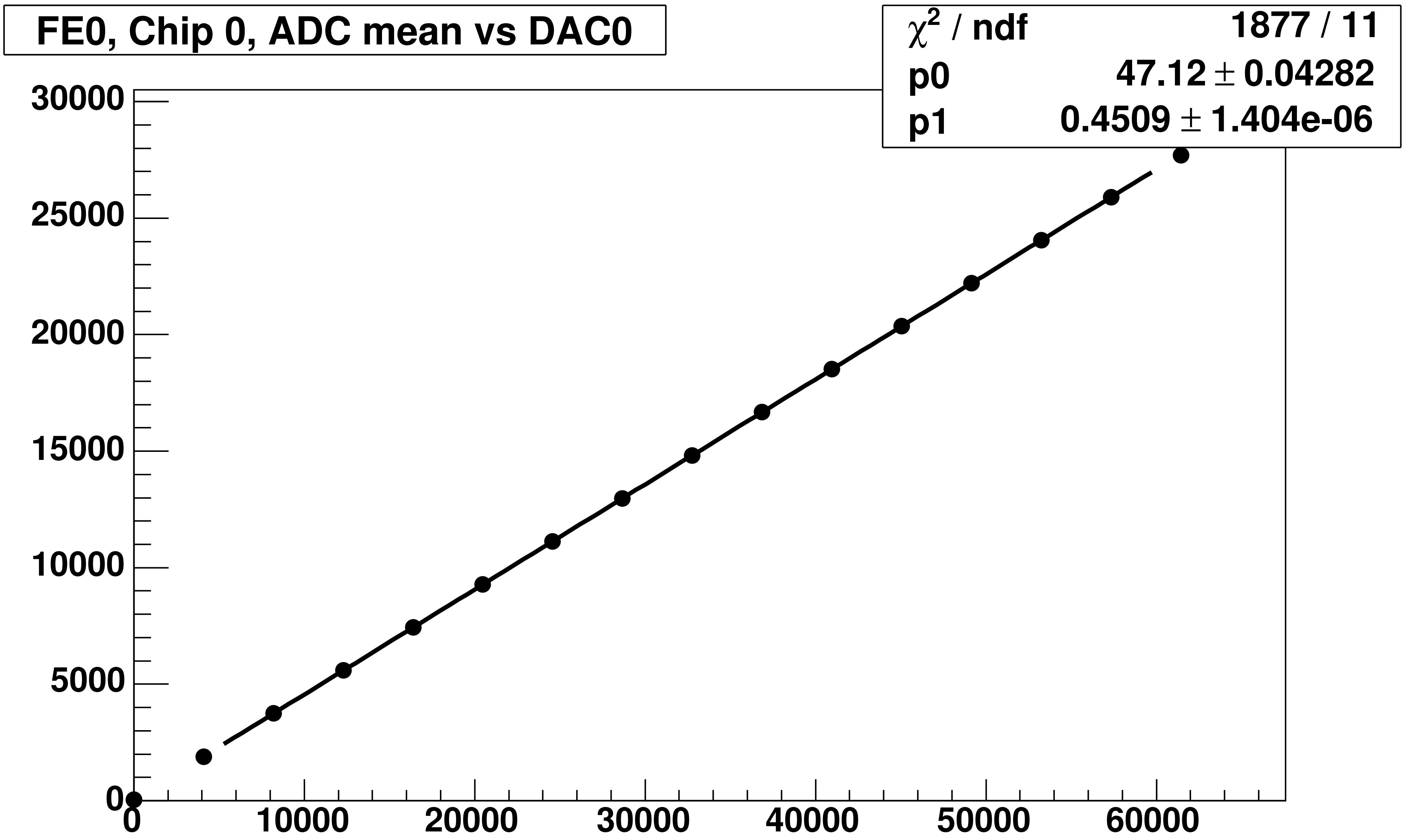
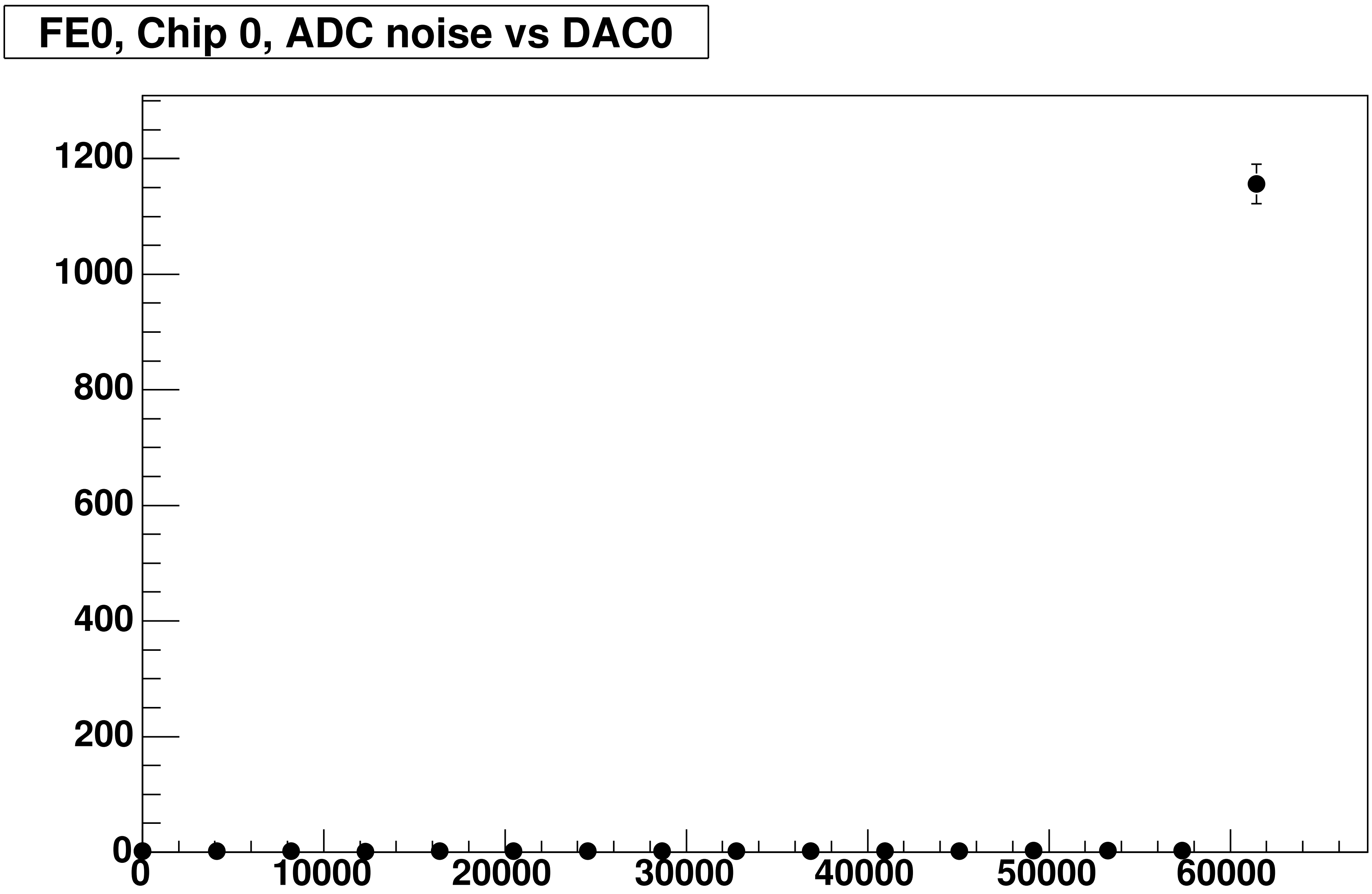
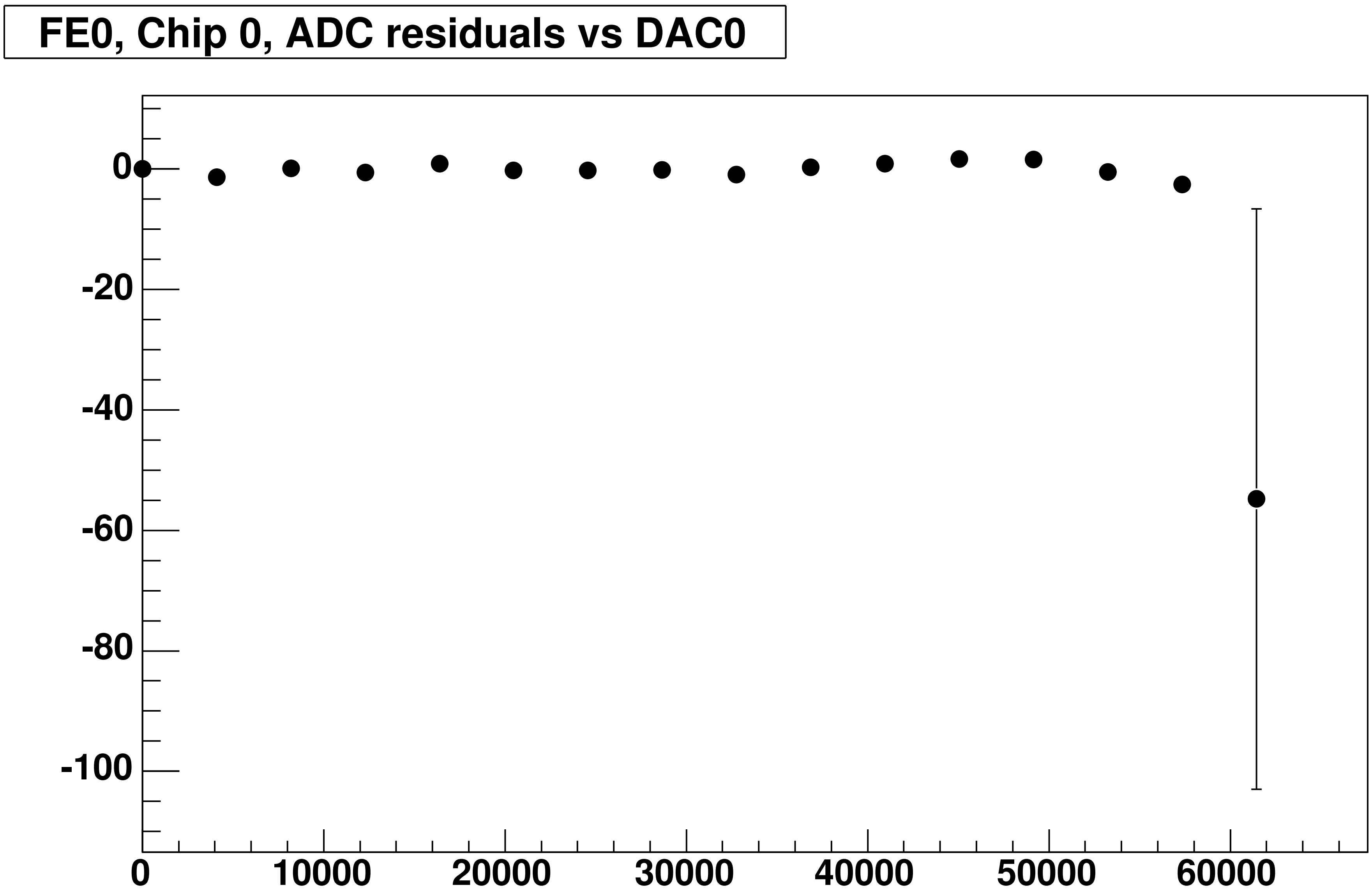
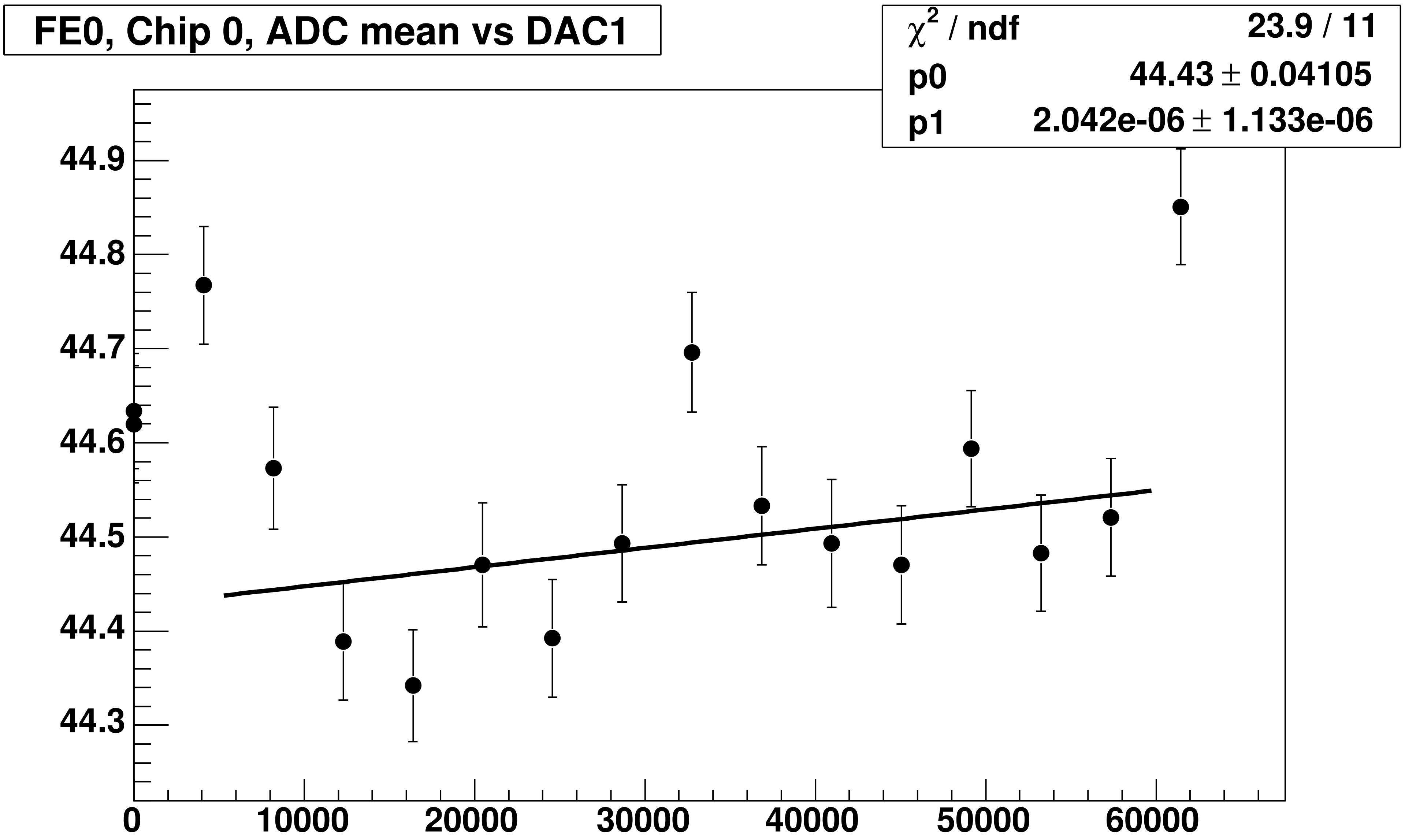
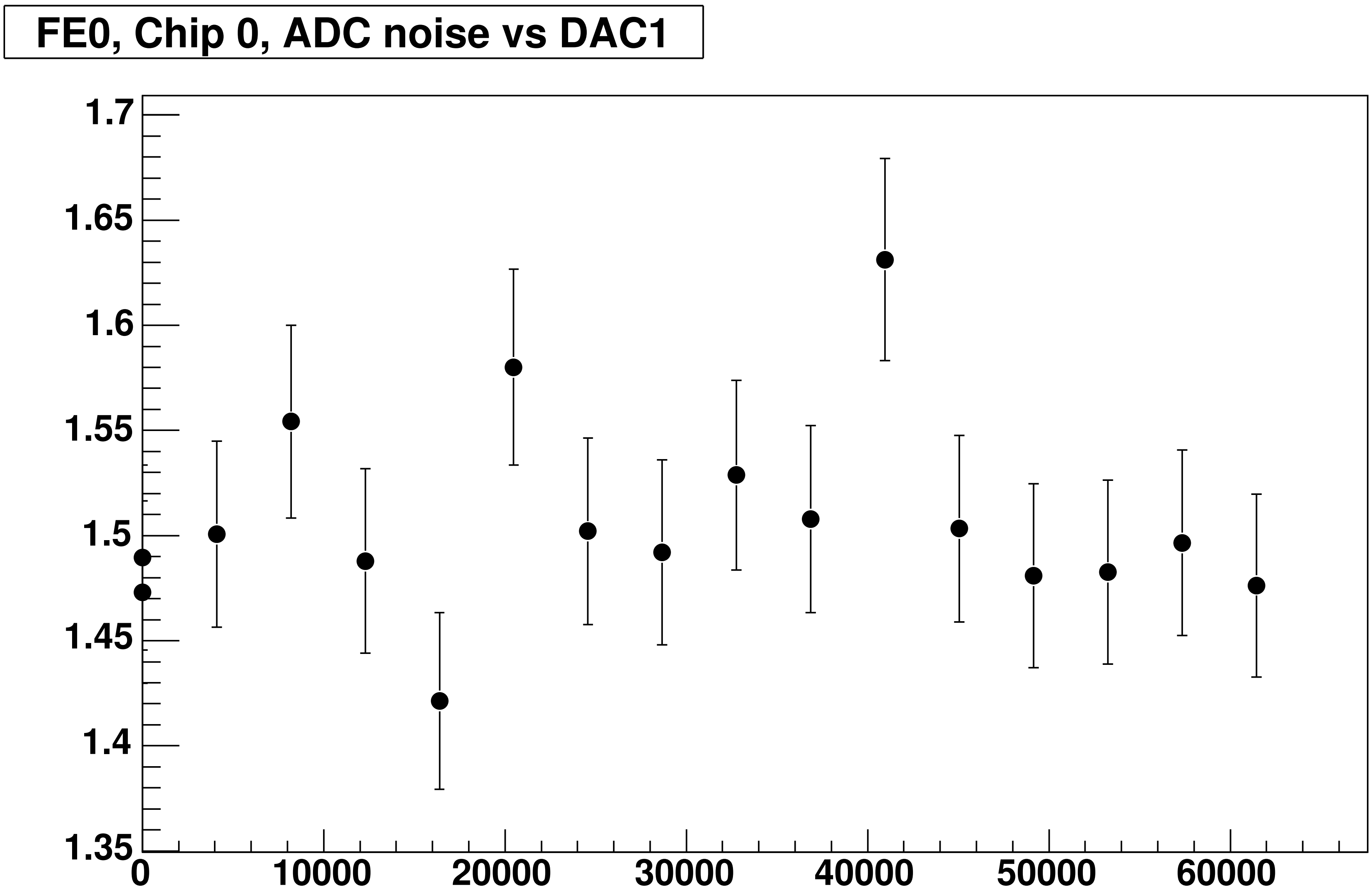

FE0, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1877 / 11
p0 47.12 ± 0.04282
p1 0.4509 ± 1.404e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

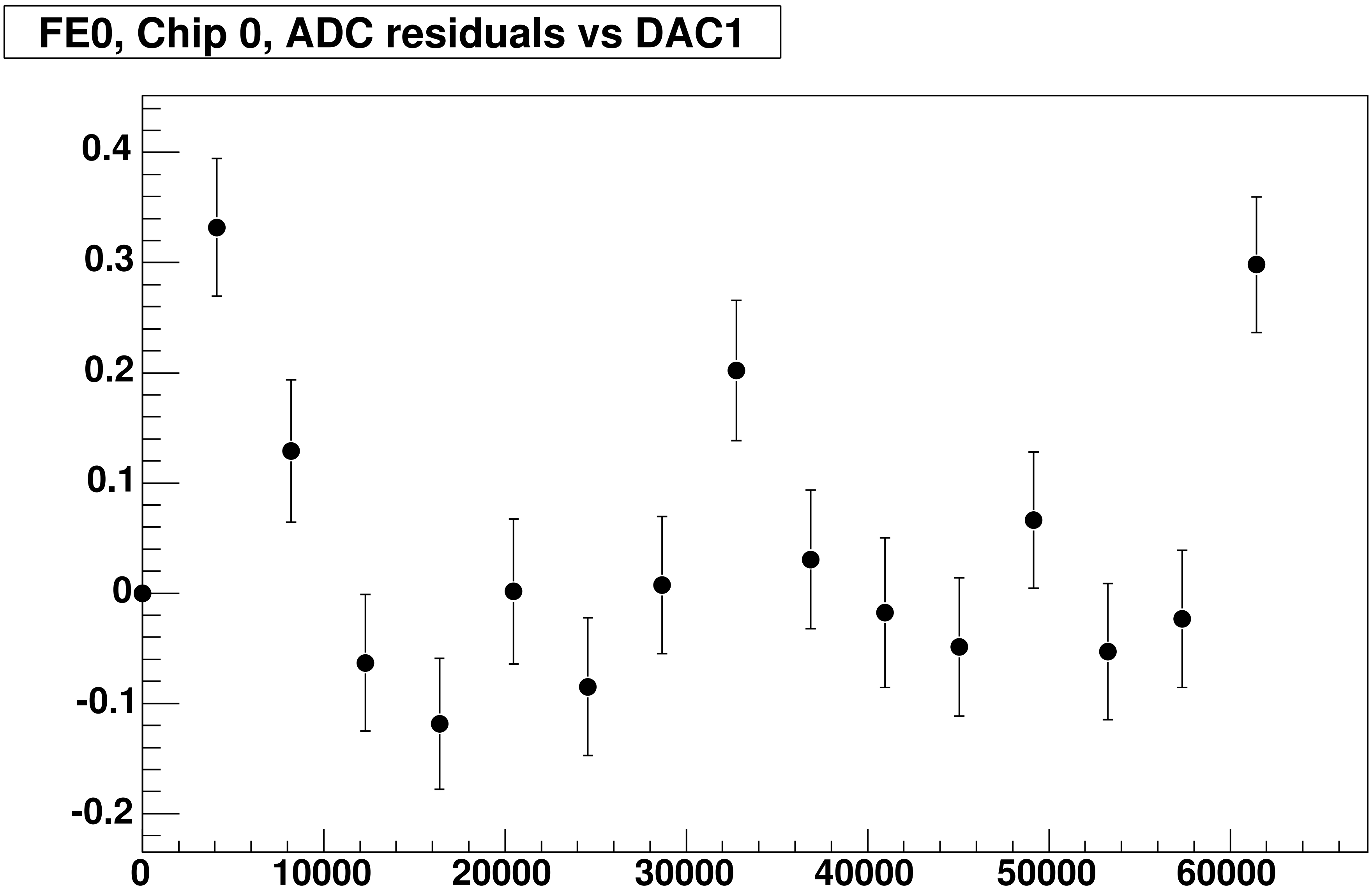

FE0, Chip 0, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

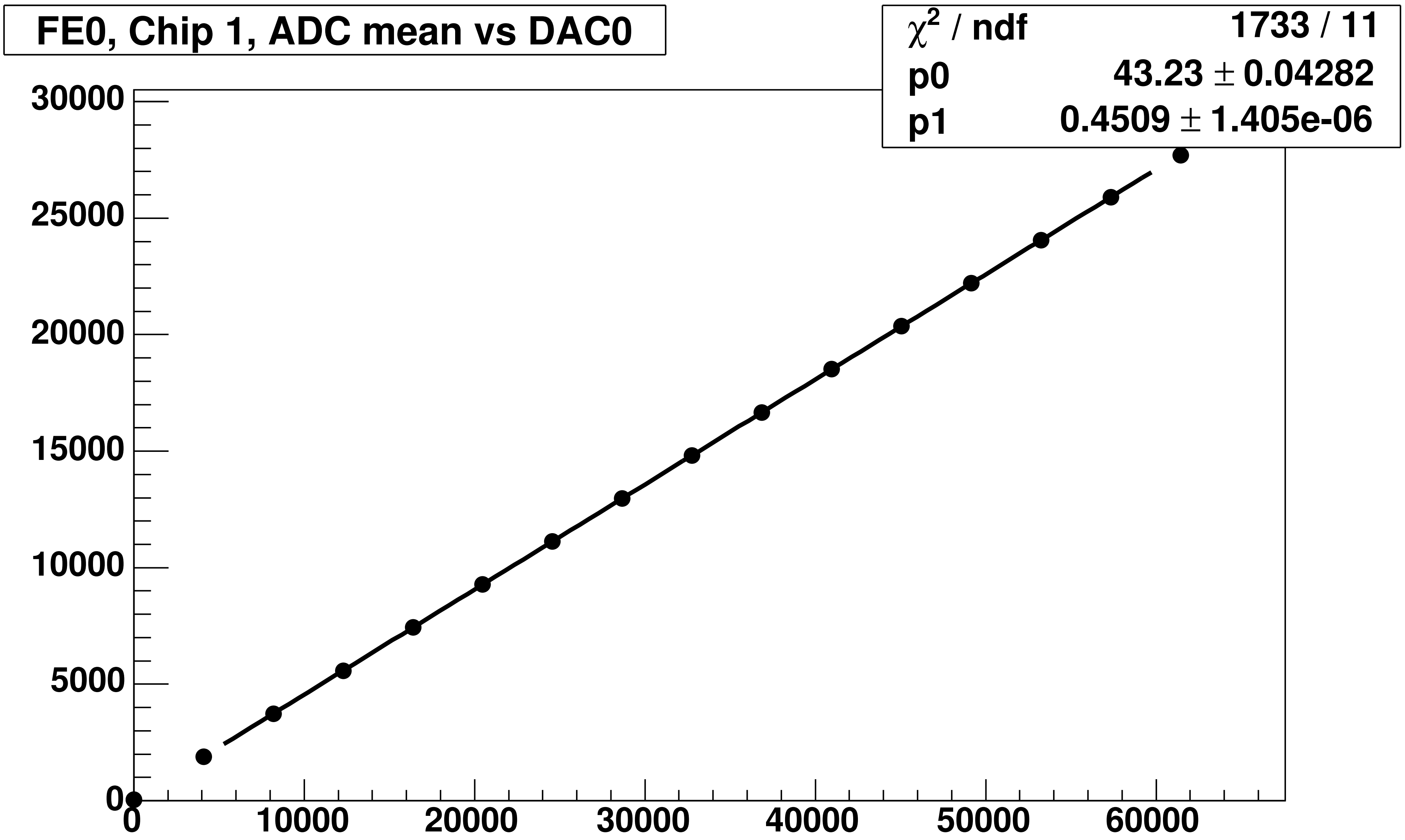

FE0, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



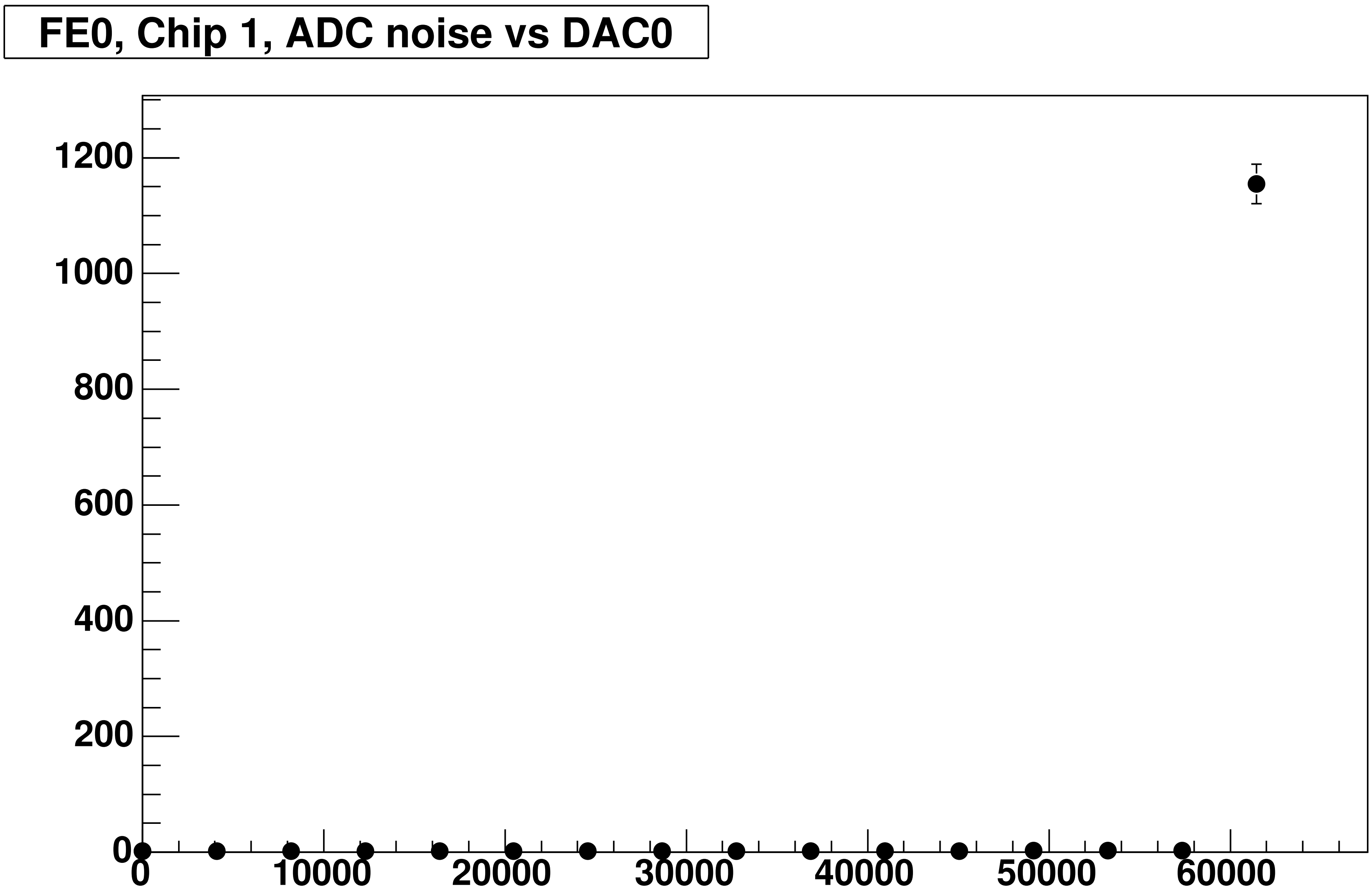
FE0, Chip 0, ADC mean vs DAC1
χ^2 / ndf 23.9 / 11
p0 44.43 ± 0.04105
p1 2.042e-06 ± 1.133e-06
44.3
44.4
44.5
44.6
44.7
44.8
44.9
0
10000
20000
30000
40000
50000
60000


FE0, Chip 0, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

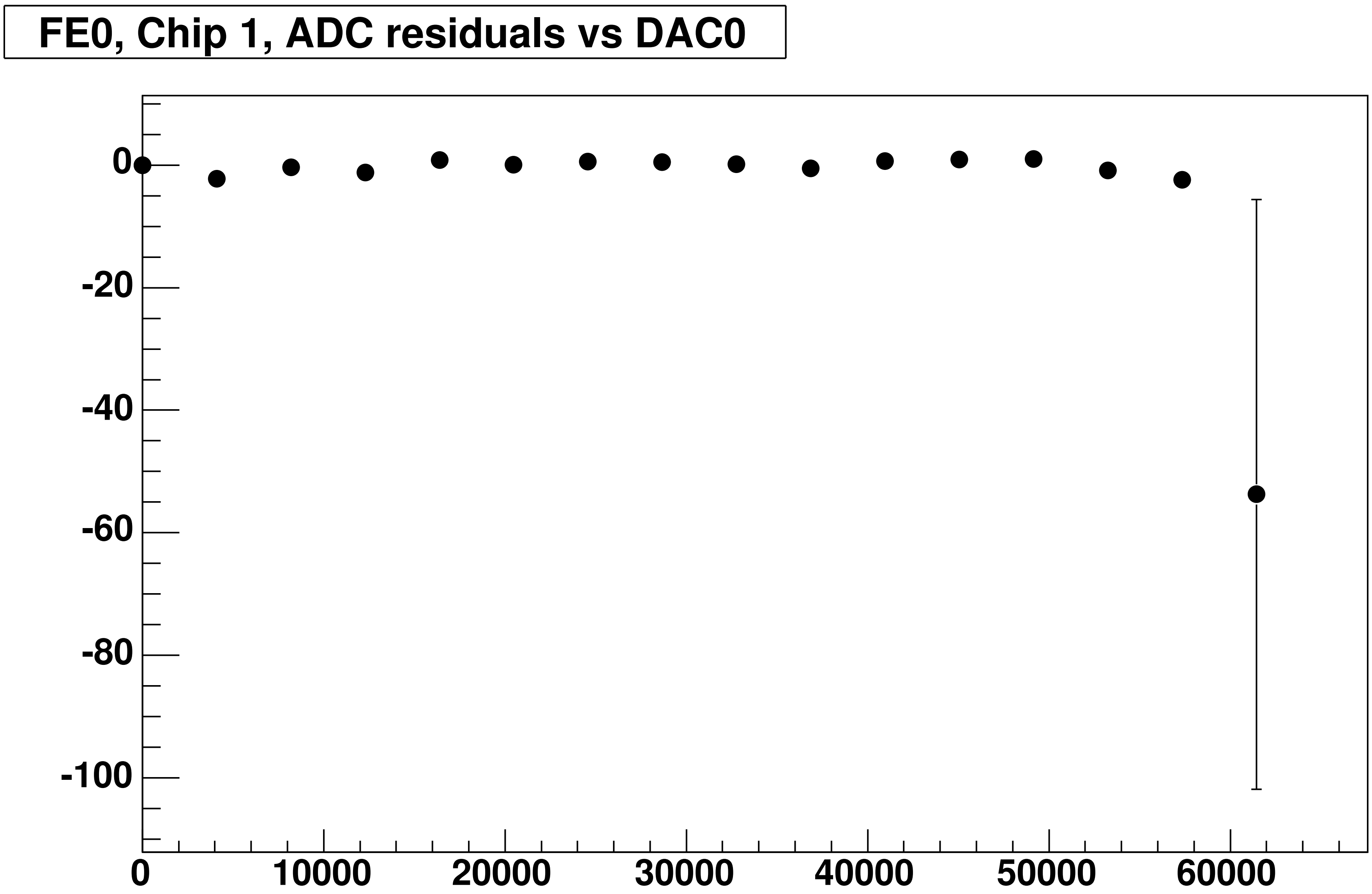

FE0, Chip 0, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

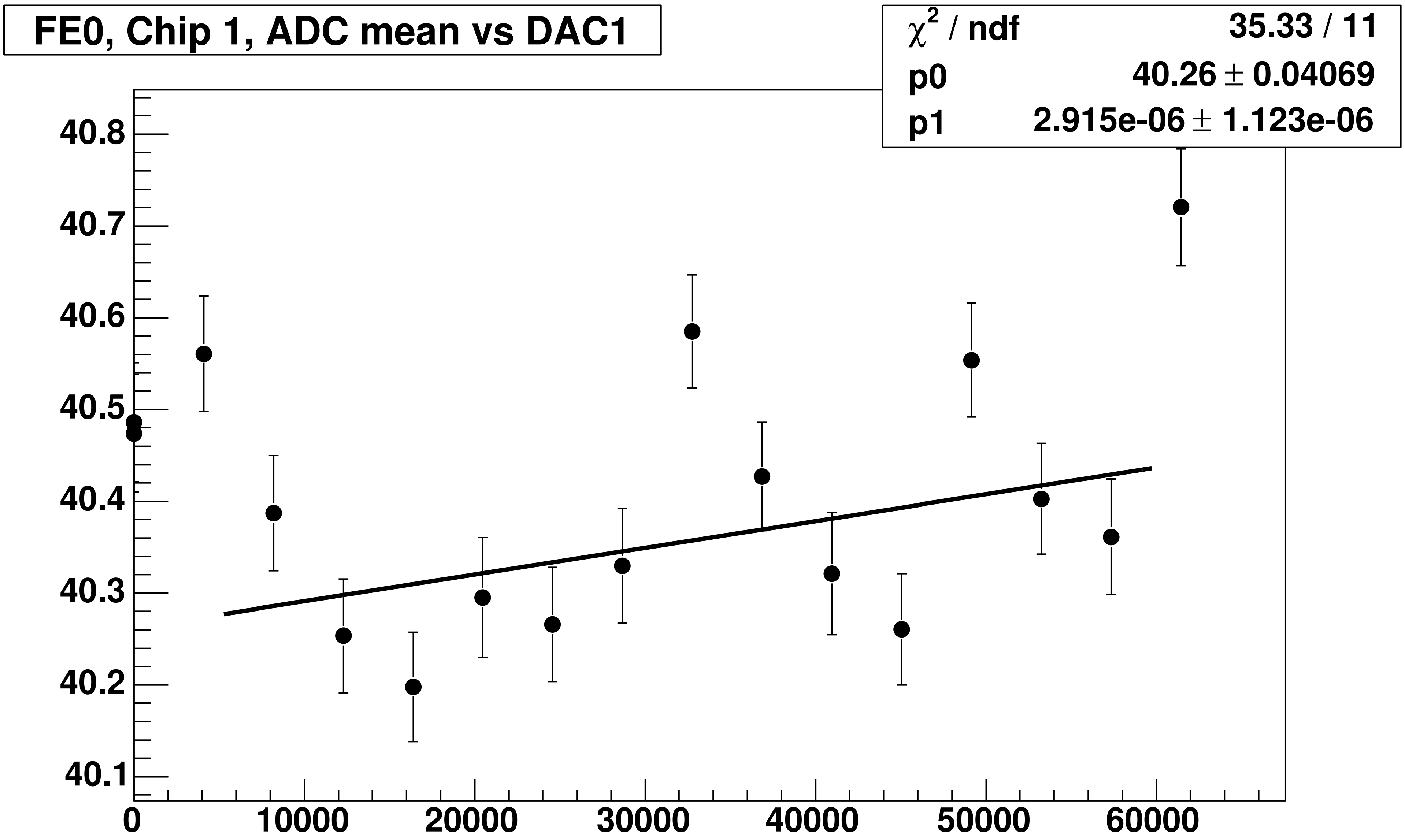


FE0, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1733 / 11
p0 43.23 ± 0.04282
p1 0.4509 ± 1.405e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

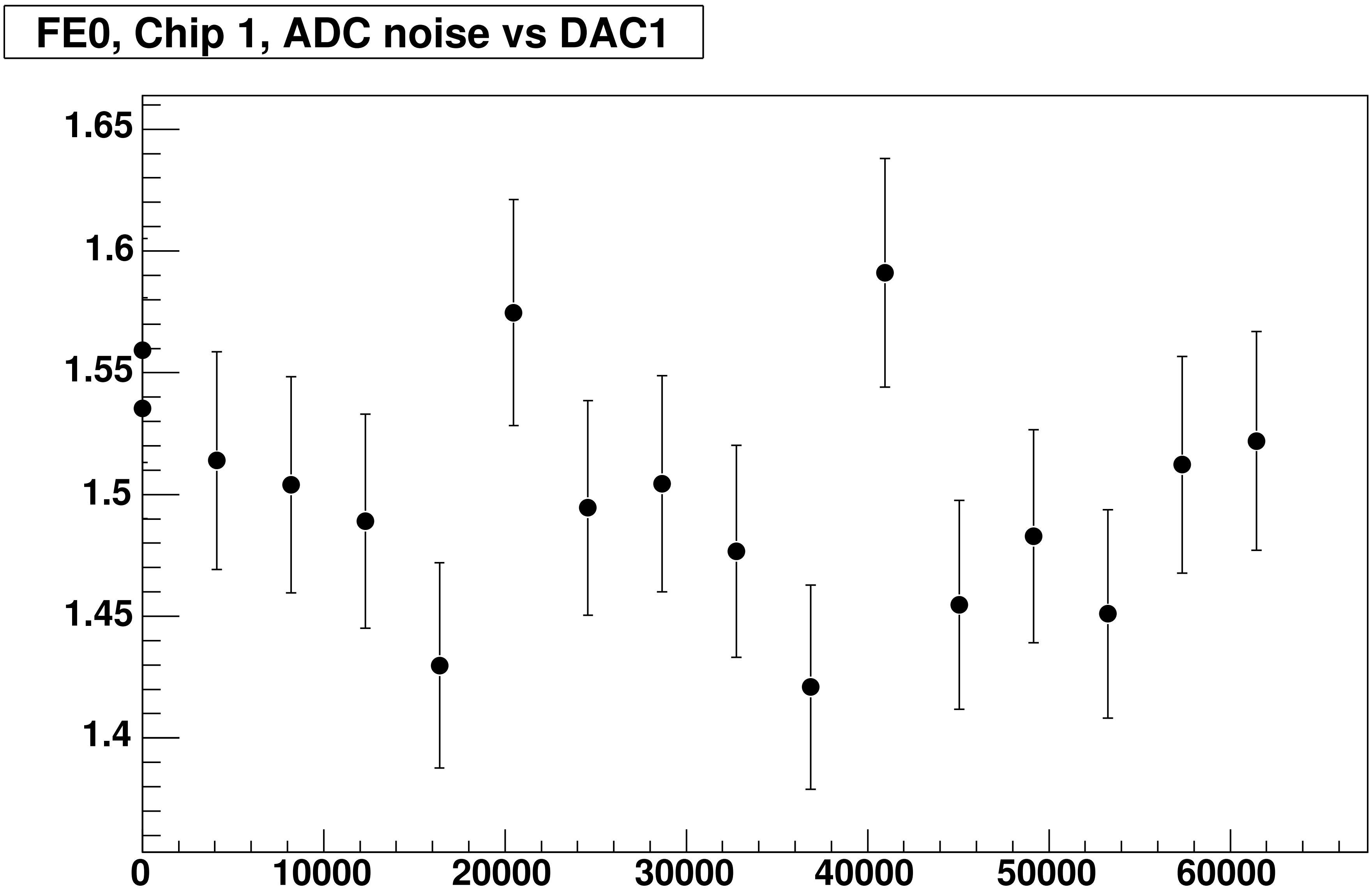


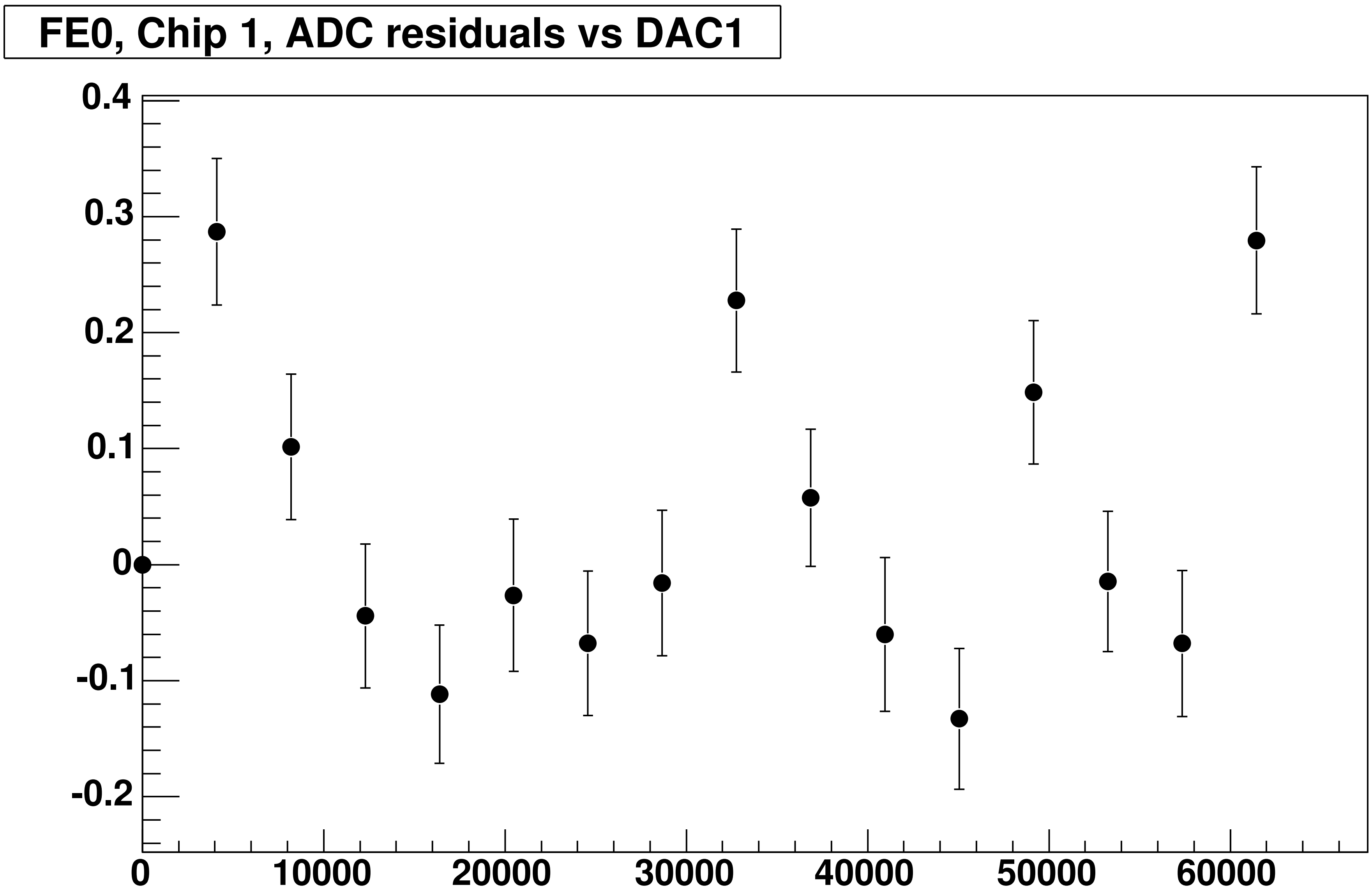
FE0, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

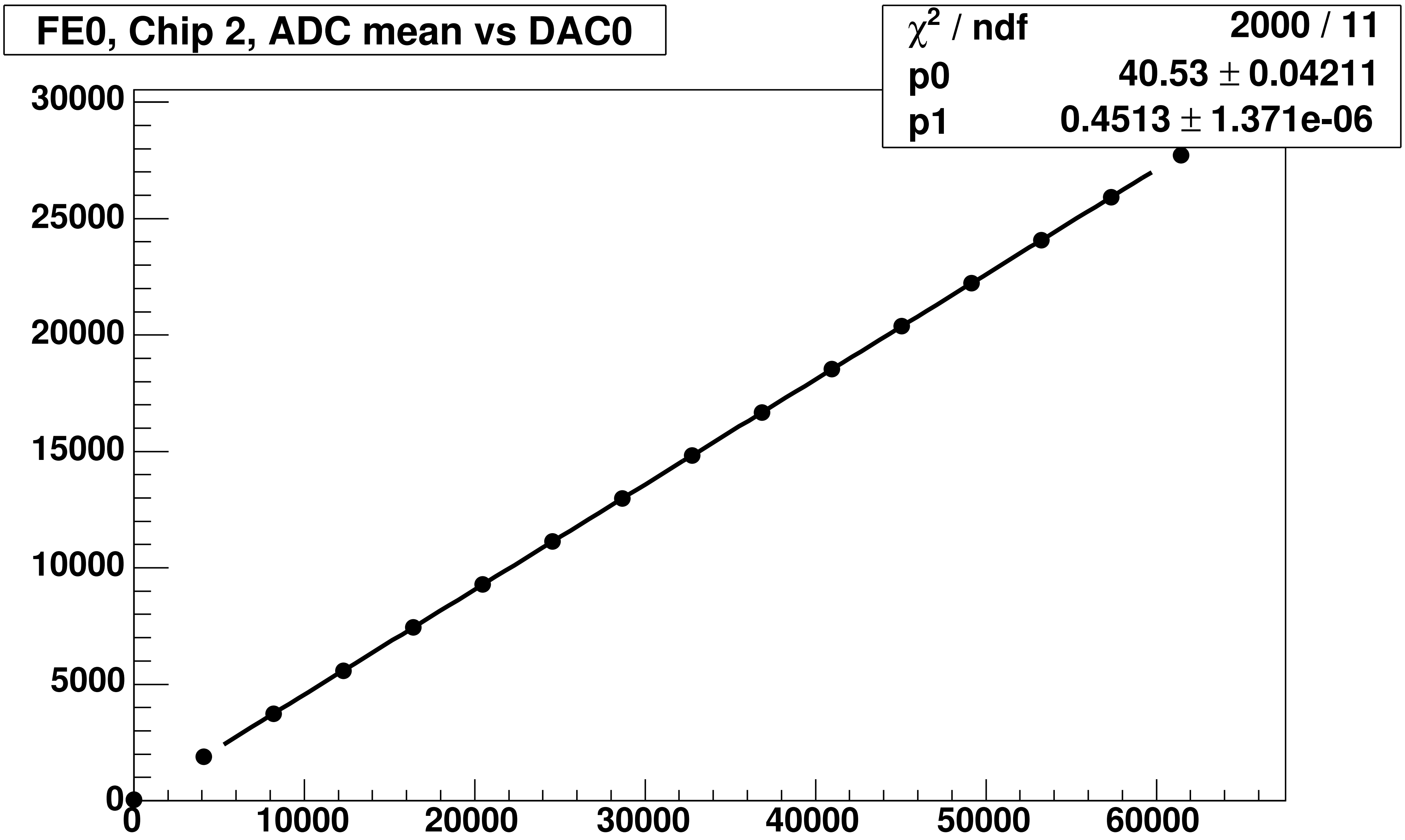


FE0, Chip 1, ADC mean vs DAC1
χ^2 / ndf 35.33 / 11
p0 40.26 ± 0.04069
p1 2.915e-06 ± 1.123e-06
40.8
40.7
40.6
40.5
40.4
40.3
40.2
40.1
0
10000
20000
30000
40000
50000
60000

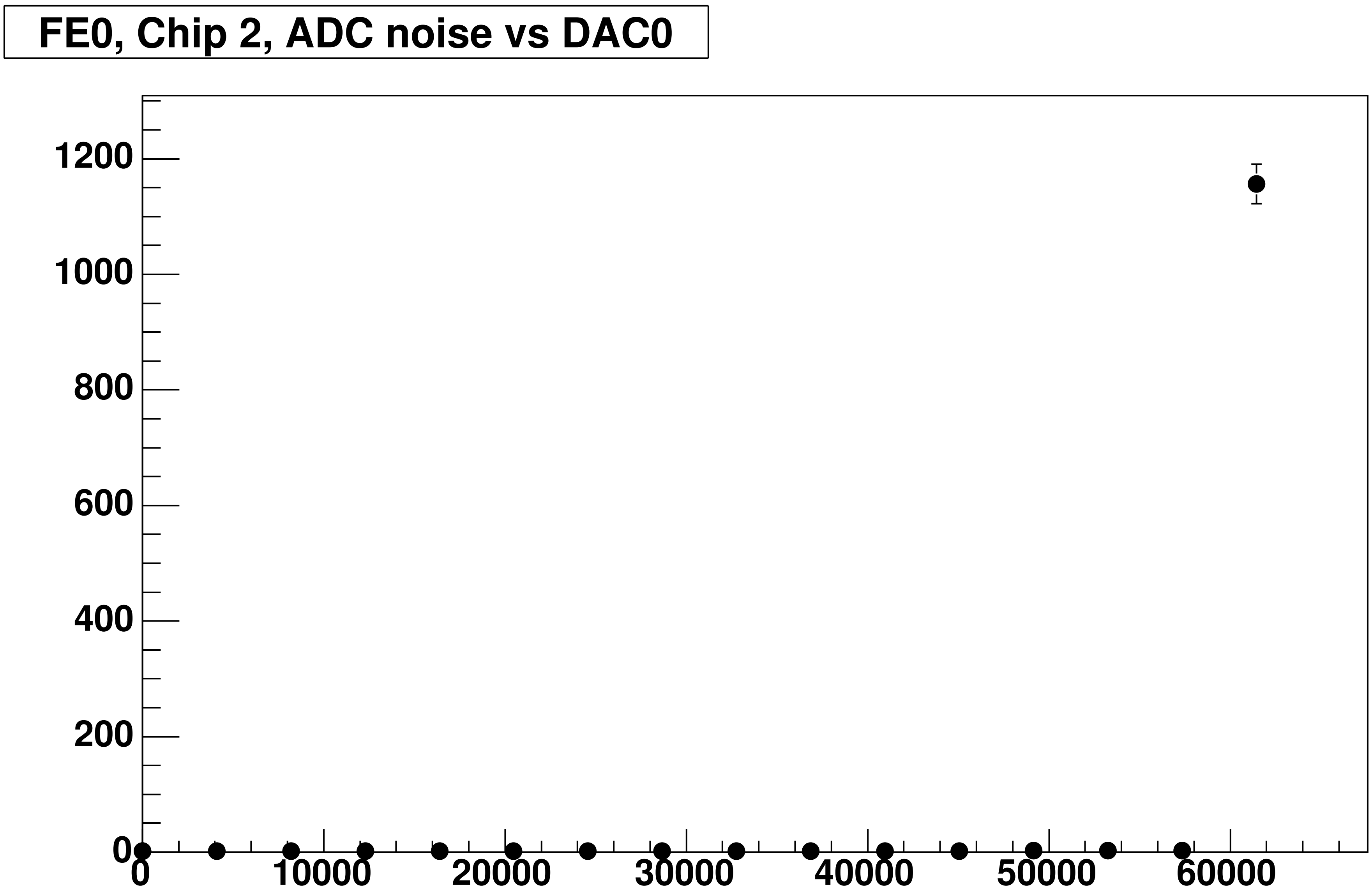

FE0, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

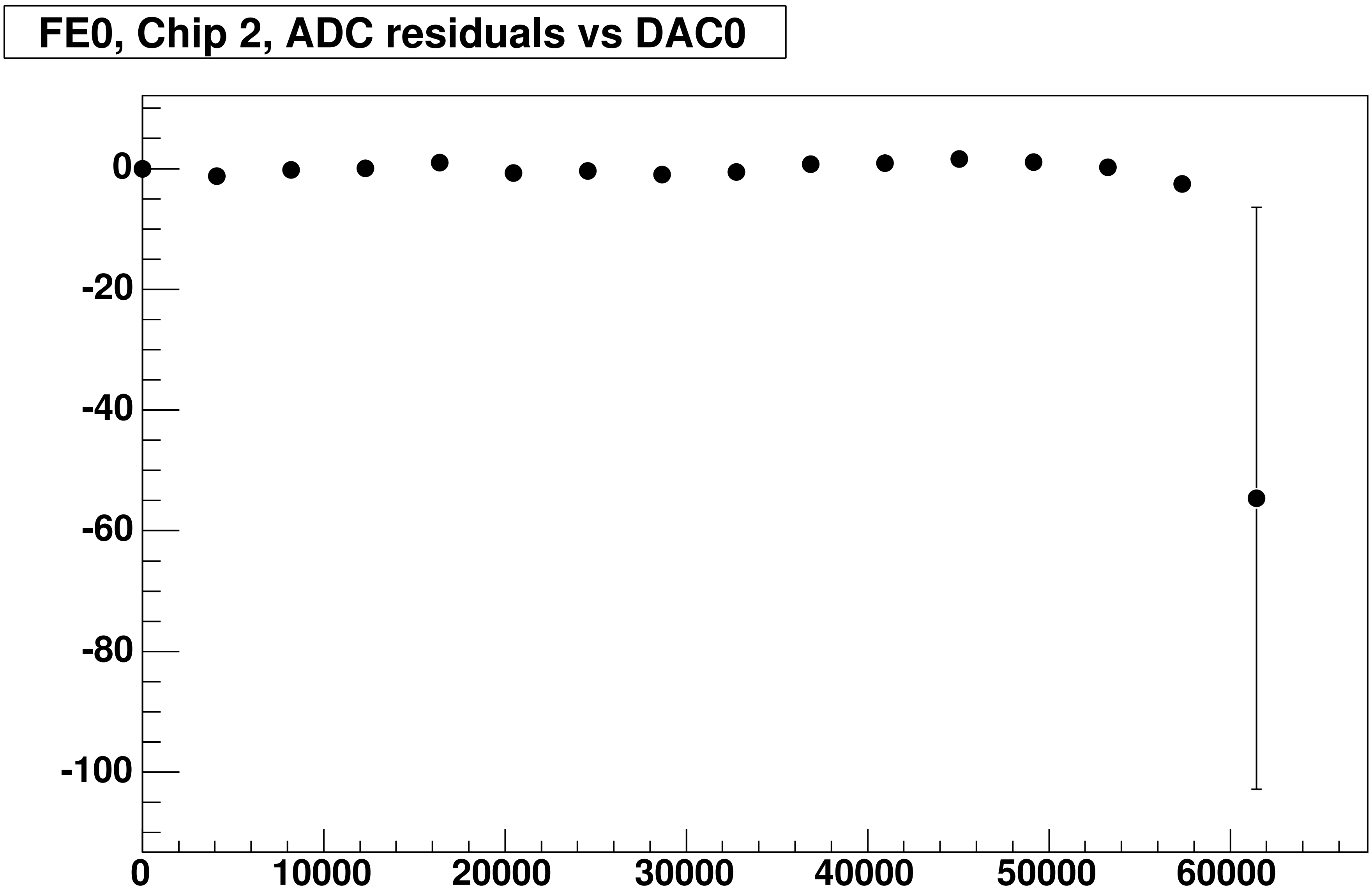


FE0, Chip 1, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

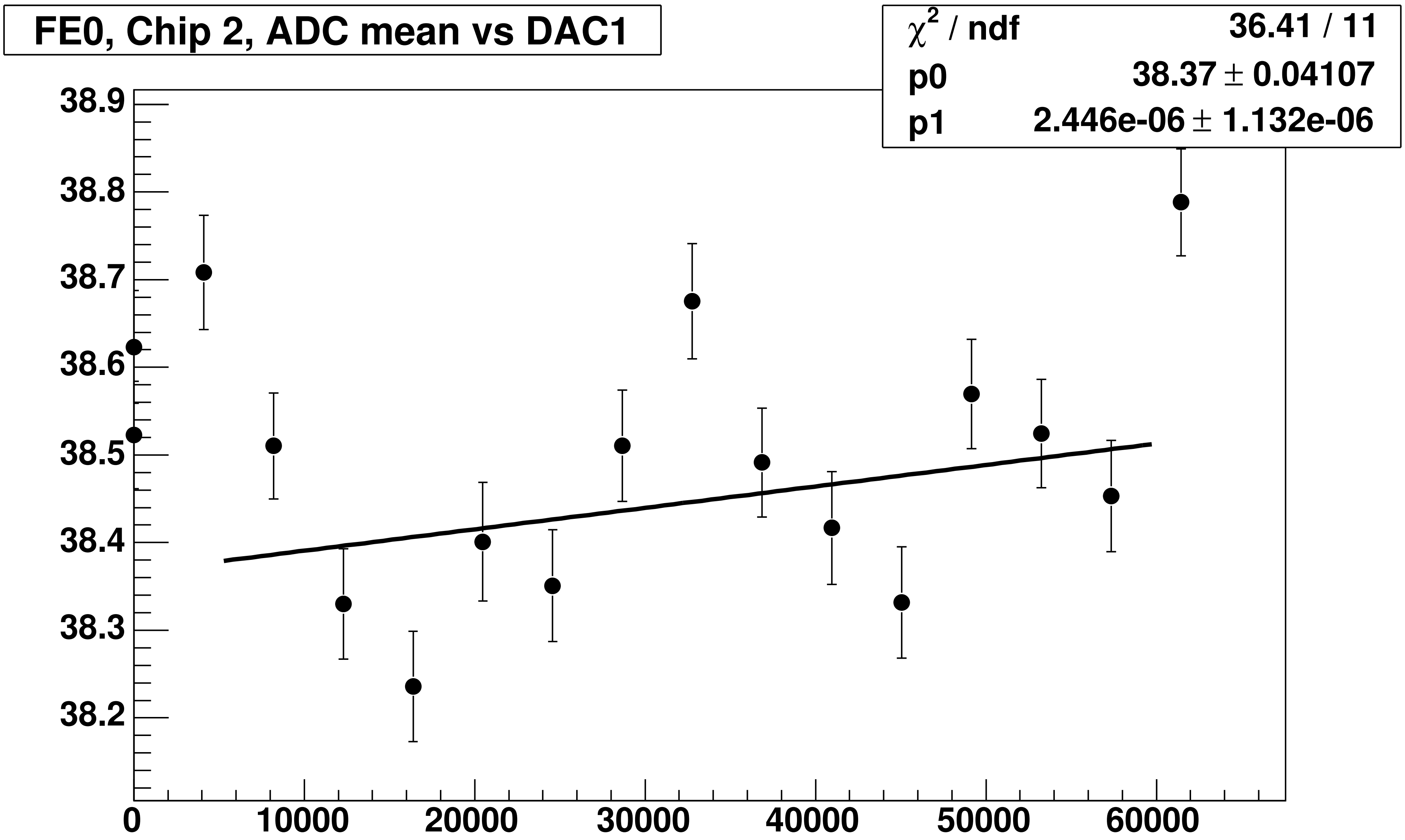


FE0, Chip 2, ADC mean vs DAC0
χ² / ndf 2000 / 11
p0 40.53 ± 0.04211
p1 0.4513 ± 1.371e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

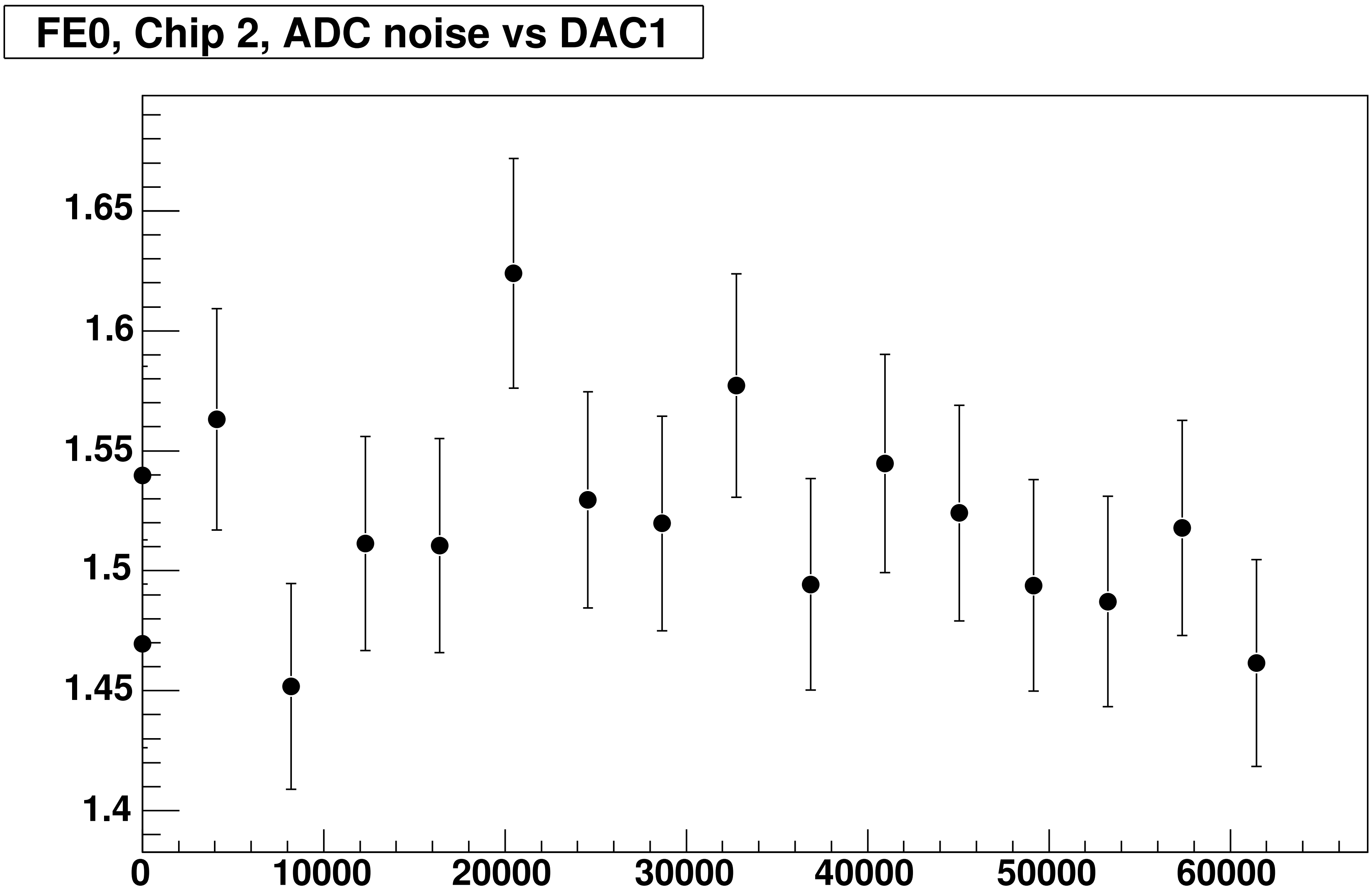

FE0, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

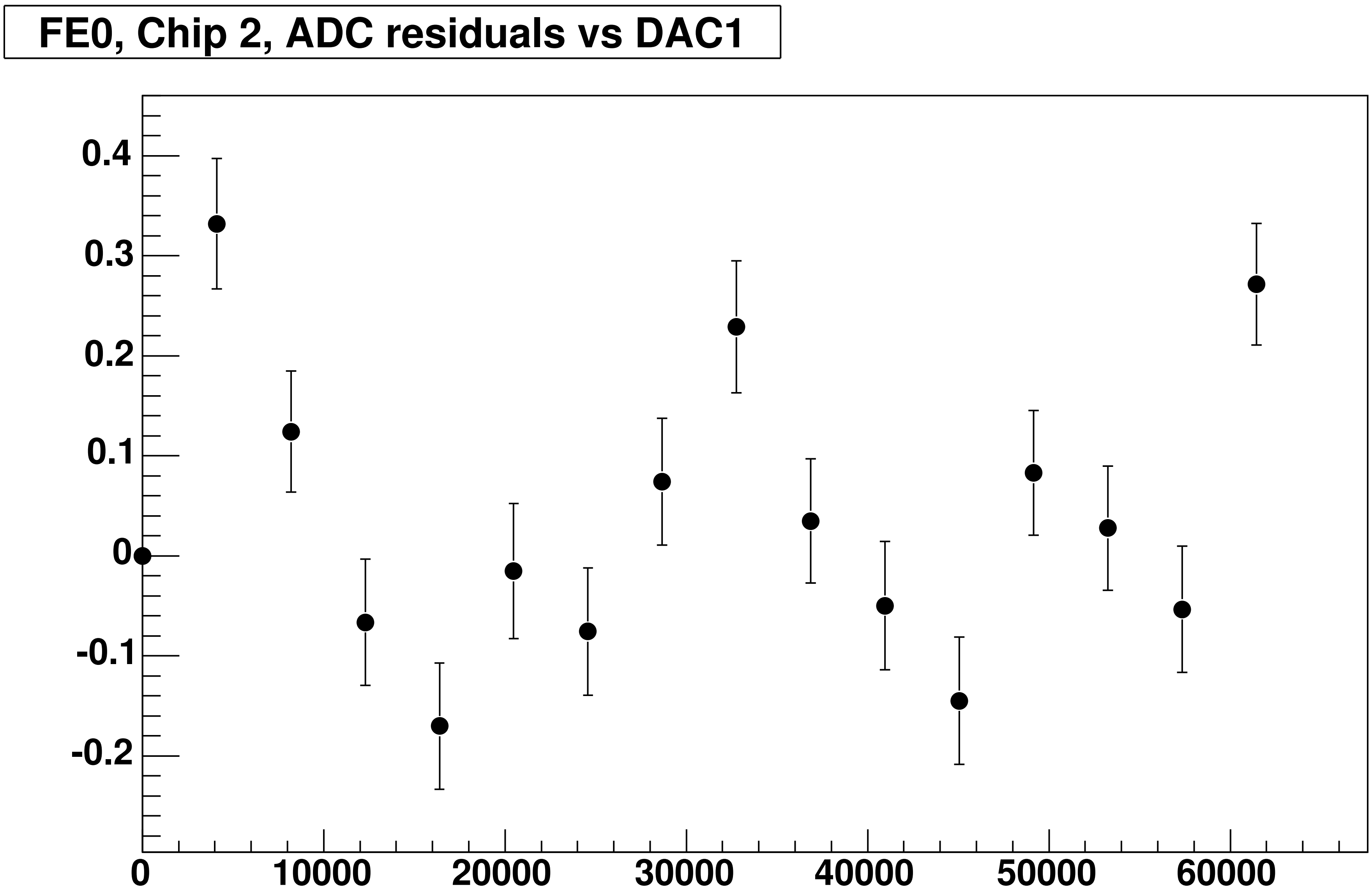


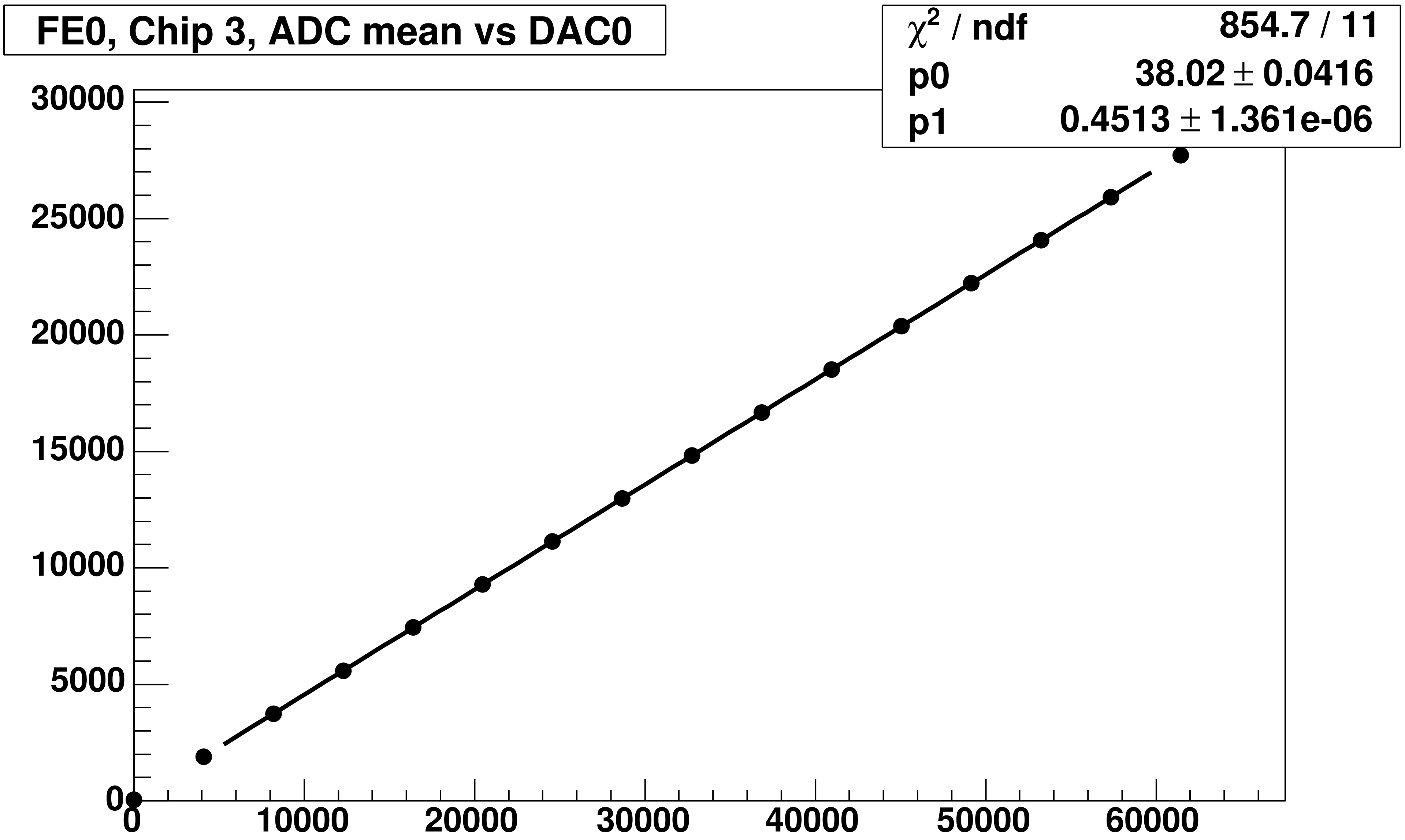
FE0, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

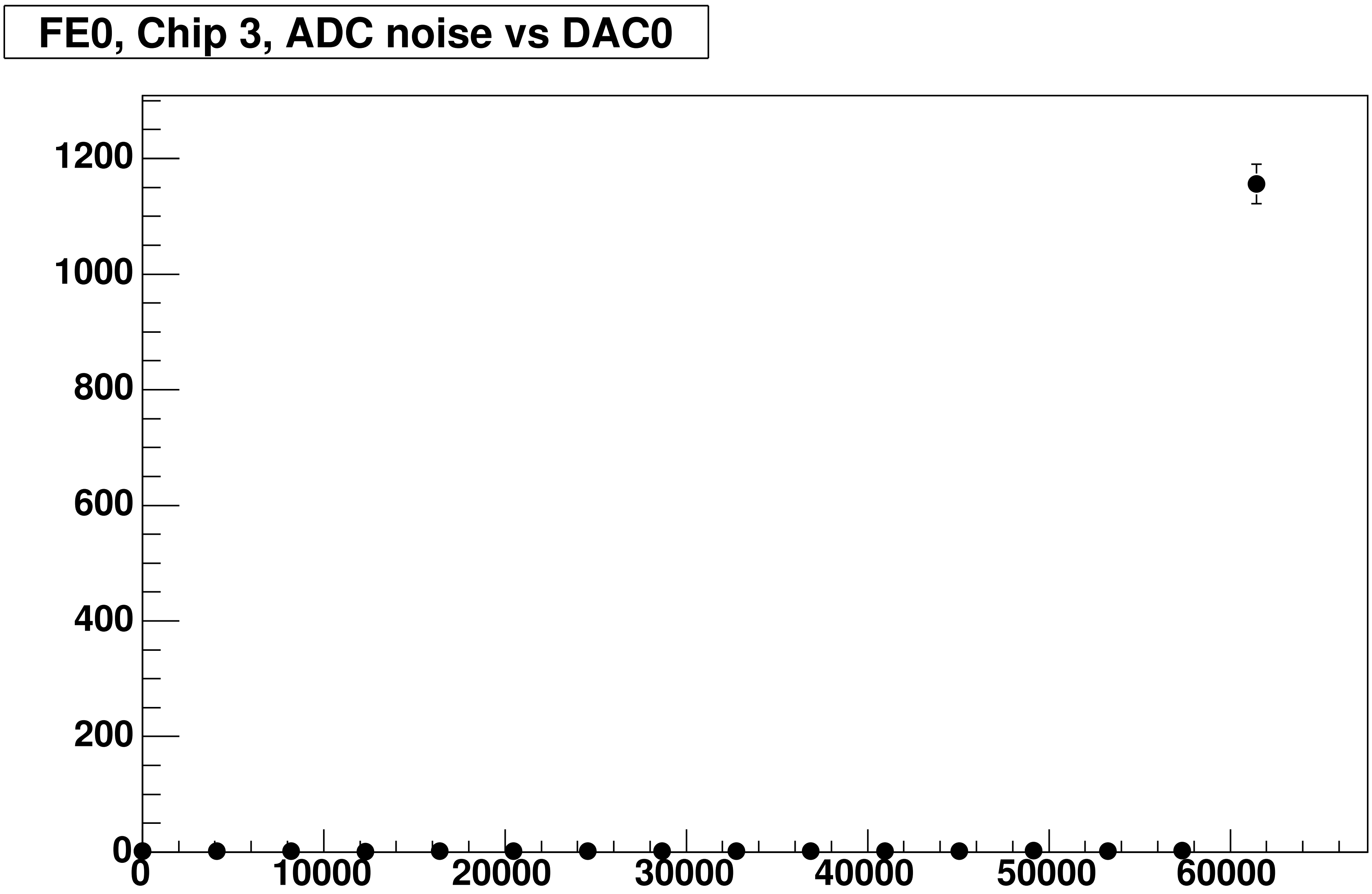


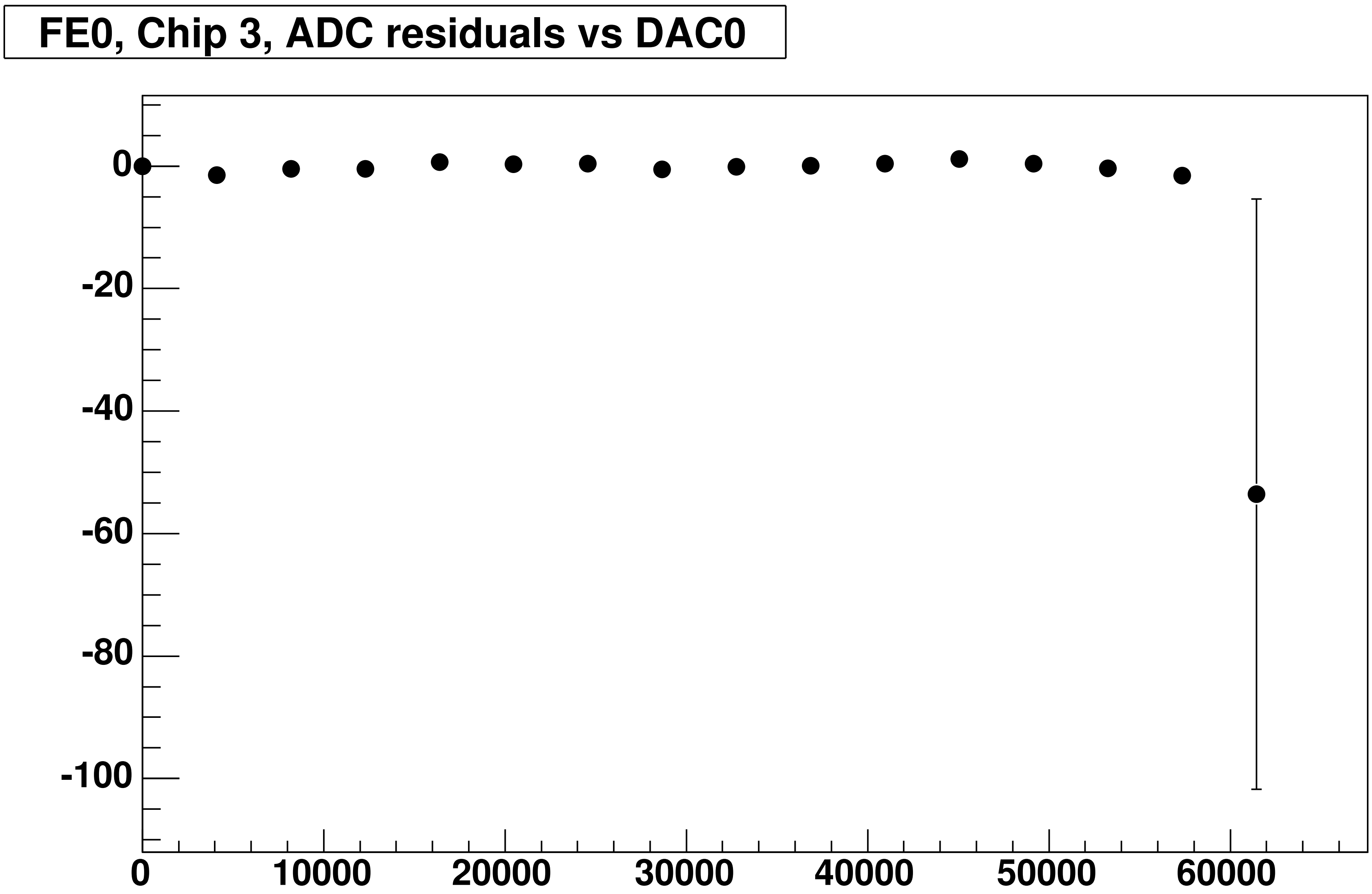
FE0, Chip 2, ADC mean vs DAC1
χ² / ndf 36.41 / 11
p0 38.37 ± 0.04107
p1 2.446e-06 ± 1.132e-06
38.9
38.8
38.7
38.6
38.5
38.4
38.3
38.2
0
10000
20000
30000
40000
50000
60000

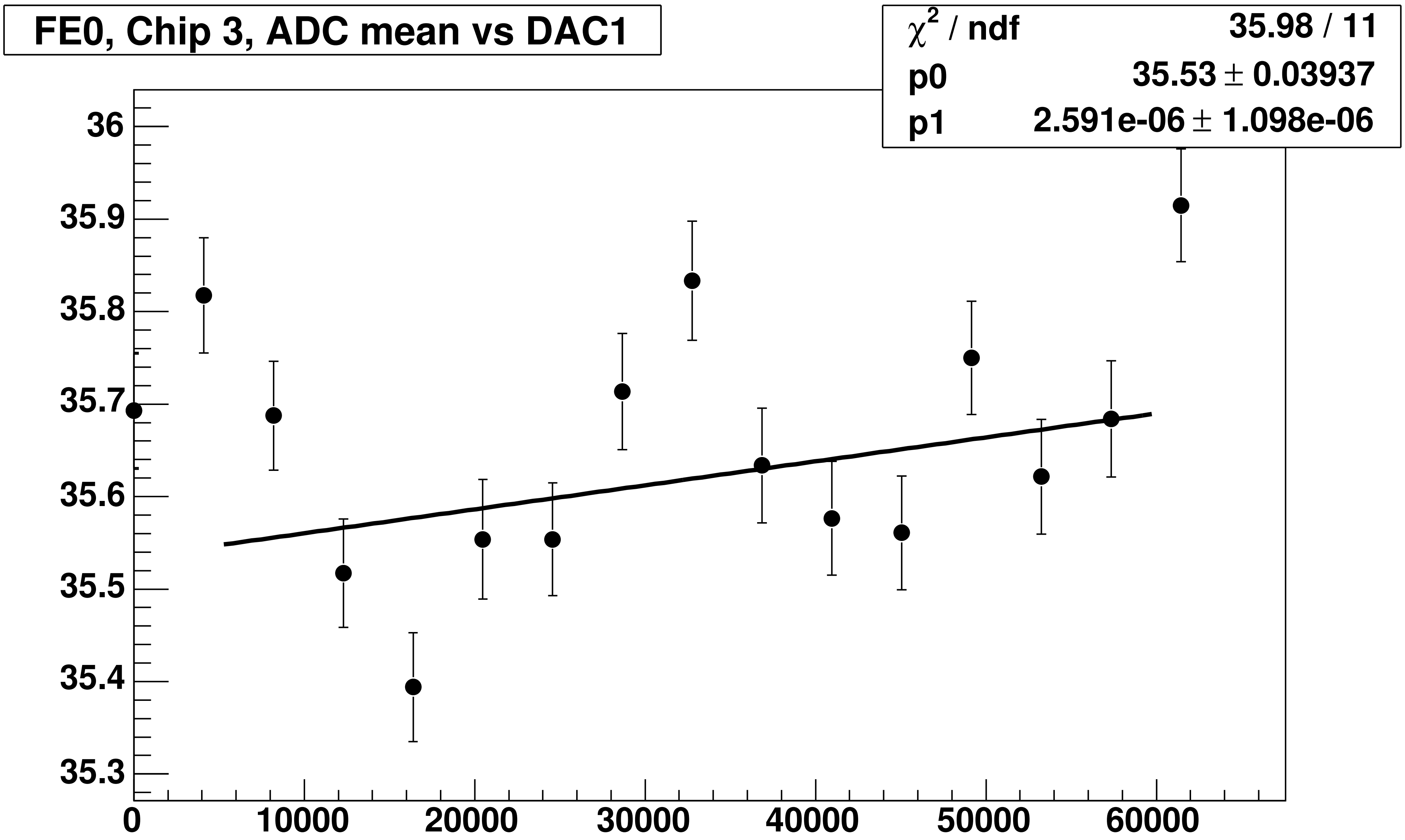

FE0, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


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

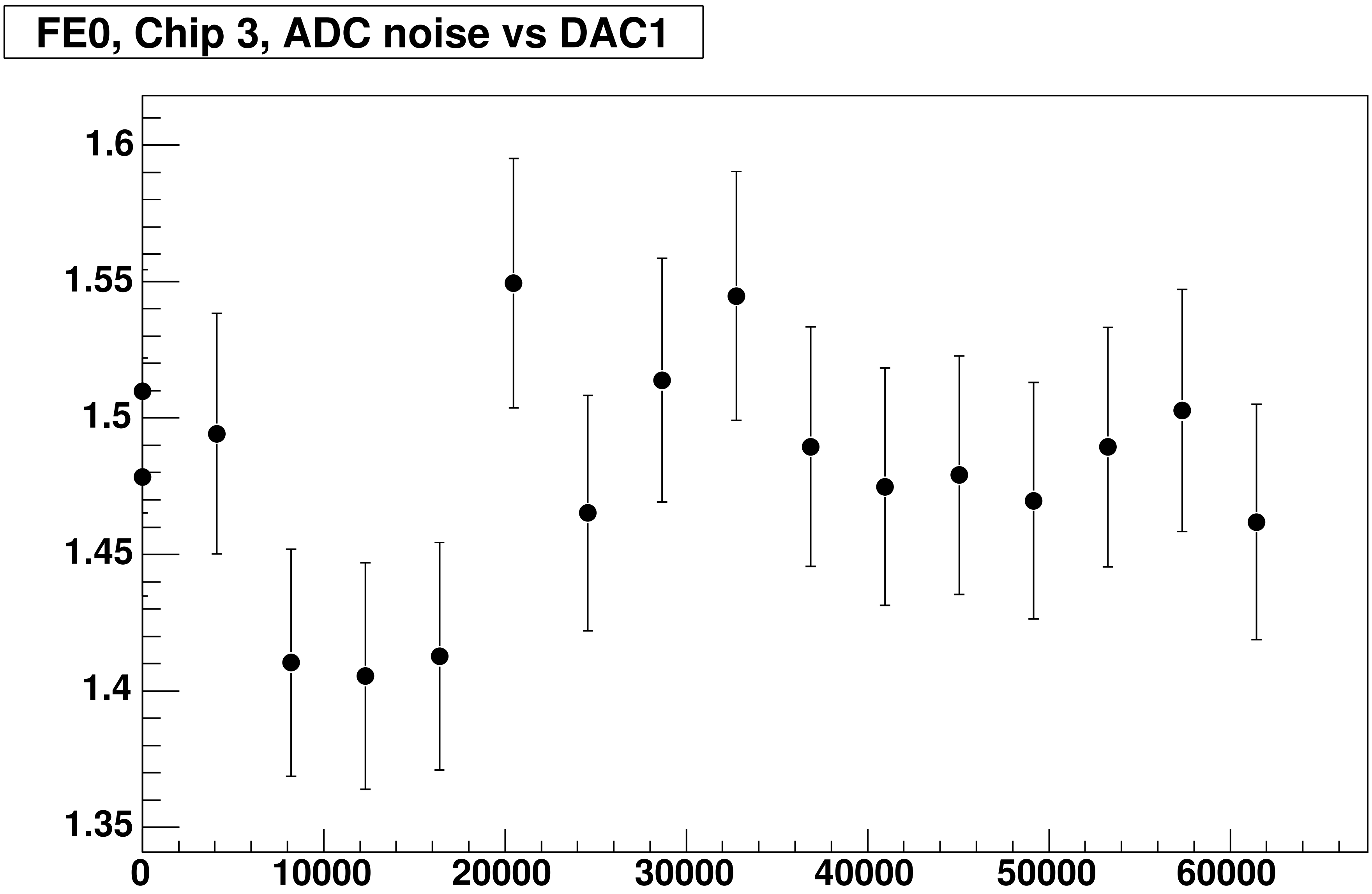

FE0, Chip 3, ADC mean vs DAC0
χ2 / ndf 854.7 / 11
p0 38.02 ± 0.0416
p1 0.4513 ± 1.361e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

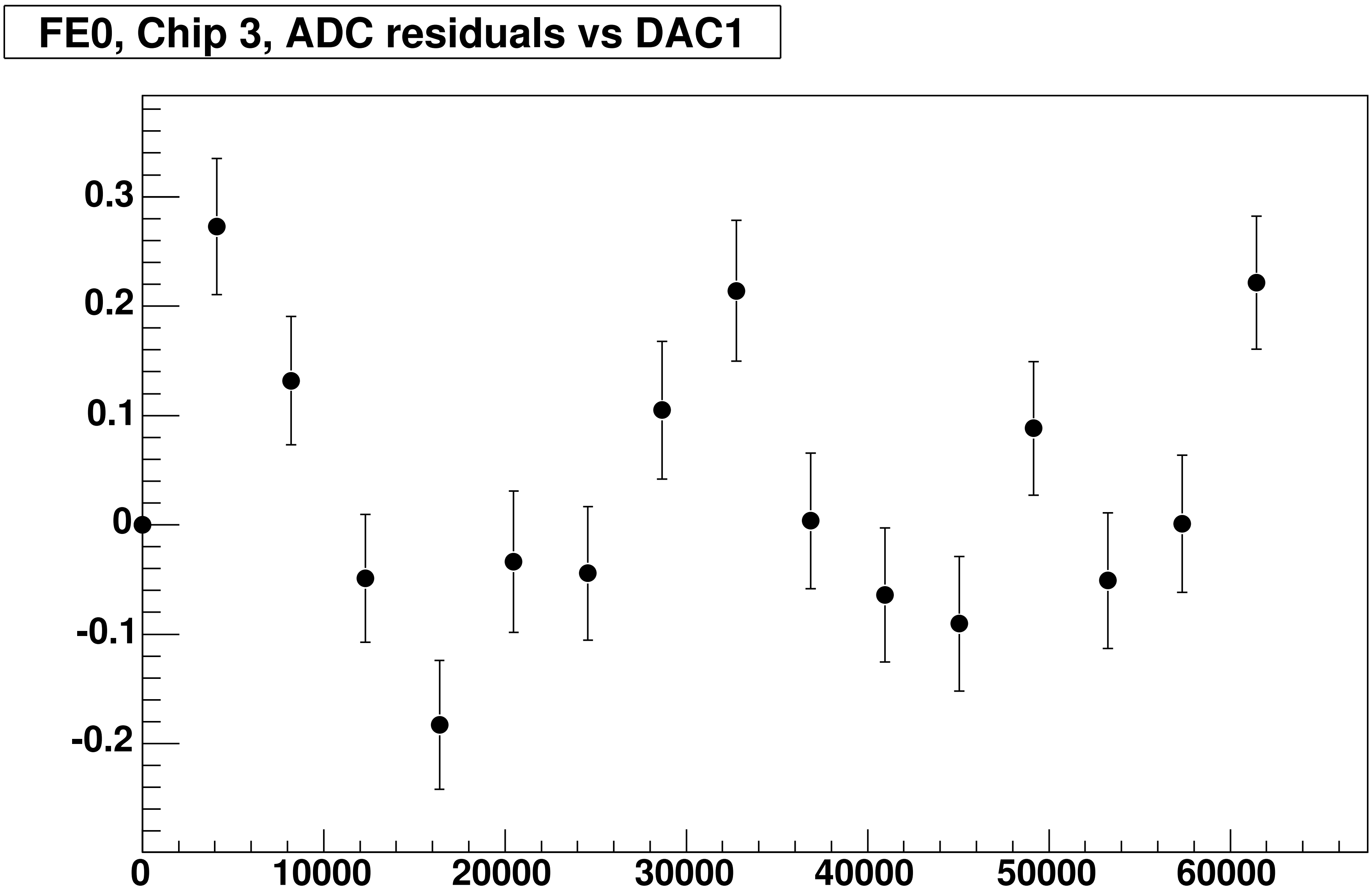

FE0, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

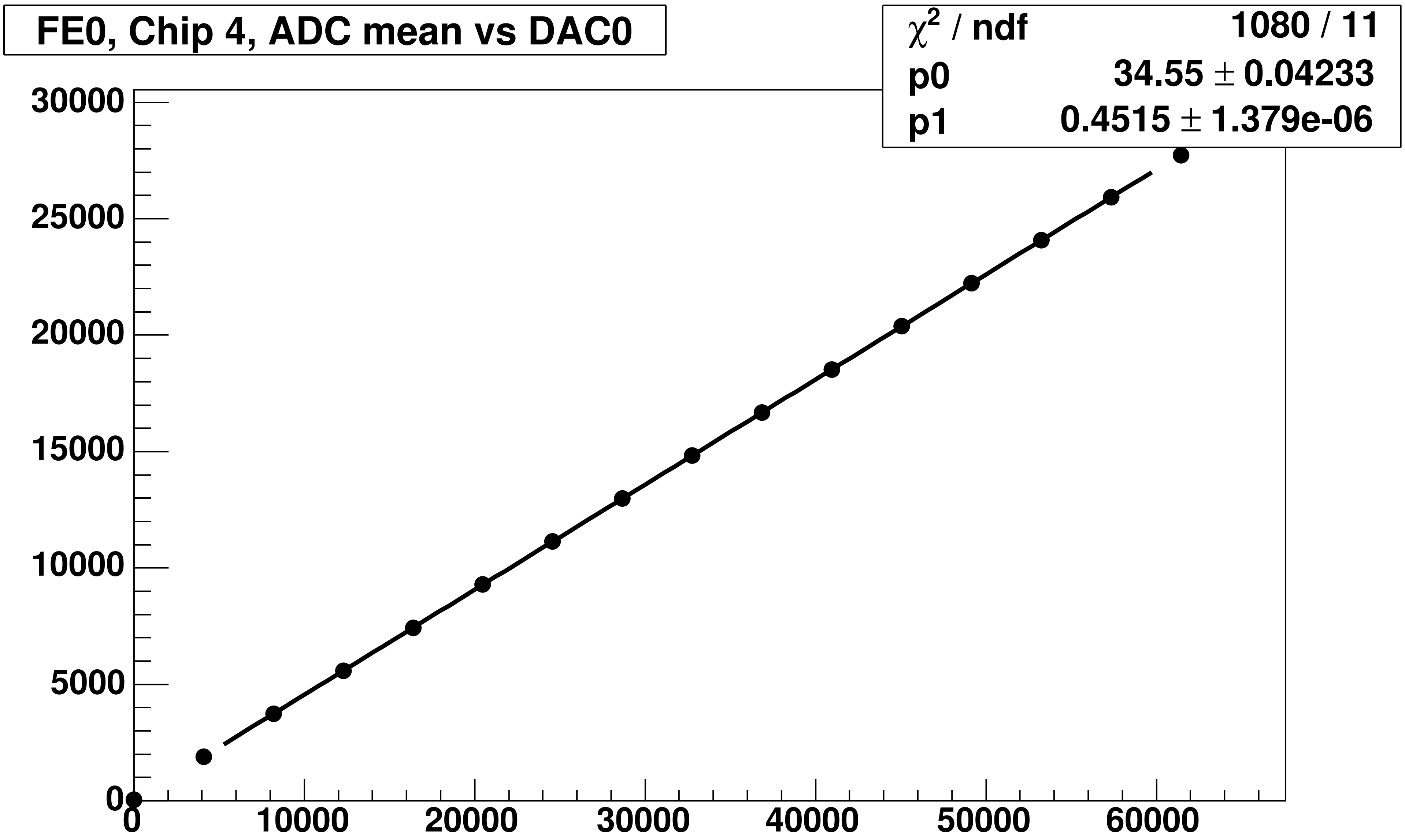


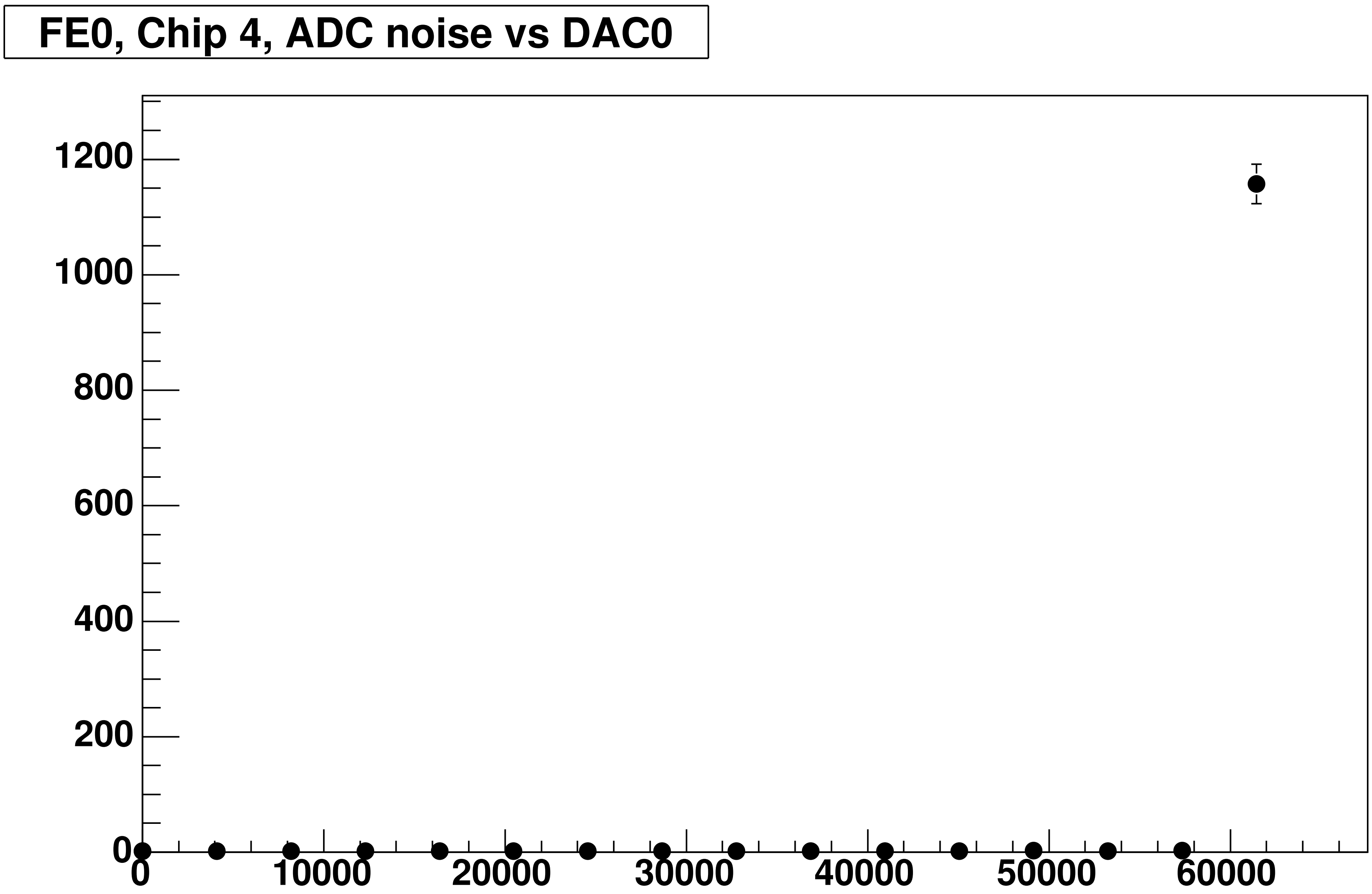
FE0, Chip 3, ADC mean vs DAC1
χ2 / ndf 35.98 / 11
p0 35.53 ± 0.03937
p1 2.591e-06 ± 1.098e-06
36
35.9
35.8
35.7
35.6
35.5
35.4
35.3
0
10000
20000
30000
40000
50000
60000


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

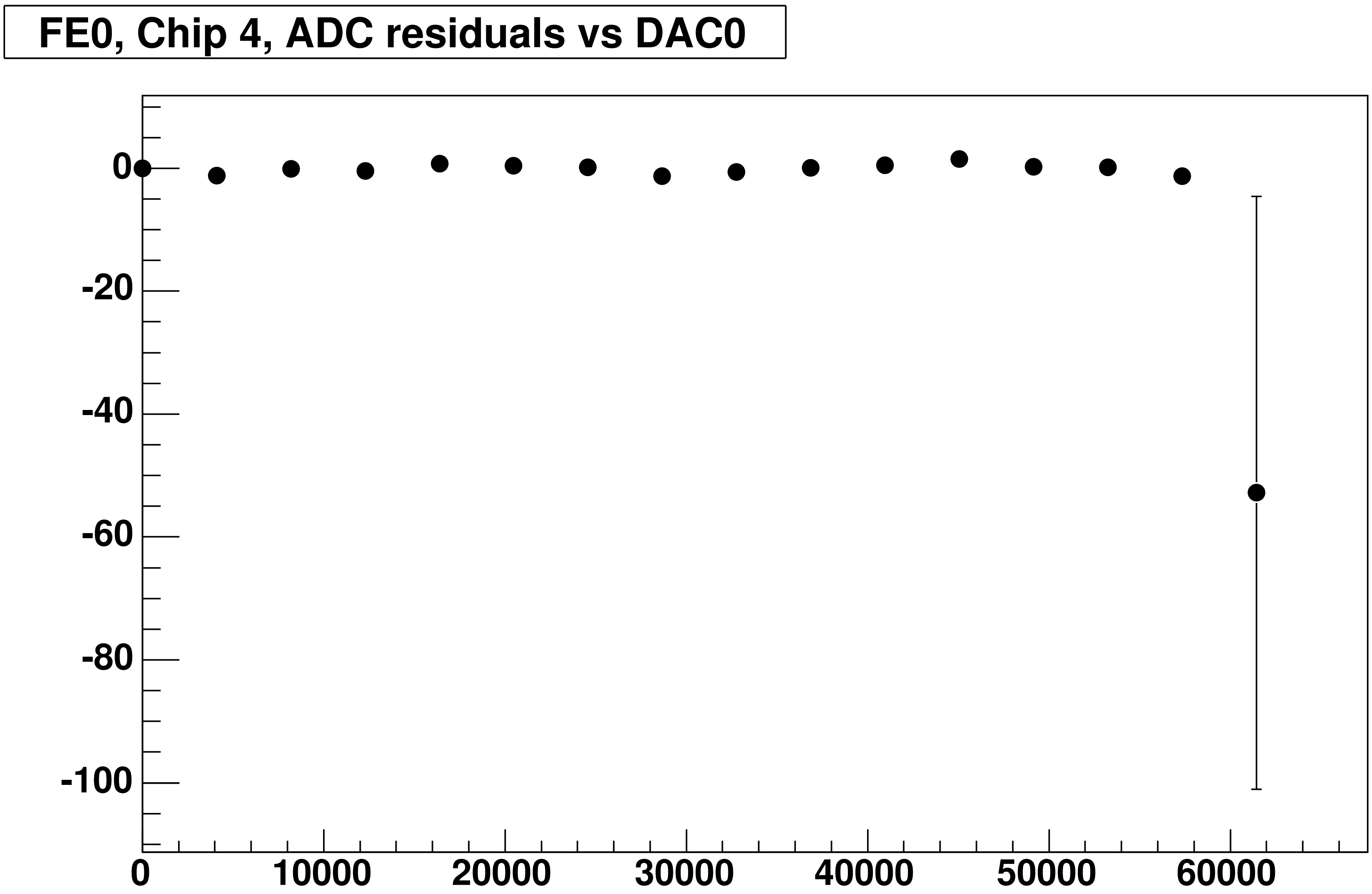


FE0, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

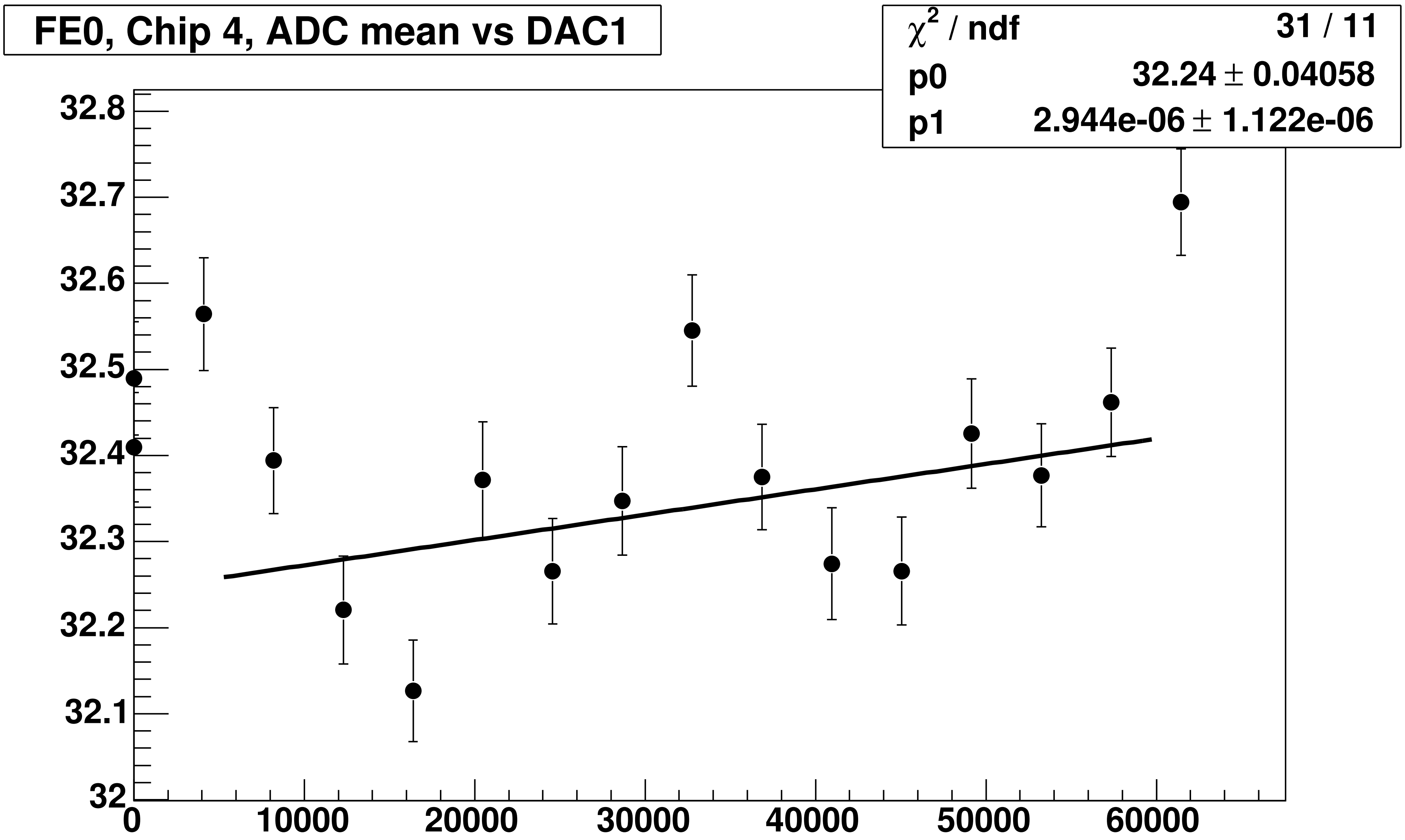

FE0, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1080 / 11
p0 34.55 ± 0.04233
p1 0.4515 ± 1.379e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



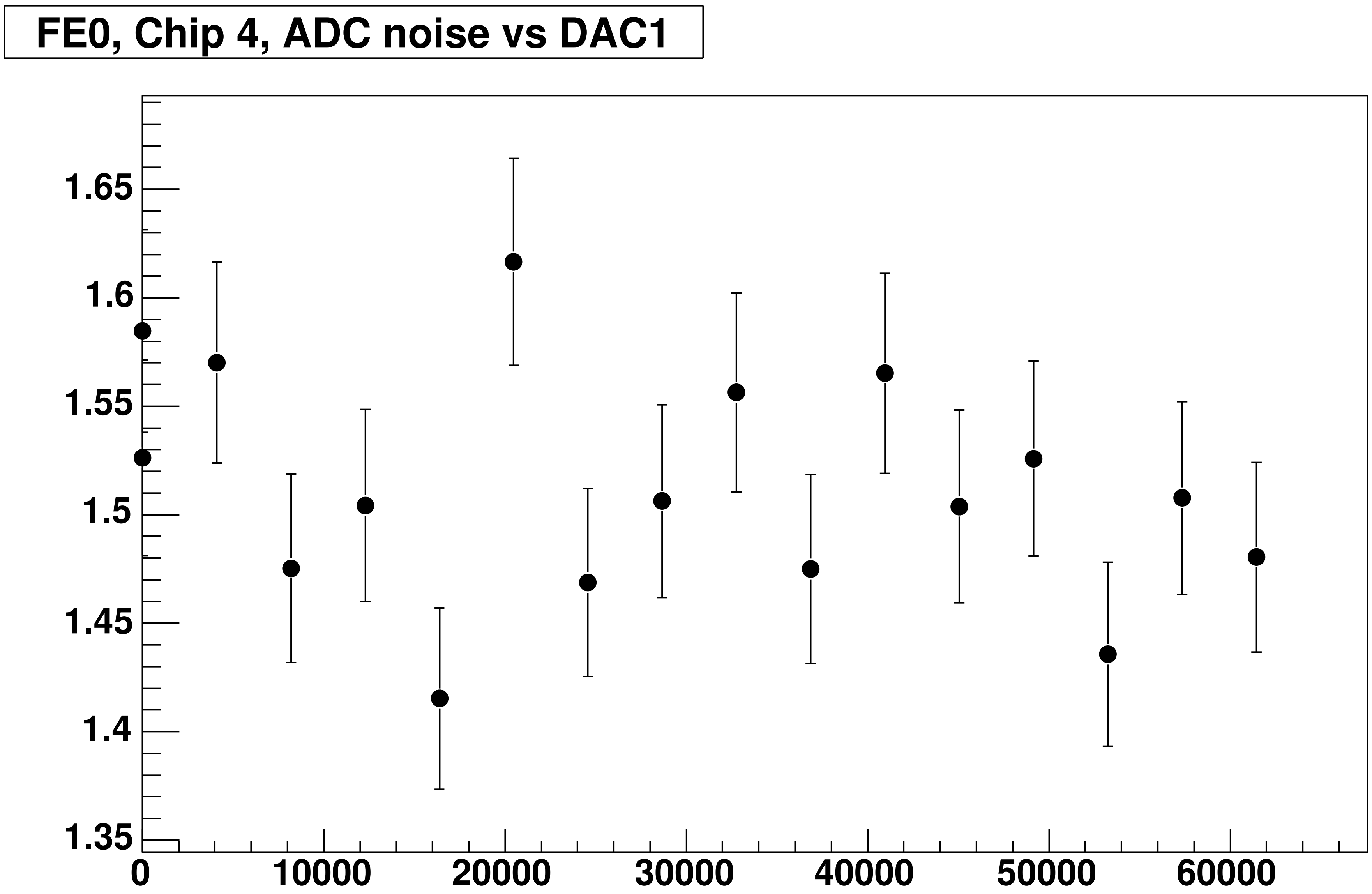
FE0, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

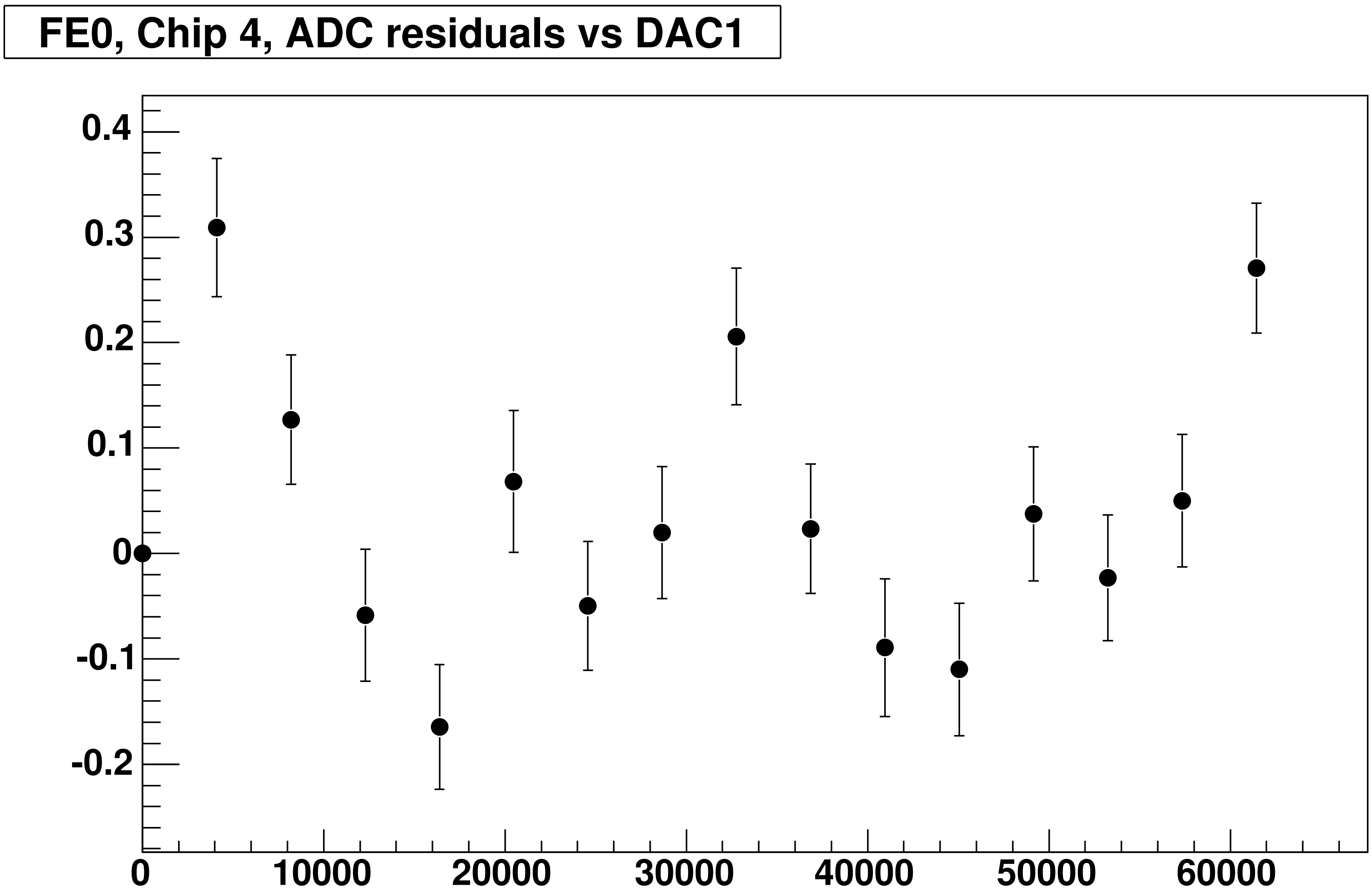


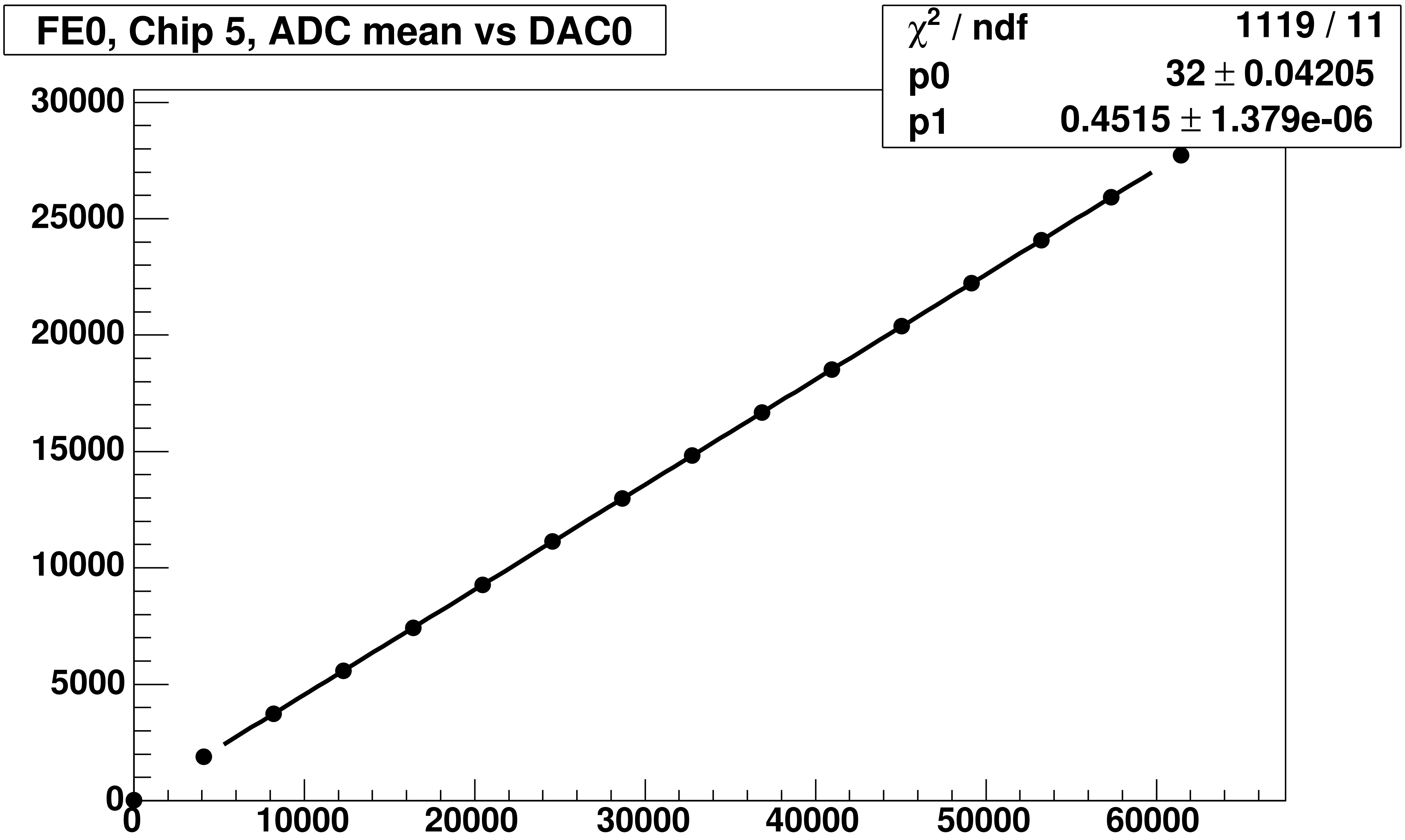
FE0, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

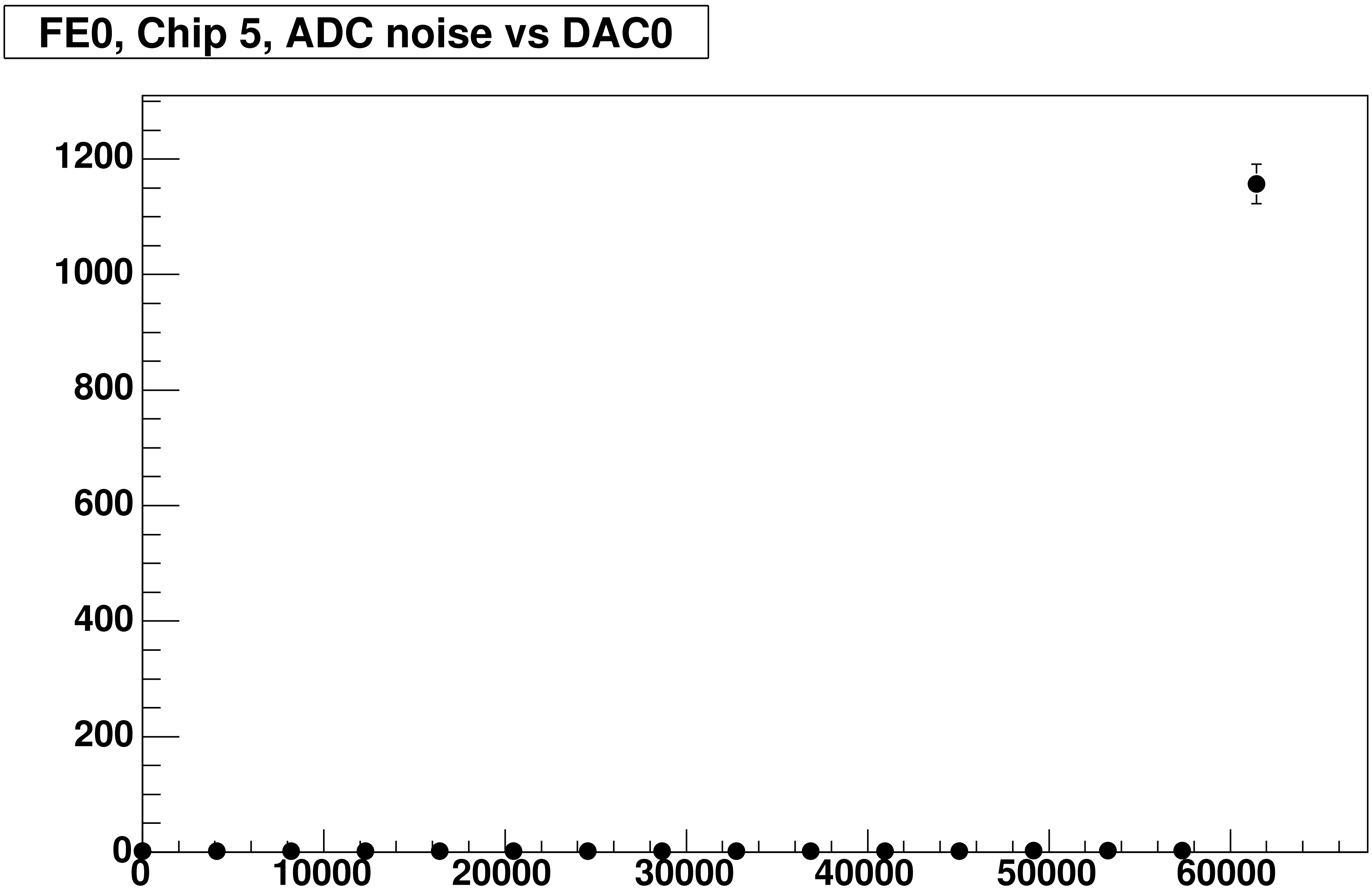


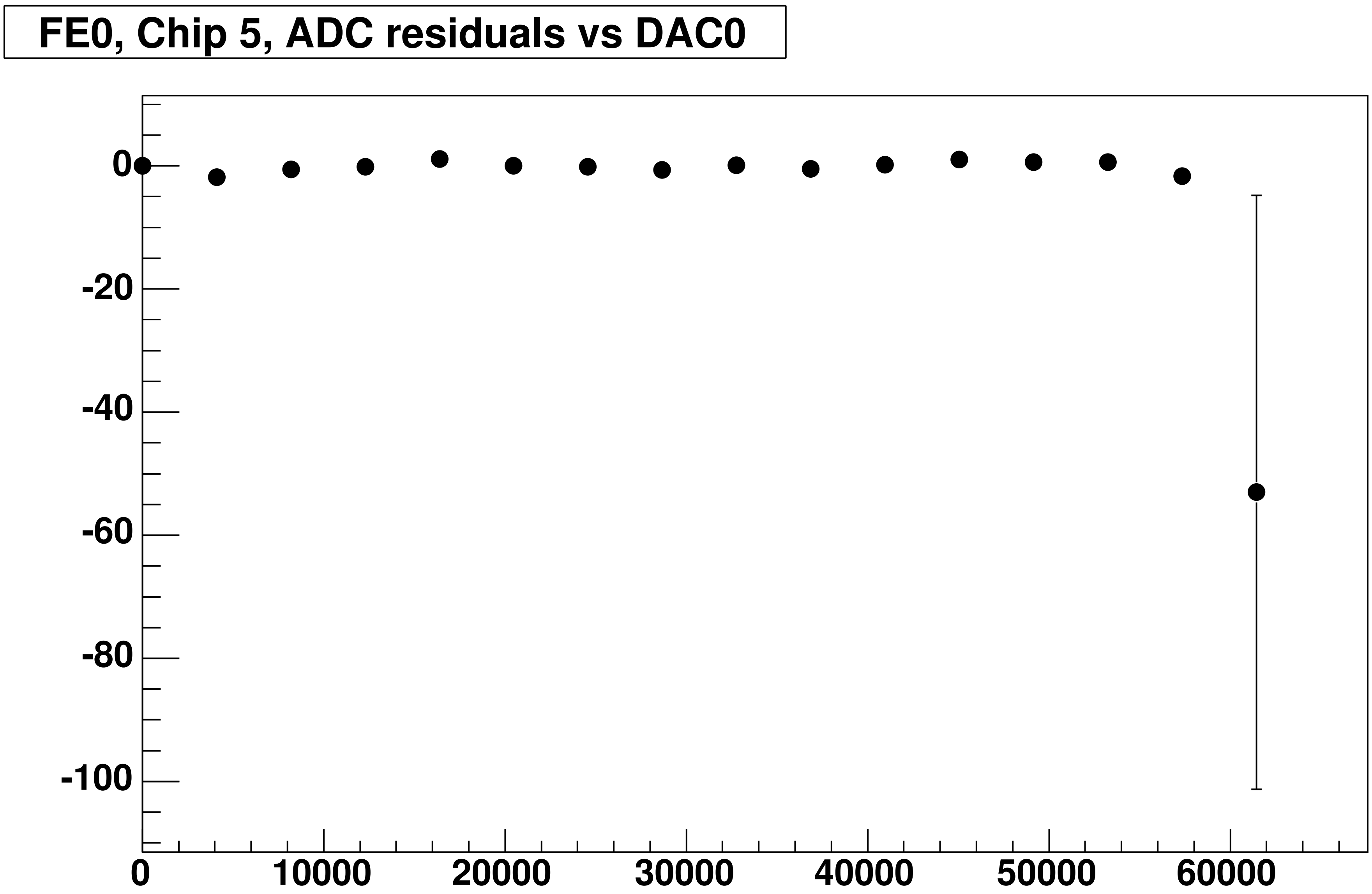
FE0, Chip 4, ADC mean vs DAC1
χ^2 / ndf 31 / 11
p0 32.24 ± 0.04058
p1 2.944e-06 ± 1.122e-06
32.8
32.7
32.6
32.5
32.4
32.3
32.2
32.1
32
0
10000
20000
30000
40000
50000
60000

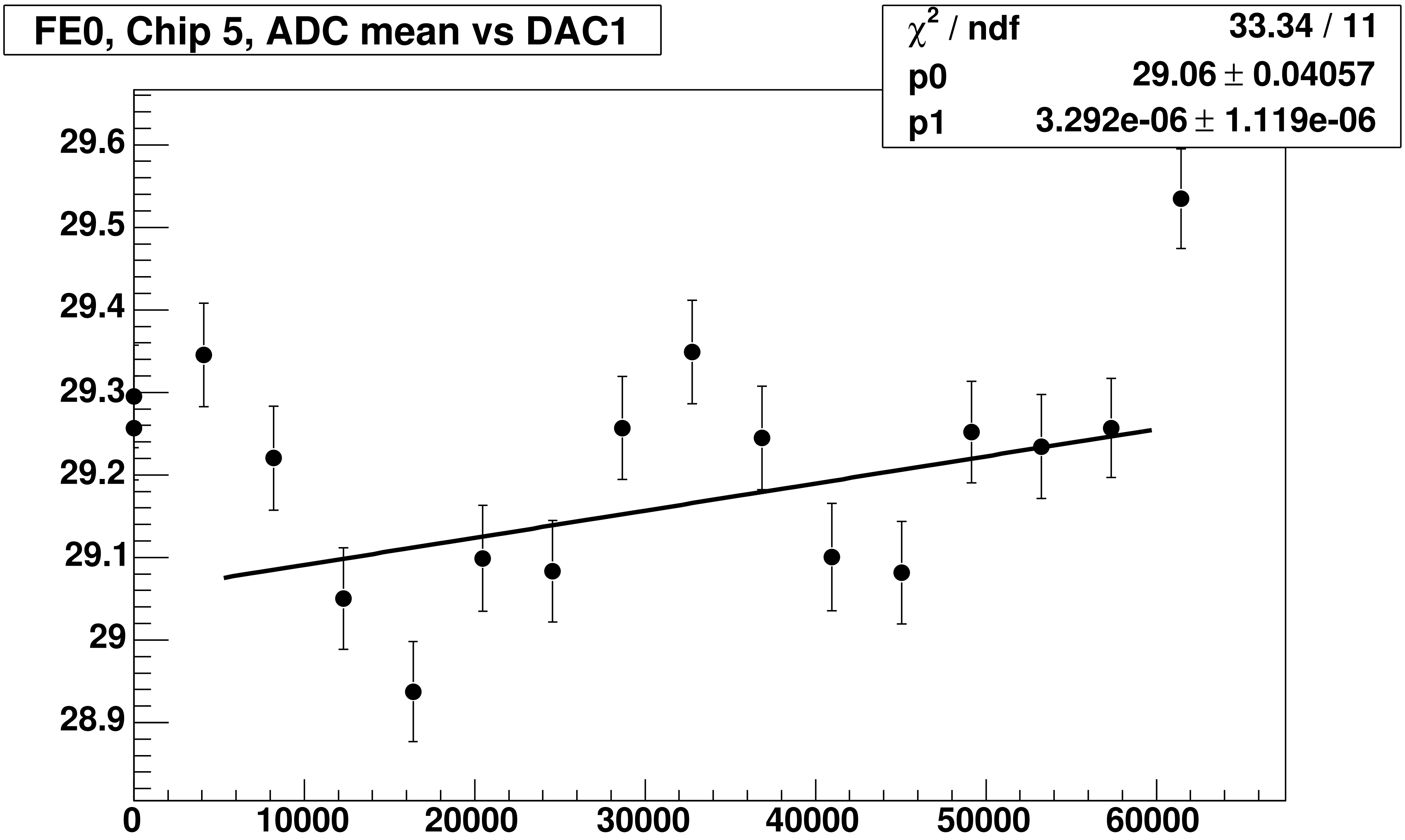

FE0, Chip 4, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

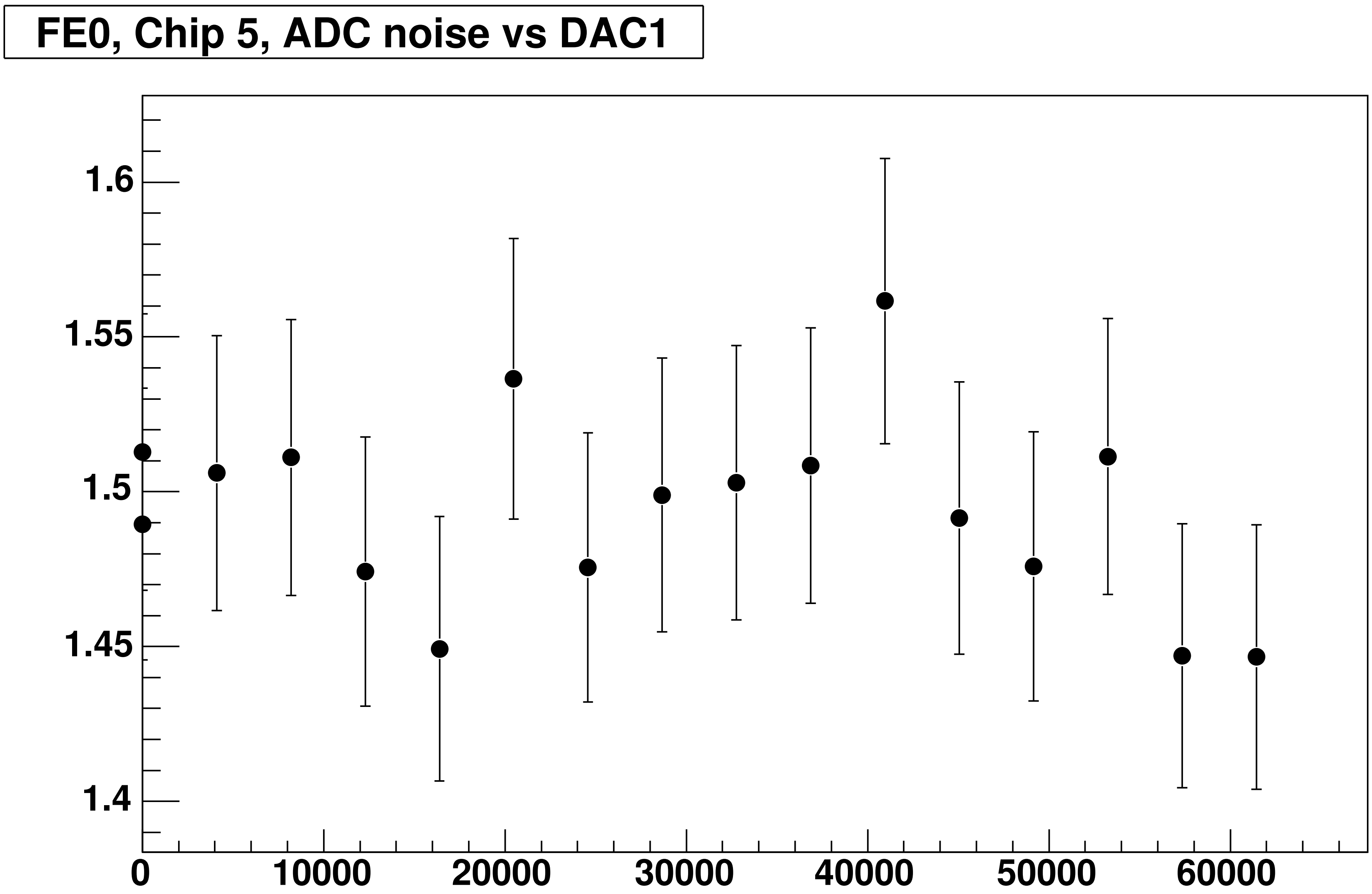

FE0, Chip 4, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

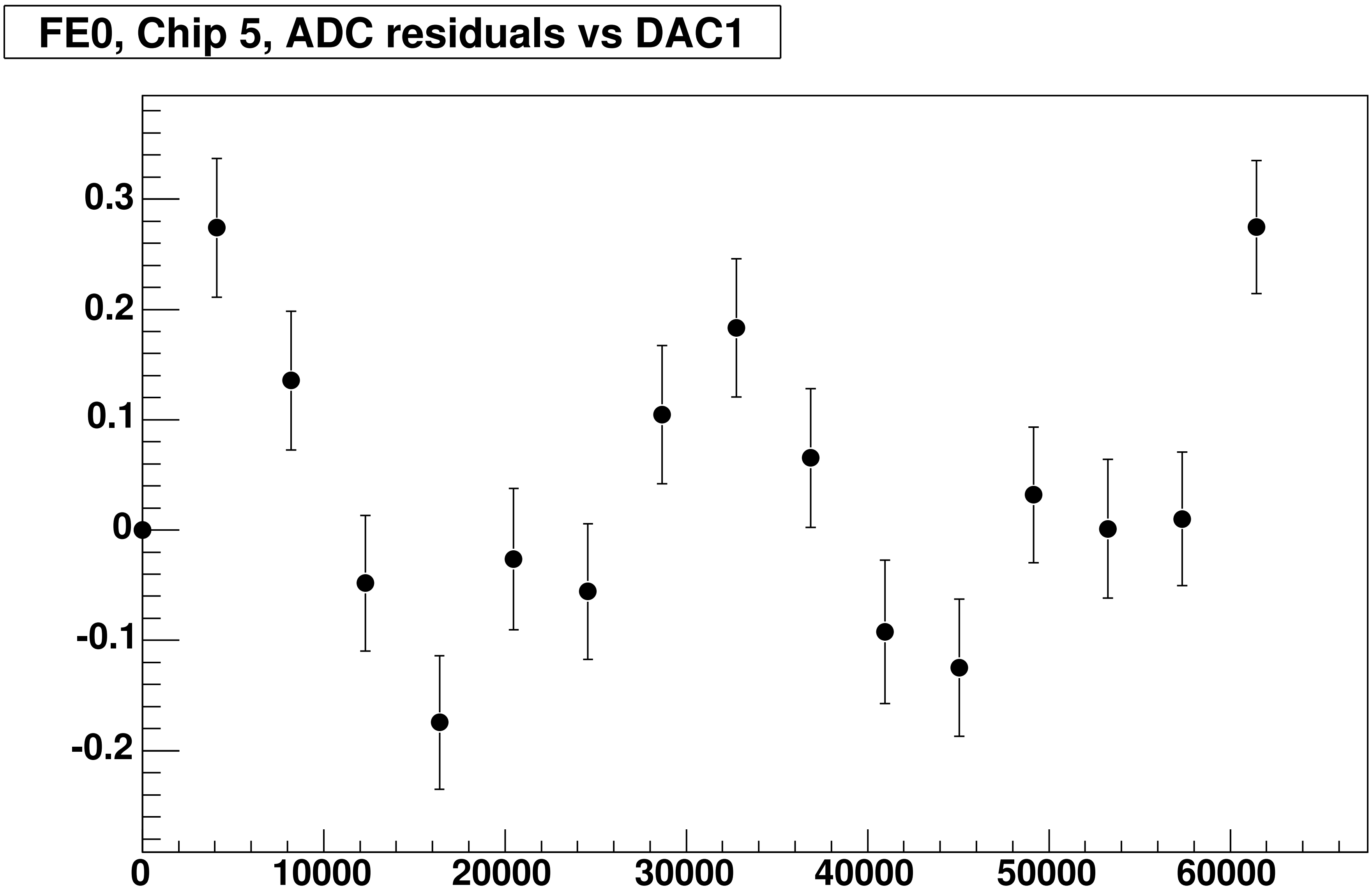

FE0, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1119 / 11
p0 32 ± 0.04205
p1 0.4515 ± 1.379e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

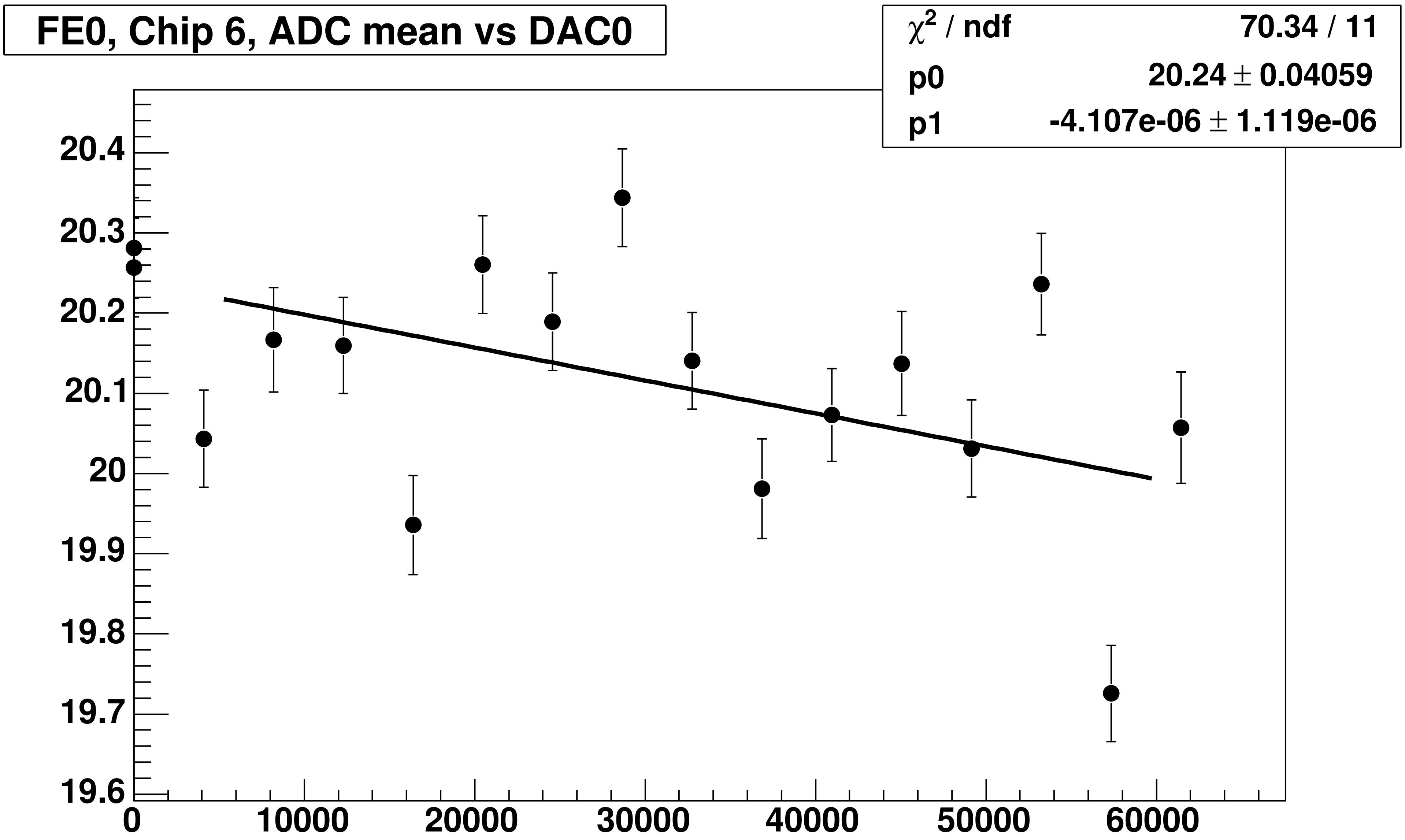

FE0, Chip 5, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000


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

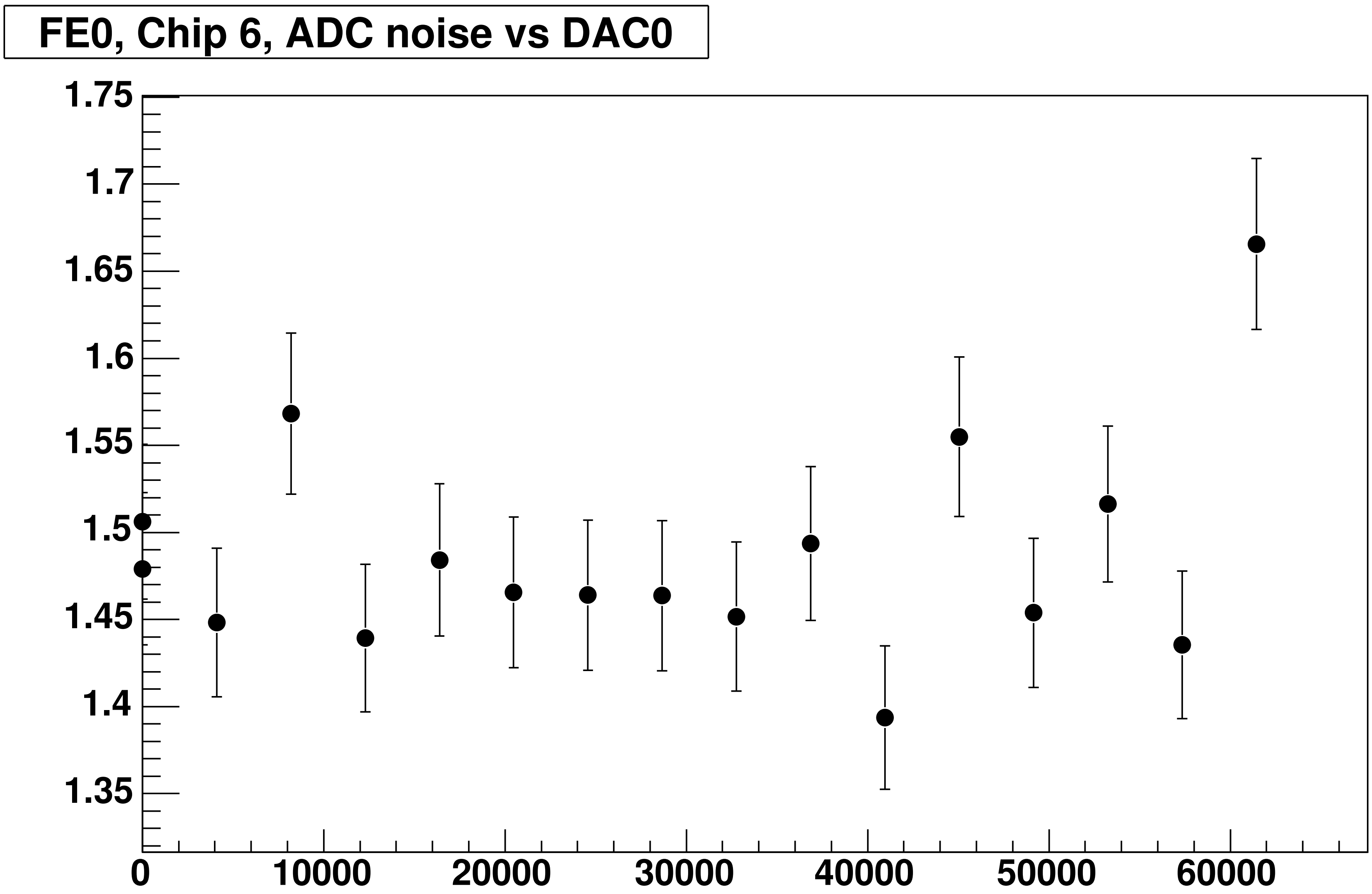

FE0, Chip 5, ADC mean vs DAC1
χ² / ndf 33.34 / 11
p0 29.06 ± 0.04057
p1 3.292e-06 ± 1.119e-06
29.6
29.5
29.4
29.3
29.2
29.1
29
28.9
0
10000
20000
30000
40000
50000
60000


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

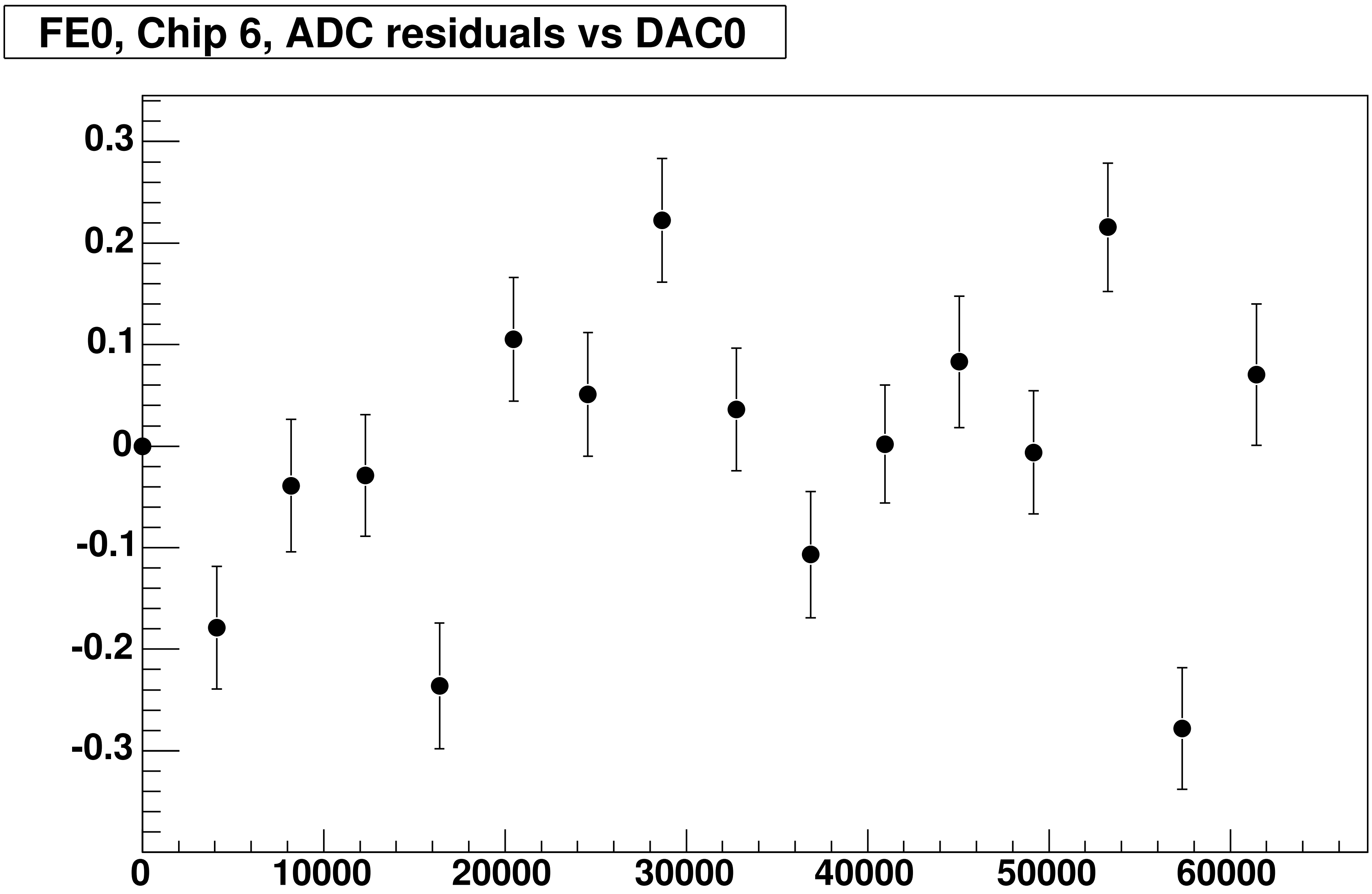

FE0, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



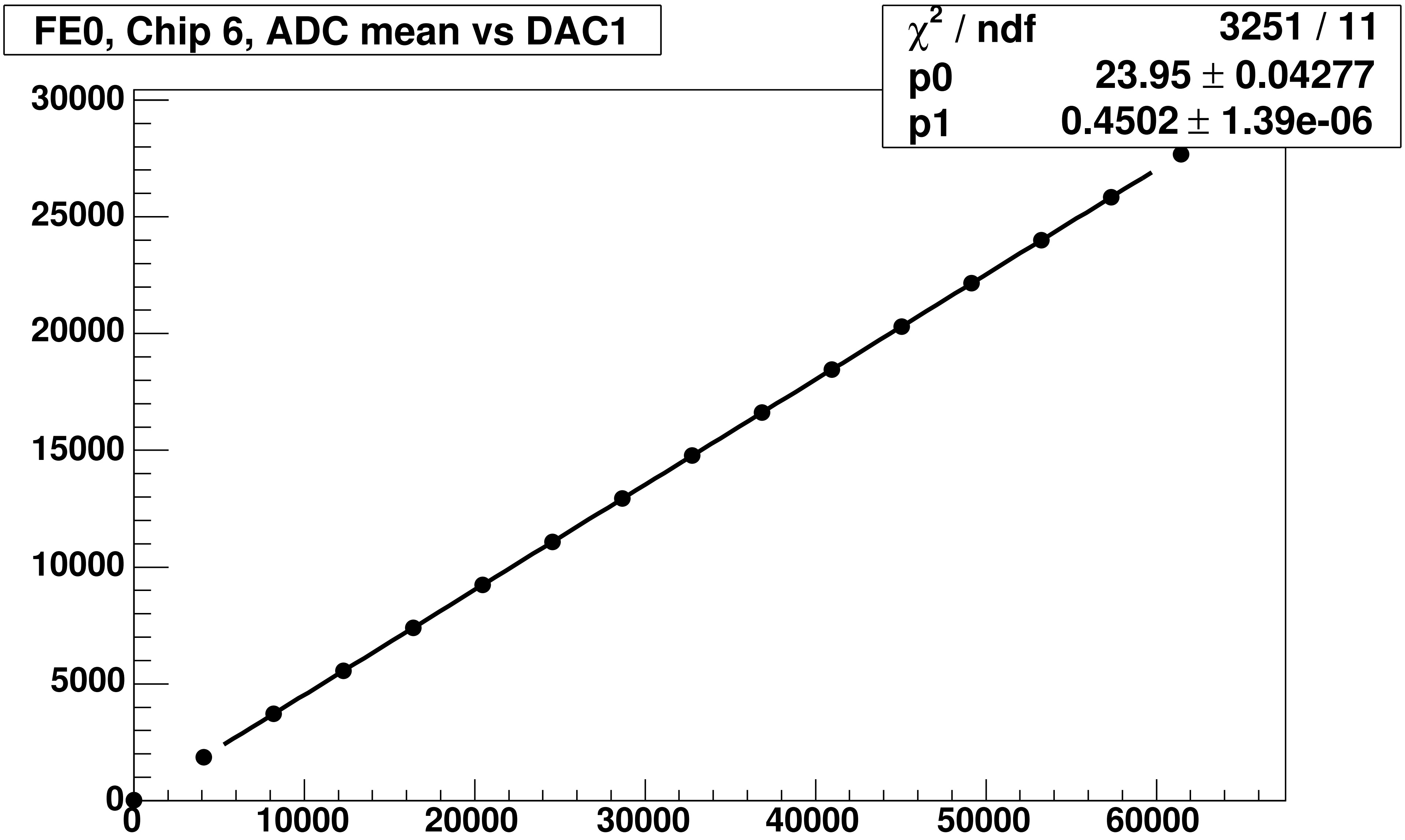
FE0, Chip 6, ADC mean vs DAC0
χ^2 / ndf 70.34 / 11
p0 20.24 ± 0.04059
p1 -4.107e-06 ± 1.119e-06
20.4
20.3
20.2
20.1
20
19.9
19.8
19.7
19.6
0
10000
20000
30000
40000
50000
60000



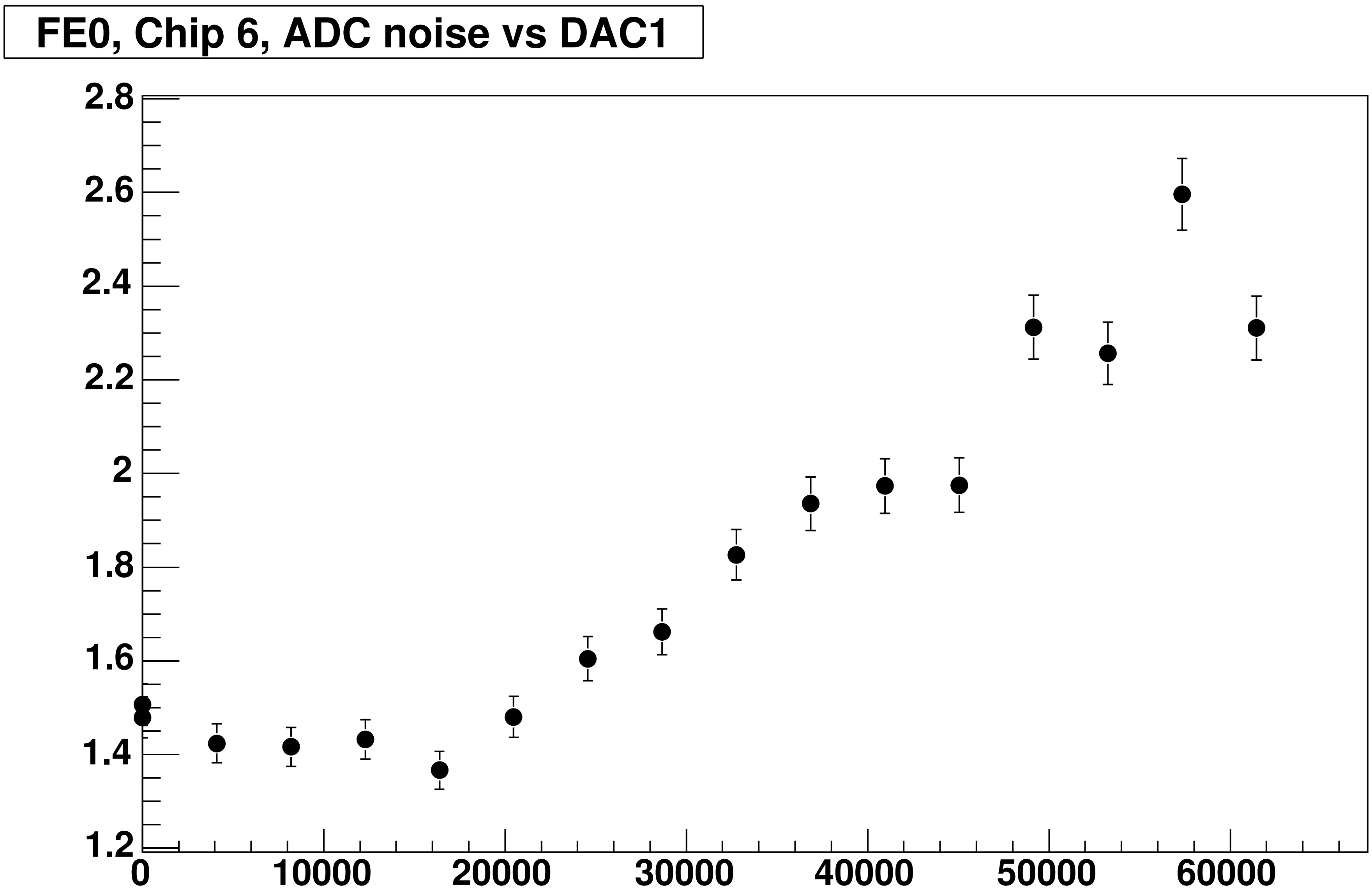
FE0, Chip 6, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



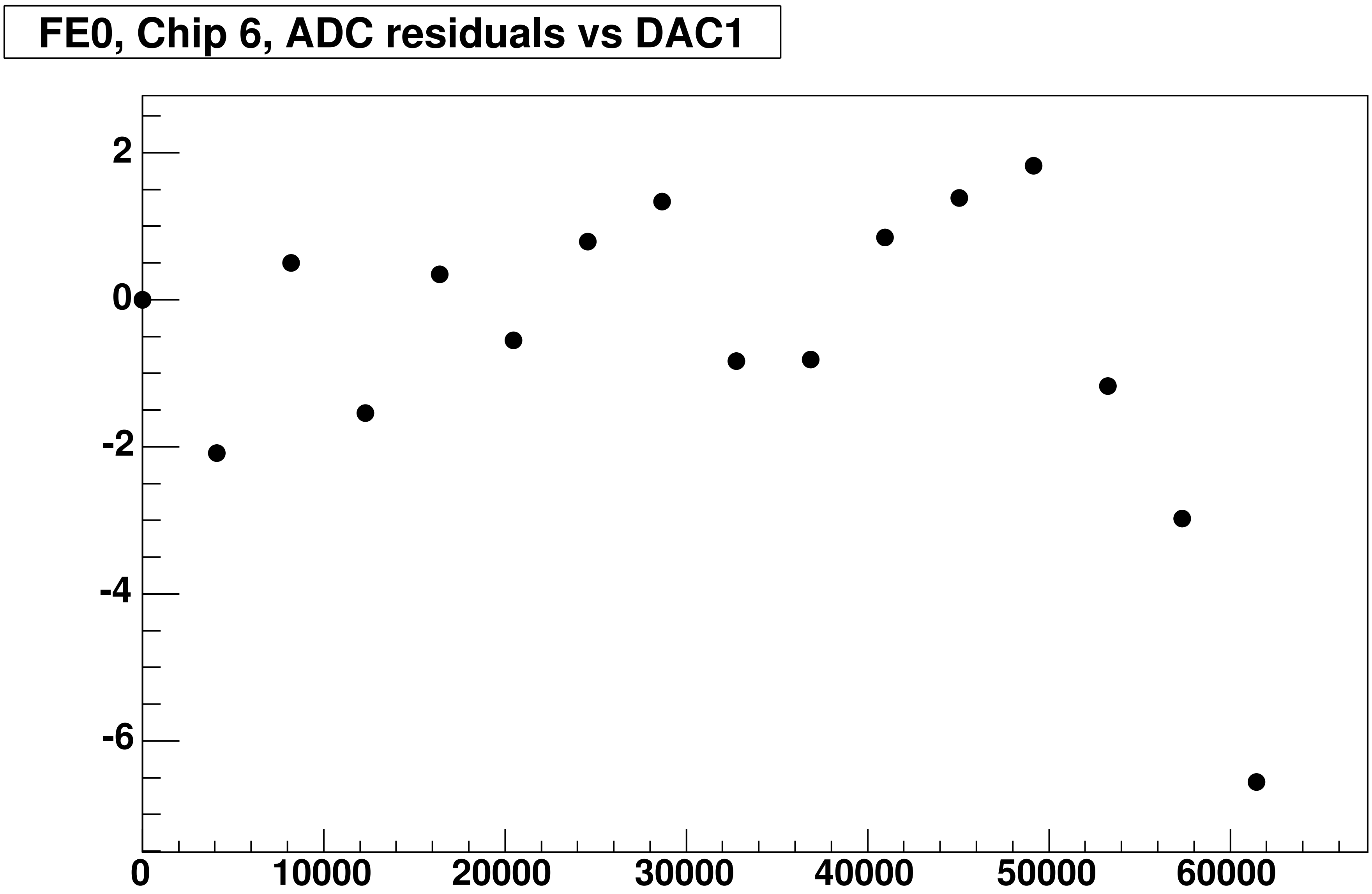
FE0, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

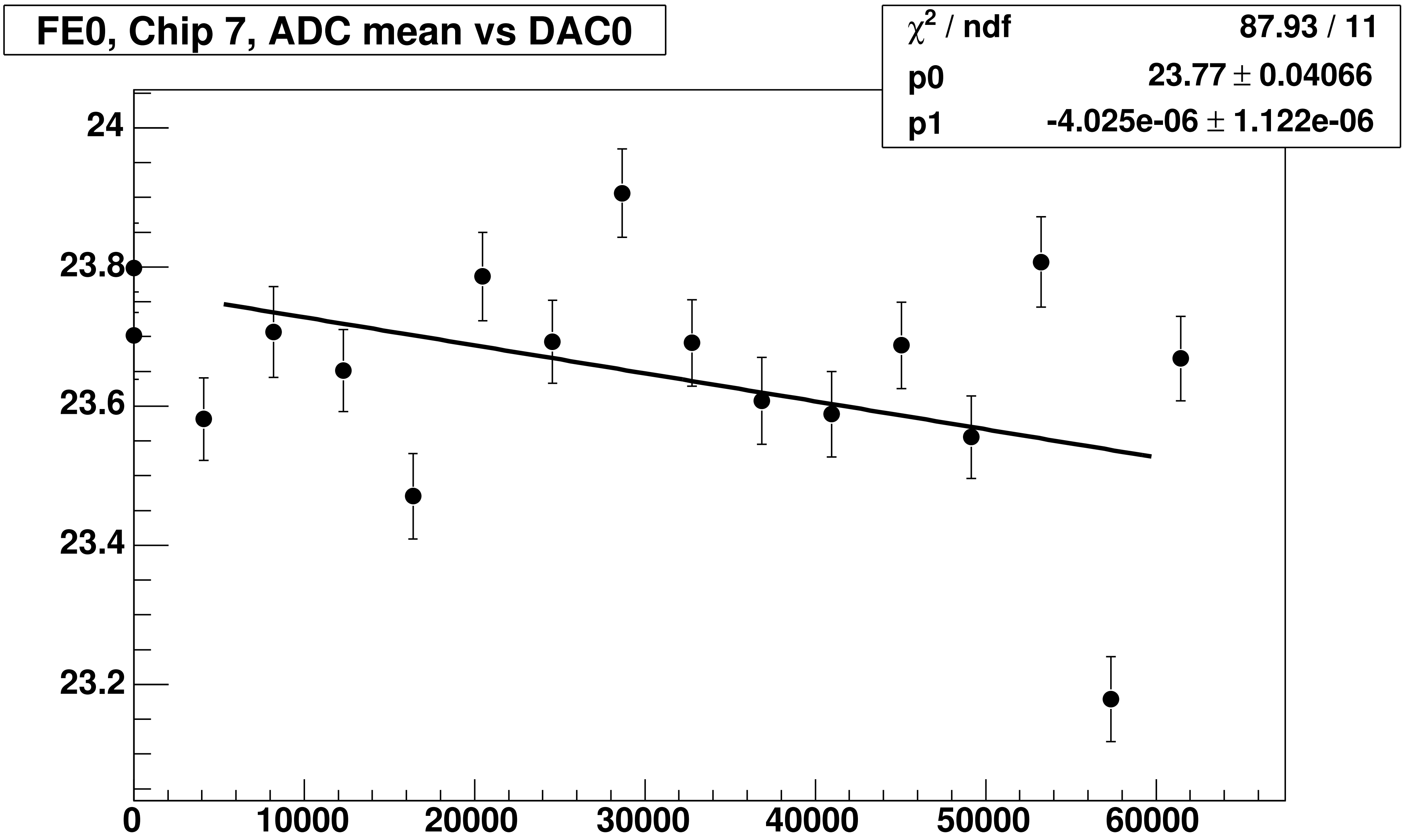


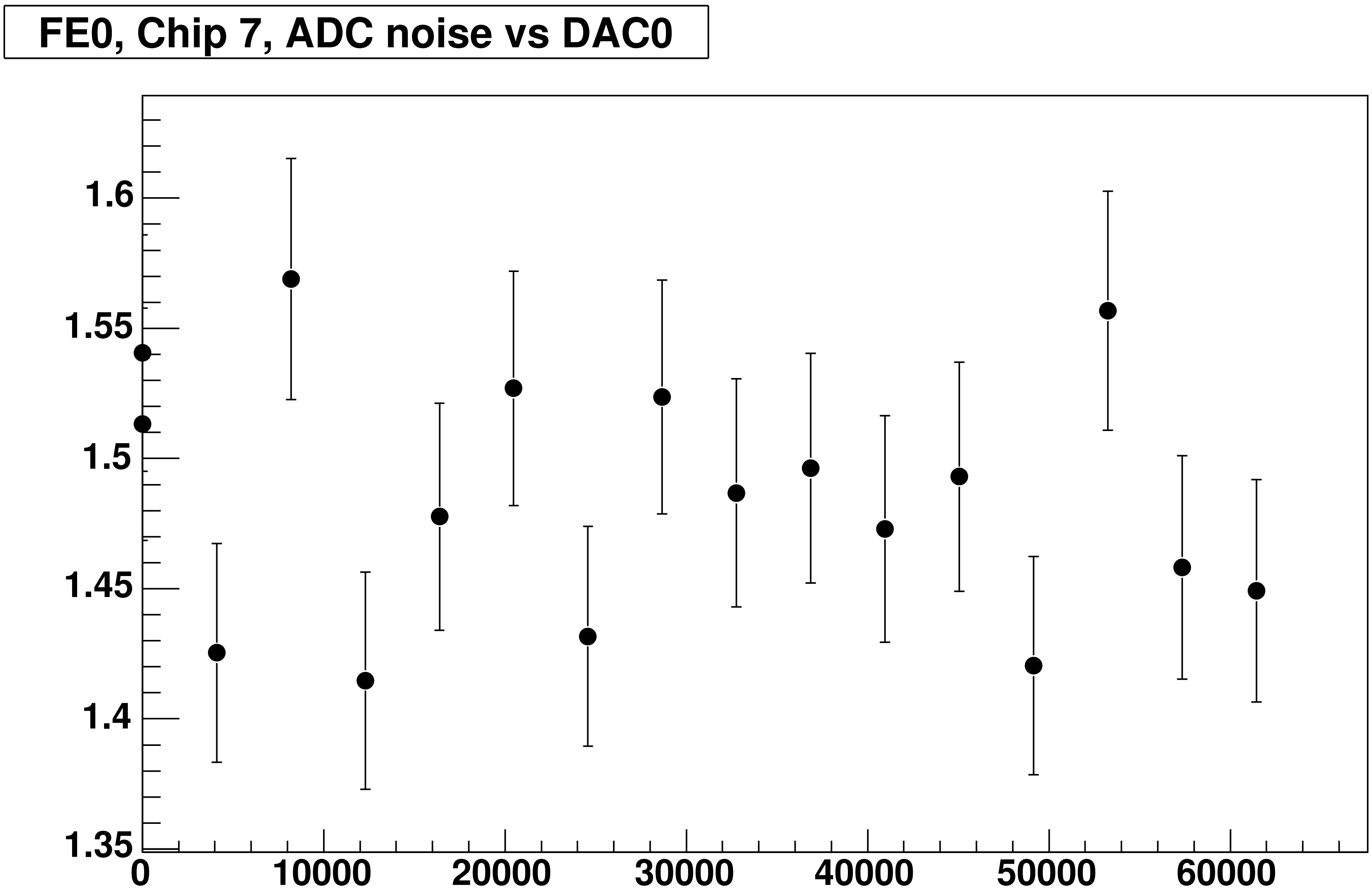
FE0, Chip 6, ADC mean vs DAC1
χ^2 / ndf 3251 / 11
p0 23.95 ± 0.04277
p1 0.4502 ± 1.39e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

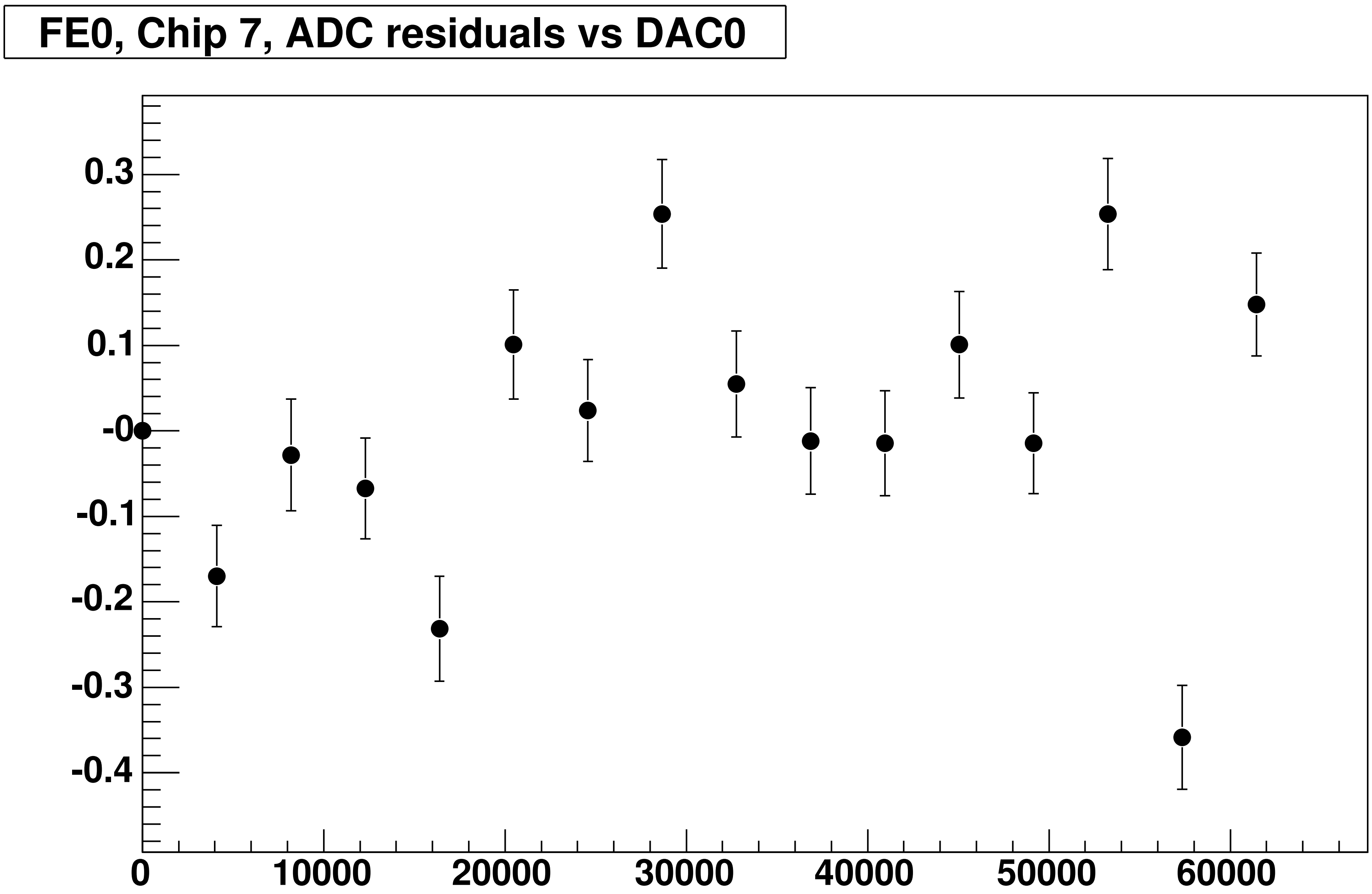


FE0, Chip 6, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

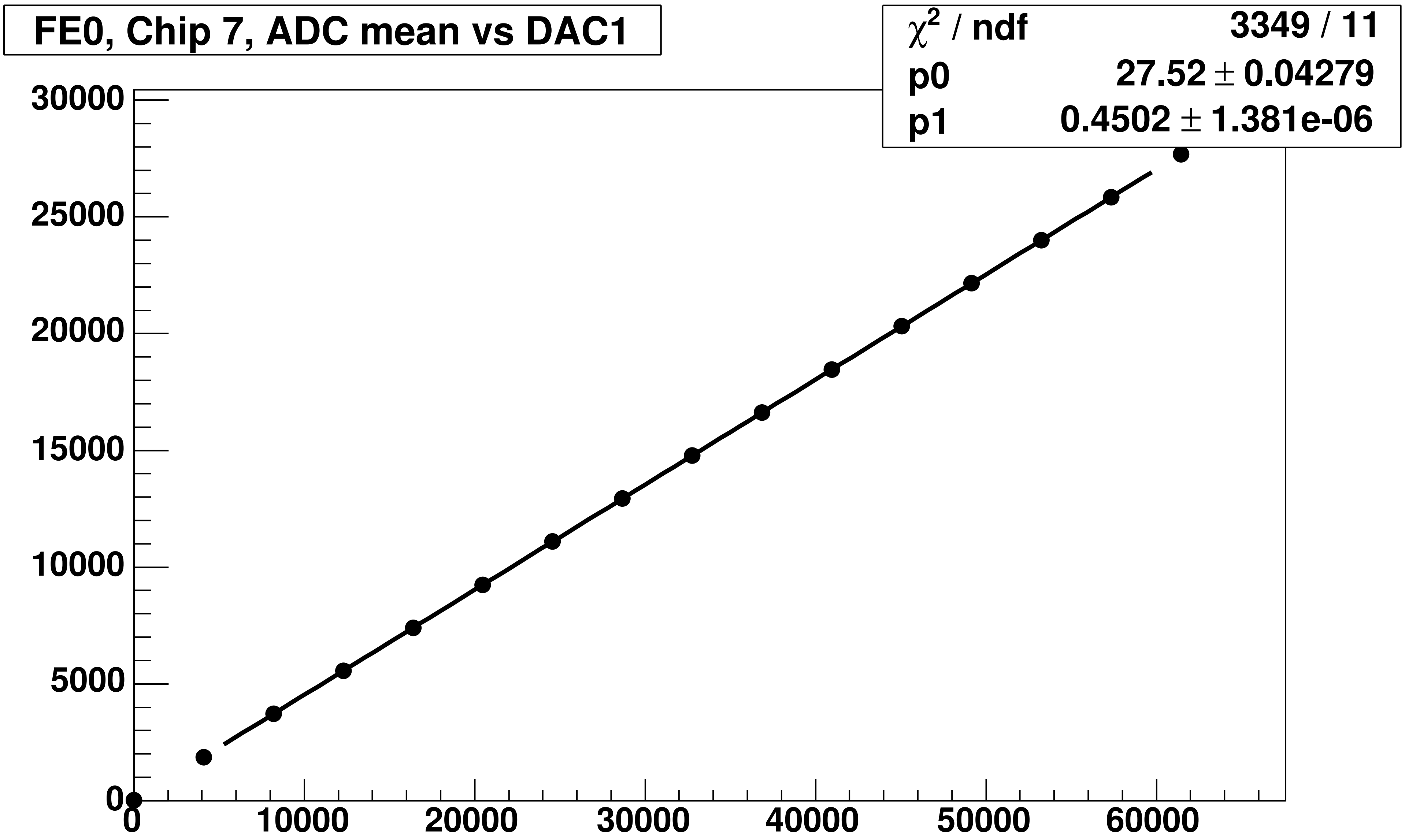

FE0, Chip 6, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

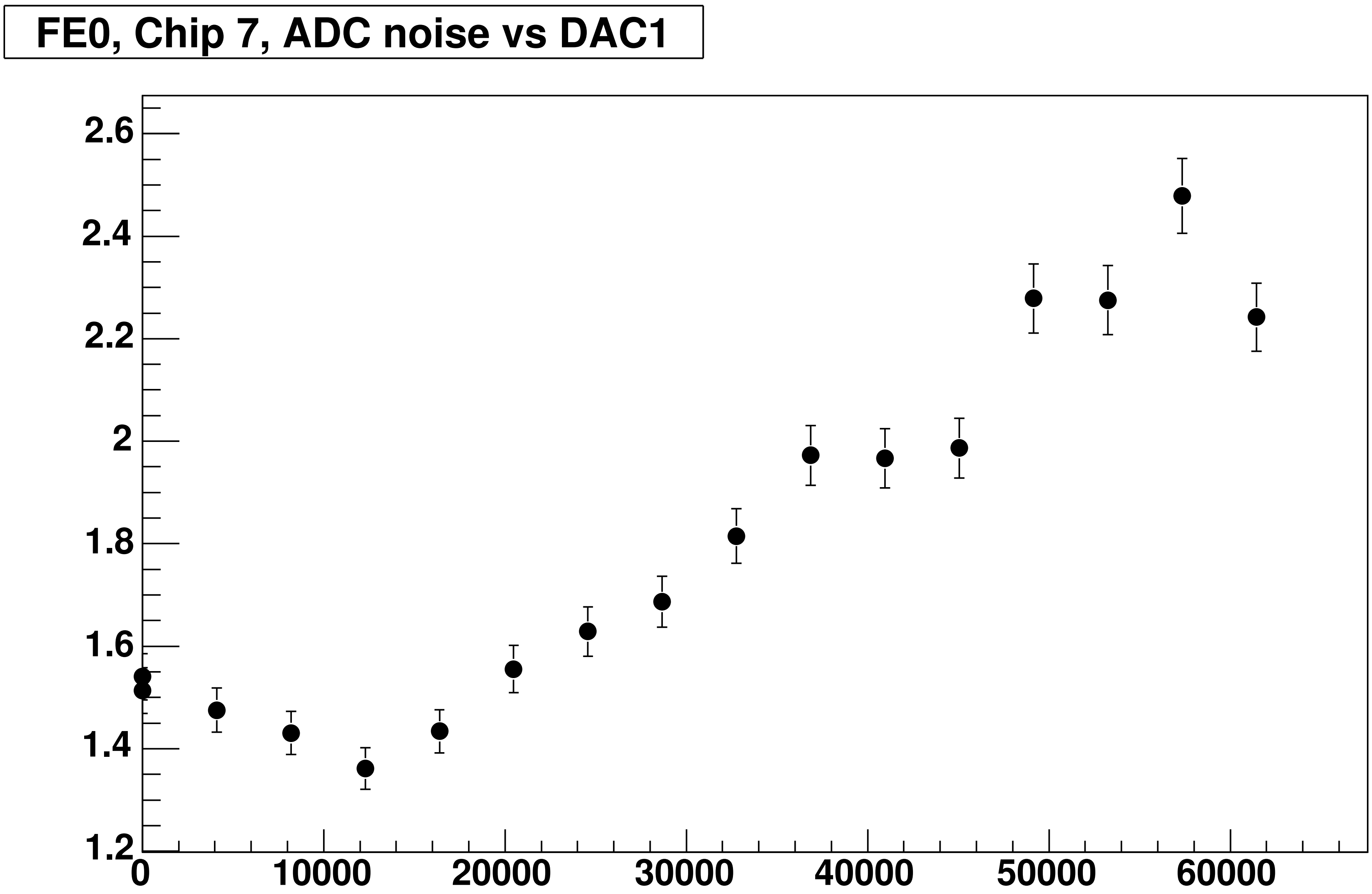

FE0, Chip 7, ADC mean vs DAC0
χ^2 / ndf 87.93 / 11
p0 23.77 ± 0.04066
p1 -4.025e-06 ± 1.122e-06
24
23.8
23.6
23.4
23.2
0
10000
20000
30000
40000
50000
60000

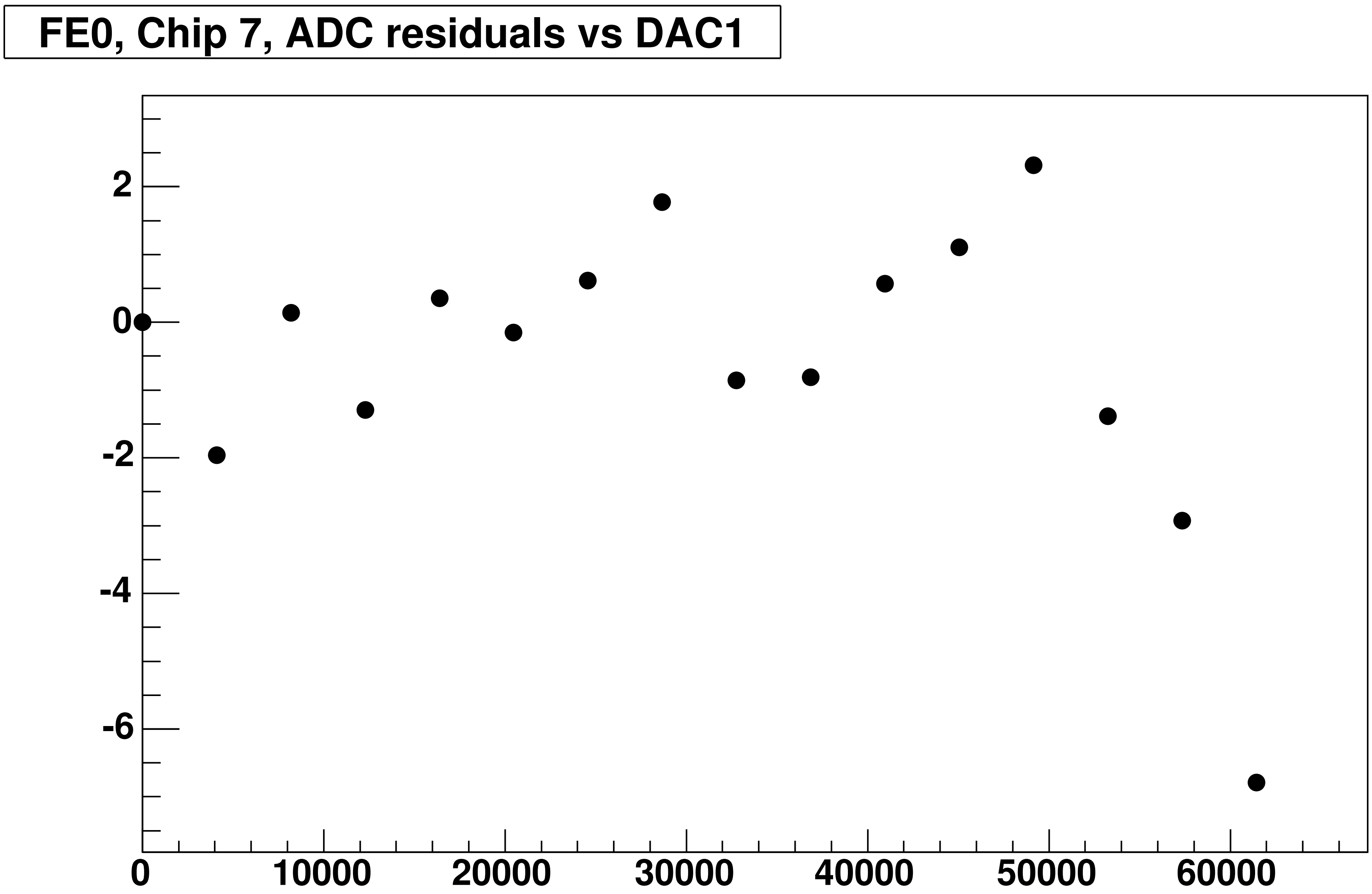

FE0, Chip 7, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

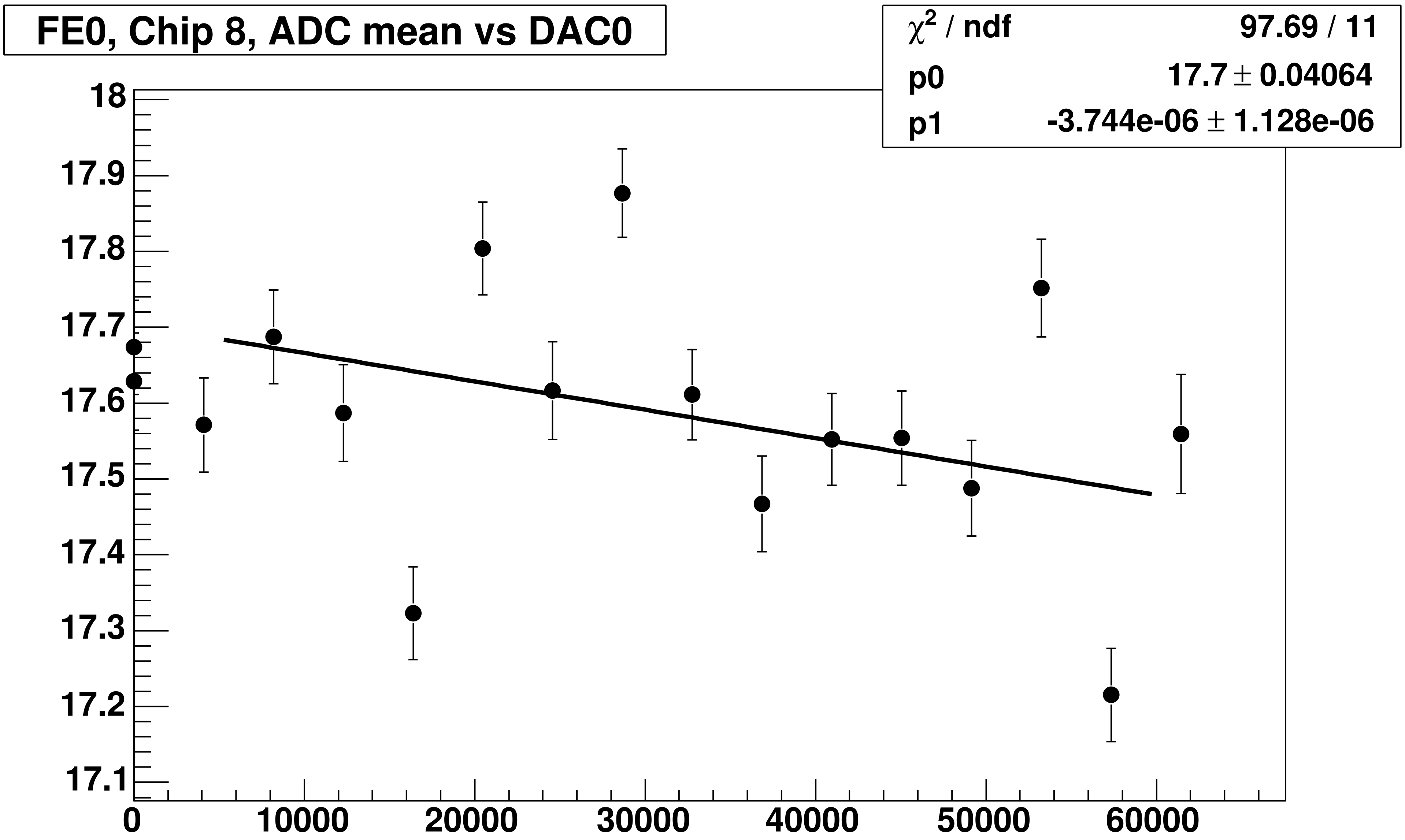


FE0, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

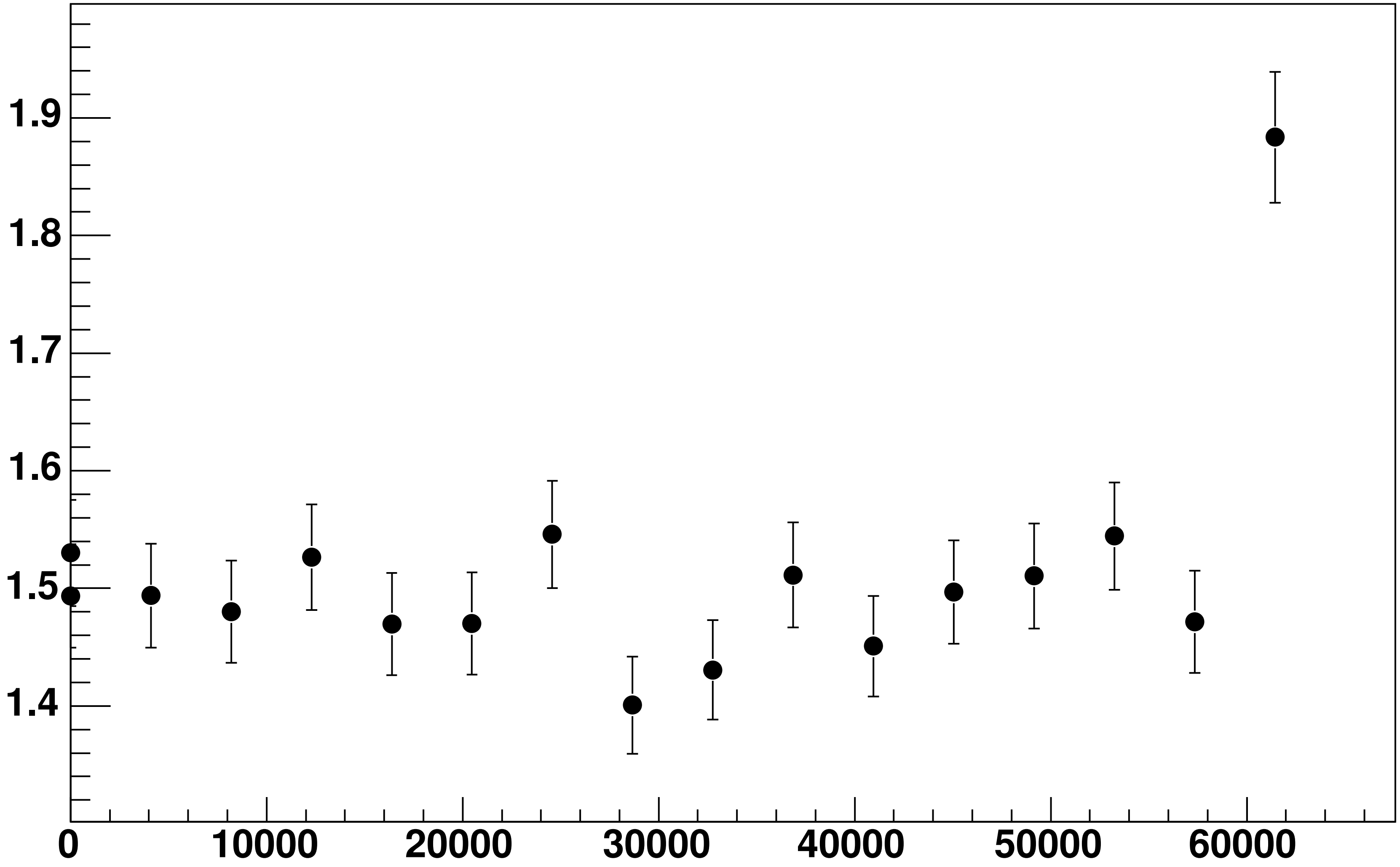

FE0, Chip 7, ADC mean vs DAC1
χ² / ndf 3349 / 11
p0 27.52 ± 0.04279
p1 0.4502 ± 1.381e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

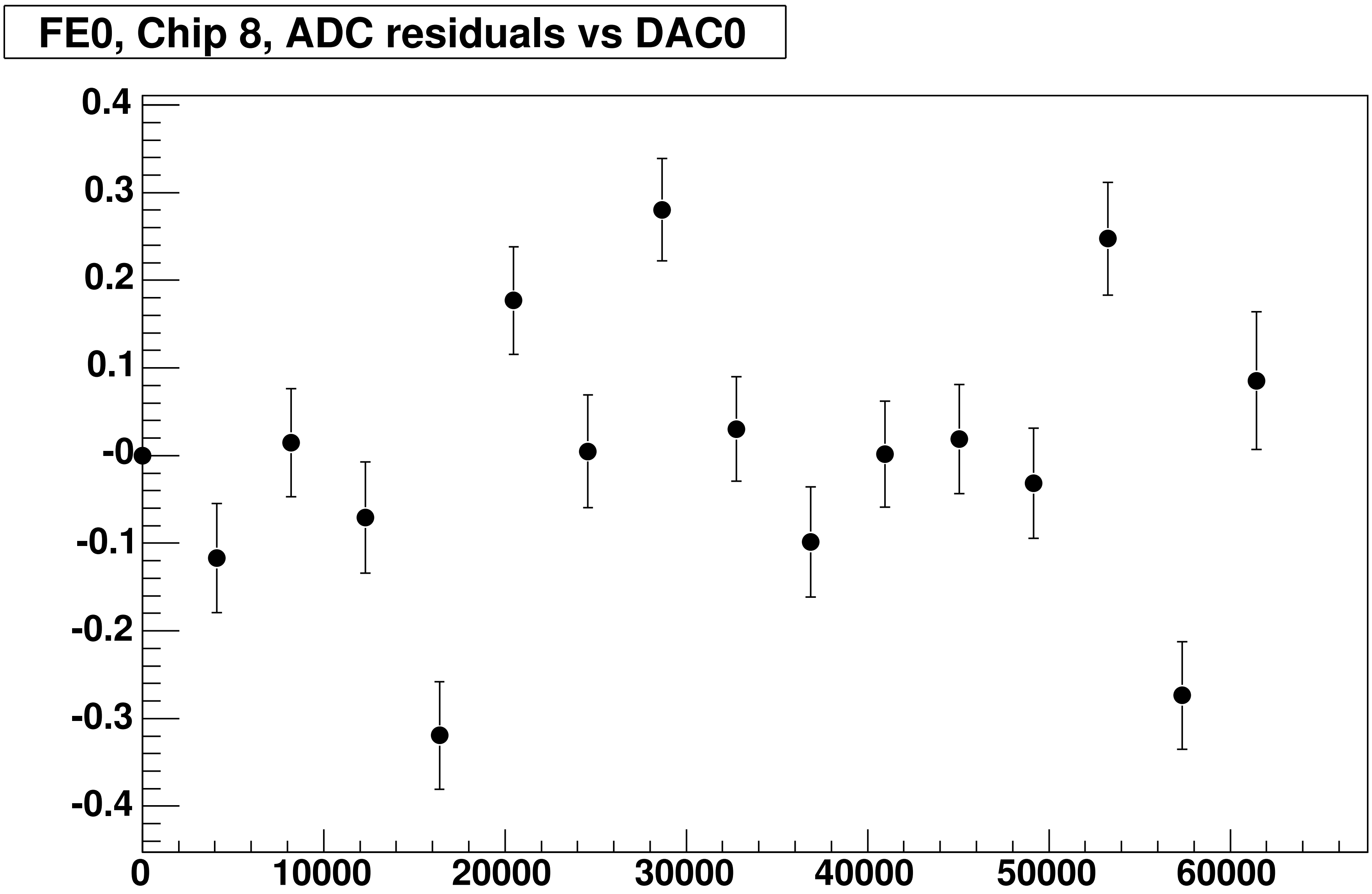

FE0, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

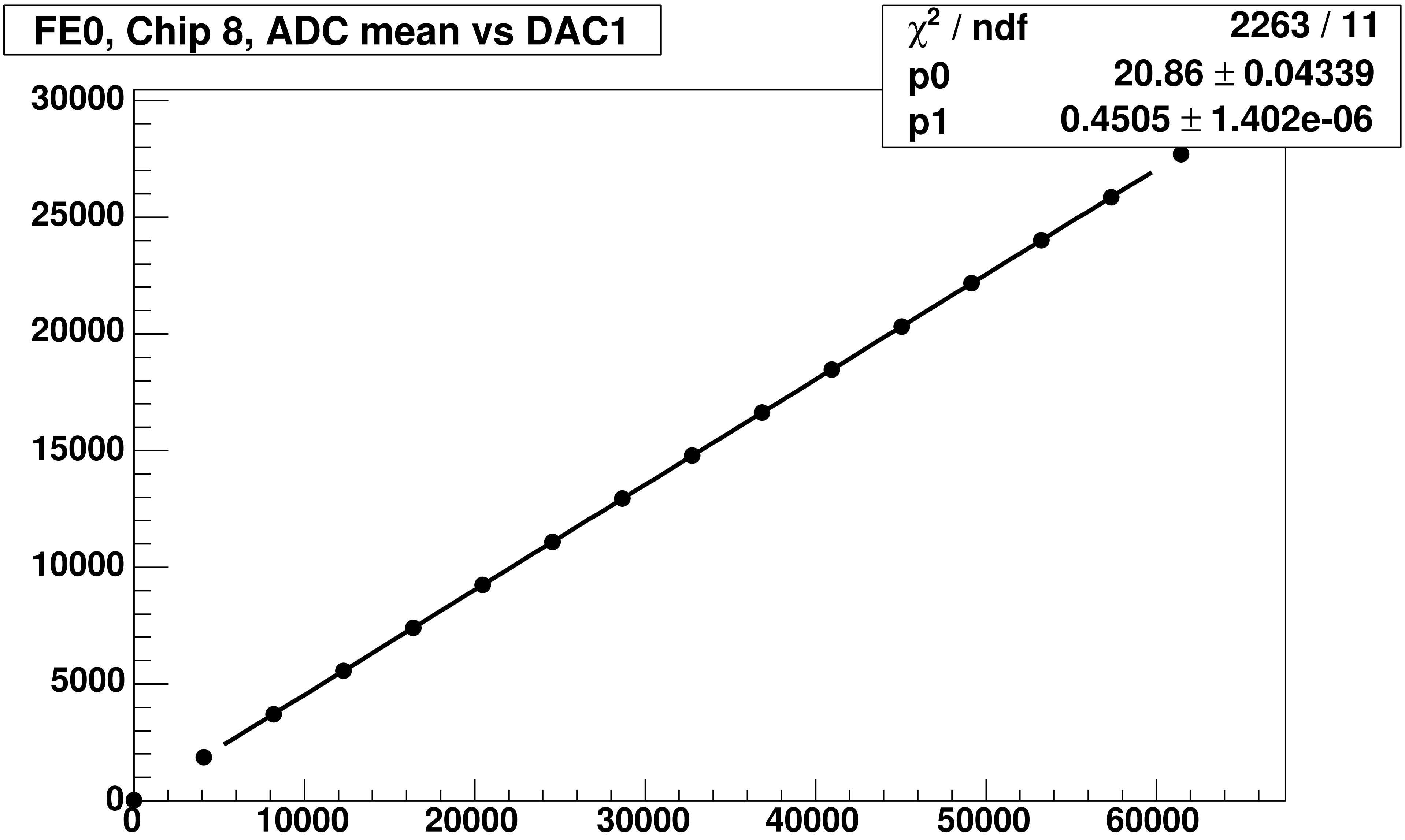

FE0, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000


FE0, Chip 8, ADC mean vs DAC0
χ^2 / ndf 97.69 / 11
p0 17.7 ± 0.04064
p1 -3.744e-06 ± 1.128e-06
18
17.9
17.8
17.7
17.6
17.5
17.4
17.3
17.2
17.1
0
10000
20000
30000
40000
50000
60000

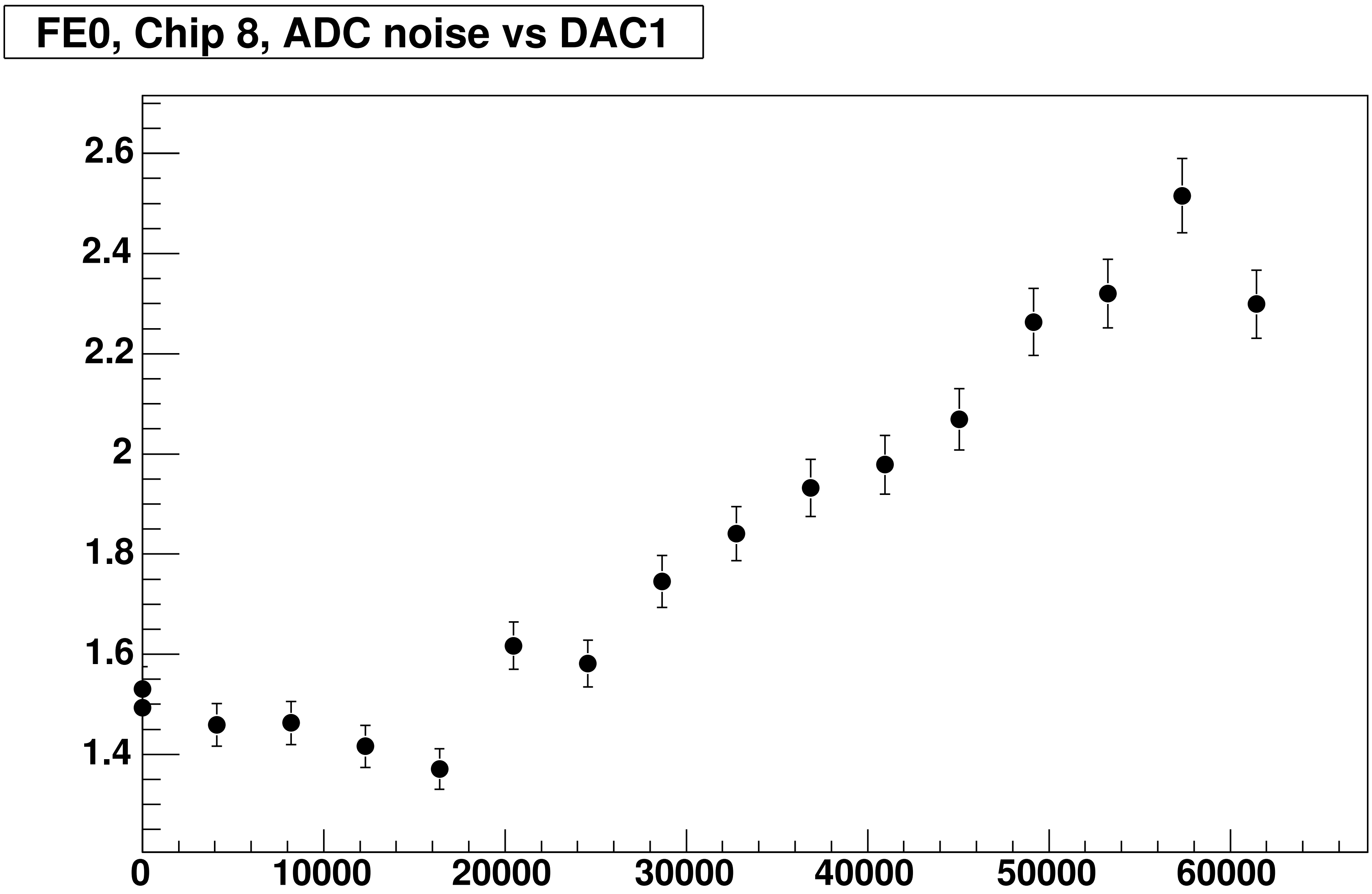
FE0, Chip 8, ADC noise vs DAC0

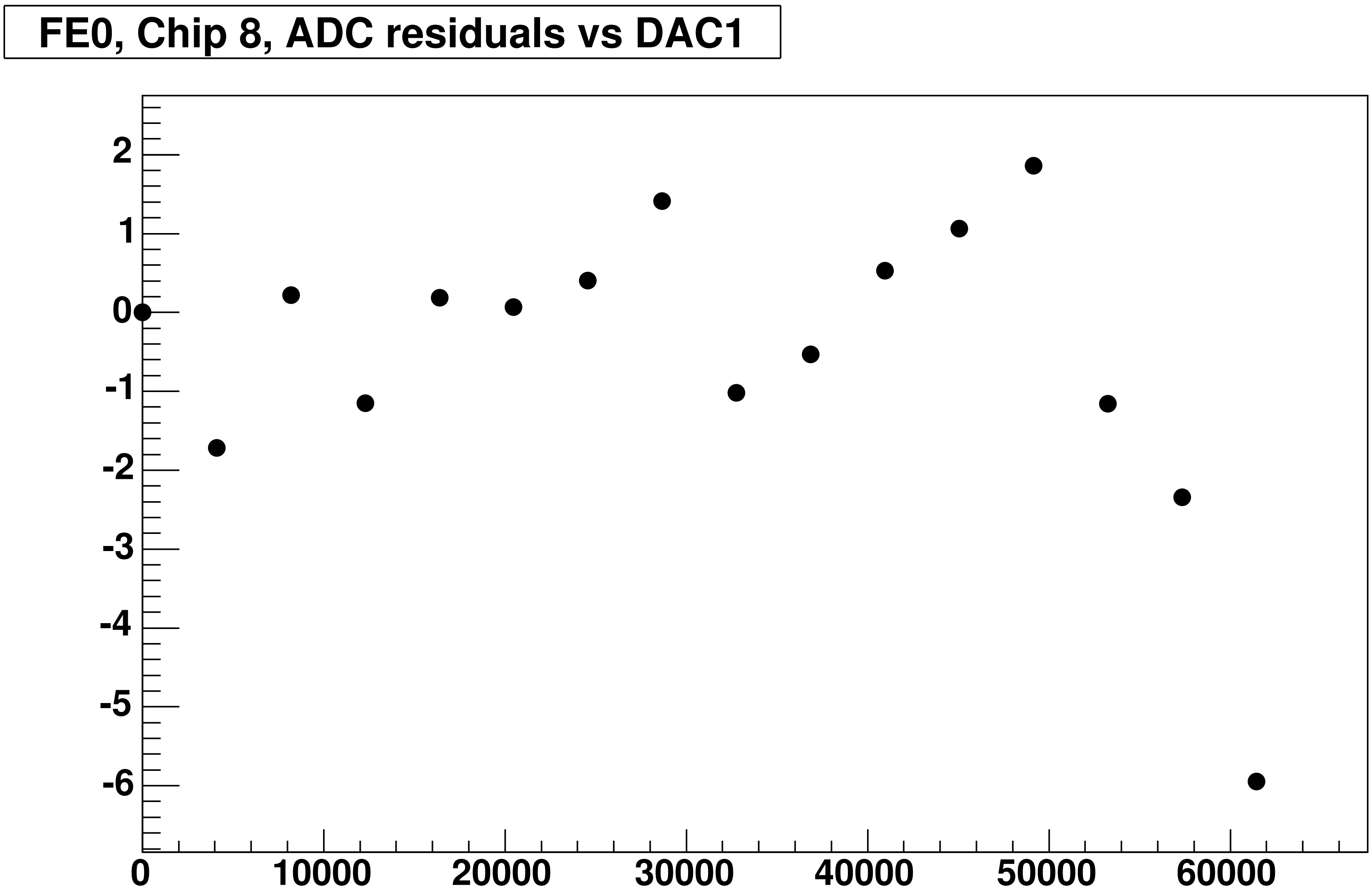



FE0, Chip 8, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

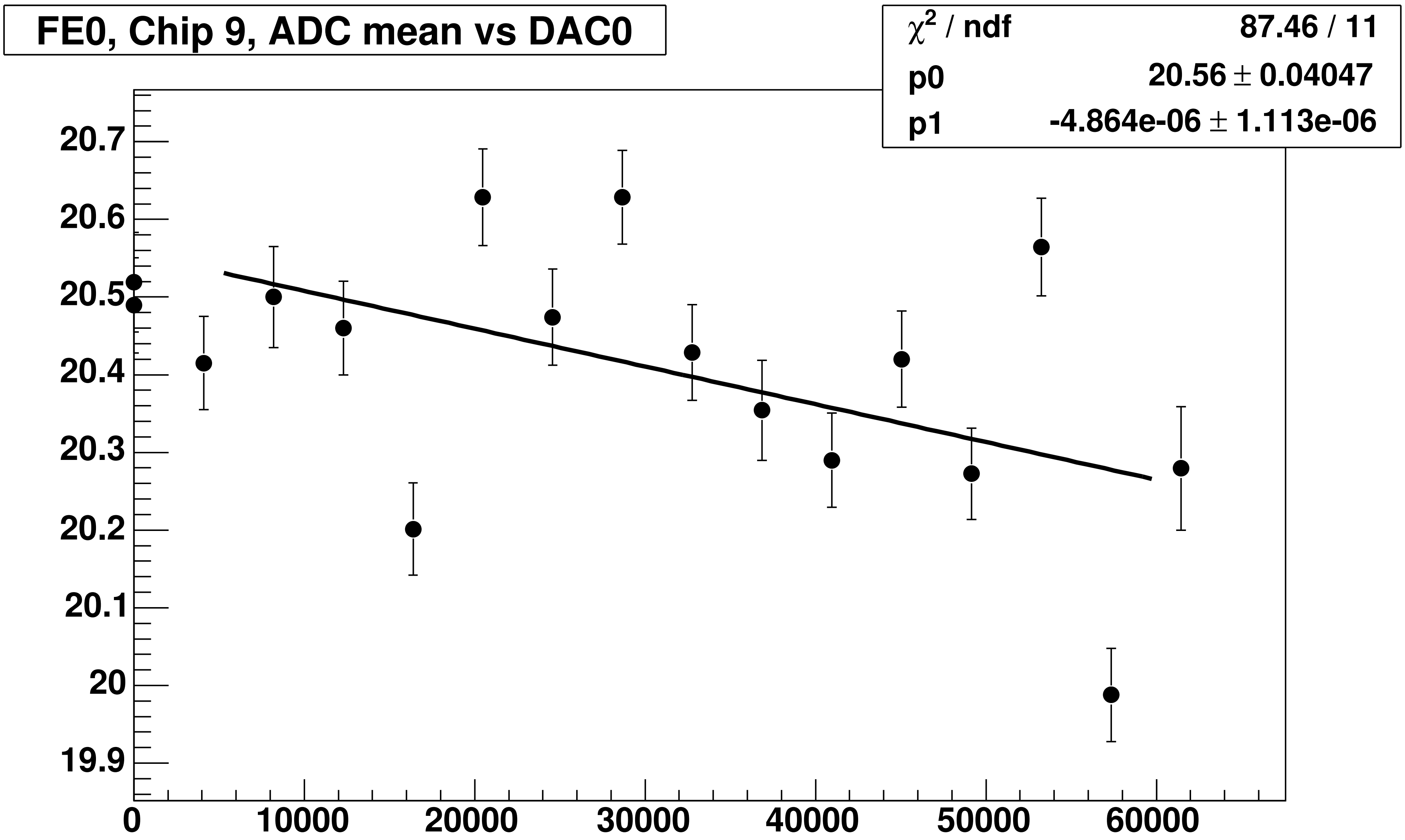


FE0, Chip 8, ADC mean vs DAC1
χ^2 / ndf 2263 / 11
p0 20.86 ± 0.04339
p1 0.4505 ± 1.402e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

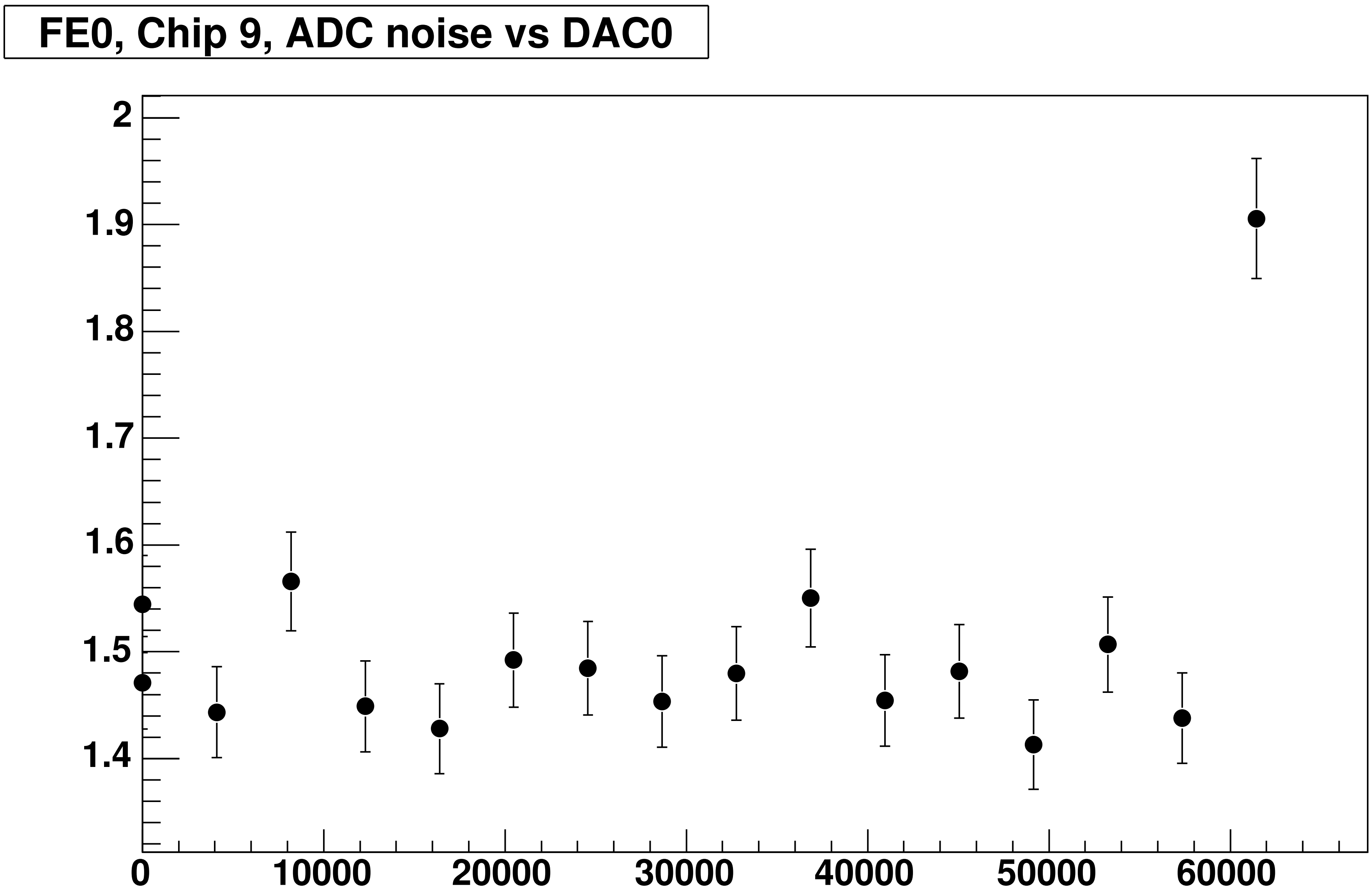

FE0, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



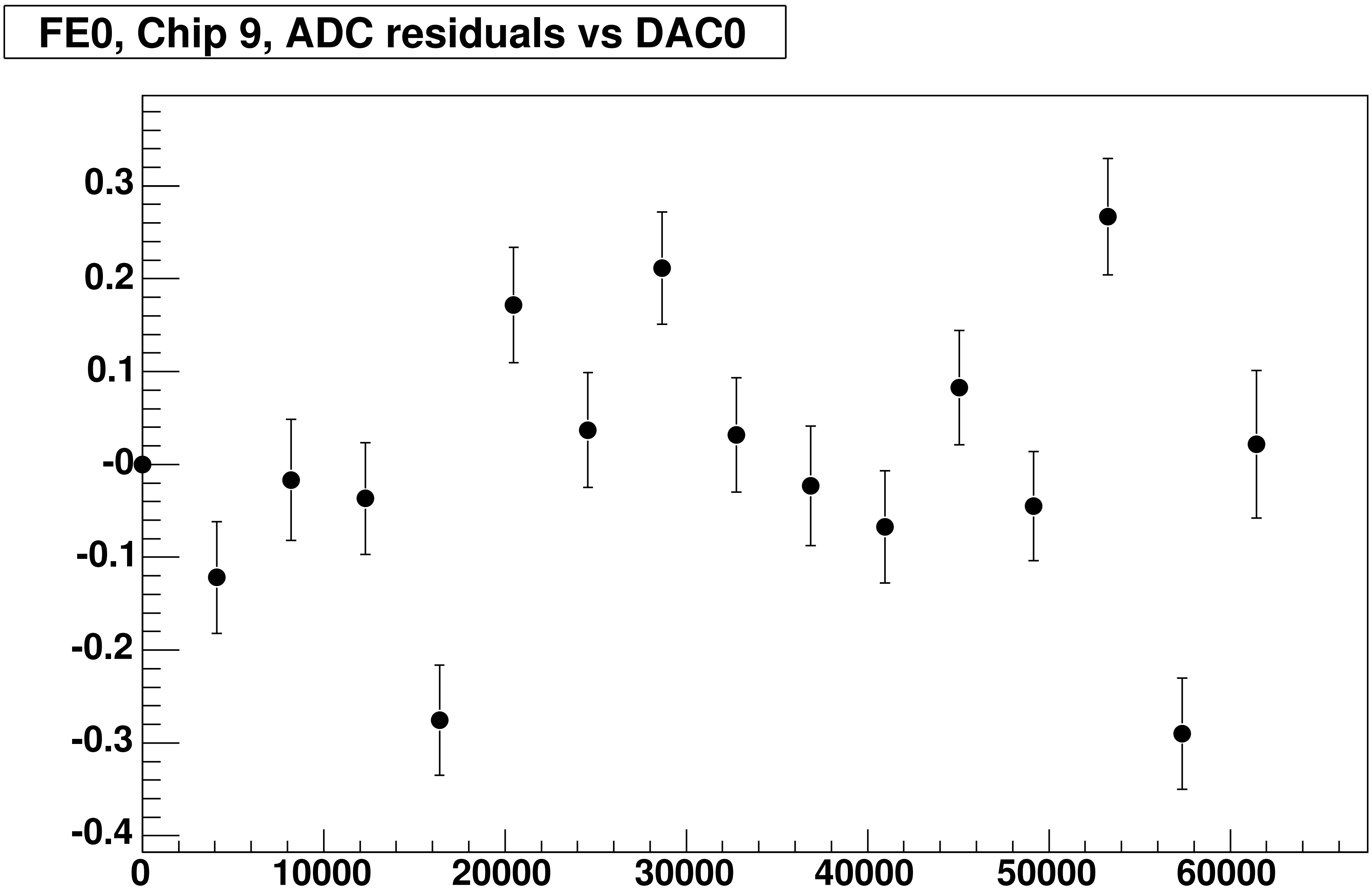
FE0, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

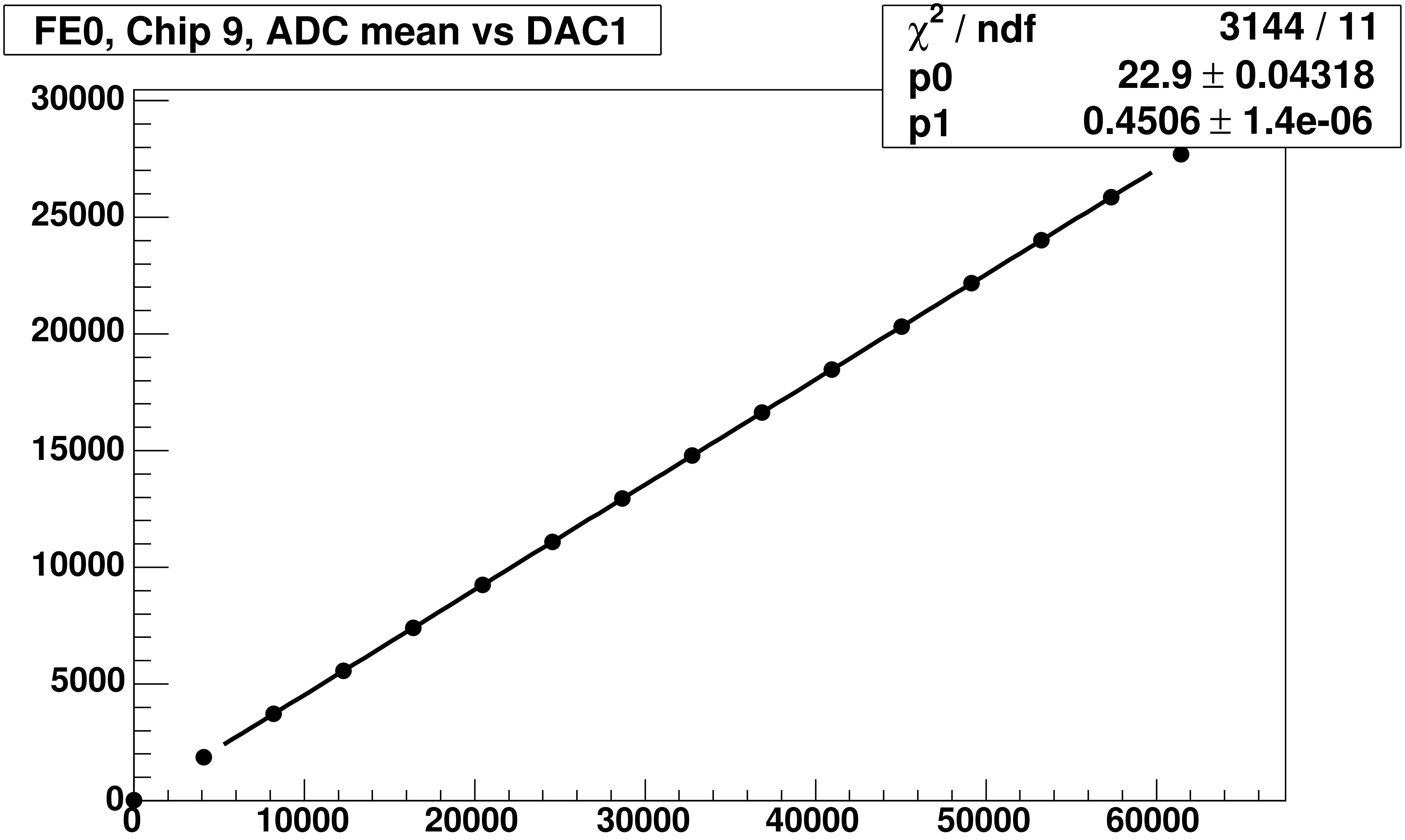


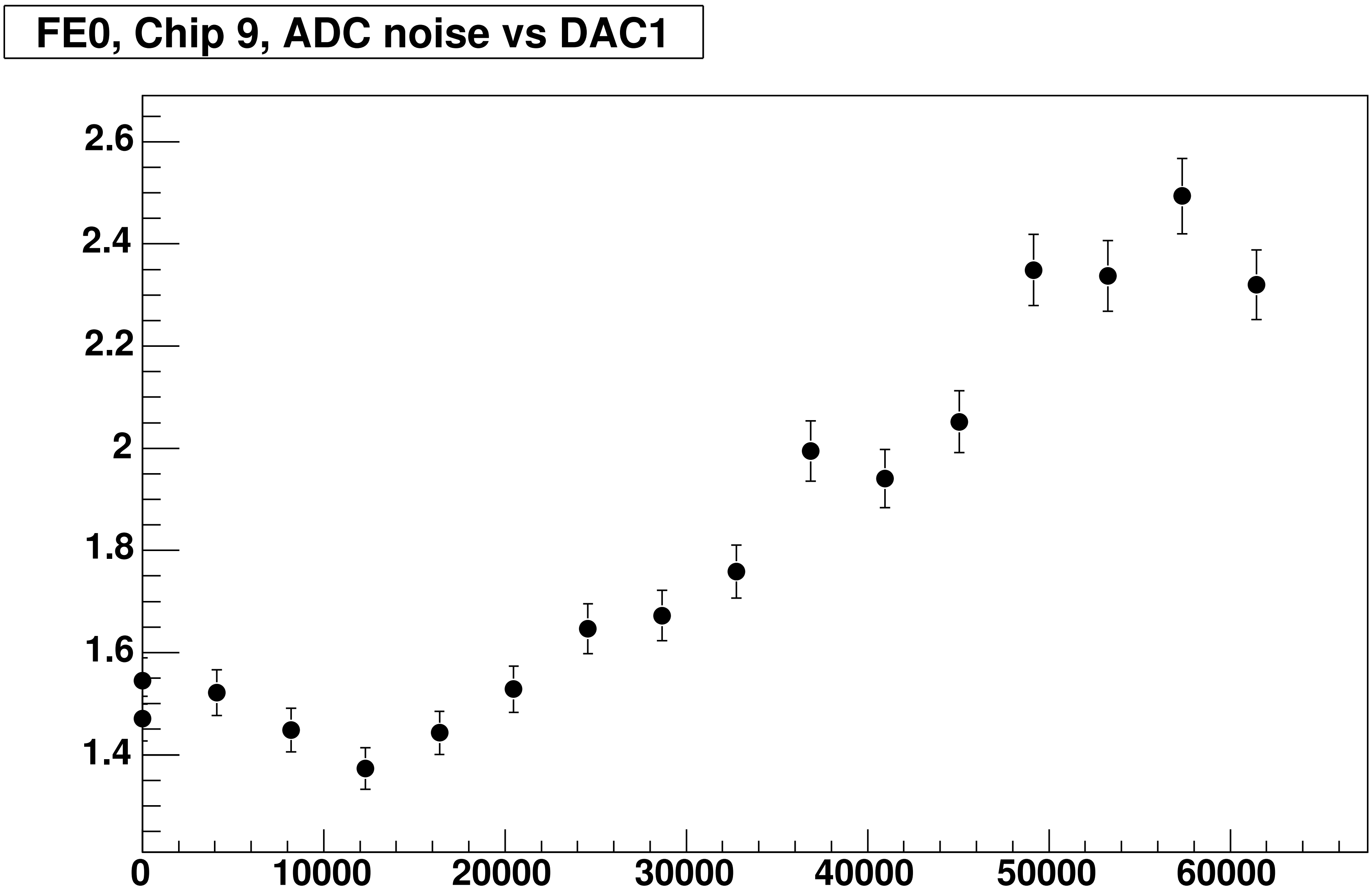
FE0, Chip 9, ADC mean vs DAC0
χ2 / ndf 87.46 / 11
p0 20.56 ± 0.04047
p1 -4.864e-06 ± 1.113e-06
20.7
20.6
20.5
20.4
20.3
20.2
20.1
20
19.9
0
10000
20000
30000
40000
50000
60000

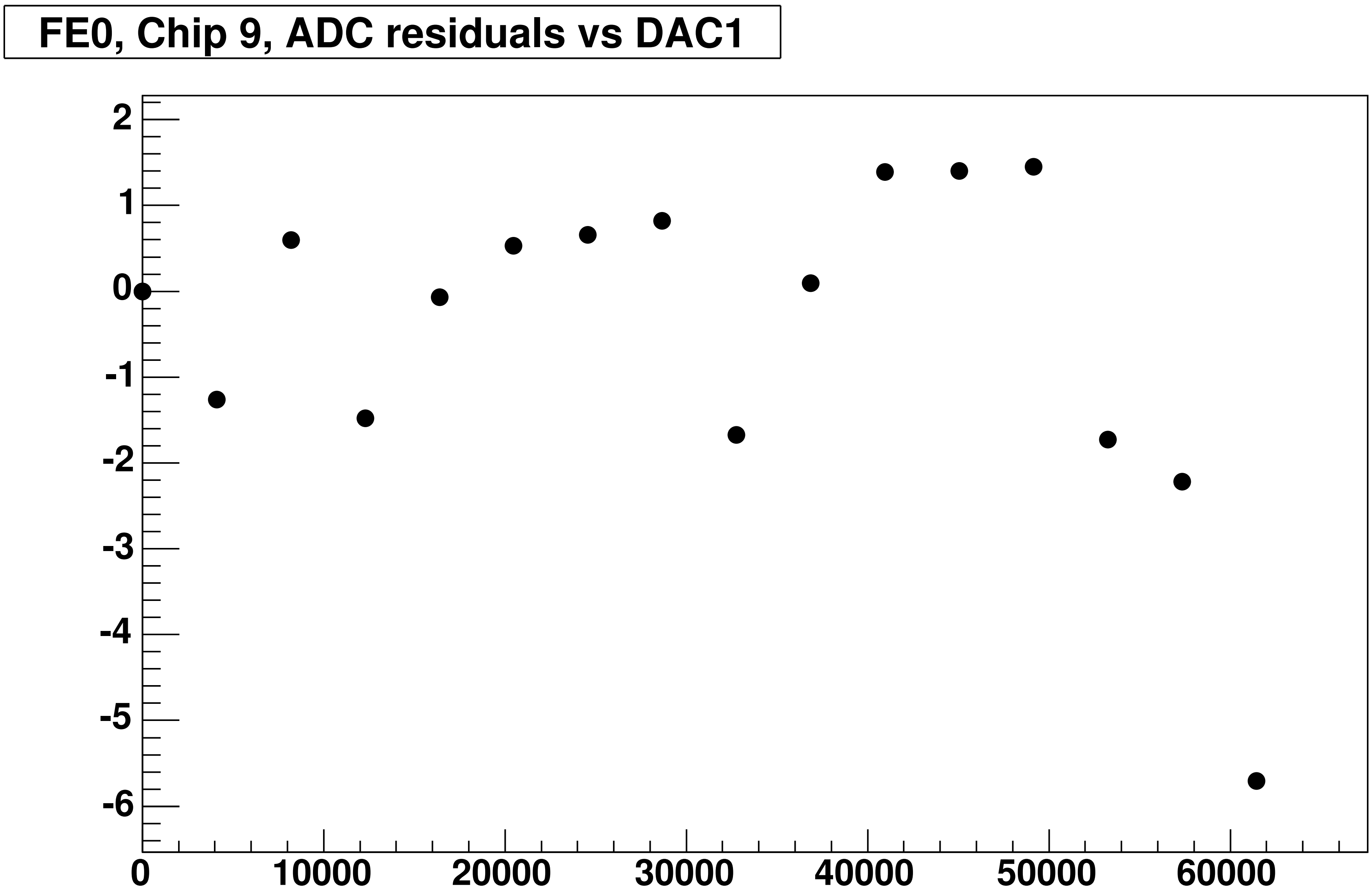


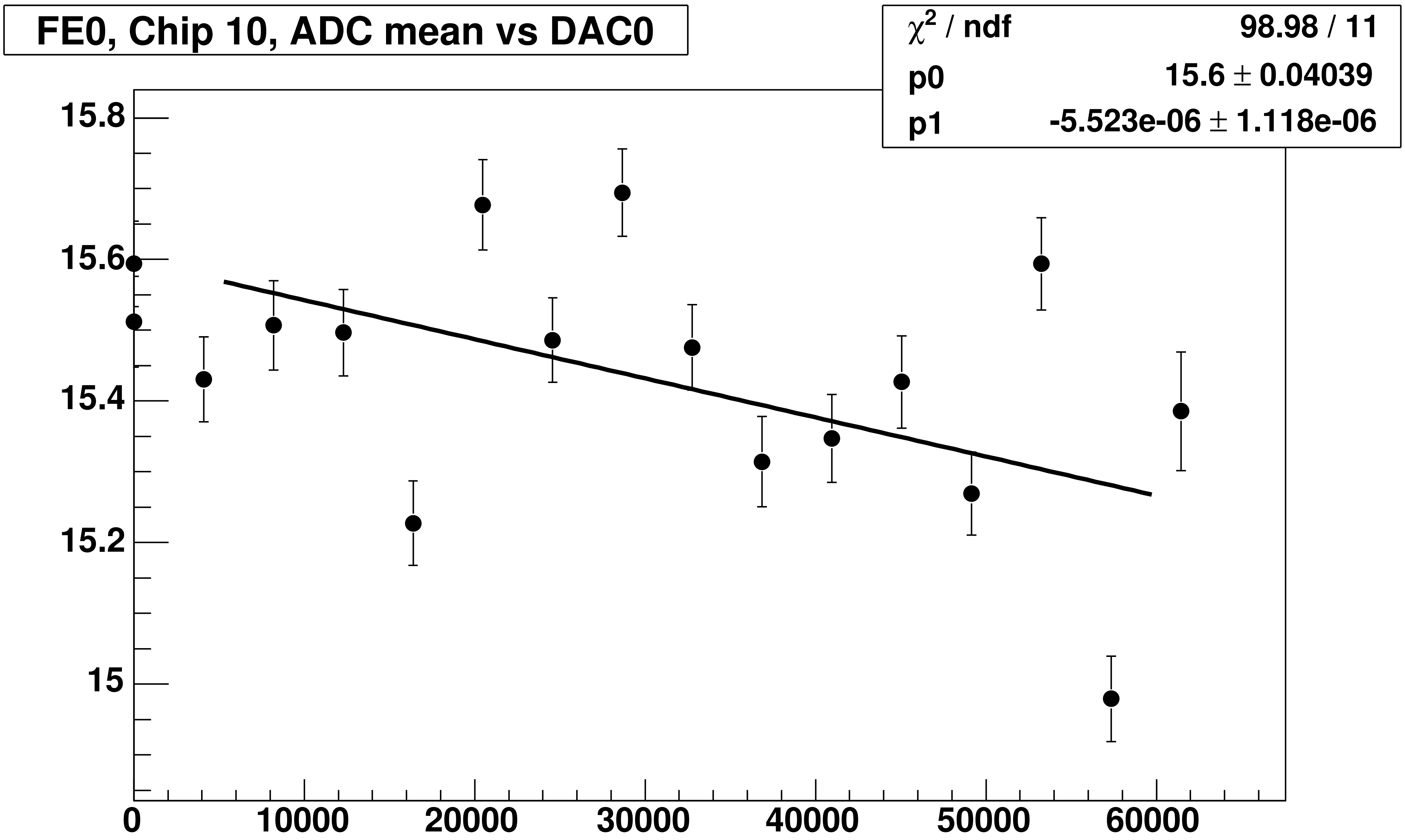
FE0, Chip 9, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000


FE0, Chip 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

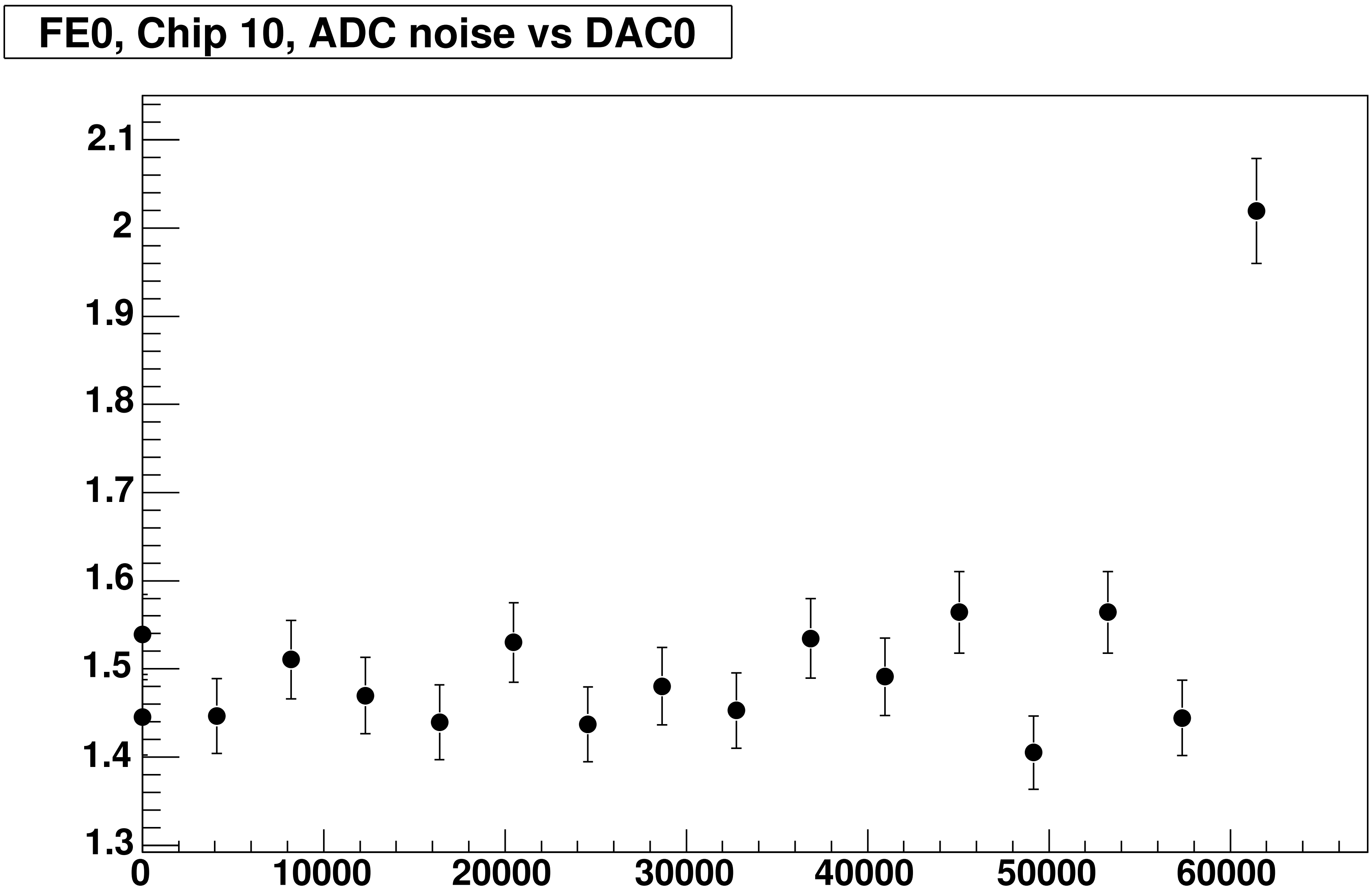

FE0, Chip 9, ADC mean vs DAC1
χ2 / ndf 3144 / 11
p0 22.9 ± 0.04318
p1 0.4506 ± 1.4e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

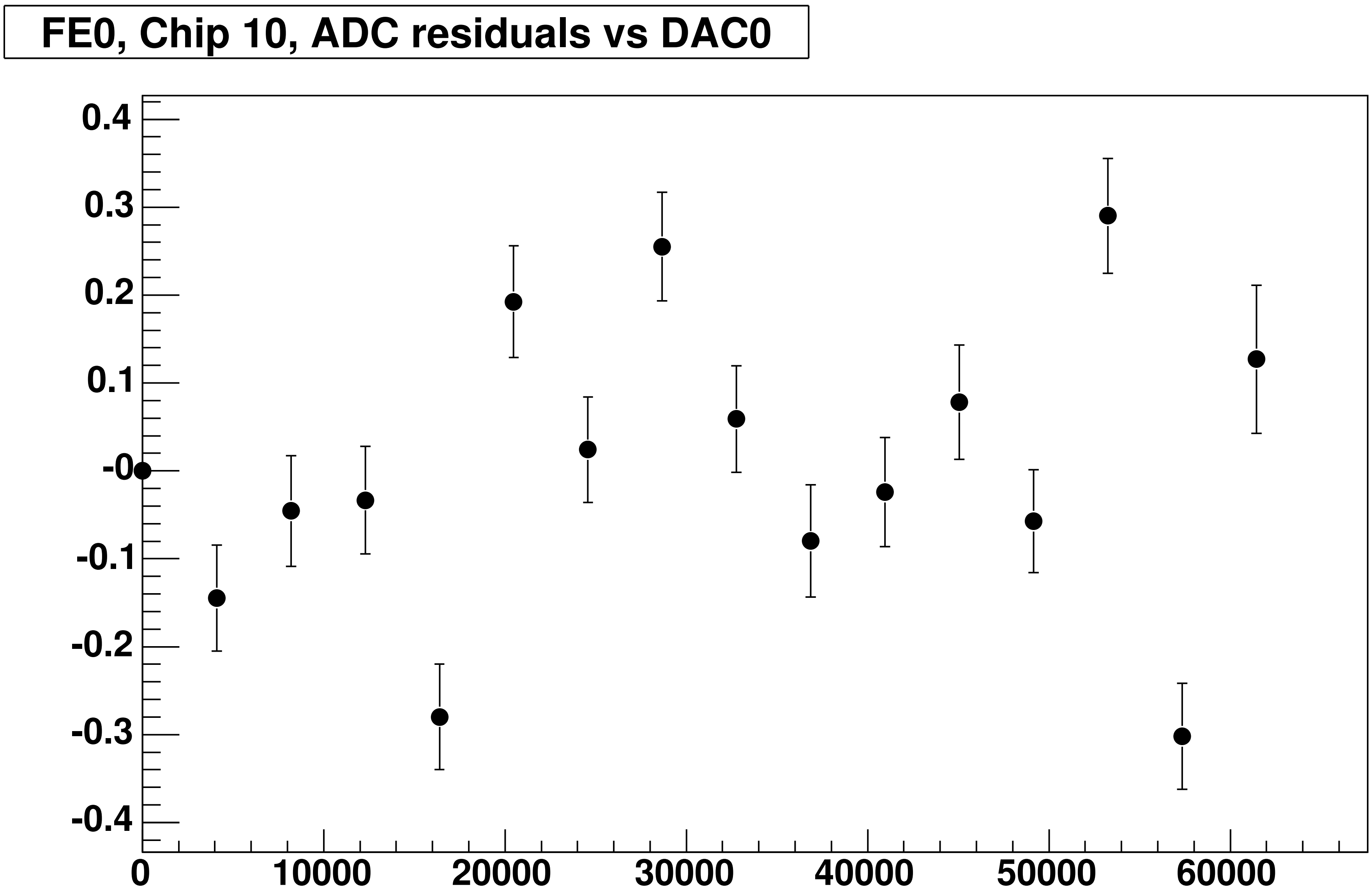

FE0, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

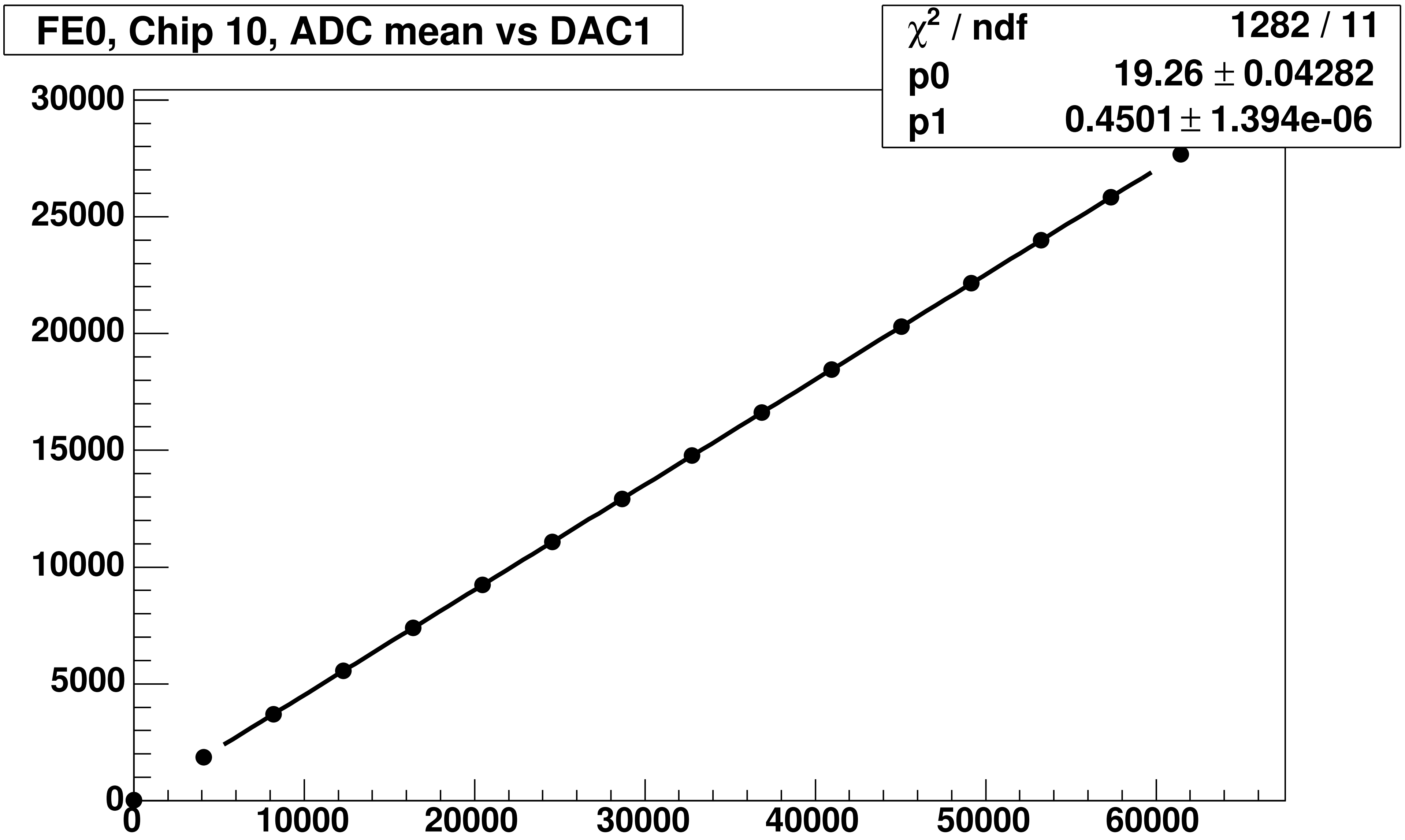

FE0, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



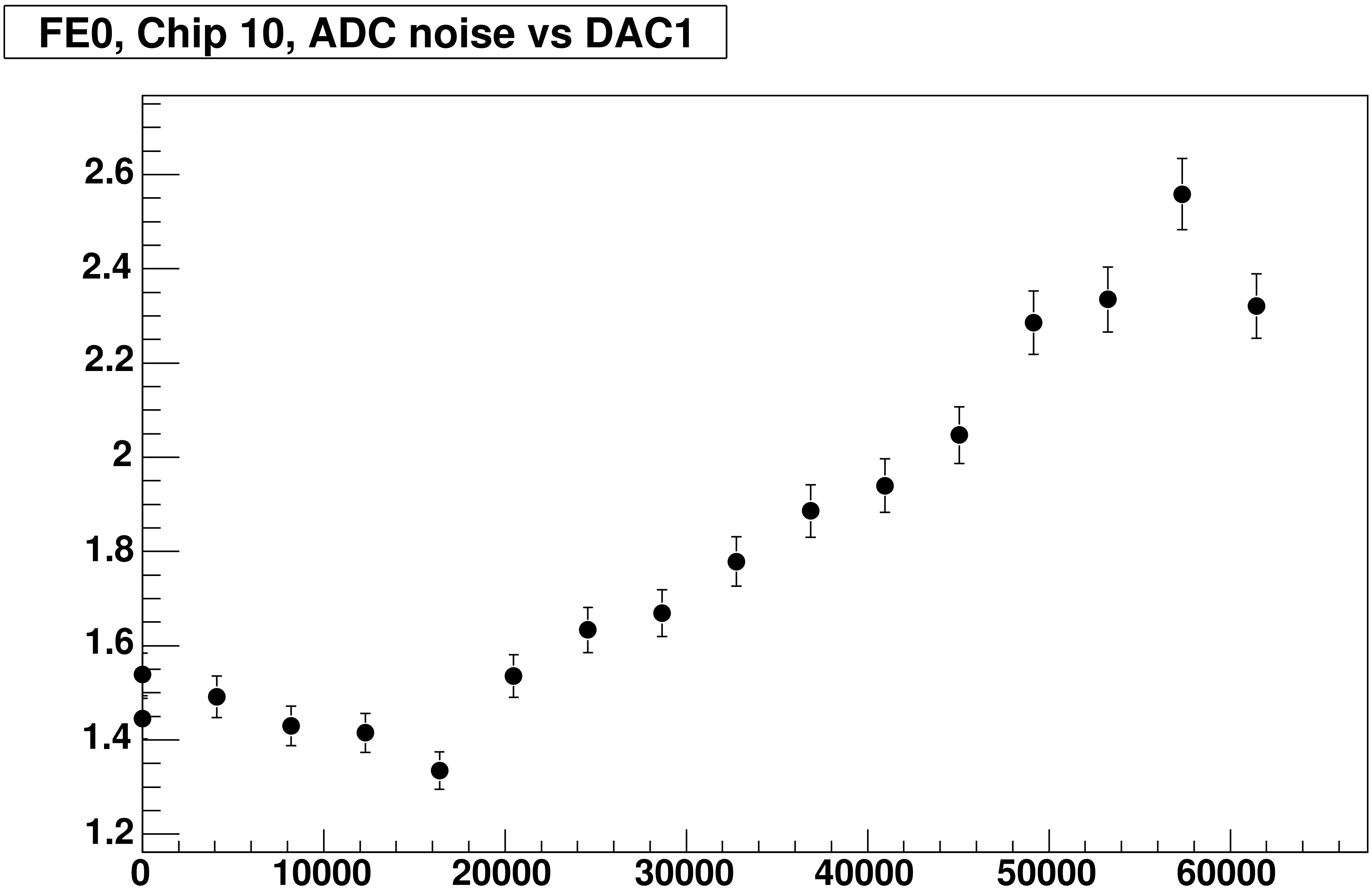
FE0, Chip 10, ADC mean vs DAC0
χ^2 / ndf 98.98 / 11
p0 15.6 ± 0.04039
p1 -5.523e-06 ± 1.118e-06
15.8
15.6
15.4
15.2
15
0
10000
20000
30000
40000
50000
60000

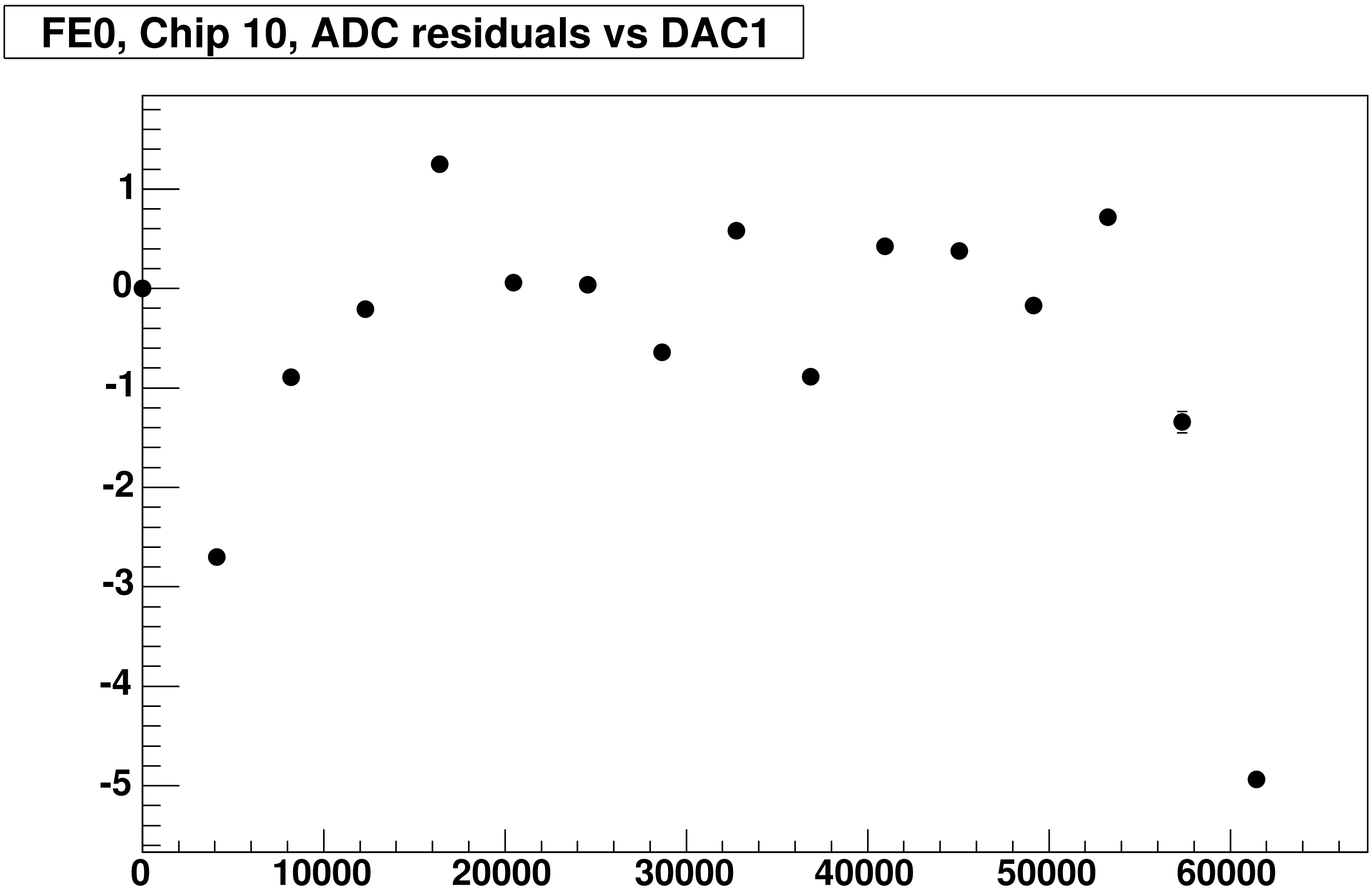

FE0, Chip 10, ADC noise vs DAC0
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

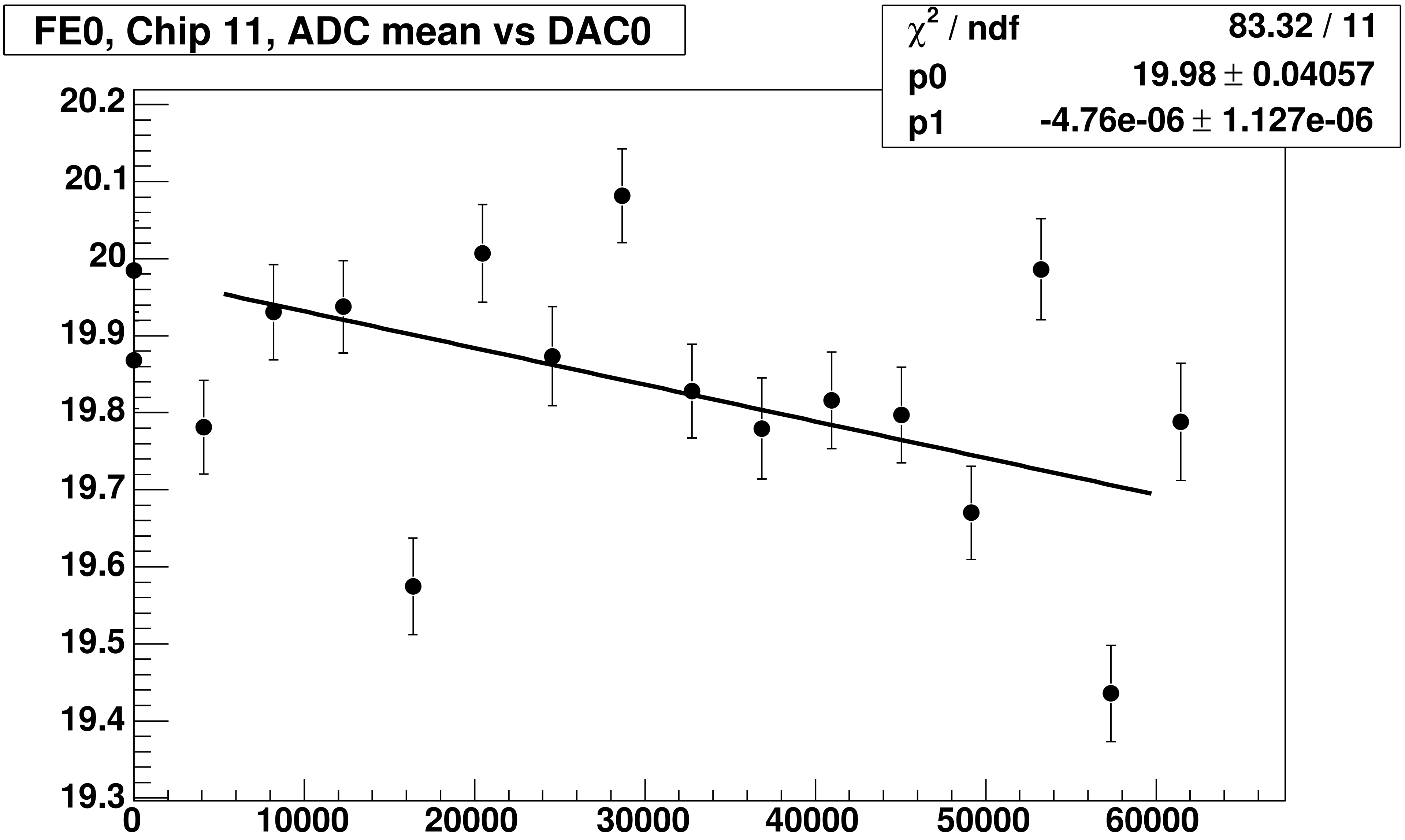

FE0, Chip 10, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



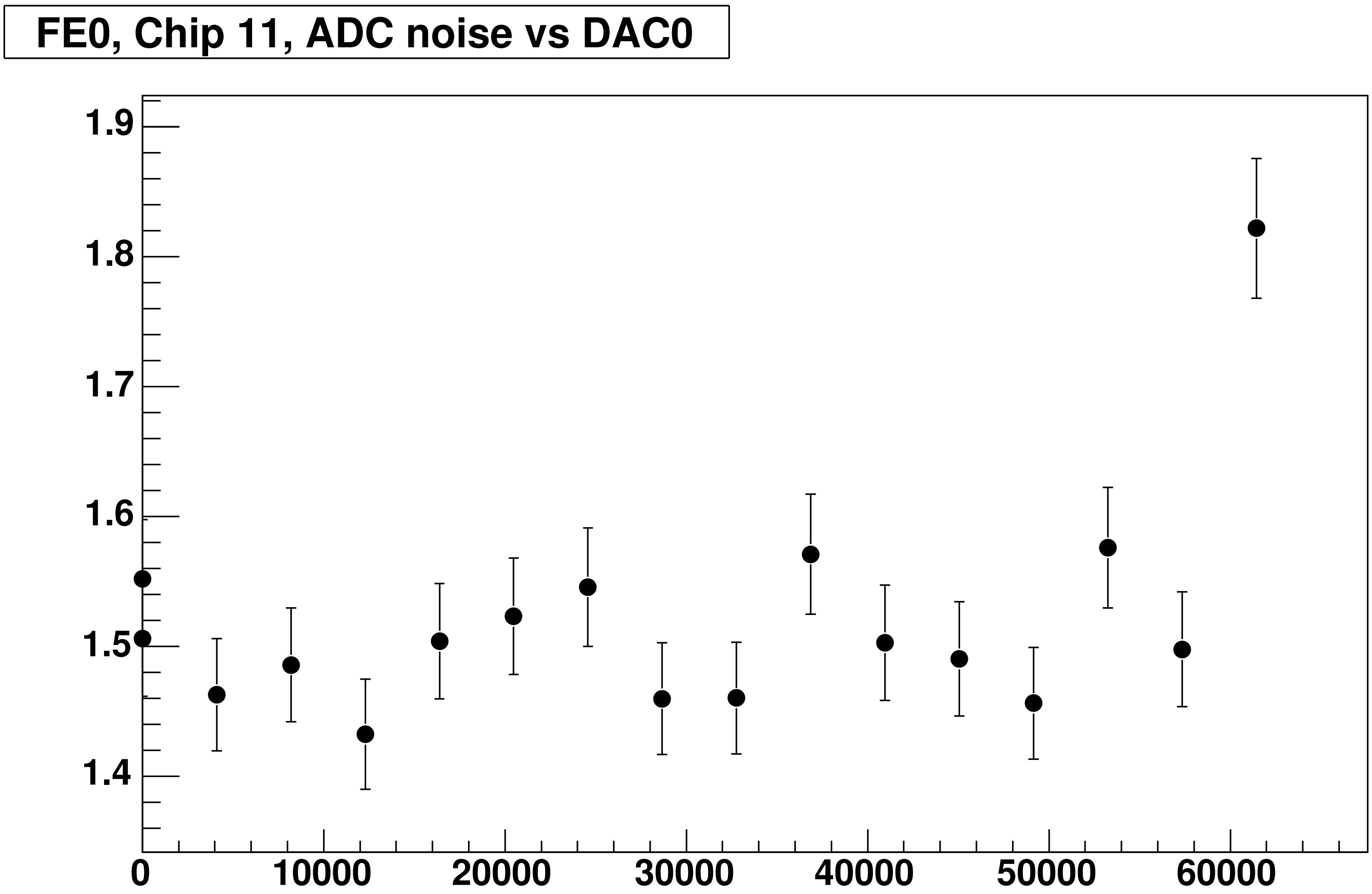
FE0, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1282 / 11
p0 19.26 ± 0.04282
p1 0.4501 ± 1.394e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

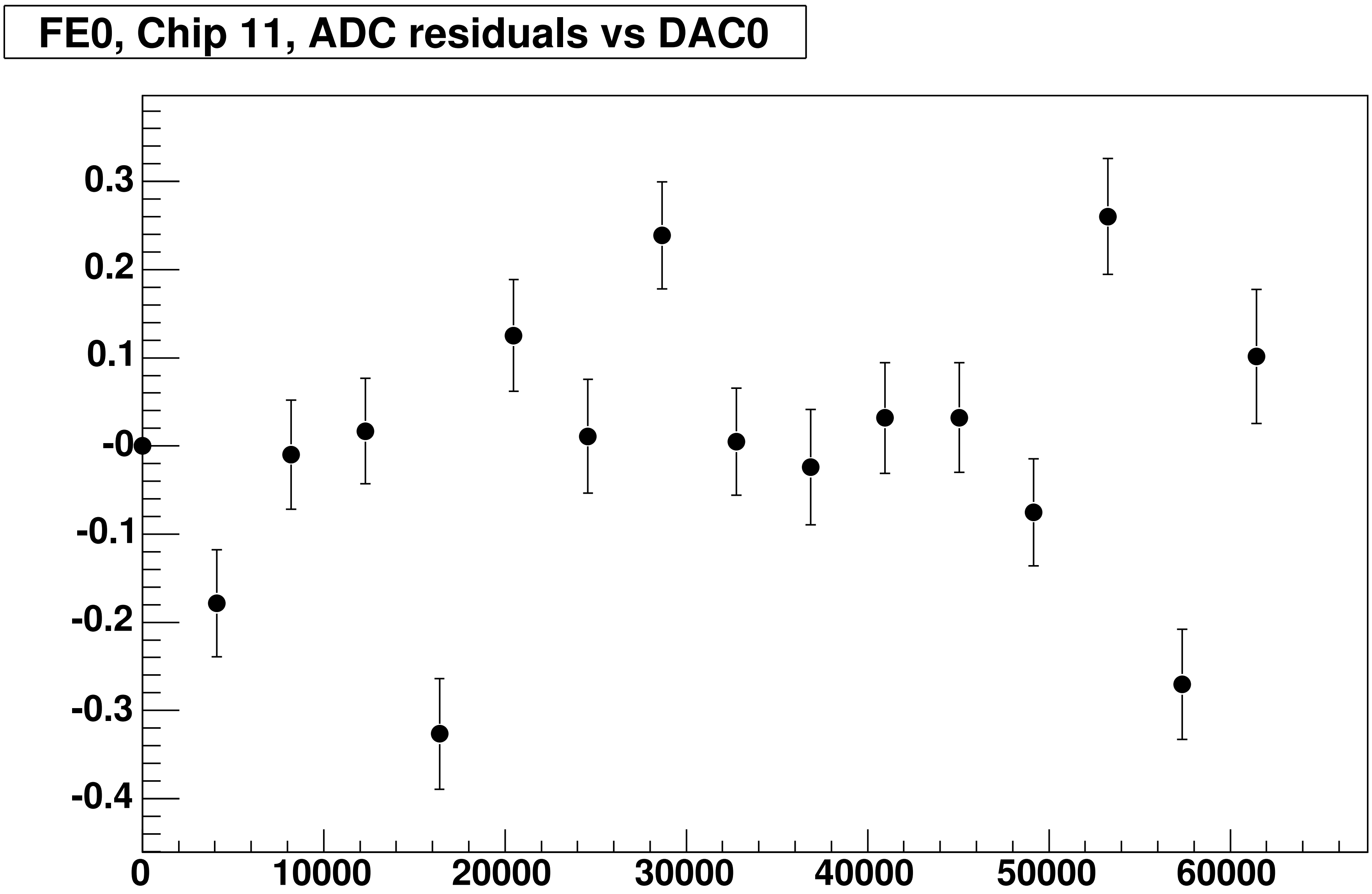

FE0, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

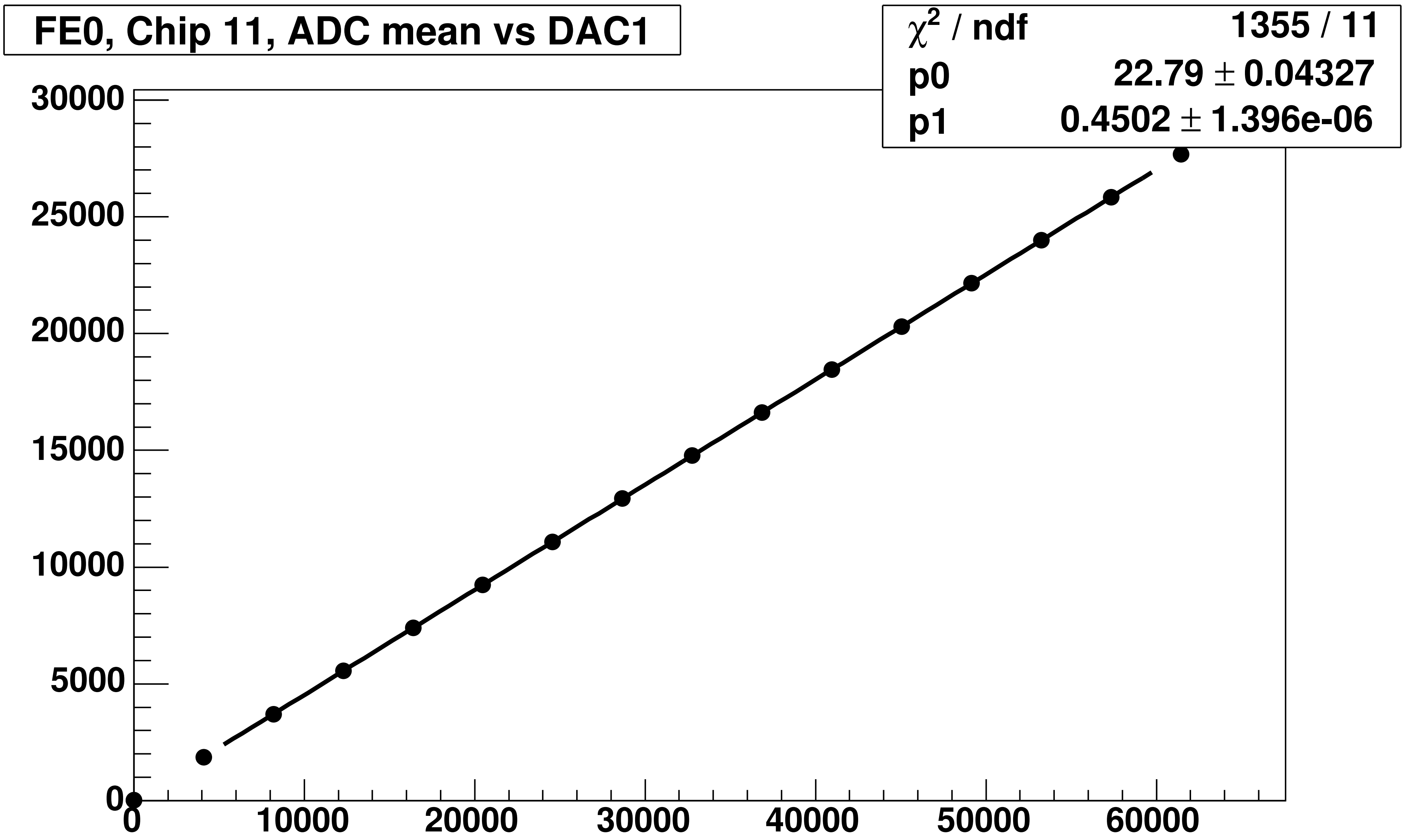


FE0, Chip 11, ADC mean vs DAC0
χ^2 / ndf 83.32 / 11
p0 19.98 ± 0.04057
p1 -4.76e-06 ± 1.127e-06
20.2
20.1
20
19.9
19.8
19.7
19.6
19.5
19.4
19.3
0
10000
20000
30000
40000
50000
60000

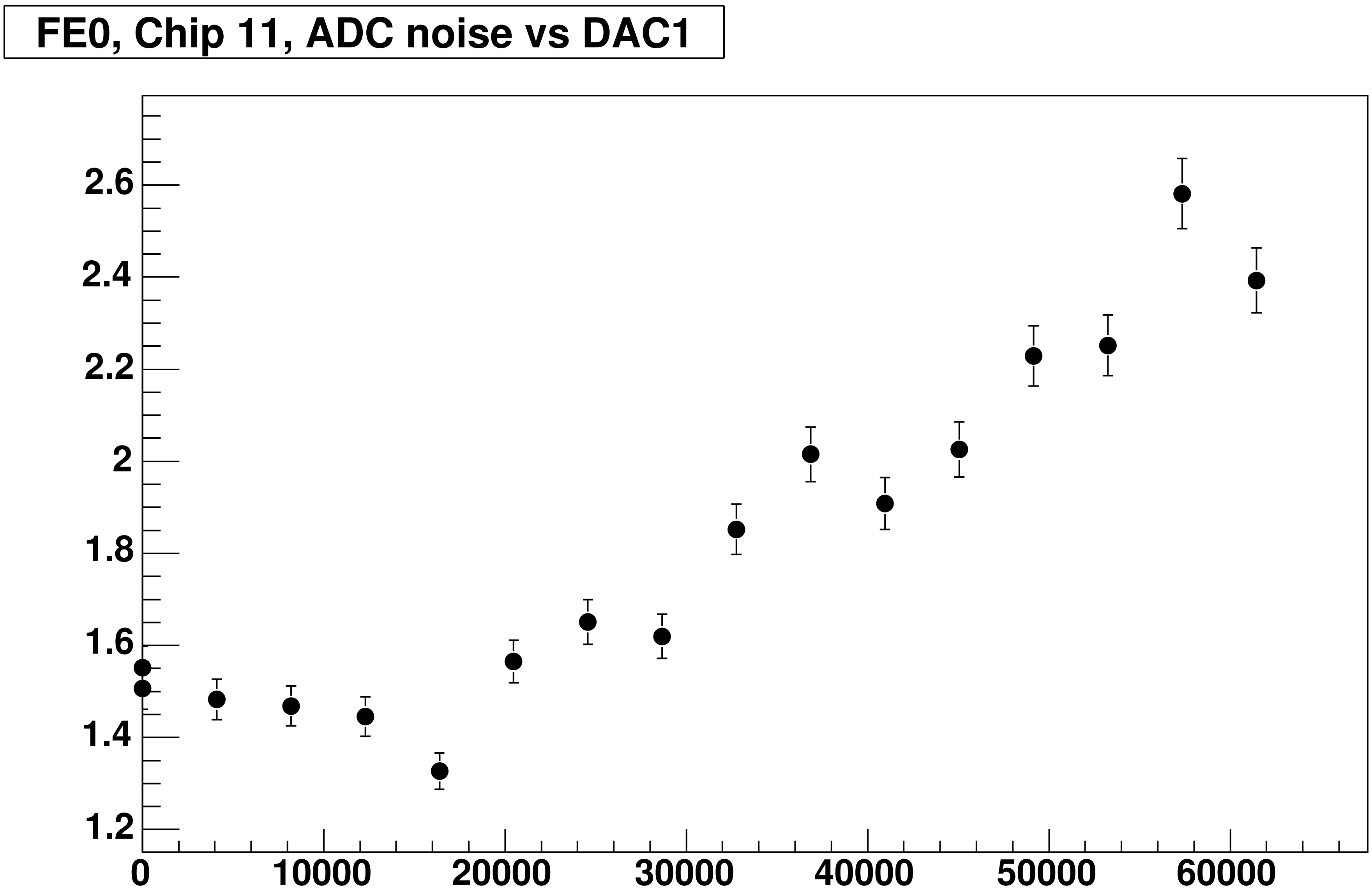


FE0, Chip 11, ADC noise vs DAC0
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

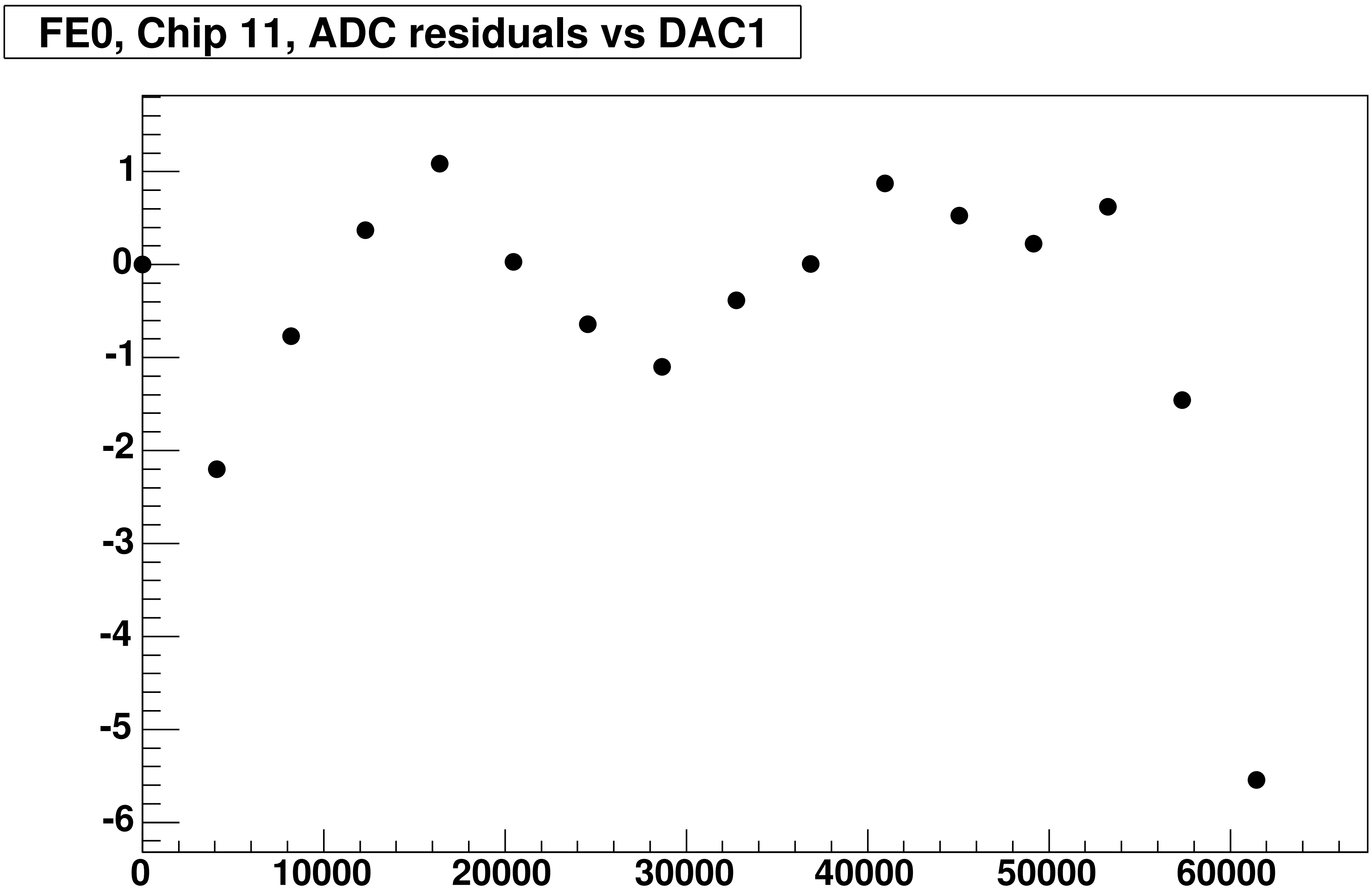

FE0, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



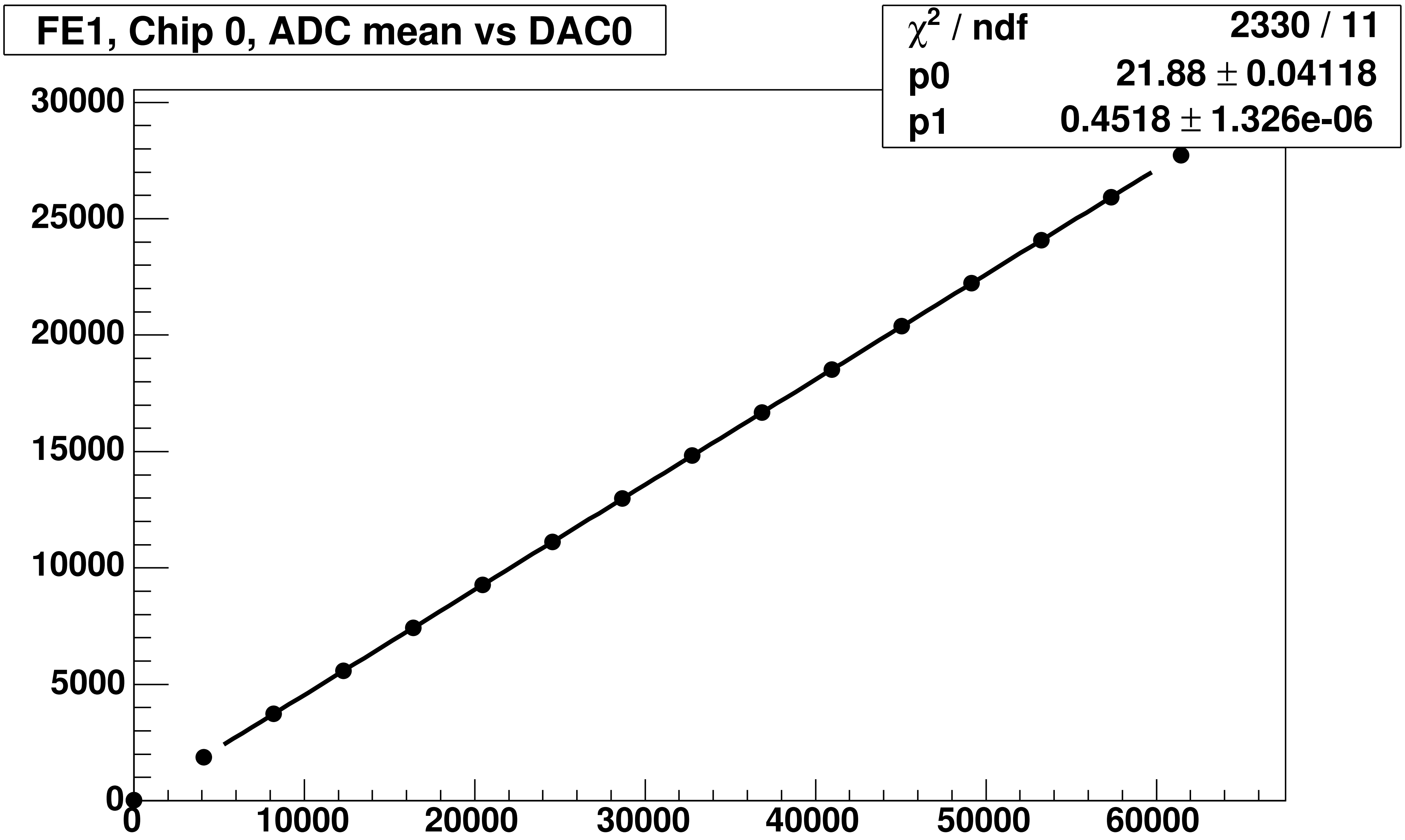
FE0, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1355 / 11
p0 22.79 ± 0.04327
p1 0.4502 ± 1.396e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000



