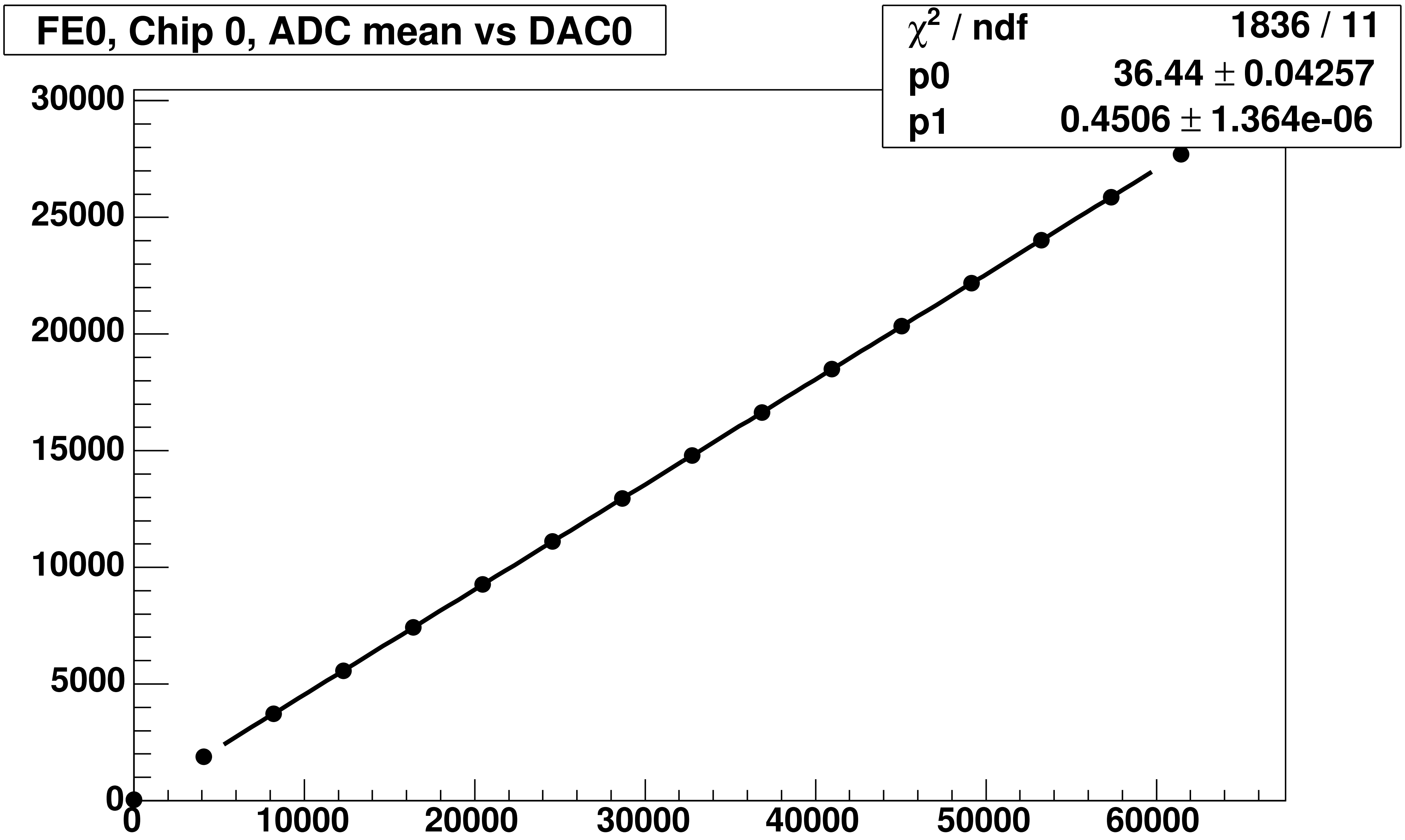
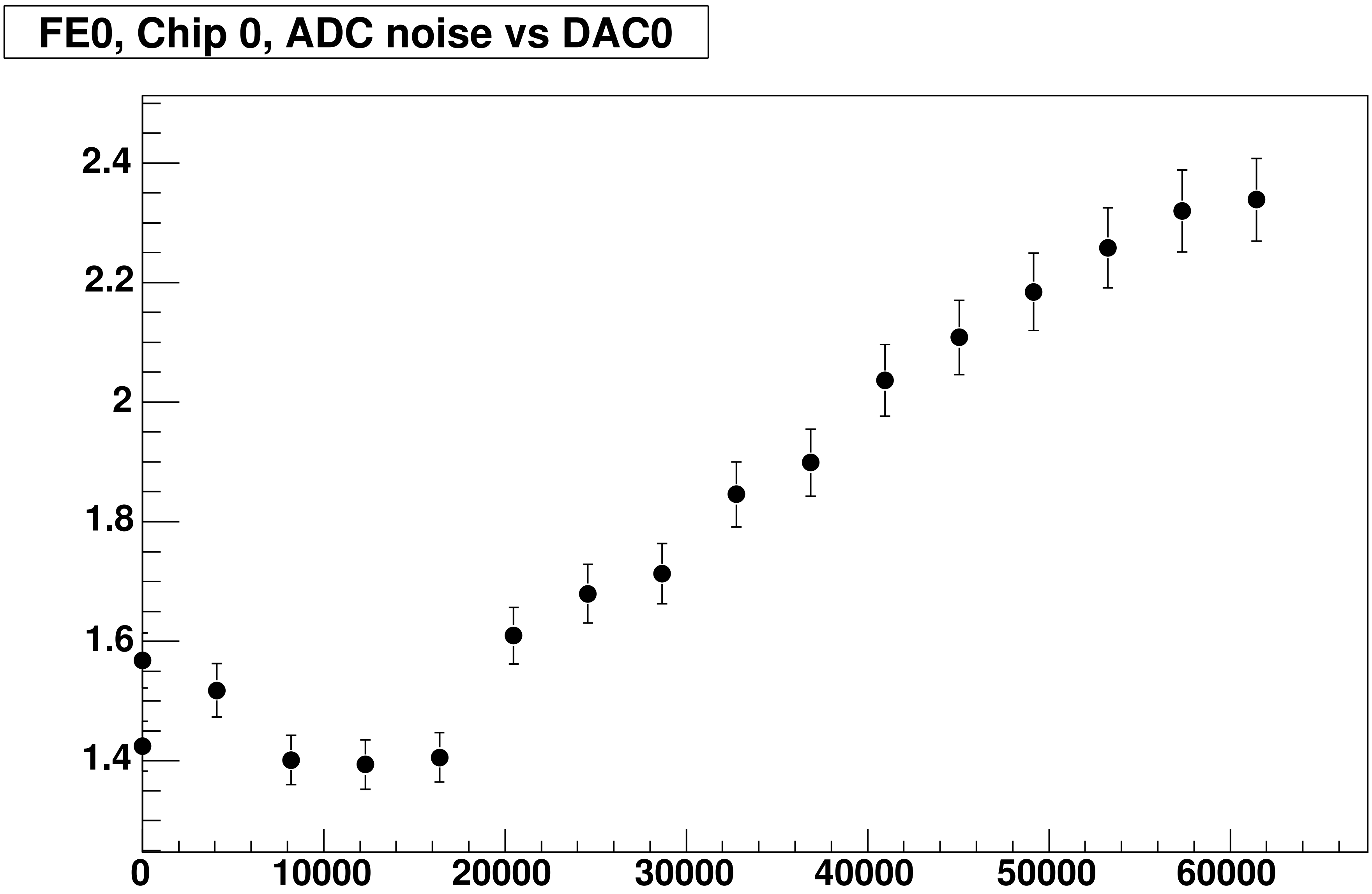
