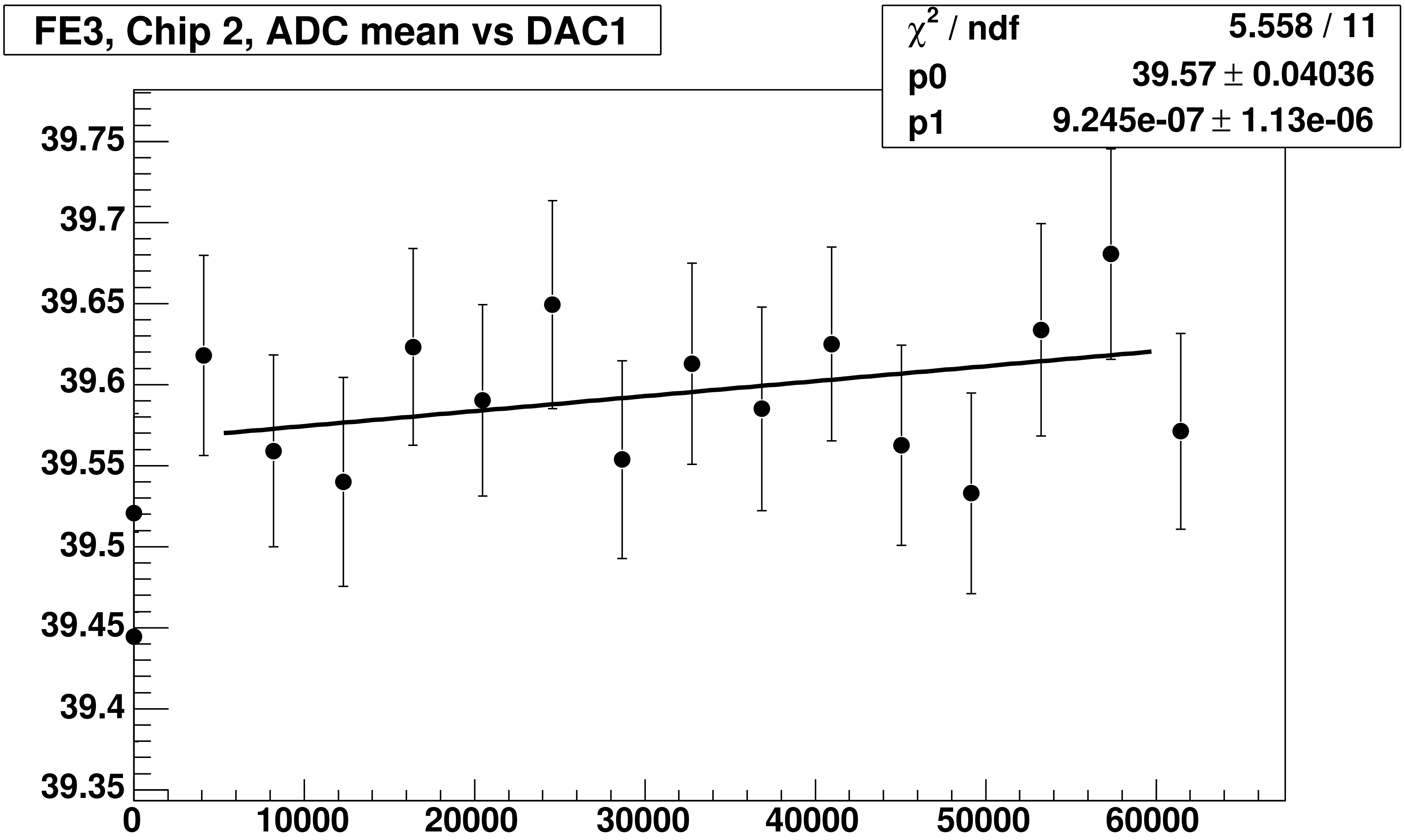


FE3, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1598 / 11
p0 42.21 ± 0.04315
p1 0.4521 ± 1.385e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

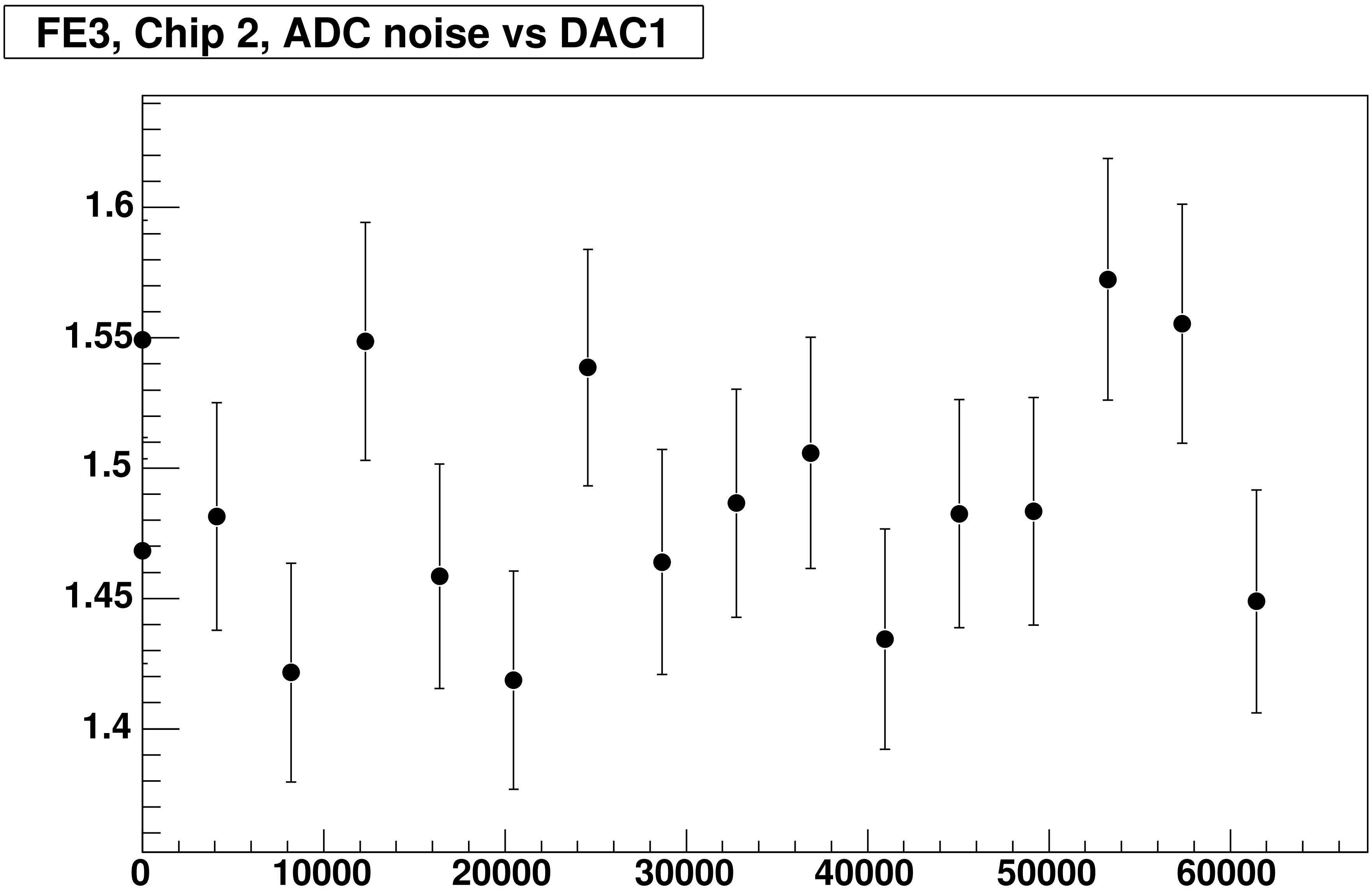

FE3, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

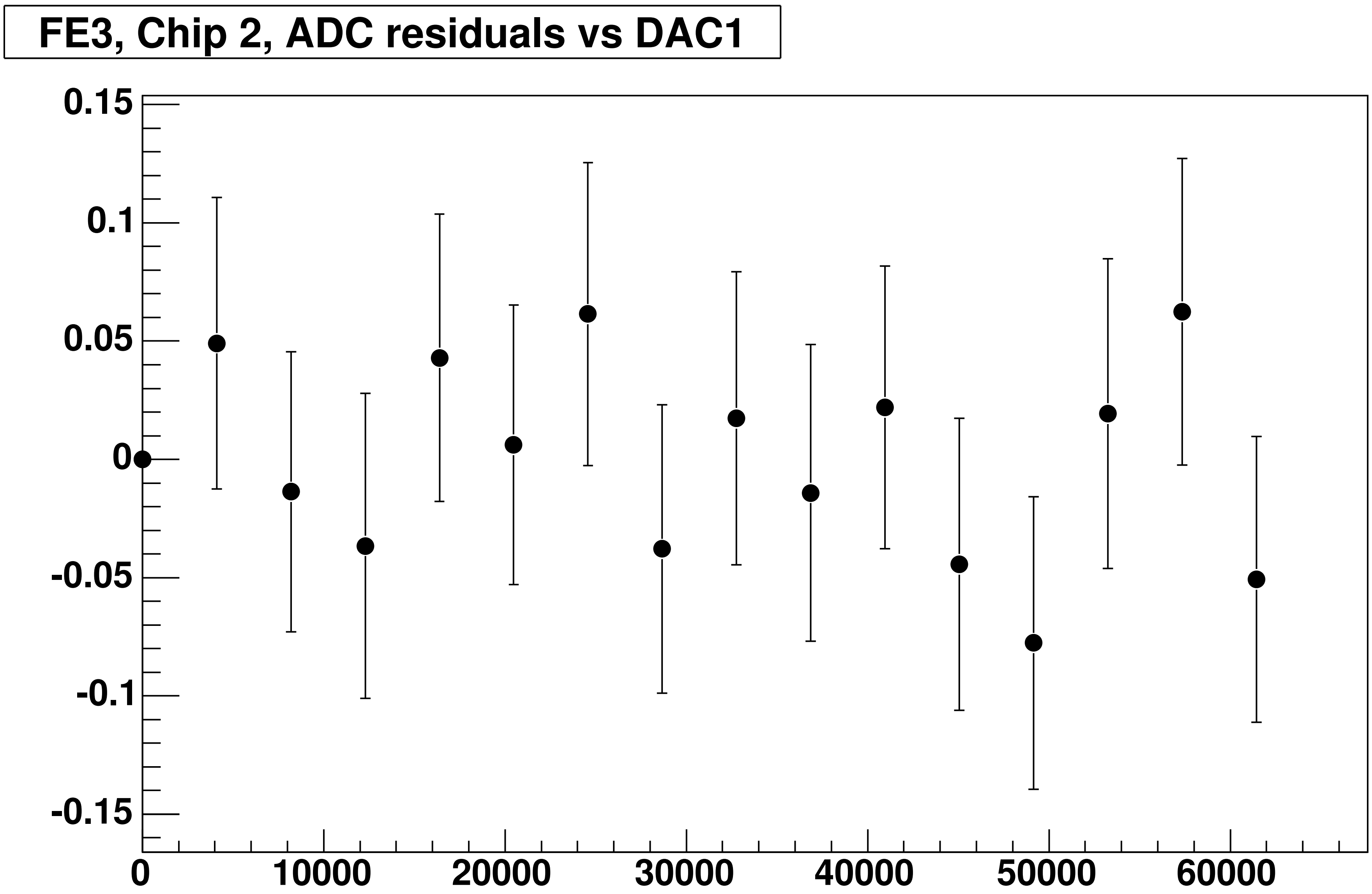


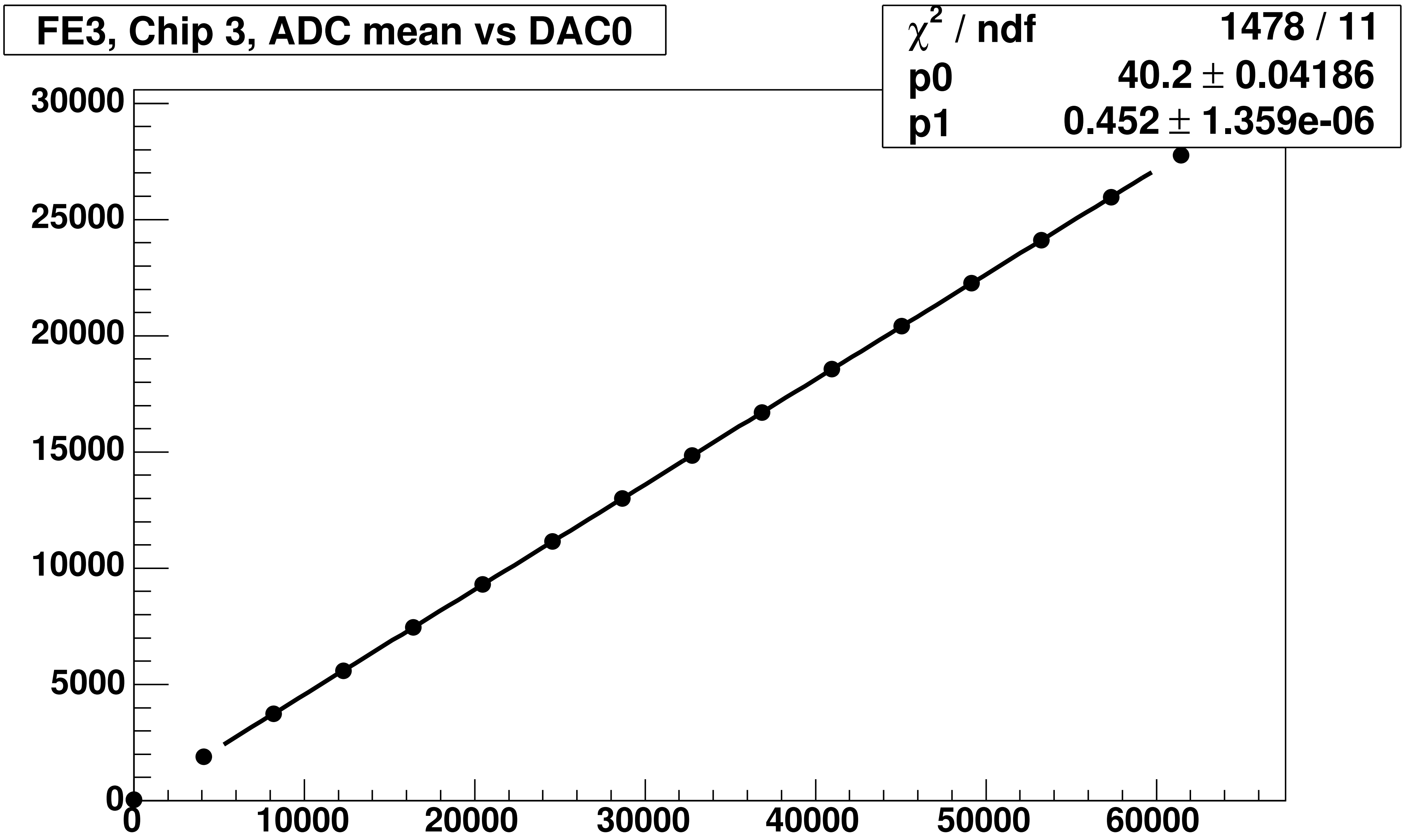
FE3, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

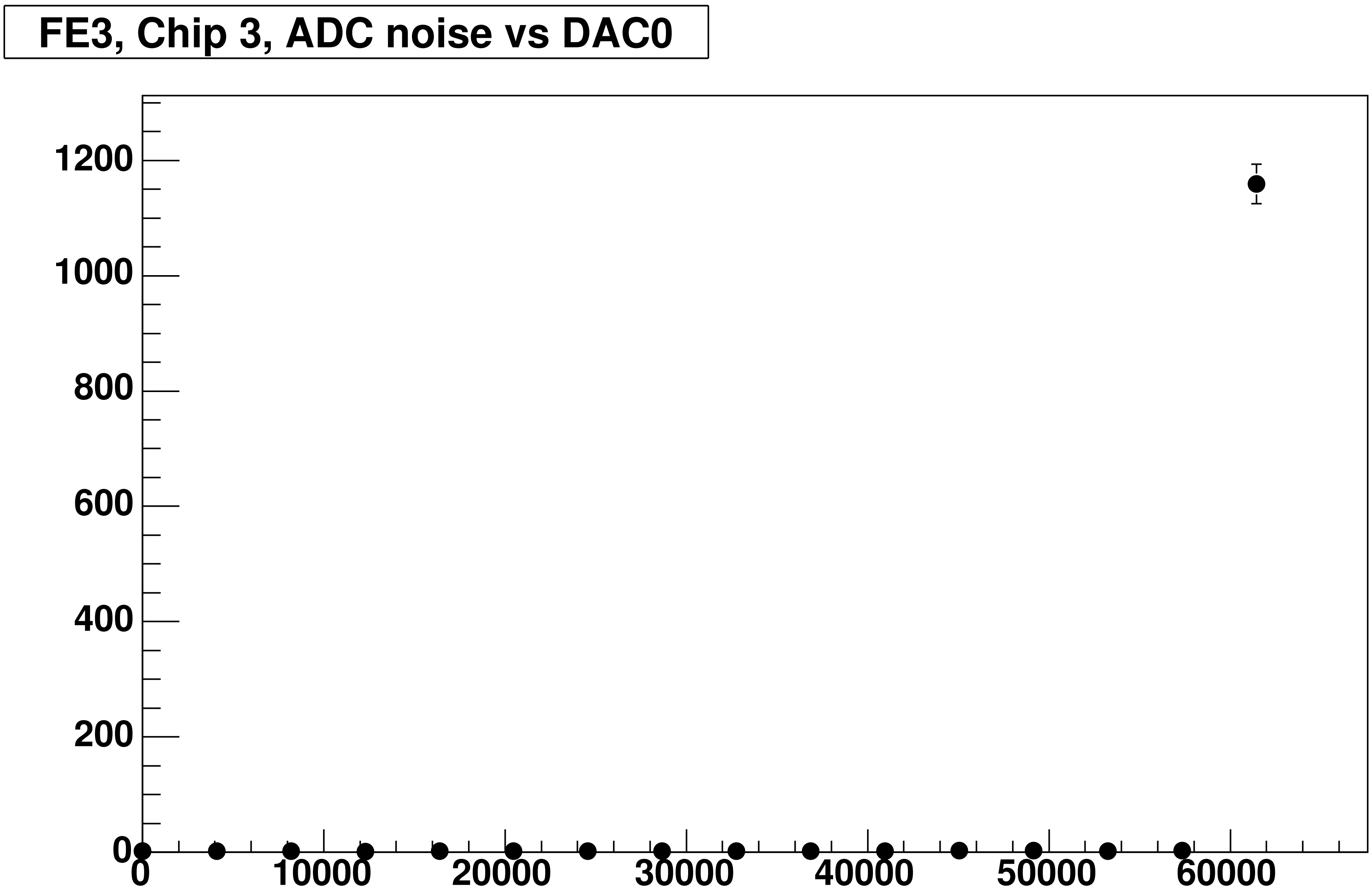


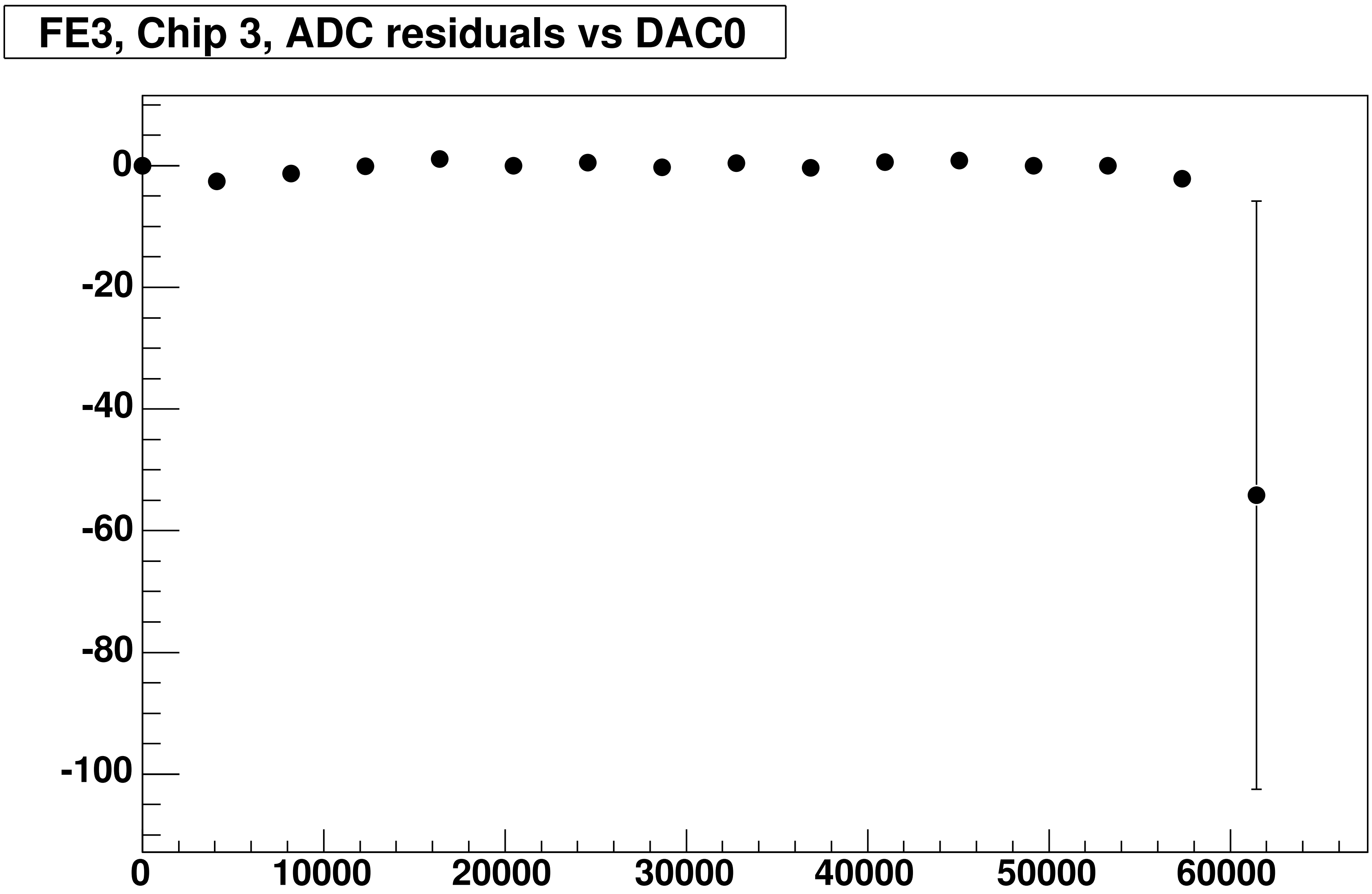
FE3, Chip 2, ADC mean vs DAC1
χ^2 / ndf 5.558 / 11
p0 39.57 ± 0.04036
p1 9.245e-07 ± 1.13e-06
39.75
39.7
39.65
39.6
39.55
39.5
39.45
39.4
39.35
0
10000
20000
30000
40000
50000
60000


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

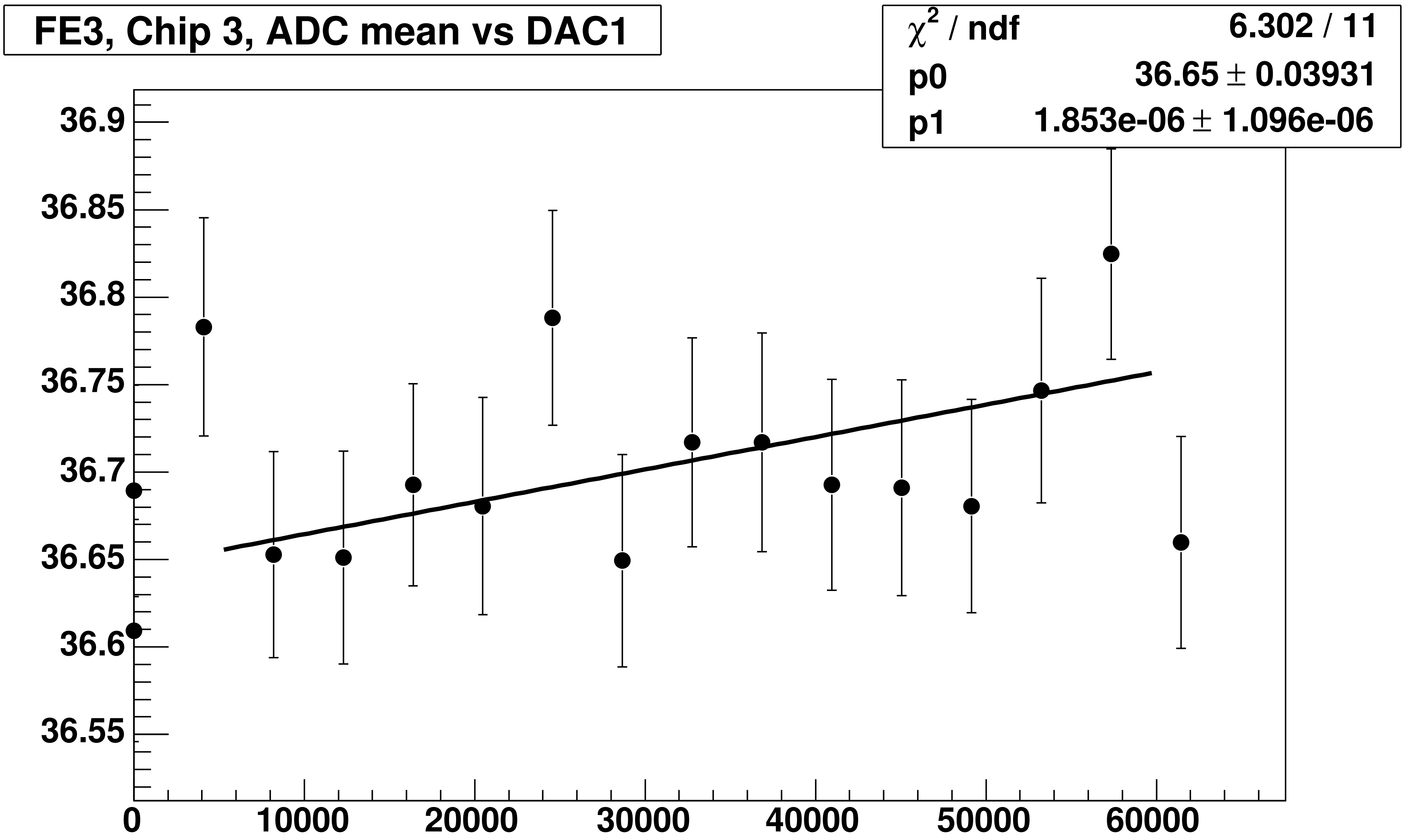

FE3, Chip 2, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000


FE3, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1478 / 11
p0 40.2 ± 0.04186
p1 0.452 ± 1.359e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

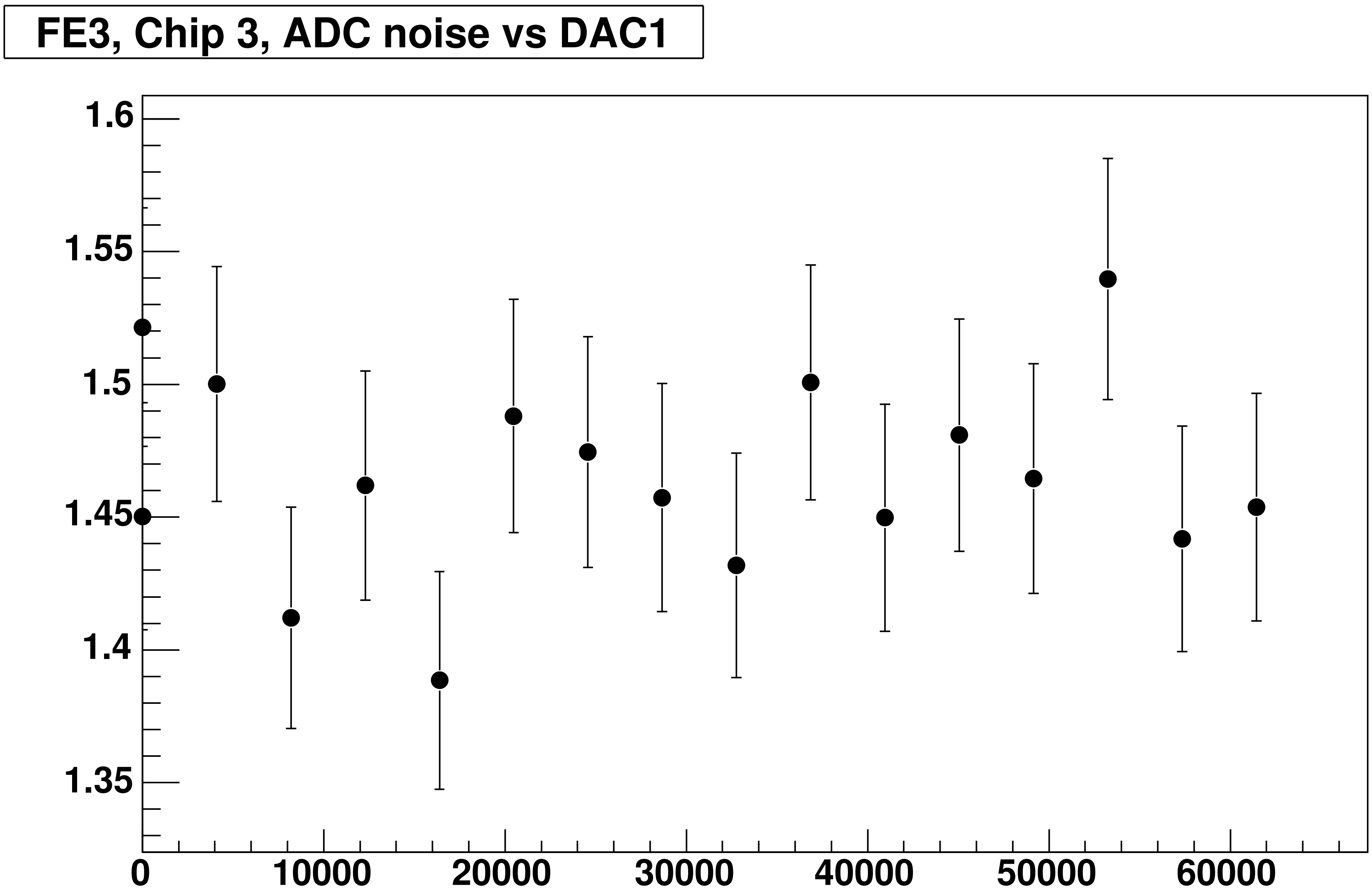

FE3, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

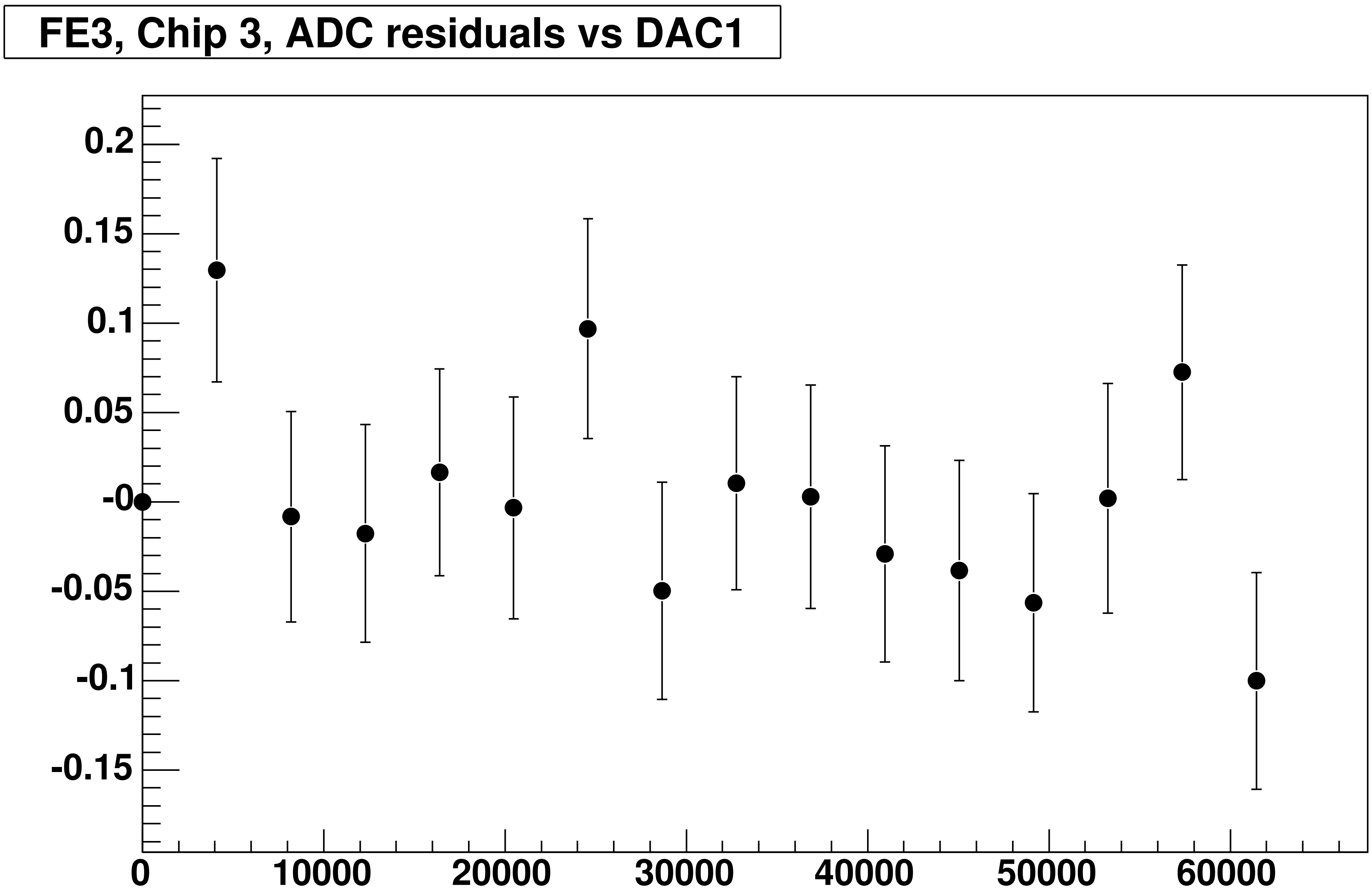


FE3, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

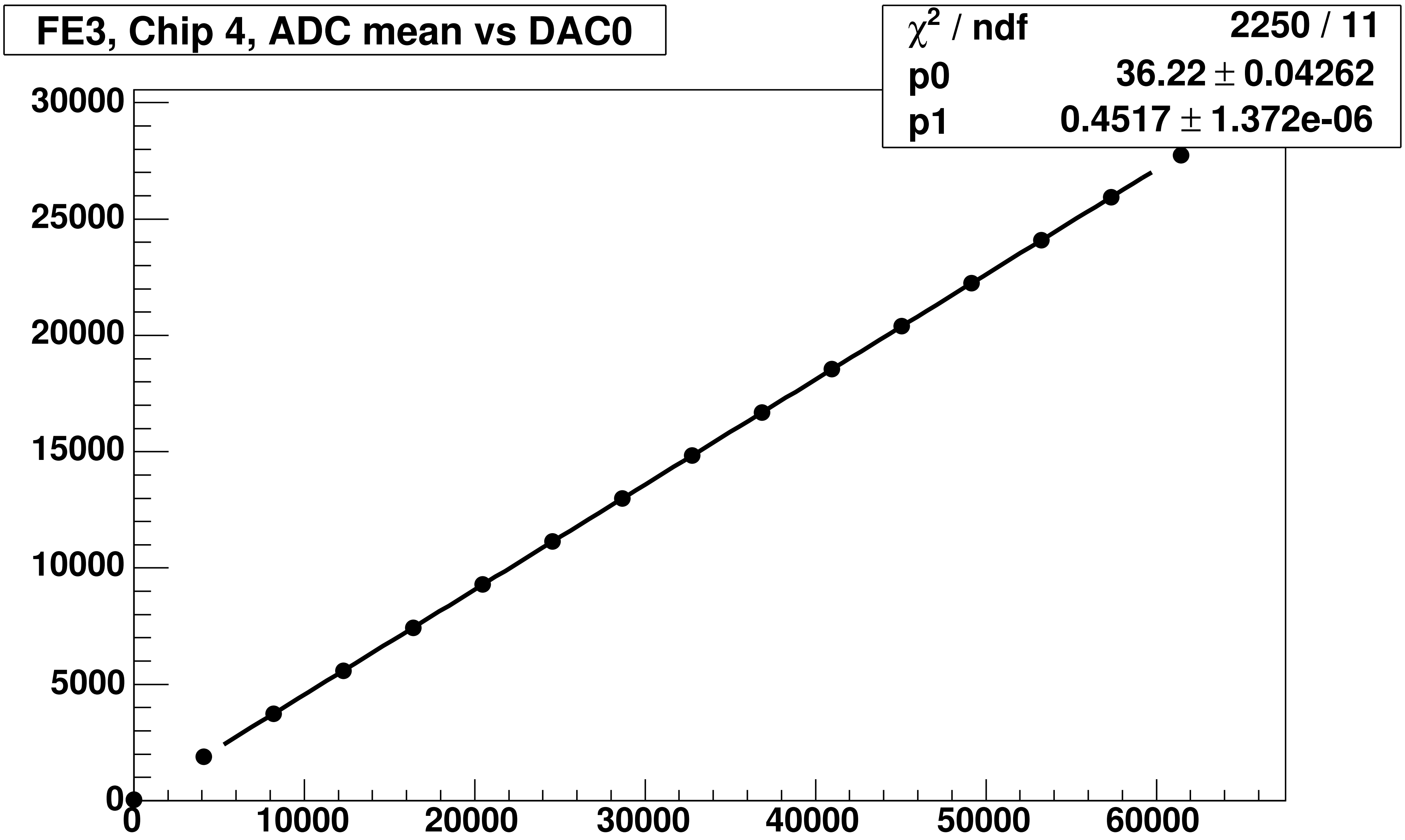


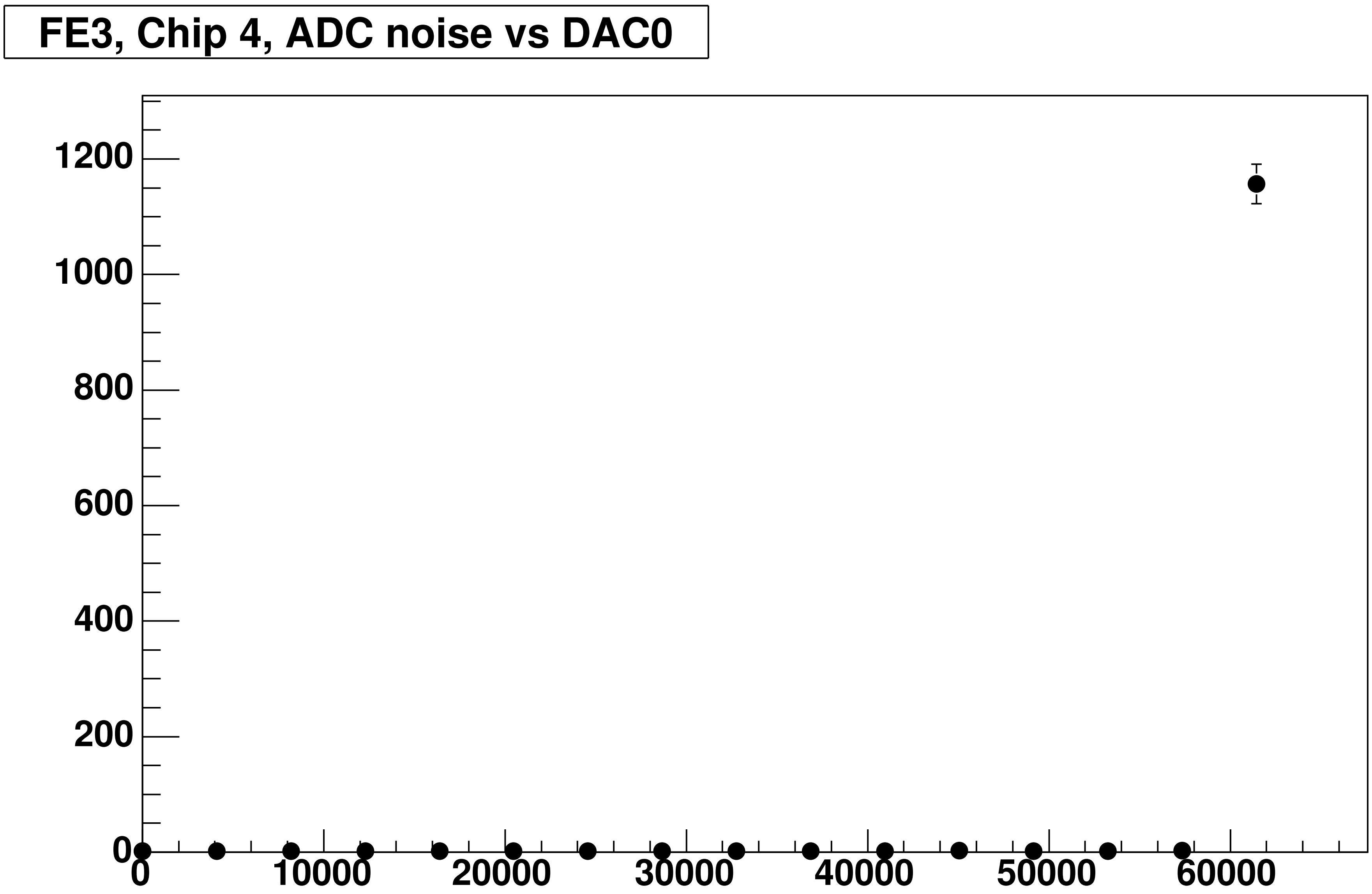
FE3, Chip 3, ADC mean vs DAC1
χ² / ndf 6.302 / 11
p0 36.65 ± 0.03931
p1 1.853e-06 ± 1.096e-06
36.9
36.85
36.8
36.75
36.7
36.65
36.6
36.55
0
10000
20000
30000
40000
50000
60000


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

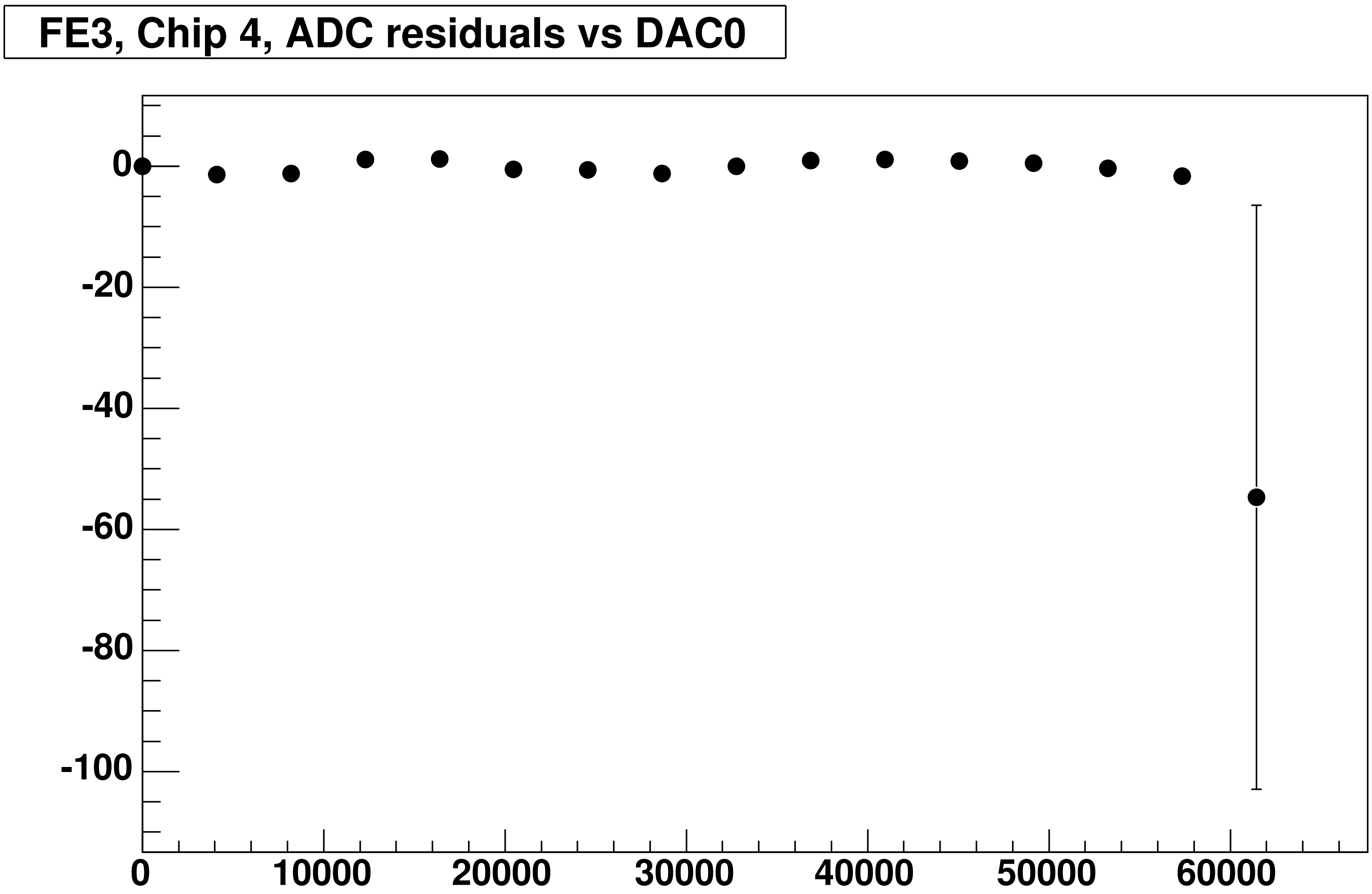


FE3, Chip 3, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

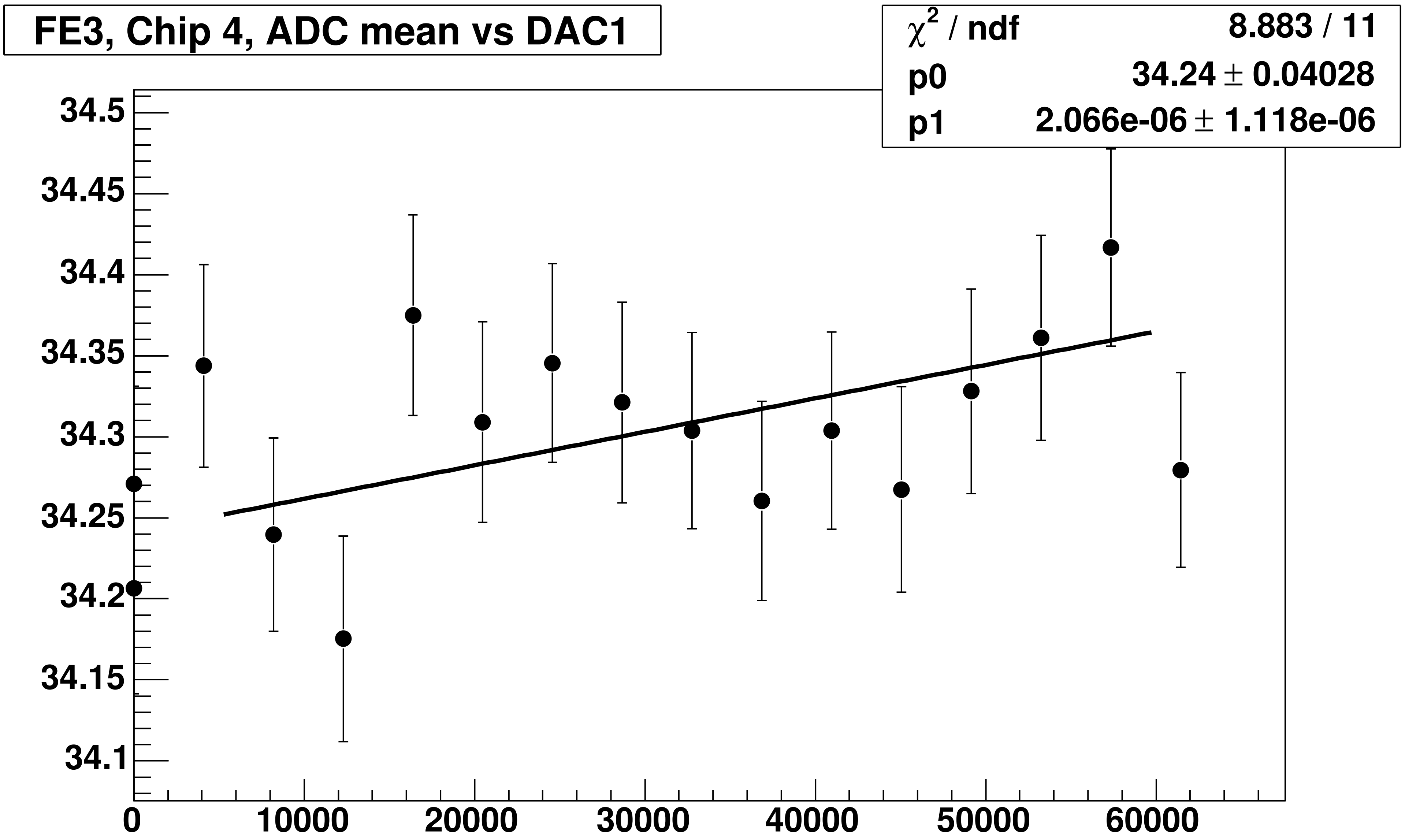

FE3, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2250 / 11
p0 36.22 ± 0.04262
p1 0.4517 ± 1.372e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



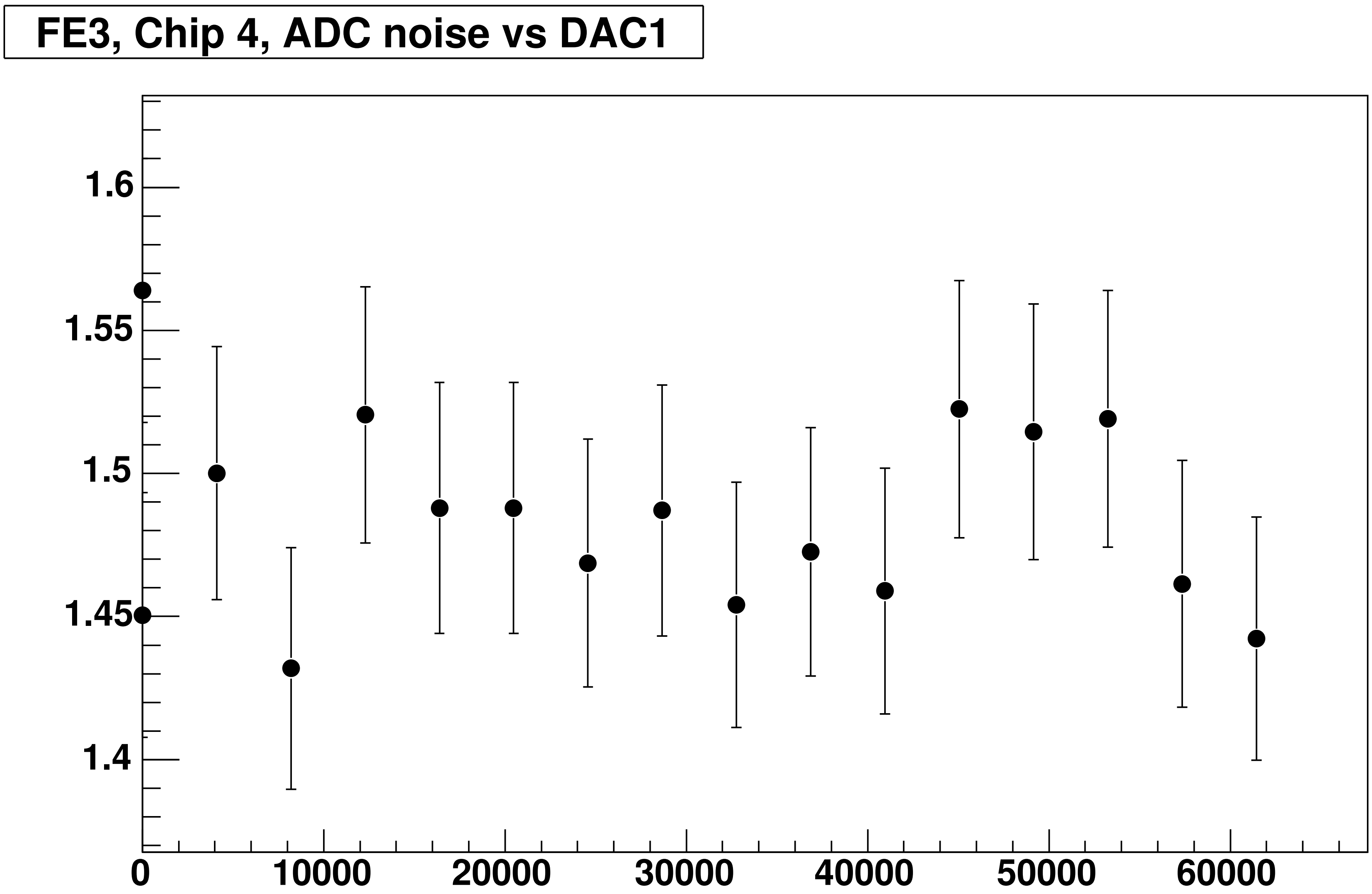
FE3, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



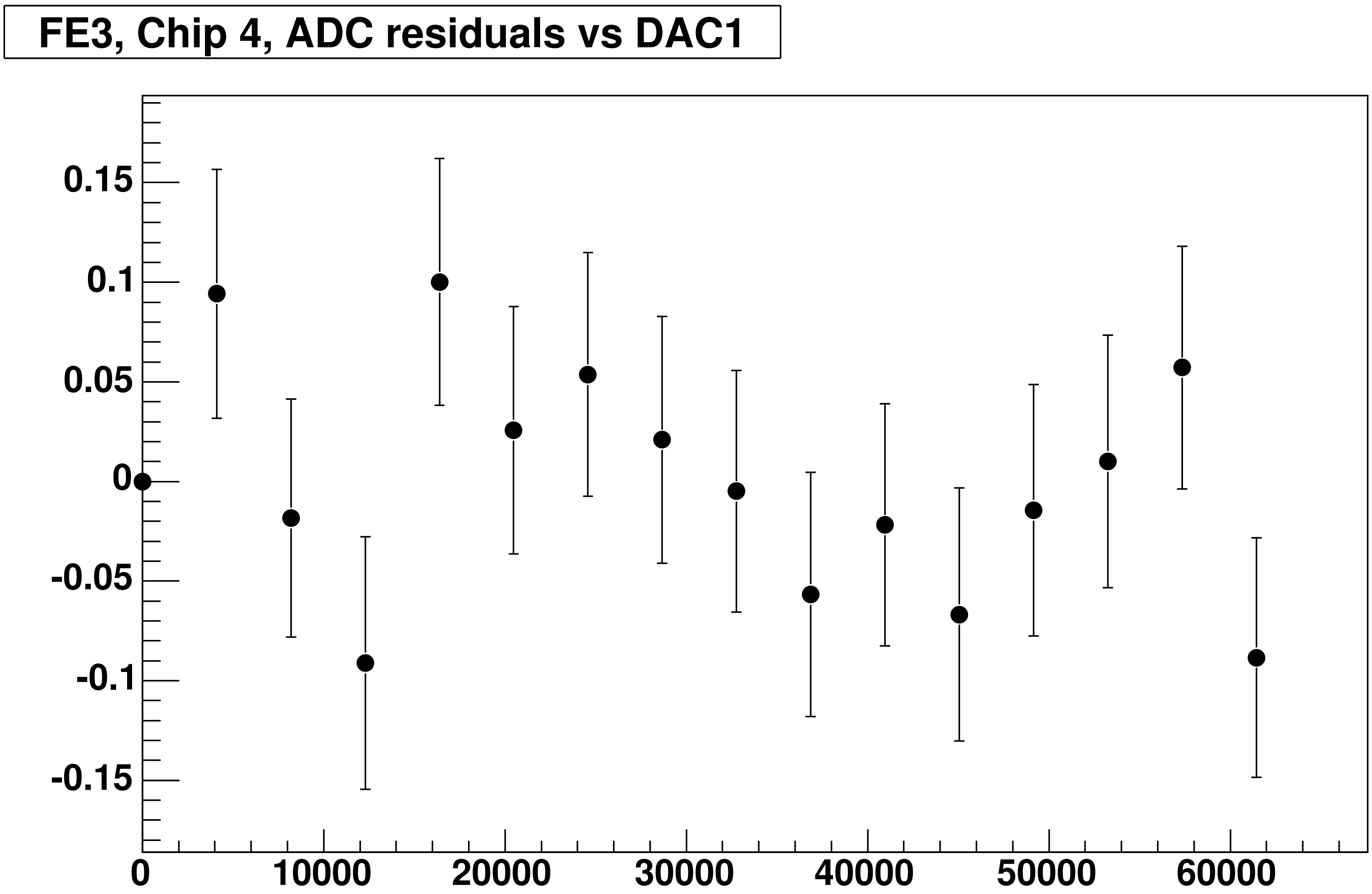
FE3, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



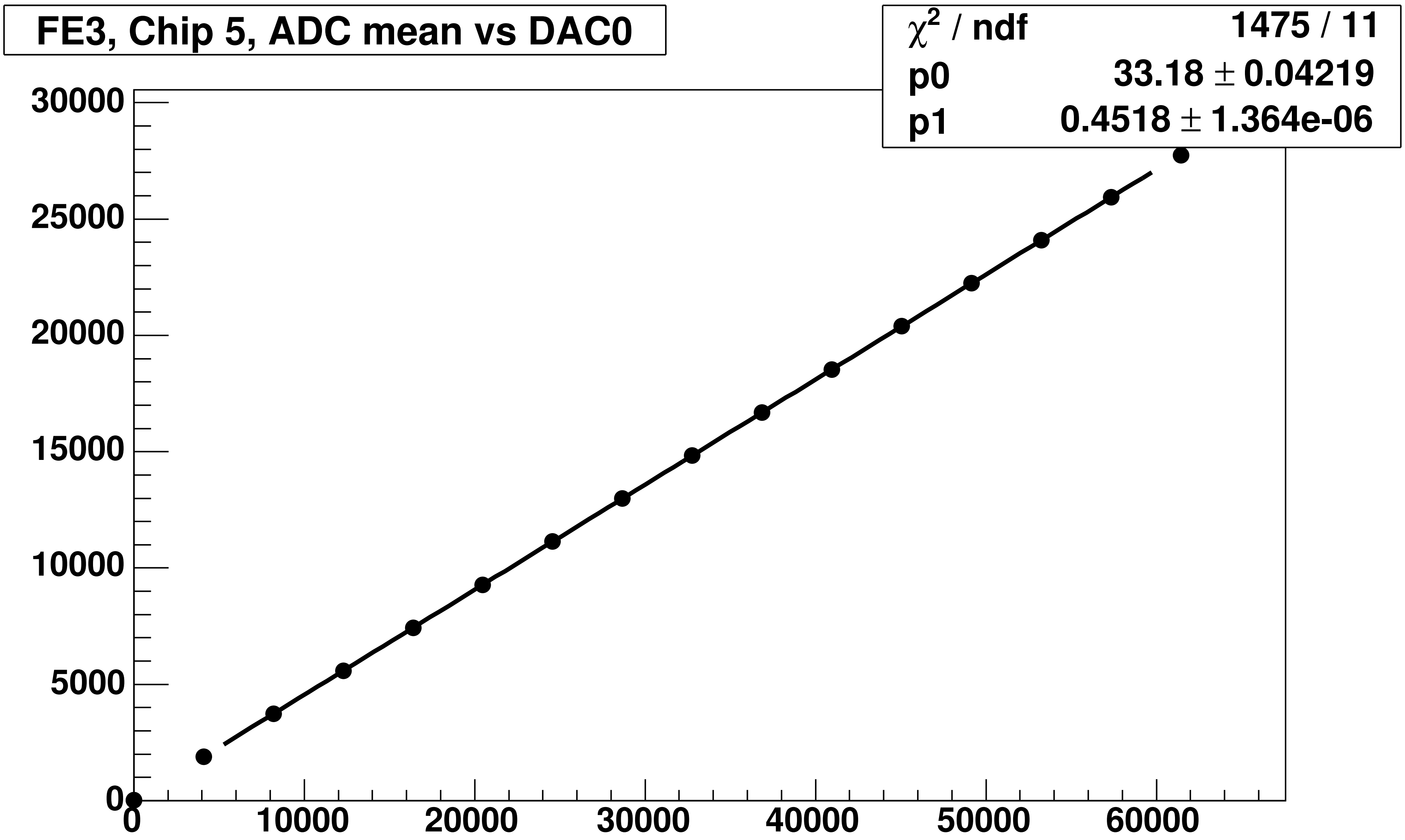
FE3, Chip 4, ADC mean vs DAC1
χ^2 / ndf 8.883 / 11
p0 34.24 ± 0.04028
p1 2.066e-06 ± 1.118e-06
34.5
34.45
34.4
34.35
34.3
34.25
34.2
34.15
34.1
0
10000
20000
30000
40000
50000
60000



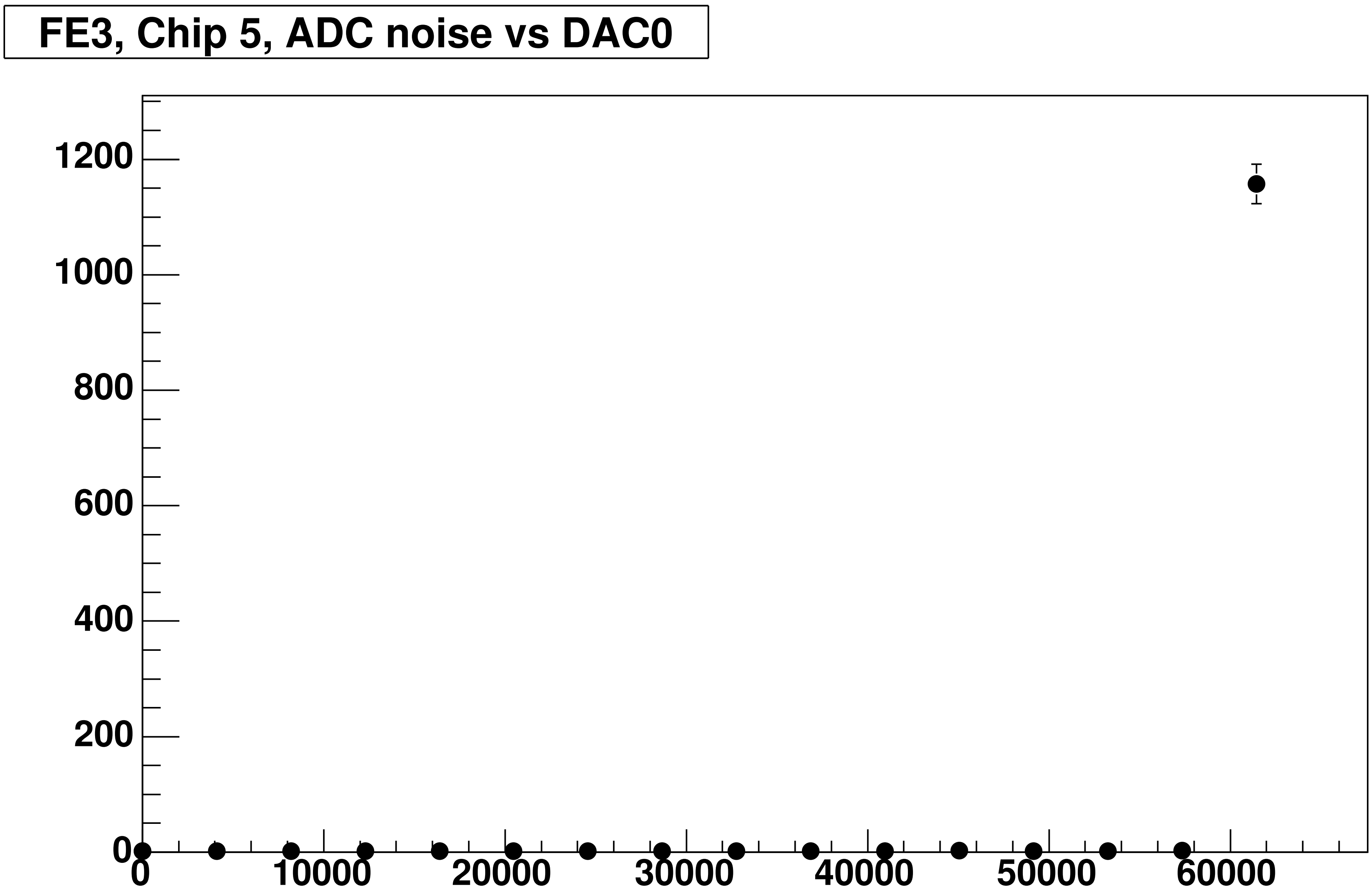
FE3, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

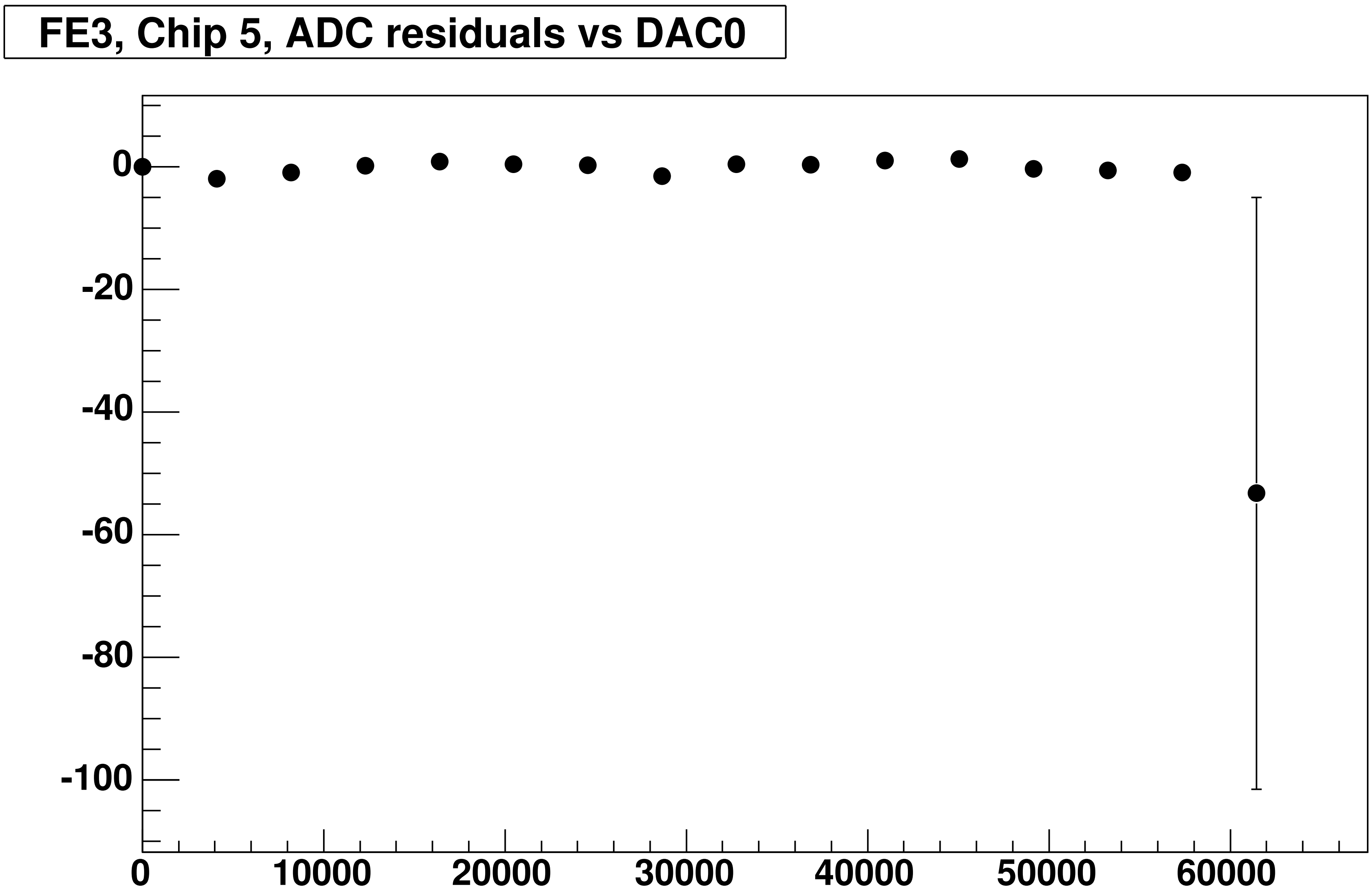


FE3, Chip 4, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

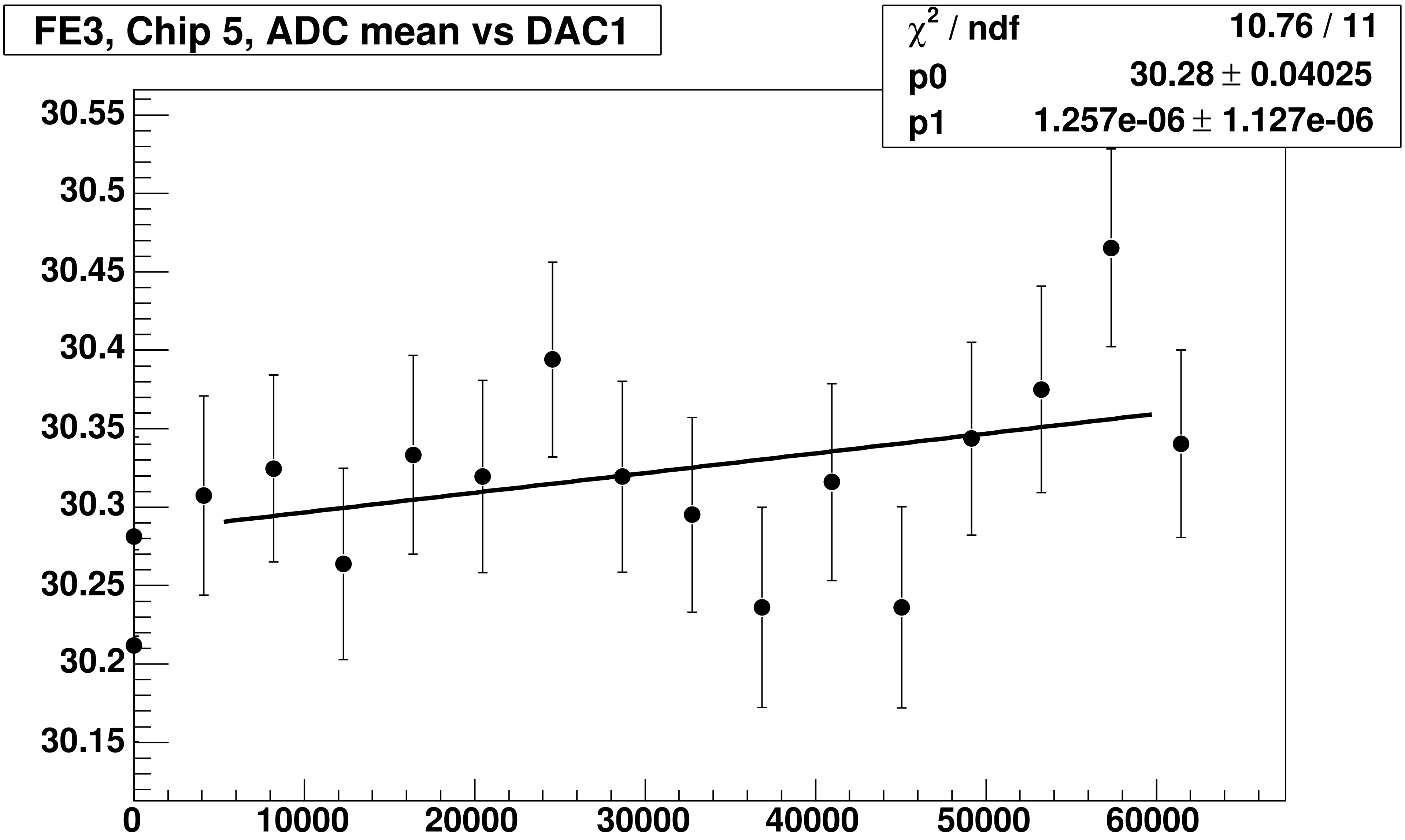


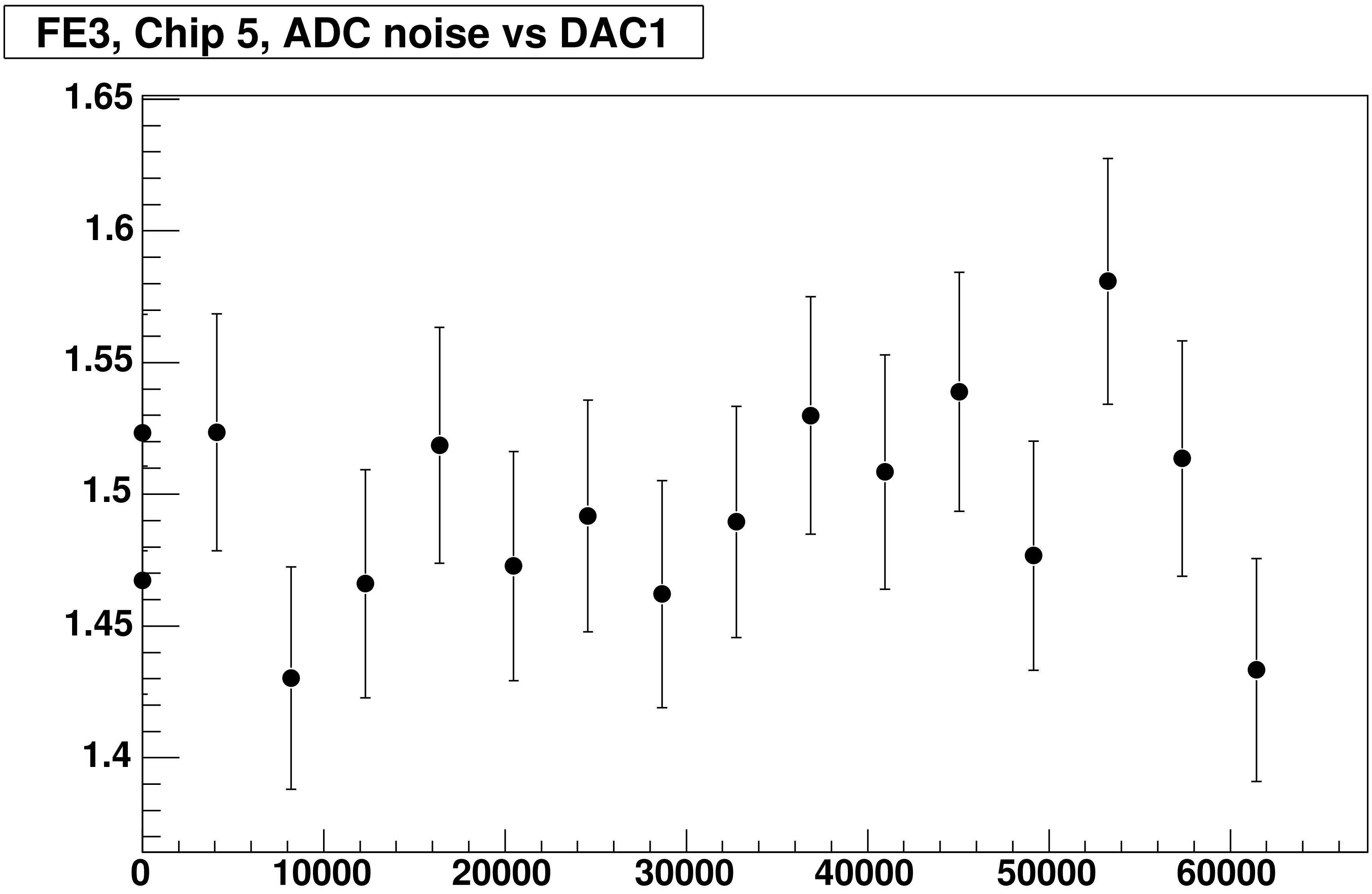
FE3, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1475 / 11
p0 33.18 ± 0.04219
p1 0.4518 ± 1.364e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

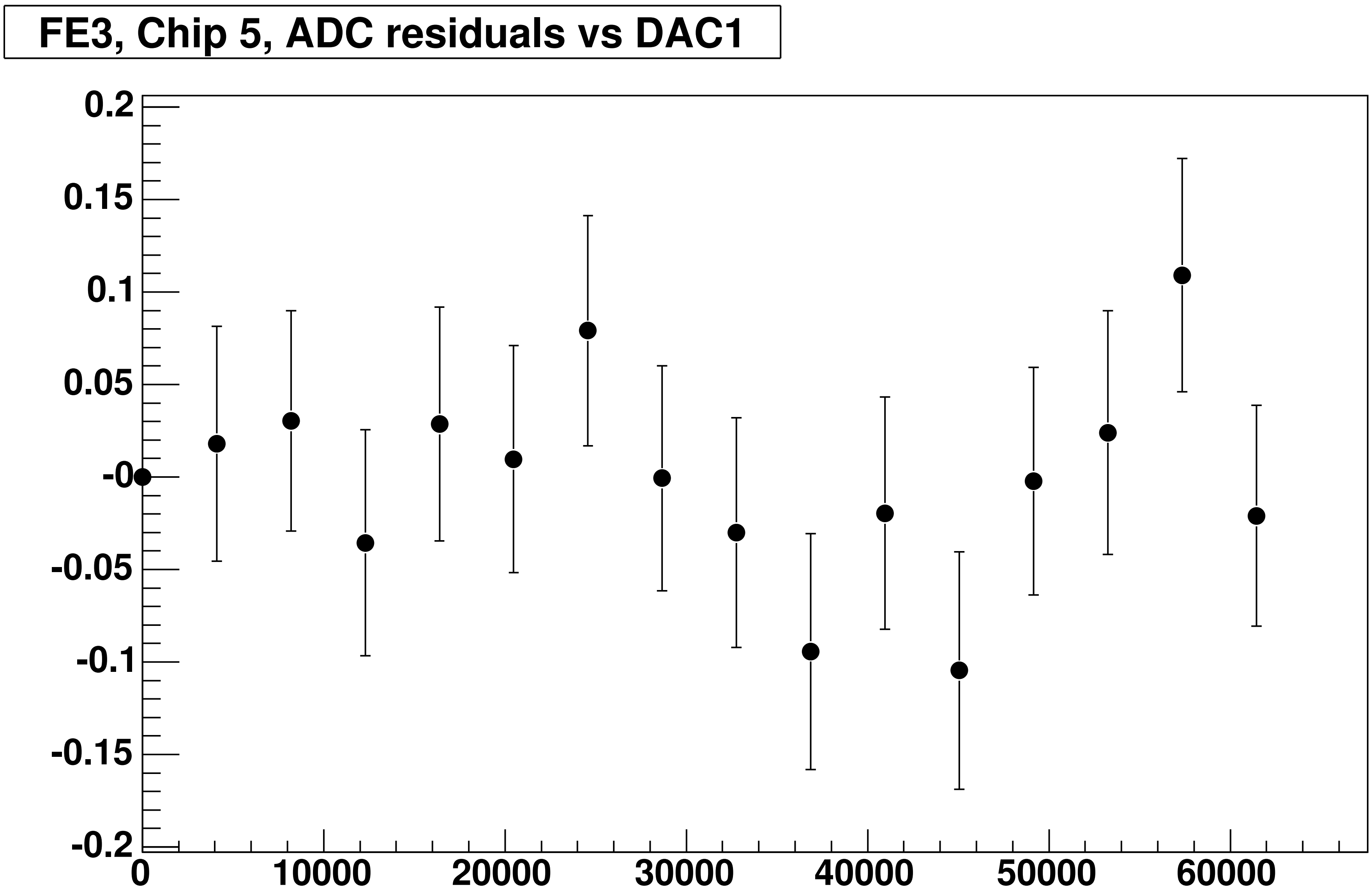

FE3, Chip 5, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

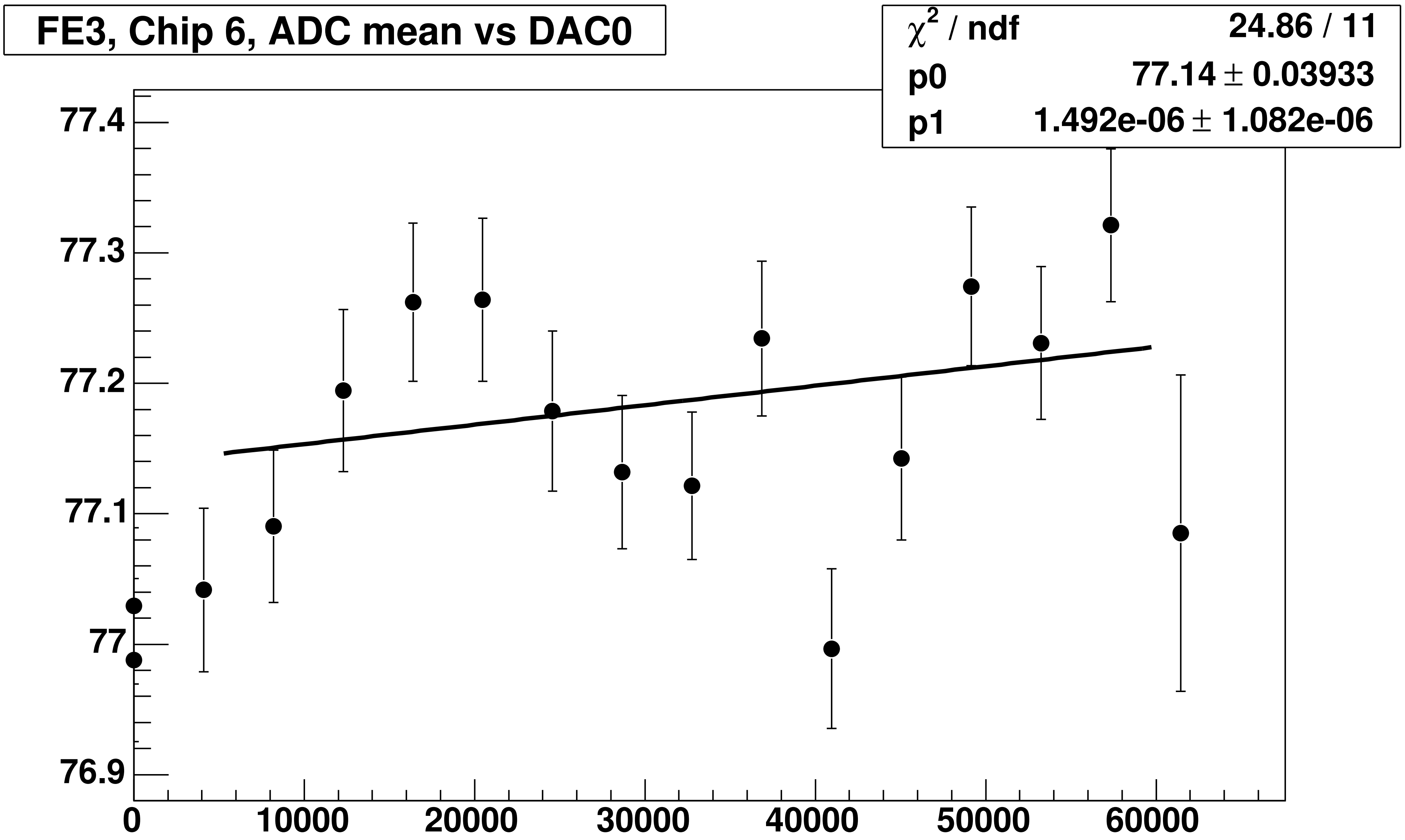


FE3, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

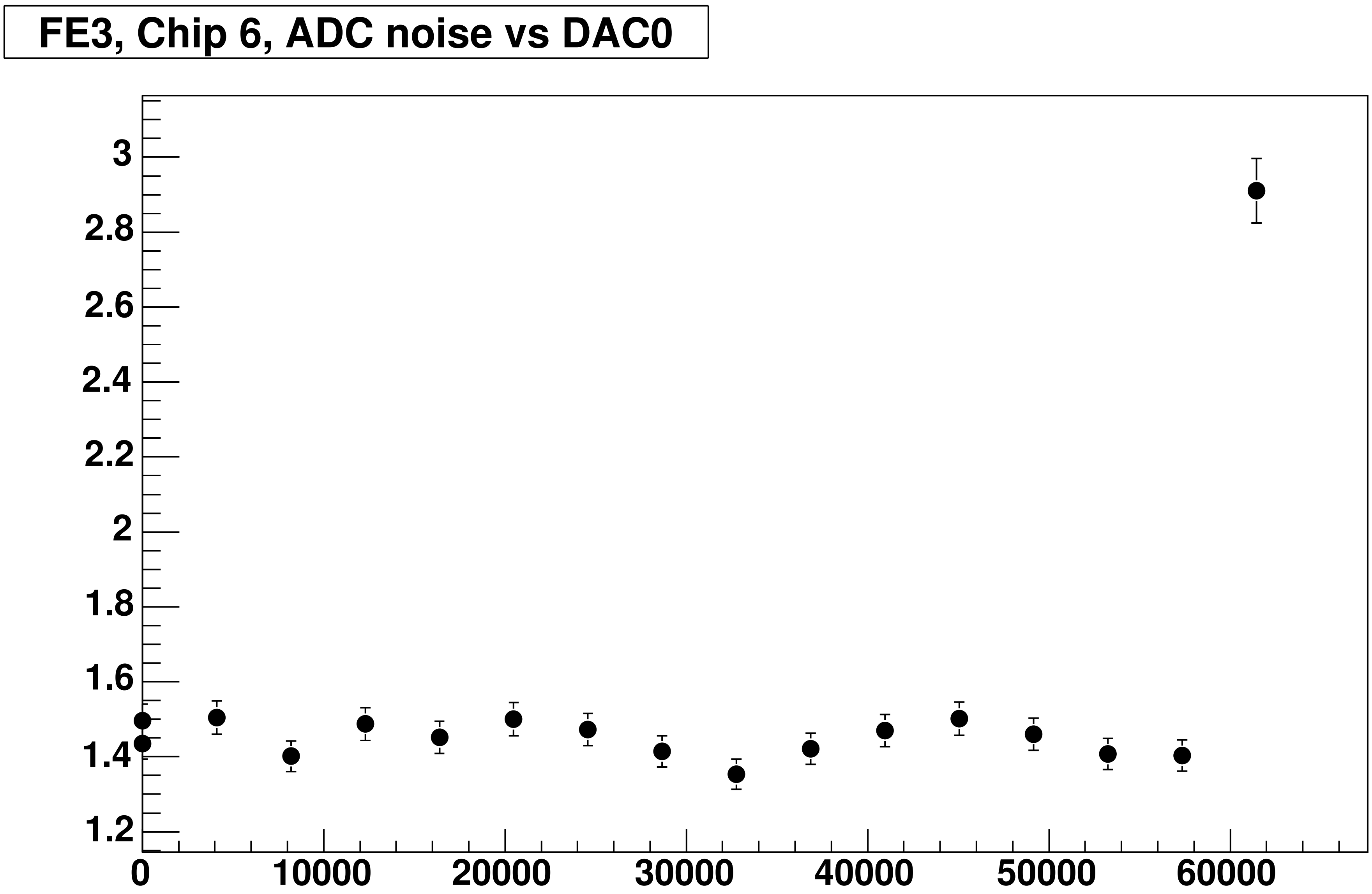

FE3, Chip 5, ADC mean vs DAC1
χ^2 / ndf 10.76 / 11
p0 30.28 ± 0.04025
p1 1.257e-06 ± 1.127e-06
30.55
30.5
30.45
30.4
30.35
30.3
30.25
30.2
30.15
0
10000
20000
30000
40000
50000
60000


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

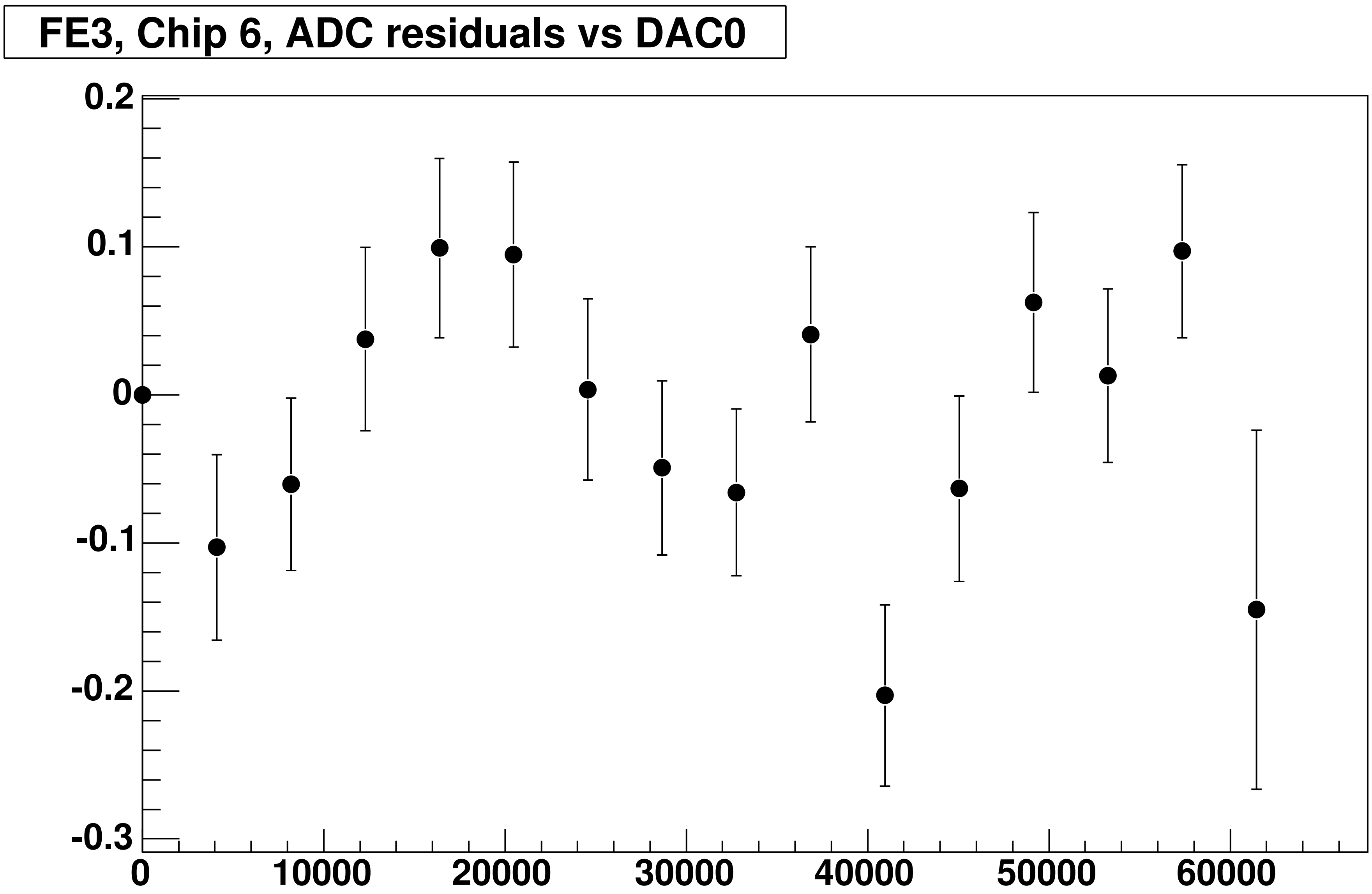

FE3, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



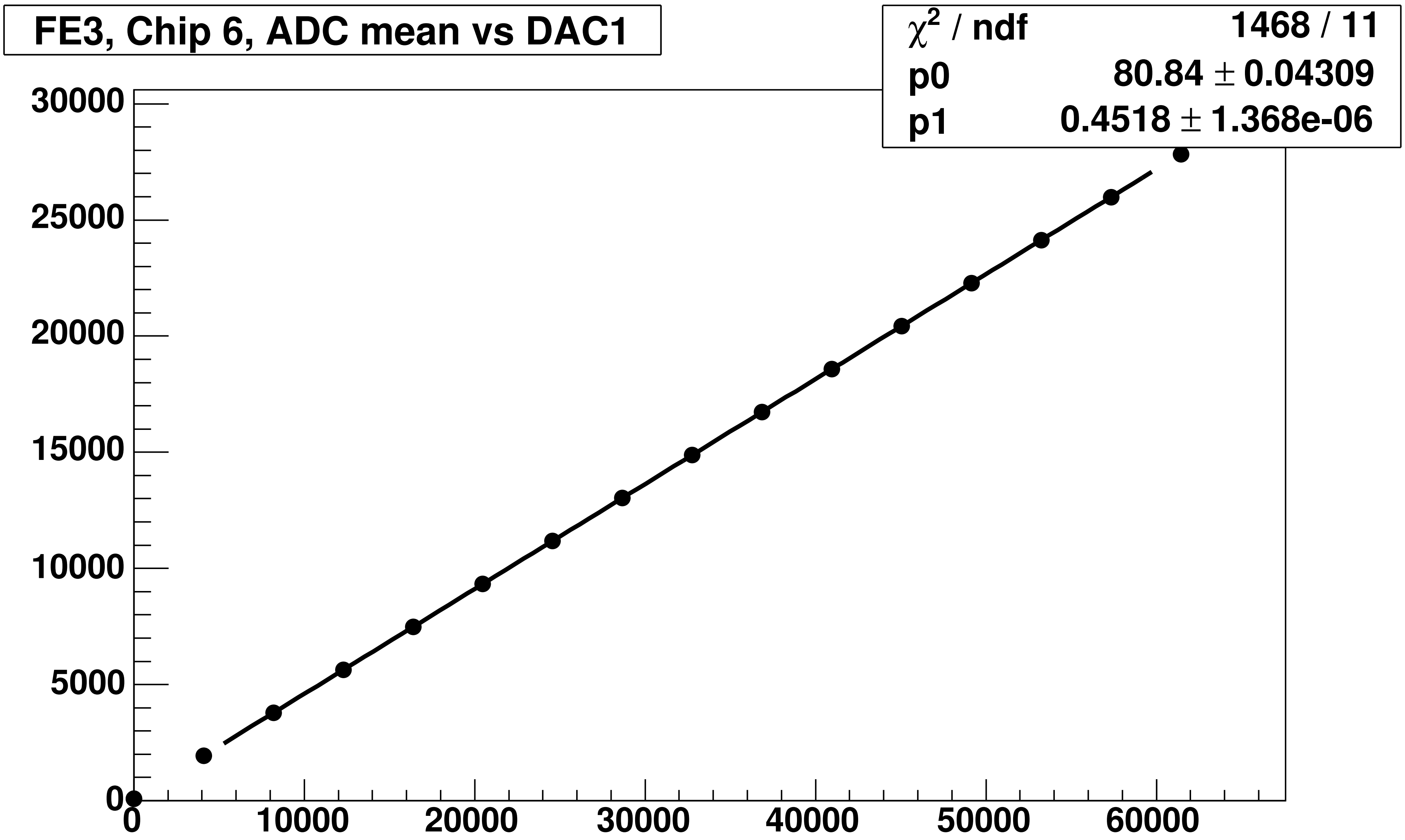
FE3, Chip 6, ADC mean vs DAC0
χ² / ndf 24.86 / 11
p0 77.14 ± 0.03933
p1 1.492e-06 ± 1.082e-06
77.4
77.3
77.2
77.1
77
76.9
0
10000
20000
30000
40000
50000
60000

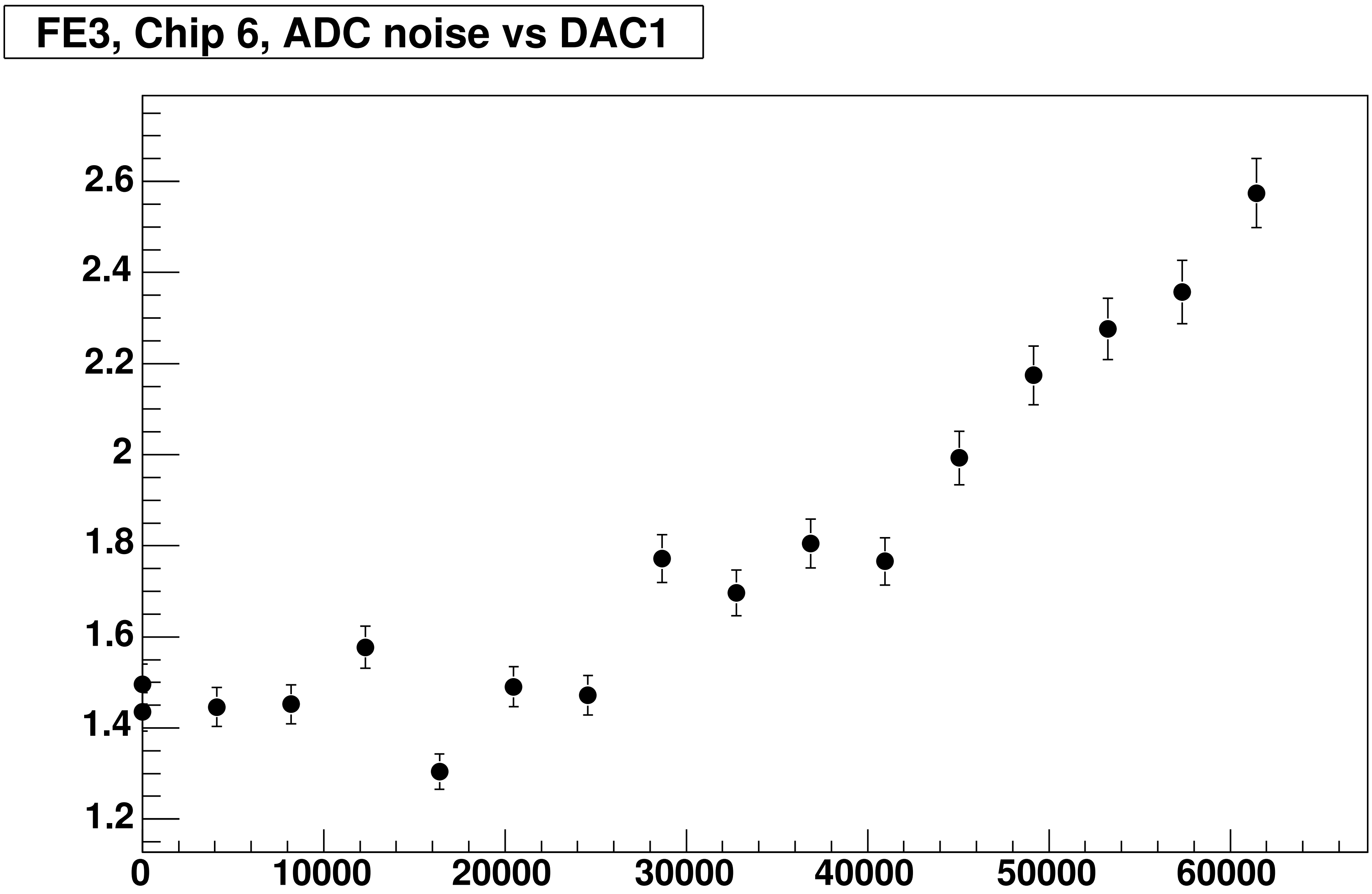


FE3, Chip 6, ADC noise vs DAC0
1.2
1.4
1.6
1.8
2
2.2
2.4
2.6
2.8
3
0
10000
20000
30000
40000
50000
60000

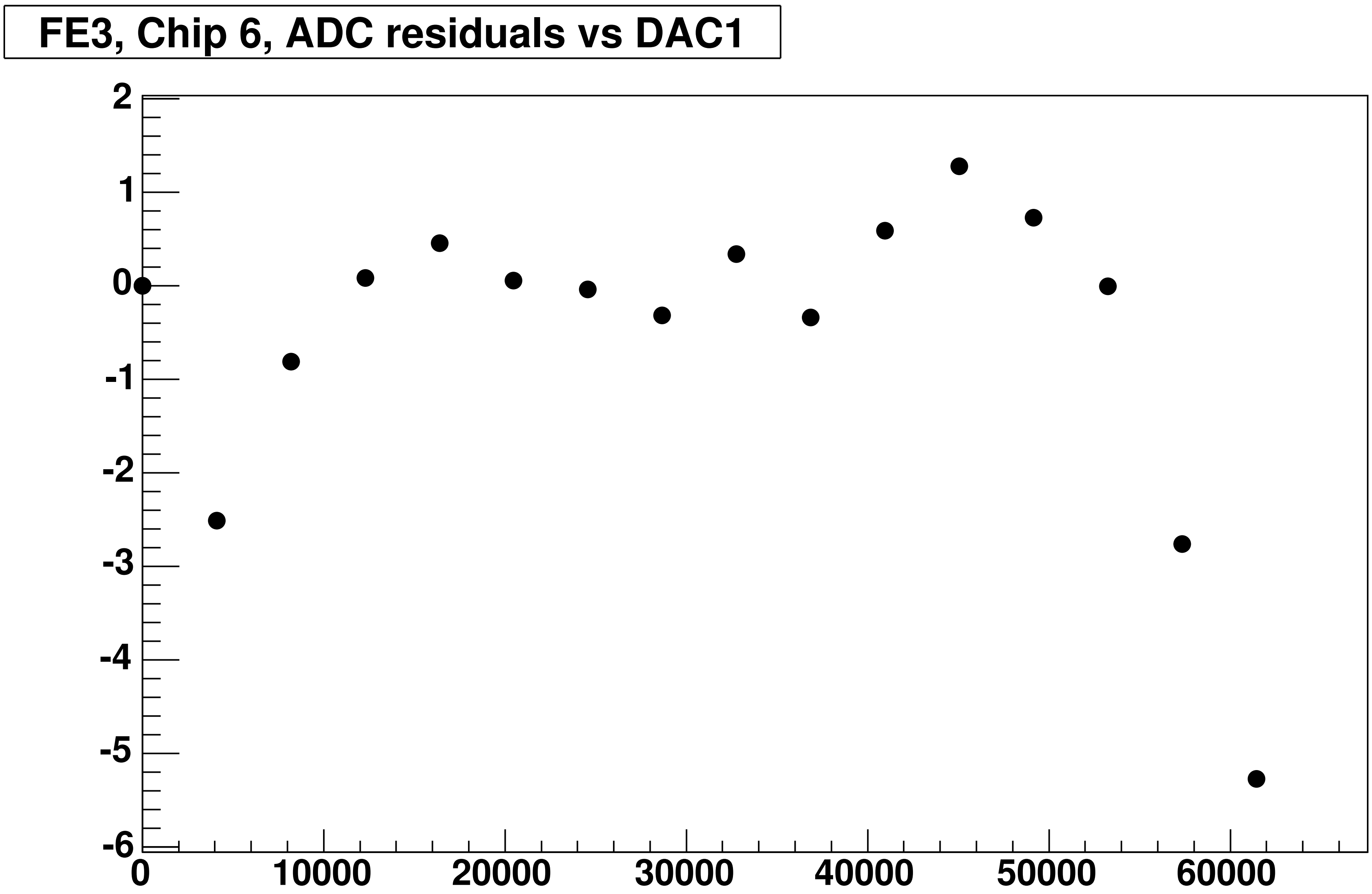


FE3, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

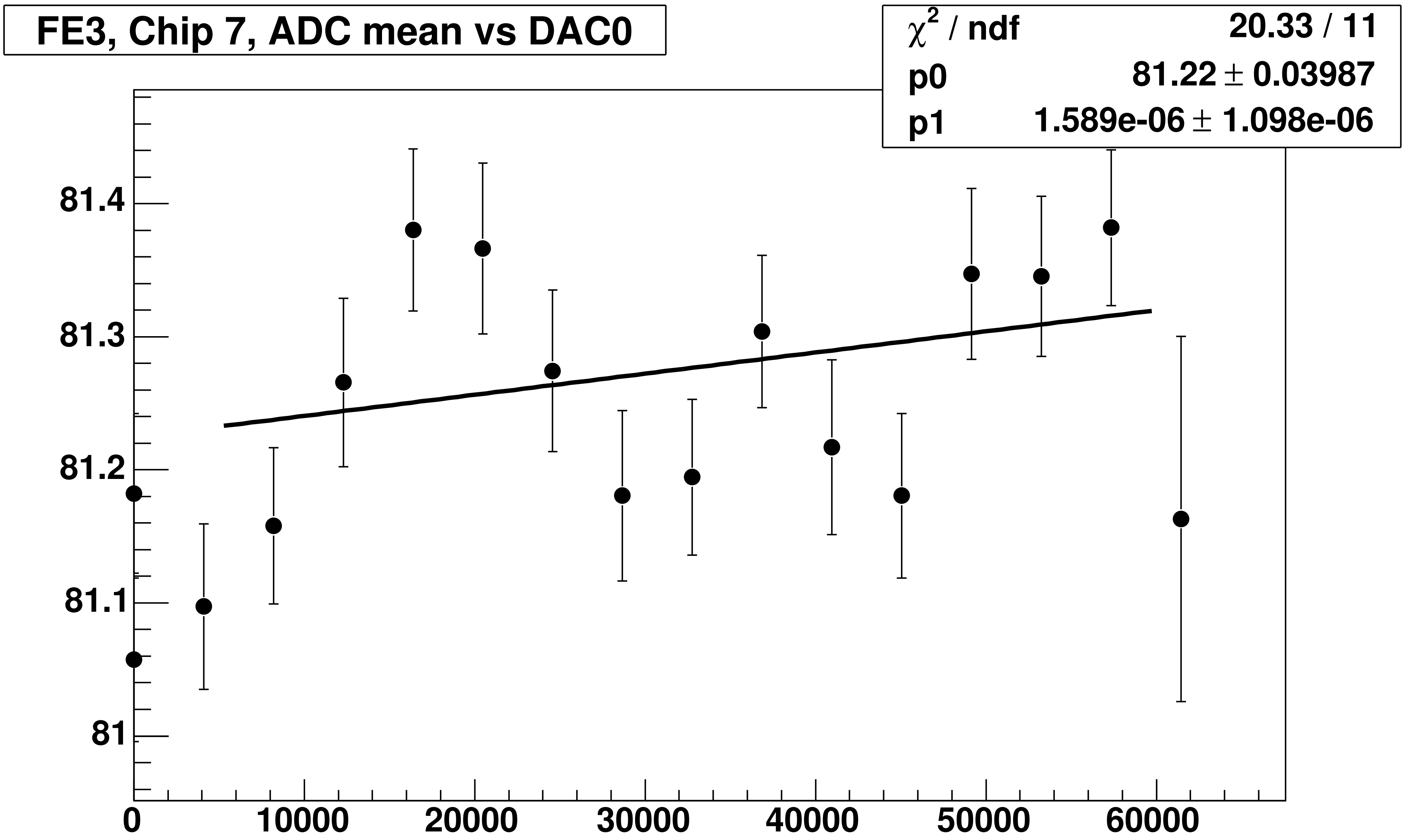

FE3, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1468 / 11
p0 80.84 ± 0.04309
p1 0.4518 ± 1.368e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

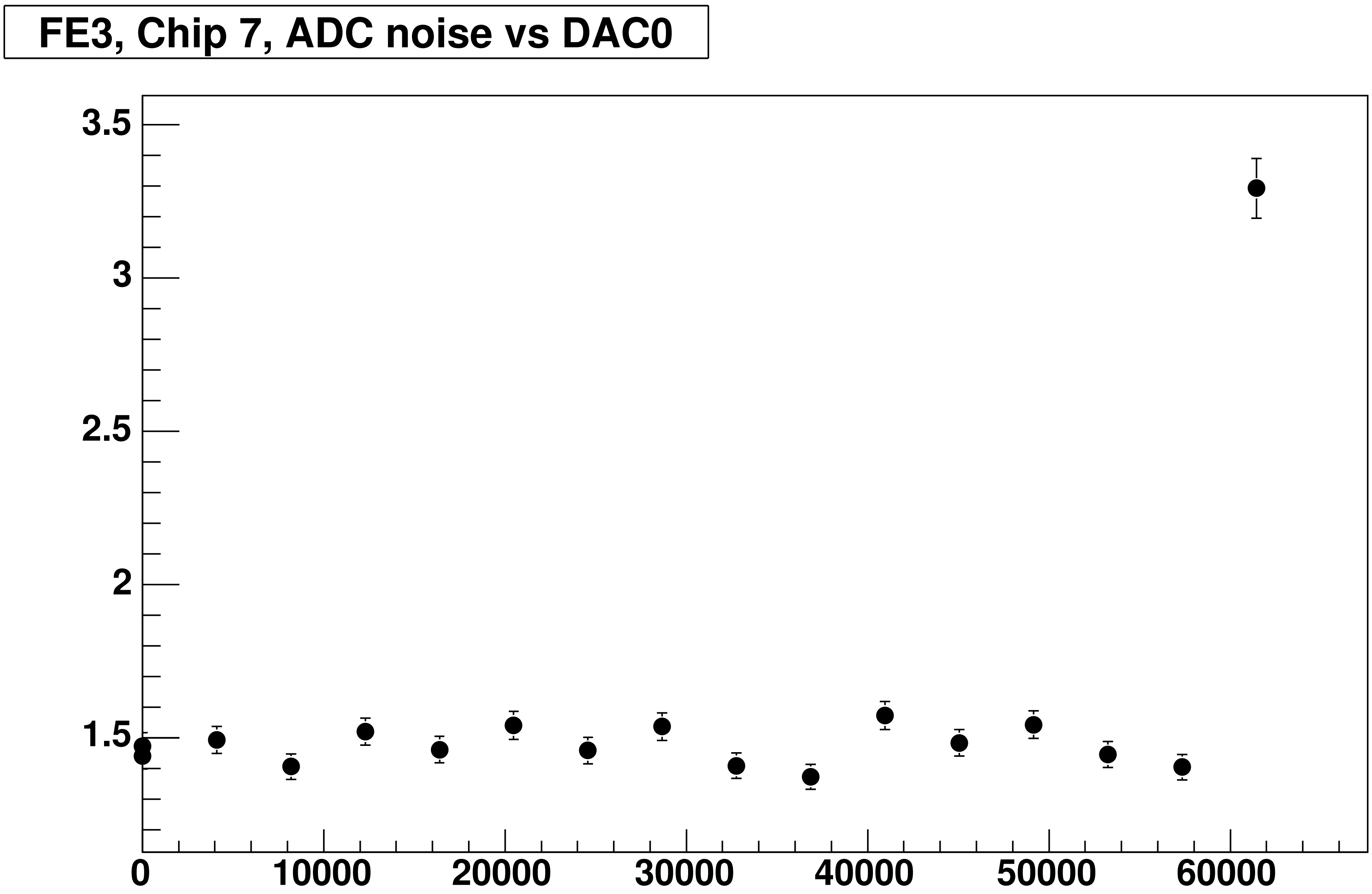


FE3, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

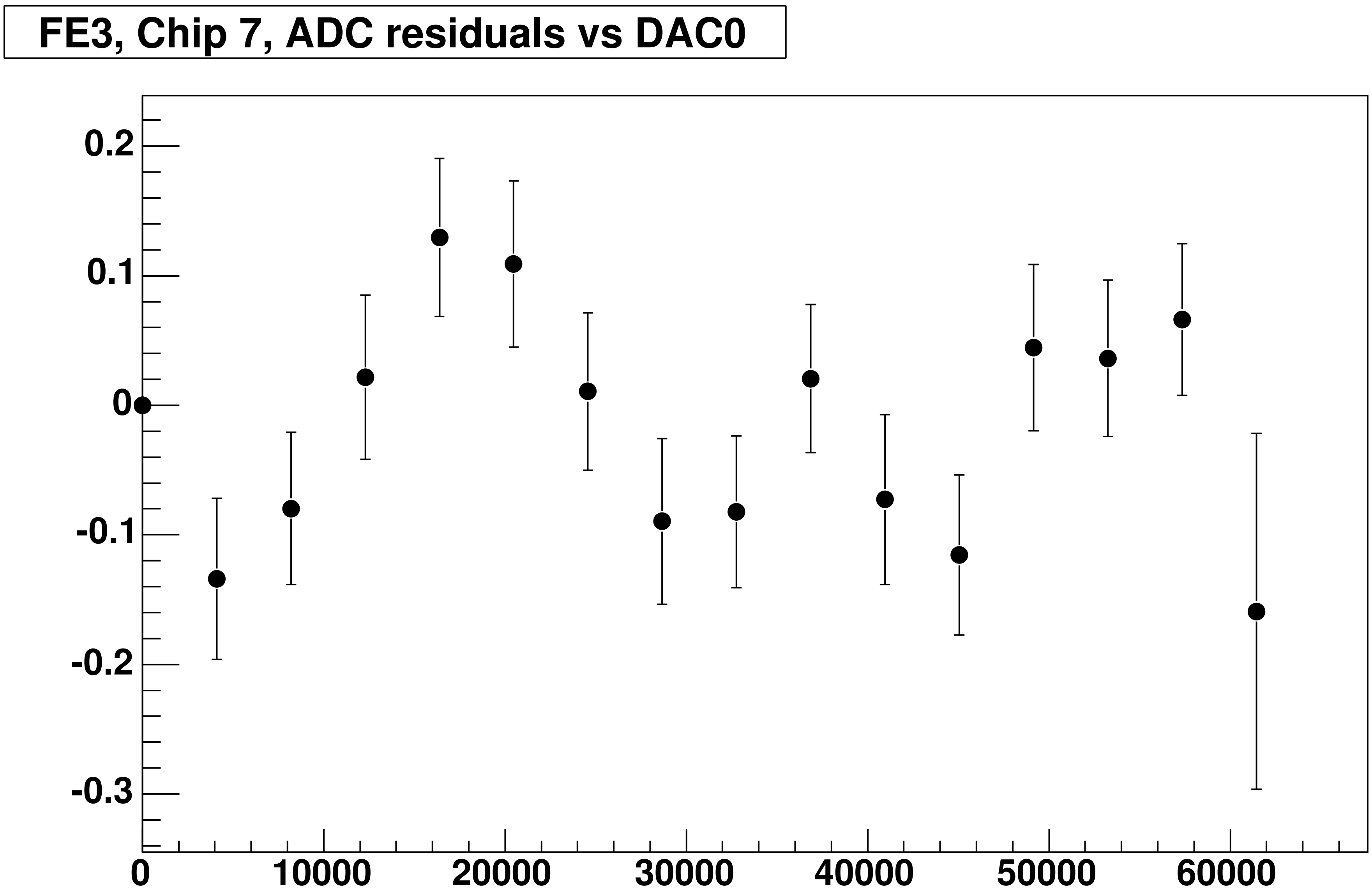


FE3, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

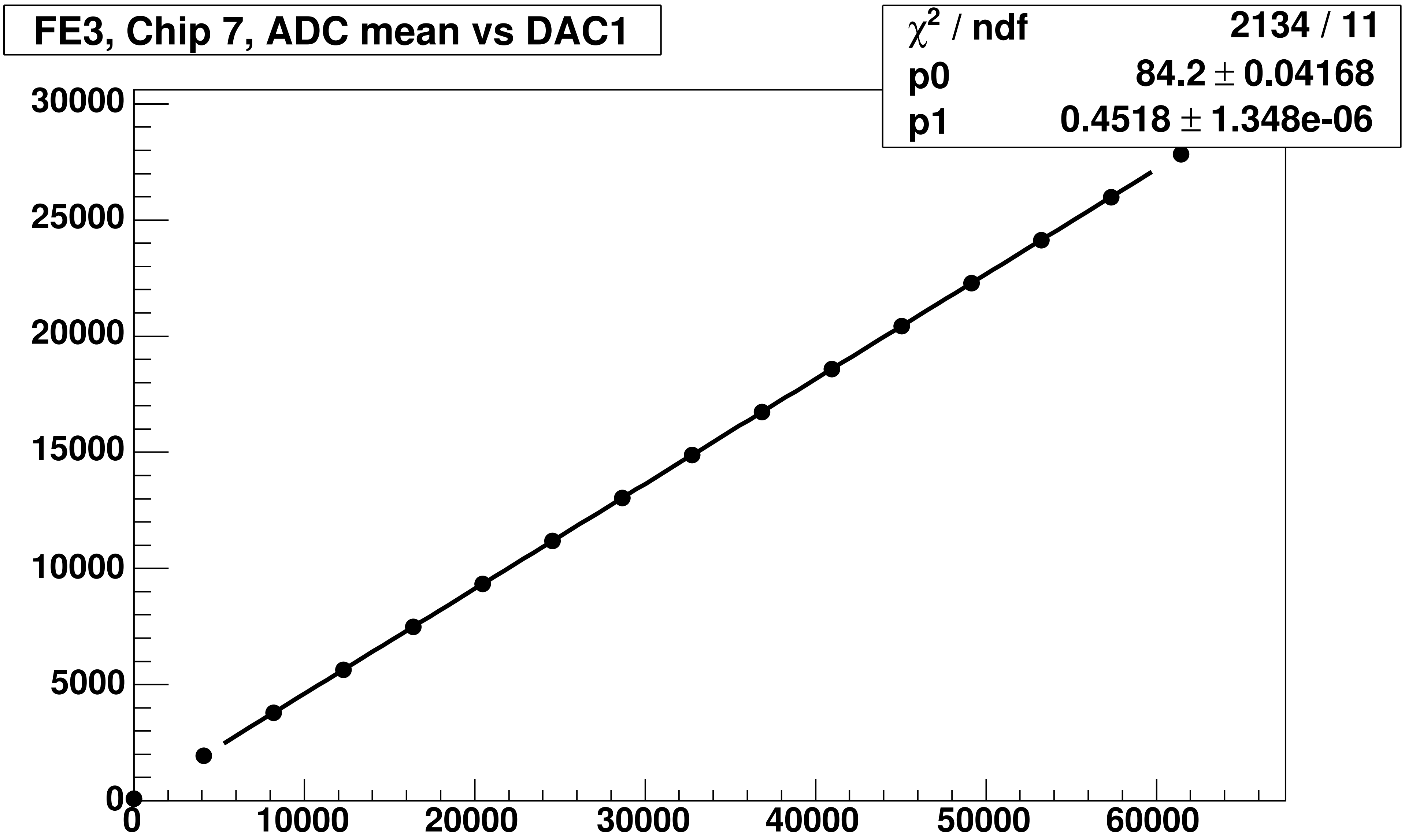

FE3, Chip 7, ADC mean vs DAC0
χ^2 / ndf 20.33 / 11
p0 81.22 ± 0.03987
p1 1.589e-06 ± 1.098e-06
81.4
81.3
81.2
81.1
81
0
10000
20000
30000
40000
50000
60000

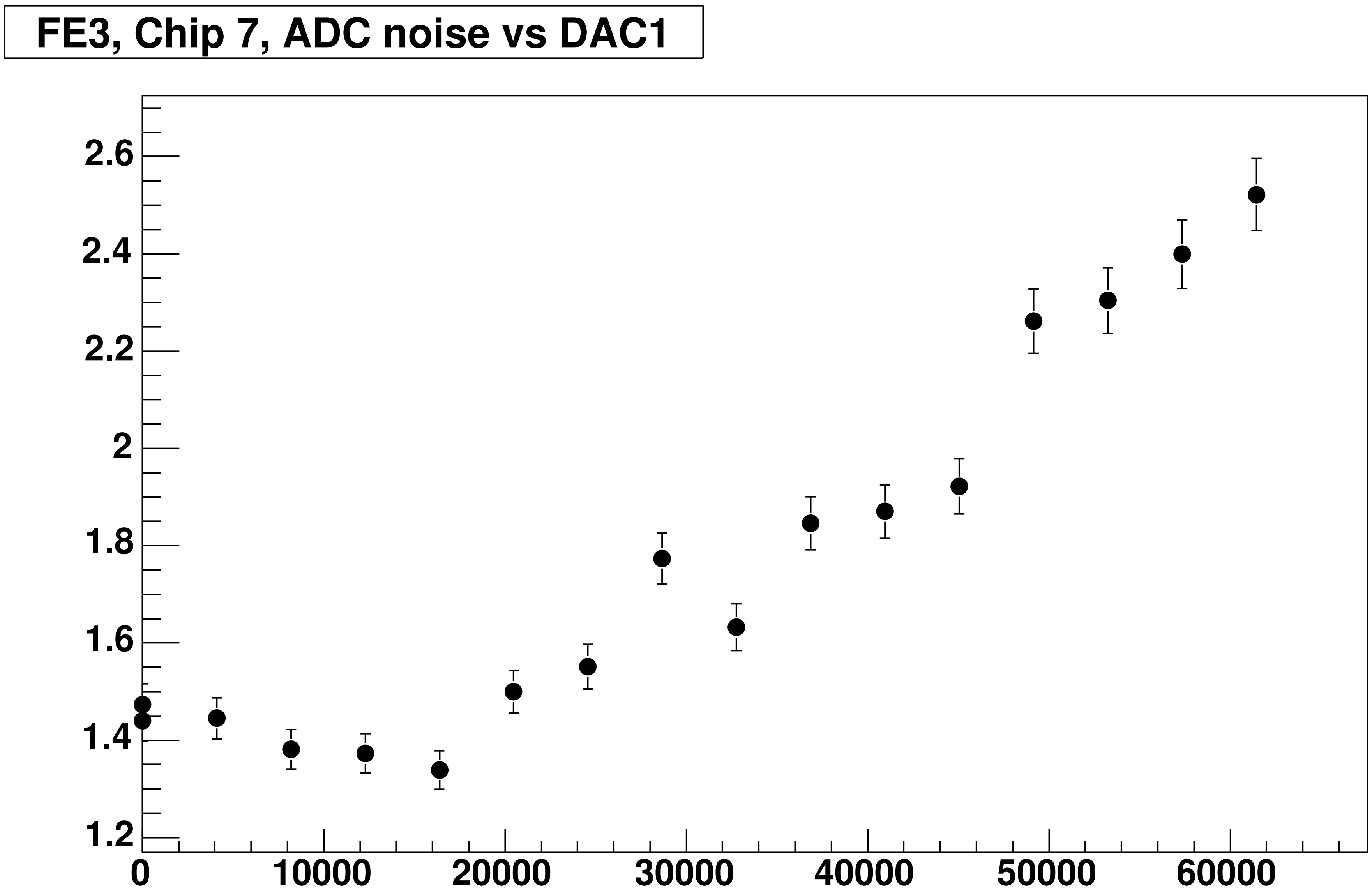


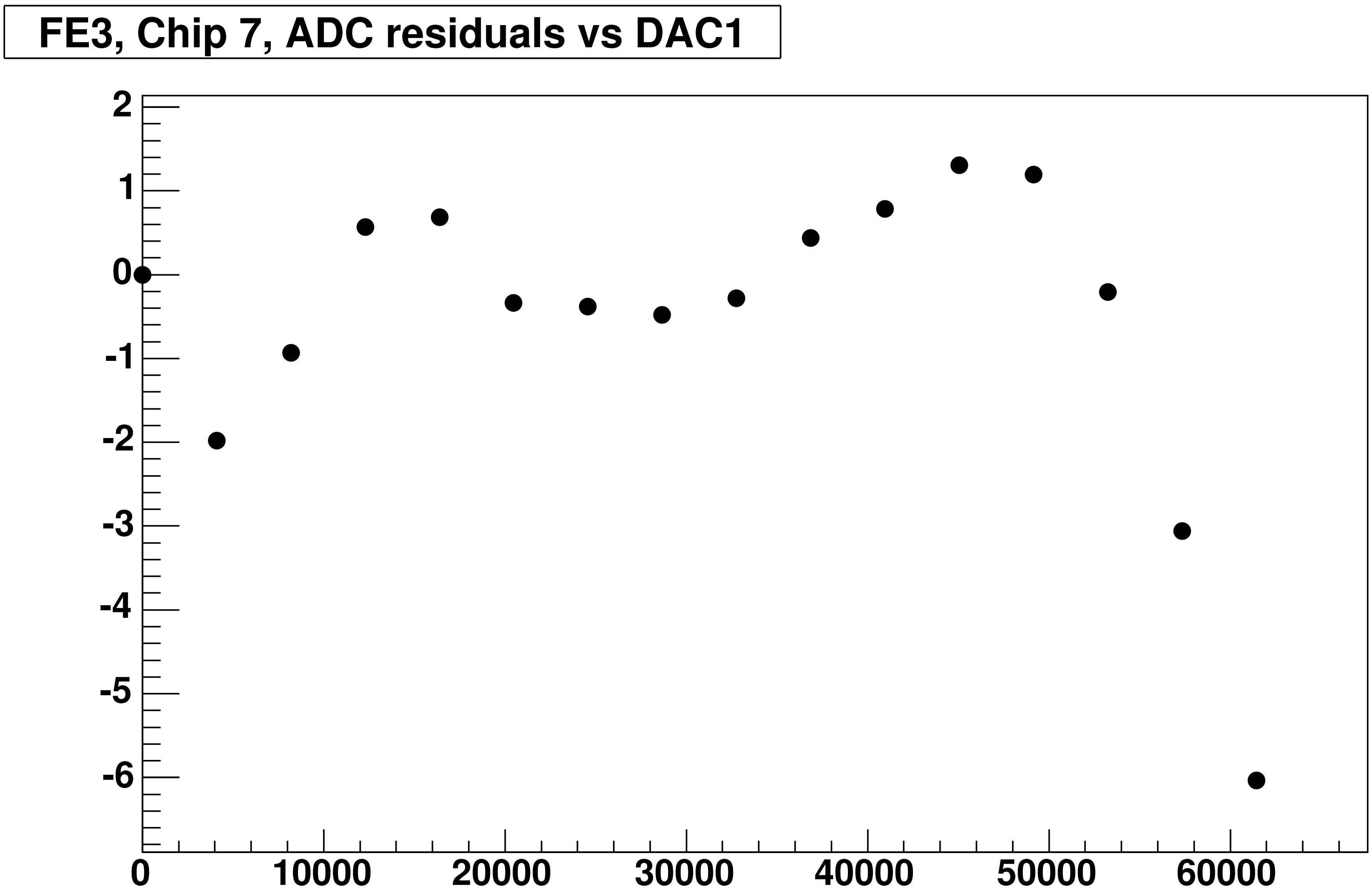
FE3, Chip 7, ADC noise vs DAC0
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

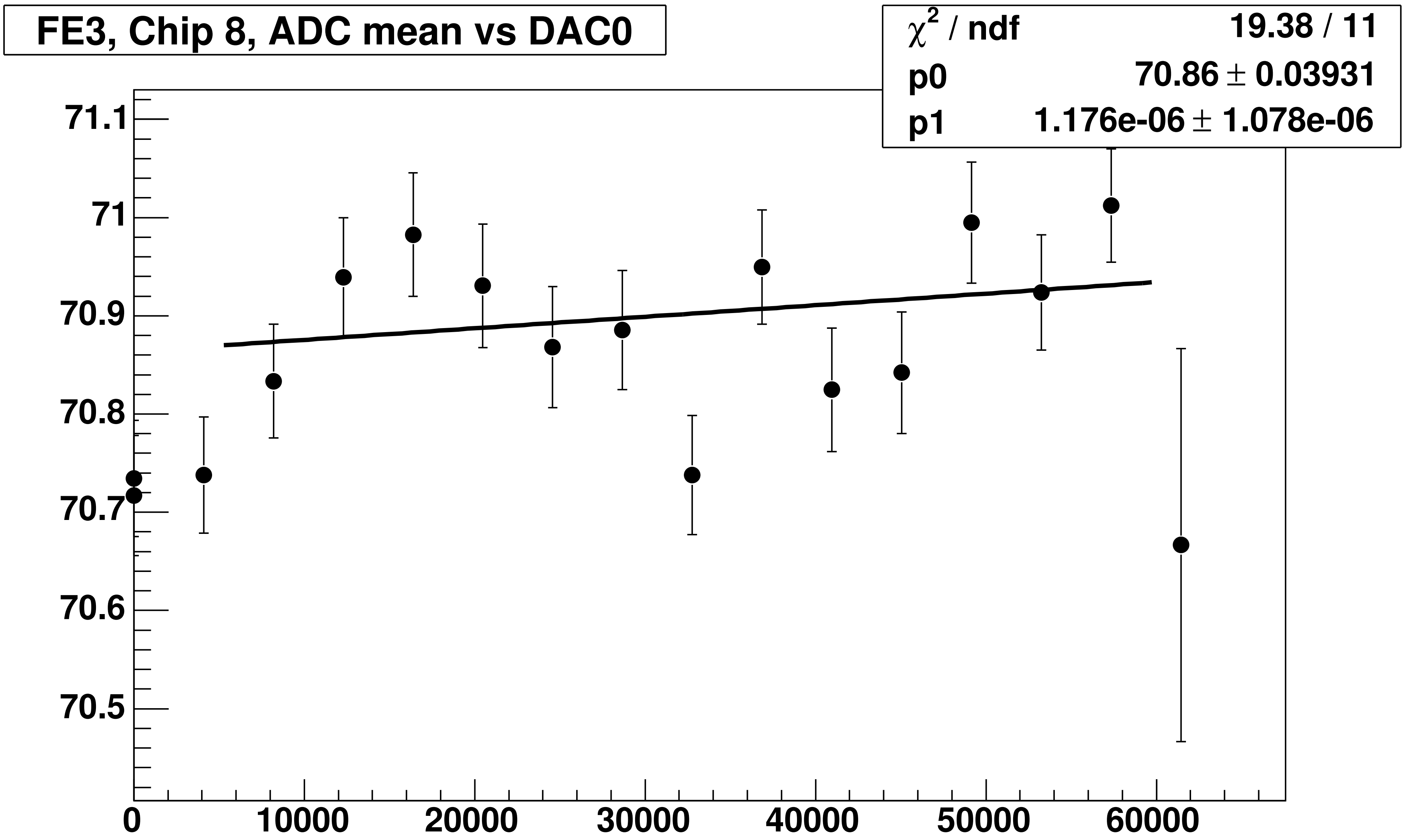


FE3, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

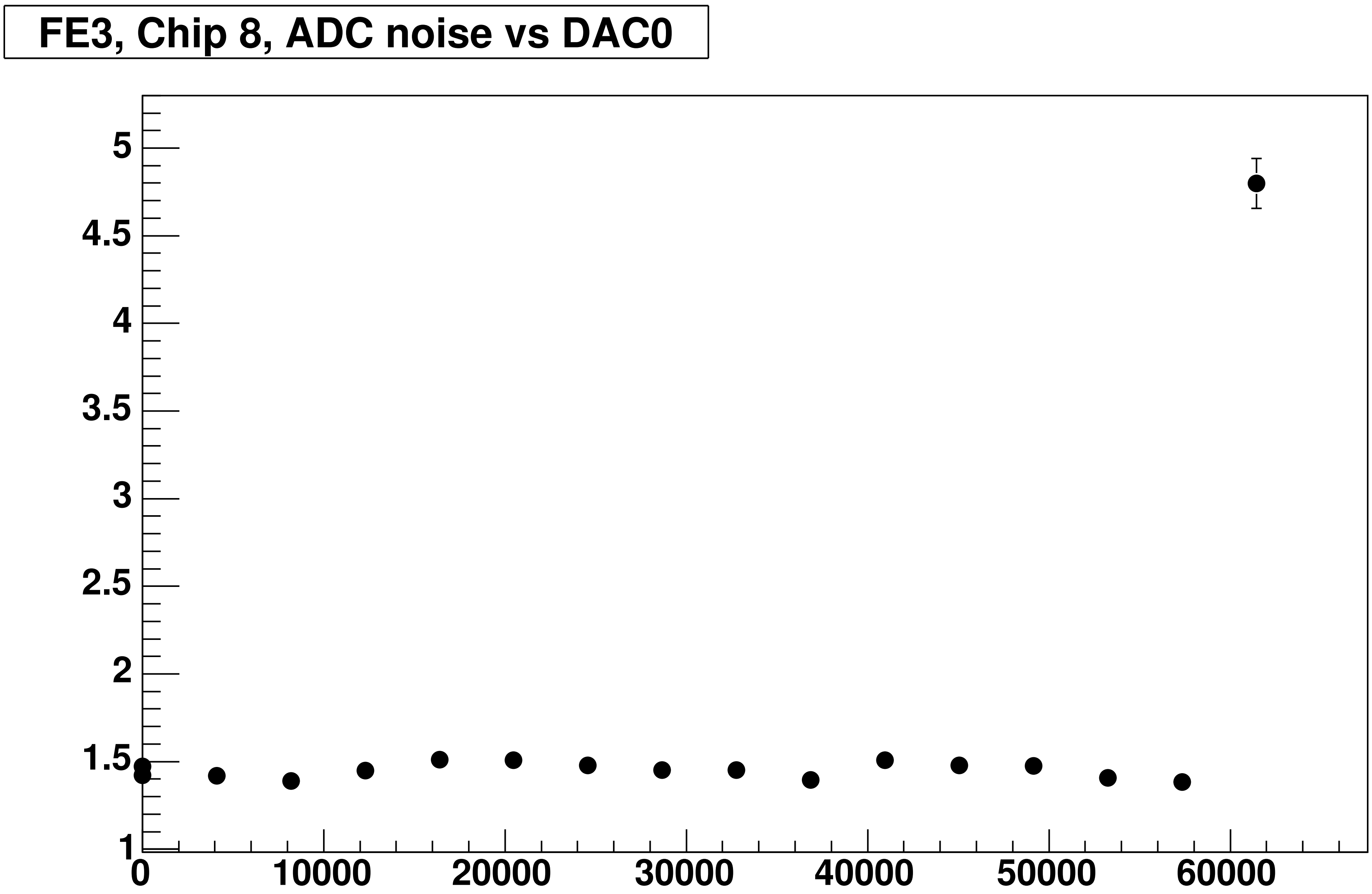

FE3, Chip 7, ADC mean vs DAC1
χ² / ndf 2134 / 11
p0 84.2 ± 0.04168
p1 0.4518 ± 1.348e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

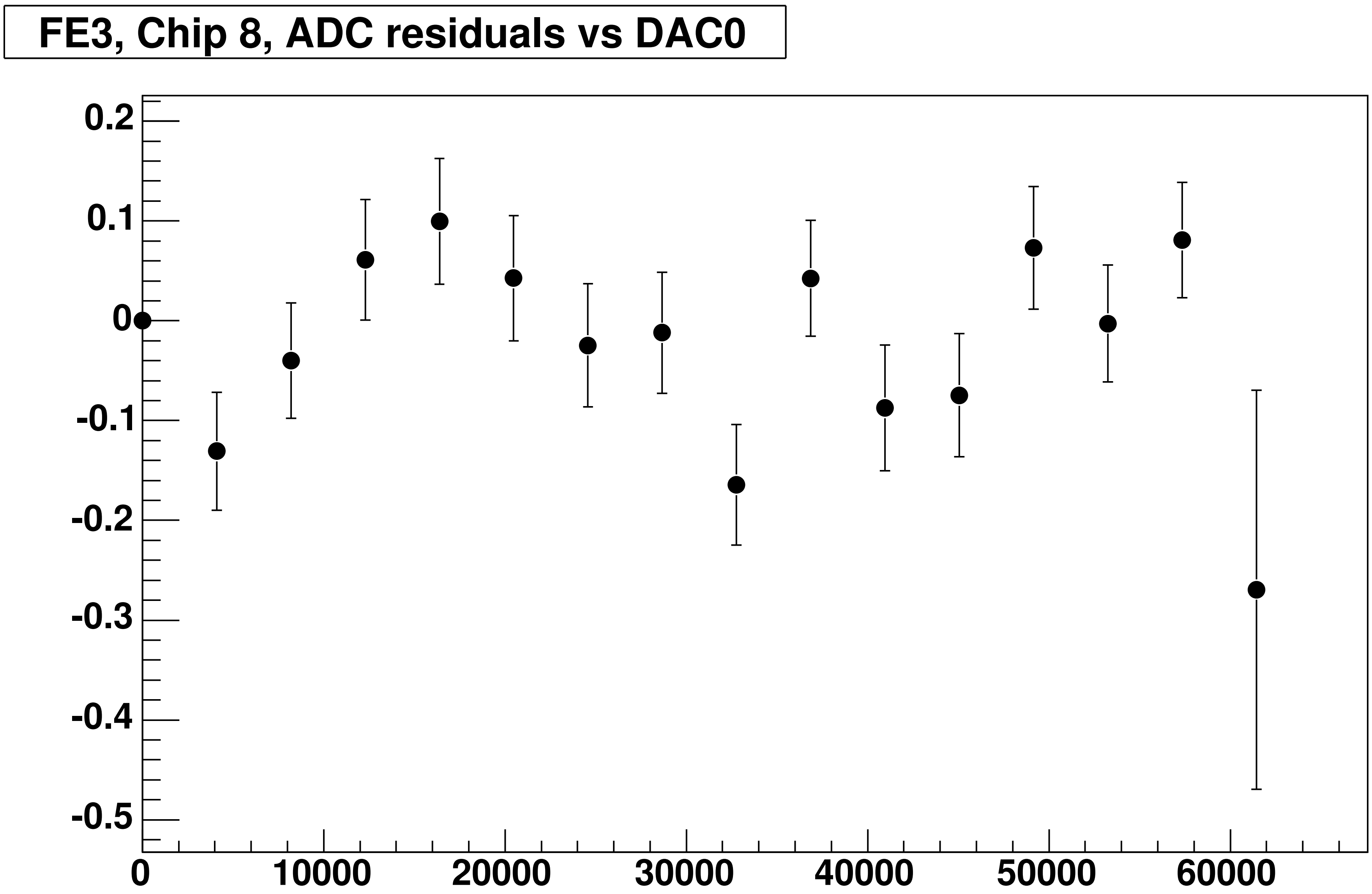

FE3, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

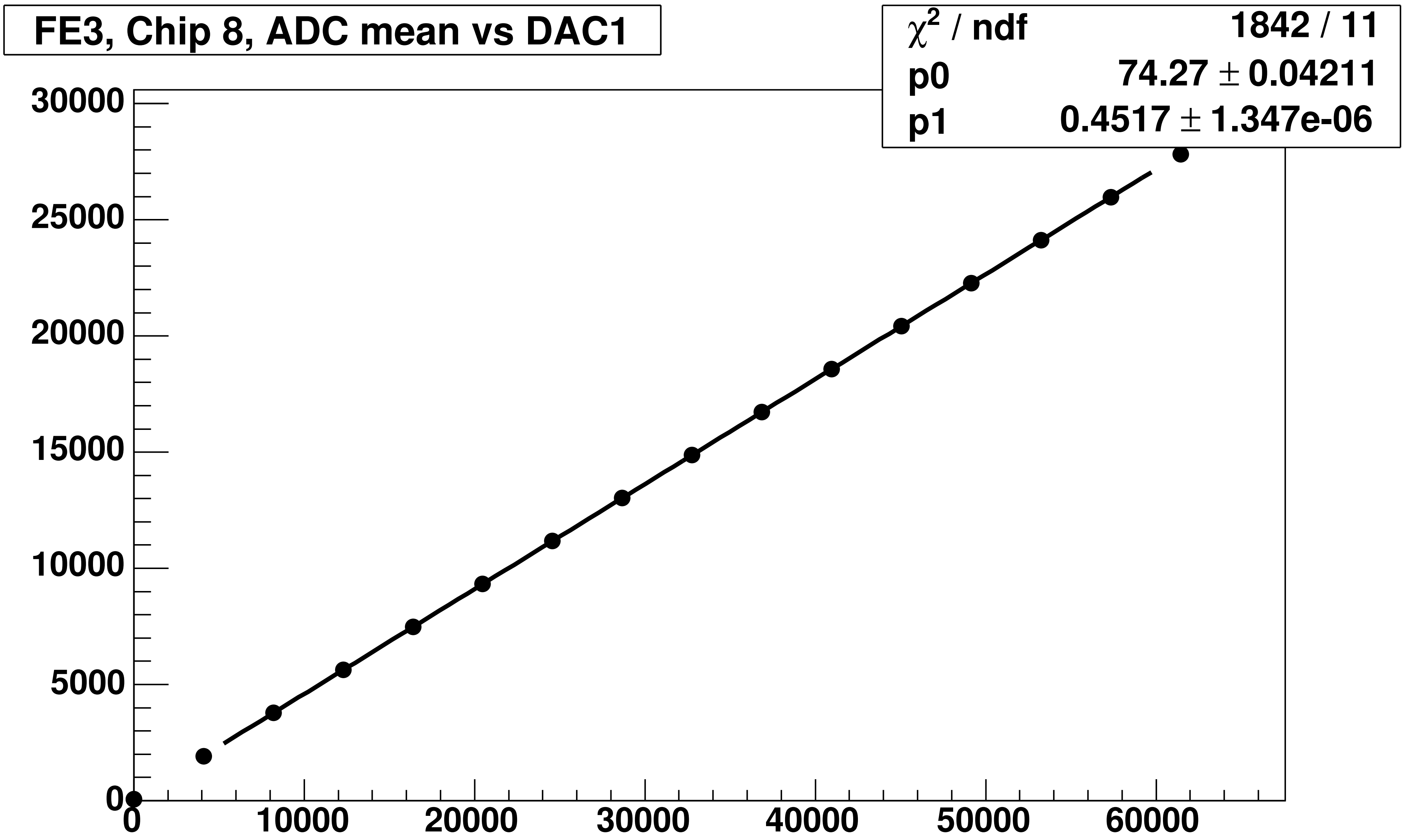


FE3, Chip 8, ADC mean vs DAC0
χ^2 / ndf 19.38 / 11
p0 70.86 ± 0.03931
p1 1.176e-06 ± 1.078e-06
71.1
71
70.9
70.8
70.7
70.6
70.5
0
10000
20000
30000
40000
50000
60000

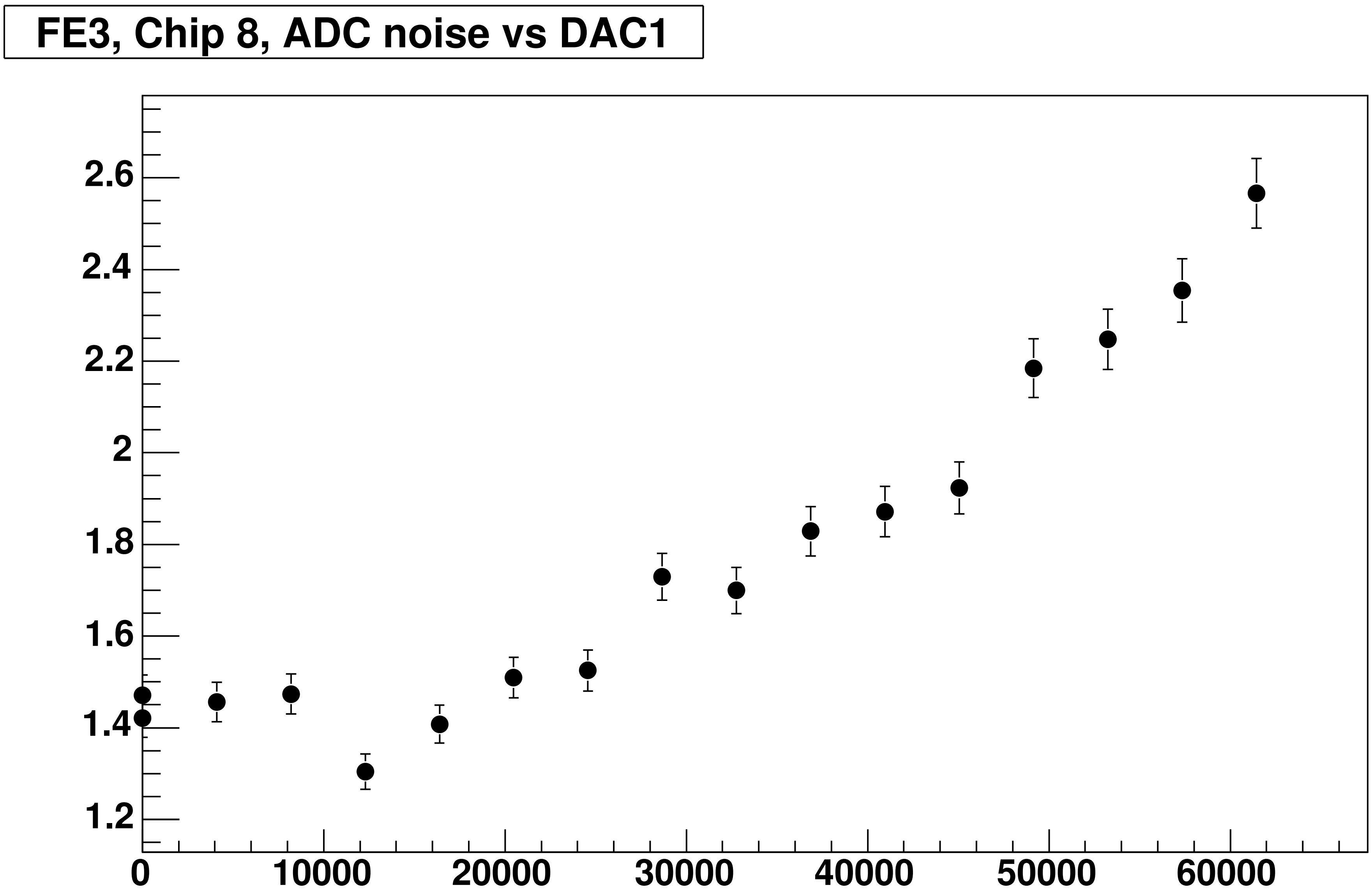

FE3, Chip 8, ADC noise vs DAC0
1
1.5
2
2.5
3
3.5
4
4.5
5
0
10000
20000
30000
40000
50000
60000

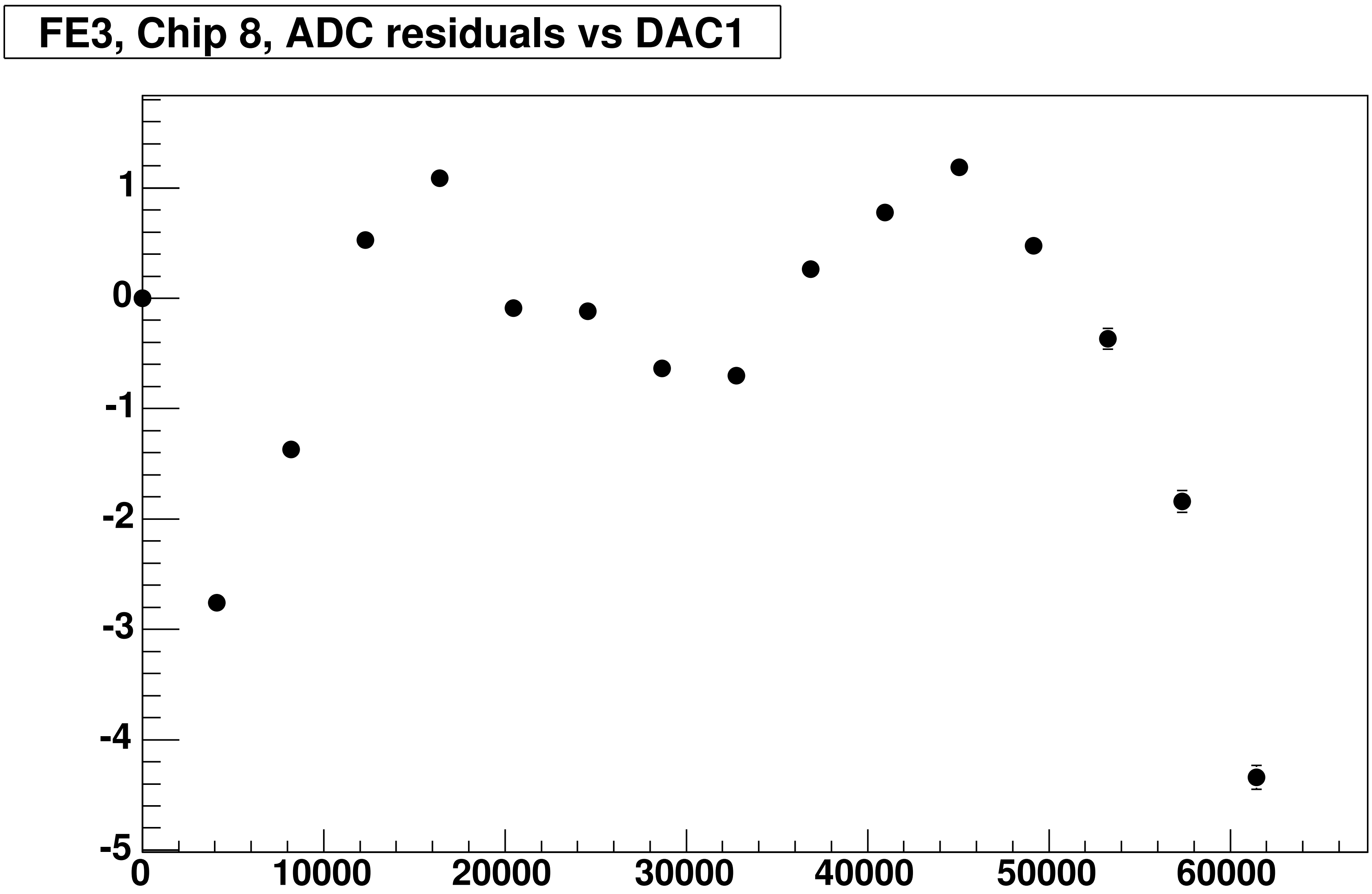


FE3, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

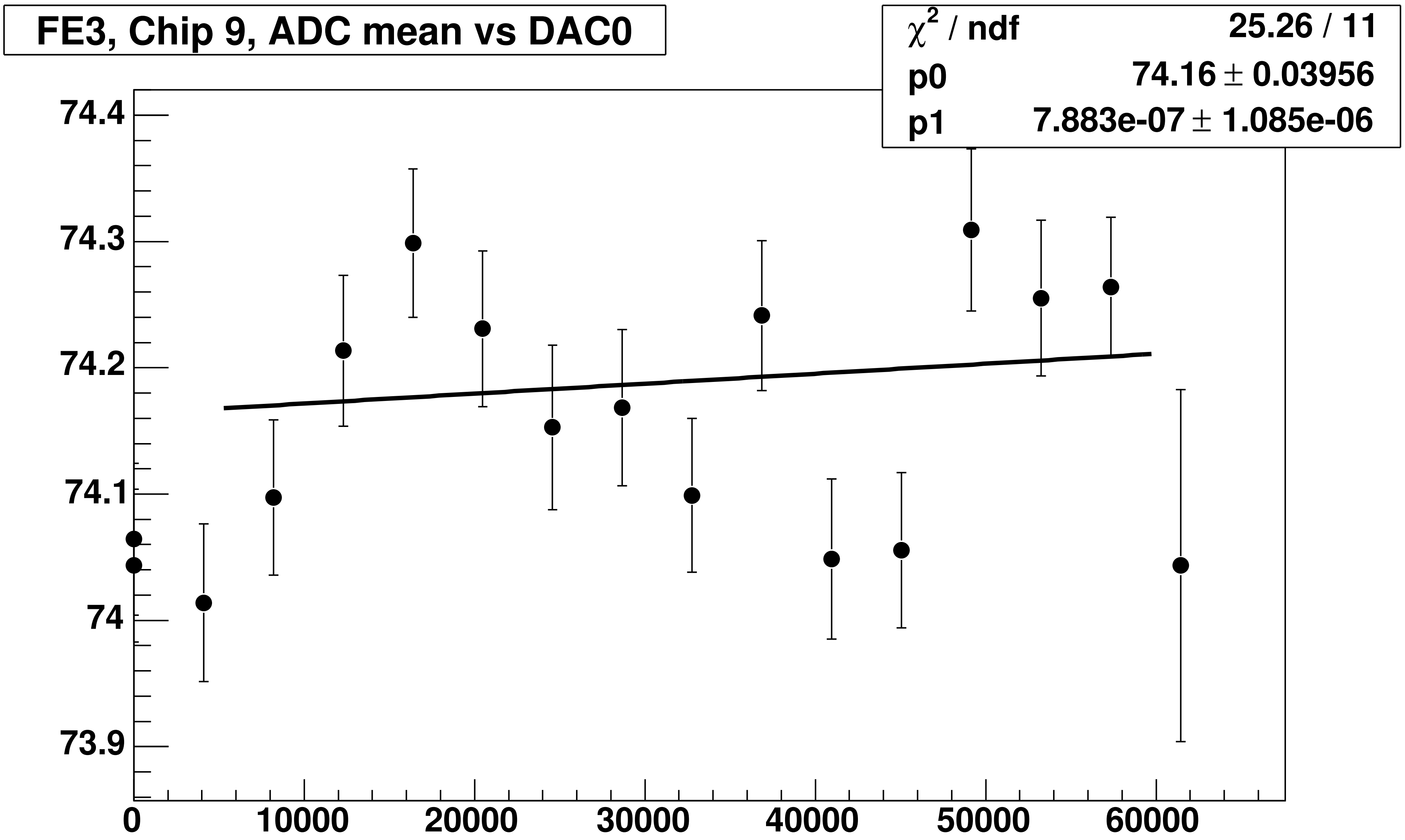


FE3, Chip 8, ADC mean vs DAC1
χ2 / ndf 1842 / 11
p0 74.27 ± 0.04211
p1 0.4517 ± 1.347e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

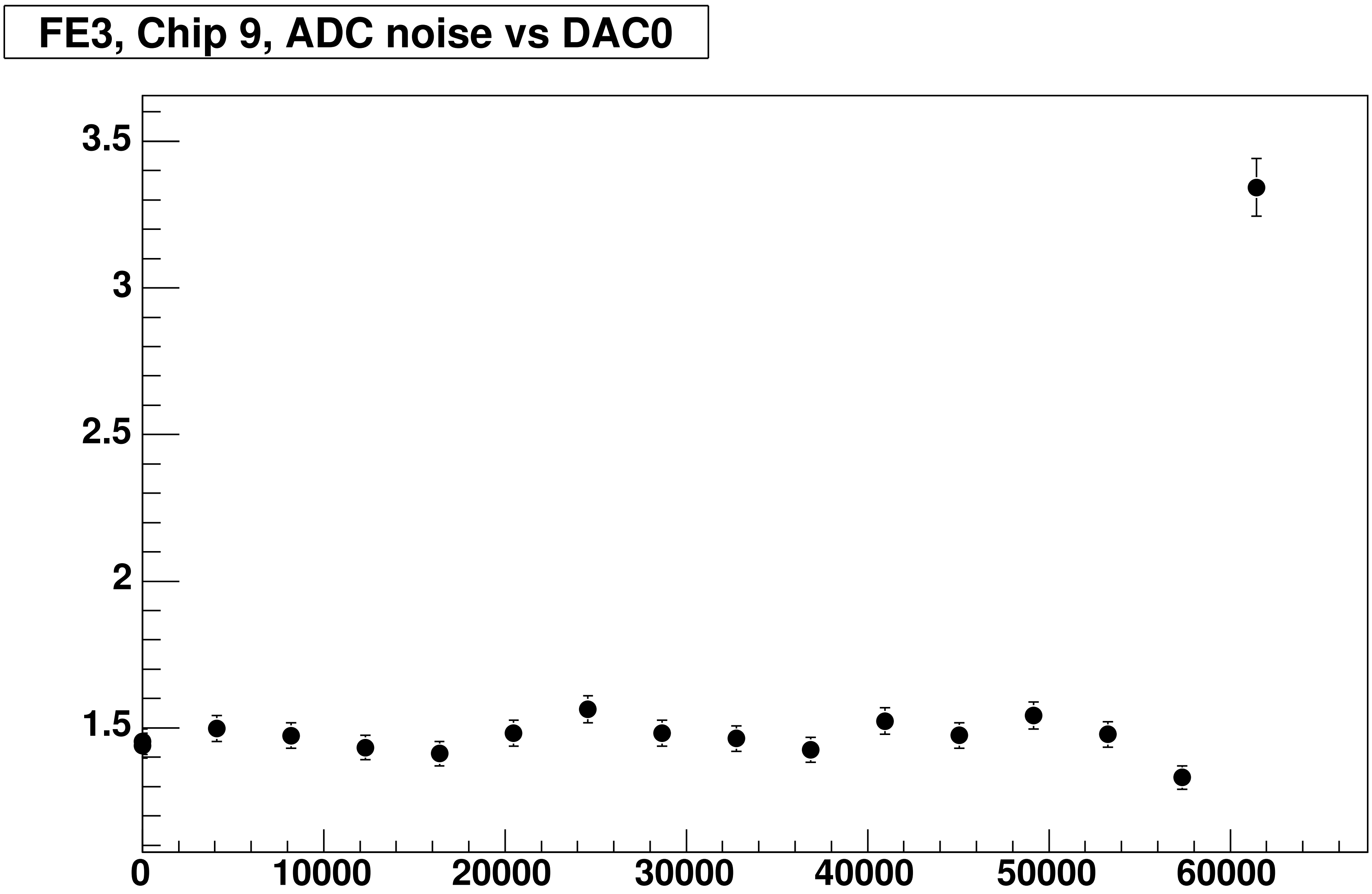

FE3, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

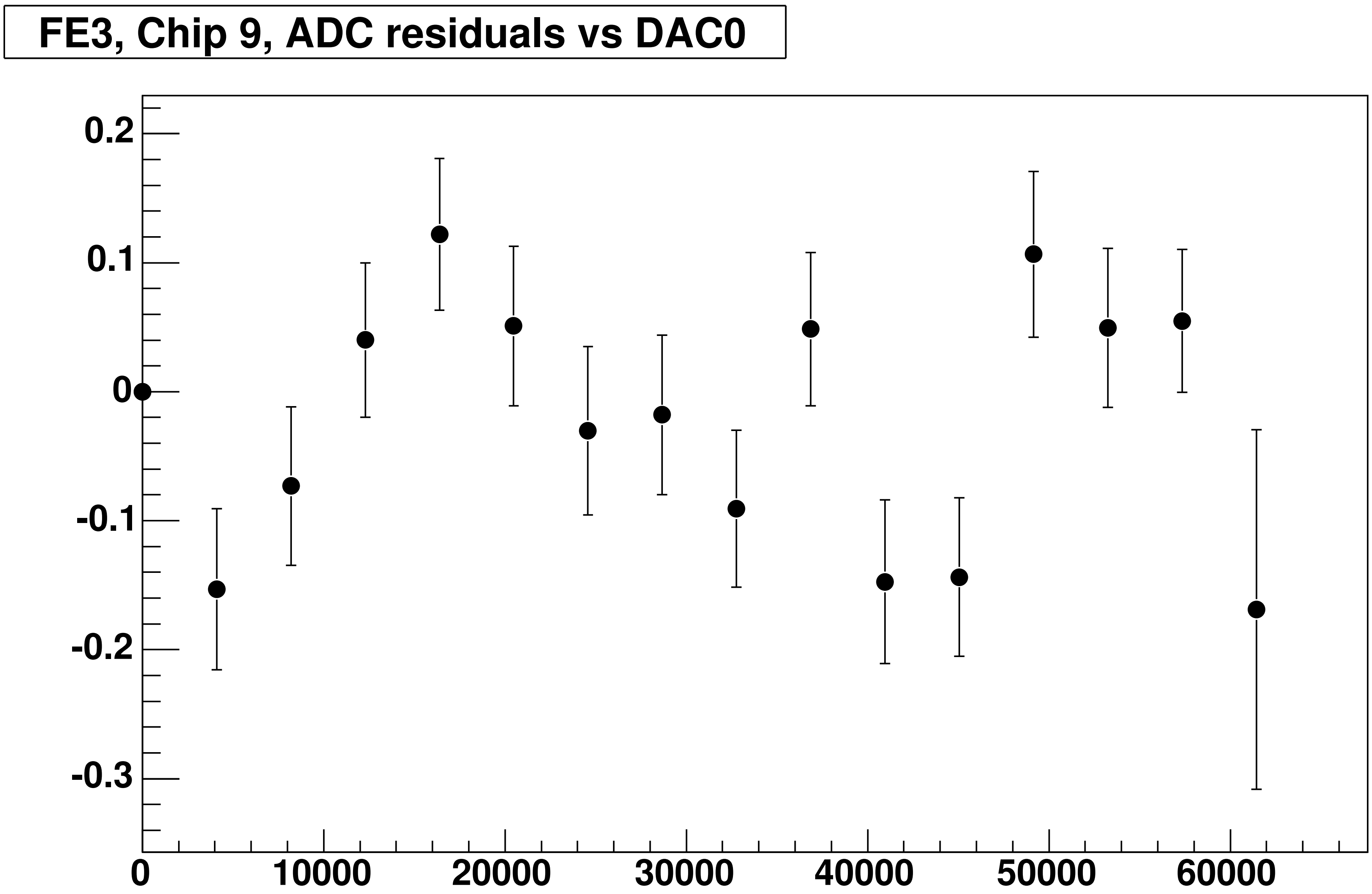


FE3, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

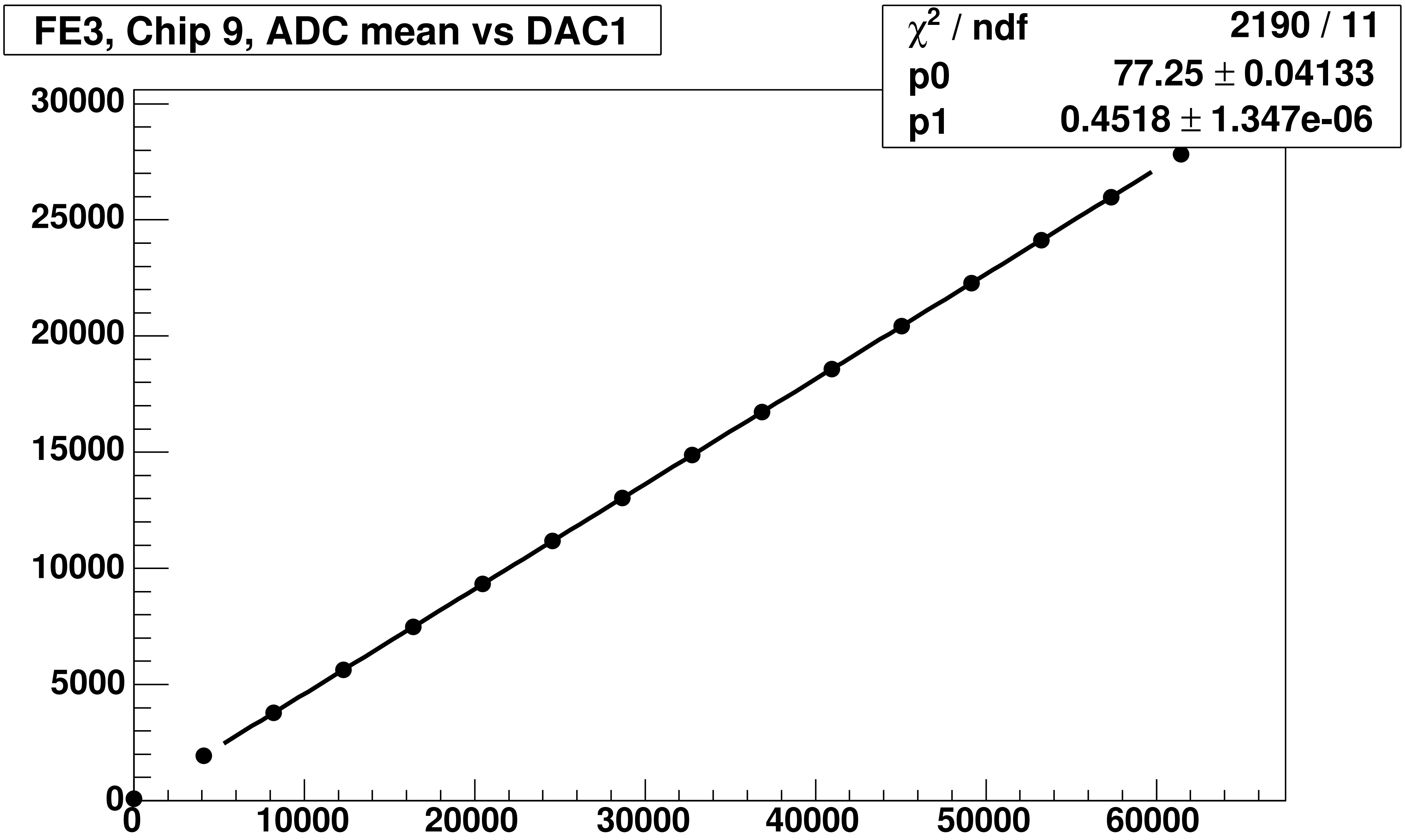


FE3, Chip 9, ADC mean vs DAC0
χ^2 / ndf 25.26 / 11
p0 74.16 ± 0.03956
p1 7.883e-07 ± 1.085e-06
74.4
74.3
74.2
74.1
74
73.9
0
10000
20000
30000
40000
50000
60000