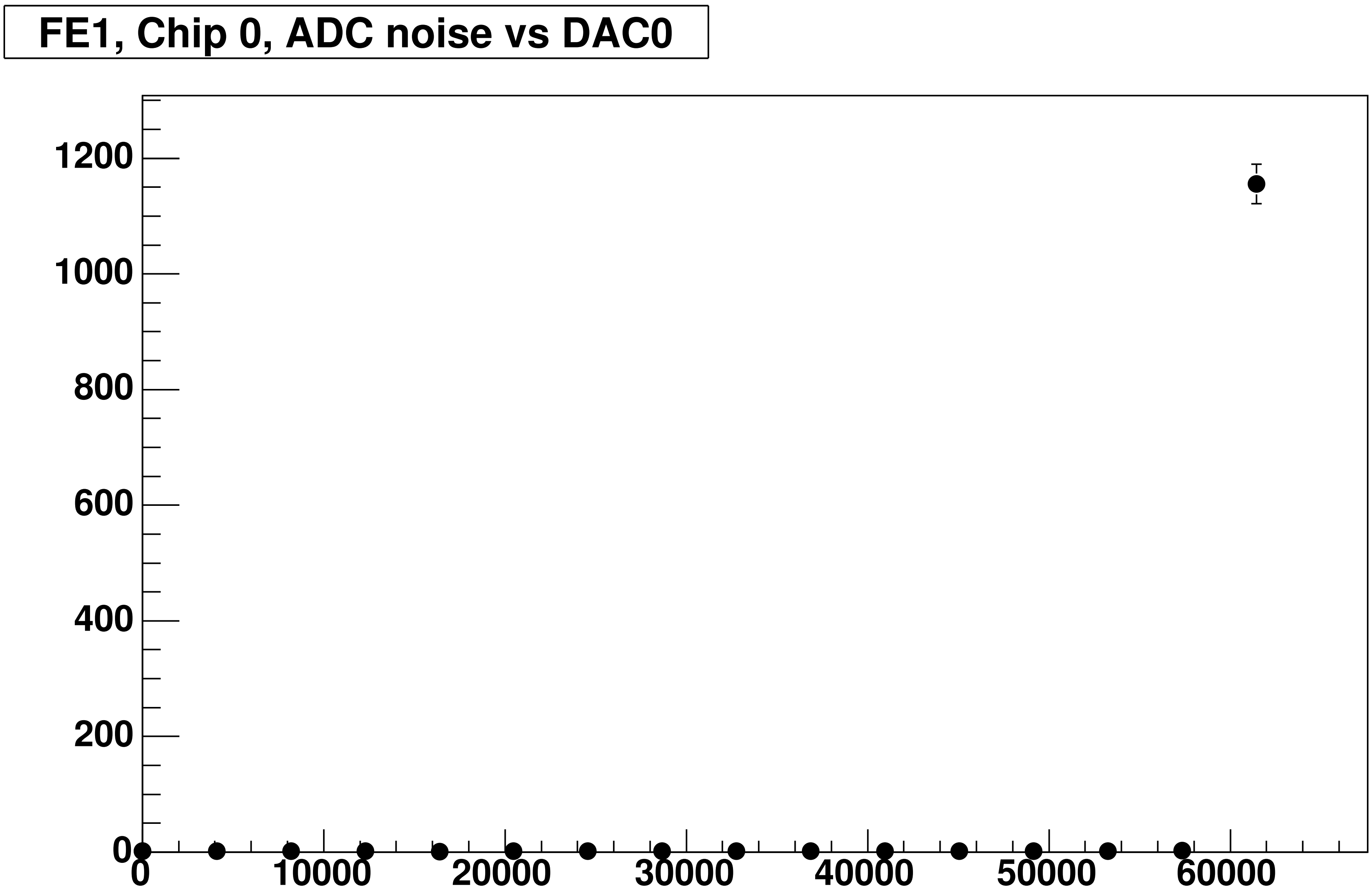
FE0, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



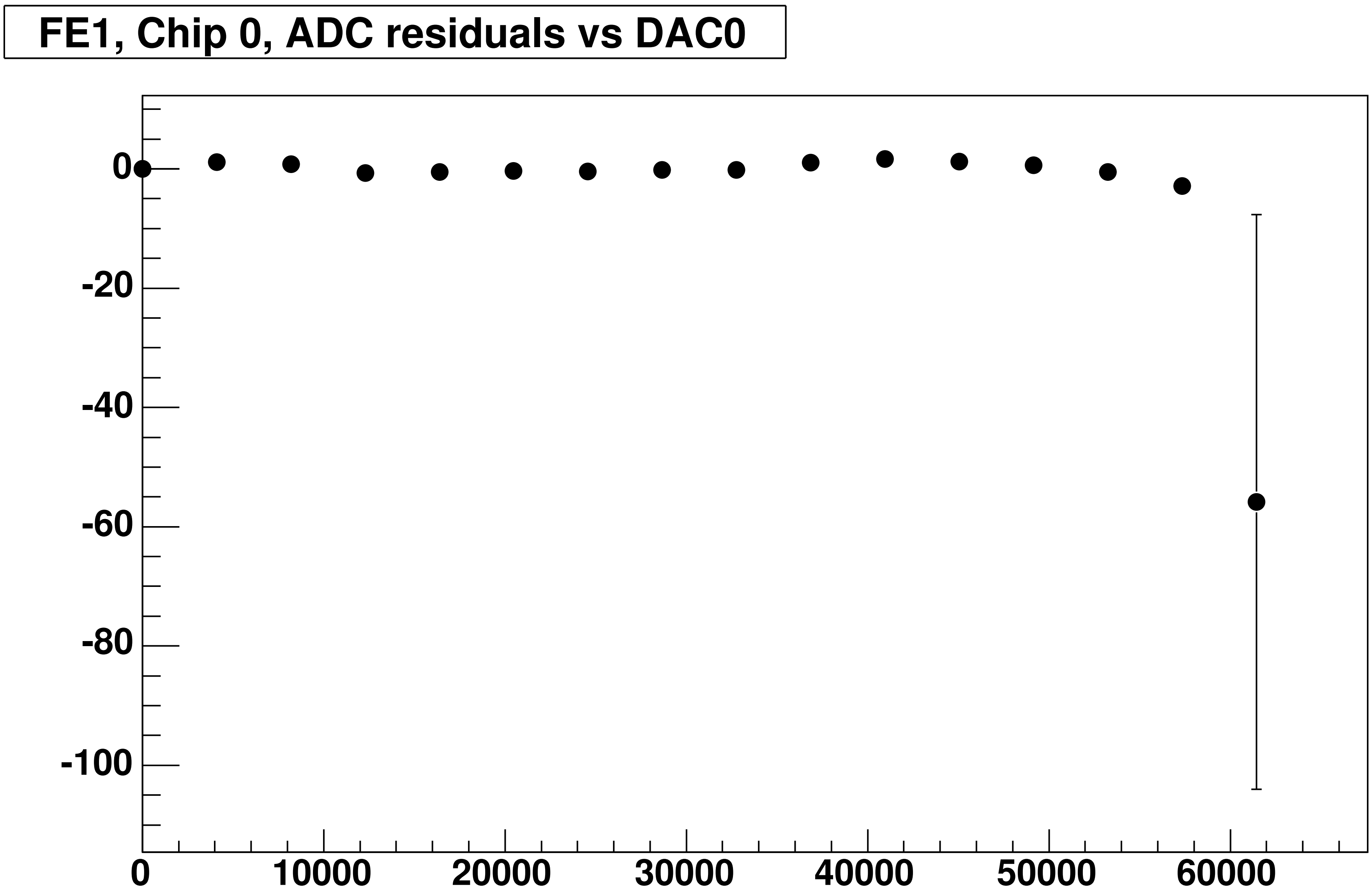
FE0, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

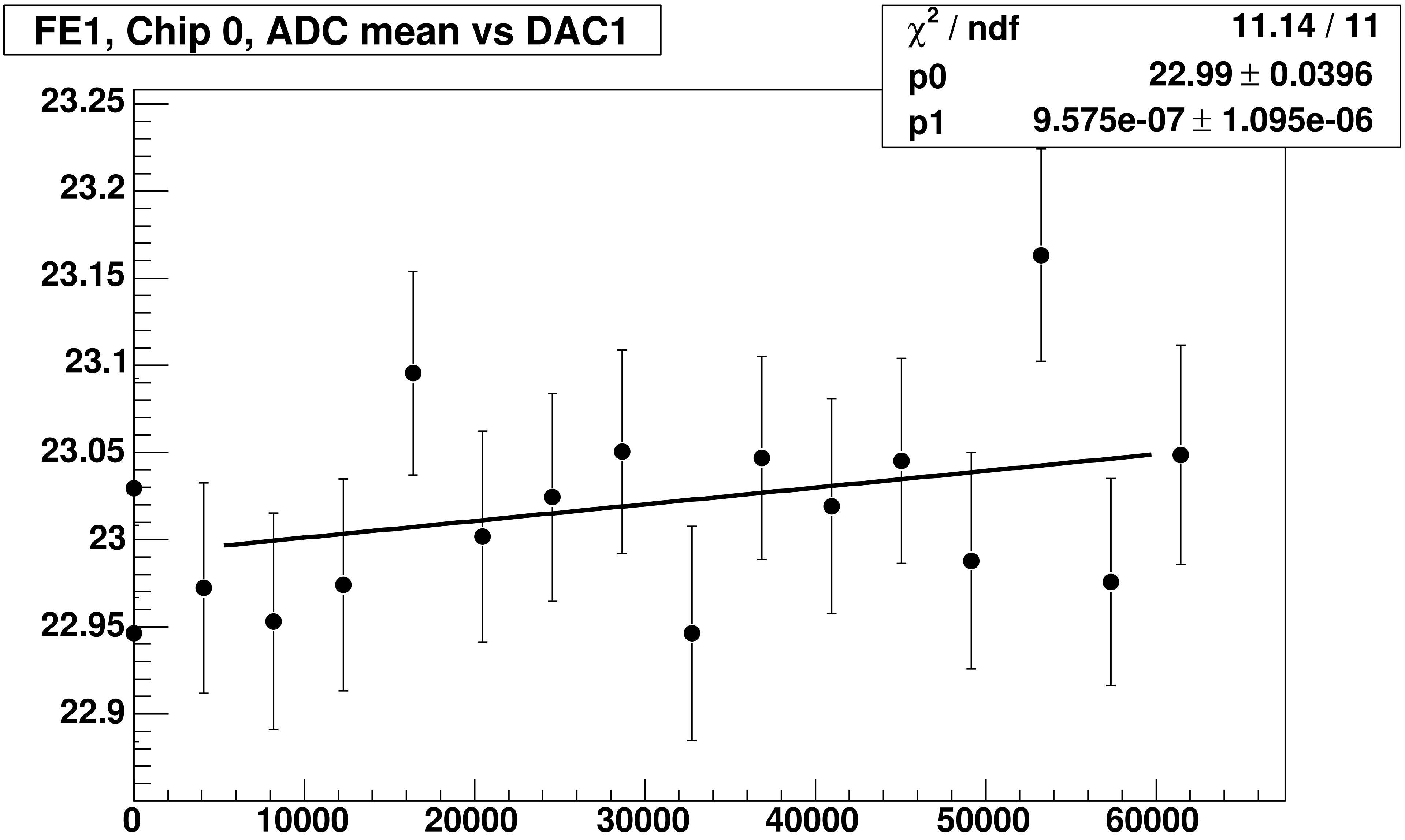


FE1, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2330 / 11
p0 21.88 ± 0.04118
p1 0.4518 ± 1.326e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

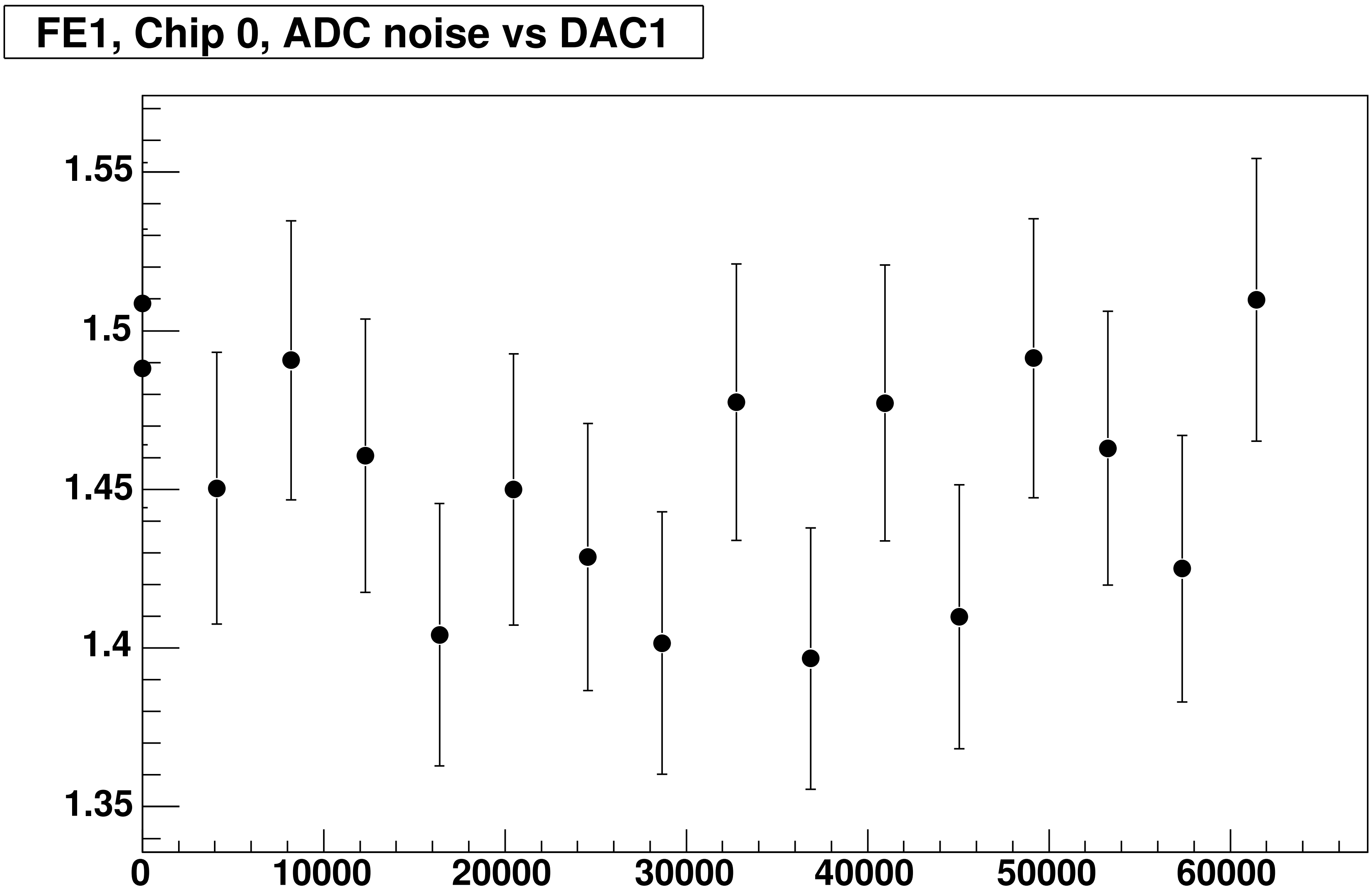


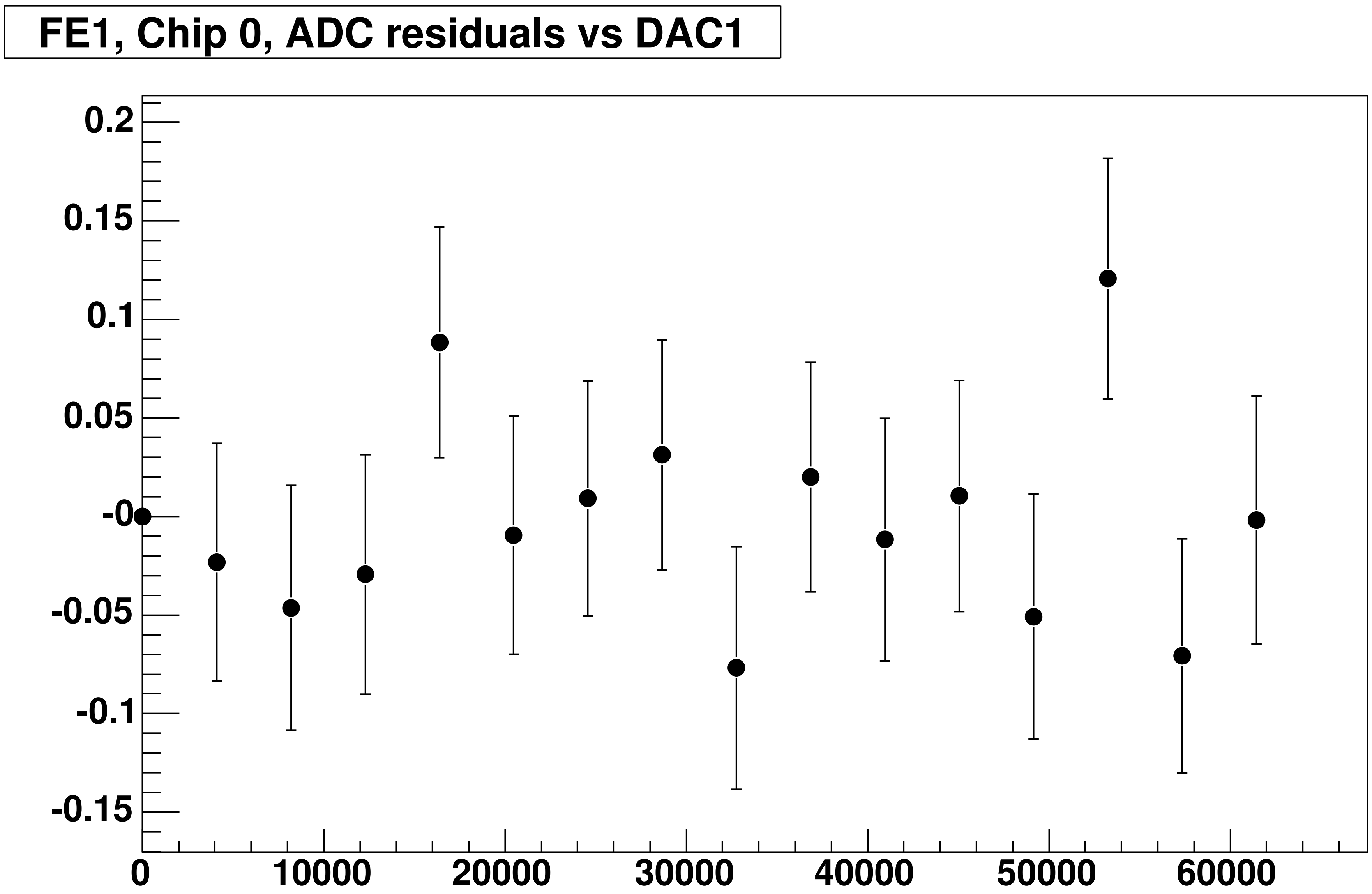
FE1, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

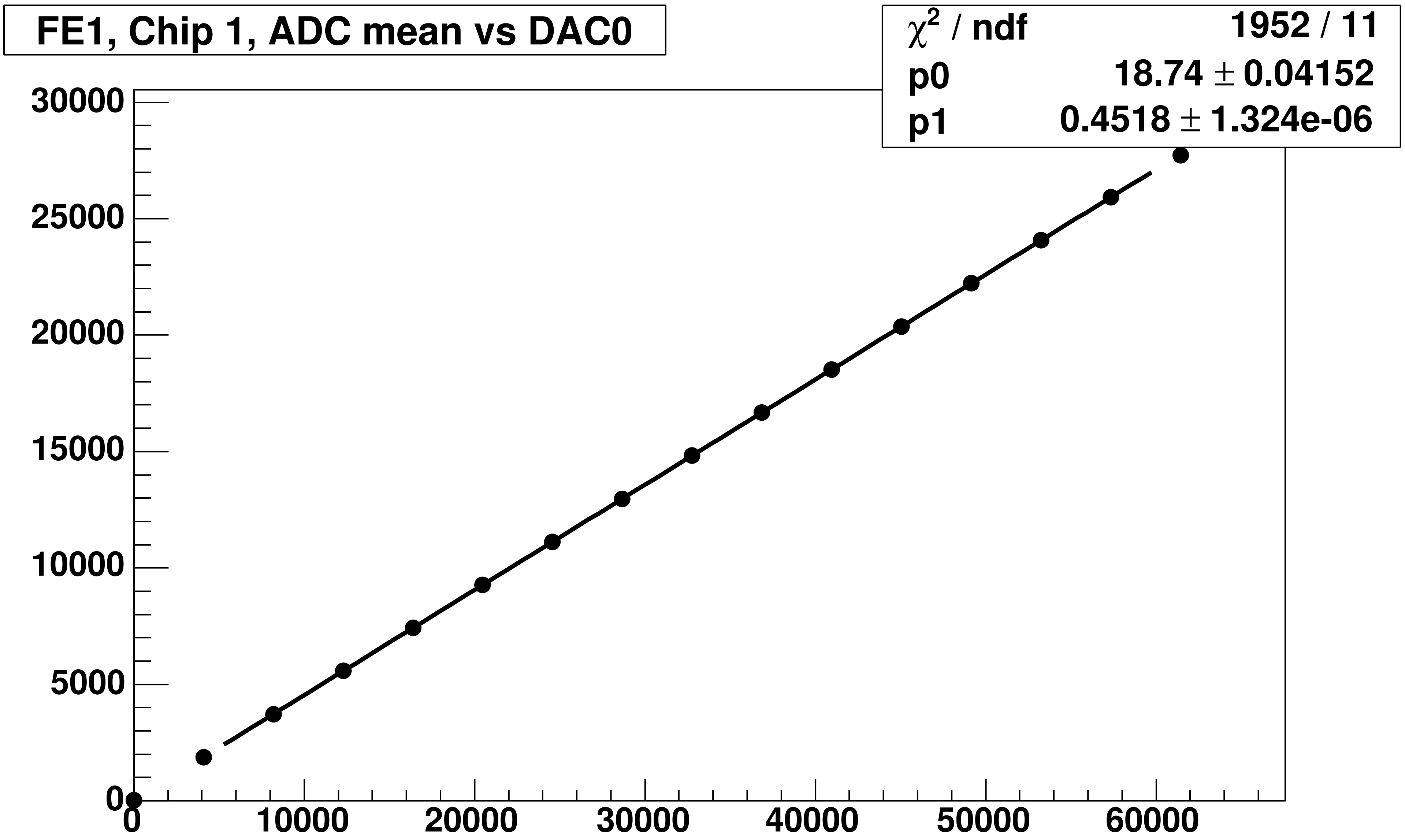


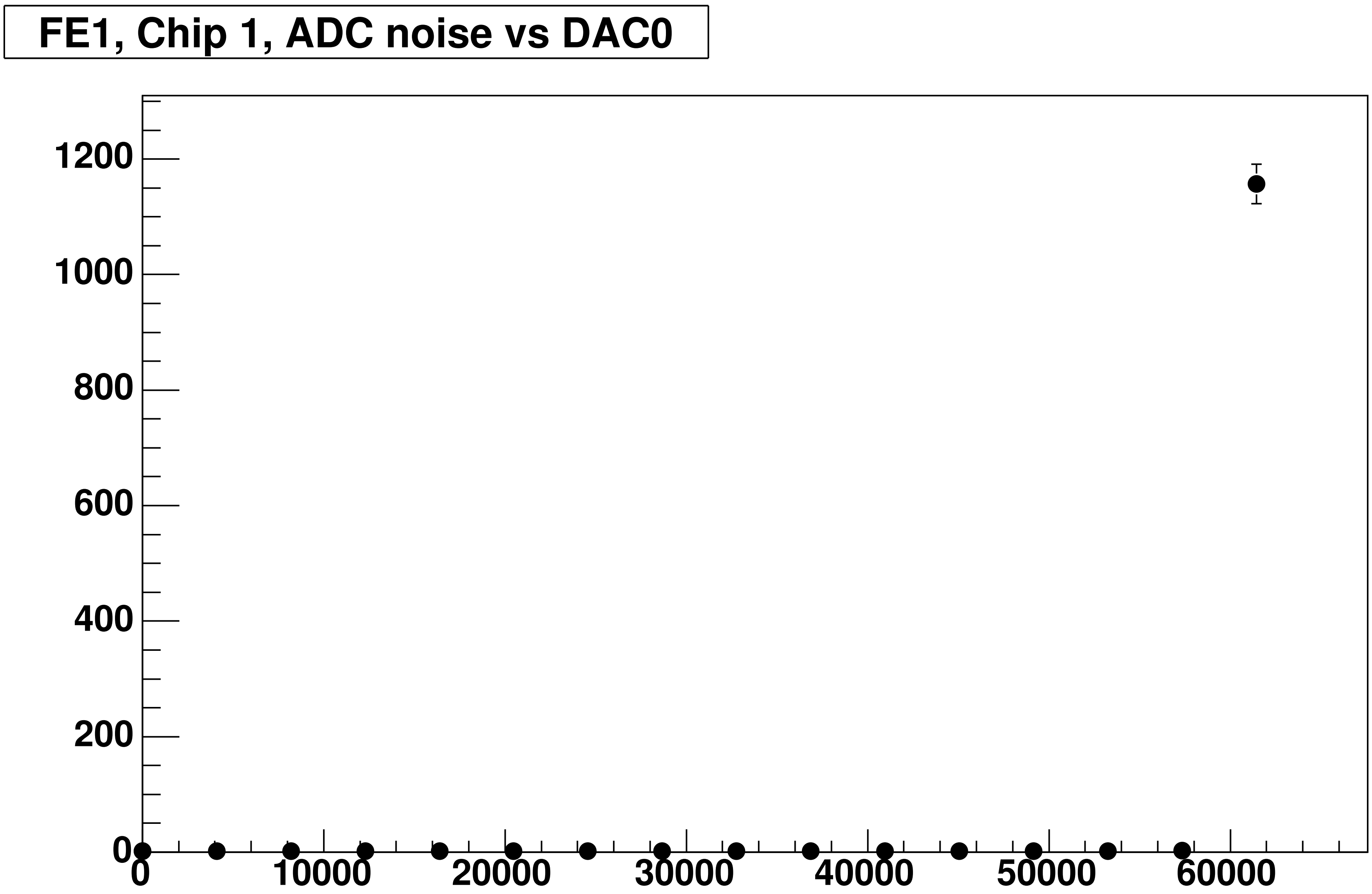
FE1, Chip 0, ADC mean vs DAC1
χ^2 / ndf 11.14 / 11
p0 22.99 ± 0.0396
p1 9.575e-07 ± 1.095e-06
23.25
23.2
23.15
23.1
23.05
23
22.95
22.9
0
10000
20000
30000
40000
50000
60000

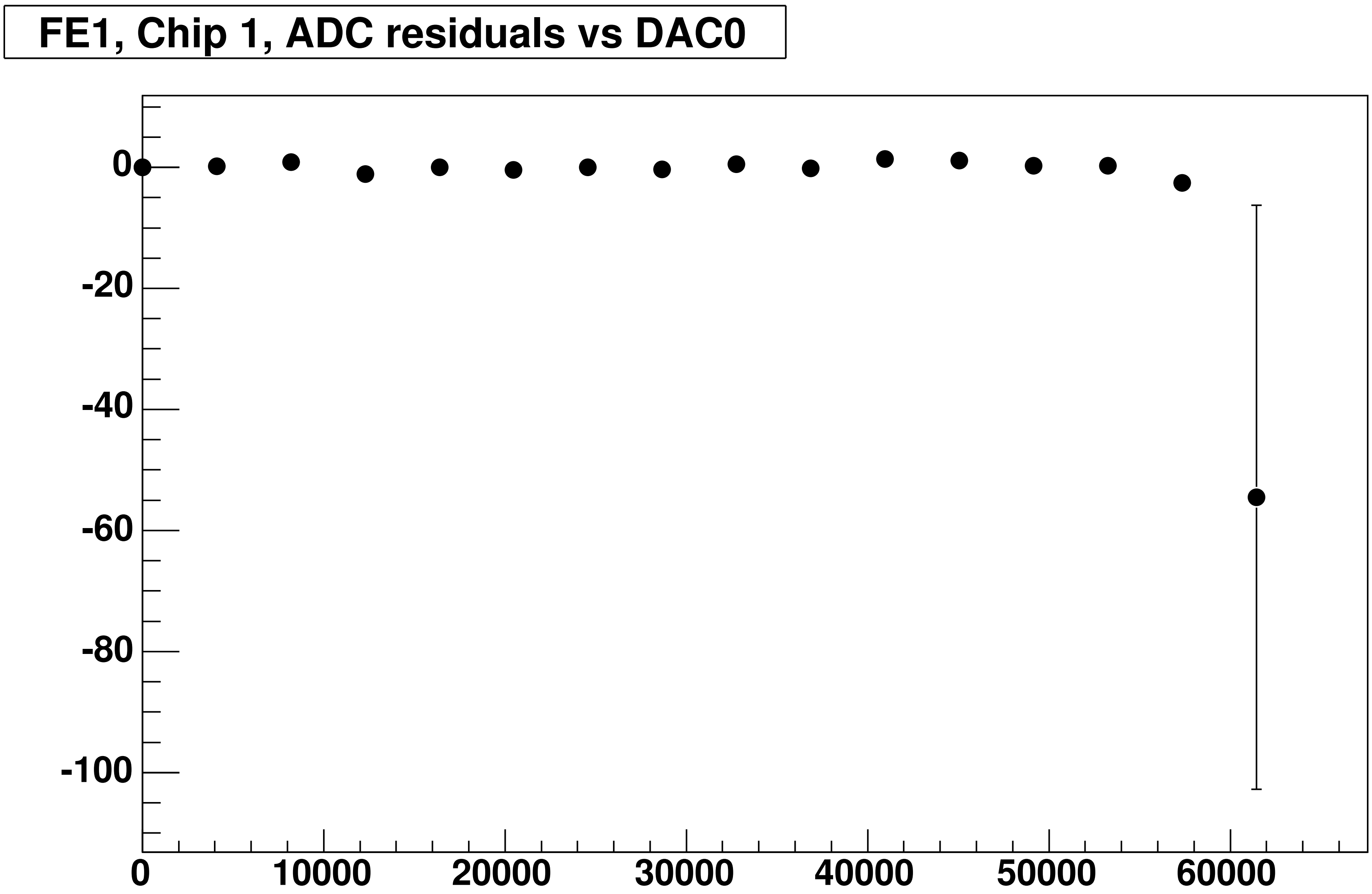

FE1, Chip 0, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



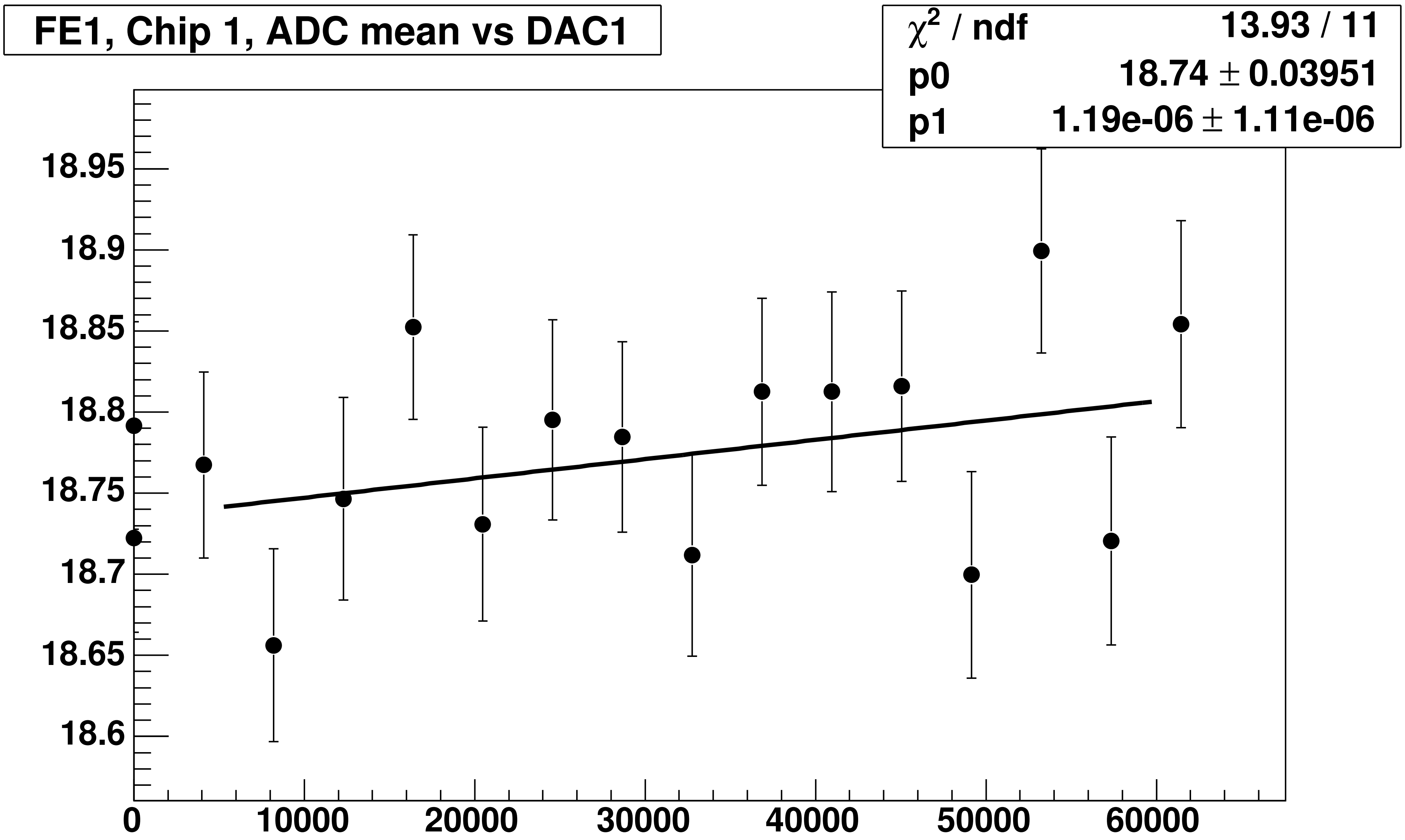
FE1, Chip 0, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

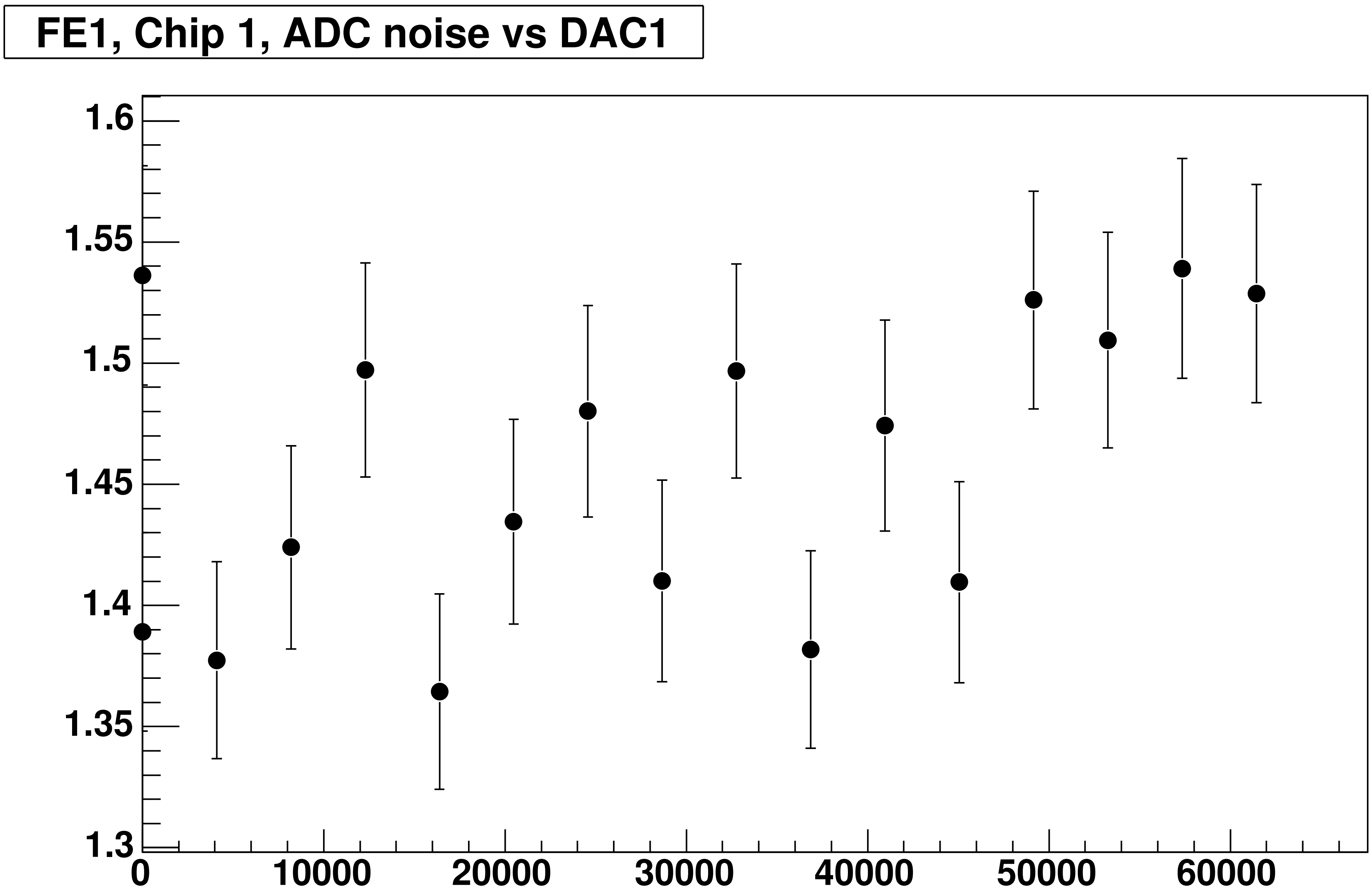

FE1, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1952 / 11
p0 18.74 ± 0.04152
p1 0.4518 ± 1.324e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

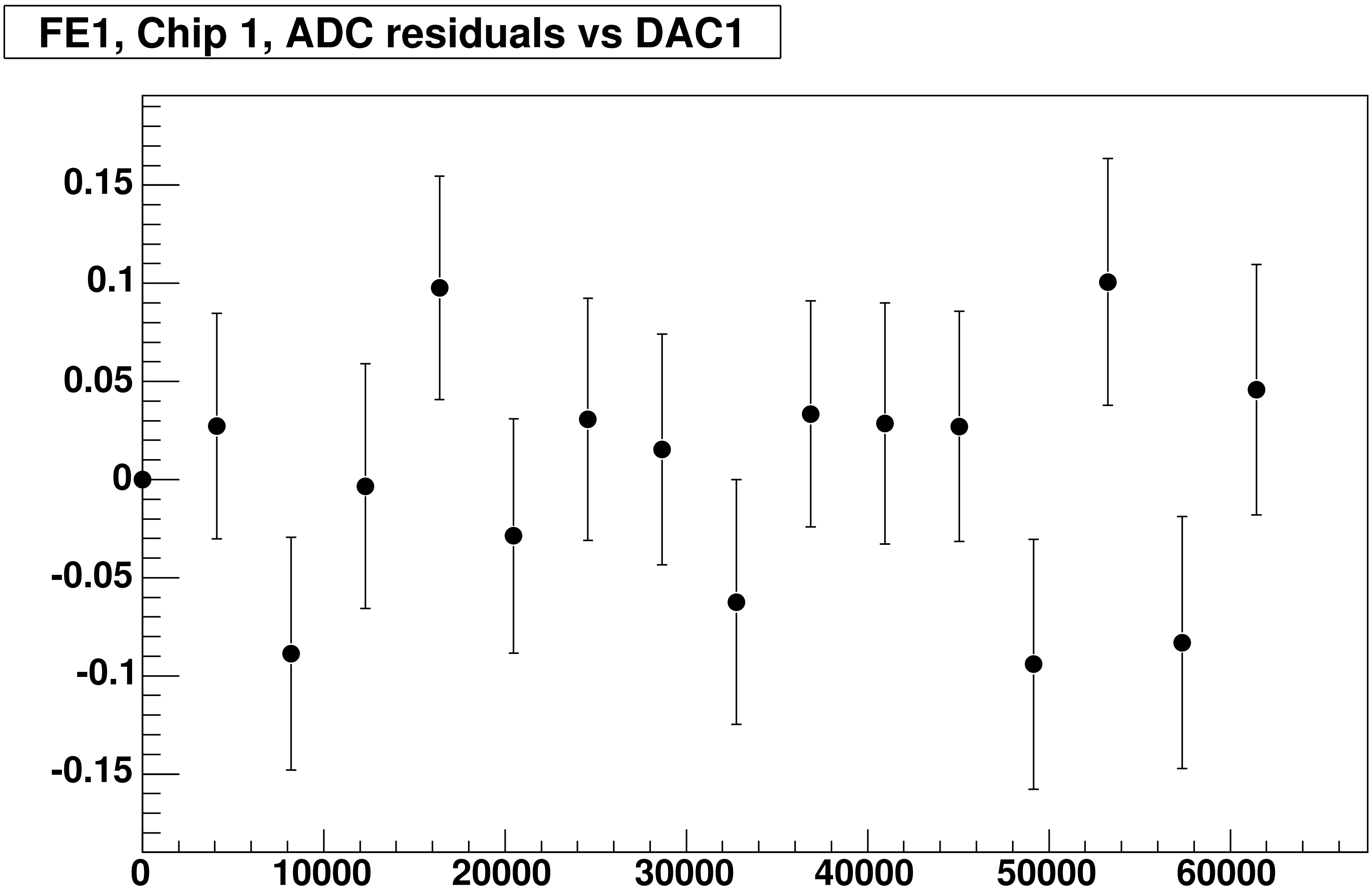


FE1, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

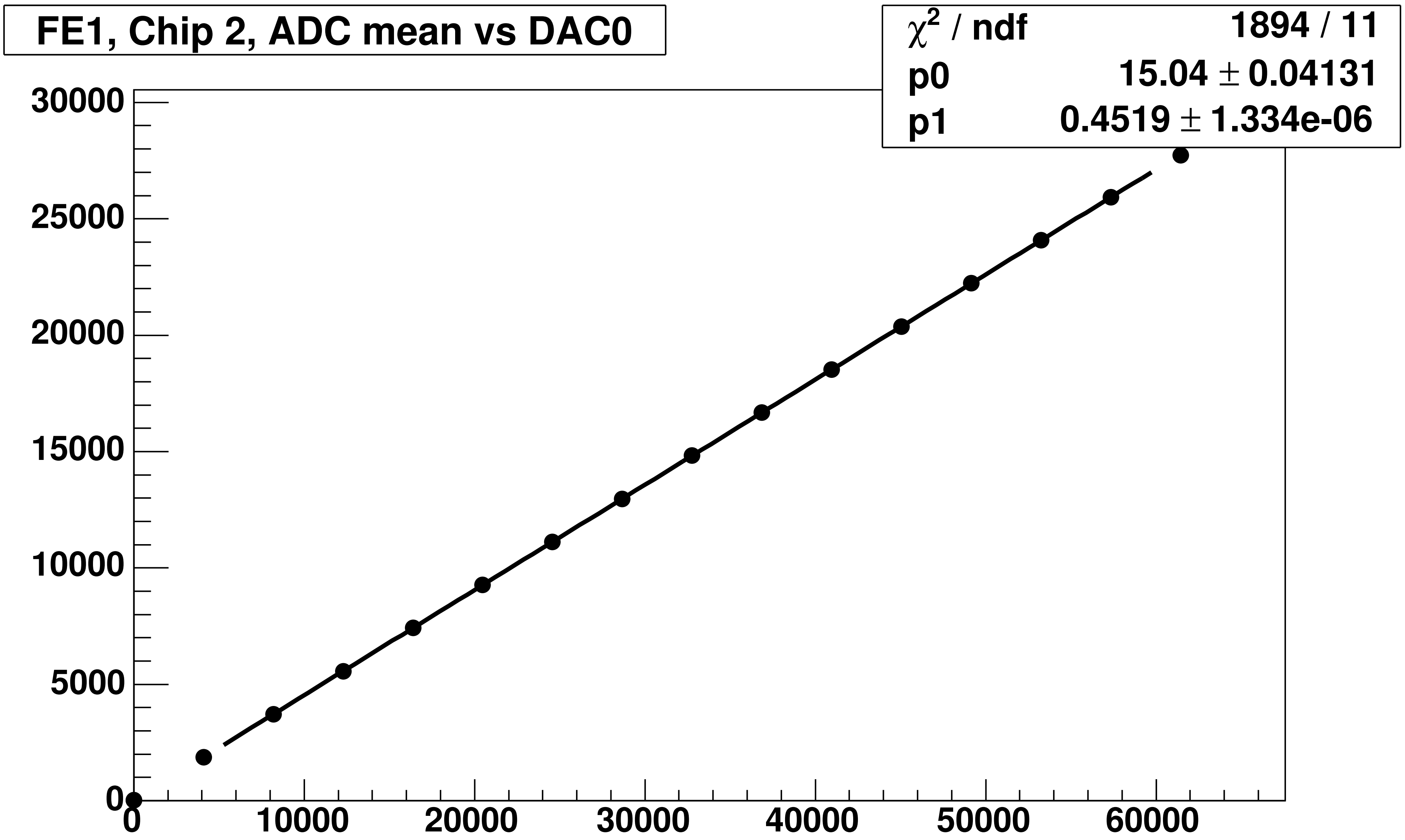

FE1, Chip 1, ADC mean vs DAC1
χ^2 / ndf 13.93 / 11
p0 18.74 ± 0.03951
p1 1.19e-06 ± 1.11e-06
18.95
18.9
18.85
18.8
18.75
18.7
18.65
18.6
0
10000
20000
30000
40000
50000
60000



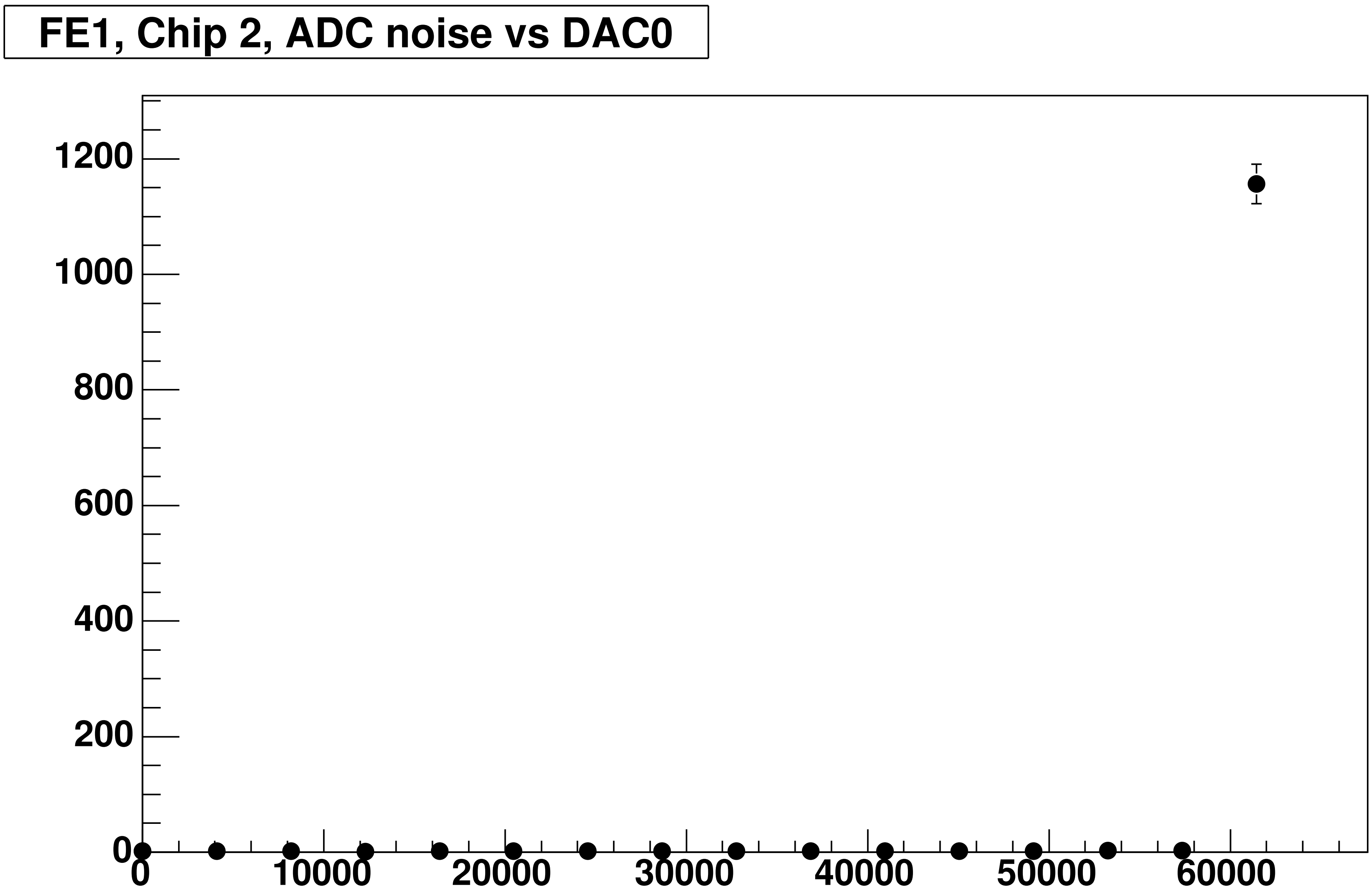
FE1, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

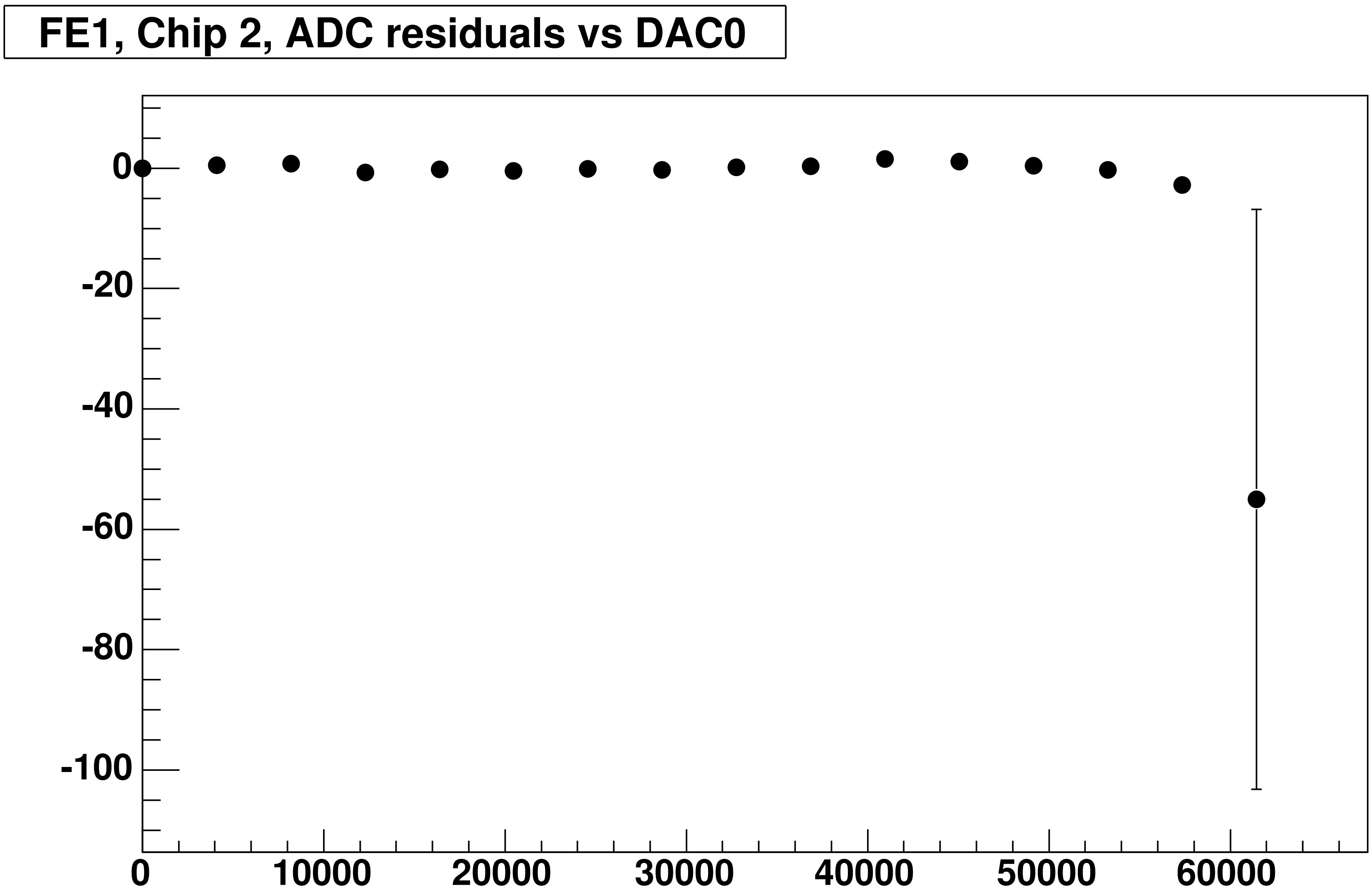


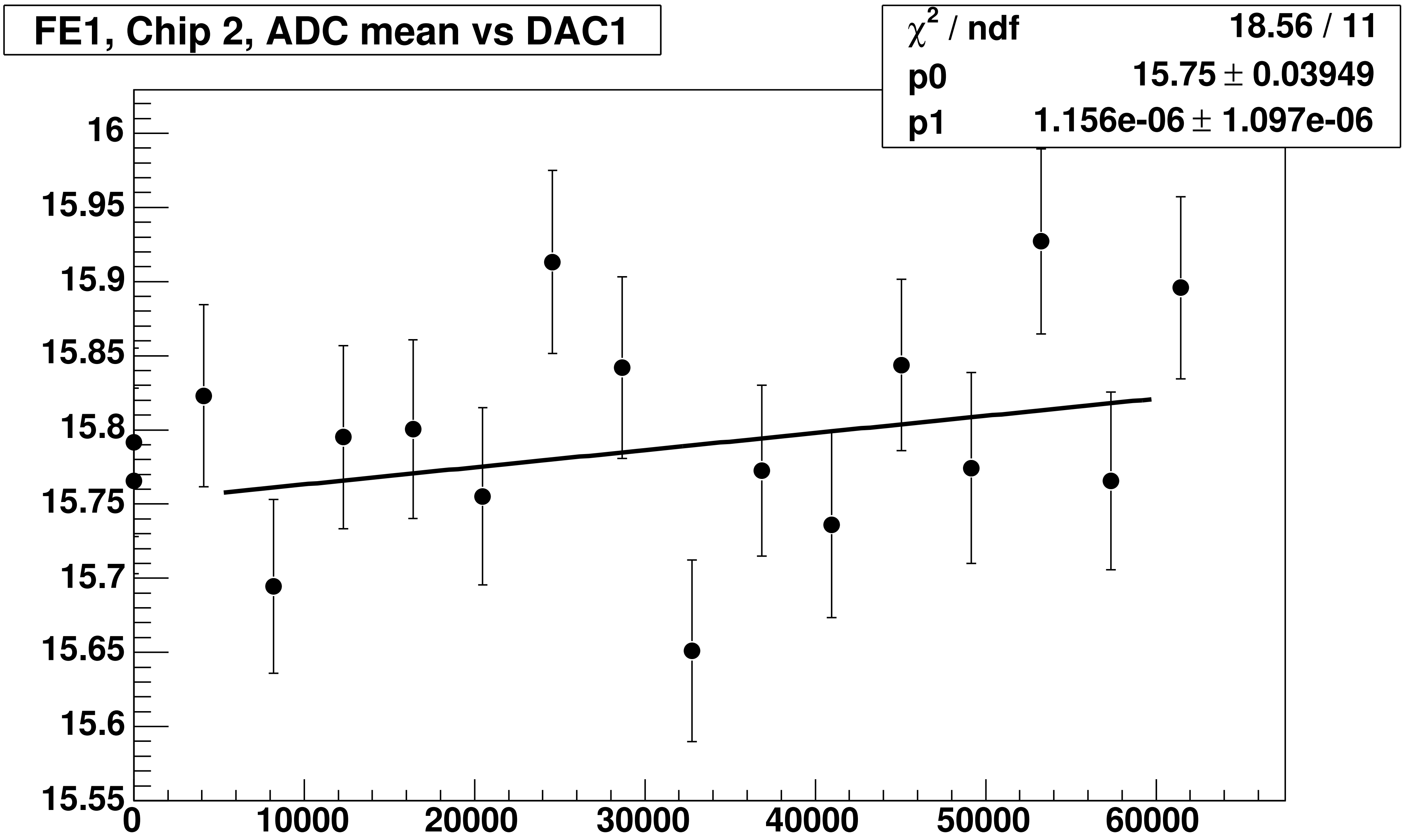
FE1, Chip 1, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



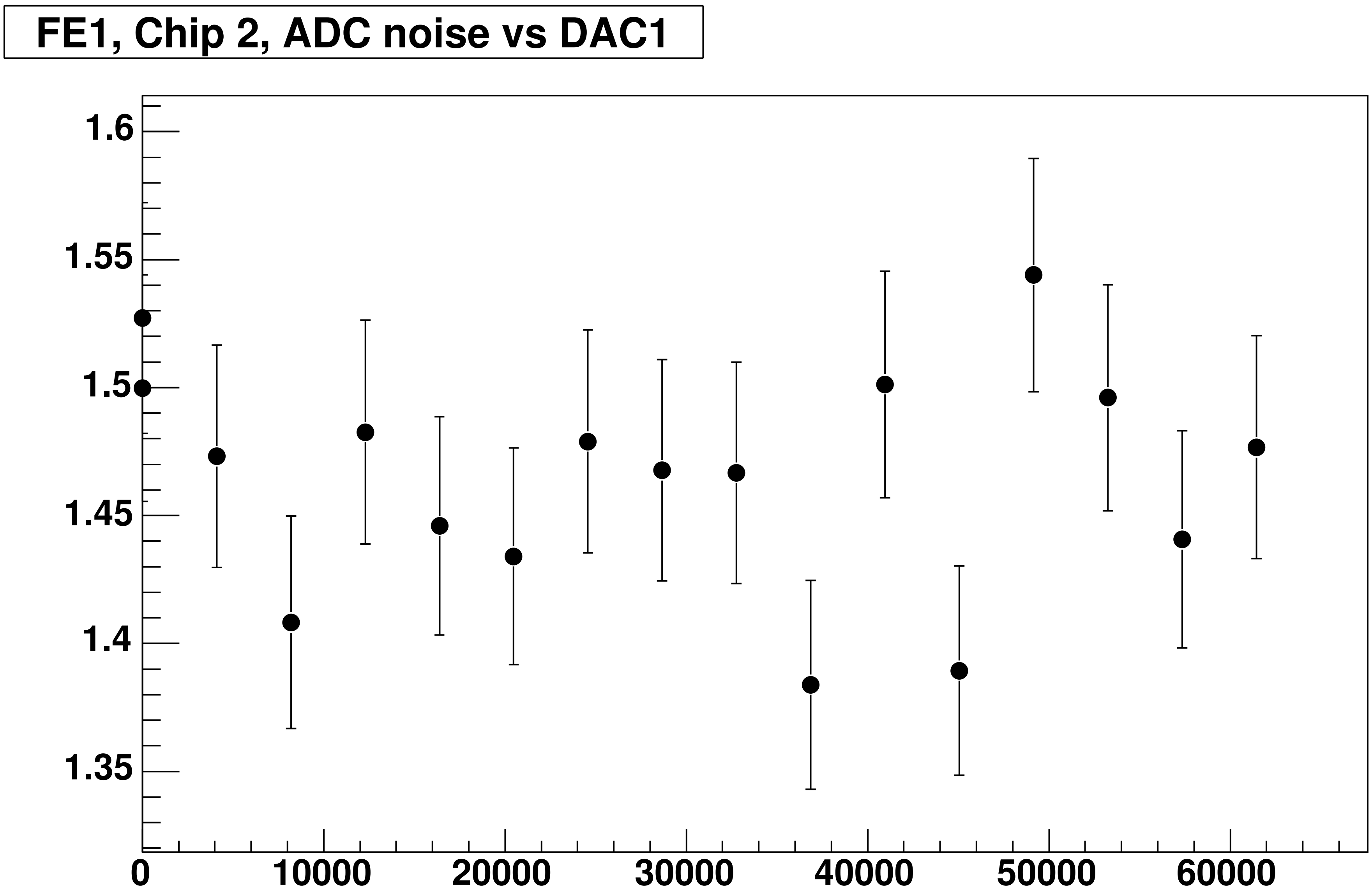
FE1, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1894 / 11
p0 15.04 ± 0.04131
p1 0.4519 ± 1.334e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

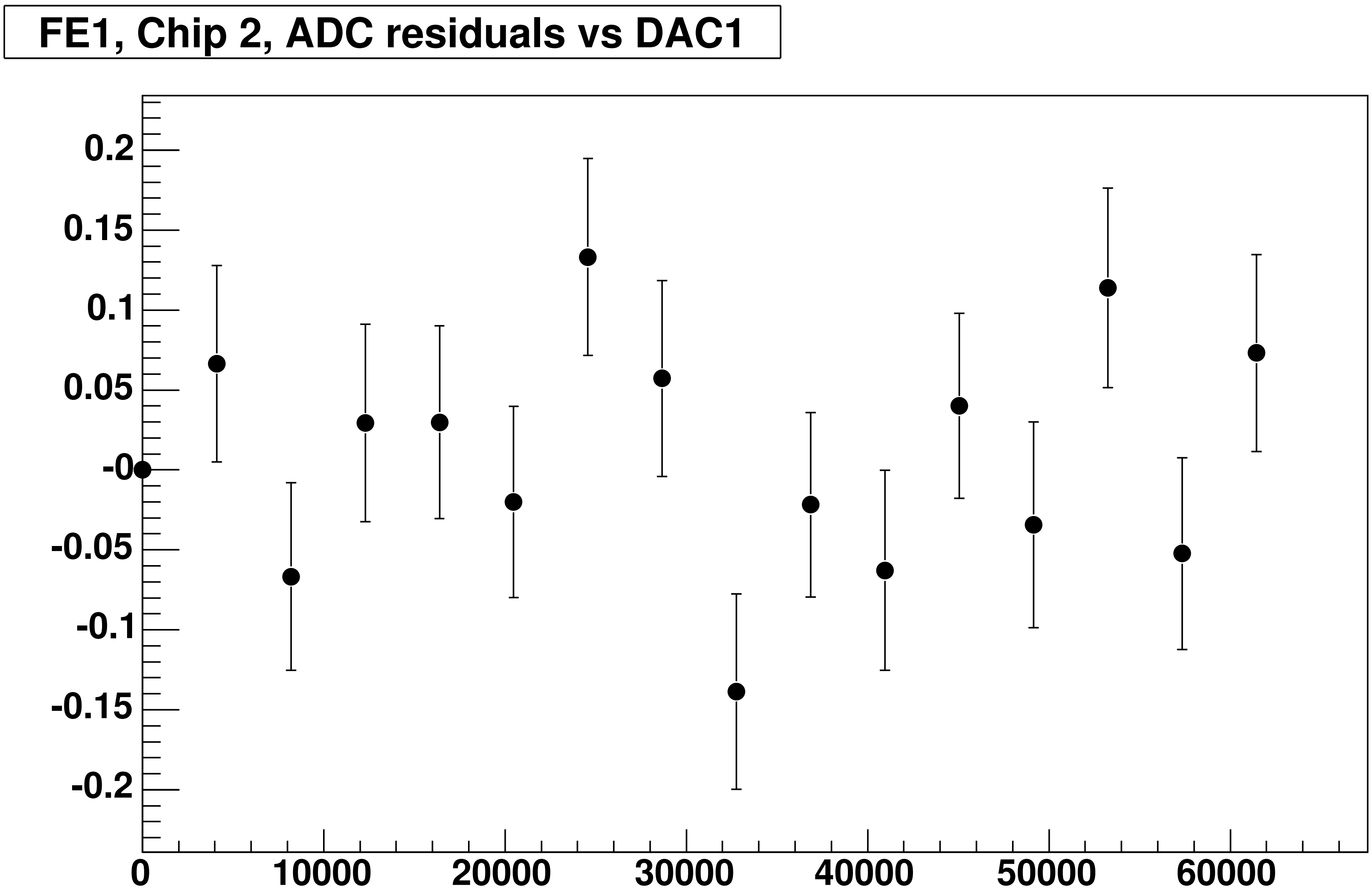

FE1, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

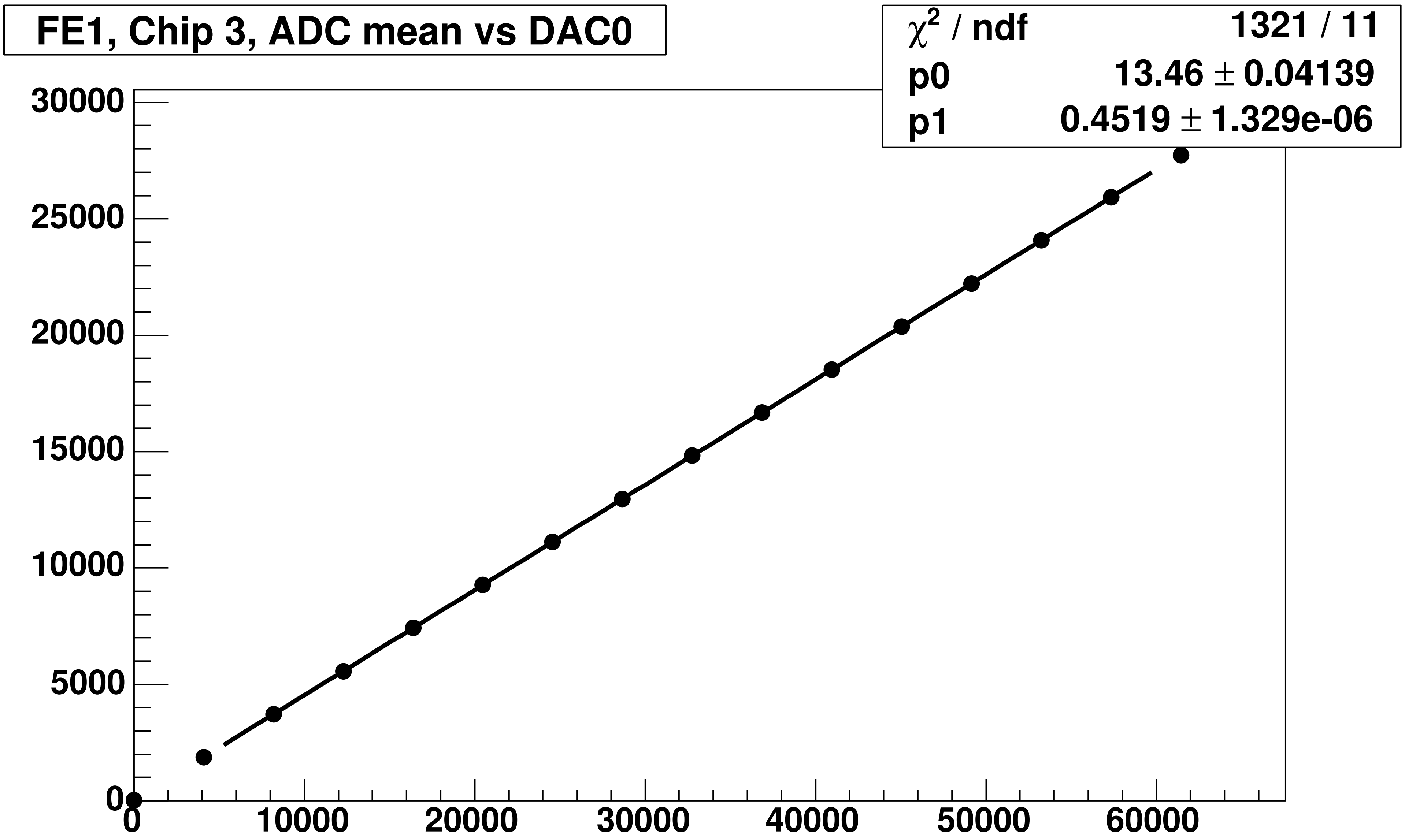

FE1, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



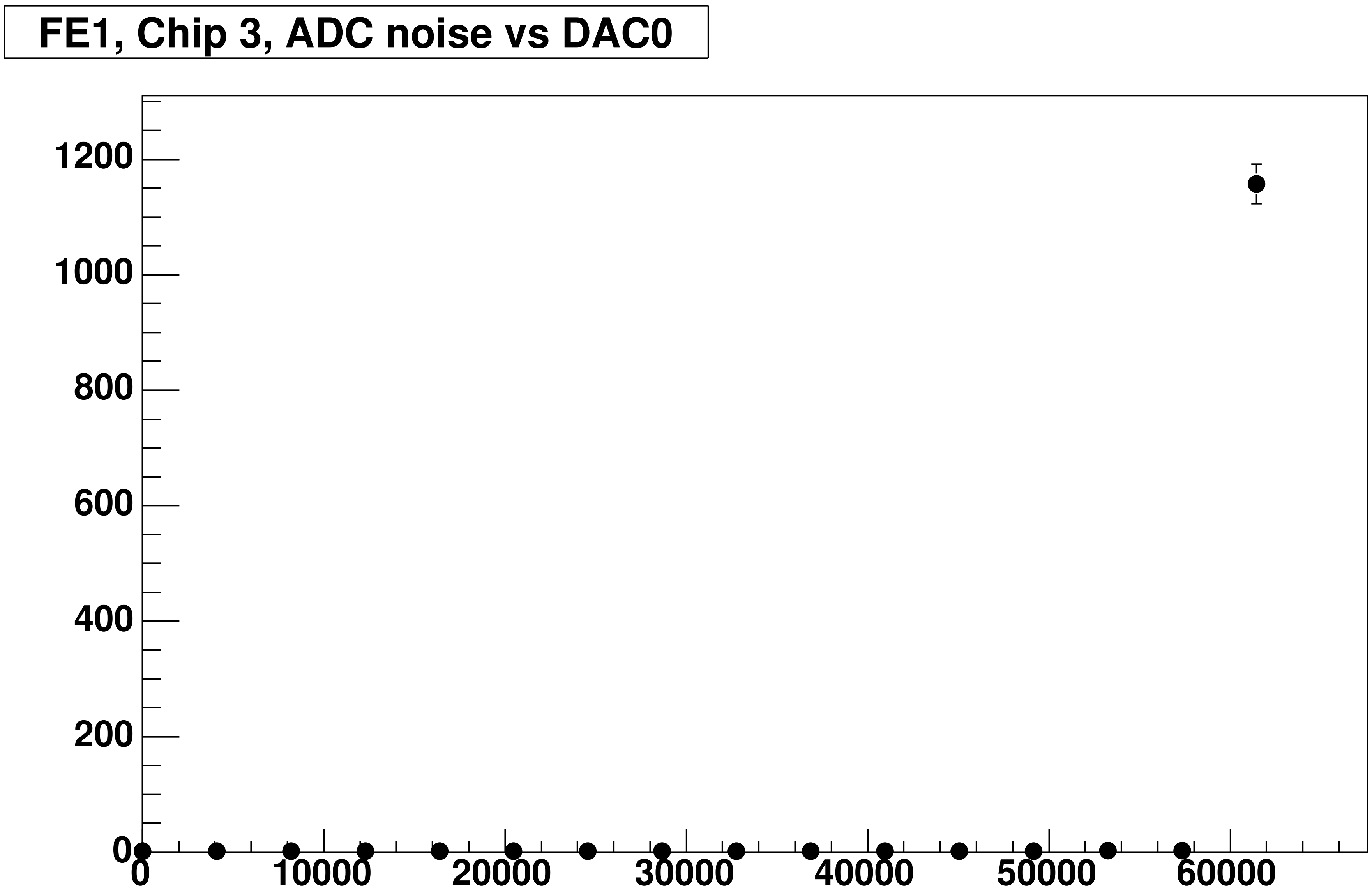
FE1, Chip 2, ADC mean vs DAC1
χ^2 / ndf 18.56 / 11
p0 15.75 ± 0.03949
p1 1.156e-06 ± 1.097e-06
16
15.95
15.9
15.85
15.8
15.75
15.7
15.65
15.6
15.55
0
10000
20000
30000
40000
50000
60000


FE1, 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

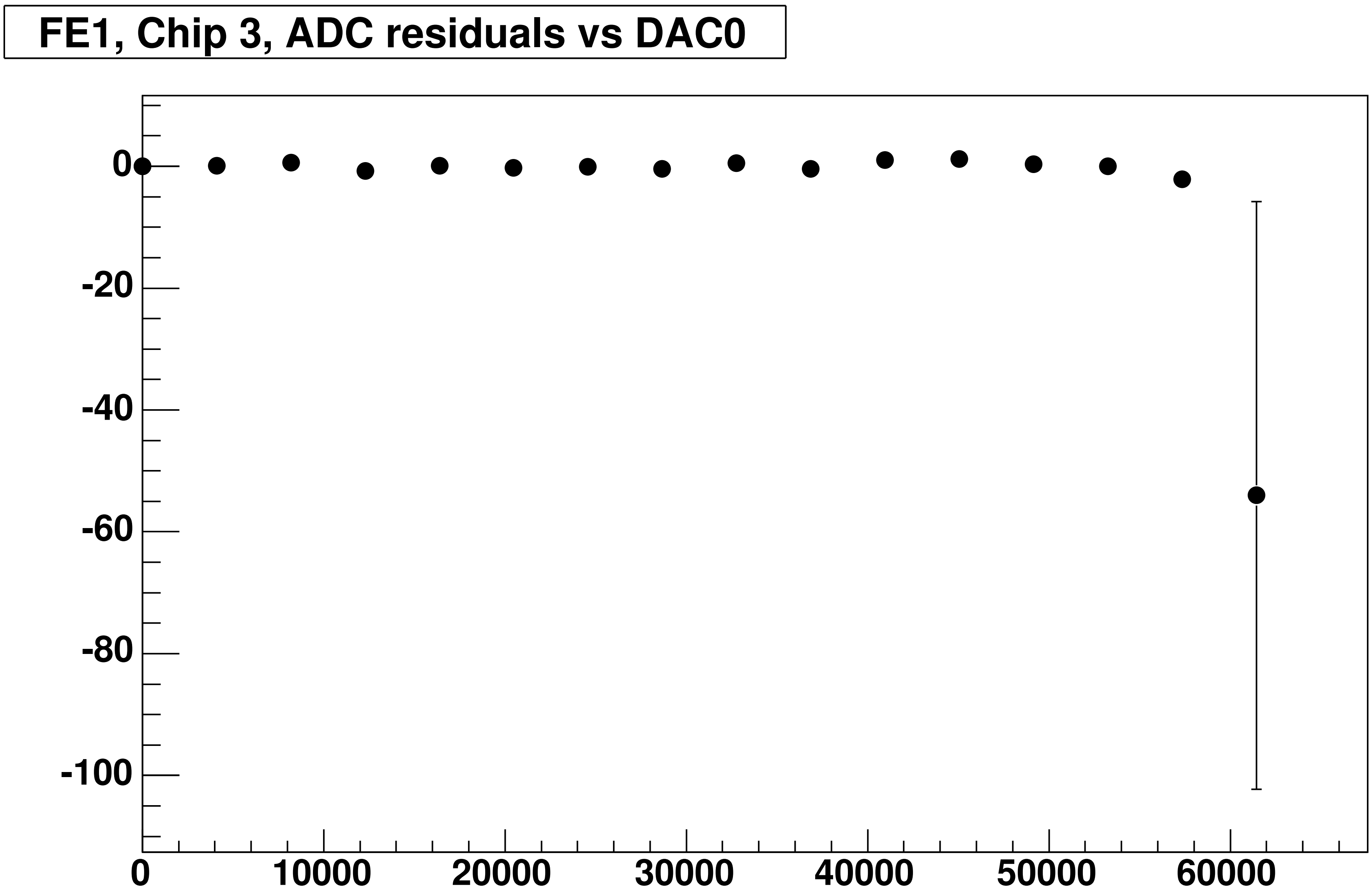

FE1, Chip 2, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

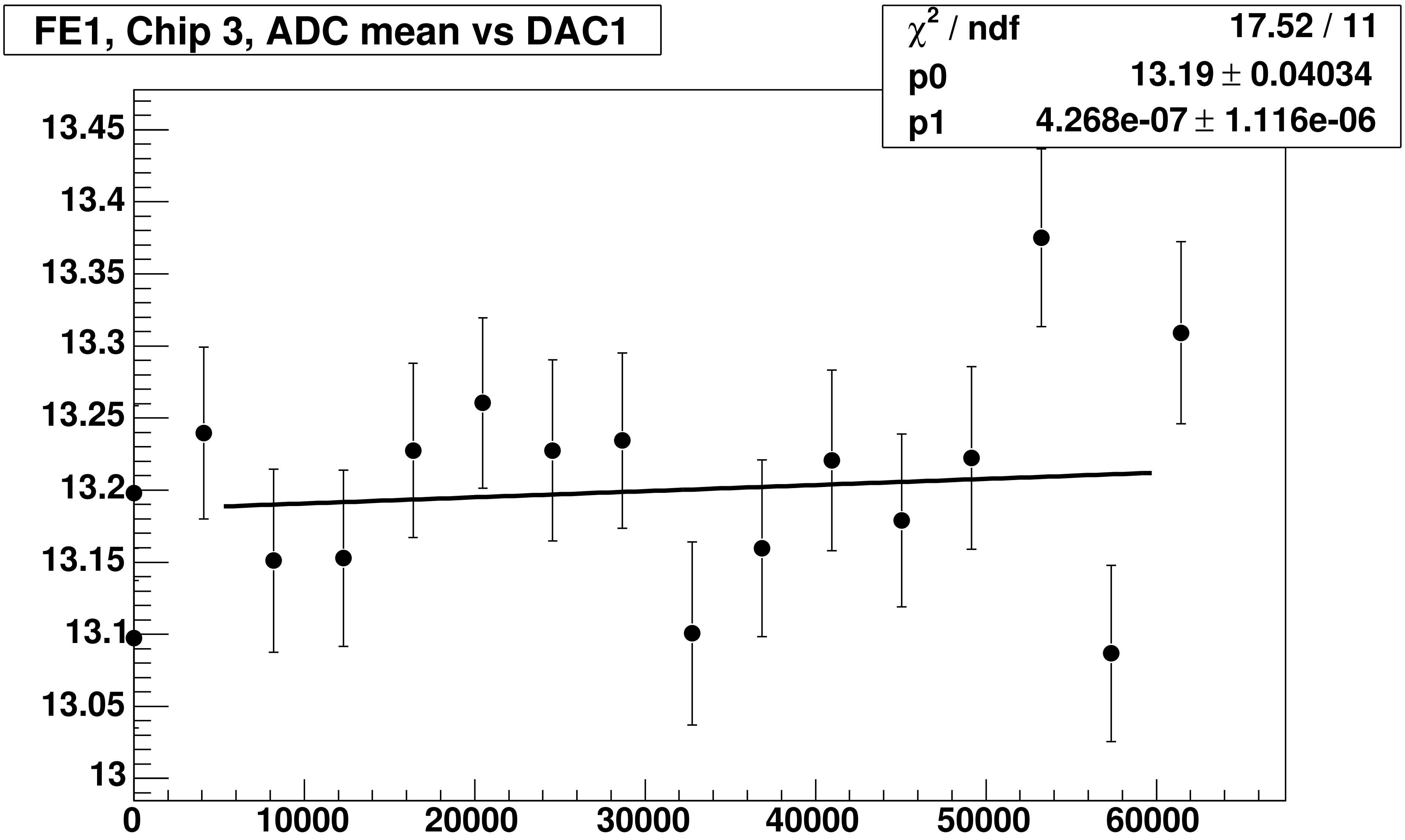


FE1, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1321 / 11
p0 13.46 ± 0.04139
p1 0.4519 ± 1.329e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

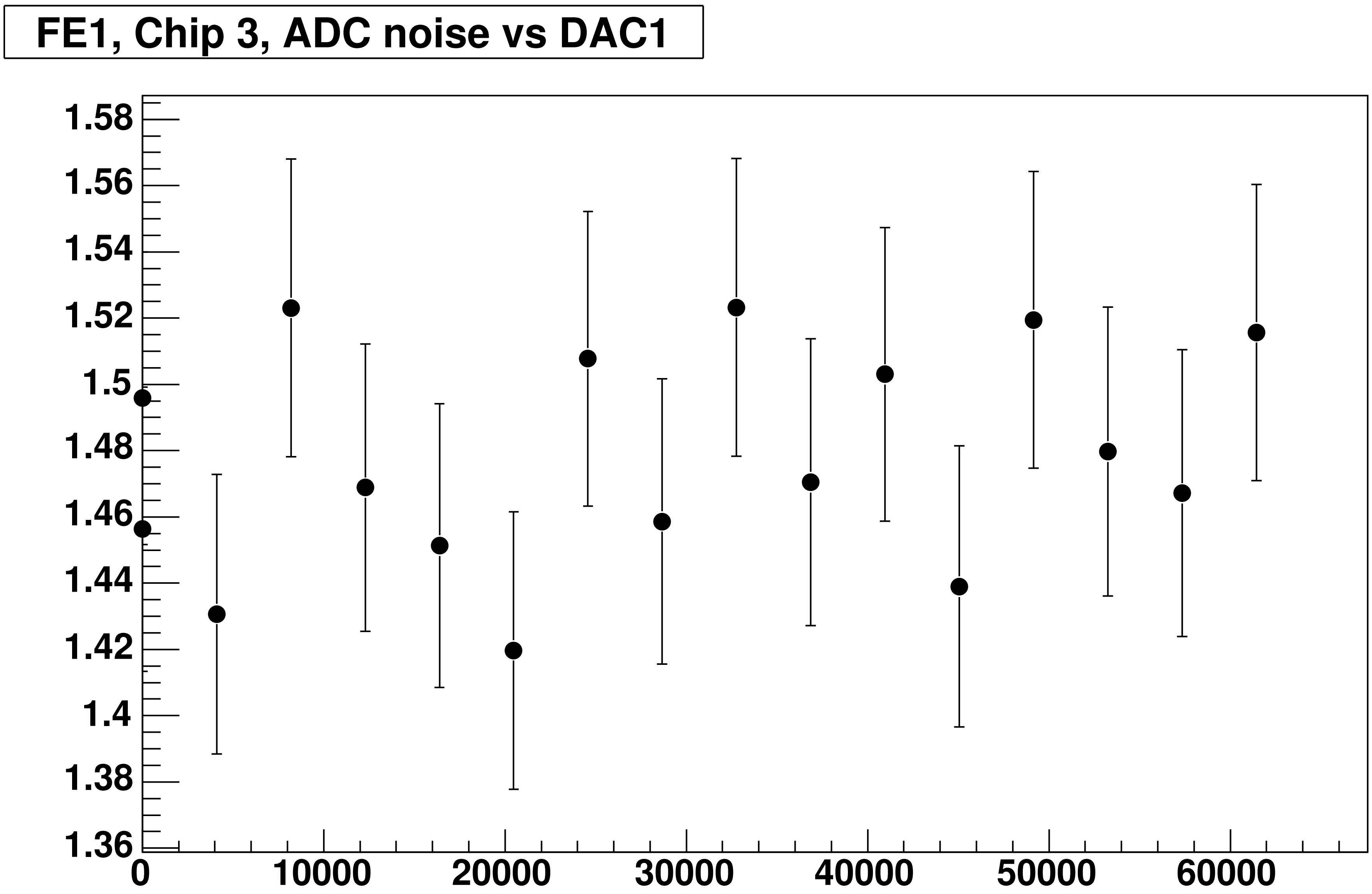


FE1, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

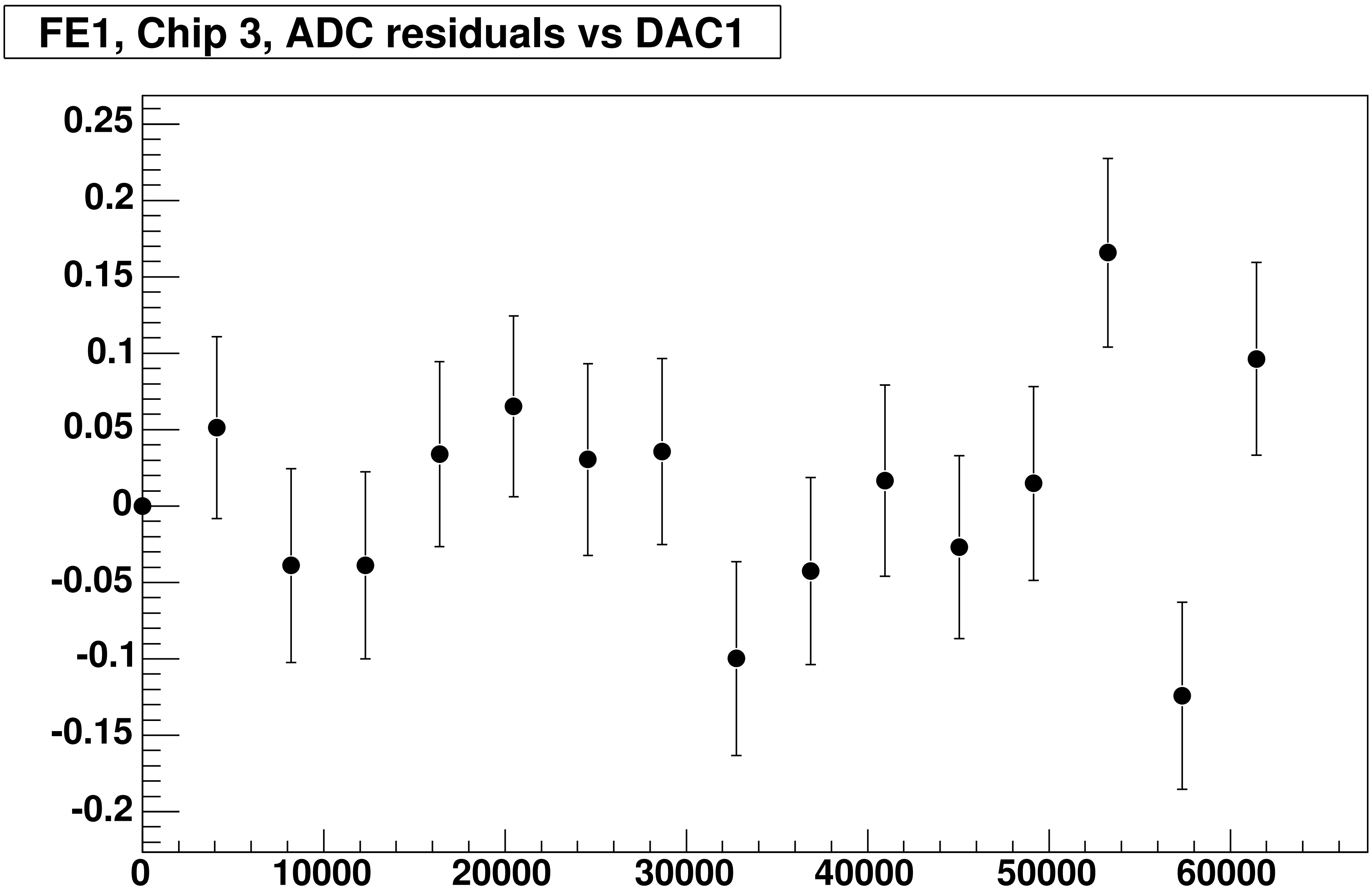

FE1, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



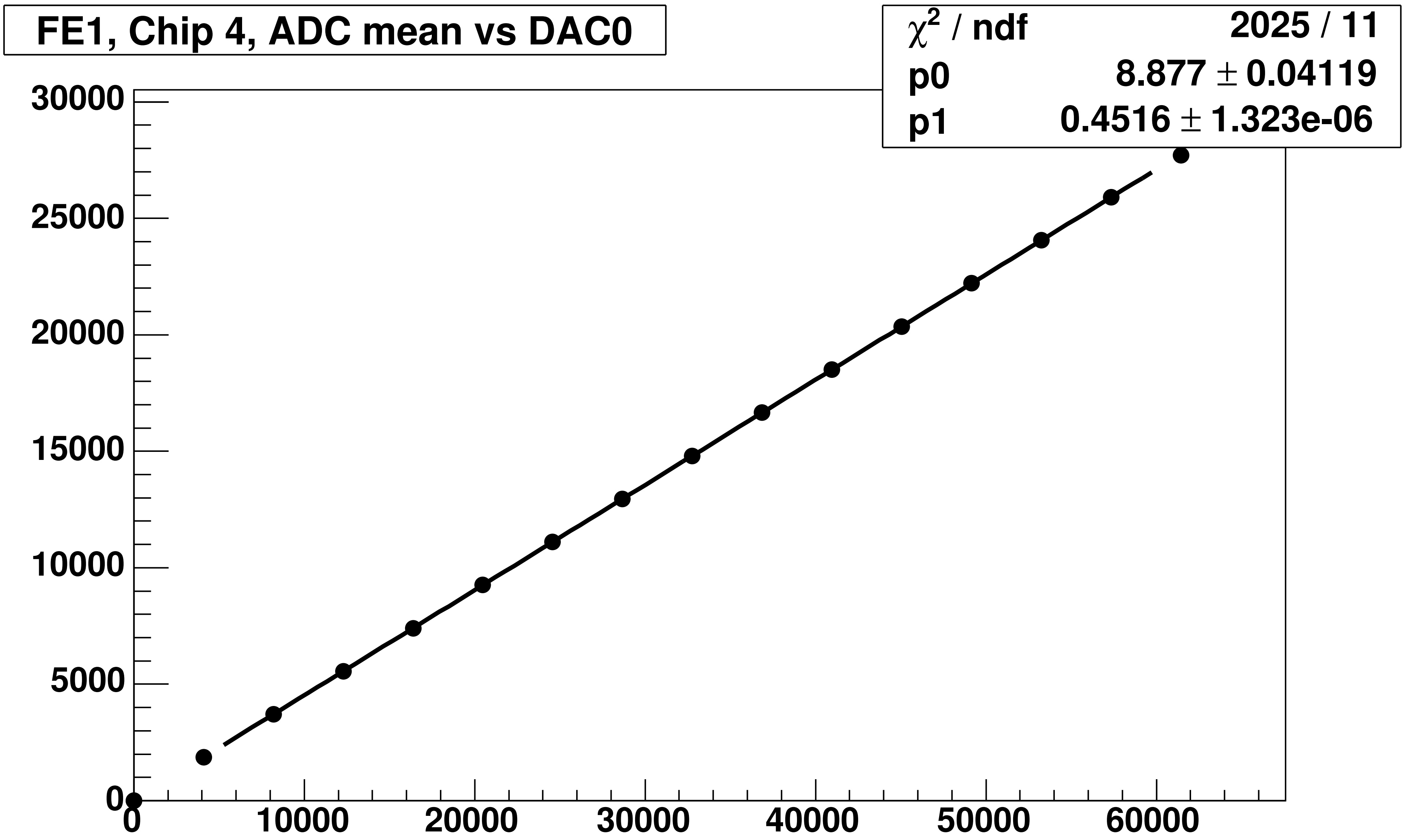
FE1, Chip 3, ADC mean vs DAC1
χ^2 / ndf 17.52 / 11
p0 13.19 ± 0.04034
p1 4.268e-07 ± 1.116e-06
13.45
13.4
13.35
13.3
13.25
13.2
13.15
13.1
13.05
13
0
10000
20000
30000
40000
50000
60000



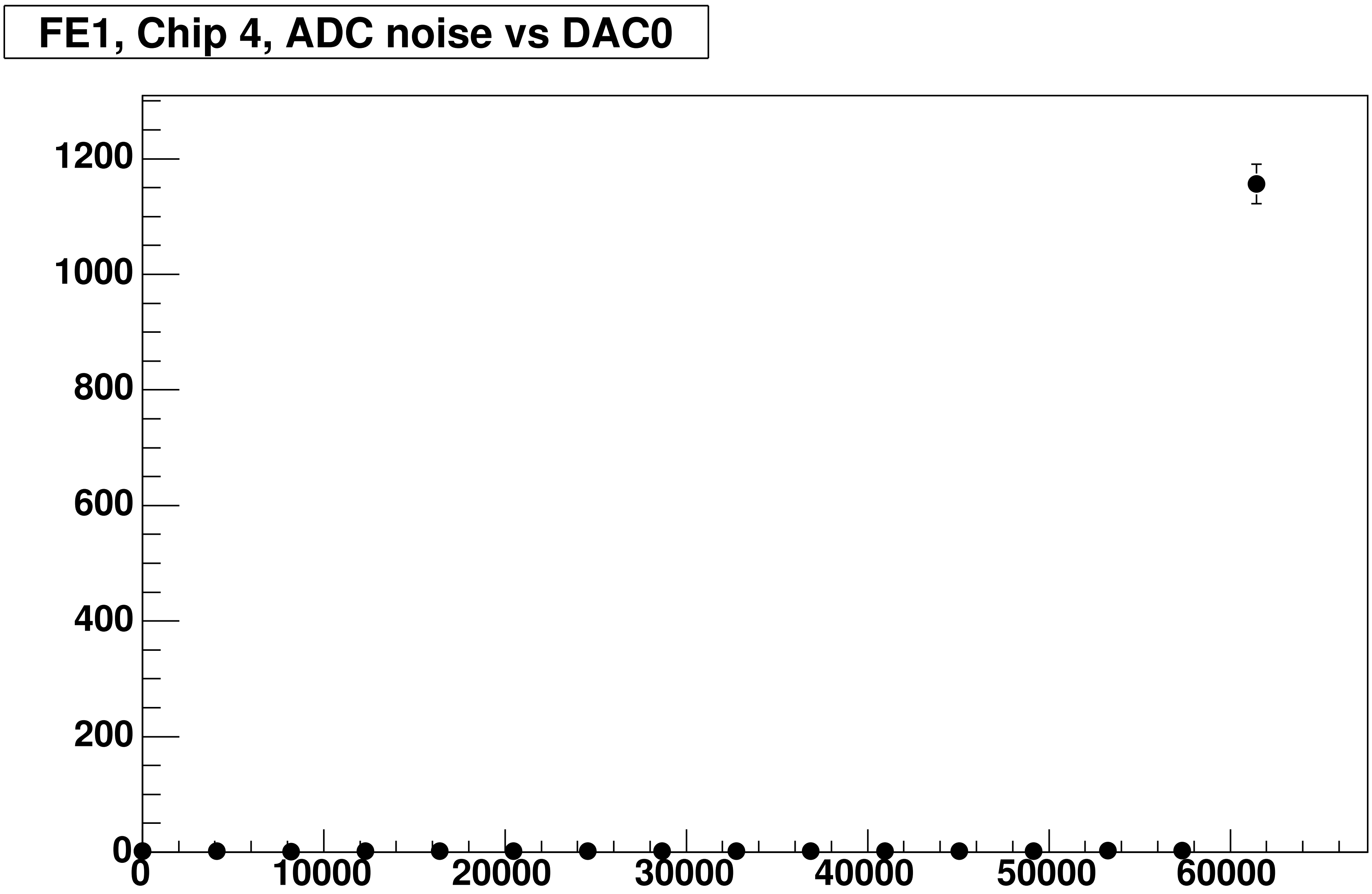
FE1, Chip 3, ADC noise vs DAC1
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
0
10000
20000
30000
40000
50000
60000

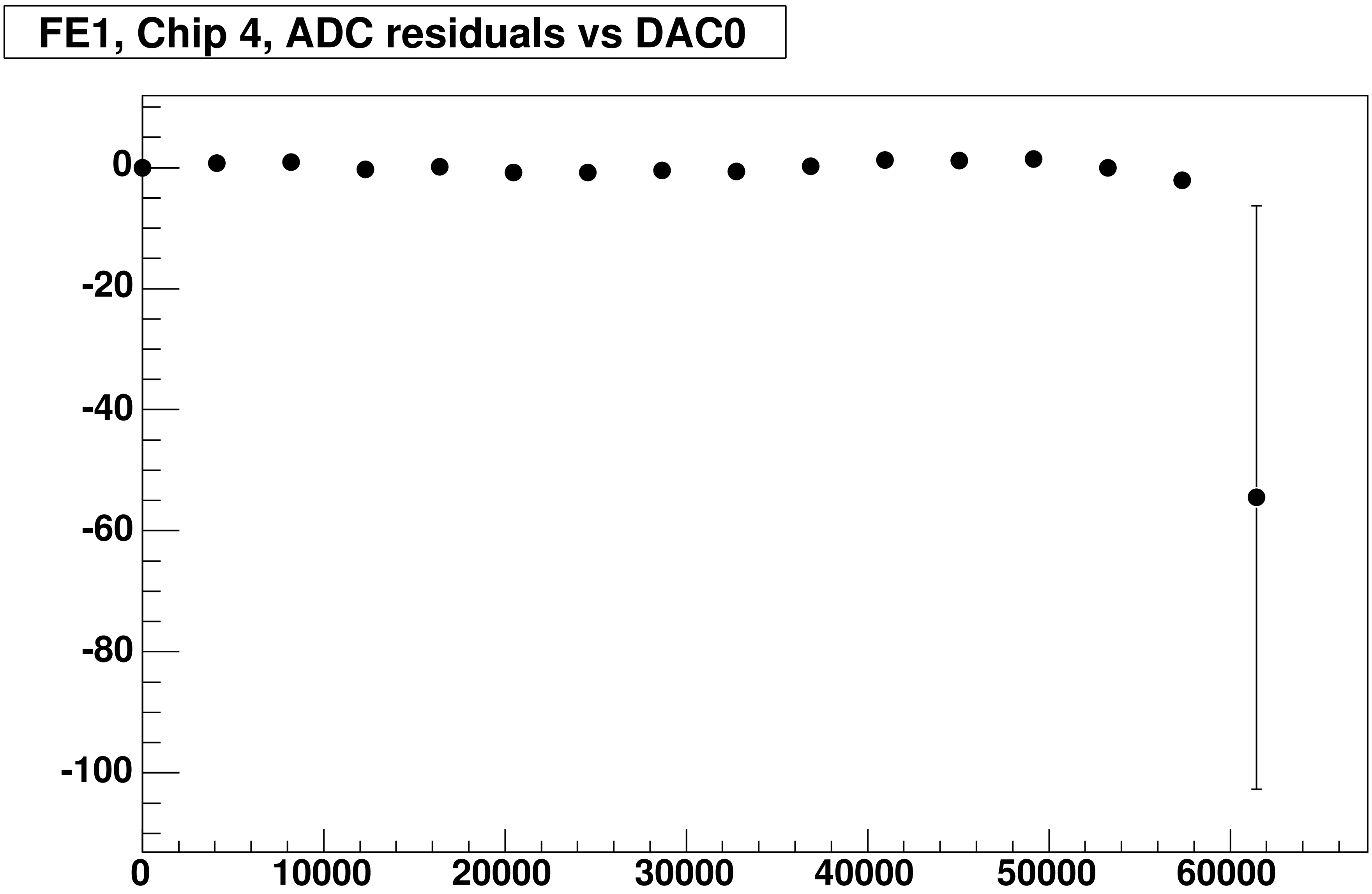


FE1, Chip 3, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

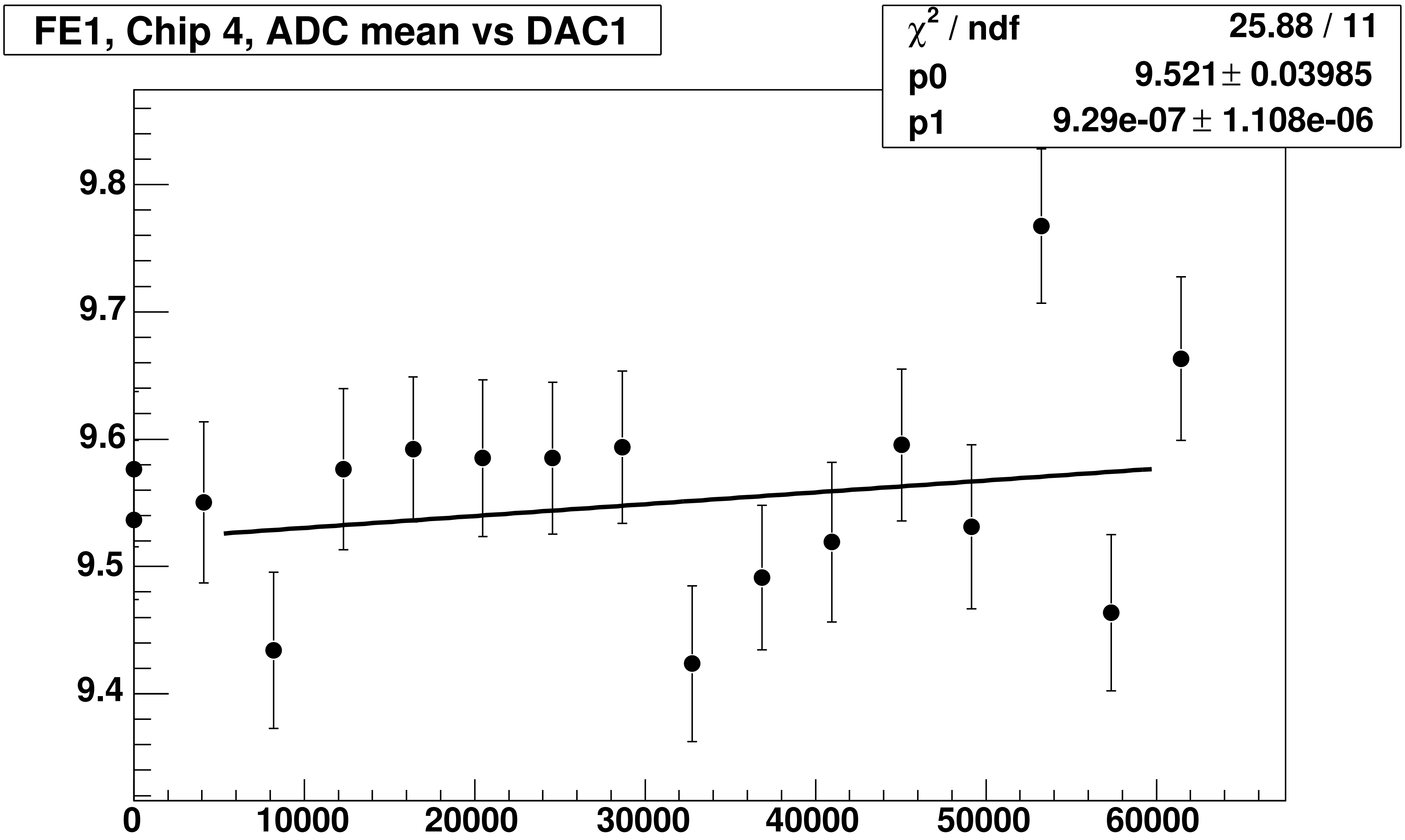


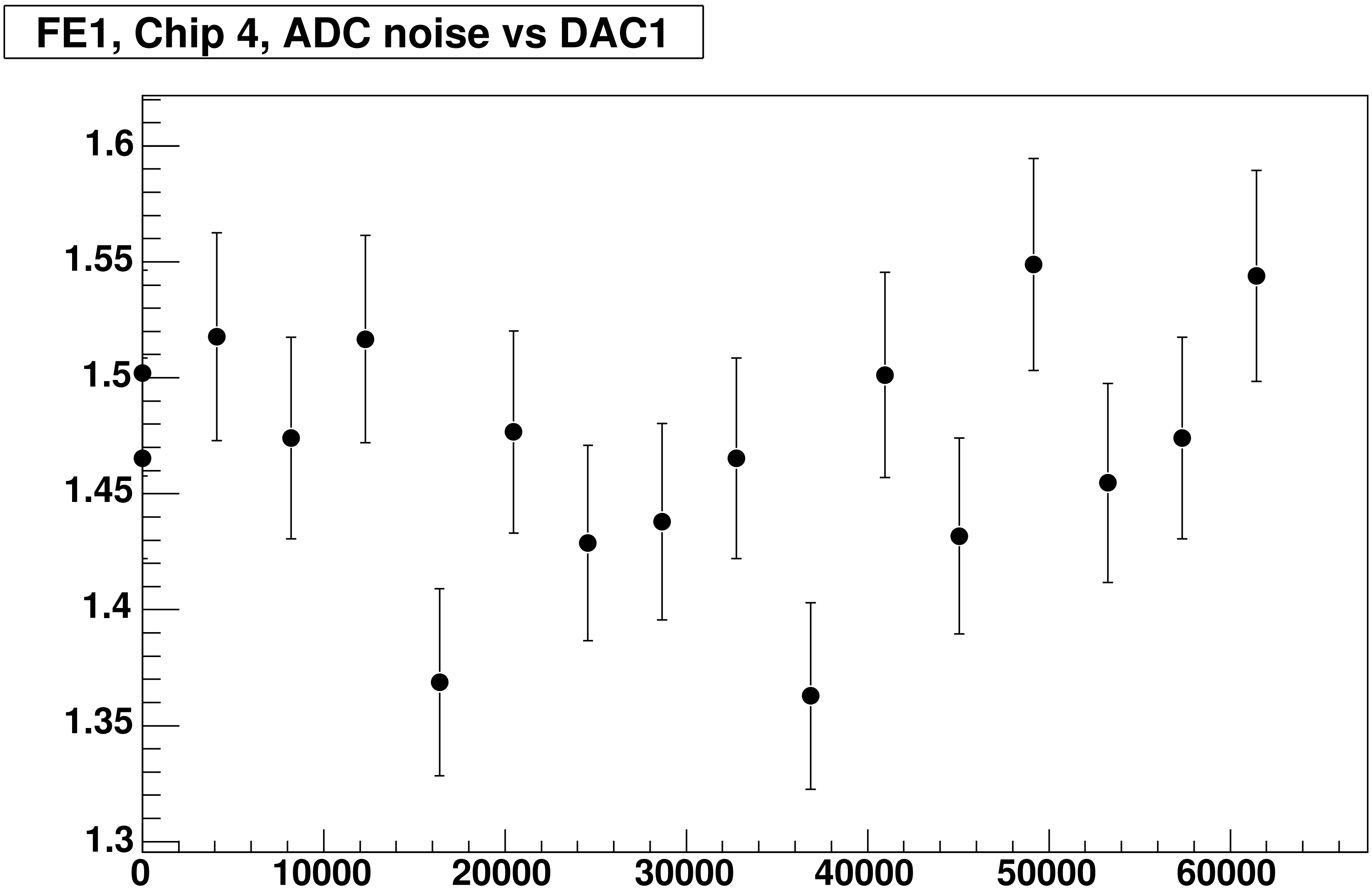
FE1, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2025 / 11
p0 8.877 ± 0.04119
p1 0.4516 ± 1.323e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

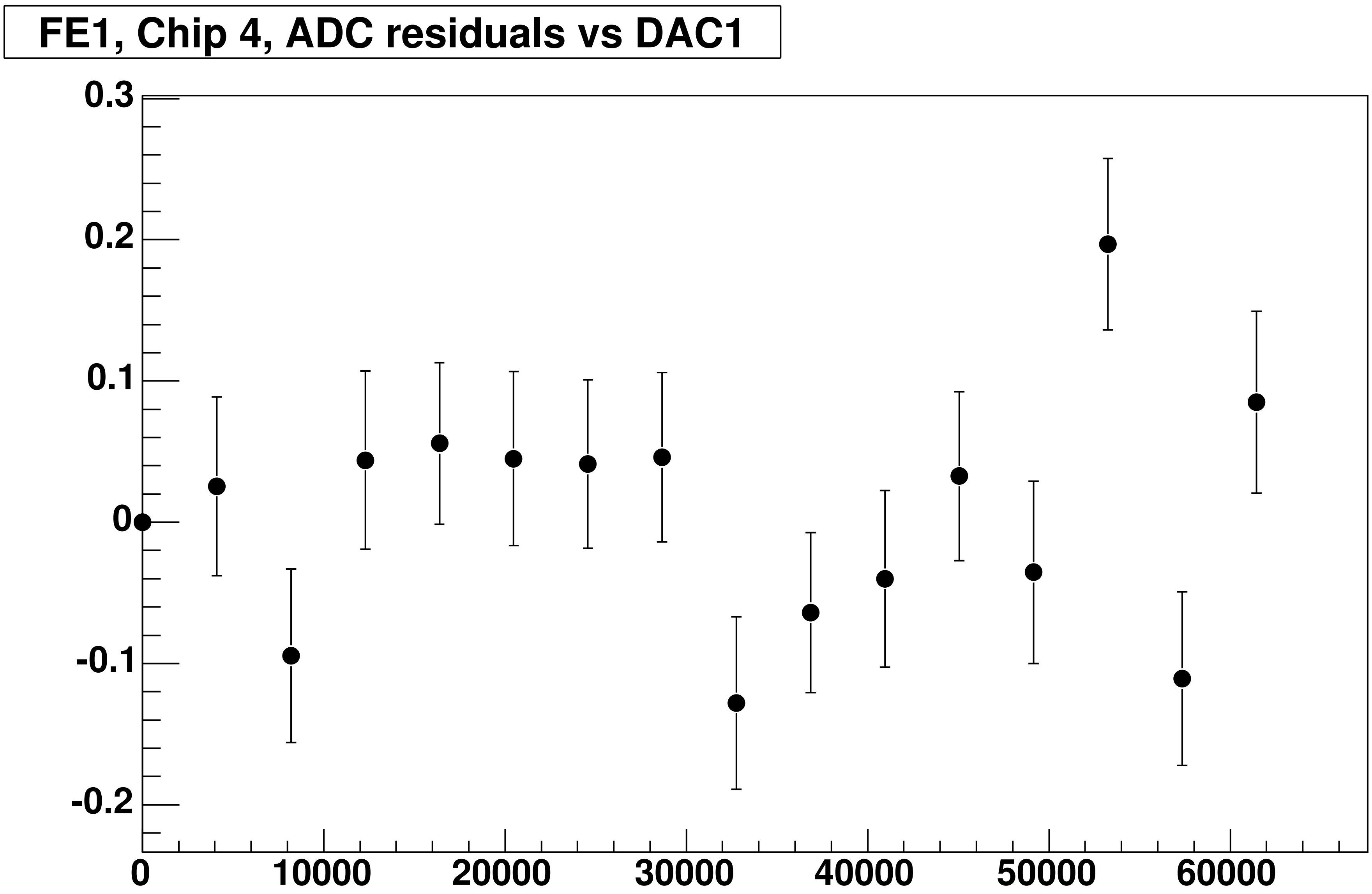


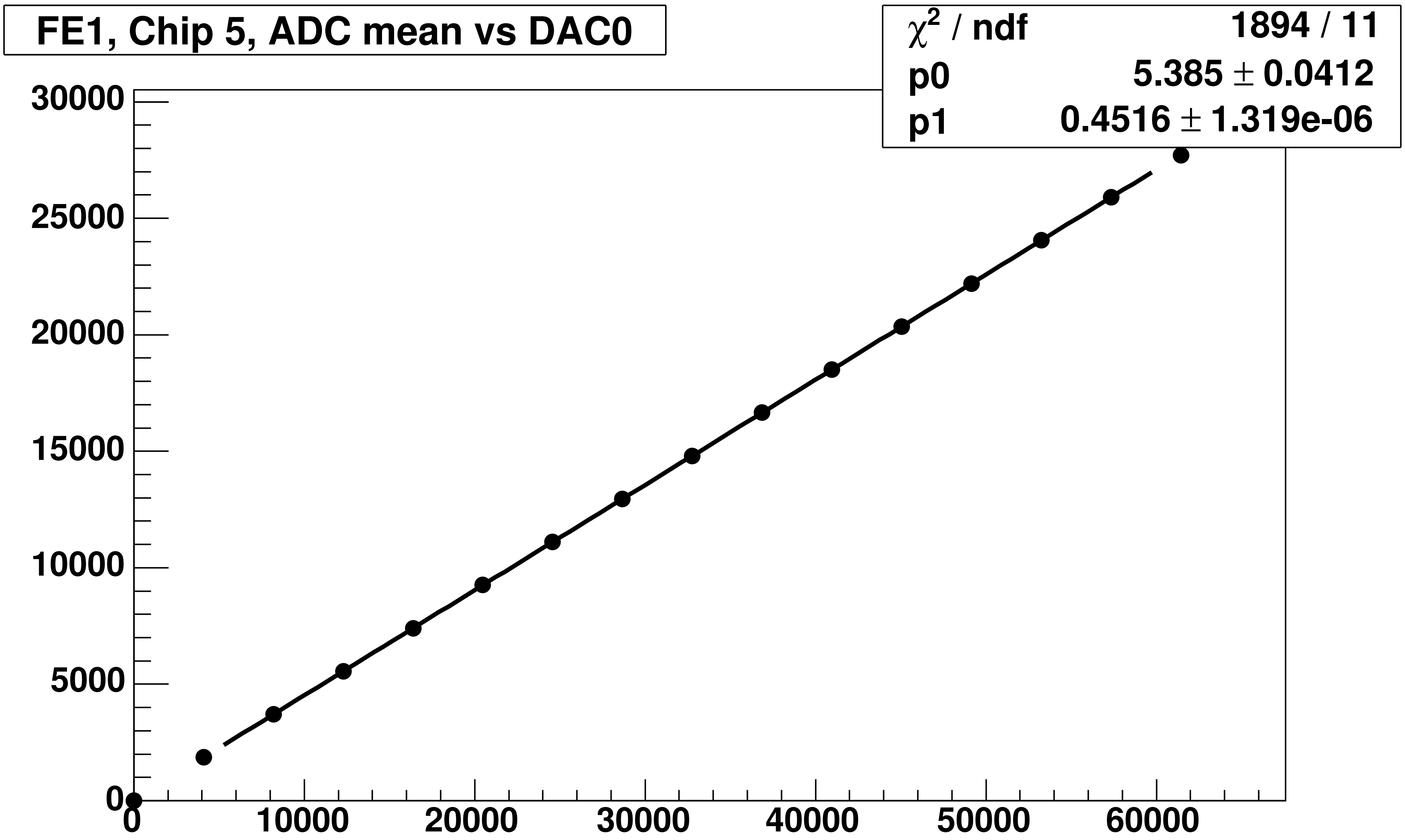
FE1, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

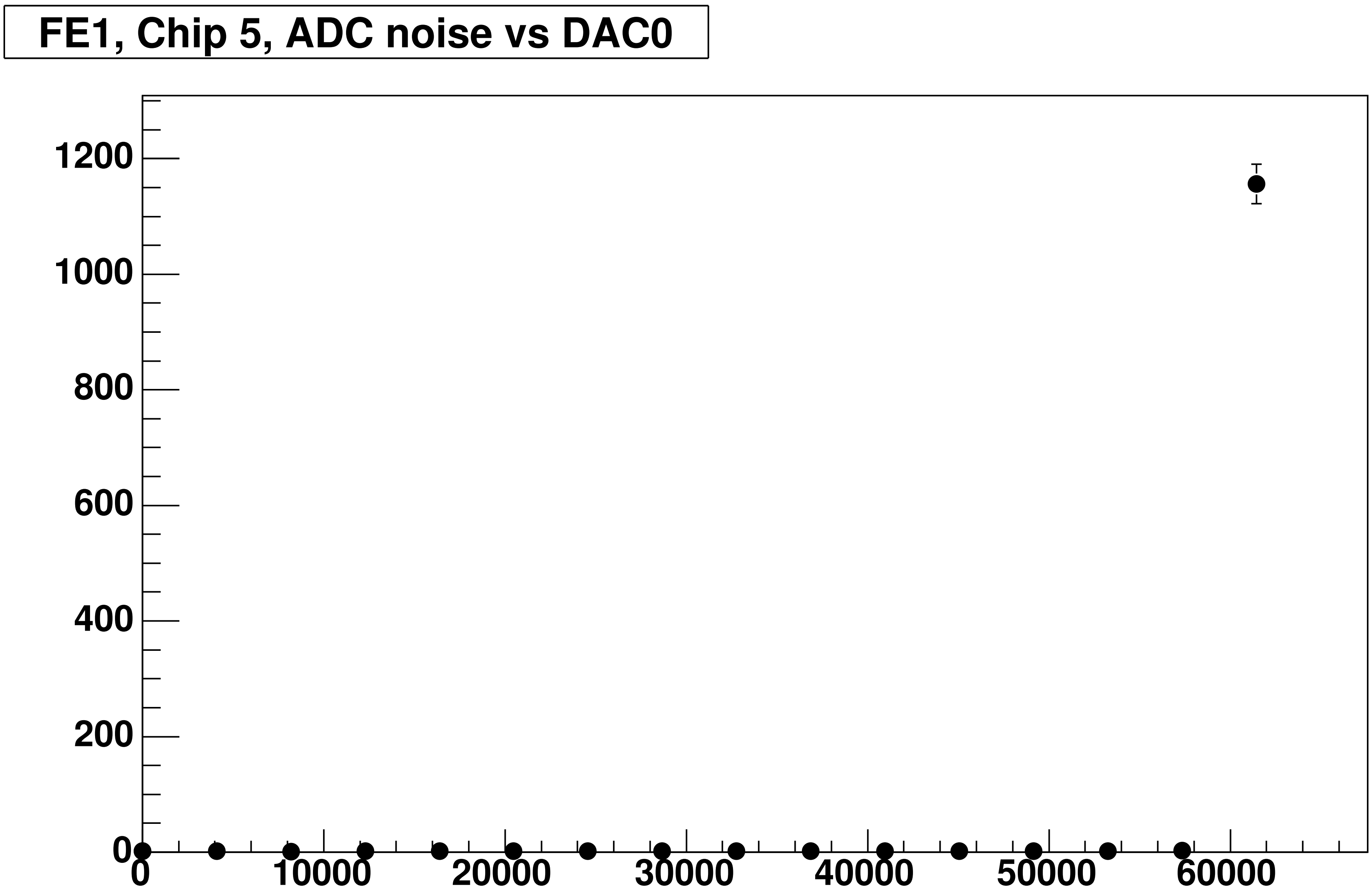

FE1, Chip 4, ADC mean vs DAC1
χ^2 / ndf 25.88 / 11
p0 9.521 ± 0.03985
p1 9.29e-07 ± 1.108e-06
9.8
9.7
9.6
9.5
9.4
0
10000
20000
30000
40000
50000
60000

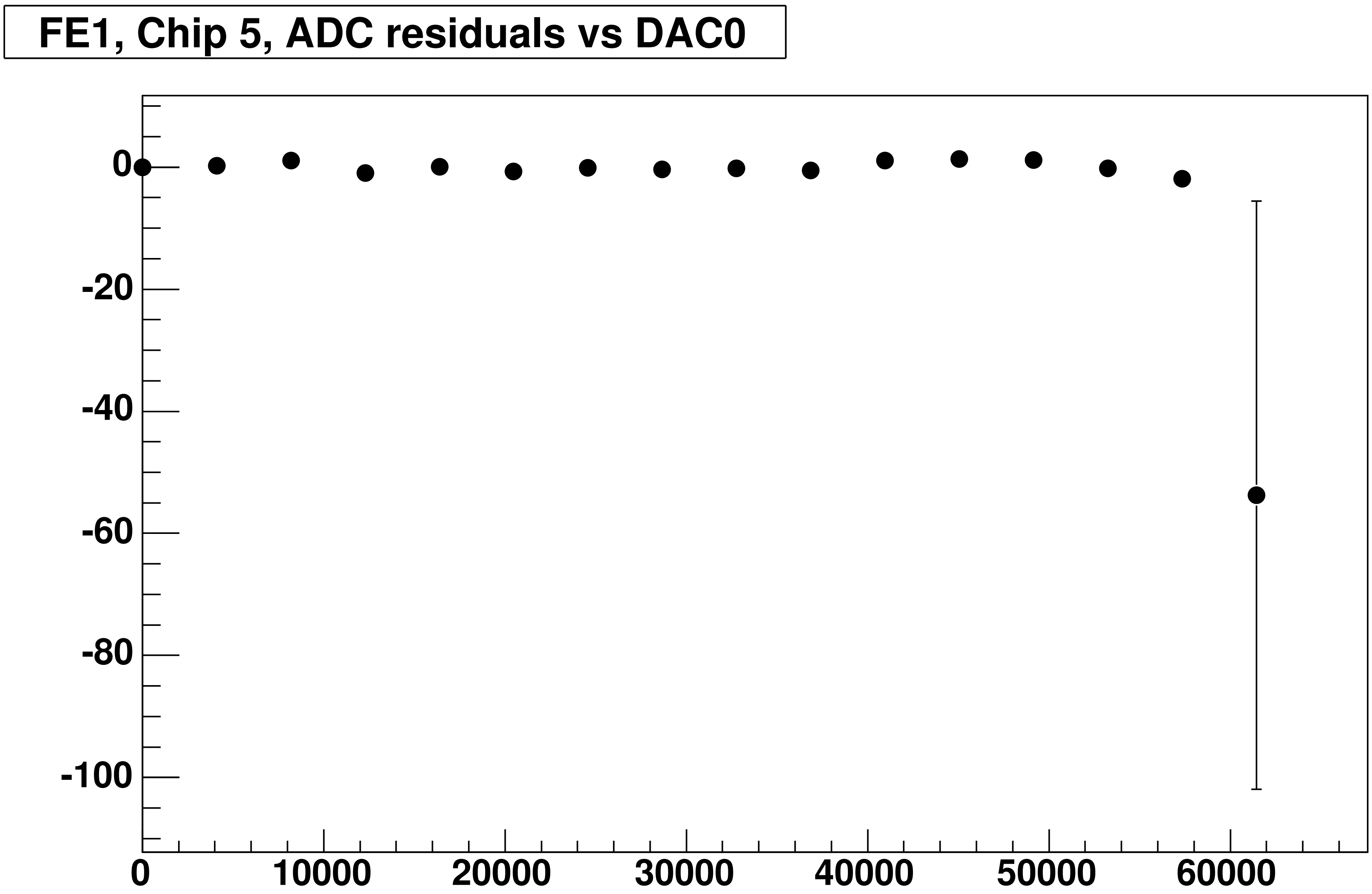


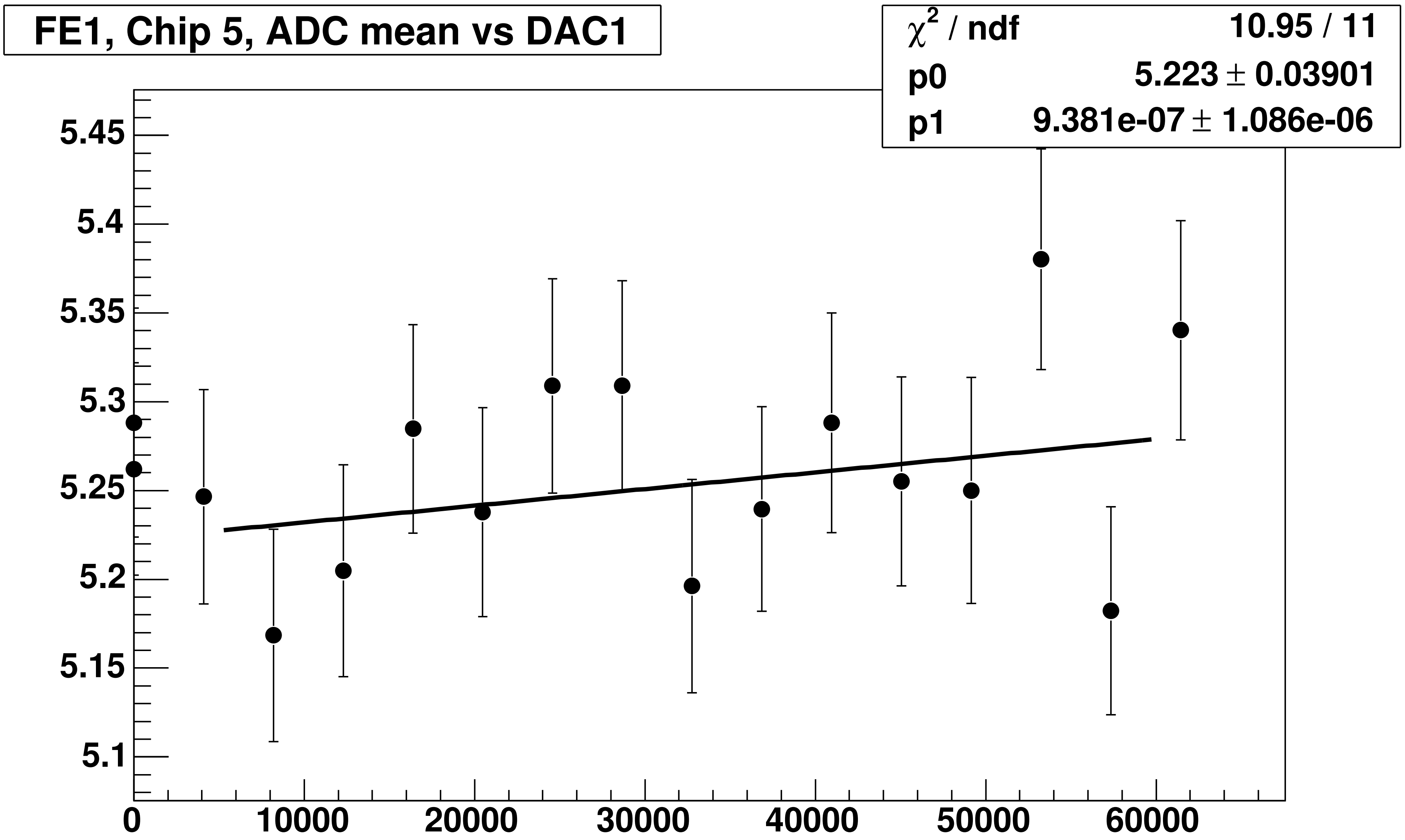
FE1, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


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

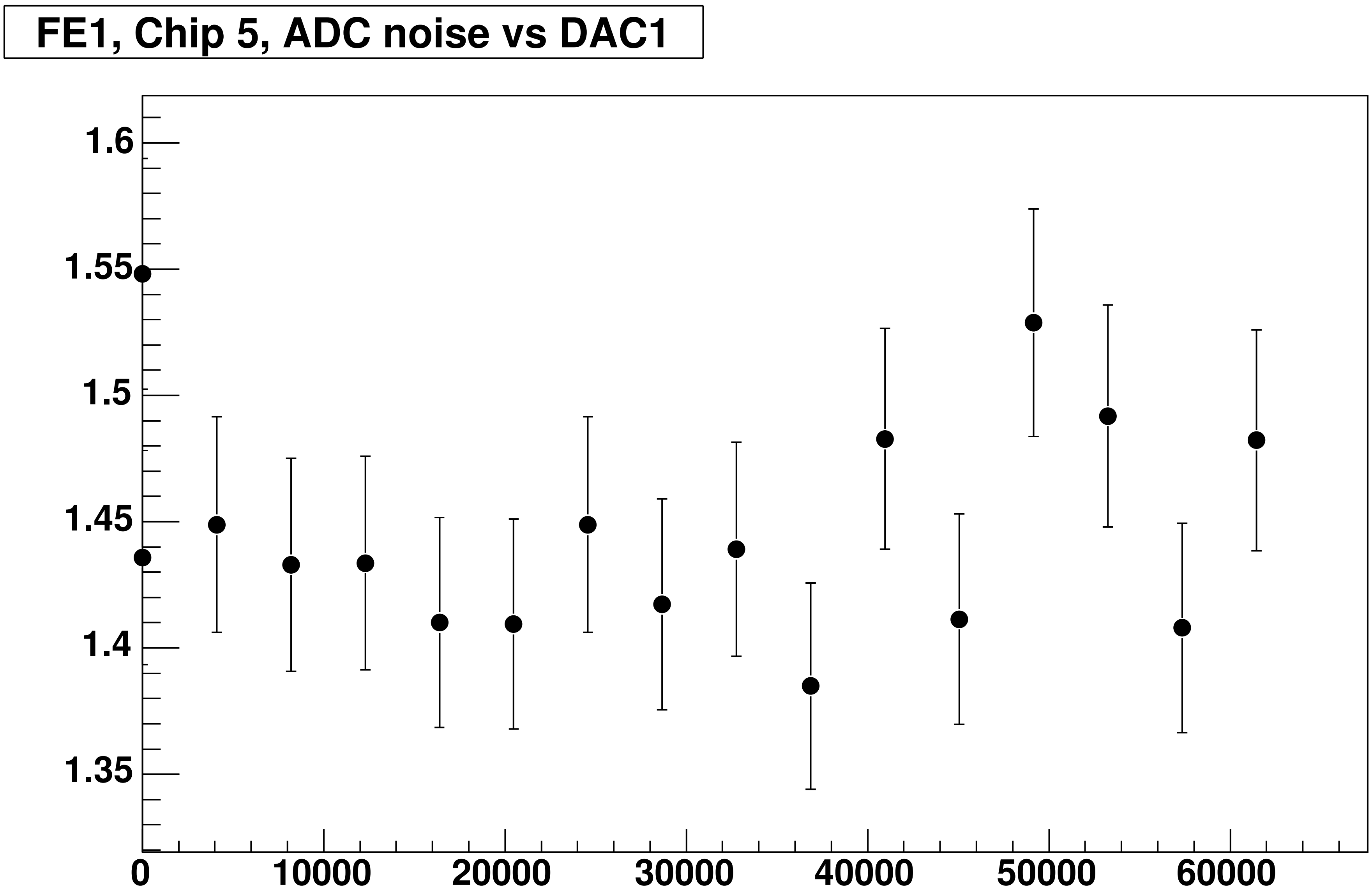

FE1, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1894 / 11
p0 5.385 ± 0.0412
p1 0.4516 ± 1.319e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

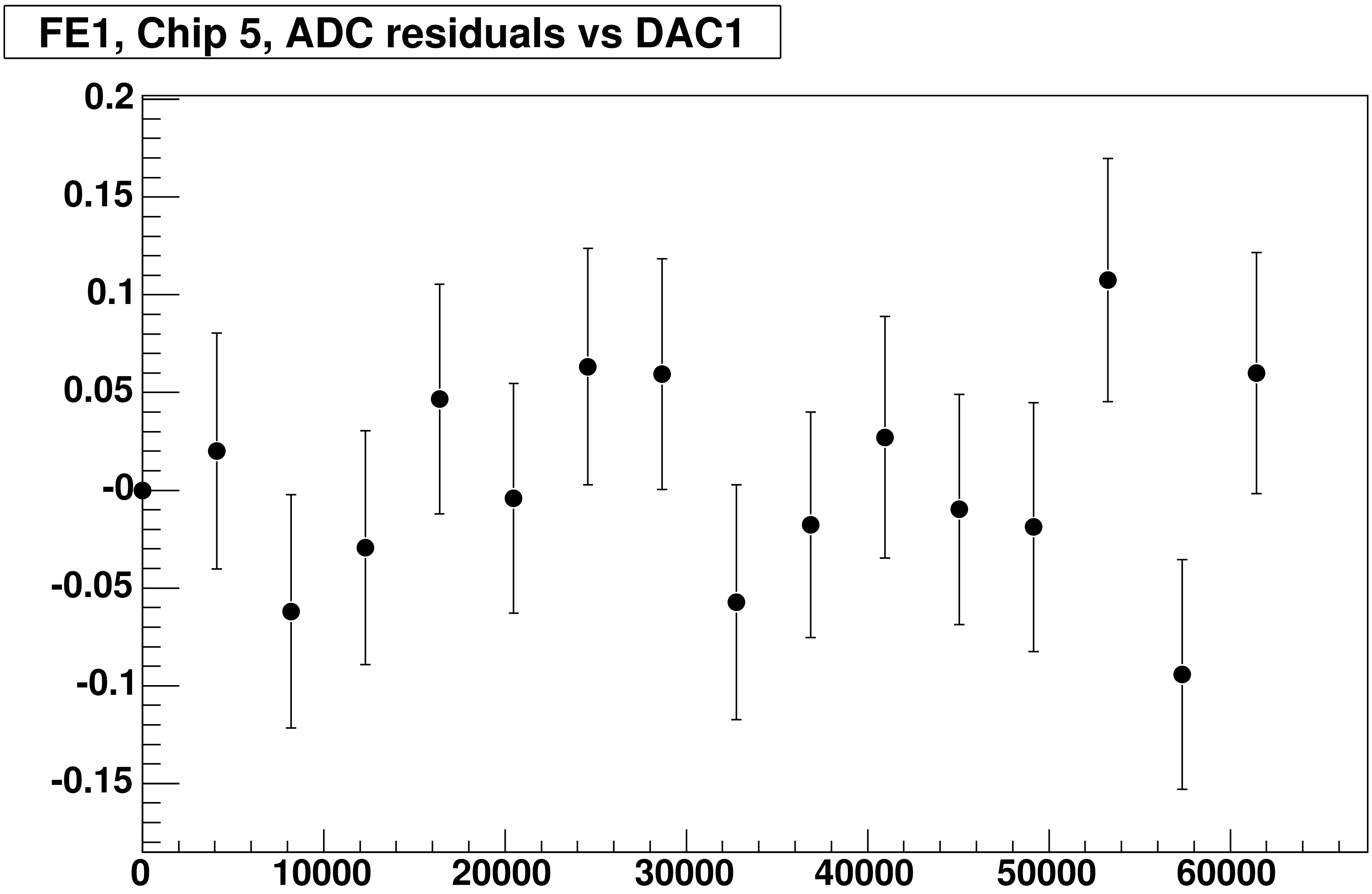

FE1, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

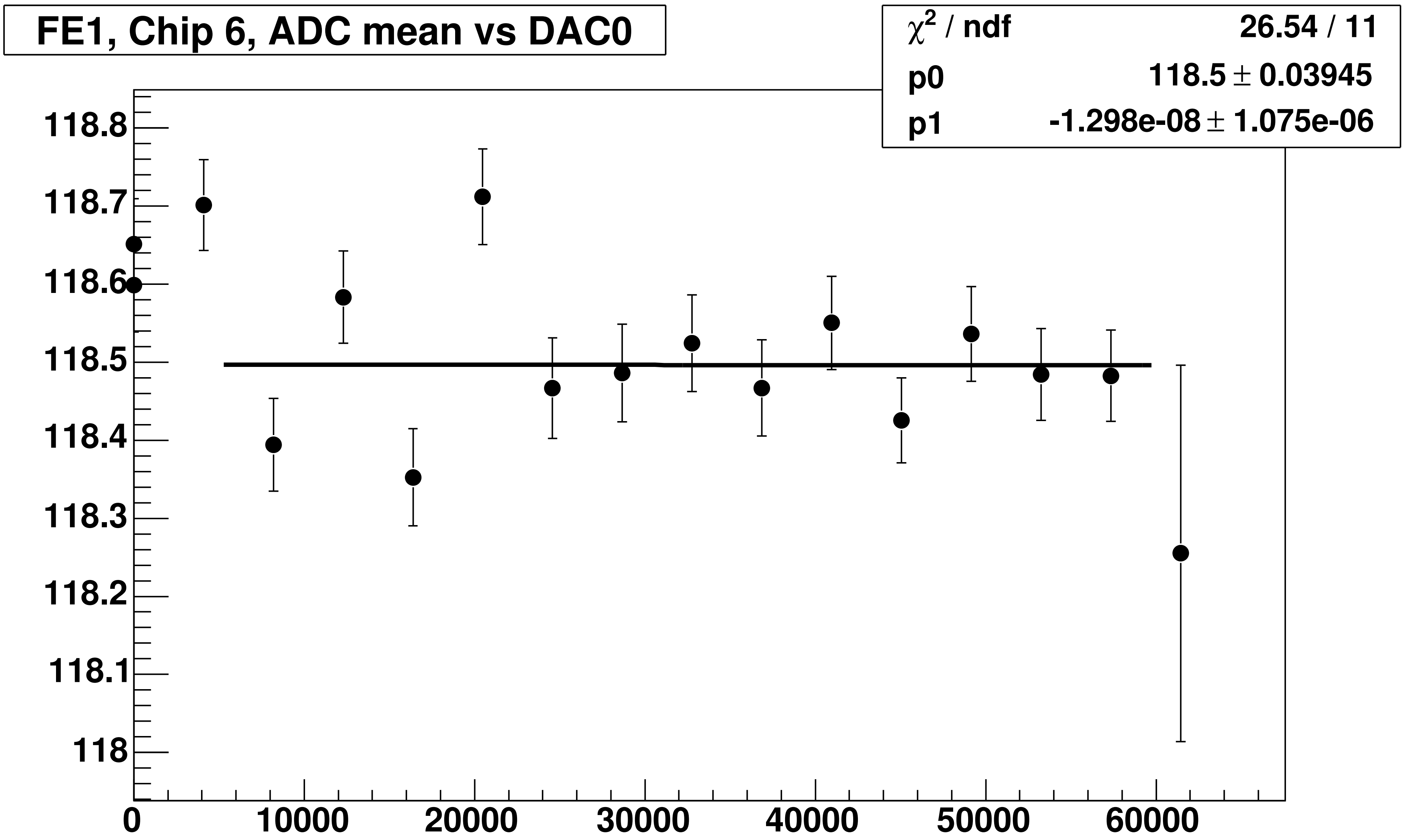

FE1, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



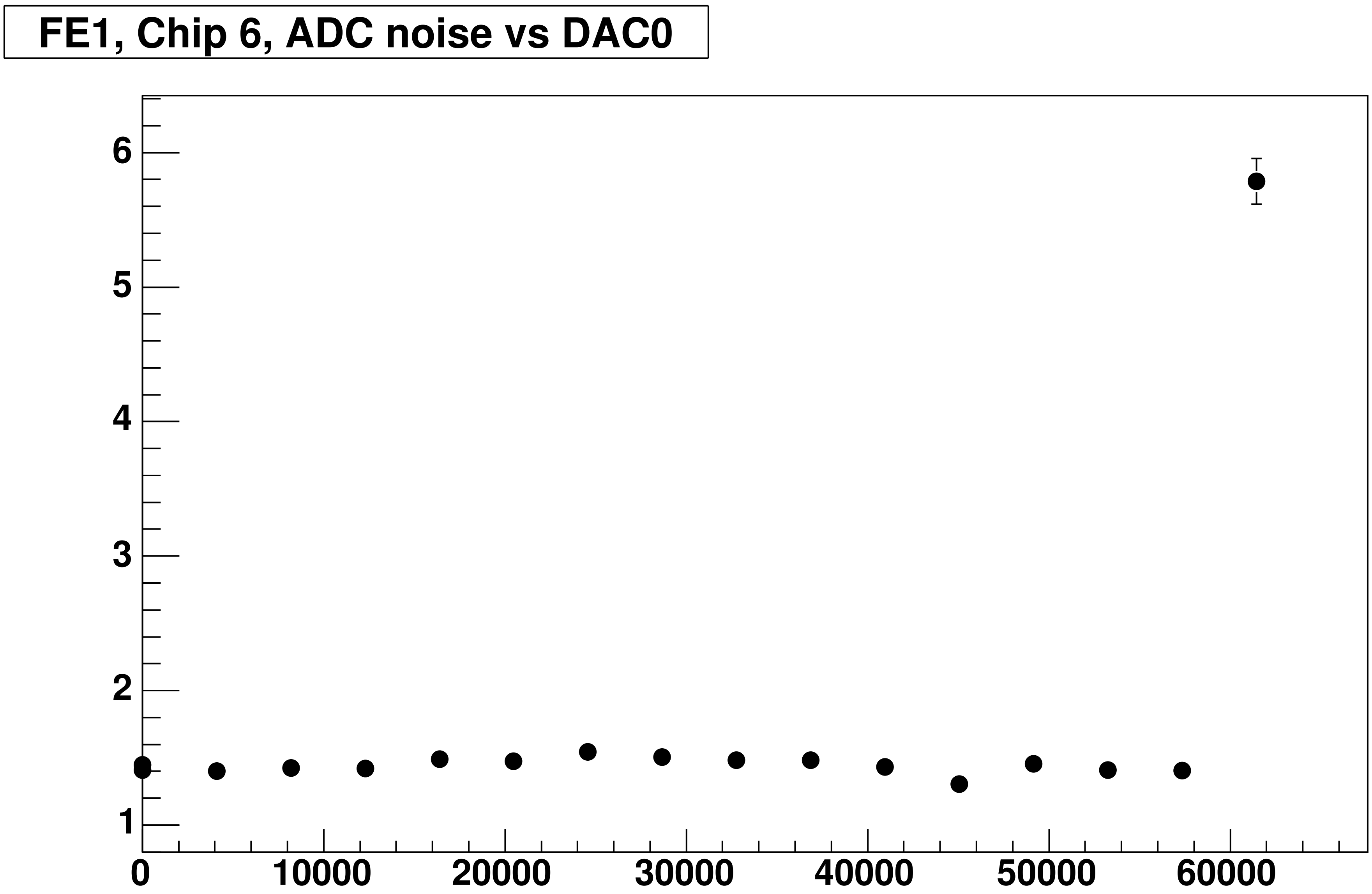
FE1, Chip 5, ADC mean vs DAC1
χ² / ndf 10.95 / 11
p0 5.223 ± 0.03901
p1 9.381e-07 ± 1.086e-06
5.45
5.4
5.35
5.3
5.25
5.2
5.15
5.1
0
10000
20000
30000
40000
50000
60000

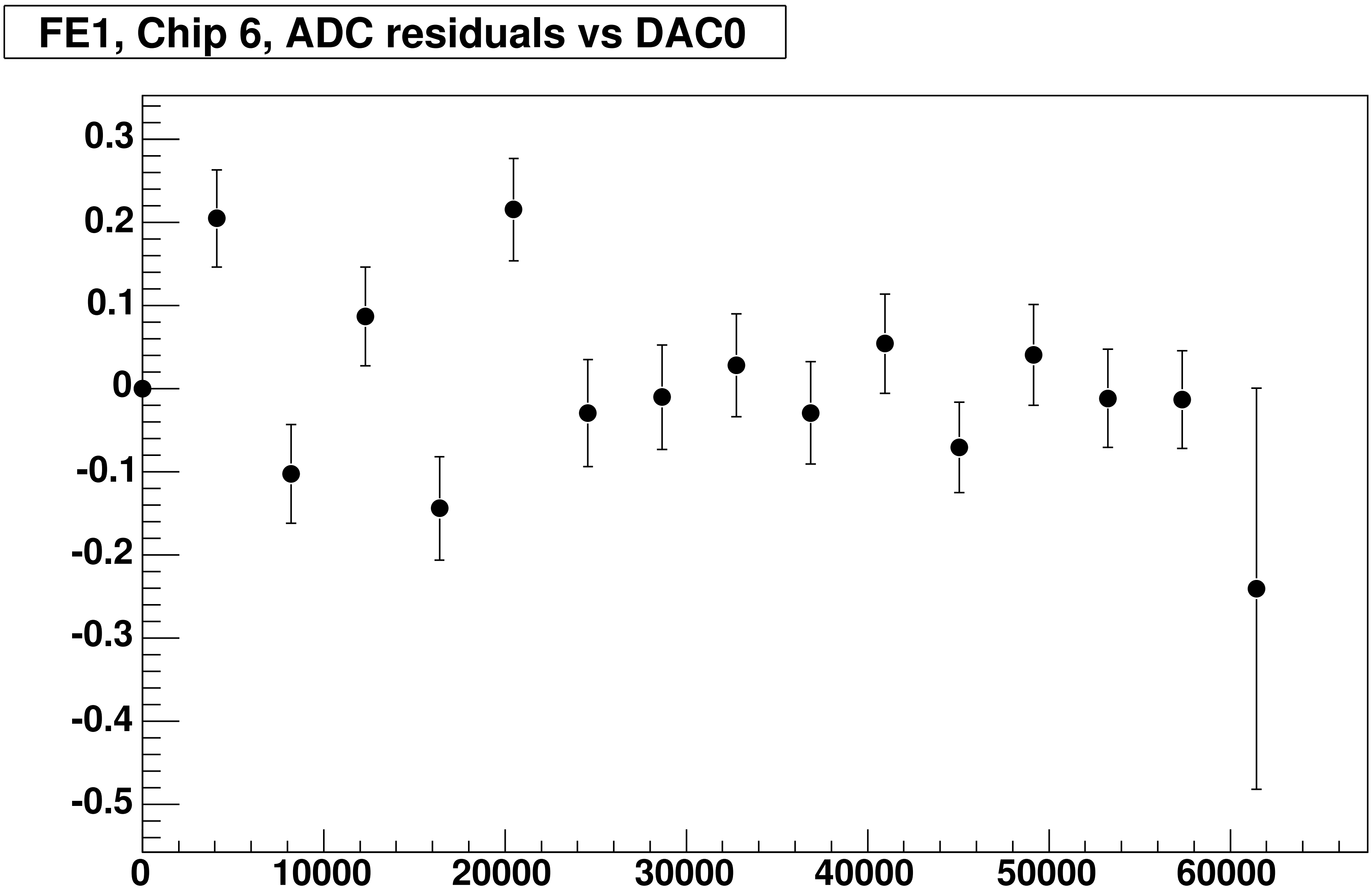

FE1, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

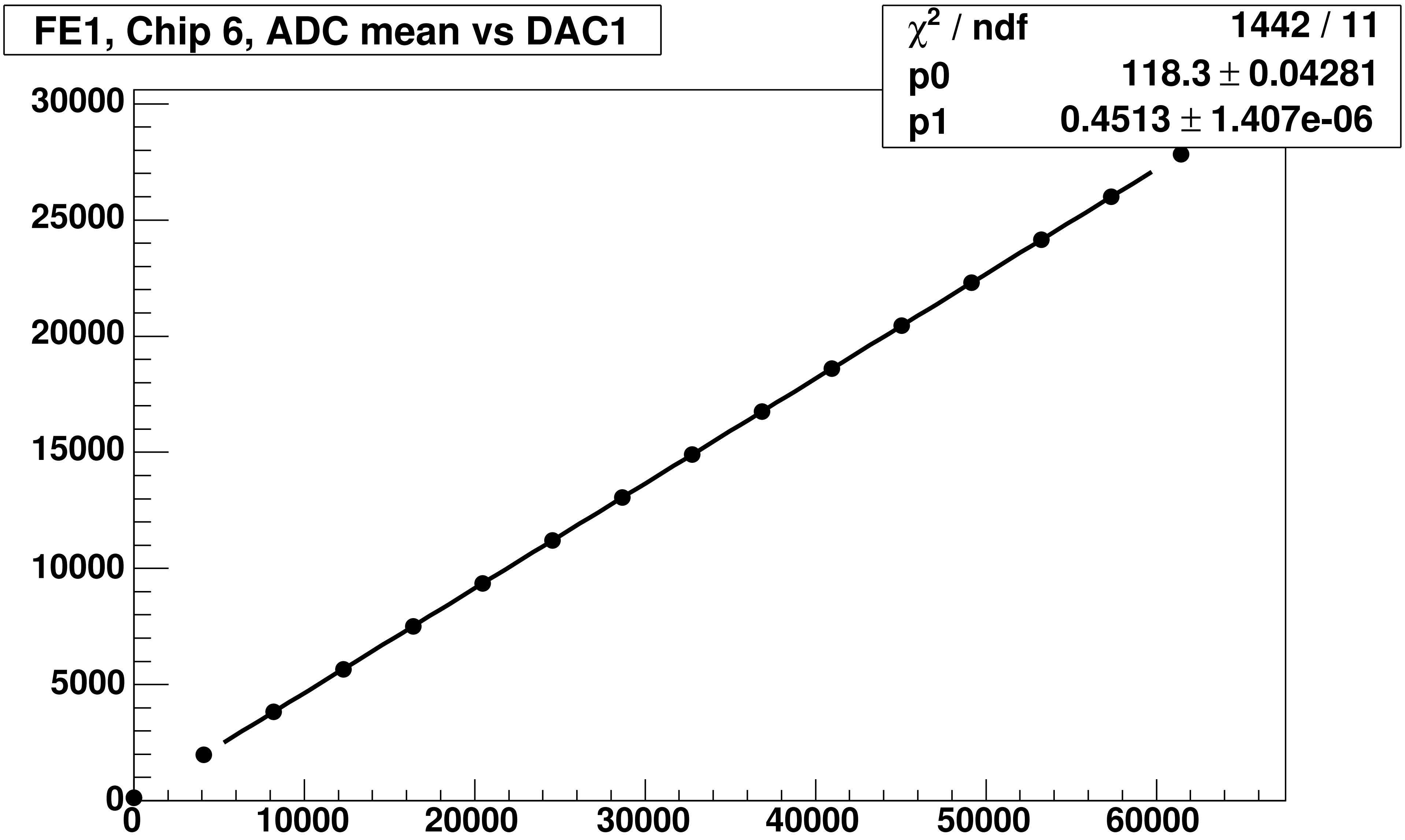


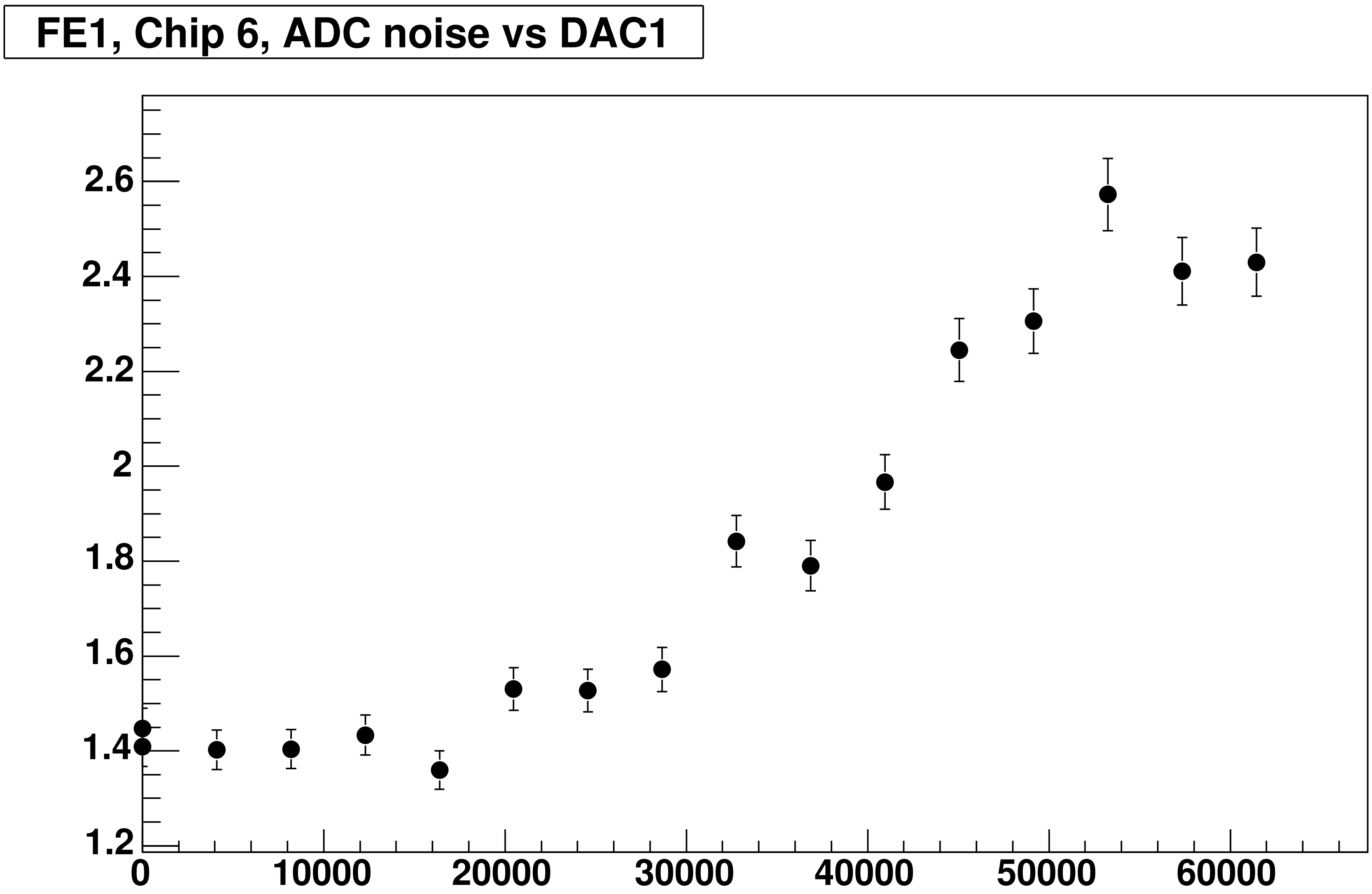
FE1, Chip 6, ADC mean vs DAC0
χ^2 / ndf 26.54 / 11
p0 118.5 ± 0.03945
p1 -1.298e-08 ± 1.075e-06
118.8
118.7
118.6
118.5
118.4
118.3
118.2
118.1
118
0
10000
20000
30000
40000
50000
60000

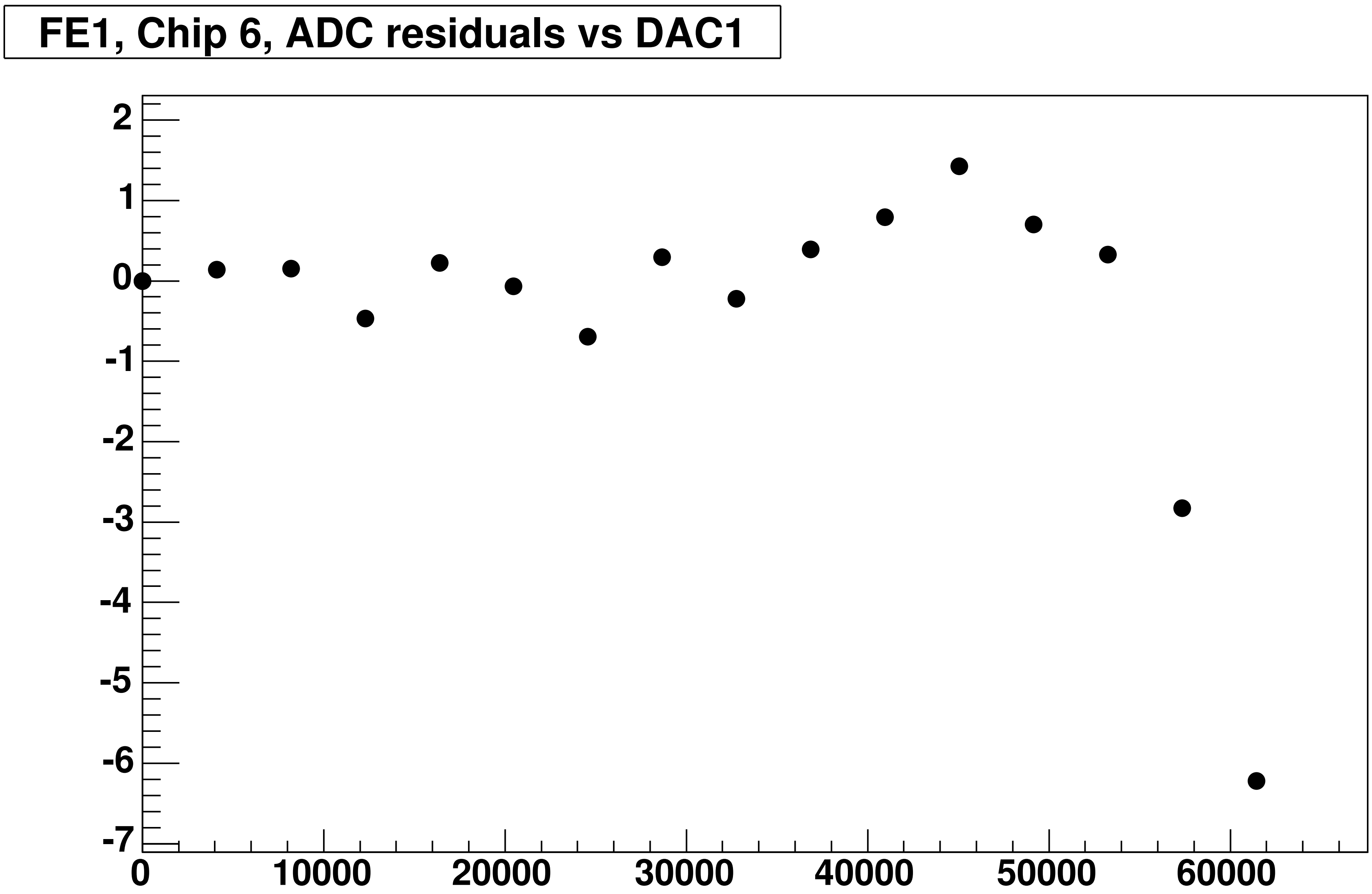

FE1, Chip 6, ADC noise vs DAC0
6
5
4
3
2
1
0
10000
20000
30000
40000
50000
60000

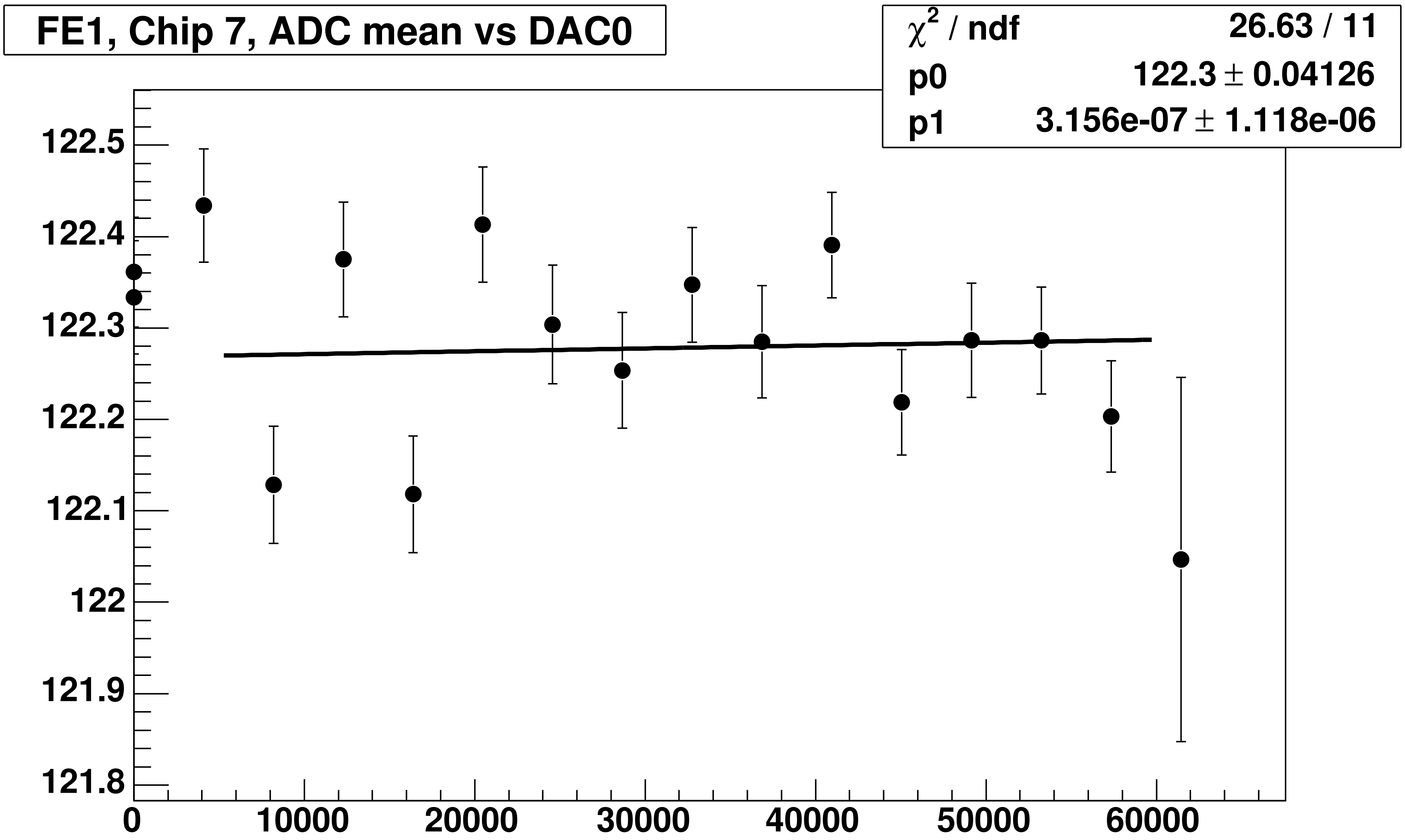


FE1, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

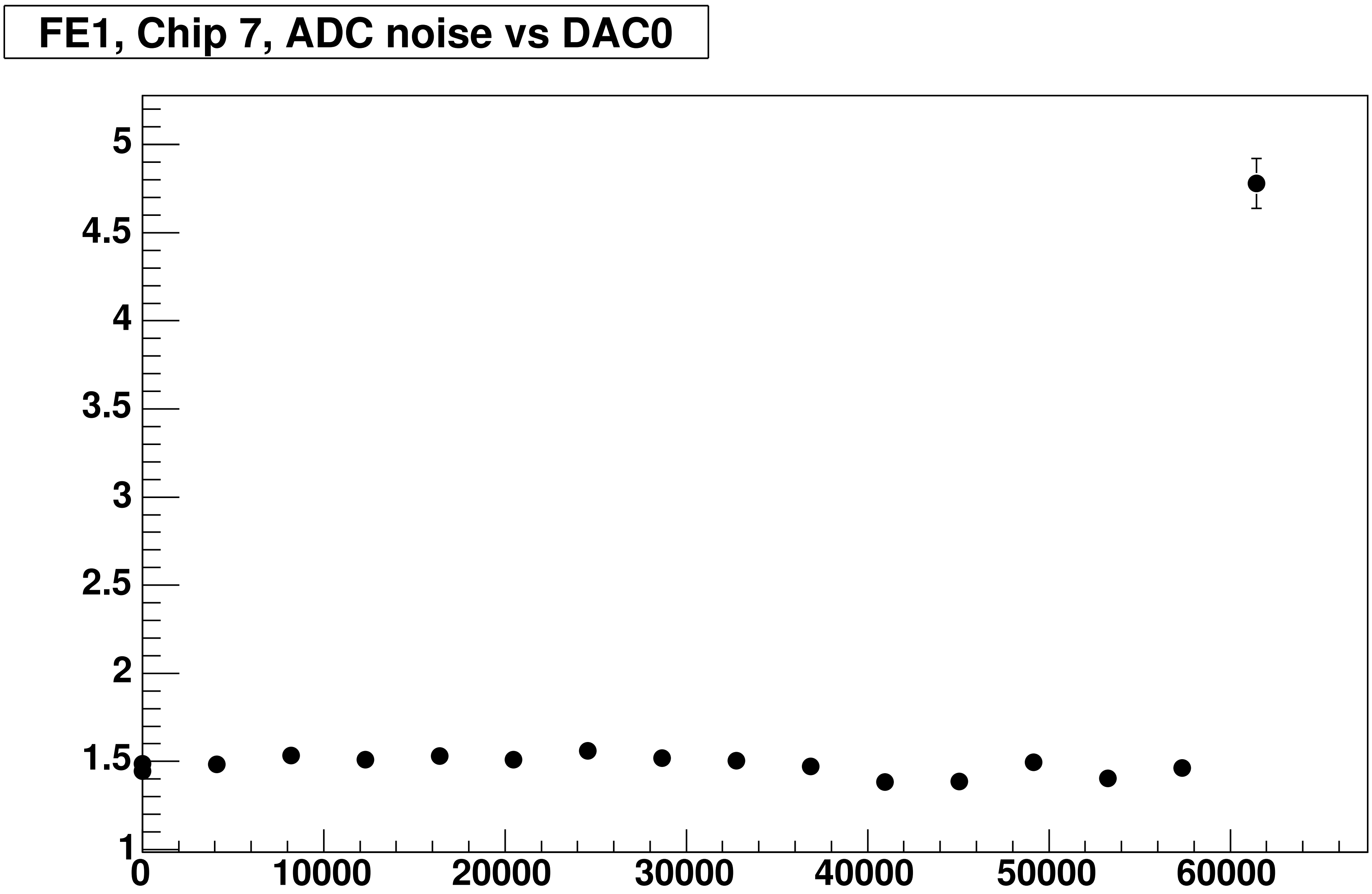

FE1, Chip 6, ADC mean vs DAC1
χ² / ndf 1442 / 11
p0 118.3 ± 0.04281
p1 0.4513 ± 1.407e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

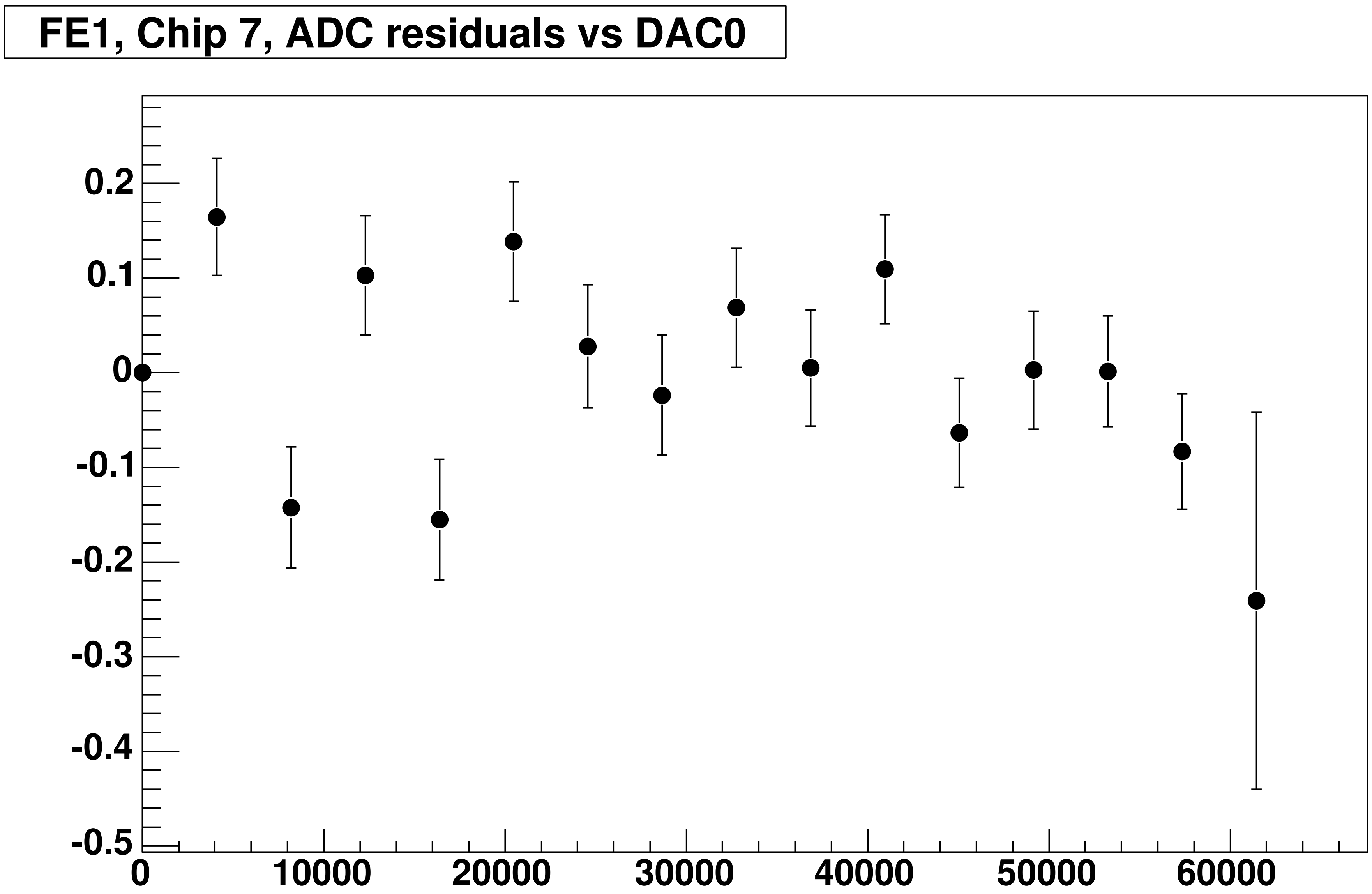

FE1, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000



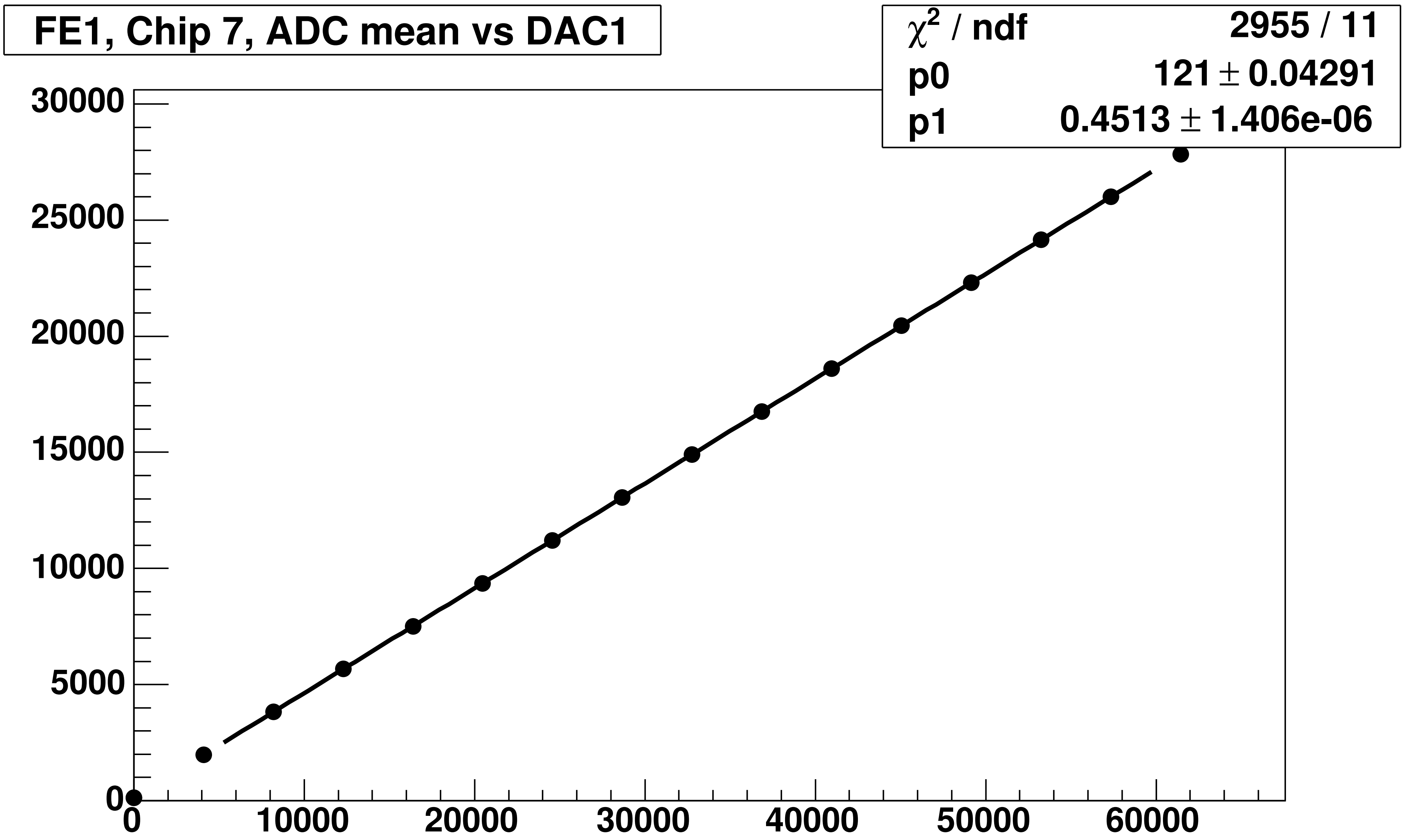
FE1, Chip 7, ADC mean vs DAC0
χ^2 / ndf 26.63 / 11
p0 122.3 ± 0.04126
p1 3.156e-07 ± 1.118e-06
122.5
122.4
122.3
122.2
122.1
122
121.9
121.8
0
10000
20000
30000
40000
50000
60000

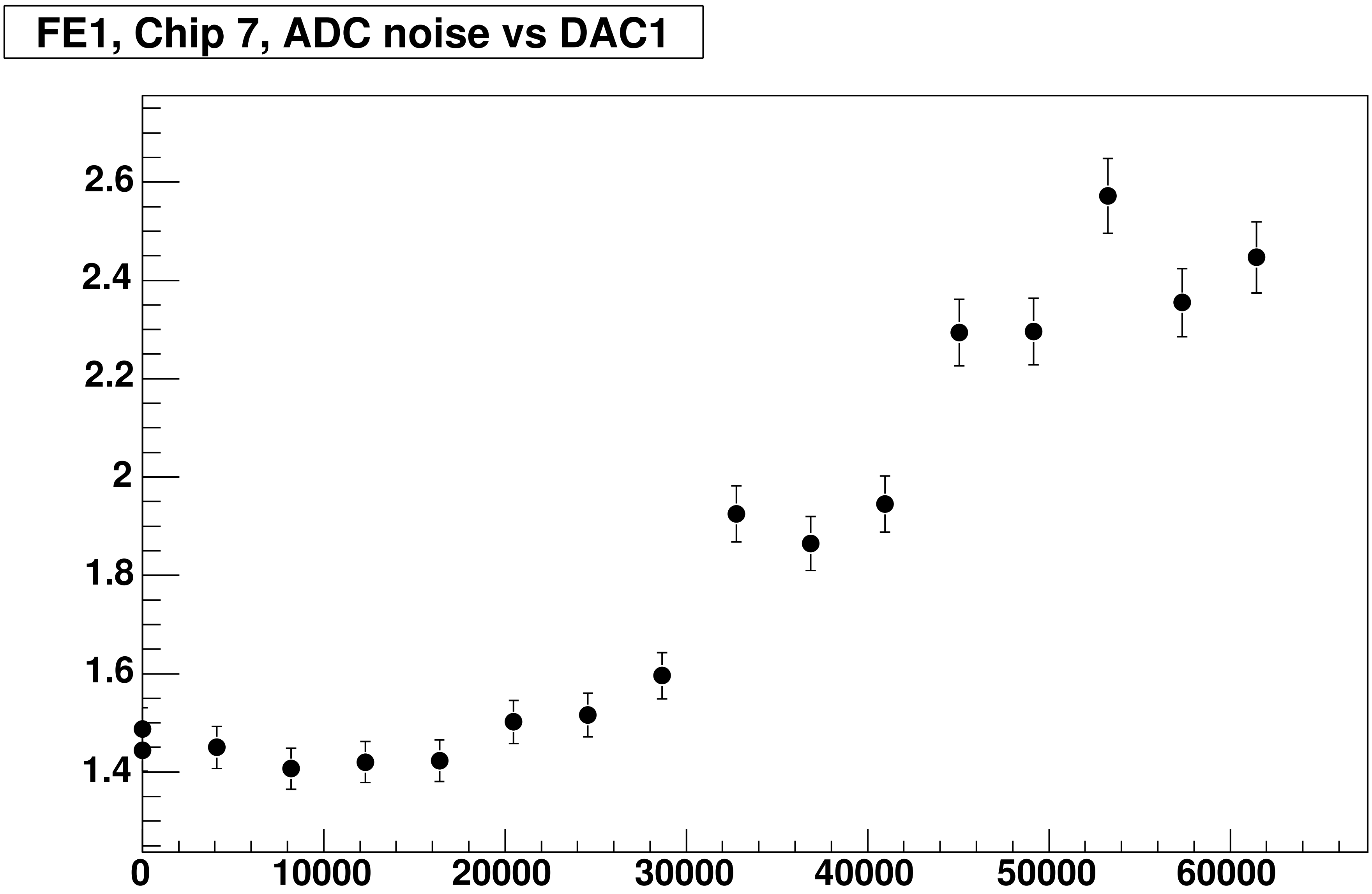


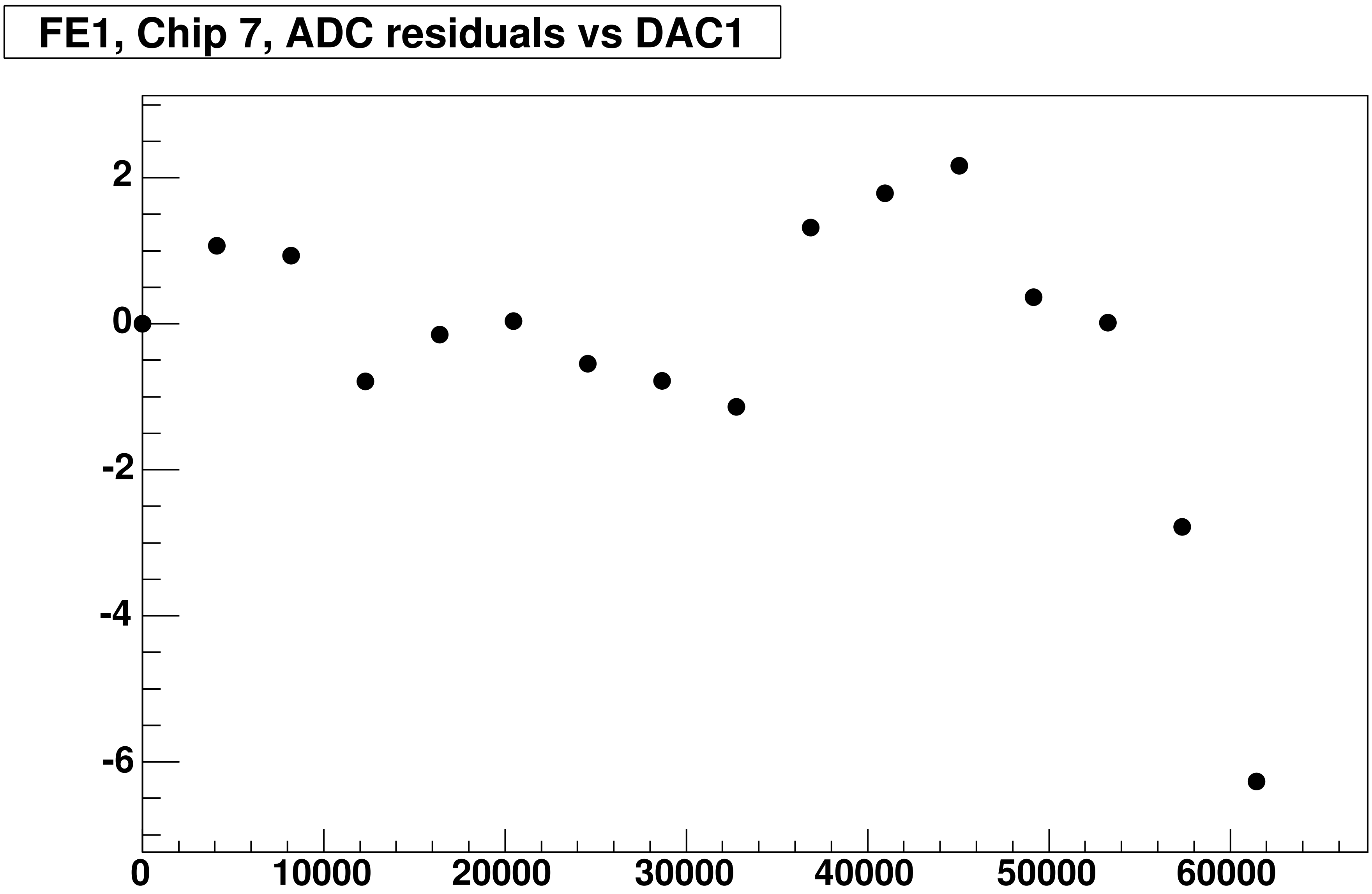
FE1, Chip 7, ADC noise vs DAC0
5
4.5
4
3.5
3
2.5
2
1.5
1
0
10000
20000
30000
40000
50000
60000



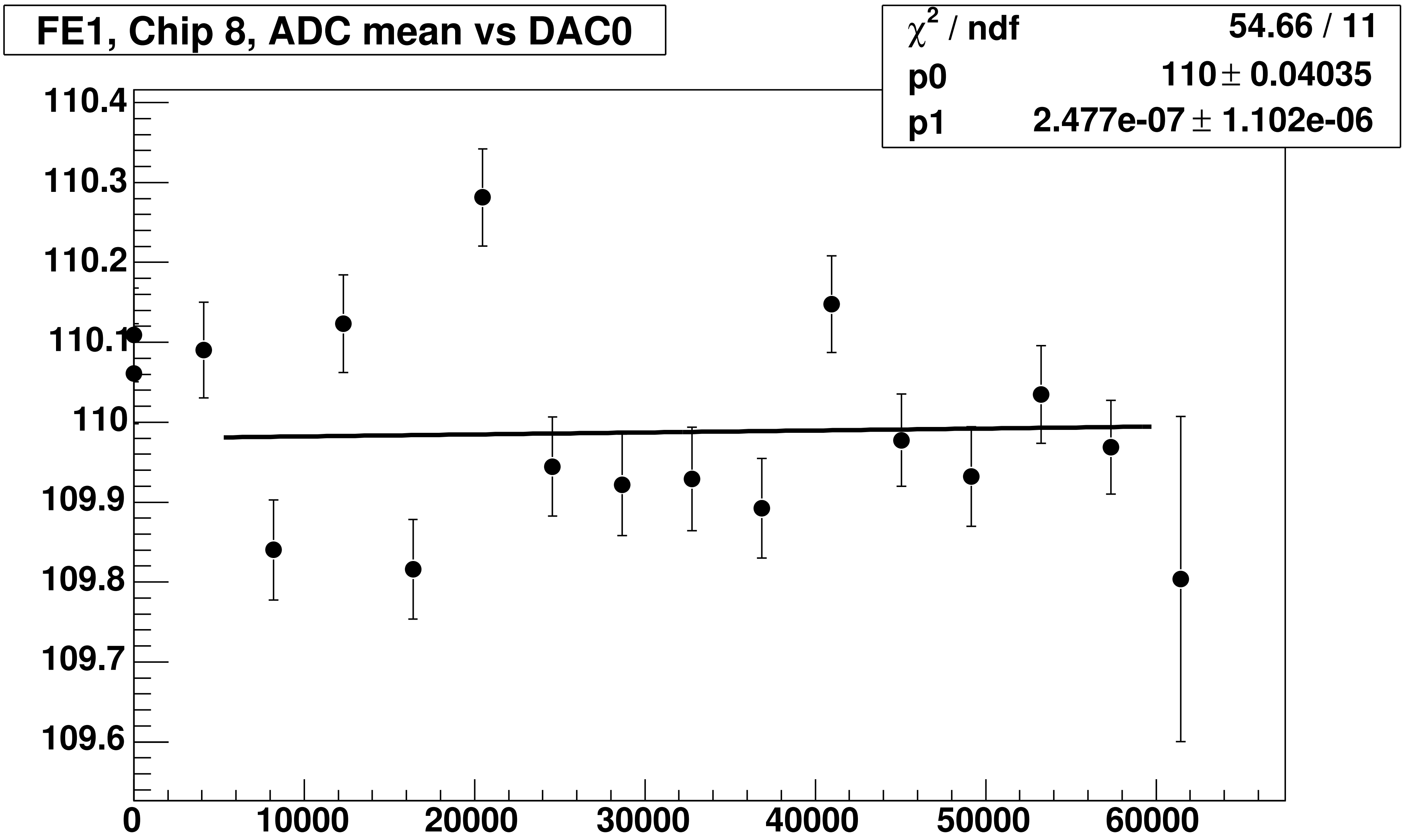
FE1, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000


FE1, Chip 7, ADC mean vs DAC1
χ2 / ndf 2955 / 11
p0 121 ± 0.04291
p1 0.4513 ± 1.406e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

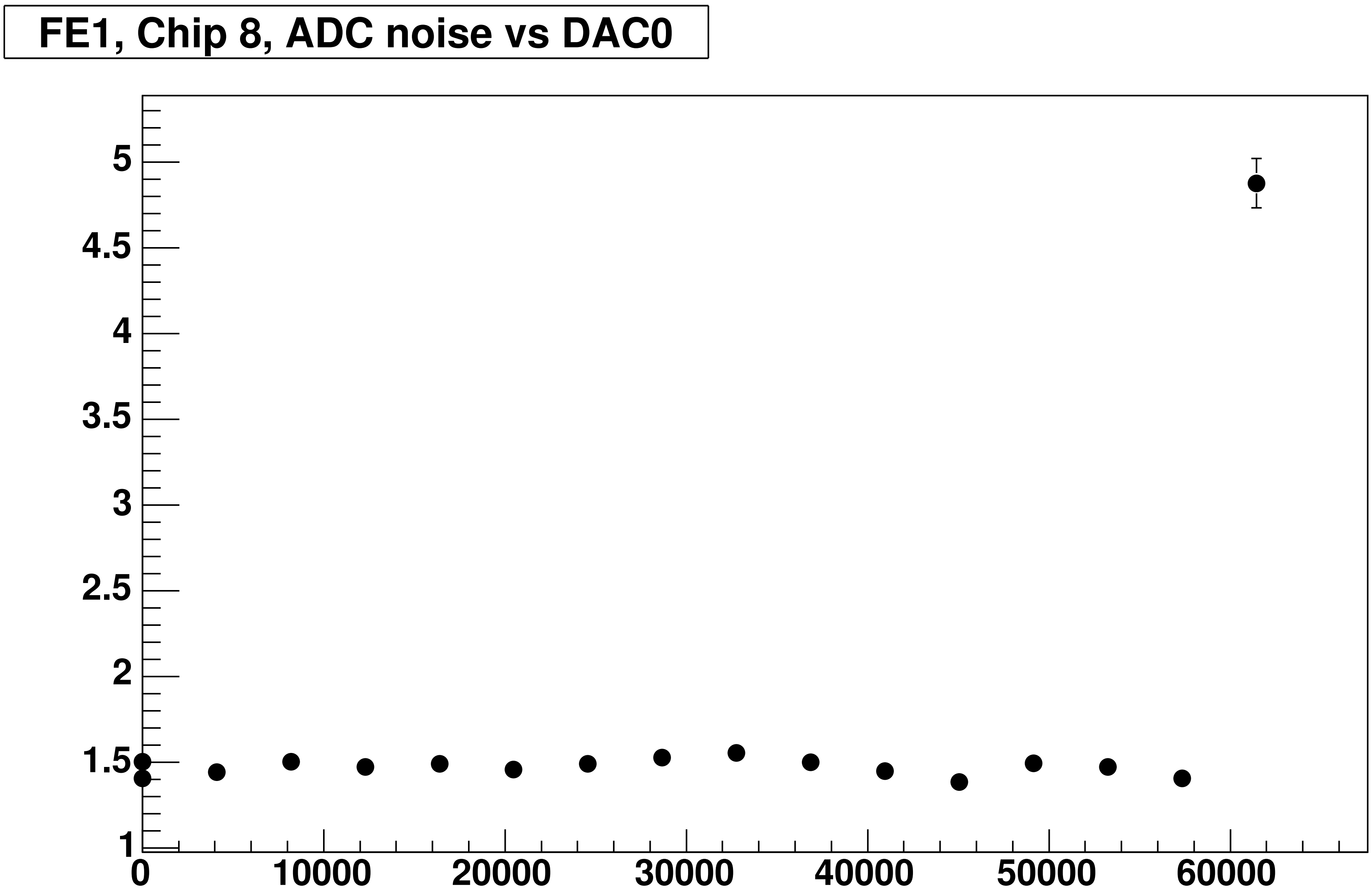

FE1, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



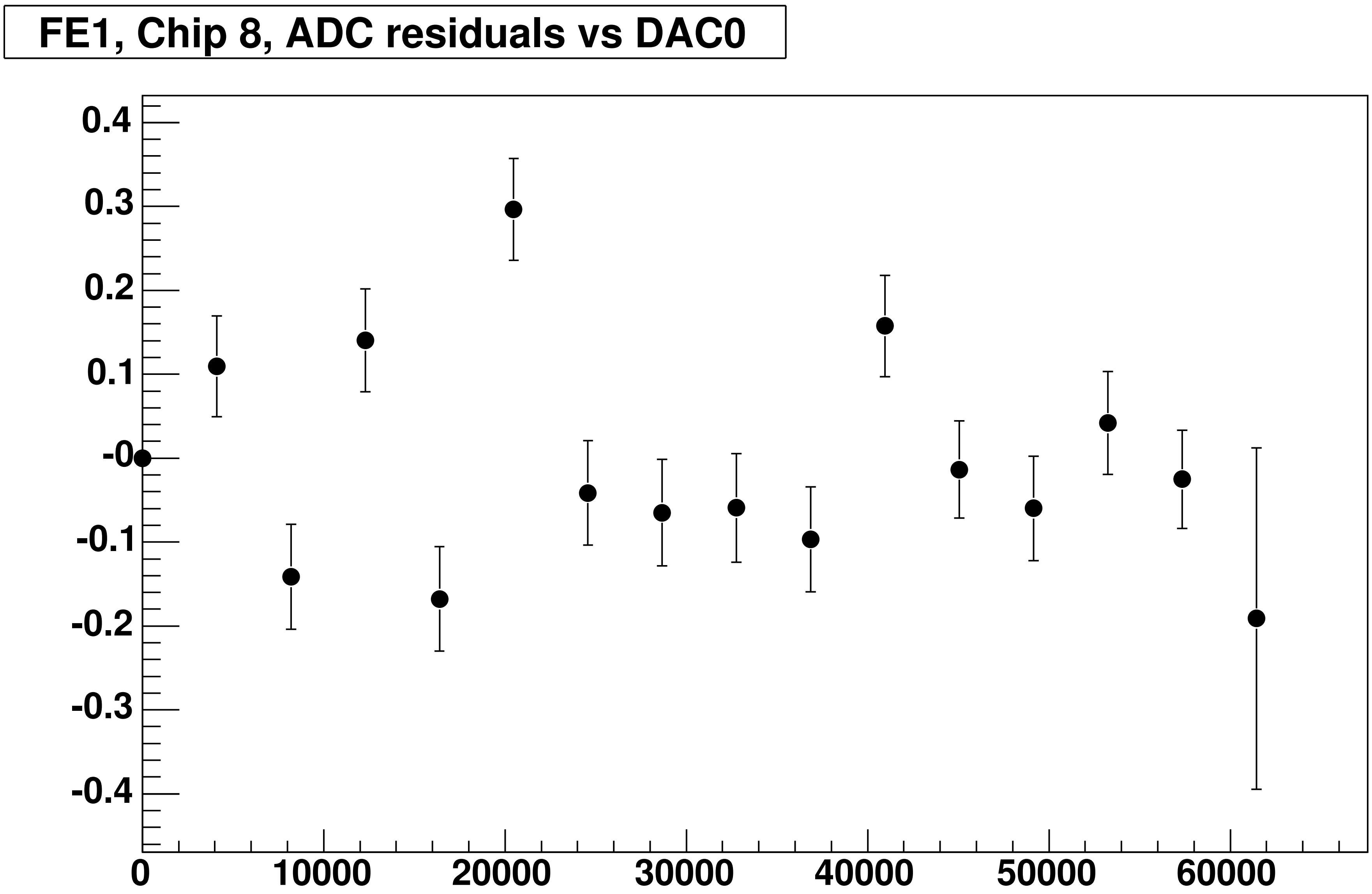
FE1, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

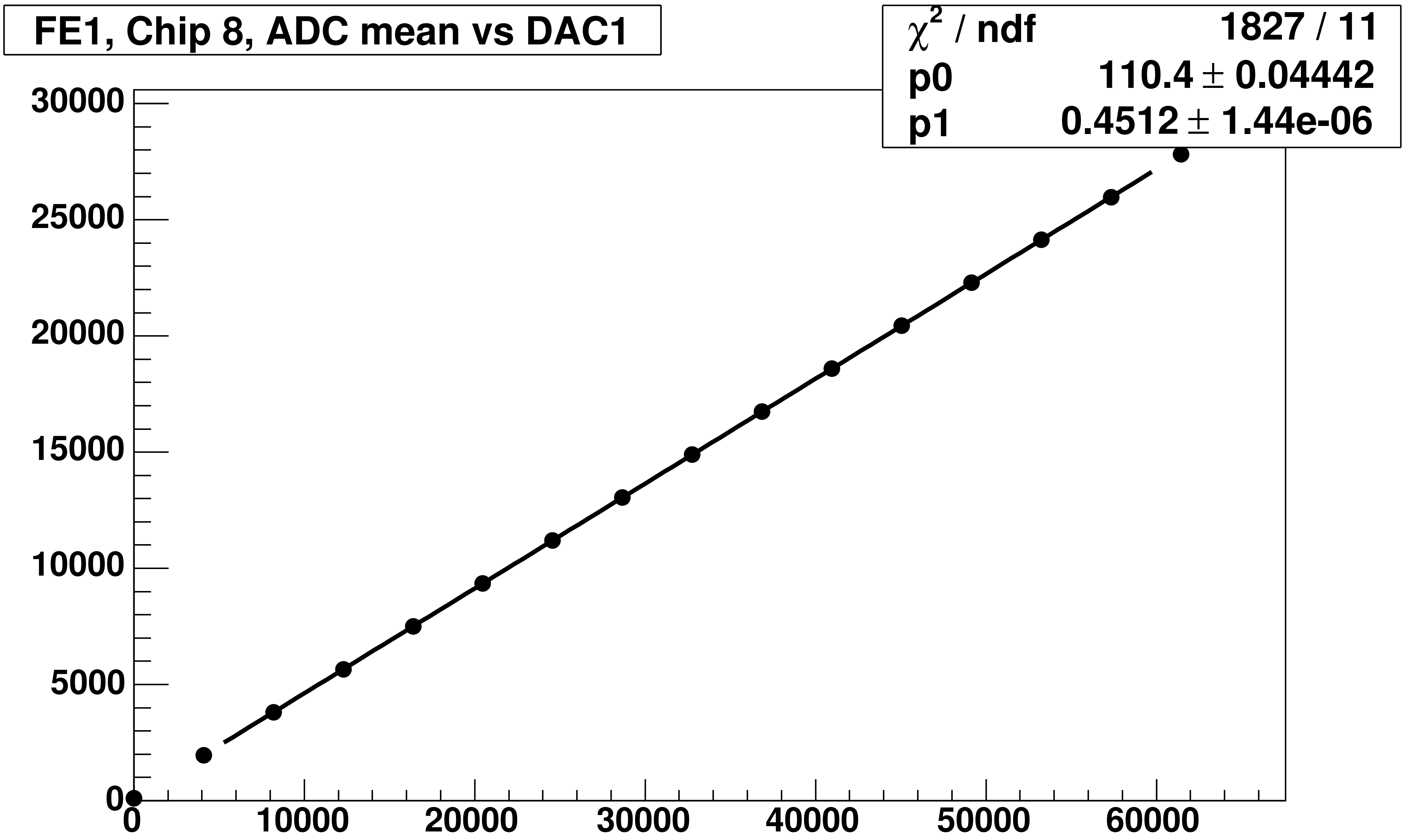


FE1, Chip 8, ADC mean vs DAC0
χ^2 / ndf 54.66 / 11
p0 110 ± 0.04035
p1 2.477e-07 ± 1.102e-06
110.4
110.3
110.2
110.1
110
109.9
109.8
109.7
109.6
0
10000
20000
30000
40000
50000
60000

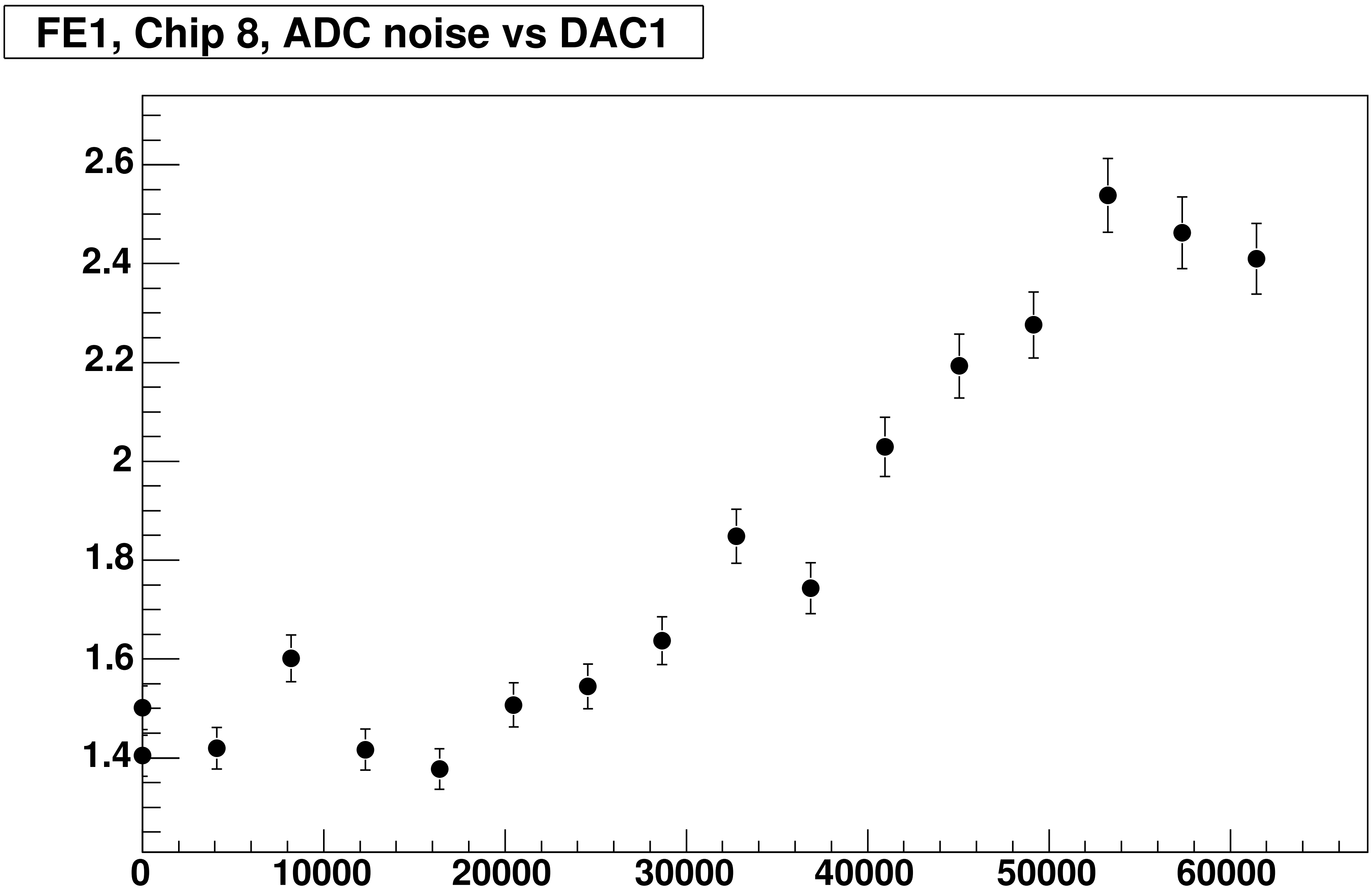


FE1, Chip 8, ADC noise vs DAC0
1
1.5
2
2.5
3
3.5
4
4.5
5
0
10000
20000
30000
40000
50000
60000

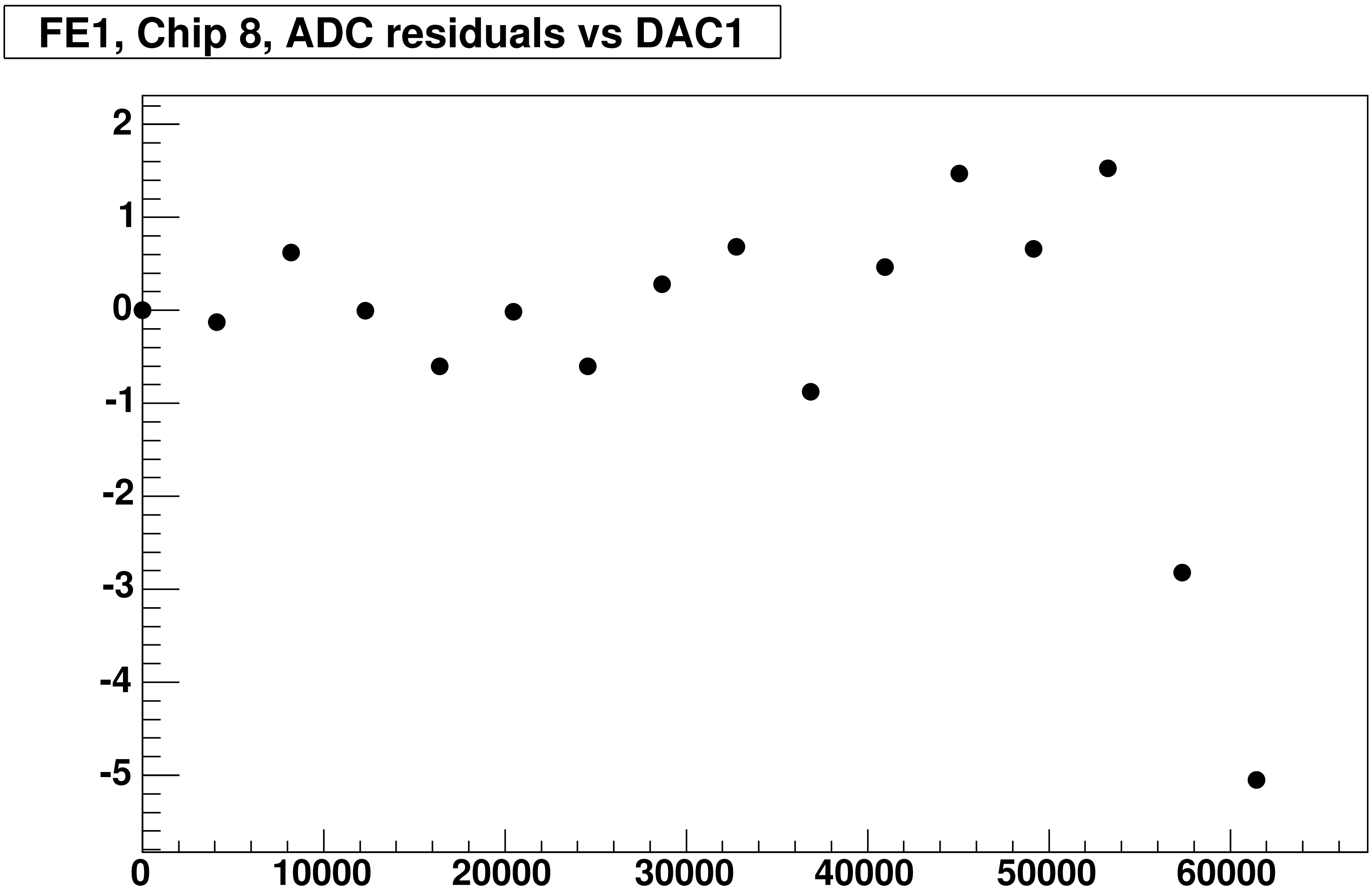

FE1, Chip 8, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



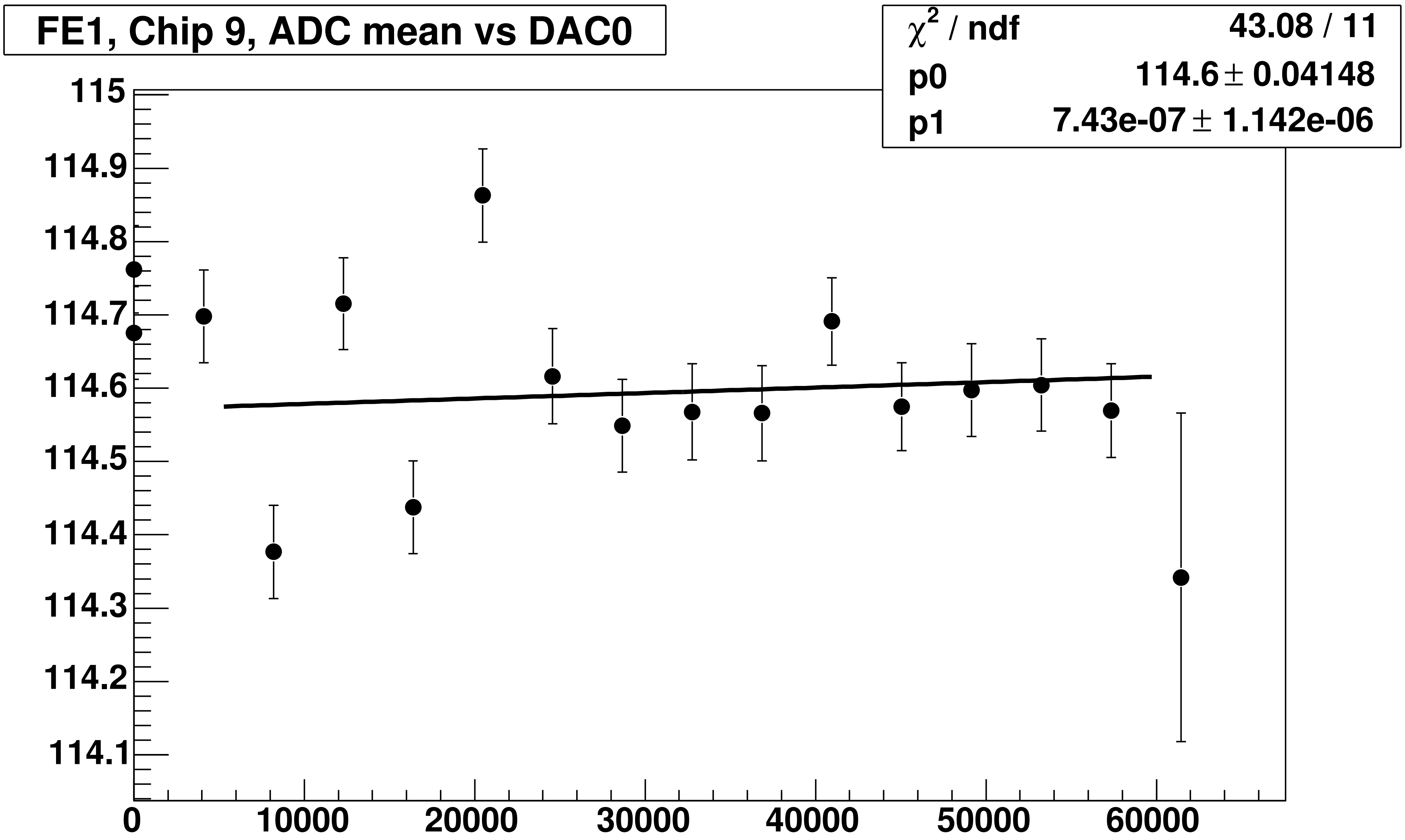
FE1, Chip 8, ADC mean vs DAC1
χ2 / ndf 1827 / 11
p0 110.4 ± 0.04442
p1 0.4512 ± 1.44e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

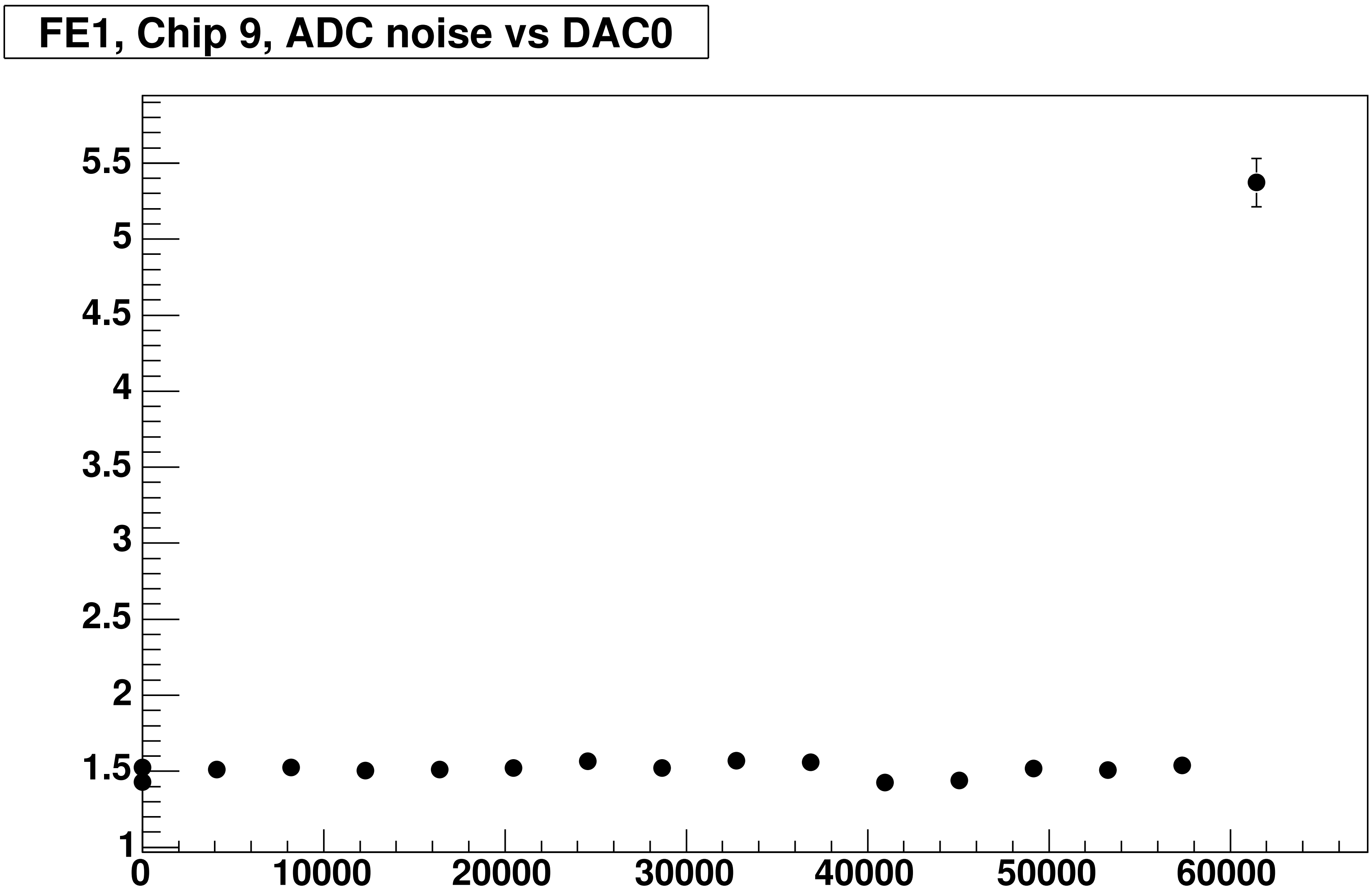


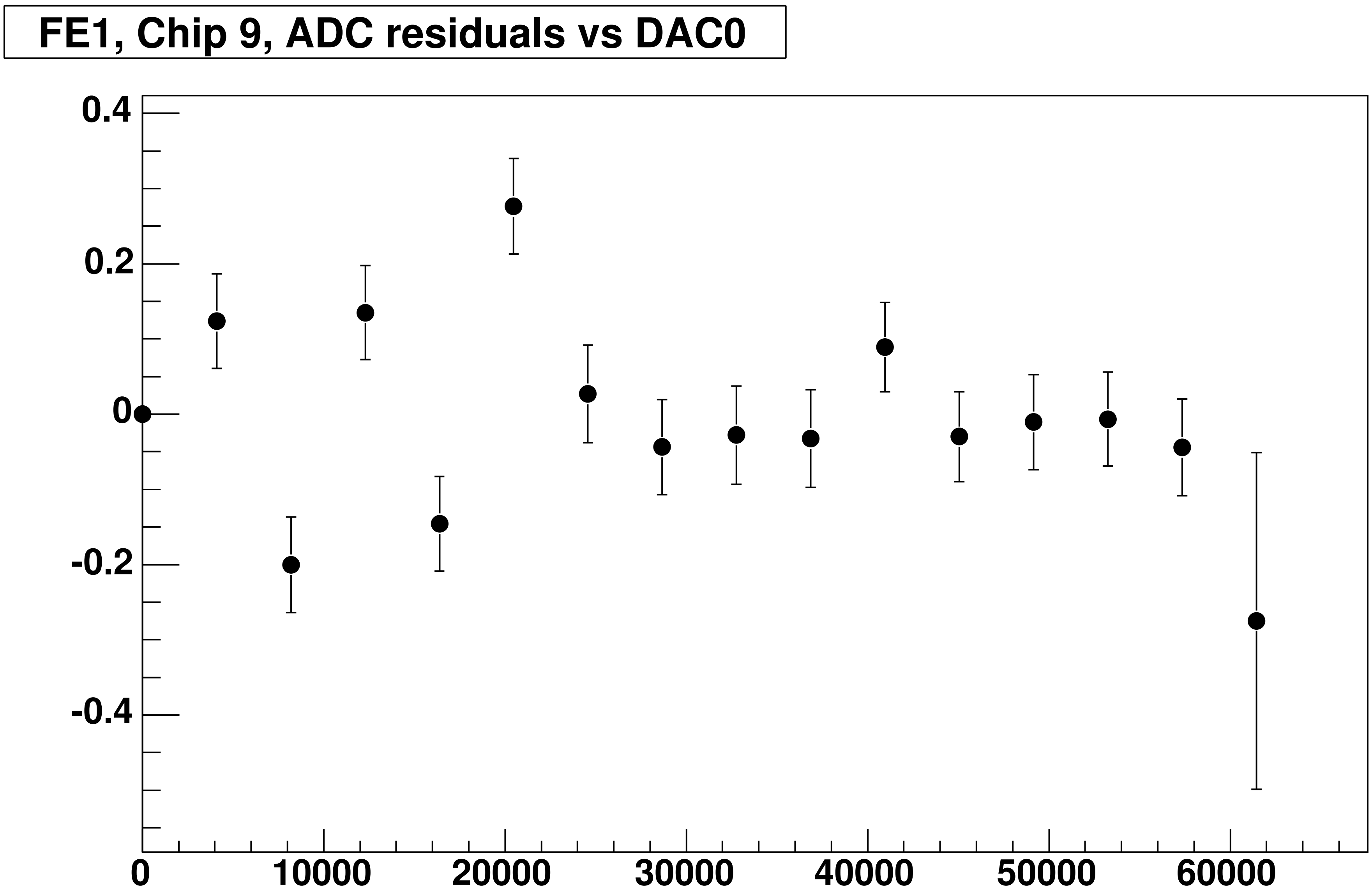
FE1, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



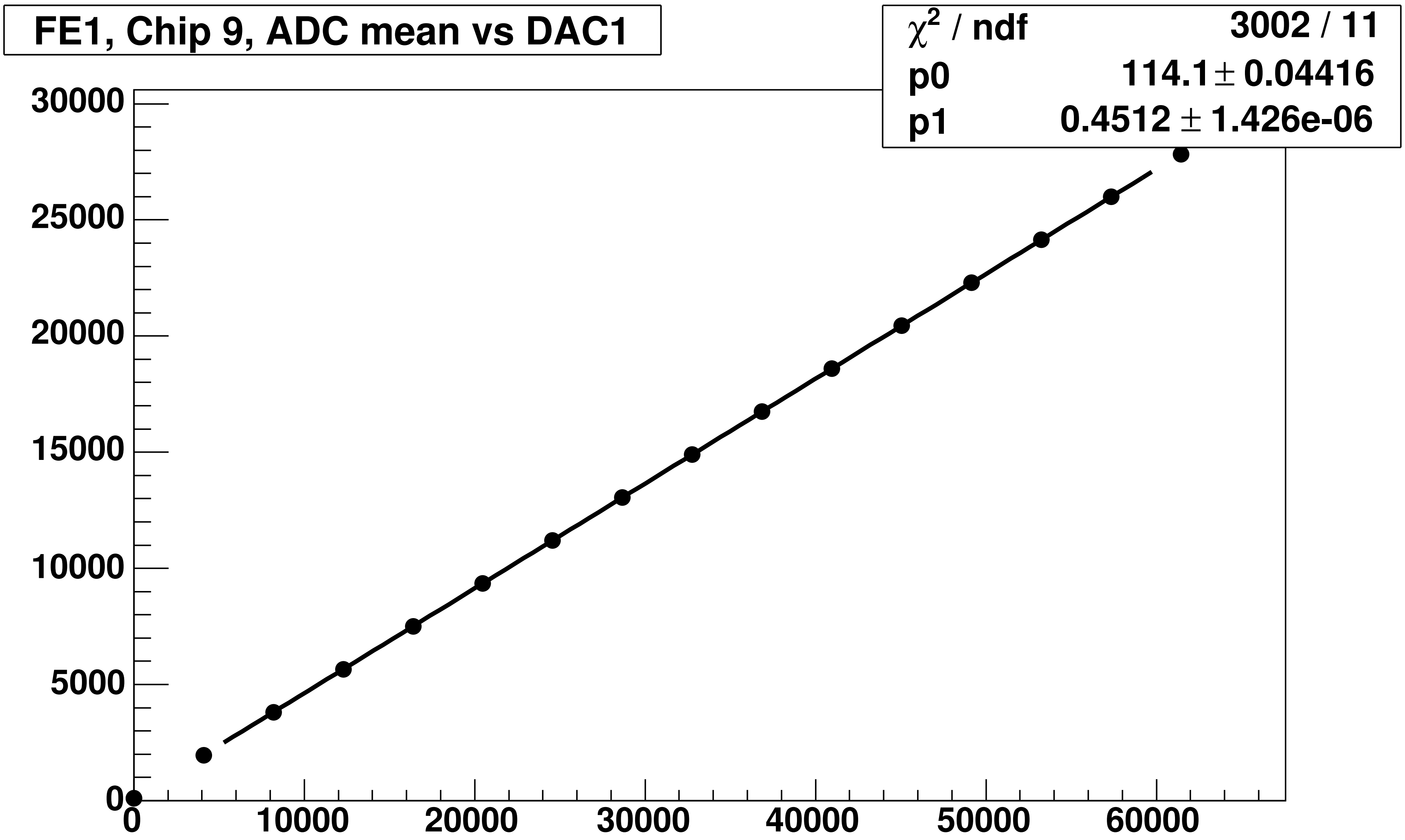
FE1, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE1, Chip 9, ADC mean vs DAC0
χ^2 / ndf 43.08 / 11
p0 114.6 ± 0.04148
p1 7.43e-07 ± 1.142e-06
115
114.9
114.8
114.7
114.6
114.5
114.4
114.3
114.2
114.1
0
10000
20000
30000
40000
50000
60000

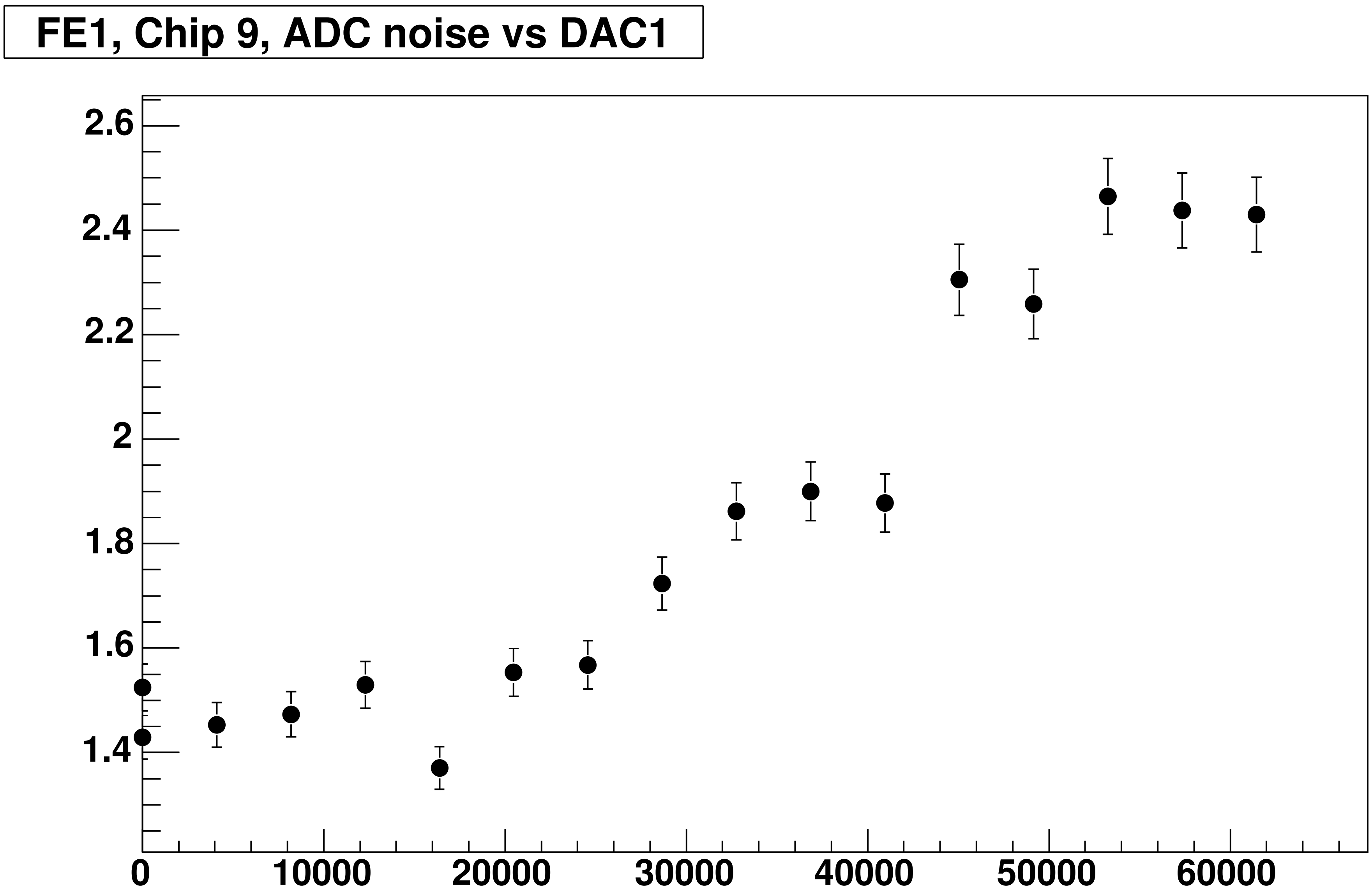

FE1, Chip 9, ADC noise vs DAC0
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0
10000
20000
30000
40000
50000
60000

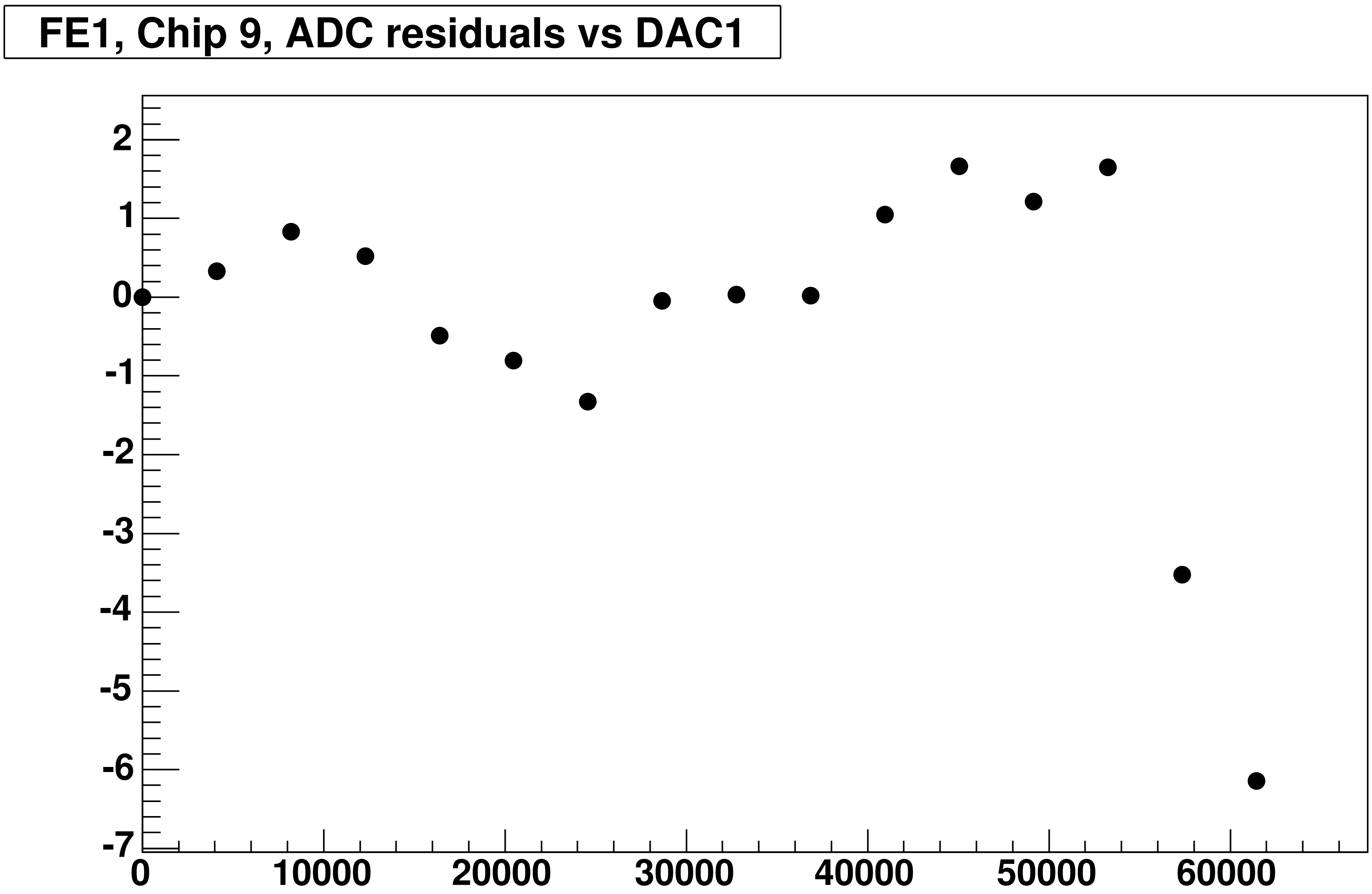


FE1, Chip 9, ADC residuals vs DAC0
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

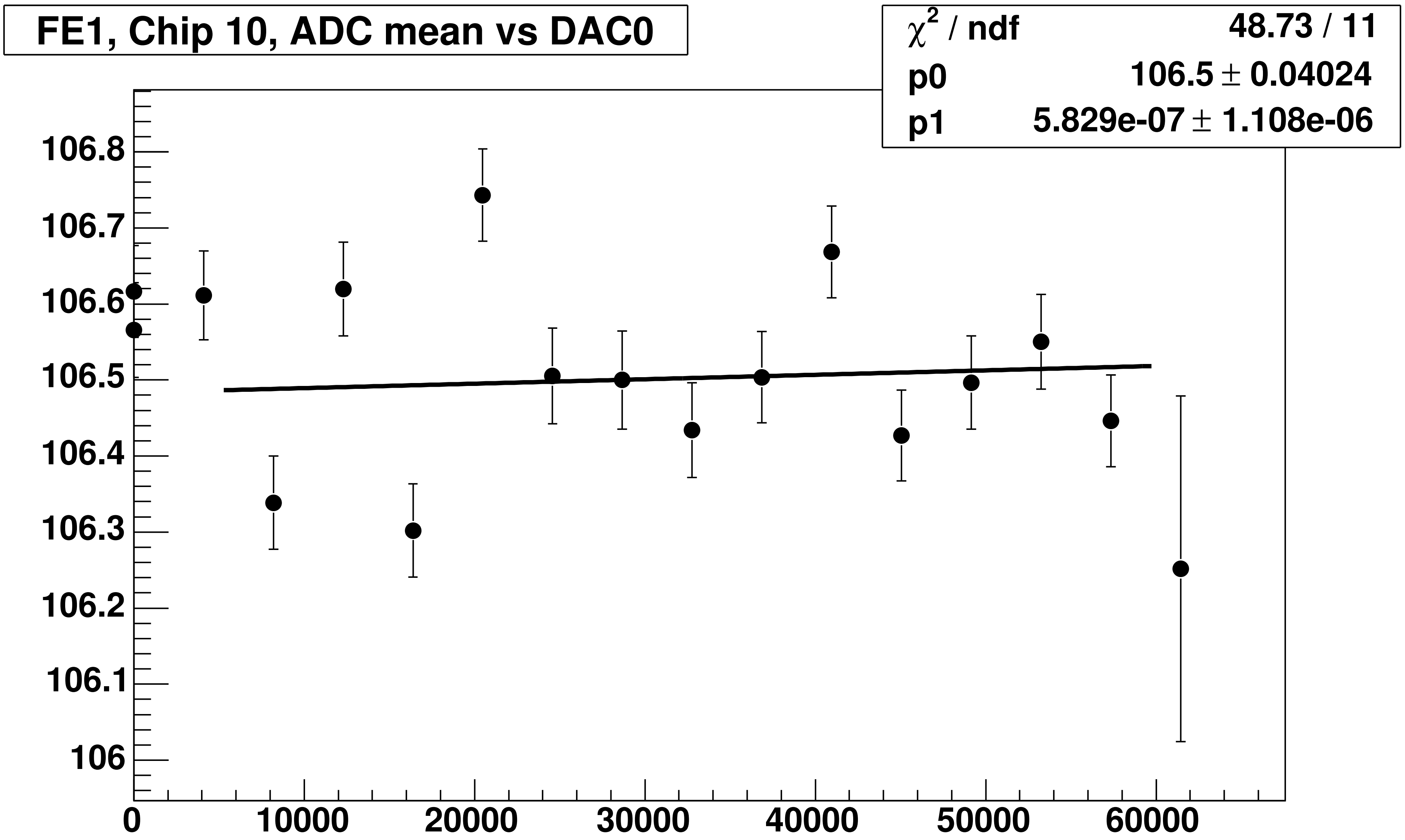


FE1, Chip 9, ADC mean vs DAC1
χ^2 / ndf 3002 / 11
p0 114.1 ± 0.04416
p1 0.4512 ± 1.426e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

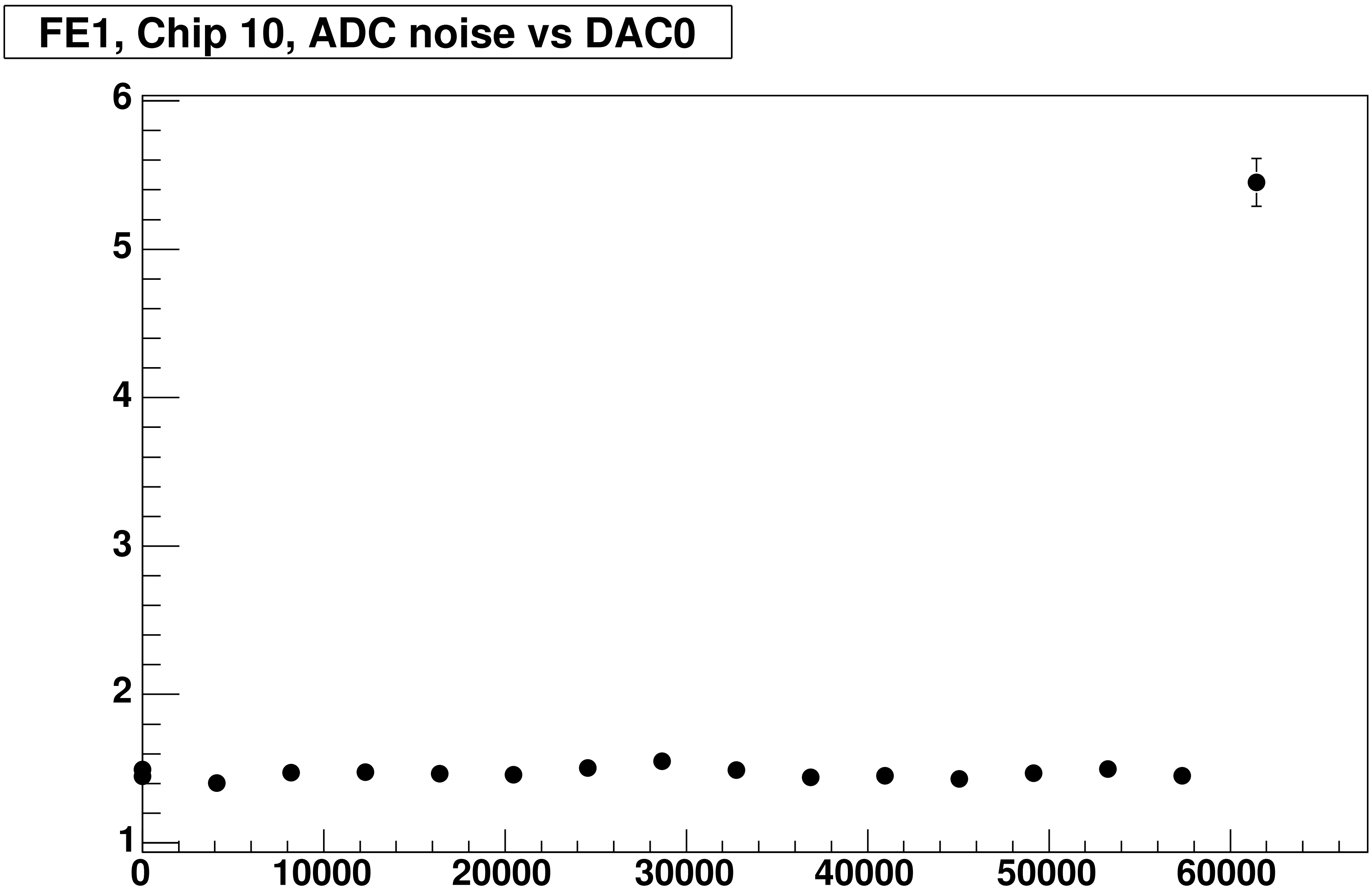

FE1, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



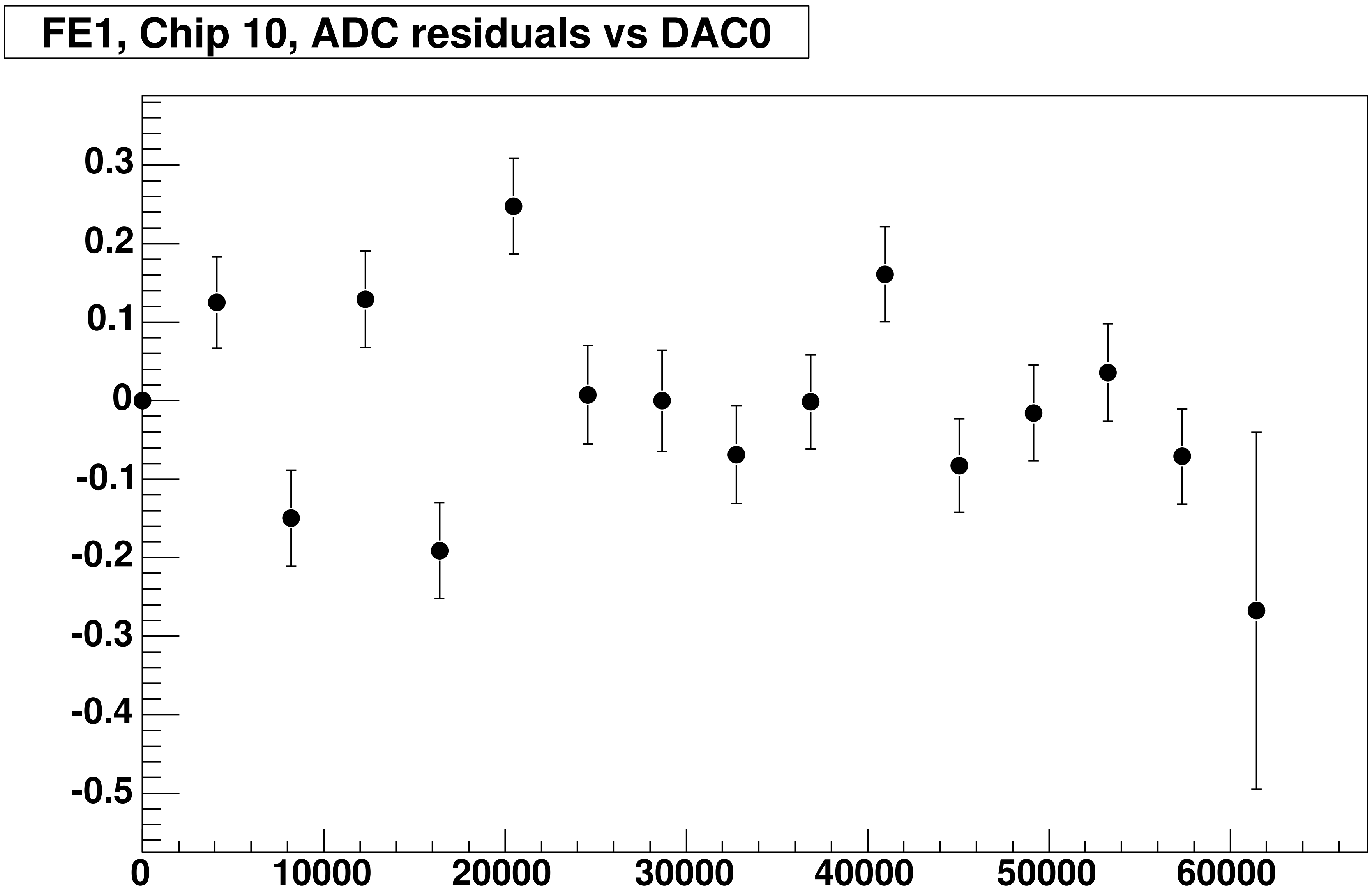
FE1, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

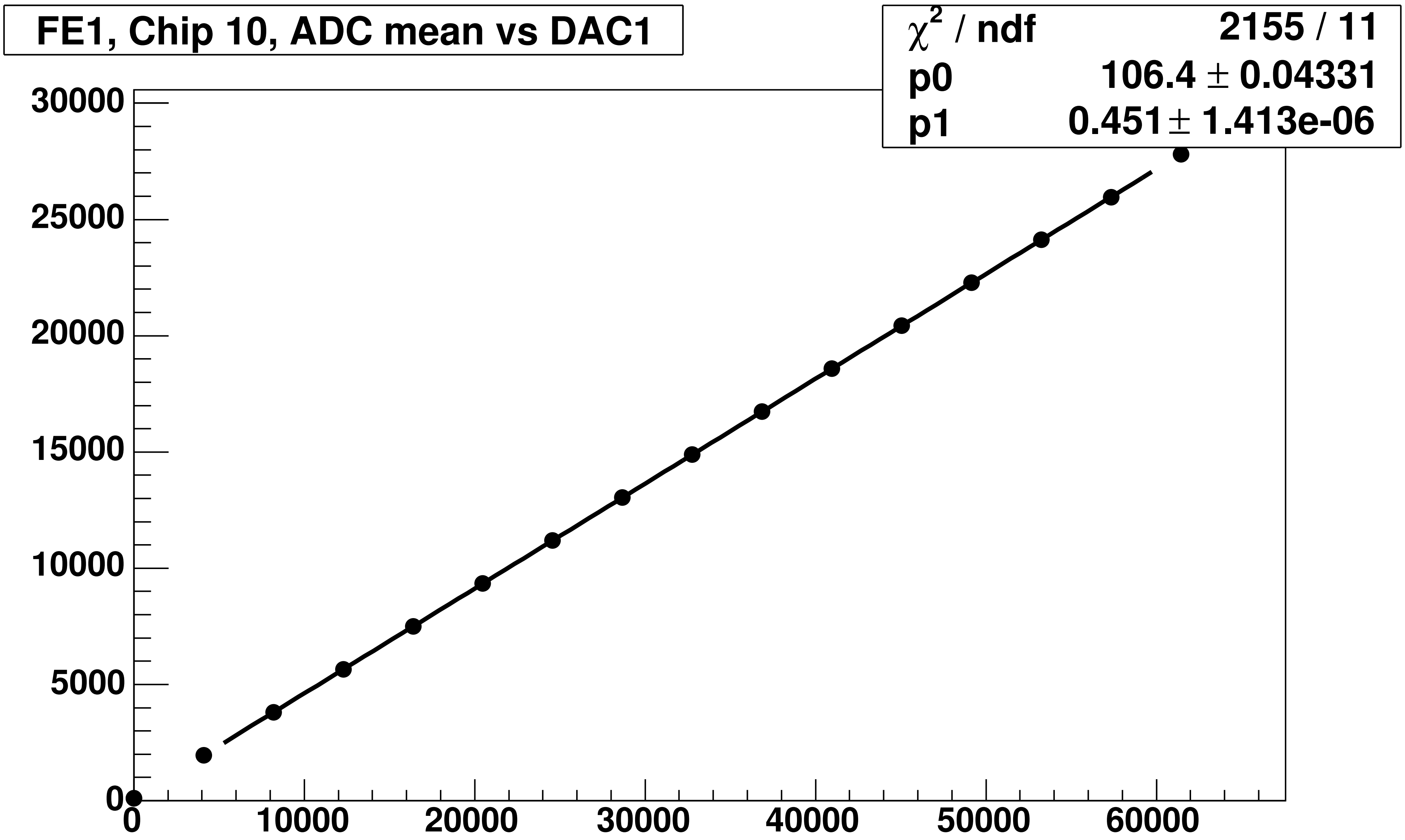


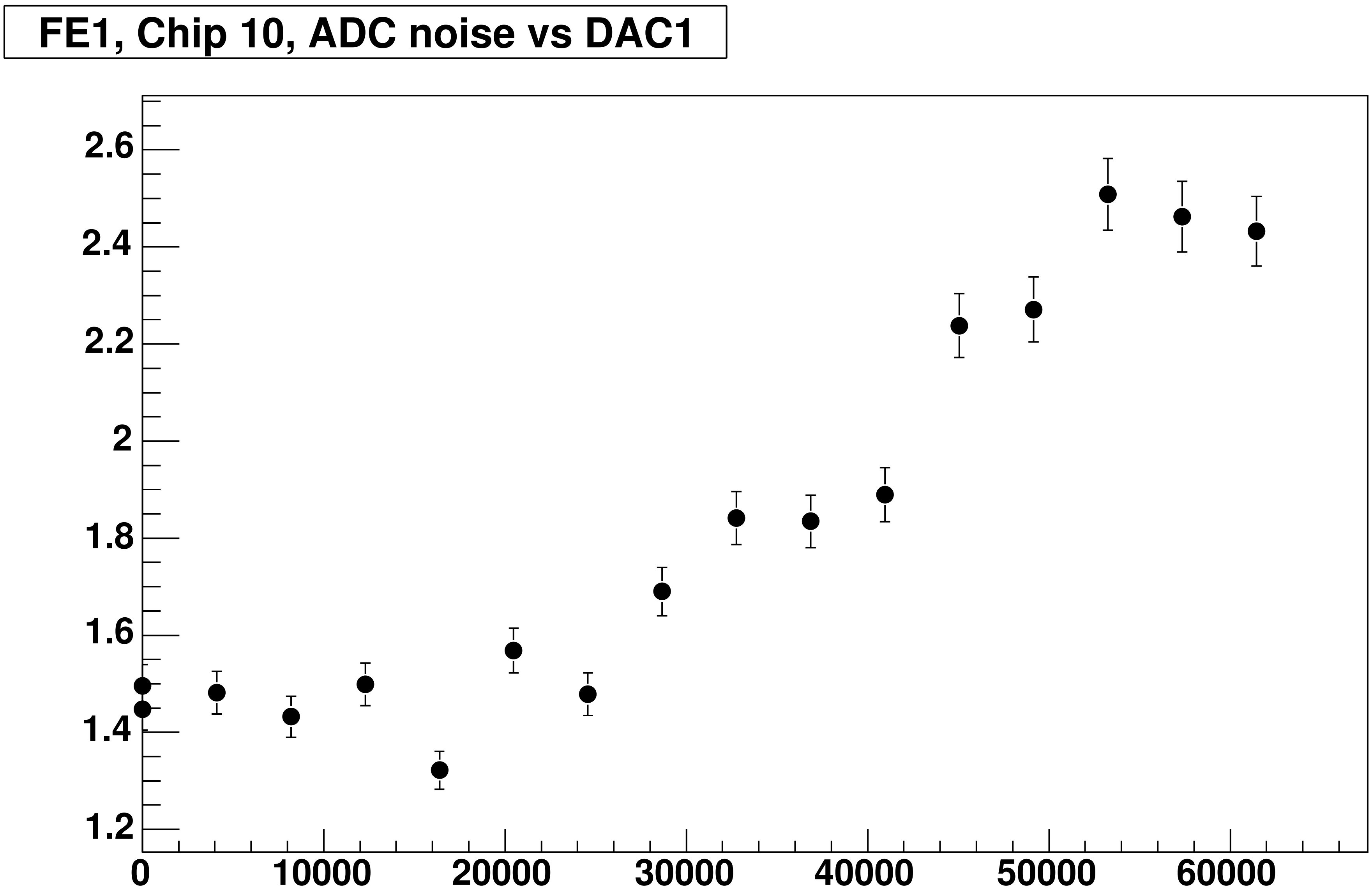
FE1, Chip 10, ADC mean vs DAC0
χ^2 / ndf 48.73 / 11
p0 106.5 ± 0.04024
p1 5.829e-07 ± 1.108e-06
106.8
106.7
106.6
106.5
106.4
106.3
106.2
106.1
106
0
10000
20000
30000
40000
50000
60000



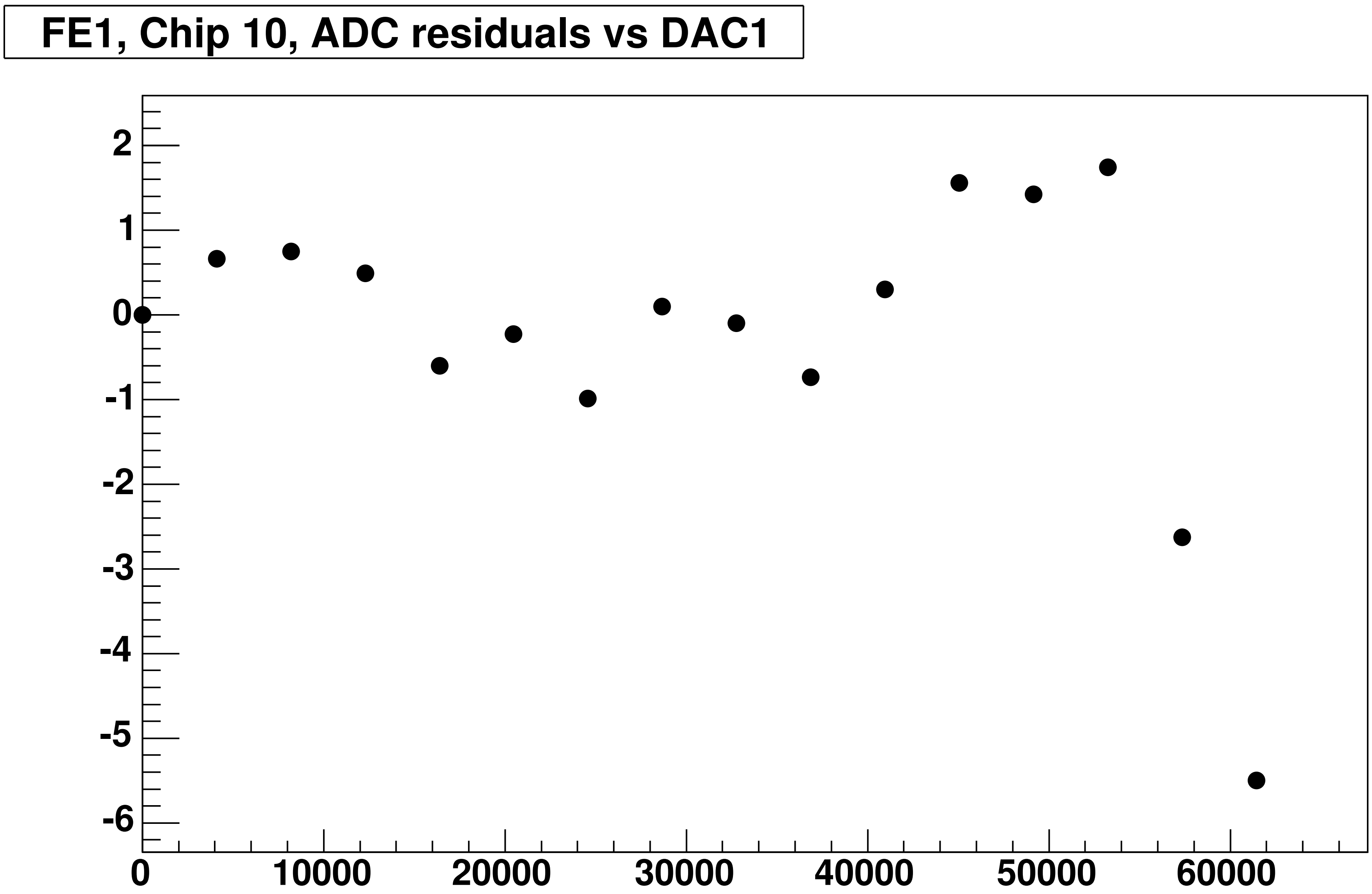
FE1, Chip 10, ADC noise vs DAC0
6
5
4
3
2
1
0
10000
20000
30000
40000
50000
60000


FE1, Chip 10, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

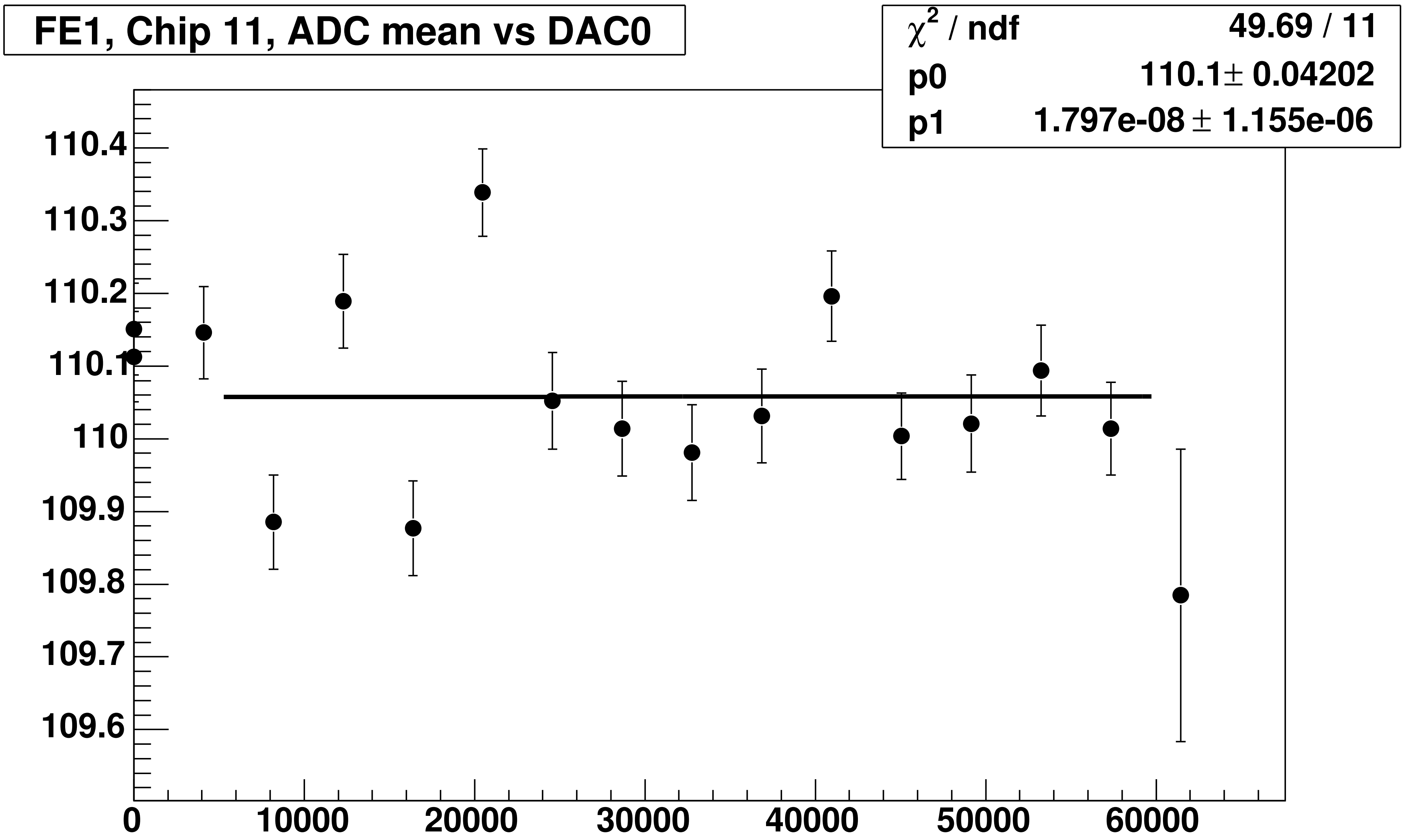

FE1, Chip 10, ADC mean vs DAC1
χ^2 / ndf 2155 / 11
p0 106.4 ± 0.04331
p1 0.451 ± 1.413e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

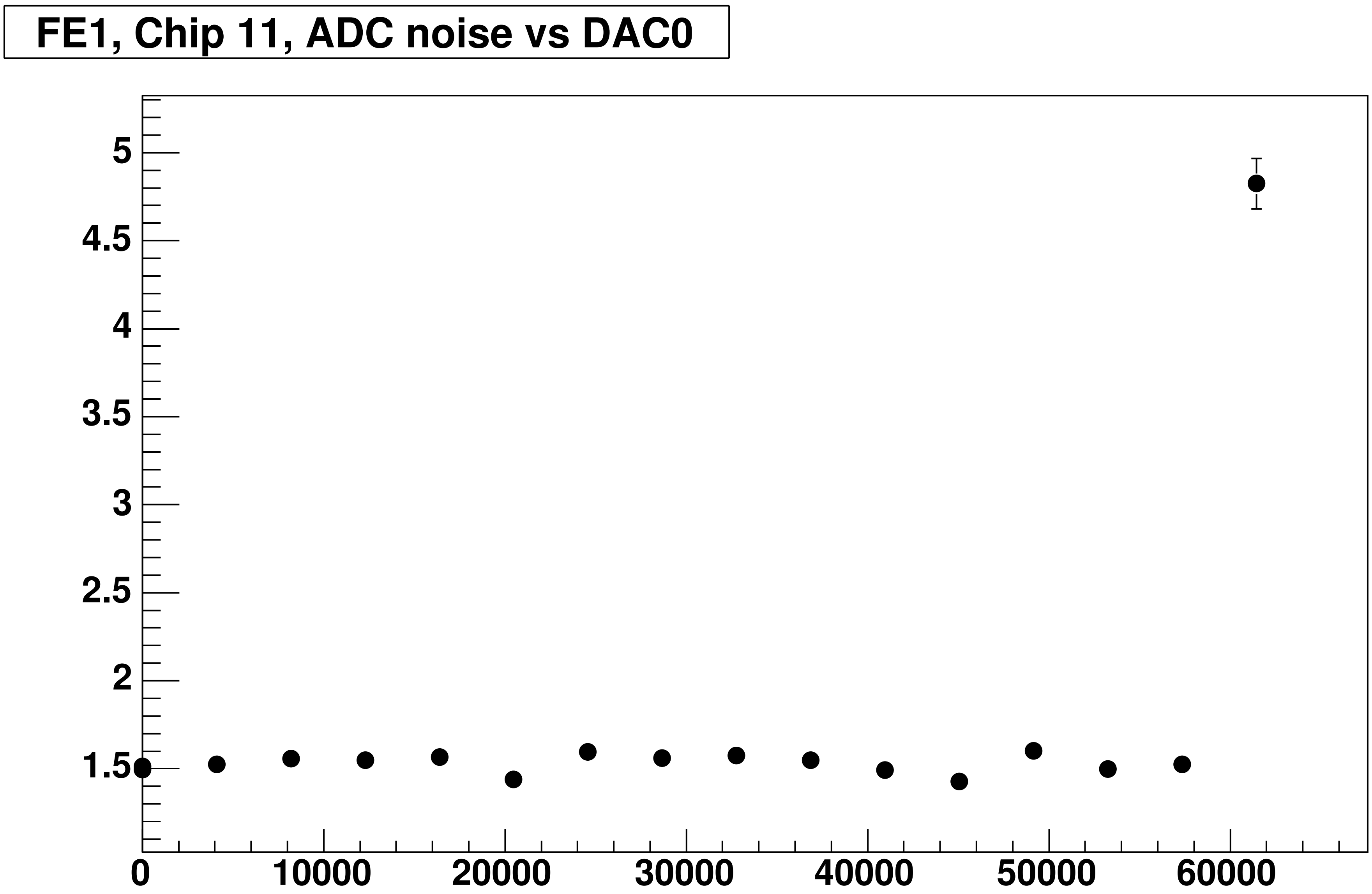


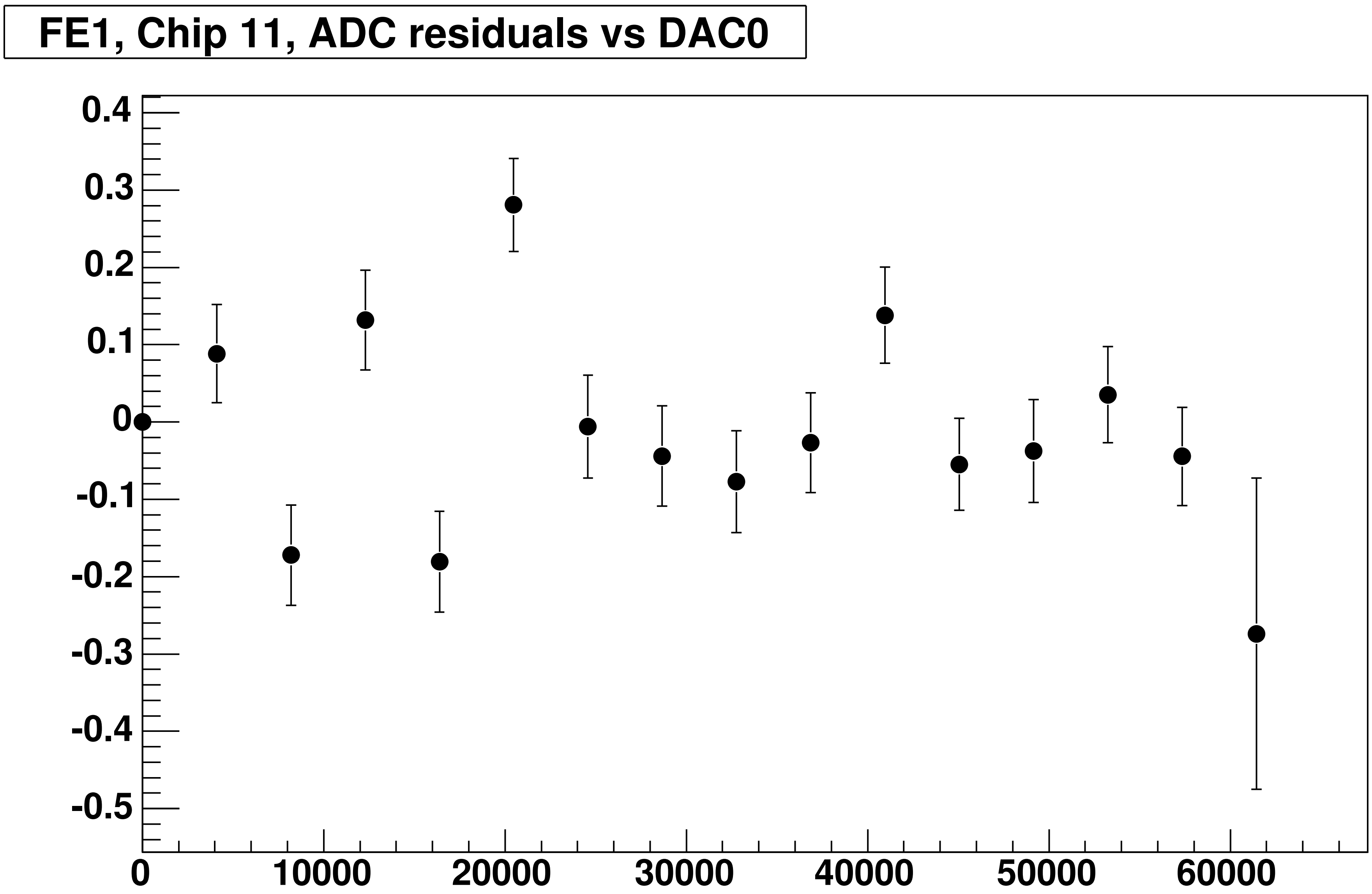
FE1, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

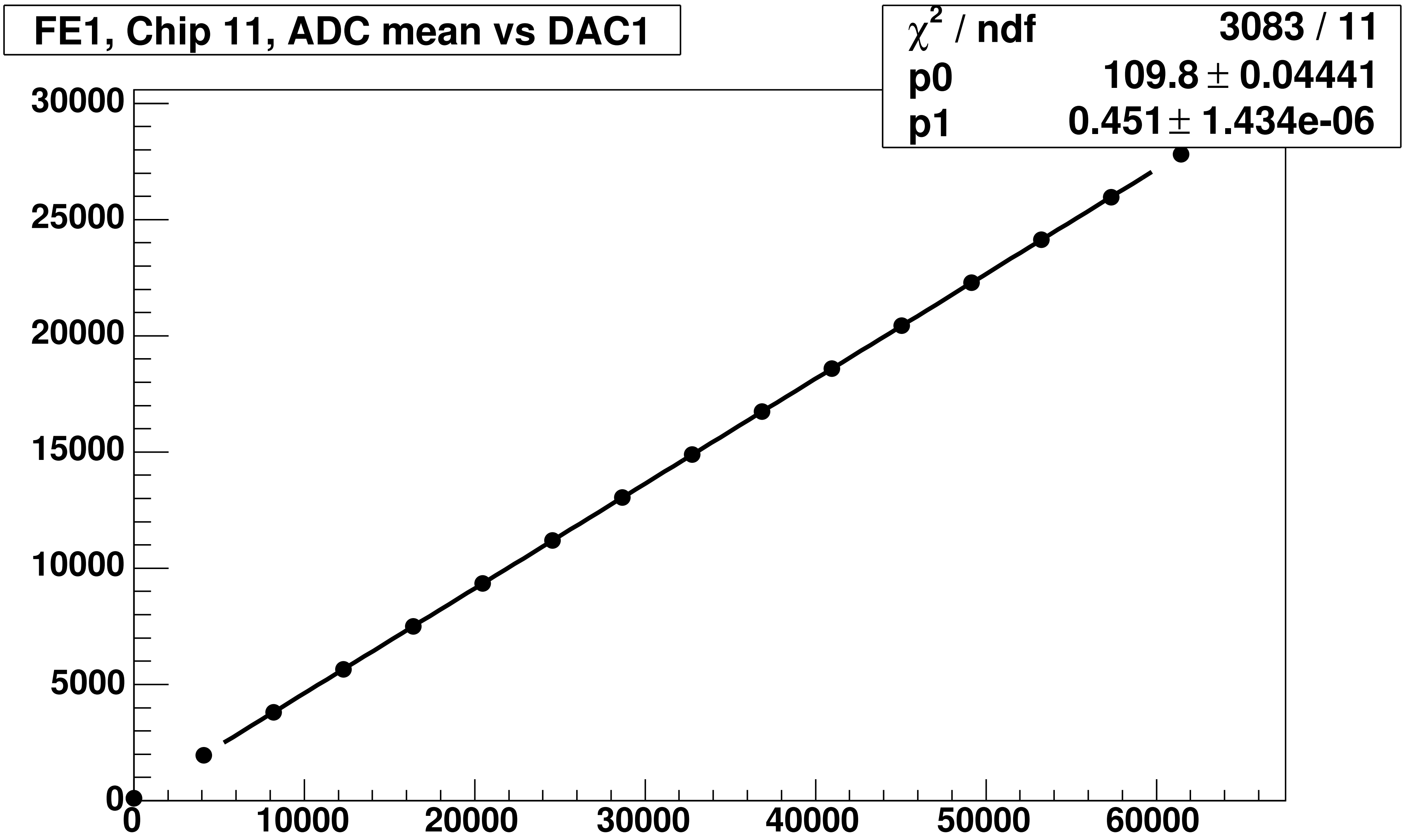


FE1, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

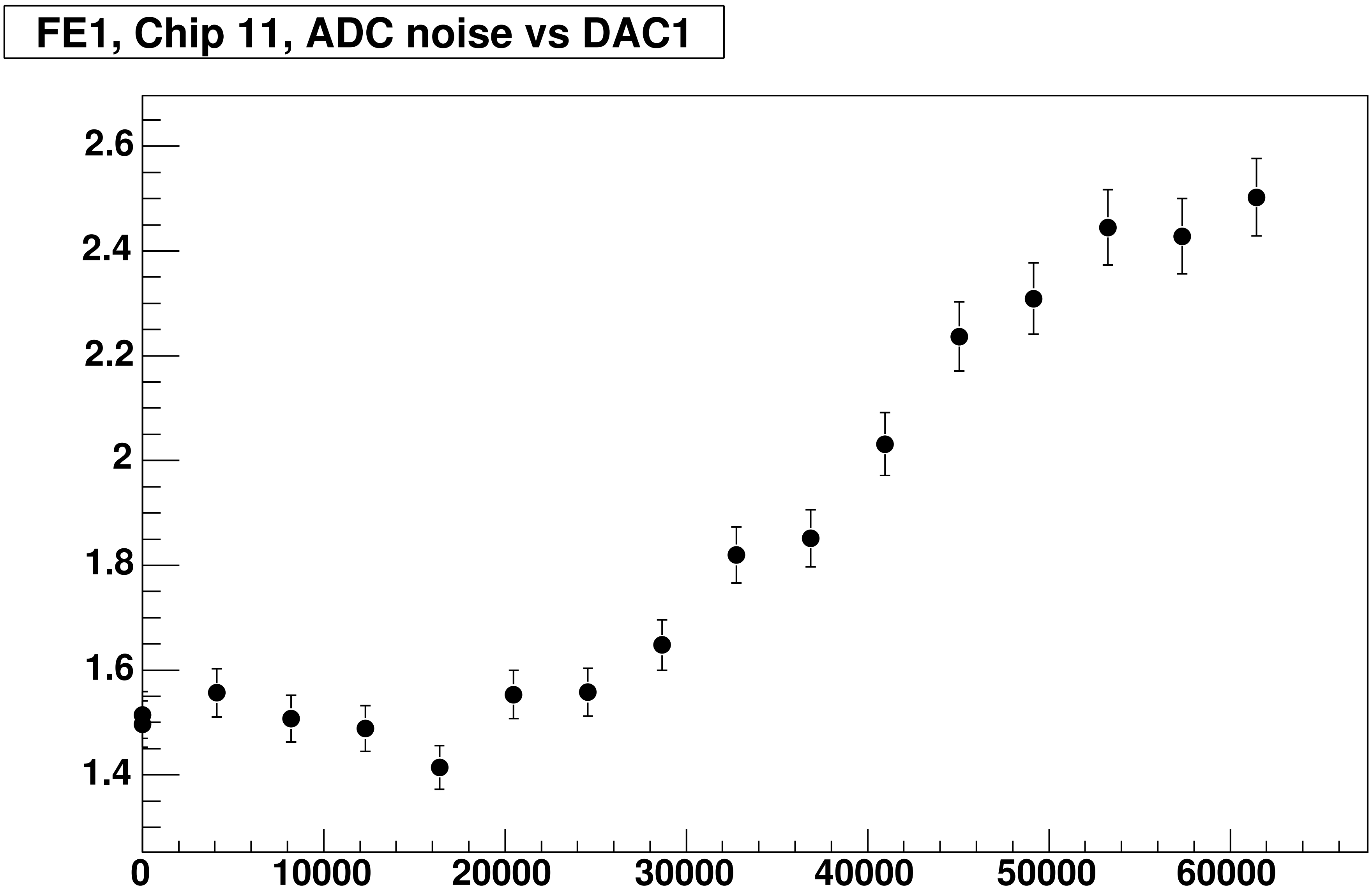

FE1, Chip 11, ADC mean vs DAC0
χ2 / ndf 49.69 / 11
p0 110.1± 0.04202
p1 1.797e-08 ± 1.155e-06
110.4
110.3
110.2
110.1
110
109.9
109.8
109.7
109.6
0
10000
20000
30000
40000
50000
60000


FE1, Chip 11, ADC noise vs DAC0
5
4.5
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