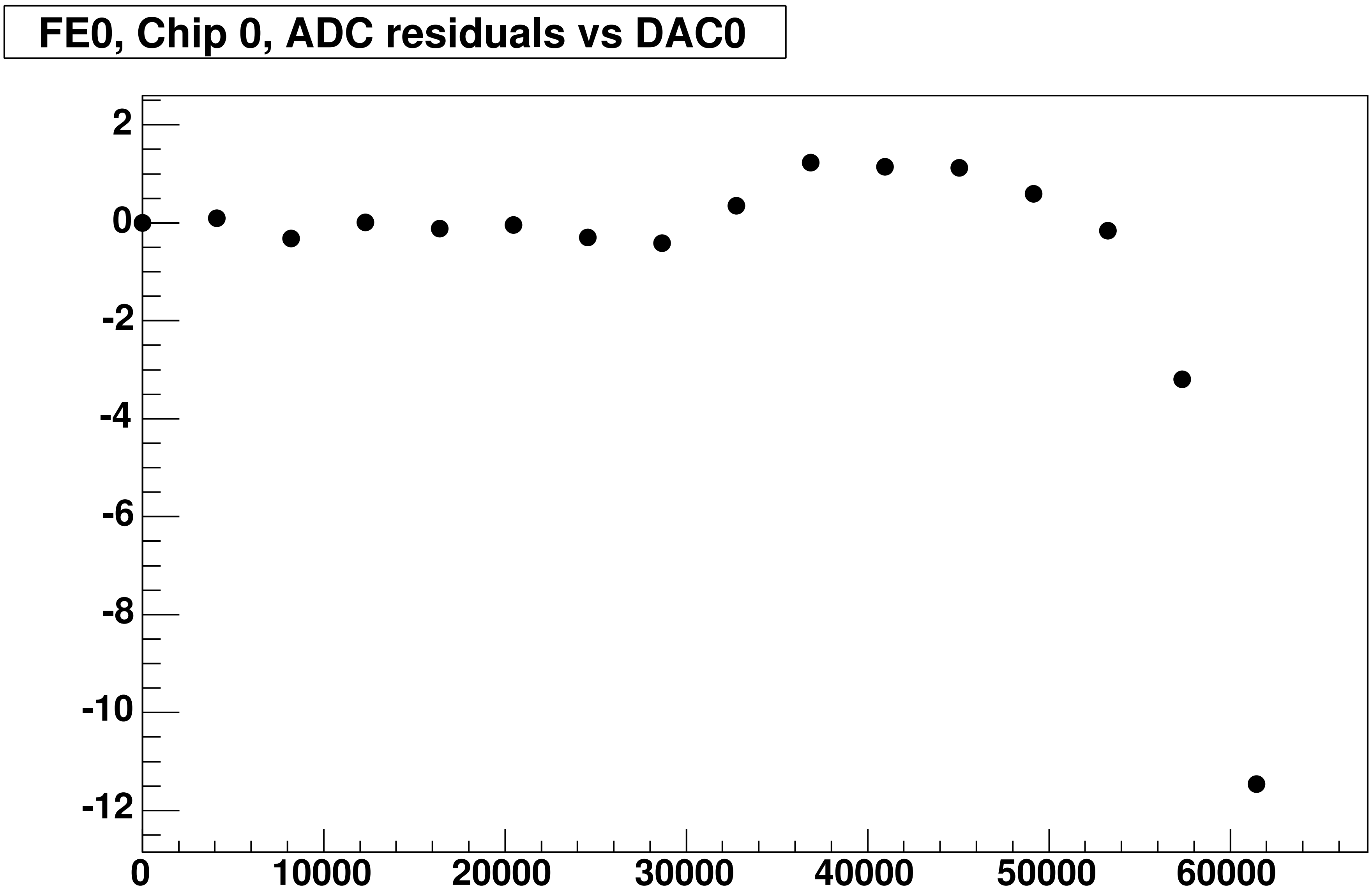
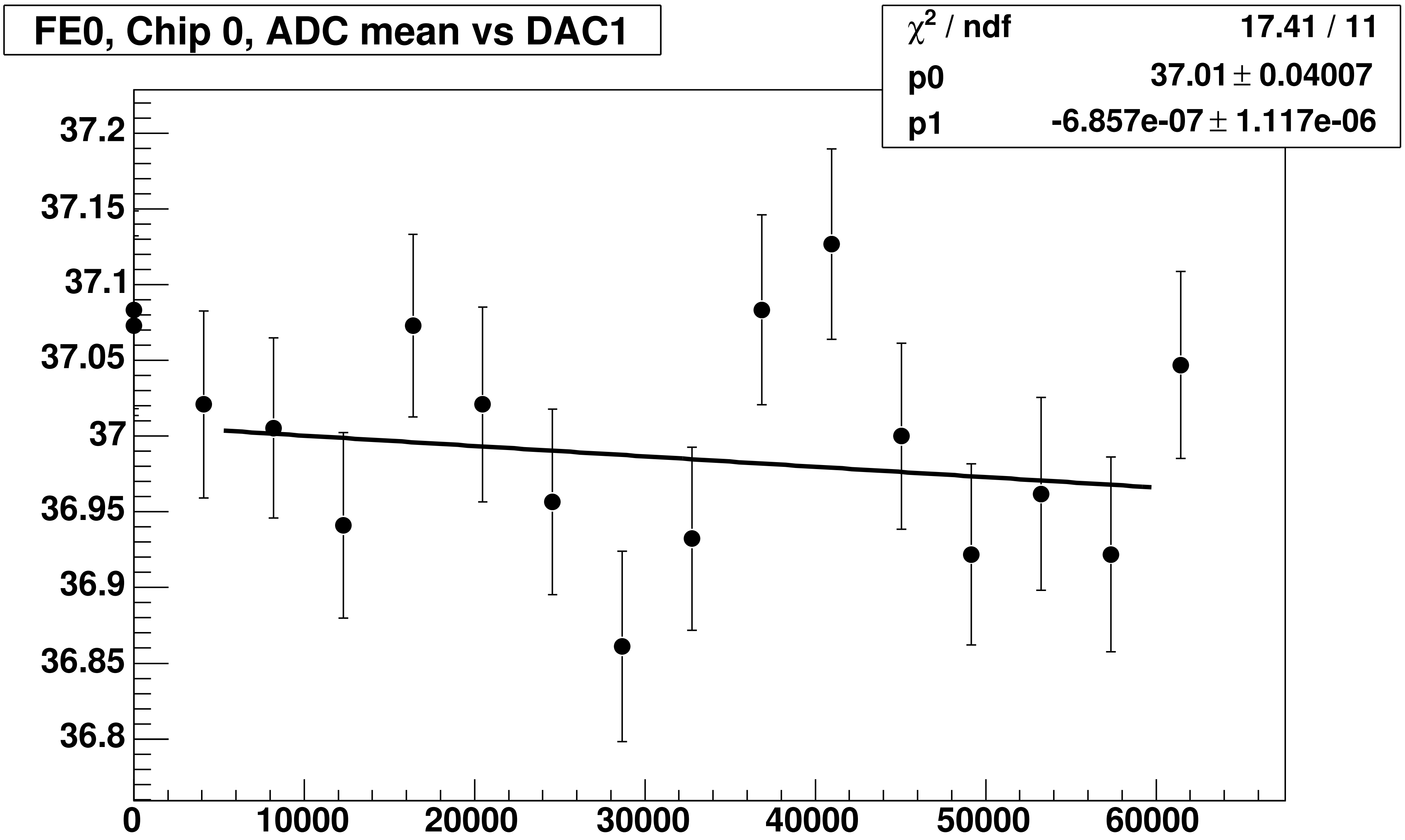