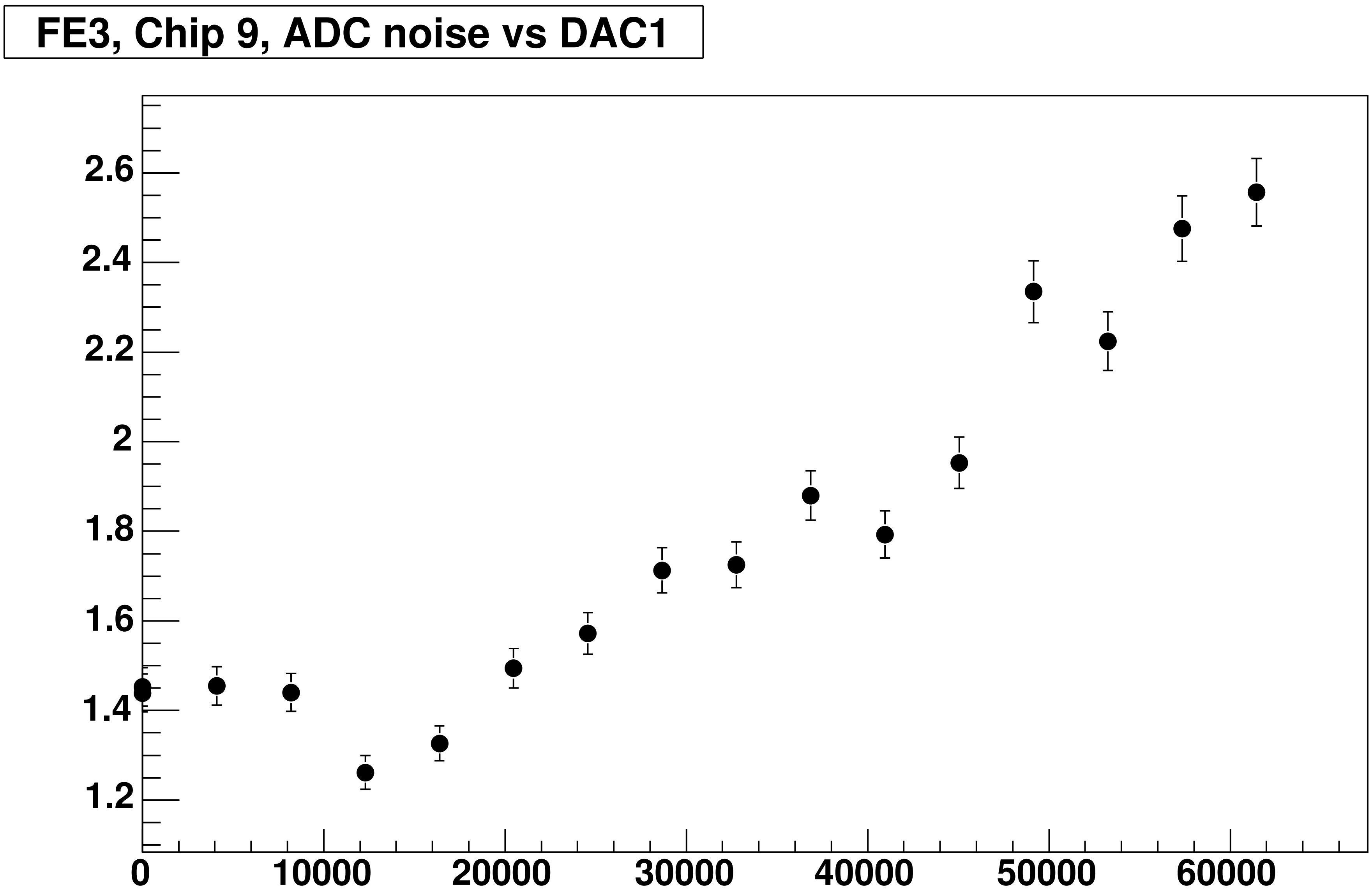

FE3, Chip 9, ADC noise vs DAC0
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000



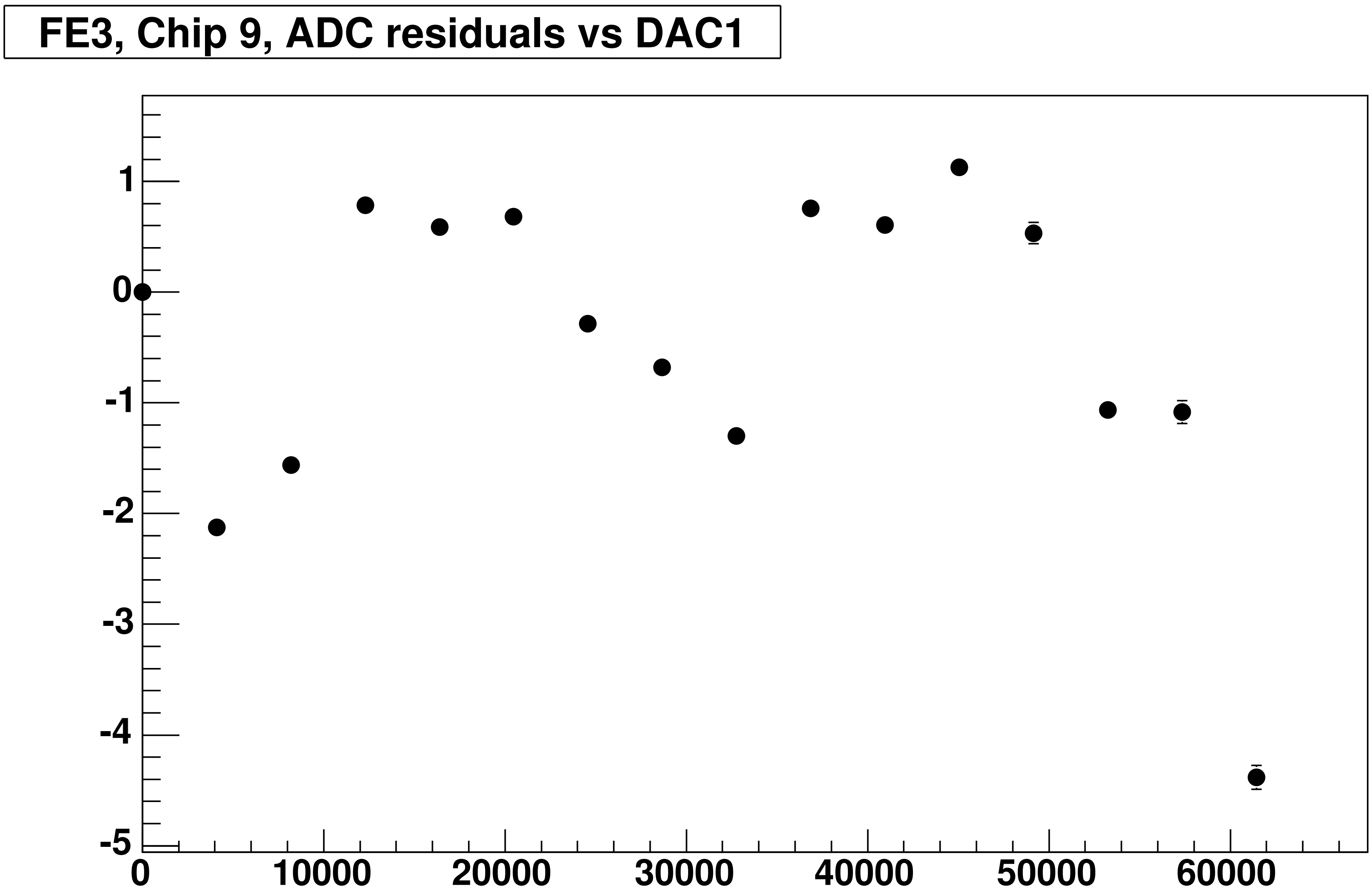
FE3, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

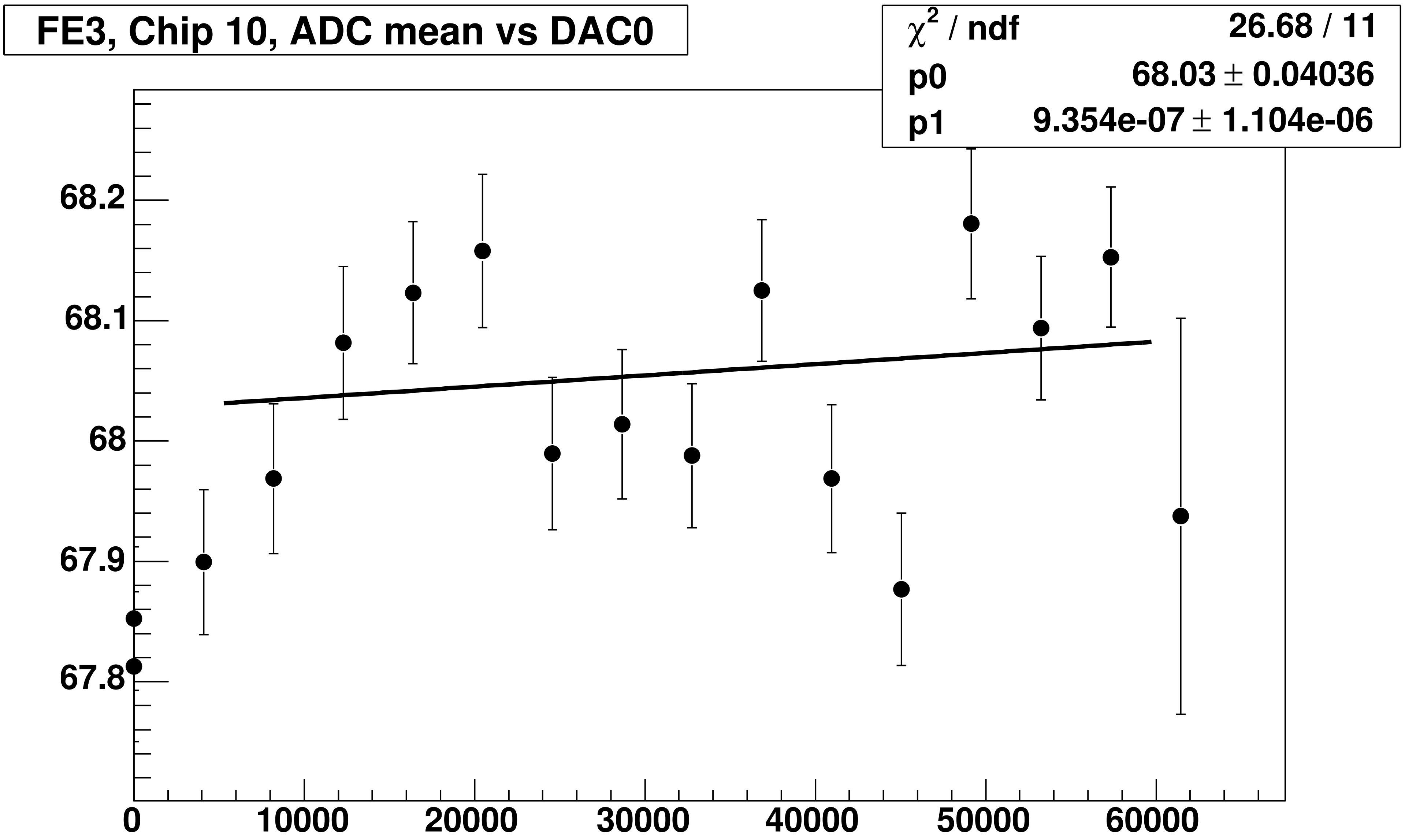


FE3, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2190 / 11
p0 77.25 ± 0.04133
p1 0.4518 ± 1.347e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

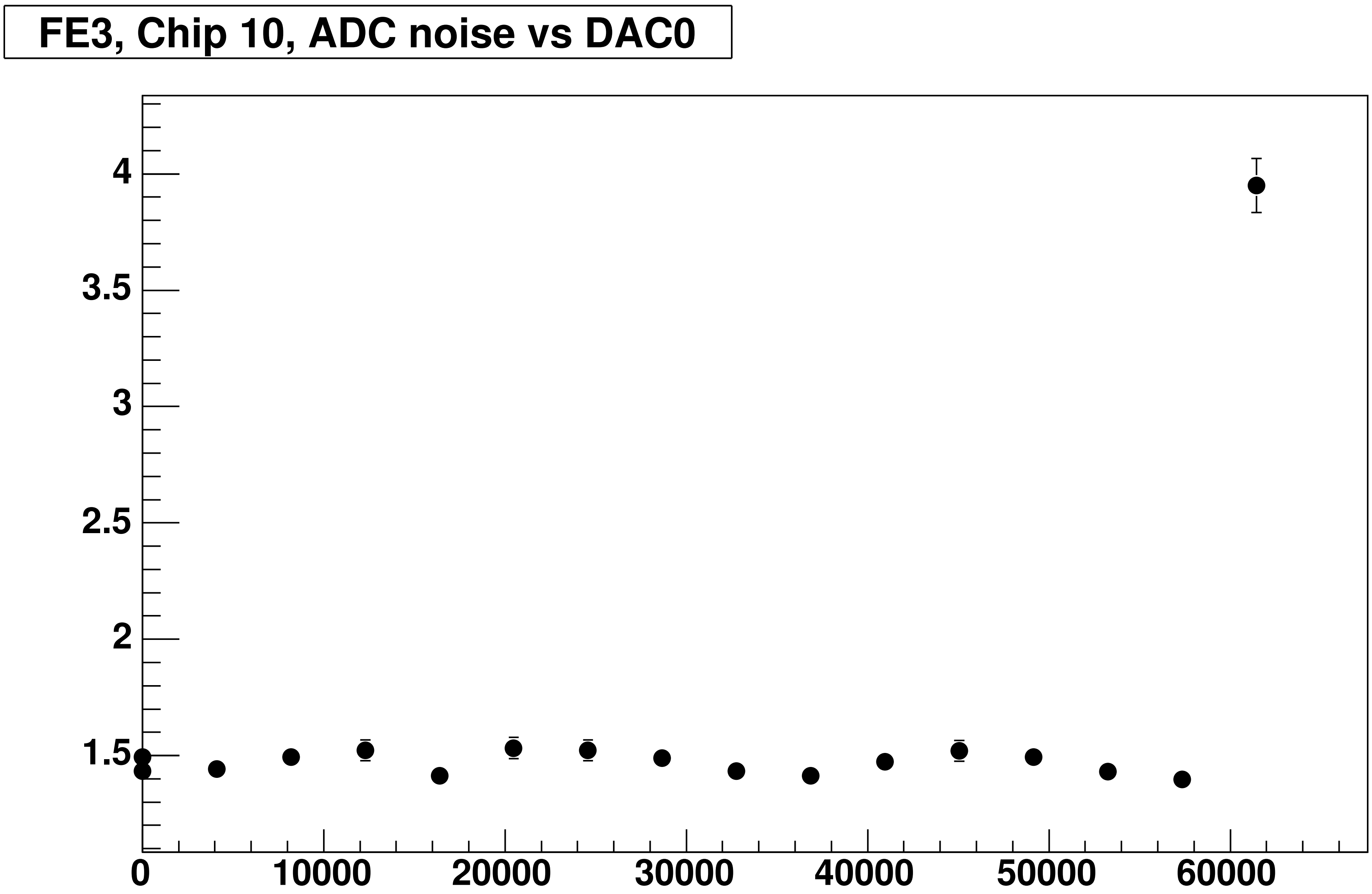


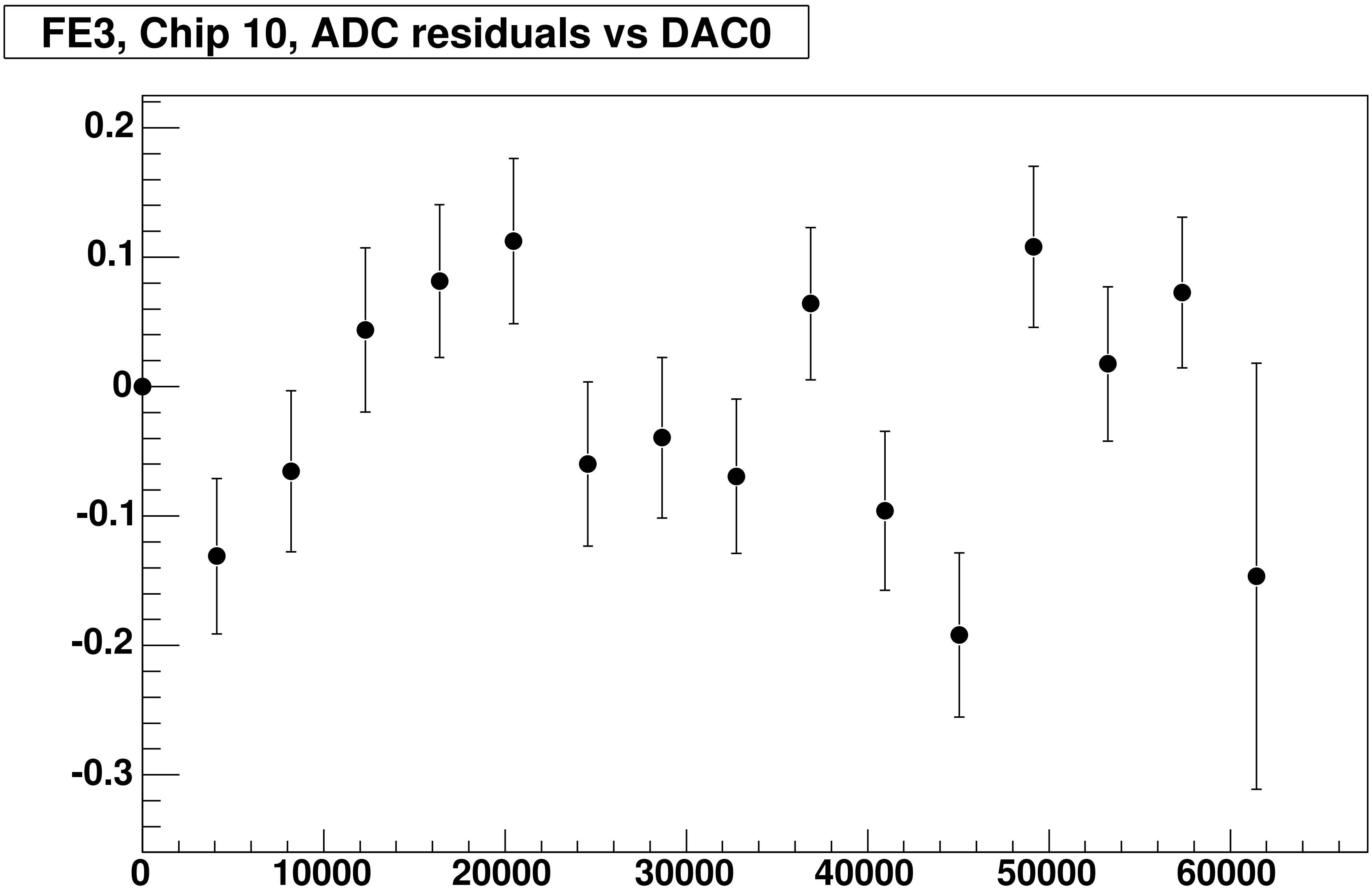
FE3, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

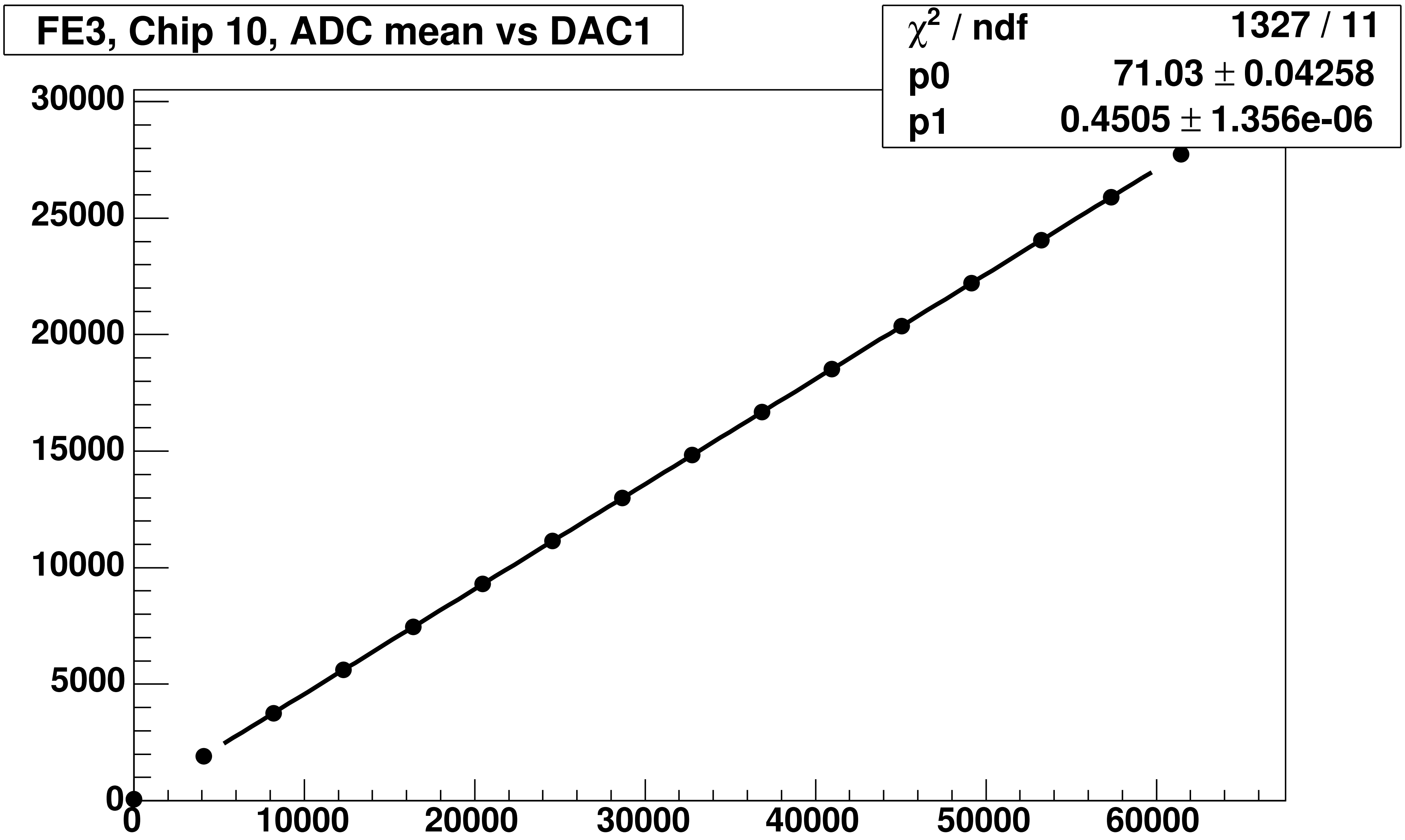


FE3, Chip 10, ADC mean vs DAC0
χ^2 / ndf 26.68 / 11
p0 68.03 ± 0.04036
p1 9.354e-07 ± 1.104e-06
68.2
68.1
68
67.9
67.8
0
10000
20000
30000
40000
50000
60000

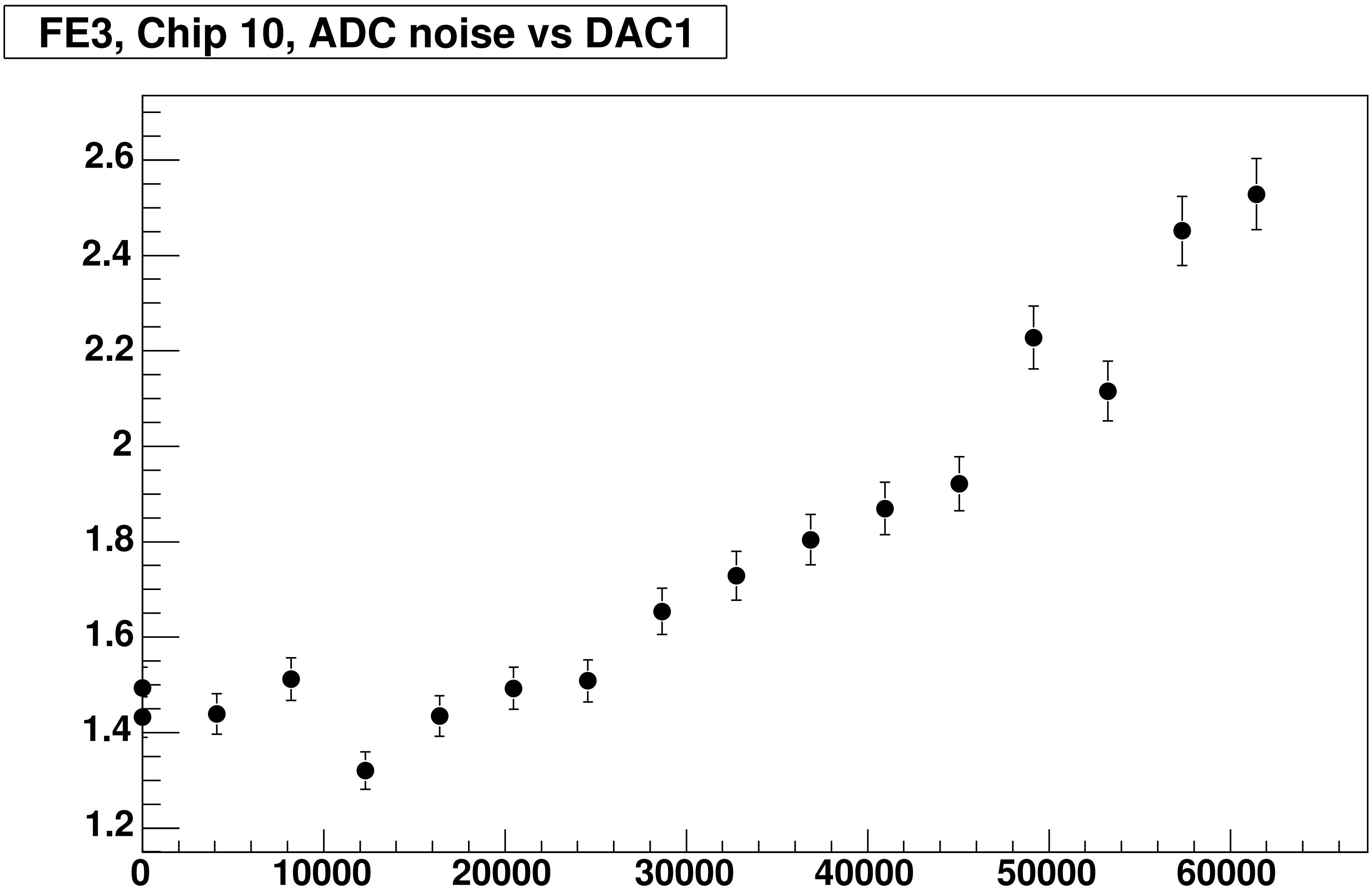

FE3, Chip 10, ADC noise vs DAC0
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

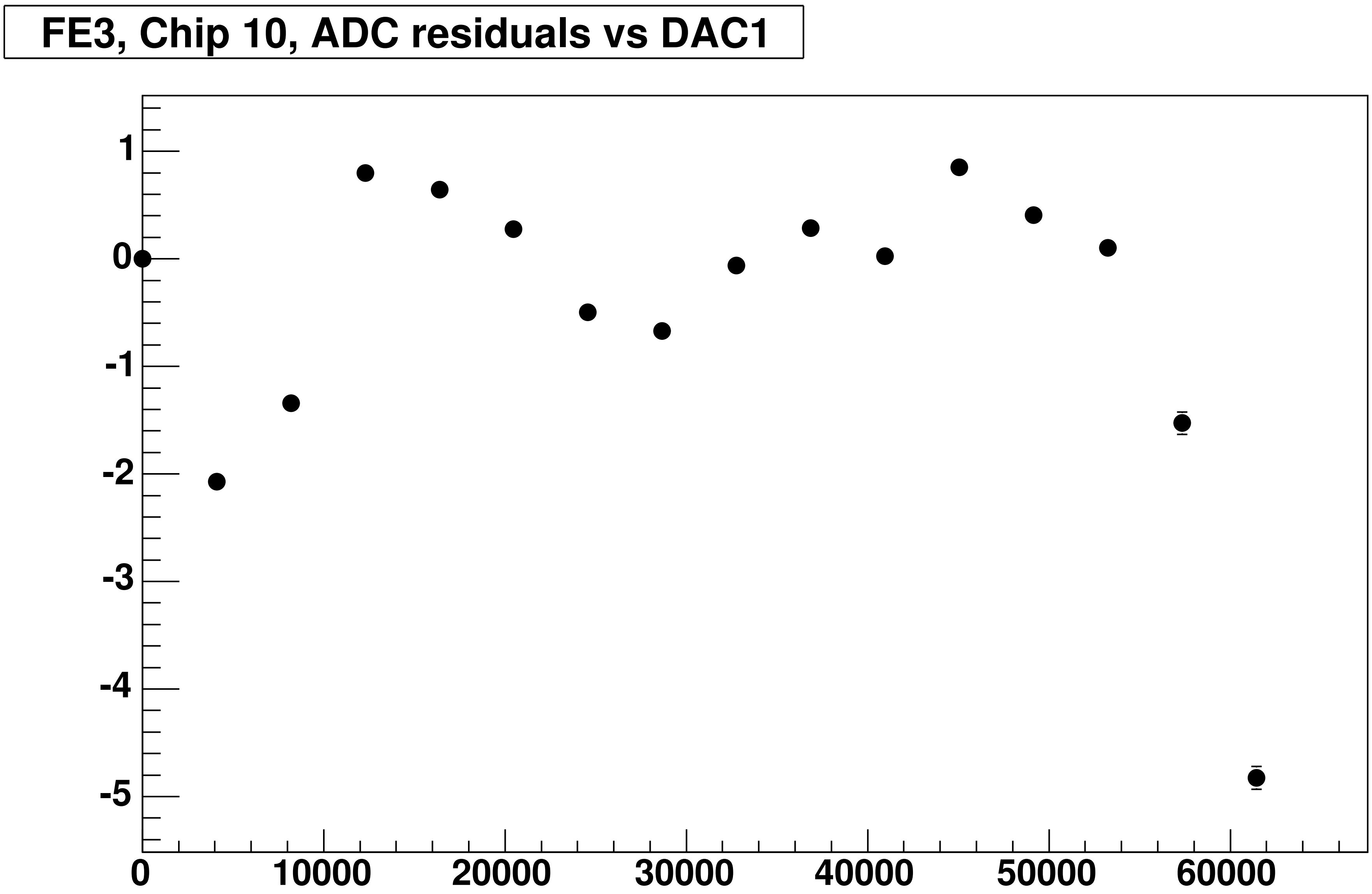


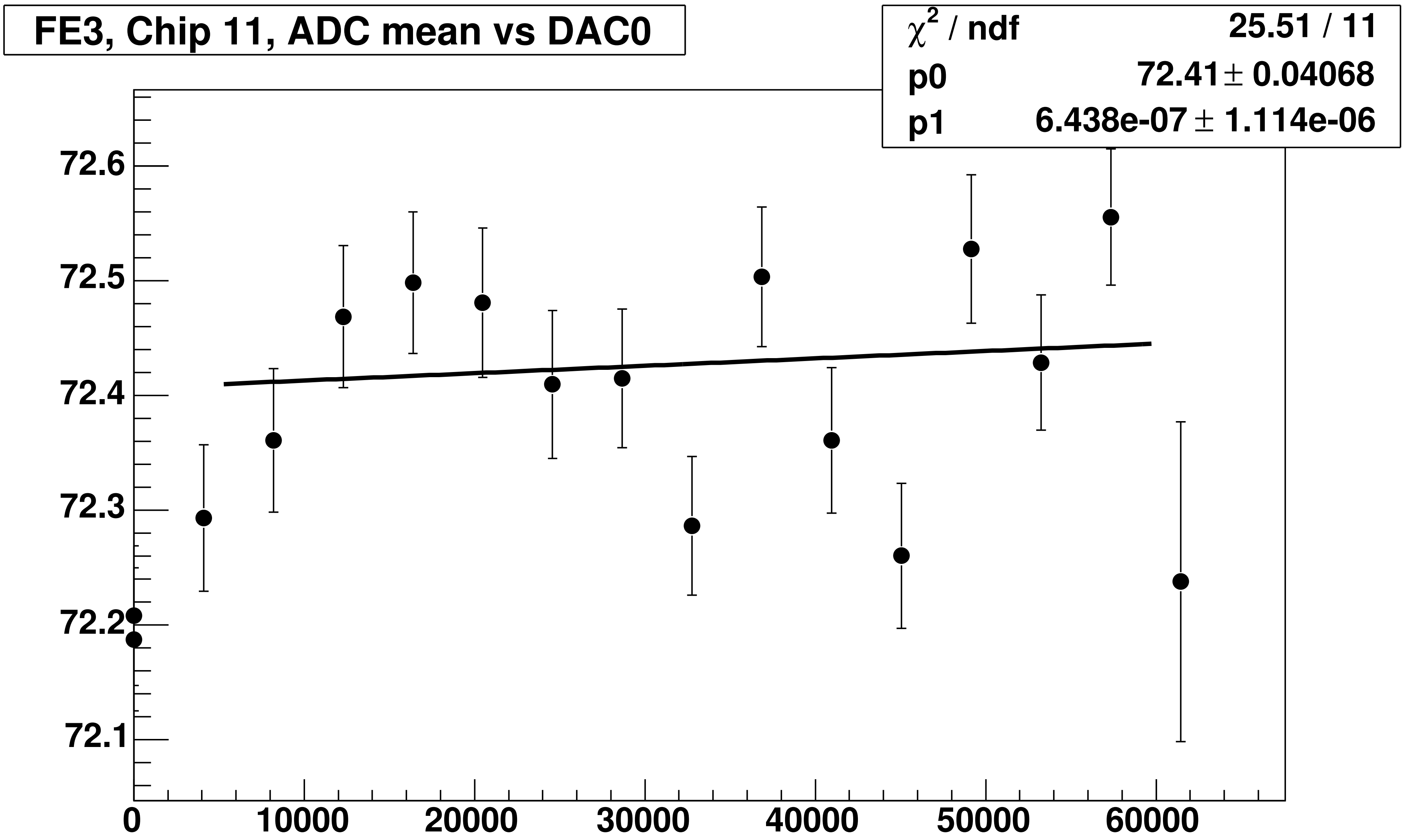
FE3, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



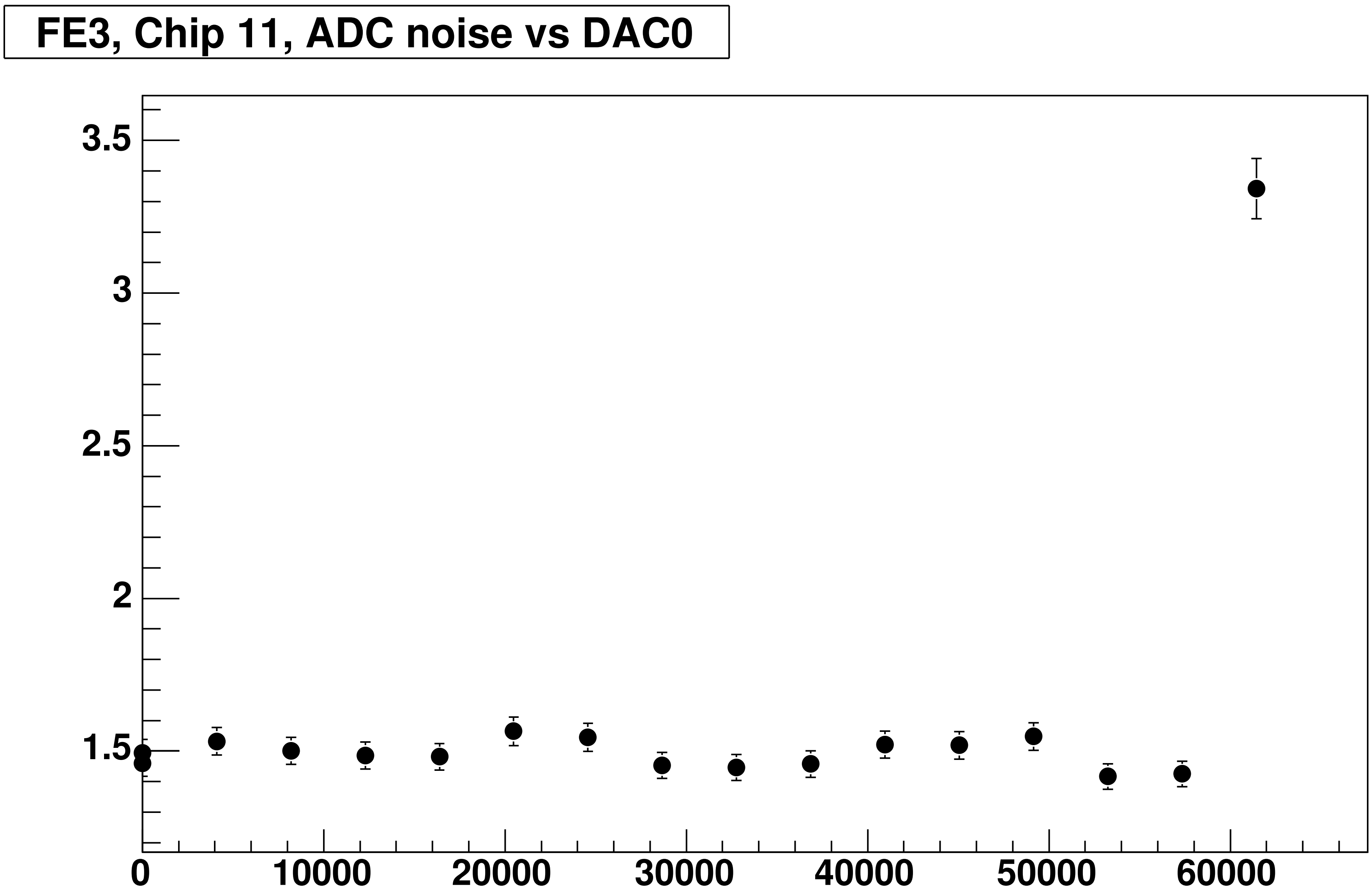
FE3, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1327 / 11
p0 71.03 ± 0.04258
p1 0.4505 ± 1.356e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

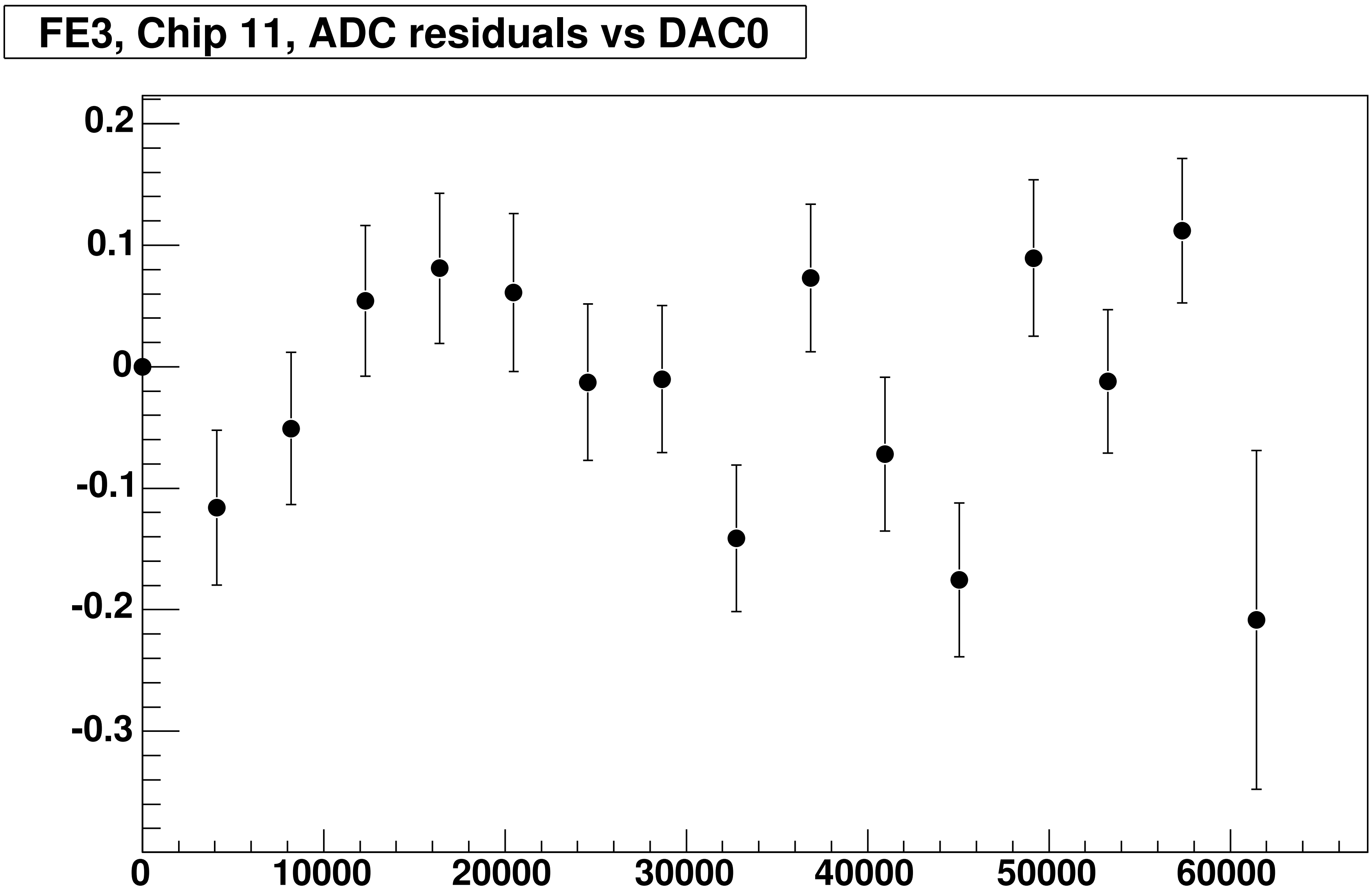

FE3, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



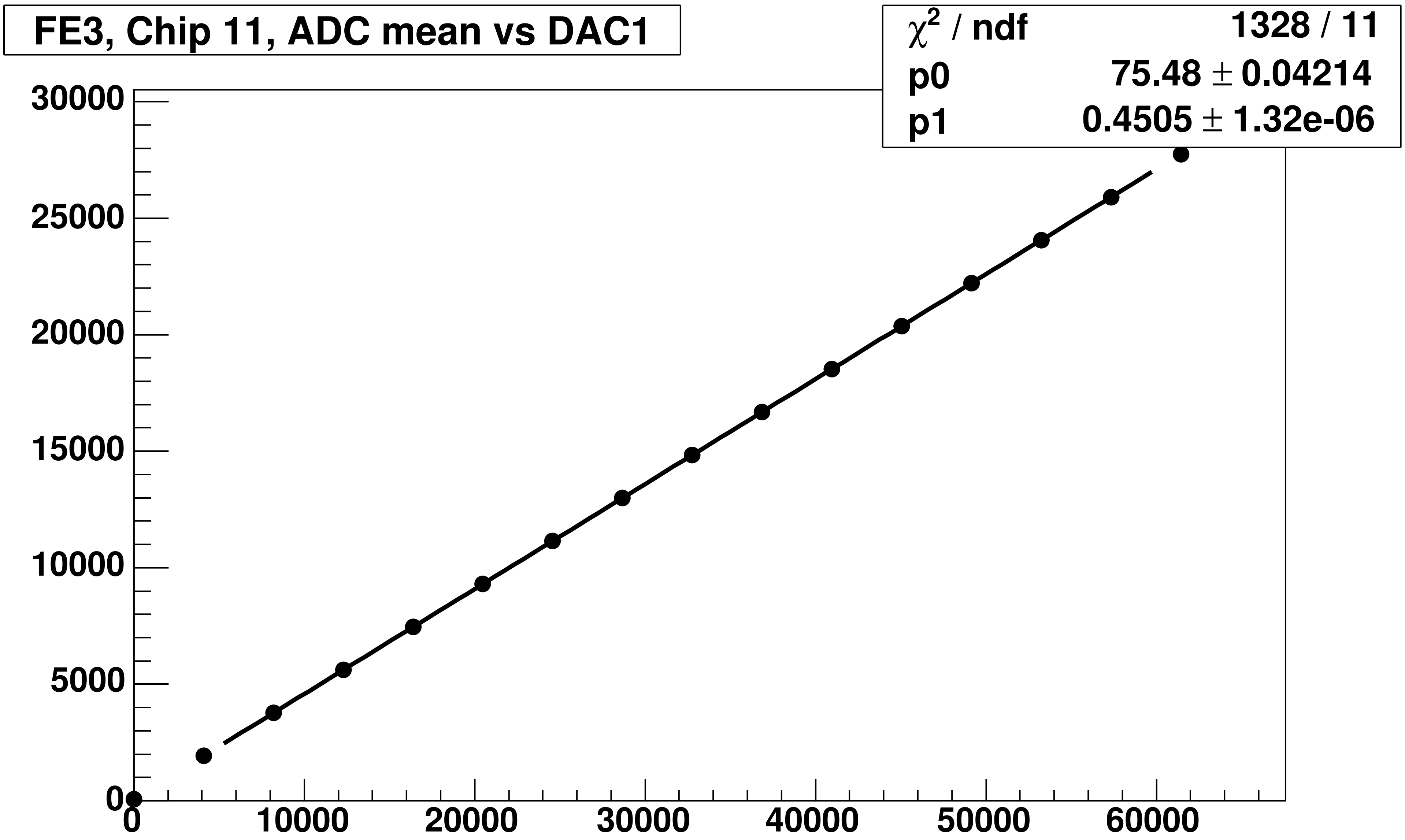
FE3, Chip 11, ADC mean vs DAC0
χ^2 / ndf 25.51 / 11
p0 72.41 ± 0.04068
p1 6.438e-07 ± 1.114e-06
72.6
72.5
72.4
72.3
72.2
72.1
0
10000
20000
30000
40000
50000
60000



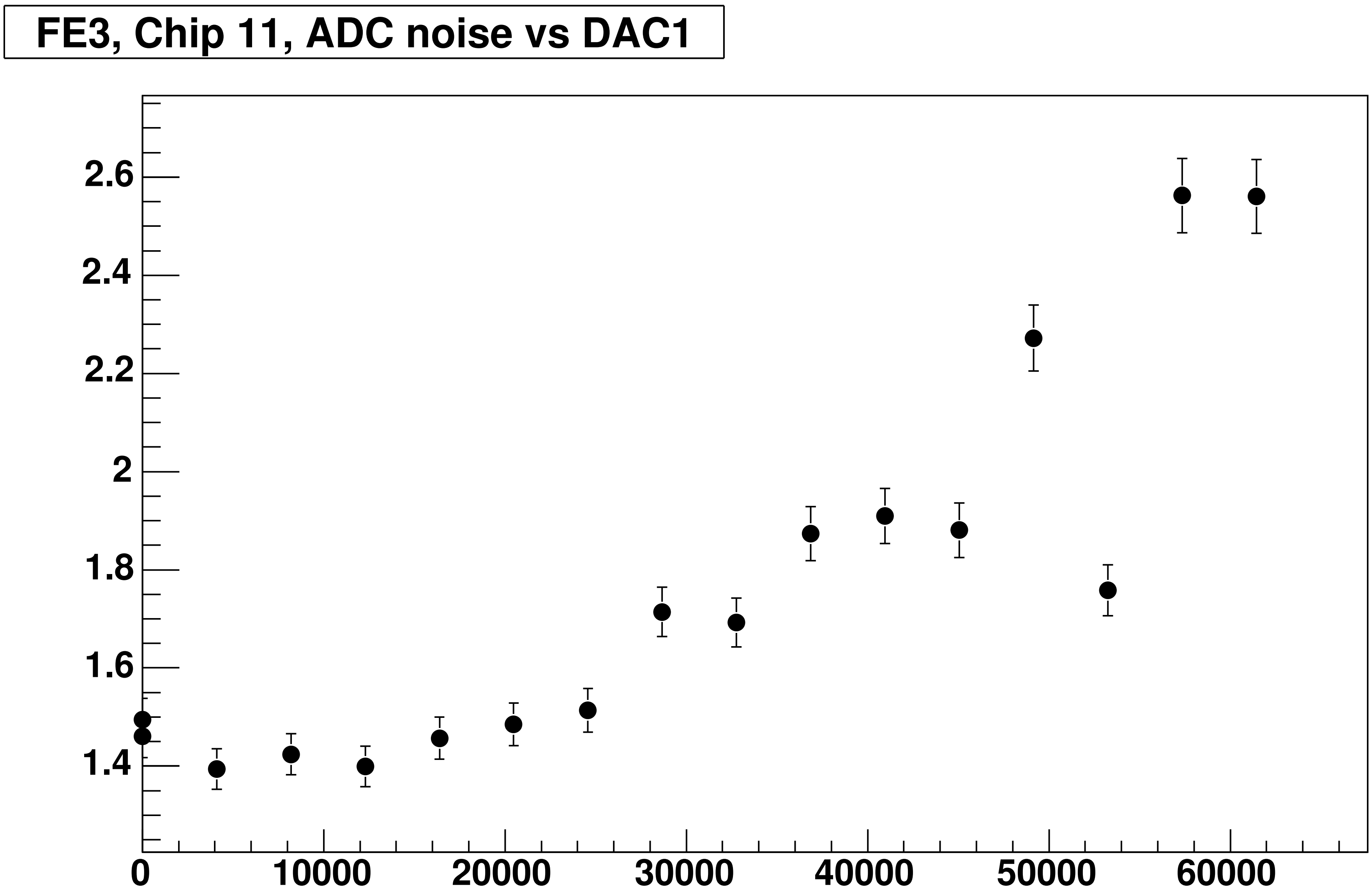
FE3, Chip 11, ADC noise vs DAC0
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

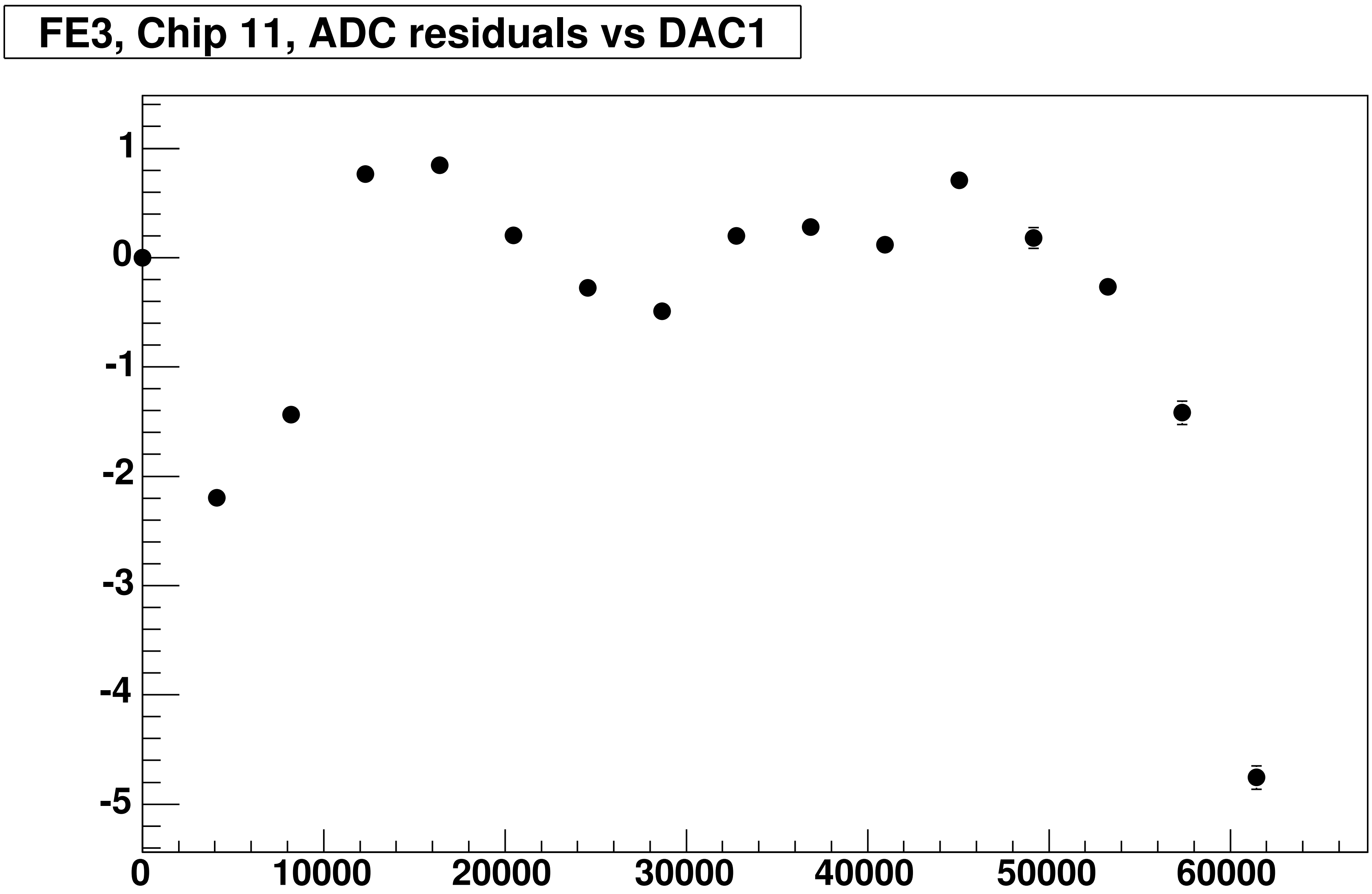


FE3, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

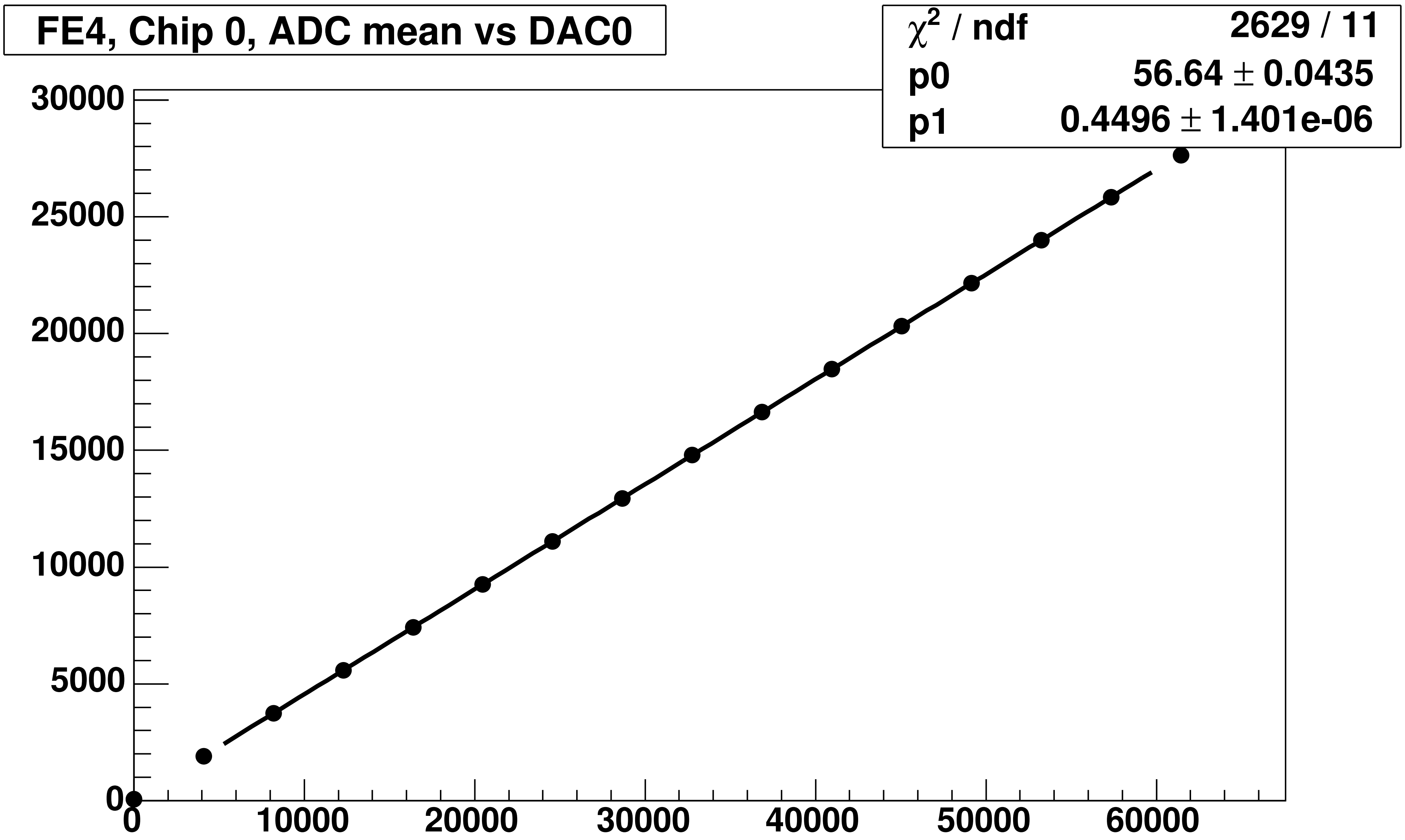


FE3, Chip 11, ADC mean vs DAC1
χ² / ndf 1328 / 11
p0 75.48 ± 0.04214
p1 0.4505 ± 1.32e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

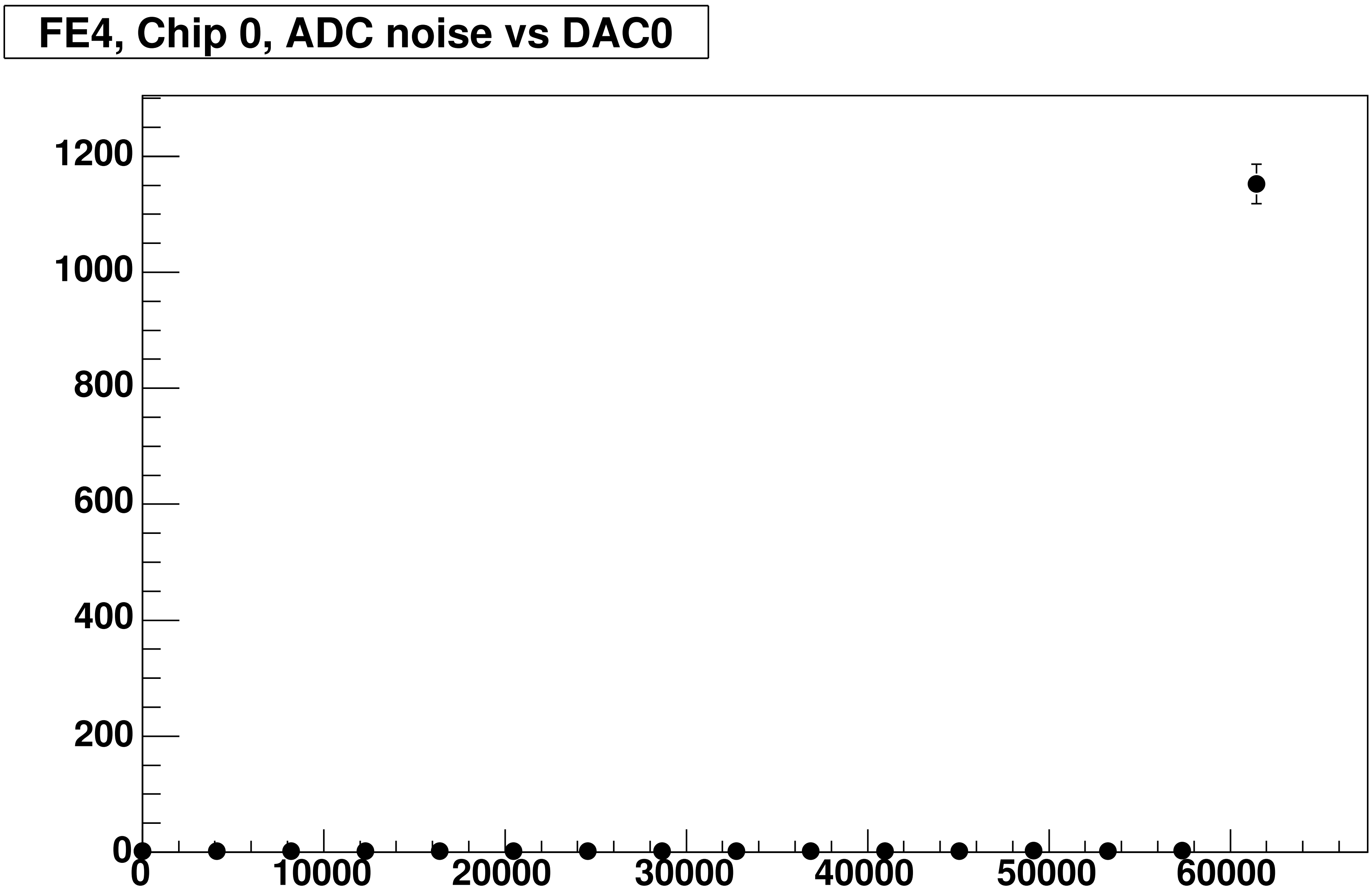

FE3, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

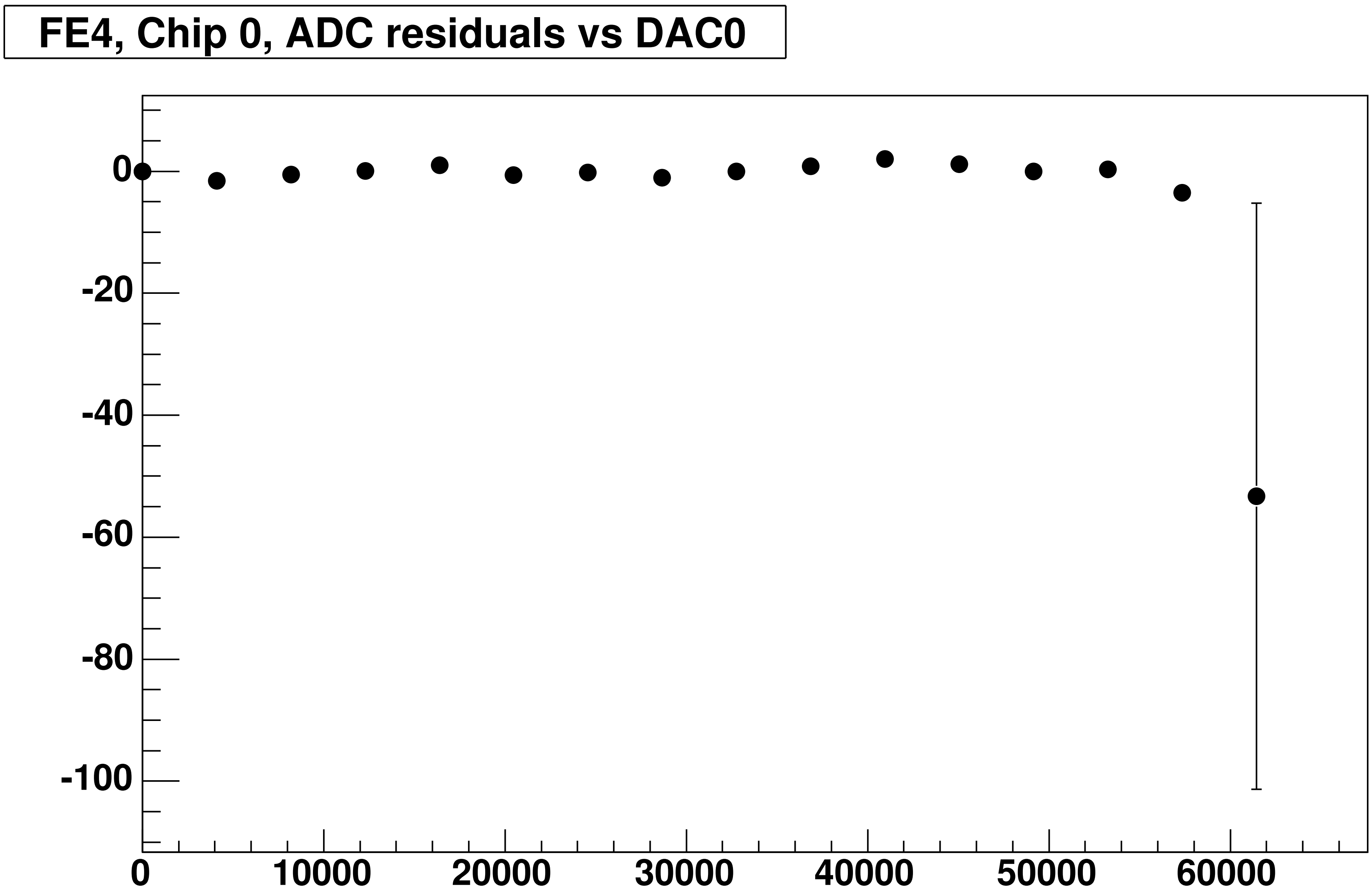


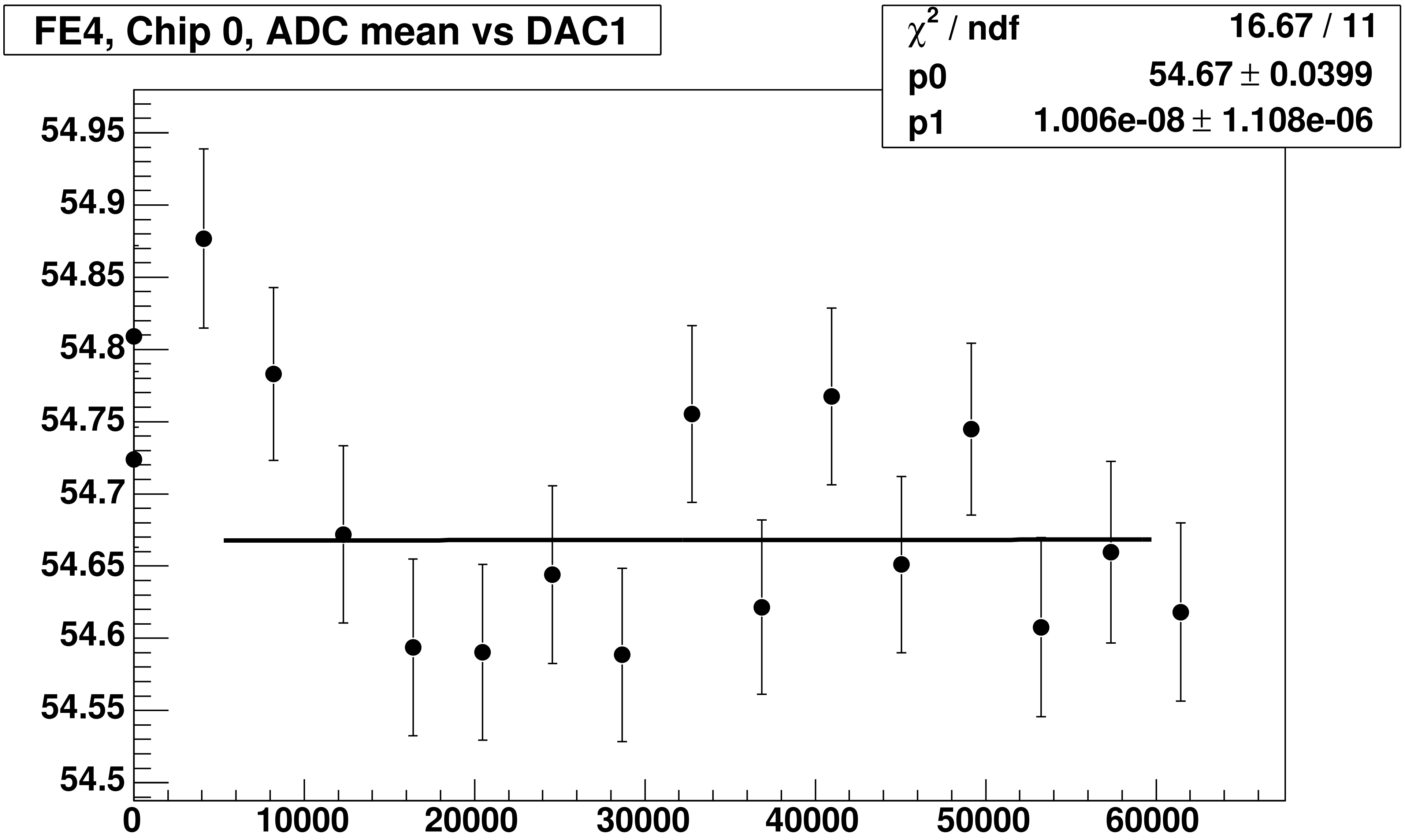
FE3, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



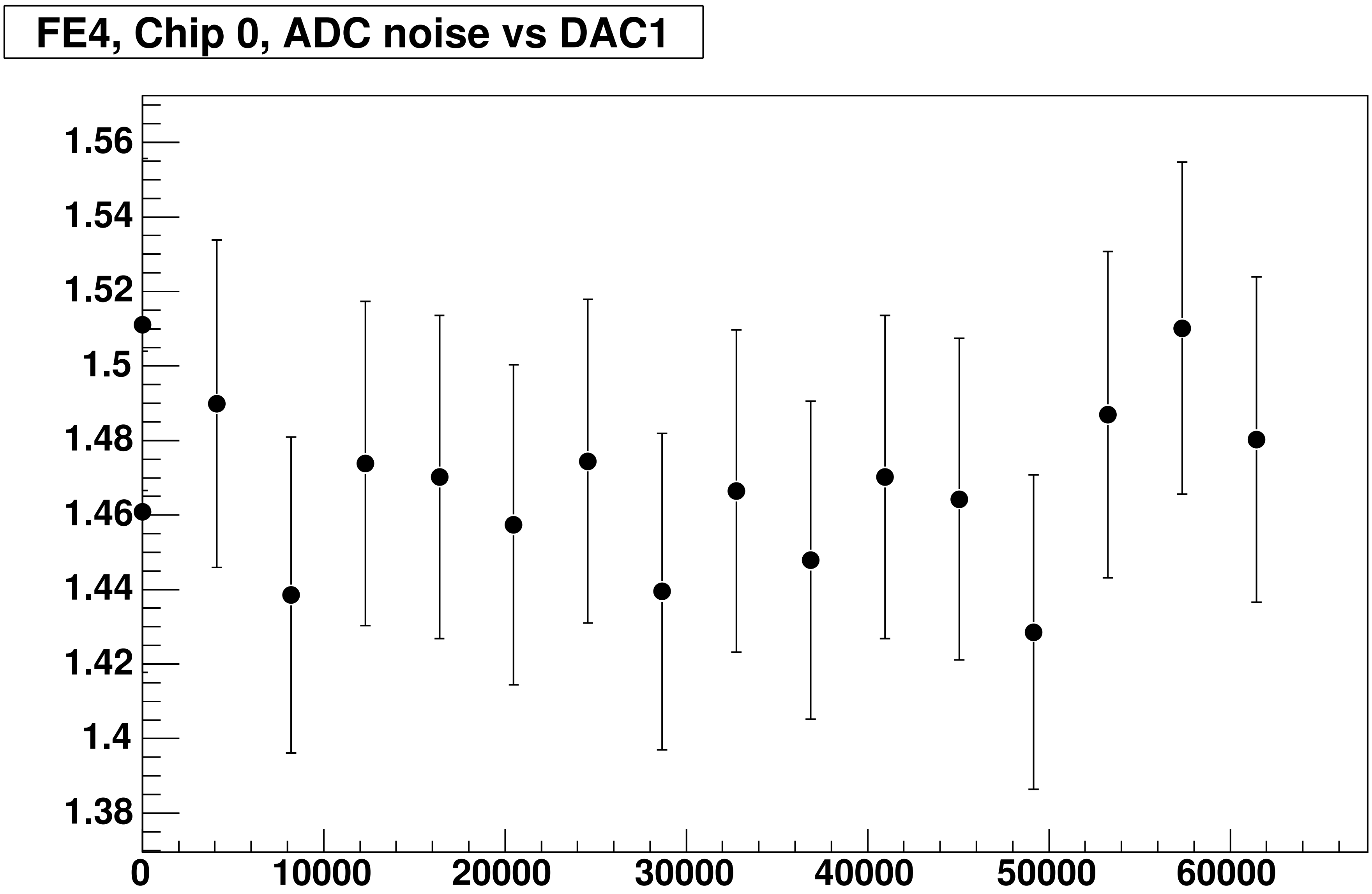
FE4, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2629 / 11
p0 56.64 ± 0.0435
p1 0.4496 ± 1.401e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

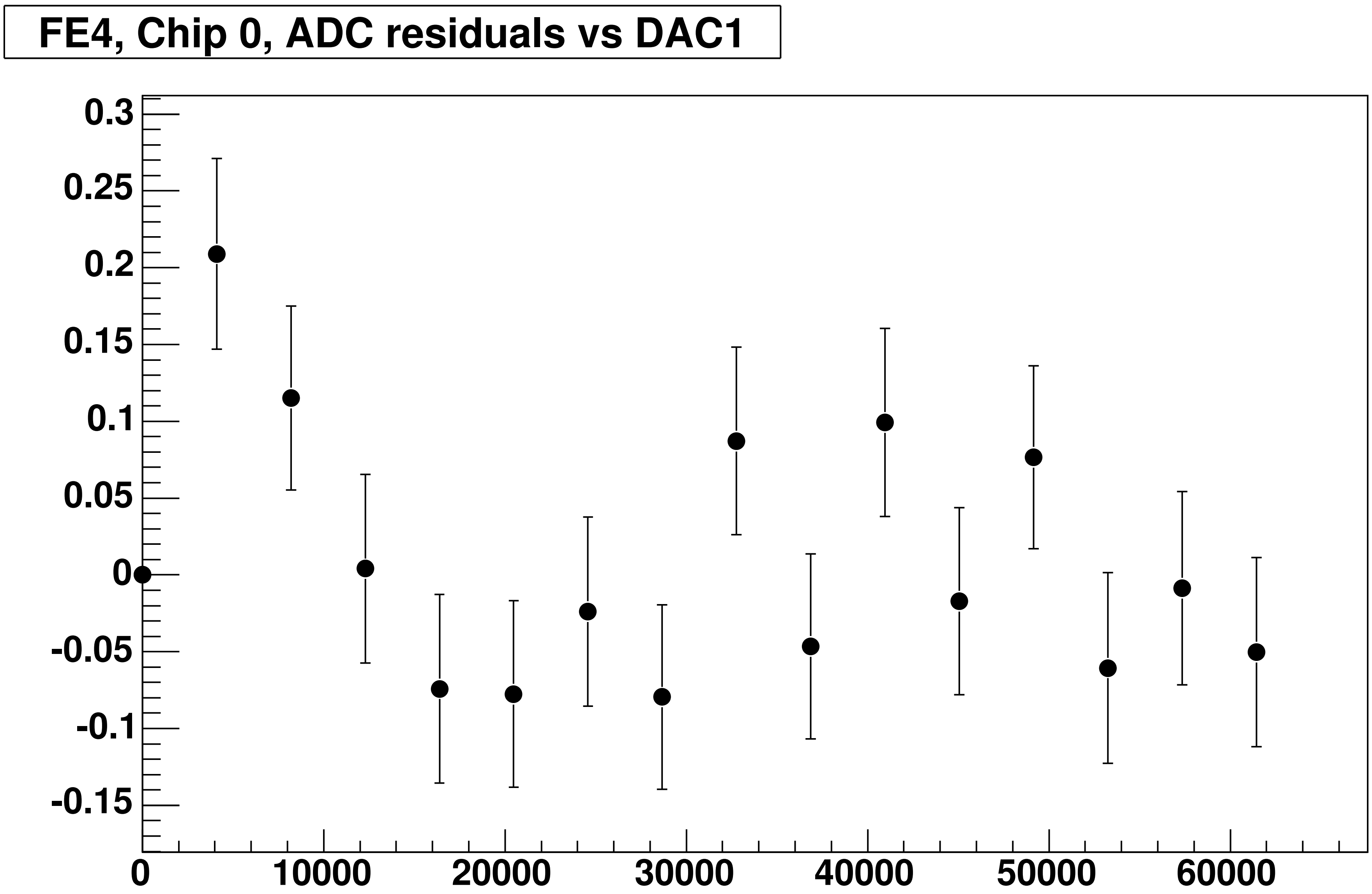

FE4, Chip 0, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000


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

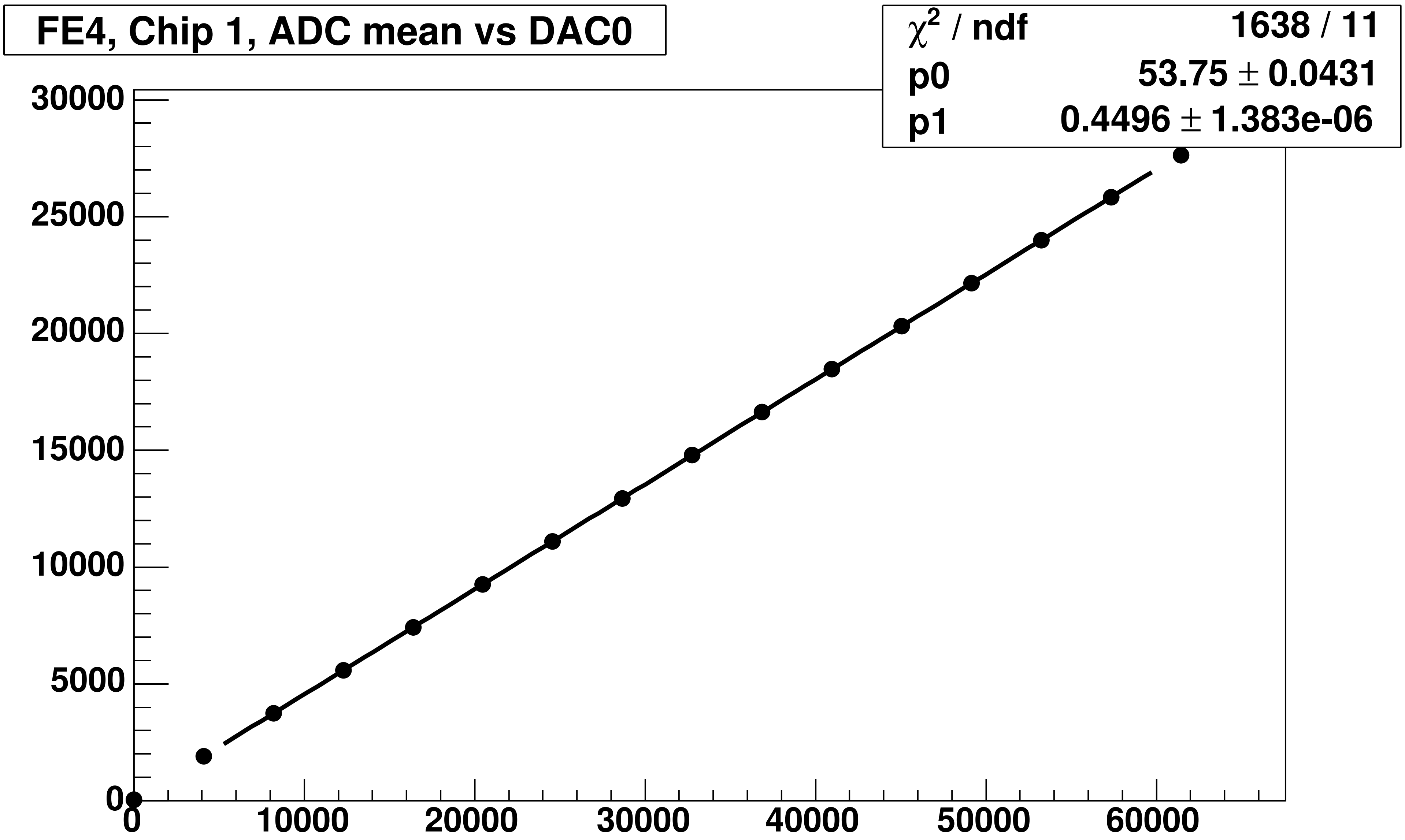


FE4, Chip 0, ADC mean vs DAC1
χ^2 / ndf 16.67 / 11
p0 54.67 ± 0.0399
p1 1.006e-08 ± 1.108e-06
54.95
54.9
54.85
54.8
54.75
54.7
54.65
54.6
54.55
54.5
0
10000
20000
30000
40000
50000
60000

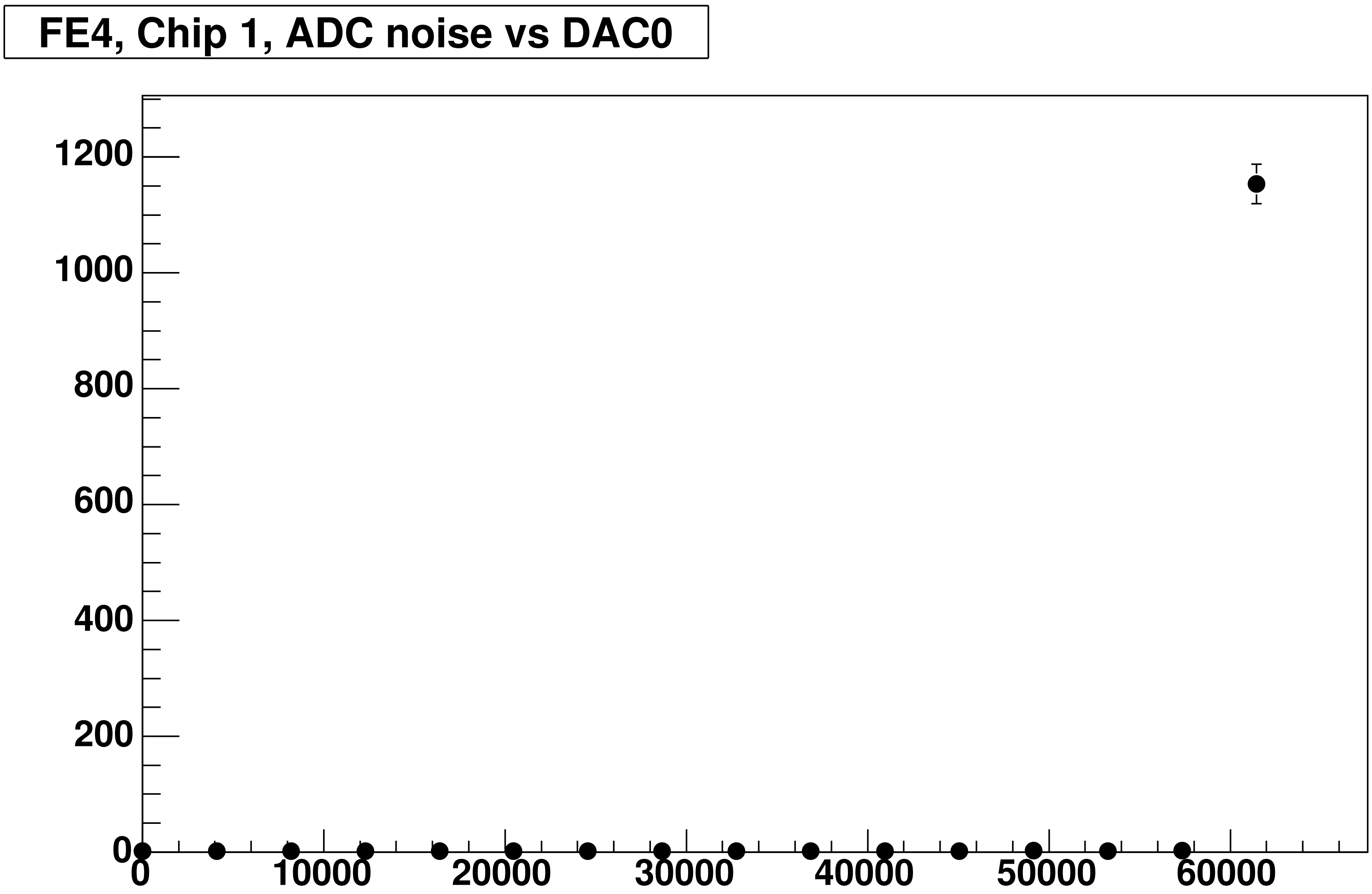

FE4, Chip 0, ADC noise vs DAC1
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
0
10000
20000
30000
40000
50000
60000

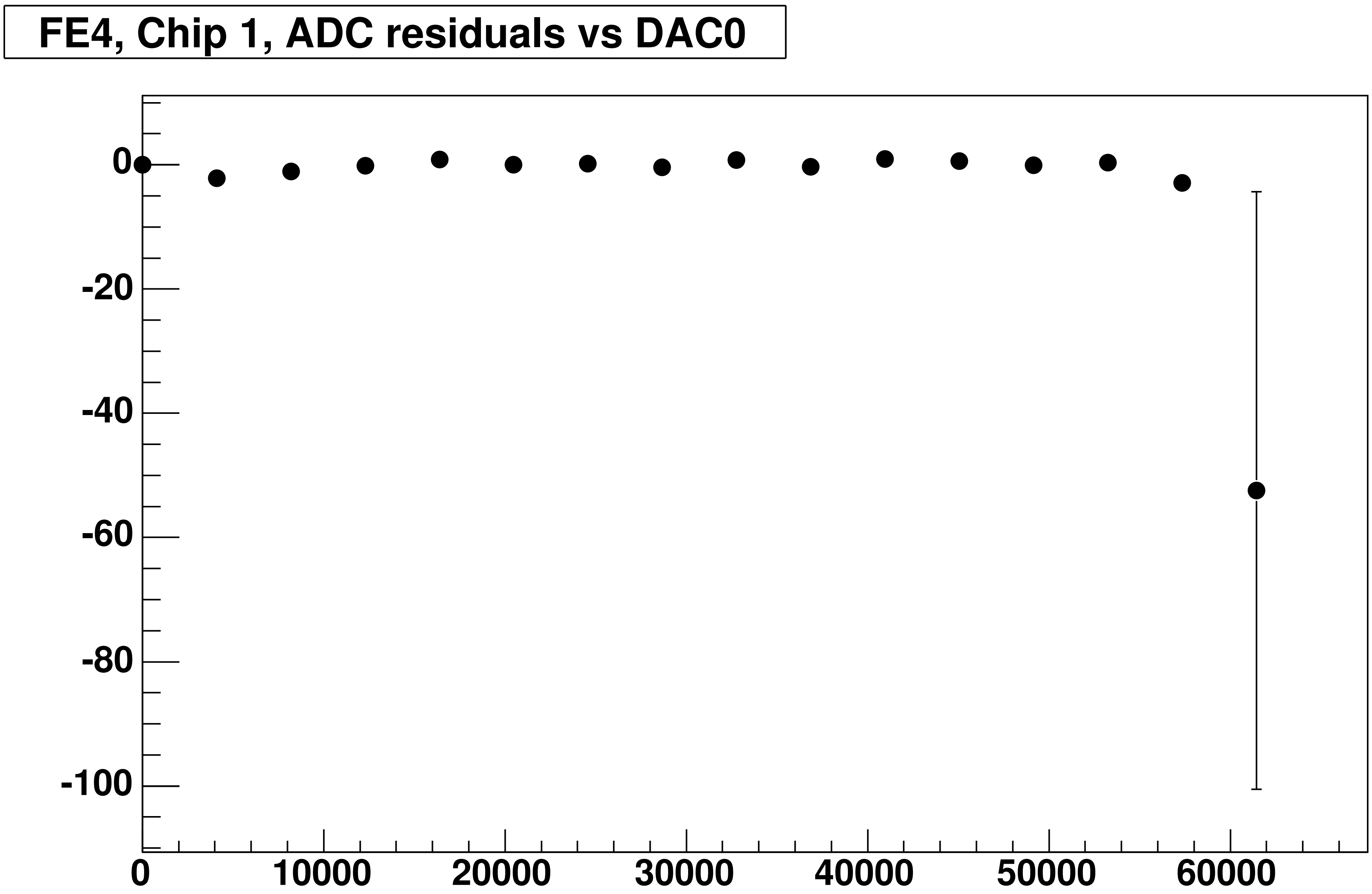


FE4, Chip 0, ADC residuals vs DAC1
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

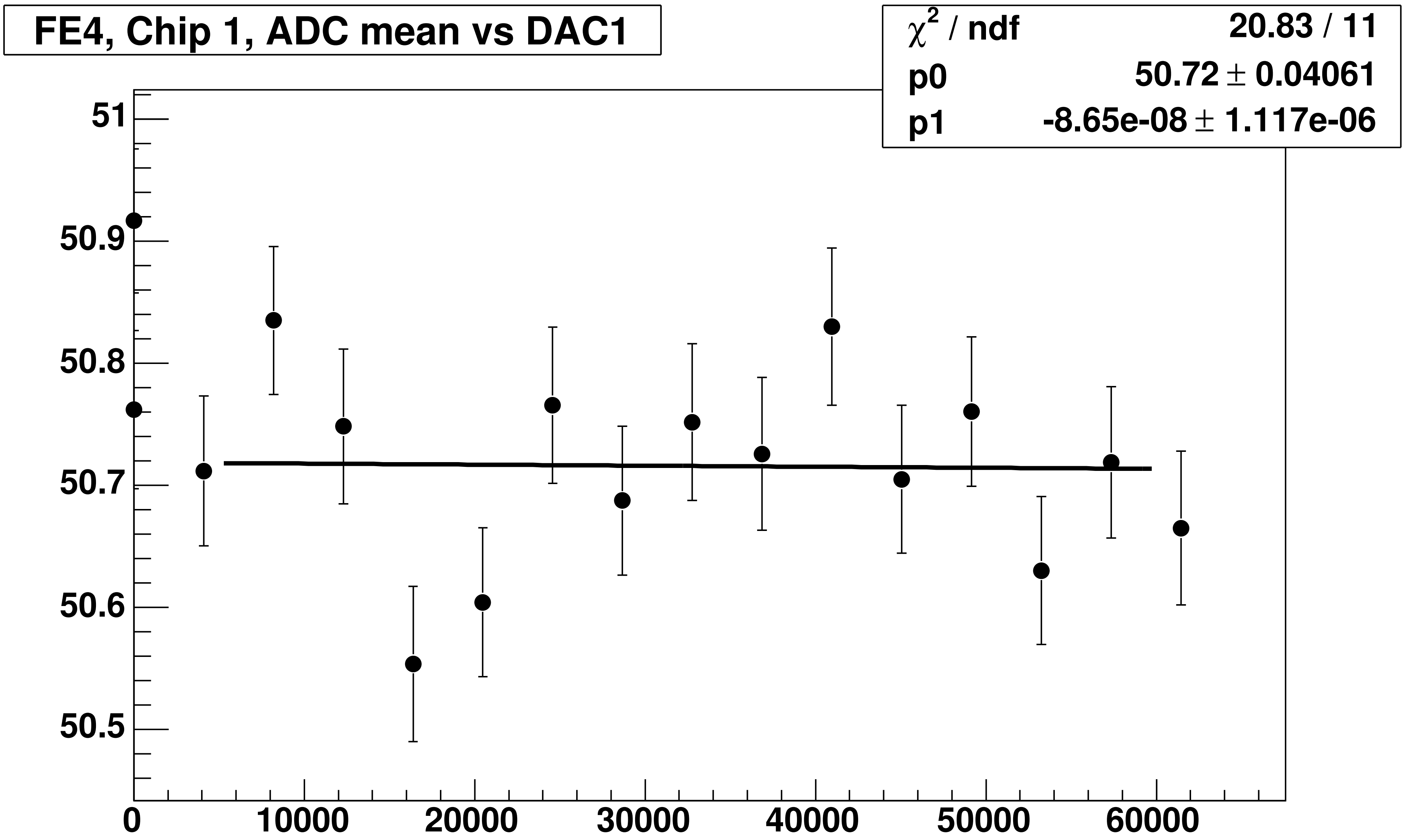


FE4, Chip 1, ADC mean vs DAC0
χ² / ndf 1638 / 11
p0 53.75 ± 0.0431
p1 0.4496 ± 1.383e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

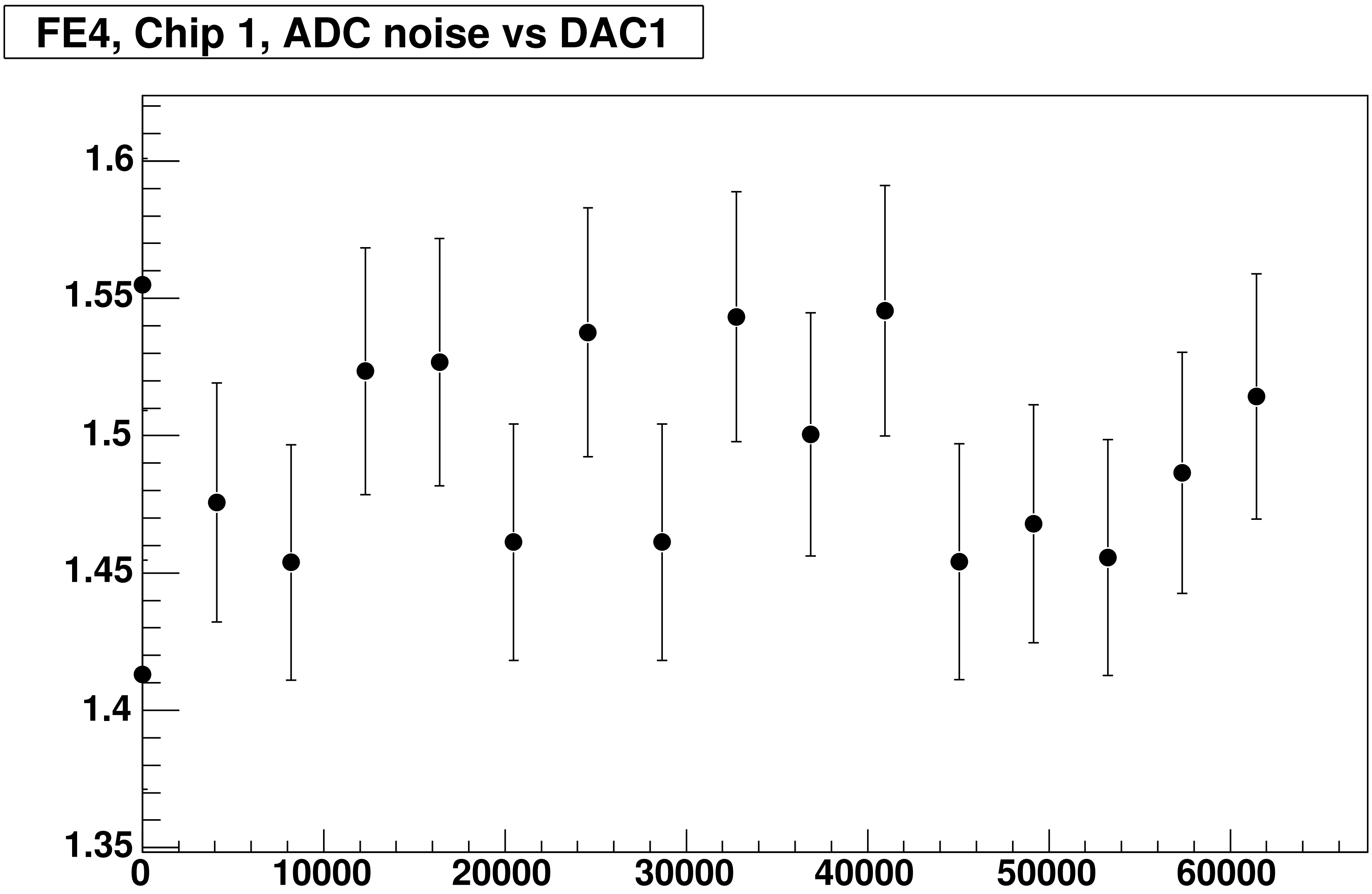

FE4, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

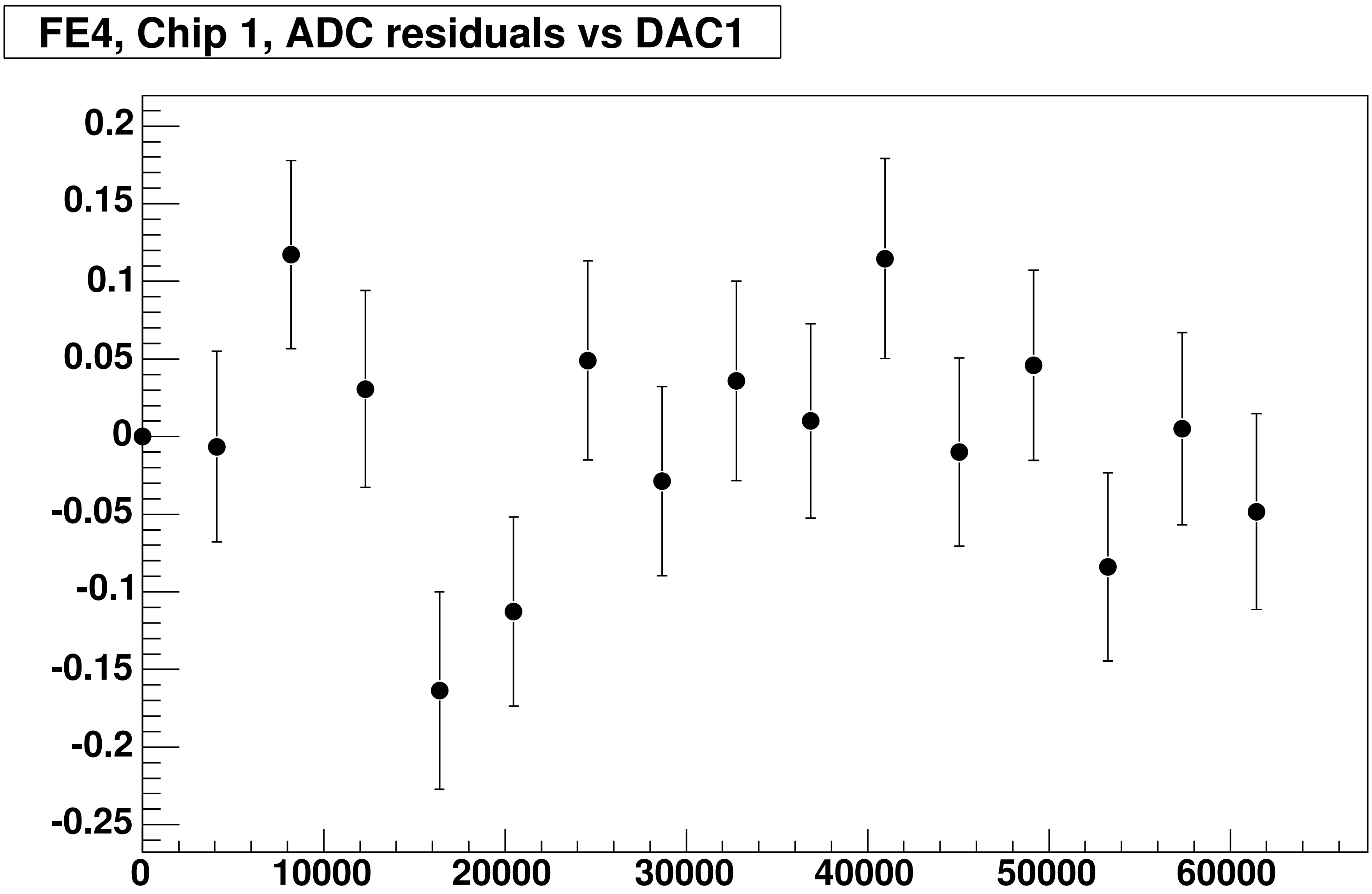


FE4, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

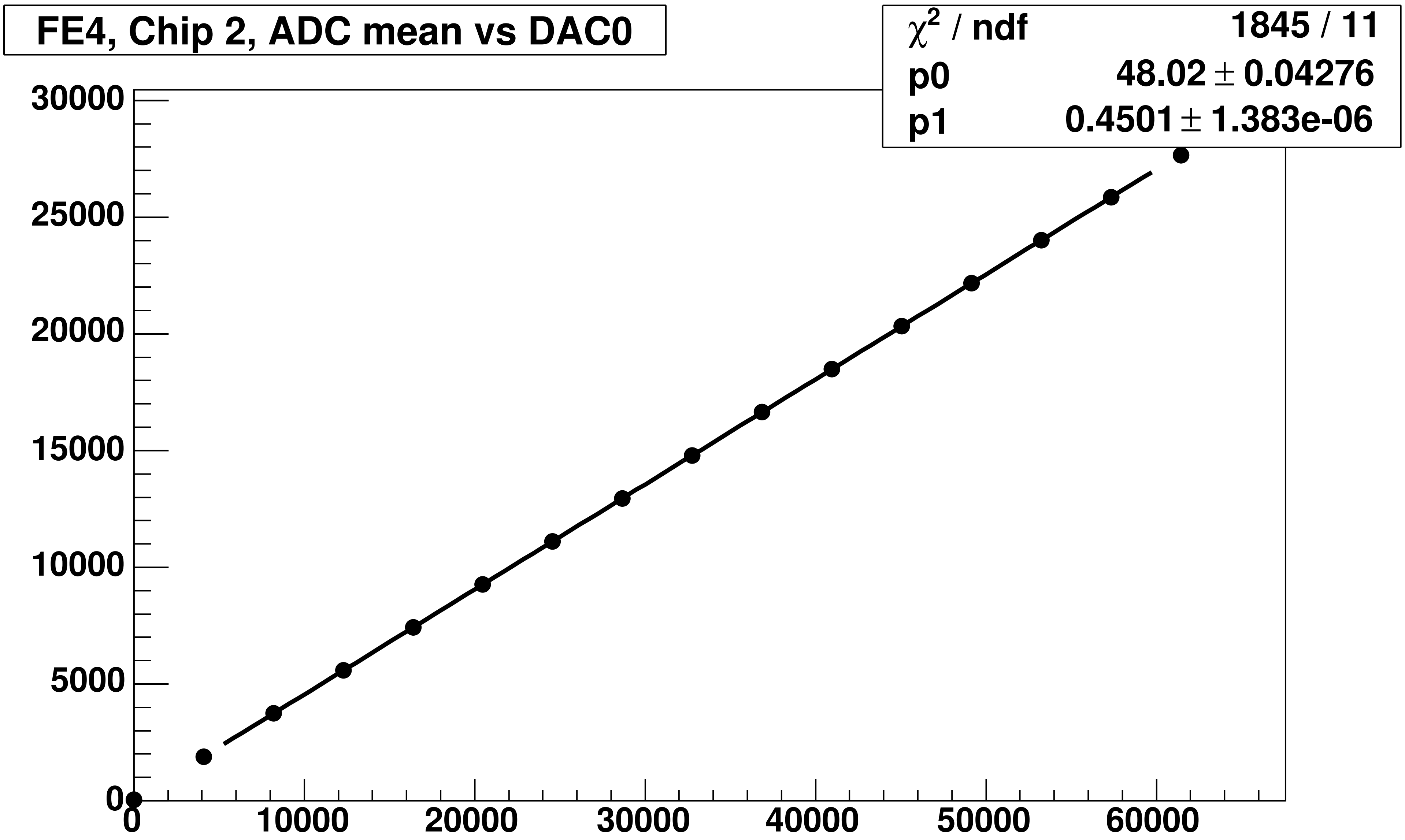


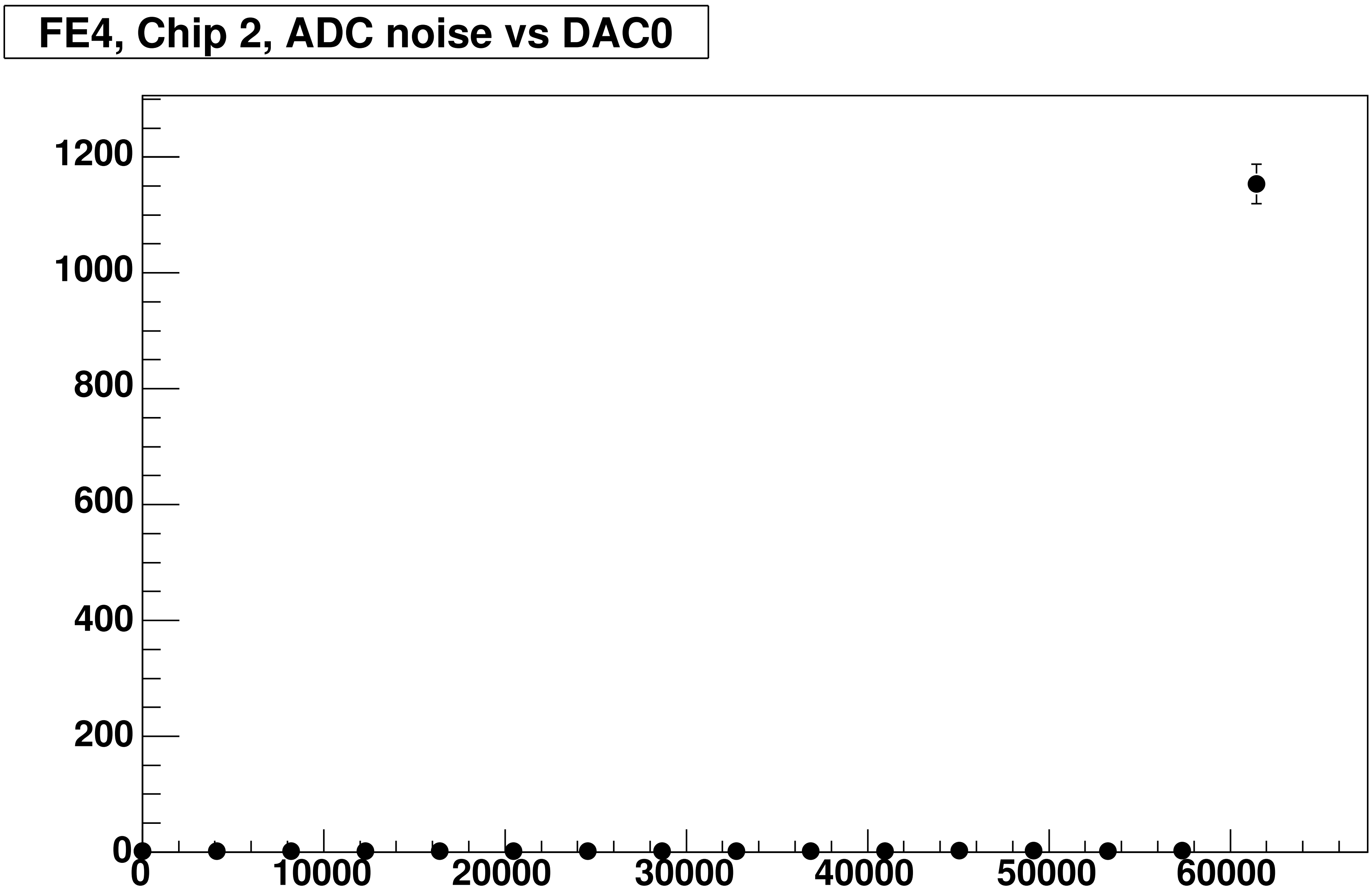
FE4, Chip 1, ADC mean vs DAC1
χ^2 / ndf 20.83 / 11
p0 50.72 ± 0.04061
p1 -8.65e-08 ± 1.117e-06
51
50.9
50.8
50.7
50.6
50.5
0
10000
20000
30000
40000
50000
60000


FE4, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

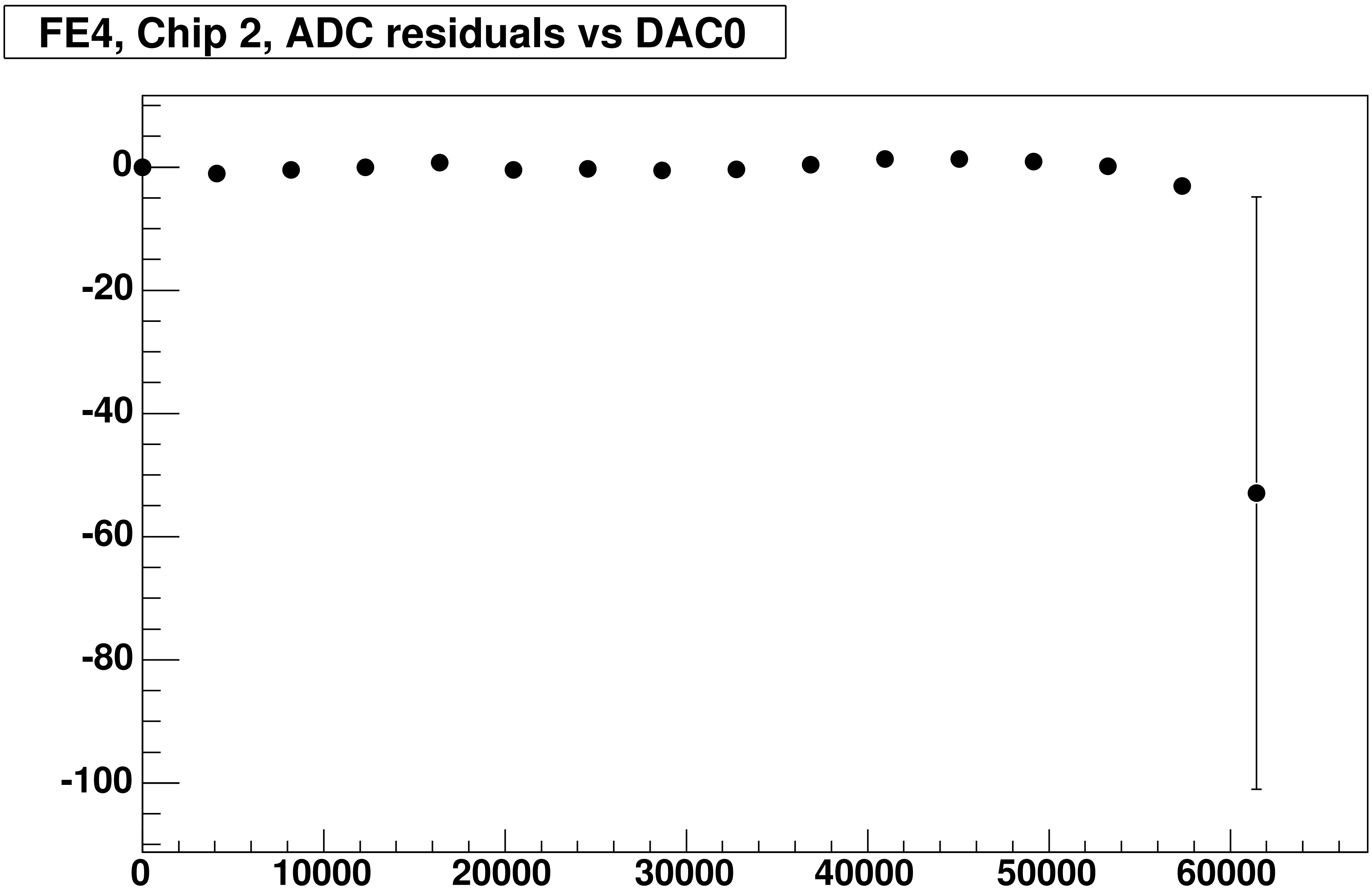


FE4, Chip 1, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

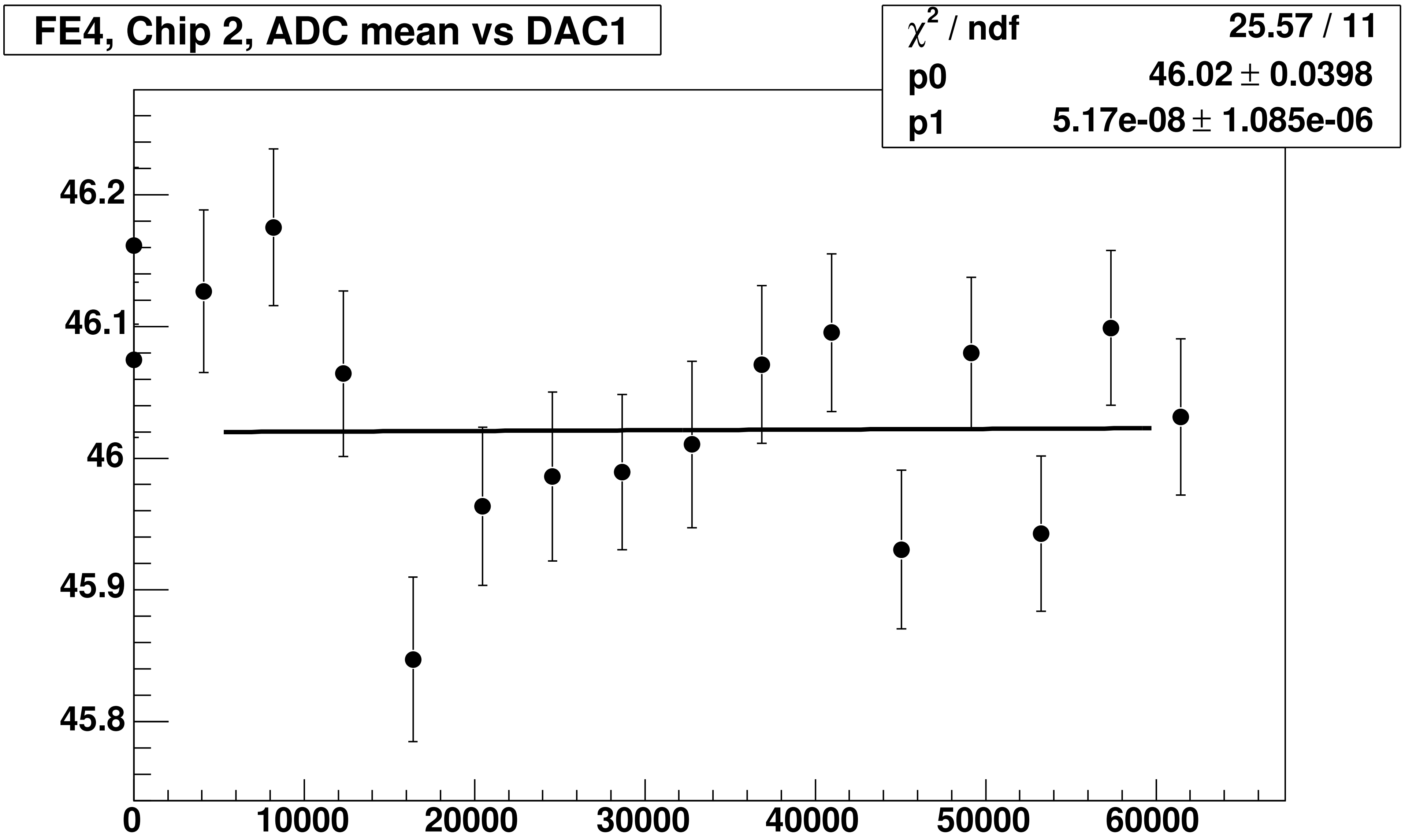

FE4, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1845 / 11
p0 48.02 ± 0.04276
p1 0.4501 ± 1.383e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

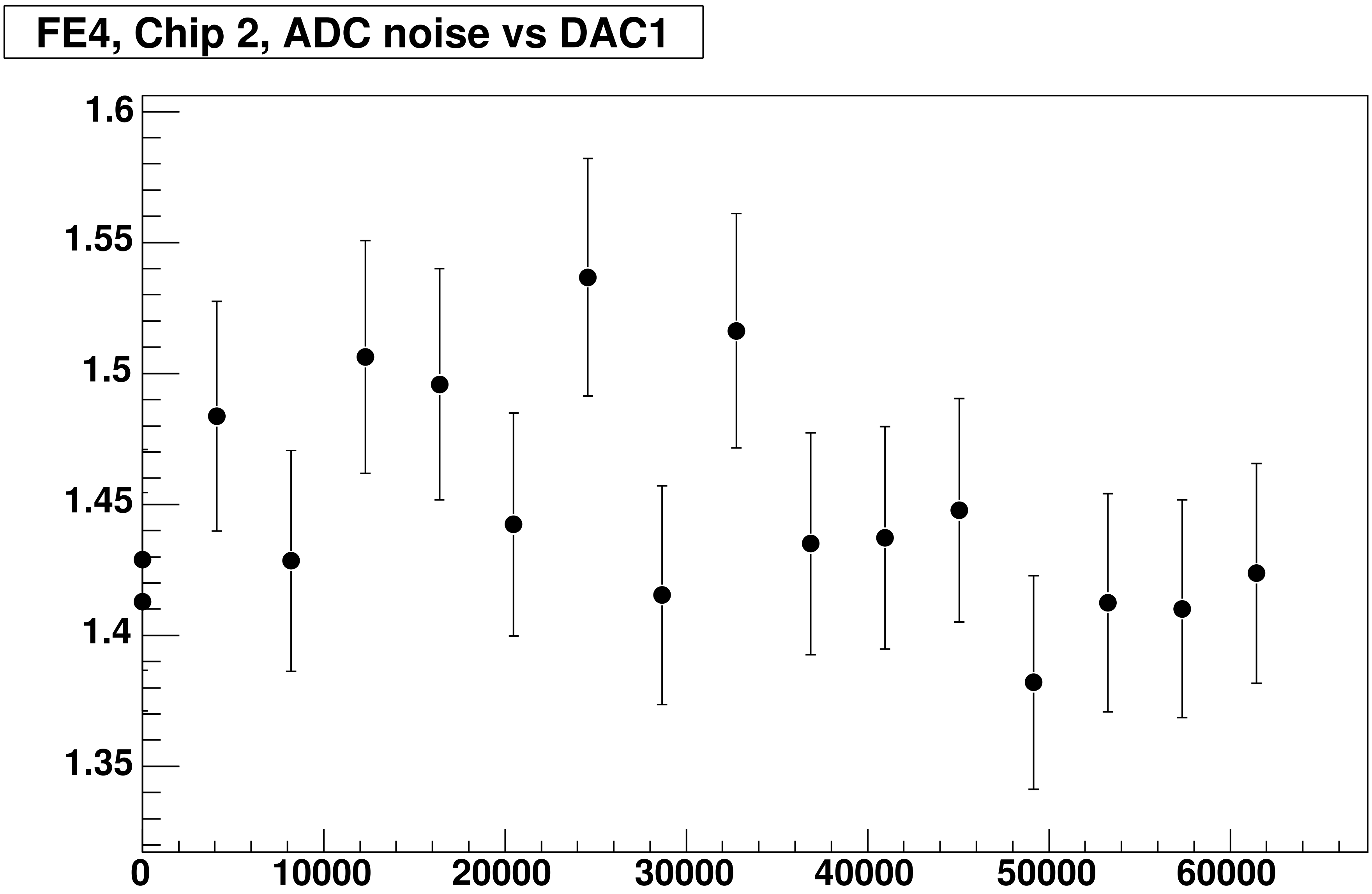


FE4, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

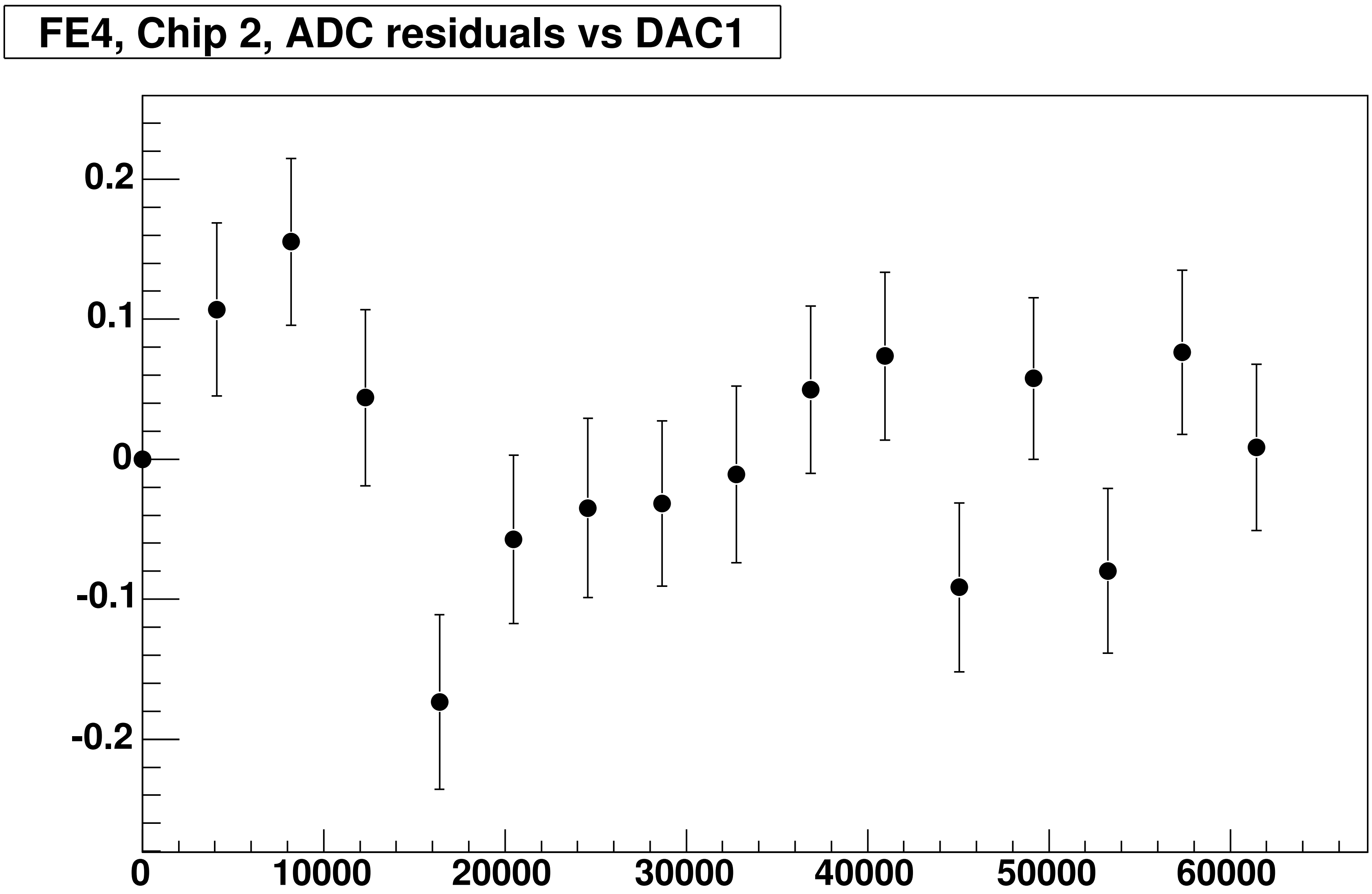


FE4, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

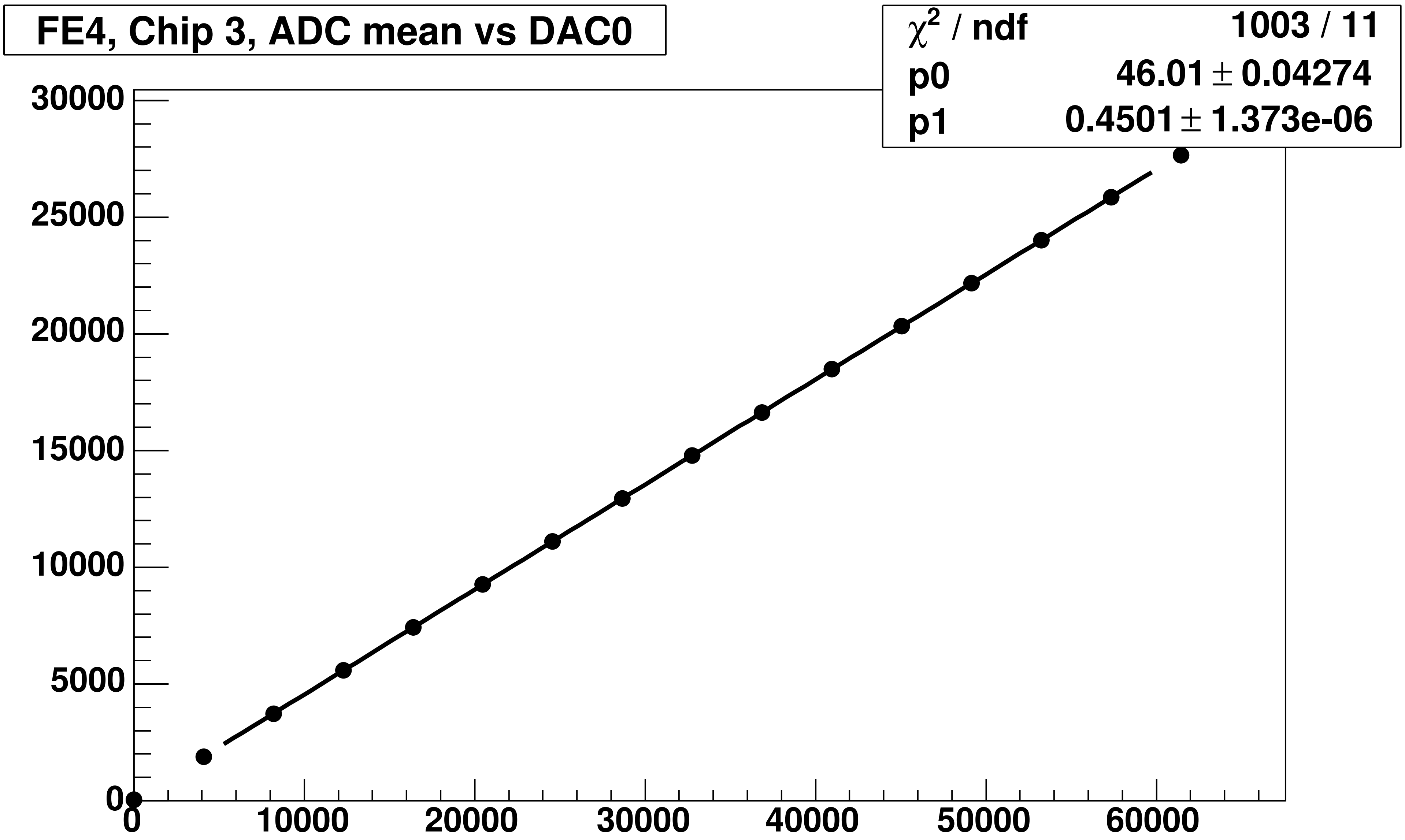

FE4, Chip 2, ADC mean vs DAC1
χ² / ndf 25.57 / 11
p0 46.02 ± 0.0398
p1 5.17e-08 ± 1.085e-06
46.2
46.1
46
45.9
45.8
0
10000
20000
30000
40000
50000
60000

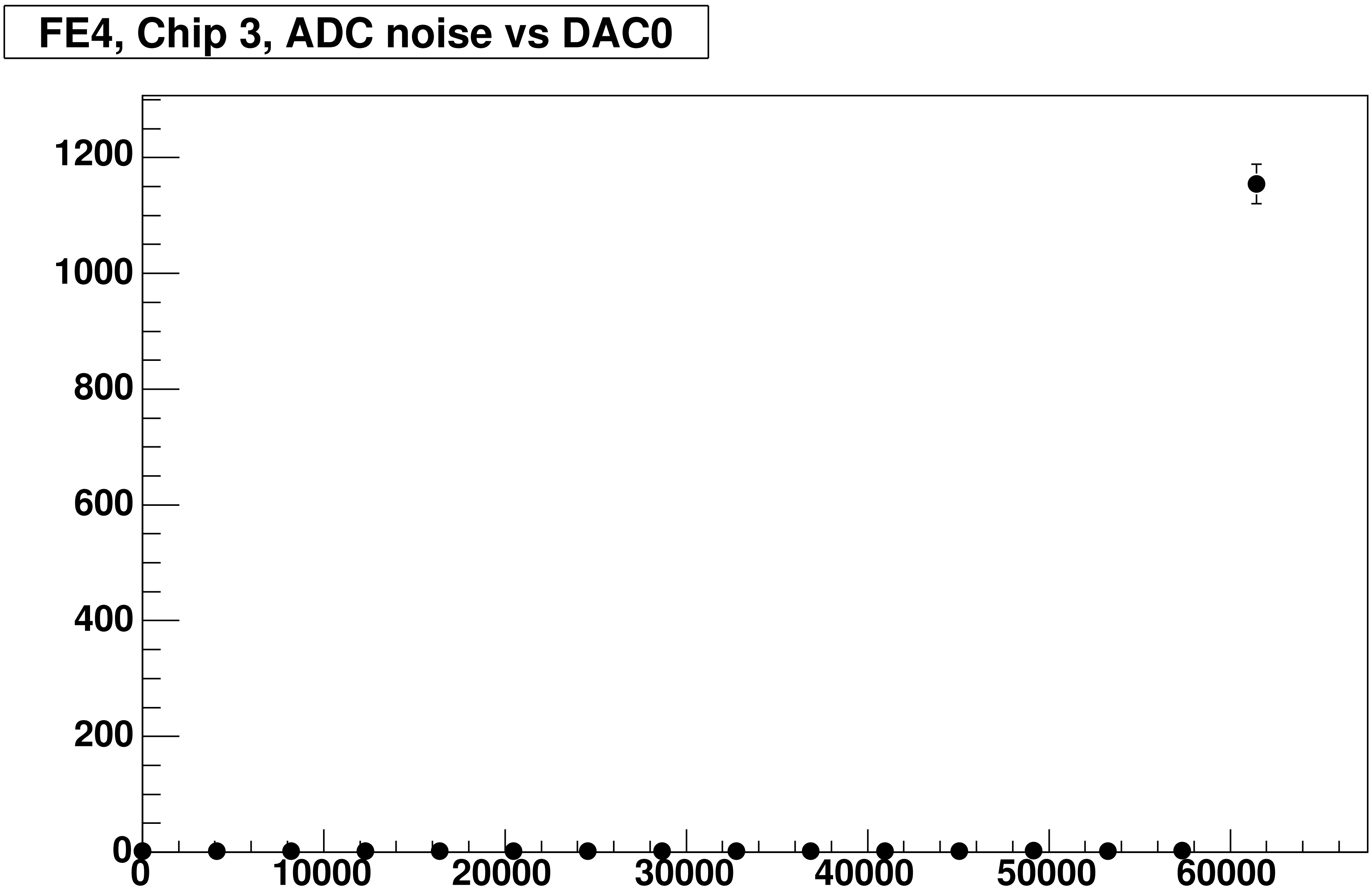


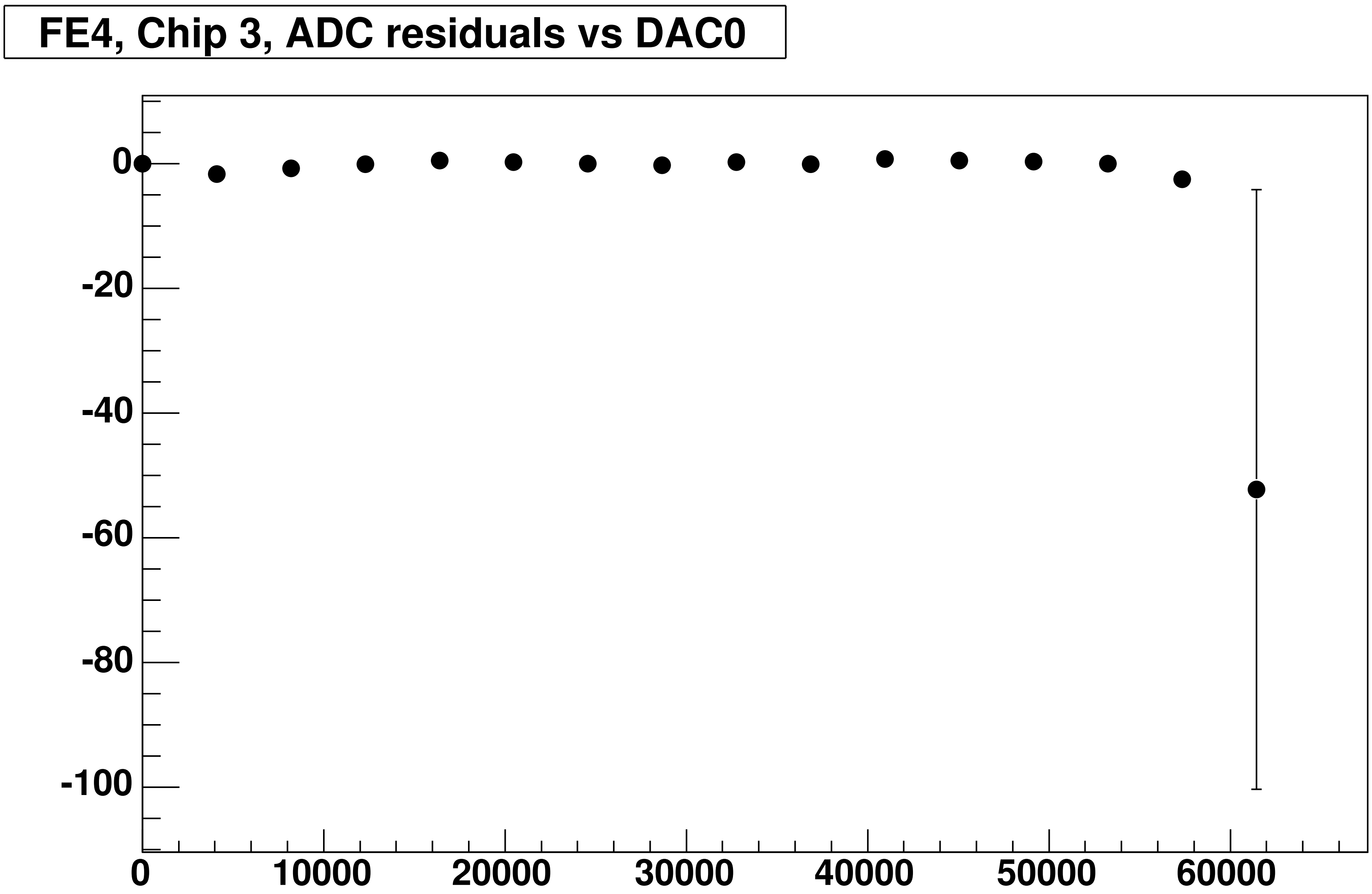
FE4, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

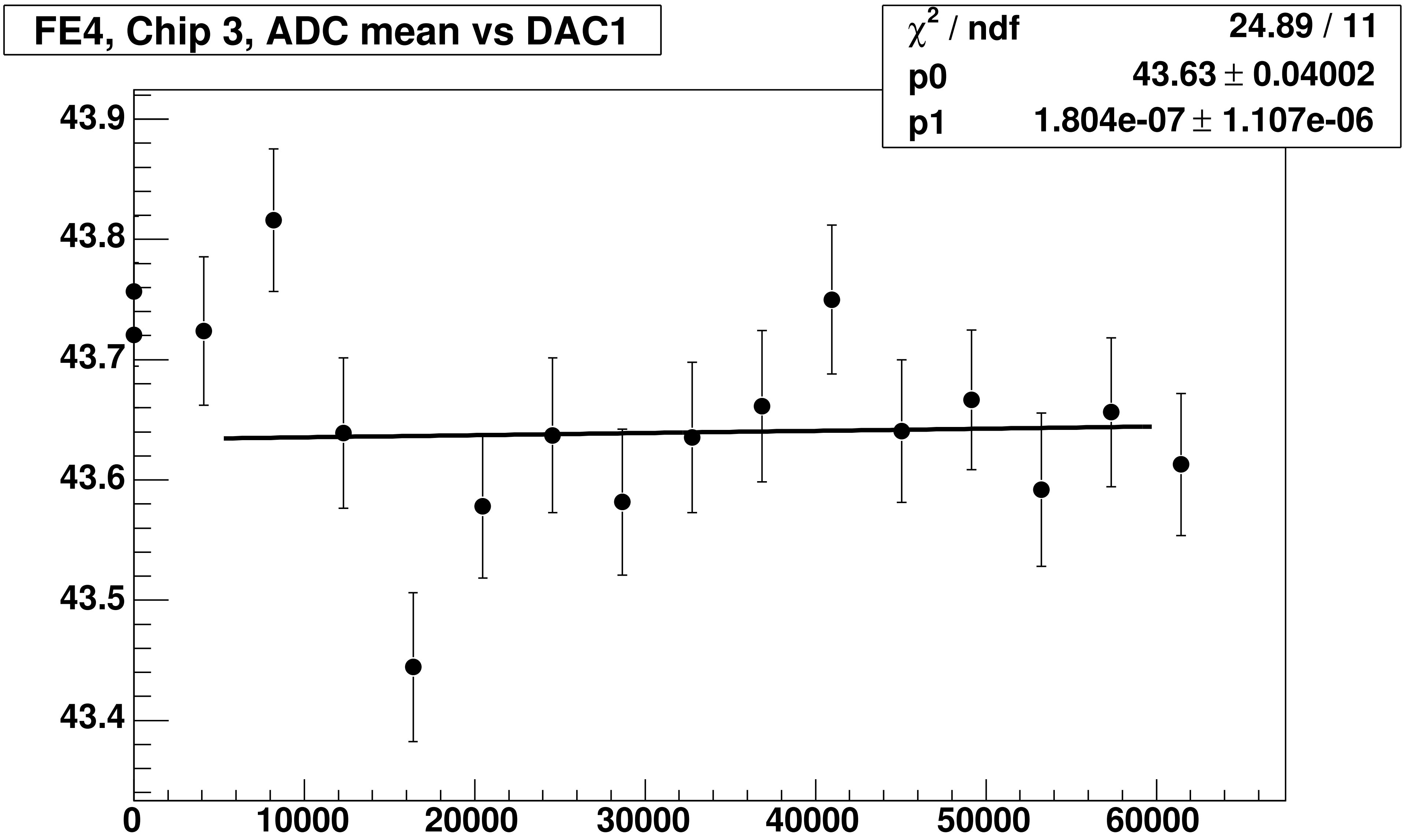


FE4, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

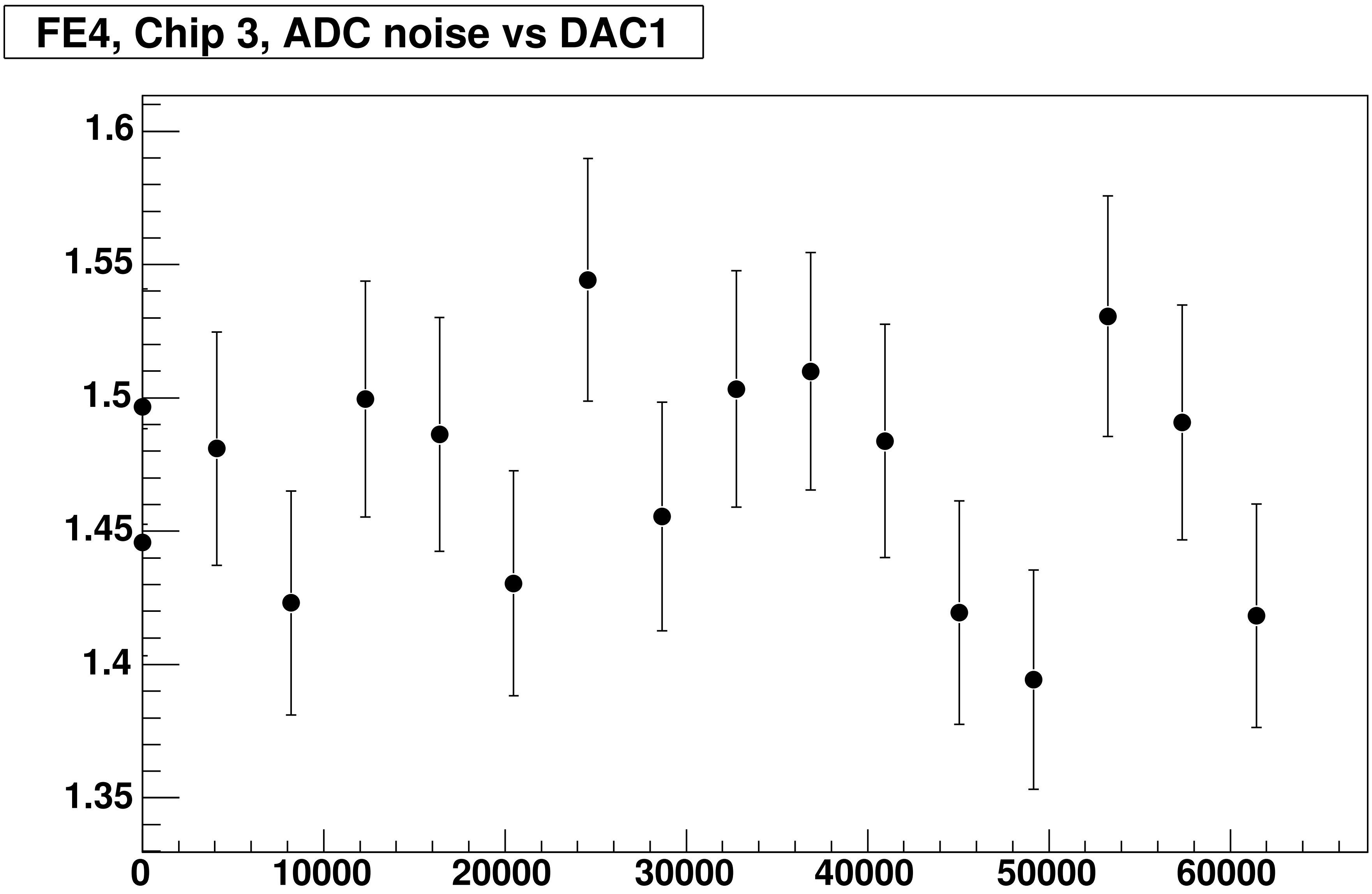

FE4, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1003 / 11
p0 46.01 ± 0.04274
p1 0.4501 ± 1.373e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

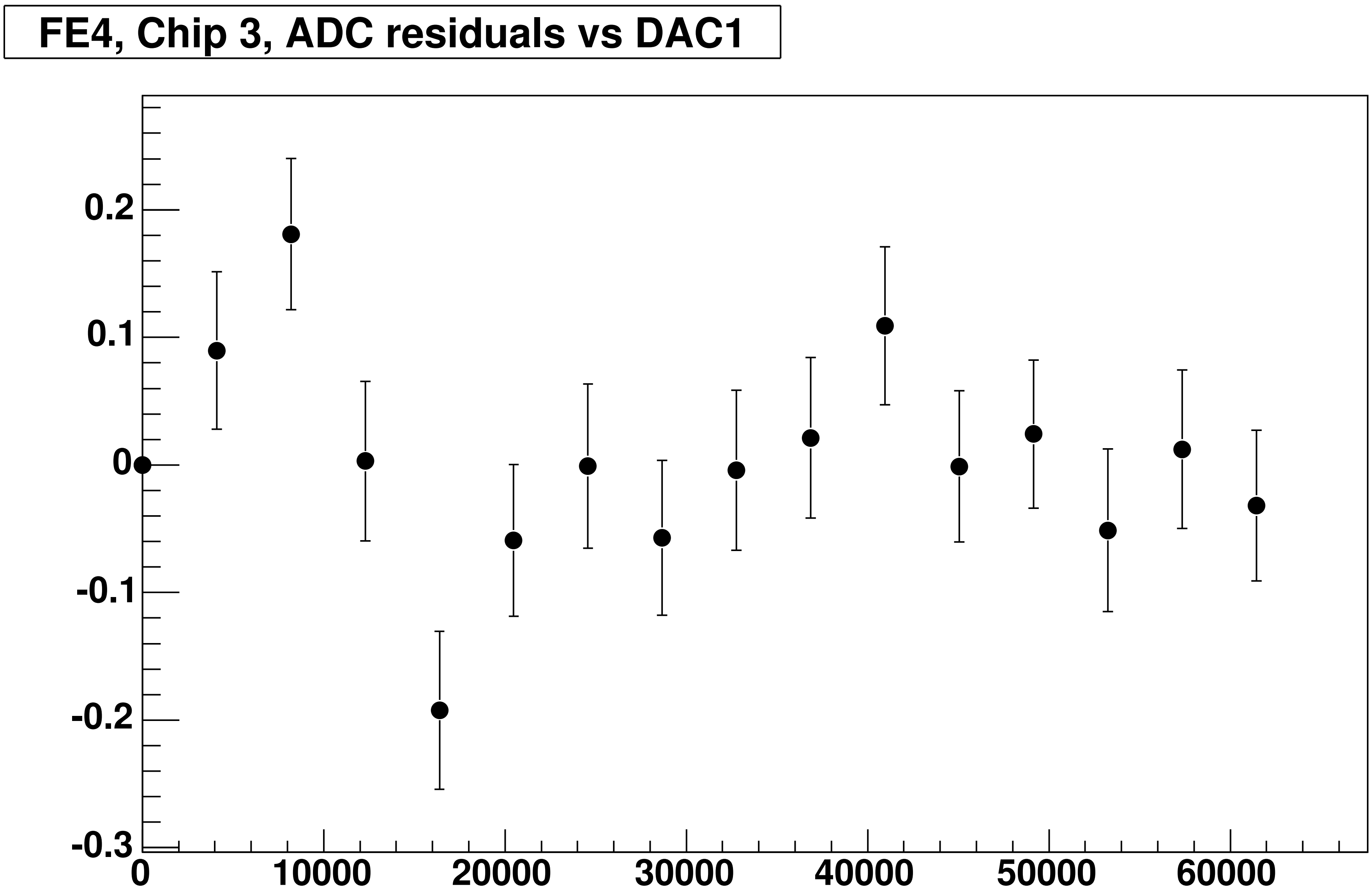

FE4, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



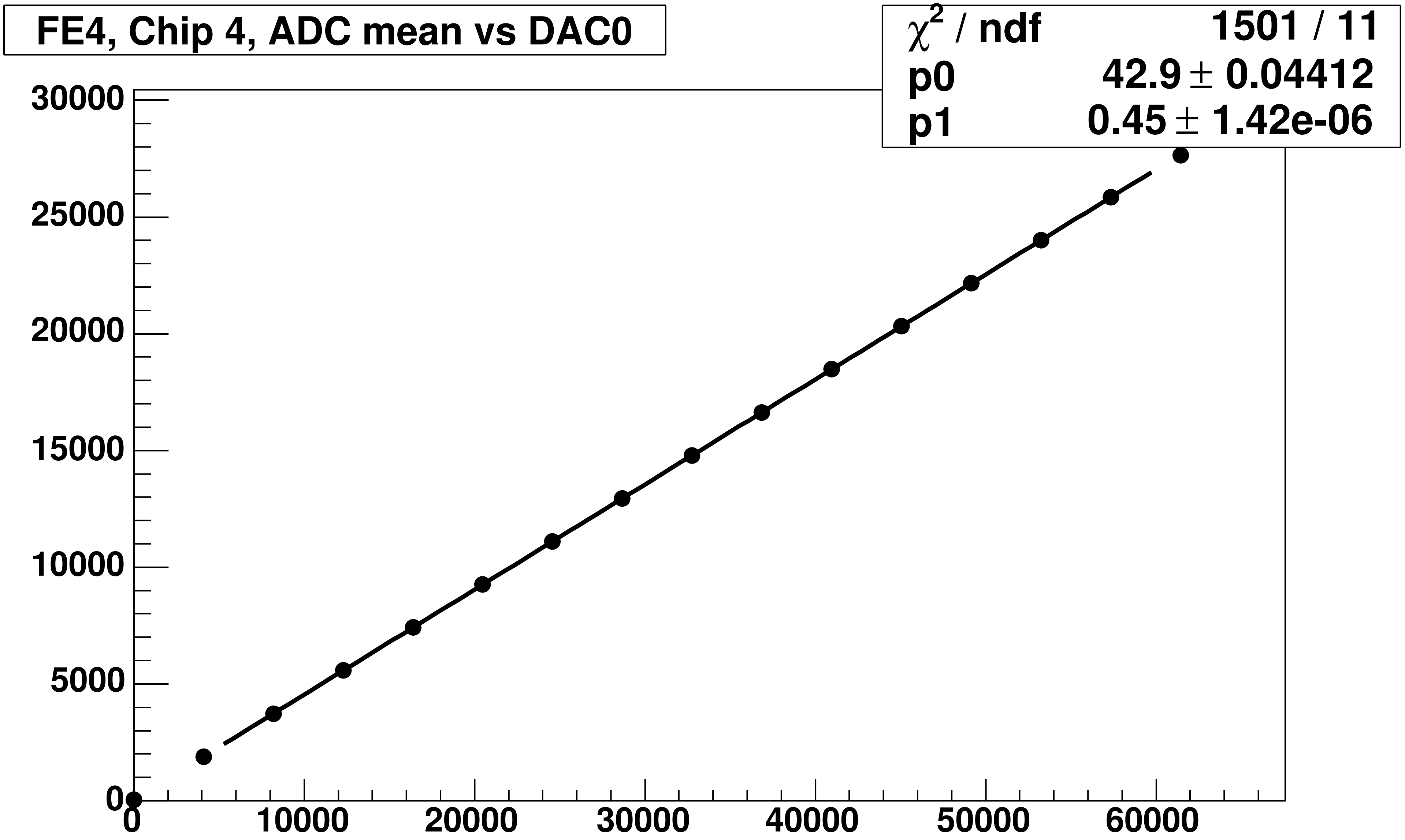
FE4, Chip 3, ADC mean vs DAC1
χ² / ndf 24.89 / 11
p0 43.63 ± 0.04002
p1 1.804e-07 ± 1.107e-06
43.4
43.5
43.6
43.7
43.8
43.9
0
10000
20000
30000
40000
50000
60000



FE4, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

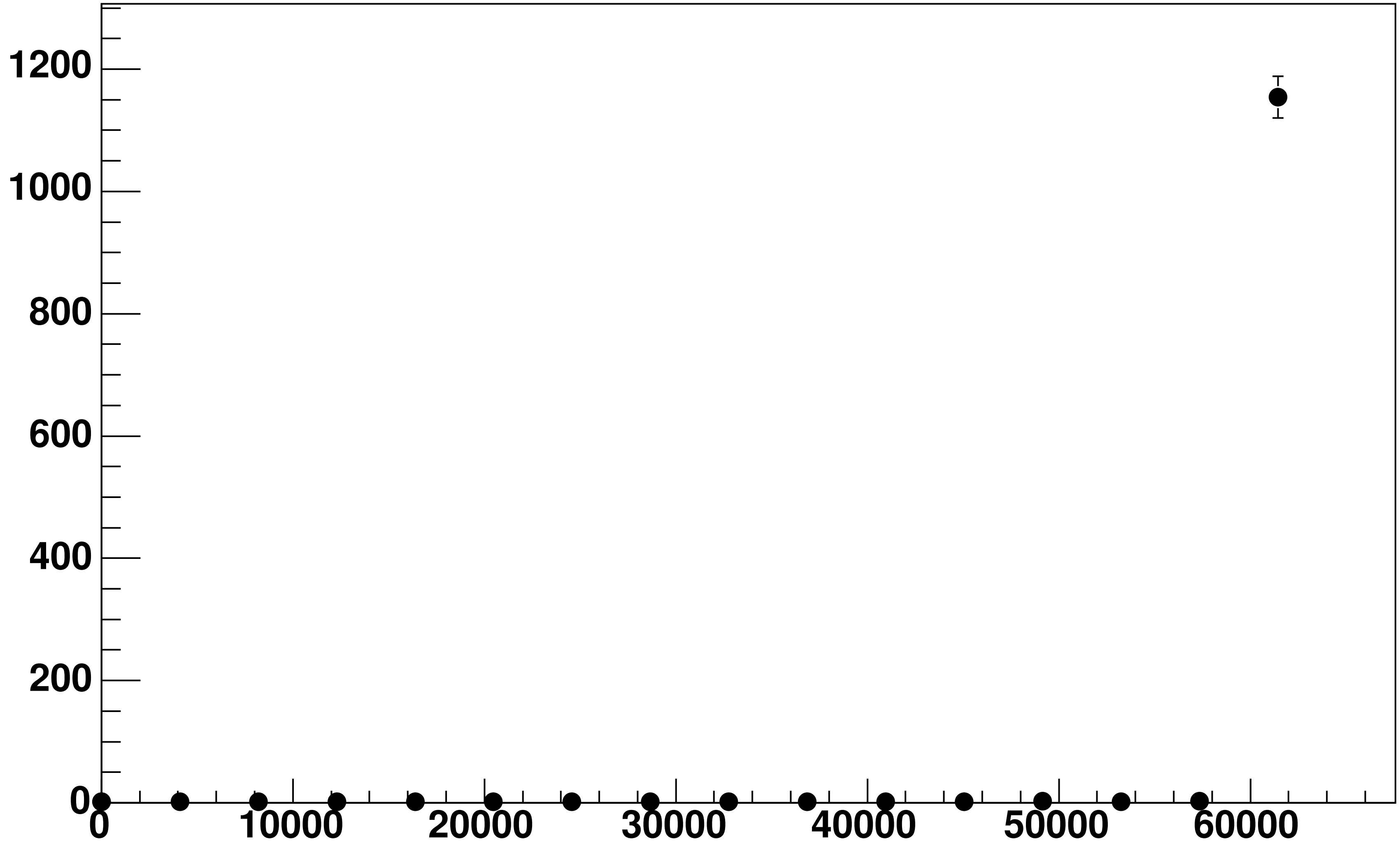


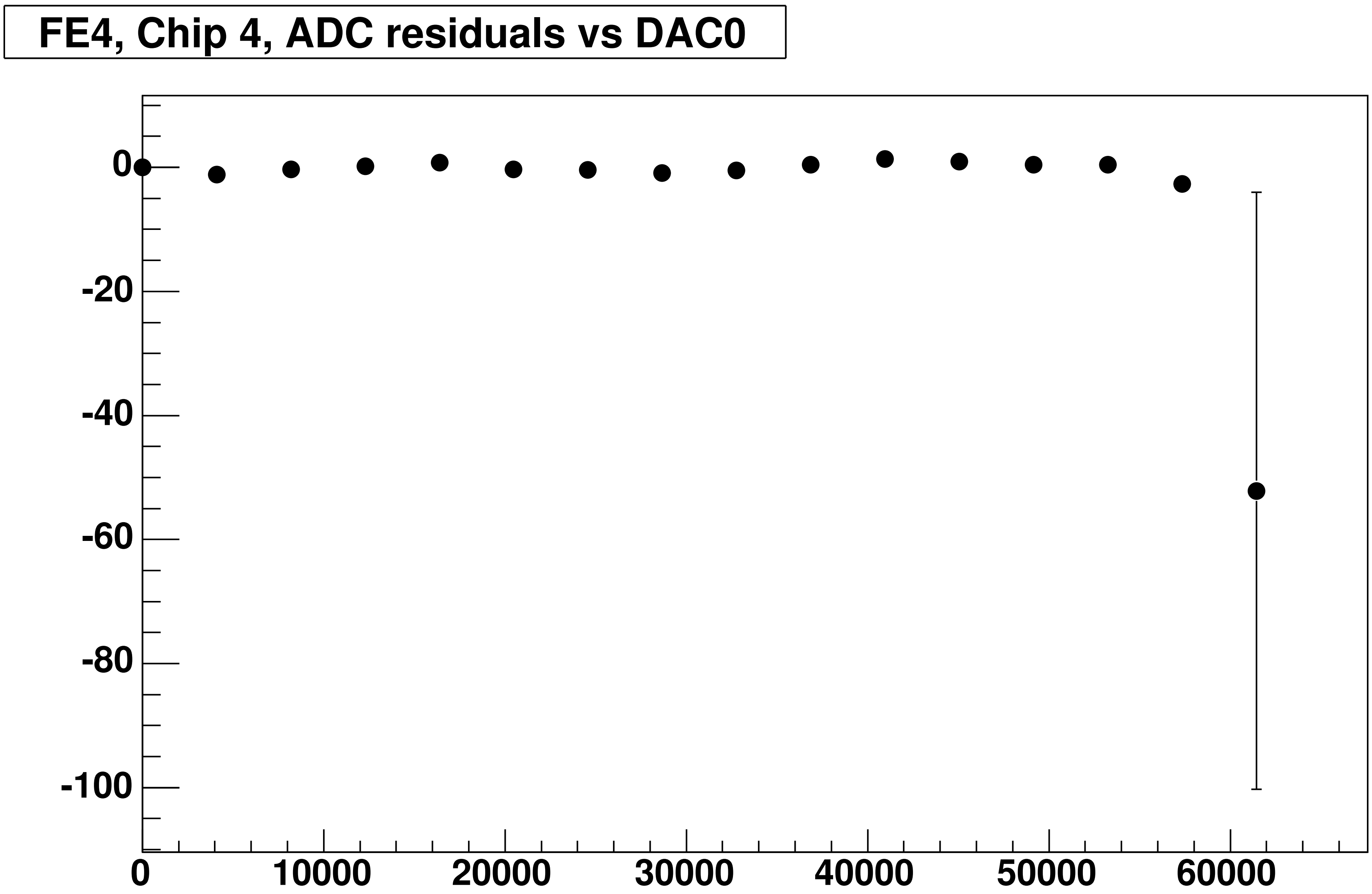
FE4, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



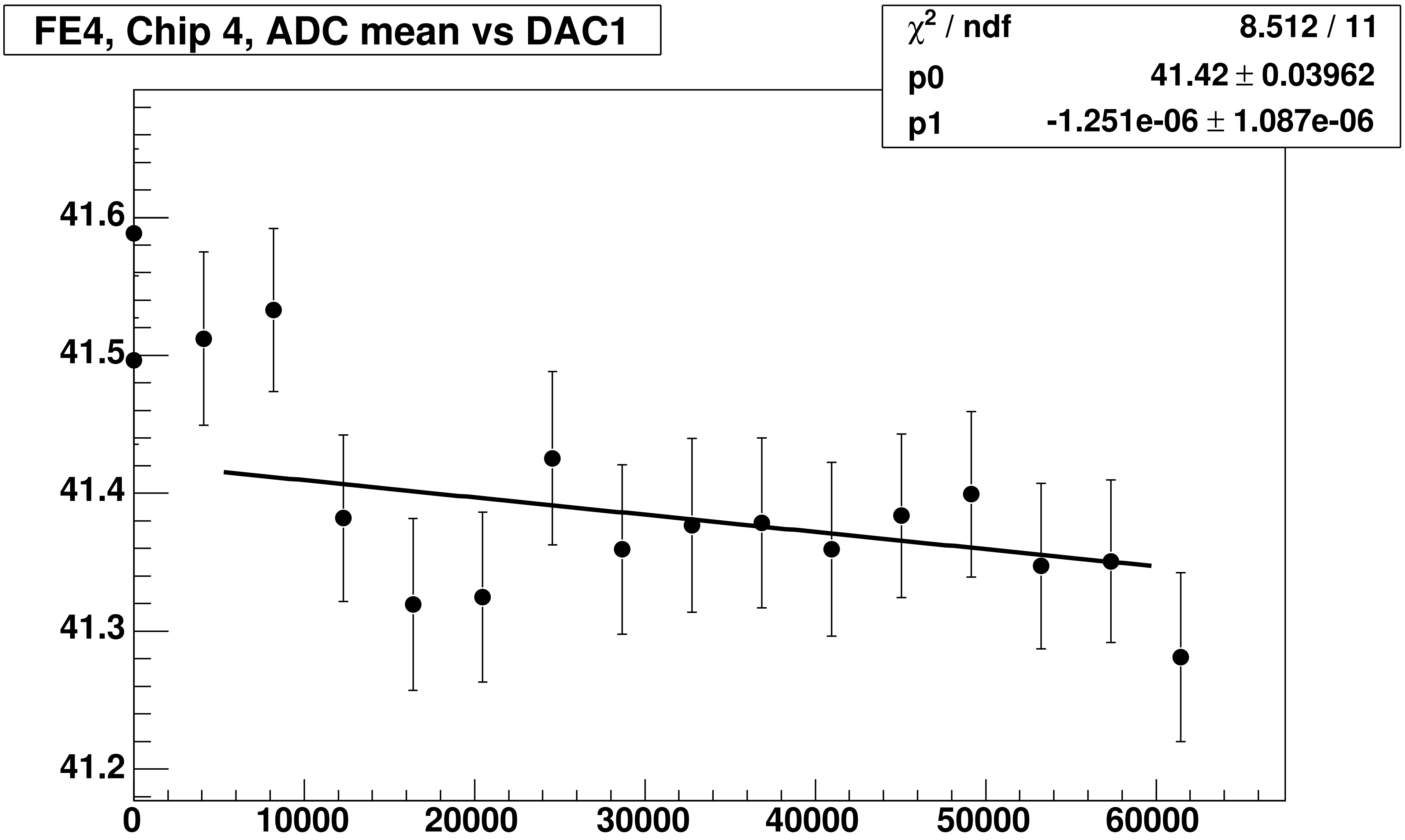
FE4, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1501 / 11
p0 42.9 ± 0.04412
p1 0.45 ± 1.42e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

FE4, Chip 4, ADC noise vs DAC0

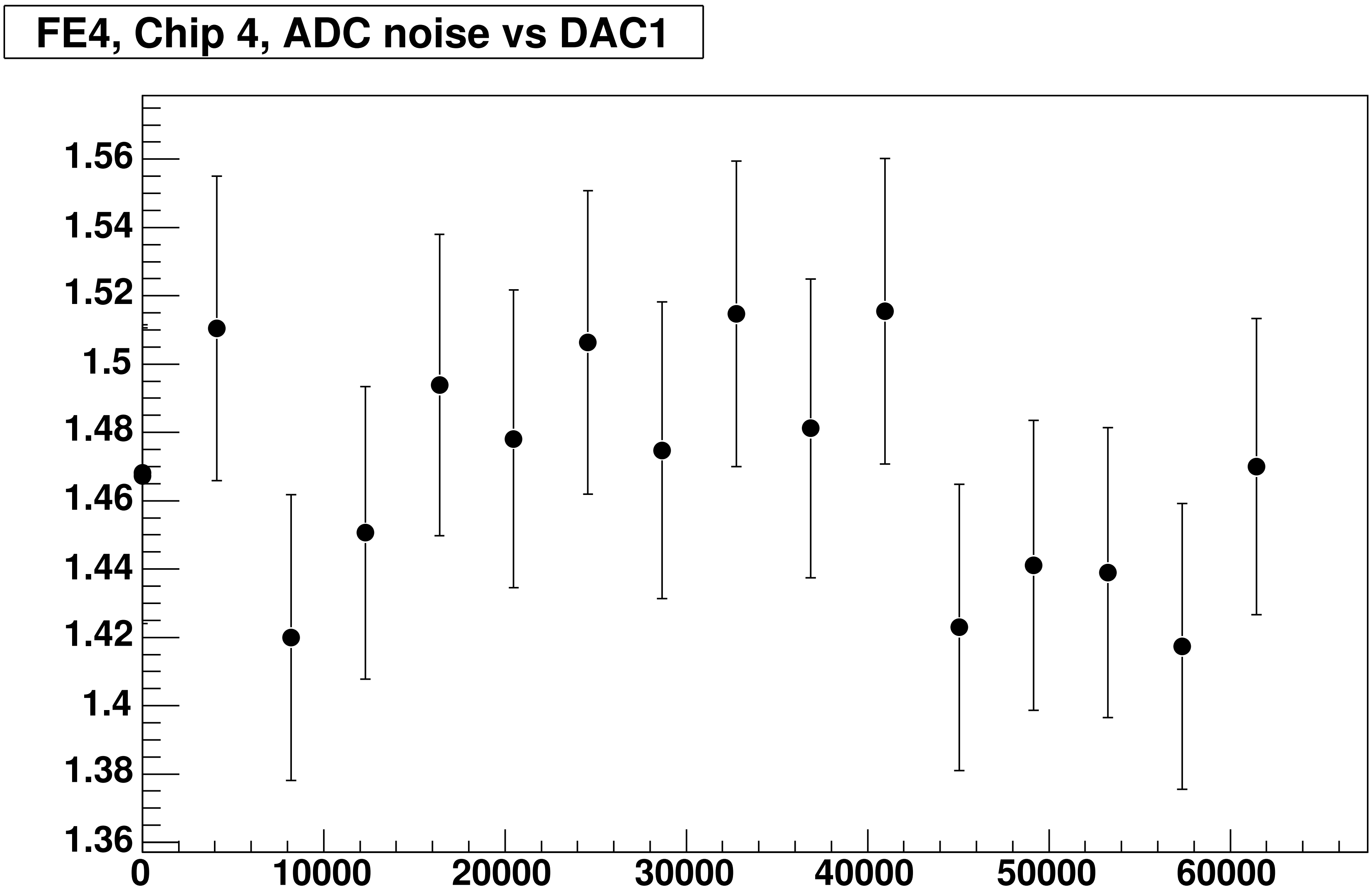




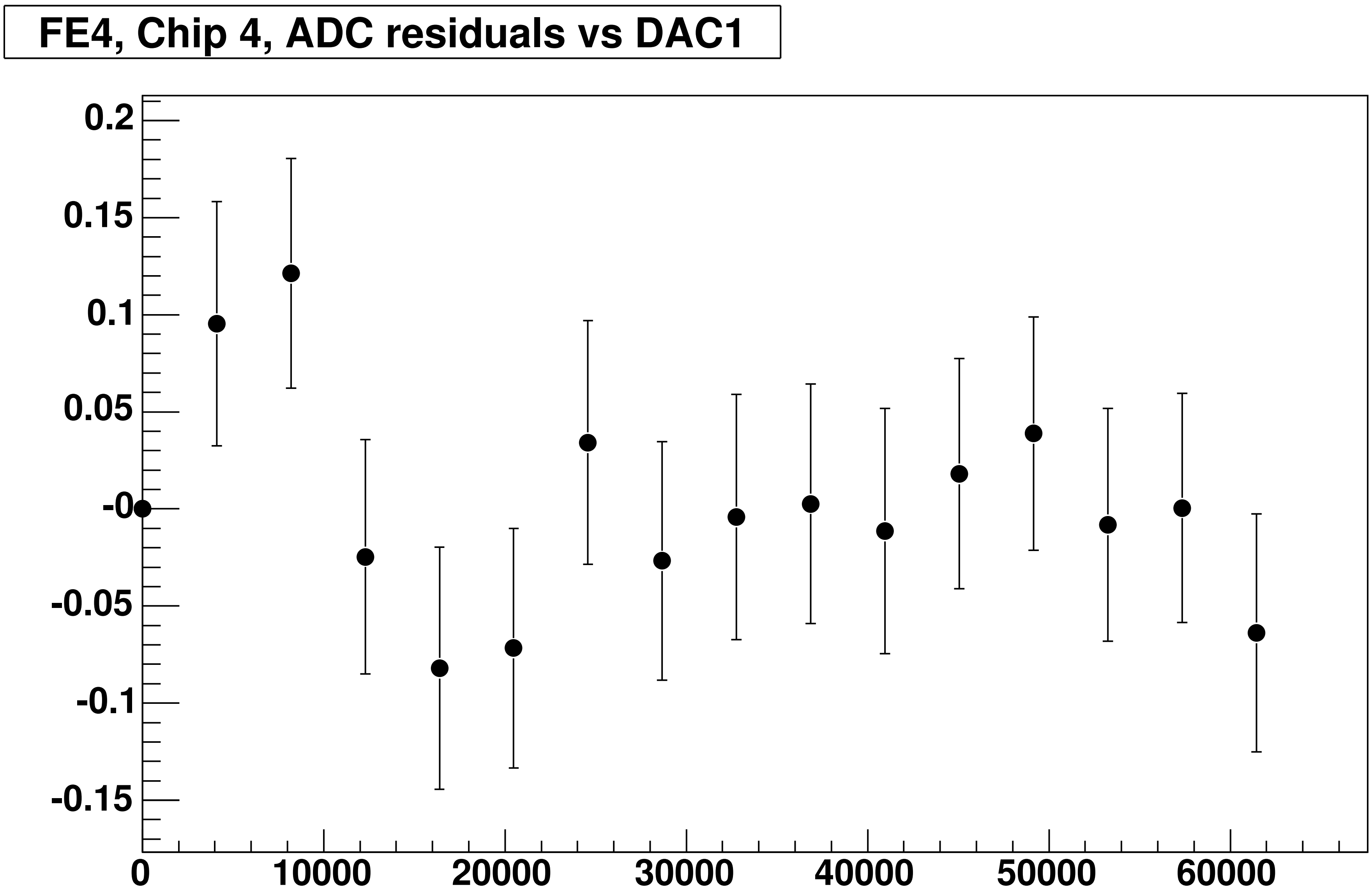
FE4, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