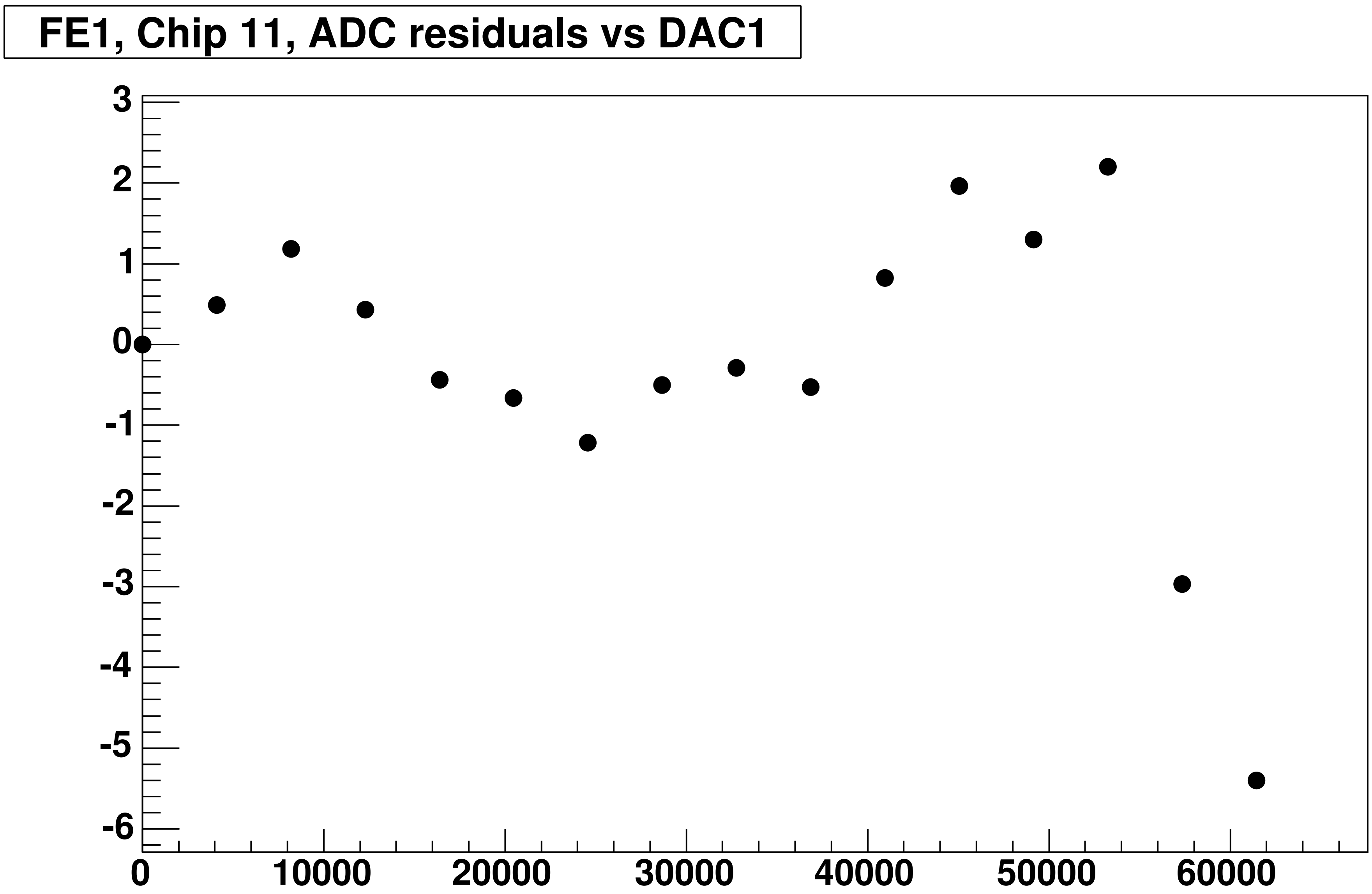

FE1, Chip 11, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

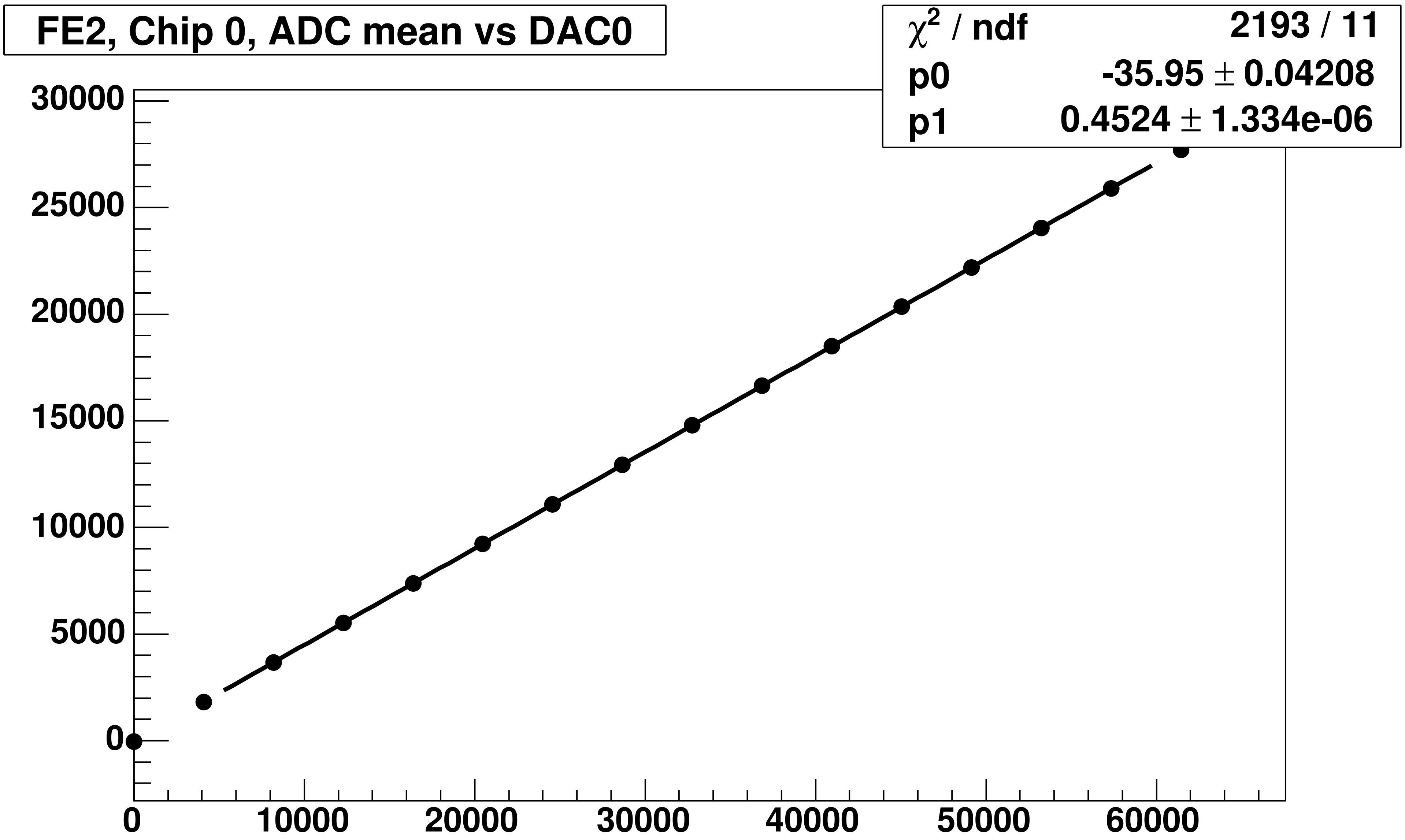


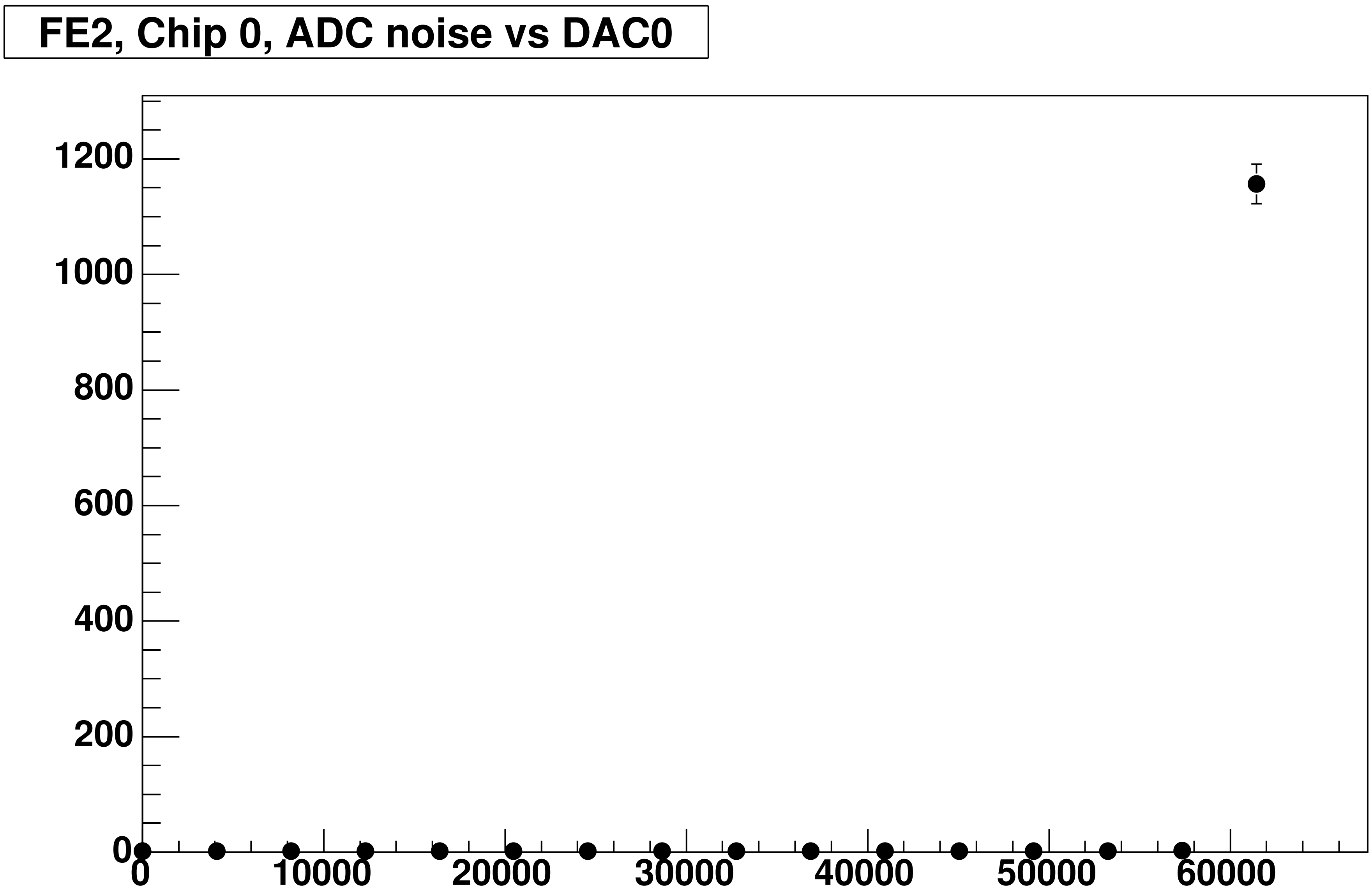
FE1, Chip 11, ADC mean vs DAC1
χ² / ndf 3083 / 11
p0 109.8 ± 0.04441
p1 0.451 ± 1.434e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



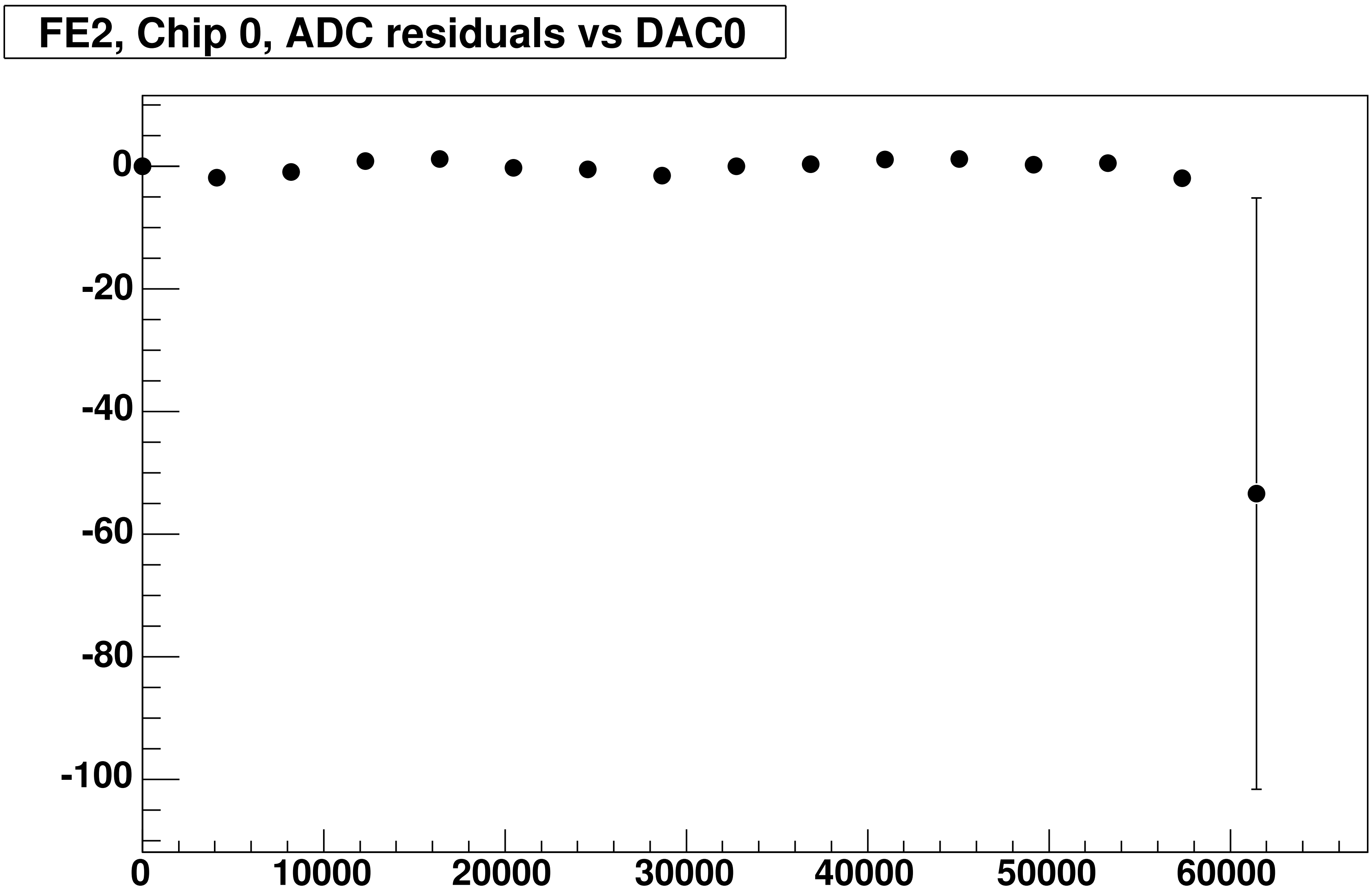
FE1, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

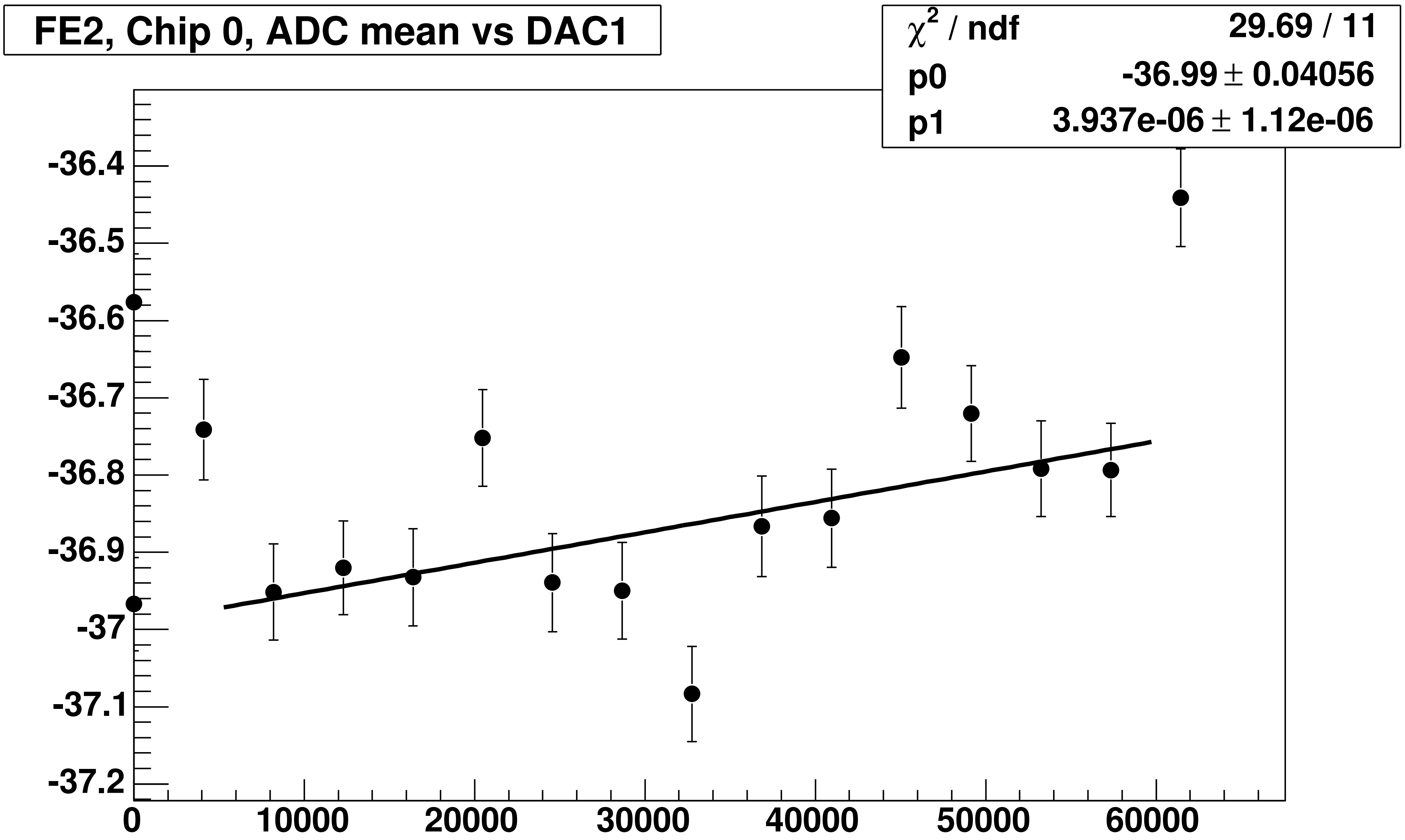

FE2, Chip 0, ADC mean vs DAC0
χ² / ndf 2193 / 11
p0 -35.95 ± 0.04208
p1 0.4524 ± 1.334e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

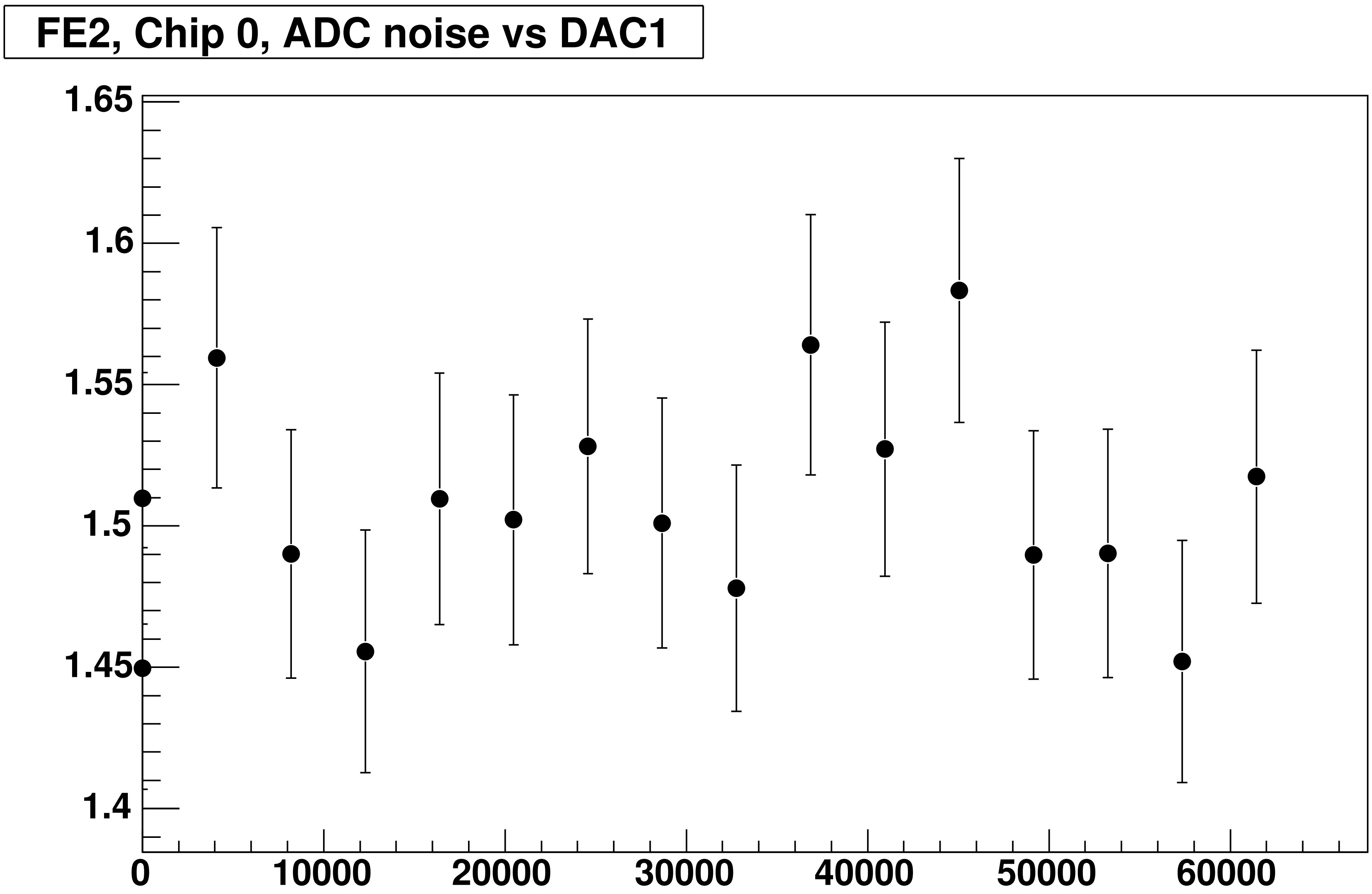


FE2, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

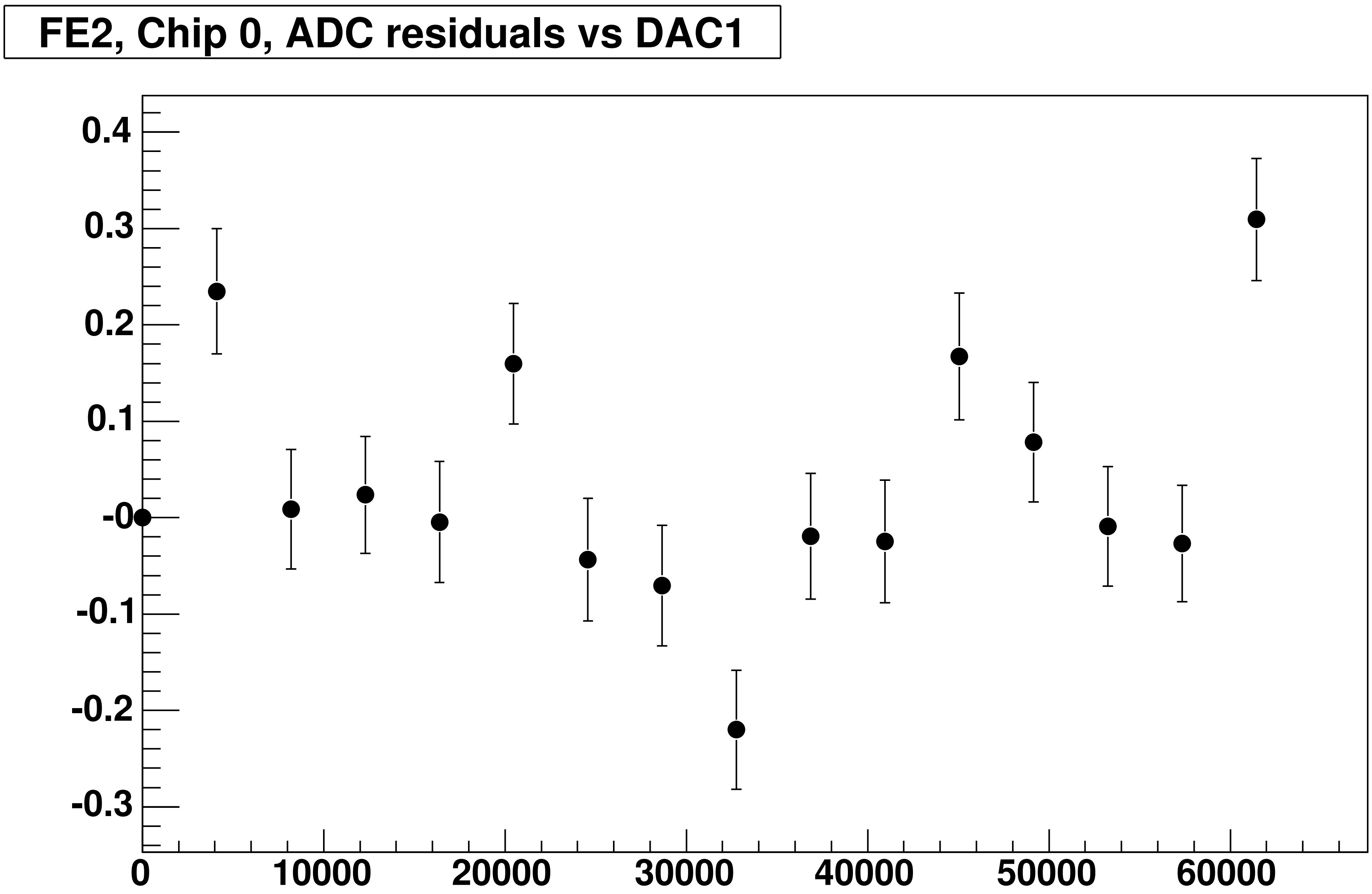


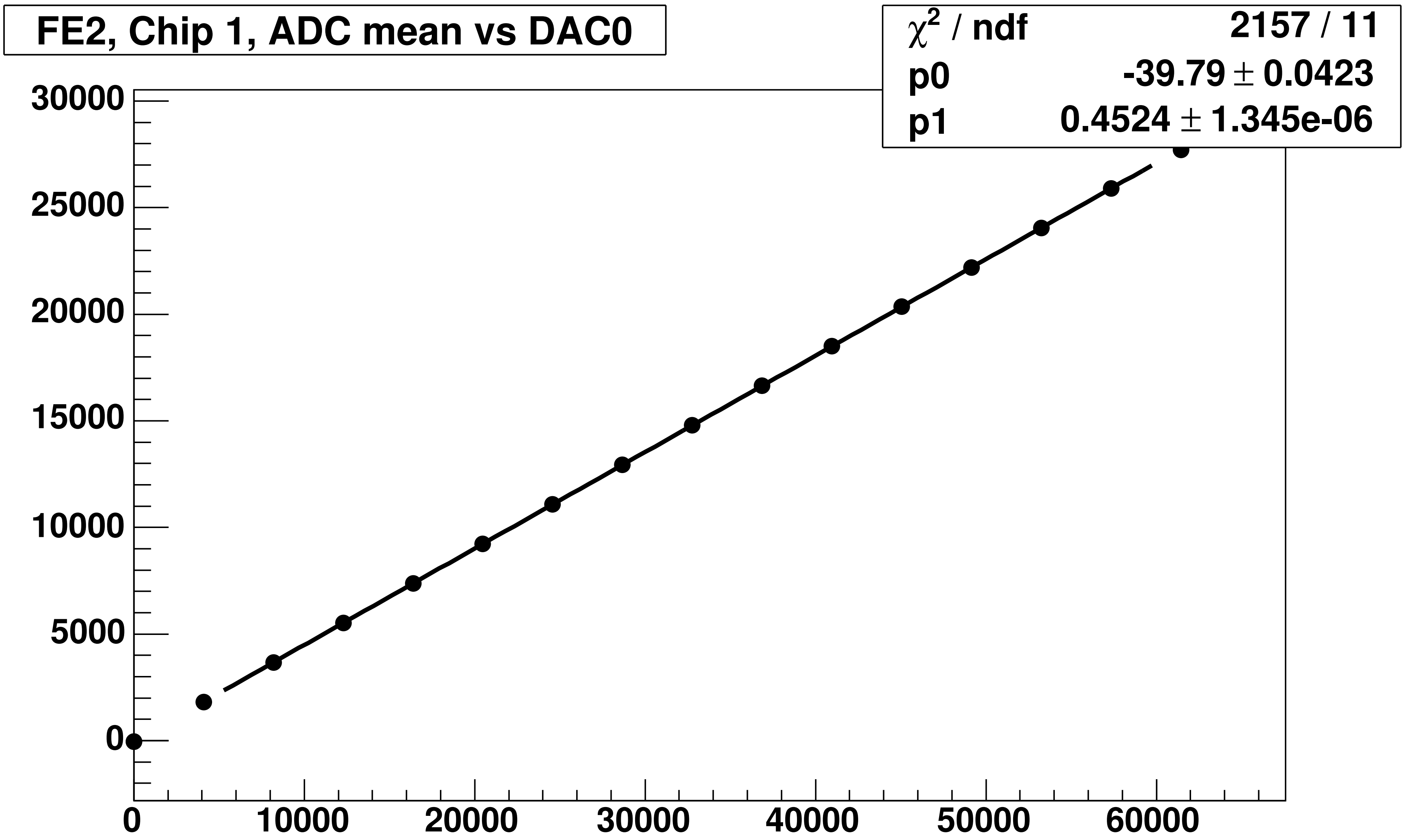
FE2, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE2, Chip 0, ADC mean vs DAC1
χ^2 / ndf 29.69 / 11
p0 -36.99 ± 0.04056
p1 3.937e-06 ± 1.12e-06
-36.4
-36.5
-36.6
-36.7
-36.8
-36.9
-37
-37.1
-37.2
0
10000
20000
30000
40000
50000
60000

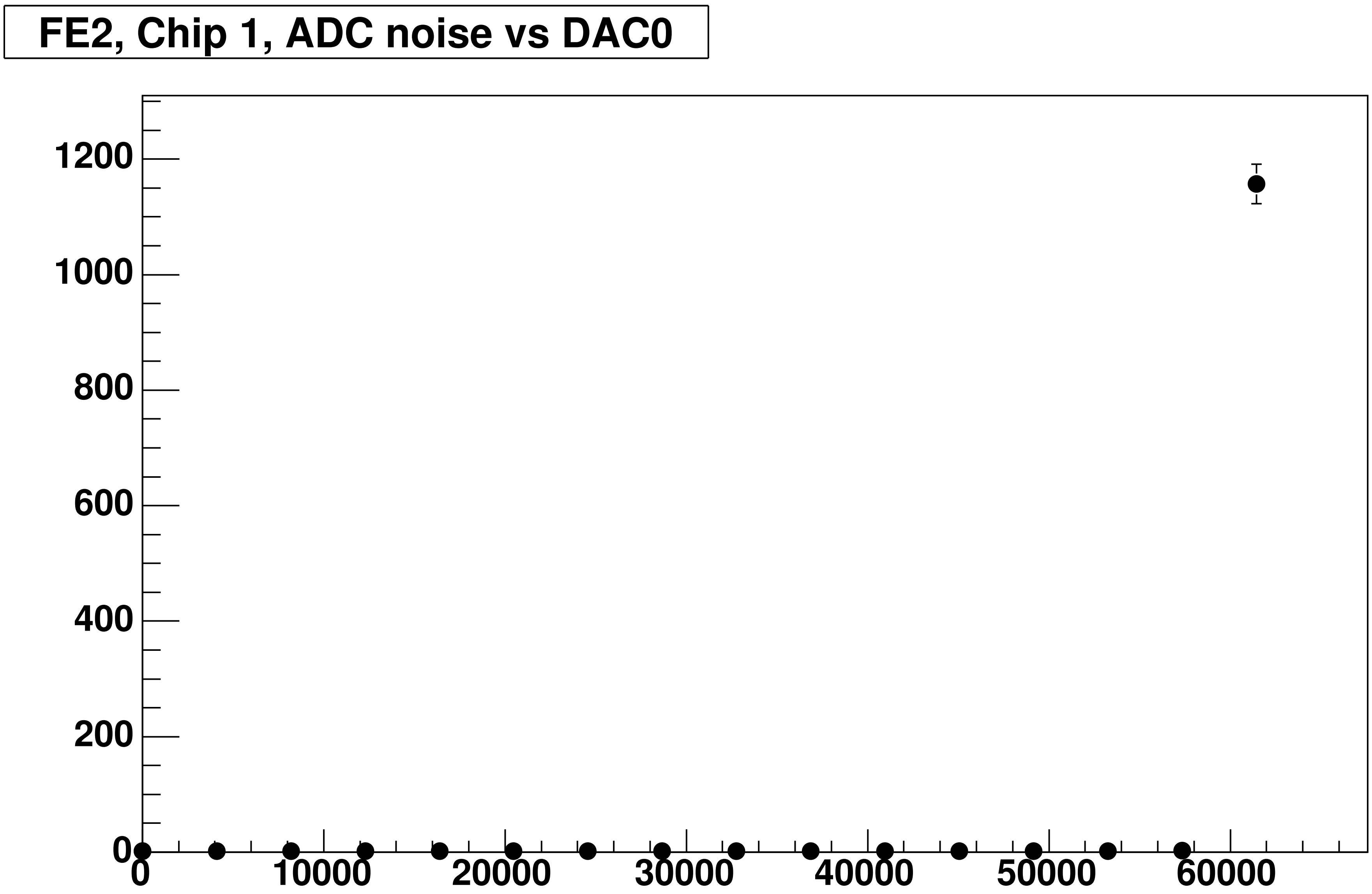


FE2, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

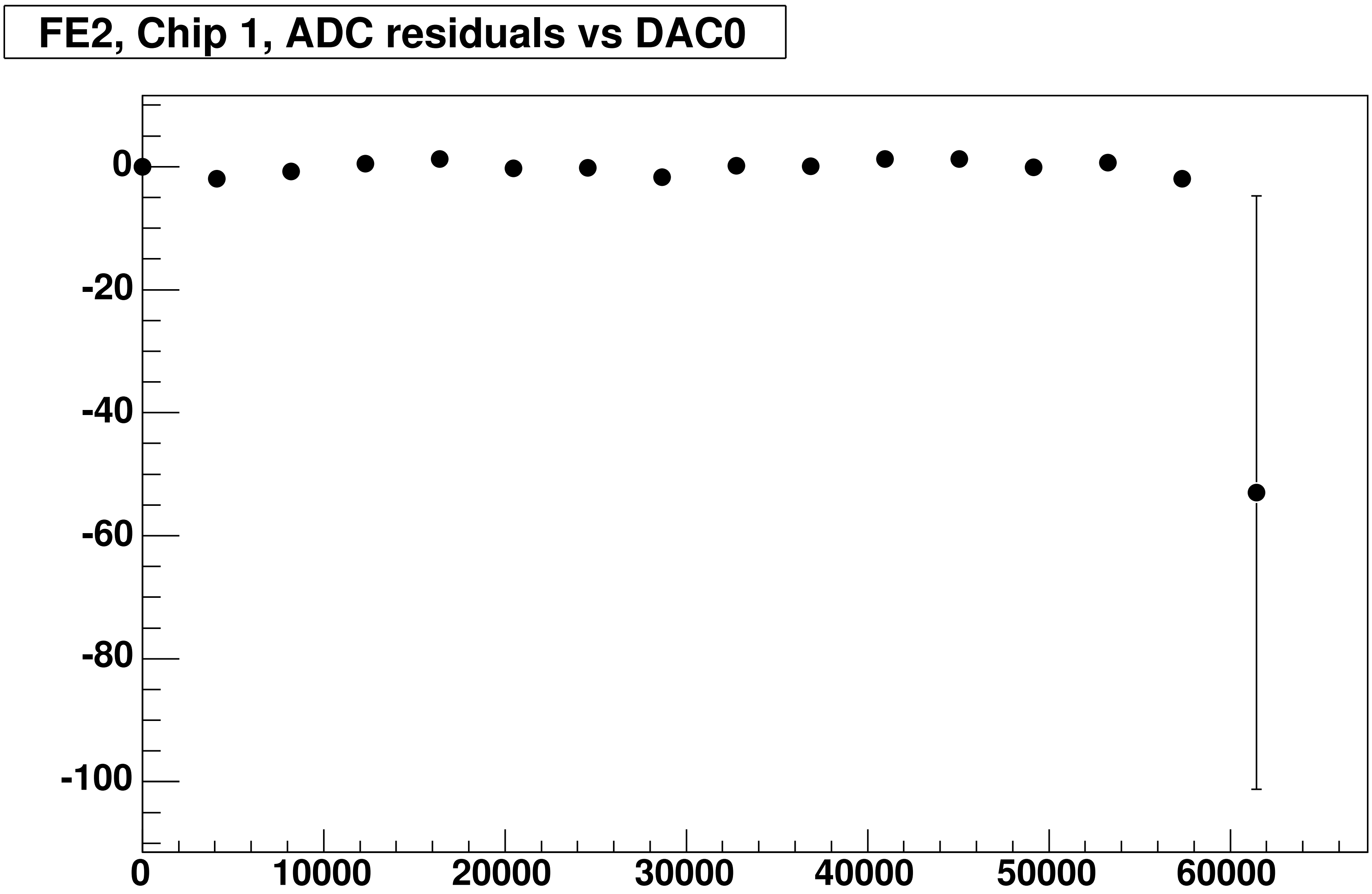

FE2, Chip 0, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

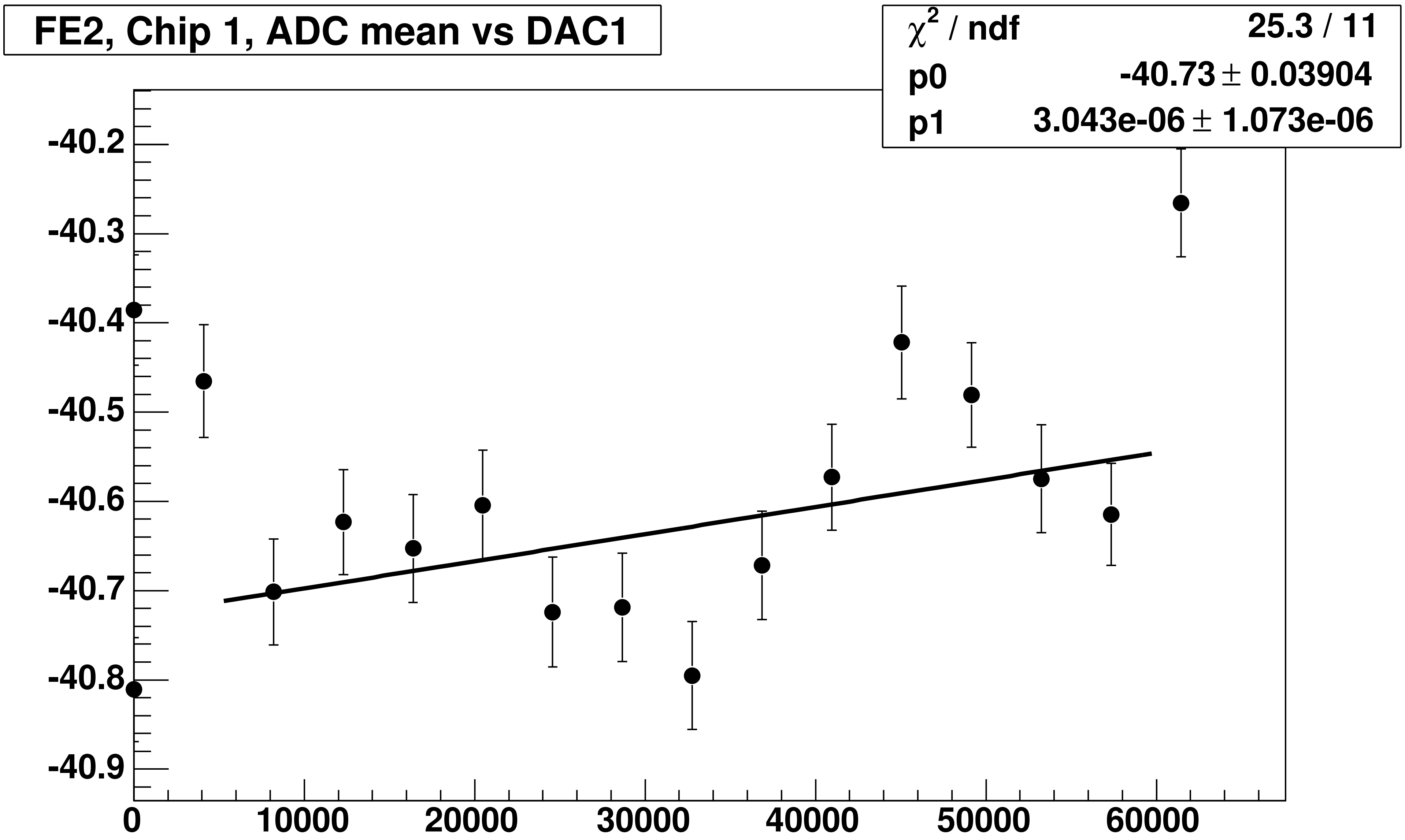


FE2, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2157 / 11
p0 -39.79 ± 0.0423
p1 0.4524 ± 1.345e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

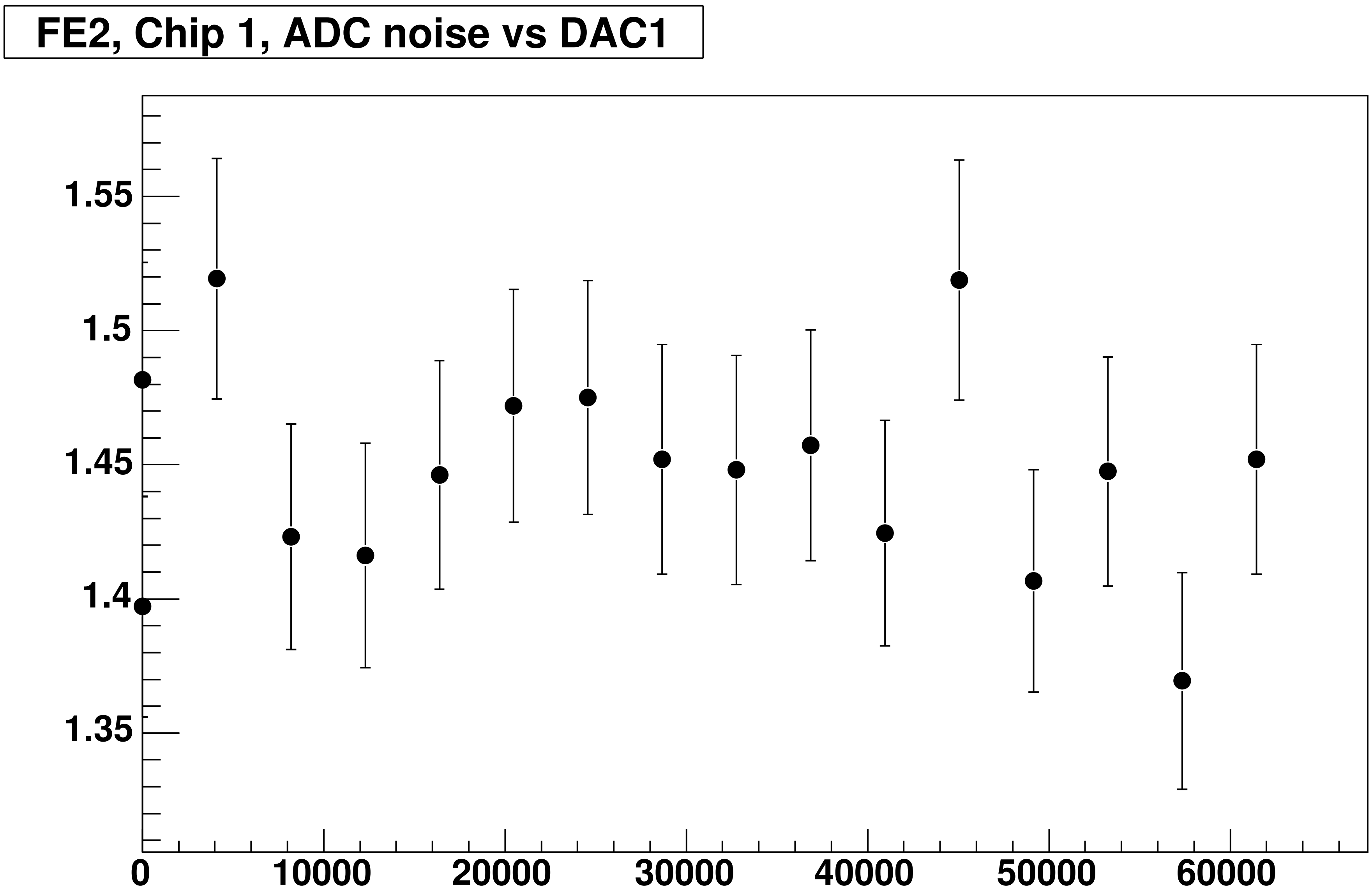


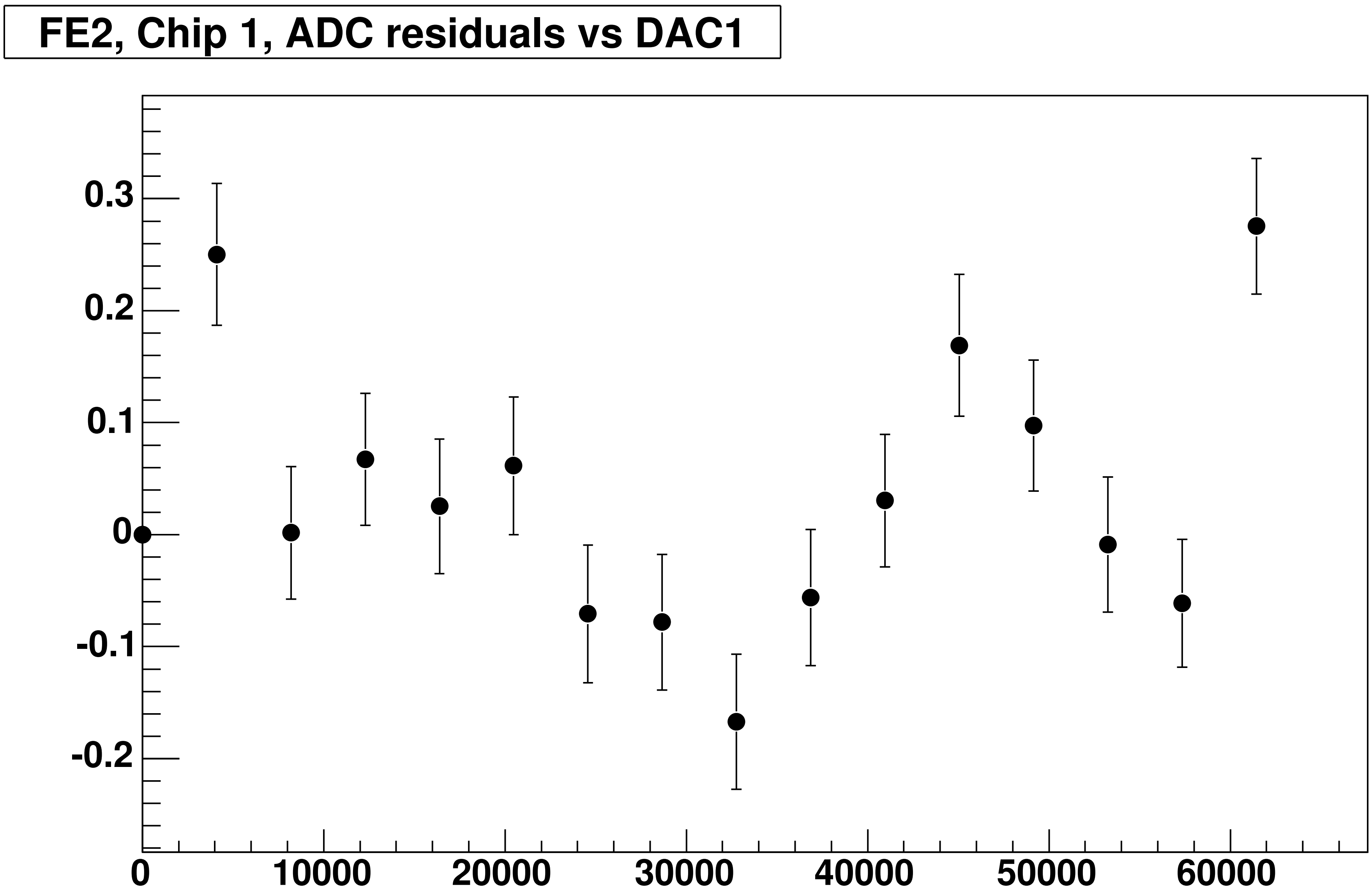
FE2, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

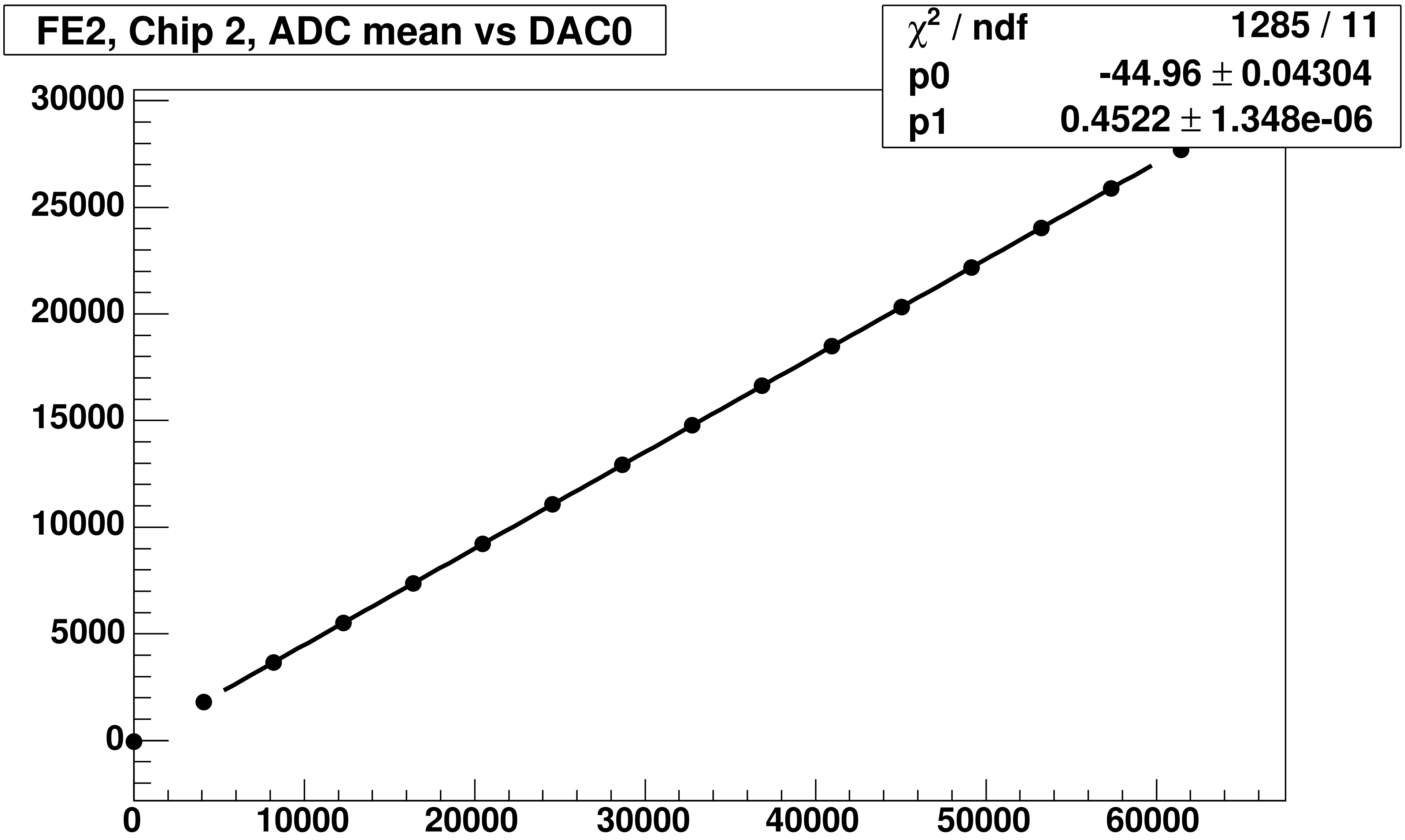

FE2, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

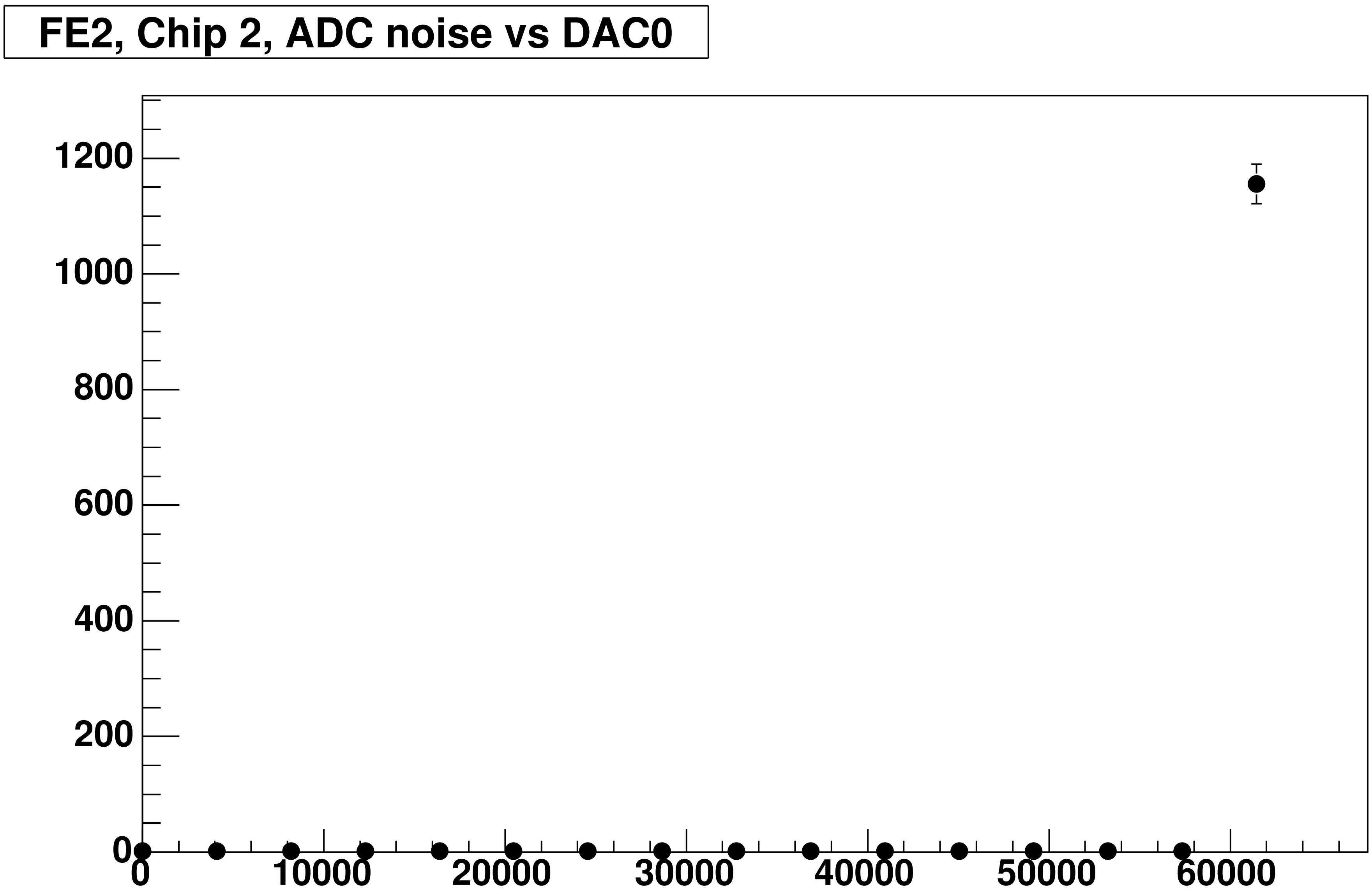


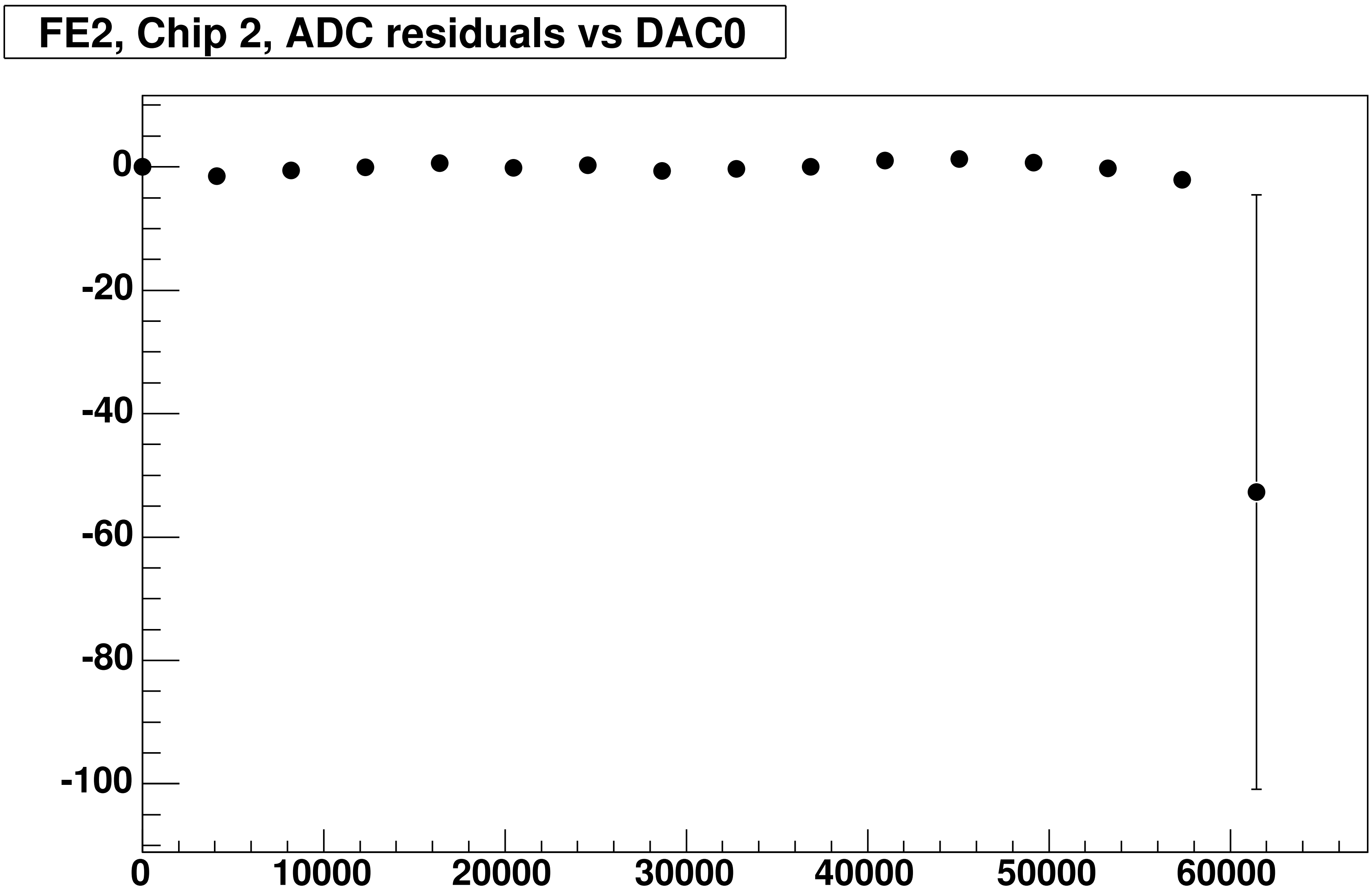
FE2, Chip 1, ADC mean vs DAC1
χ² / ndf 25.3 / 11
p0 -40.73 ± 0.03904
p1 3.043e-06 ± 1.073e-06
-40.2
-40.3
-40.4
-40.5
-40.6
-40.7
-40.8
-40.9
0
10000
20000
30000
40000
50000
60000


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

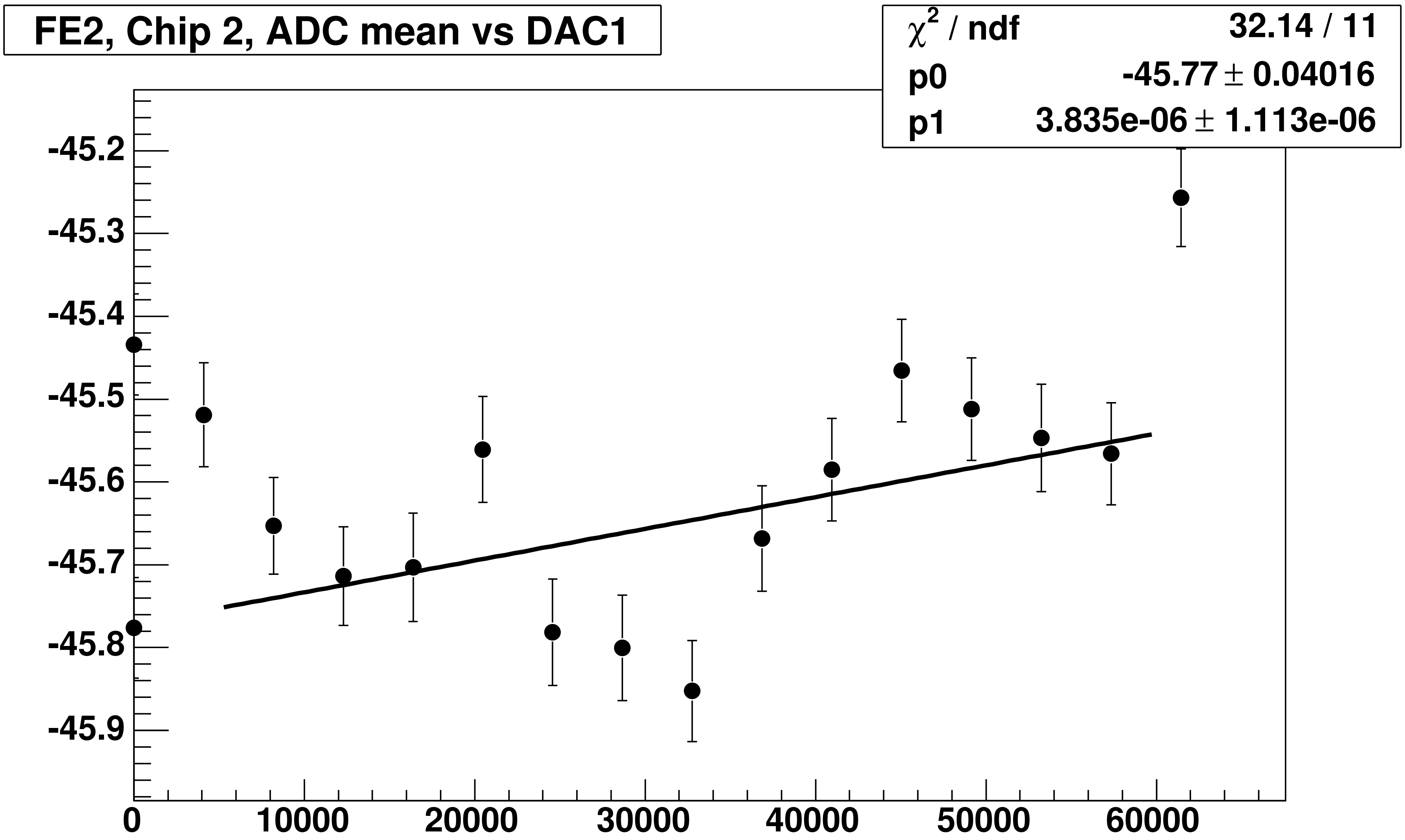

FE2, Chip 1, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE2, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1285 / 11
p0 -44.96 ± 0.04304
p1 0.4522 ± 1.348e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

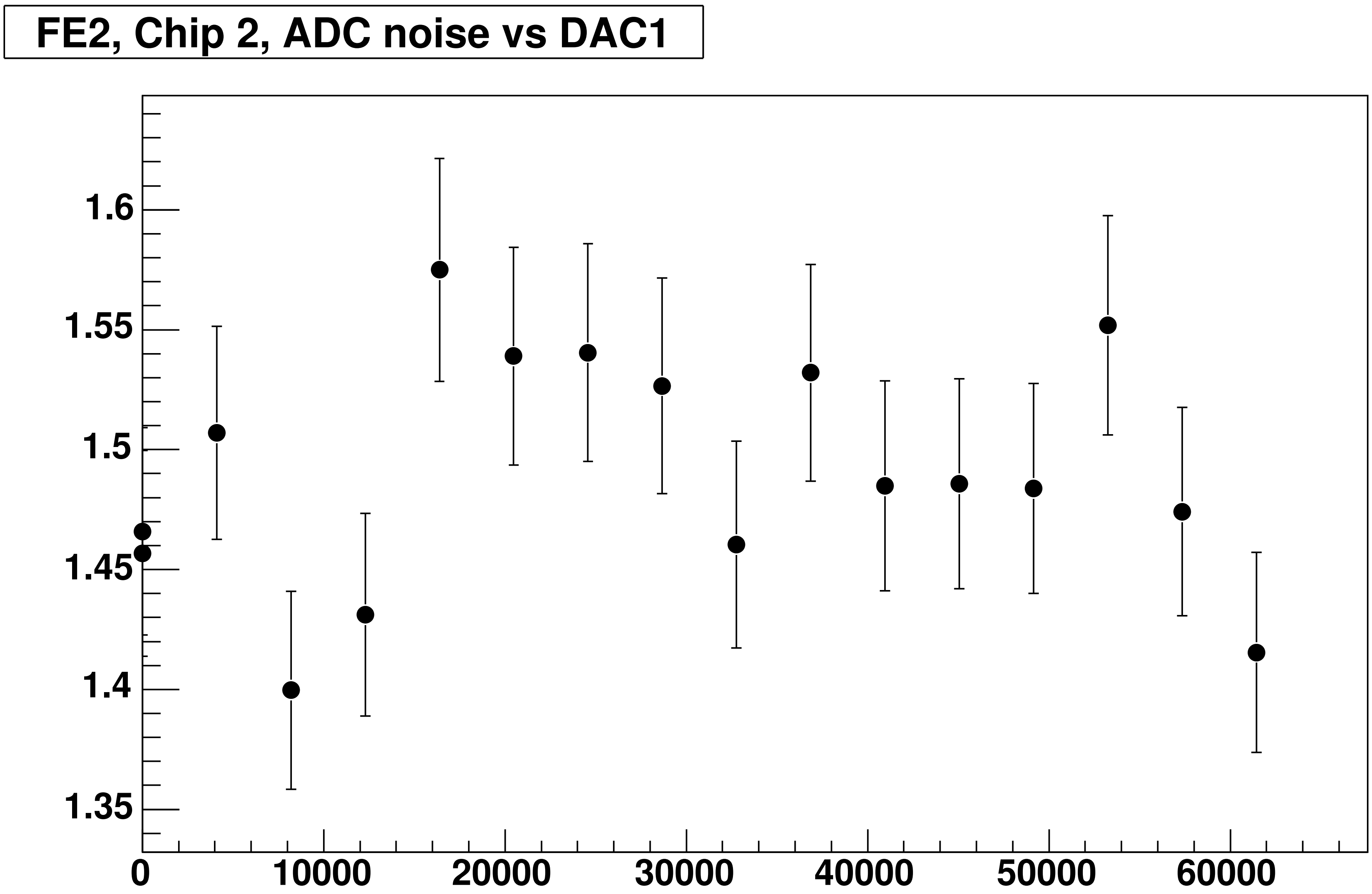

FE2, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



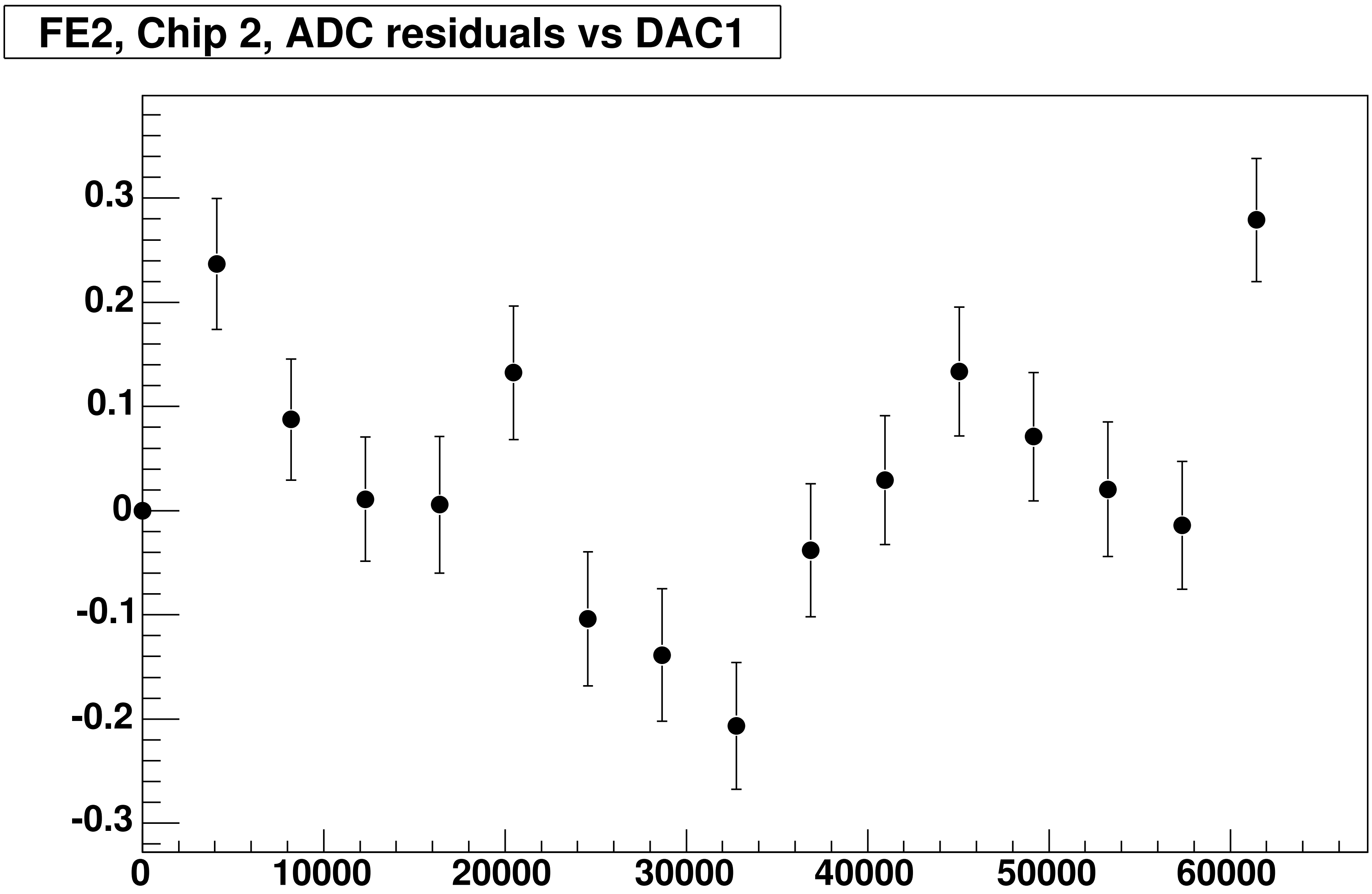
FE2, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



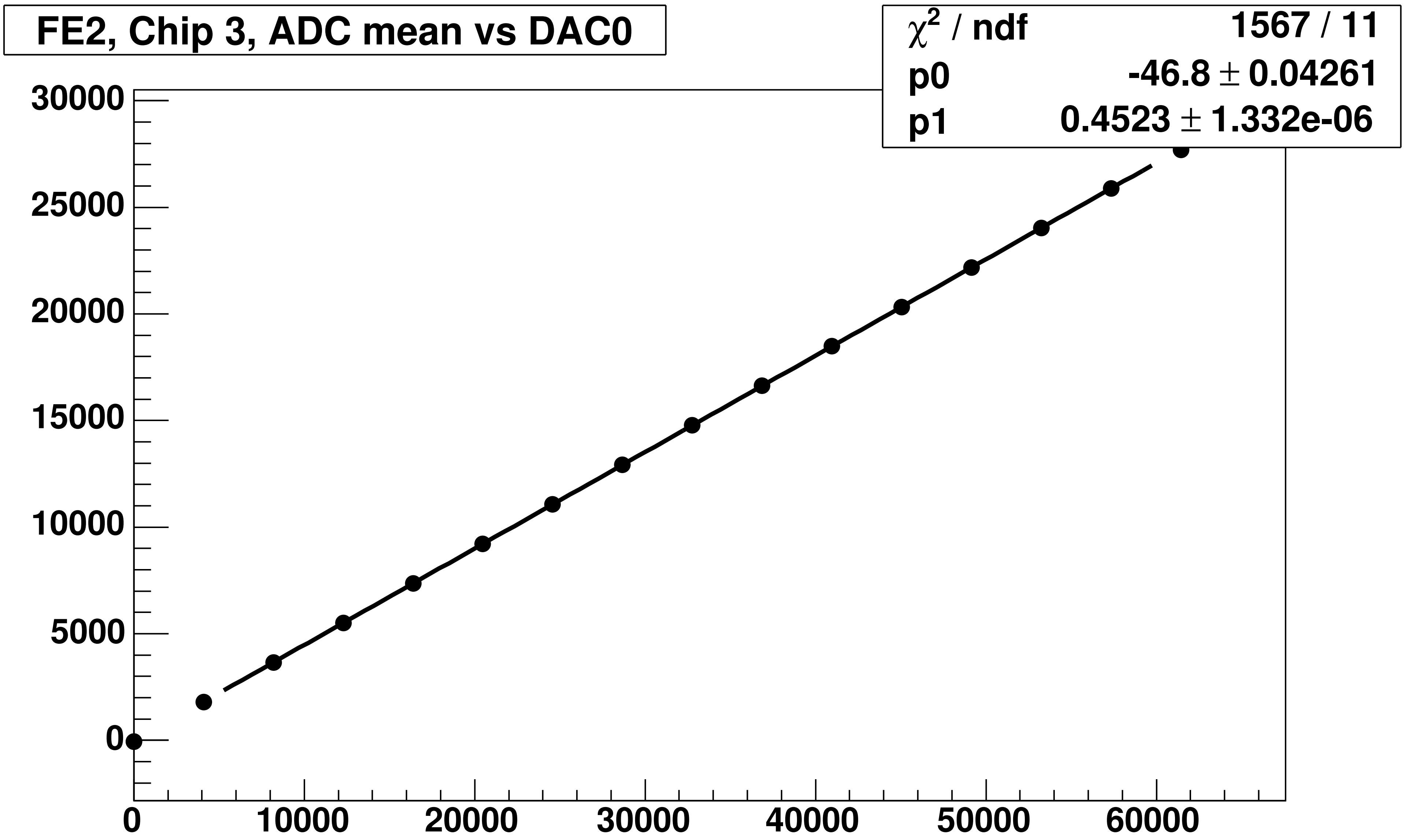
FE2, Chip 2, ADC mean vs DAC1
χ^2 / ndf 32.14 / 11
p0 -45.77 ± 0.04016
p1 3.835e-06 ± 1.113e-06
-45.2
-45.3
-45.4
-45.5
-45.6
-45.7
-45.8
-45.9
0
10000
20000
30000
40000
50000
60000



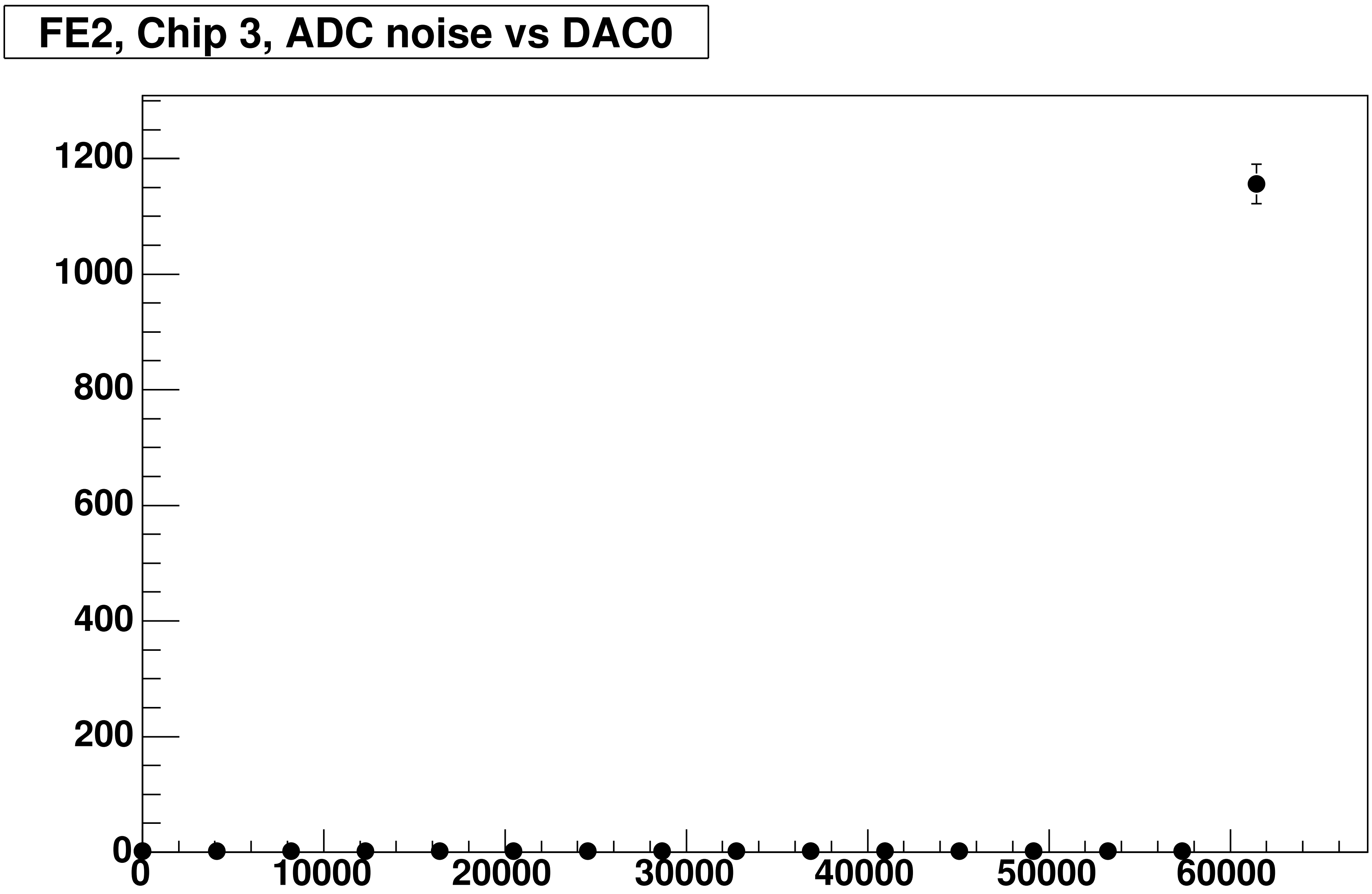
FE2, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

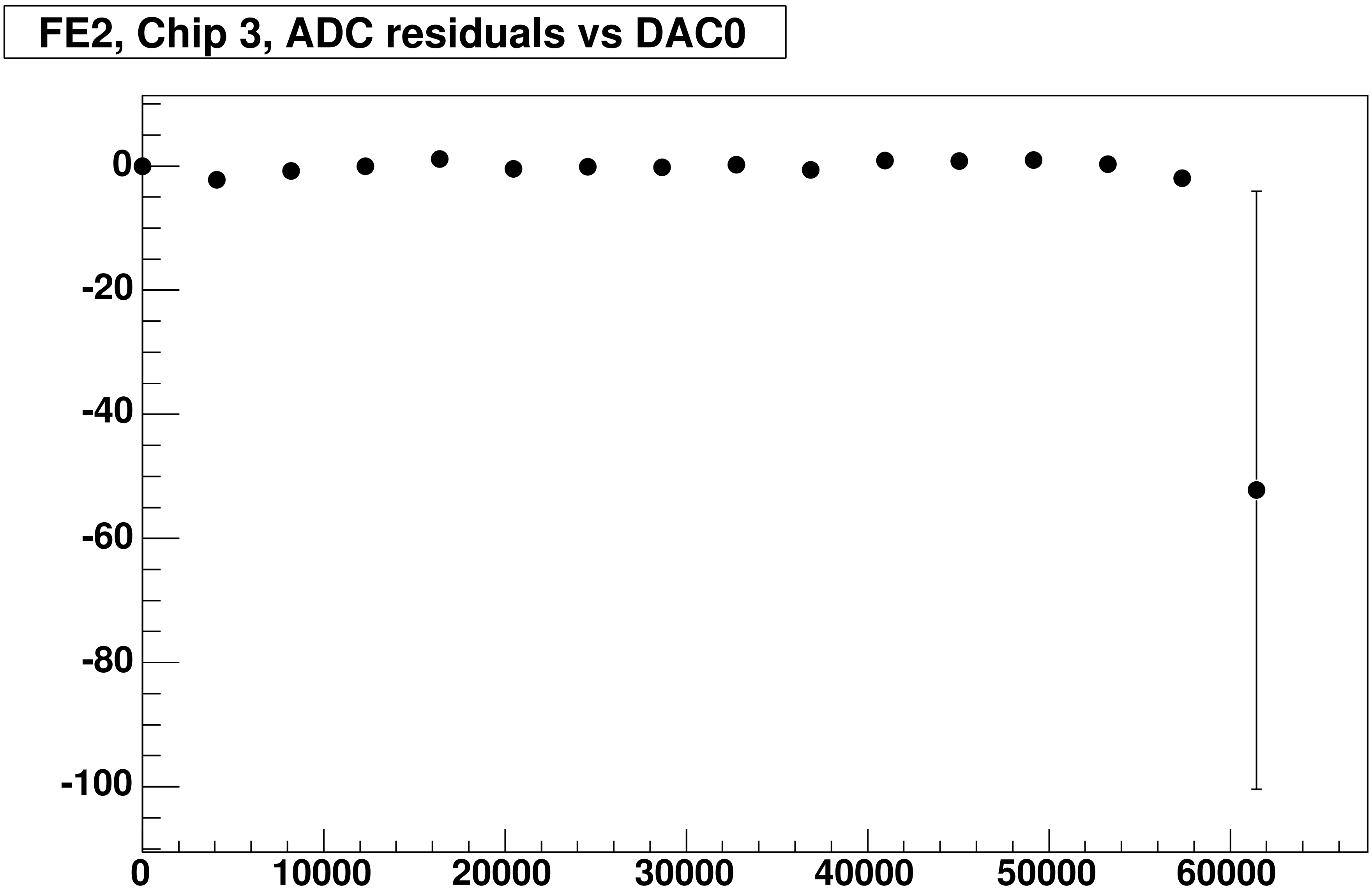


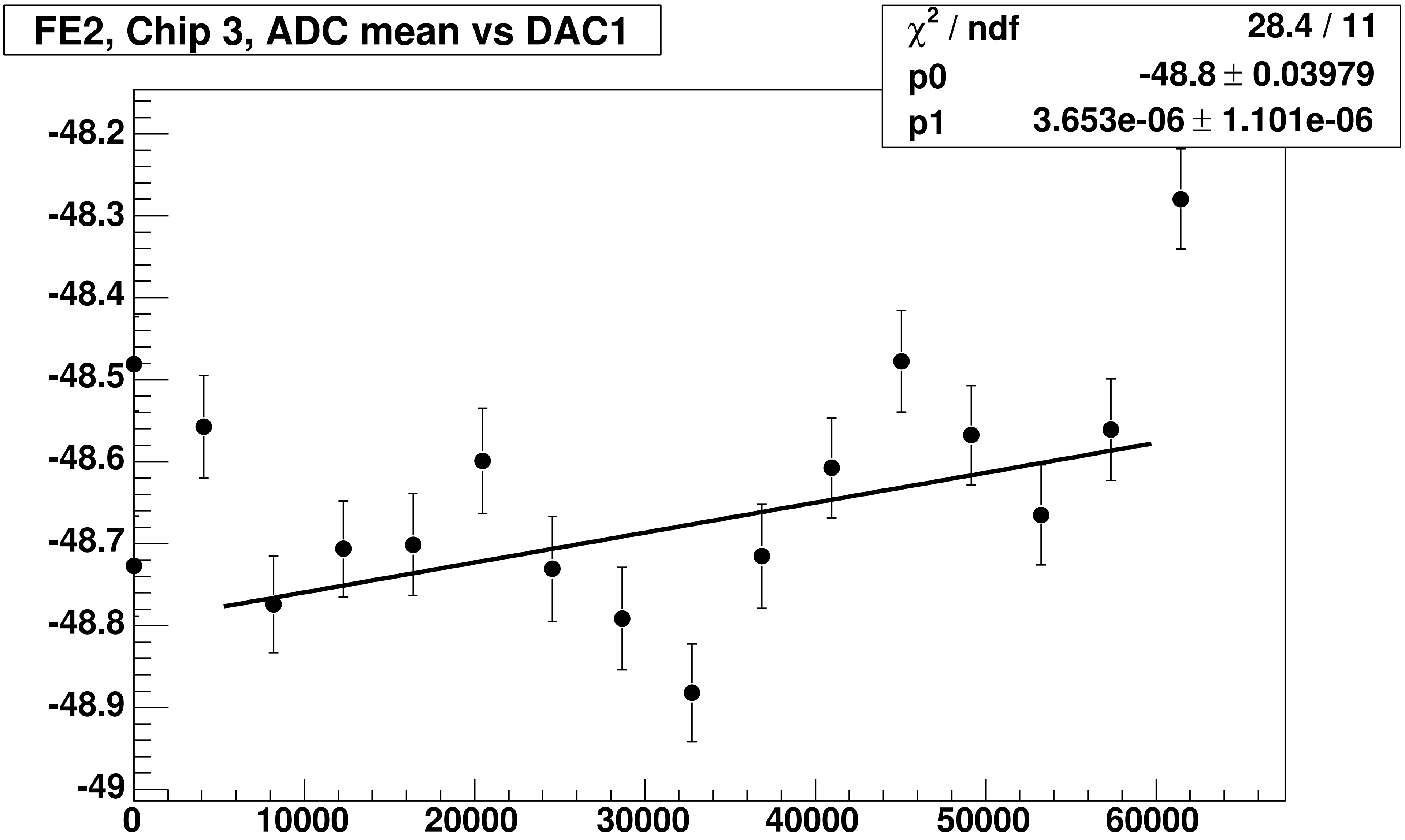
FE2, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

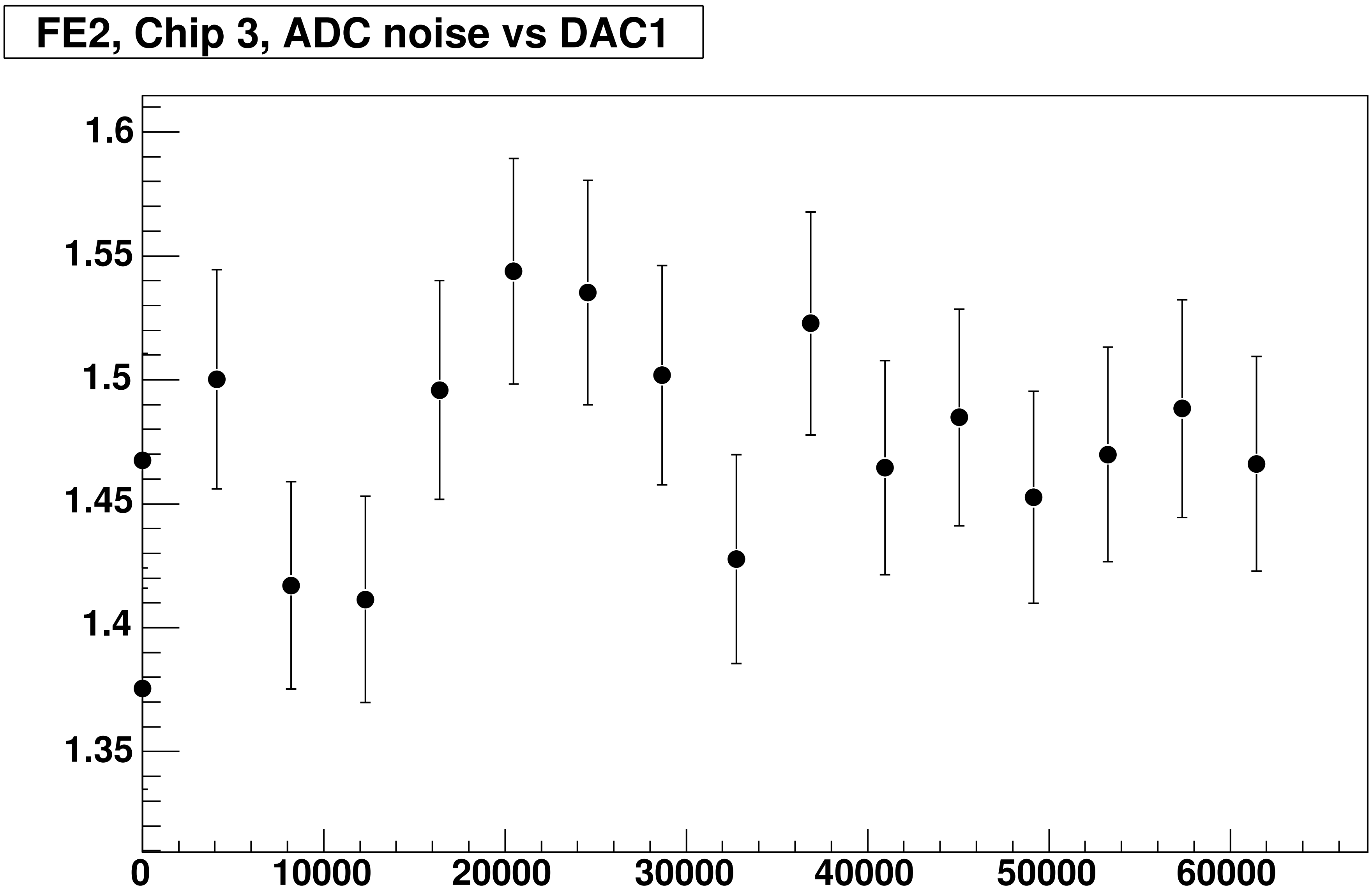


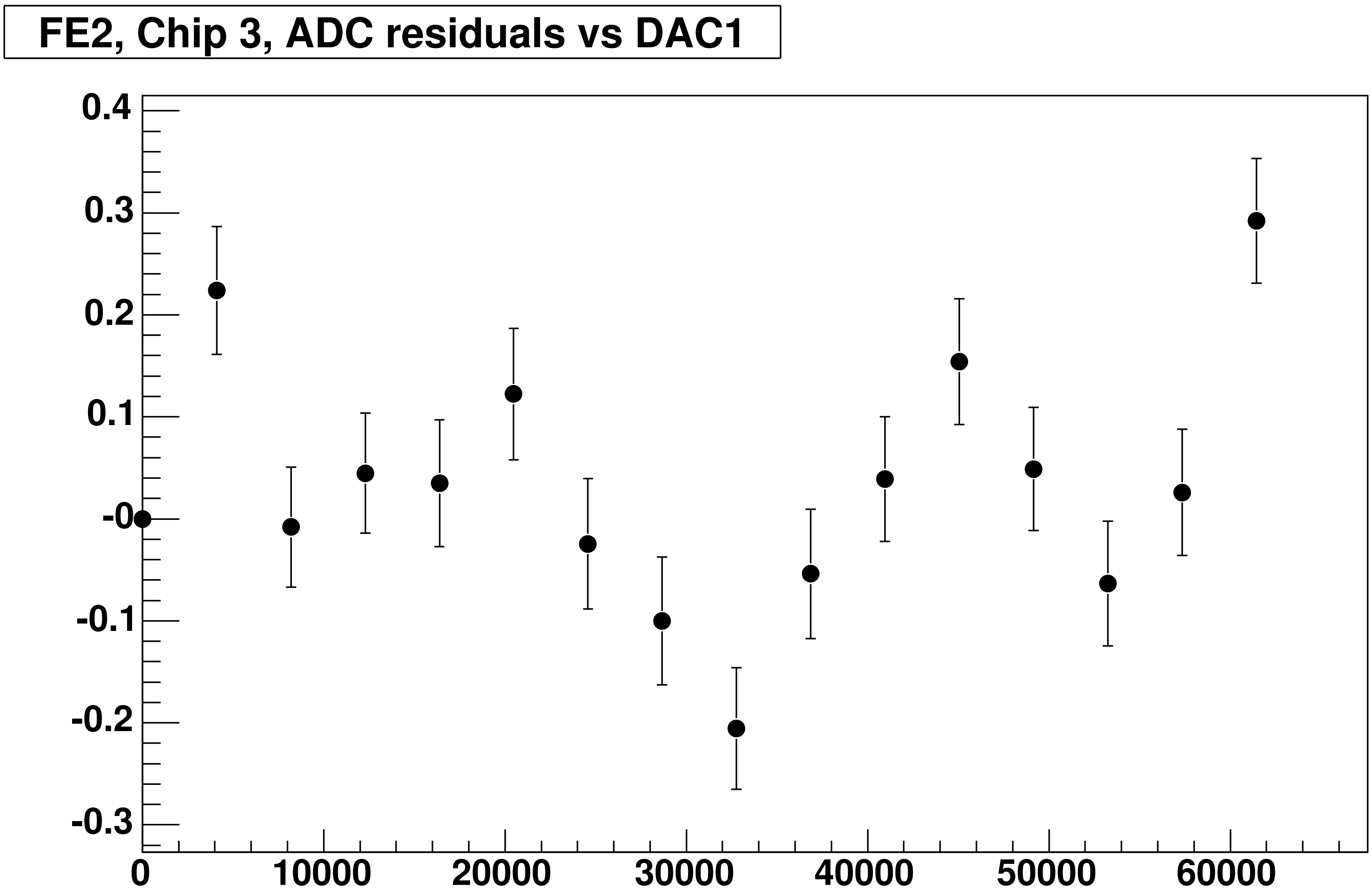
FE2, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1567 / 11
p0 -46.8 ± 0.04261
p1 0.4523 ± 1.332e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

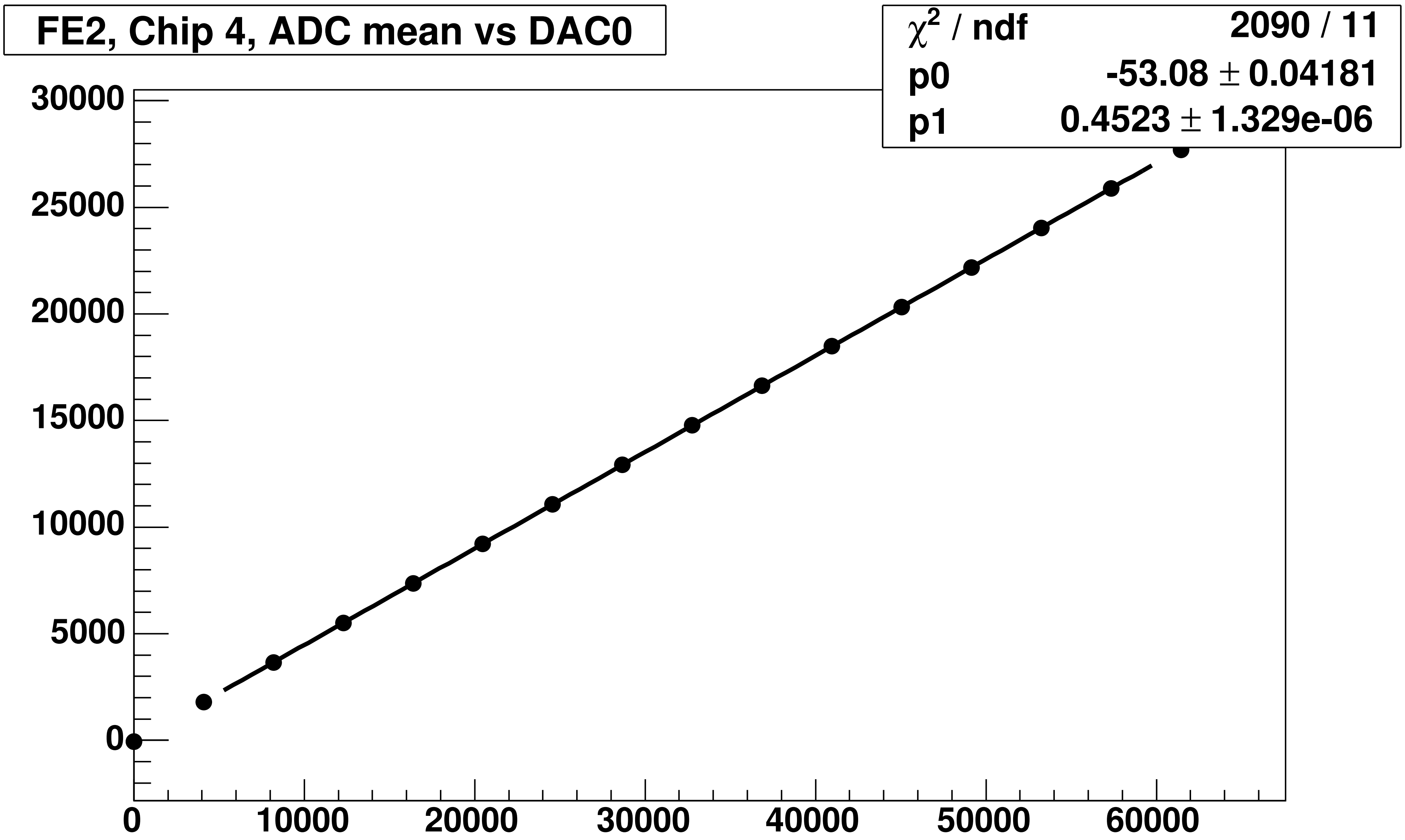

FE2, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE2, Chip 3, ADC mean vs DAC1
χ^2 / ndf 28.4 / 11
p0 -48.8 ± 0.03979
p1 3.653e-06 ± 1.101e-06
-48.2
-48.3
-48.4
-48.5
-48.6
-48.7
-48.8
-48.9
-49
0
10000
20000
30000
40000
50000
60000

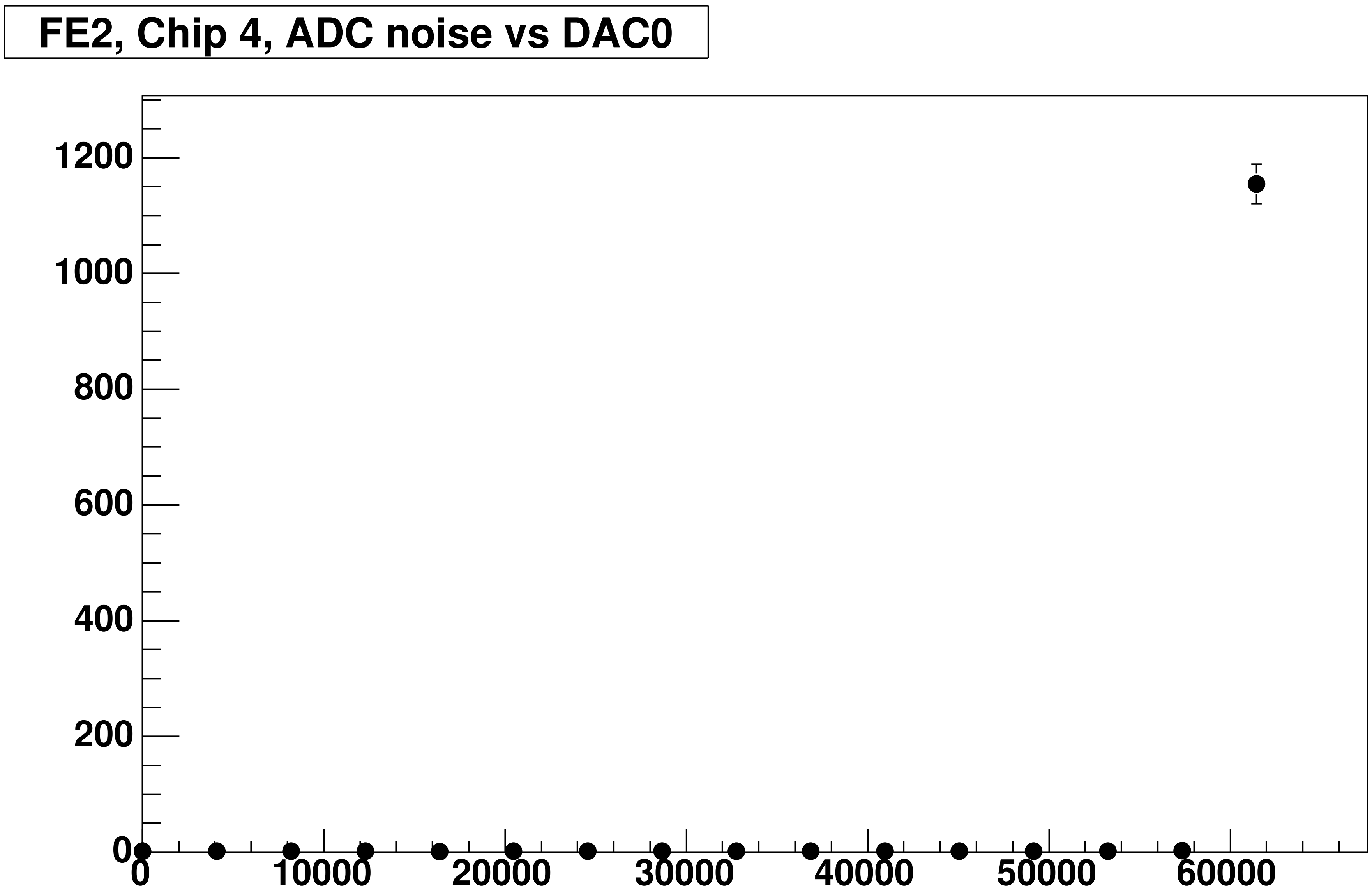

FE2, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

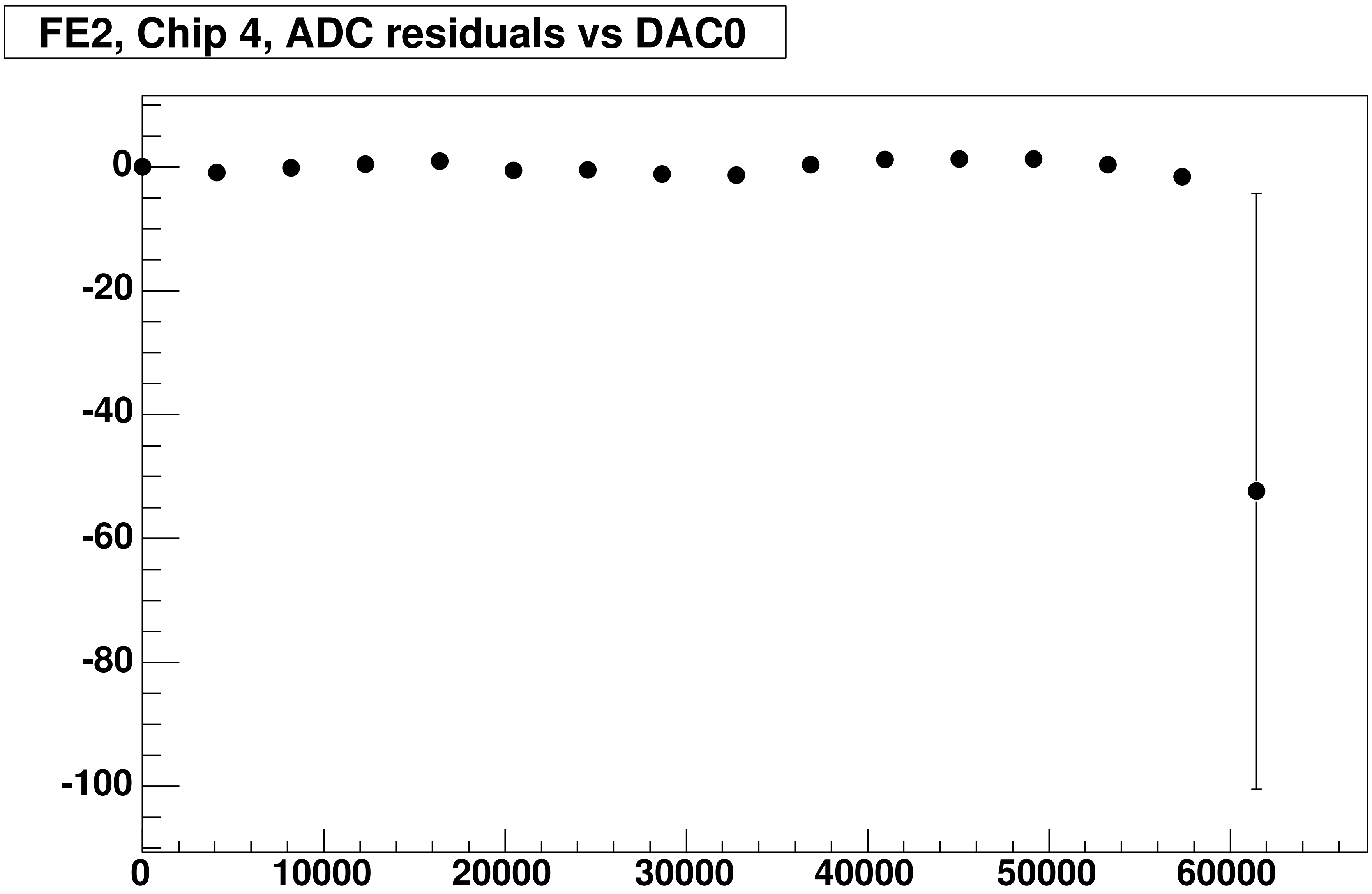


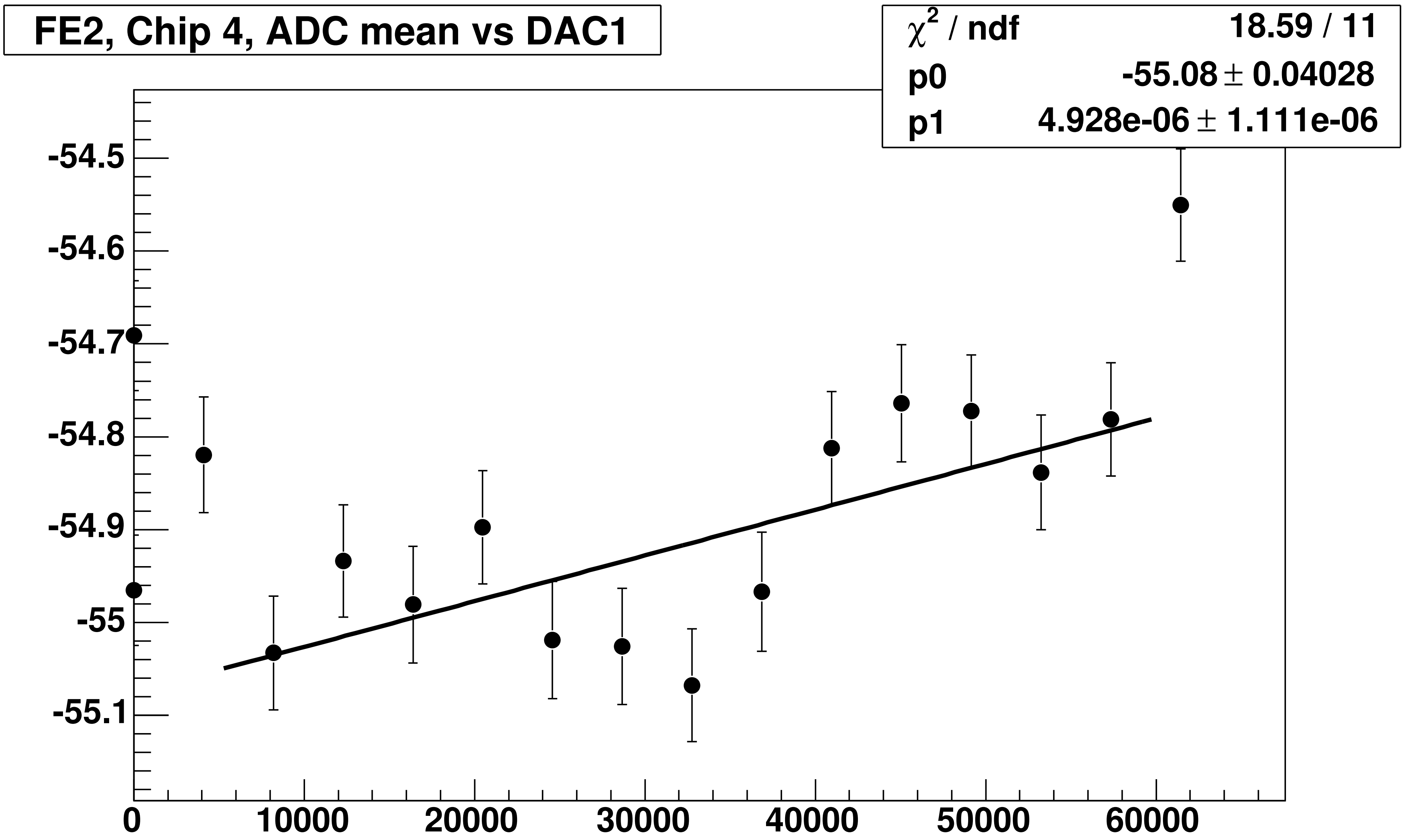
FE2, Chip 3, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

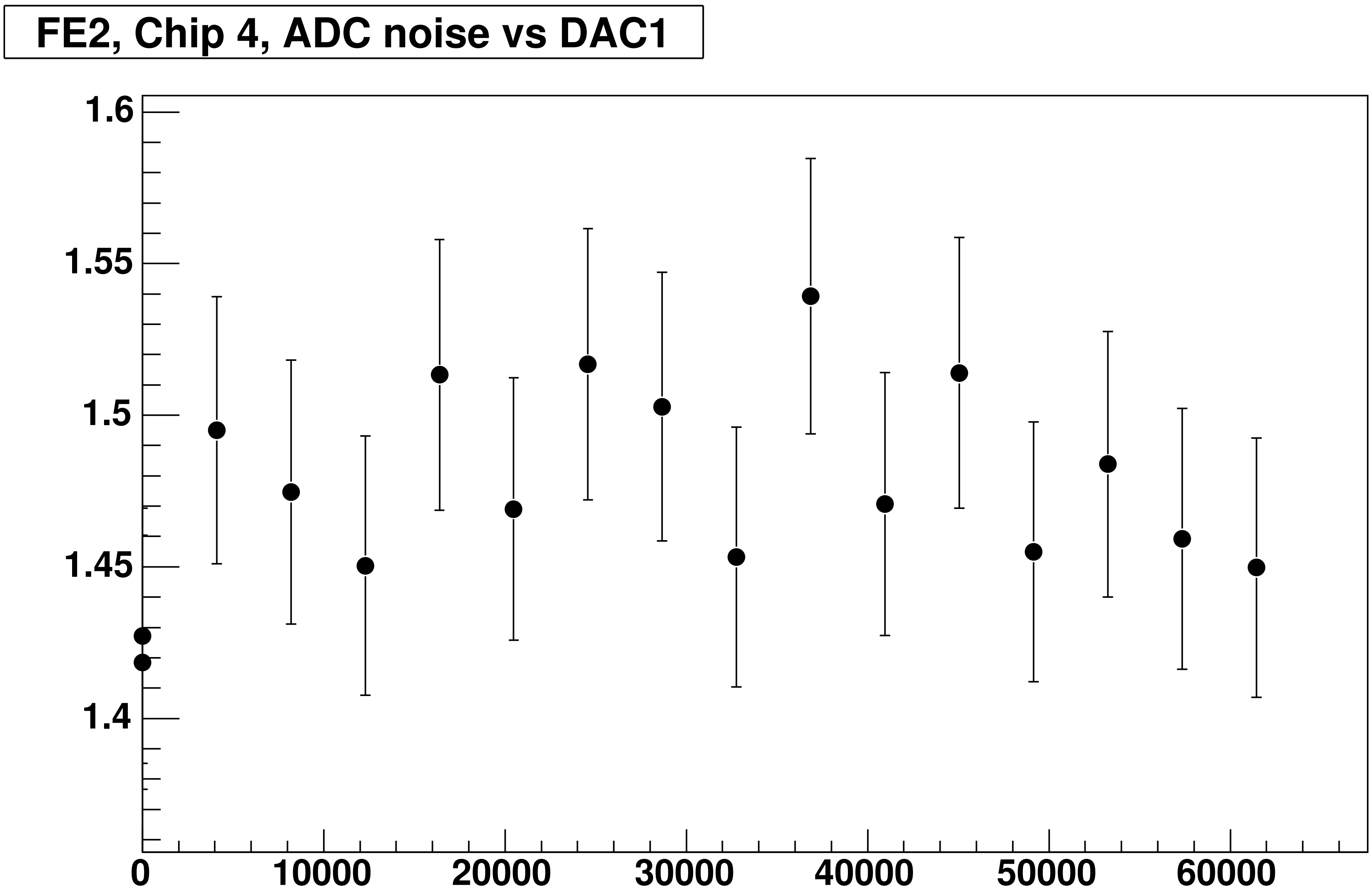


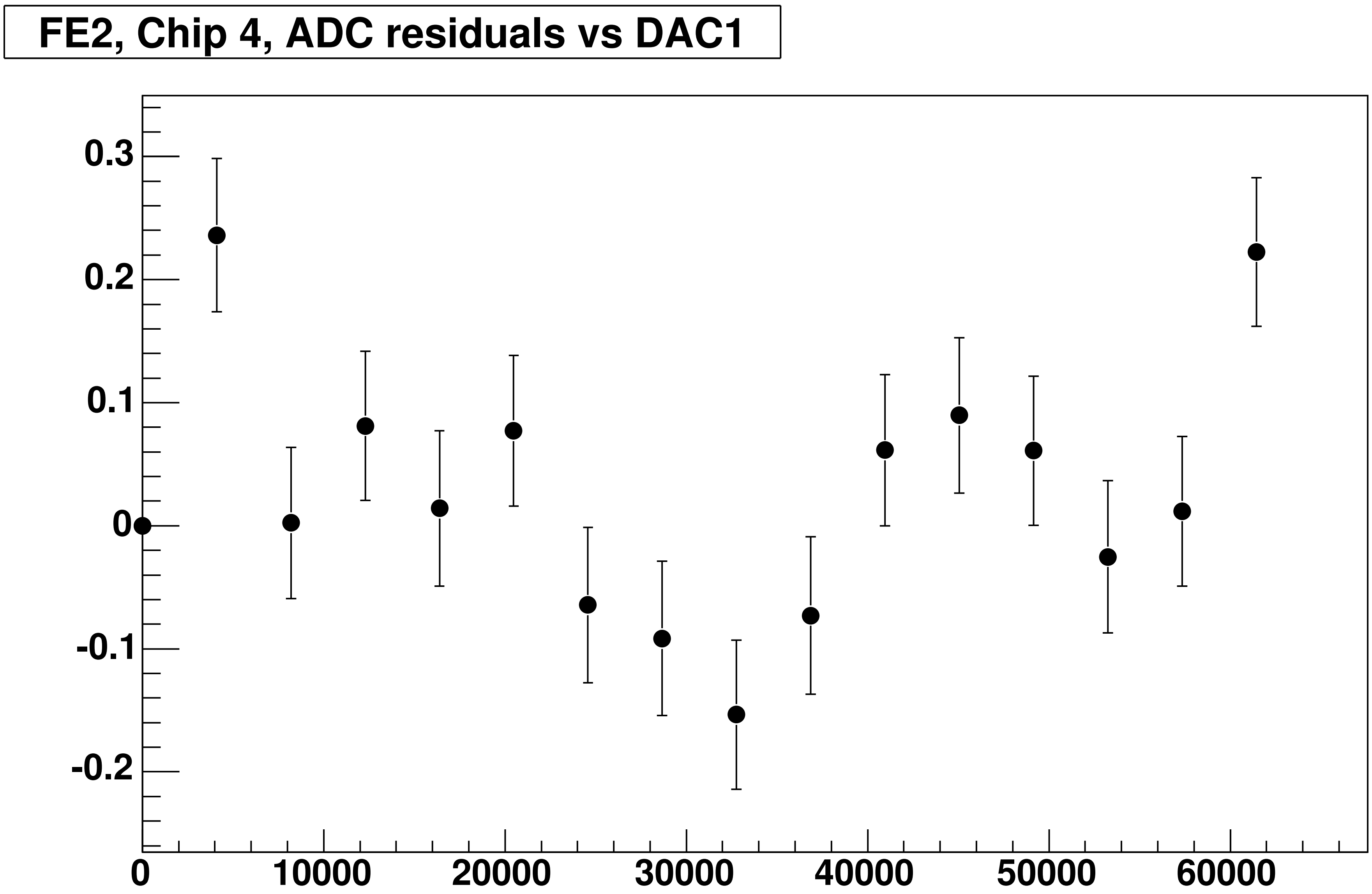
FE2, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2090 / 11
p0 -53.08 ± 0.04181
p1 0.4523 ± 1.329e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

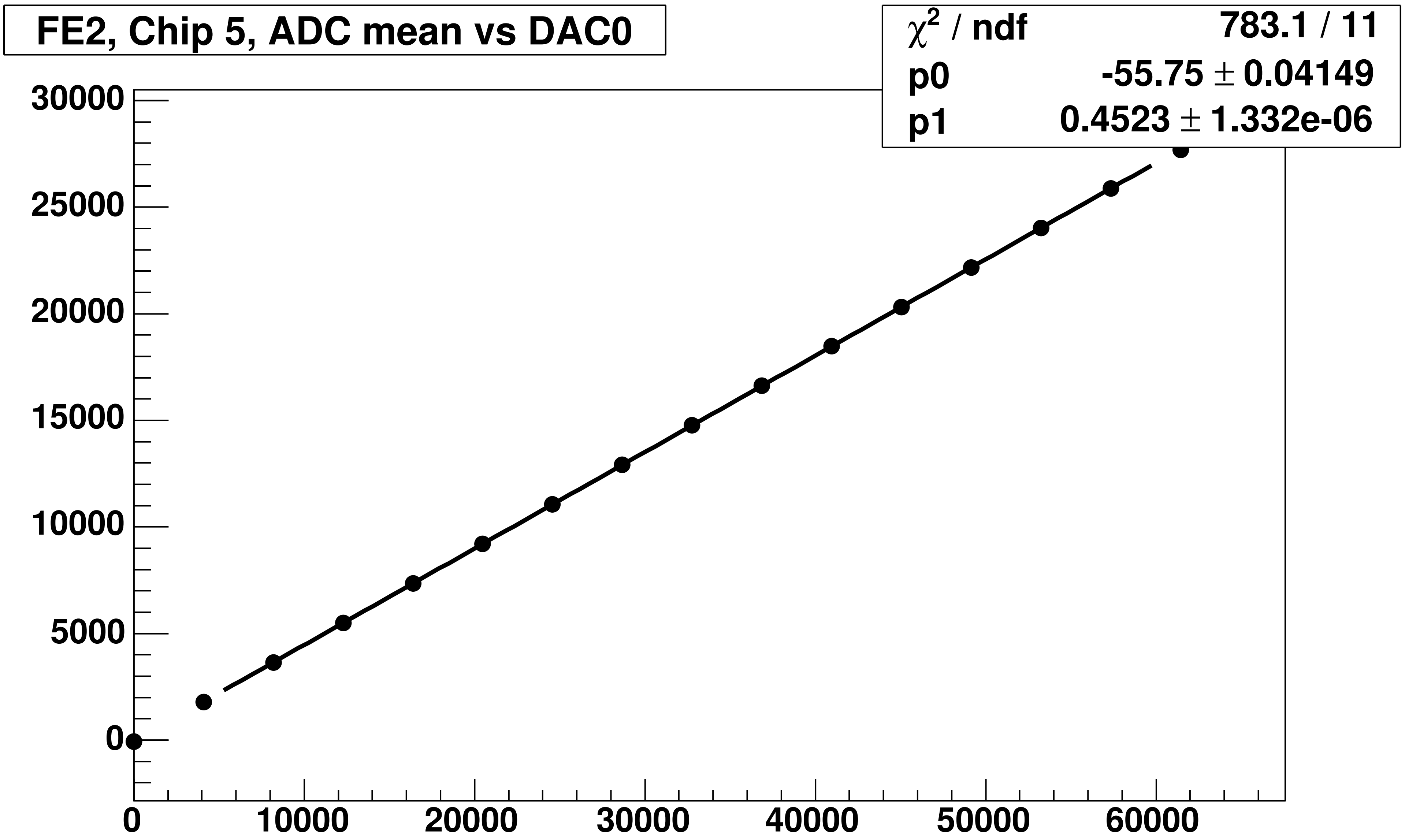

FE2, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

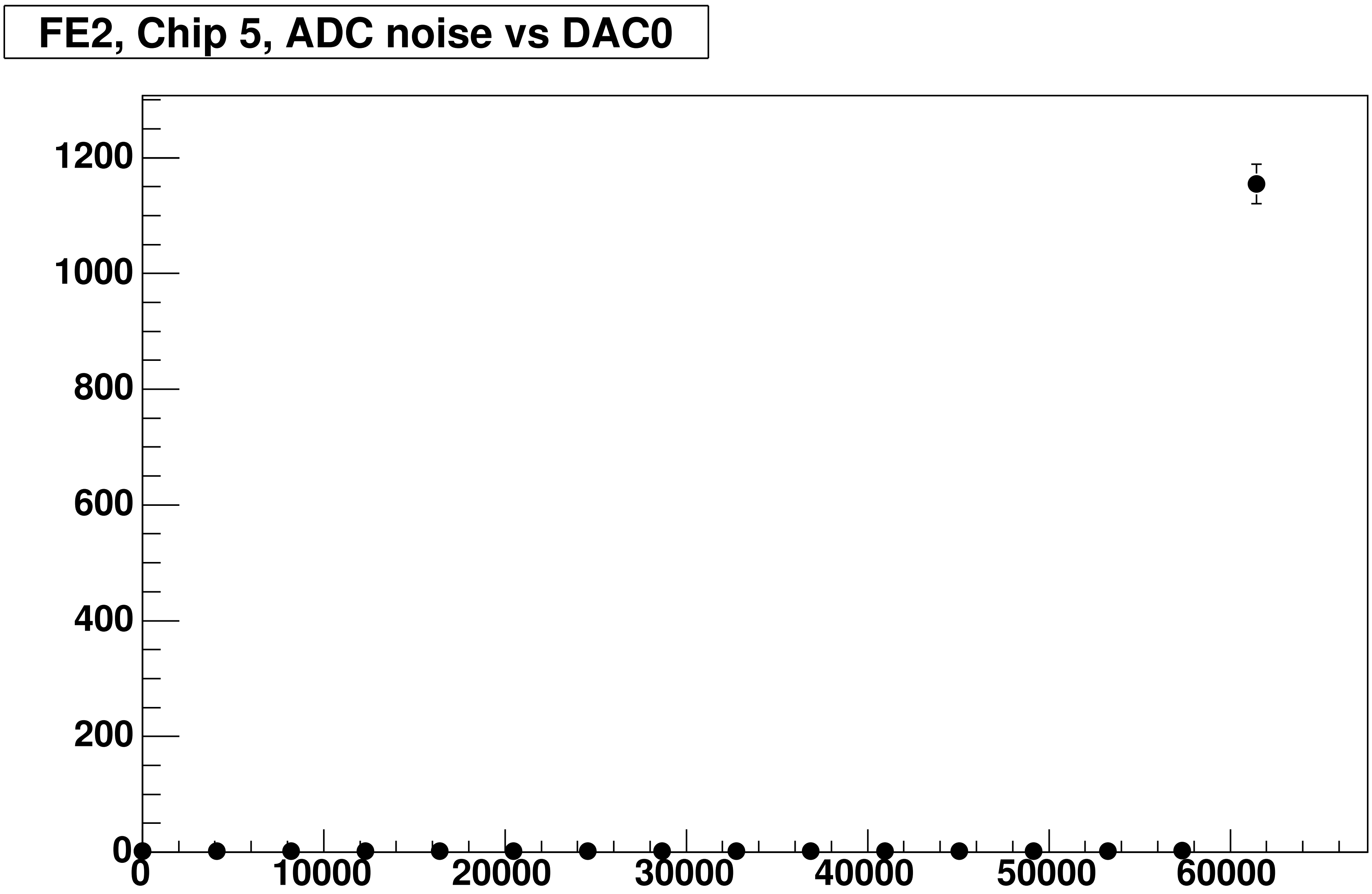

FE2, Chip 4, ADC mean vs DAC1
χ2 / ndf 18.59 / 11
p0 -55.08 ± 0.04028
p1 4.928e-06 ± 1.111e-06
-54.5
-54.6
-54.7
-54.8
-54.9
-55
-55.1
0
10000
20000
30000
40000
50000
60000

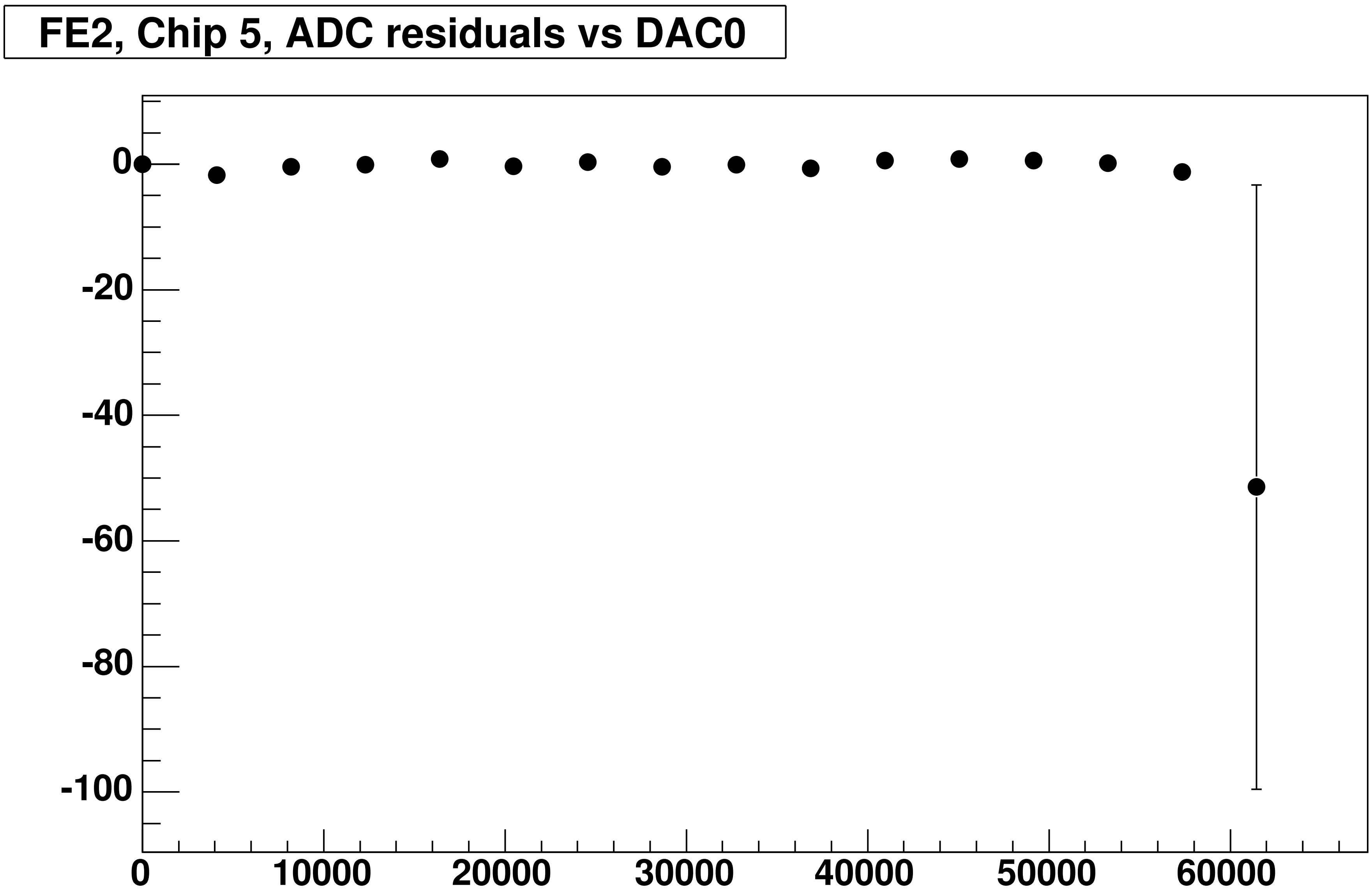

FE2, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


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

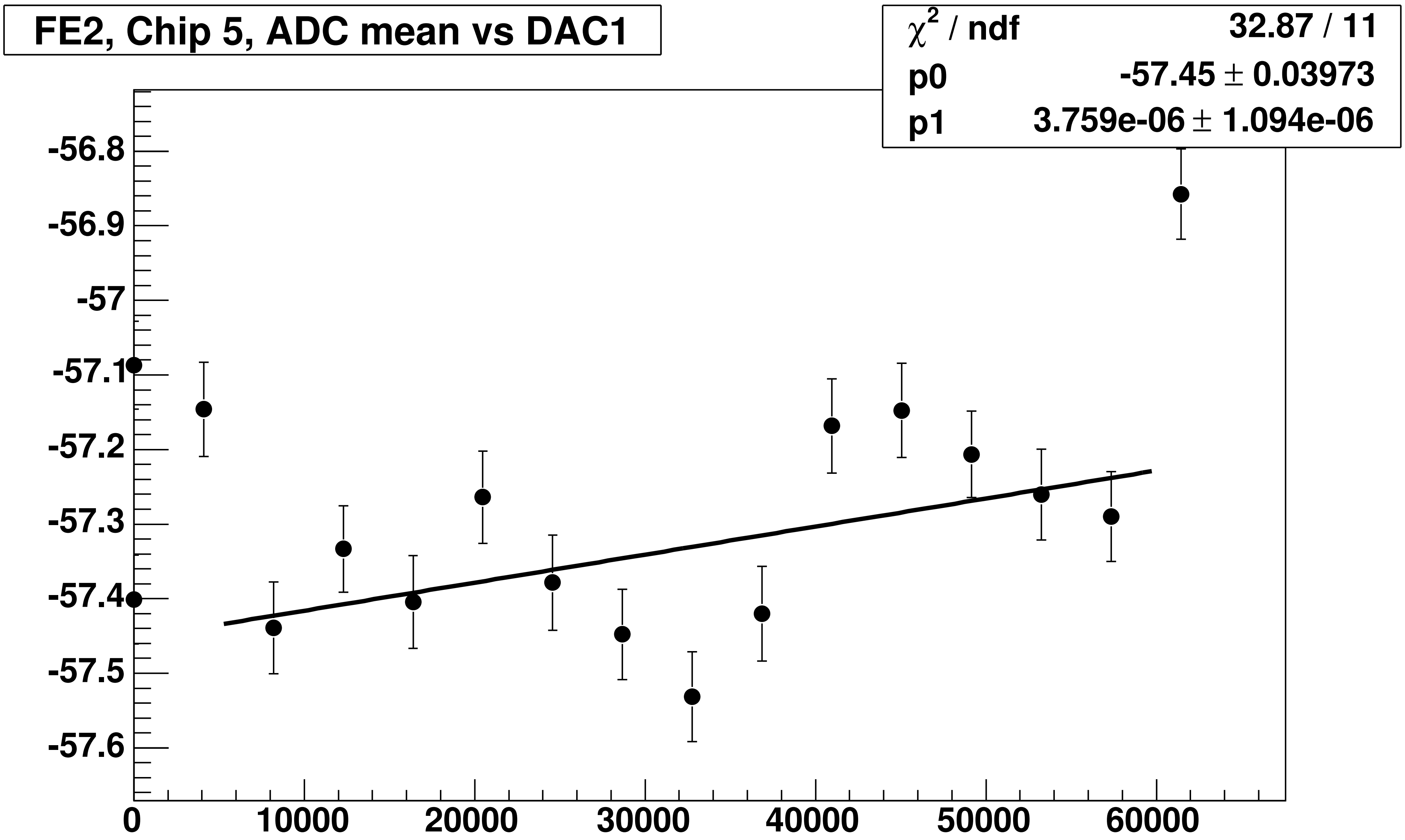


FE2, Chip 5, ADC mean vs DAC0
χ2 / ndf 783.1 / 11
p0 -55.75 ± 0.04149
p1 0.4523 ± 1.332e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

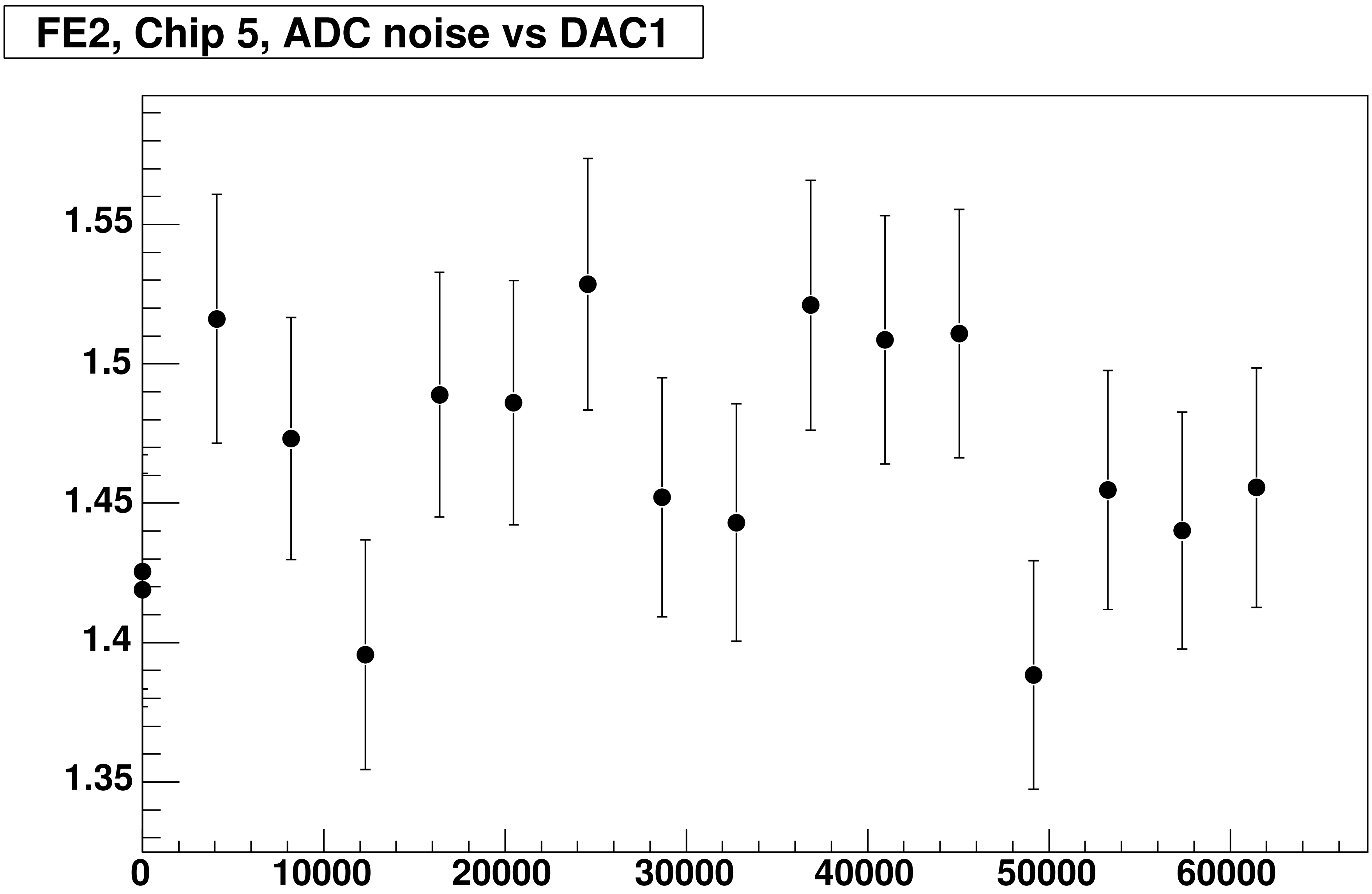

FE2, Chip 5, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000



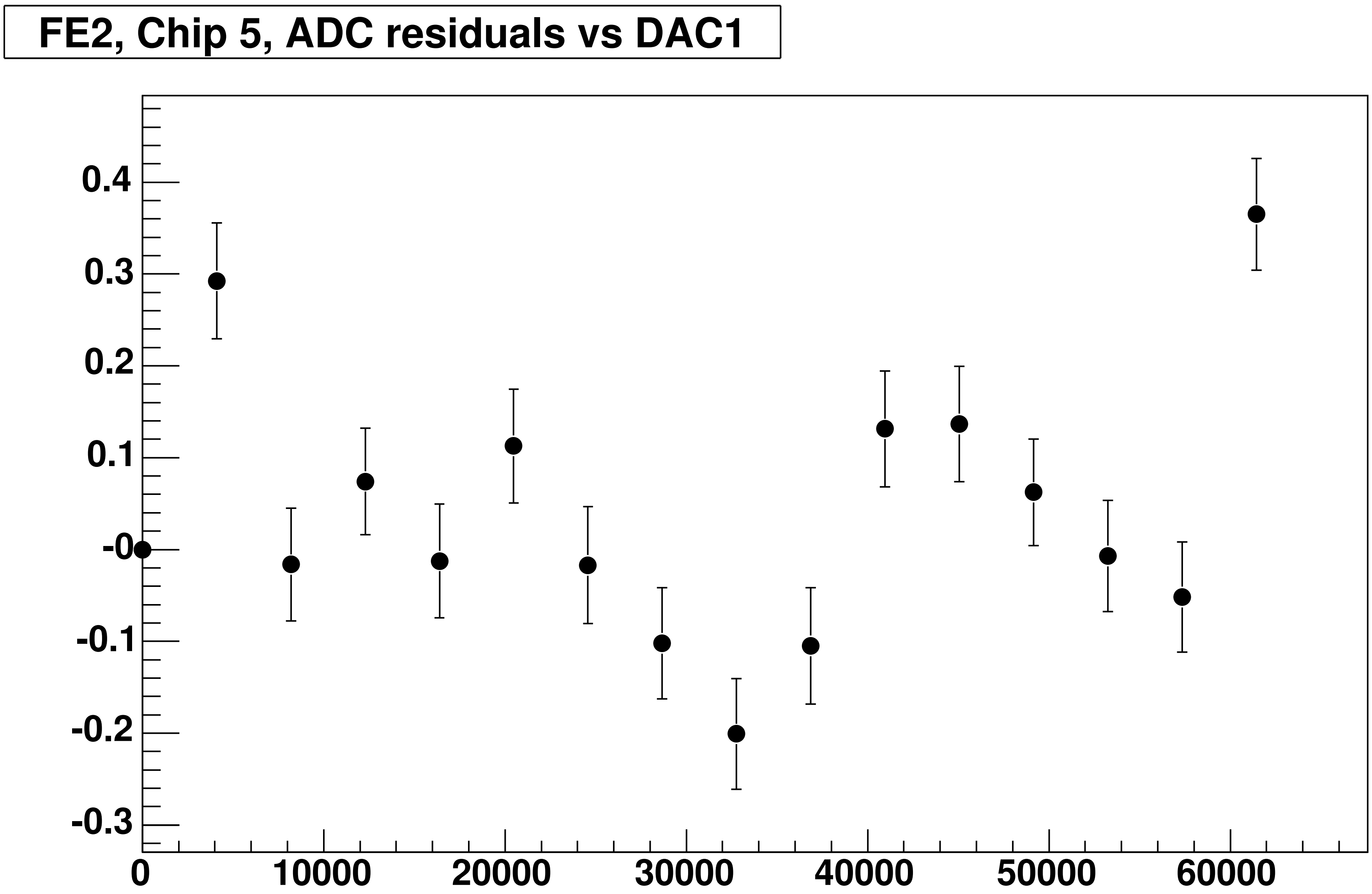
FE2, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



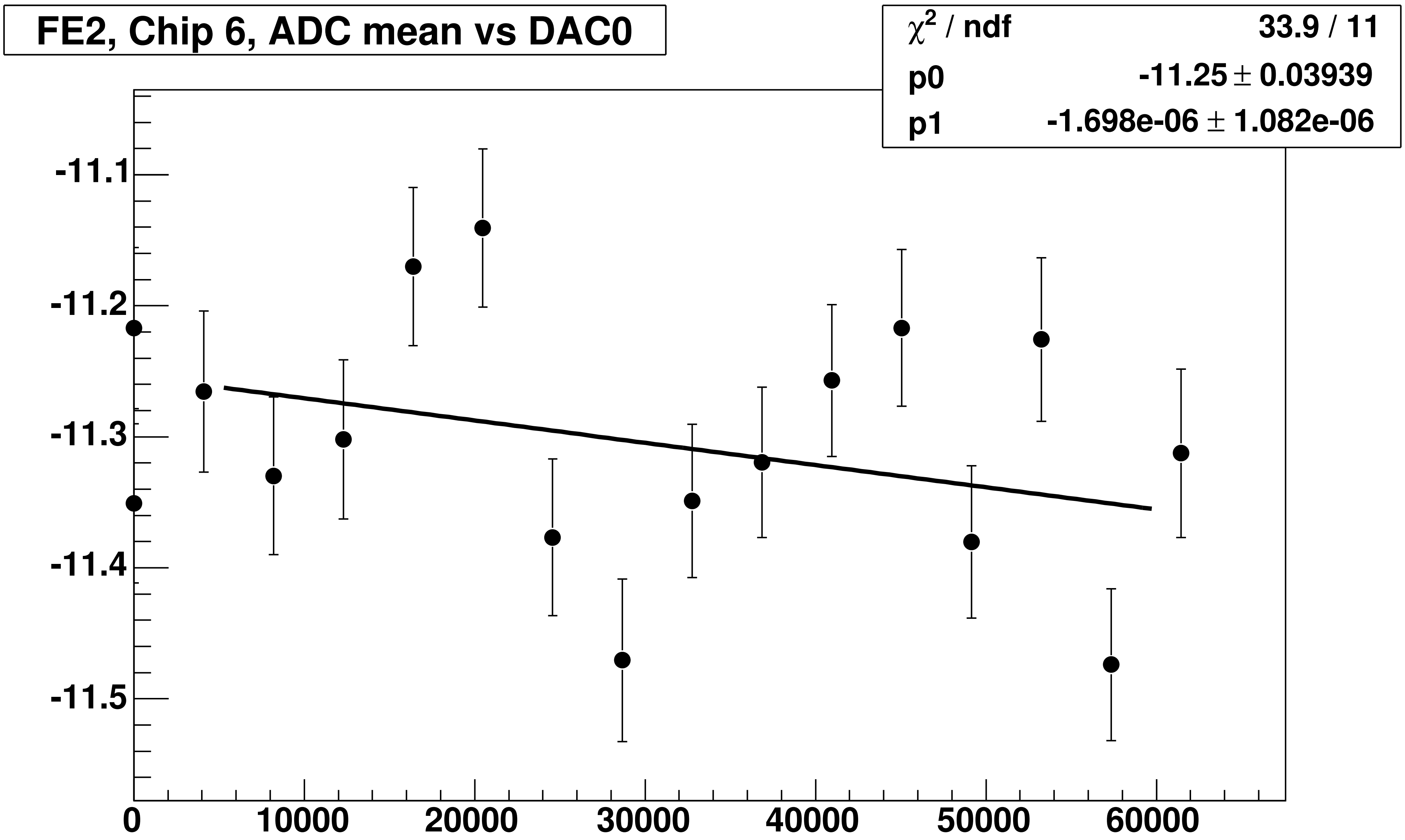
FE2, Chip 5, ADC mean vs DAC1
χ² / ndf 32.87 / 11
p0 -57.45 ± 0.03973
p1 3.759e-06 ± 1.094e-06
-56.8
-56.9
-57
-57.1
-57.2
-57.3
-57.4
-57.5
-57.6
0
10000
20000
30000
40000
50000
60000



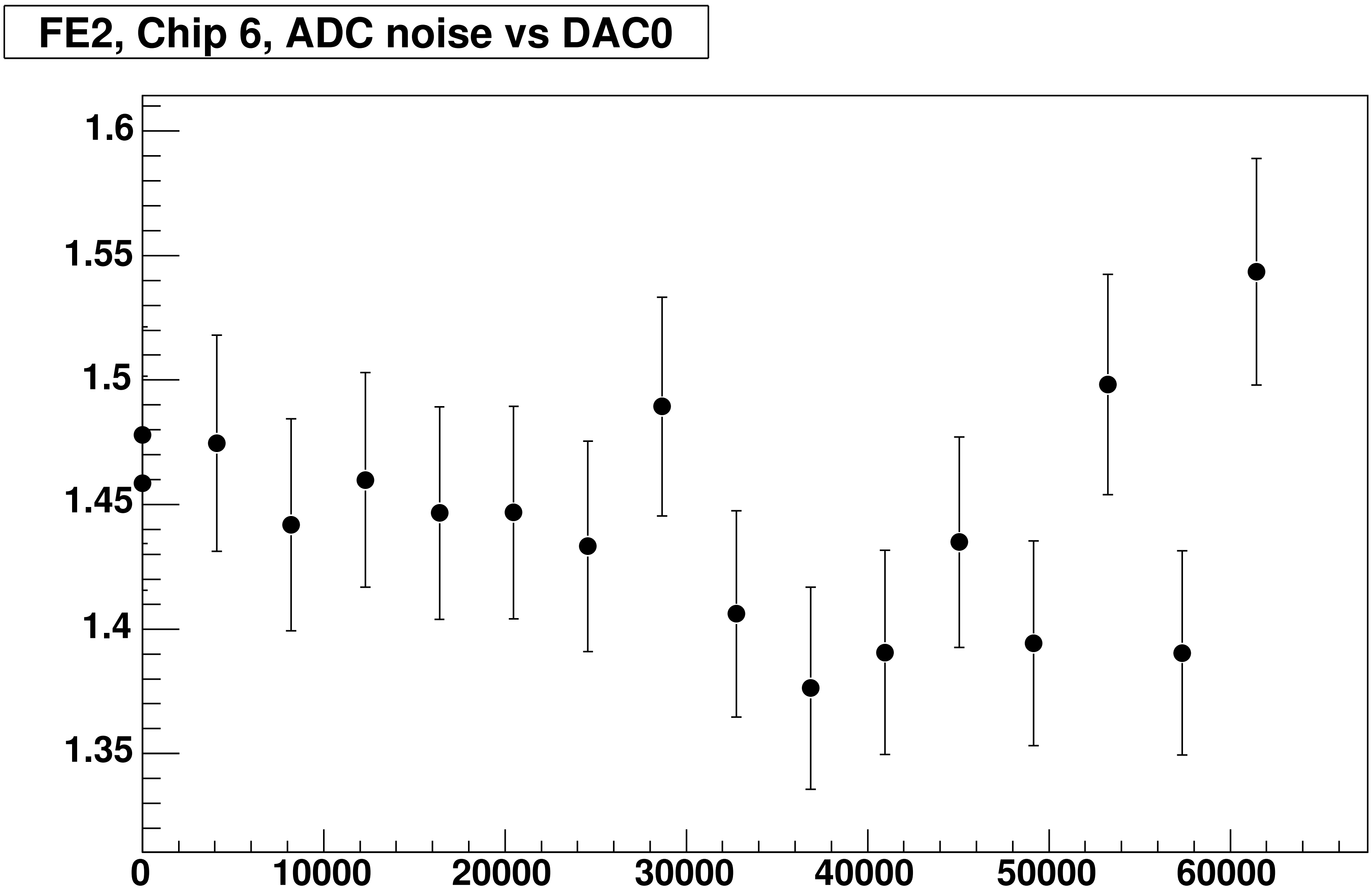
FE2, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

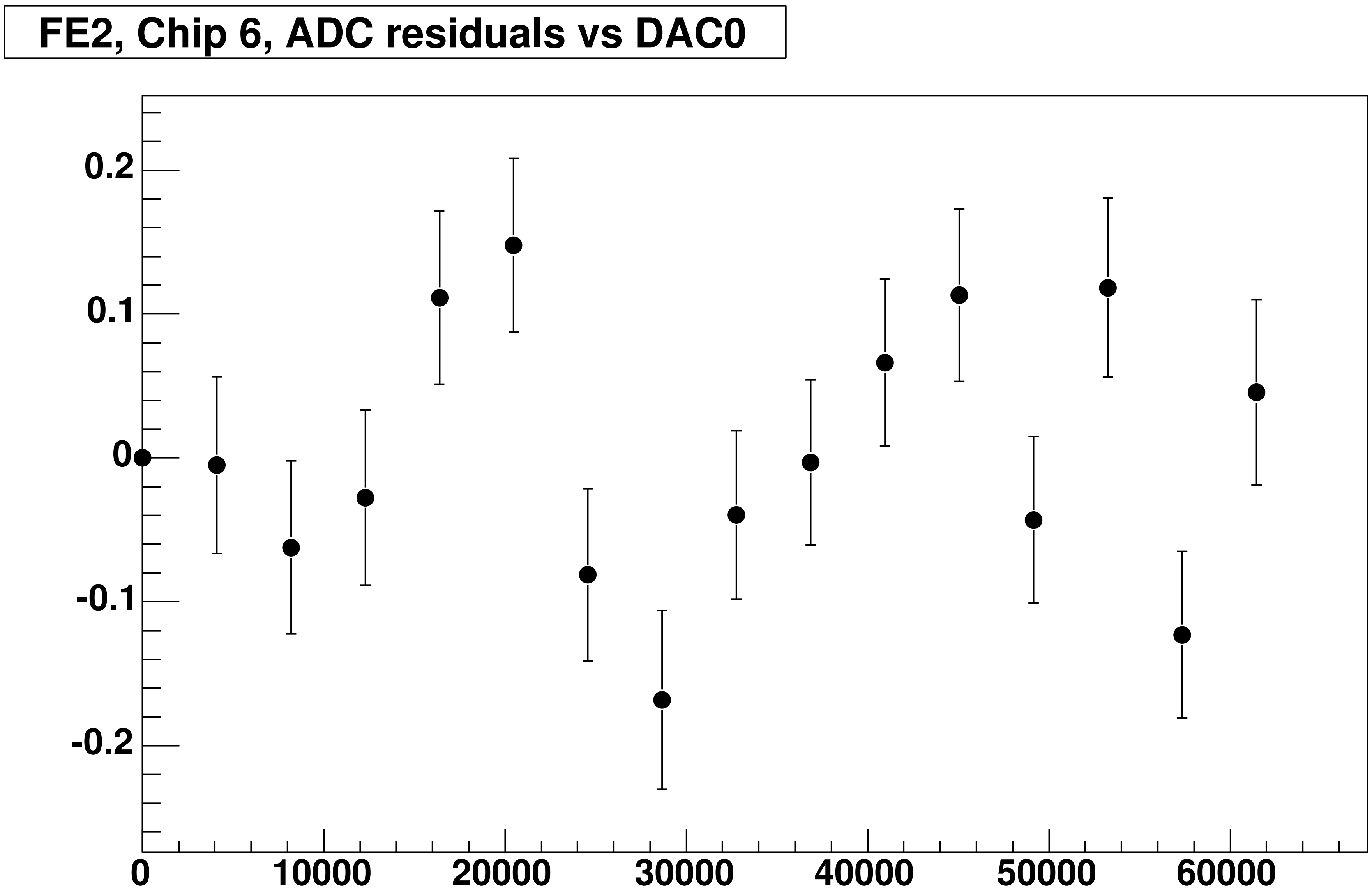


FE2, Chip 5, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

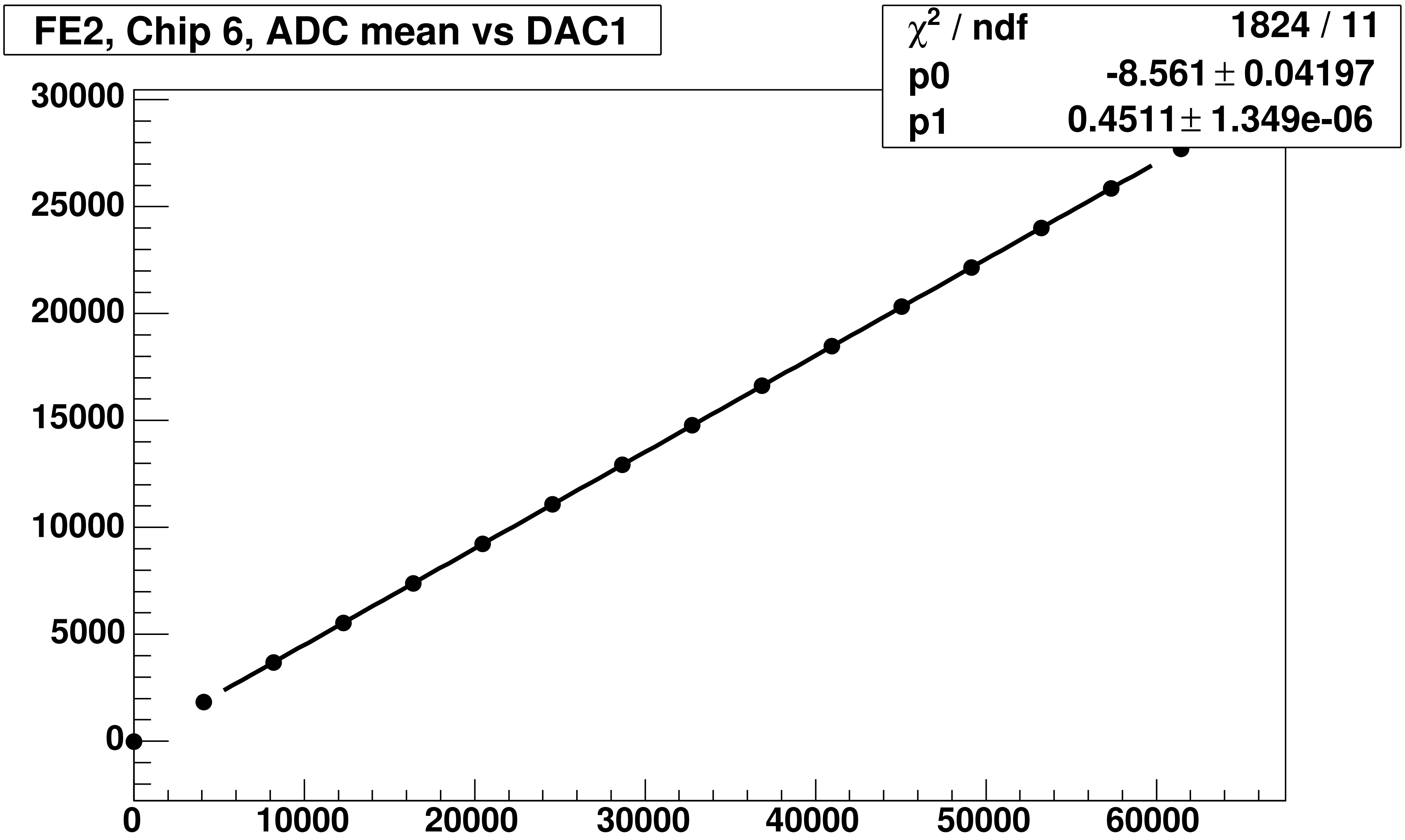


FE2, Chip 6, ADC mean vs DAC0
χ^2 / ndf 33.9 / 11
p0 -11.25 ± 0.03939
p1 -1.698e-06 ± 1.082e-06
-11.1
-11.2
-11.3
-11.4
-11.5
0
10000
20000
30000
40000
50000
60000

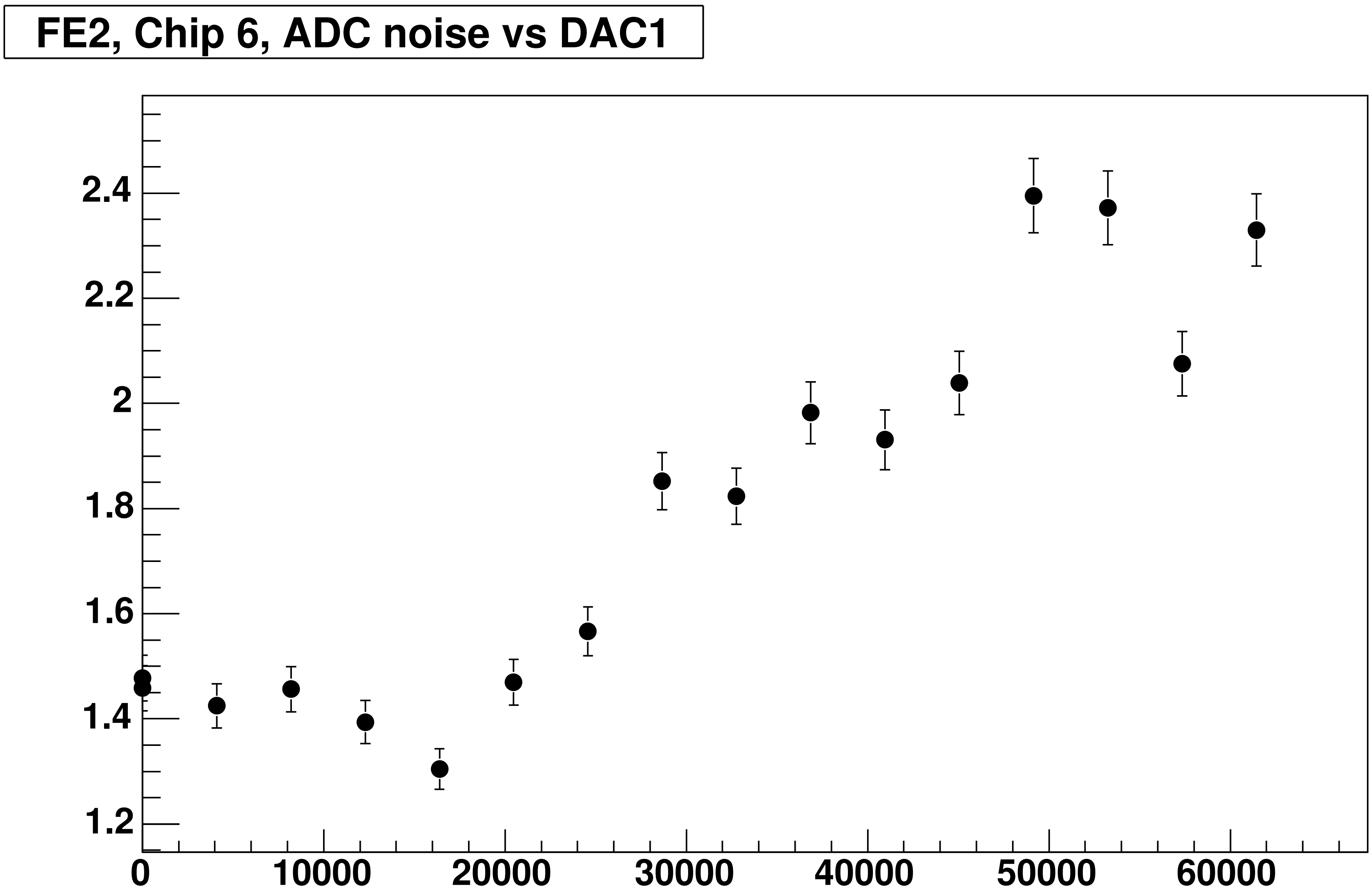

FE2, Chip 6, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

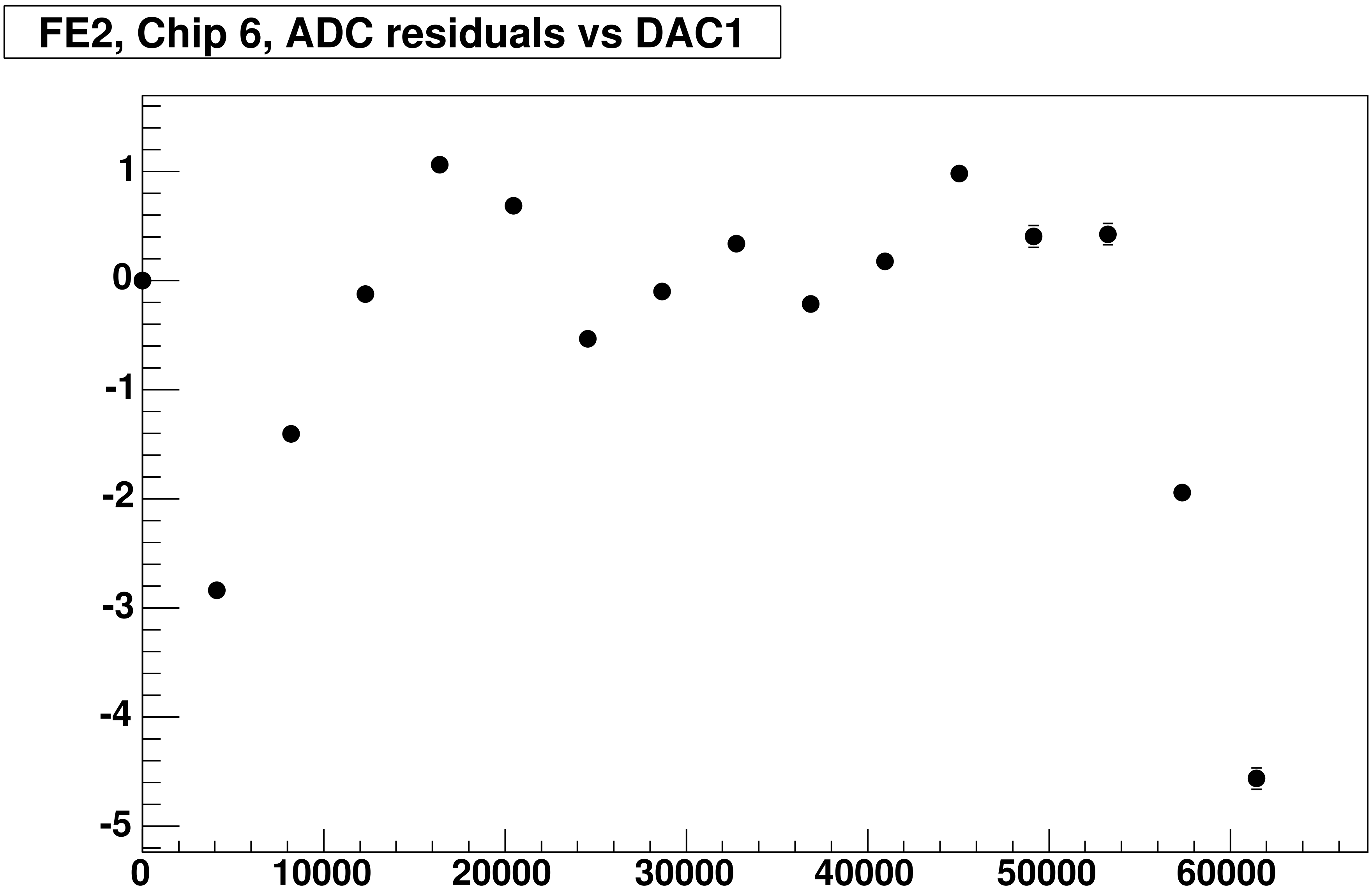


FE2, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

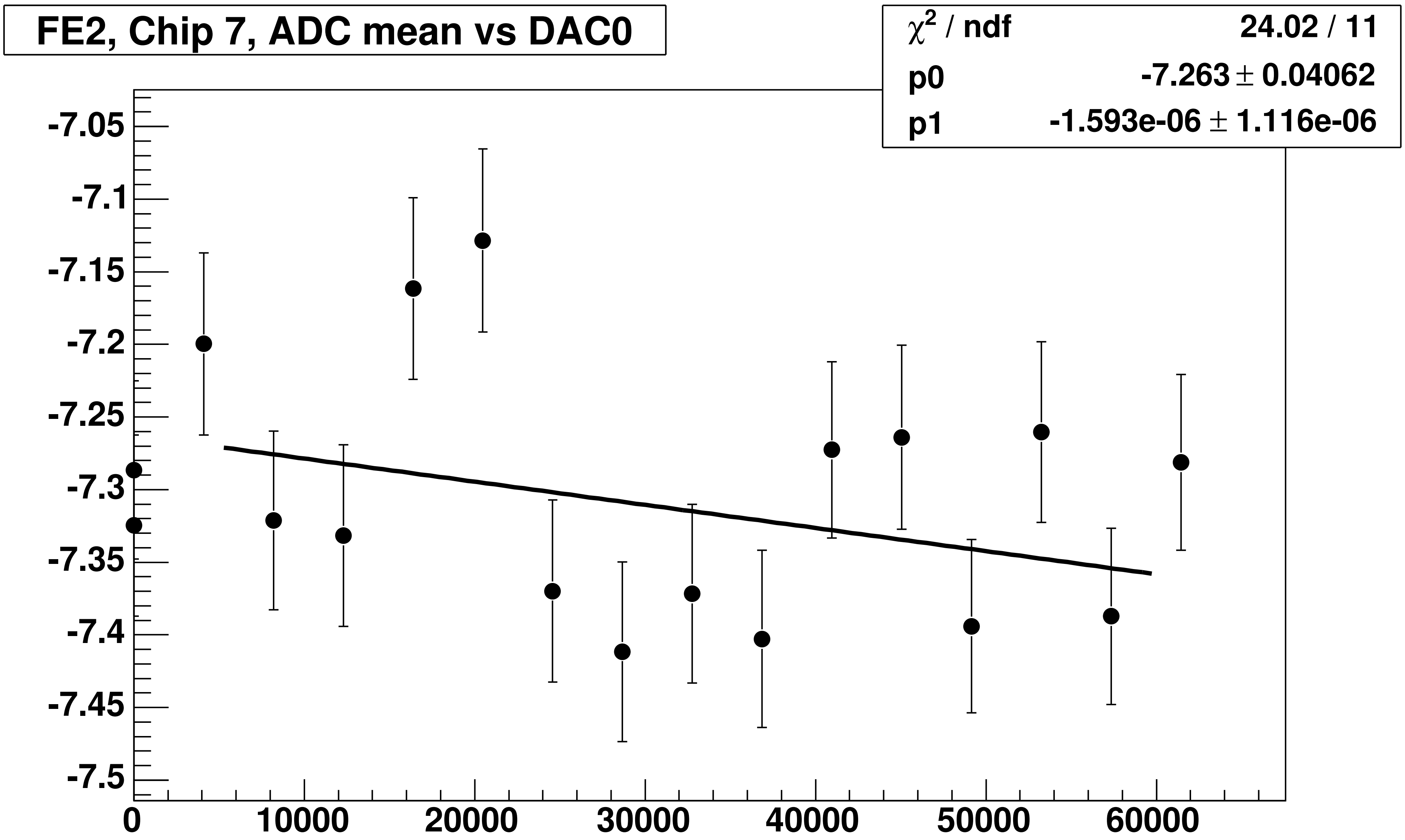


FE2, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1824 / 11
p0 -8.561 ± 0.04197
p1 0.4511 ± 1.349e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

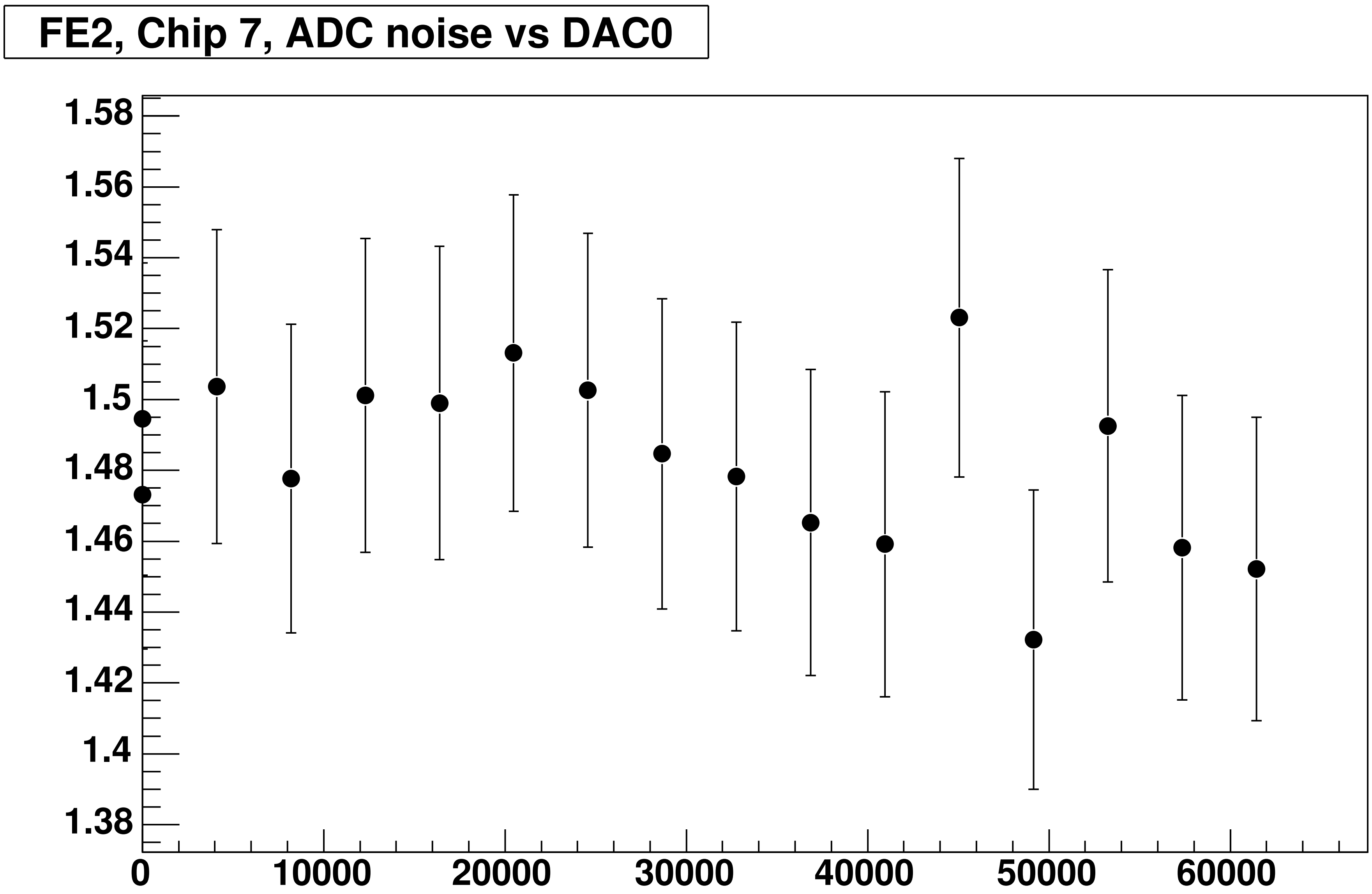

FE2, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



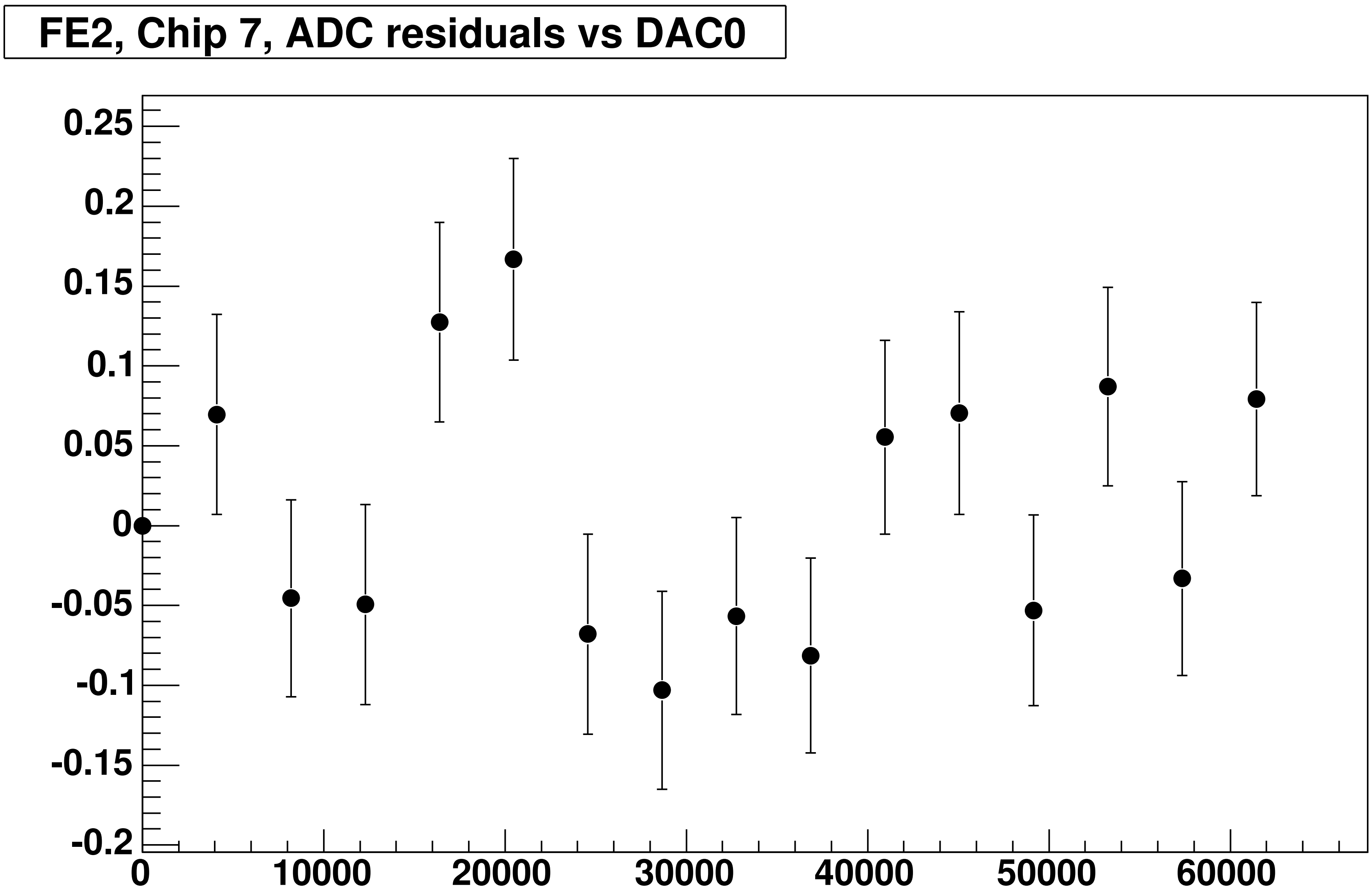
FE2, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



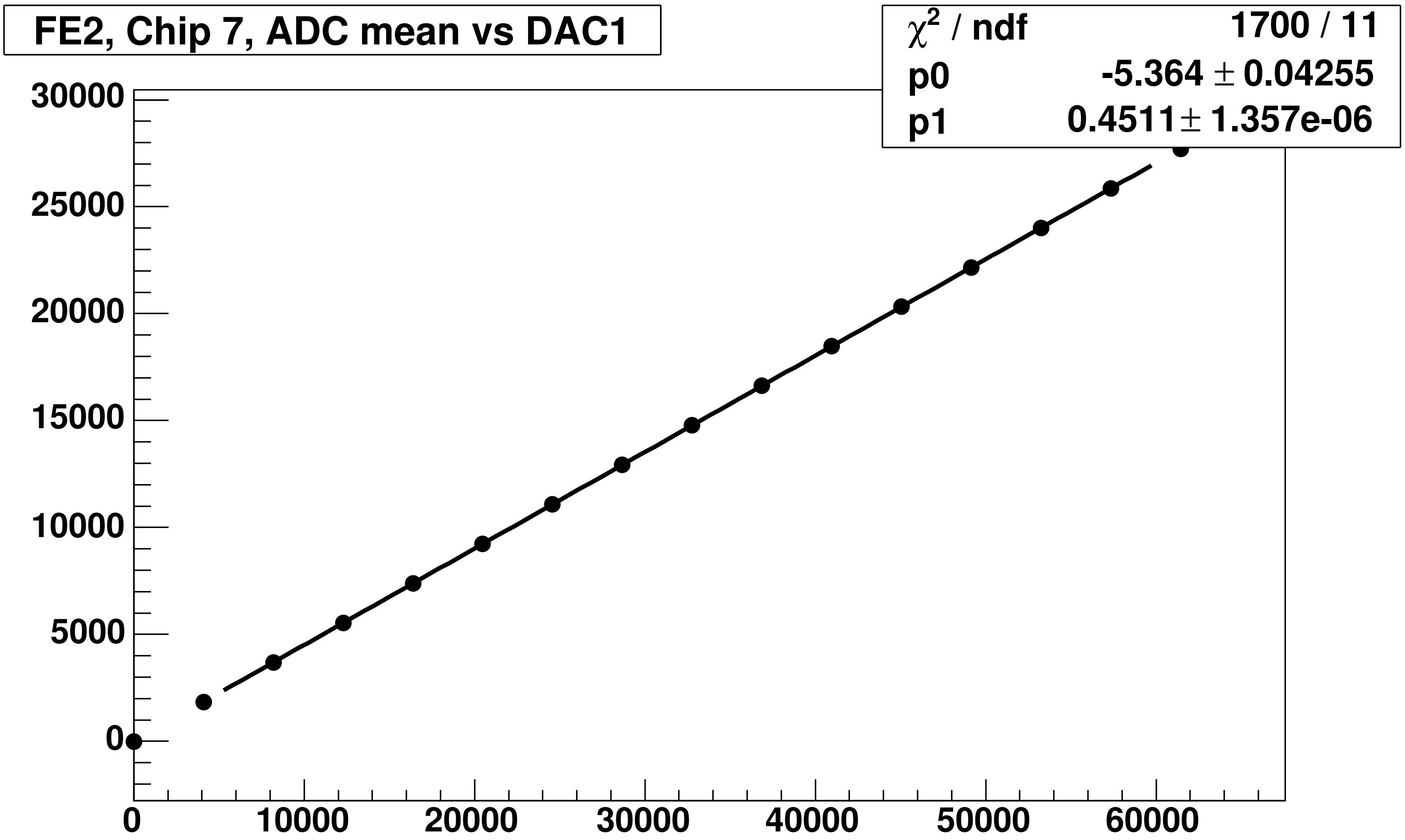
FE2, Chip 7, ADC mean vs DAC0
χ2 / ndf 24.02 / 11
p0 -7.263 ± 0.04062
p1 -1.593e-06 ± 1.116e-06
-7.05
-7.1
-7.15
-7.2
-7.25
-7.3
-7.35
-7.4
-7.45
-7.5
0
10000
20000
30000
40000
50000
60000

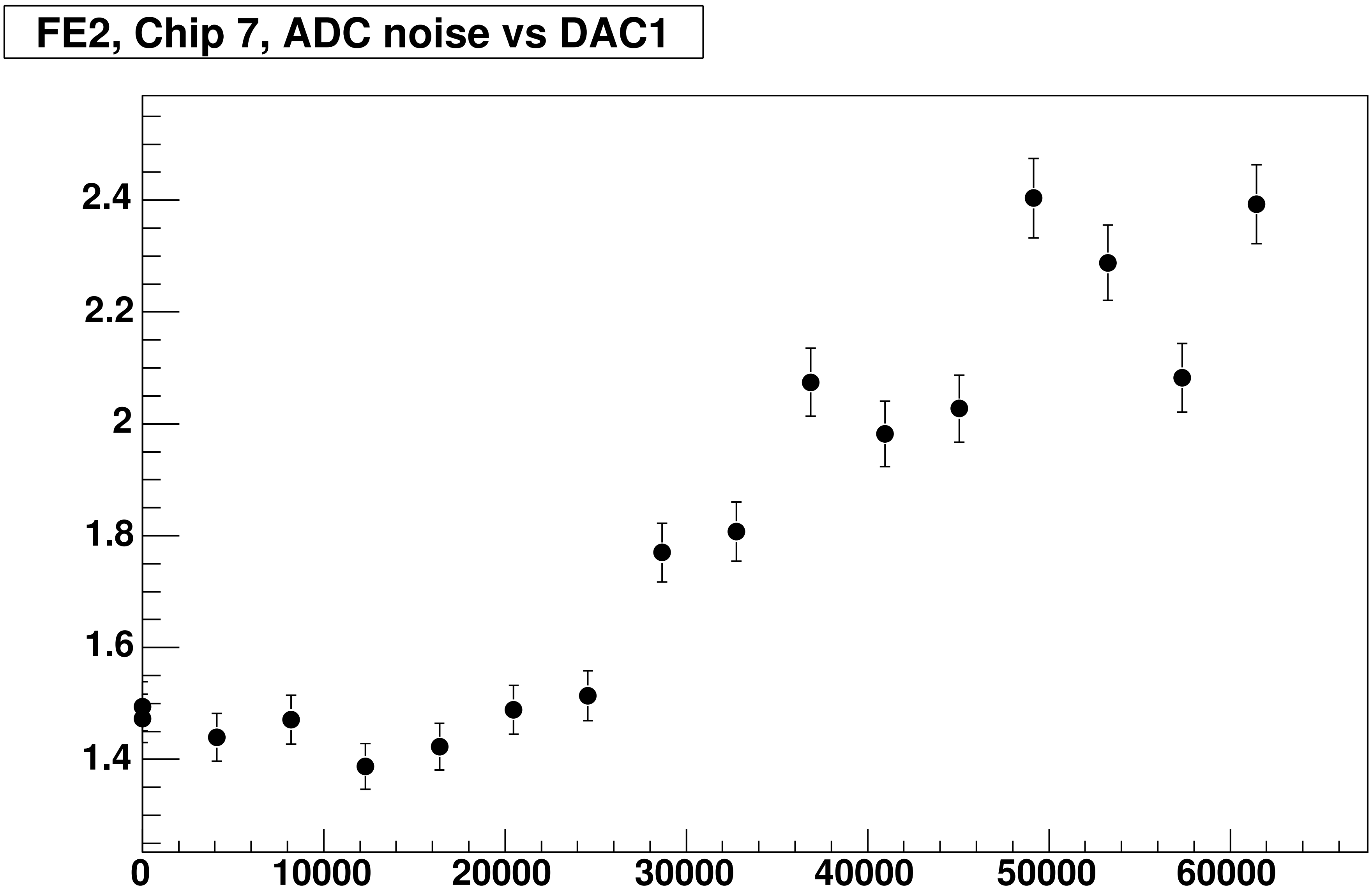


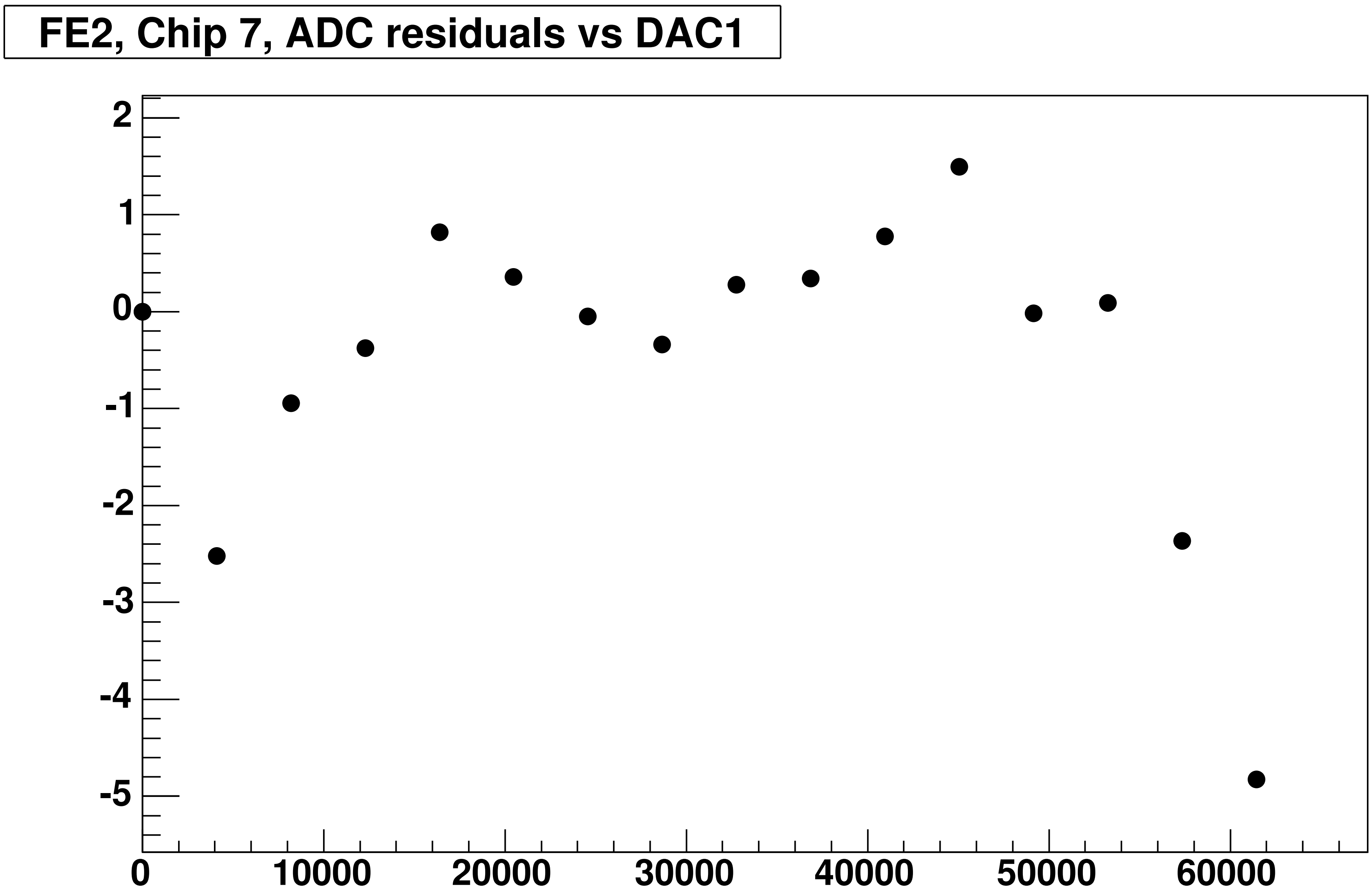
FE2, Chip 7, ADC noise vs DAC0
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
0
10000
20000
30000
40000
50000
60000



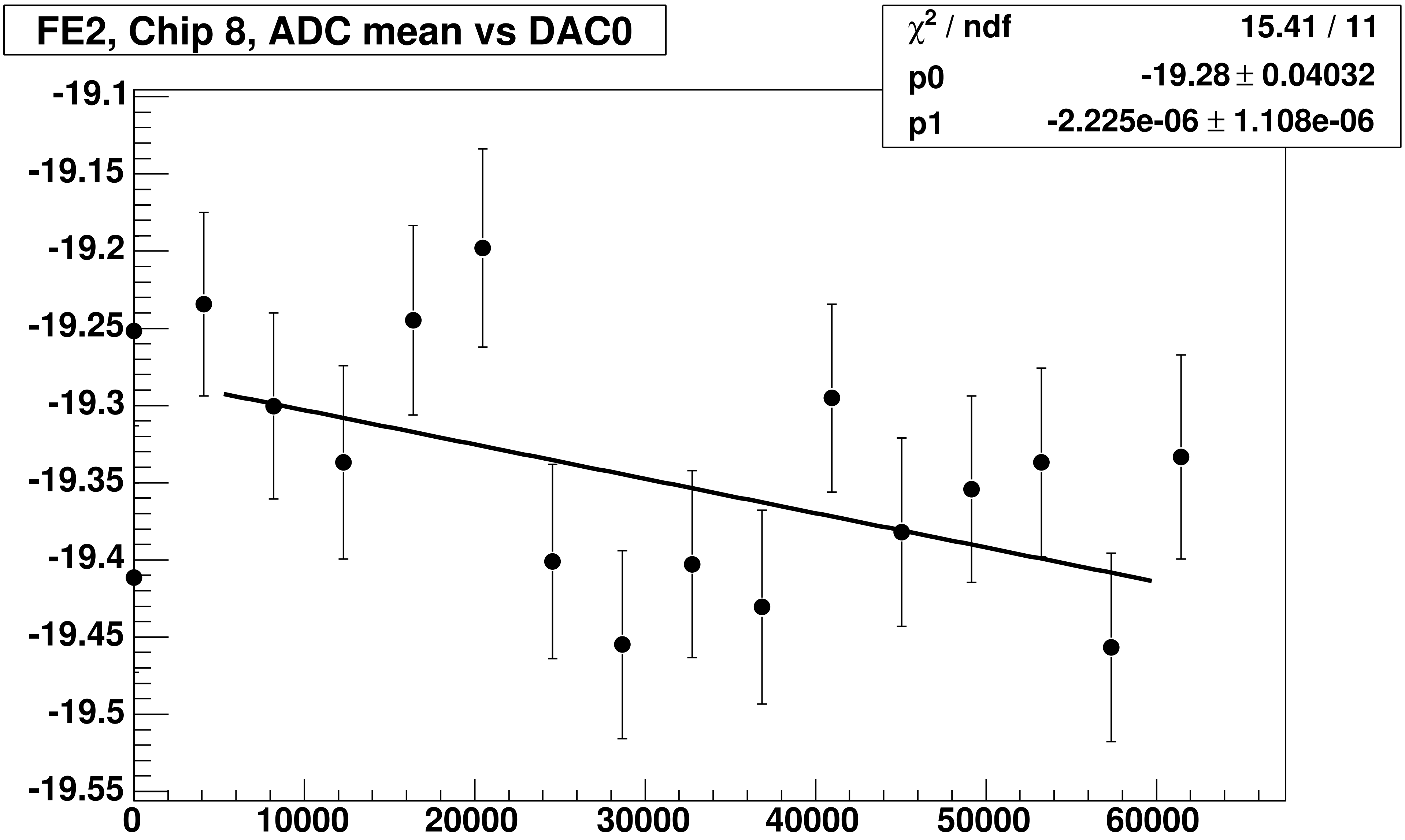
FE2, Chip 7, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE2, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1700 / 11
p0 -5.364 ± 0.04255
p1 0.4511 ± 1.357e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

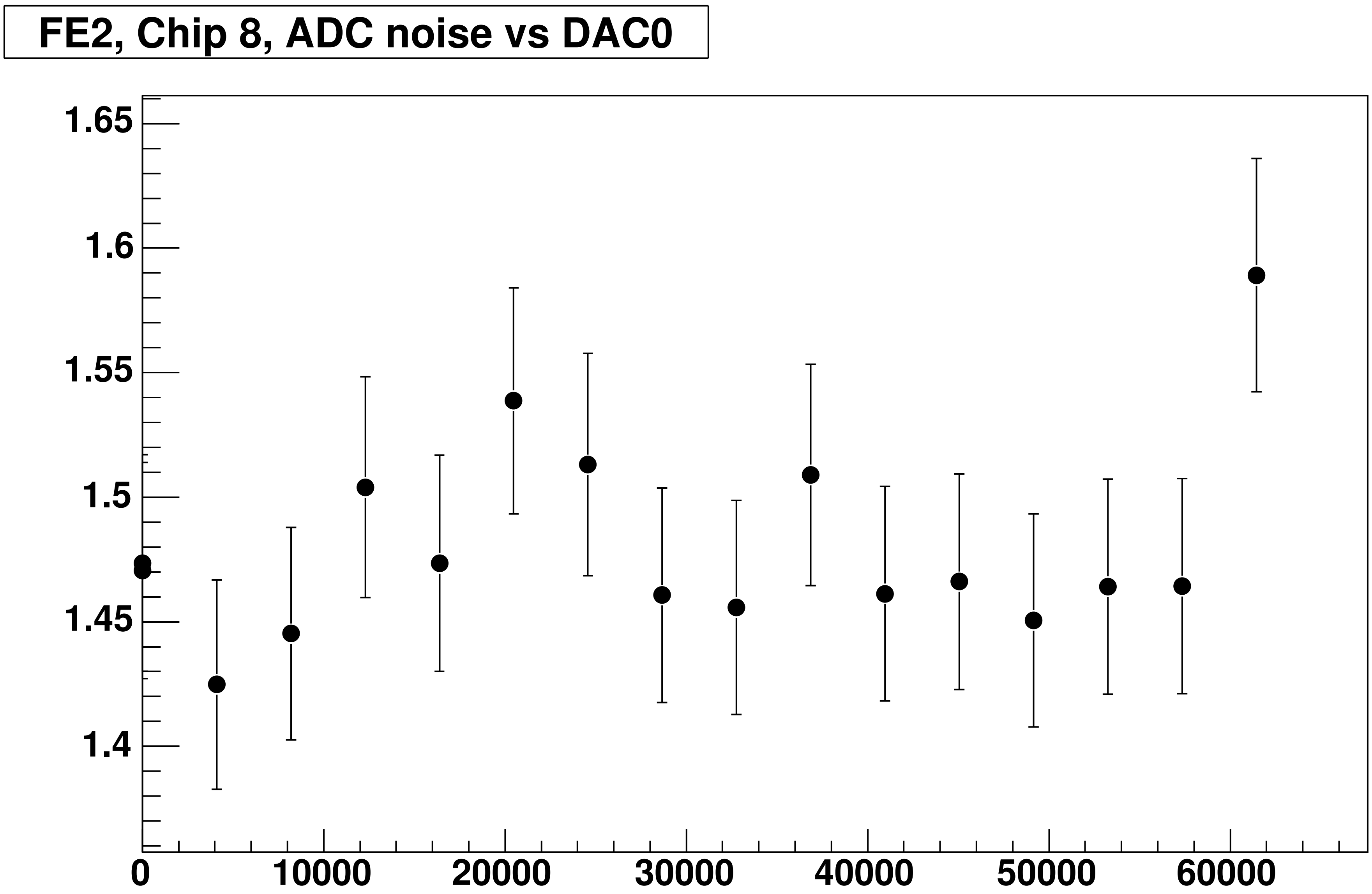

FE2, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

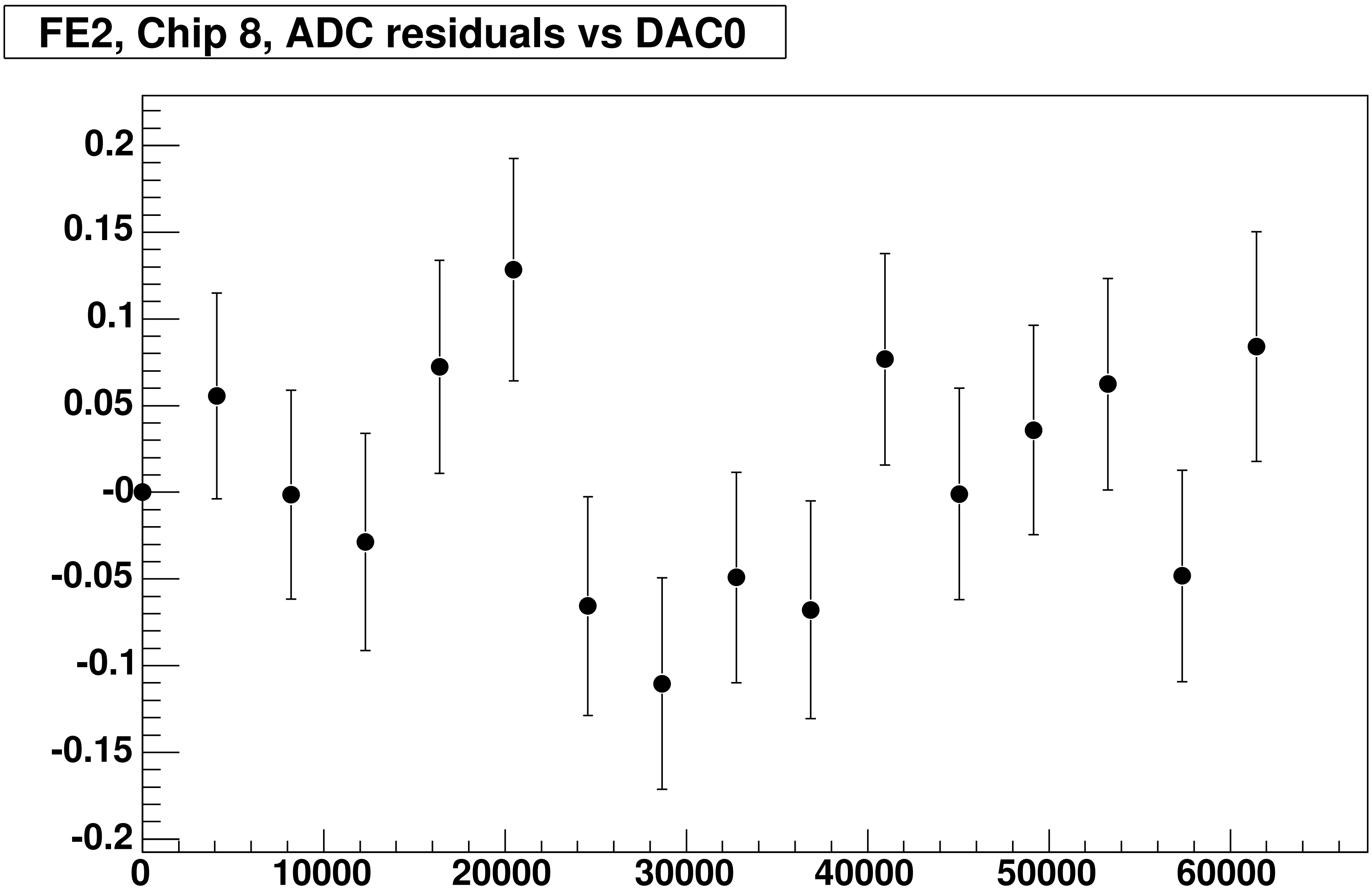


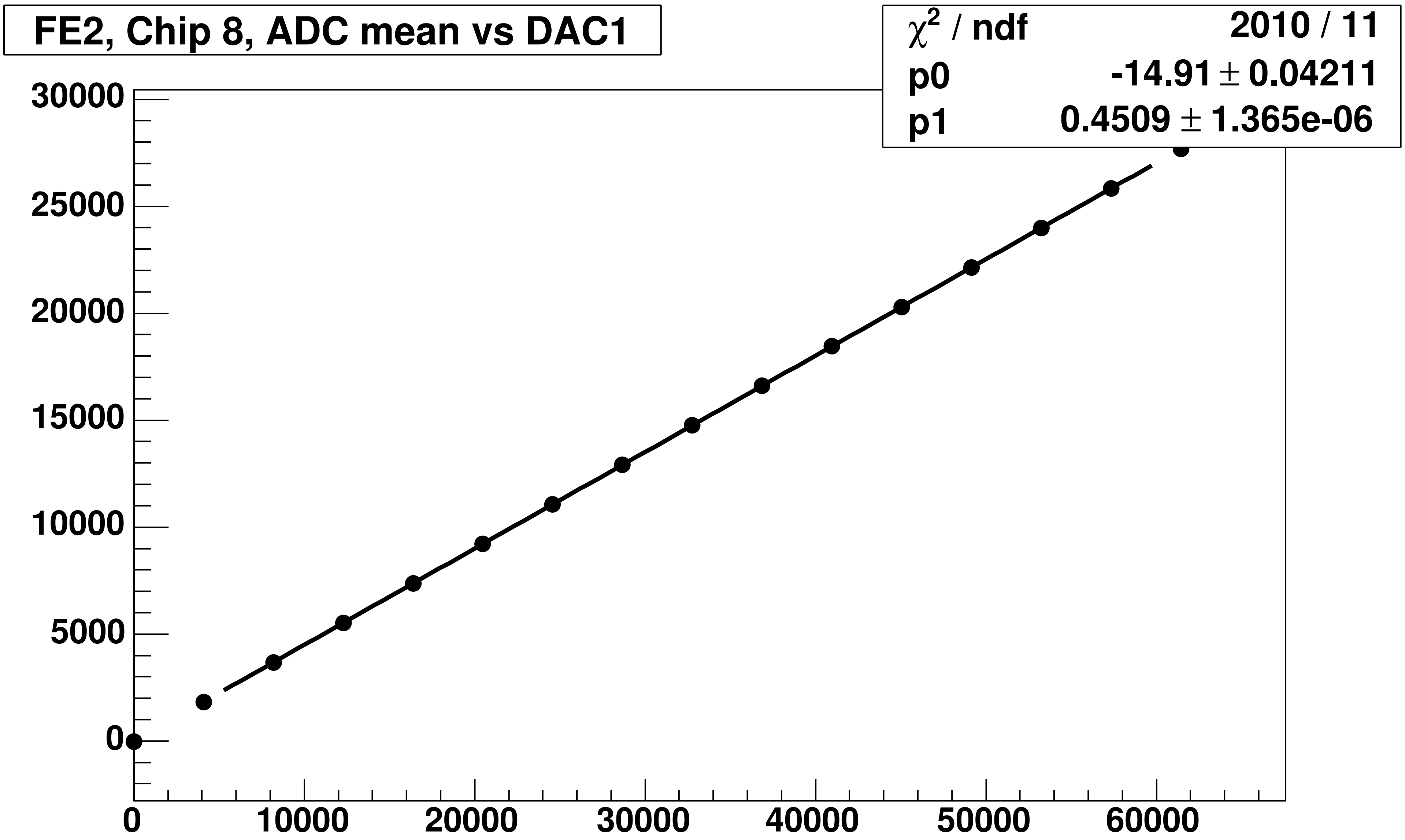
FE2, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



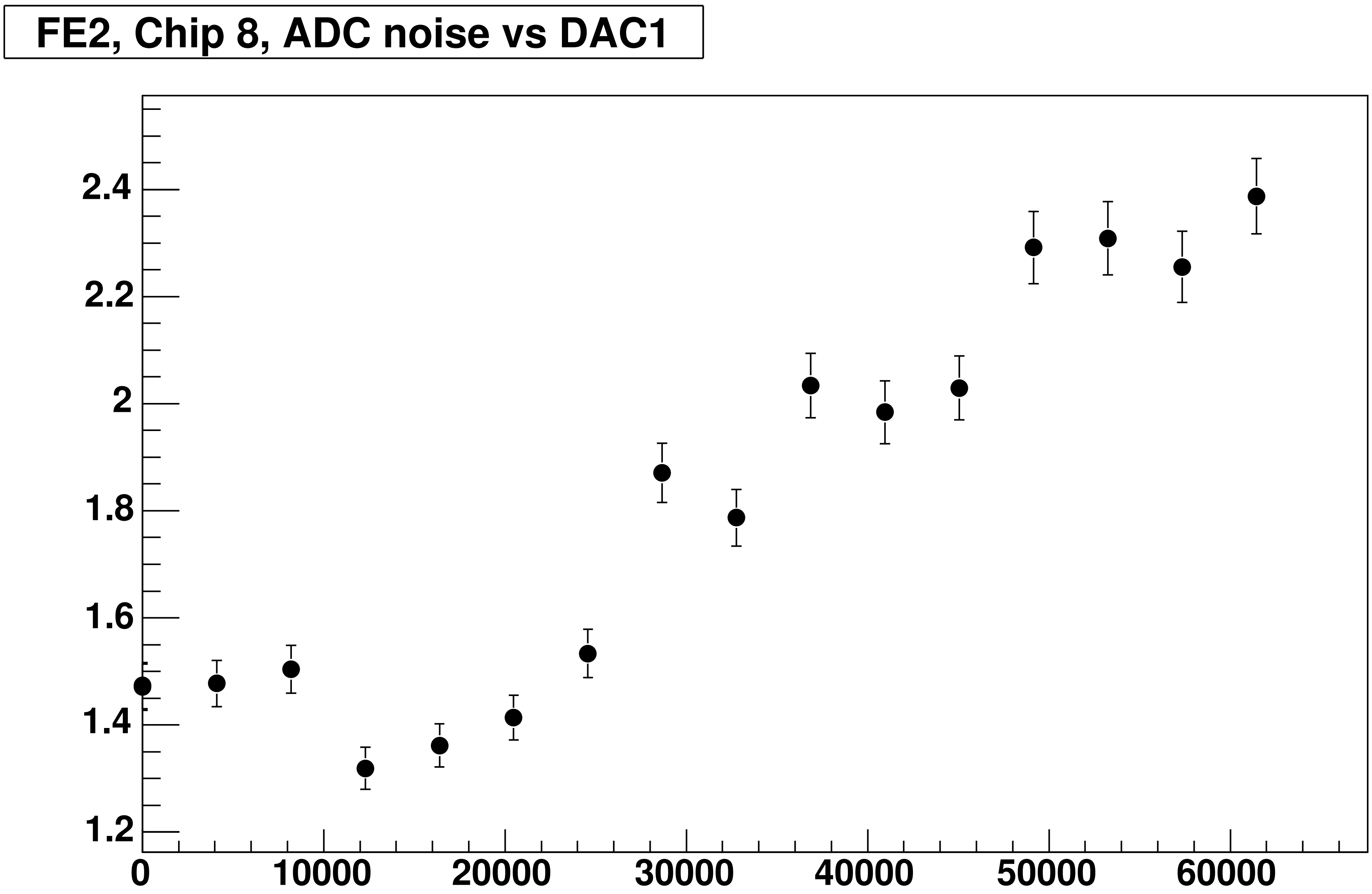
FE2, Chip 8, ADC mean vs DAC0
χ² / ndf 15.41 / 11
p0 -19.28 ± 0.04032
p1 -2.225e-06 ± 1.108e-06
-19.1
-19.15
-19.2
-19.25
-19.3
-19.35
-19.4
-19.45
-19.5
-19.55
0
10000
20000
30000
40000
50000
60000

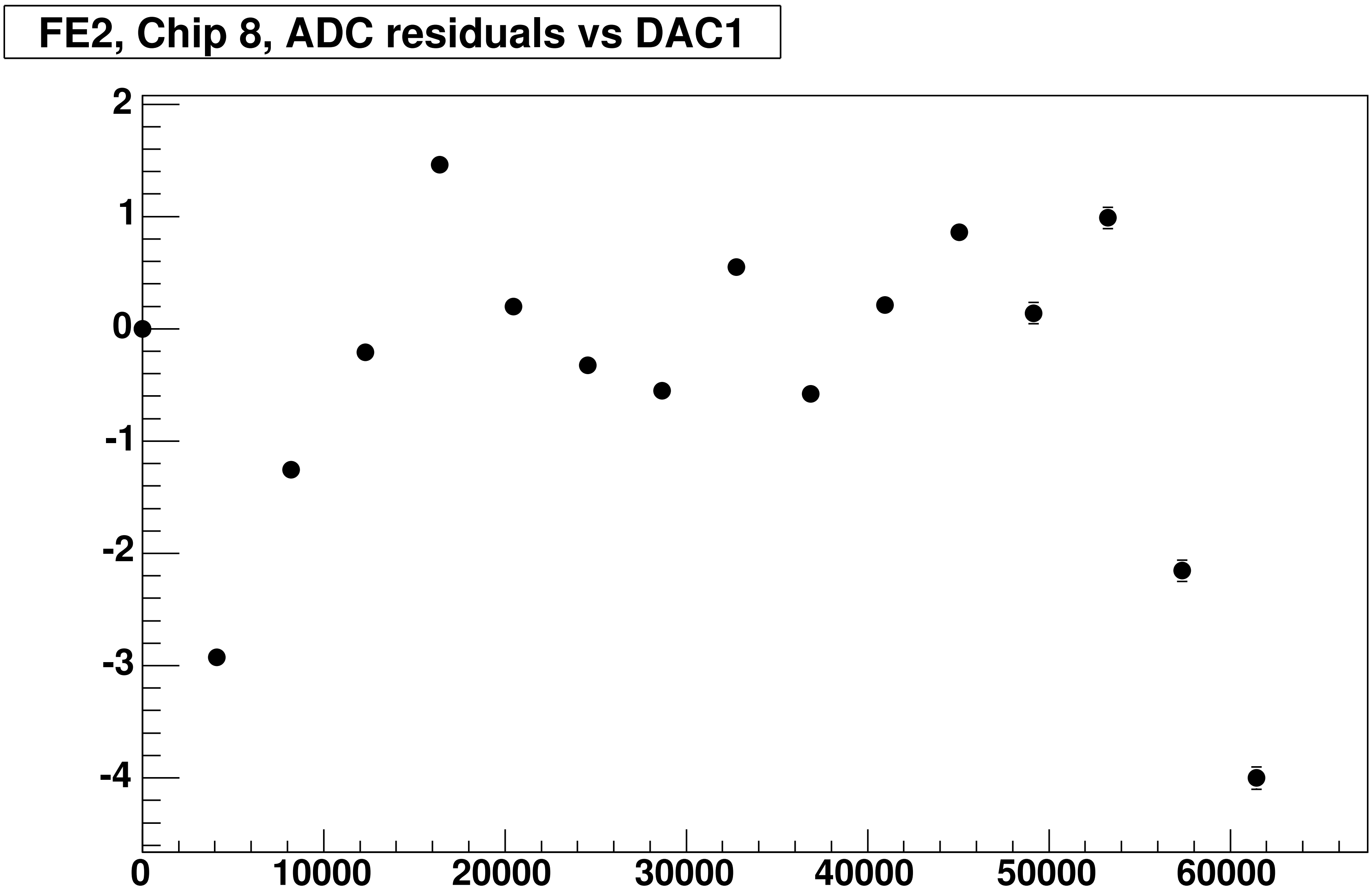

FE2, Chip 8, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


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

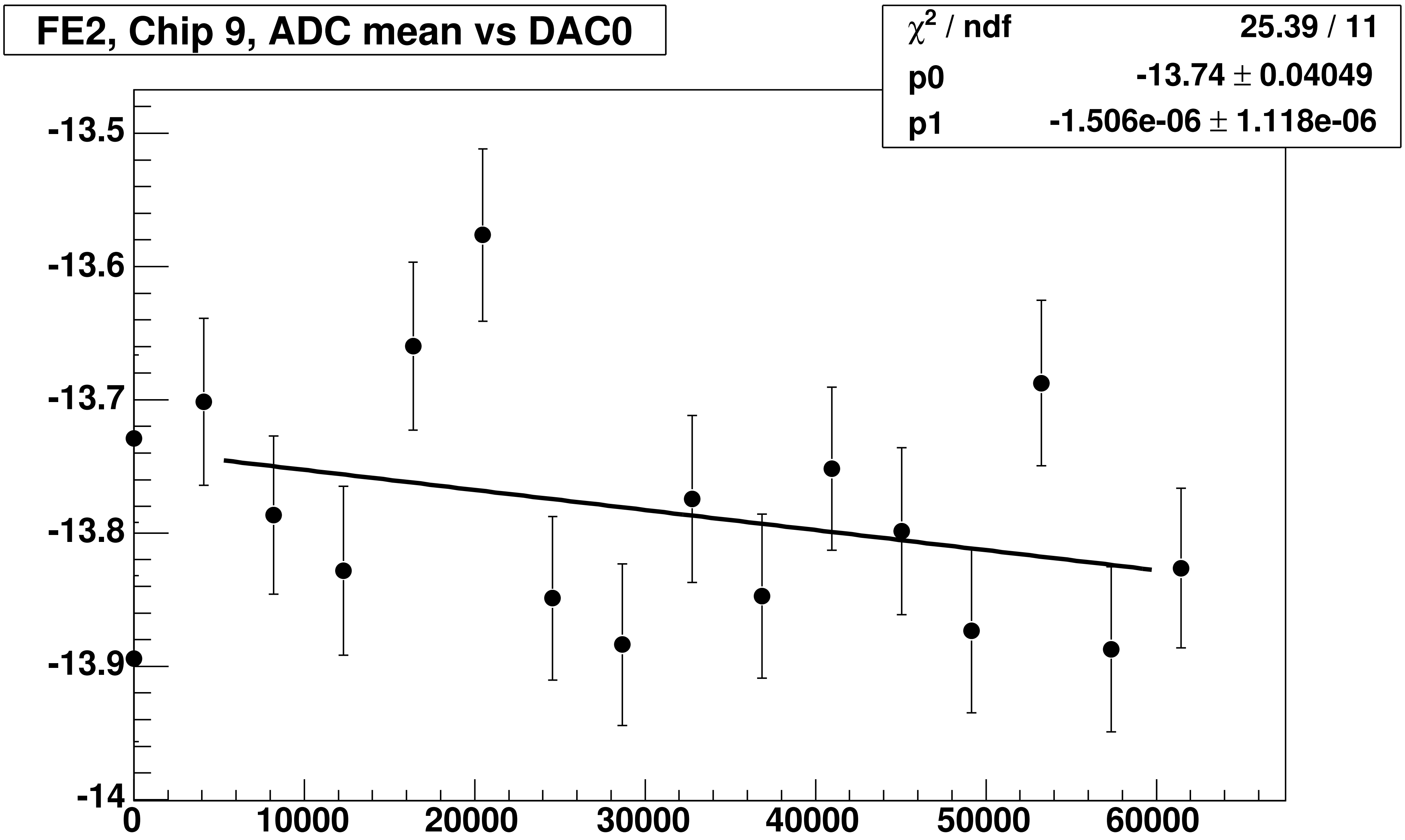


FE2, Chip 8, ADC mean vs DAC1
χ^2 / ndf 2010 / 11
p0 -14.91 ± 0.04211
p1 0.4509 ± 1.365e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

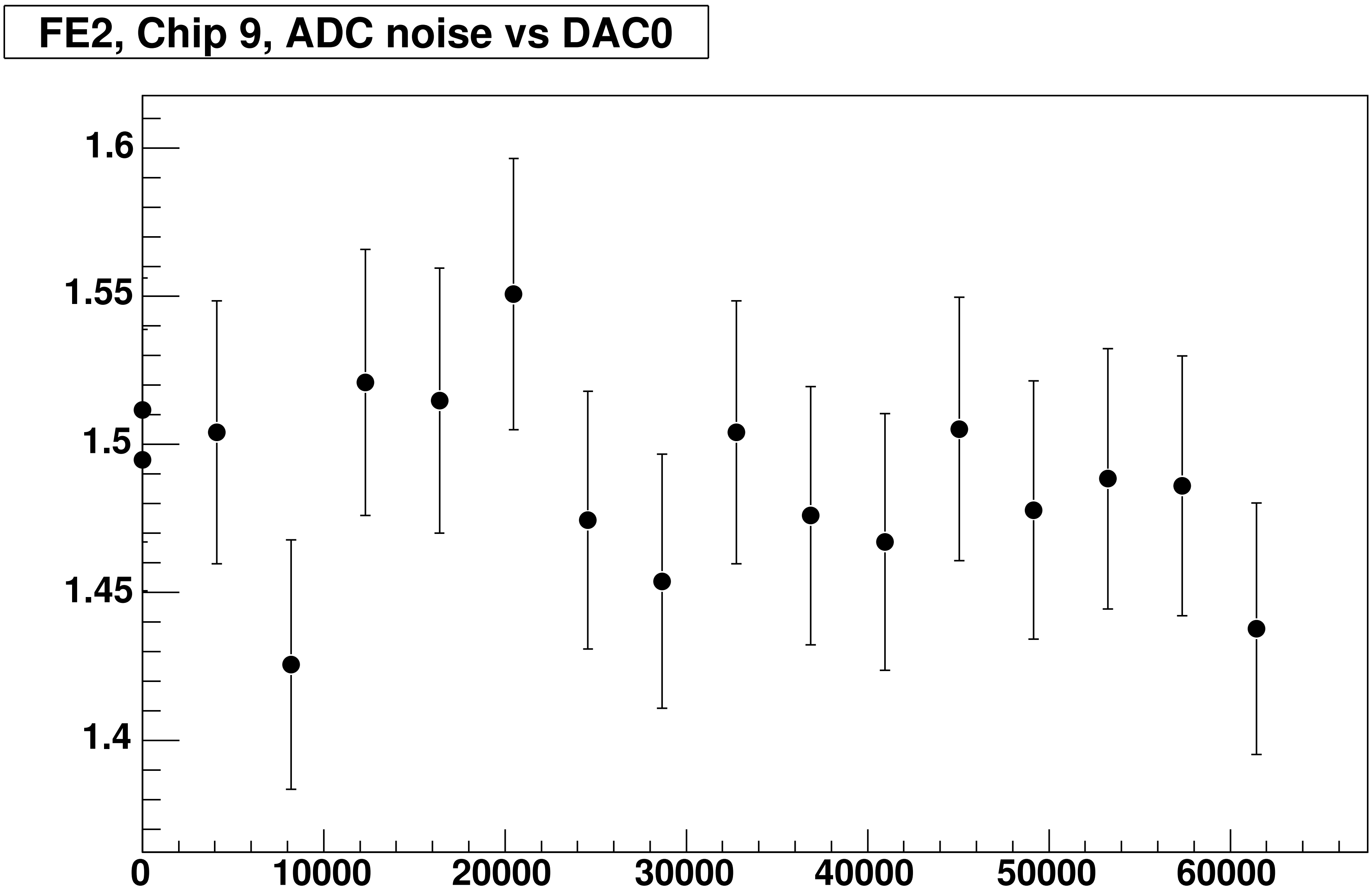

FE2, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



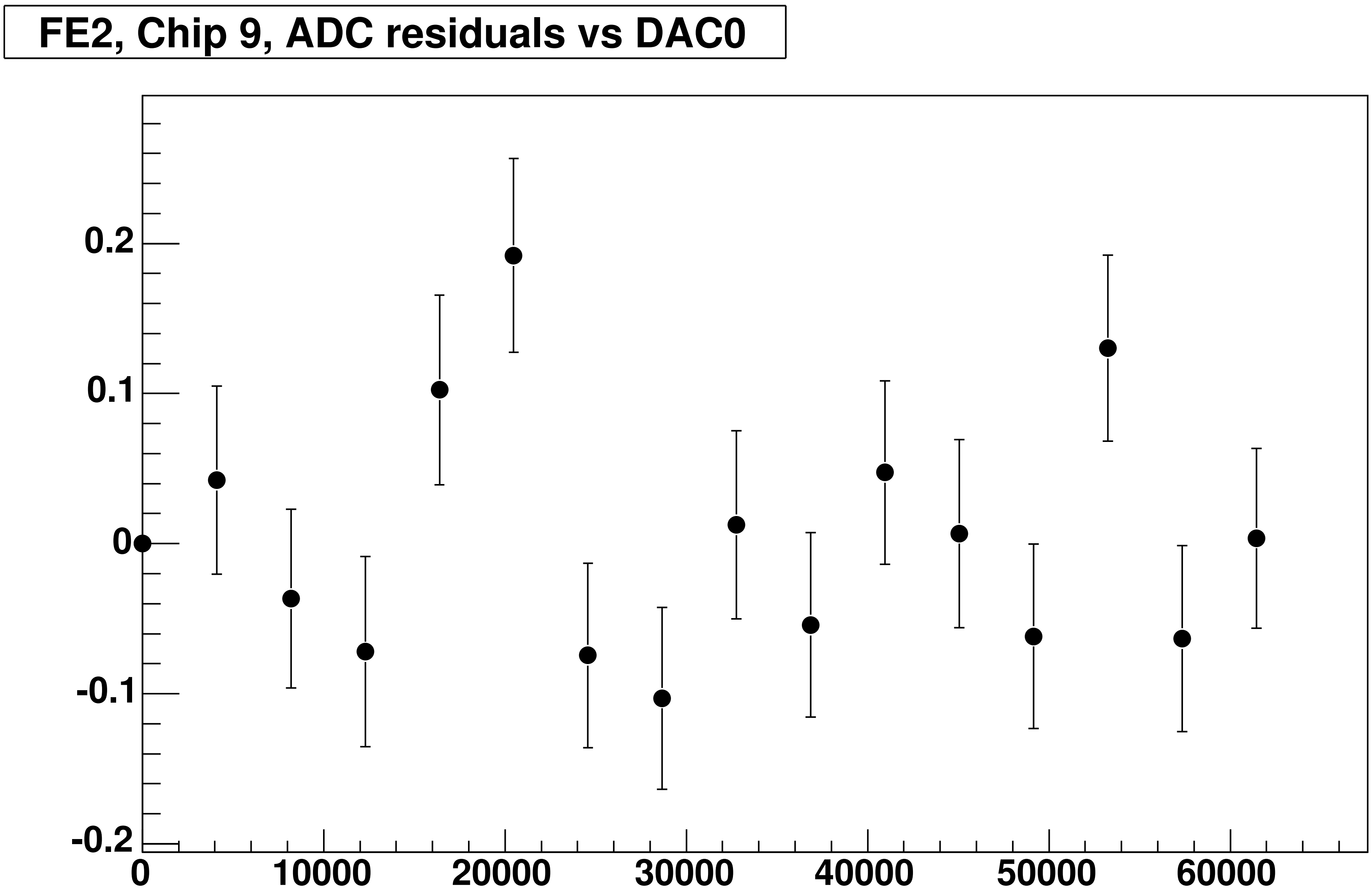
FE2, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

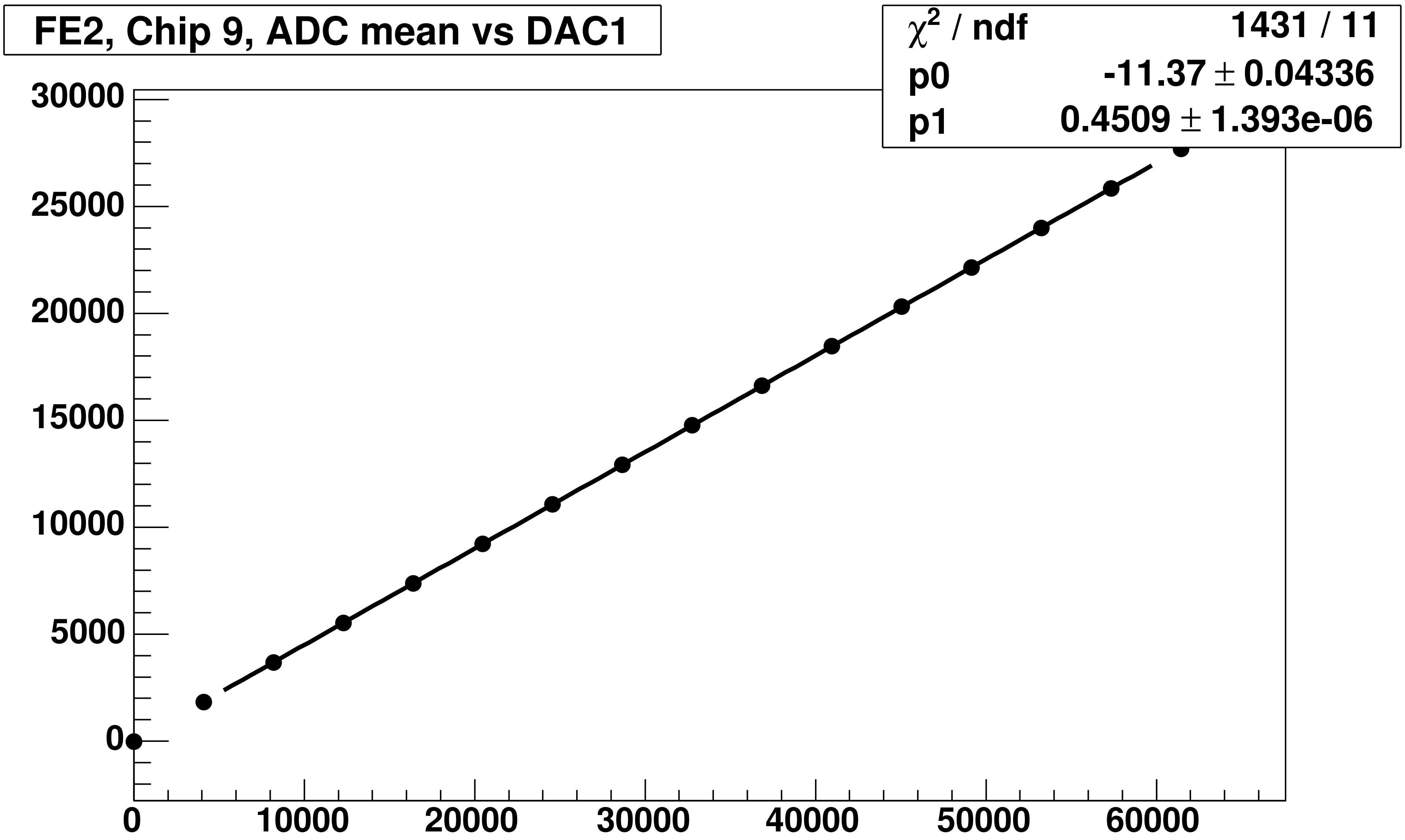


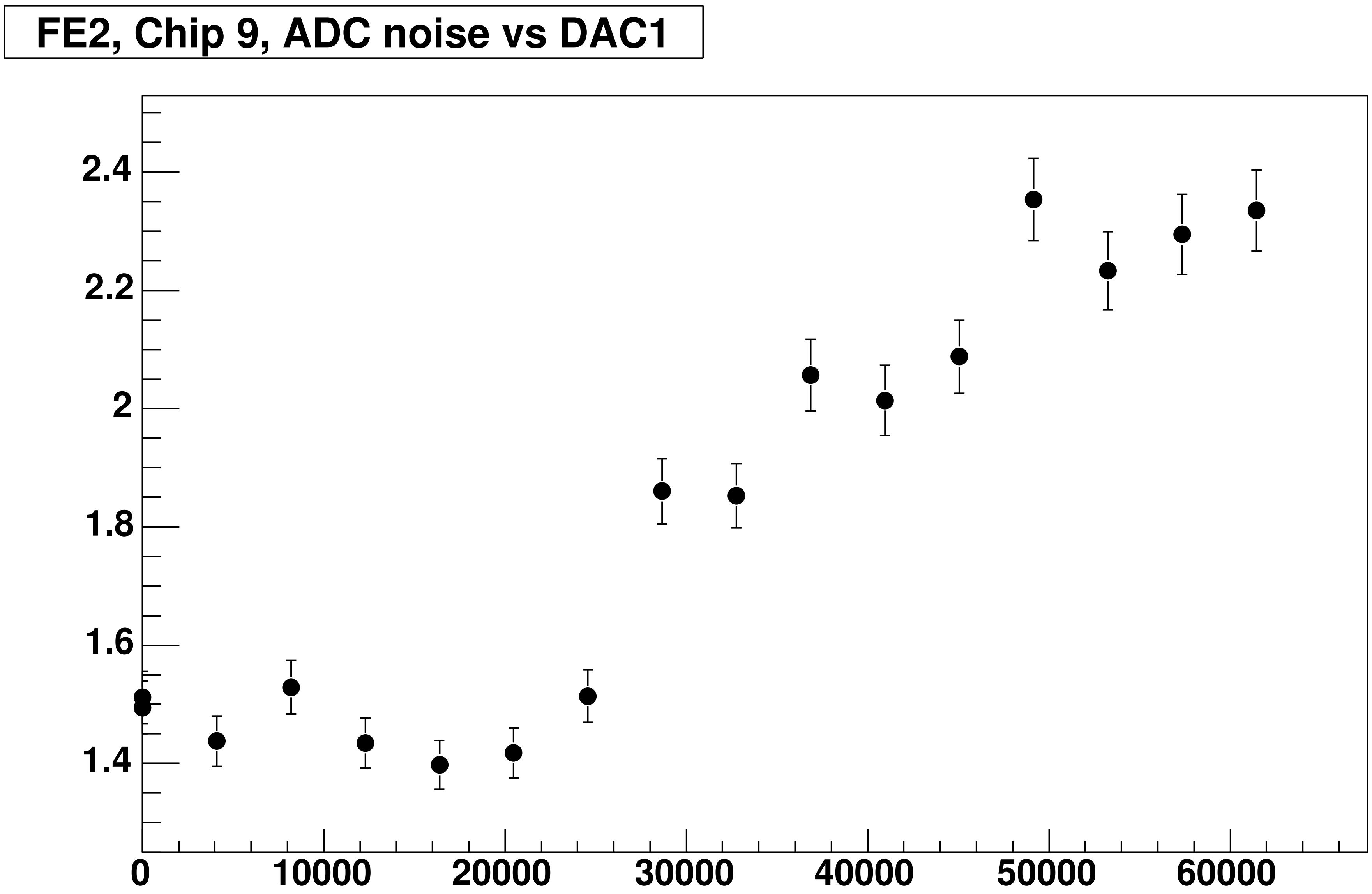
FE2, Chip 9, ADC mean vs DAC0
χ^2 / ndf 25.39 / 11
p0 -13.74 ± 0.04049
p1 -1.506e-06 ± 1.118e-06
-13.5
-13.6
-13.7
-13.8
-13.9
-14
0
10000
20000
30000
40000
50000
60000



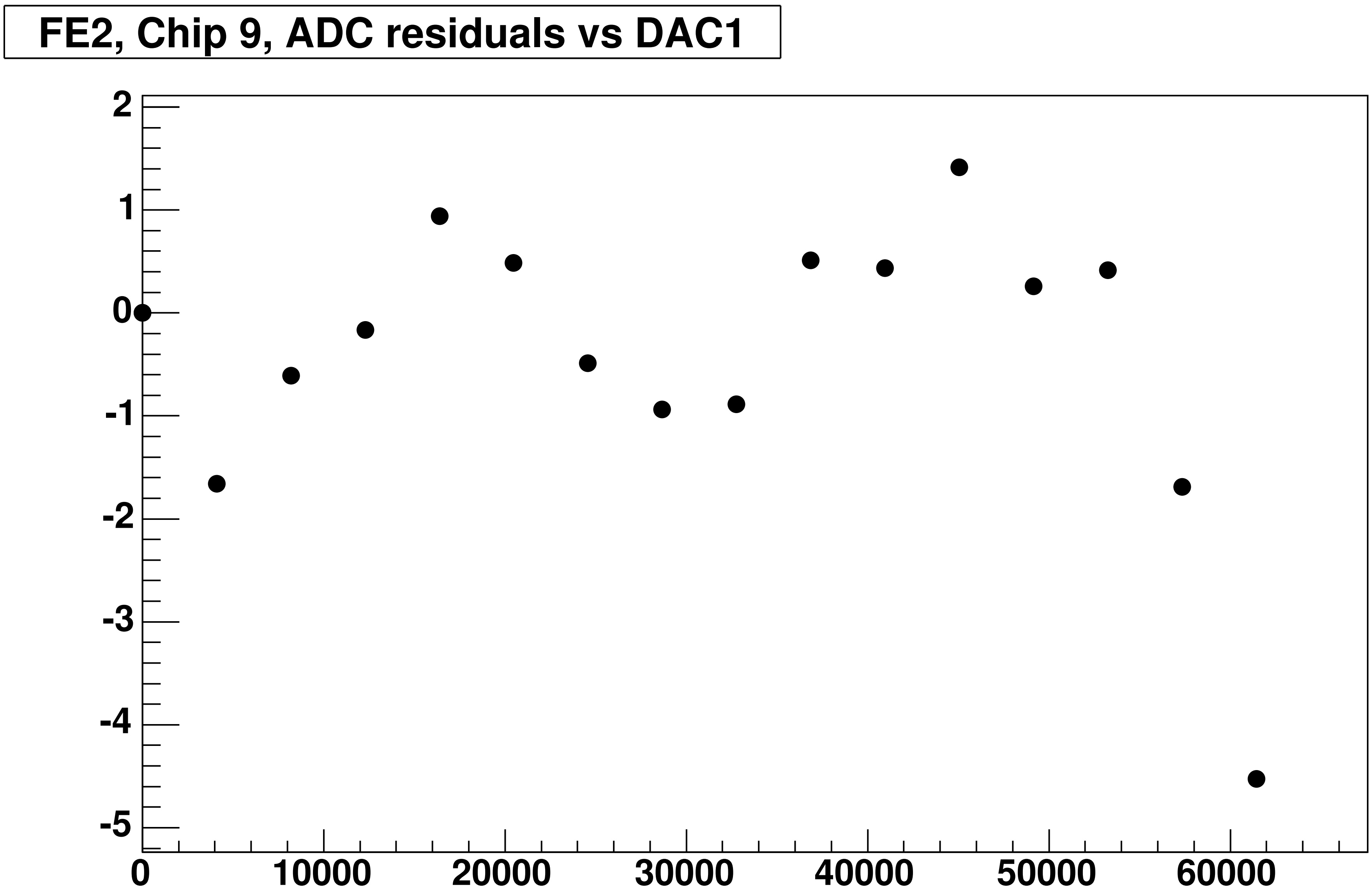
FE2, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

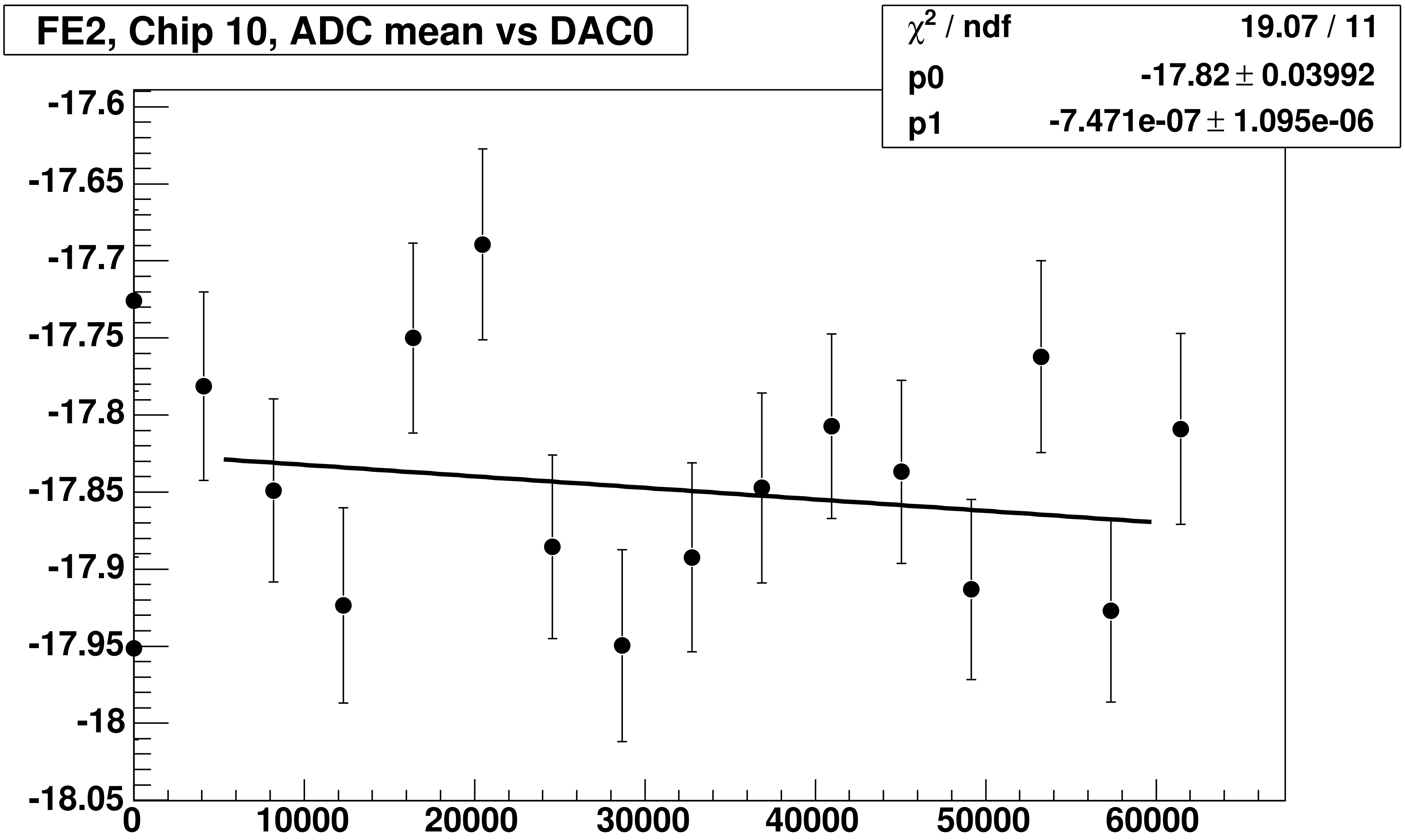

FE2, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE2, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1431 / 11
p0 -11.37 ± 0.04336
p1 0.4509 ± 1.393e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

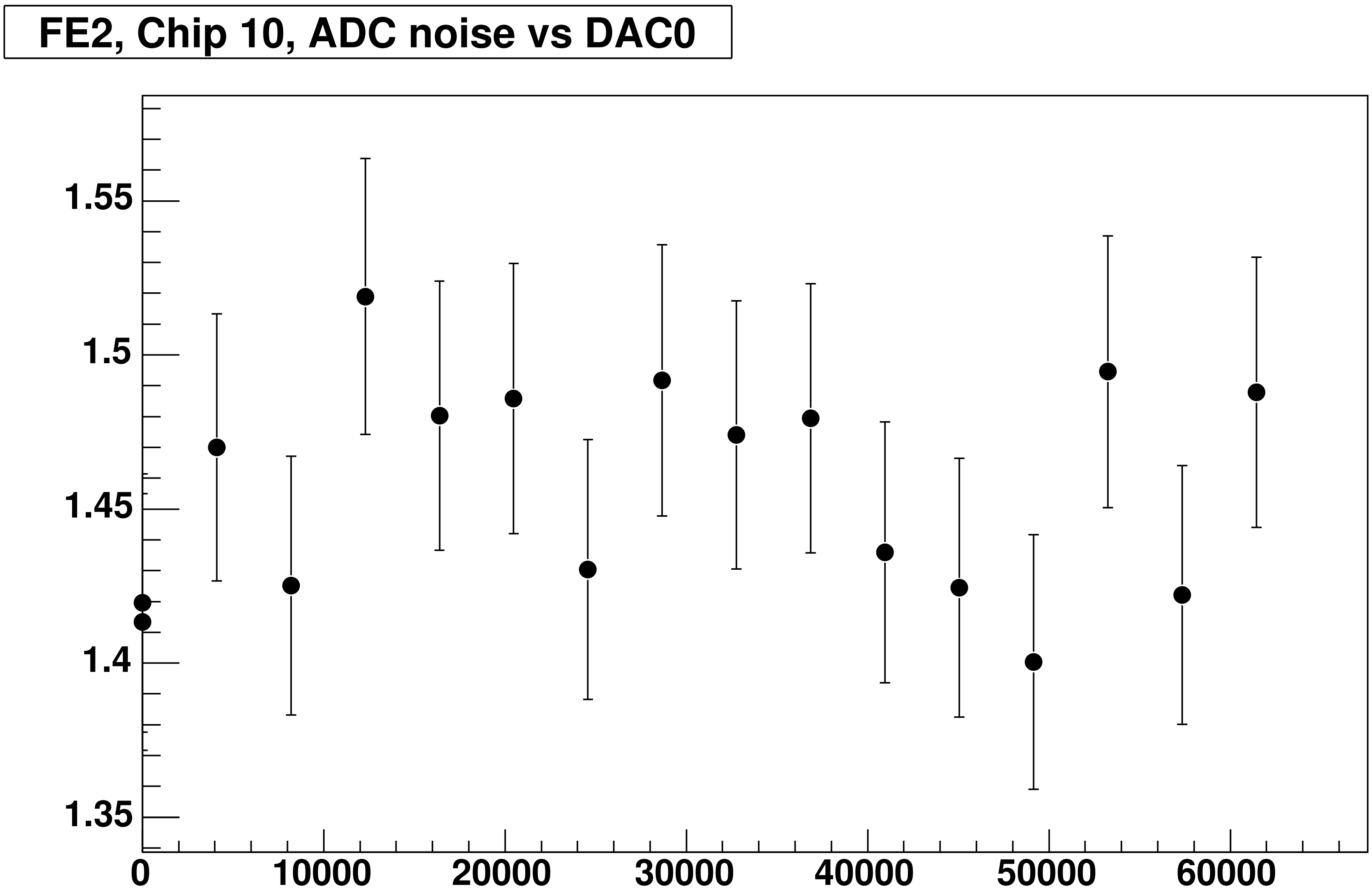


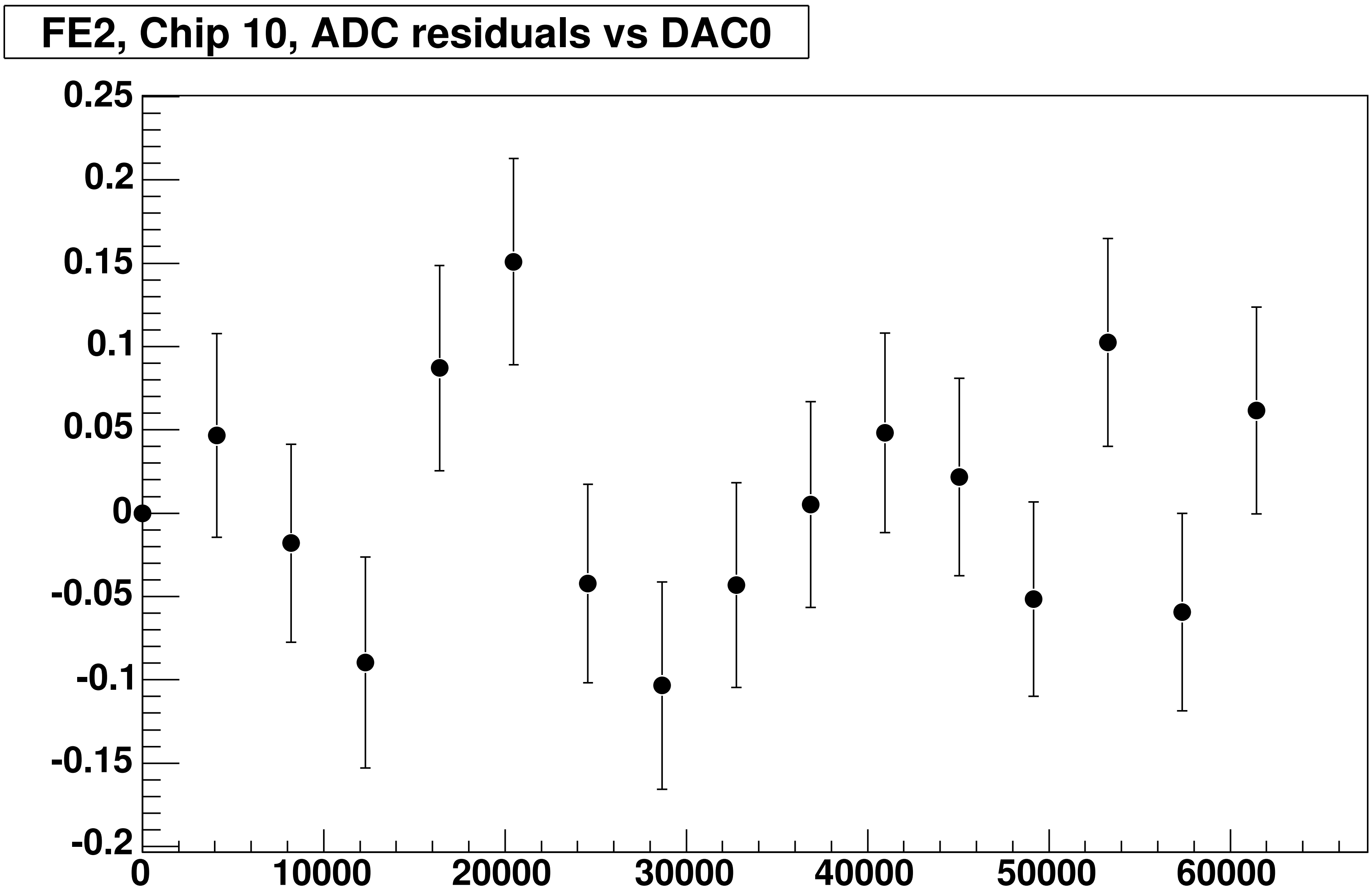
FE2, Chip 9, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

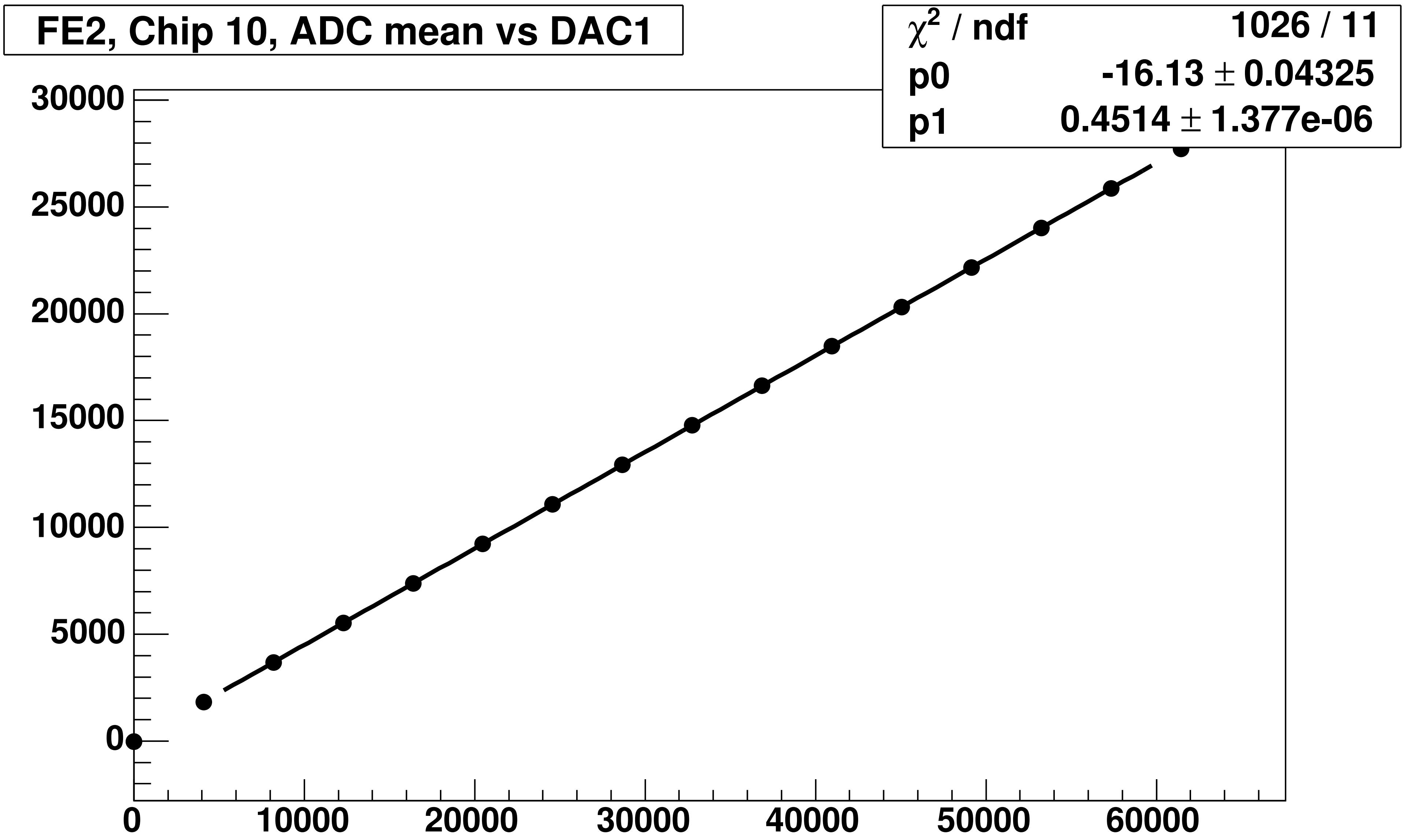

FE2, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

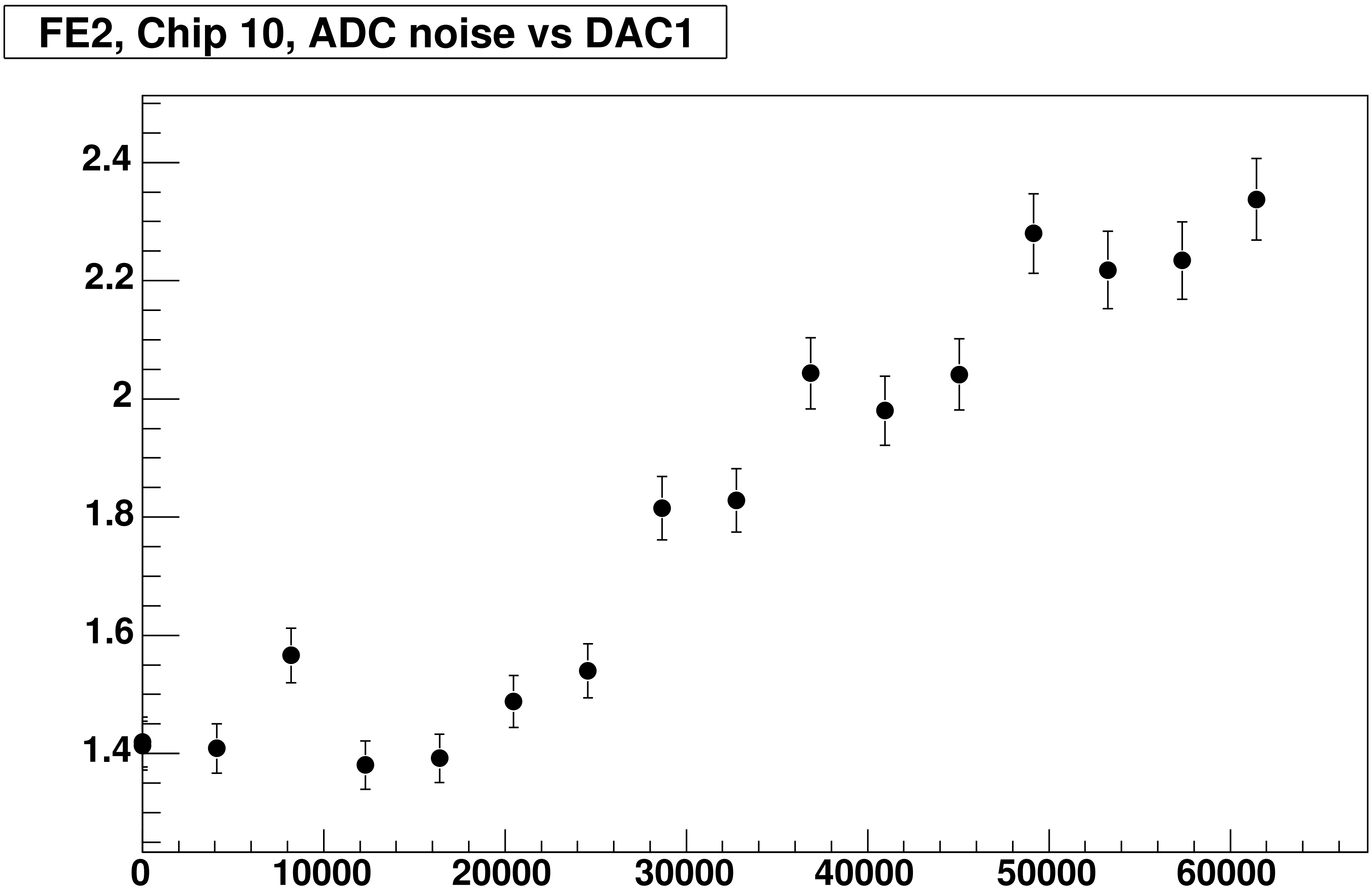


FE2, Chip 10, ADC mean vs DAC0
χ^2 / ndf 19.07 / 11
p0 -17.82 ± 0.03992
p1 -7.471e-07 ± 1.095e-06
-17.6
-17.65
-17.7
-17.75
-17.8
-17.85
-17.9
-17.95
-18
-18.05
0
10000
20000
30000
40000
50000
60000

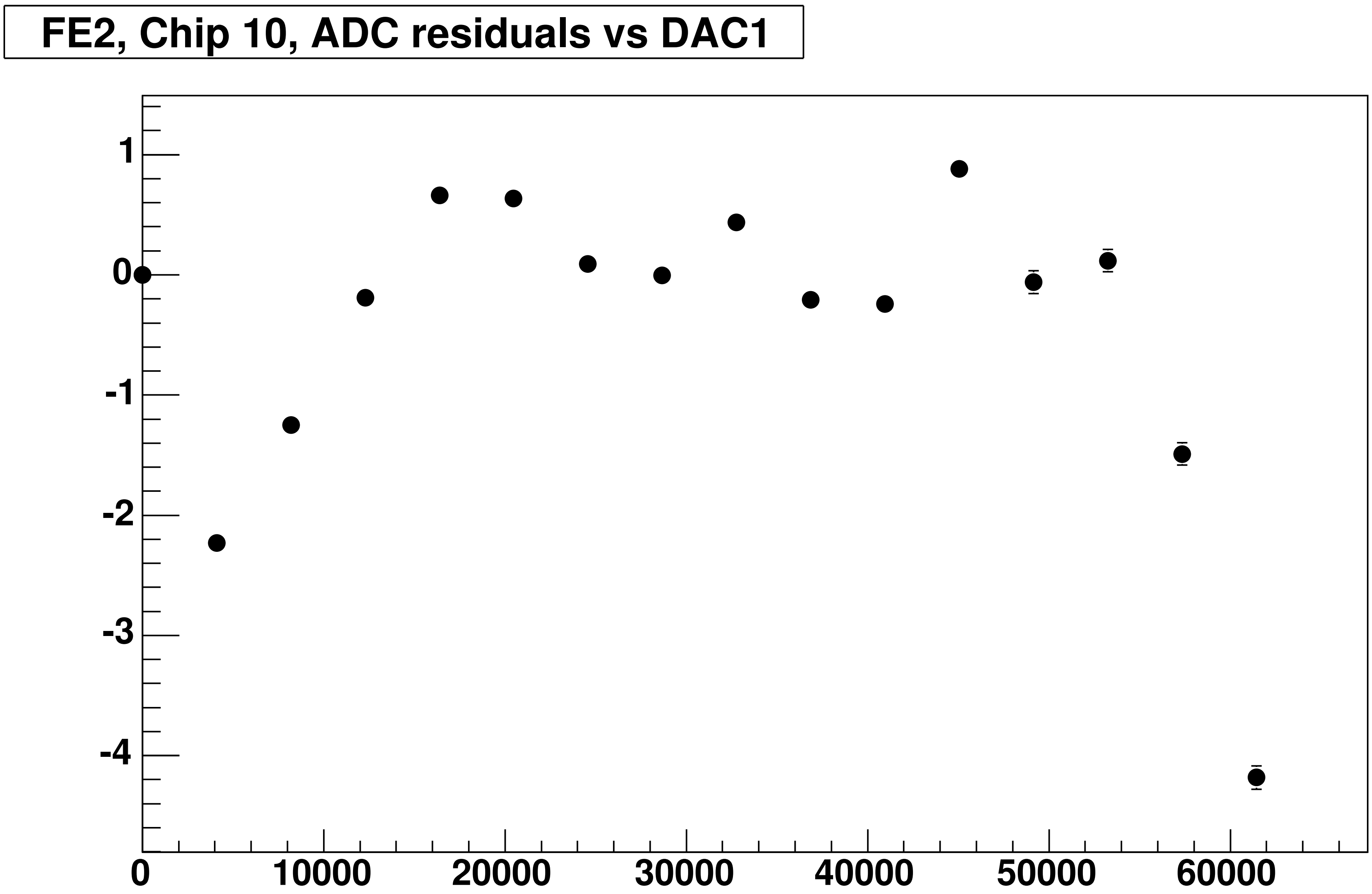

FE2, Chip 10, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

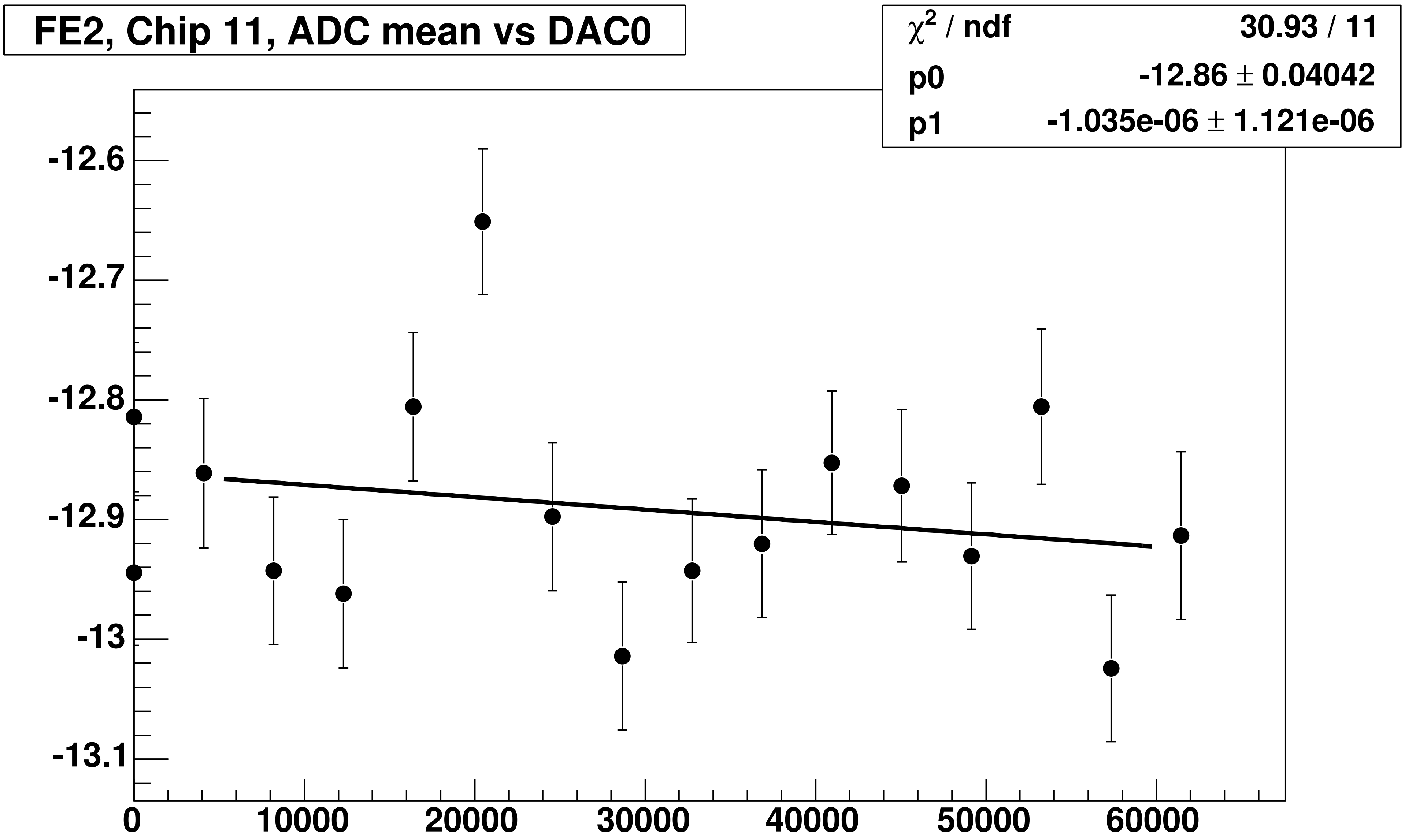

FE2, Chip 10, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE2, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1026 / 11
p0 -16.13 ± 0.04325
p1 0.4514 ± 1.377e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

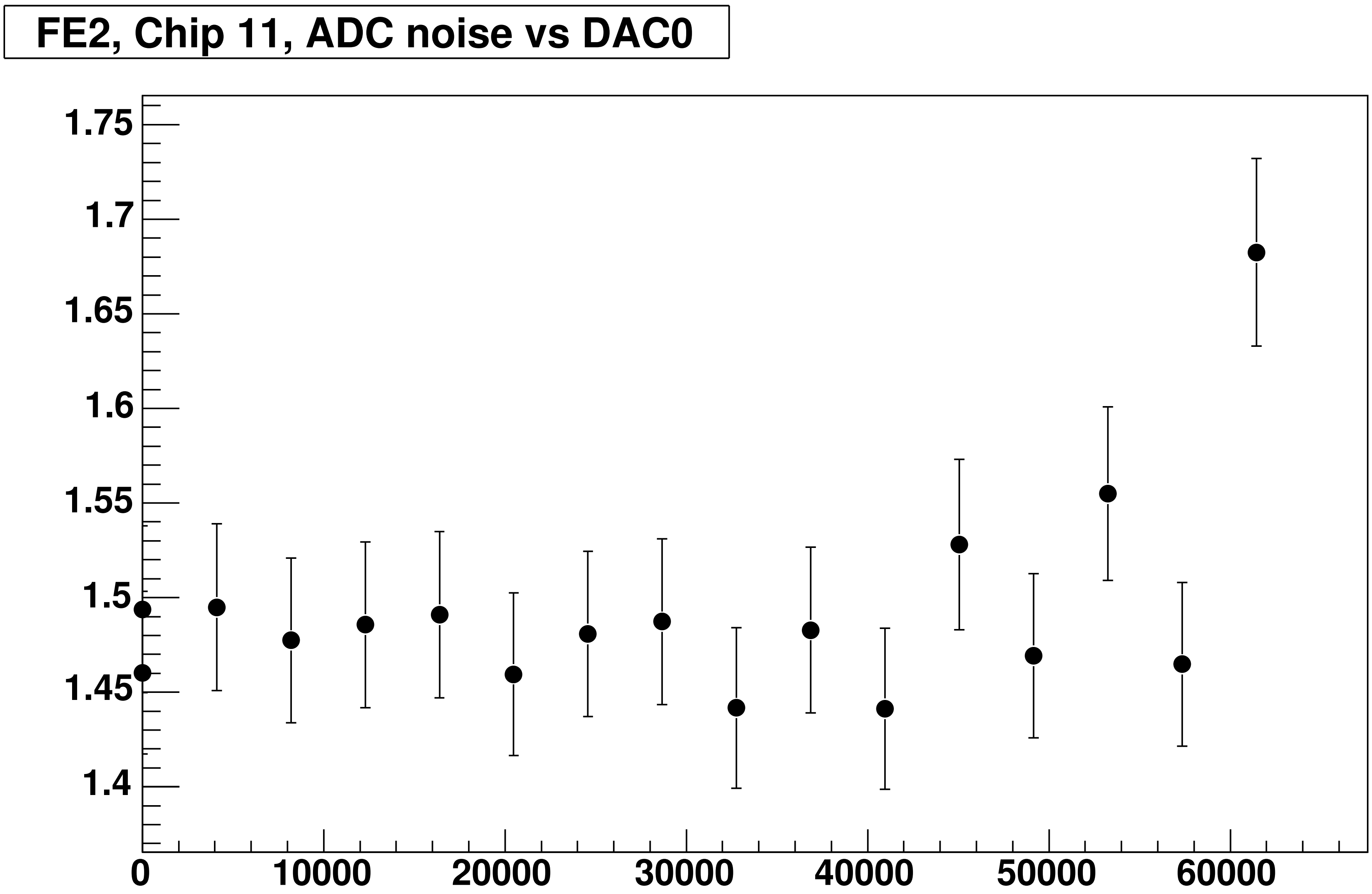


FE2, Chip 10, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

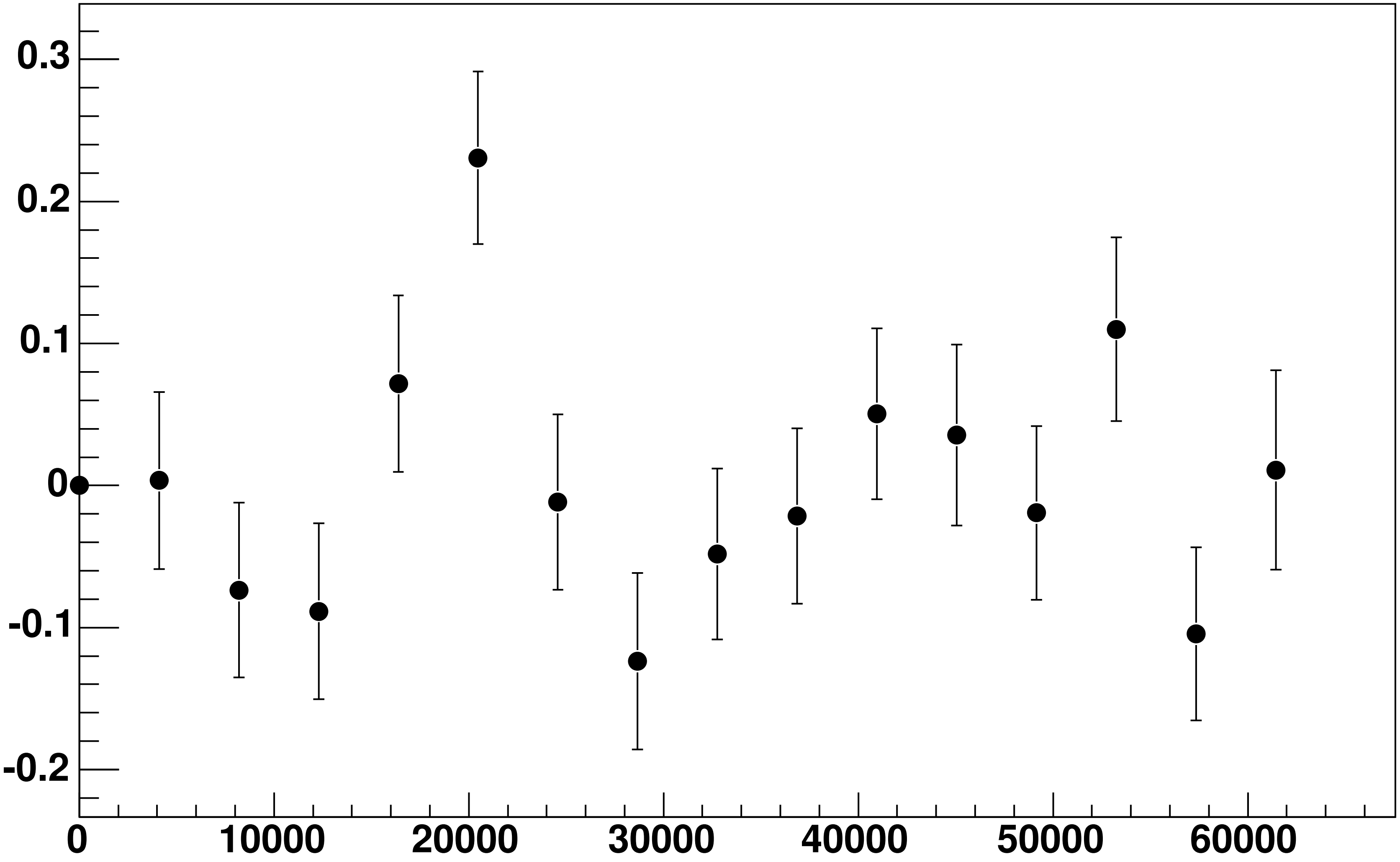


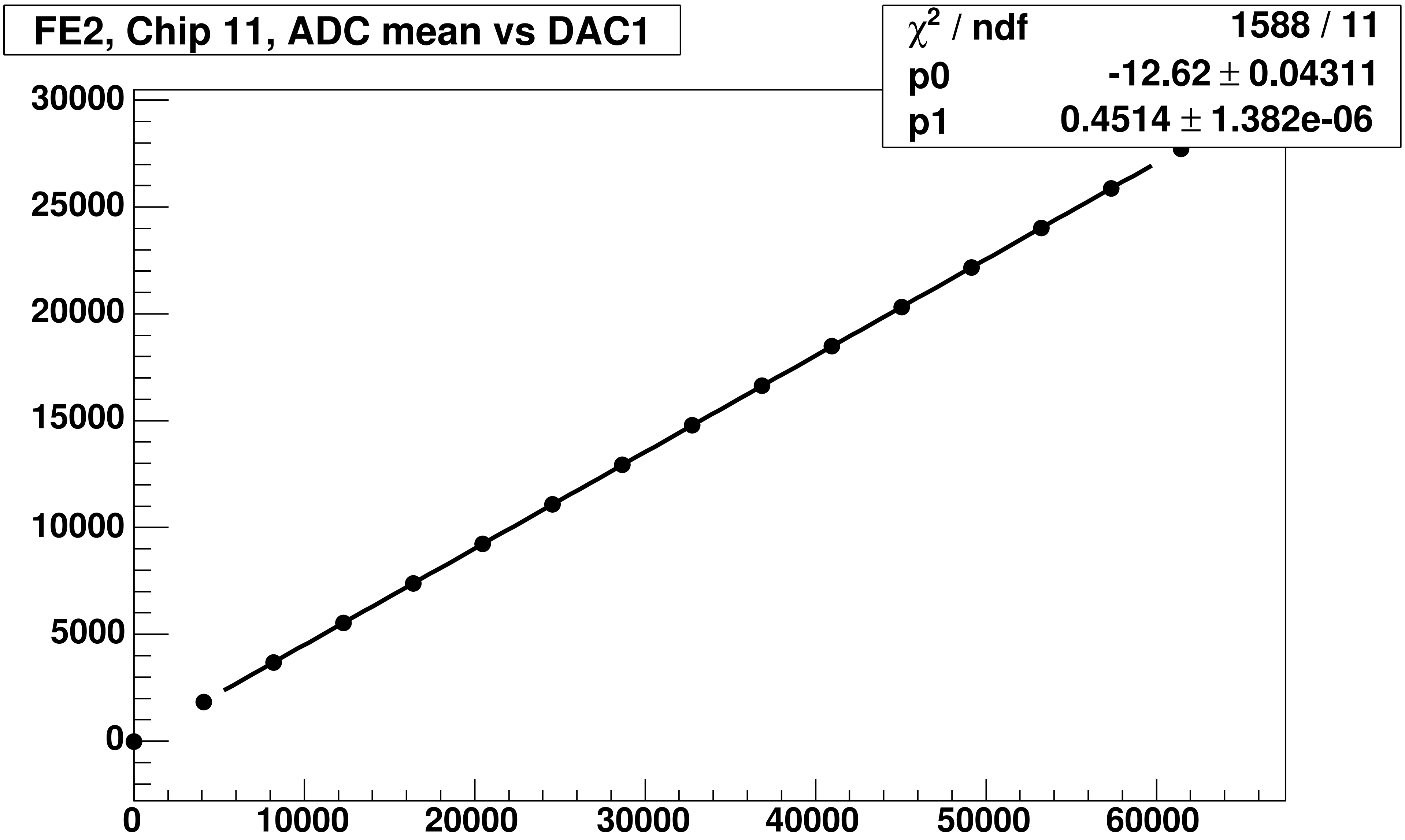
FE2, Chip 11, ADC mean vs DAC0
χ^2 / ndf 30.93 / 11
p0 -12.86 ± 0.04042
p1 -1.035e-06 ± 1.121e-06
-12.6
-12.7
-12.8
-12.9
-13
-13.1
0
10000
20000
30000
40000
50000
60000

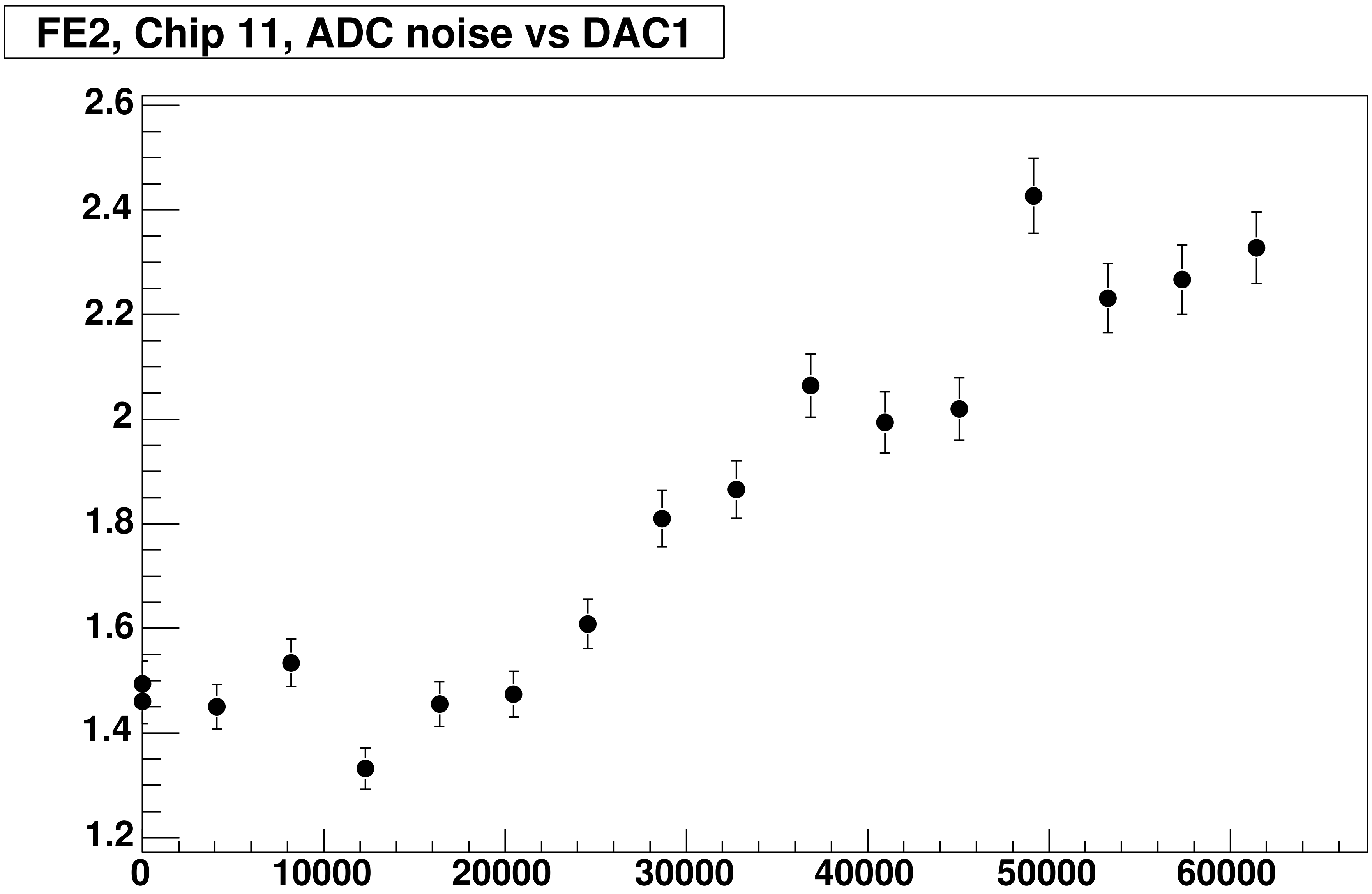


FE2, Chip 11, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

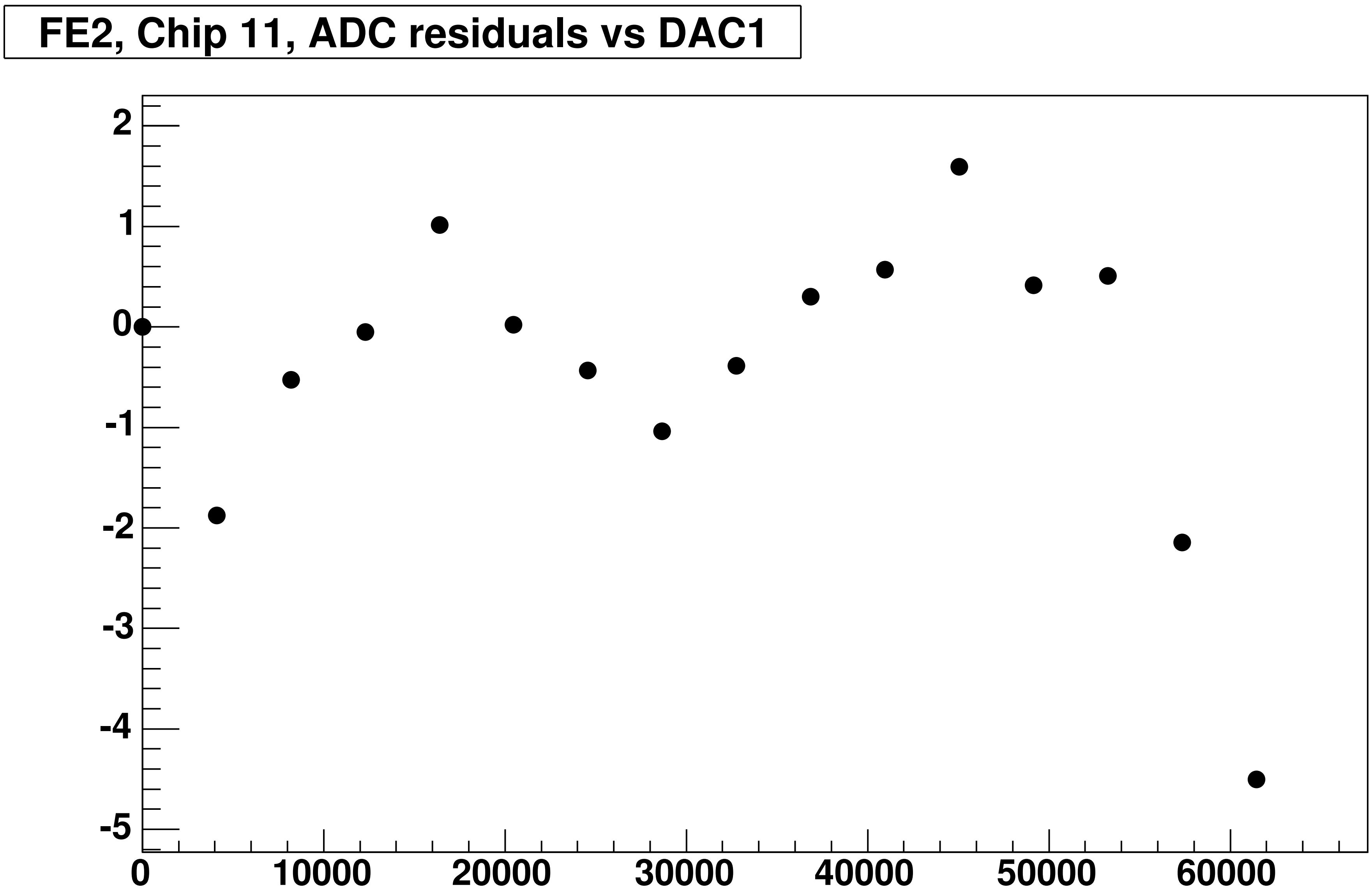
FE2, Chip 11, ADC residuals vs DAC0



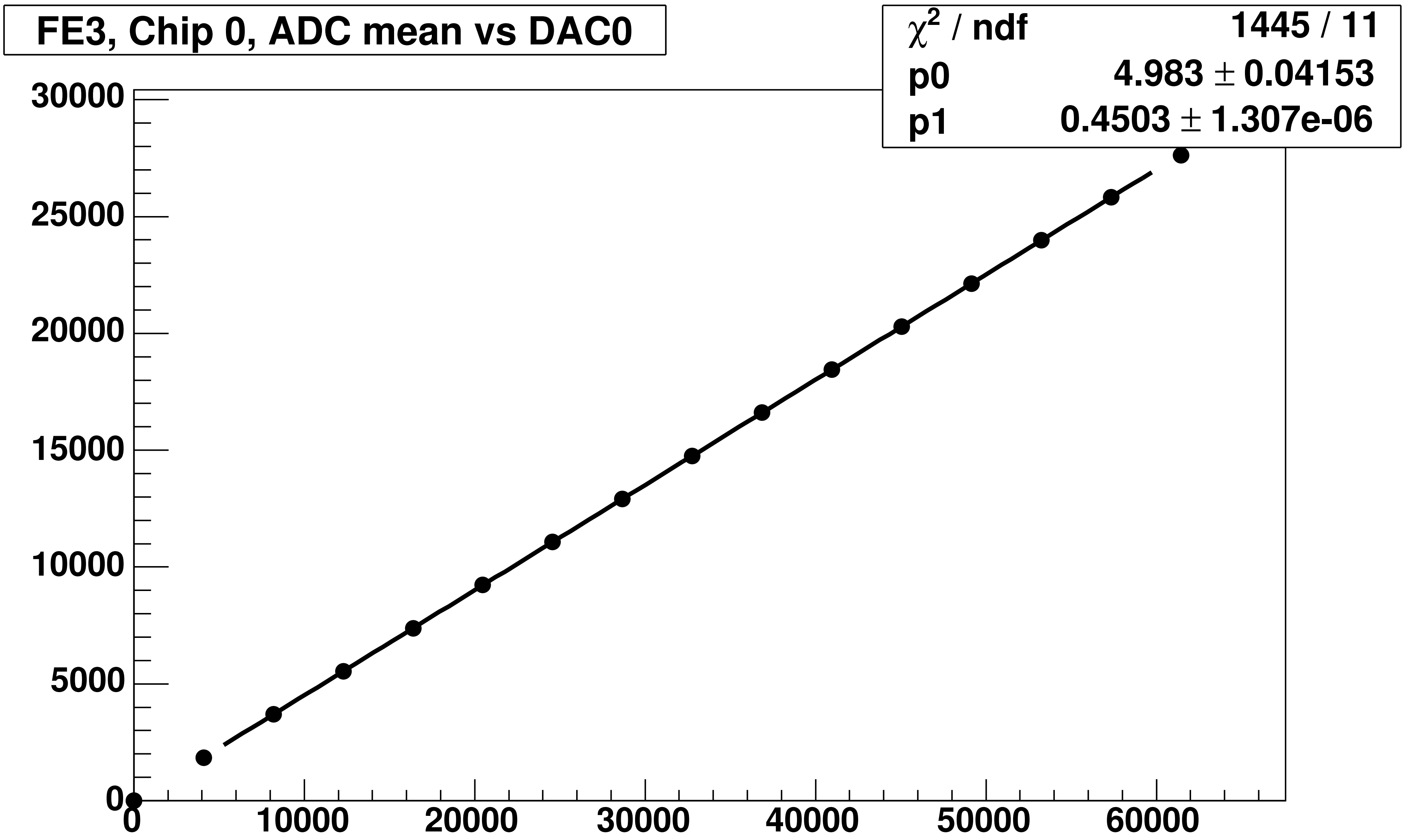

FE2, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1588 / 11
p0 -12.62 ± 0.04311
p1 0.4514 ± 1.382e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