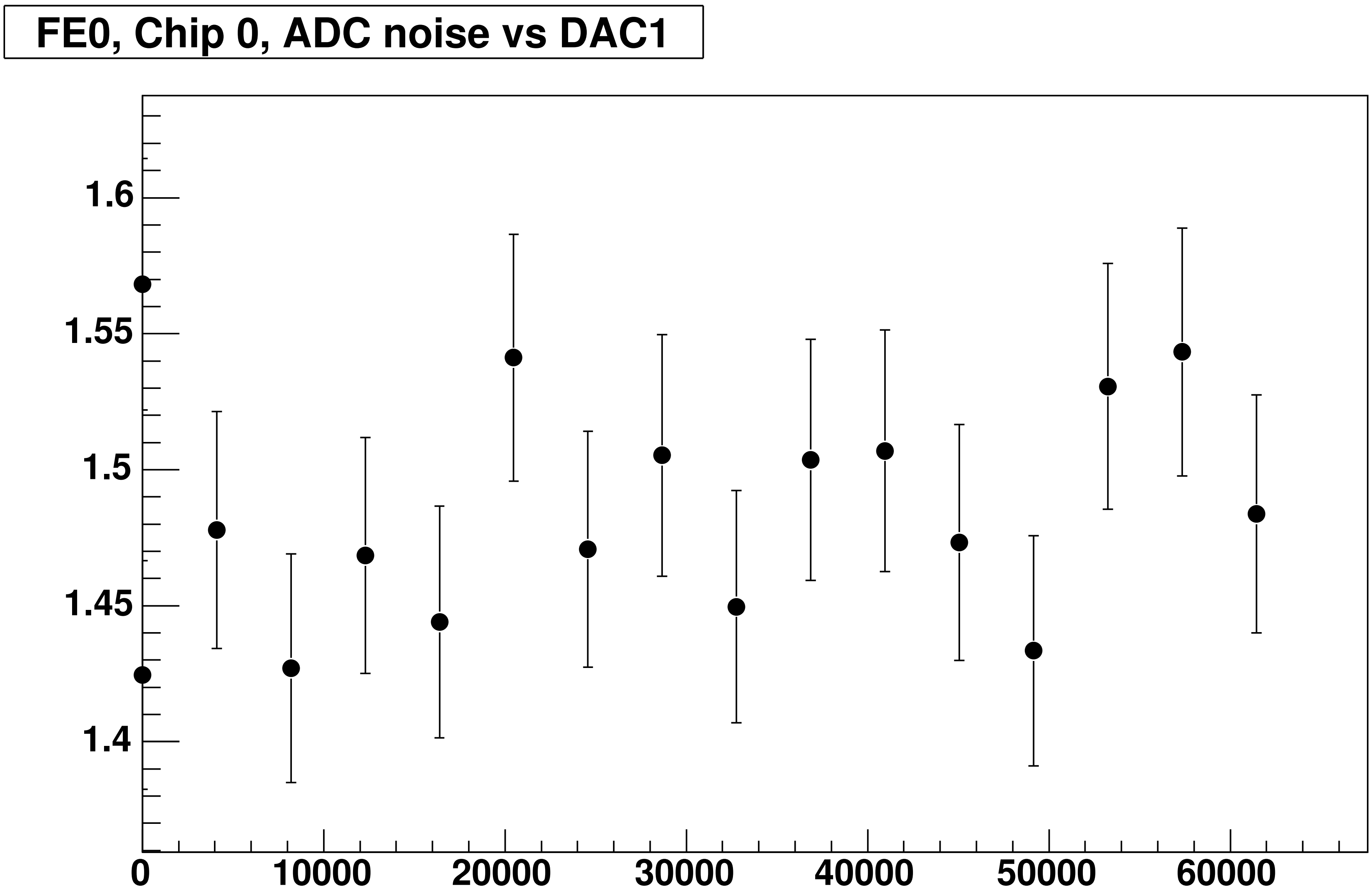
FE0, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1836 / 11
p0 36.44 ± 0.04257
p1 0.4506 ± 1.364e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