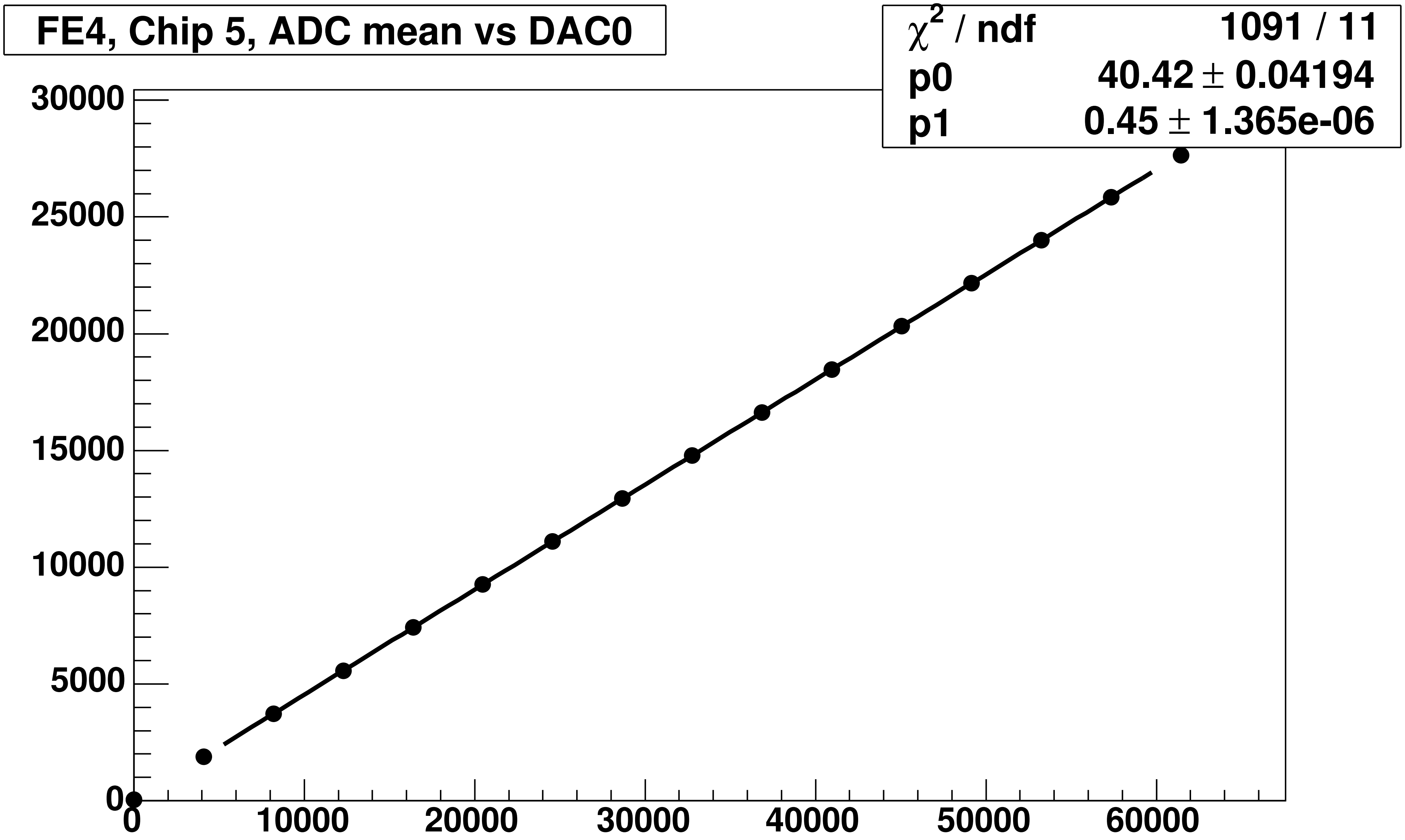


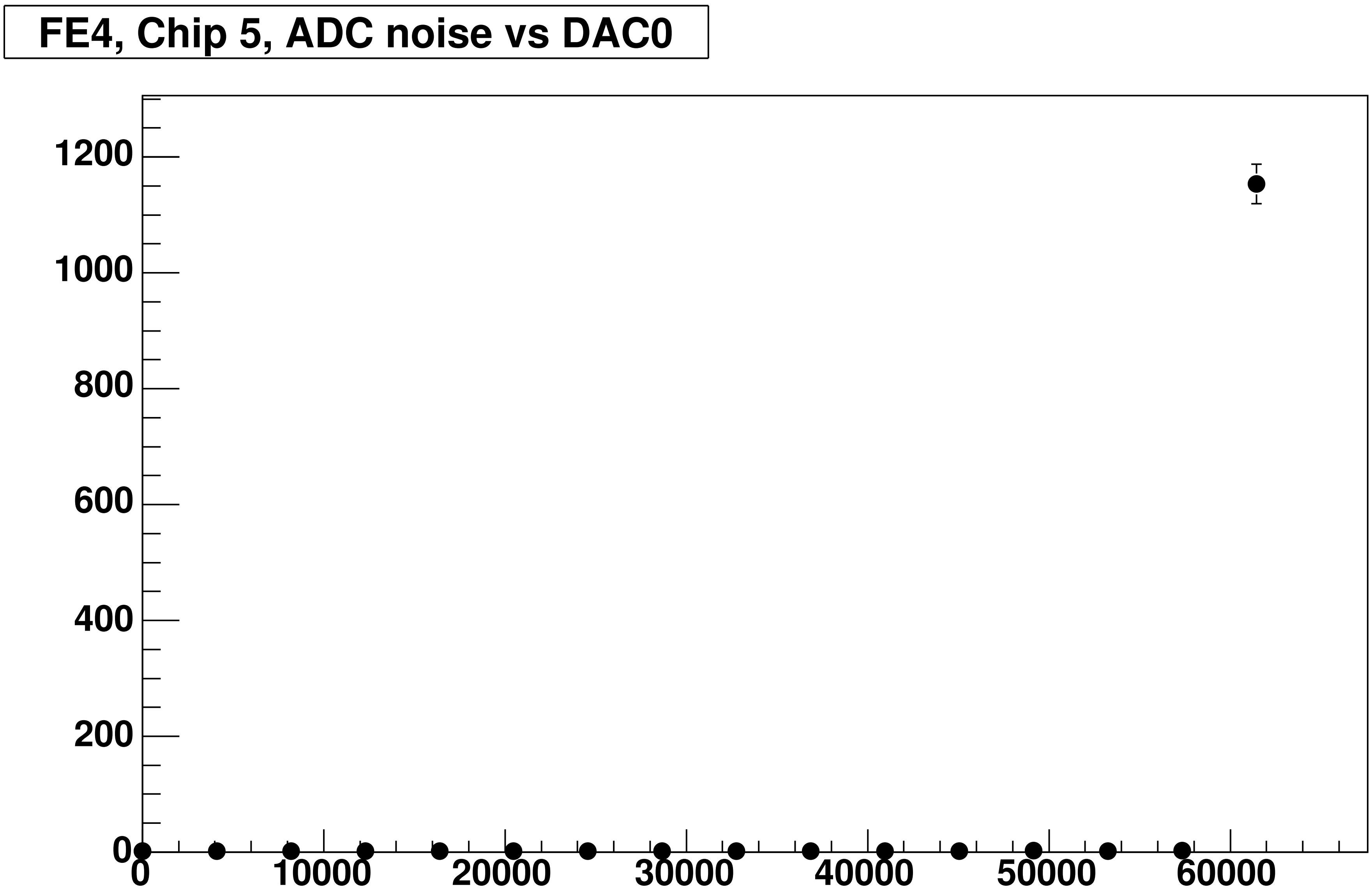
FE4, Chip 4, ADC mean vs DAC1
χ^2 / ndf 8.512 / 11
p0 41.42 ± 0.03962
p1 -1.251e-06 ± 1.087e-06
41.2
41.3
41.4
41.5
41.6
0
10000
20000
30000
40000
50000
60000



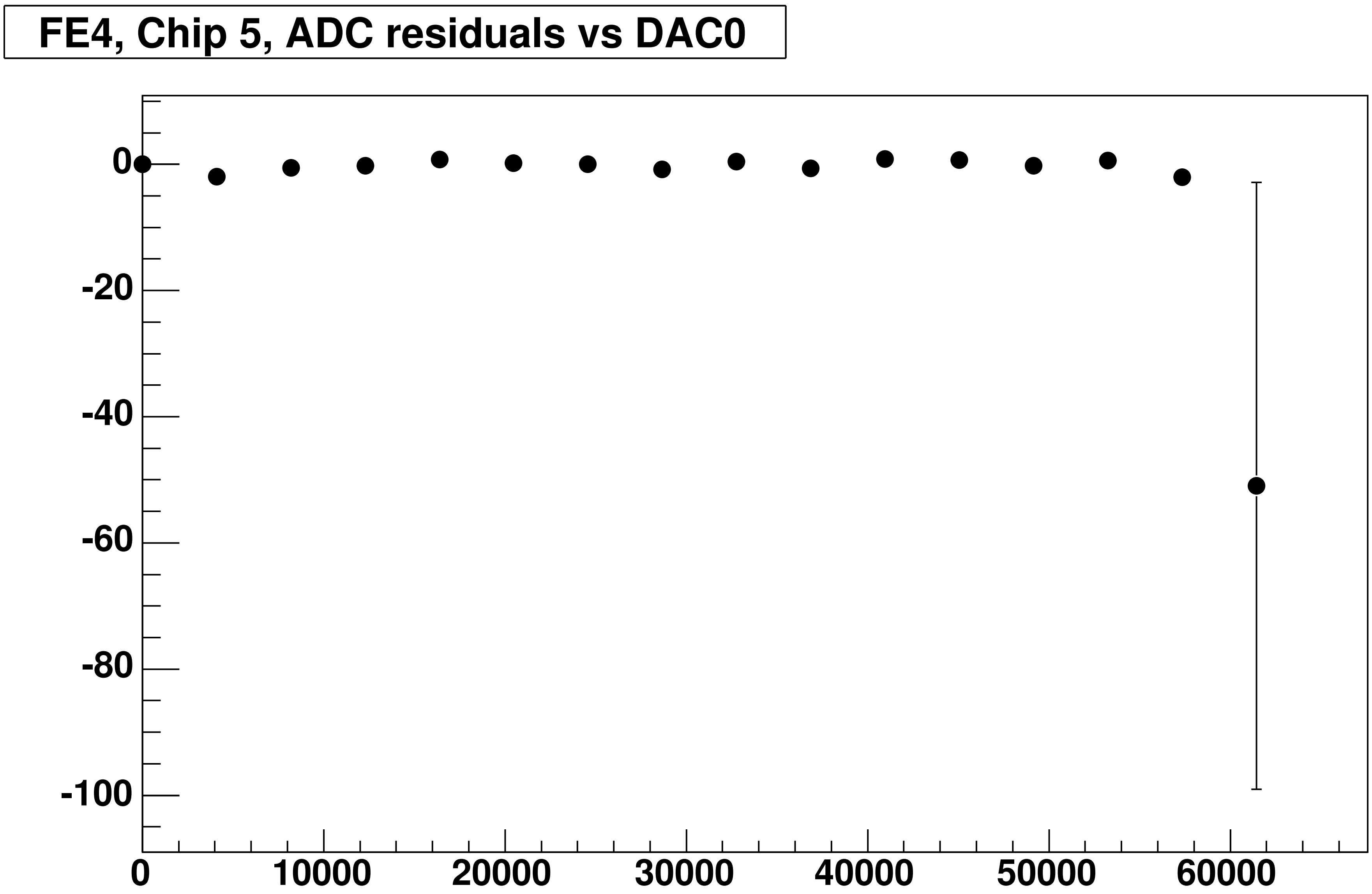
FE4, Chip 4, ADC noise vs DAC1
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
0
10000
20000
30000
40000
50000
60000

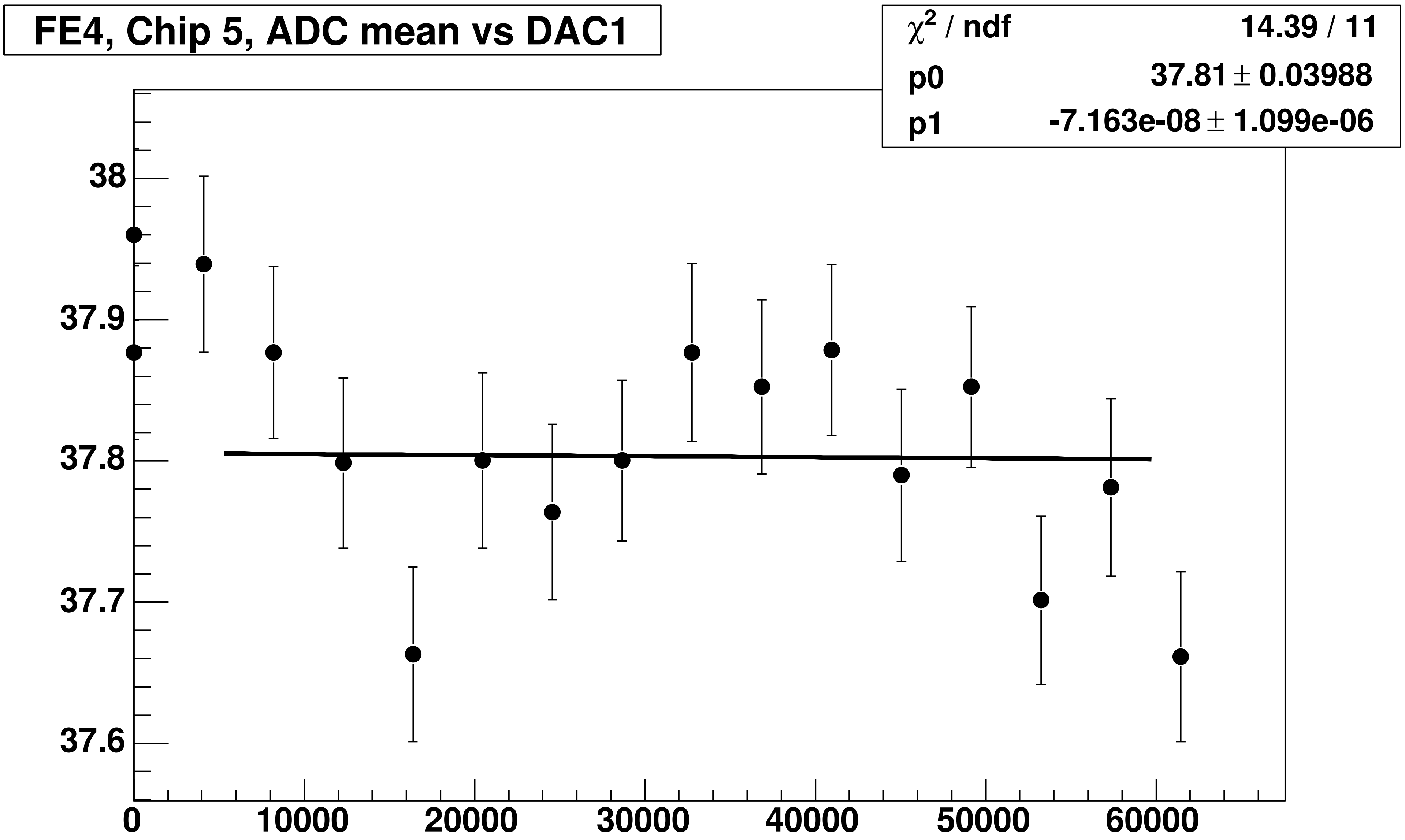

FE4, Chip 4, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000


FE4, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1091 / 11
p0 40.42 ± 0.04194
p1 0.45 ± 1.365e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

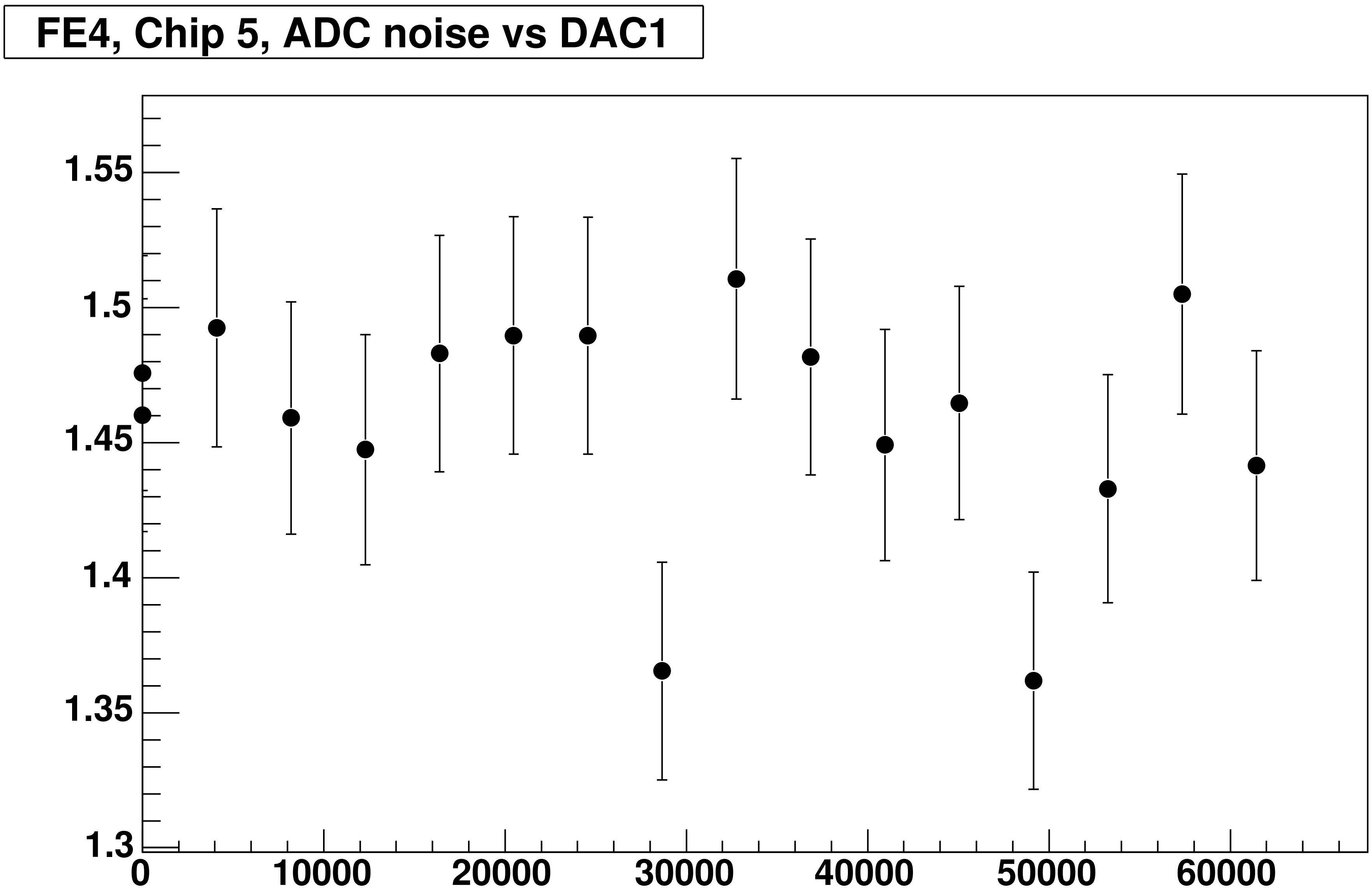


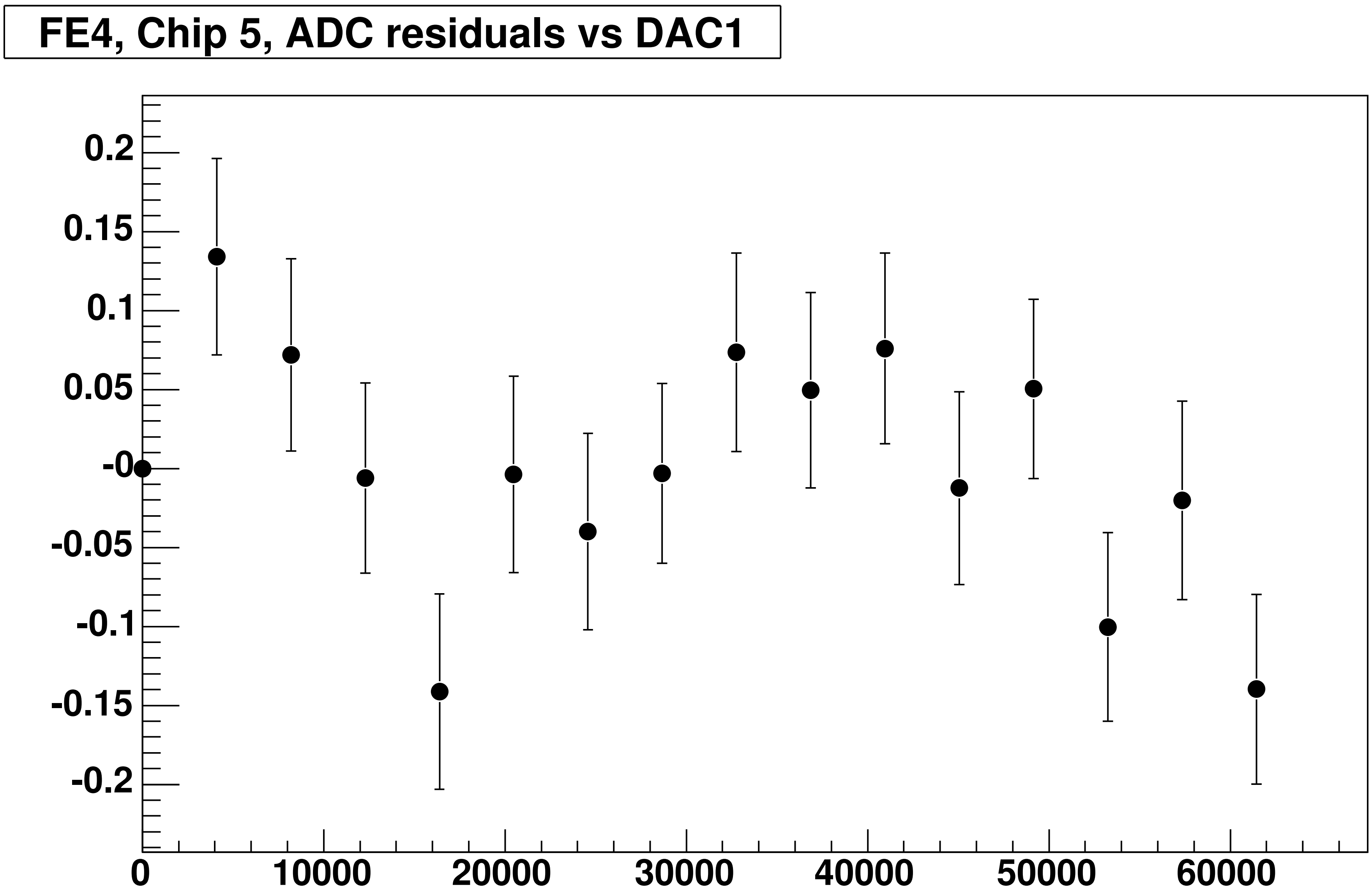
FE4, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

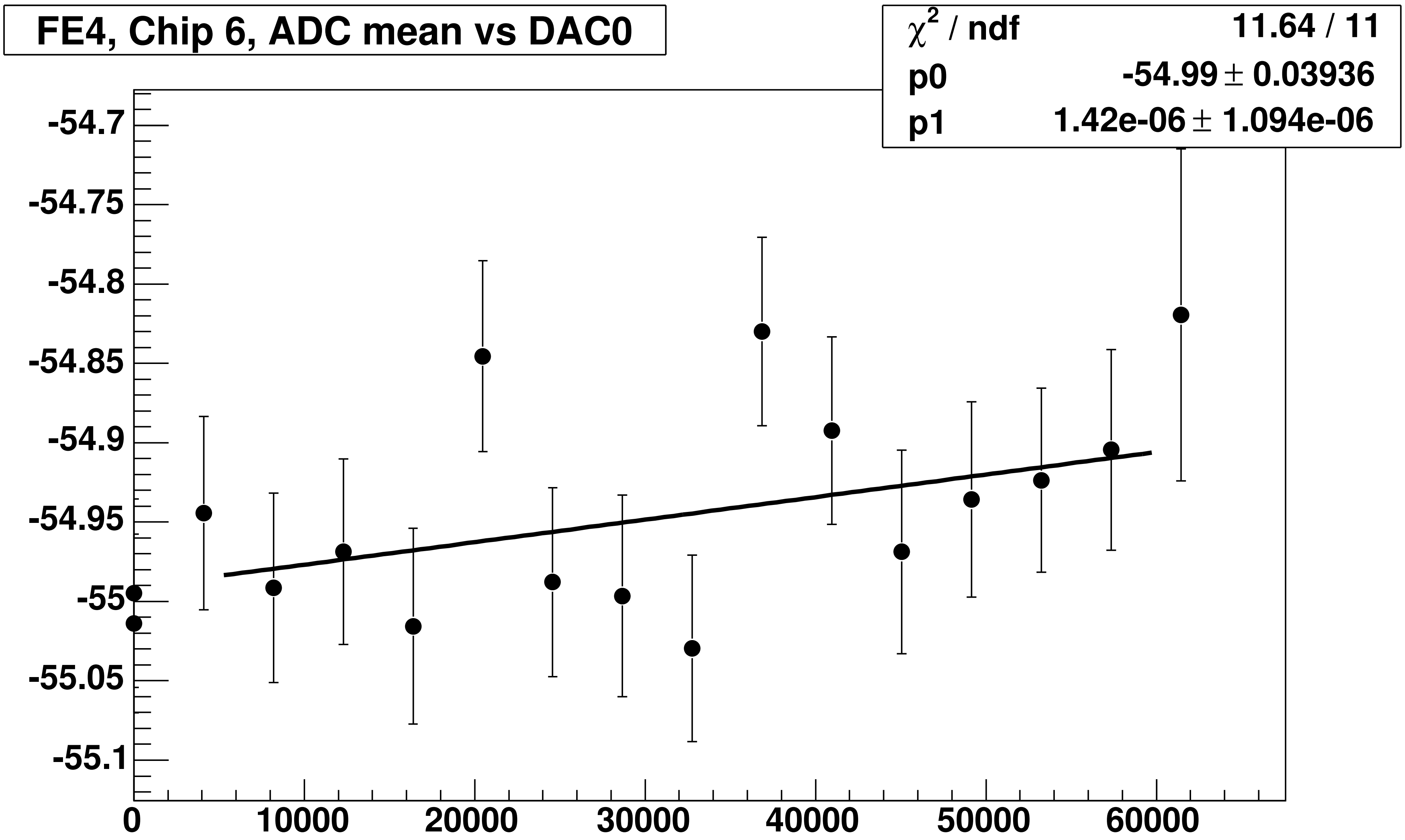

FE4, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

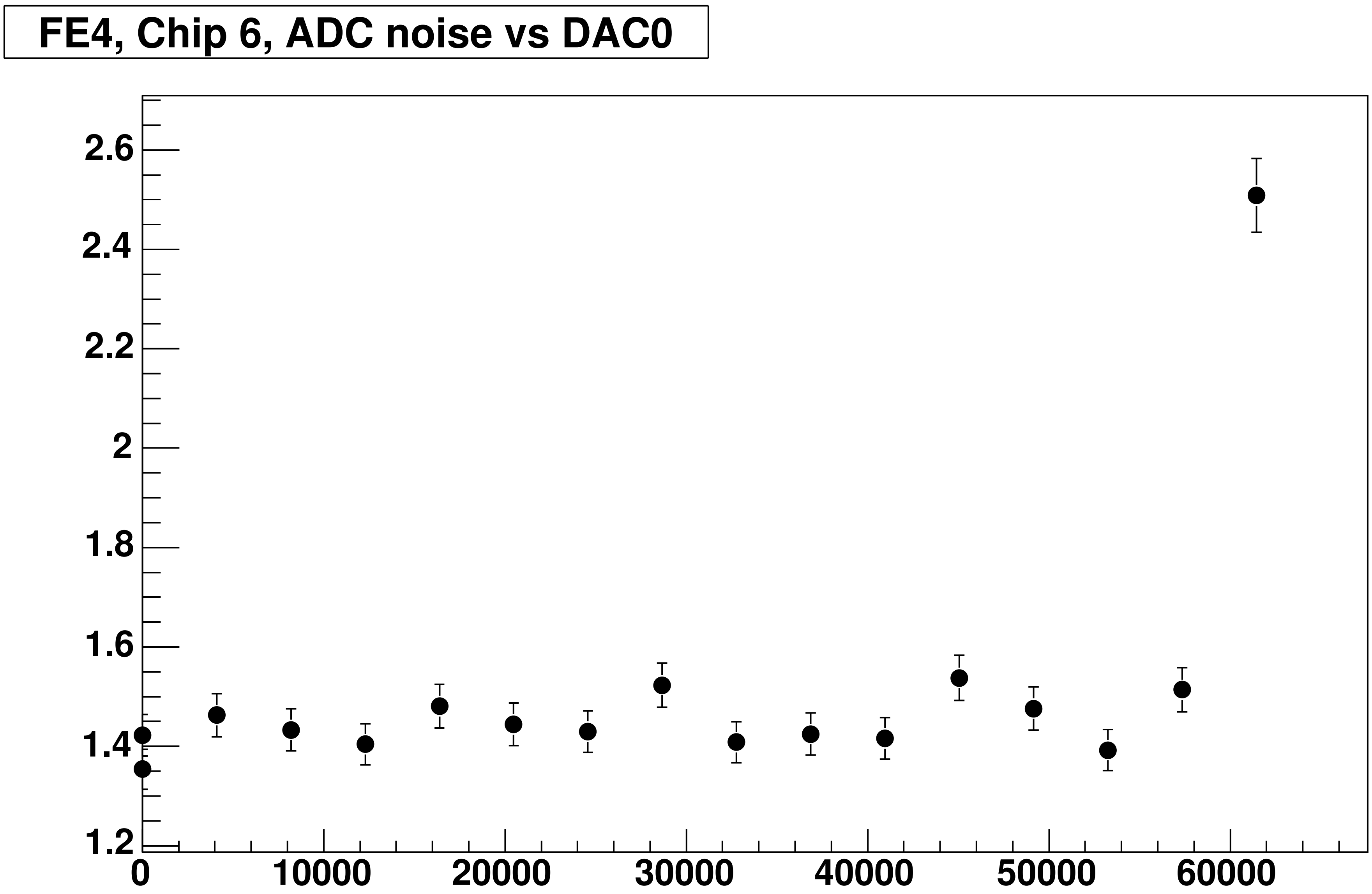


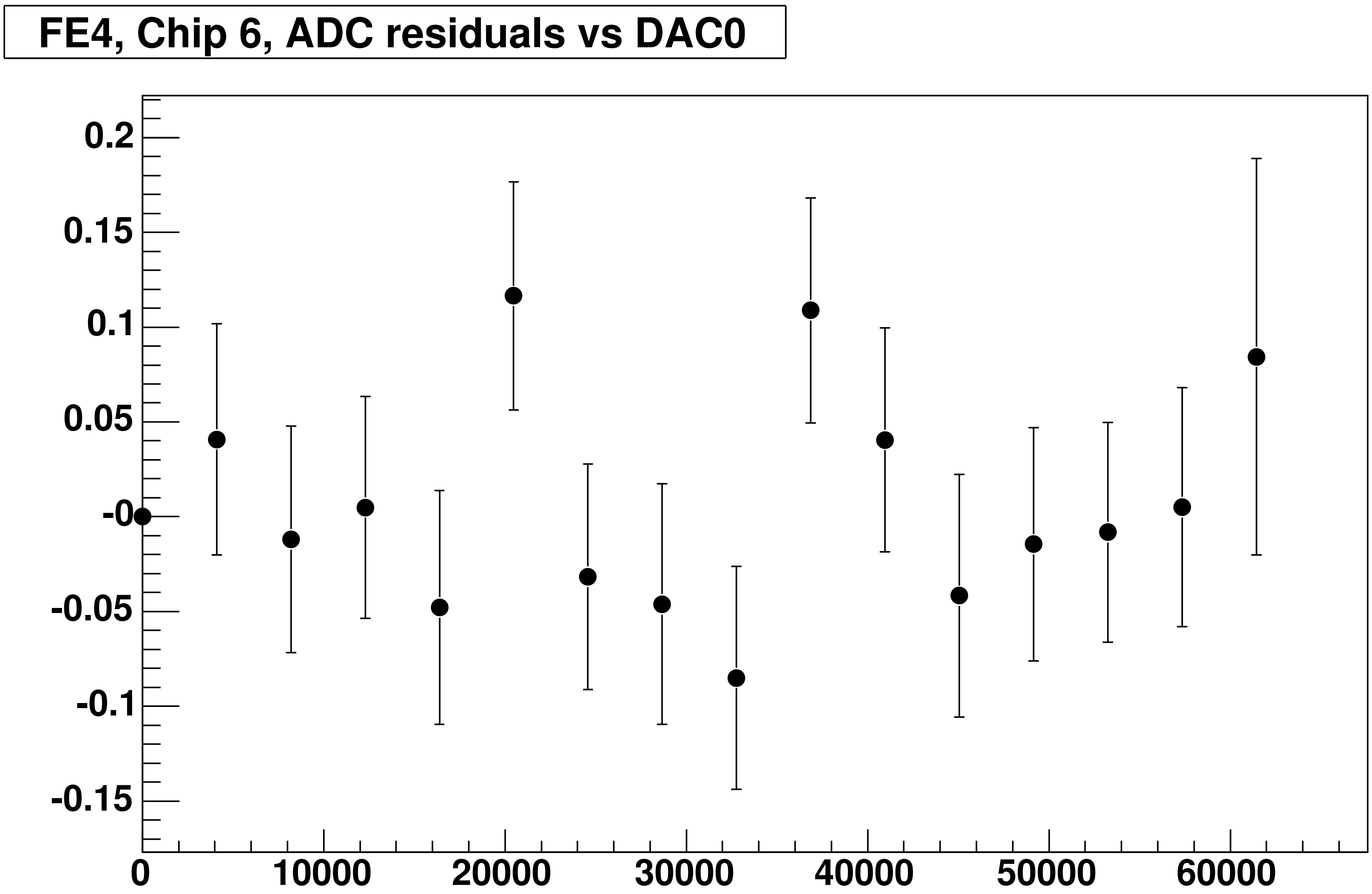
FE4, Chip 5, ADC mean vs DAC1
χ^2 / ndf 14.39 / 11
p0 37.81 ± 0.03988
p1 -7.163e-08 ± 1.099e-06
38
37.9
37.8
37.7
37.6
0
10000
20000
30000
40000
50000
60000

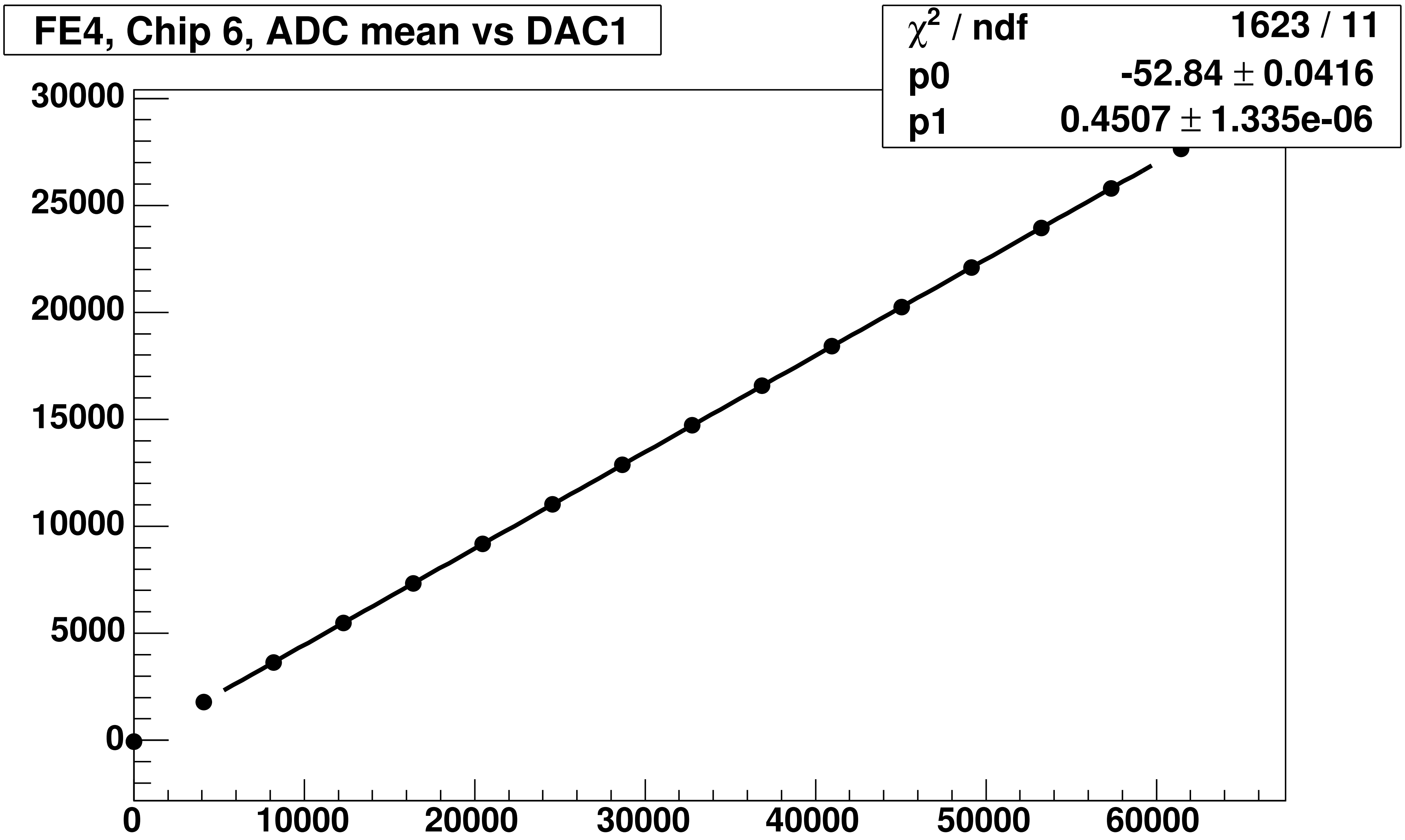

FE4, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

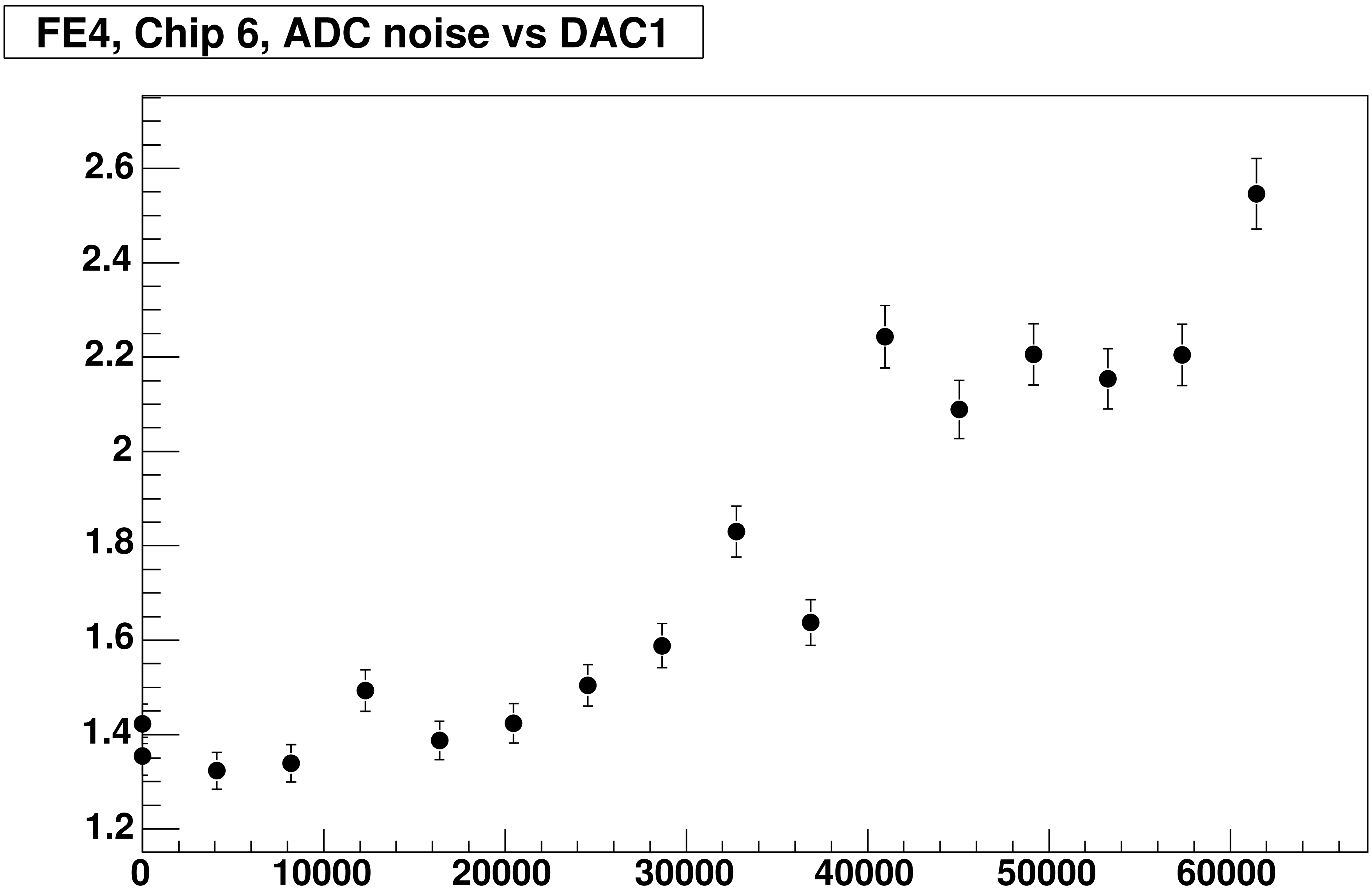

FE4, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE4, Chip 6, ADC mean vs DAC0
χ^2 / ndf 11.64 / 11
p0 -54.99 ± 0.03936
p1 1.42e-06 ± 1.094e-06
-54.7
-54.75
-54.8
-54.85
-54.9
-54.95
-55
-55.05
-55.1
0
10000
20000
30000
40000
50000
60000

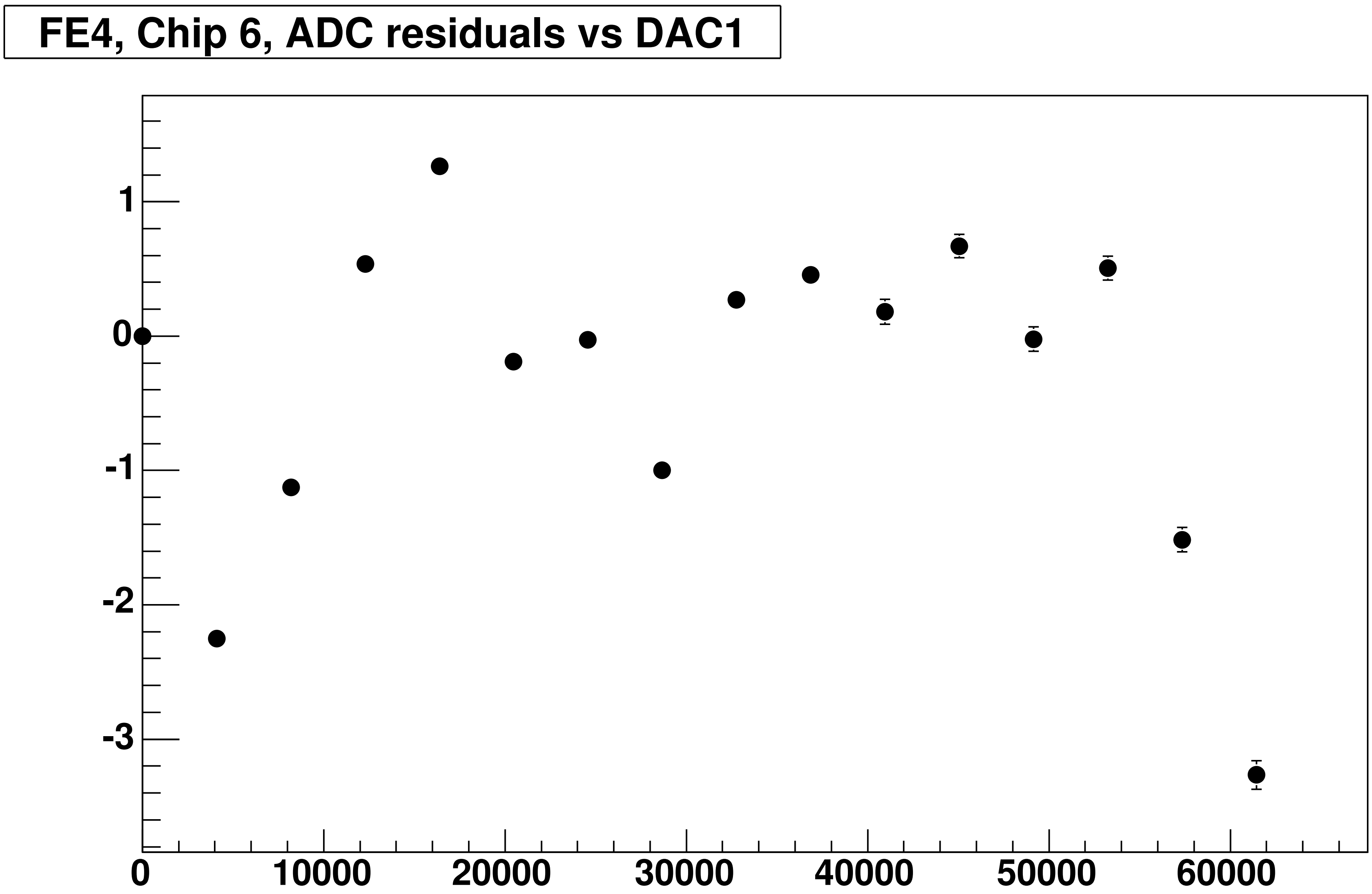

FE4, Chip 6, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

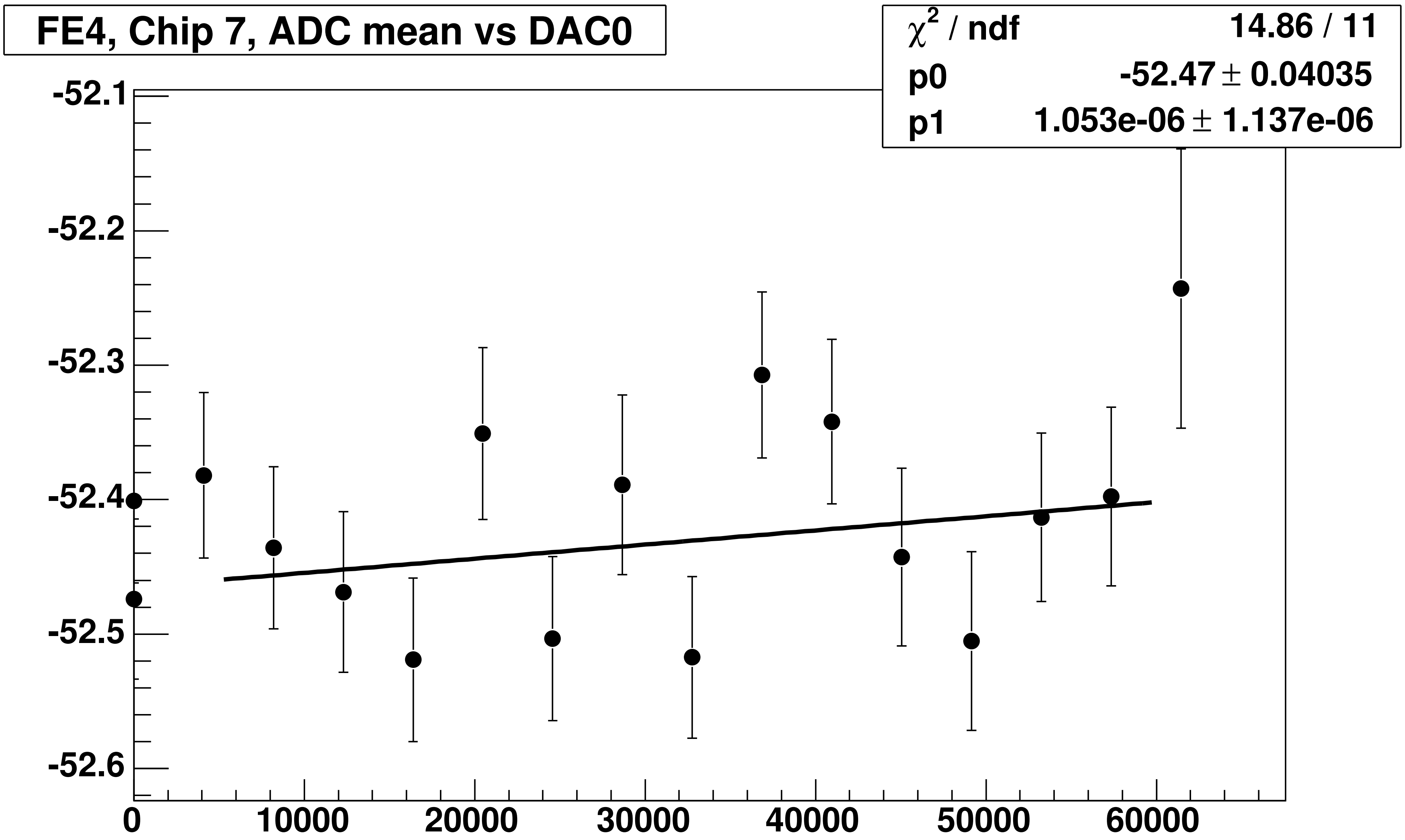

FE4, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1623 / 11
p0 -52.84 ± 0.0416
p1 0.4507 ± 1.335e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



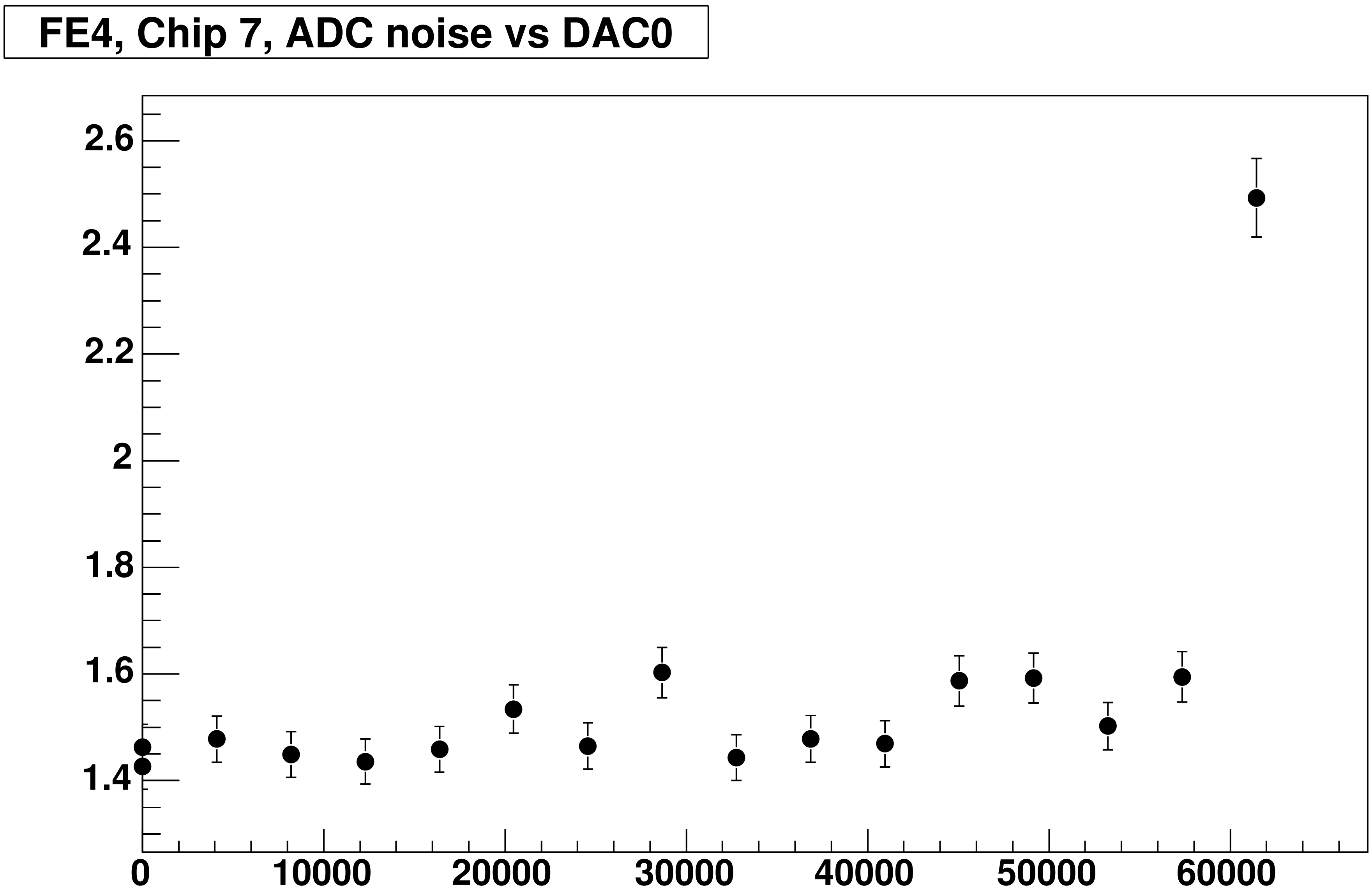
FE4, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



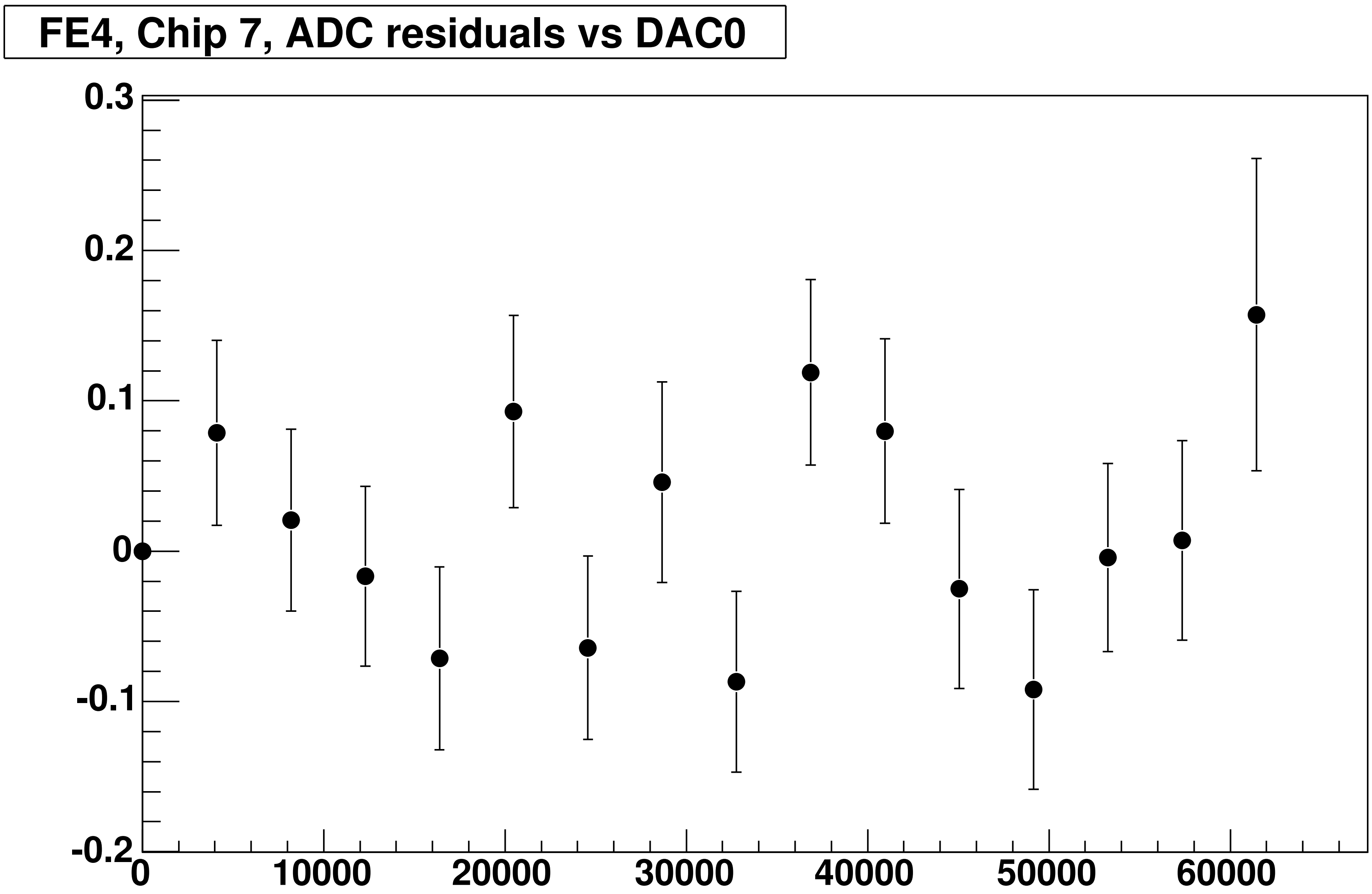
FE4, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
0
10000
20000
30000
40000
50000
60000

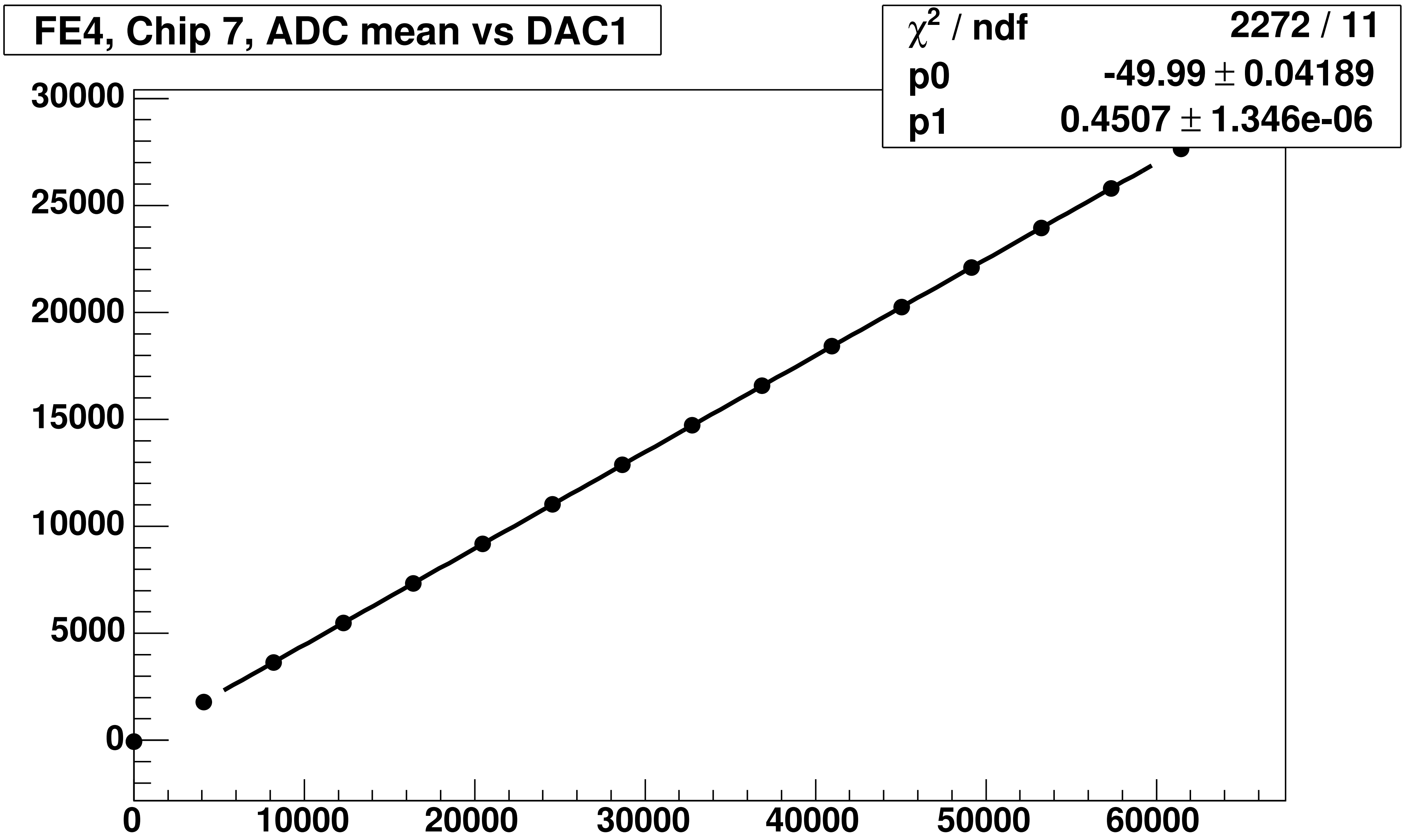


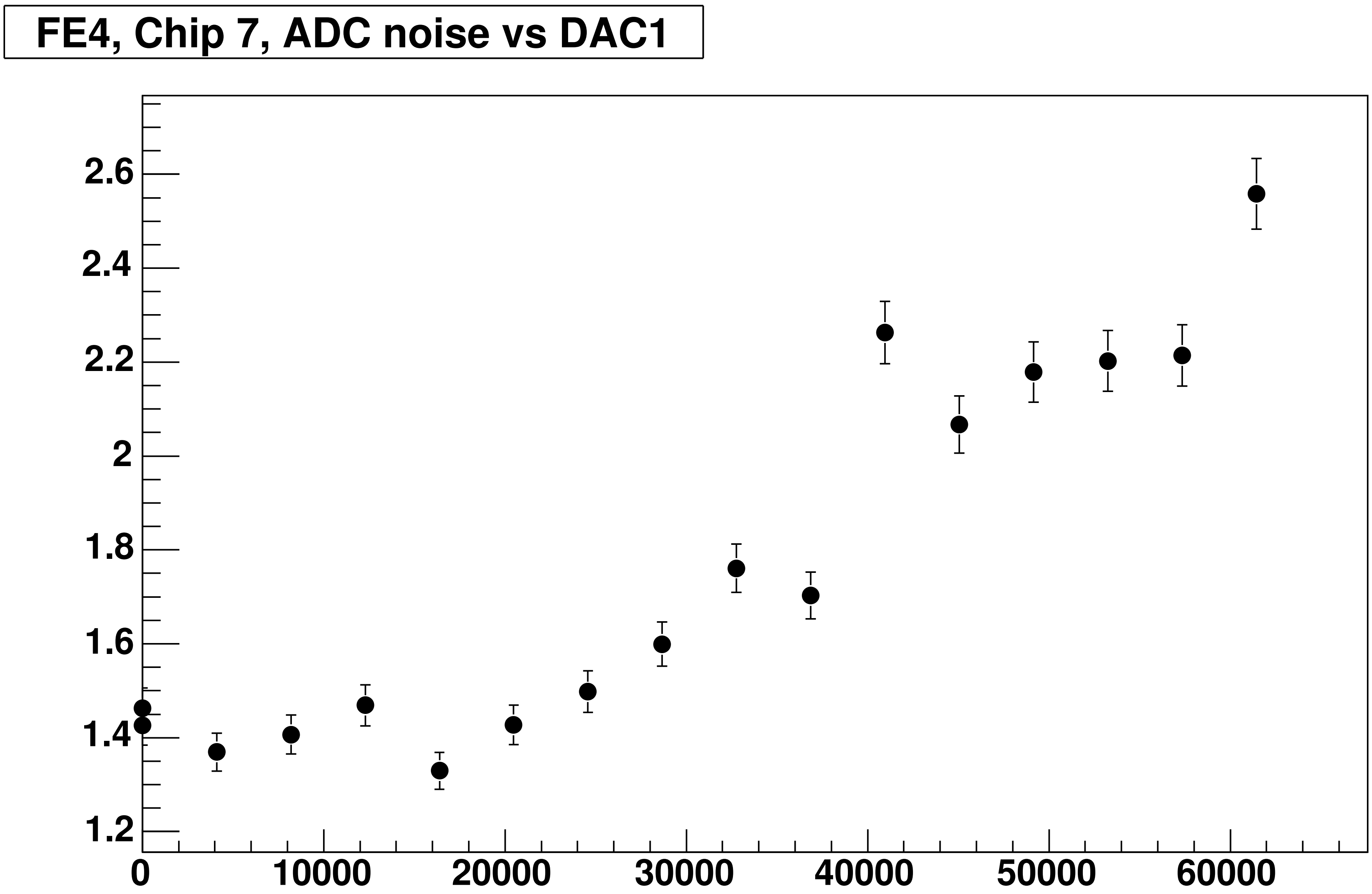
FE4, Chip 7, ADC mean vs DAC0
χ2 / ndf 14.86 / 11
p0 -52.47 ± 0.04035
p1 1.053e-06 ± 1.137e-06
-52.1
-52.2
-52.3
-52.4
-52.5
-52.6
0
10000
20000
30000
40000
50000
60000



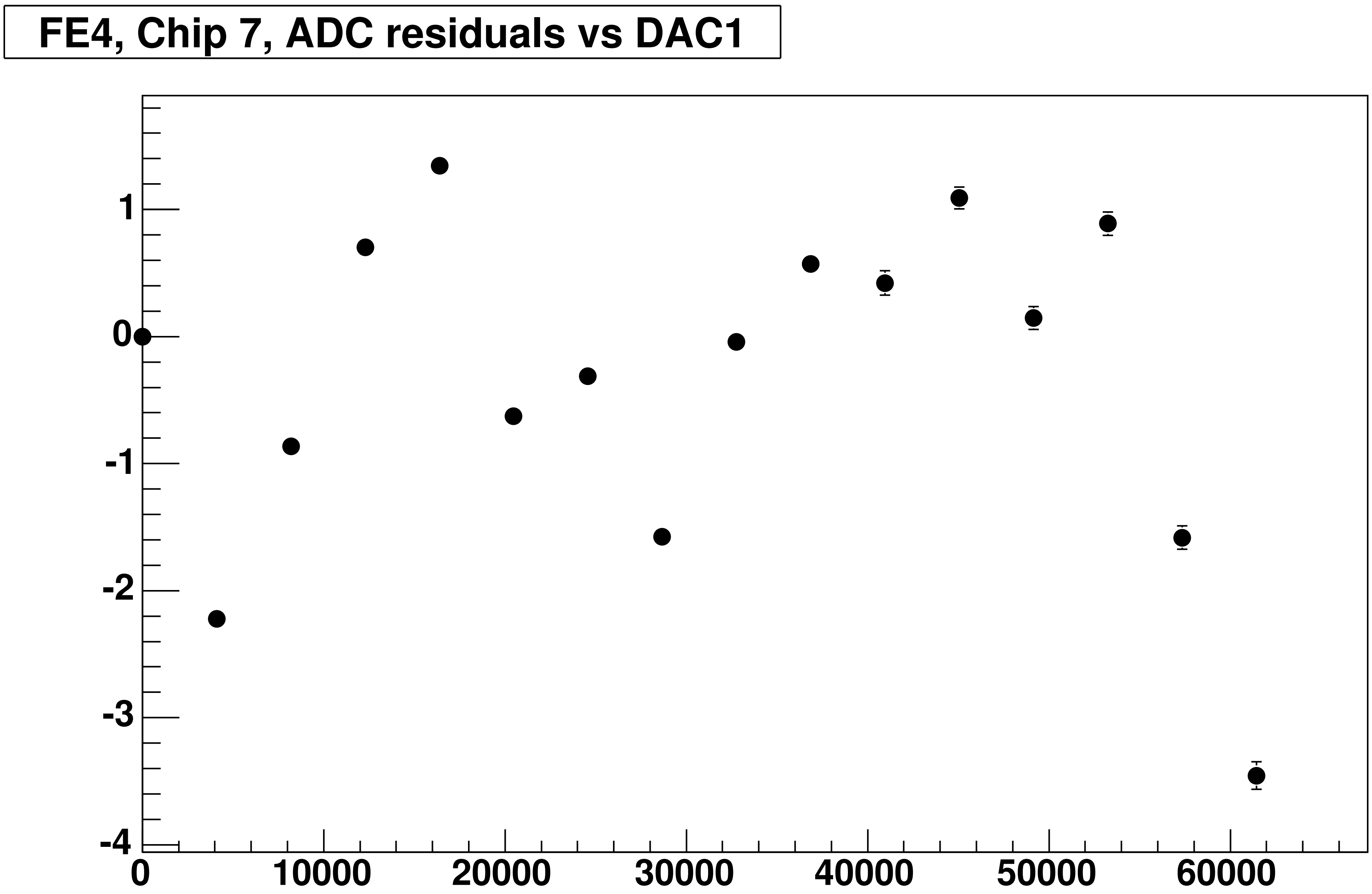
FE4, Chip 7, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

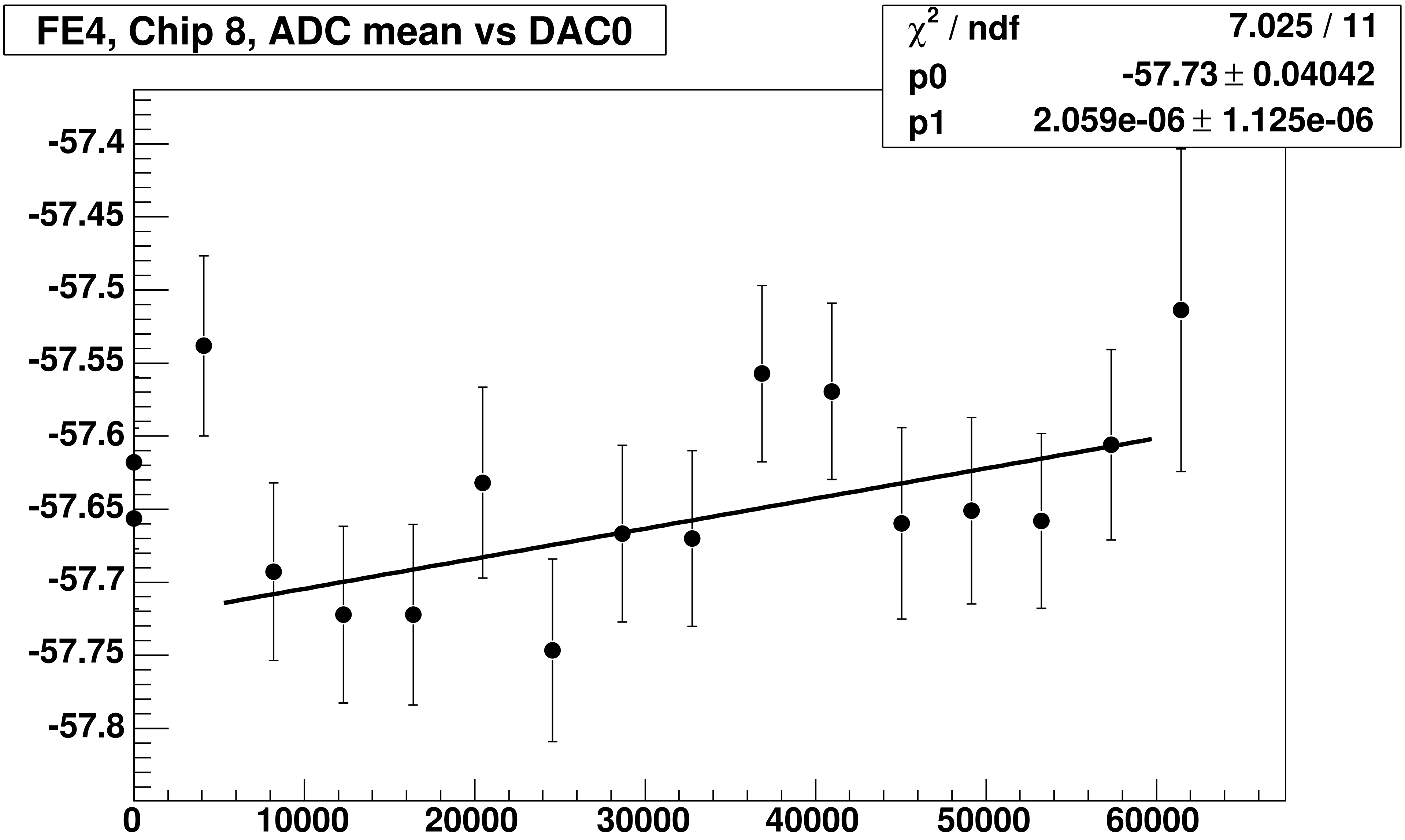

FE4, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE4, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2272 / 11
p0 -49.99 ± 0.04189
p1 0.4507 ± 1.346e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

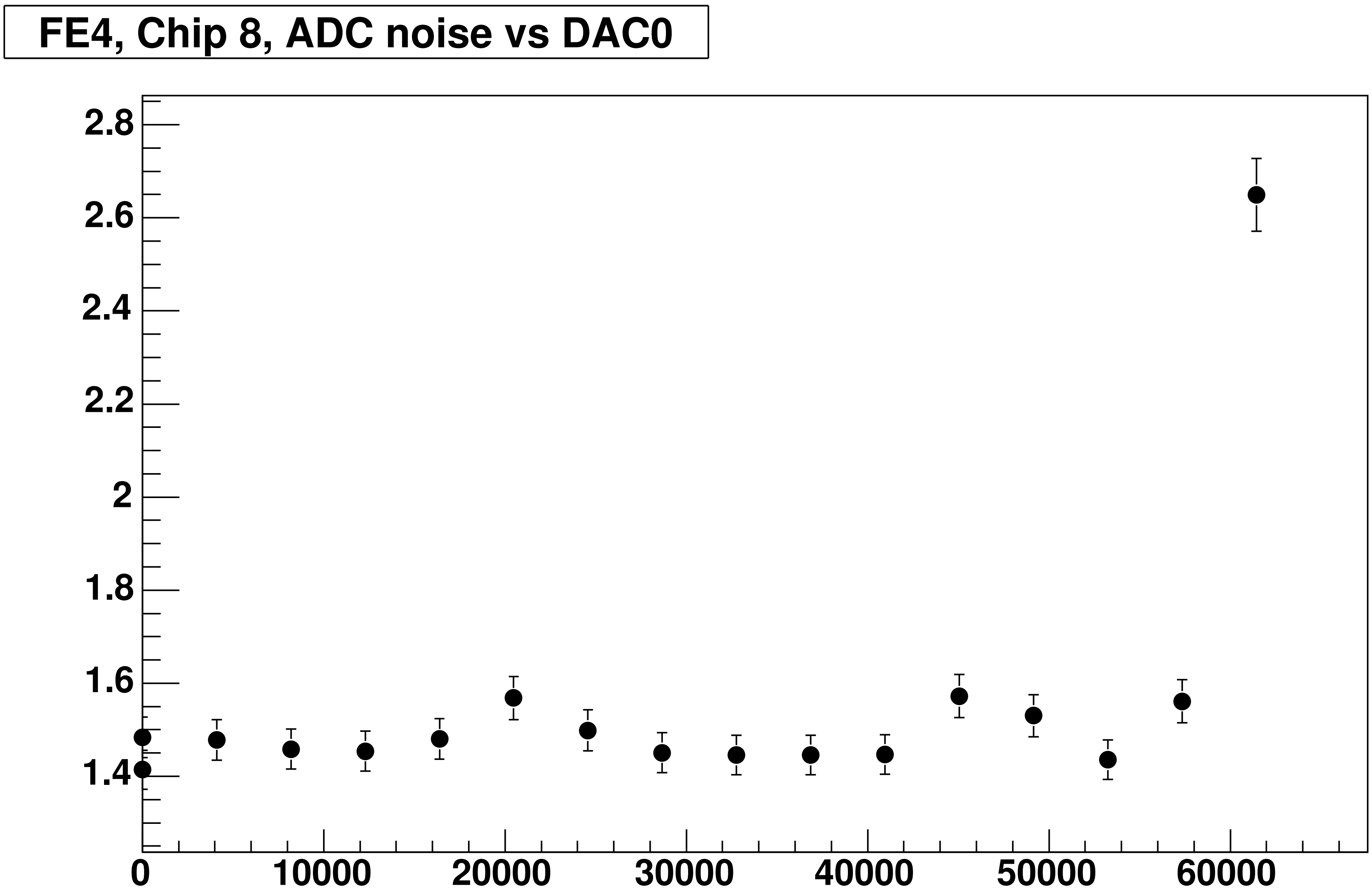


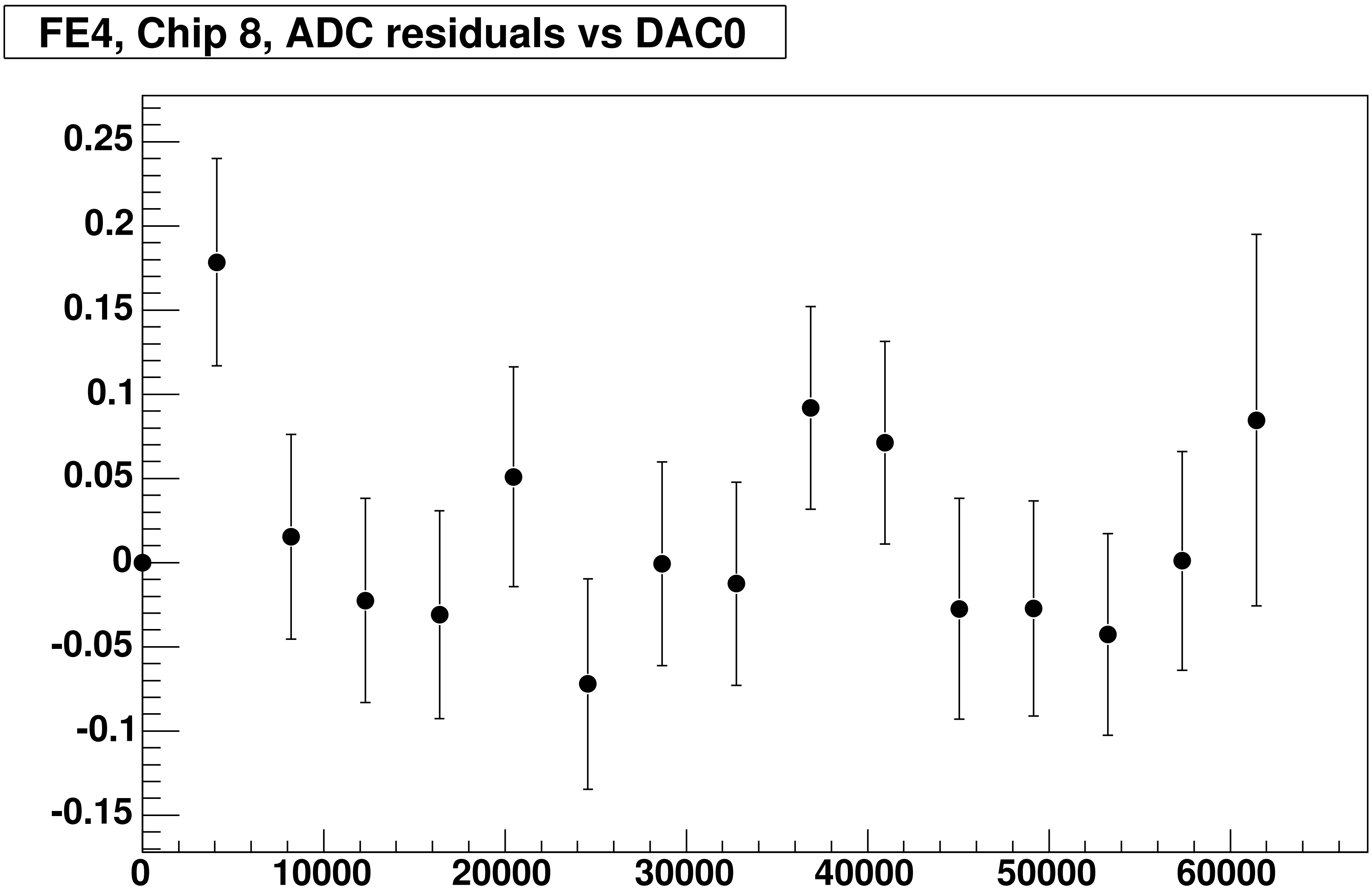
FE4, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

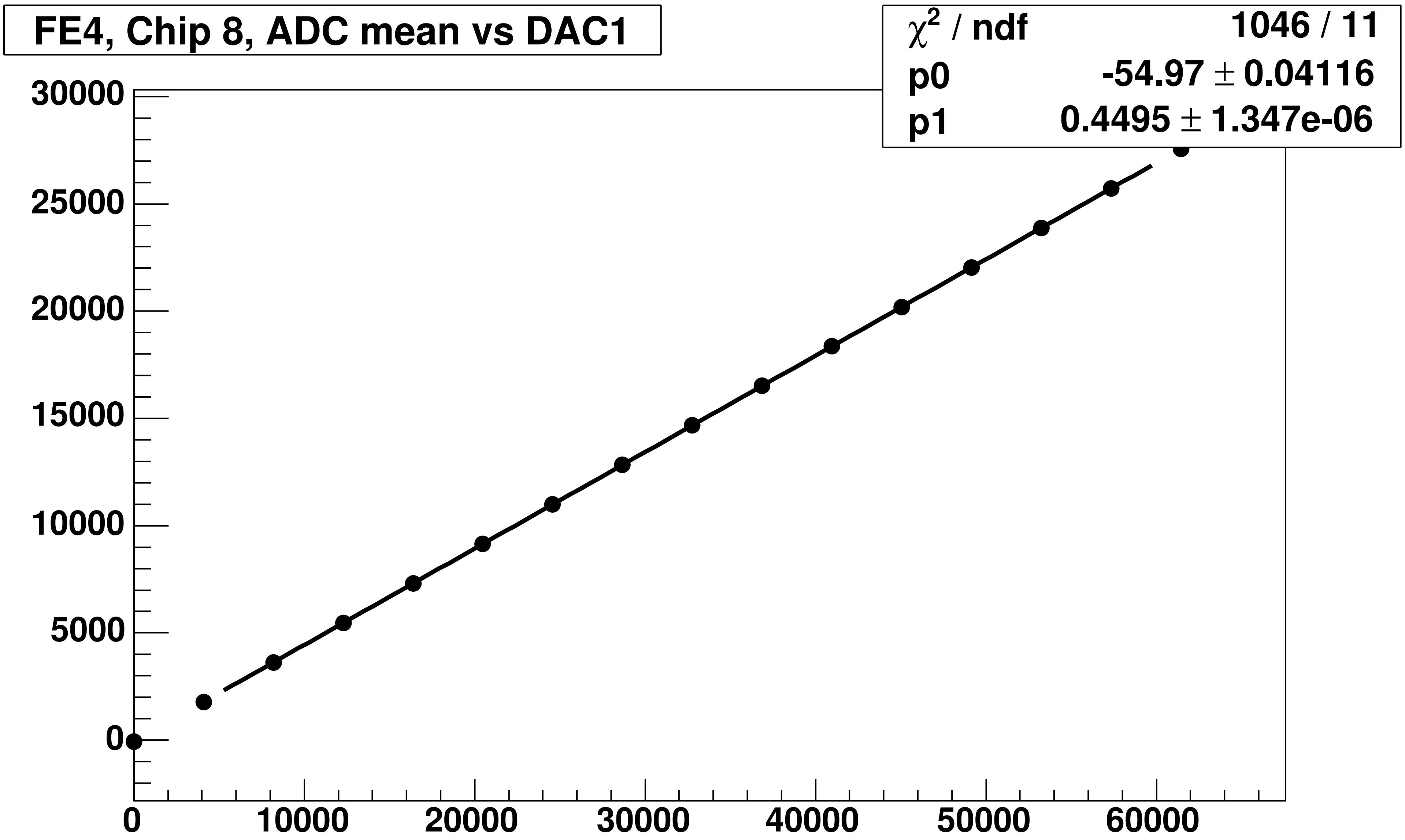

FE4, Chip 7, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

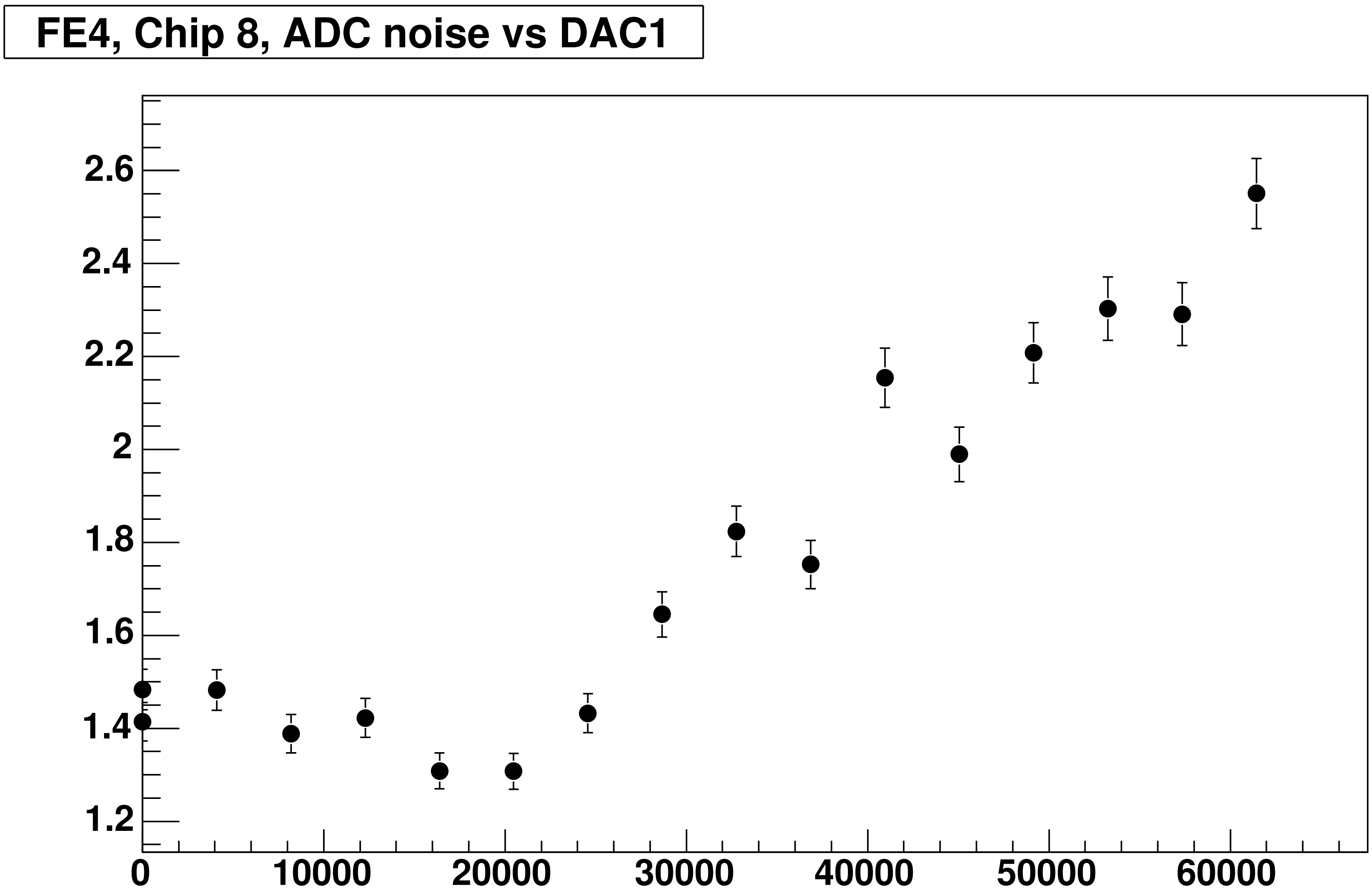


FE4, Chip 8, ADC mean vs DAC0
χ^2 / ndf 7.025 / 11
p0 -57.73 ± 0.04042
p1 2.059e-06 ± 1.125e-06
-57.4
-57.45
-57.5
-57.55
-57.6
-57.65
-57.7
-57.75
-57.8
0
10000
20000
30000
40000
50000
60000

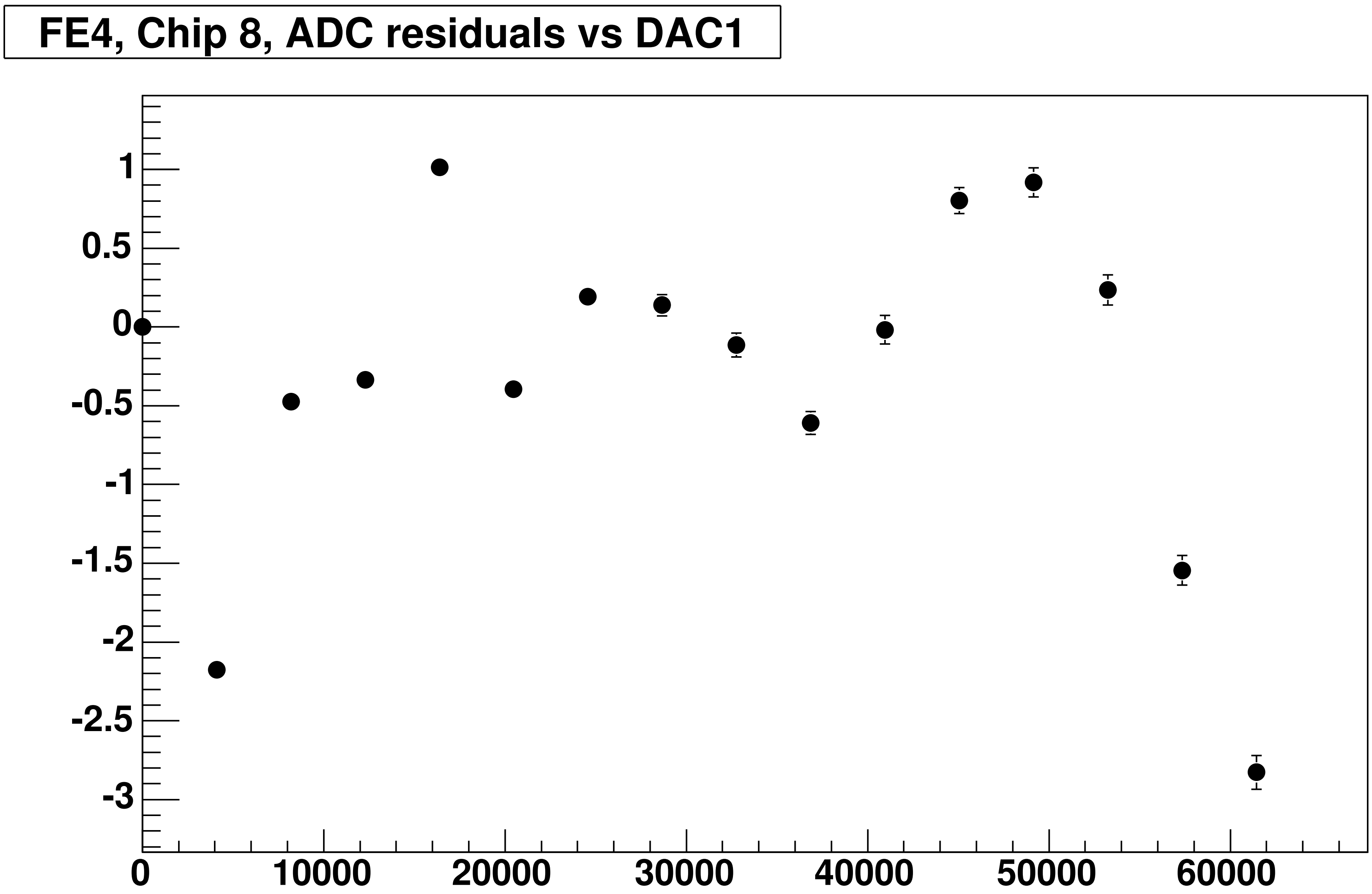

FE4, Chip 8, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

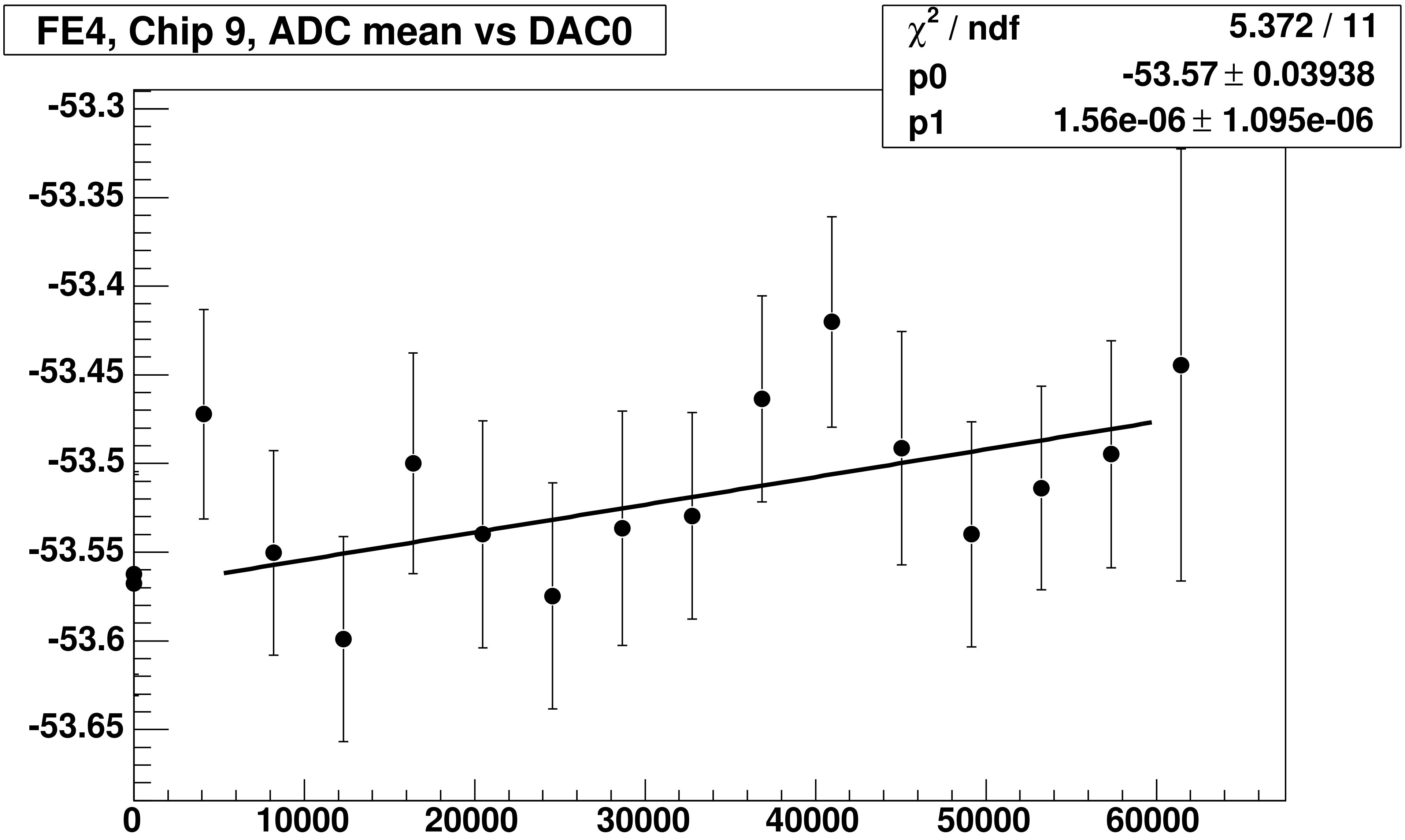

FE4, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1046 / 11
p0 -54.97 ± 0.04116
p1 0.4495 ± 1.347e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



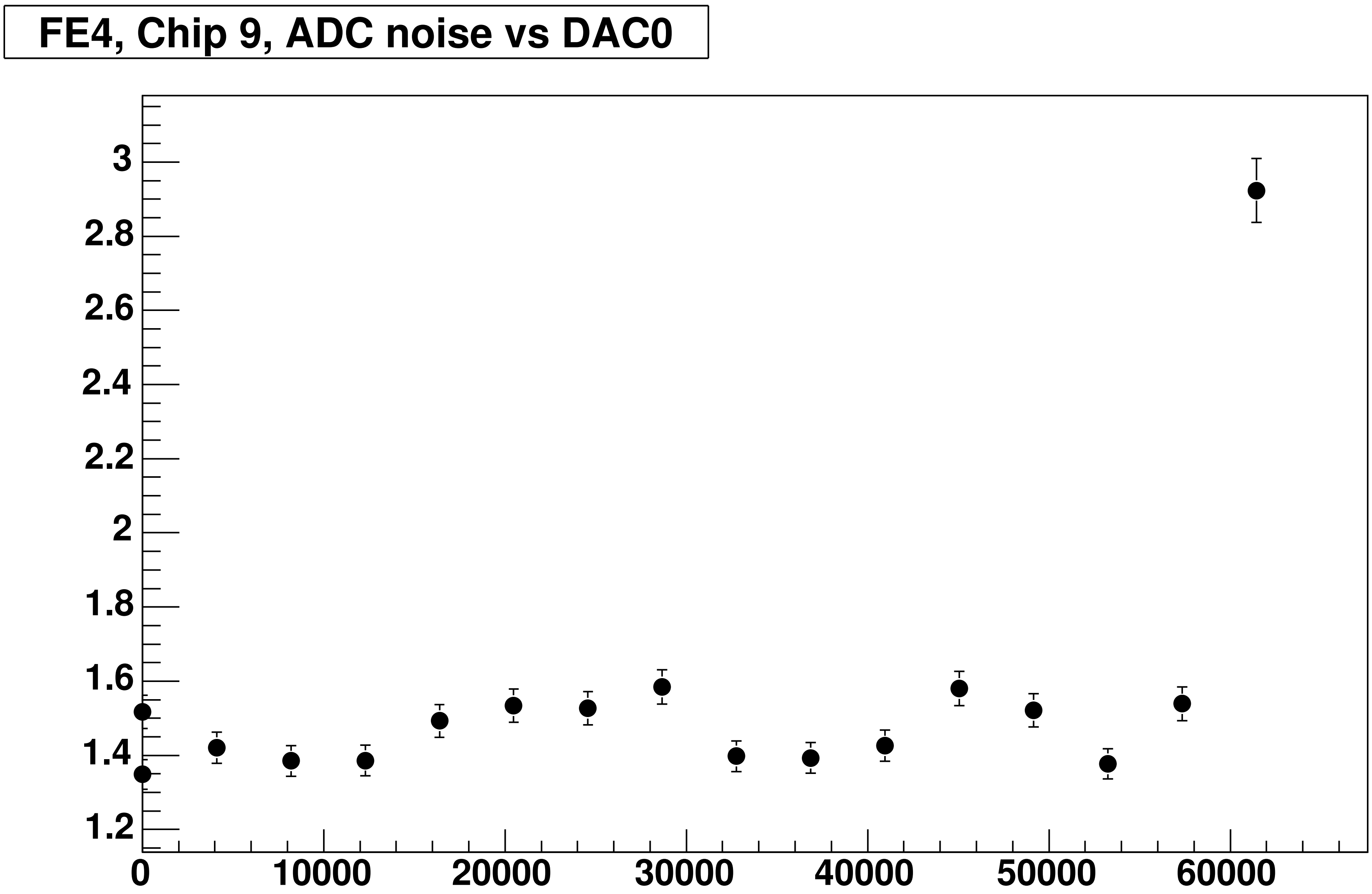
FE4, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

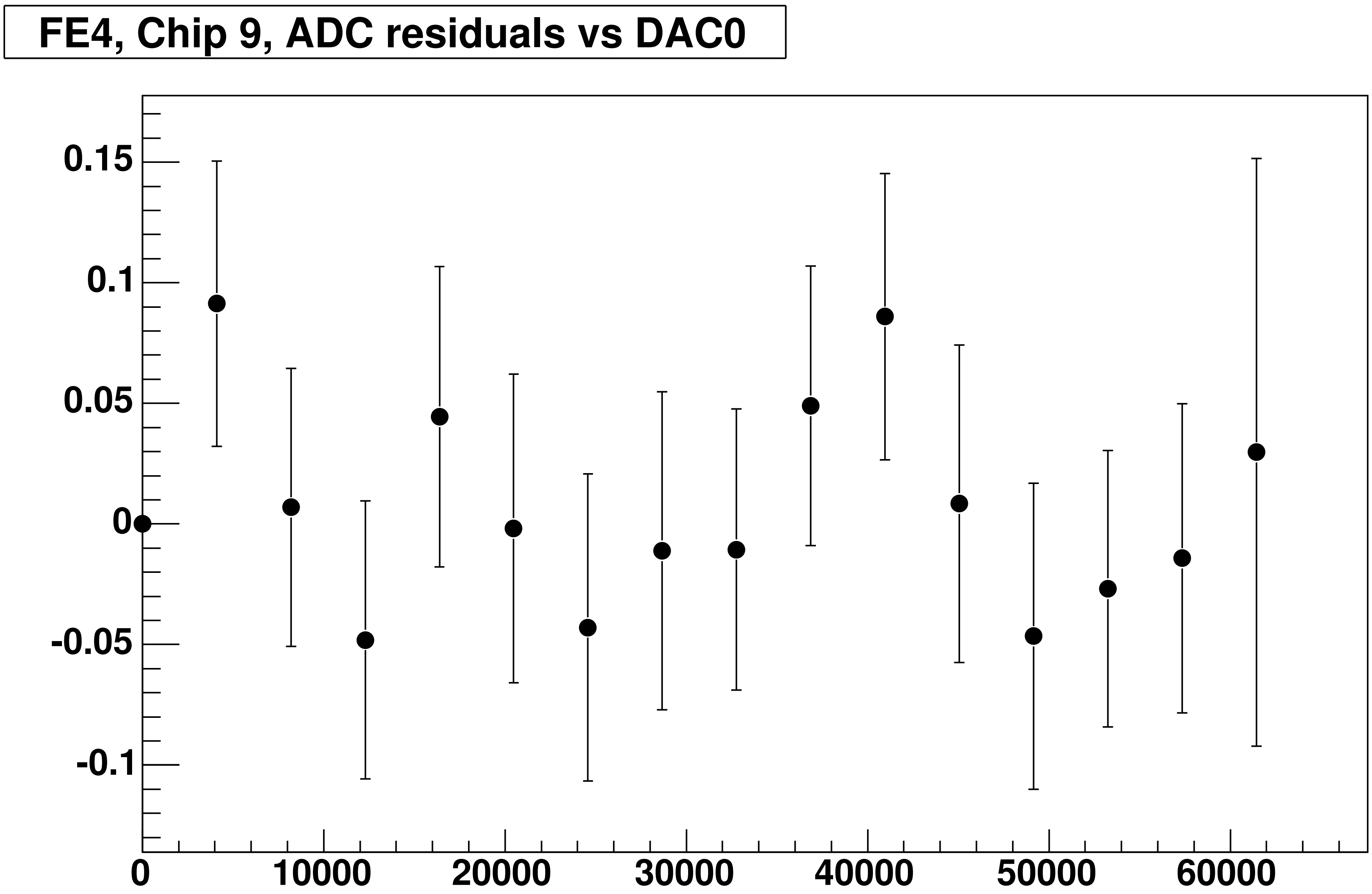


FE4, Chip 8, ADC residuals vs DAC1
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
0
10000
20000
30000
40000
50000
60000

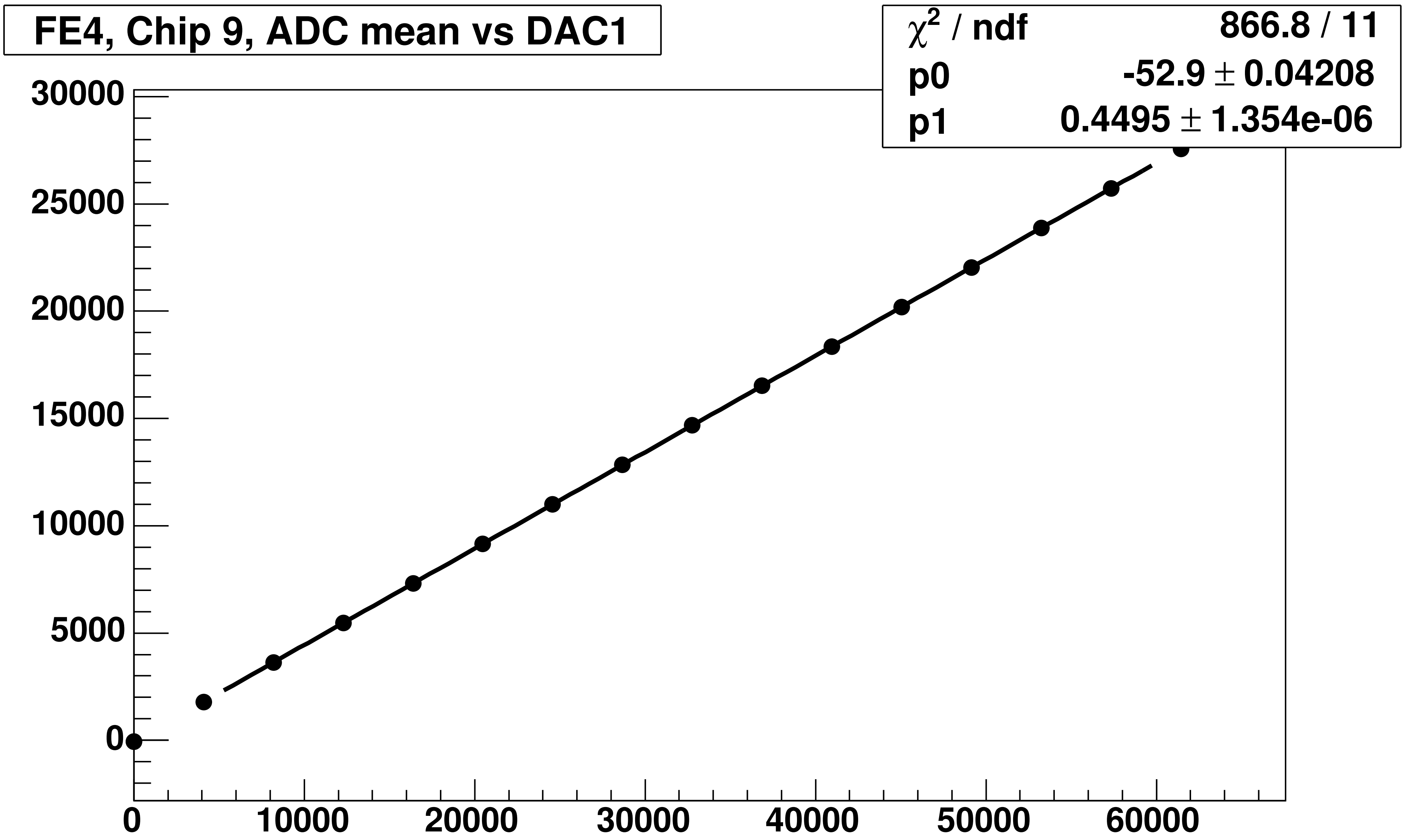


FE4, Chip 9, ADC mean vs DAC0
χ^2 / ndf 5.372 / 11
p0 -53.57 ± 0.03938
p1 1.56e-06 ± 1.095e-06
-53.3
-53.35
-53.4
-53.45
-53.5
-53.55
-53.6
-53.65
0
10000
20000
30000
40000
50000
60000

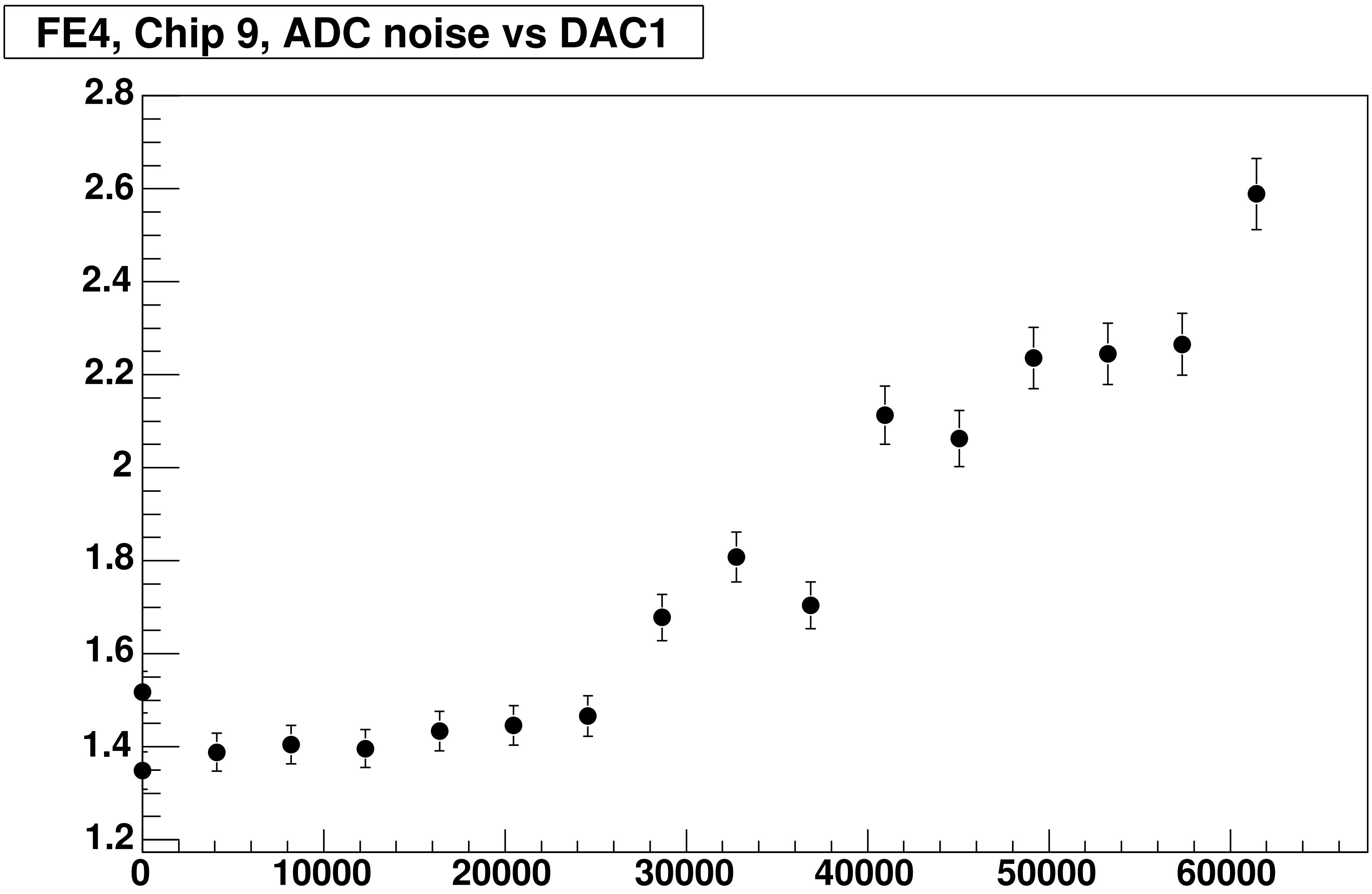

FE4, Chip 9, ADC noise vs DAC0
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

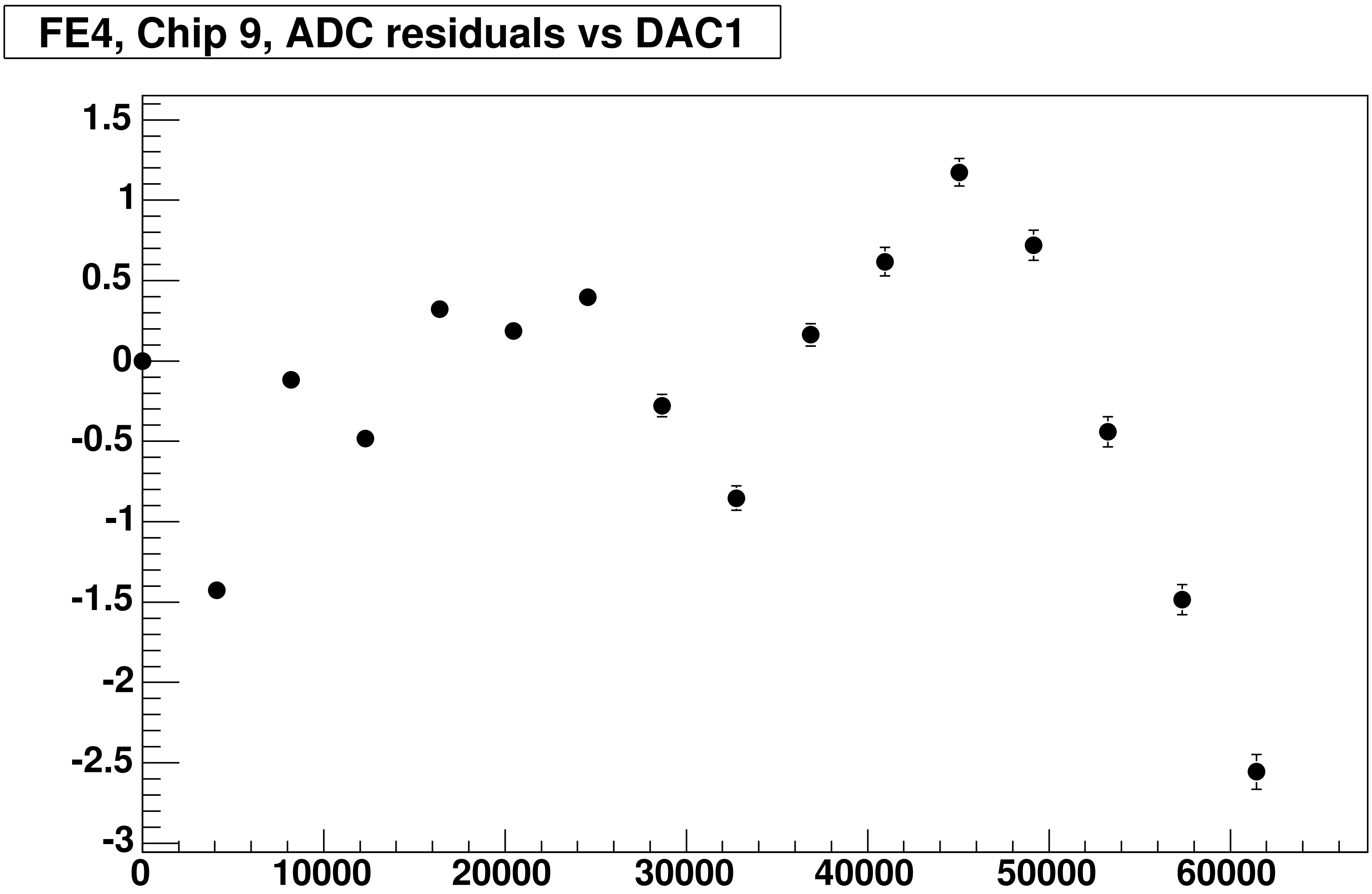


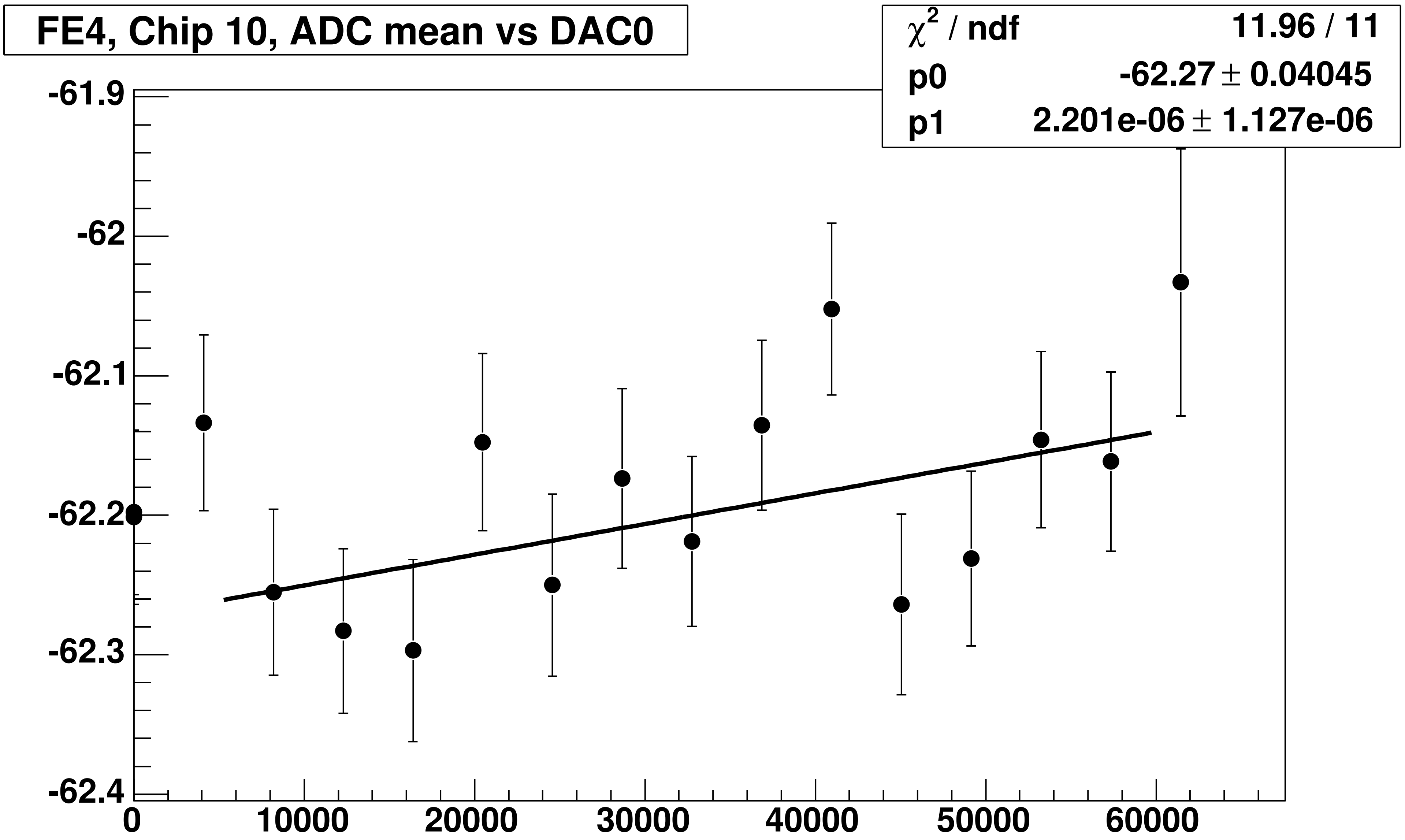
FE4, Chip 9, ADC residuals vs DAC0
0.15
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000



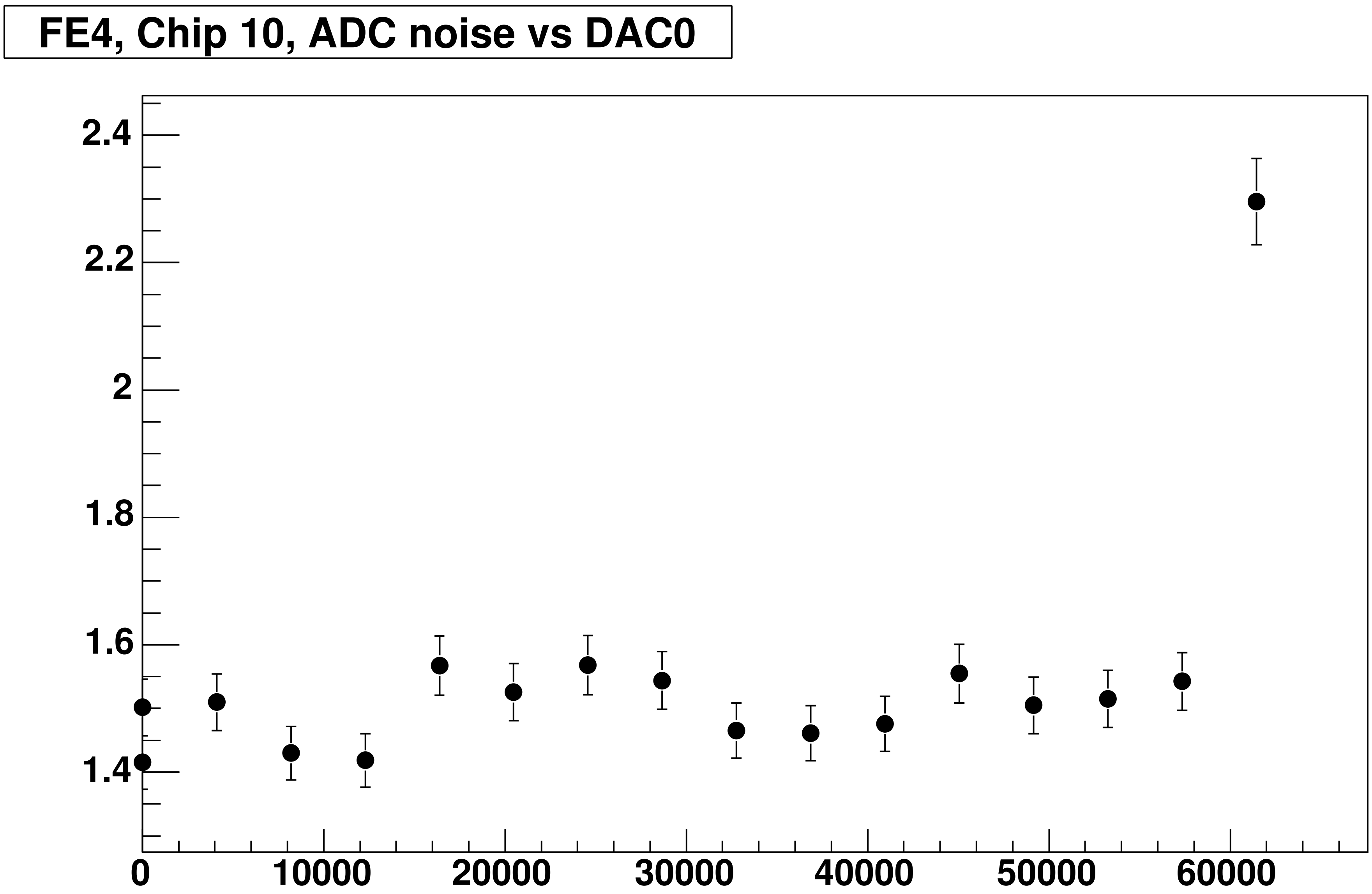
FE4, Chip 9, ADC mean vs DAC1
χ^2 / ndf 866.8 / 11
p0 -52.9 ± 0.04208
p1 0.4495 ± 1.354e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE4, 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

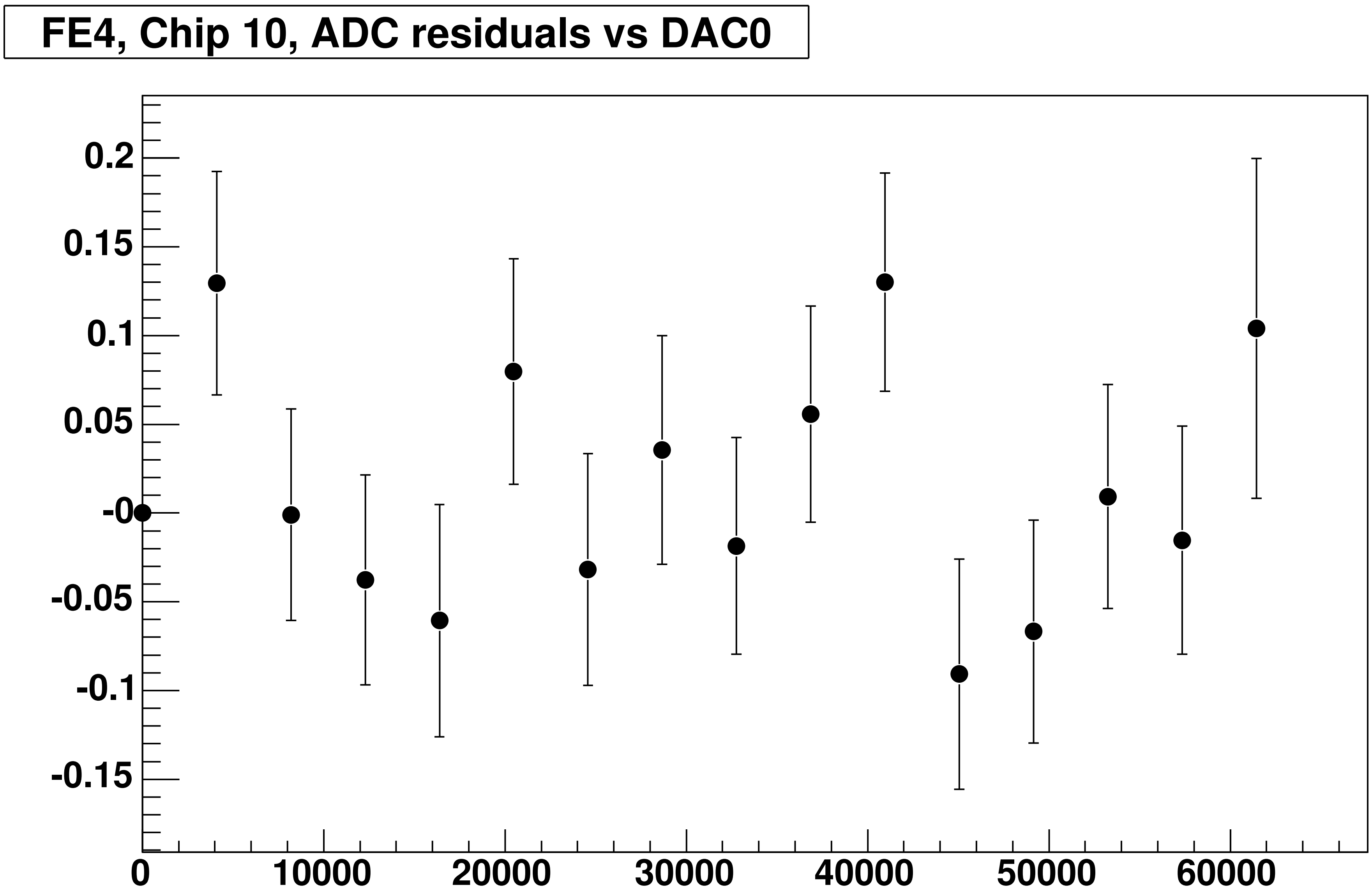

FE4, Chip 9, ADC residuals vs DAC1
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
0
10000
20000
30000
40000
50000
60000



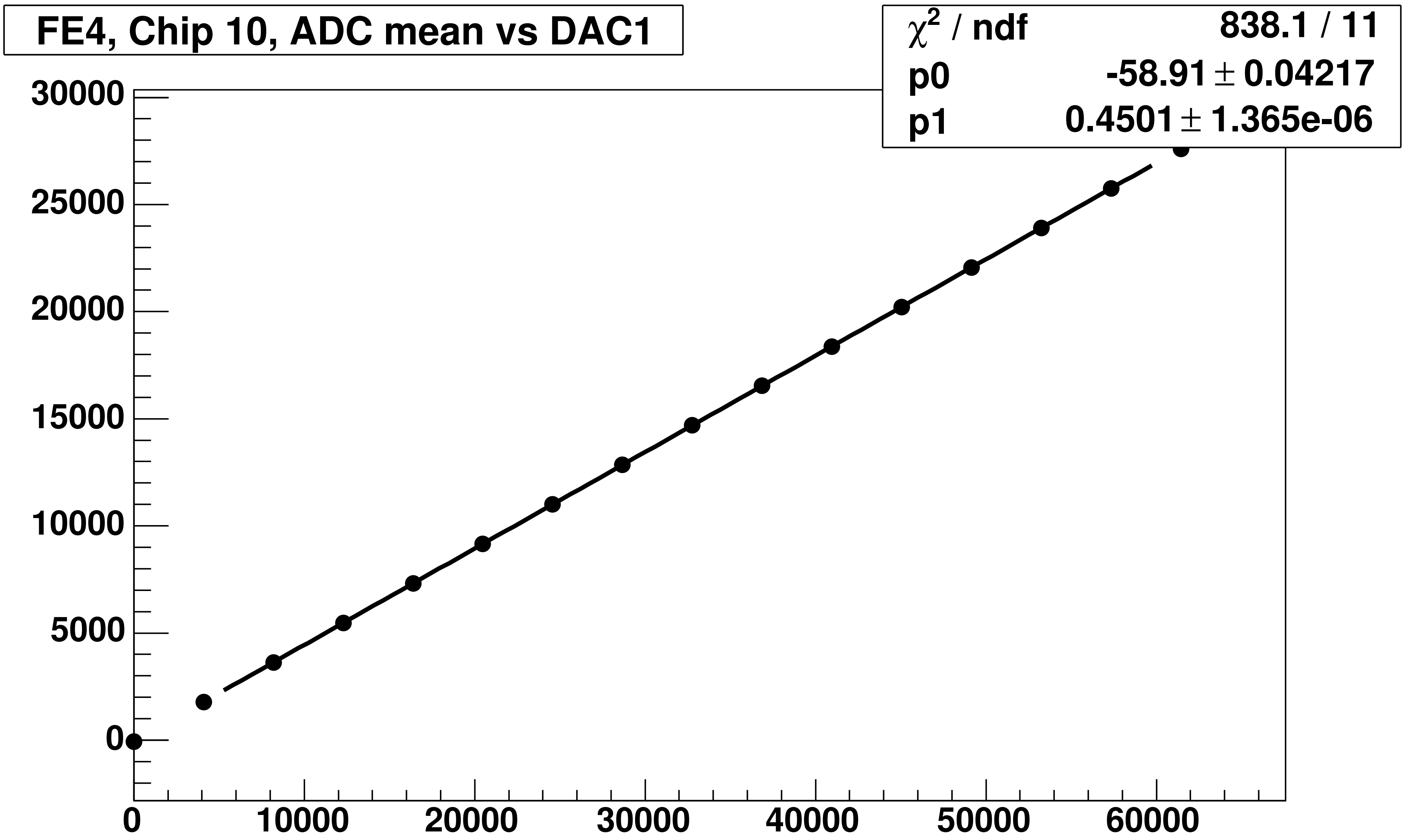
FE4, Chip 10, ADC mean vs DAC0
χ2 / ndf 11.96 / 11
p0 -62.27 ± 0.04045
p1 2.201e-06 ± 1.127e-06
-61.9
-62
-62.1
-62.2
-62.3
-62.4
0
10000
20000
30000
40000
50000
60000



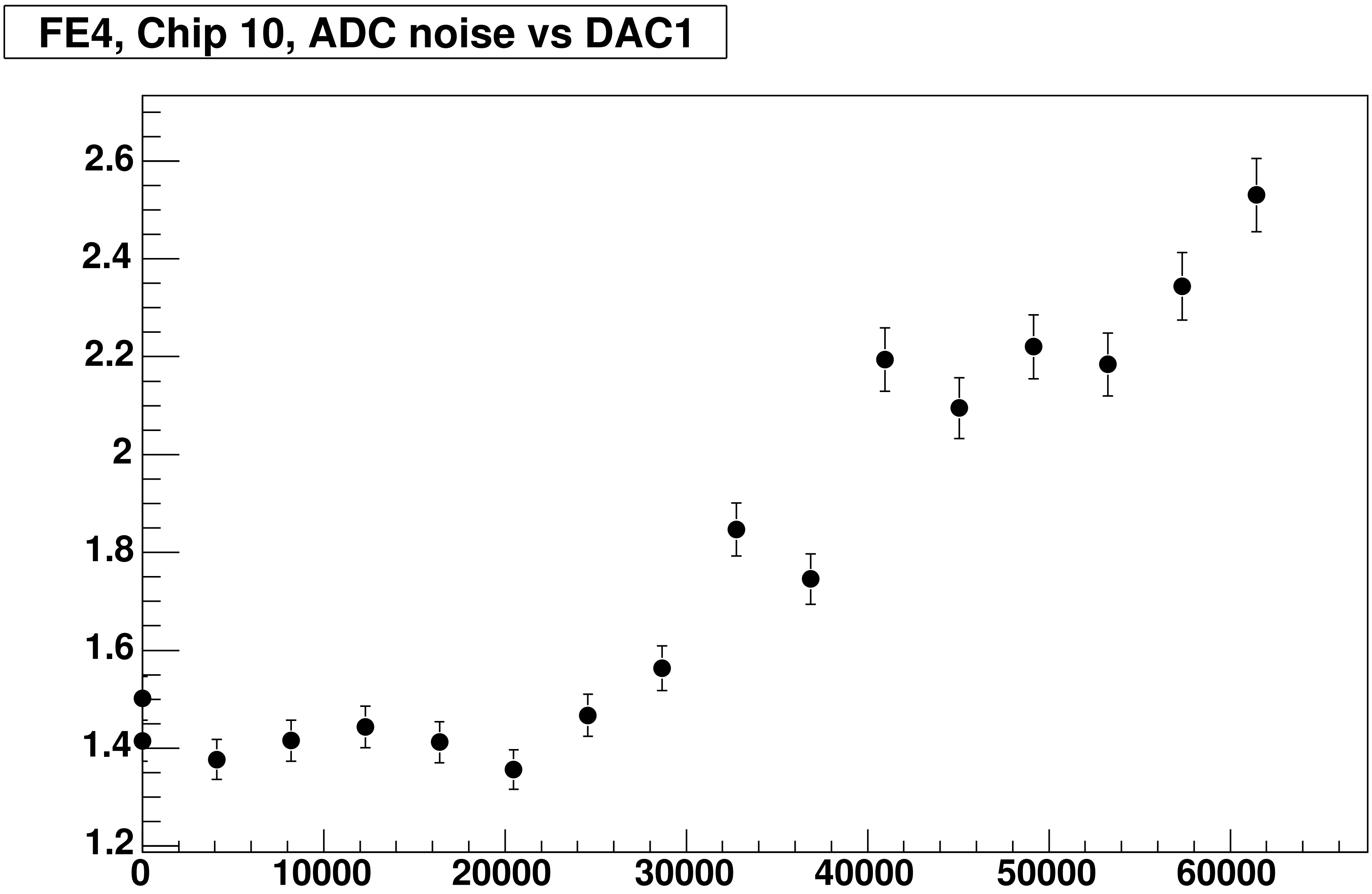
FE4, Chip 10, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

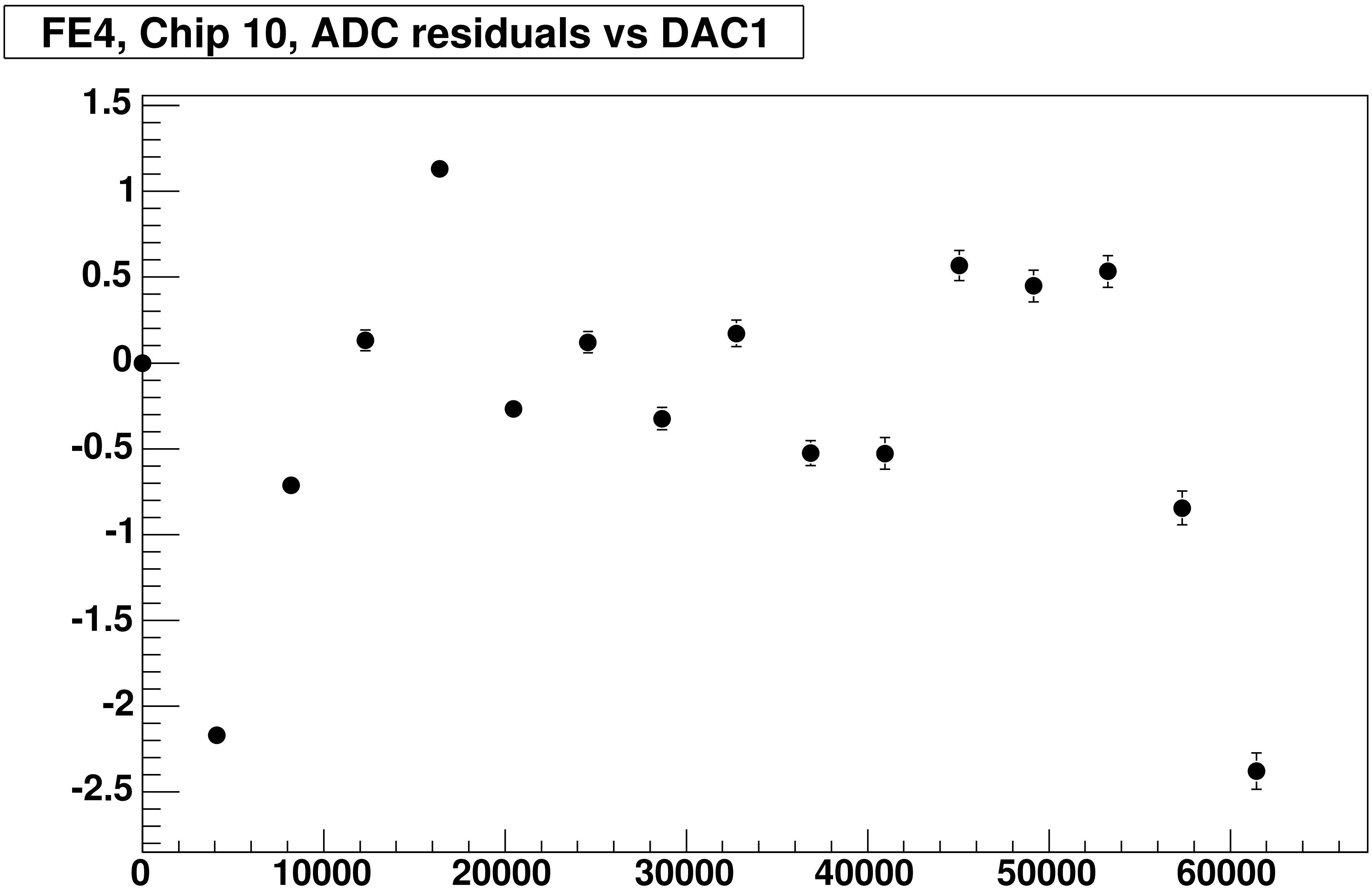


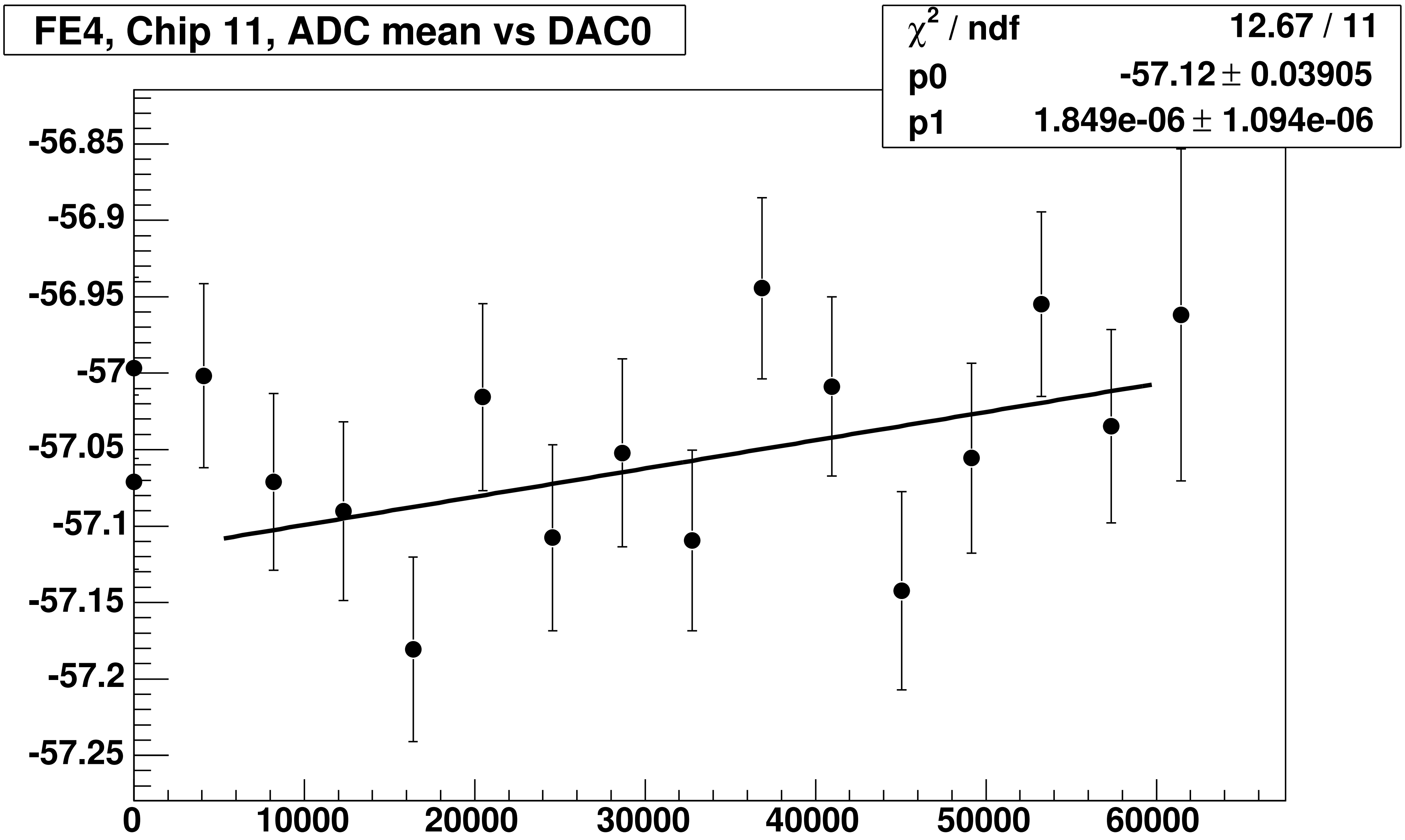
FE4, Chip 10, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



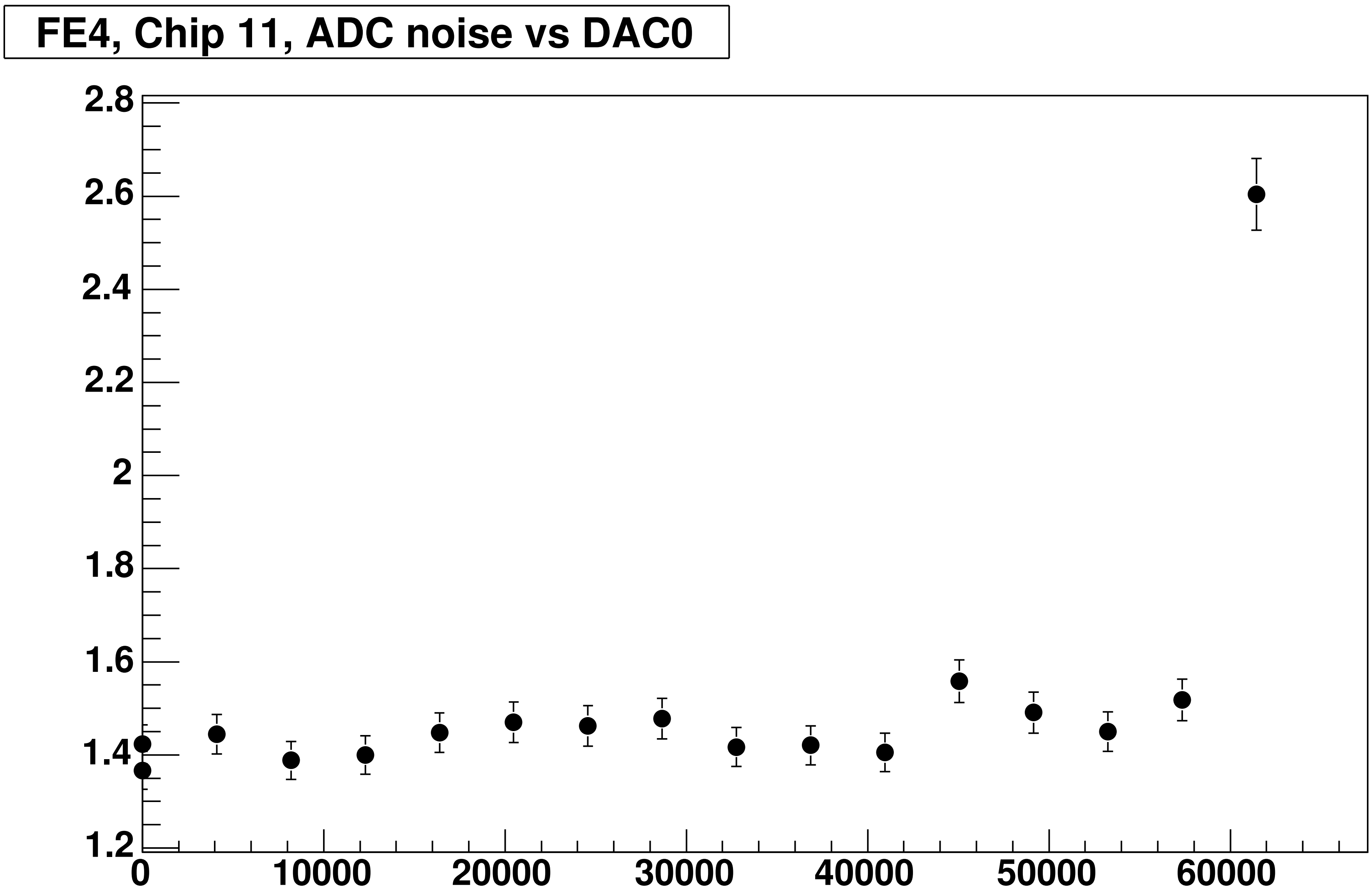
FE4, Chip 10, ADC mean vs DAC1
χ² / ndf 838.1 / 11
p0 -58.91 ± 0.04217
p1 0.4501 ± 1.365e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

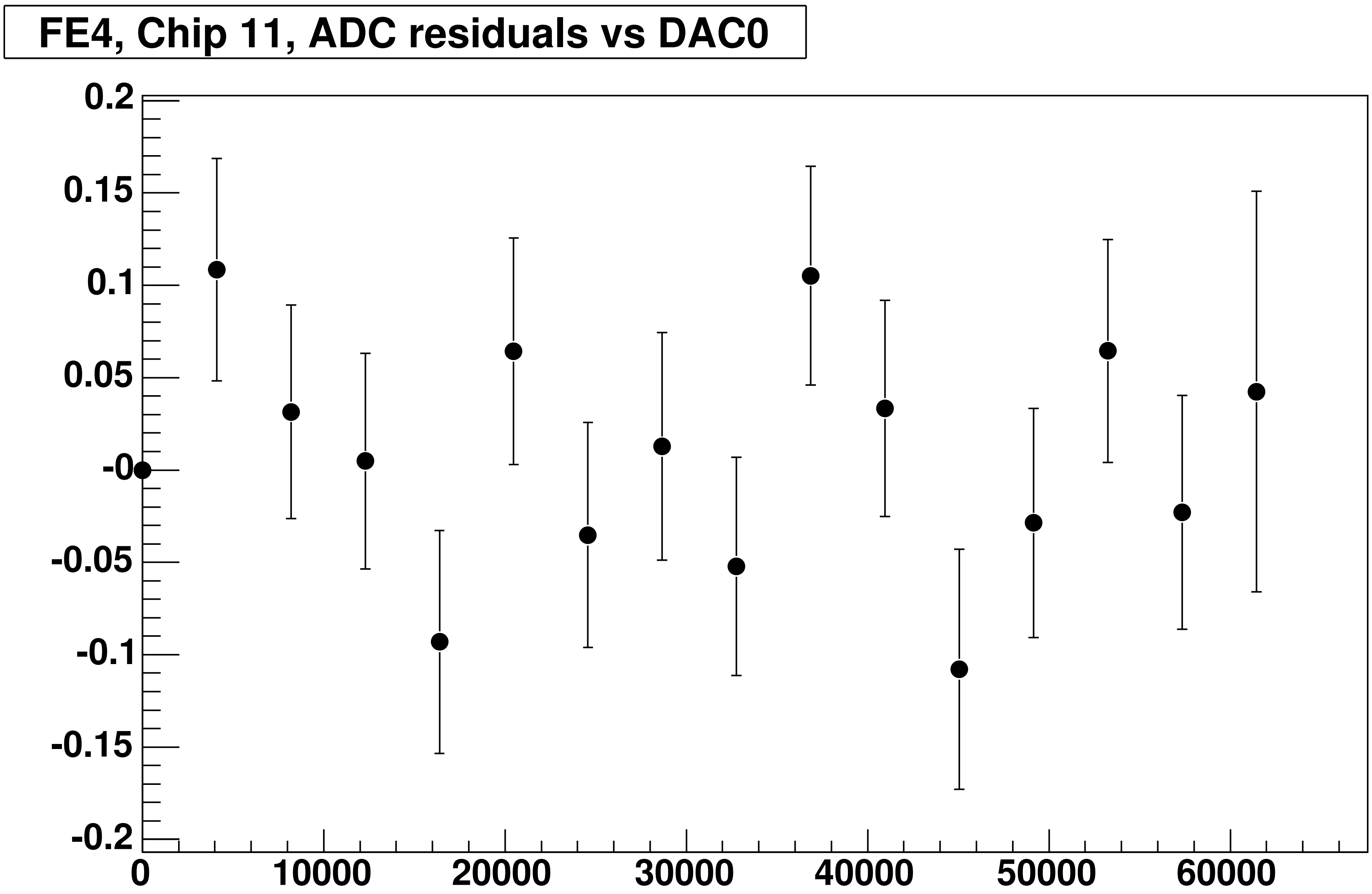

FE4, Chip 10, ADC noise vs DAC1
1.2
1.4
1.6
1.8
2
2.2
2.4
2.6
0
10000
20000
30000
40000
50000
60000


FE4, Chip 10, ADC residuals vs DAC1
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
0
10000
20000
30000
40000
50000
60000

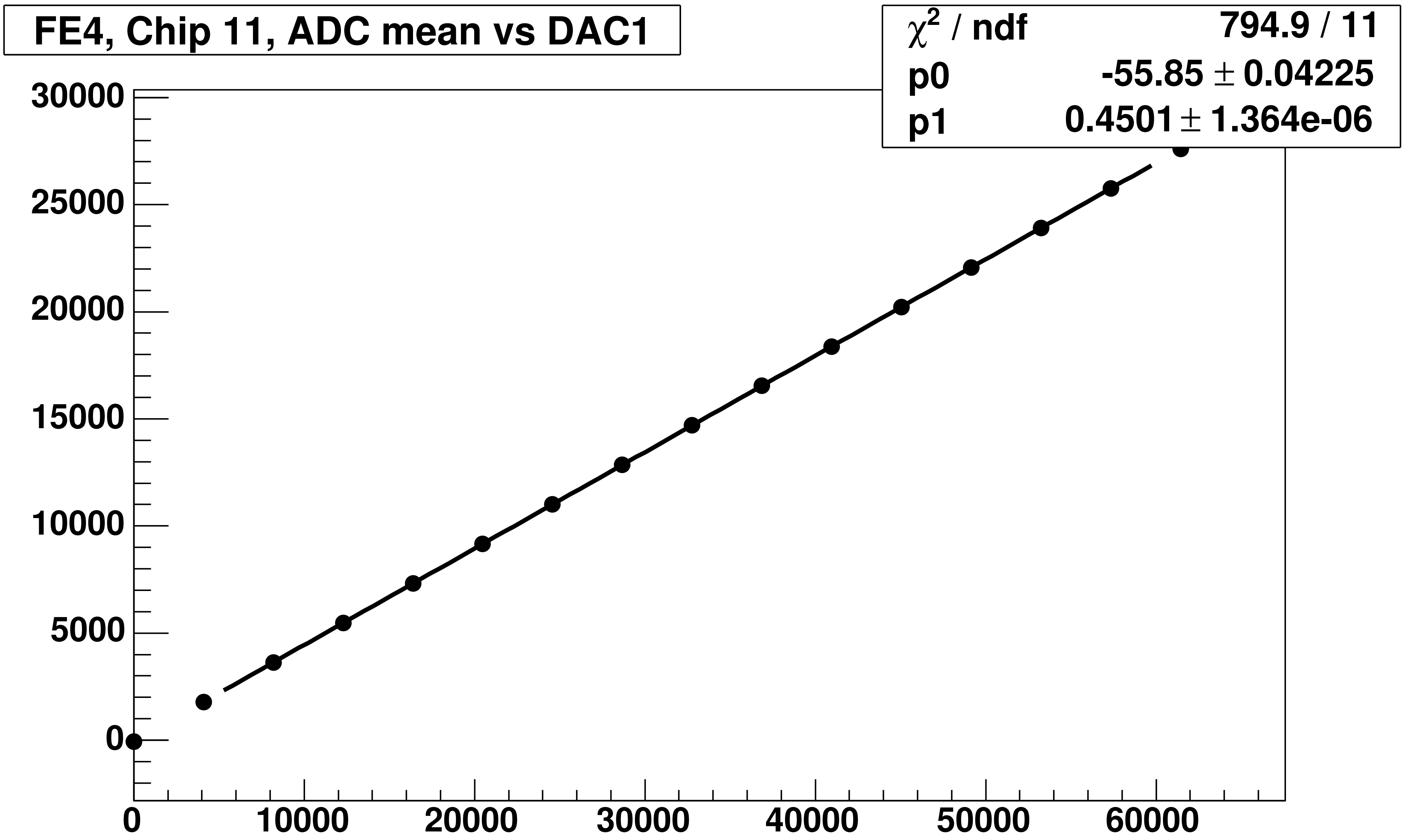


FE4, Chip 11, ADC mean vs DAC0
χ^2 / ndf 12.67 / 11
p0 -57.12 ± 0.03905
p1 1.849e-06 ± 1.094e-06
-56.85
-56.9
-56.95
-57
-57.05
-57.1
-57.15
-57.2
-57.25
0
10000
20000
30000
40000
50000
60000

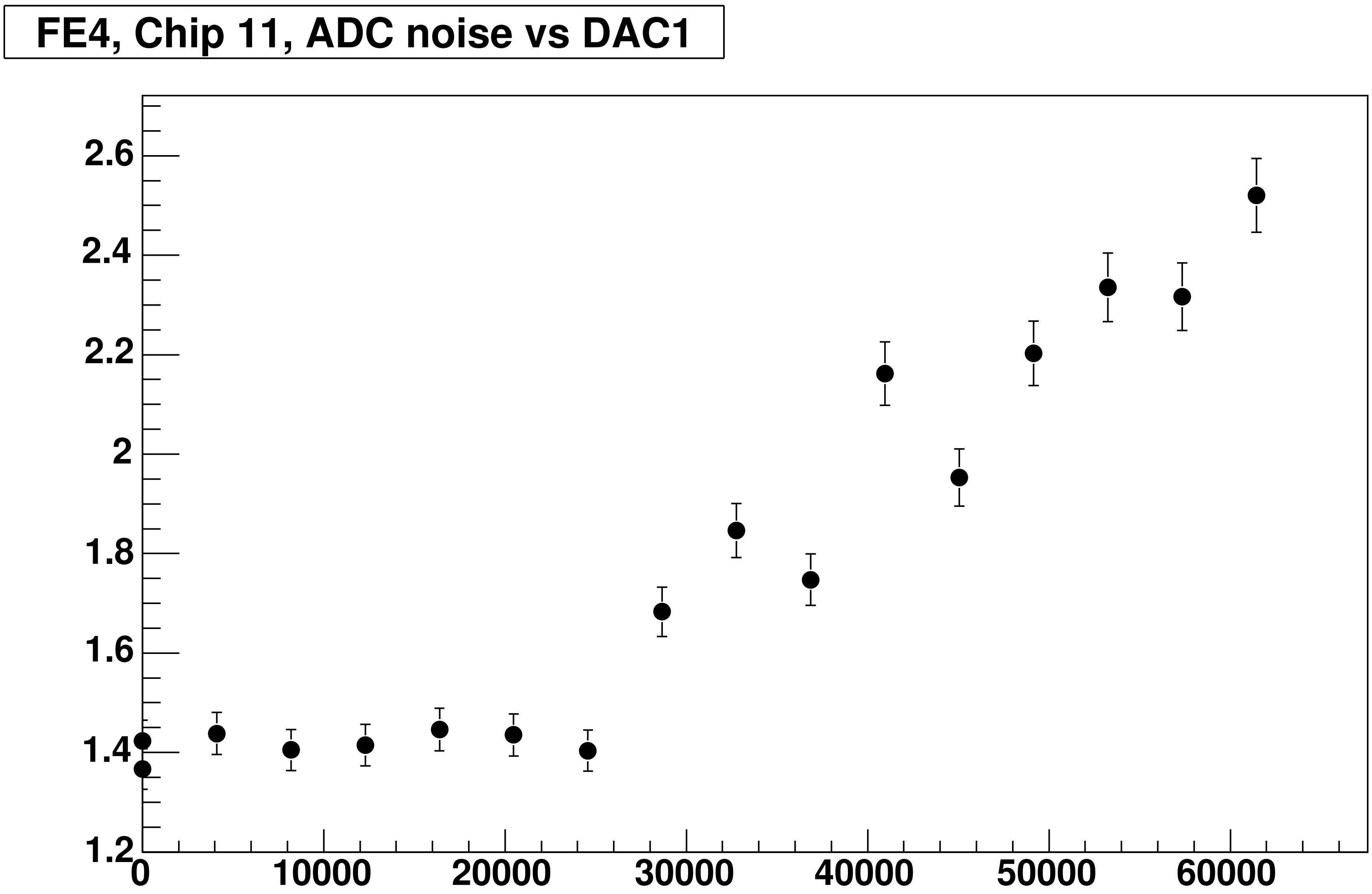

FE4, Chip 11, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

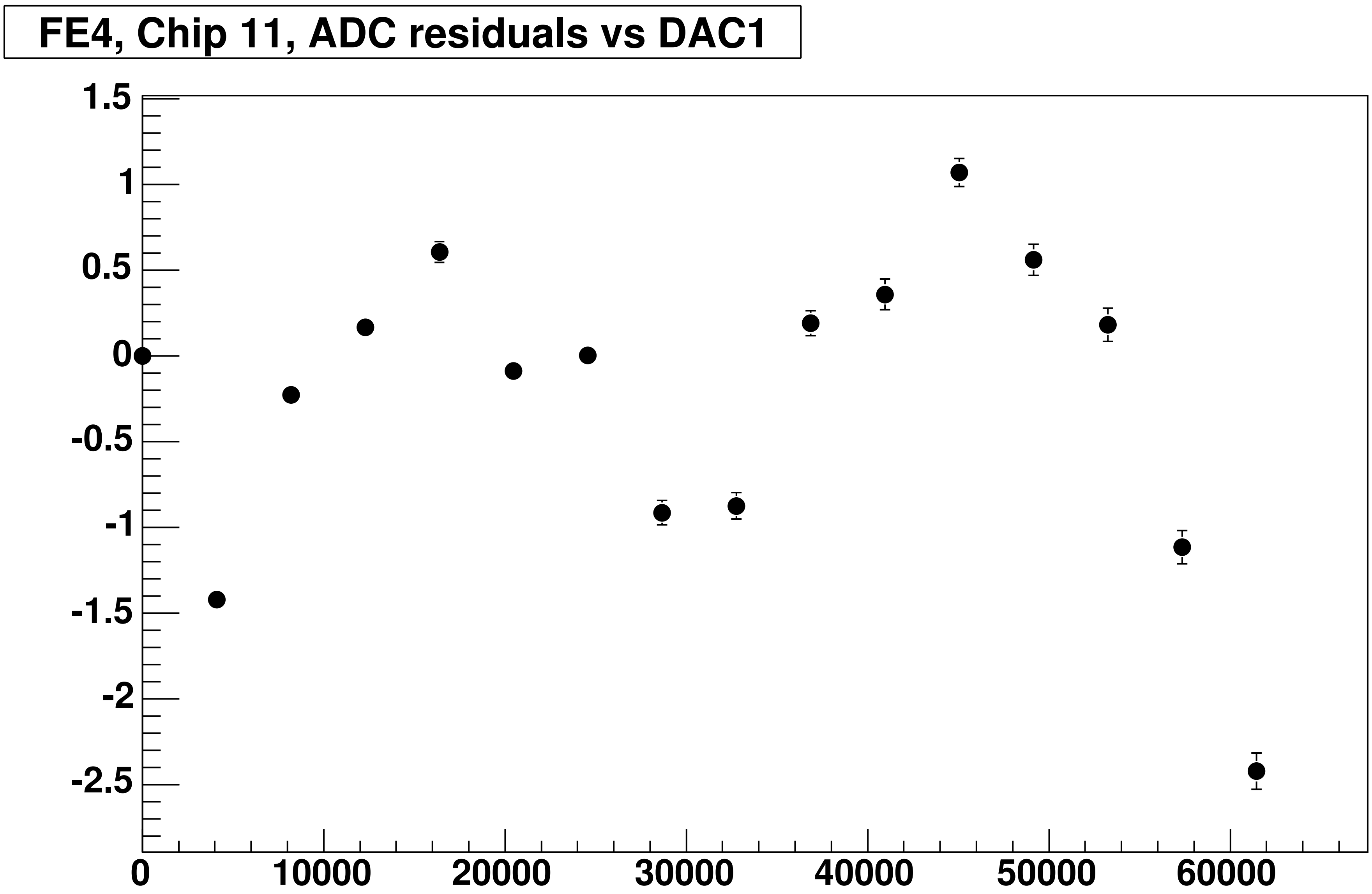


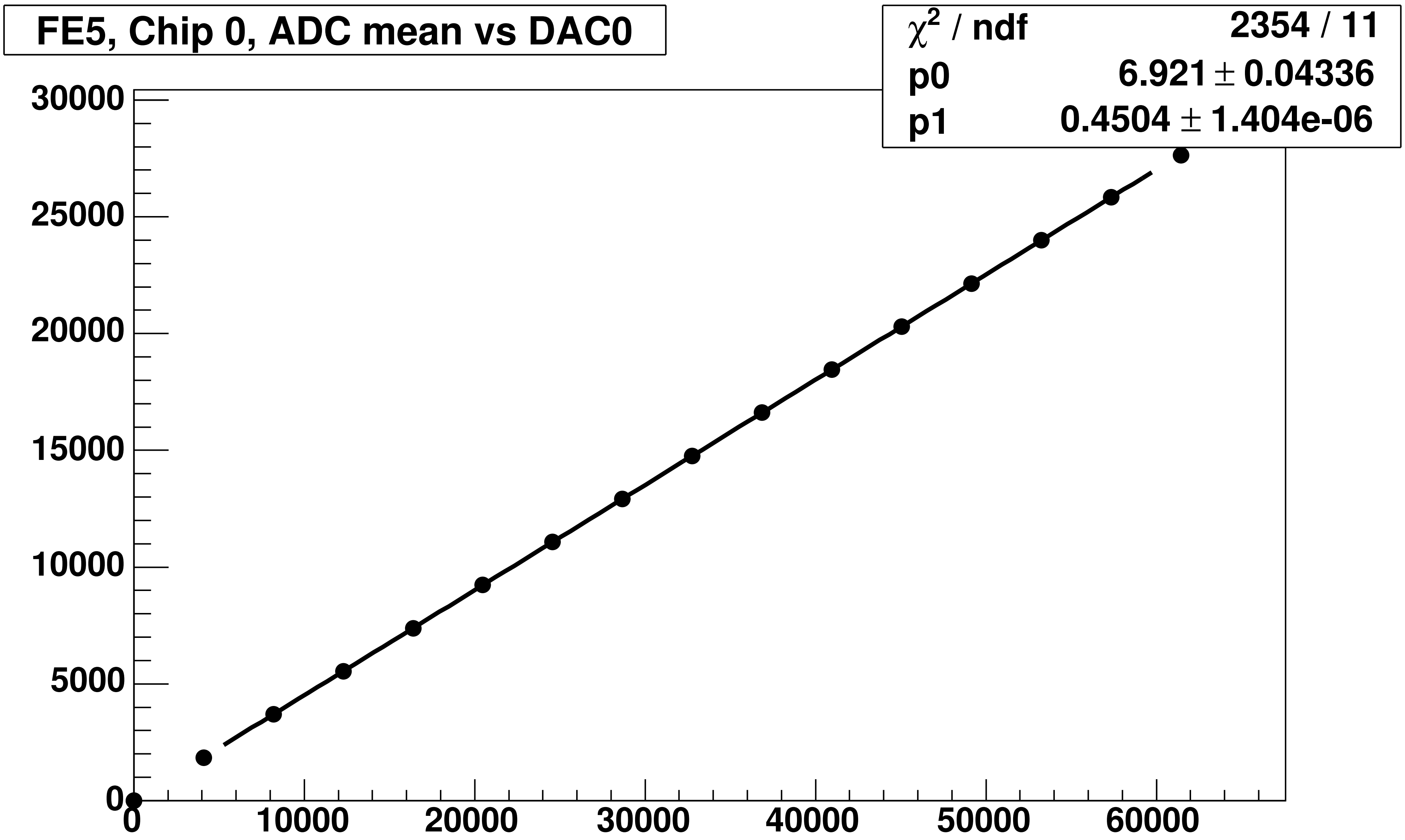
FE4, Chip 11, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