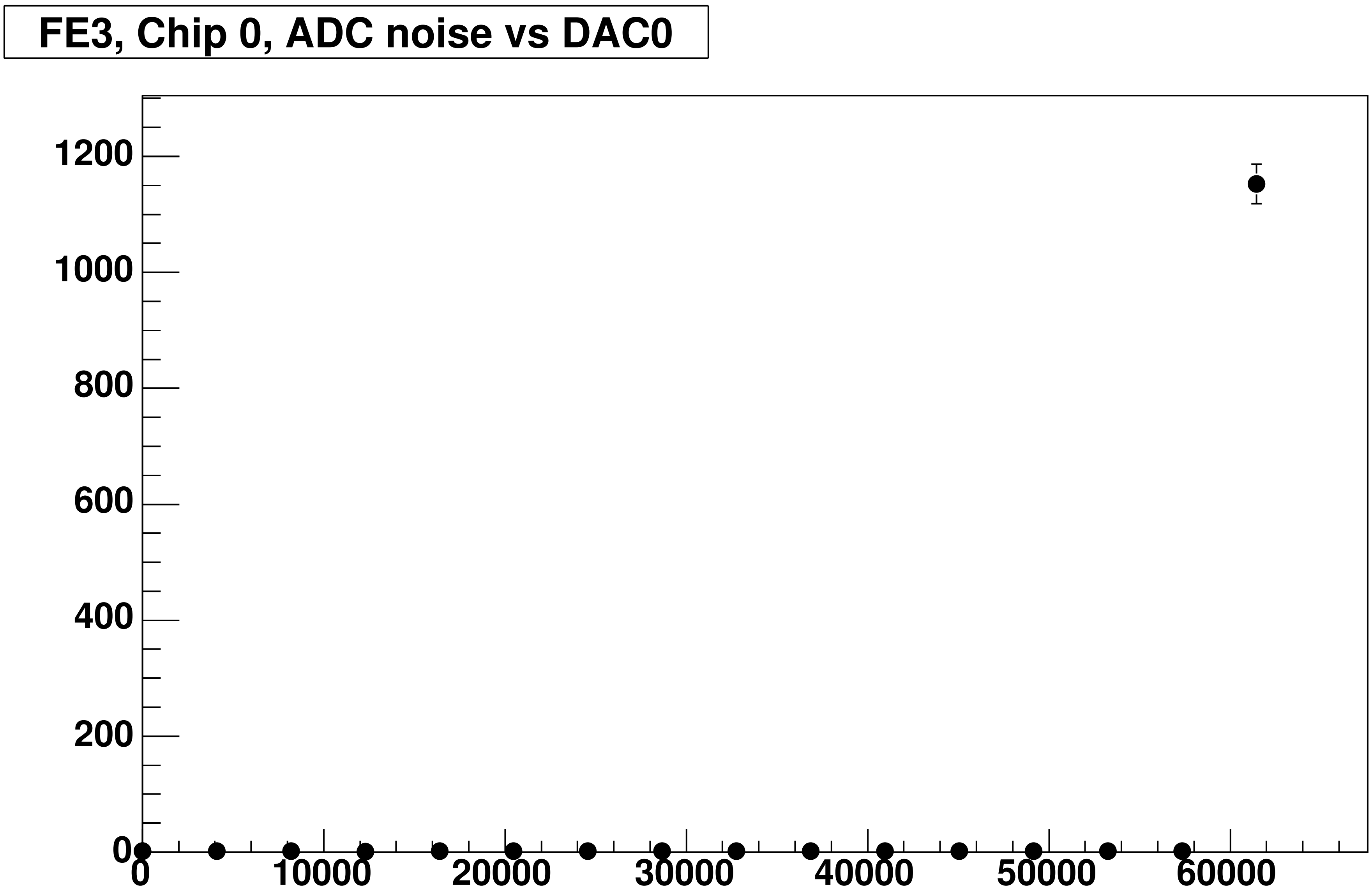
FE2, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



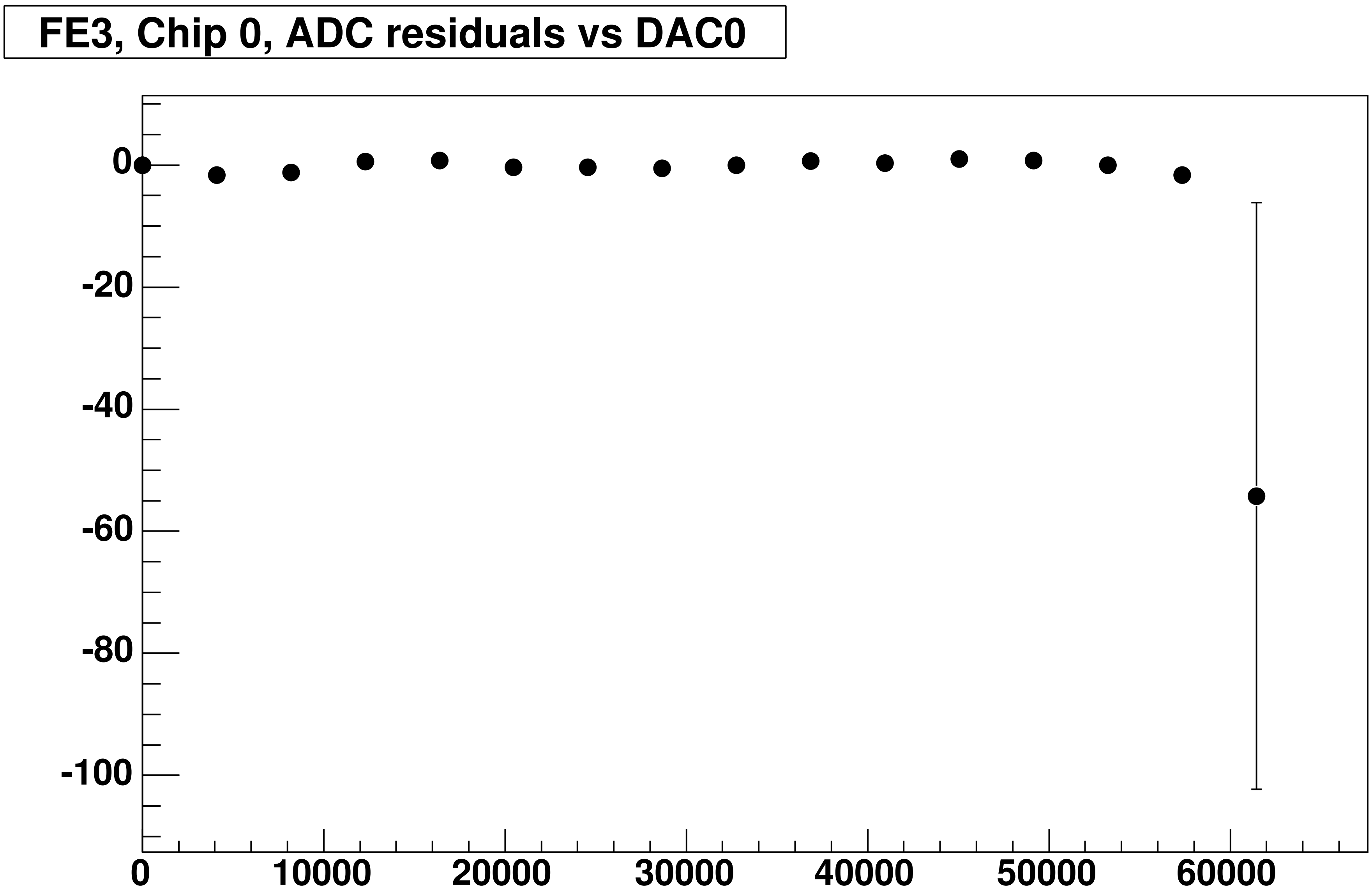
FE2, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

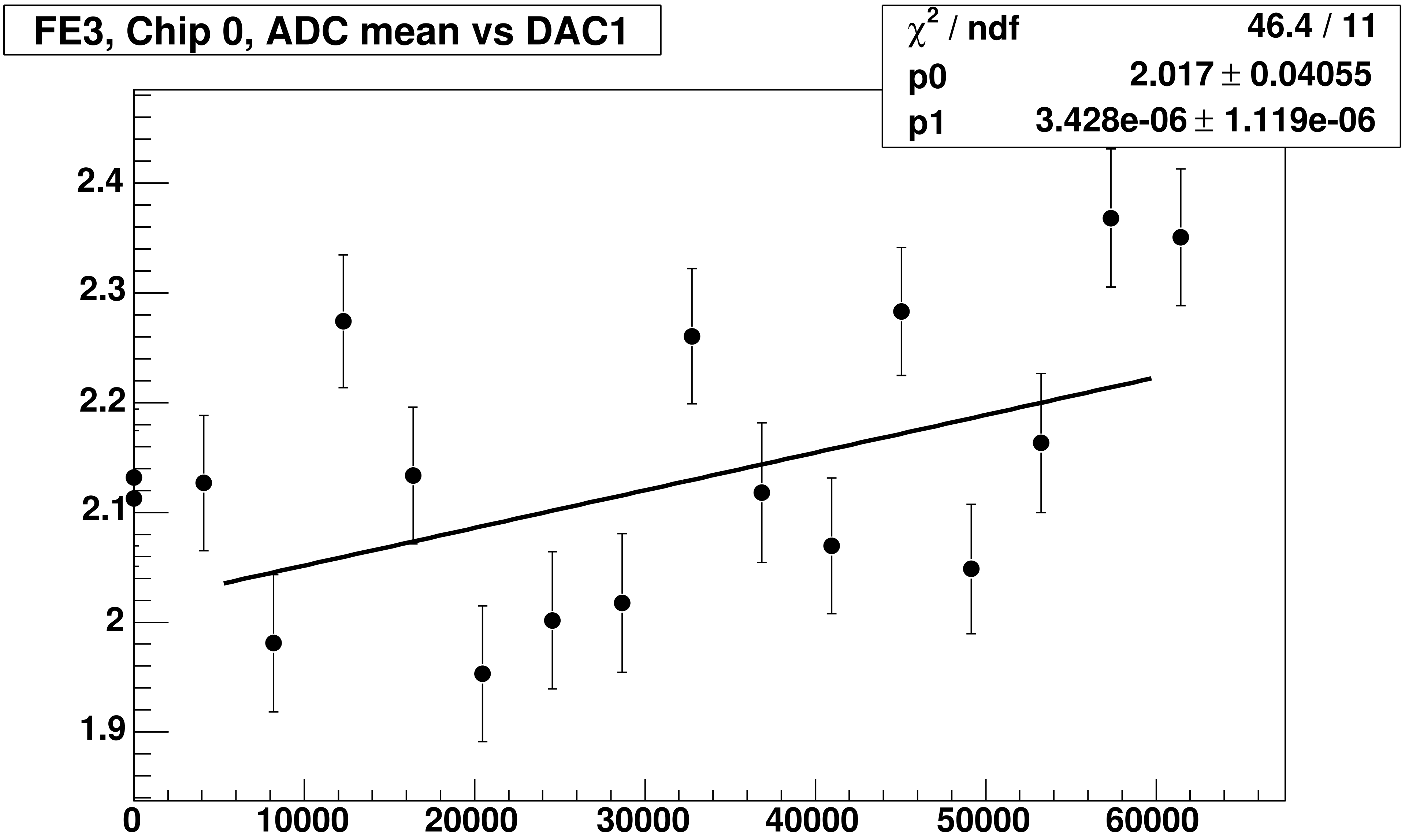


FE3, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1445 / 11
p0 4.983 ± 0.04153
p1 0.4503 ± 1.307e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

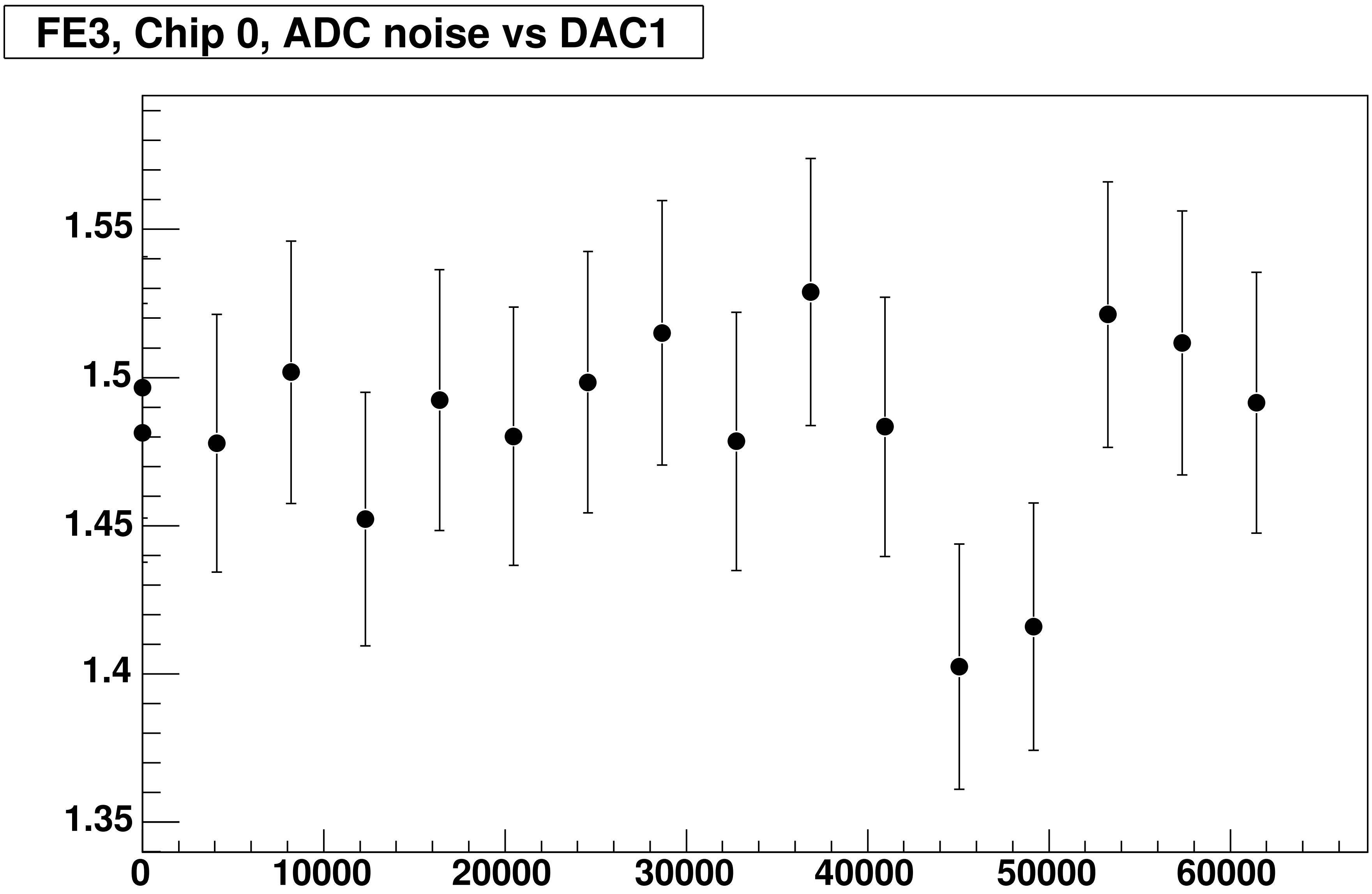


FE3, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

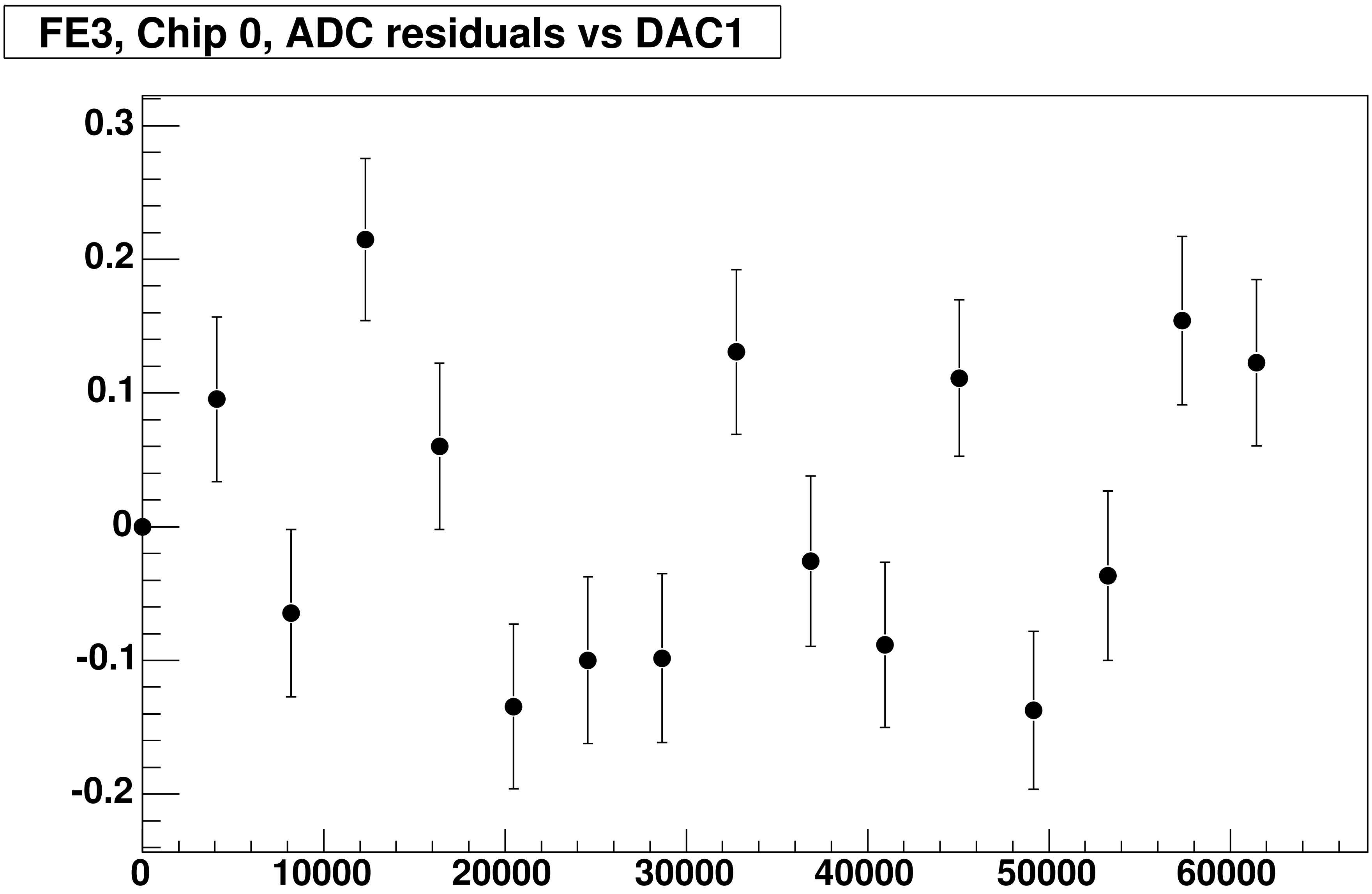

FE3, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



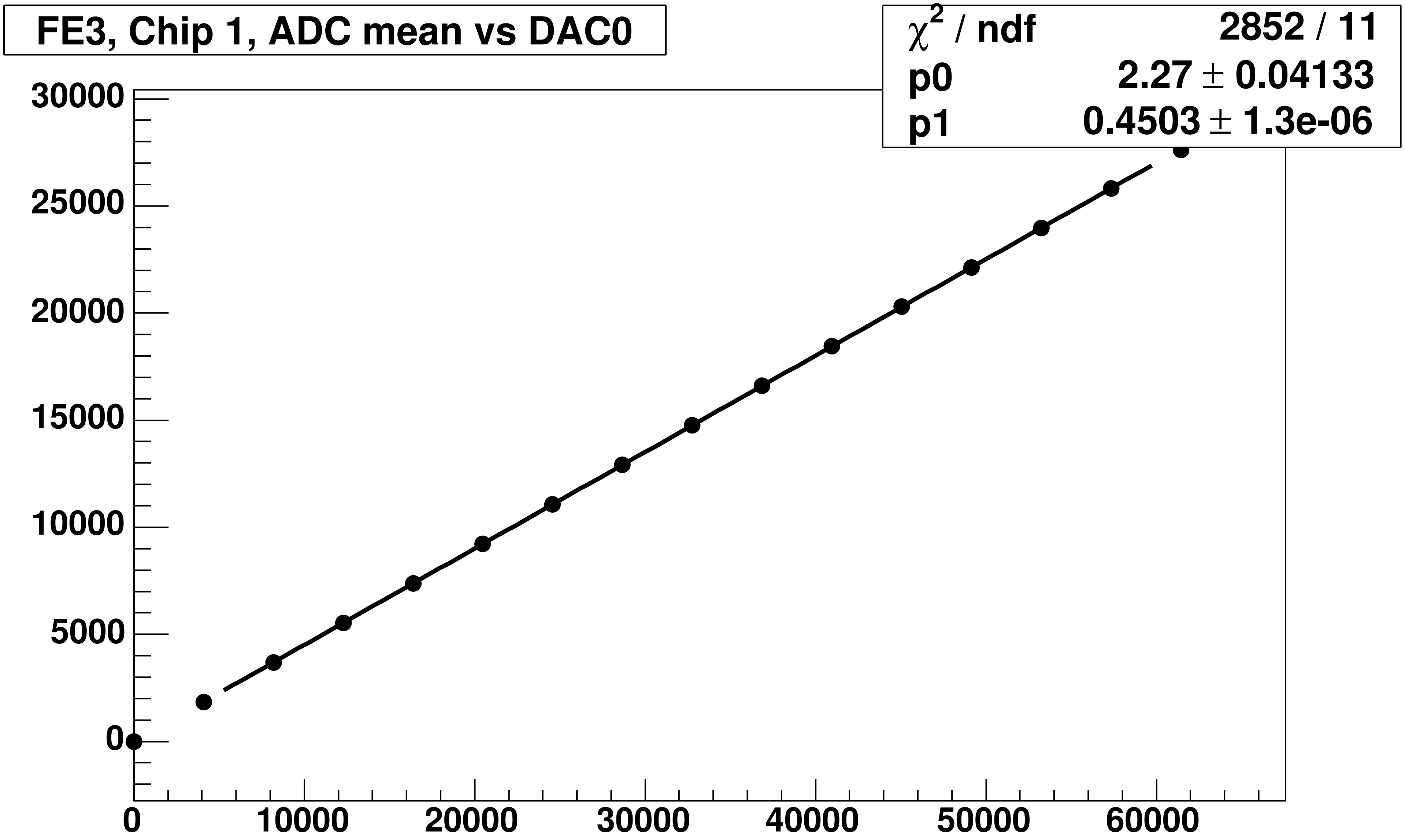
FE3, Chip 0, ADC mean vs DAC1
χ² / ndf 46.4 / 11
p0 2.017 ± 0.04055
p1 3.428e-06 ± 1.119e-06
2.4
2.3
2.2
2.1
2
1.9
0
10000
20000
30000
40000
50000
60000

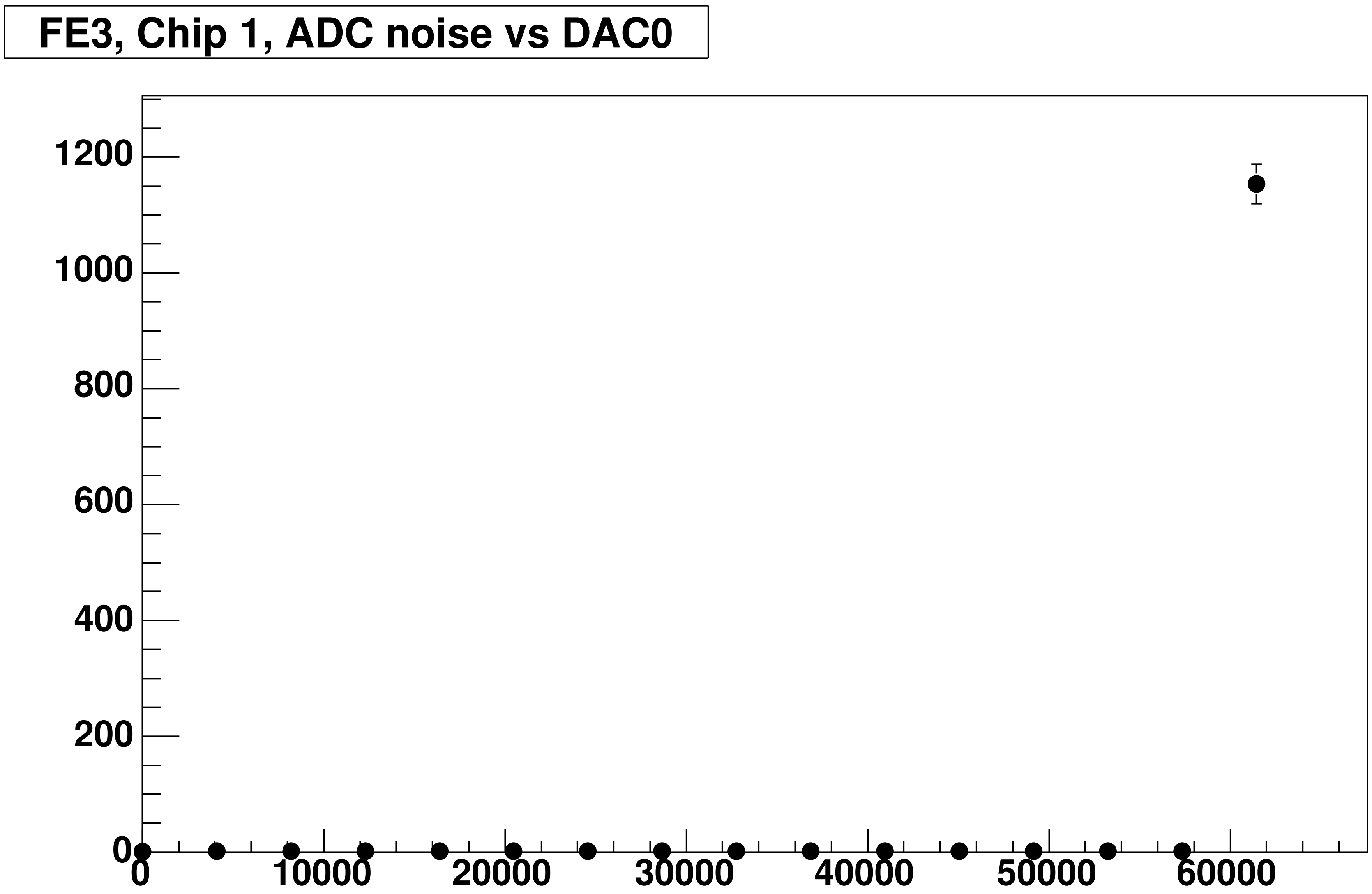


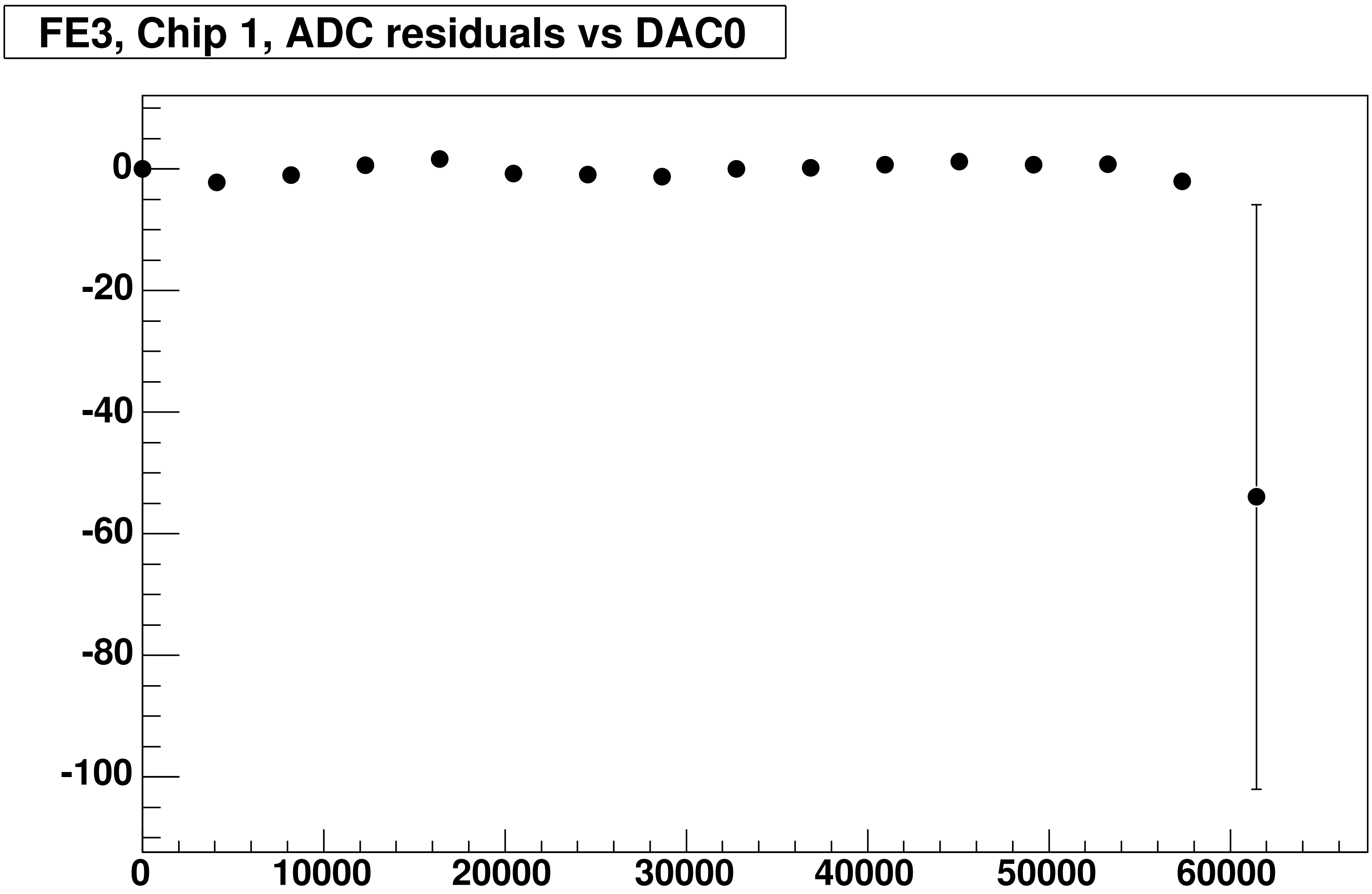
FE3, Chip 0, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



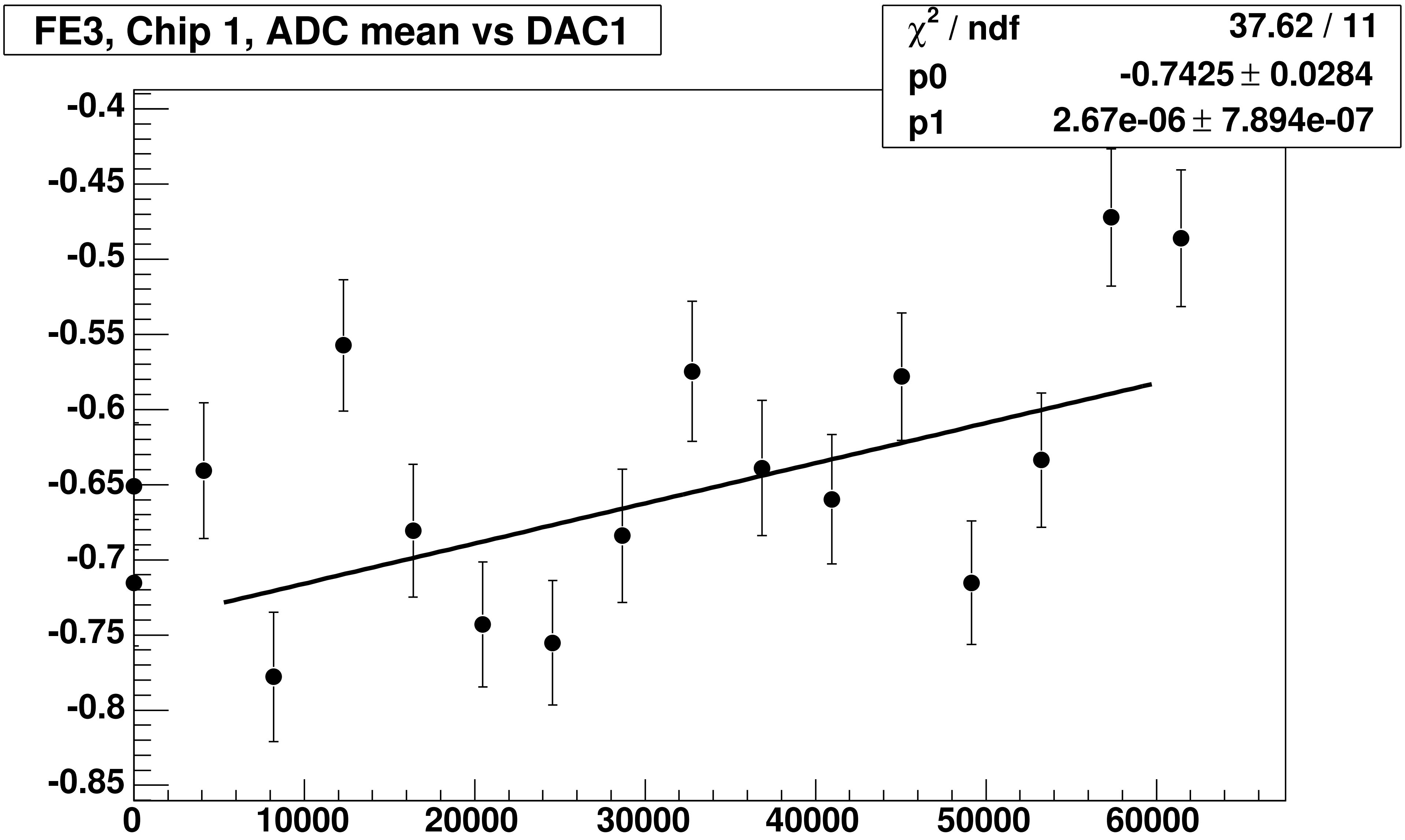
FE3, Chip 0, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE3, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2852 / 11
p0 2.27 ± 0.04133
p1 0.4503 ± 1.3e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

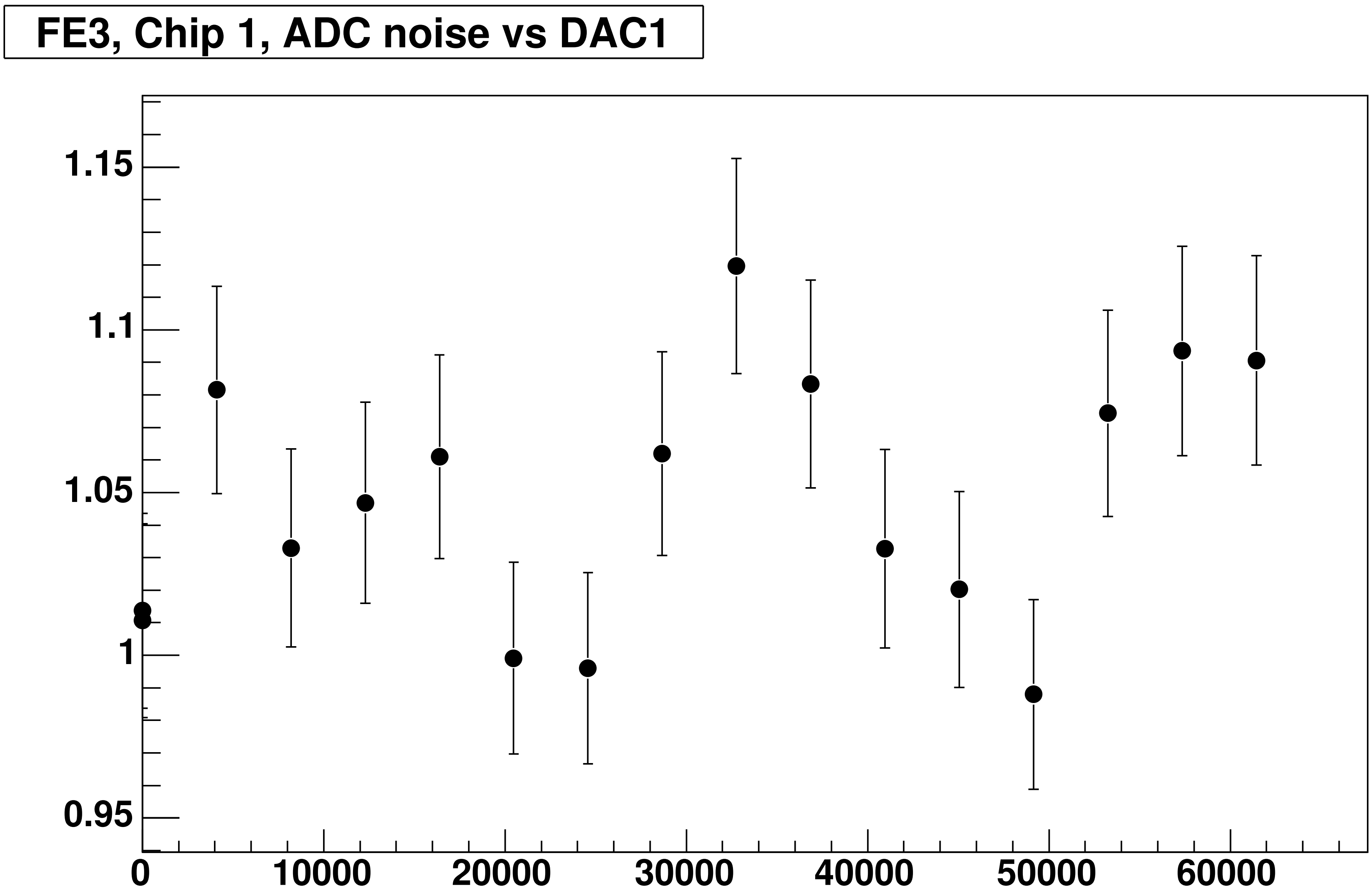

FE3, Chip 1, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000



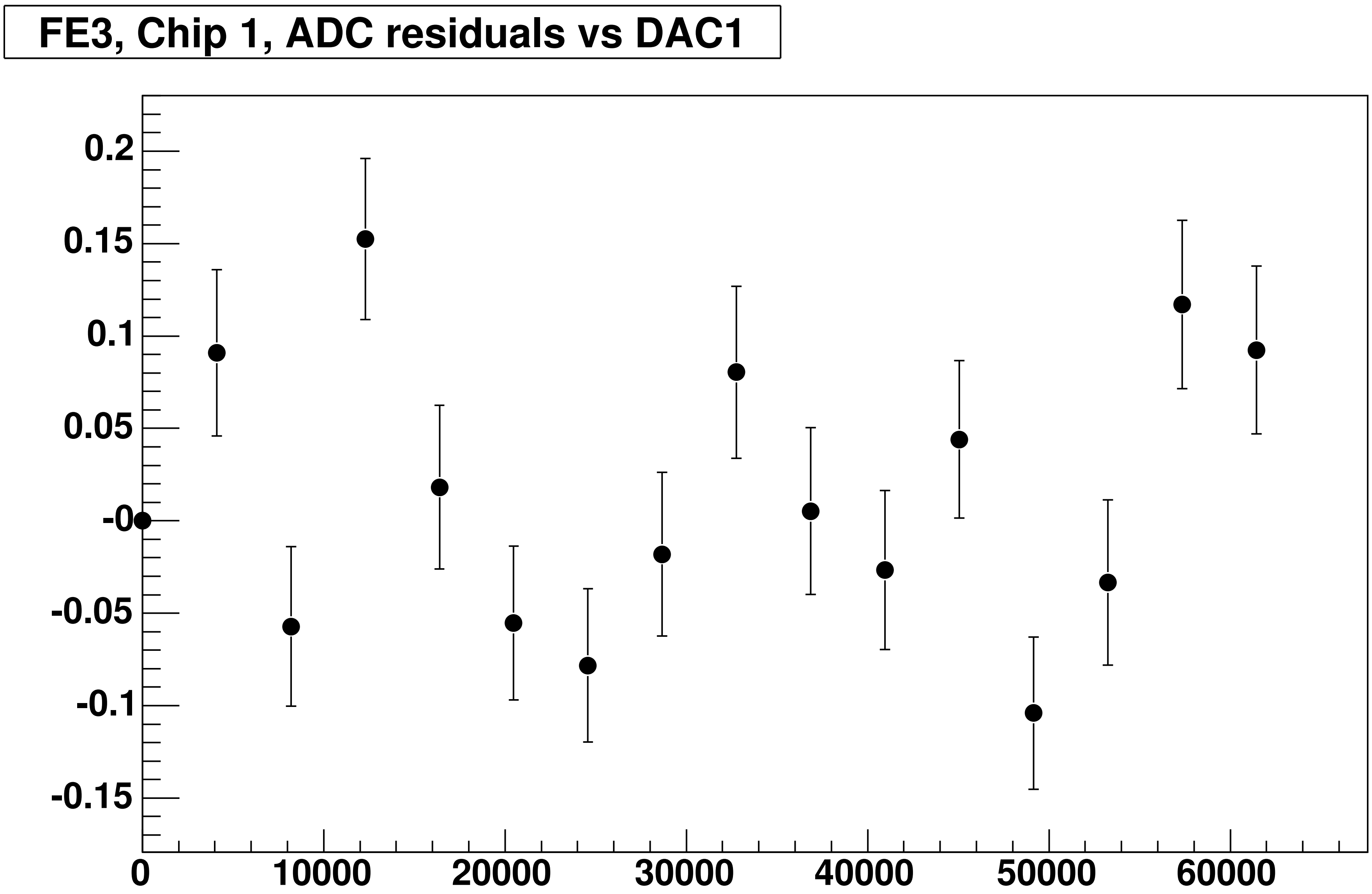
FE3, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



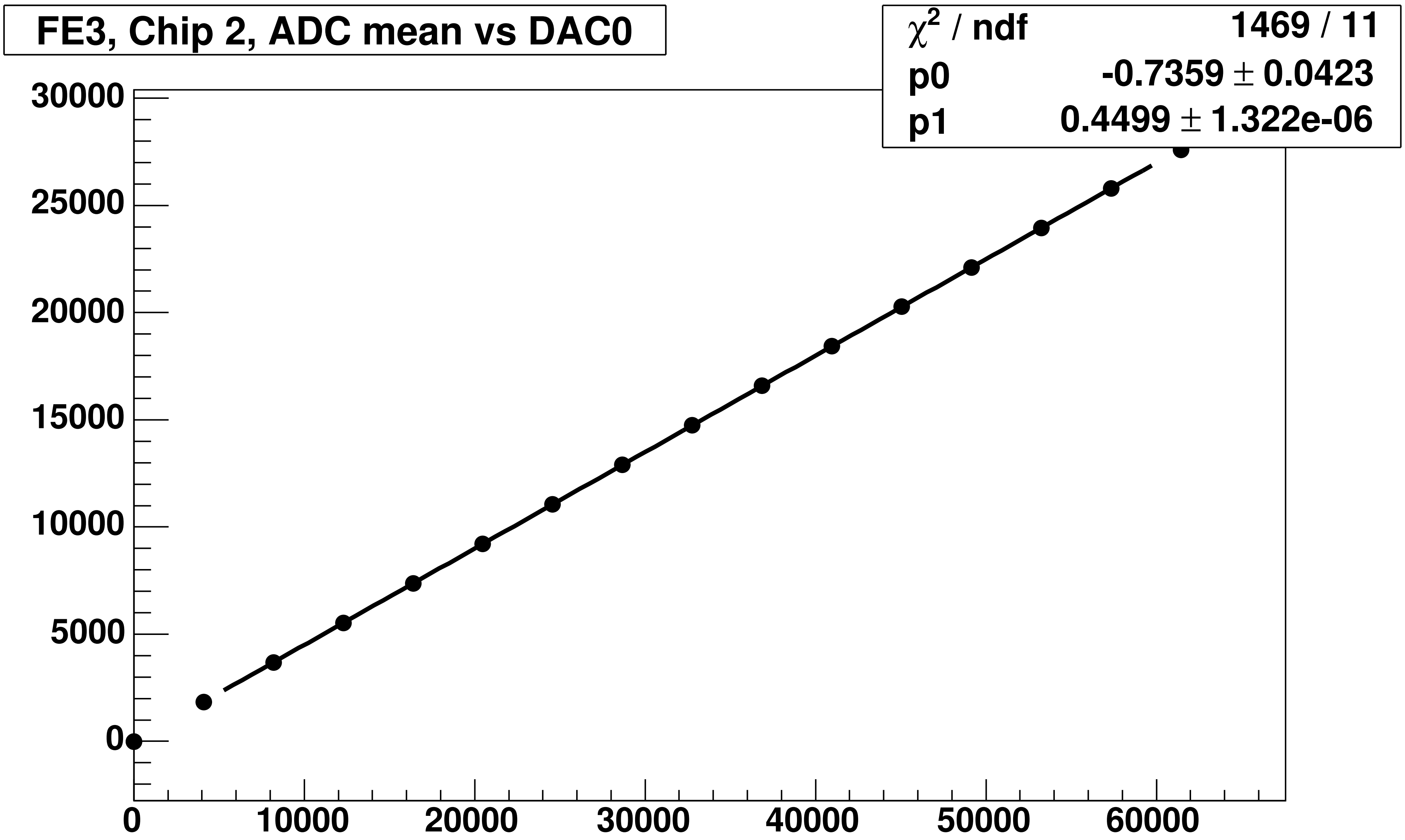
FE3, Chip 1, ADC mean vs DAC1
χ^2 / ndf 37.62 / 11
p0 -0.7425 ± 0.0284
p1 2.67e-06 ± 7.894e-07
-0.4
-0.45
-0.5
-0.55
-0.6
-0.65
-0.7
-0.75
-0.8
-0.85
0
10000
20000
30000
40000
50000
60000

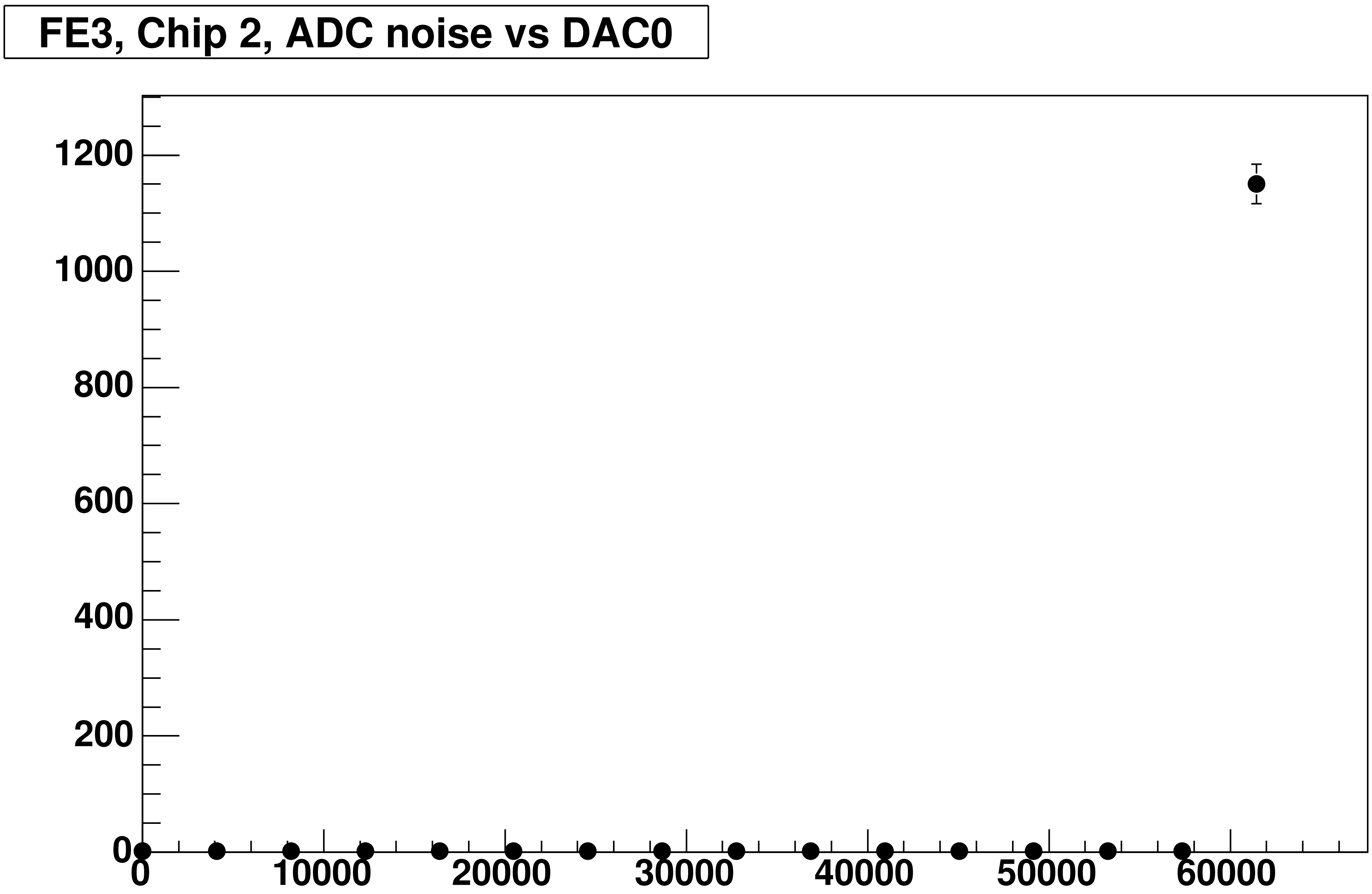


FE3, Chip 1, ADC noise vs DAC1
1.15
1.1
1.05
1
0.95
0
10000
20000
30000
40000
50000
60000

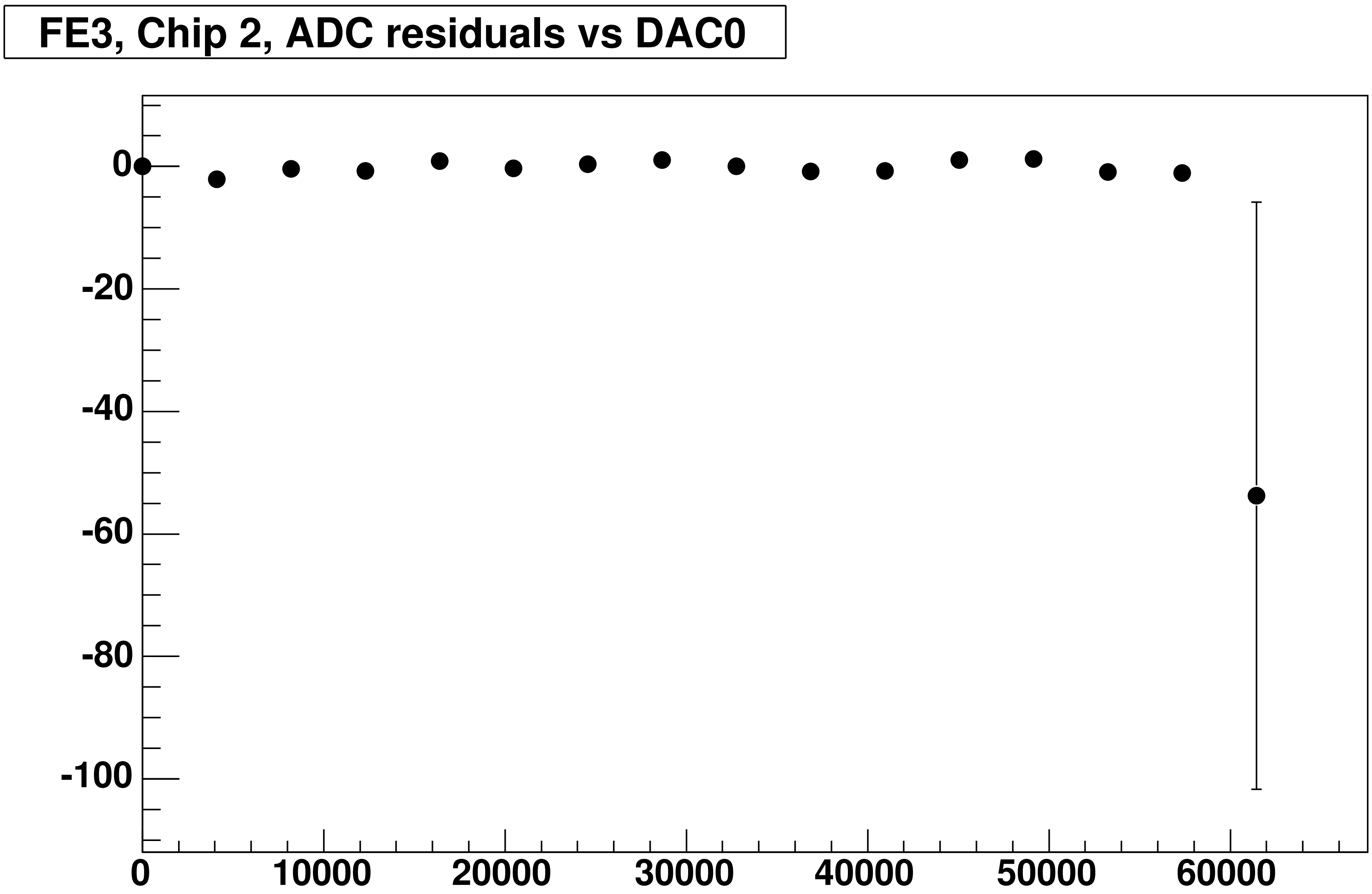


FE3, Chip 1, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

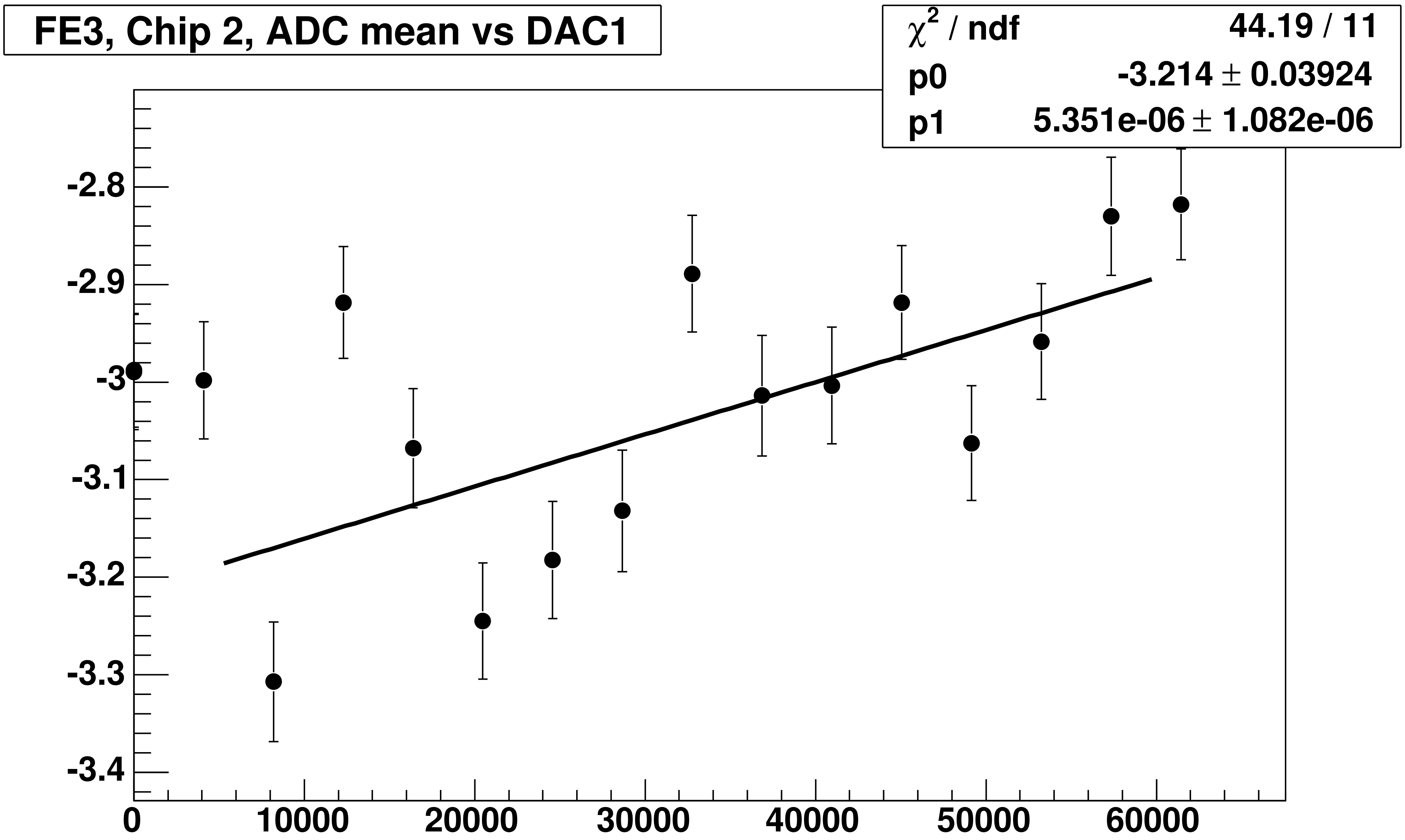

FE3, Chip 2, ADC mean vs DAC0
χ2 / ndf 1469 / 11
p0 -0.7359 ± 0.0423
p1 0.4499 ± 1.322e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

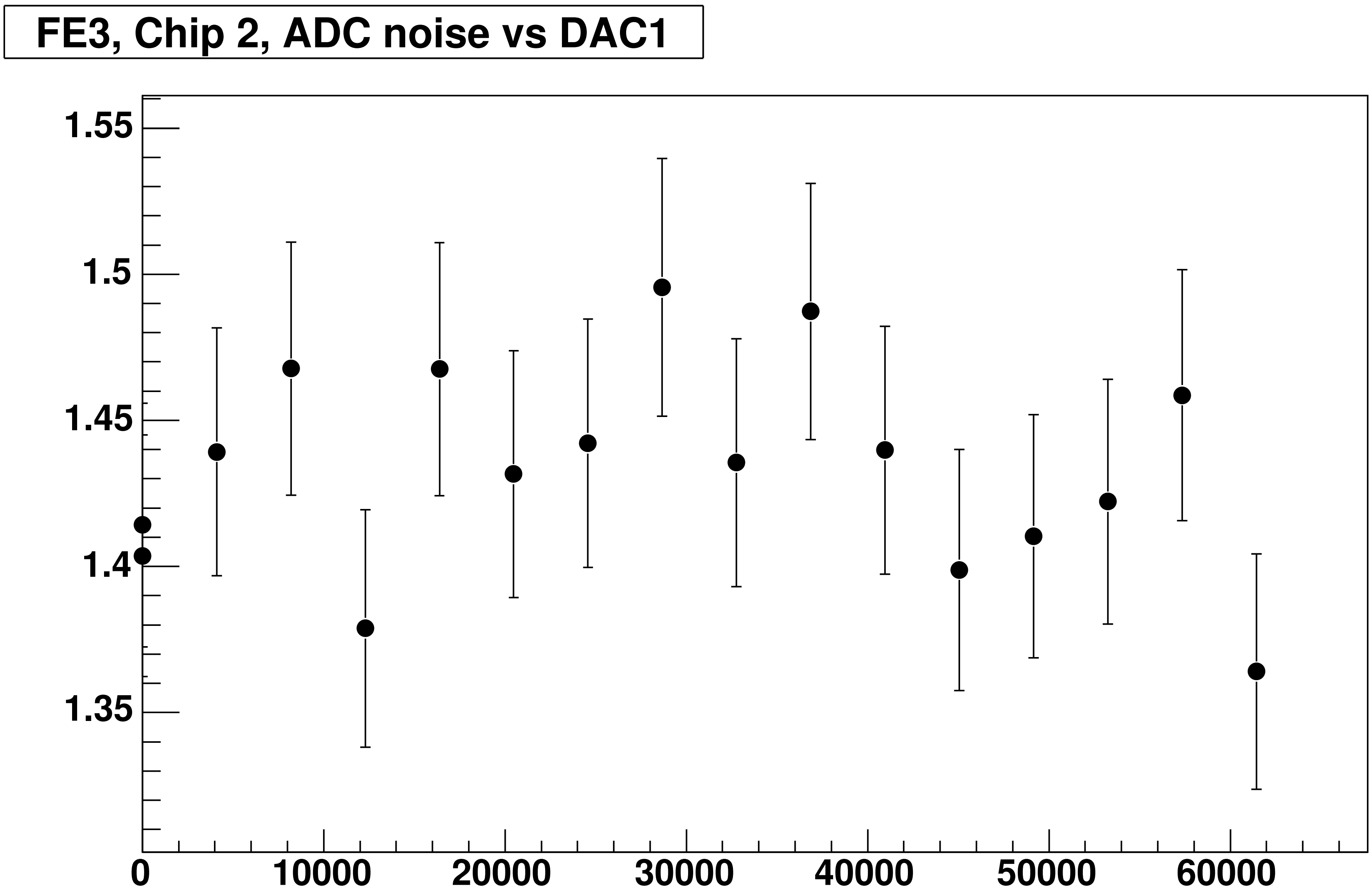


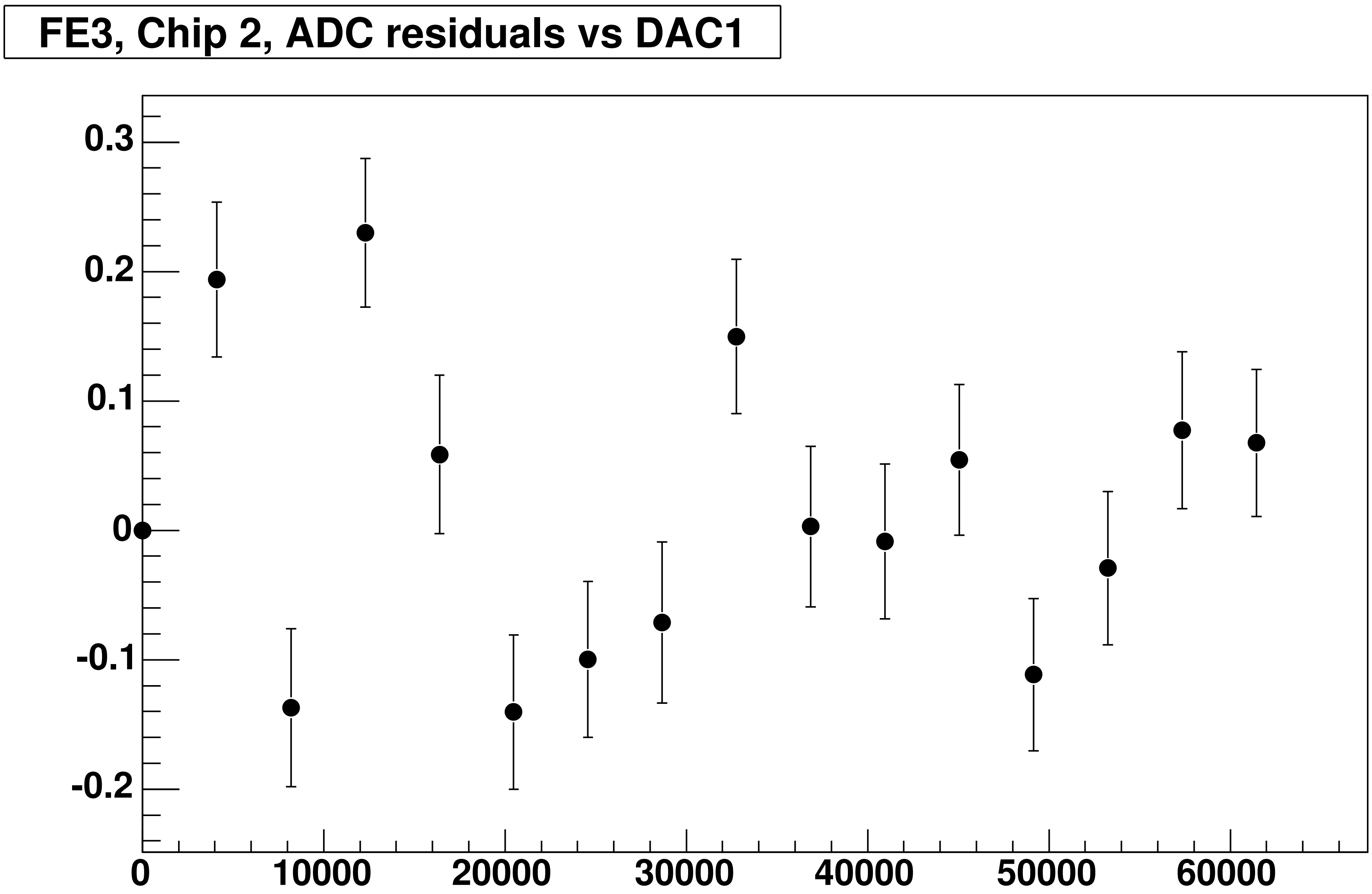
FE3, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

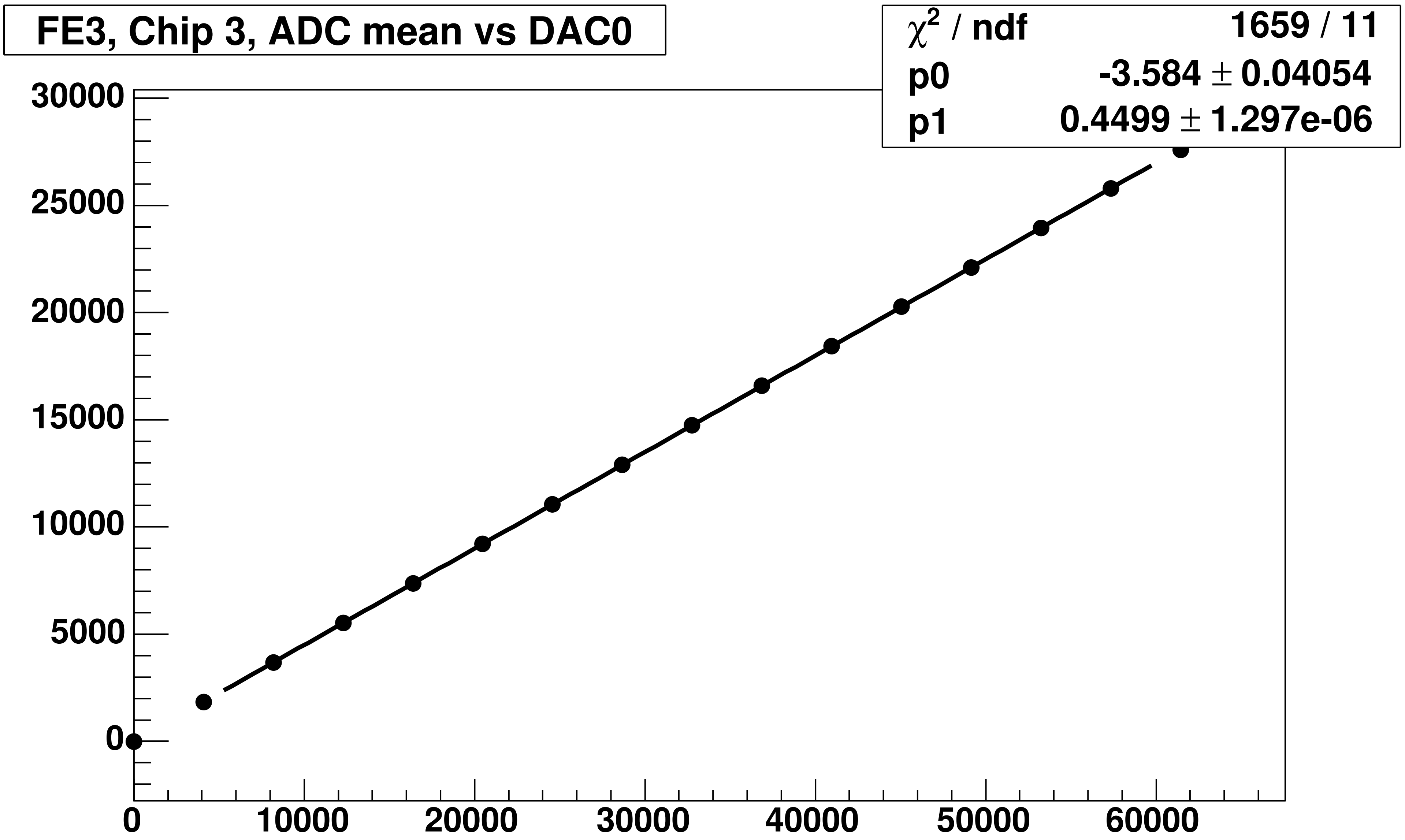


FE3, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

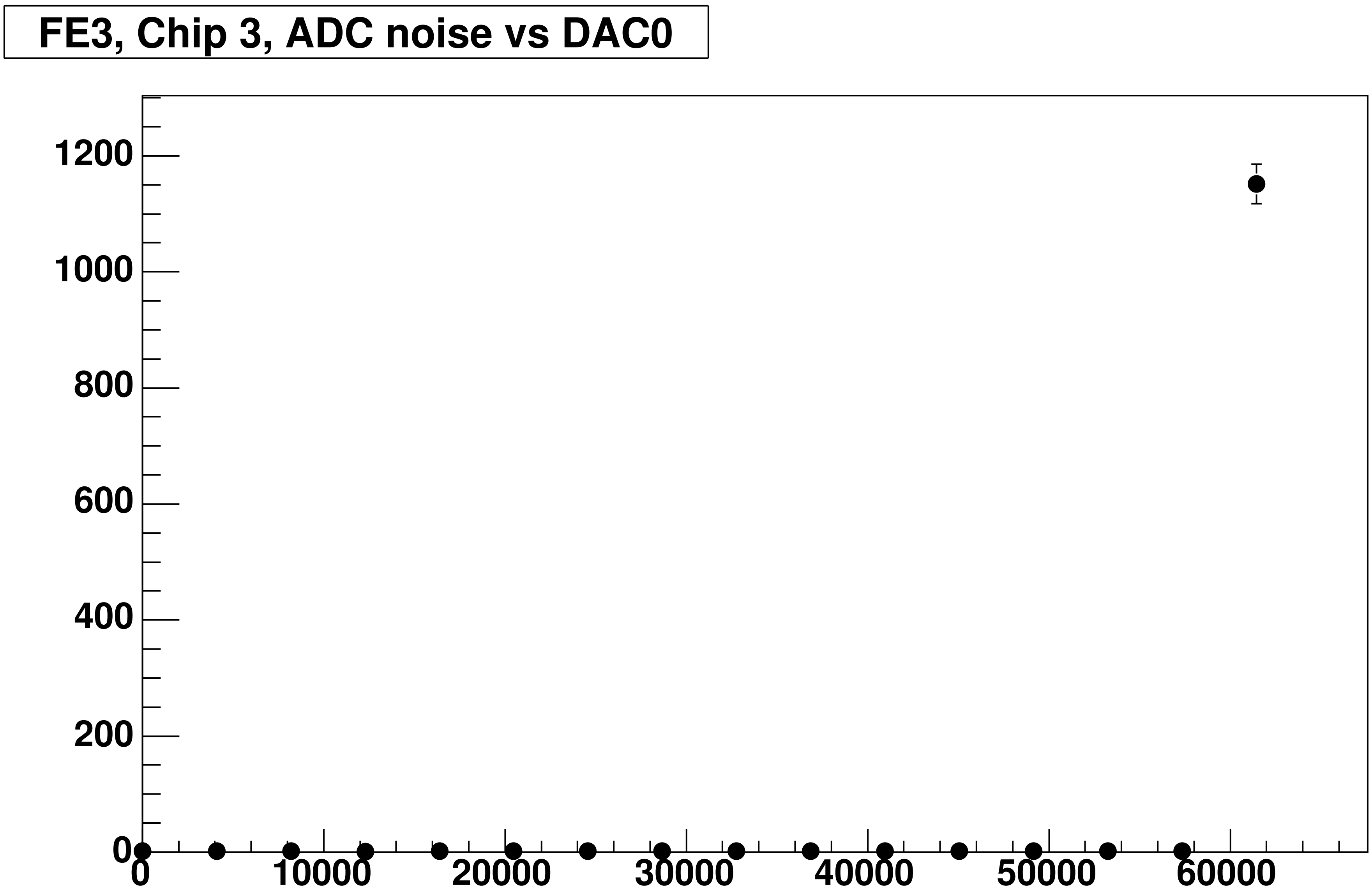

FE3, Chip 2, ADC mean vs DAC1
χ^2 / ndf 44.19 / 11
p0 -3.214 ± 0.03924
p1 5.351e-06 ± 1.082e-06
-2.8
-2.9
-3
-3.1
-3.2
-3.3
-3.4
0
10000
20000
30000
40000
50000
60000


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

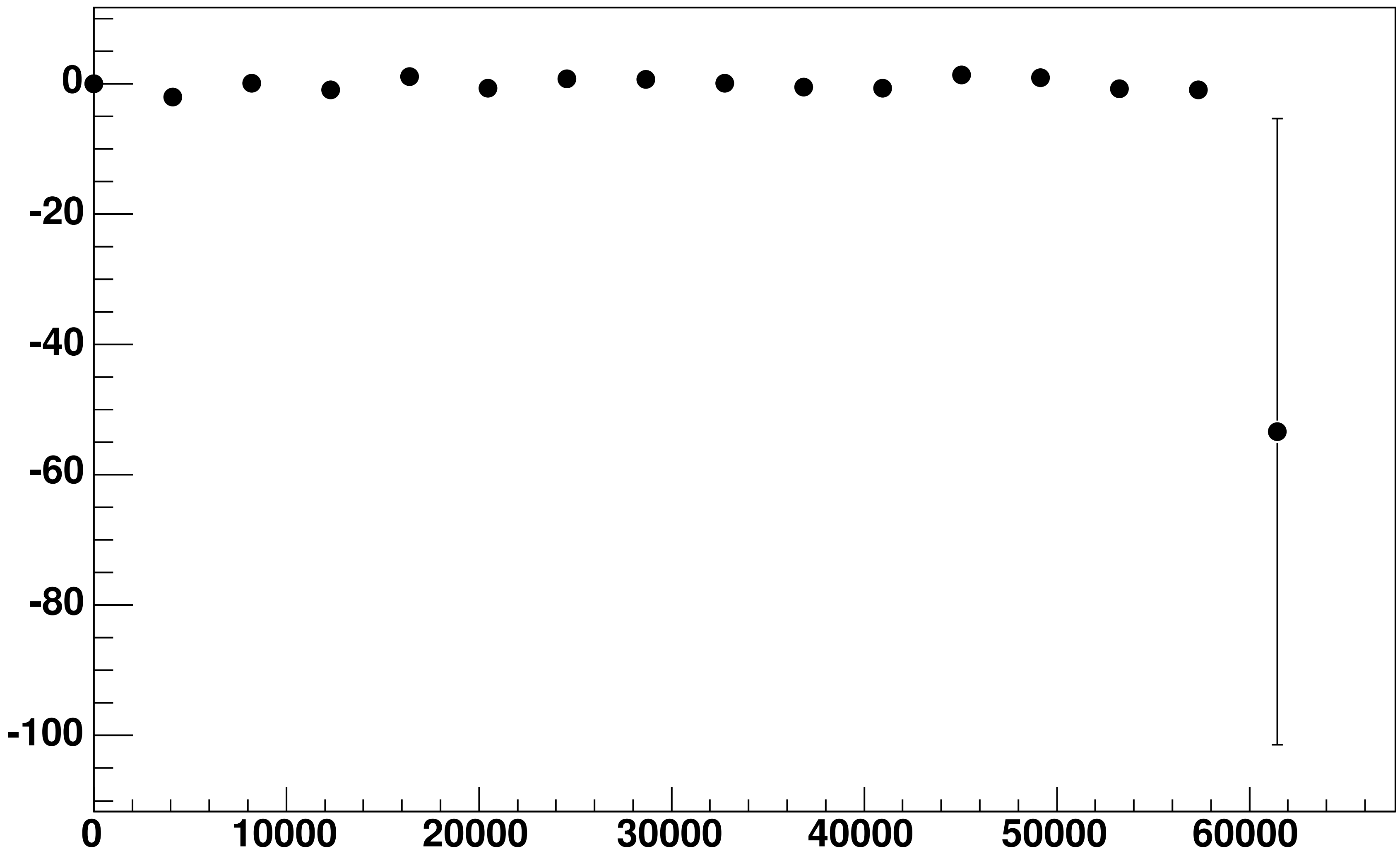

FE3, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

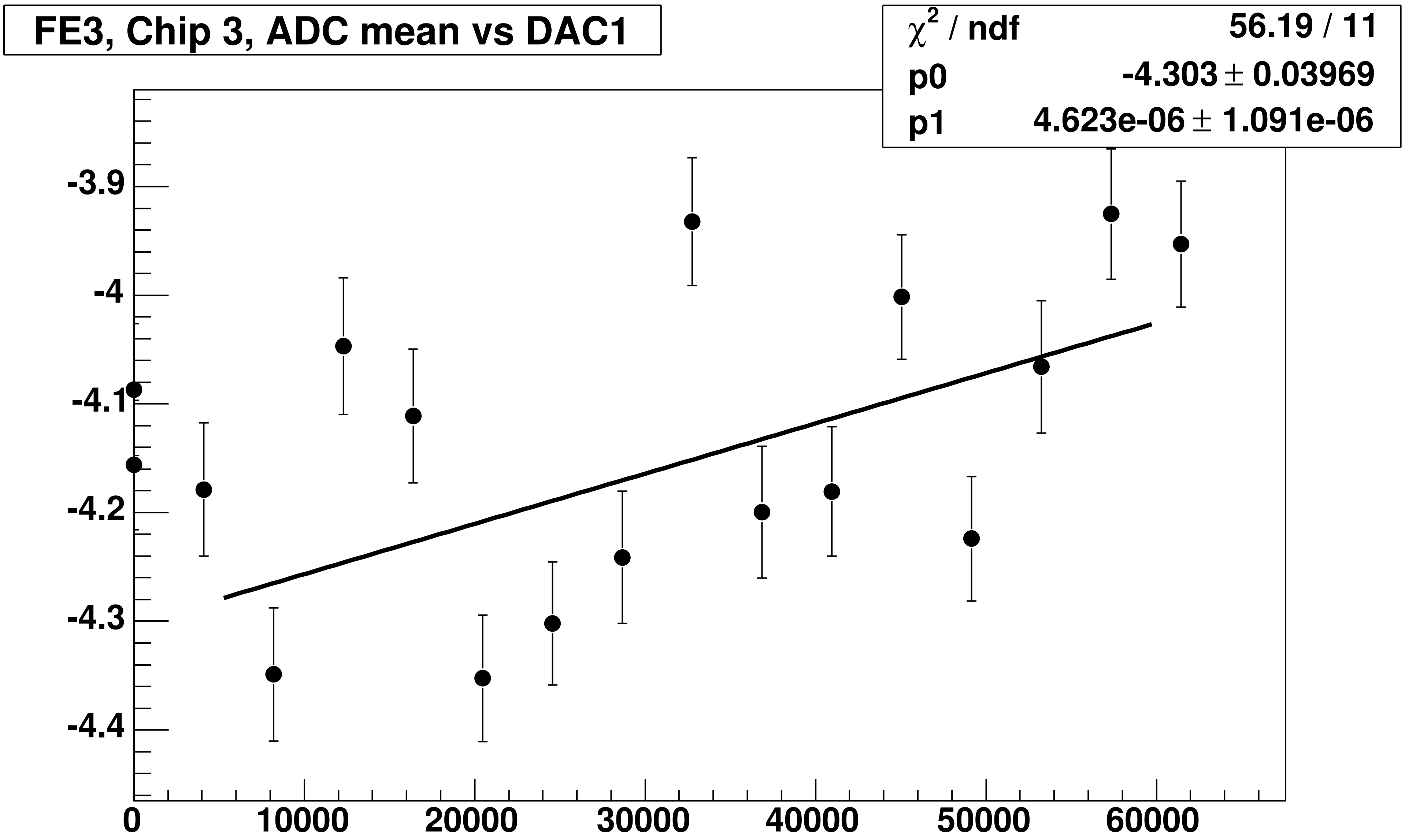


FE3, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1659 / 11
p0 -3.584 ± 0.04054
p1 0.4499 ± 1.297e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

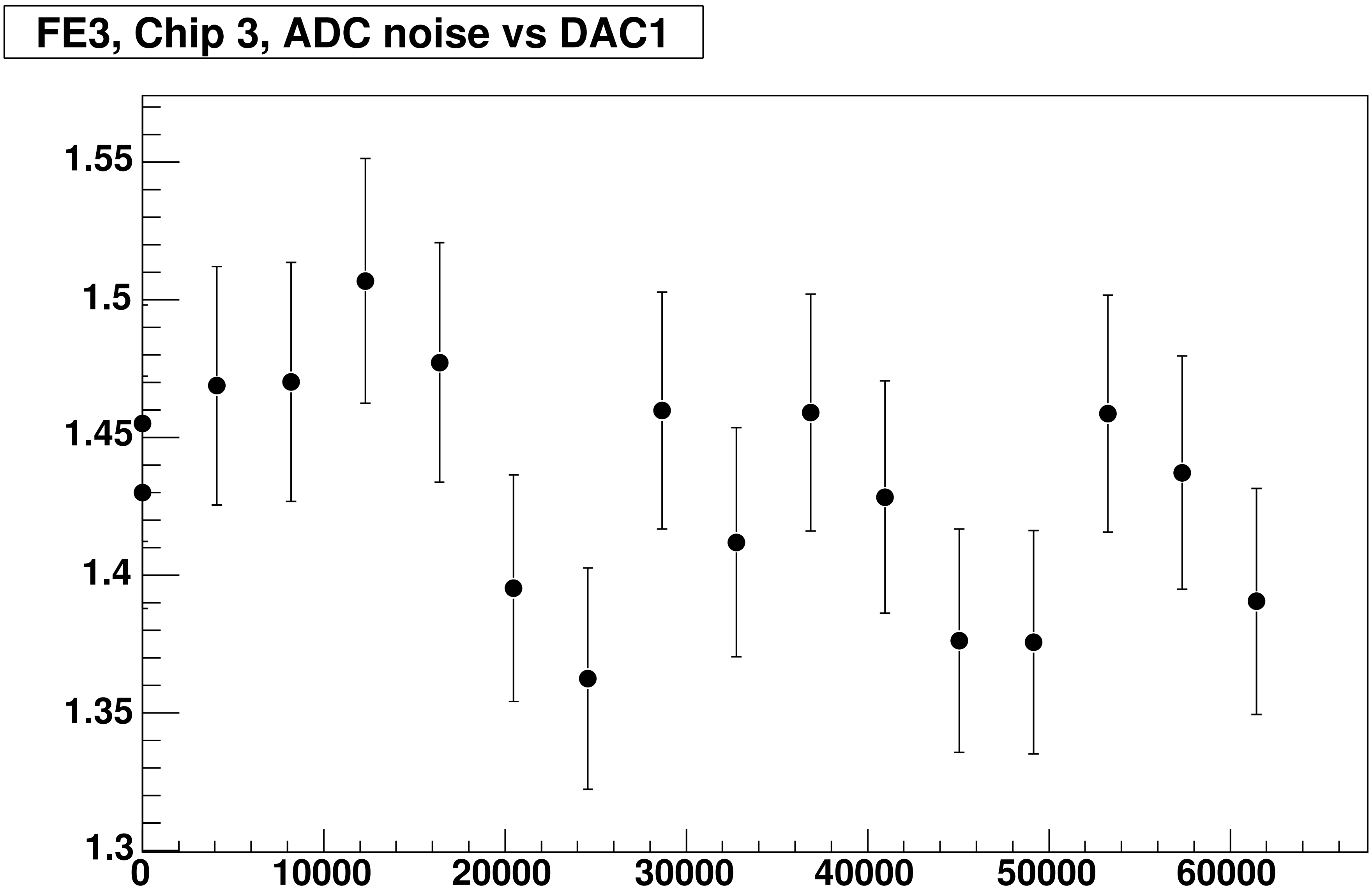

FE3, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

FE3, Chip 3, ADC residuals vs DAC0

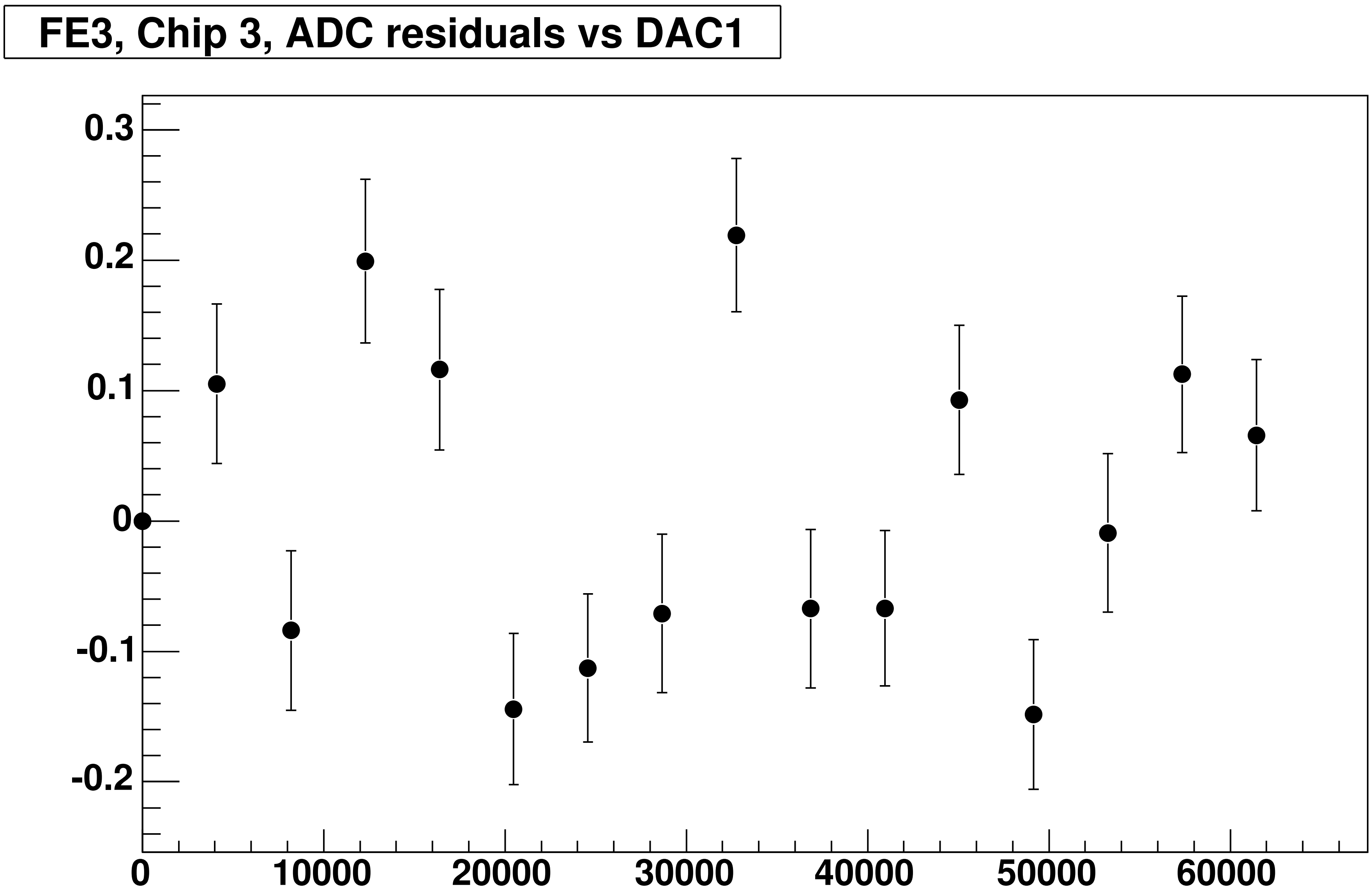


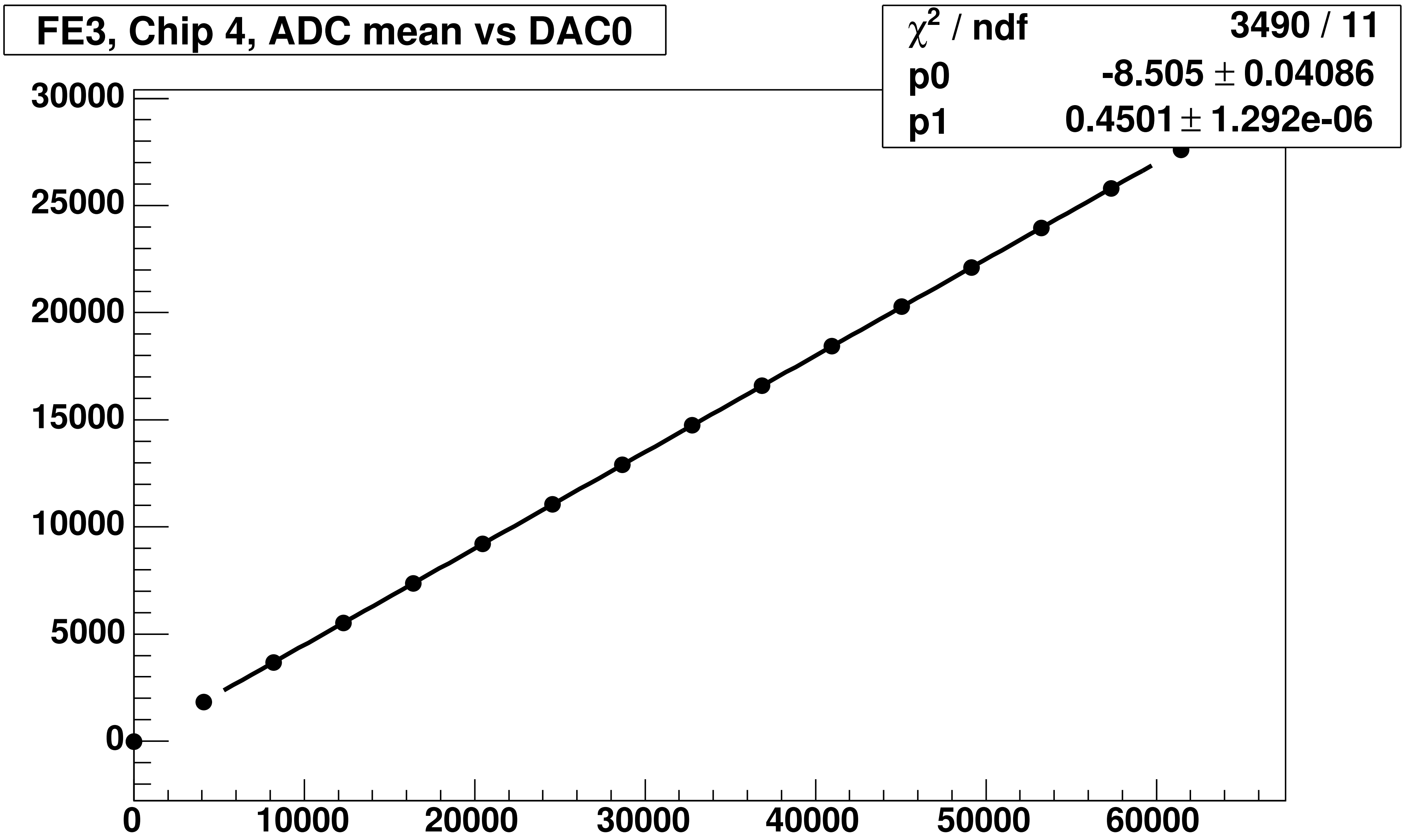


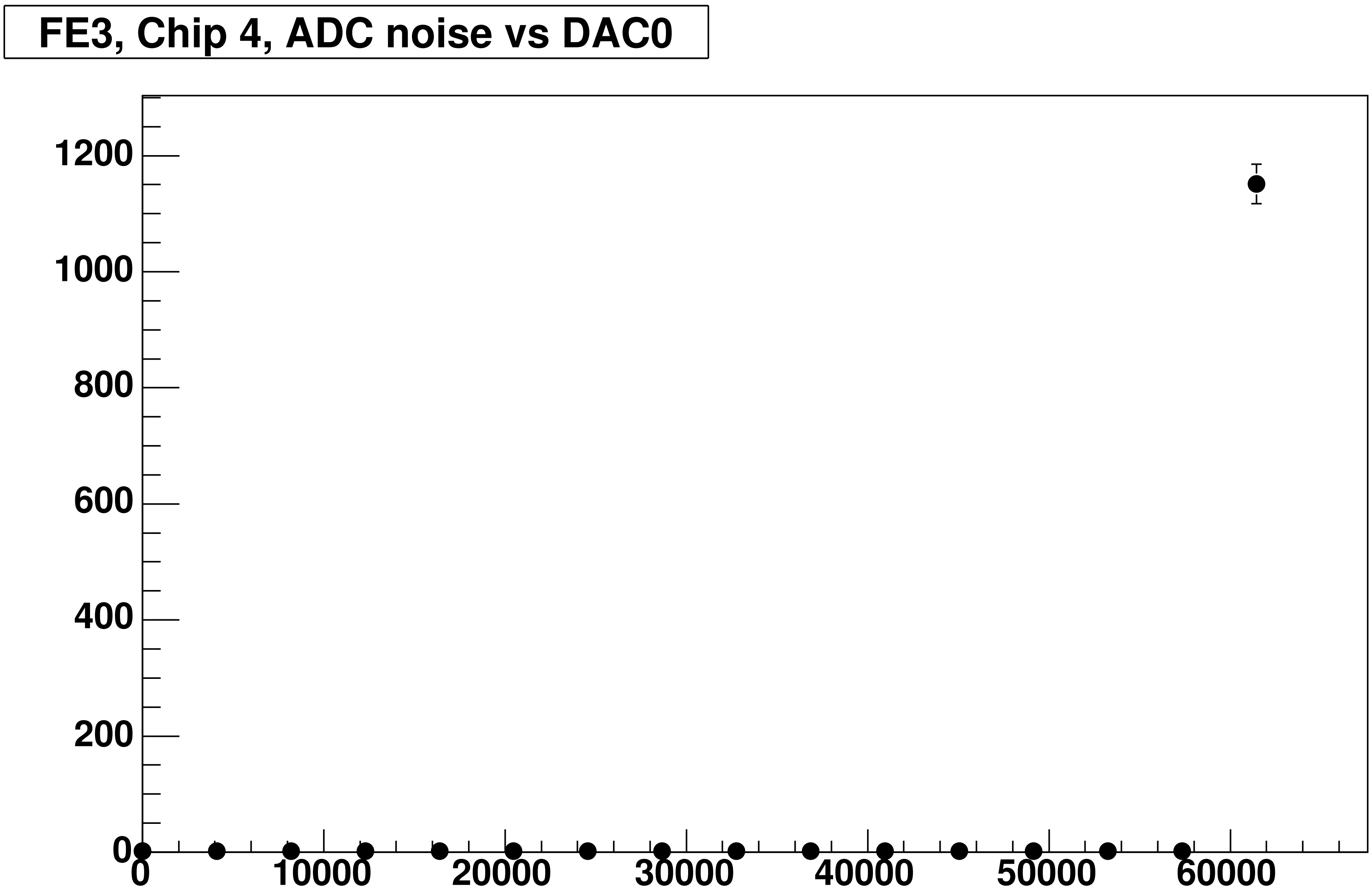
FE3, Chip 3, ADC mean vs DAC1
χ^2 / ndf 56.19 / 11
p0 -4.303 ± 0.03969
p1 4.623e-06 ± 1.091e-06
-3.9
-4
-4.1
-4.2
-4.3
-4.4
0
10000
20000
30000
40000
50000
60000

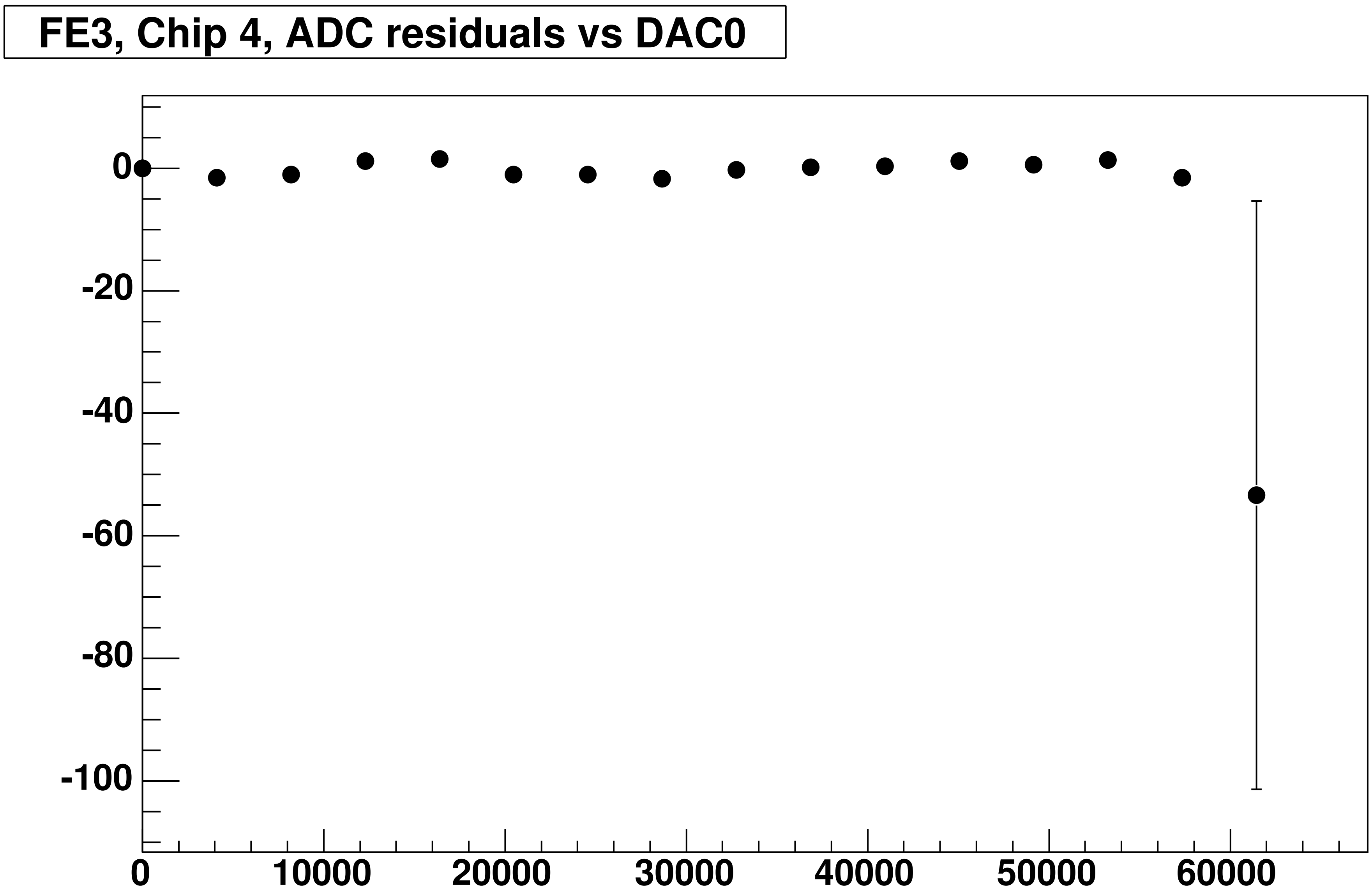


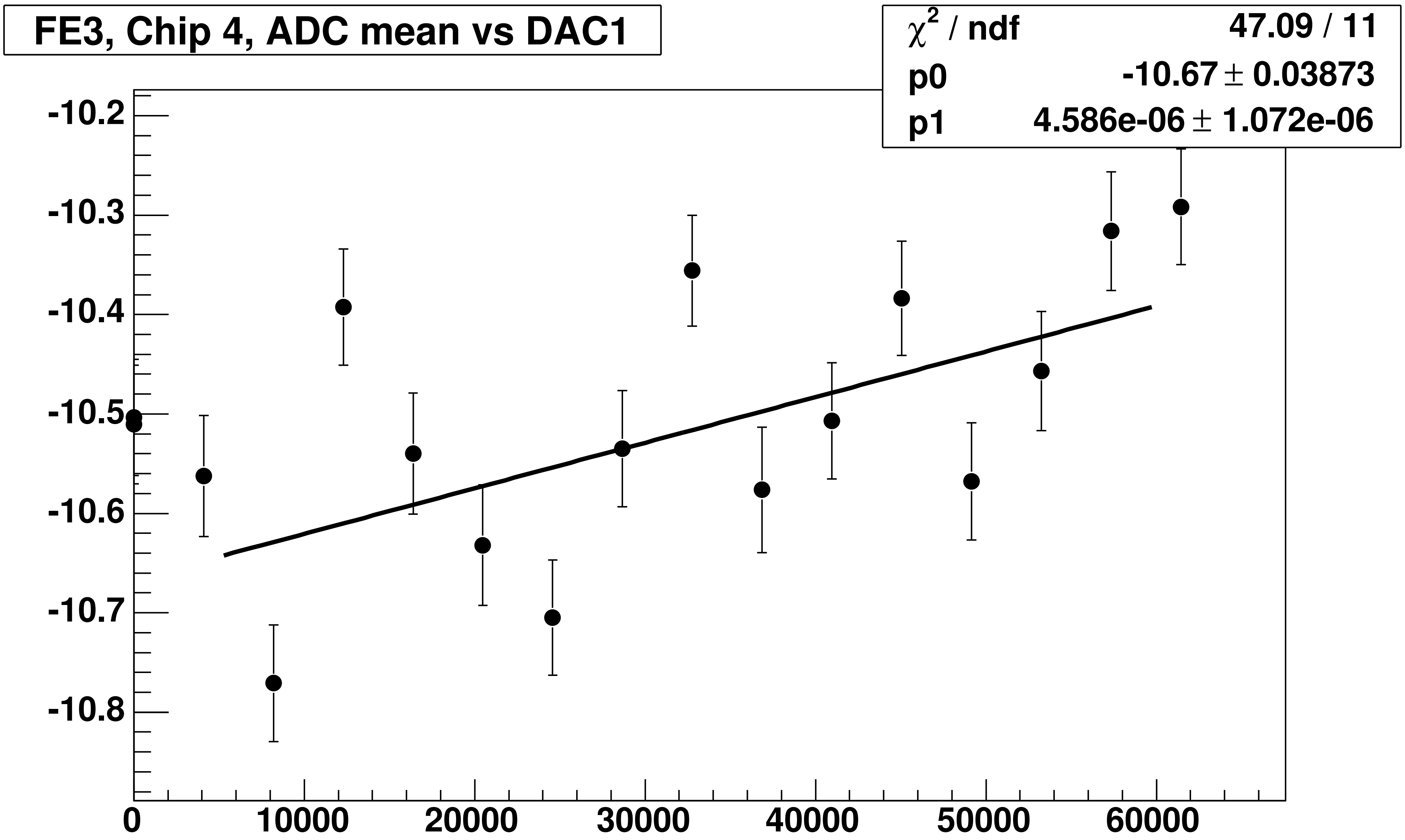
FE3, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


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

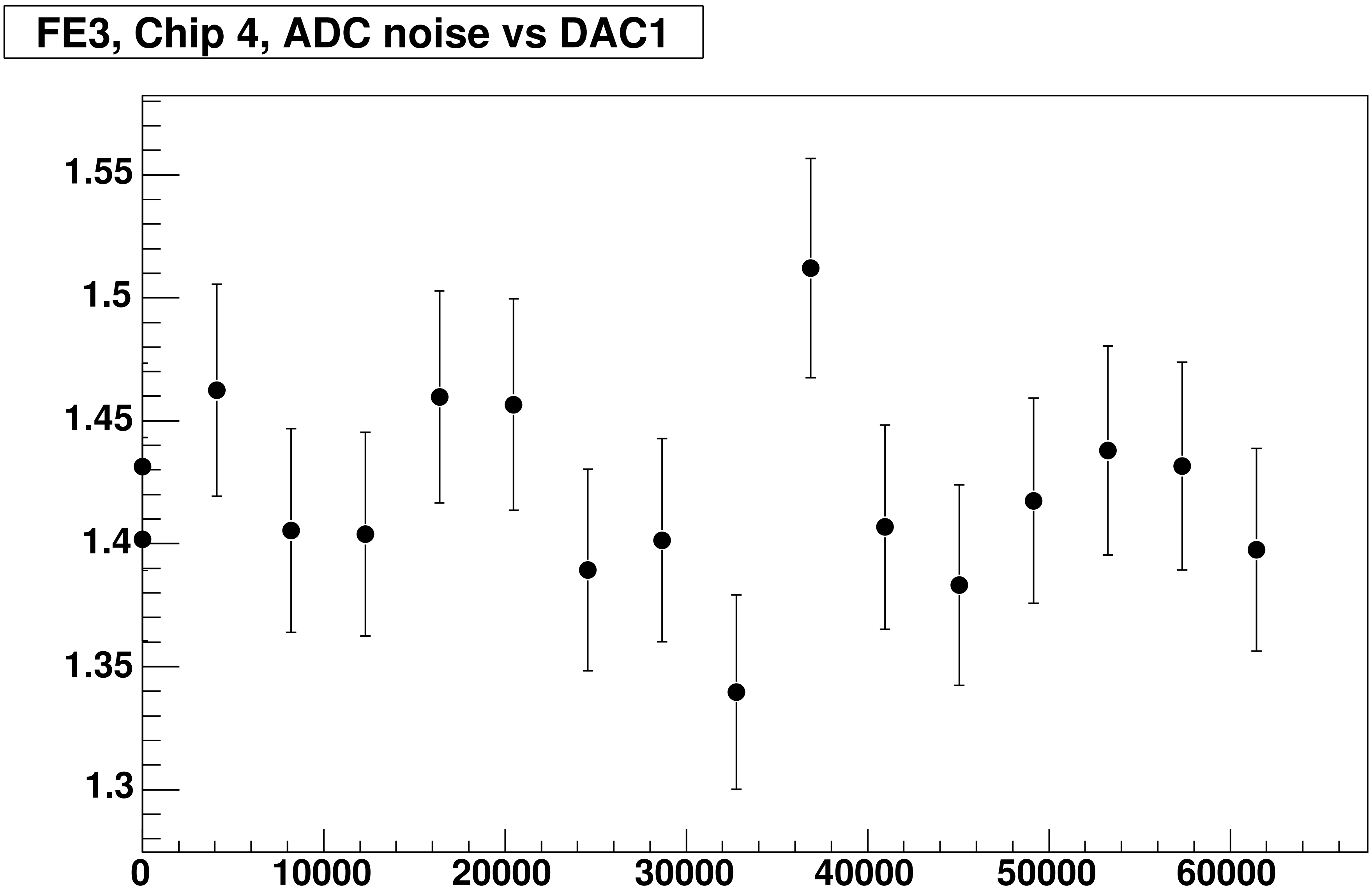

FE3, Chip 4, ADC mean vs DAC0
χ^2 / ndf 3490 / 11
p0 -8.505 ± 0.04086
p1 0.4501 ± 1.292e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

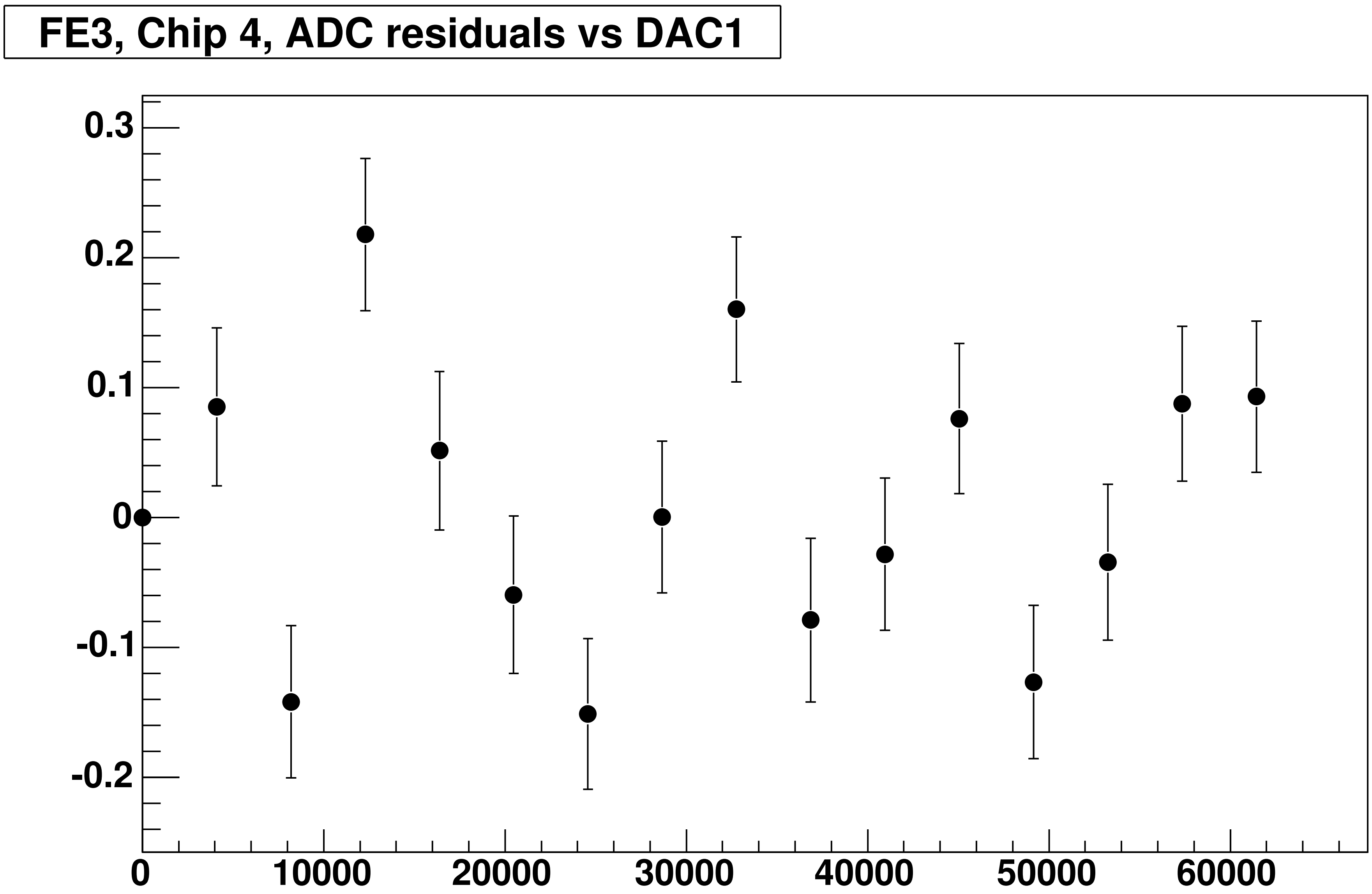

FE3, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

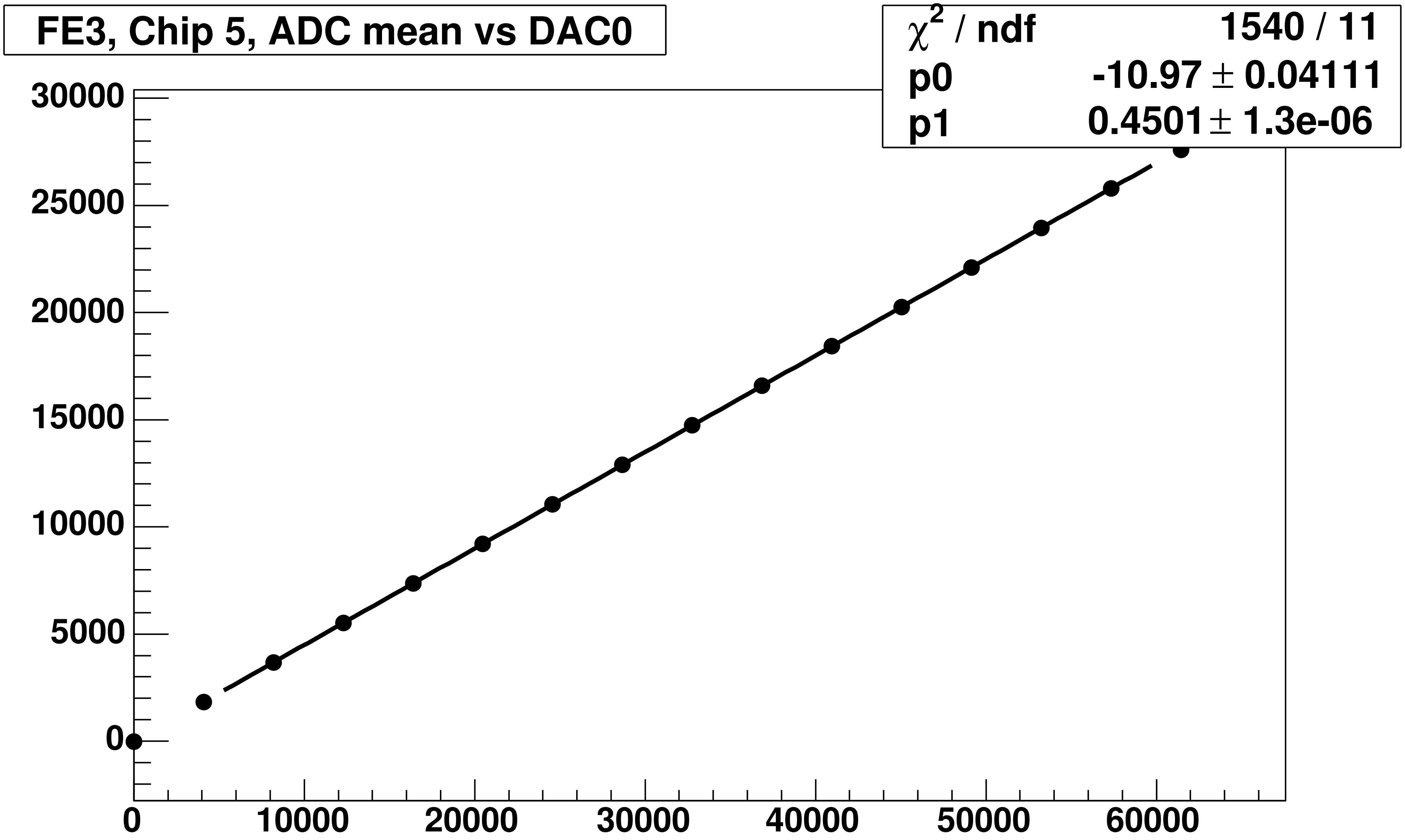


FE3, Chip 4, ADC mean vs DAC1
χ^2 / ndf 47.09 / 11
p0 -10.67 ± 0.03873
p1 4.586e-06 ± 1.072e-06
-10.2
-10.3
-10.4
-10.5
-10.6
-10.7
-10.8
0
10000
20000
30000
40000
50000
60000

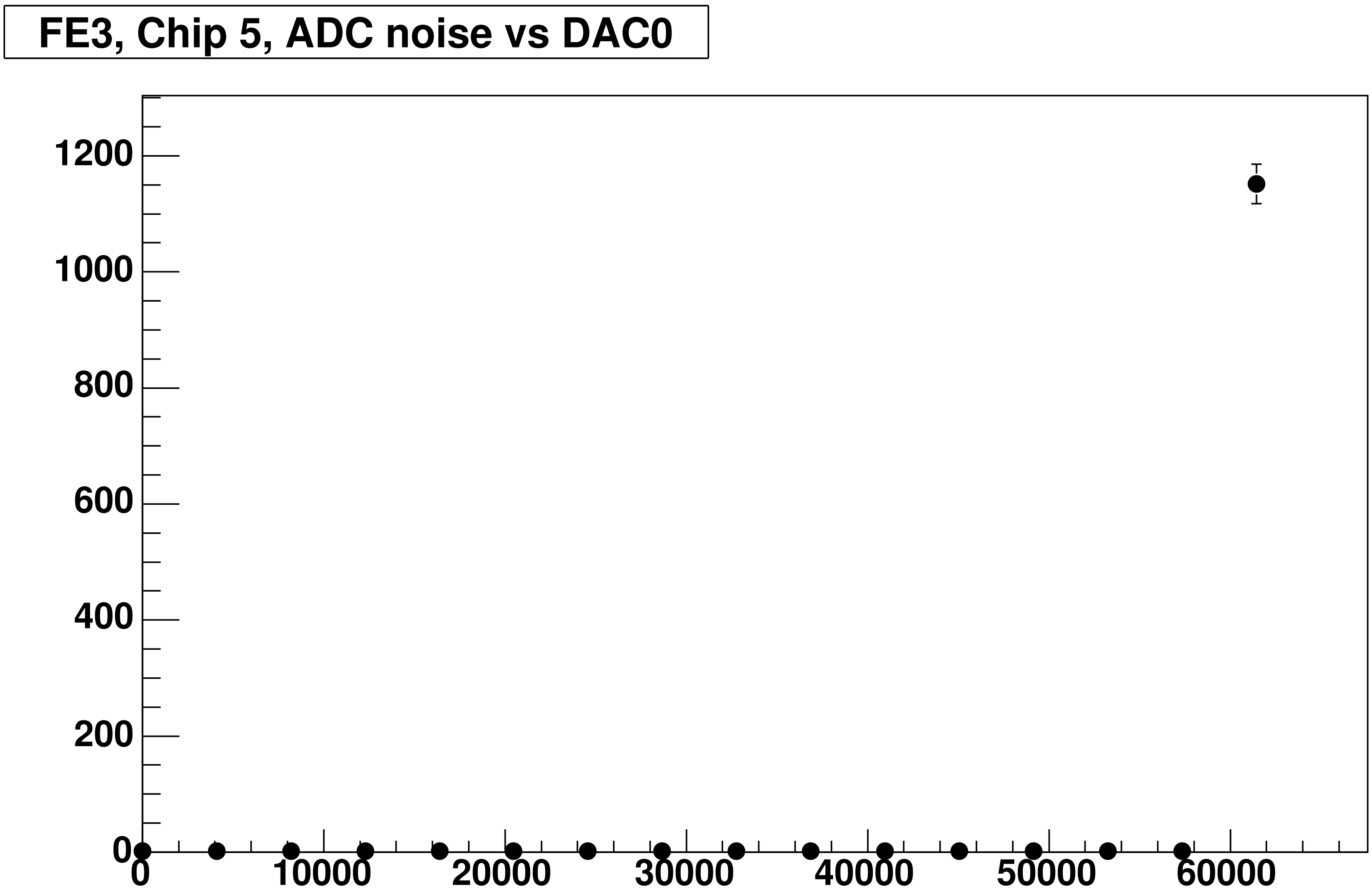


FE3, Chip 4, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

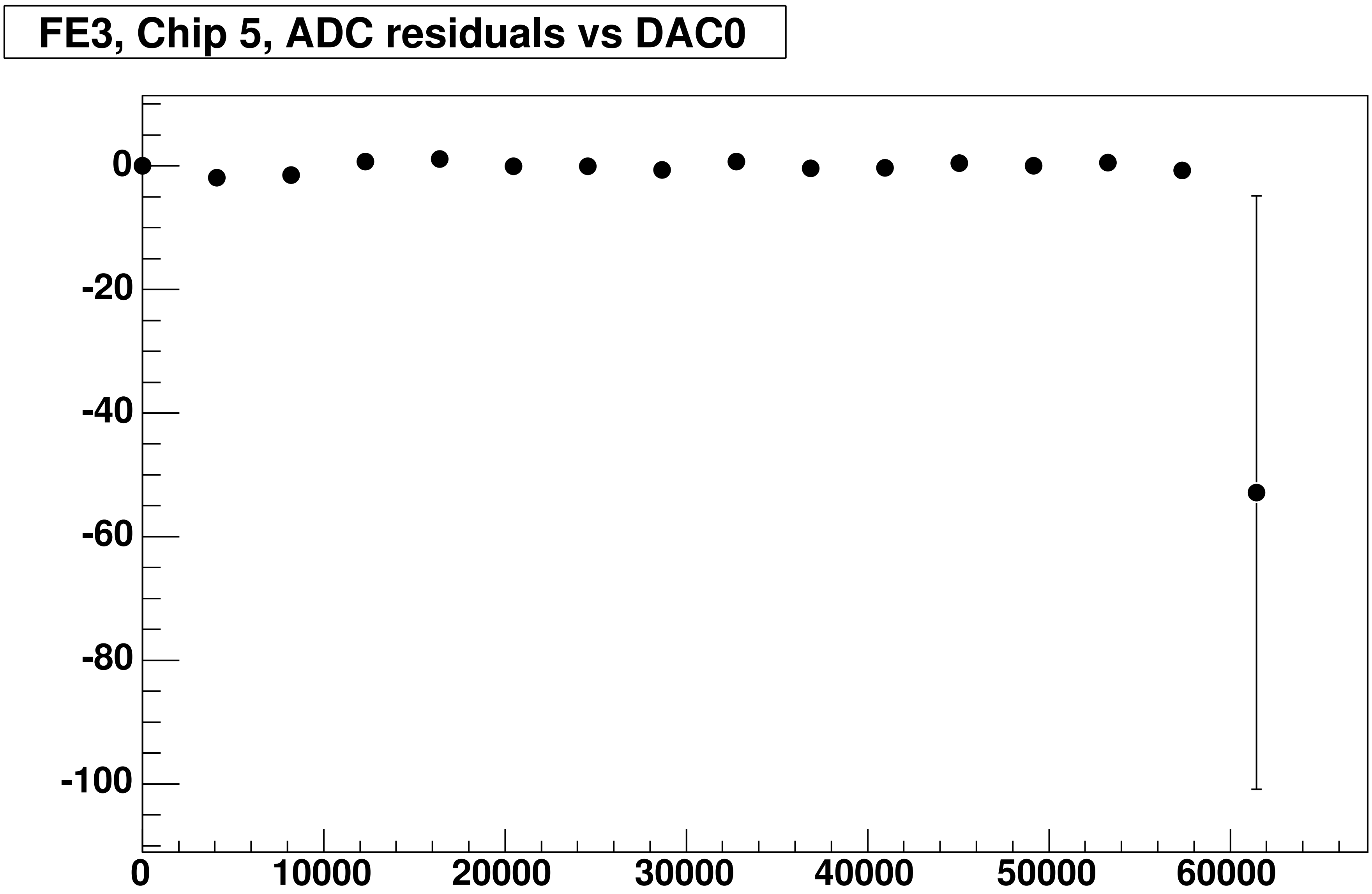

FE3, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

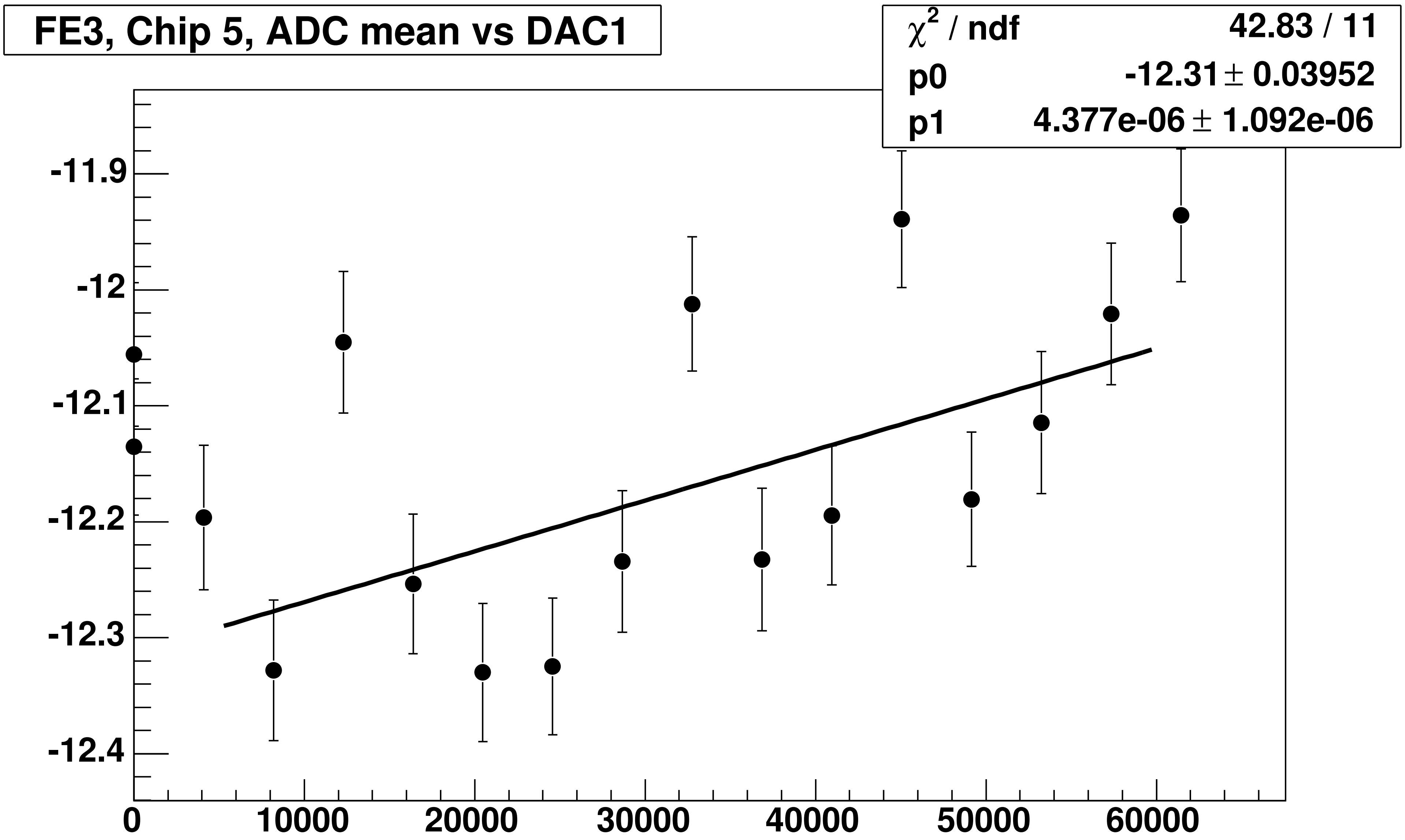


FE3, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1540 / 11
p0 -10.97 ± 0.04111
p1 0.4501 ± 1.3e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

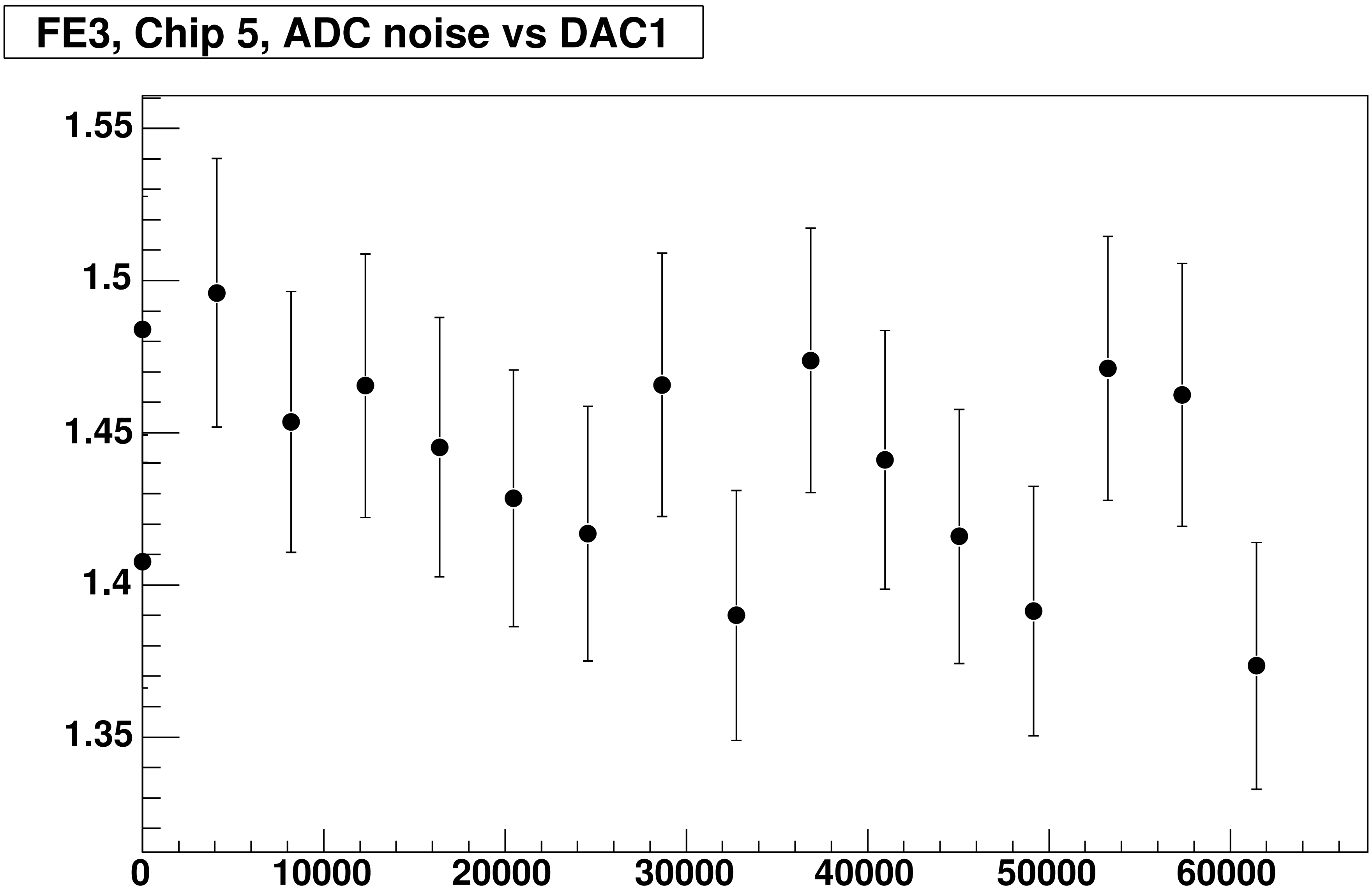


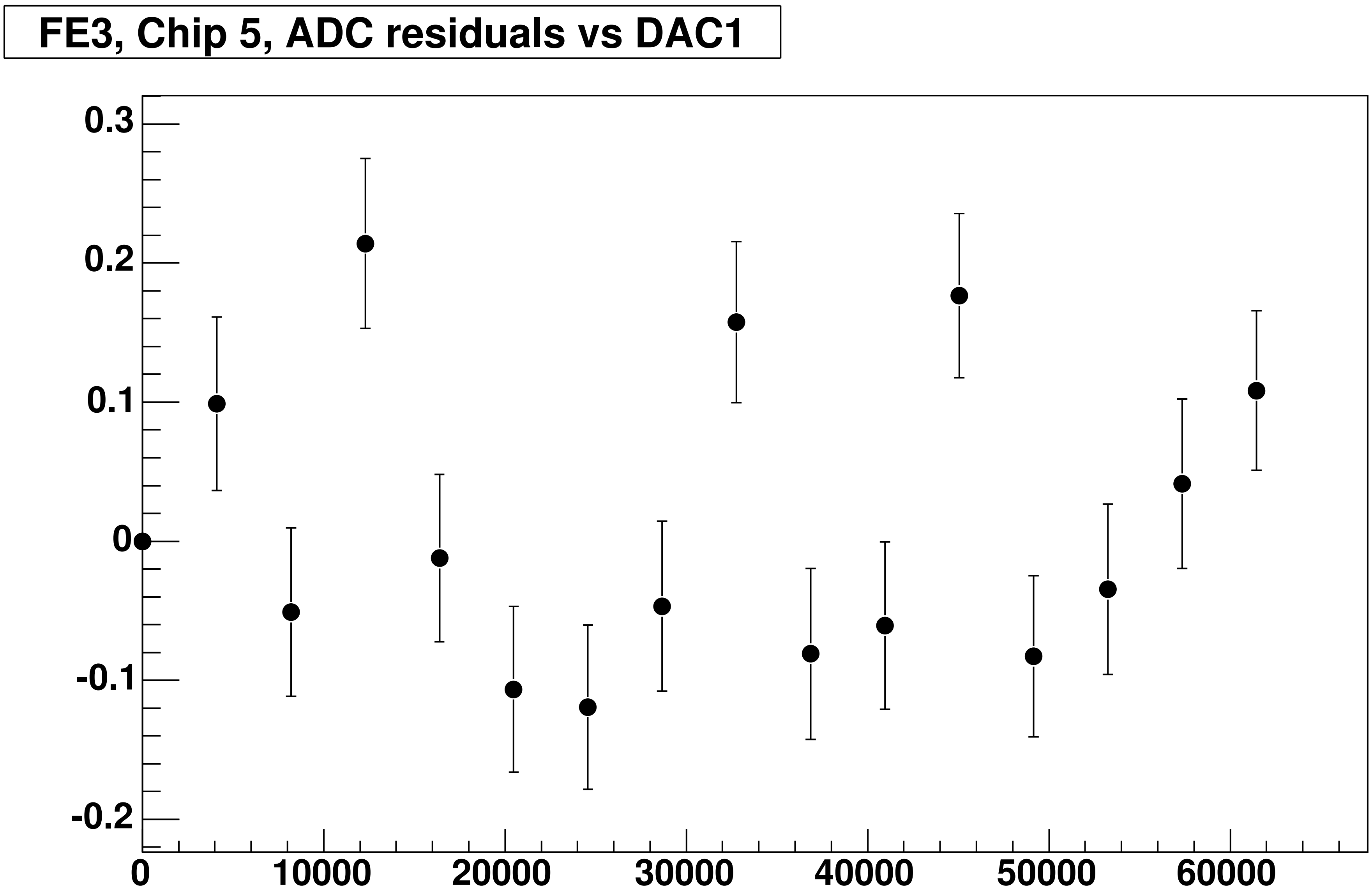
FE3, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

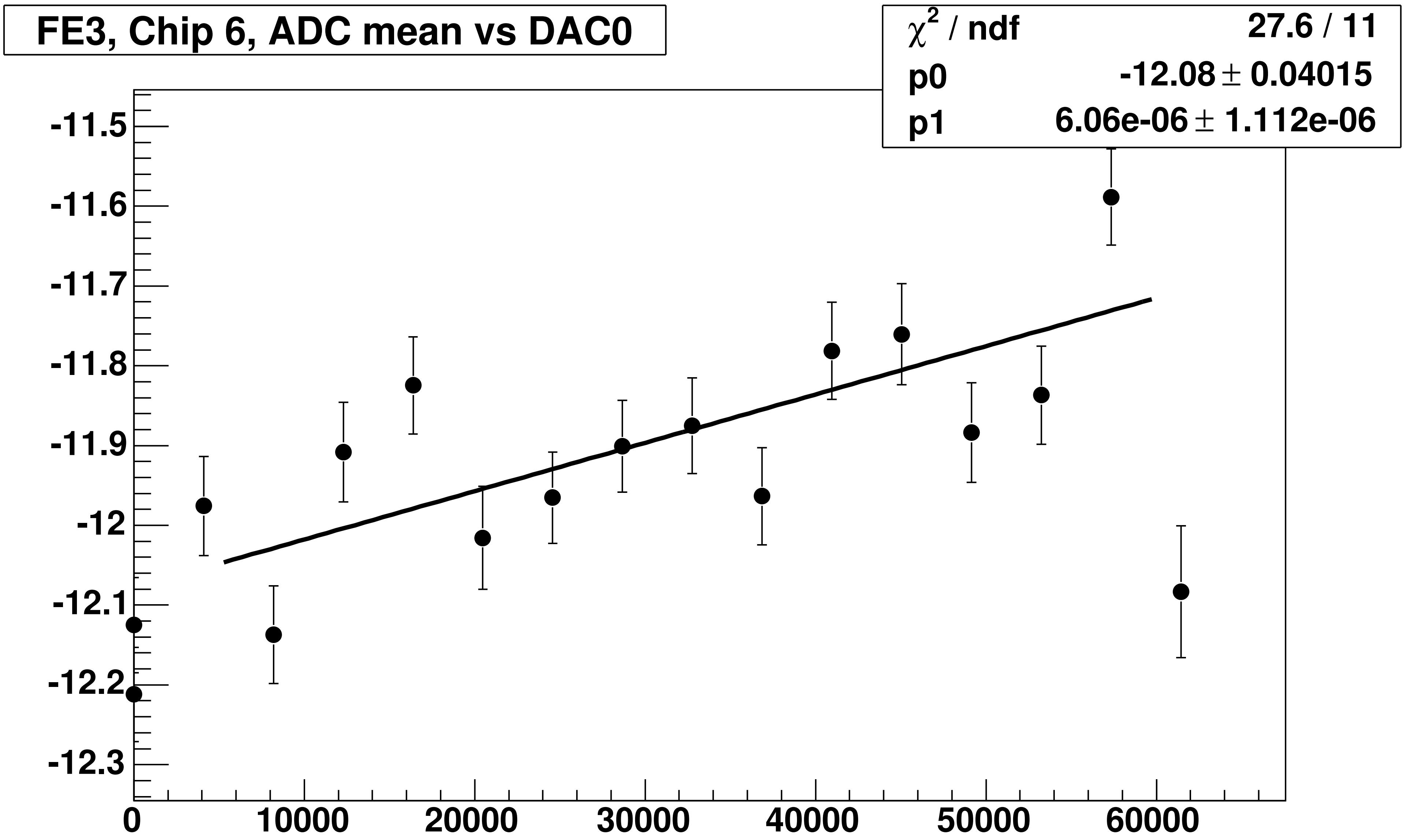

FE3, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



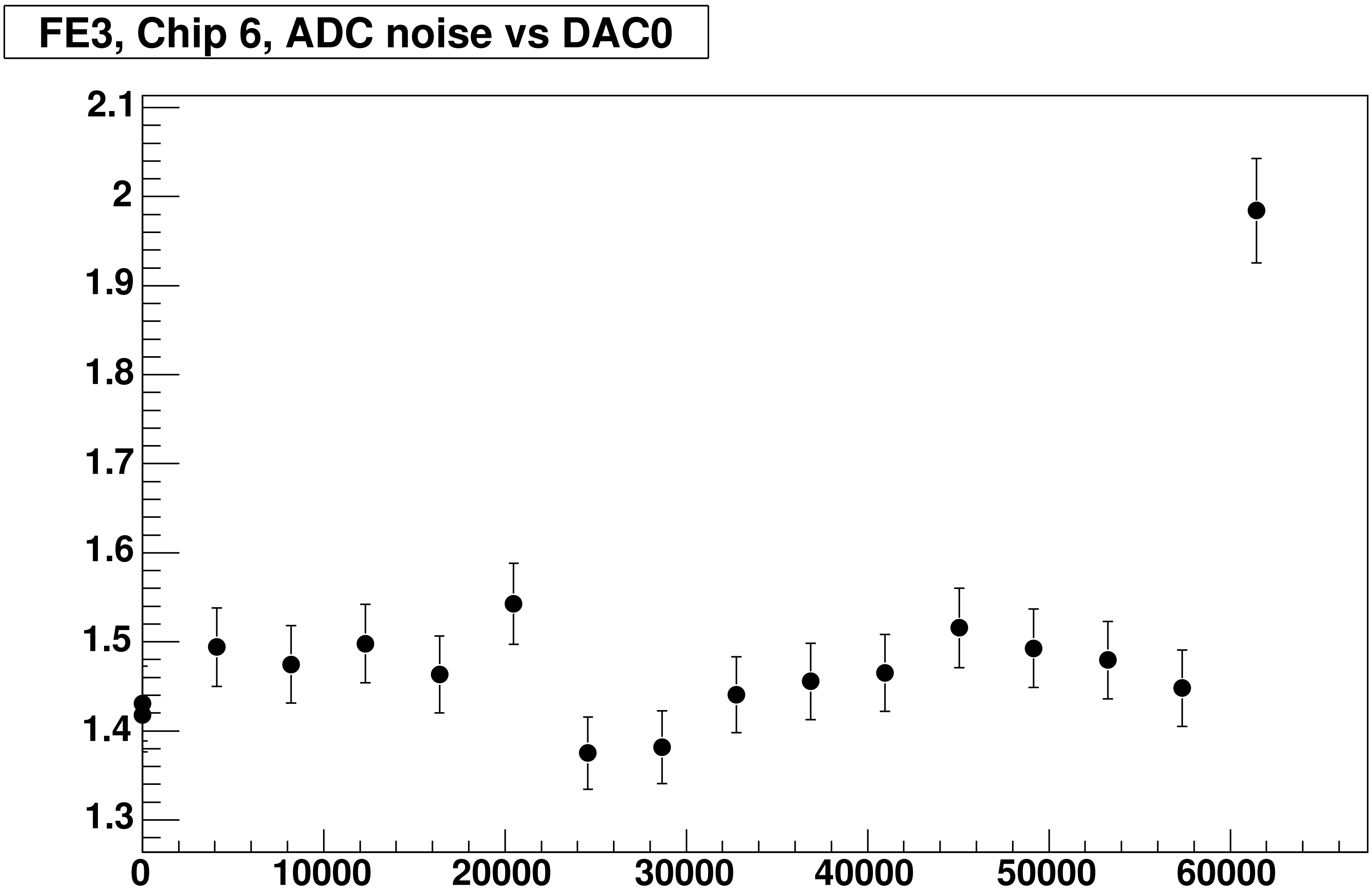
FE3, Chip 5, ADC mean vs DAC1
χ^2 / ndf 42.83 / 11
p0 -12.31 ± 0.03952
p1 4.377e-06 ± 1.092e-06
-11.9
-12
-12.1
-12.2
-12.3
-12.4
0
10000
20000
30000
40000
50000
60000

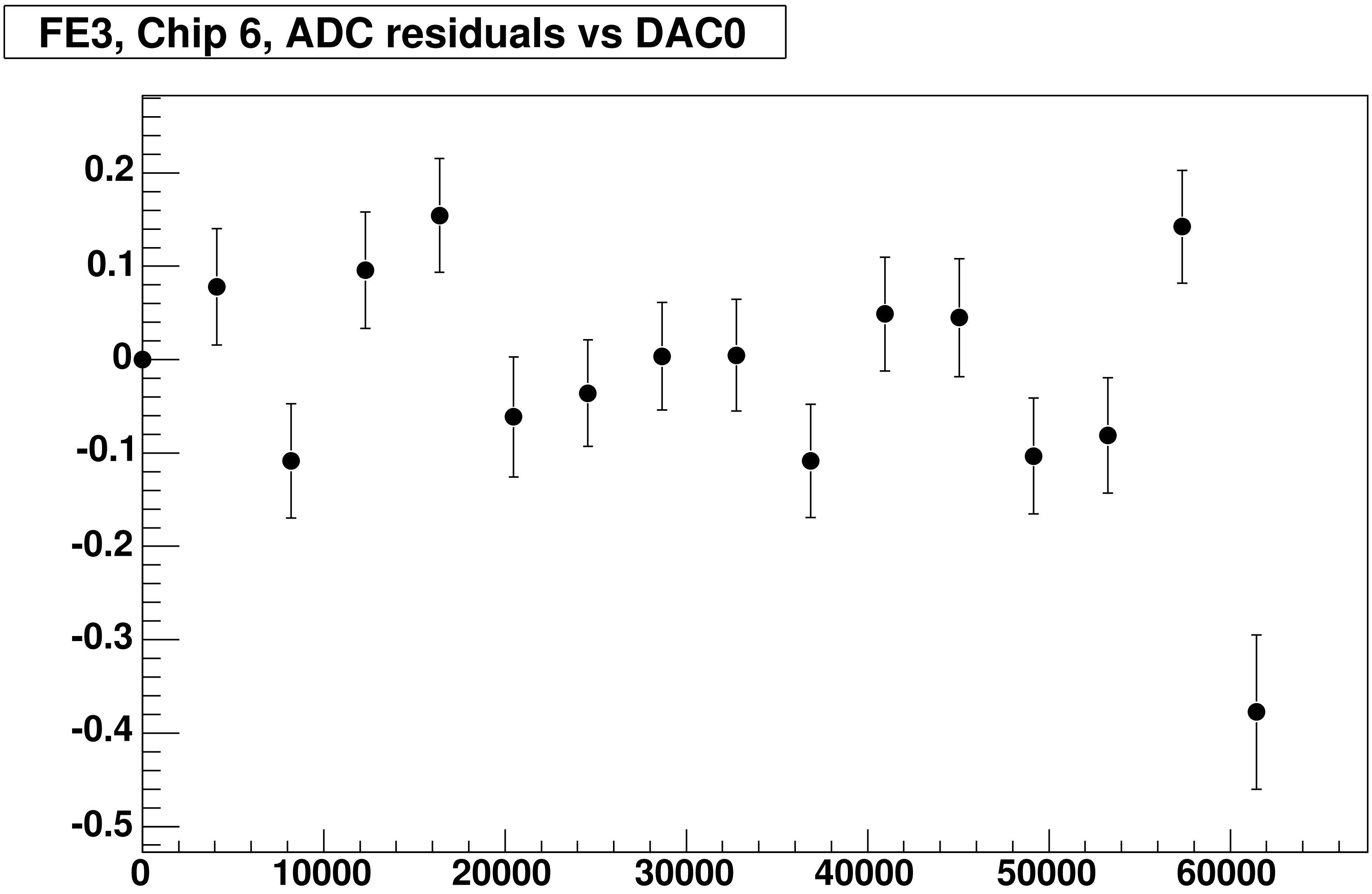

FE3, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

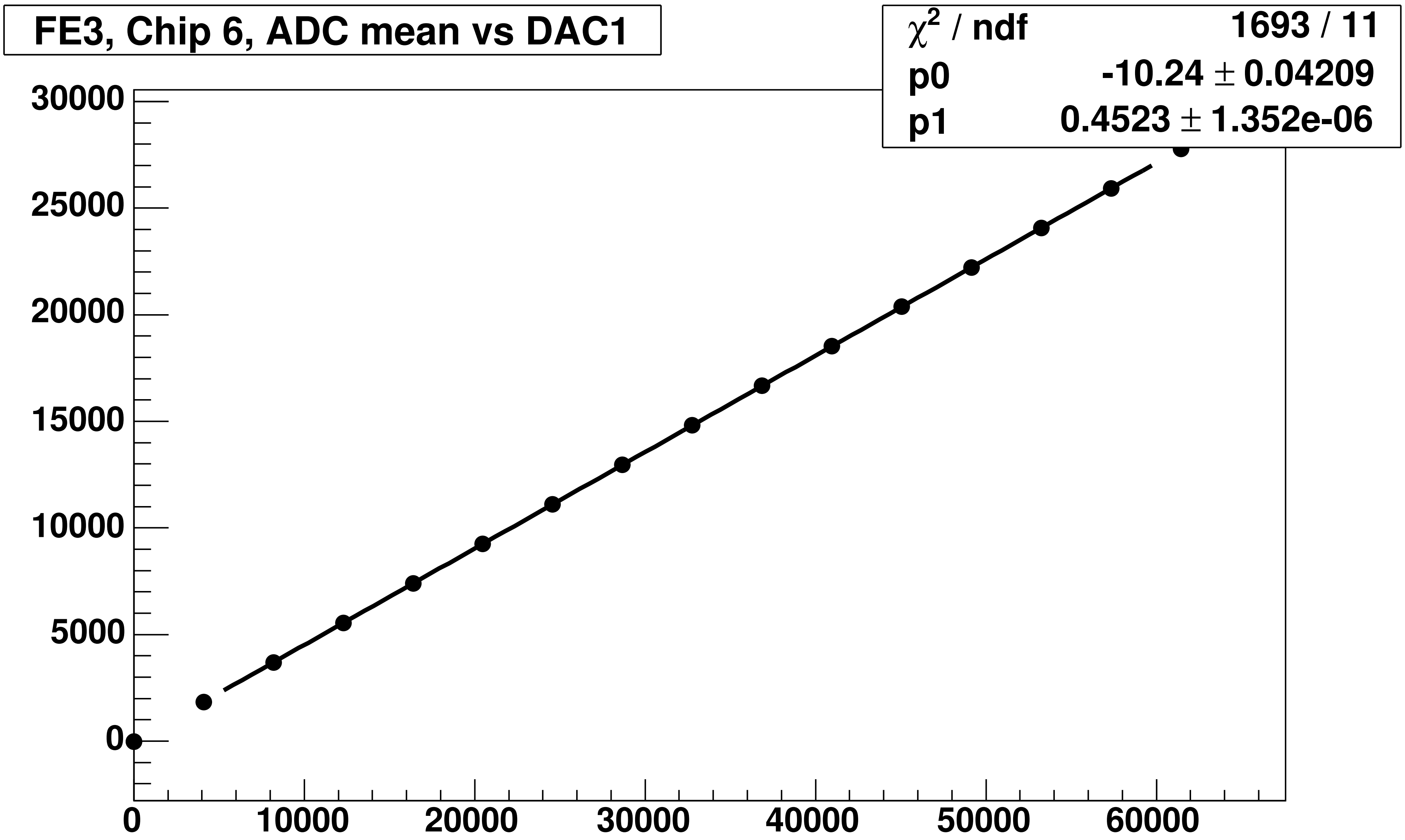

FE3, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

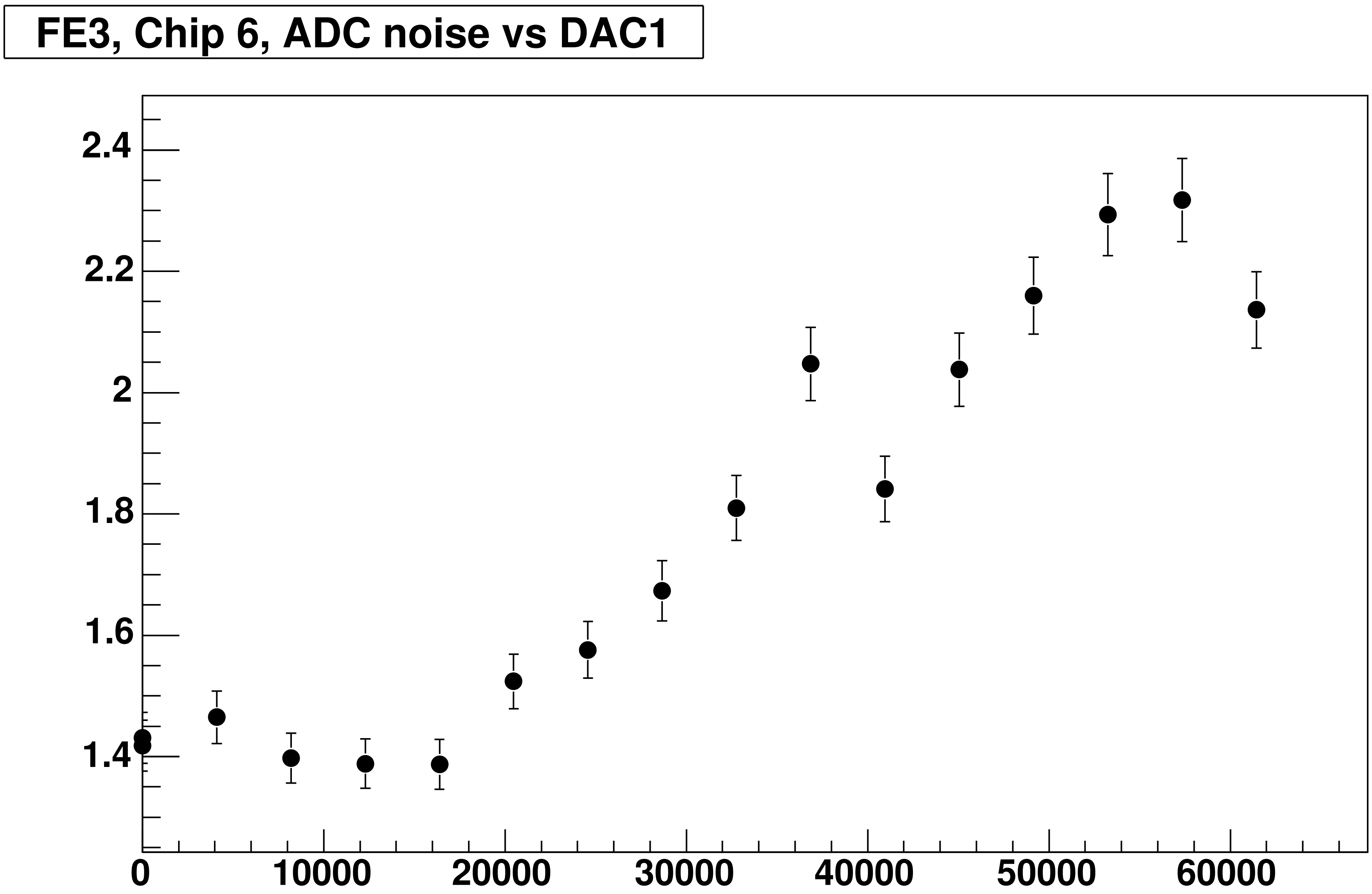


FE3, Chip 6, ADC mean vs DAC0
χ^2 / ndf 27.6 / 11
p0 -12.08 ± 0.04015
p1 6.06e-06 ± 1.112e-06
-11.5
-11.6
-11.7
-11.8
-11.9
-12
-12.1
-12.2
-12.3
0
10000
20000
30000
40000
50000
60000

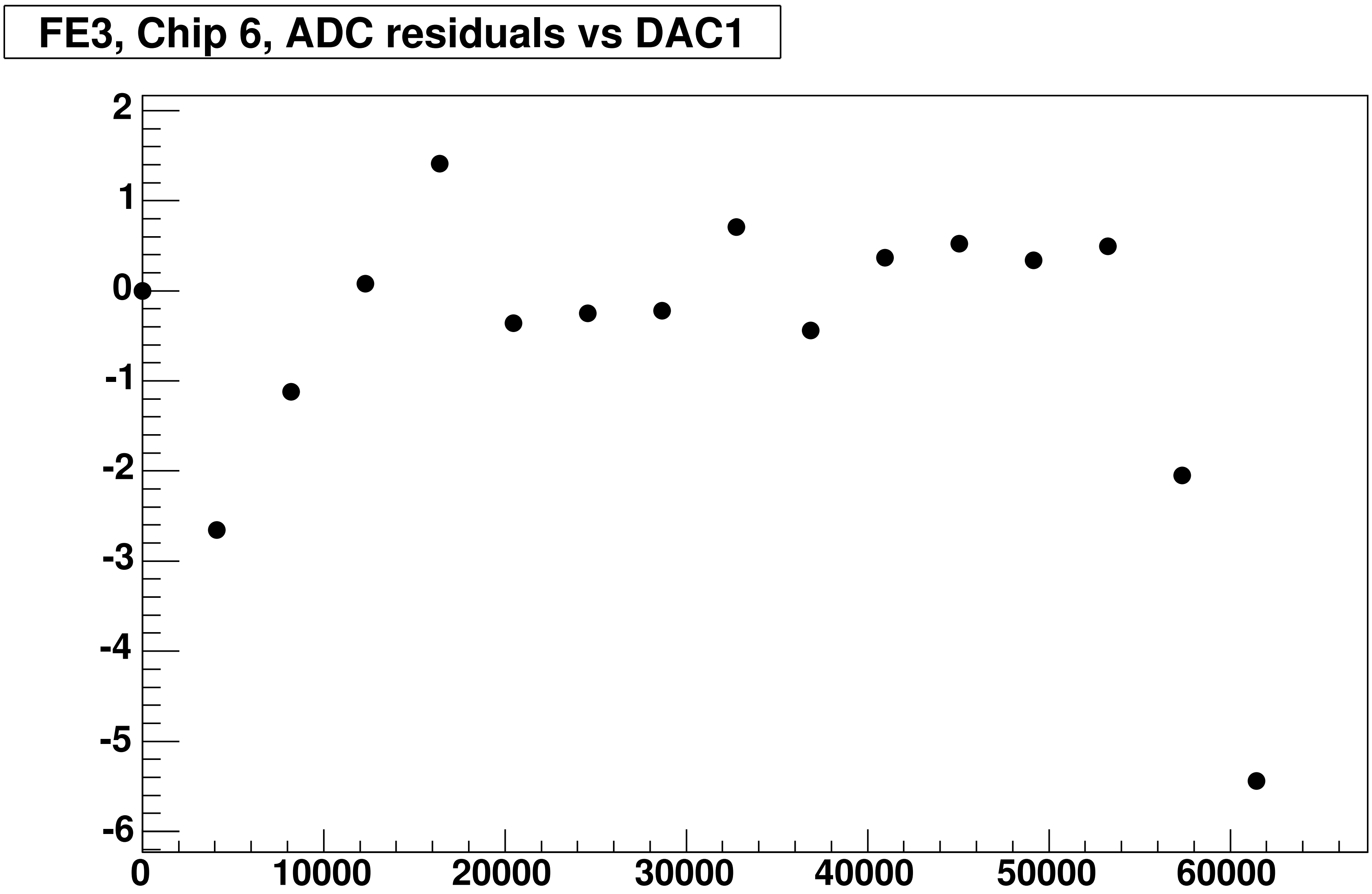

FE3, Chip 6, ADC noise vs DAC0
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000


FE3, Chip 6, 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

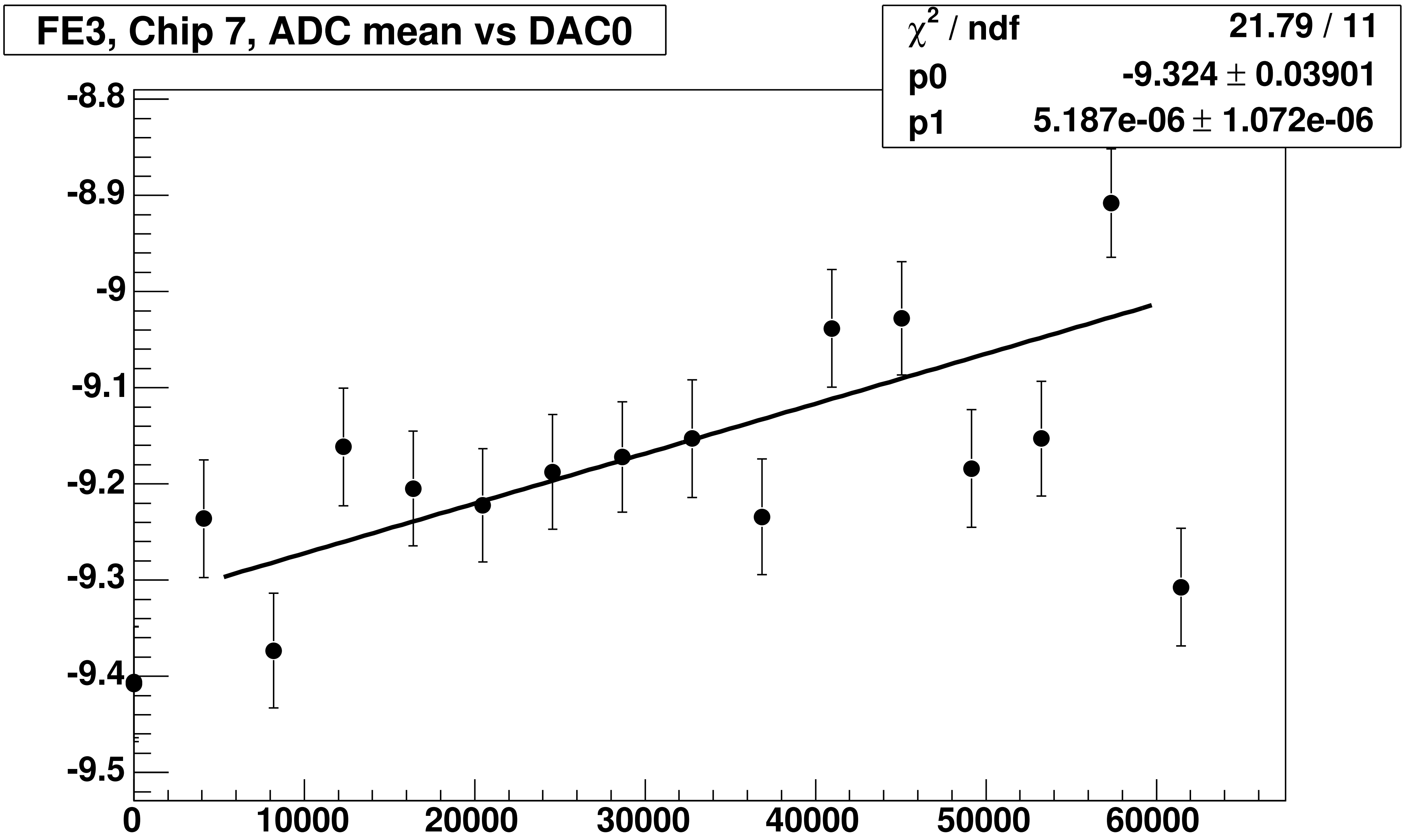

FE3, Chip 6, ADC mean vs DAC1
χ² / ndf 1693 / 11
p0 -10.24 ± 0.04209
p1 0.4523 ± 1.352e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

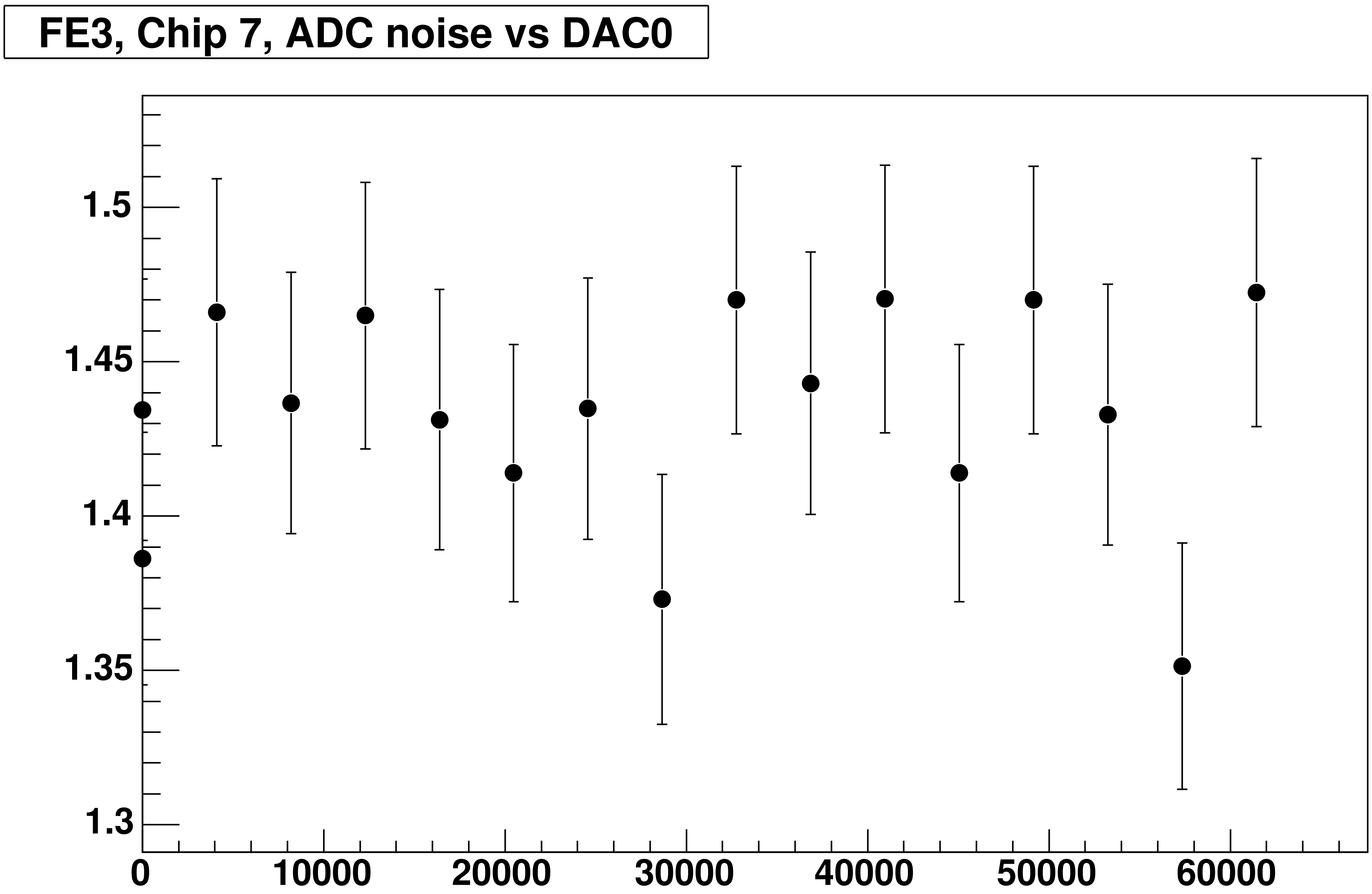


FE3, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

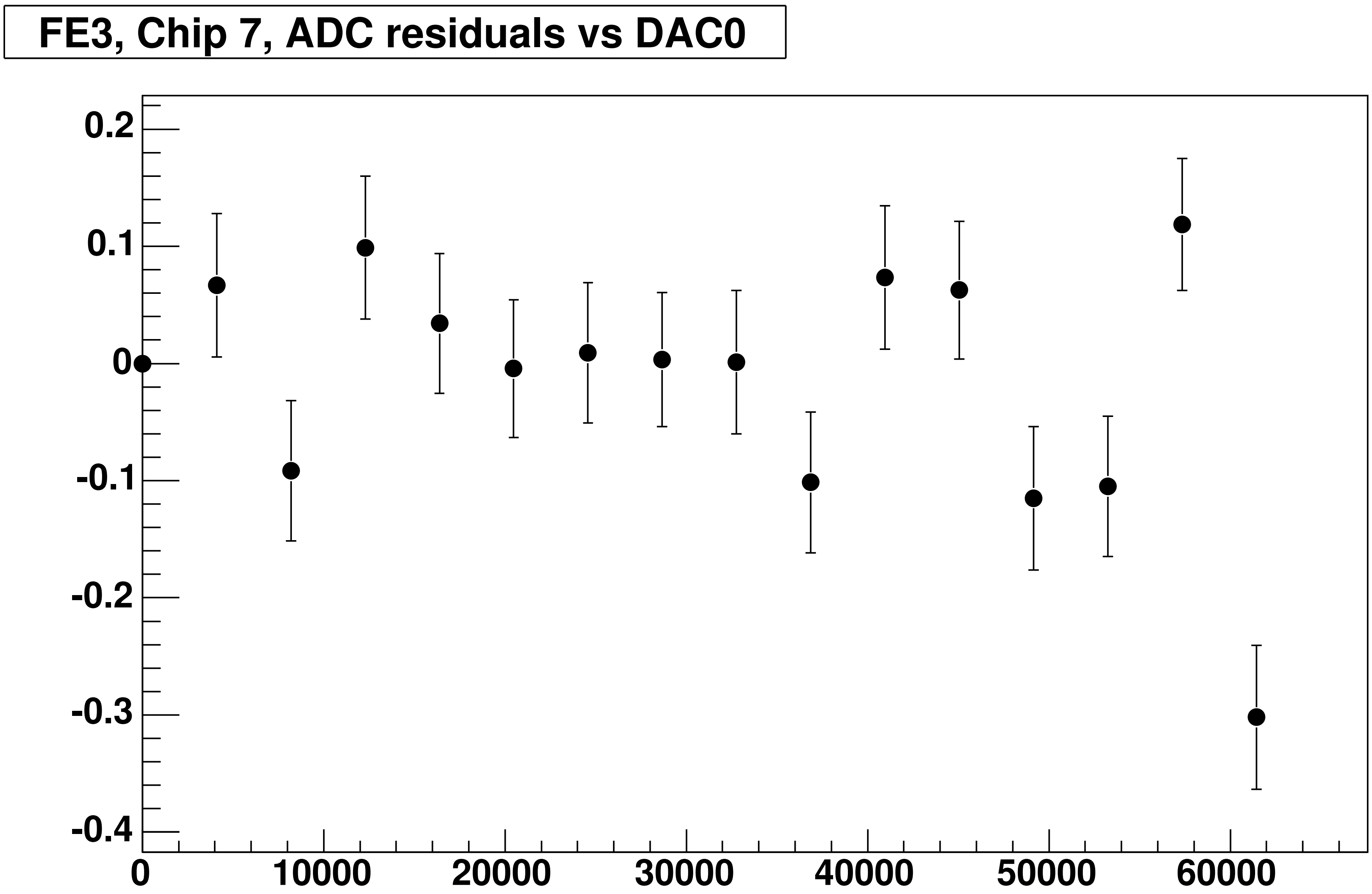


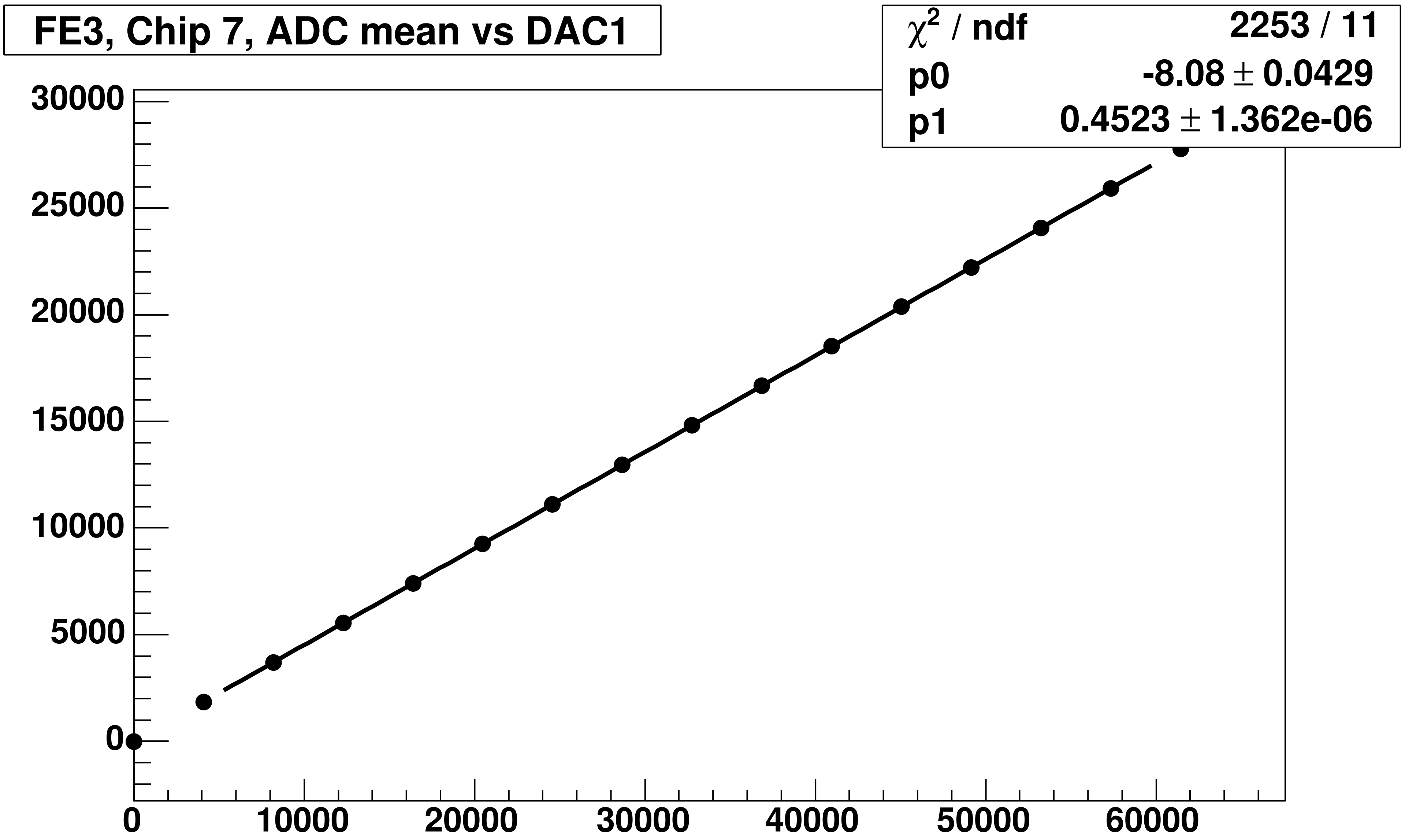
FE3, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE3, Chip 7, ADC mean vs DAC0
χ^2 / ndf 21.79 / 11
p0 -9.324 ± 0.03901
p1 5.187e-06 ± 1.072e-06
-8.8
-8.9
-9
-9.1
-9.2
-9.3
-9.4
-9.5
0
10000
20000
30000
40000
50000
60000

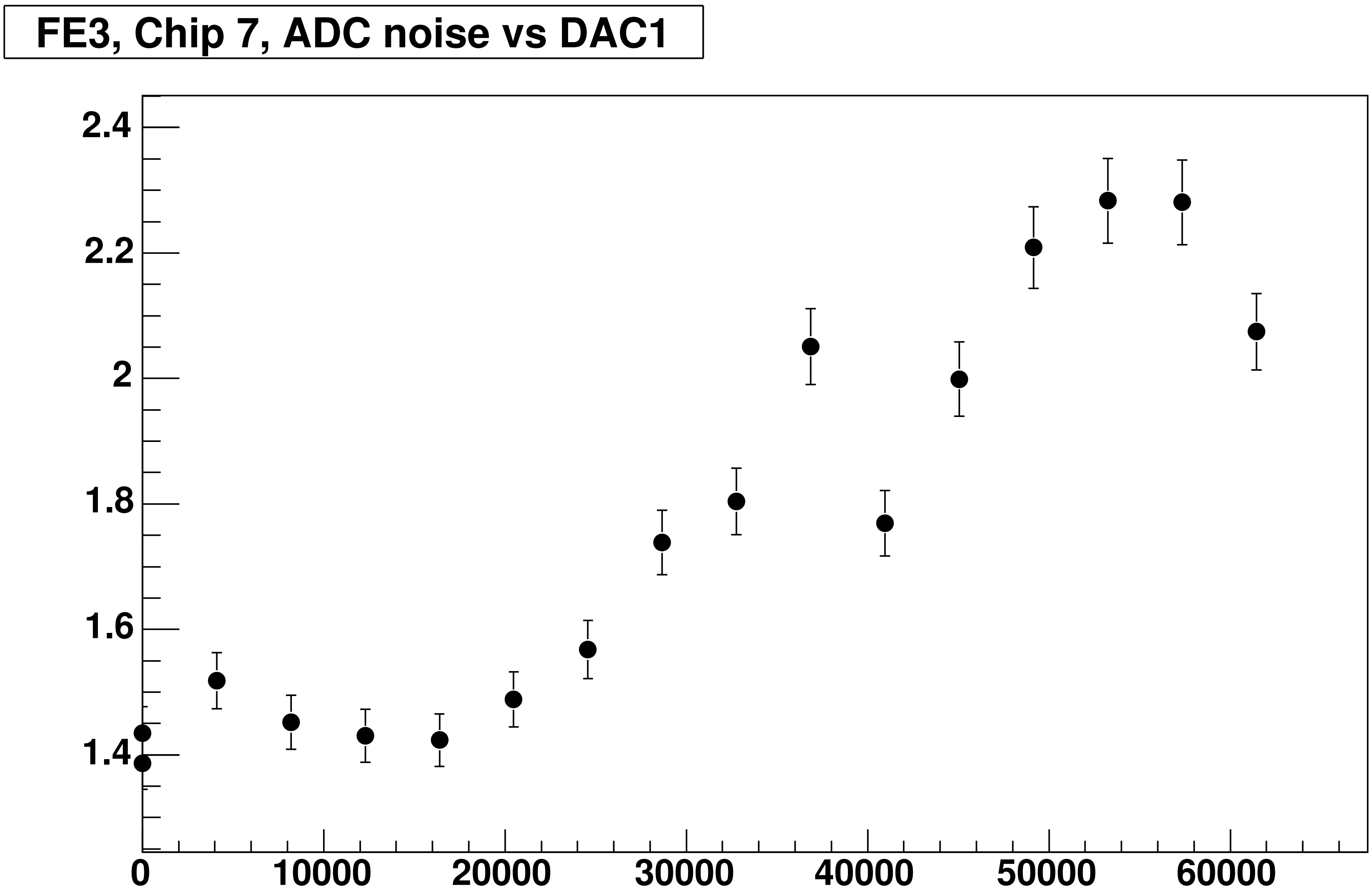


FE3, Chip 7, ADC noise vs DAC0
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

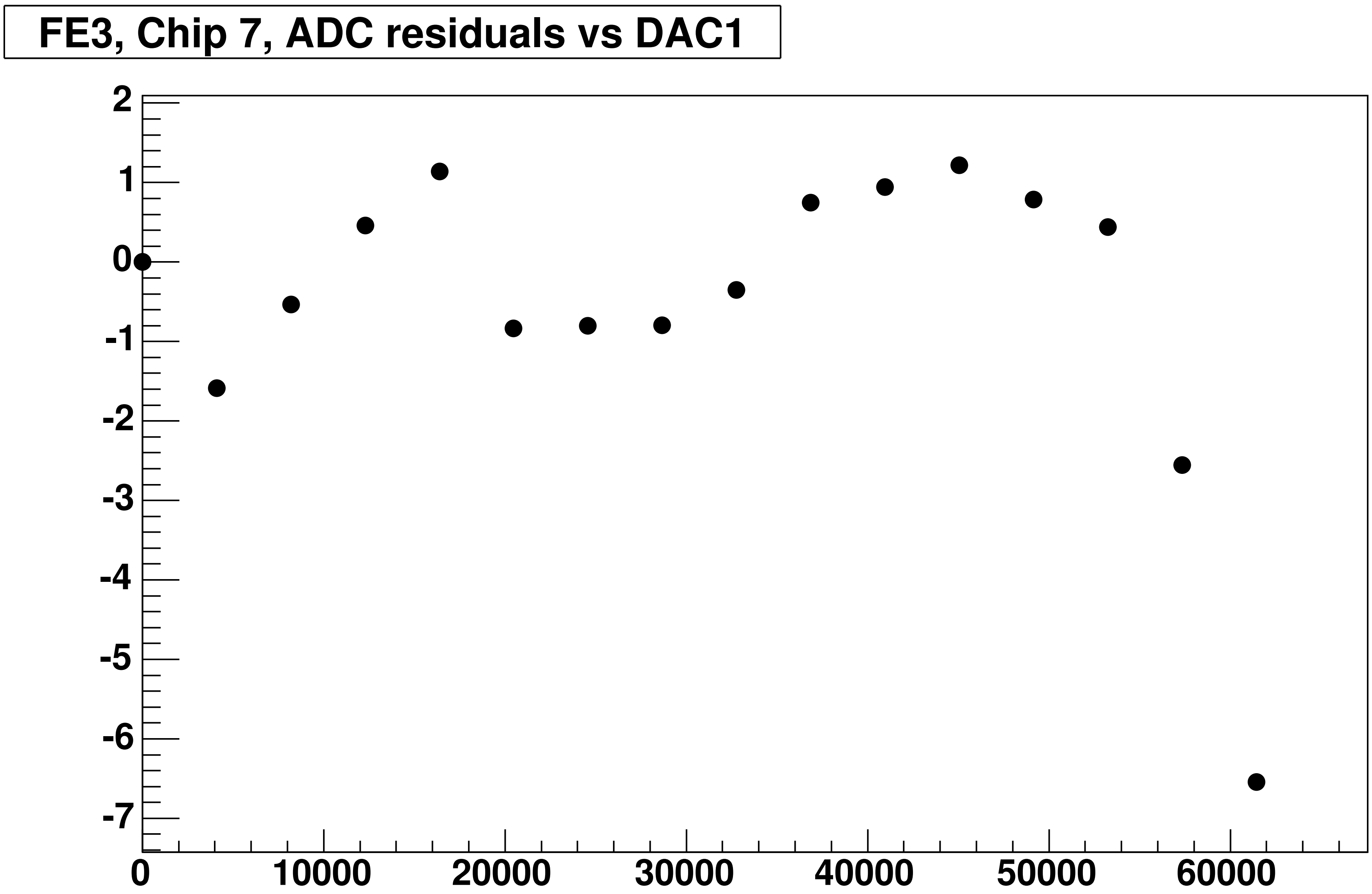

FE3, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

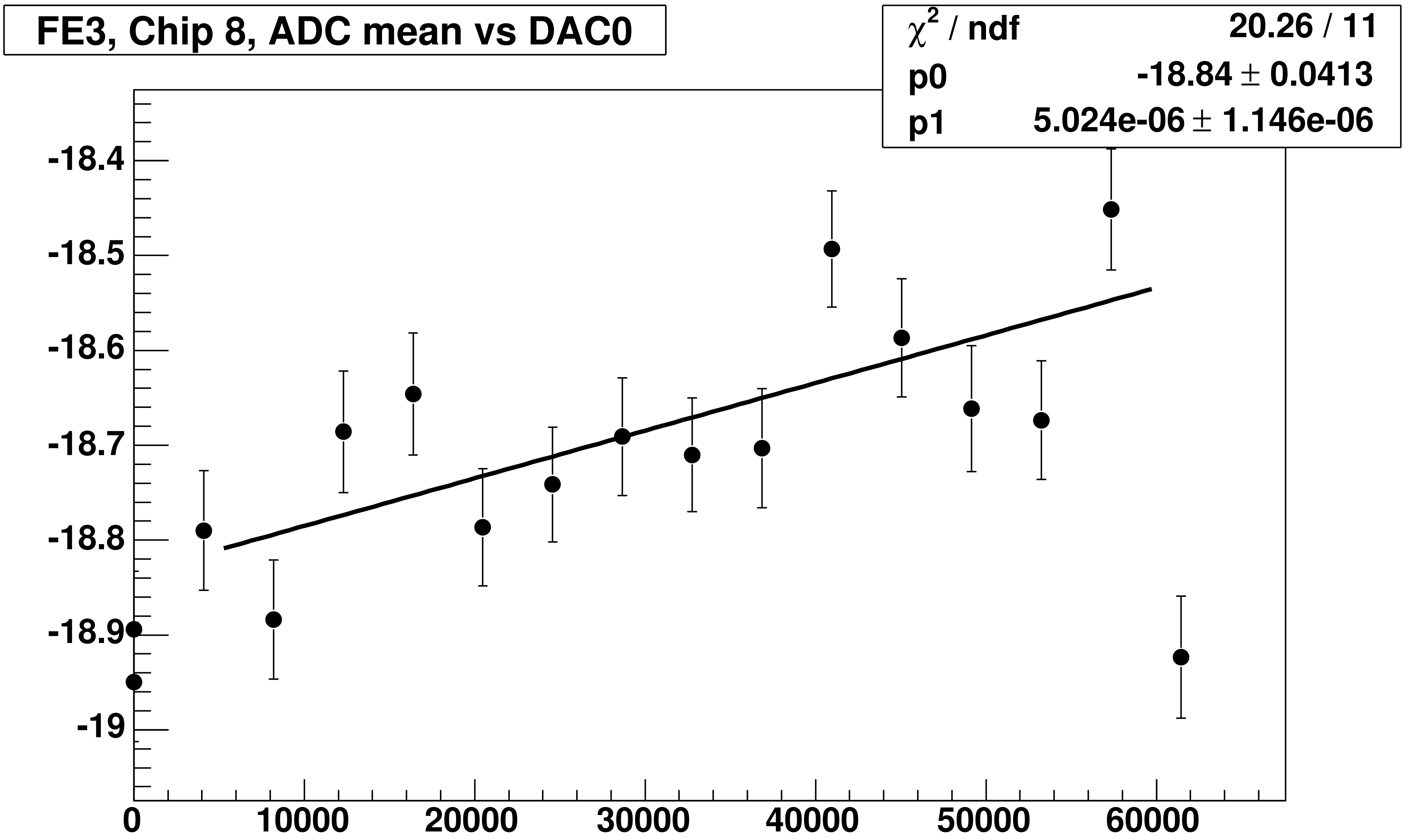


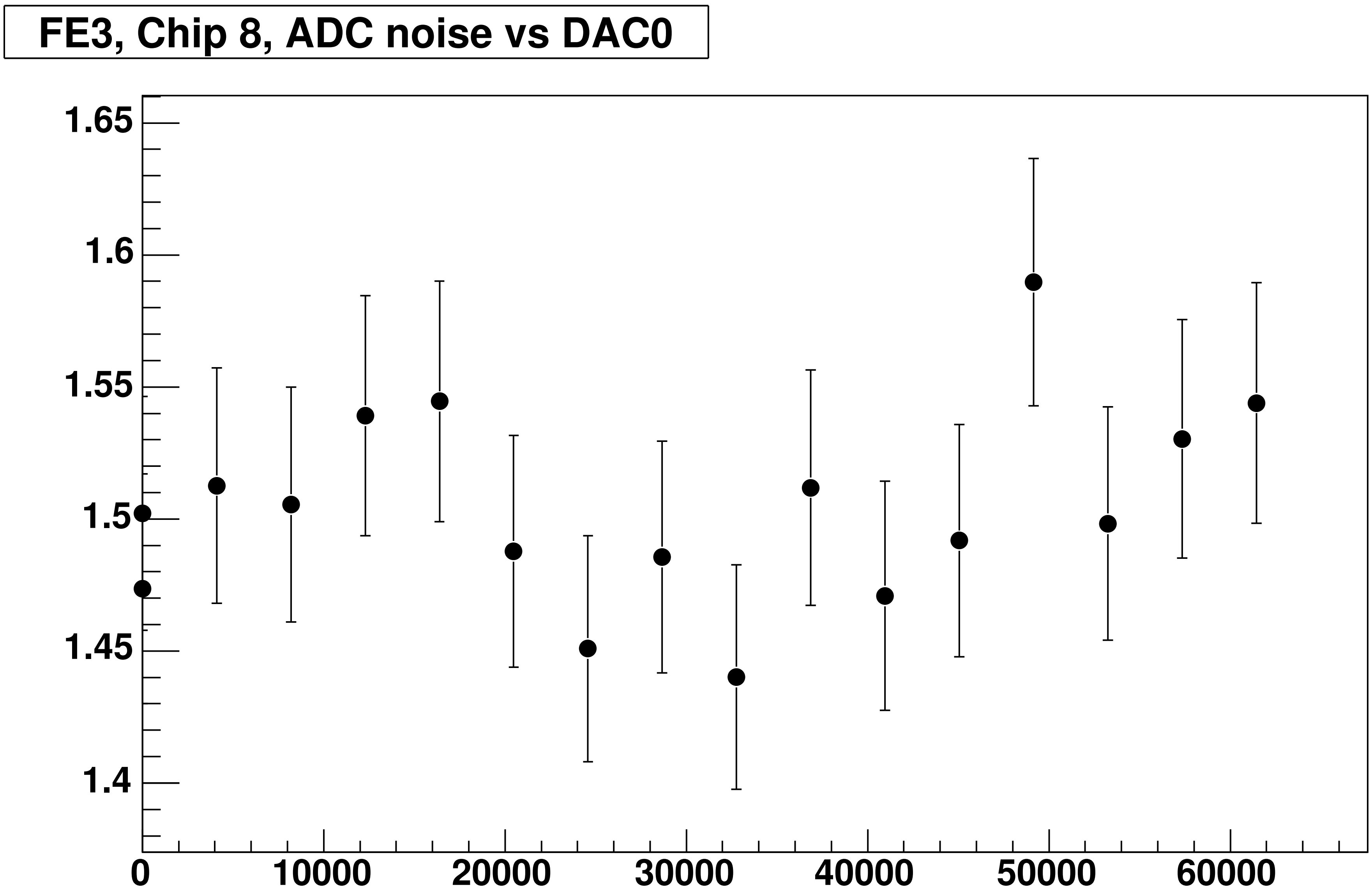
FE3, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2253 / 11
p0 -8.08 ± 0.0429
p1 0.4523 ± 1.362e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

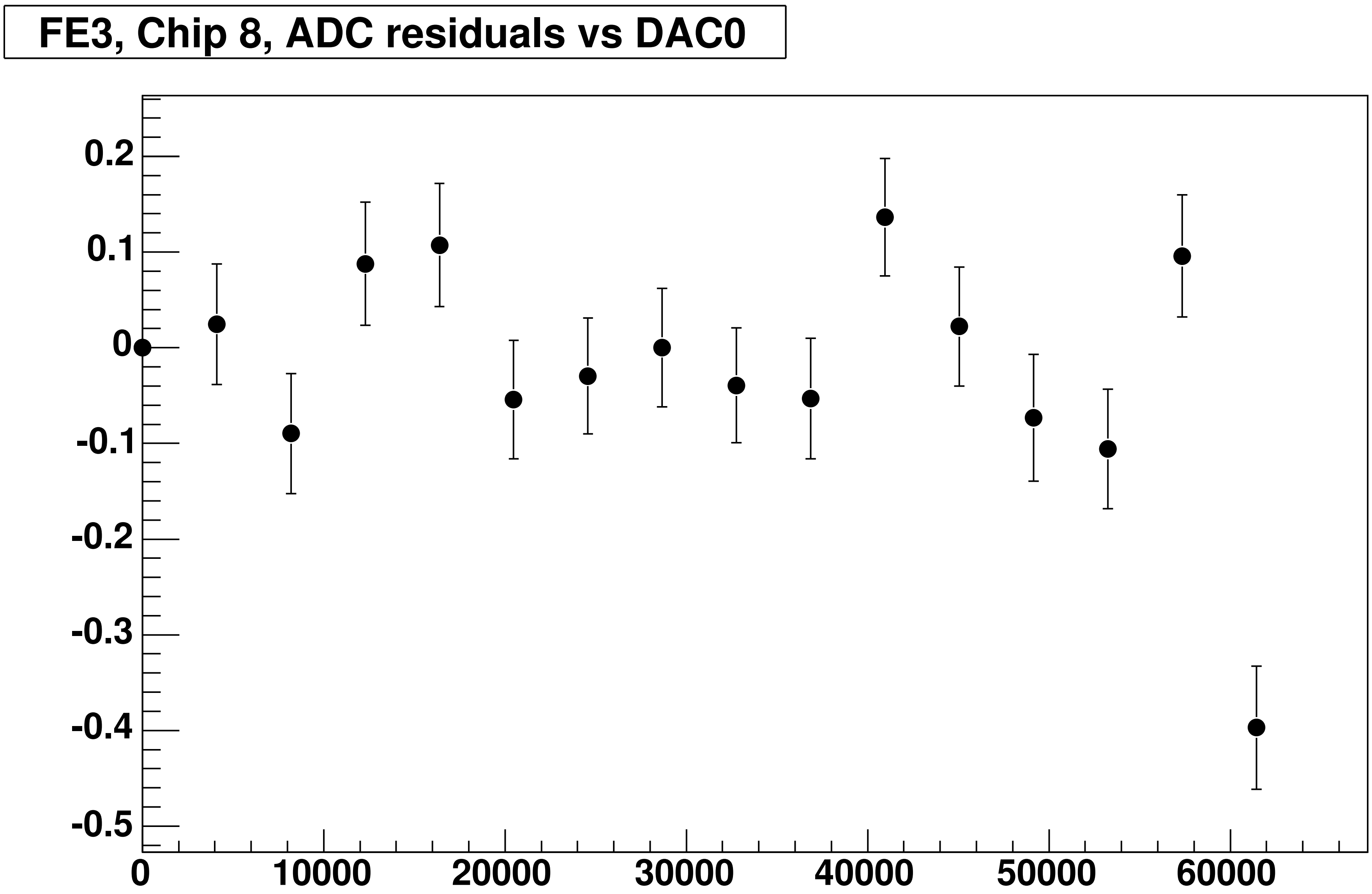


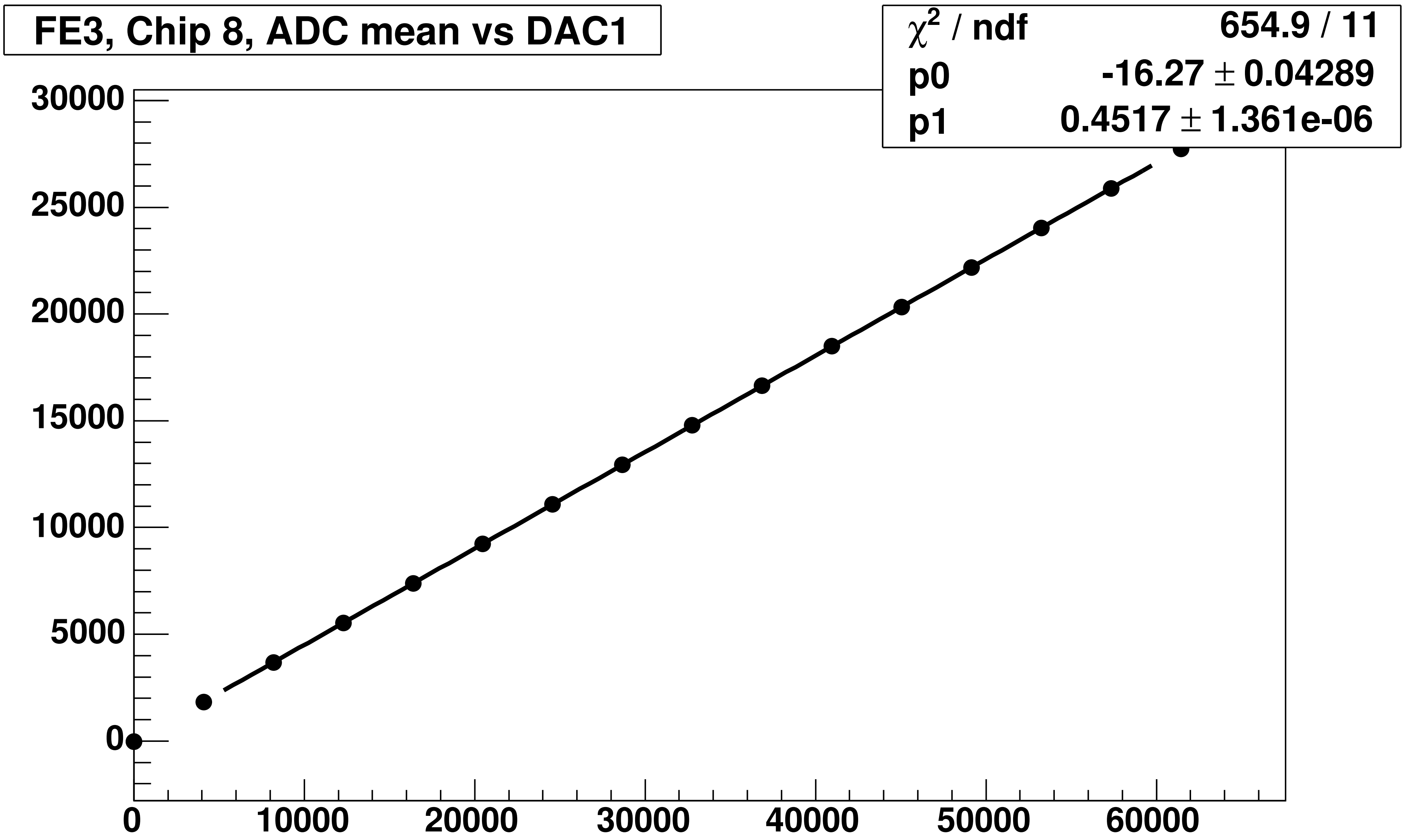
FE3, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

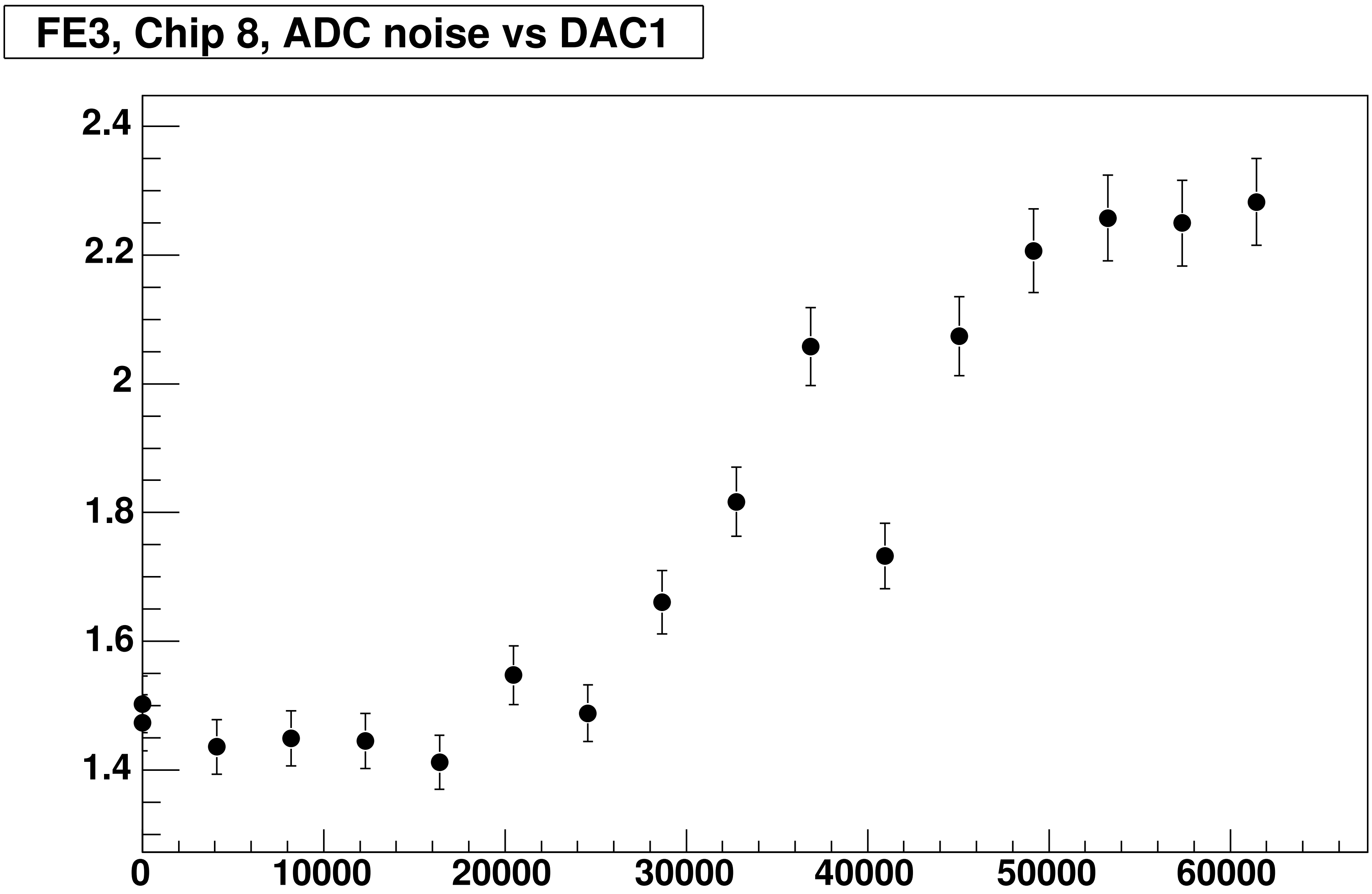

FE3, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

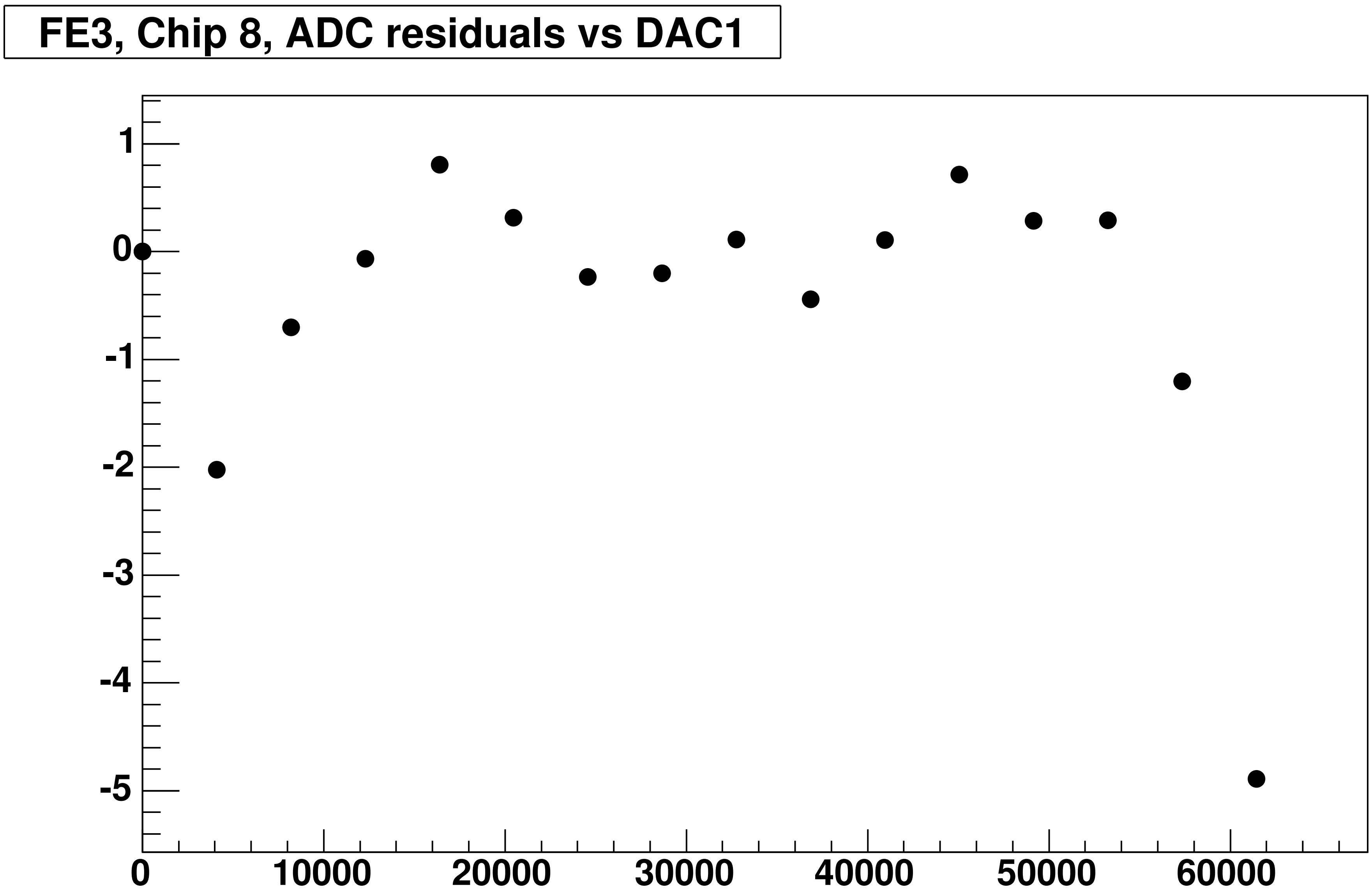

FE3, Chip 8, ADC mean vs DAC0
χ^2 / ndf 20.26 / 11
p0 -18.84 ± 0.0413
p1 5.024e-06 ± 1.146e-06
-18.4
-18.5
-18.6
-18.7
-18.8
-18.9
-19
0
10000
20000
30000
40000
50000
60000

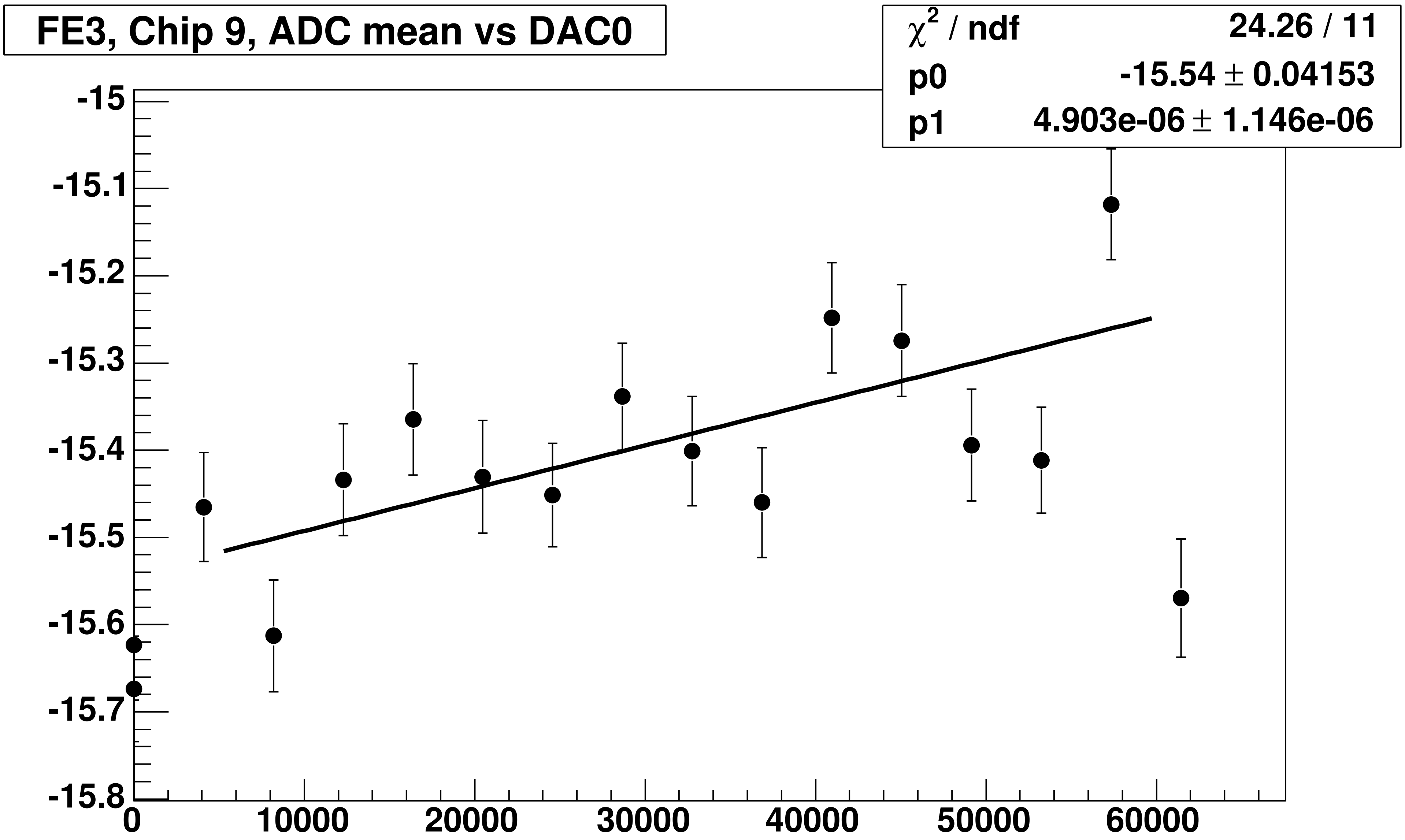

FE3, Chip 8, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

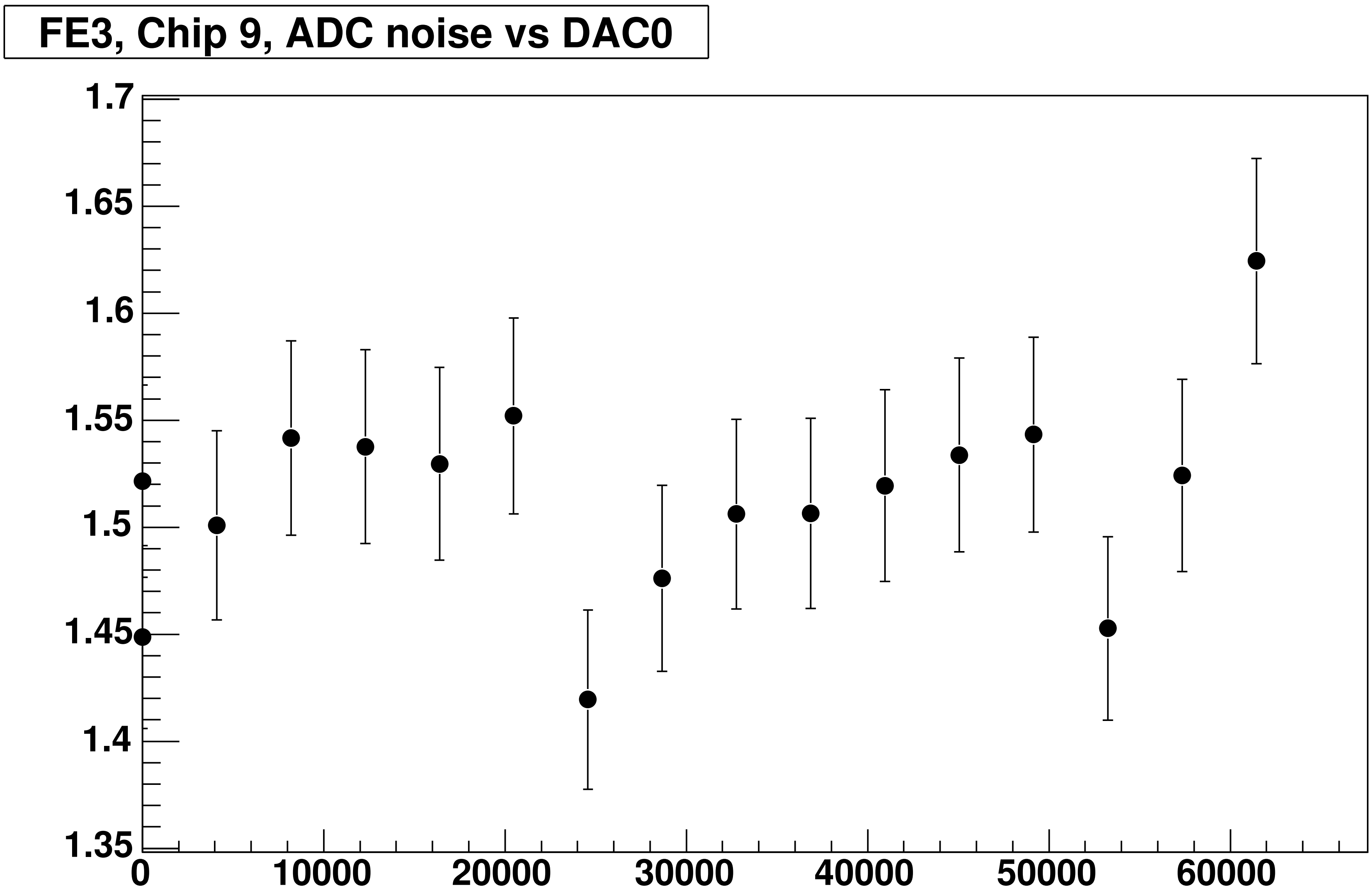

FE3, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000


FE3, Chip 8, ADC mean vs DAC1
χ^2 / ndf 654.9 / 11
p0 -16.27 ± 0.04289
p1 0.4517 ± 1.361e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

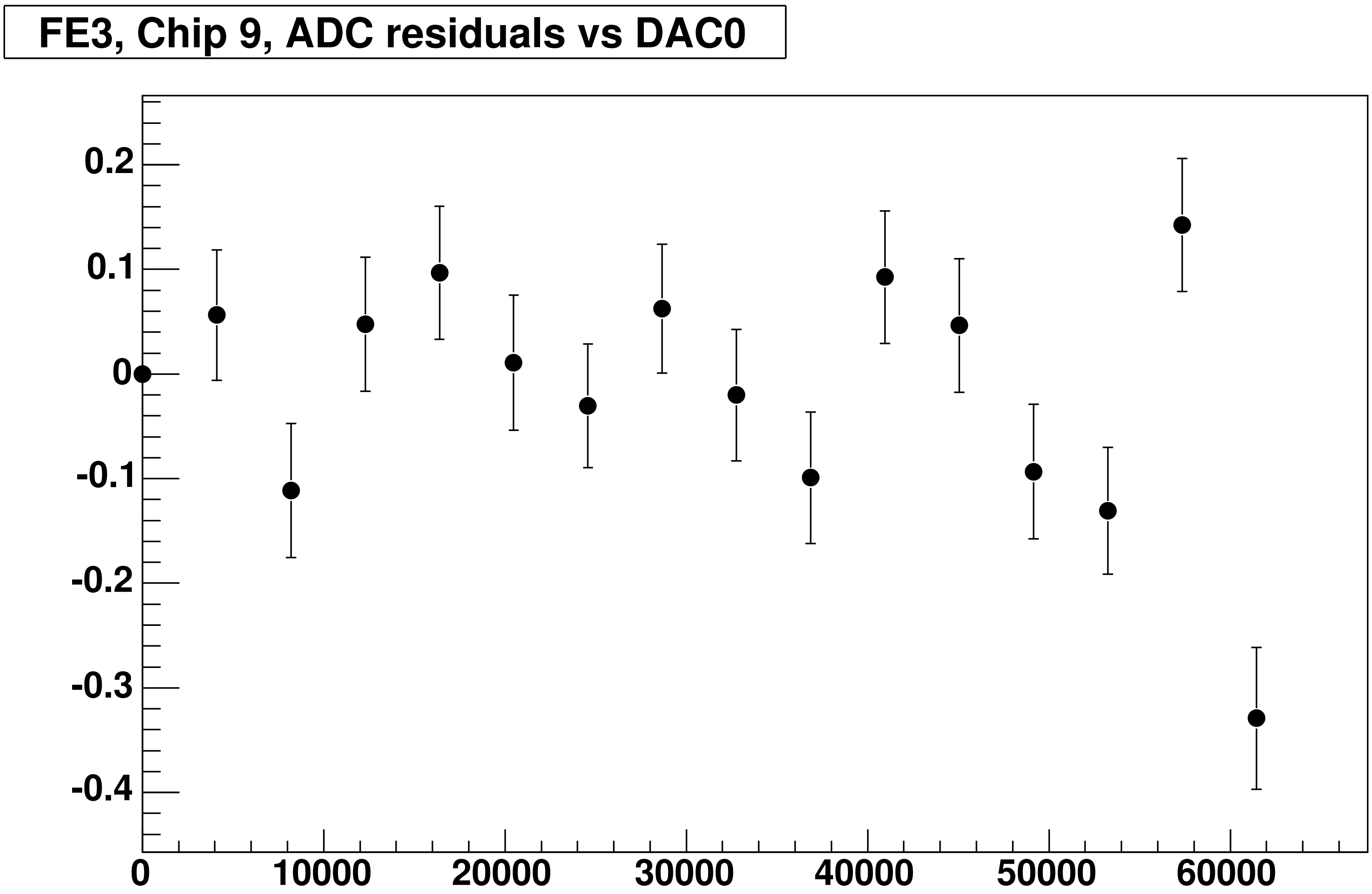

FE3, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

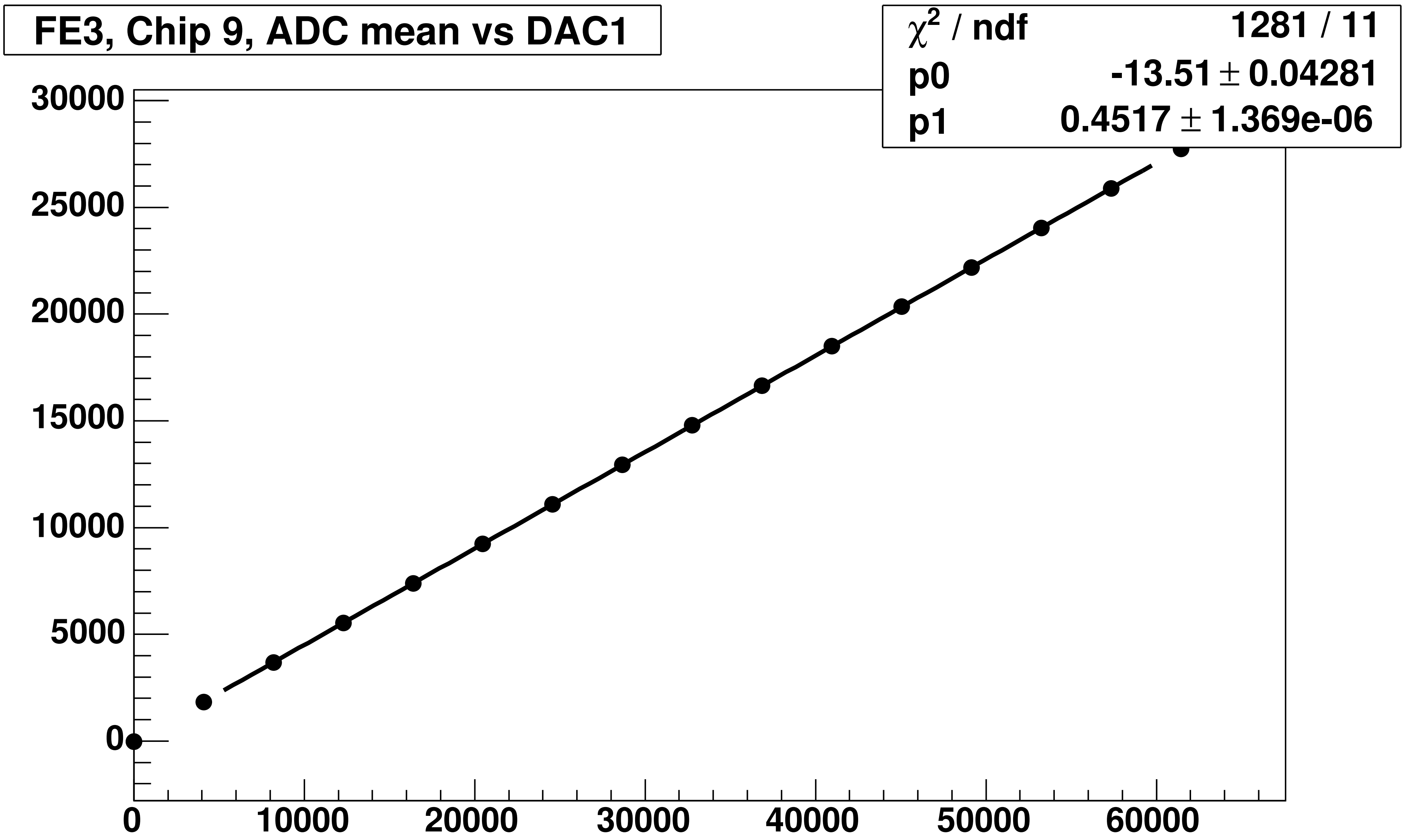

FE3, Chip 9, ADC mean vs DAC0
χ^2 / ndf 24.26 / 11
p0 -15.54 ± 0.04153
p1 4.903e-06 ± 1.146e-06
-15
-15.1
-15.2
-15.3
-15.4
-15.5
-15.6
-15.7
-15.8
0
10000
20000
30000
40000
50000
60000



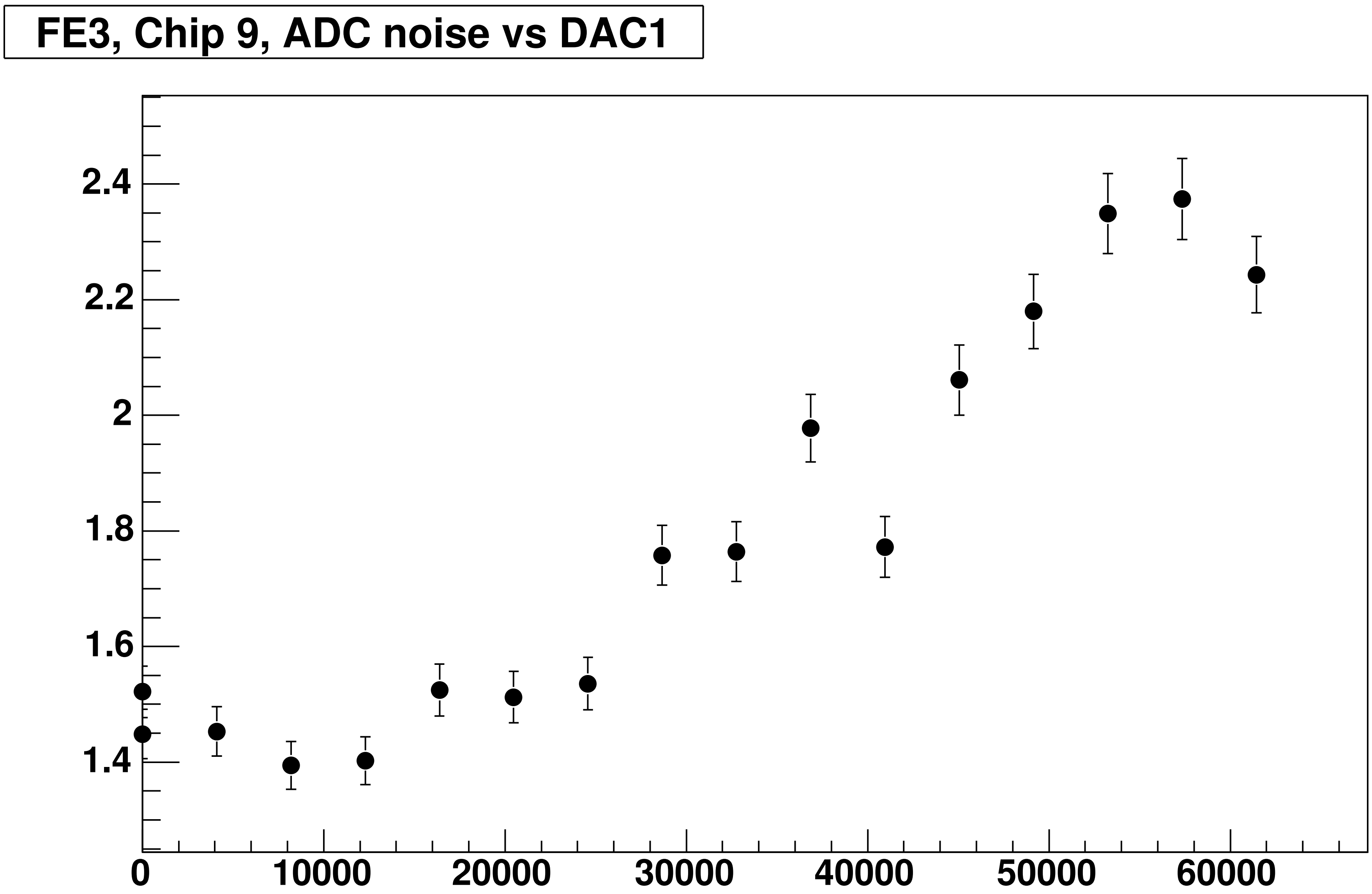
FE3, Chip 9, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

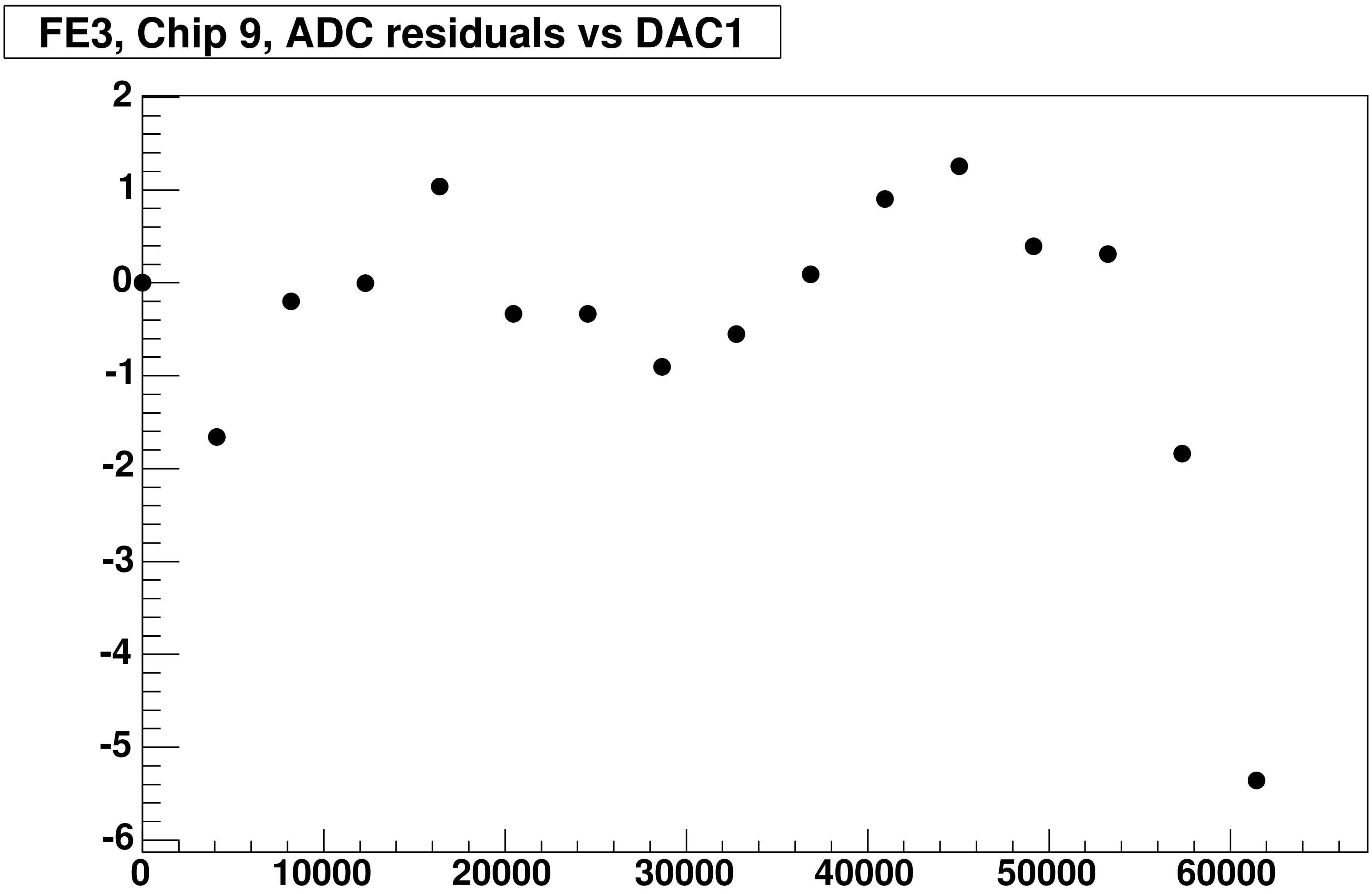


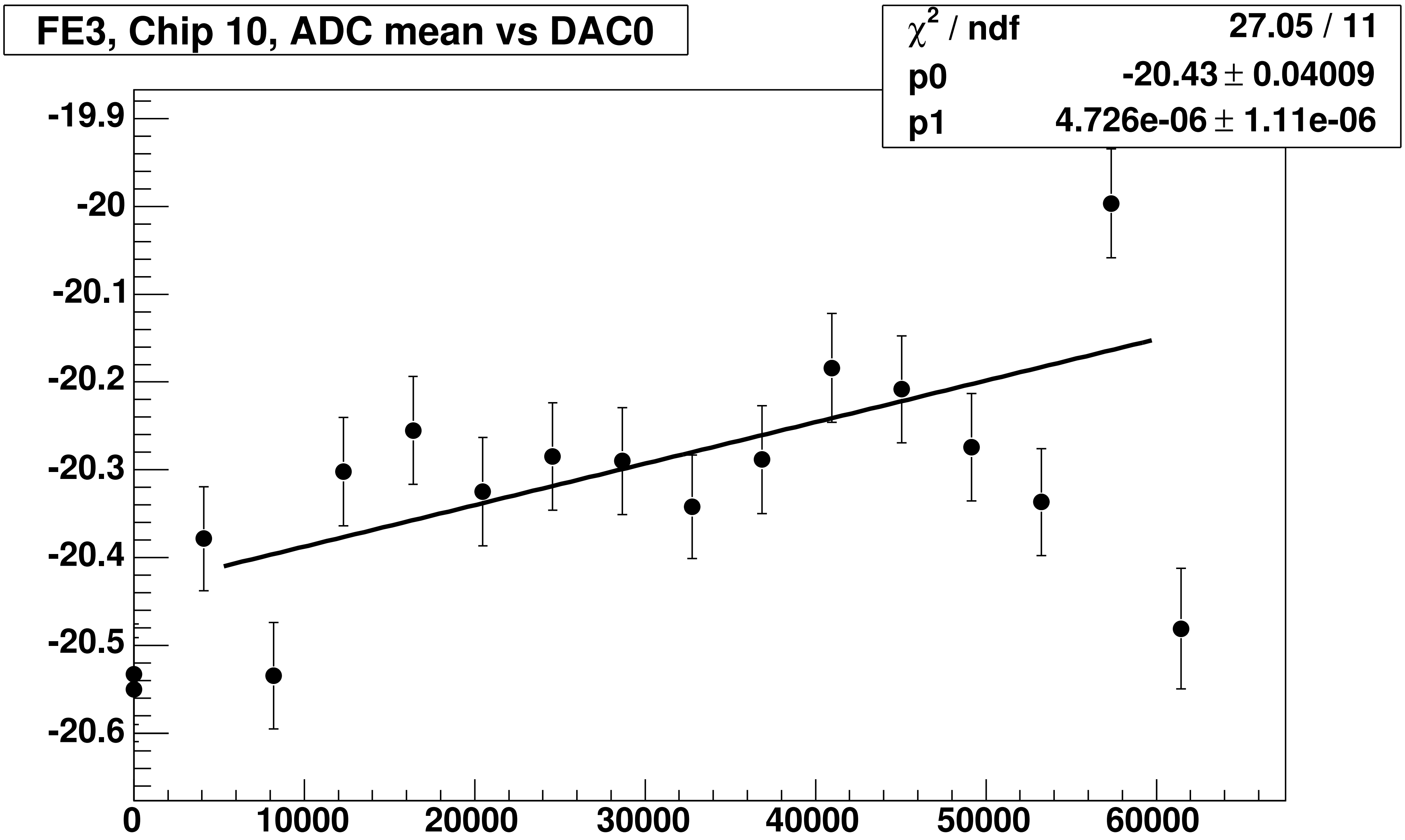
FE3, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



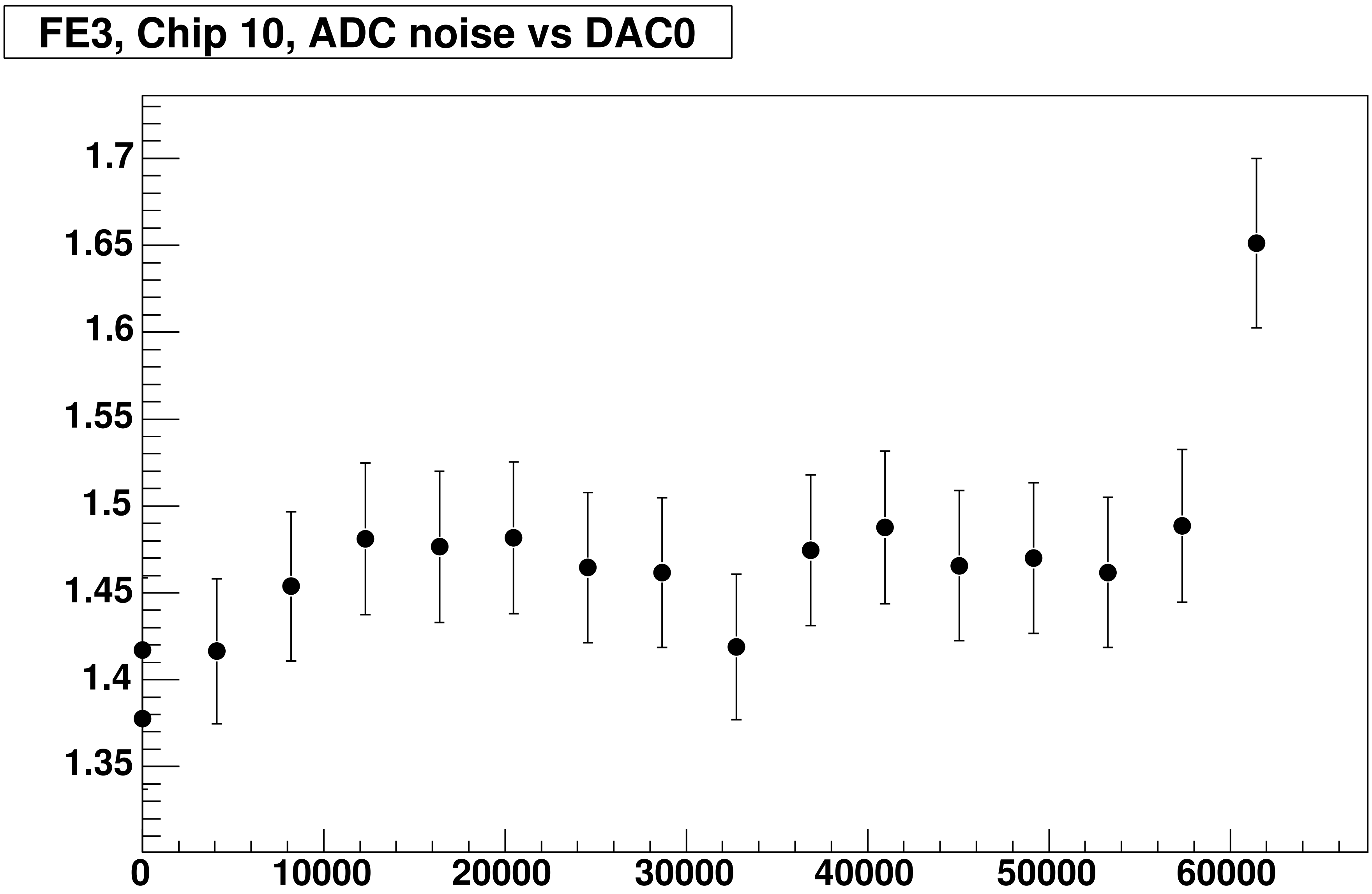
FE3, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1281 / 11
p0 -13.51 ± 0.04281
p1 0.4517 ± 1.369e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

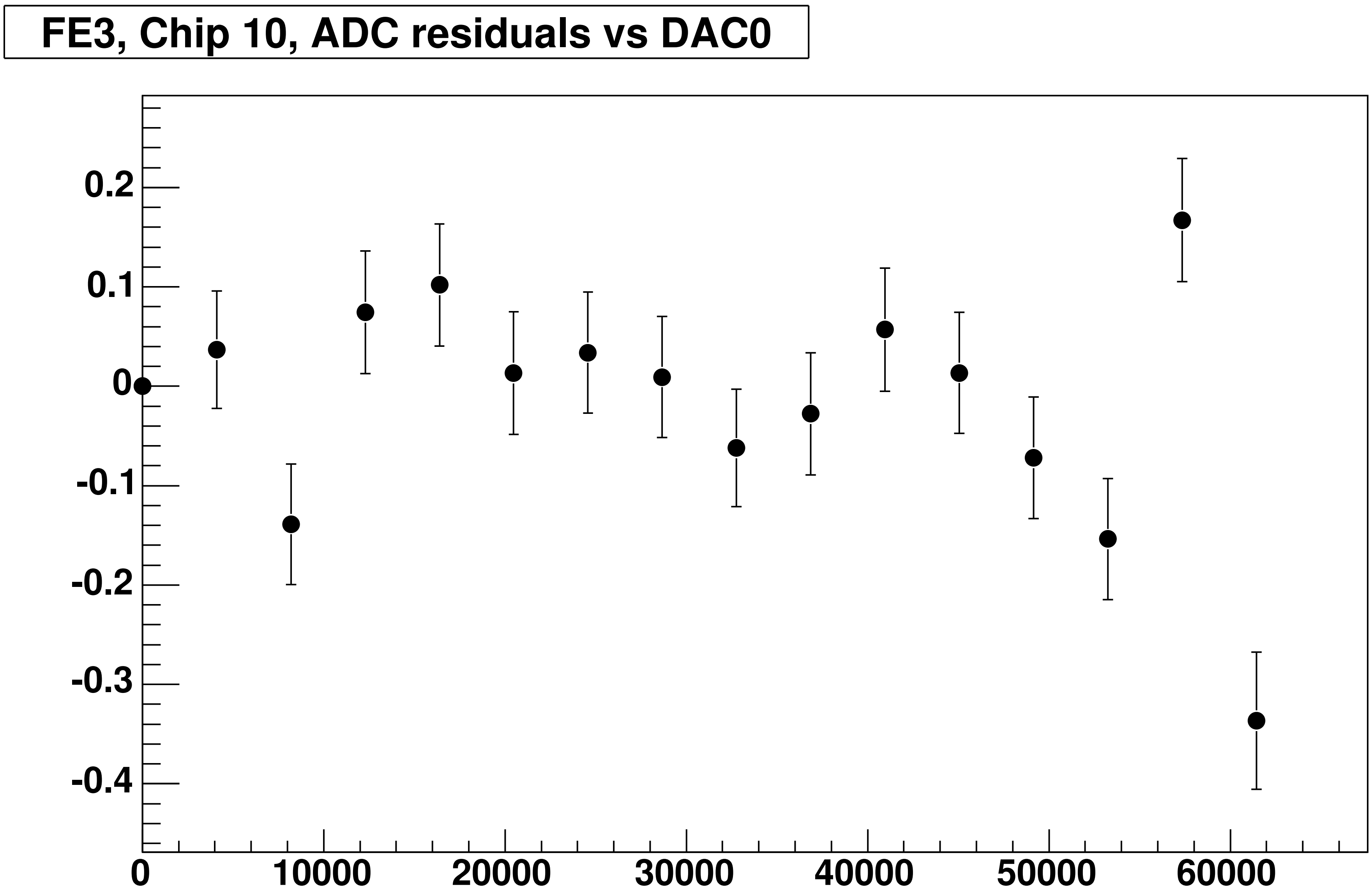

FE3, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



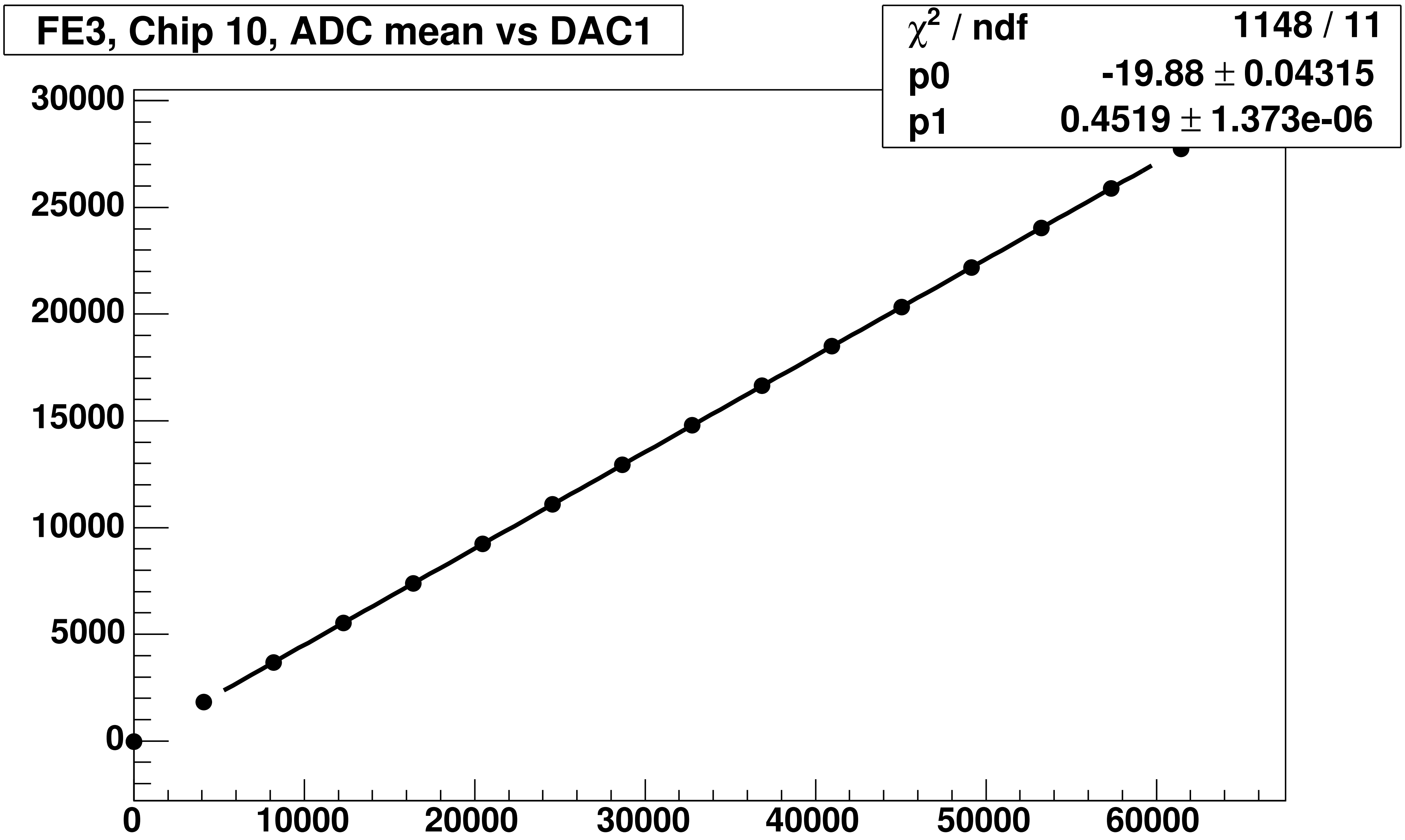
FE3, Chip 10, ADC mean vs DAC0
χ^2 / ndf 27.05 / 11
p0 -20.43 ± 0.04009
p1 4.726e-06 ± 1.11e-06
-19.9
-20
-20.1
-20.2
-20.3
-20.4
-20.5
-20.6
0
10000
20000
30000
40000
50000
60000

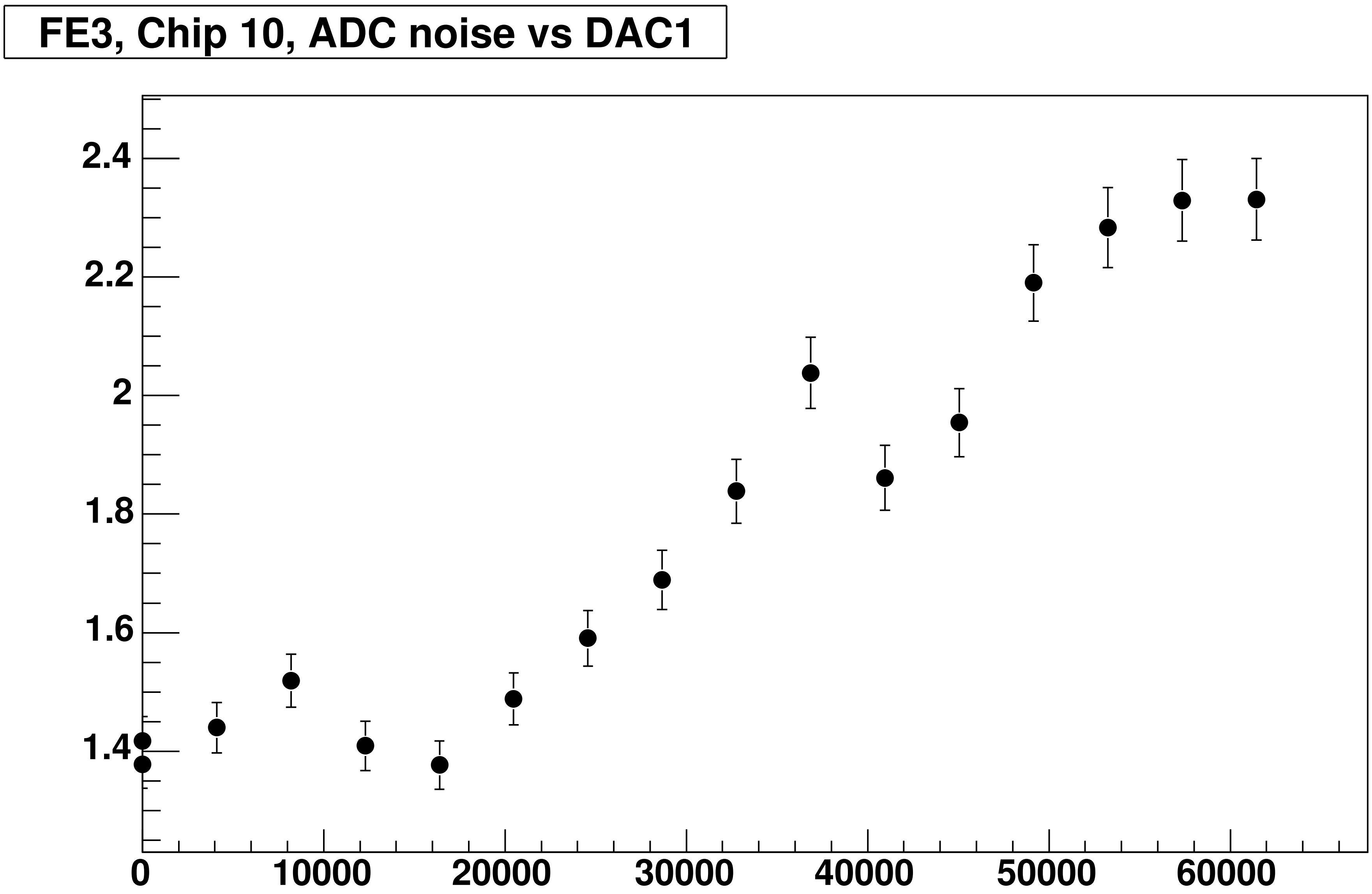


FE3, Chip 10, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

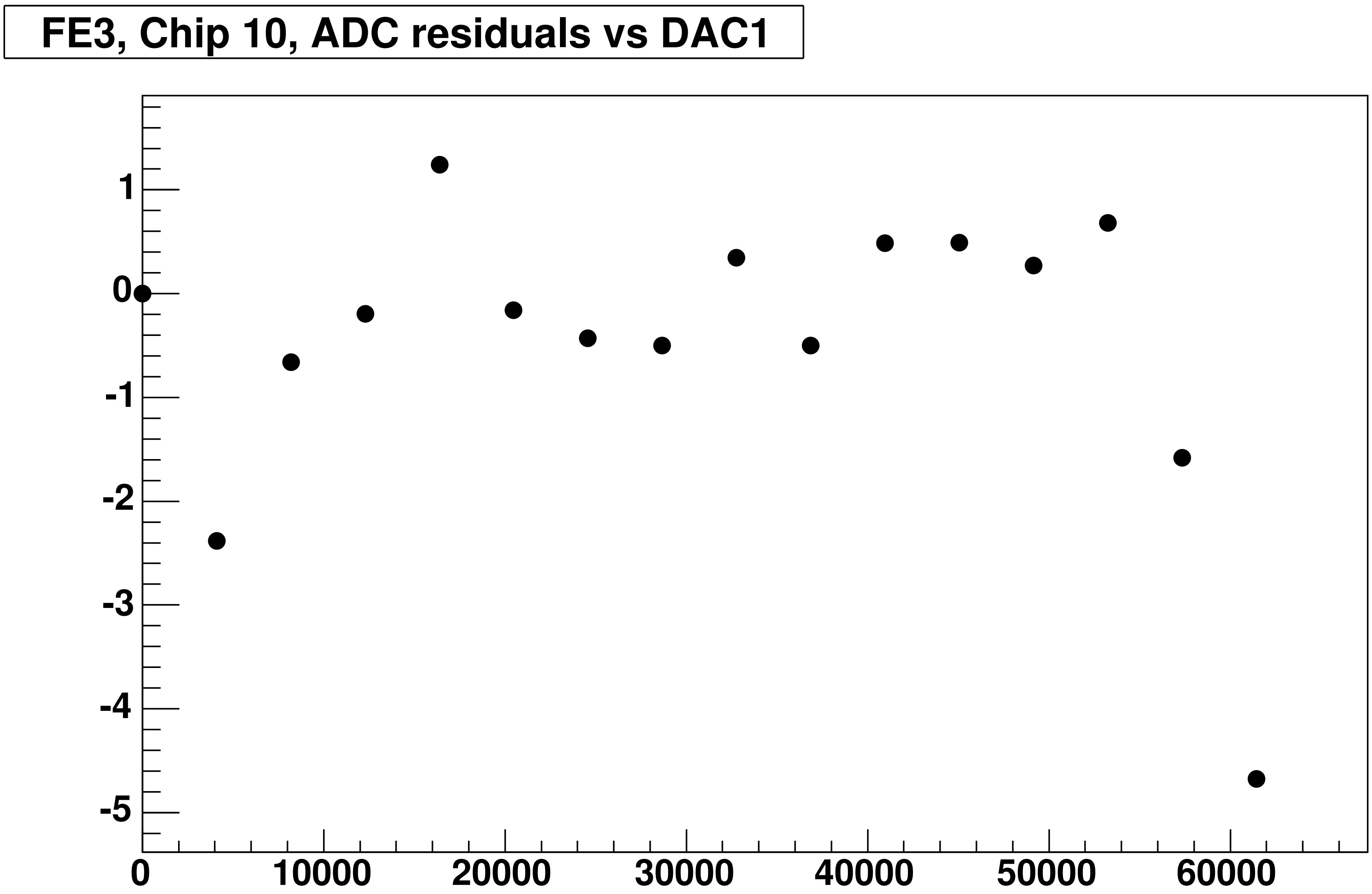


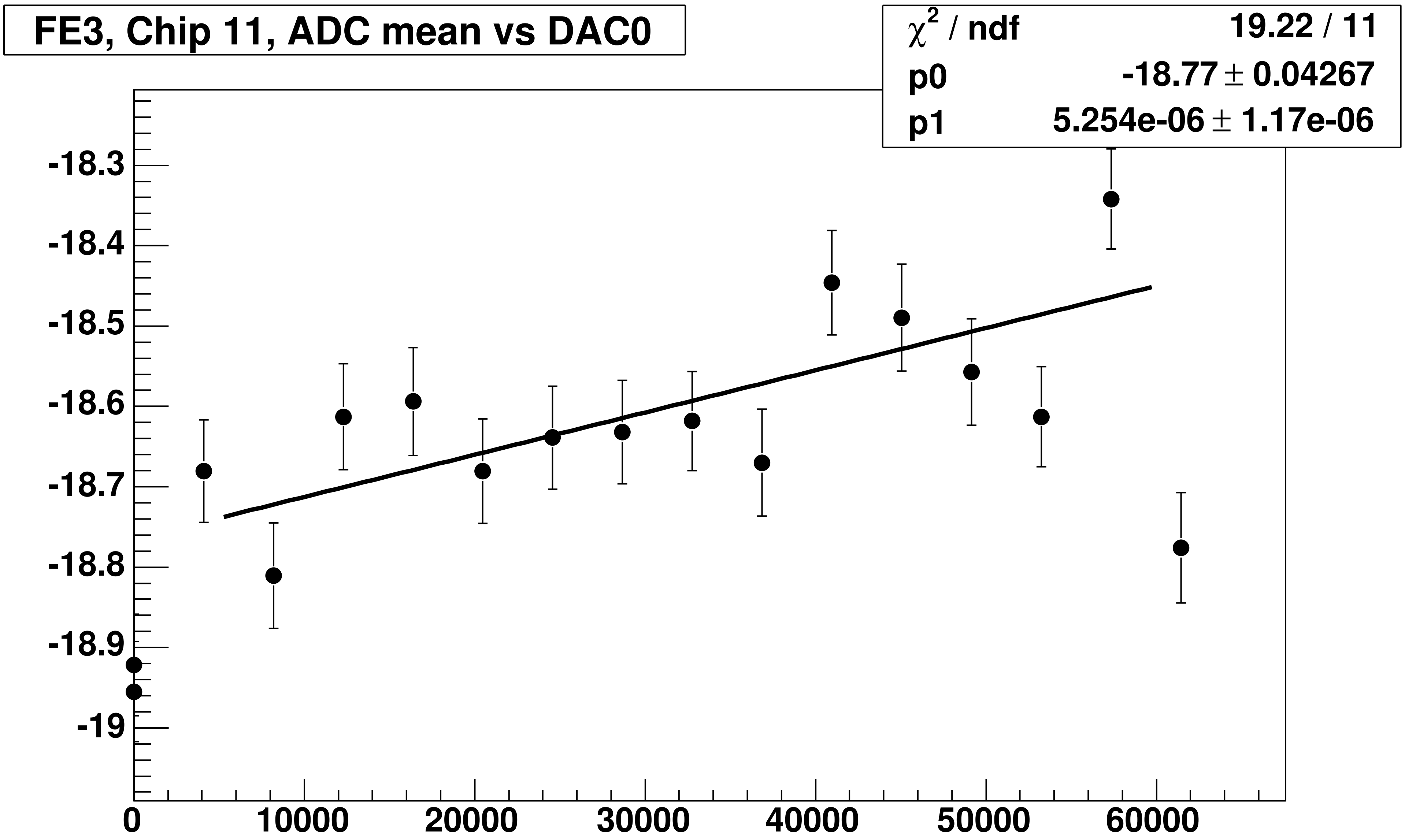
FE3, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000


FE3, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1148 / 11
p0 -19.88 ± 0.04315
p1 0.4519 ± 1.373e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

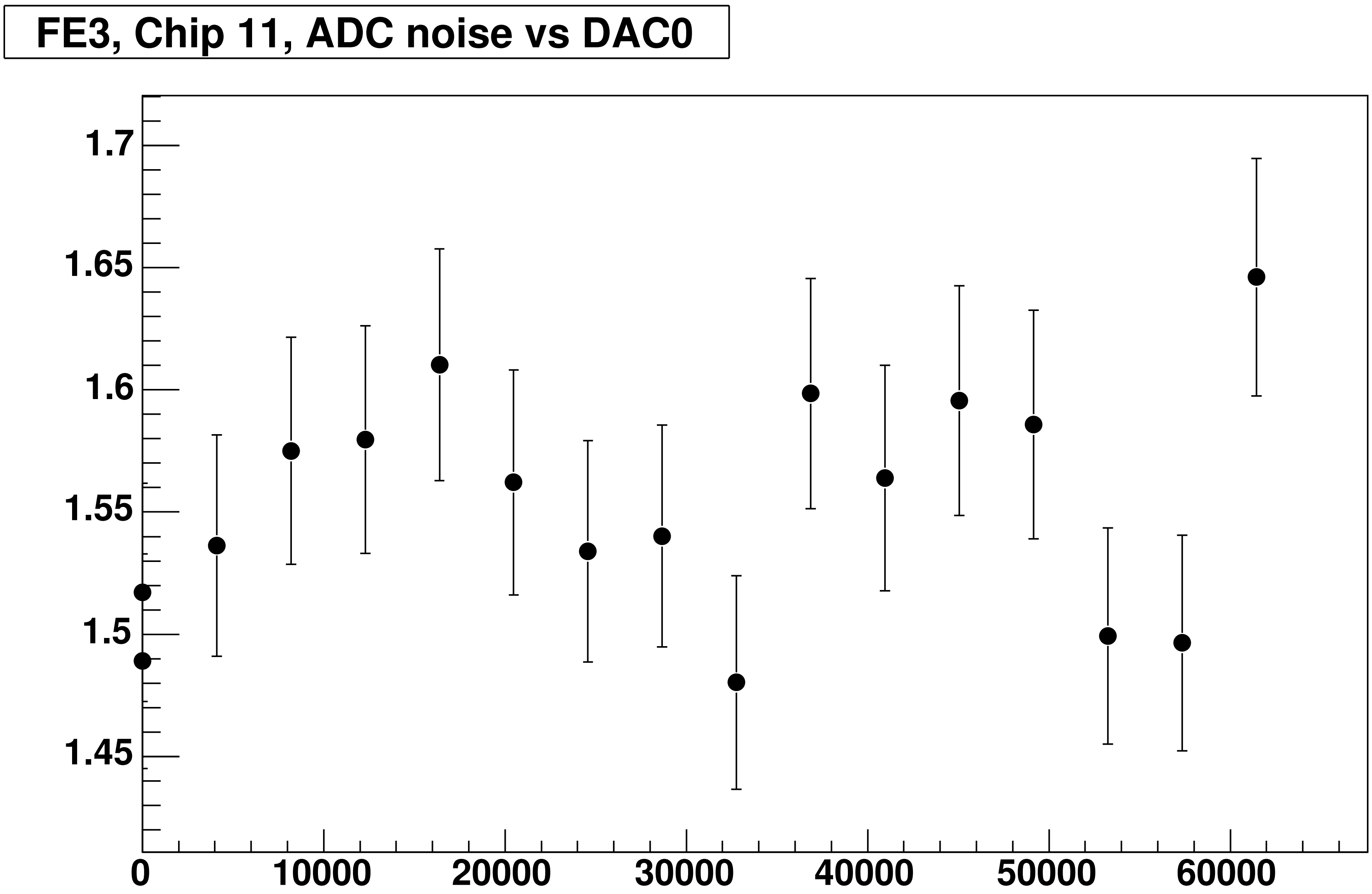


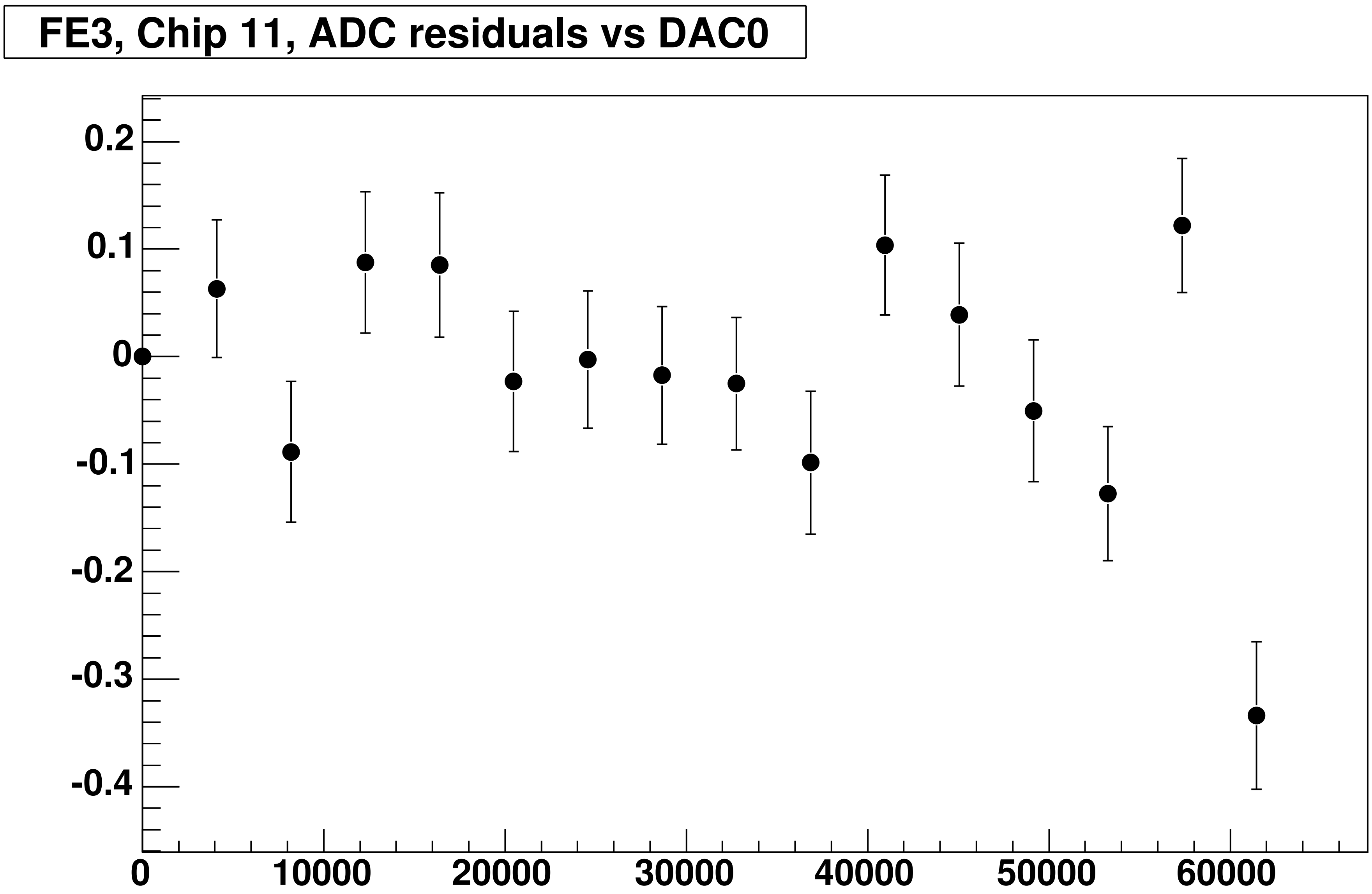
FE3, Chip 10, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

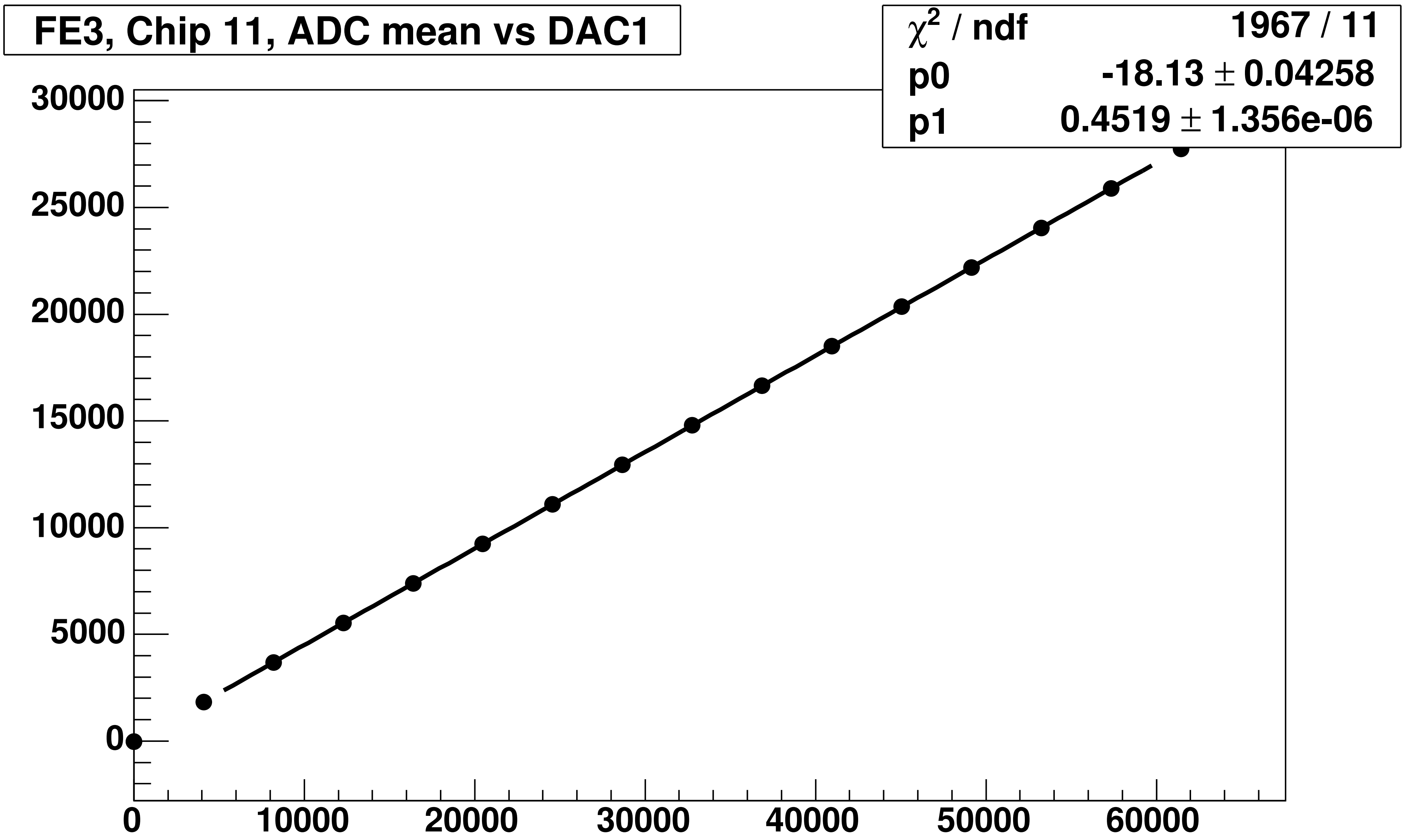

FE3, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



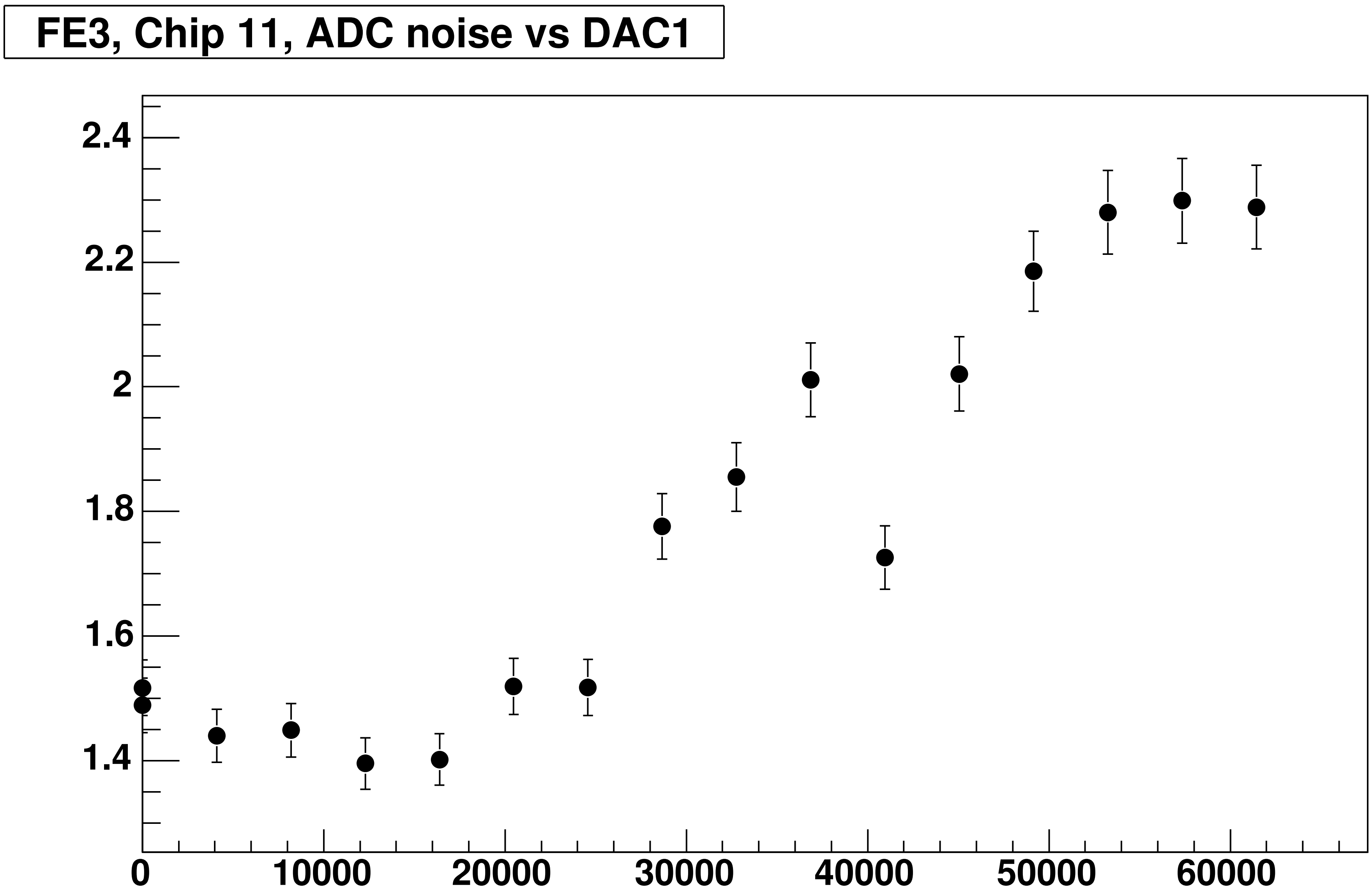
FE3, Chip 11, ADC mean vs DAC0
χ^2 / ndf 19.22 / 11
p0 -18.77 ± 0.04267
p1 5.254e-06 ± 1.17e-06
-18.3
-18.4
-18.5
-18.6
-18.7
-18.8
-18.9
-19
0
10000
20000
30000
40000
50000
60000

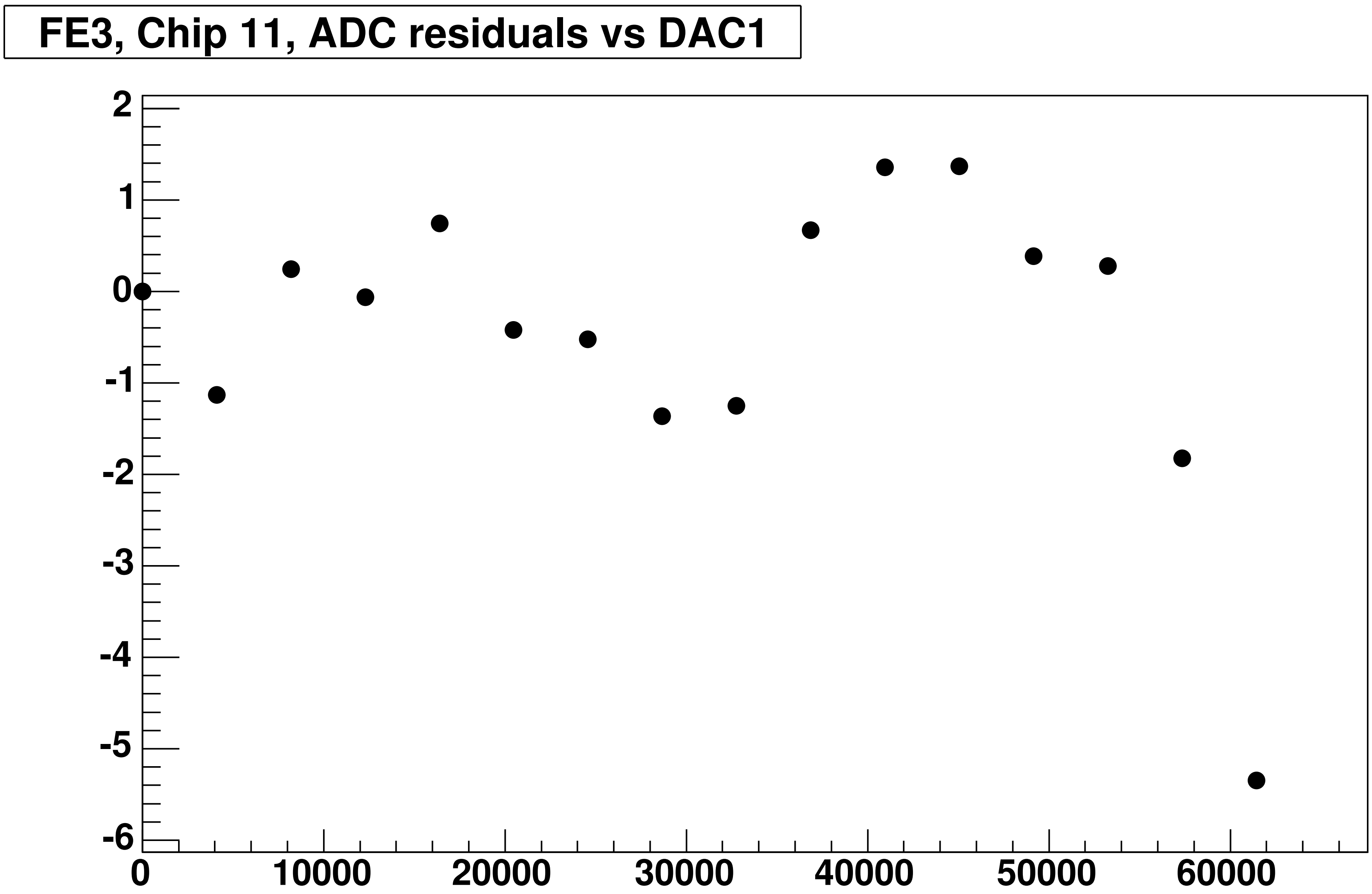

FE3, Chip 11, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000


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

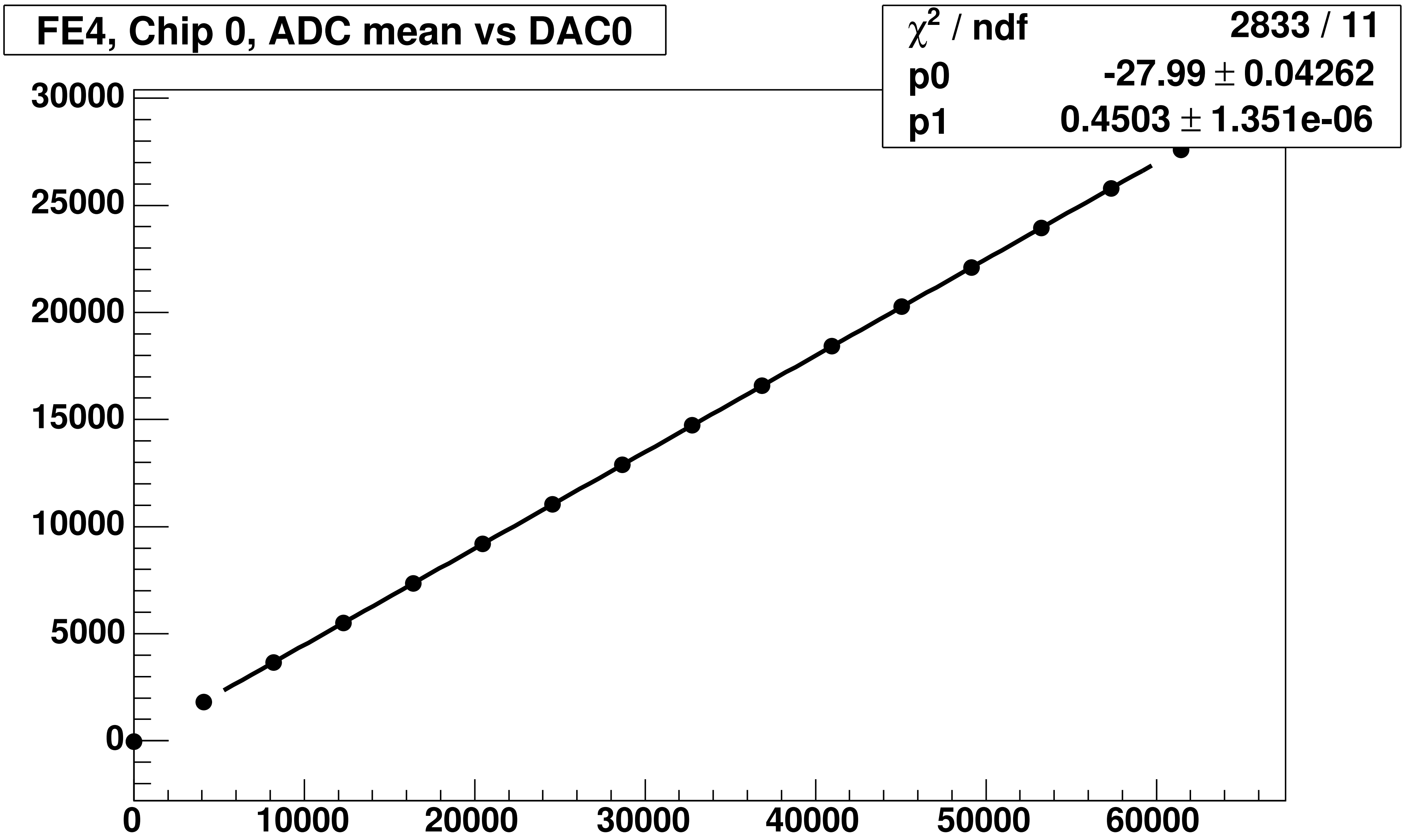


FE3, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1967 / 11
p0 -18.13 ± 0.04258
p1 0.4519 ± 1.356e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