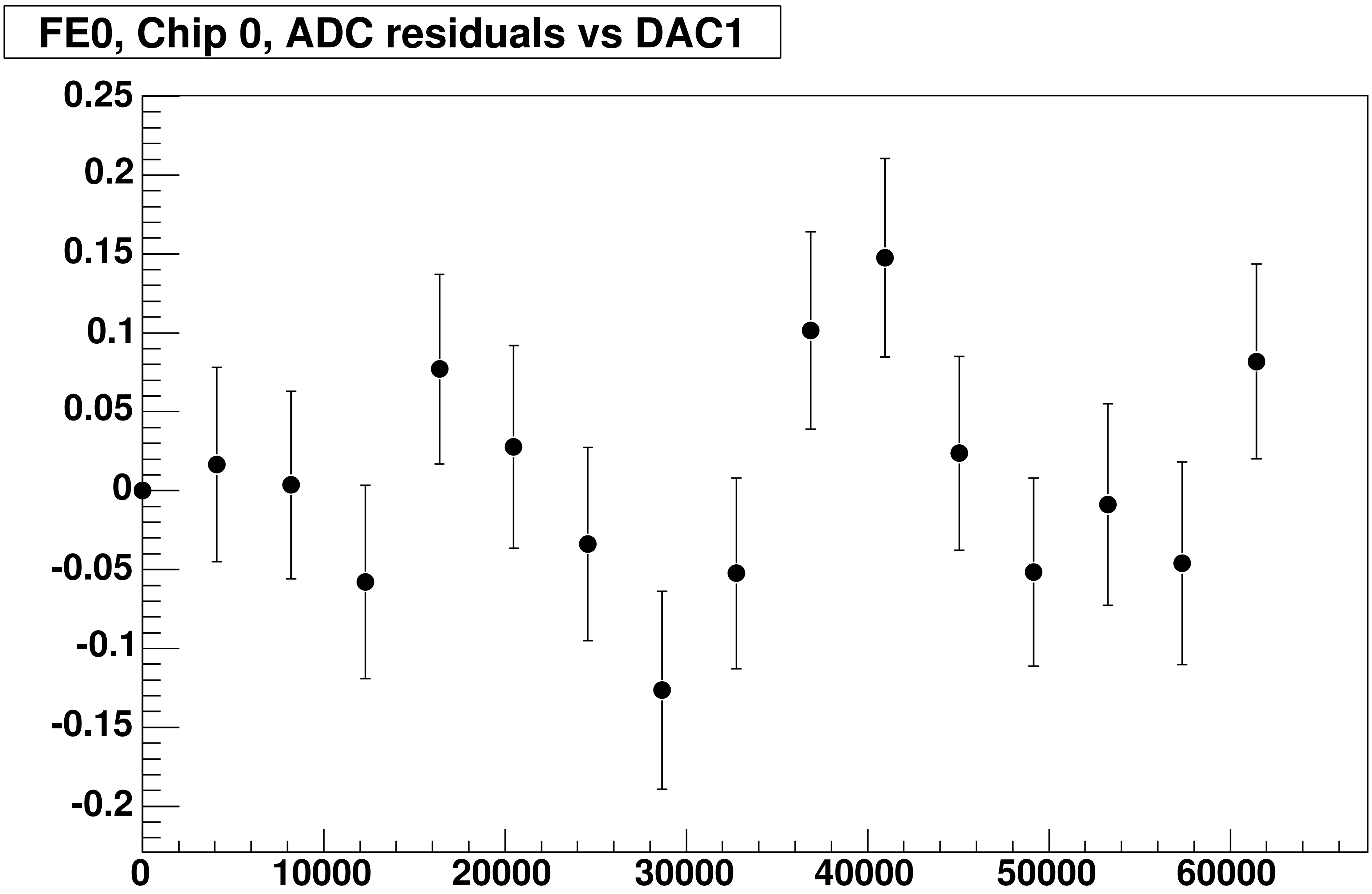

FE0, Chip 0, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

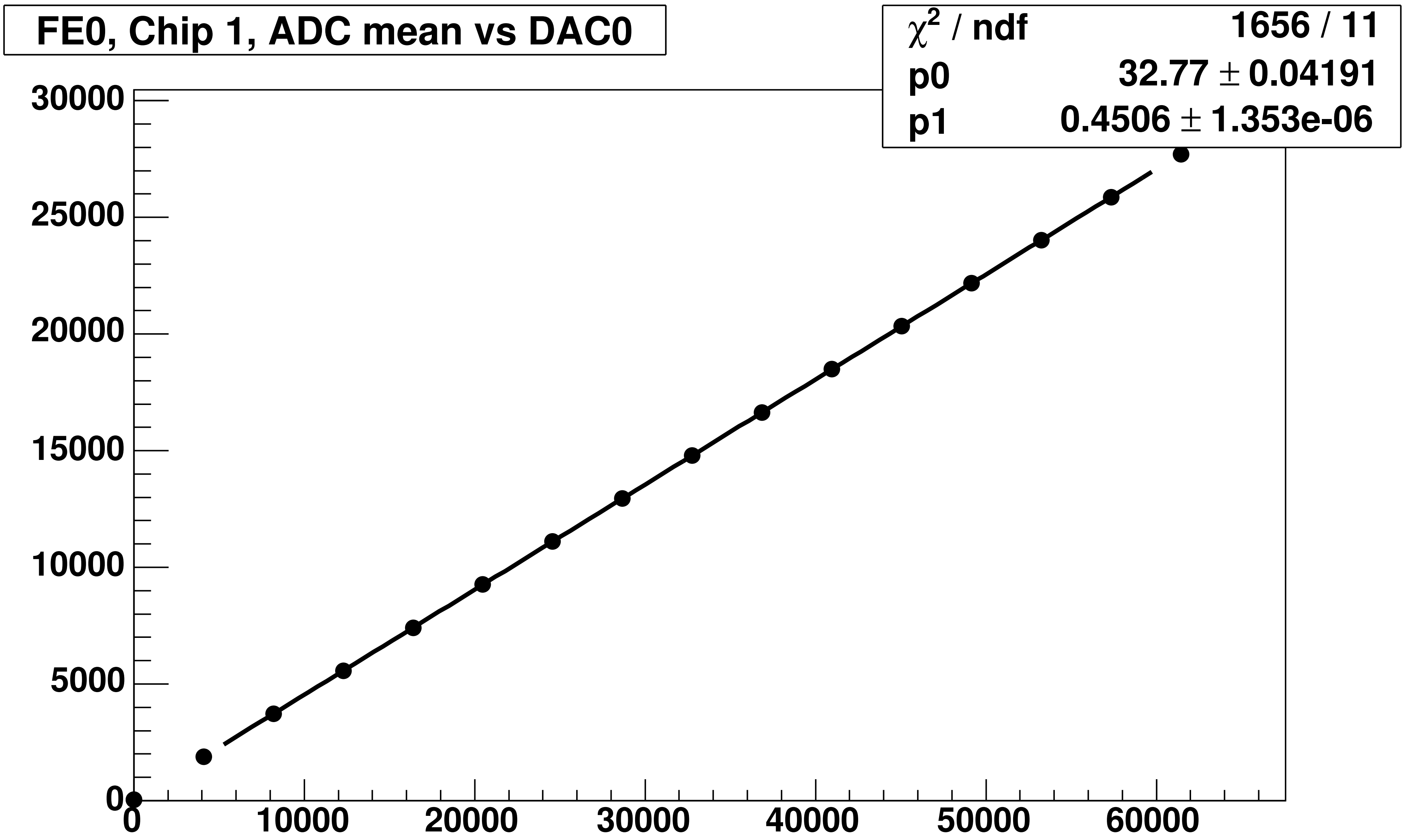

FE0, Chip 0, ADC residuals vs DAC0
2
0
-2
-4
-6
-8
-10
-12
0
10000
20000
30000
40000
50000
60000