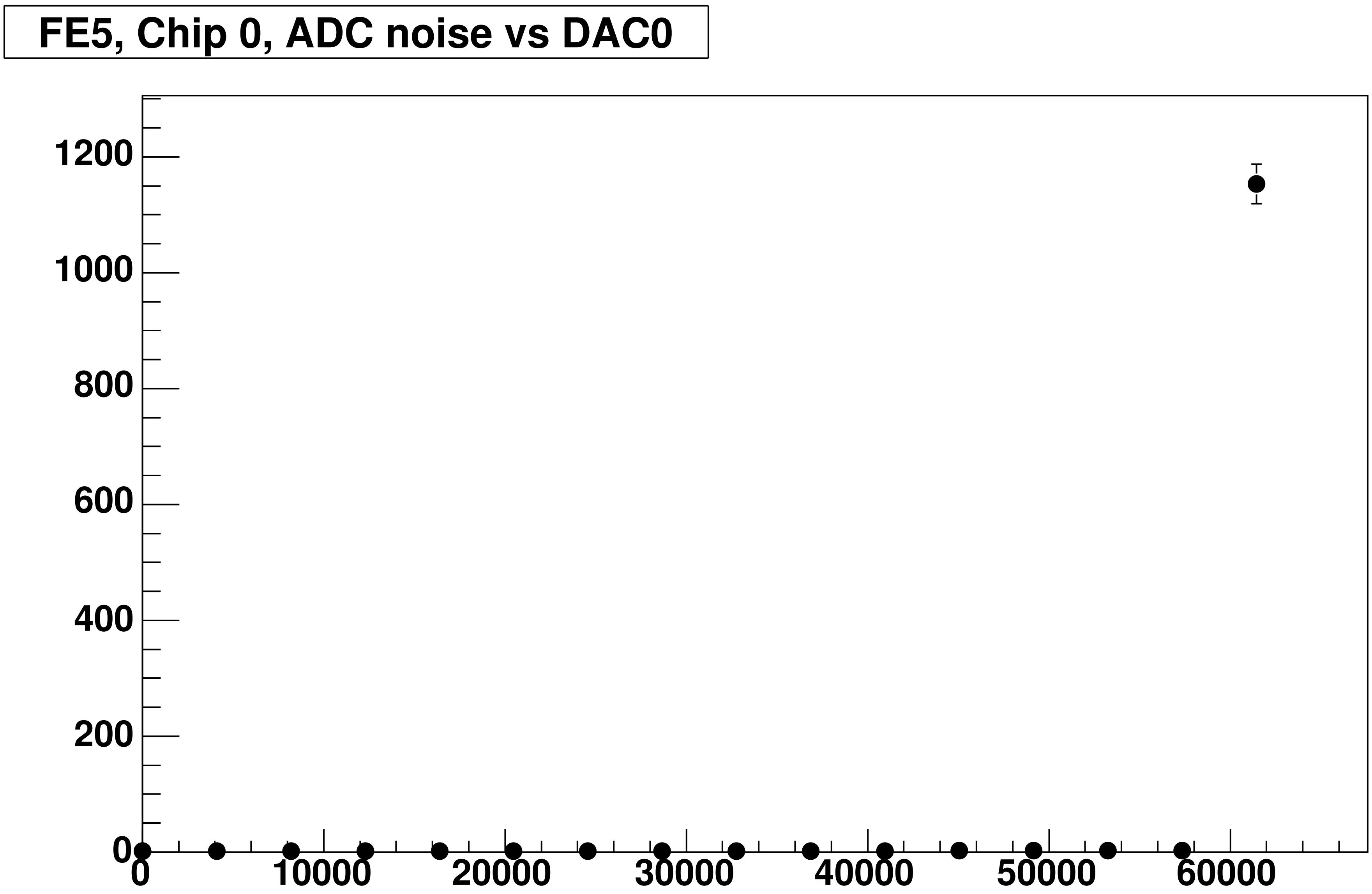


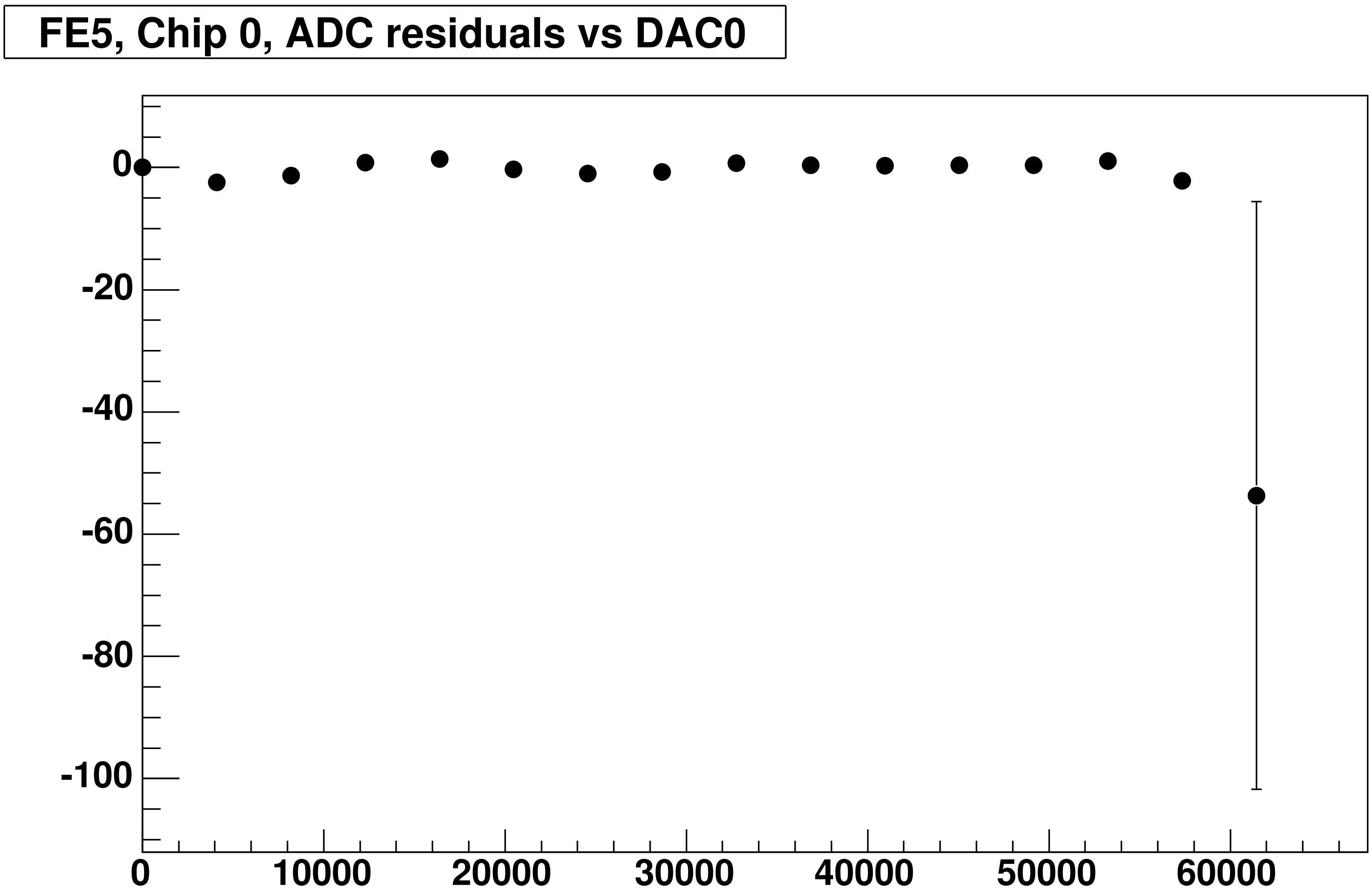
FE4, Chip 11, ADC mean vs DAC1
χ2 / ndf 794.9 / 11
p0 -55.85 ± 0.04225
p1 0.4501 ± 1.364e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

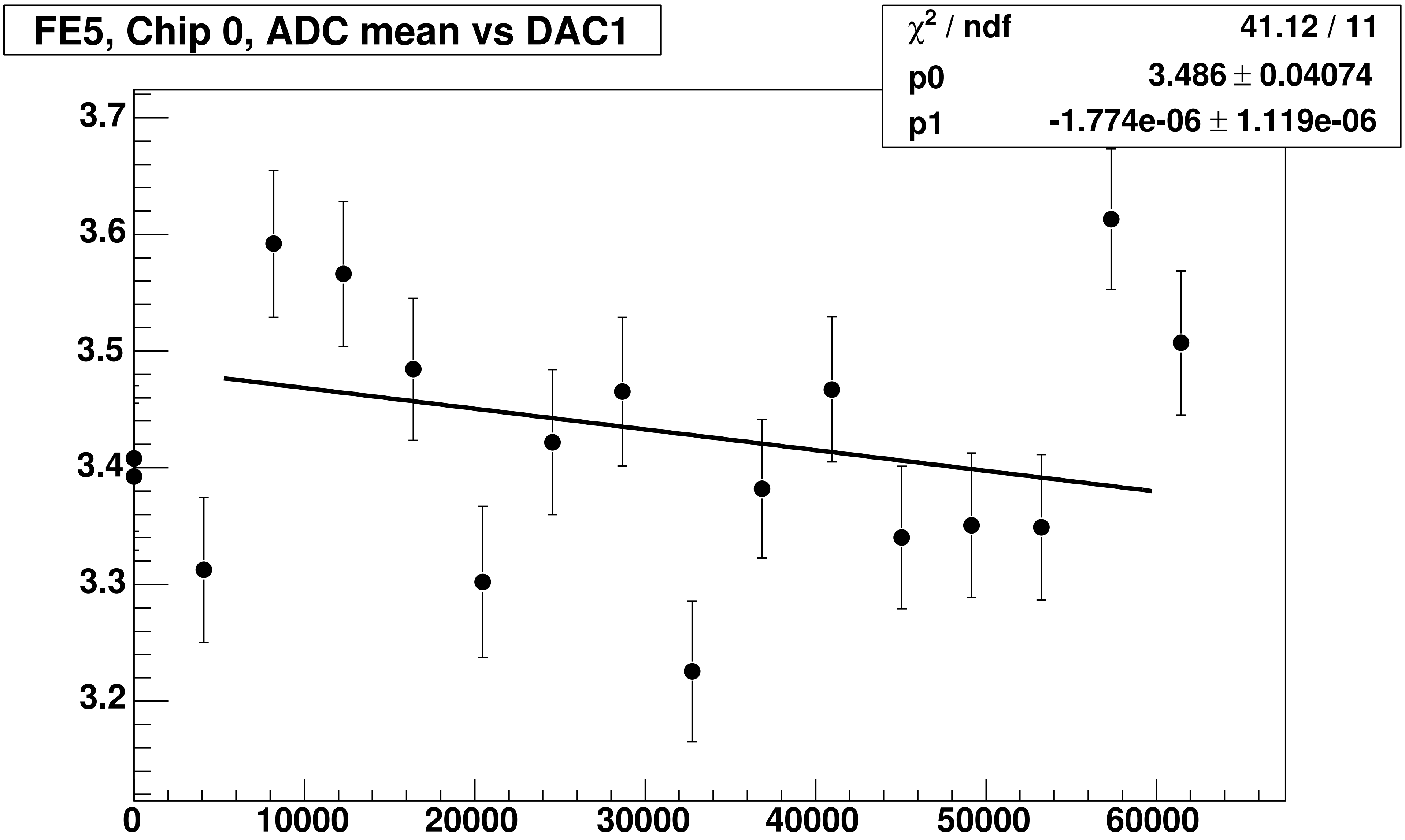

FE4, Chip 11, ADC residuals vs DAC1
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
0
10000
20000
30000
40000
50000
60000


FE5, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2354 / 11
p0 6.921 ± 0.04336
p1 0.4504 ± 1.404e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

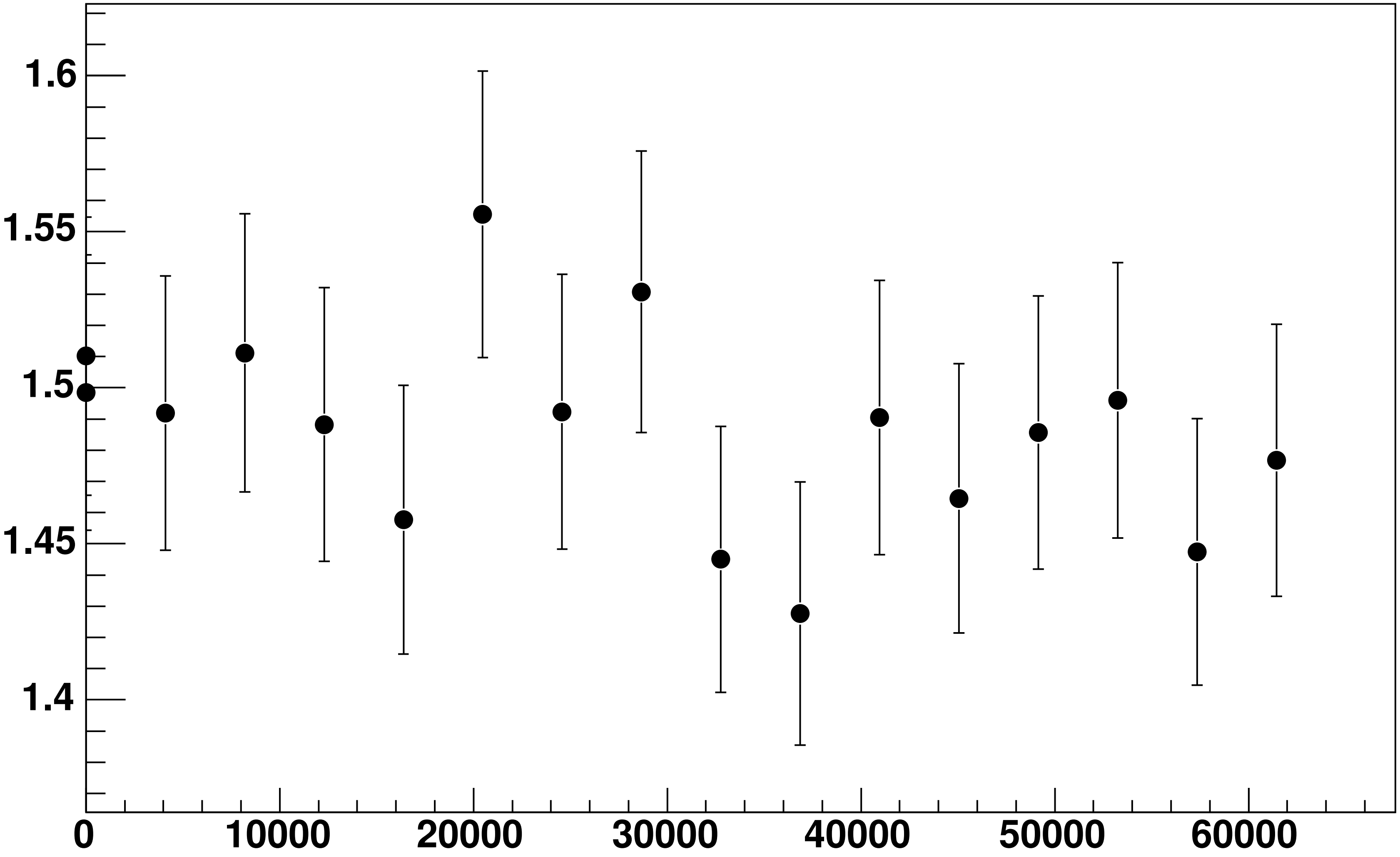


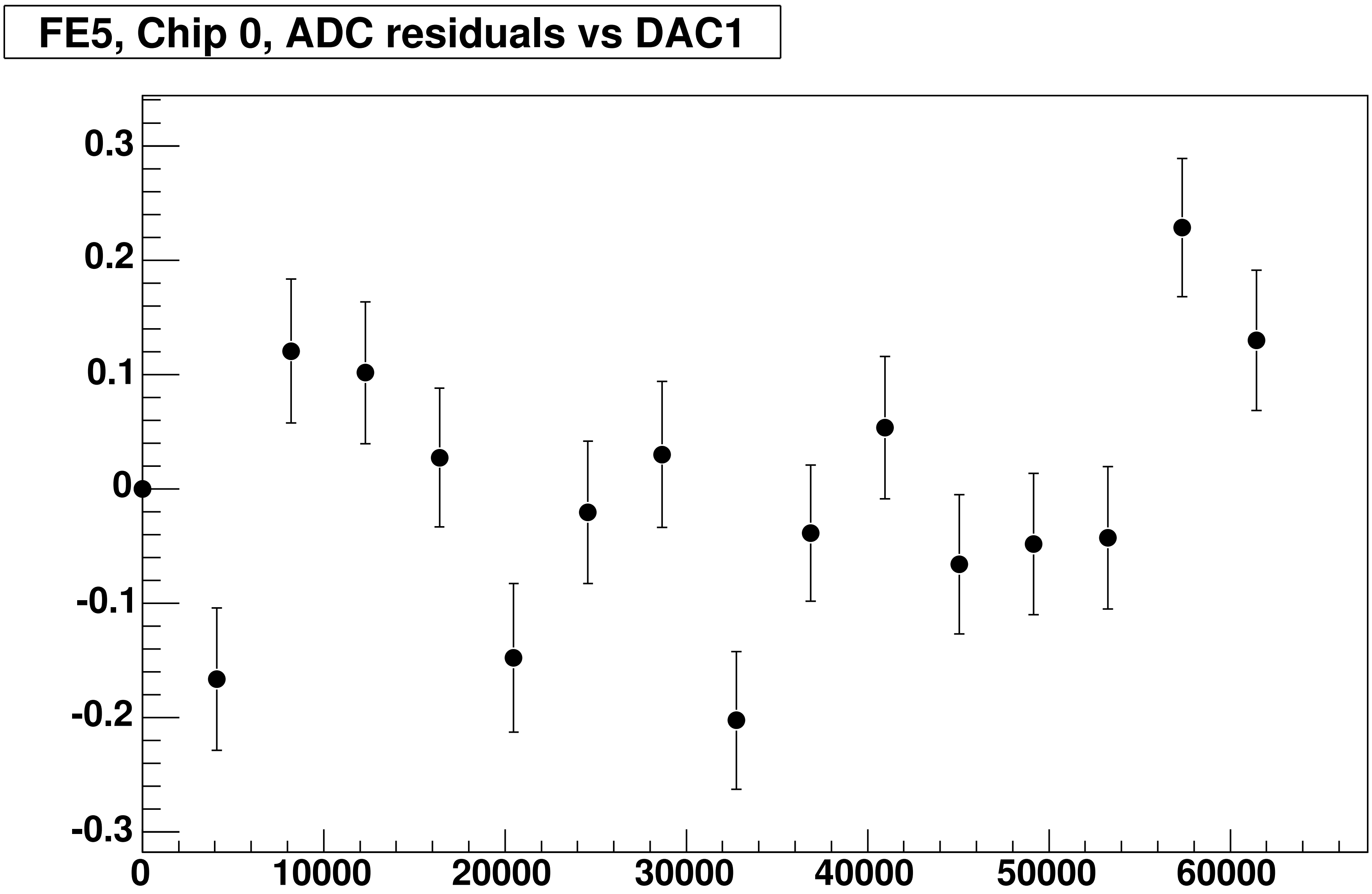
FE5, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

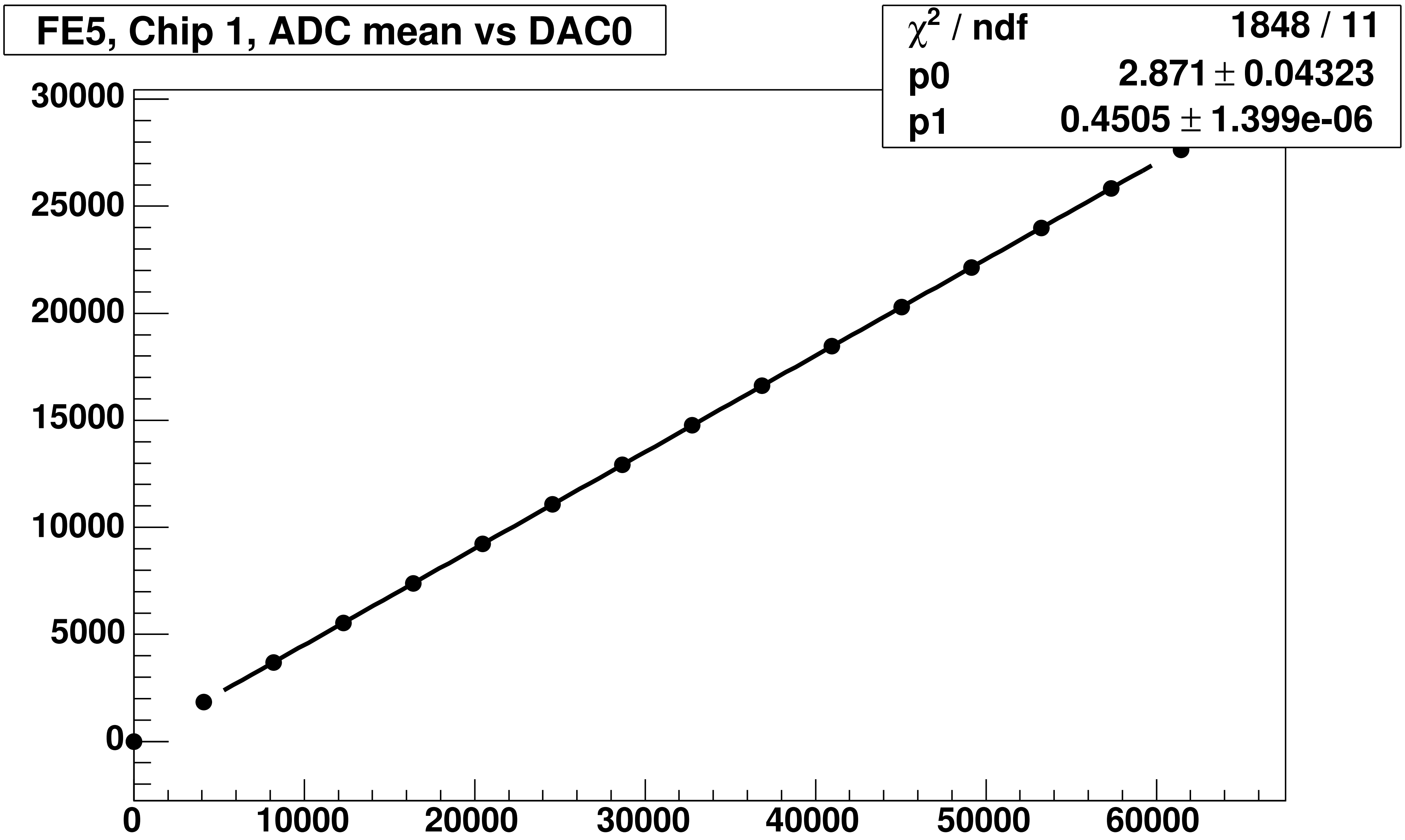


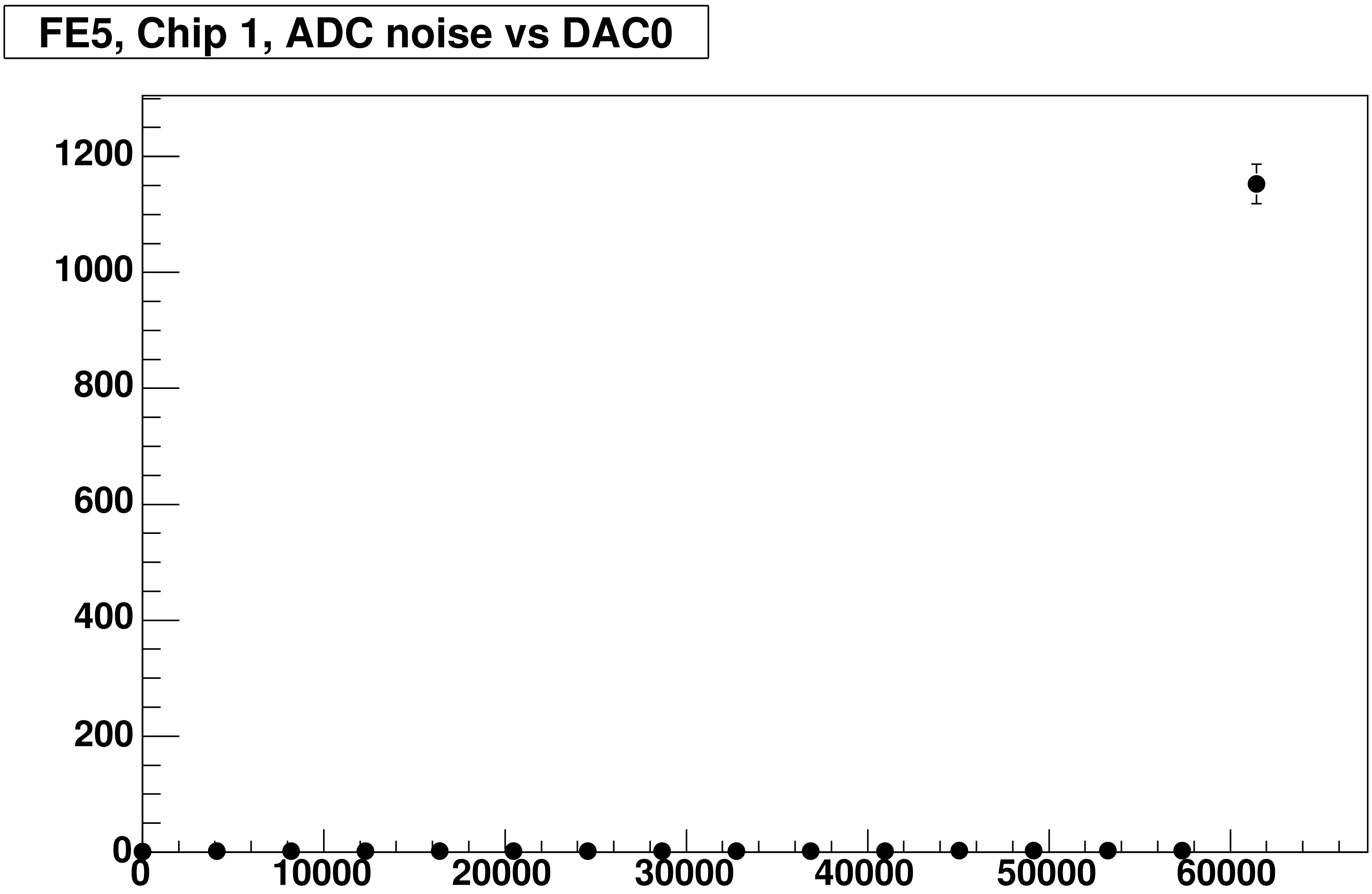
FE5, Chip 0, ADC mean vs DAC1
χ2 / ndf 41.12 / 11
p0 3.486 ± 0.04074
p1 -1.774e-06 ± 1.119e-06
3.7
3.6
3.5
3.4
3.3
3.2
0
10000
20000
30000
40000
50000
60000

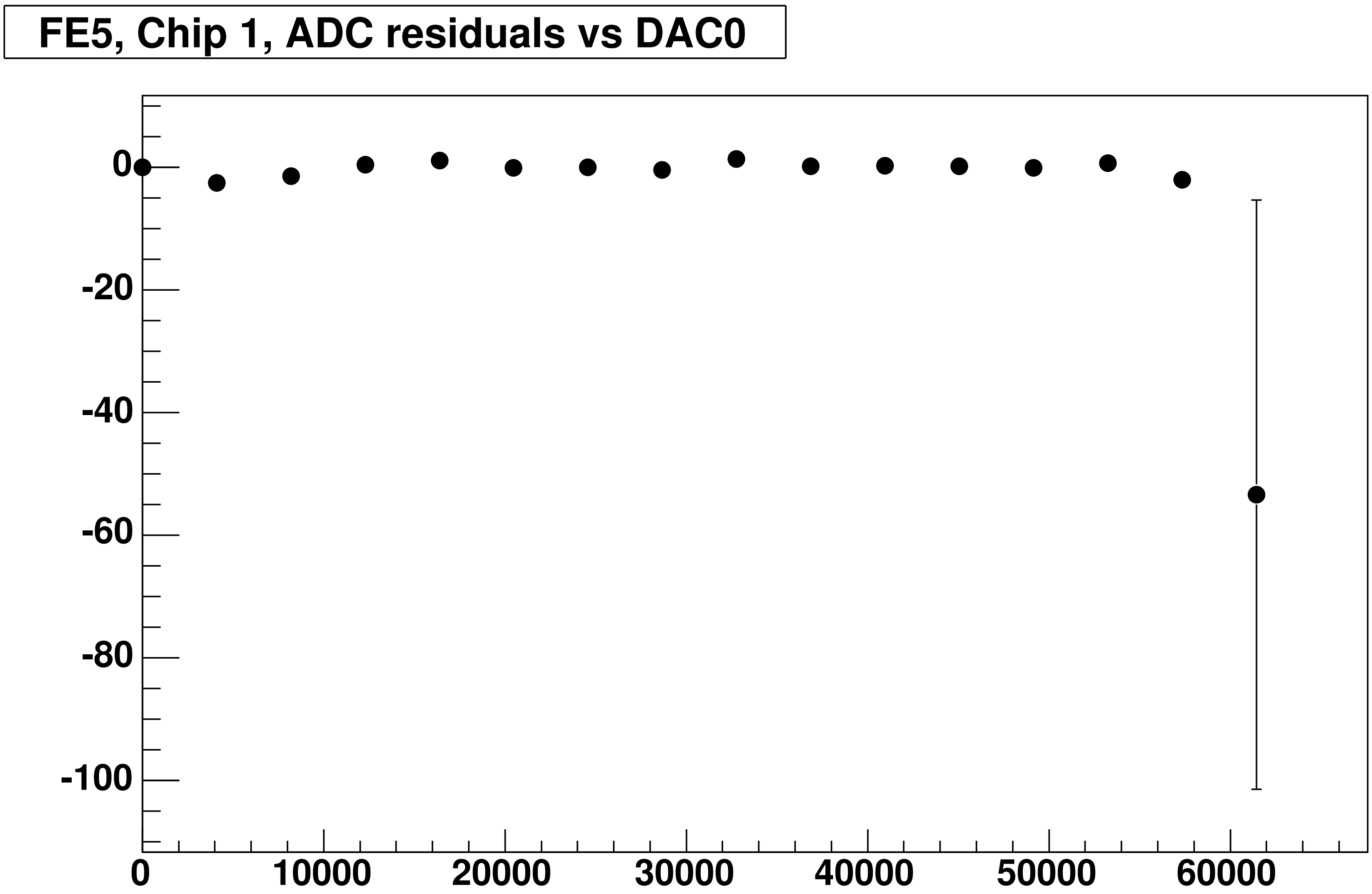
FE5, Chip 0, ADC noise vs DAC1

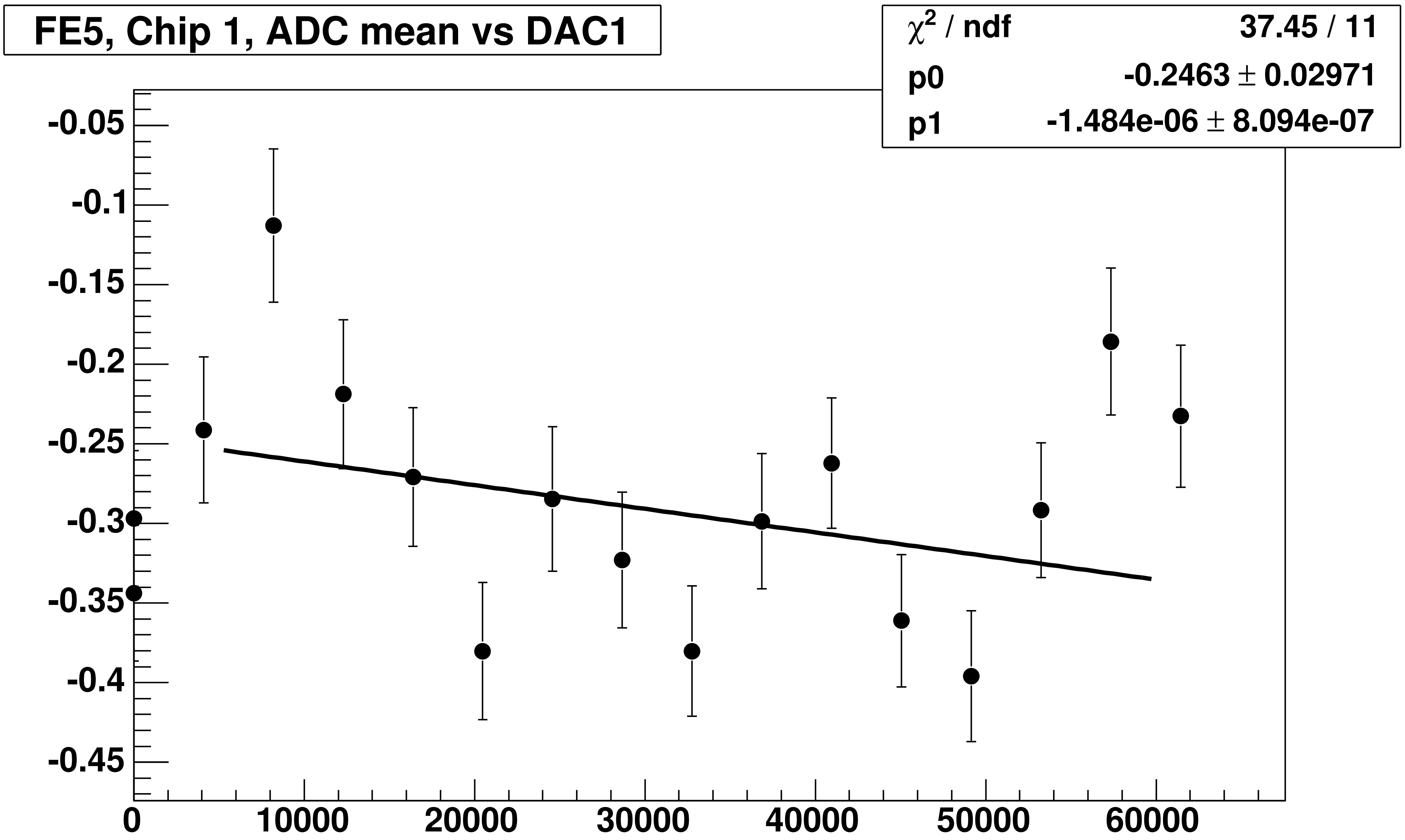



FE5, Chip 0, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

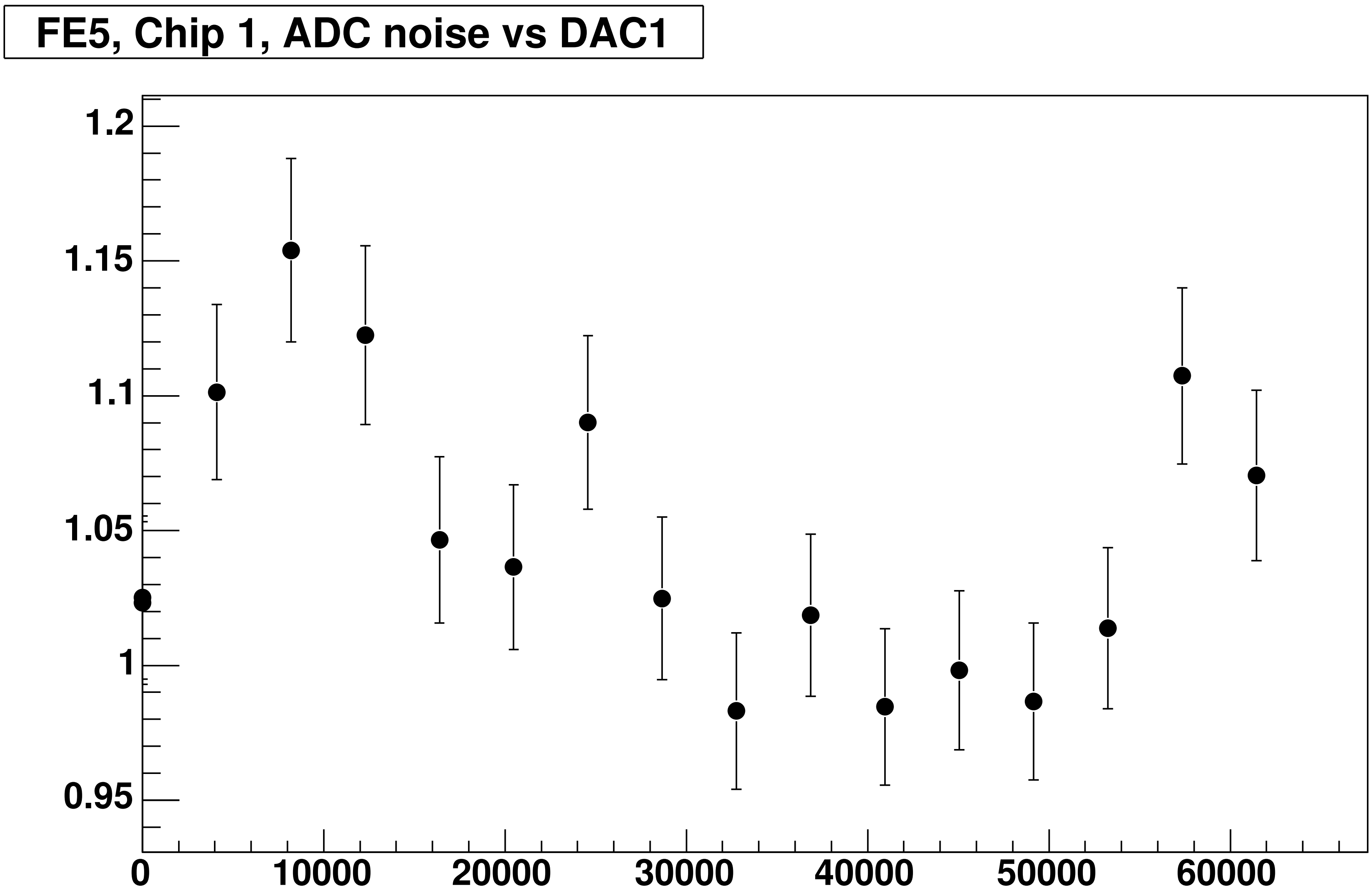

FE5, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1848 / 11
p0 2.871 ± 0.04323
p1 0.4505 ± 1.399e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

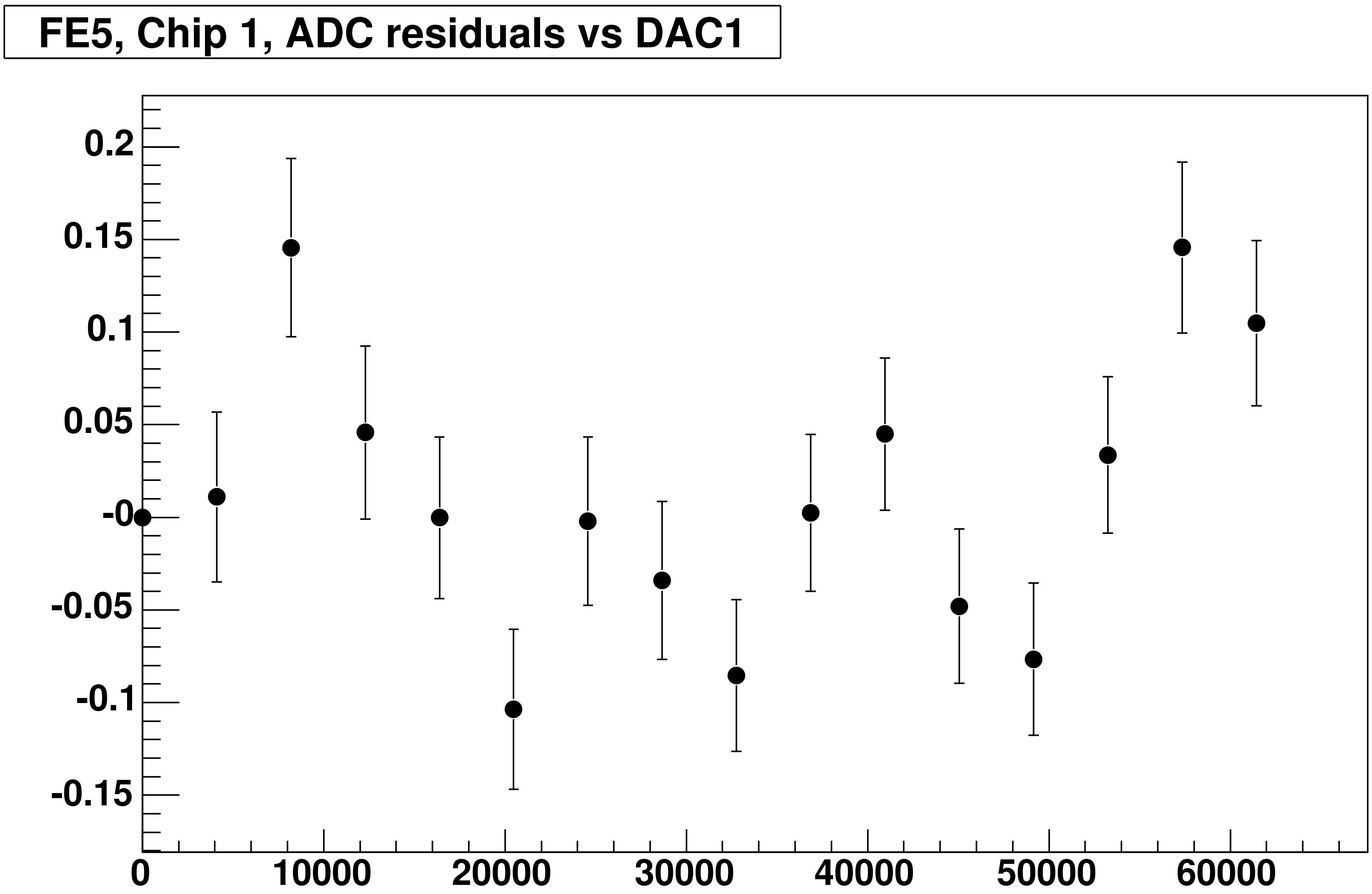

FE5, Chip 1, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

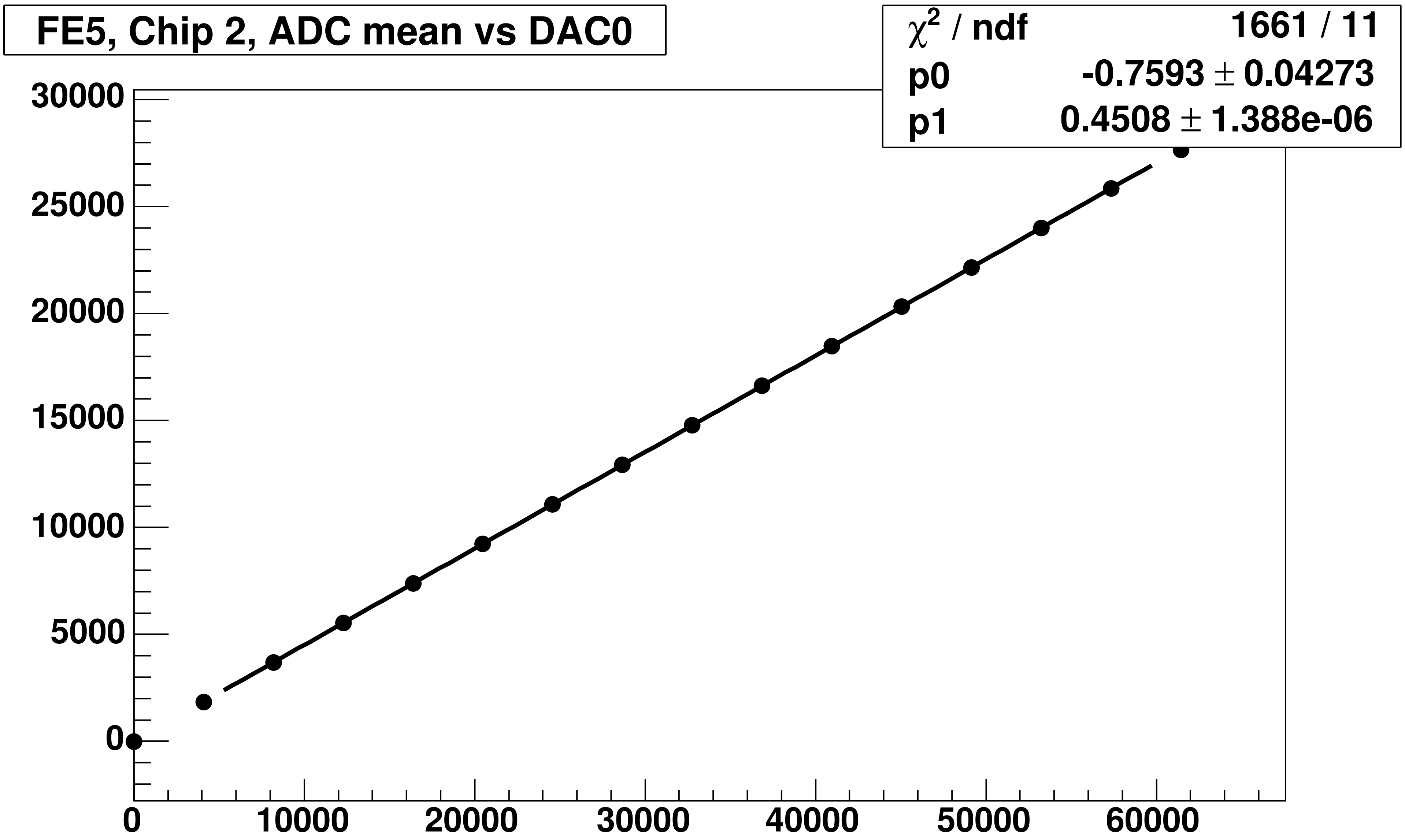

FE5, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



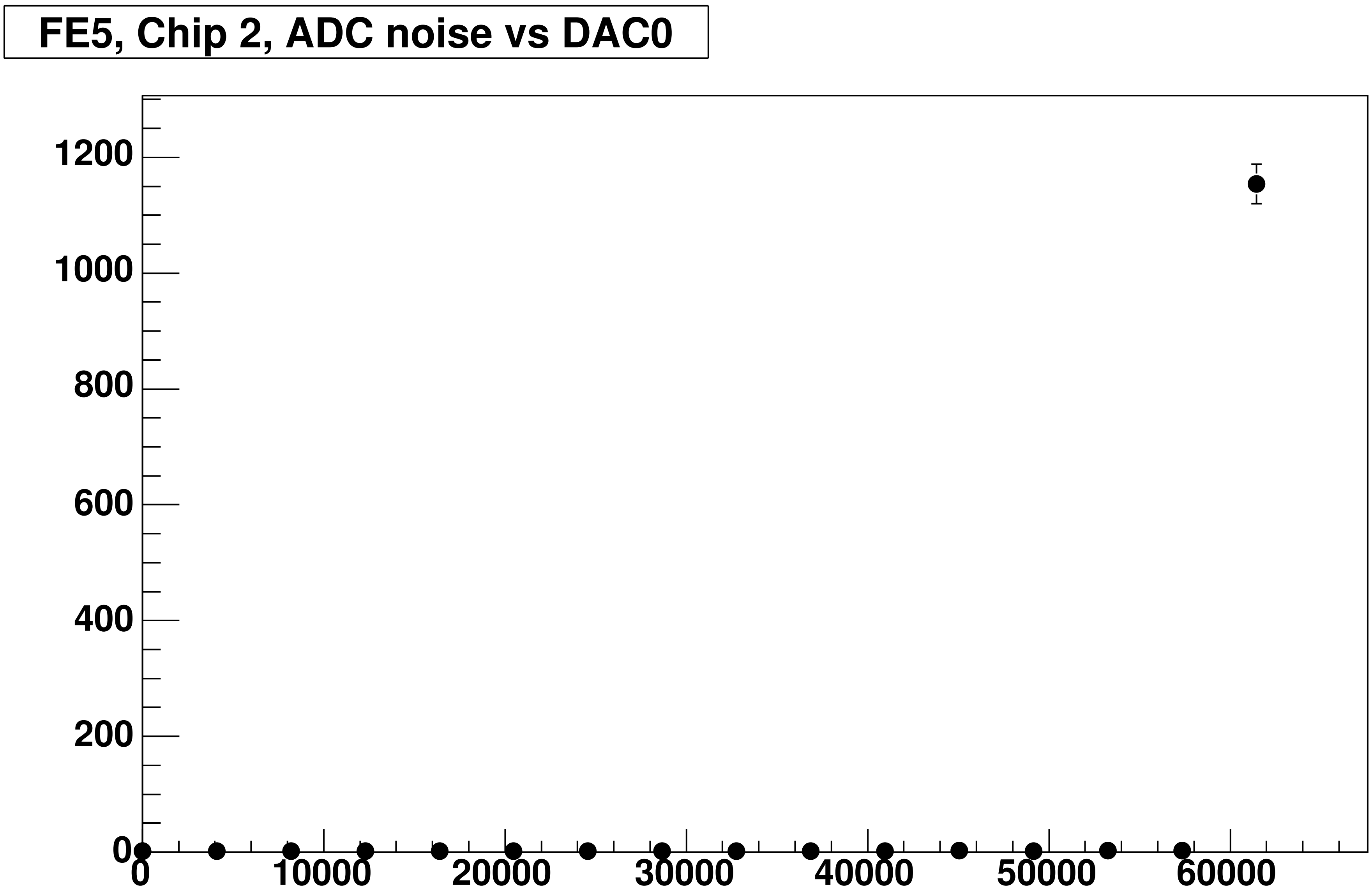
FE5, Chip 1, ADC mean vs DAC1
χ^2 / ndf 37.45 / 11
p0 -0.2463 ± 0.02971
p1 -1.484e-06 ± 8.094e-07
-0.05
-0.1
-0.15
-0.2
-0.25
-0.3
-0.35
-0.4
-0.45
0
10000
20000
30000
40000
50000
60000


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


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

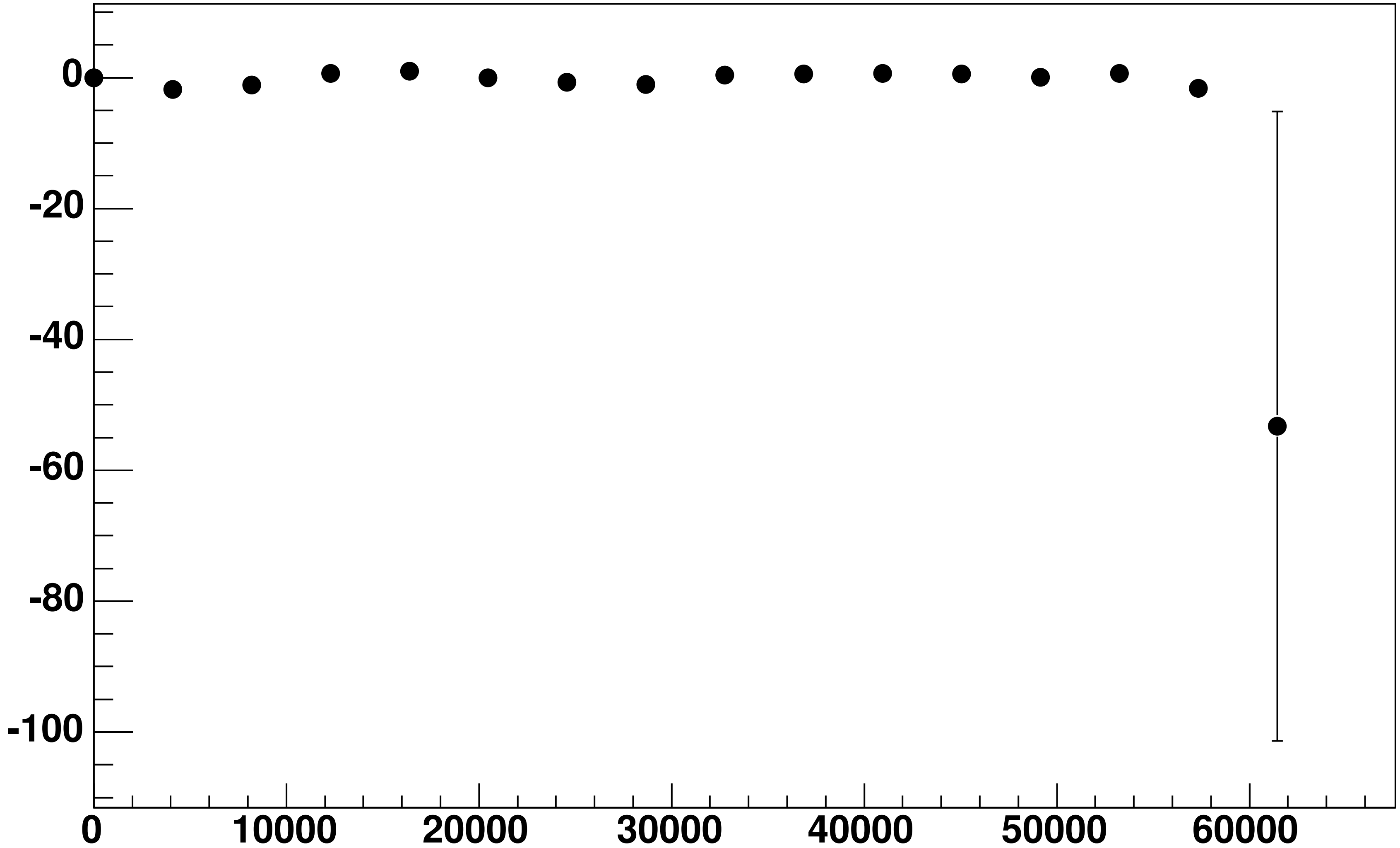


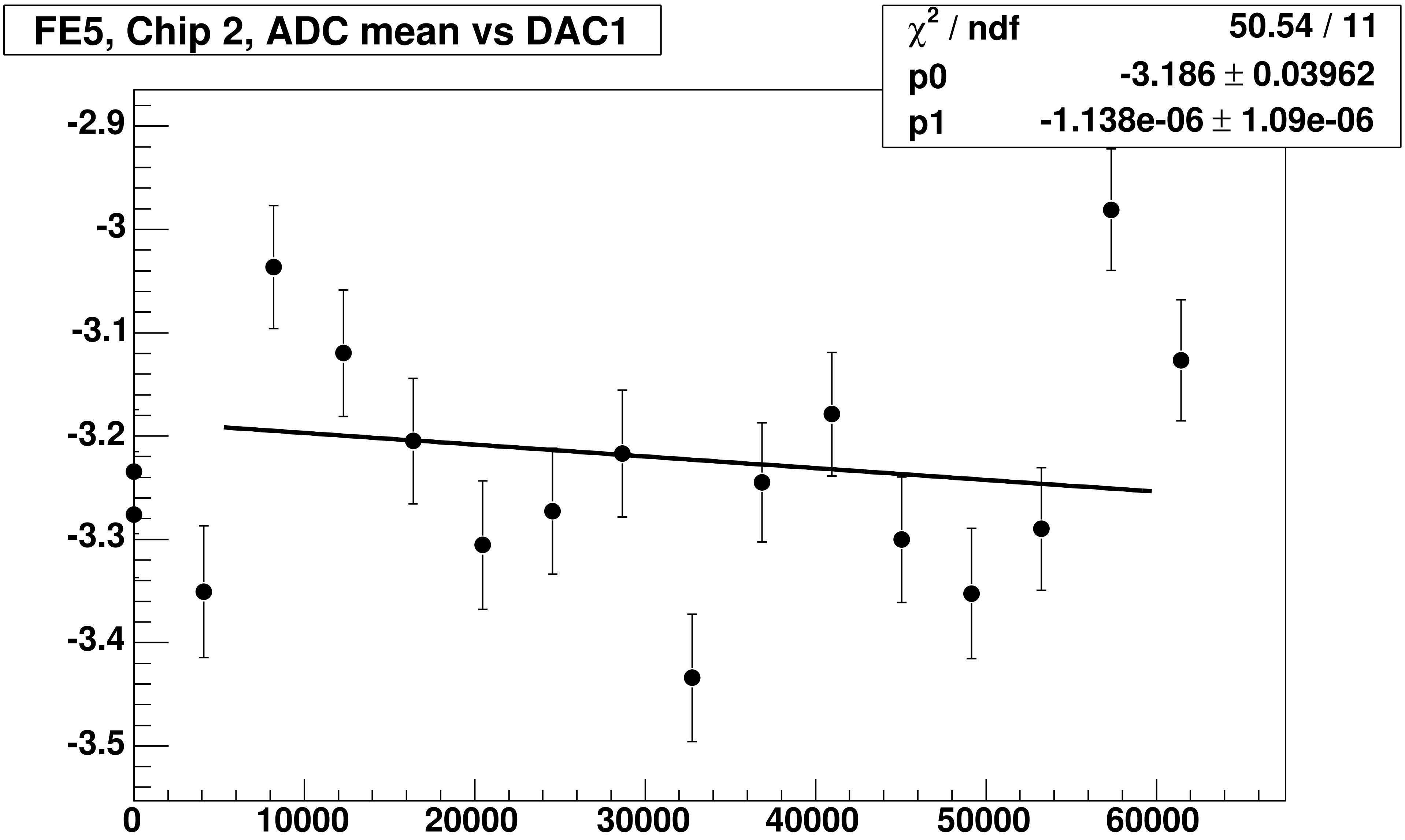
FE5, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1661 / 11
p0 -0.7593 ± 0.04273
p1 0.4508 ± 1.388e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



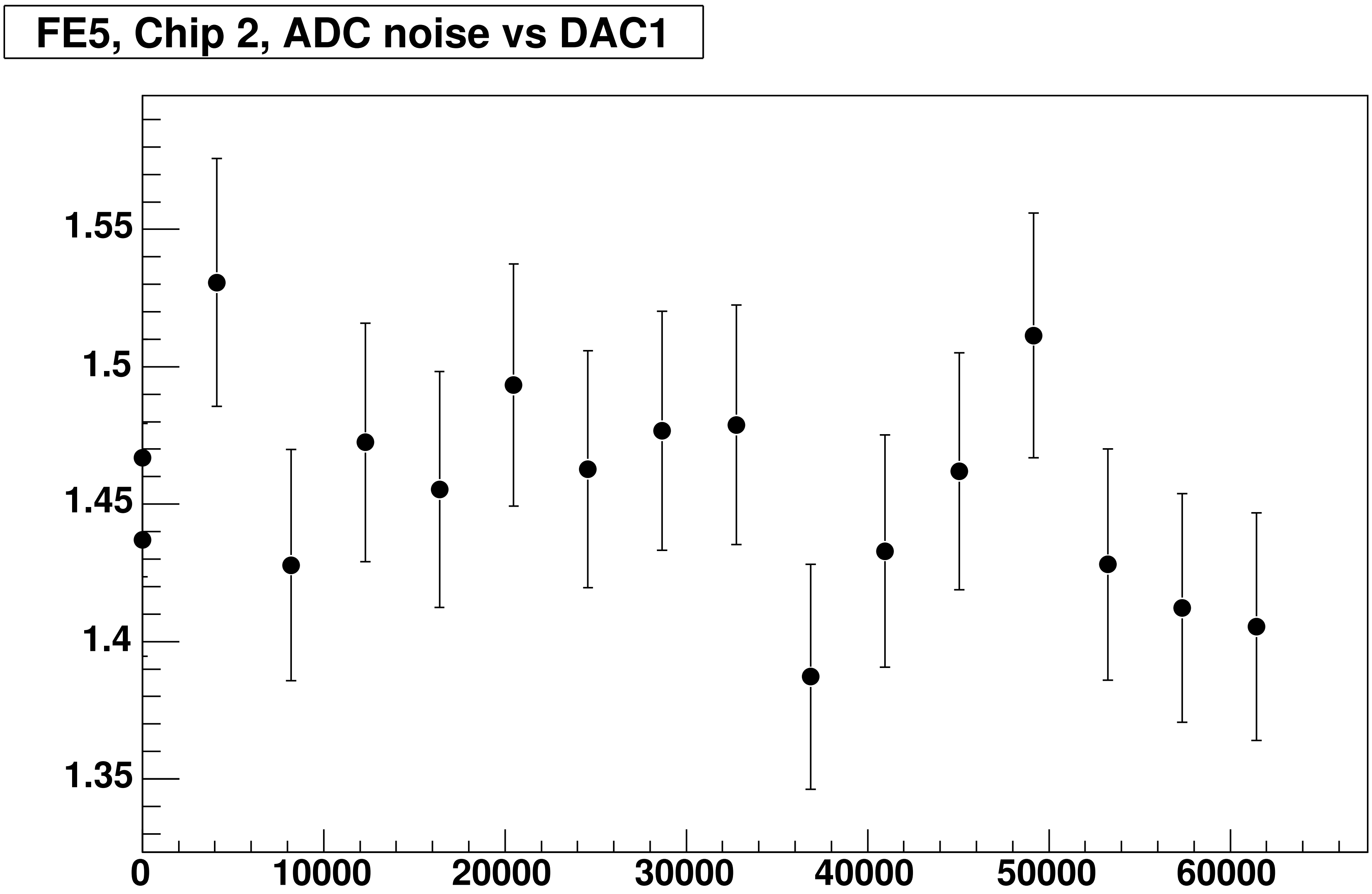
FE5, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

FE5, Chip 2, ADC residuals vs DAC0

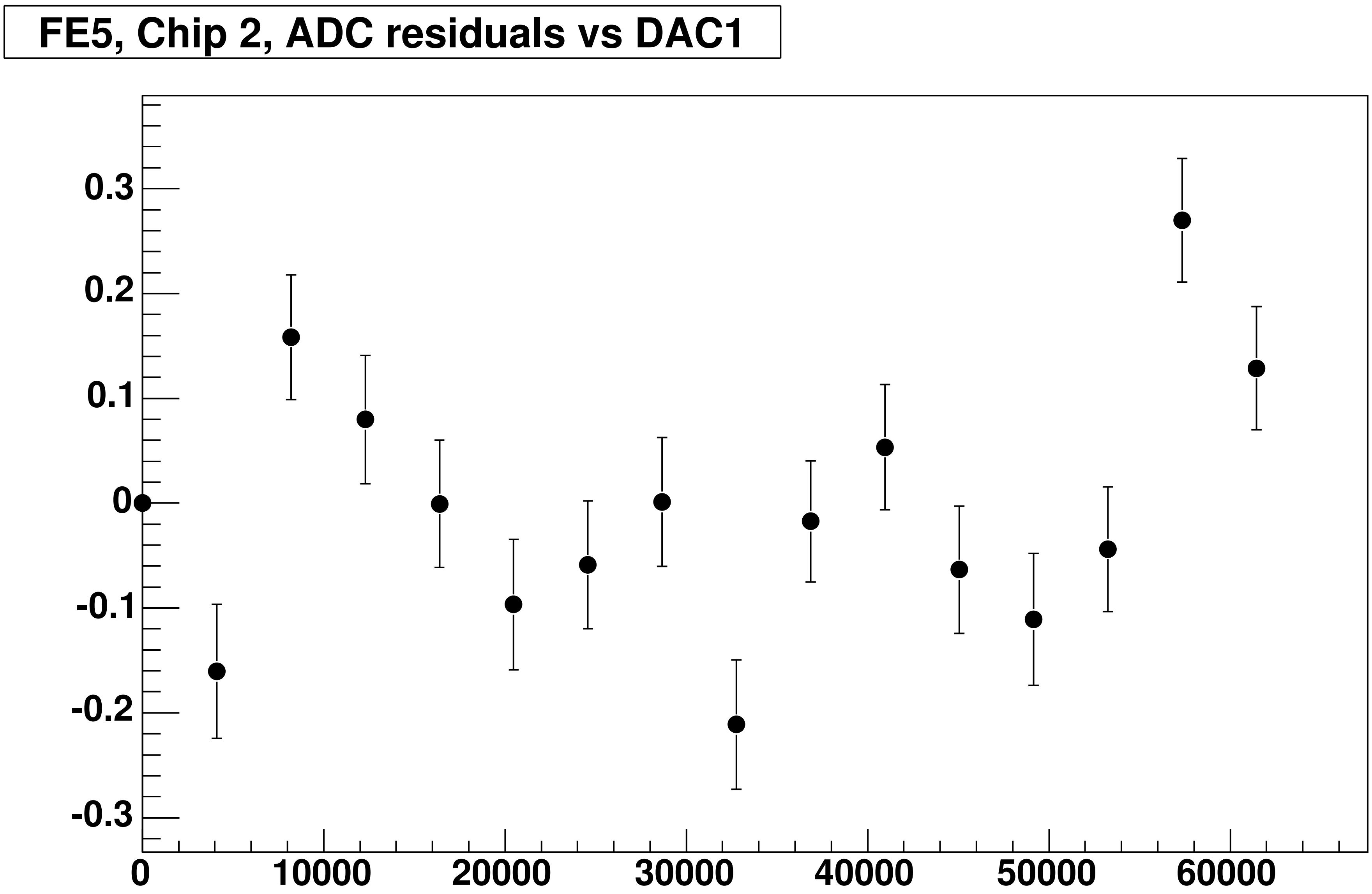




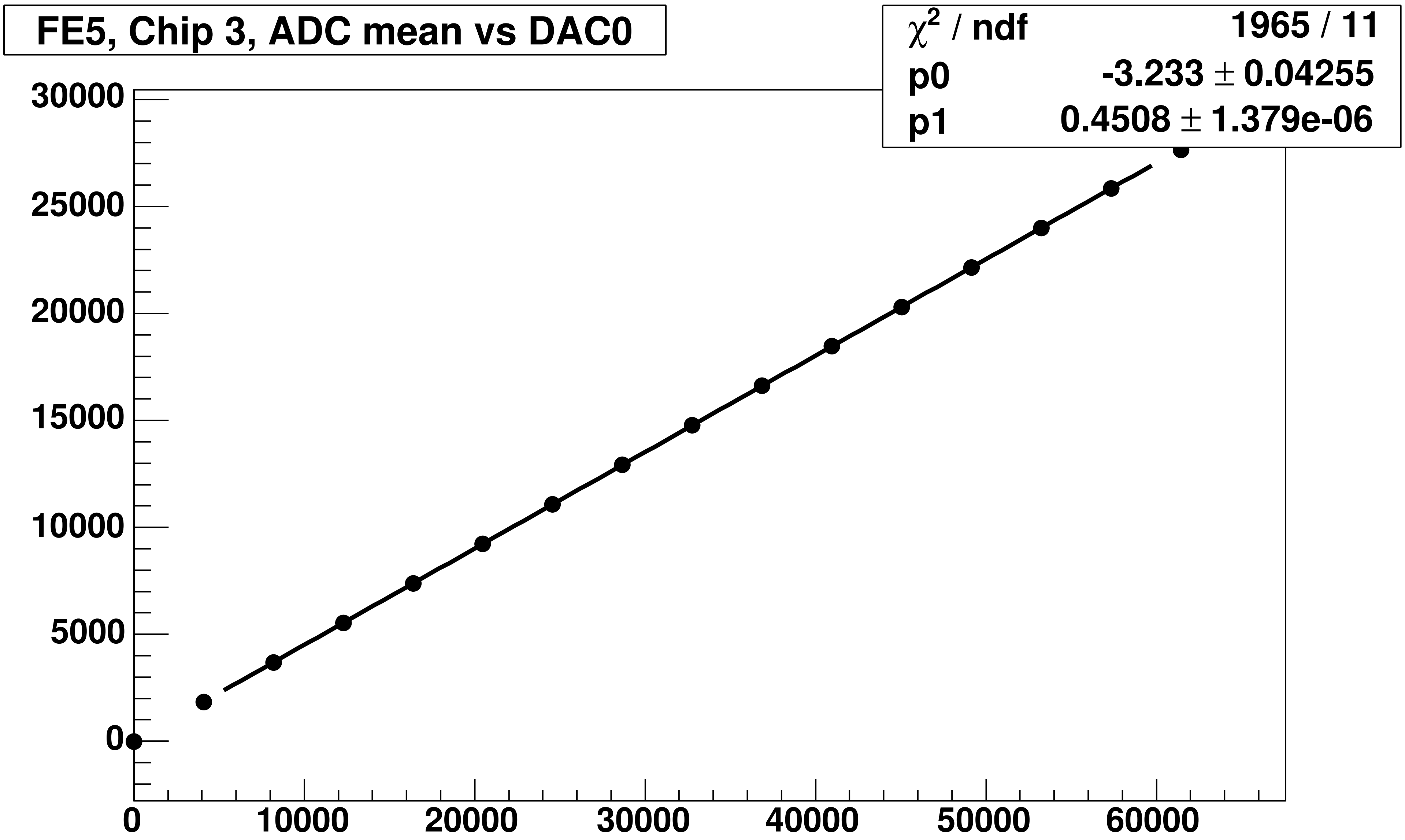
FE5, Chip 2, ADC mean vs DAC1
χ^2 / ndf 50.54 / 11
p0 -3.186 ± 0.03962
p1 -1.138e-06 ± 1.09e-06
-2.9
-3
-3.1
-3.2
-3.3
-3.4
-3.5
0
10000
20000
30000
40000
50000
60000



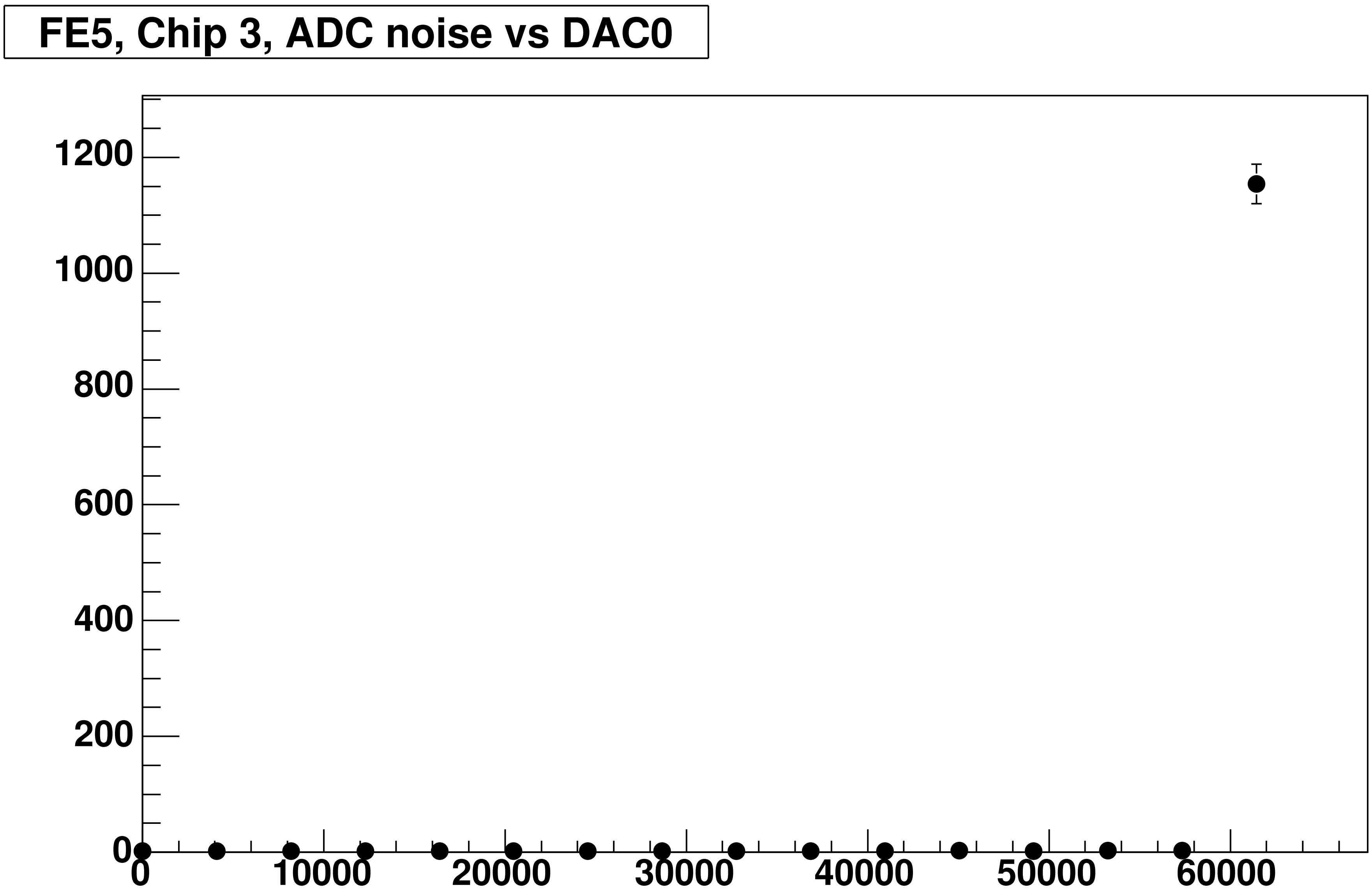
FE5, Chip 2, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

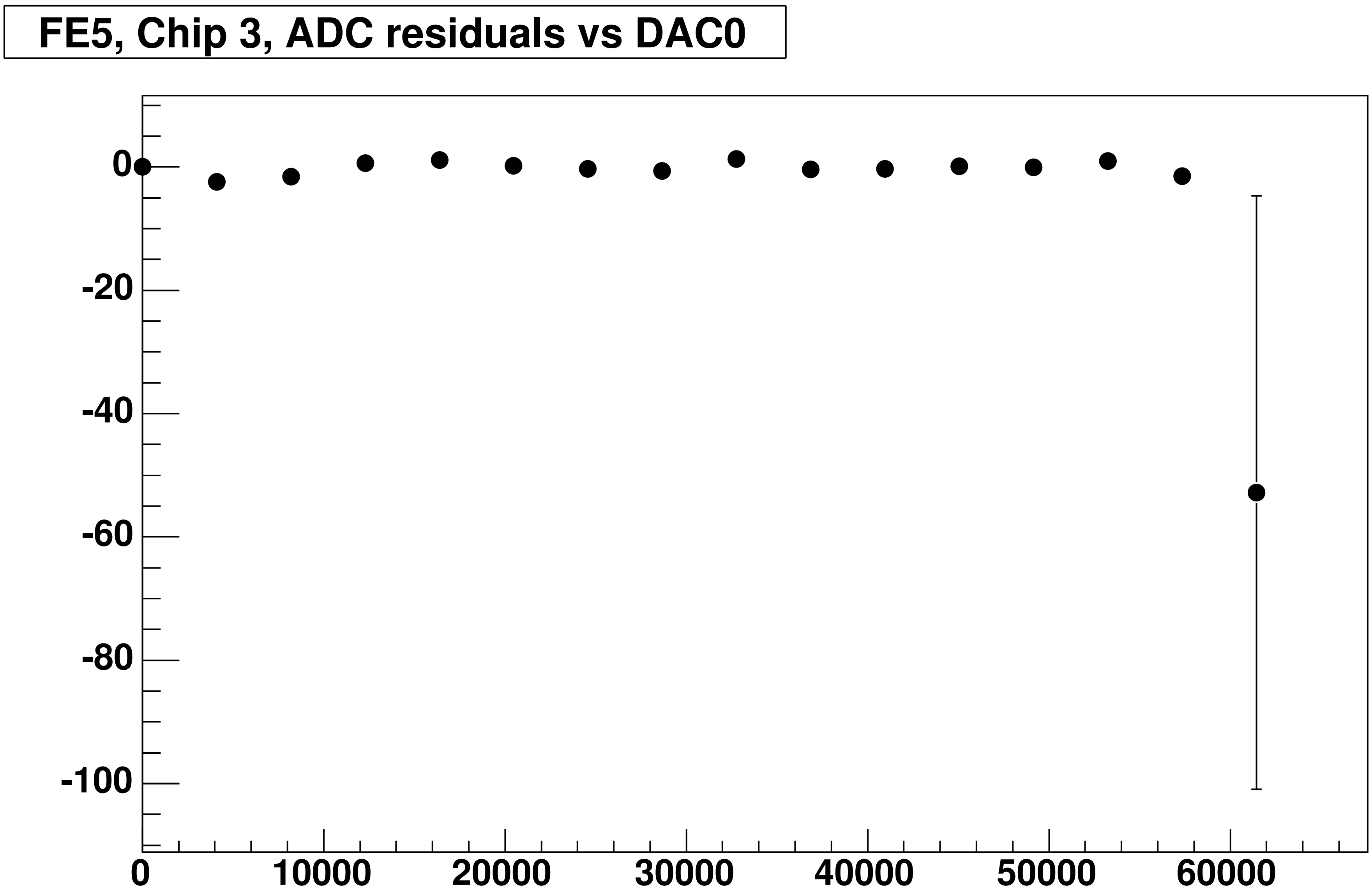


FE5, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

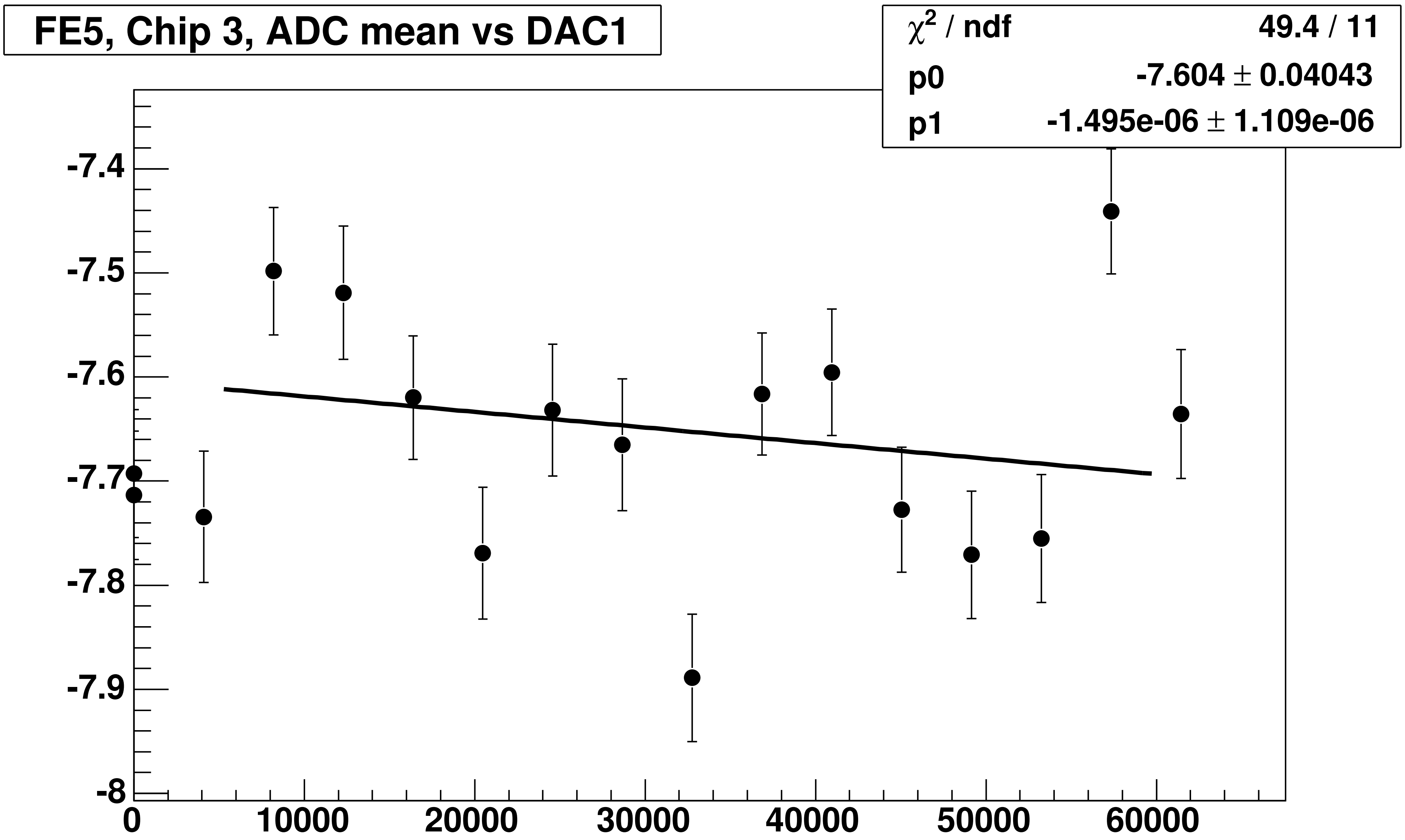


FE5, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1965 / 11
p0 -3.233 ± 0.04255
p1 0.4508 ± 1.379e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

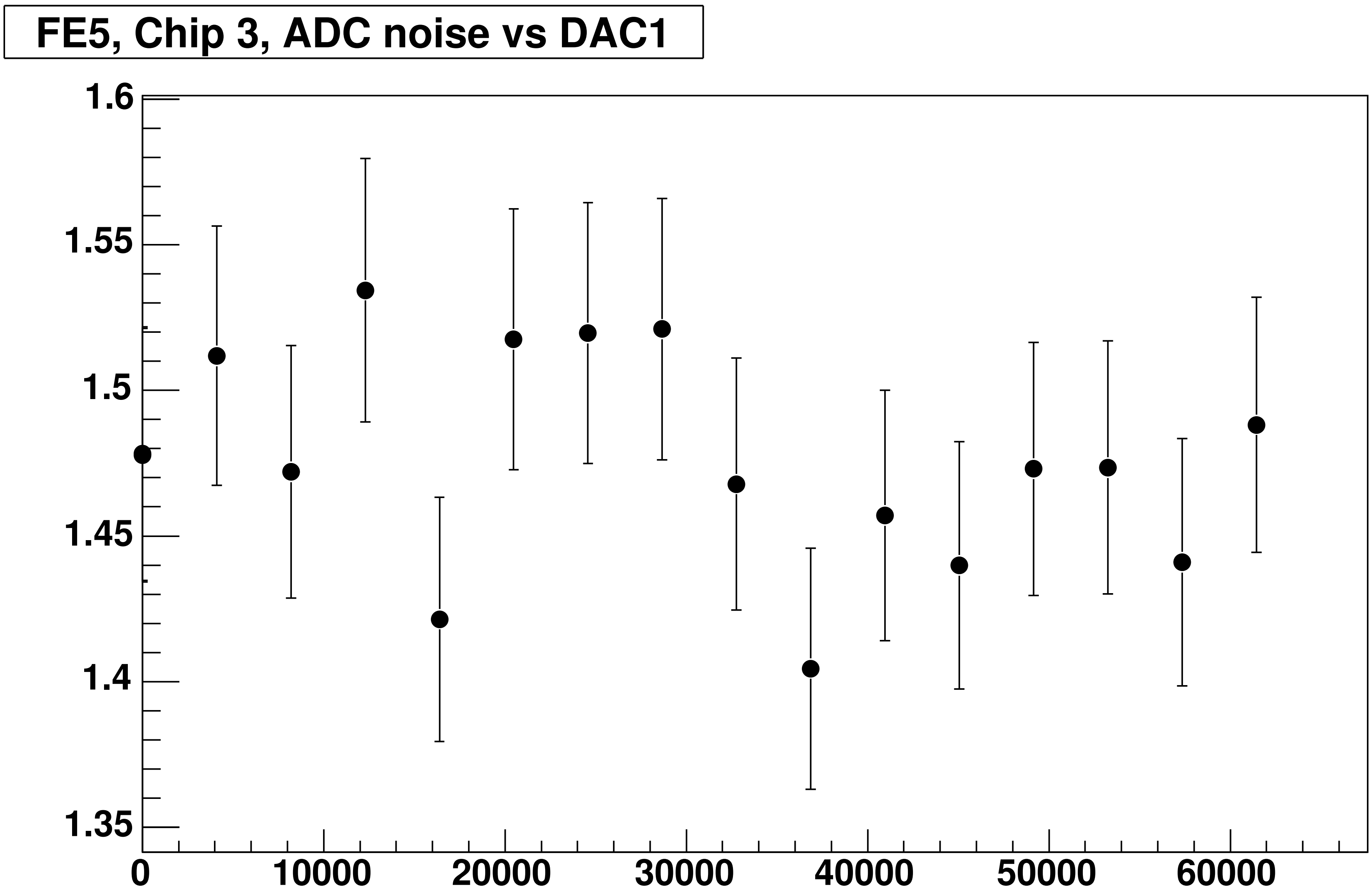

FE5, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

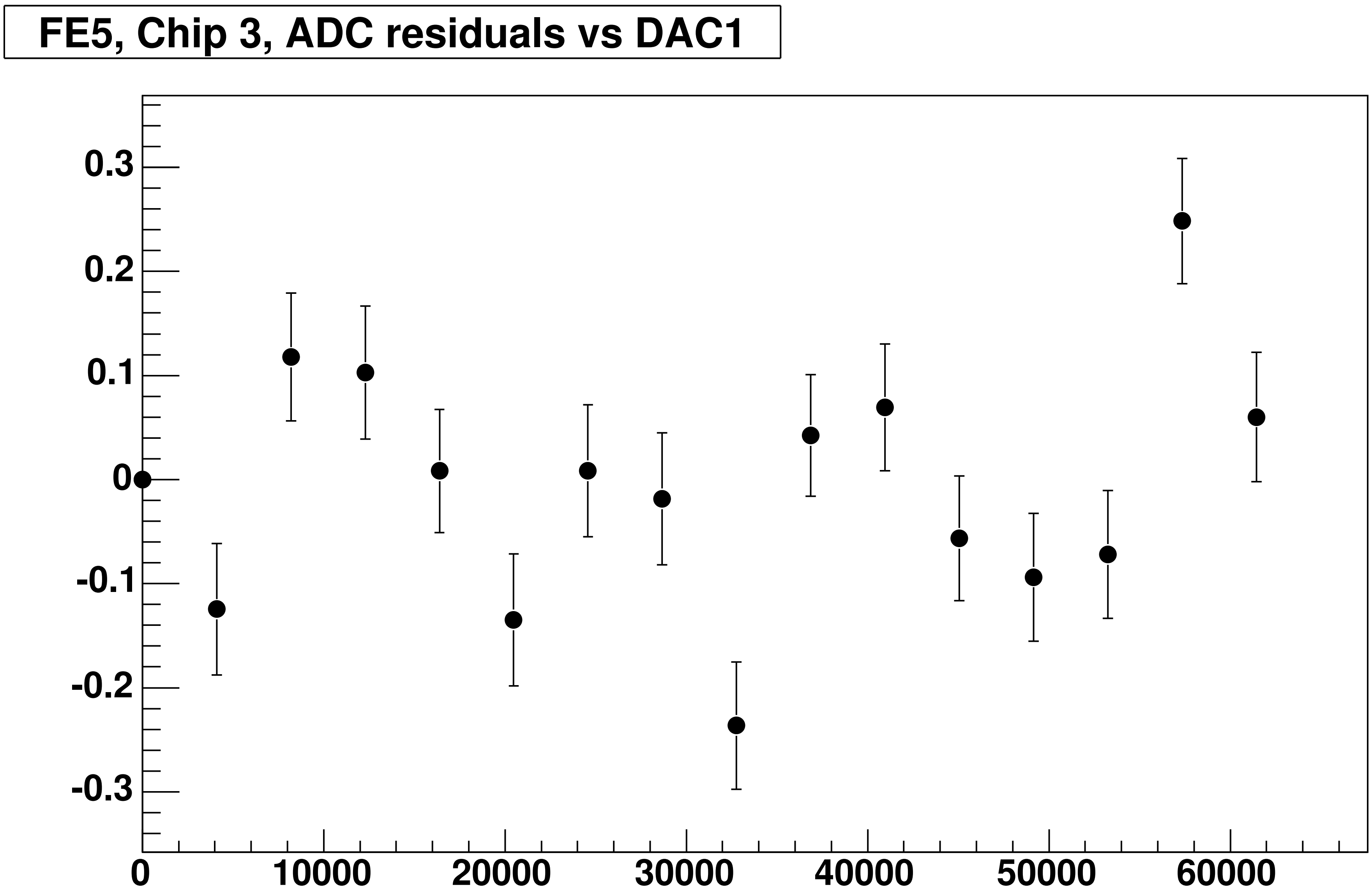


FE5, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

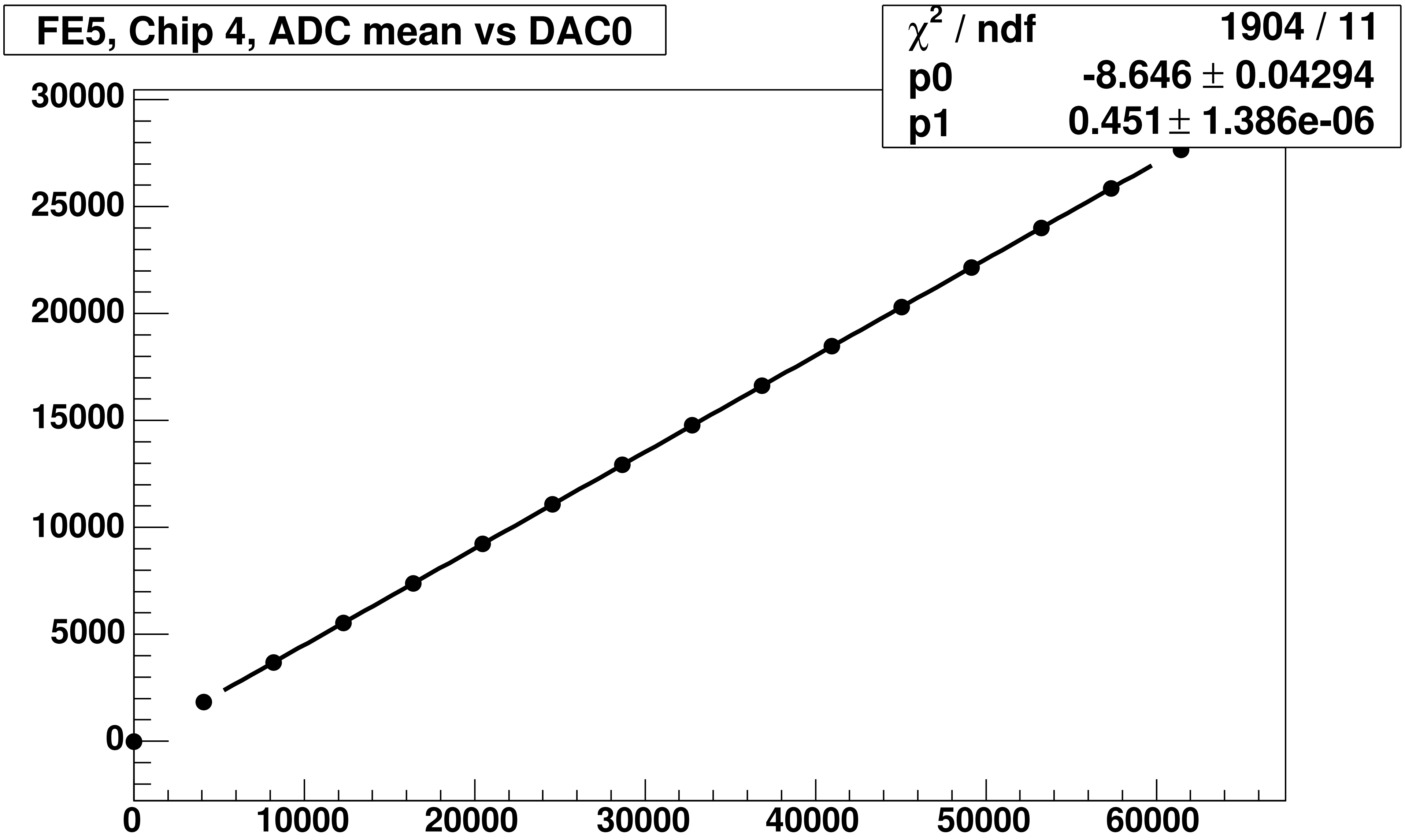


FE5, Chip 3, ADC mean vs DAC1
χ2 / ndf 49.4 / 11
p0 -7.604 ± 0.04043
p1 -1.495e-06 ± 1.109e-06
-7.4
-7.5
-7.6
-7.7
-7.8
-7.9
-8
0
10000
20000
30000
40000
50000
60000

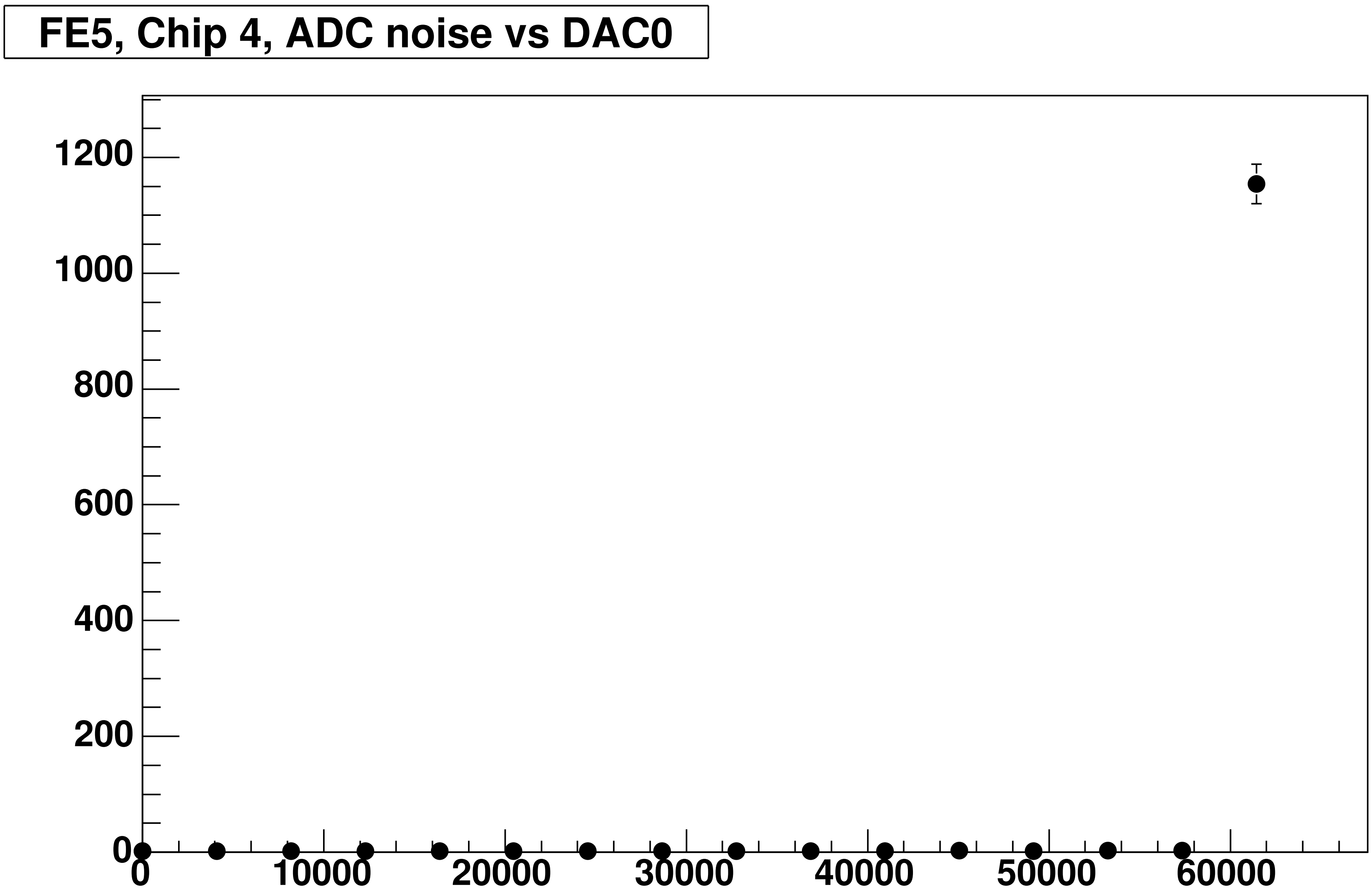

FE5, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



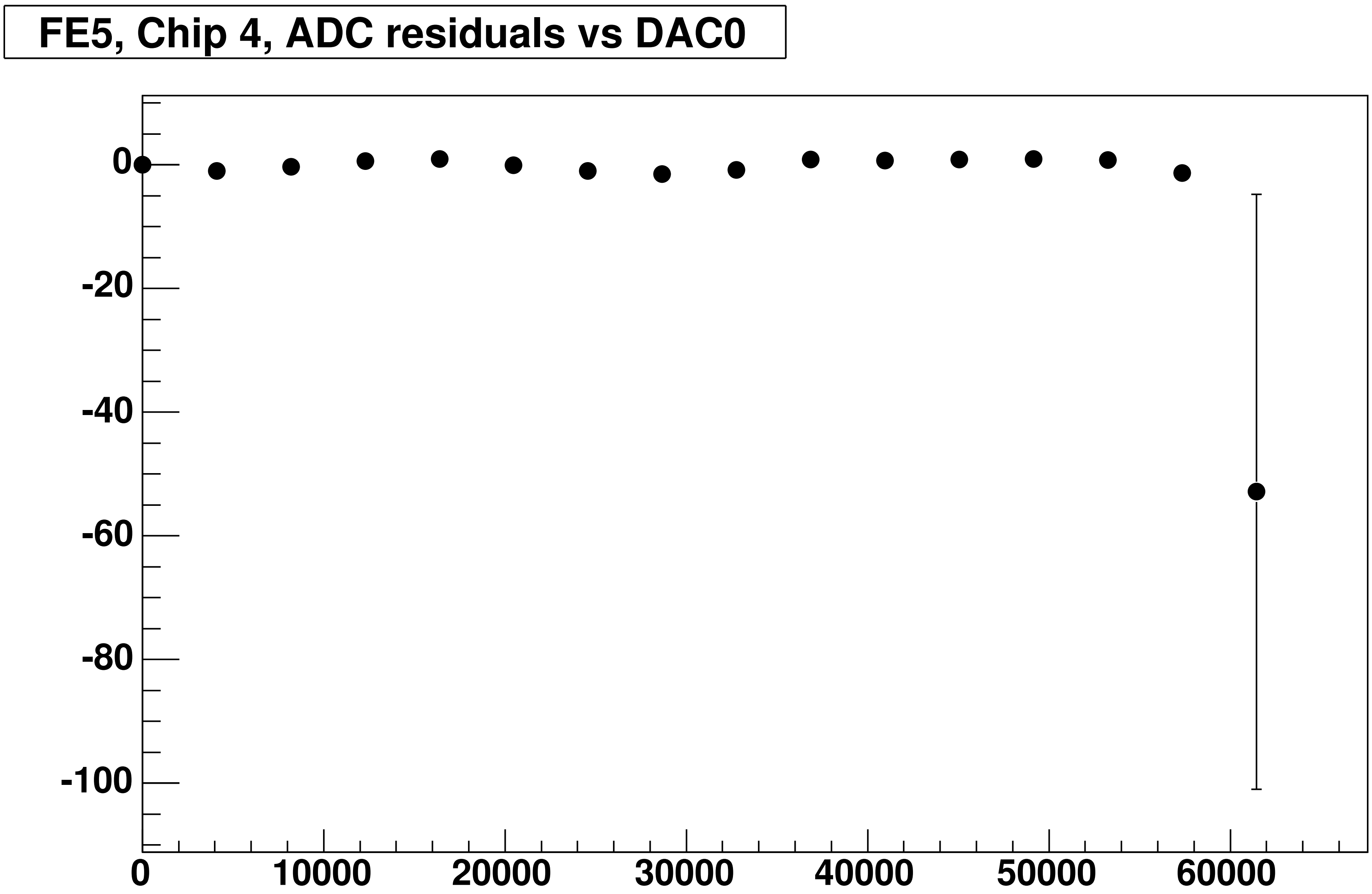
FE5, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



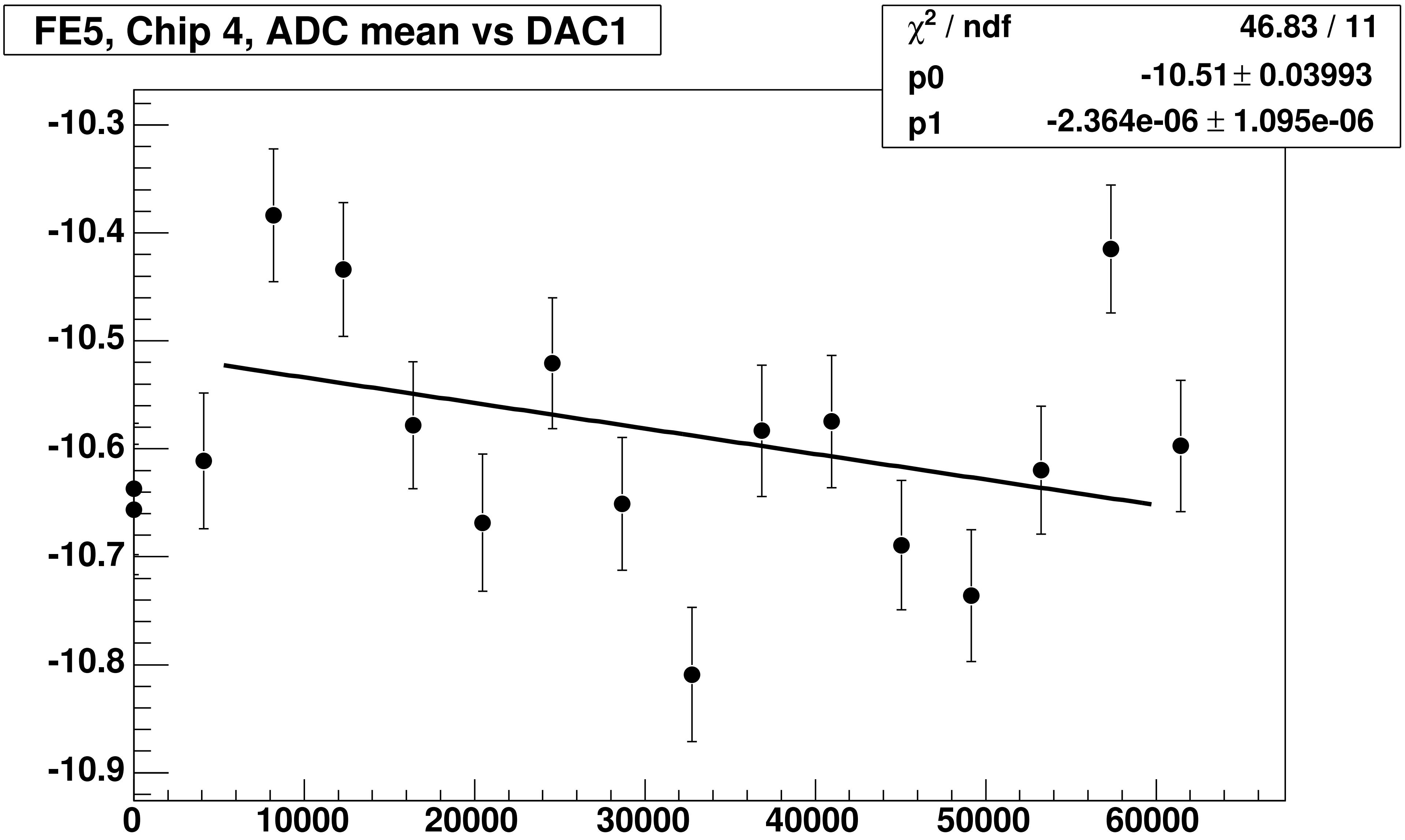
FE5, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1904 / 11
p0 -8.646 ± 0.04294
p1 0.451 ± 1.386e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



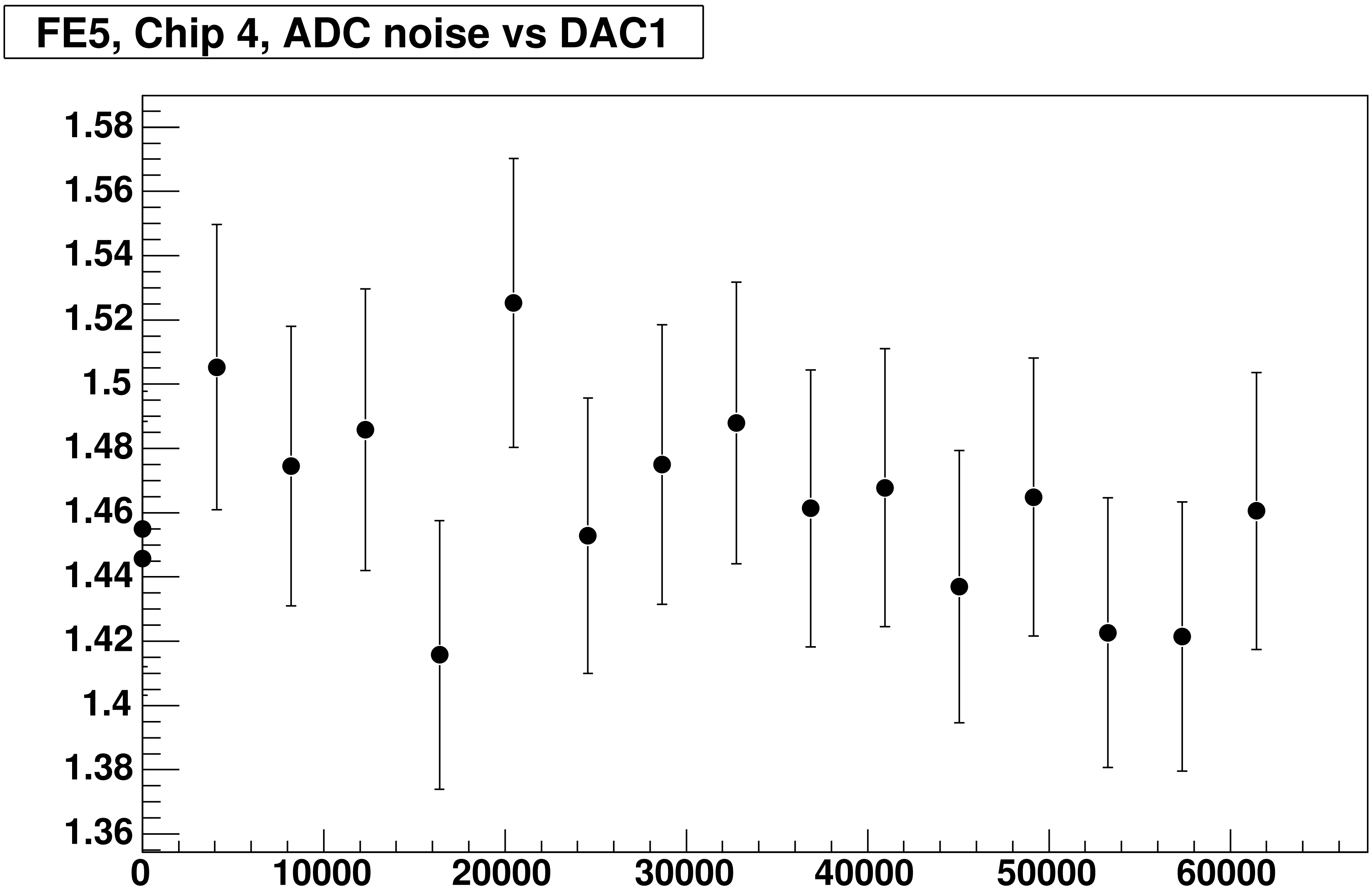
FE5, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

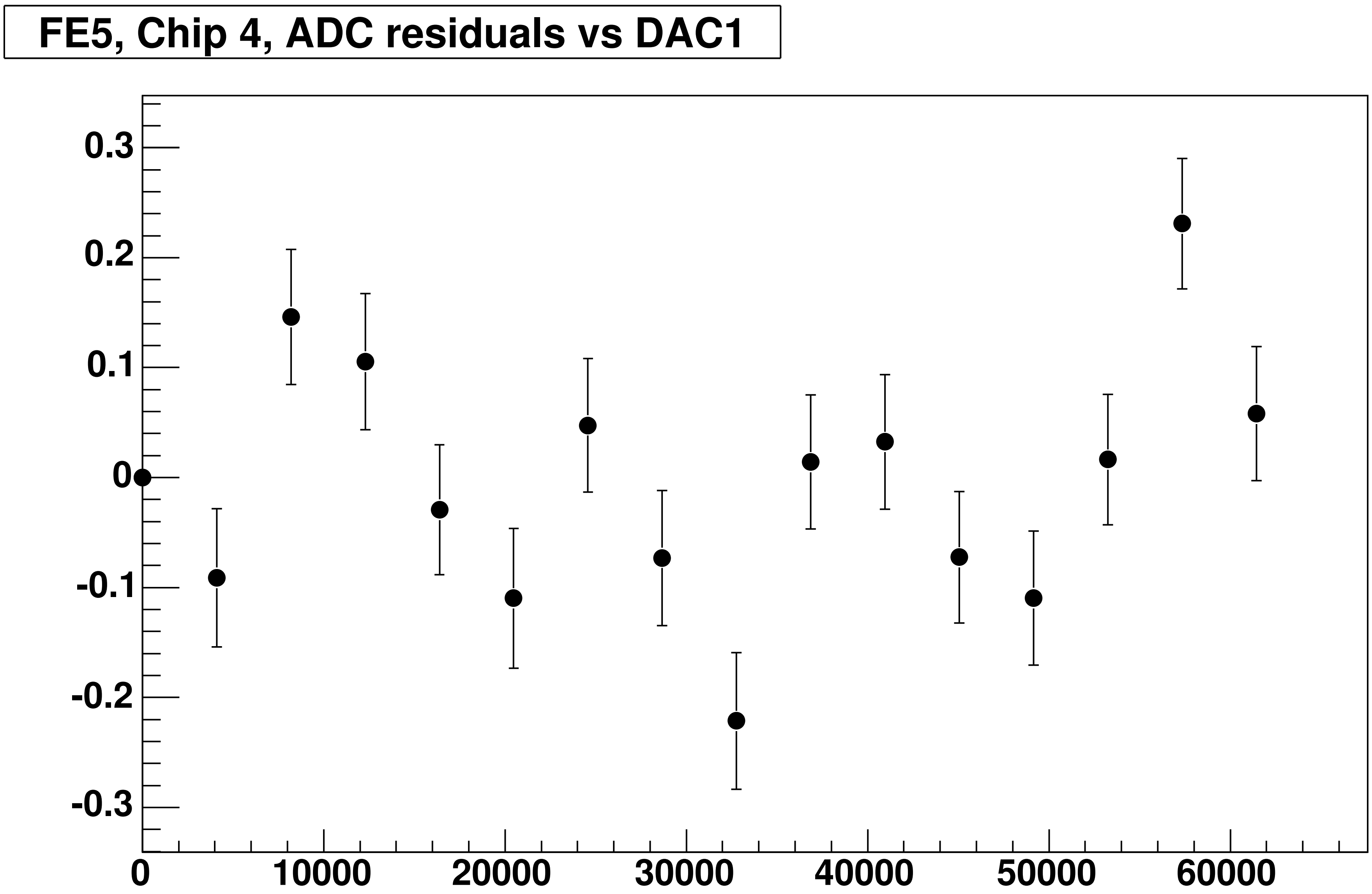


FE5, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

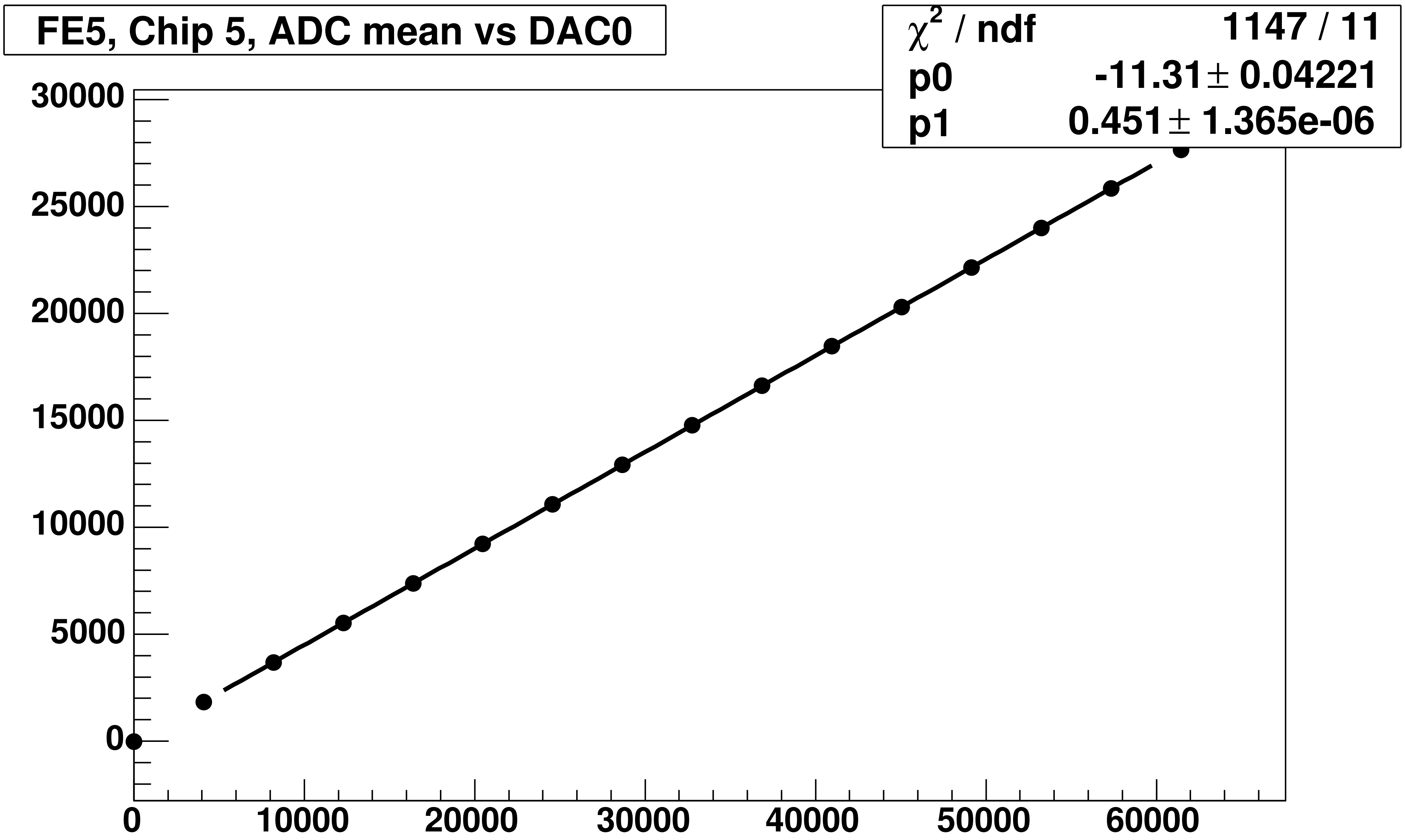


FE5, Chip 4, ADC mean vs DAC1
χ^2 / ndf 46.83 / 11
p0 -10.51 ± 0.03993
p1 -2.364e-06 ± 1.095e-06
-10.3
-10.4
-10.5
-10.6
-10.7
-10.8
-10.9
0
10000
20000
30000
40000
50000
60000

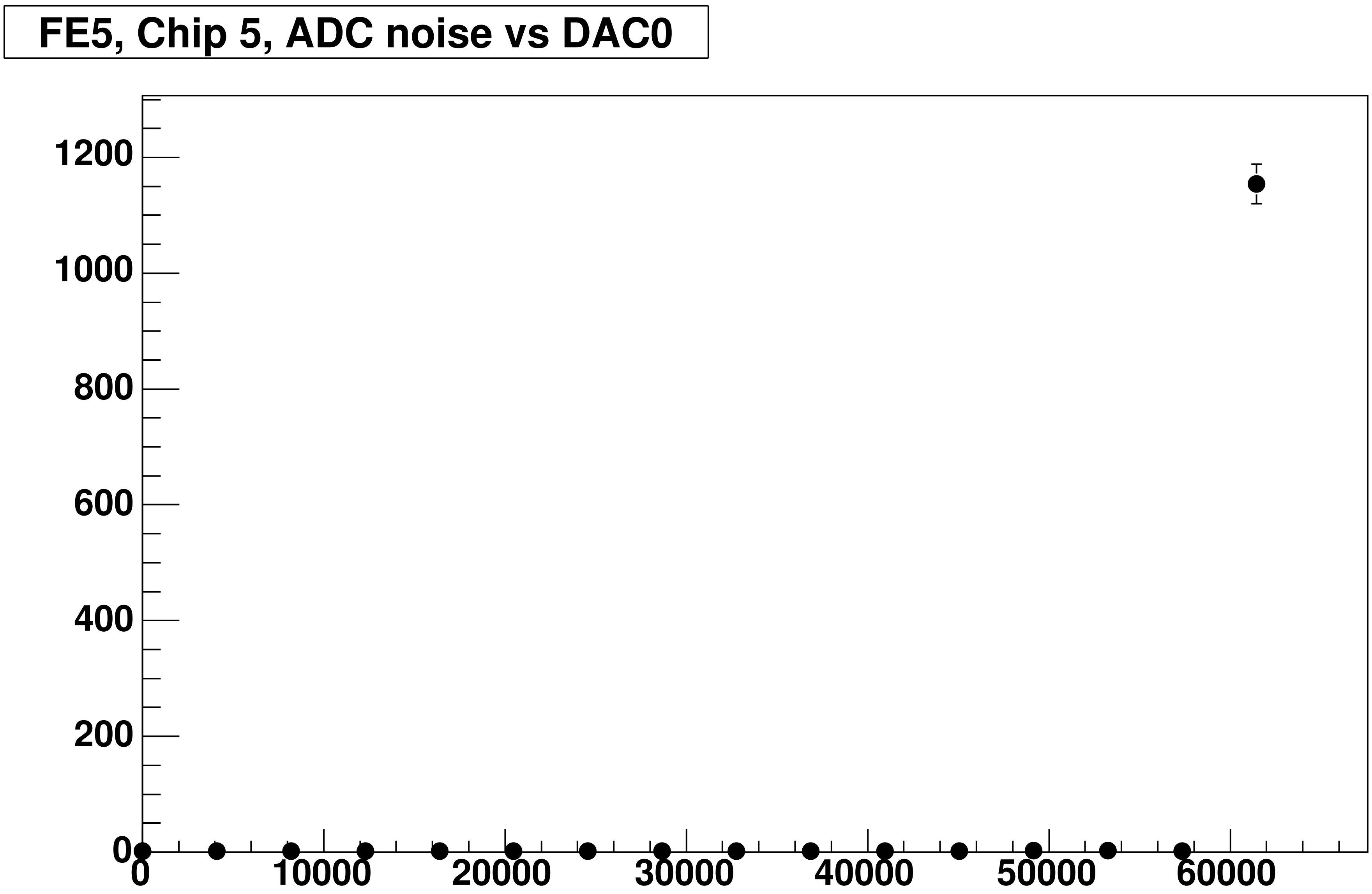

FE5, Chip 4, ADC noise vs DAC1
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
0
10000
20000
30000
40000
50000
60000

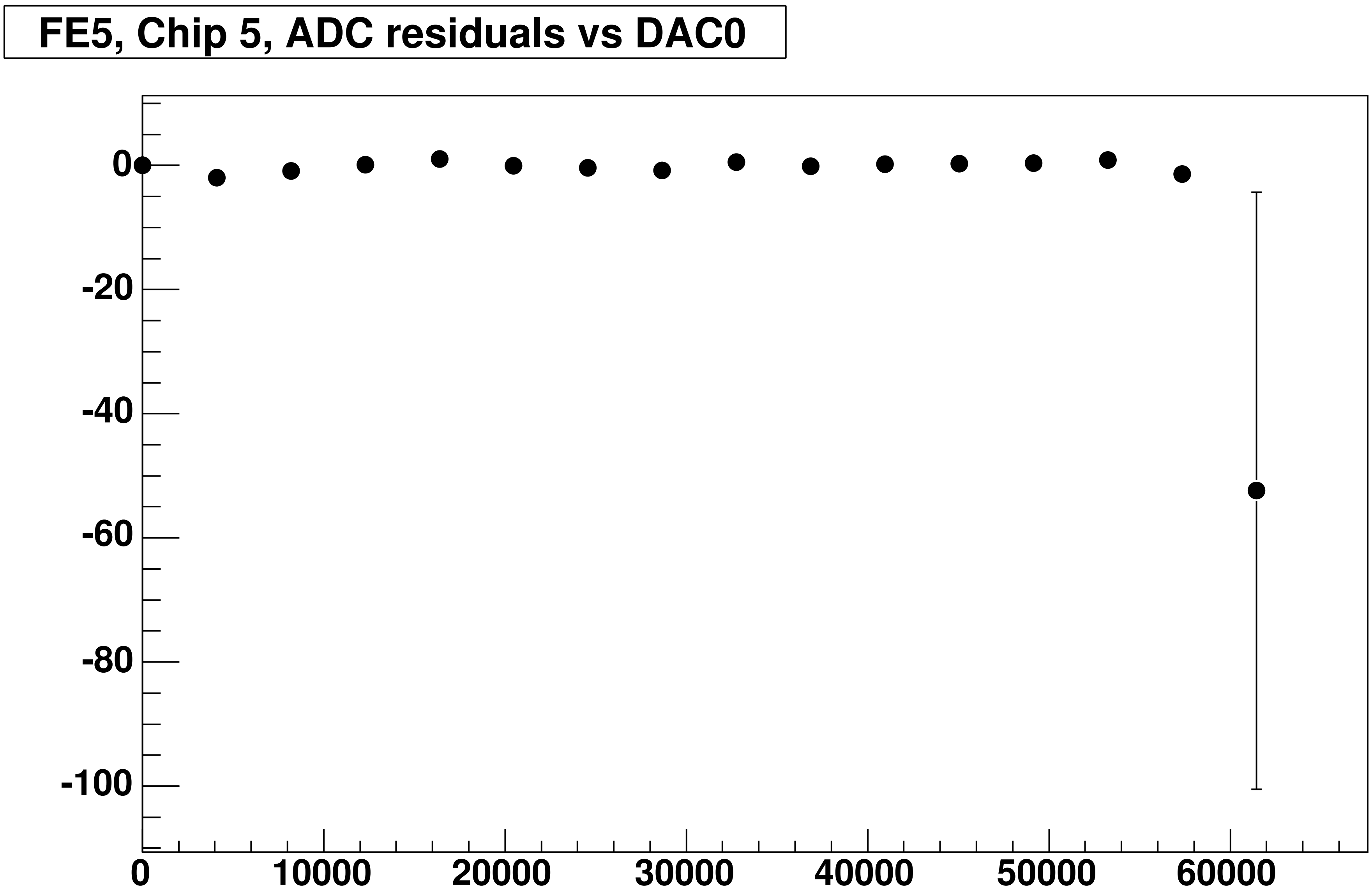


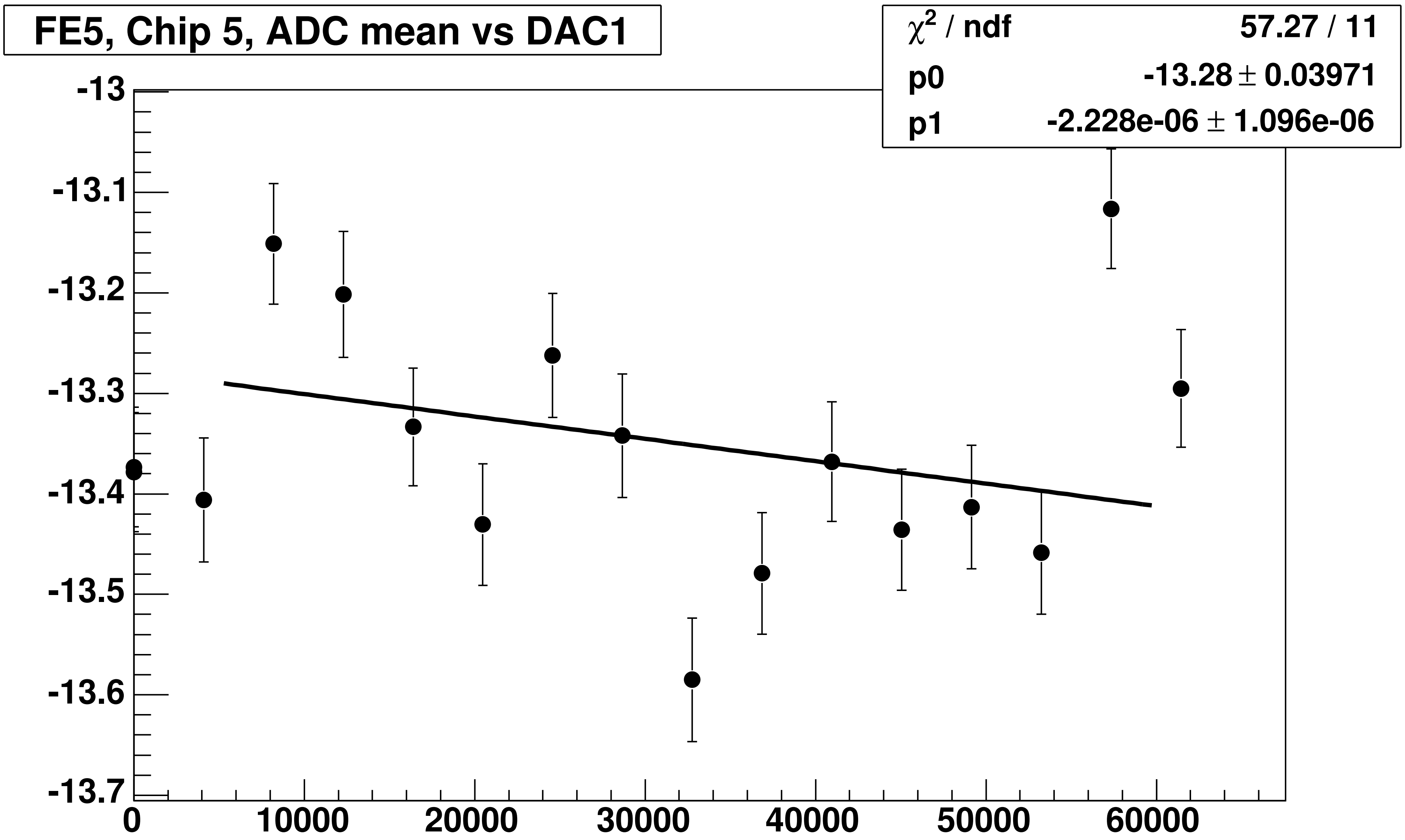
FE5, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



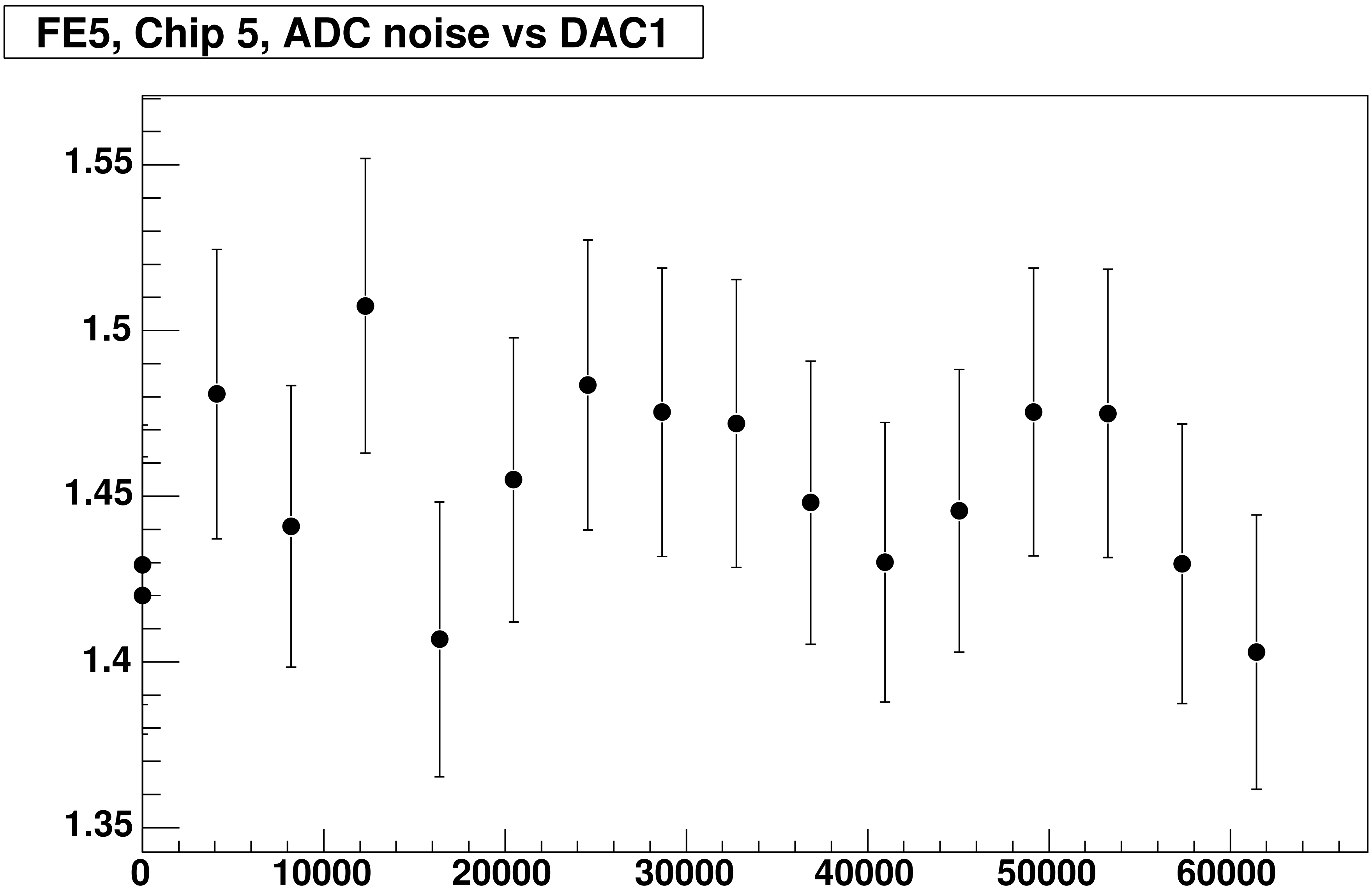
FE5, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1147 / 11
p0 -11.31 ± 0.04221
p1 0.451 ± 1.365e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

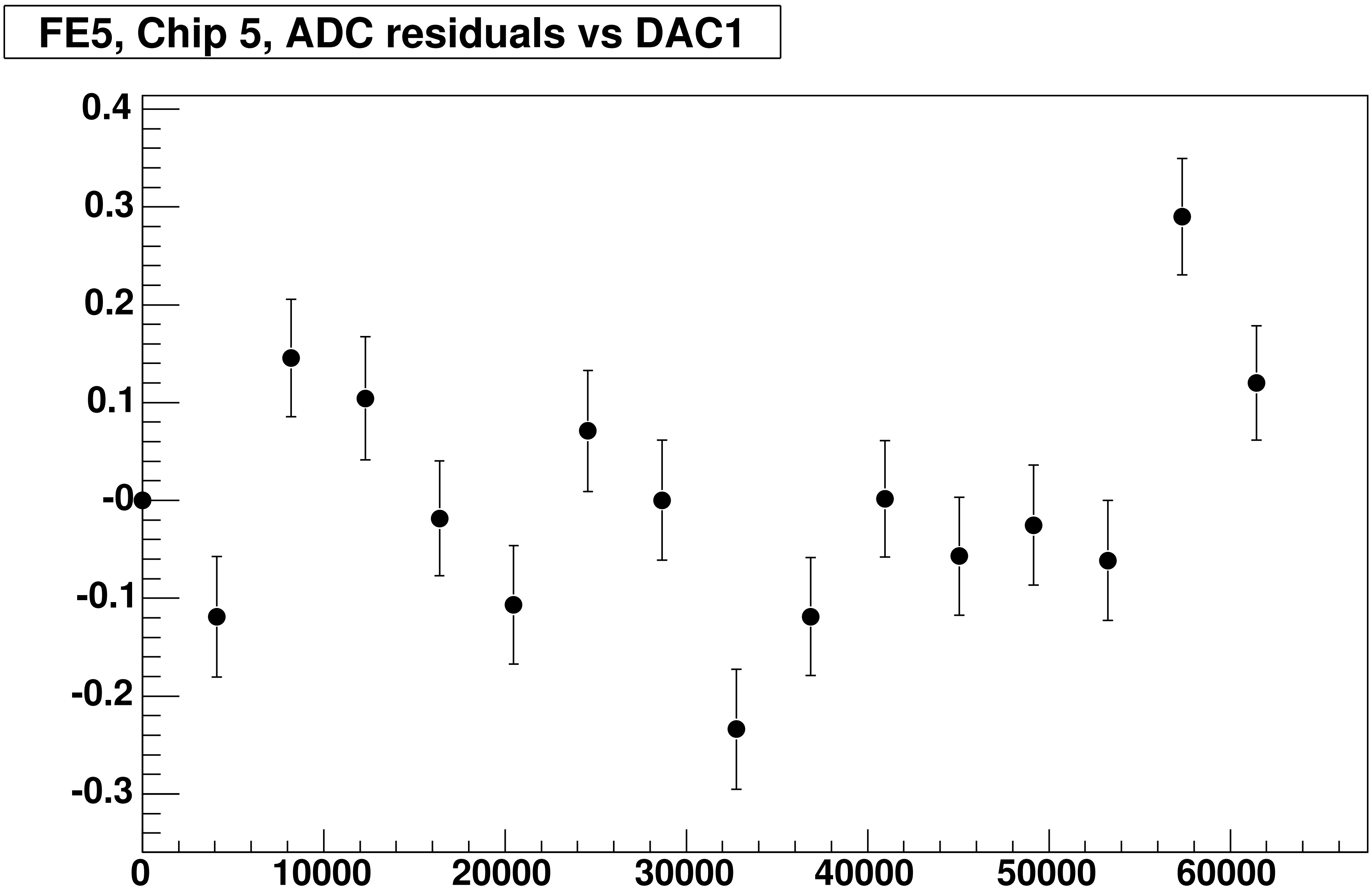

FE5, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



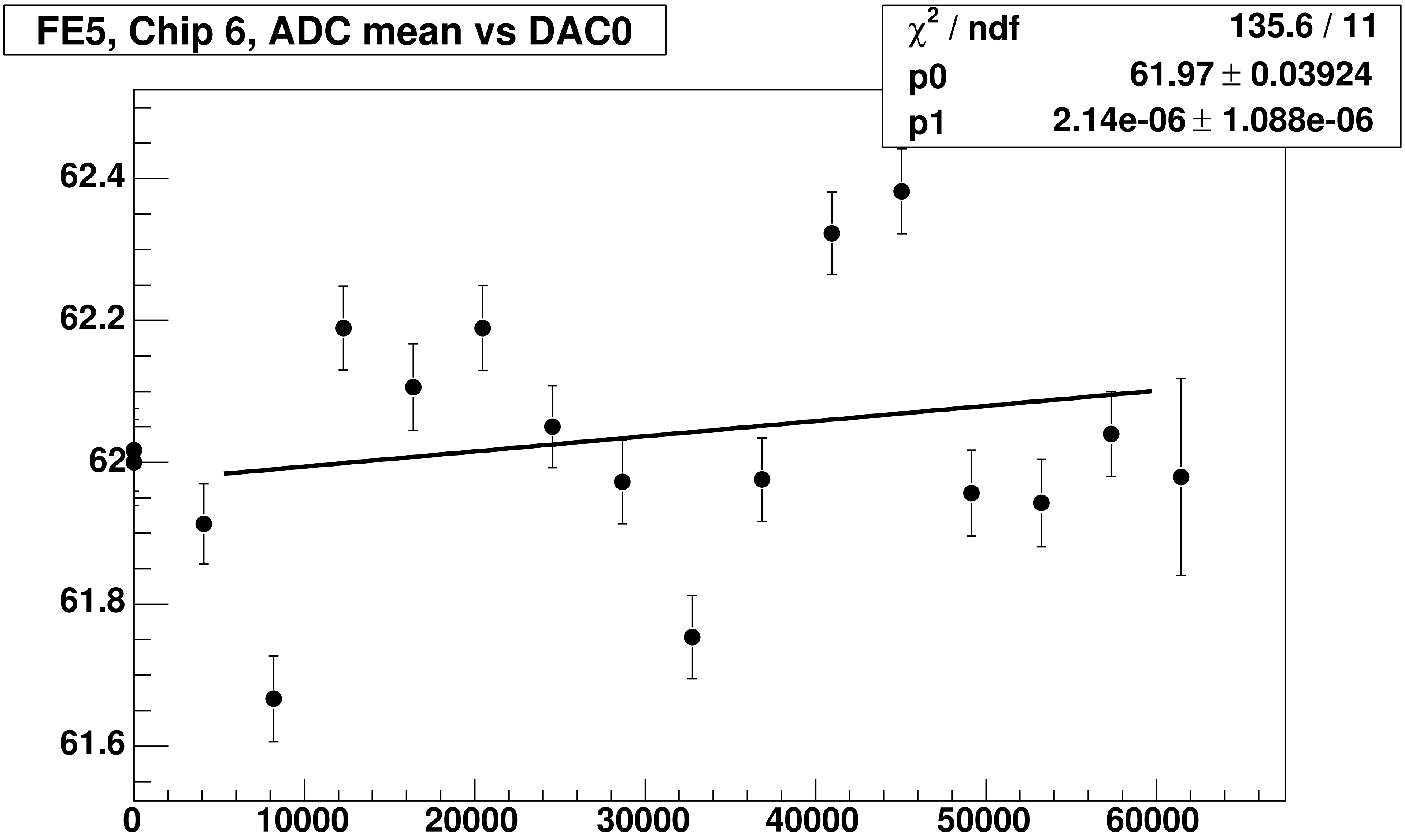
FE5, Chip 5, ADC mean vs DAC1
χ^2 / ndf 57.27 / 11
p0 -13.28 ± 0.03971
p1 -2.228e-06 ± 1.096e-06
-13
-13.1
-13.2
-13.3
-13.4
-13.5
-13.6
-13.7
0
10000
20000
30000
40000
50000
60000

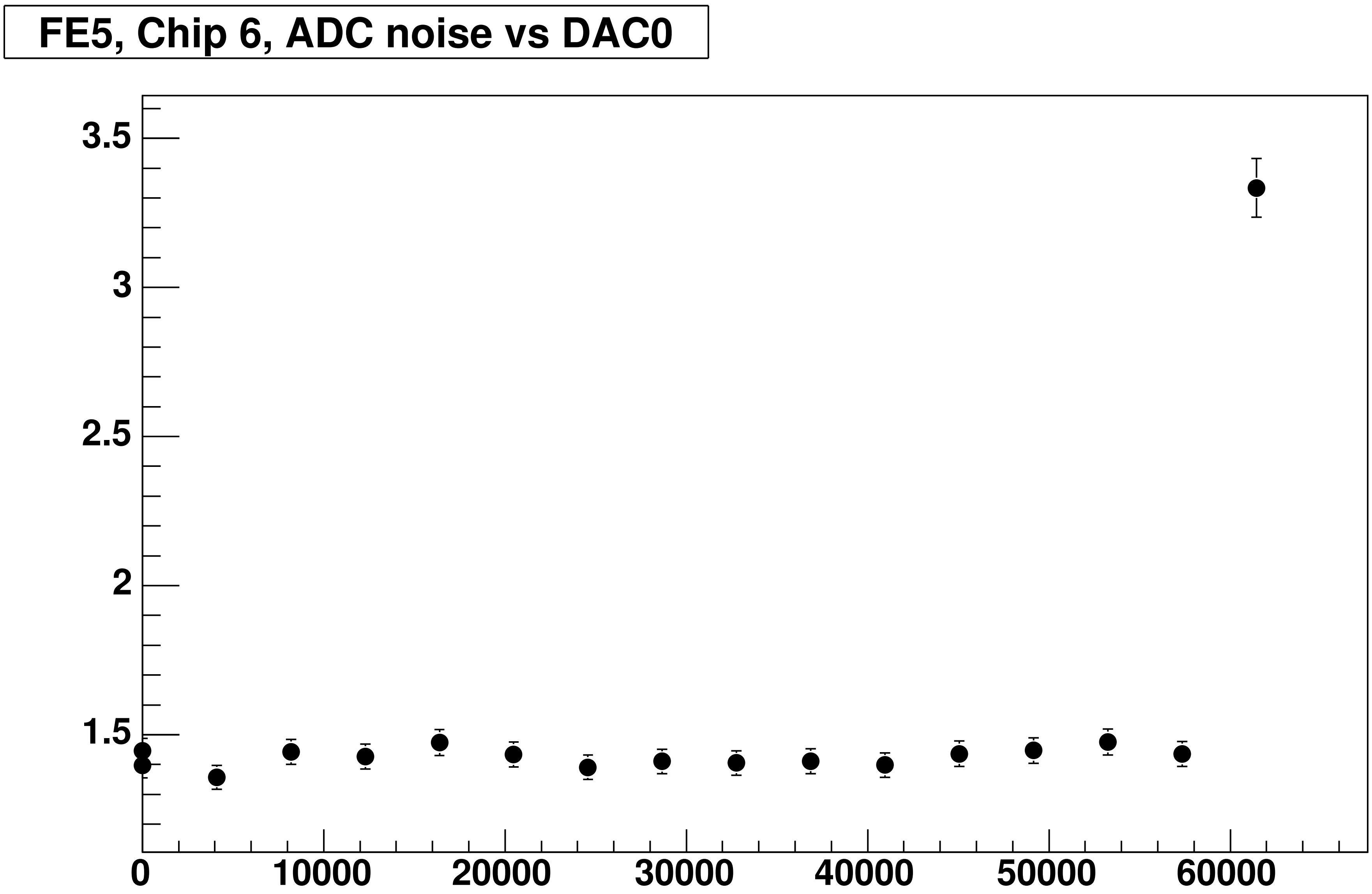


FE5, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

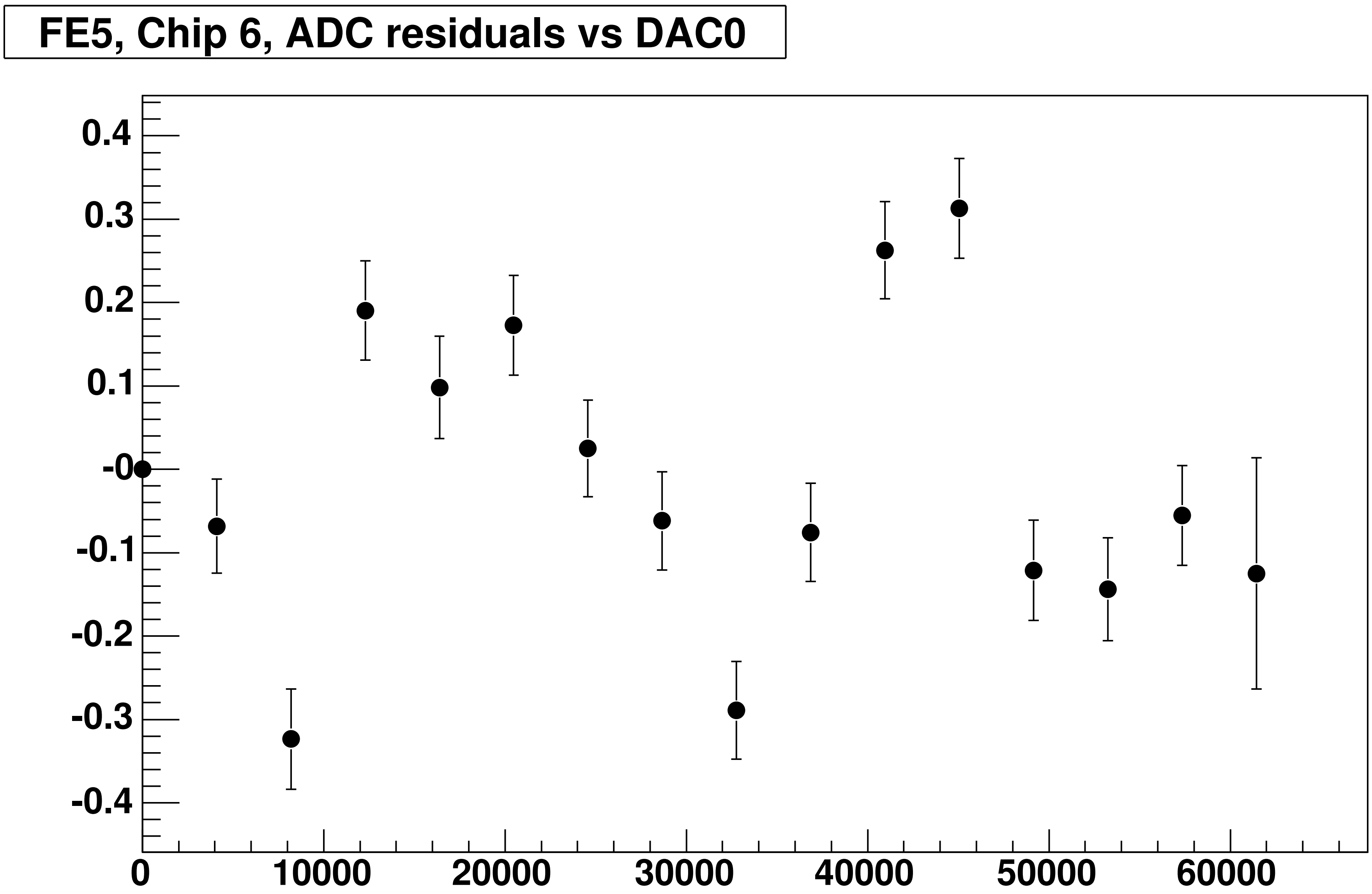


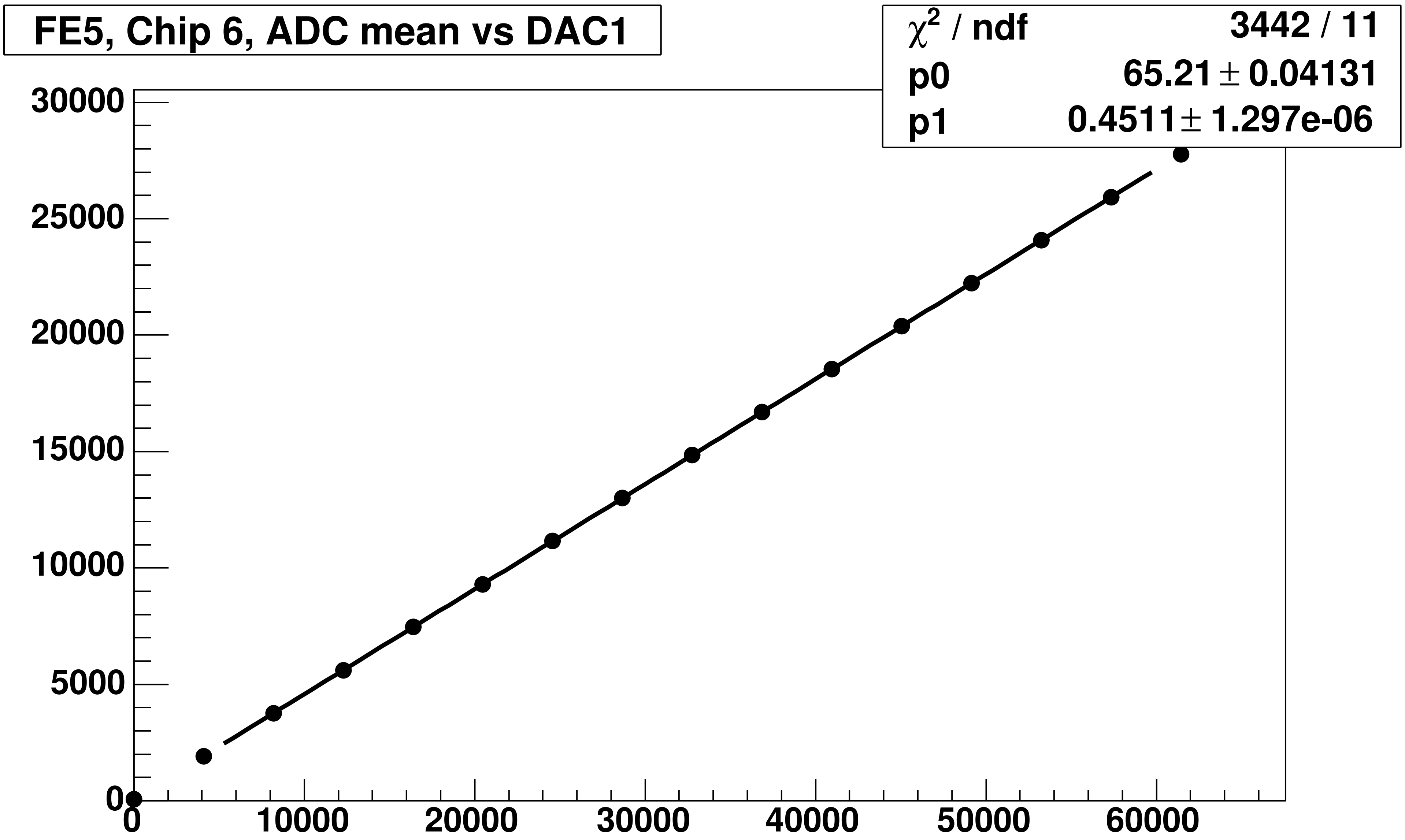
FE5, Chip 5, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE5, Chip 6, ADC mean vs DAC0
χ^2 / ndf 135.6 / 11
p0 61.97 ± 0.03924
p1 2.14e-06 ± 1.088e-06
62.4
62.2
62
61.8
61.6
0
10000
20000
30000
40000
50000
60000

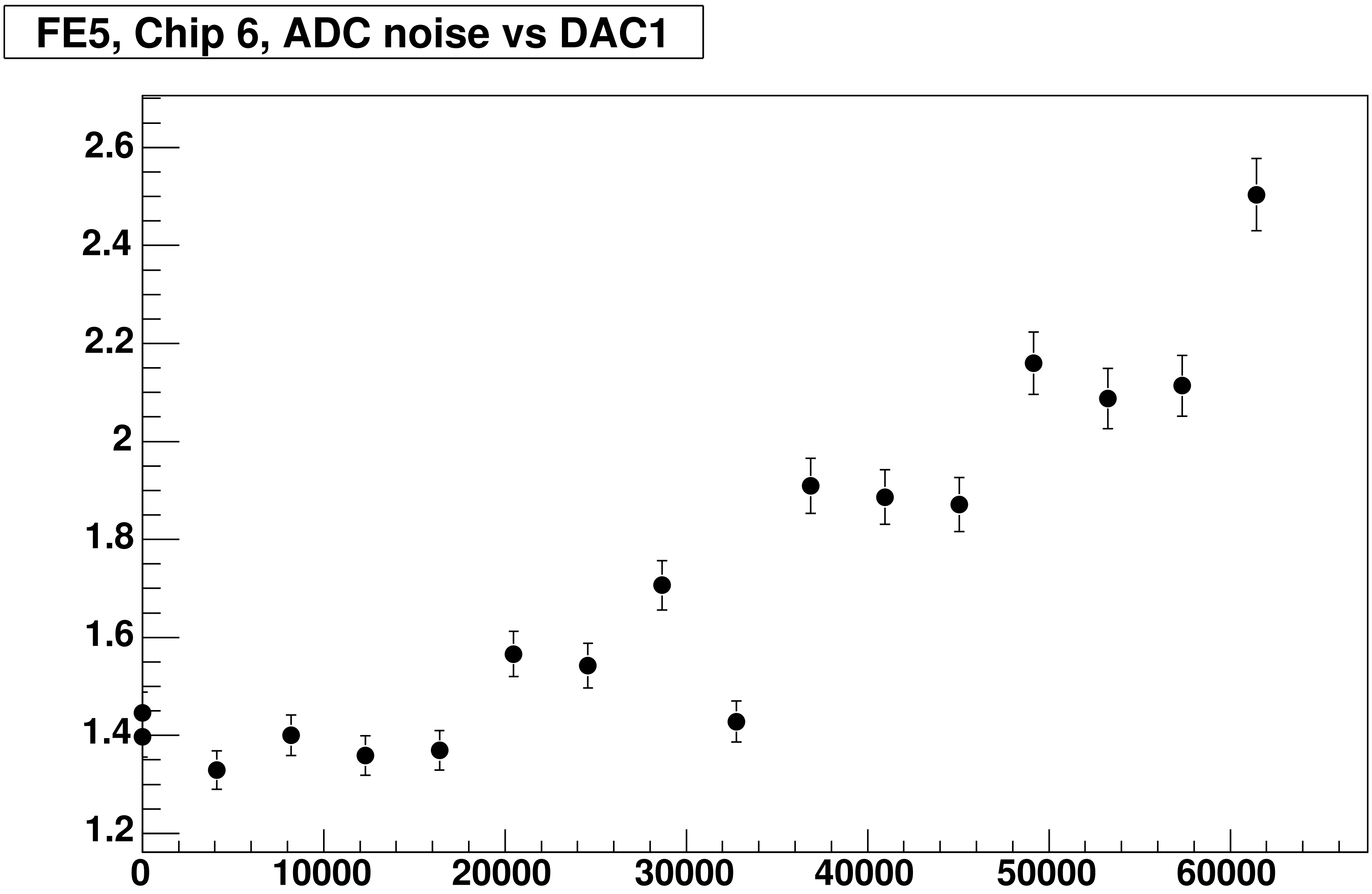


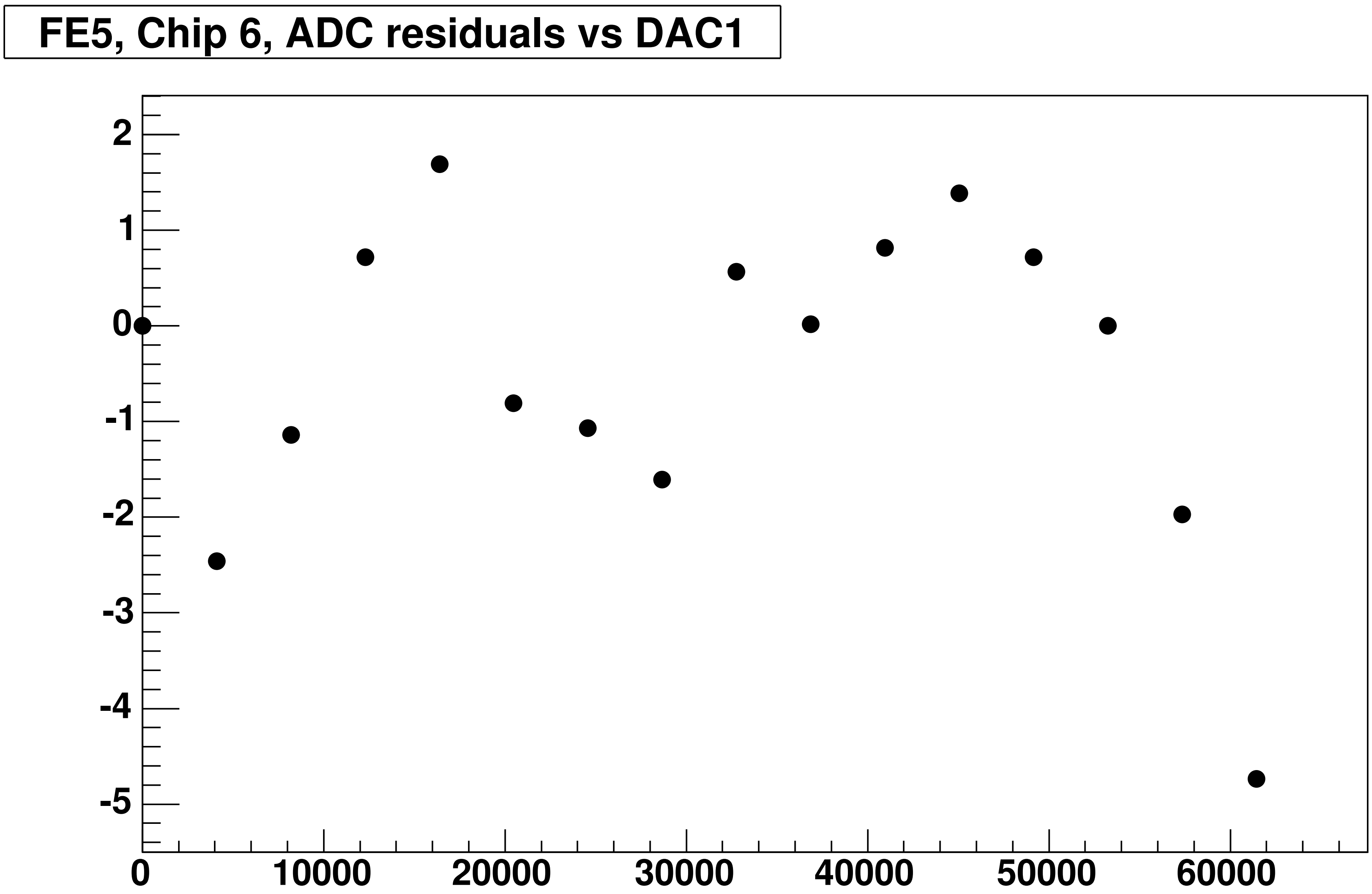
FE5, Chip 6, ADC noise vs DAC0
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

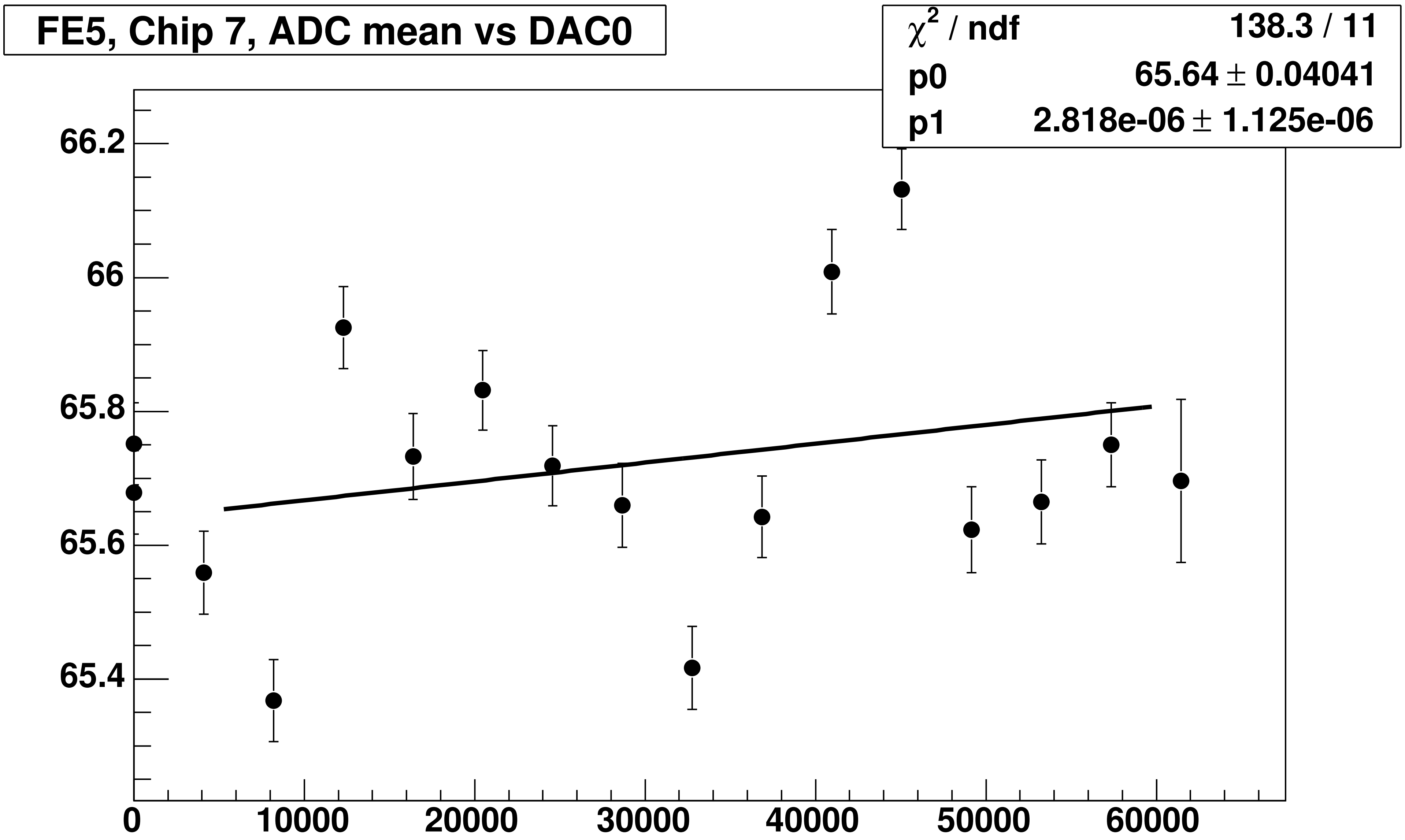

FE5, Chip 6, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



FE5, Chip 6, ADC mean vs DAC1
χ2 / ndf 3442 / 11
p0 65.21 ± 0.04131
p1 0.4511 ± 1.297e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

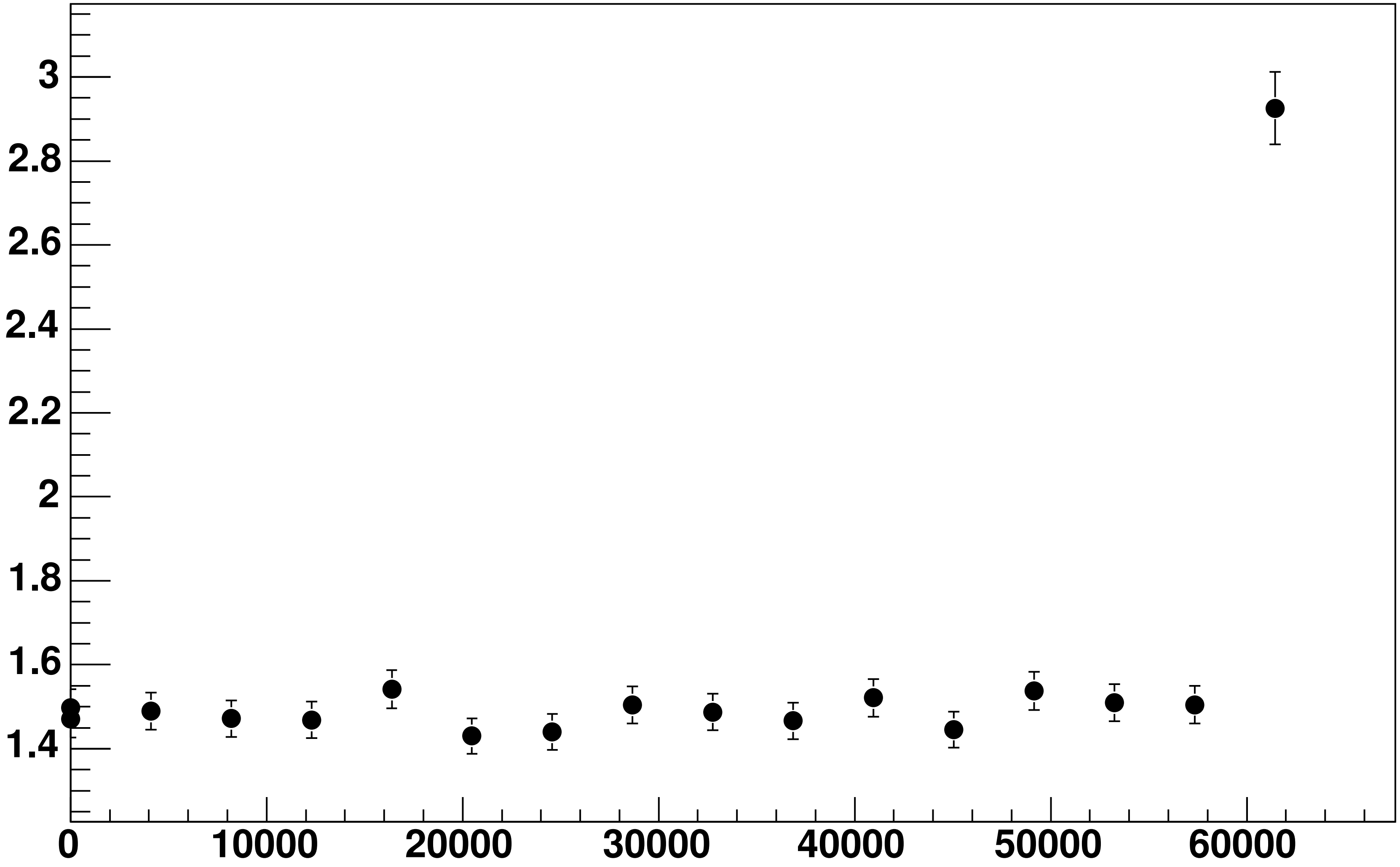

FE5, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

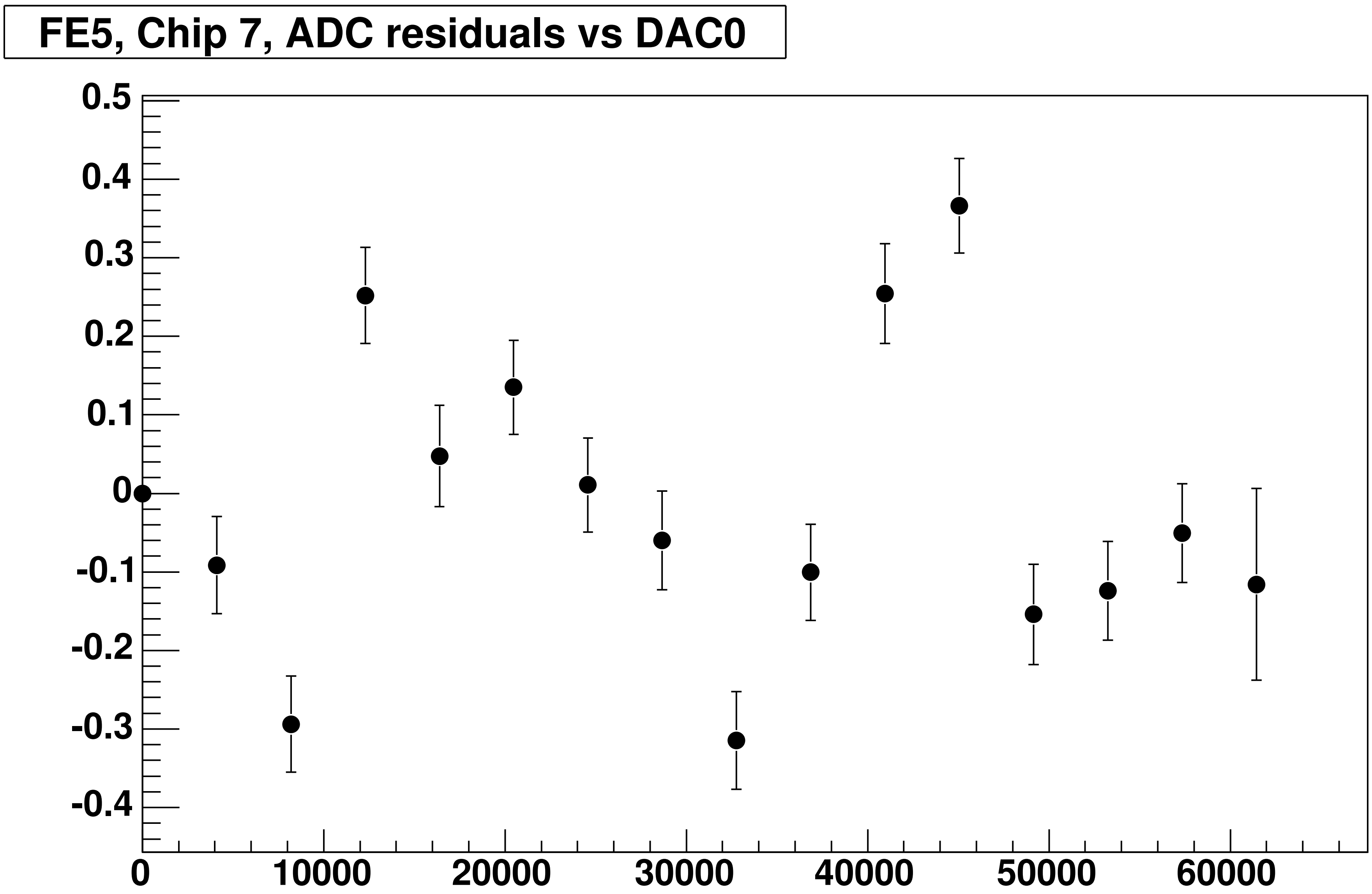

FE5, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

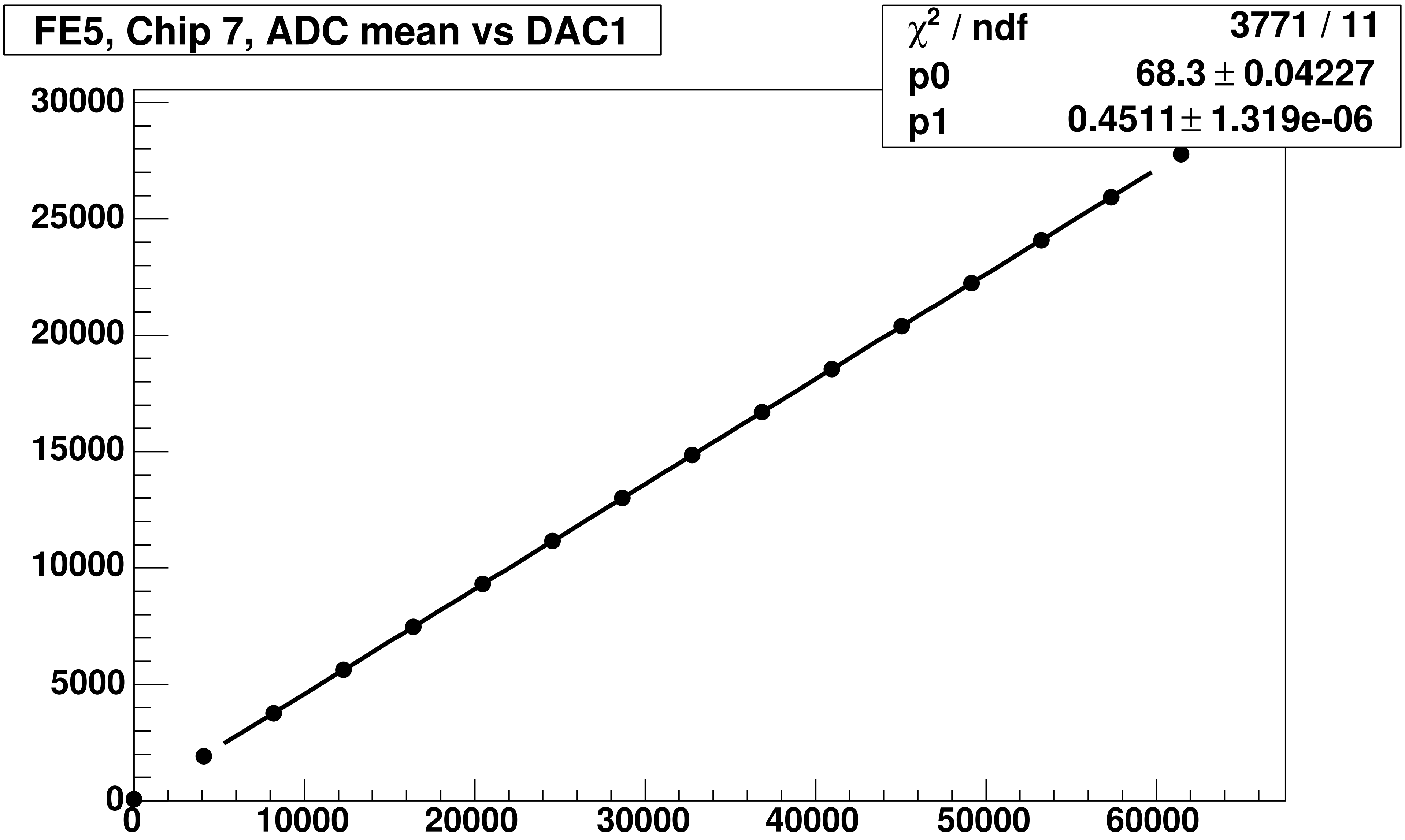


FE5, Chip 7, ADC mean vs DAC0
χ² / ndf 138.3 / 11
p0 65.64 ± 0.04041
p1 2.818e-06 ± 1.125e-06
66.2
66
65.8
65.6
65.4
0
10000
20000
30000
40000
50000
60000