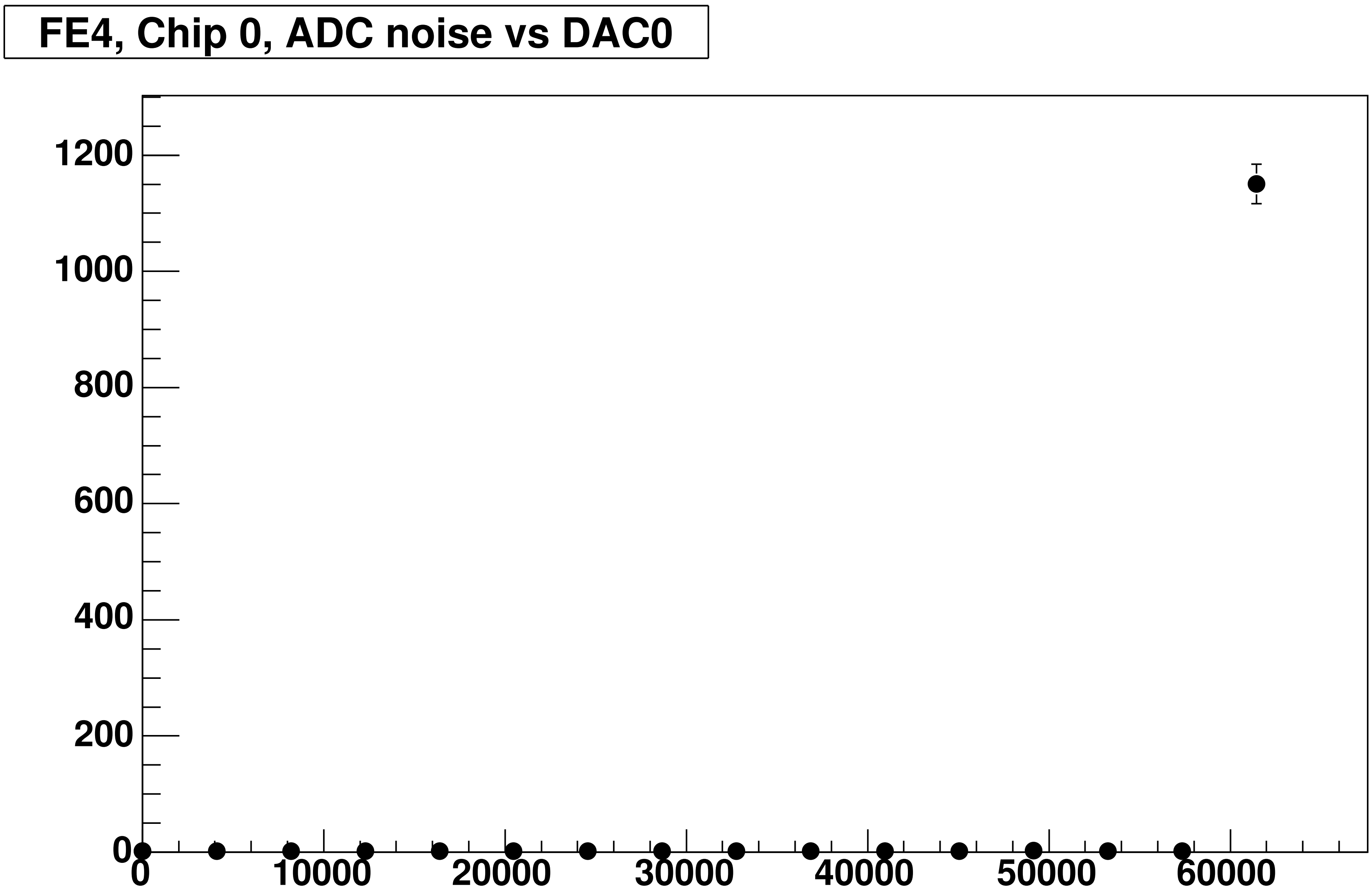

FE3, Chip 11, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

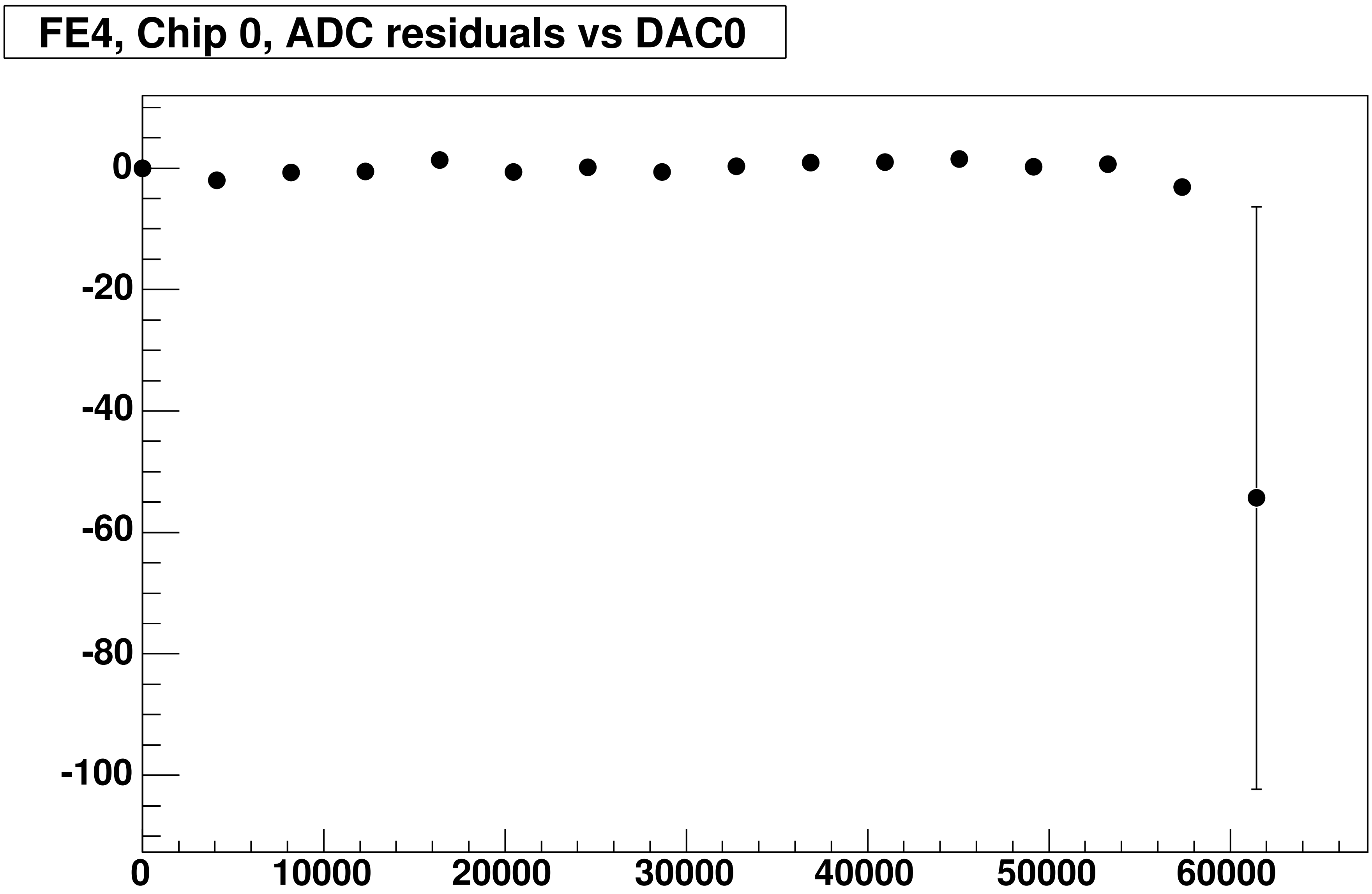


FE3, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

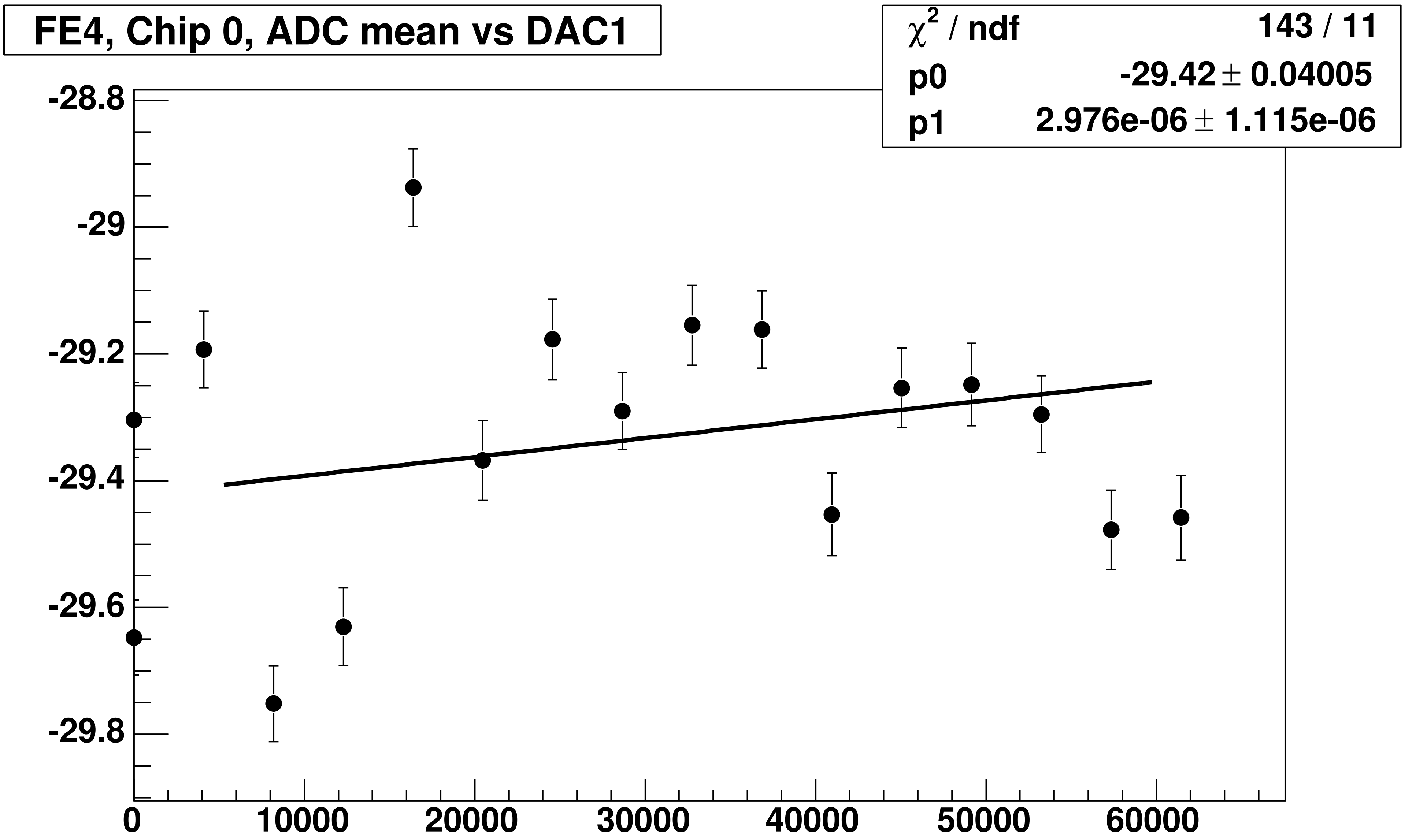


FE4, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2833 / 11
p0 -27.99 ± 0.04262
p1 0.4503 ± 1.351e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

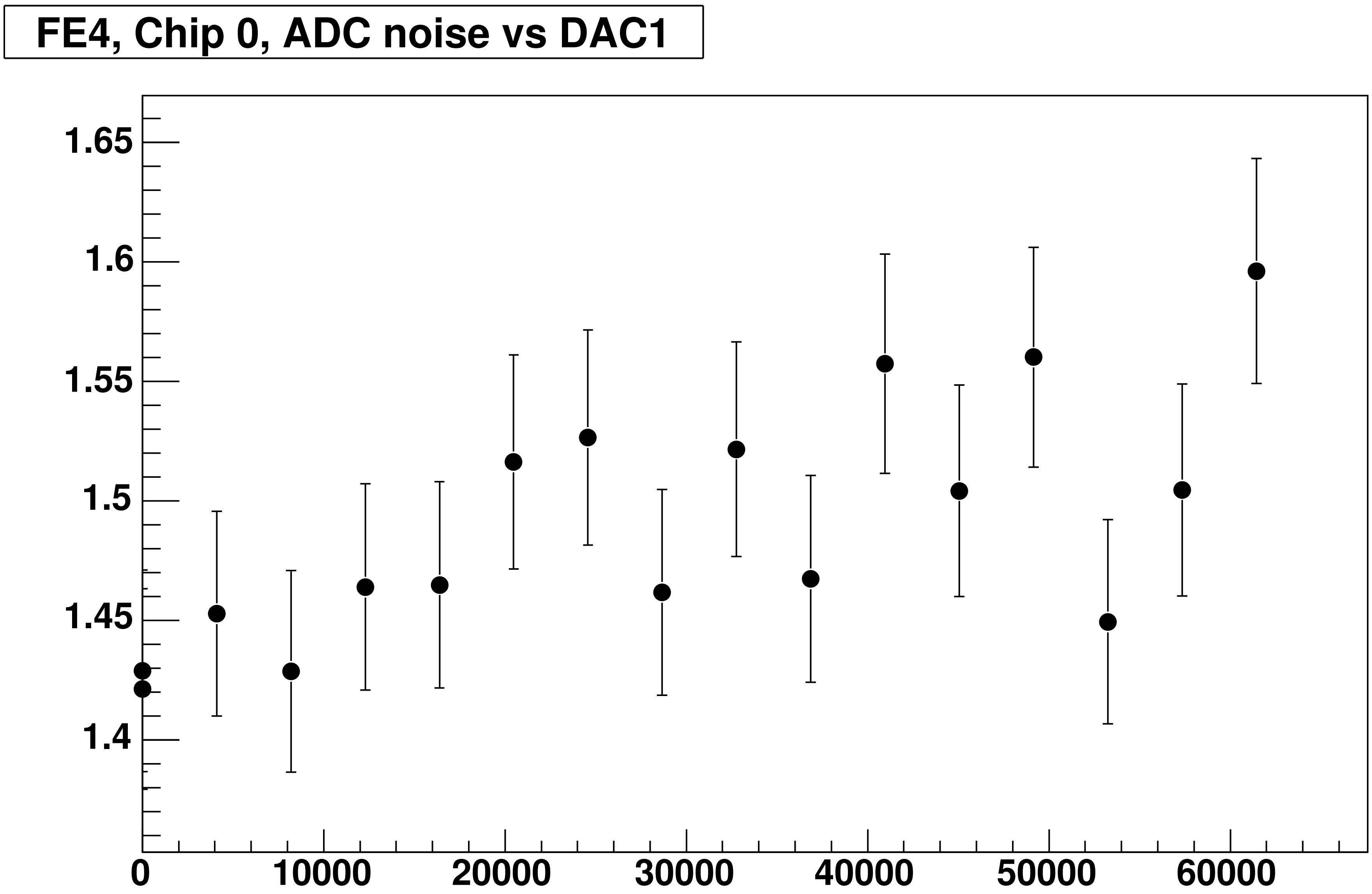

FE4, Chip 0, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

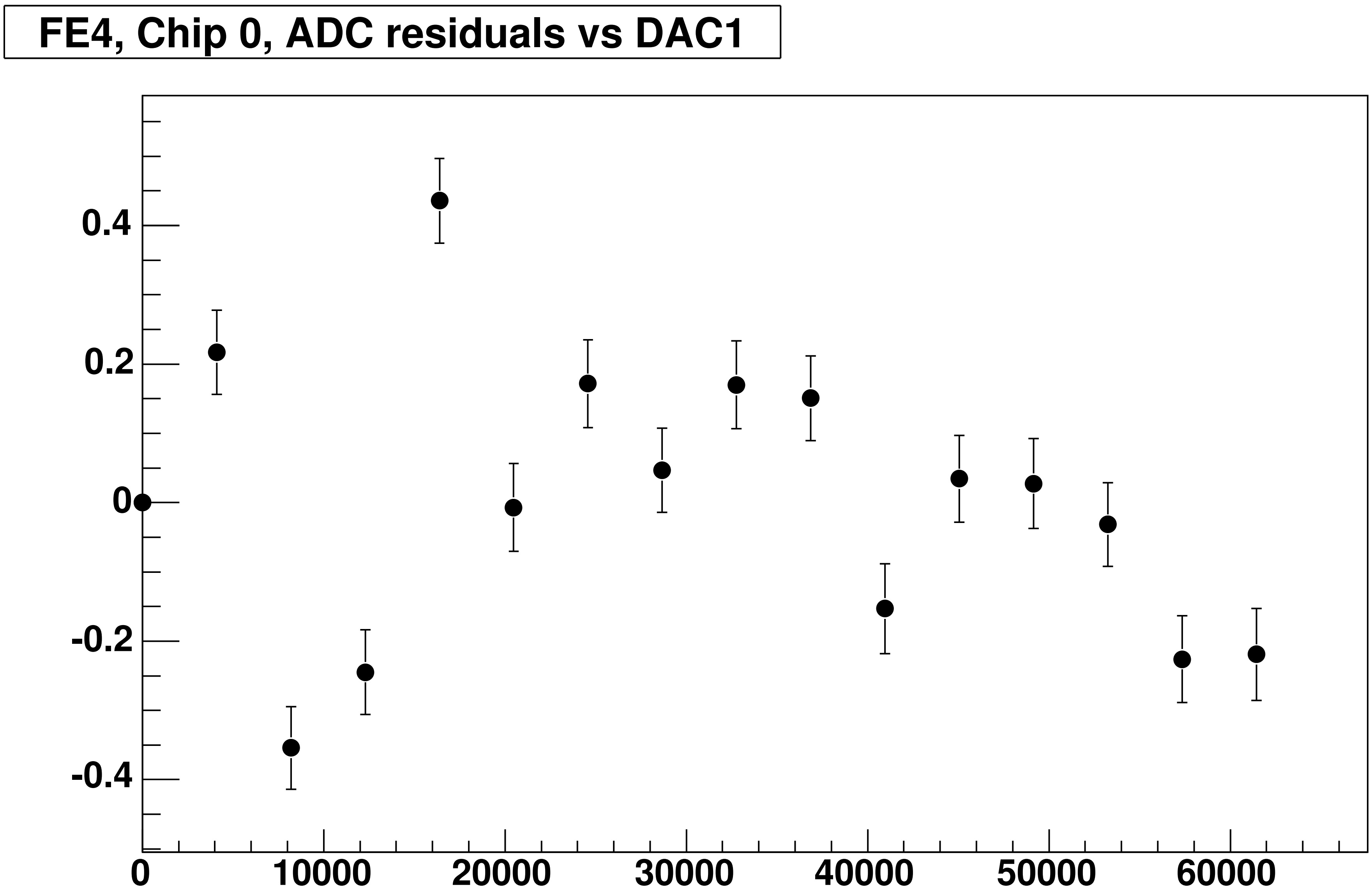


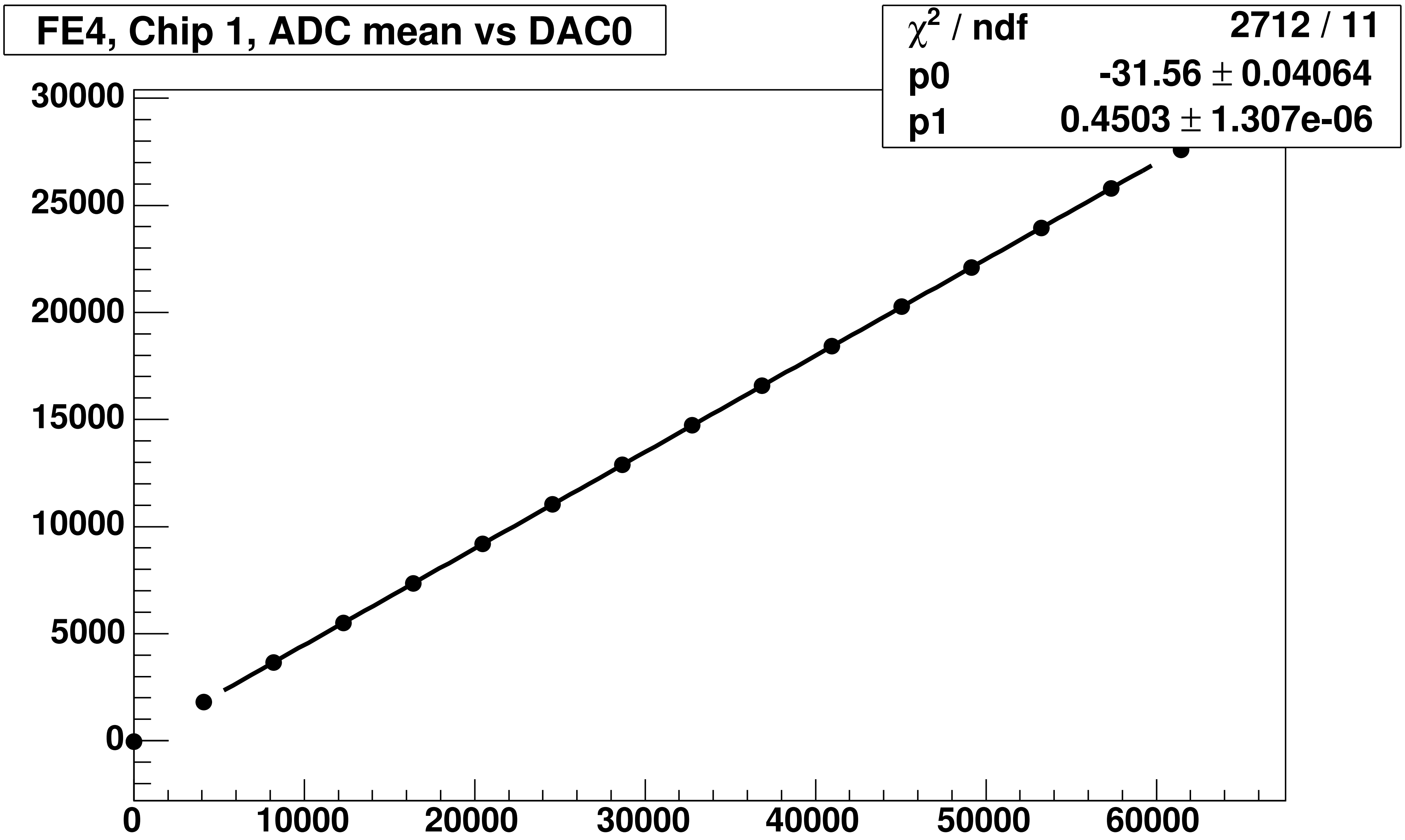
FE4, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



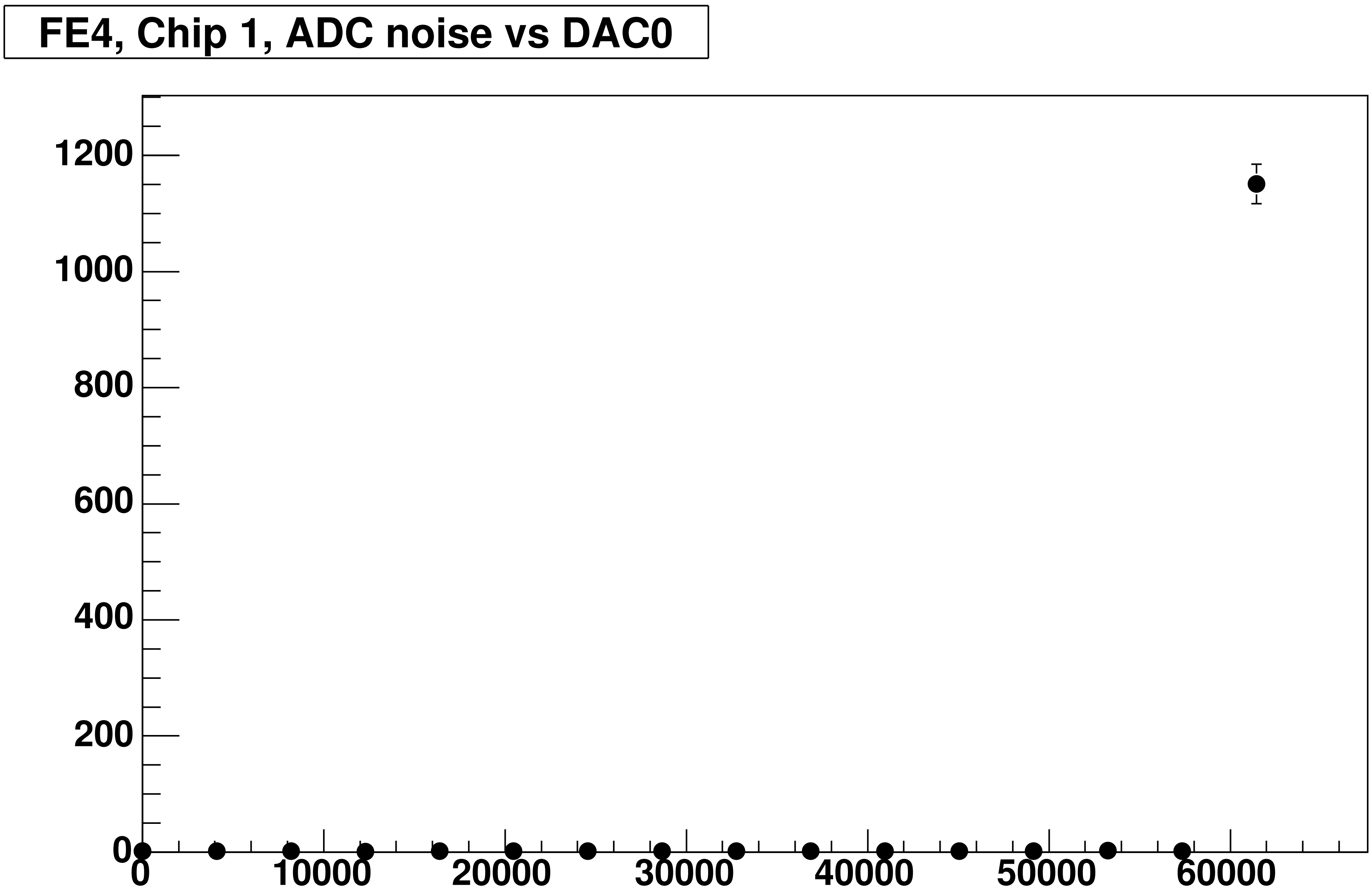
FE4, Chip 0, ADC mean vs DAC1
χ^2 / ndf 143 / 11
p0 -29.42 ± 0.04005
p1 2.976e-06 ± 1.115e-06
-28.8
-29
-29.2
-29.4
-29.6
-29.8
0
10000
20000
30000
40000
50000
60000

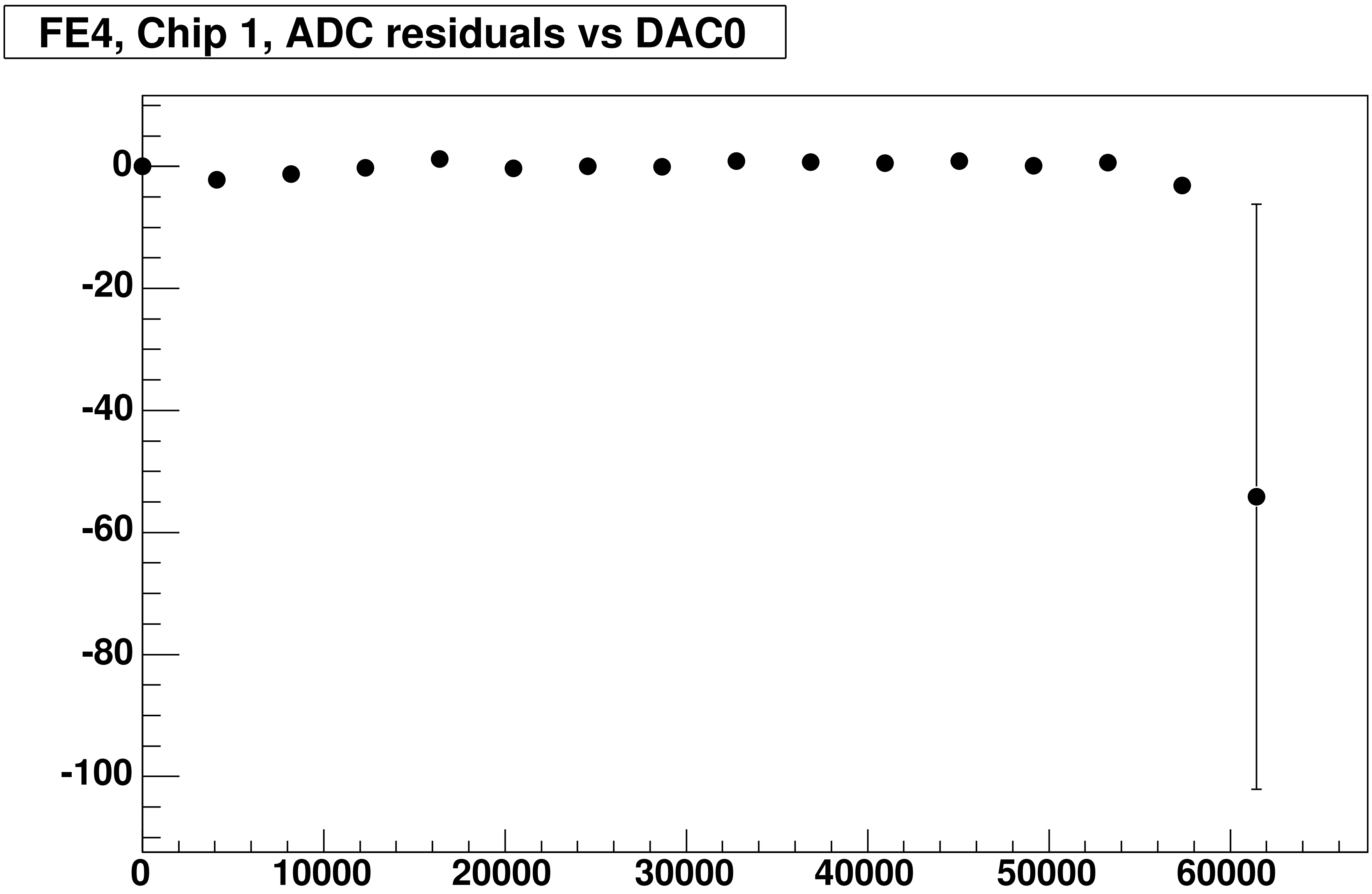

FE4, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

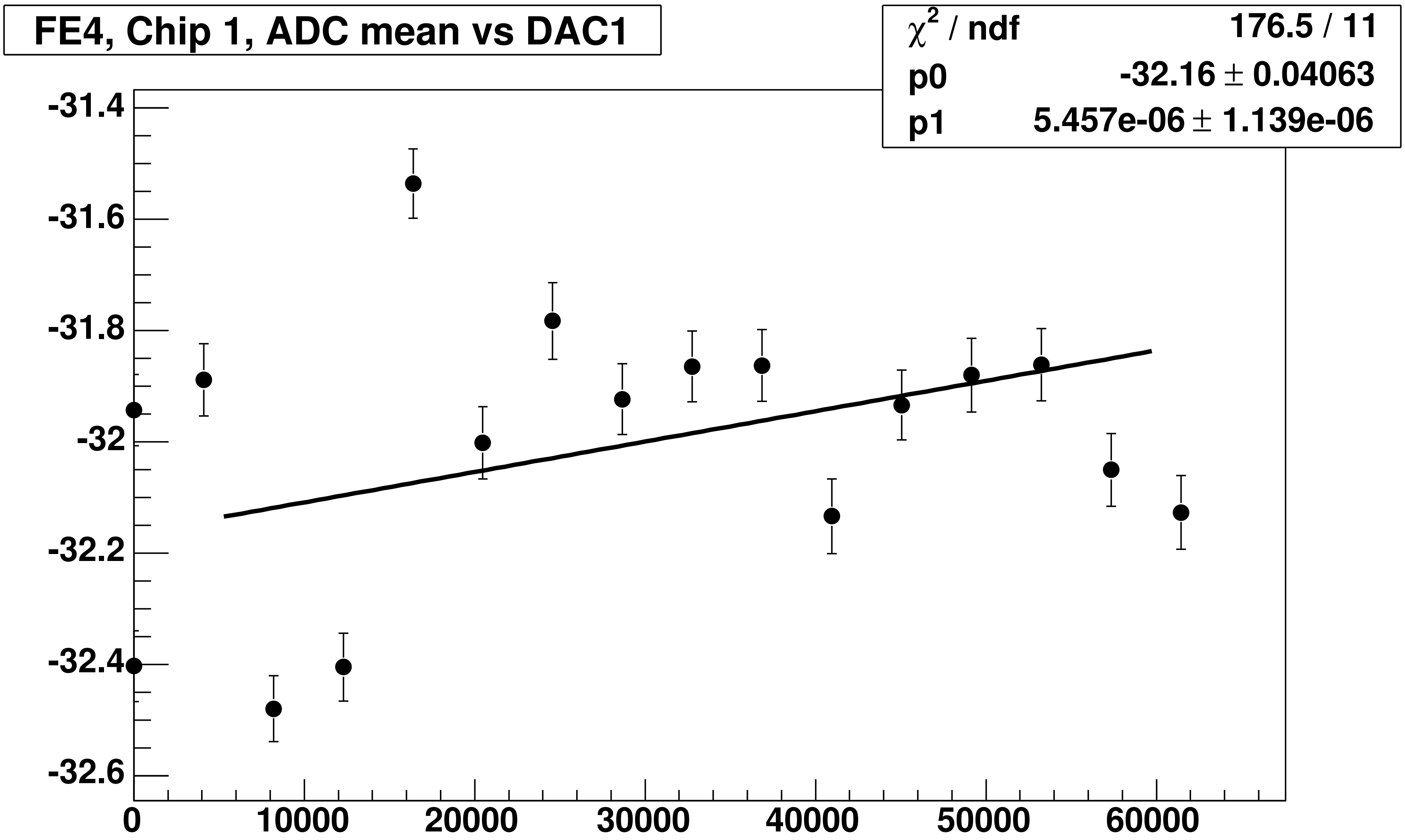

FE4, Chip 0, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000



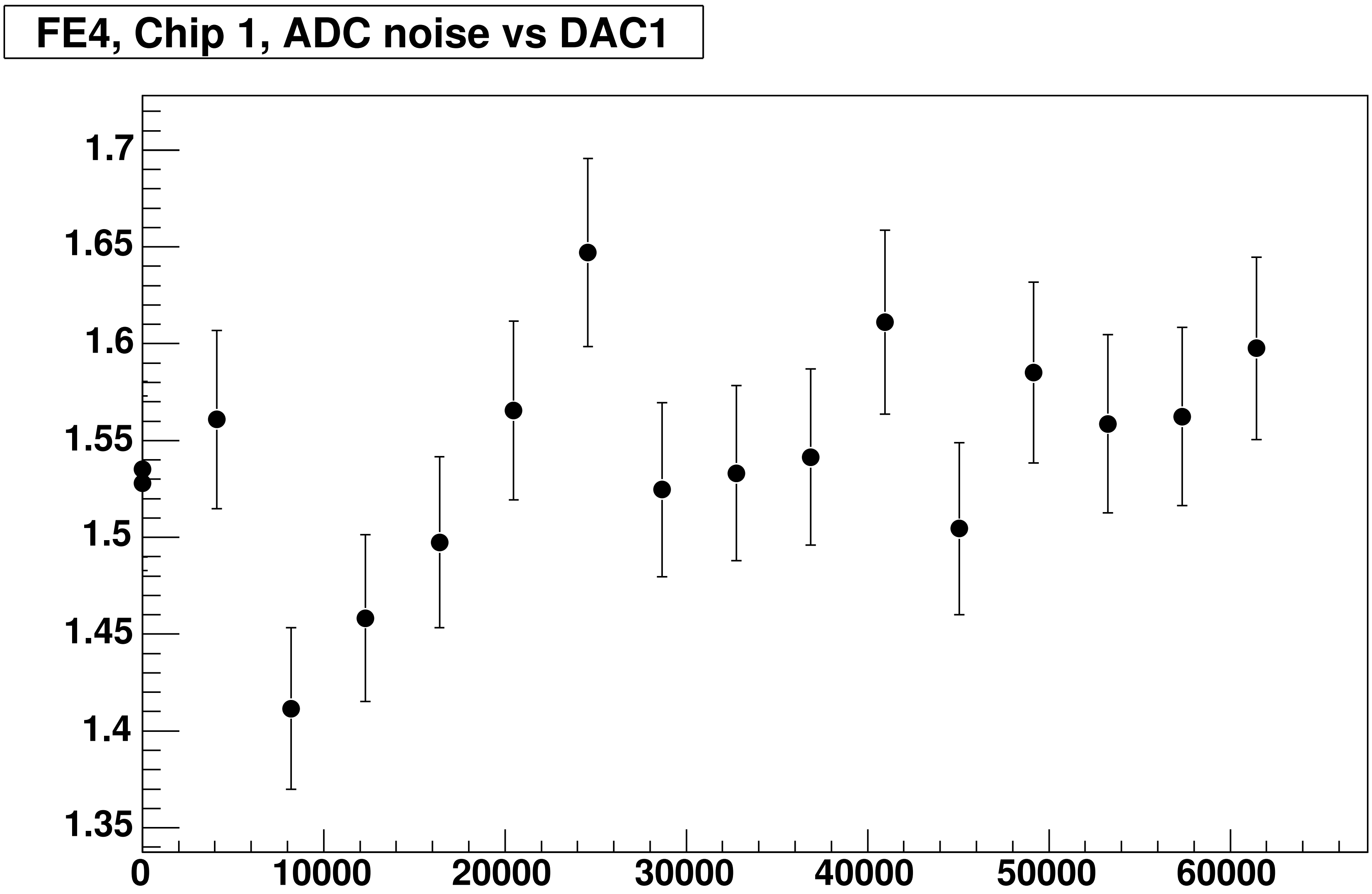
FE4, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2712 / 11
p0 -31.56 ± 0.04064
p1 0.4503 ± 1.307e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

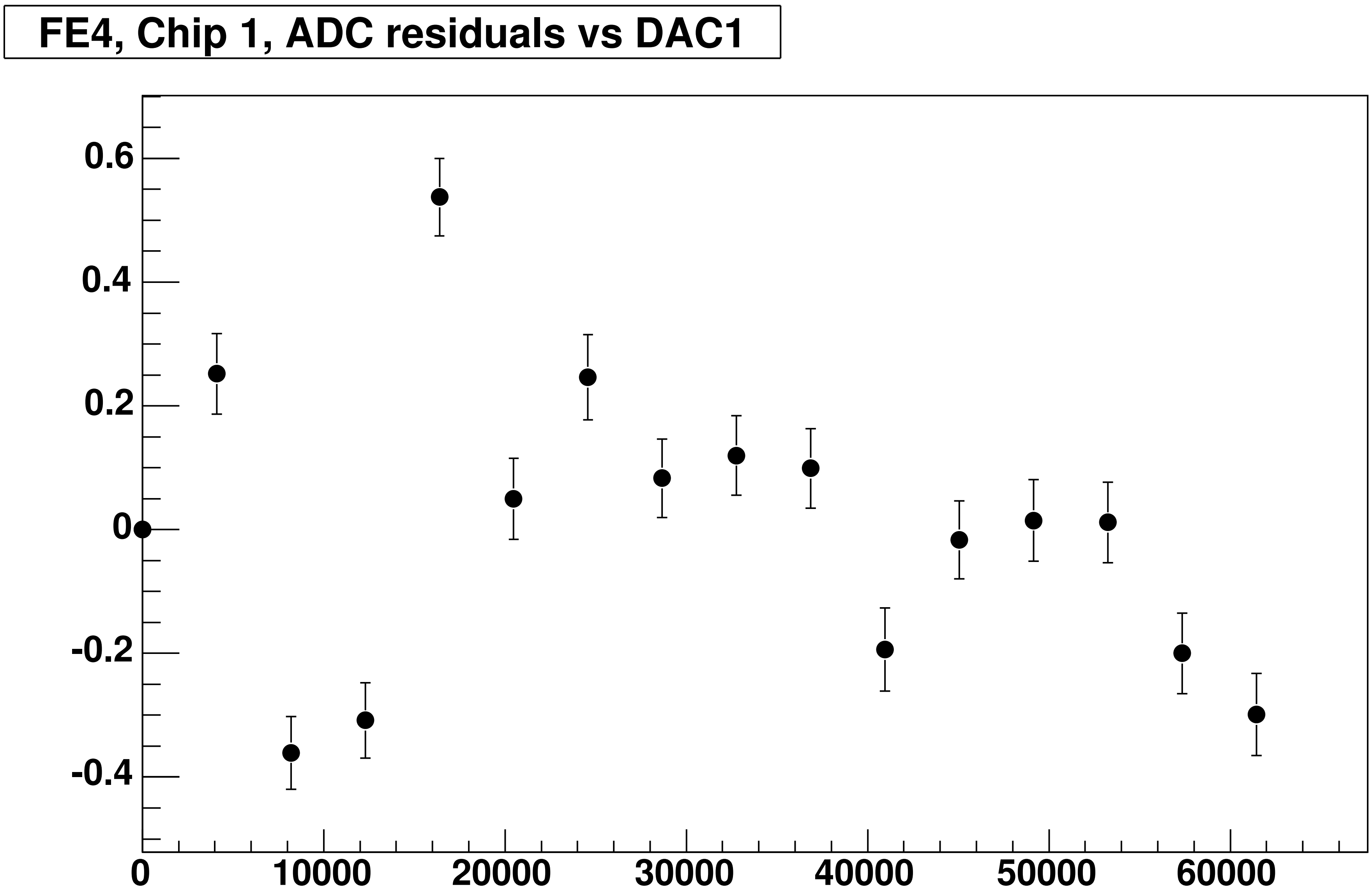

FE4, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

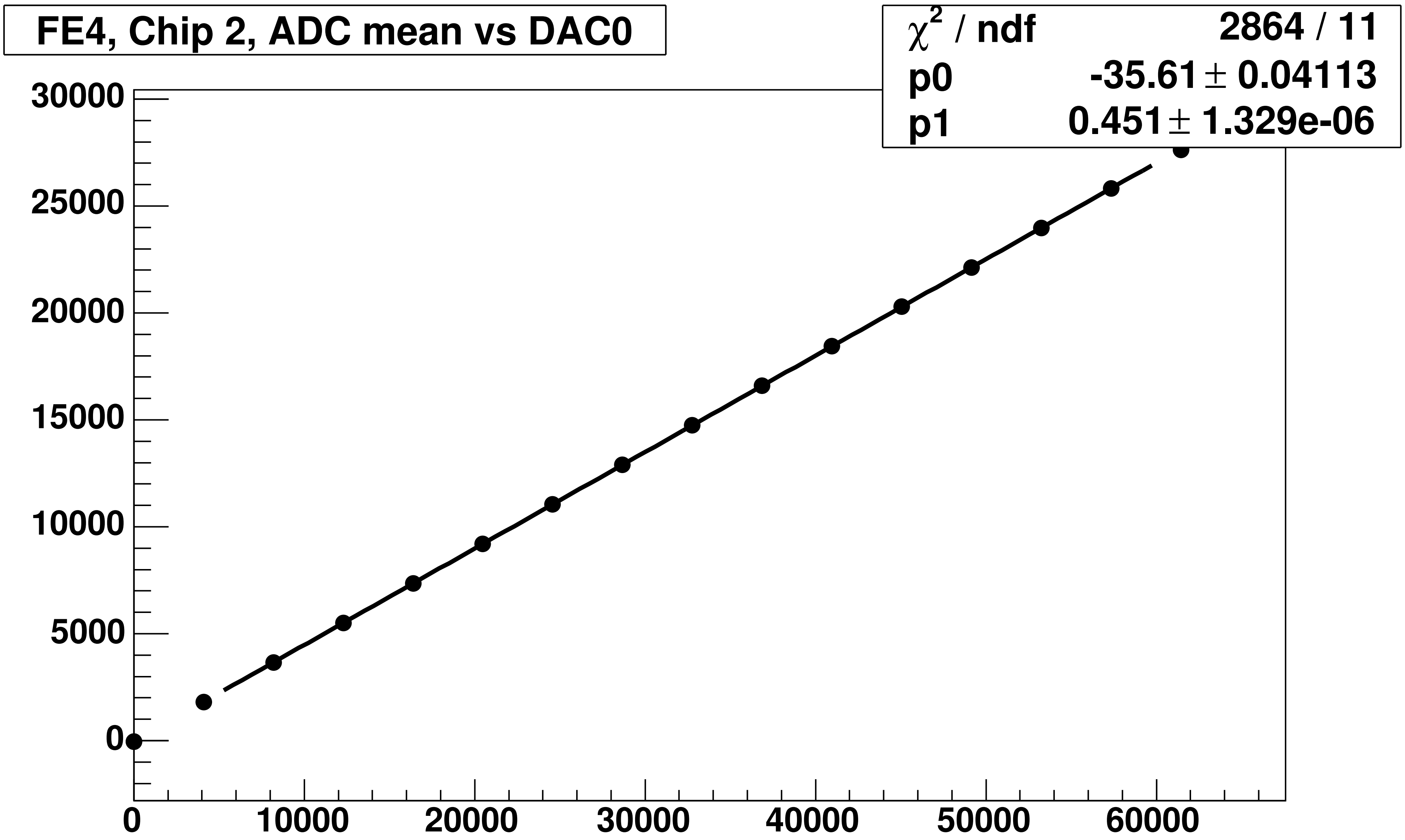


FE4, Chip 1, ADC mean vs DAC1
χ^2 / ndf 176.5 / 11
p0 -32.16 ± 0.04063
p1 5.457e-06 ± 1.139e-06
-31.4
-31.6
-31.8
-32
-32.2
-32.4
-32.6
0
10000
20000
30000
40000
50000
60000

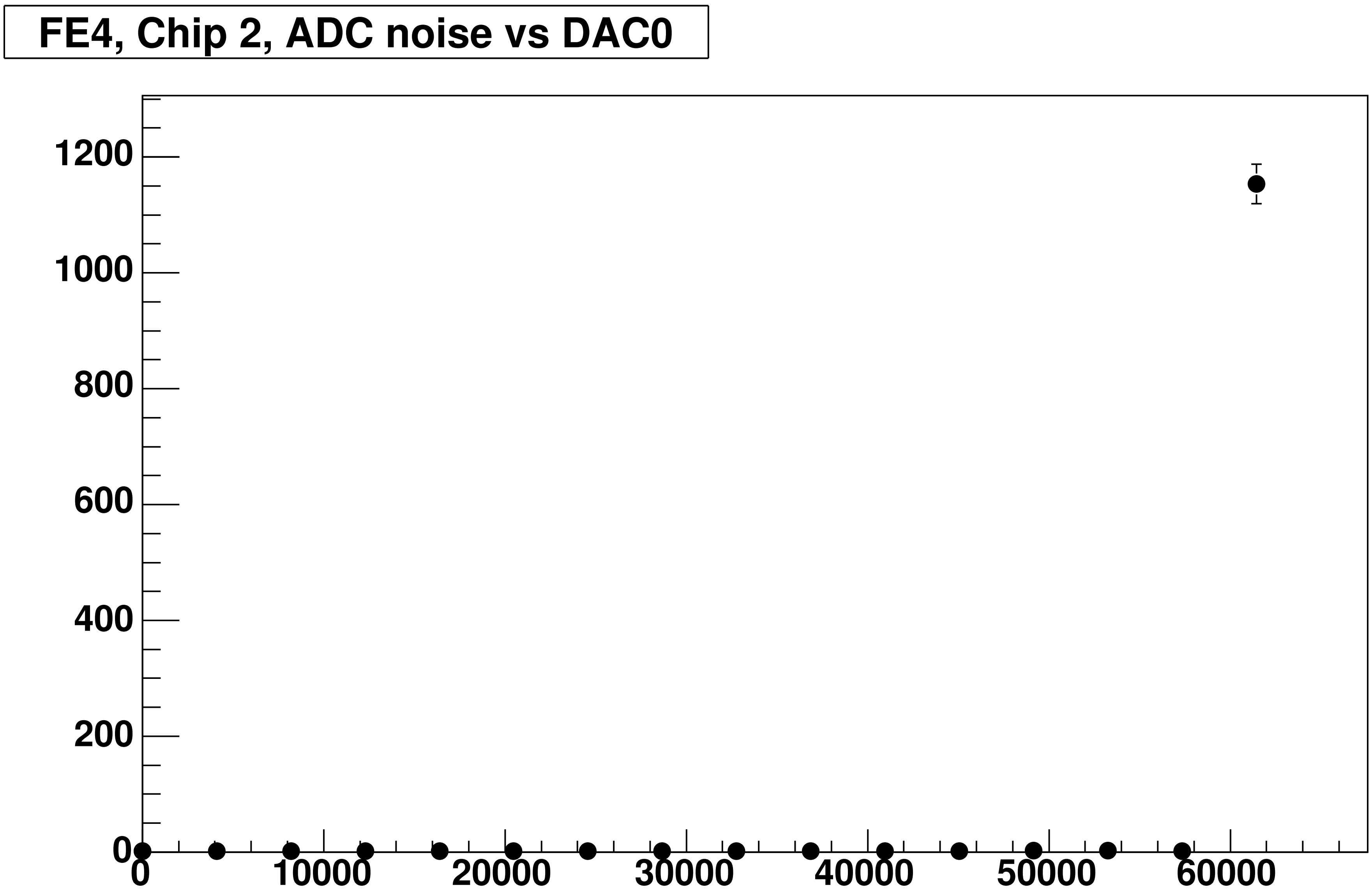


FE4, Chip 1, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

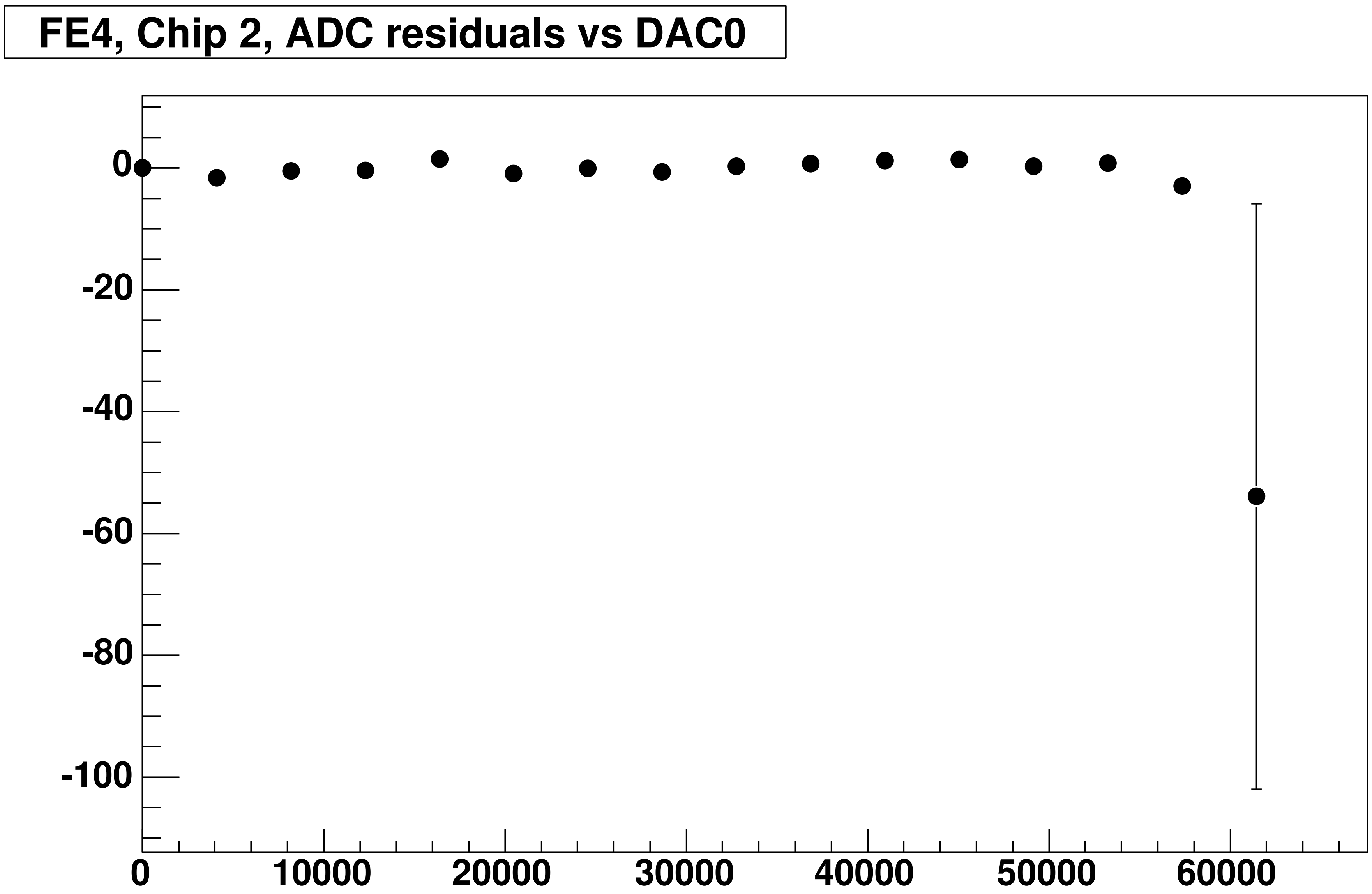

FE4, Chip 1, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

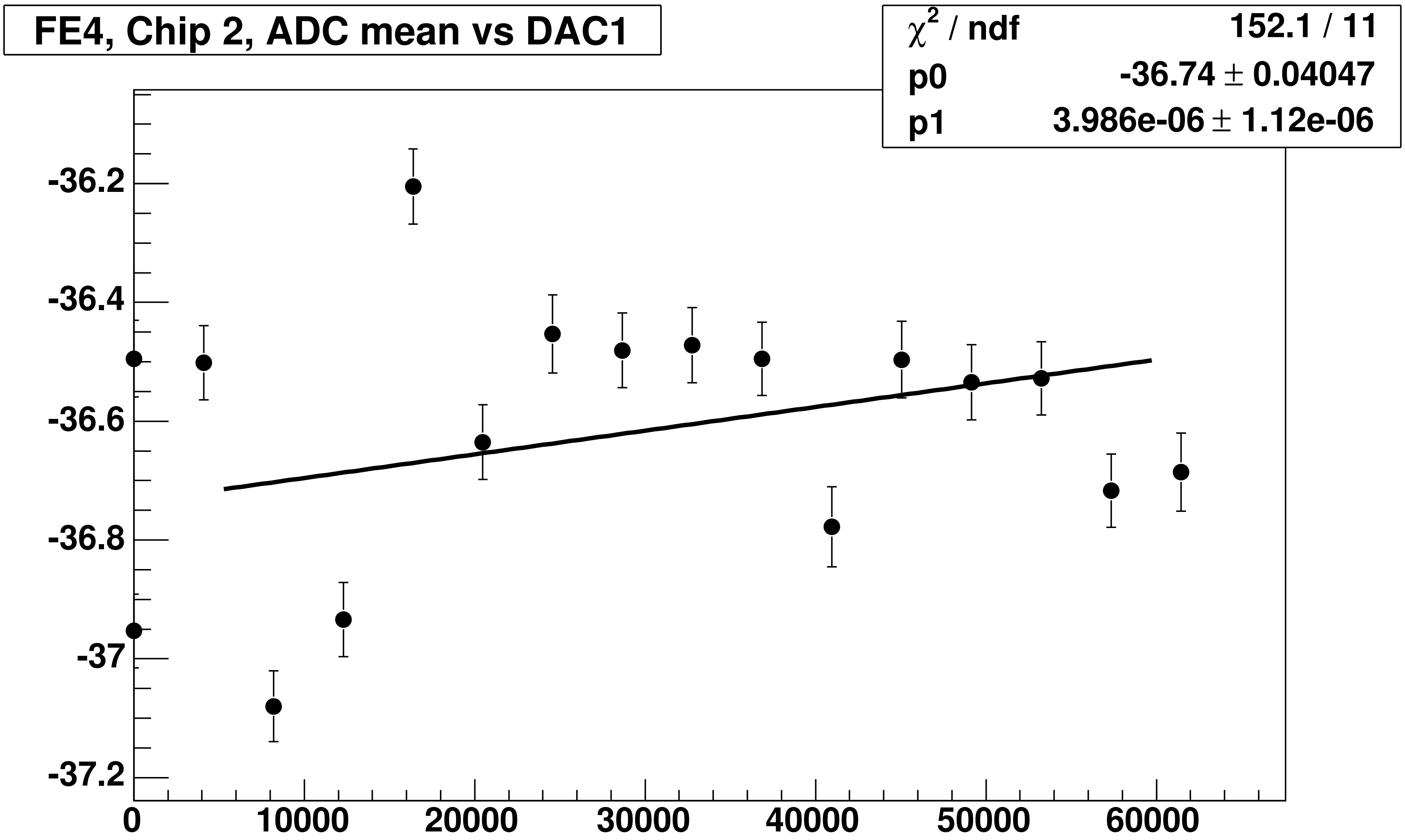


FE4, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2864 / 11
p0 -35.61 ± 0.04113
p1 0.451 ± 1.329e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

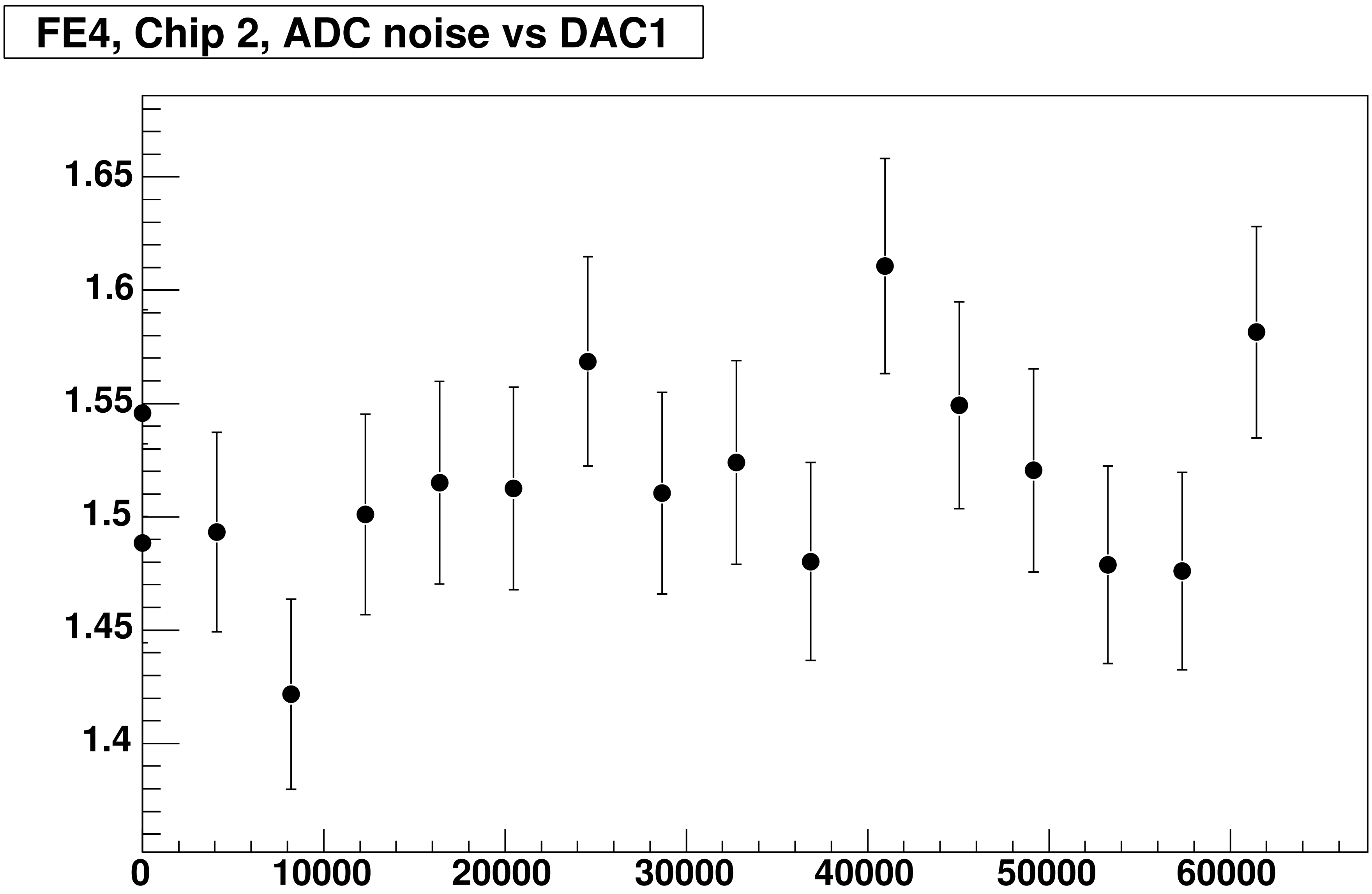


FE4, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

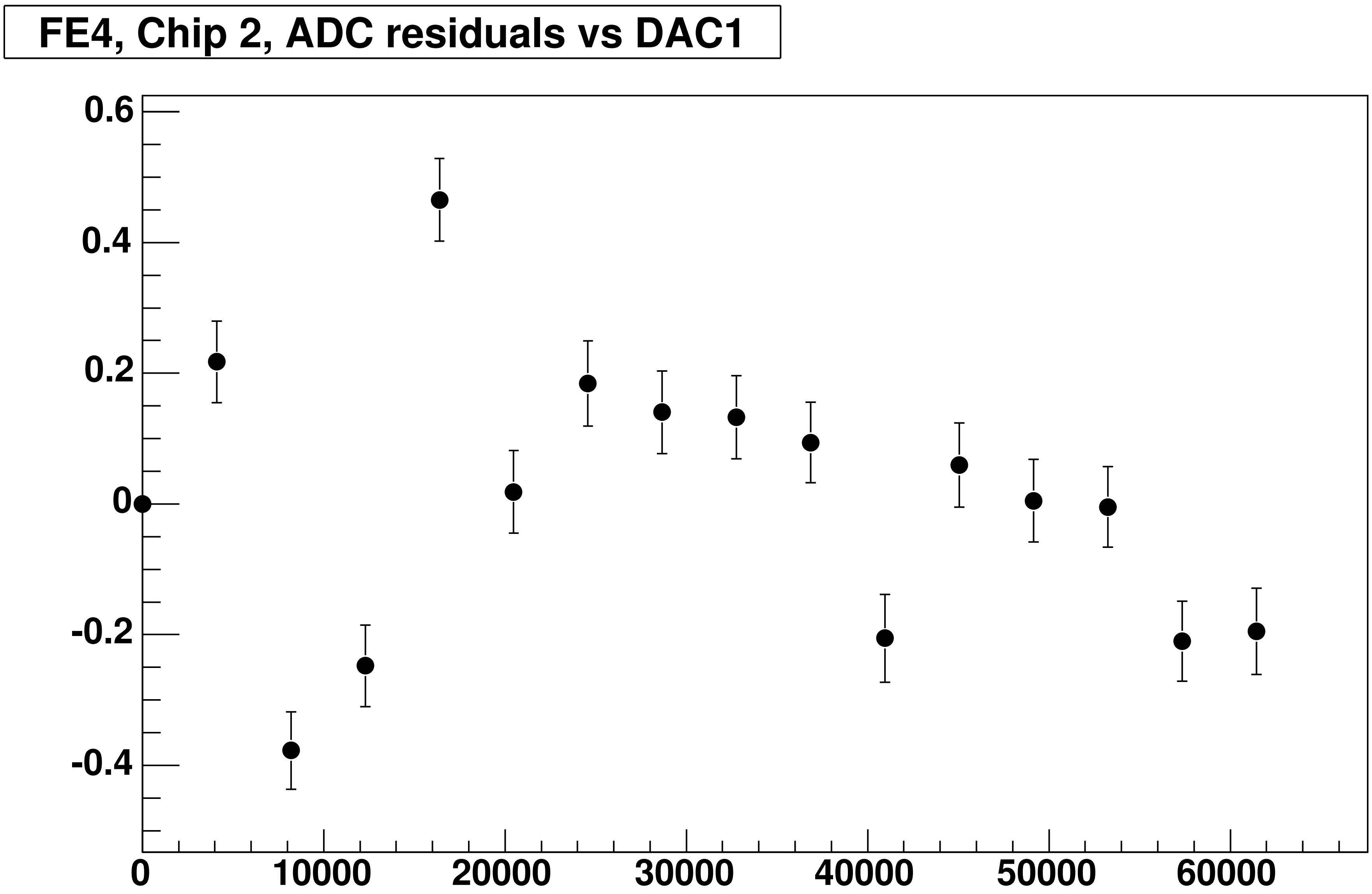

FE4, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

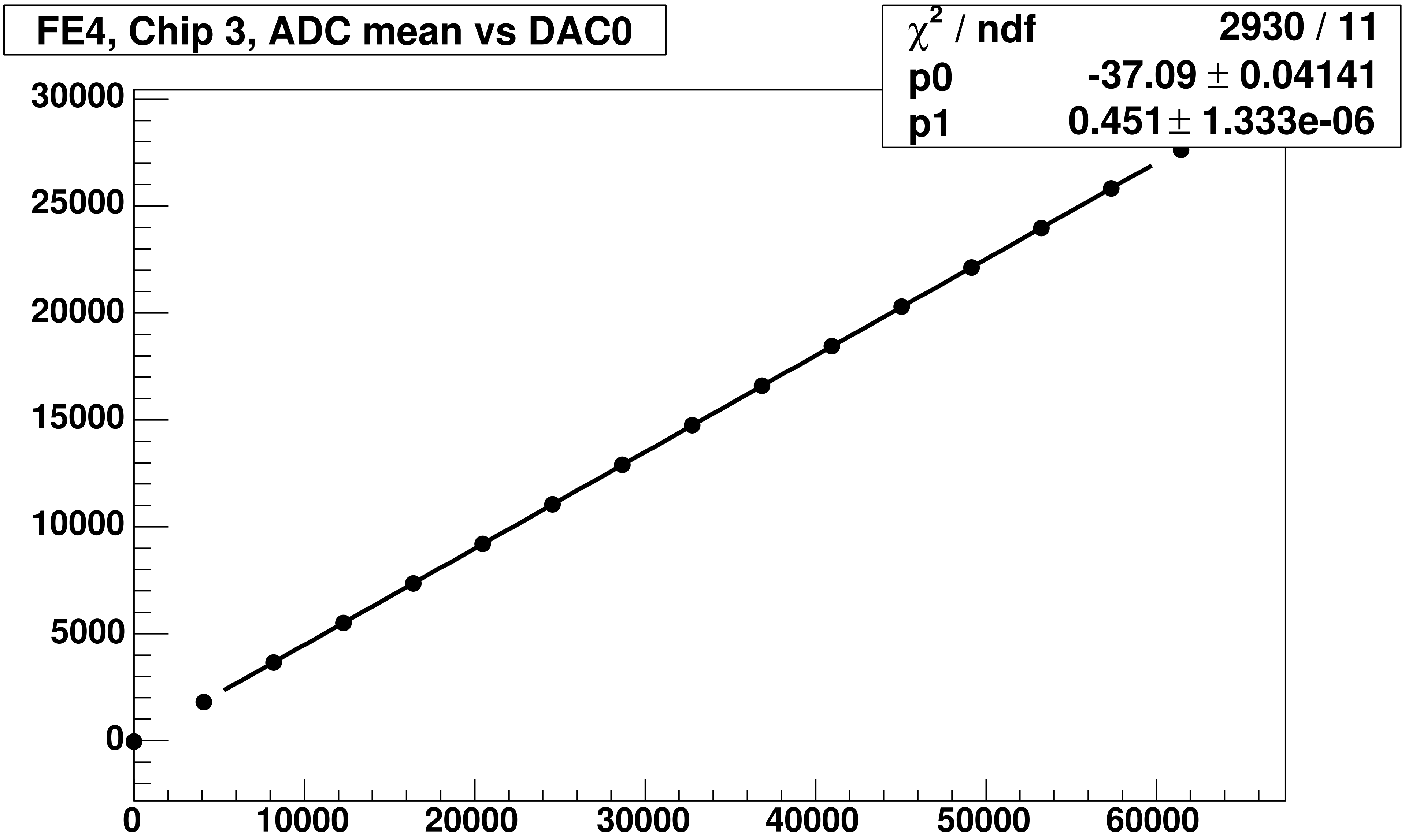


FE4, Chip 2, ADC mean vs DAC1
χ^2 / ndf 152.1 / 11
p0 -36.74 ± 0.04047
p1 3.986e-06 ± 1.12e-06
-36.2
-36.4
-36.6
-36.8
-37
-37.2
0
10000
20000
30000
40000
50000
60000

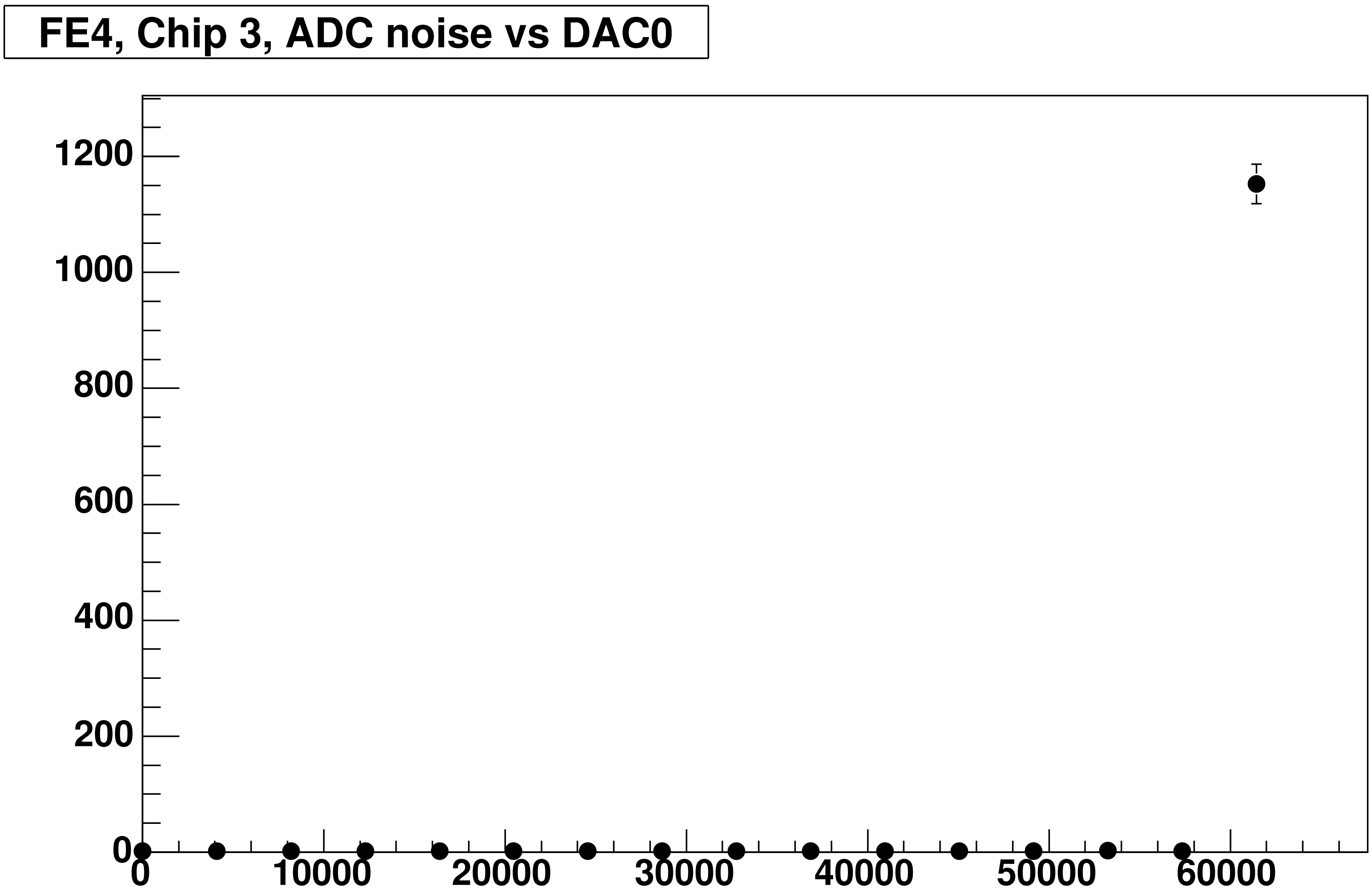


FE4, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

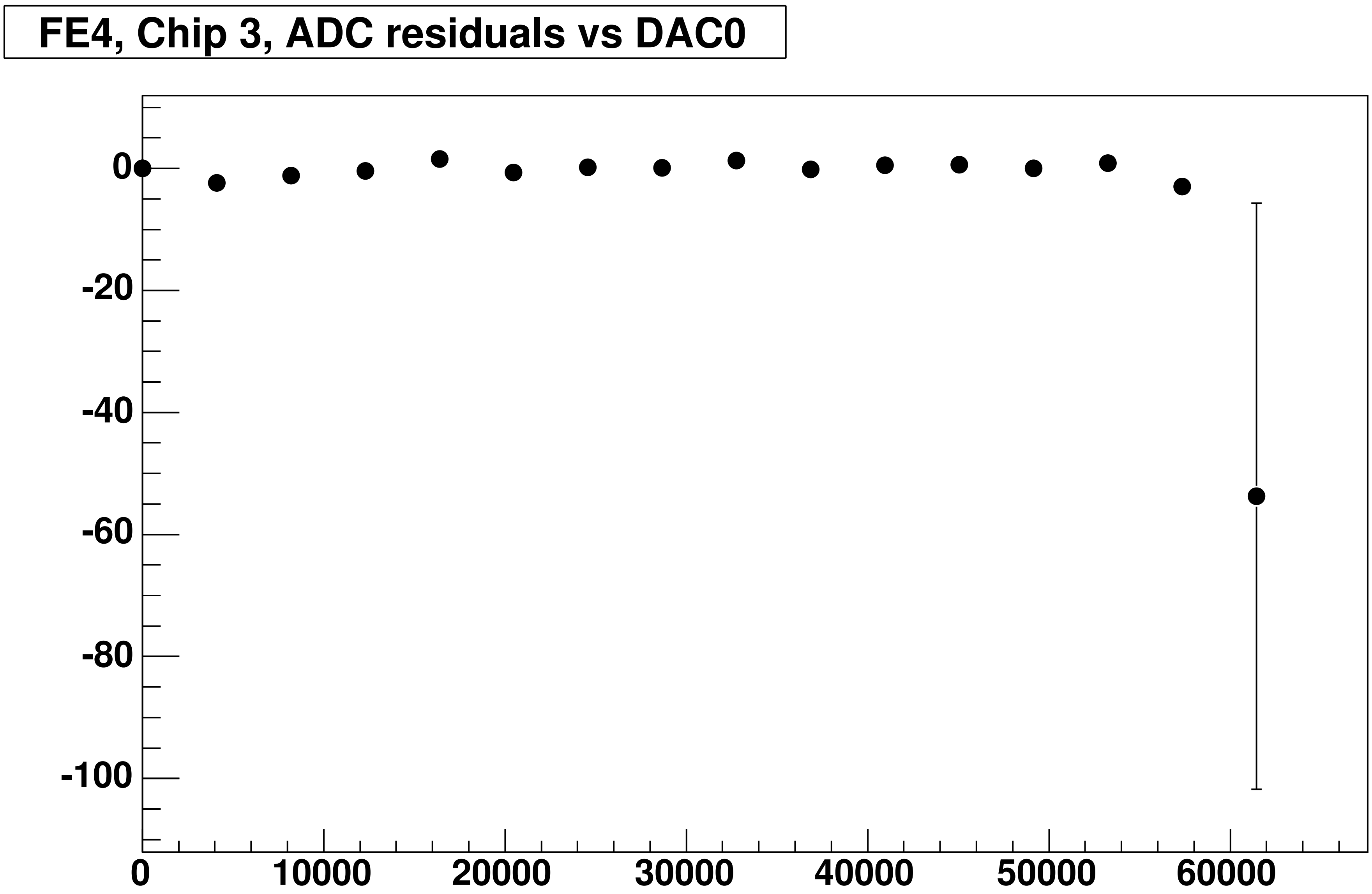

FE4, Chip 2, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

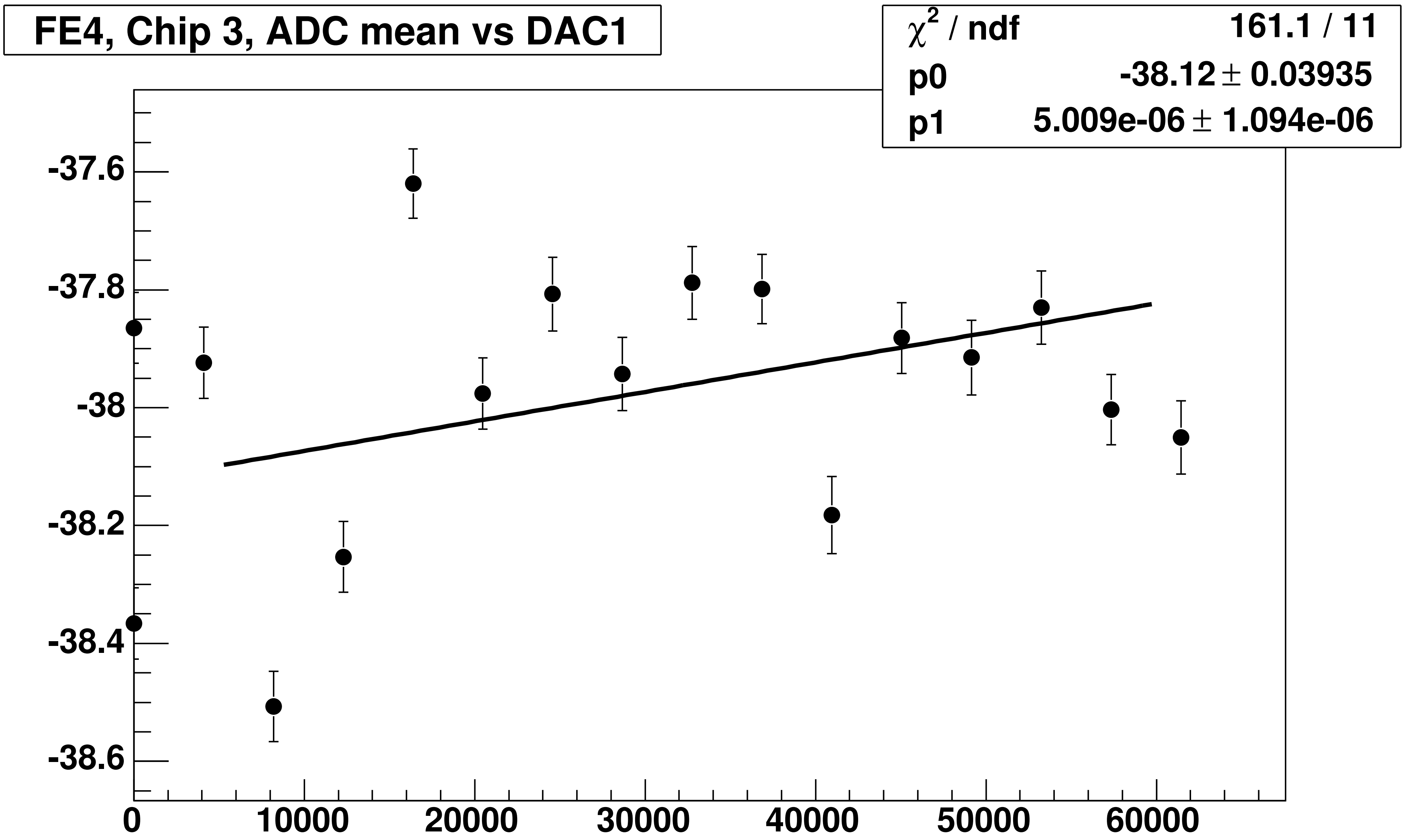


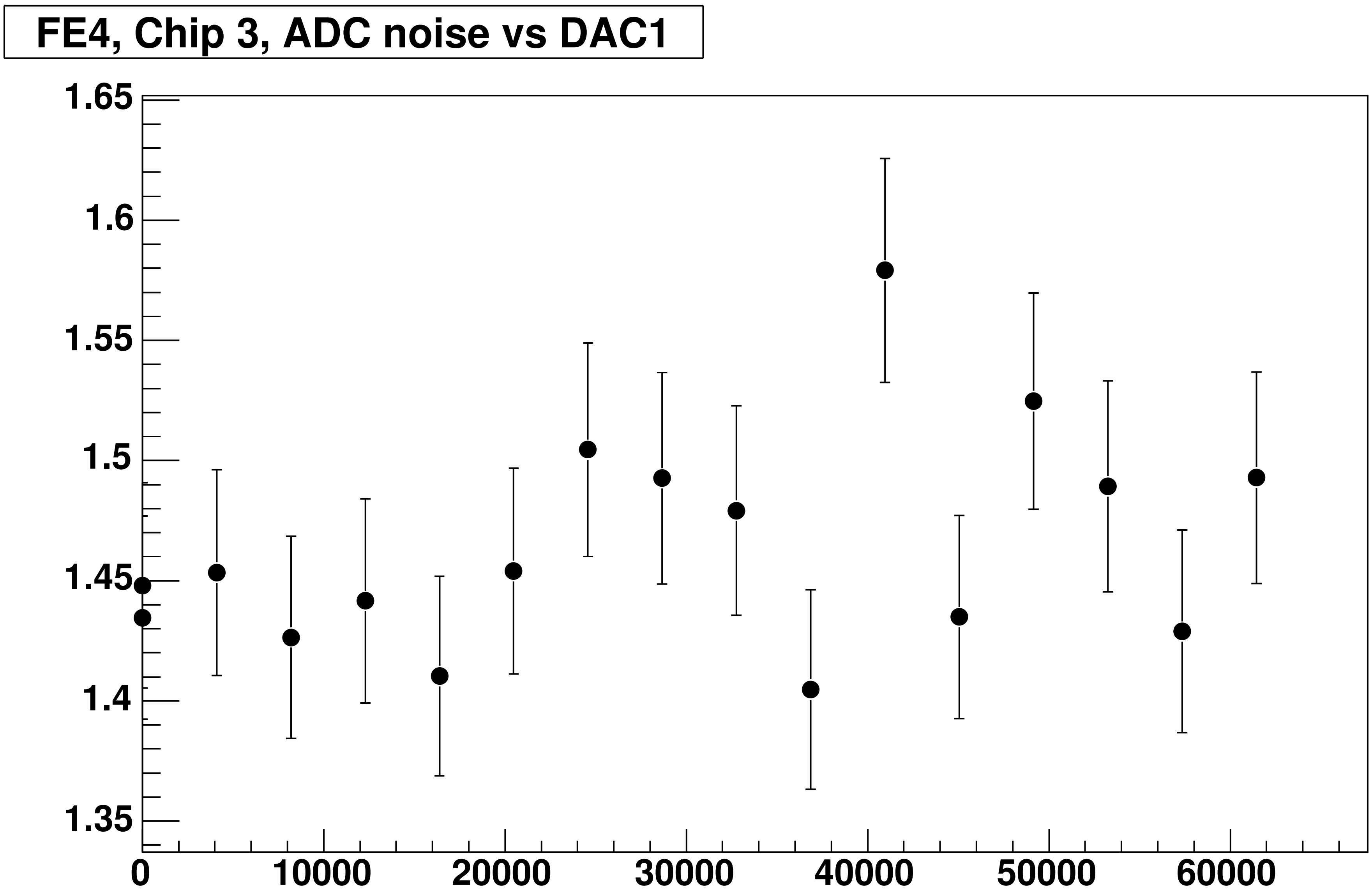
FE4, Chip 3, ADC mean vs DAC0
χ² / ndf 2930 / 11
p0 -37.09 ± 0.04141
p1 0.451 ± 1.333e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

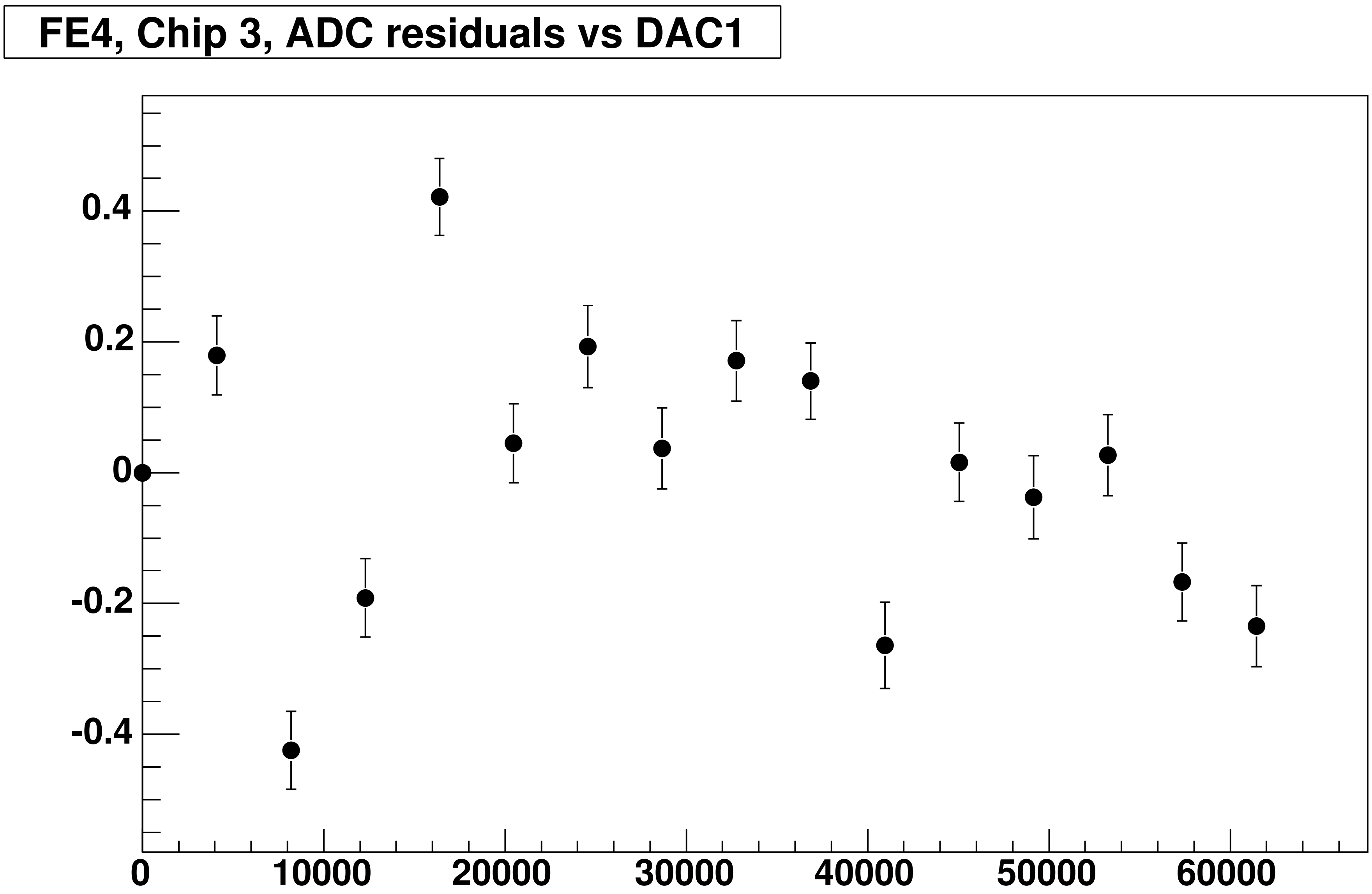


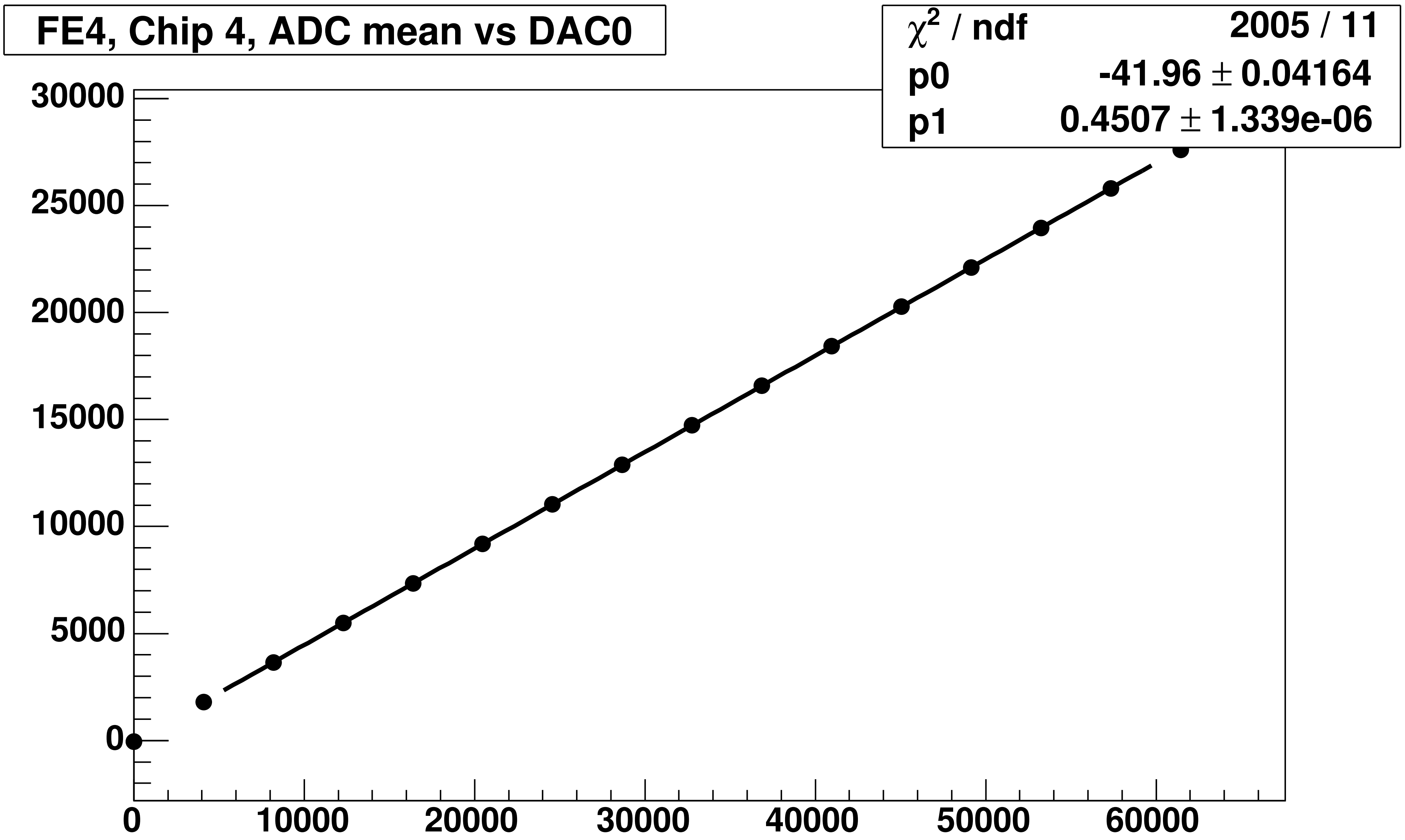
FE4, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

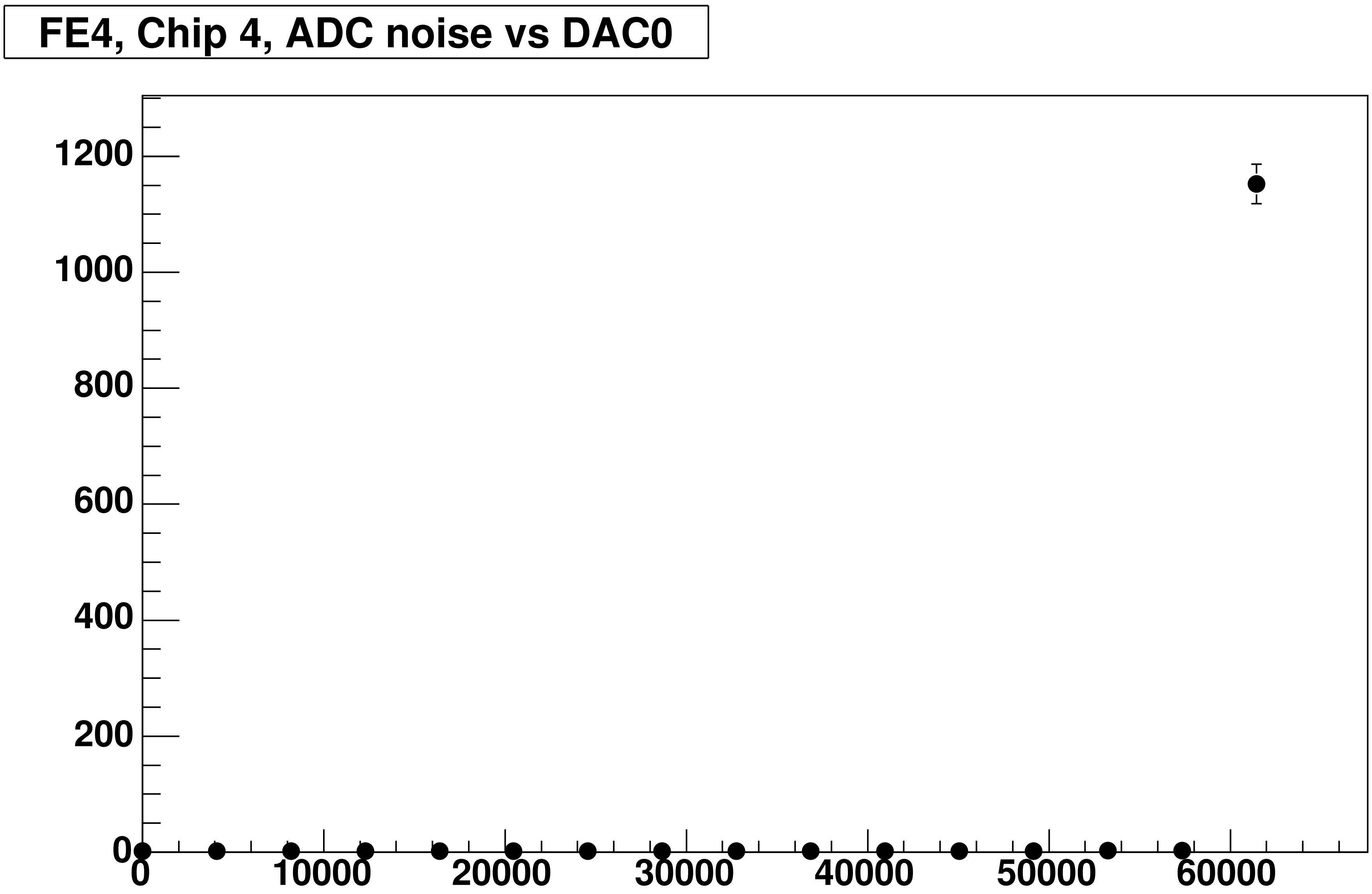

FE4, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

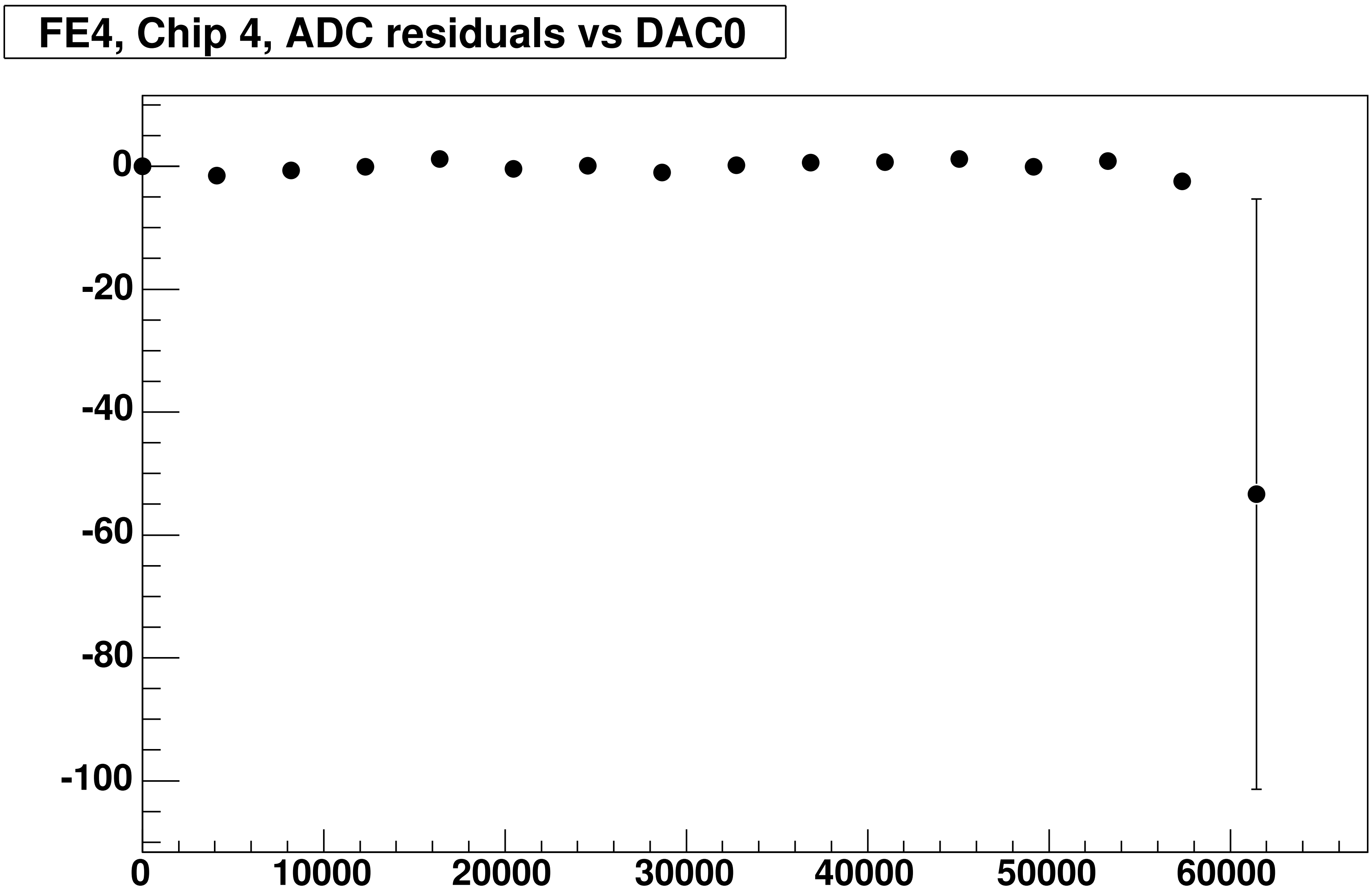

FE4, Chip 3, ADC mean vs DAC1
χ^2 / ndf 161.1 / 11
p0 -38.12 ± 0.03935
p1 5.009e-06 ± 1.094e-06
-37.6
-37.8
-38
-38.2
-38.4
-38.6
0
10000
20000
30000
40000
50000
60000

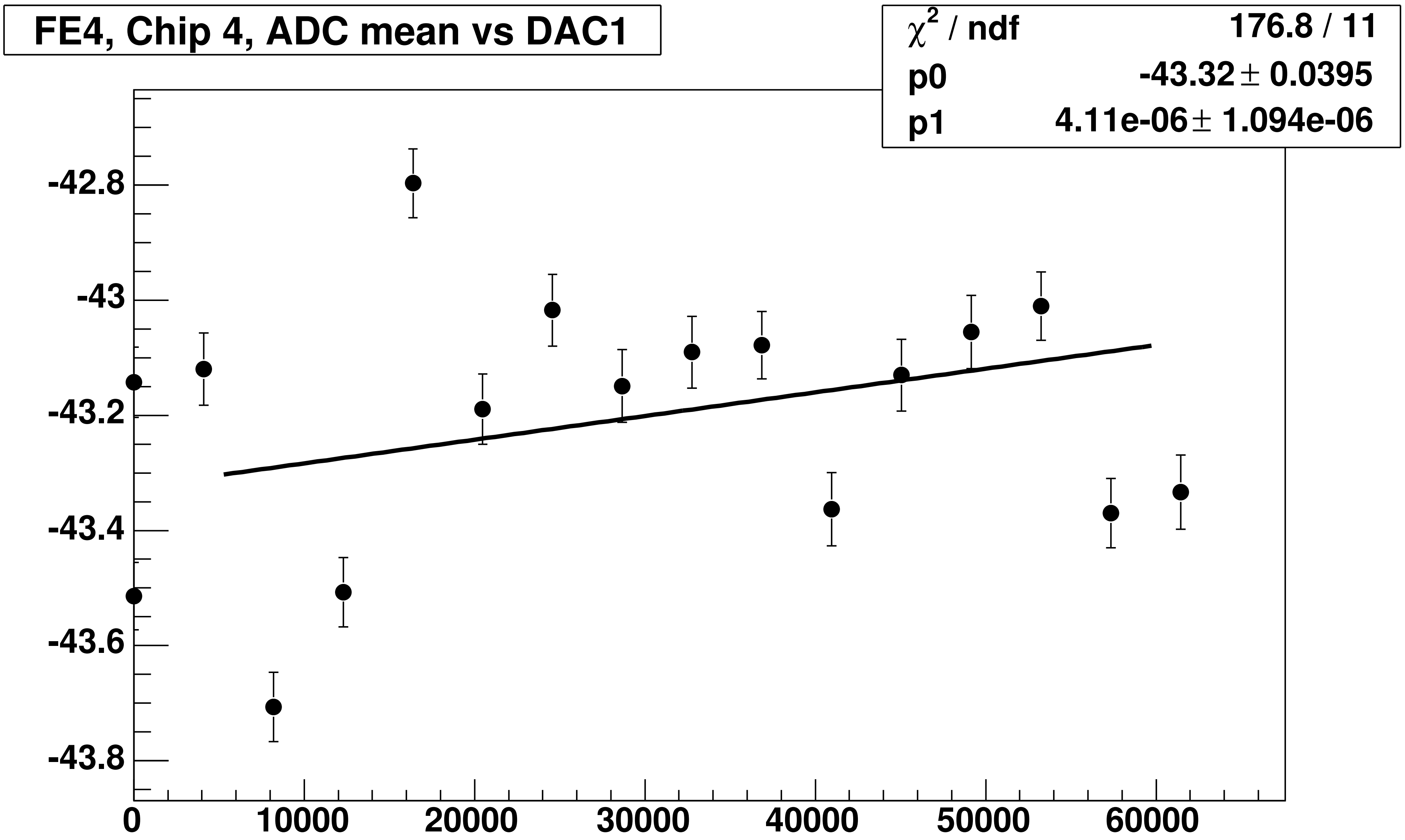

FE4, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

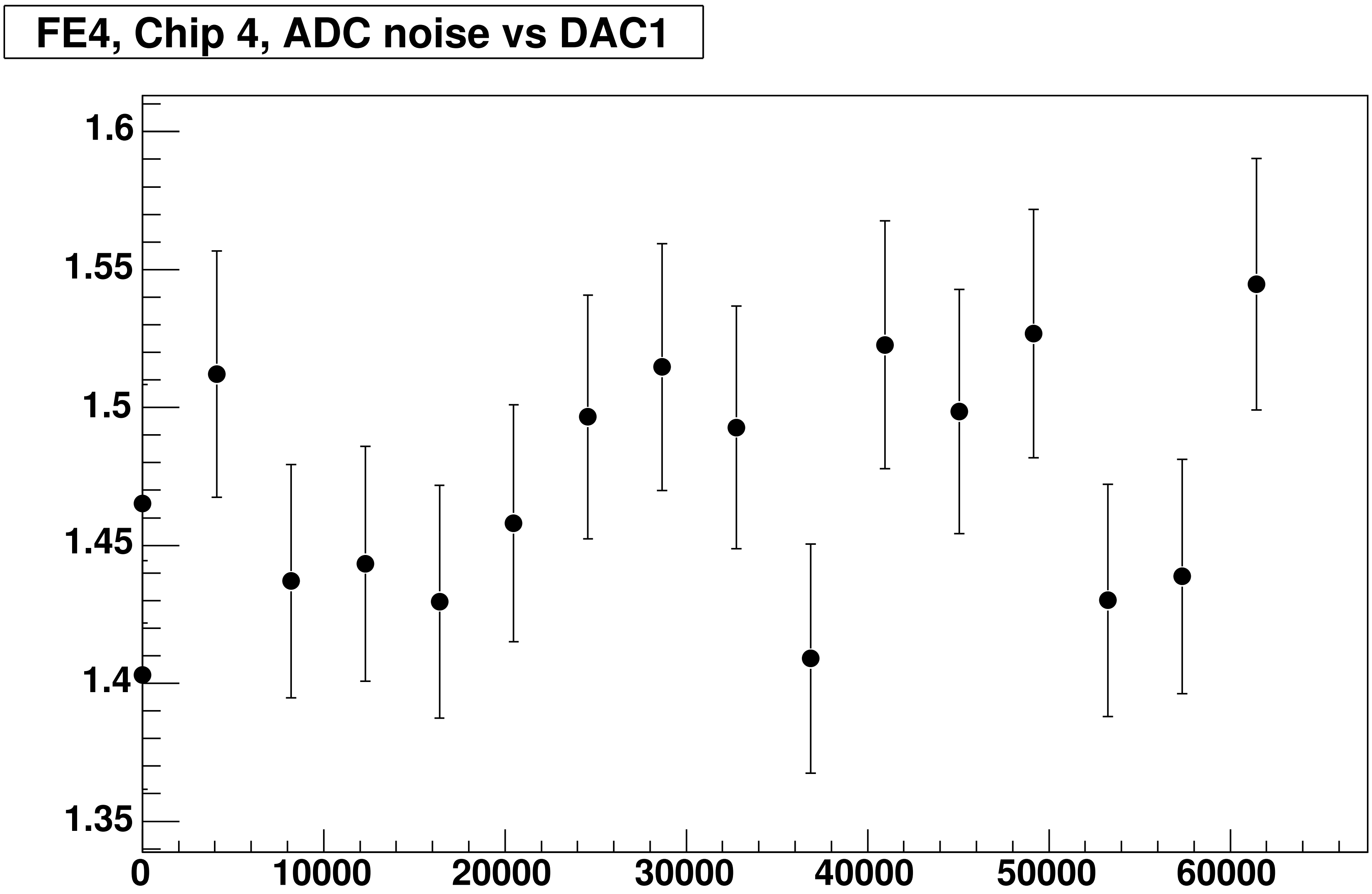

FE4, Chip 3, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

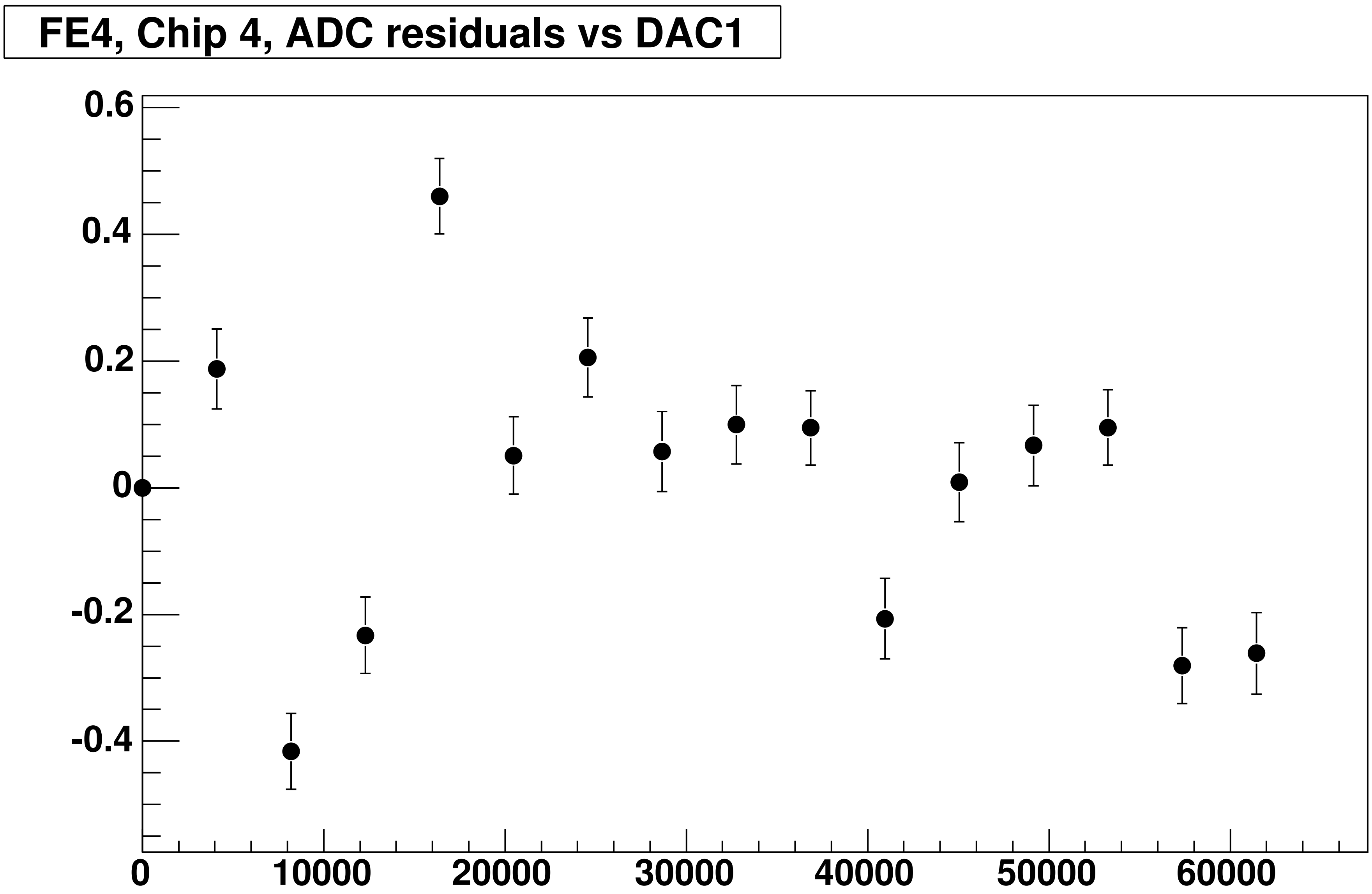

FE4, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2005 / 11
p0 -41.96 ± 0.04164
p1 0.4507 ± 1.339e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

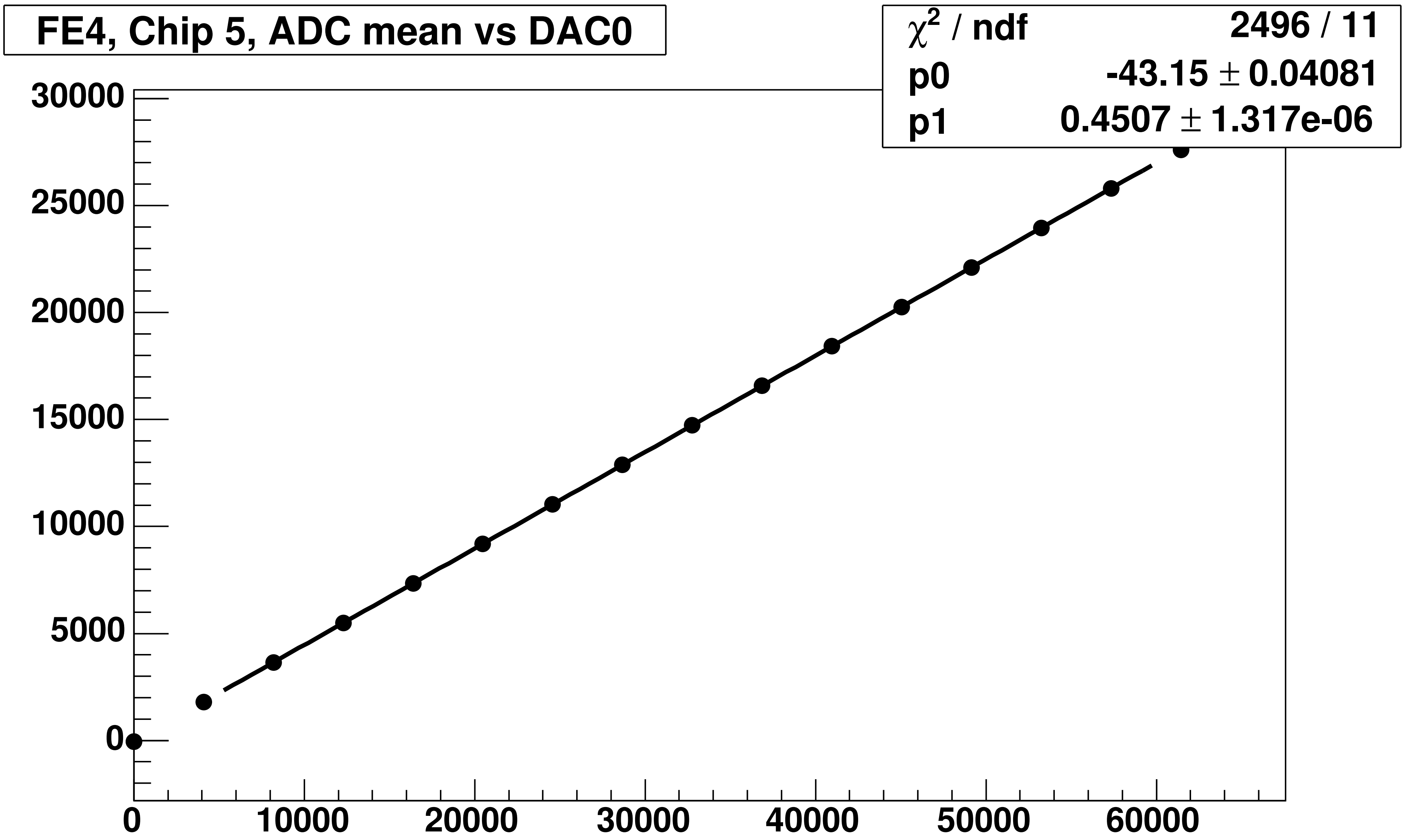

FE4, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

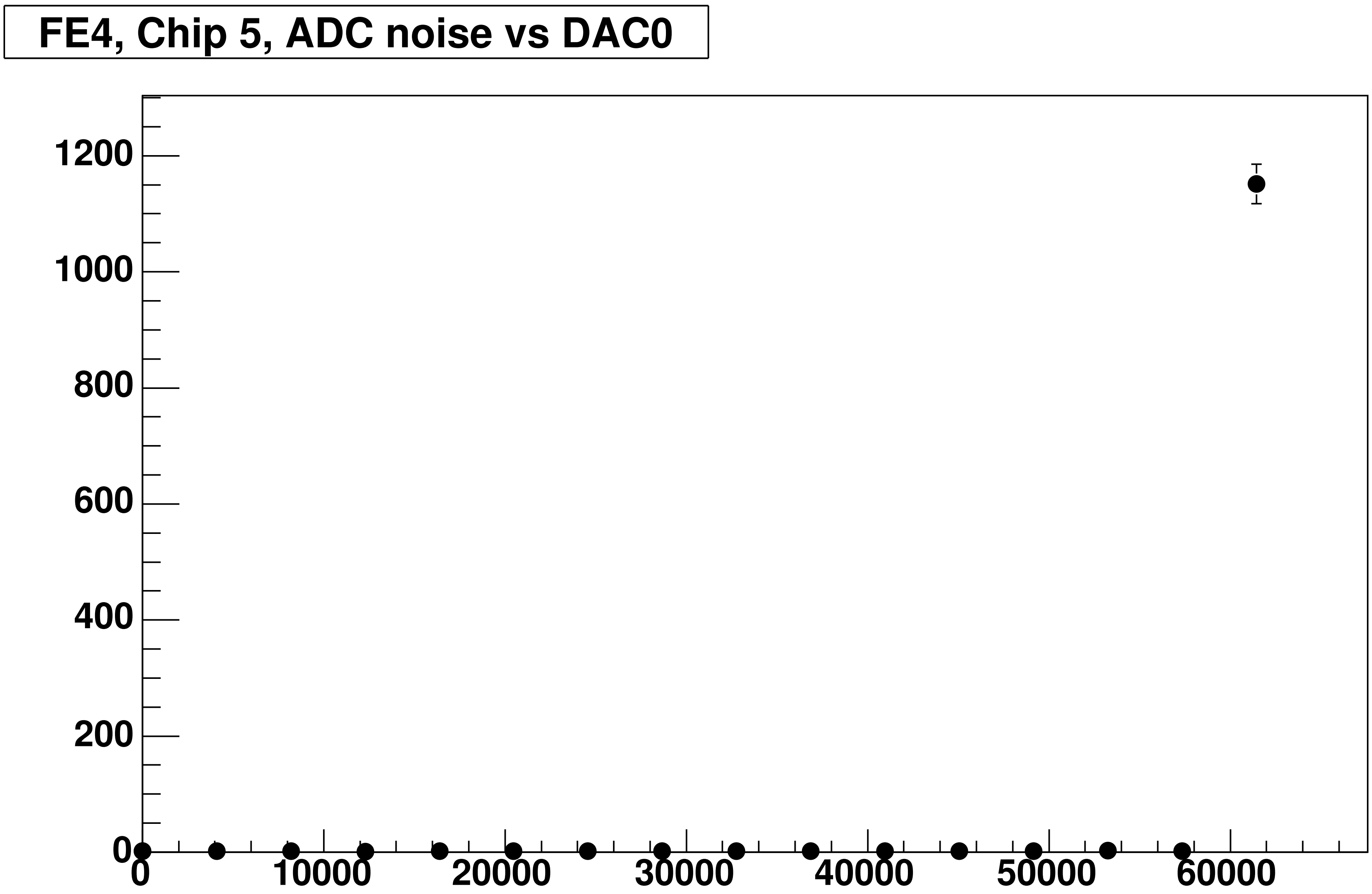

FE4, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

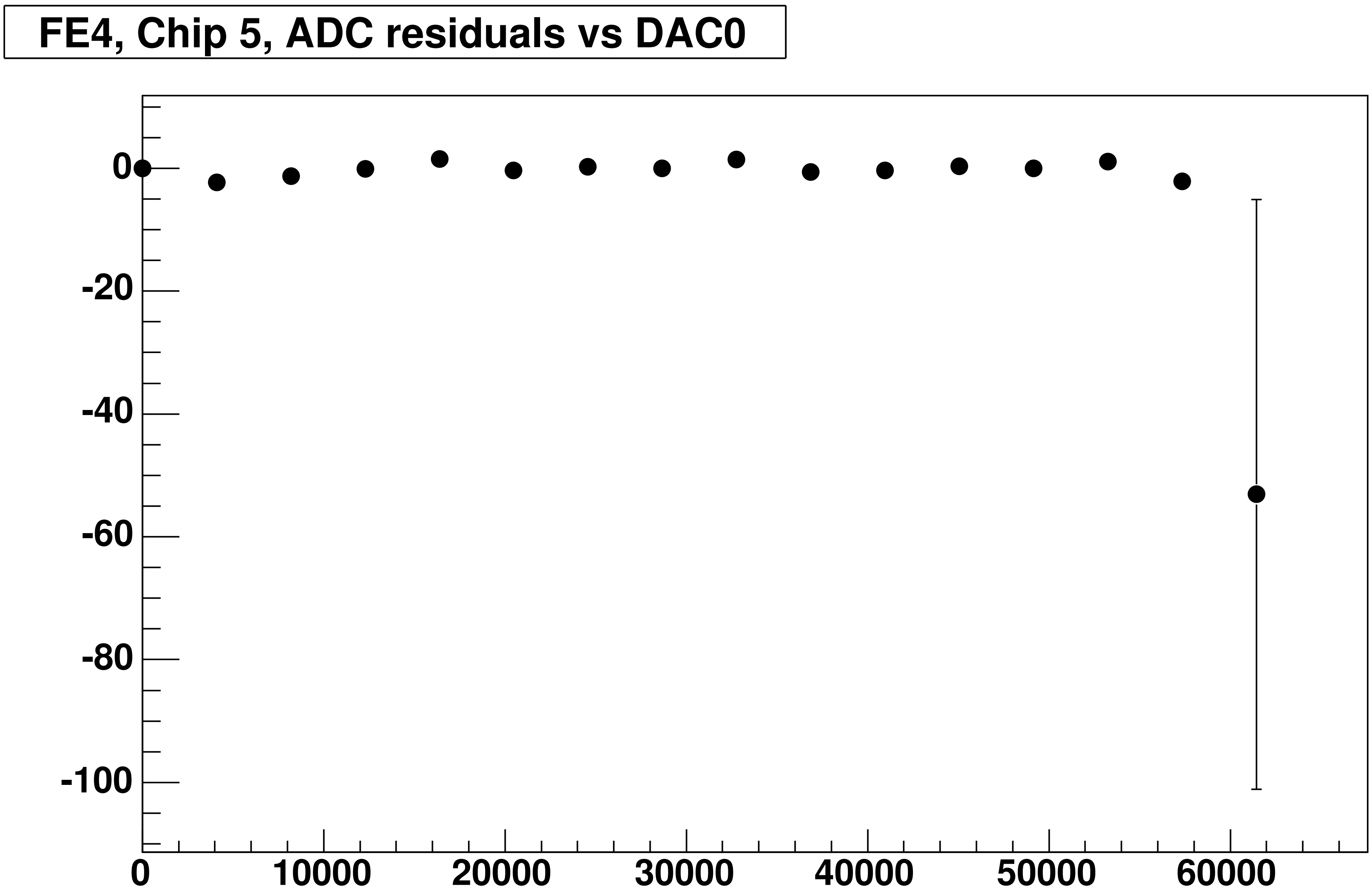

FE4, Chip 4, ADC mean vs DAC1
χ^2 / ndf 176.8 / 11
p0 -43.32 ± 0.0395
p1 4.11e-06 ± 1.094e-06
-42.8
-43
-43.2
-43.4
-43.6
-43.8
0
10000
20000
30000
40000
50000
60000


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

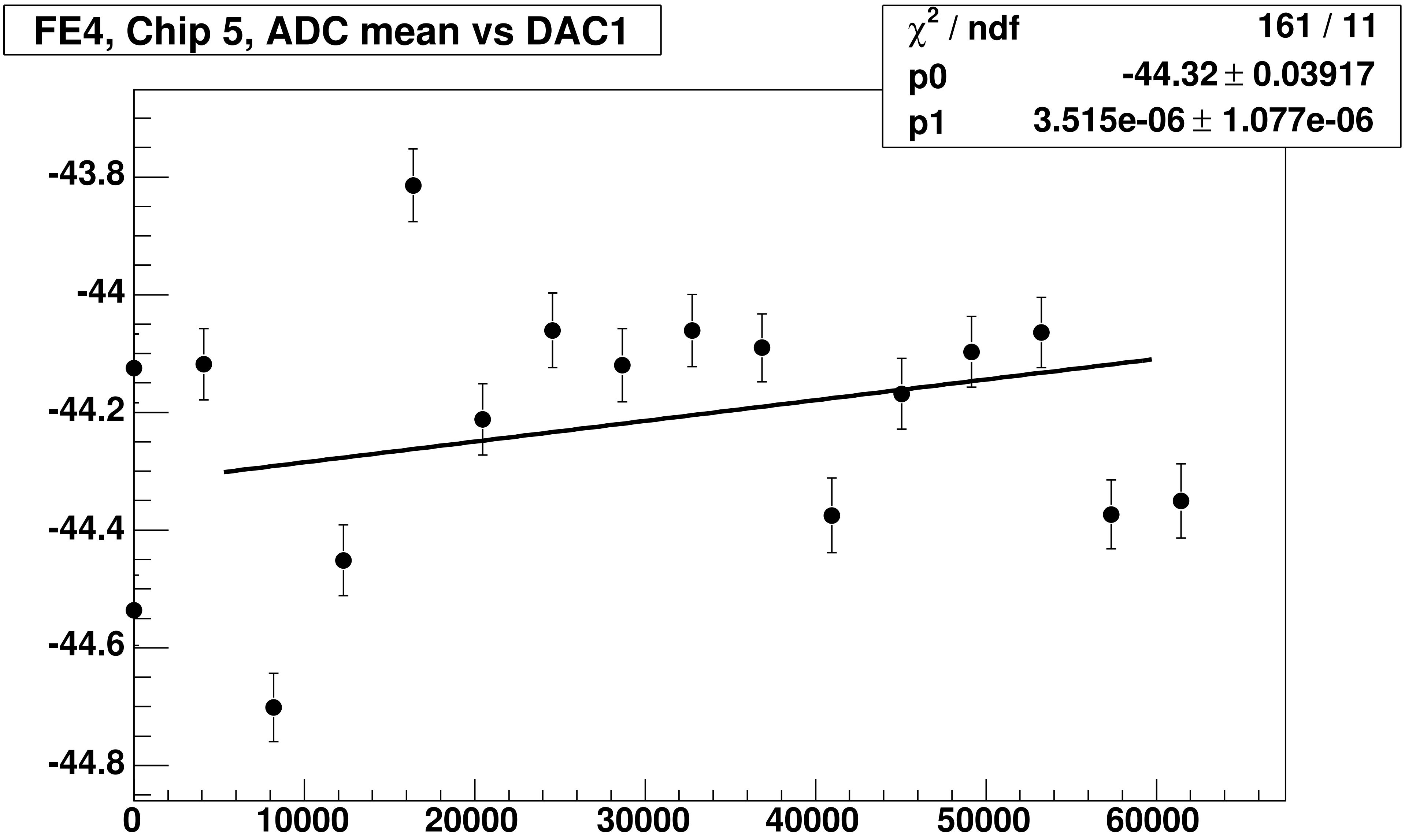

FE4, Chip 4, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000


FE4, Chip 5, ADC mean vs DAC0
χ2 / ndf 2496 / 11
p0 -43.15 ± 0.04081
p1 0.4507 ± 1.317e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

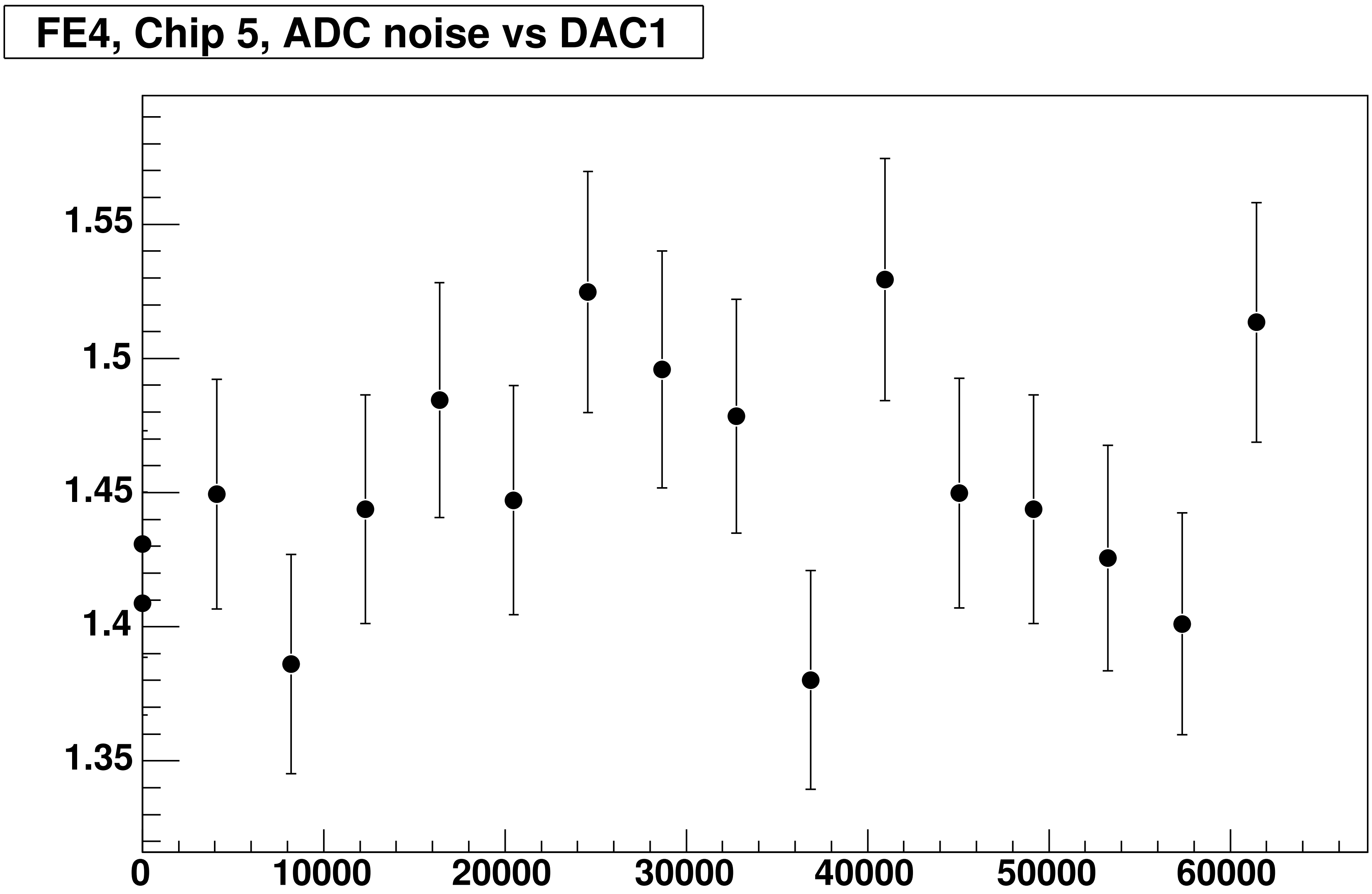

FE4, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



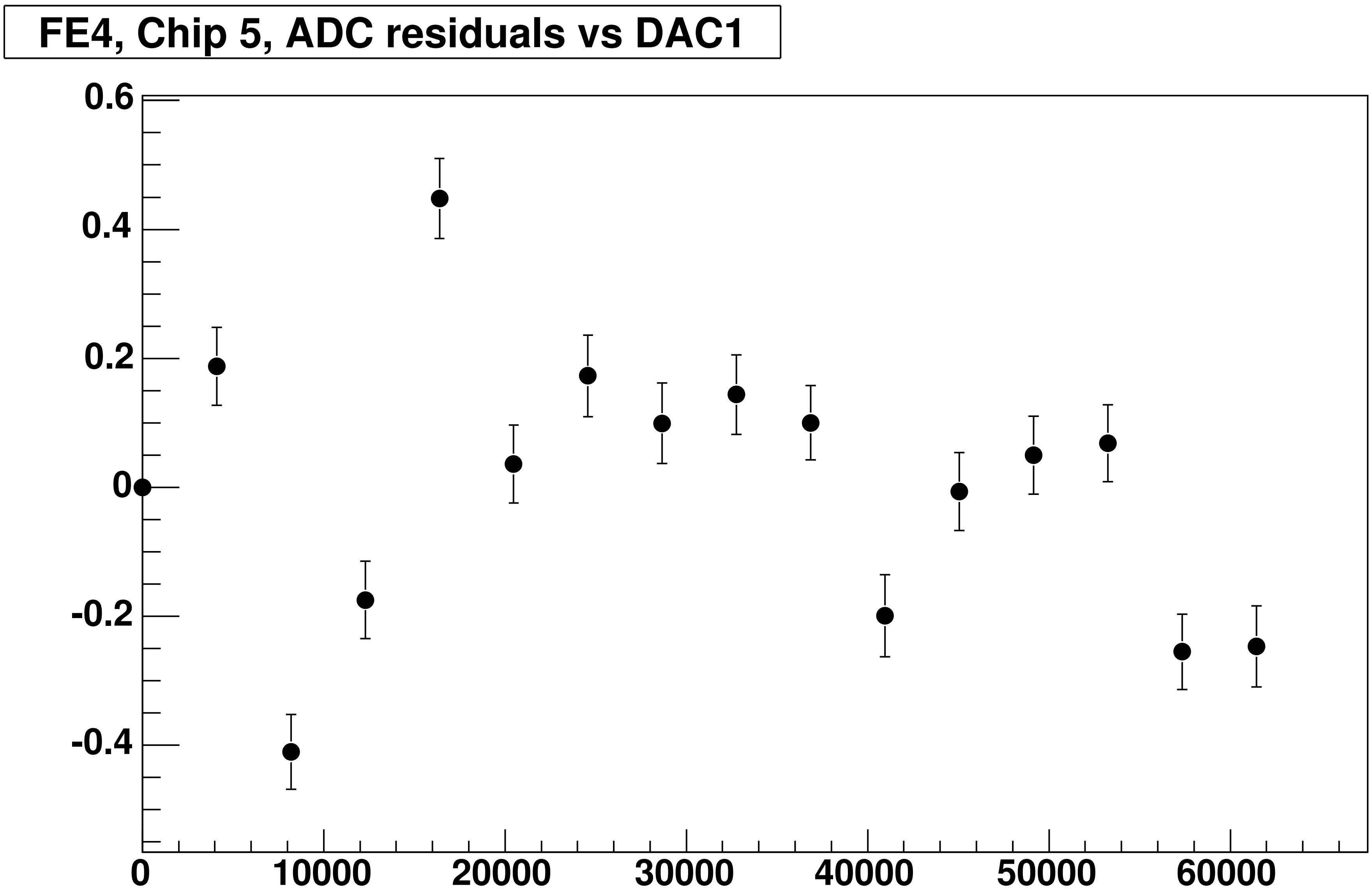
FE4, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

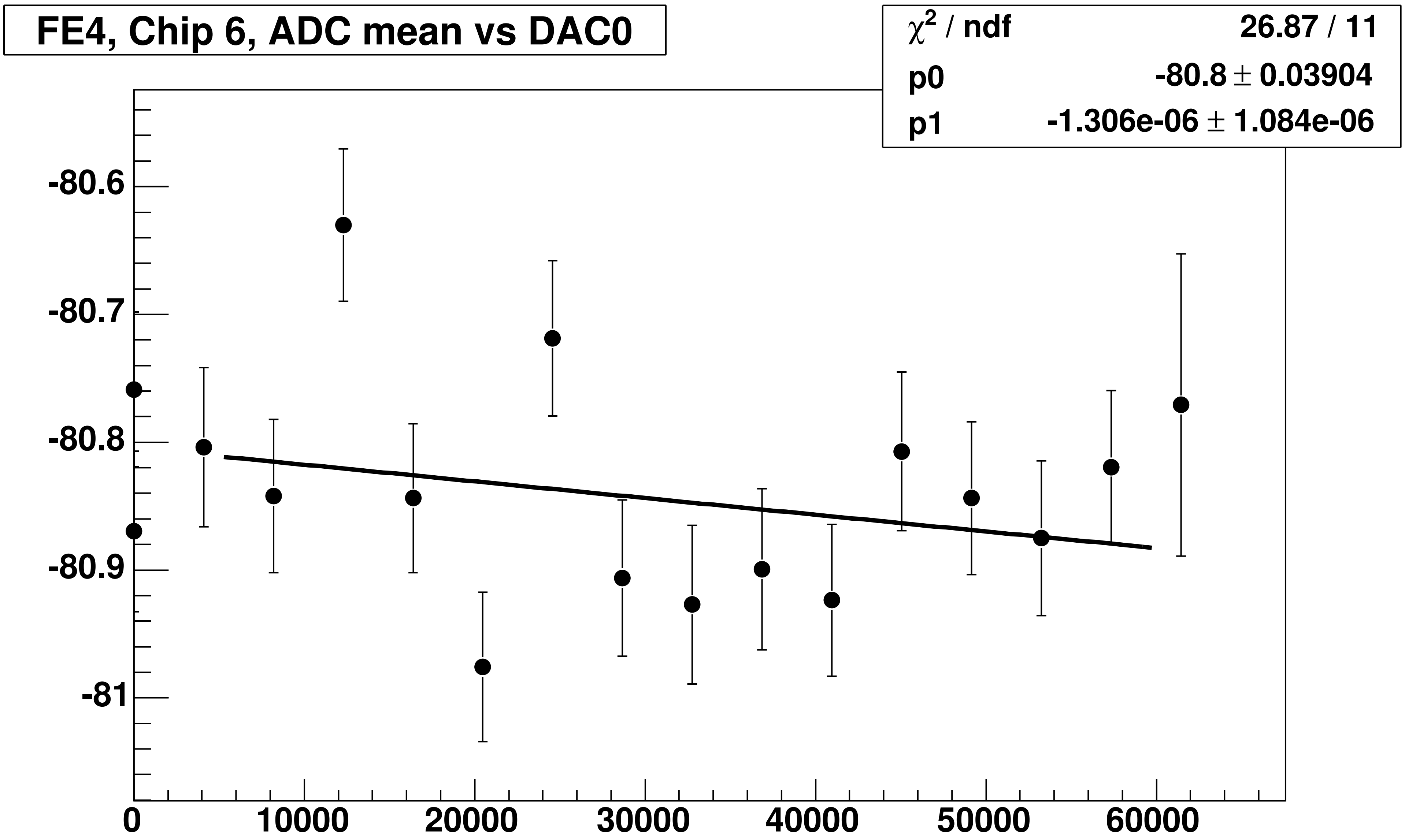


FE4, Chip 5, ADC mean vs DAC1
χ^2 / ndf 161 / 11
p0 -44.32 ± 0.03917
p1 3.515e-06 ± 1.077e-06
-43.8
-44
-44.2
-44.4
-44.6
-44.8
0
10000
20000
30000
40000
50000
60000

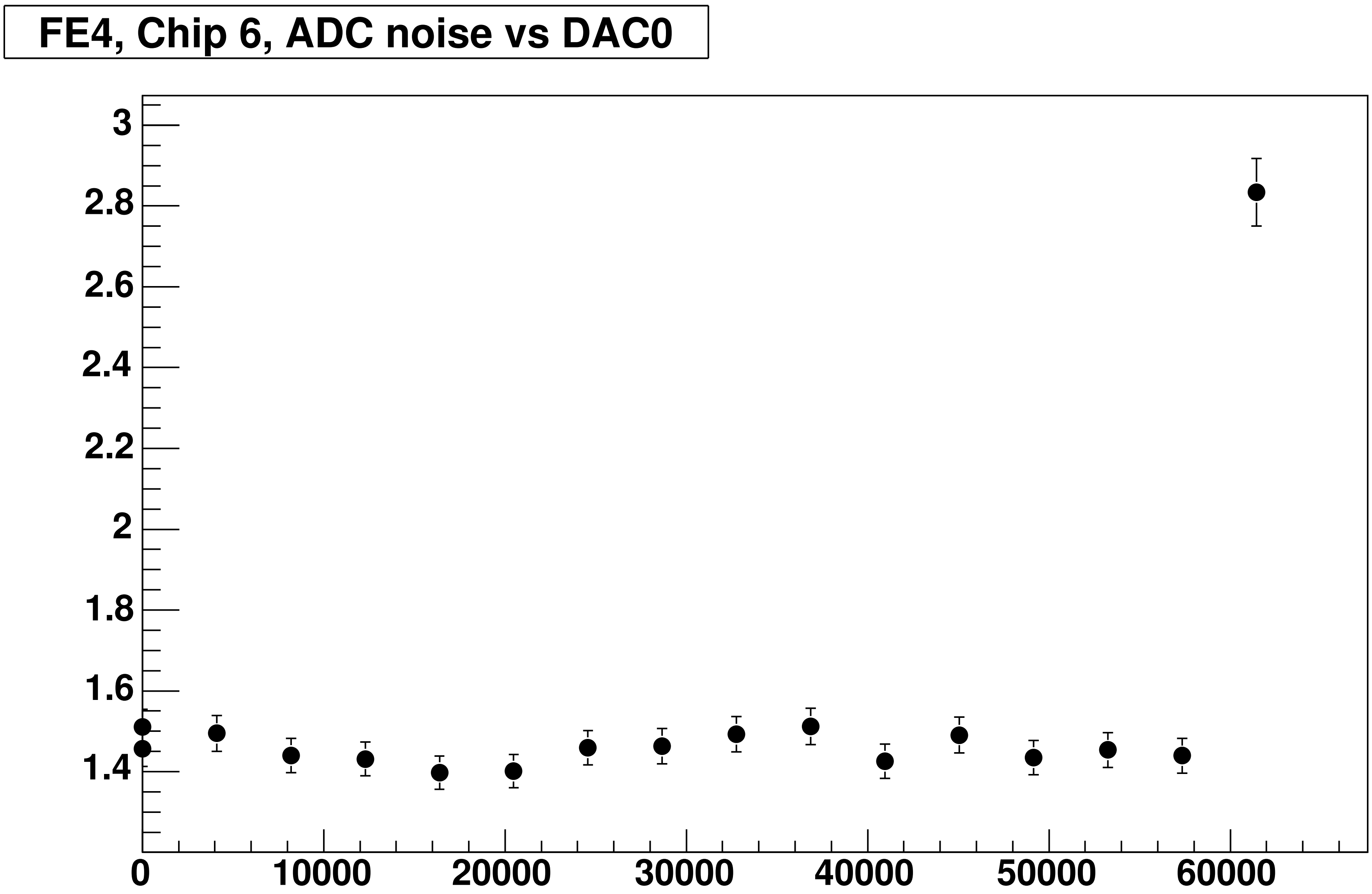


FE4, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

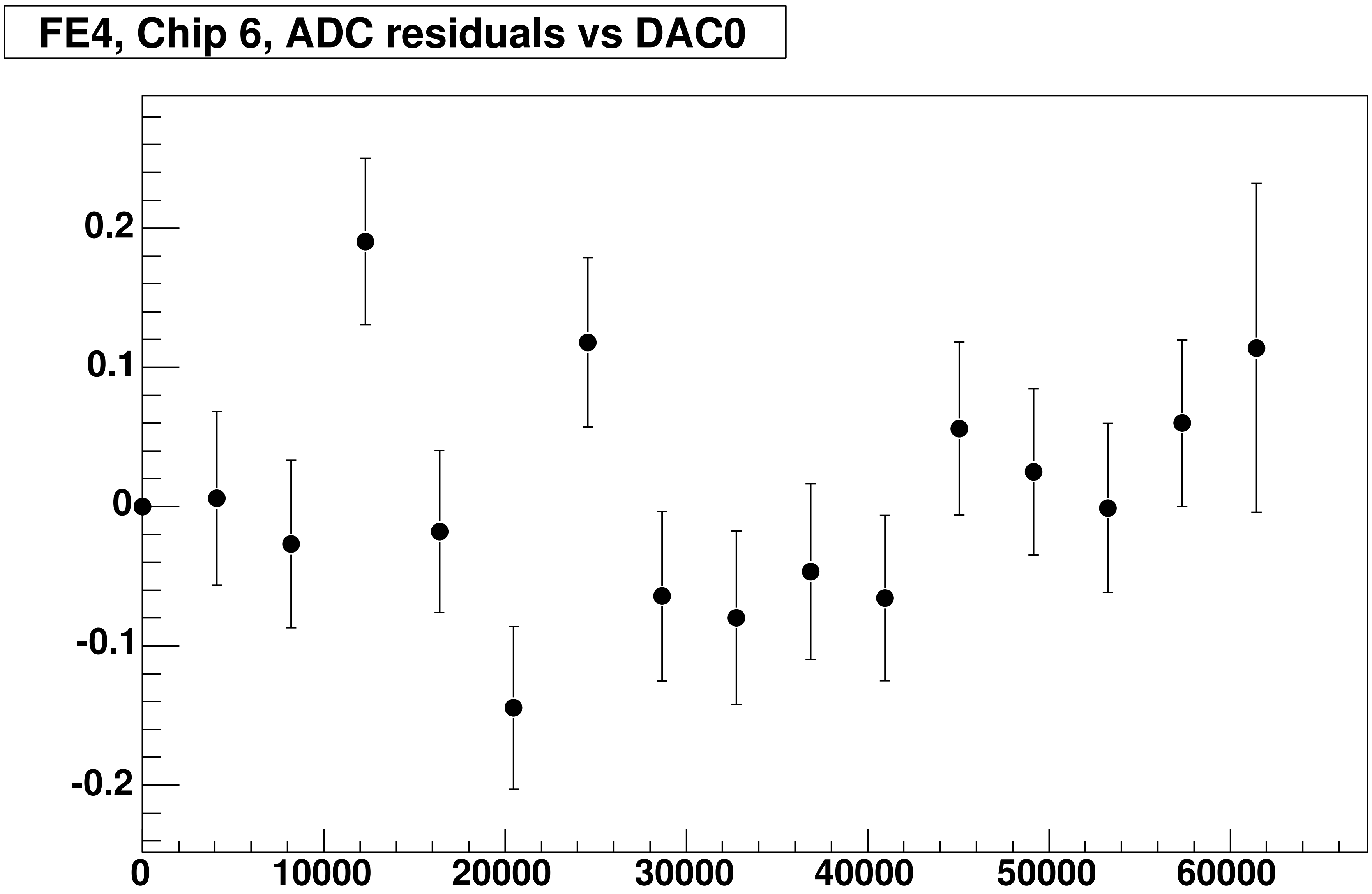

FE4, Chip 5, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000



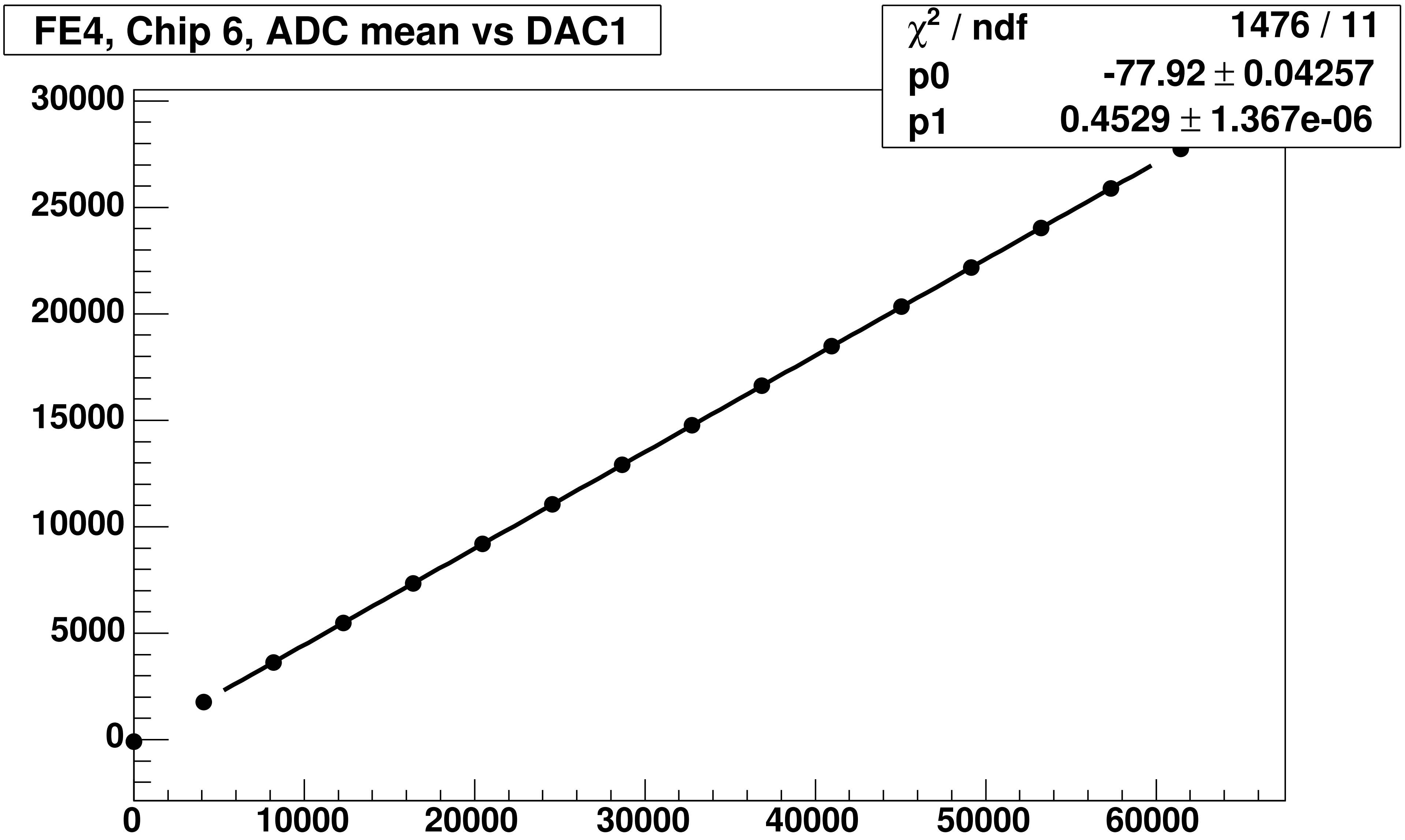
FE4, Chip 6, ADC mean vs DAC0
χ^2 / ndf 26.87 / 11
p0 -80.8 ± 0.03904
p1 -1.306e-06 ± 1.084e-06
-80.6
-80.7
-80.8
-80.9
-81
0
10000
20000
30000
40000
50000
60000

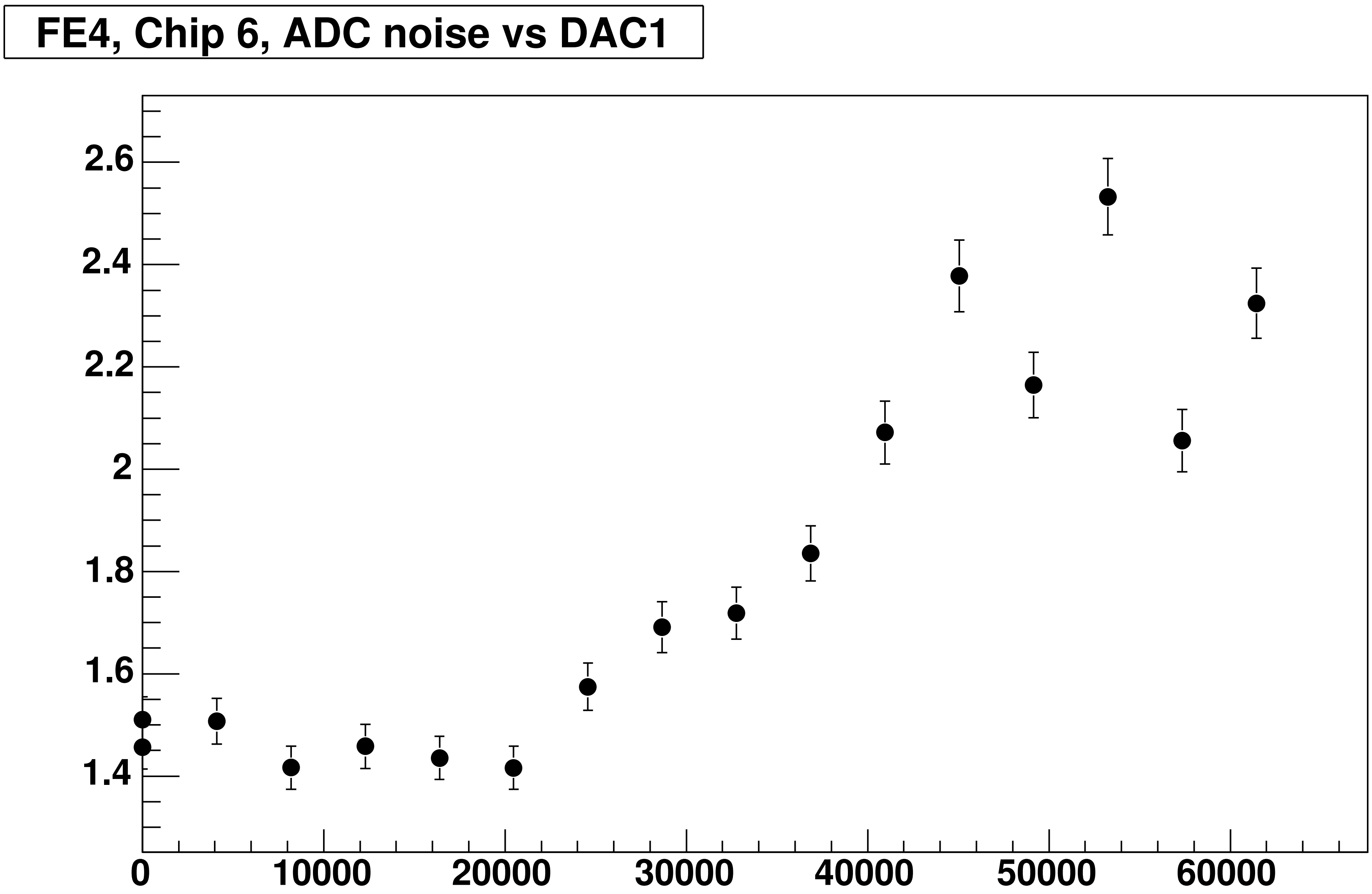


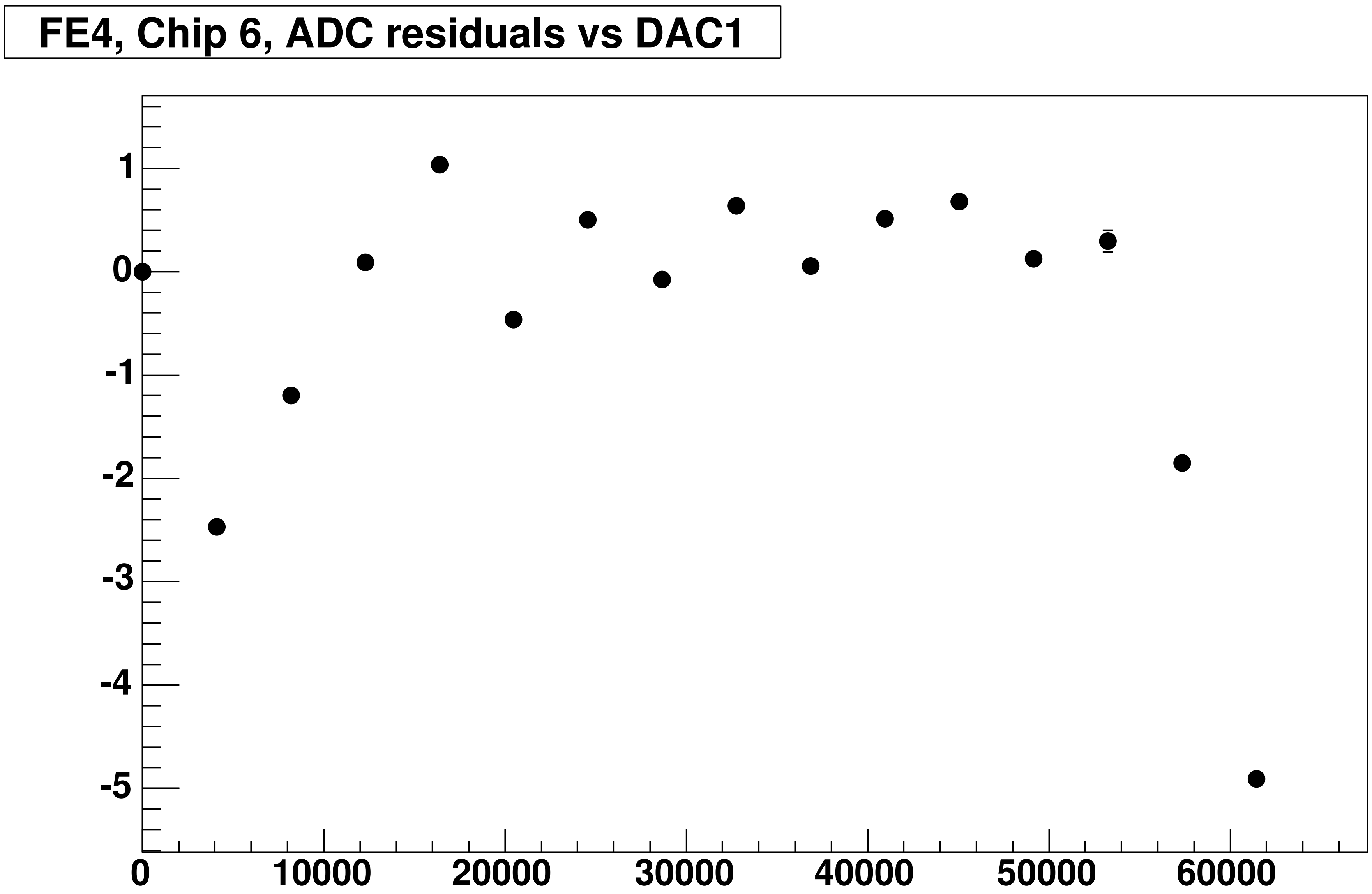
FE4, Chip 6, ADC noise vs DAC0
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



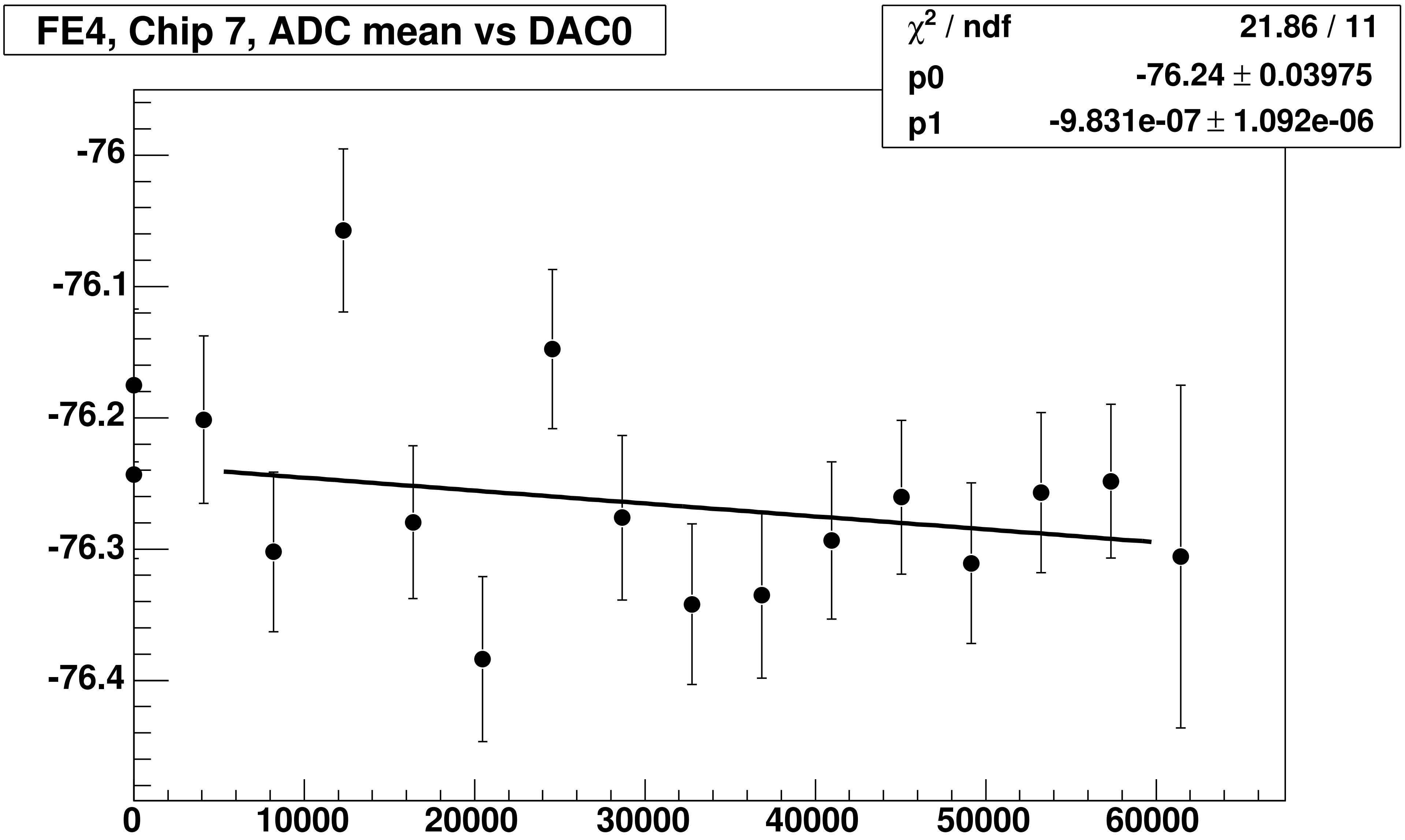
FE4, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

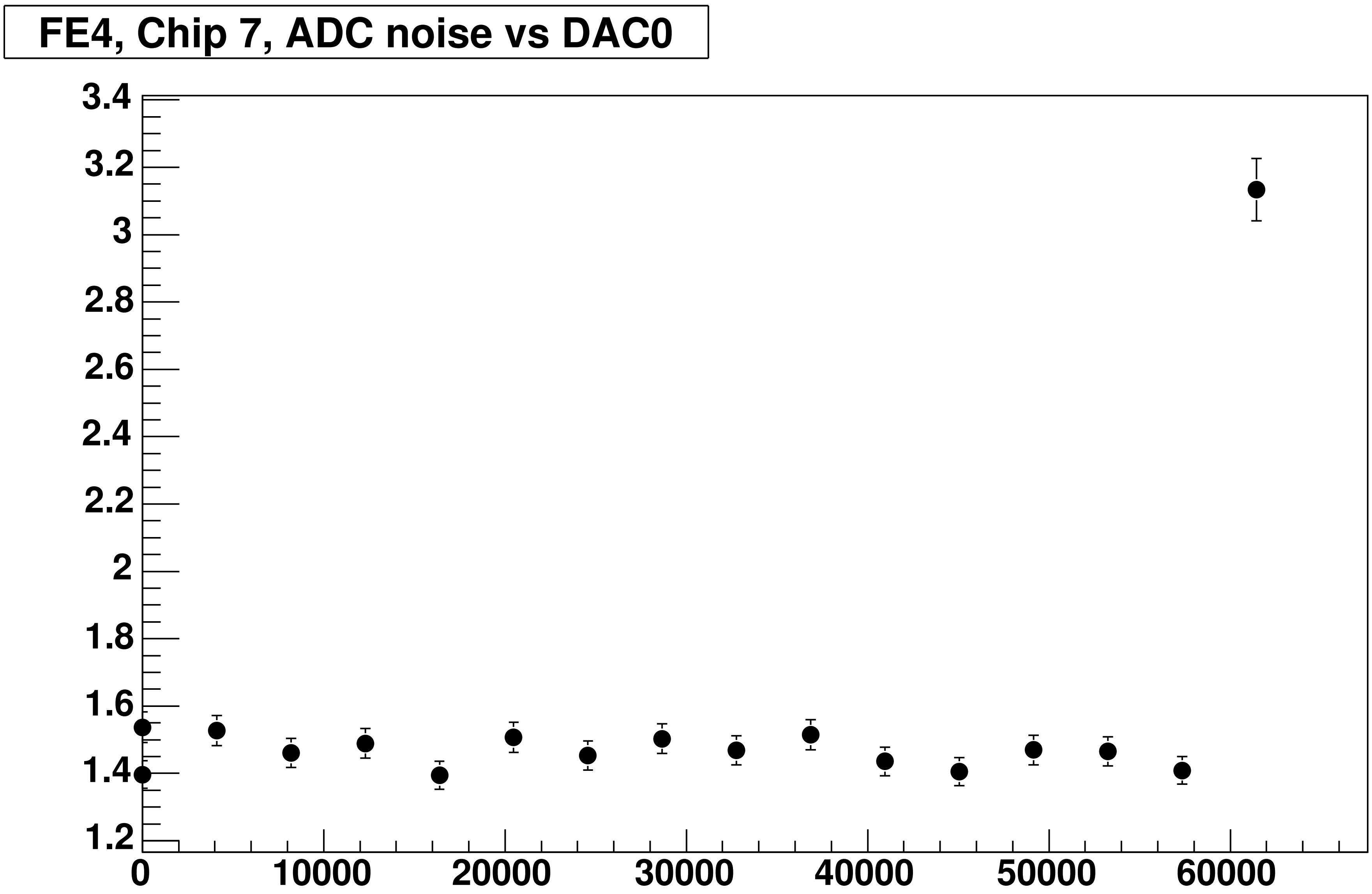

FE4, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1476 / 11
p0 -77.92 ± 0.04257
p1 0.4529 ± 1.367e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

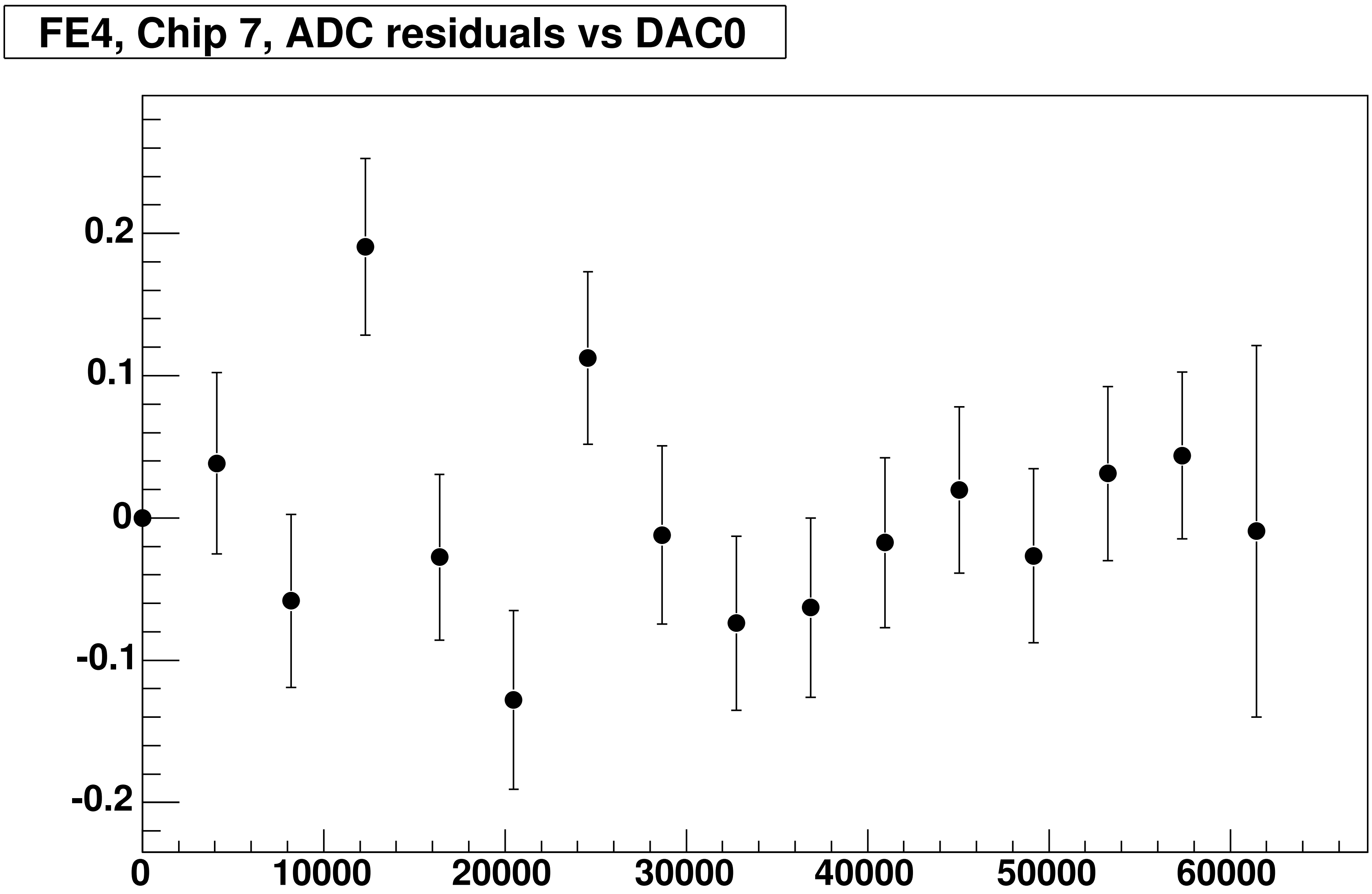

FE4, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

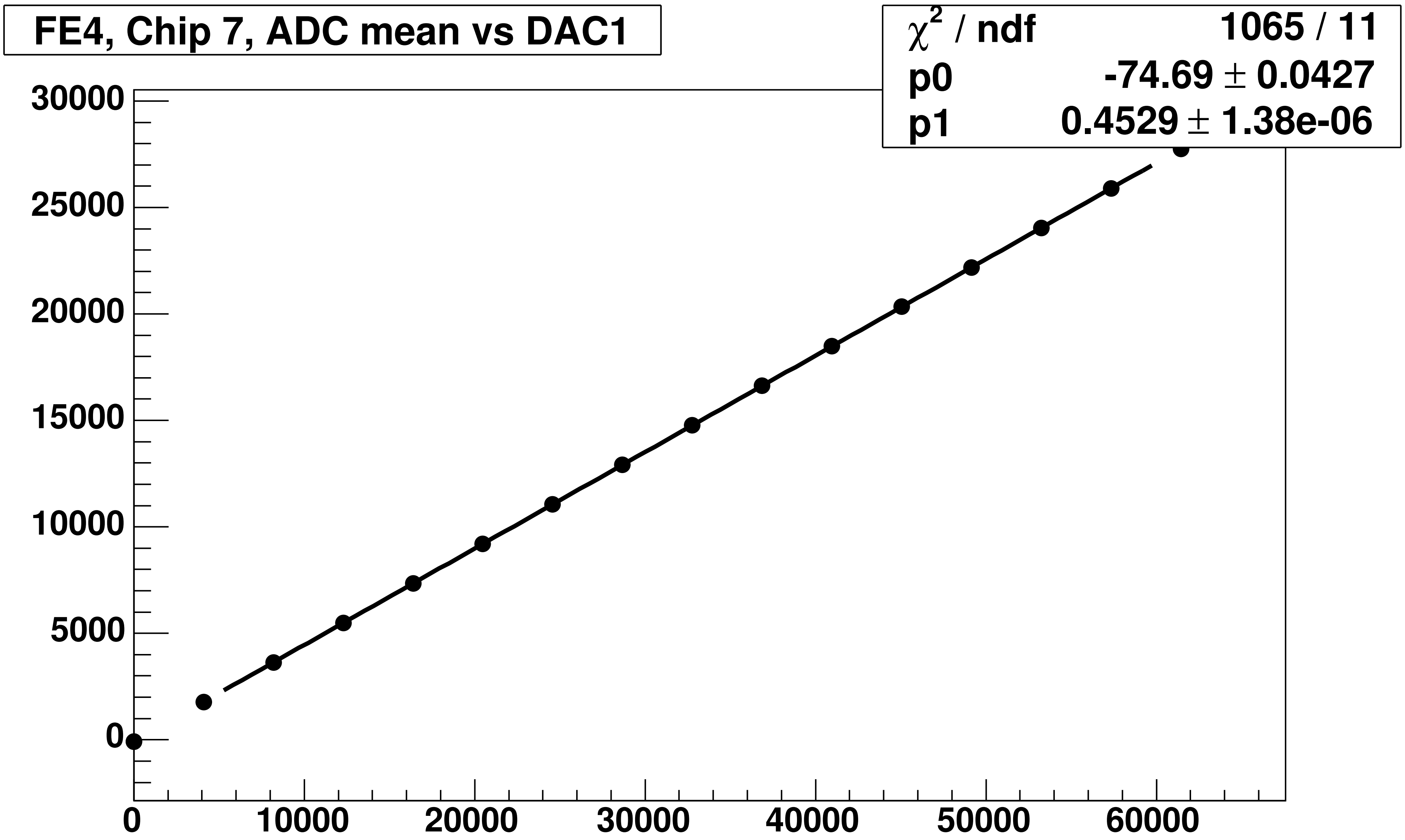


FE4, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

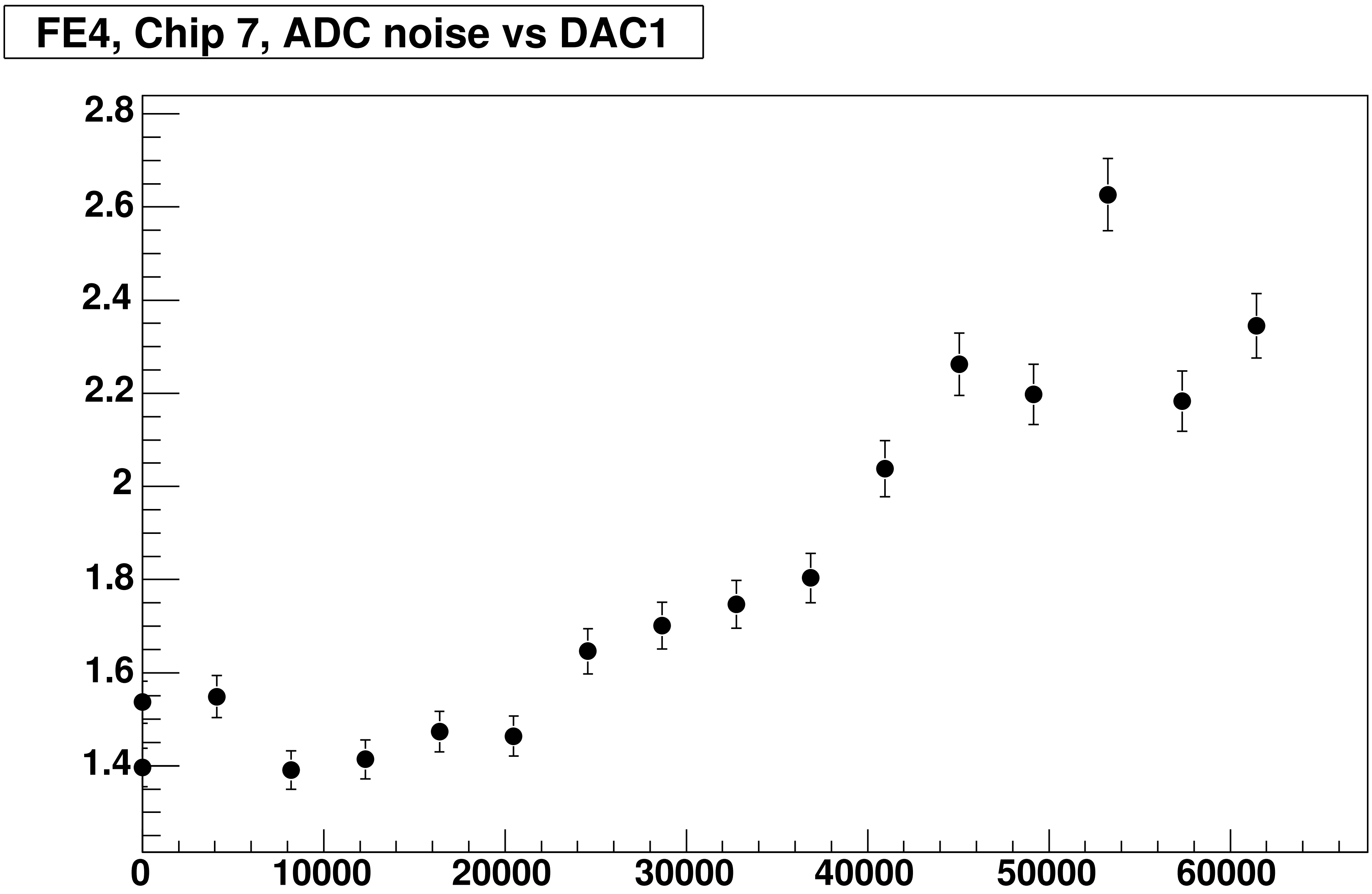

FE4, Chip 7, ADC mean vs DAC0
χ^2 / ndf 21.86 / 11
p0 -76.24 ± 0.03975
p1 -9.831e-07 ± 1.092e-06
-76
-76.1
-76.2
-76.3
-76.4
0
10000
20000
30000
40000
50000
60000


FE4, Chip 7, 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

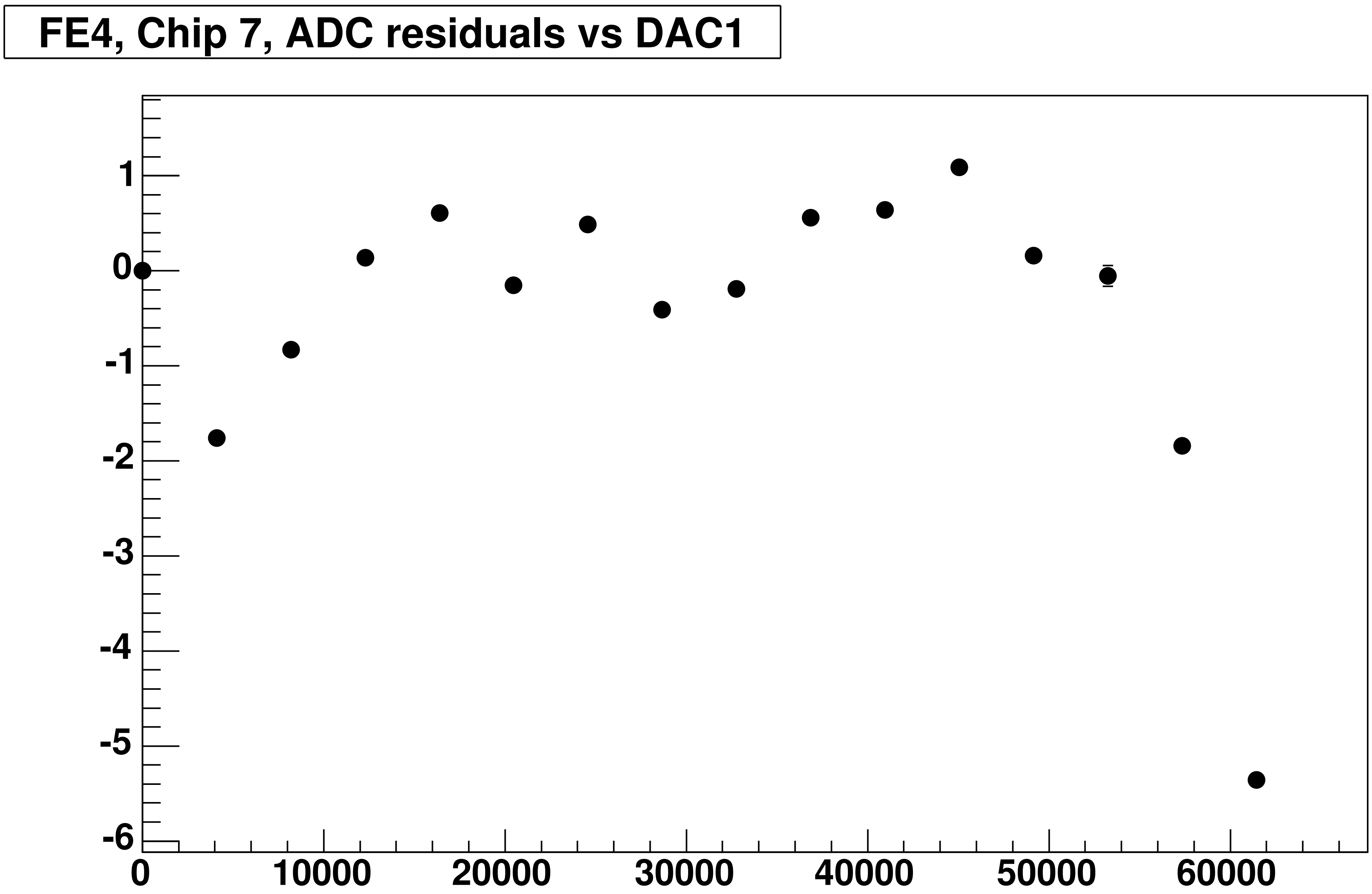

FE4, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



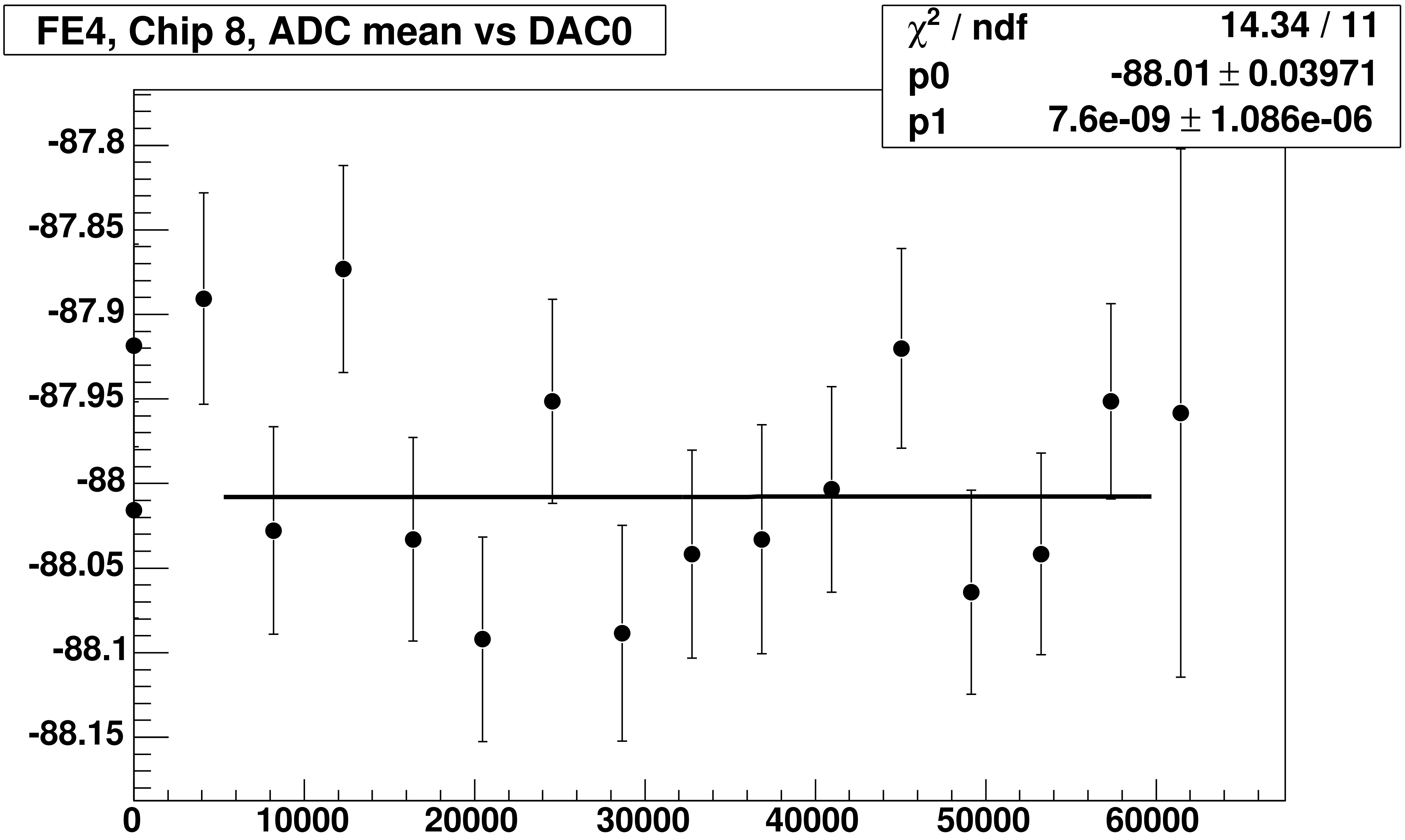
FE4, Chip 7, ADC mean vs DAC1
χ² / ndf 1065 / 11
p0 -74.69 ± 0.0427
p1 0.4529 ± 1.38e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



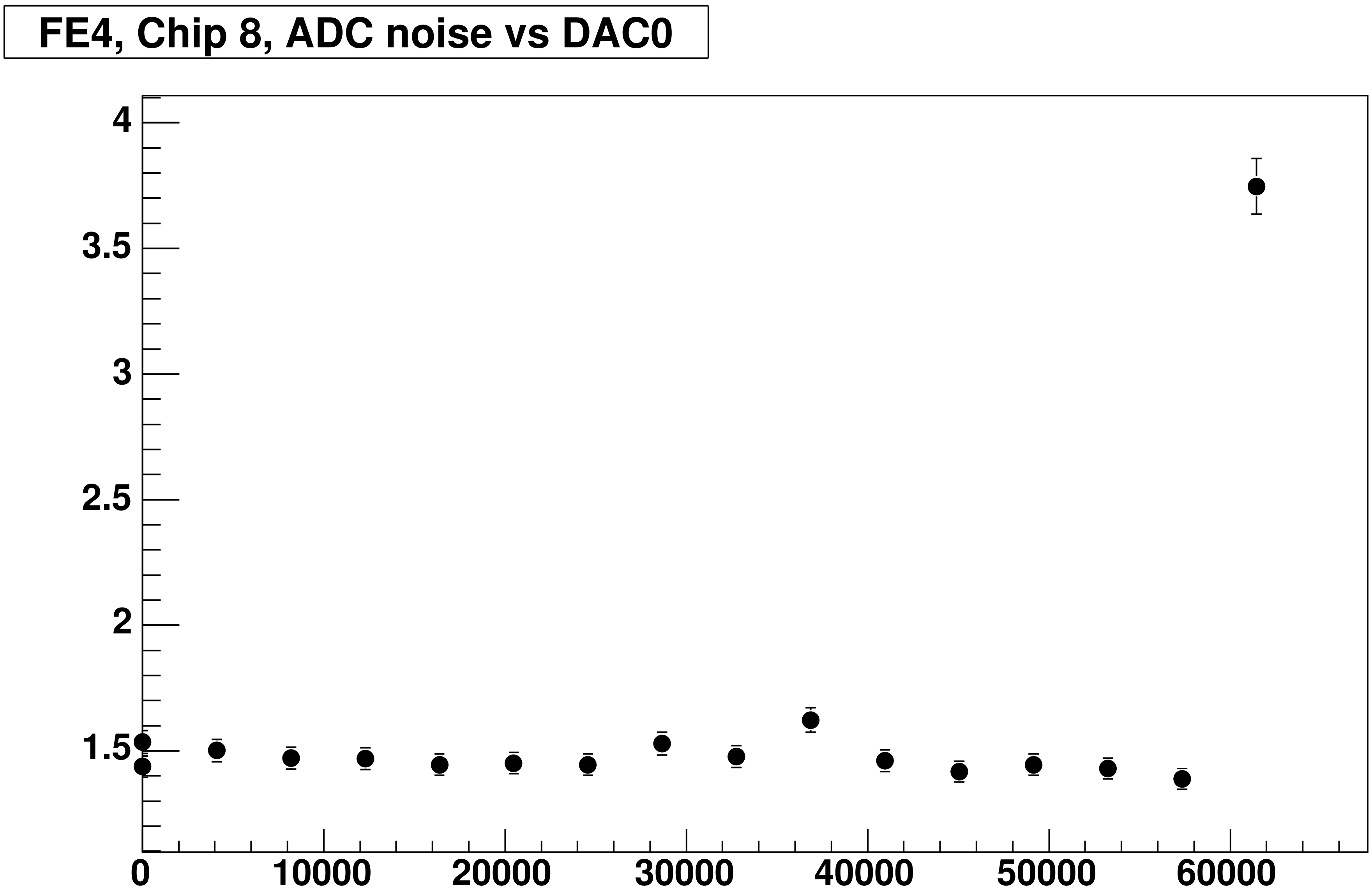
FE4, Chip 7, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

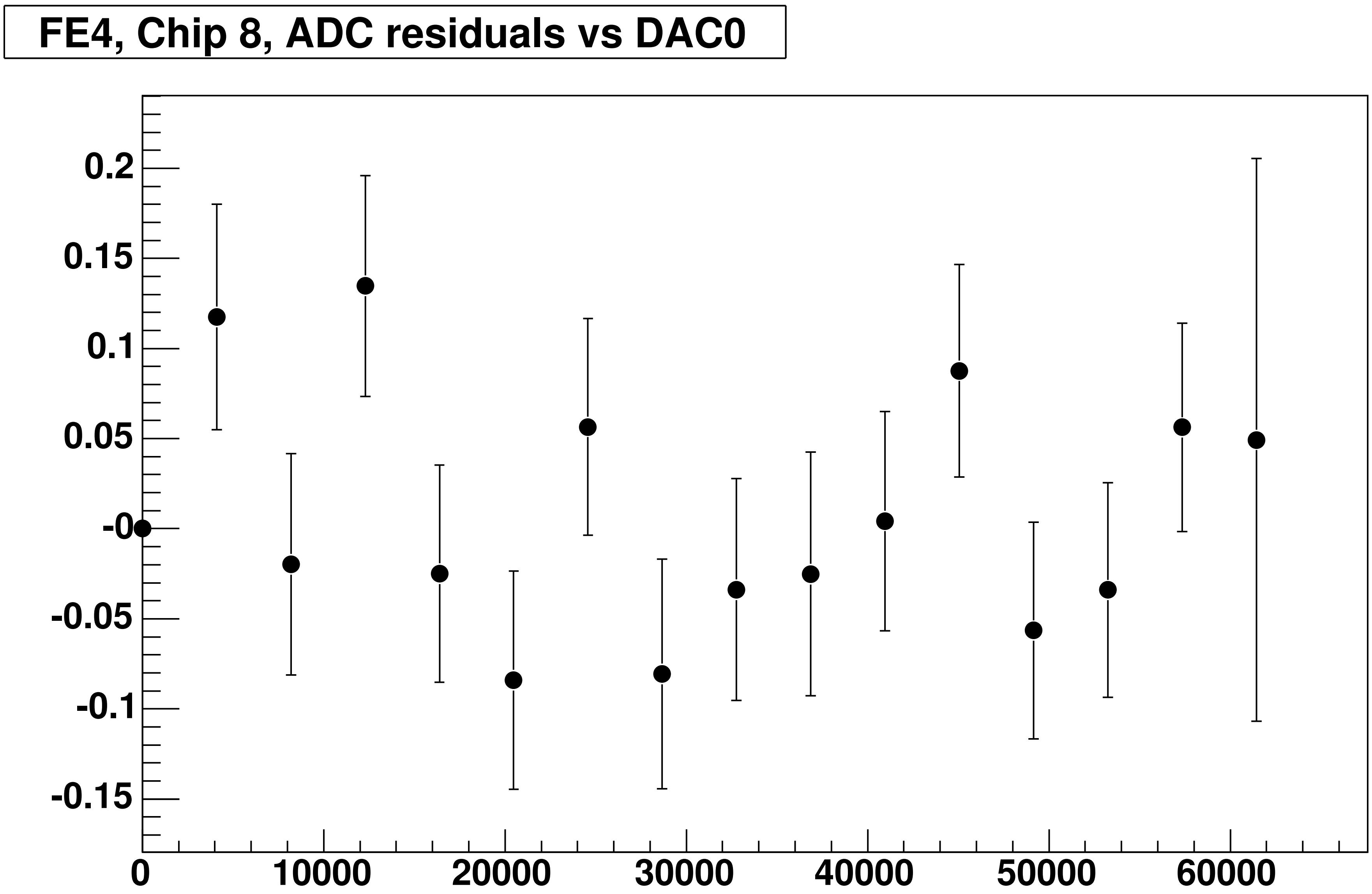


FE4, Chip 7, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

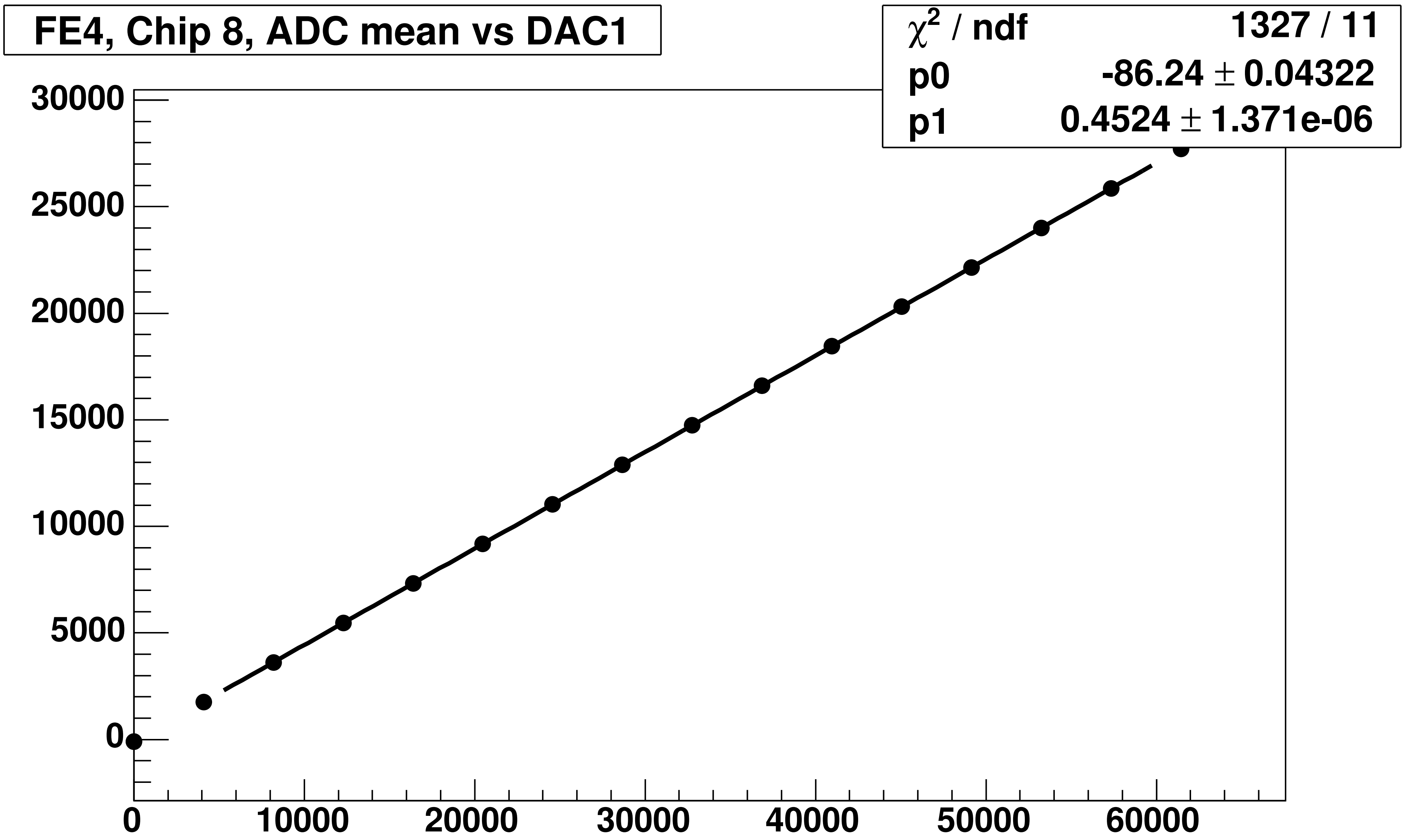


FE4, Chip 8, ADC mean vs DAC0
χ^2 / ndf 14.34 / 11
p0 -88.01 ± 0.03971
p1 7.6e-09 ± 1.086e-06
-87.8
-87.85
-87.9
-87.95
-88
-88.05
-88.1
-88.15
0
10000
20000
30000
40000
50000
60000


FE4, Chip 8, ADC noise vs DAC0
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

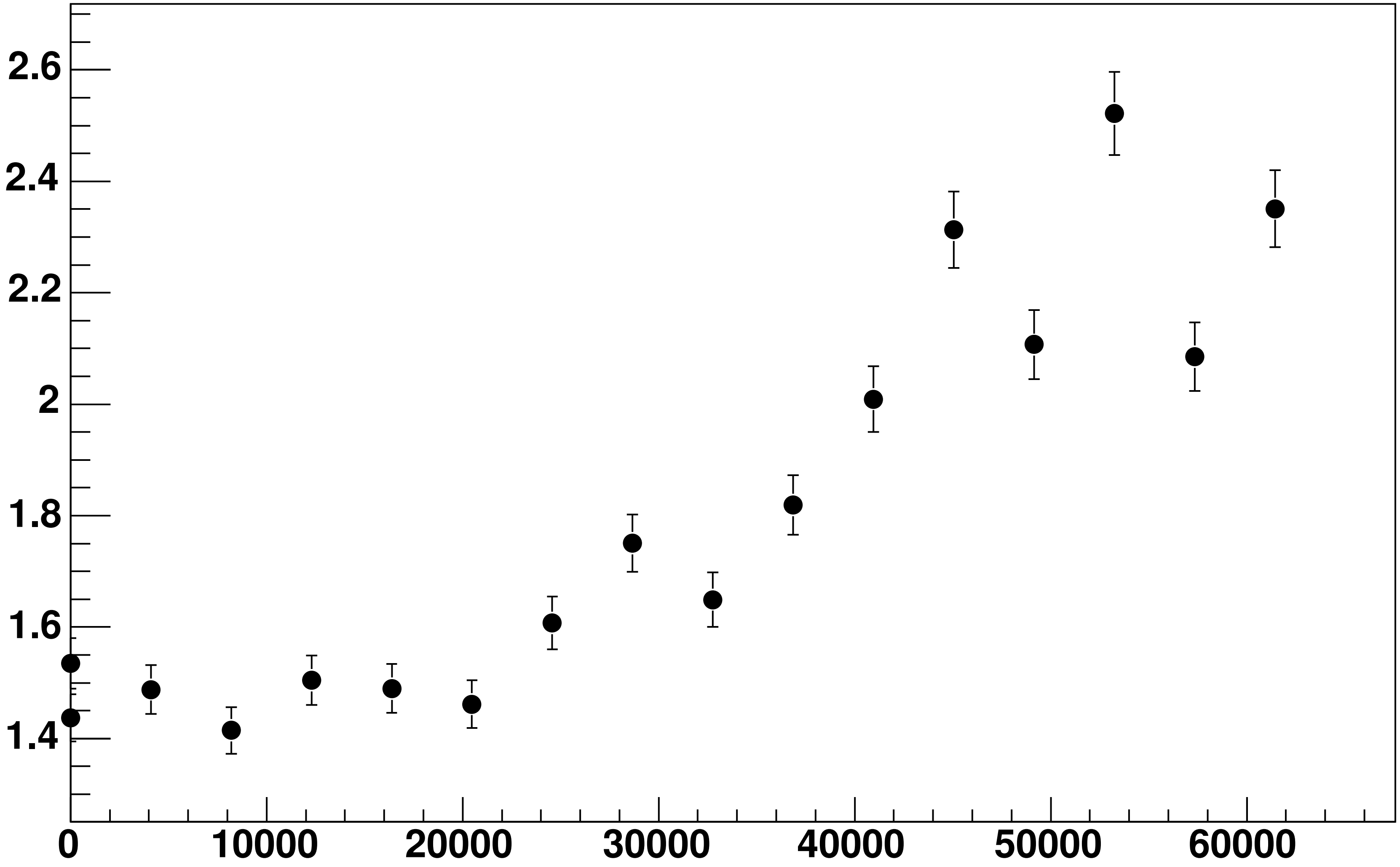


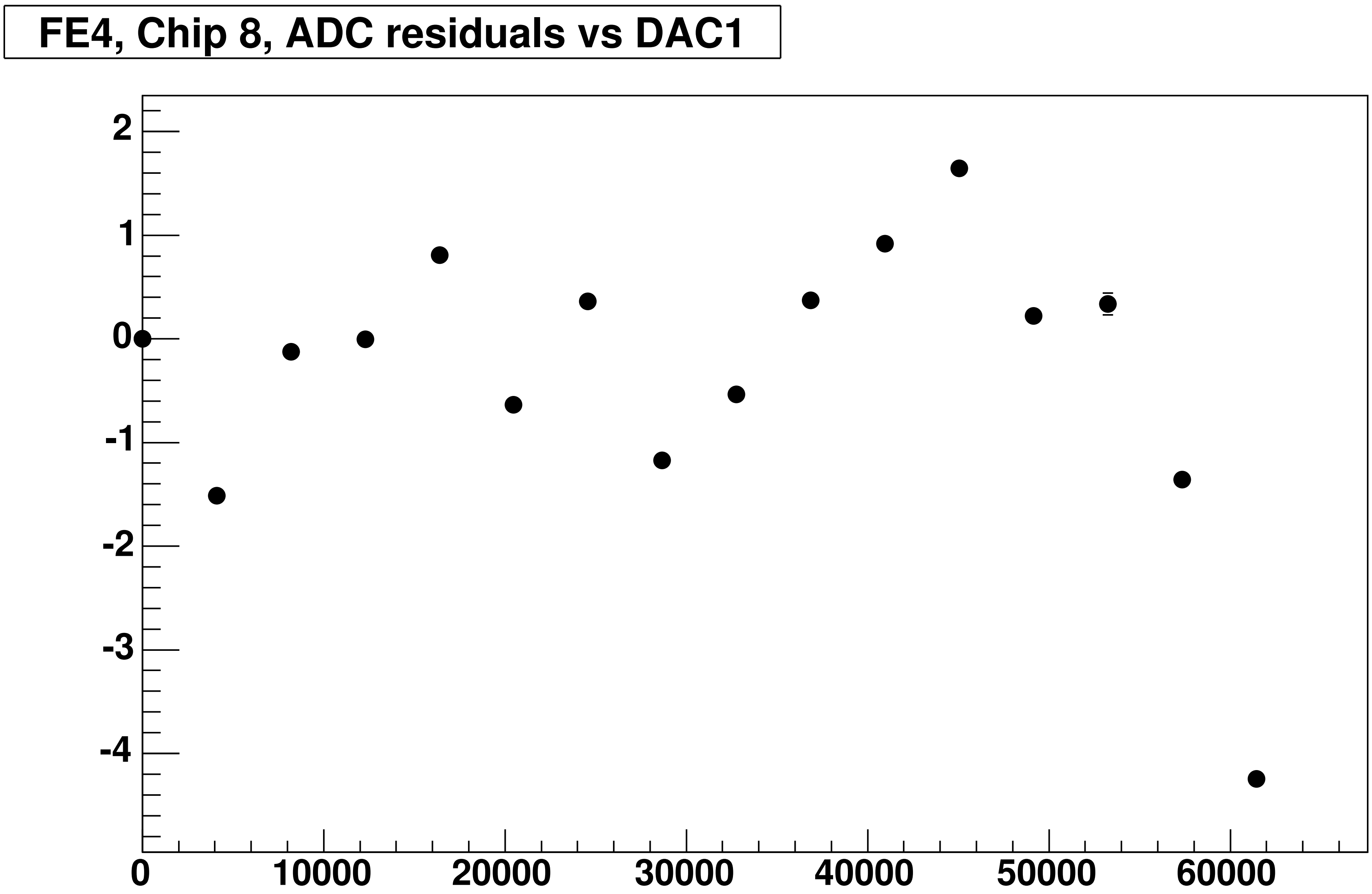
FE4, Chip 8, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



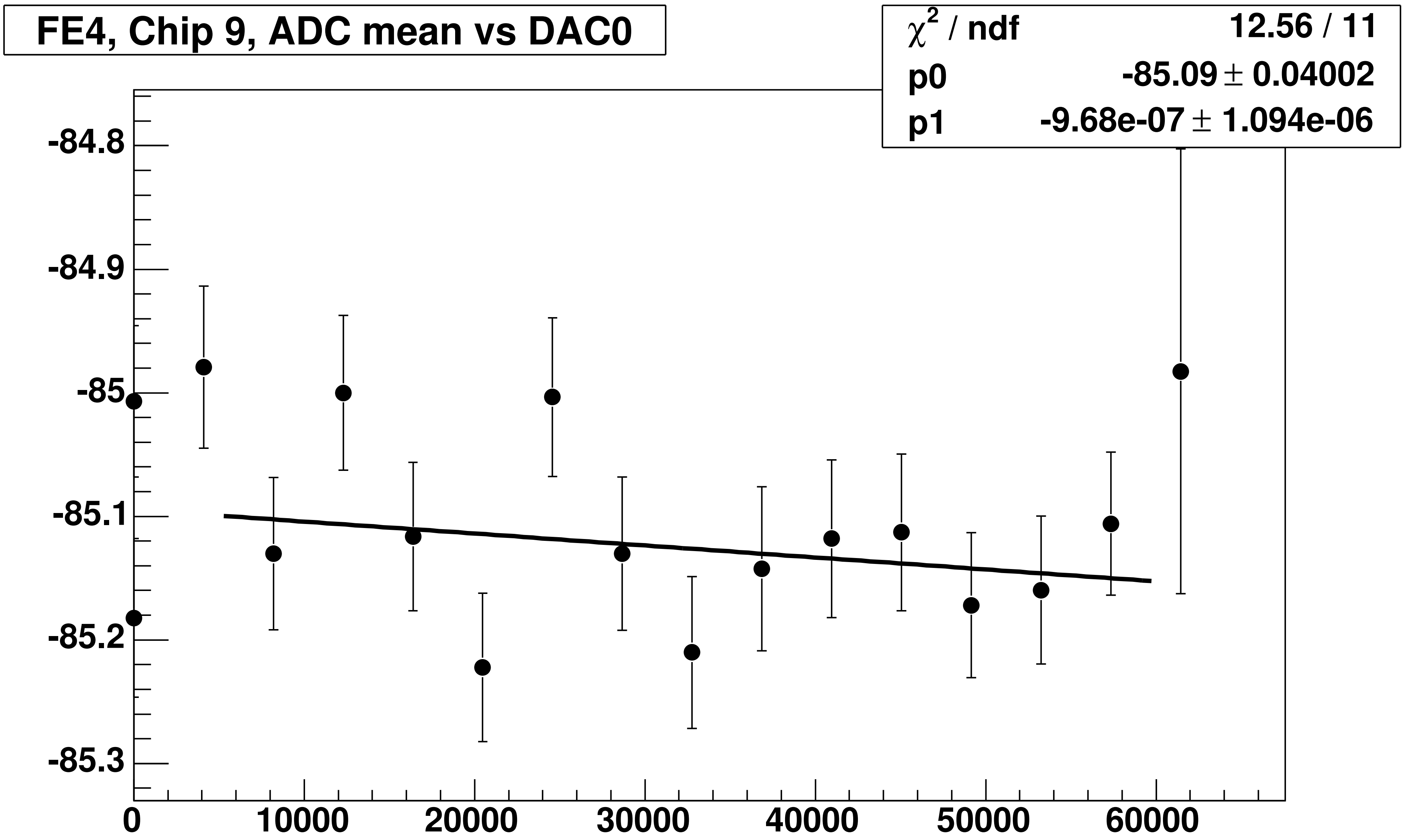
FE4, Chip 8, ADC mean vs DAC1
χ² / ndf 1327 / 11
p0 -86.24 ± 0.04322
p1 0.4524 ± 1.371e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

FE4, Chip 8, ADC noise vs DAC1

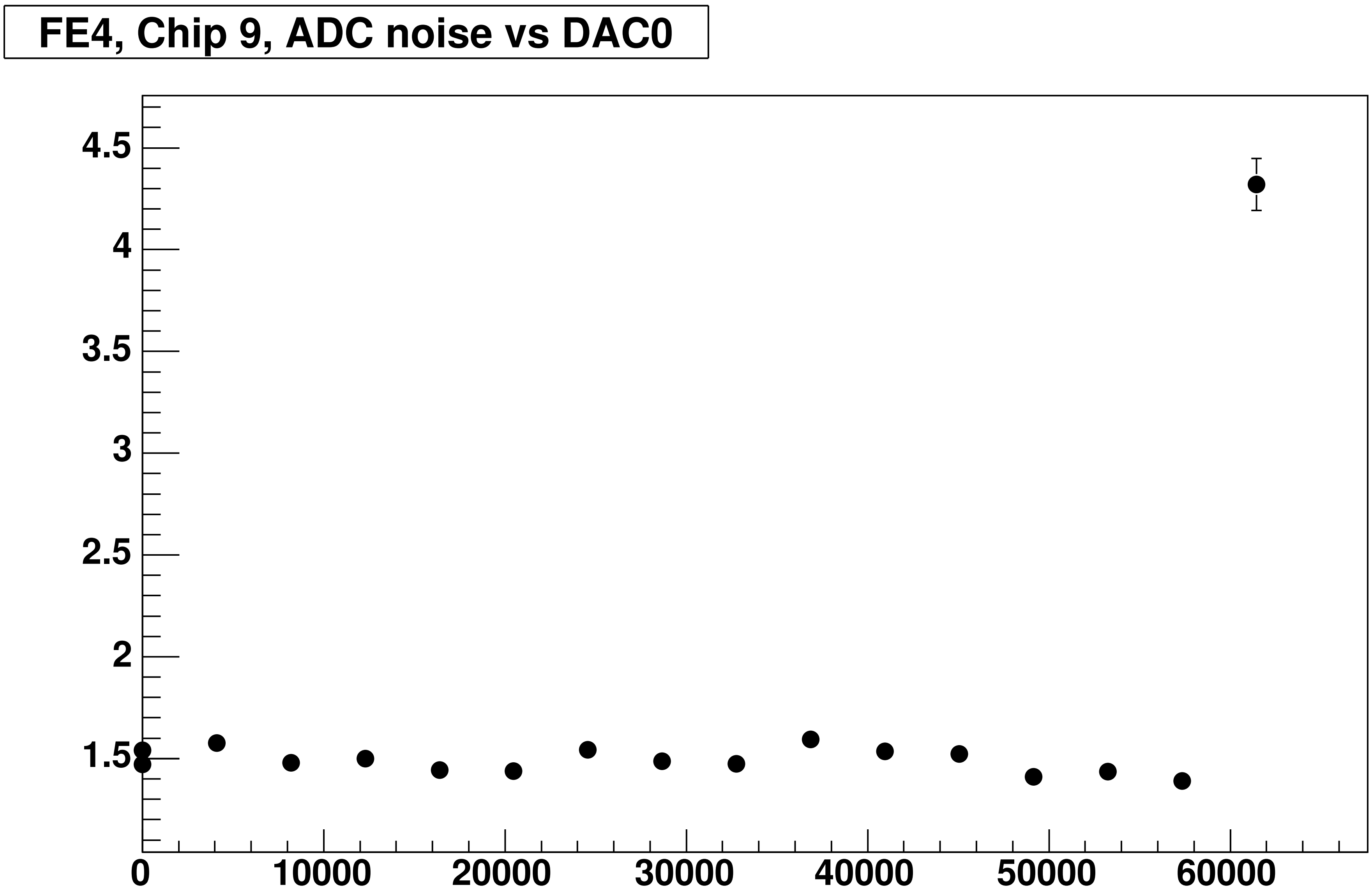


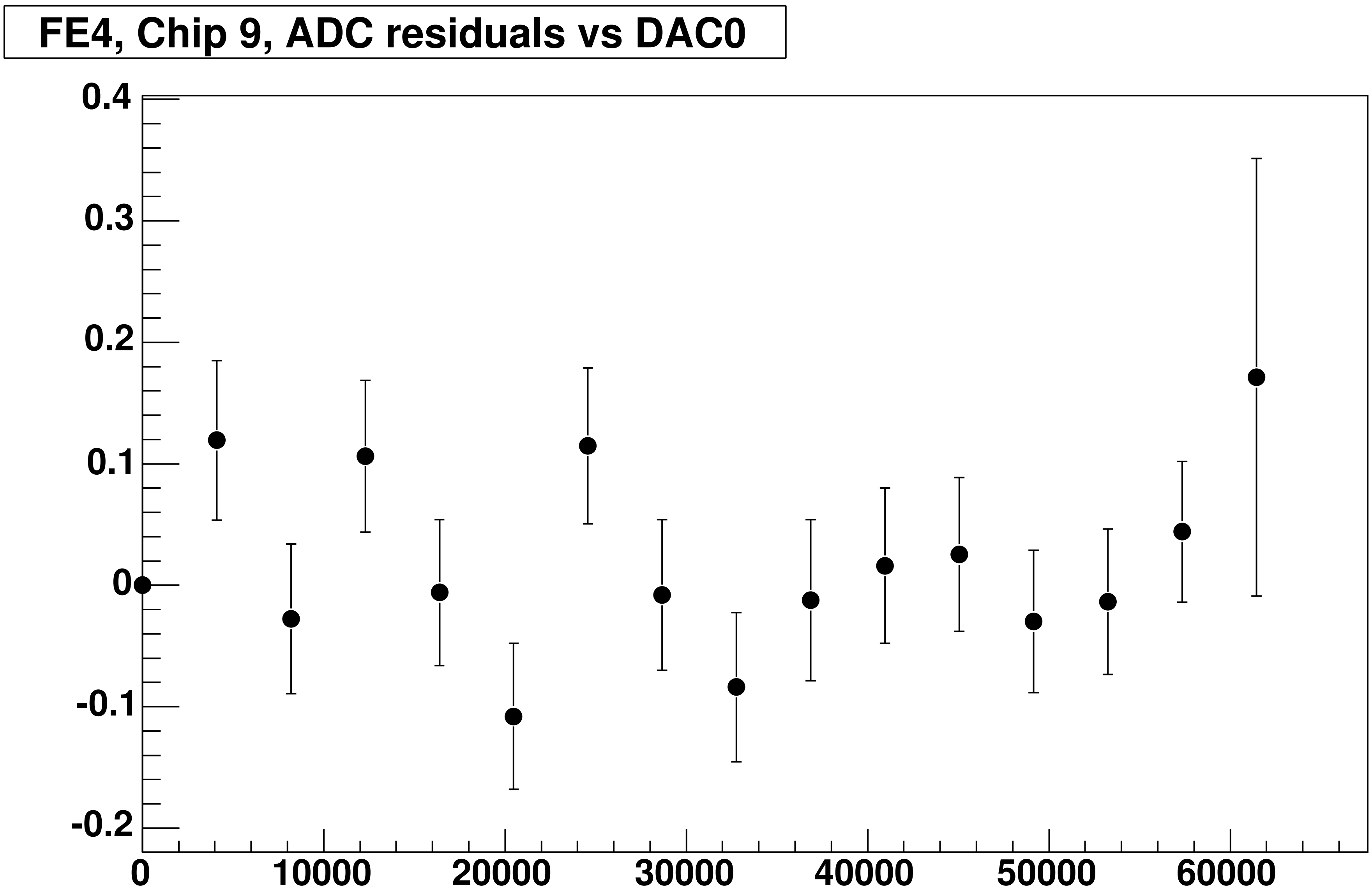


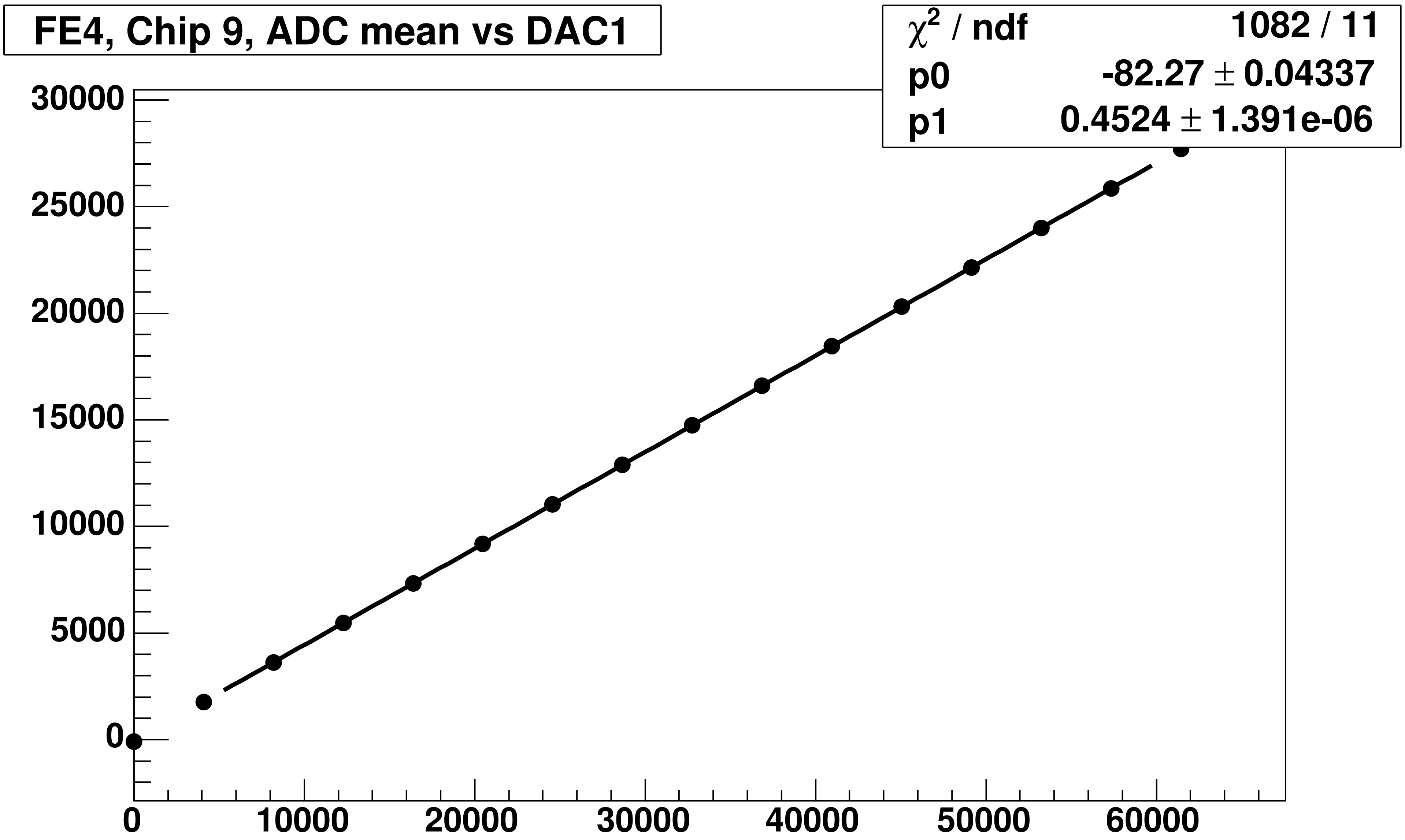
FE4, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

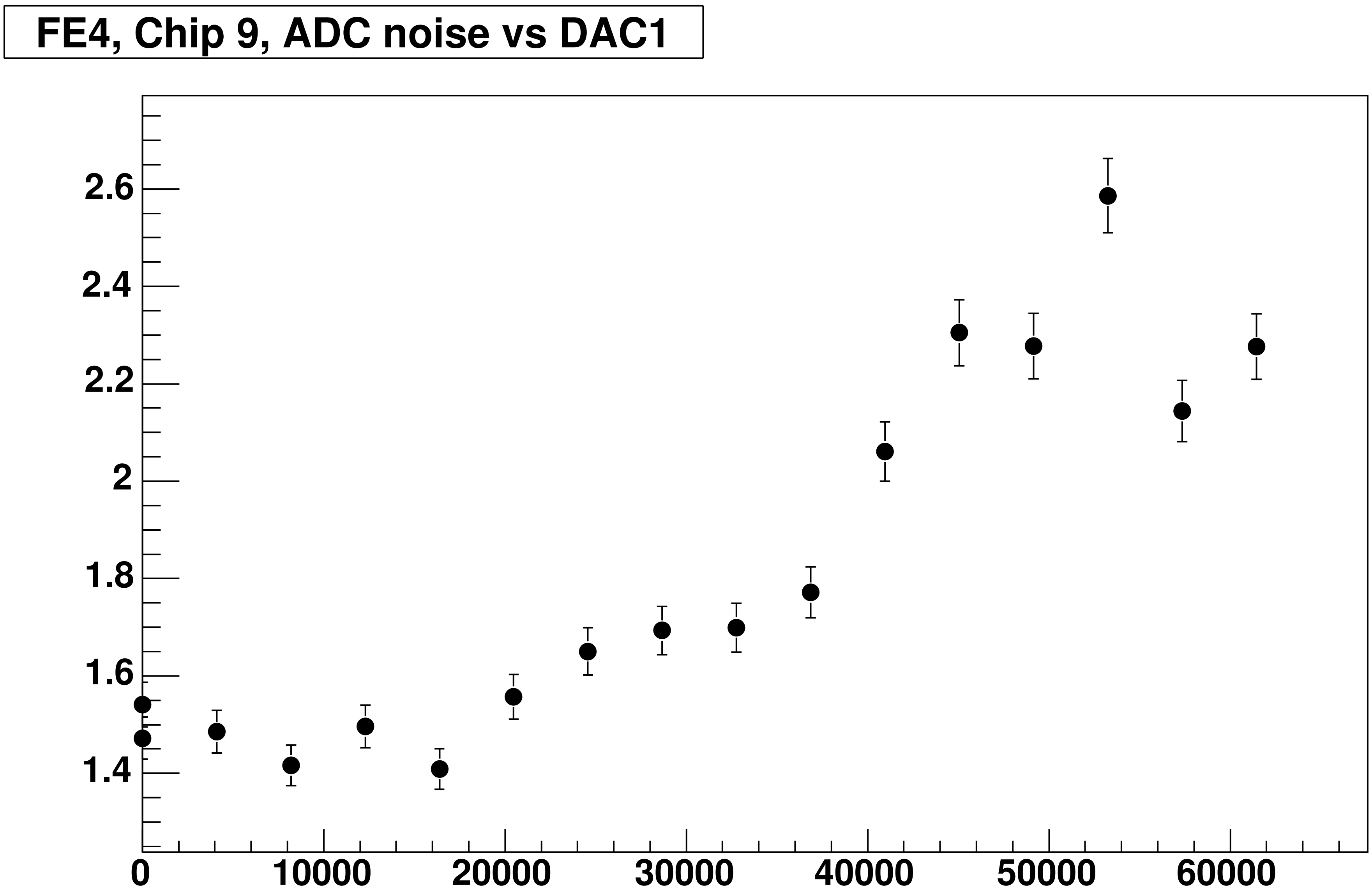


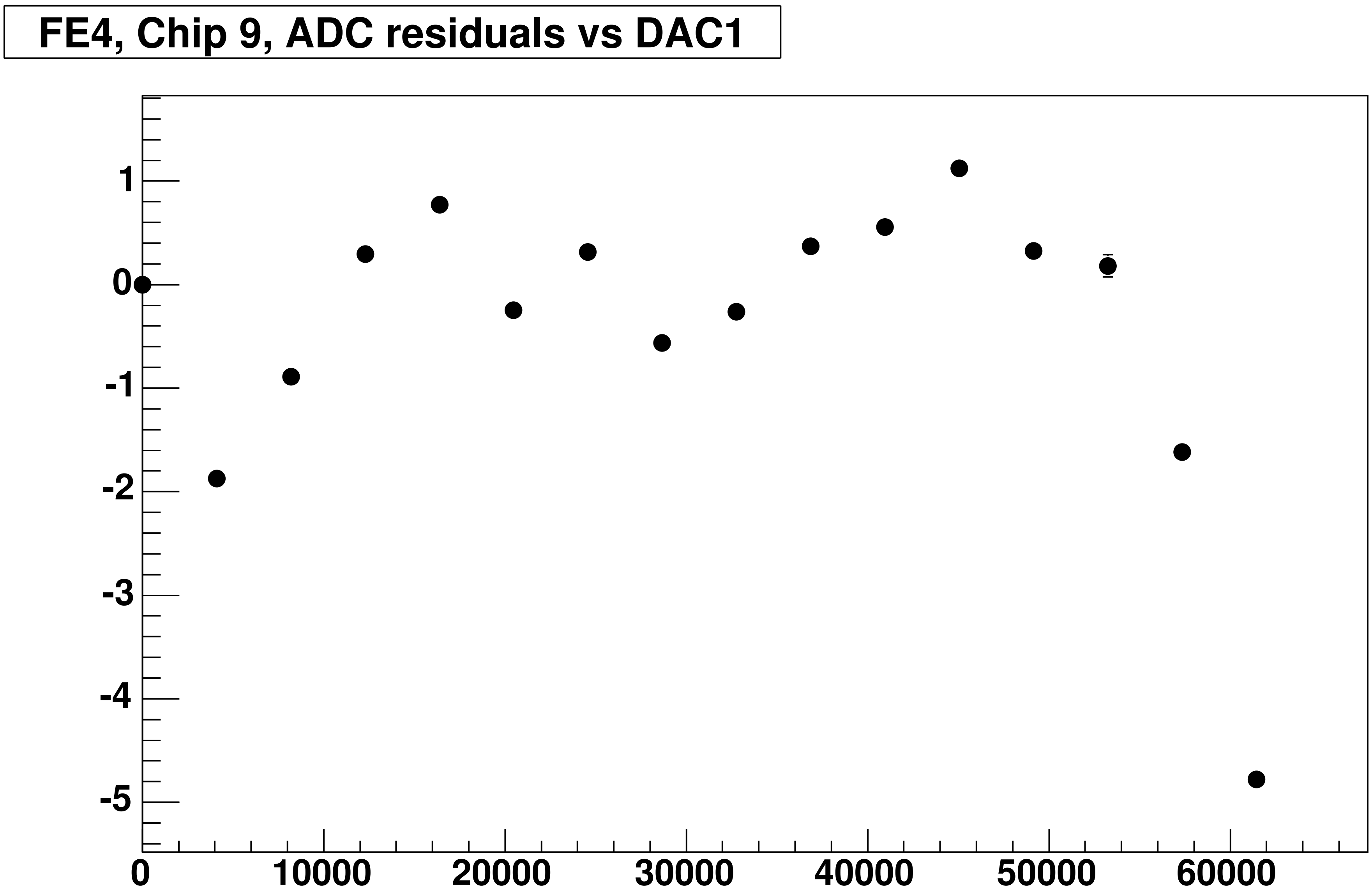
FE4, Chip 9, ADC mean vs DAC0
χ² / ndf 12.56 / 11
p0 -85.09 ± 0.04002
p1 -9.68e-07 ± 1.094e-06
-84.8
-84.9
-85
-85.1
-85.2
-85.3
0
10000
20000
30000
40000
50000
60000


FE4, Chip 9, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

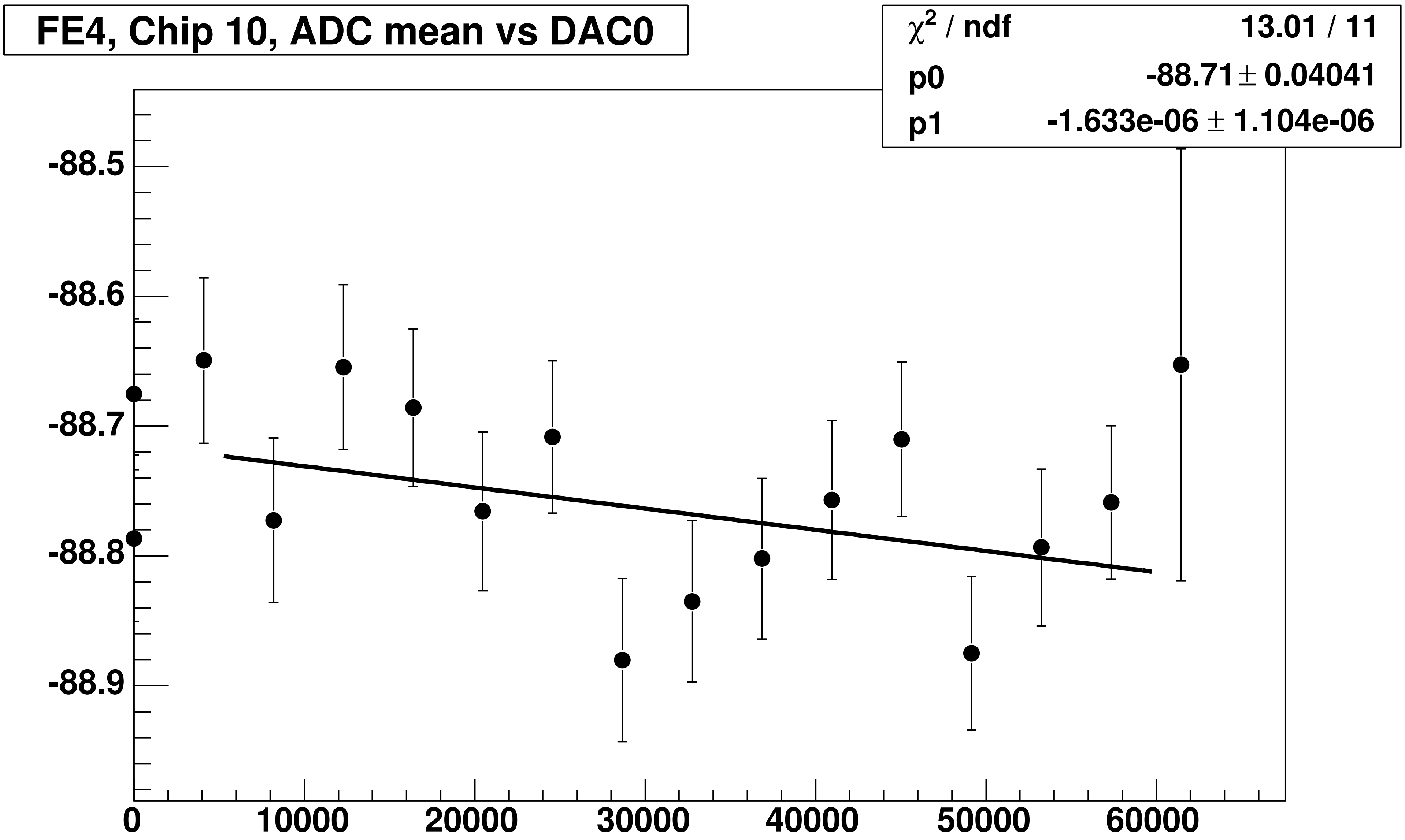

FE4, Chip 9, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE4, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1082 / 11
p0 -82.27 ± 0.04337
p1 0.4524 ± 1.391e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

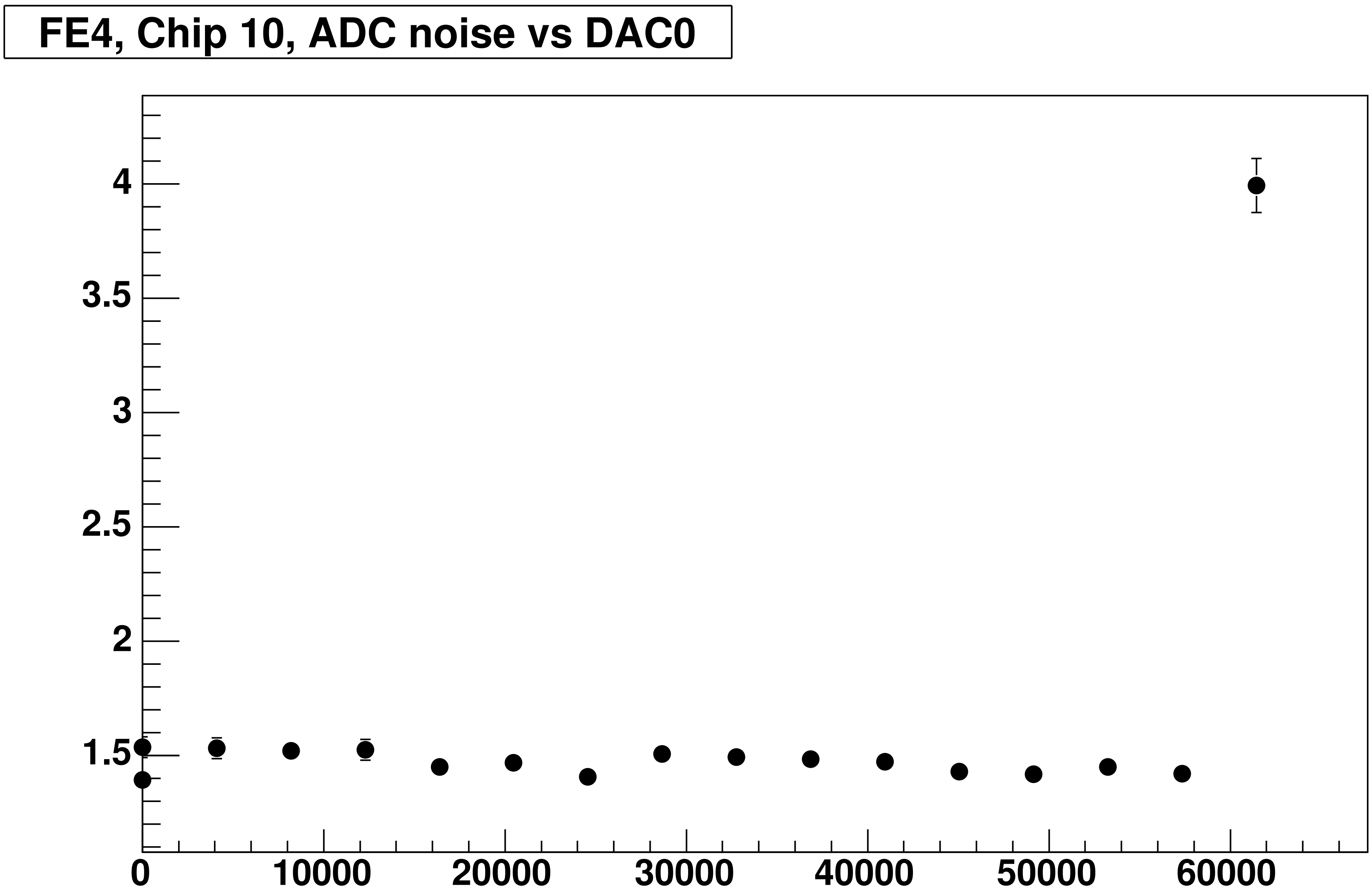

FE4, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



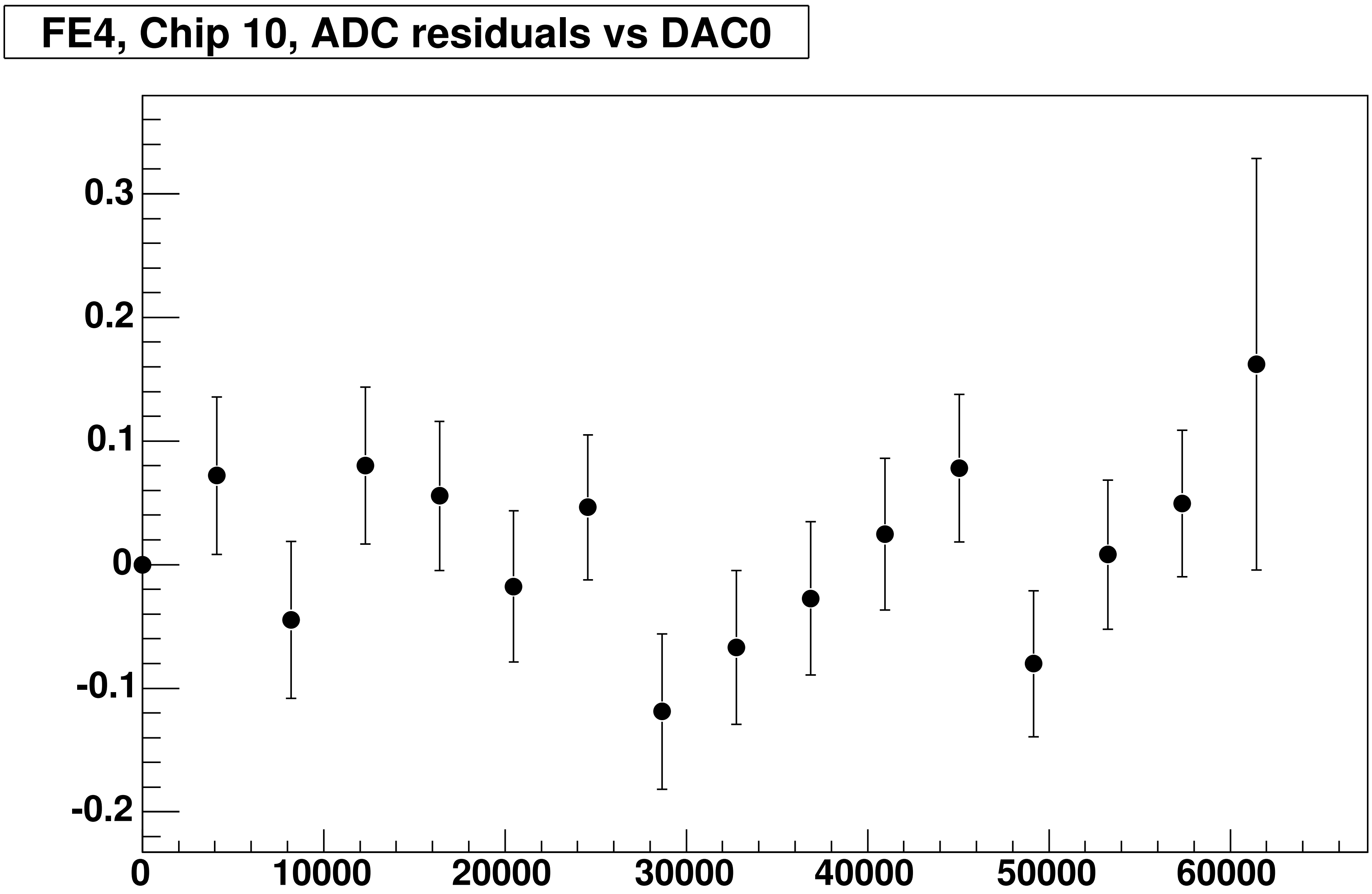
FE4, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

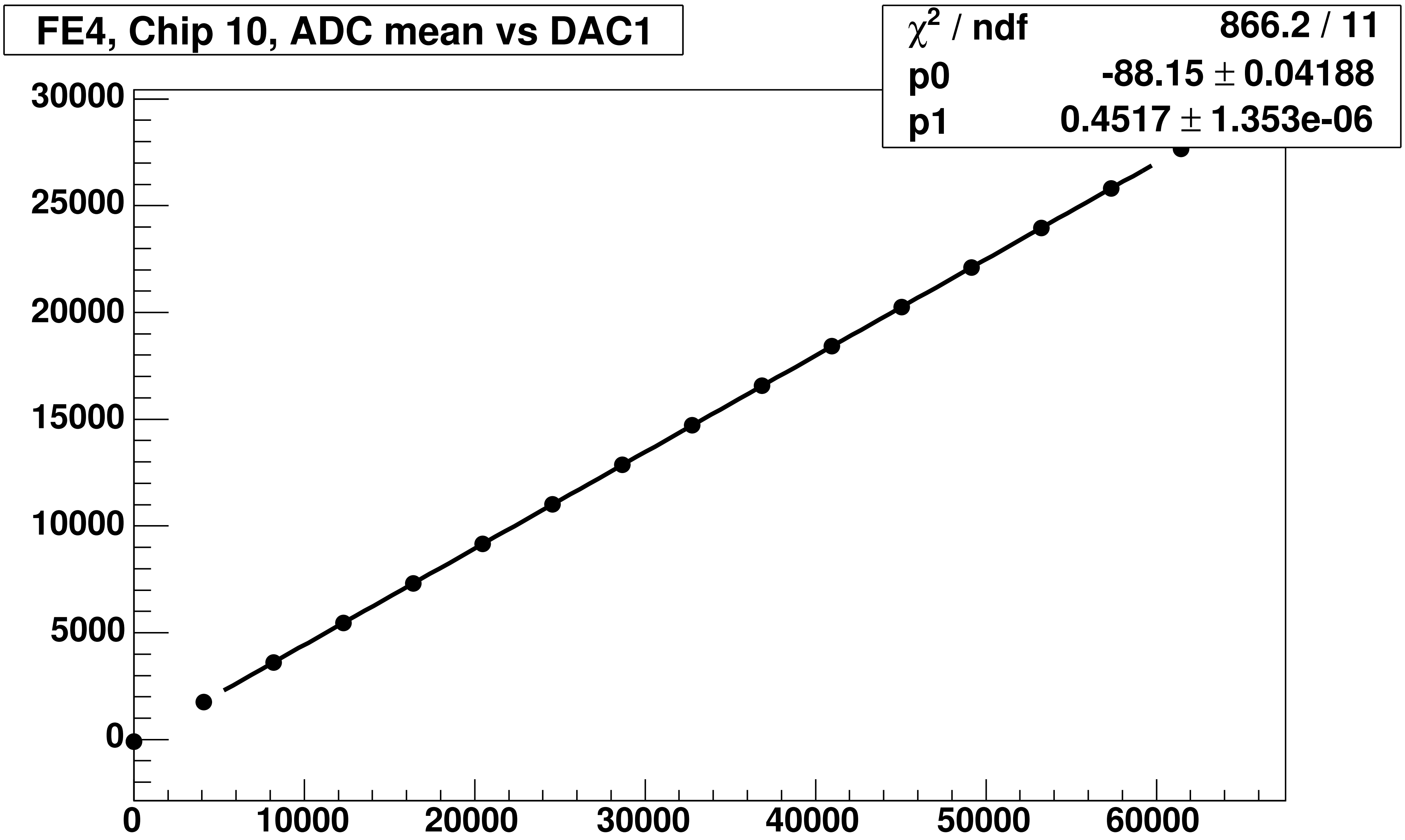


FE4, Chip 10, ADC mean vs DAC0
χ² / ndf 13.01 / 11
p0 -88.71 ± 0.04041
p1 -1.633e-06 ± 1.104e-06
-88.5
-88.6
-88.7
-88.8
-88.9
0
10000
20000
30000
40000
50000
60000

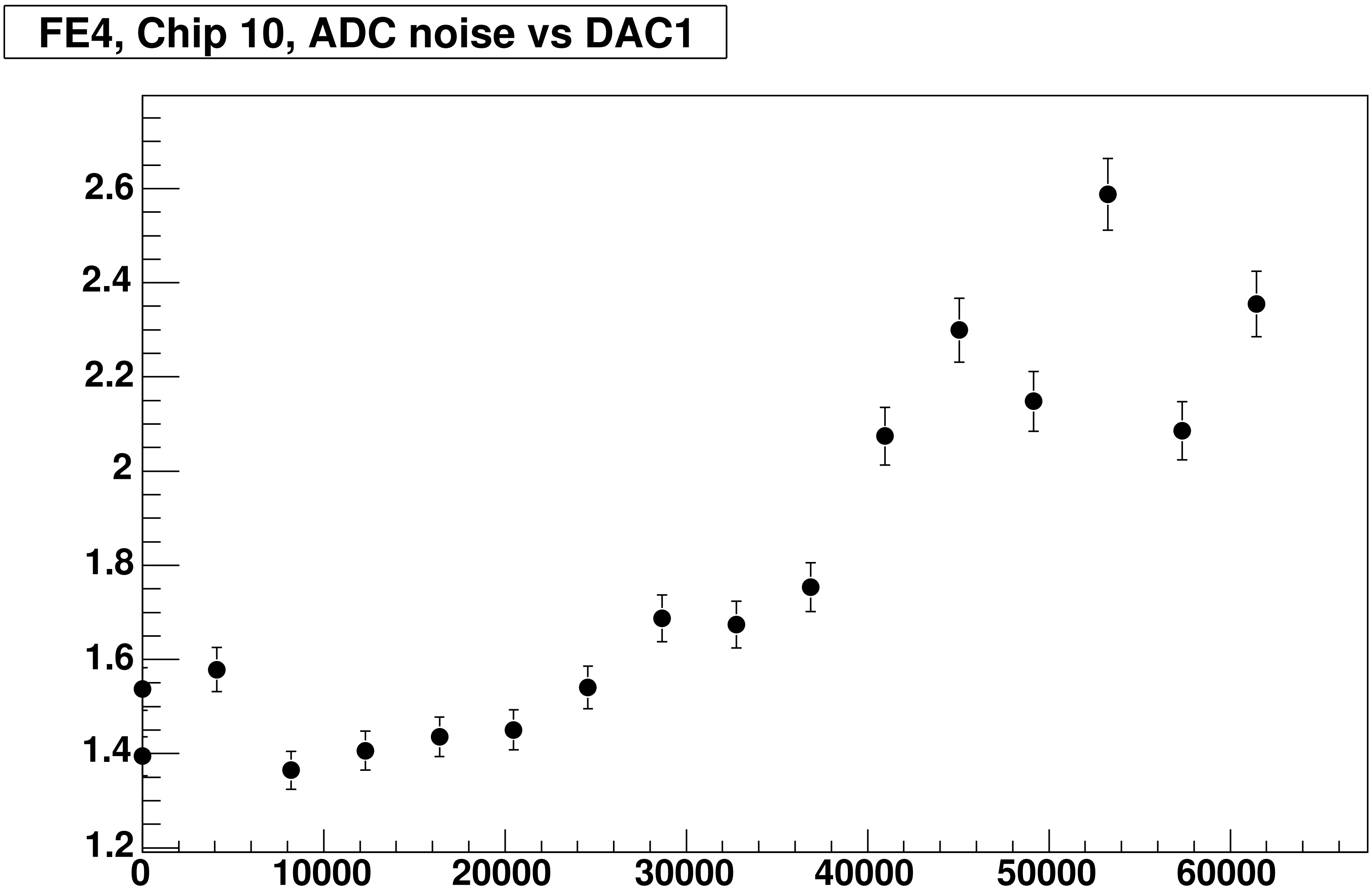


FE4, Chip 10, ADC noise vs DAC0
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

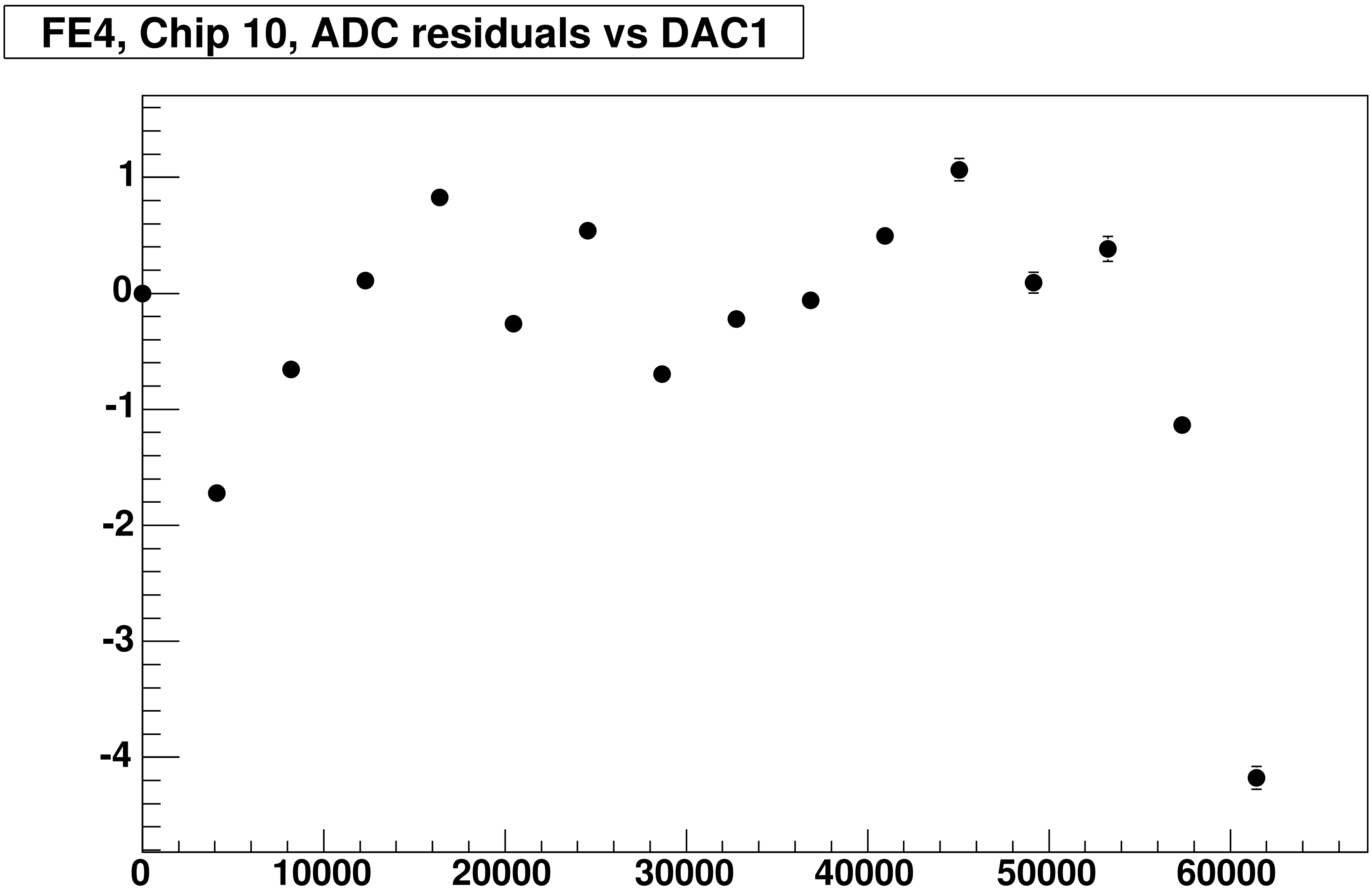

FE4, Chip 10, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

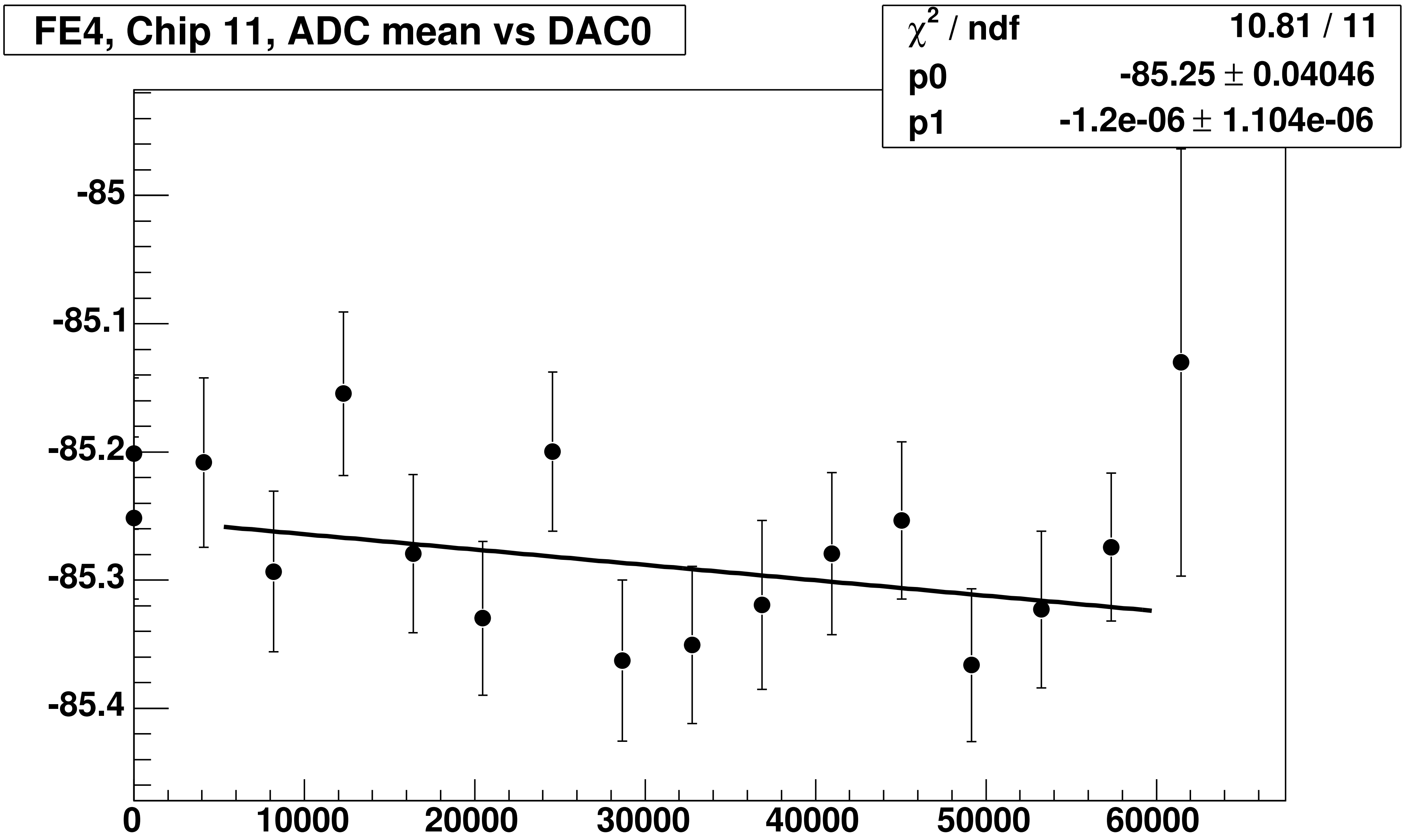


FE4, Chip 10, ADC mean vs DAC1
χ² / ndf 866.2 / 11
p0 -88.15 ± 0.04188
p1 0.4517 ± 1.353e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

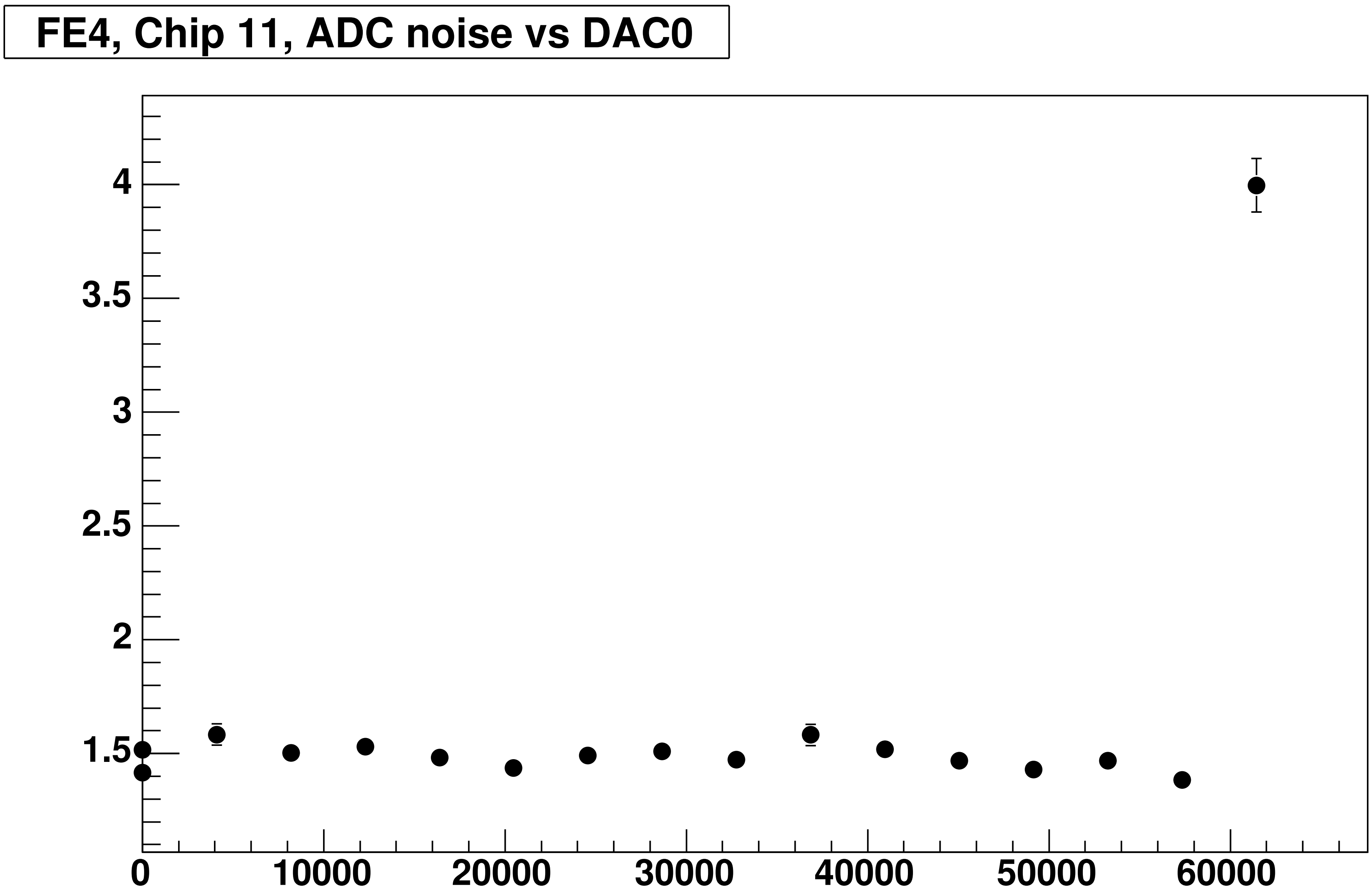


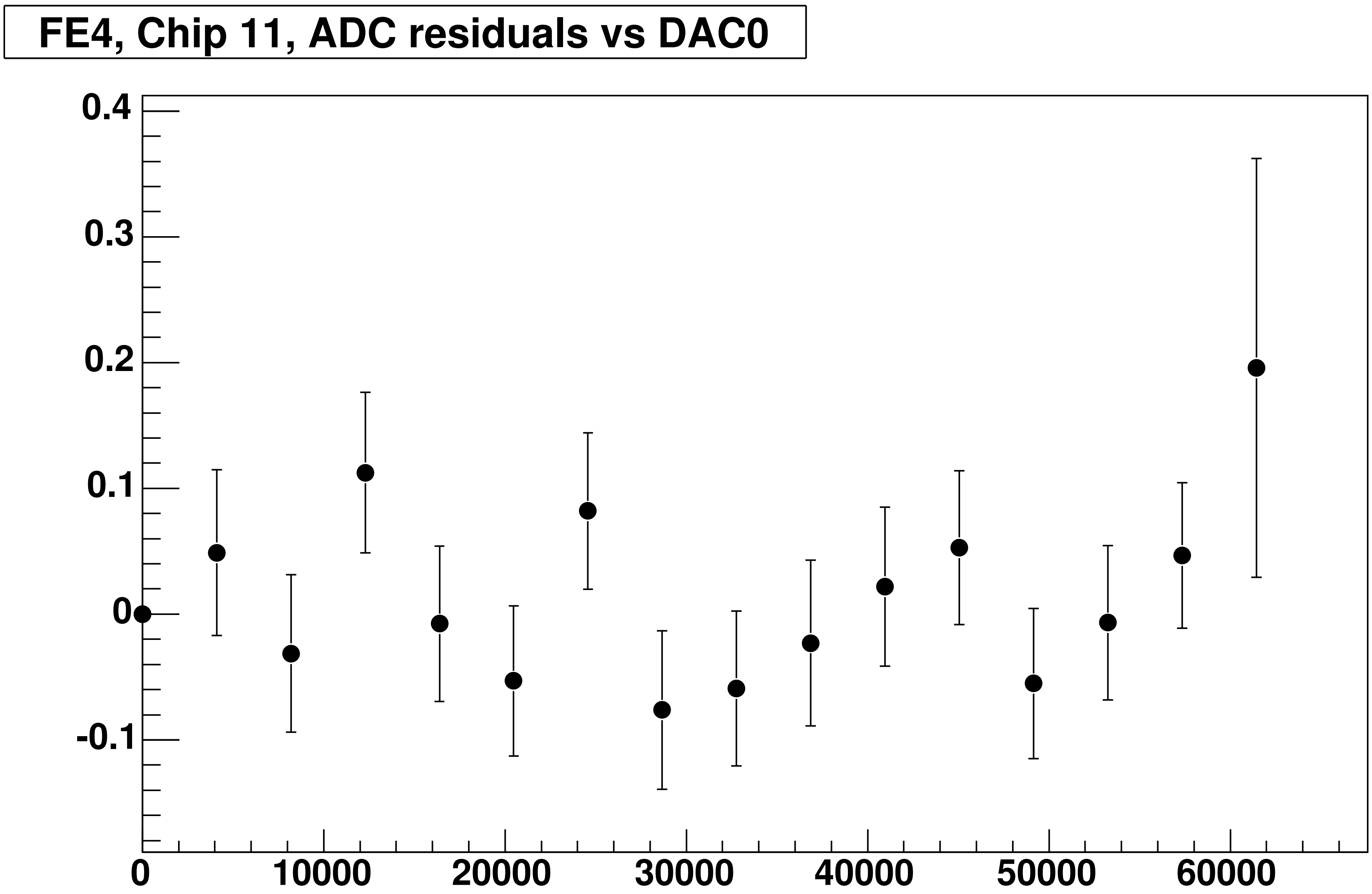
FE4, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

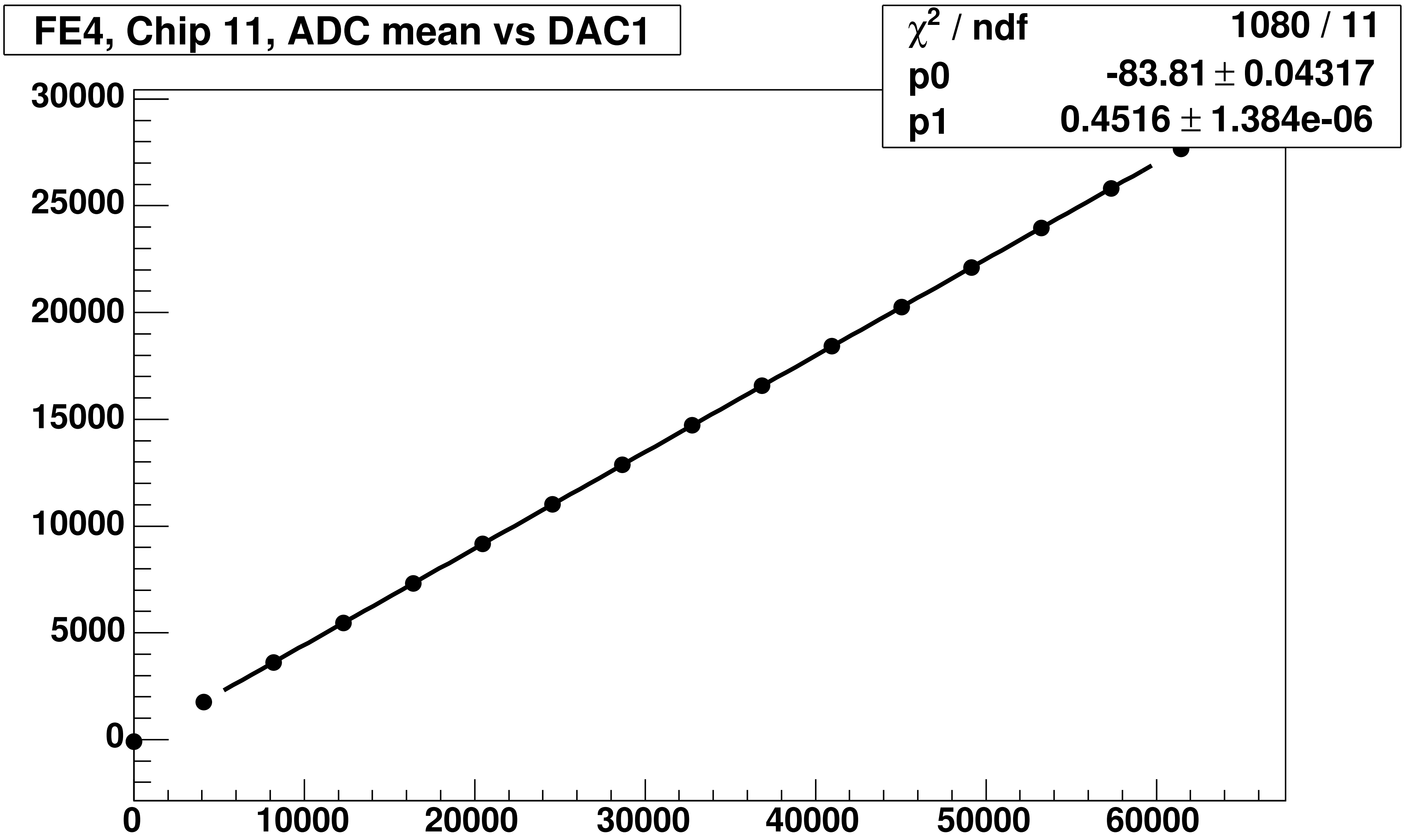


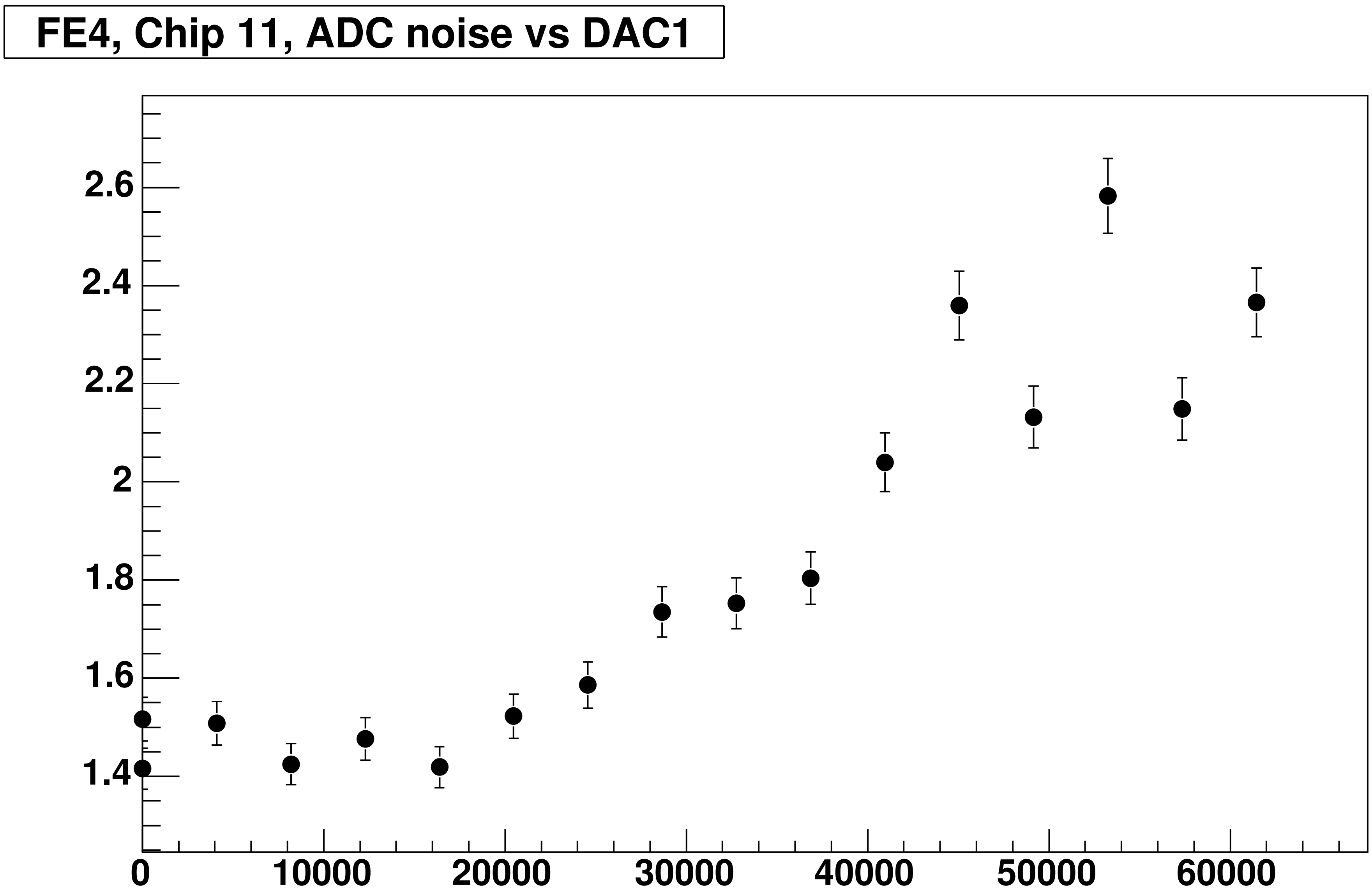
FE4, Chip 11, ADC mean vs DAC0
χ^2 / ndf 10.81 / 11
p0 -85.25 ± 0.04046
p1 -1.2e-06 ± 1.104e-06
-85
-85.1
-85.2
-85.3
-85.4
0
10000
20000
30000
40000
50000
60000

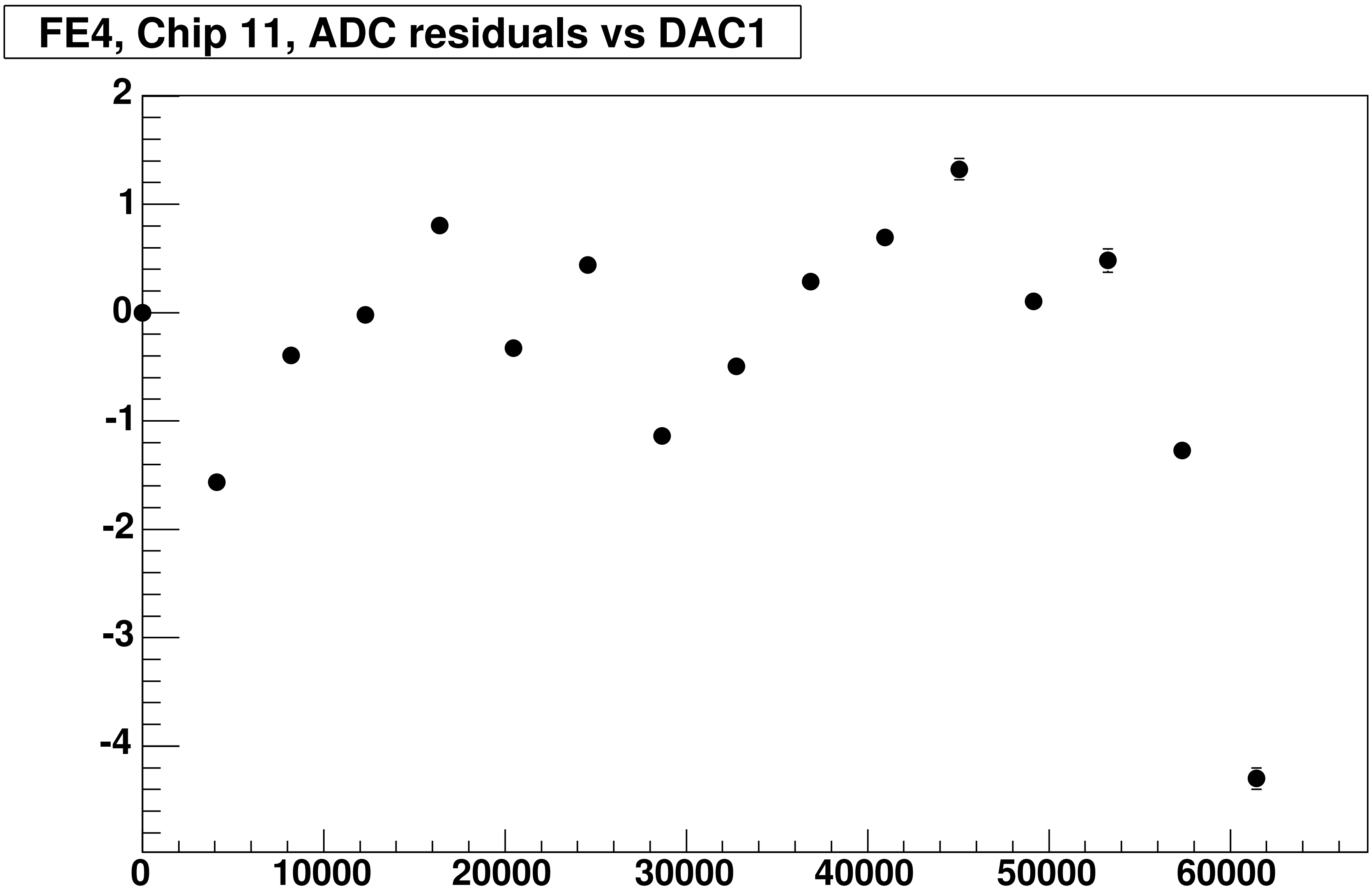

FE4, Chip 11, ADC noise vs DAC0
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

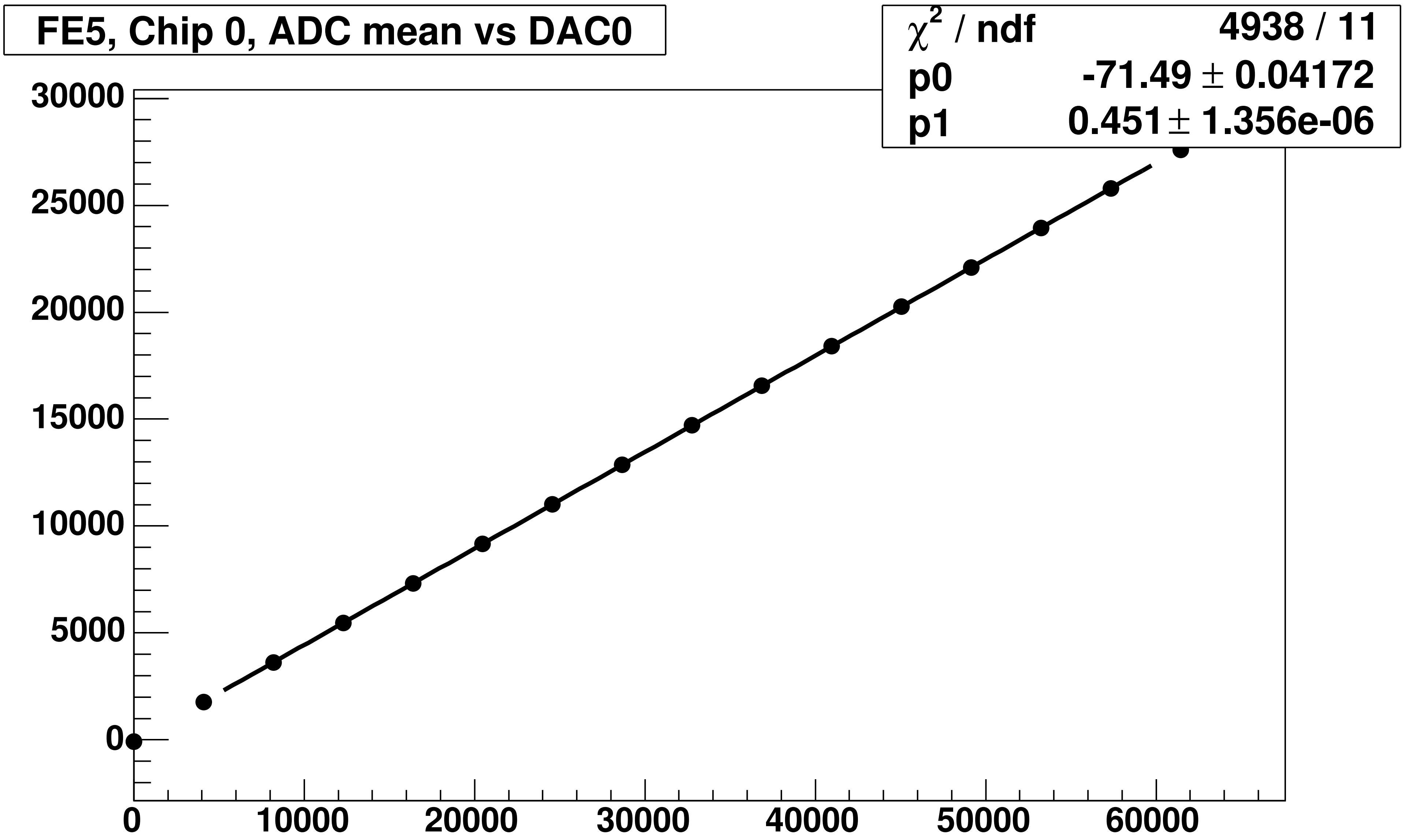


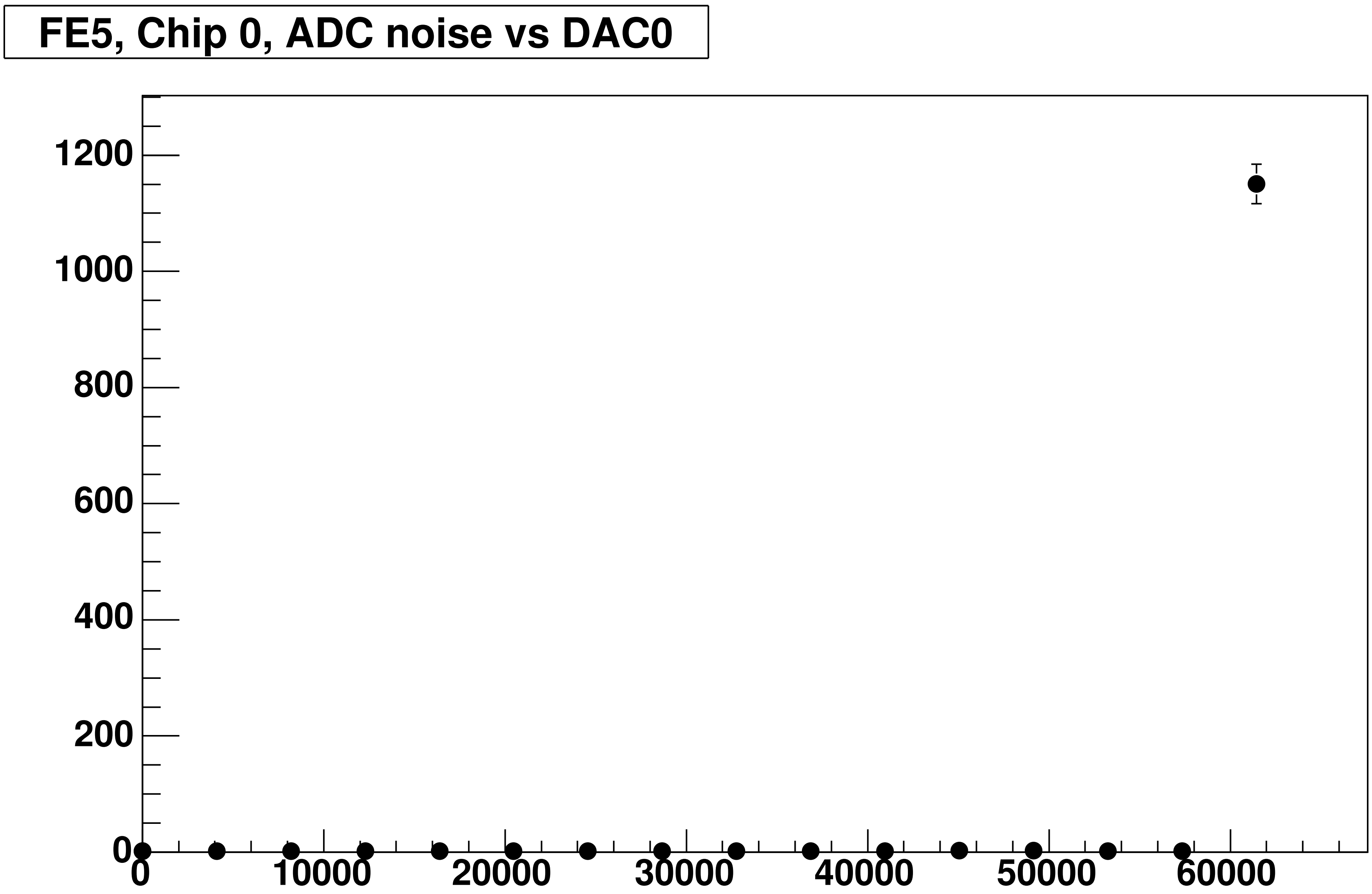
FE4, Chip 11, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
0
-0.1
0
10000
20000
30000
40000
50000
60000