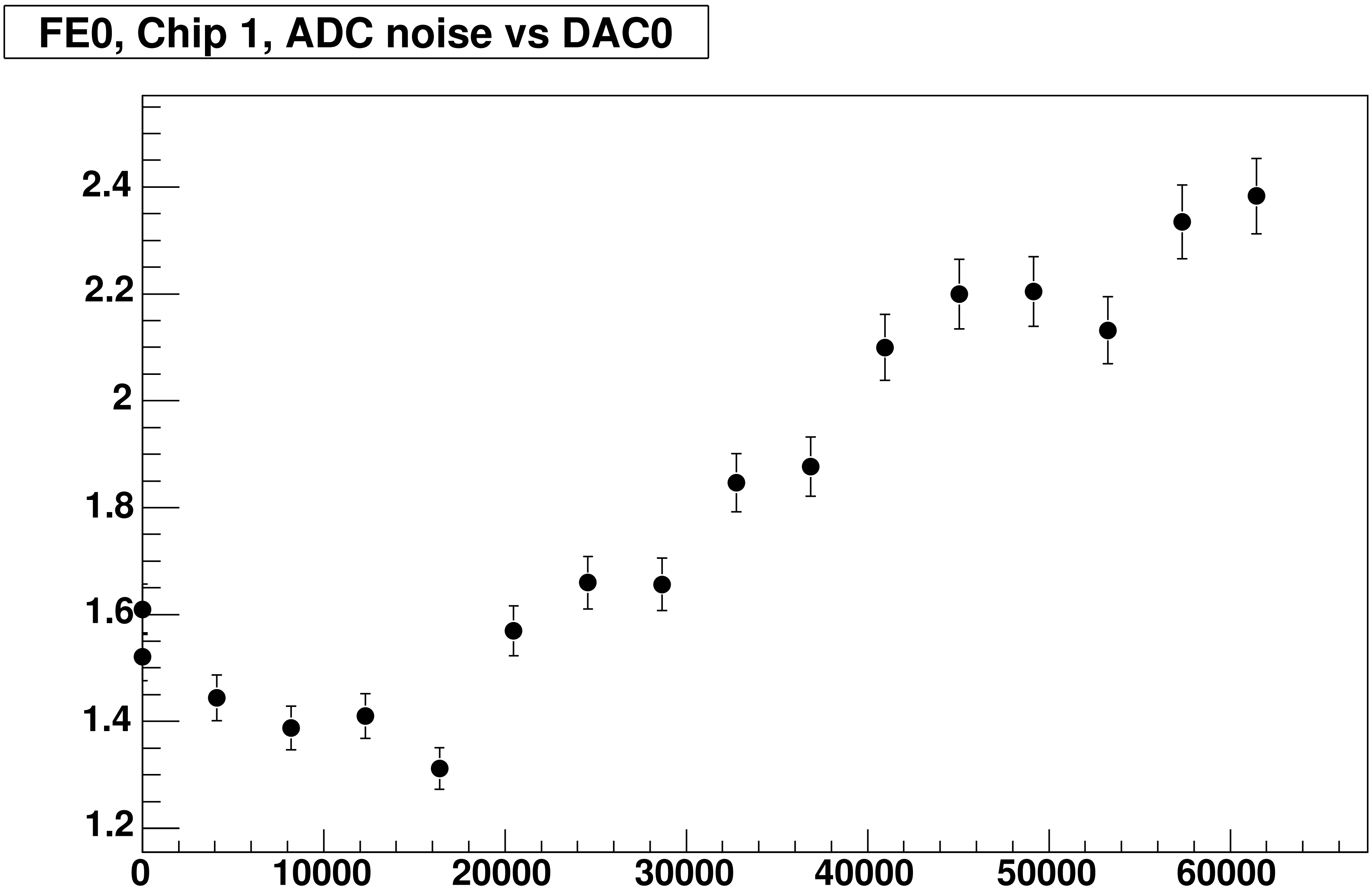


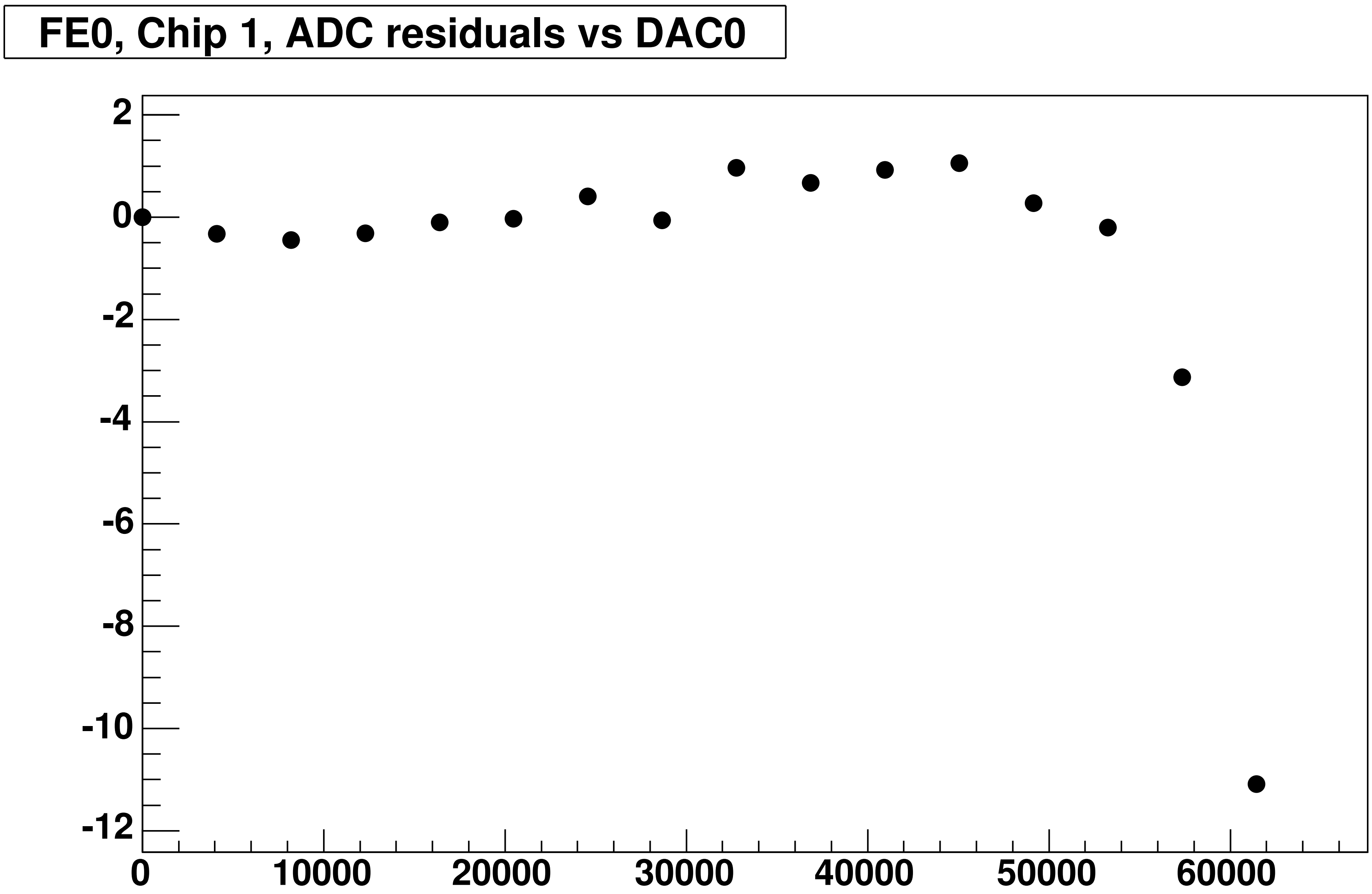
FE0, Chip 0, ADC mean vs DAC1
χ^2 / ndf 17.41 / 11
p0 37.01 ± 0.04007
p1 -6.857e-07 ± 1.117e-06
37.2
37.15
37.1
37.05
37
36.95
36.9
36.85
36.8
0
10000
20000
30000
40000
50000
60000