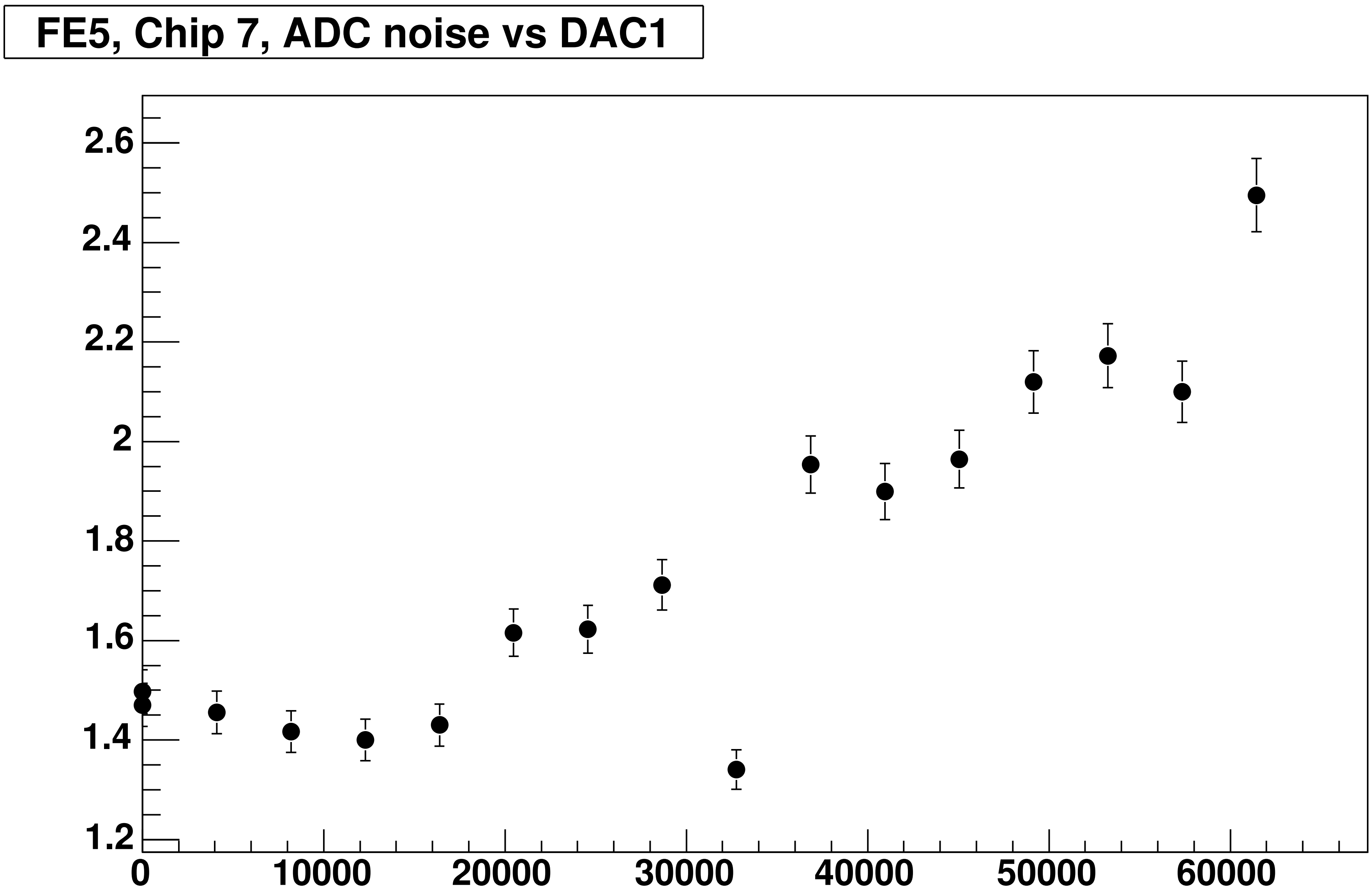
FE5, Chip 7, ADC noise vs DAC0

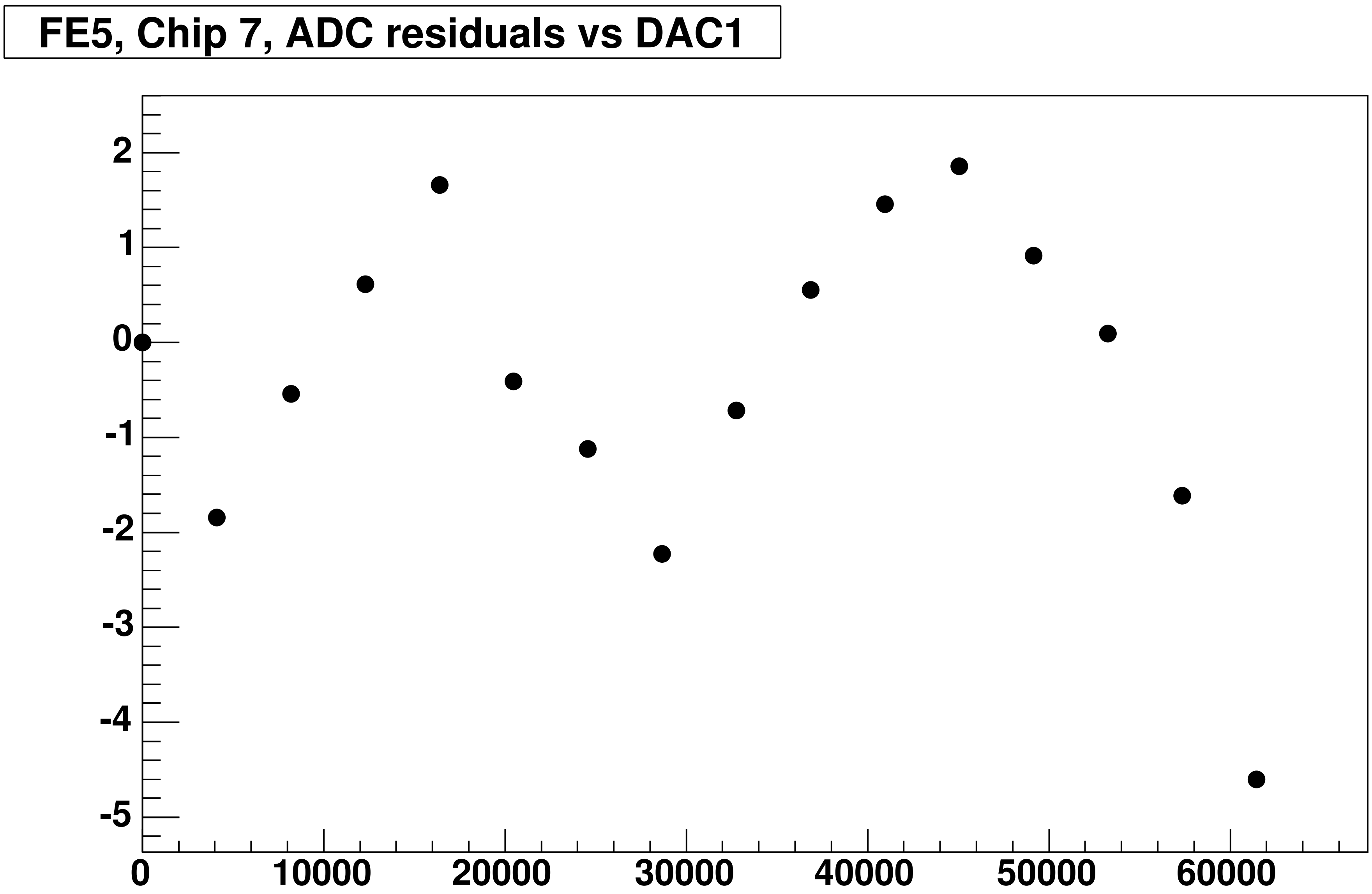



FE5, Chip 7, ADC residuals vs DAC0
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

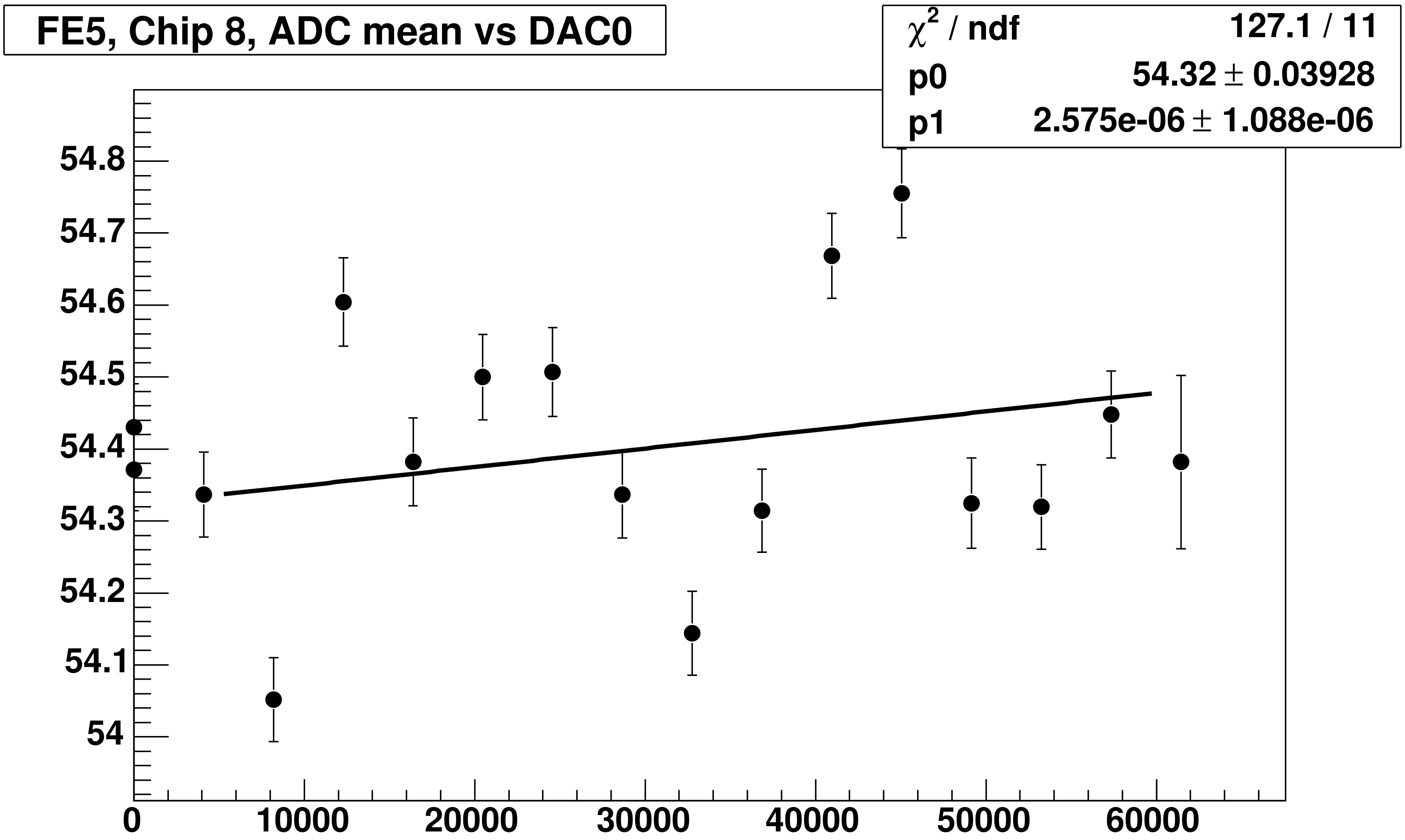


FE5, Chip 7, ADC mean vs DAC1
χ^2 / ndf 3771 / 11
p0 68.3 ± 0.04227
p1 0.4511 ± 1.319e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

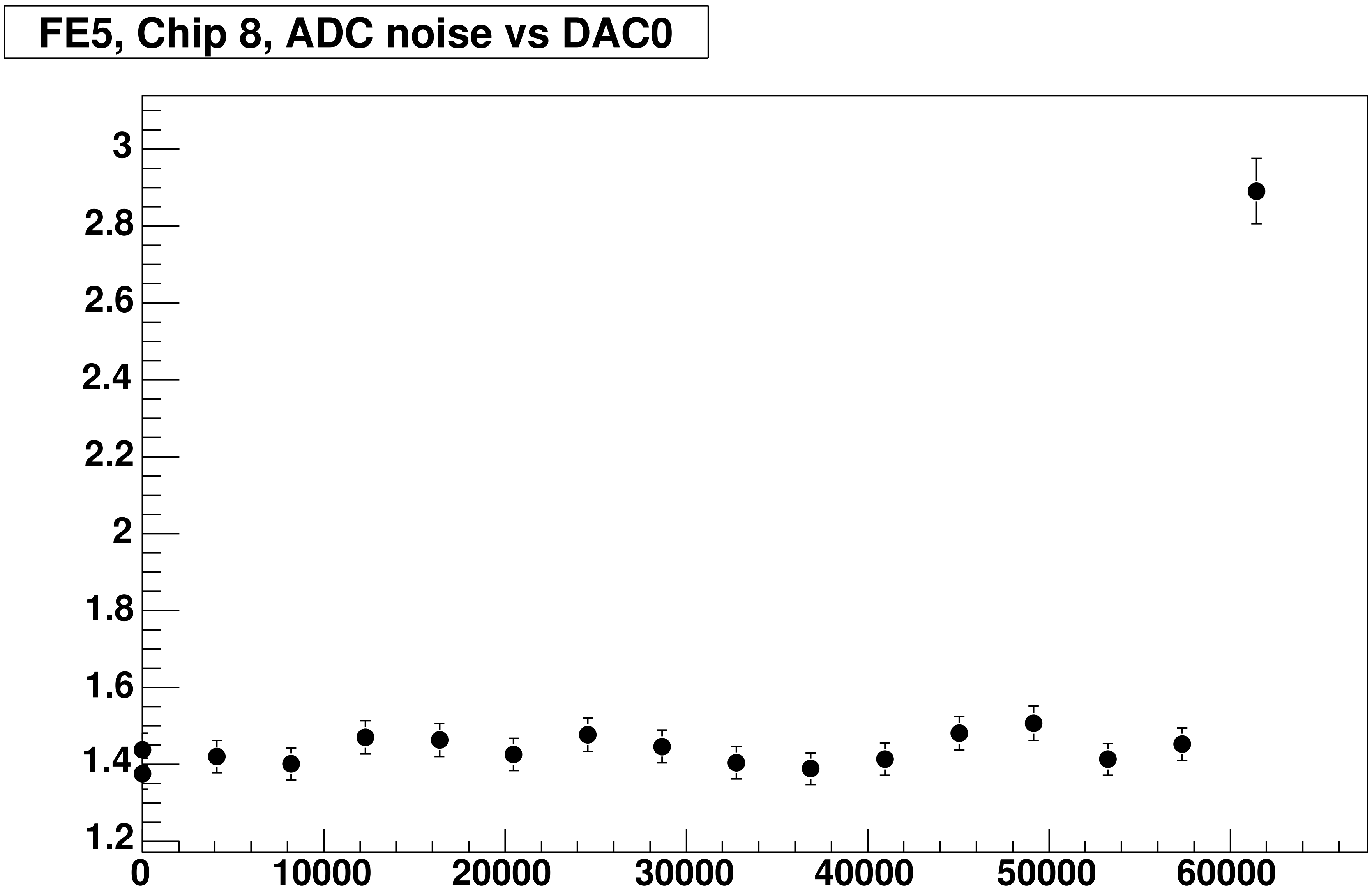

FE5, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



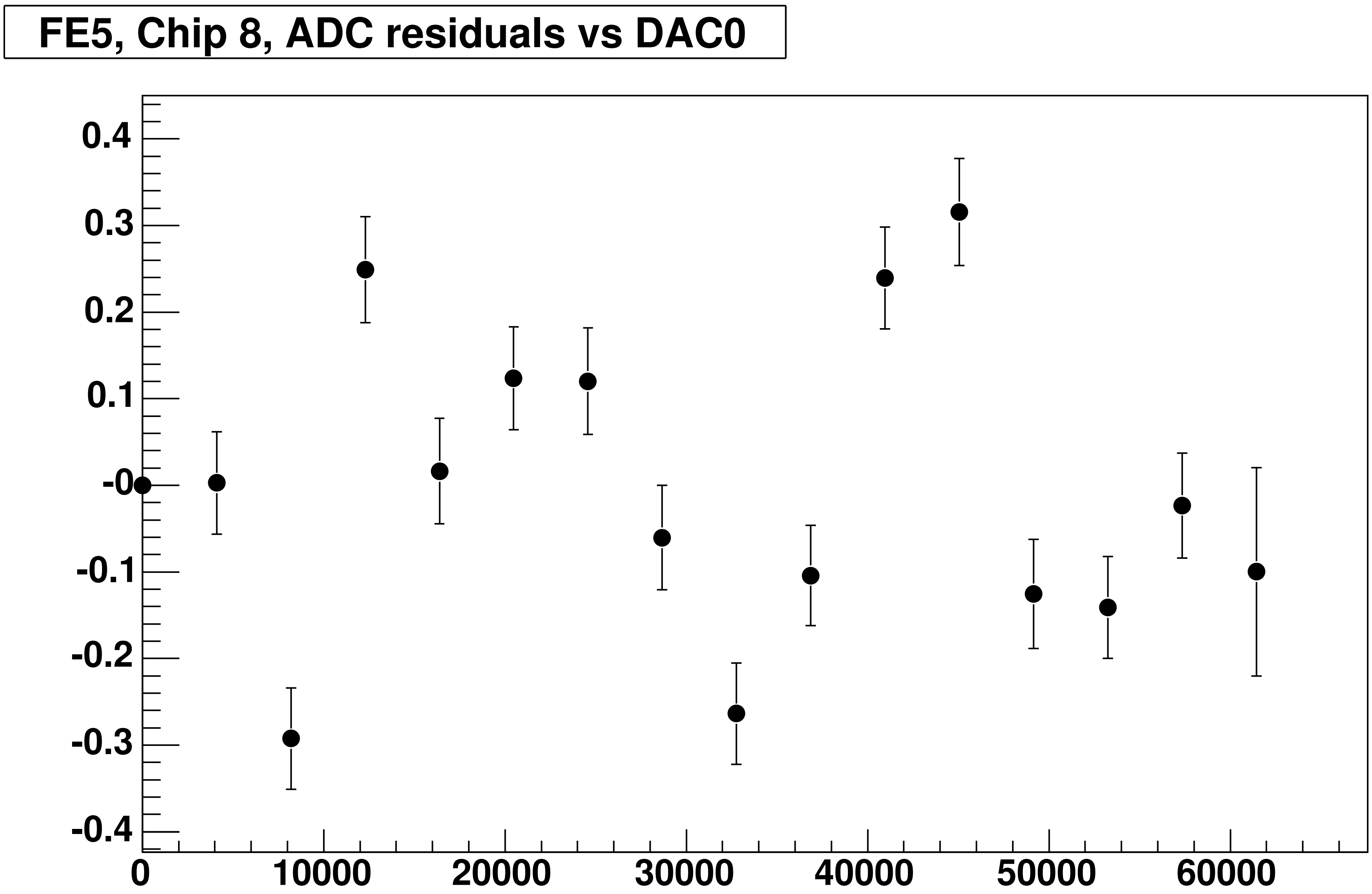
FE5, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

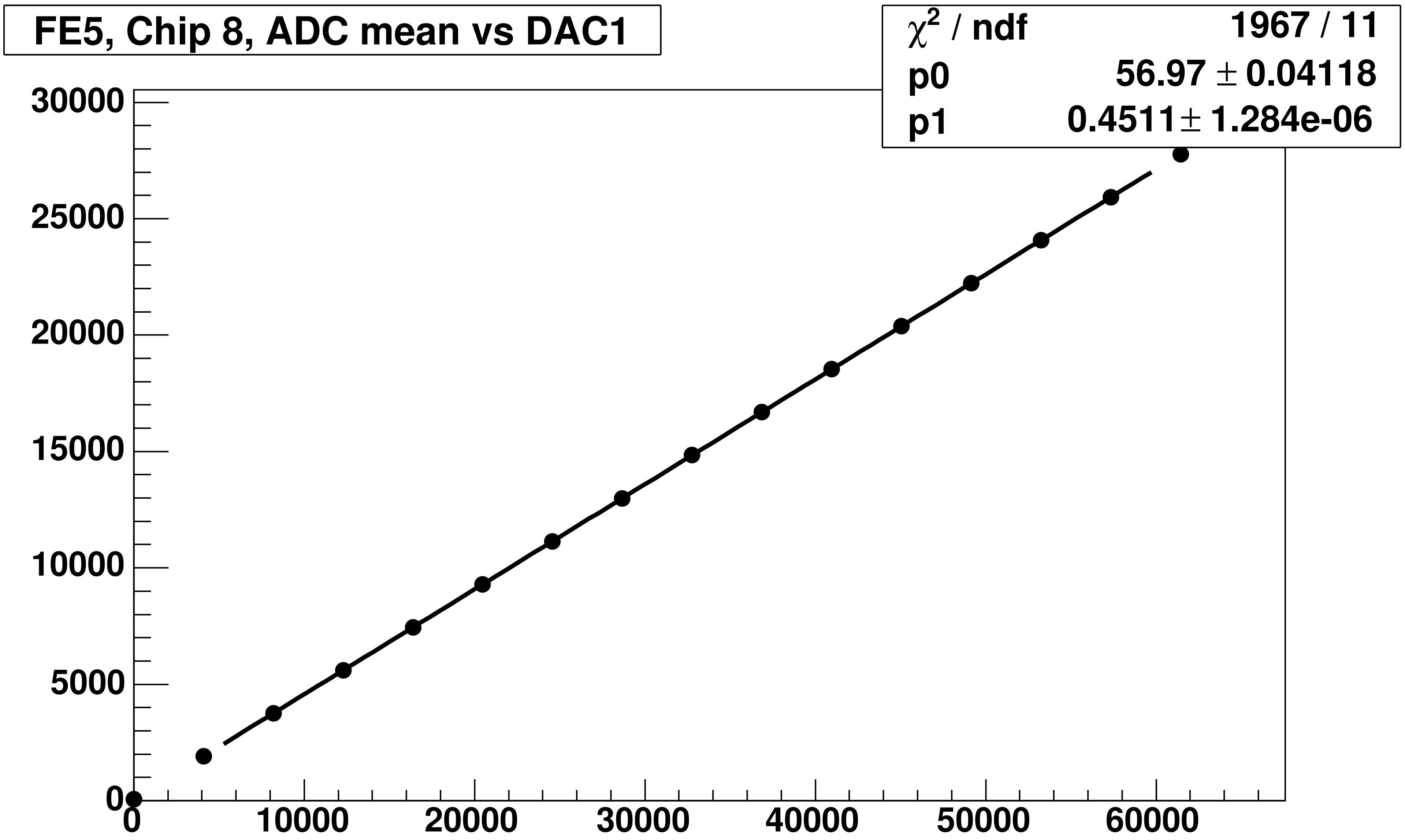


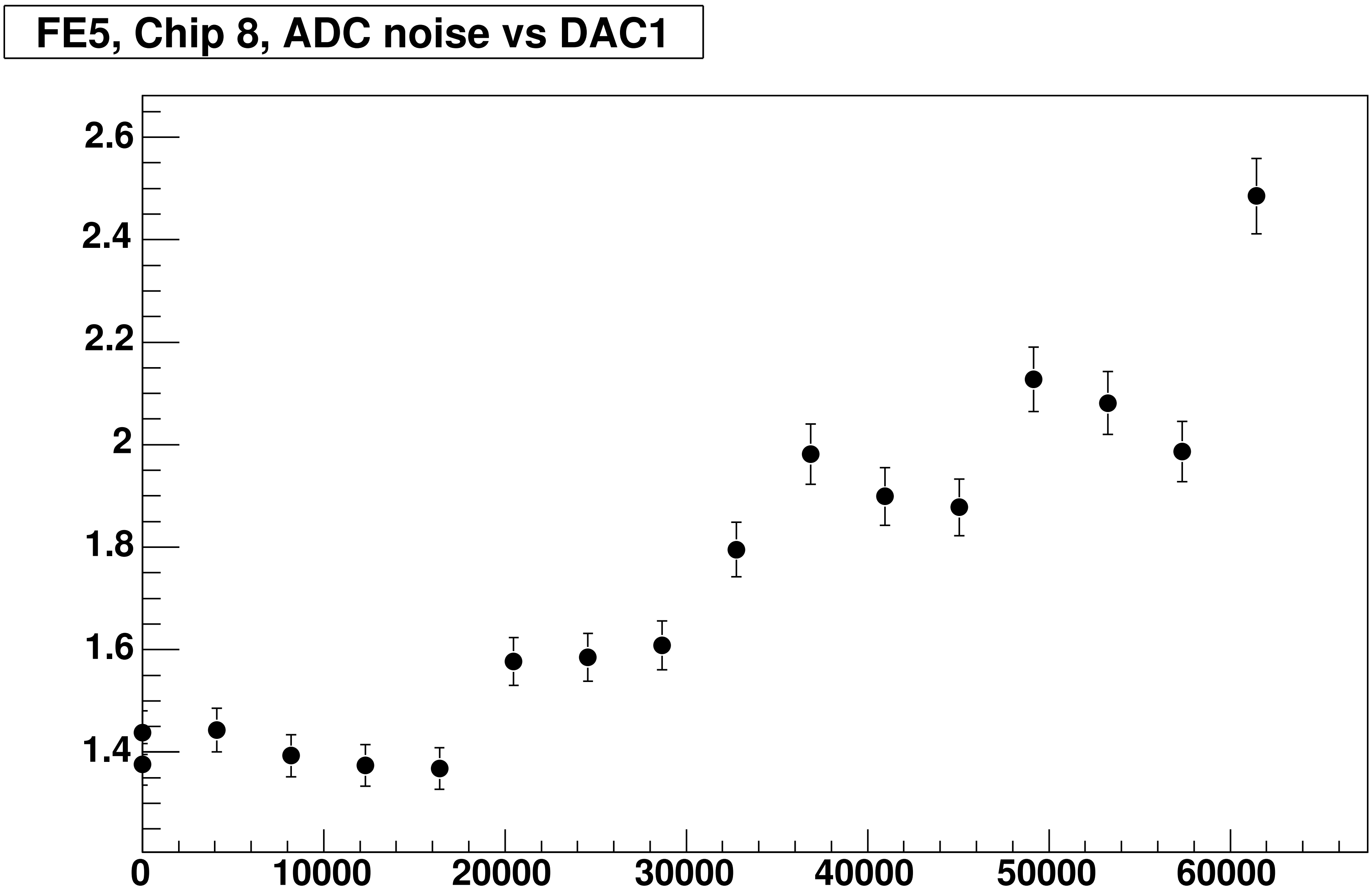
FE5, Chip 8, ADC mean vs DAC0
χ^2 / ndf 127.1 / 11
p0 54.32 ± 0.03928
p1 2.575e-06 ± 1.088e-06
54.8
54.7
54.6
54.5
54.4
54.3
54.2
54.1
54
0
10000
20000
30000
40000
50000
60000

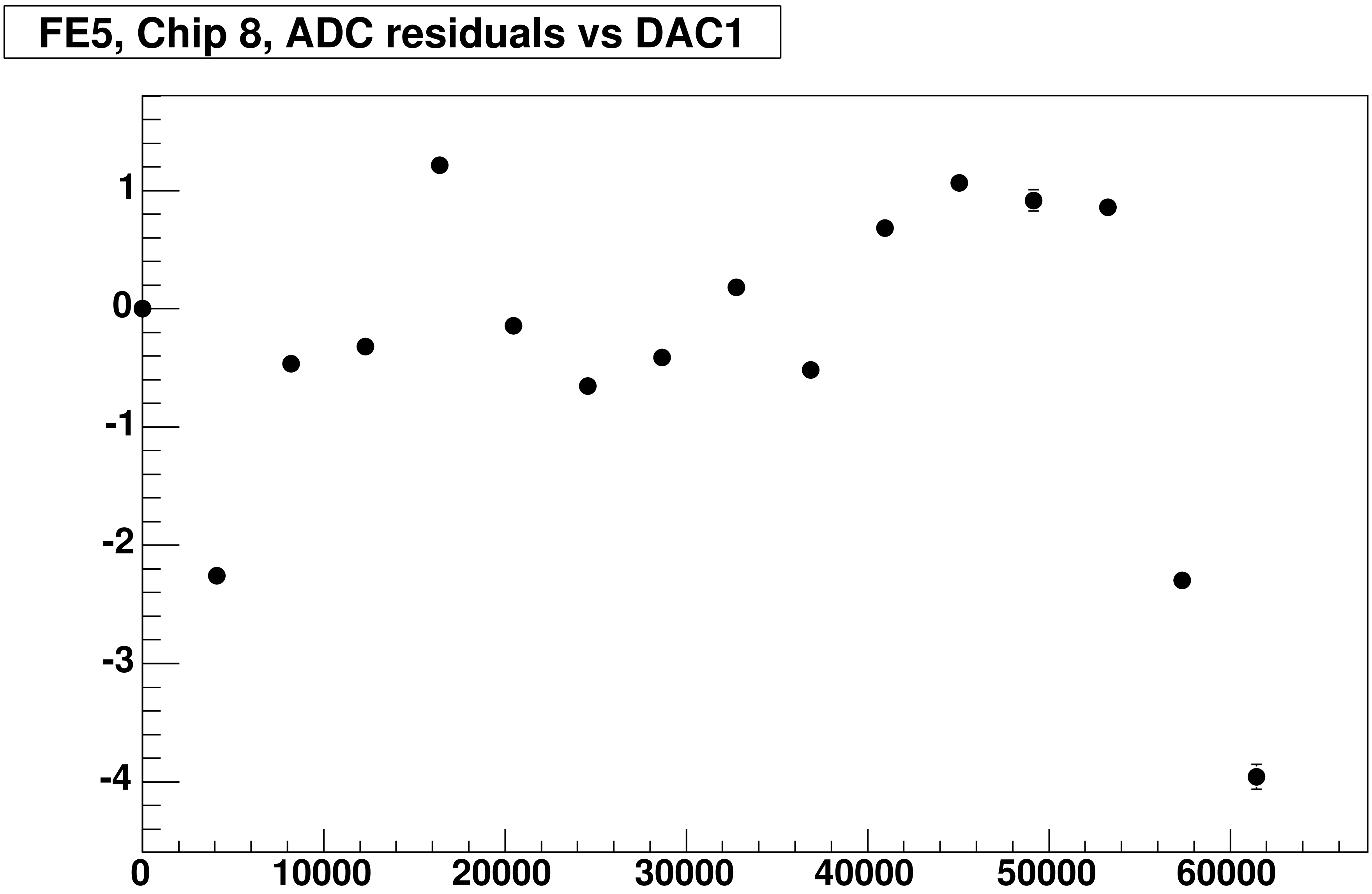


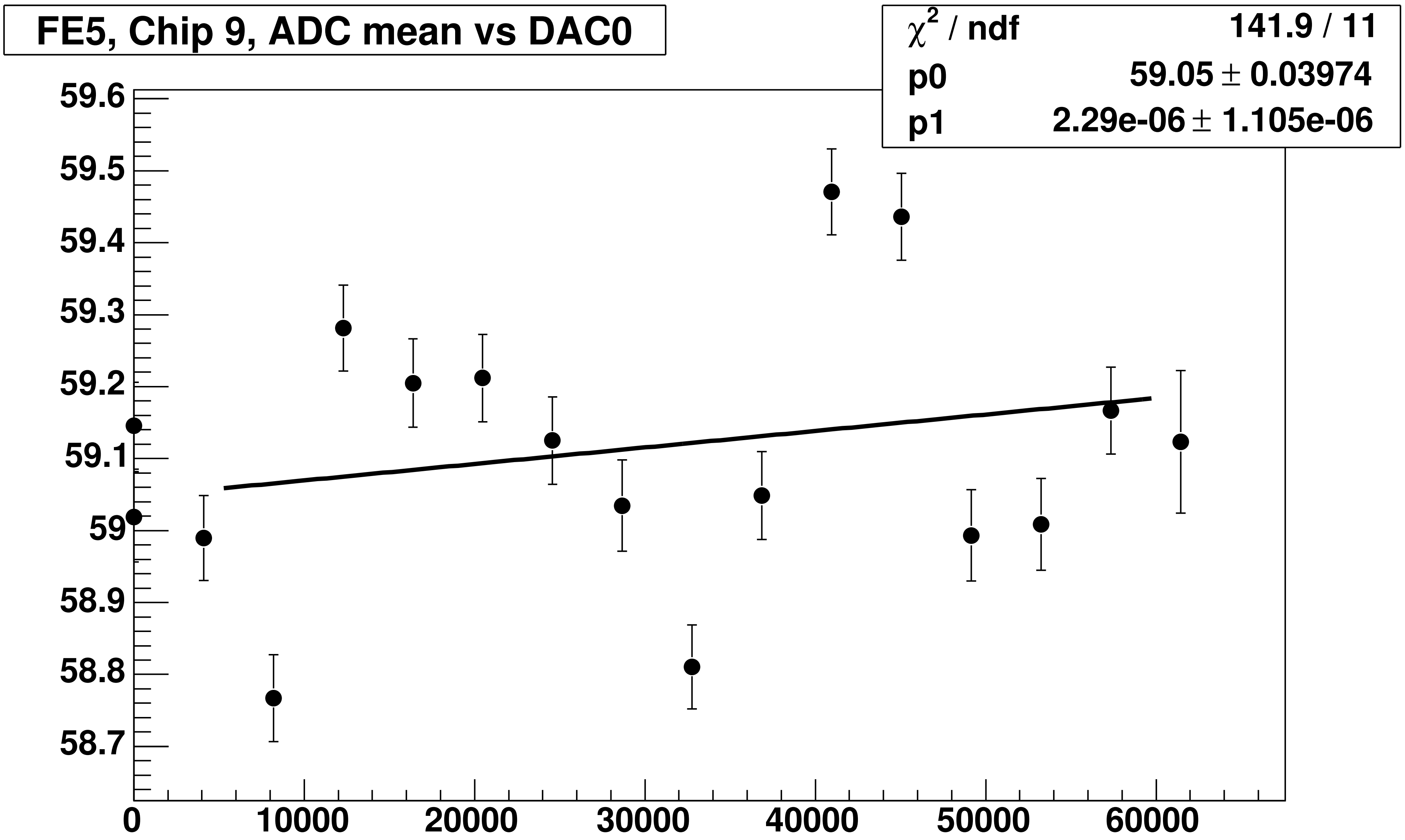
FE5, Chip 8, ADC noise vs DAC0
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

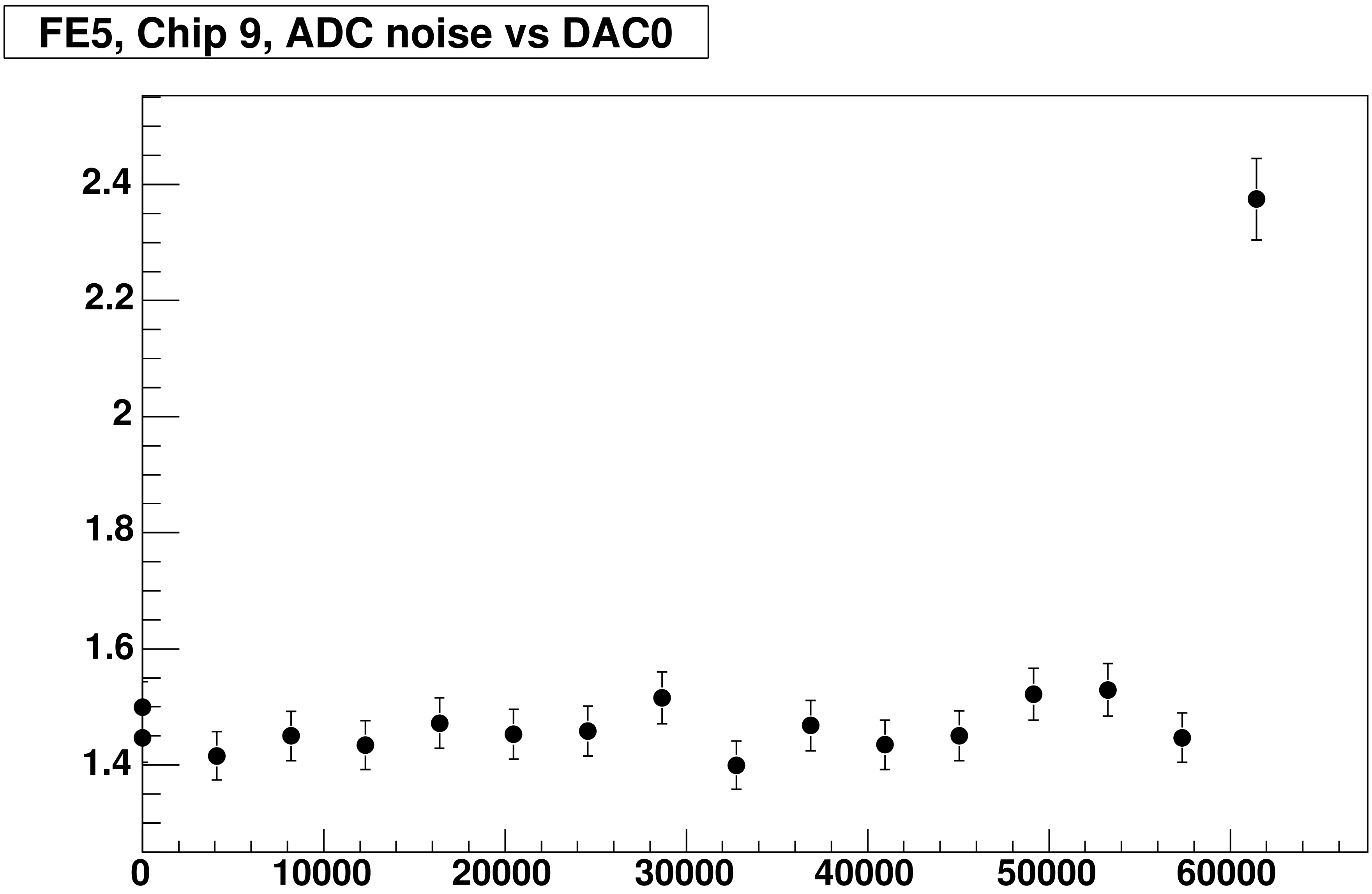

FE5, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1967 / 11
p0 56.97 ± 0.04118
p1 0.4511 ± 1.284e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

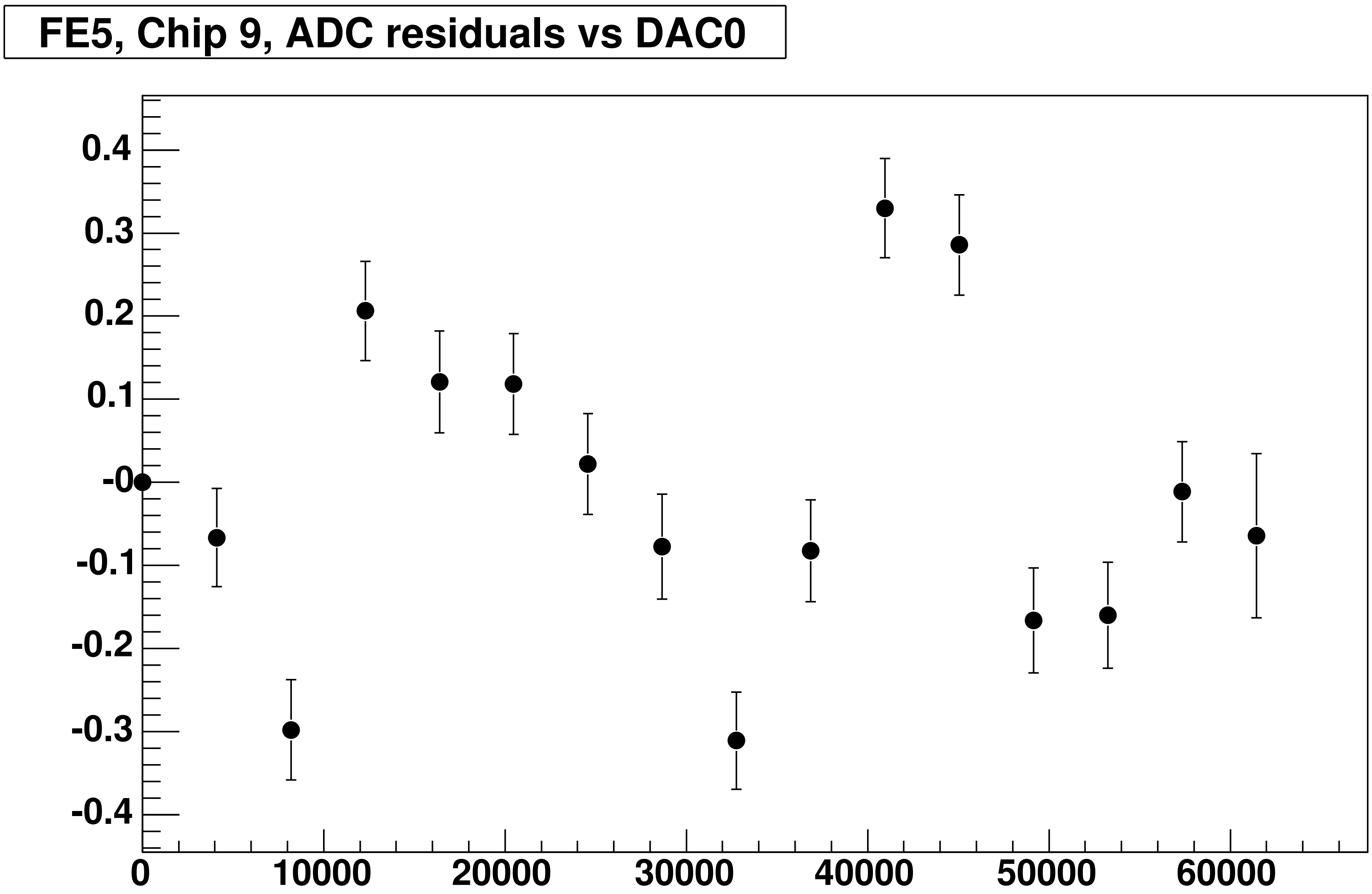

FE5, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

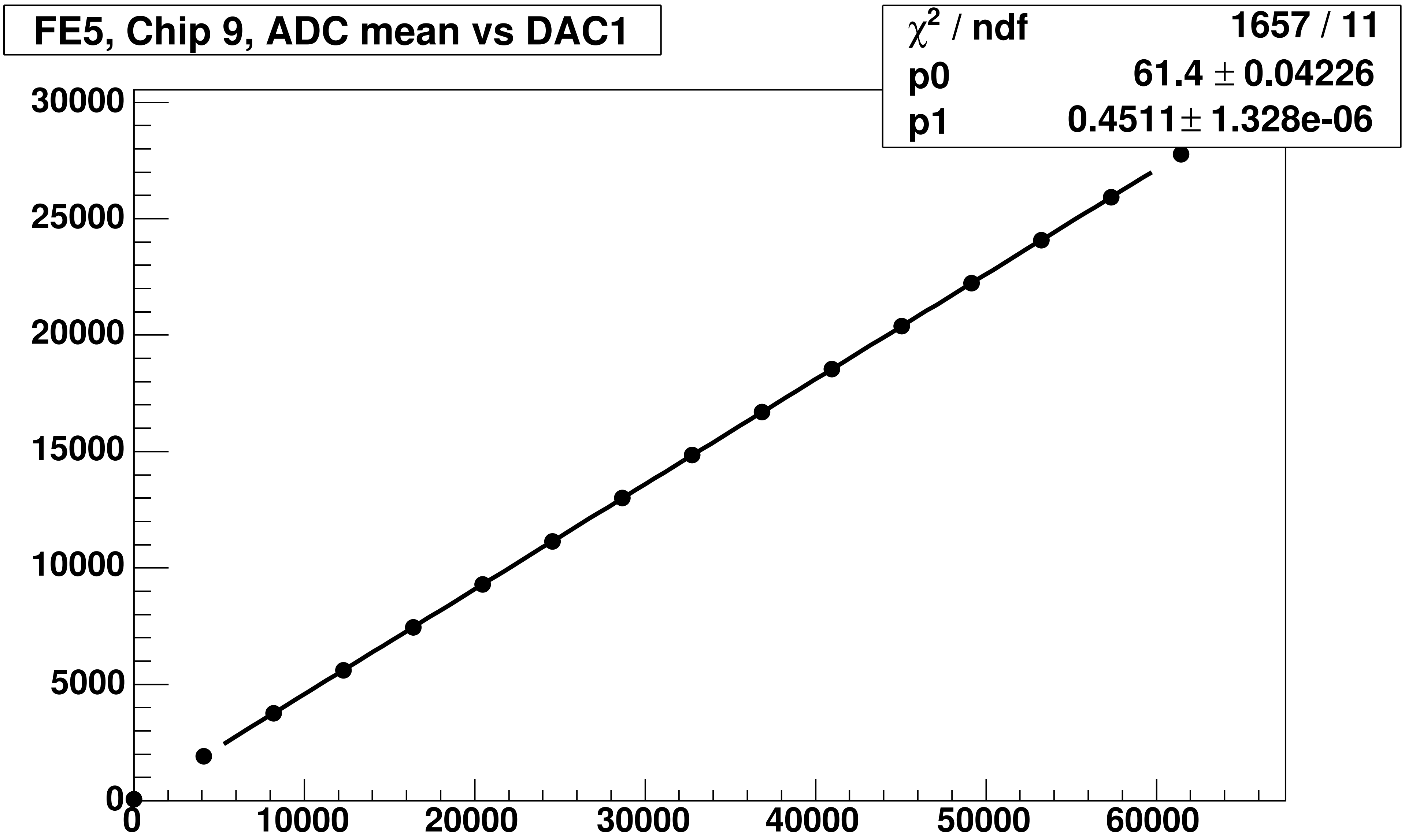


FE5, Chip 9, ADC mean vs DAC0
χ^2 / ndf 141.9 / 11
p0 59.05 ± 0.03974
p1 2.29e-06 ± 1.105e-06
59.6
59.5
59.4
59.3
59.2
59.1
59
58.9
58.8
58.7
0
10000
20000
30000
40000
50000
60000

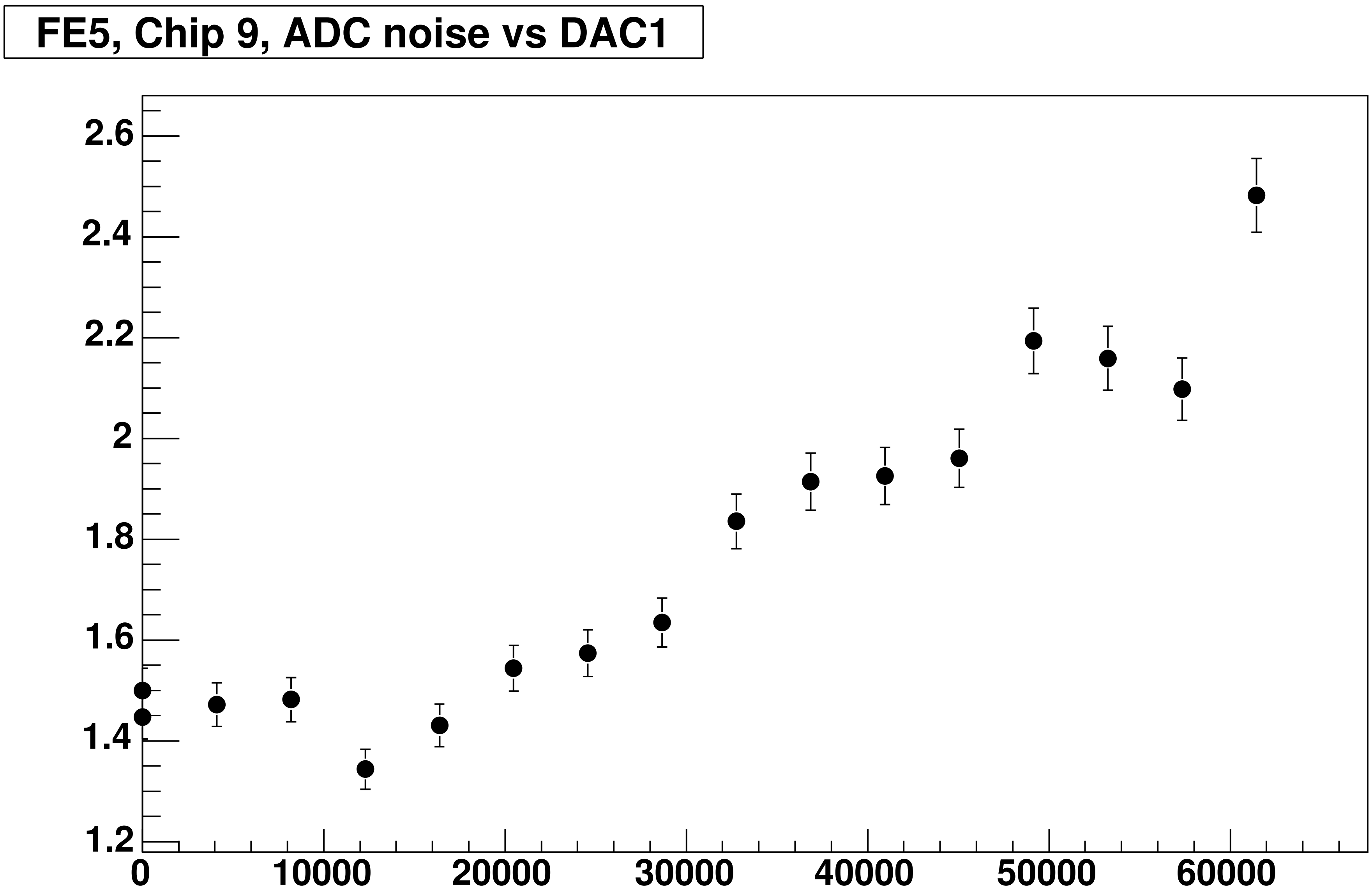


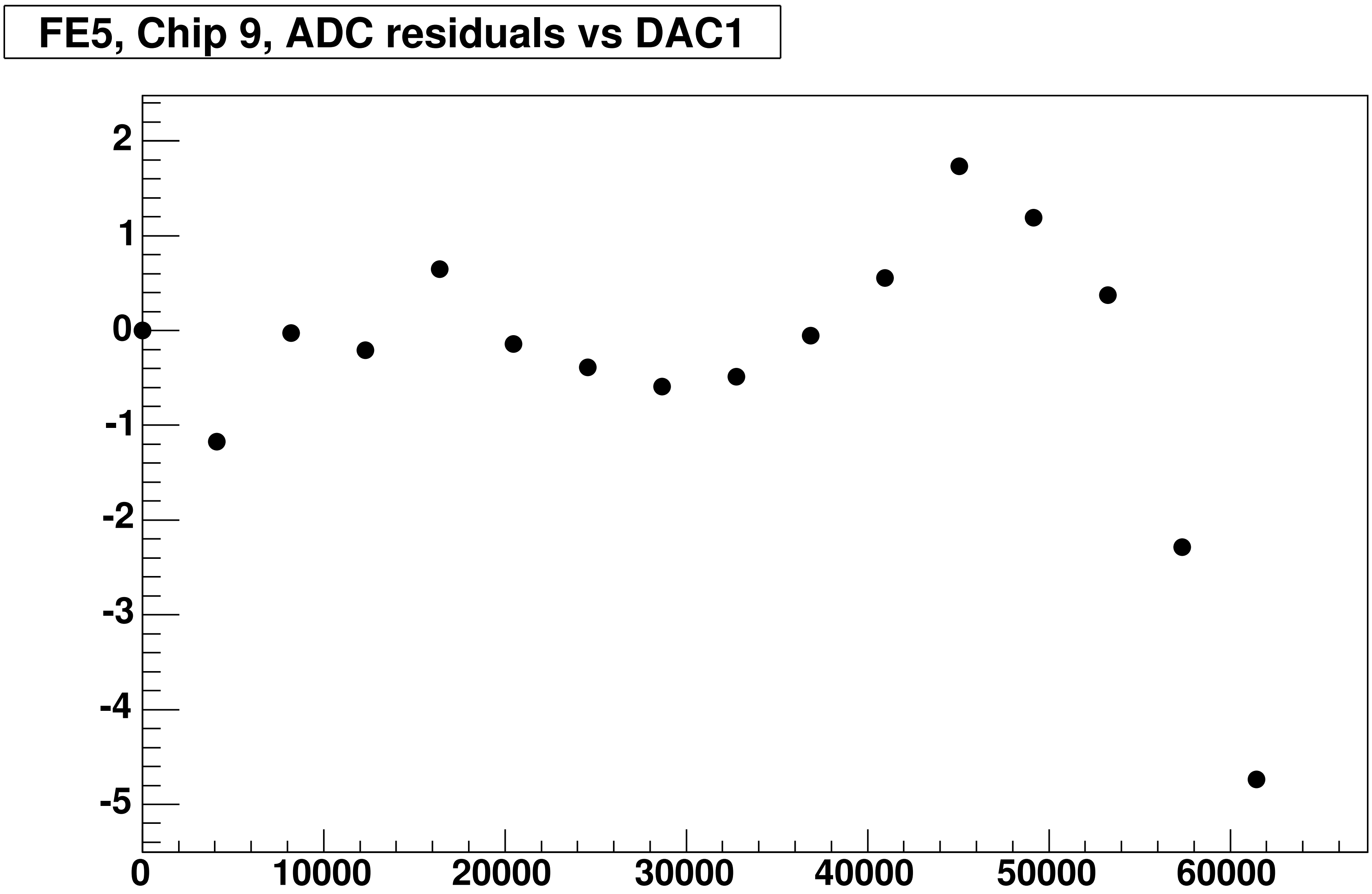
FE5, Chip 9, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

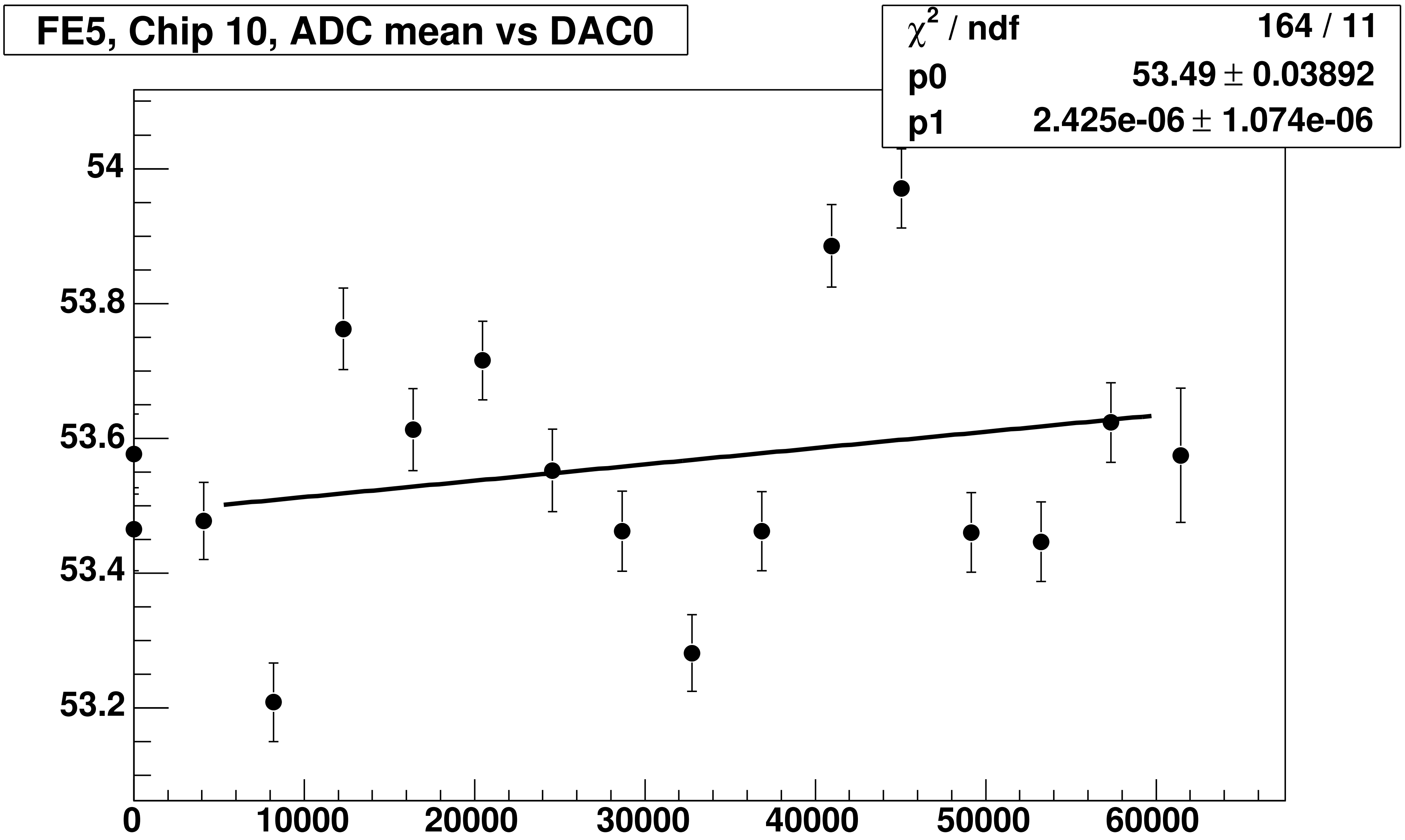

FE5, Chip 9, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



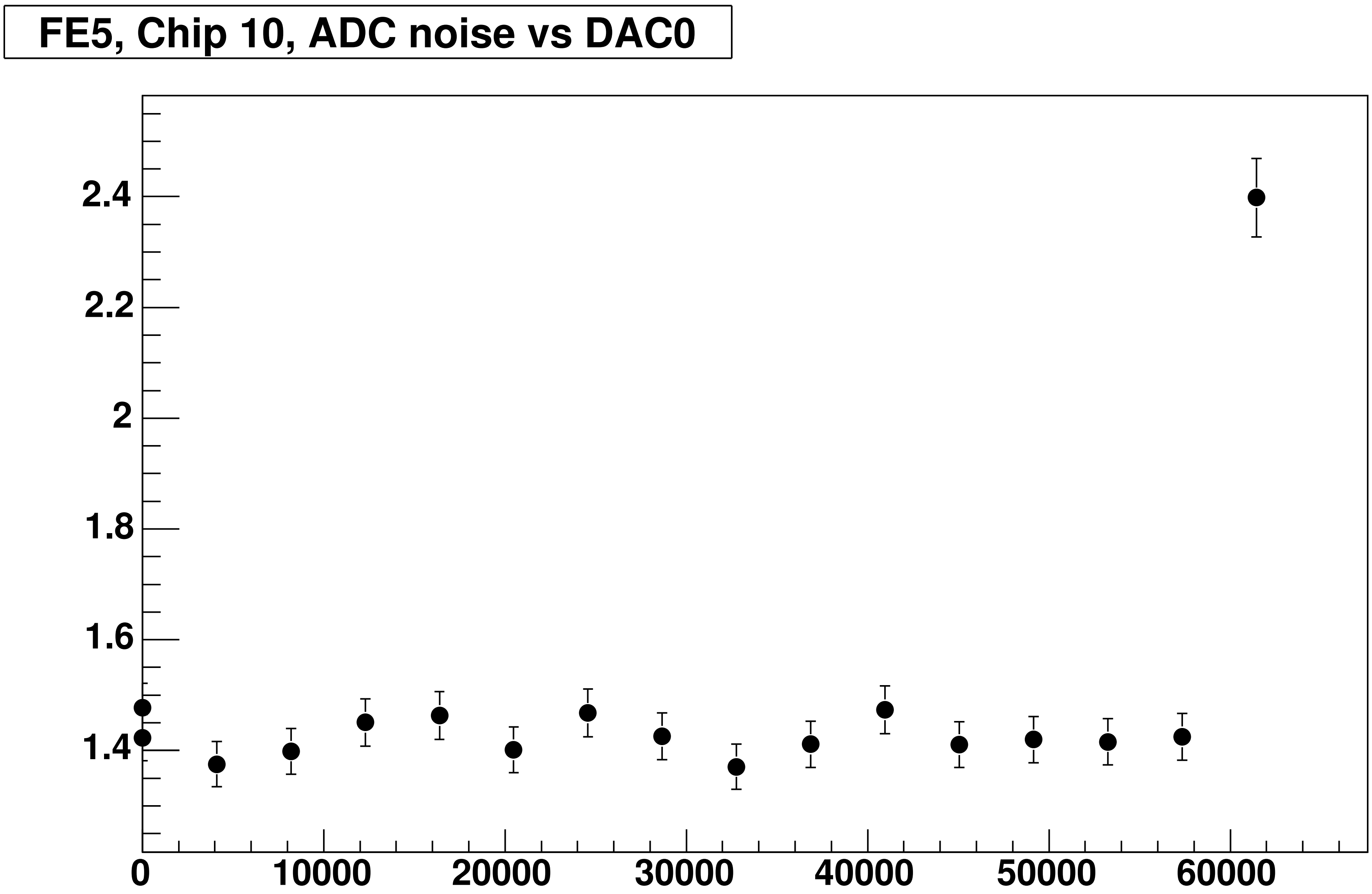
FE5, Chip 9, ADC mean vs DAC1
χ² / ndf 1657 / 11
p0 61.4 ± 0.04226
p1 0.4511 ± 1.328e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

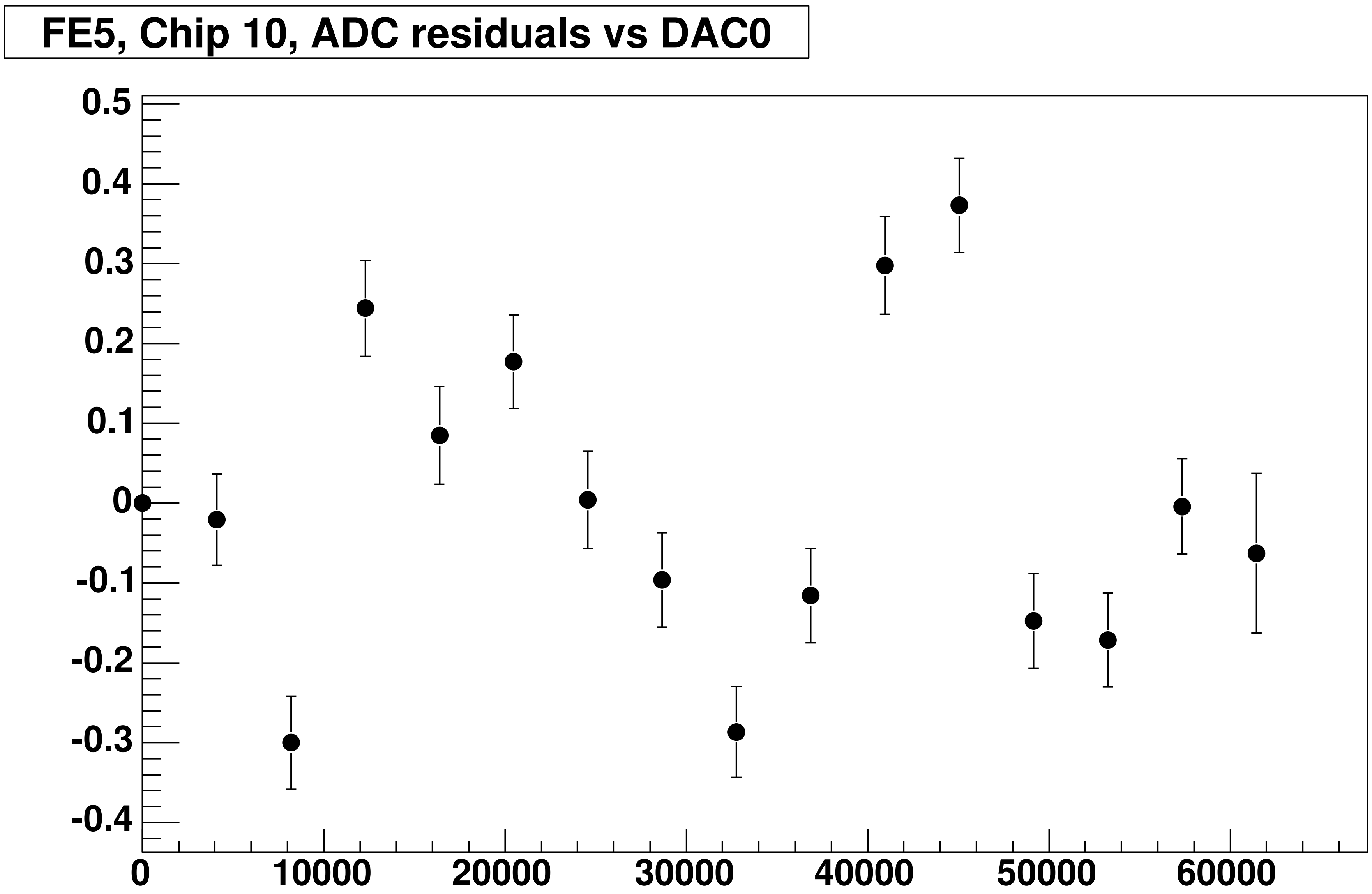

FE5, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

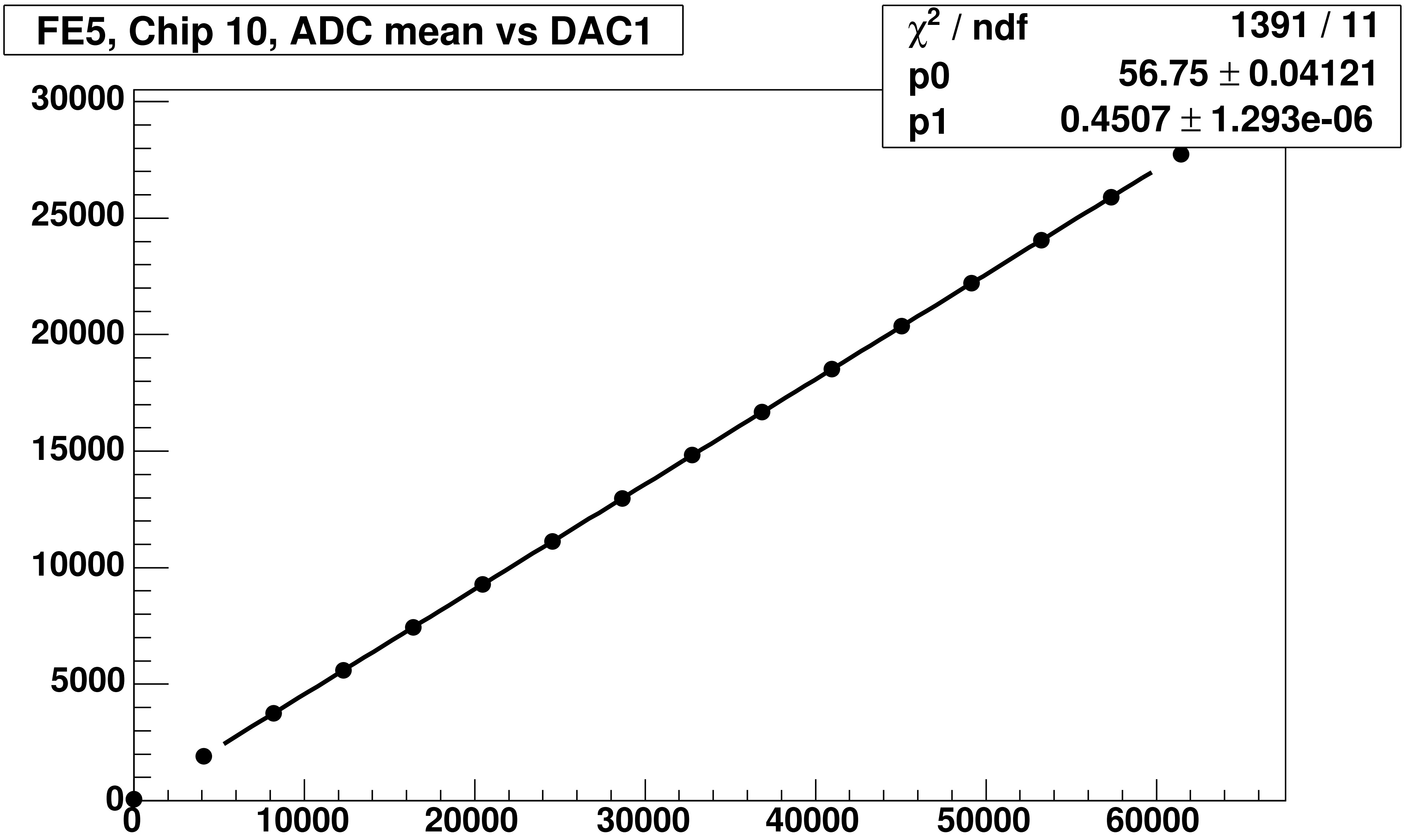

FE5, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



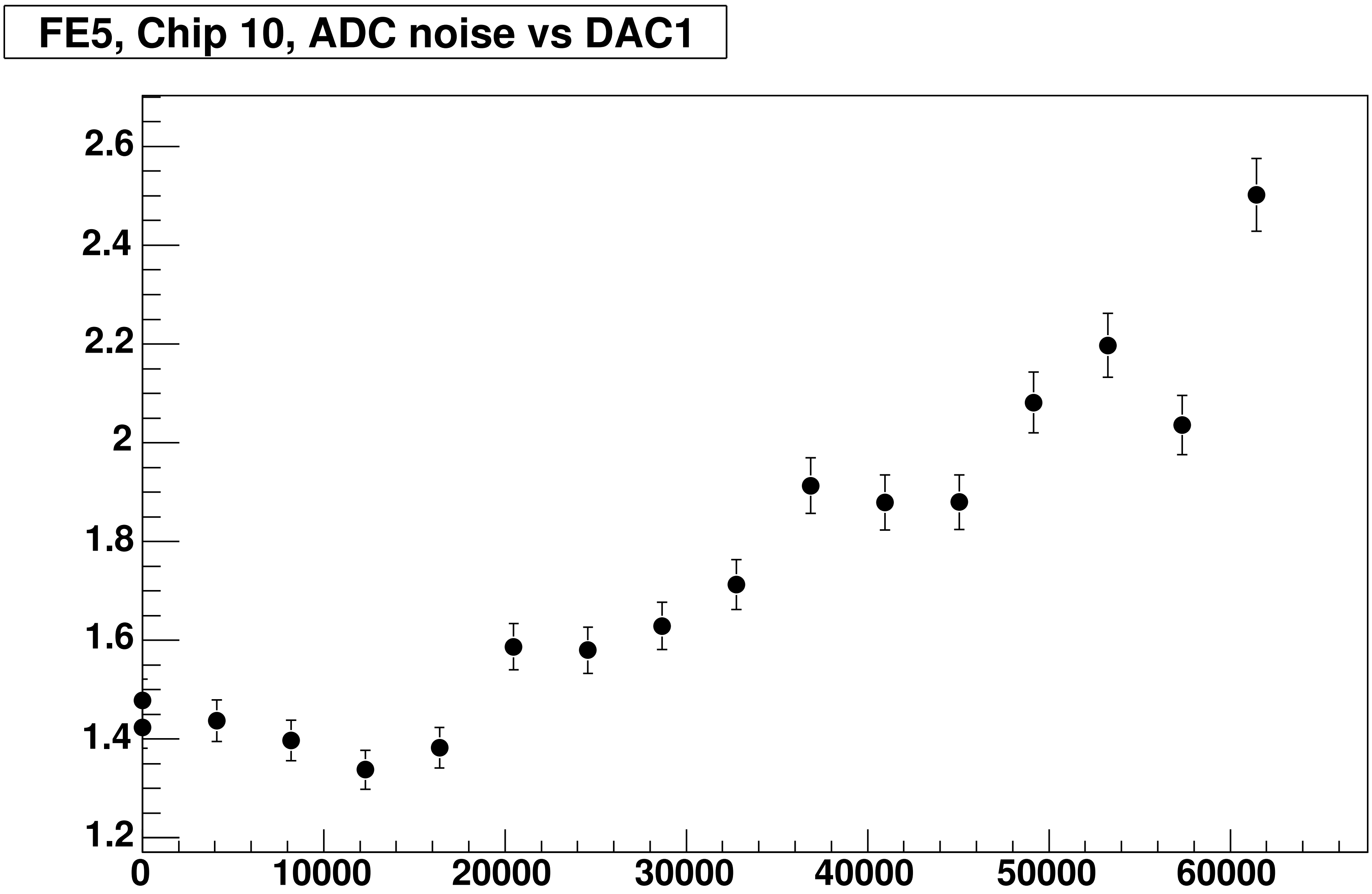
FE5, Chip 10, ADC mean vs DAC0
χ^2 / ndf 164 / 11
p0 53.49 ± 0.03892
p1 2.425e-06 ± 1.074e-06
54
53.8
53.6
53.4
53.2
0
10000
20000
30000
40000
50000
60000


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

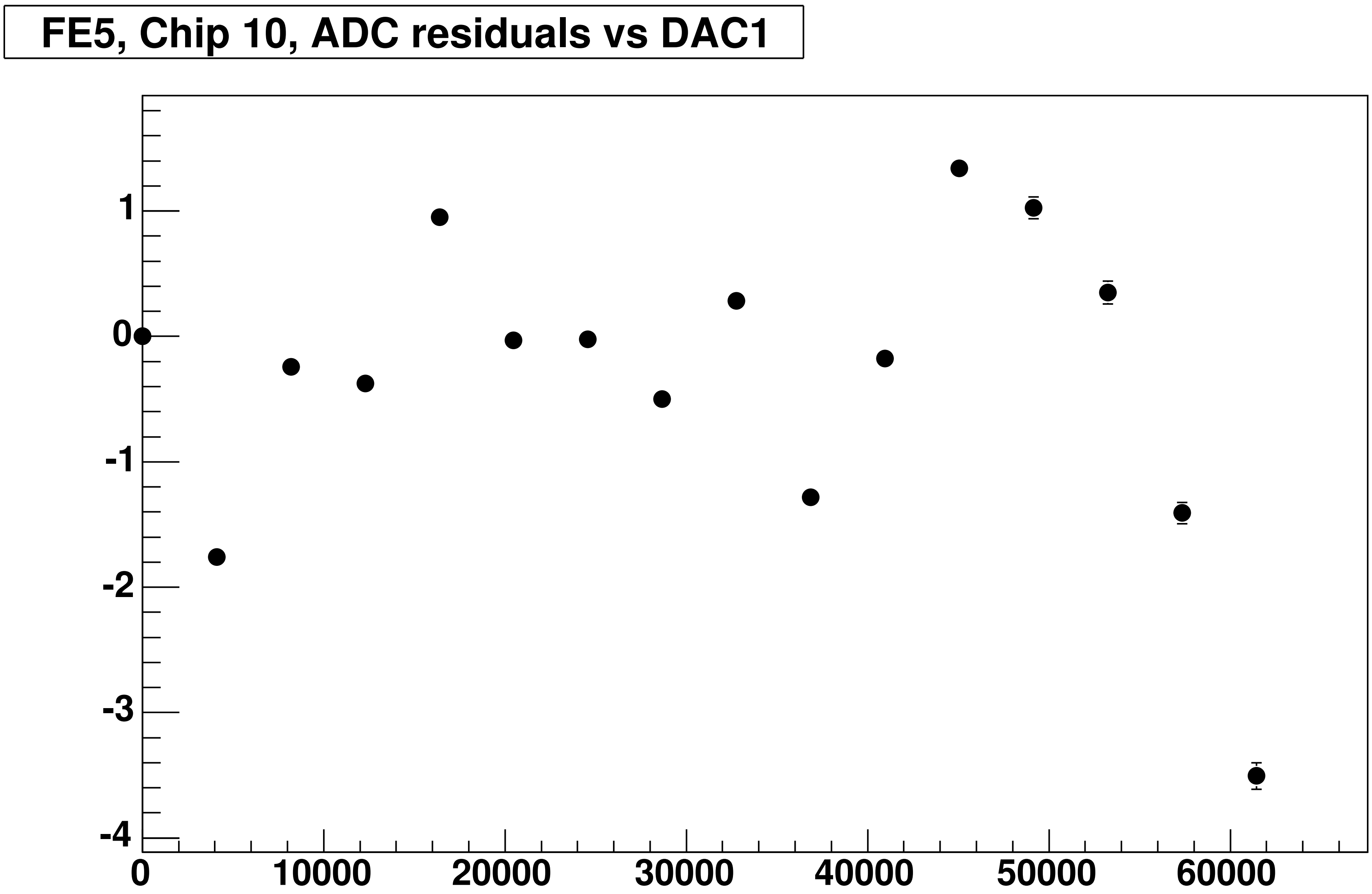

FE5, Chip 10, ADC residuals vs DAC0
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

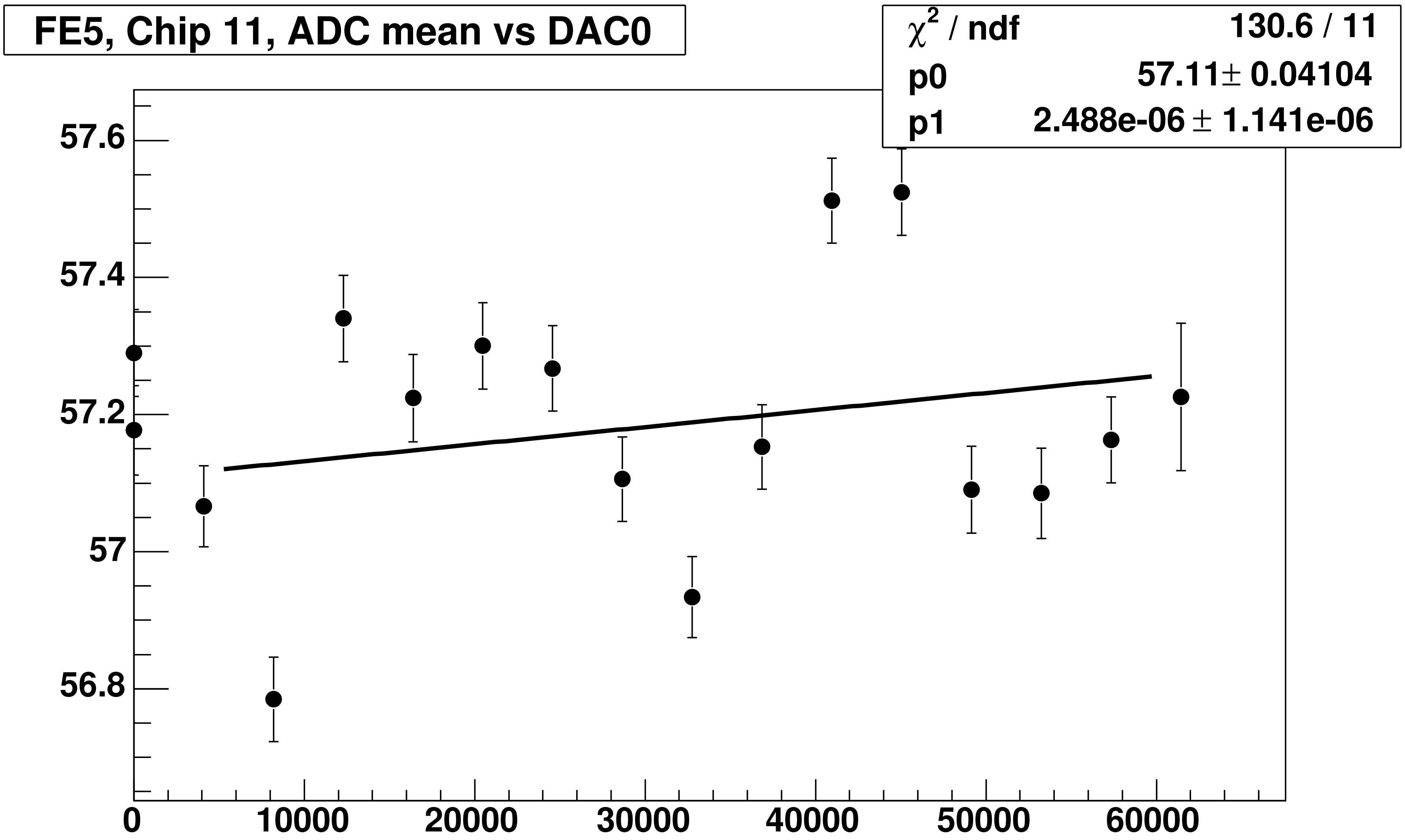


FE5, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1391 / 11
p0 56.75 ± 0.04121
p1 0.4507 ± 1.293e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

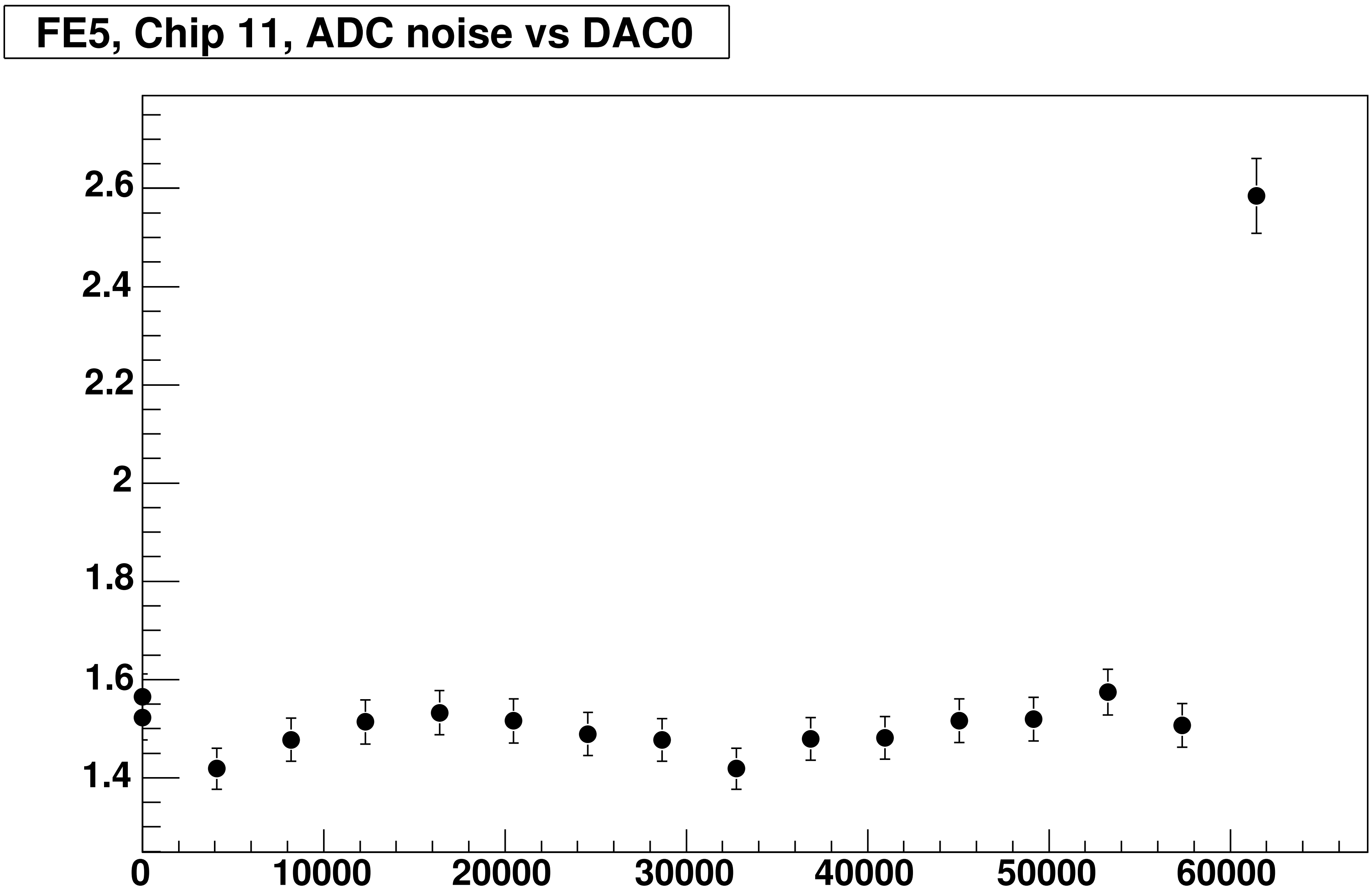


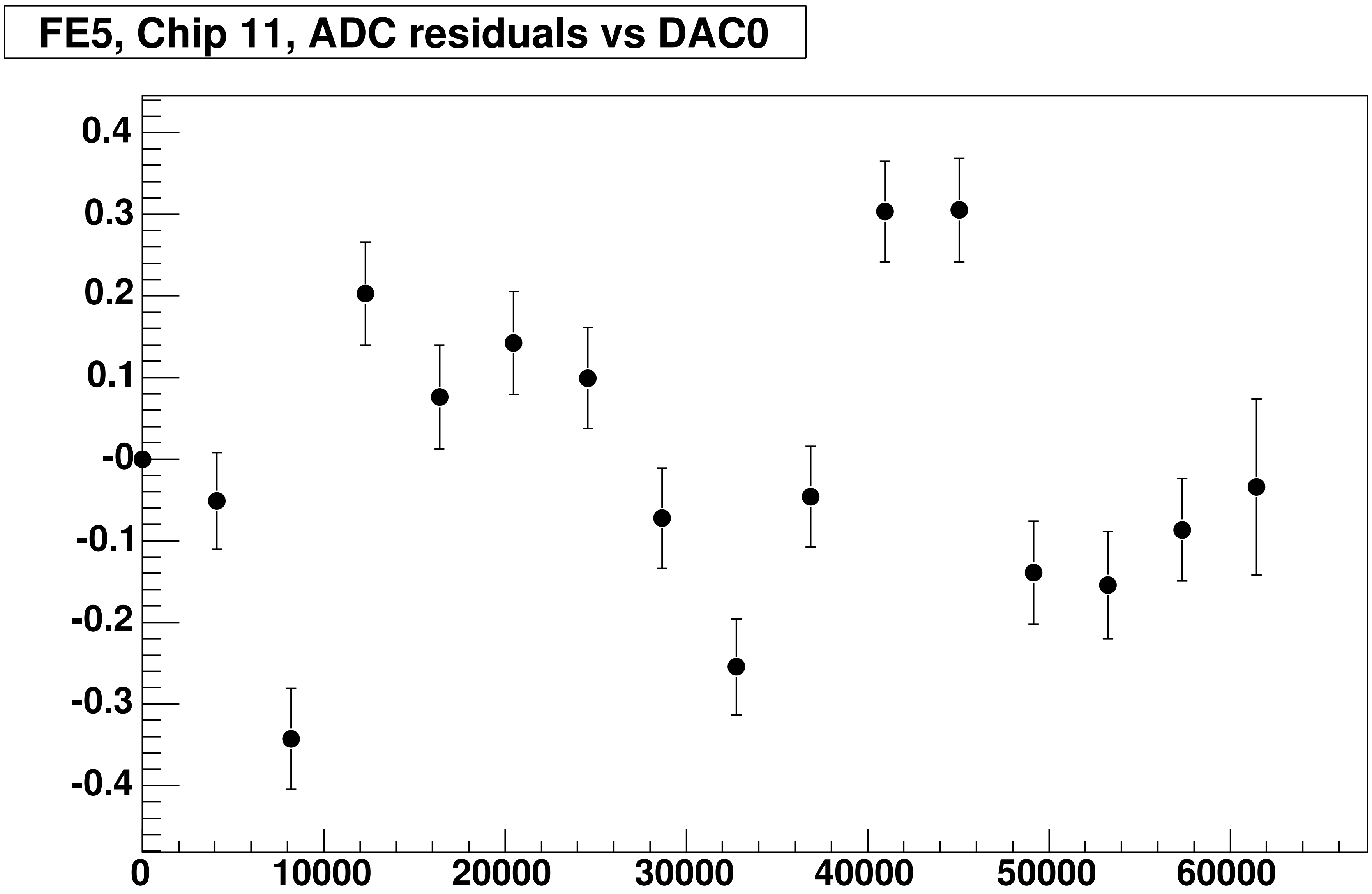
FE5, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

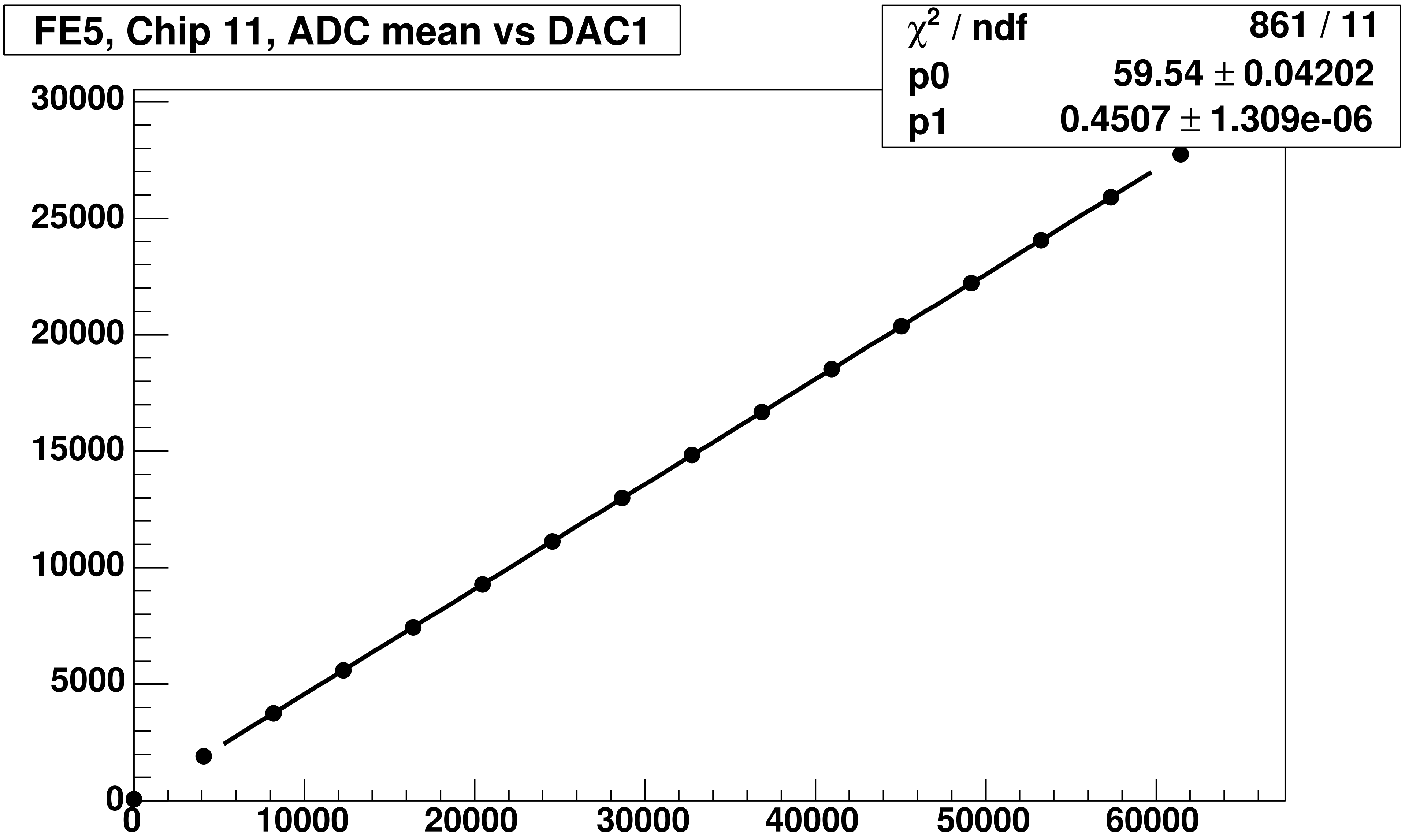

FE5, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

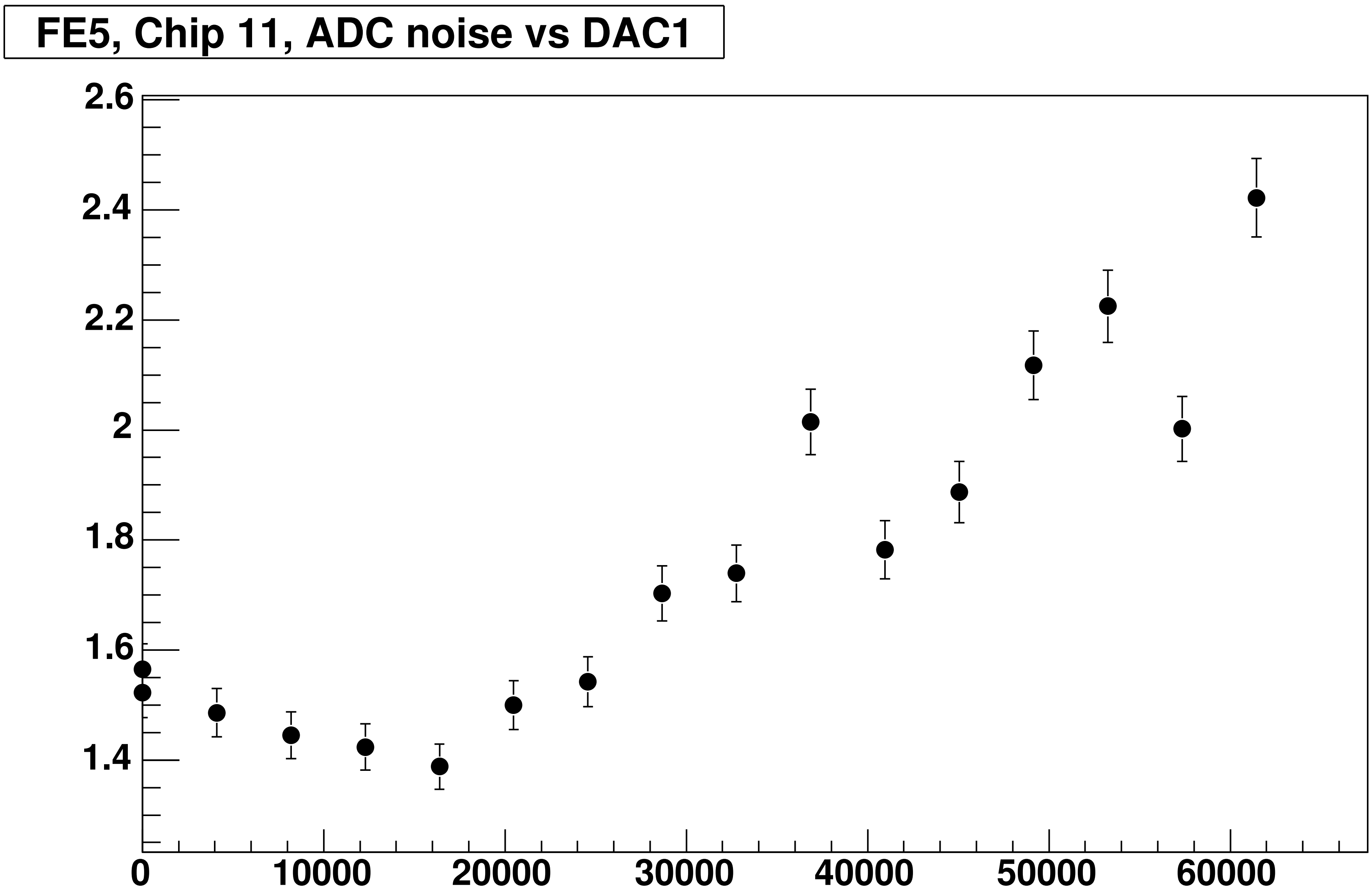


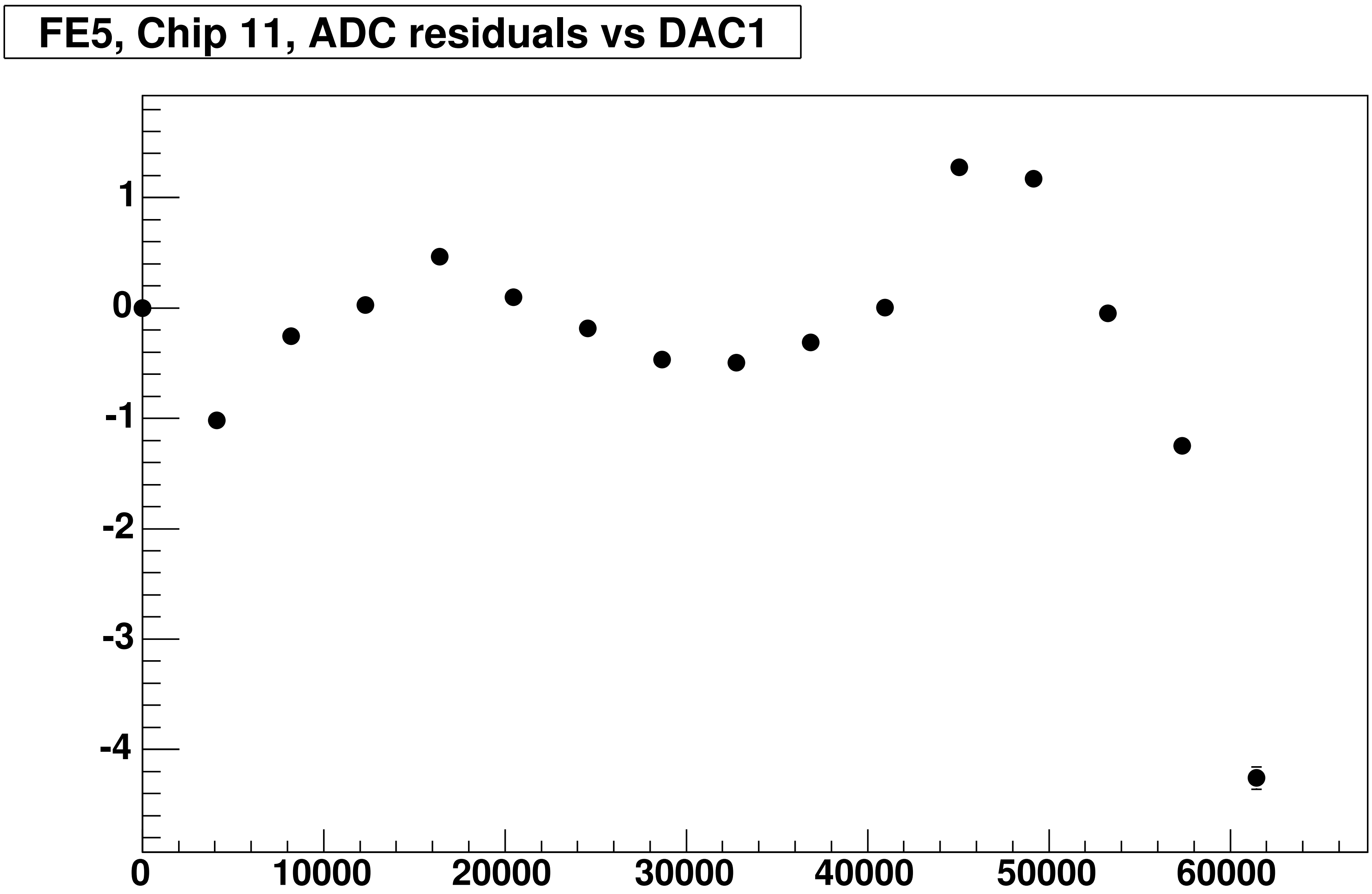
FE5, Chip 11, ADC mean vs DAC0
χ^2 / ndf 130.6 / 11
p0 57.11± 0.04104
p1 2.488e-06 ± 1.141e-06
57.6
57.4
57.2
57
56.8
0
10000
20000
30000
40000
50000
60000

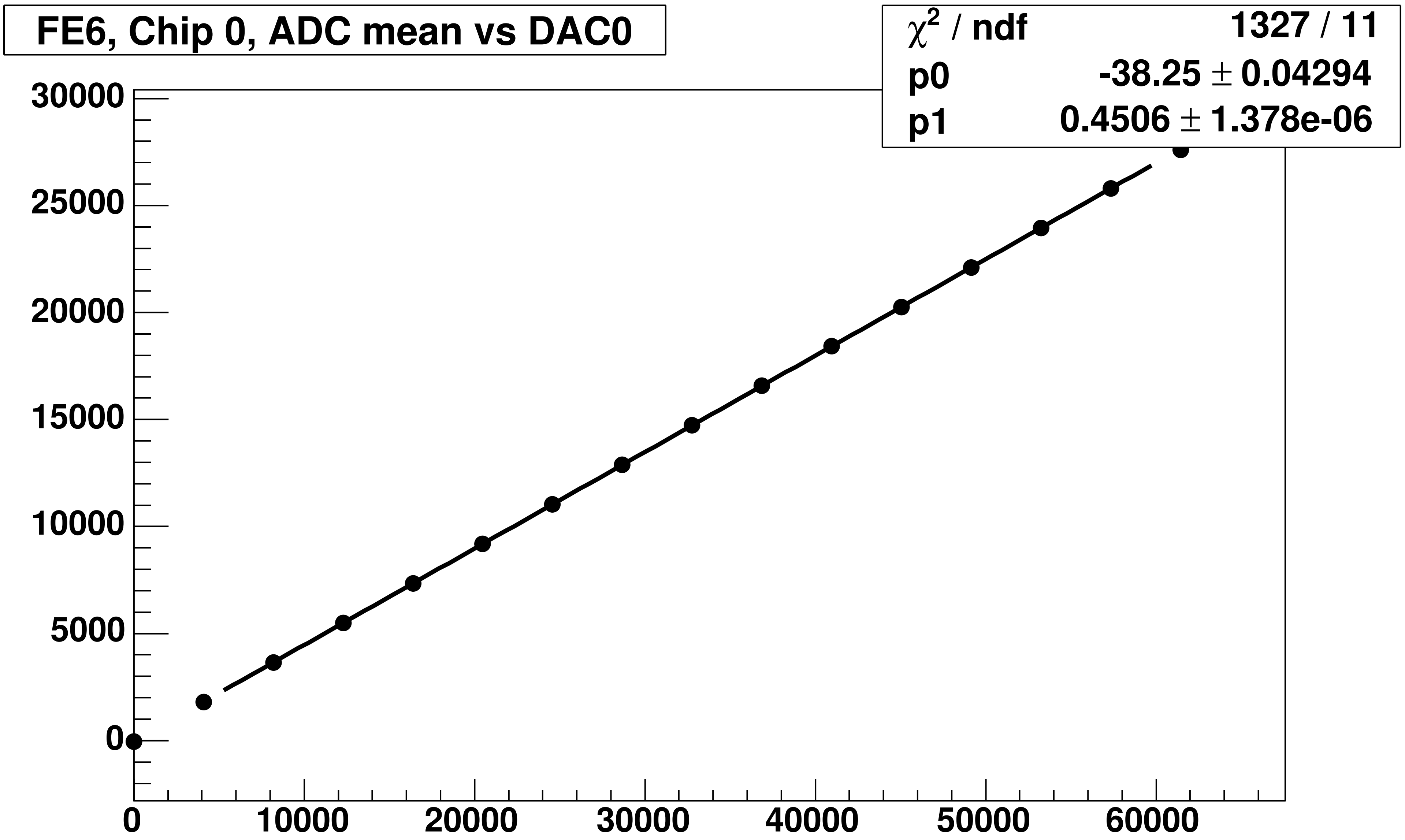

FE5, Chip 11, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

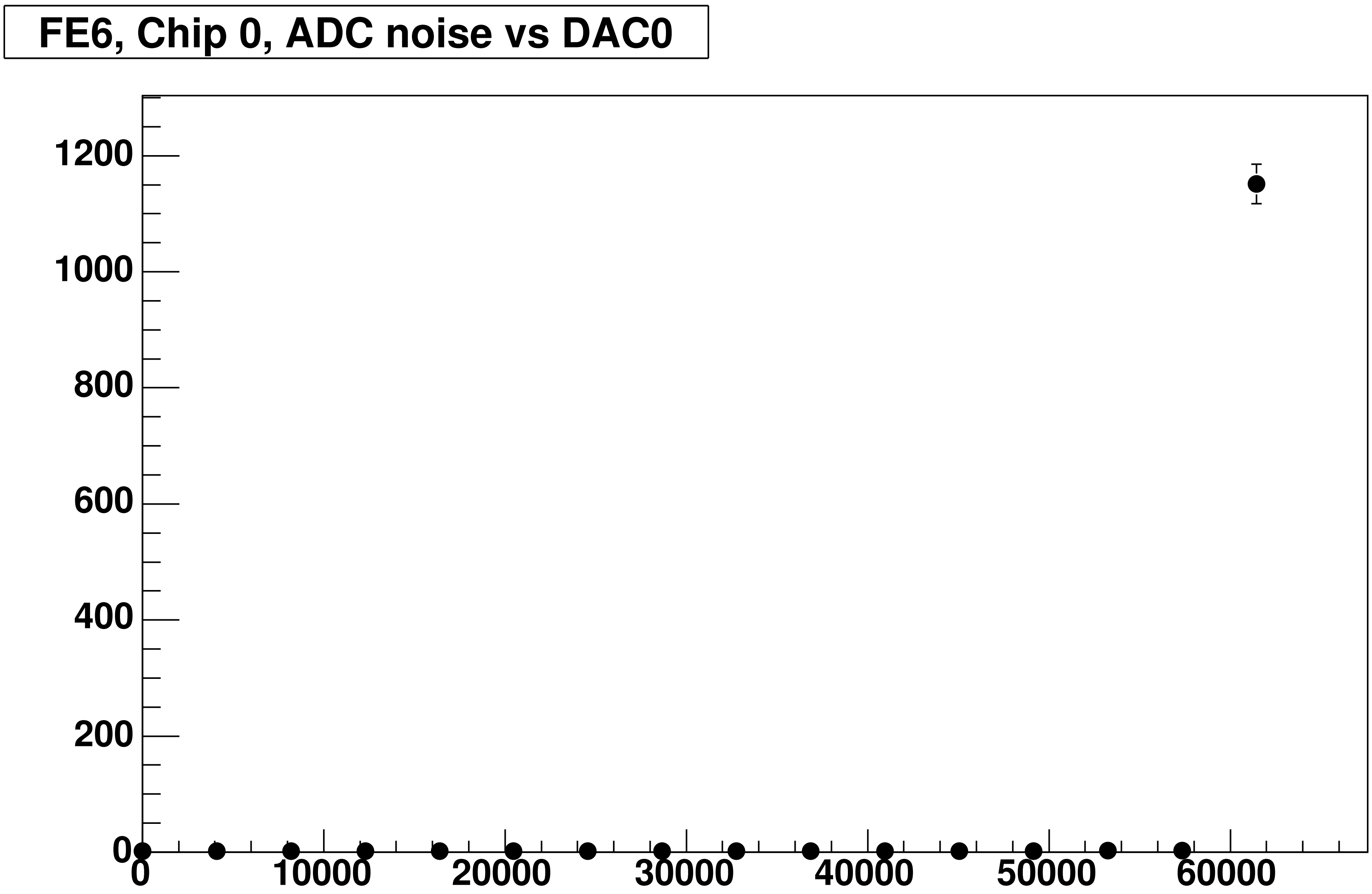

FE5, Chip 11, ADC mean vs DAC1
χ^2 / ndf 861 / 11
p0 59.54 ± 0.04202
p1 0.4507 ± 1.309e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

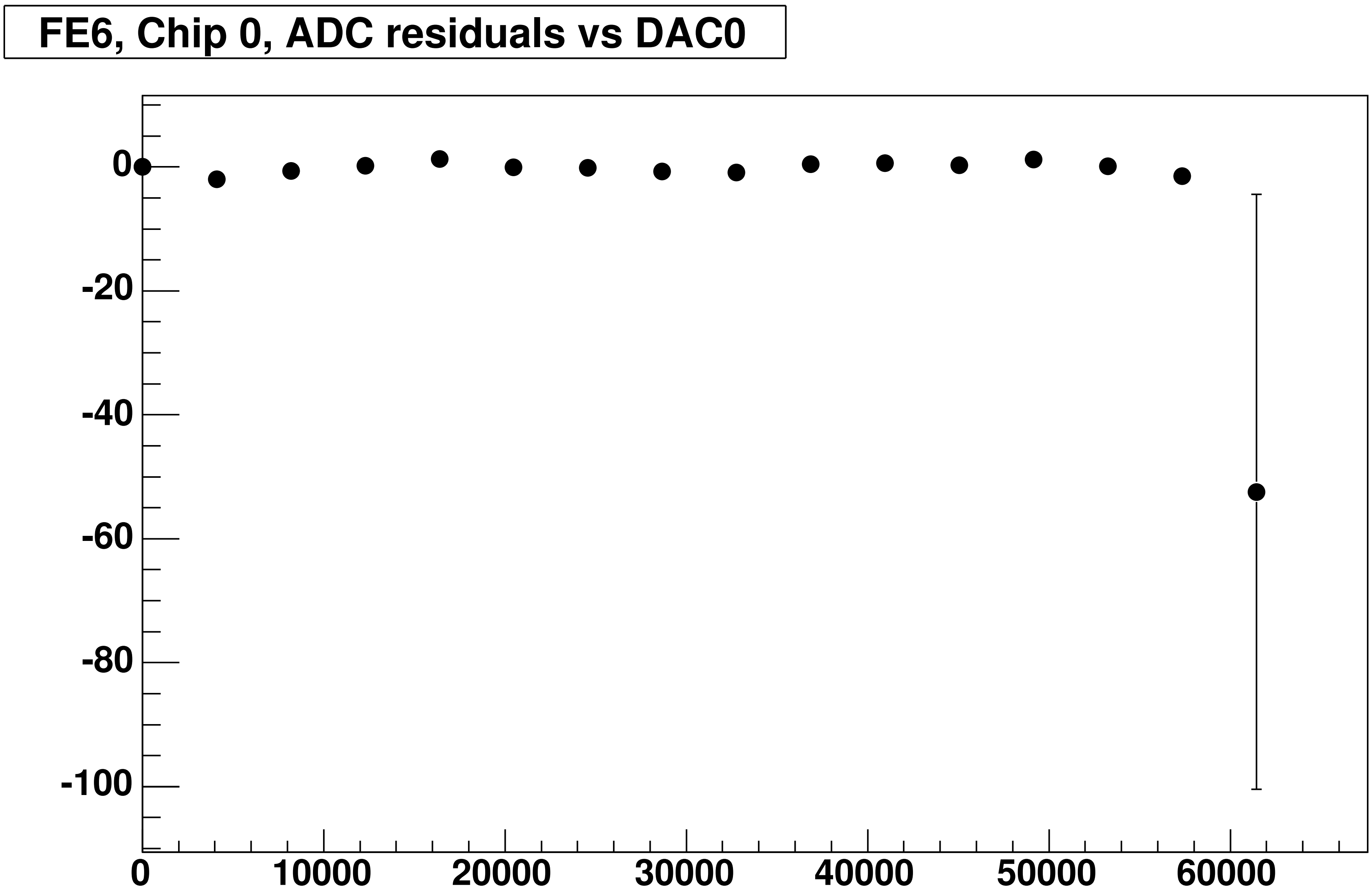

FE5, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

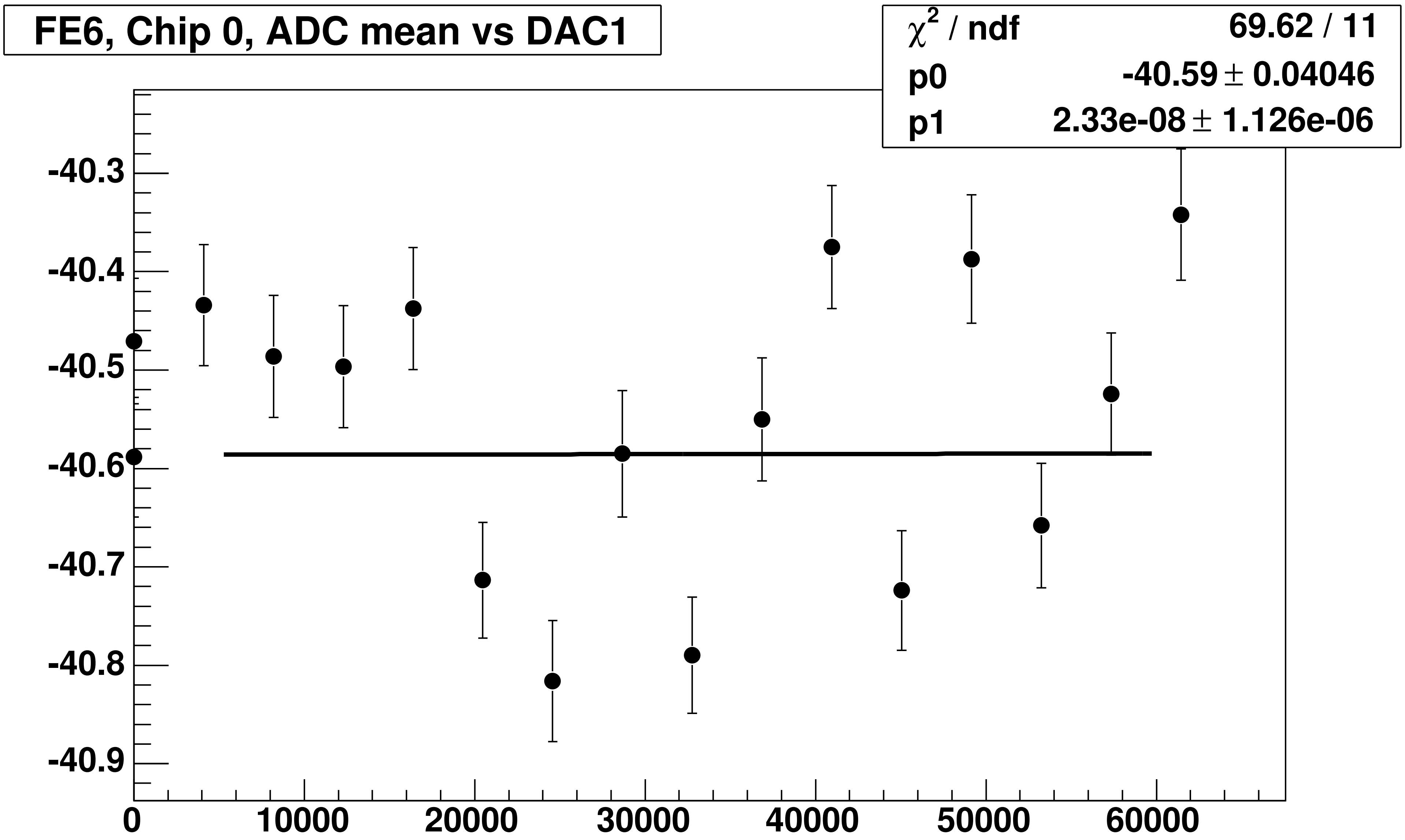


FE6, Chip 0, ADC mean vs DAC0
χ² / ndf 1327 / 11
p0 -38.25 ± 0.04294
p1 0.4506 ± 1.378e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

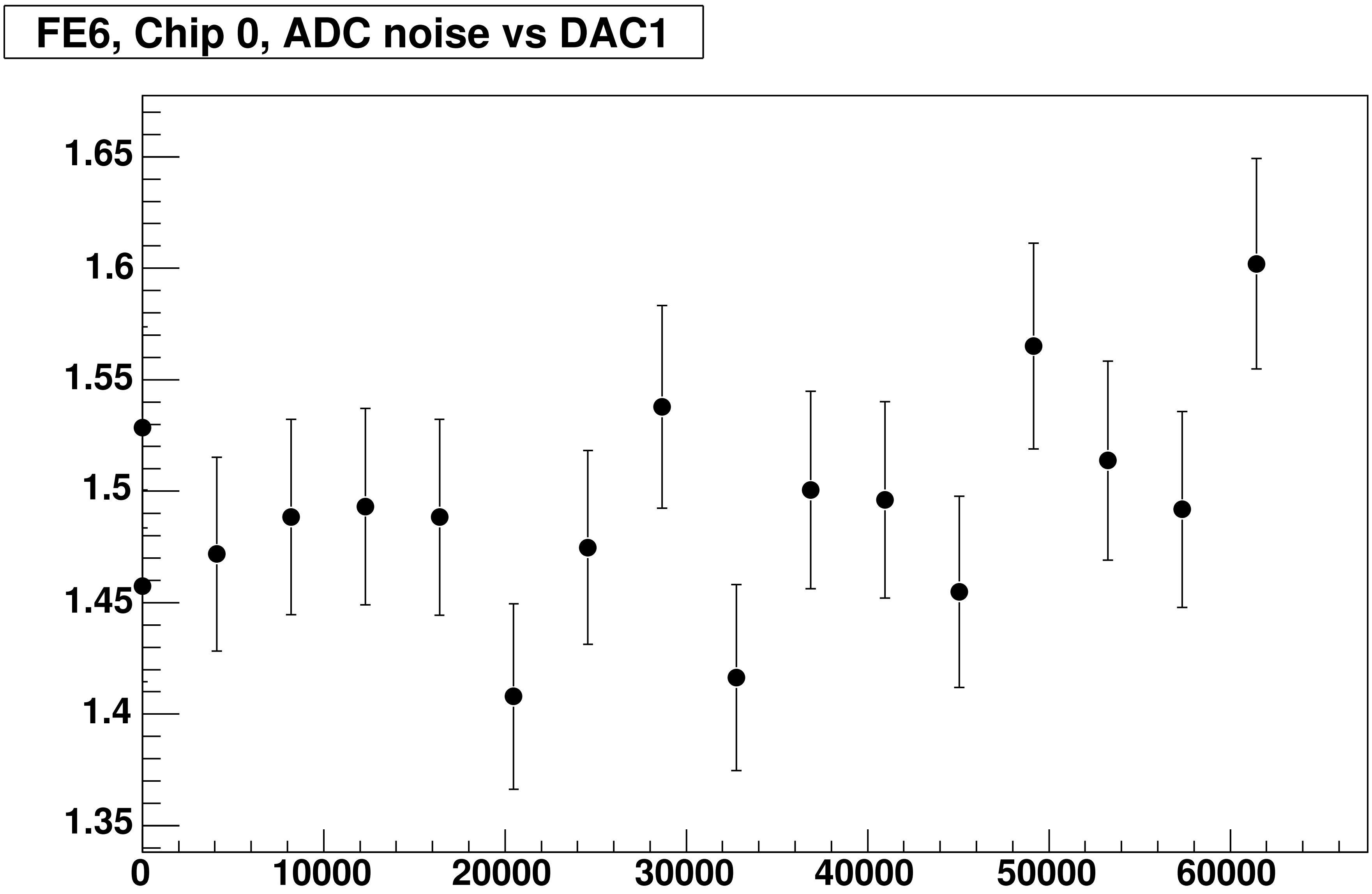


FE6, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

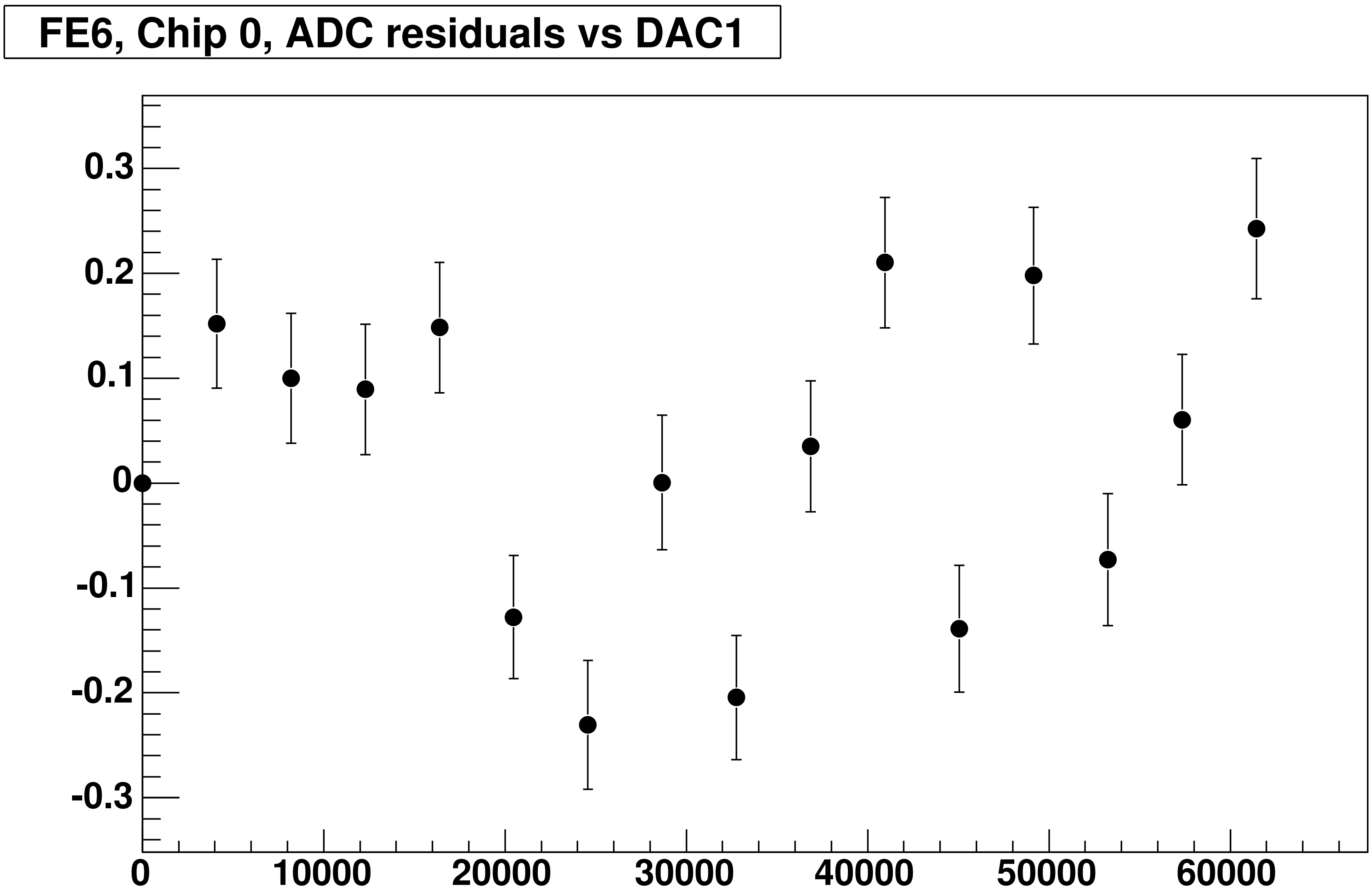

FE6, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

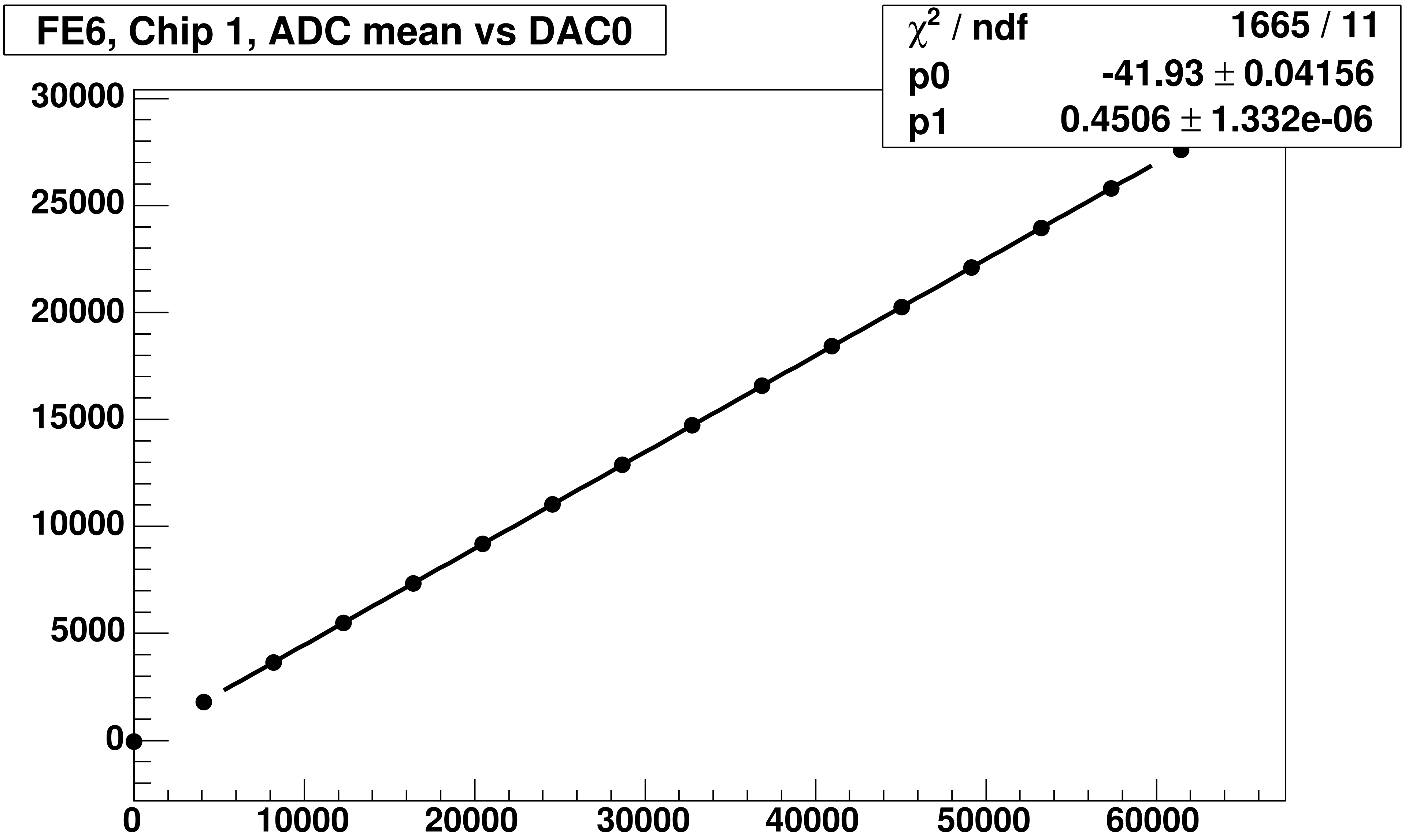


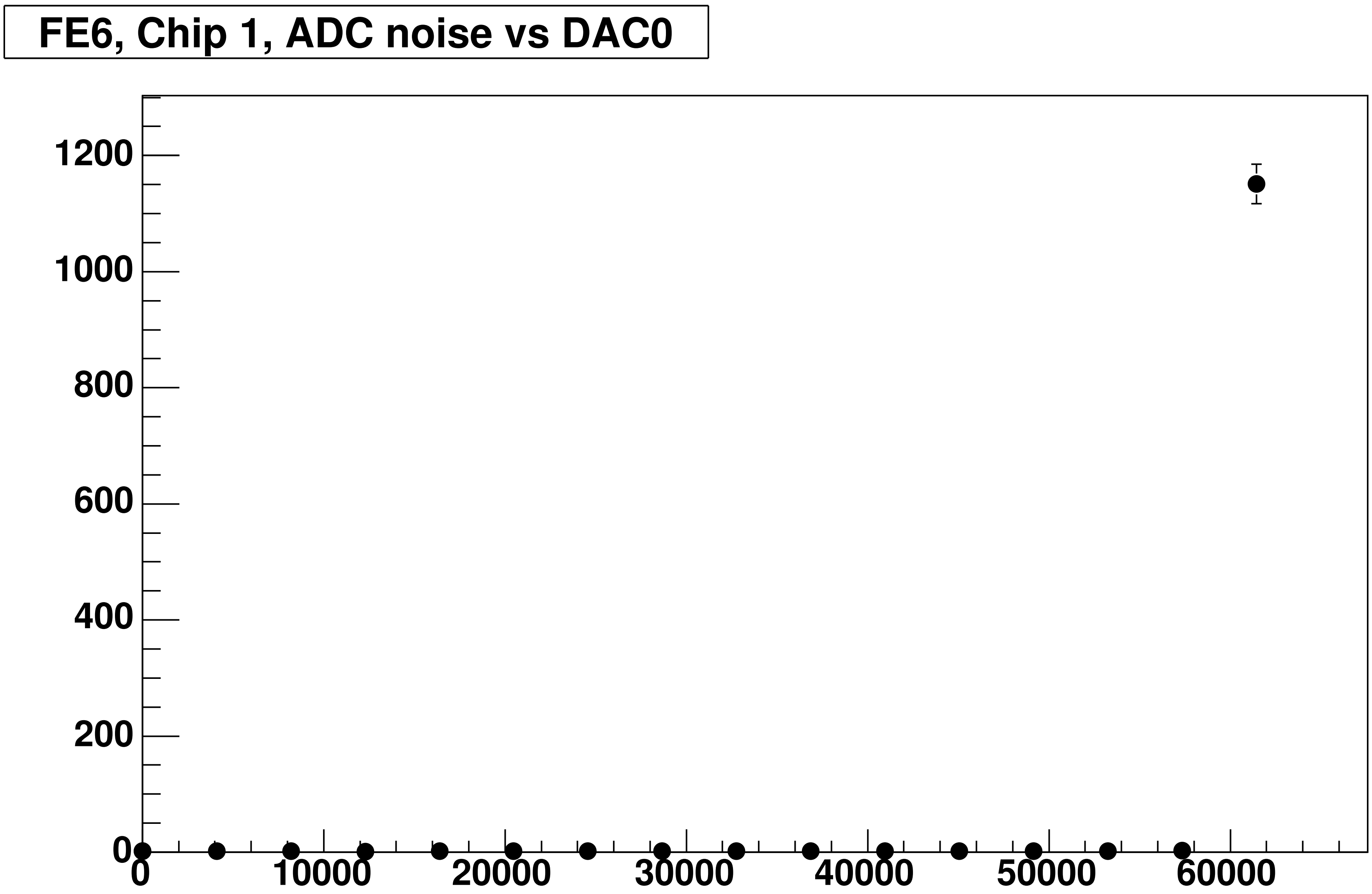
FE6, Chip 0, ADC mean vs DAC1
χ^2 / ndf 69.62 / 11
p0 -40.59 ± 0.04046
p1 2.33e-08 ± 1.126e-06
-40.3
-40.4
-40.5
-40.6
-40.7
-40.8
-40.9
0
10000
20000
30000
40000
50000
60000

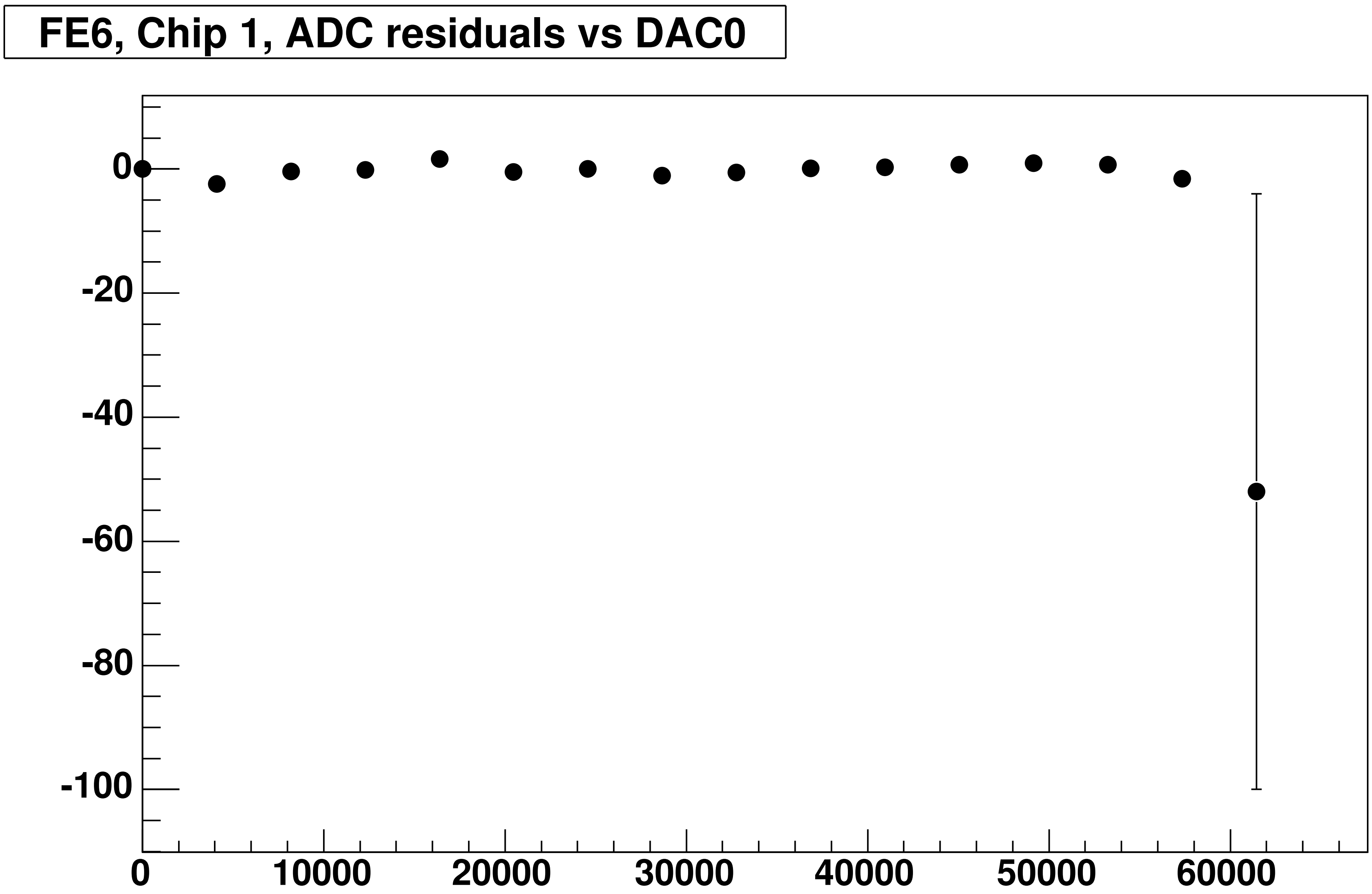


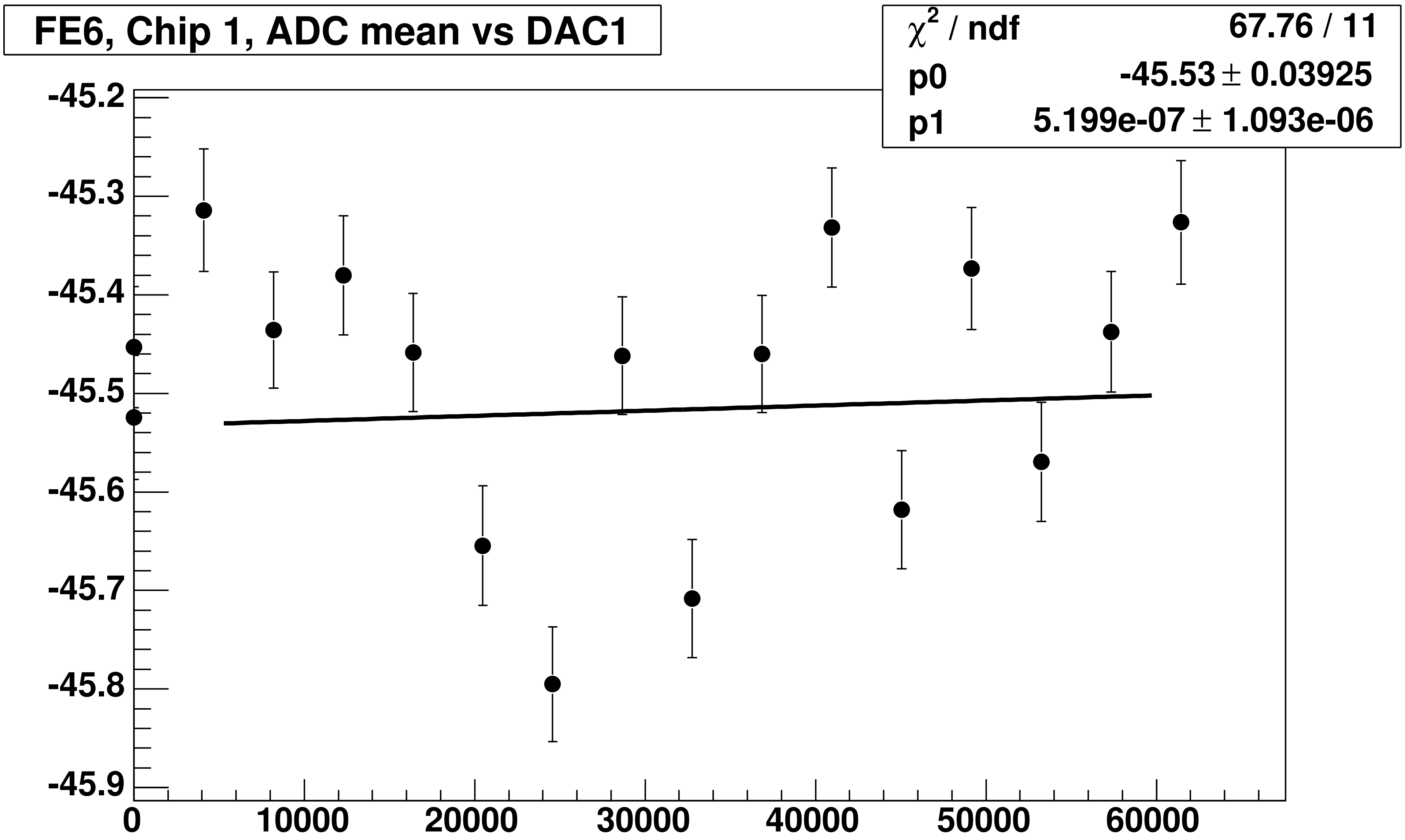
FE6, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

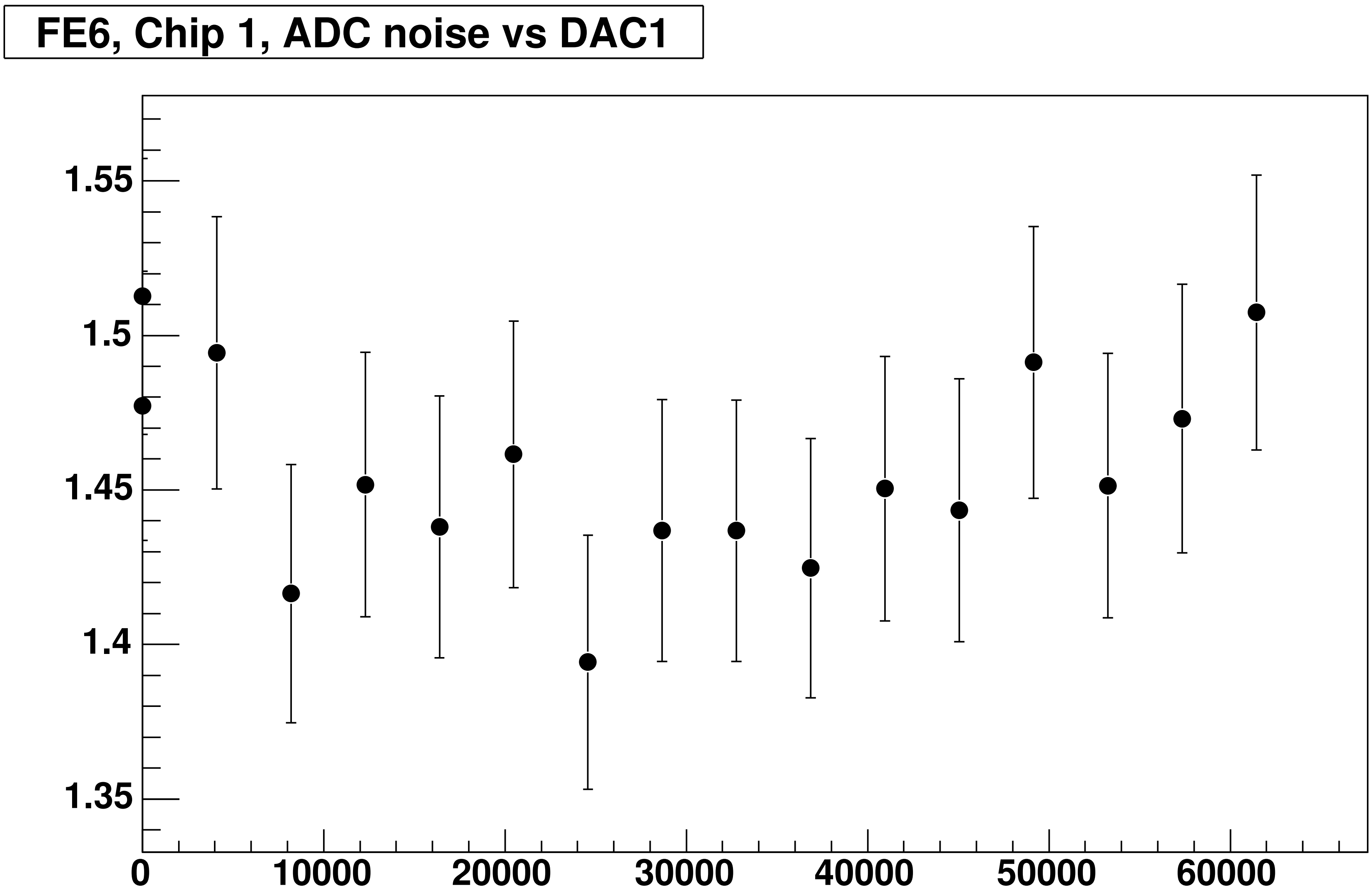

FE6, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1665 / 11
p0 -41.93 ± 0.04156
p1 0.4506 ± 1.332e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

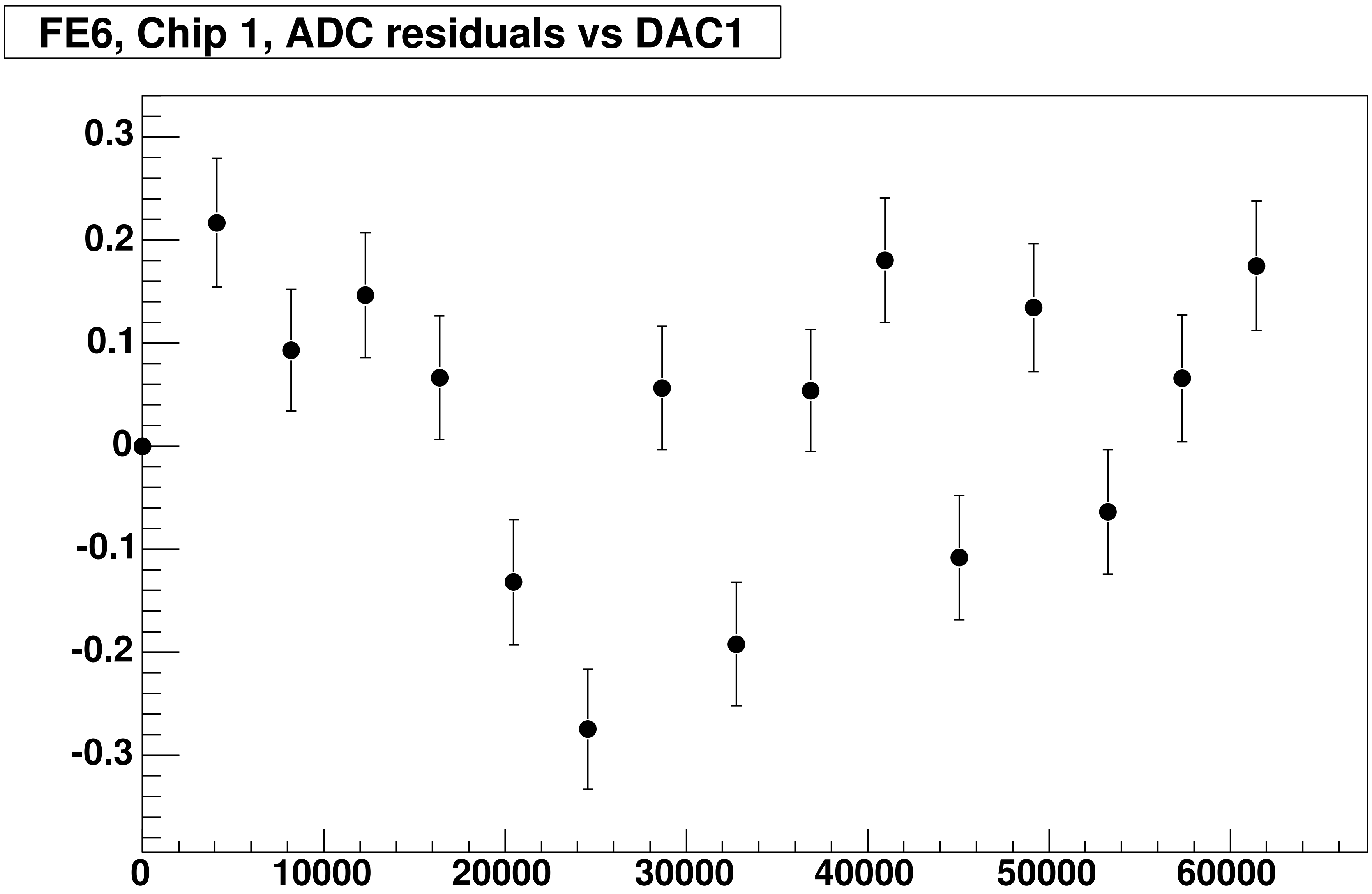

FE6, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

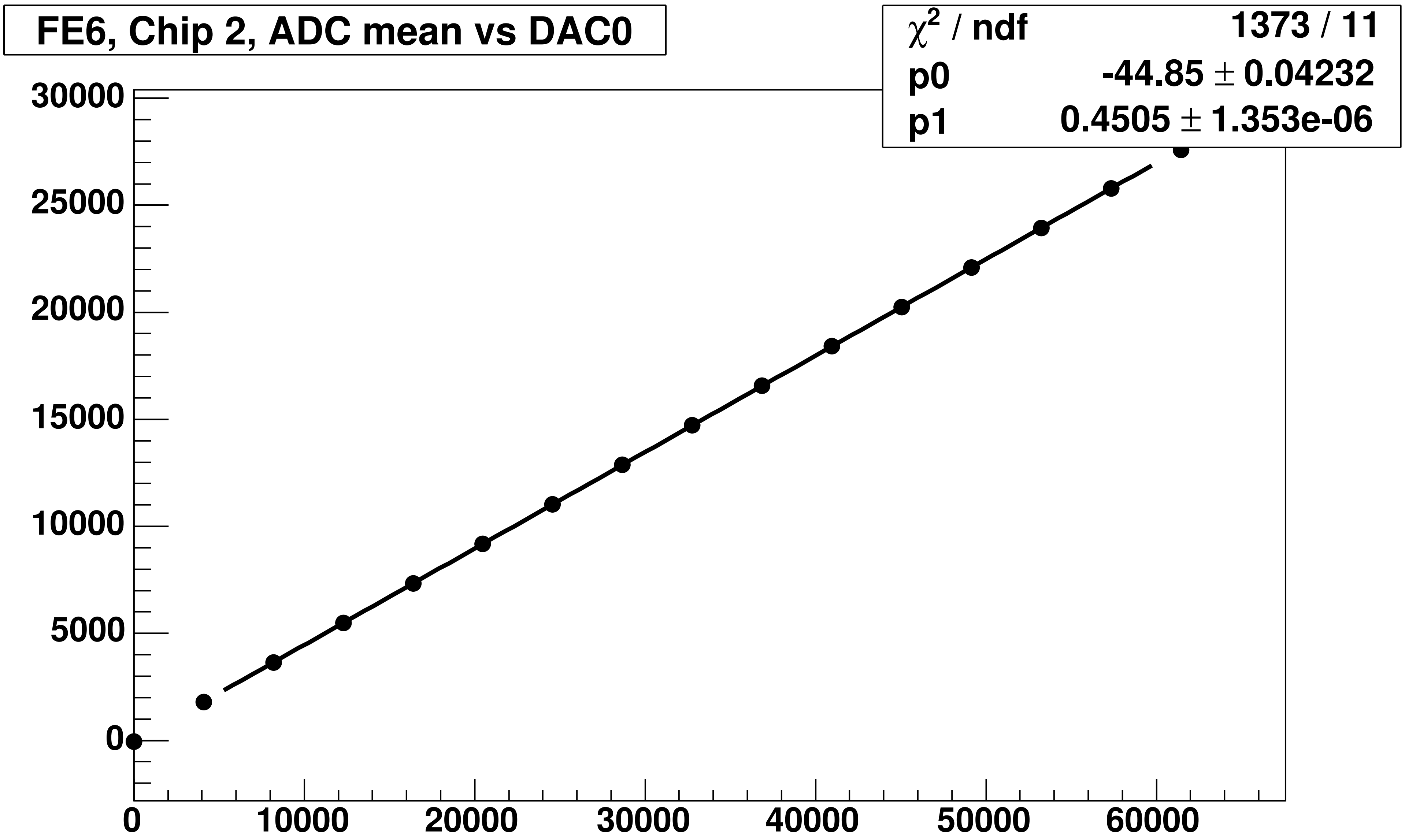

FE6, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



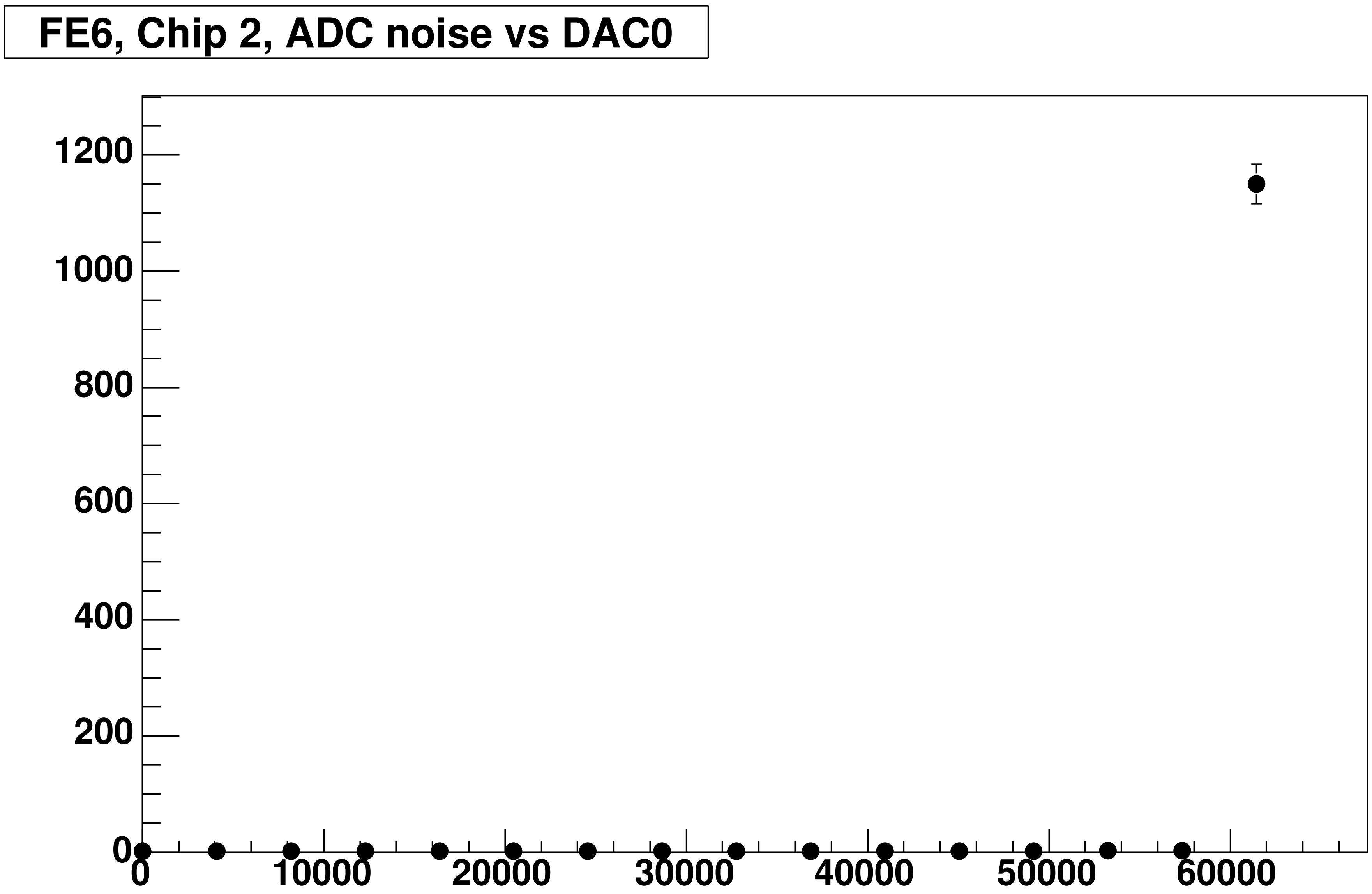
FE6, Chip 1, ADC mean vs DAC1
χ^2 / ndf 67.76 / 11
p0 -45.53 ± 0.03925
p1 5.199e-07 ± 1.093e-06
-45.2
-45.3
-45.4
-45.5
-45.6
-45.7
-45.8
-45.9
0
10000
20000
30000
40000
50000
60000

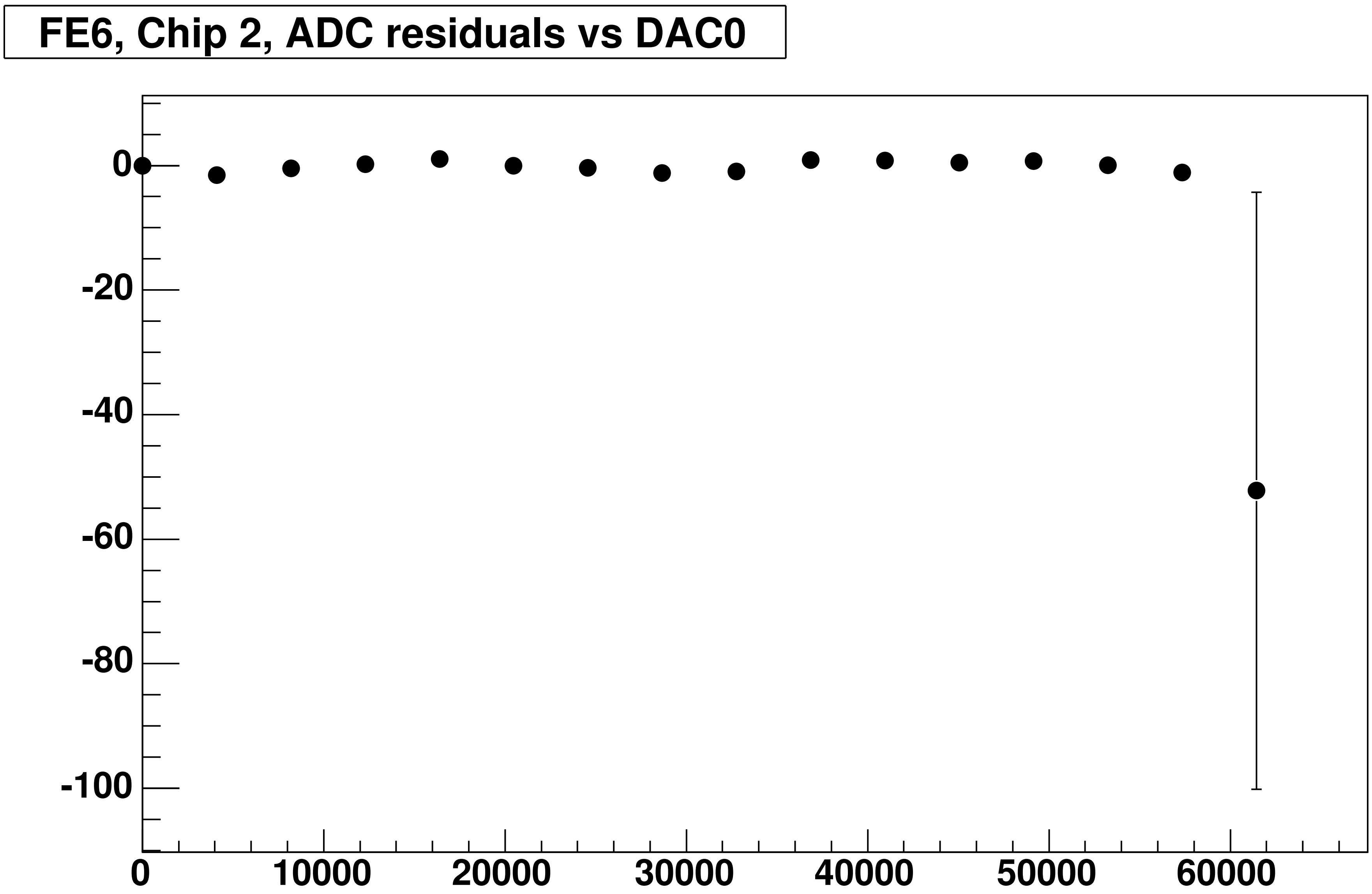

FE6, Chip 1, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

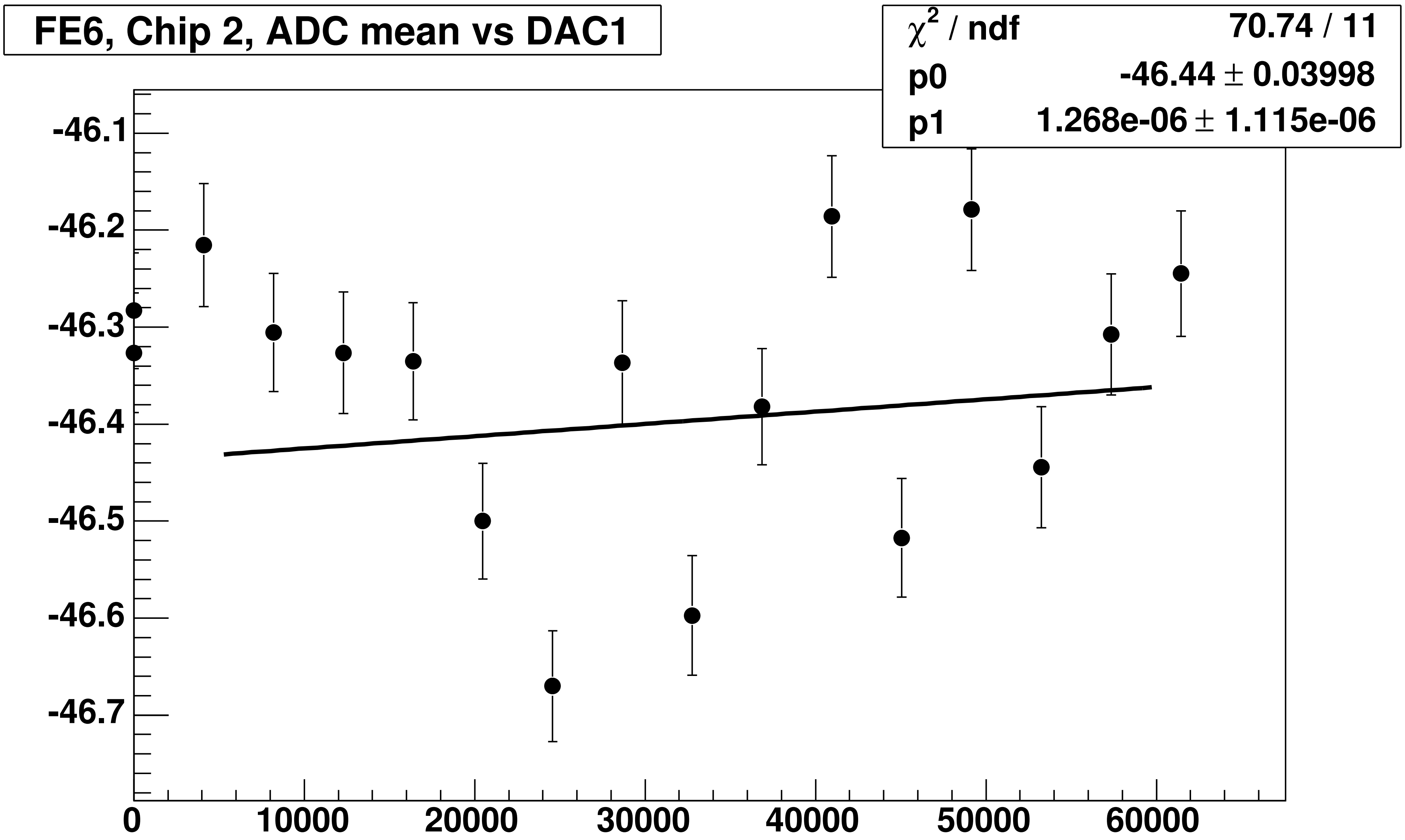


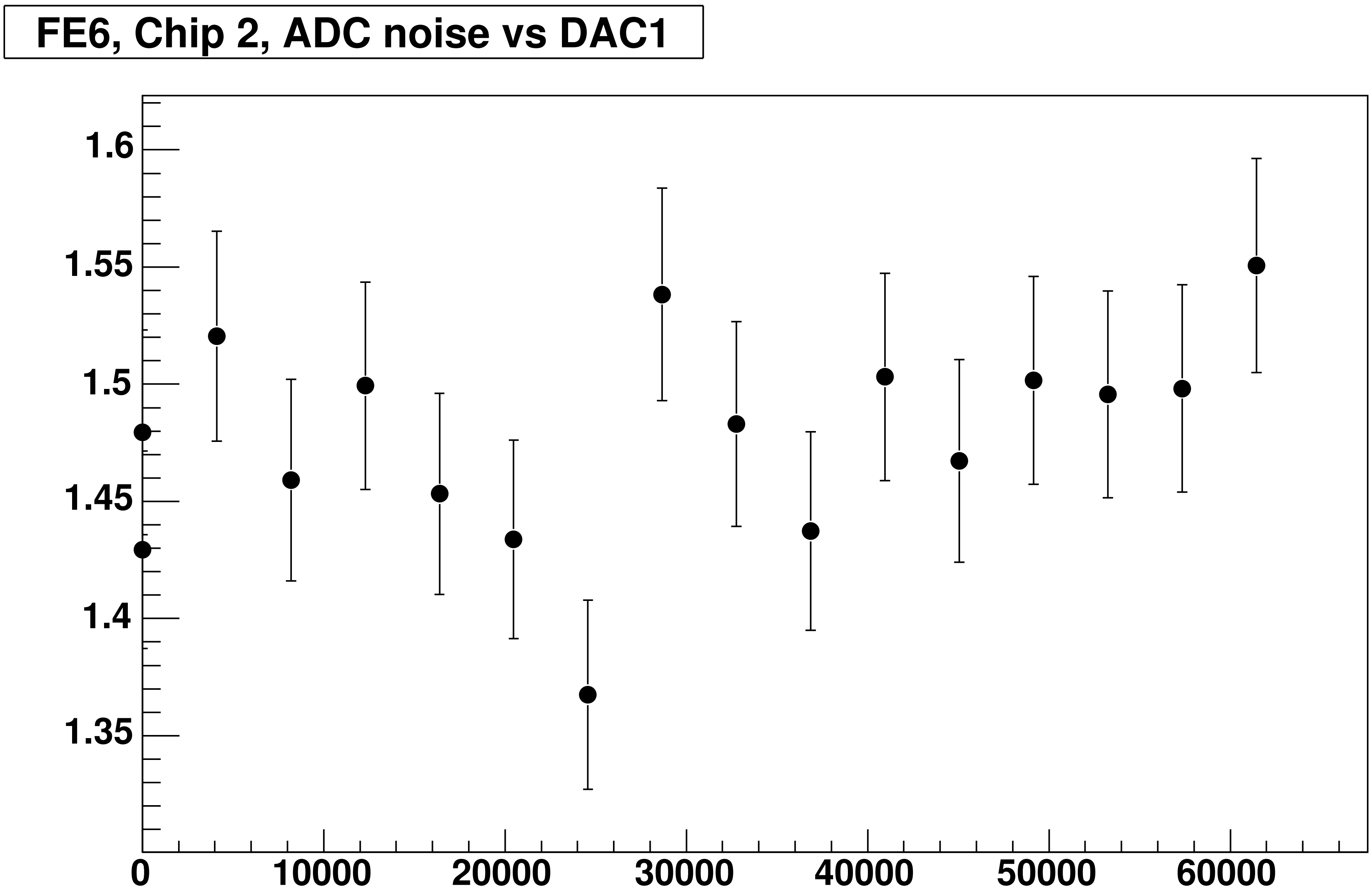
FE6, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1373 / 11
p0 -44.85 ± 0.04232
p1 0.4505 ± 1.353e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