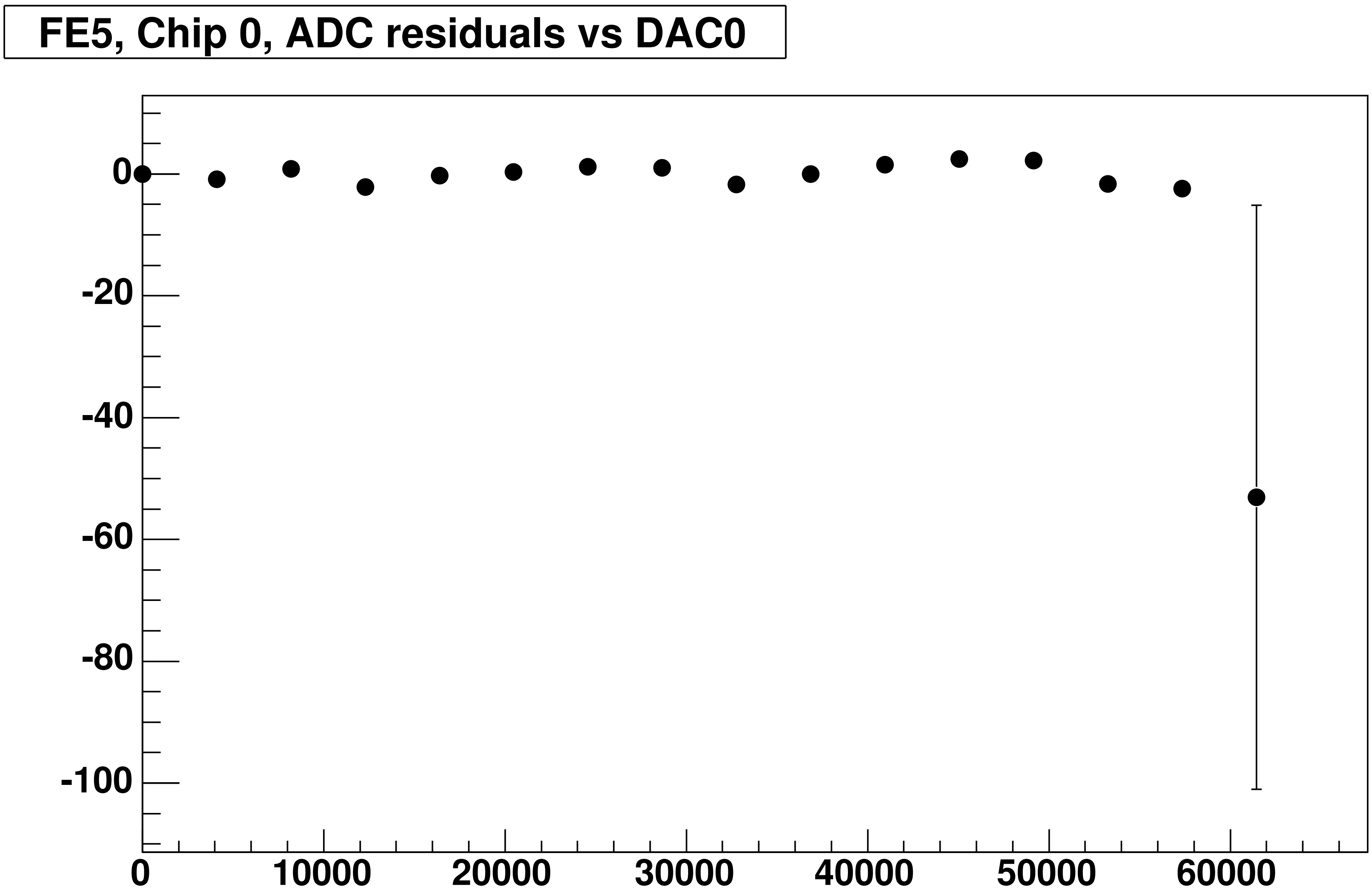

FE4, Chip 11, ADC mean vs DAC1
χ2 / ndf 1080 / 11
p0 -83.81 ± 0.04317
p1 0.4516 ± 1.384e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

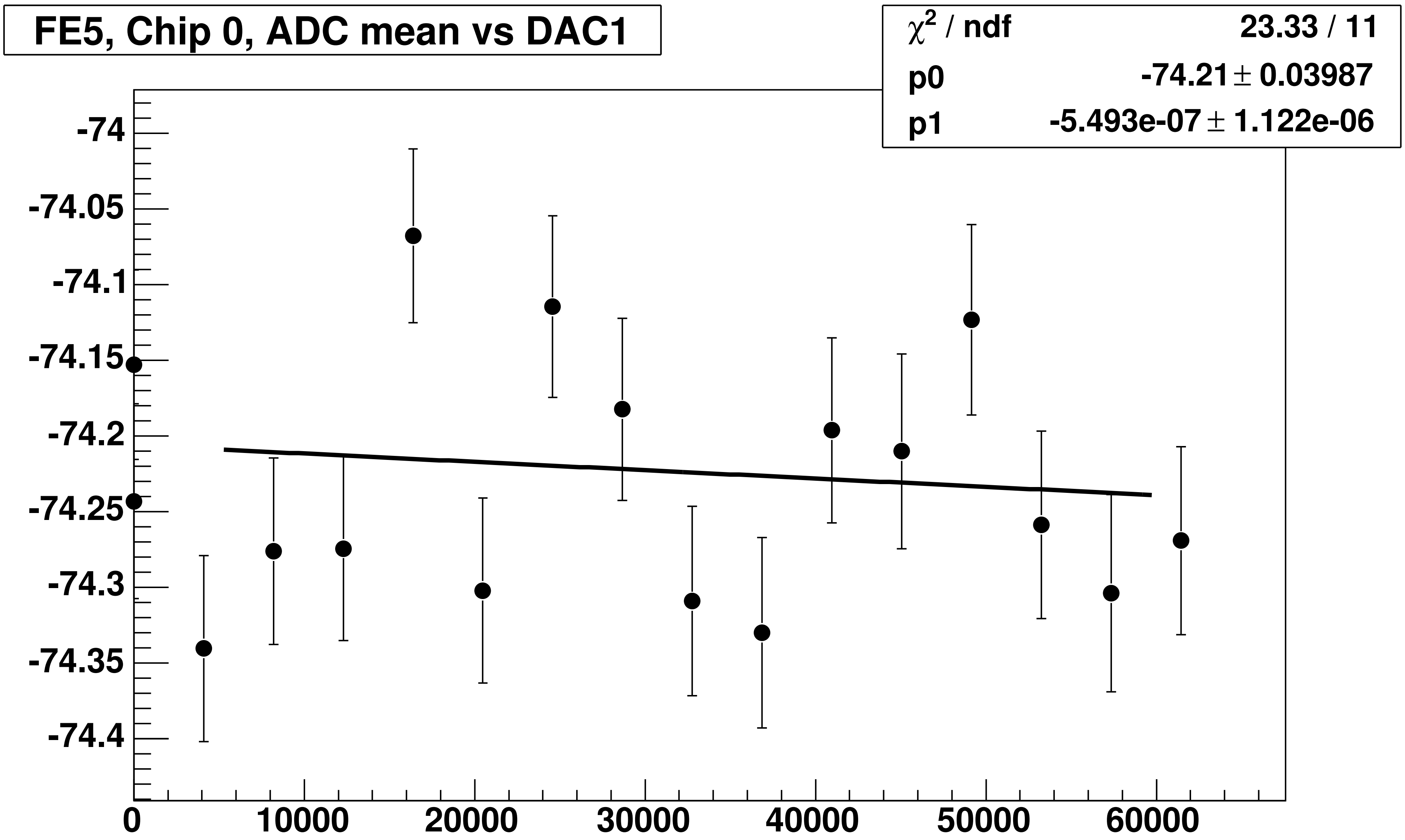

FE4, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

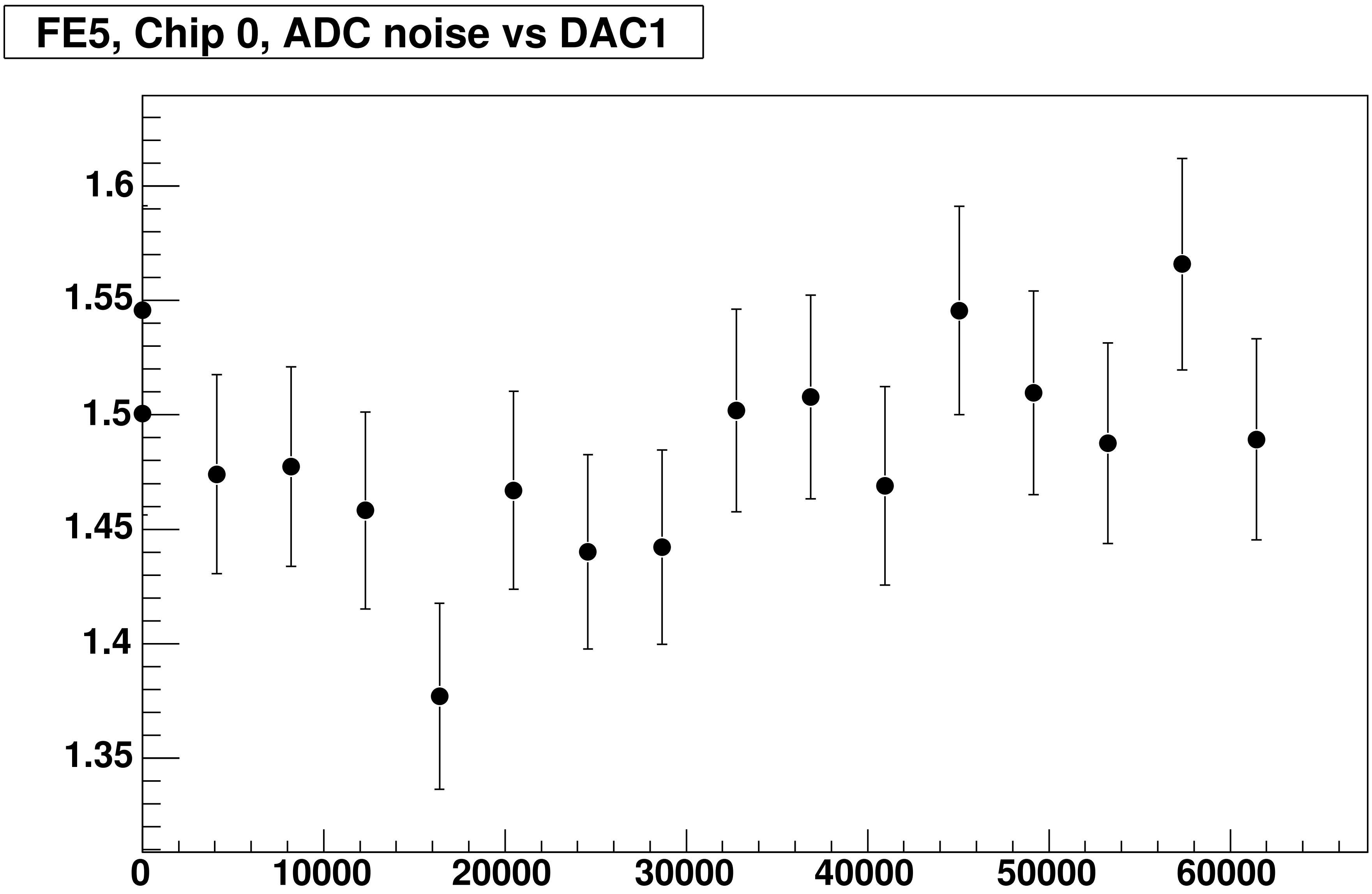

FE5, Chip 0, ADC mean vs DAC0
χ² / ndf 4938 / 11
p0 -71.49 ± 0.04172
p1 0.451 ± 1.356e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

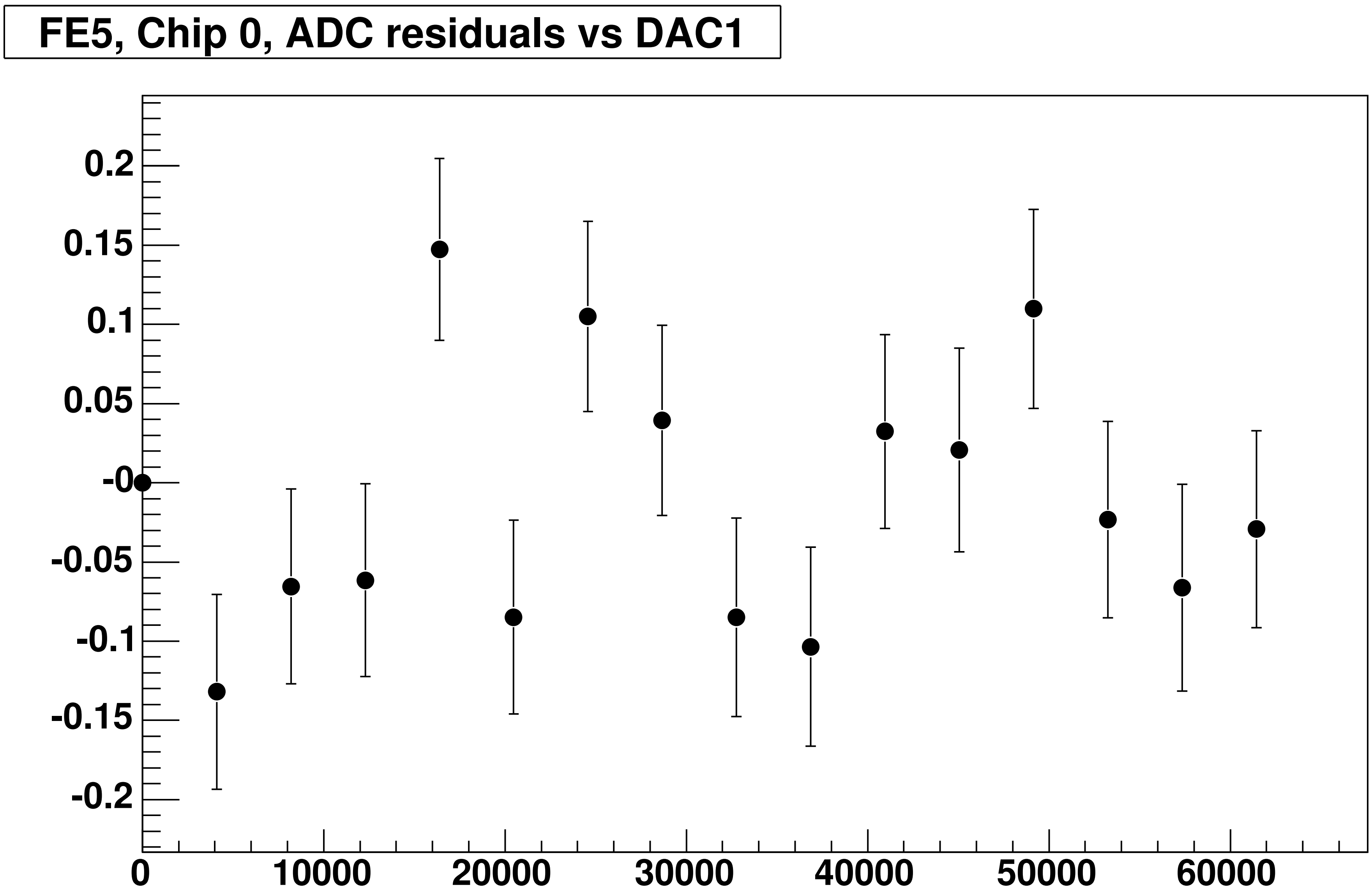

FE5, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

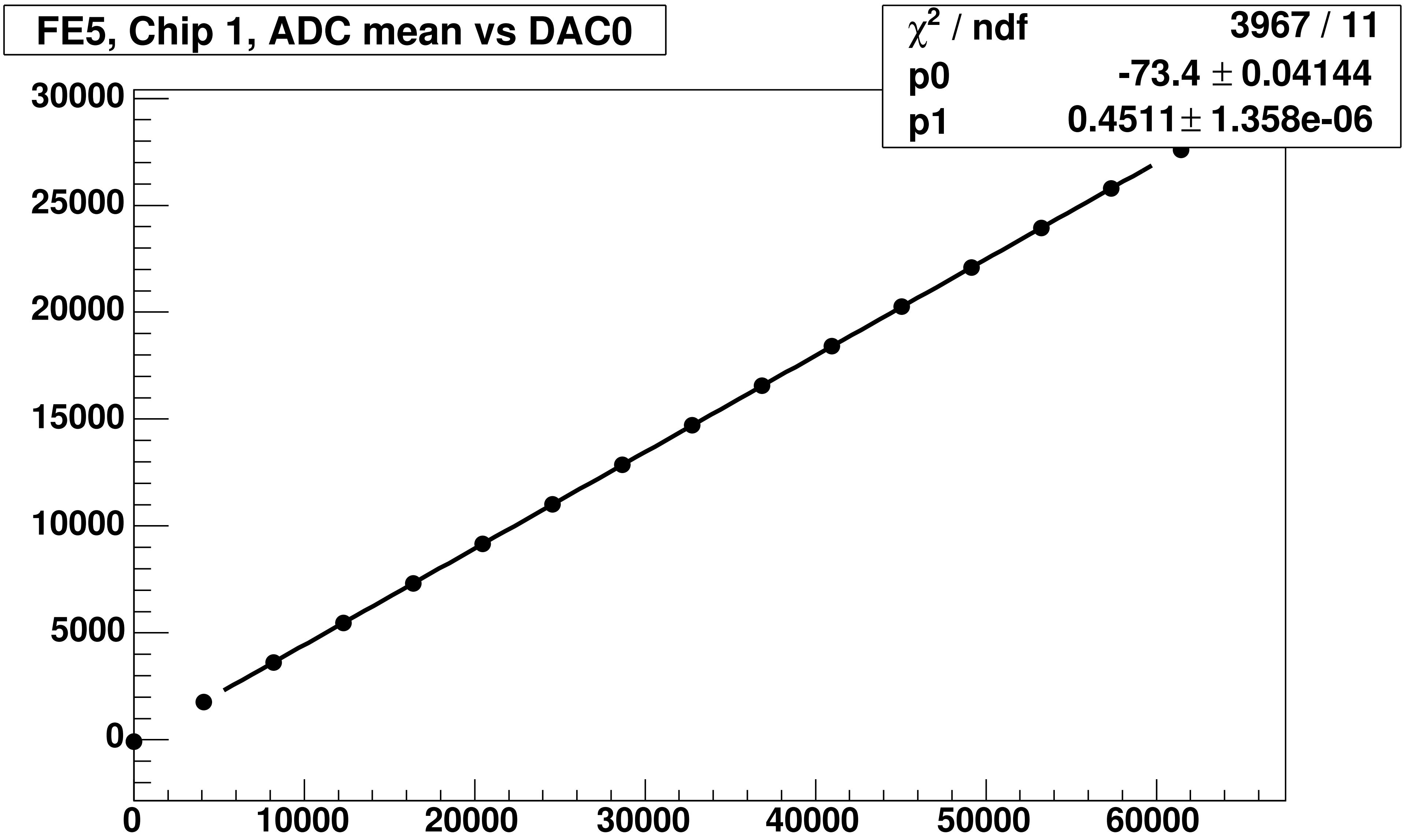


FE5, Chip 0, ADC mean vs DAC1
χ^2 / ndf 23.33 / 11
p0 -74.21 ± 0.03987
p1 -5.493e-07 ± 1.122e-06
-74
-74.05
-74.1
-74.15
-74.2
-74.25
-74.3
-74.35
-74.4
0
10000
20000
30000
40000
50000
60000

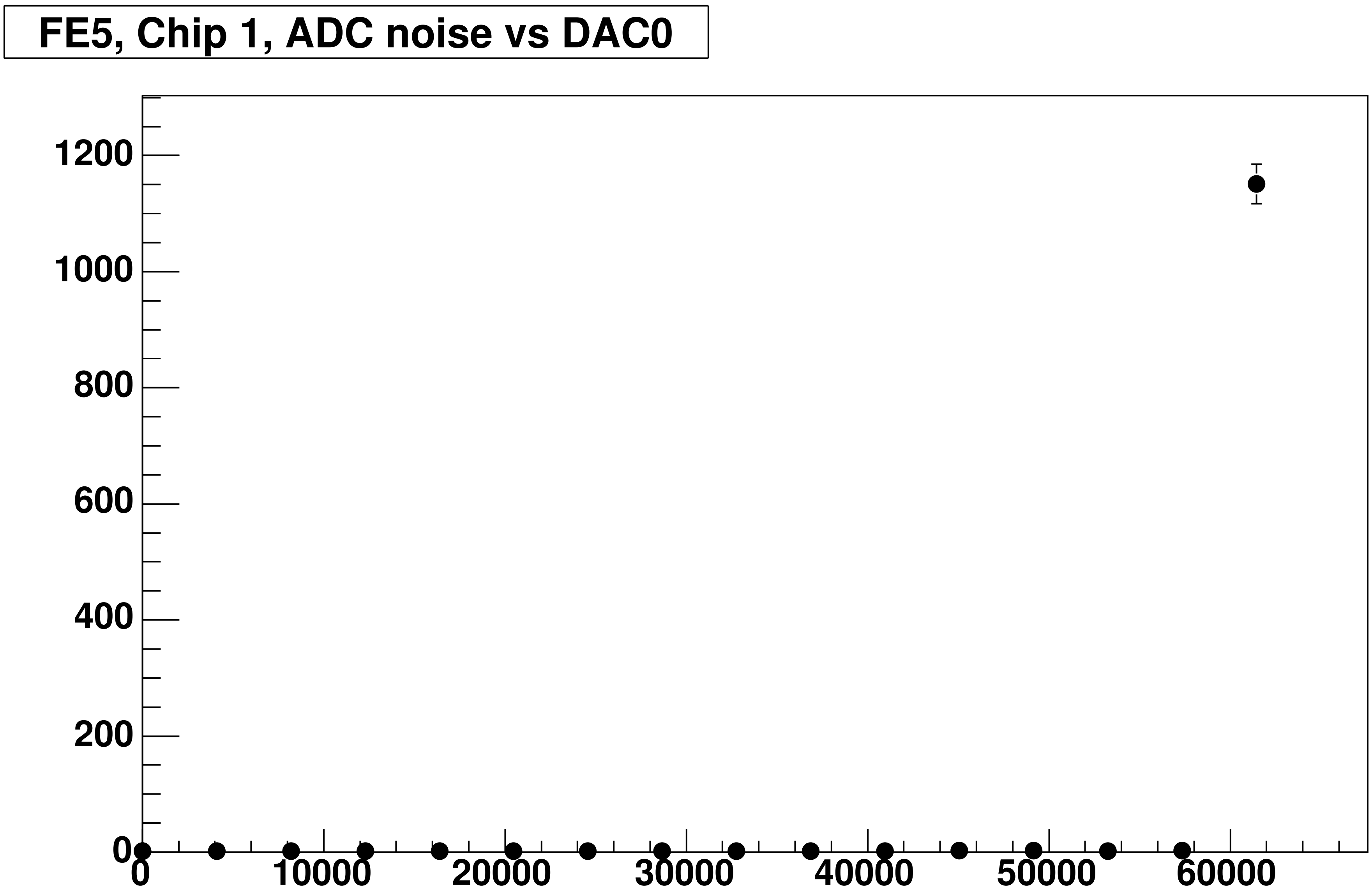


FE5, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

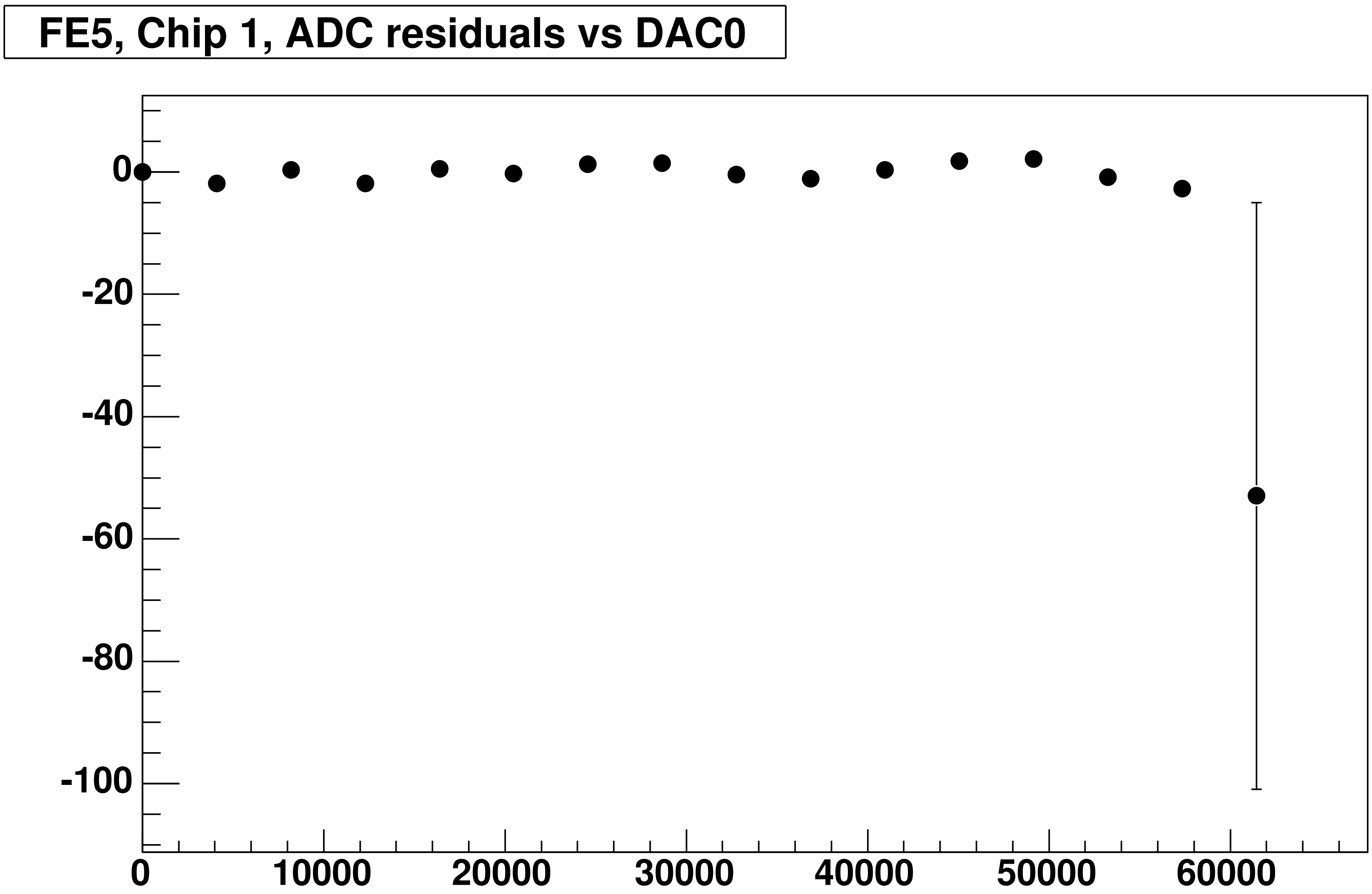

FE5, Chip 0, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

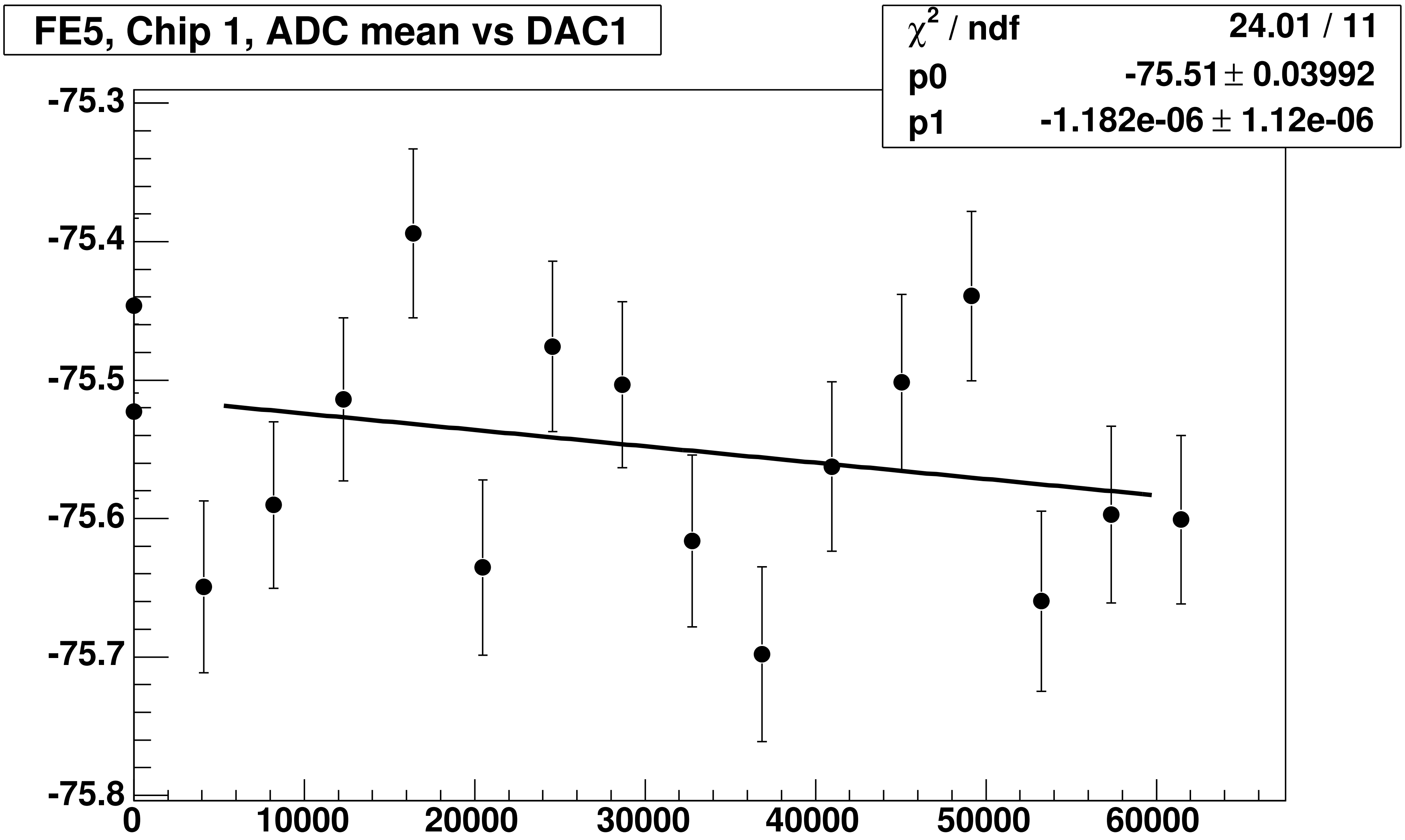


FE5, Chip 1, ADC mean vs DAC0
χ^2 / ndf 3967 / 11
p0 -73.4 ± 0.04144
p1 0.4511 ± 1.358e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

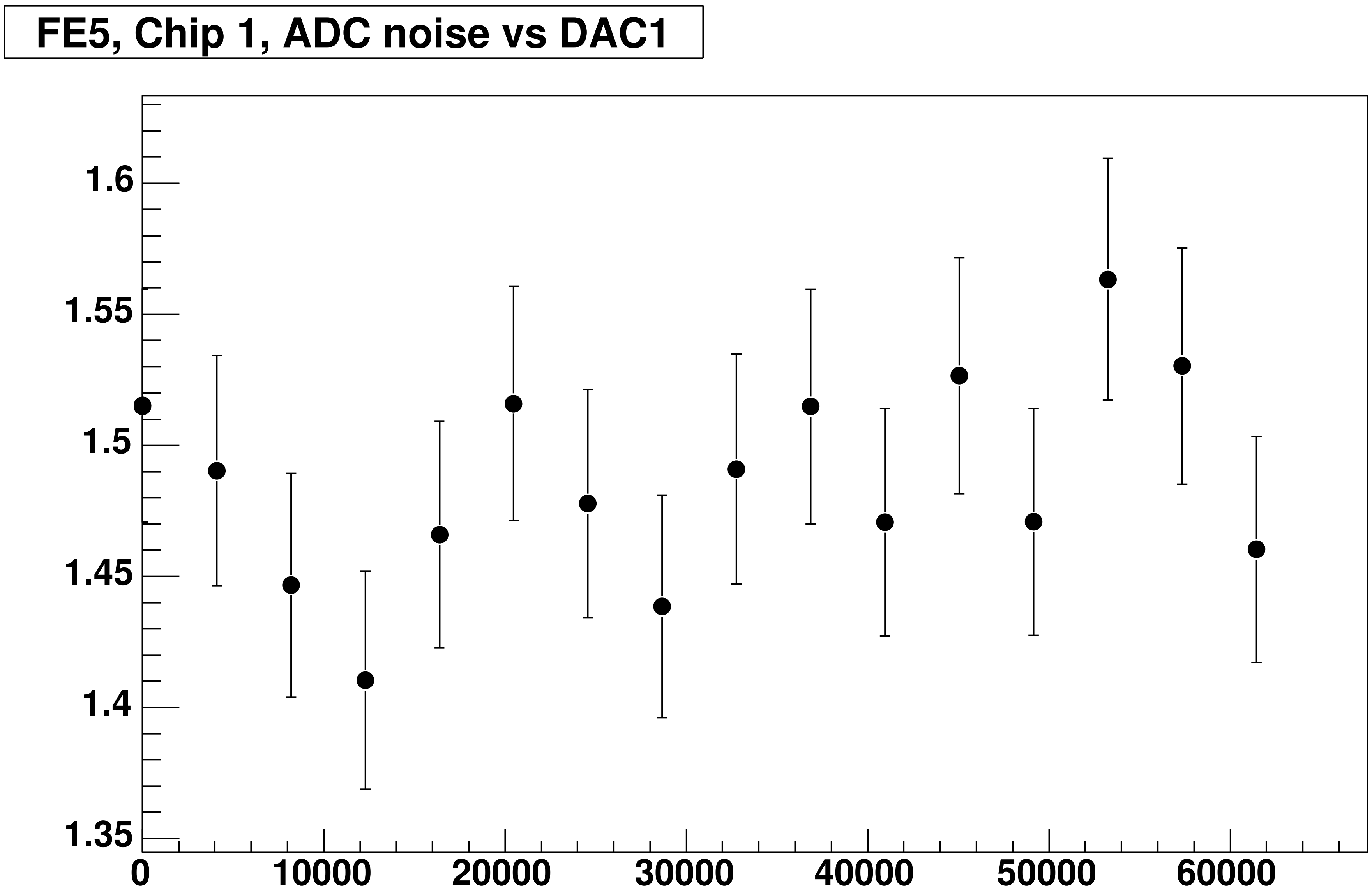


FE5, Chip 1, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

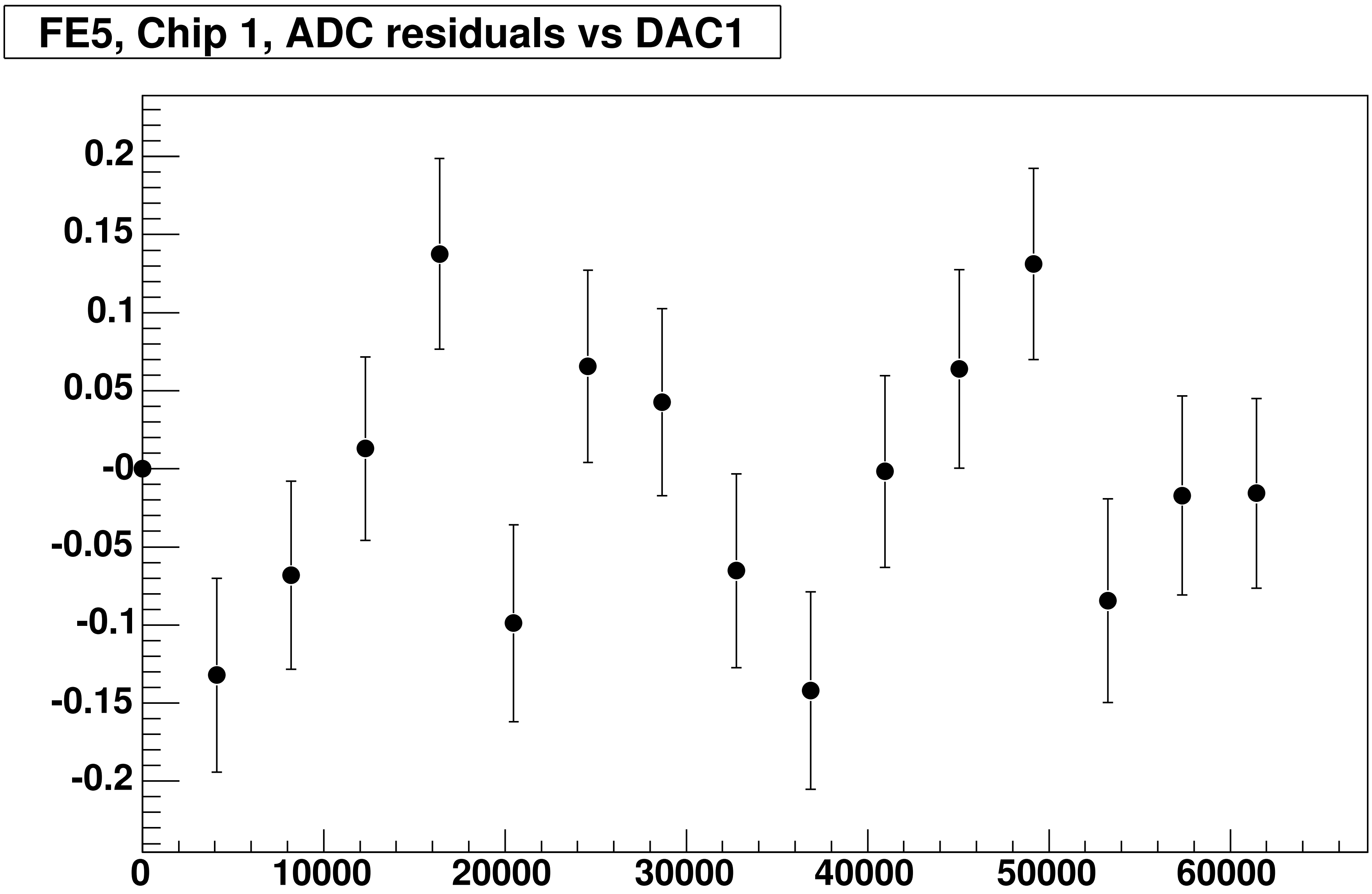

FE5, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

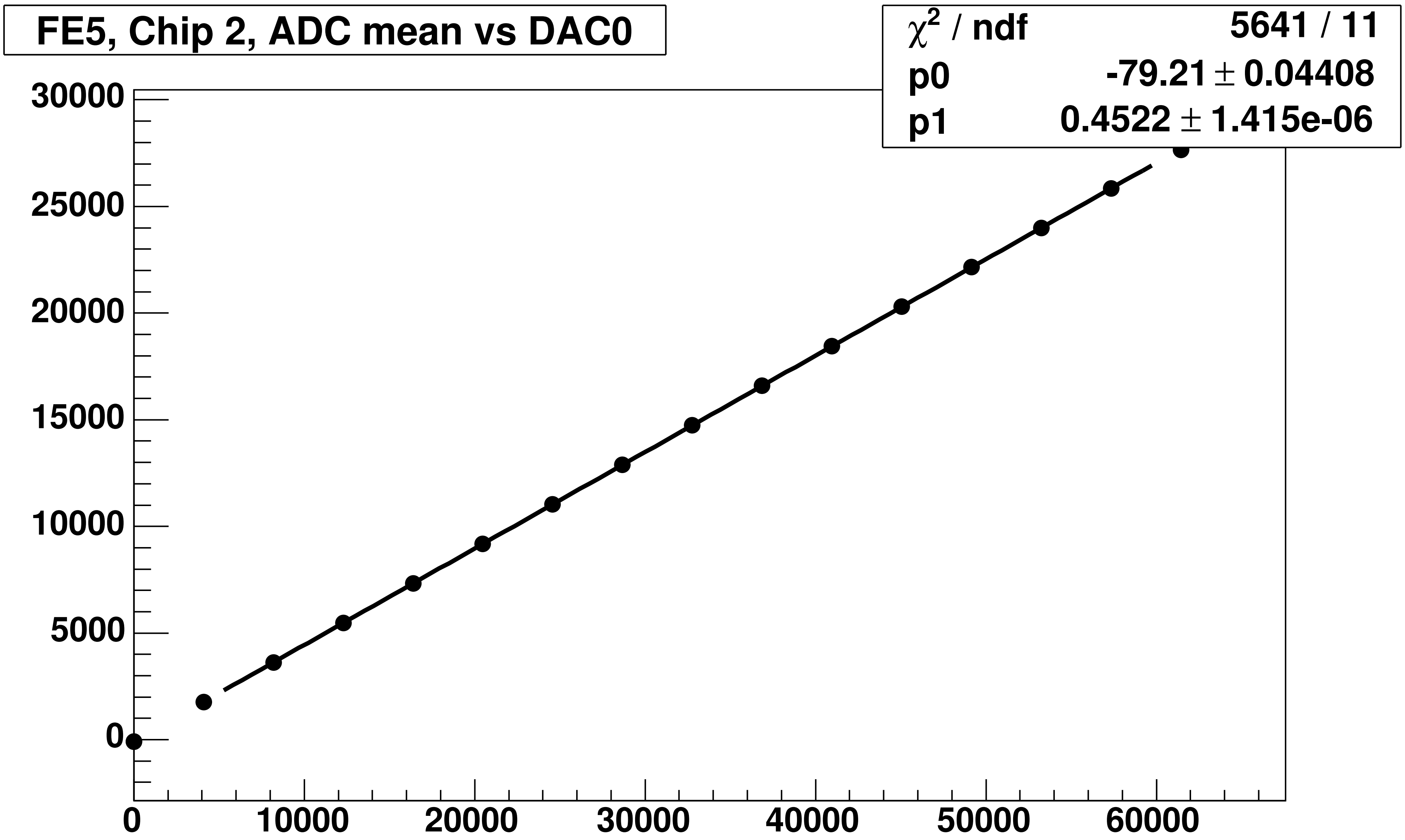


FE5, Chip 1, ADC mean vs DAC1
χ^2 / ndf 24.01 / 11
p0 -75.51 ± 0.03992
p1 -1.182e-06 ± 1.12e-06
-75.3
-75.4
-75.5
-75.6
-75.7
-75.8
0
10000
20000
30000
40000
50000
60000

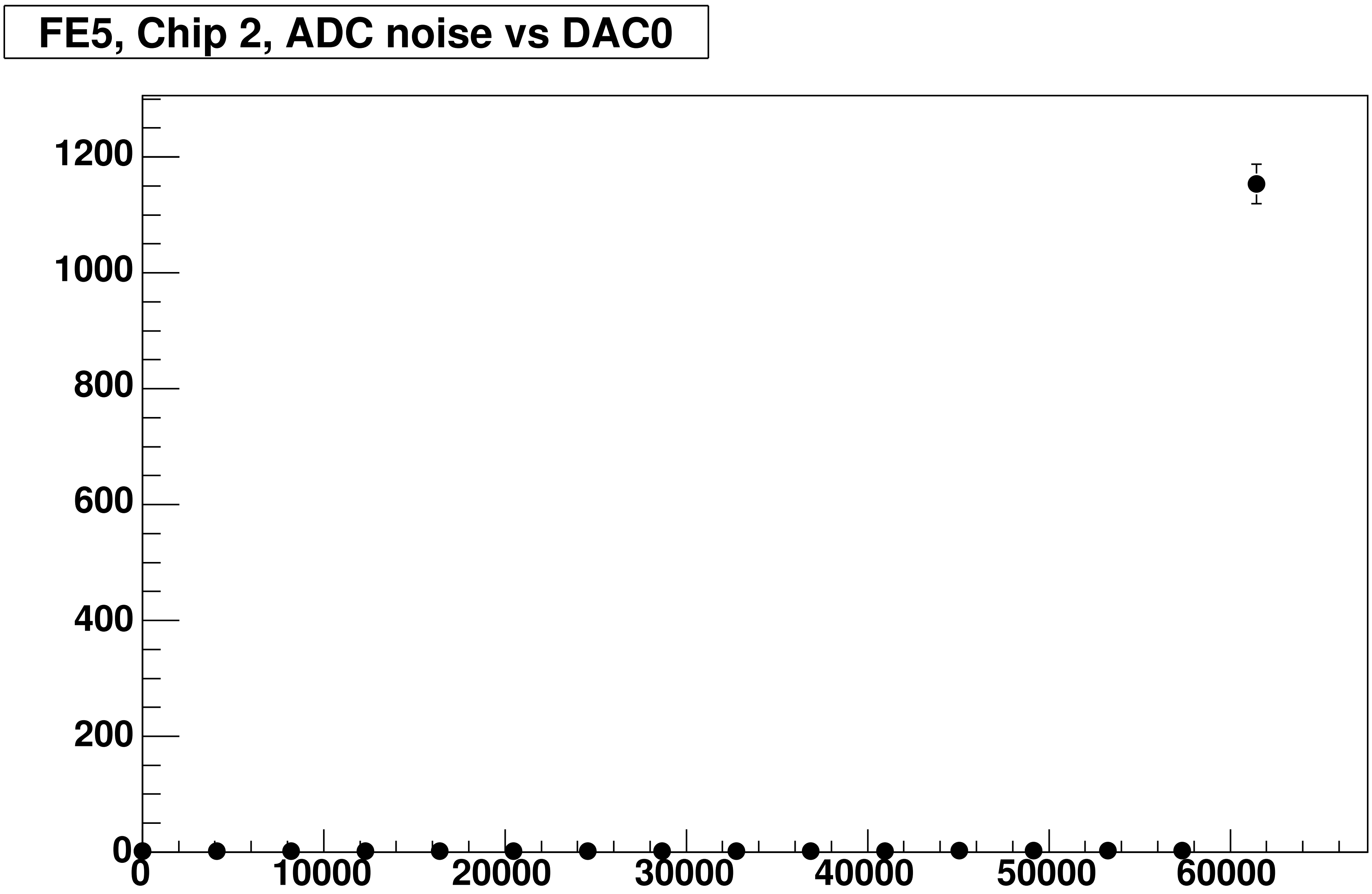


FE5, Chip 1, ADC noise vs DAC1
1.35
1.4
1.45
1.5
1.55
1.6
0
10000
20000
30000
40000
50000
60000

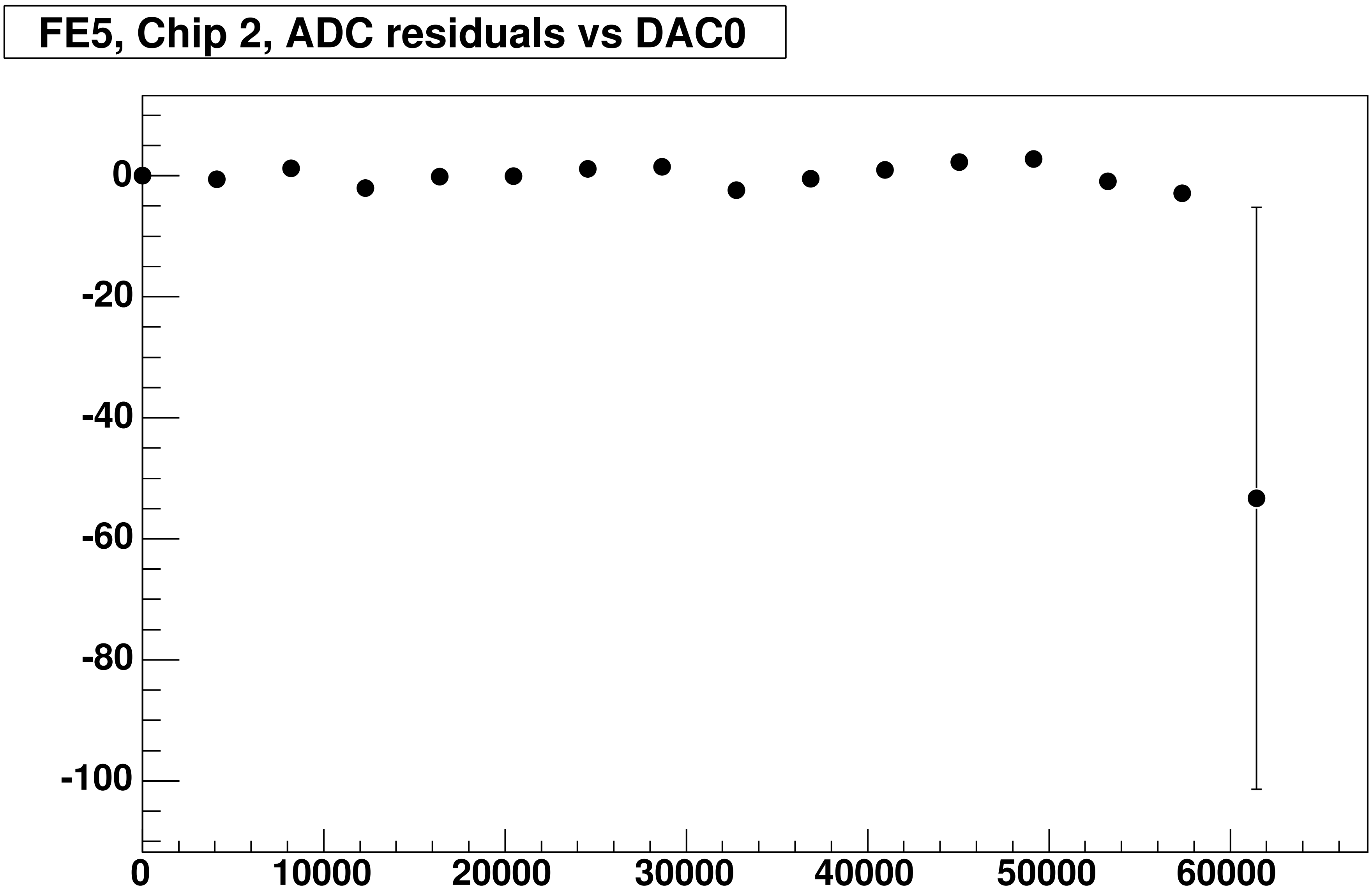

FE5, Chip 1, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



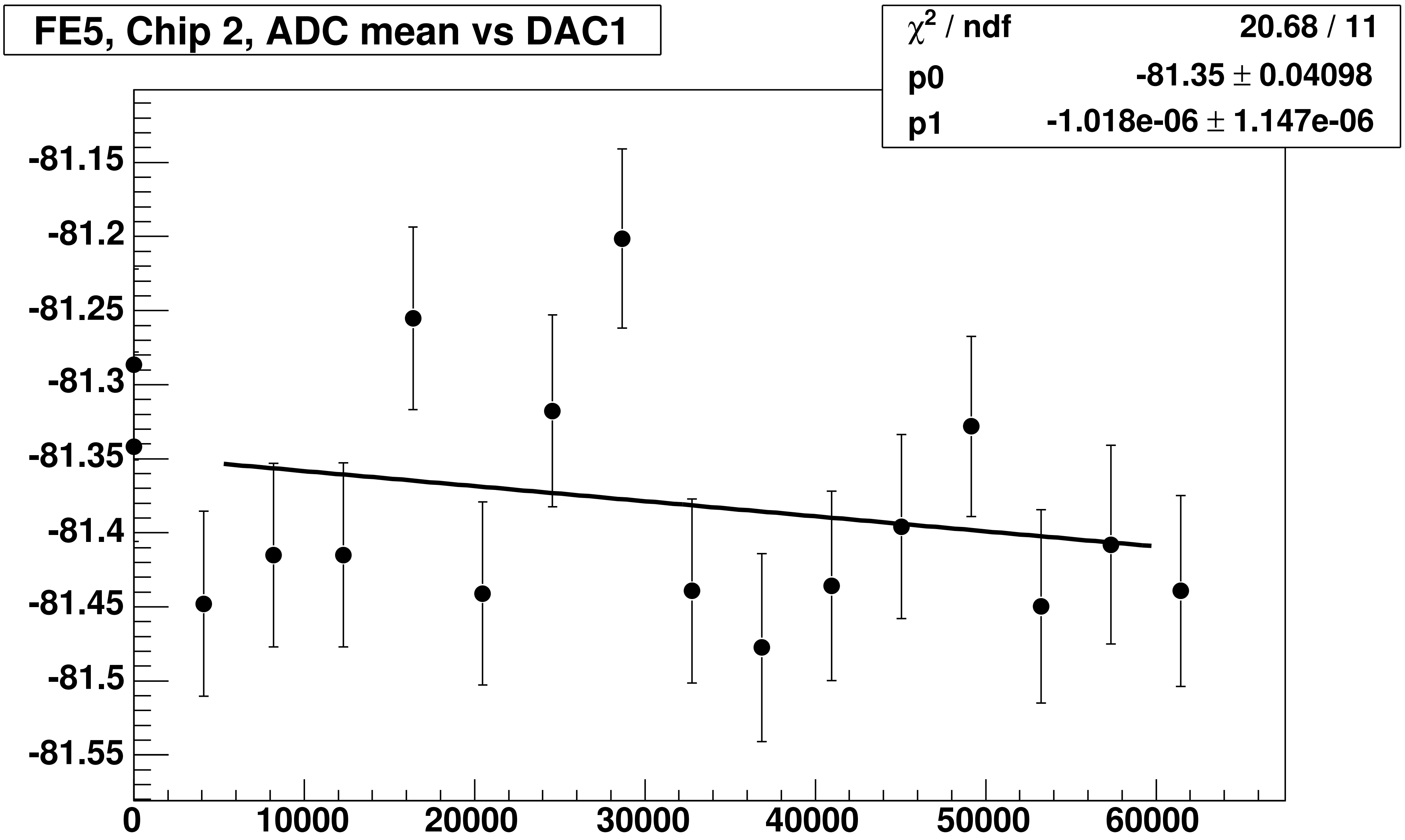
FE5, Chip 2, ADC mean vs DAC0
χ^2 / ndf 5641 / 11
p0 -79.21 ± 0.04408
p1 0.4522 ± 1.415e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



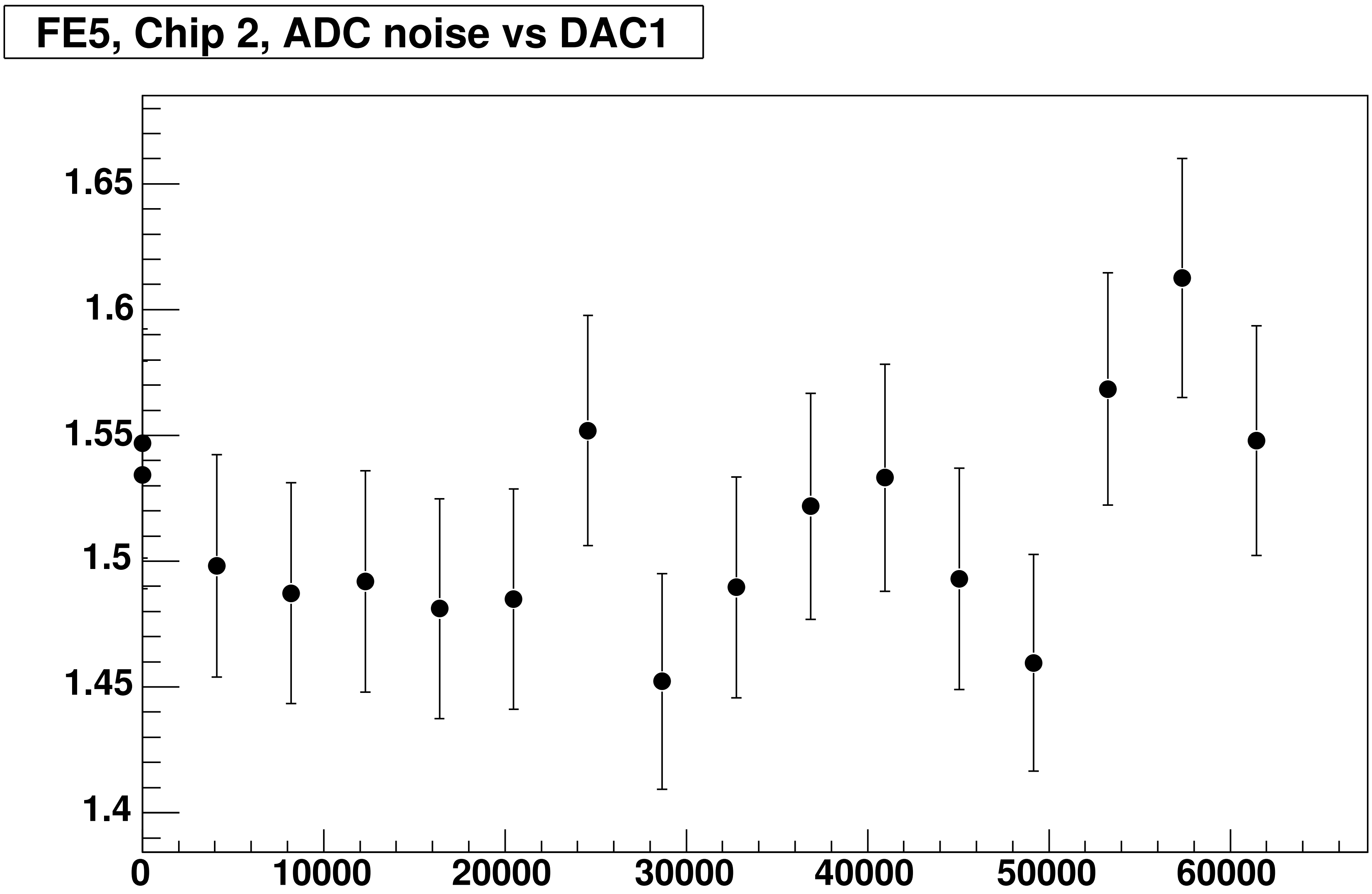
FE5, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



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

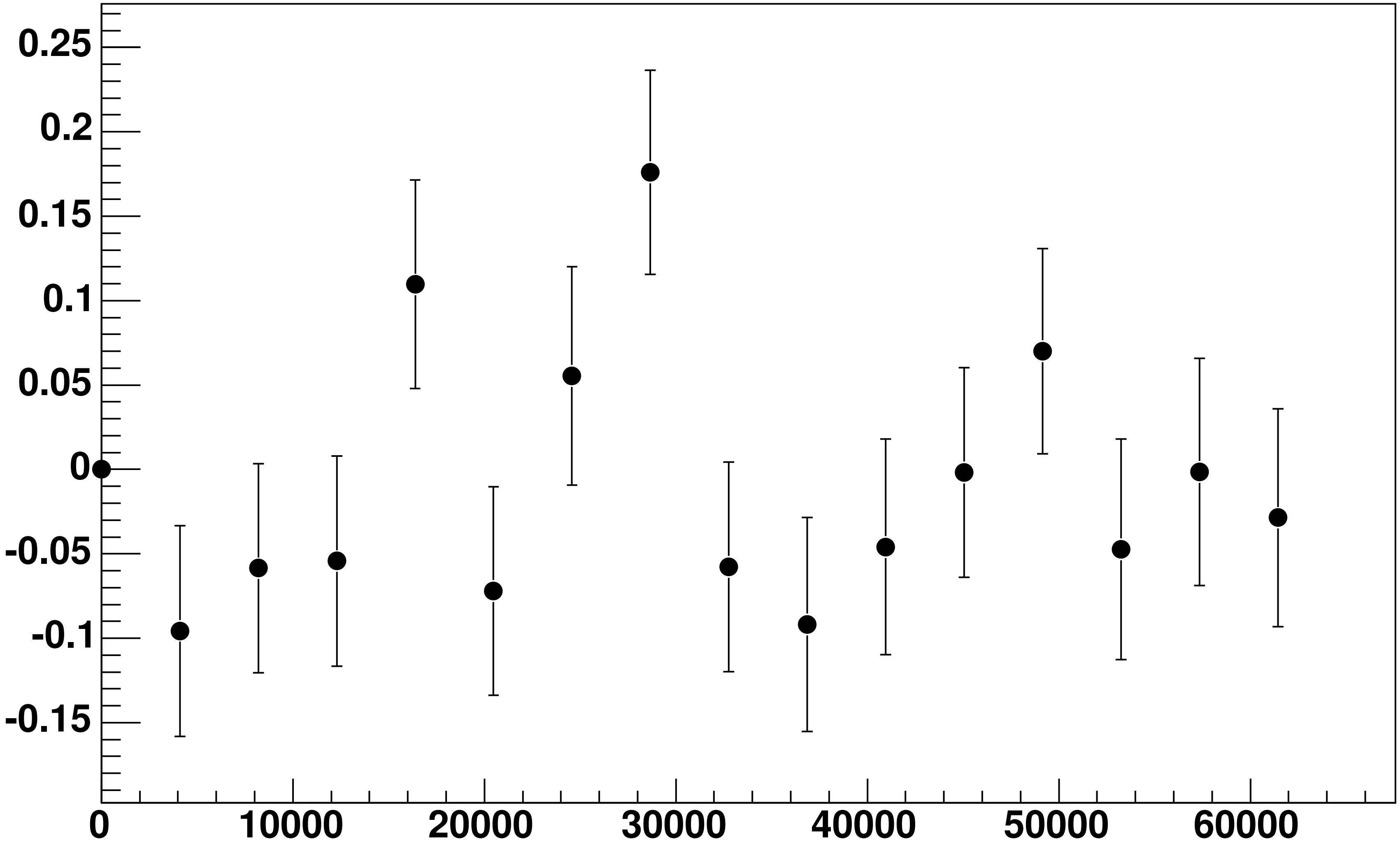


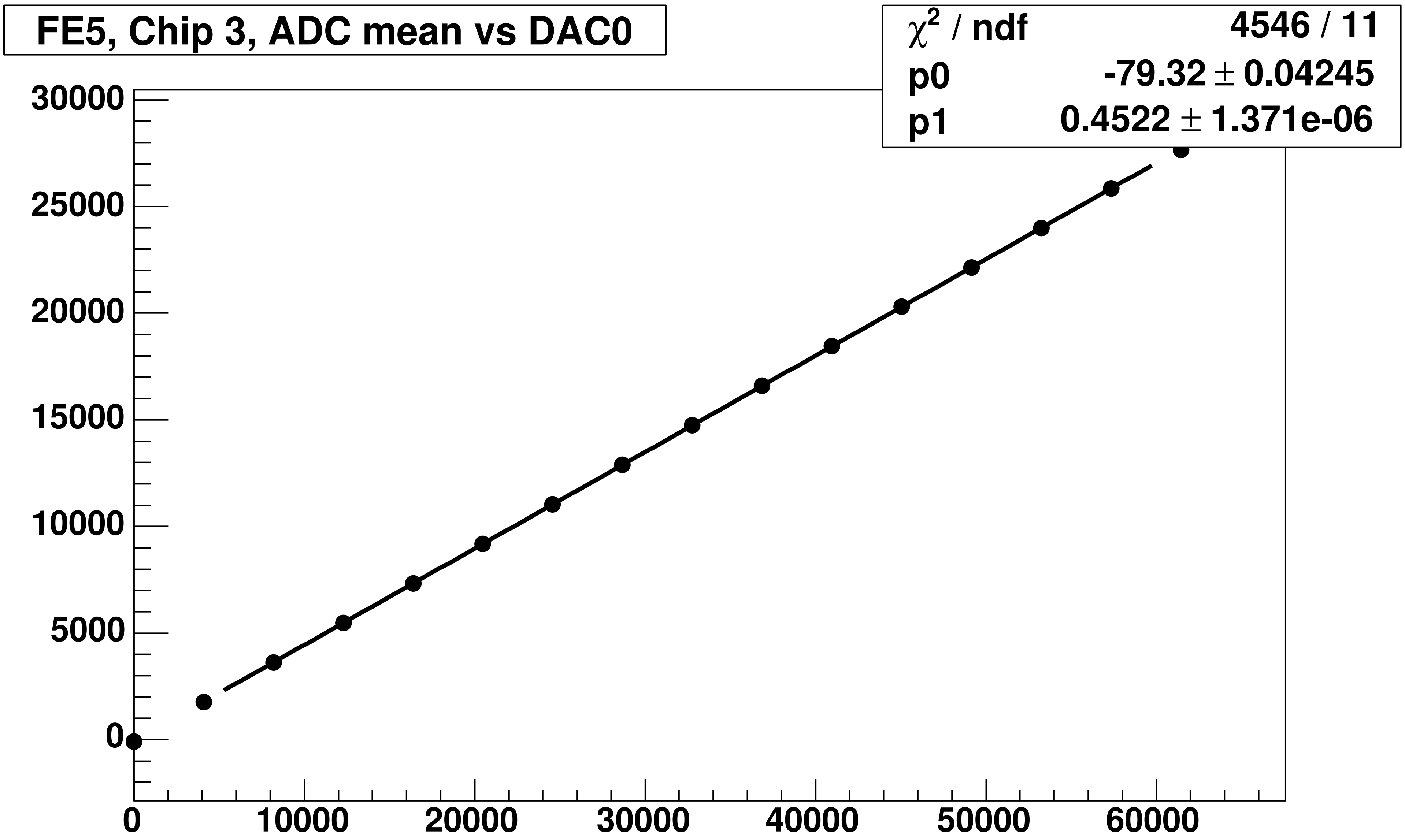
FE5, Chip 2, ADC mean vs DAC1
χ^2 / ndf 20.68 / 11
p0 -81.35 ± 0.04098
p1 -1.018e-06 ± 1.147e-06
-81.15
-81.2
-81.25
-81.3
-81.35
-81.4
-81.45
-81.5
-81.55
0
10000
20000
30000
40000
50000
60000



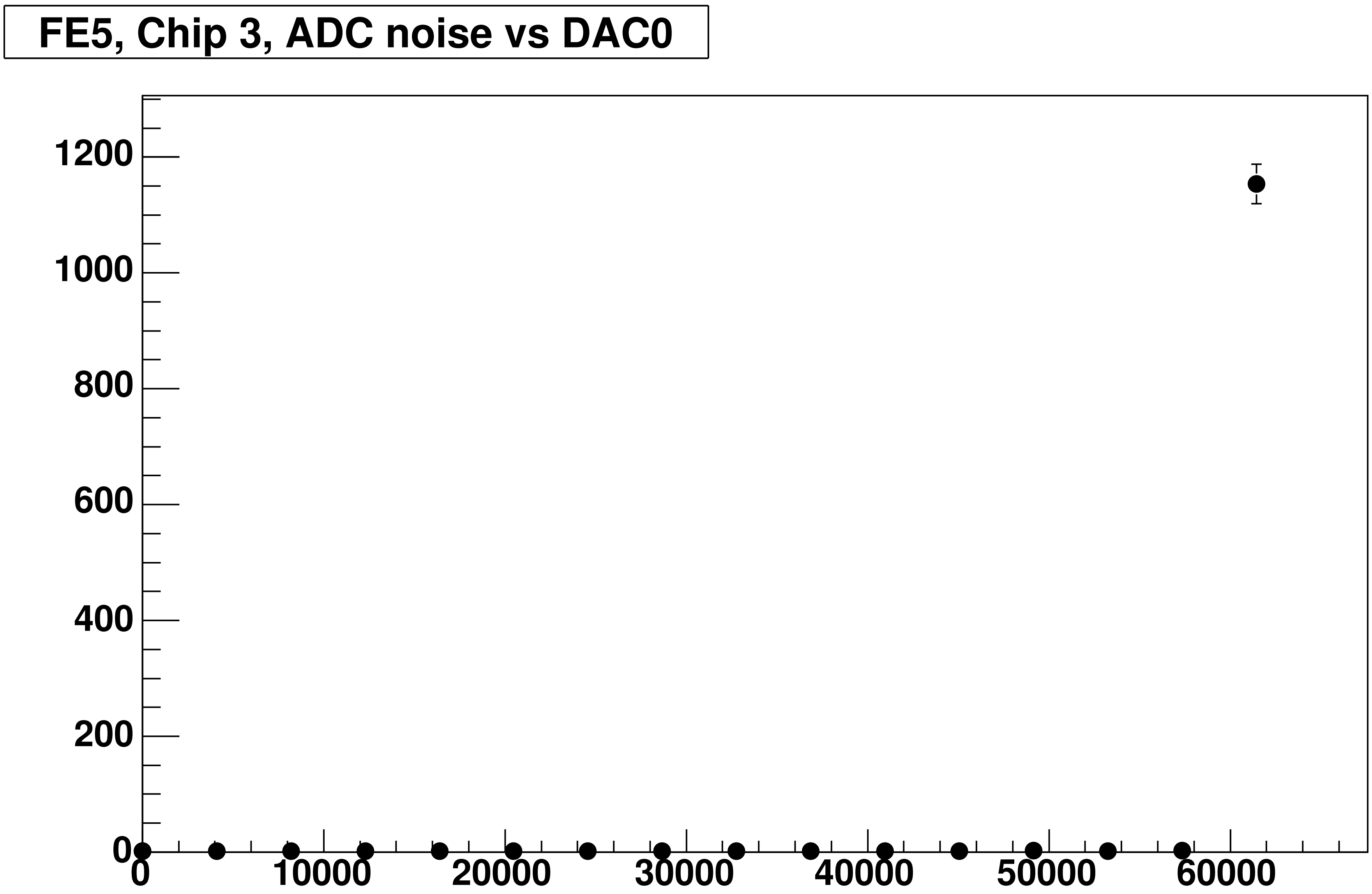
FE5, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

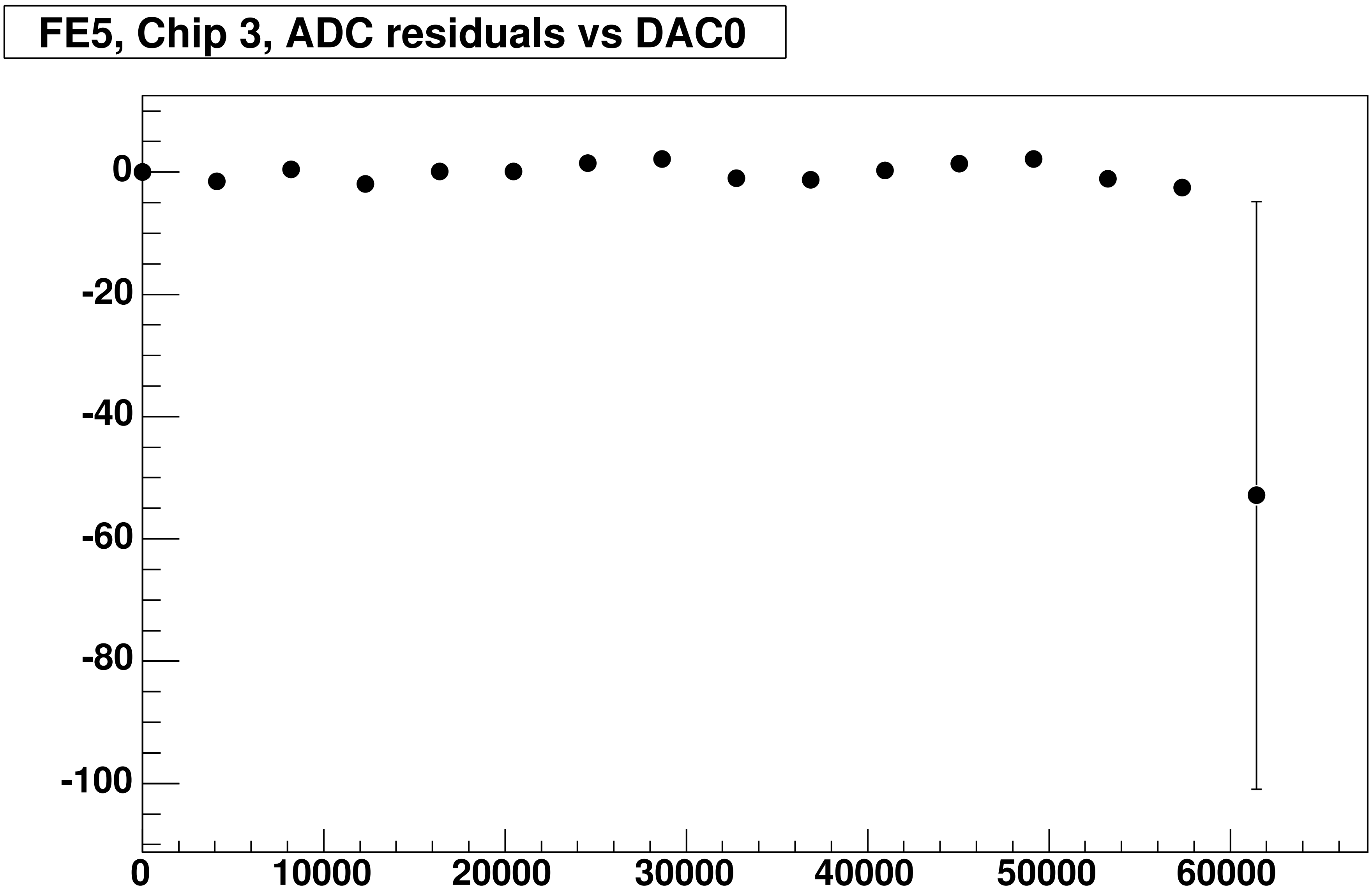
FE5, Chip 2, ADC residuals vs DAC1

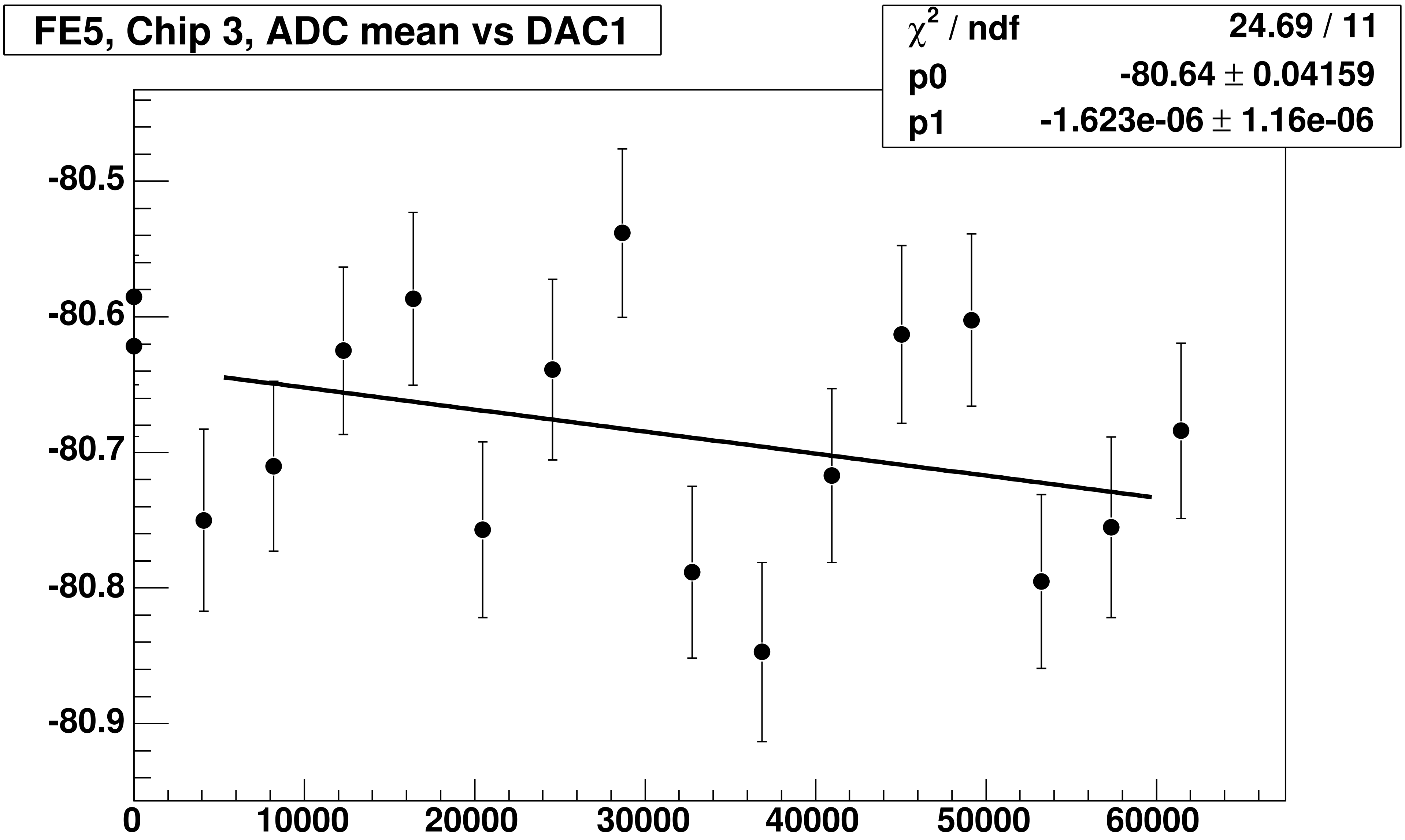


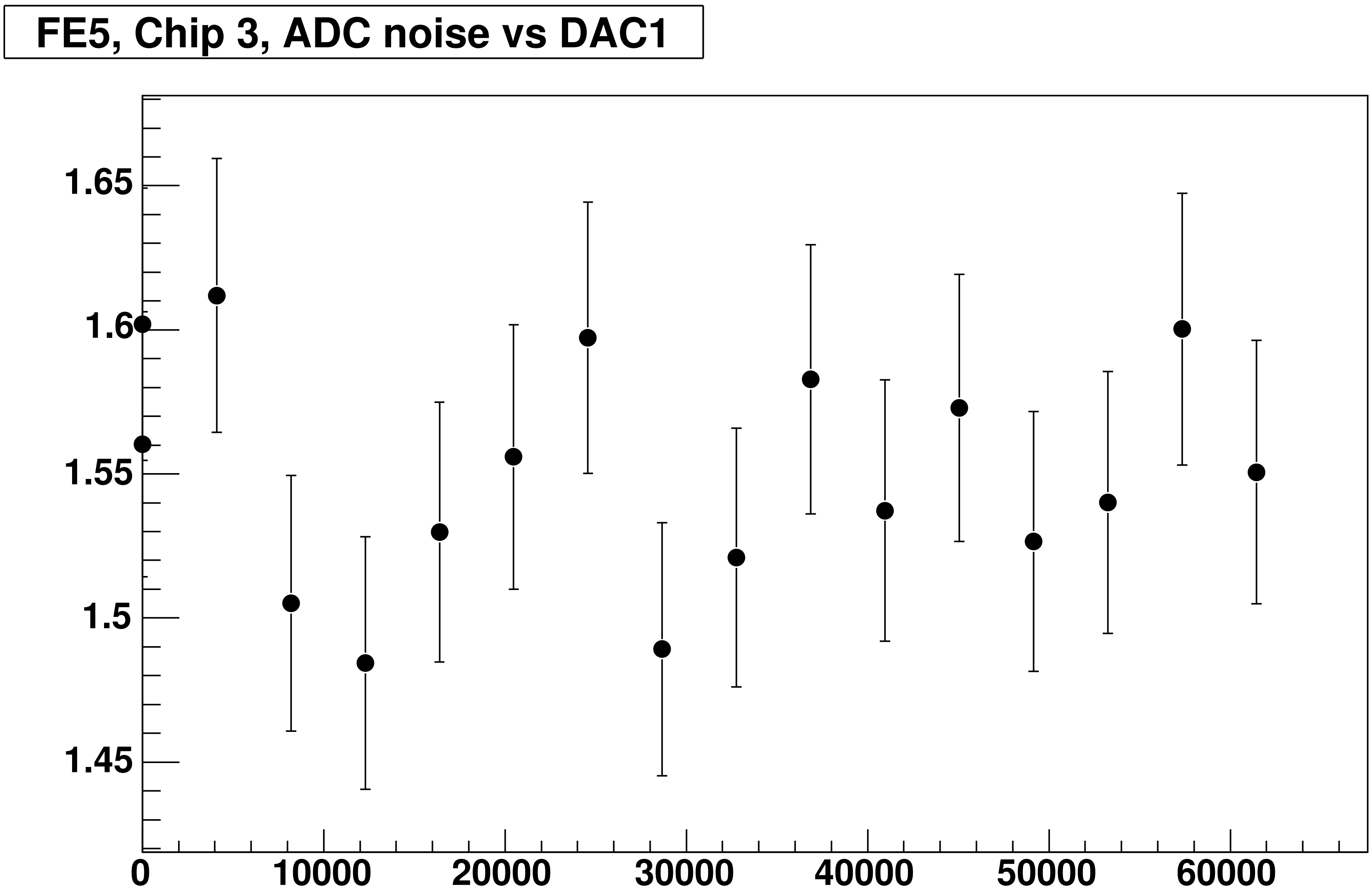


FE5, Chip 3, ADC mean vs DAC0
χ² / ndf 4546 / 11
p0 -79.32 ± 0.04245
p1 0.4522 ± 1.371e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

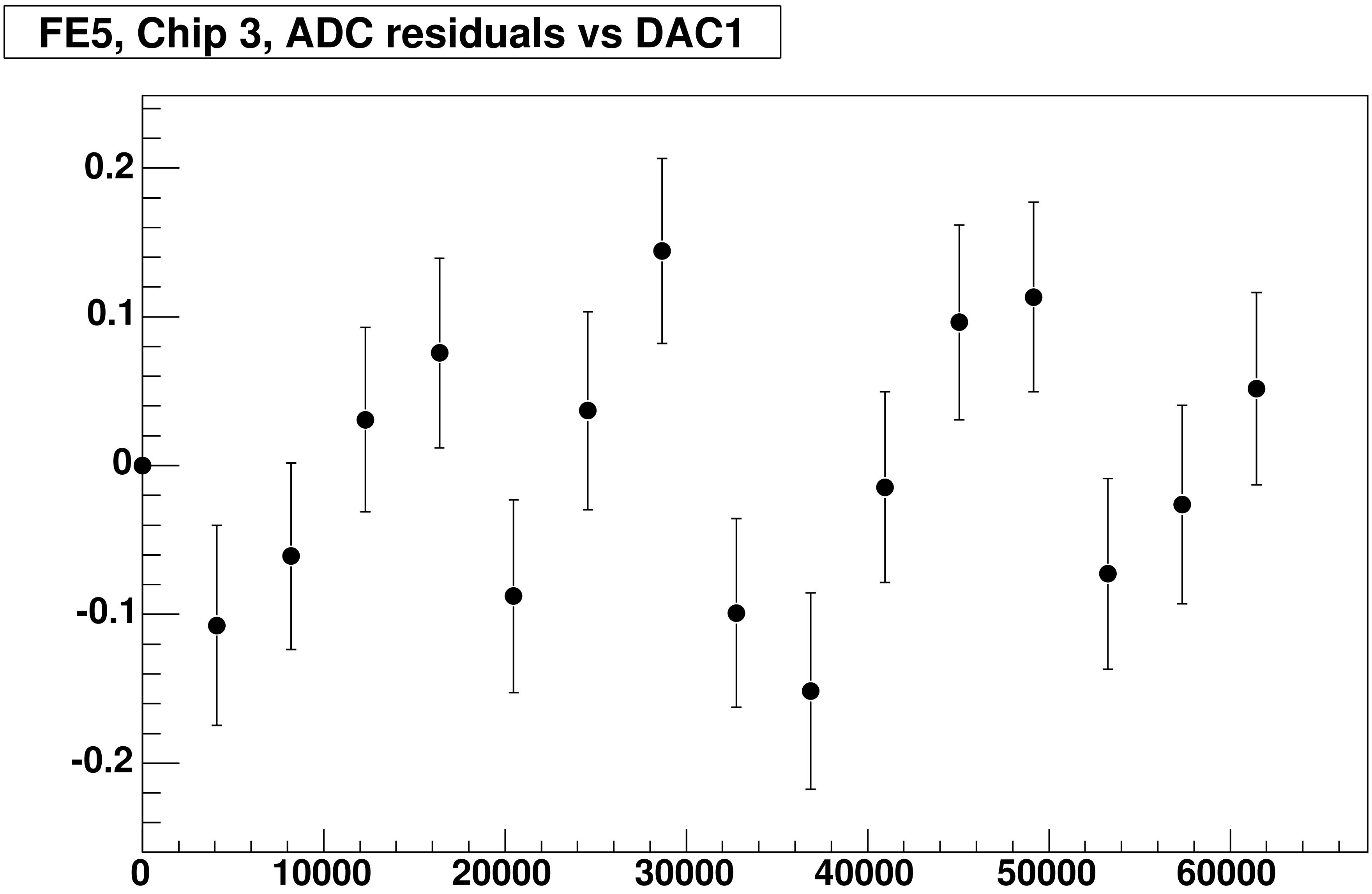

FE5, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

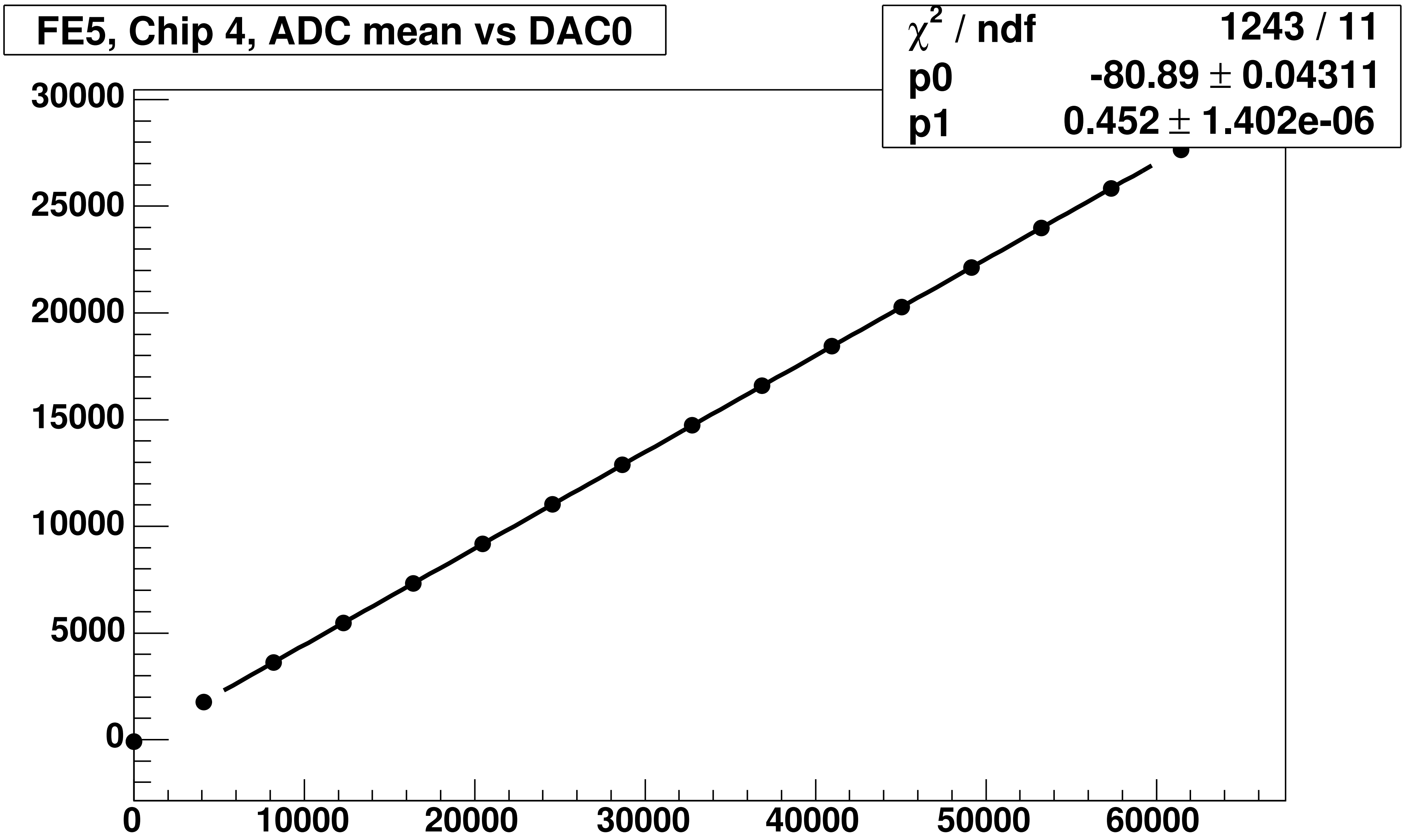

FE5, Chip 3, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE5, Chip 3, ADC mean vs DAC1
χ^2 / ndf 24.69 / 11
p0 -80.64 ± 0.04159
p1 -1.623e-06 ± 1.16e-06
-80.5
-80.6
-80.7
-80.8
-80.9
0
10000
20000
30000
40000
50000
60000

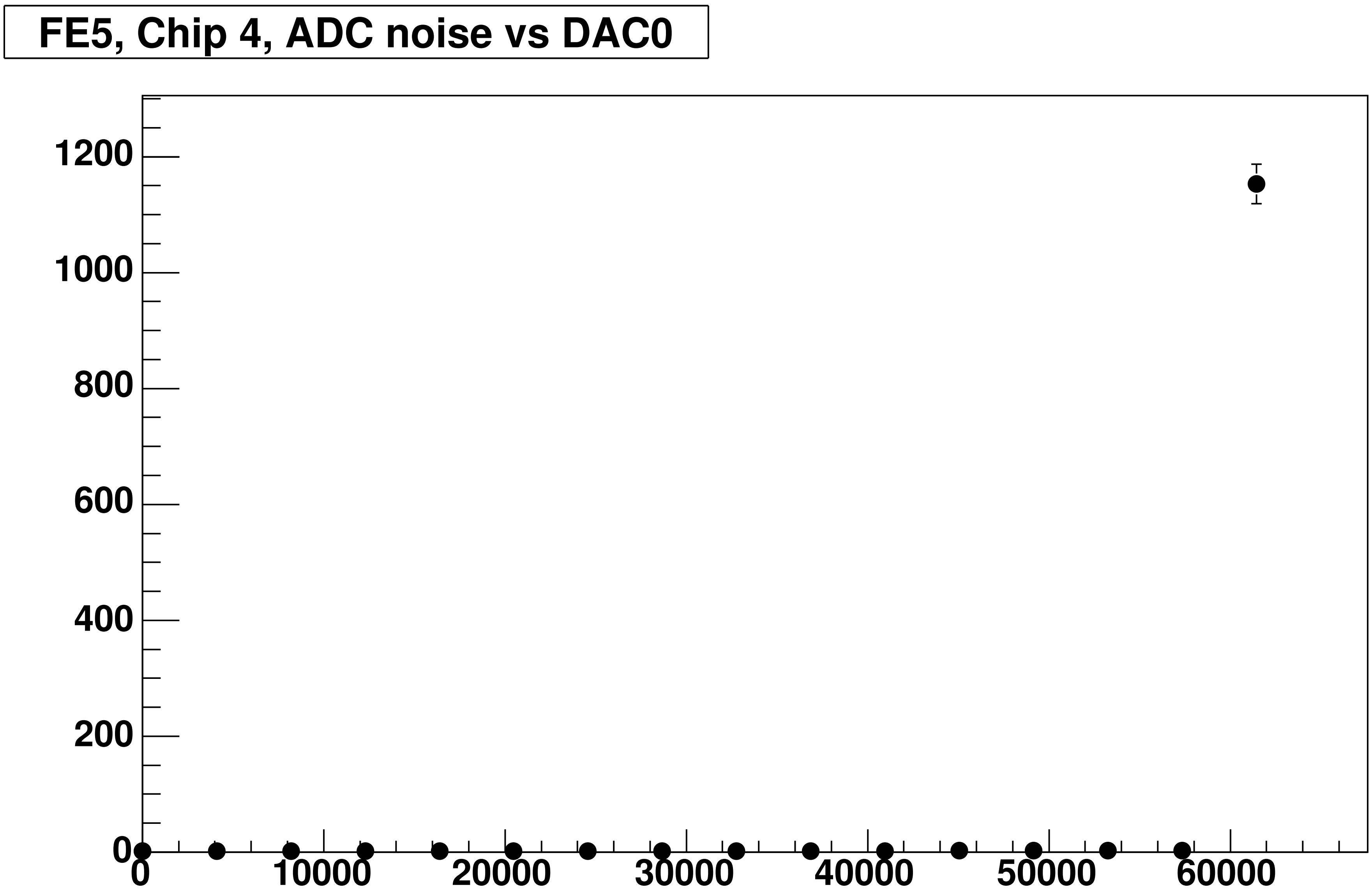


FE5, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

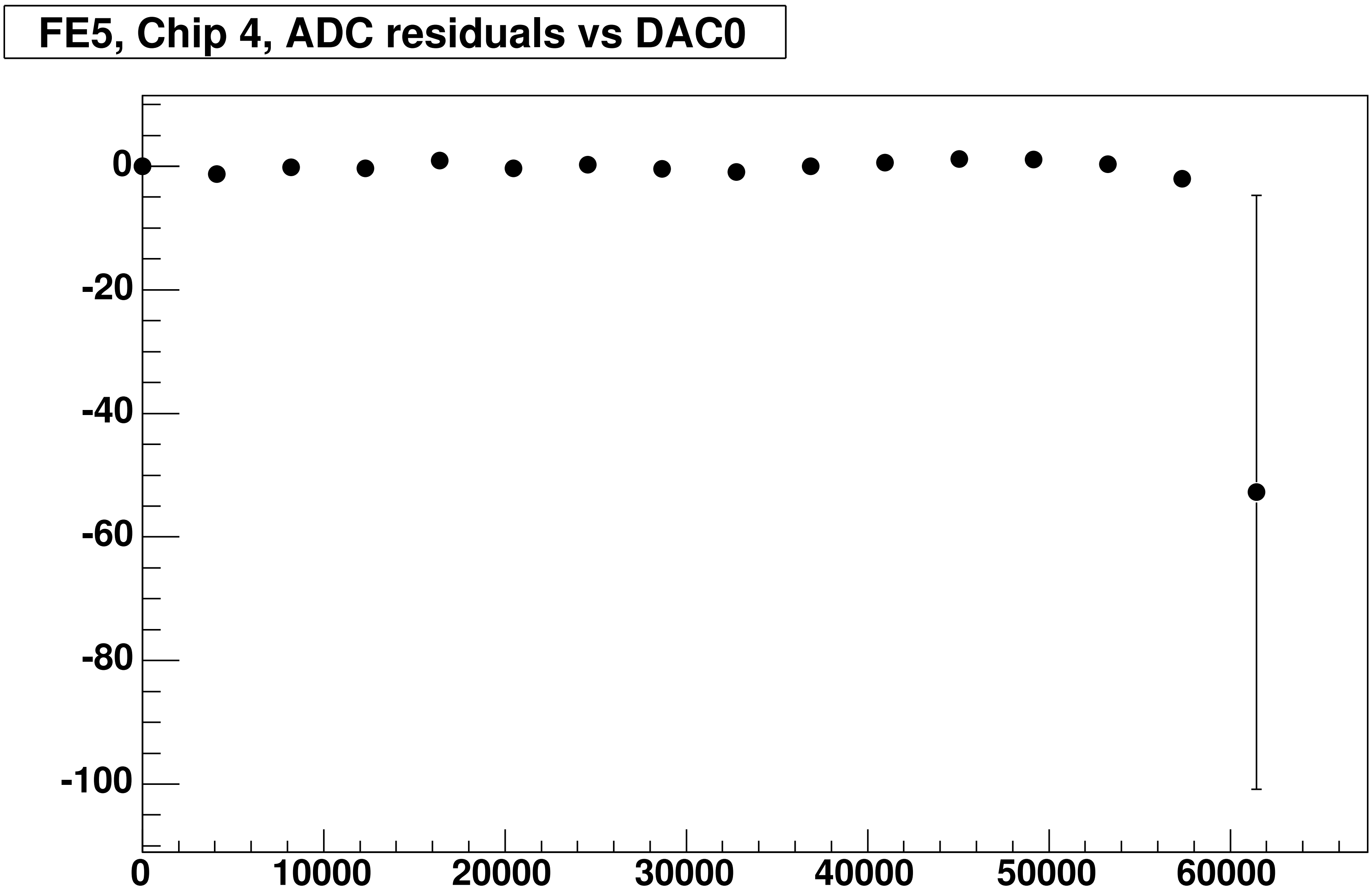

FE5, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

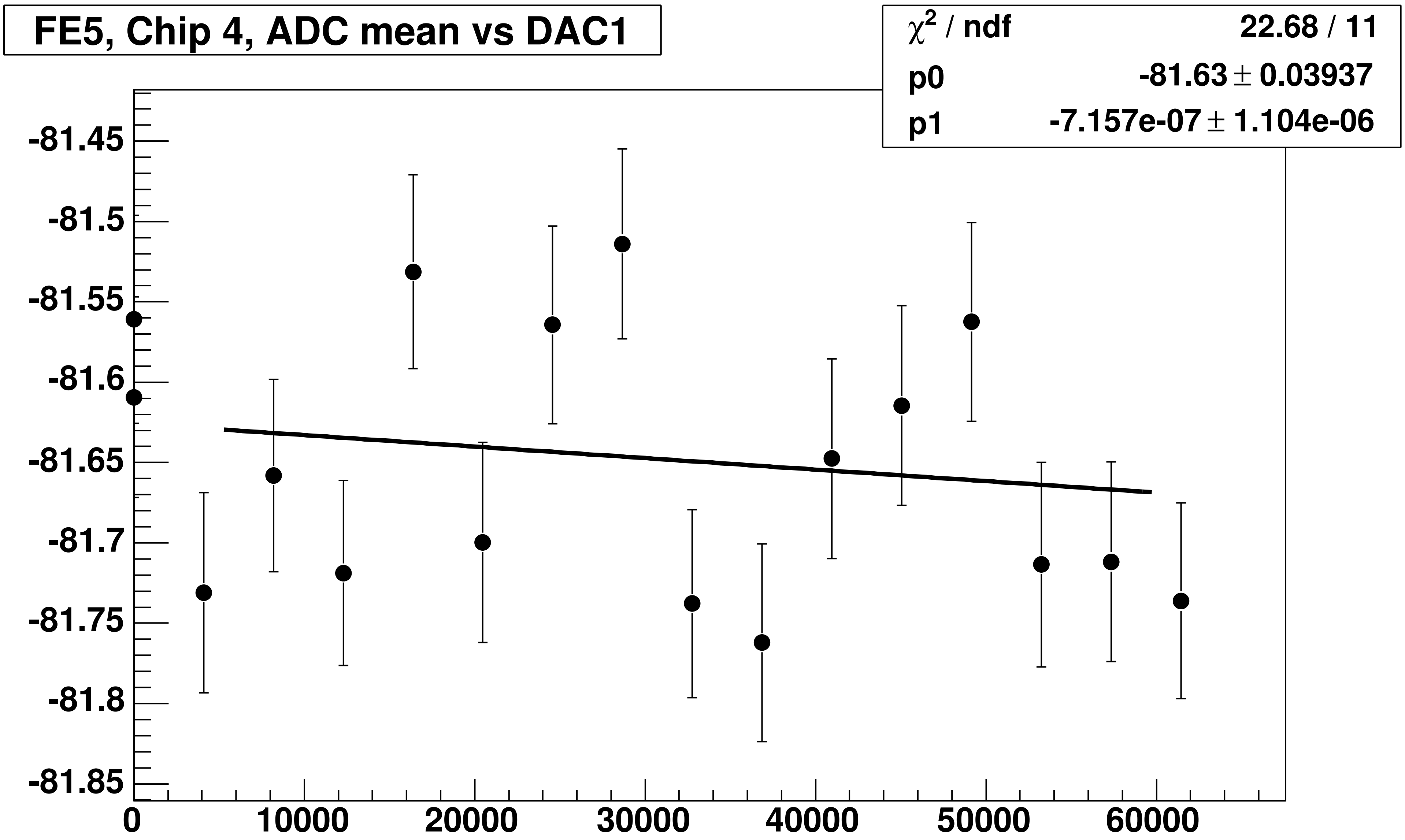


FE5, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1243 / 11
p0 -80.89 ± 0.04311
p1 0.452 ± 1.402e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



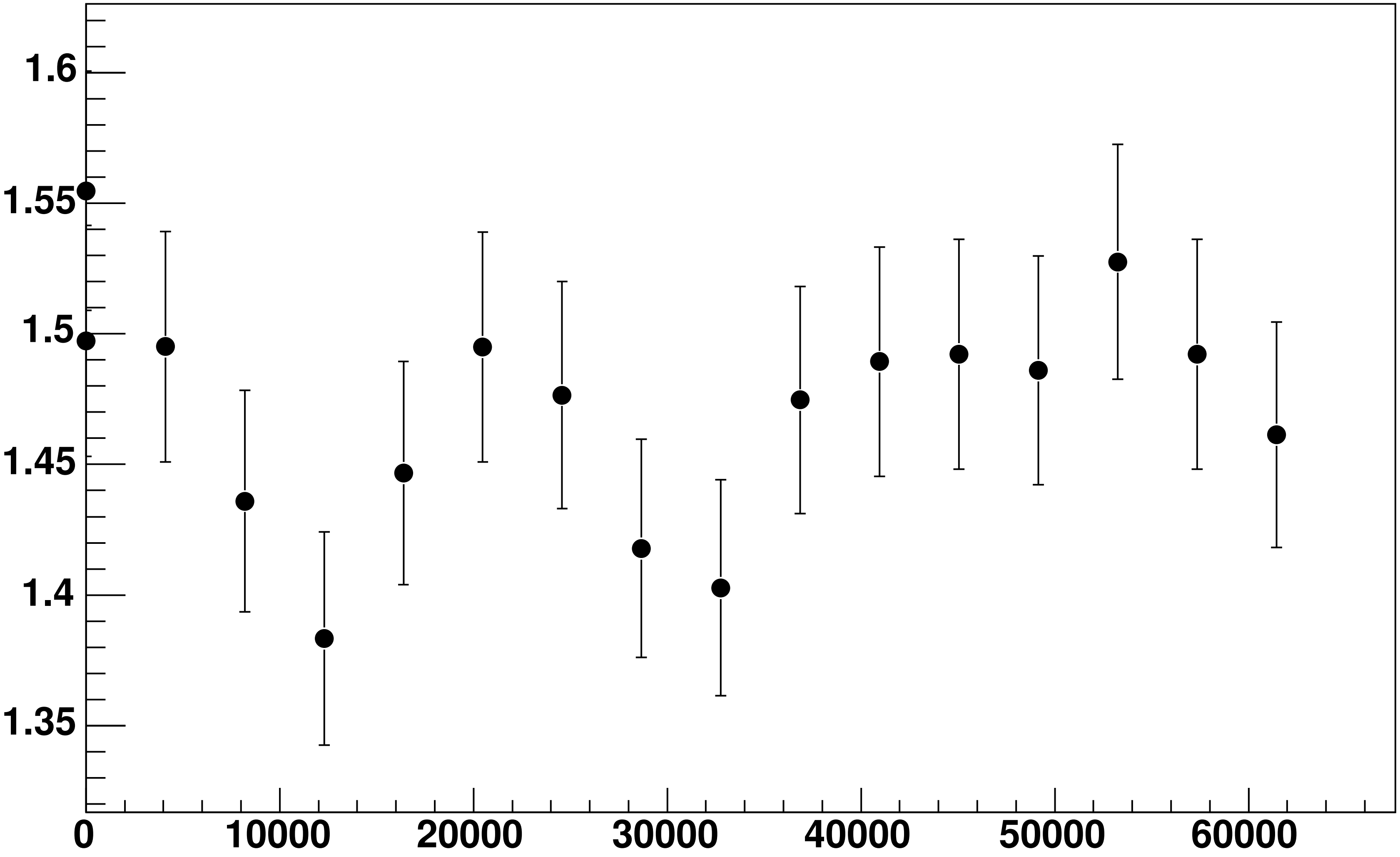
FE5, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

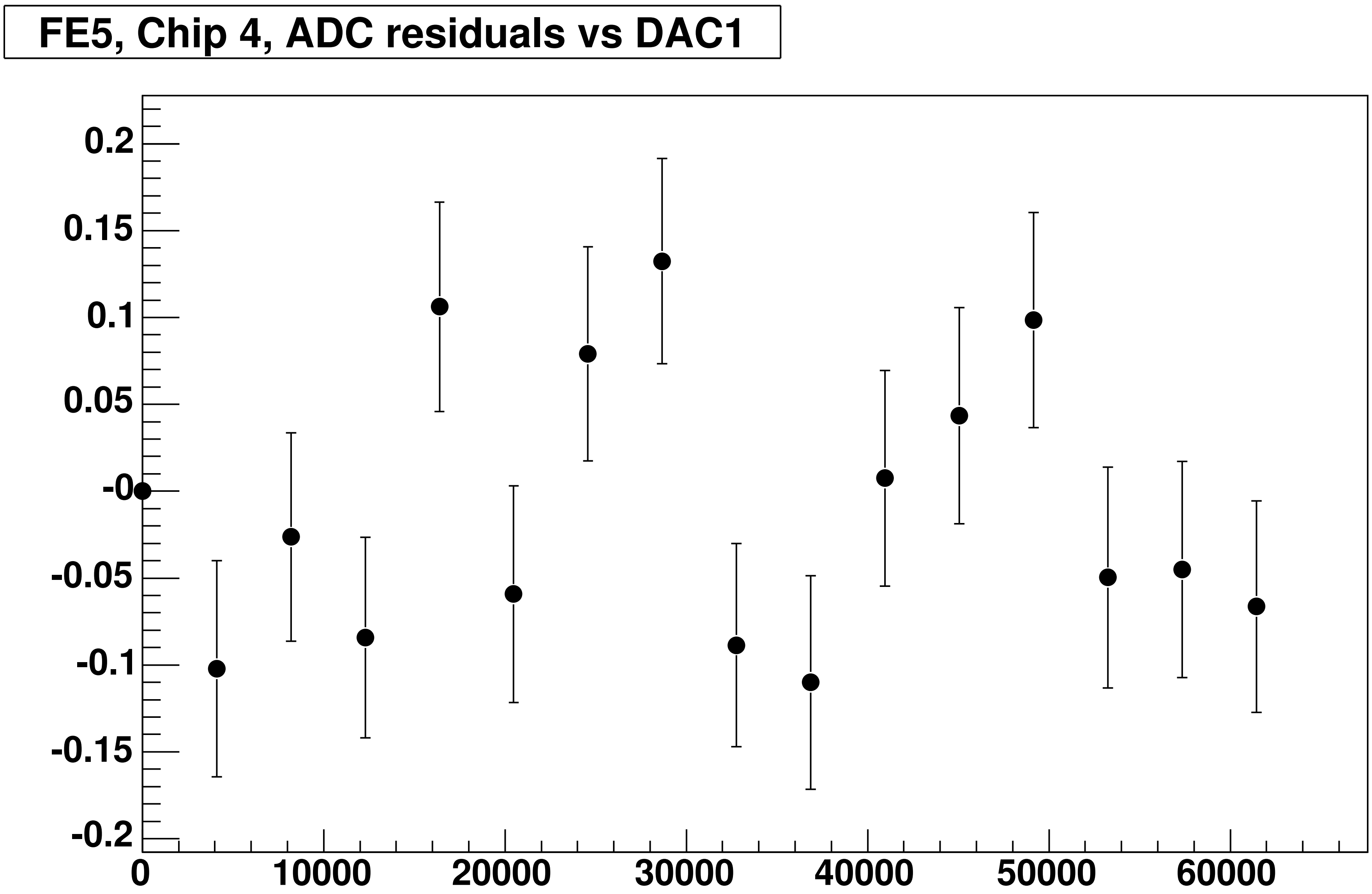

FE5, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



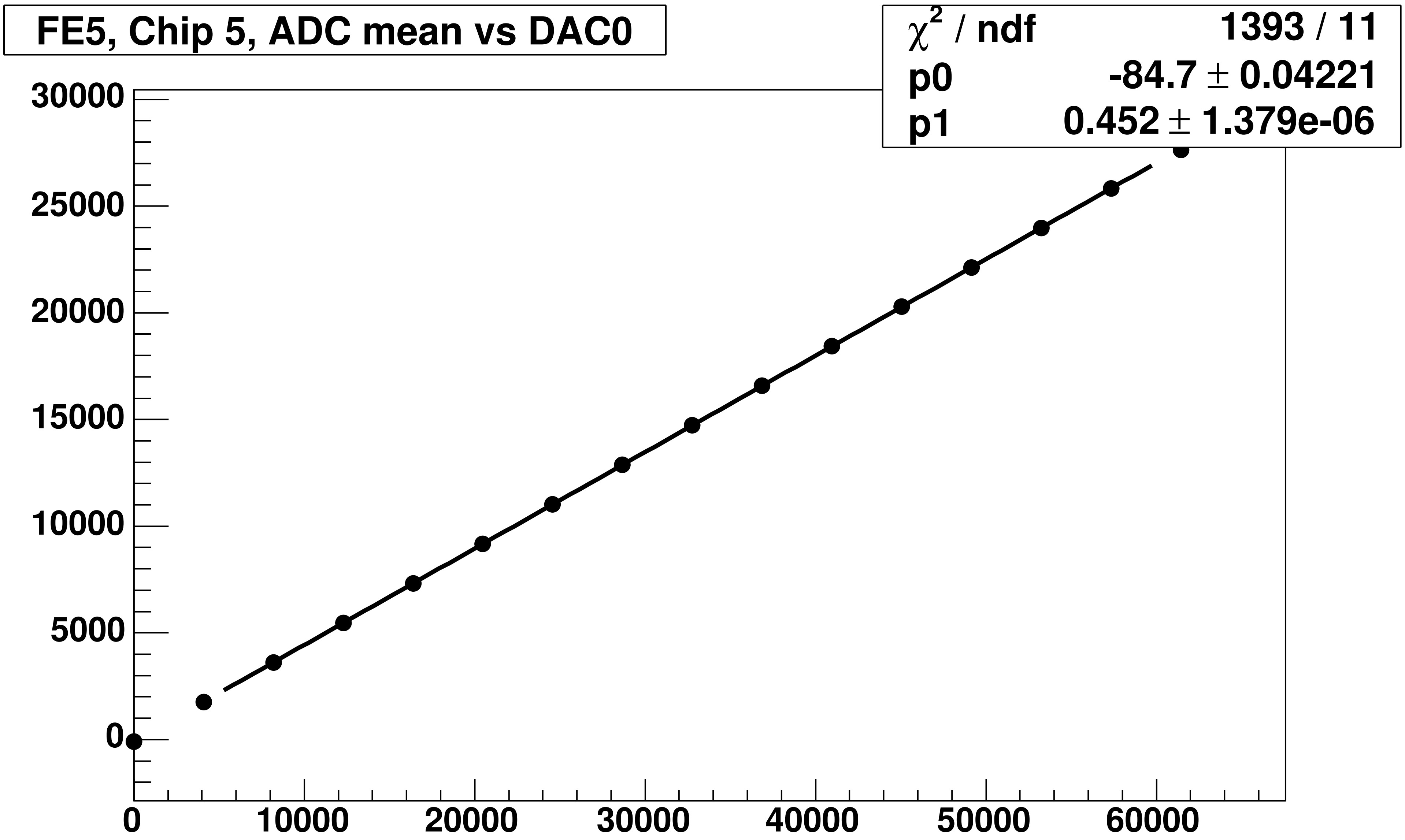
FE5, Chip 4, ADC mean vs DAC1
χ^2 / ndf 22.68 / 11
p0 -81.63 ± 0.03937
p1 -7.157e-07 ± 1.104e-06
-81.45
-81.5
-81.55
-81.6
-81.65
-81.7
-81.75
-81.8
-81.85
0
10000
20000
30000
40000
50000
60000

FE5, Chip 4, ADC noise vs DAC1

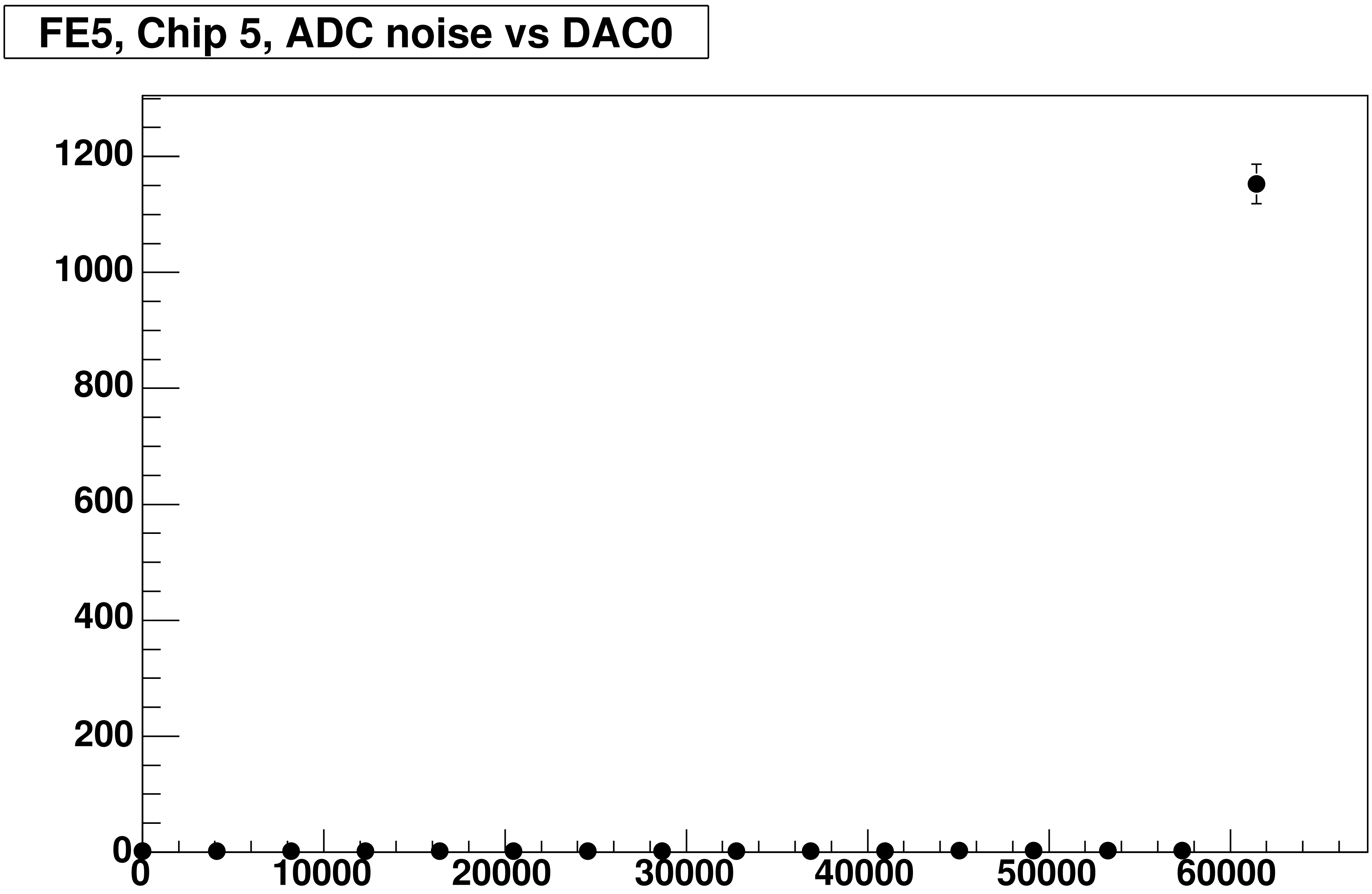




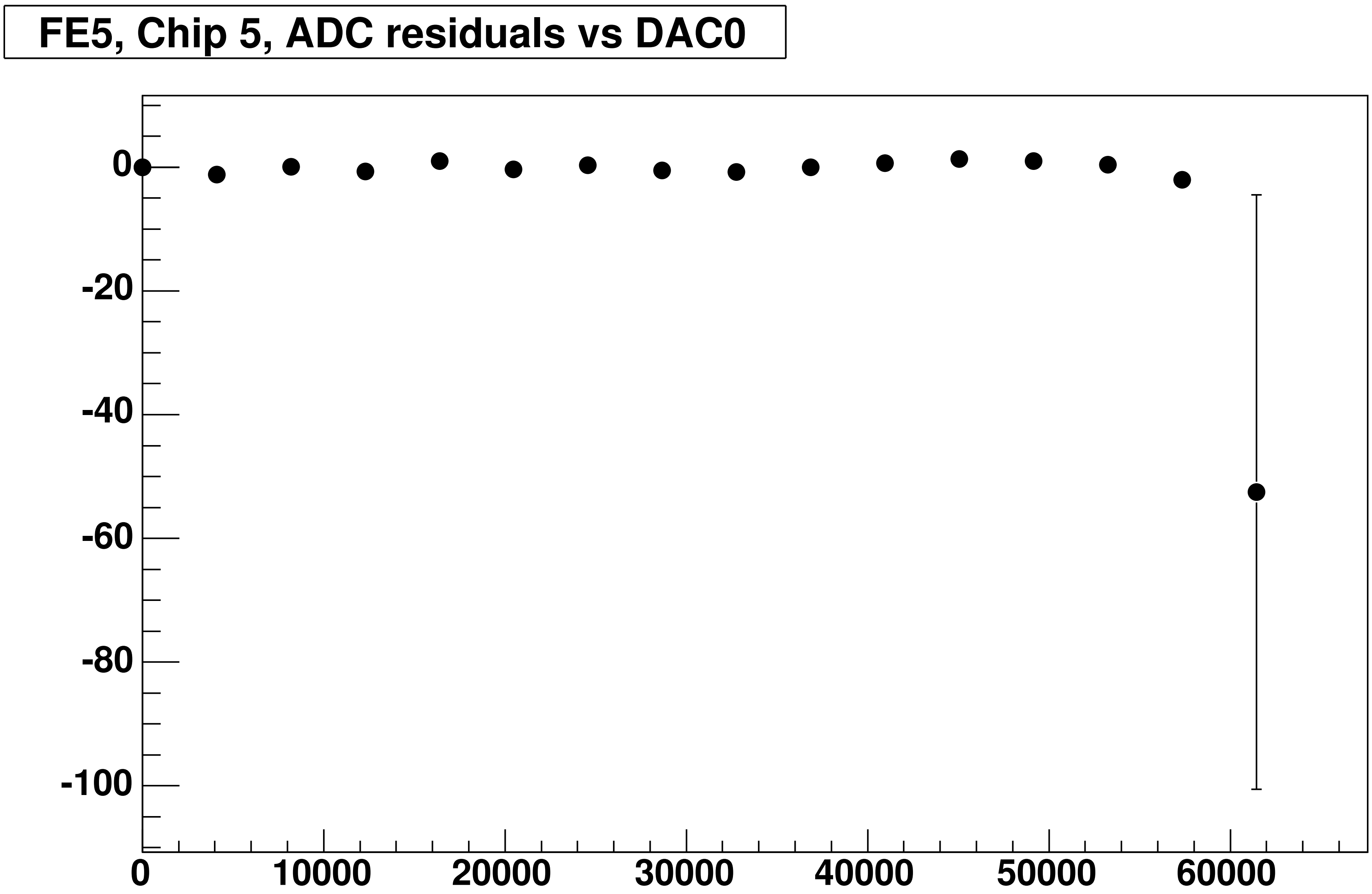
FE5, Chip 4, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

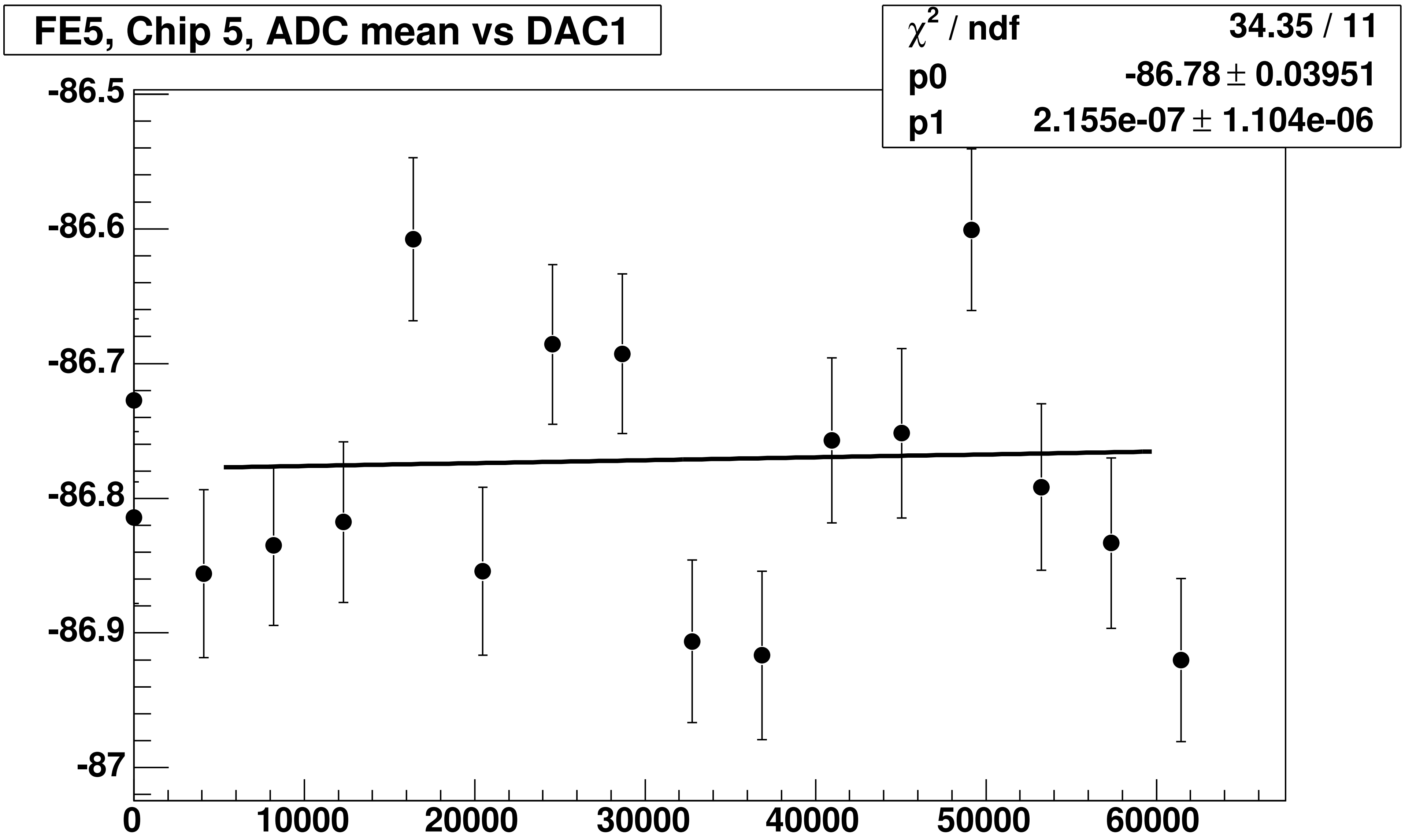


FE5, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1393 / 11
p0 -84.7 ± 0.04221
p1 0.452 ± 1.379e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

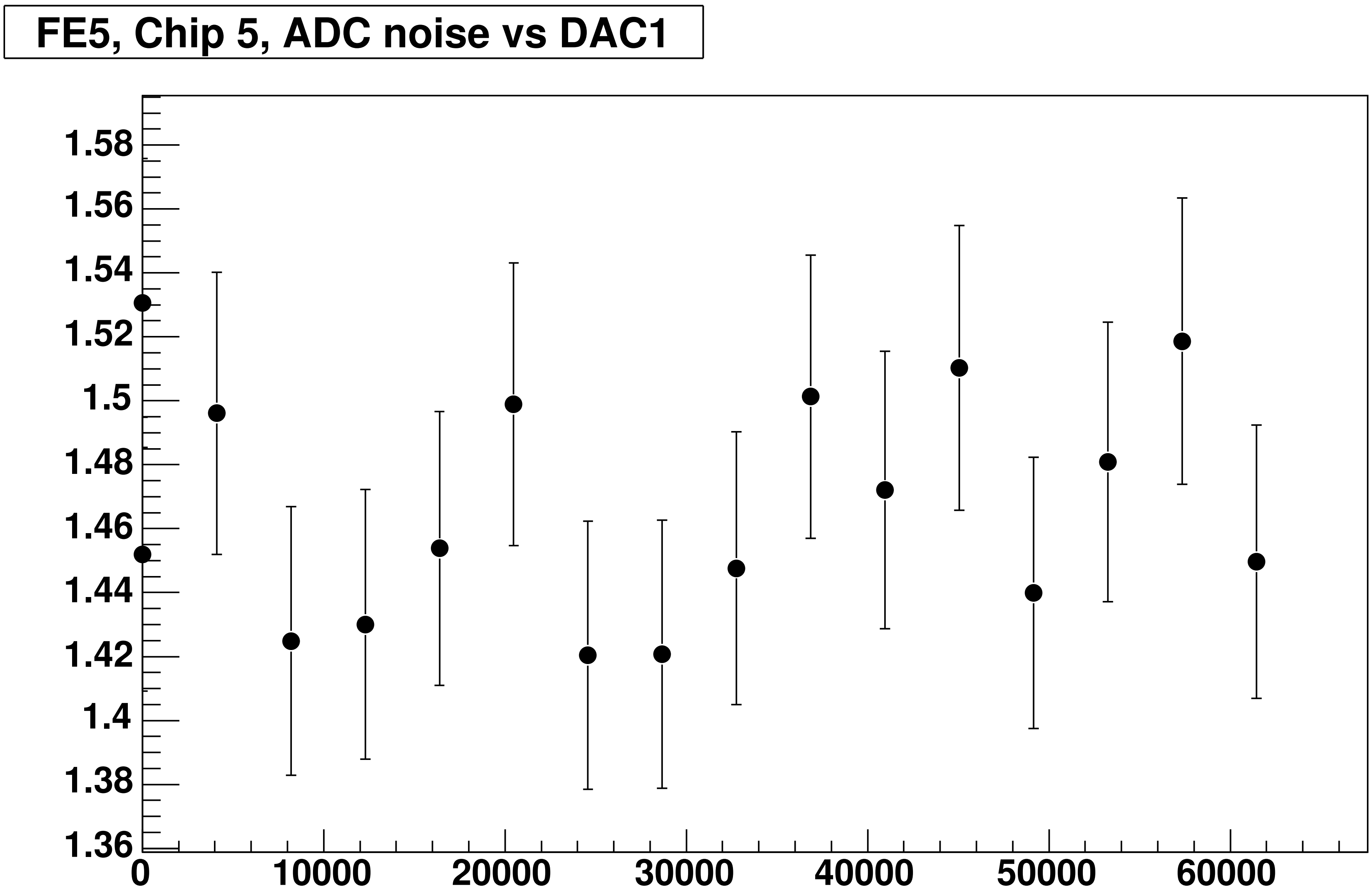


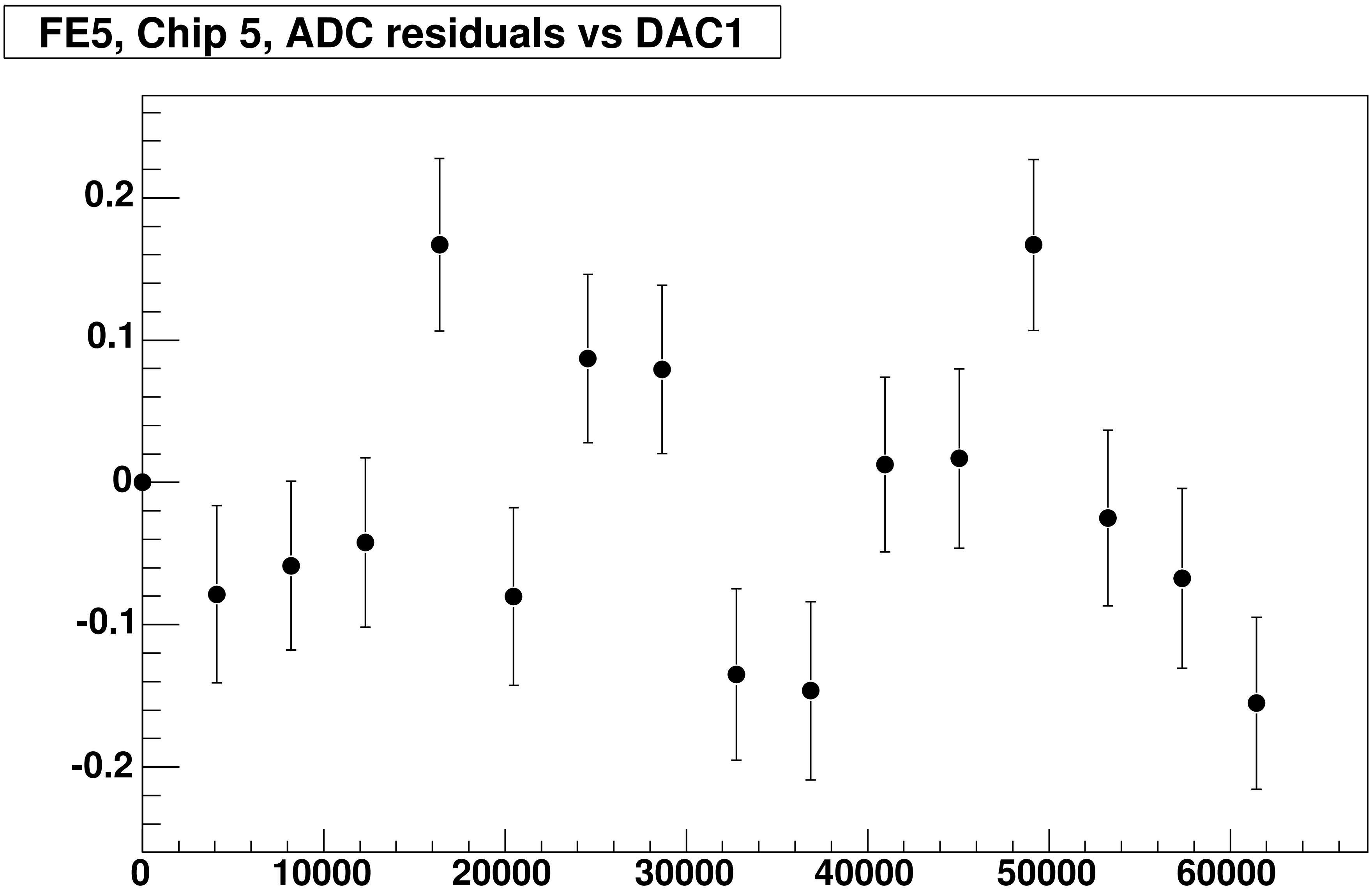
FE5, Chip 5, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

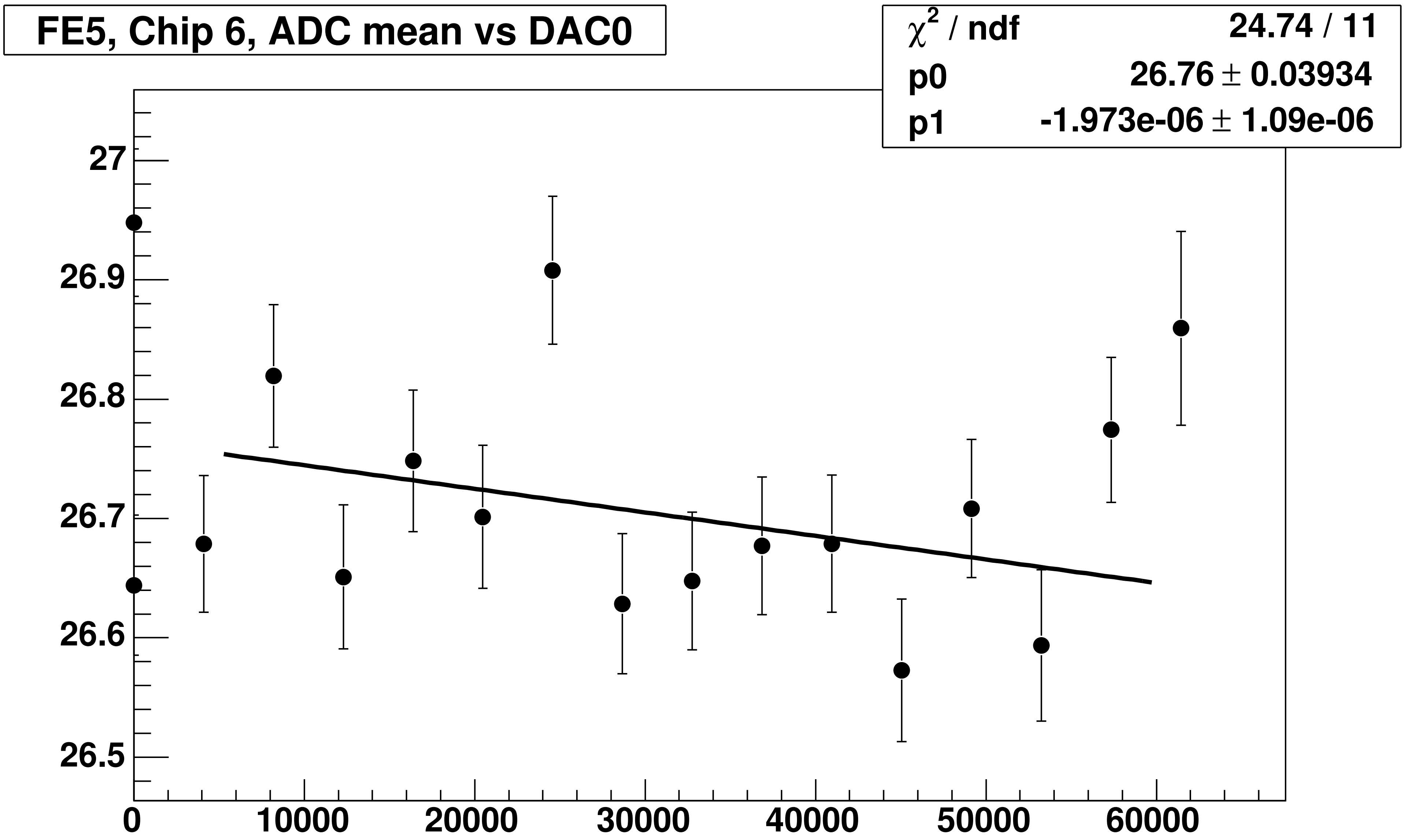

FE5, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



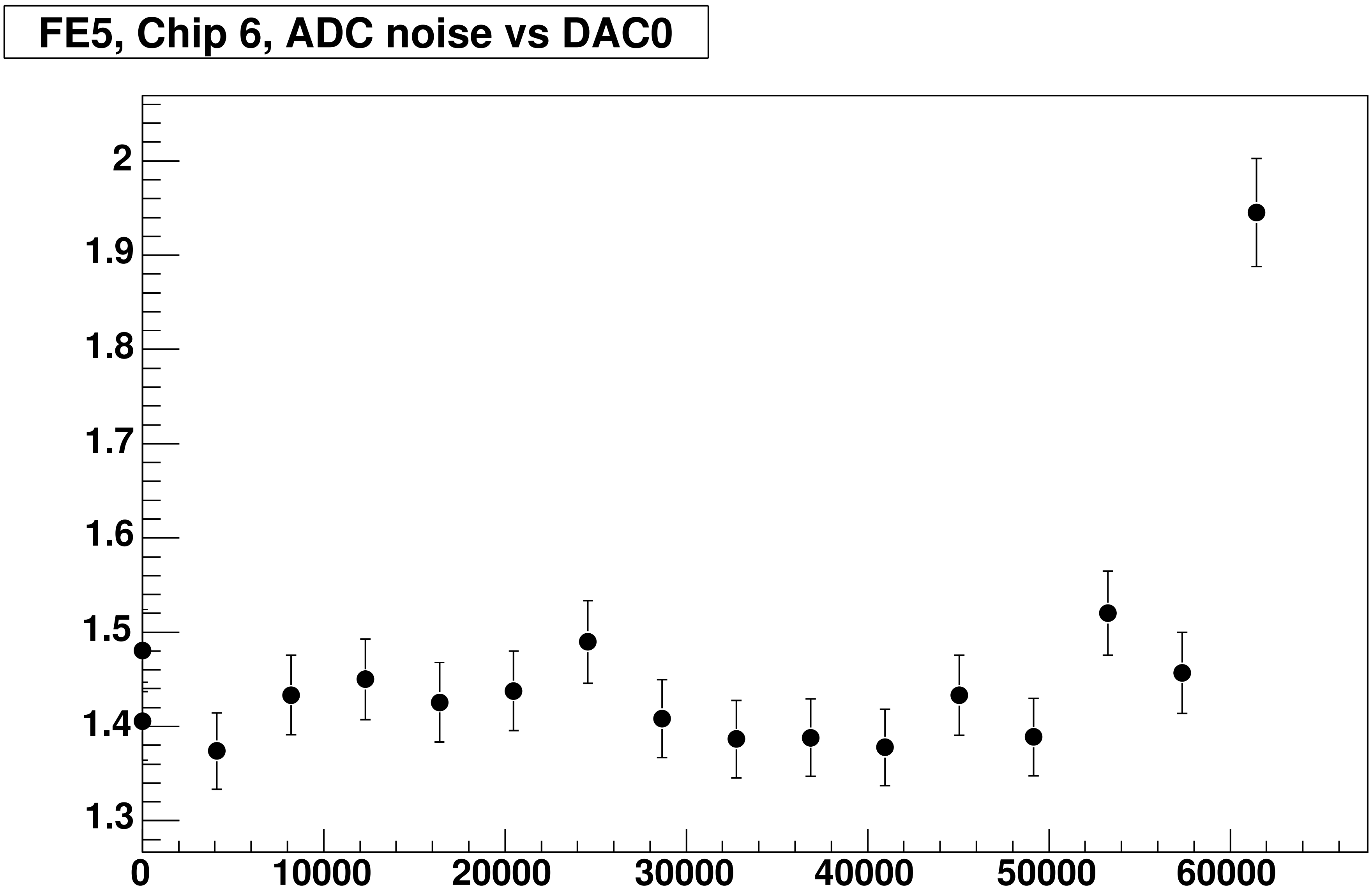
FE5, Chip 5, ADC mean vs DAC1
χ^2 / ndf 34.35 / 11
p0 -86.78 ± 0.03951
p1 2.155e-07 ± 1.104e-06
-86.5
-86.6
-86.7
-86.8
-86.9
-87
0
10000
20000
30000
40000
50000
60000


FE5, Chip 5, 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

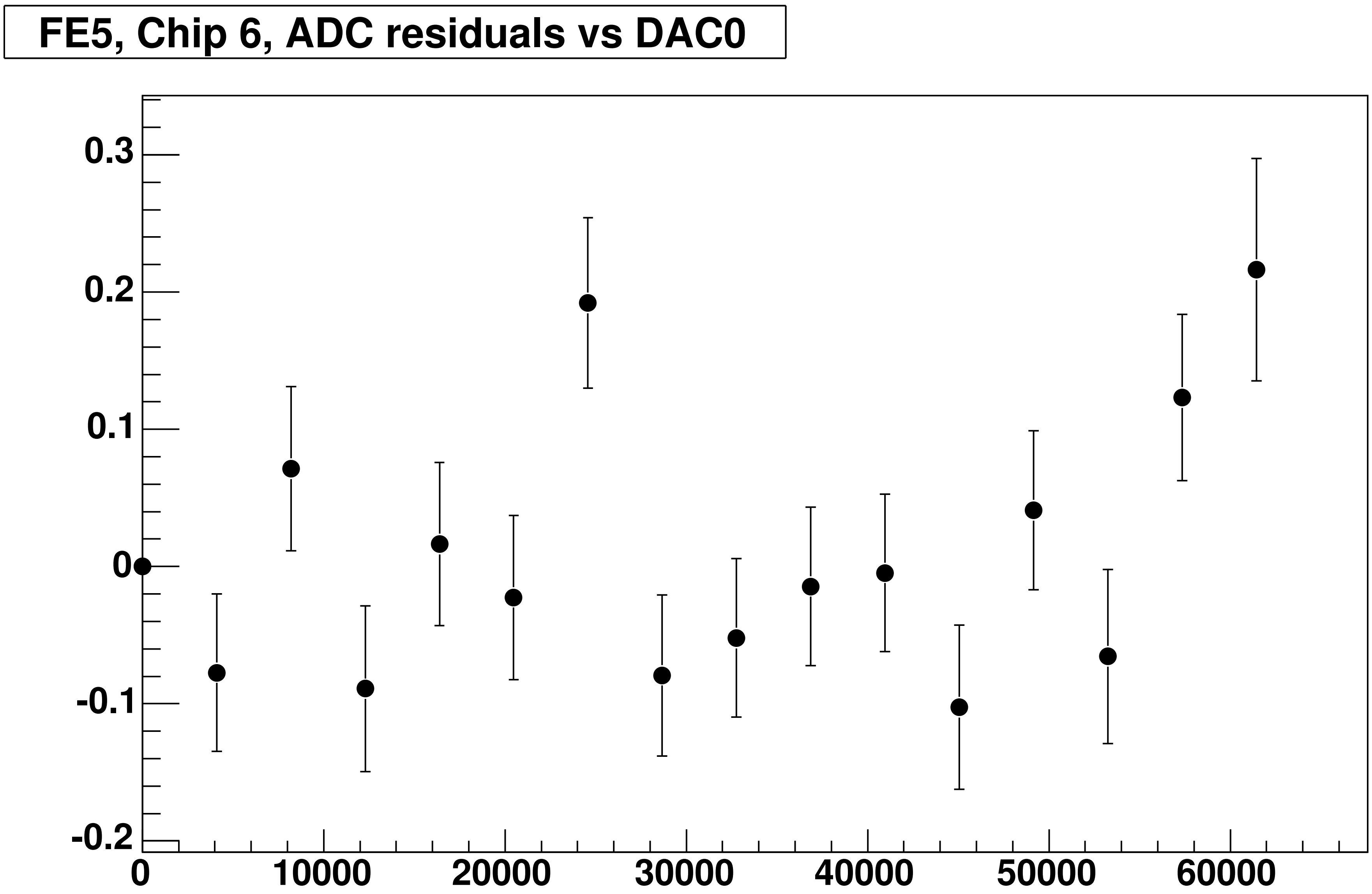

FE5, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

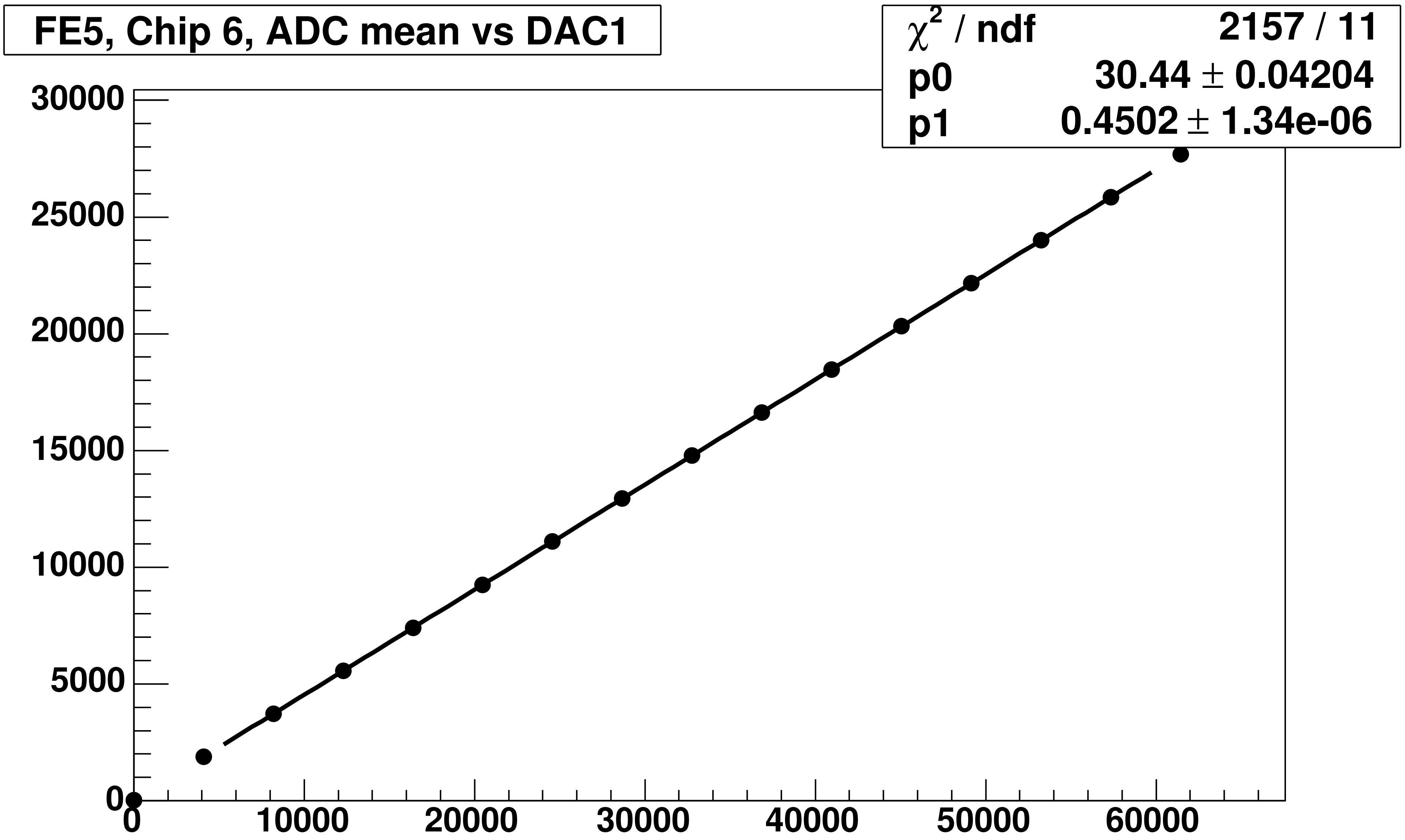


FE5, Chip 6, ADC mean vs DAC0
χ² / ndf 24.74 / 11
p0 26.76 ± 0.03934
p1 -1.973e-06 ± 1.09e-06
27
26.9
26.8
26.7
26.6
26.5
0
10000
20000
30000
40000
50000
60000

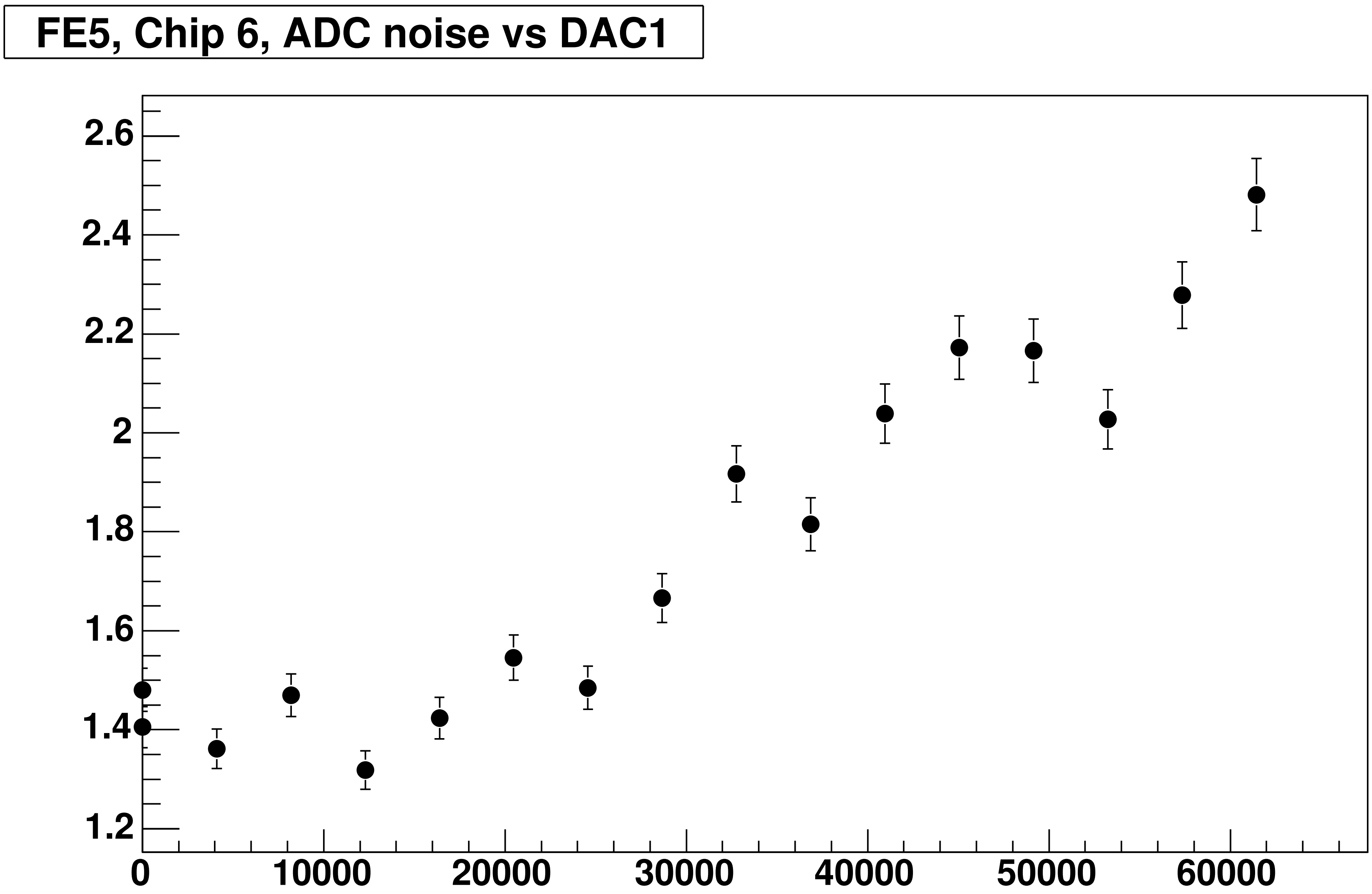


FE5, Chip 6, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

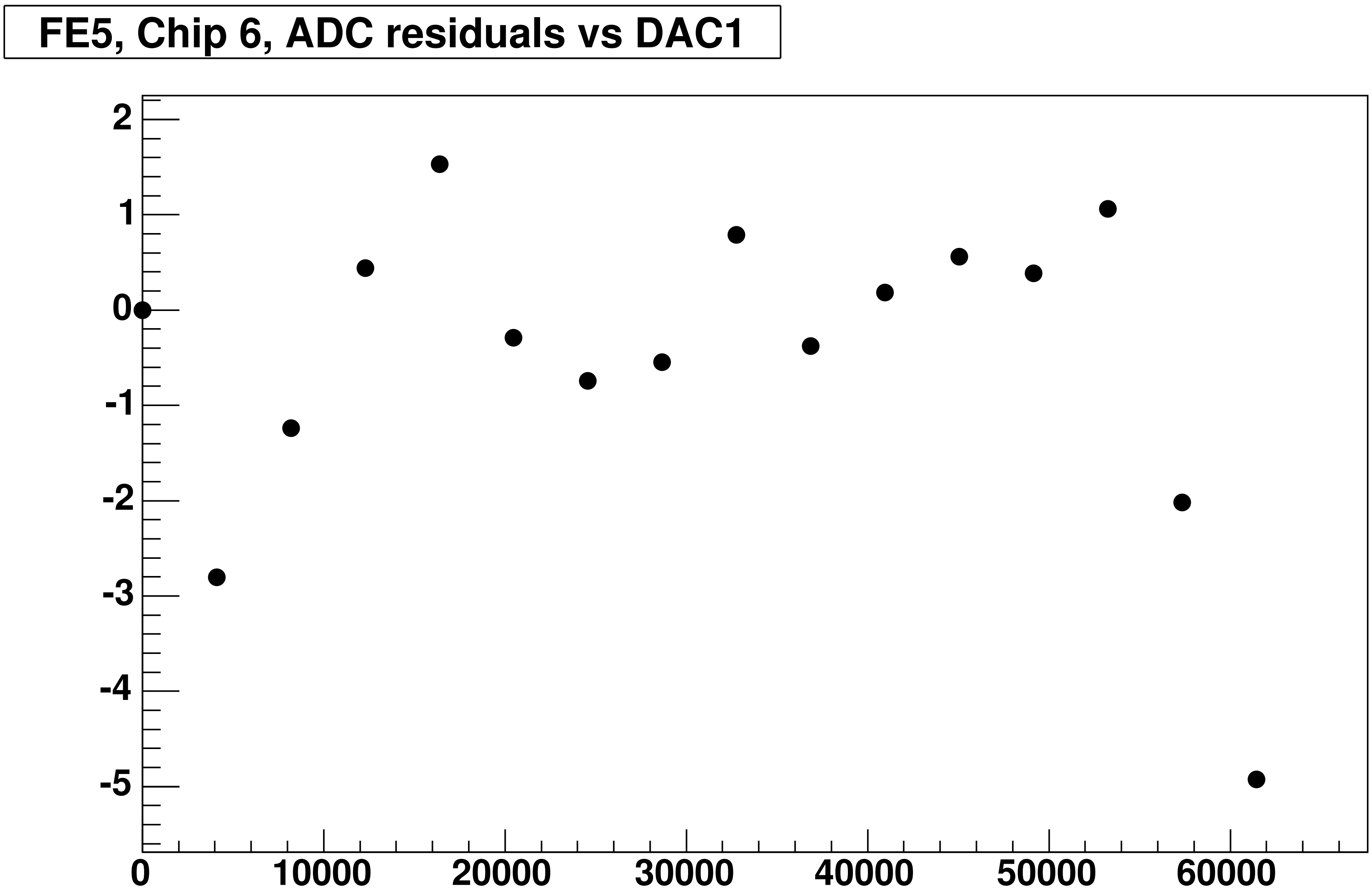

FE5, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



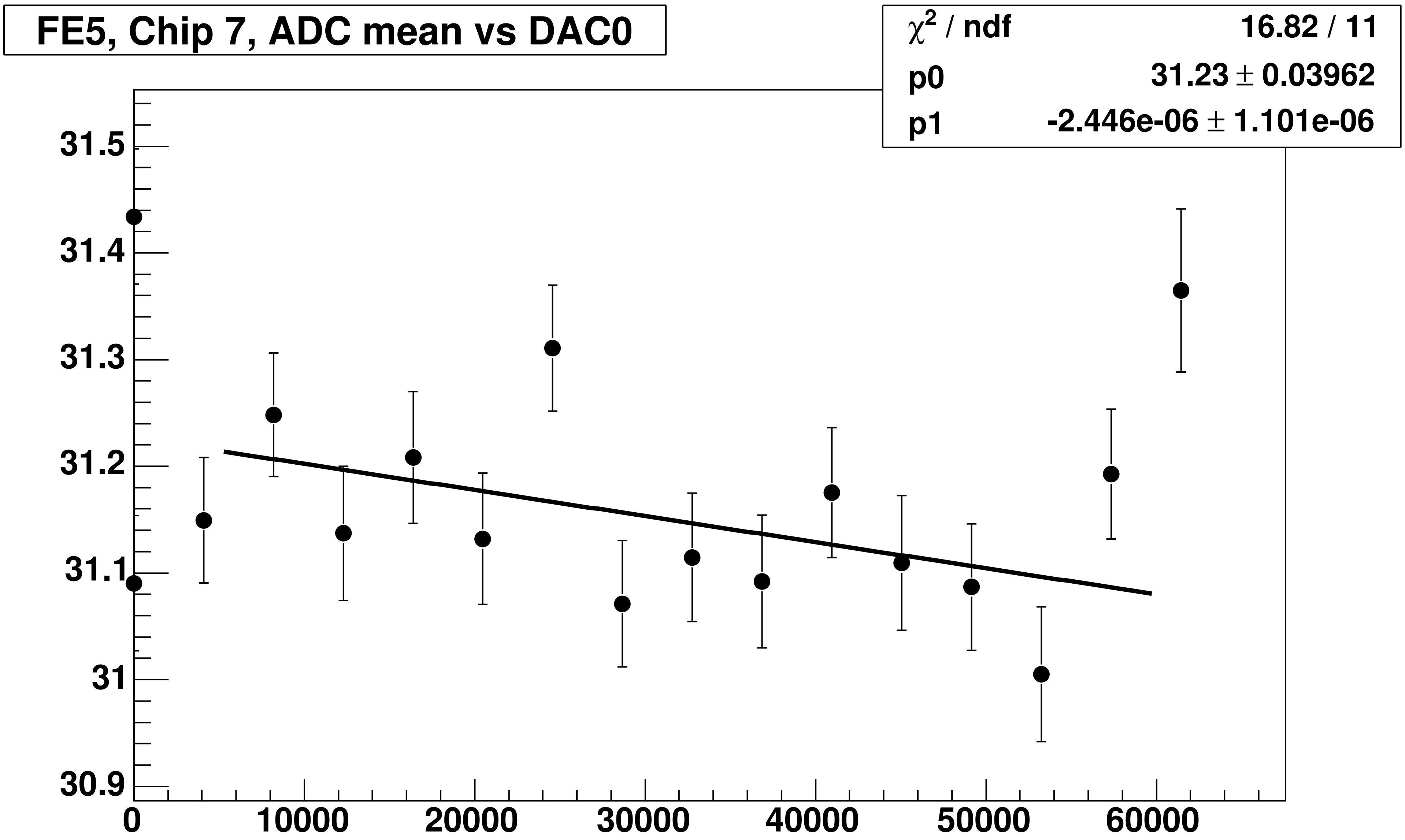
FE5, Chip 6, ADC mean vs DAC1
χ^2 / ndf 2157 / 11
p0 30.44 ± 0.04204
p1 0.4502 ± 1.34e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



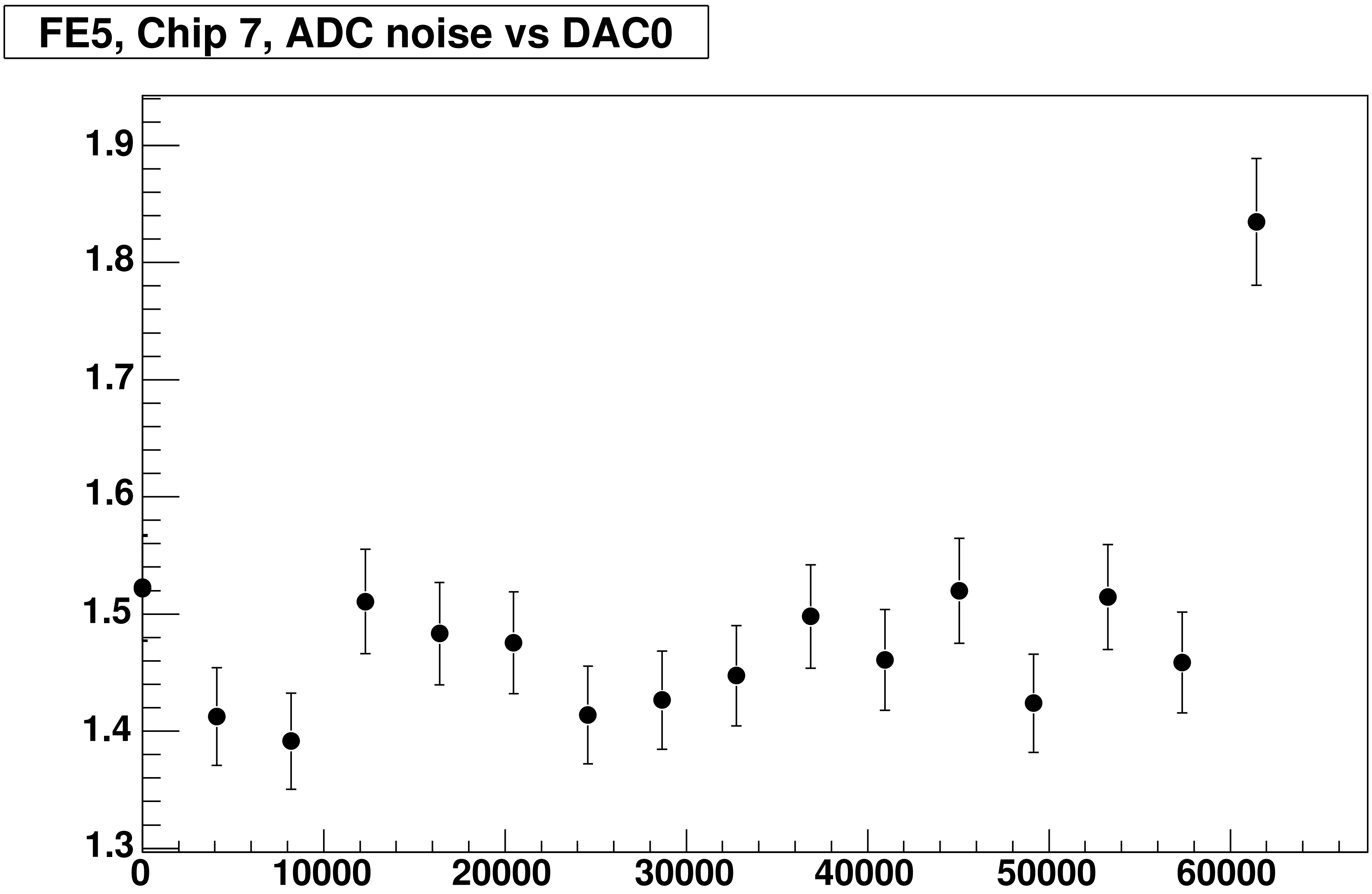
FE5, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

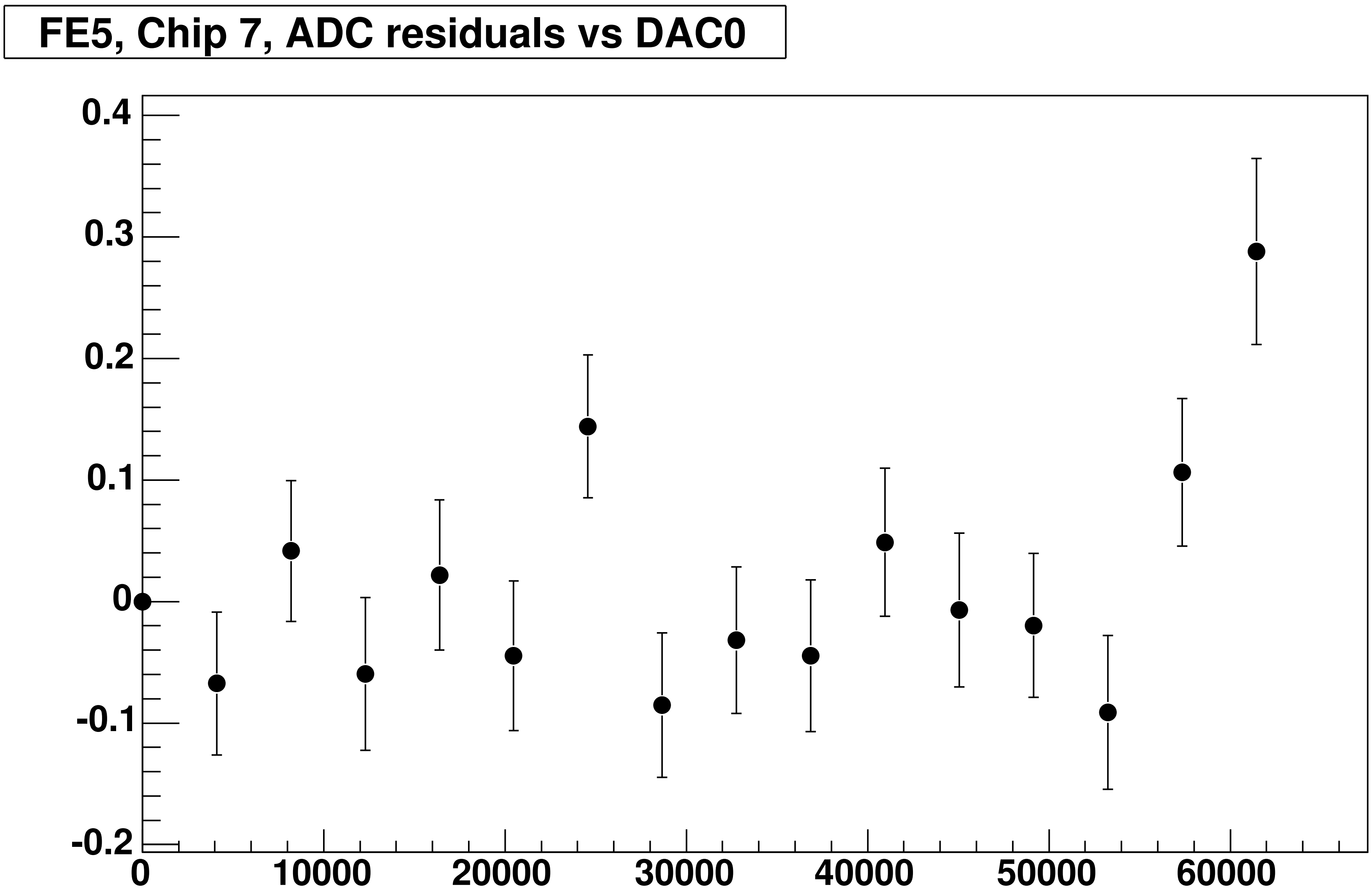


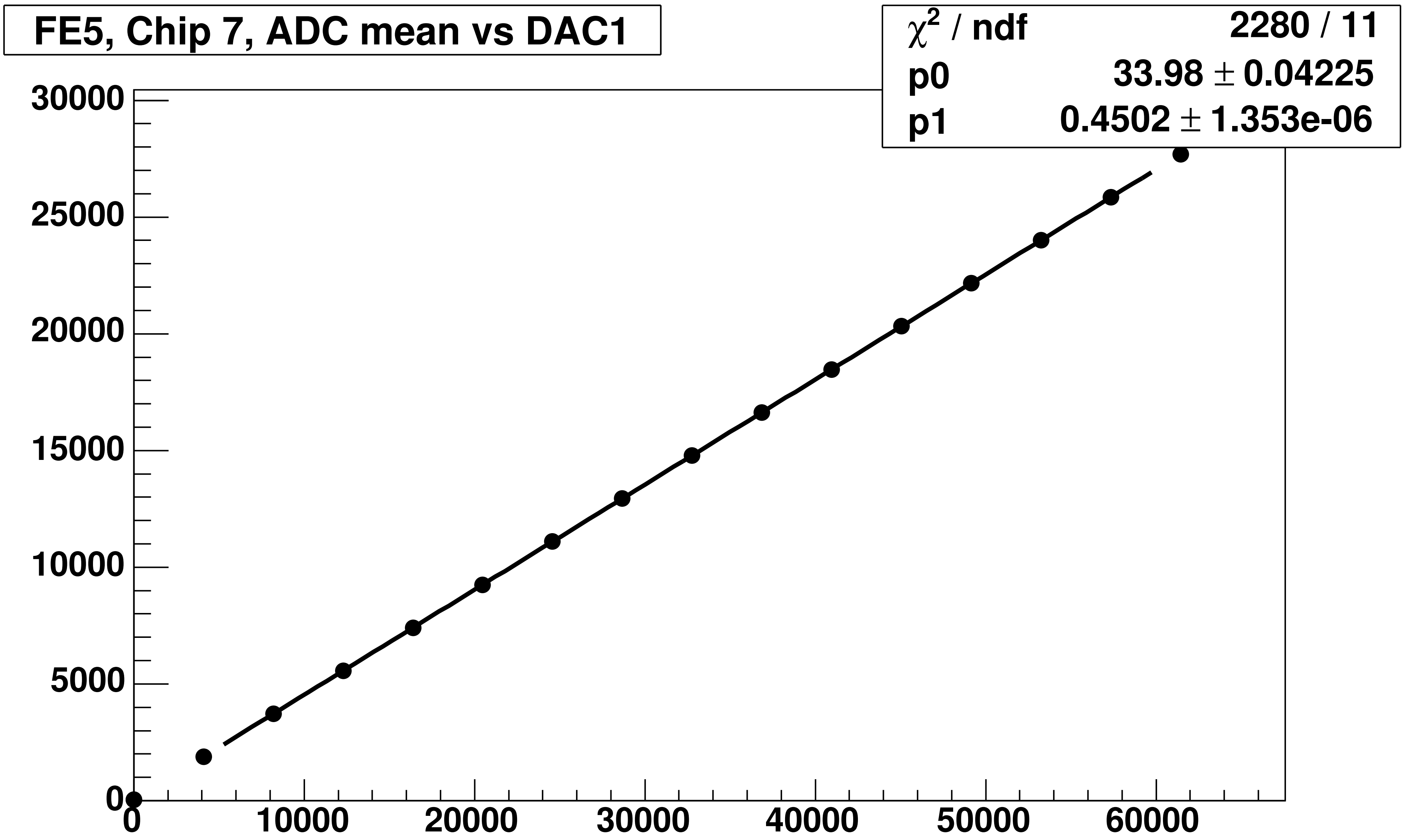
FE5, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



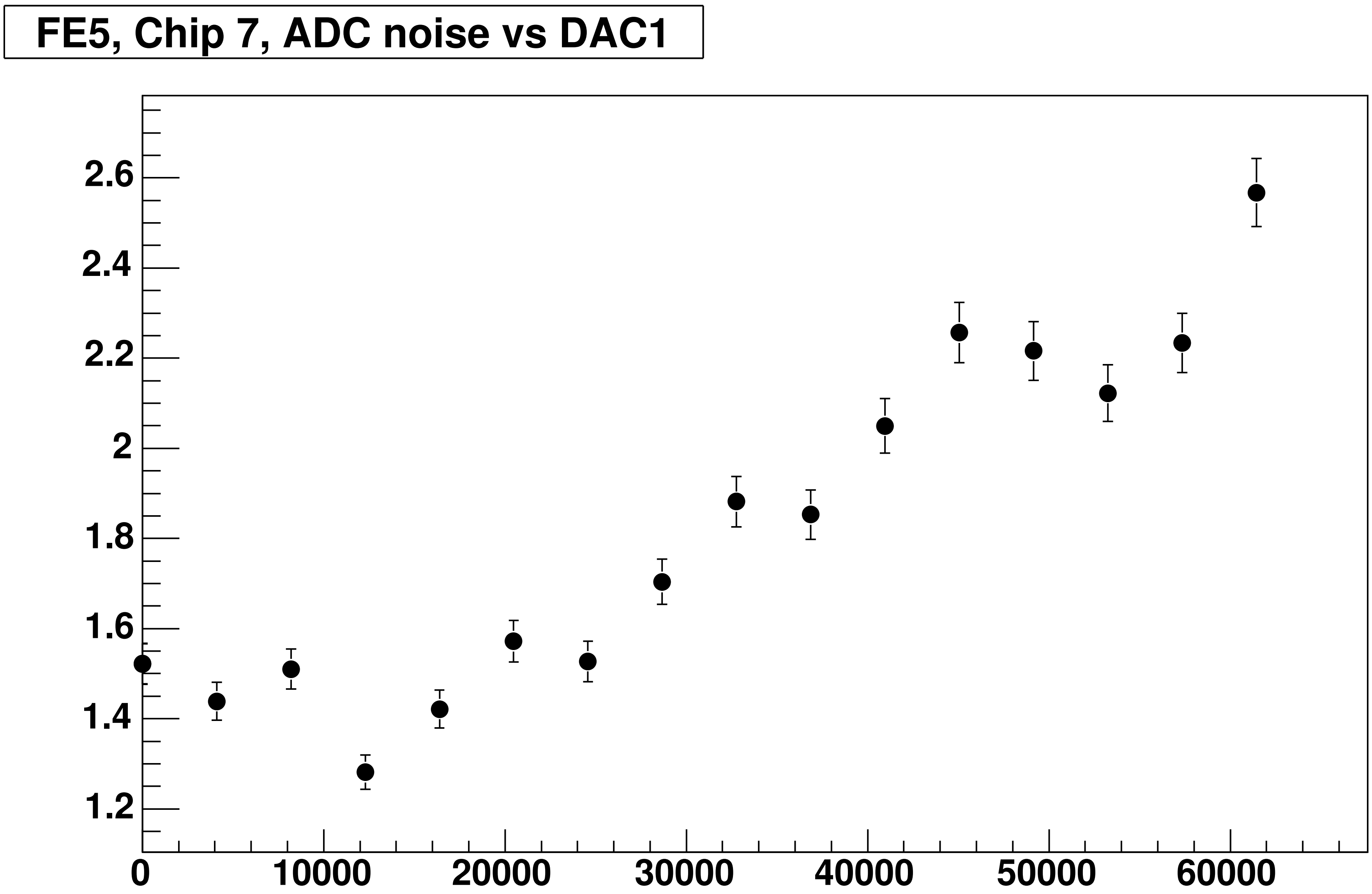
FE5, Chip 7, ADC mean vs DAC0
χ2 / ndf 16.82 / 11
p0 31.23 ± 0.03962
p1 -2.446e-06 ± 1.101e-06
31.5
31.4
31.3
31.2
31.1
31
30.9
0
10000
20000
30000
40000
50000
60000


FE5, Chip 7, ADC noise vs DAC0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

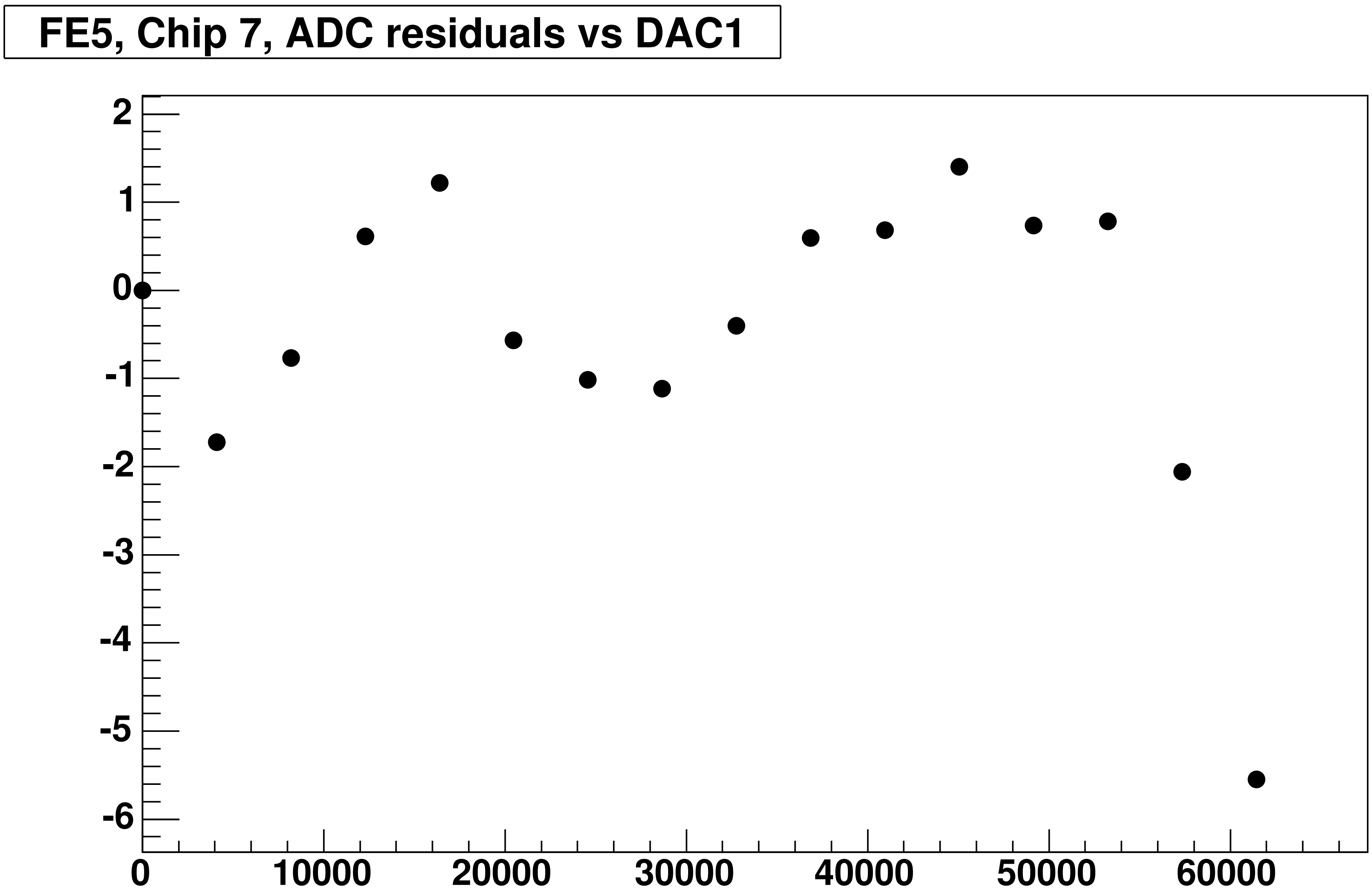

FE5, Chip 7, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

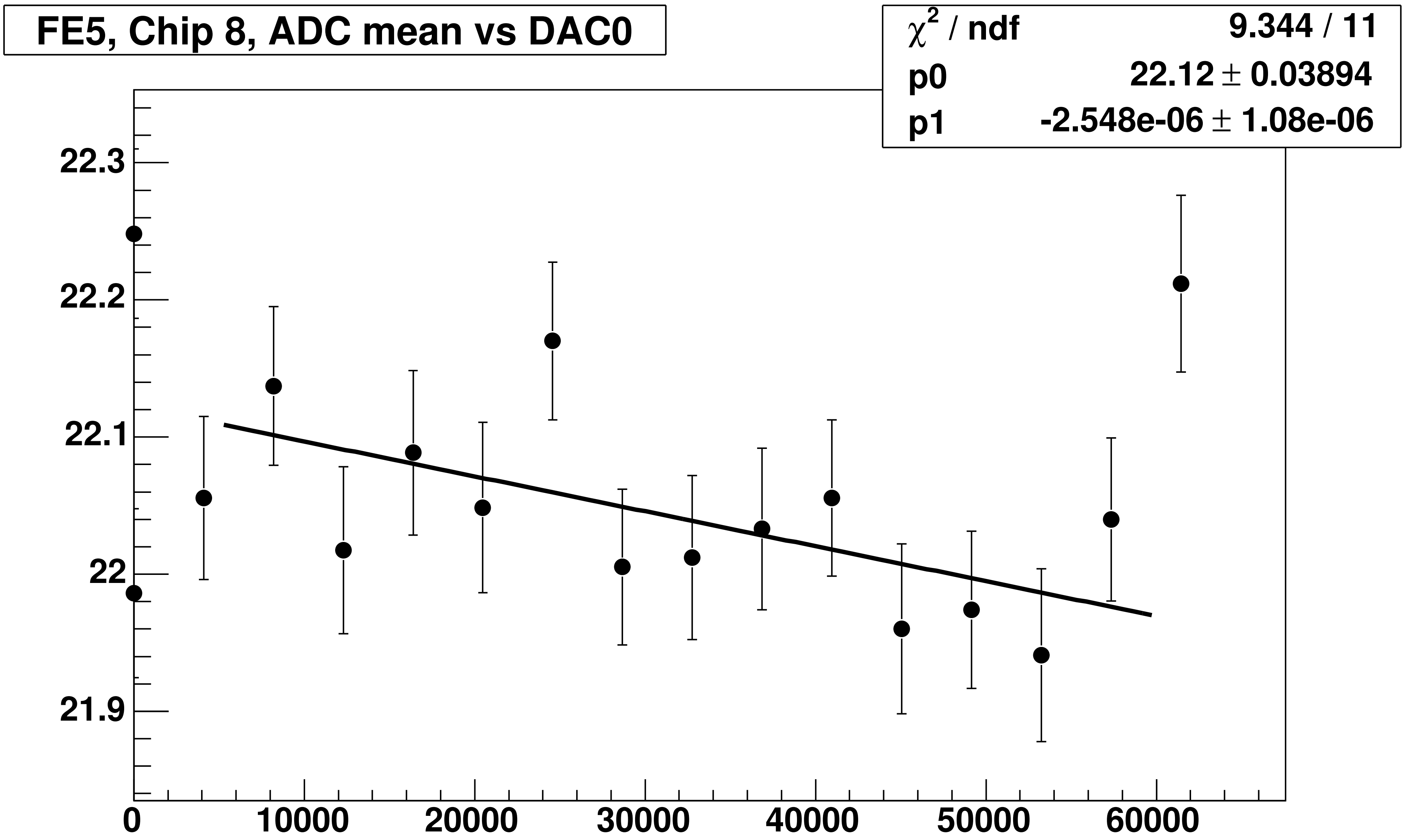


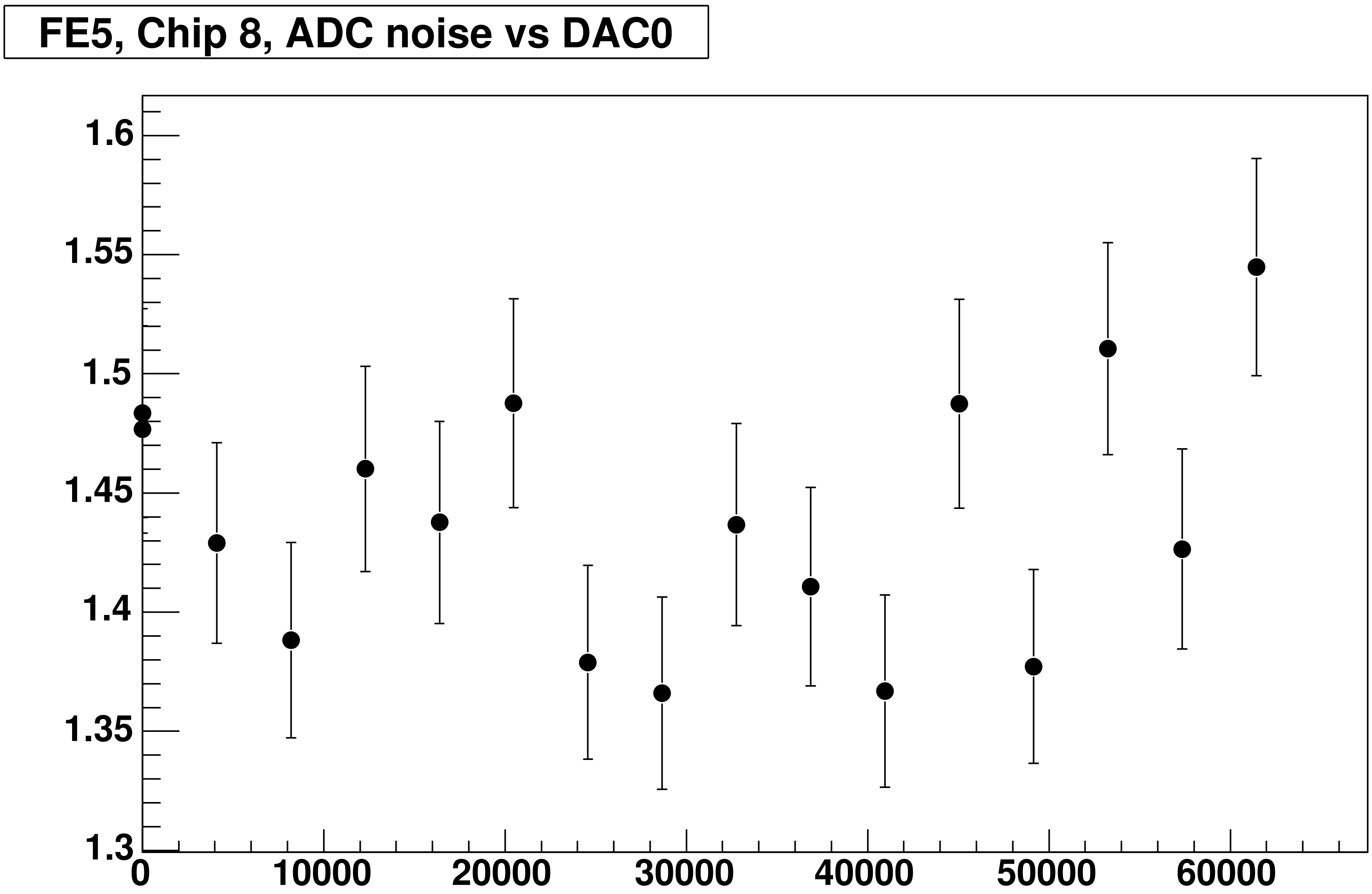
FE5, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2280 / 11
p0 33.98 ± 0.04225
p1 0.4502 ± 1.353e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



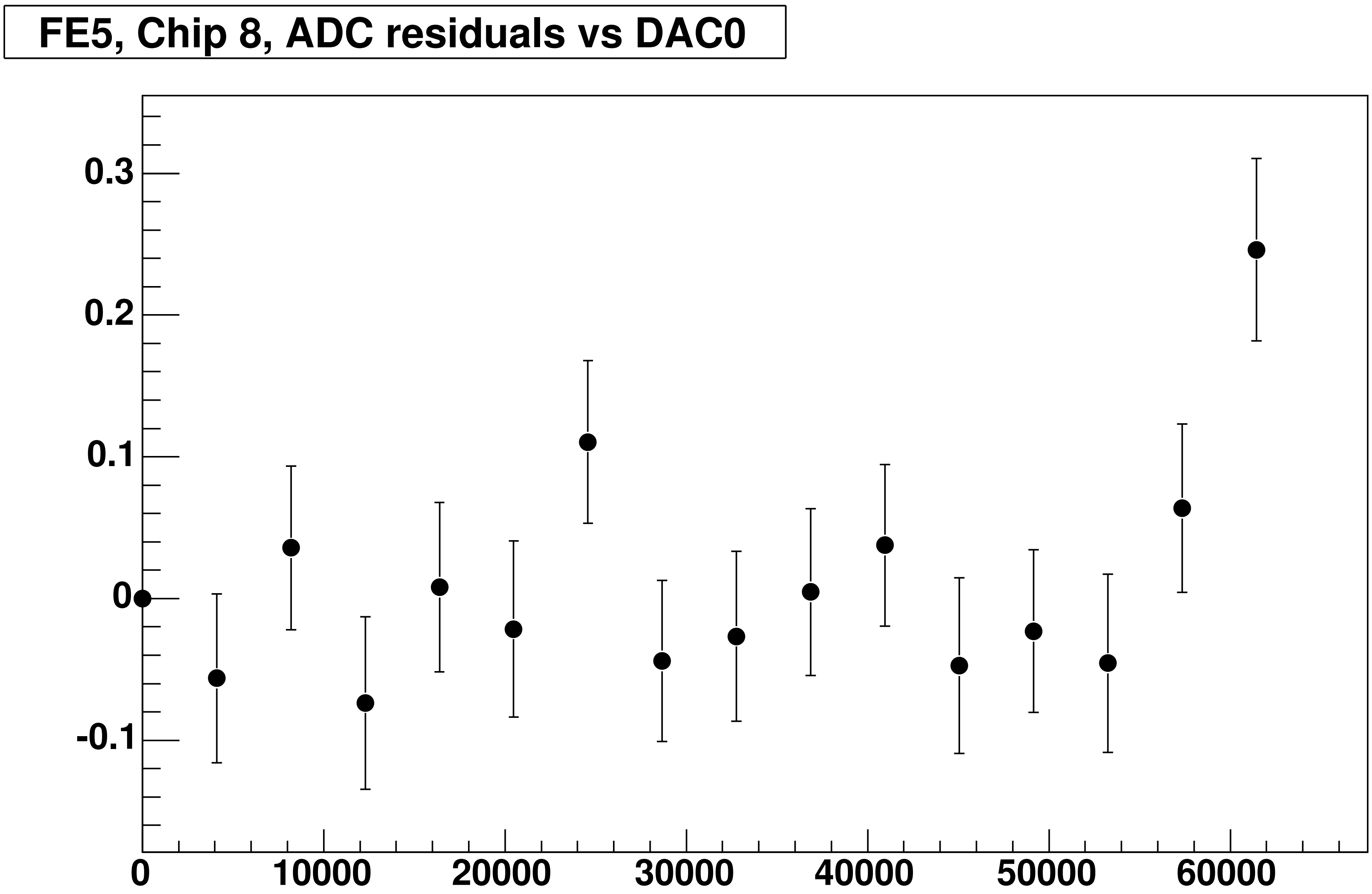
FE5, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

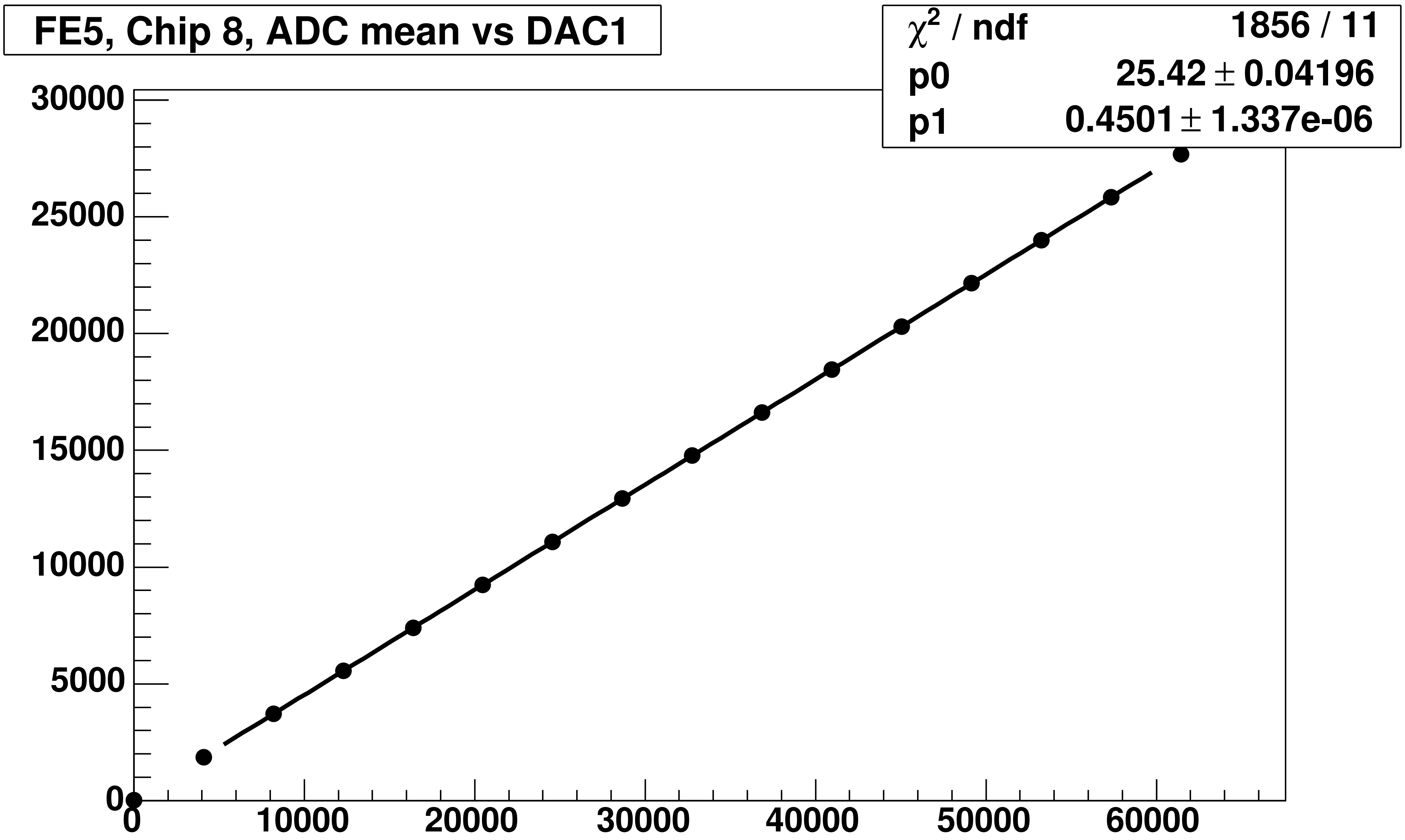

FE5, Chip 8, ADC mean vs DAC0
χ^2 / ndf 9.344 / 11
p0 22.12 ± 0.03894
p1 -2.548e-06 ± 1.08e-06
22.3
22.2
22.1
22
21.9
0
10000
20000
30000
40000
50000
60000



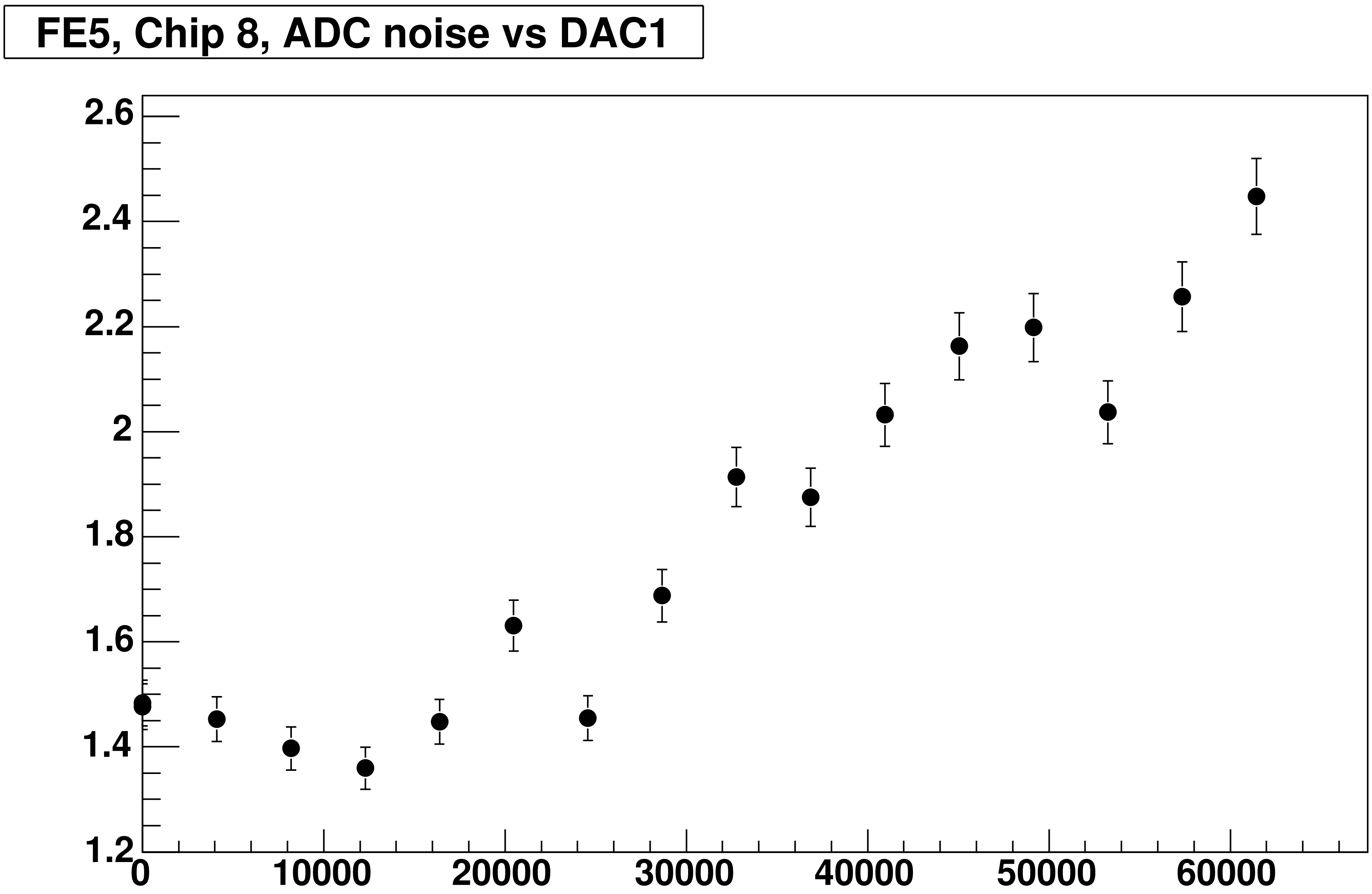
FE5, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



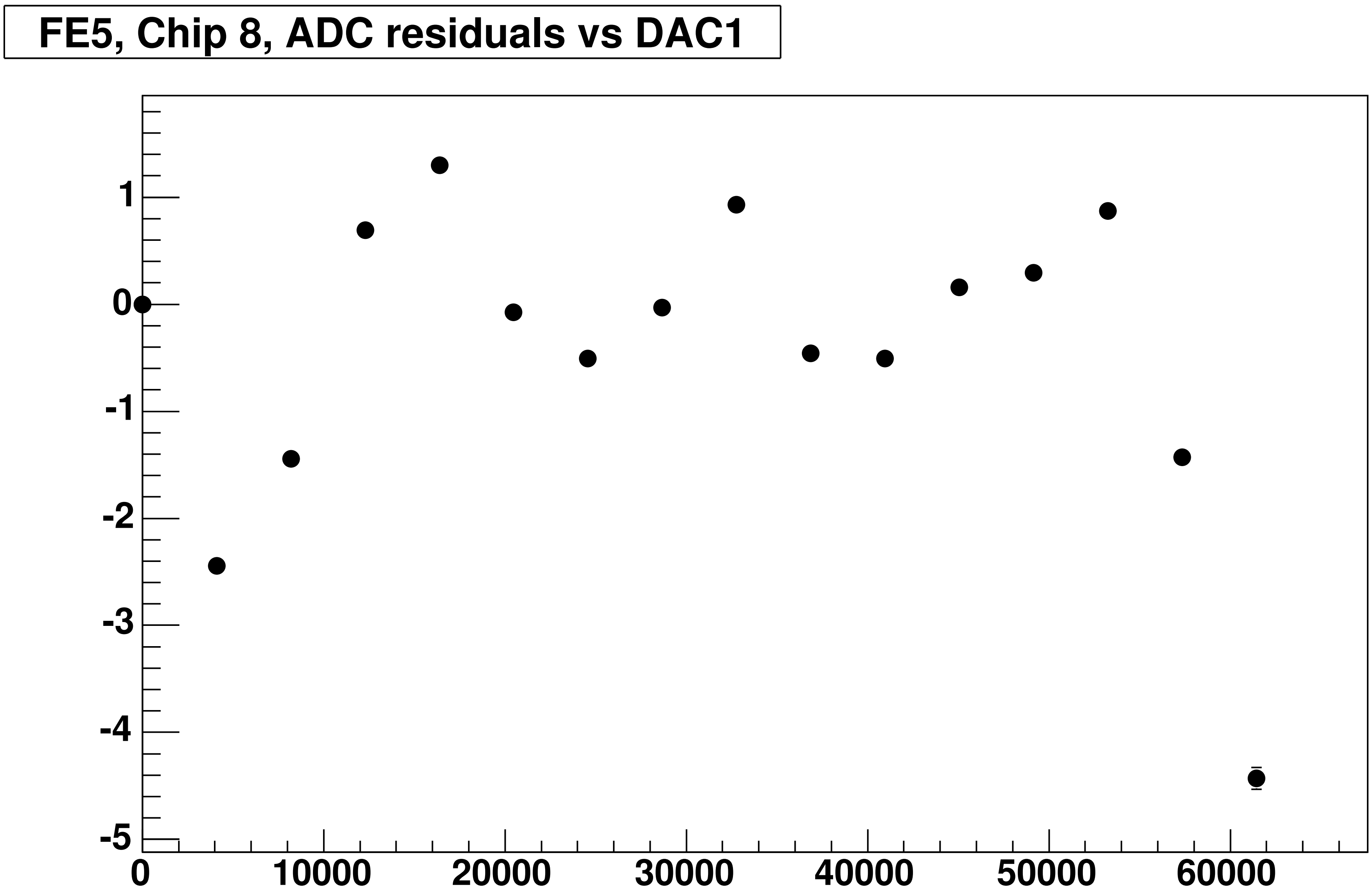
FE5, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
0
10000
20000
30000
40000
50000
60000



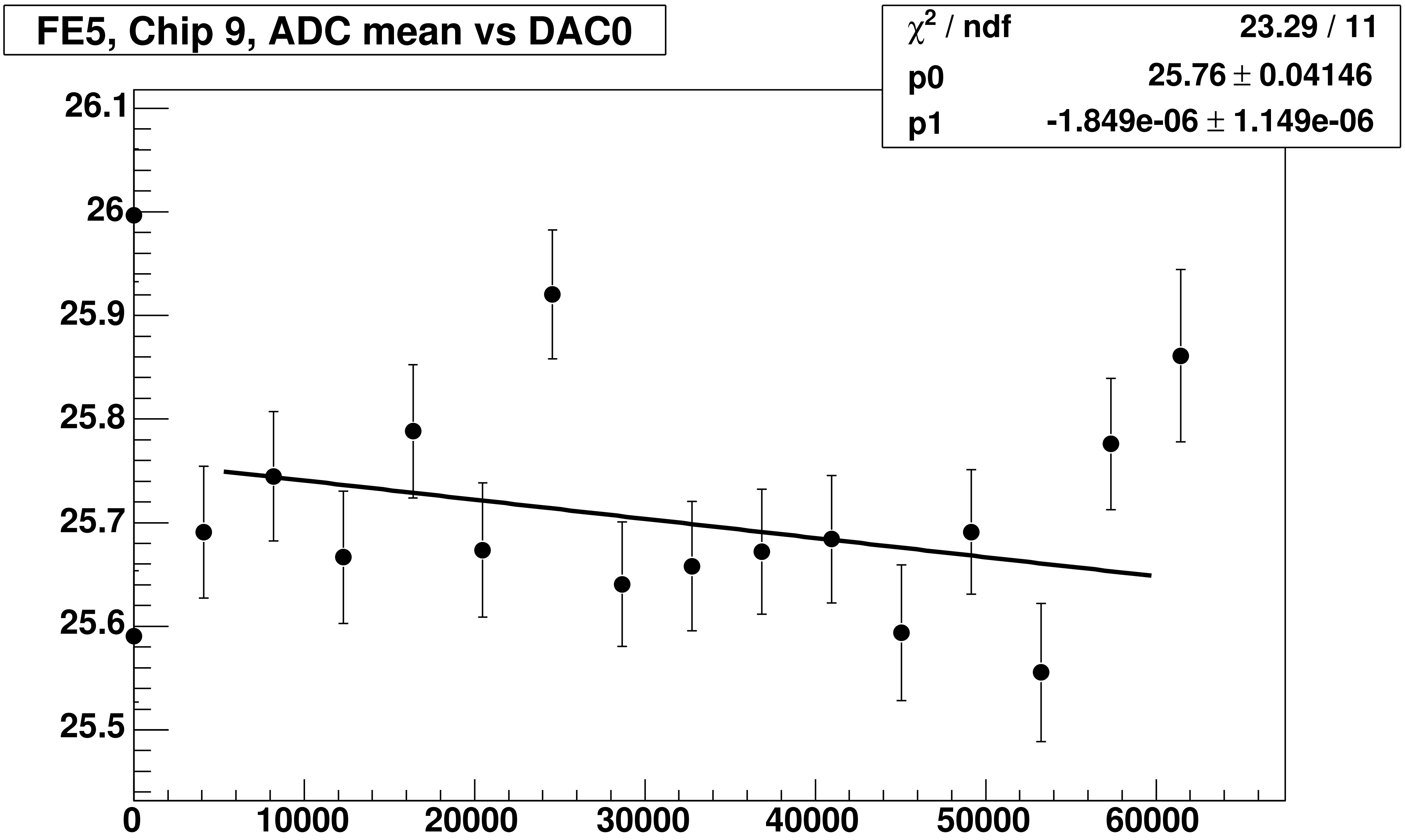
FE5, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1856 / 11
p0 25.42 ± 0.04196
p1 0.4501 ± 1.337e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



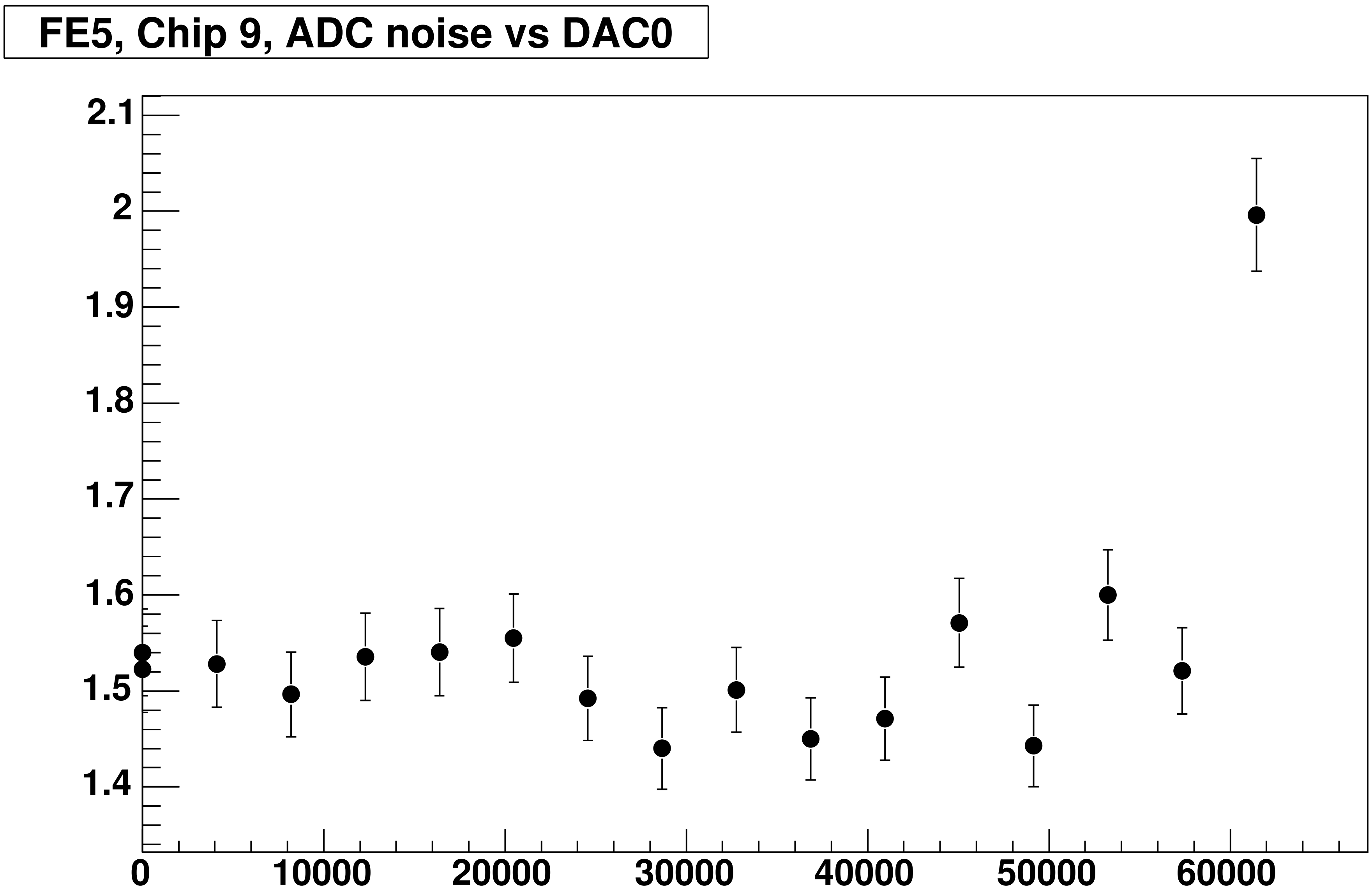
FE5, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

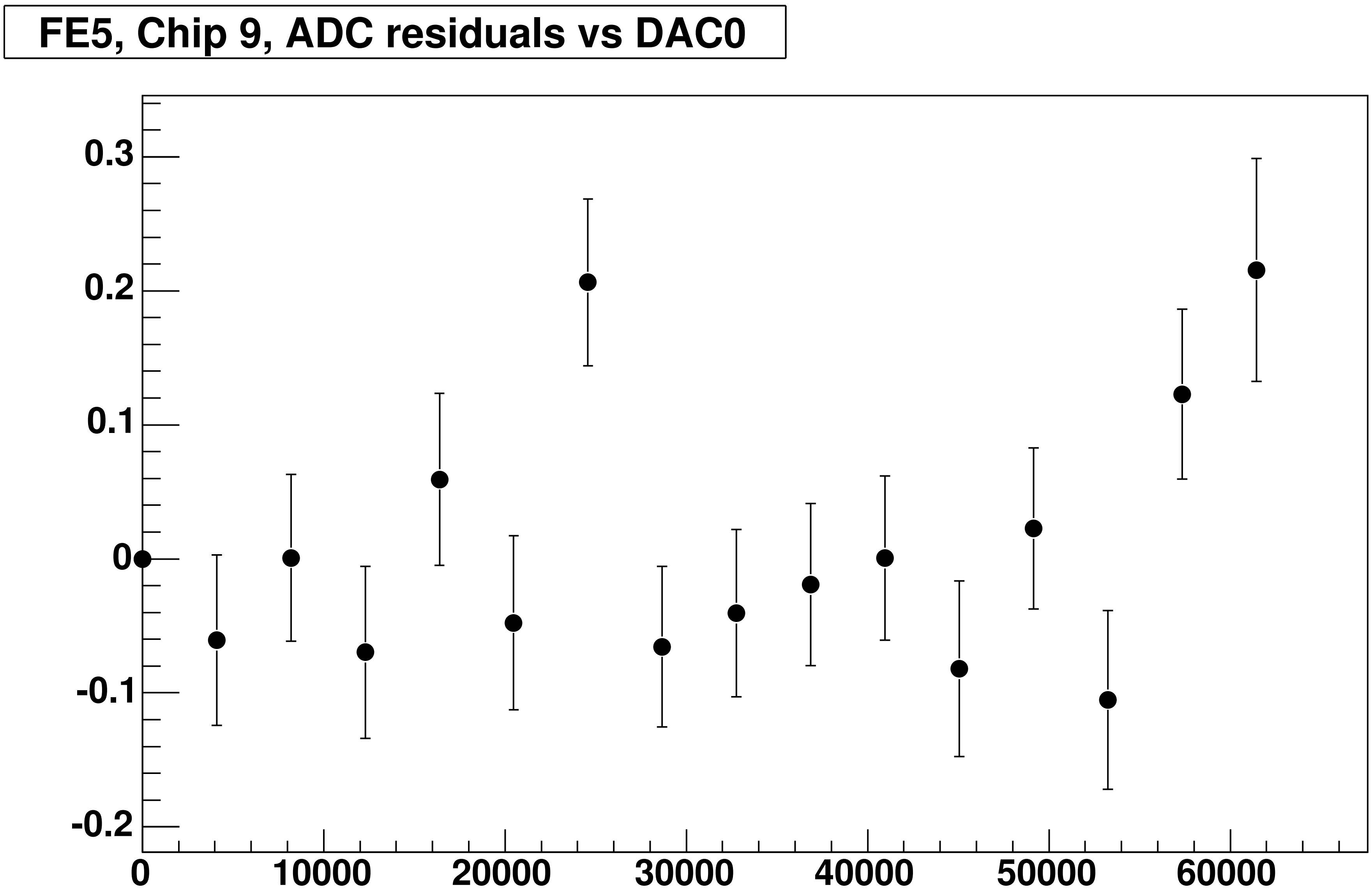


FE5, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

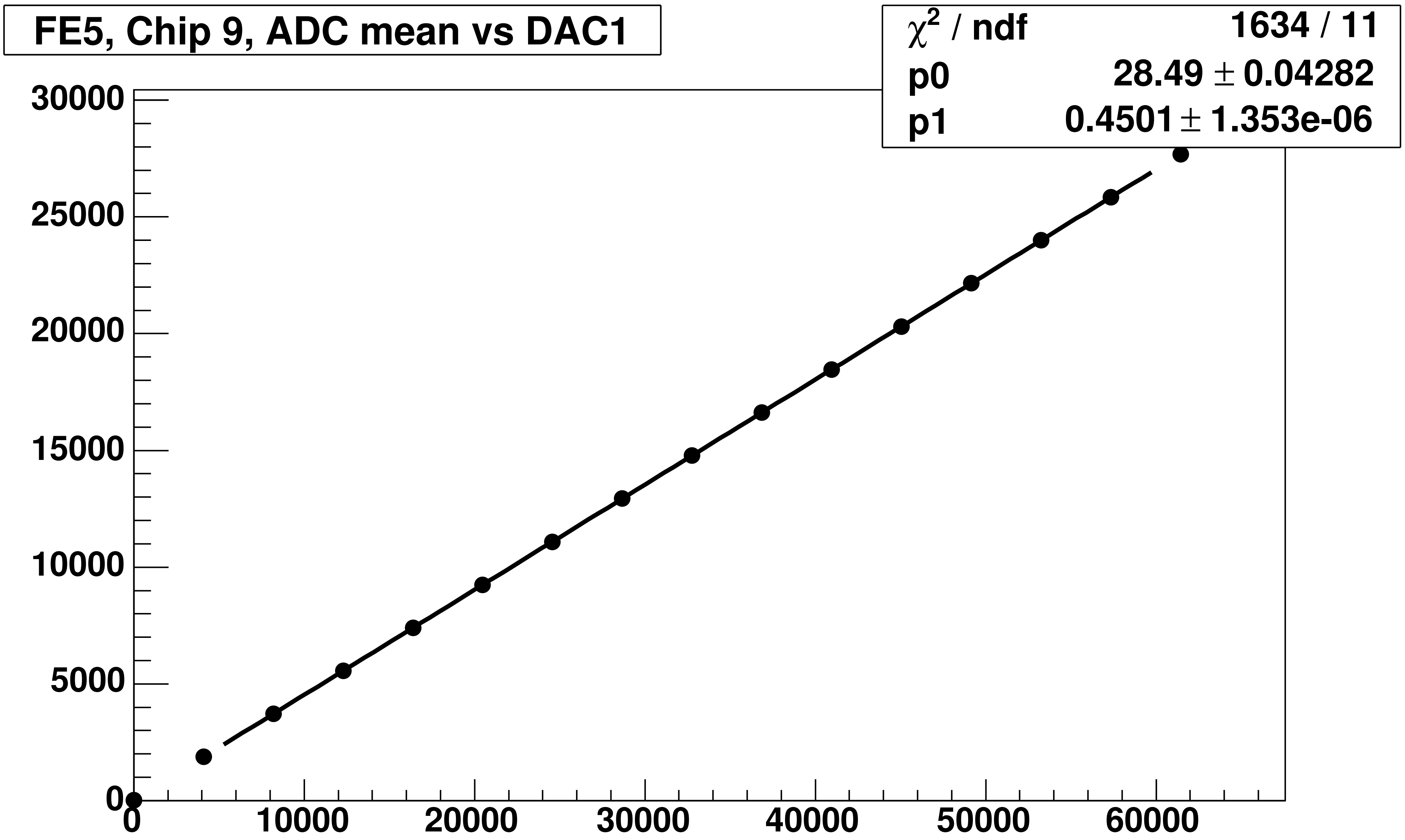


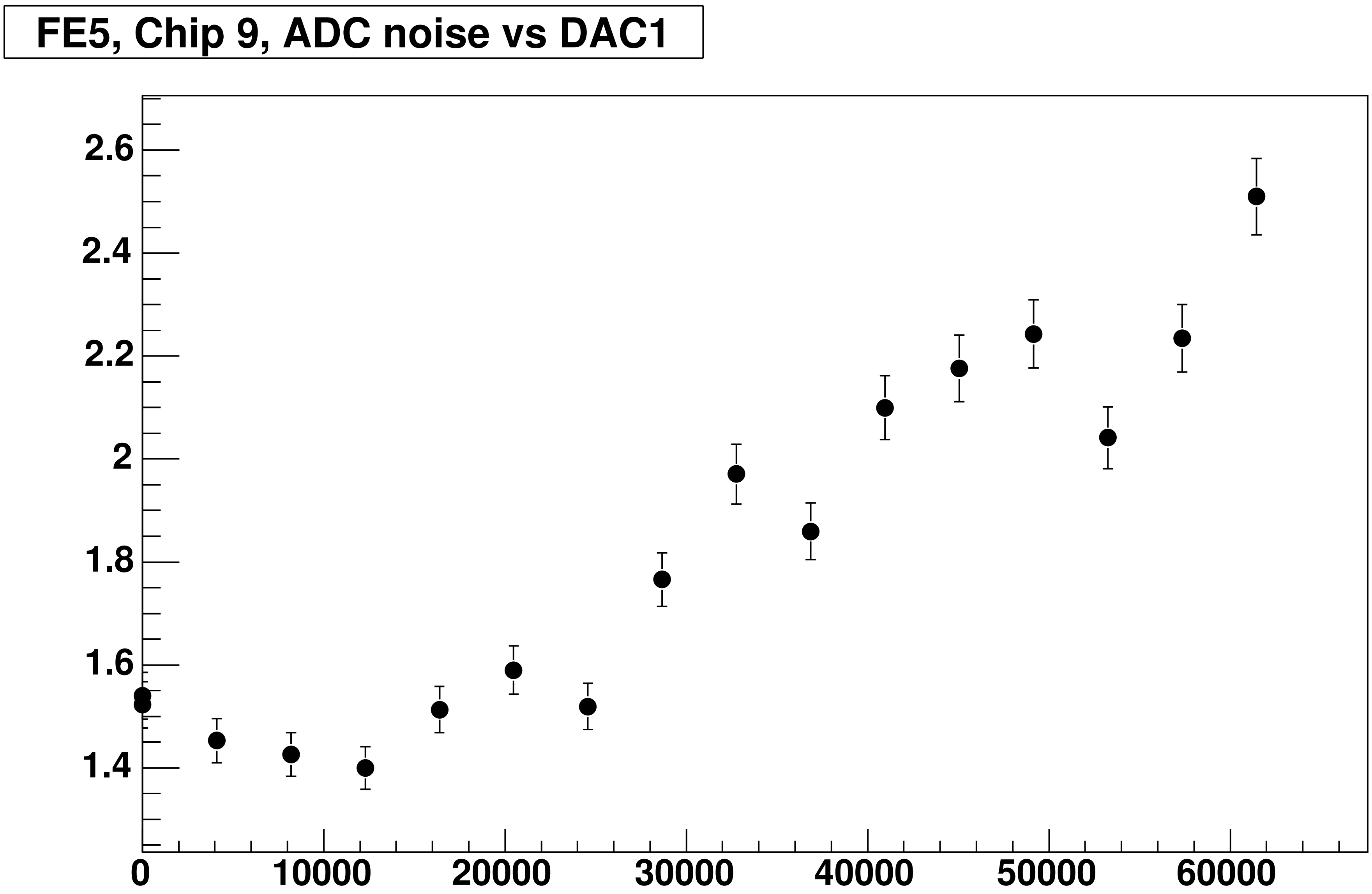
FE5, Chip 9, ADC mean vs DAC0
χ² / ndf 23.29 / 11
p0 25.76 ± 0.04146
p1 -1.849e-06 ± 1.149e-06
26.1
26
25.9
25.8
25.7
25.6
25.5
0
10000
20000
30000
40000
50000
60000

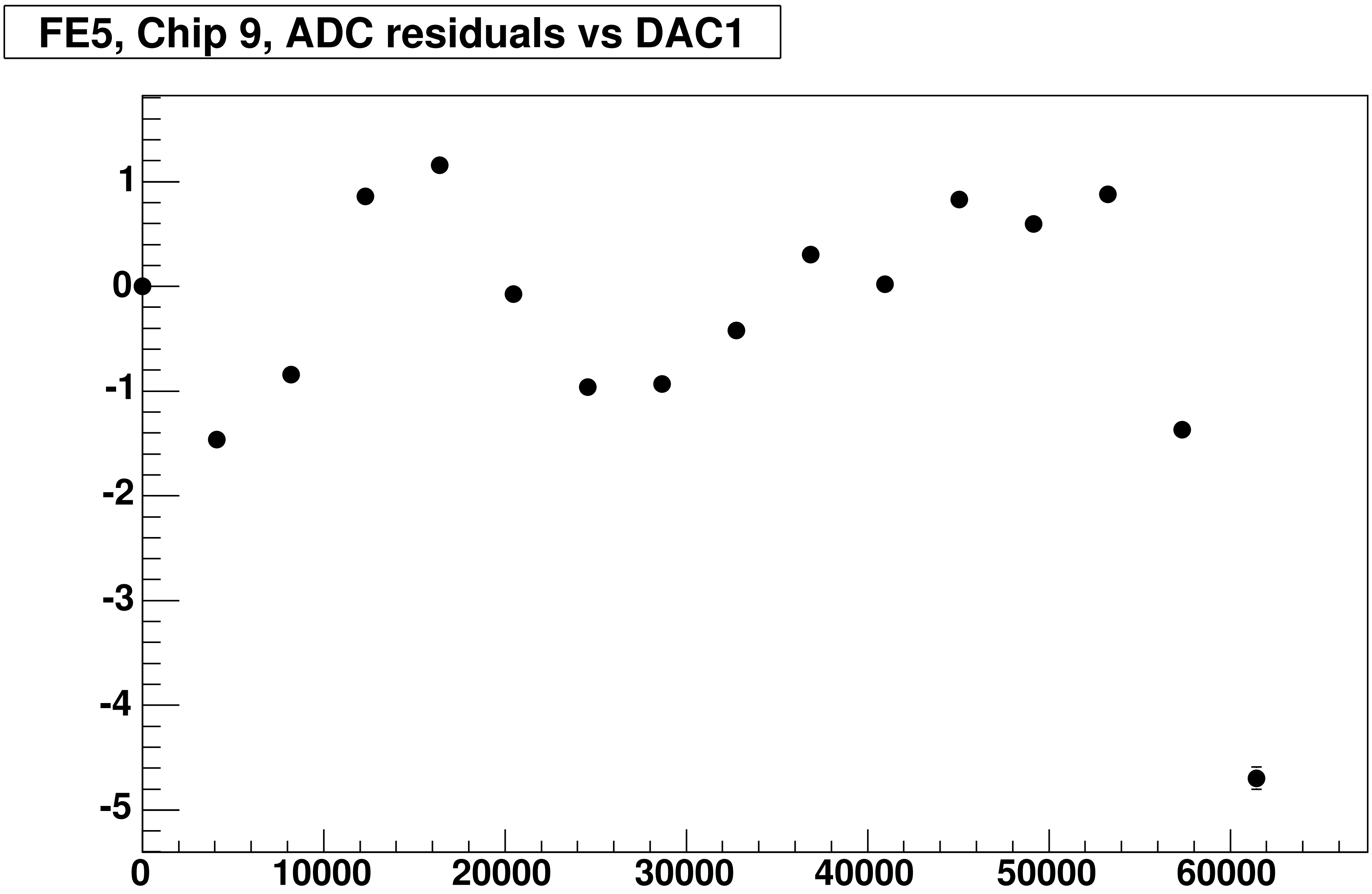

FE5, Chip 9, ADC noise vs DAC0
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000

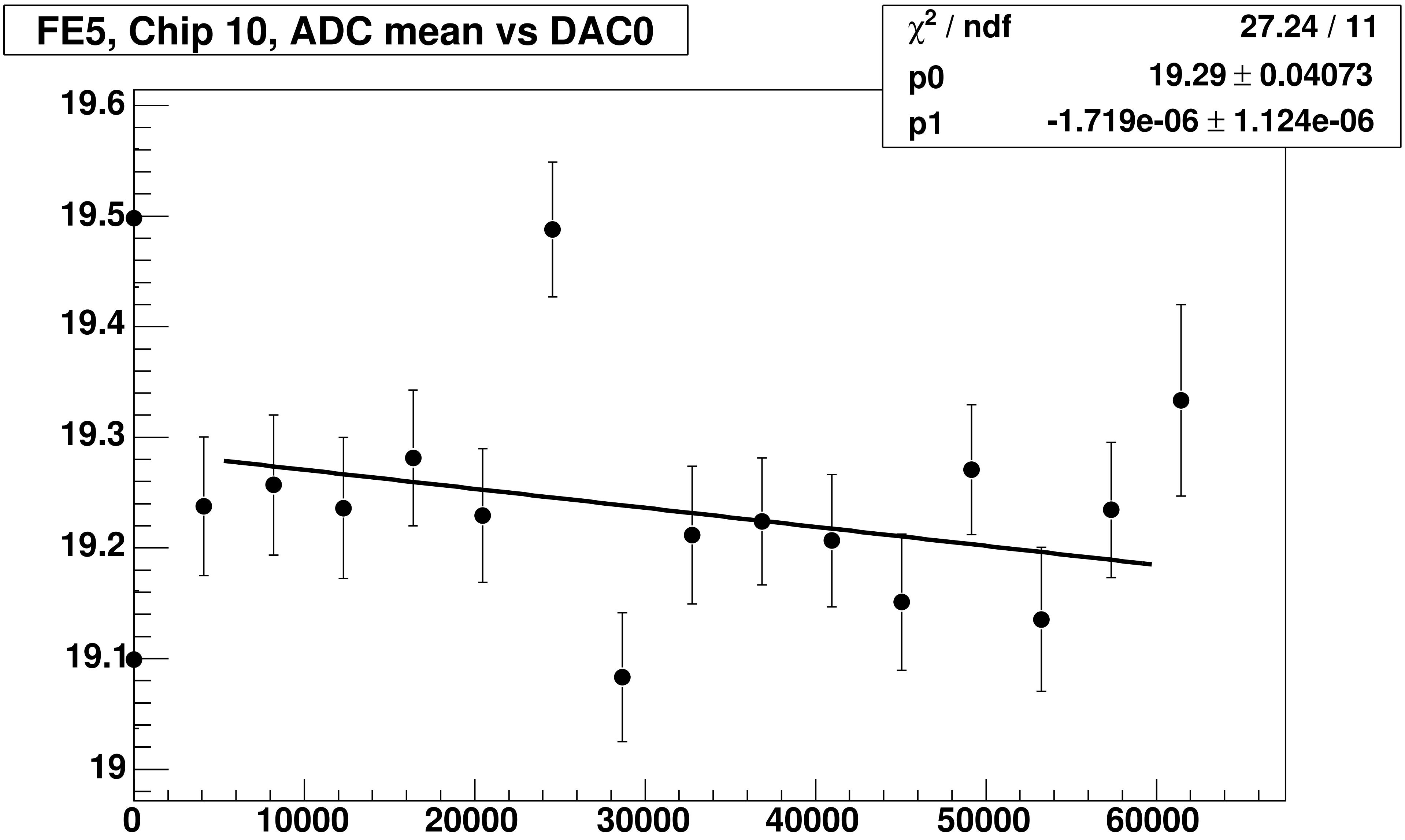


FE5, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

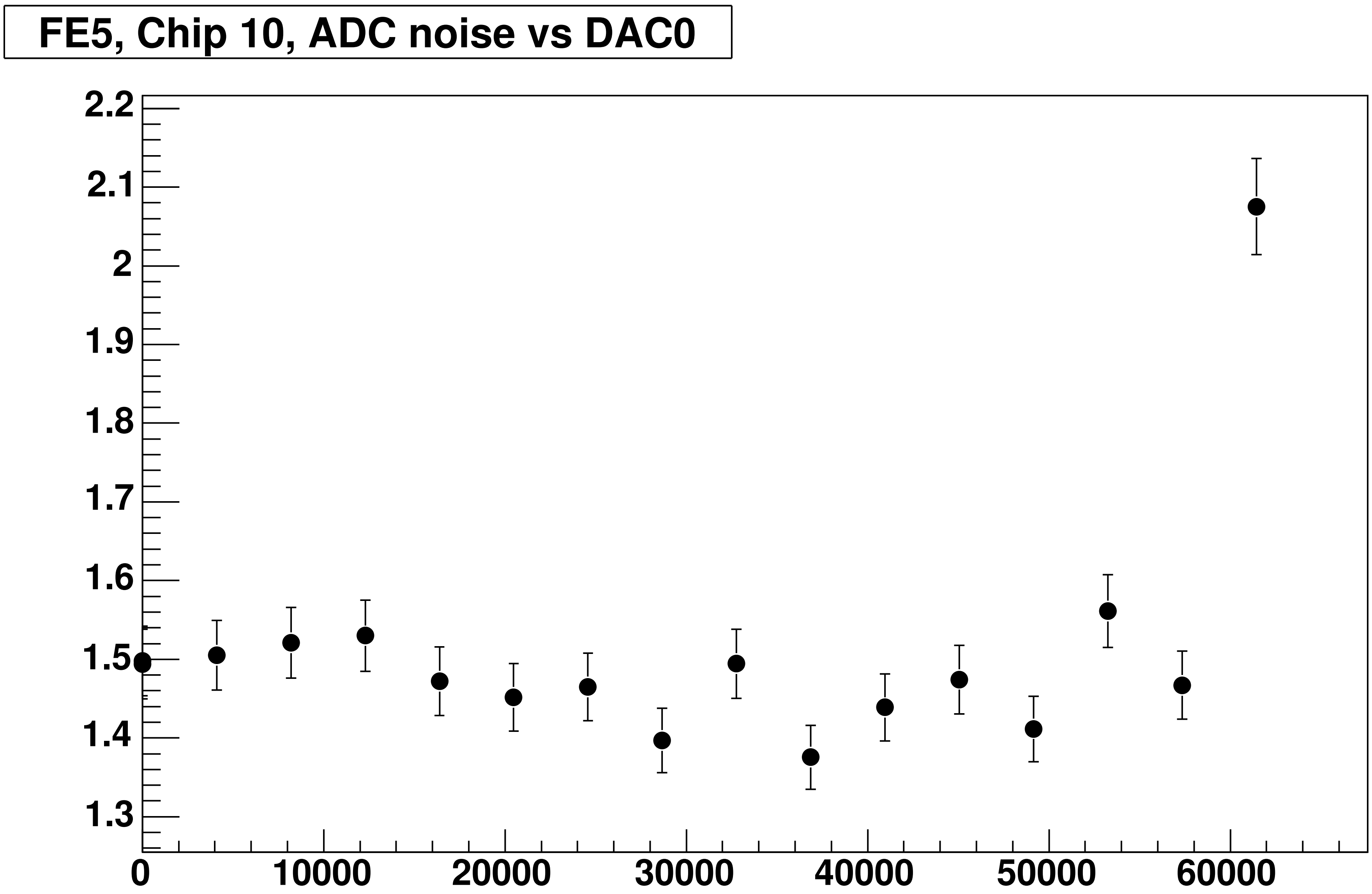

FE5, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1634 / 11
p0 28.49 ± 0.04282
p1 0.4501 ± 1.353e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

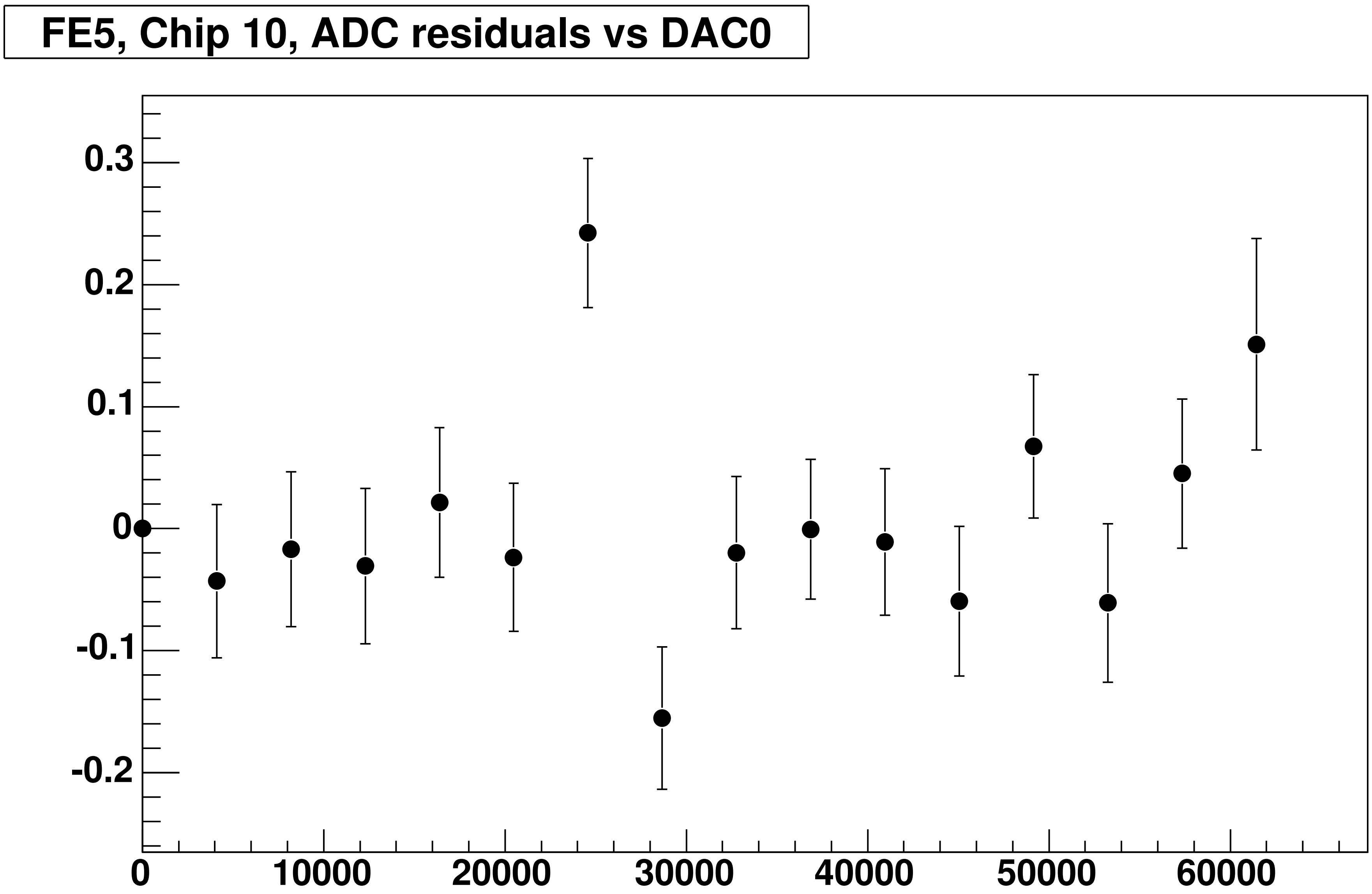

FE5, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

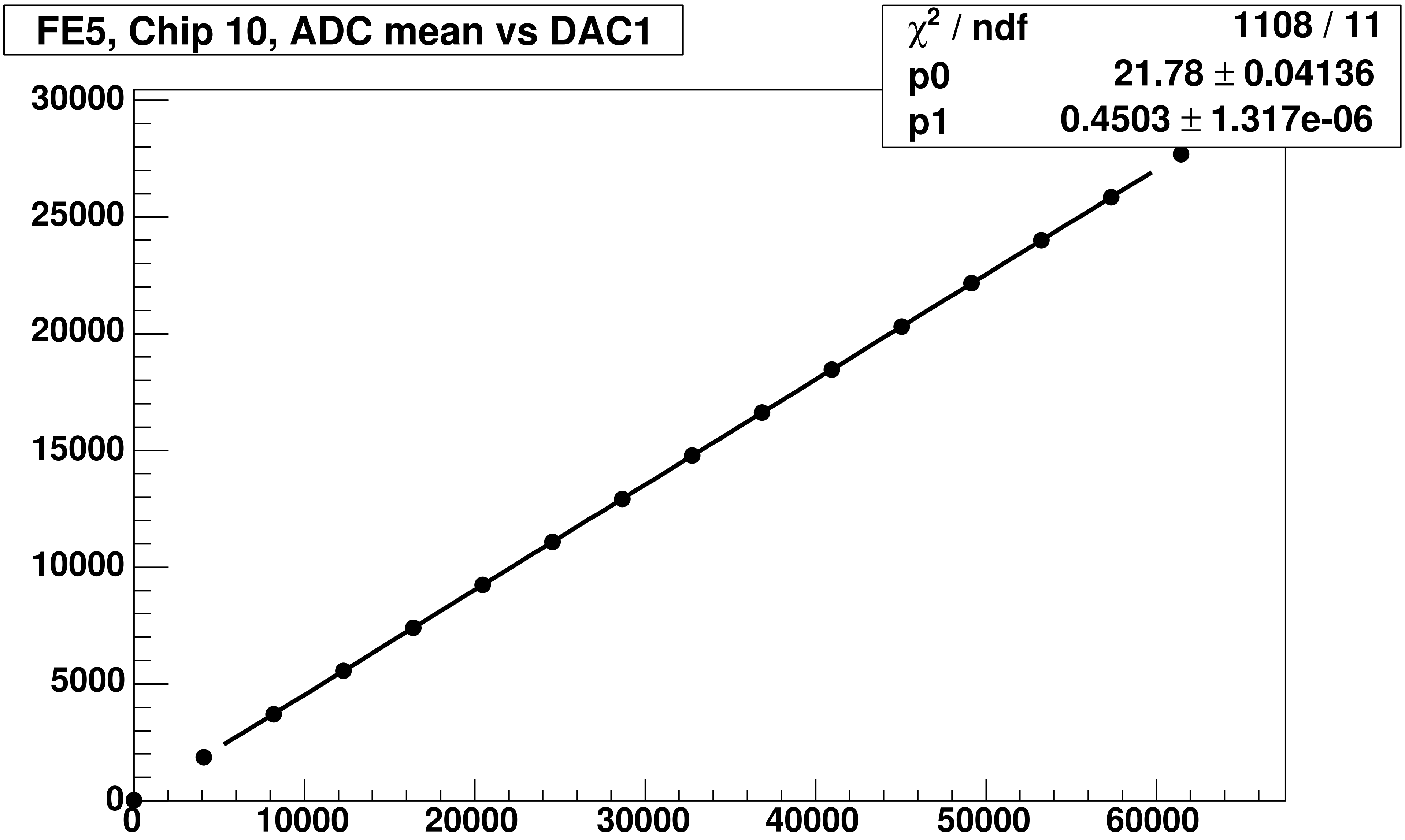


FE5, Chip 10, ADC mean vs DAC0
χ^2 / ndf 27.24 / 11
p0 19.29 ± 0.04073
p1 -1.719e-06 ± 1.124e-06
19.6
19.5
19.4
19.3
19.2
19.1
19
0
10000
20000
30000
40000
50000
60000

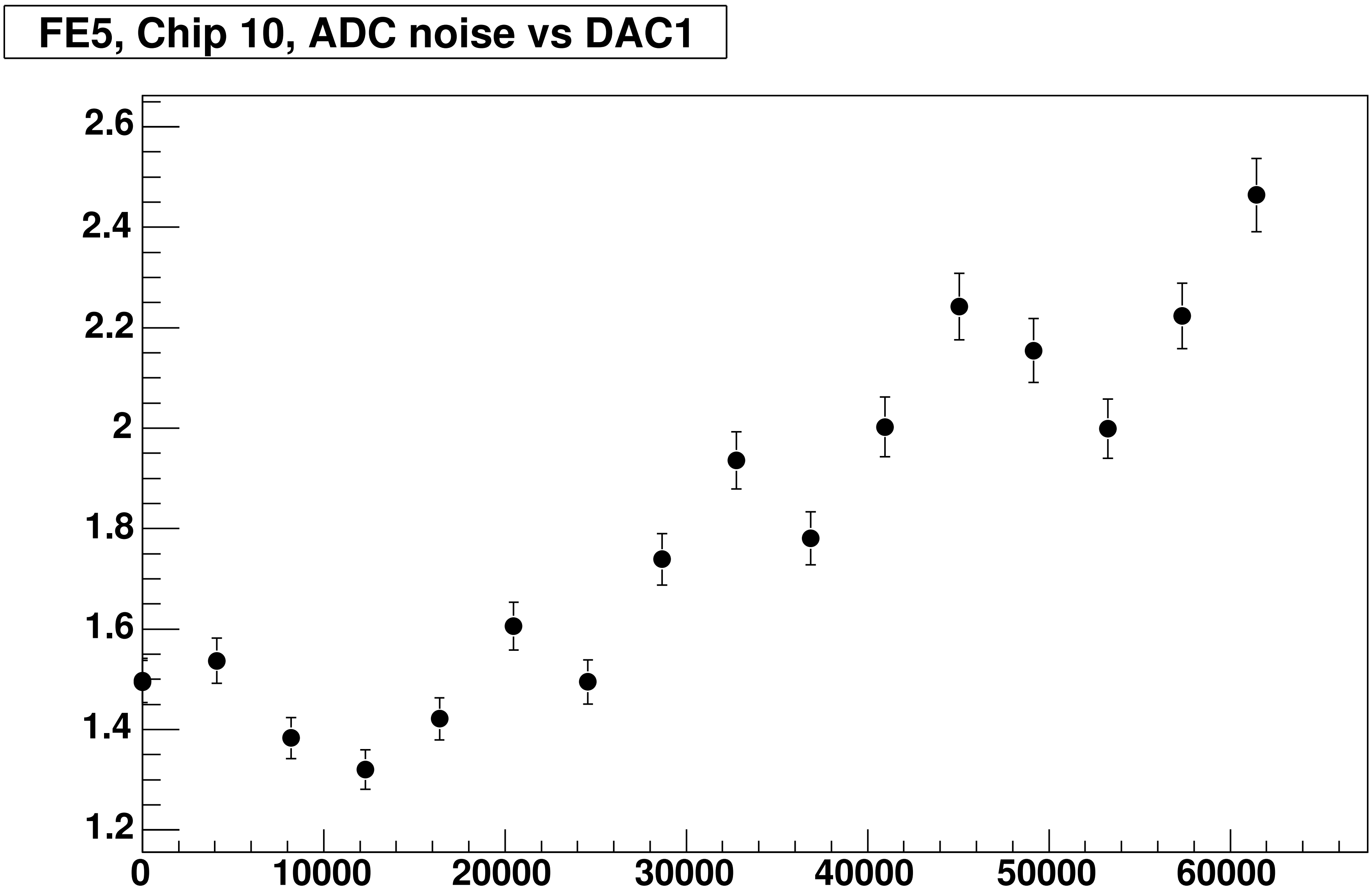

FE5, Chip 10, ADC noise vs DAC0
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

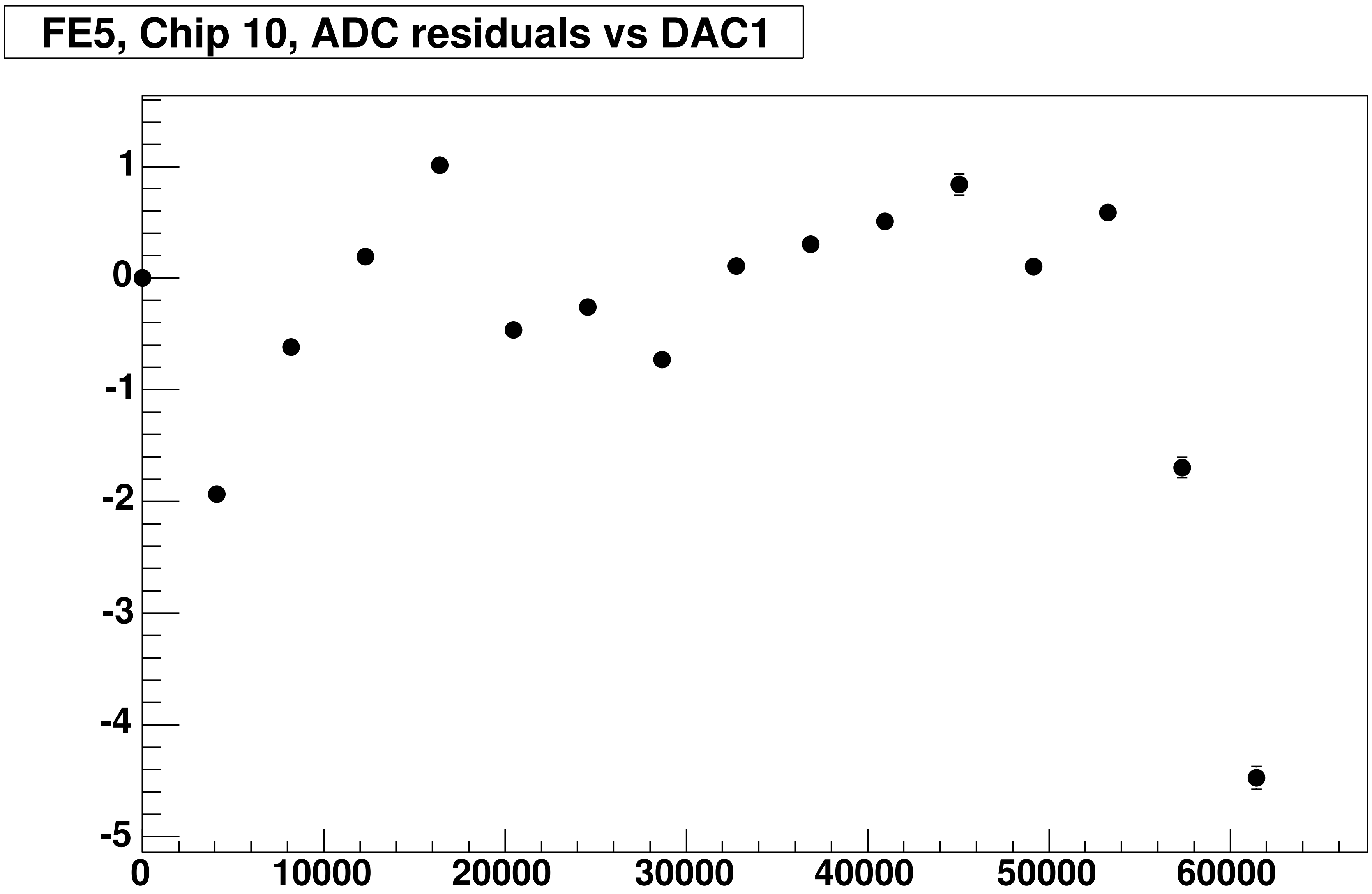


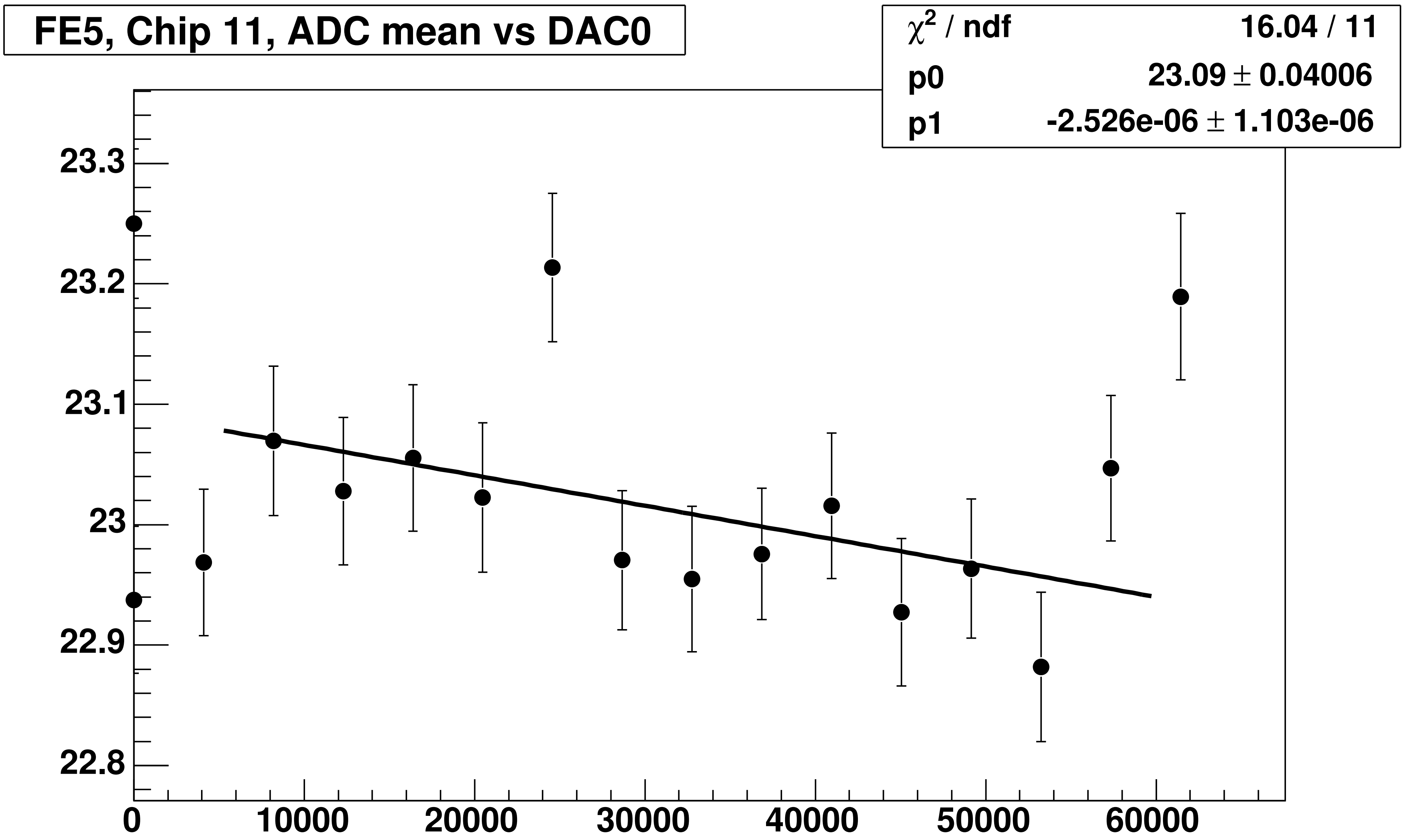
FE5, Chip 10, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



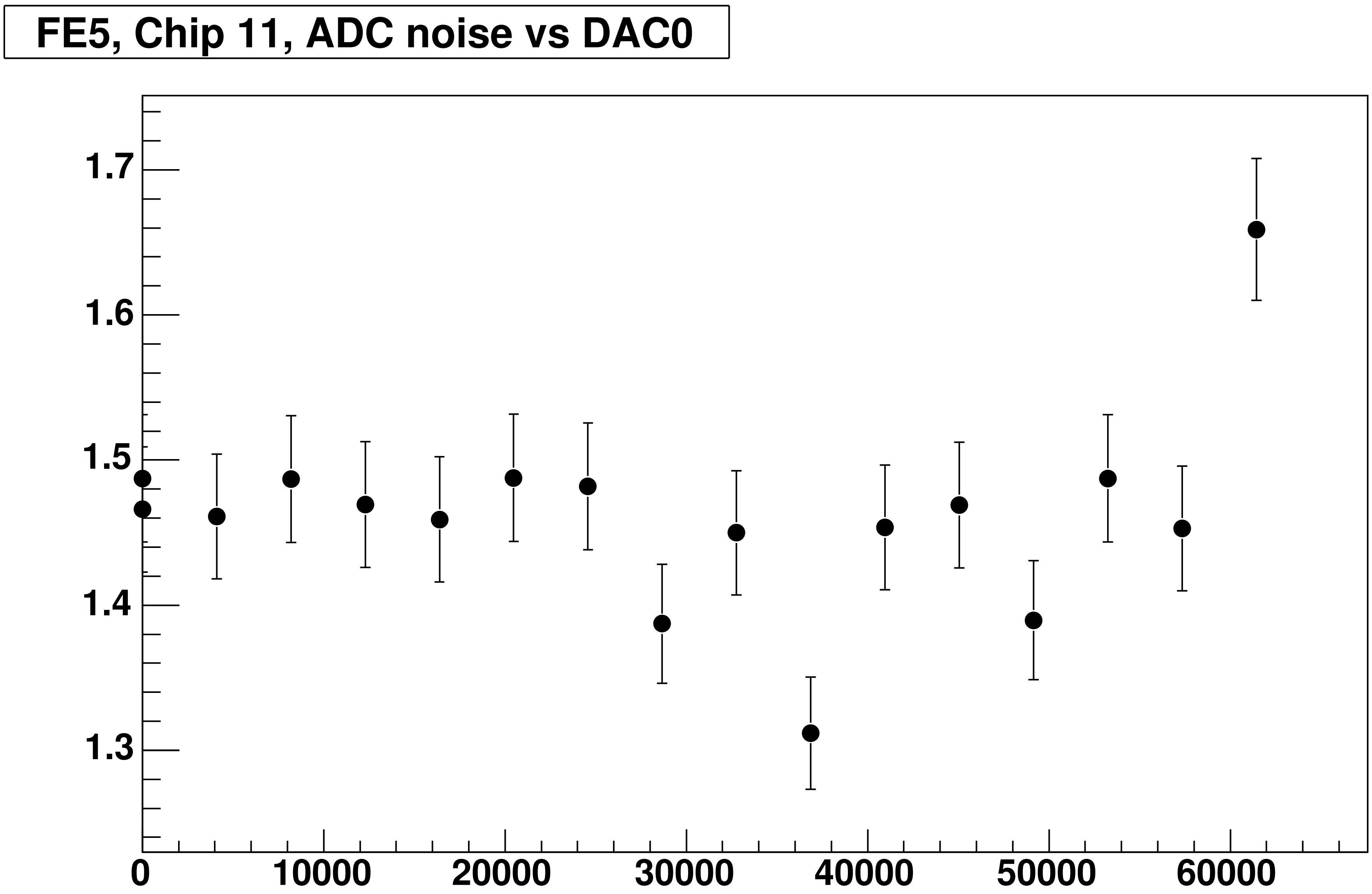
FE5, Chip 10, ADC mean vs DAC1
χ² / ndf 1108 / 11
p0 21.78 ± 0.04136
p1 0.4503 ± 1.317e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

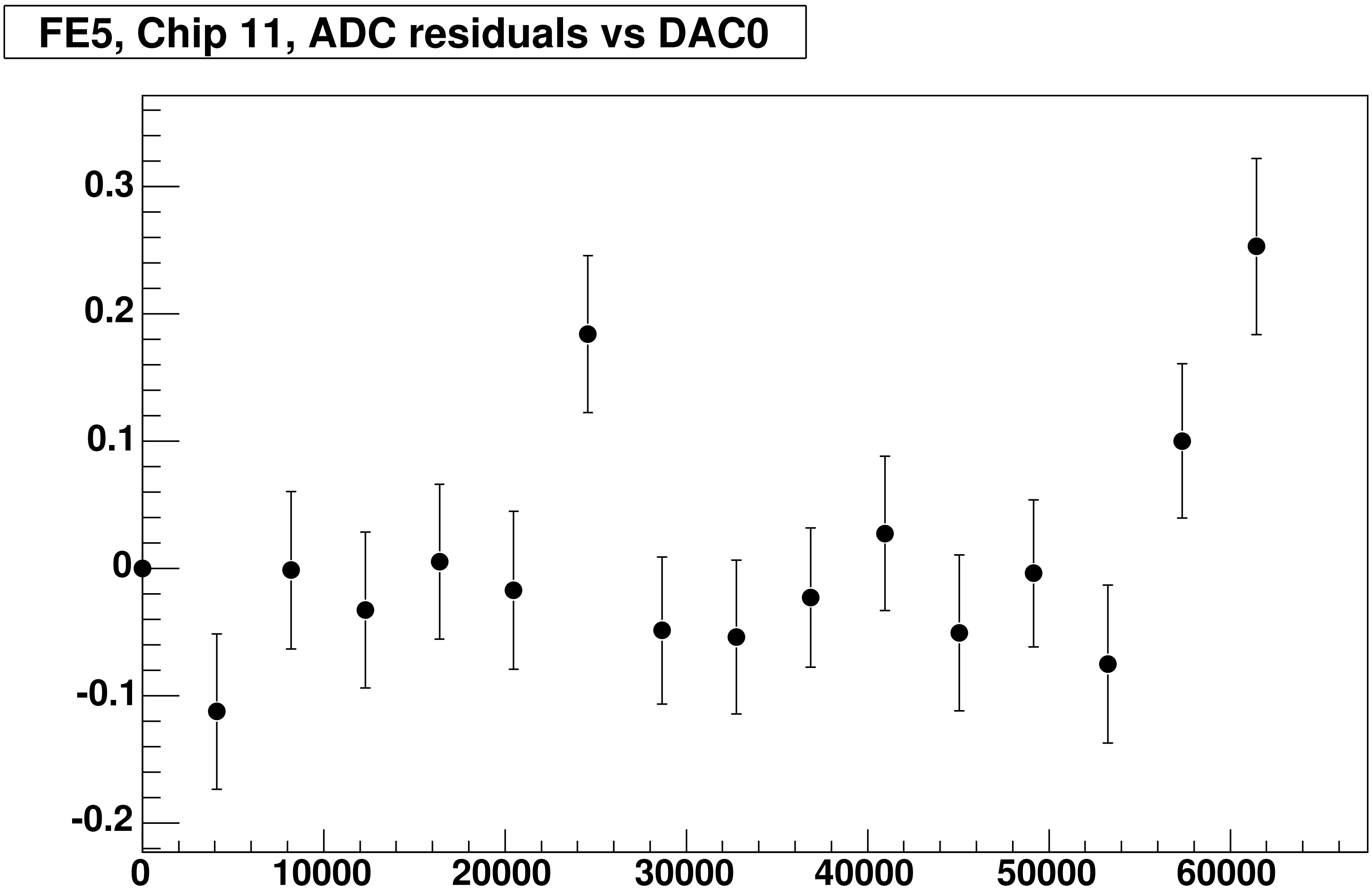

FE5, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

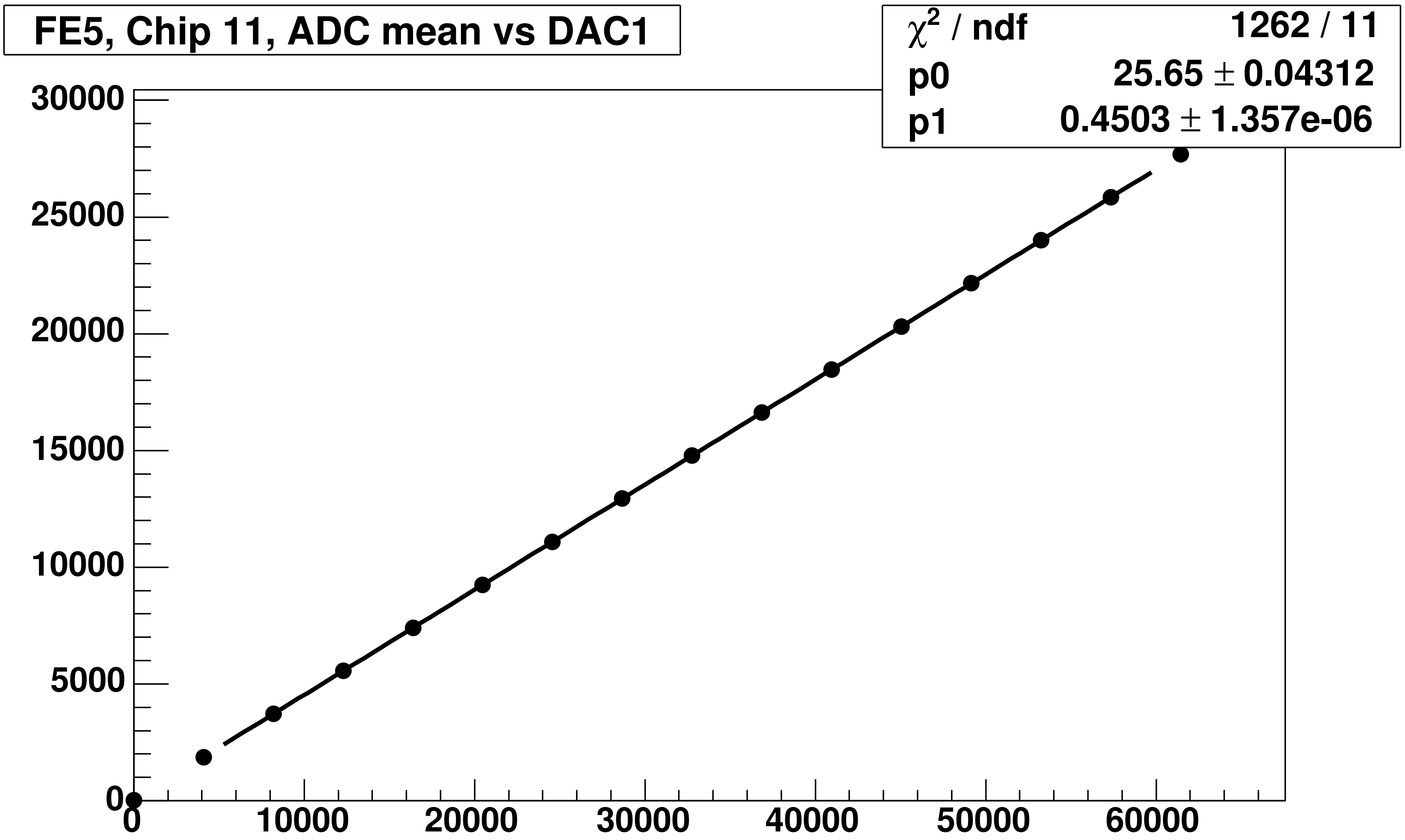


FE5, Chip 11, ADC mean vs DAC0
χ^2 / ndf 16.04 / 11
p0 23.09 ± 0.04006
p1 -2.526e-06 ± 1.103e-06
23.3
23.2
23.1
23
22.9
22.8
0
10000
20000
30000
40000
50000
60000

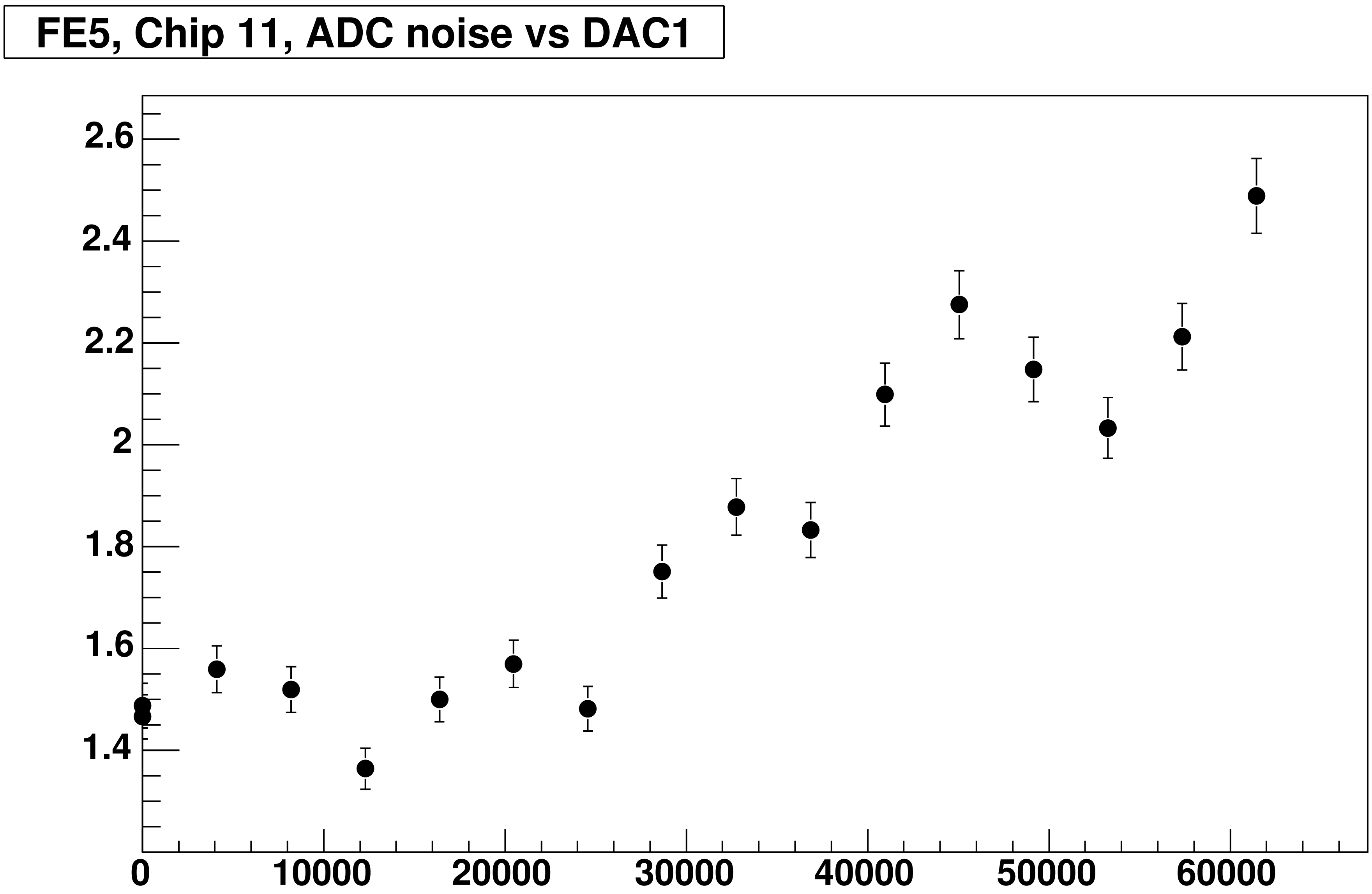

FE5, Chip 11, ADC noise vs DAC0
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

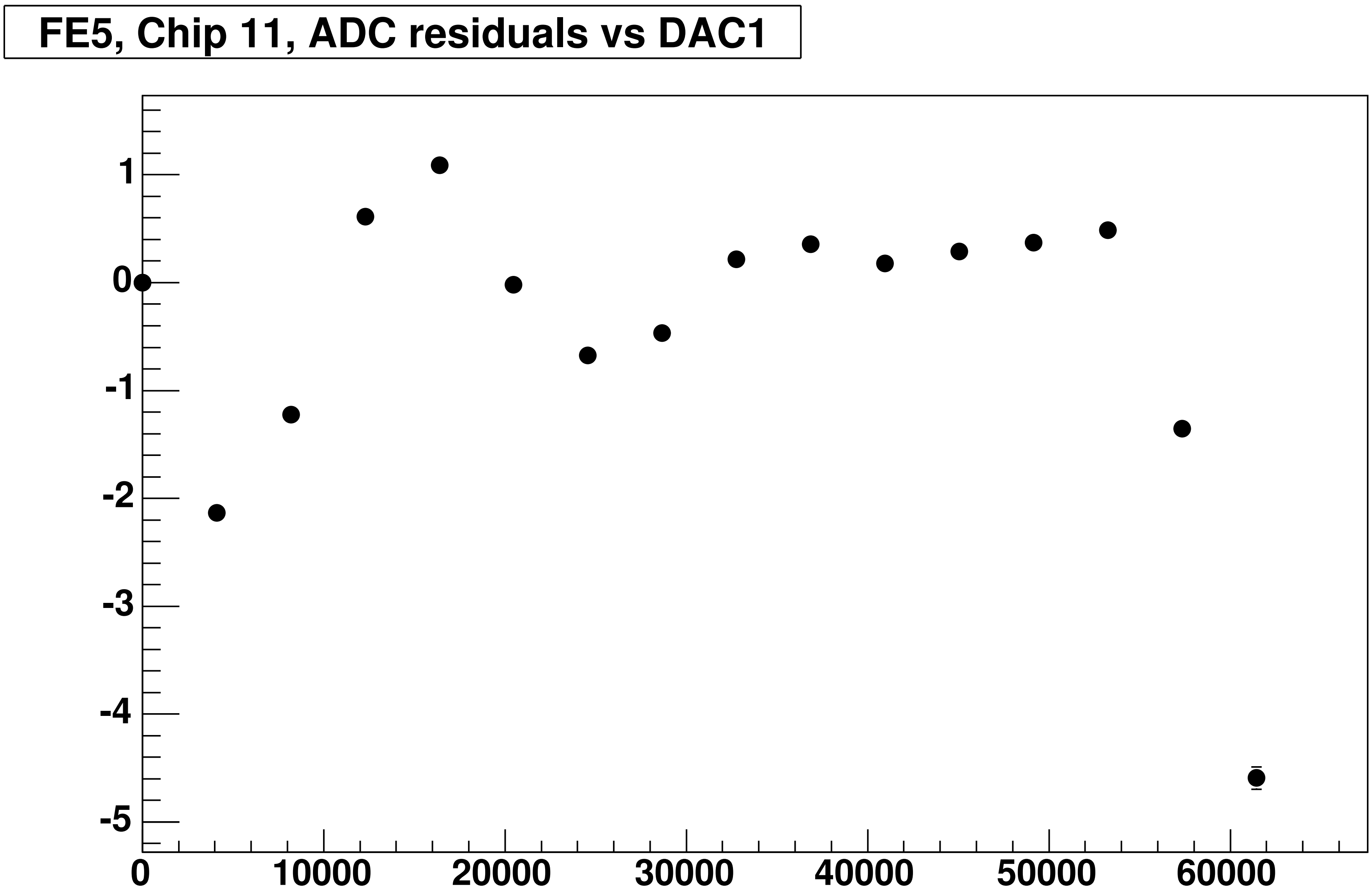


FE5, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

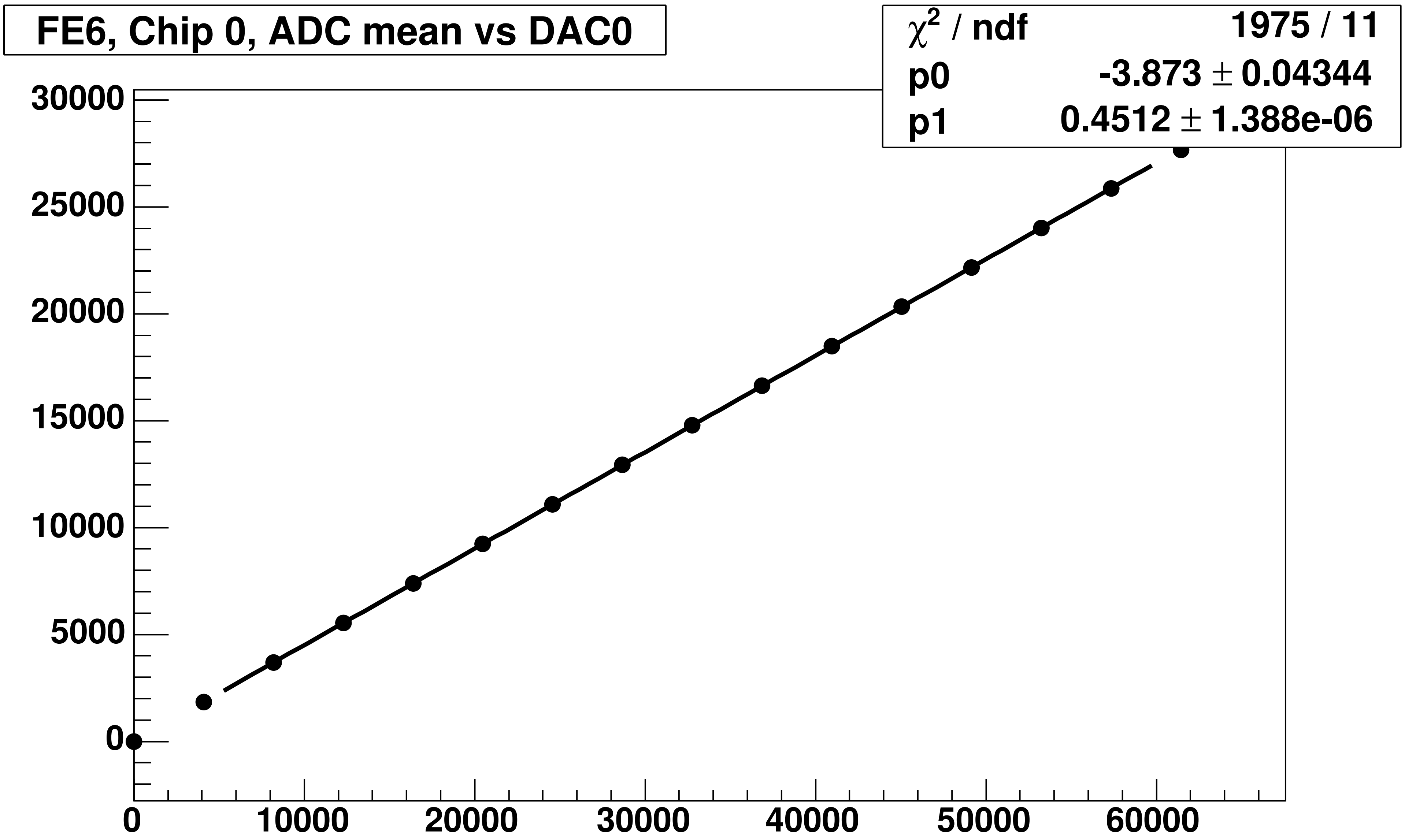


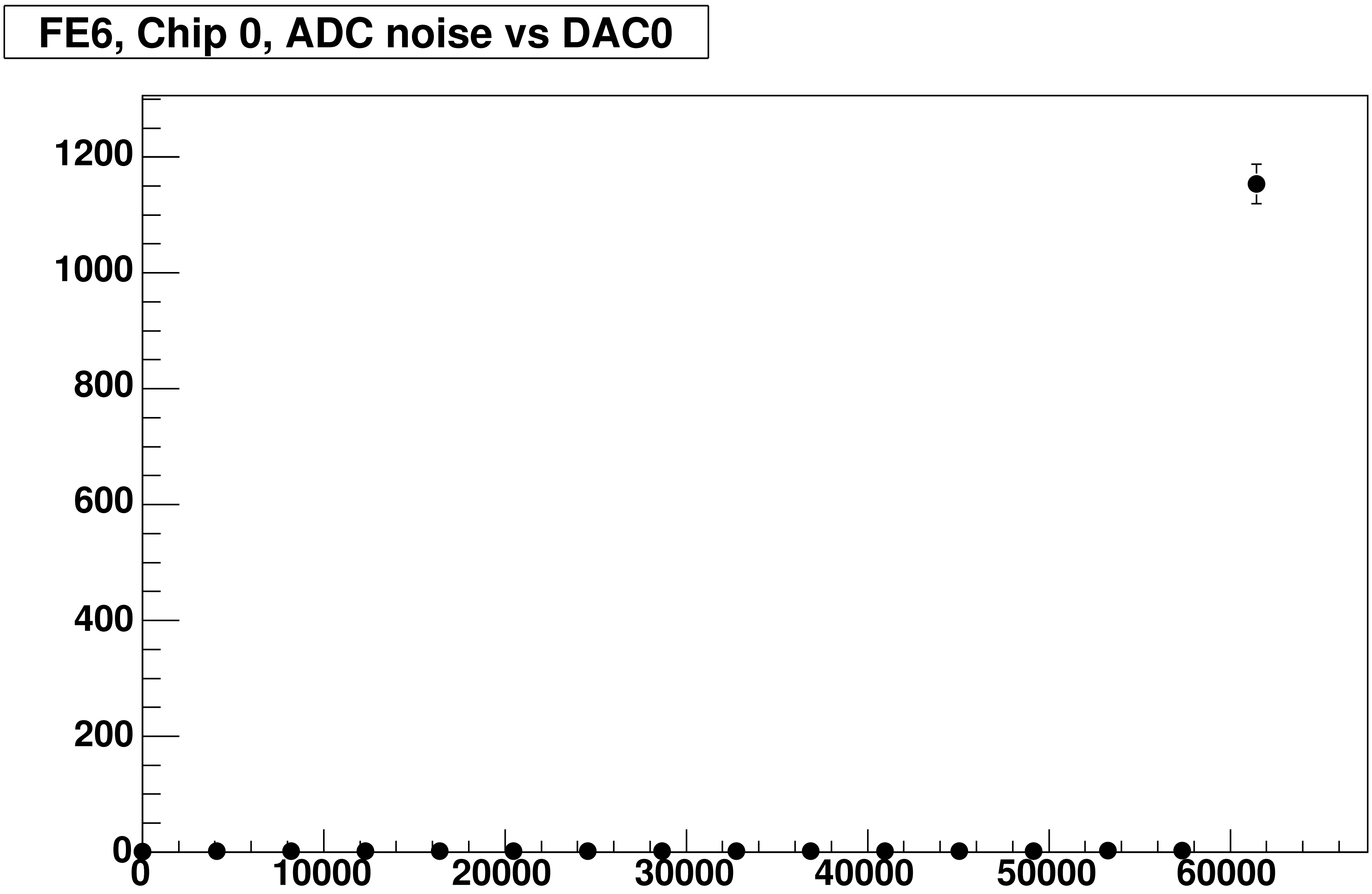
FE5, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1262 / 11
p0 25.65 ± 0.04312
p1 0.4503 ± 1.357e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