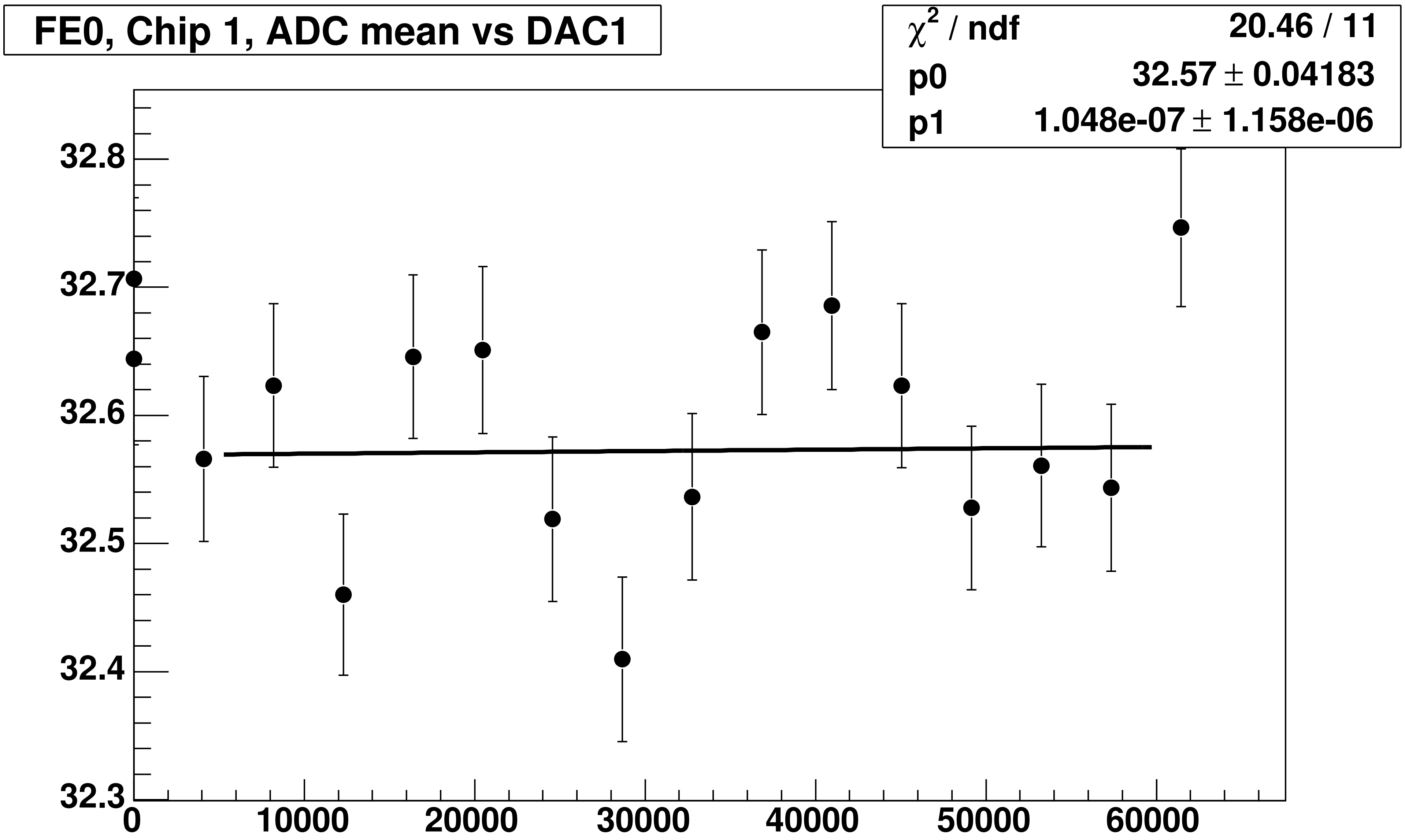

FE0, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

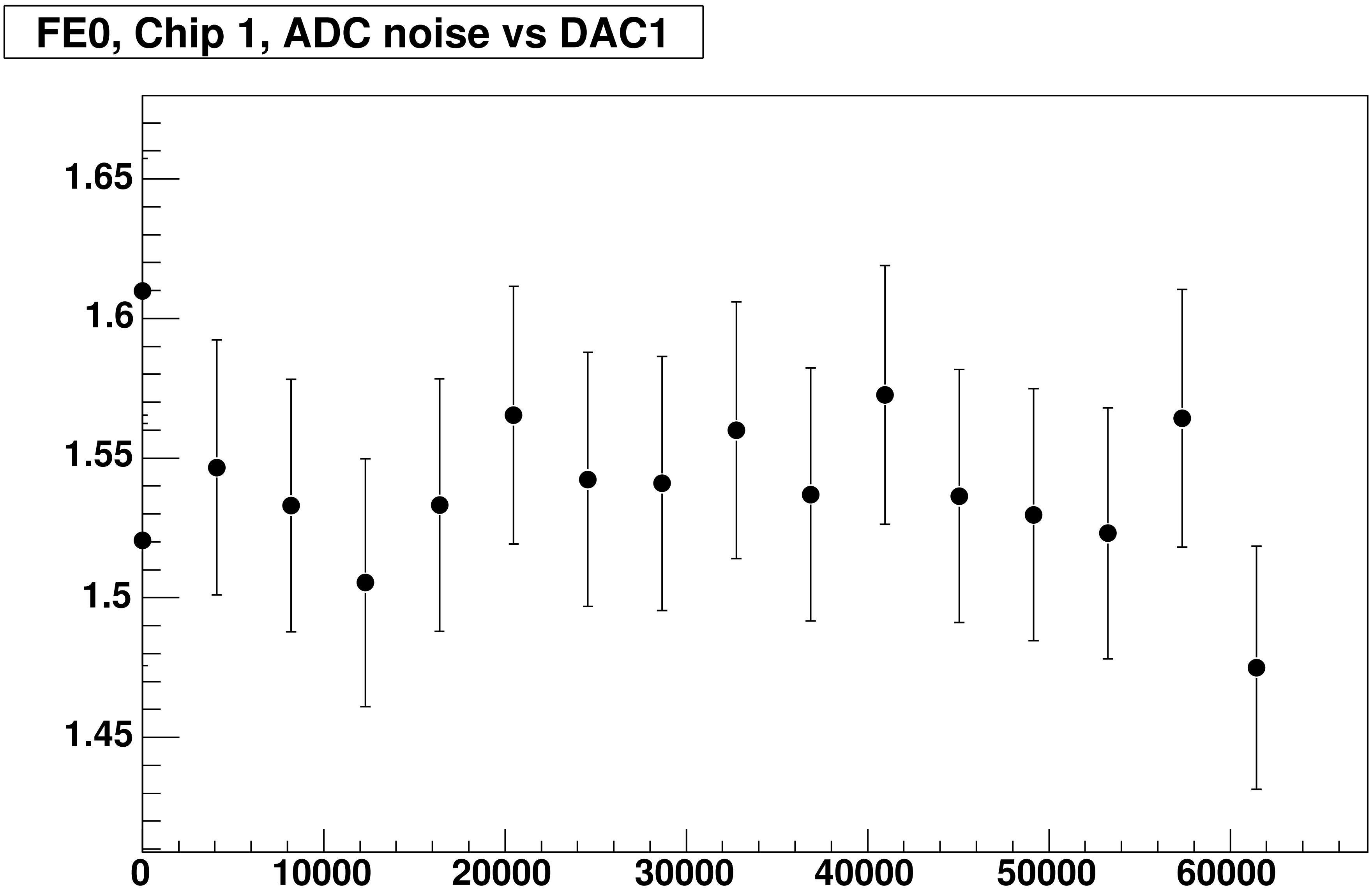

FE0, Chip 0, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

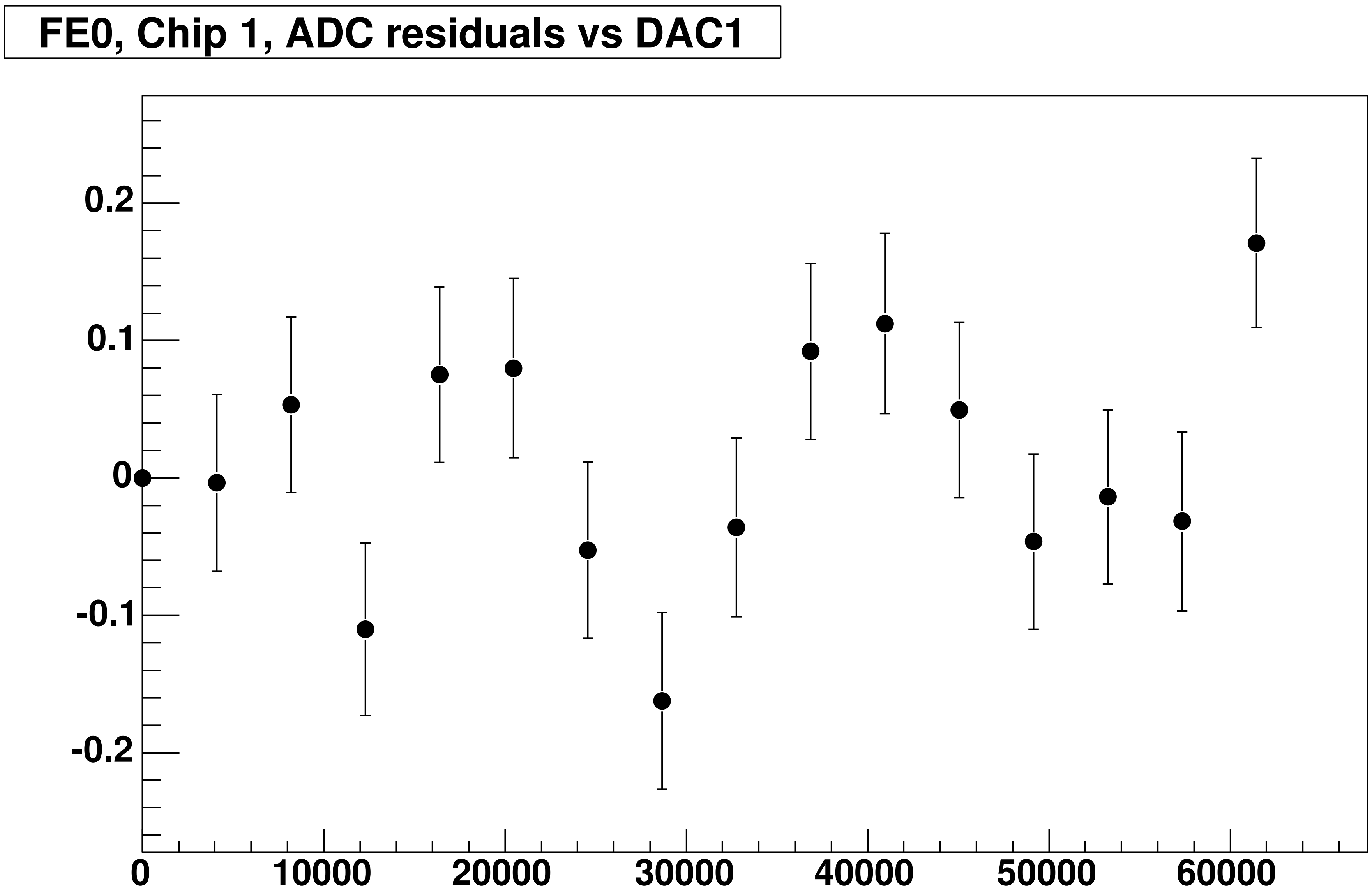

FE0, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1656 / 11