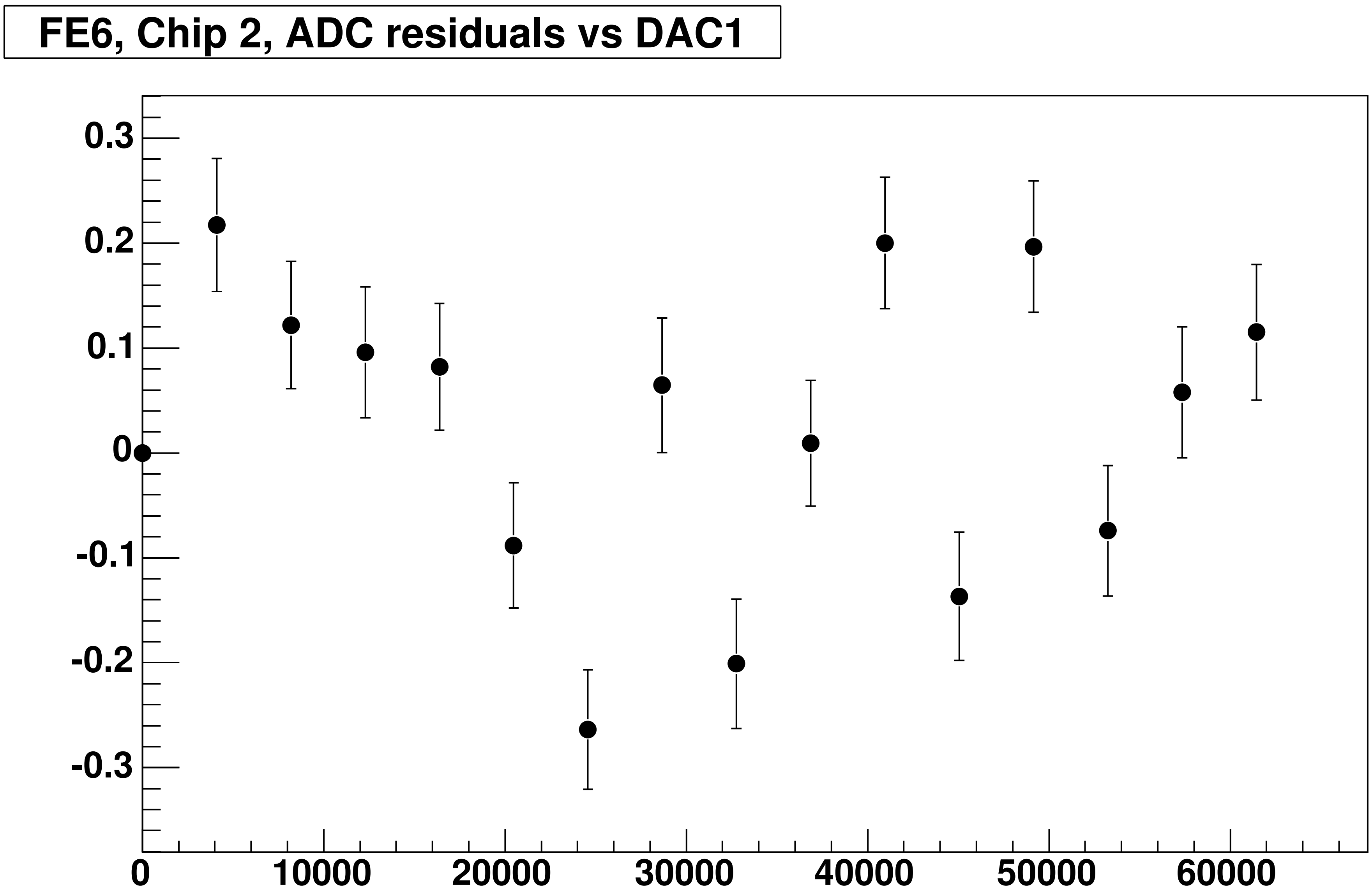


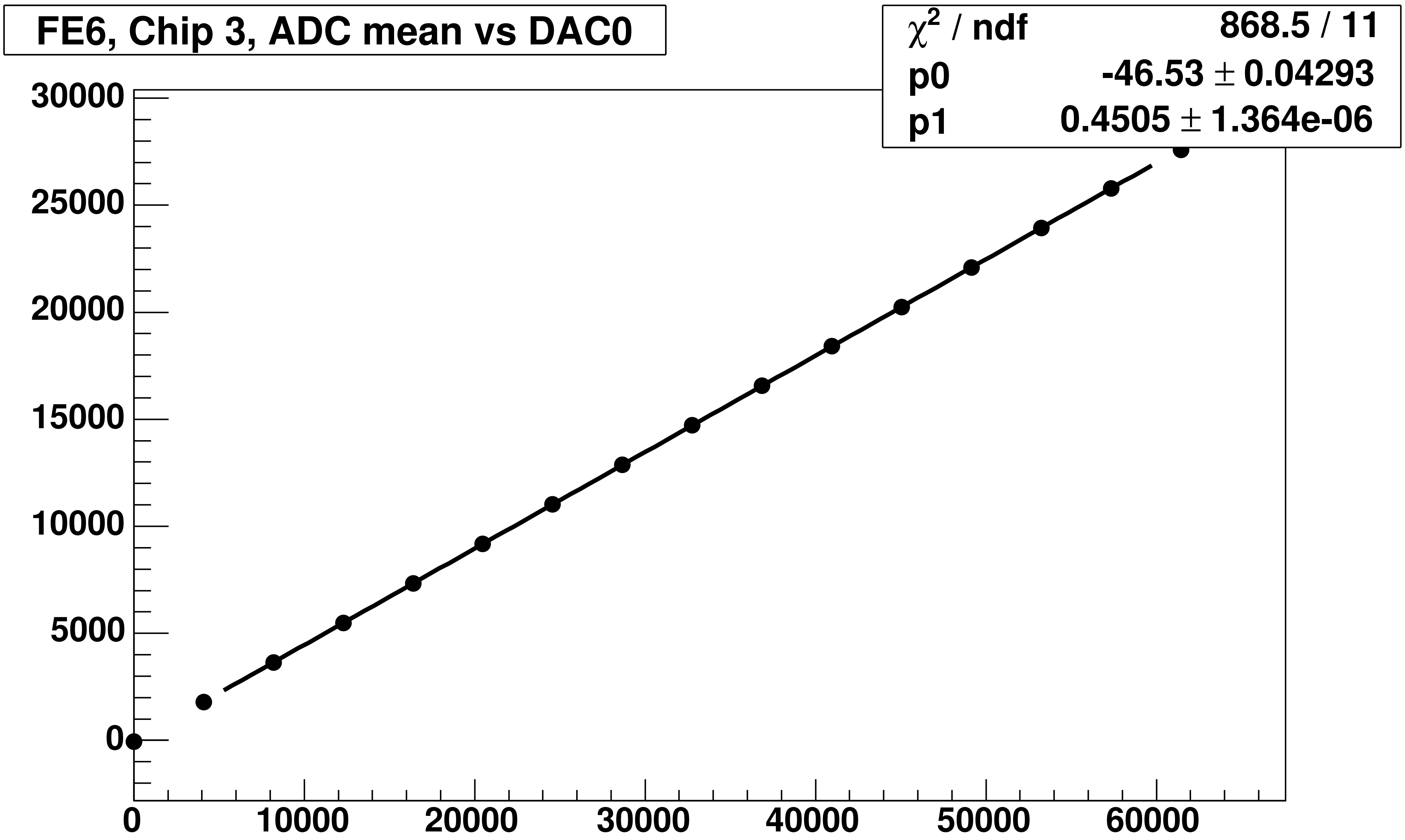
FE6, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE6, Chip 2, ADC mean vs DAC1
χ^2 / ndf 70.74 / 11
p0 -46.44 ± 0.03998
p1 1.268e-06 ± 1.115e-06
-46.1
-46.2
-46.3
-46.4
-46.5
-46.6
-46.7
0
10000
20000
30000
40000
50000
60000

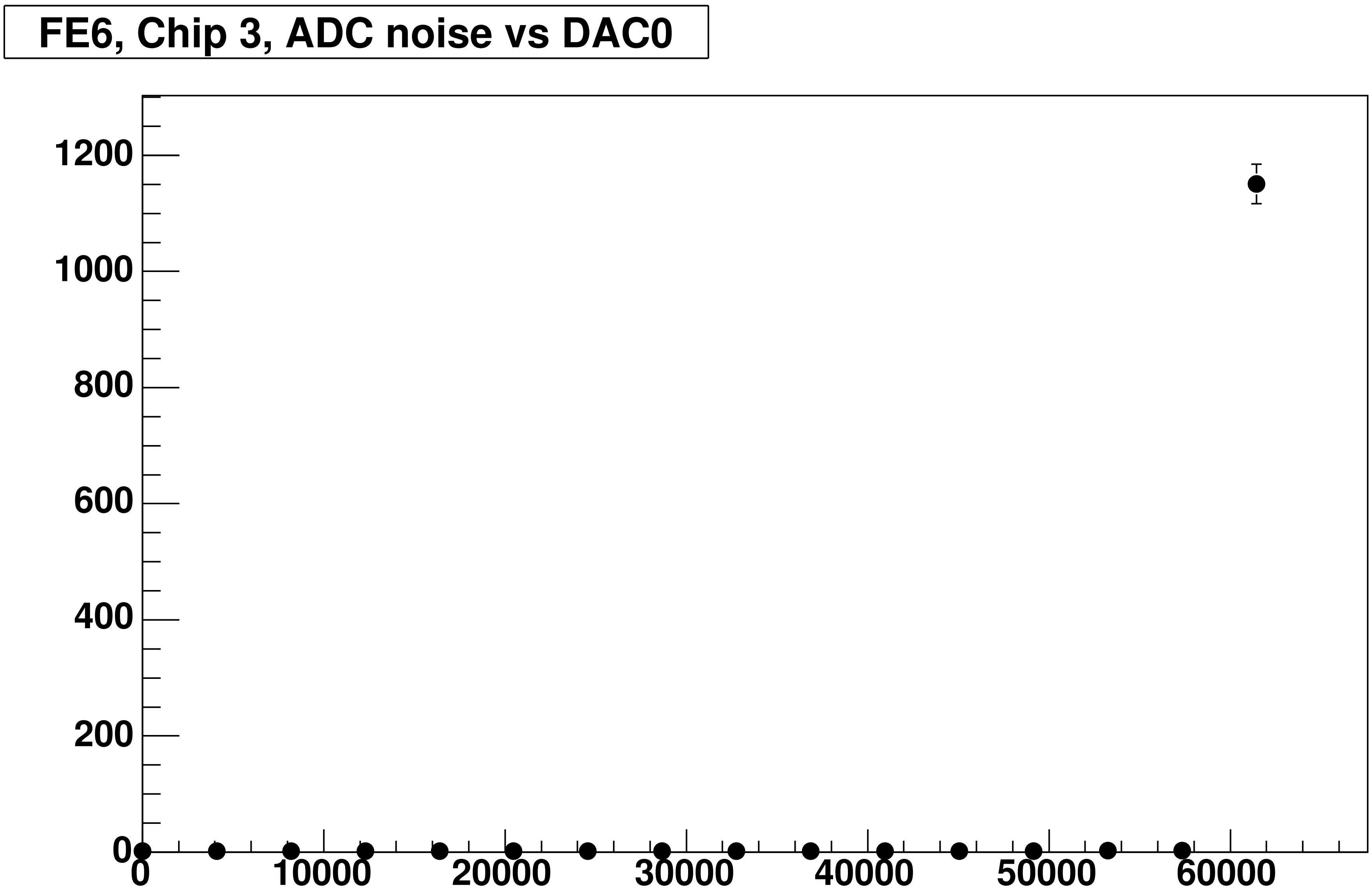


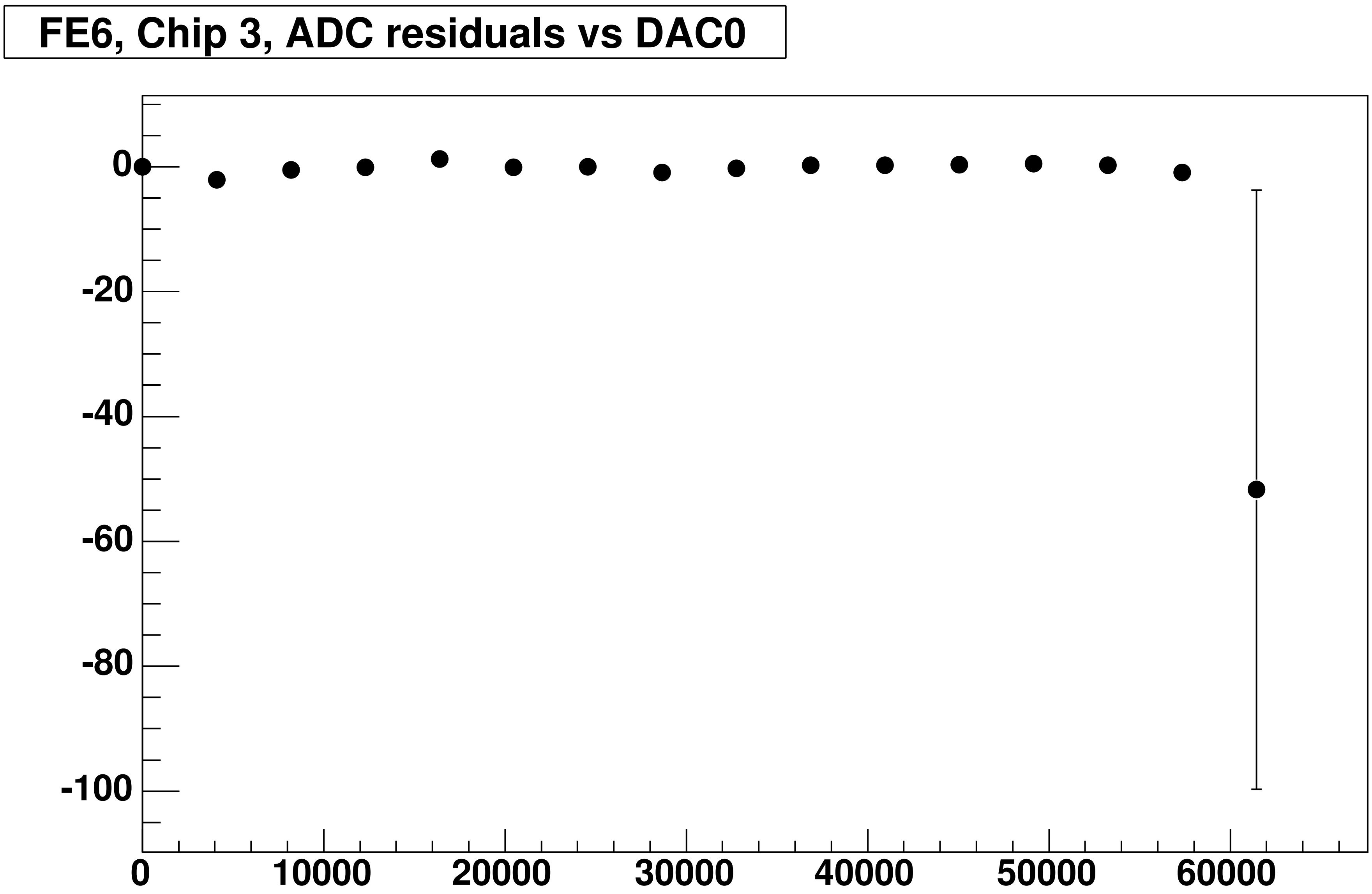
FE6, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

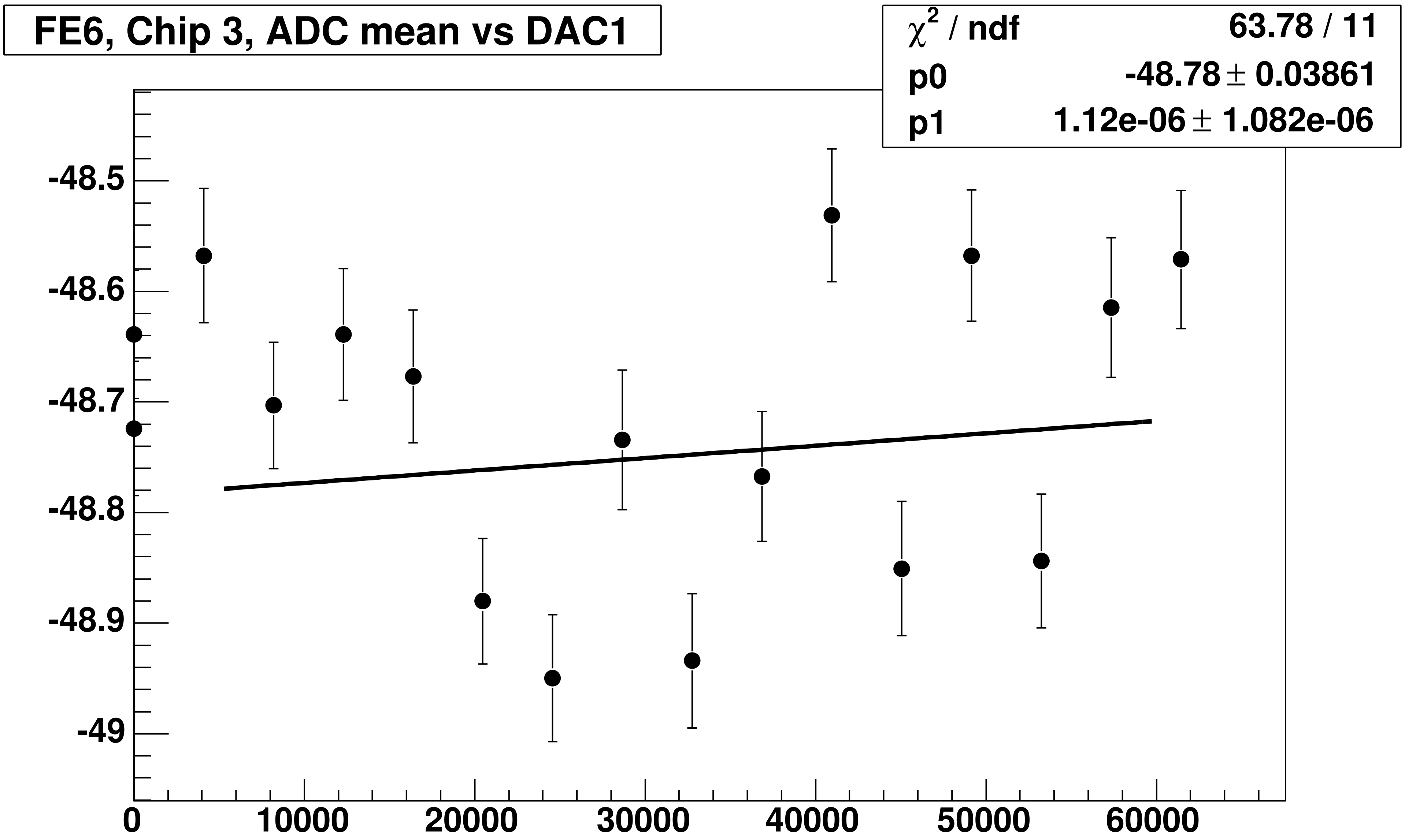

FE6, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

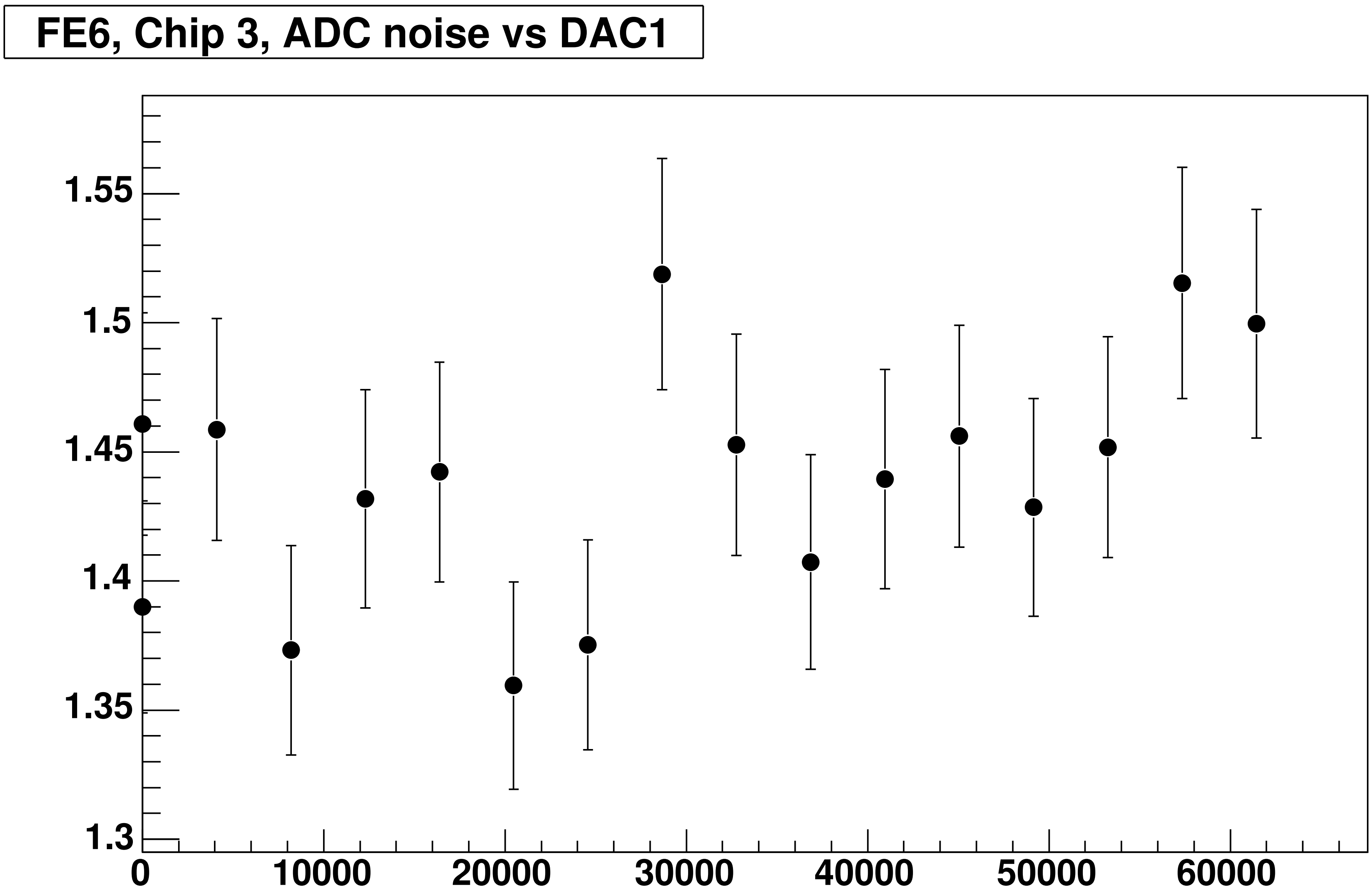


FE6, Chip 3, ADC mean vs DAC0
χ2 / ndf 868.5 / 11
p0 -46.53 ± 0.04293
p1 0.4505 ± 1.364e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

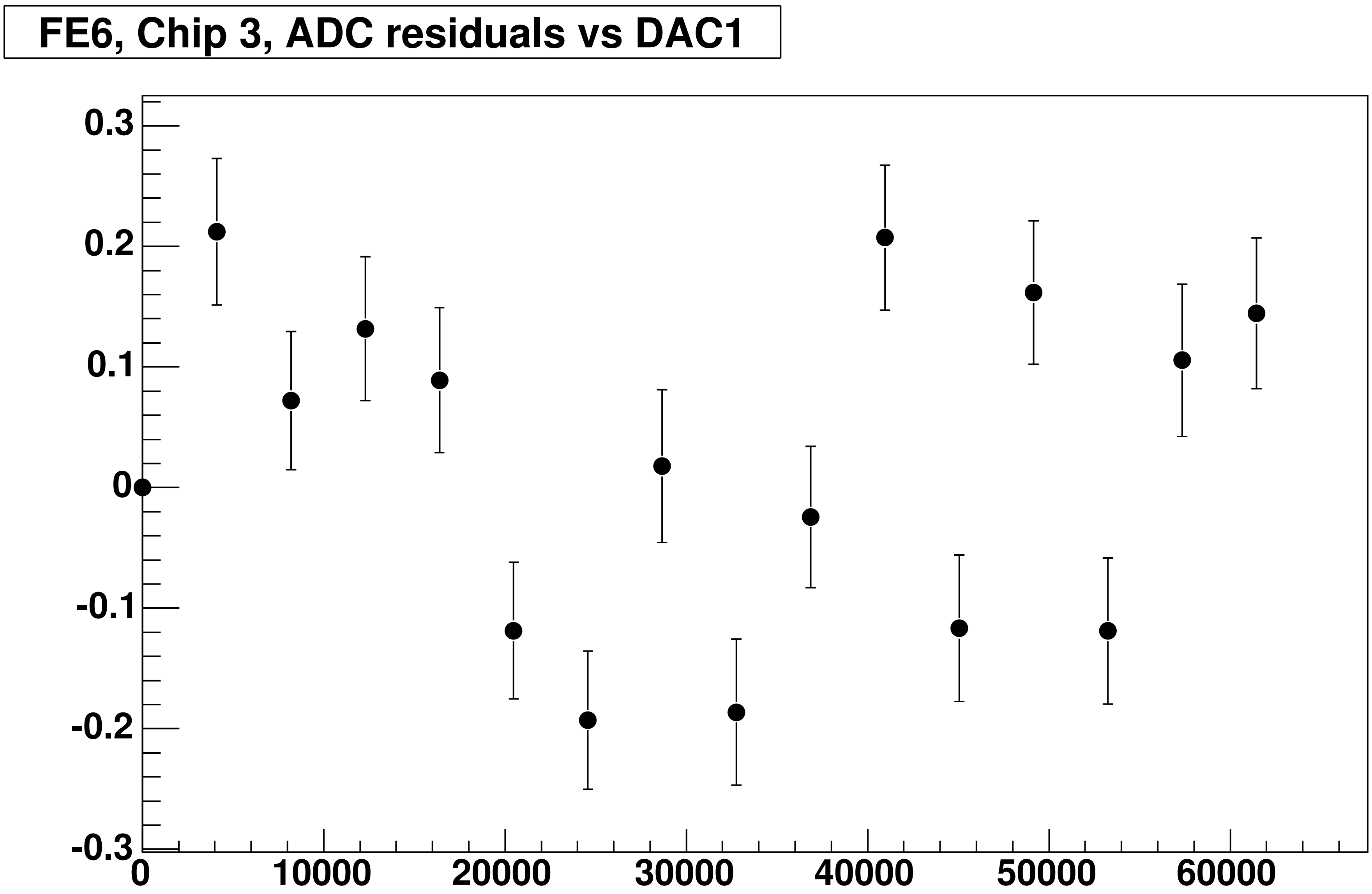

FE6, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

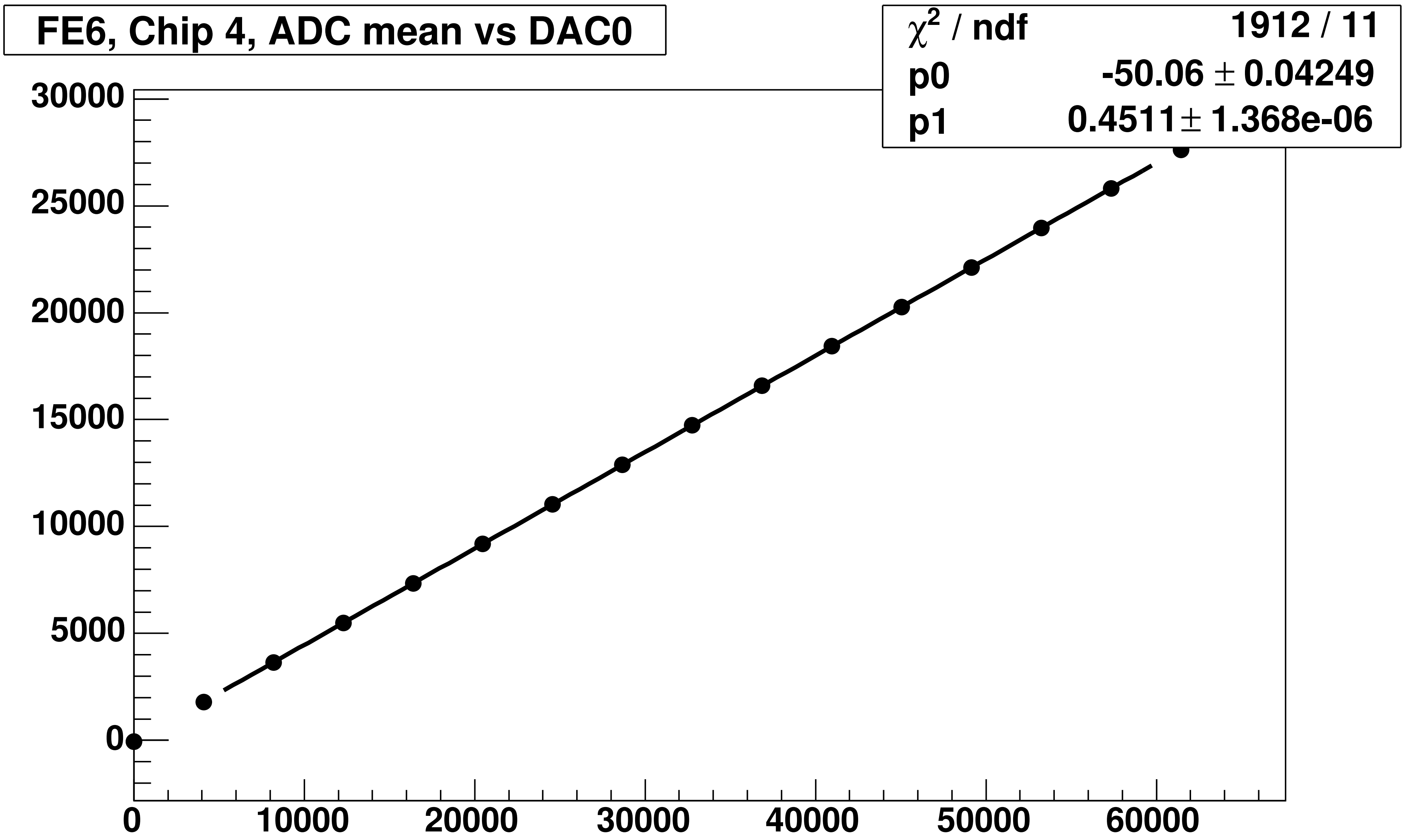

FE6, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

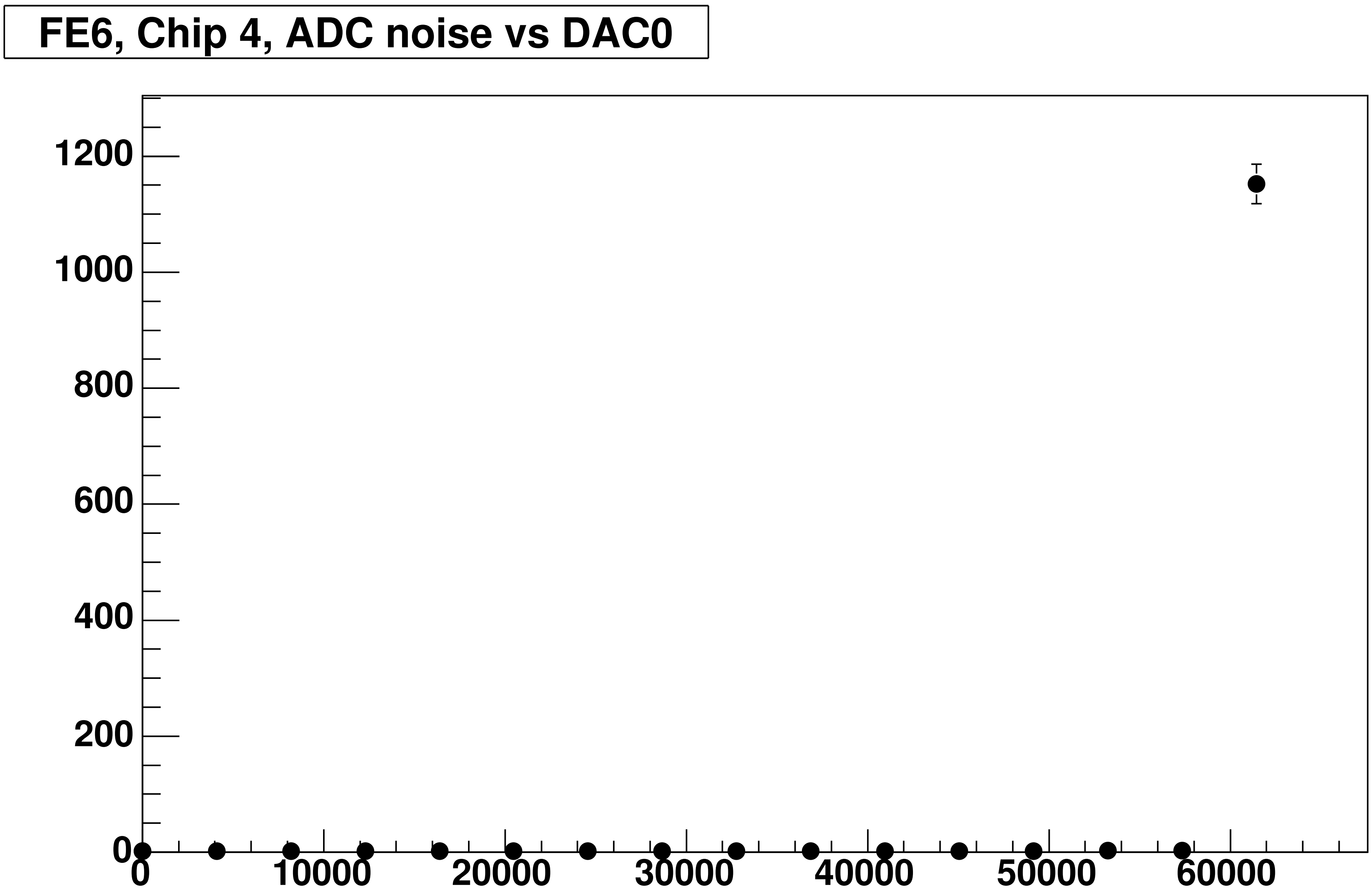

FE6, Chip 3, ADC mean vs DAC1
χ^2 / ndf 63.78 / 11
p0 -48.78 ± 0.03861
p1 1.12e-06 ± 1.082e-06
-48.5
-48.6
-48.7
-48.8
-48.9
-49
0
10000
20000
30000
40000
50000
60000

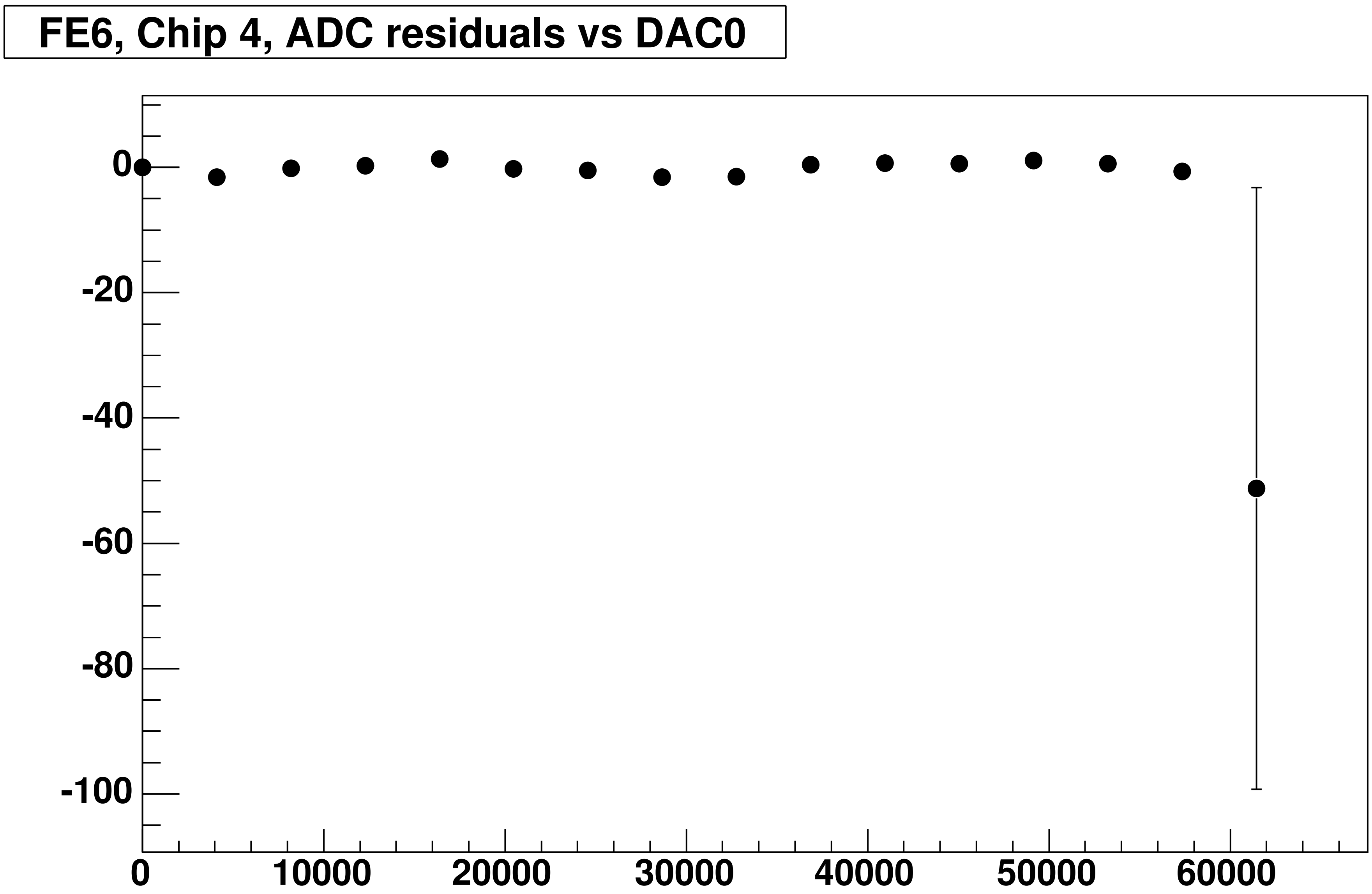


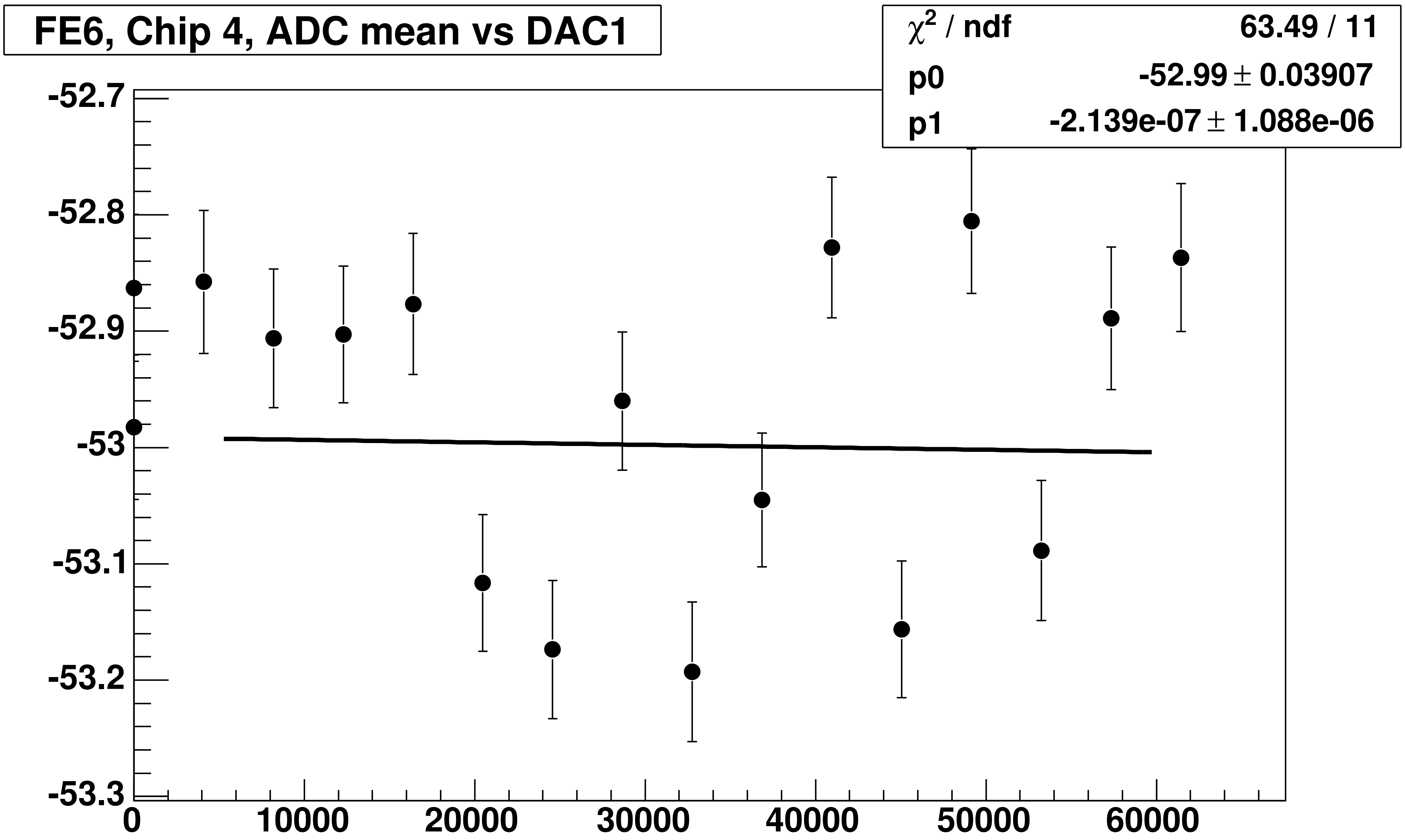
FE6, Chip 3, ADC noise vs DAC1
1.3
1.35
1.4
1.45
1.5
1.55
0
10000
20000
30000
40000
50000
60000

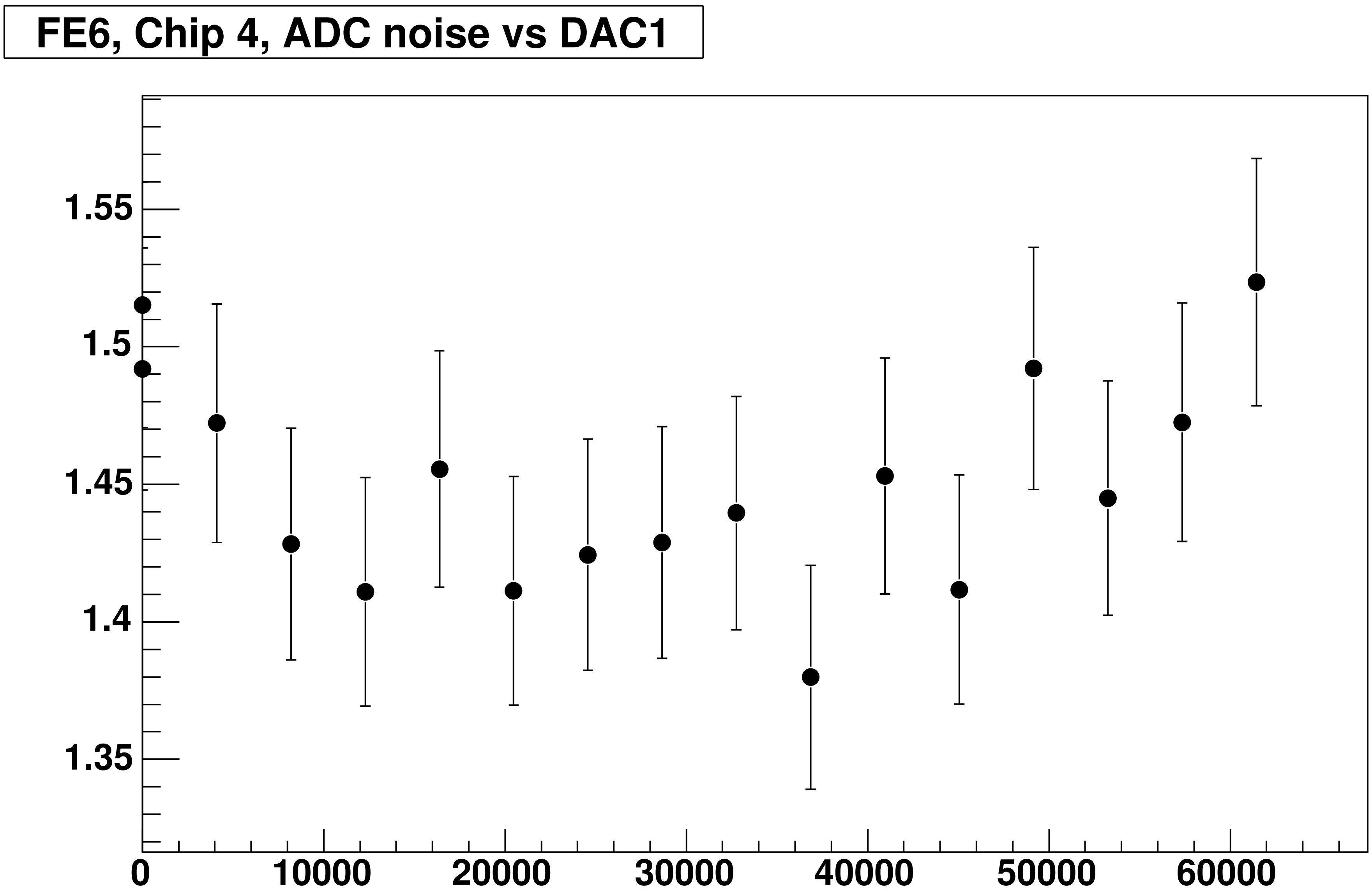

FE6, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

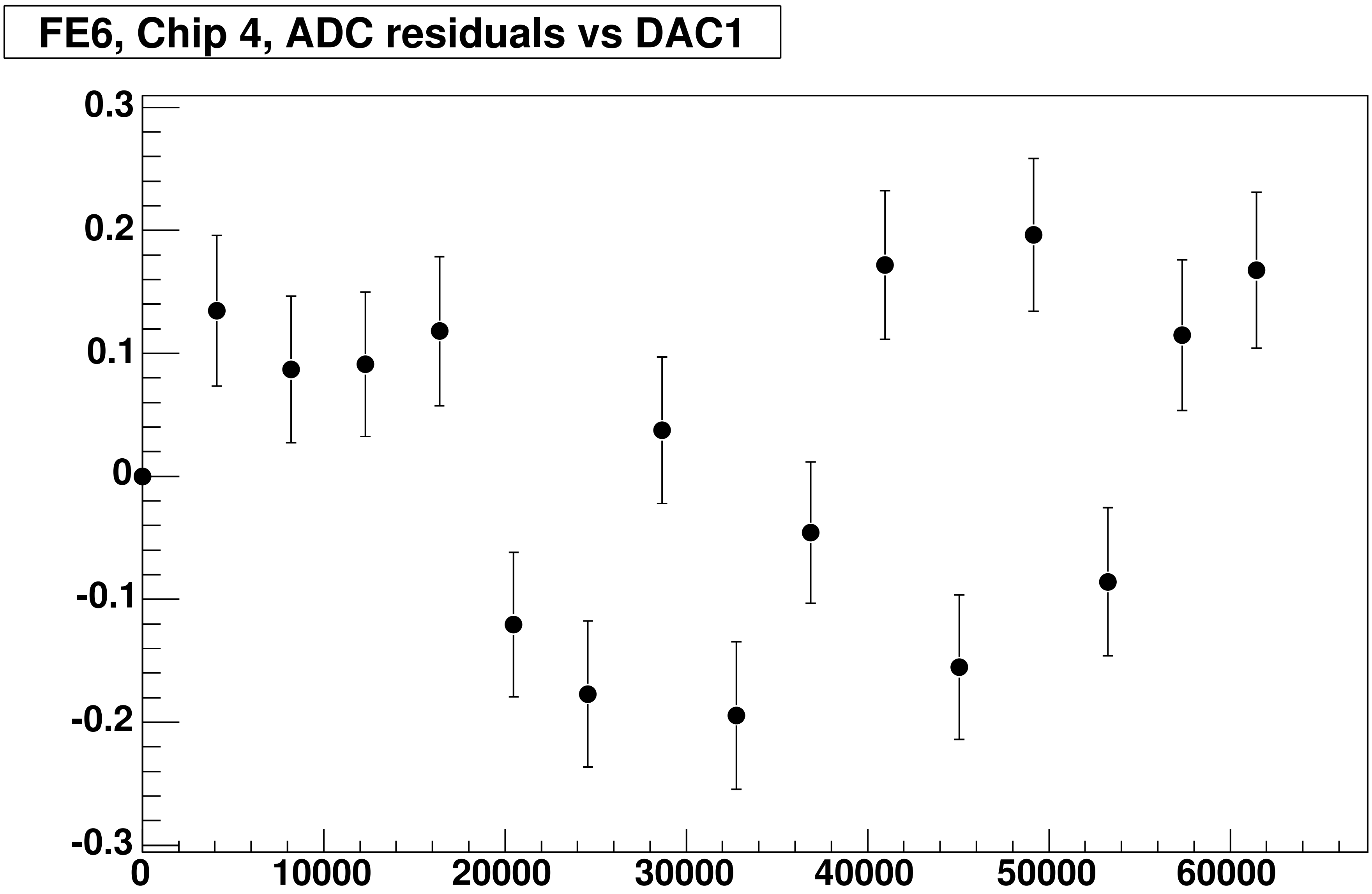

FE6, Chip 4, ADC mean vs DAC0
χ2 / ndf 1912 / 11
p0 -50.06 ± 0.04249
p1 0.4511± 1.368e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

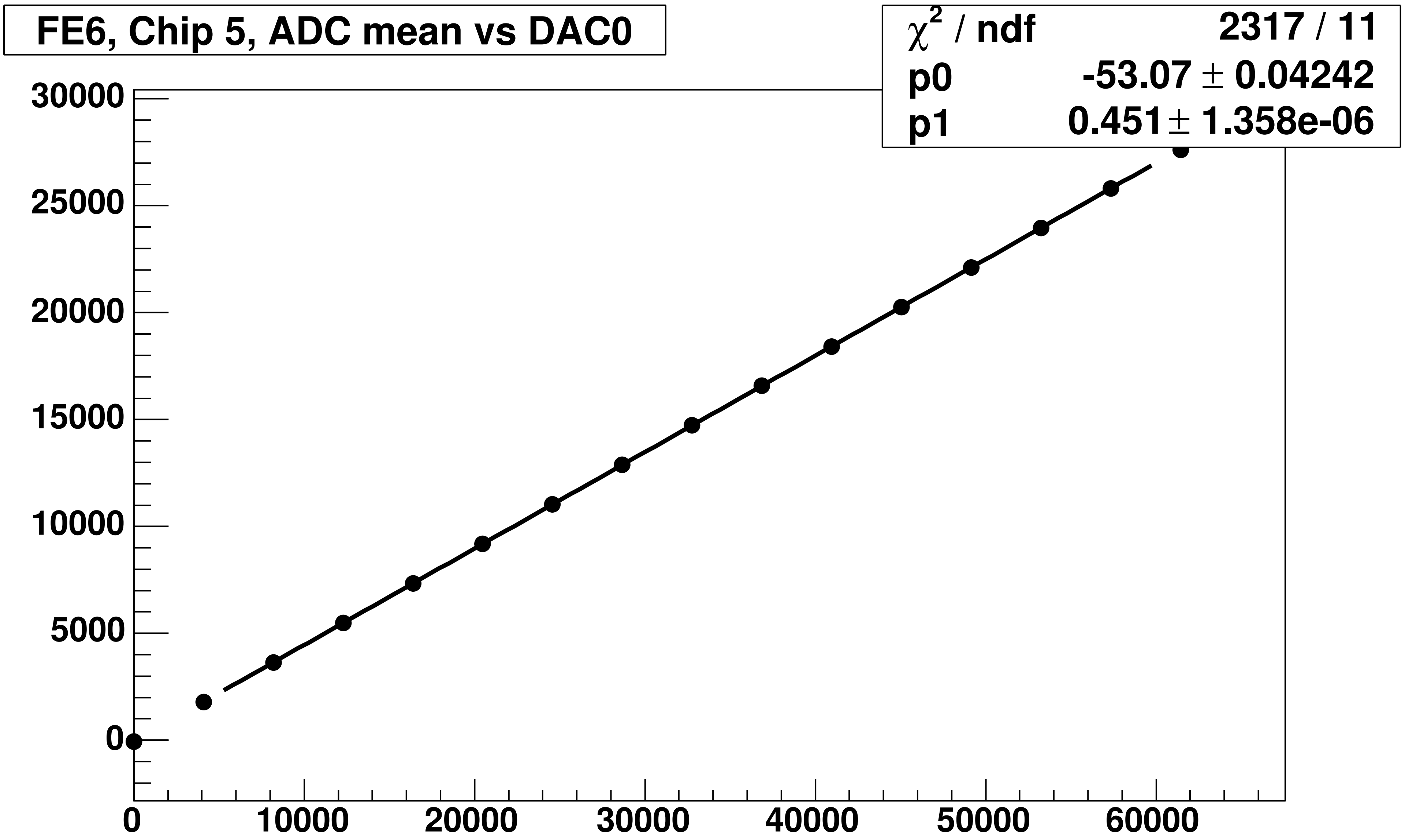

FE6, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE6, Chip 4, ADC mean vs DAC1
χ² / ndf 63.49 / 11
p0 -52.99 ± 0.03907
p1 -2.139e-07 ± 1.088e-06
-52.7
-52.8
-52.9
-53
-53.1
-53.2
-53.3
0
10000
20000
30000
40000
50000
60000

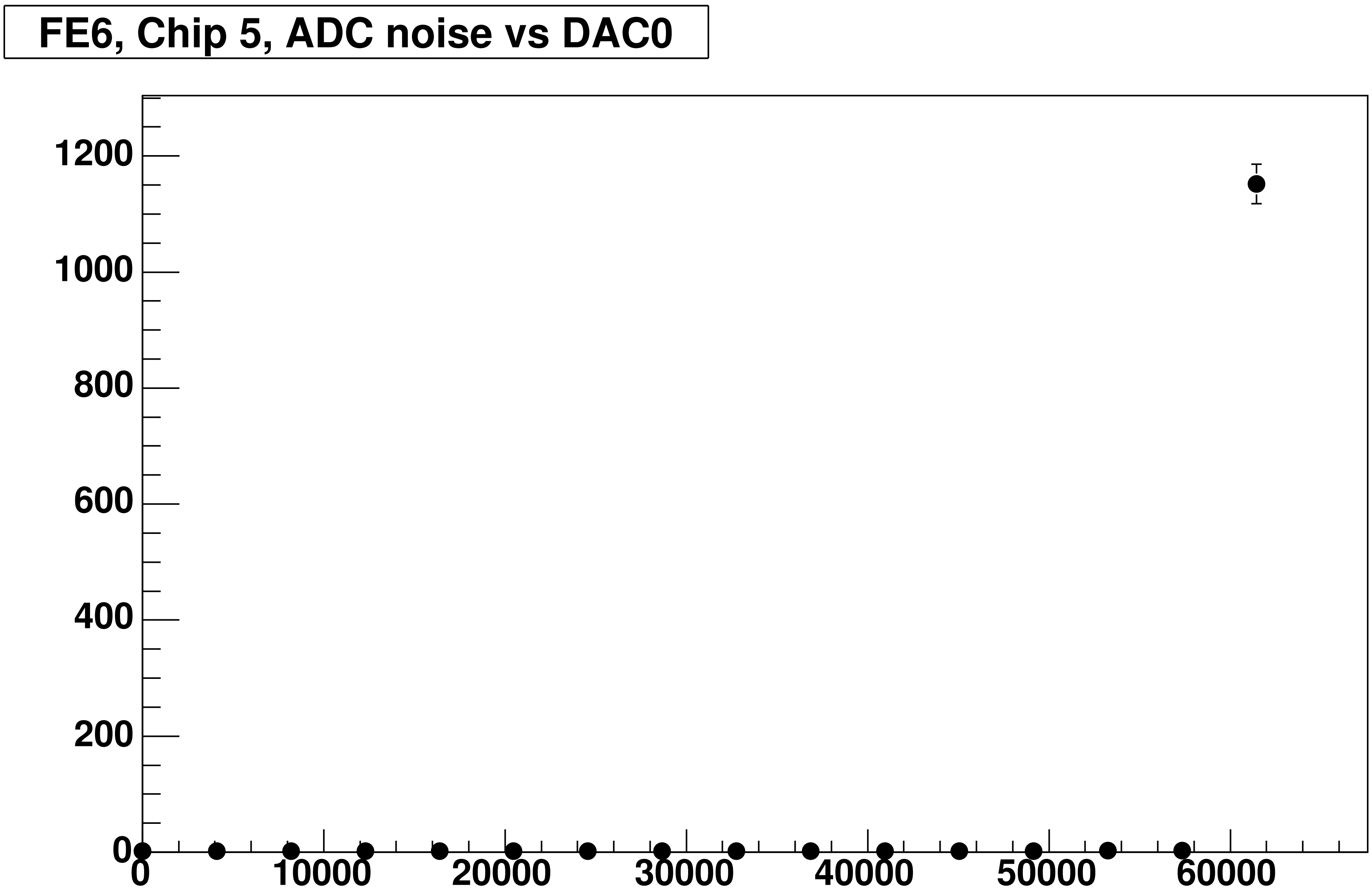

FE6, Chip 4, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

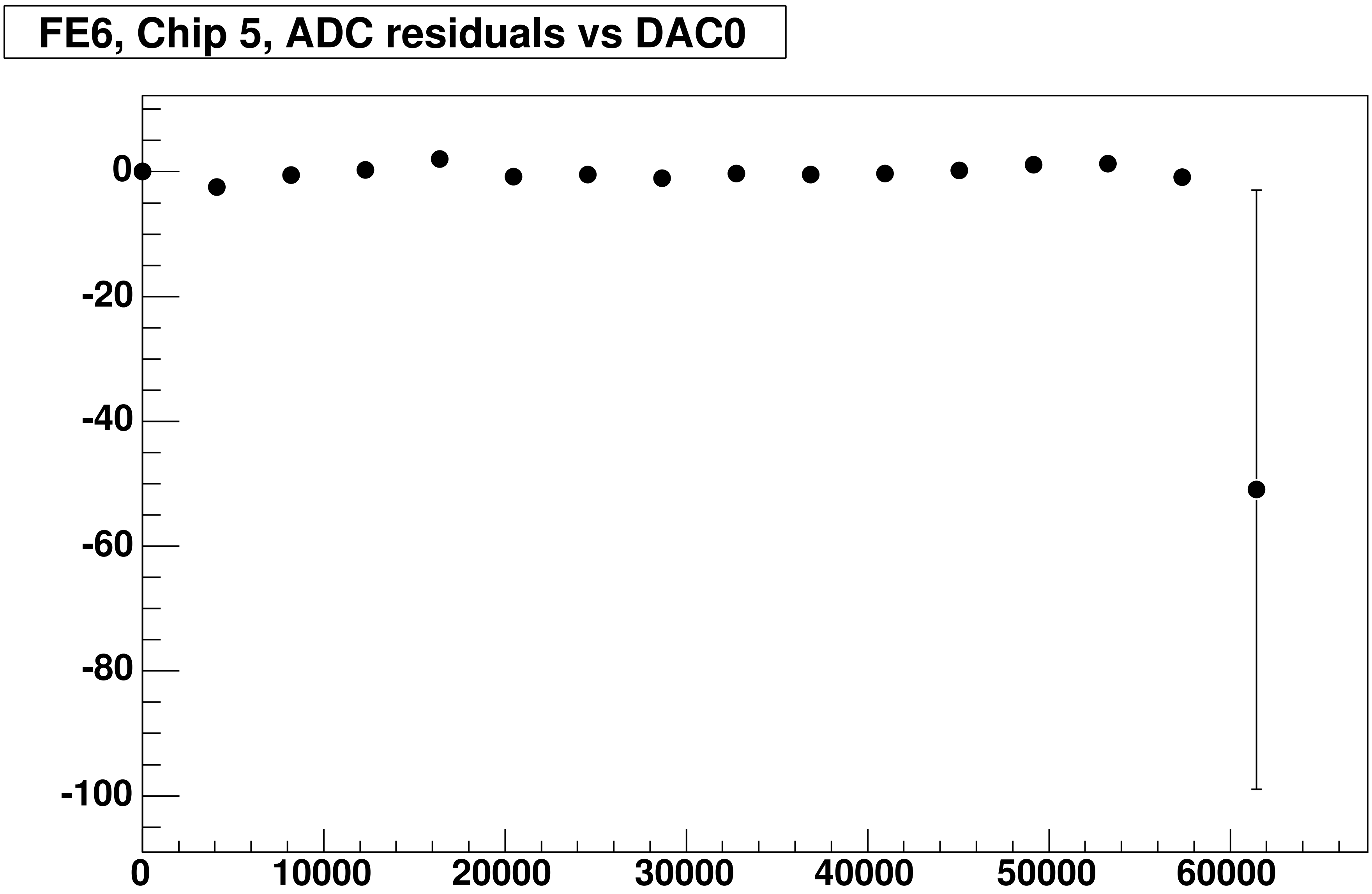


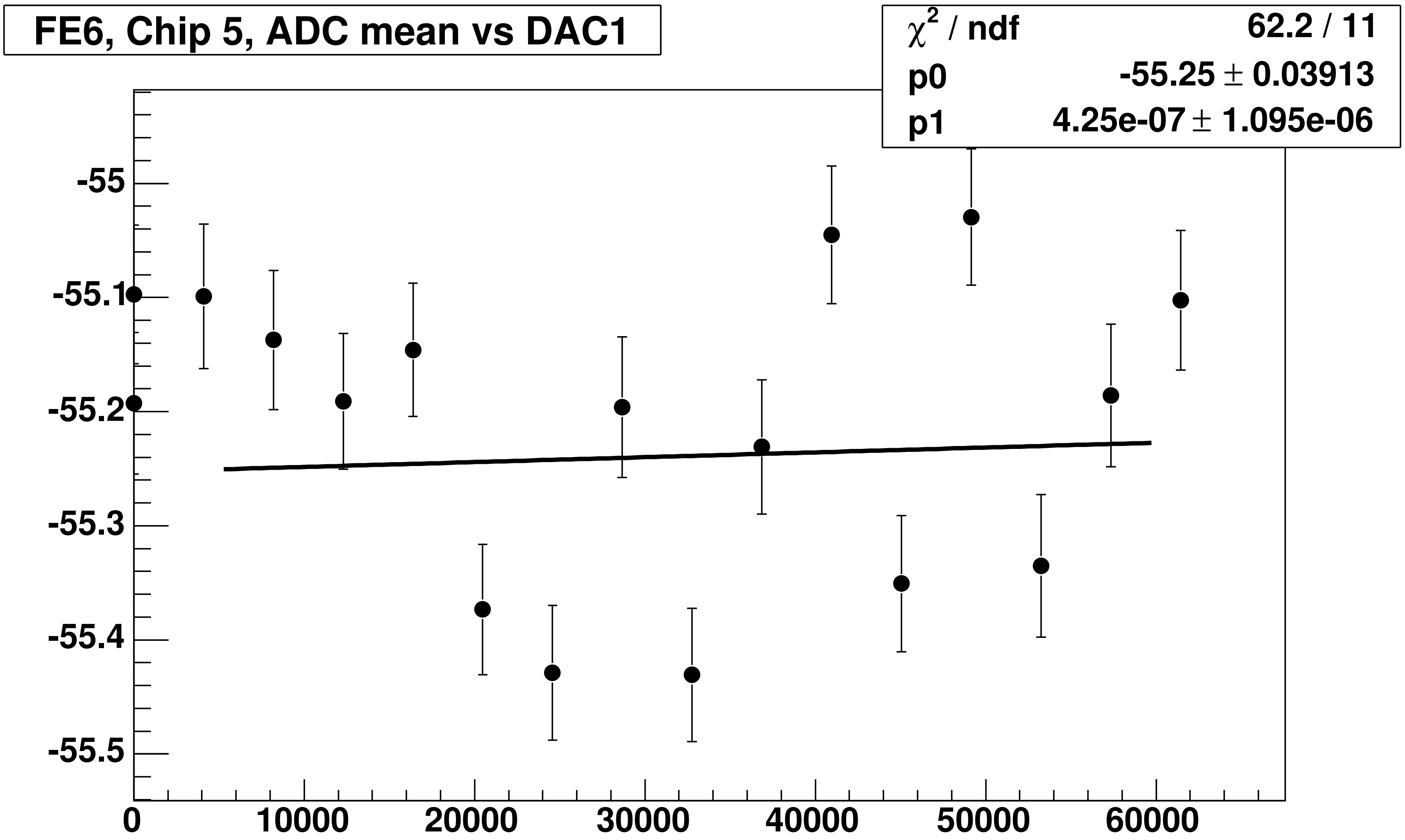
FE6, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



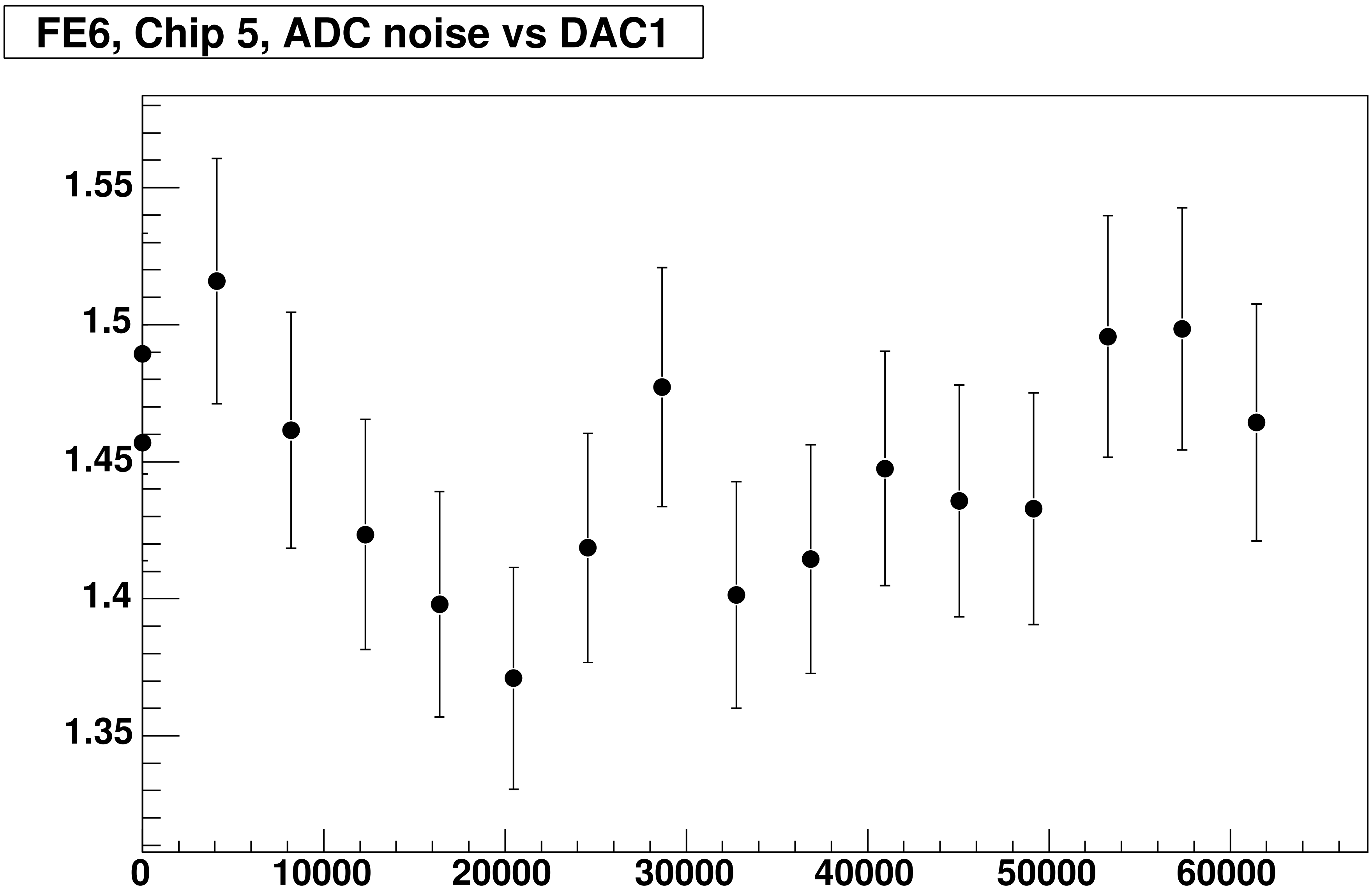
FE6, Chip 5, ADC mean vs DAC0
χ² / ndf 2317 / 11
p0 -53.07 ± 0.04242
p1 0.451 ± 1.358e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

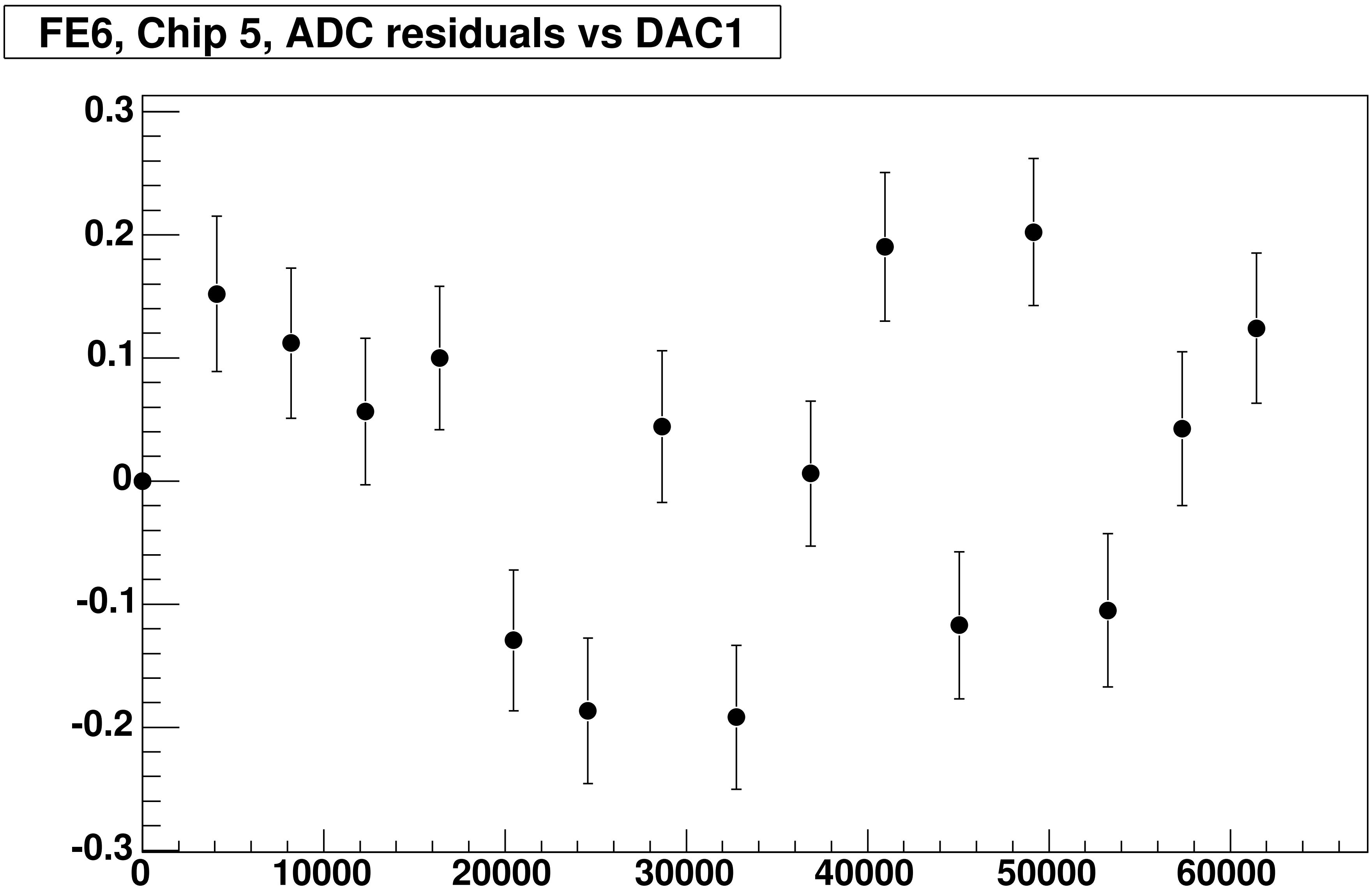

FE6, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

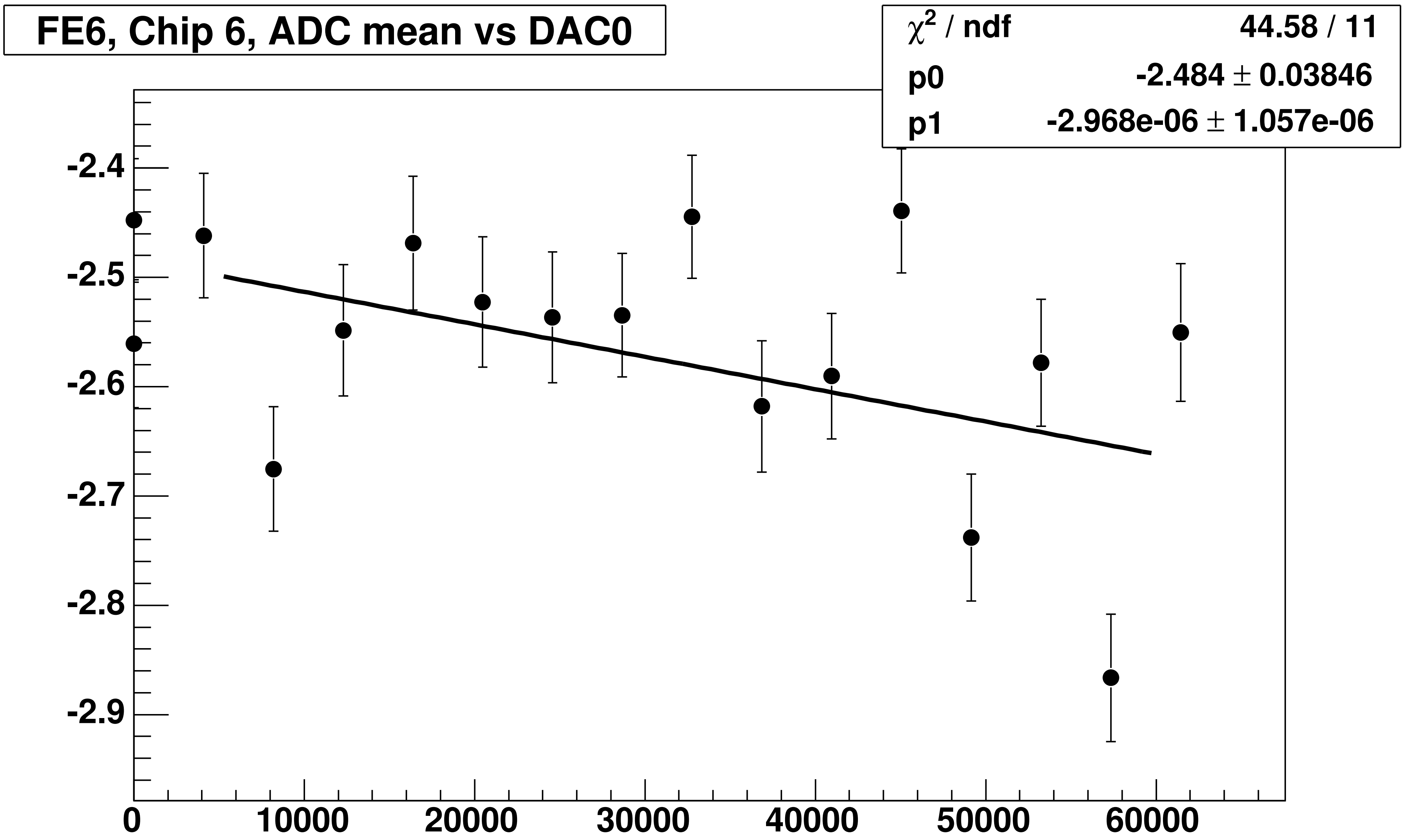

FE6, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



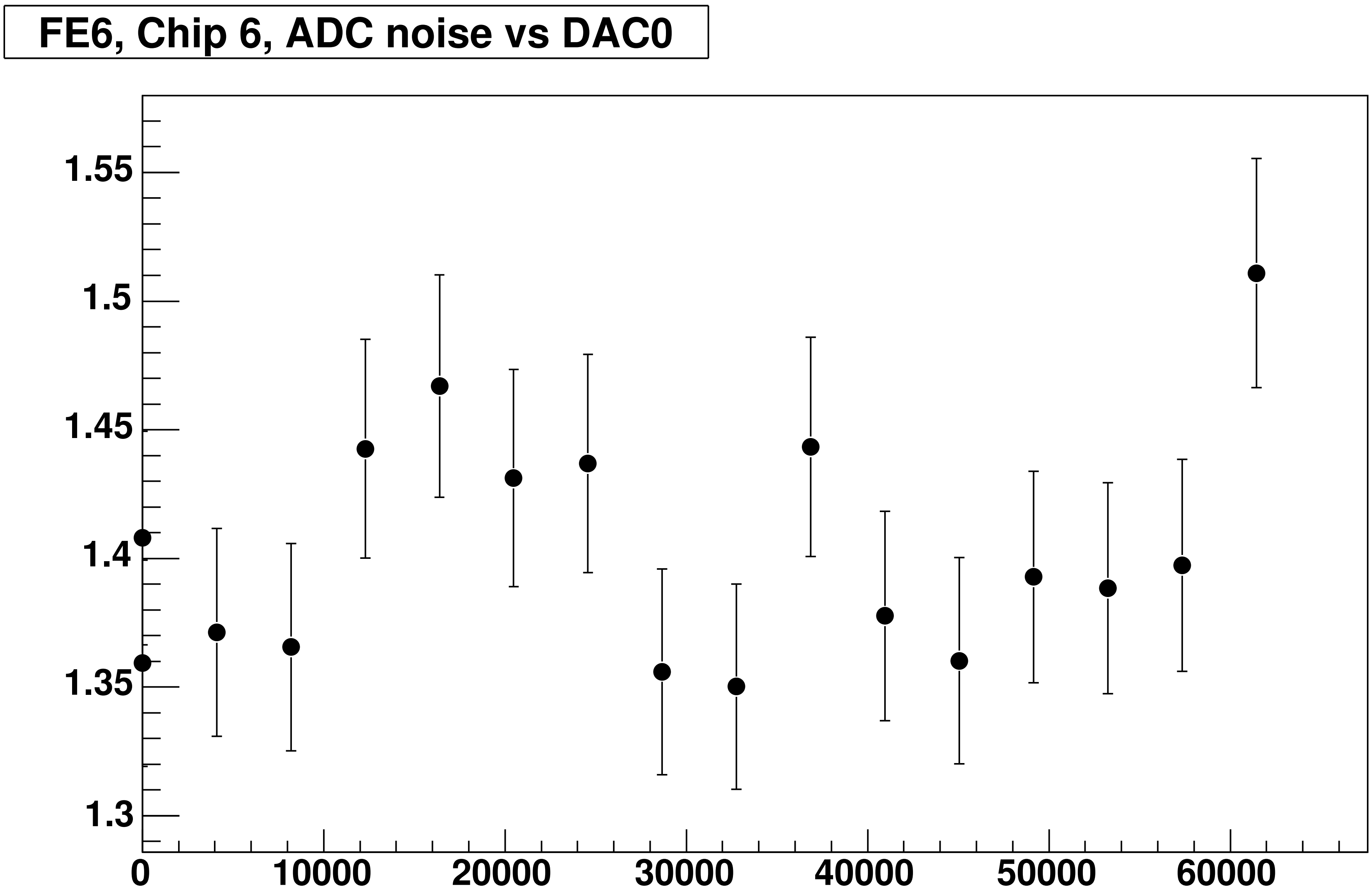
FE6, Chip 5, ADC mean vs DAC1
χ^2 / ndf 62.2 / 11
p0 -55.25 ± 0.03913
p1 4.25e-07 ± 1.095e-06
-55
-55.1
-55.2
-55.3
-55.4
-55.5
0
10000
20000
30000
40000
50000
60000

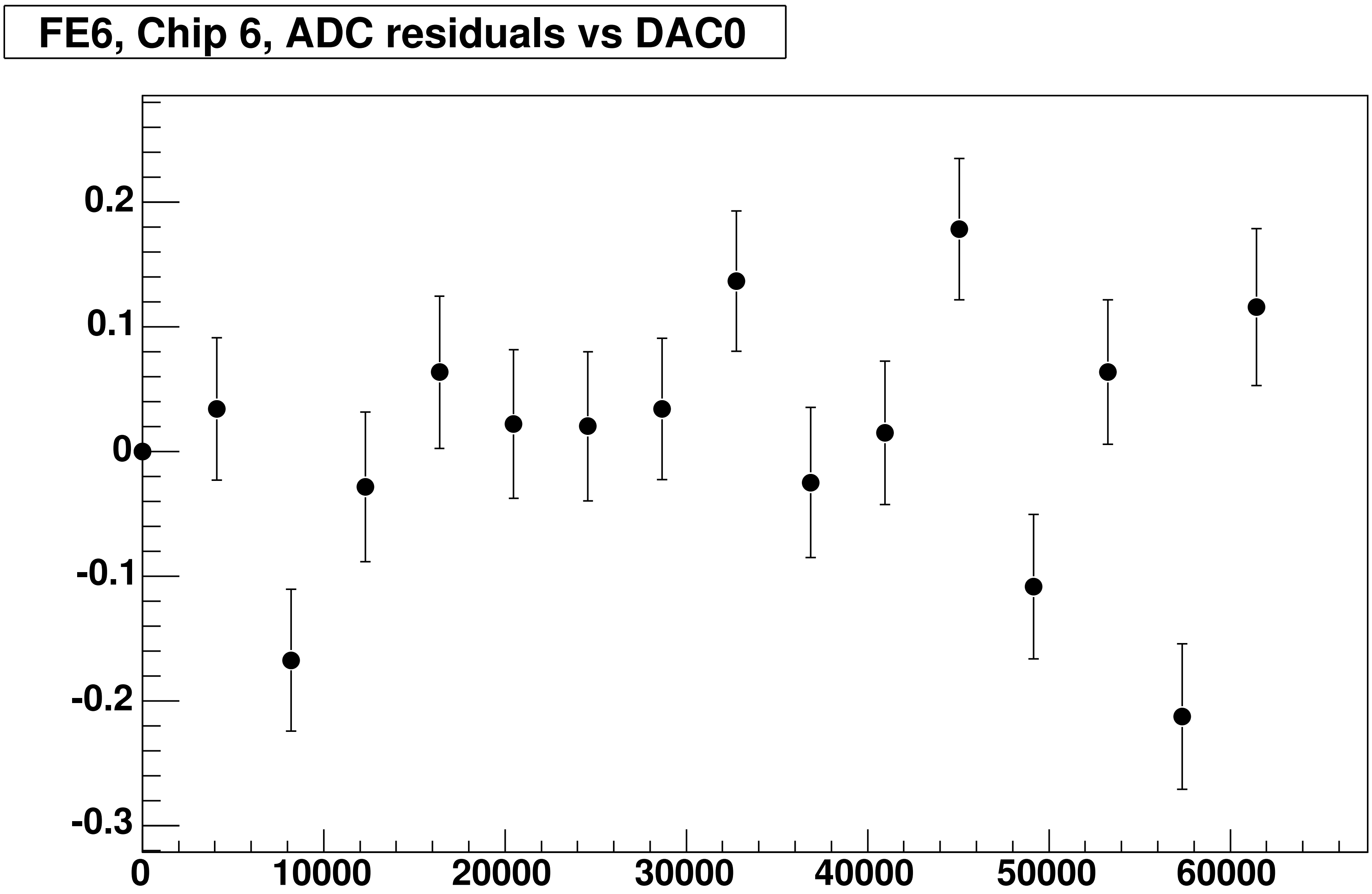

FE6, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

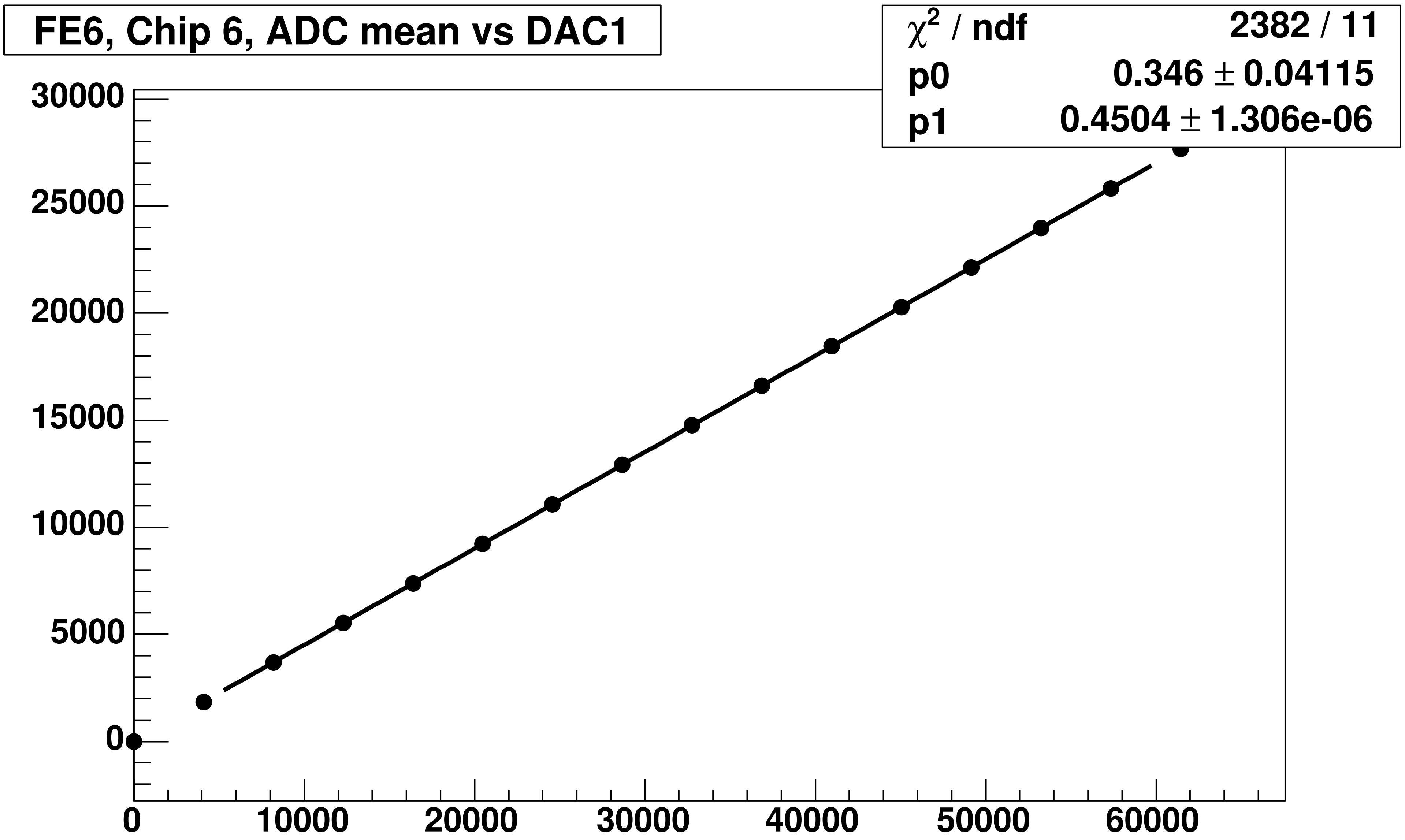


FE6, Chip 6, ADC mean vs DAC0
χ^2 / ndf 44.58 / 11
p0 -2.484 ± 0.03846
p1 -2.968e-06 ± 1.057e-06
-2.4
-2.5
-2.6
-2.7
-2.8
-2.9
0
10000
20000
30000
40000
50000
60000

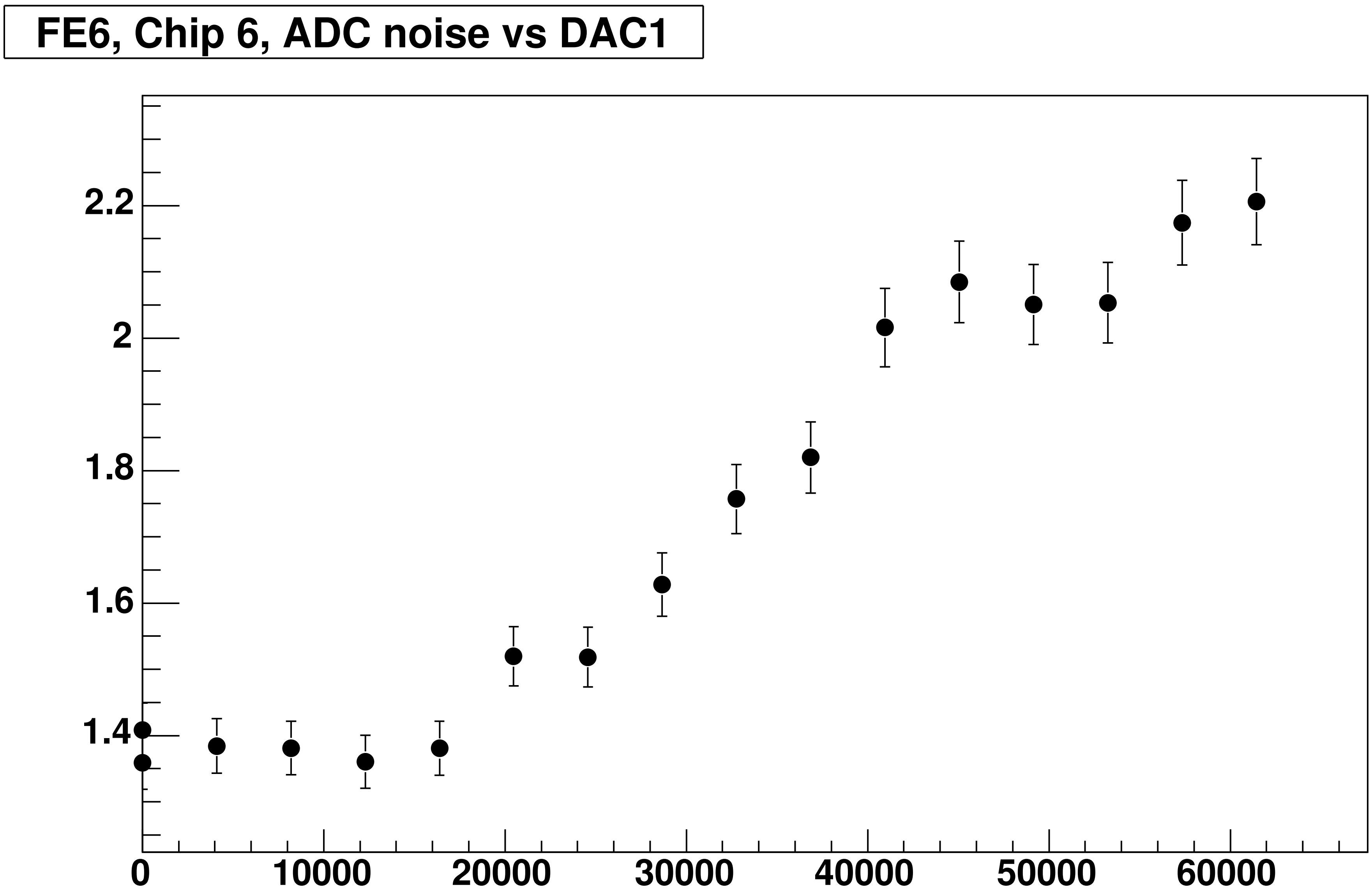

FE6, Chip 6, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



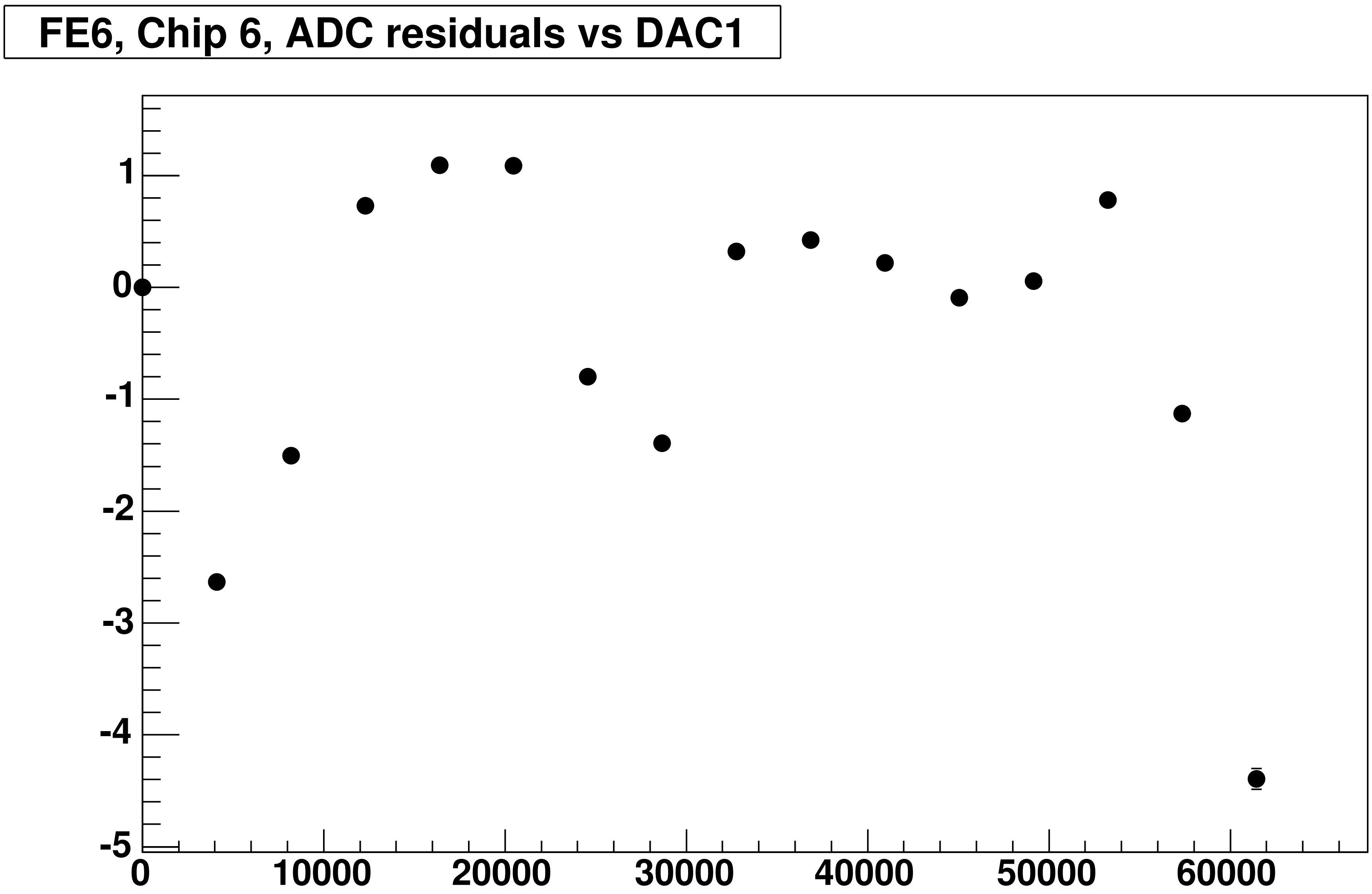
FE6, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

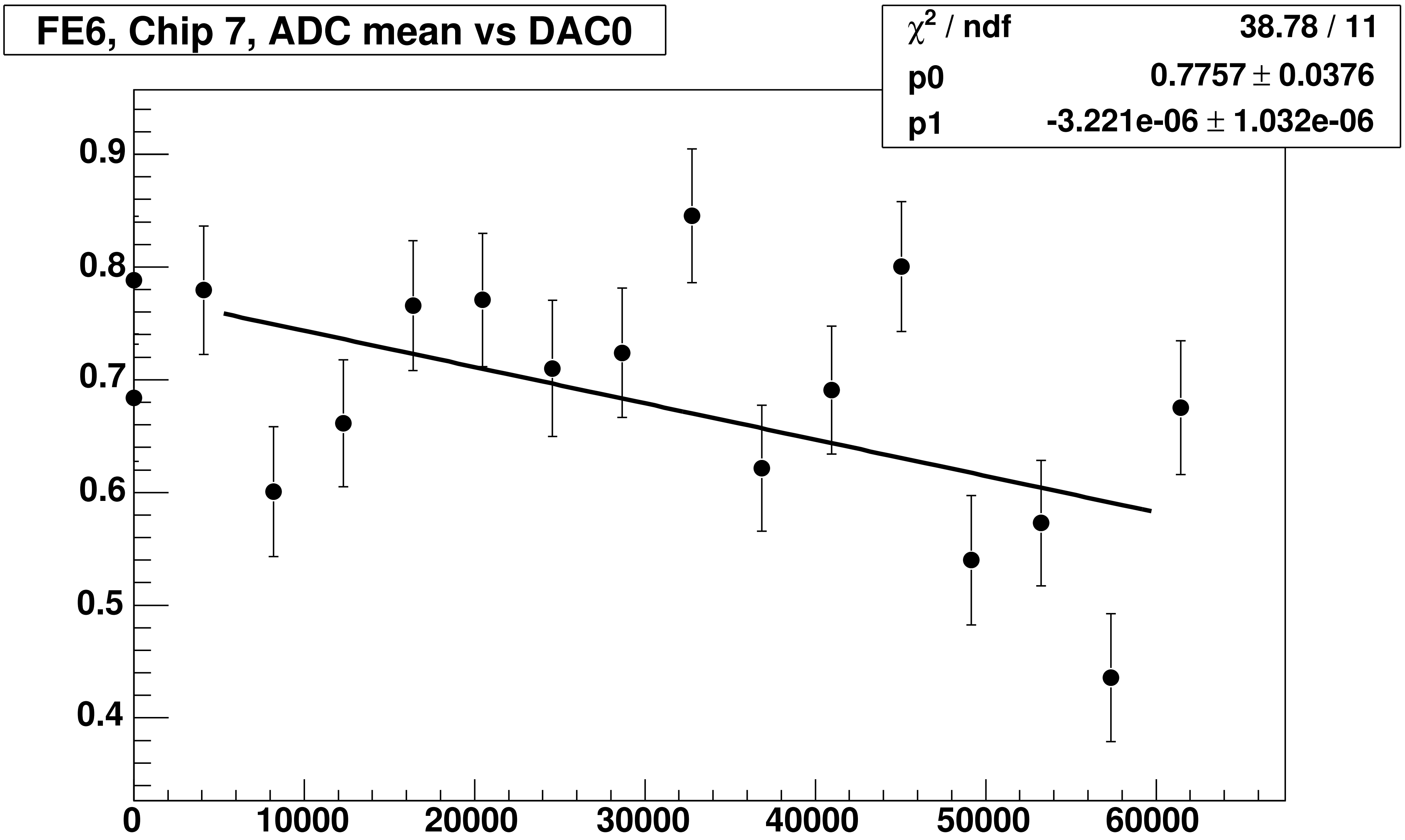


FE6, Chip 6, ADC mean vs DAC1
χ^2 / ndf 2382 / 11
p0 0.346 ± 0.04115
p1 0.4504 ± 1.306e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

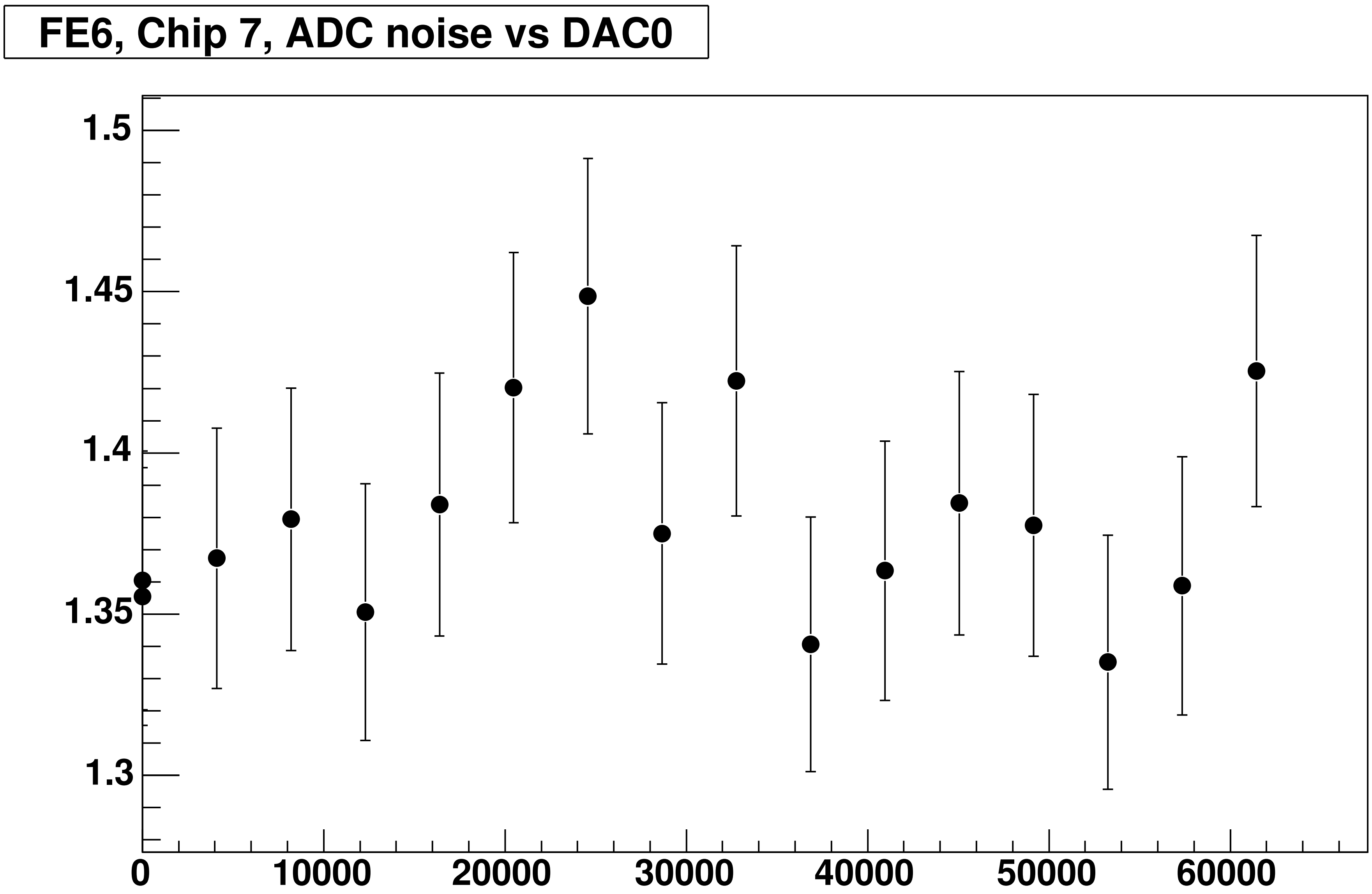


FE6, Chip 6, ADC noise vs DAC1
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

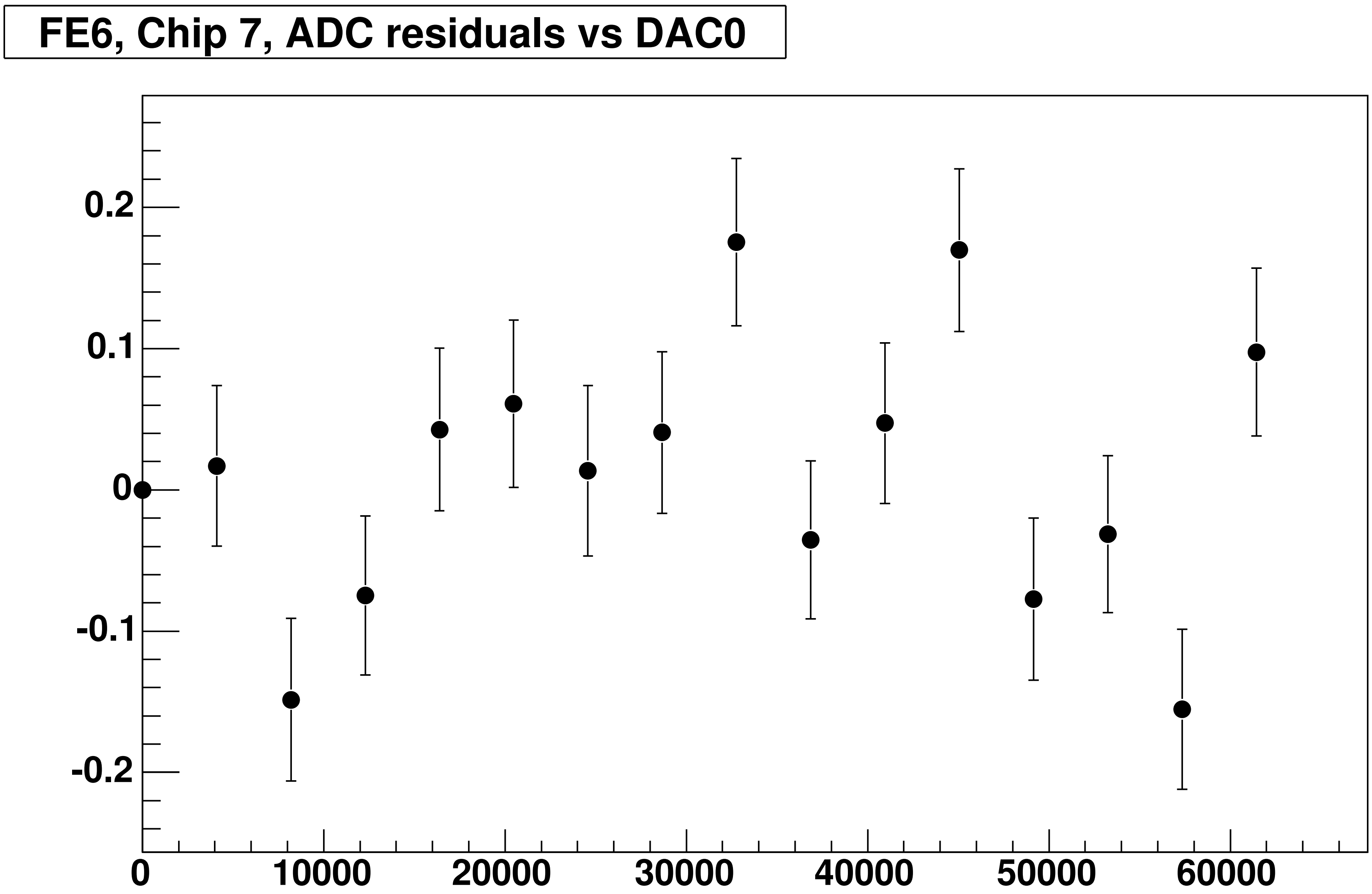

FE6, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

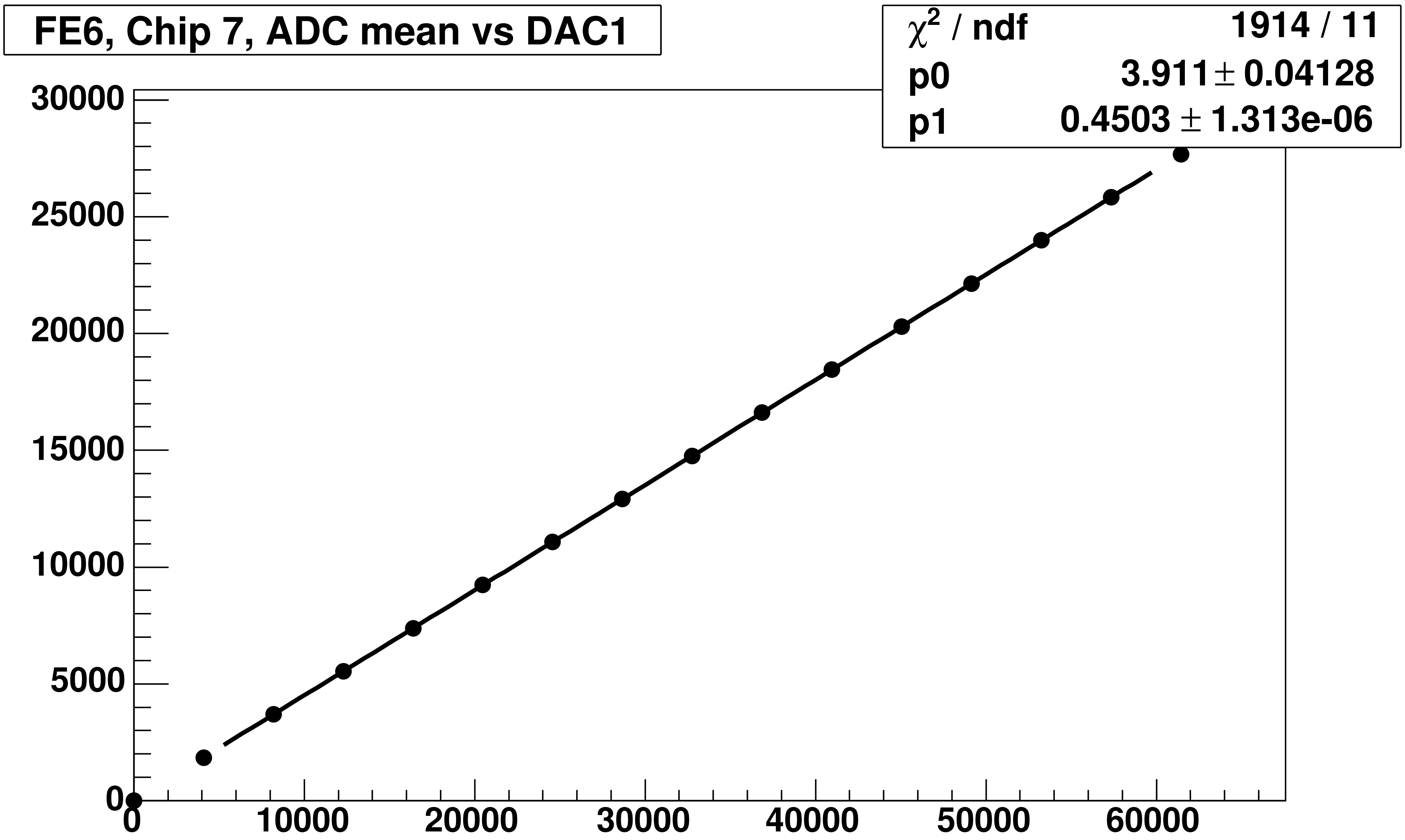


FE6, Chip 7, ADC mean vs DAC0
χ^2 / ndf 38.78 / 11
p0 0.7757 ± 0.0376
p1 -3.221e-06 ± 1.032e-06
0.9
0.8
0.7
0.6
0.5
0.4
0
10000
20000
30000
40000
50000
60000

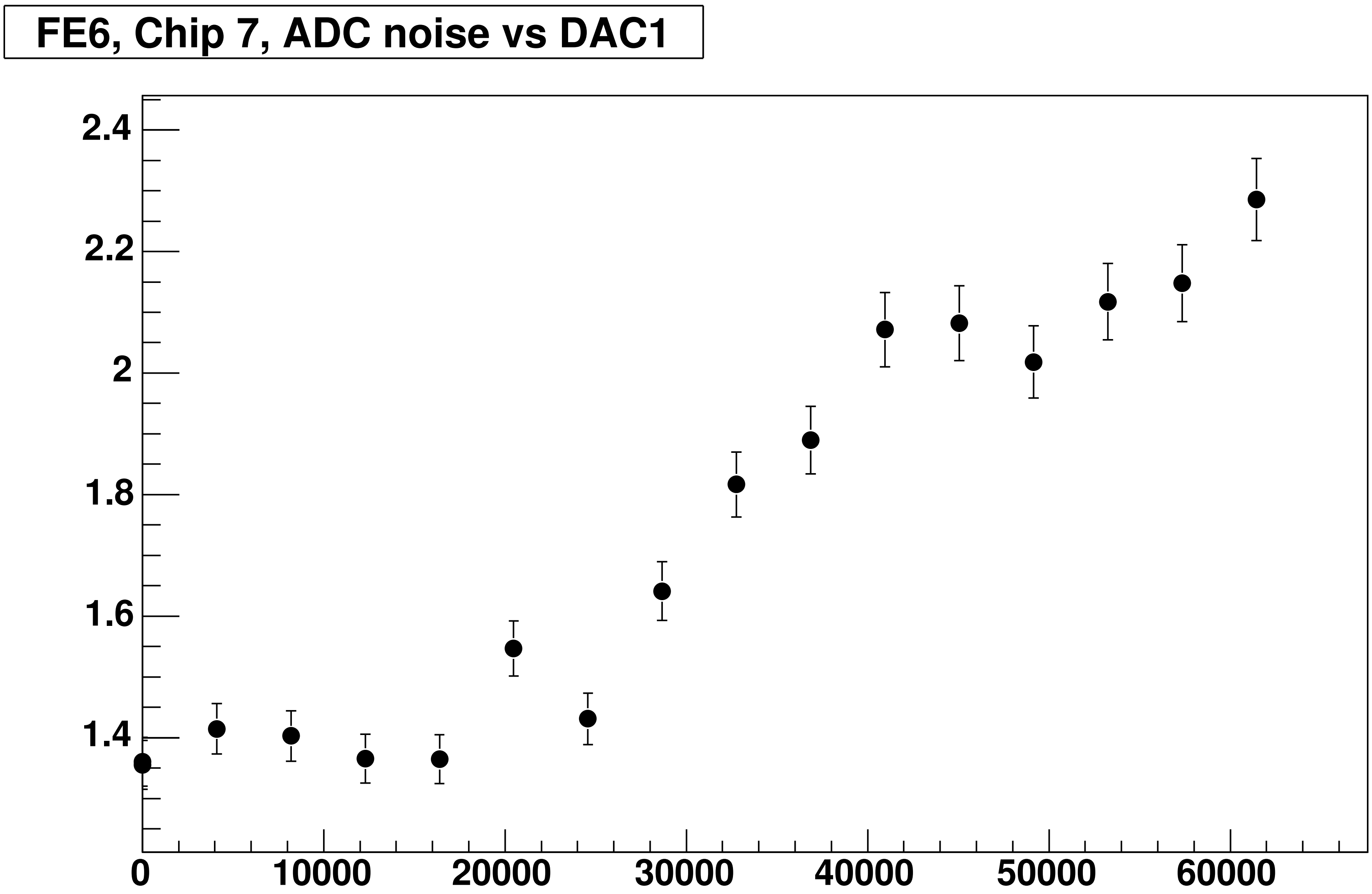


FE6, Chip 7, ADC noise vs DAC0
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

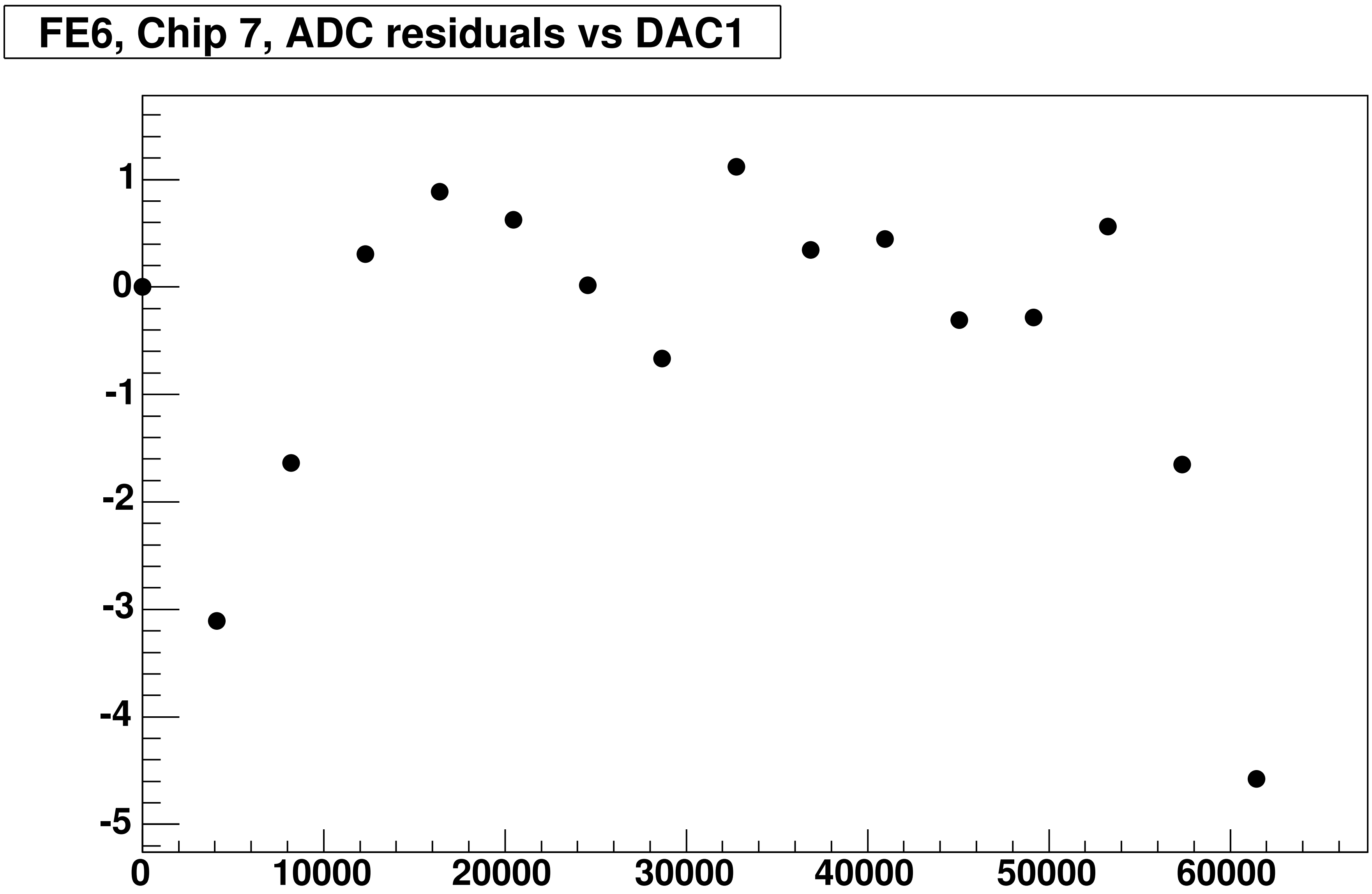

FE6, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

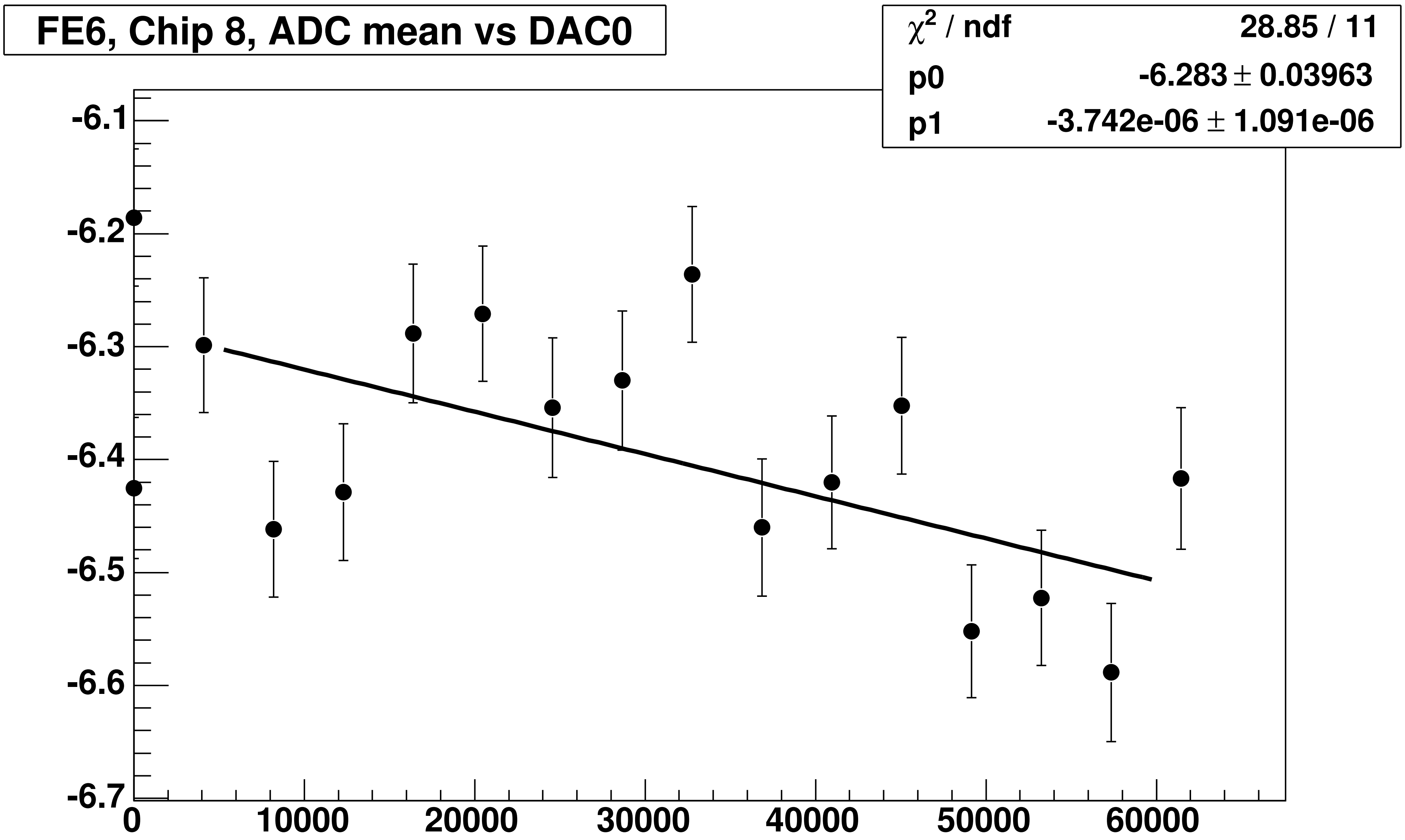


FE6, Chip 7, ADC mean vs DAC1
χ2 / ndf 1914 / 11
p0 3.911 ± 0.04128
p1 0.4503 ± 1.313e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

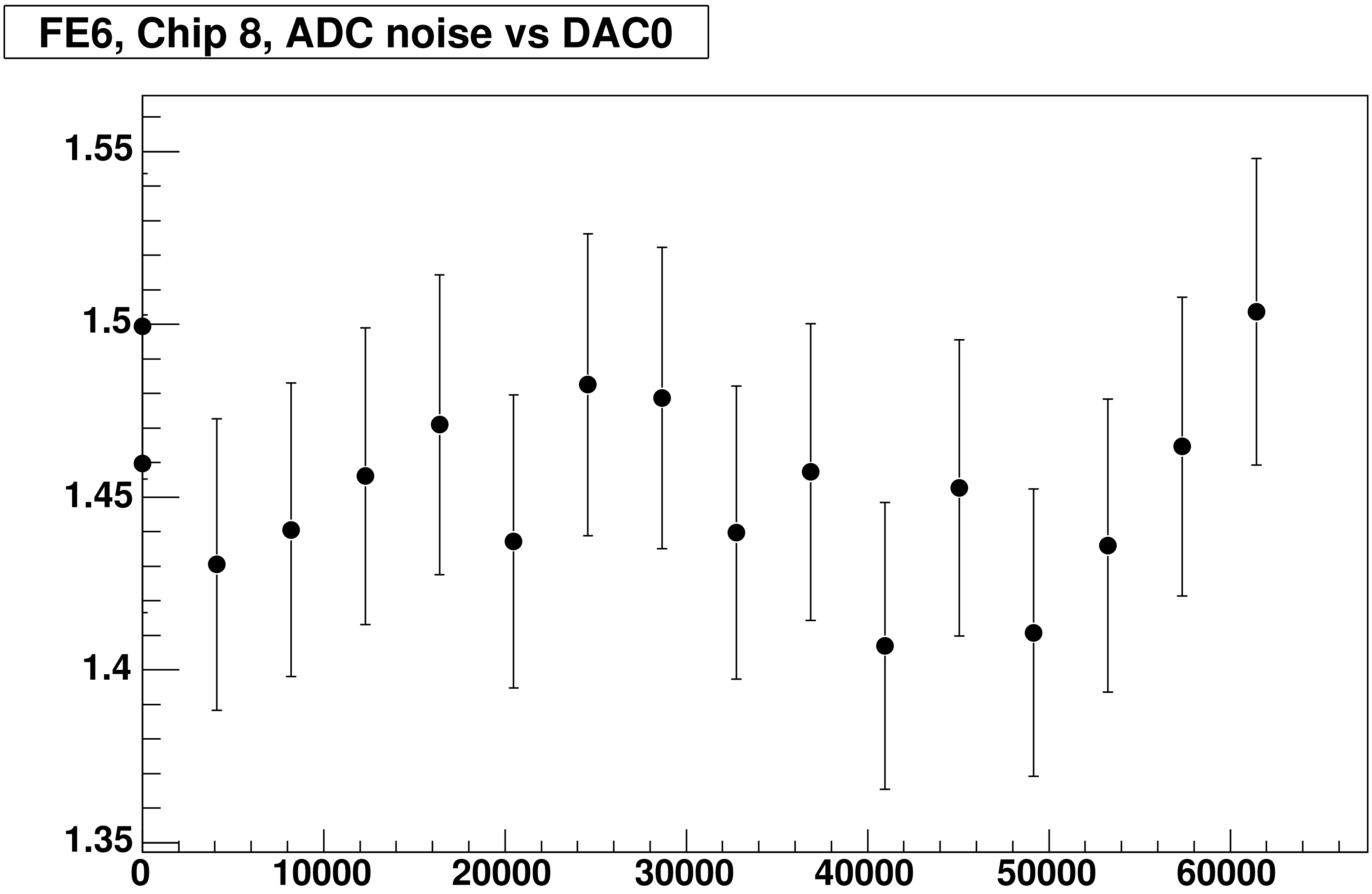


FE6, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

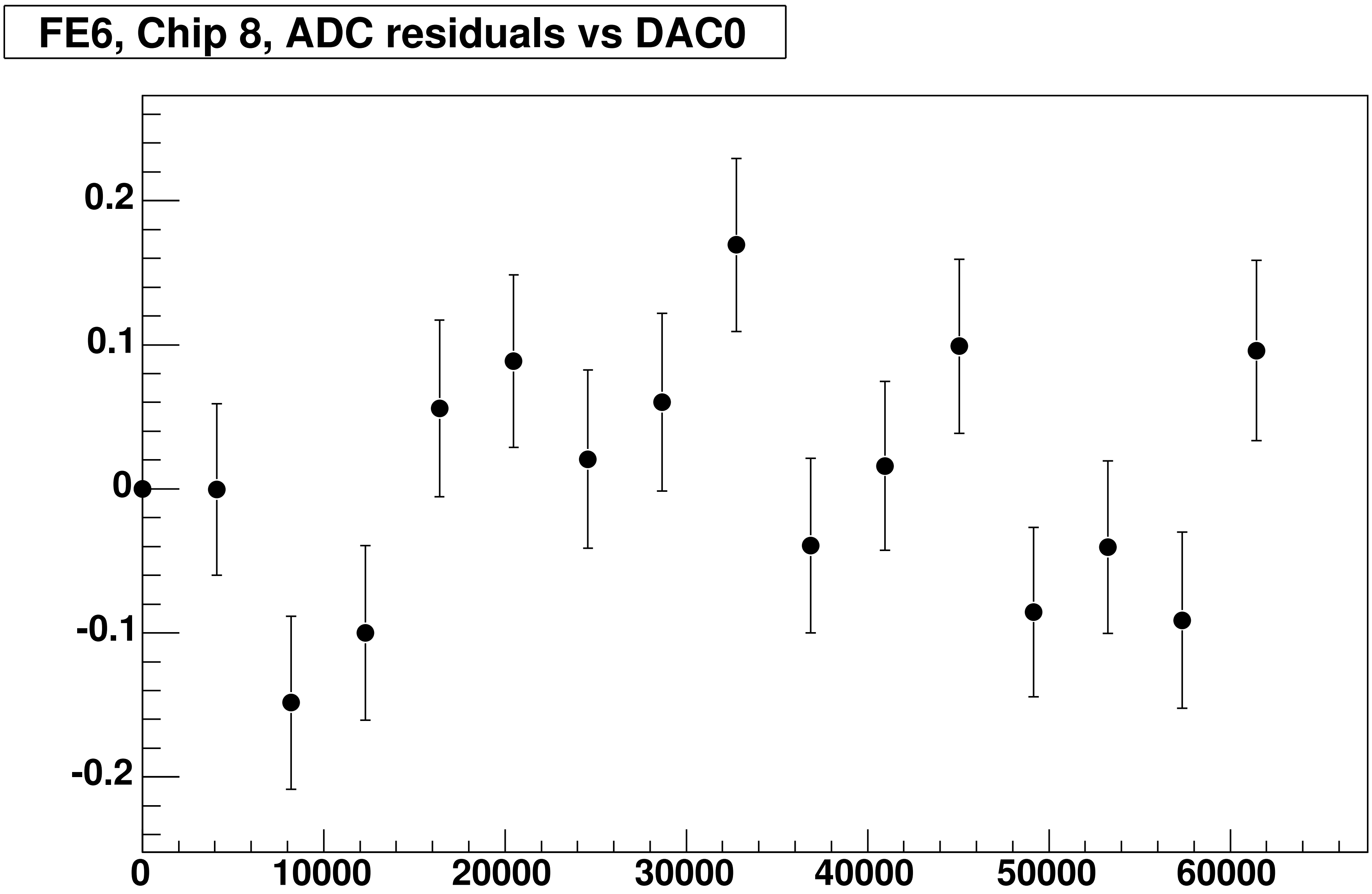

FE6, Chip 7, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

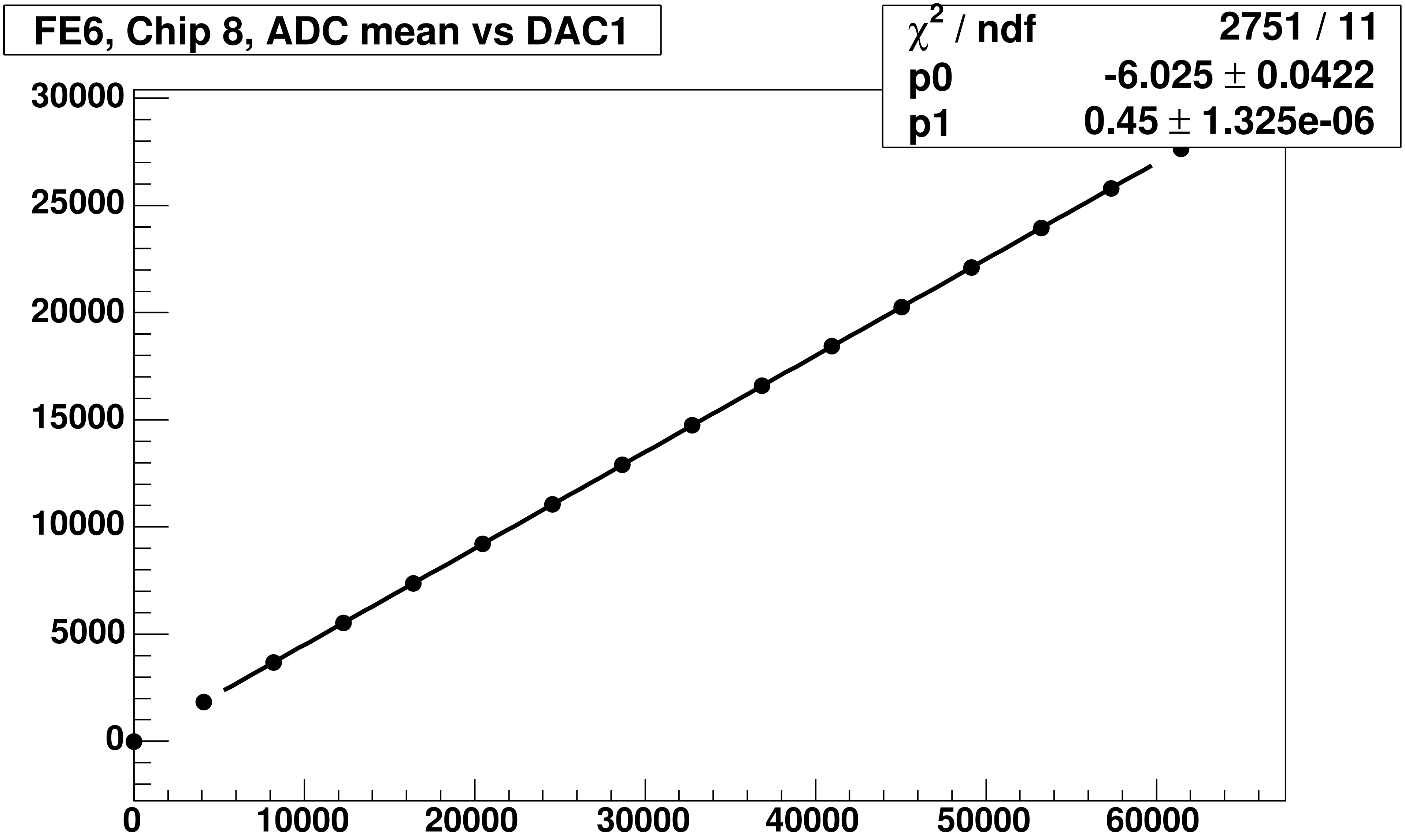


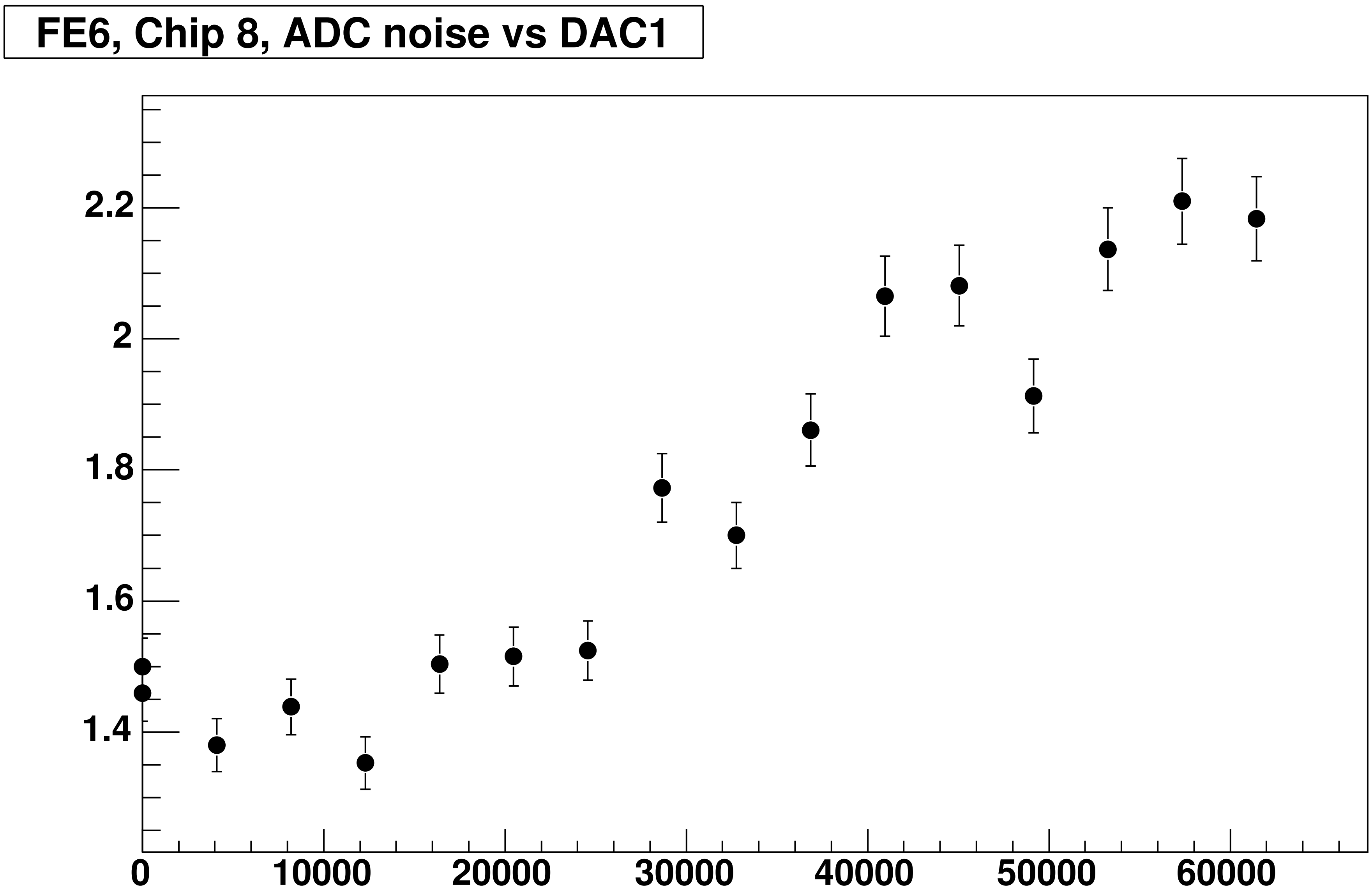
FE6, Chip 8, ADC mean vs DAC0
χ^2 / ndf 28.85 / 11
p0 -6.283 ± 0.03963
p1 -3.742e-06 ± 1.091e-06
-6.1
-6.2
-6.3
-6.4
-6.5
-6.6
-6.7
0
10000
20000
30000
40000
50000
60000

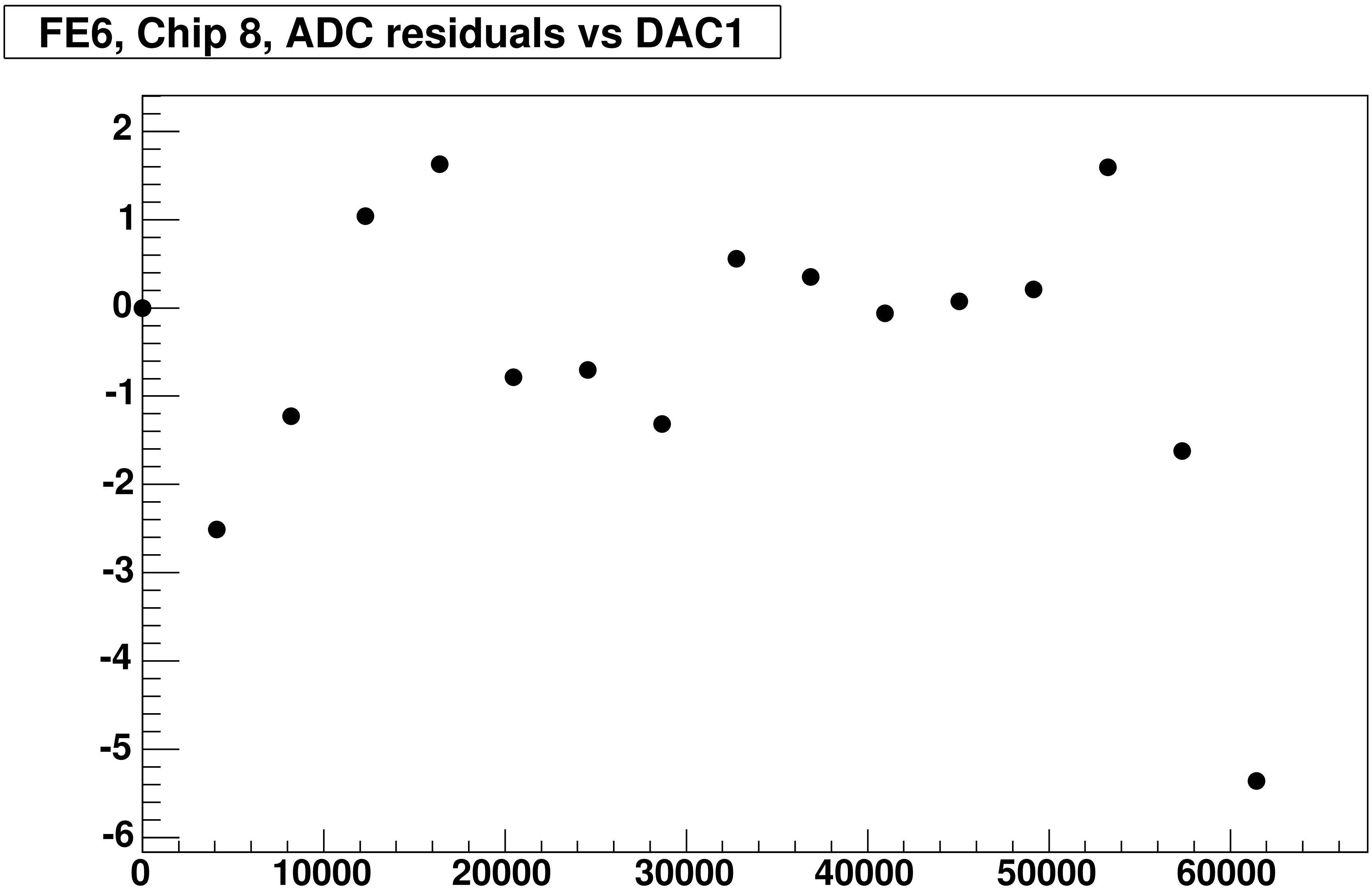


FE6, Chip 8, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

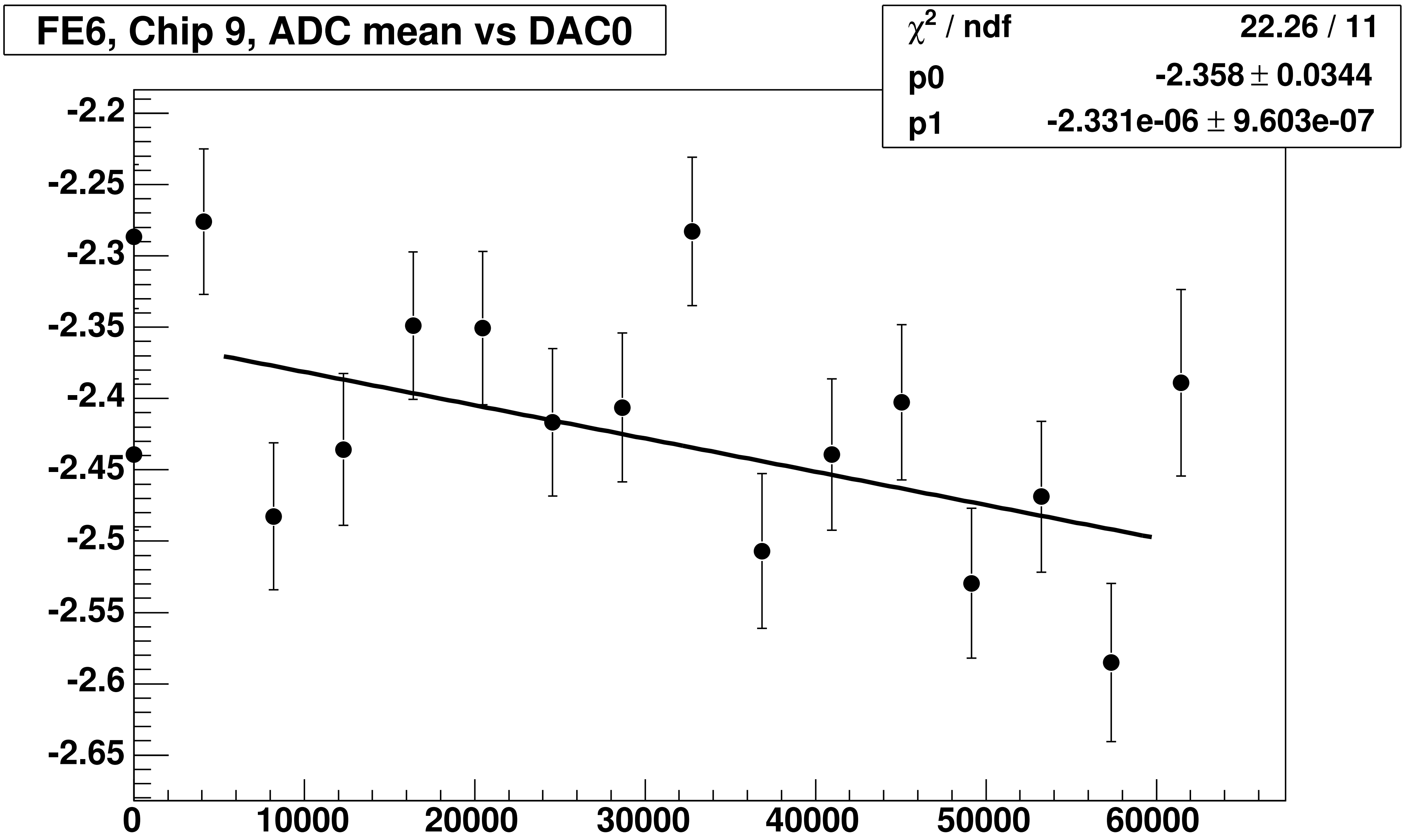

FE6, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

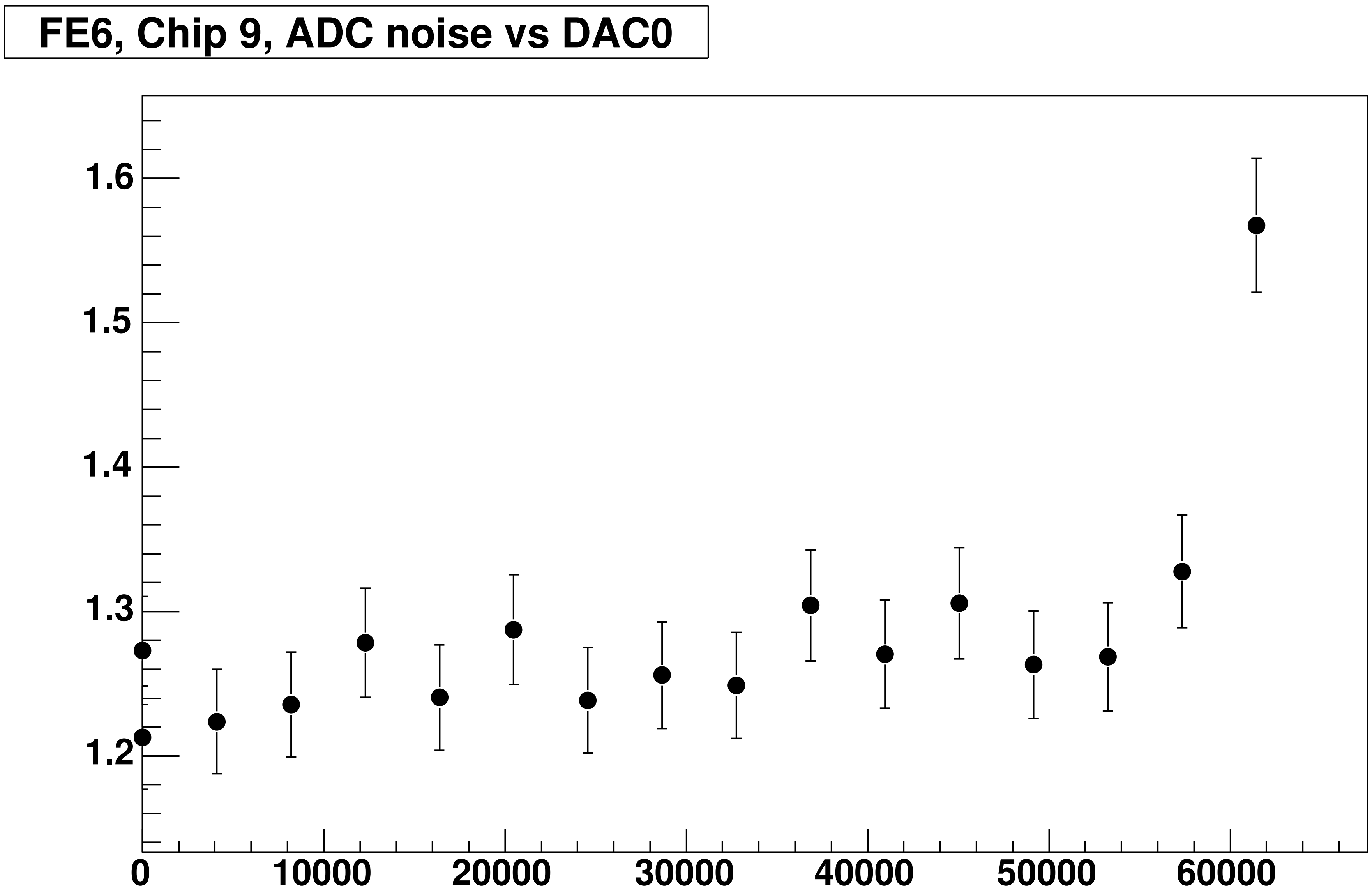

FE6, Chip 8, ADC mean vs DAC1
χ^2 / ndf 2751 / 11
p0 -6.025 ± 0.0422
p1 0.45 ± 1.325e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

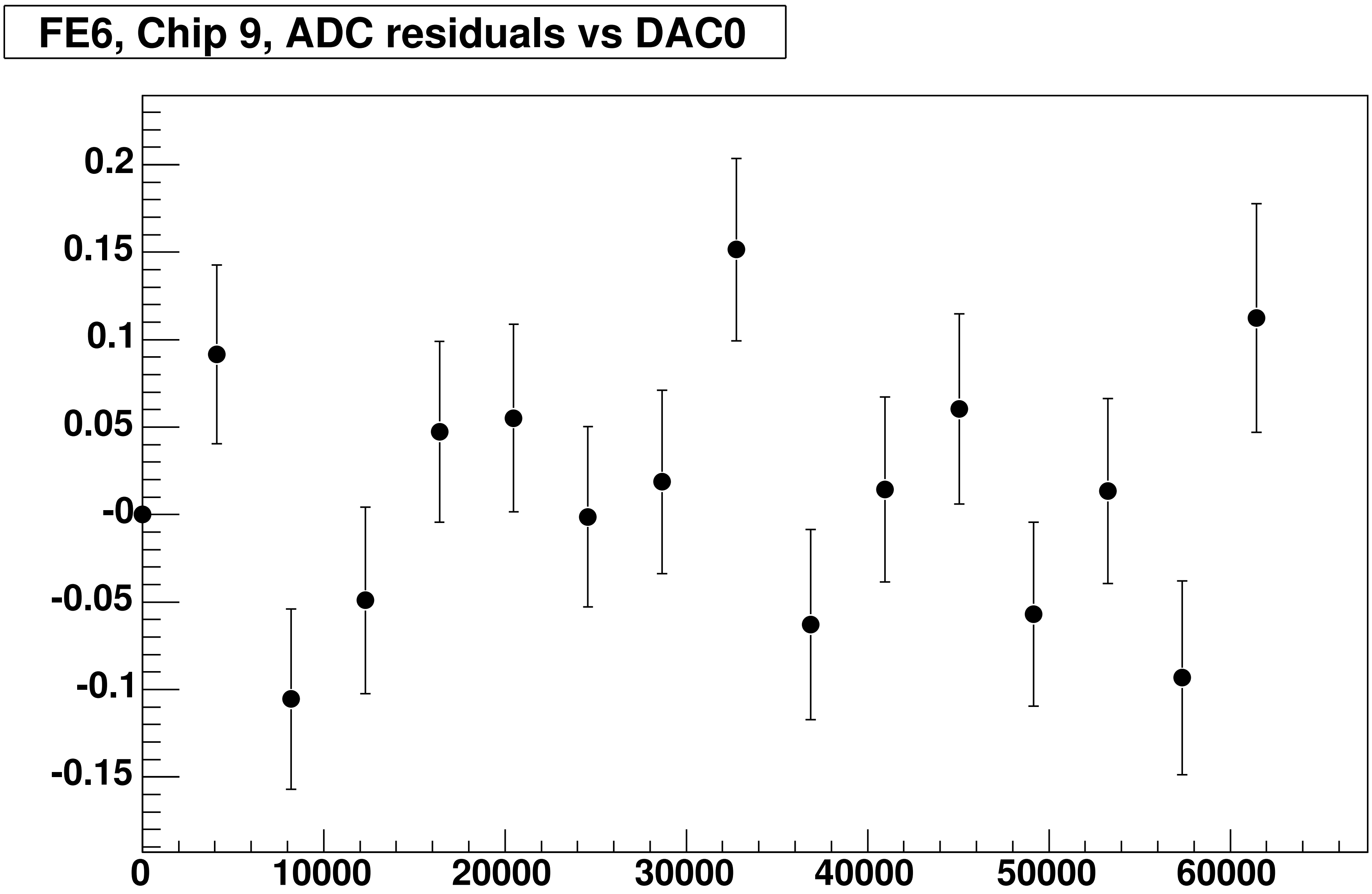

FE6, Chip 8, ADC noise vs DAC1
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

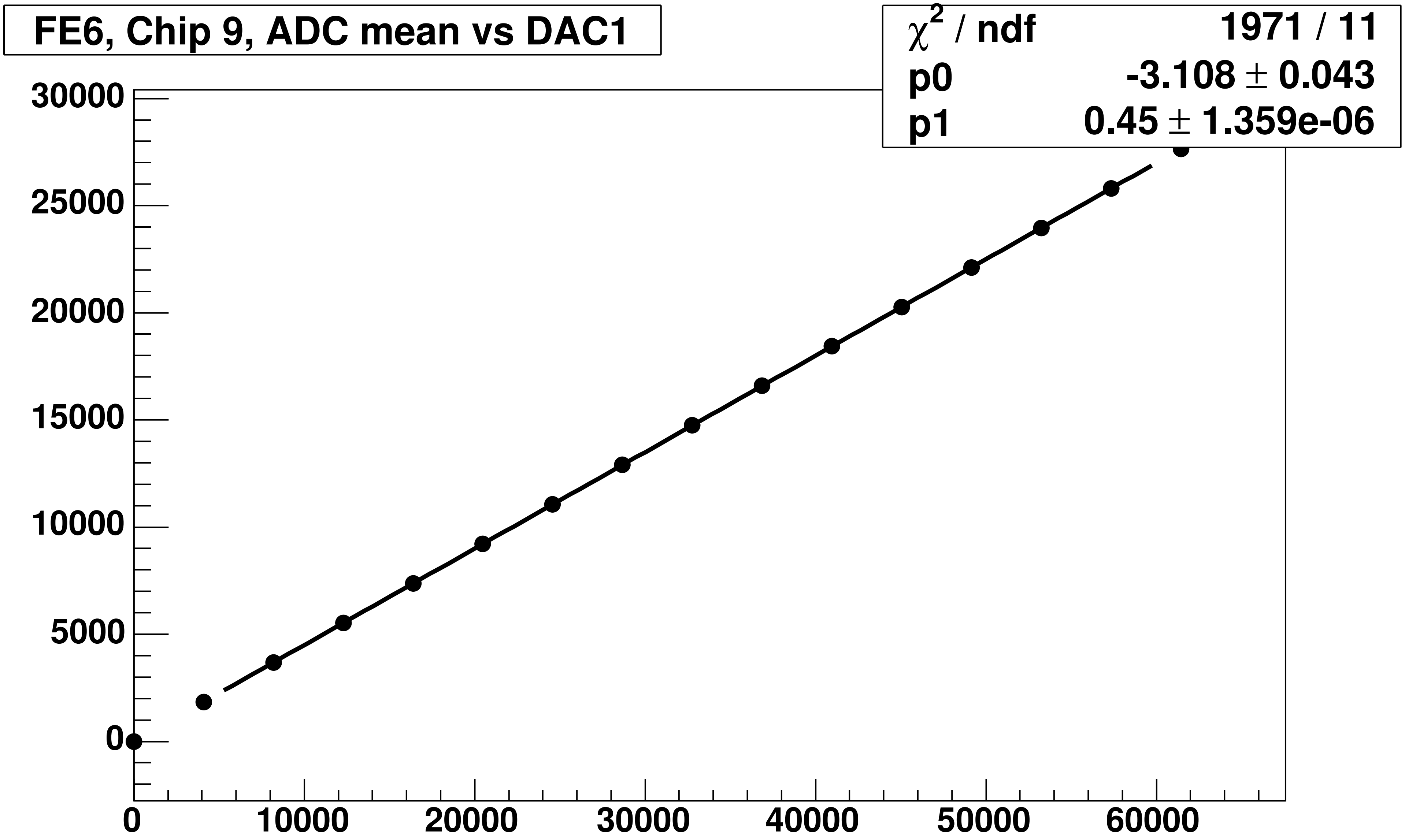


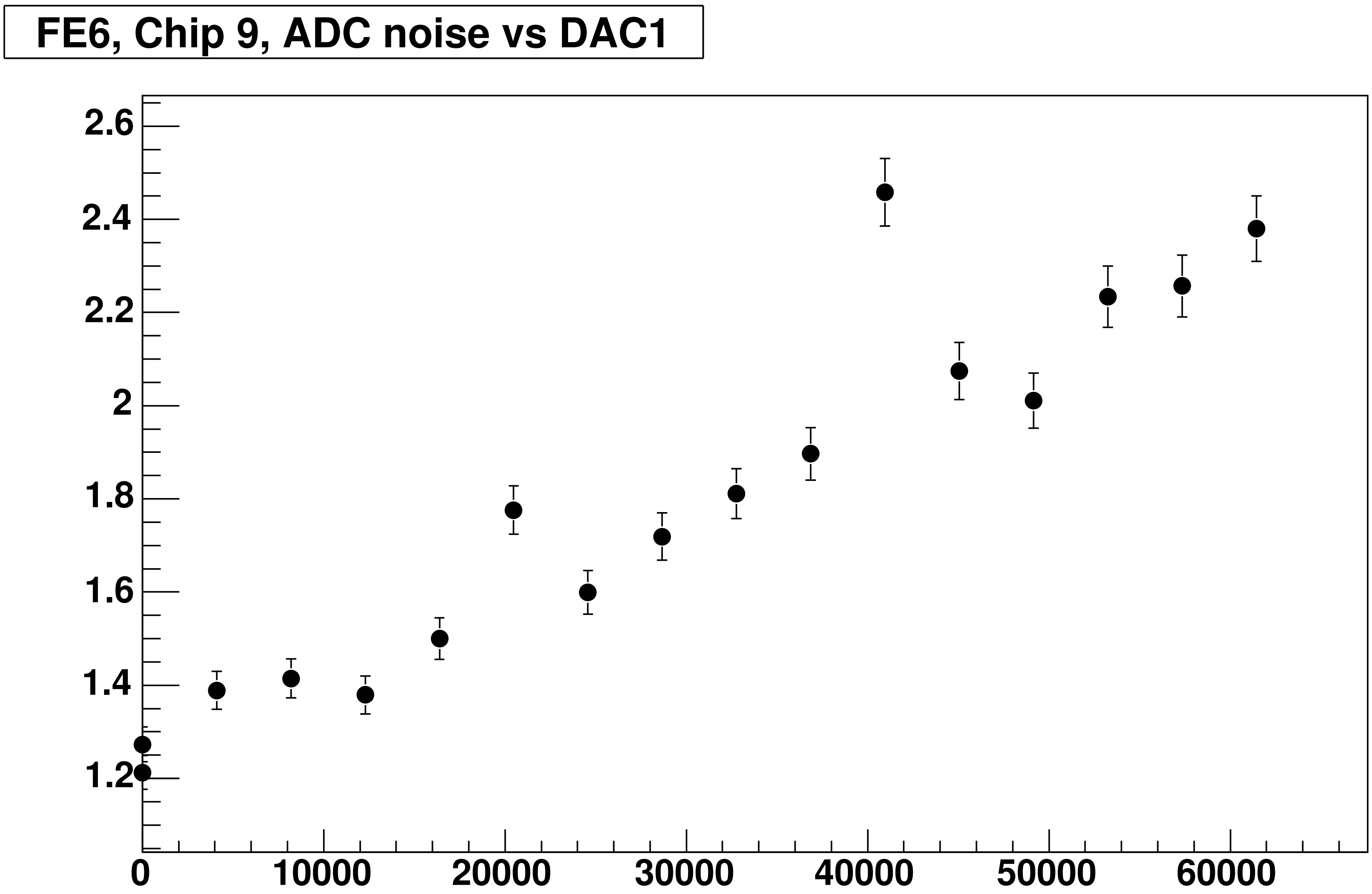
FE6, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE6, Chip 9, ADC mean vs DAC0
χ² / ndf 22.26 / 11
p0 -2.358 ± 0.0344
p1 -2.331e-06 ± 9.603e-07
-2.2
-2.25
-2.3
-2.35
-2.4
-2.45
-2.5
-2.55
-2.6
-2.65
0
10000
20000
30000
40000
50000
60000