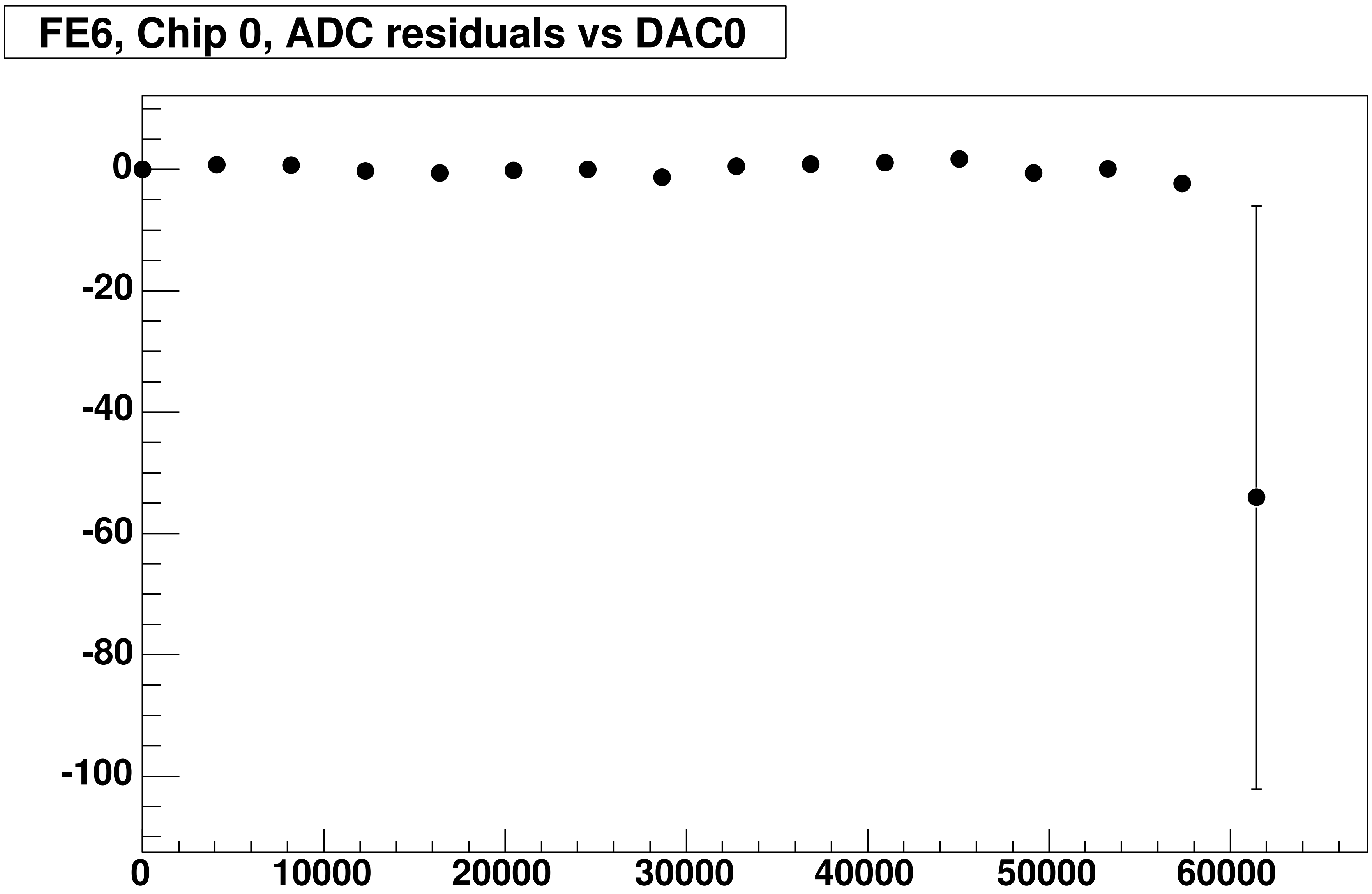

FE5, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

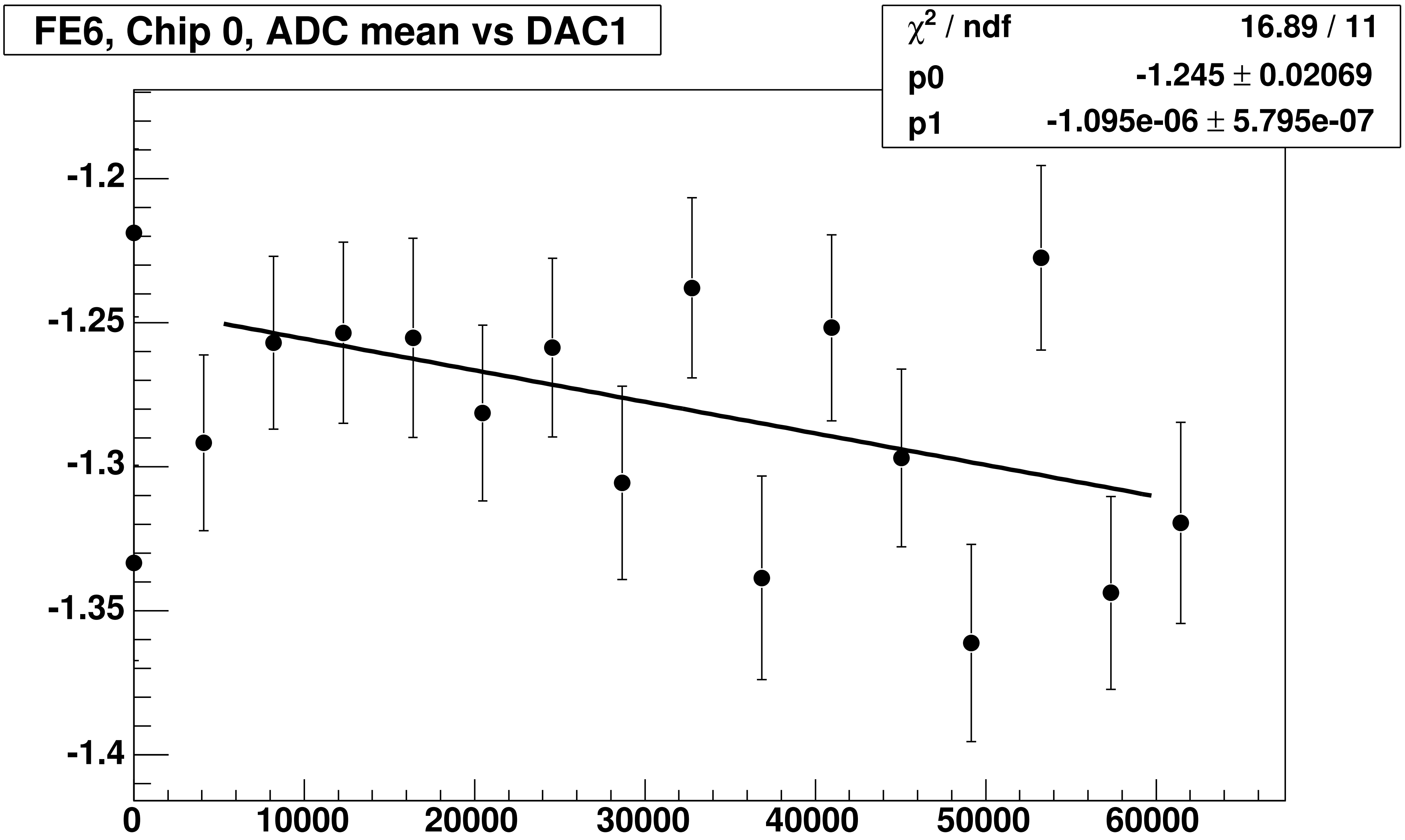


FE5, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

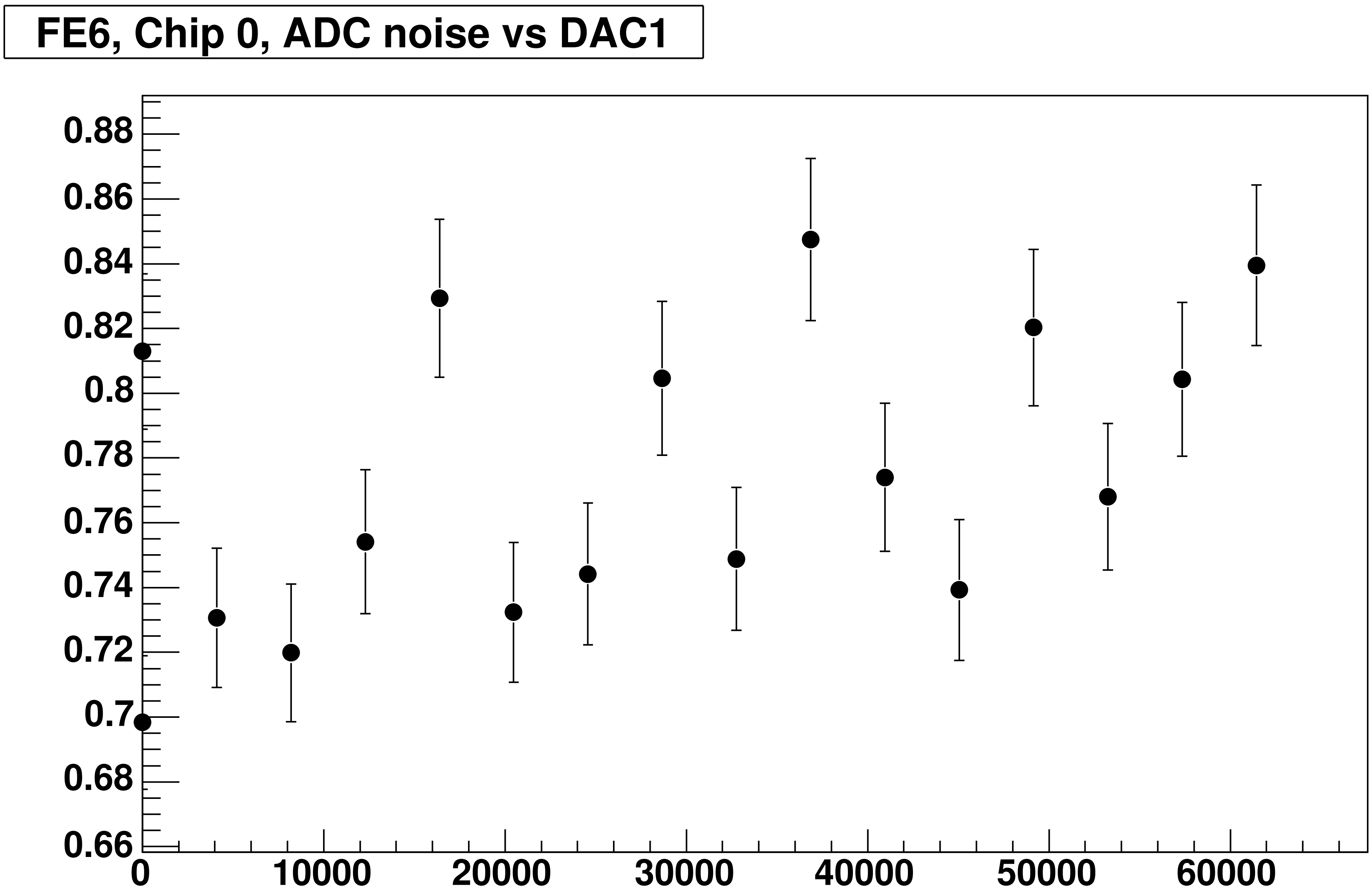

FE6, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1975 / 11
p0 -3.873 ± 0.04344
p1 0.4512 ± 1.388e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

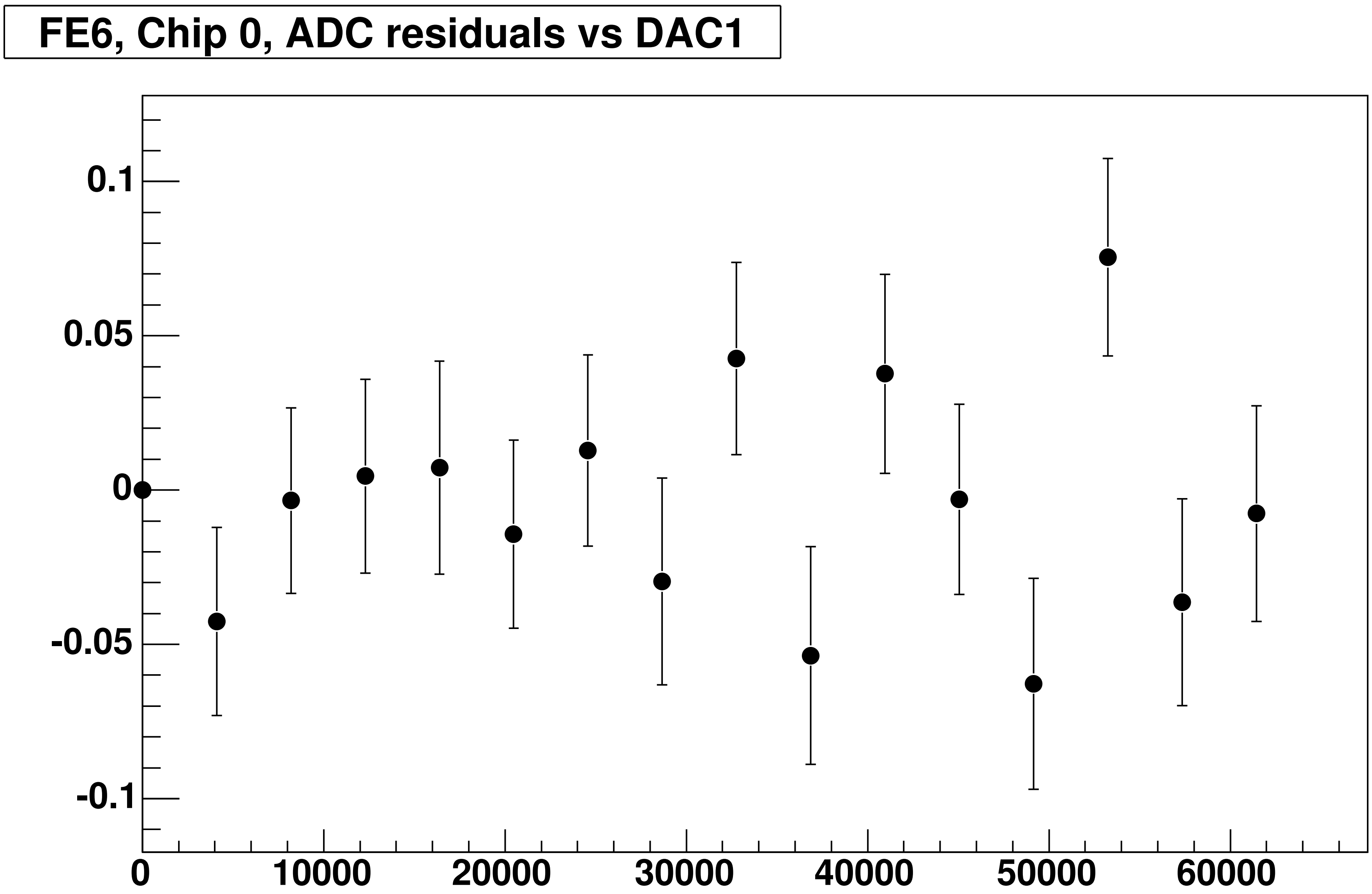

FE6, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

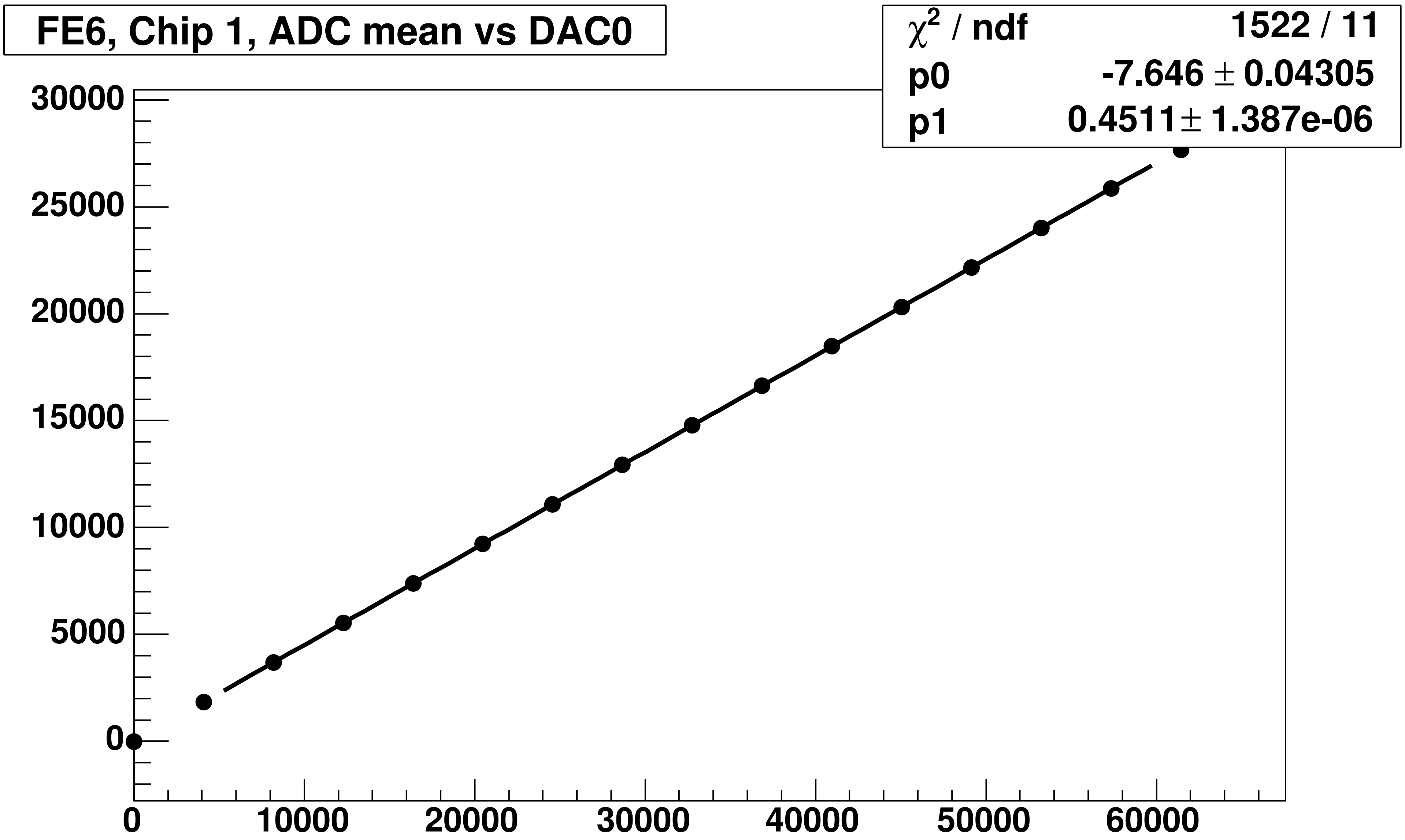


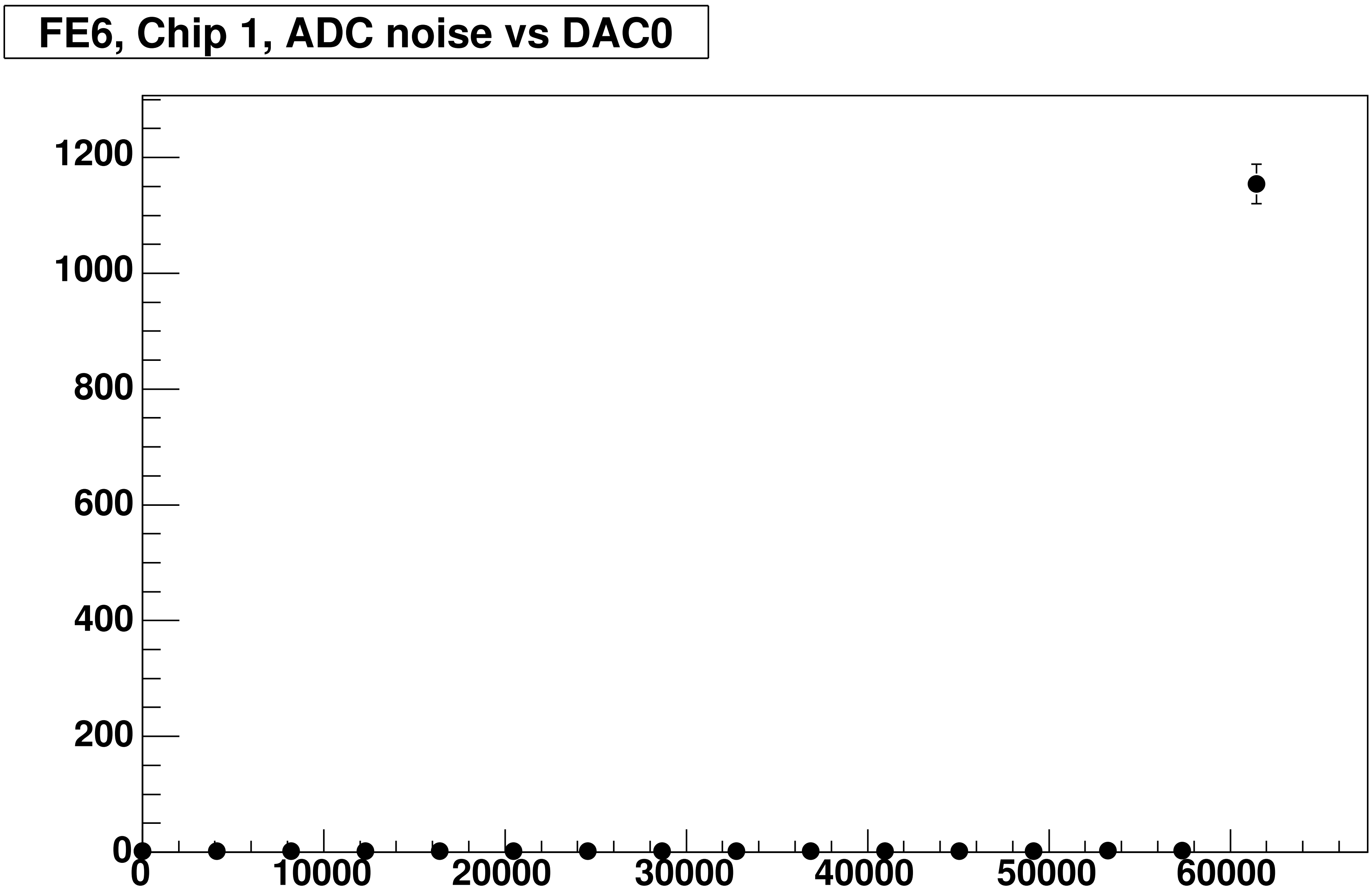
FE6, Chip 0, ADC mean vs DAC1
χ^2 / ndf 16.89 / 11
p0 -1.245 ± 0.02069
p1 -1.095e-06 ± 5.795e-07
-1.2
-1.25
-1.3
-1.35
-1.4
0
10000
20000
30000
40000
50000
60000

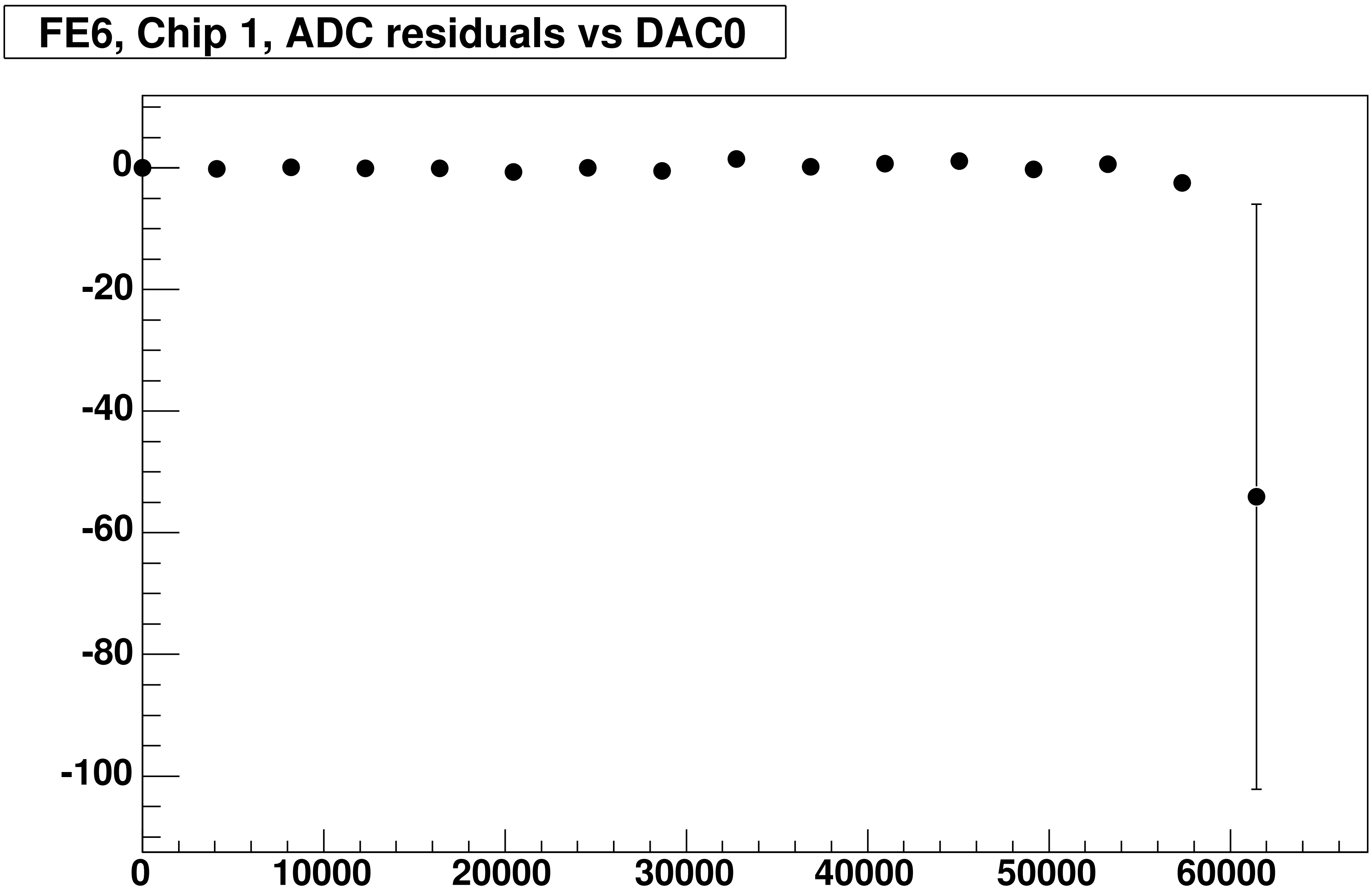


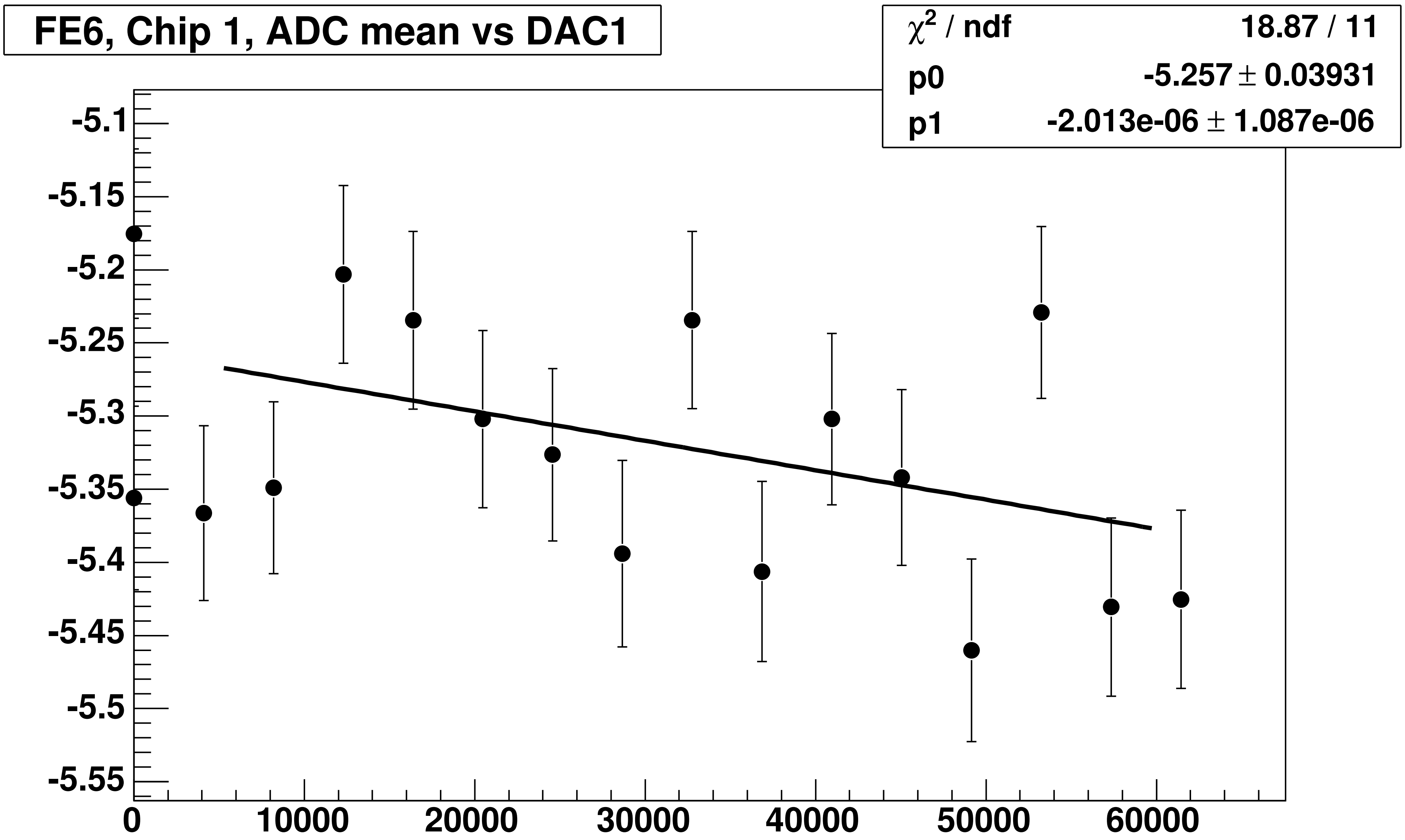
FE6, Chip 0, ADC noise vs DAC1
0.88
0.86
0.84
0.82
0.8
0.78
0.76
0.74
0.72
0.7
0.68
0.66
0
10000
20000
30000
40000
50000
60000


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

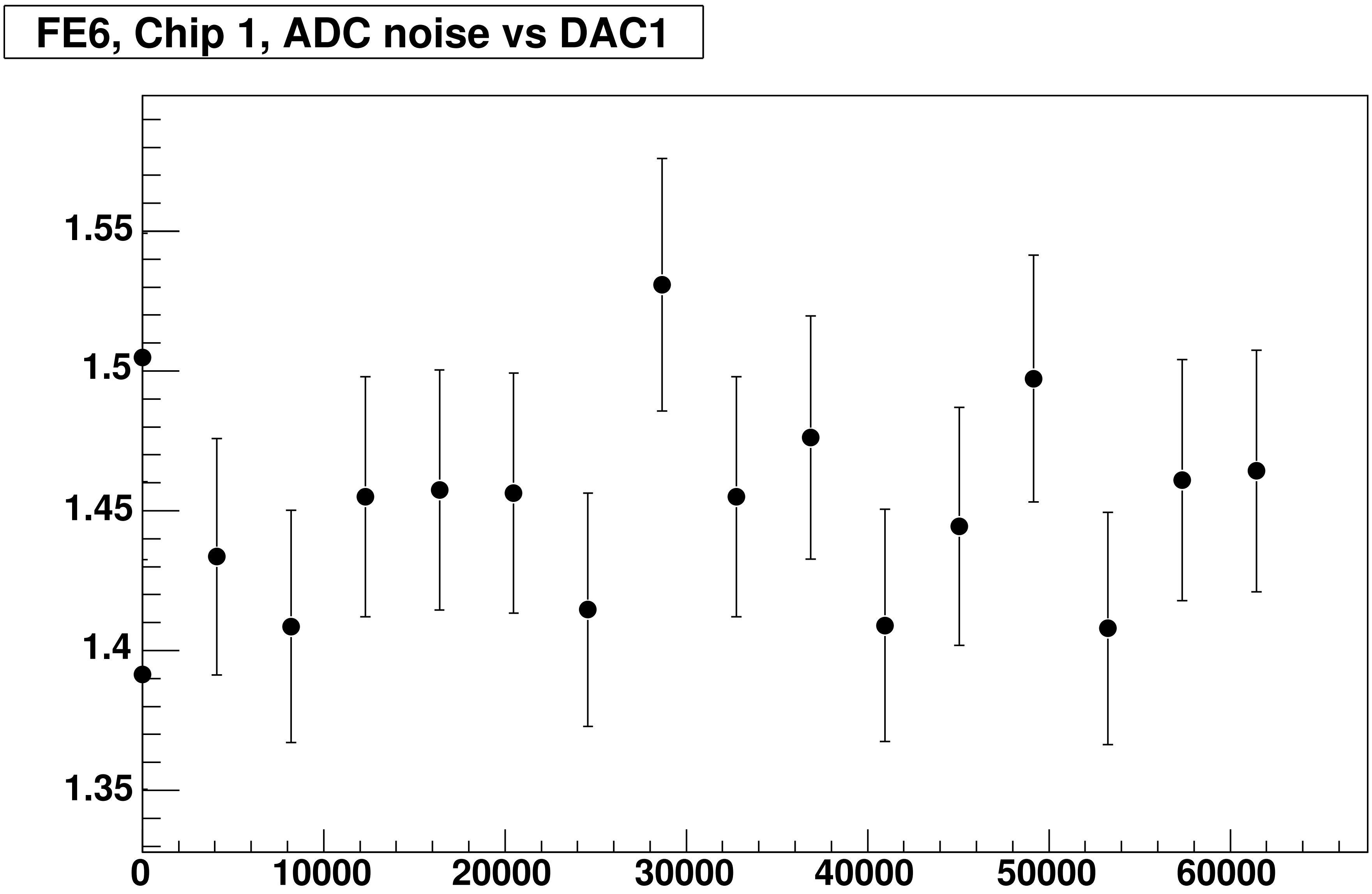

FE6, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1522 / 11
p0 -7.646 ± 0.04305
p1 0.4511 ± 1.387e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

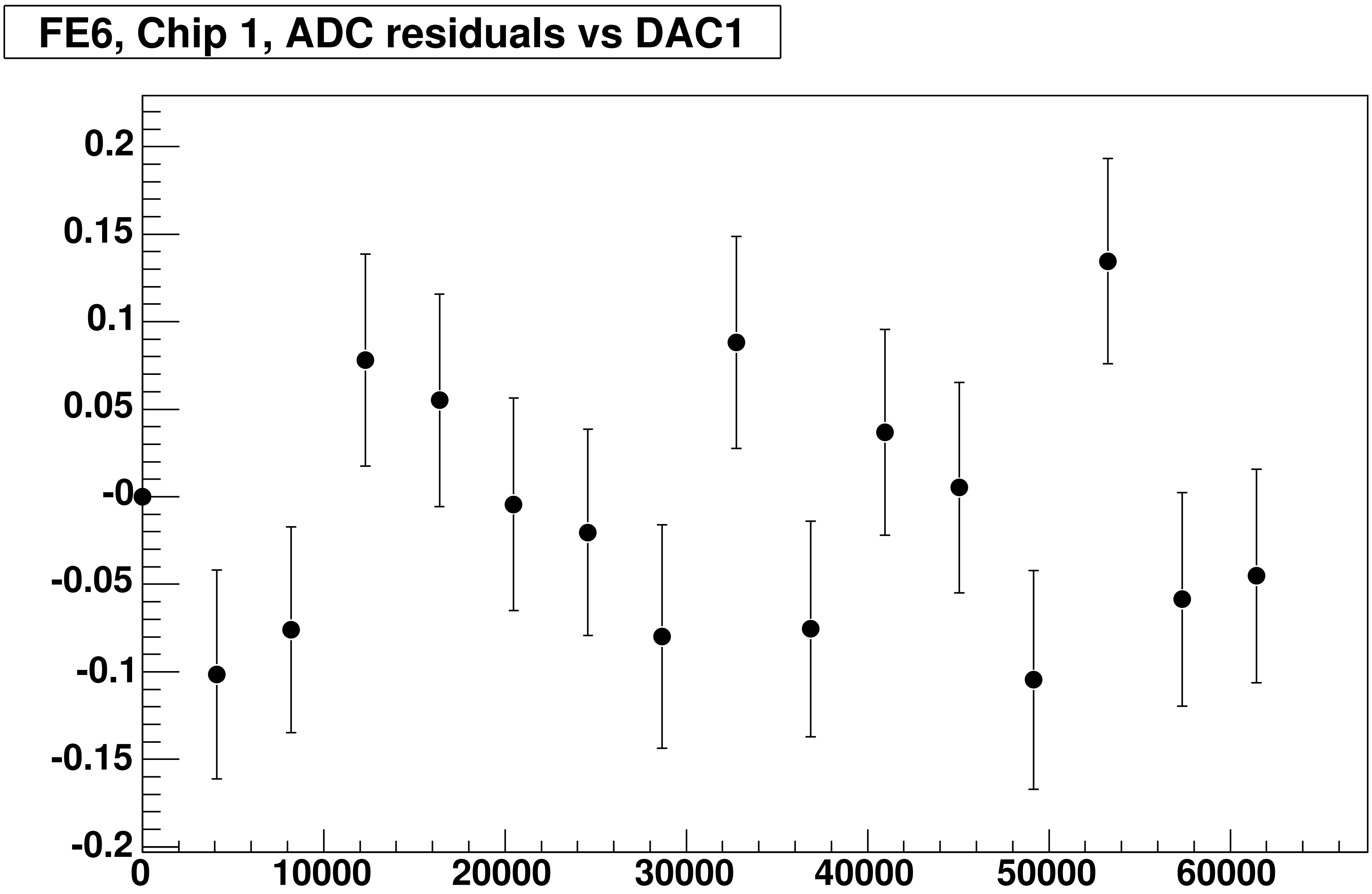

FE6, Chip 1, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

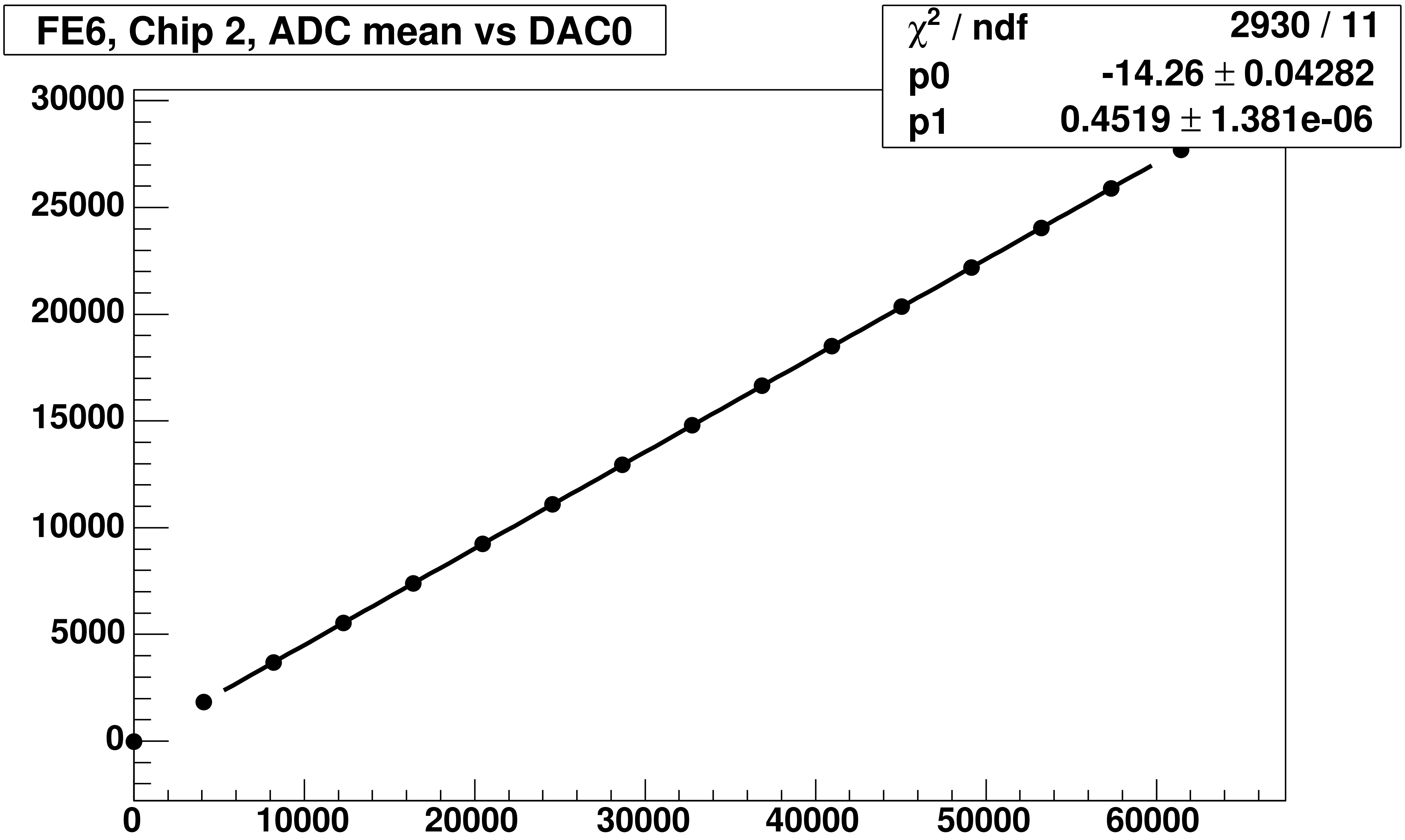

FE6, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

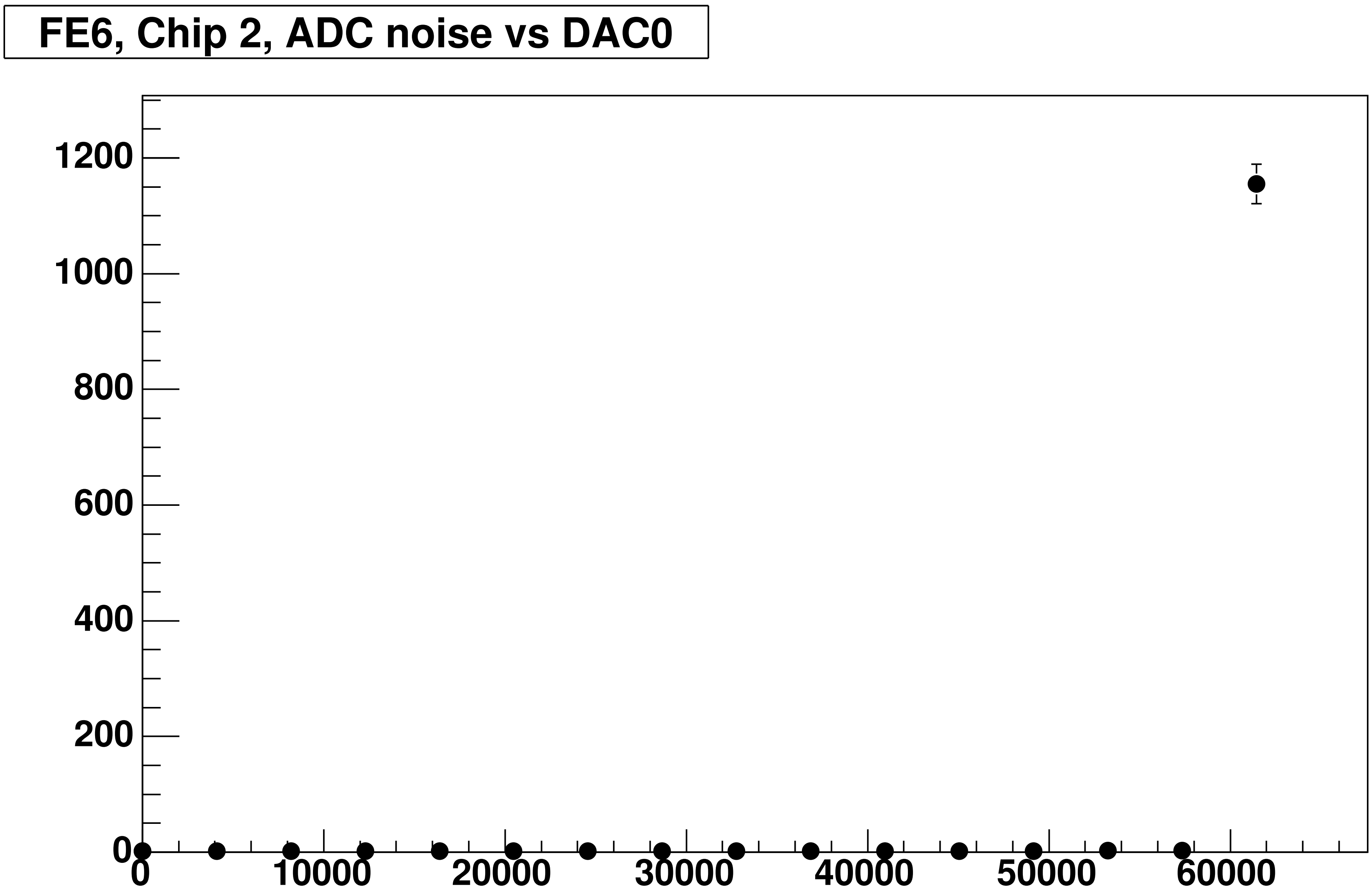


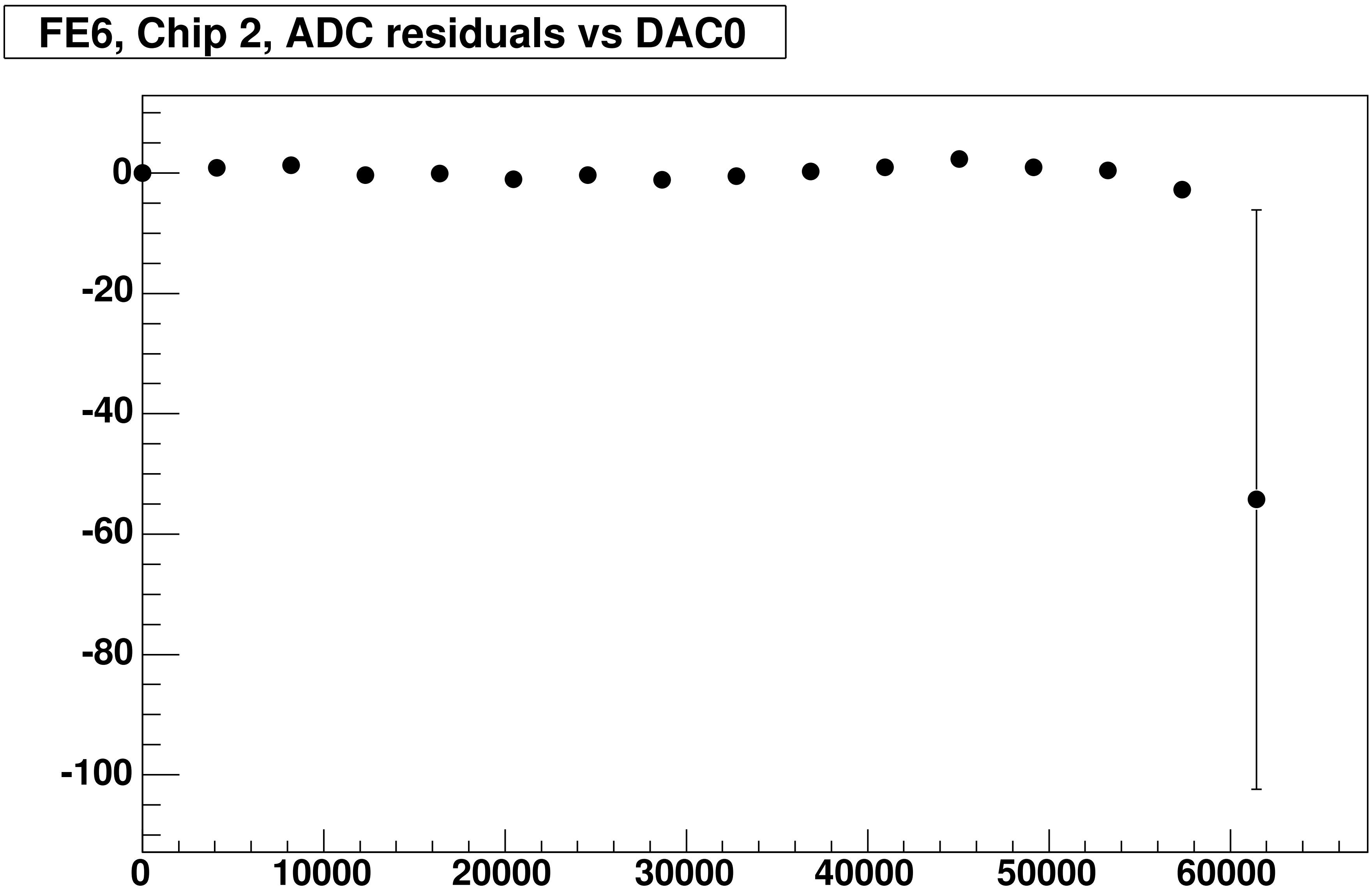
FE6, Chip 1, ADC mean vs DAC1
χ2 / ndf 18.87 / 11
p0 -5.257 ± 0.03931
p1 -2.013e-06 ± 1.087e-06
-5.1
-5.15
-5.2
-5.25
-5.3
-5.35
-5.4
-5.45
-5.5
-5.55
0
10000
20000
30000
40000
50000
60000


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

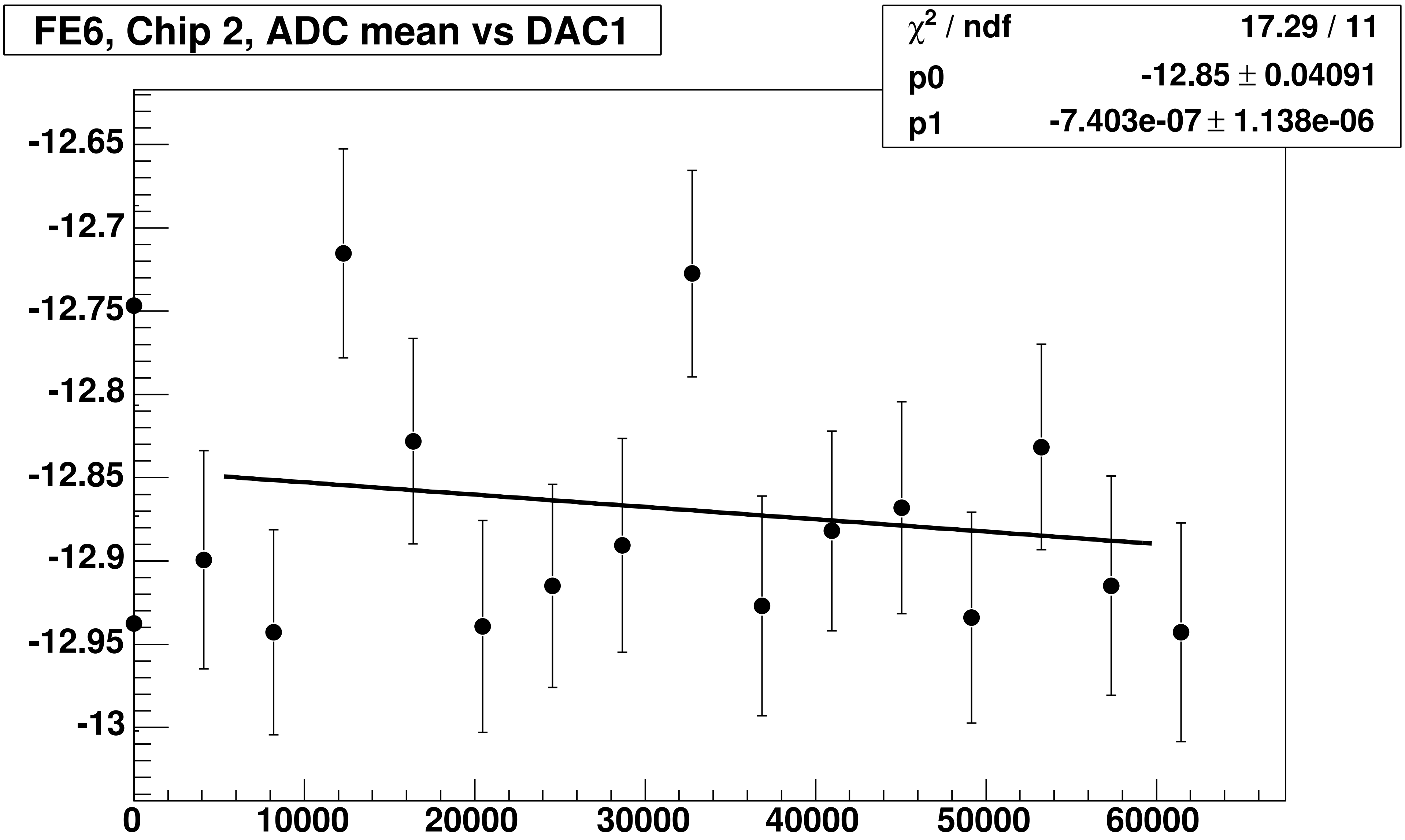

FE6, Chip 1, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

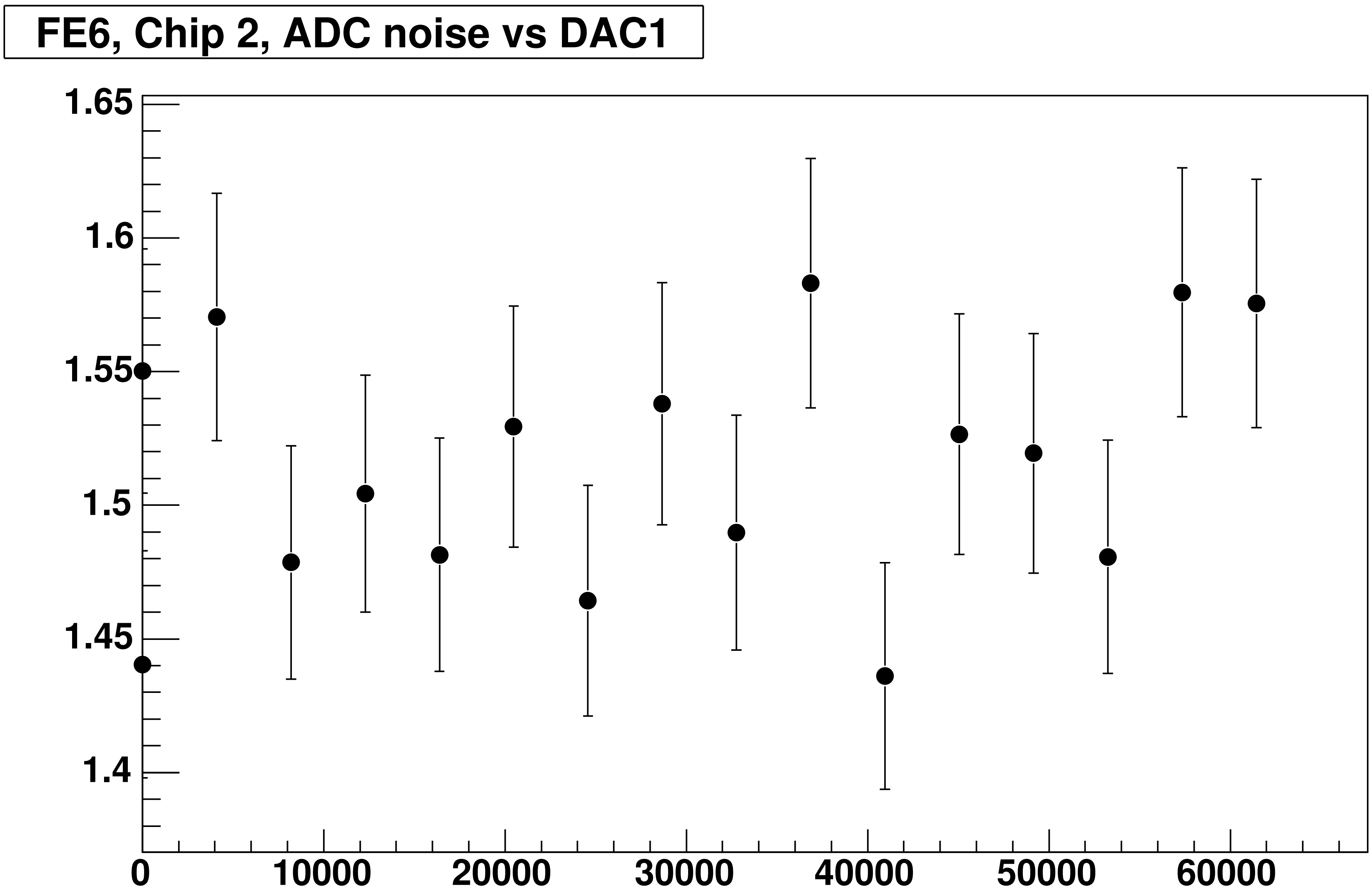

FE6, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2930 / 11
p0 -14.26 ± 0.04282
p1 0.4519 ± 1.381e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

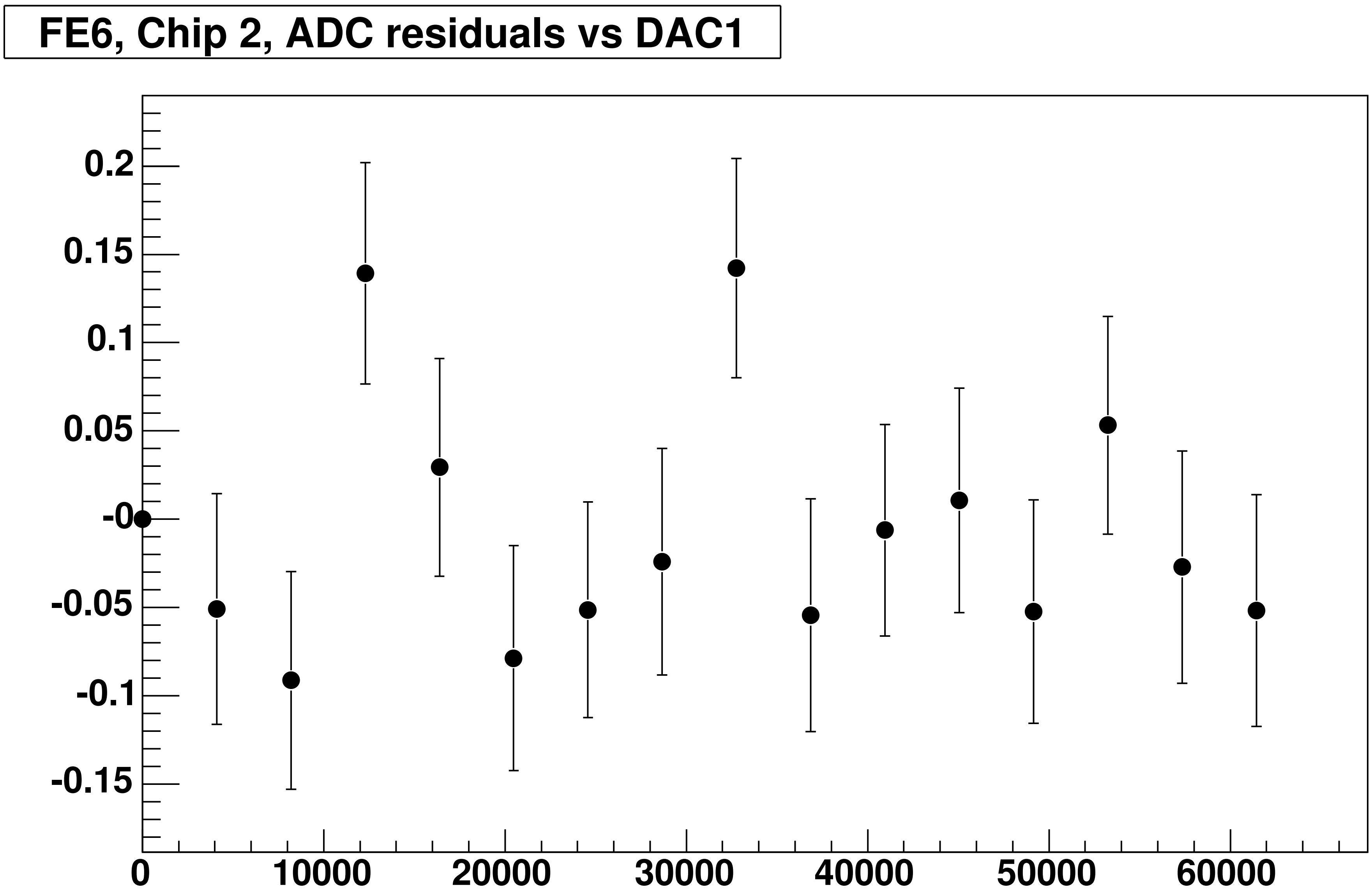

FE6, Chip 2, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

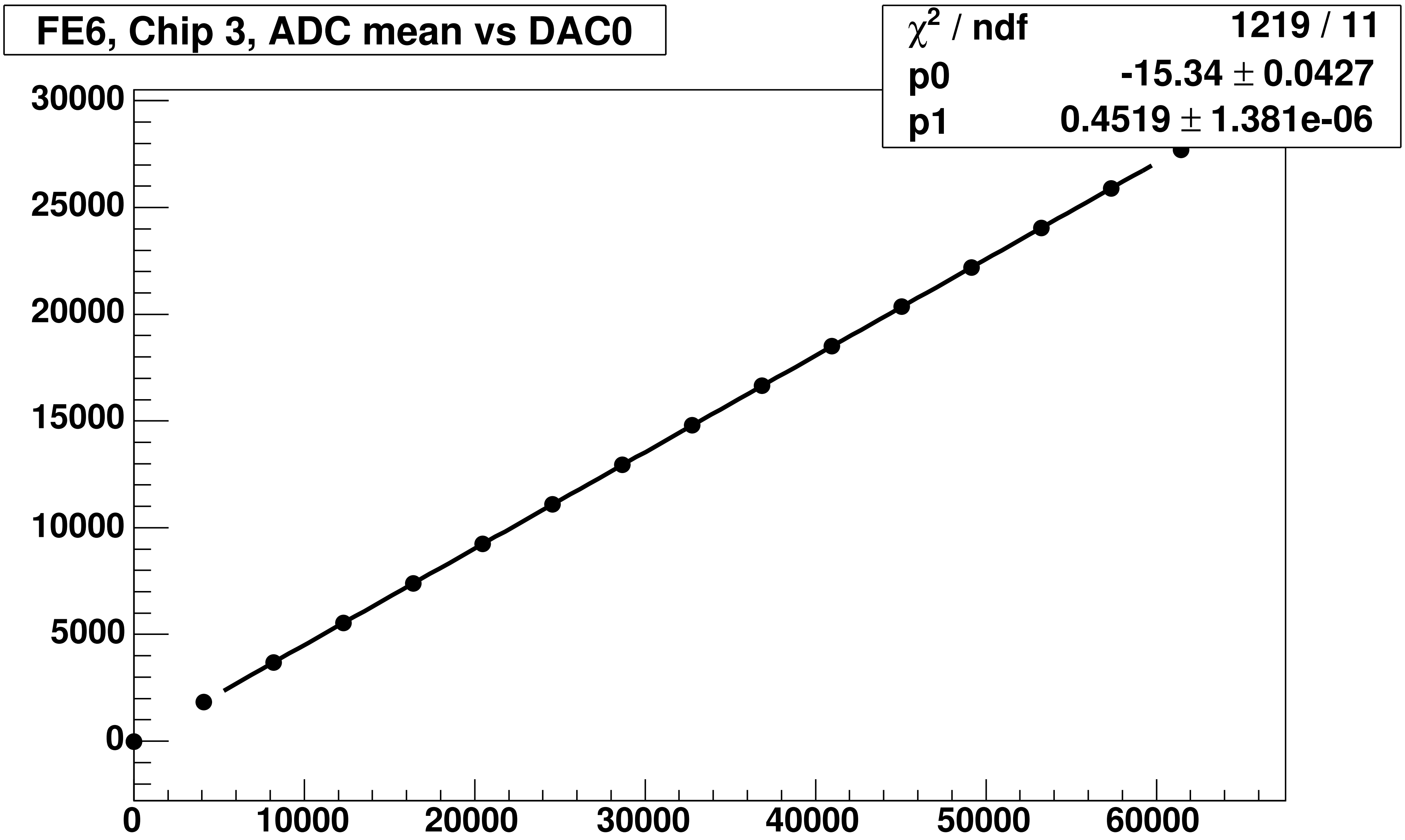


FE6, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

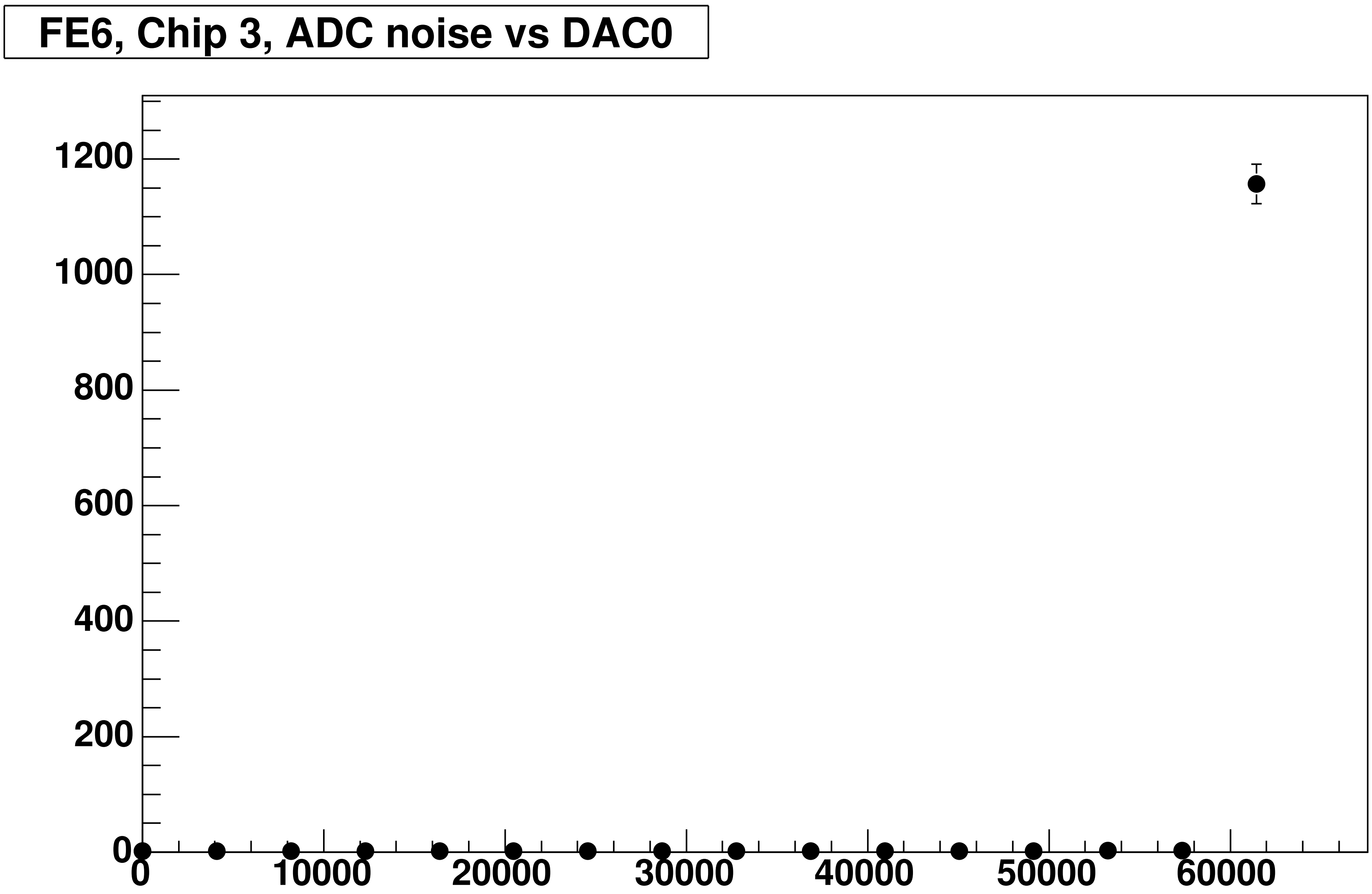

FE6, Chip 2, ADC mean vs DAC1
χ^2 / ndf 17.29 / 11
p0 -12.85 ± 0.04091
p1 -7.403e-07 ± 1.138e-06
-12.65
-12.7
-12.75
-12.8
-12.85
-12.9
-12.95
-13
0
10000
20000
30000
40000
50000
60000

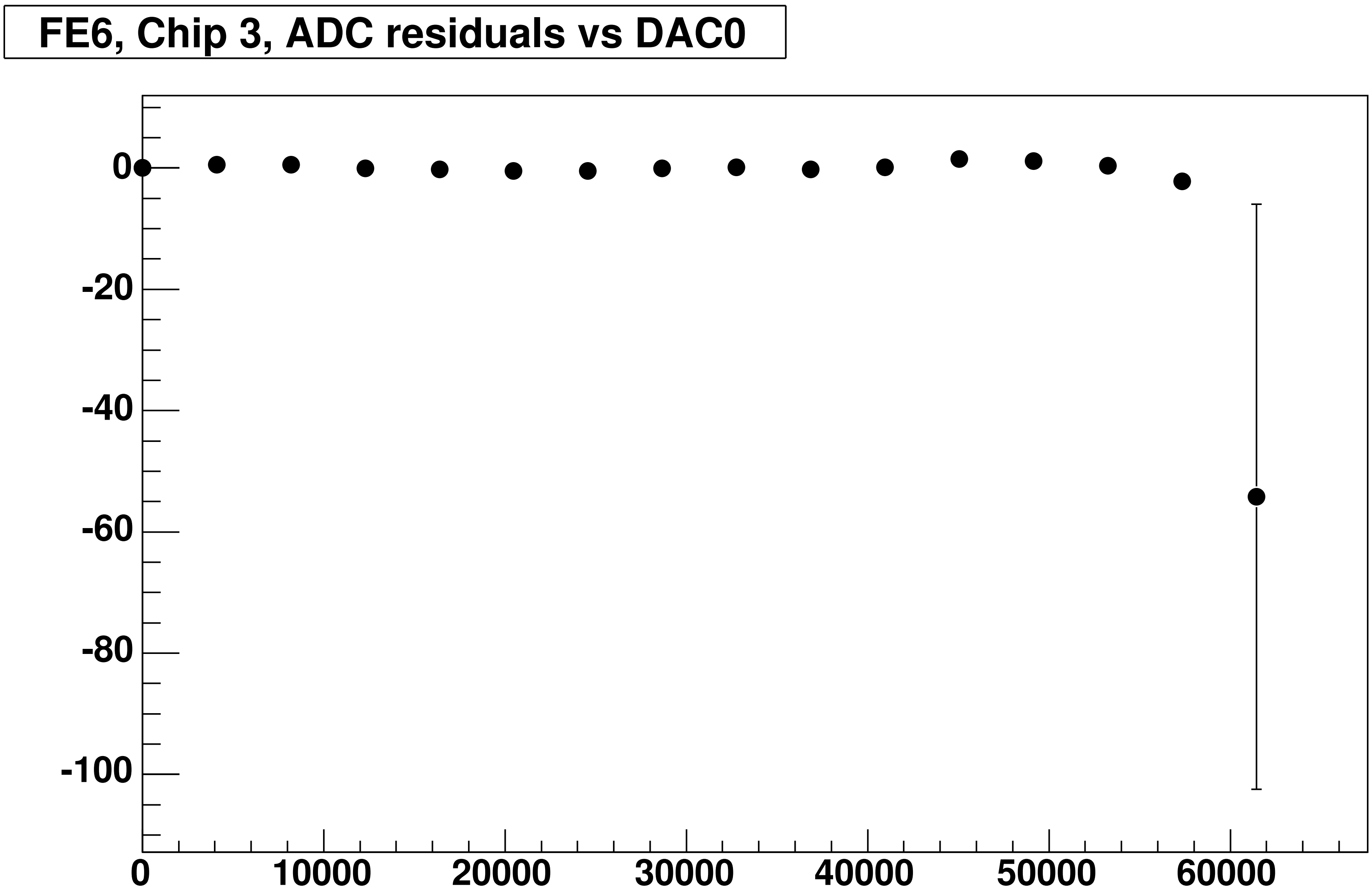

FE6, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

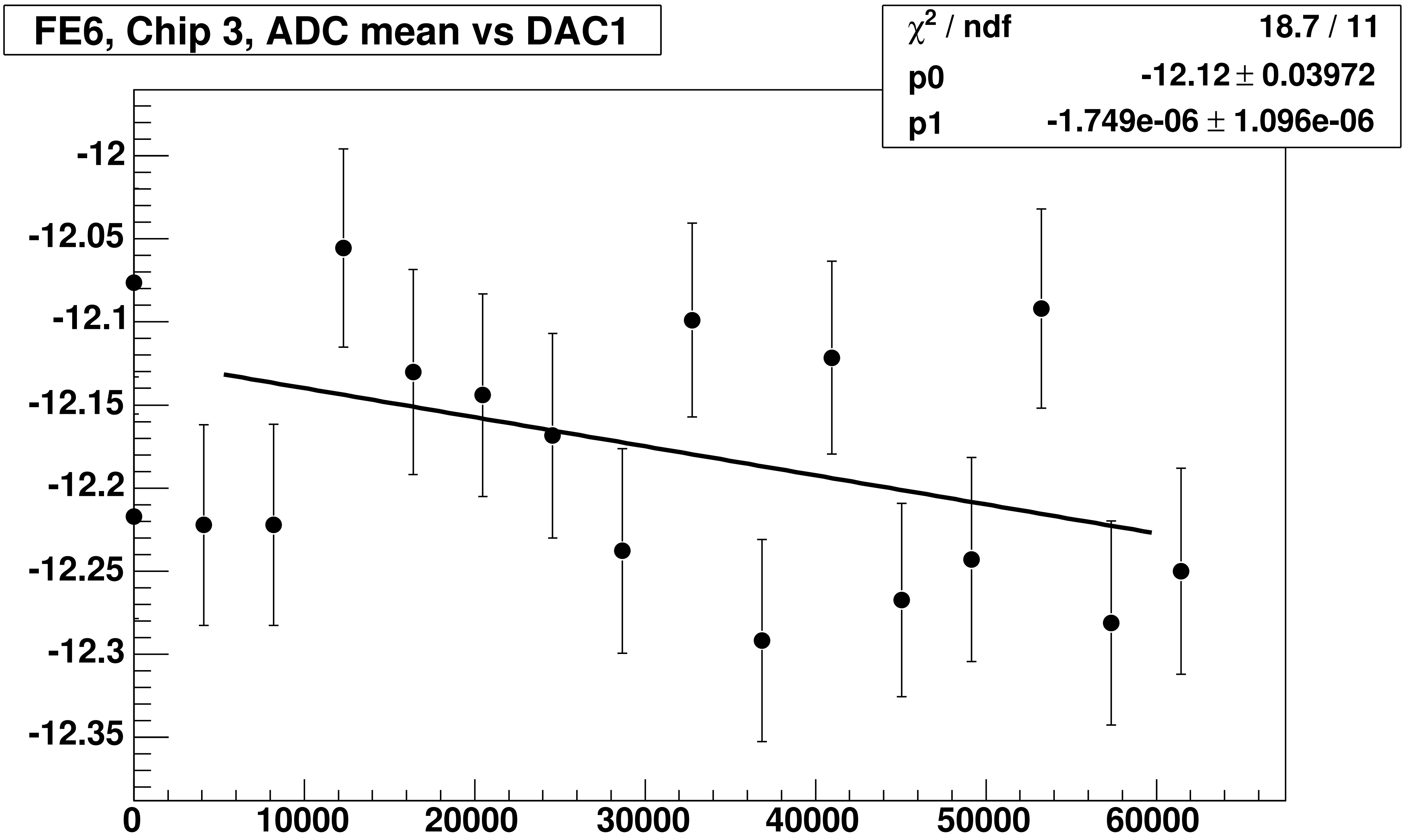

FE6, Chip 2, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

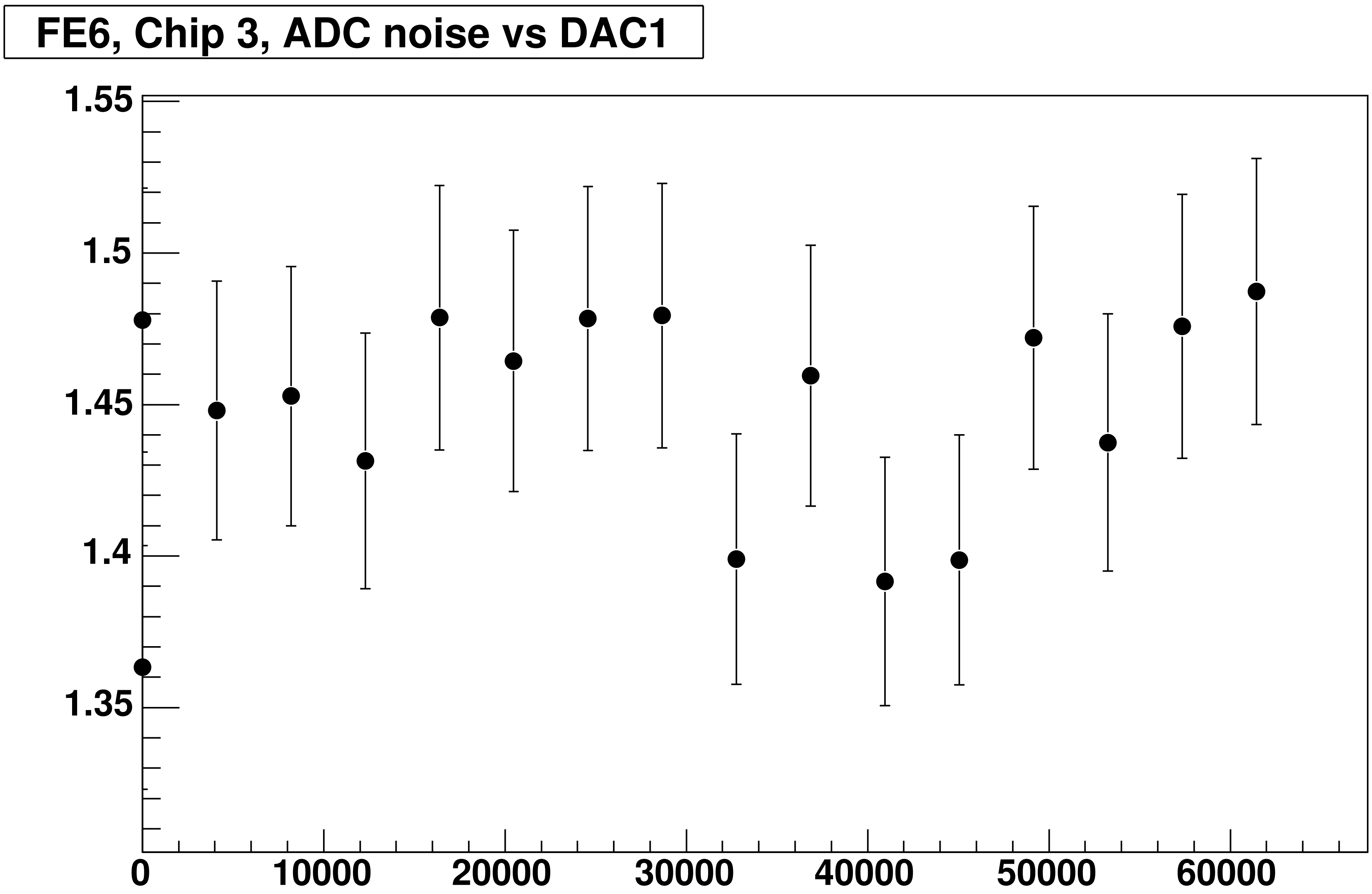


FE6, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1219 / 11
p0 -15.34 ± 0.0427
p1 0.4519 ± 1.381e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

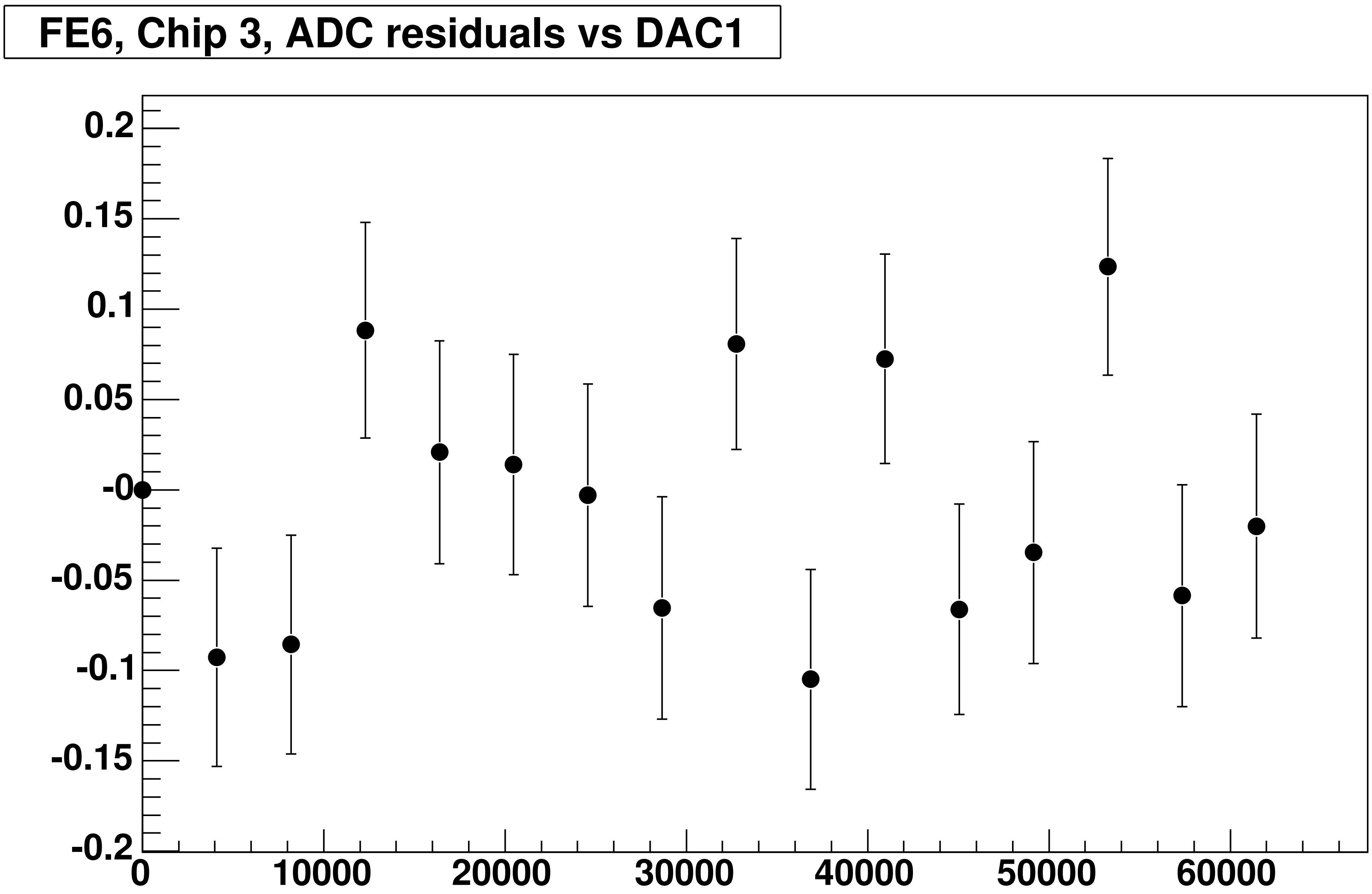

FE6, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


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

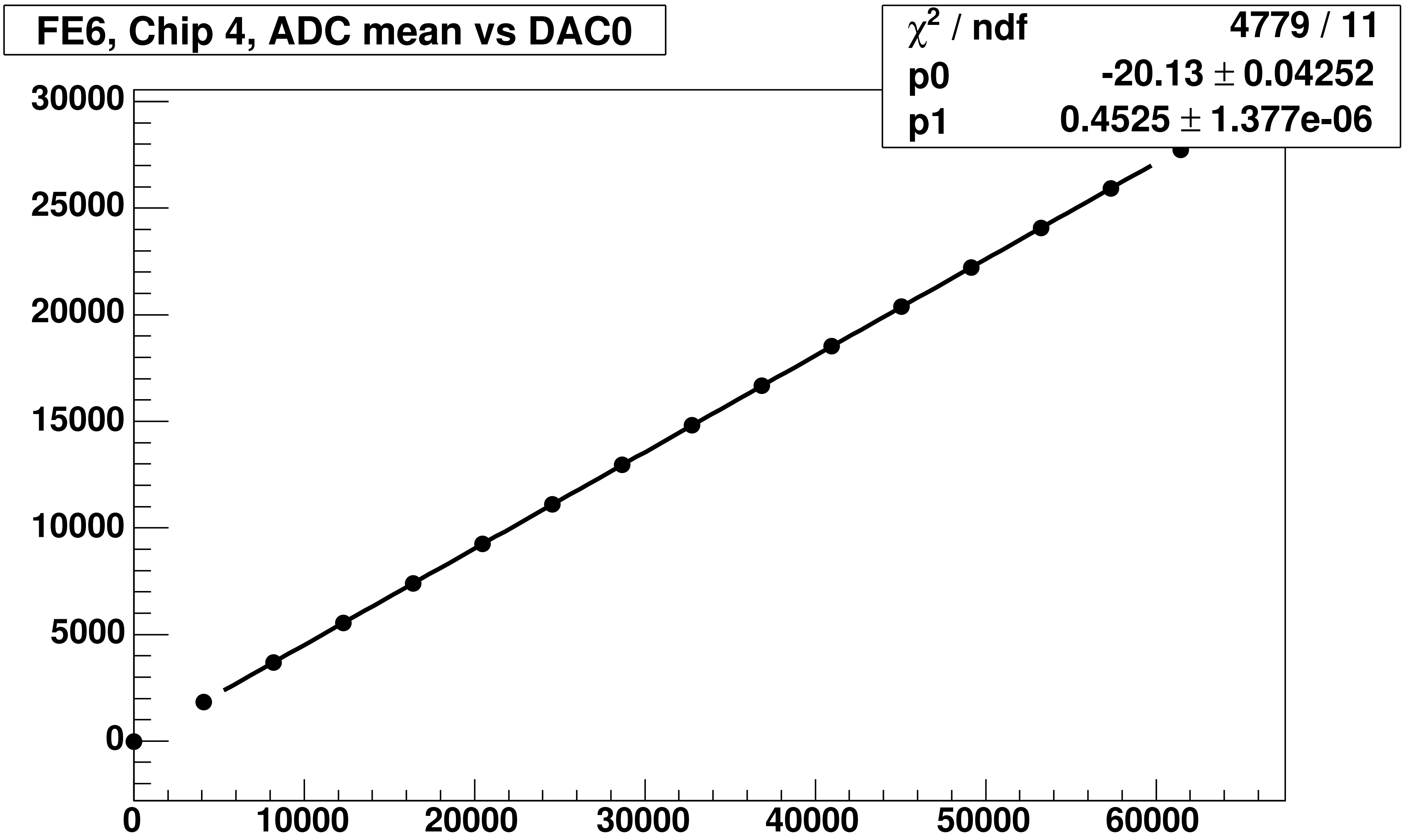

FE6, Chip 3, ADC mean vs DAC1
χ^2 / ndf 18.7 / 11
p0 -12.12 ± 0.03972
p1 -1.749e-06 ± 1.096e-06
-12
-12.05
-12.1
-12.15
-12.2
-12.25
-12.3
-12.35
0
10000
20000
30000
40000
50000
60000



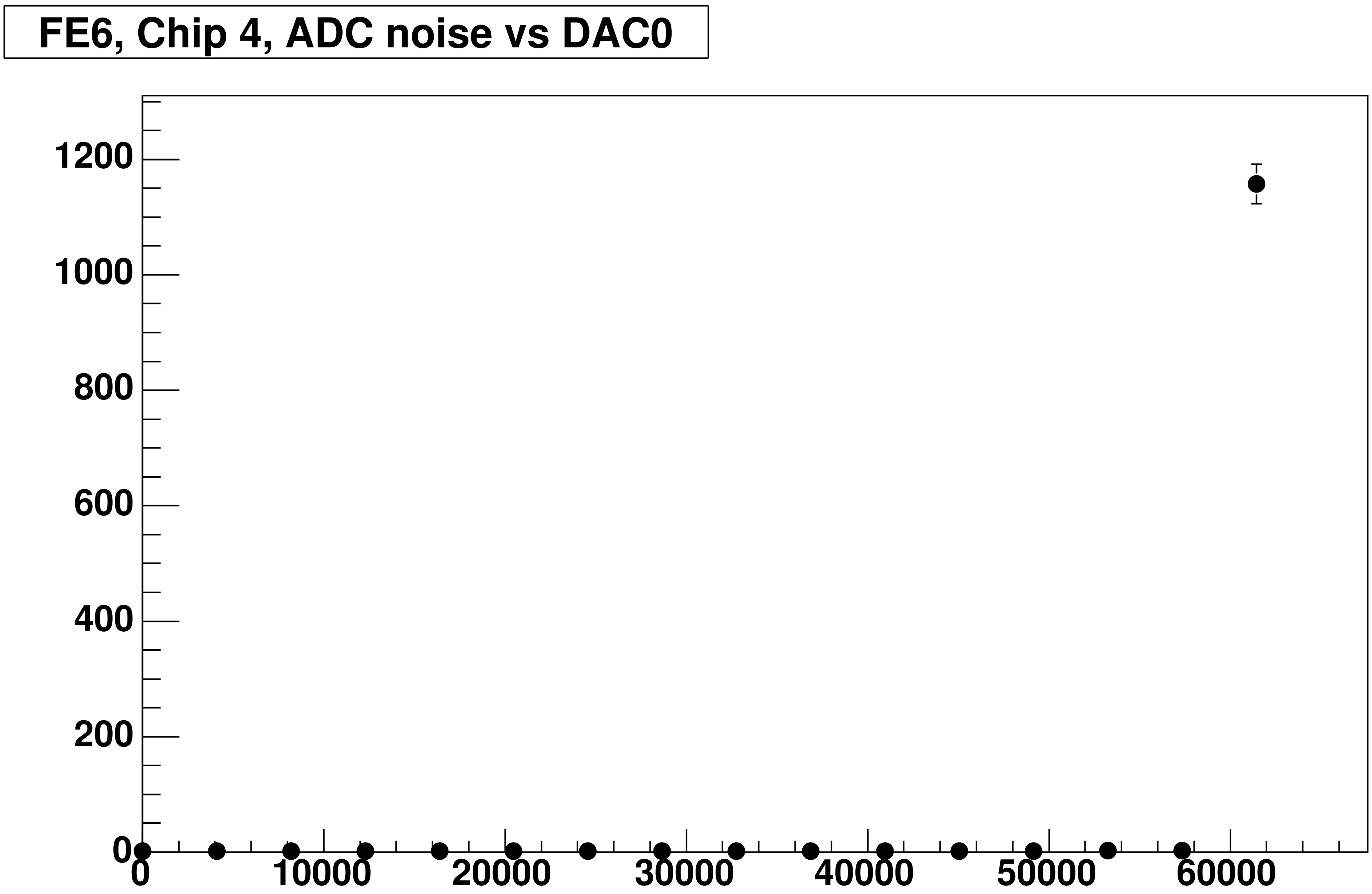
FE6, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



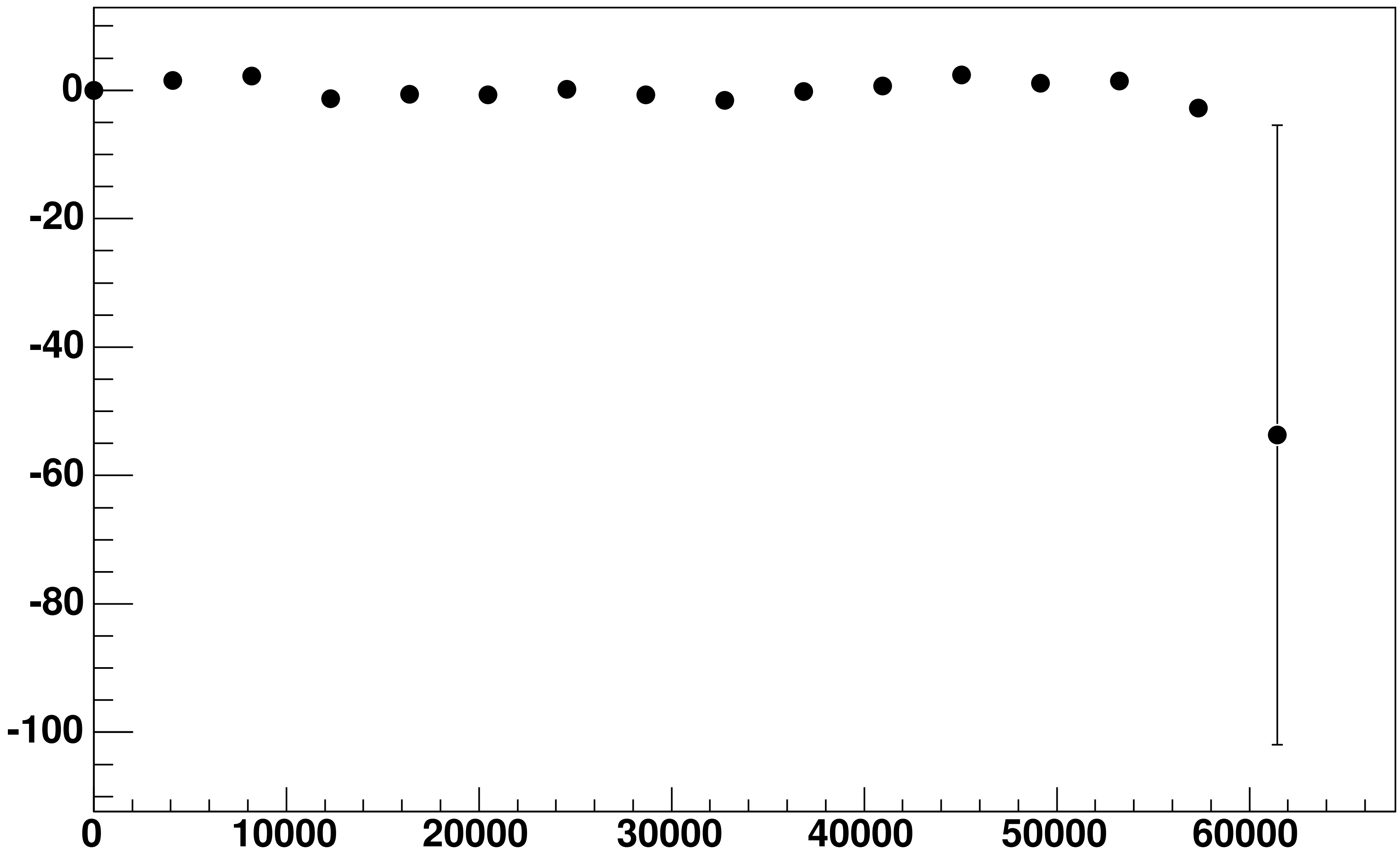
FE6, Chip 3, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

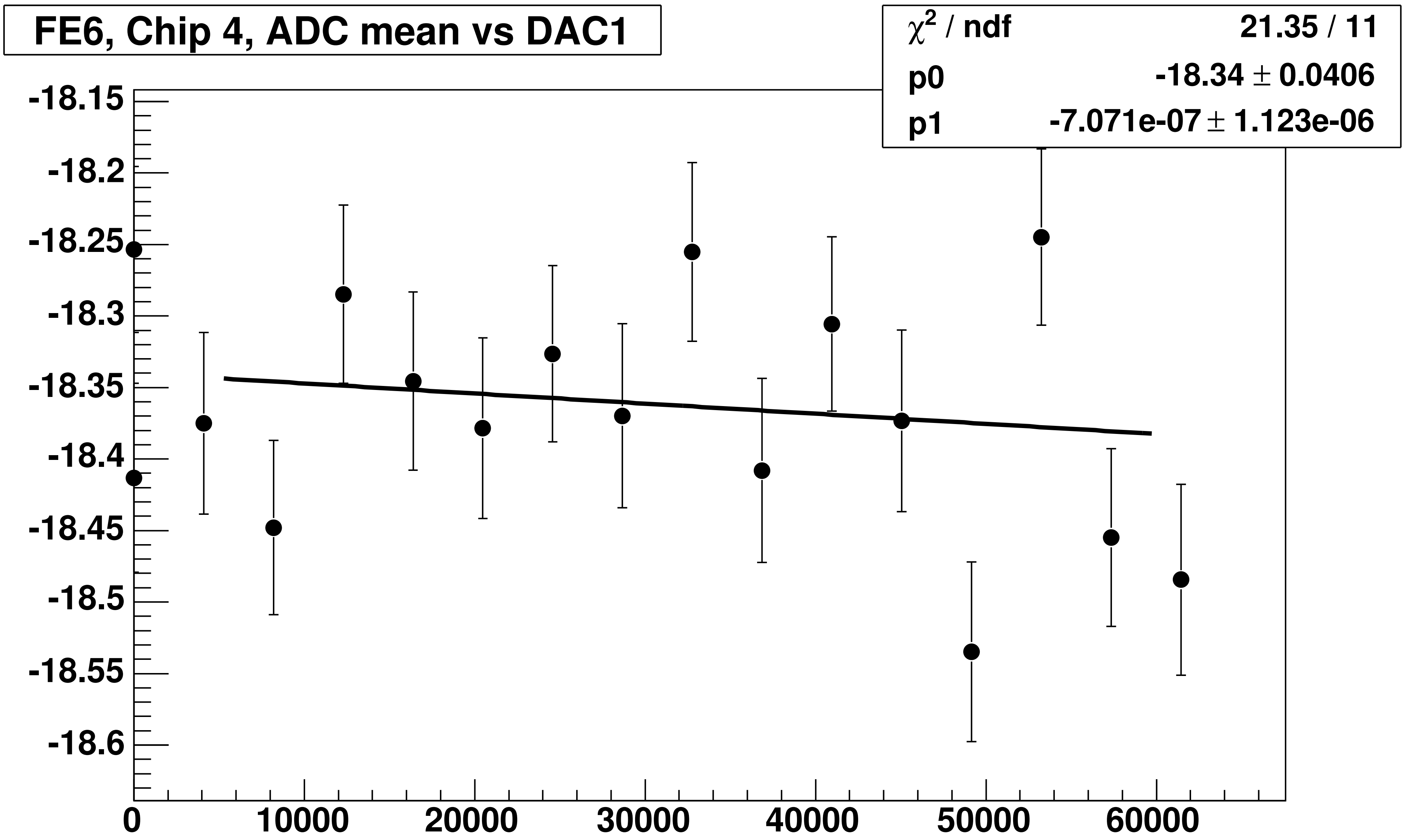


FE6, Chip 4, ADC mean vs DAC0
χ² / ndf 4779 / 11
p0 -20.13 ± 0.04252
p1 0.4525 ± 1.377e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

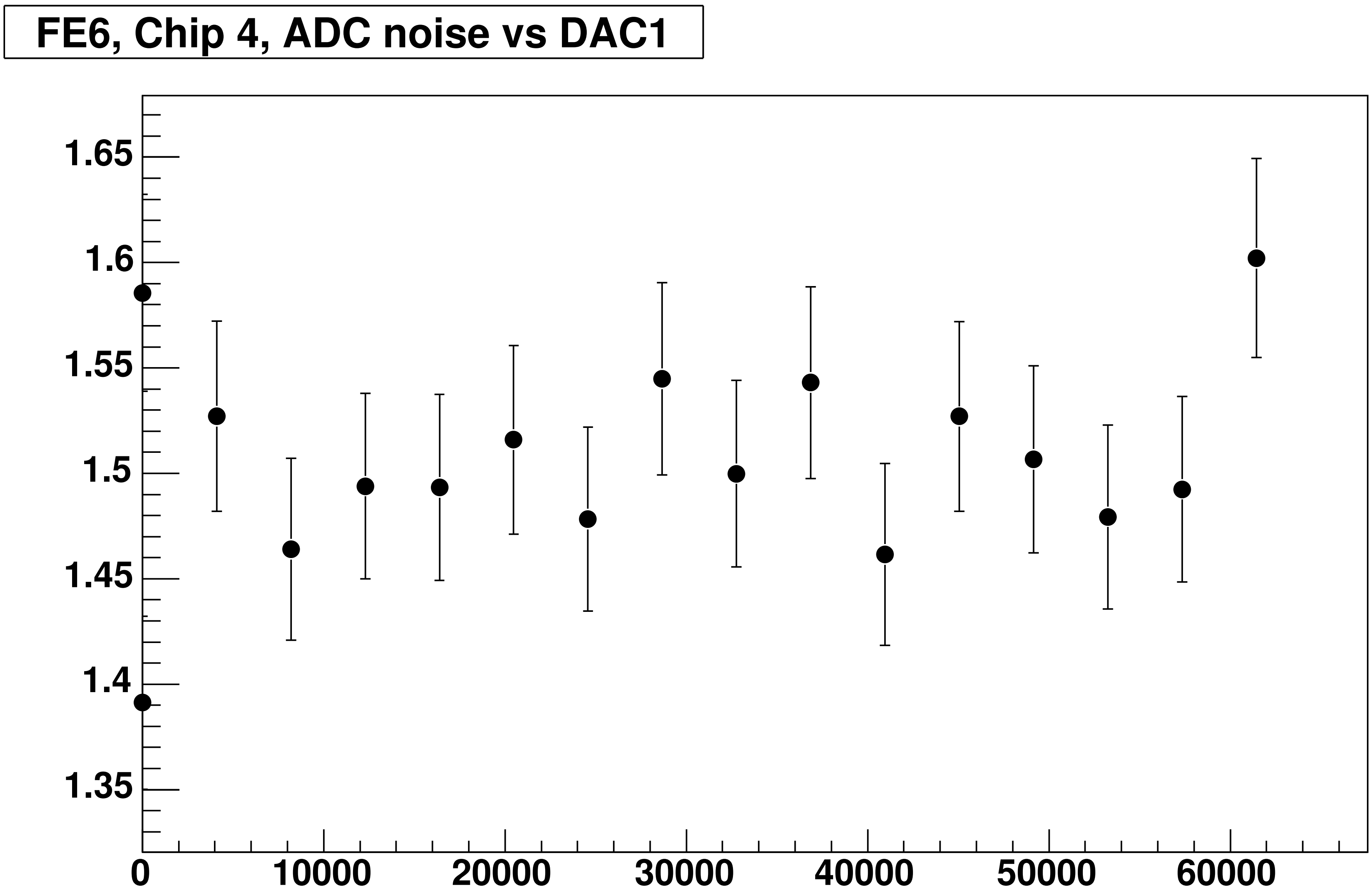

FE6, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

FE6, Chip 4, ADC residuals vs DAC0

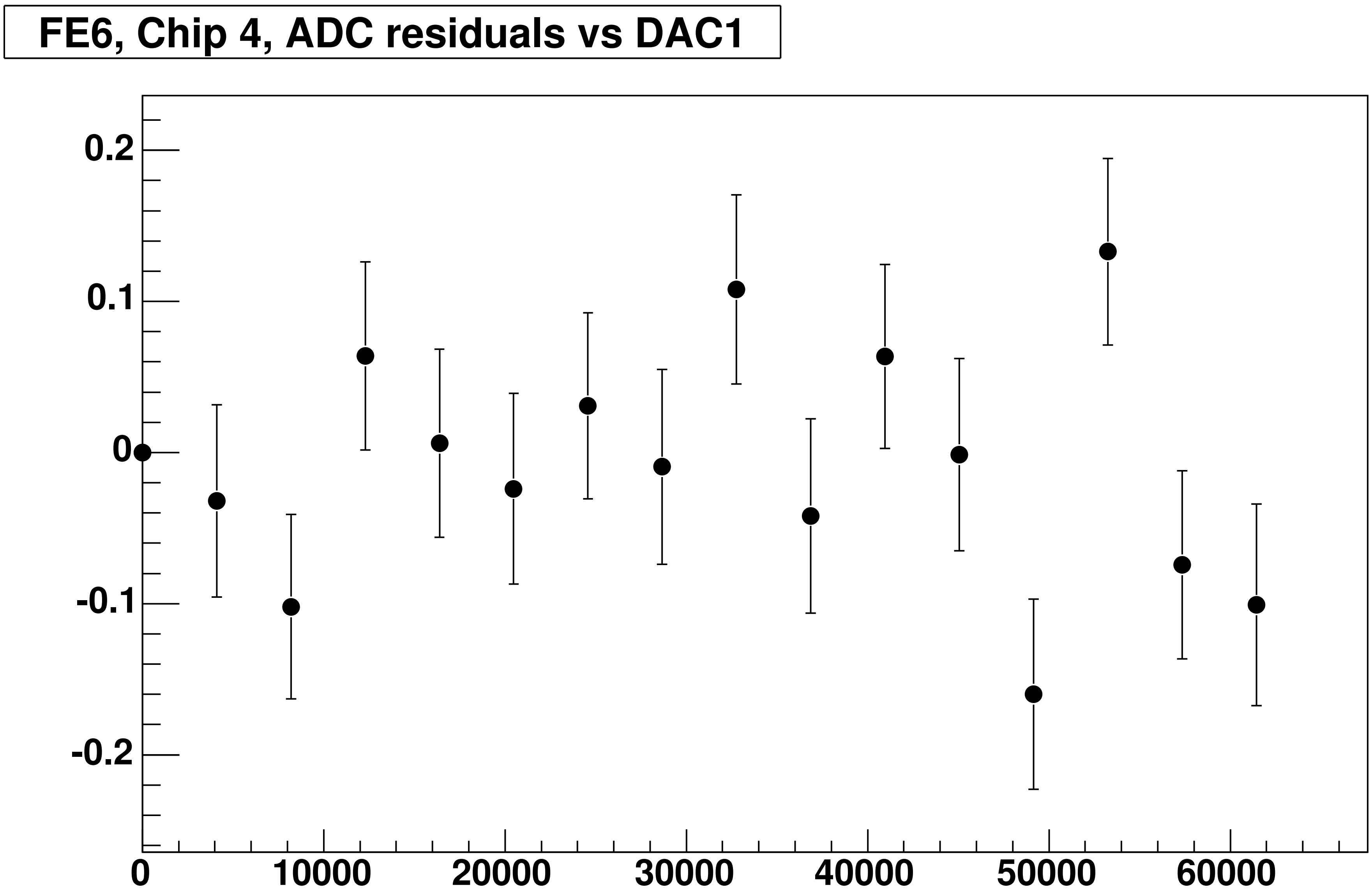




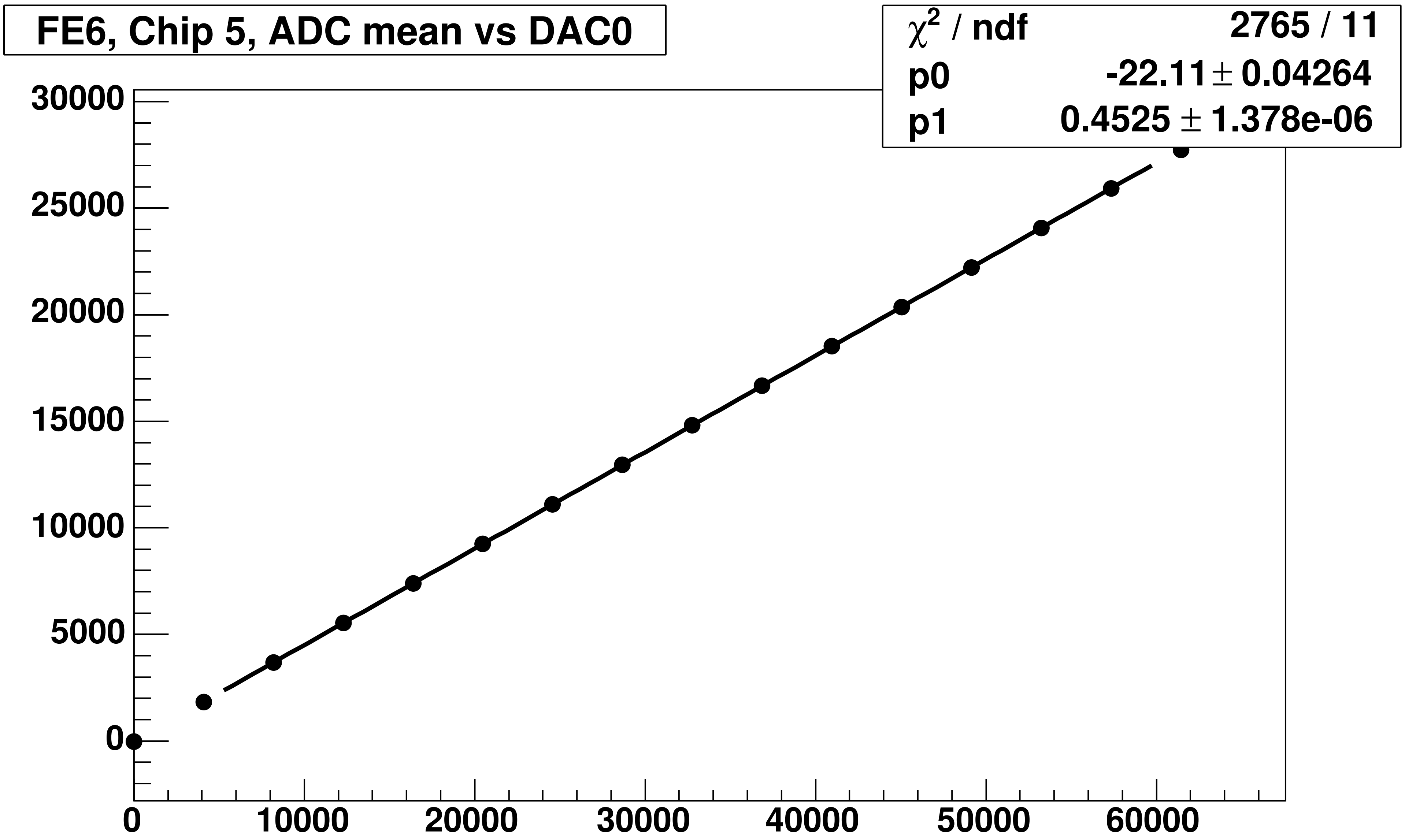
FE6, Chip 4, ADC mean vs DAC1
χ^2 / ndf 21.35 / 11
p0 -18.34 ± 0.0406
p1 -7.071e-07 ± 1.123e-06
-18.15
-18.2
-18.25
-18.3
-18.35
-18.4
-18.45
-18.5
-18.55
-18.6
0
10000
20000
30000
40000
50000
60000



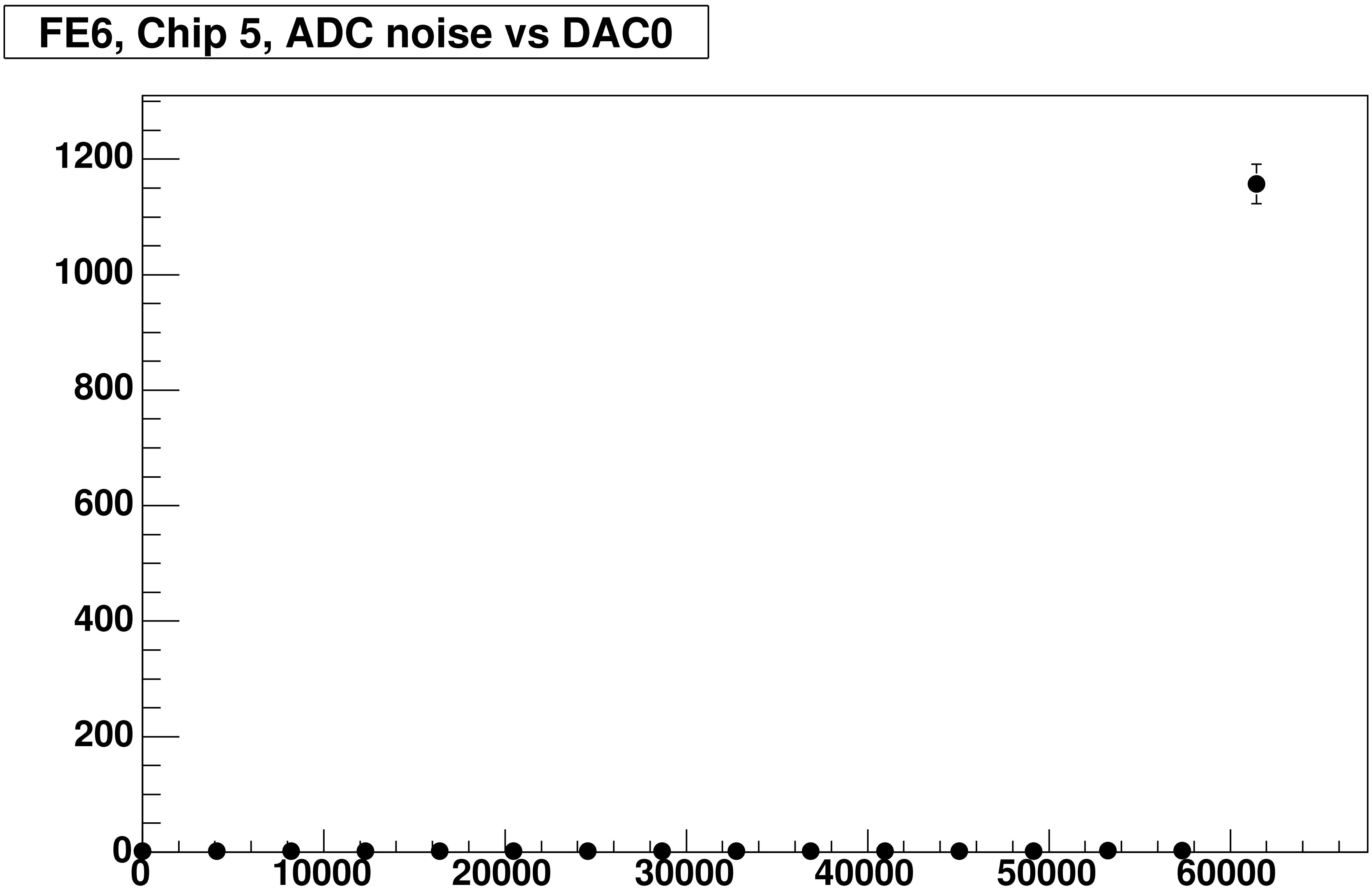
FE6, Chip 4, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

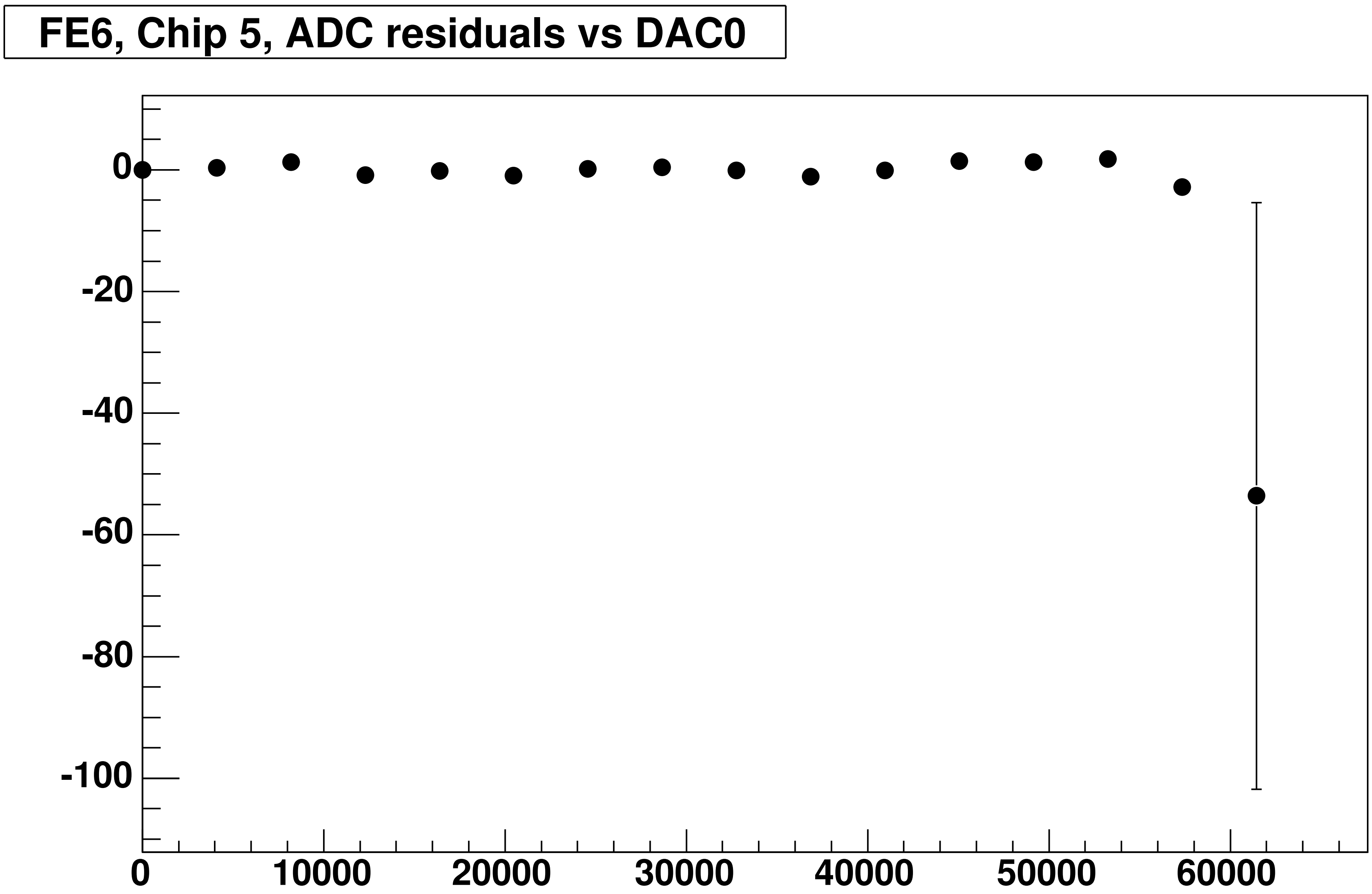


FE6, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

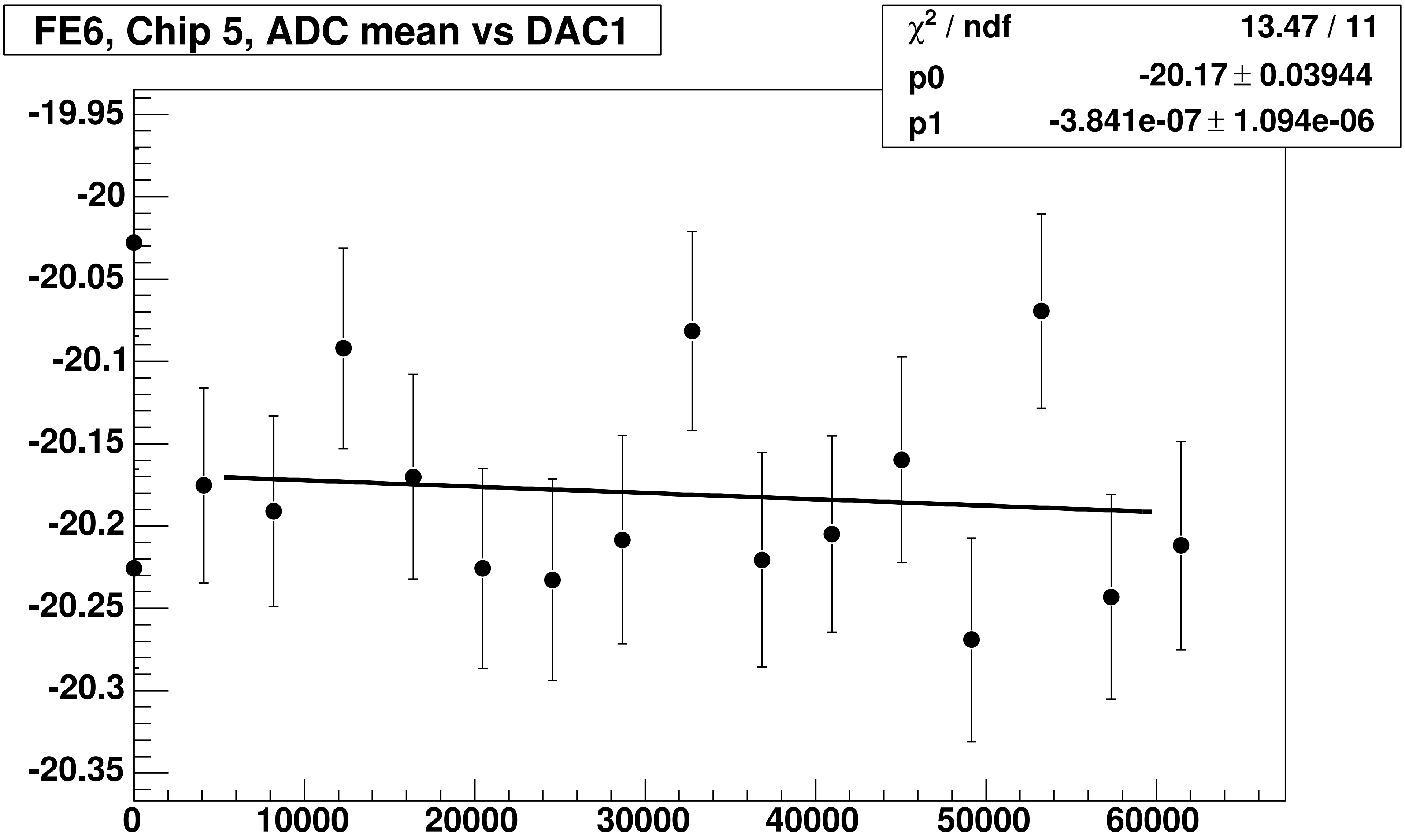


FE6, Chip 5, ADC mean vs DAC0
χ^2 / ndf 2765 / 11
p0 -22.11 ± 0.04264
p1 0.4525 ± 1.378e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

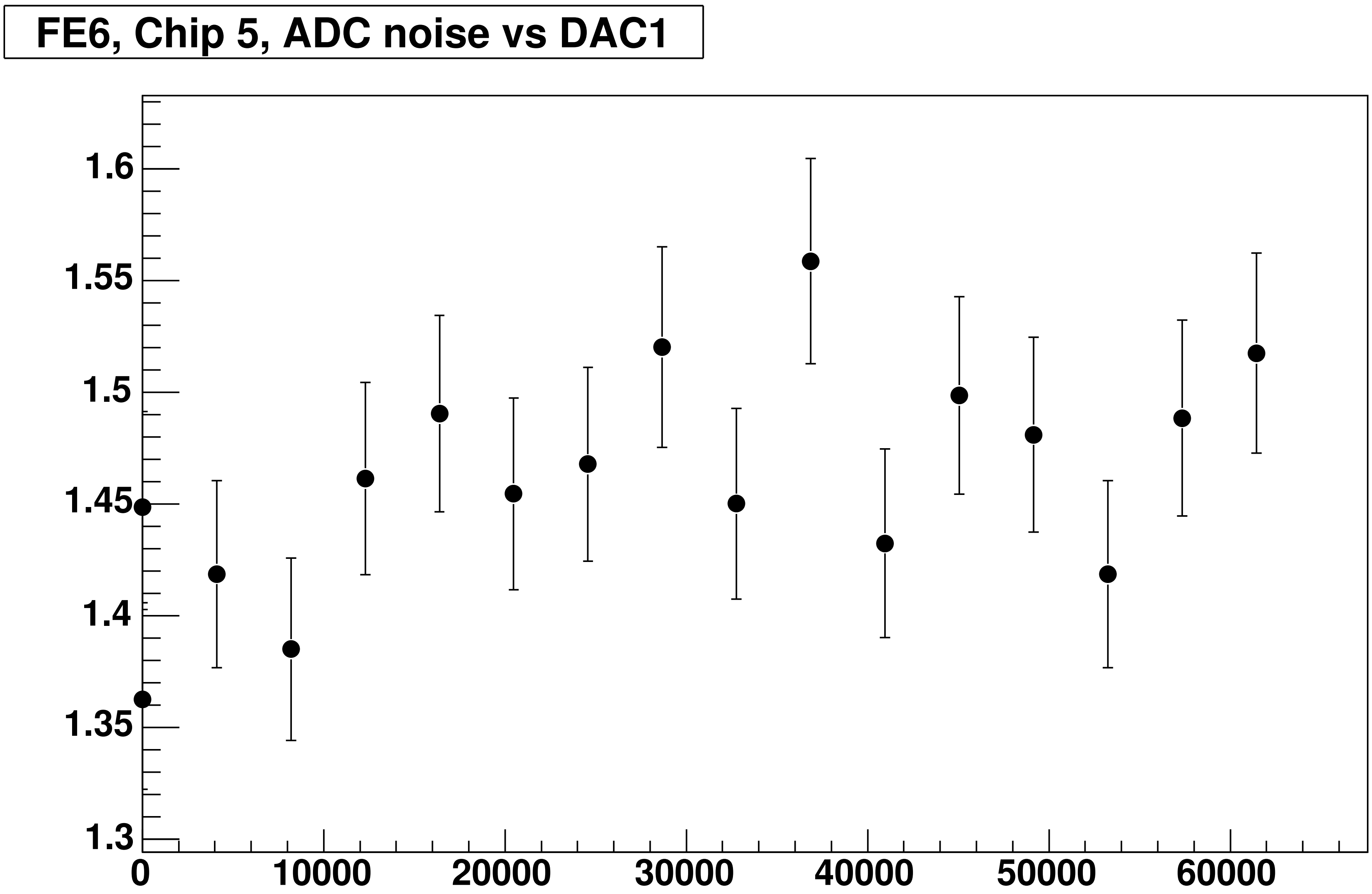

FE6, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000



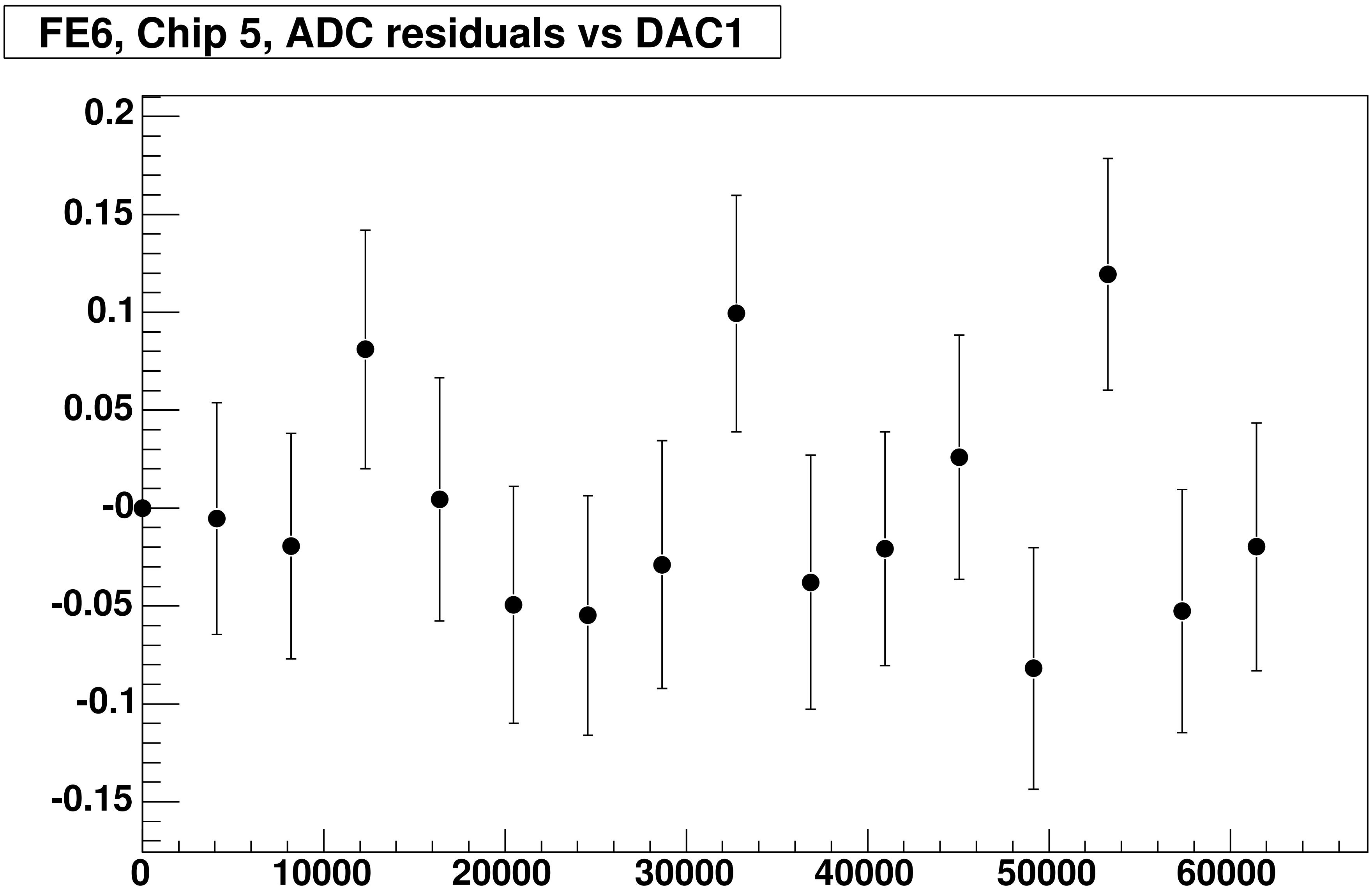
FE6, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000



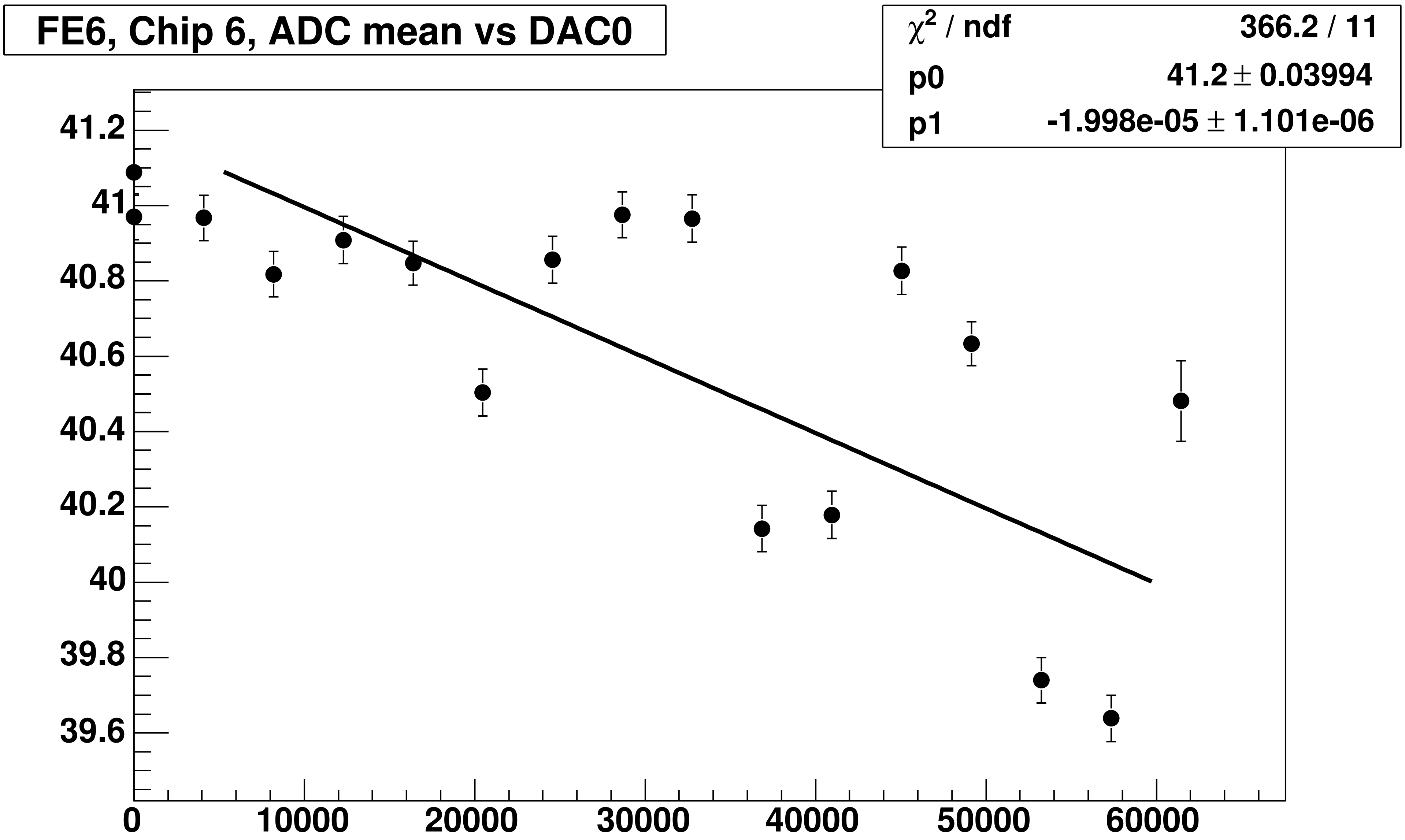
FE6, Chip 5, ADC mean vs DAC1
χ2 / ndf 13.47 / 11
p0 -20.17 ± 0.03944
p1 -3.841e-07 ± 1.094e-06
-19.95
-20
-20.05
-20.1
-20.15
-20.2
-20.25
-20.3
-20.35
0
10000
20000
30000
40000
50000
60000



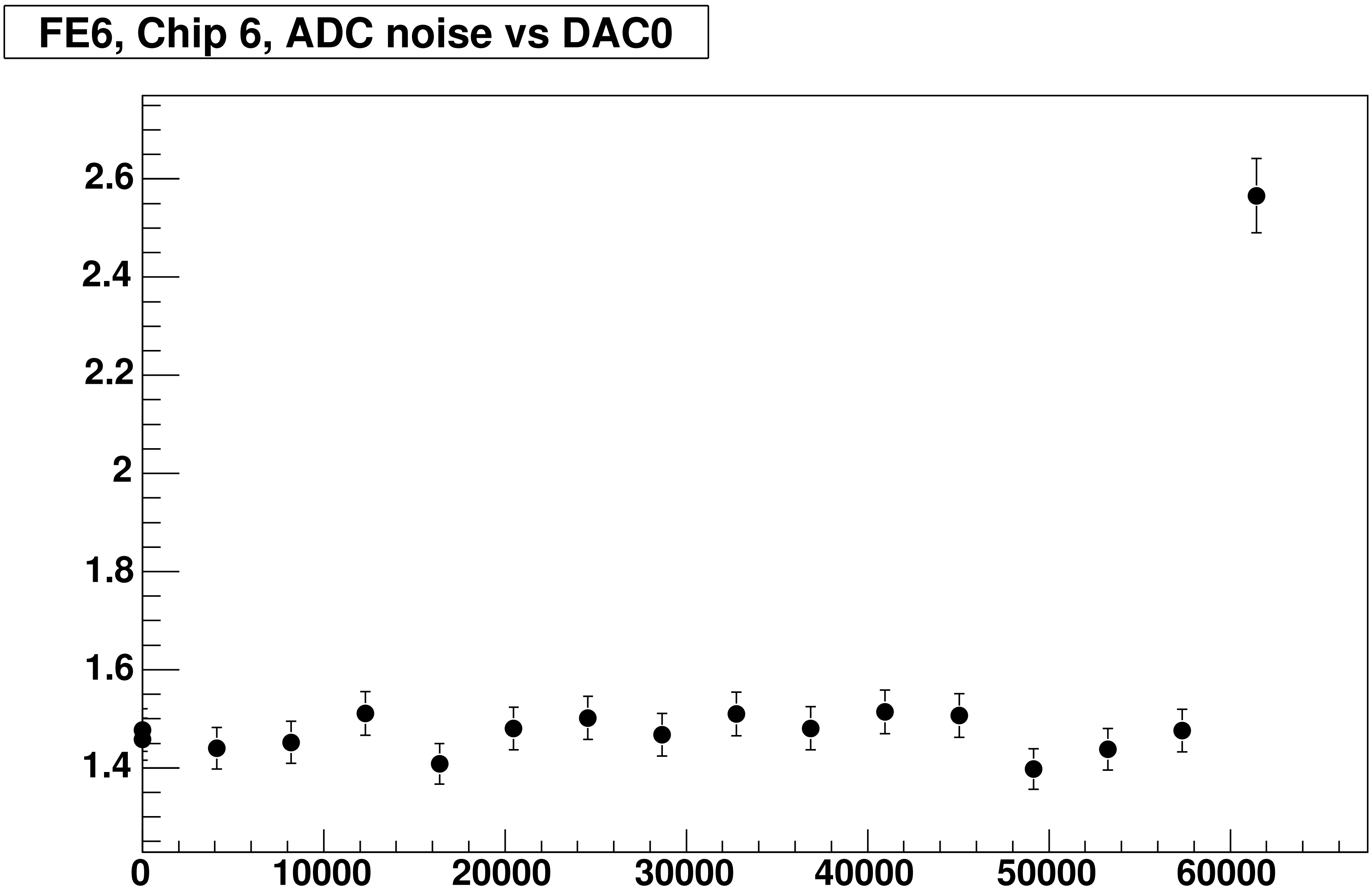
FE6, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



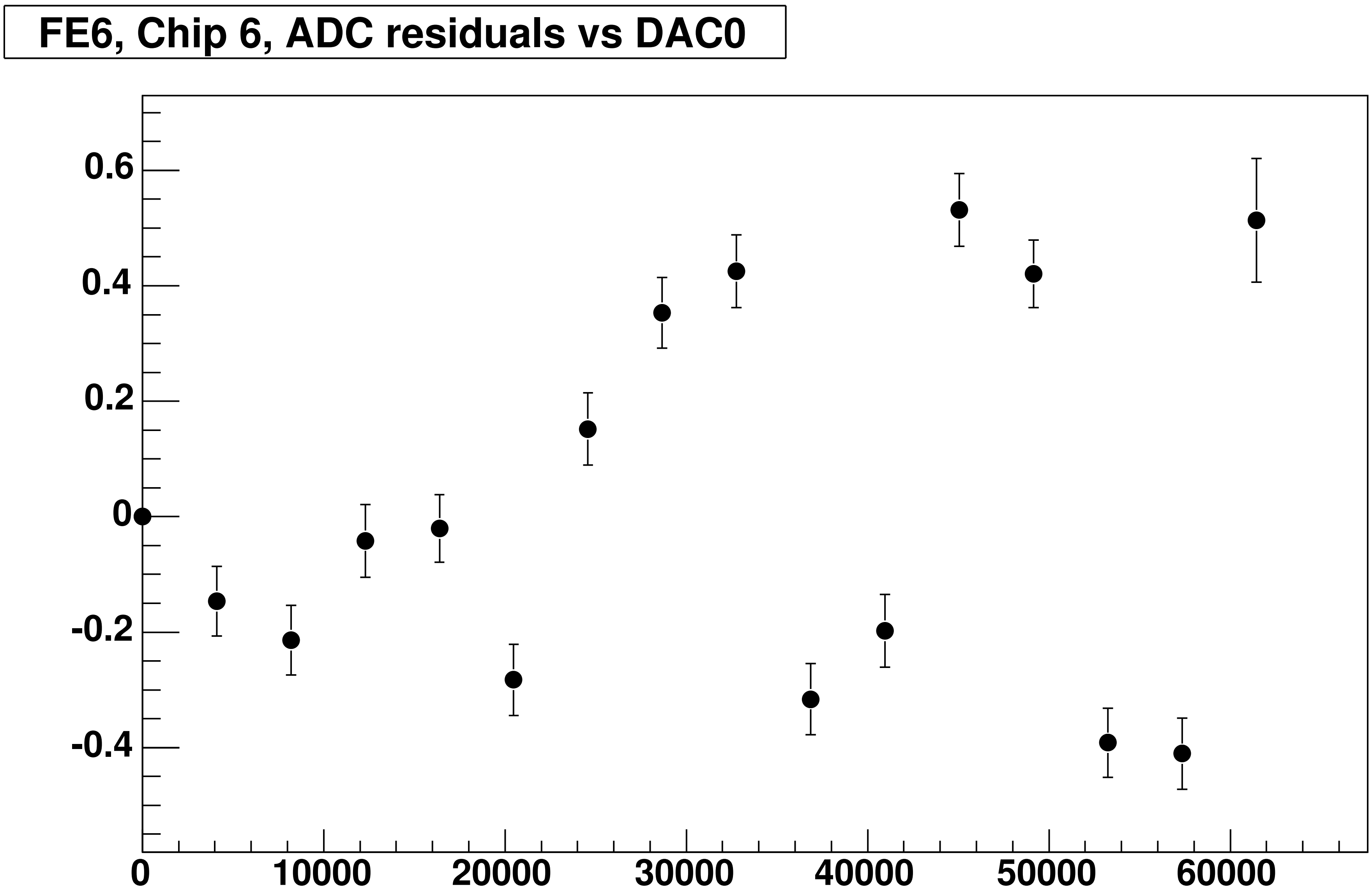
FE6, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

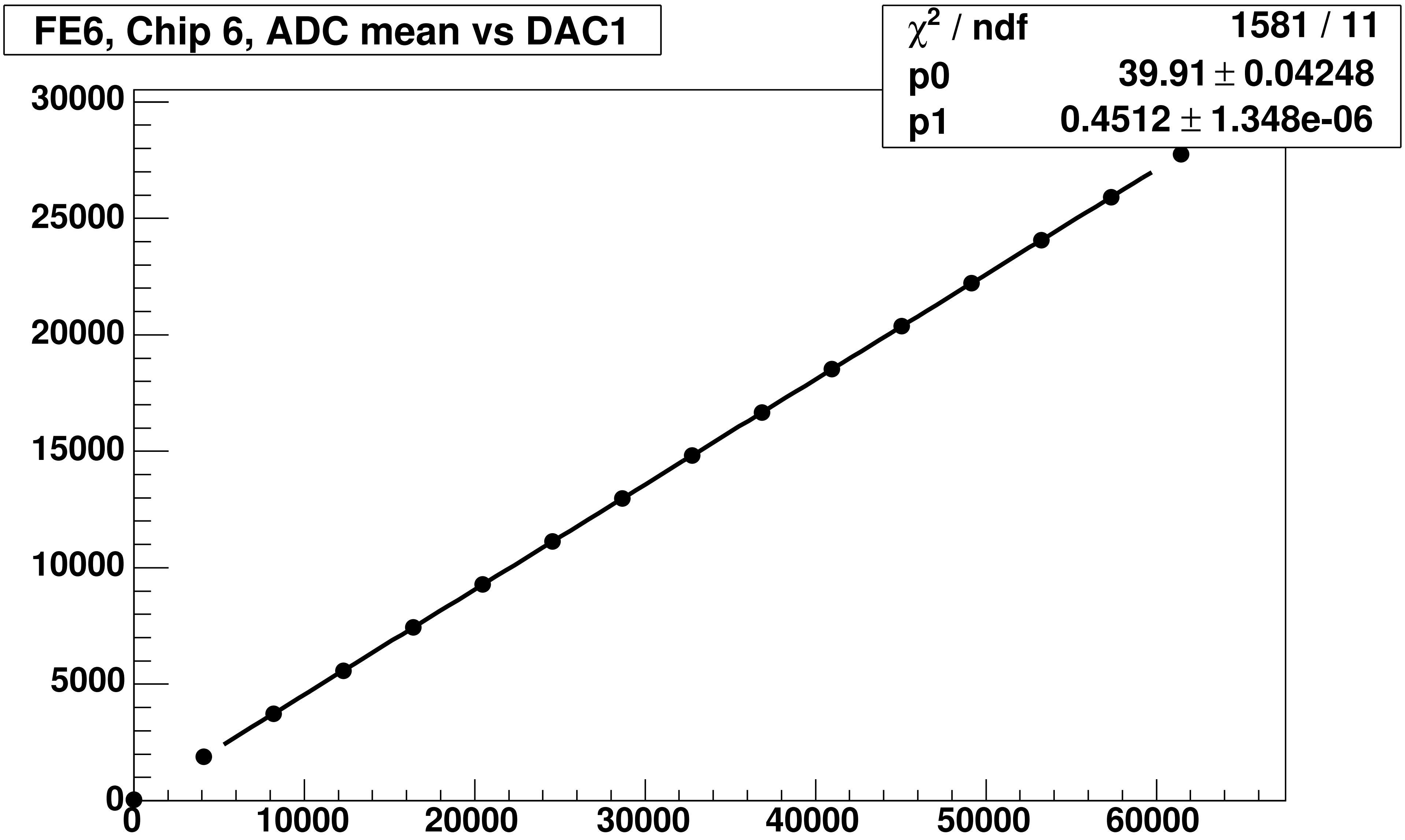


FE6, Chip 6, ADC mean vs DAC0
χ^2 / ndf 366.2 / 11
p0 41.2 ± 0.03994
p1 -1.998e-05 ± 1.101e-06
41.2
41
40.8
40.6
40.4
40.2
40
39.8
39.6
0
10000
20000
30000
40000
50000
60000

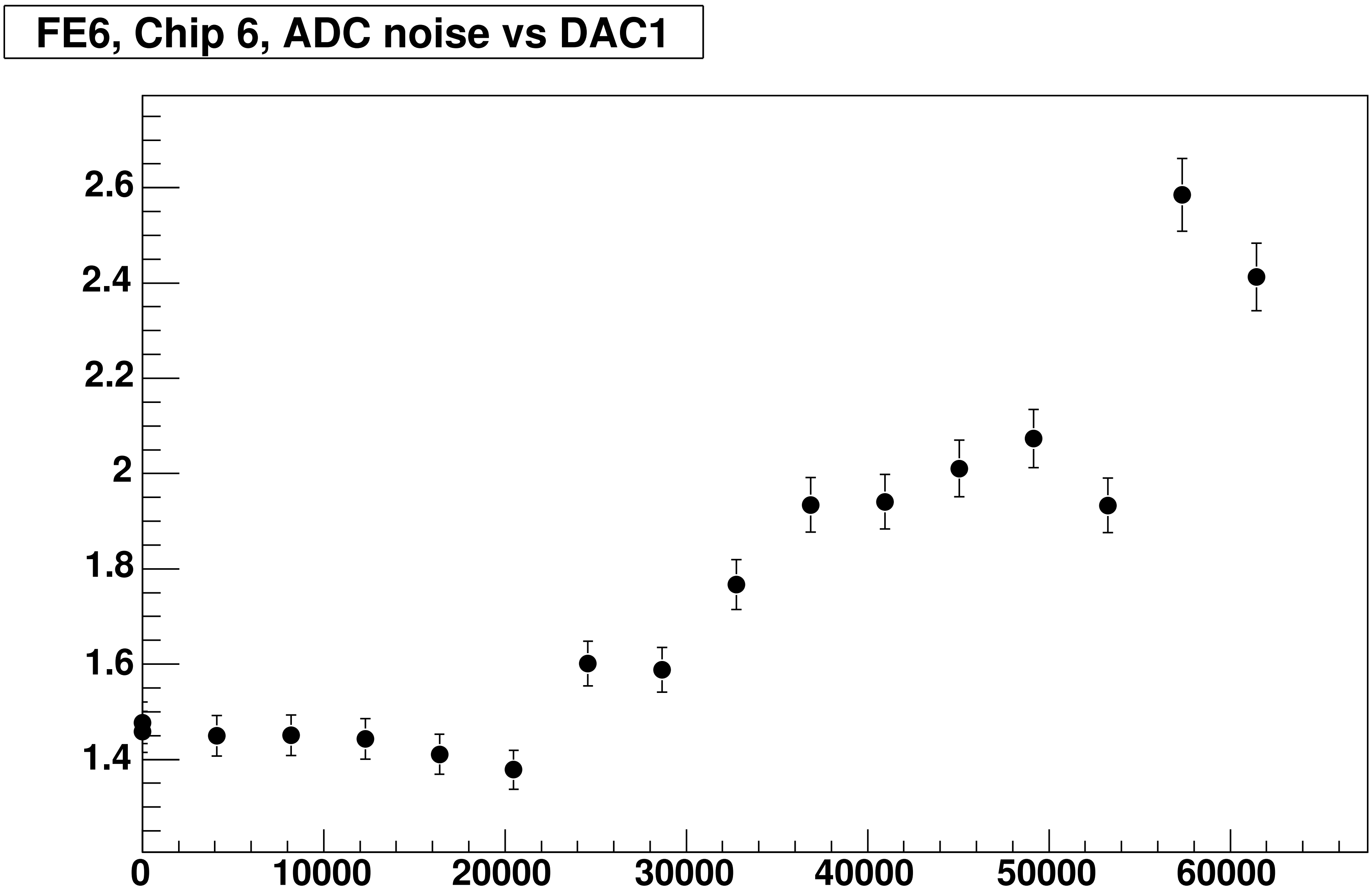


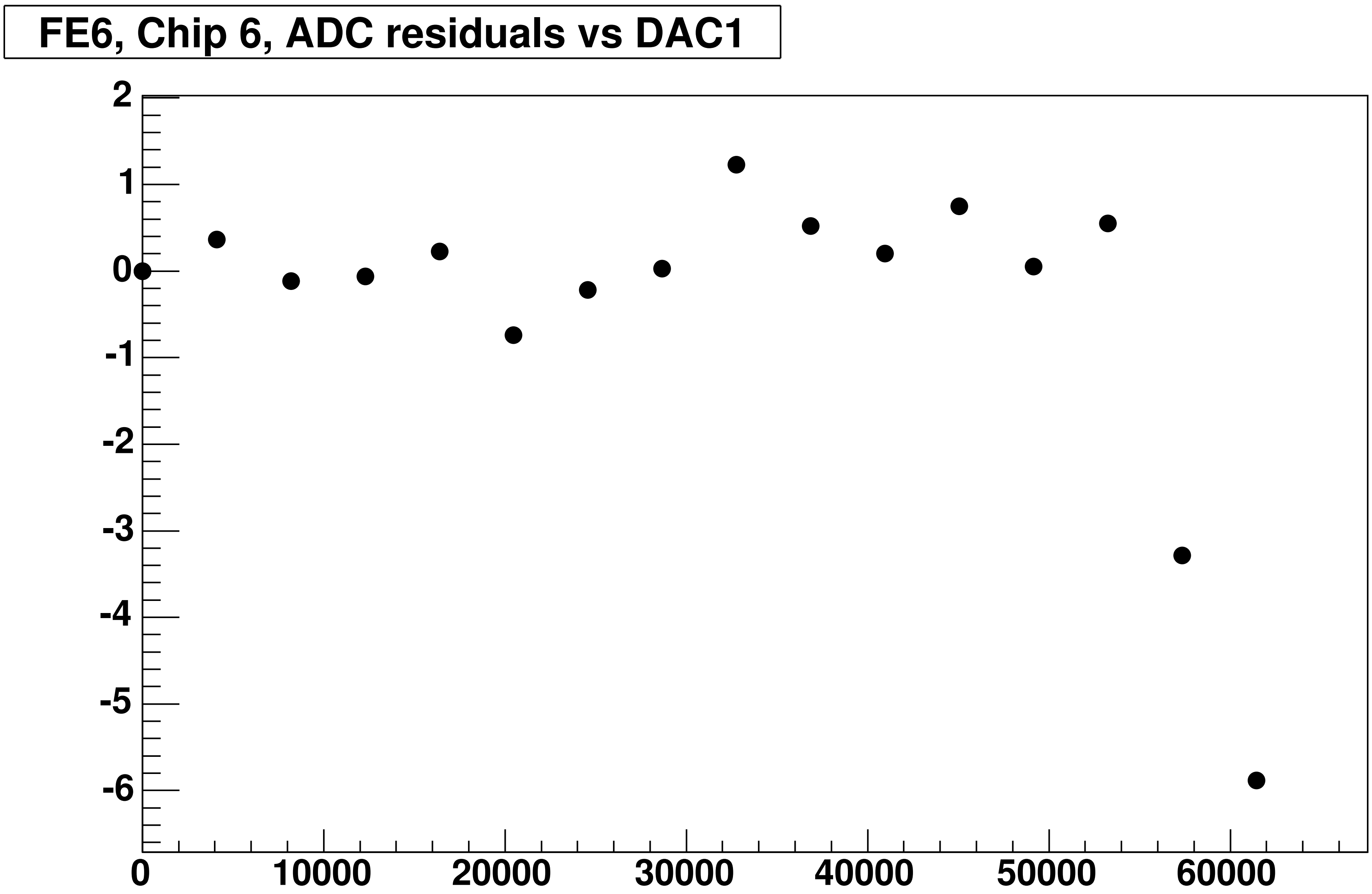
FE6, Chip 6, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

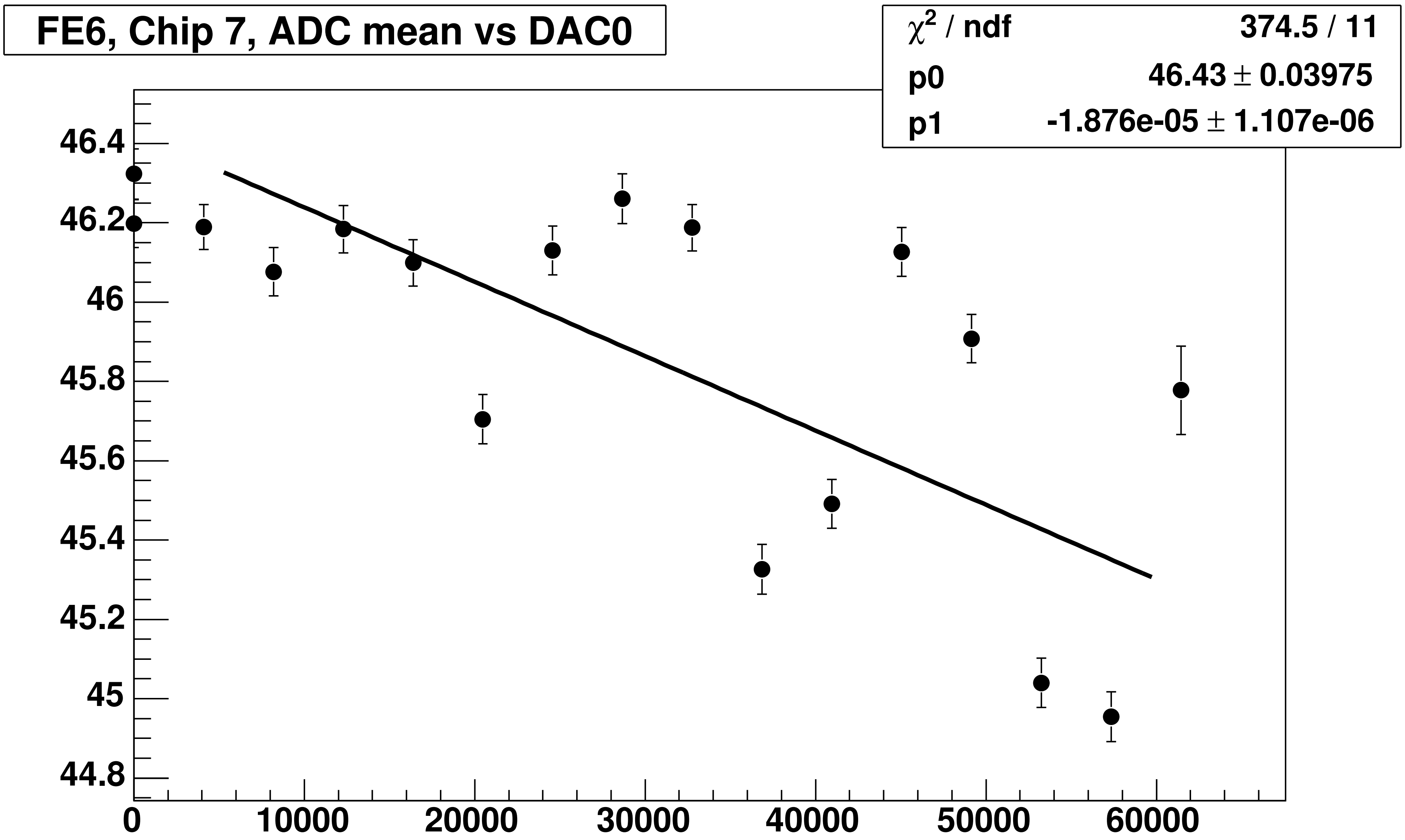

FE6, Chip 6, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000



FE6, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1581 / 11
p0 39.91 ± 0.04248
p1 0.4512 ± 1.348e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

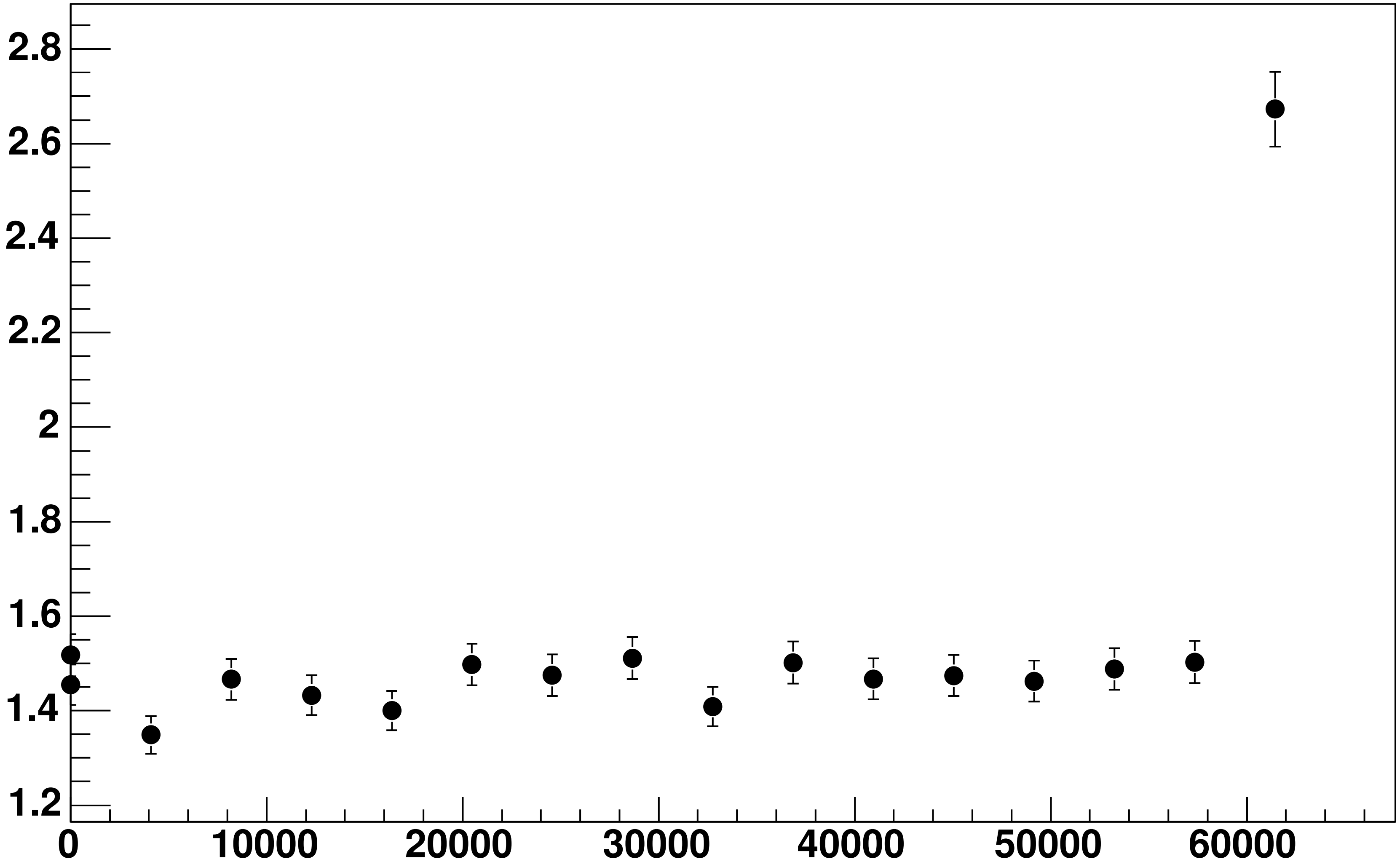

FE6, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

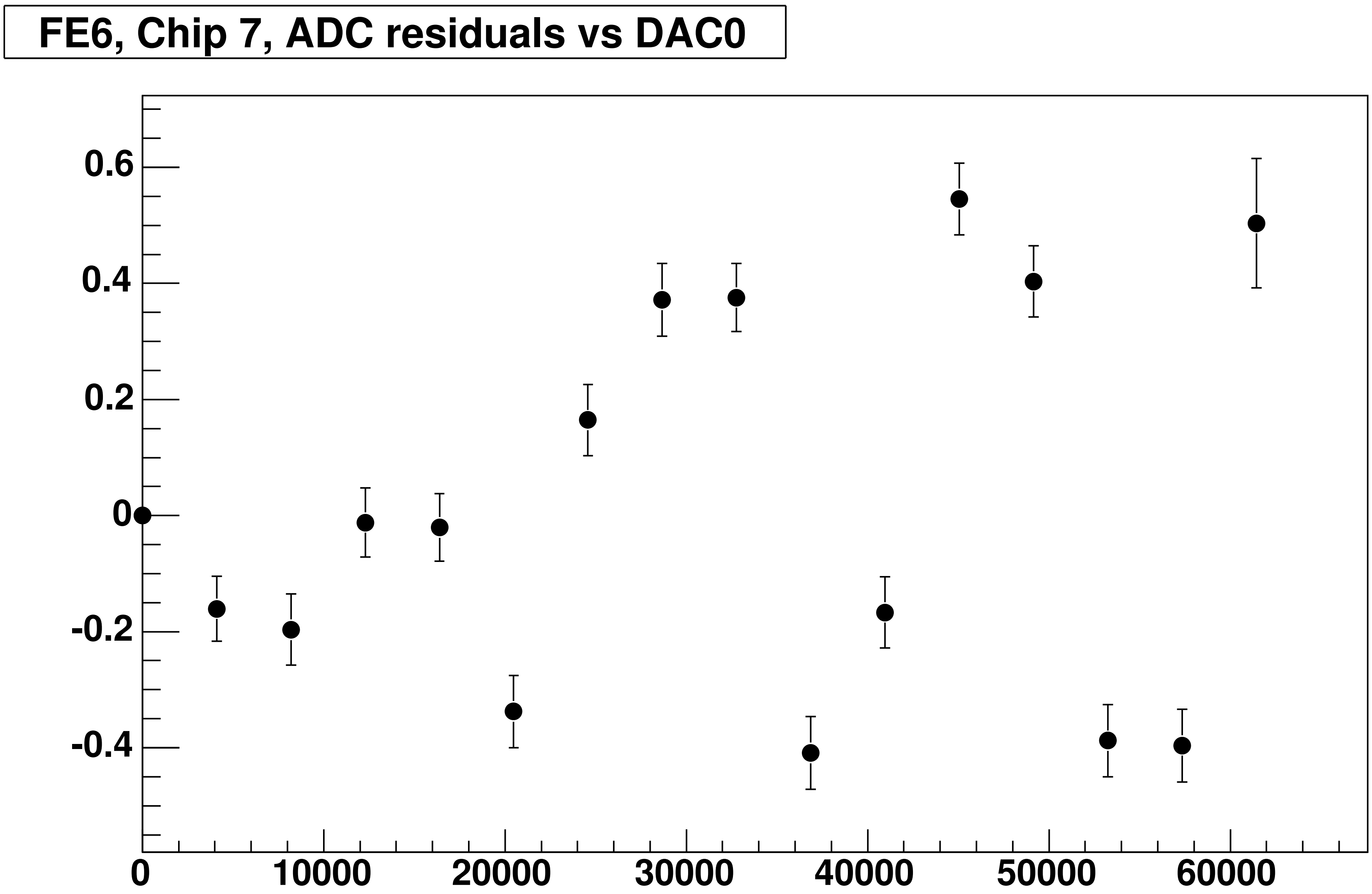

FE6, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



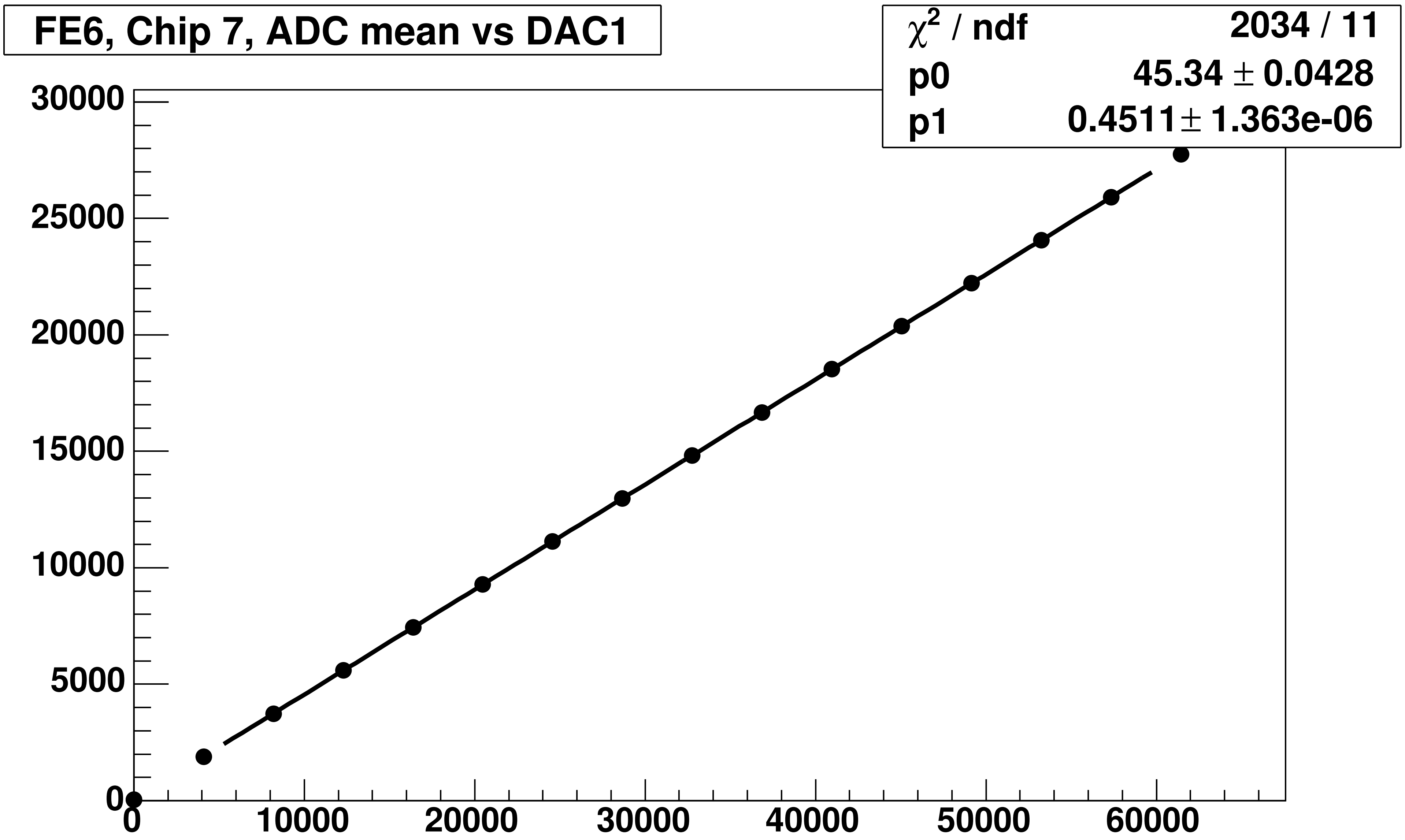
FE6, Chip 7, ADC mean vs DAC0
χ^2 / ndf 374.5 / 11
p0 46.43 ± 0.03975
p1 -1.876e-05 ± 1.107e-06
46.4
46.2
46
45.8
45.6
45.4
45.2
45
44.8
0
10000
20000
30000
40000
50000
60000

FE6, Chip 7, ADC noise vs DAC0

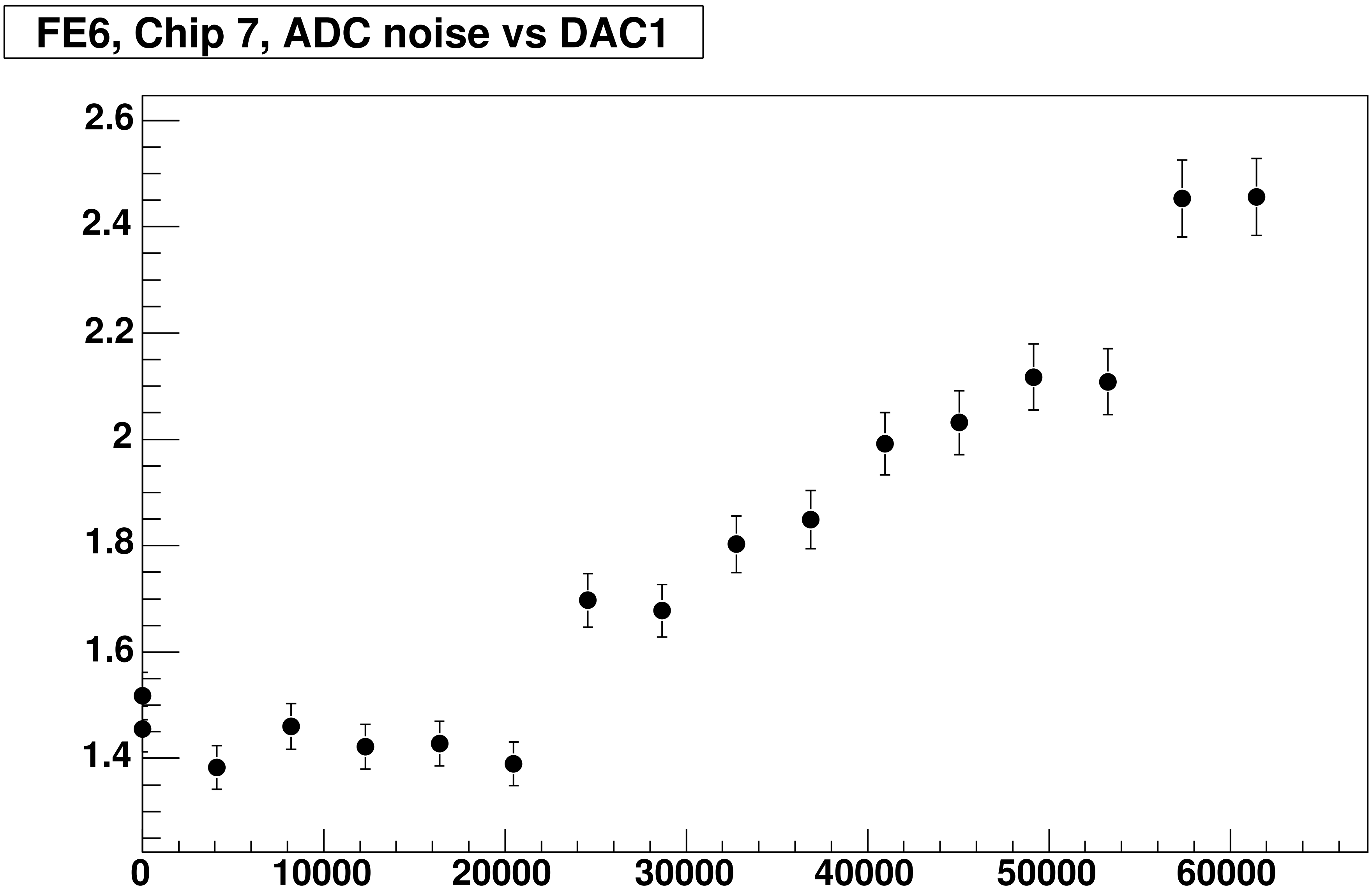


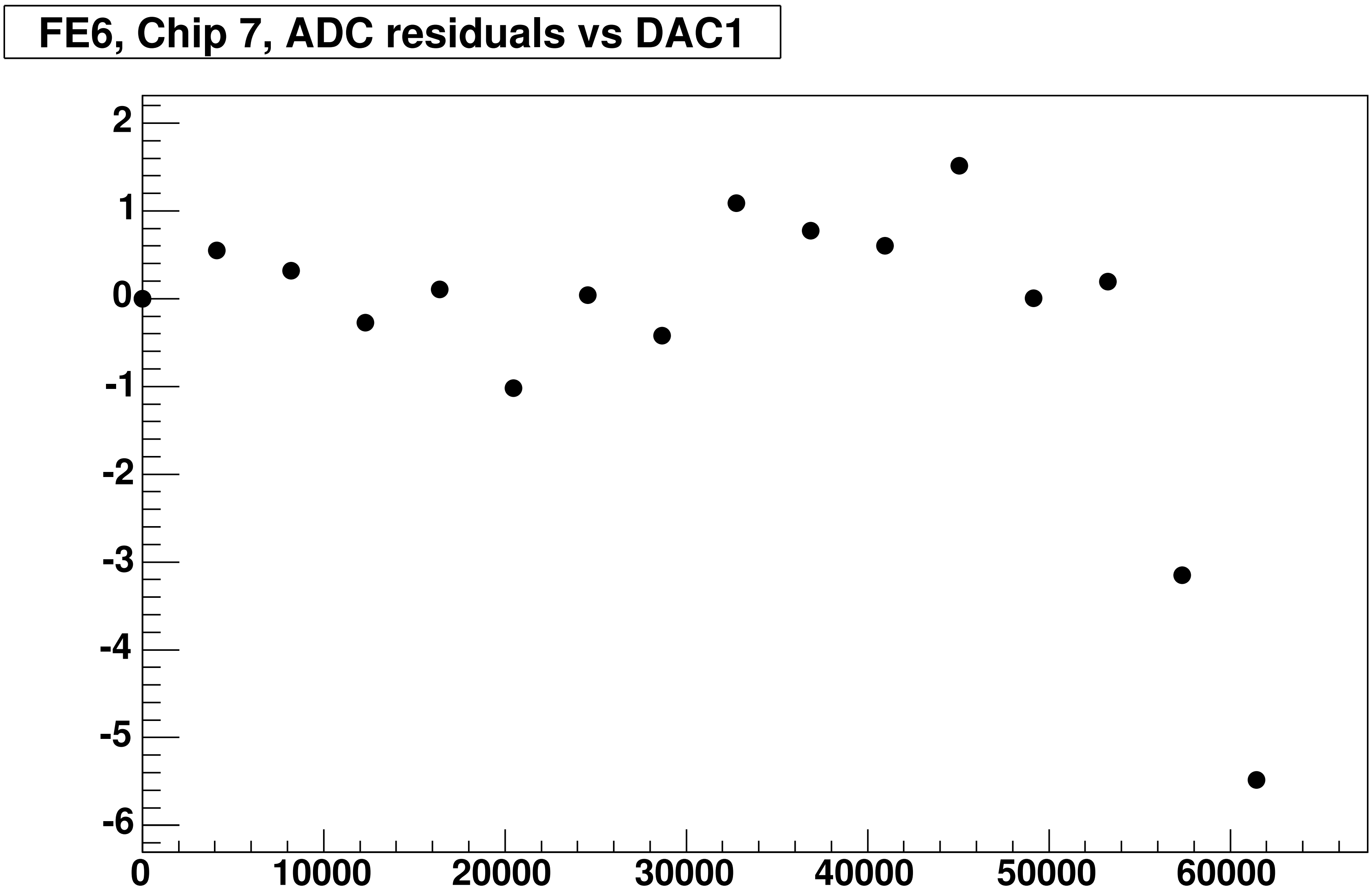


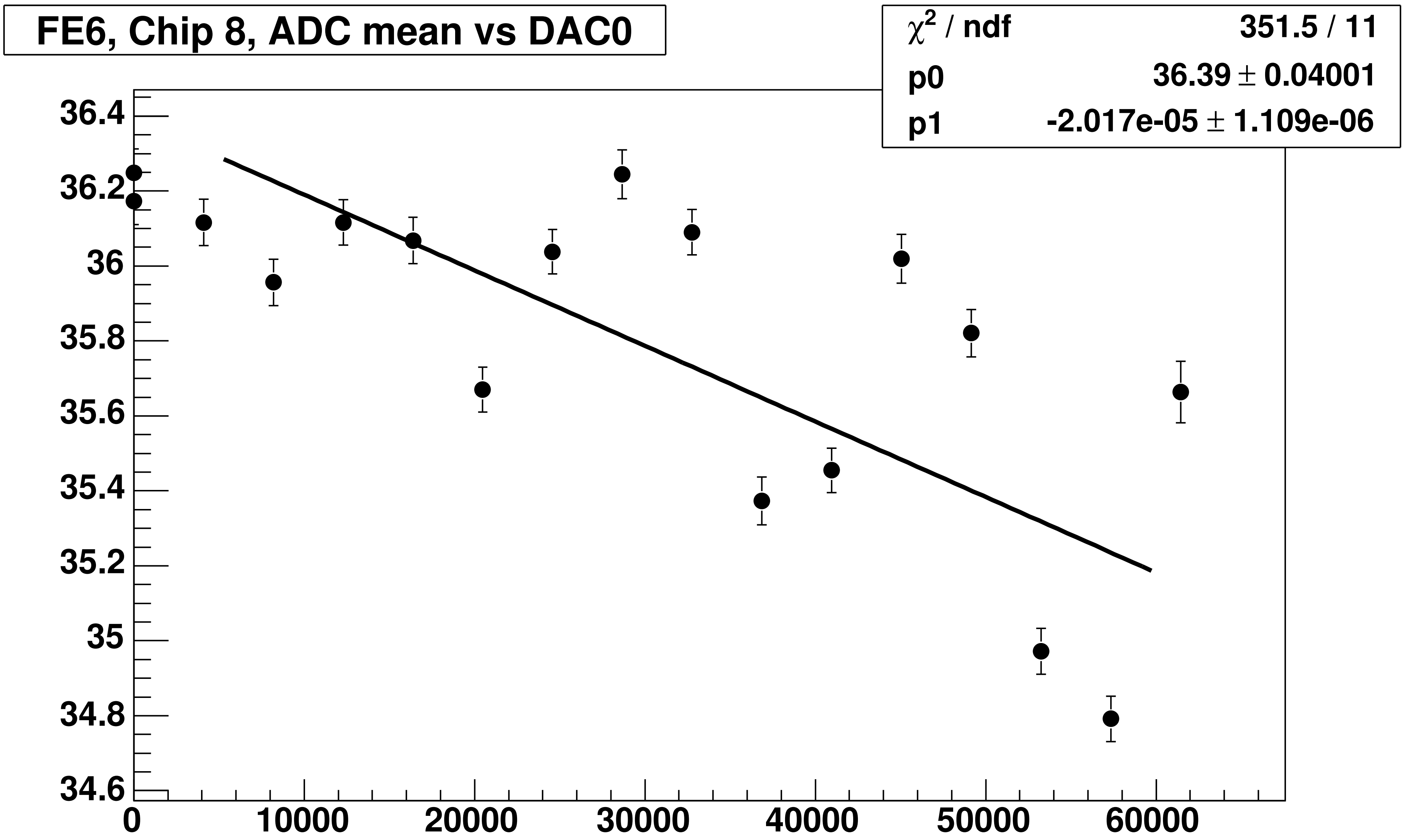
FE6, Chip 7, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000



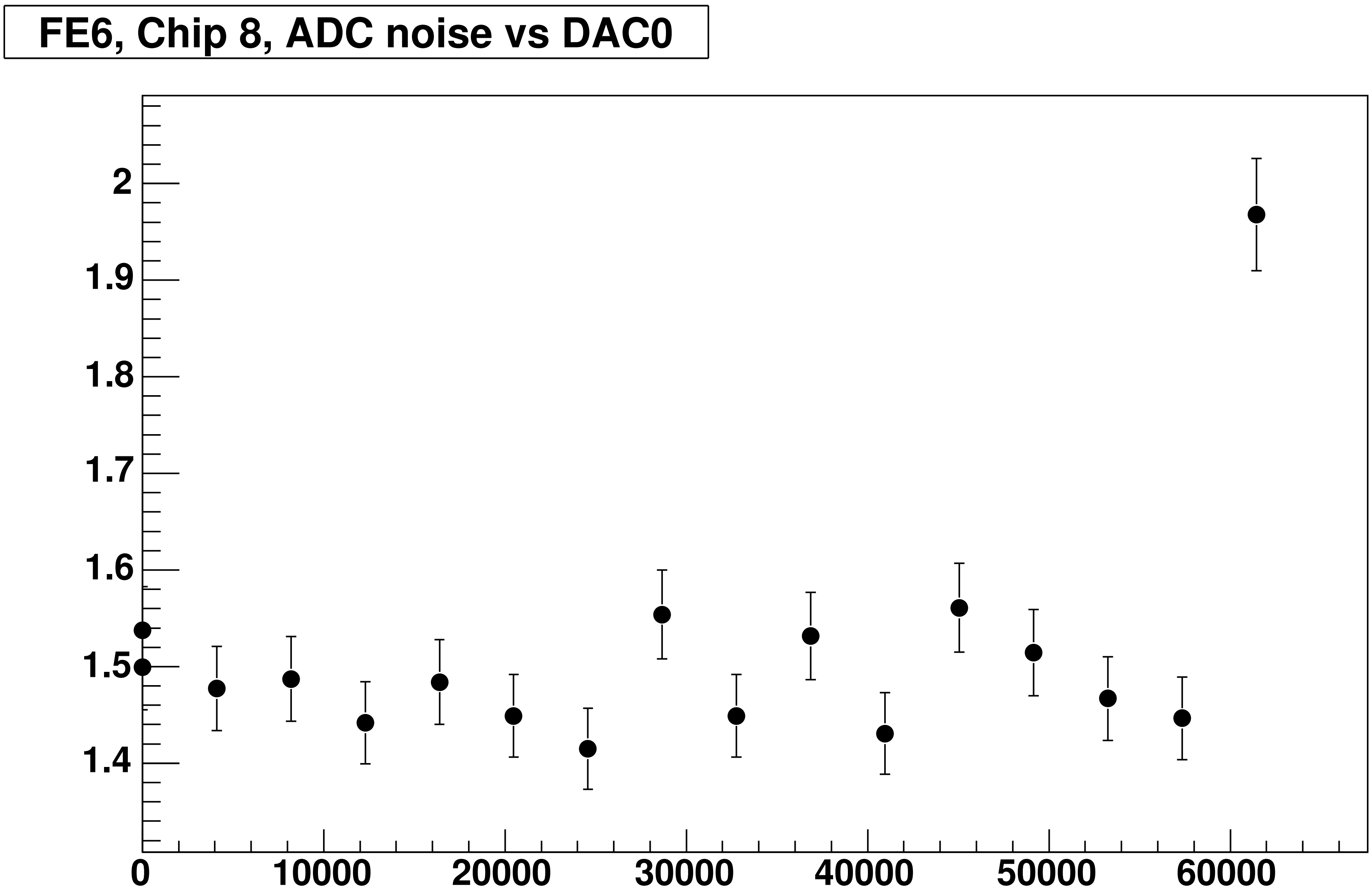
FE6, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2034 / 11
p0 45.34 ± 0.0428
p1 0.4511 ± 1.363e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

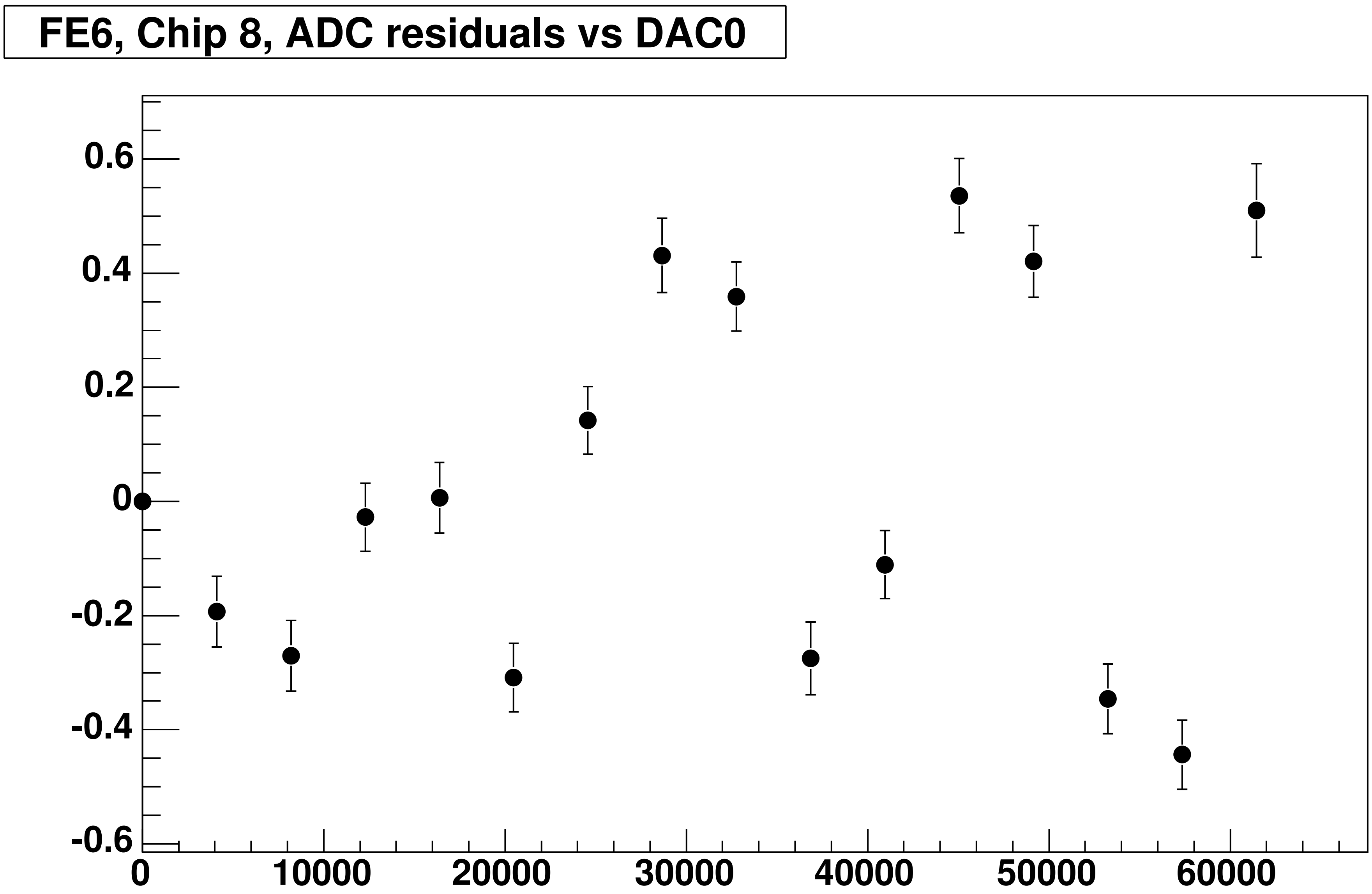

FE6, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



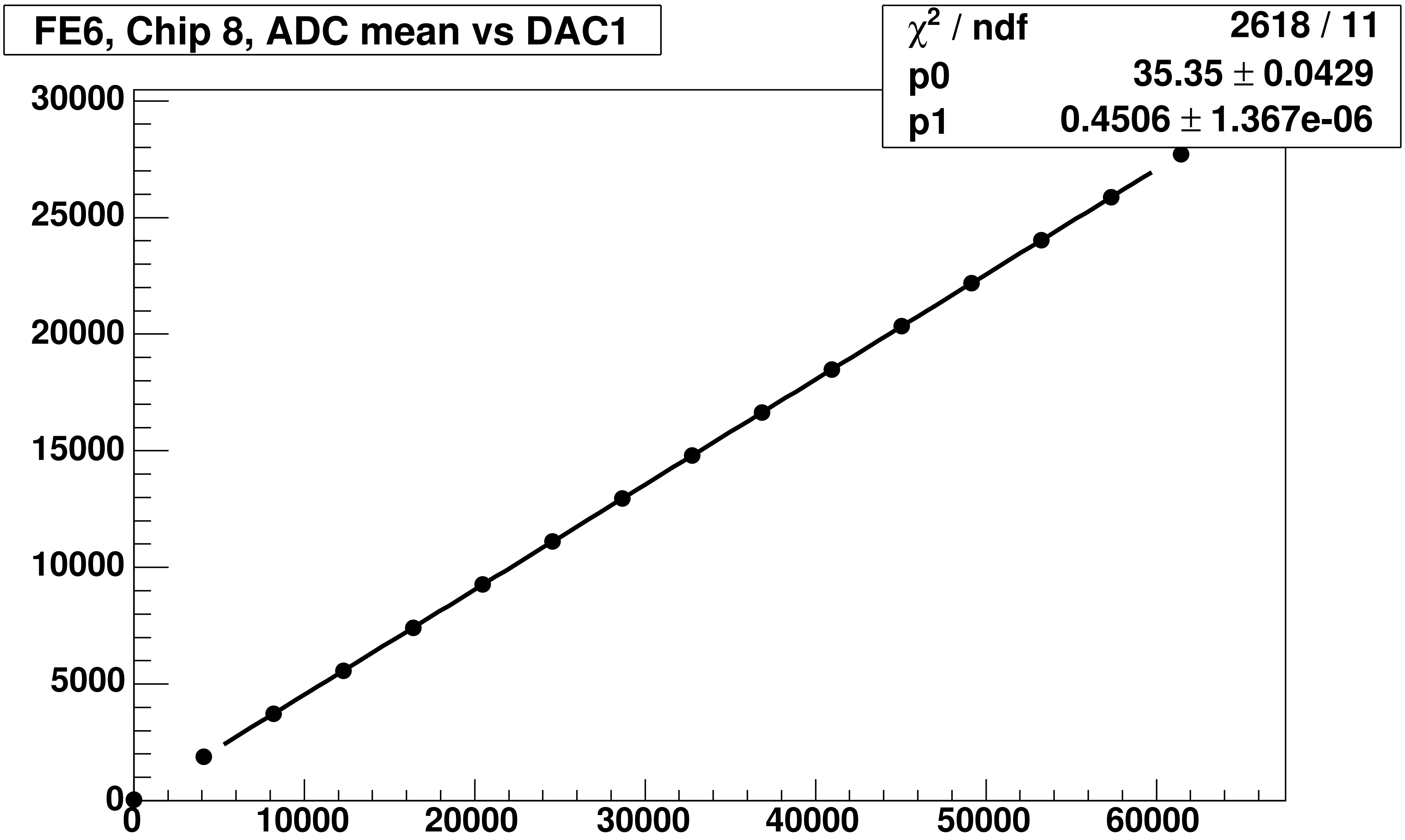
FE6, Chip 8, ADC mean vs DAC0
χ² / ndf 351.5 / 11
p0 36.39 ± 0.04001
p1 -2.017e-05 ± 1.109e-06
36.4
36.2
36
35.8
35.6
35.4
35.2
35
34.8
34.6
0
10000
20000
30000
40000
50000
60000

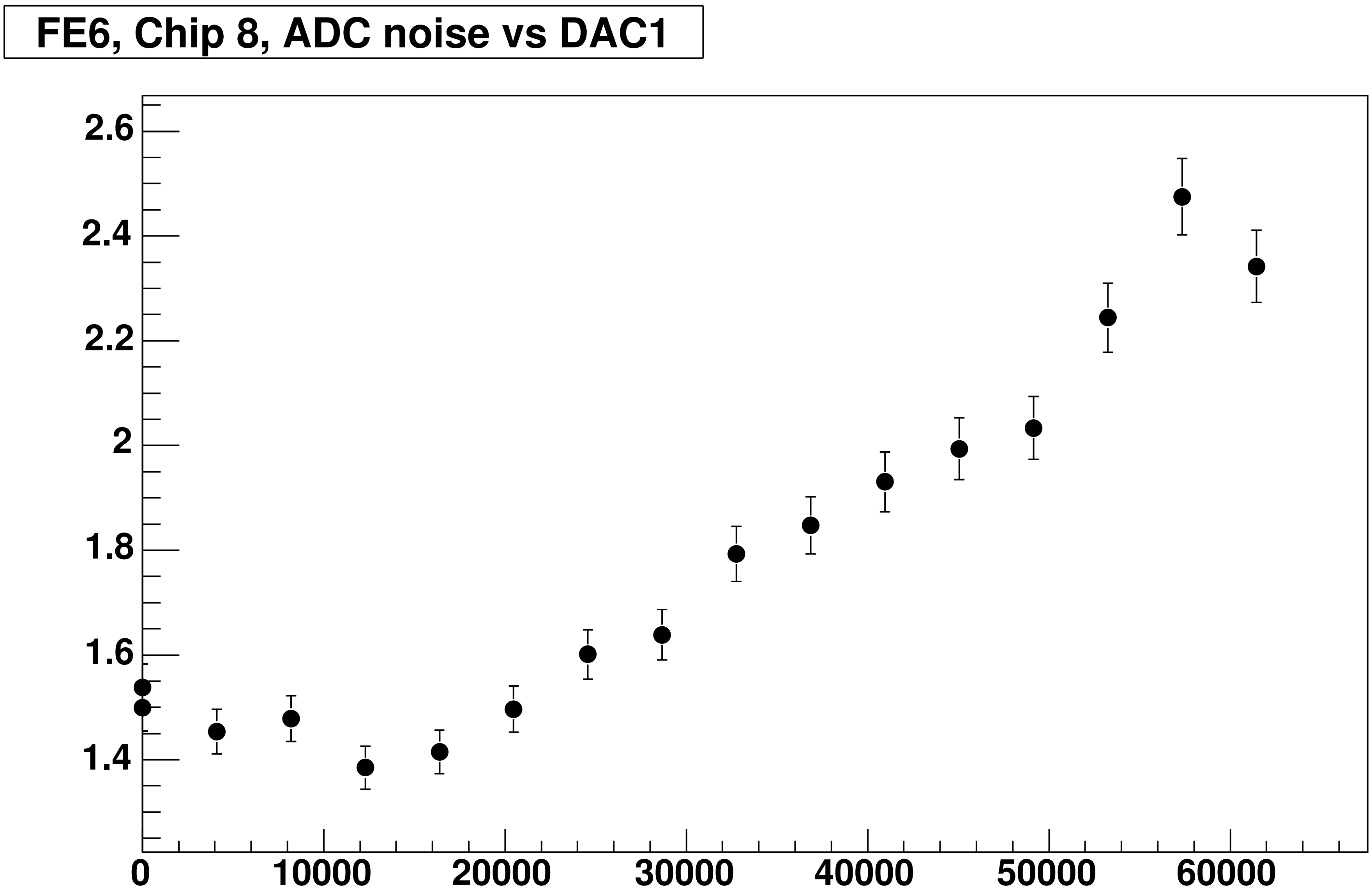


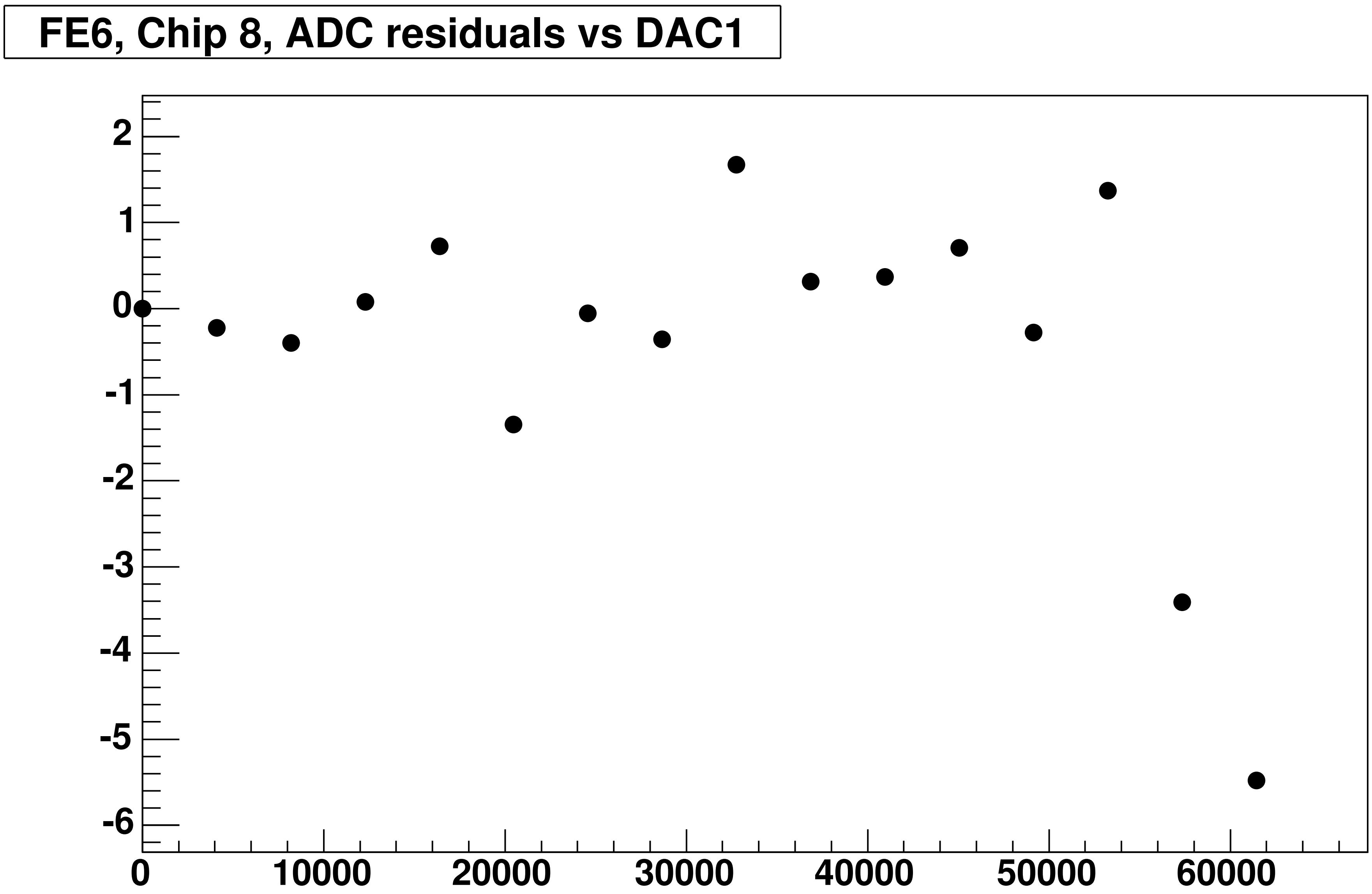
FE6, Chip 8, ADC noise vs DAC0
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000



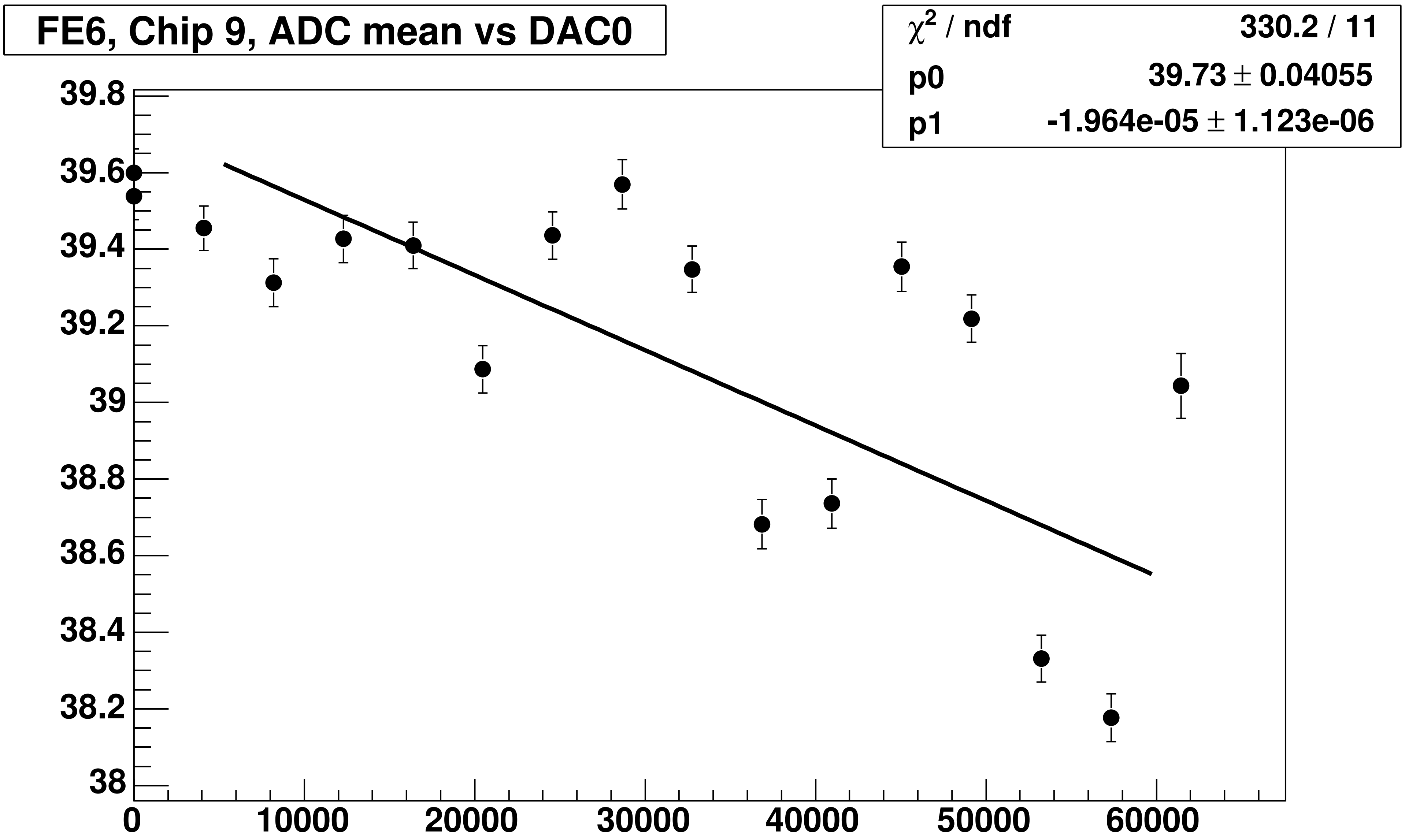
FE6, Chip 8, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000


FE6, Chip 8, ADC mean vs DAC1
χ^2 / ndf 2618 / 11
p0 35.35 ± 0.0429
p1 0.4506 ± 1.367e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

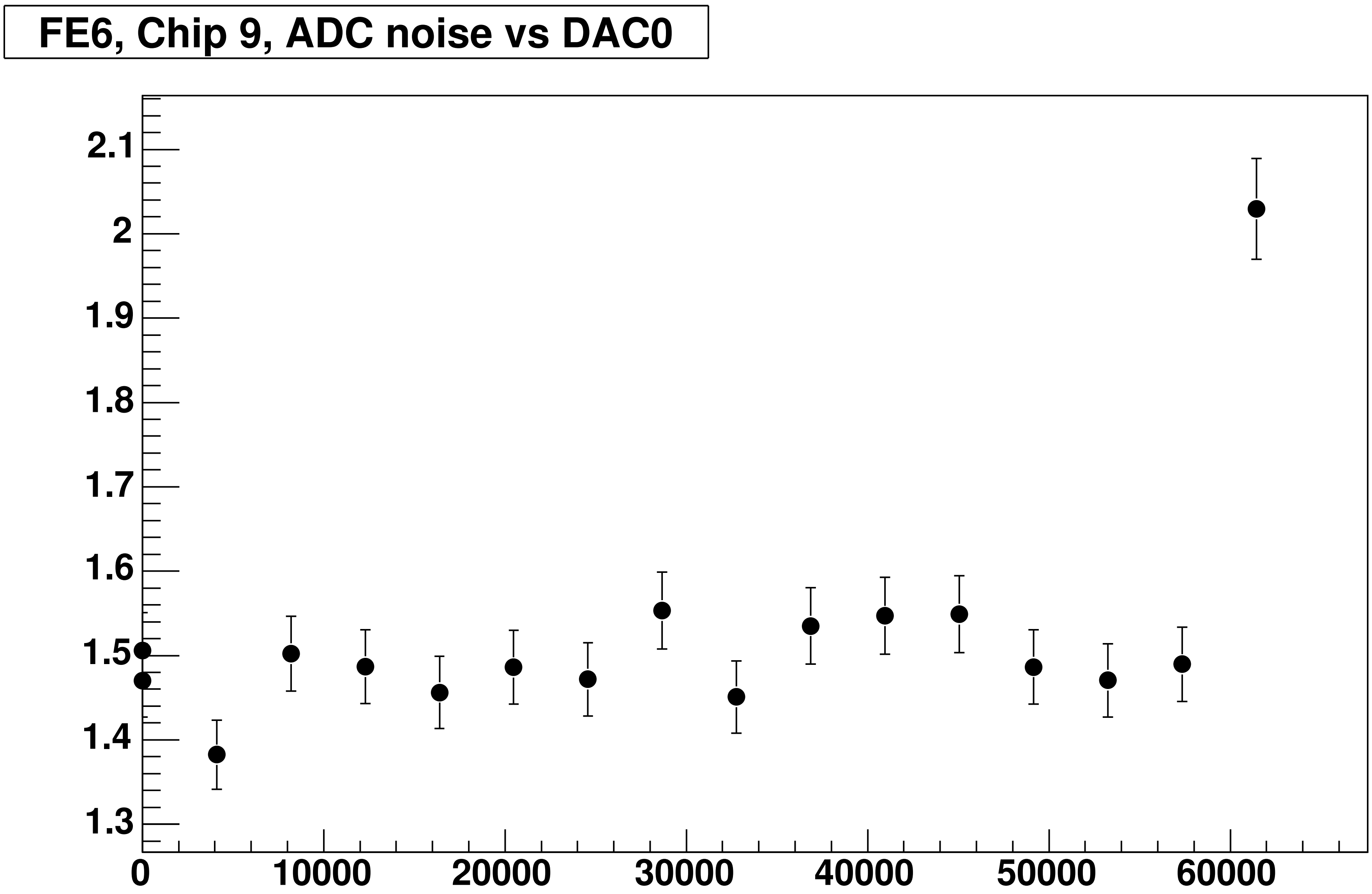

FE6, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



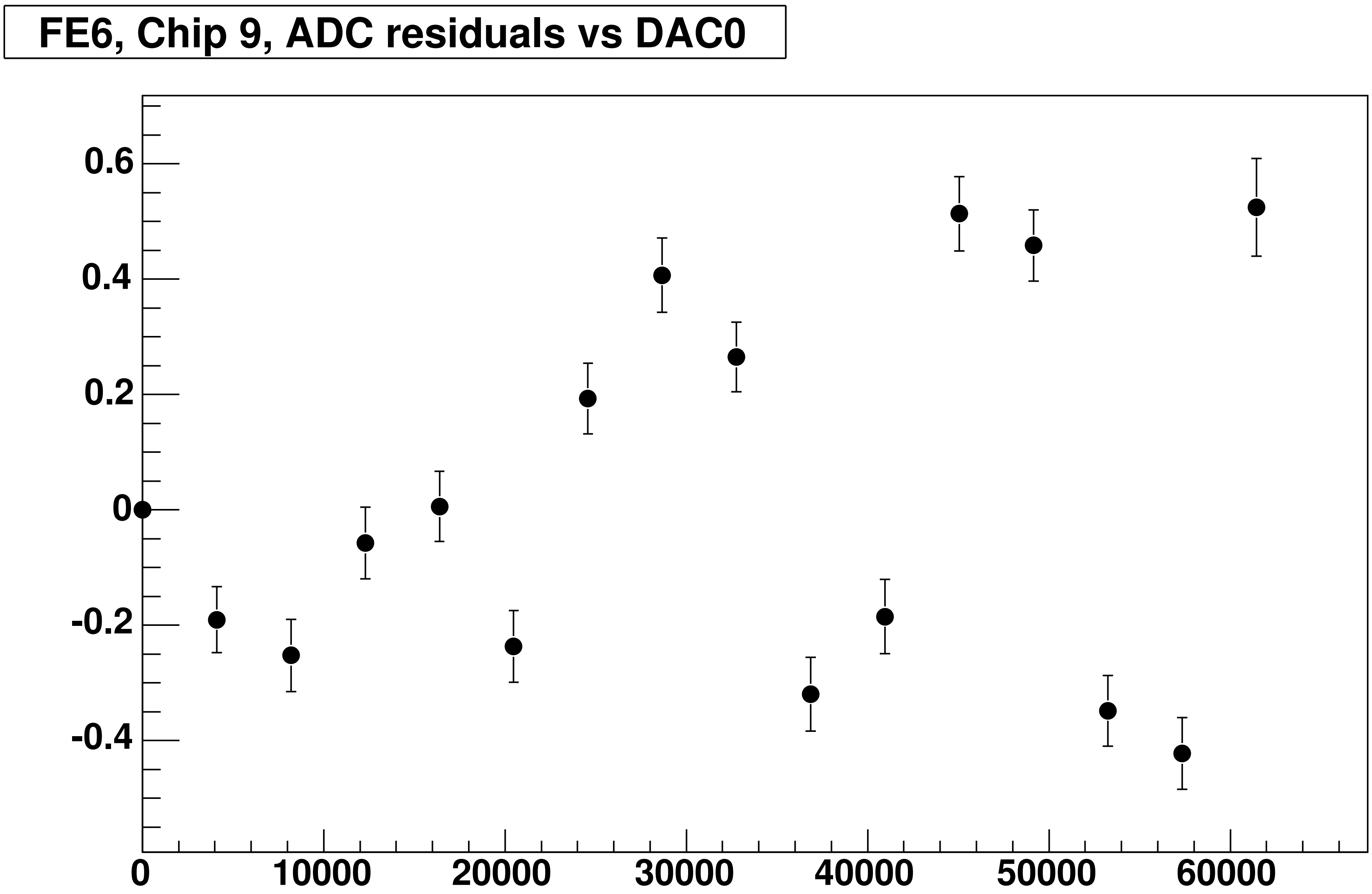
FE6, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

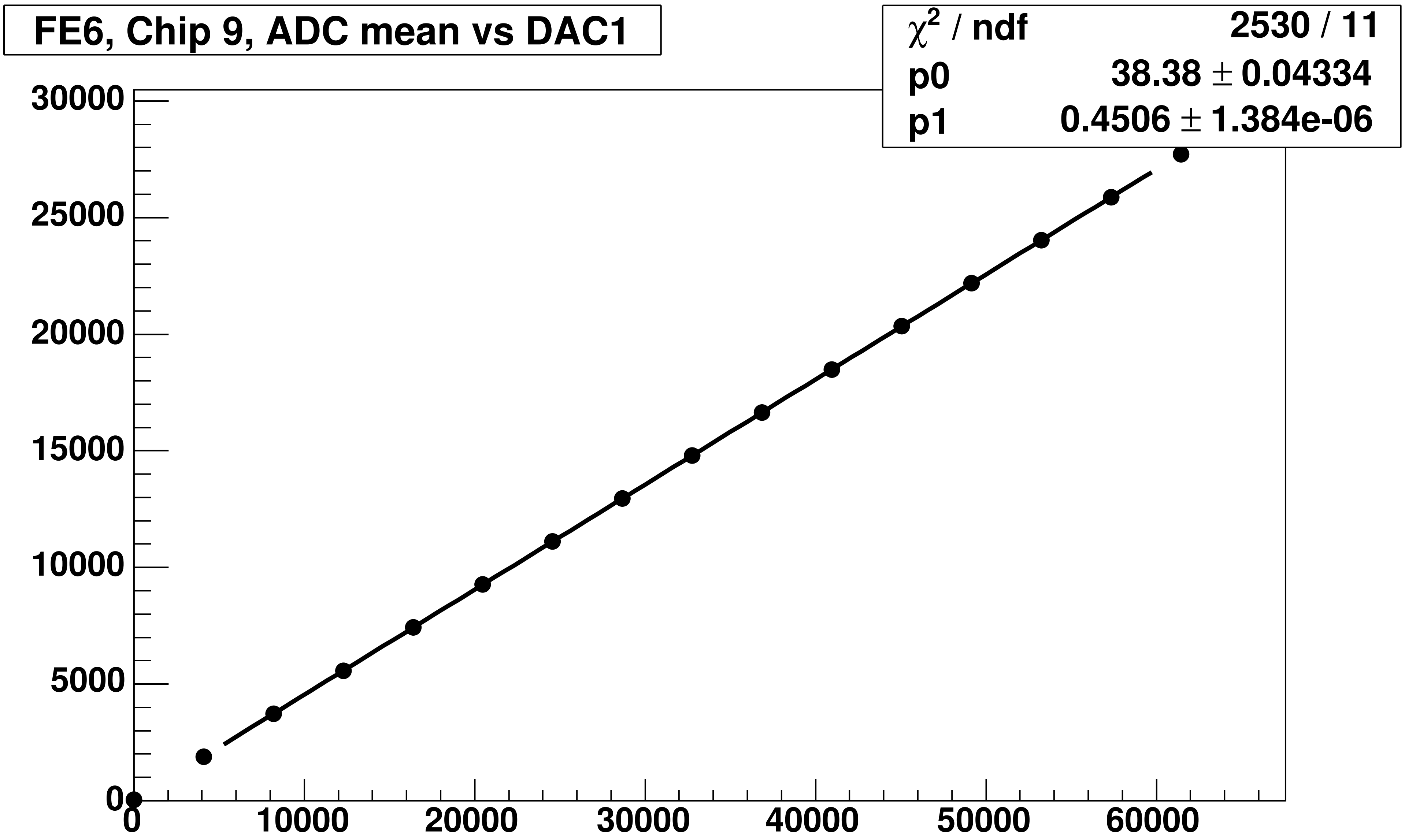


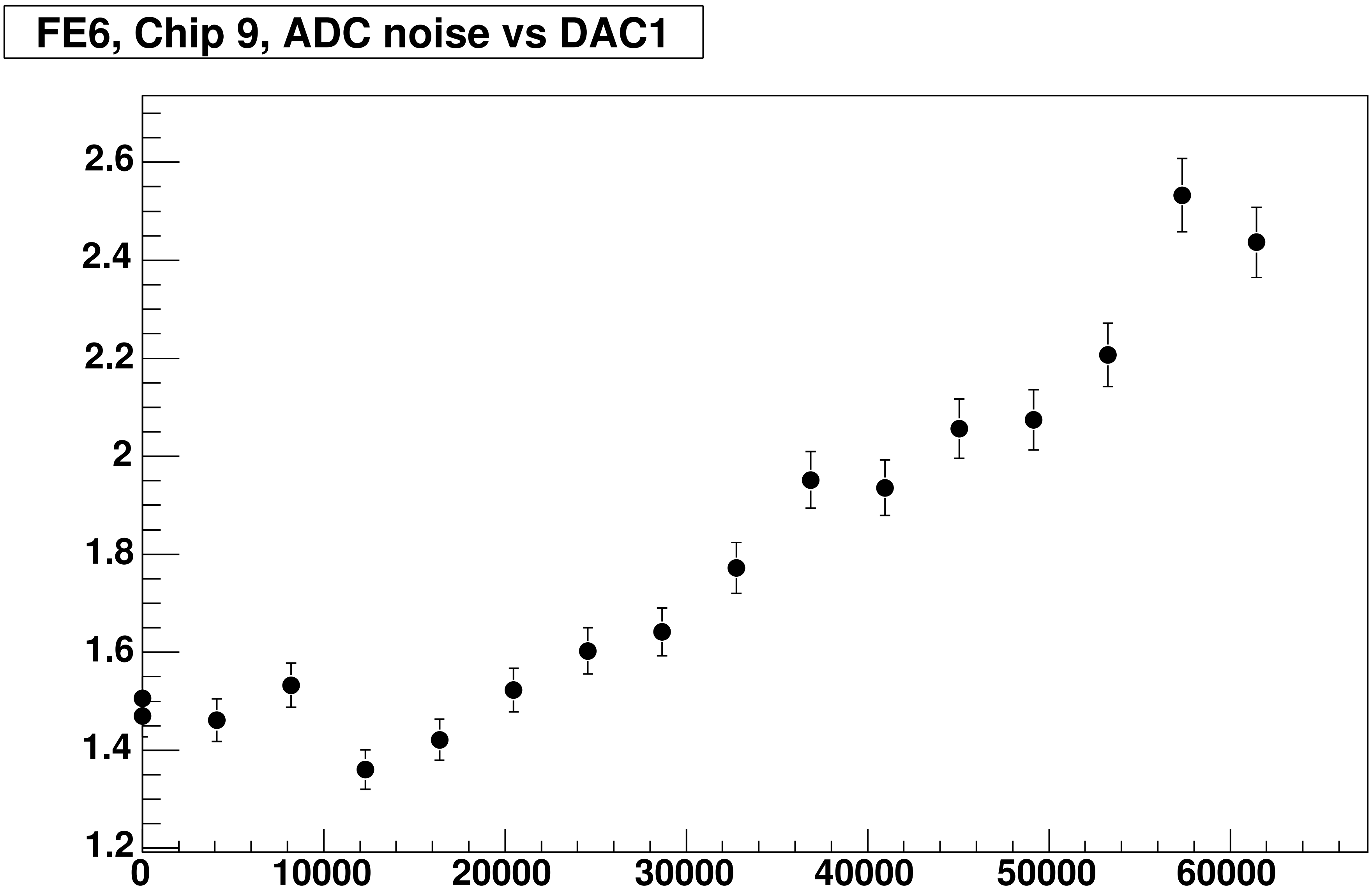
FE6, Chip 9, ADC mean vs DAC0
χ^2 / ndf 330.2 / 11
p0 39.73 ± 0.04055
p1 -1.964e-05 ± 1.123e-06
39.8
39.6
39.4
39.2
39
38.8
38.6
38.4
38.2
38
0
10000
20000
30000
40000
50000
60000



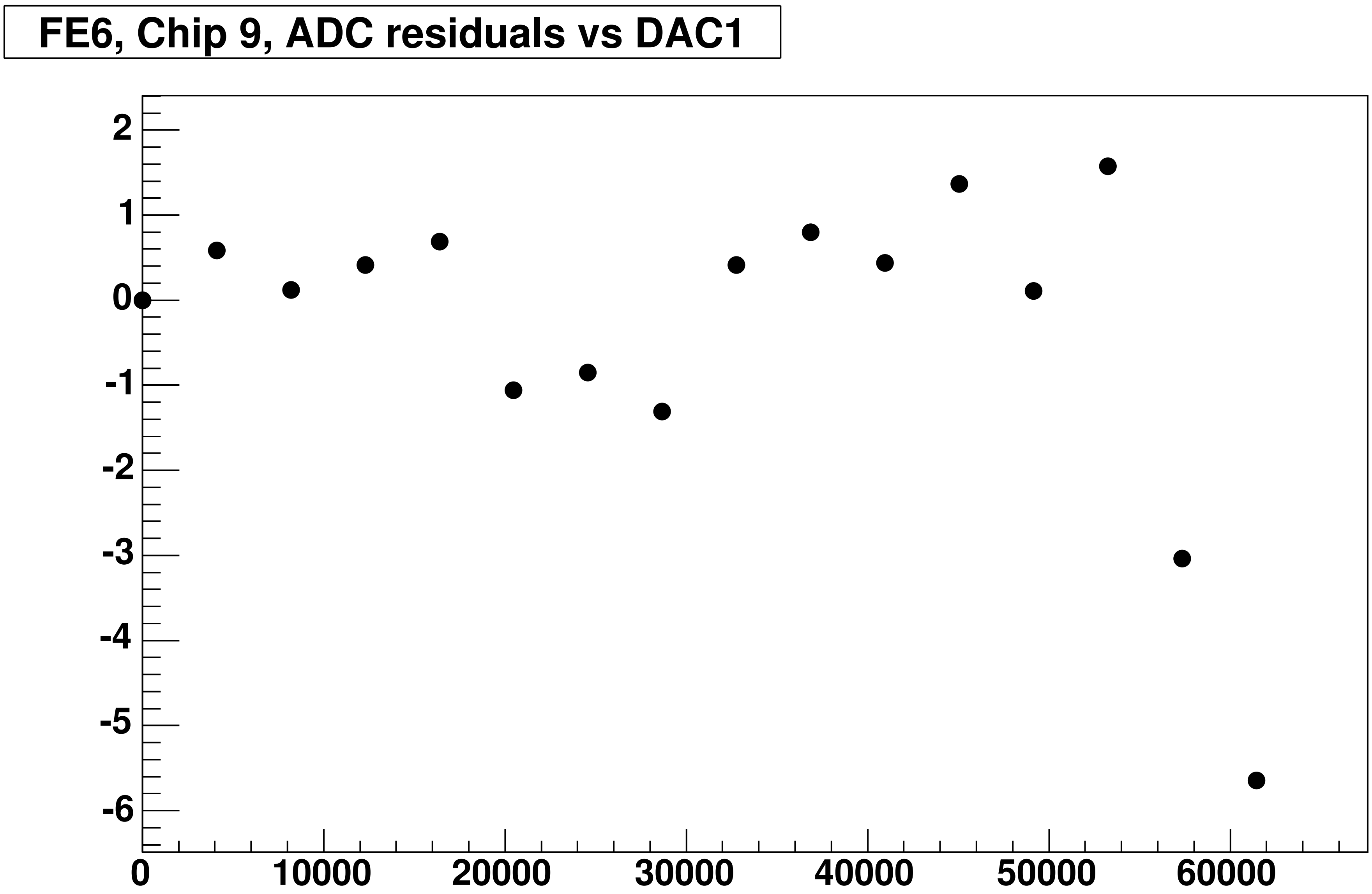
FE6, Chip 9, ADC noise vs DAC0
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000

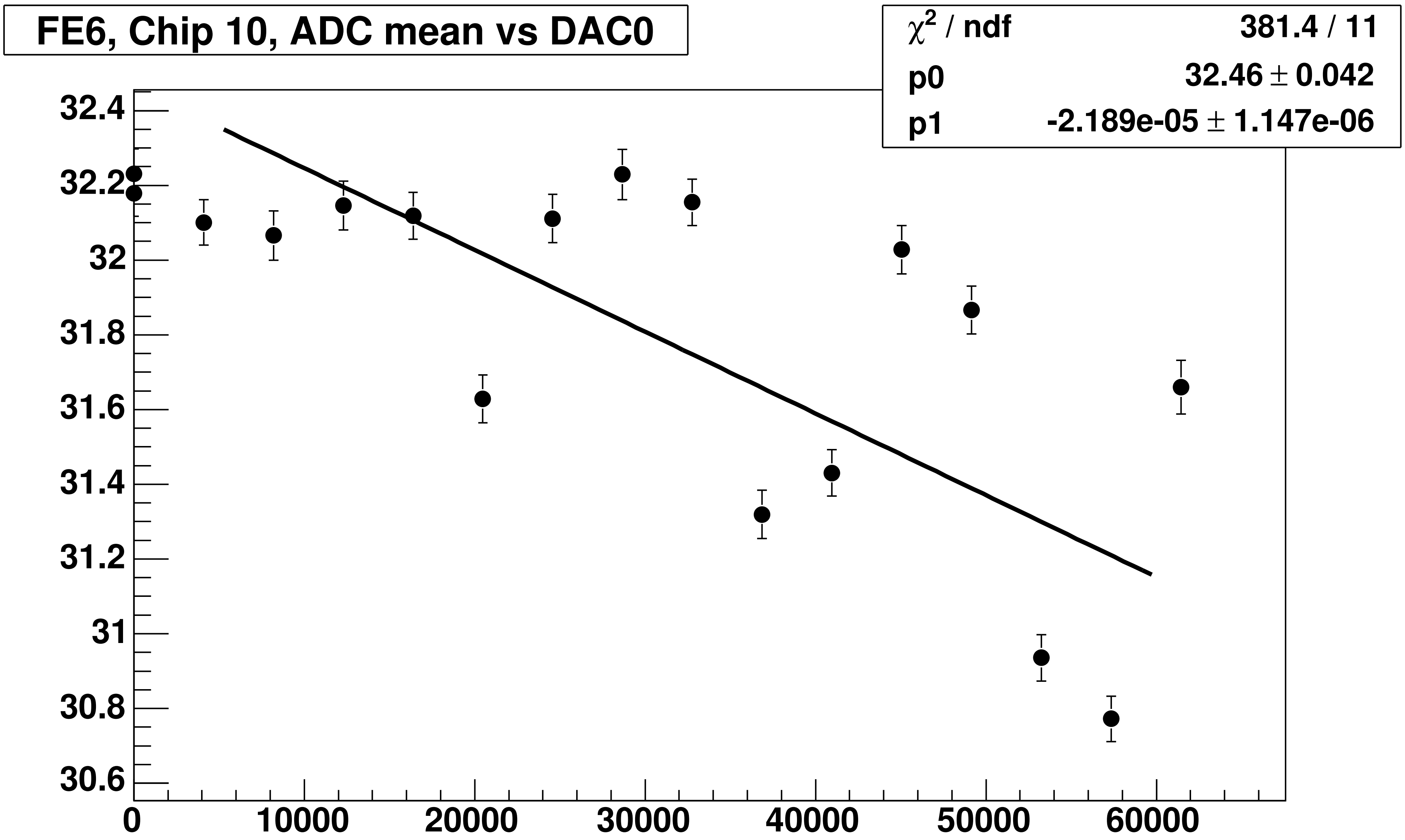

FE6, Chip 9, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000


FE6, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2530 / 11
p0 38.38 ± 0.04334
p1 0.4506 ± 1.384e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

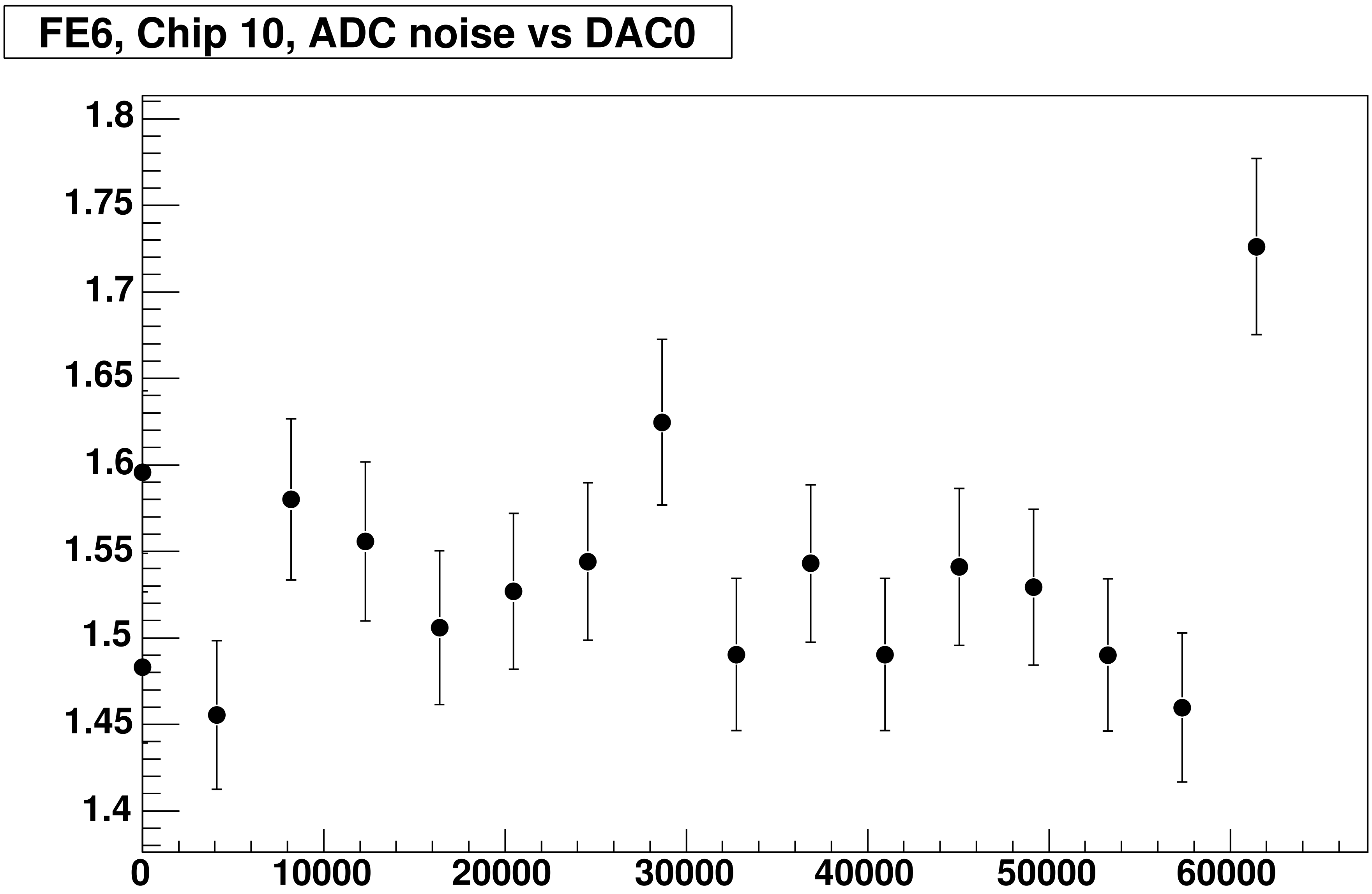


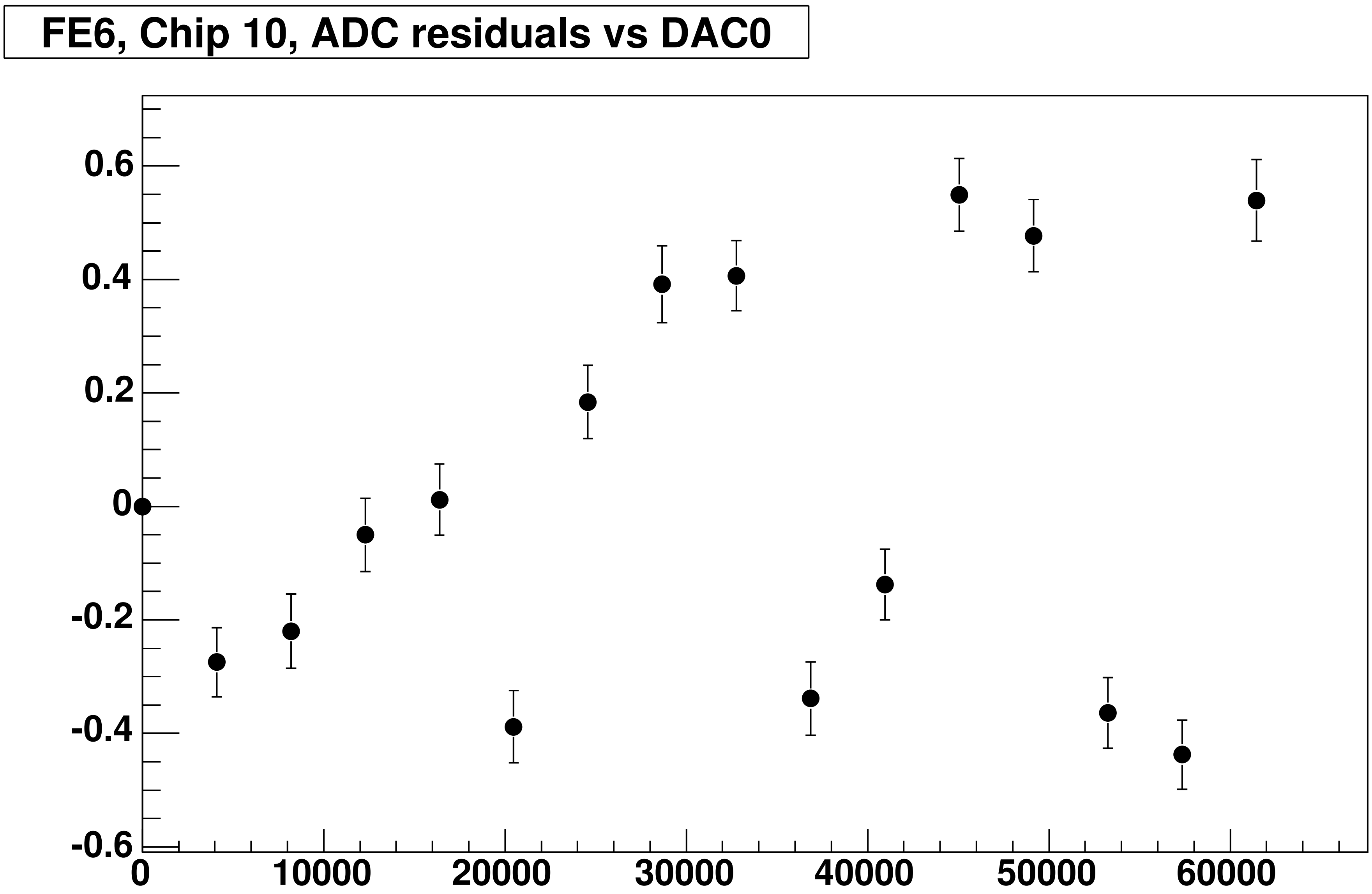
FE6, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

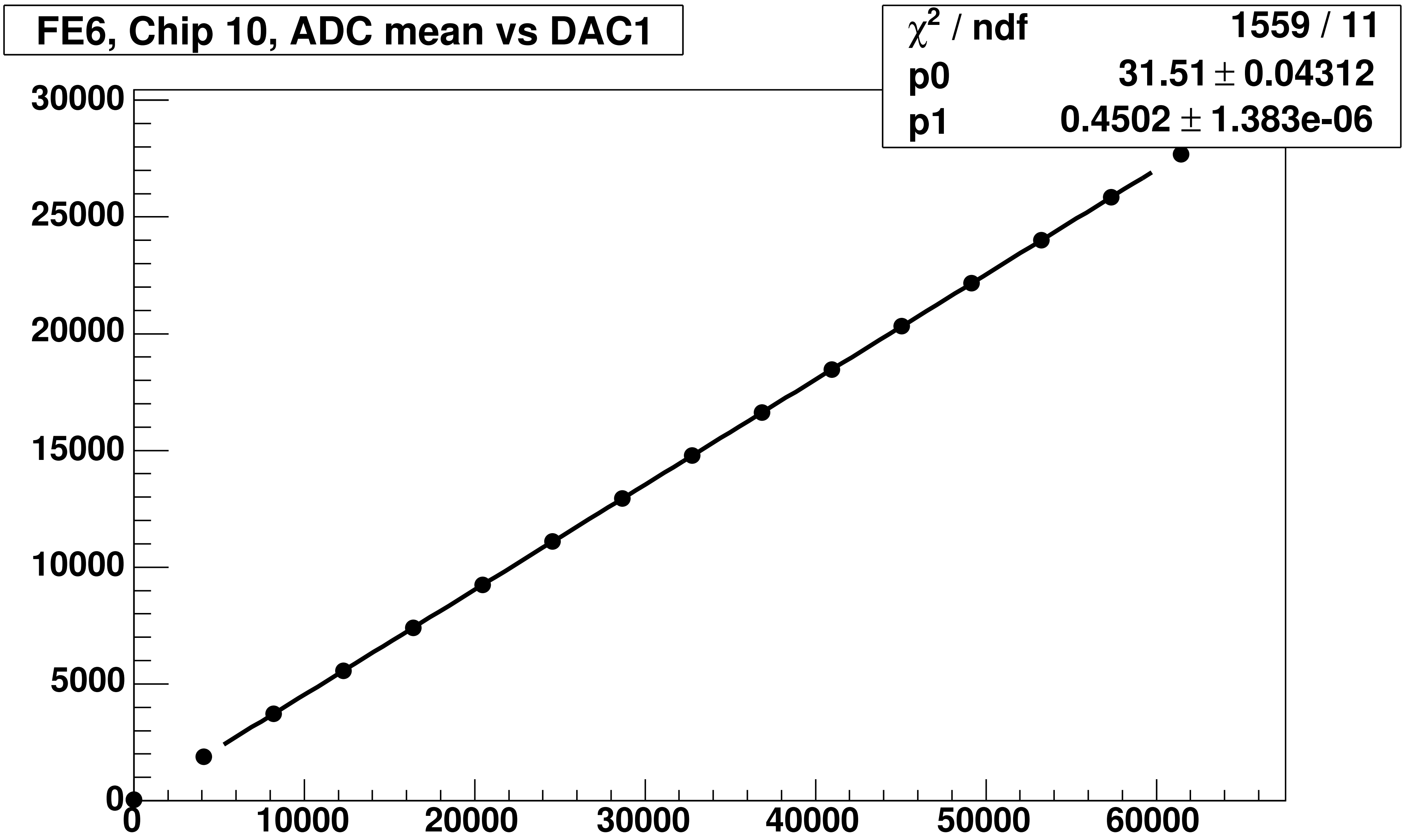


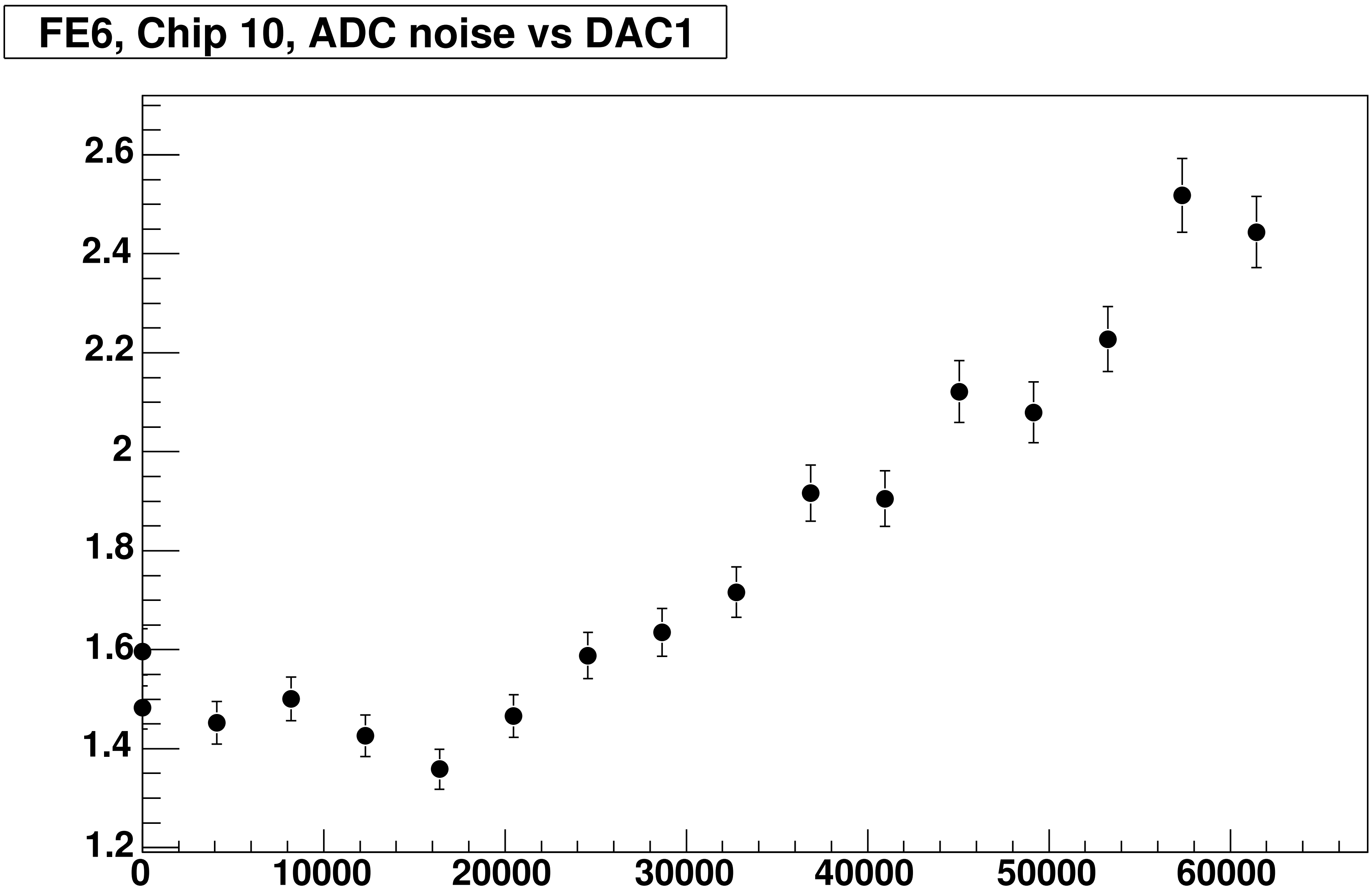
FE6, Chip 10, ADC mean vs DAC0
χ^2 / ndf 381.4 / 11
p0 32.46 ± 0.042
p1 -2.189e-05 ± 1.147e-06
32.4
32.2
32
31.8
31.6
31.4
31.2
31
30.8
30.6
0
10000
20000
30000
40000
50000
60000


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

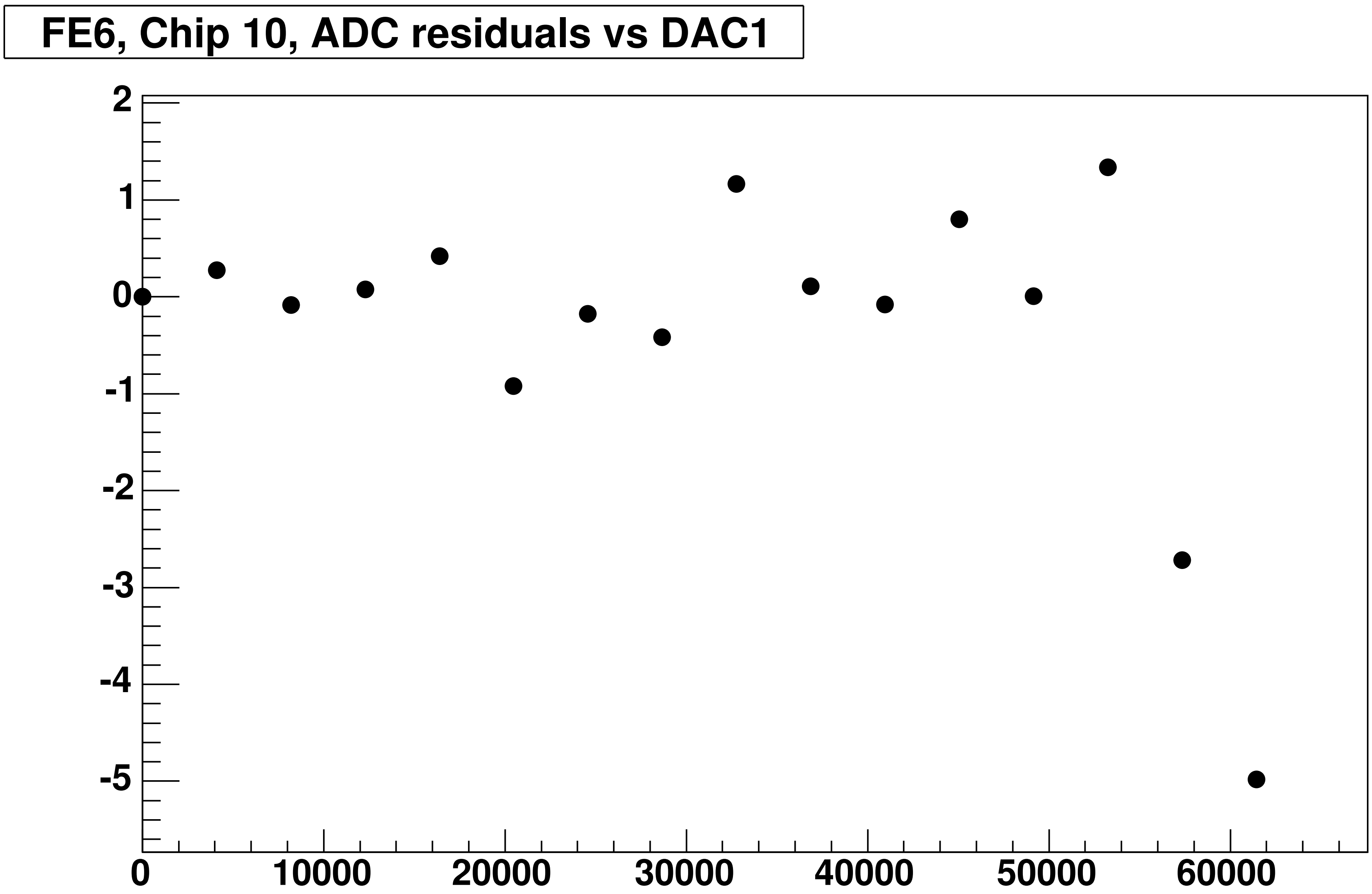


FE6, Chip 10, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

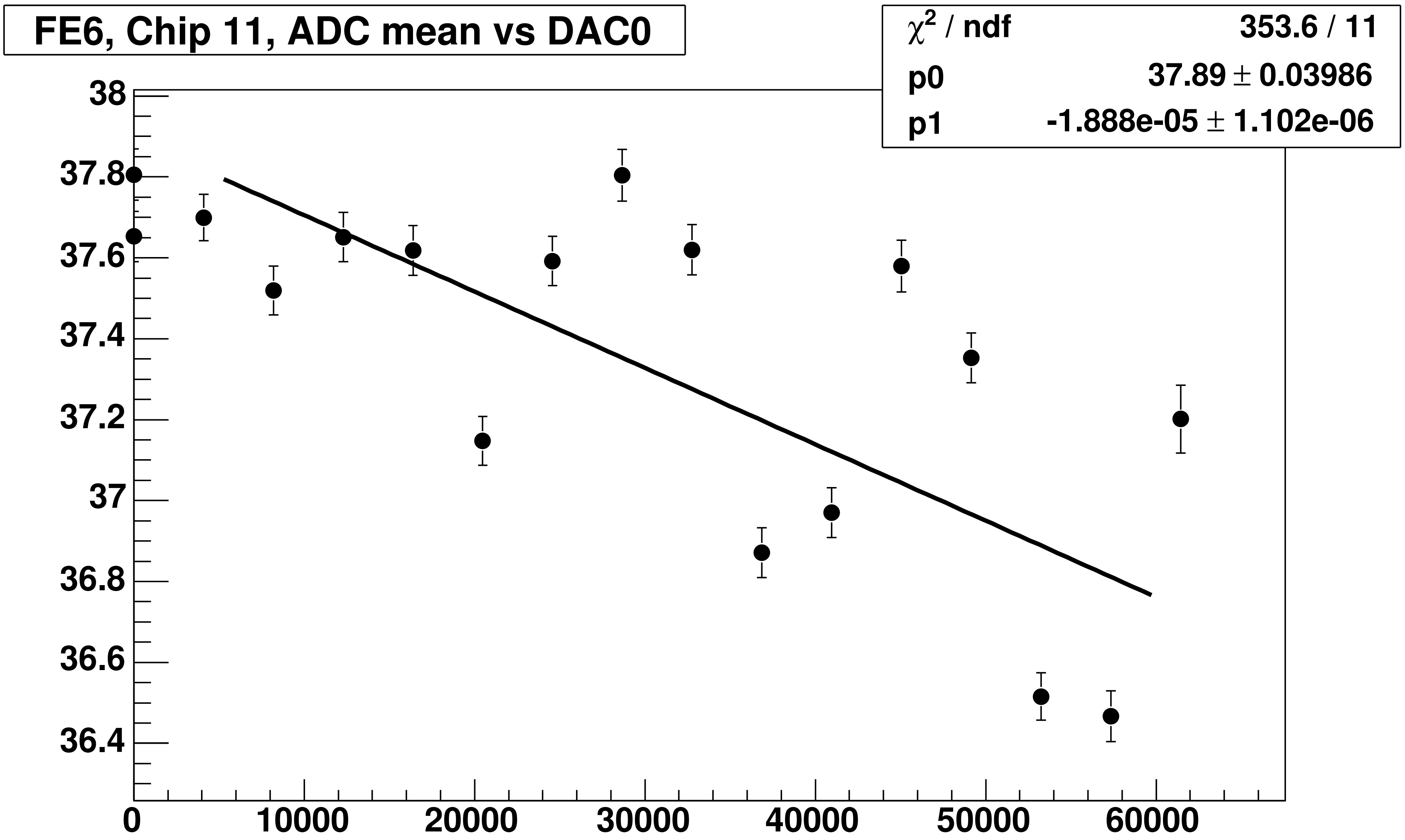

FE6, Chip 10, ADC mean vs DAC1
χ2 / ndf 1559 / 11
p0 31.51 ± 0.04312
p1 0.4502 ± 1.383e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



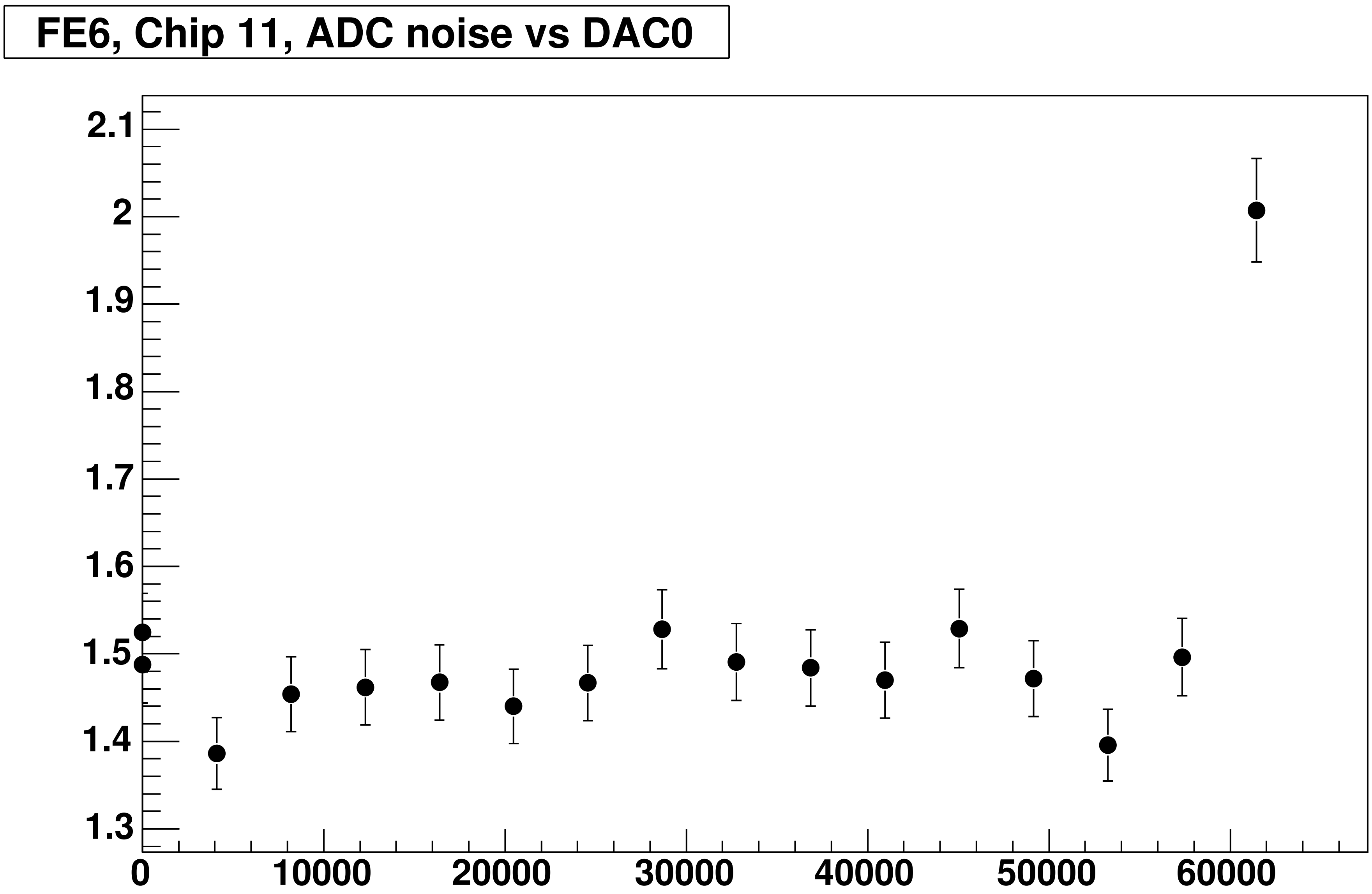
FE6, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

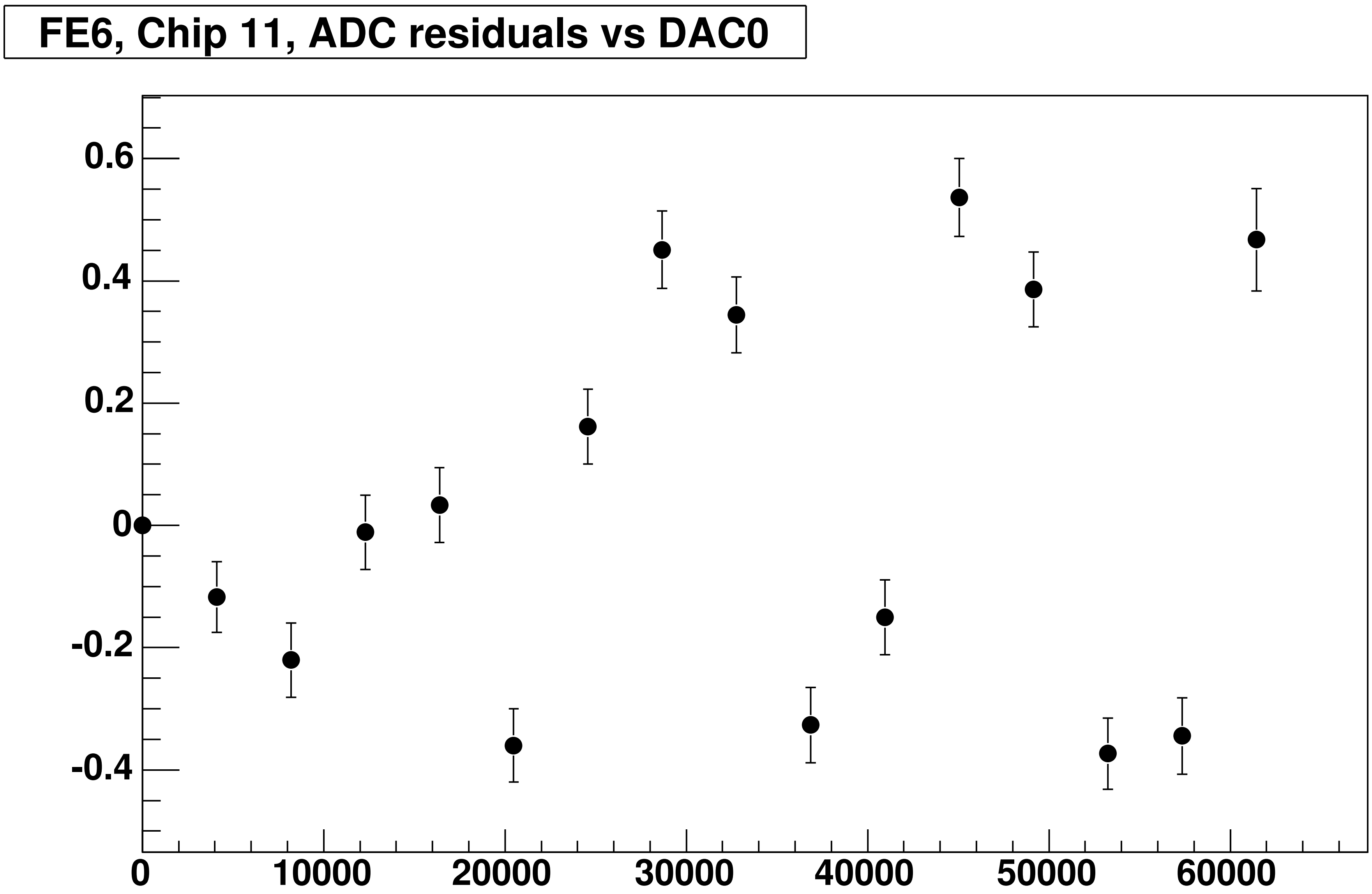


FE6, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

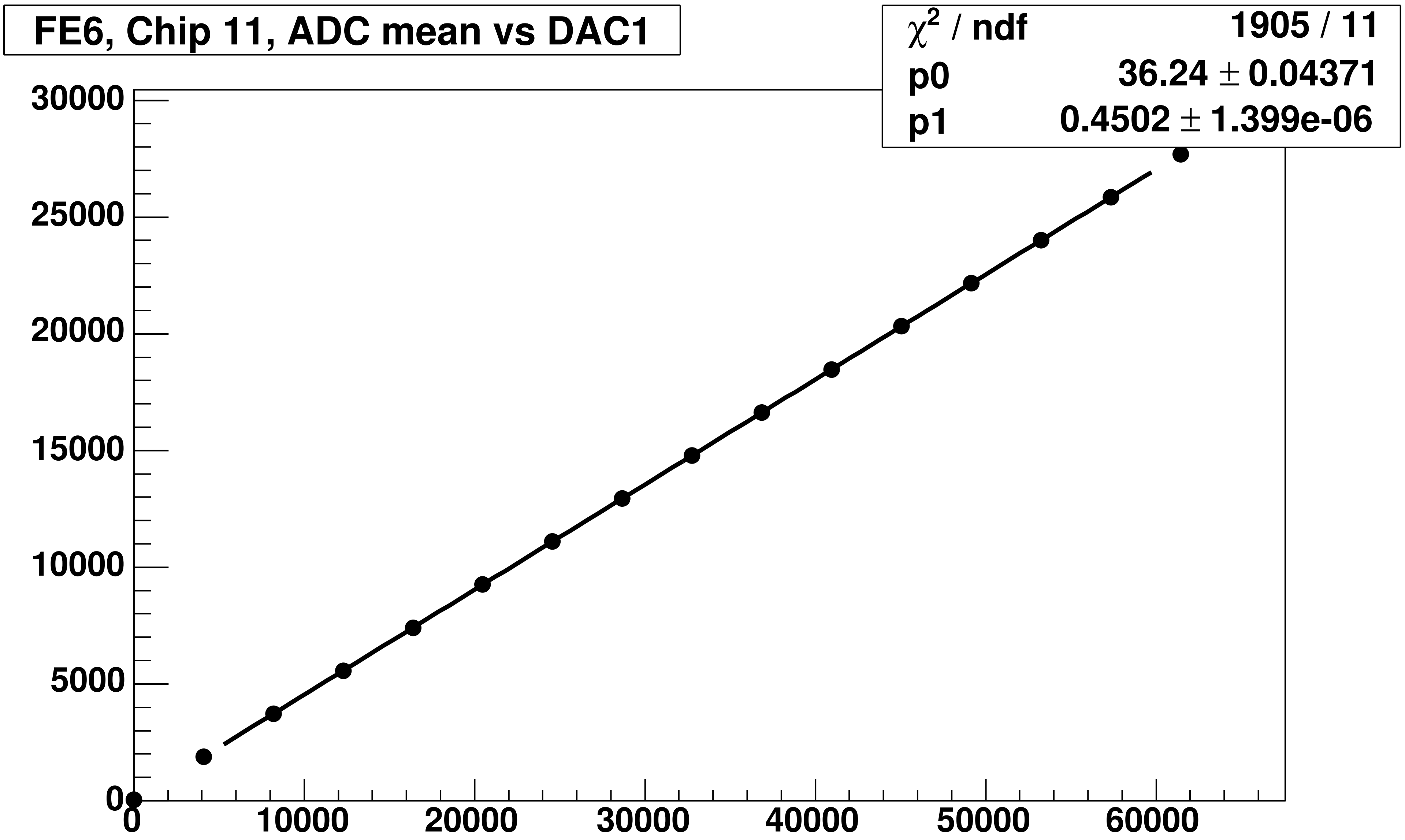


FE6, Chip 11, ADC mean vs DAC0
χ^2 / ndf 353.6 / 11
p0 37.89 ± 0.03986
p1 -1.888e-05 ± 1.102e-06
38
37.8
37.6
37.4
37.2
37
36.8
36.6
36.4
0
10000
20000
30000
40000
50000
60000

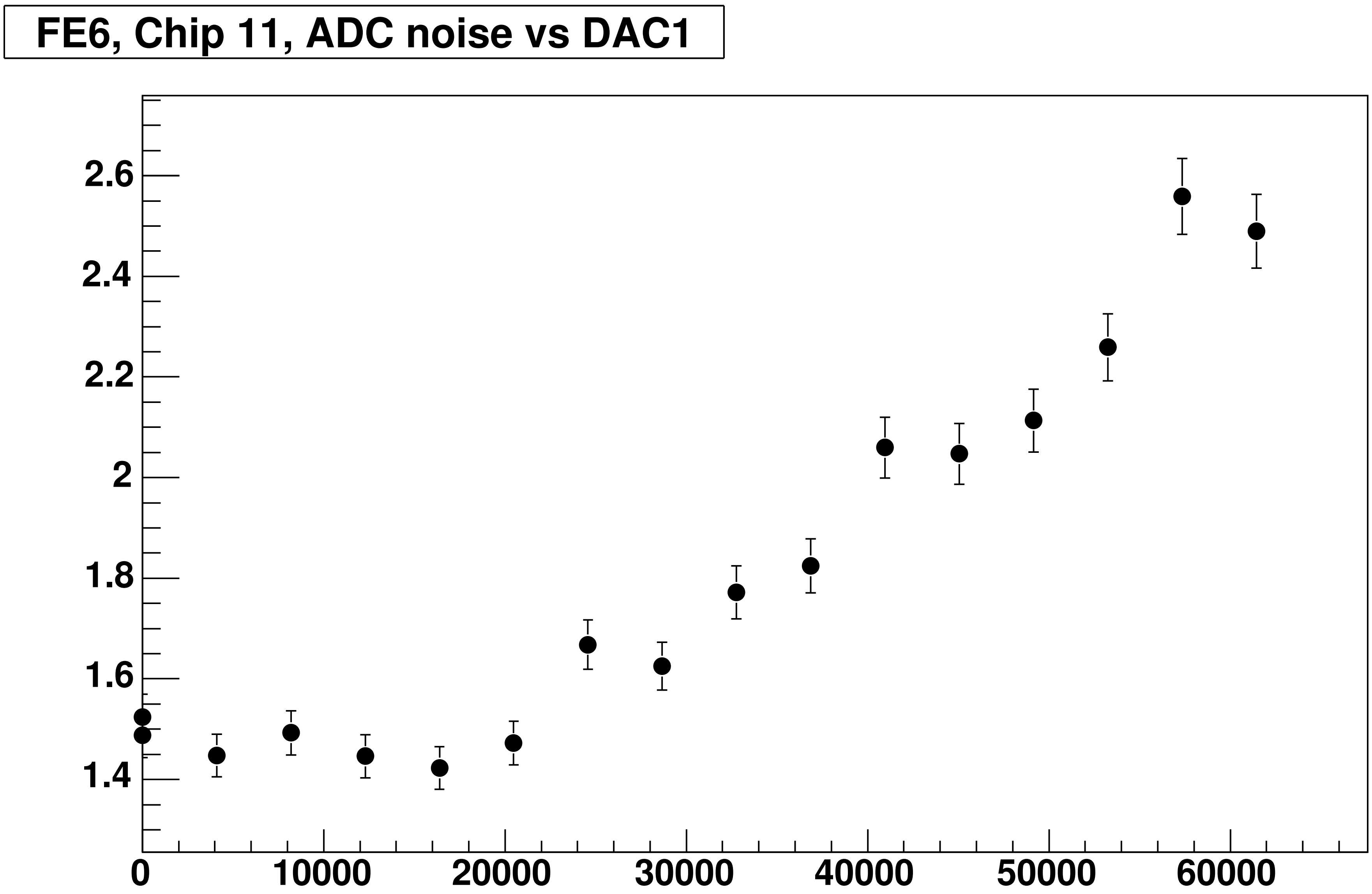

FE6, Chip 11, ADC noise vs DAC0
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000



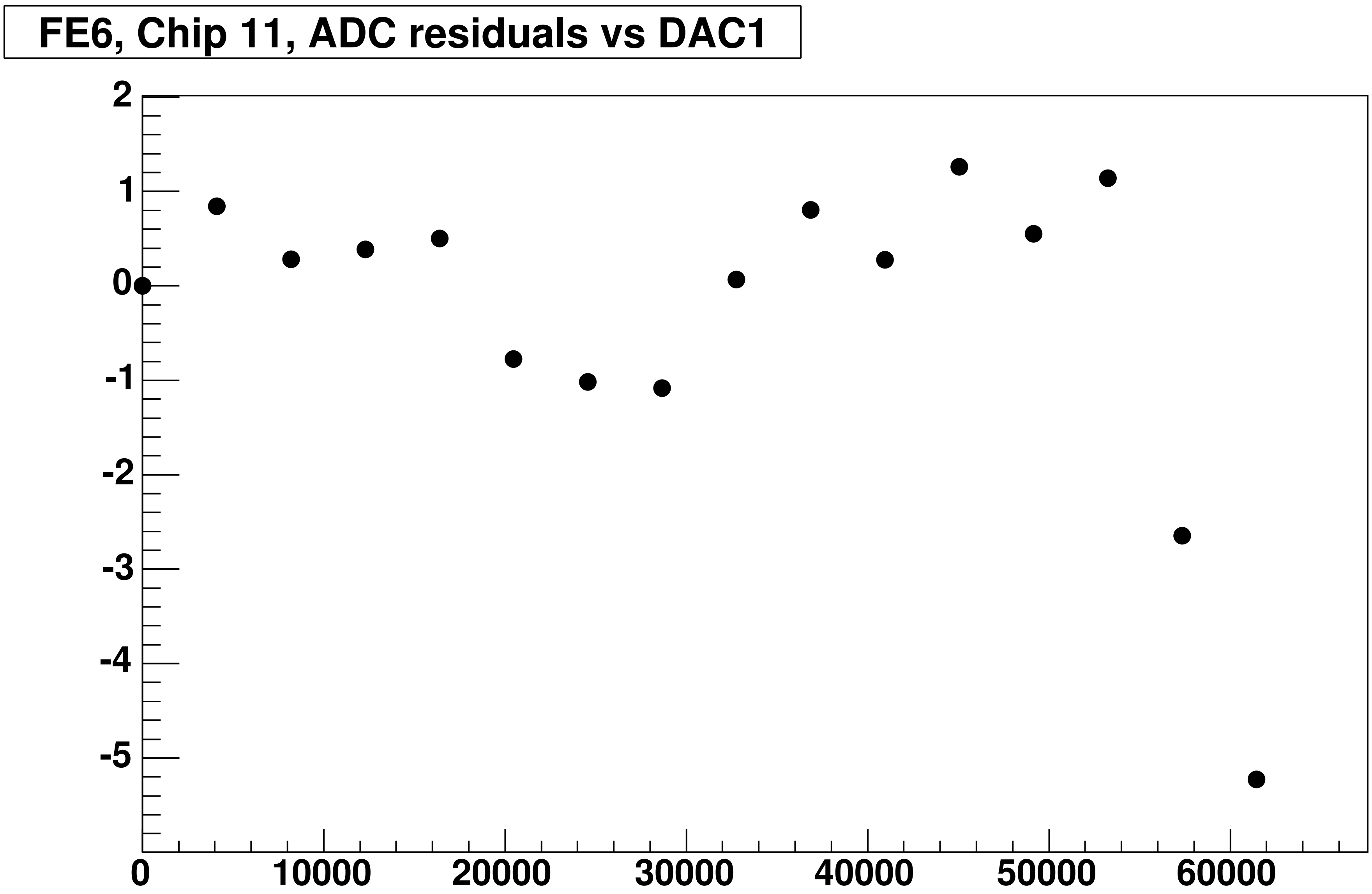
FE6, Chip 11, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000



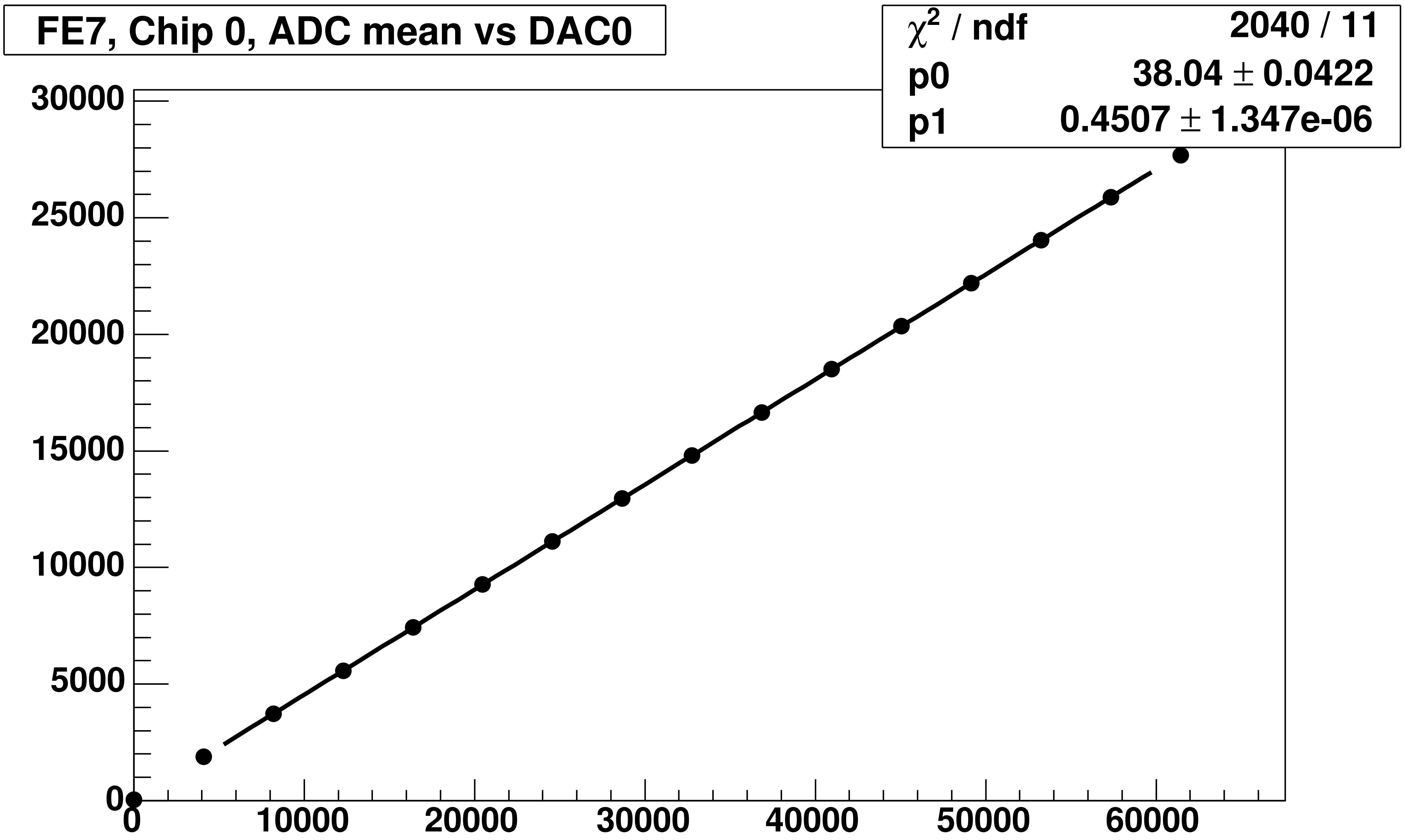
FE6, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1905 / 11
p0 36.24 ± 0.04371
p1 0.4502 ± 1.399e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