p0 32.77 ± 0.04191
p1 0.4506 ± 1.353e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

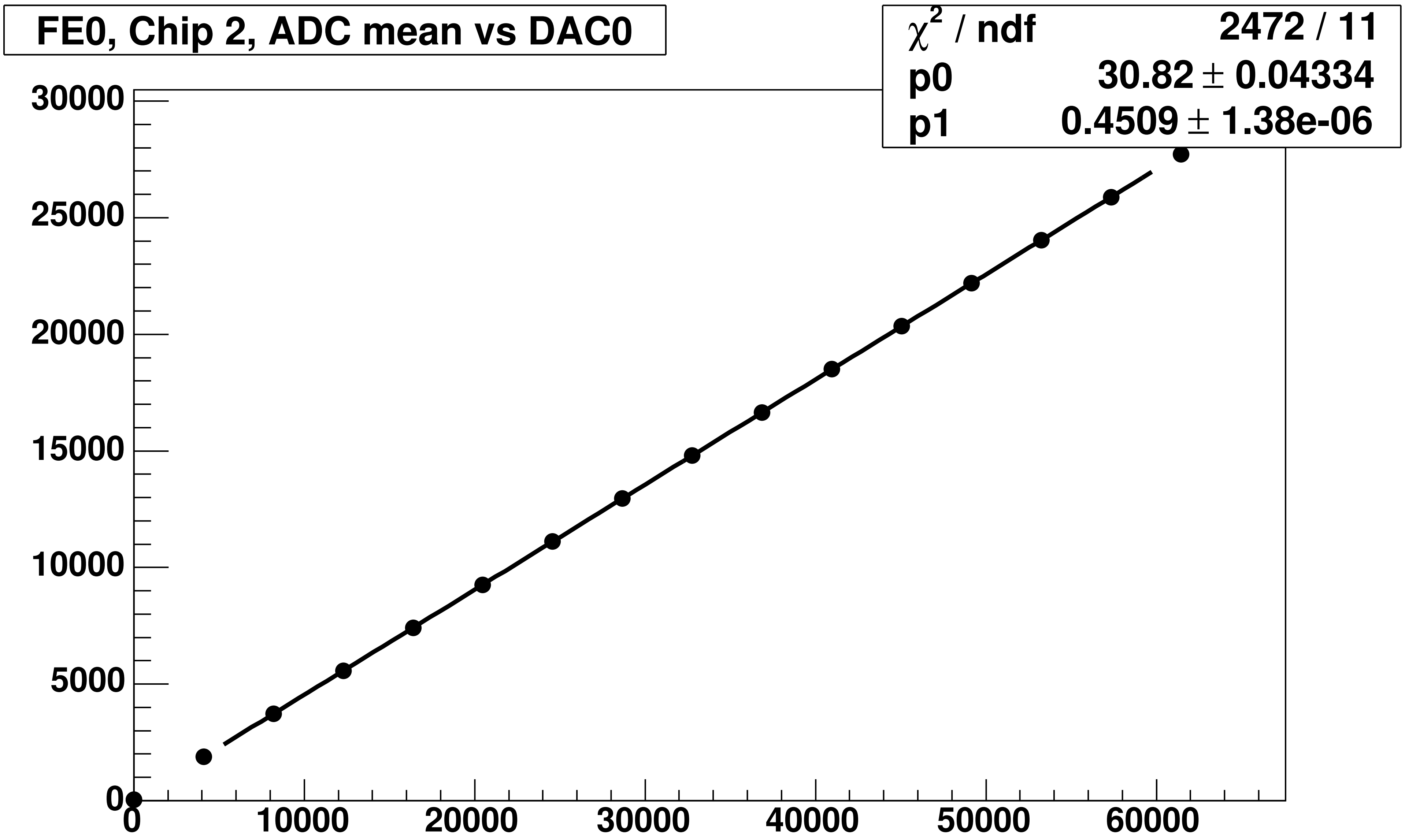

FE0, Chip 1, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE0, Chip 1, ADC residuals vs DAC0
2
0
-2
-4
-6
-8
-10
-12
0
10000
20000
30000
40000
50000
60000