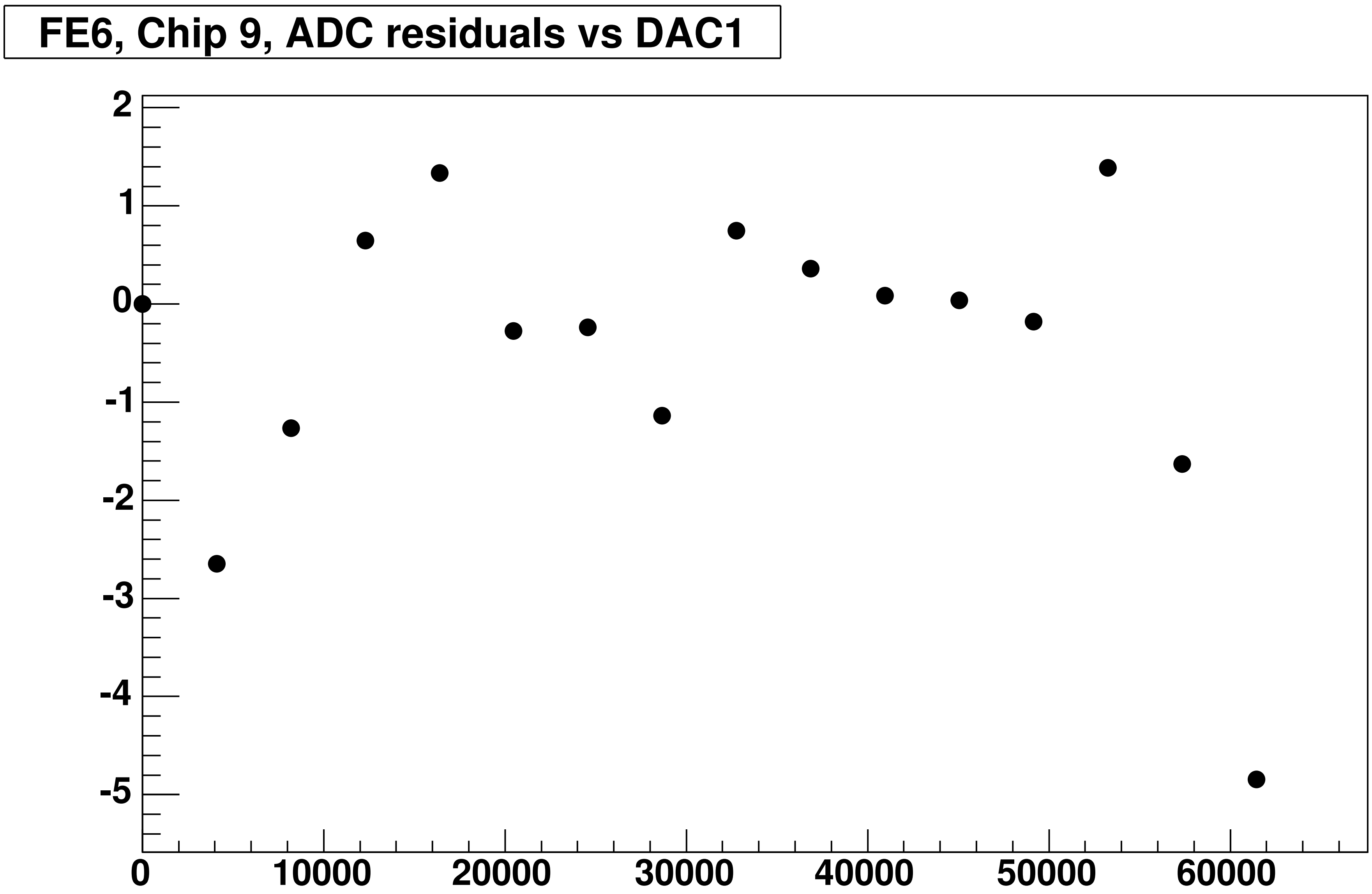

FE6, Chip 9, ADC noise vs DAC0
1.2
1.3
1.4
1.5
1.6
0
10000
20000
30000
40000
50000
60000

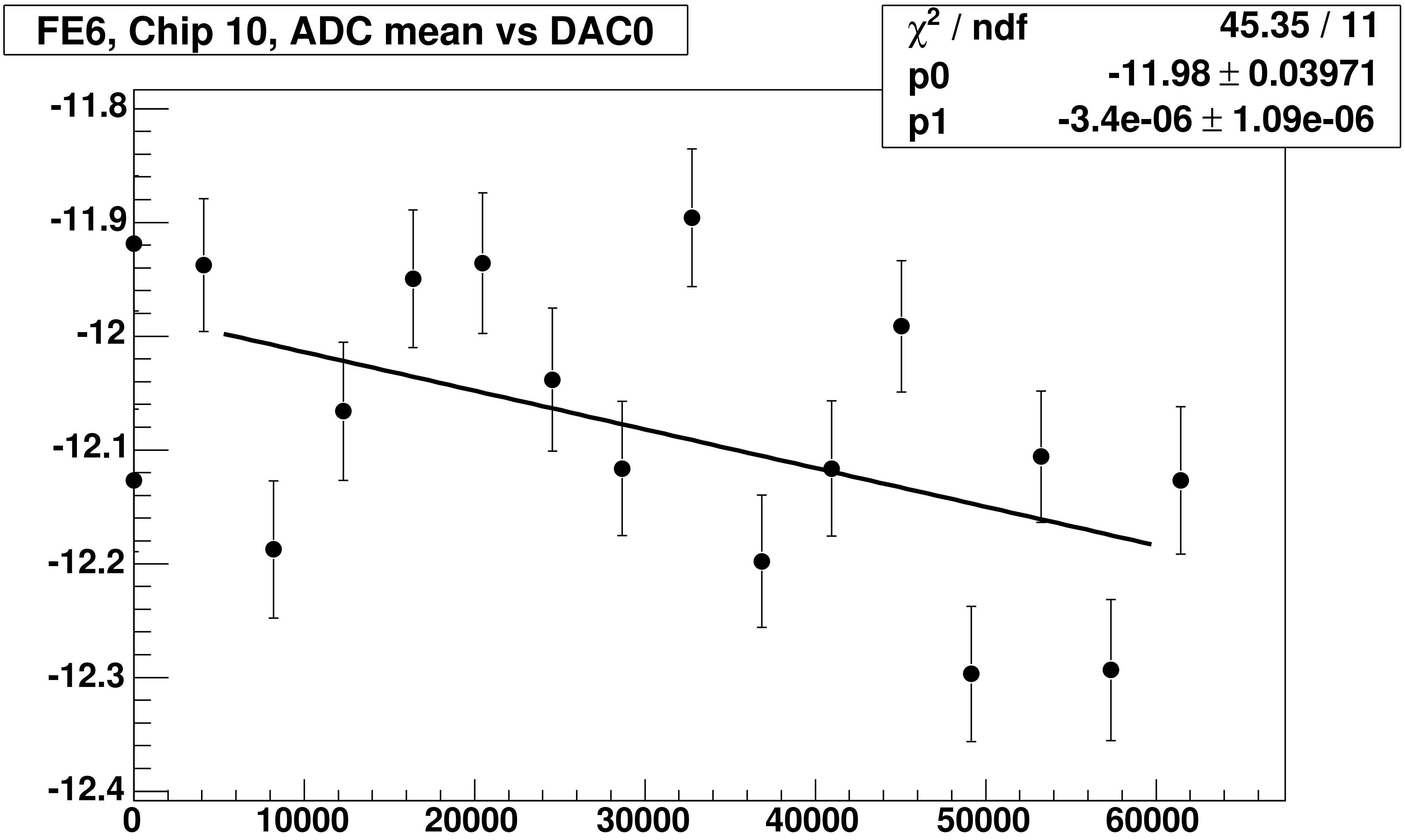

FE6, Chip 9, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000


FE6, Chip 9, ADC mean vs DAC1
χ² / ndf 1971 / 11
p0 -3.108 ± 0.043
p1 0.45 ± 1.359e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

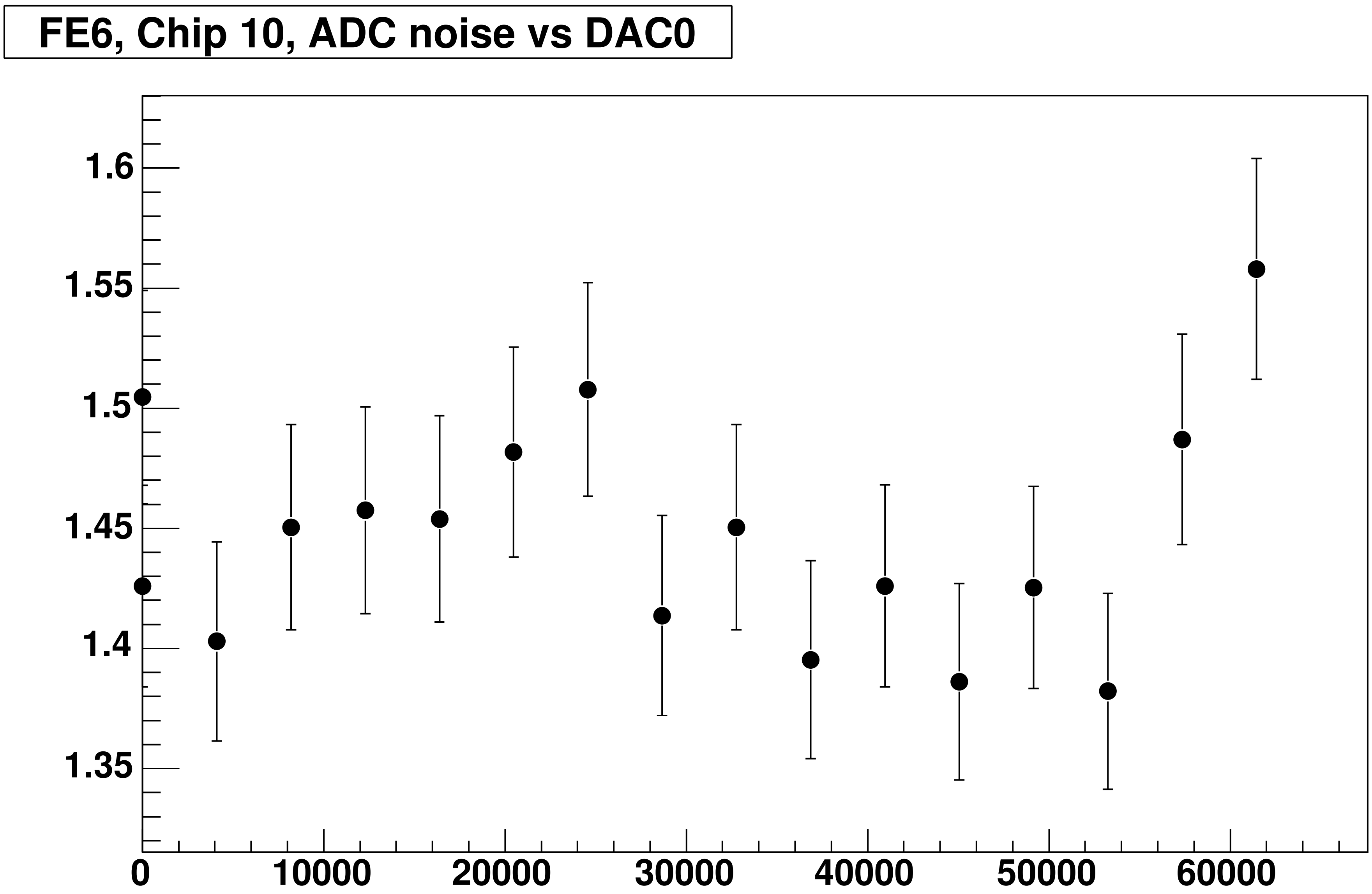


FE6, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

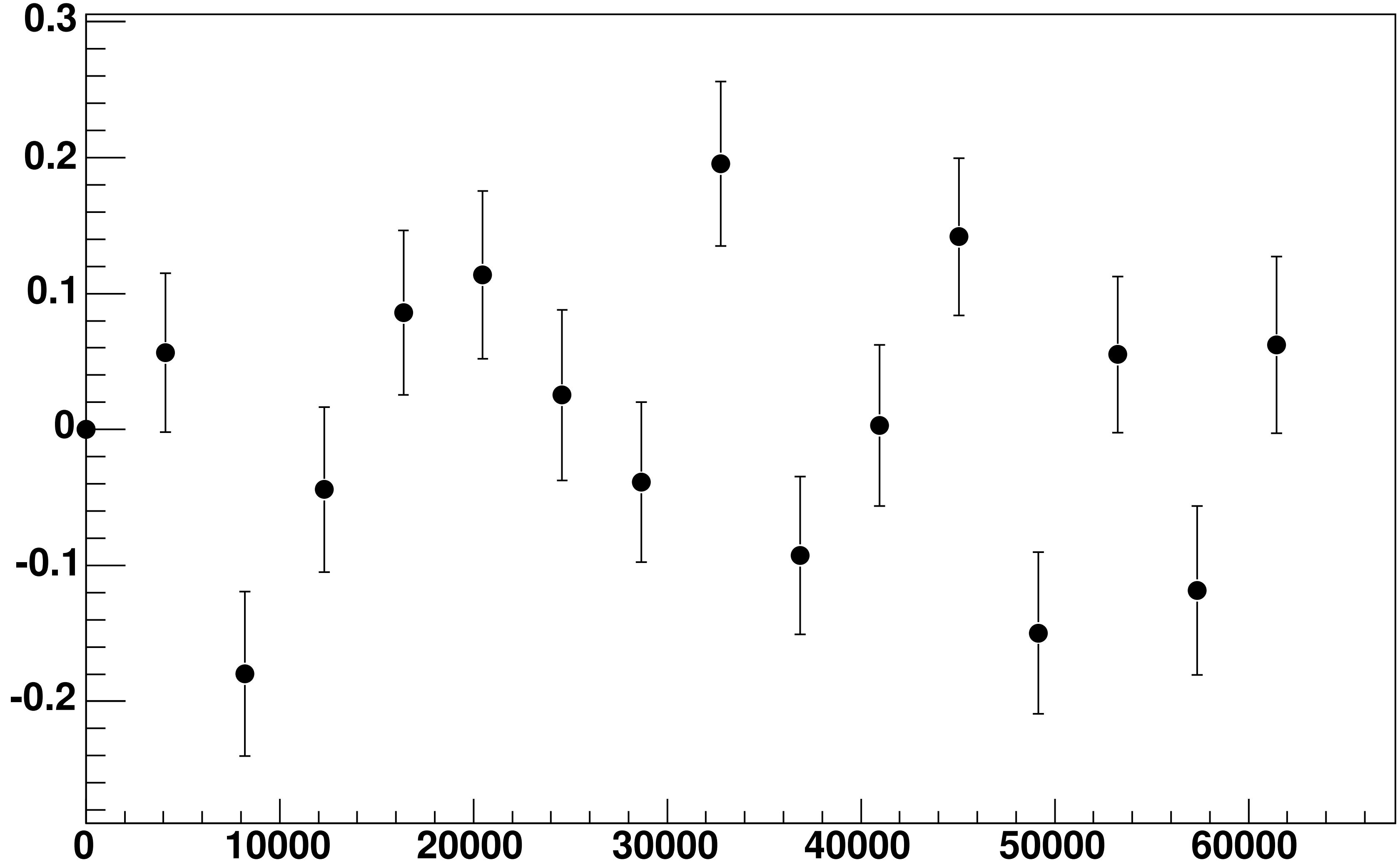


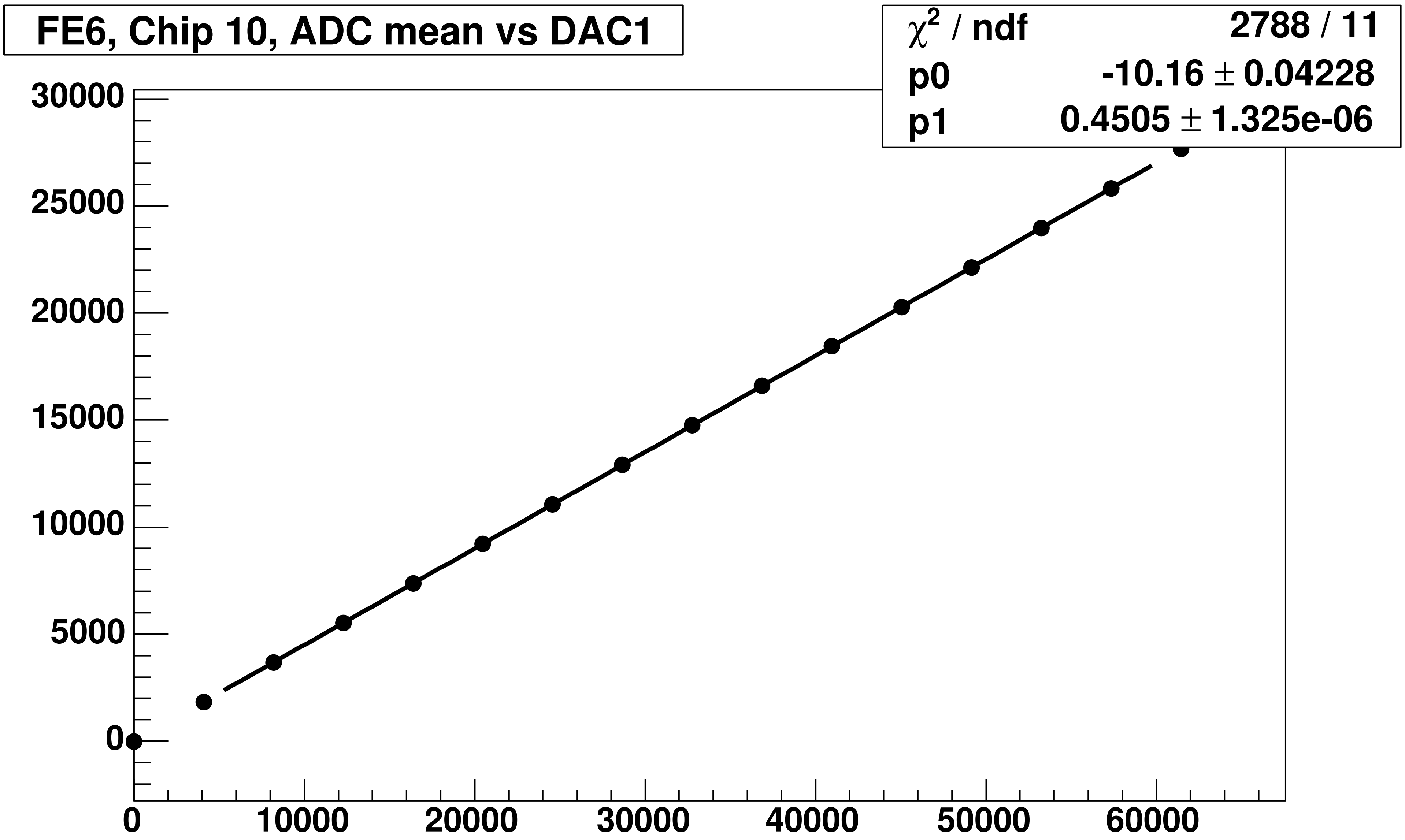
FE6, Chip 10, ADC mean vs DAC0
χ^2 / ndf 45.35 / 11
p0 -11.98 ± 0.03971
p1 -3.4e-06 ± 1.09e-06
-11.8
-11.9
-12
-12.1
-12.2
-12.3
-12.4
0
10000
20000
30000
40000
50000
60000



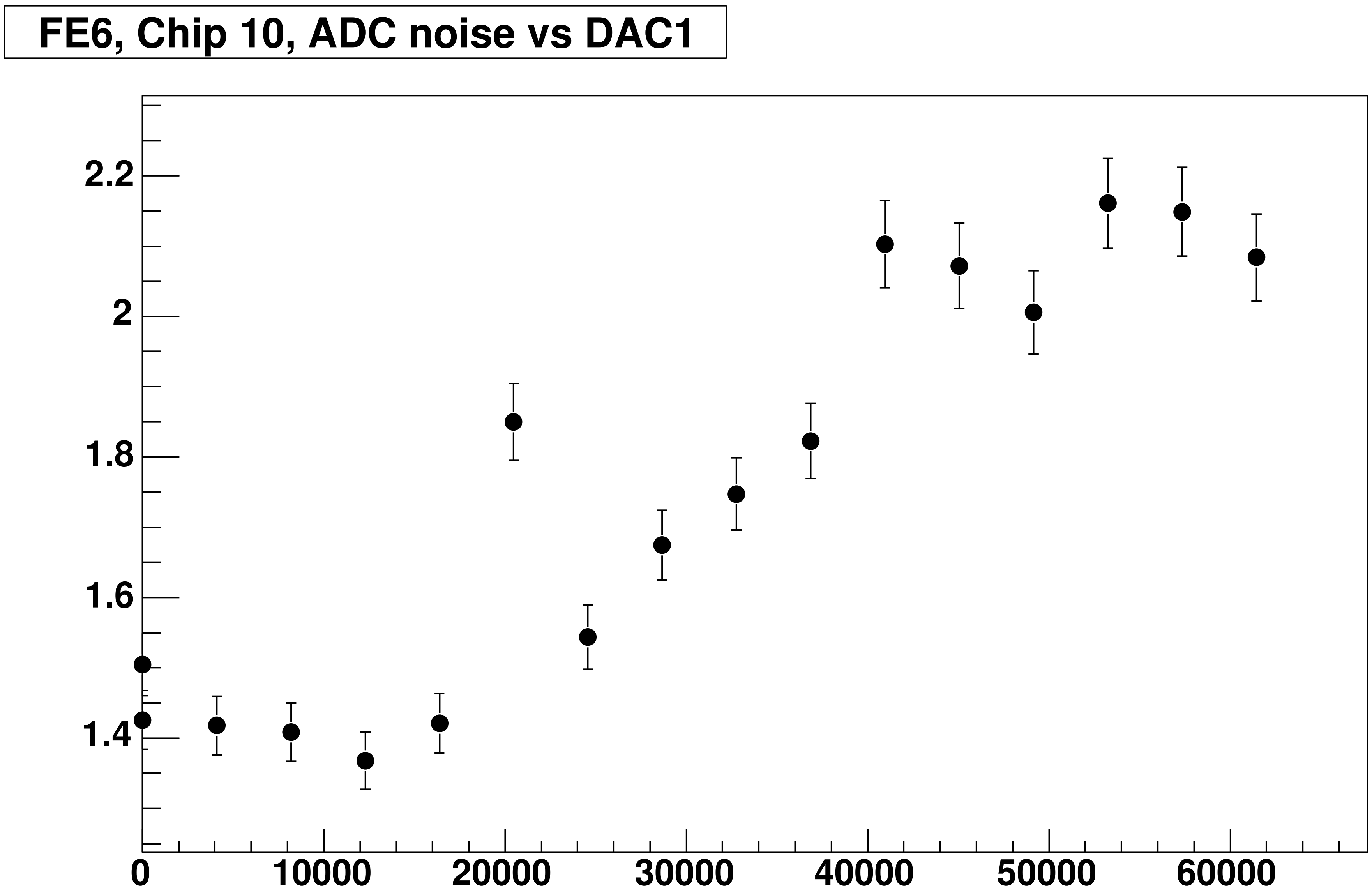
FE6, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

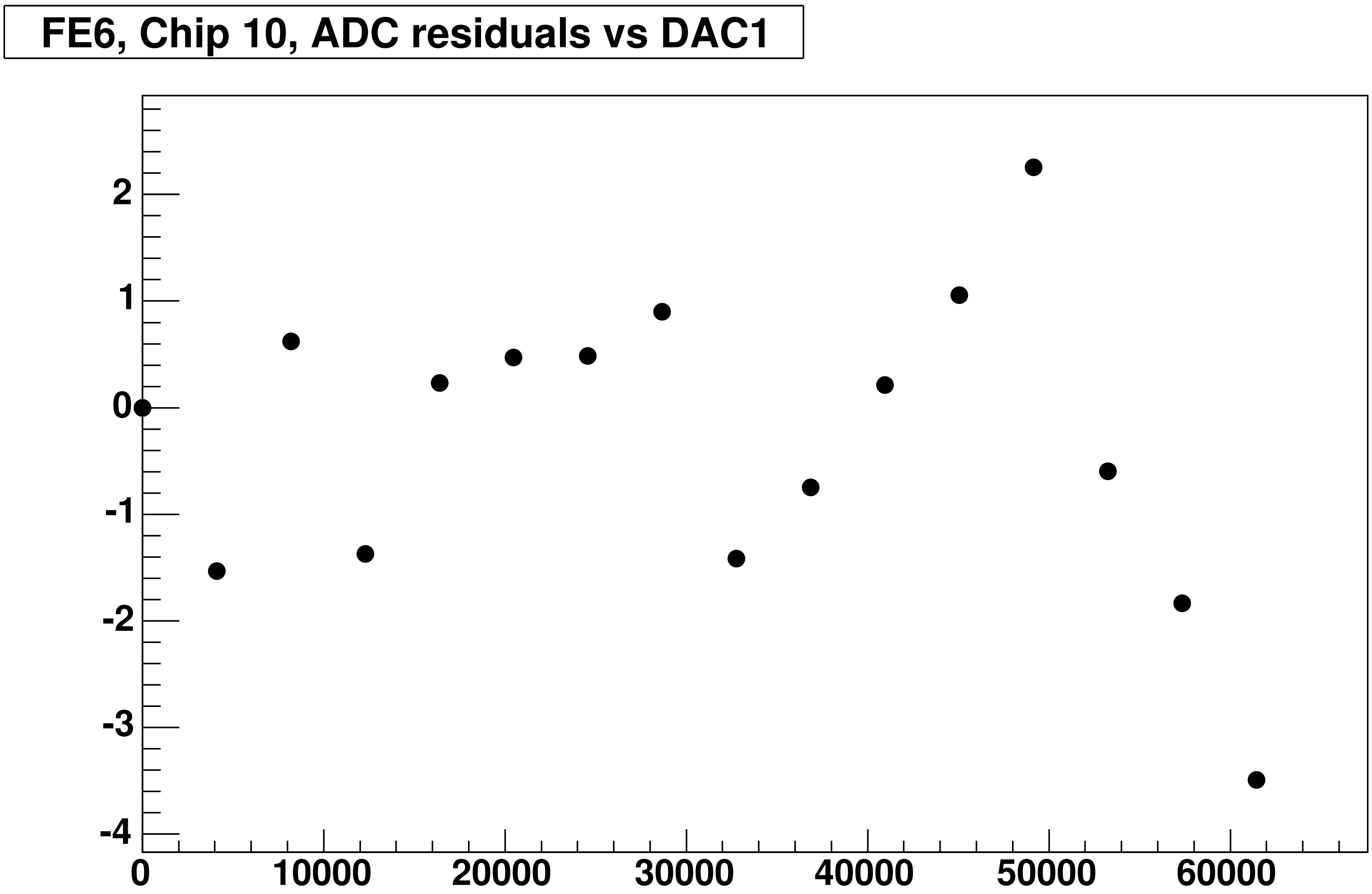
FE6, Chip 10, ADC residuals vs DAC0

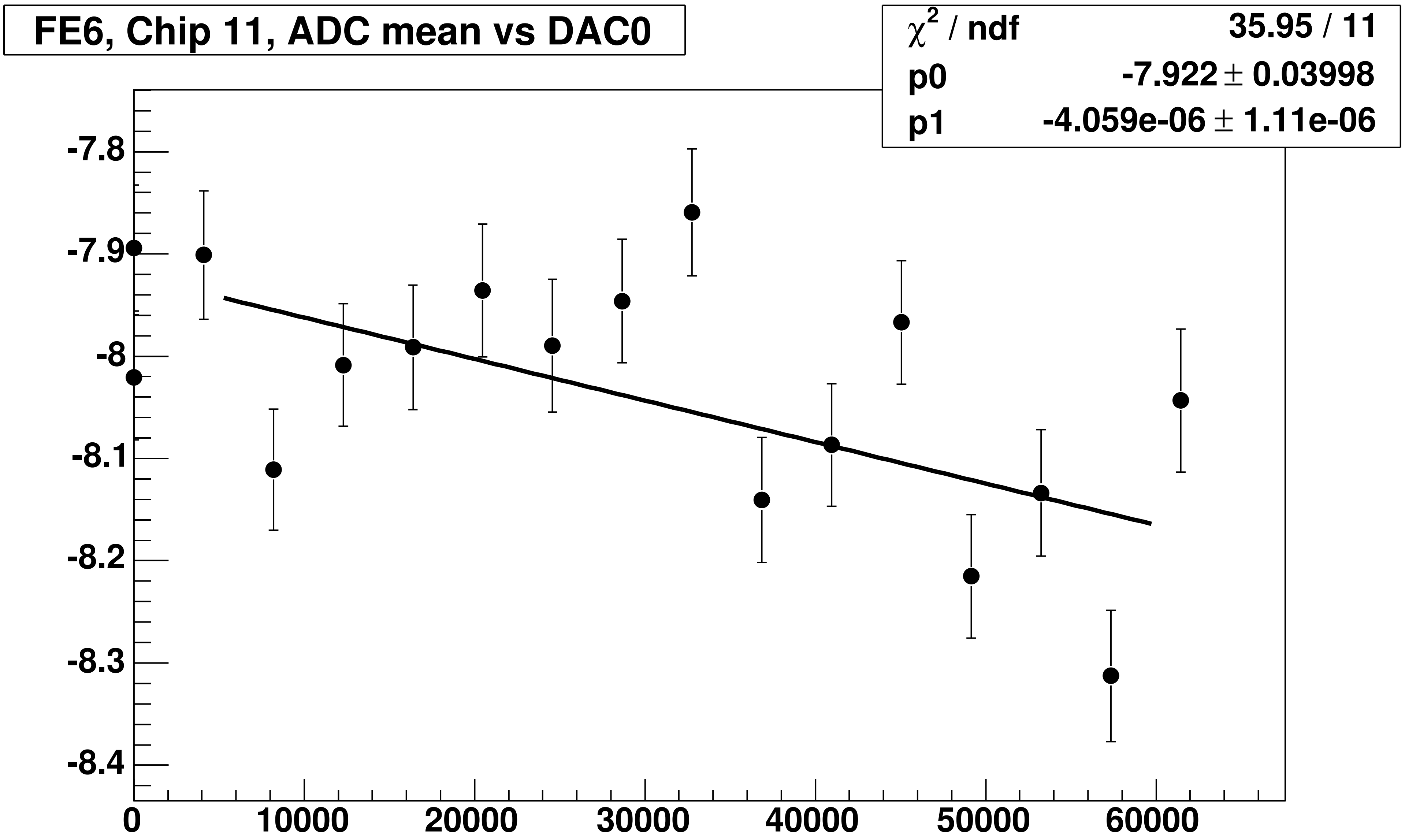




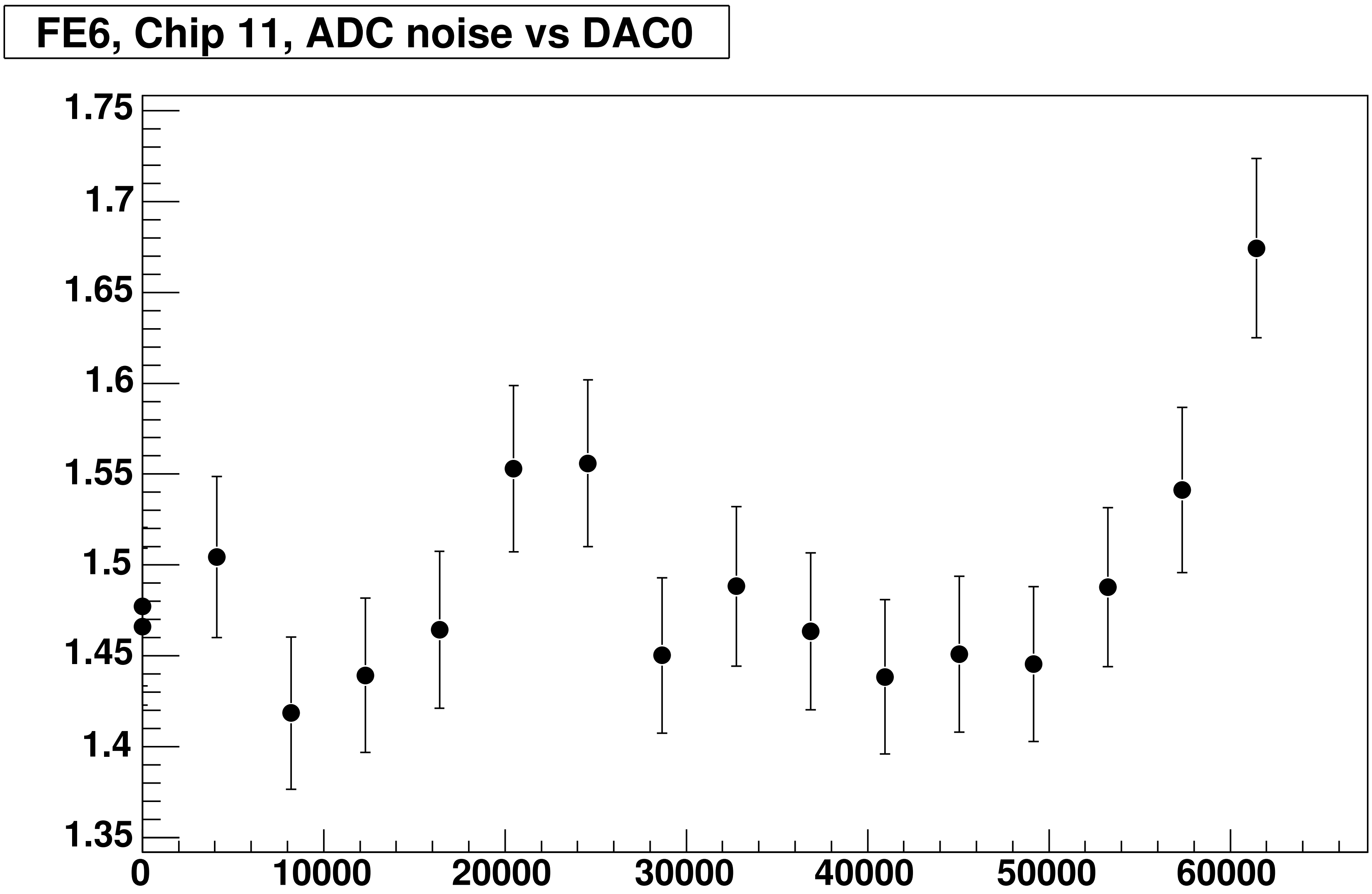
FE6, Chip 10, ADC mean vs DAC1
χ^2 / ndf 2788 / 11
p0 -10.16 ± 0.04228
p1 0.4505 ± 1.325e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

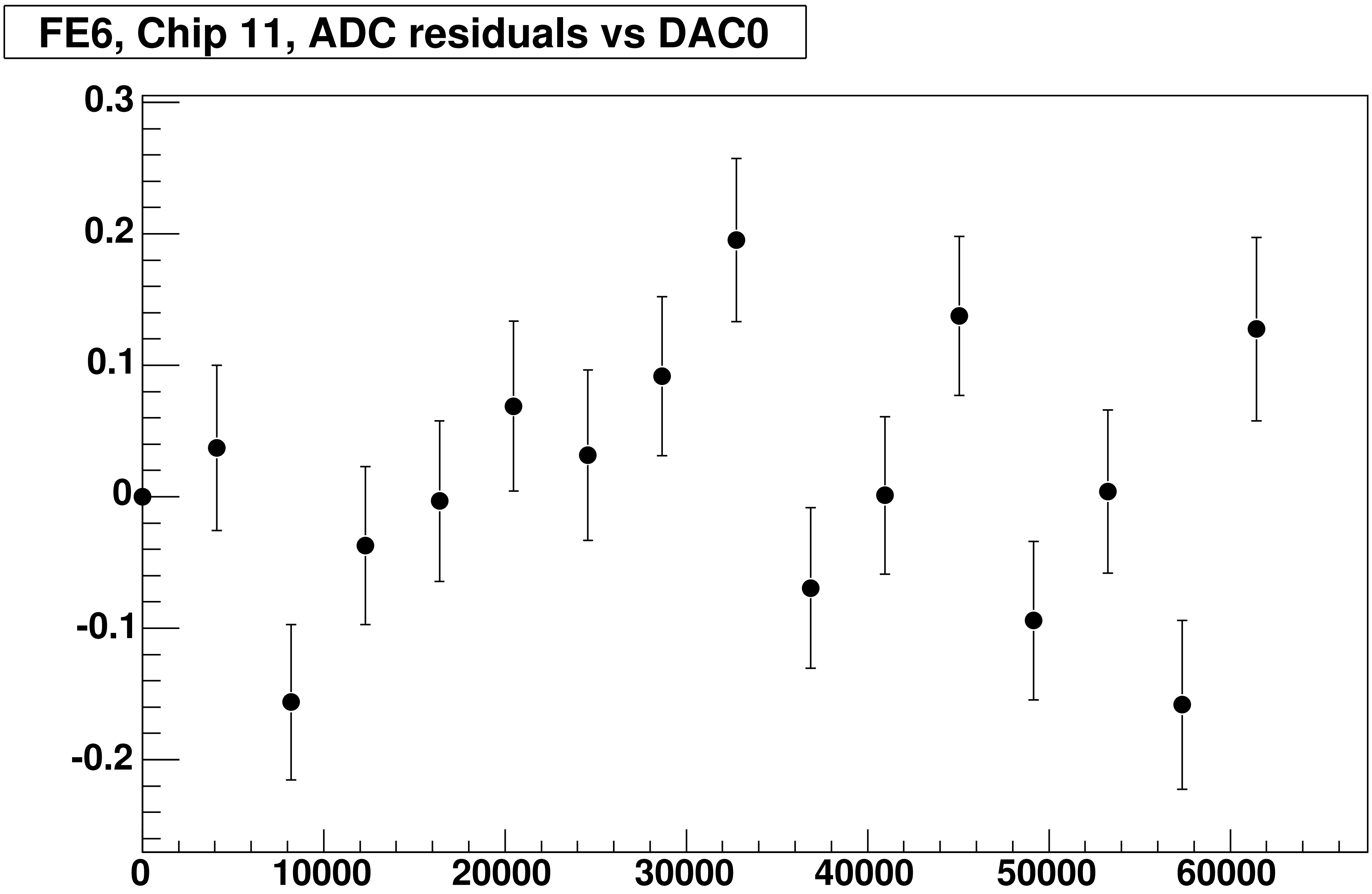

FE6, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



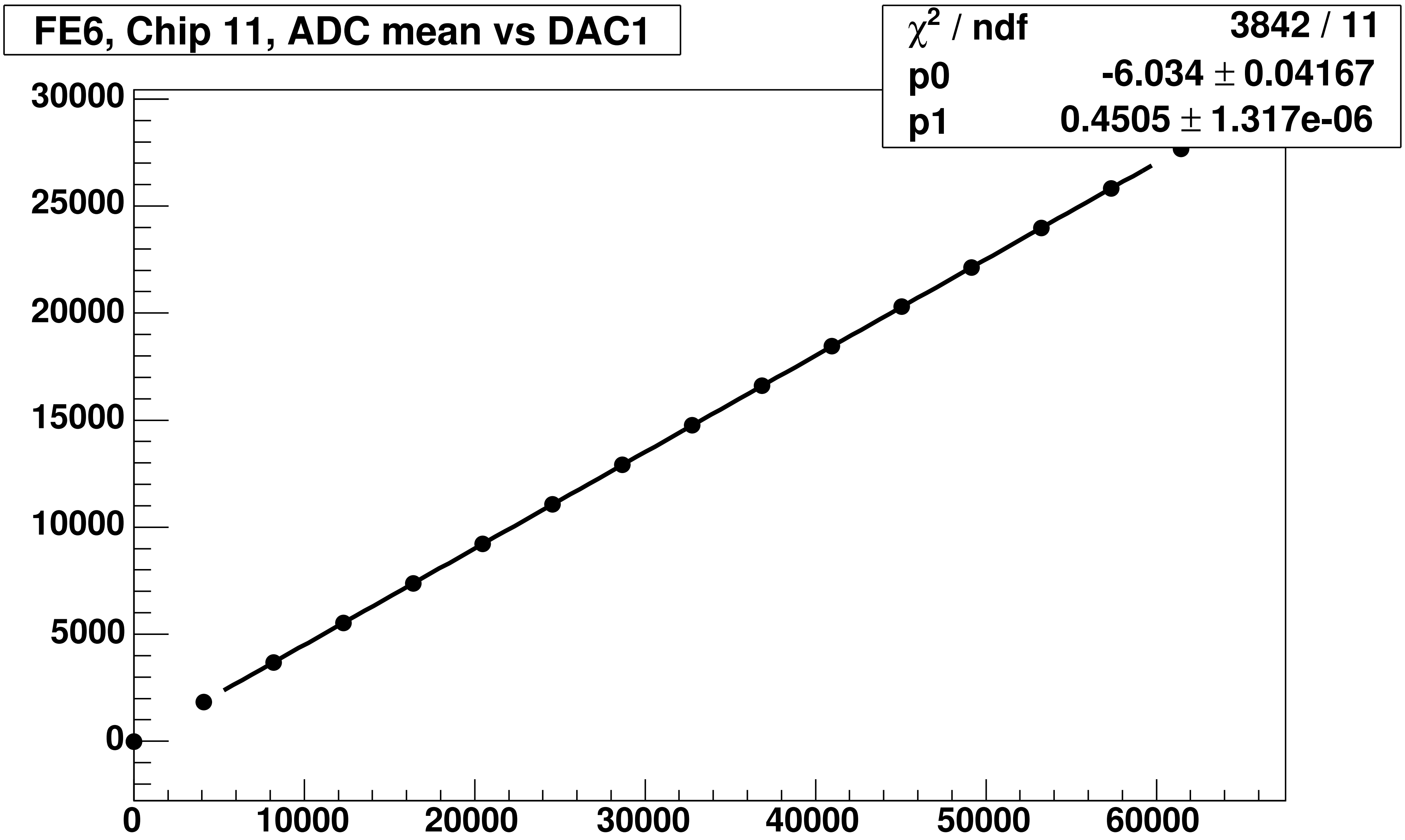
FE6, Chip 11, ADC mean vs DAC0
χ^2 / ndf 35.95 / 11
p0 -7.922 ± 0.03998
p1 -4.059e-06 ± 1.11e-06
-7.8
-7.9
-8
-8.1
-8.2
-8.3
-8.4
0
10000
20000
30000
40000
50000
60000

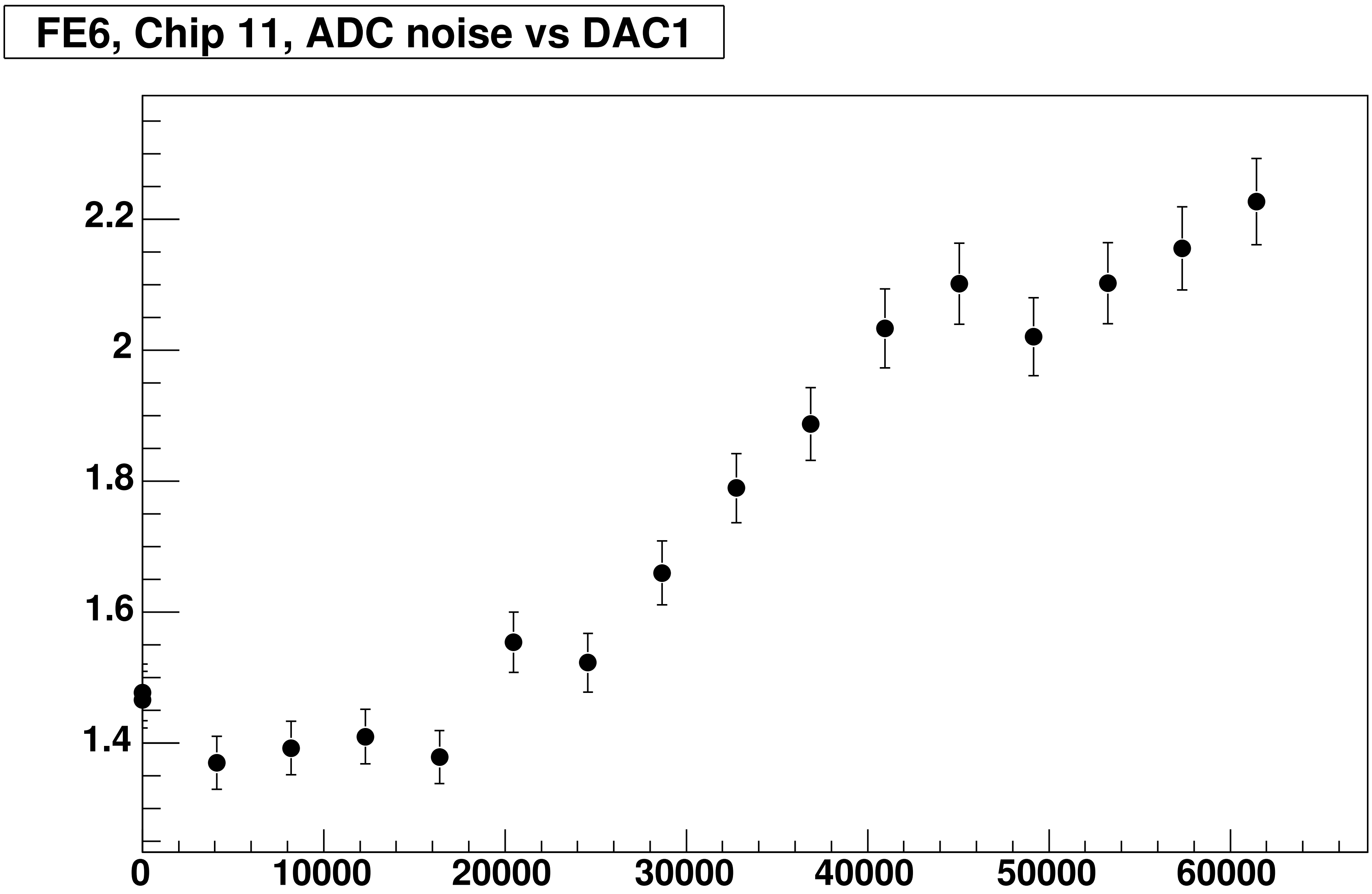


FE6, Chip 11, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

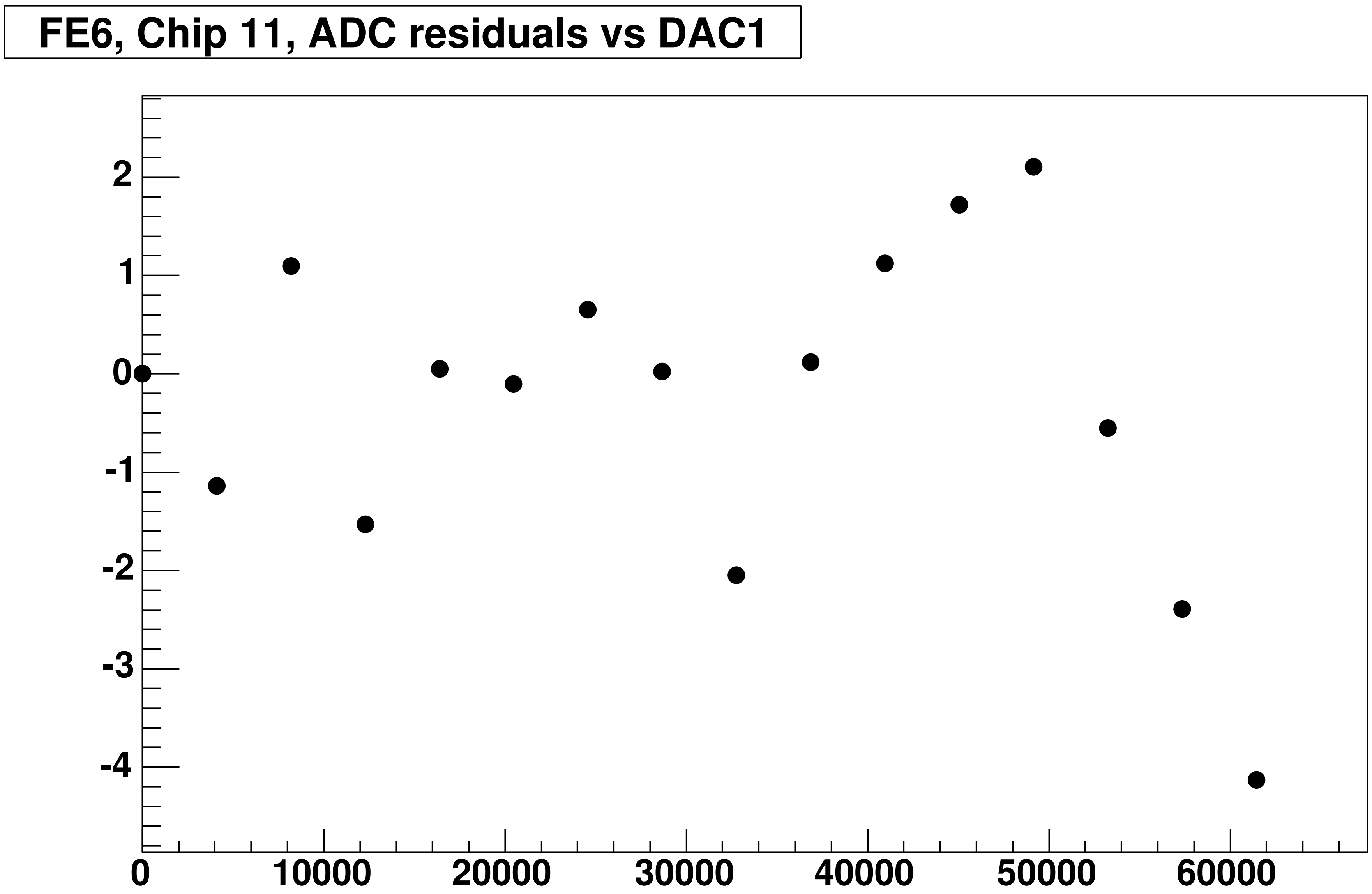


FE6, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

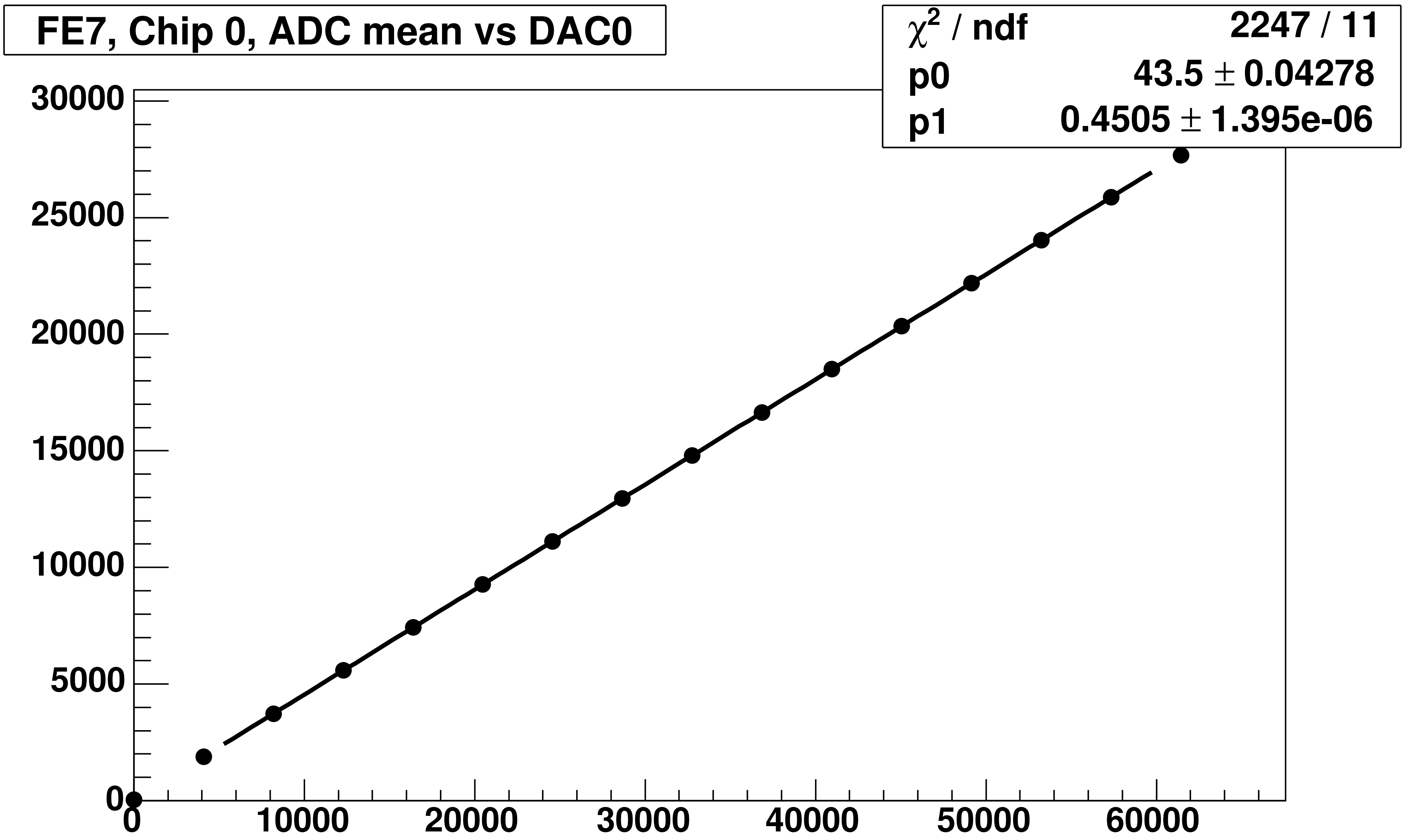

FE6, Chip 11, ADC mean vs DAC1
χ^2 / ndf 3842 / 11
p0 -6.034 ± 0.04167
p1 0.4505 ± 1.317e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



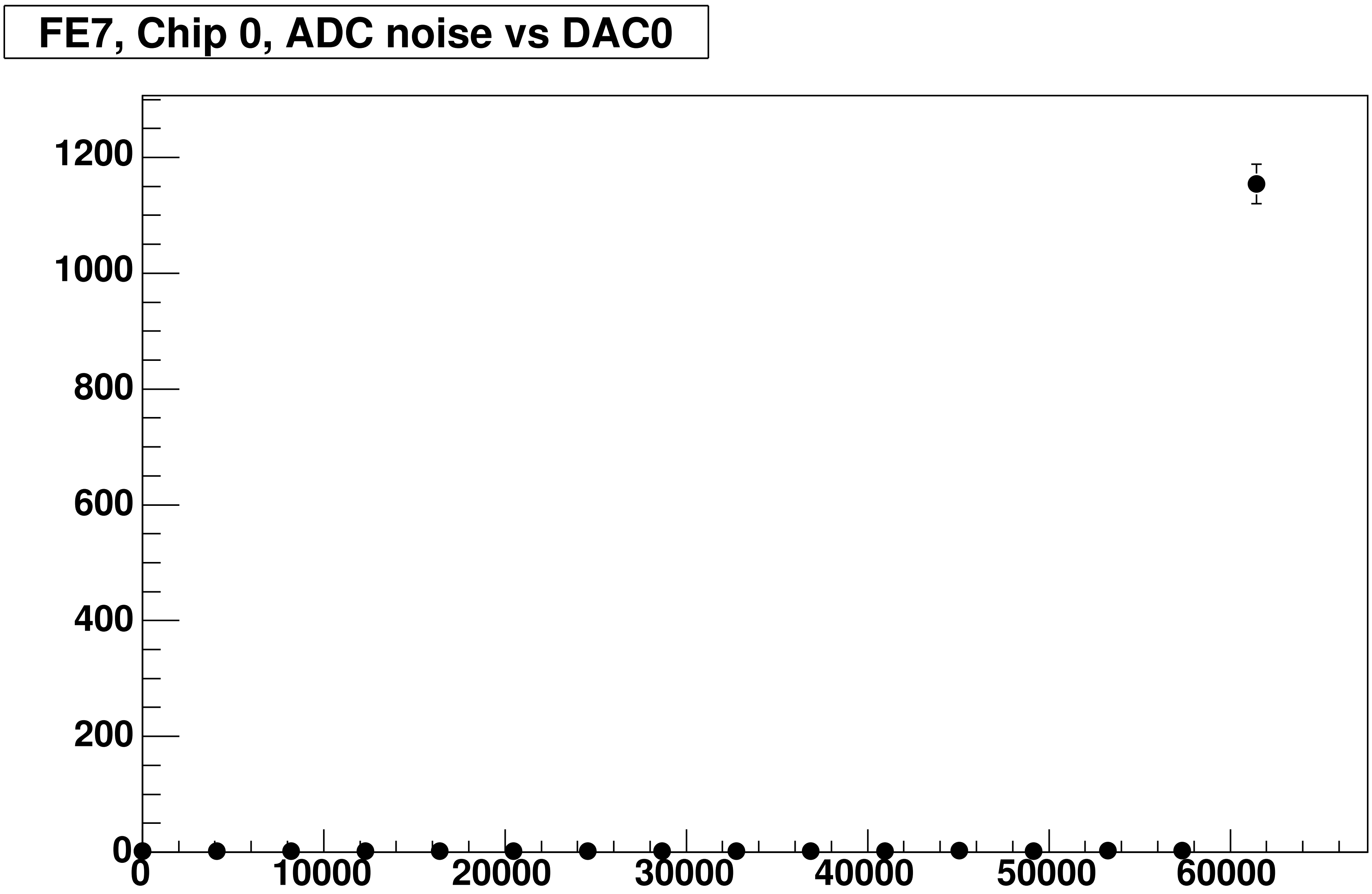
FE6, Chip 11, ADC noise vs DAC1
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

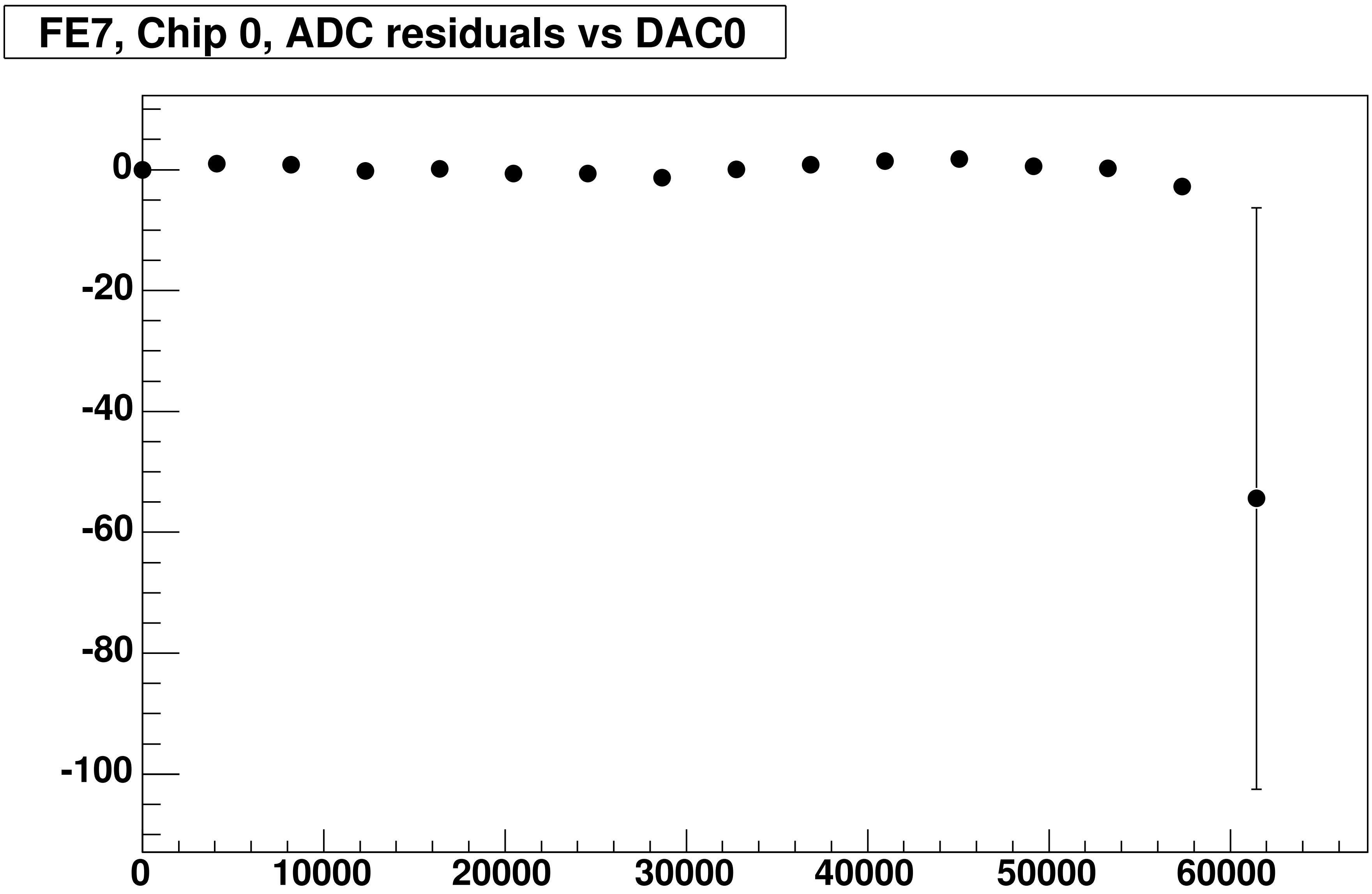


FE6, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

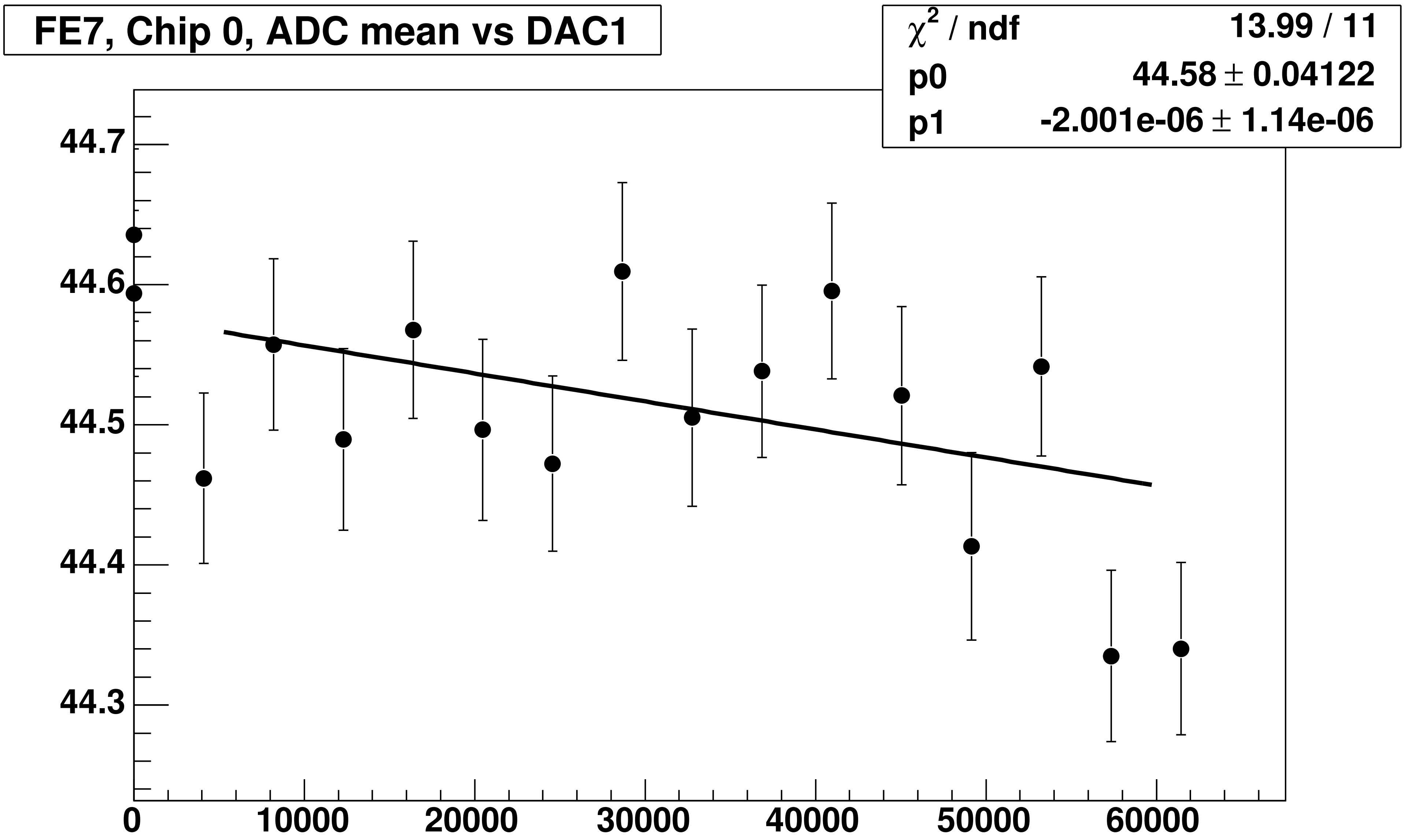


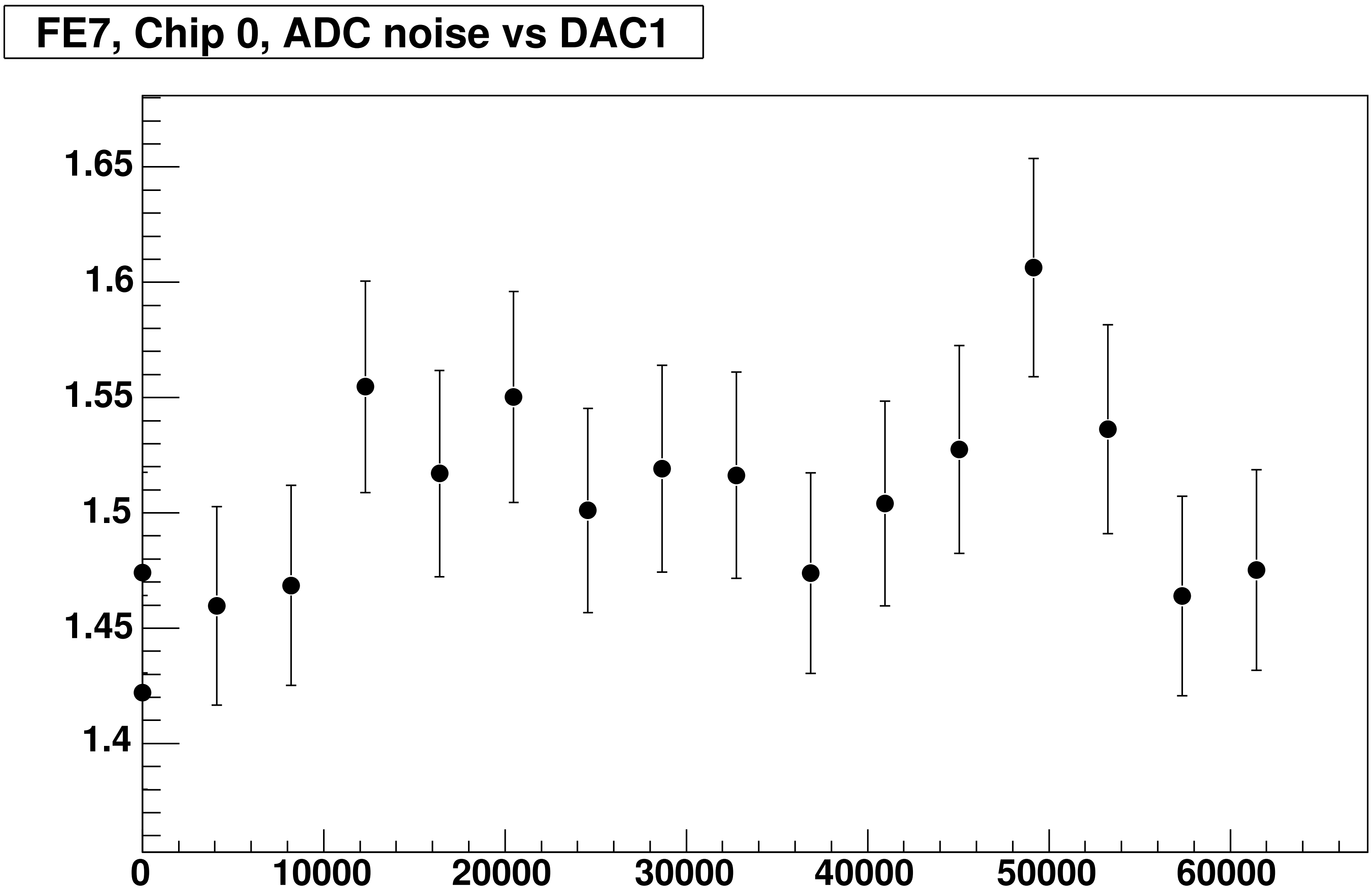
FE7, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2247 / 11
p0 43.5 ± 0.04278
p1 0.4505 ± 1.395e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

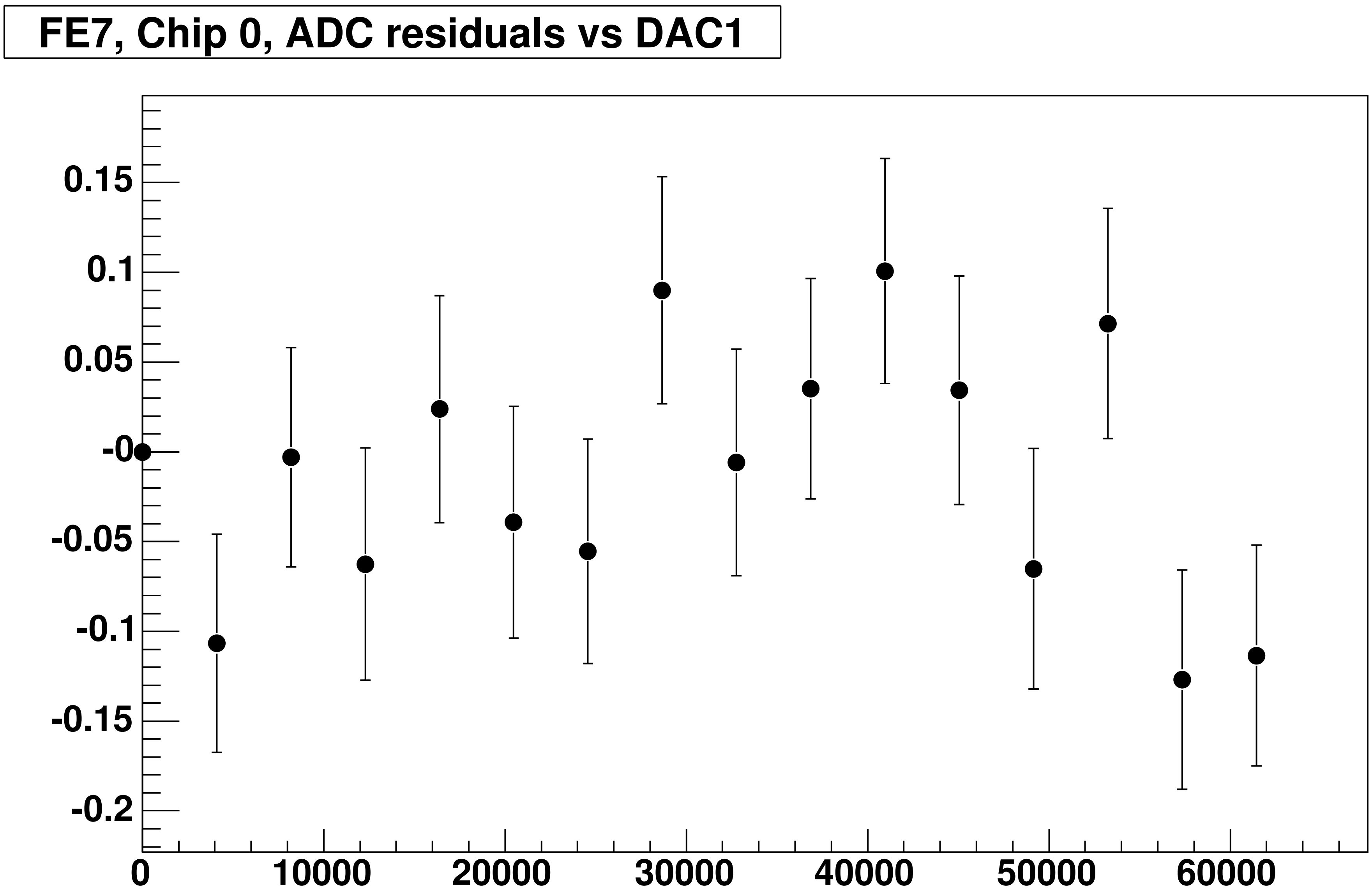

FE7, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



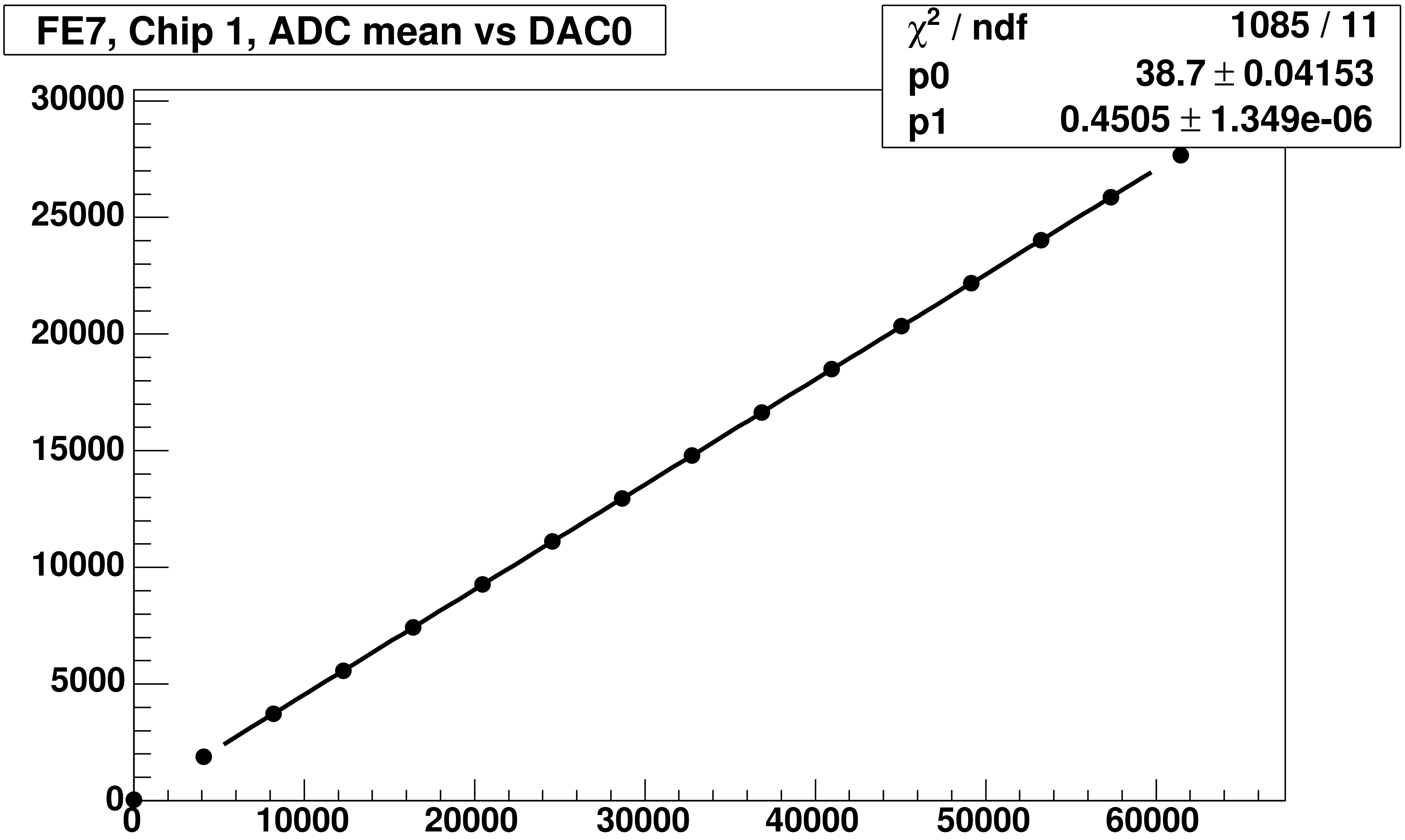
FE7, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE7, Chip 0, ADC mean vs DAC1
χ^2 / ndf 13.99 / 11
p0 44.58 ± 0.04122
p1 -2.001e-06 ± 1.14e-06
44.7
44.6
44.5
44.4
44.3
0
10000
20000
30000
40000
50000
60000

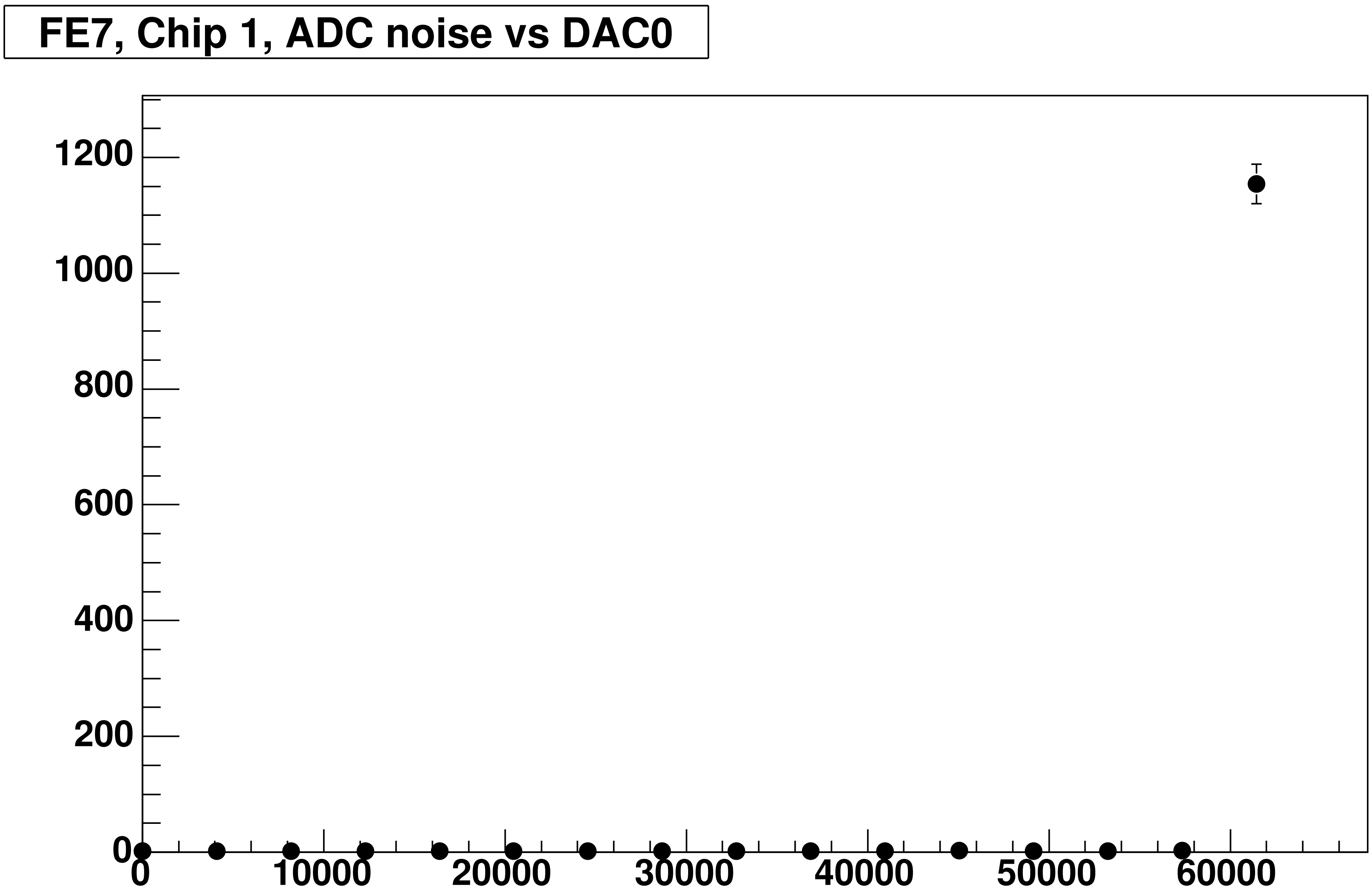

FE7, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

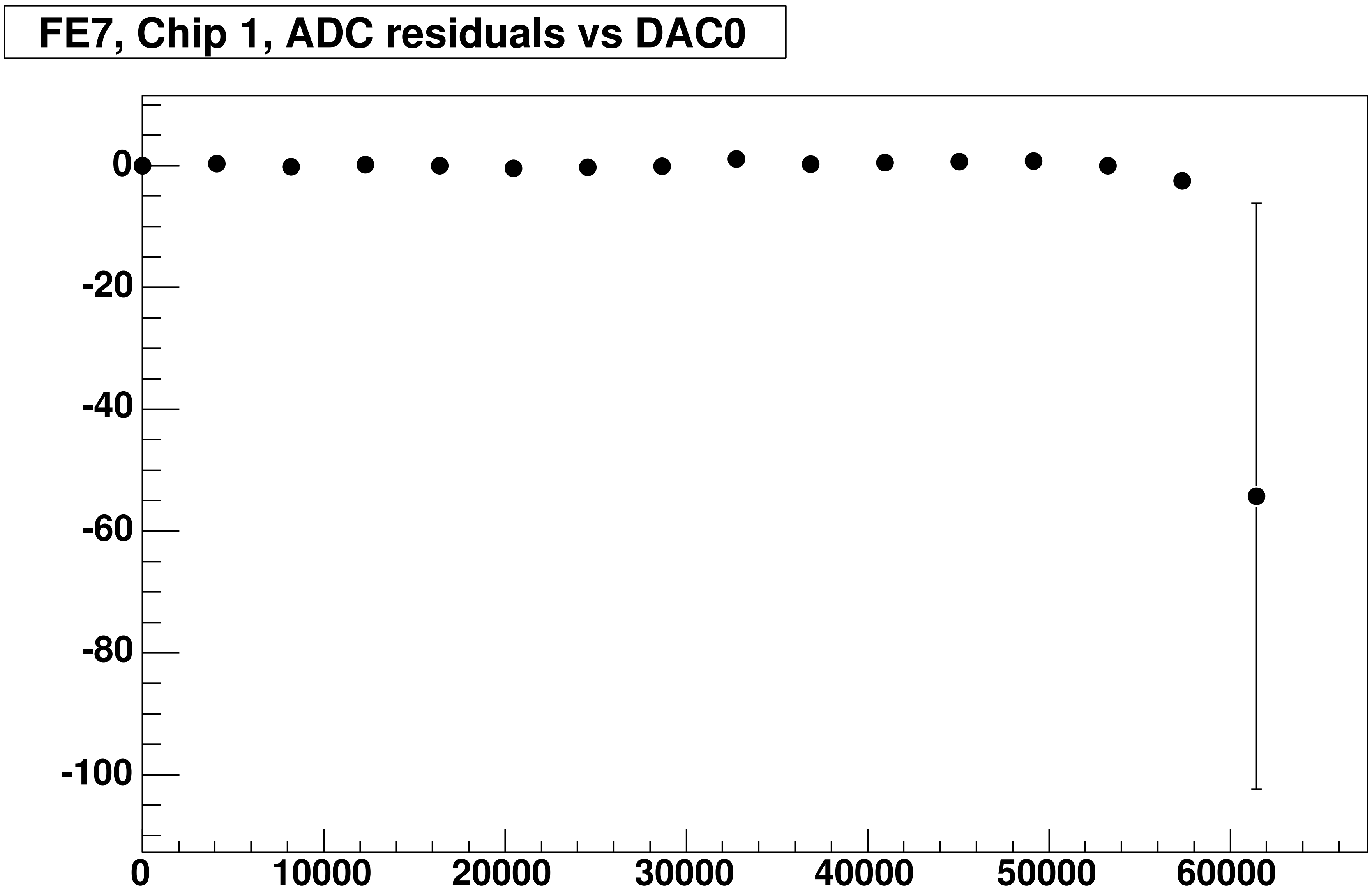


FE7, Chip 0, ADC residuals vs DAC1
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

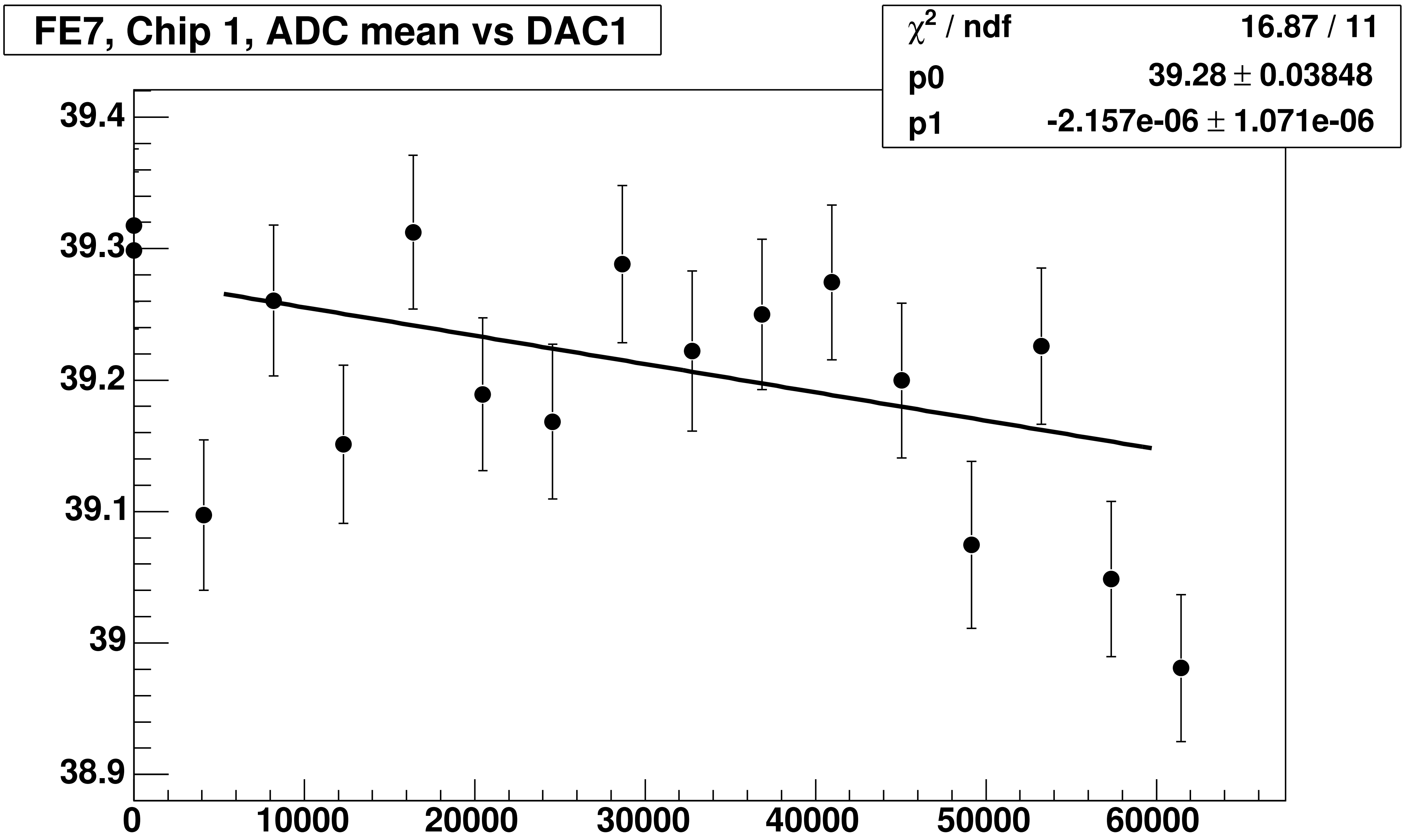


FE7, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1085 / 11
p0 38.7 ± 0.04153
p1 0.4505 ± 1.349e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

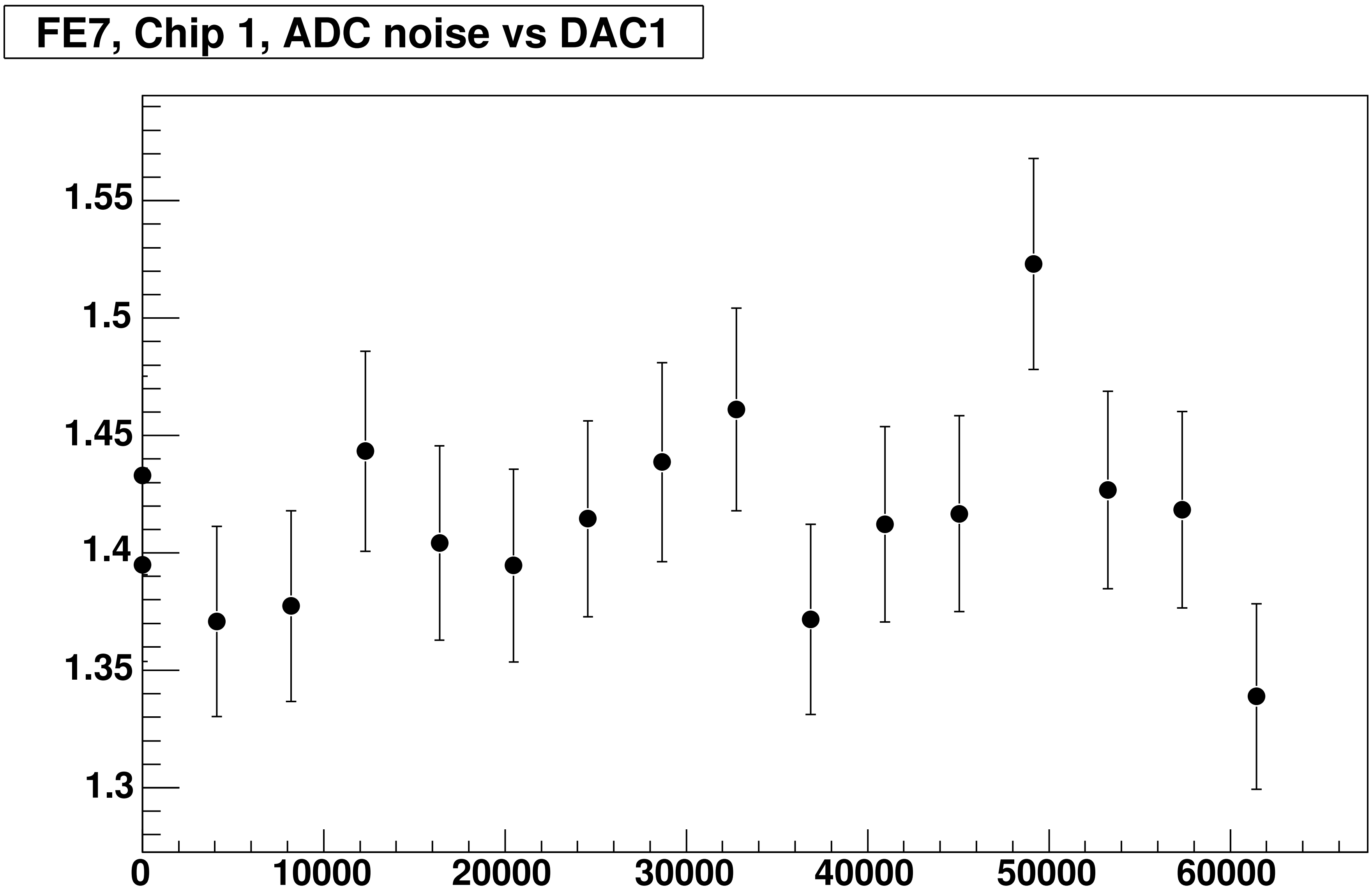

FE7, Chip 1, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

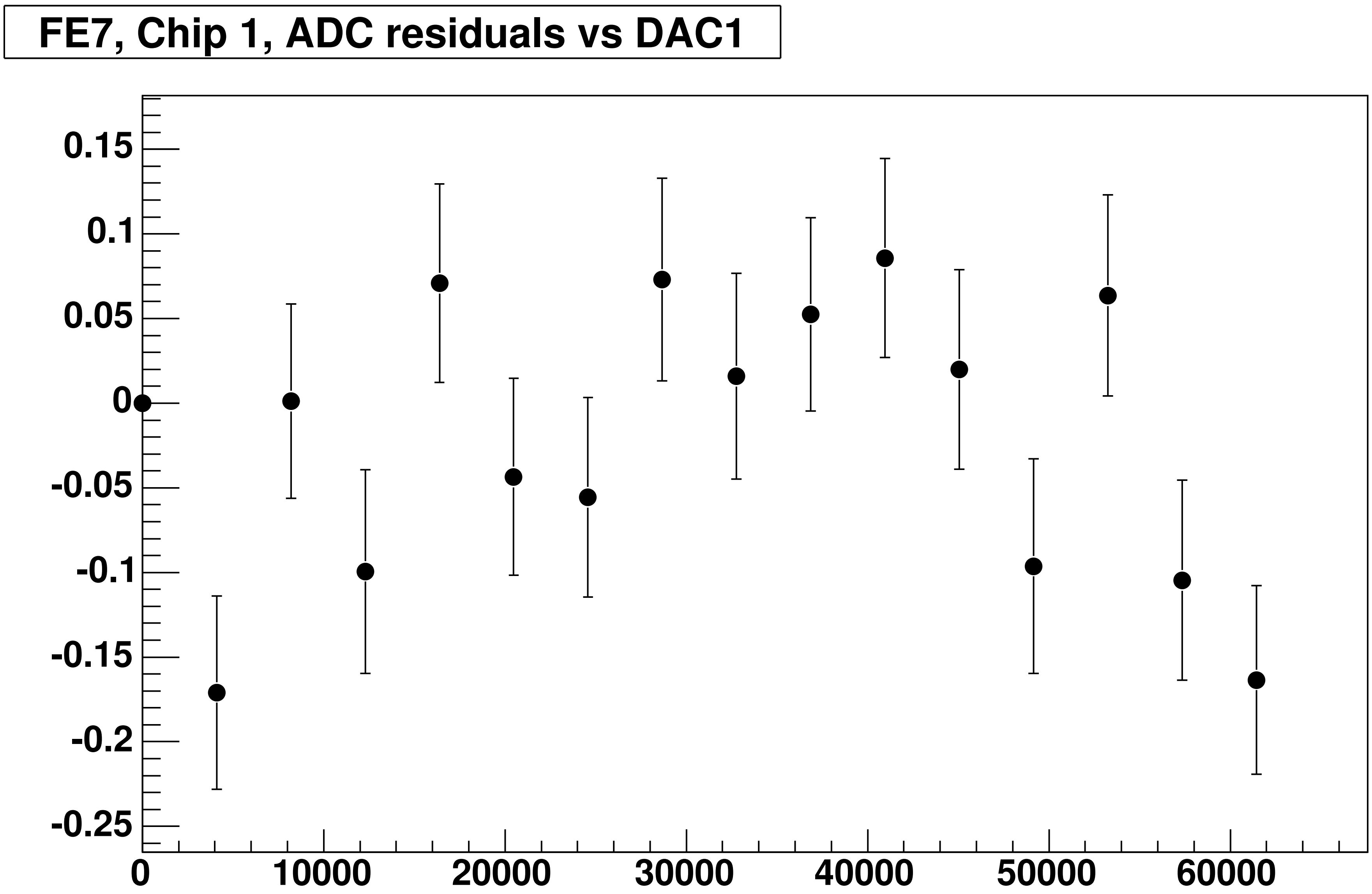


FE7, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

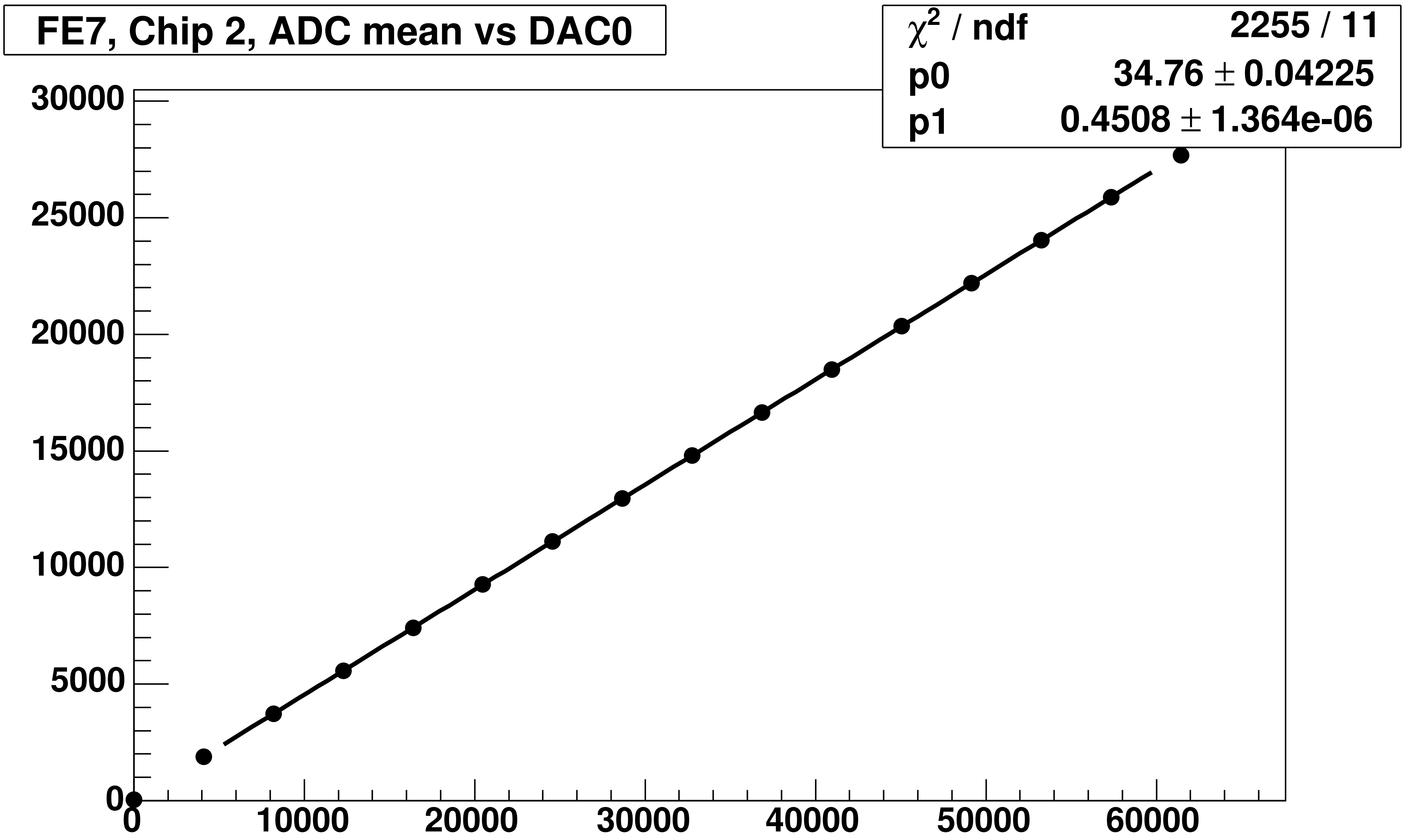


FE7, Chip 1, ADC mean vs DAC1
χ² / ndf 16.87 / 11
p0 39.28 ± 0.03848
p1 -2.157e-06 ± 1.071e-06
39.4
39.3
39.2
39.1
39
38.9
0
10000
20000
30000
40000
50000
60000

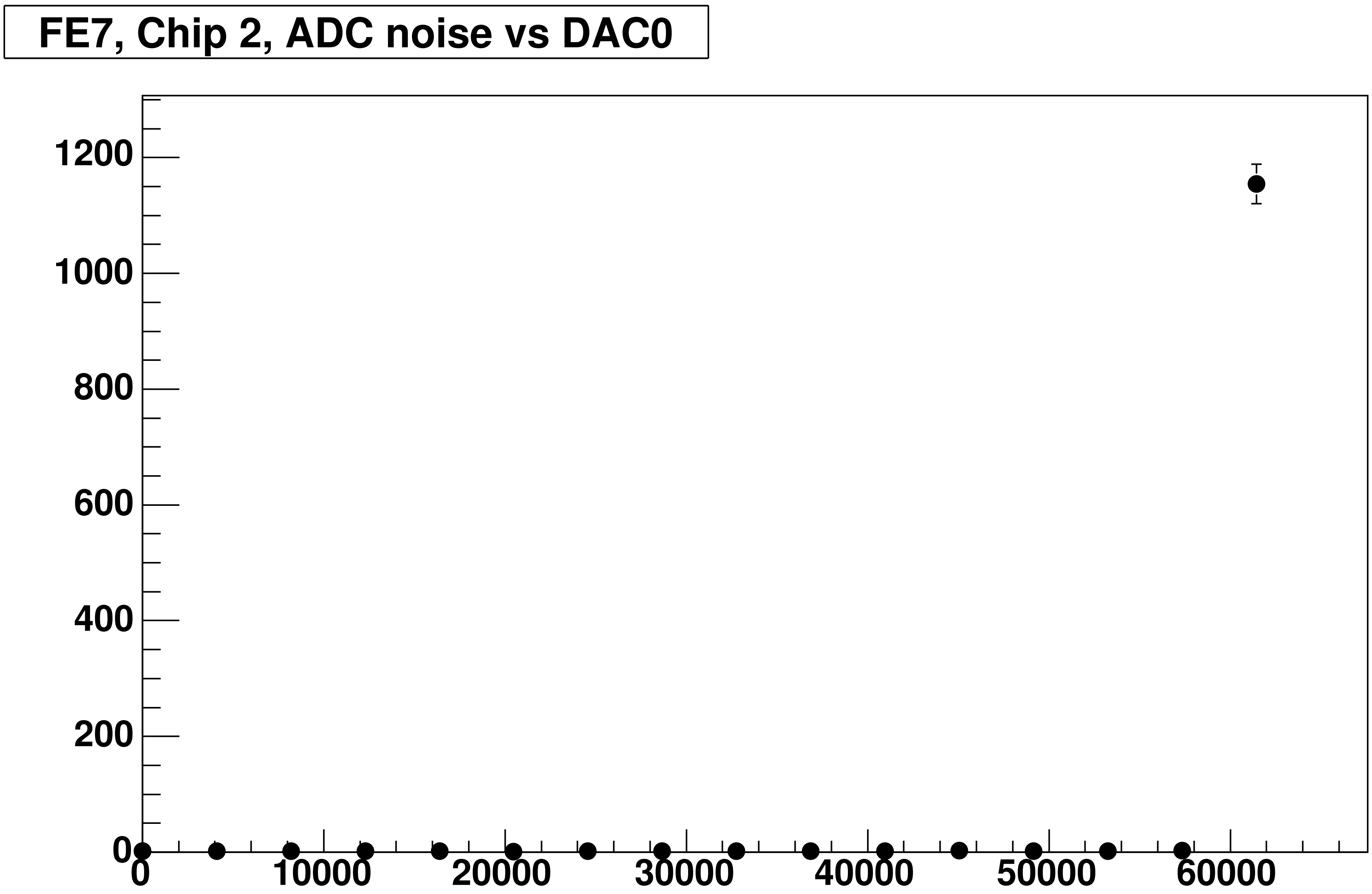

FE7, Chip 1, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

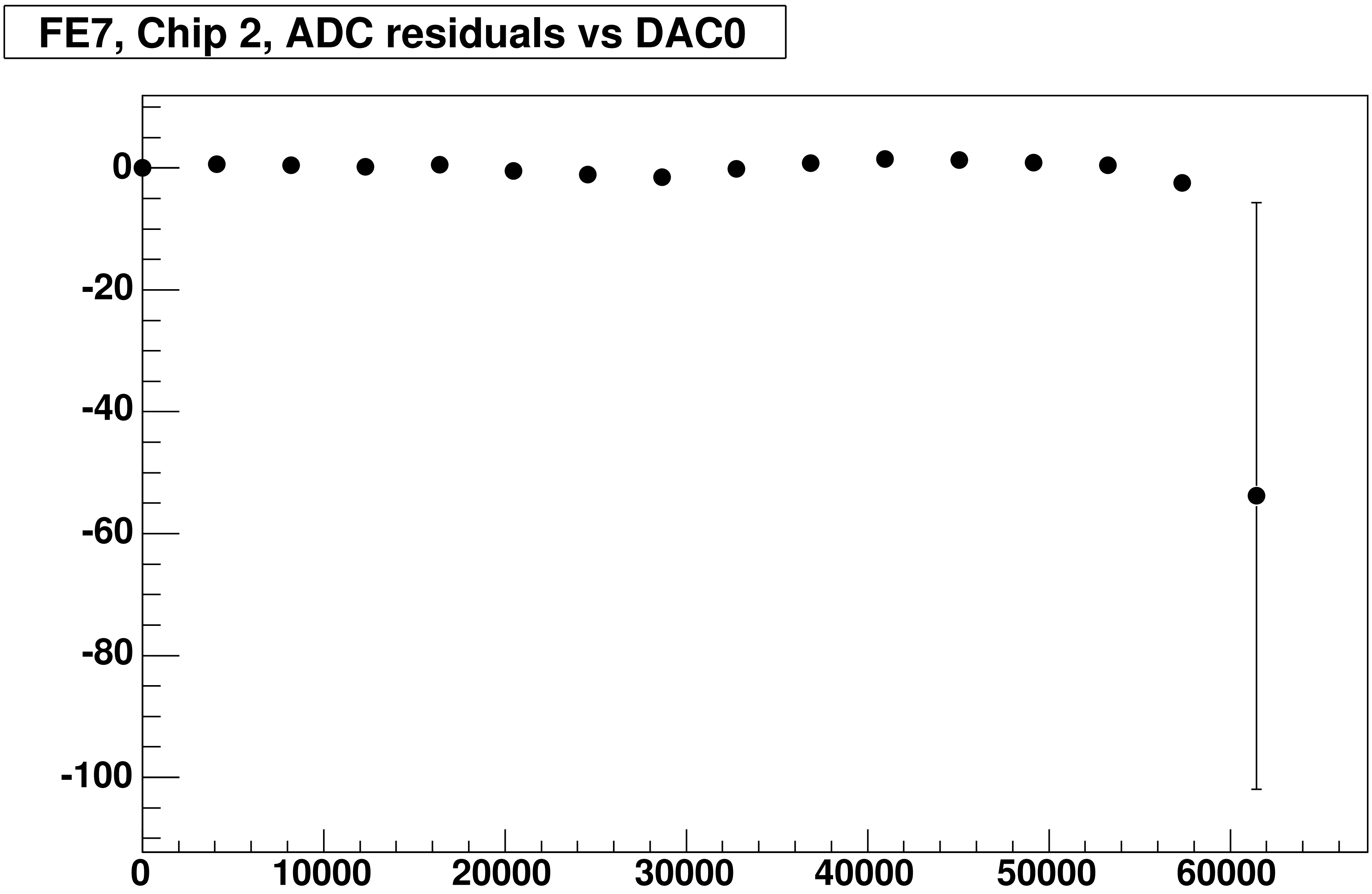


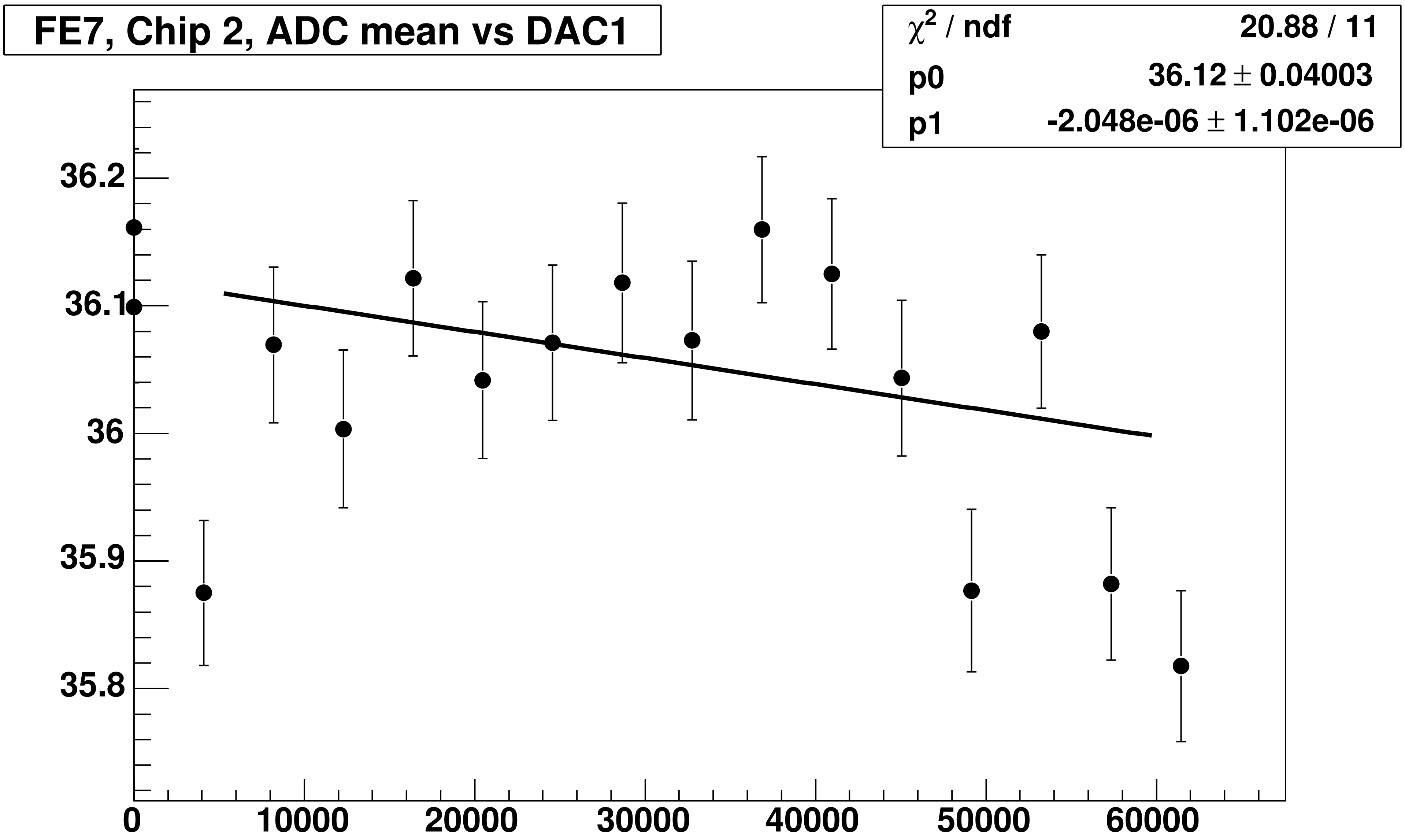
FE7, Chip 1, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

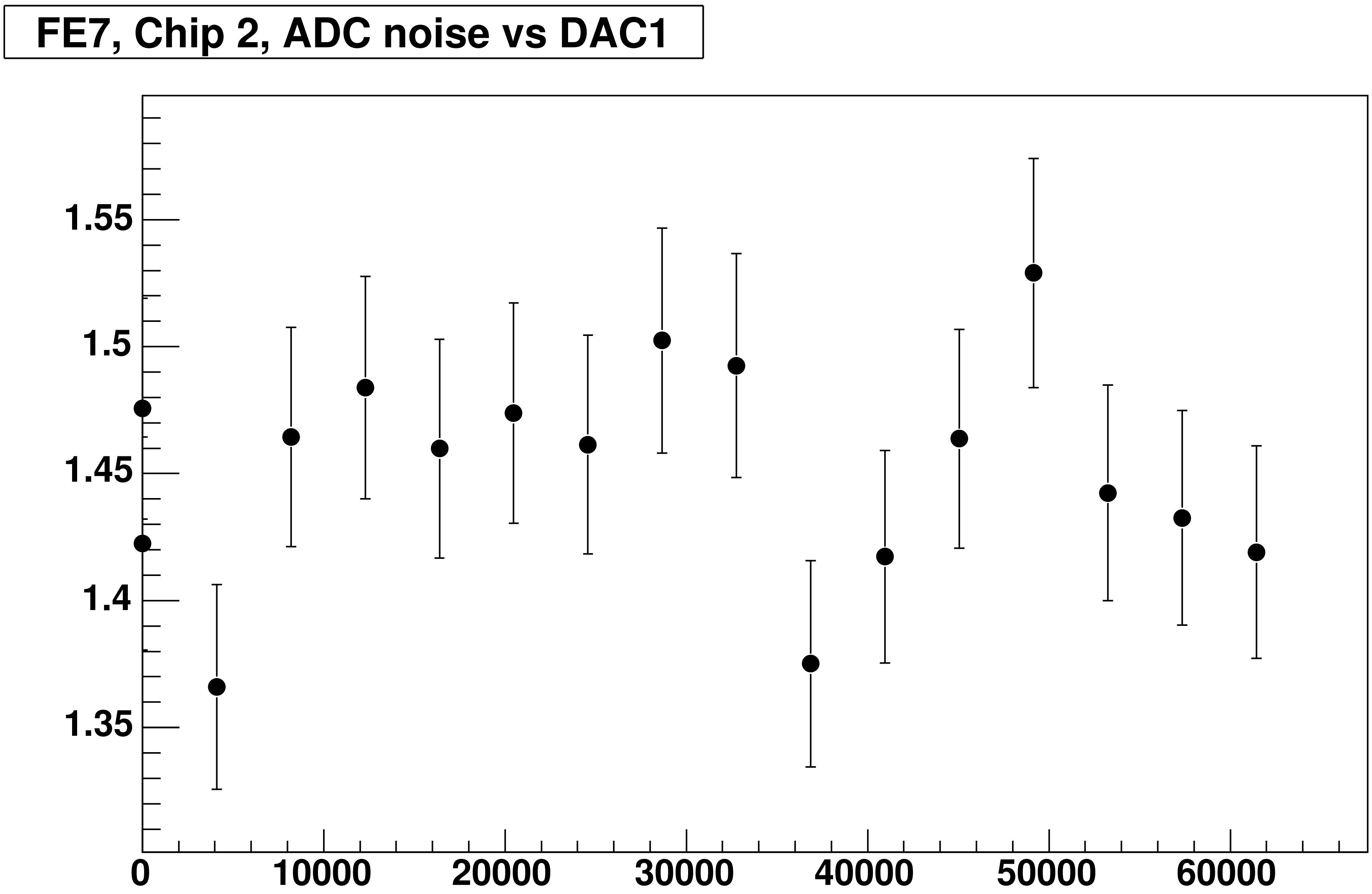


FE7, Chip 2, ADC mean vs DAC0
χ2 / ndf 2255 / 11
p0 34.76 ± 0.04225
p1 0.4508 ± 1.364e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

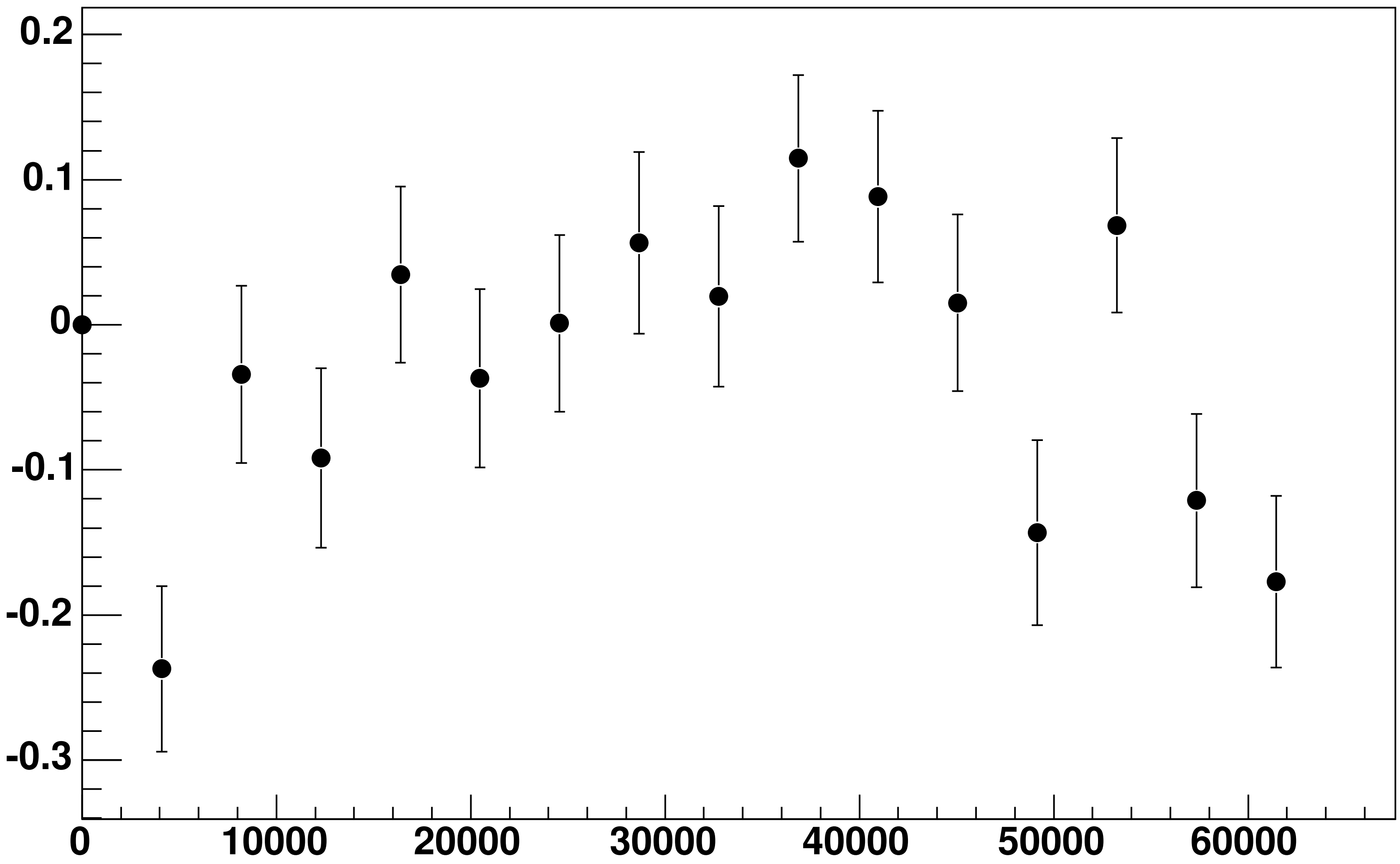

FE7, Chip 2, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

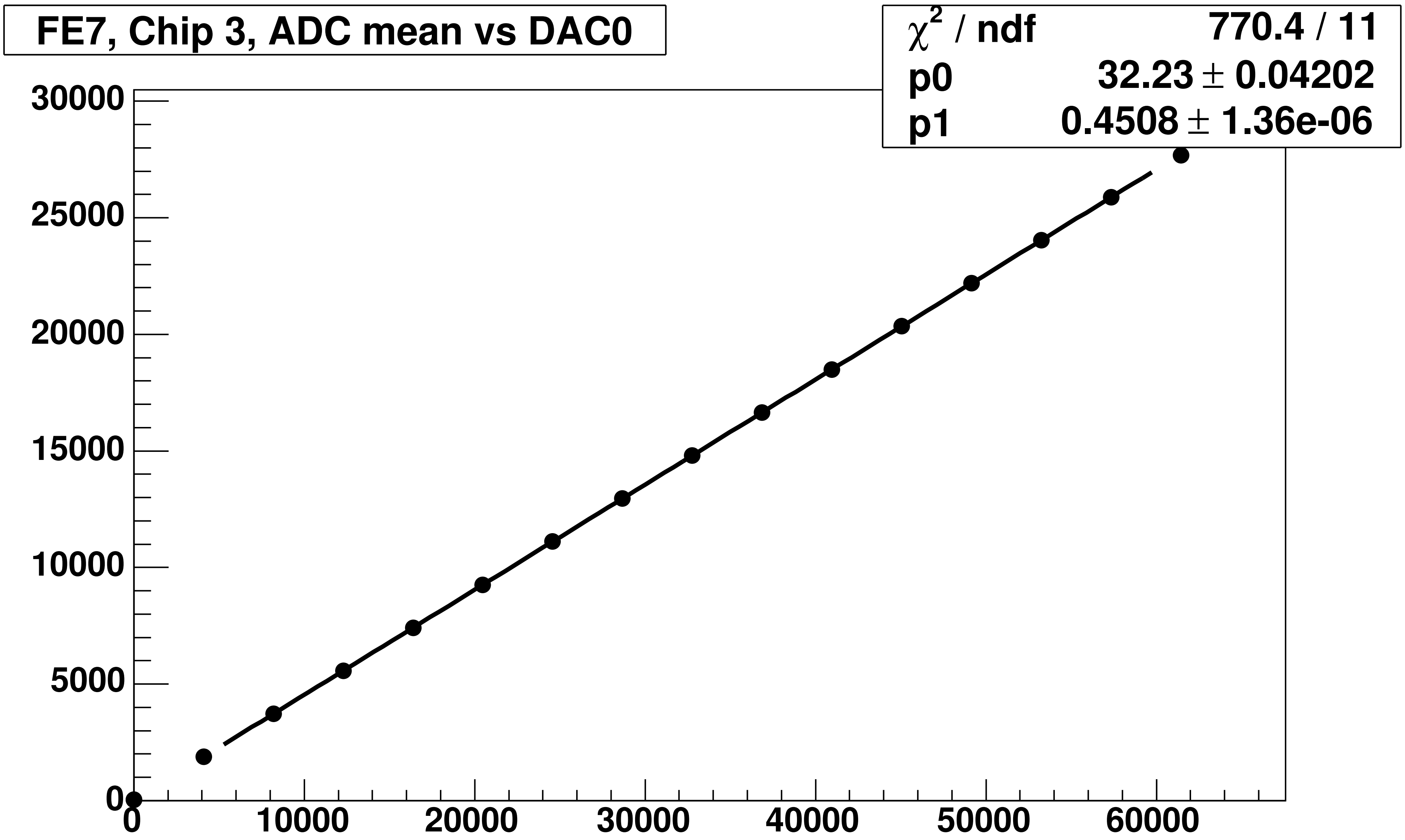

FE7, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE7, Chip 2, ADC mean vs DAC1
χ^2 / ndf 20.88 / 11
p0 36.12 ± 0.04003
p1 -2.048e-06 ± 1.102e-06
36.2
36.1
36
35.9
35.8
0
10000
20000
30000
40000
50000
60000

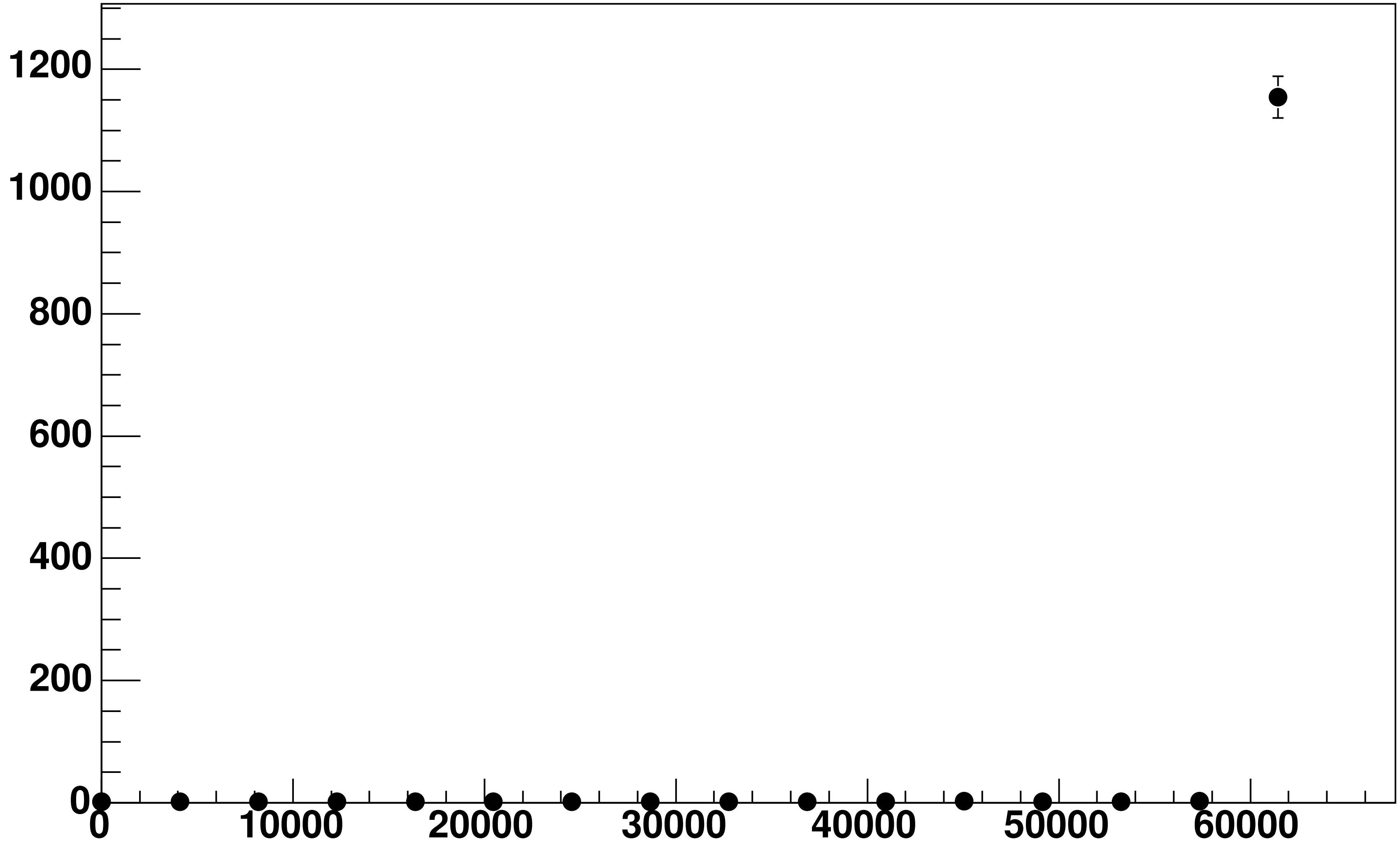

FE7, Chip 2, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

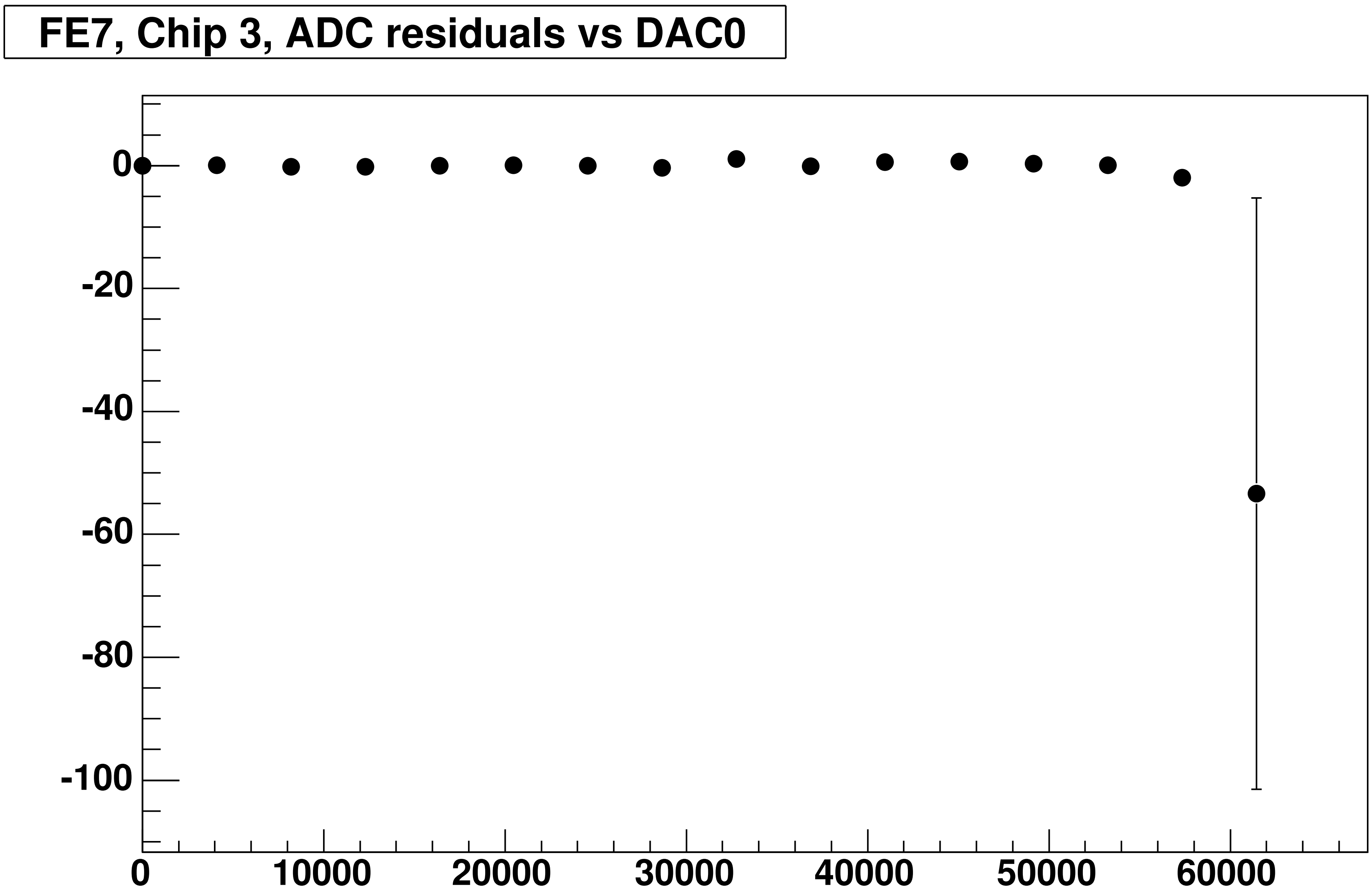
FE7, Chip 2, ADC residuals vs DAC1

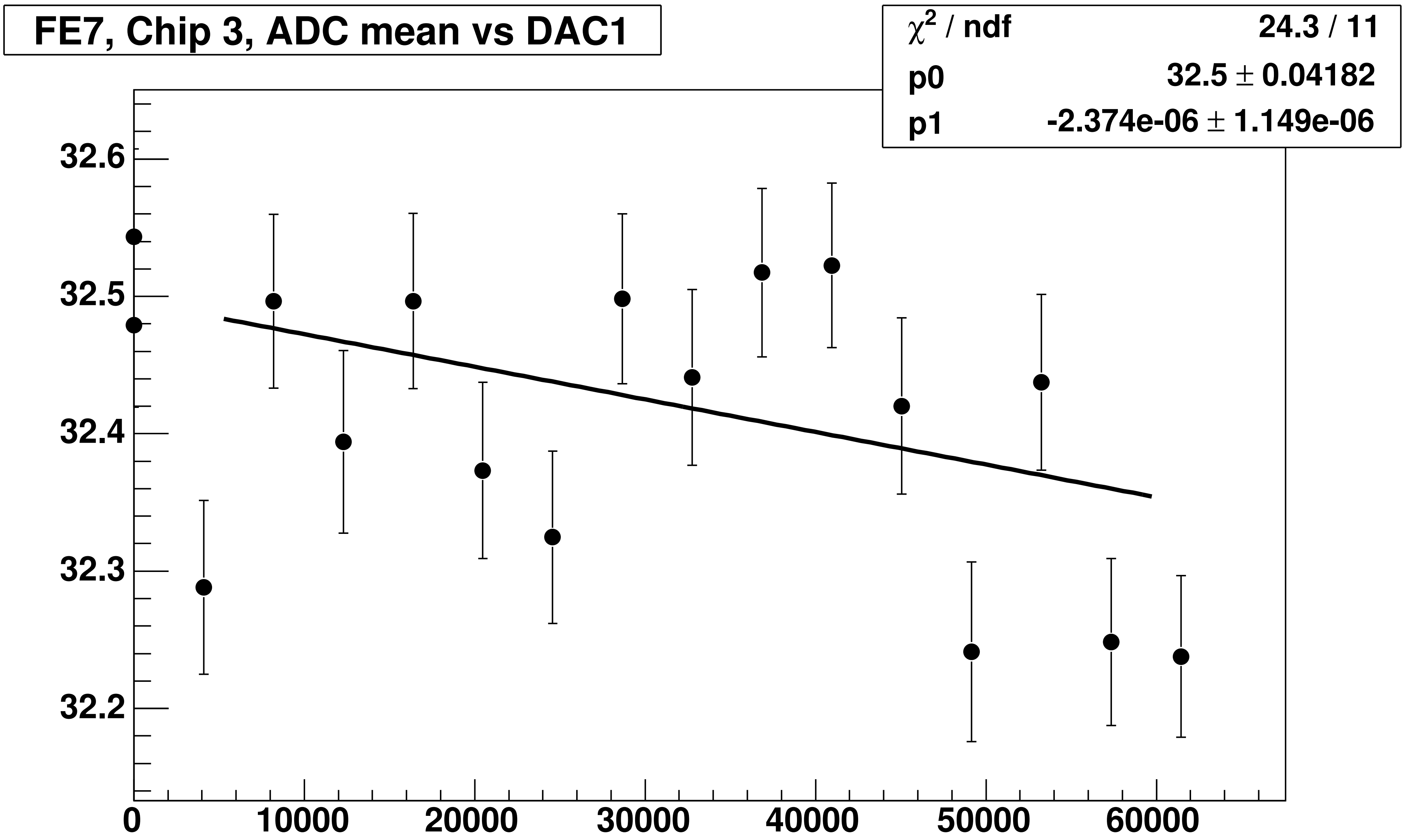


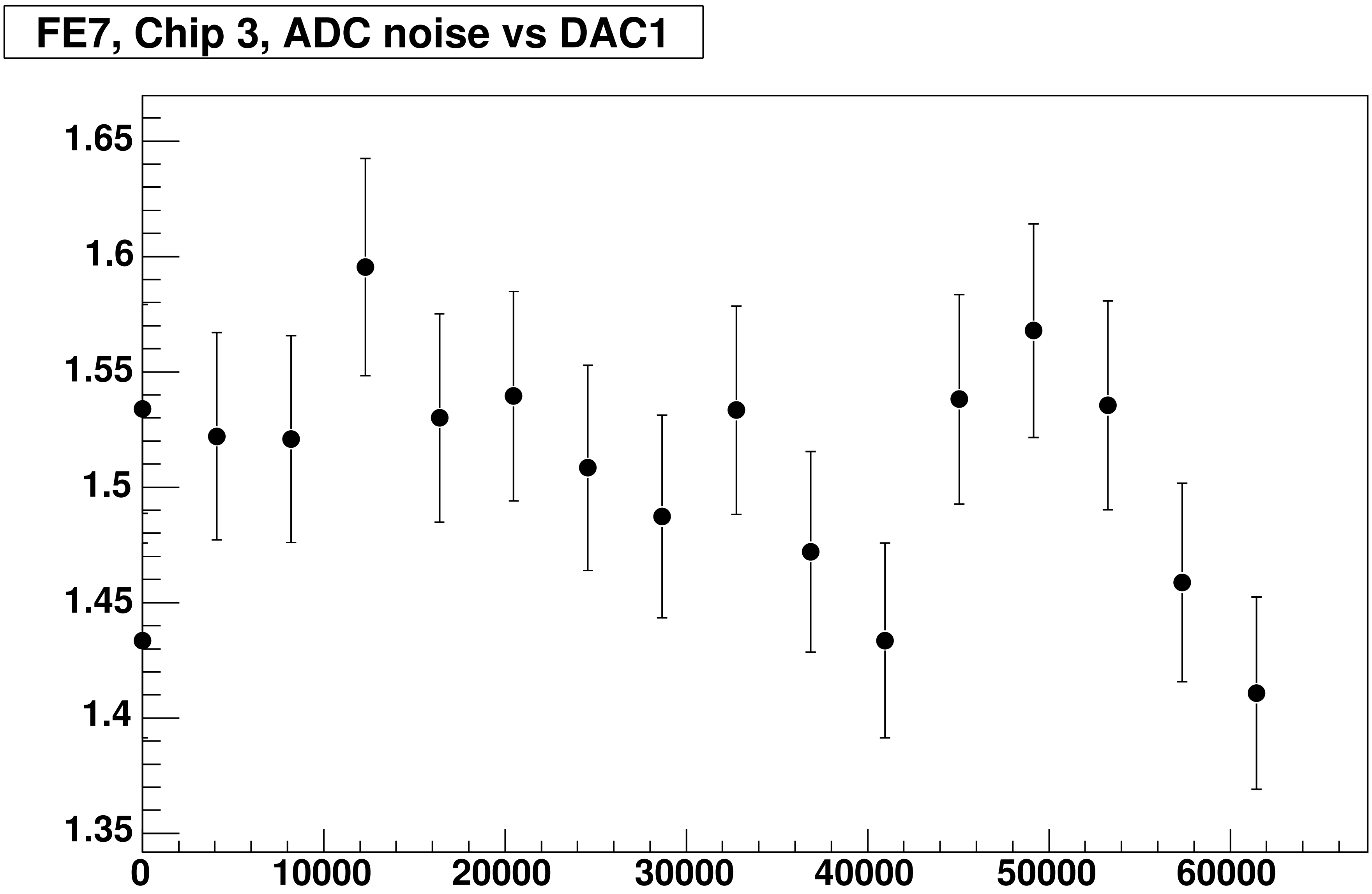

FE7, Chip 3, ADC mean vs DAC0
χ^2 / ndf 770.4 / 11
p0 32.23 ± 0.04202
p1 0.4508 ± 1.36e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

FE7, Chip 3, ADC noise vs DAC0

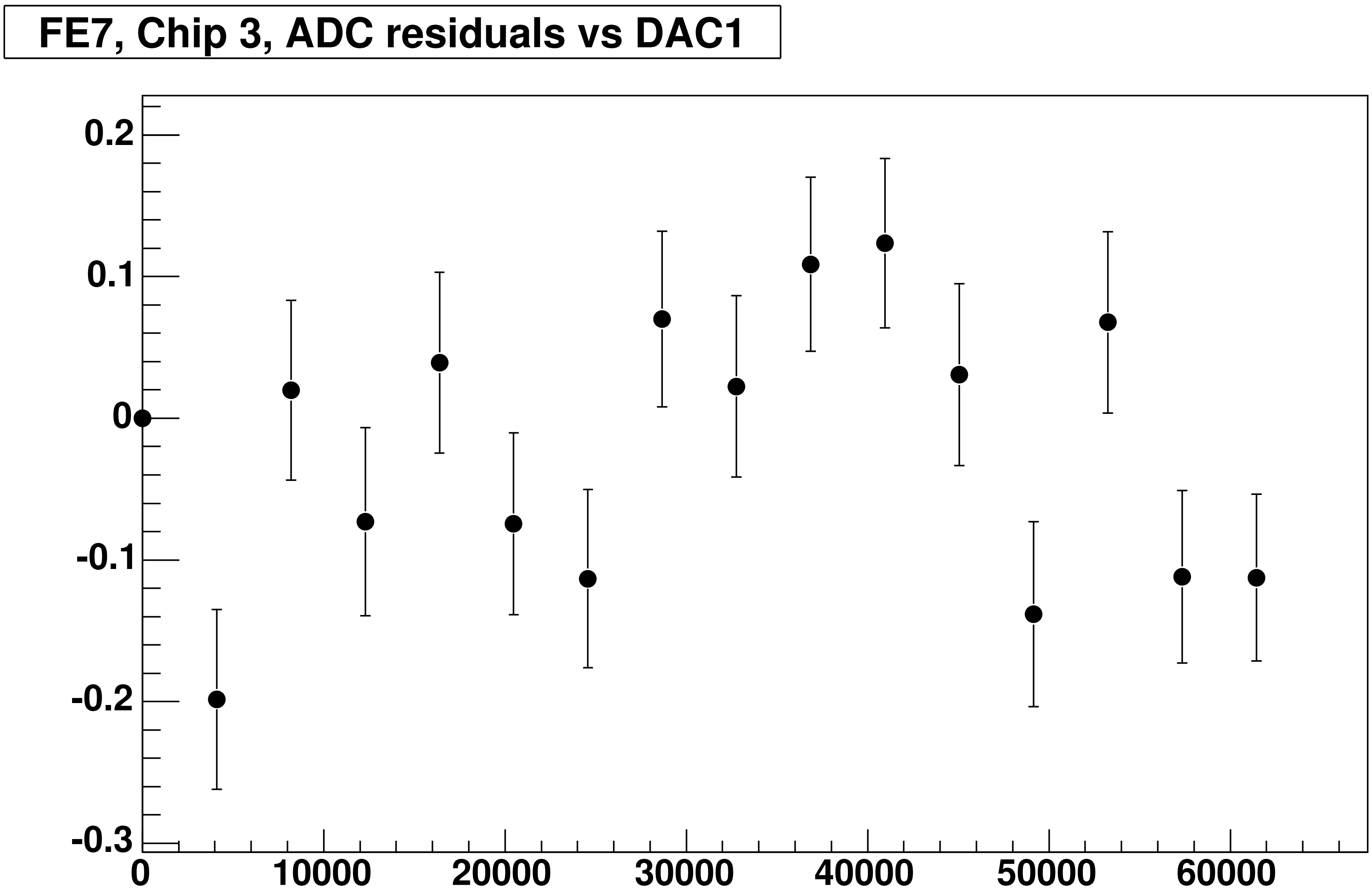



FE7, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

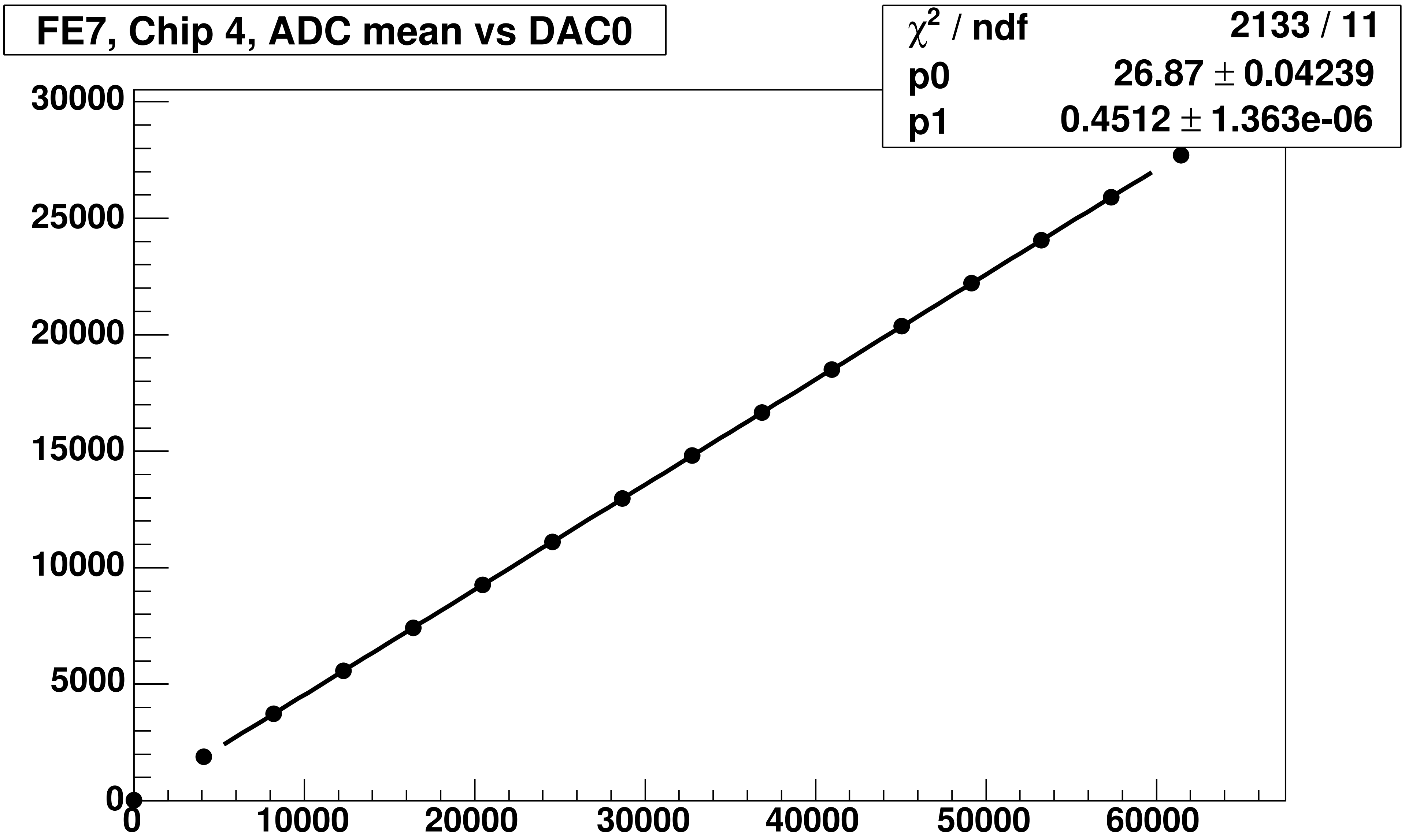

FE7, Chip 3, ADC mean vs DAC1
χ2 / ndf 24.3 / 11
p0 32.5 ± 0.04182
p1 -2.374e-06 ± 1.149e-06
32.2
32.3
32.4
32.5
32.6
0
10000
20000
30000
40000
50000
60000



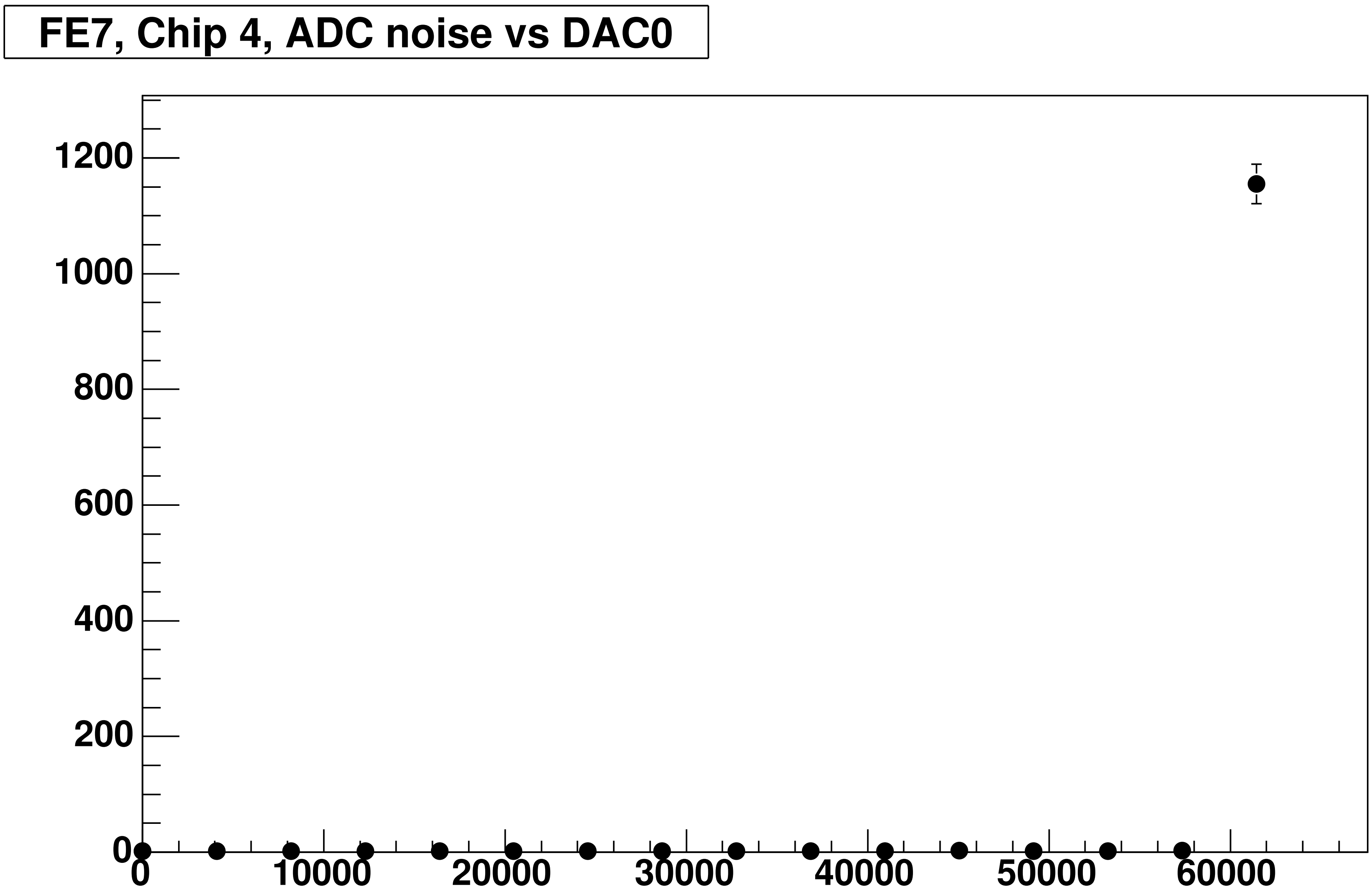
FE7, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

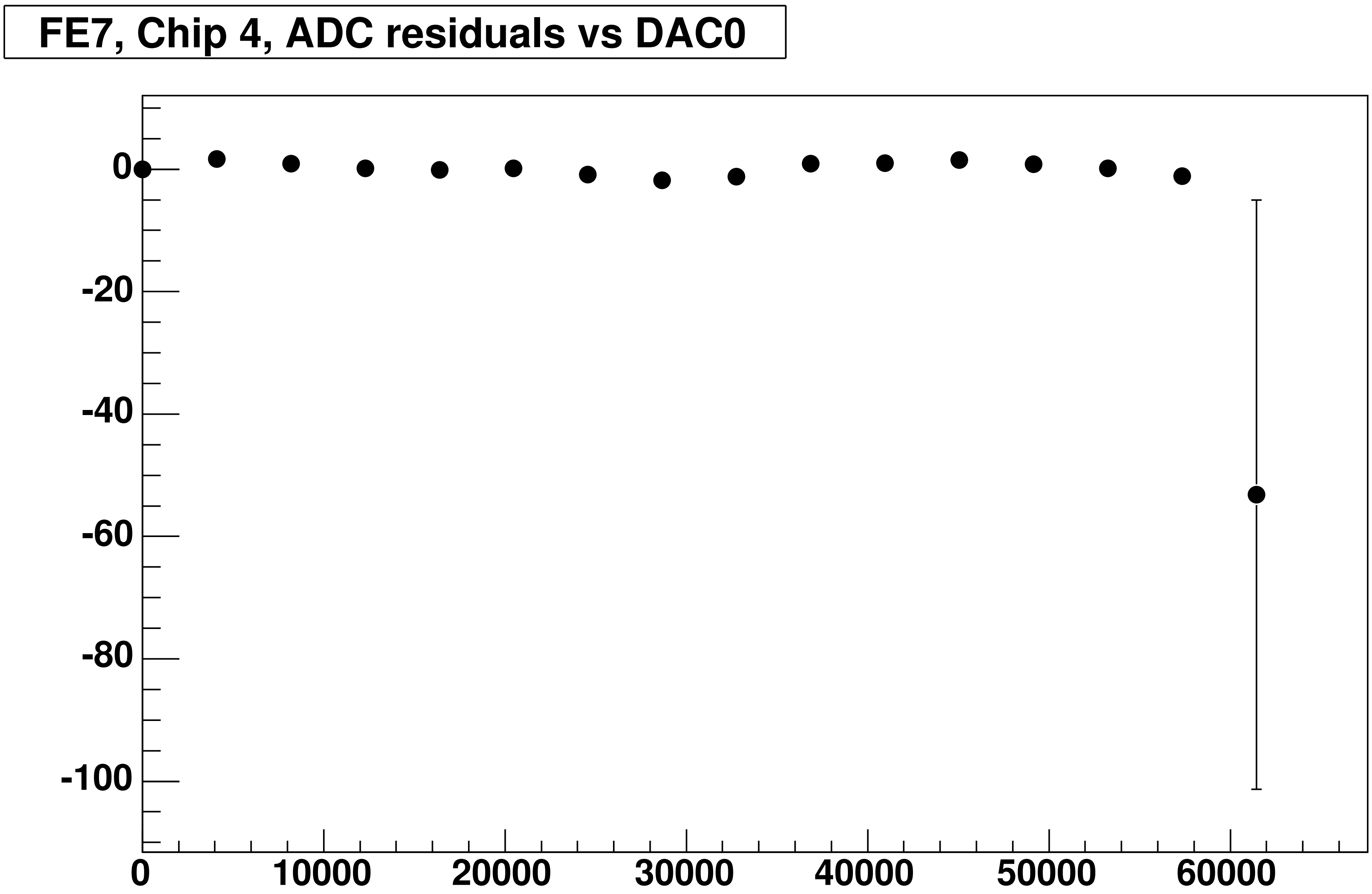


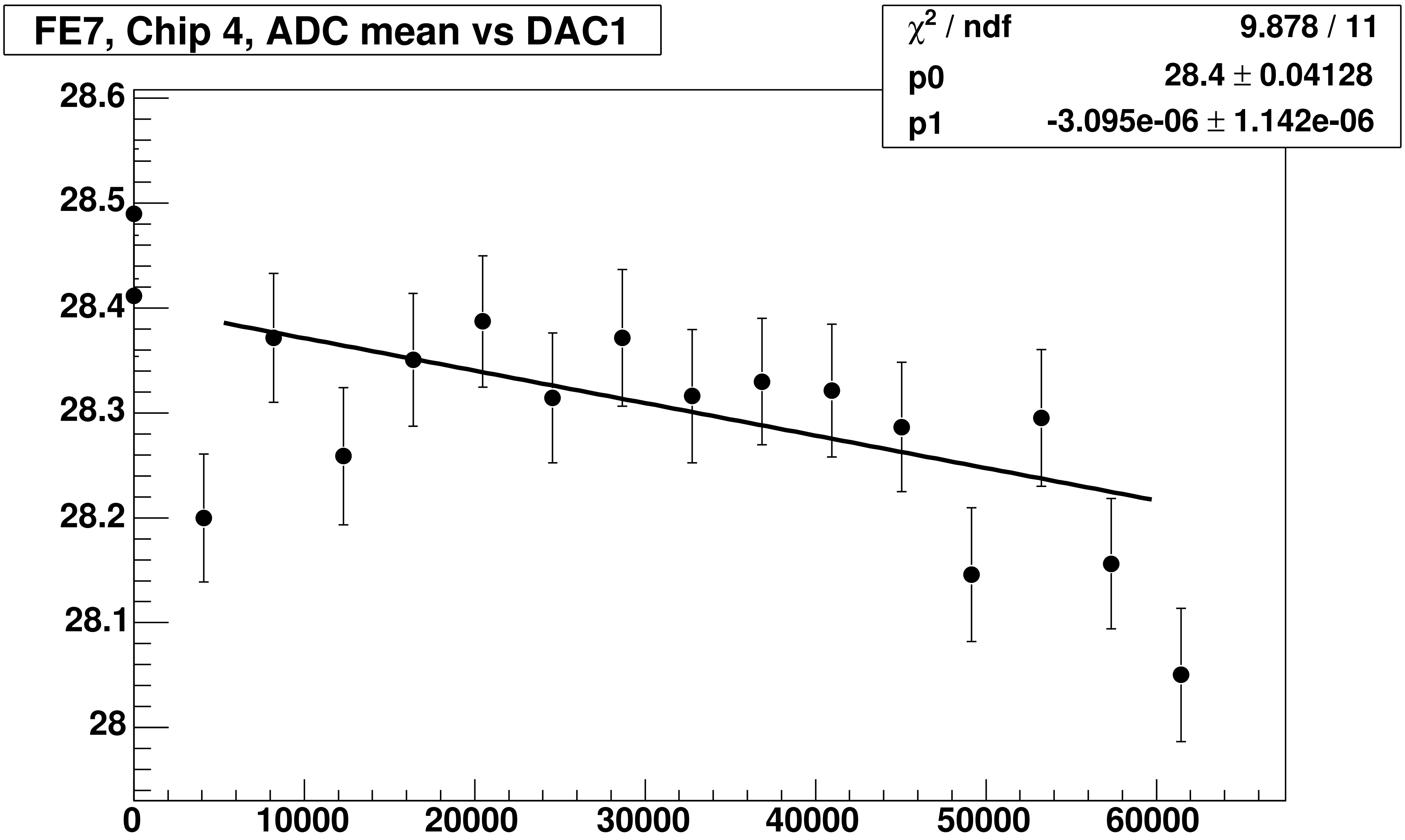
FE7, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



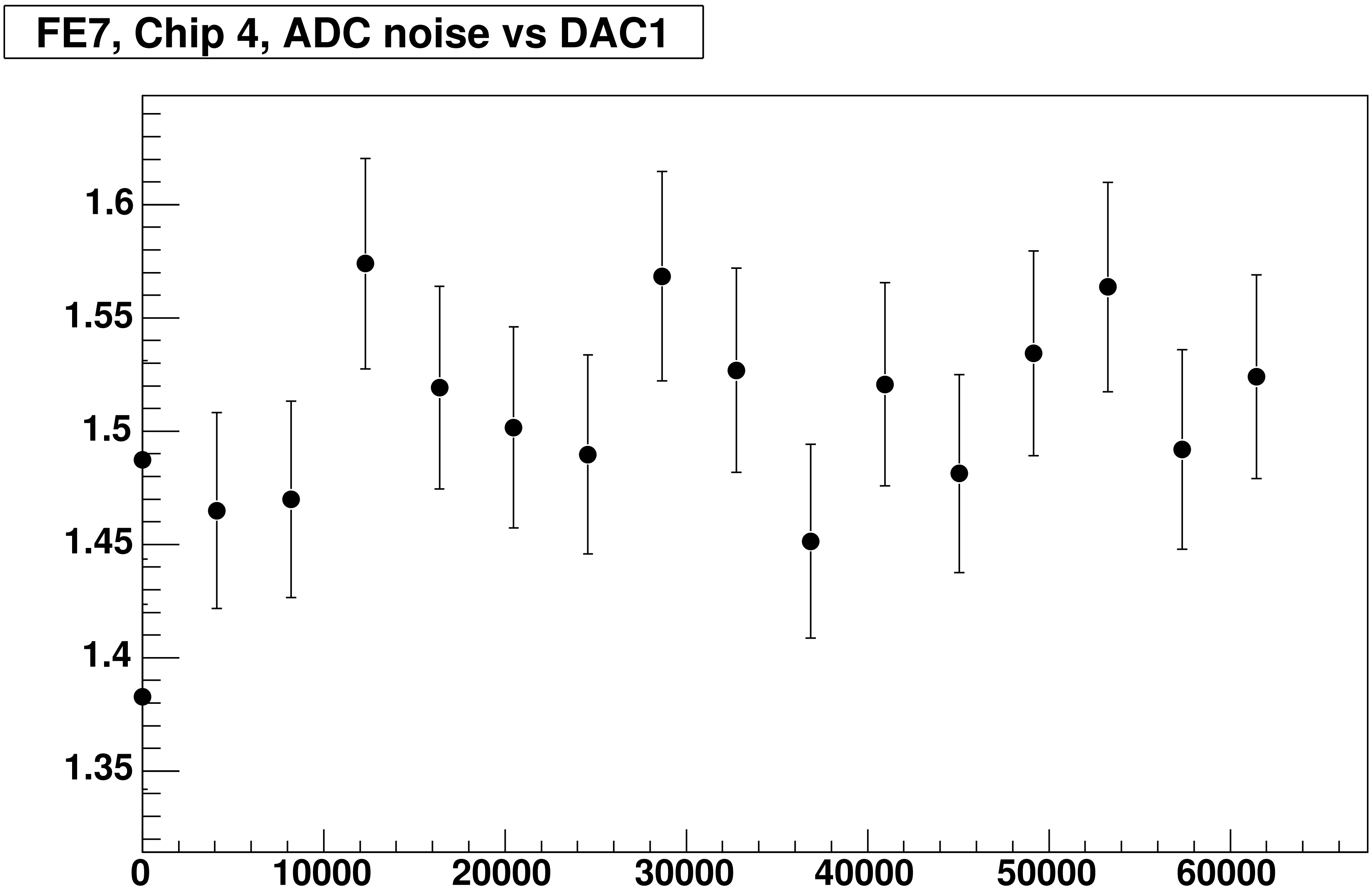
FE7, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2133 / 11
p0 26.87 ± 0.04239
p1 0.4512 ± 1.363e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

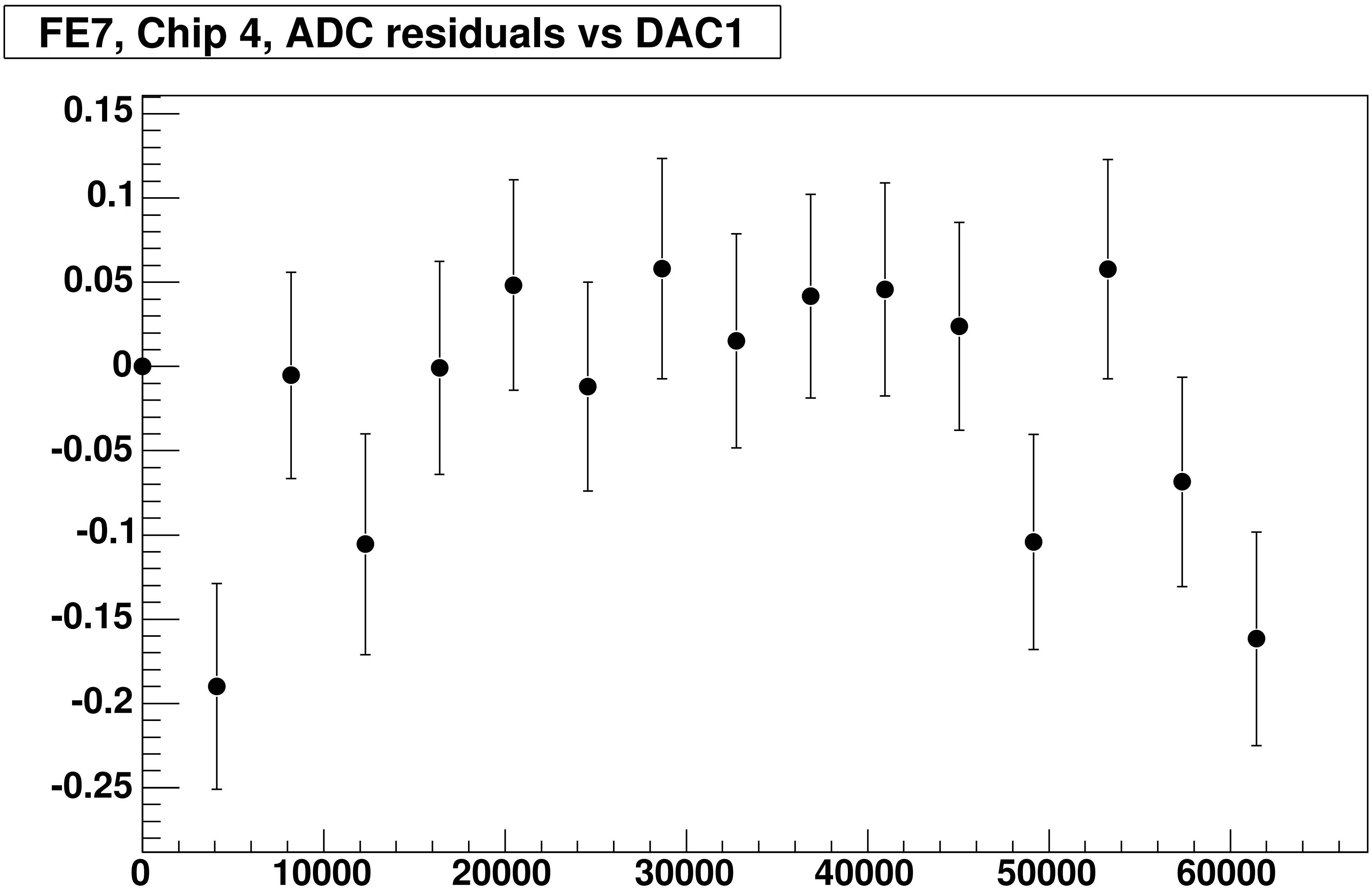

FE7, Chip 4, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

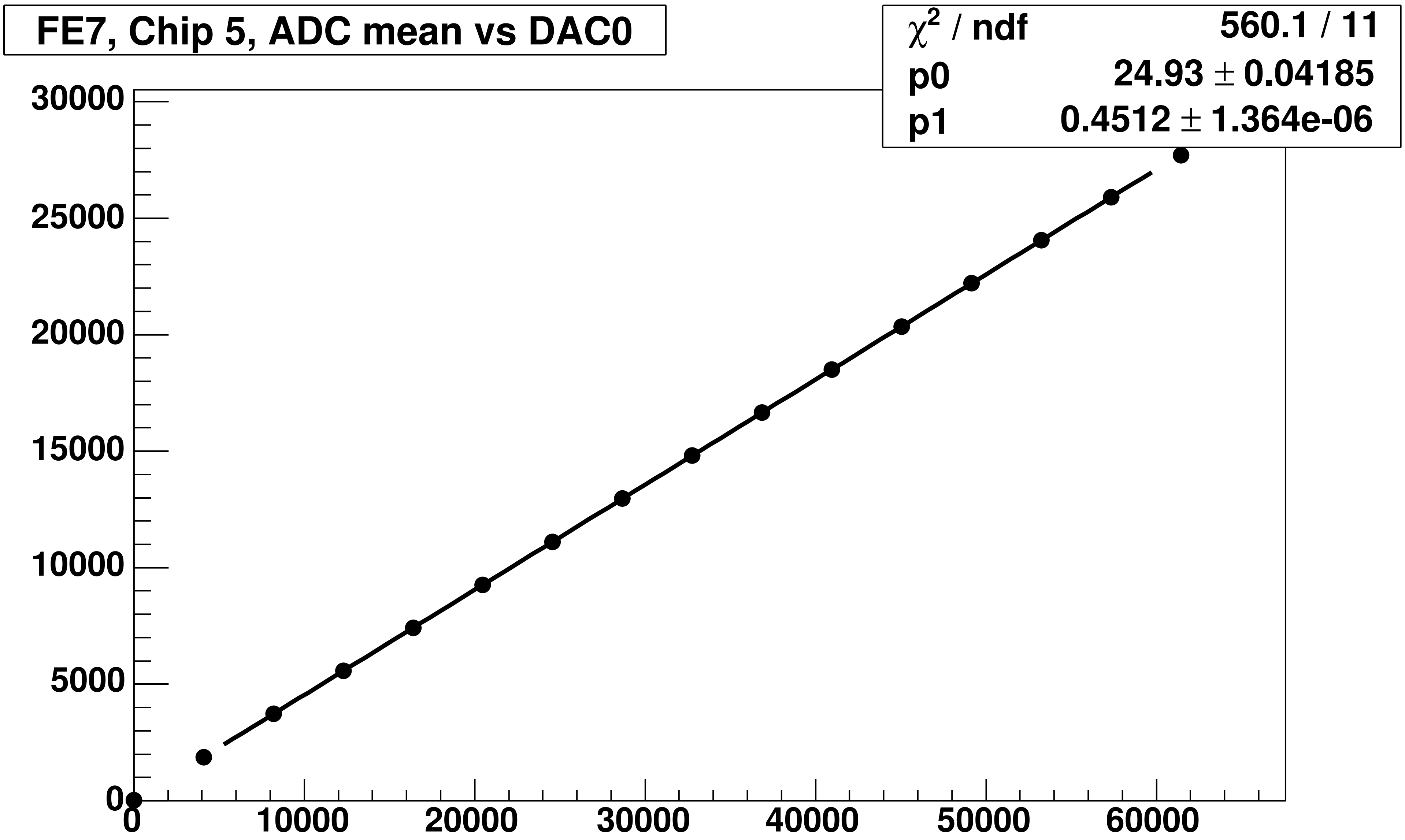

FE7, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



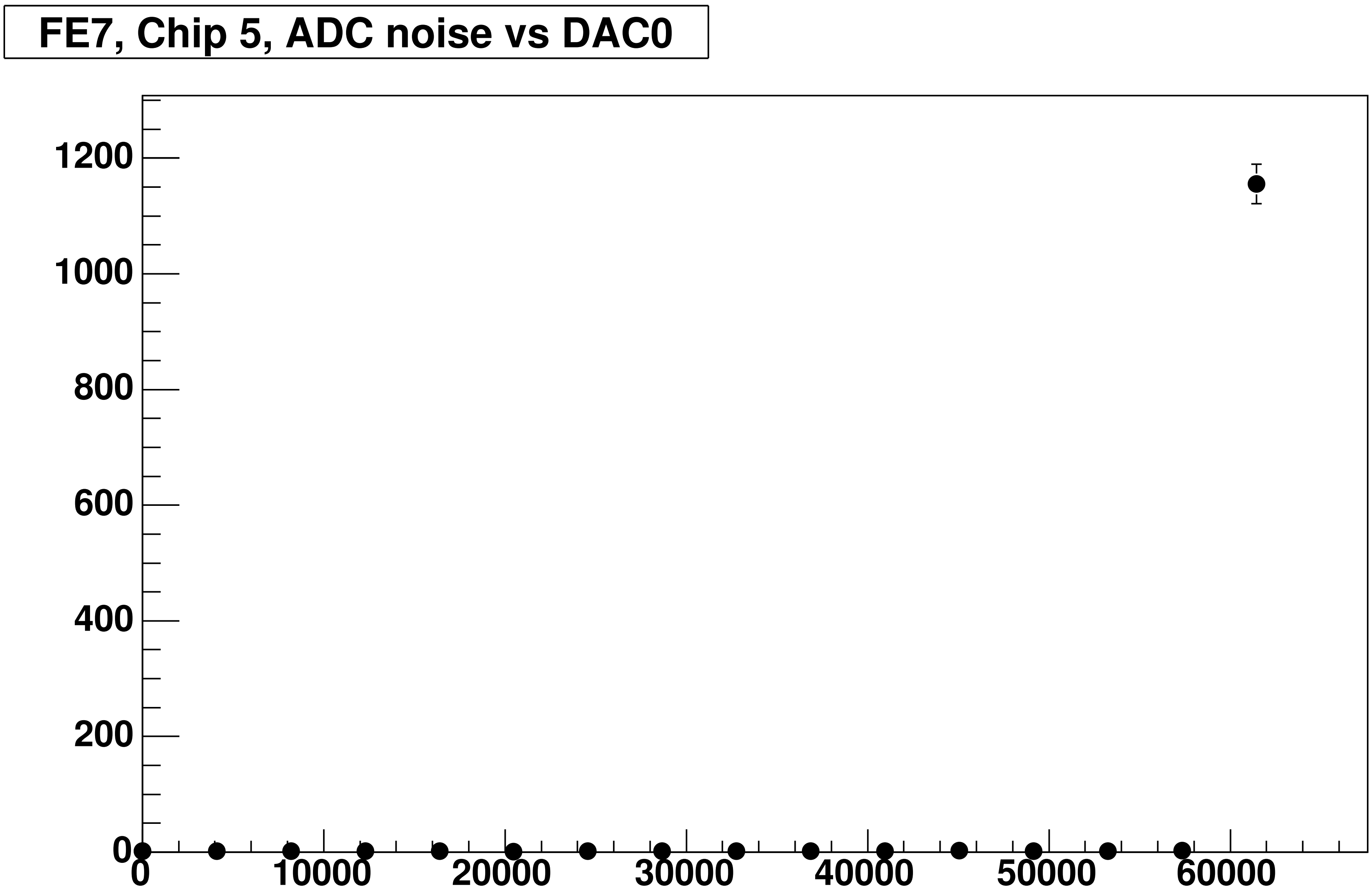
FE7, Chip 4, ADC mean vs DAC1
χ^2 / ndf 9.878 / 11
p0 28.4 ± 0.04128
p1 -3.095e-06 ± 1.142e-06
28.6
28.5
28.4
28.3
28.2
28.1
28
0
10000
20000
30000
40000
50000
60000