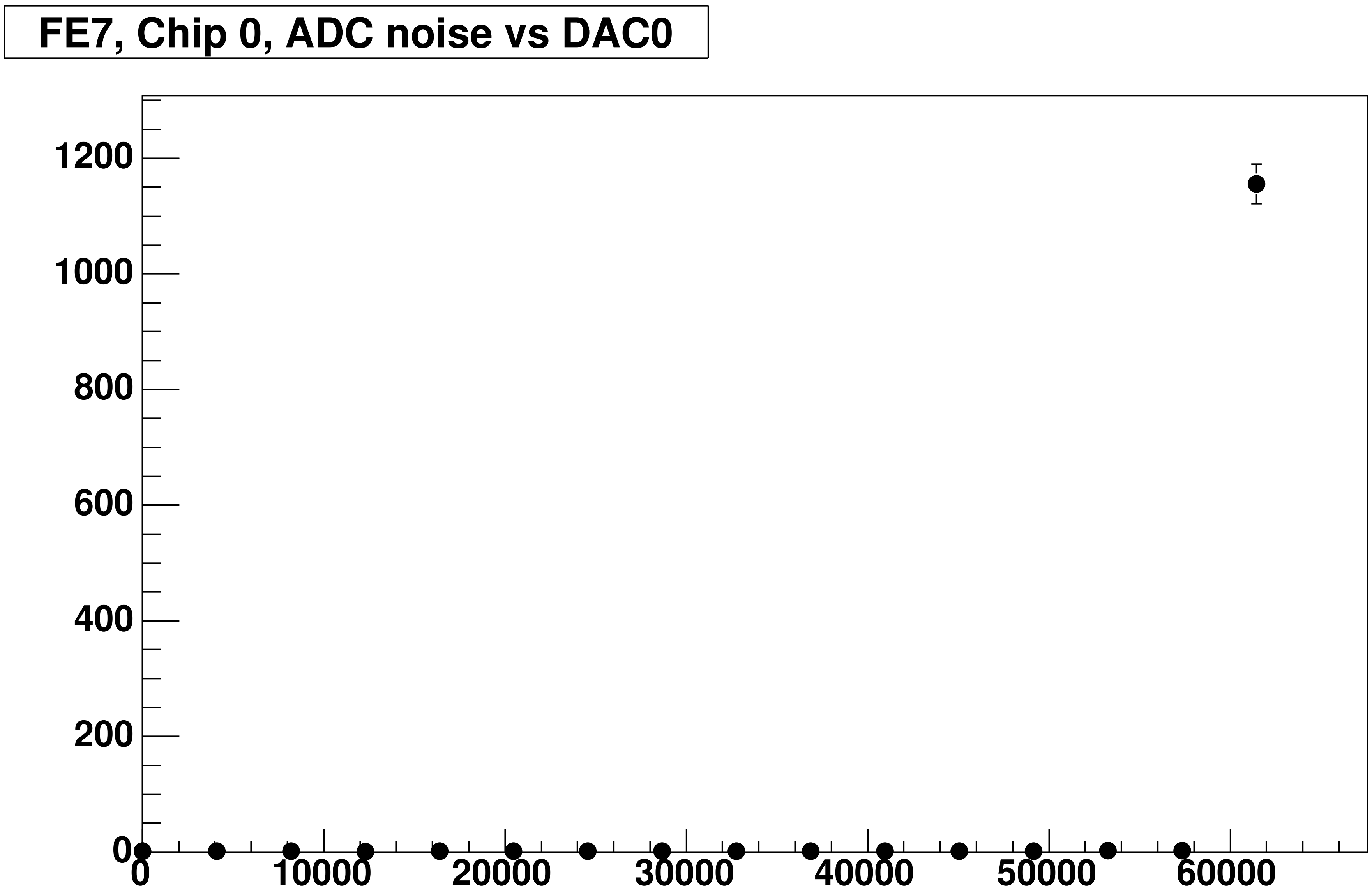


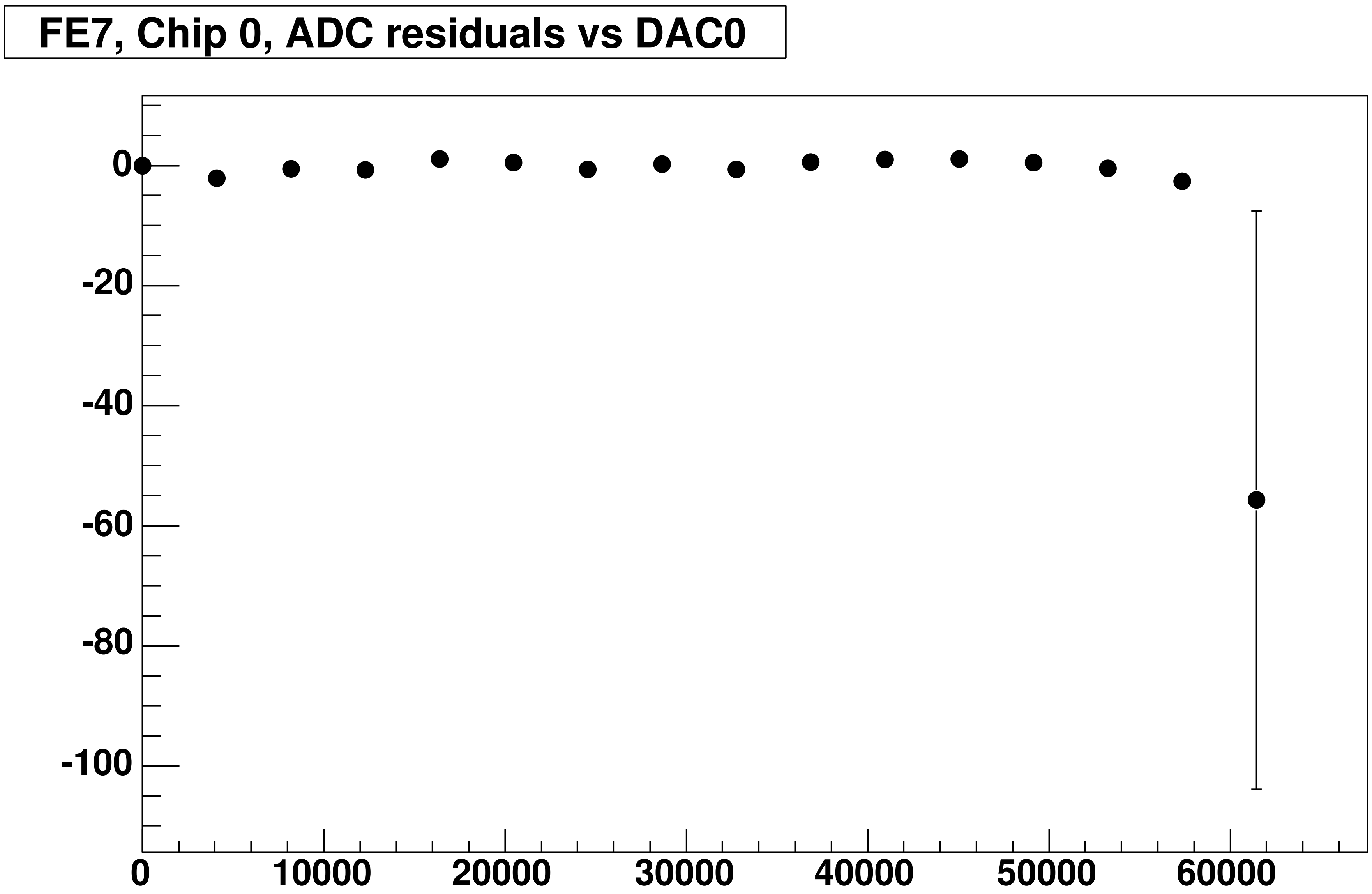
FE6, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



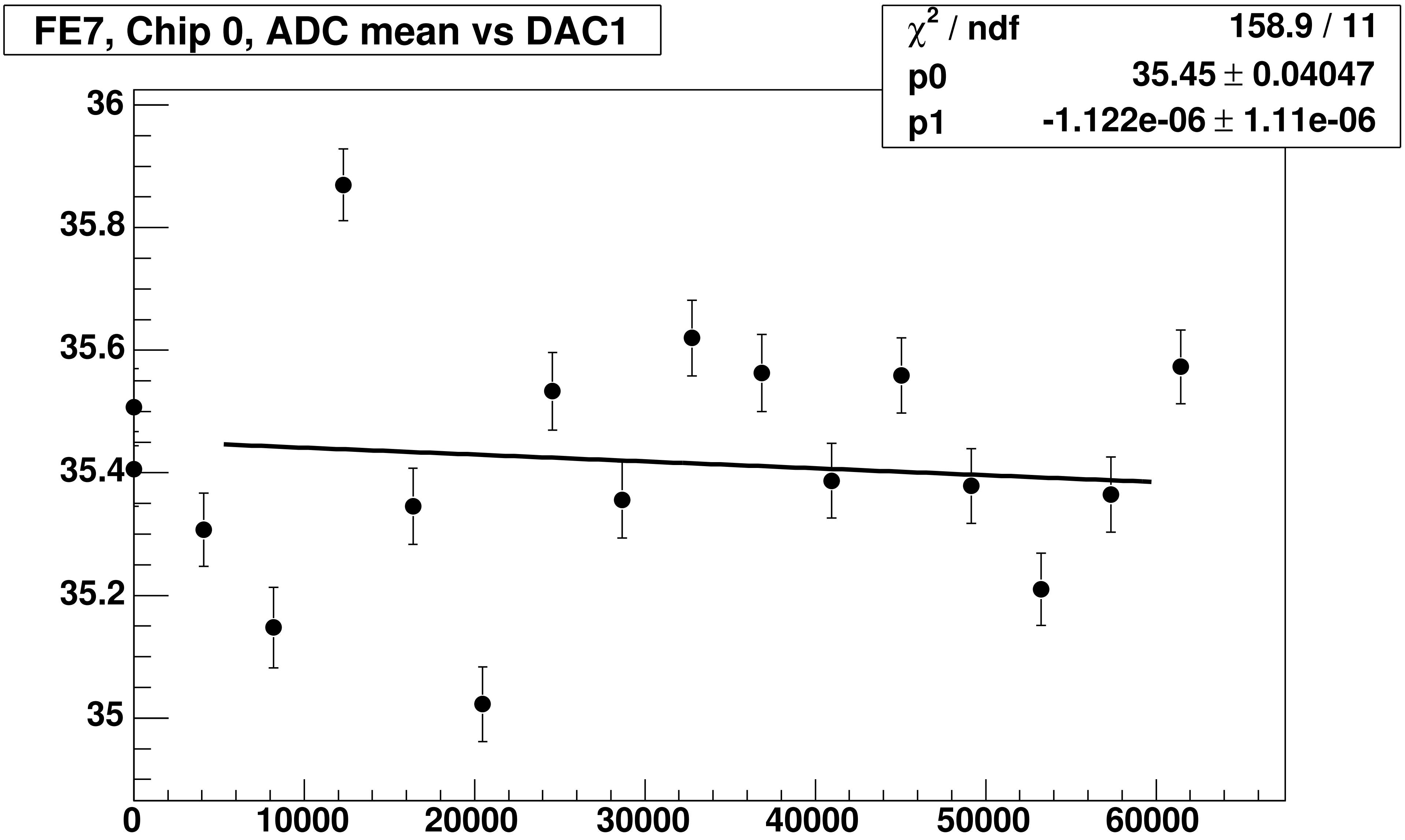
FE6, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE7, Chip 0, ADC mean vs DAC0
χ² / ndf 2040 / 11
p0 38.04 ± 0.0422
p1 0.4507 ± 1.347e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

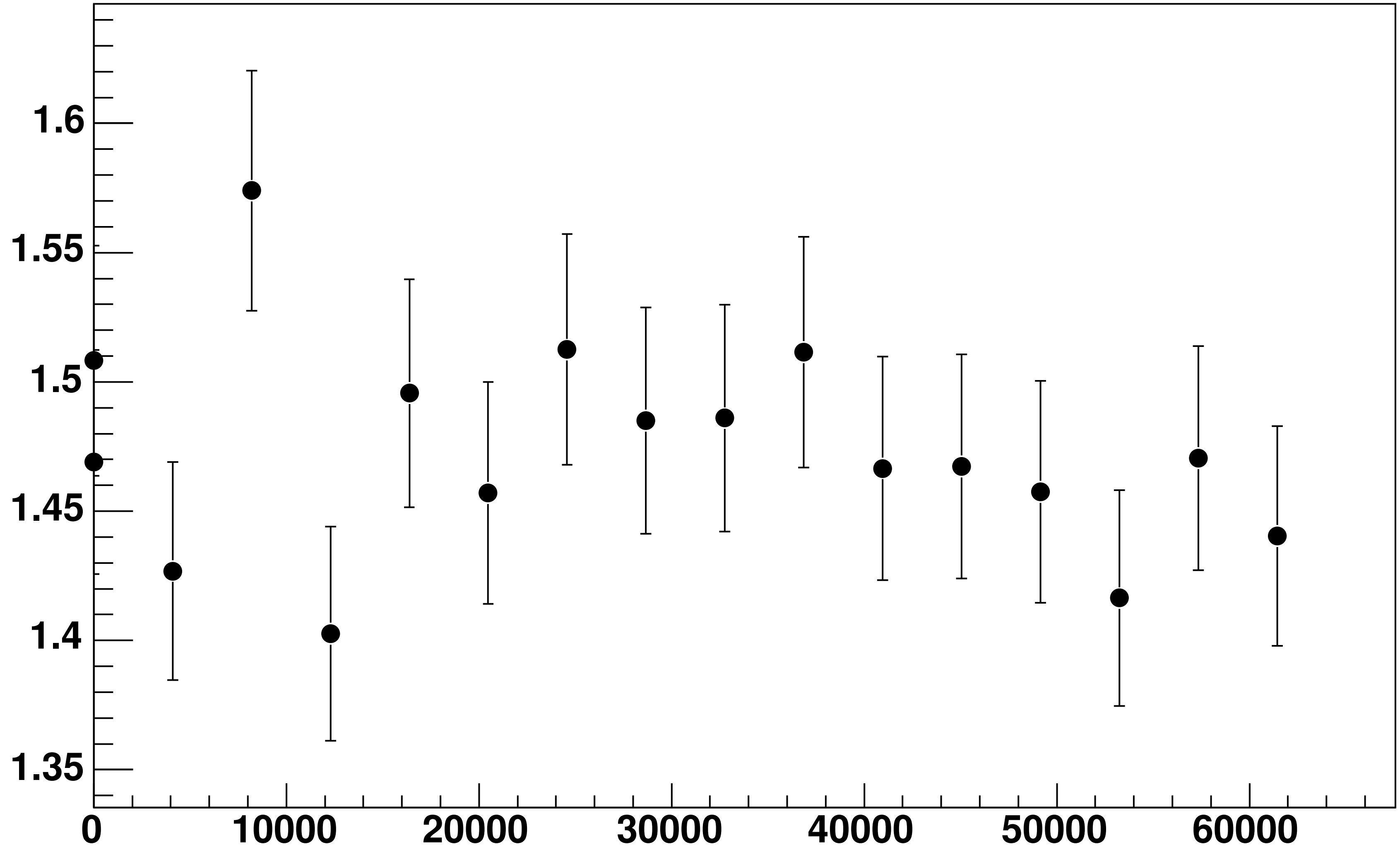

FE7, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

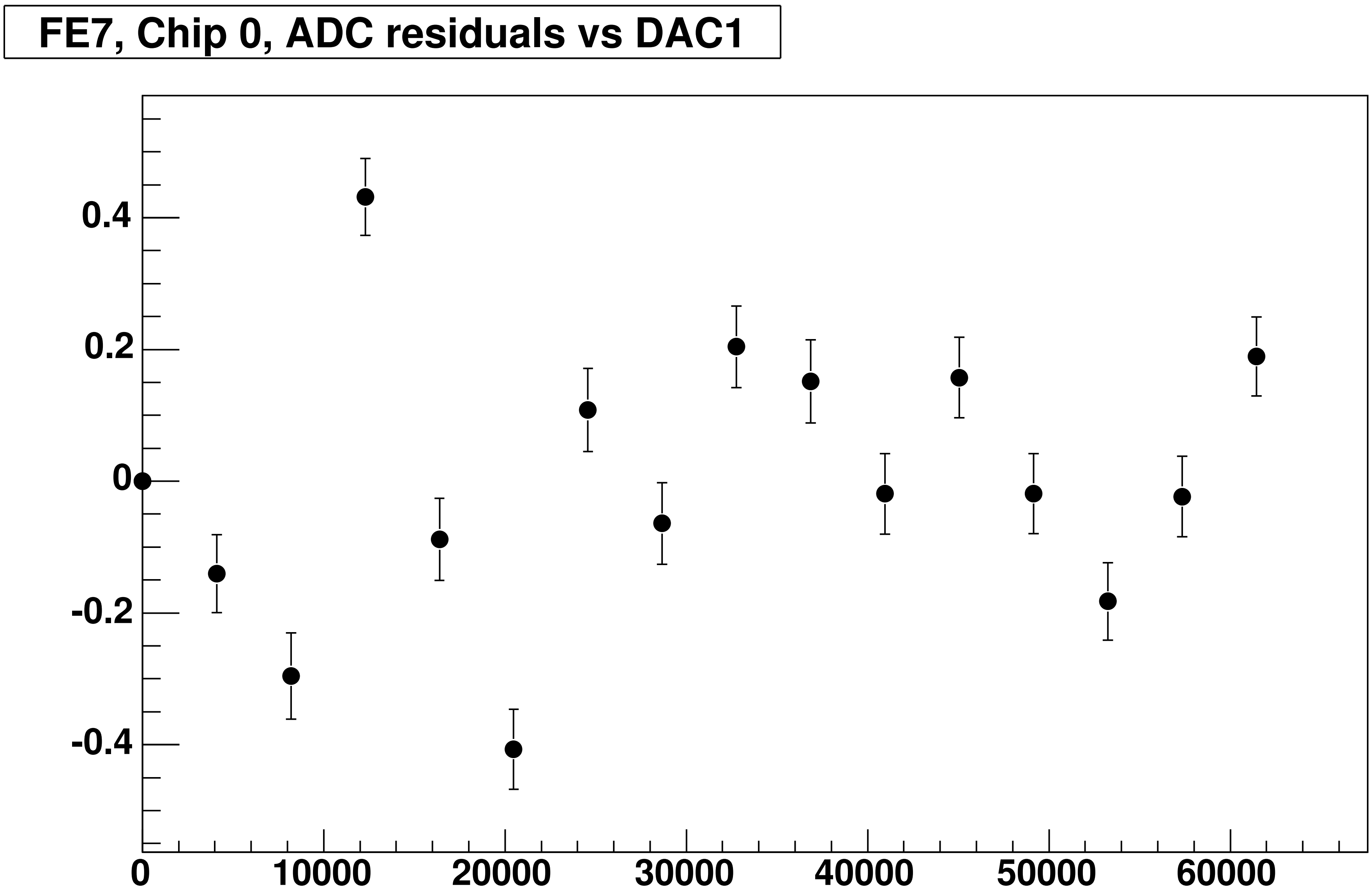


FE7, Chip 0, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

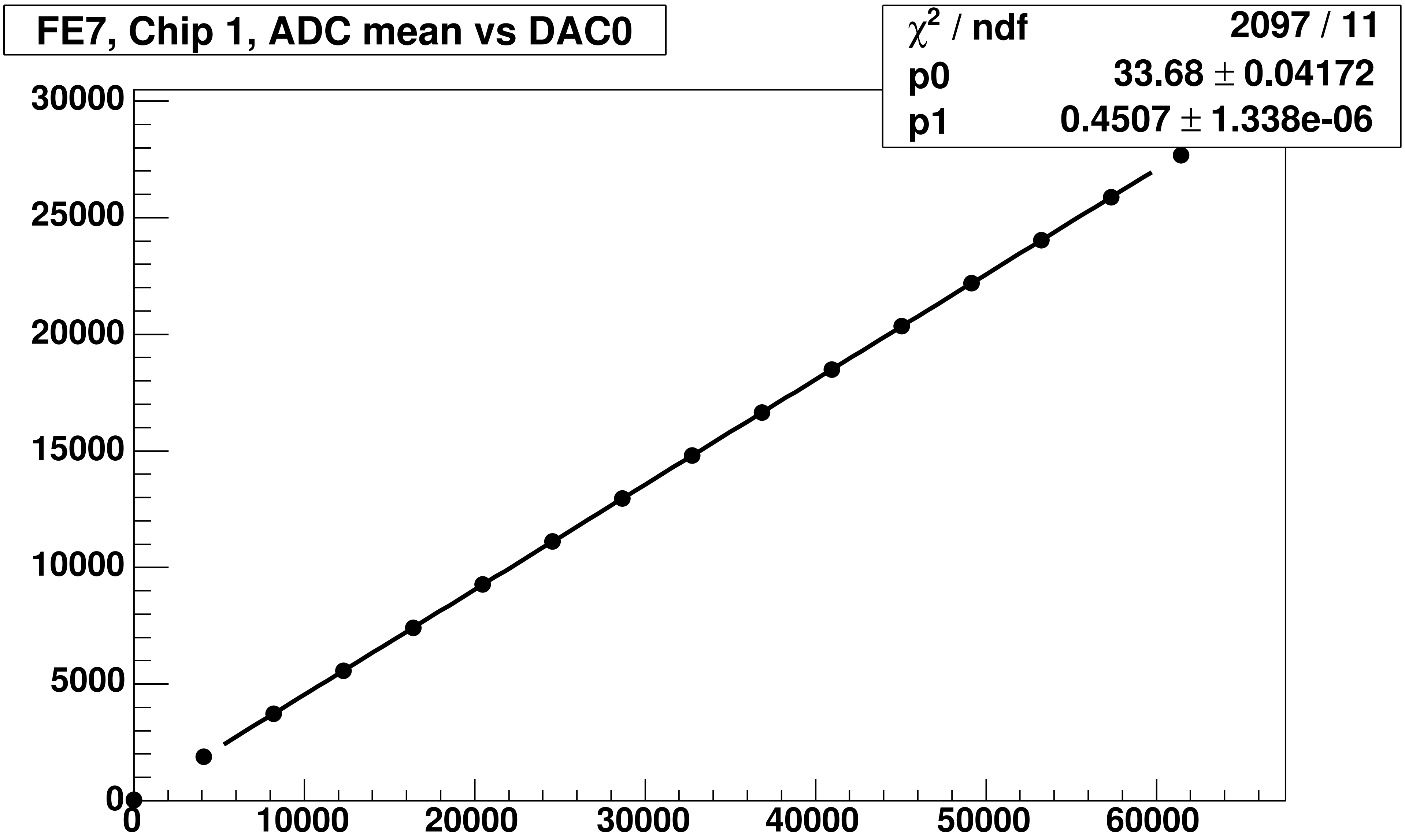

FE7, Chip 0, ADC mean vs DAC1
χ^2 / ndf 158.9 / 11
p0 35.45 ± 0.04047
p1 -1.122e-06 ± 1.11e-06
36
35.8
35.6
35.4
35.2
35
0
10000
20000
30000
40000
50000
60000

FE7, Chip 0, ADC noise vs DAC1

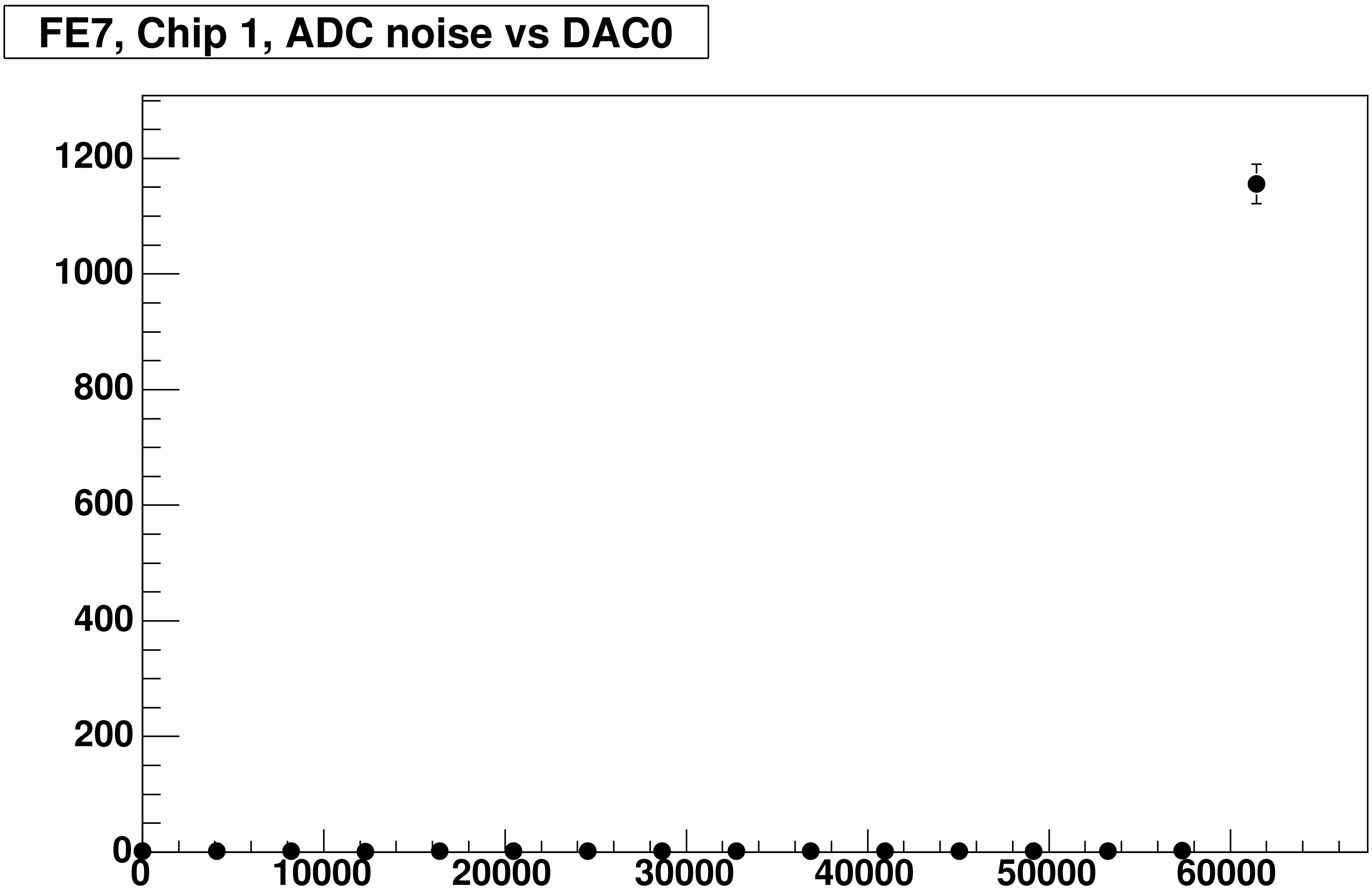




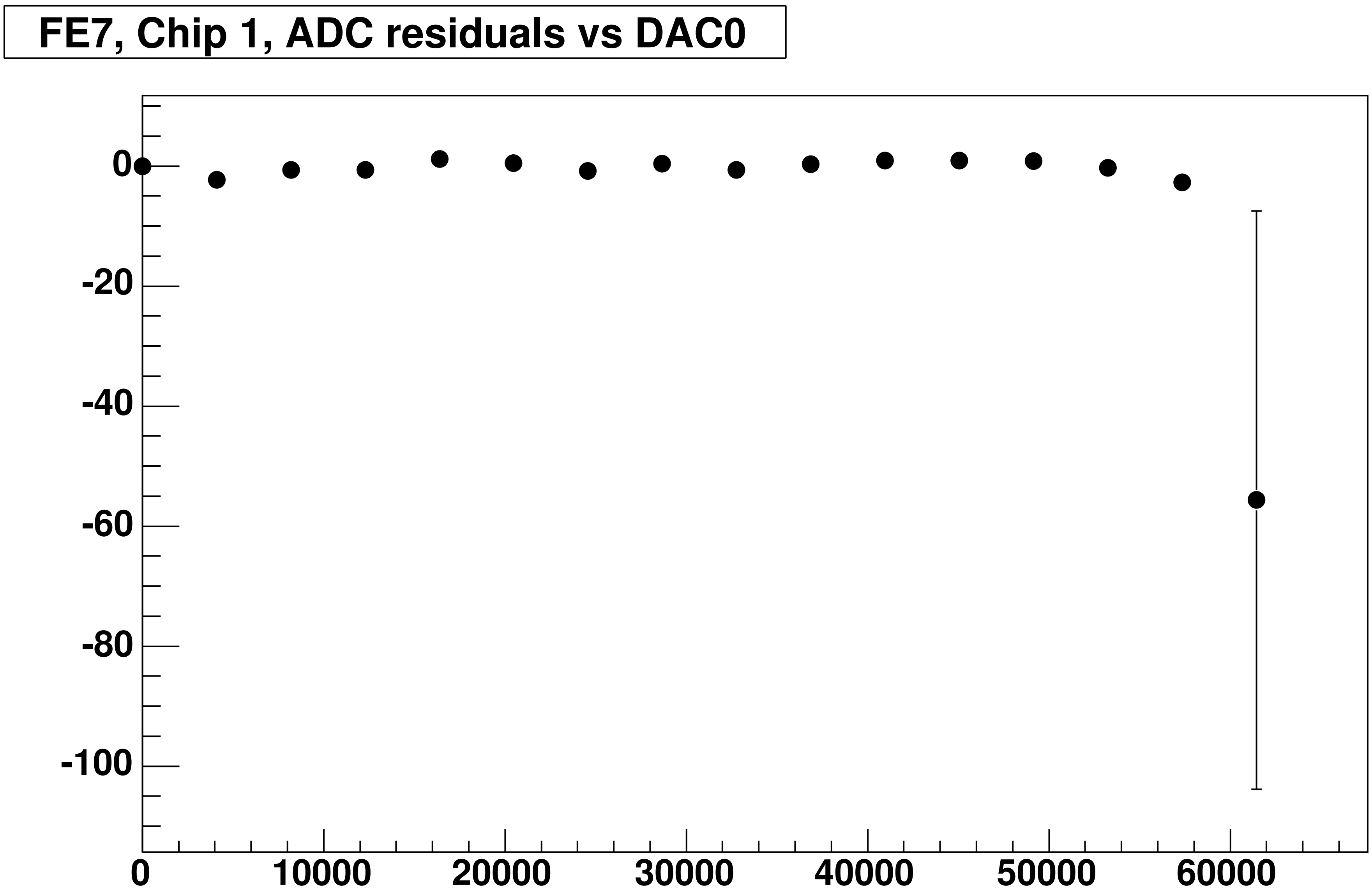
FE7, Chip 0, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

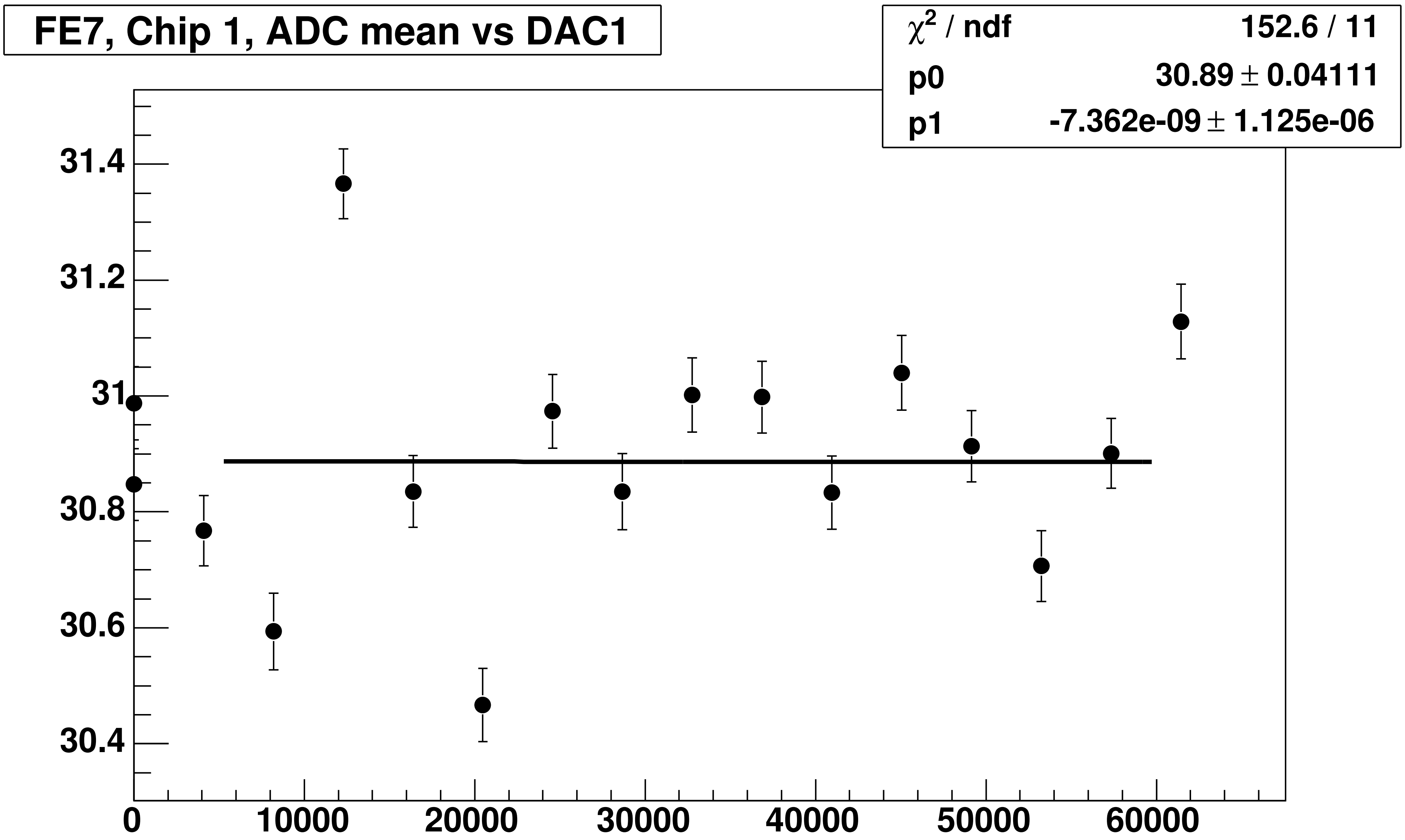


FE7, Chip 1, ADC mean vs DAC0
χ² / ndf 2097 / 11
p0 33.68 ± 0.04172
p1 0.4507 ± 1.338e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

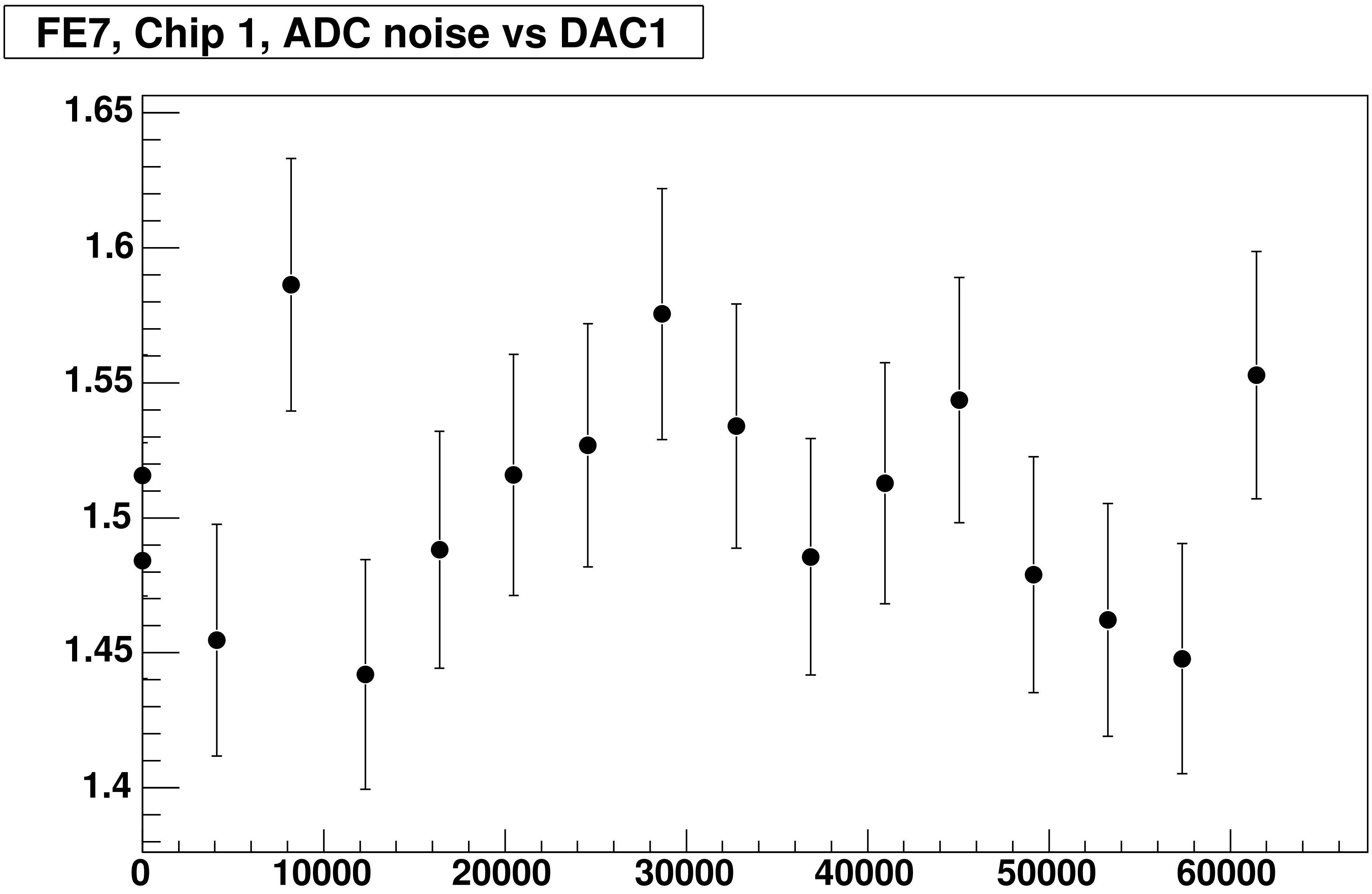


FE7, Chip 1, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

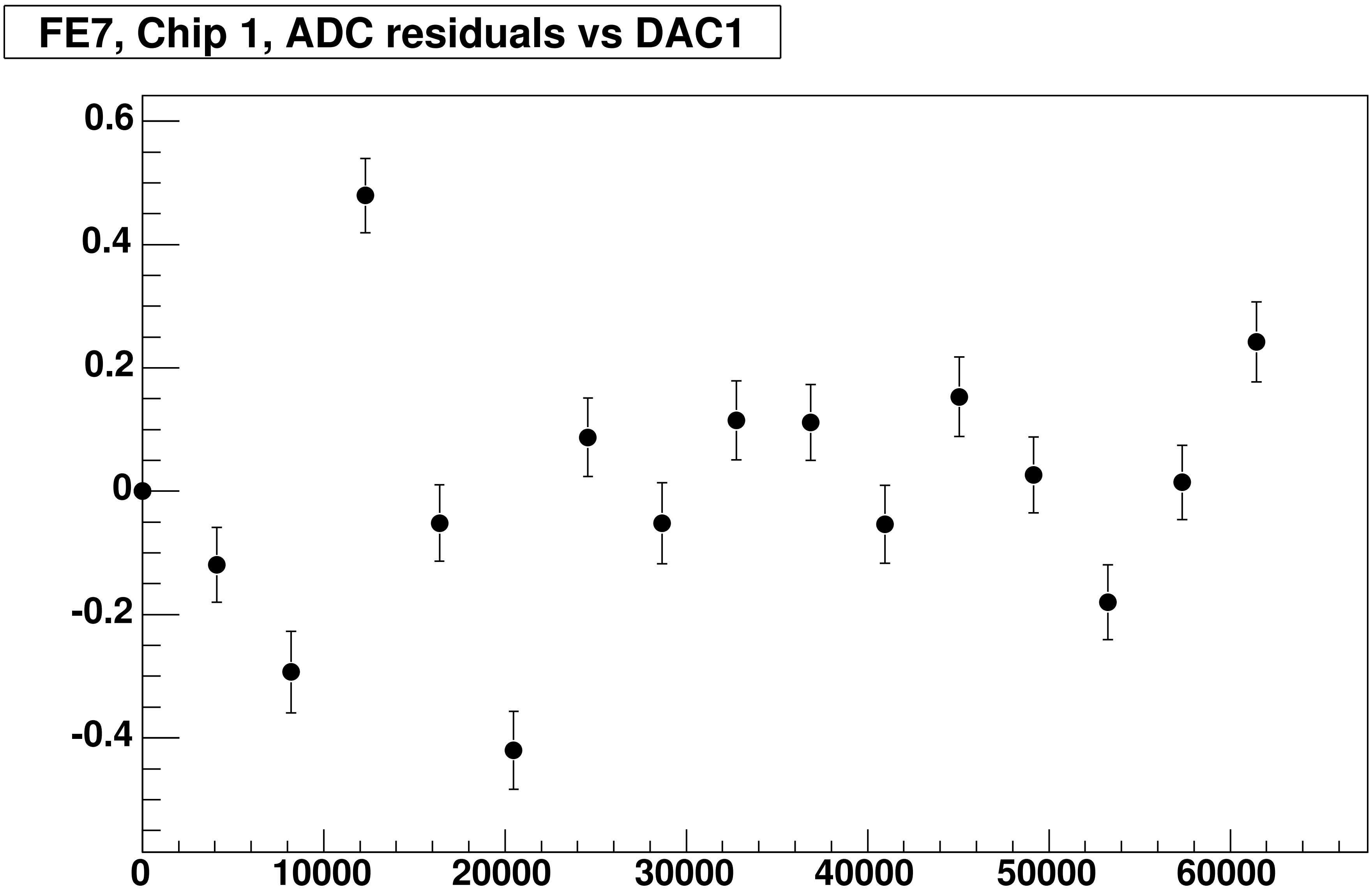

FE7, Chip 1, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

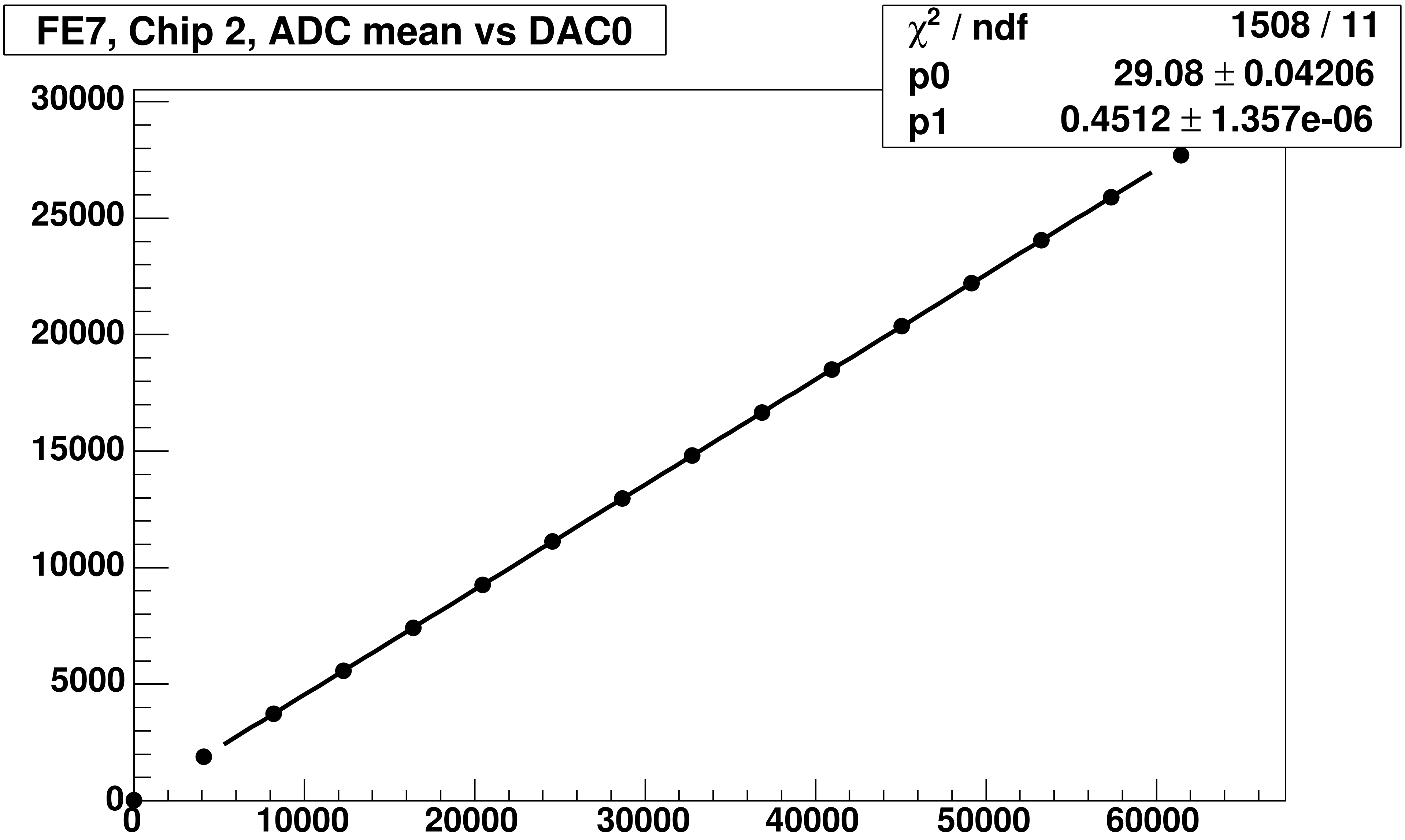


FE7, Chip 1, ADC mean vs DAC1
χ^2 / ndf 152.6 / 11
p0 30.89 ± 0.04111
p1 -7.362e-09 ± 1.125e-06
31.4
31.2
31
30.8
30.6
30.4
0
10000
20000
30000
40000
50000
60000

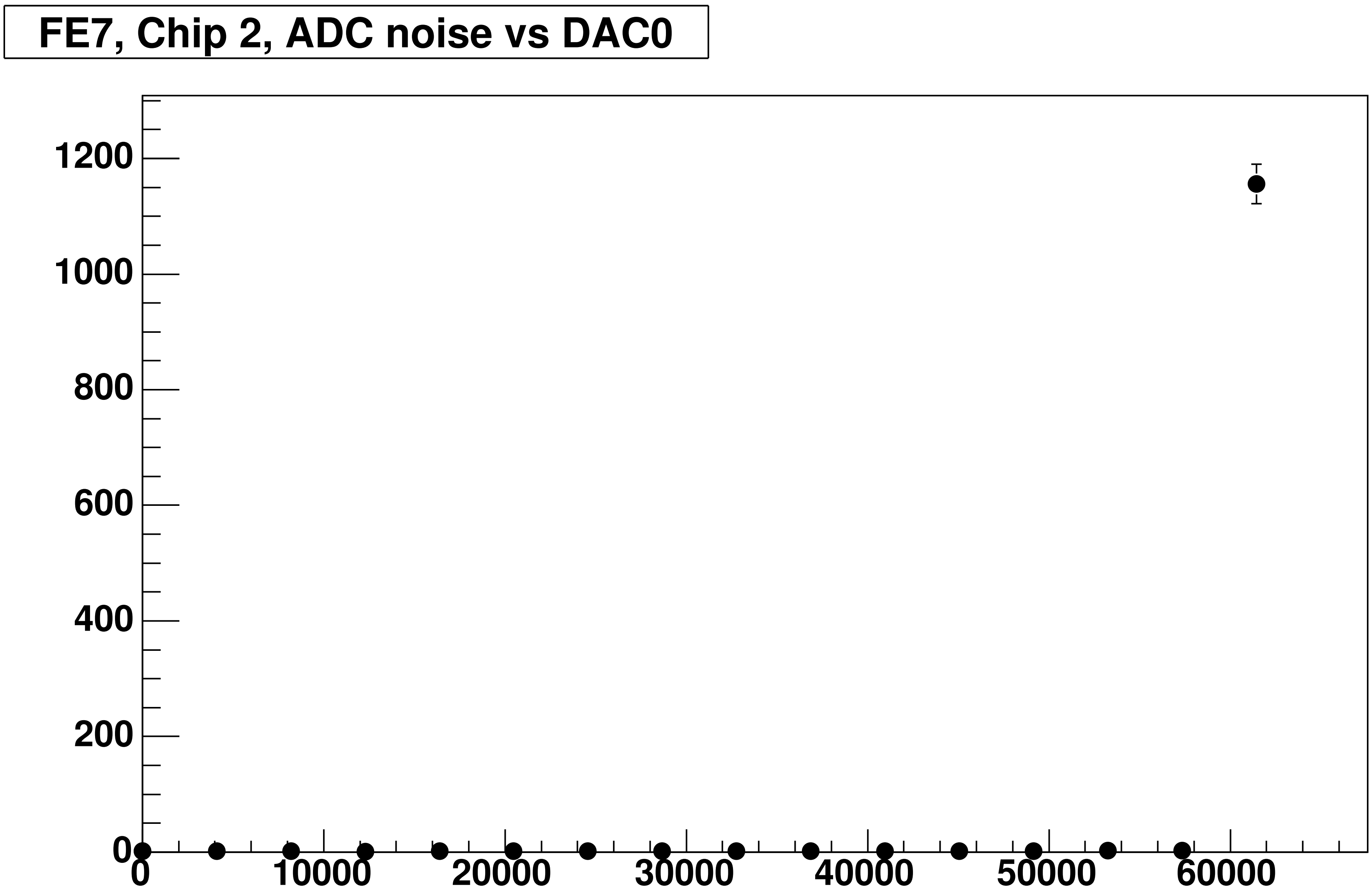


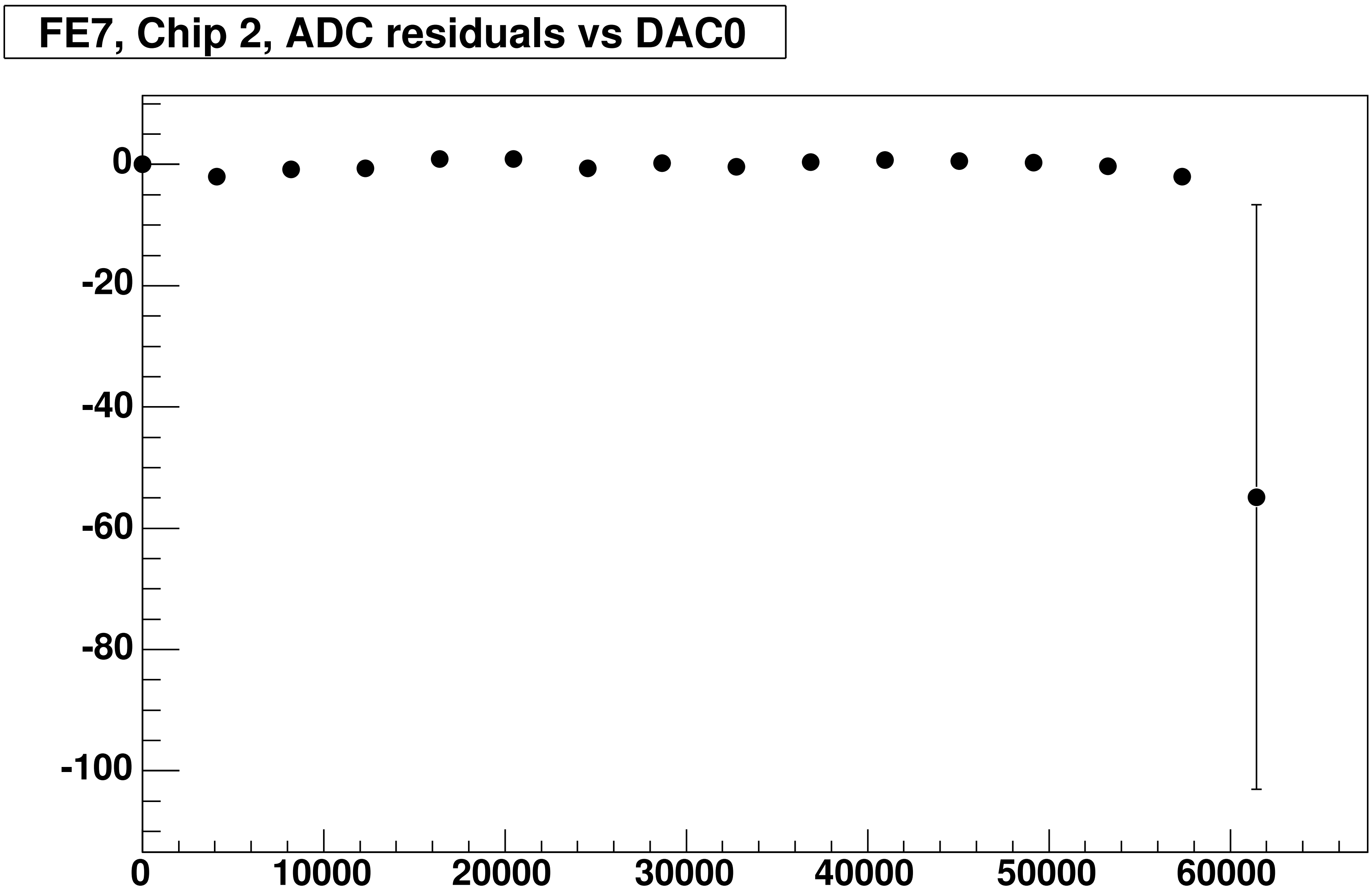
FE7, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

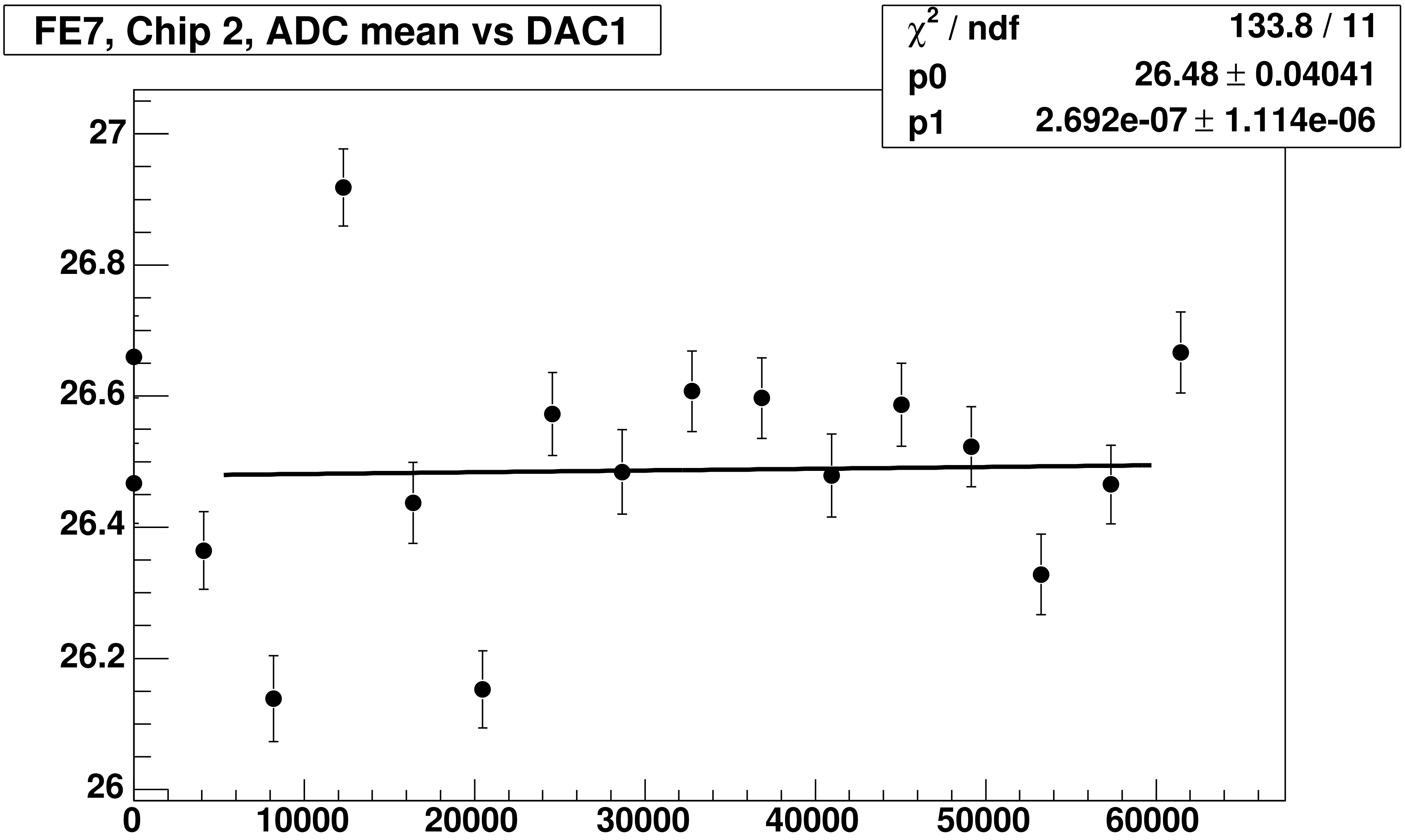

FE7, Chip 1, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000



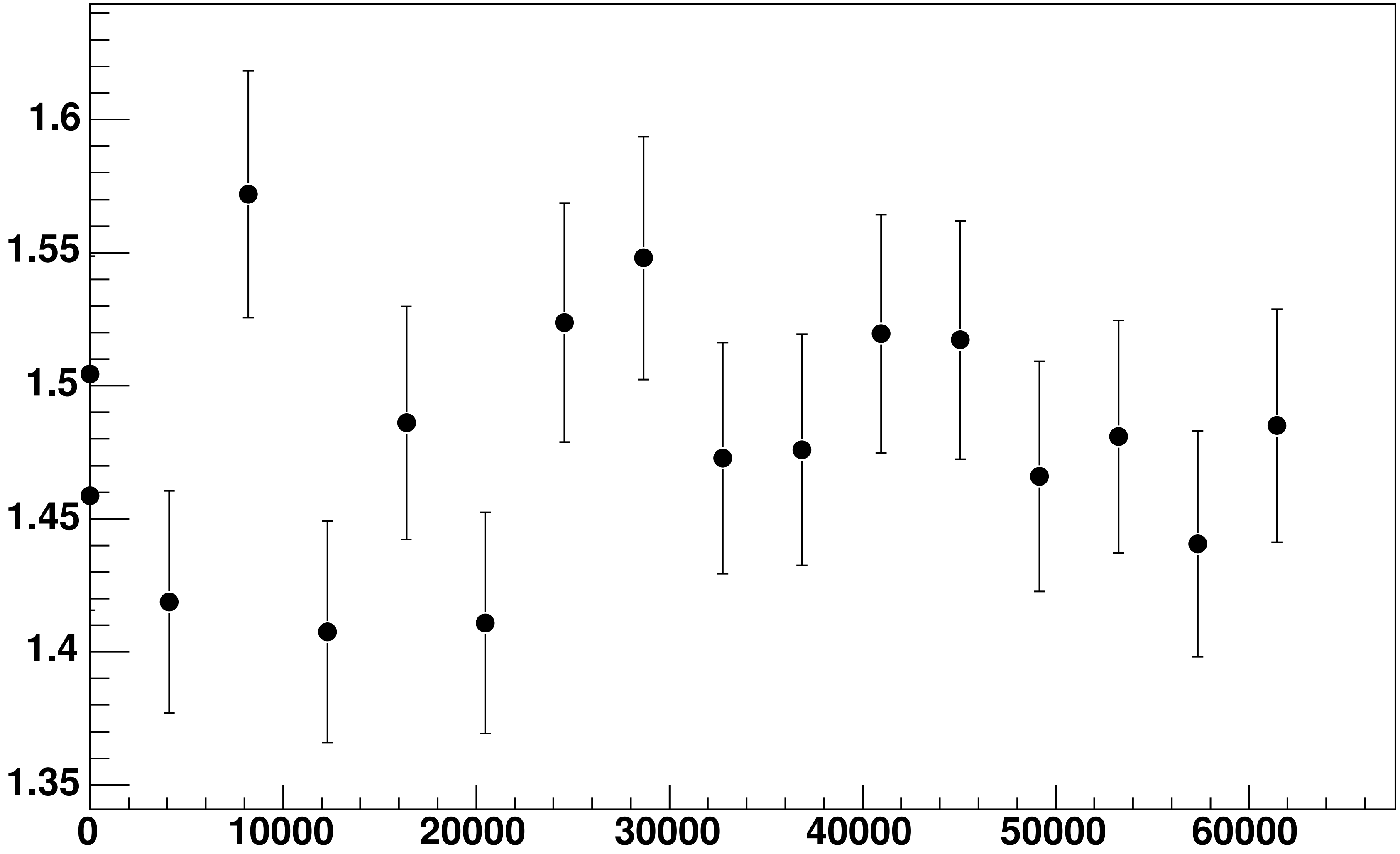
FE7, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1508 / 11
p0 29.08 ± 0.04206
p1 0.4512 ± 1.357e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

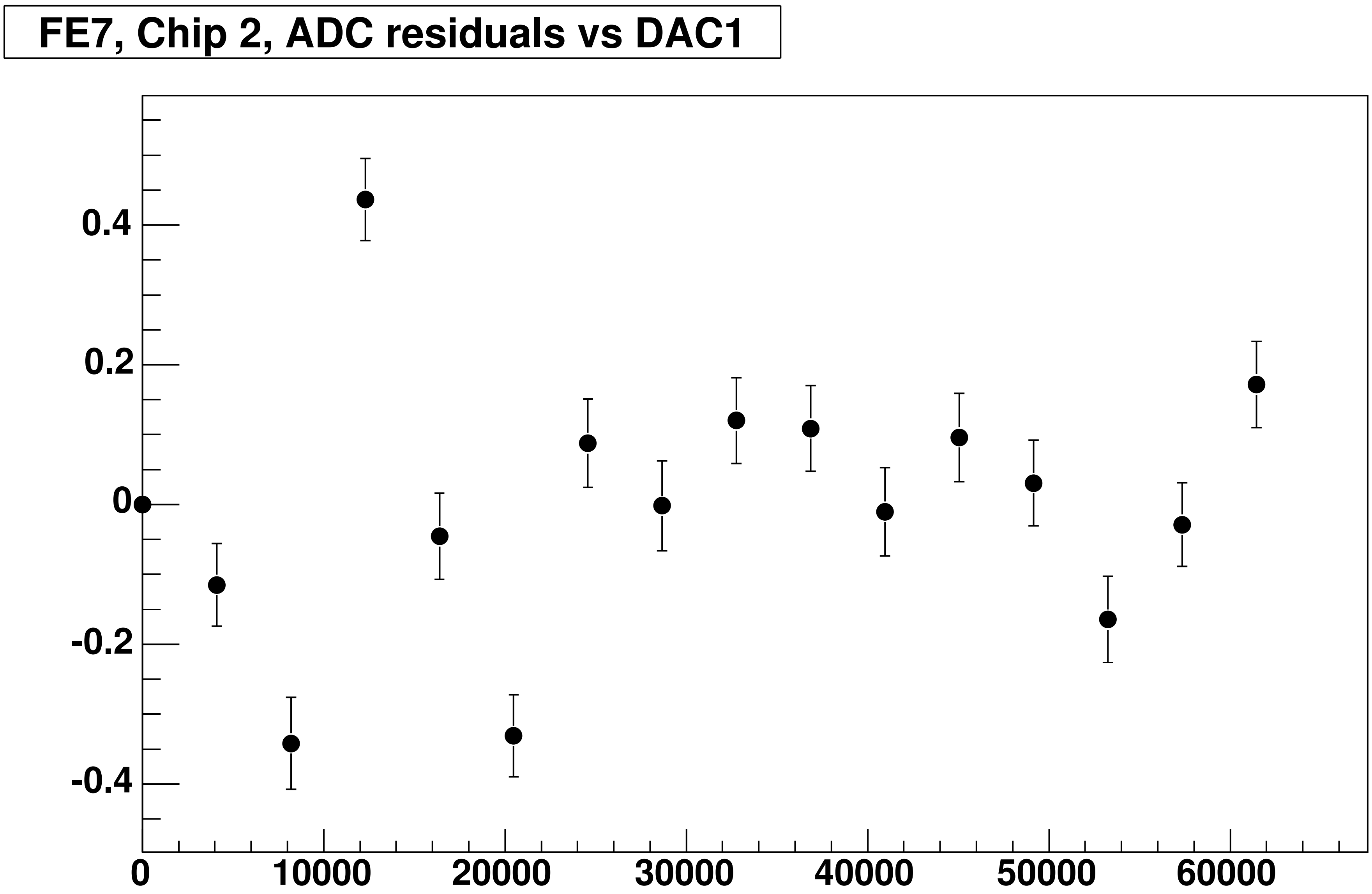

FE7, Chip 2, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

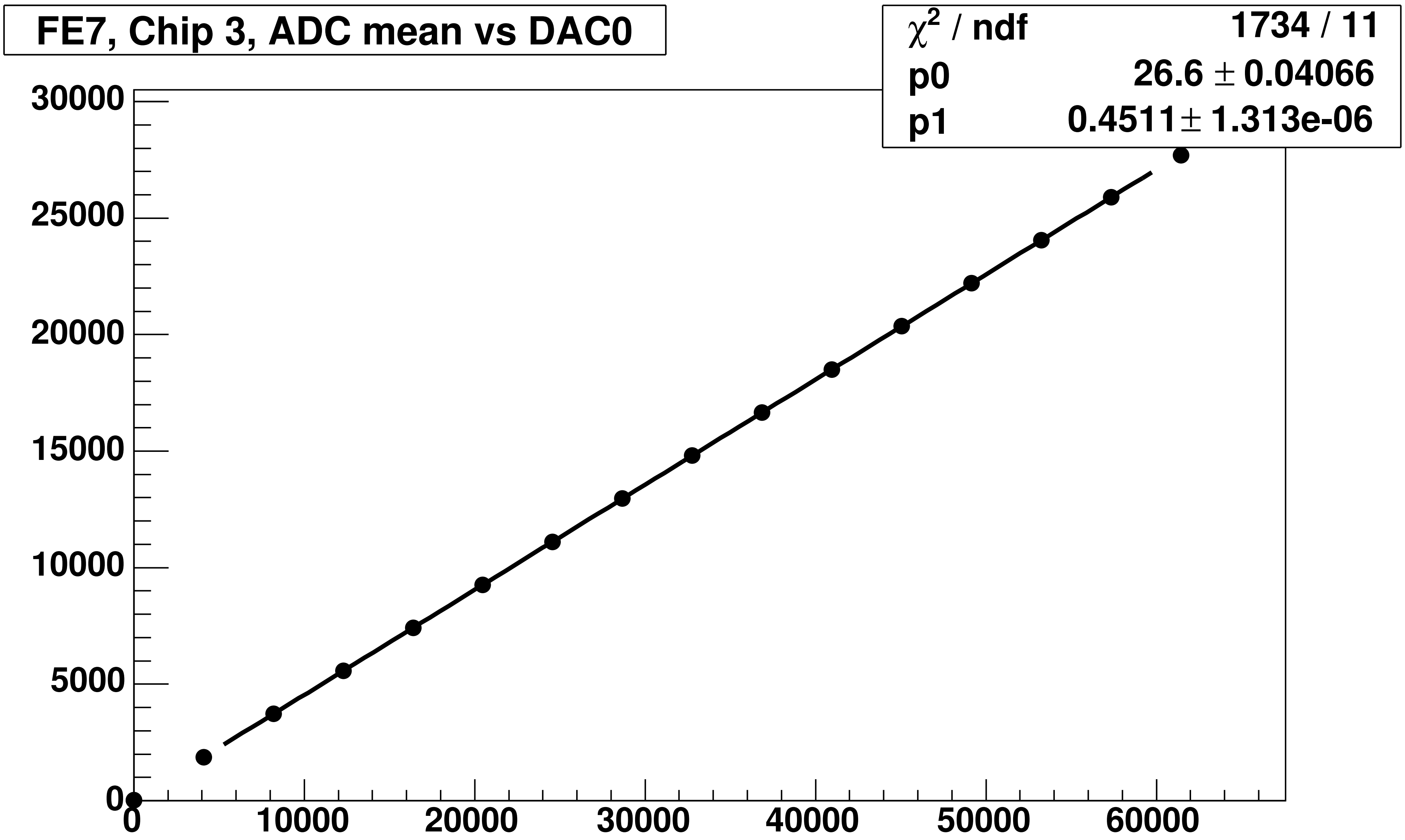

FE7, Chip 2, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE7, Chip 2, ADC mean vs DAC1
χ² / ndf 133.8 / 11
p0 26.48 ± 0.04041
p1 2.692e-07 ± 1.114e-06
27
26.8
26.6
26.4
26.2
26
0
10000
20000
30000
40000
50000
60000

FE7, Chip 2, ADC noise vs DAC1

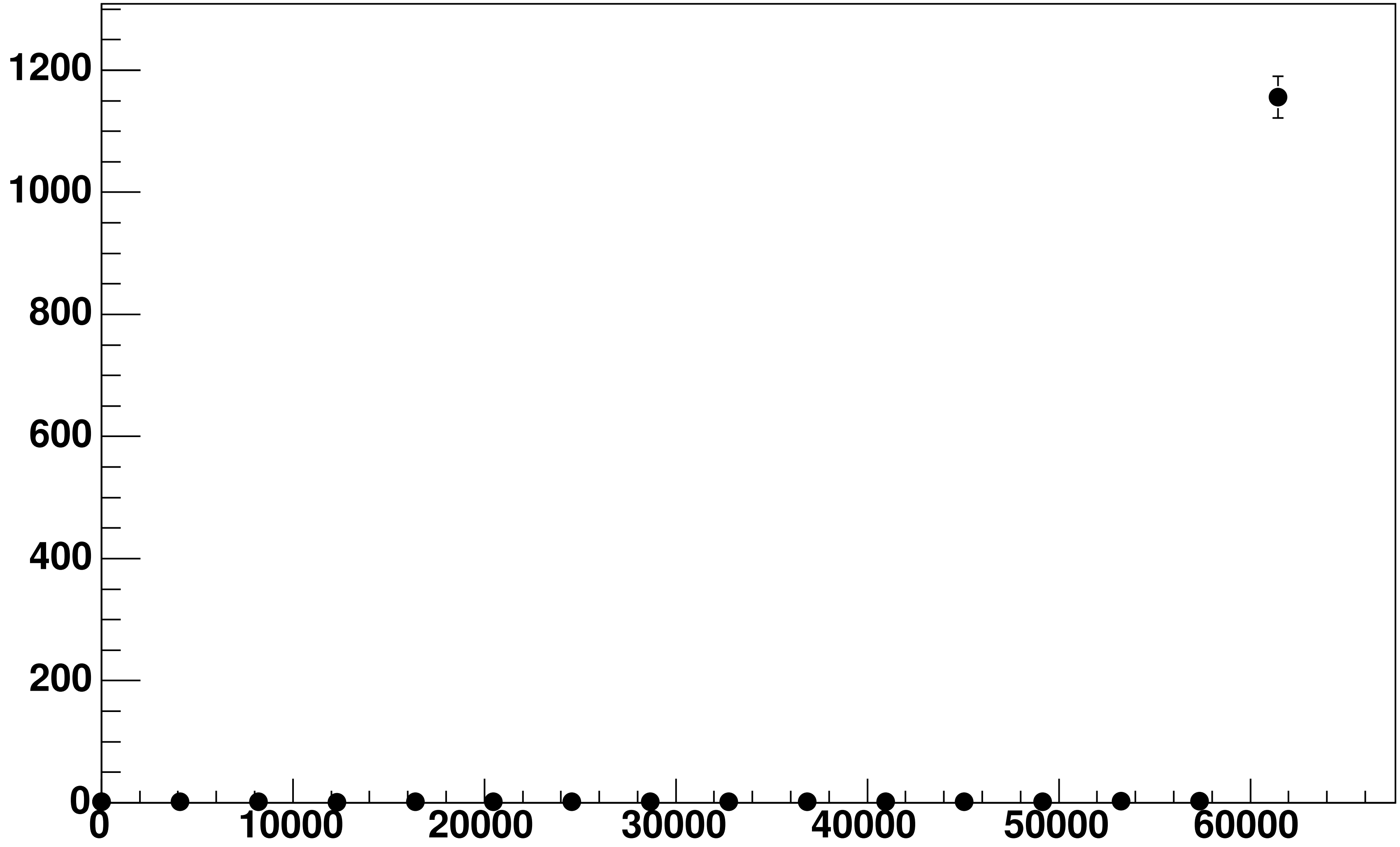



FE7, Chip 2, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

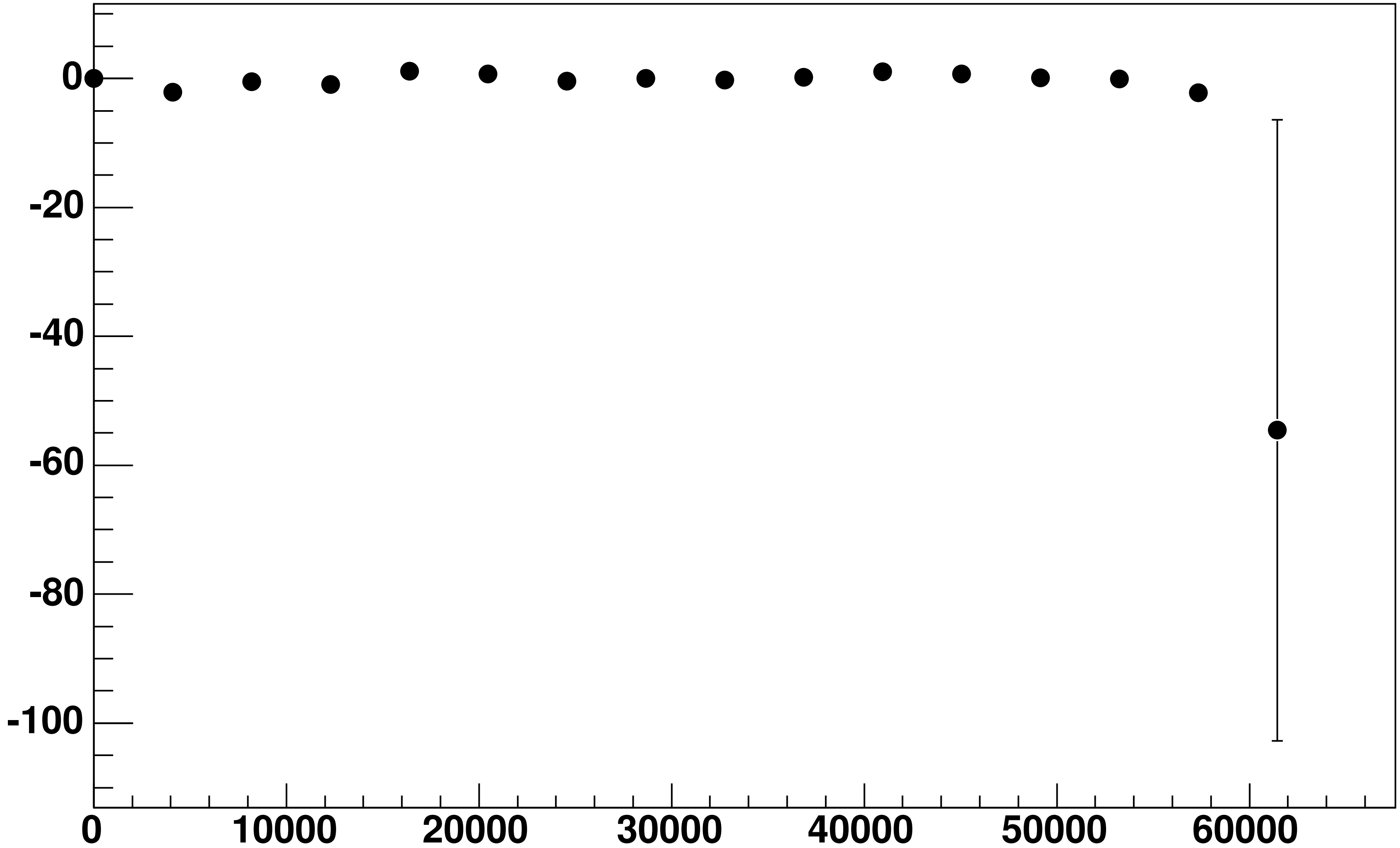


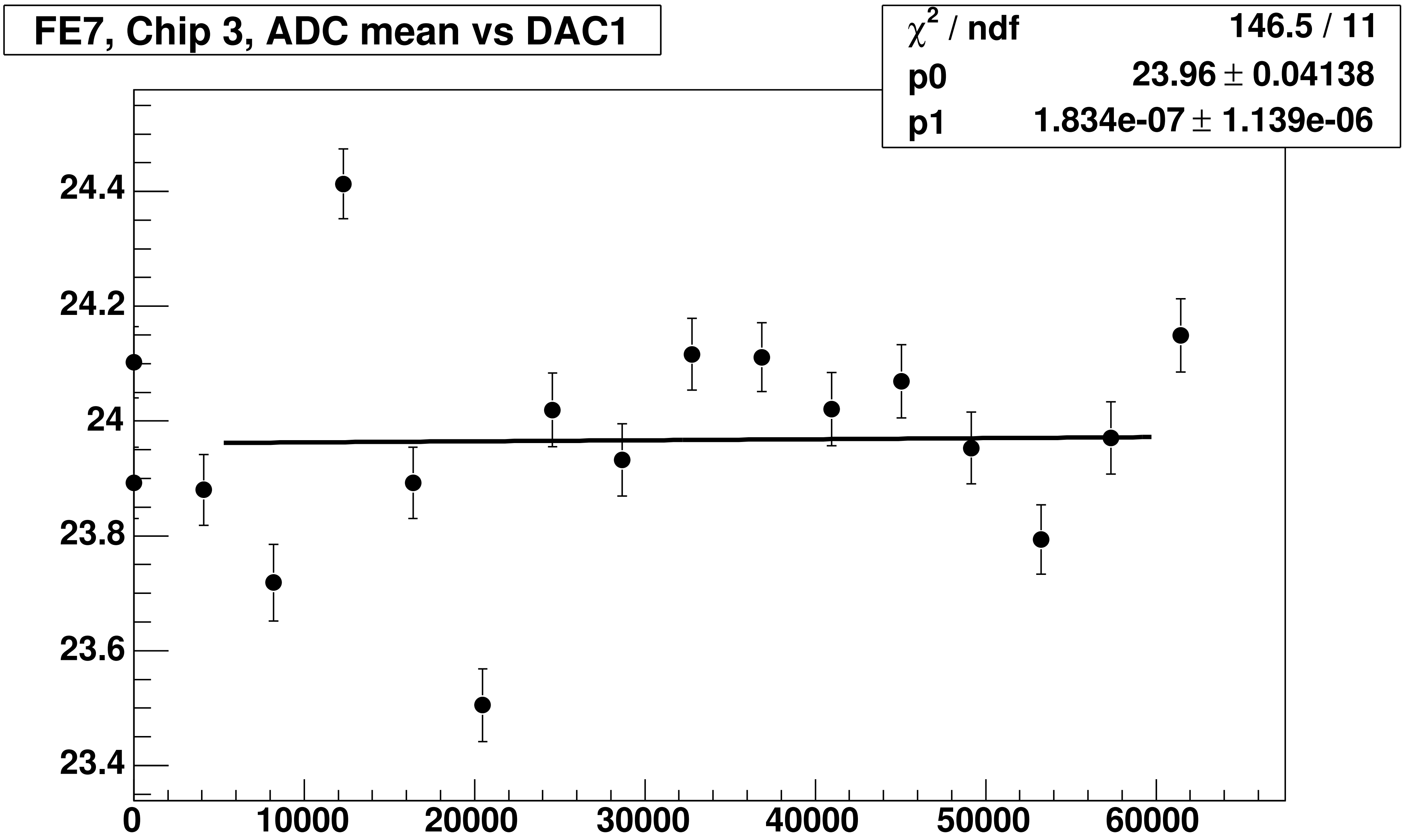
FE7, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1734 / 11
p0 26.6 ± 0.04066
p1 0.4511 ± 1.313e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

FE7, Chip 3, ADC noise vs DAC0

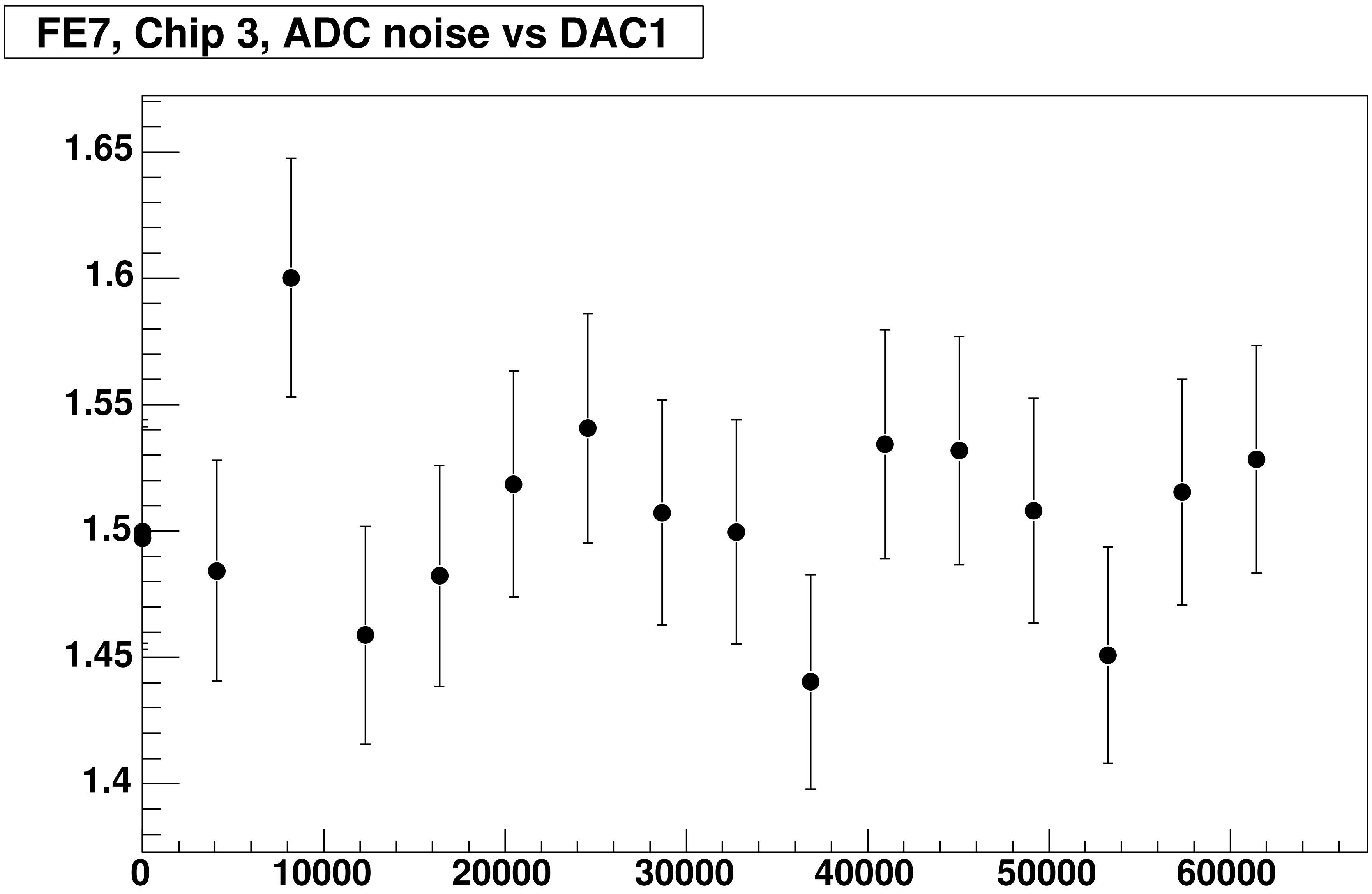


FE7, Chip 3, ADC residuals vs DAC0

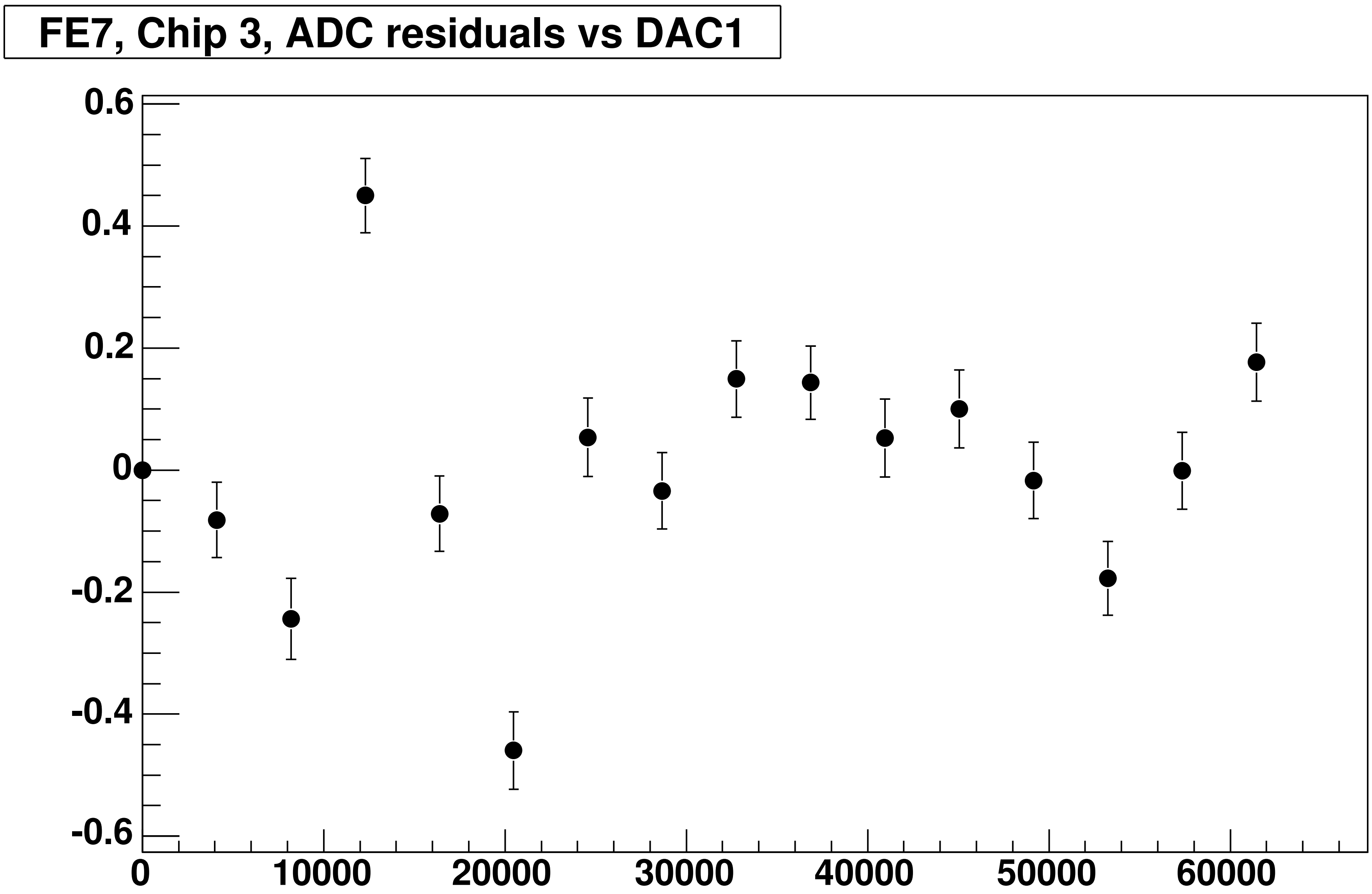




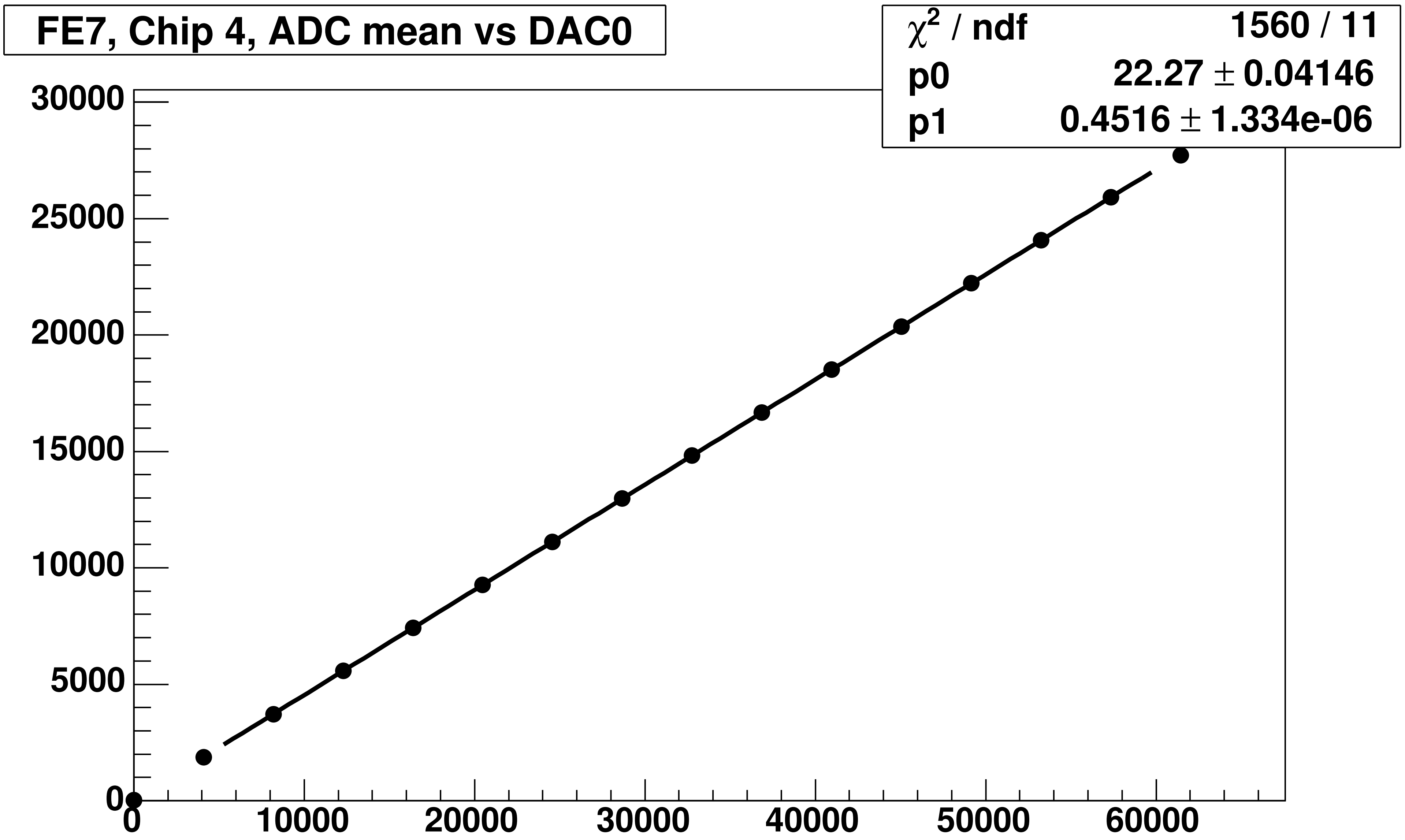
FE7, Chip 3, ADC mean vs DAC1
χ^2 / ndf 146.5 / 11
p0 23.96 ± 0.04138
p1 1.834e-07 ± 1.139e-06
24.4
24.2
24
23.8
23.6
23.4
0
10000
20000
30000
40000
50000
60000



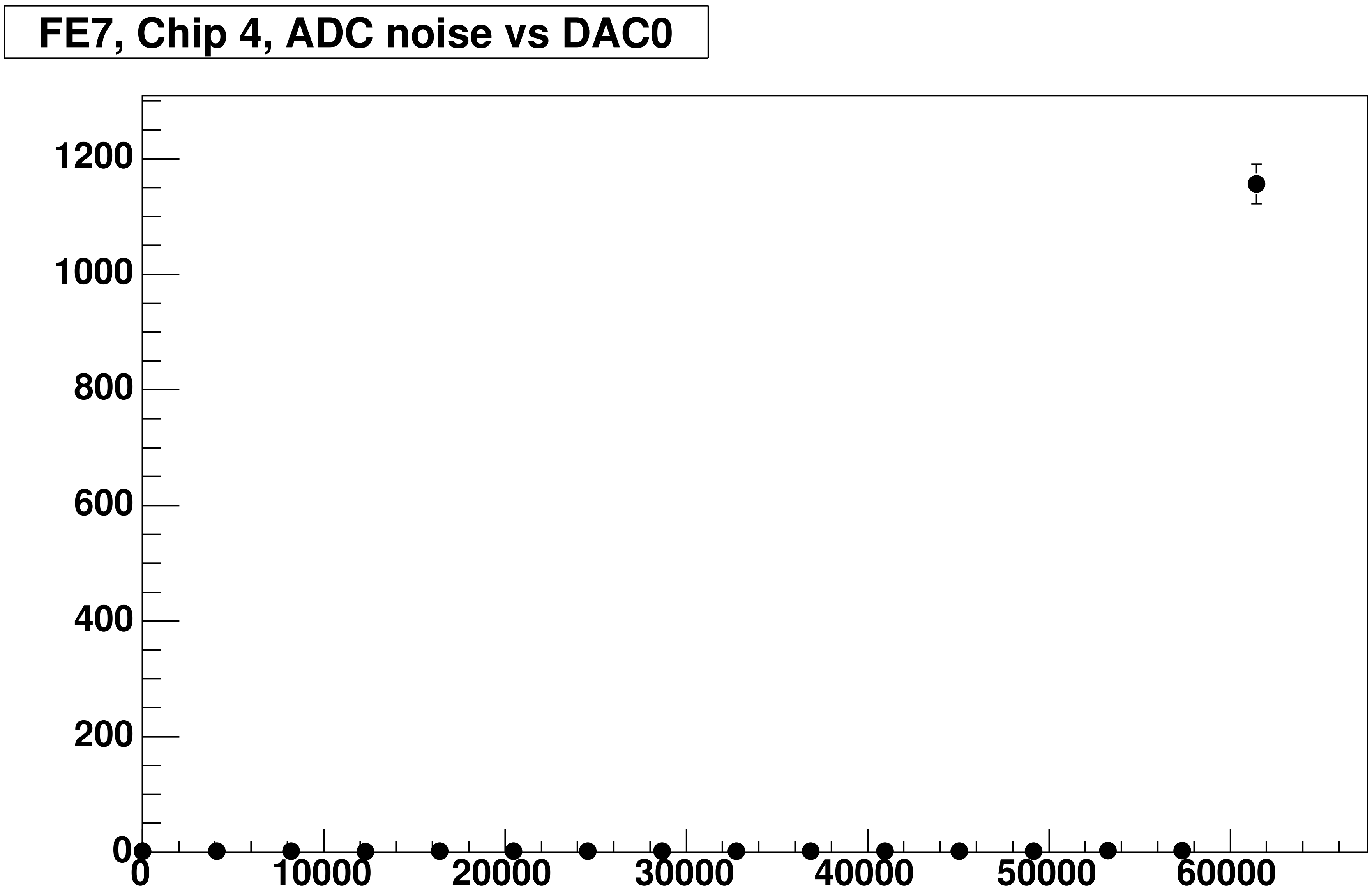
FE7, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

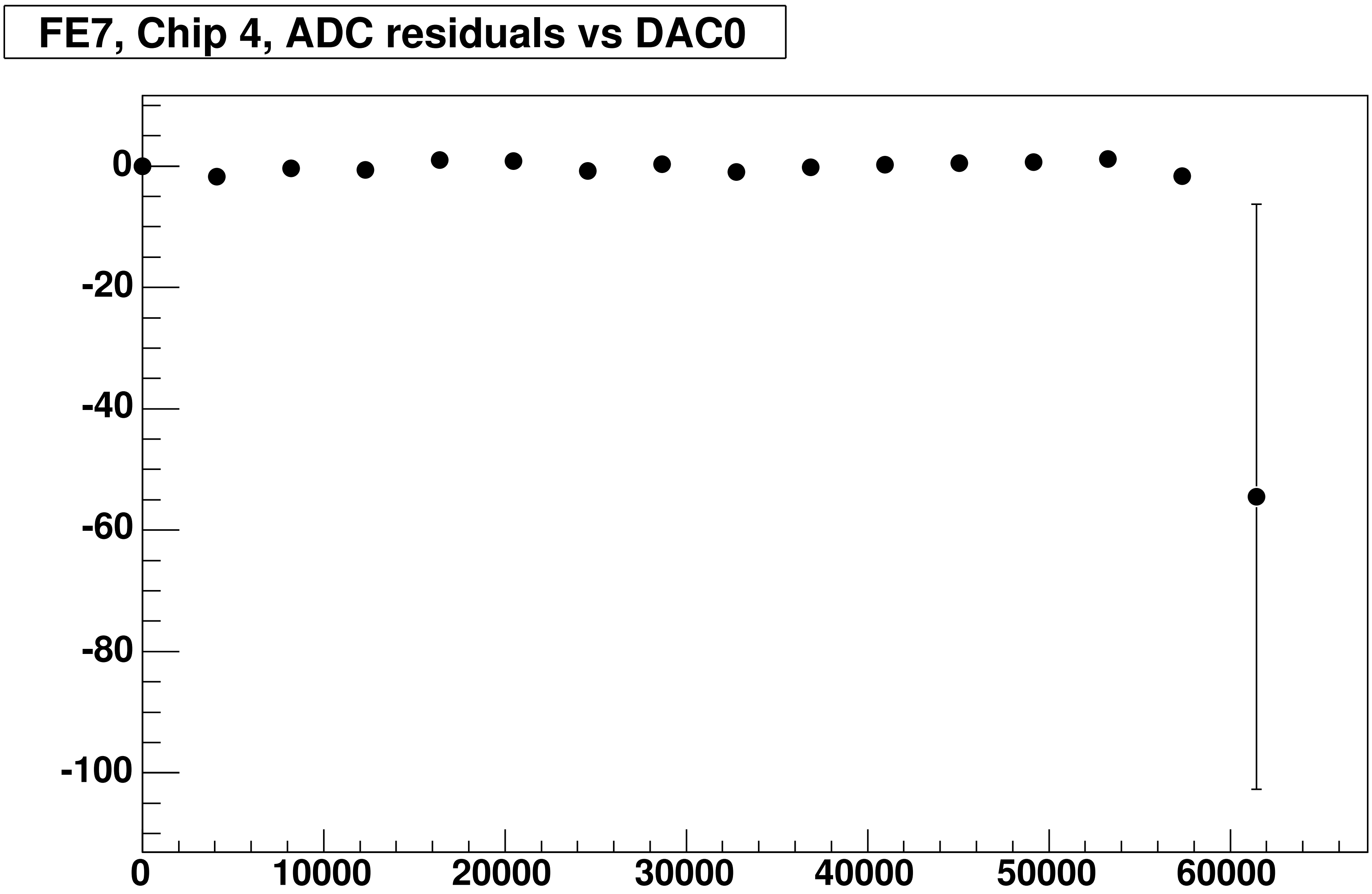


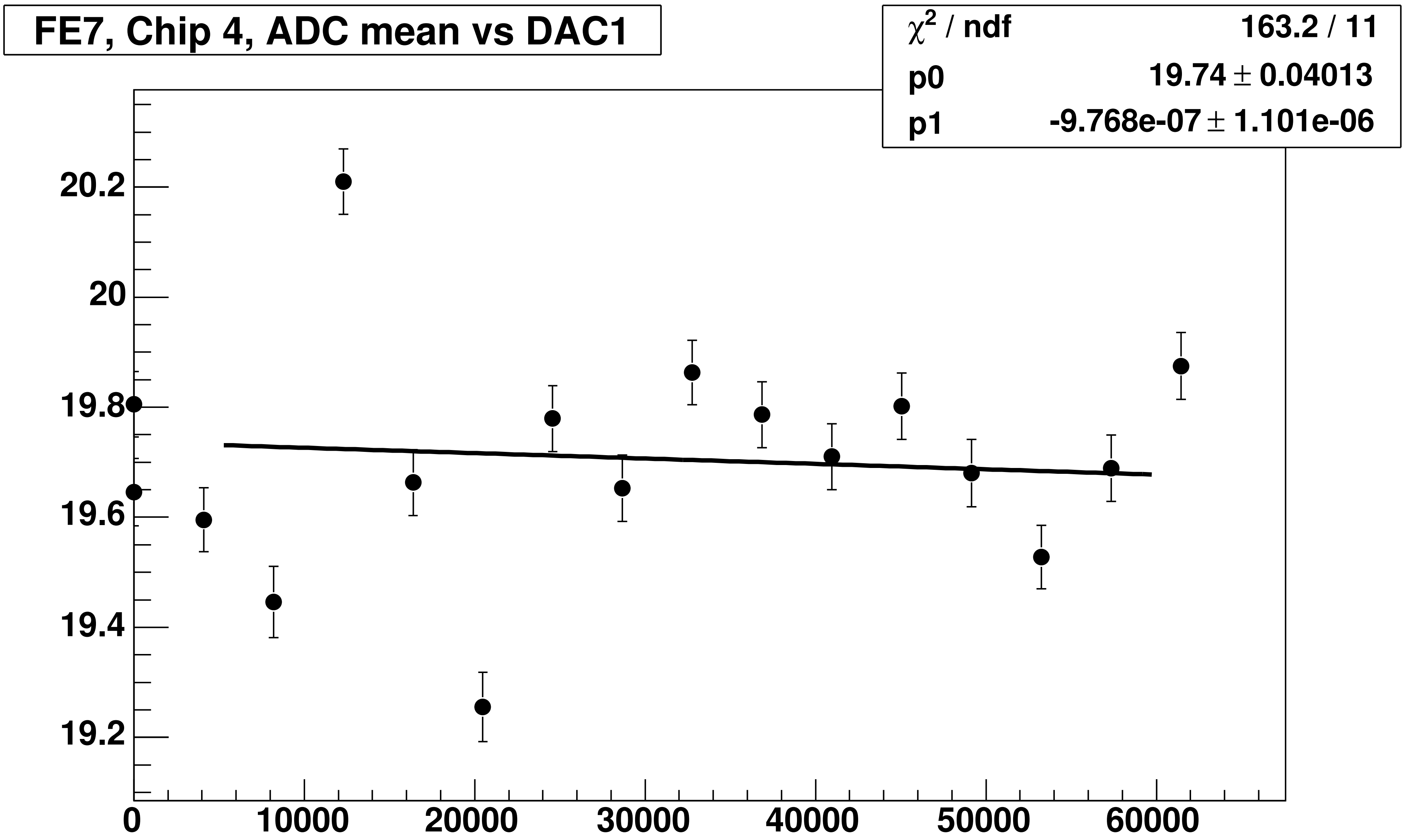
FE7, Chip 3, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

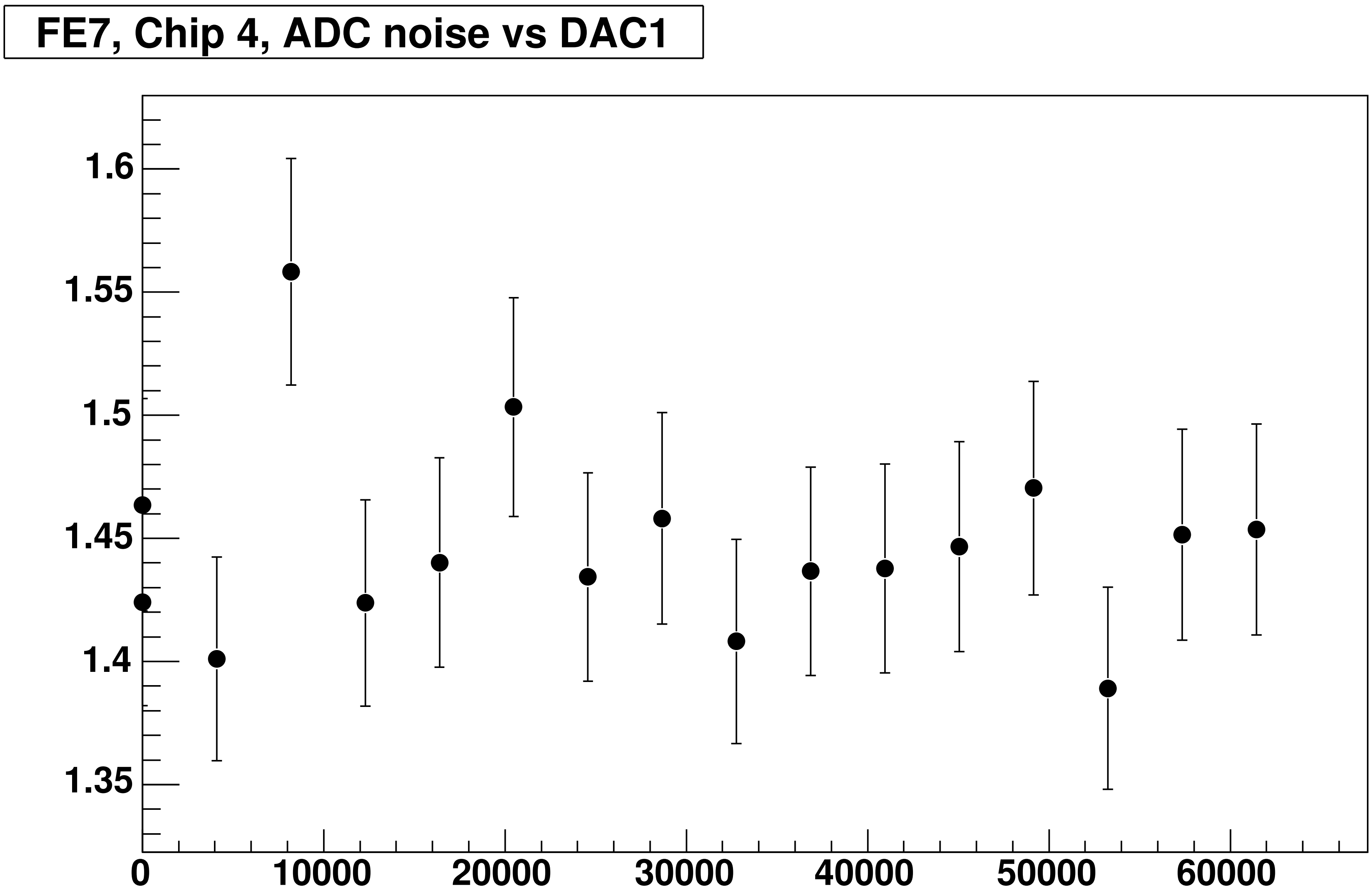


FE7, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1560 / 11
p0 22.27 ± 0.04146
p1 0.4516 ± 1.334e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

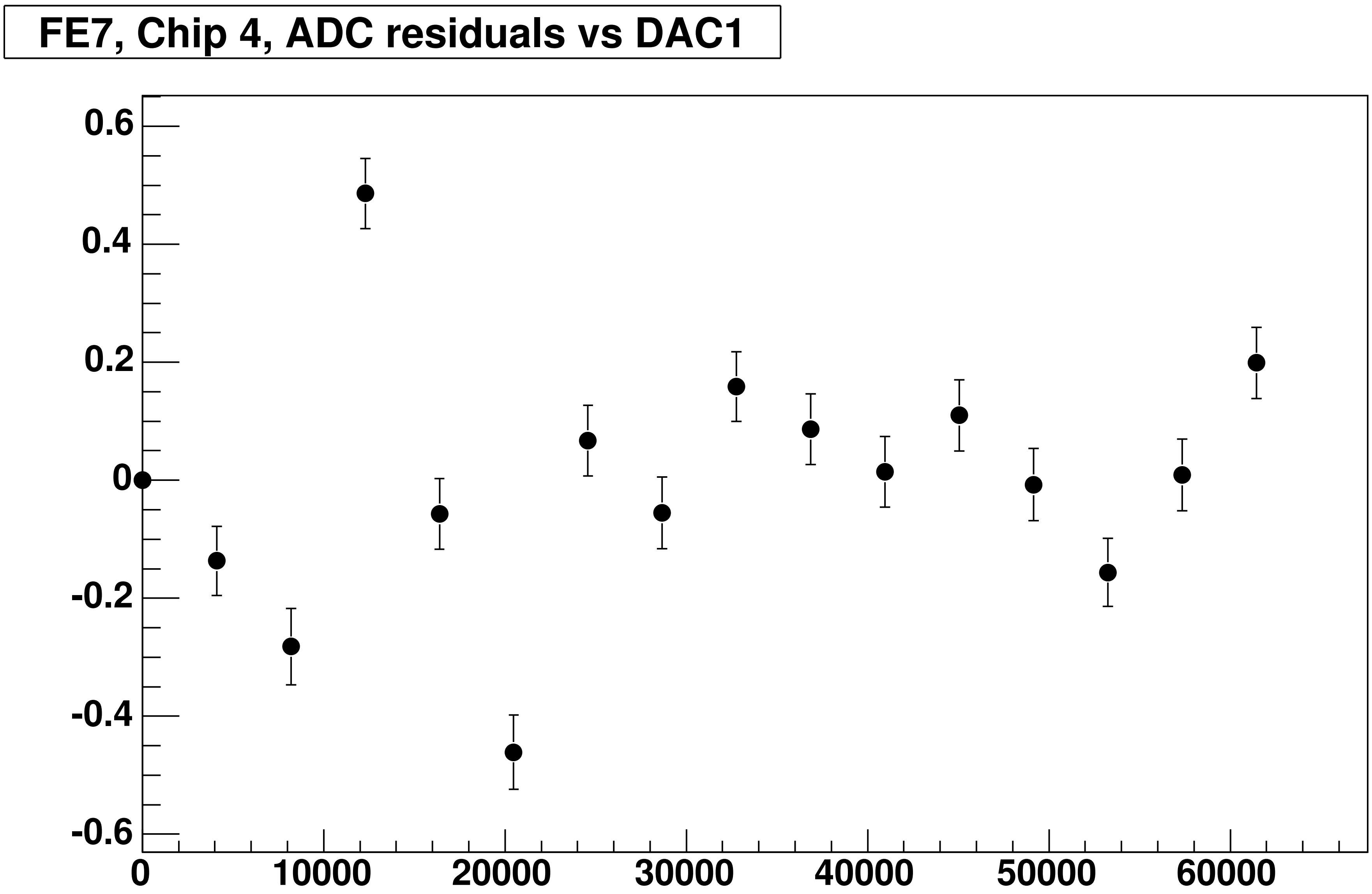

FE7, Chip 4, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000

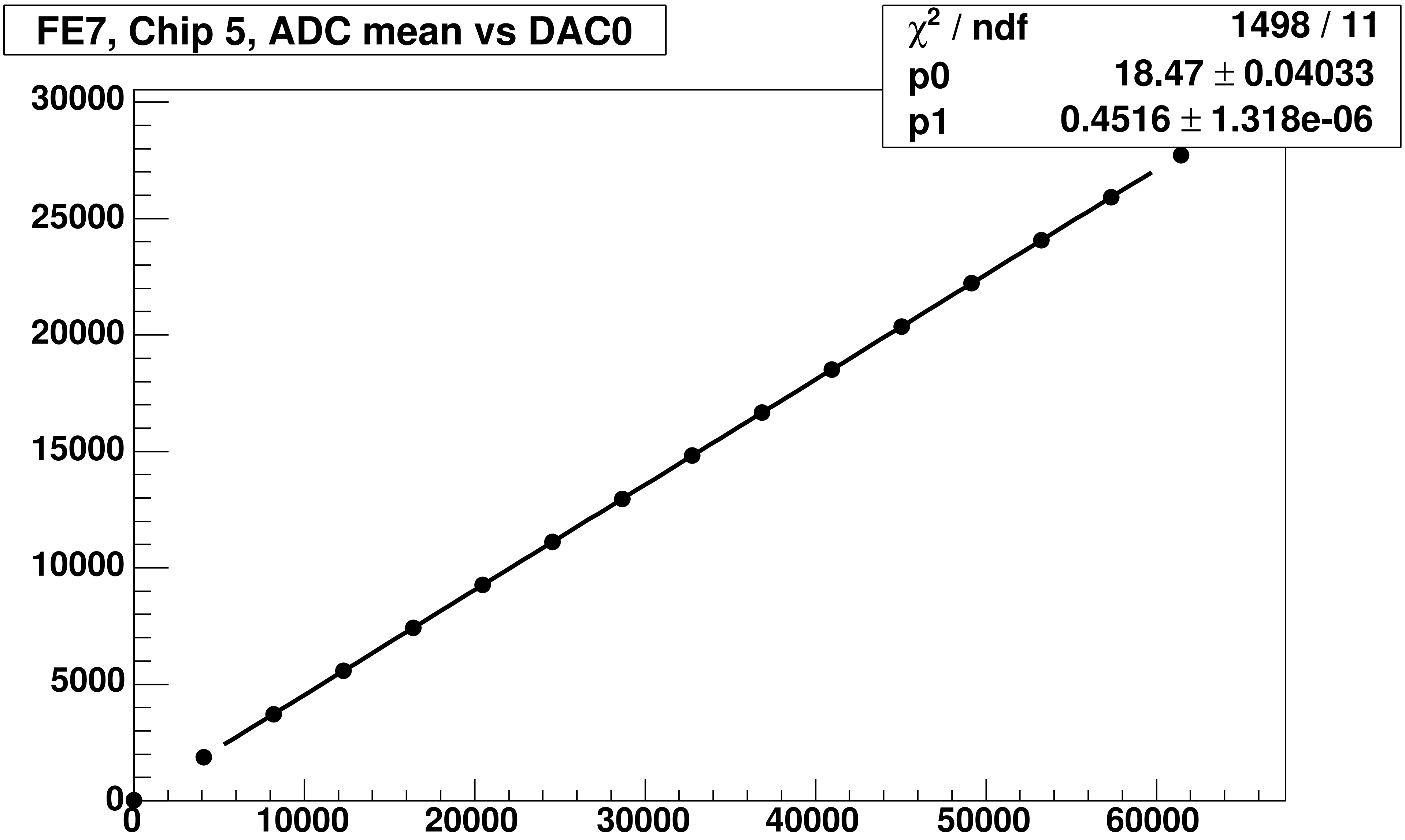

FE7, Chip 4, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC mean vs DAC1
χ^2 / ndf 163.2 / 11
p0 19.74 ± 0.04013
p1 -9.768e-07 ± 1.101e-06
20.2
20
19.8
19.6
19.4
19.2
0
10000
20000
30000
40000
50000
60000

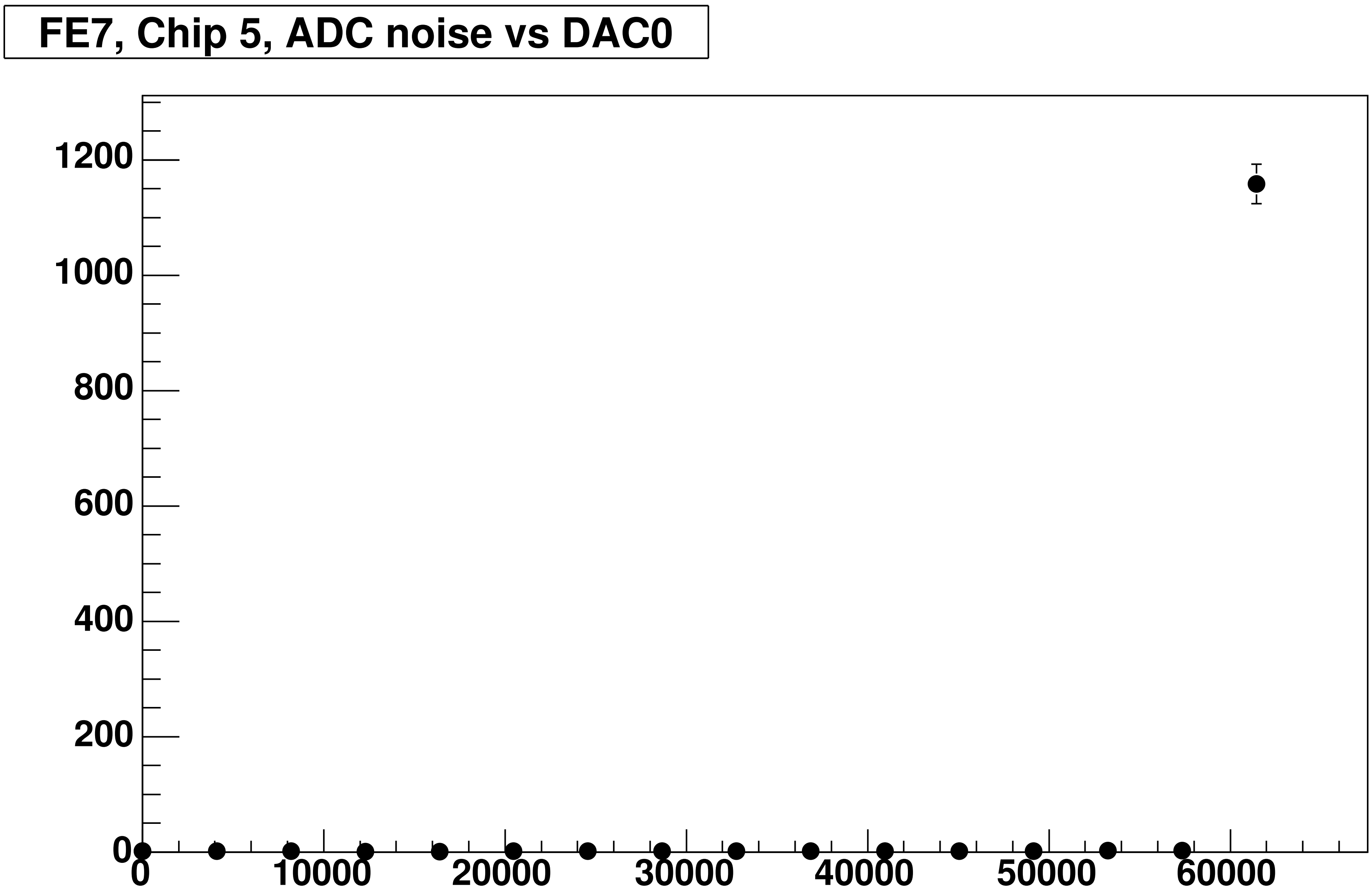


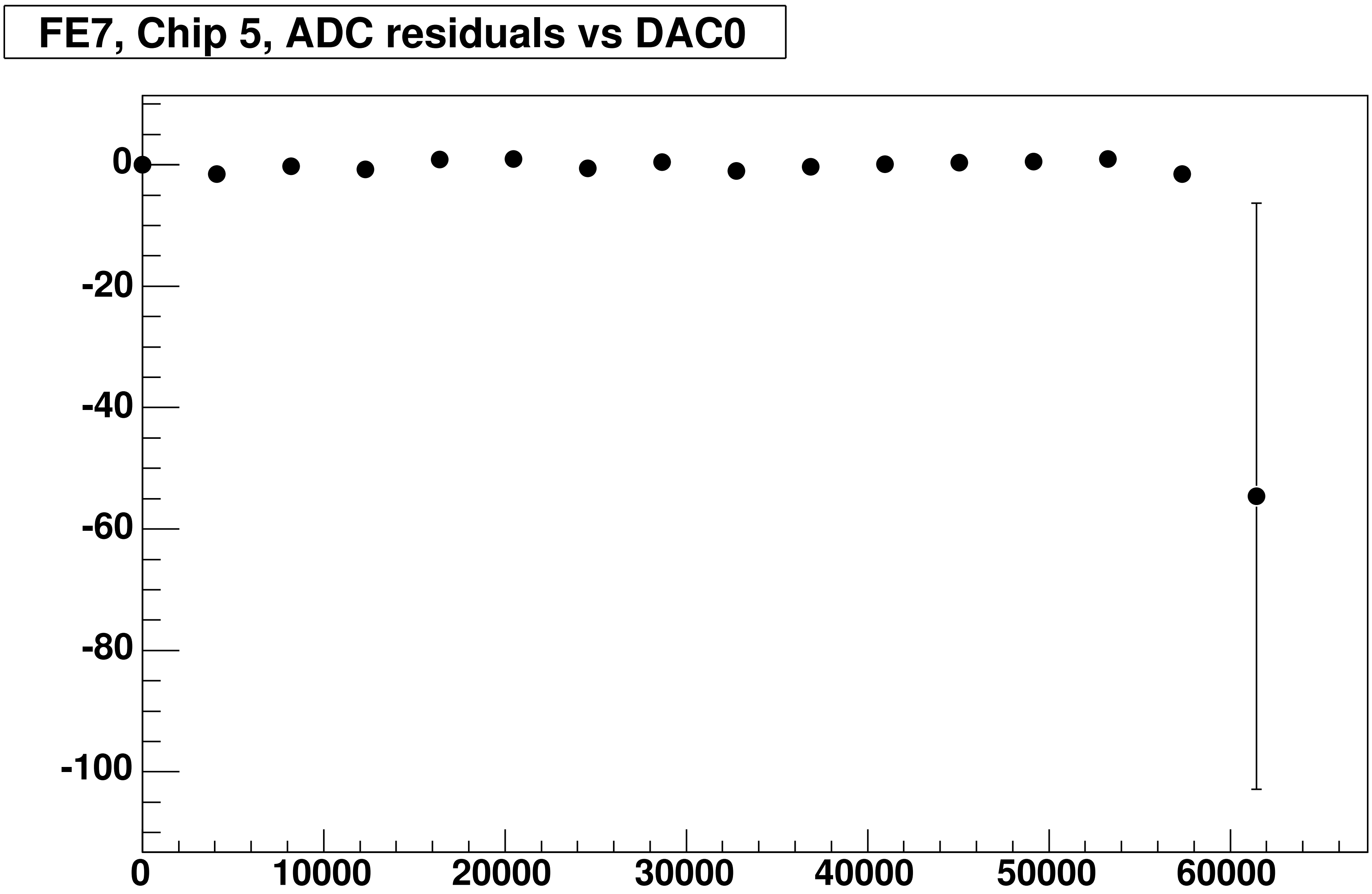
FE7, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

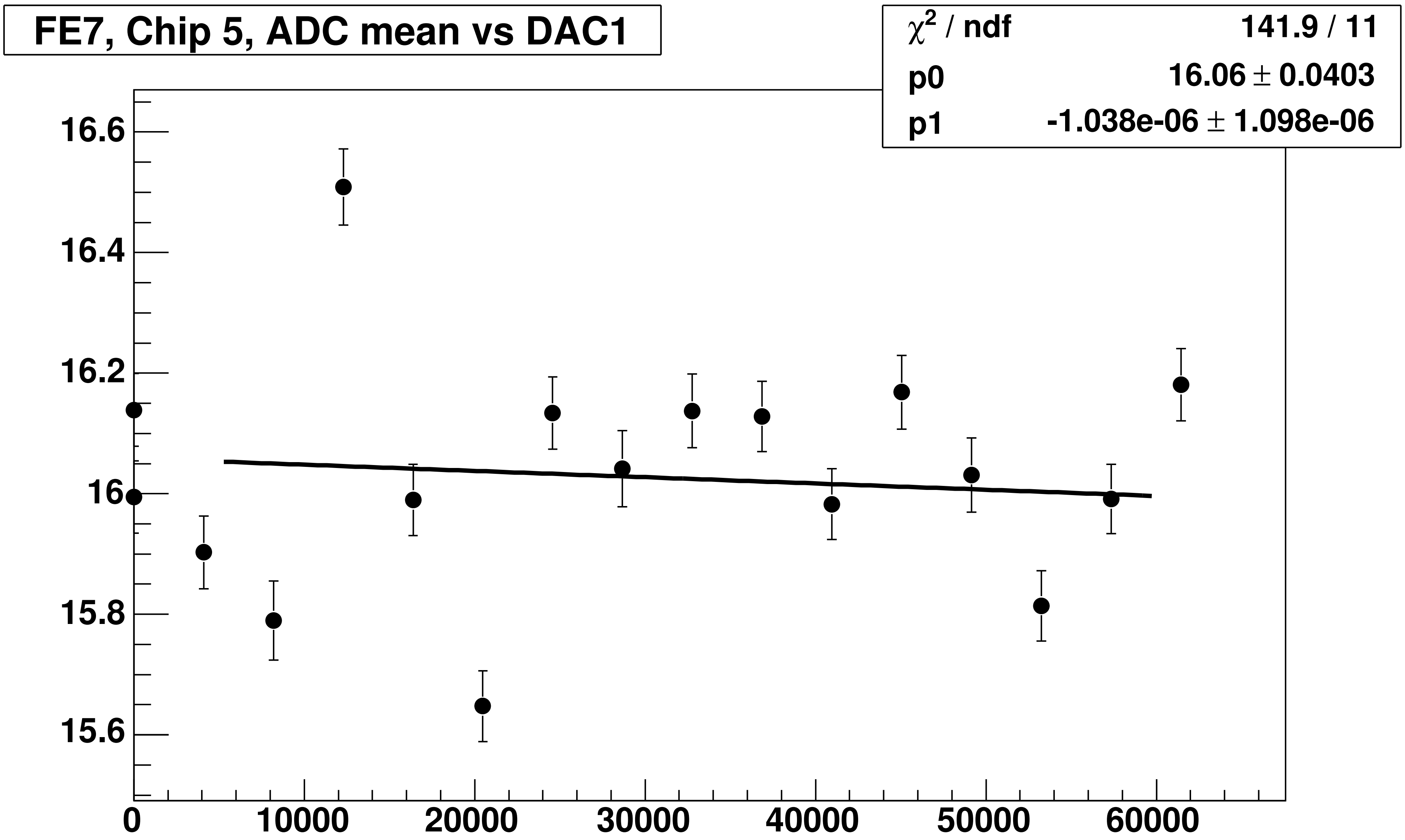


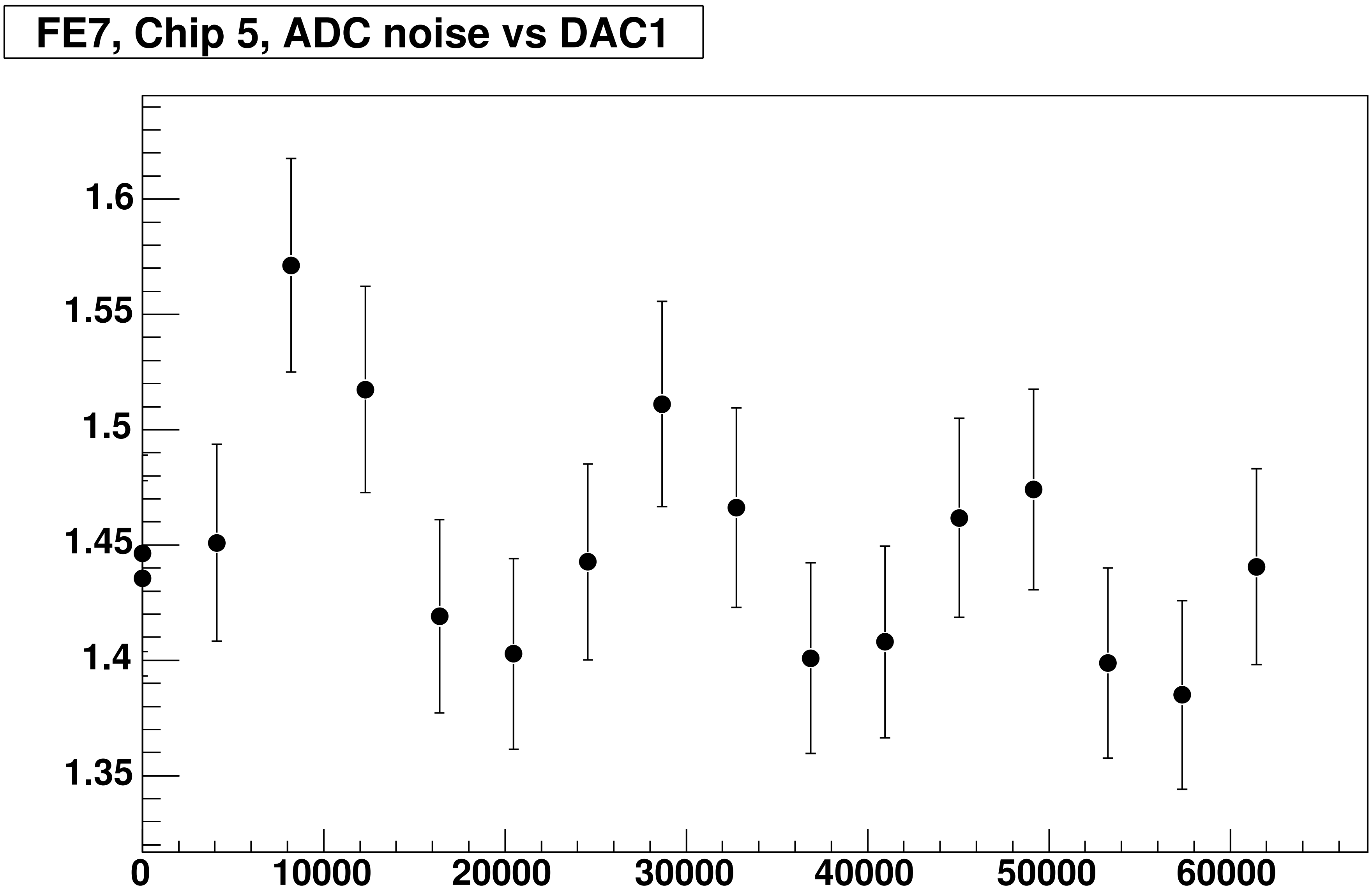
FE7, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1498 / 11
p0 18.47 ± 0.04033
p1 0.4516 ± 1.318e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

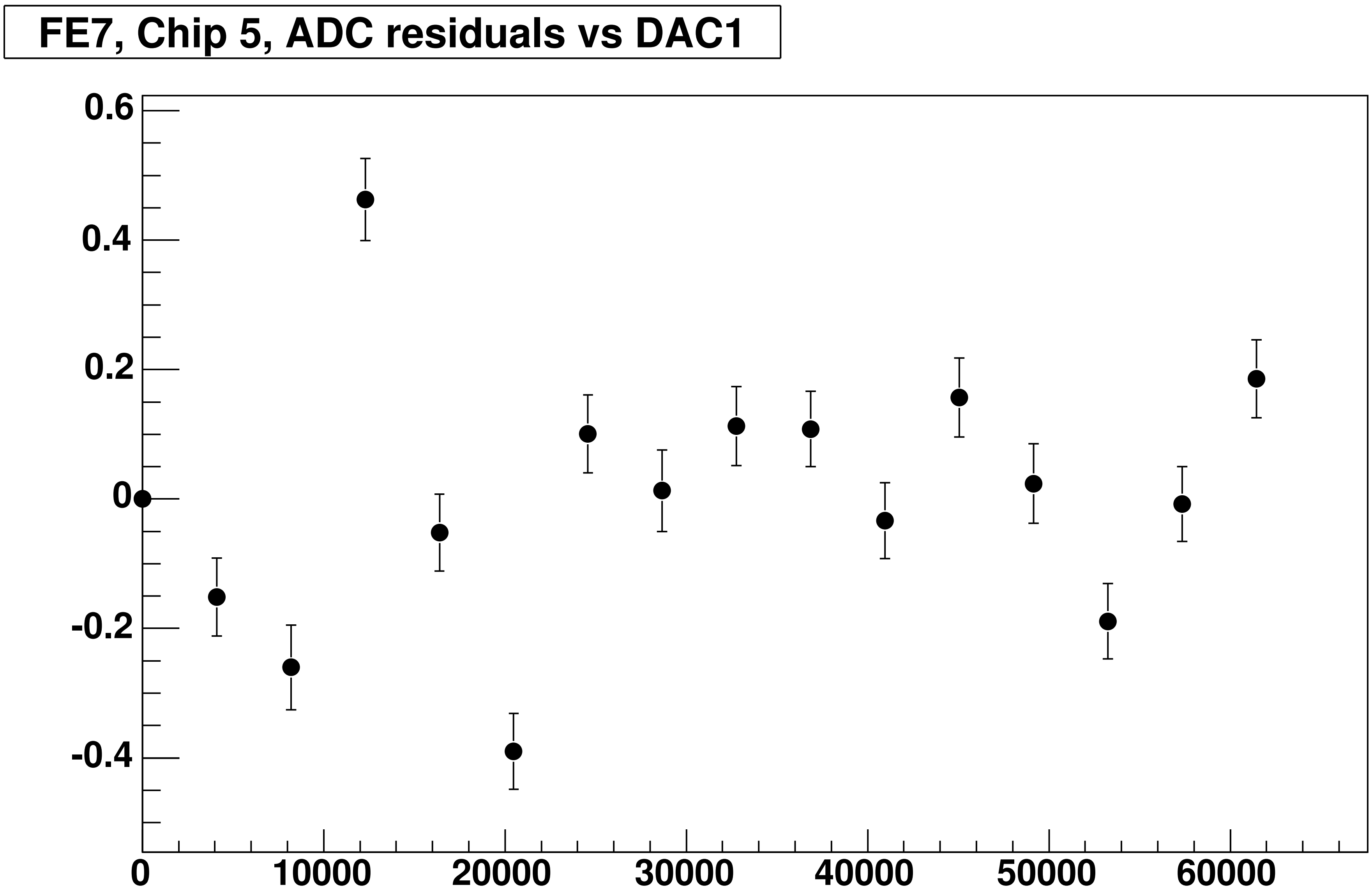

FE7, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

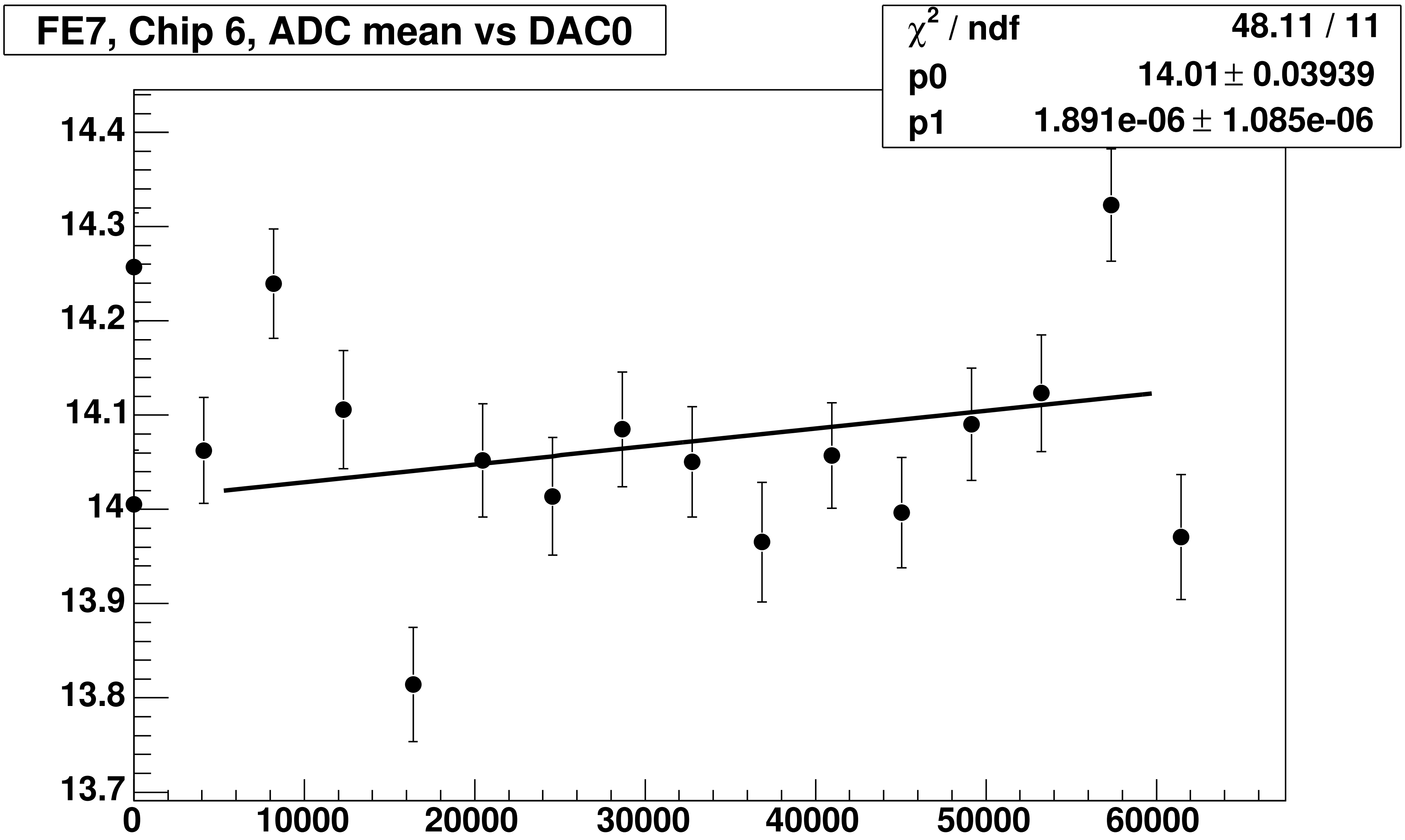


FE7, Chip 5, ADC residuals vs DAC0
0
-20
-40
-60
-80
-100
0
10000
20000
30000
40000
50000
60000

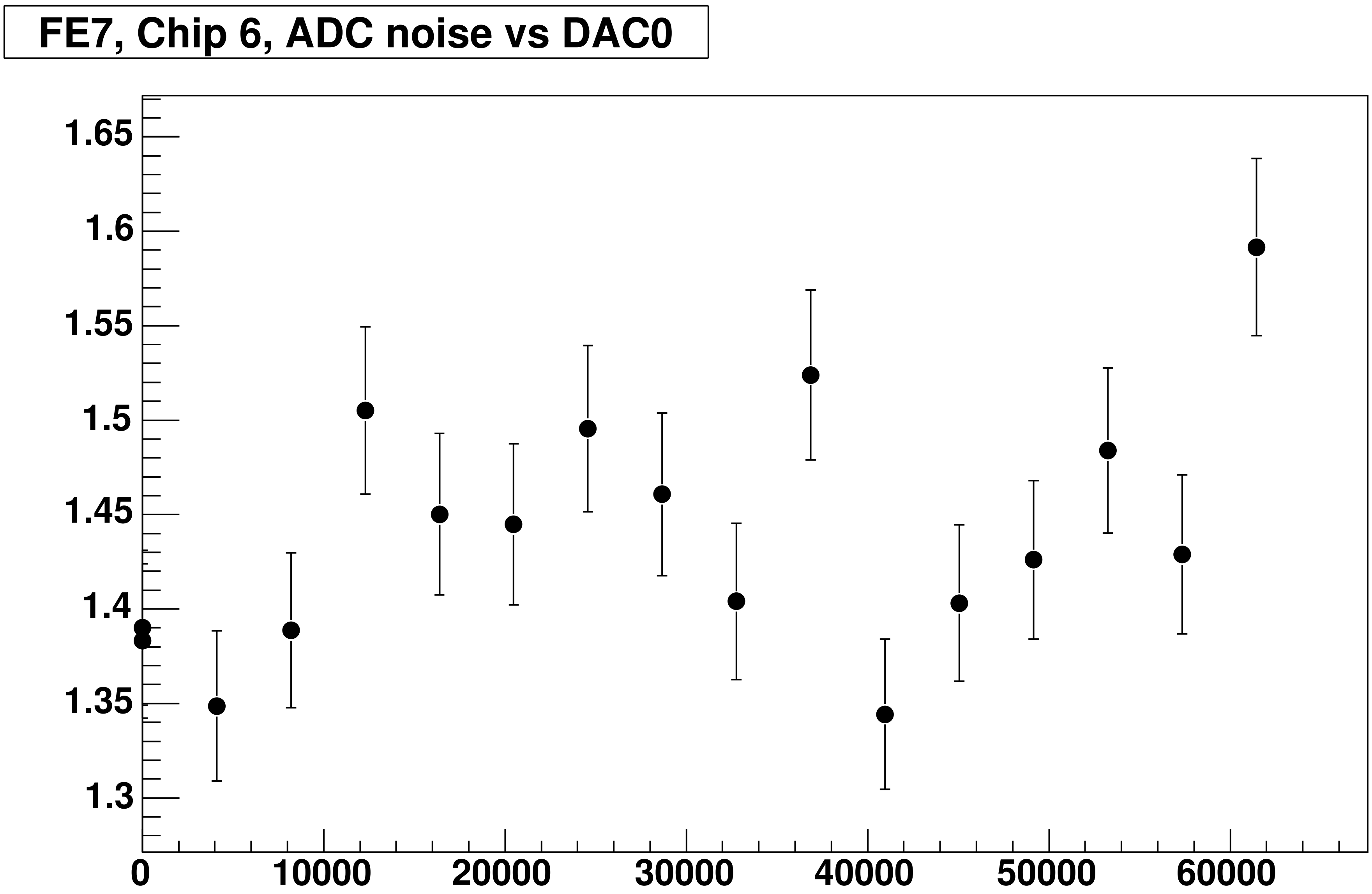

FE7, Chip 5, ADC mean vs DAC1
χ^2 / ndf 141.9 / 11
p0 16.06 ± 0.0403
p1 -1.038e-06 ± 1.098e-06
16.6
16.4
16.2
16
15.8
15.6
0
10000
20000
30000
40000
50000
60000

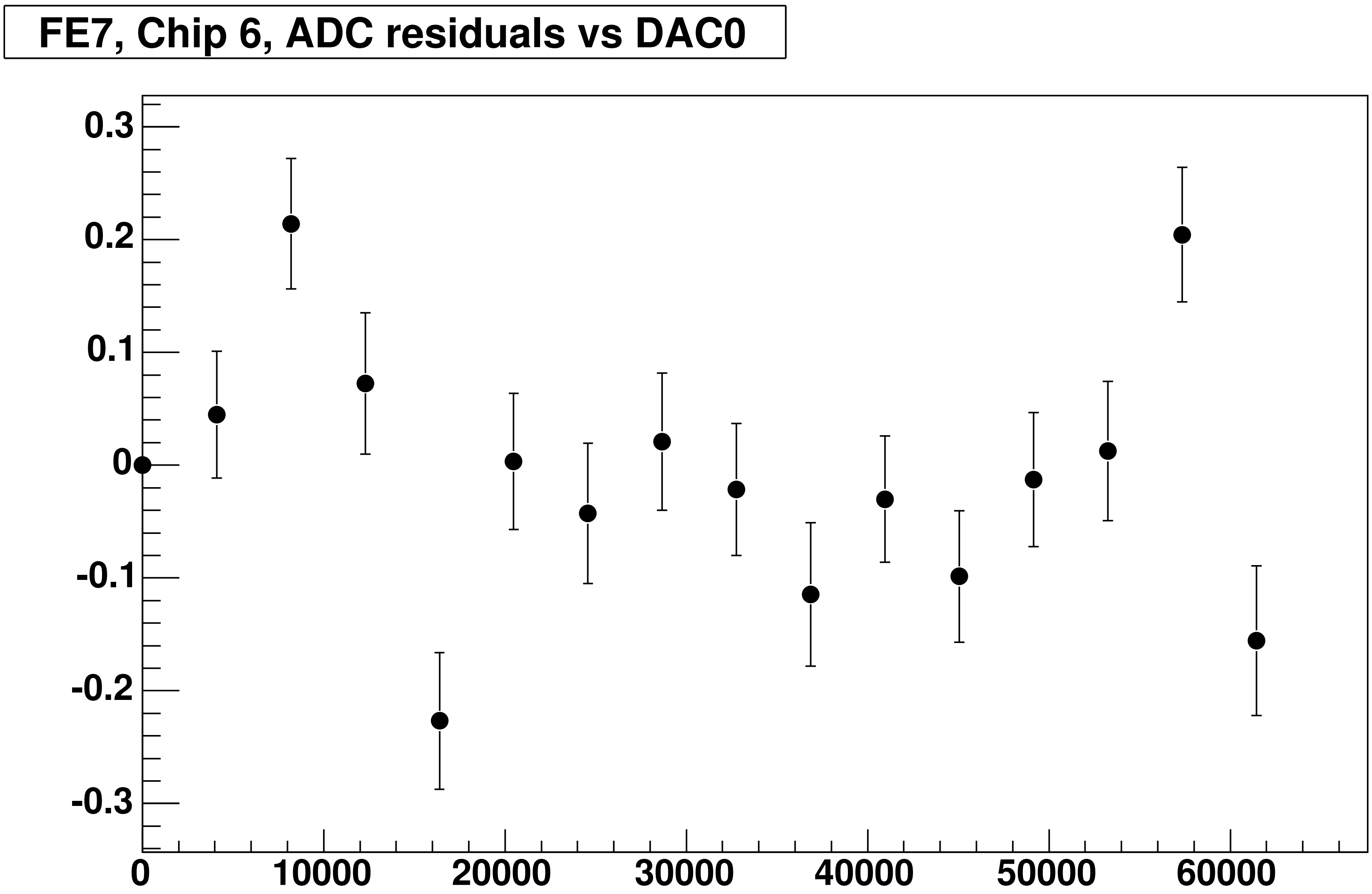

FE7, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE7, Chip 5, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

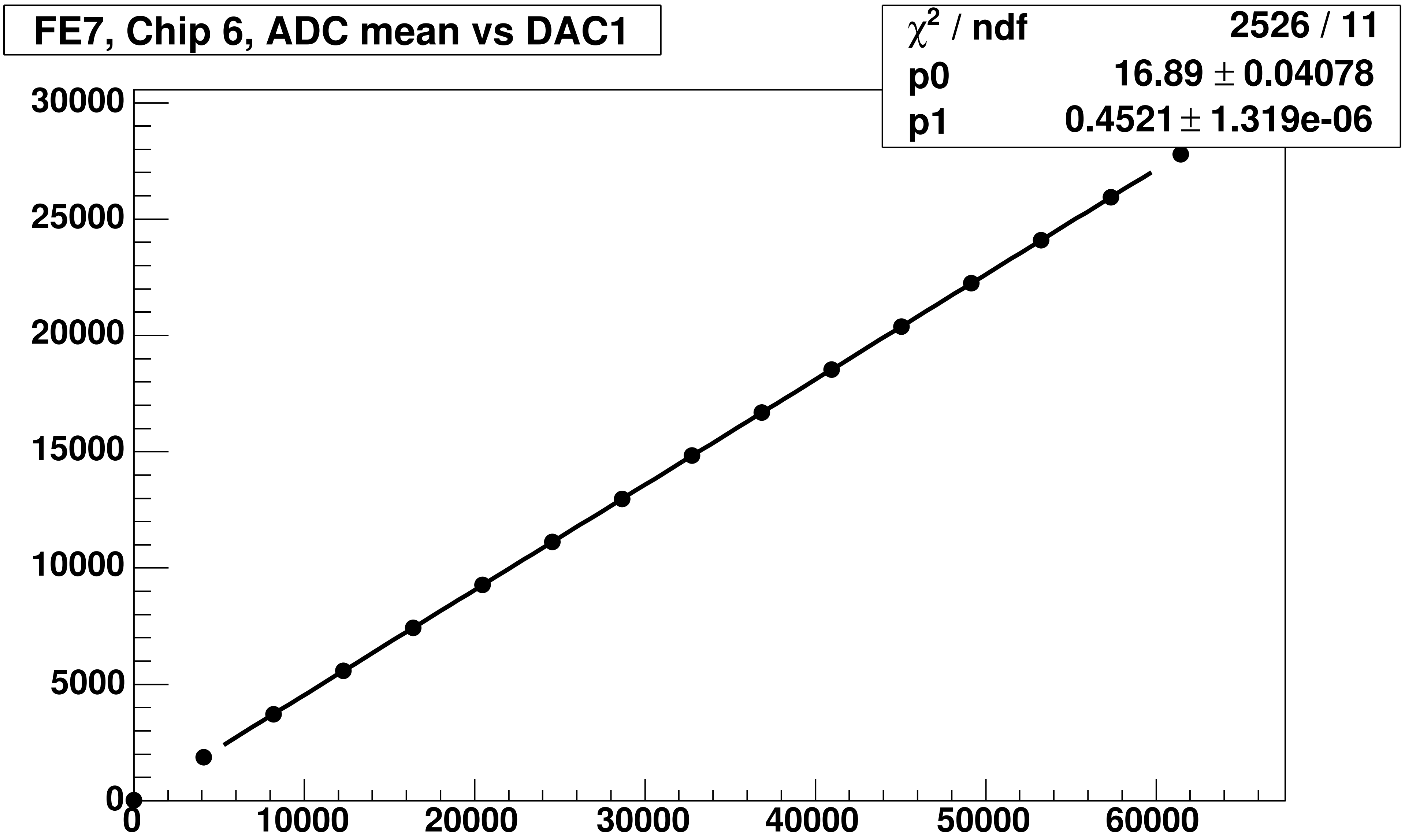


FE7, Chip 6, ADC mean vs DAC0
χ^2 / ndf 48.11 / 11
p0 14.01 ± 0.03939
p1 1.891e-06 ± 1.085e-06
14.4
14.3
14.2
14.1
14
13.9
13.8
13.7
0
10000
20000
30000
40000
50000
60000

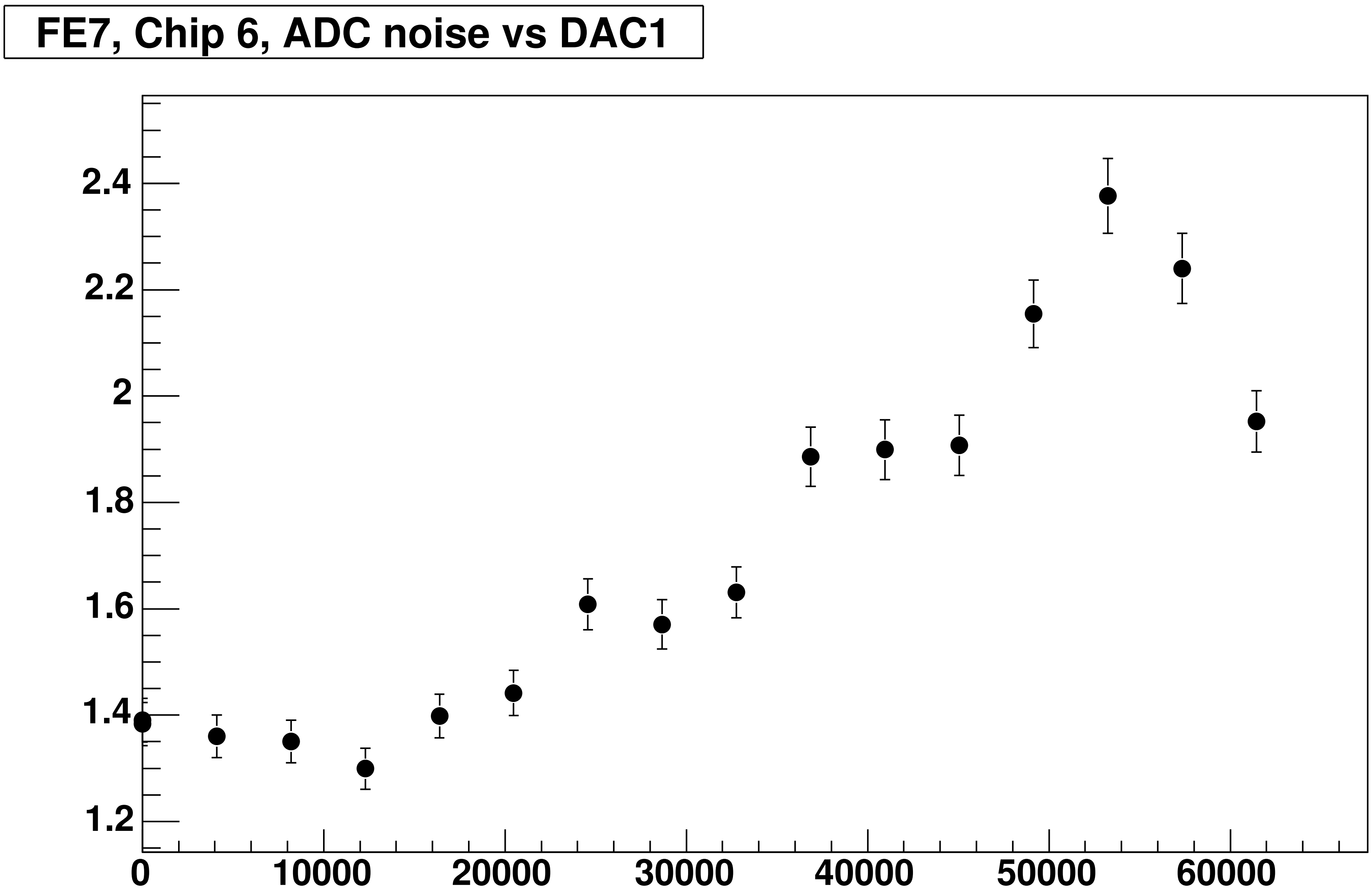

FE7, Chip 6, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



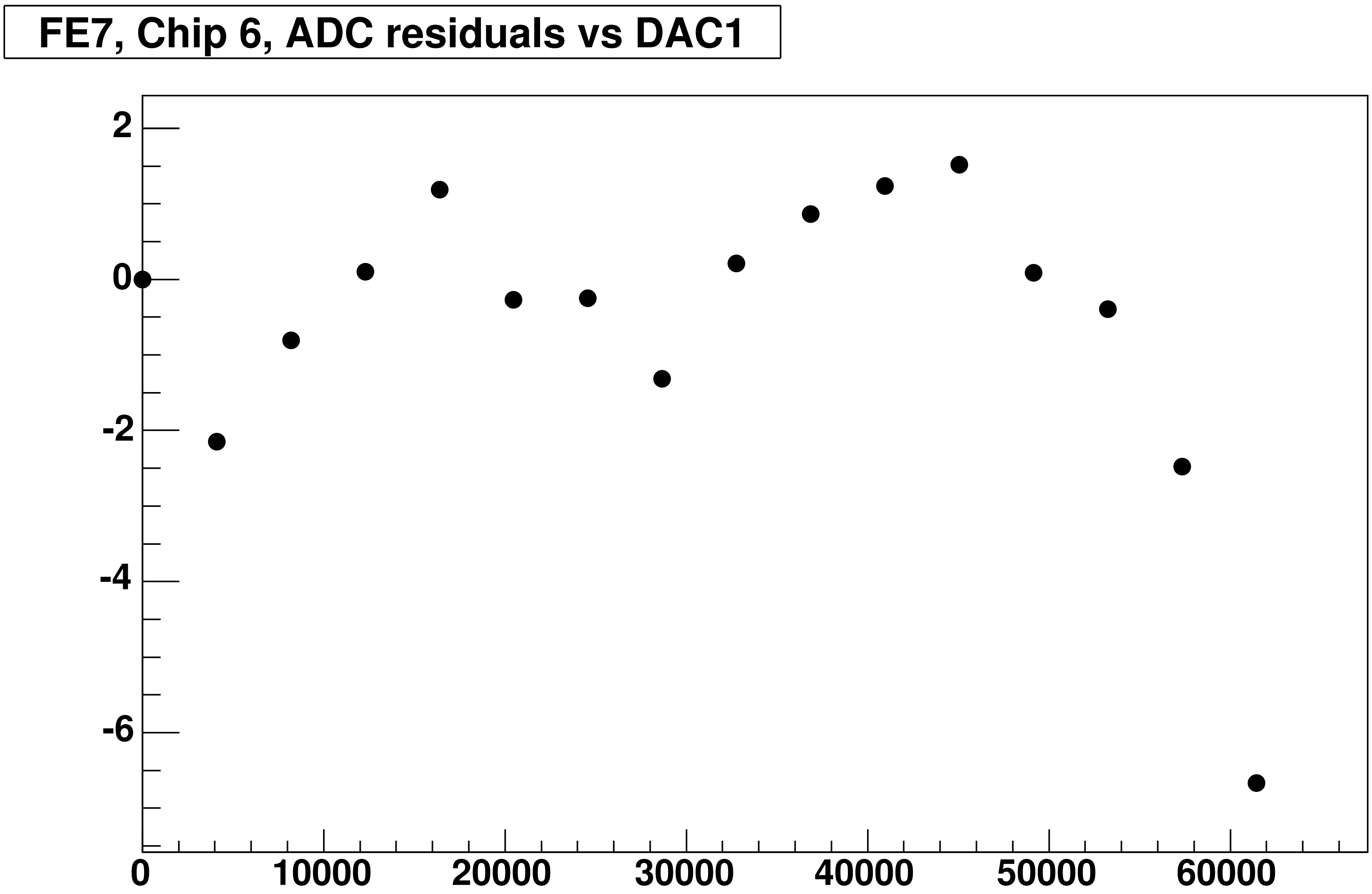
FE7, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

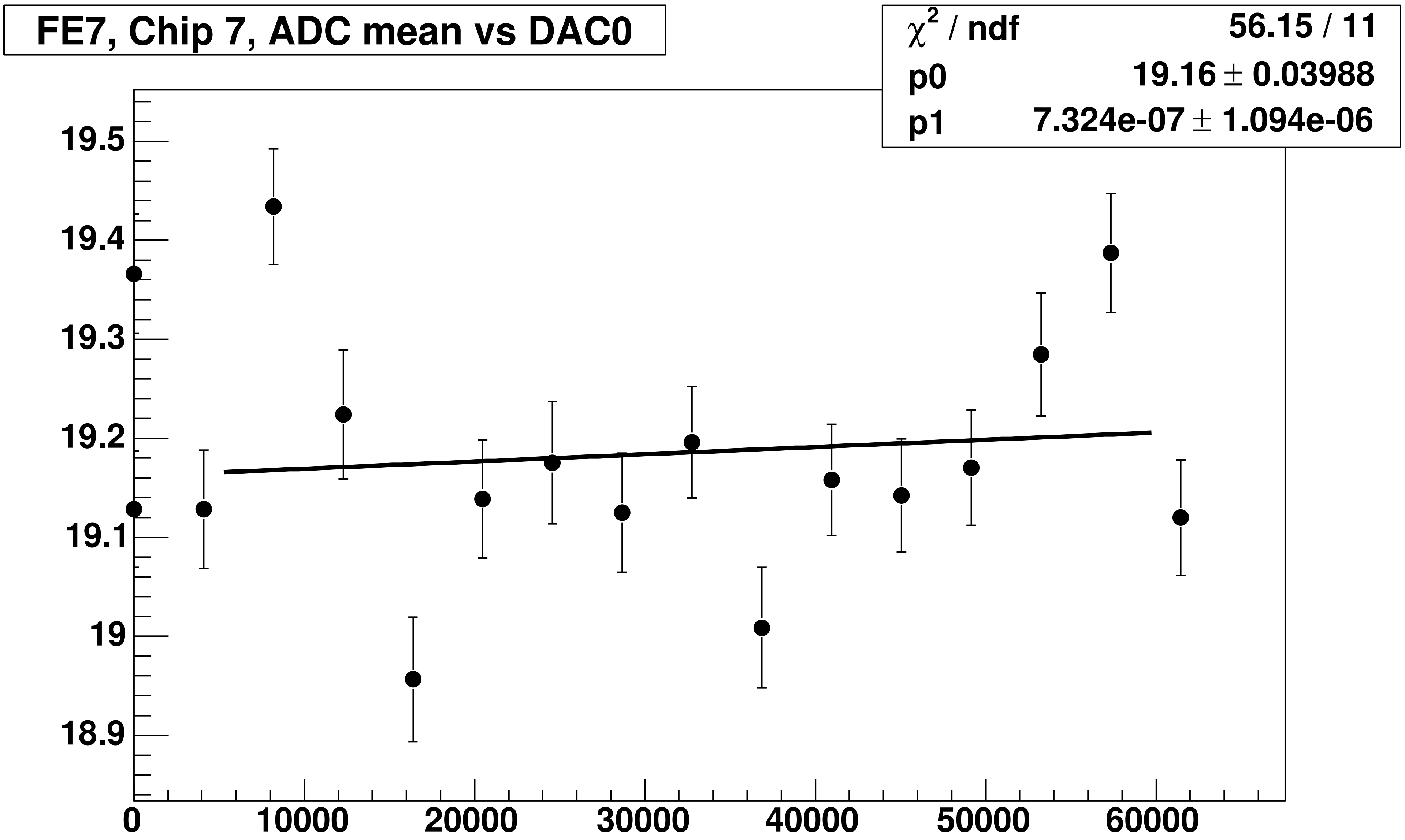


FE7, Chip 6, ADC mean vs DAC1
χ2 / ndf 2526 / 11
p0 16.89 ± 0.04078
p1 0.4521 ± 1.319e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

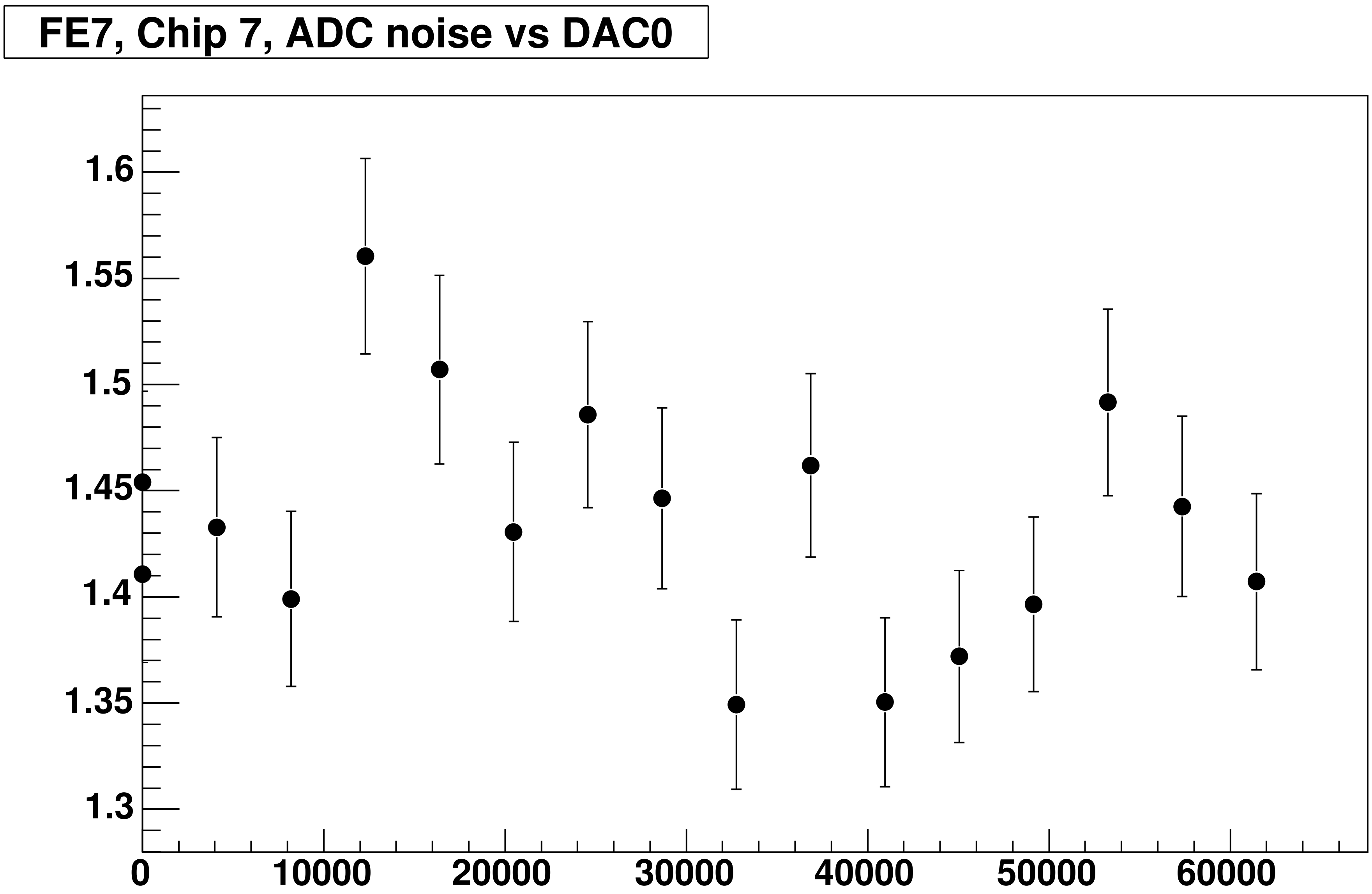


FE7, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

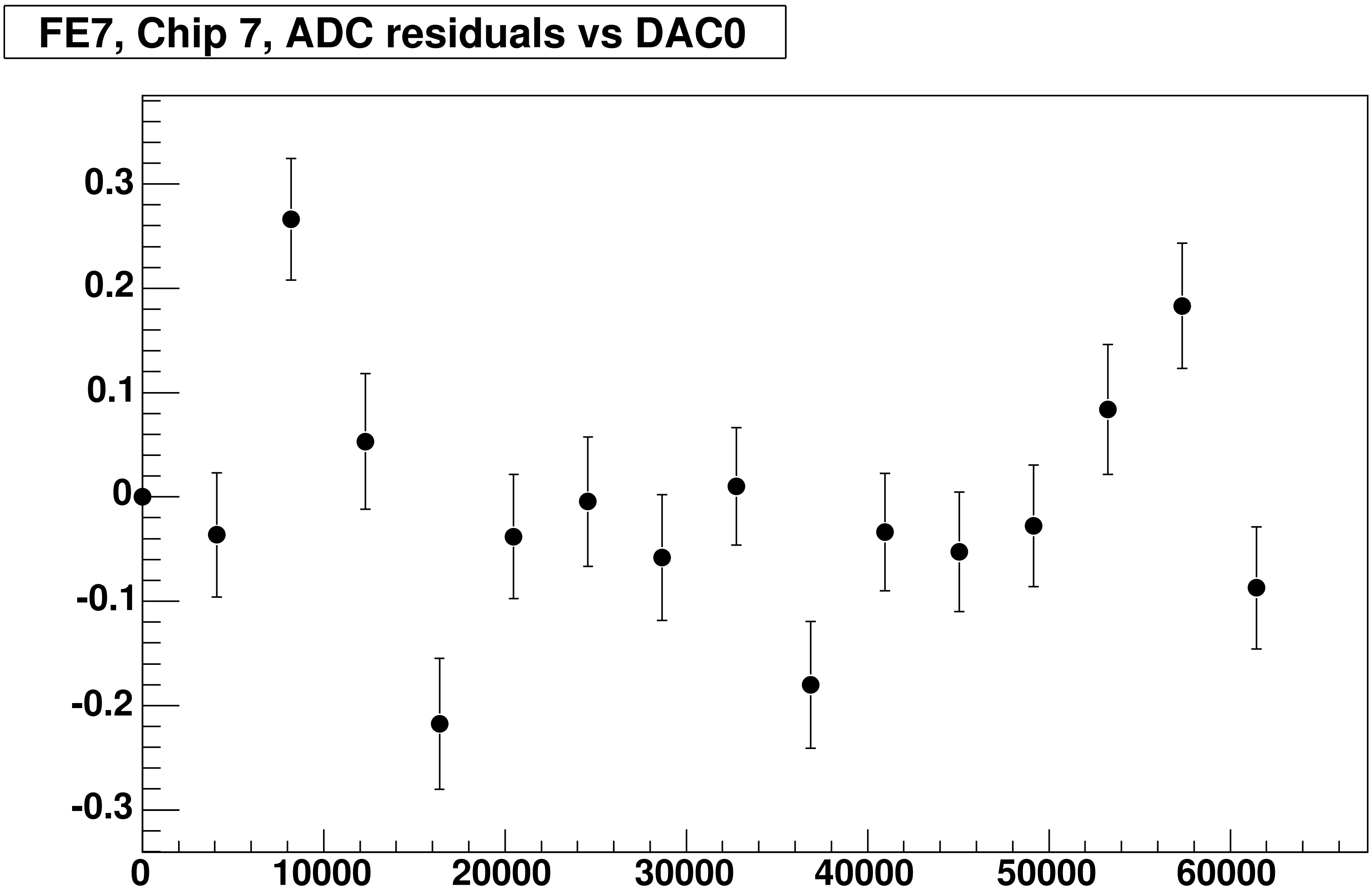

FE7, Chip 6, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

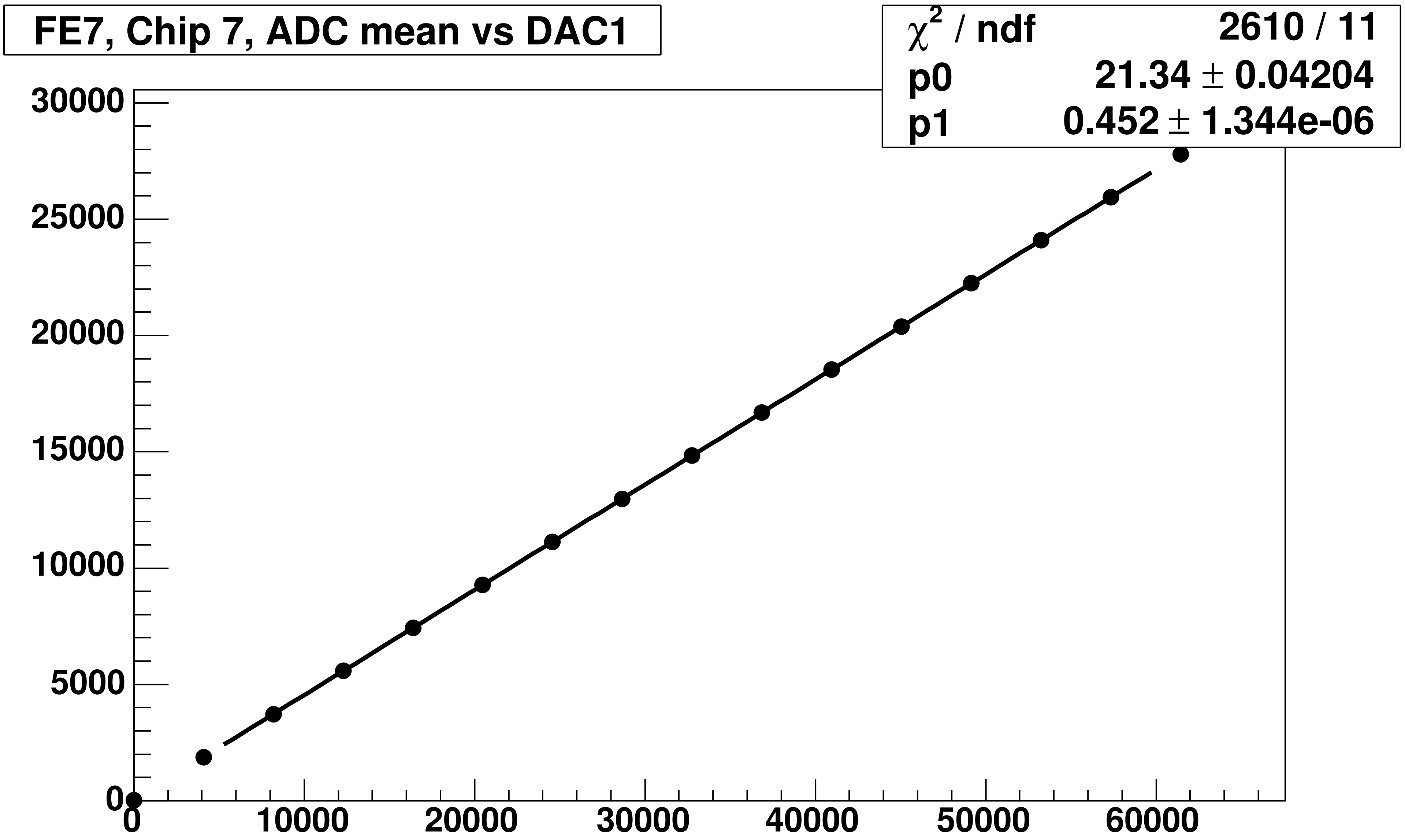


FE7, Chip 7, ADC mean vs DAC0
χ^2 / ndf 56.15 / 11
p0 19.16 ± 0.03988
p1 7.324e-07 ± 1.094e-06
19.5
19.4
19.3
19.2
19.1
19
18.9
0
10000
20000
30000
40000
50000
60000

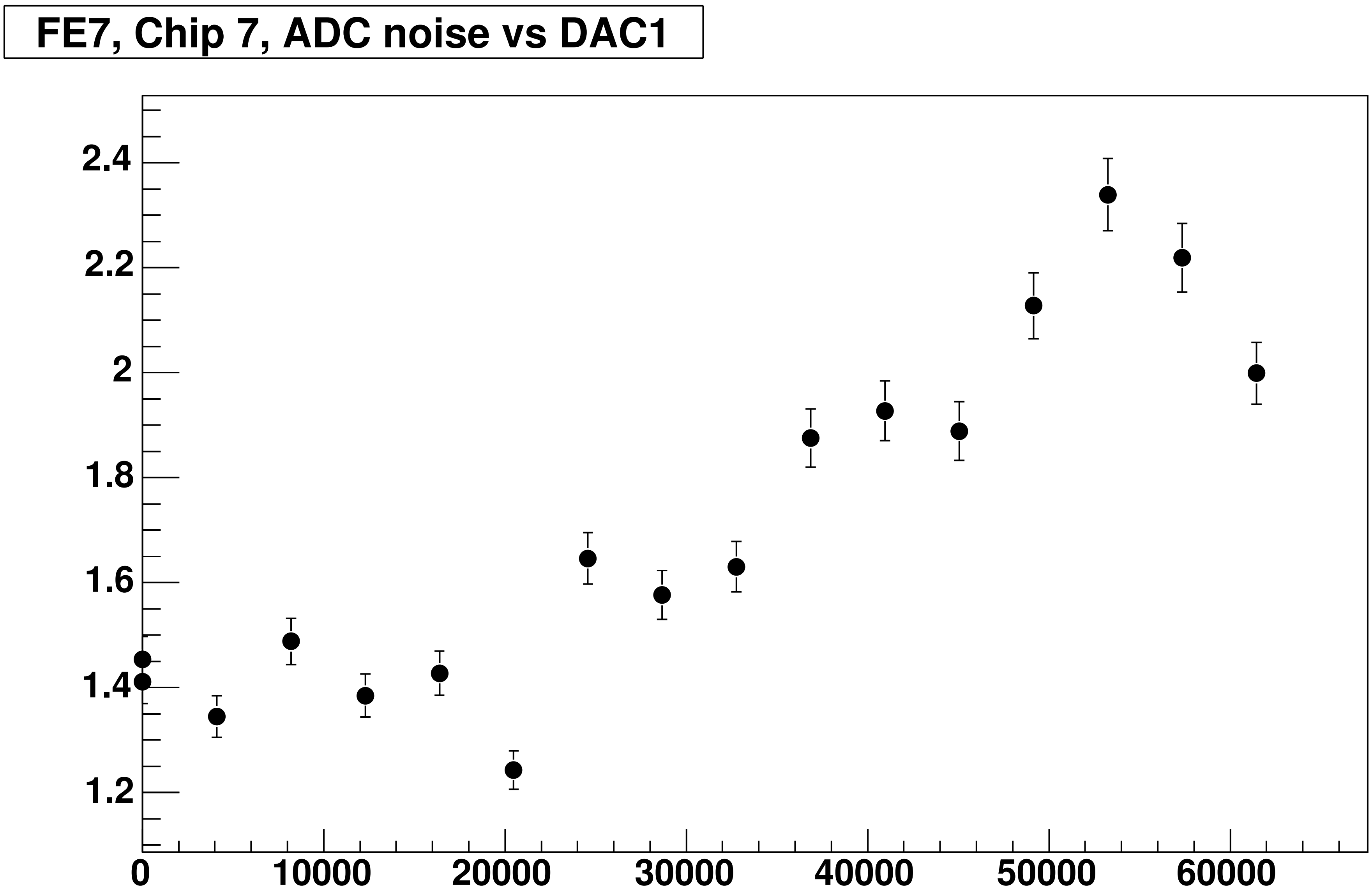


FE7, Chip 7, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

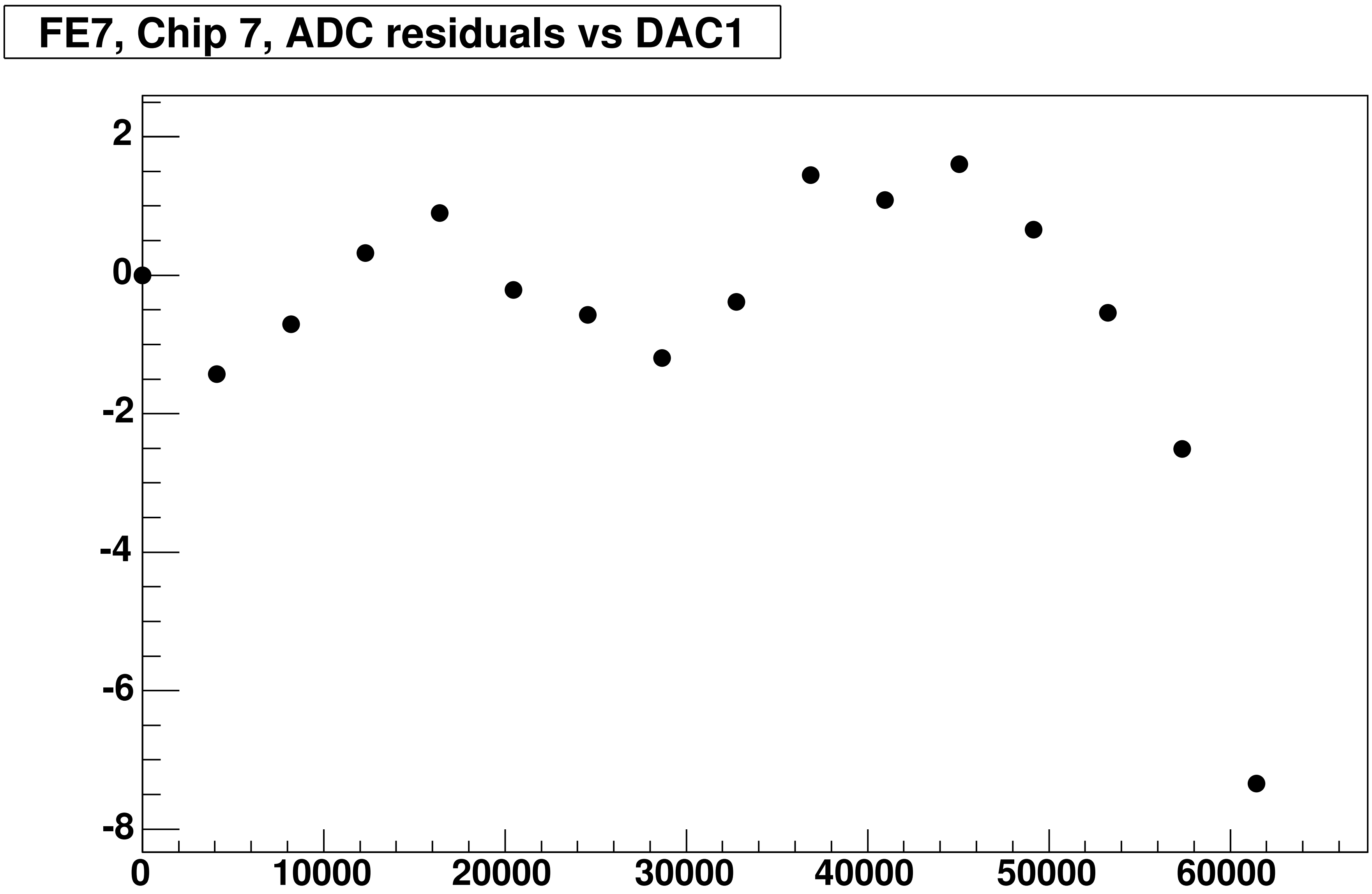

FE7, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

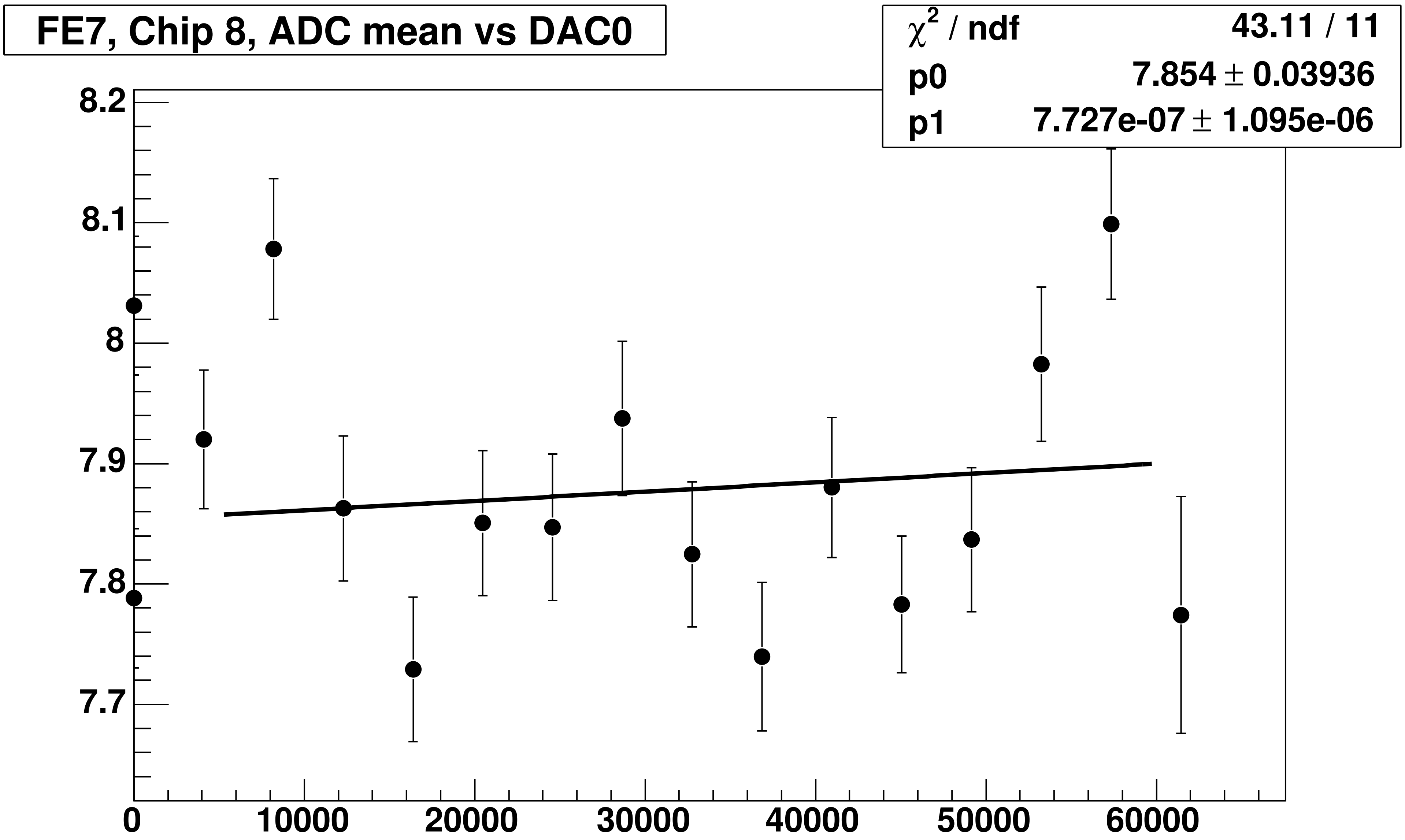


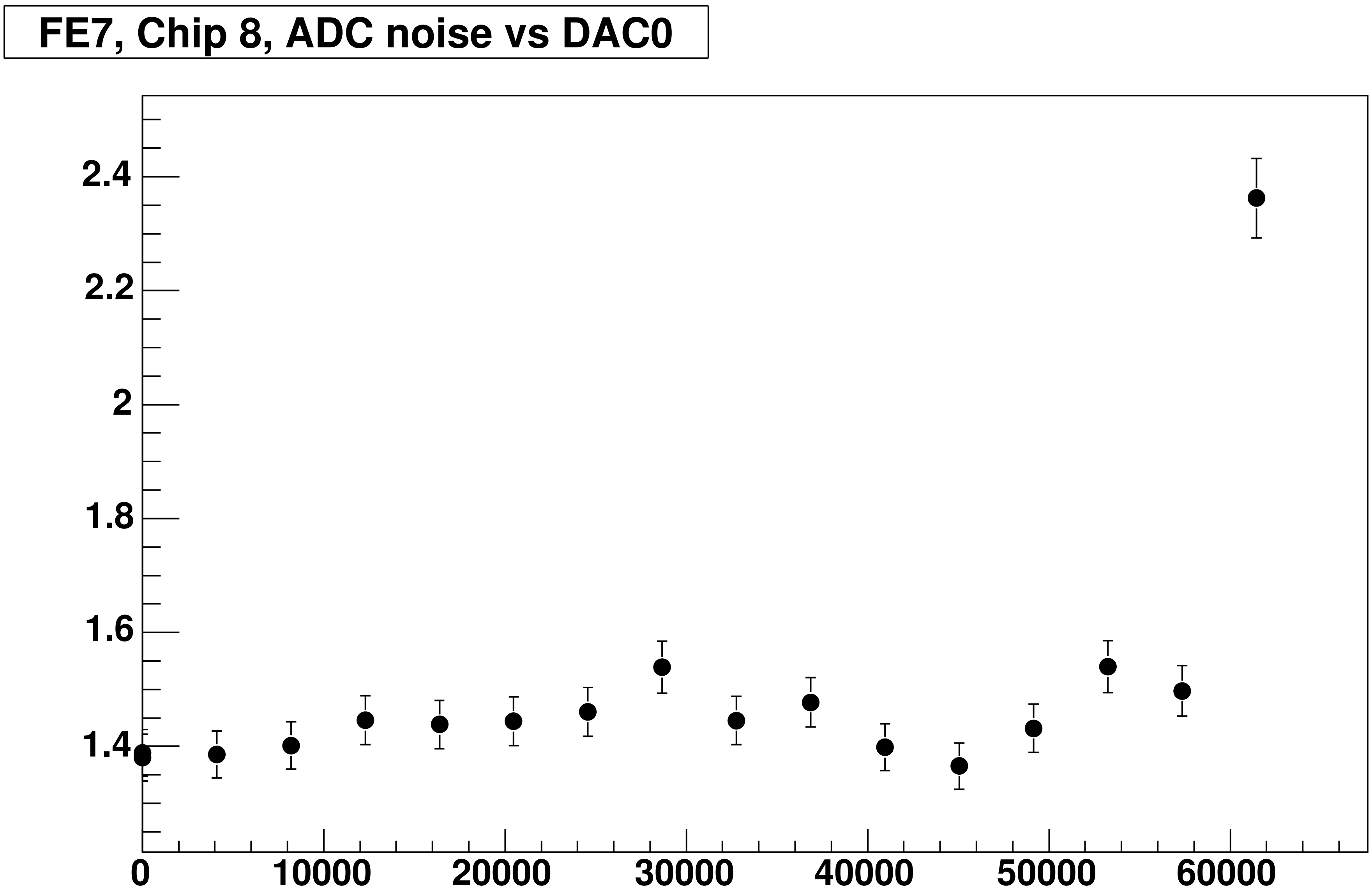
FE7, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2610 / 11
p0 21.34 ± 0.04204
p1 0.452 ± 1.344e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

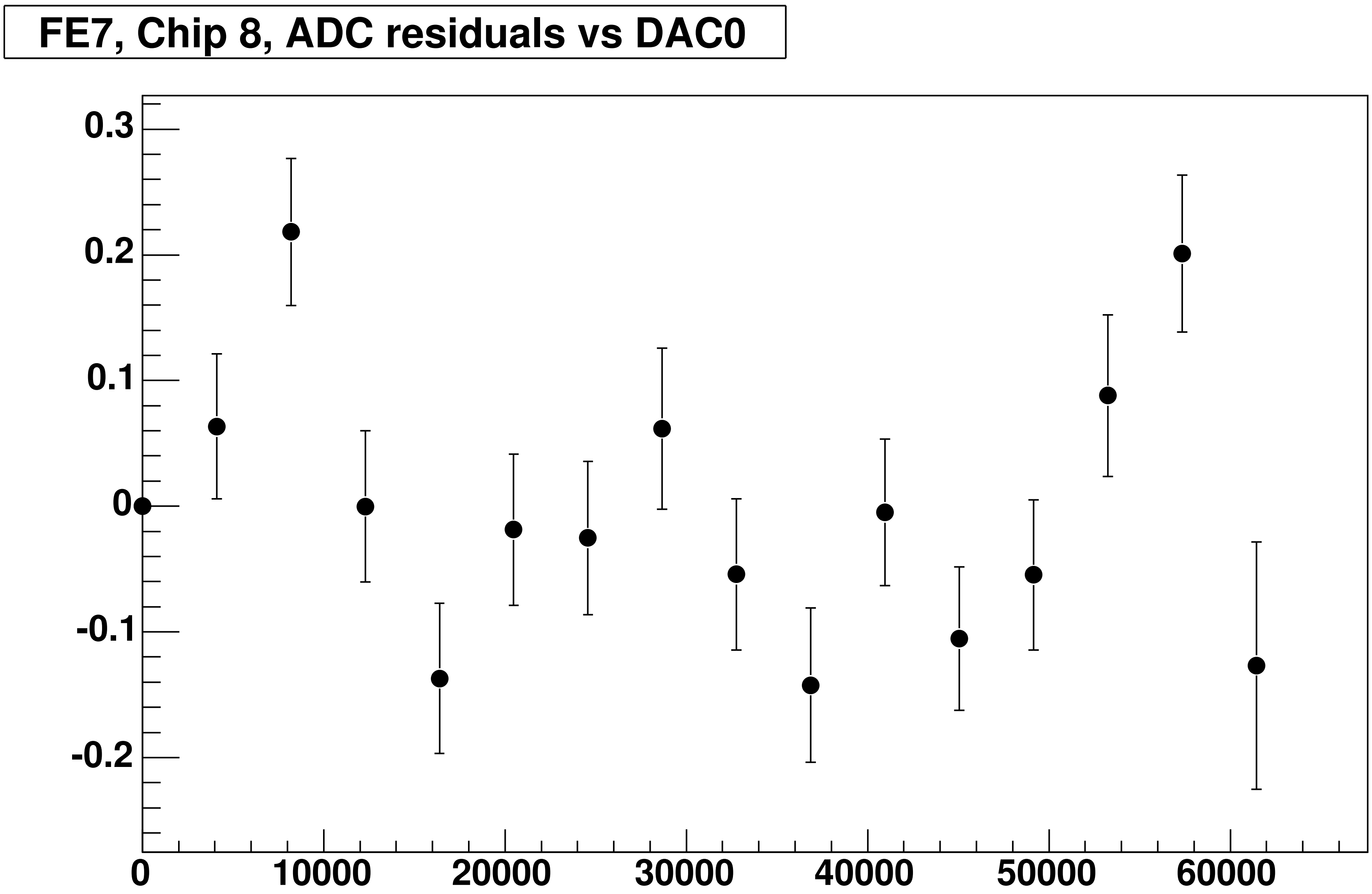


FE7, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

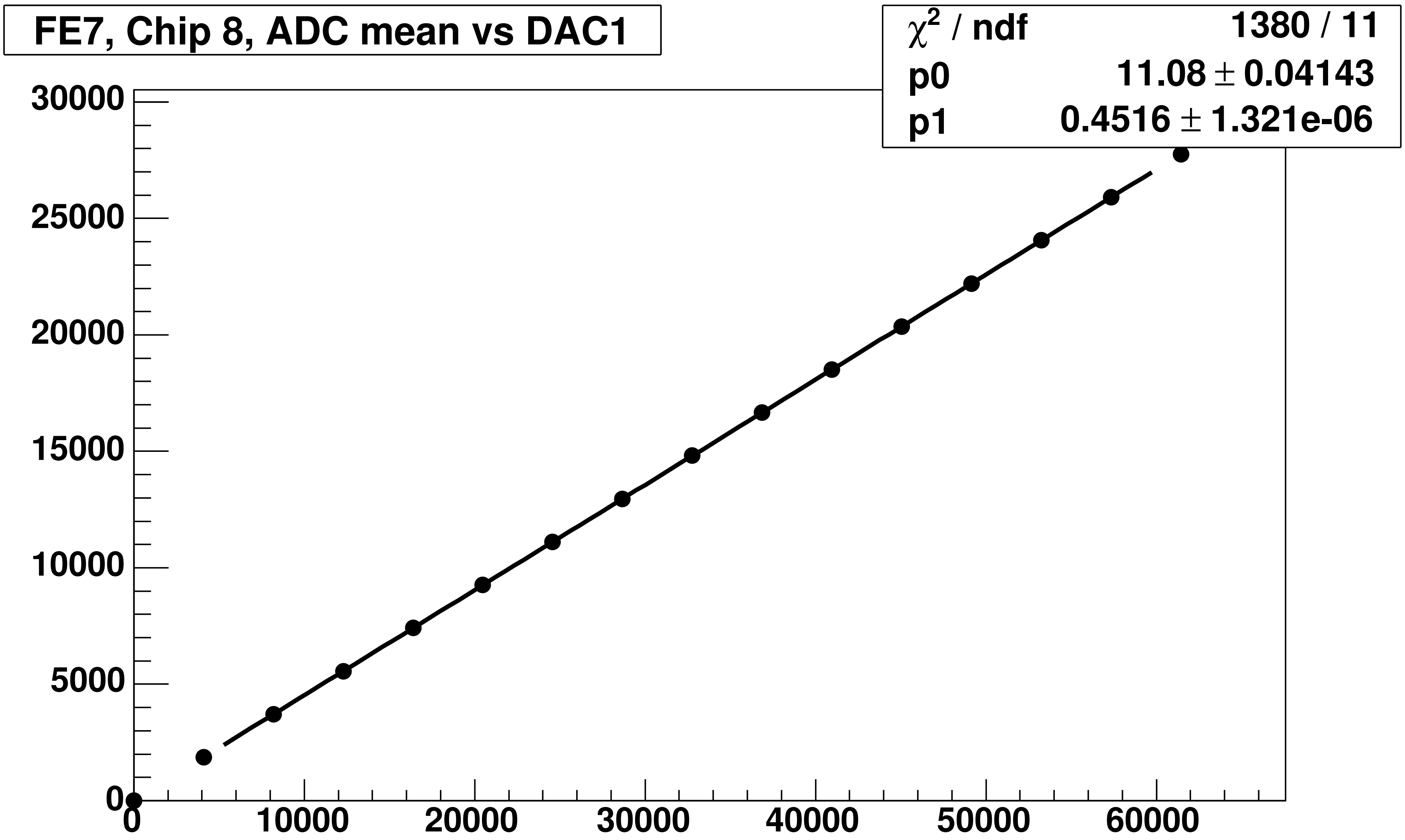

FE7, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000


FE7, Chip 8, ADC mean vs DAC0
χ^2 / ndf 43.11 / 11
p0 7.854 ± 0.03936
p1 7.727e-07 ± 1.095e-06
8.2
8.1
8
7.9
7.8
7.7
0
10000
20000
30000
40000
50000
60000

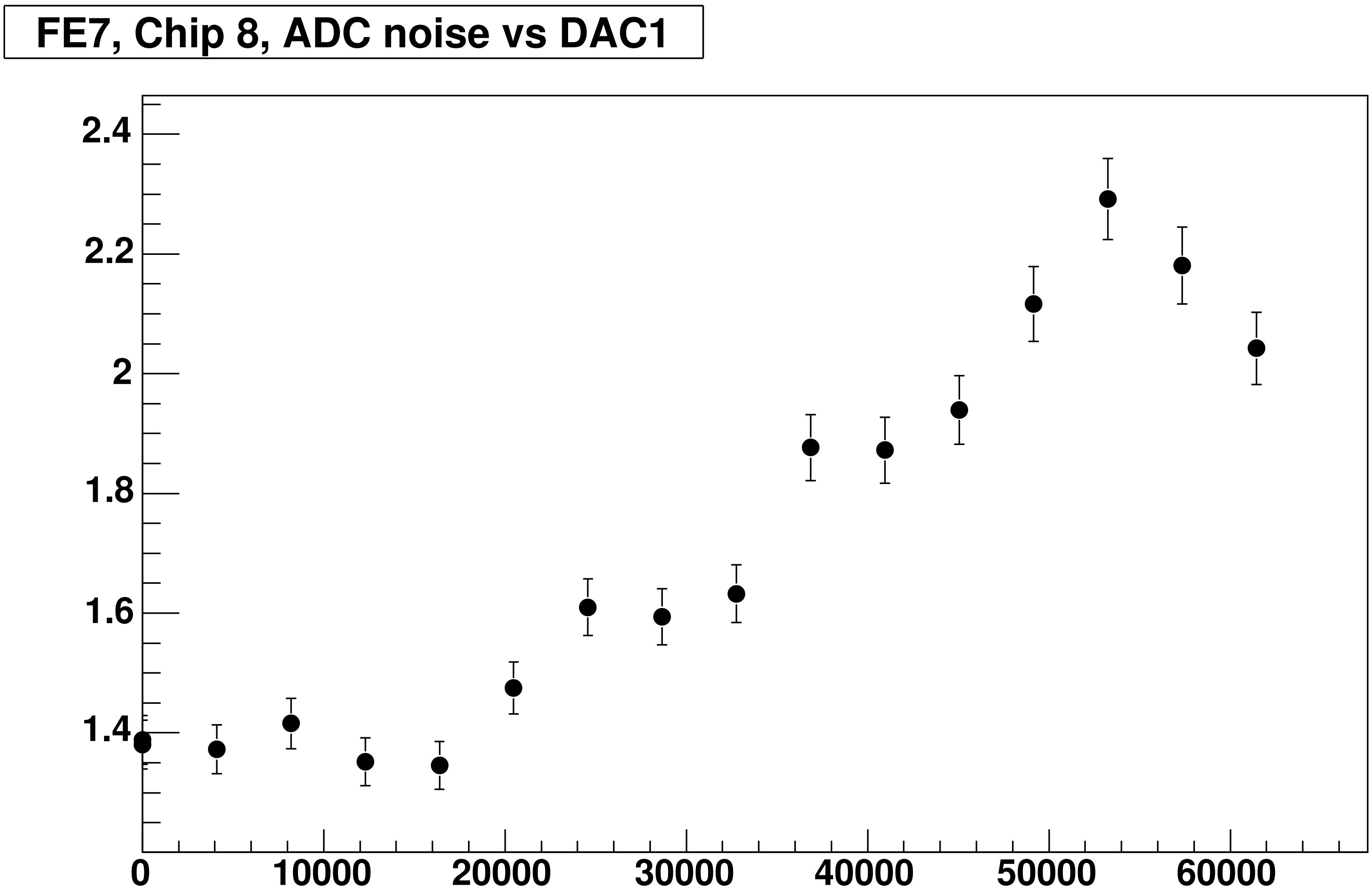

FE7, Chip 8, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



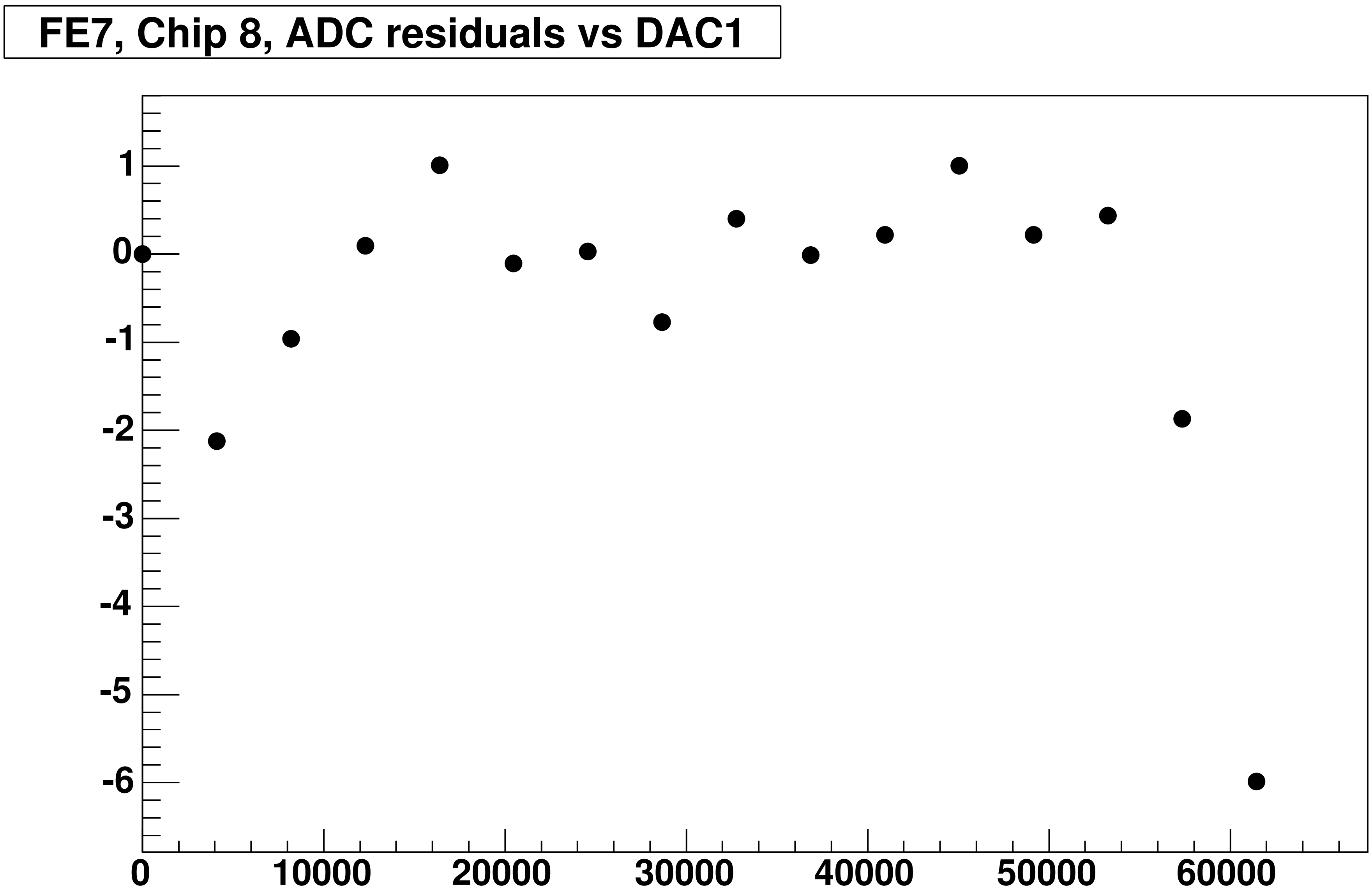
FE7, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



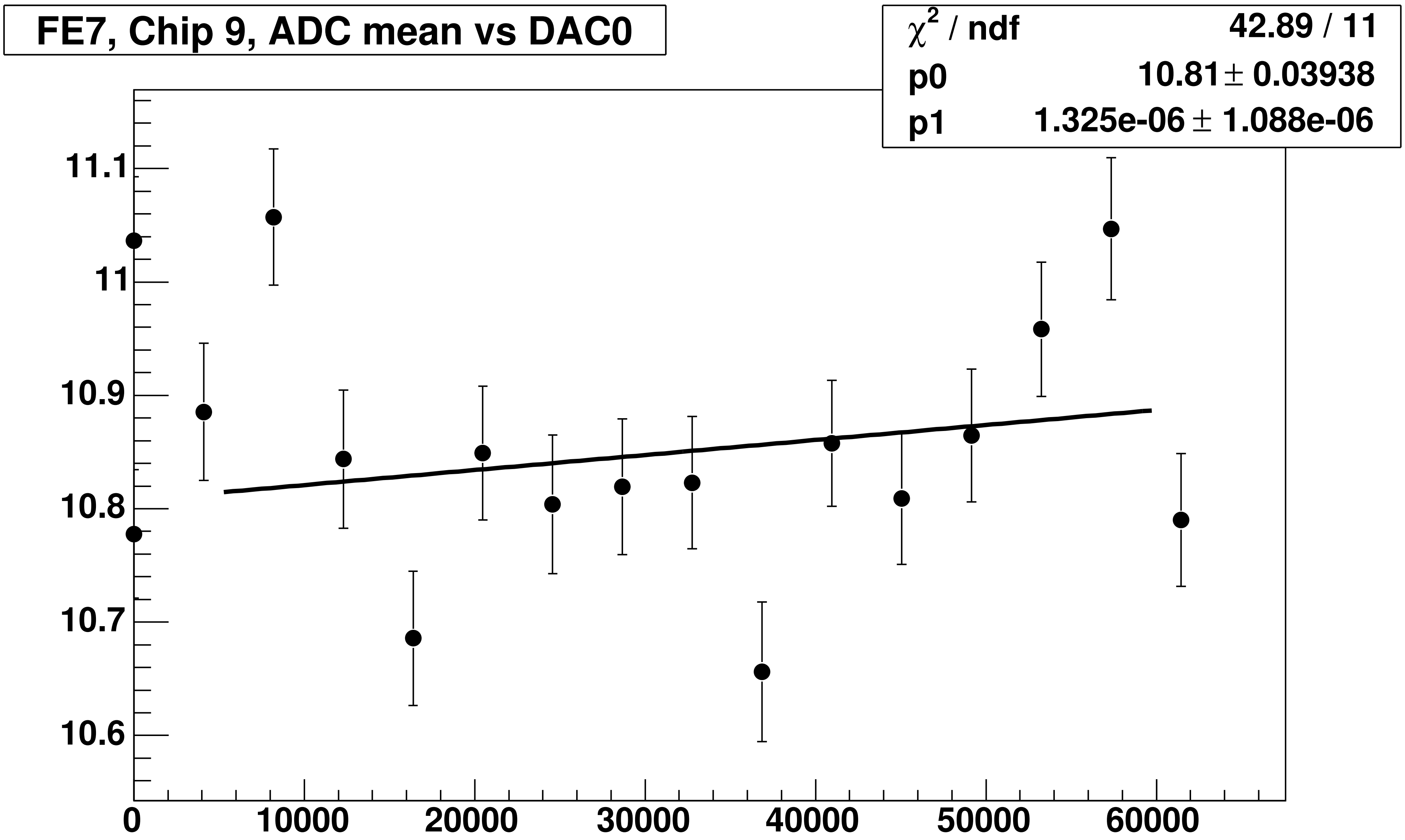
FE7, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1380 / 11
p0 11.08 ± 0.04143
p1 0.4516 ± 1.321e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

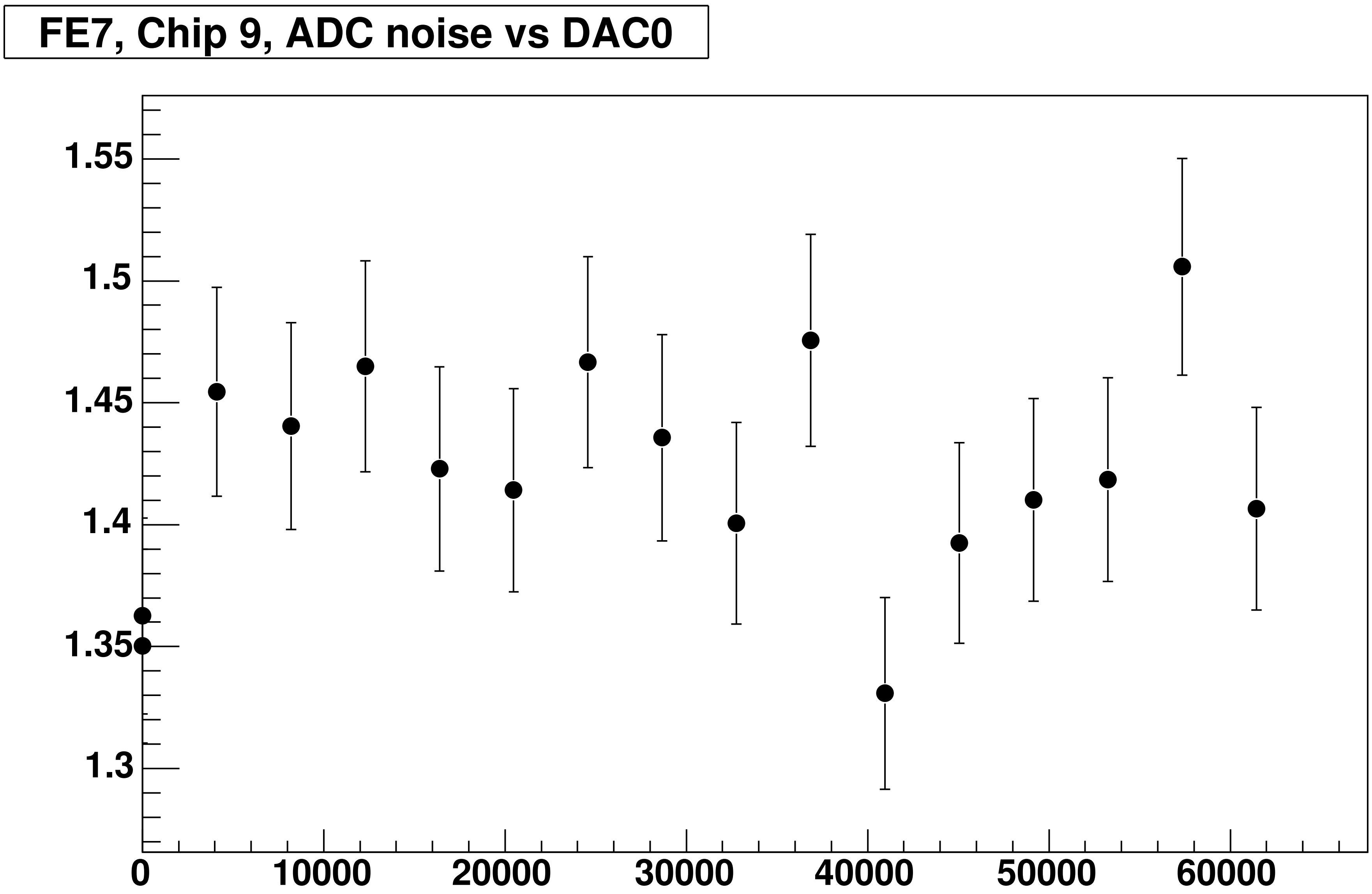


FE7, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

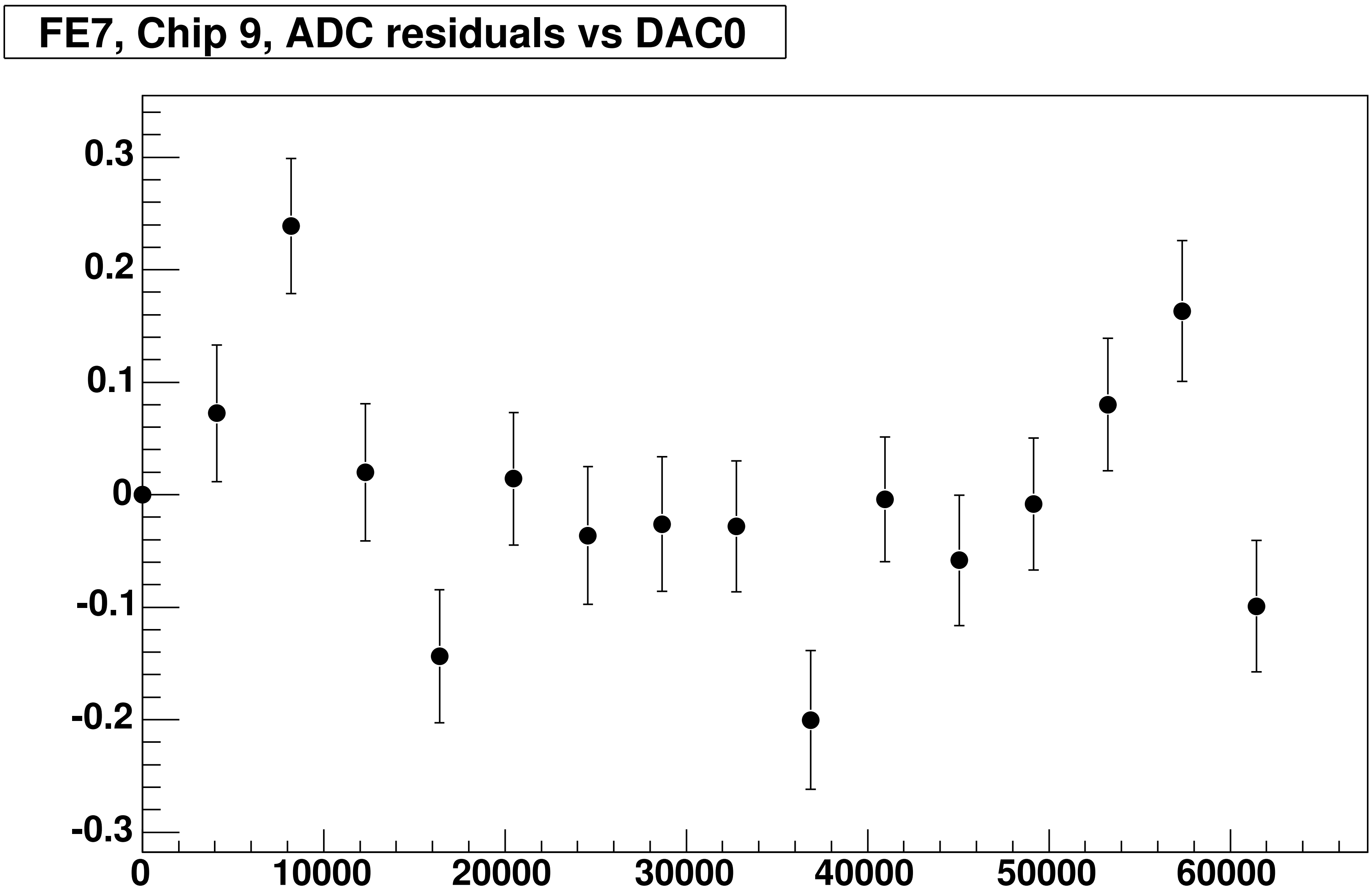


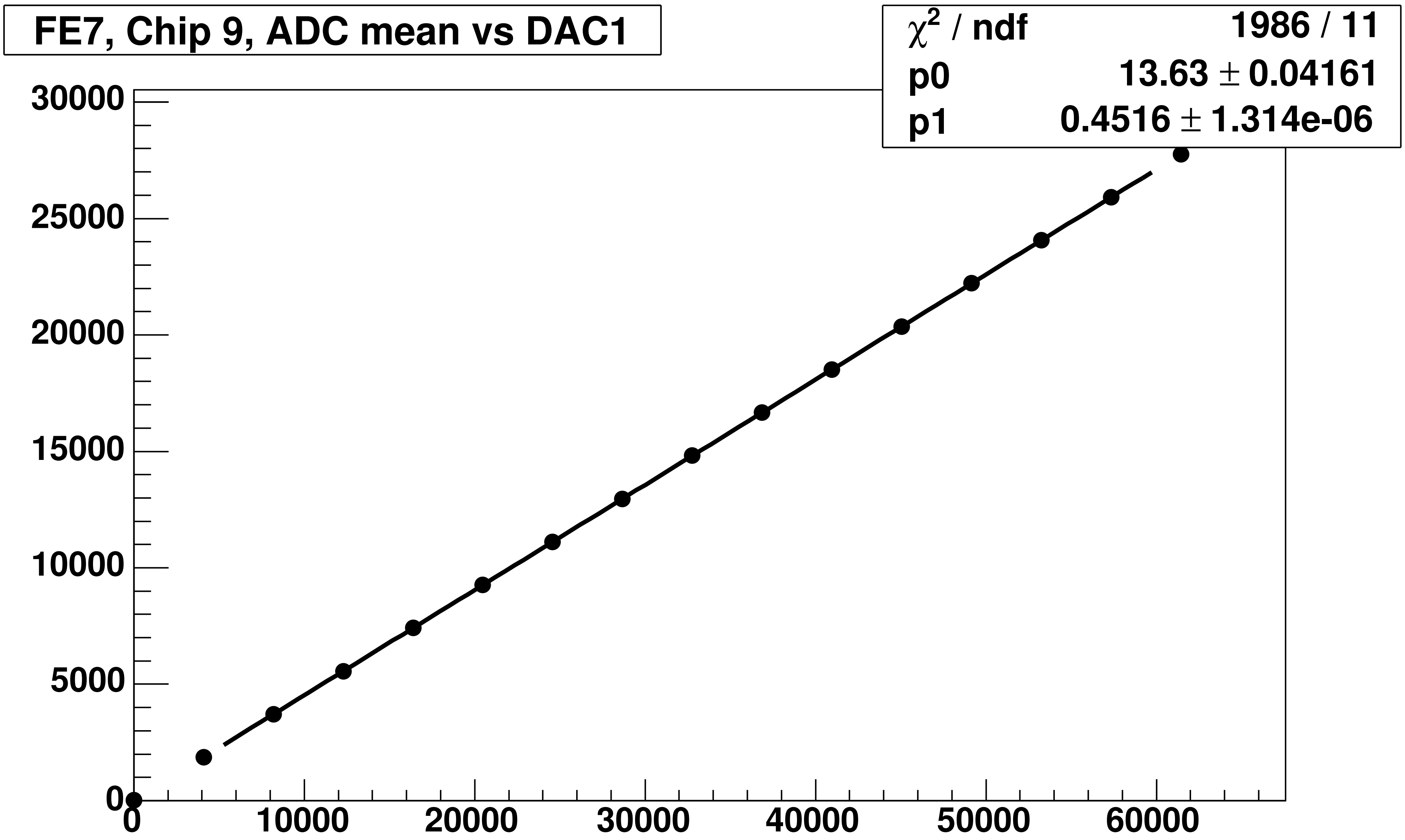
FE7, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE7, Chip 9, ADC mean vs DAC0
χ² / ndf 42.89 / 11
p0 10.81 ± 0.03938
p1 1.325e-06 ± 1.088e-06
11.1
11
10.9
10.8
10.7
10.6
0
10000
20000
30000
40000
50000
60000

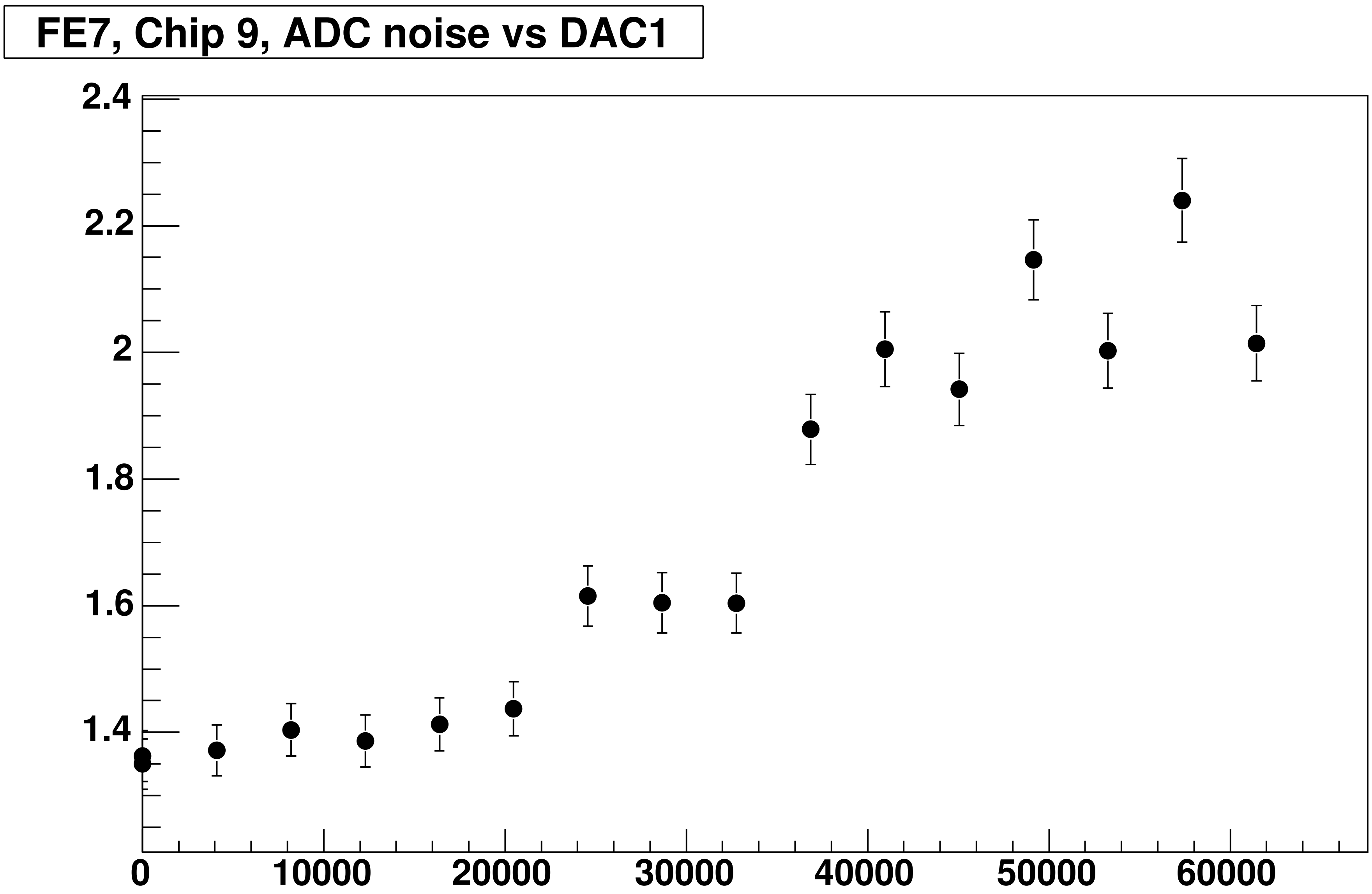


FE7, Chip 9, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

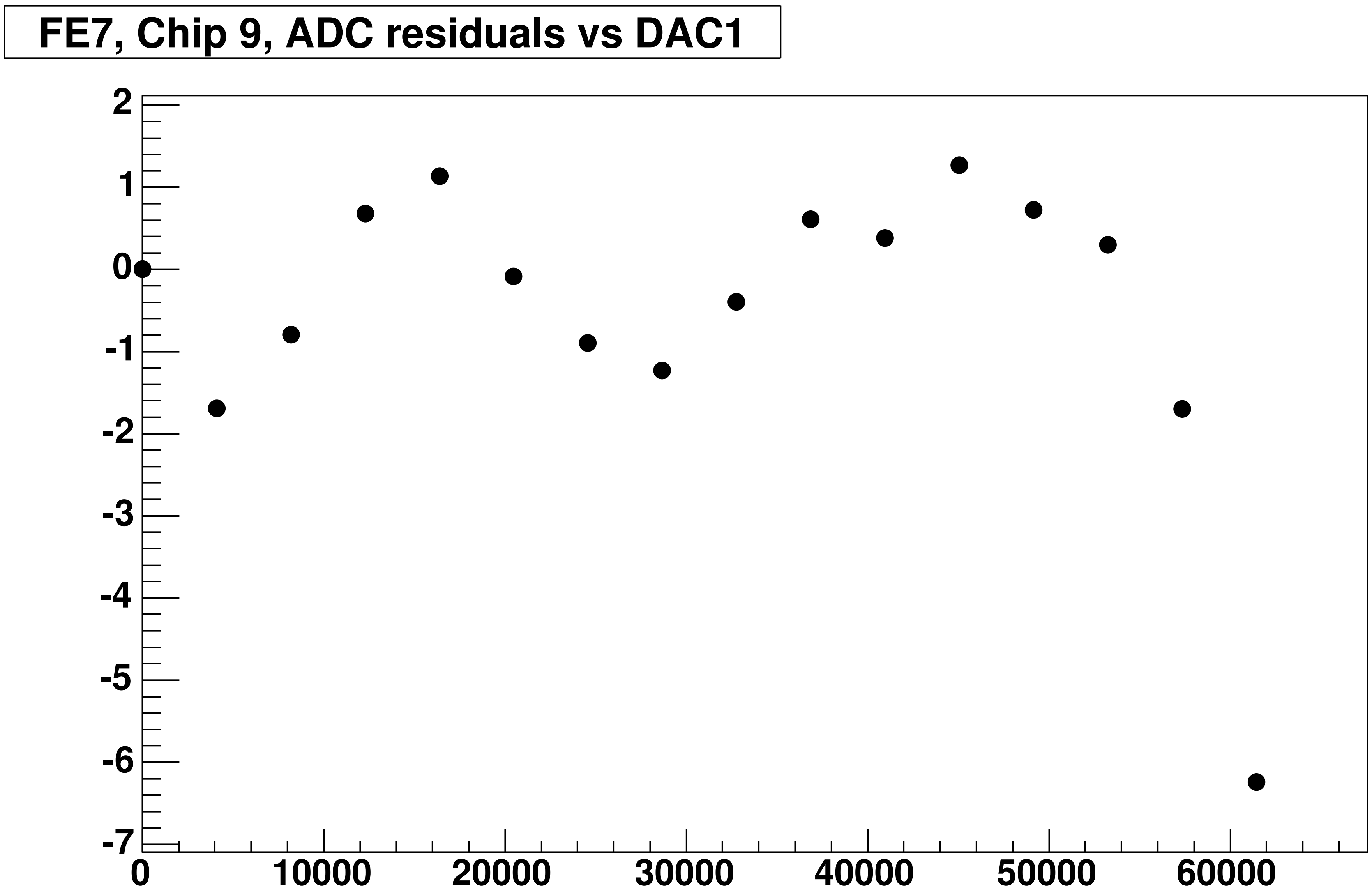

FE7, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



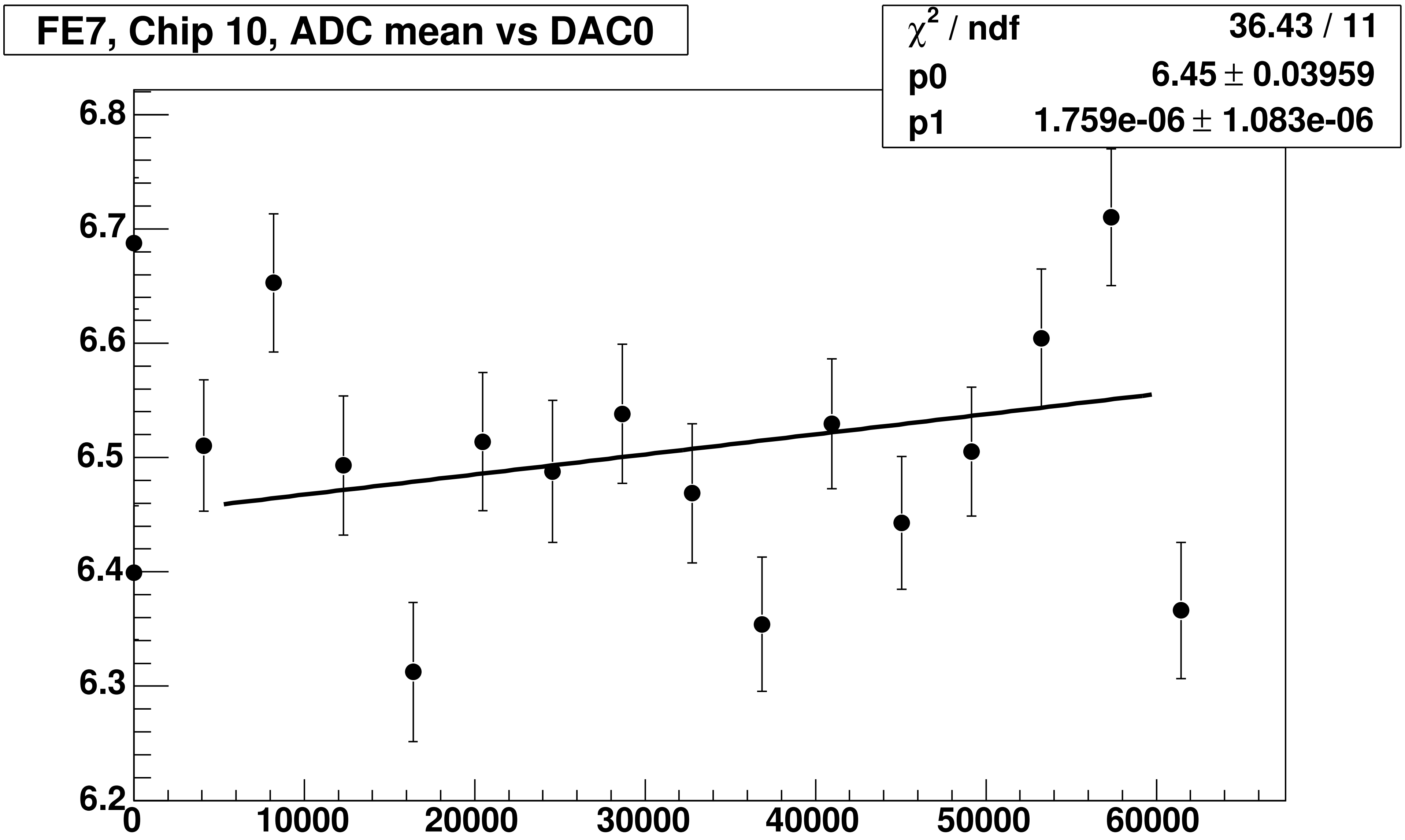
FE7, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1986 / 11
p0 13.63 ± 0.04161
p1 0.4516 ± 1.314e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000



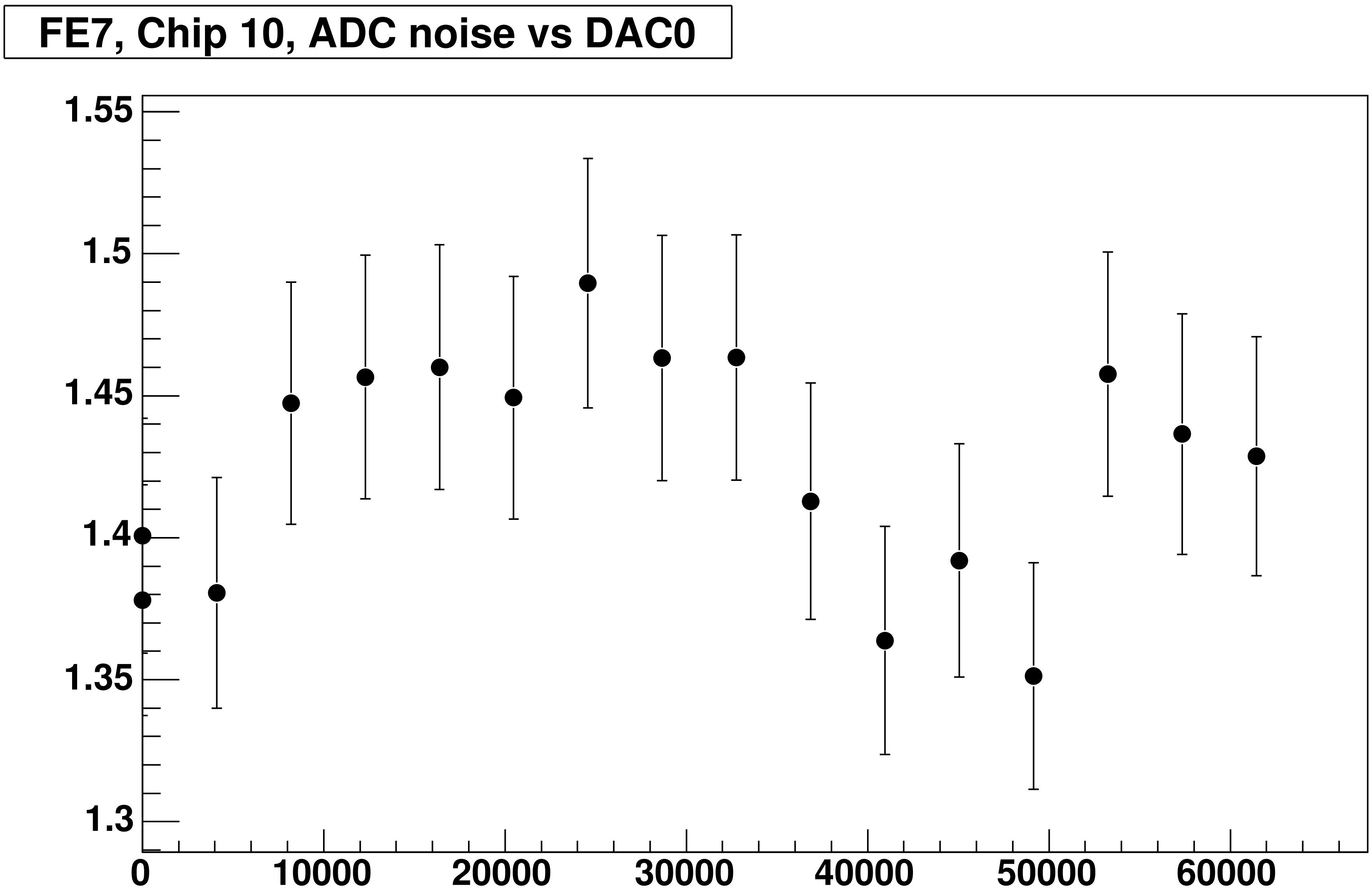
FE7, Chip 9, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



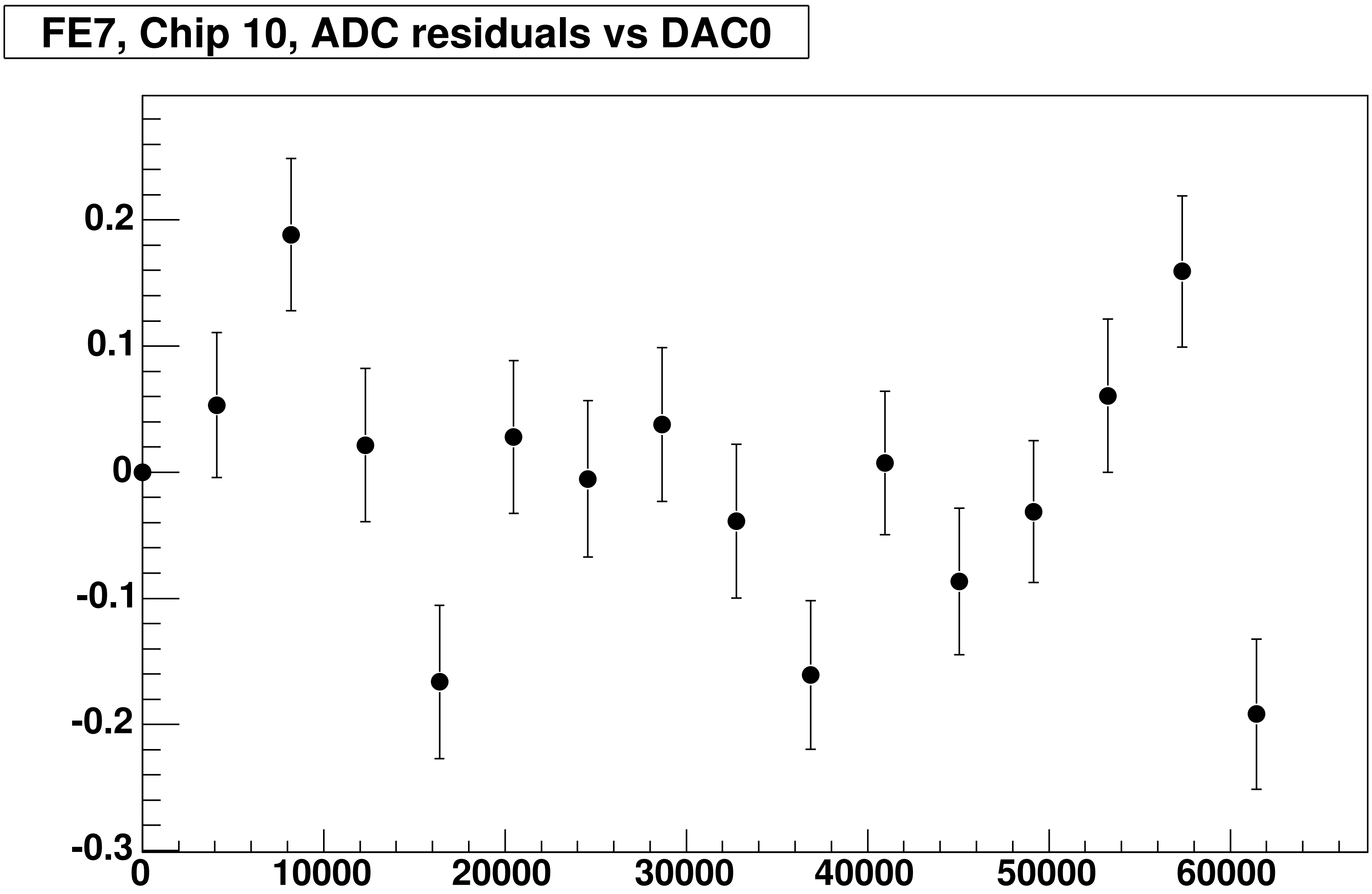
FE7, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000



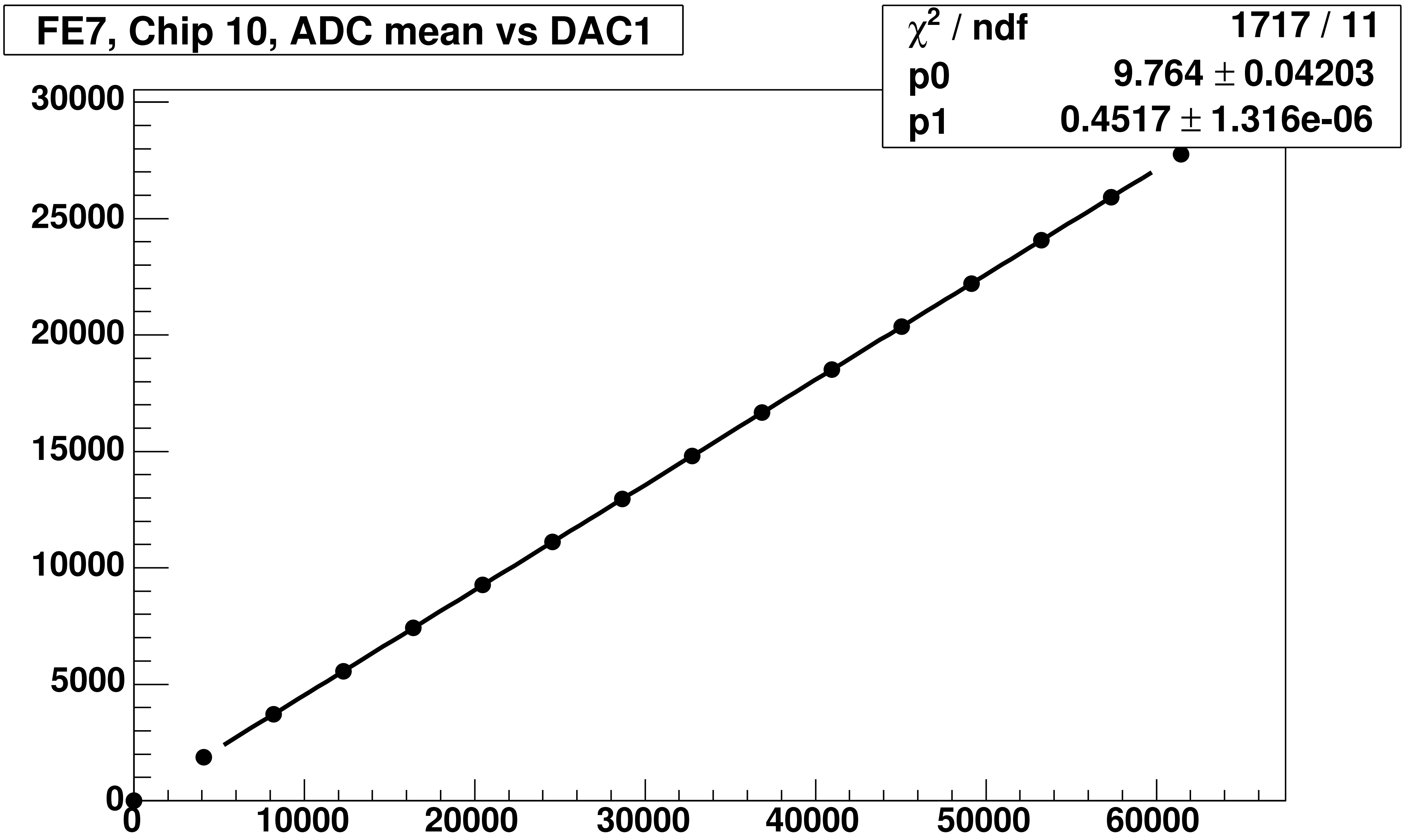
FE7, Chip 10, ADC mean vs DAC0
χ^2 / ndf 36.43 / 11
p0 6.45 ± 0.03959
p1 1.759e-06 ± 1.083e-06
6.2
6.3
6.4
6.5
6.6
6.7
6.8
0
10000
20000
30000
40000
50000
60000

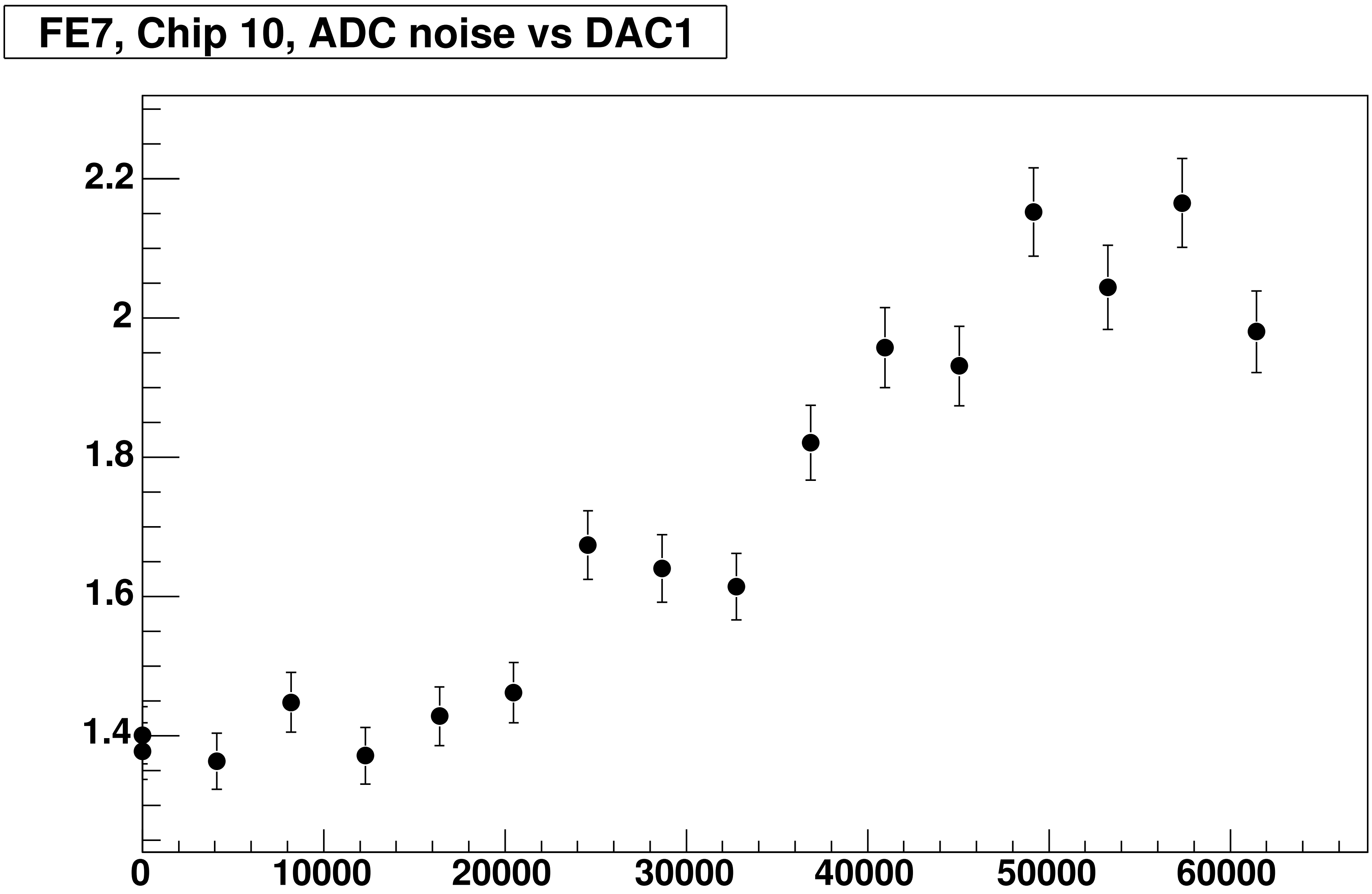


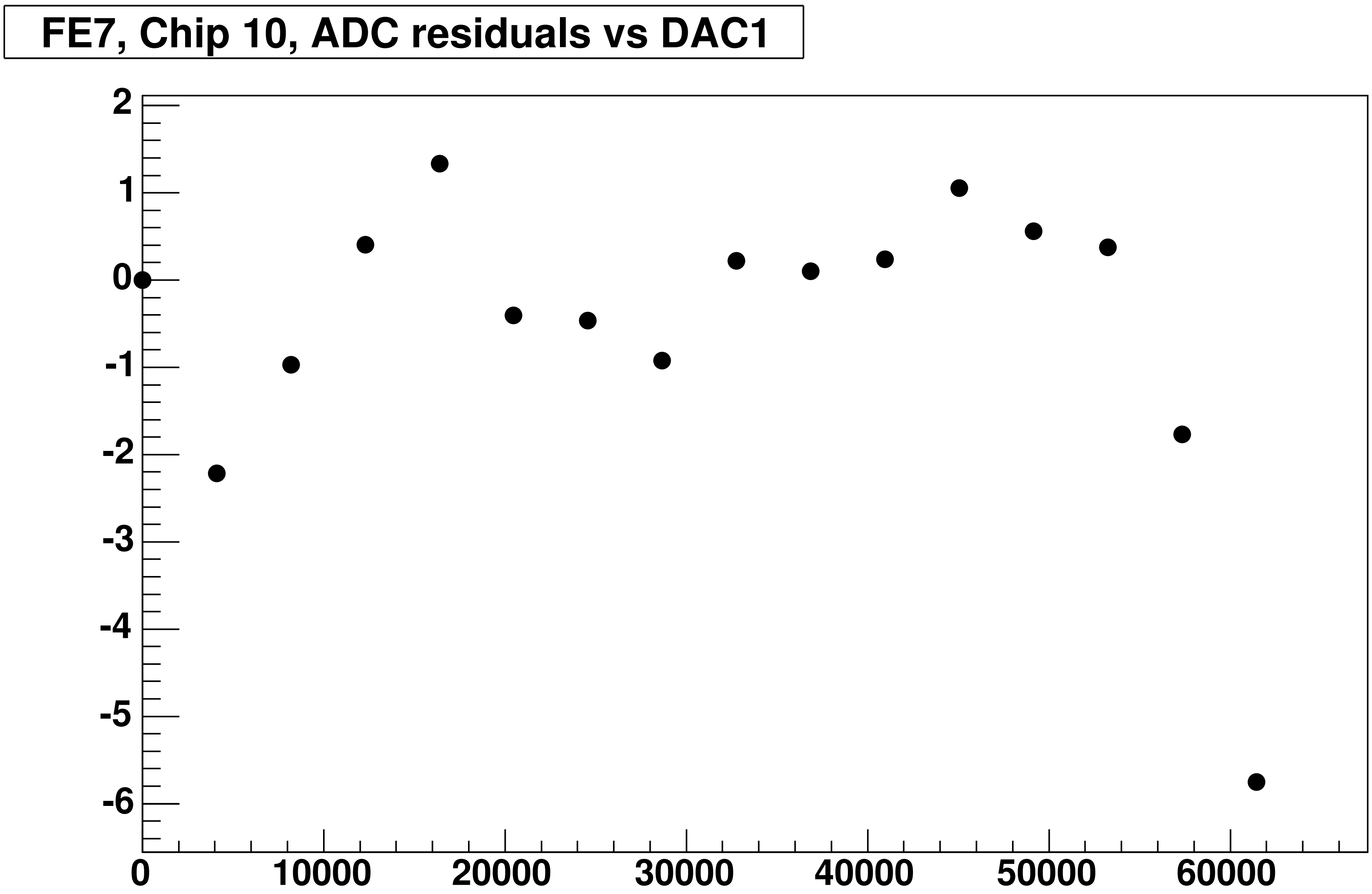
FE7, Chip 10, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

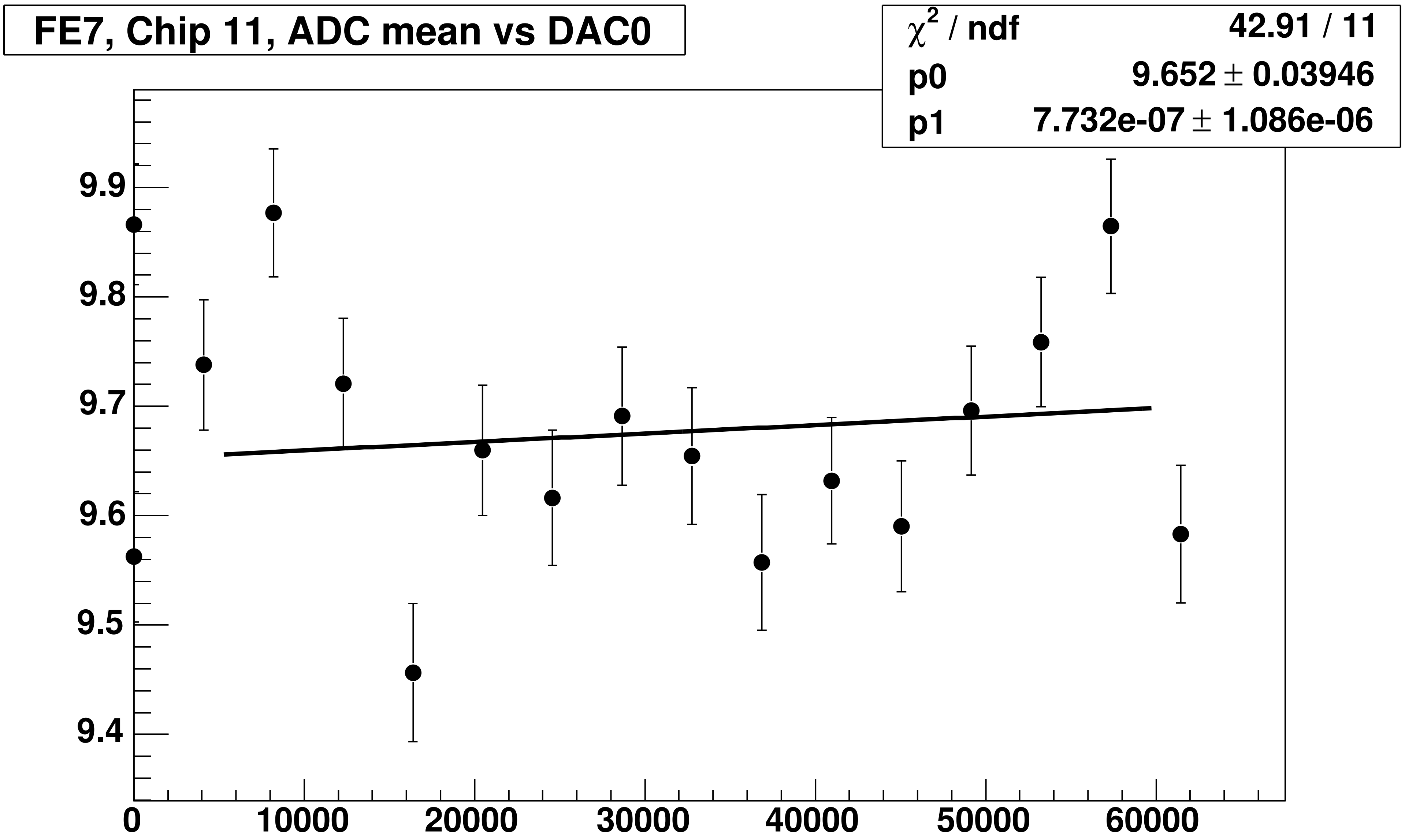


FE7, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

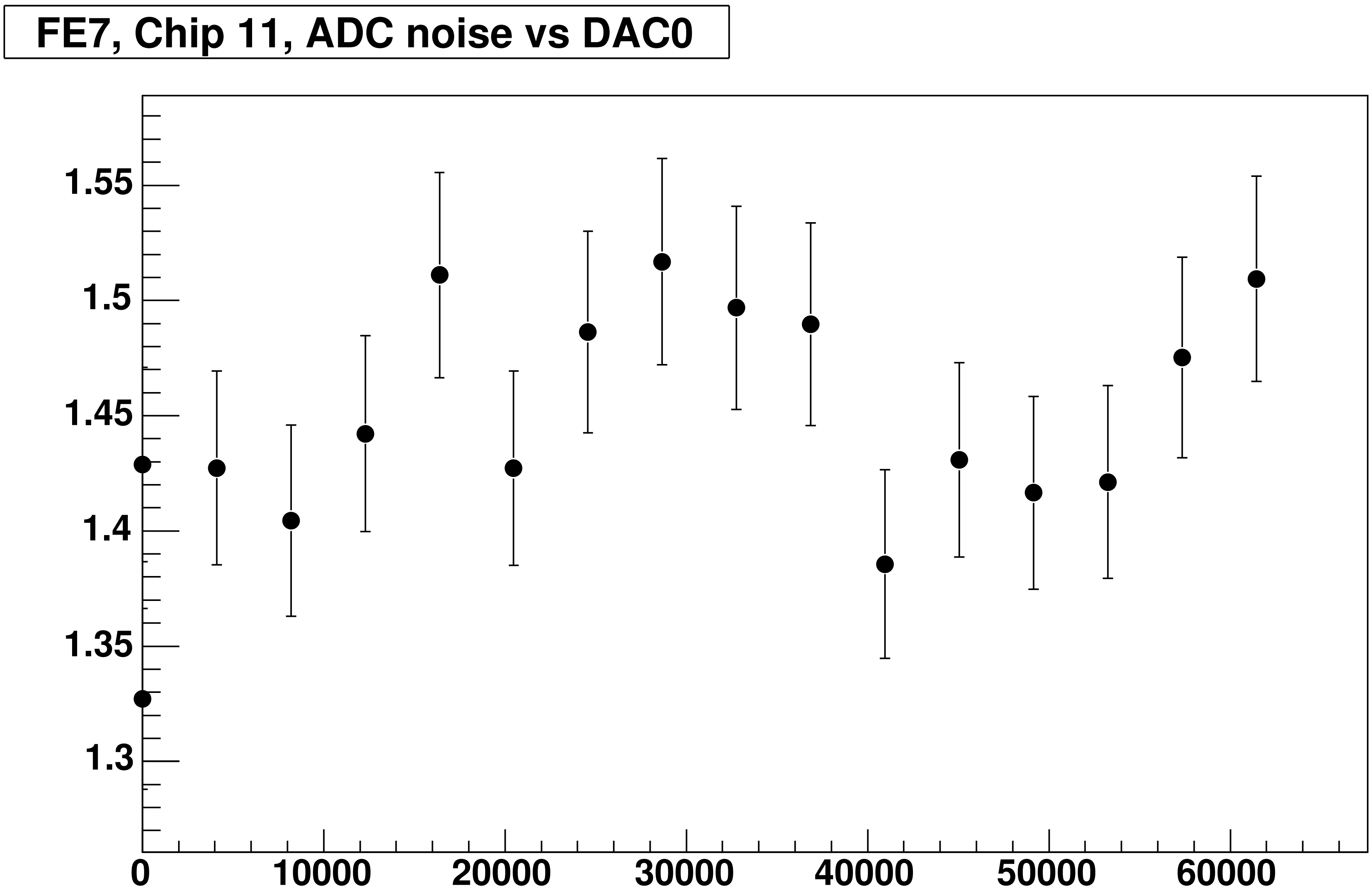

FE7, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1717 / 11
p0 9.764 ± 0.04203
p1 0.4517 ± 1.316e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

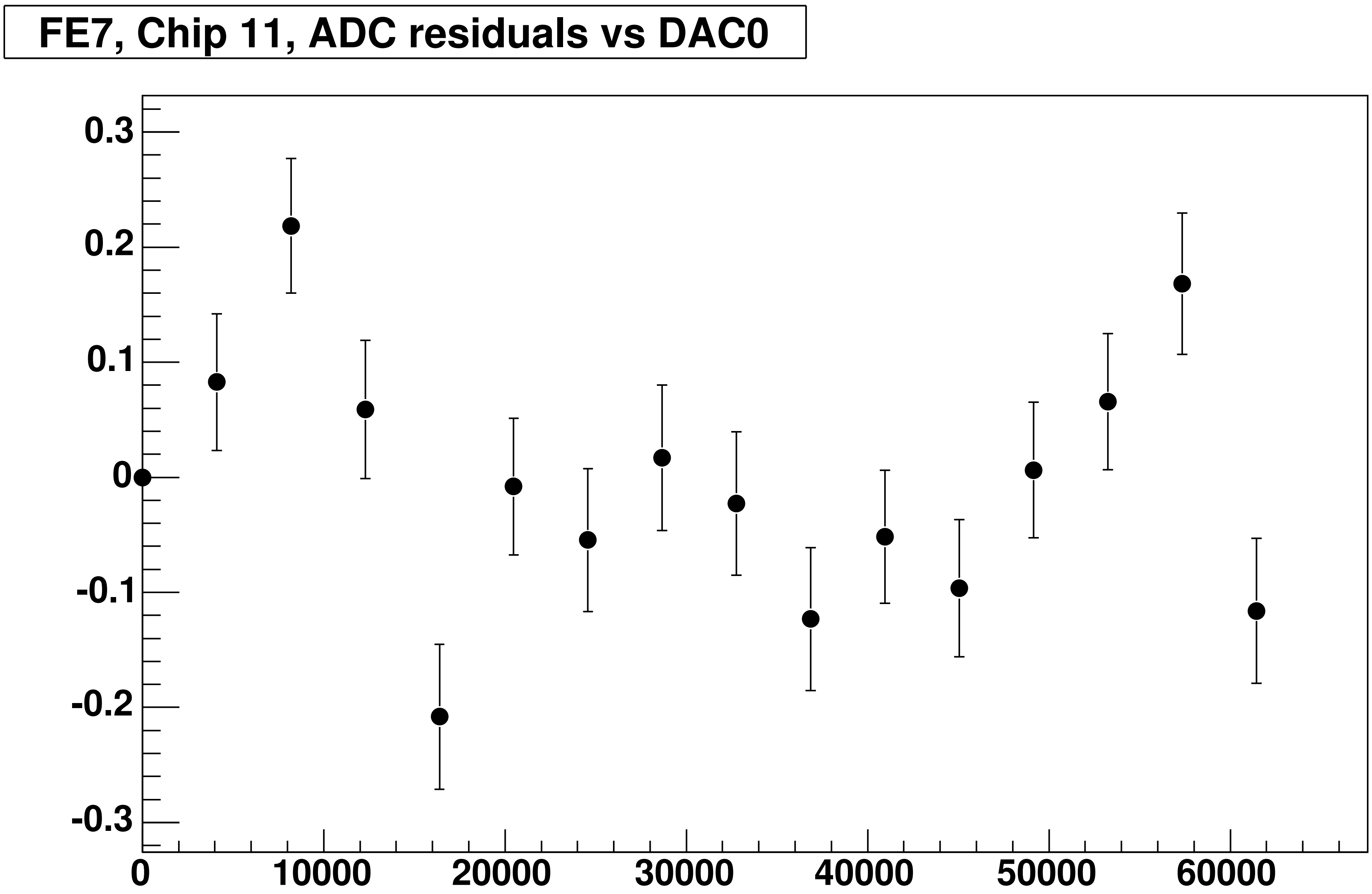

FE7, Chip 10, ADC noise vs DAC1
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

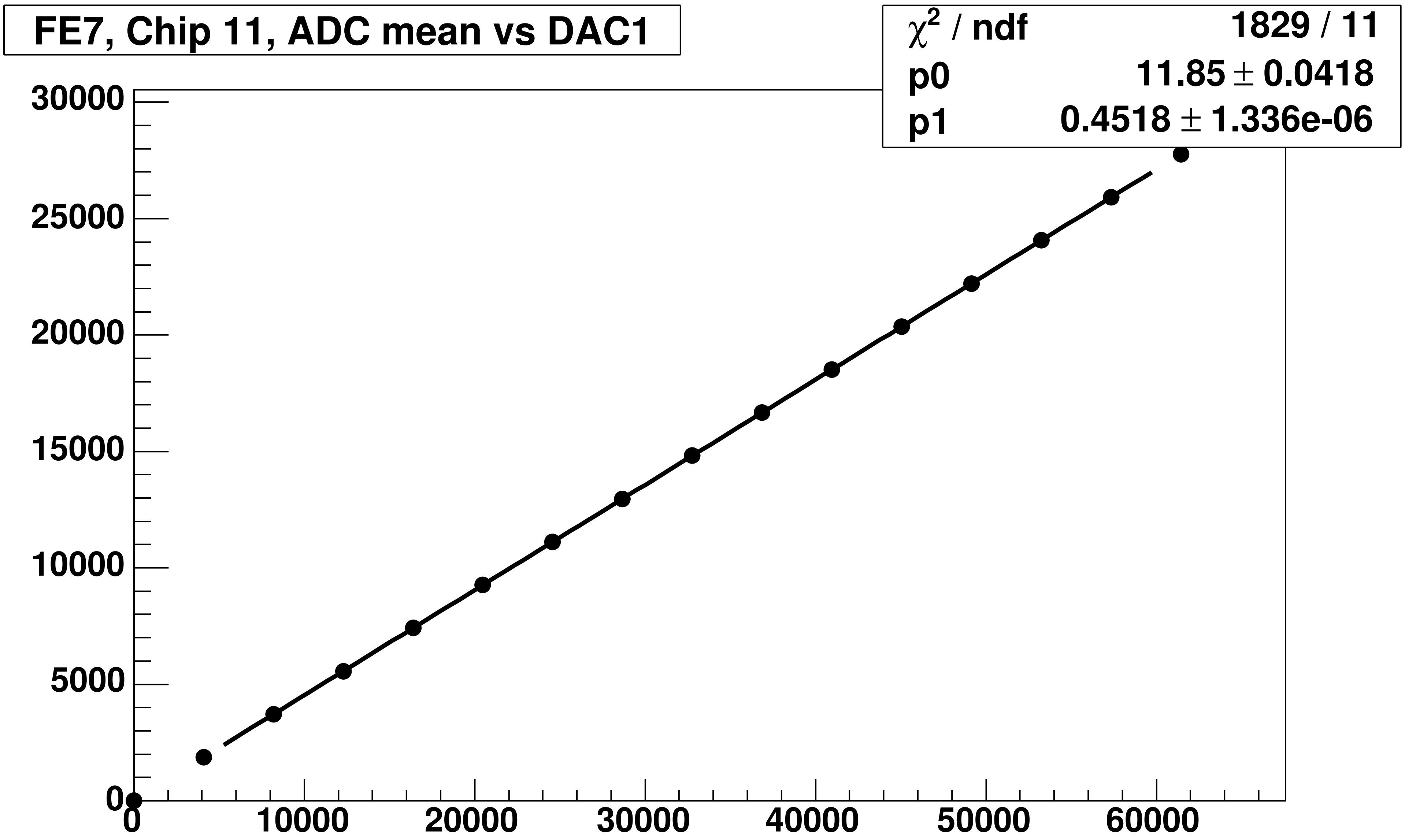


FE7, Chip 11, ADC mean vs DAC0
χ^2 / ndf 42.91 / 11
p0 9.652 ± 0.03946
p1 7.732e-07 ± 1.086e-06
9.4
9.5
9.6
9.7
9.8
9.9
0
10000
20000
30000
40000
50000
60000

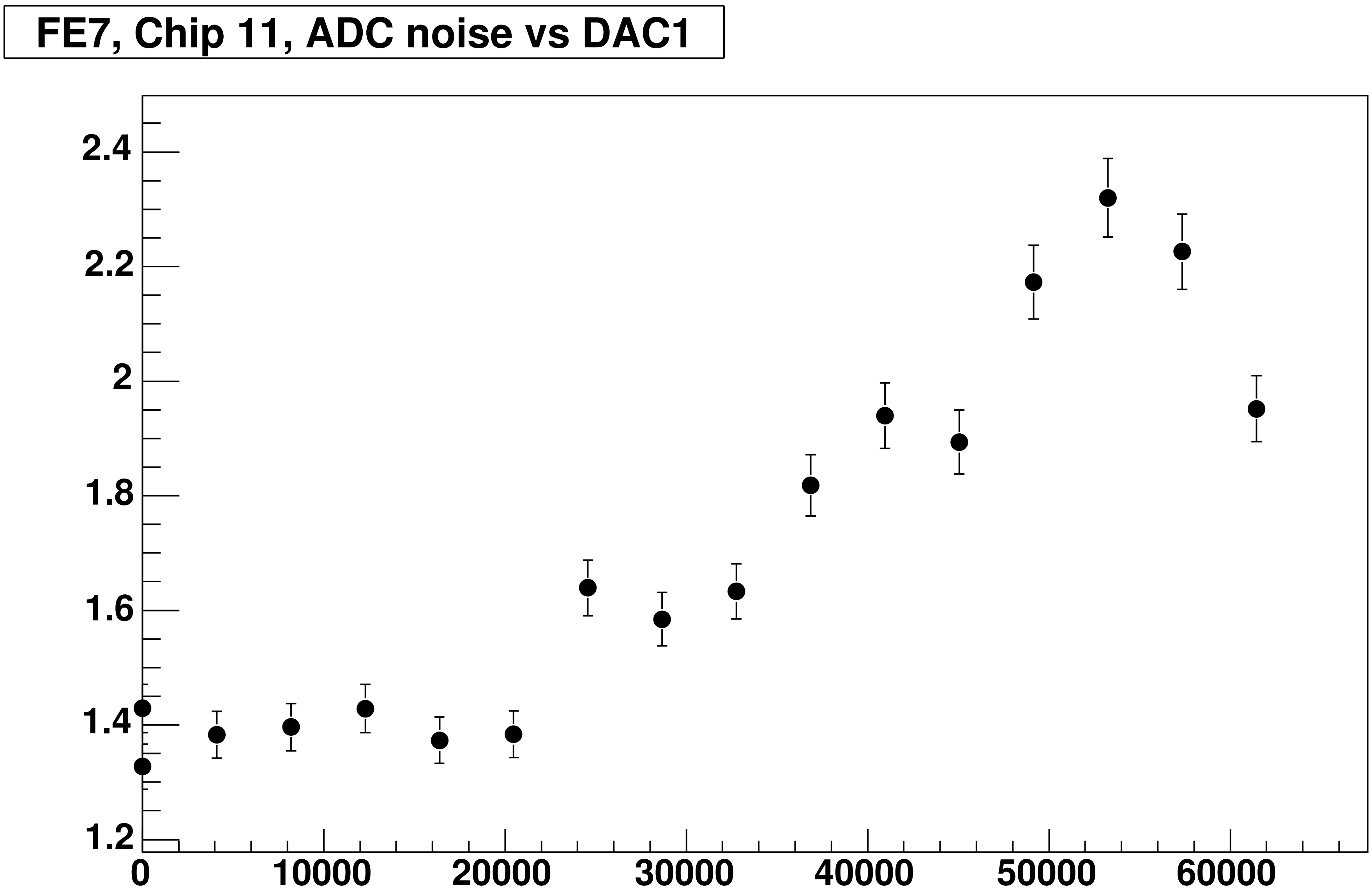

FE7, Chip 11, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



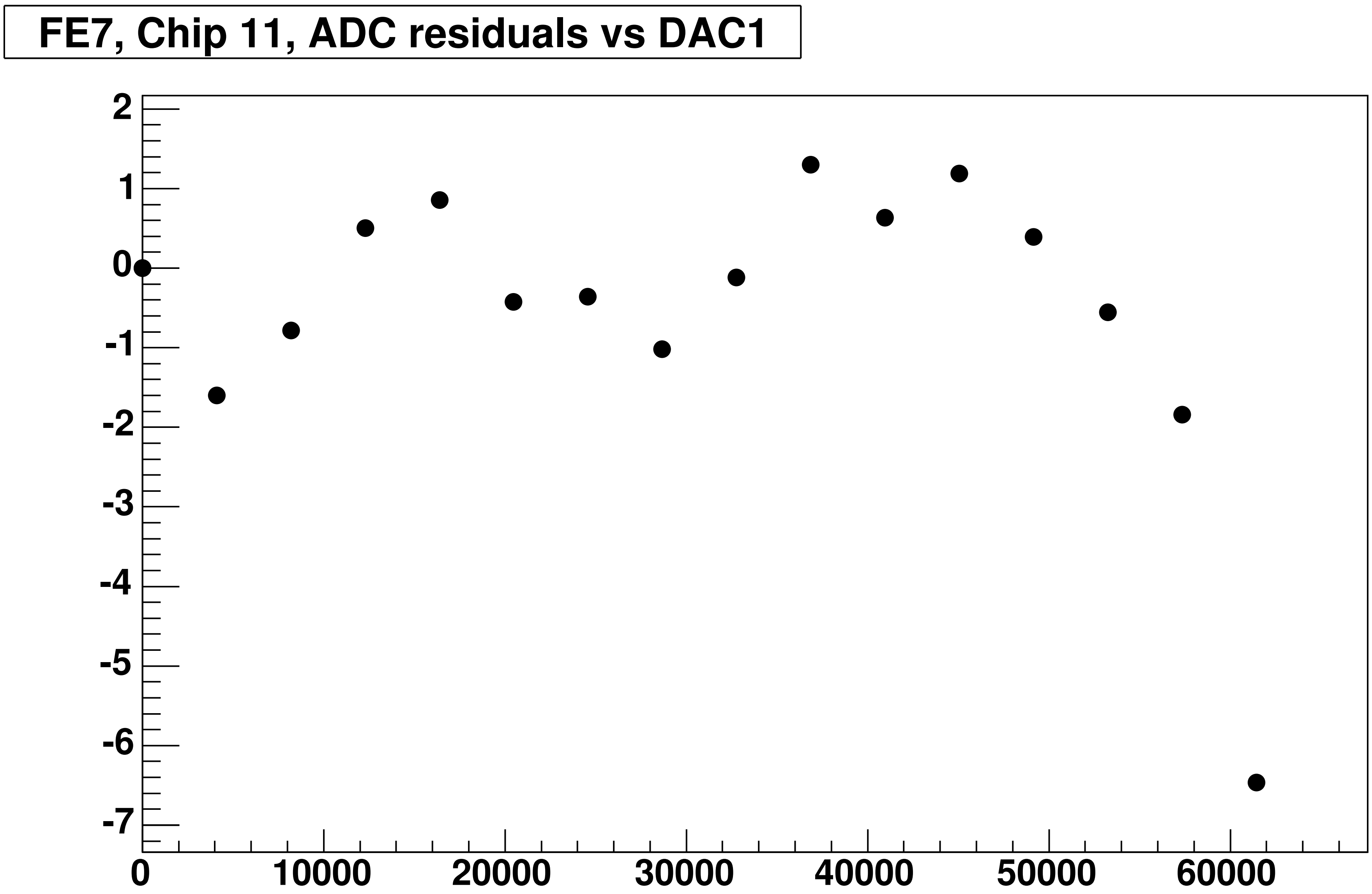
FE7, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



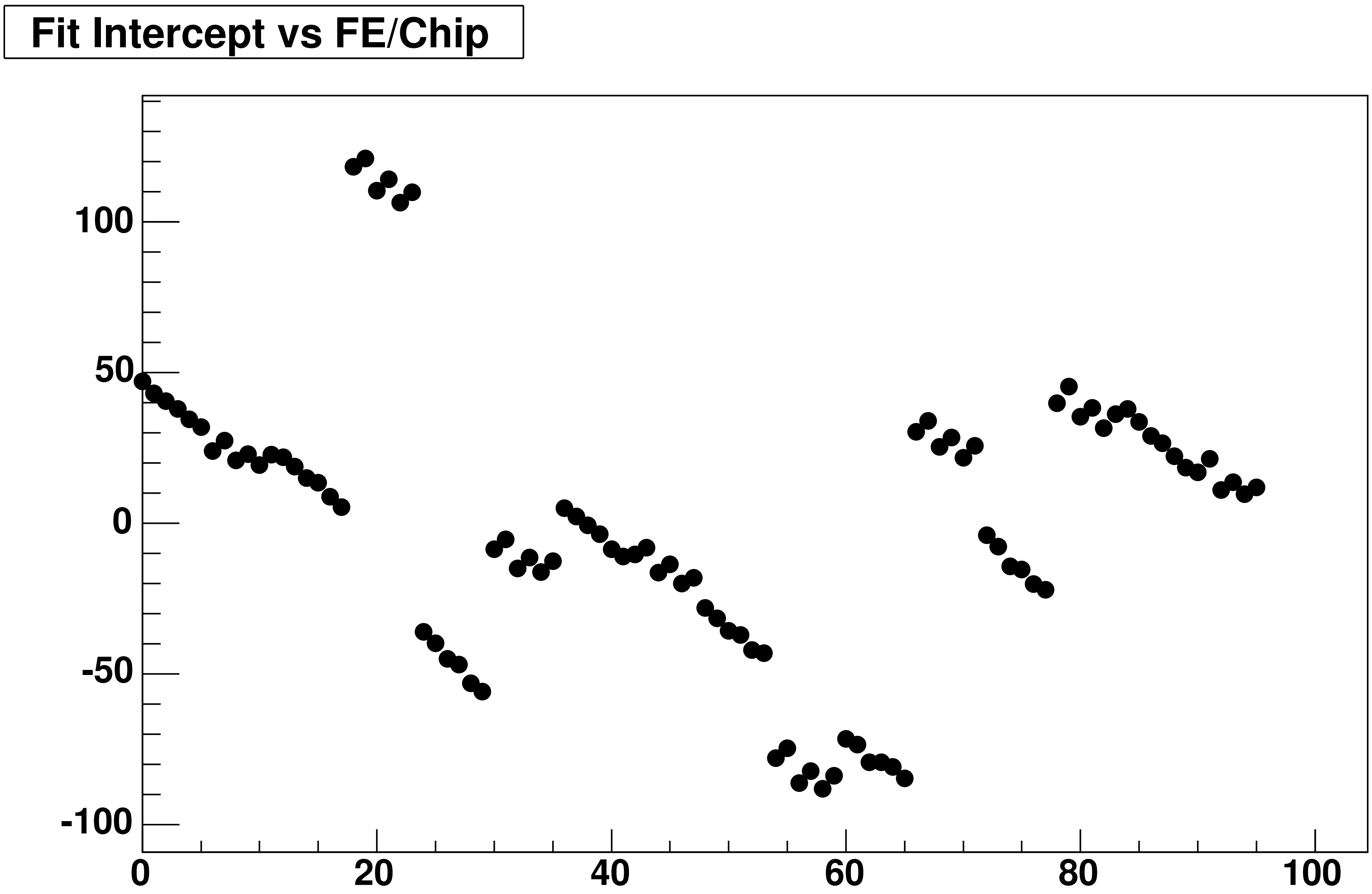
FE7, Chip 11, ADC mean vs DAC1
χ2 / ndf 1829 / 11
p0 11.85 ± 0.0418
p1 0.4518 ± 1.336e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



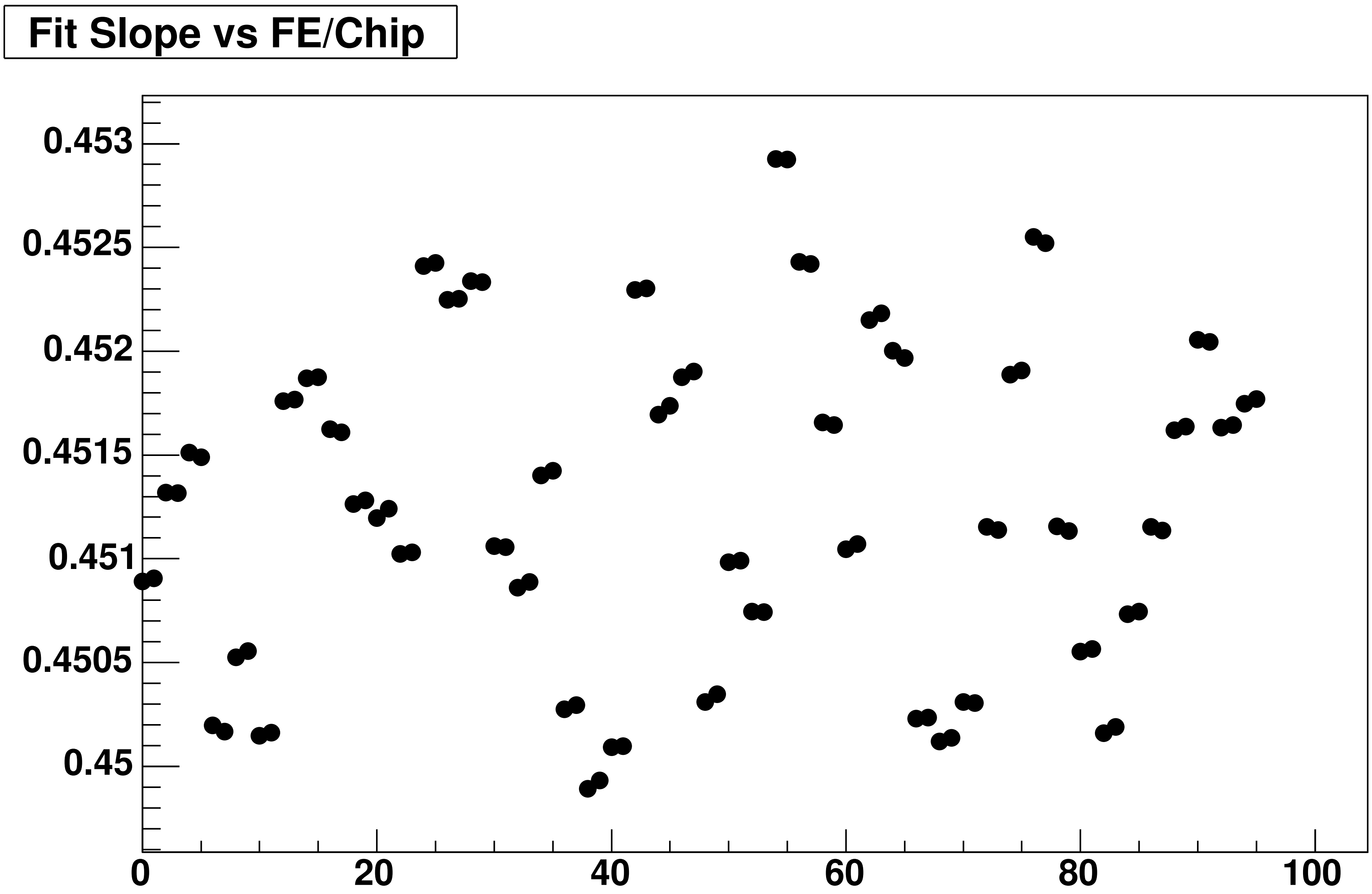
FE7, Chip 11, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



FE7, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000



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



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