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

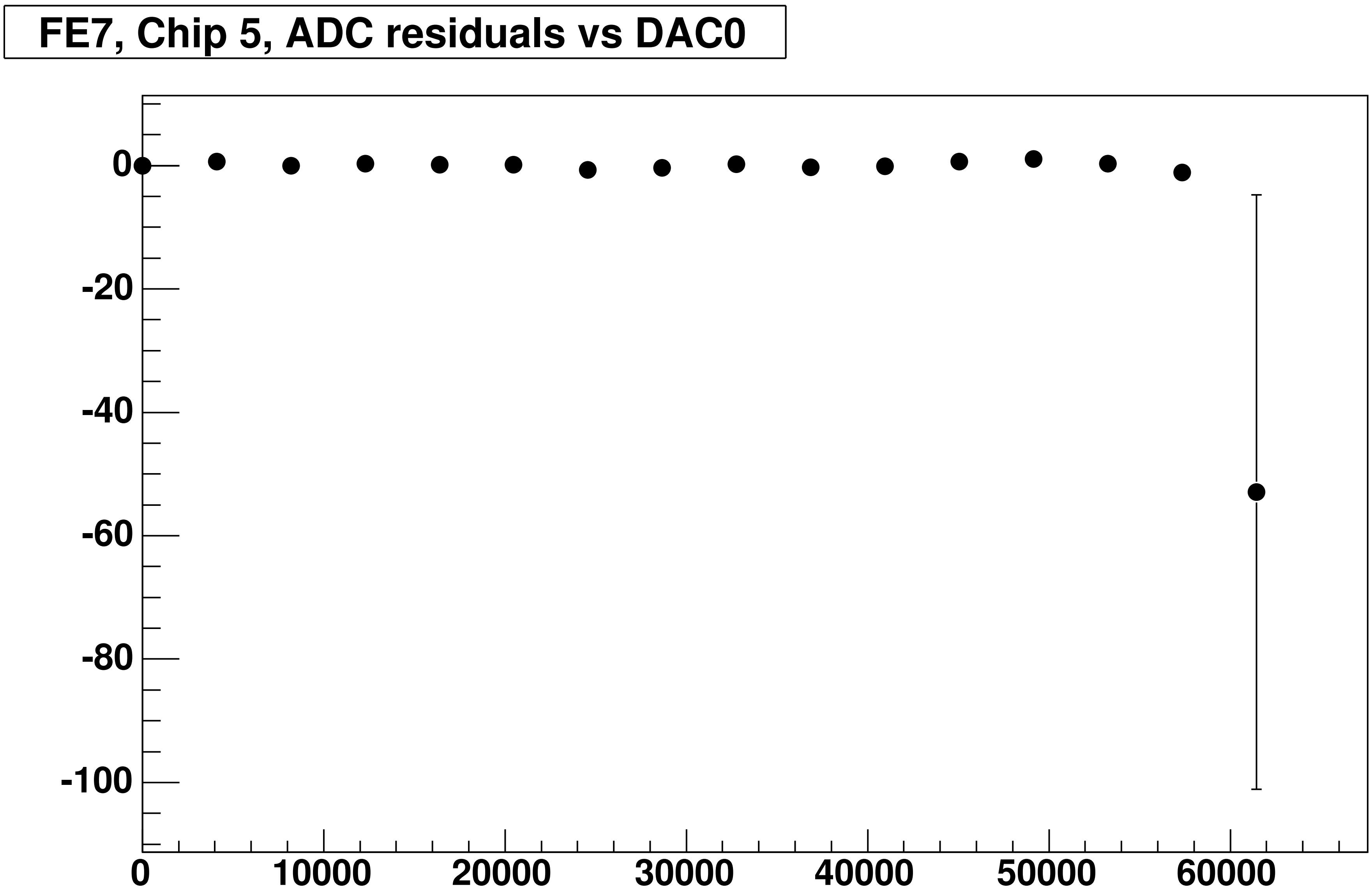

FE7, Chip 4, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

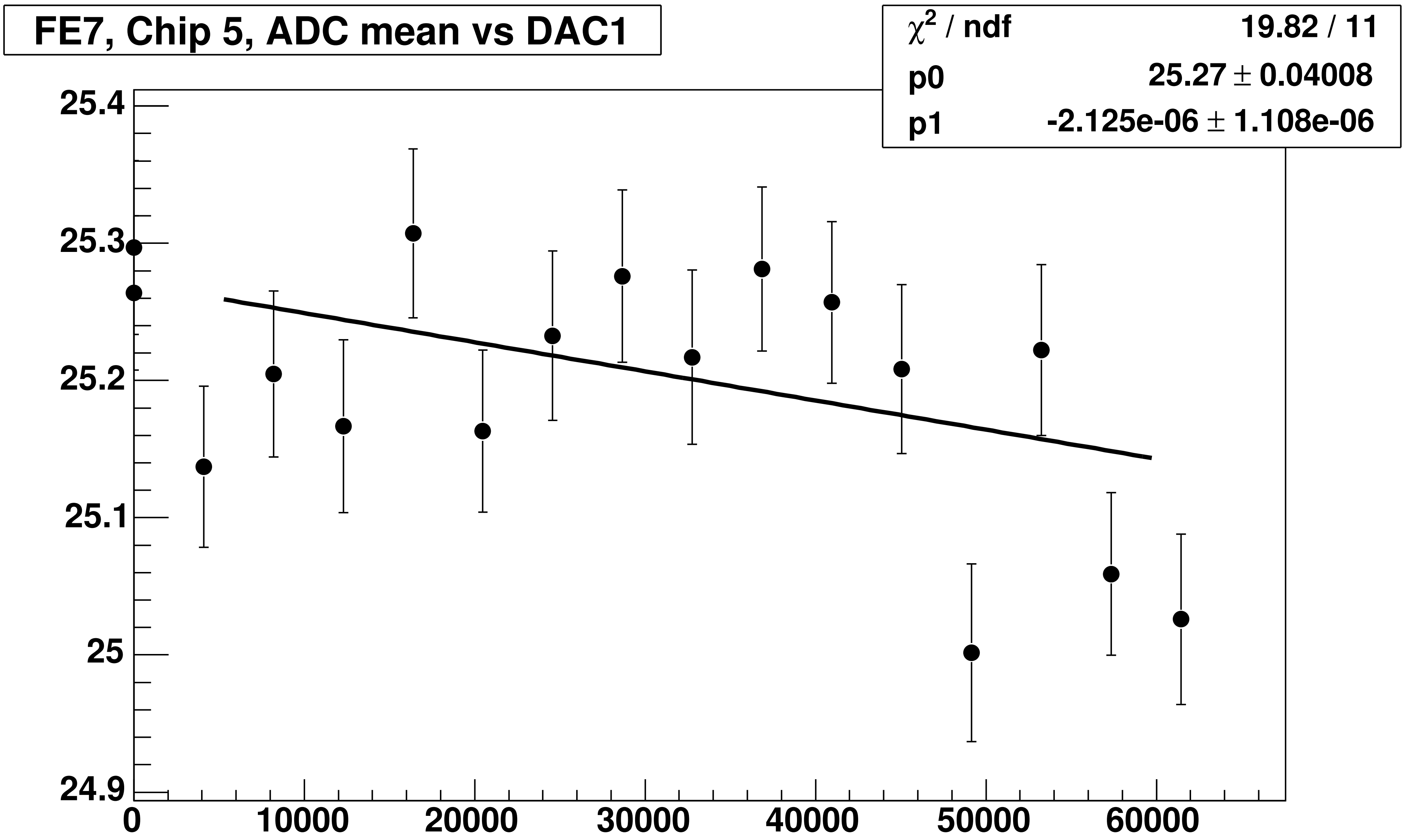


FE7, Chip 5, ADC mean vs DAC0
χ^2 / ndf 560.1 / 11
p0 24.93 ± 0.04185
p1 0.4512 ± 1.364e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

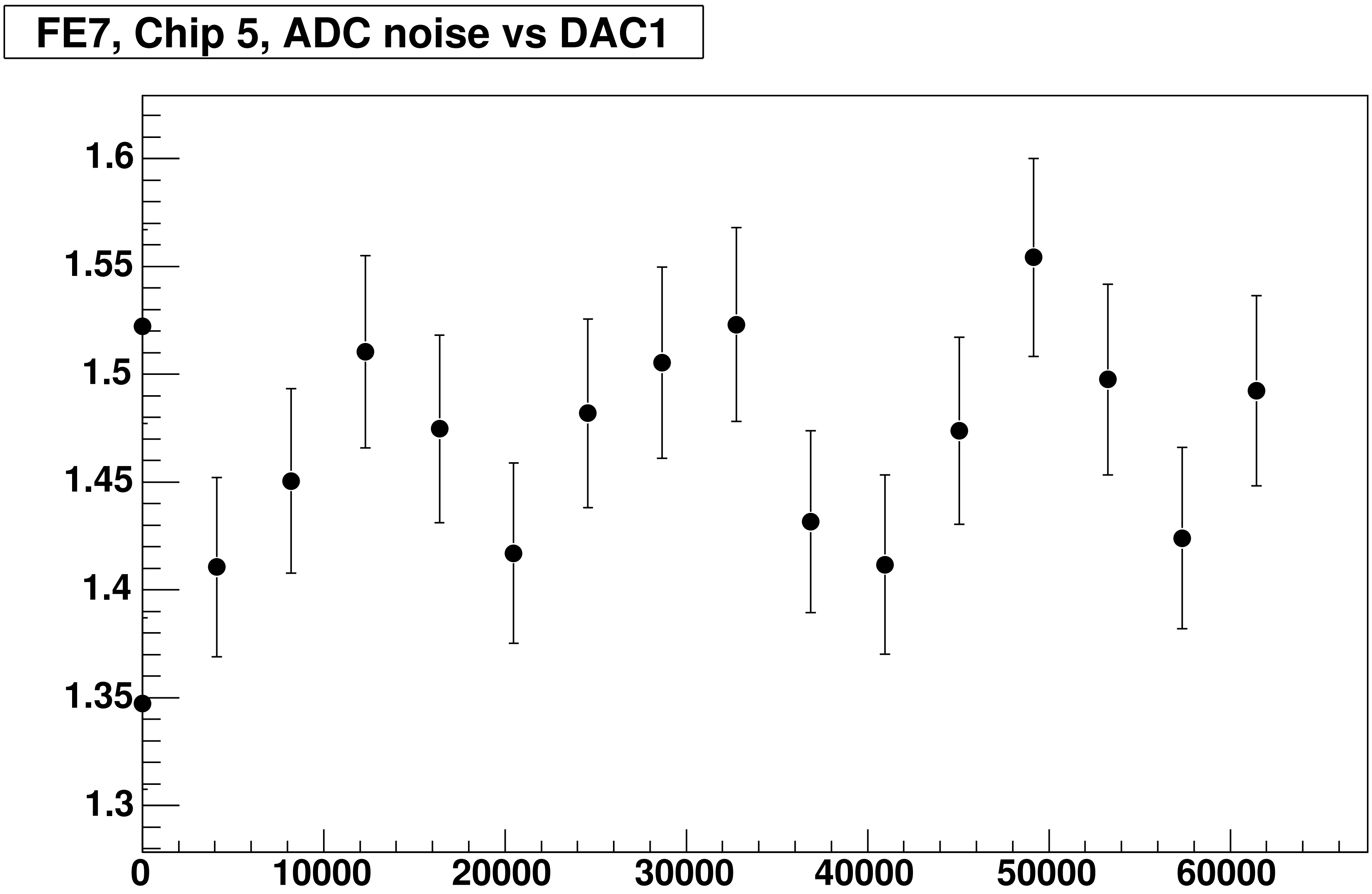


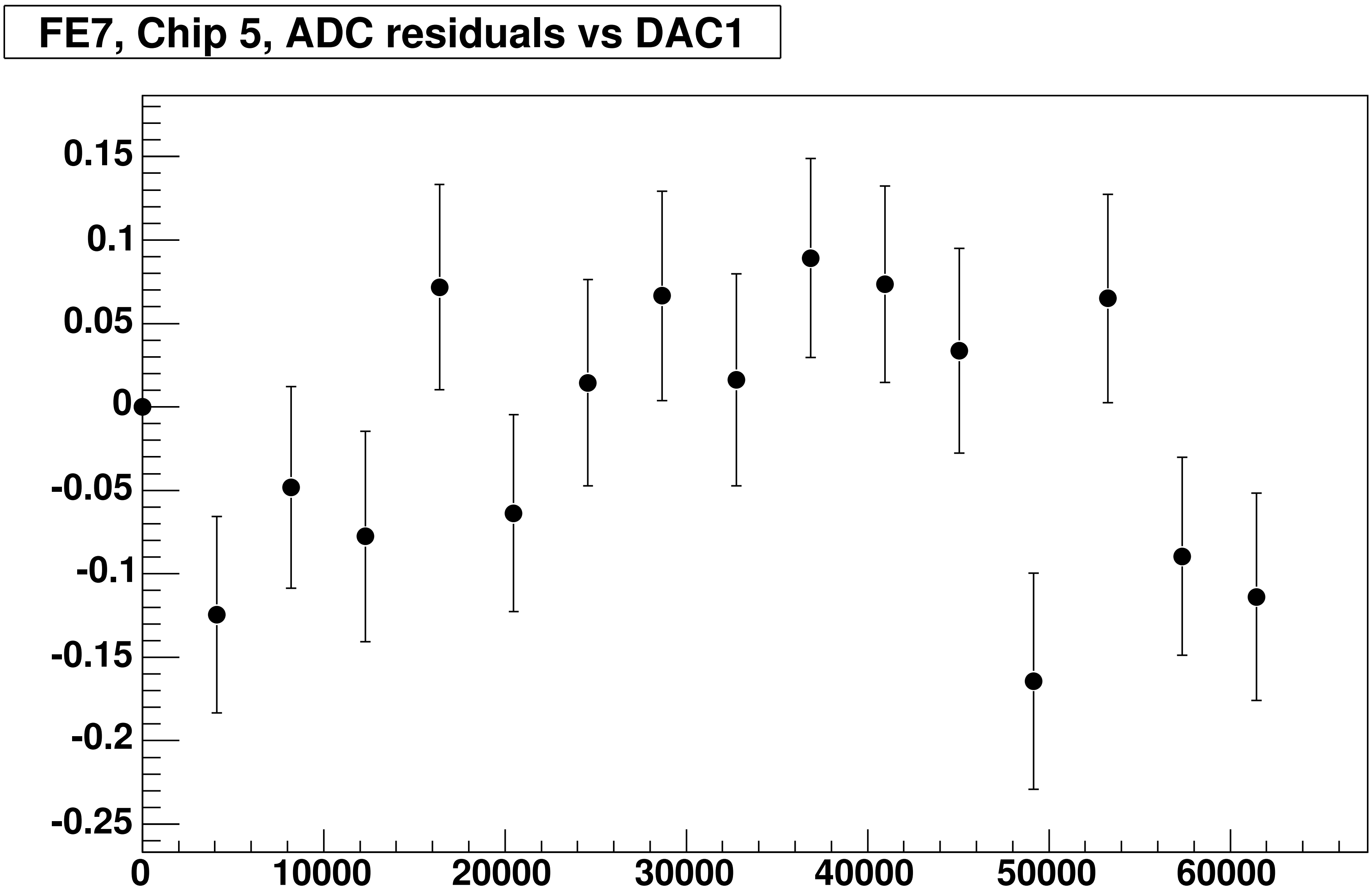
FE7, Chip 5, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000


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

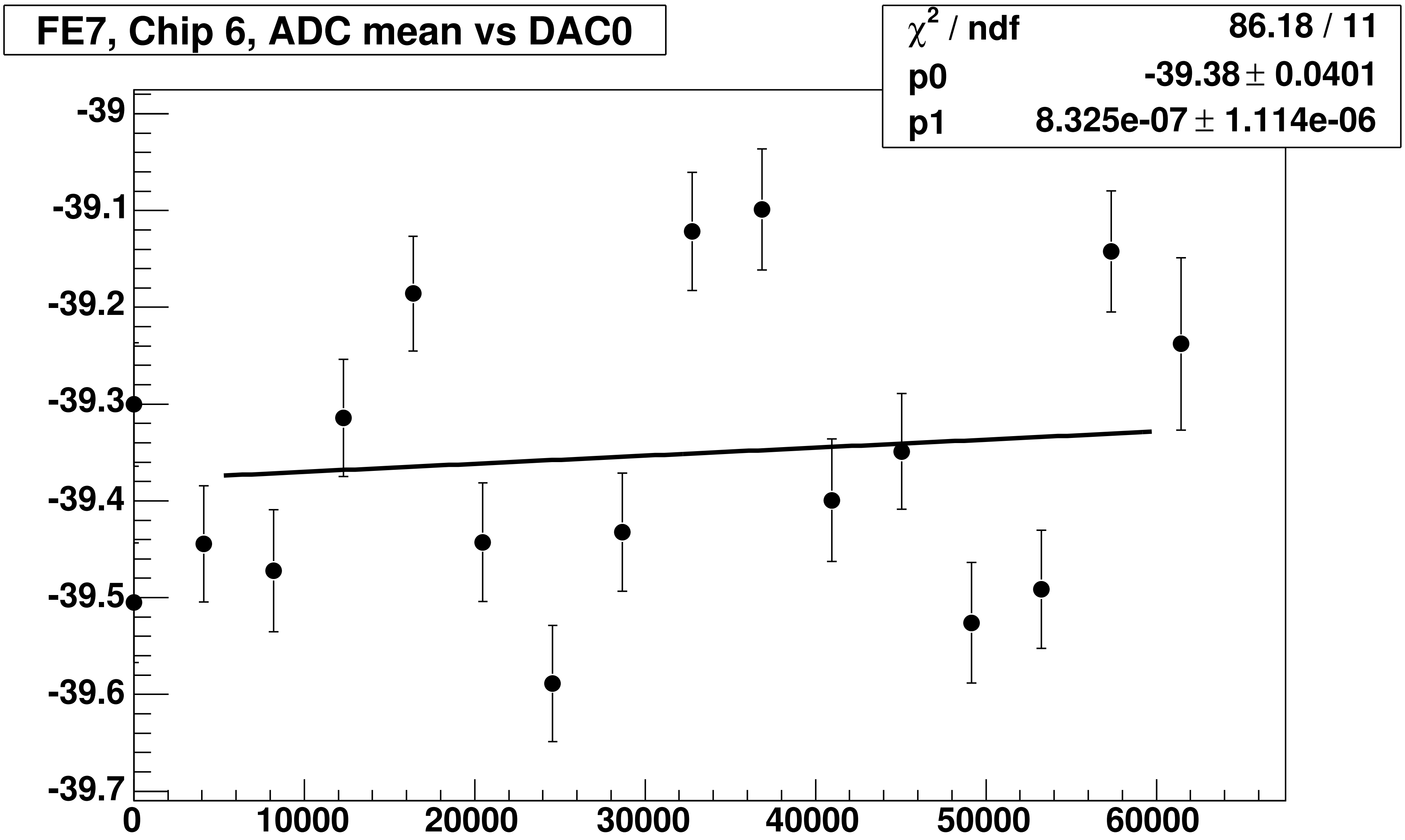


FE7, Chip 5, ADC mean vs DAC1
χ^2 / ndf 19.82 / 11
p0 25.27 ± 0.04008
p1 -2.125e-06 ± 1.108e-06
25.4
25.3
25.2
25.1
25
24.9
0
10000
20000
30000
40000
50000
60000

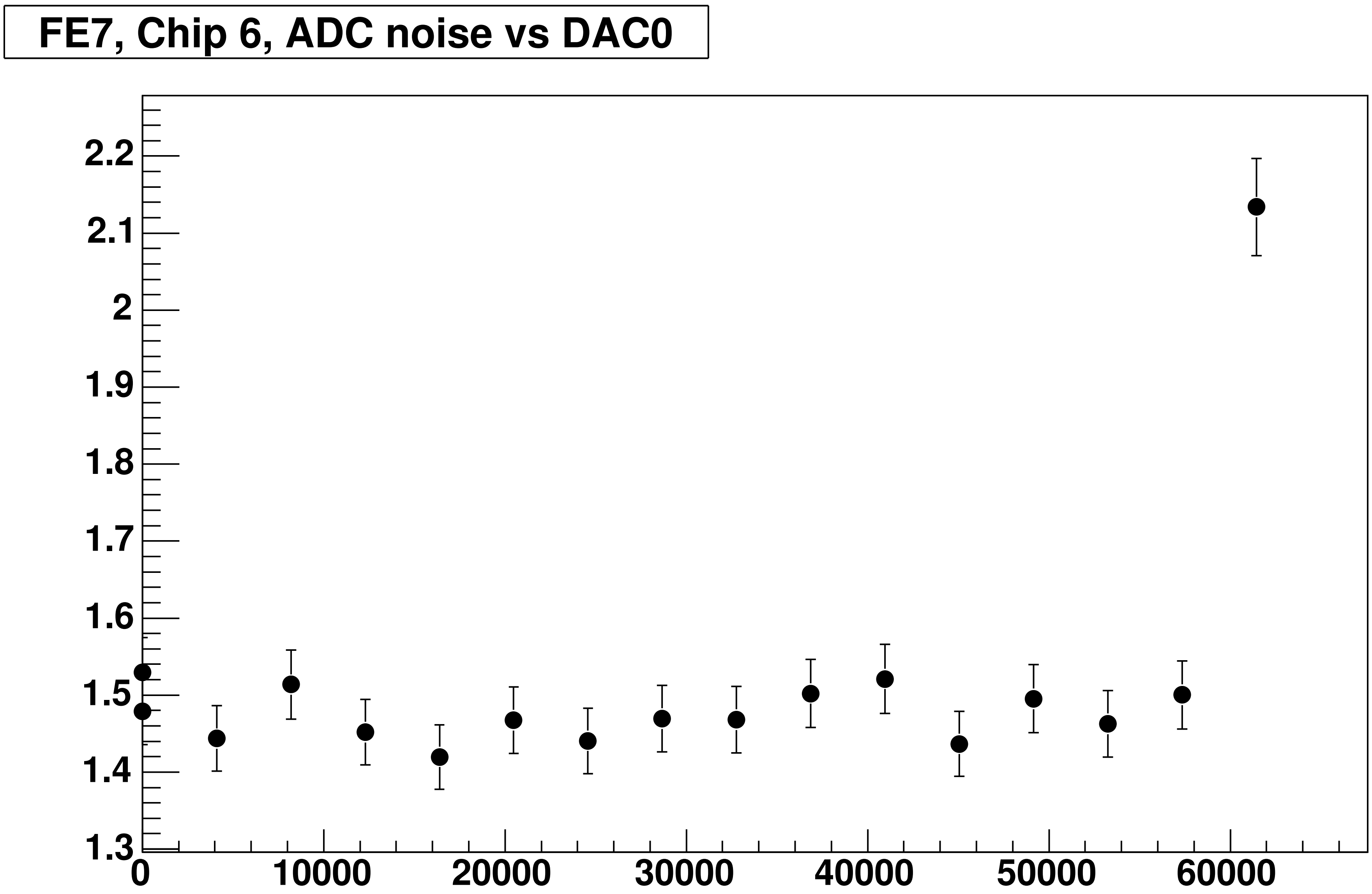

FE7, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

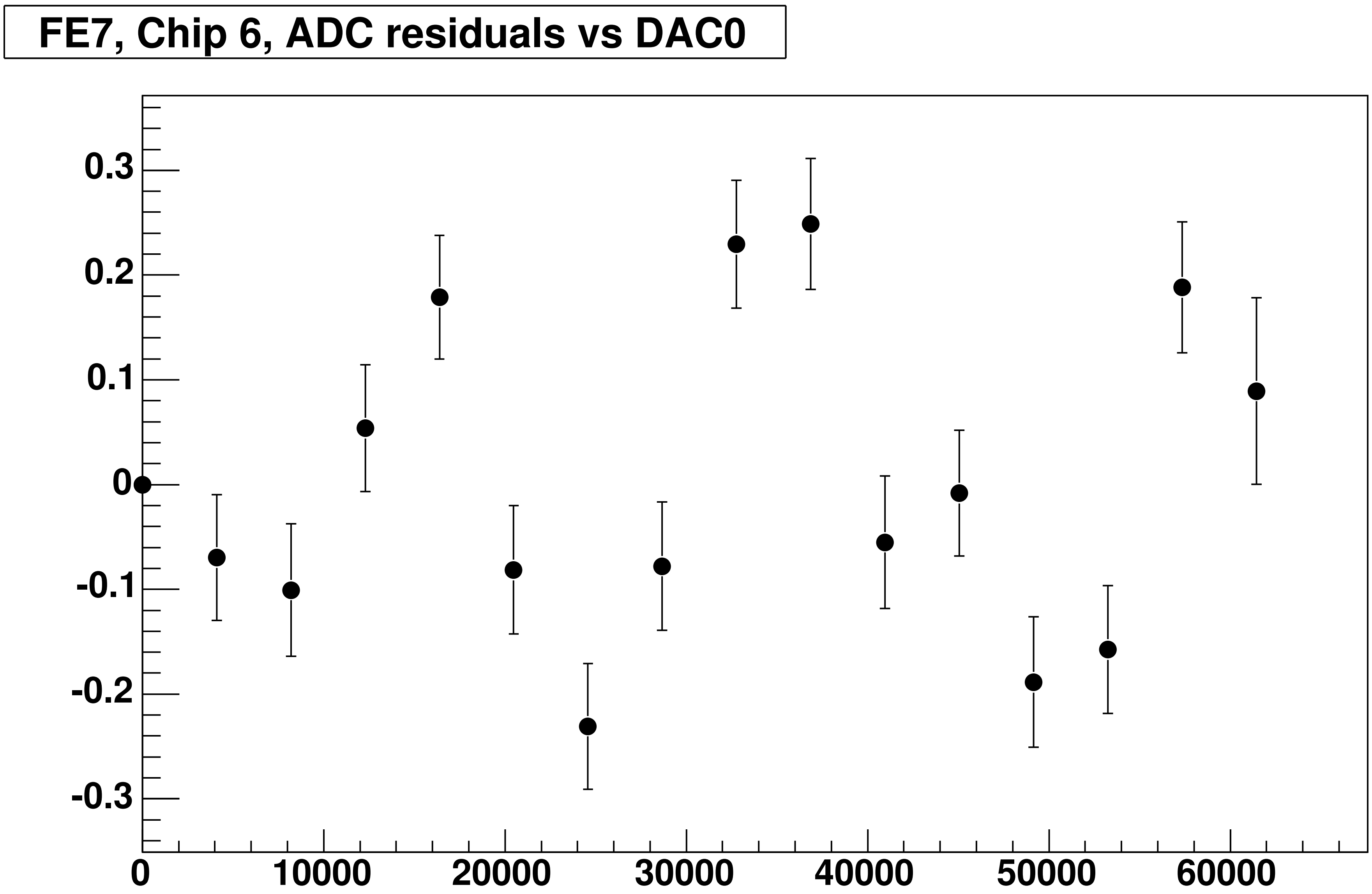


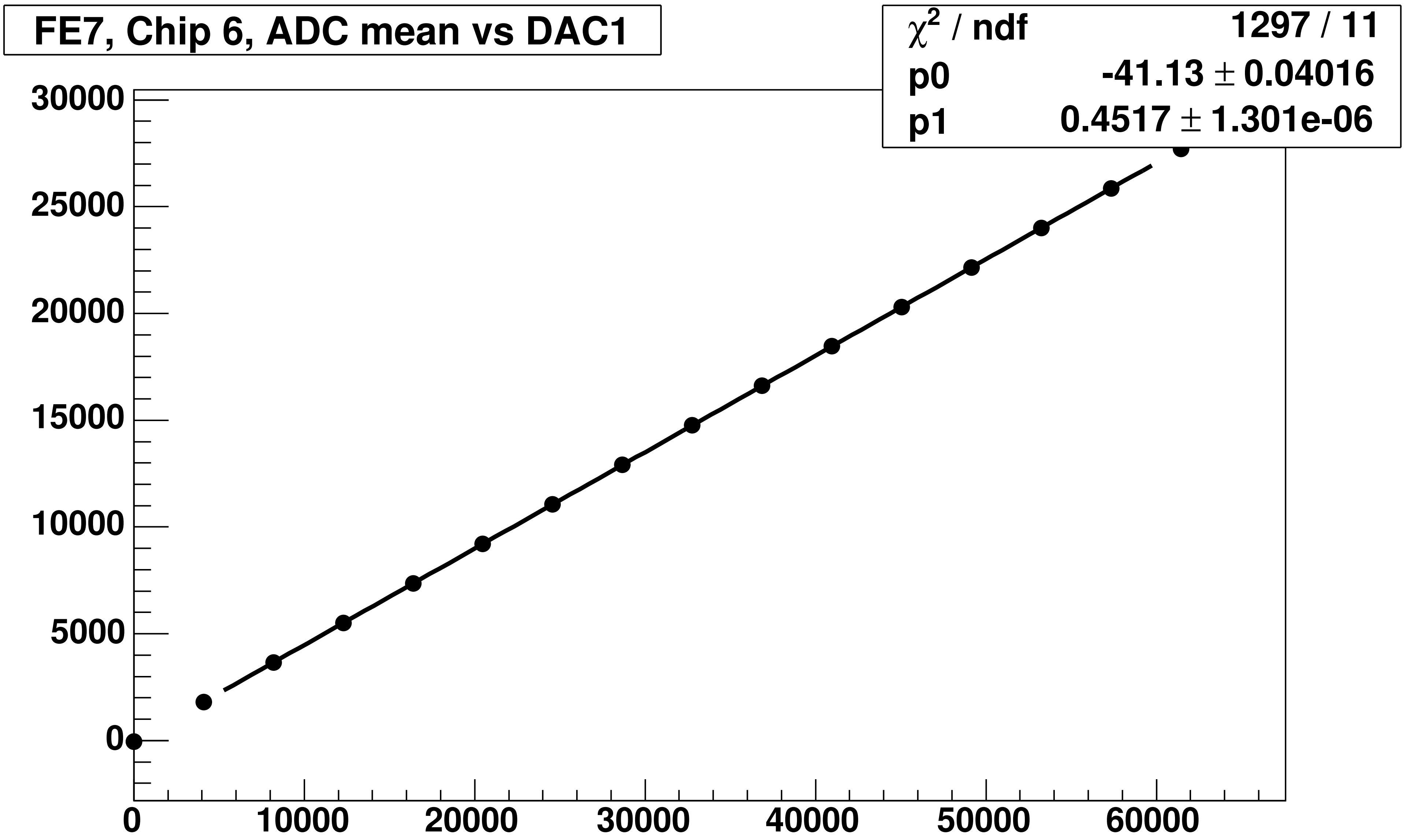
FE7, Chip 5, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000



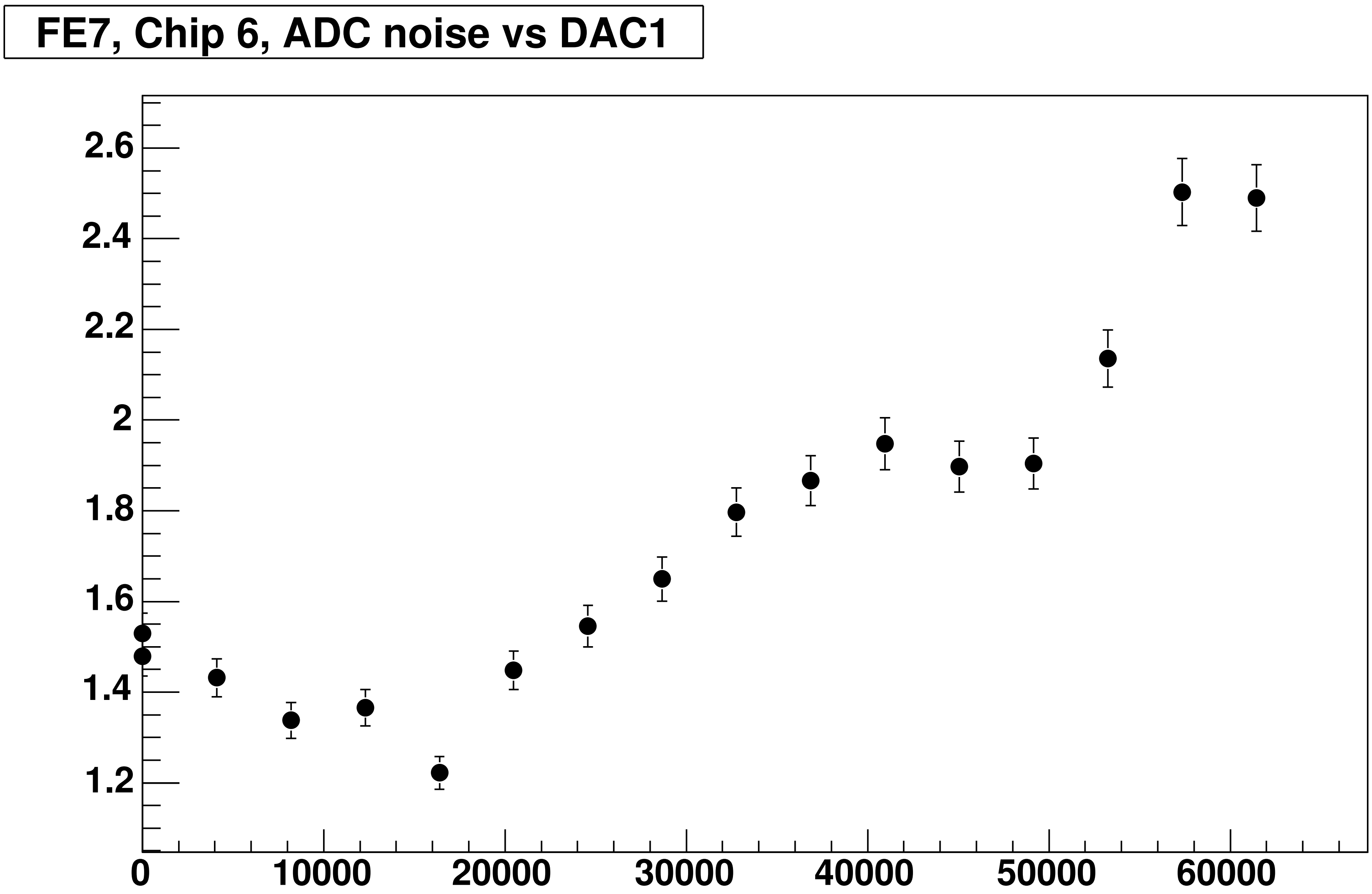
FE7, Chip 6, ADC mean vs DAC0
χ² / ndf 86.18 / 11
p0 -39.38 ± 0.0401
p1 8.325e-07 ± 1.114e-06
-39
-39.1
-39.2
-39.3
-39.4
-39.5
-39.6
-39.7
0
10000
20000
30000
40000
50000
60000

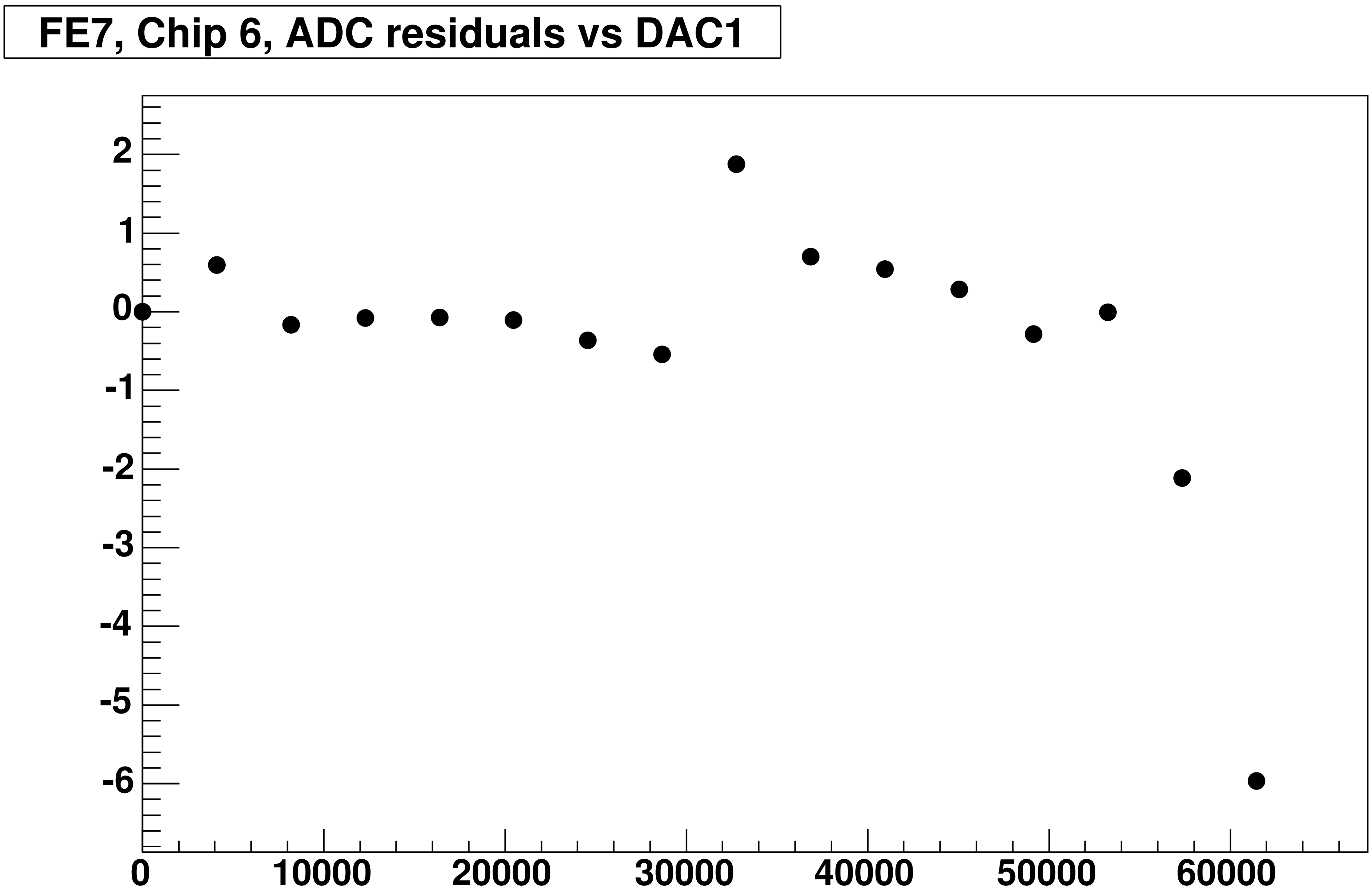

FE7, Chip 6, ADC noise vs DAC0
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000


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

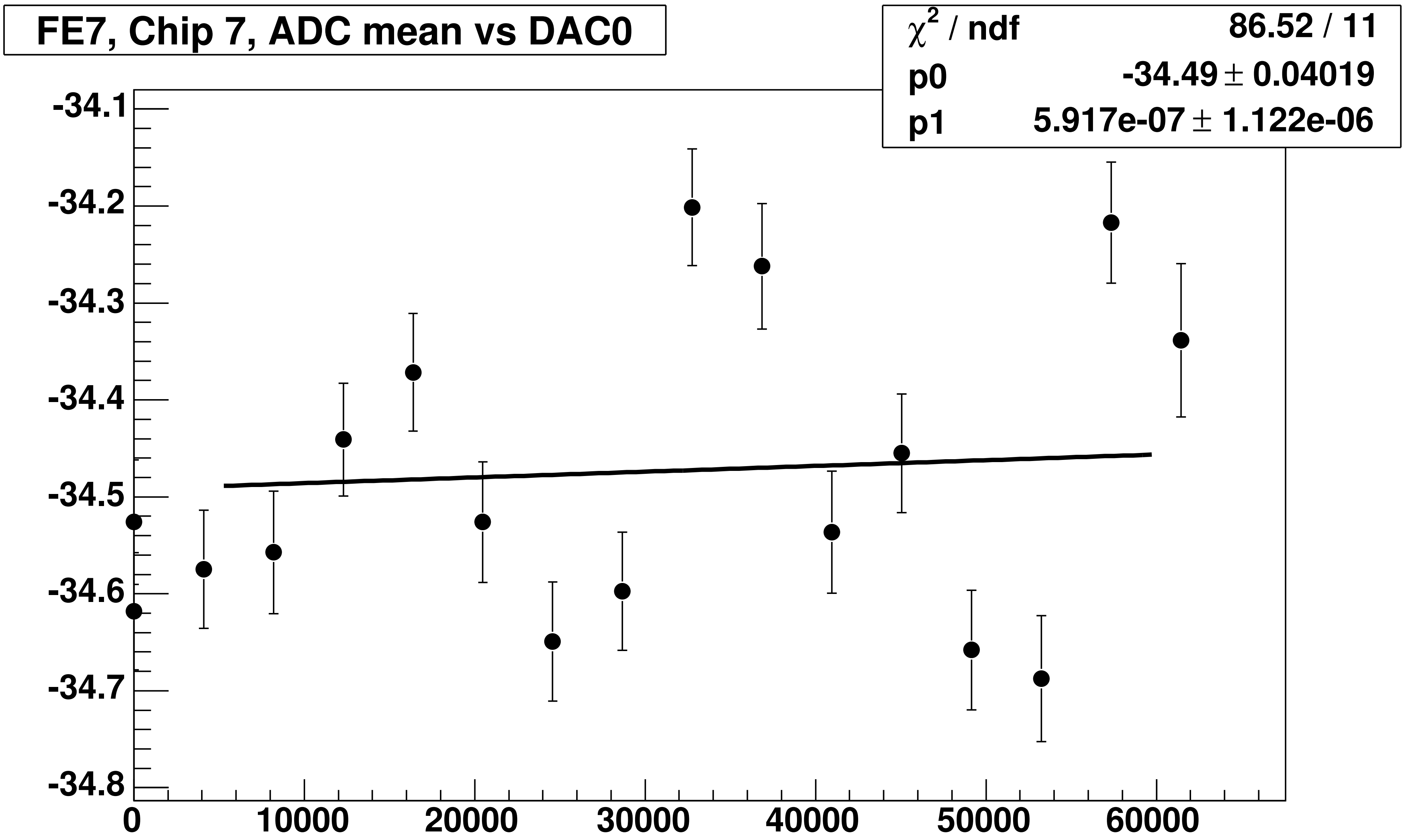


FE7, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1297 / 11
p0 -41.13 ± 0.04016
p1 0.4517 ± 1.301e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

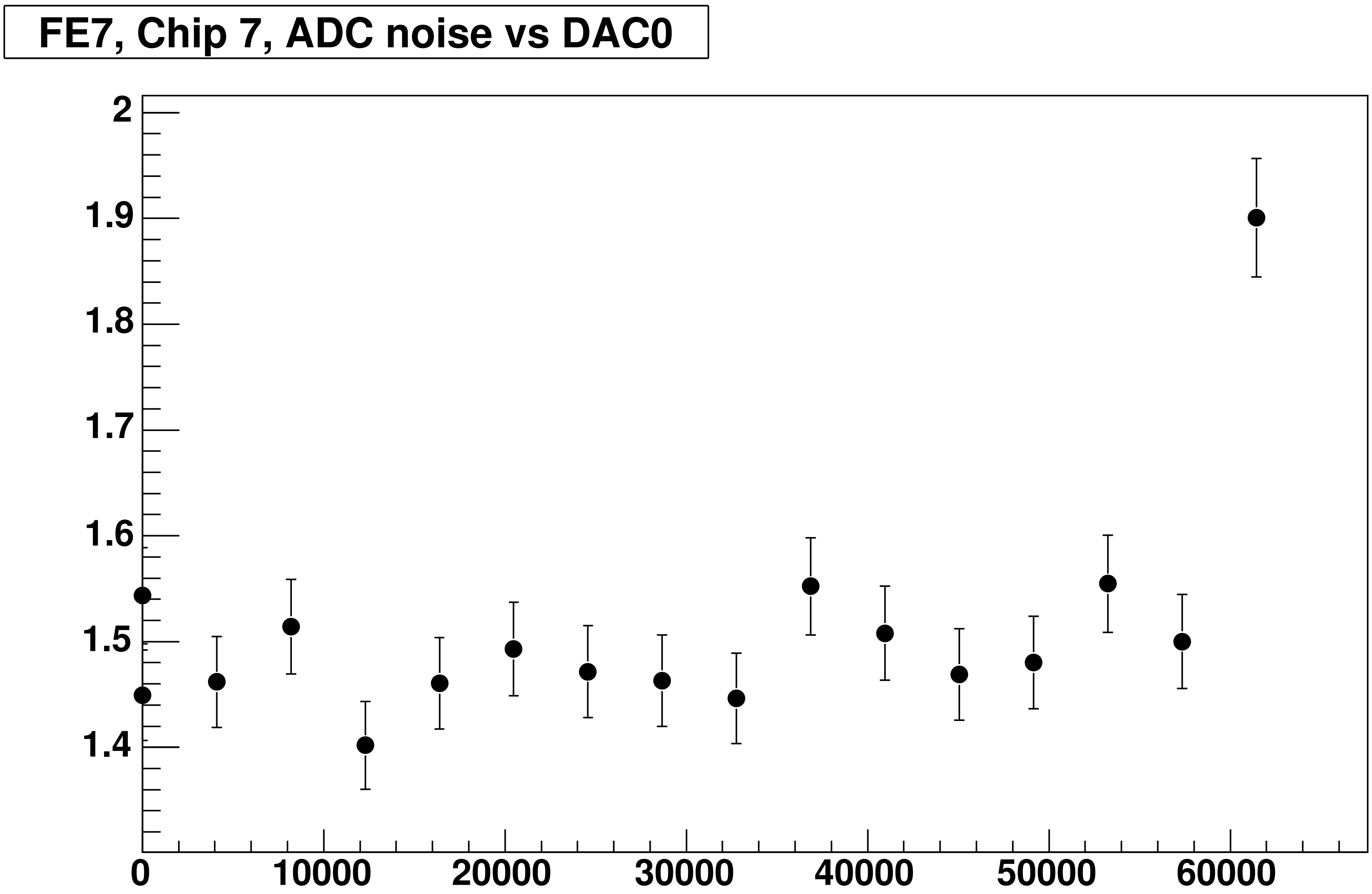

FE7, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

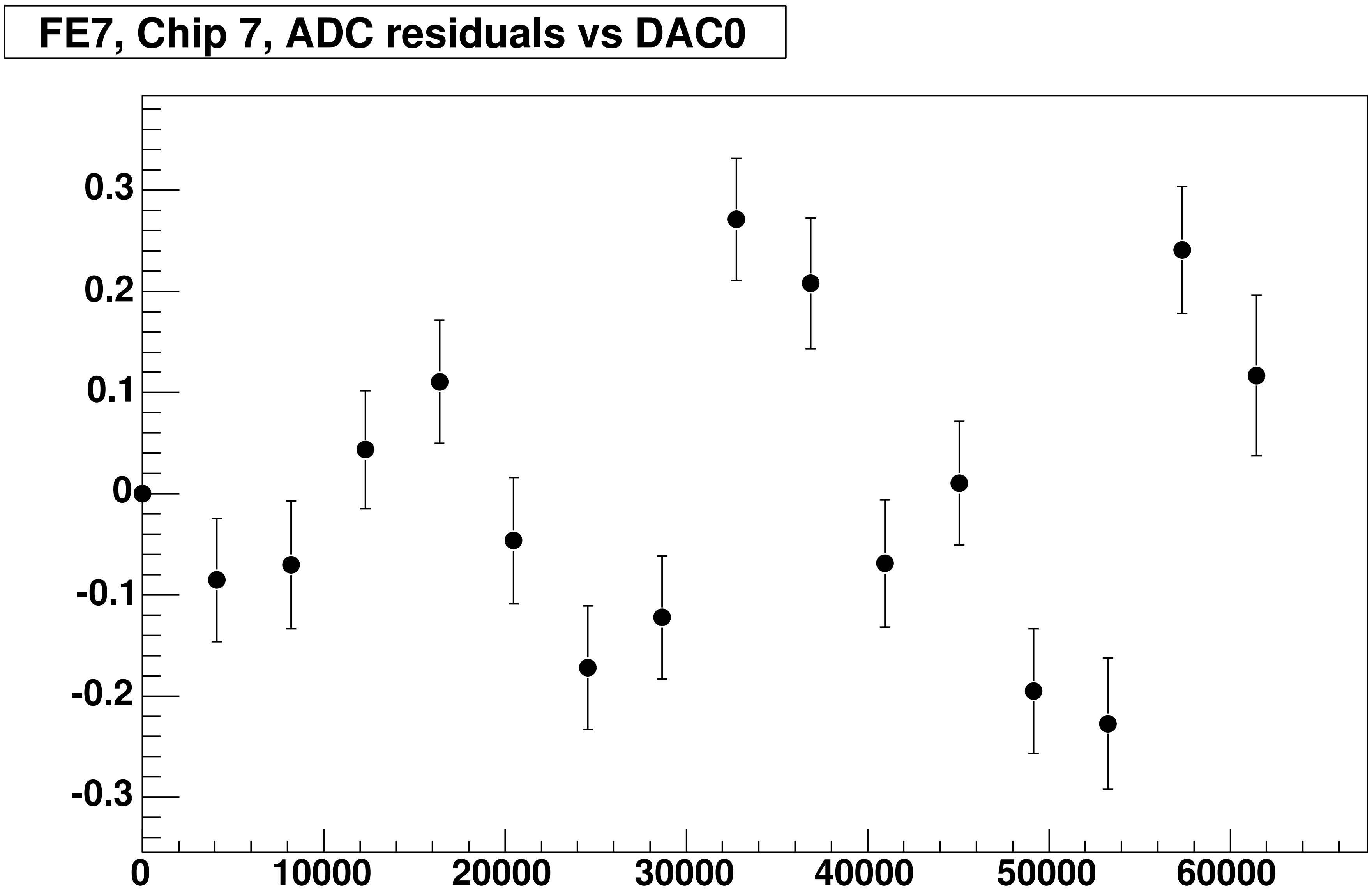


FE7, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

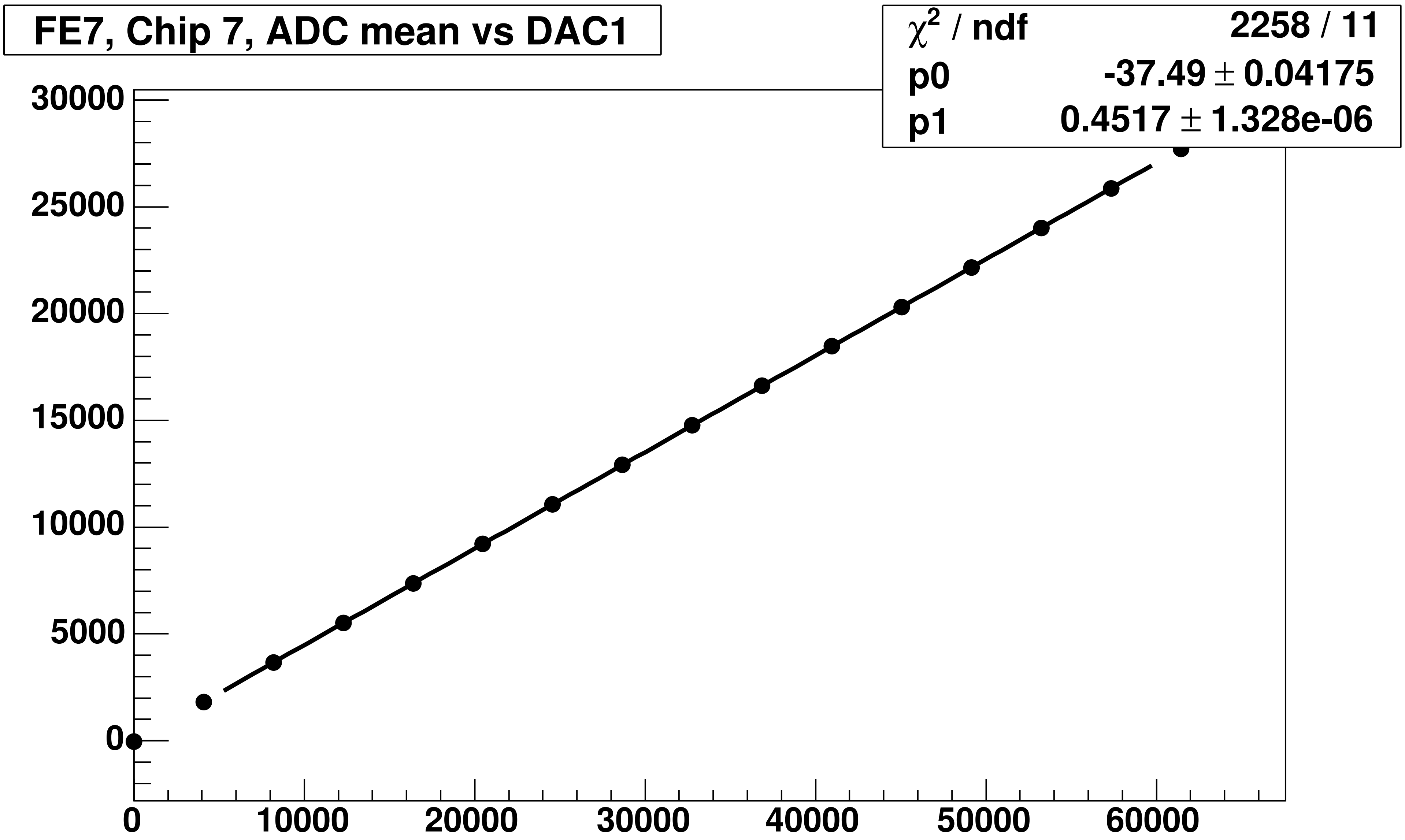


FE7, Chip 7, ADC mean vs DAC0
χ^2 / ndf 86.52 / 11
p0 -34.49 ± 0.04019
p1 5.917e-07 ± 1.122e-06
-34.1
-34.2
-34.3
-34.4
-34.5
-34.6
-34.7
-34.8
0
10000
20000
30000
40000
50000
60000

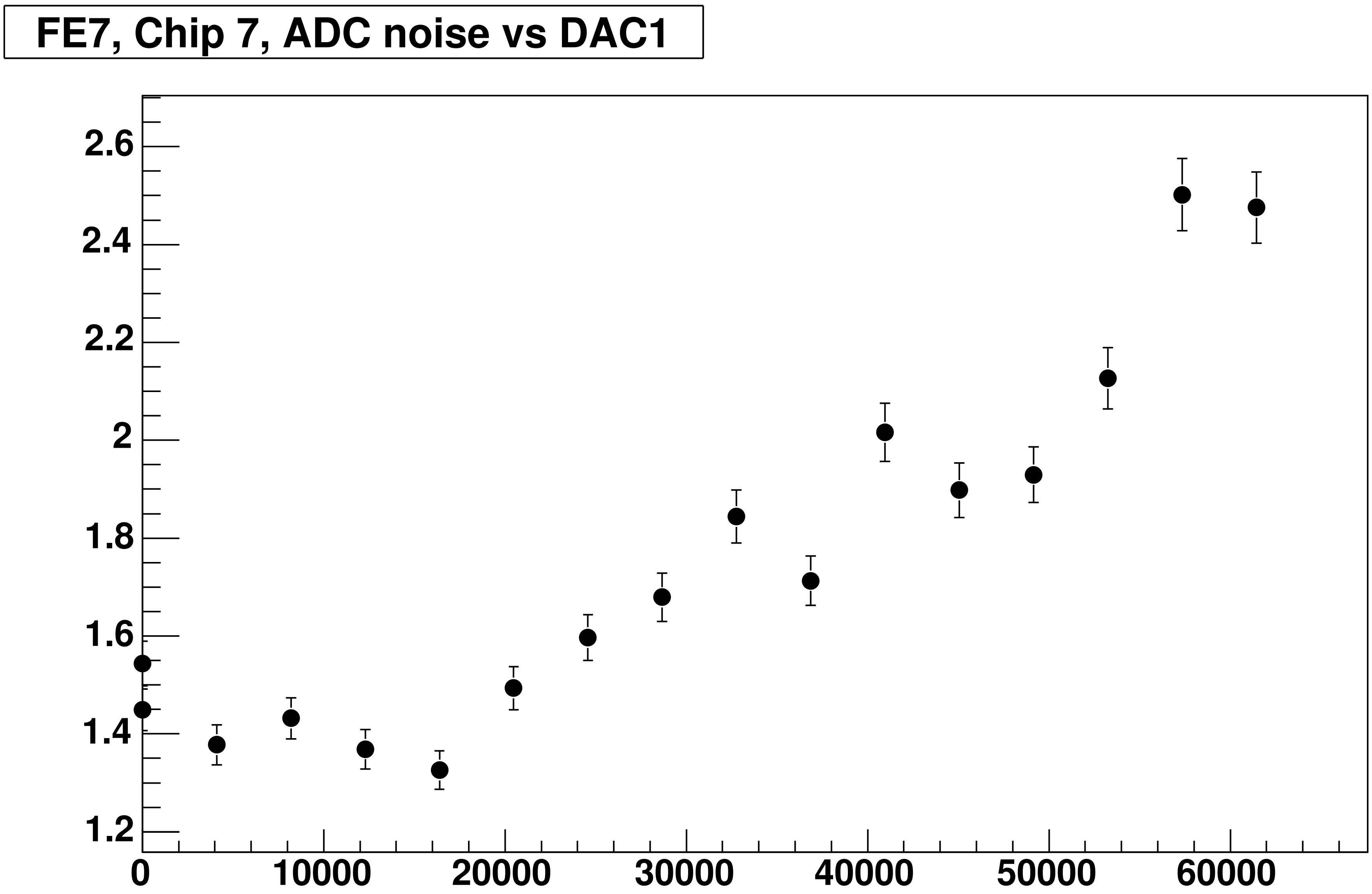

FE7, Chip 7, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000



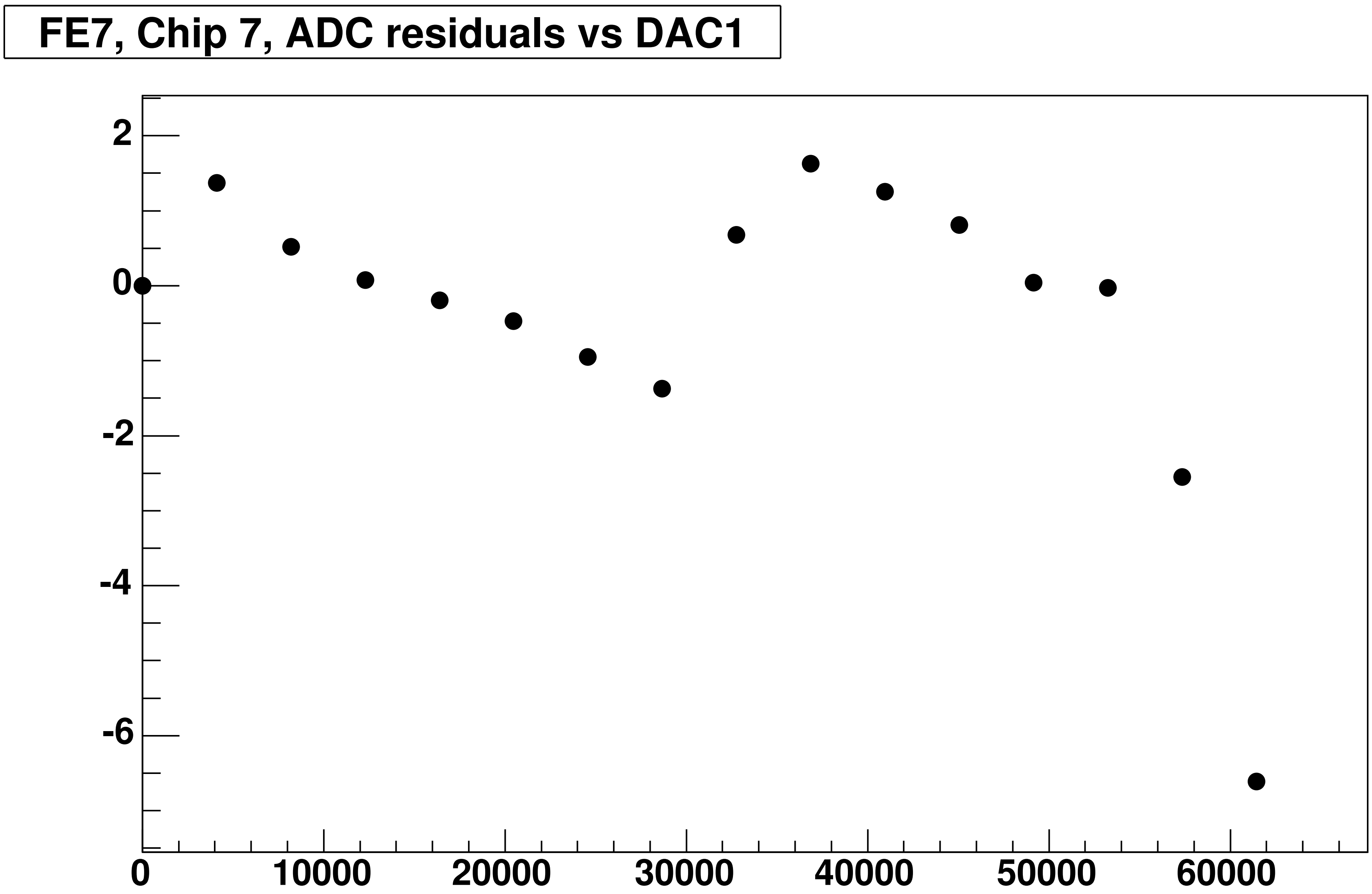
FE7, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

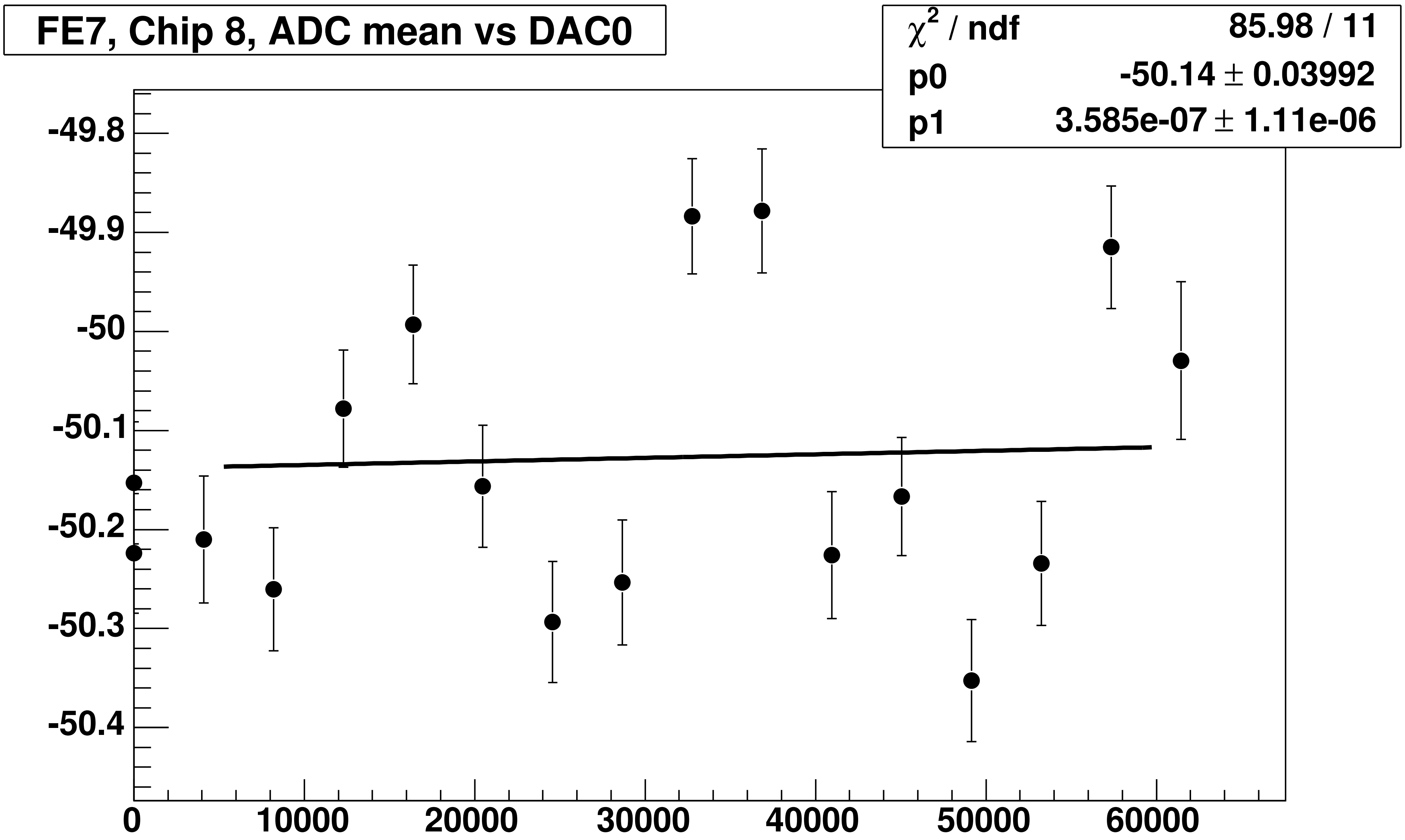


FE7, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2258 / 11
p0 -37.49 ± 0.04175
p1 0.4517 ± 1.328e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

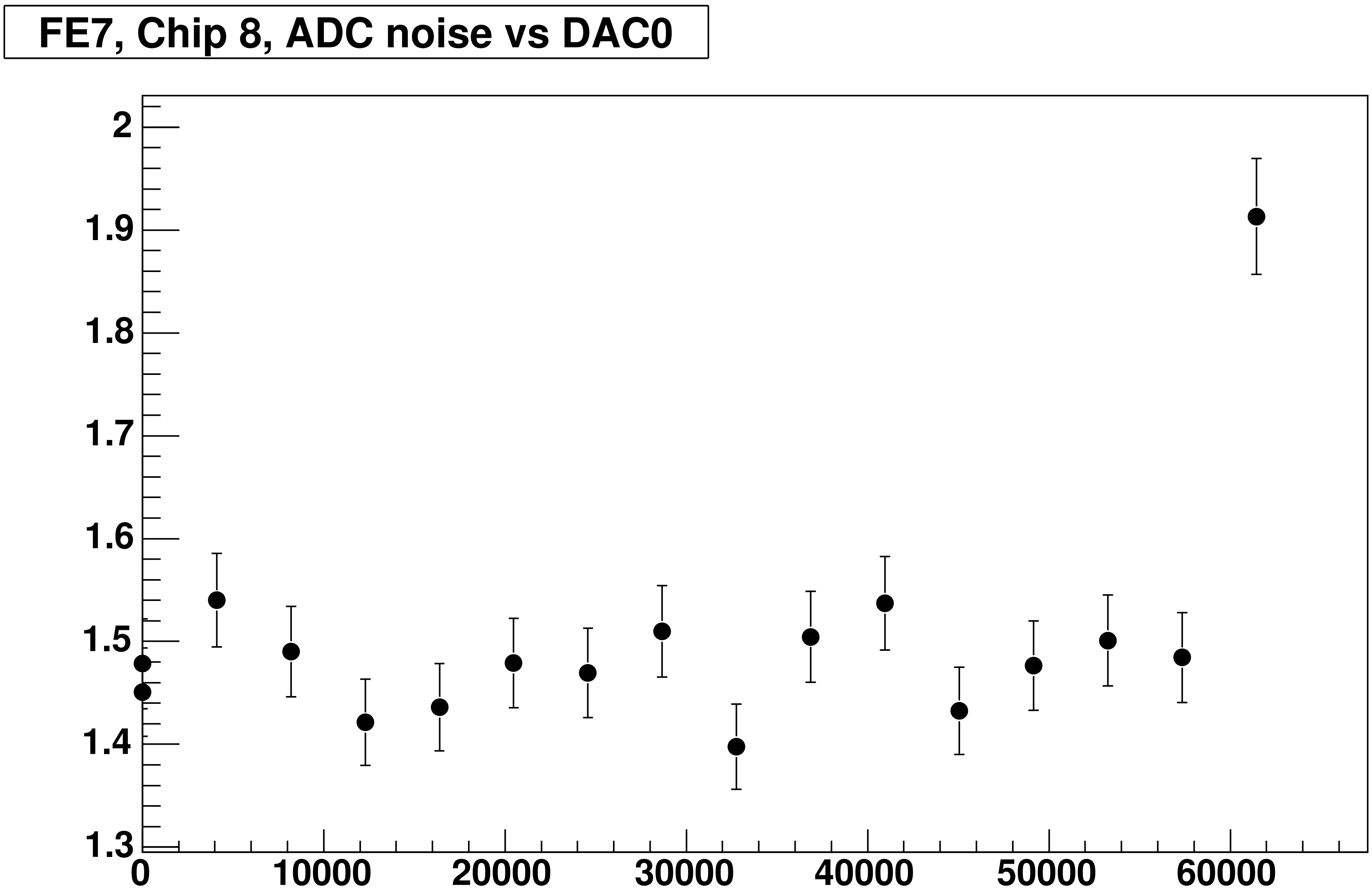


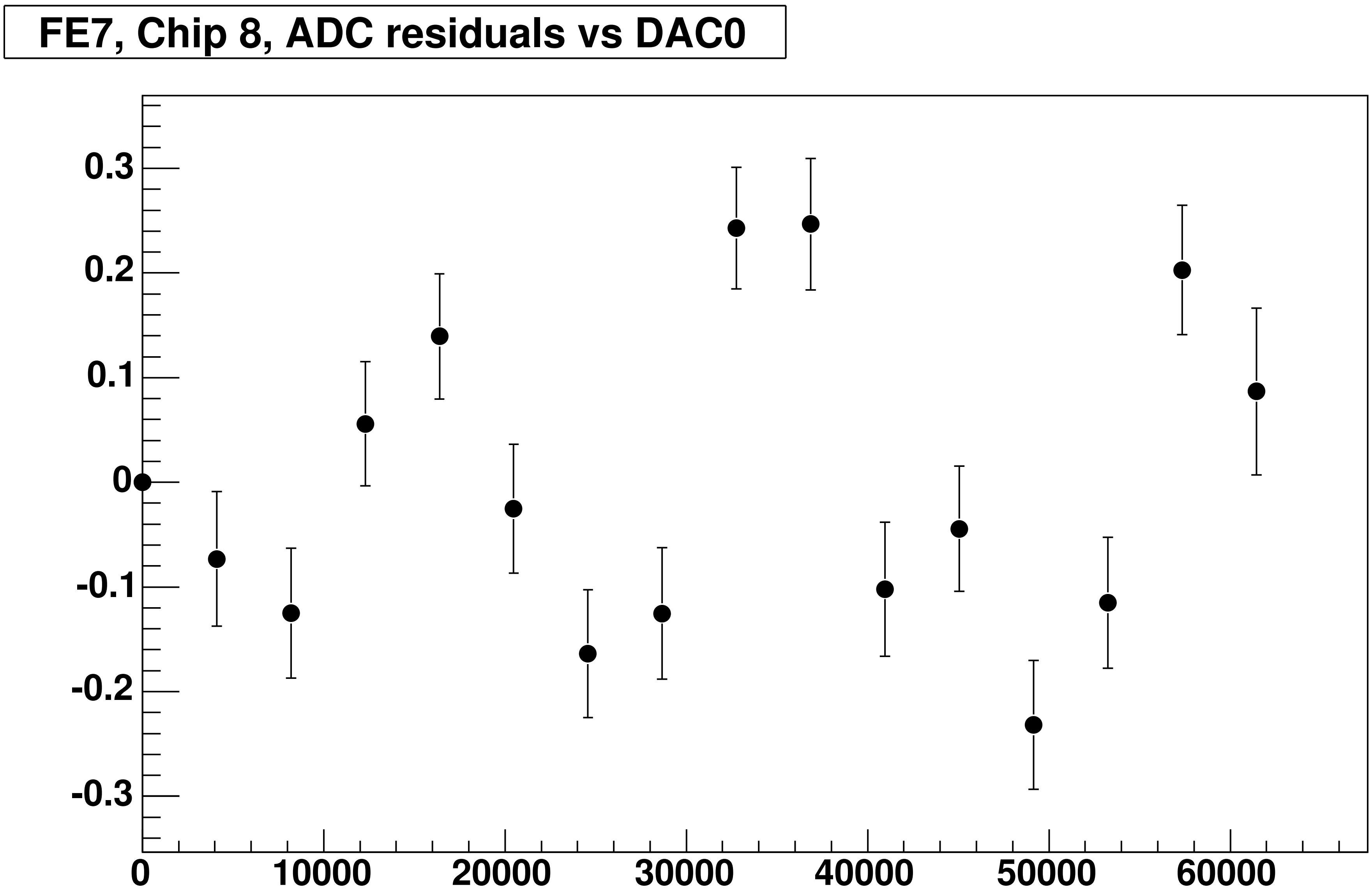
FE7, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

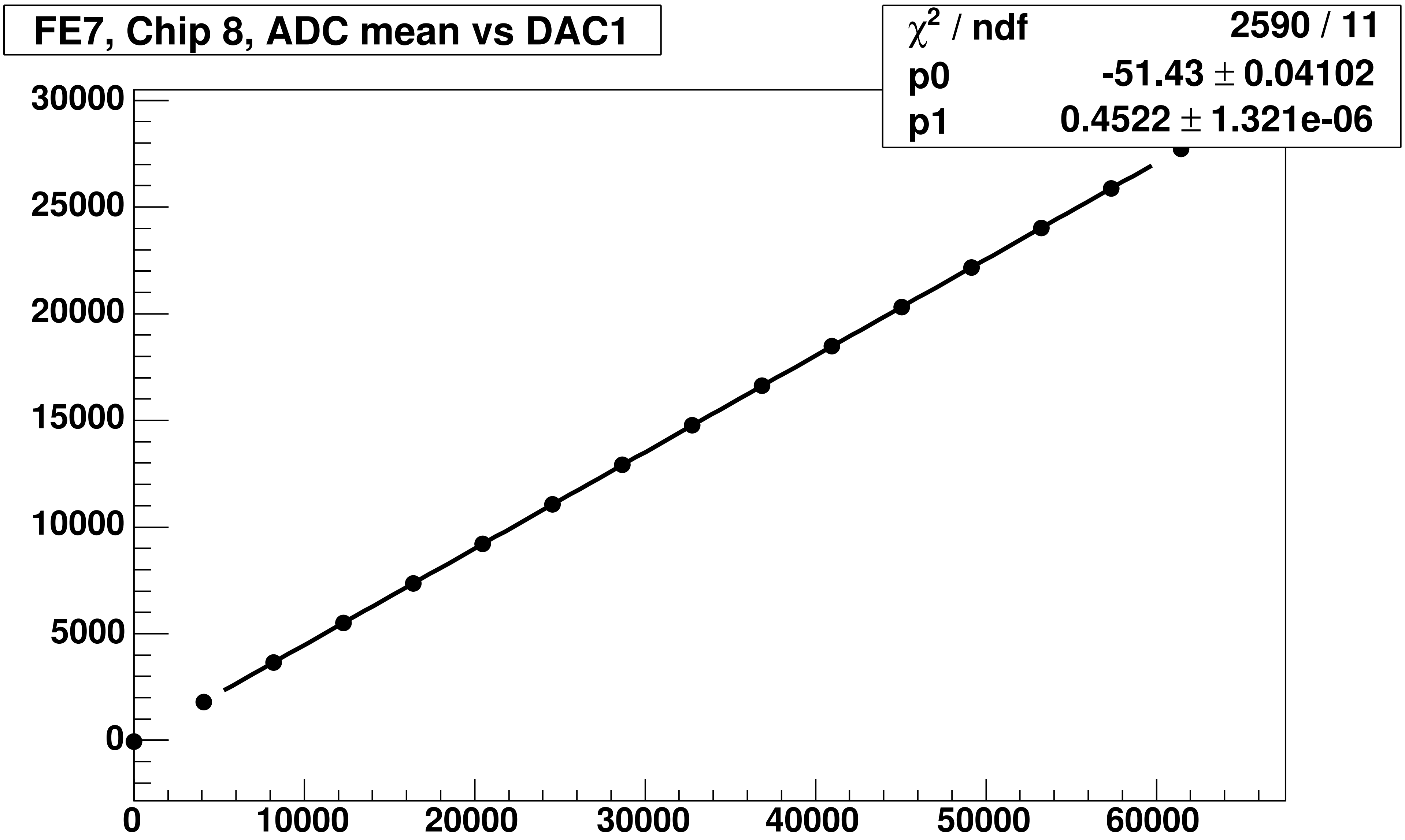

FE7, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

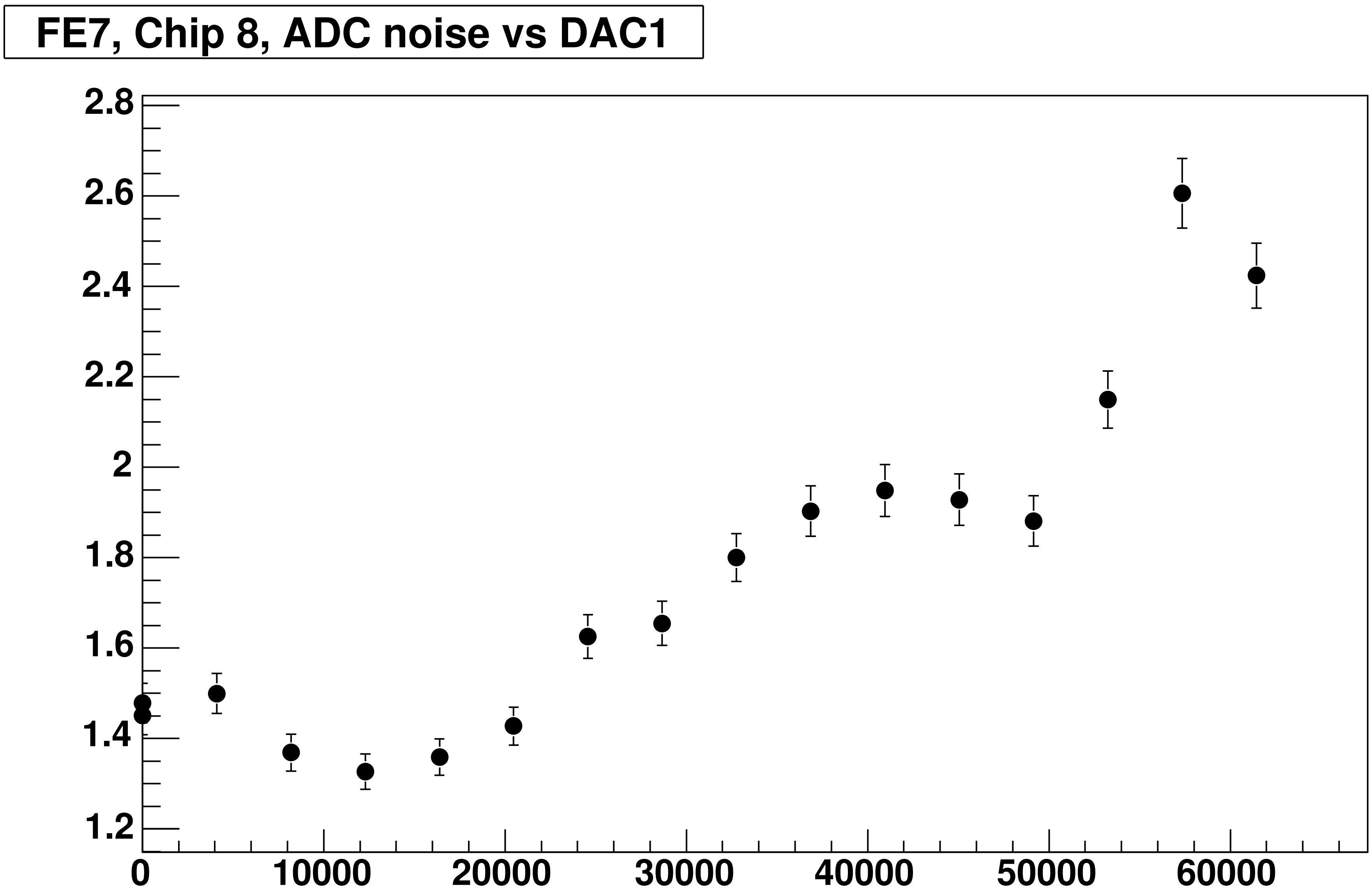


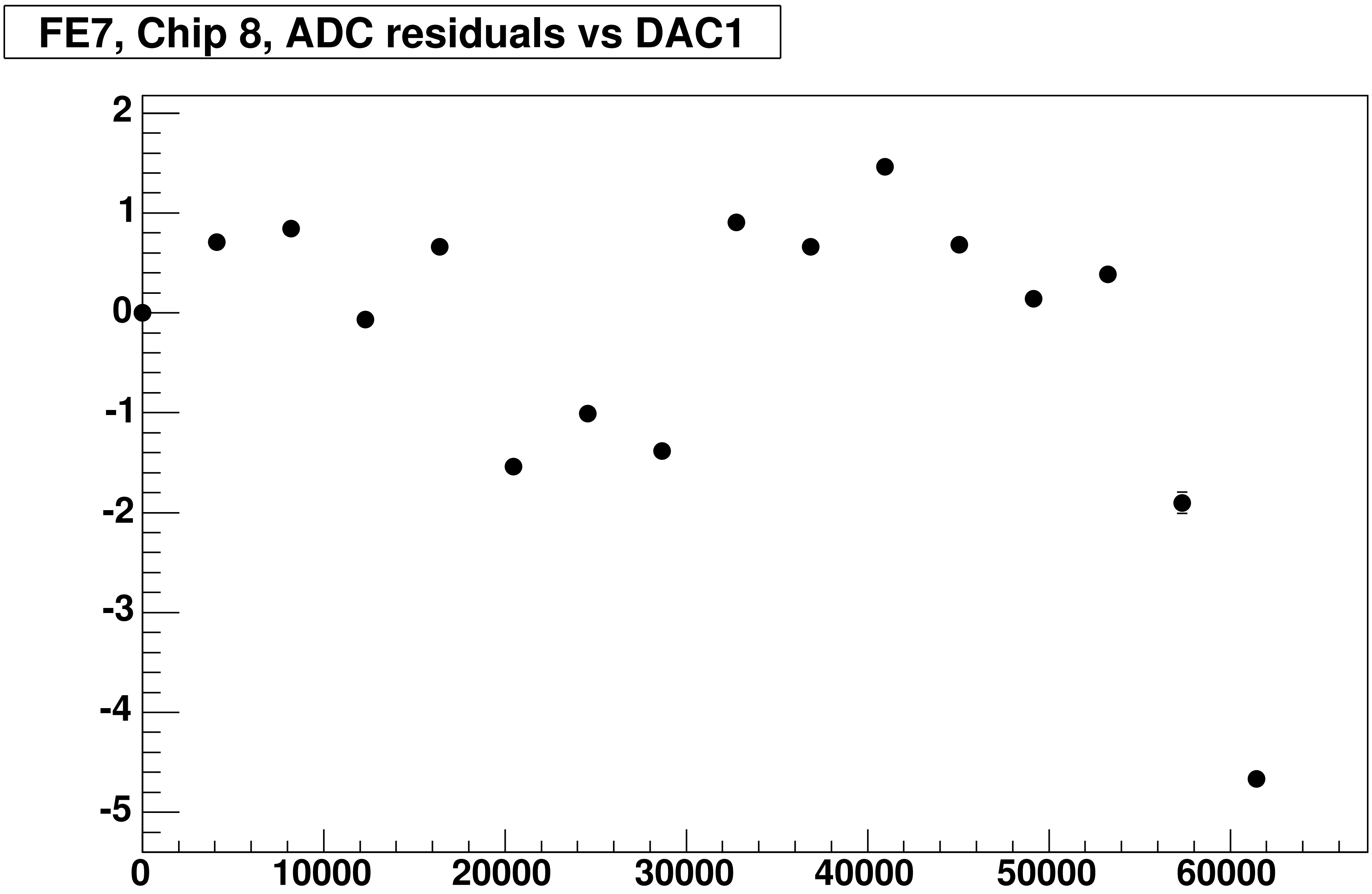
FE7, Chip 8, ADC mean vs DAC0
χ^2 / ndf 85.98 / 11
p0 -50.14 ± 0.03992
p1 3.585e-07 ± 1.11e-06
-49.8
-49.9
-50
-50.1
-50.2
-50.3
-50.4
0
10000
20000
30000
40000
50000
60000


FE7, Chip 8, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

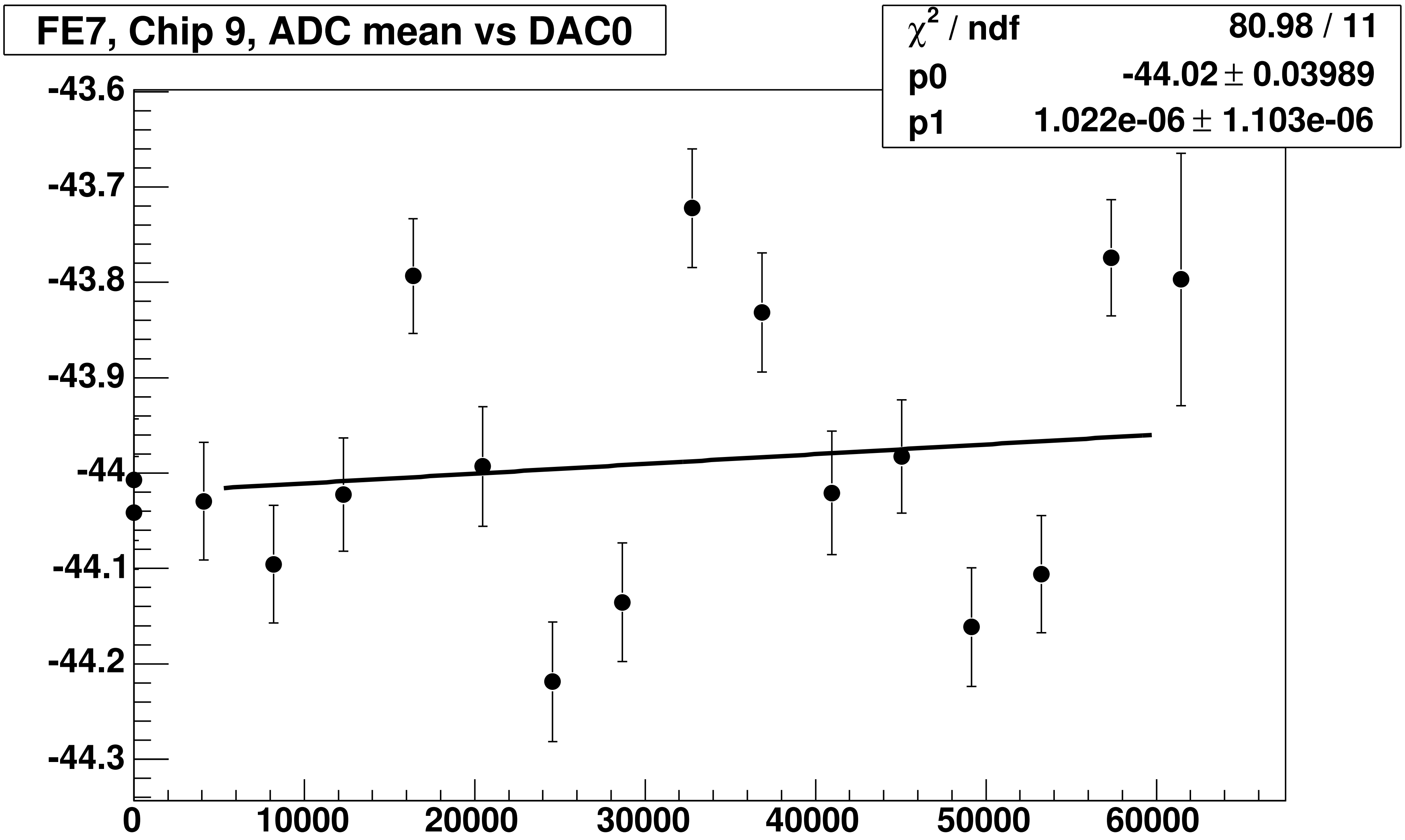

FE7, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

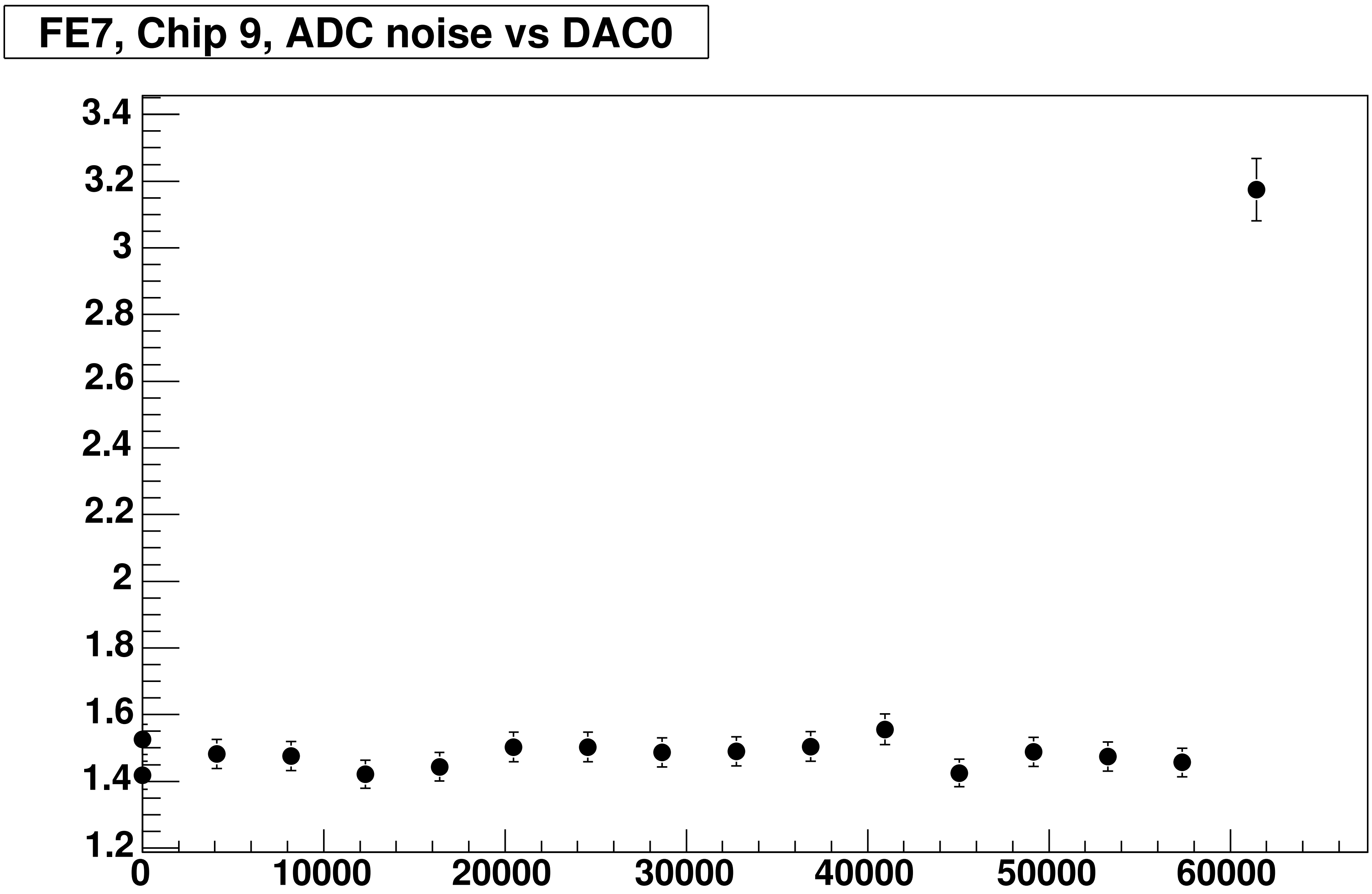

FE7, Chip 8, ADC mean vs DAC1
χ2 / ndf 2590 / 11
p0 -51.43 ± 0.04102
p1 0.4522 ± 1.321e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

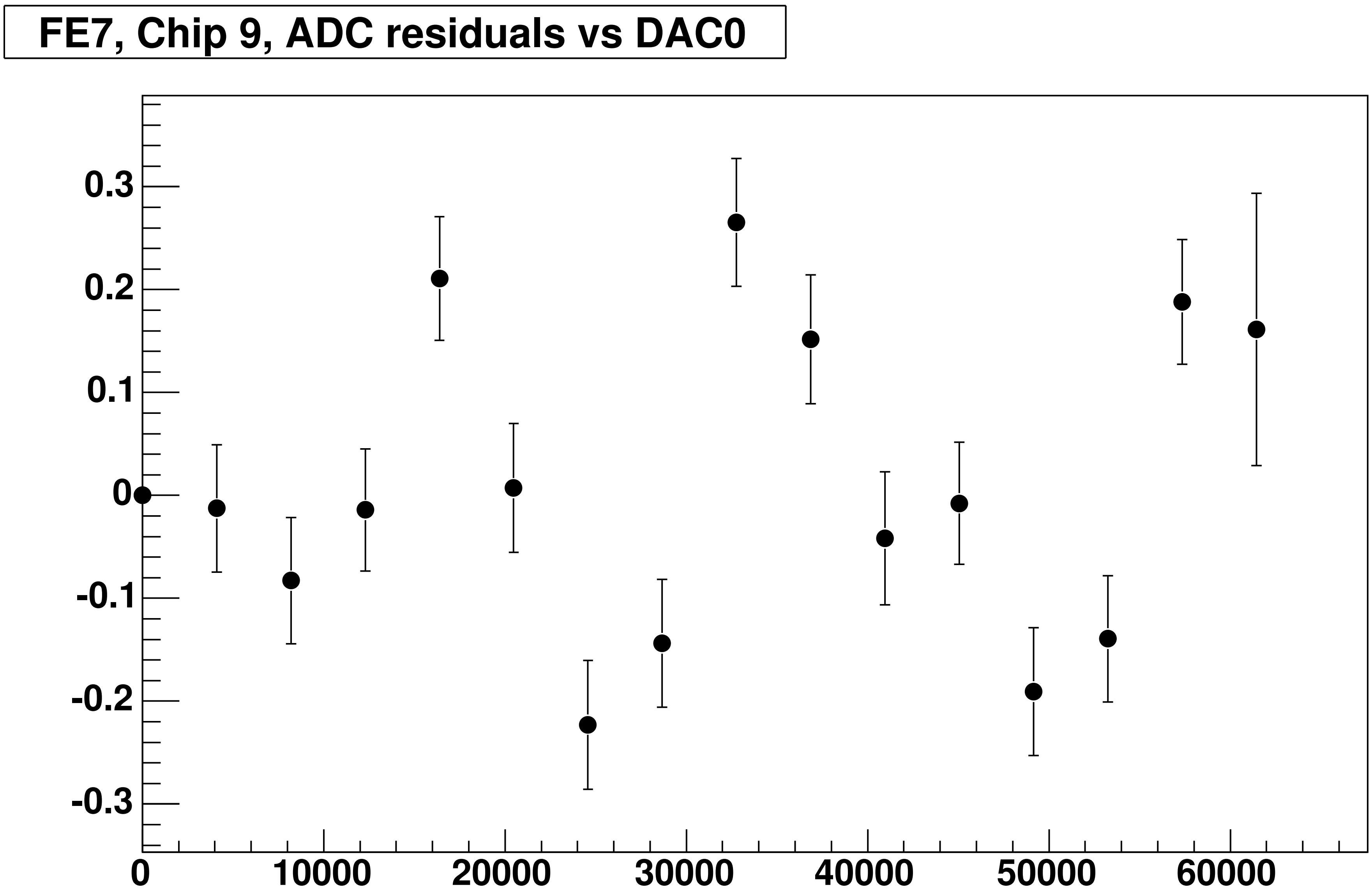

FE7, Chip 8, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



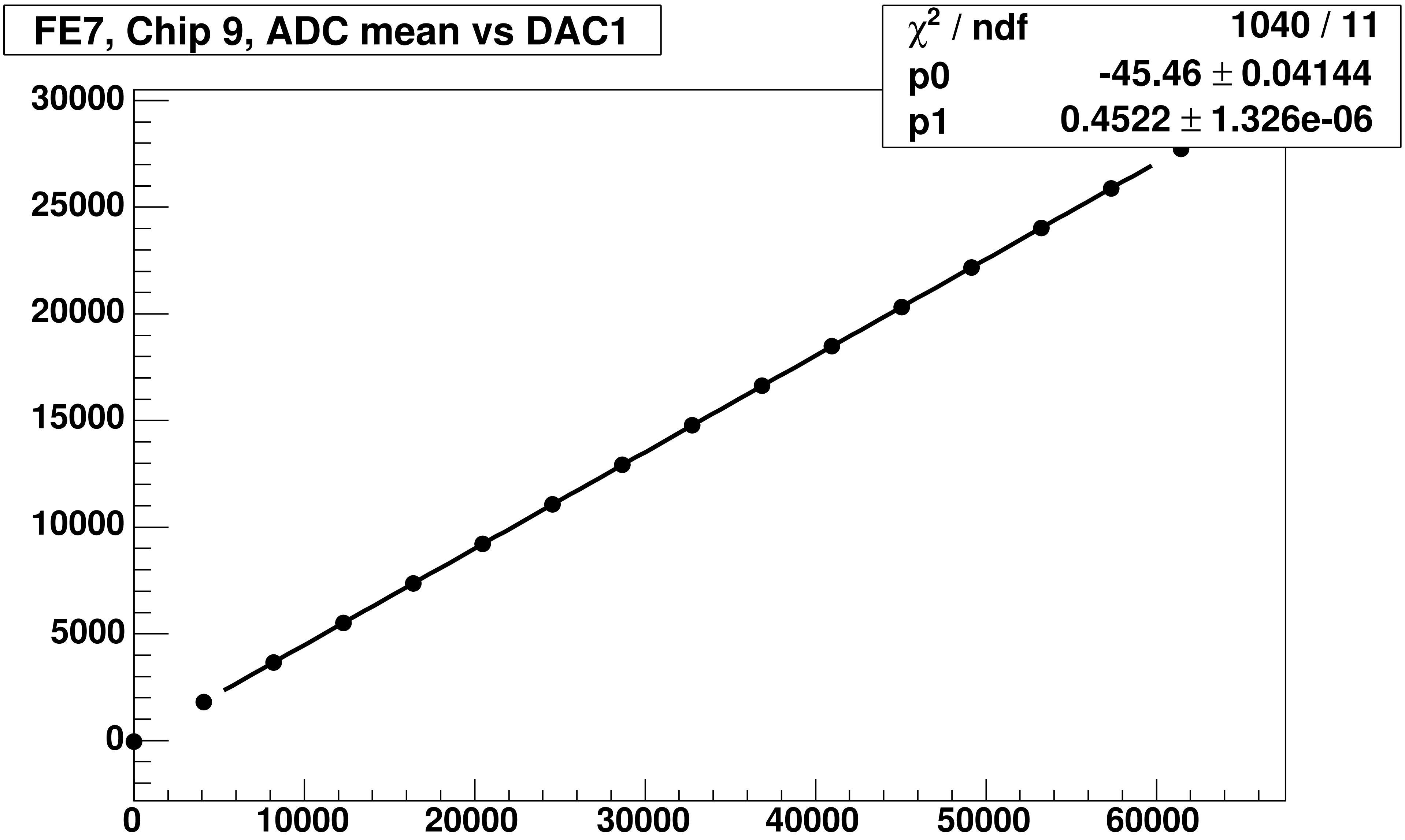
FE7, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

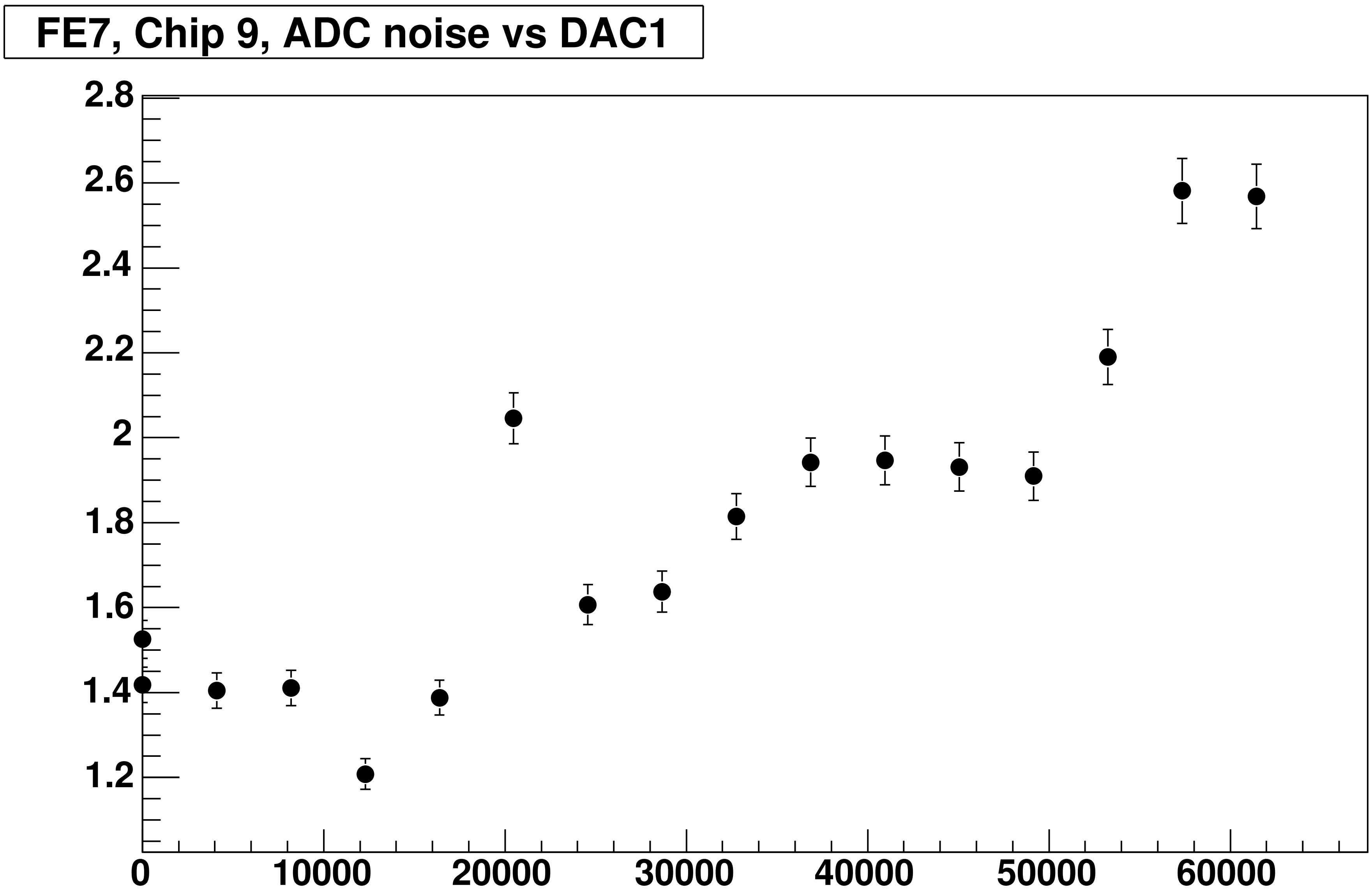

FE7, Chip 9, ADC mean vs DAC0
χ^2 / ndf 80.98 / 11
p0 -44.02 ± 0.03989
p1 1.022e-06 ± 1.103e-06
-43.6
-43.7
-43.8
-43.9
-44
-44.1
-44.2
-44.3
0
10000
20000
30000
40000
50000
60000

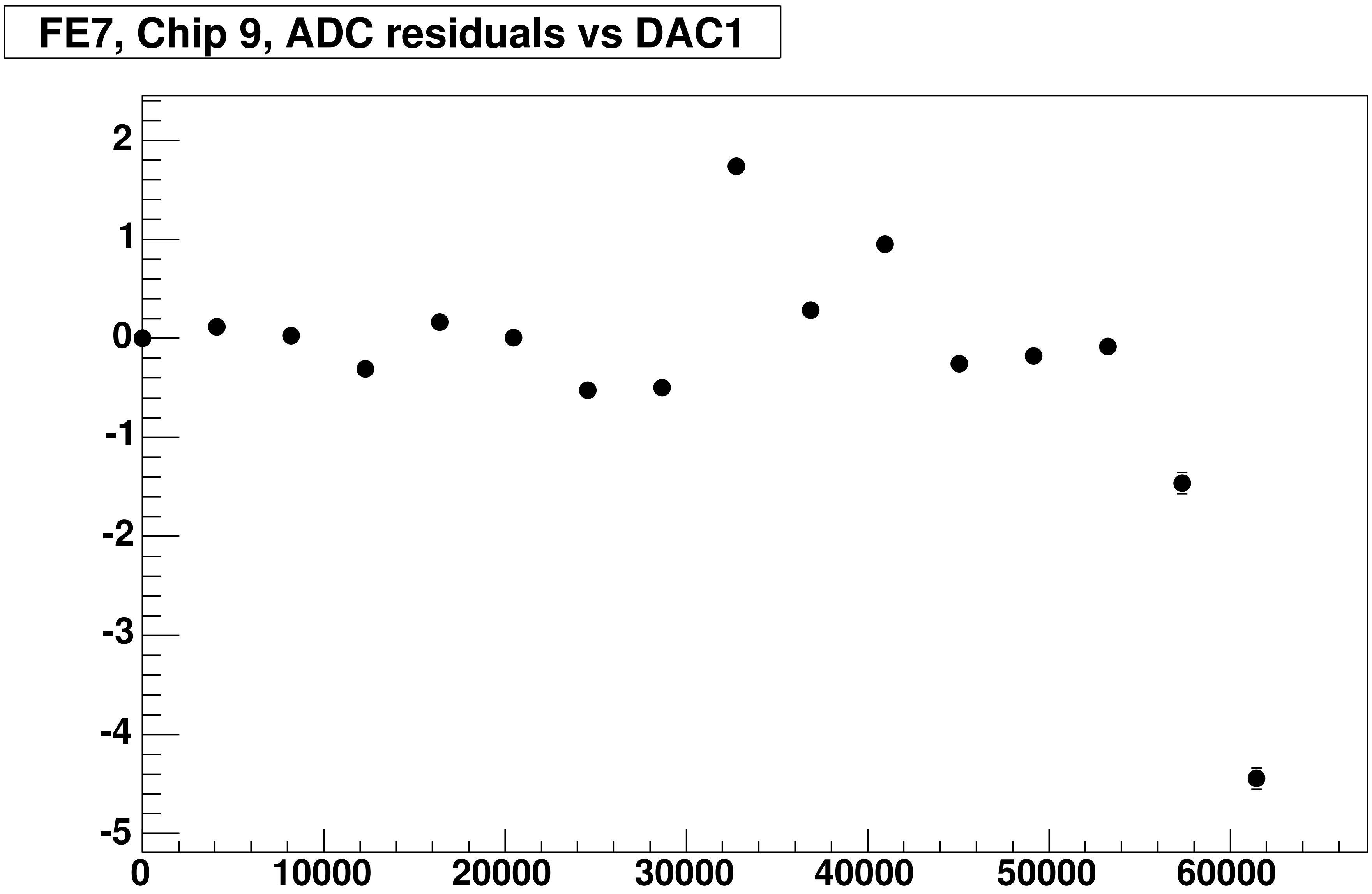

FE7, Chip 9, ADC noise vs DAC0
3.4
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

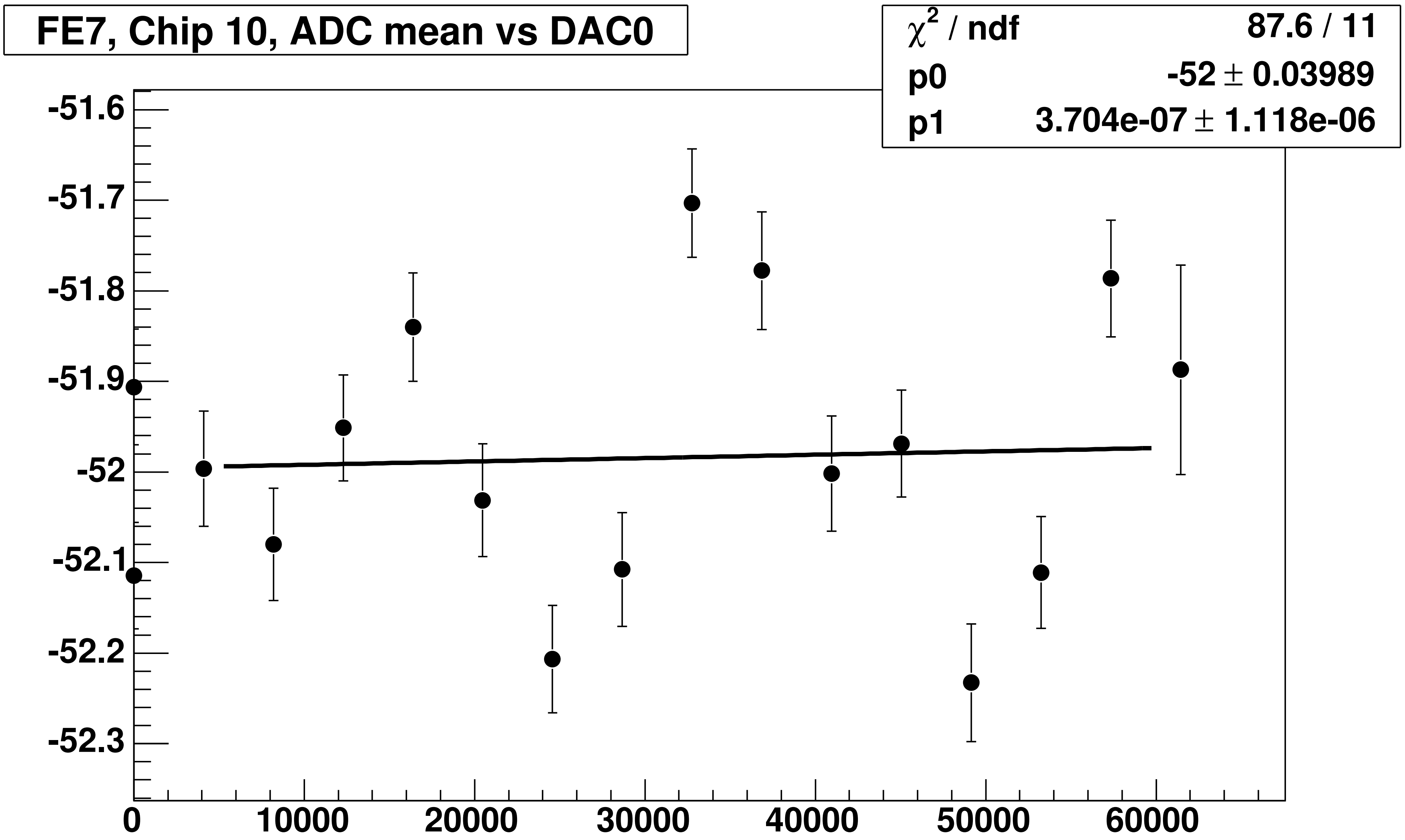


FE7, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

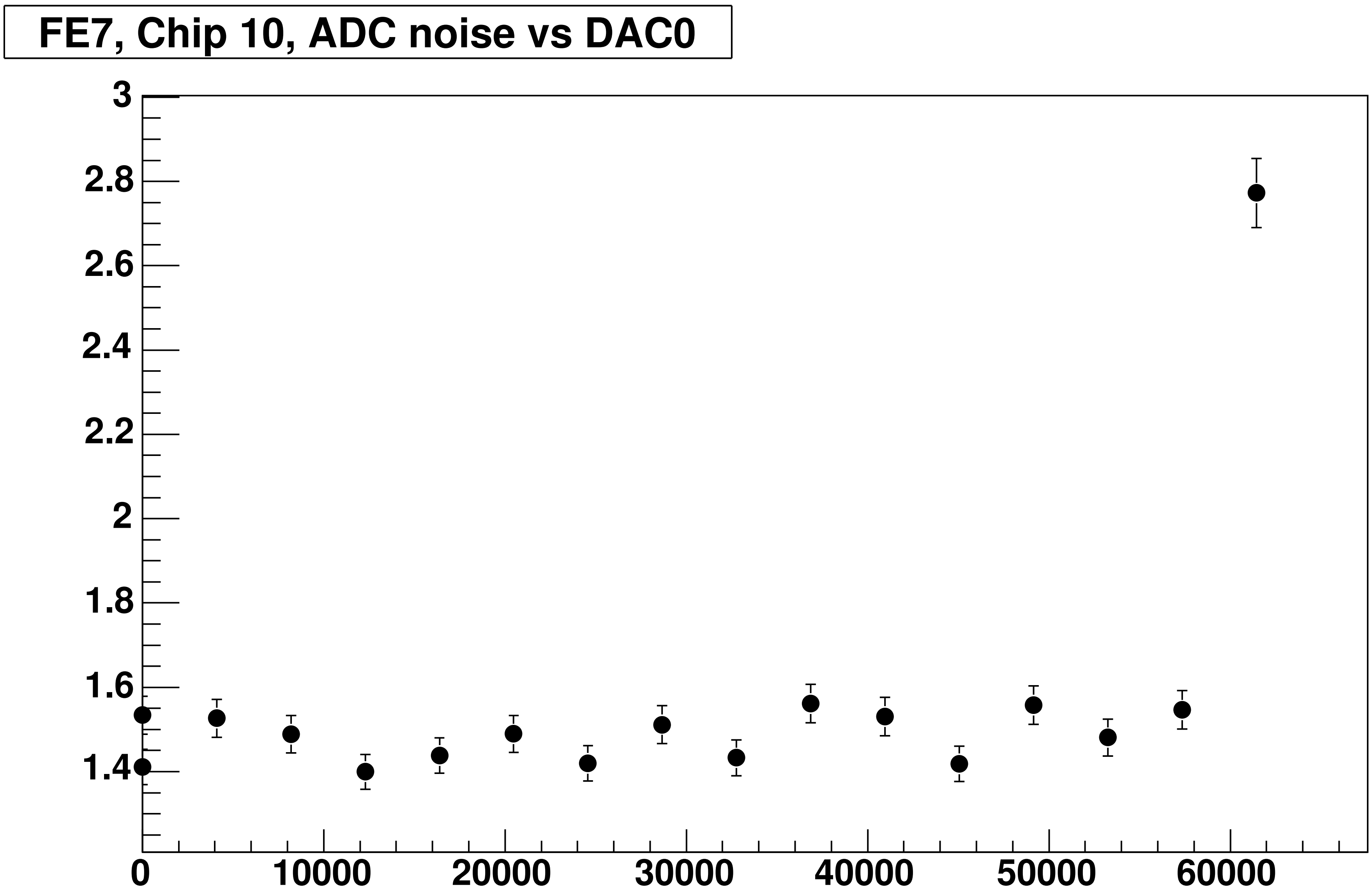

FE7, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1040 / 11
p0 -45.46 ± 0.04144
p1 0.4522 ± 1.326e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

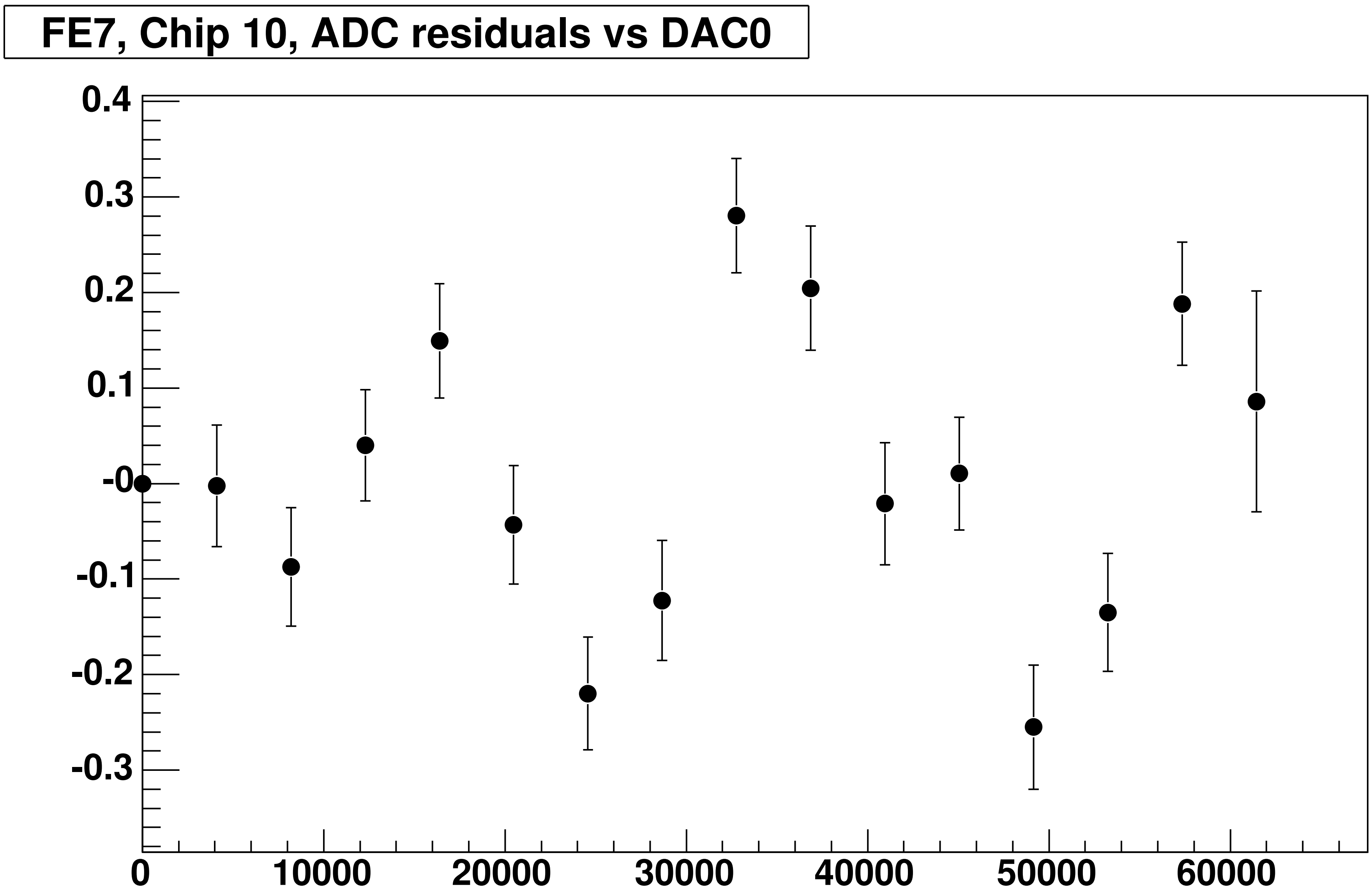

FE7, Chip 9, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

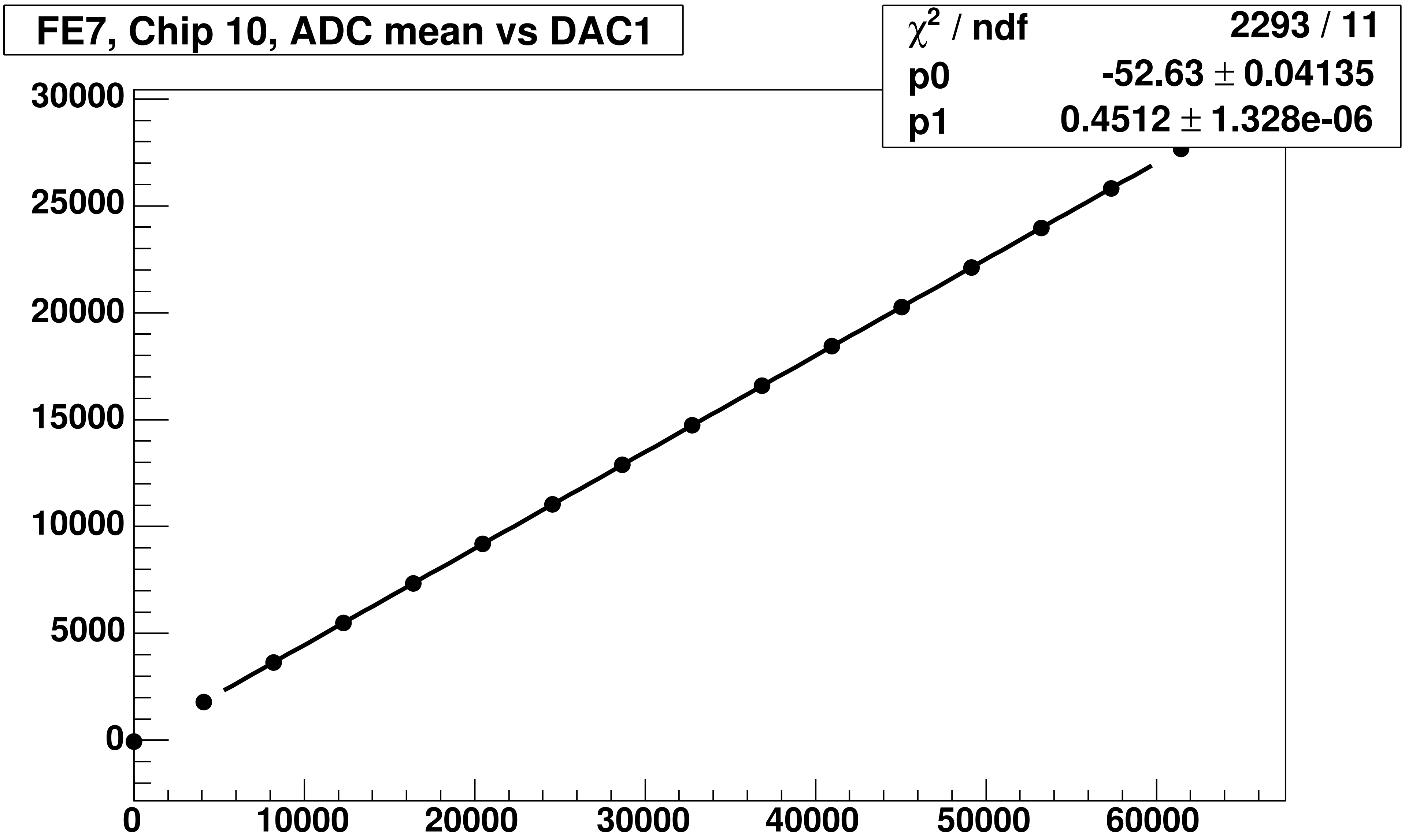

FE7, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



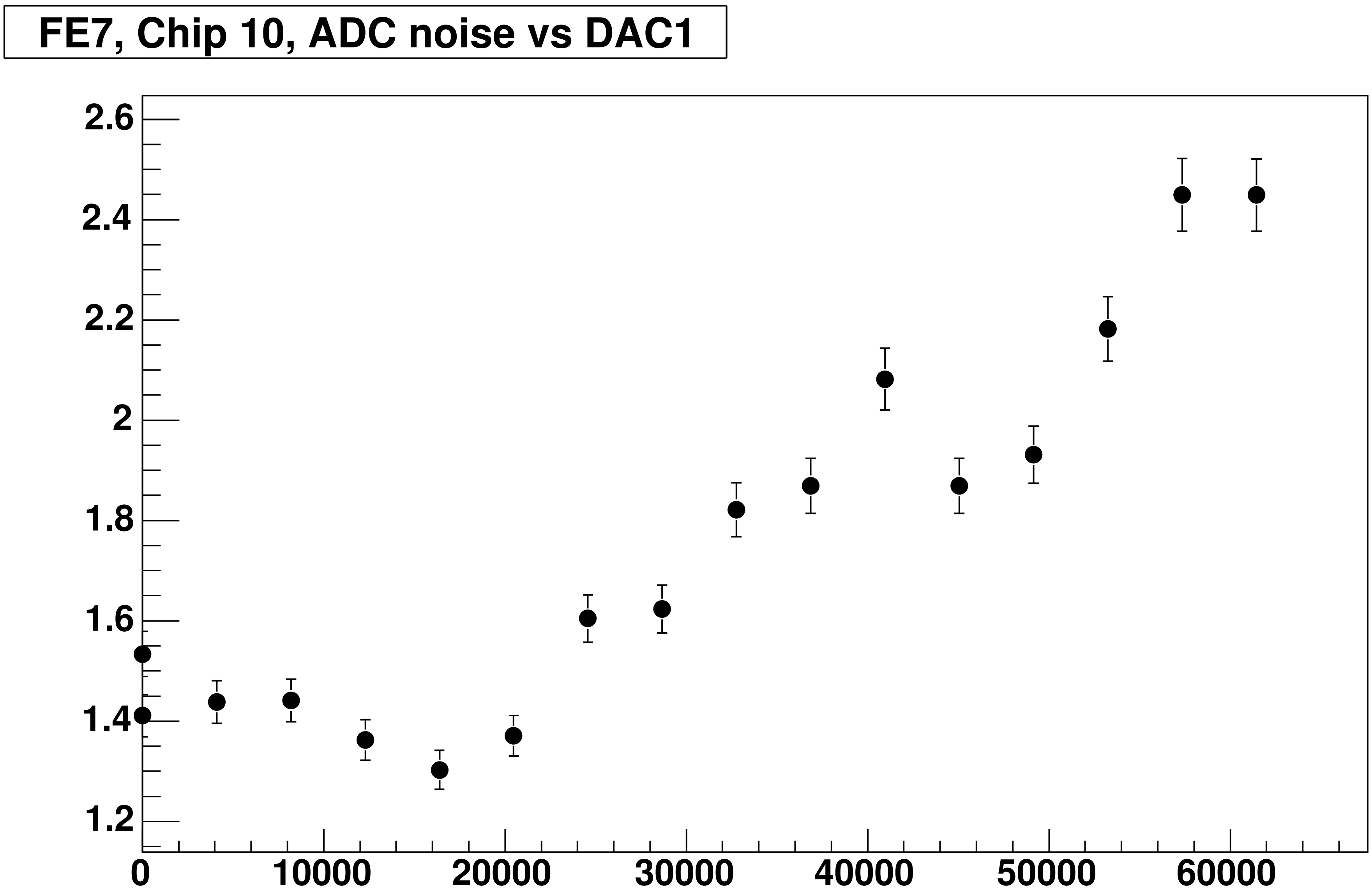
FE7, Chip 10, ADC mean vs DAC0
χ^2 / ndf 87.6 / 11
p0 -52 ± 0.03989
p1 3.704e-07 ± 1.118e-06
-51.6
-51.7
-51.8
-51.9
-52
-52.1
-52.2
-52.3
0
10000
20000
30000
40000
50000
60000

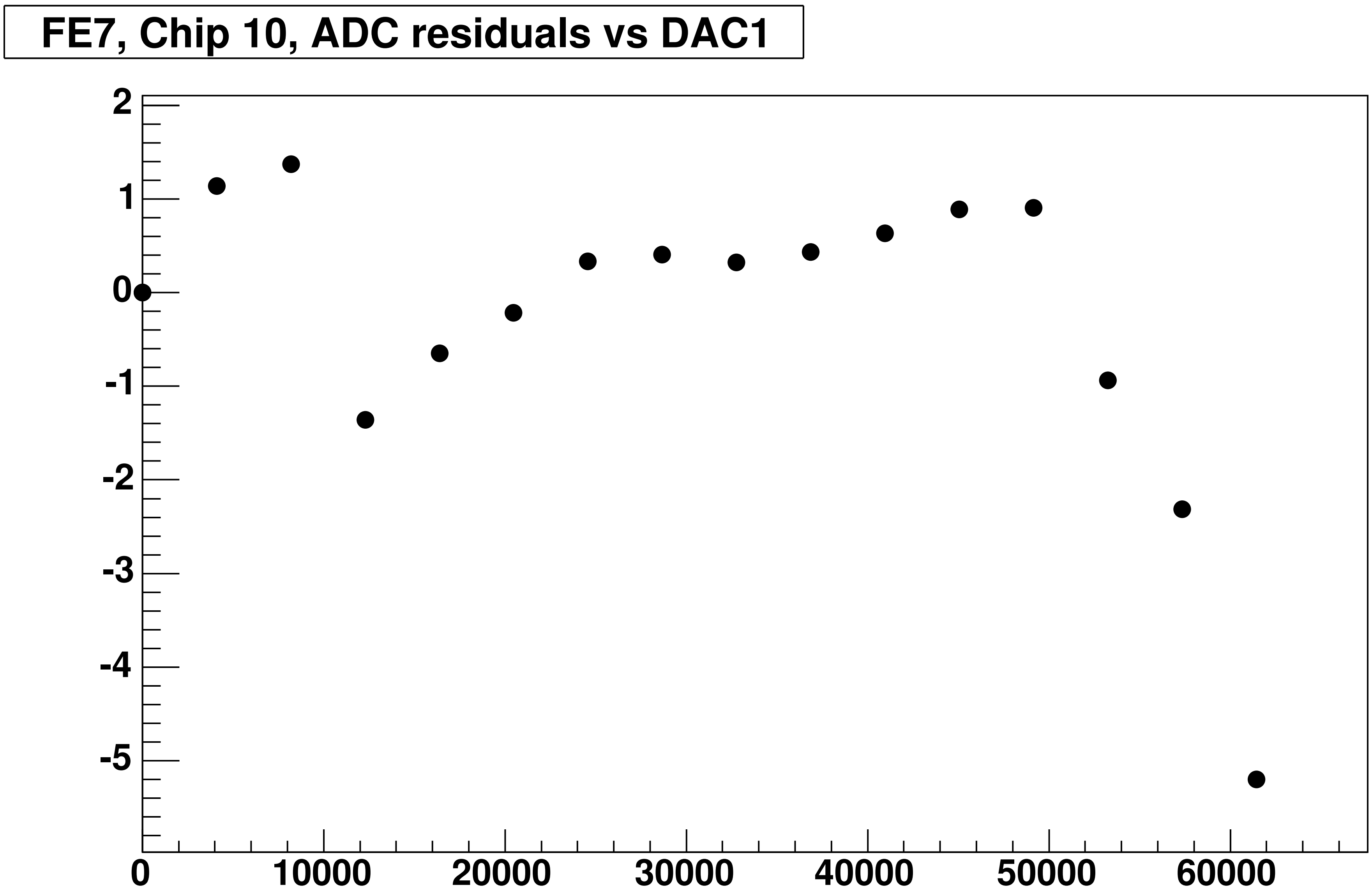

FE7, Chip 10, ADC noise vs DAC0
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE7, Chip 10, 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

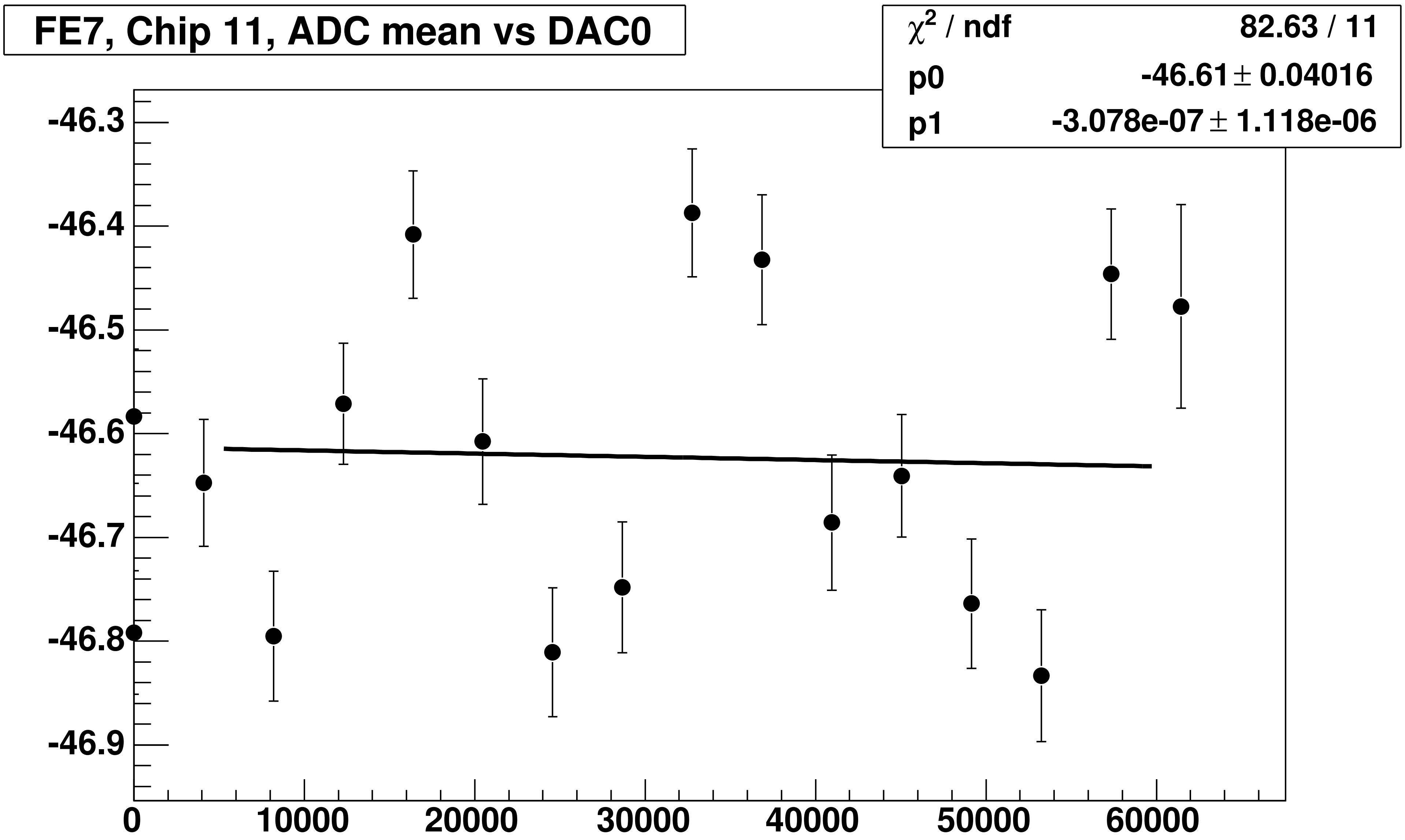


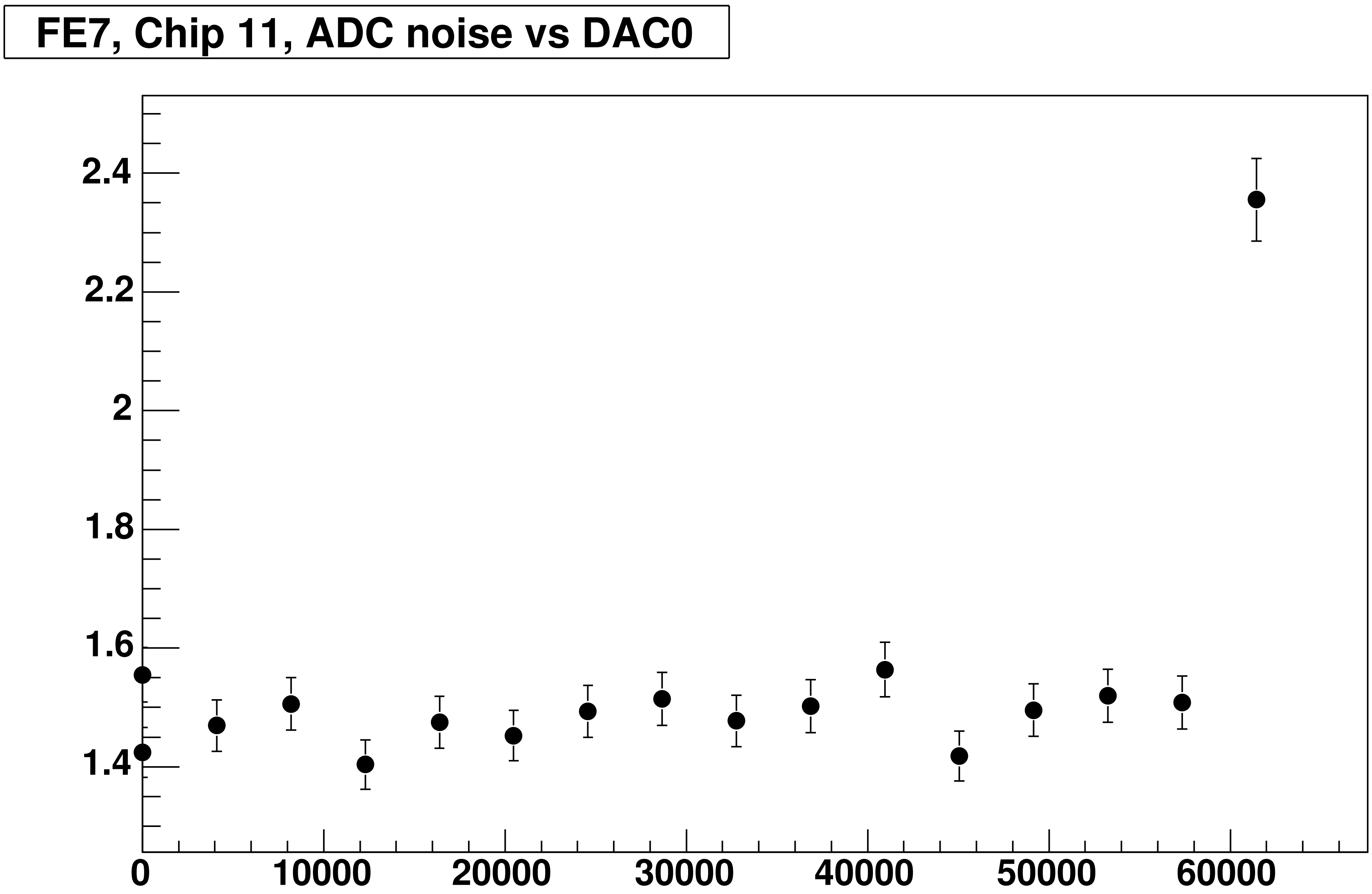
FE7, Chip 10, ADC mean vs DAC1
χ² / ndf 2293 / 11
p0 -52.63 ± 0.04135
p1 0.4512 ± 1.328e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

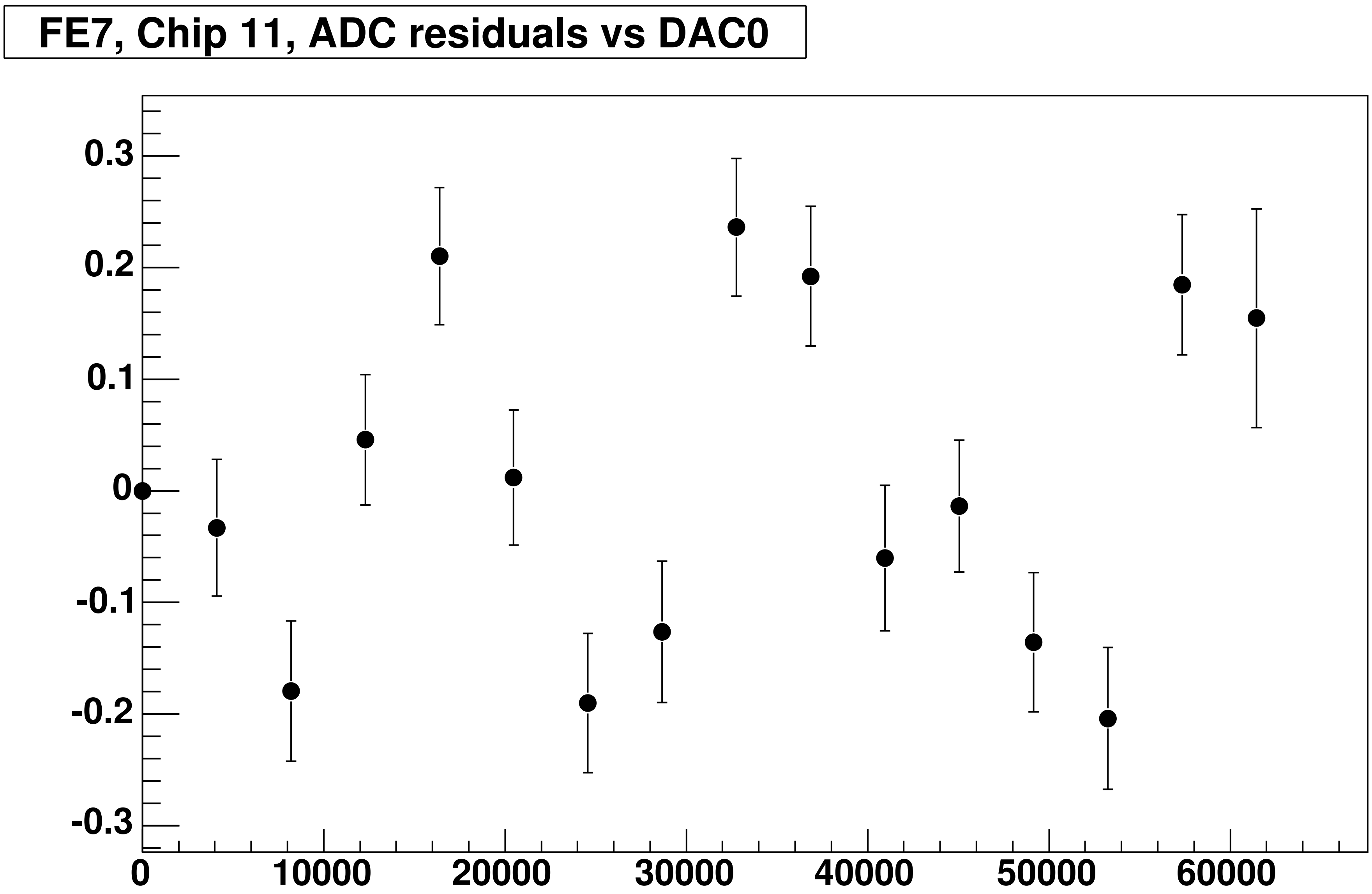


FE7, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

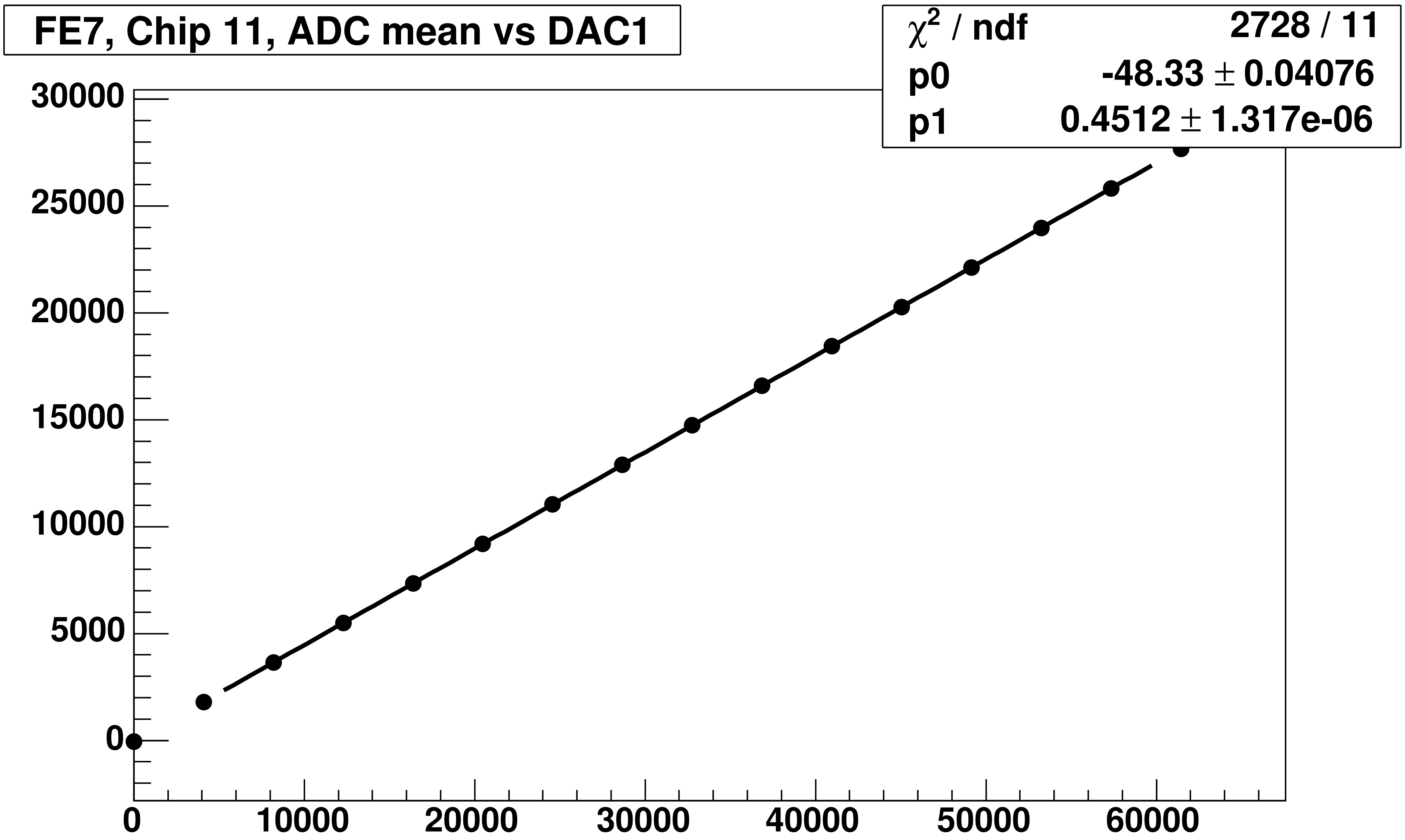

FE7, Chip 11, ADC mean vs DAC0
χ^2 / ndf 82.63 / 11
p0 -46.61 ± 0.04016
p1 -3.078e-07 ± 1.118e-06
-46.3
-46.4
-46.5
-46.6
-46.7
-46.8
-46.9
0
10000
20000
30000
40000
50000
60000

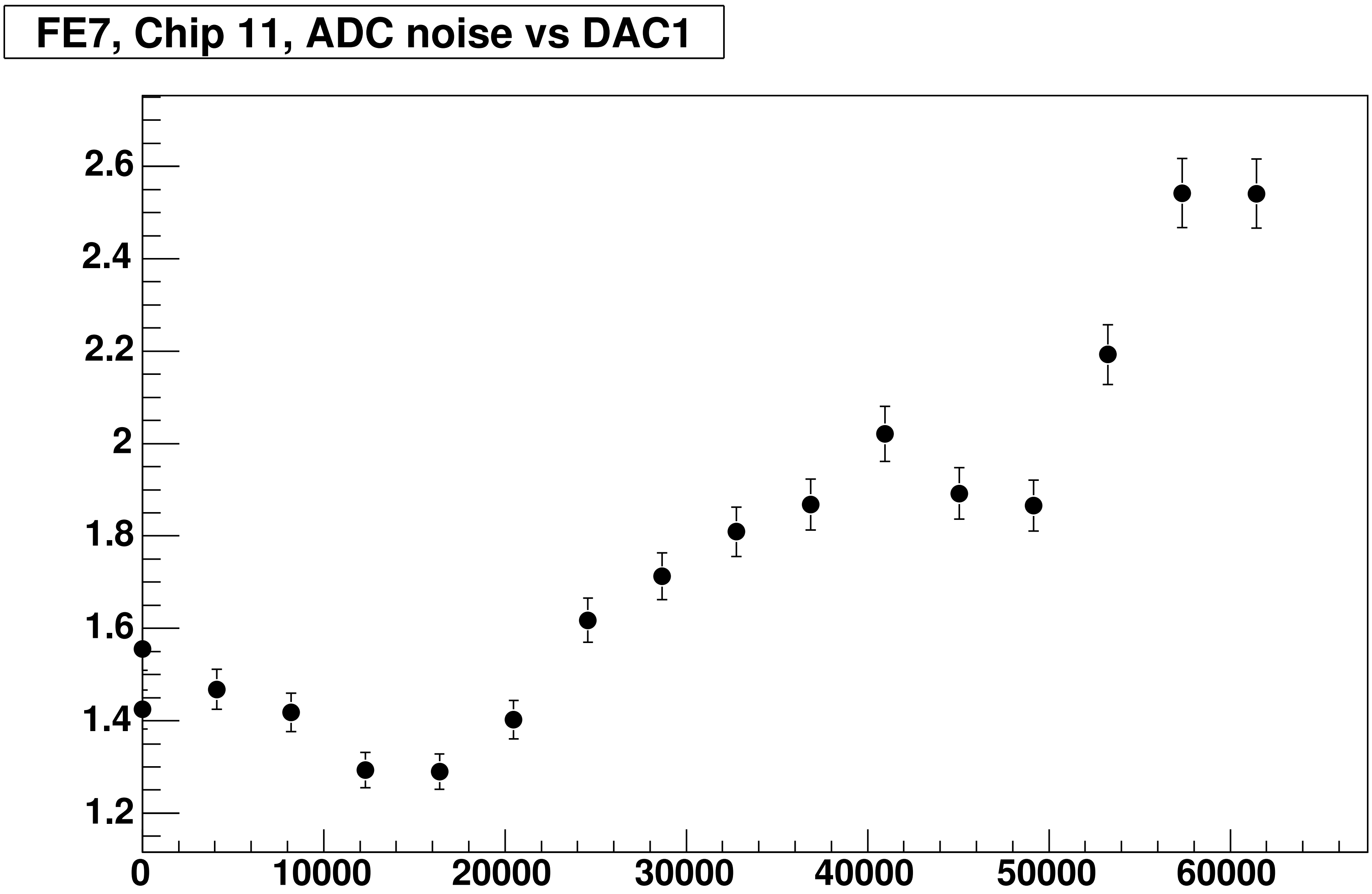


FE7, Chip 11, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

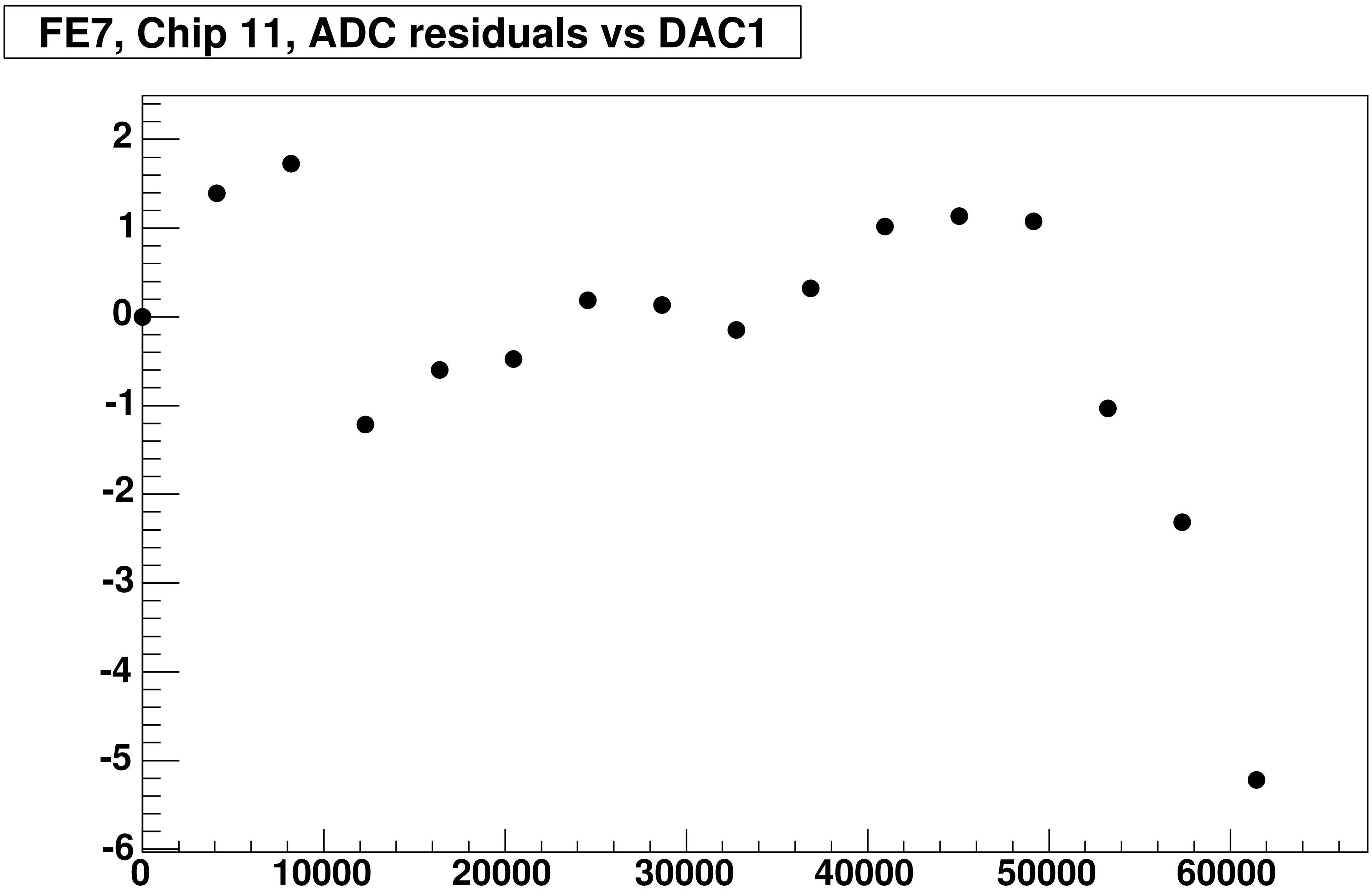


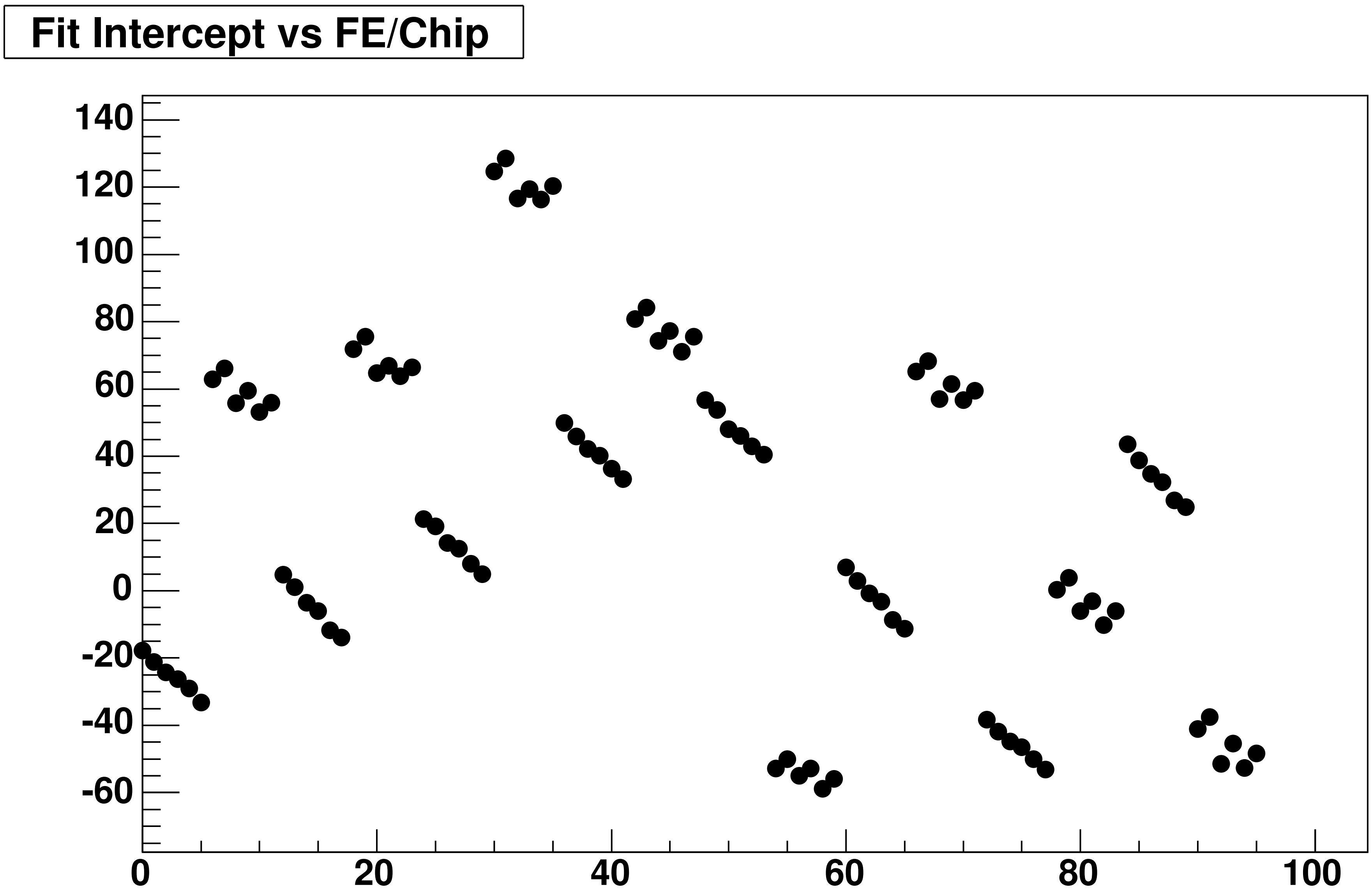
FE7, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

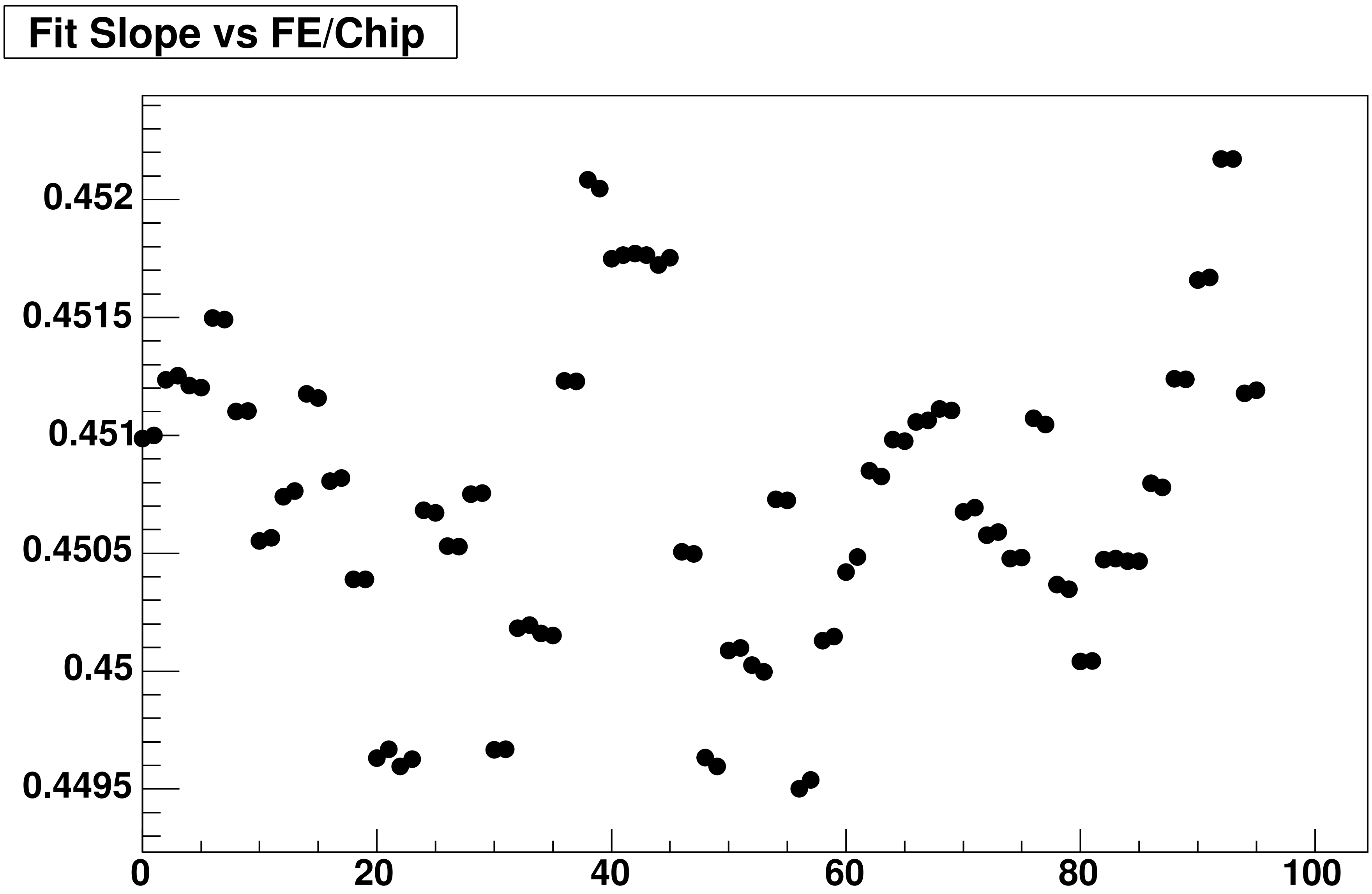

FE7, Chip 11, ADC mean vs DAC1
χ^2 / ndf 2728 / 11
p0 -48.33 ± 0.04076
p1 0.4512 ± 1.317e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



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


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


Fit Intercept vs FE/Chip
140
120
100
80
60
40
20
0
-20
-40
-60
0
20
40
60
80
100



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