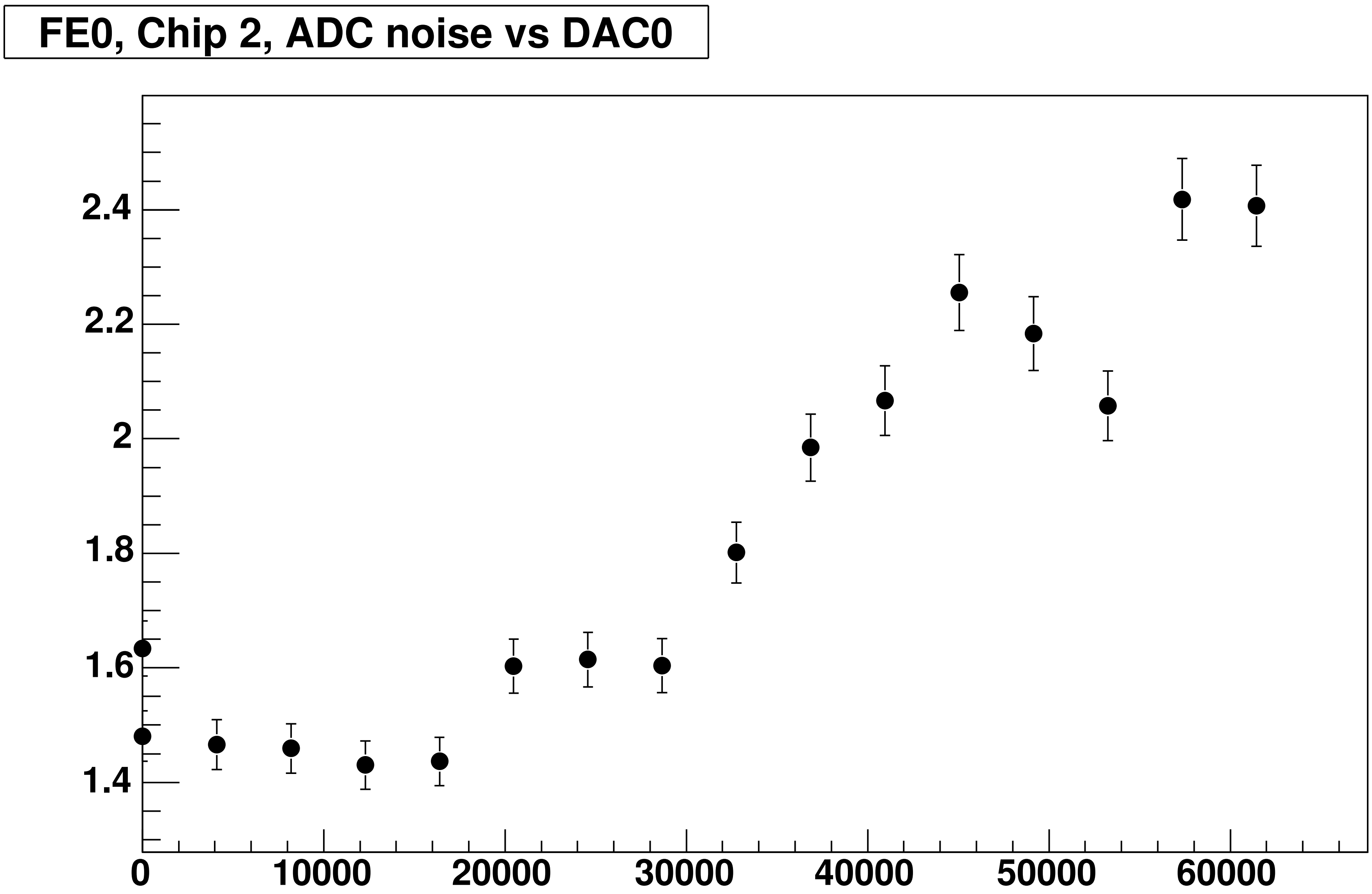

FE0, Chip 1, ADC mean vs DAC1
χ^2 / ndf 20.46 / 11
p0 32.57 ± 0.04183
p1 1.048e-07 ± 1.158e-06
32.8
32.7
32.6
32.5
32.4
32.3
0
10000
20000
30000
40000
50000
60000

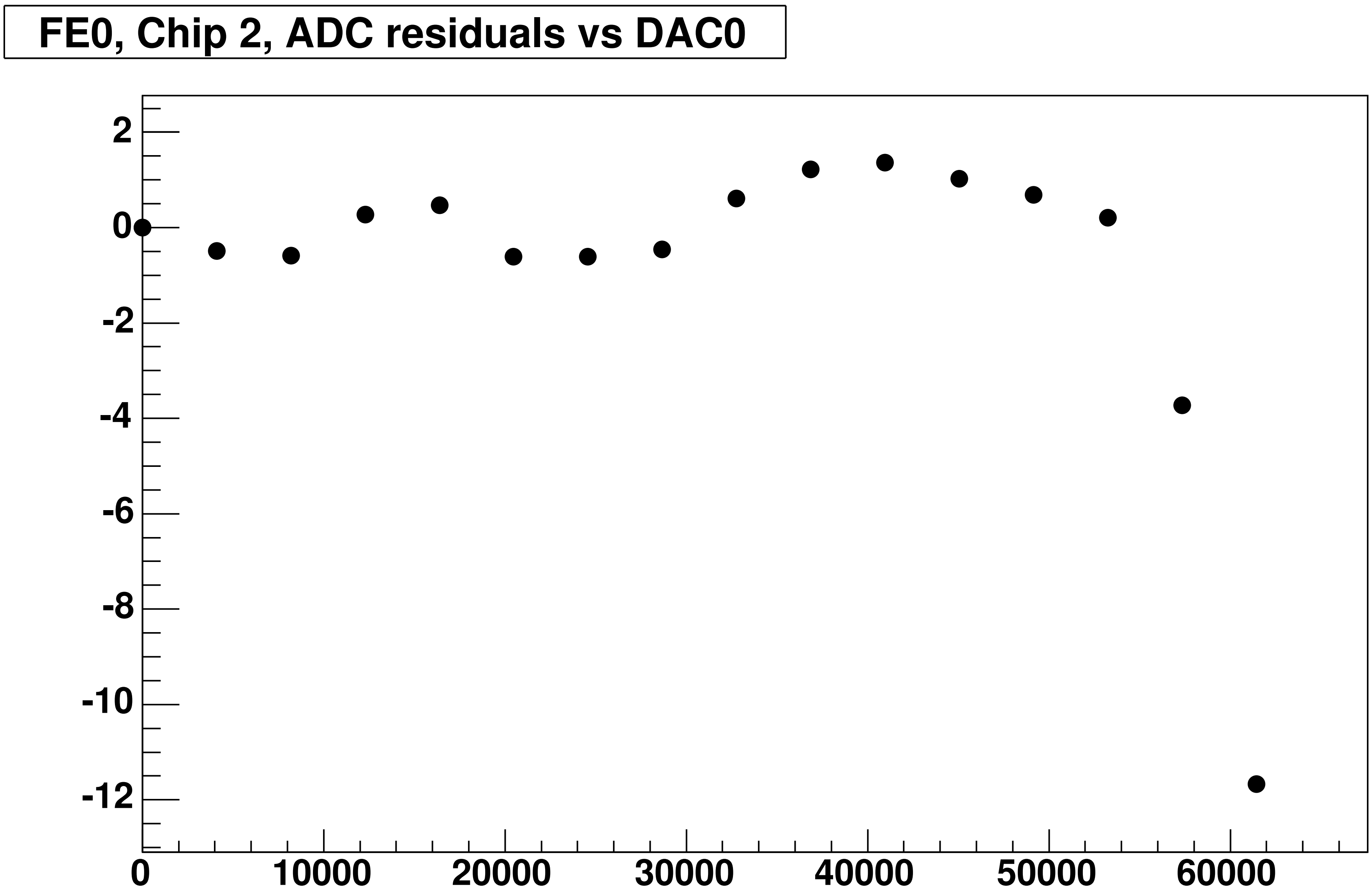

FE0, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

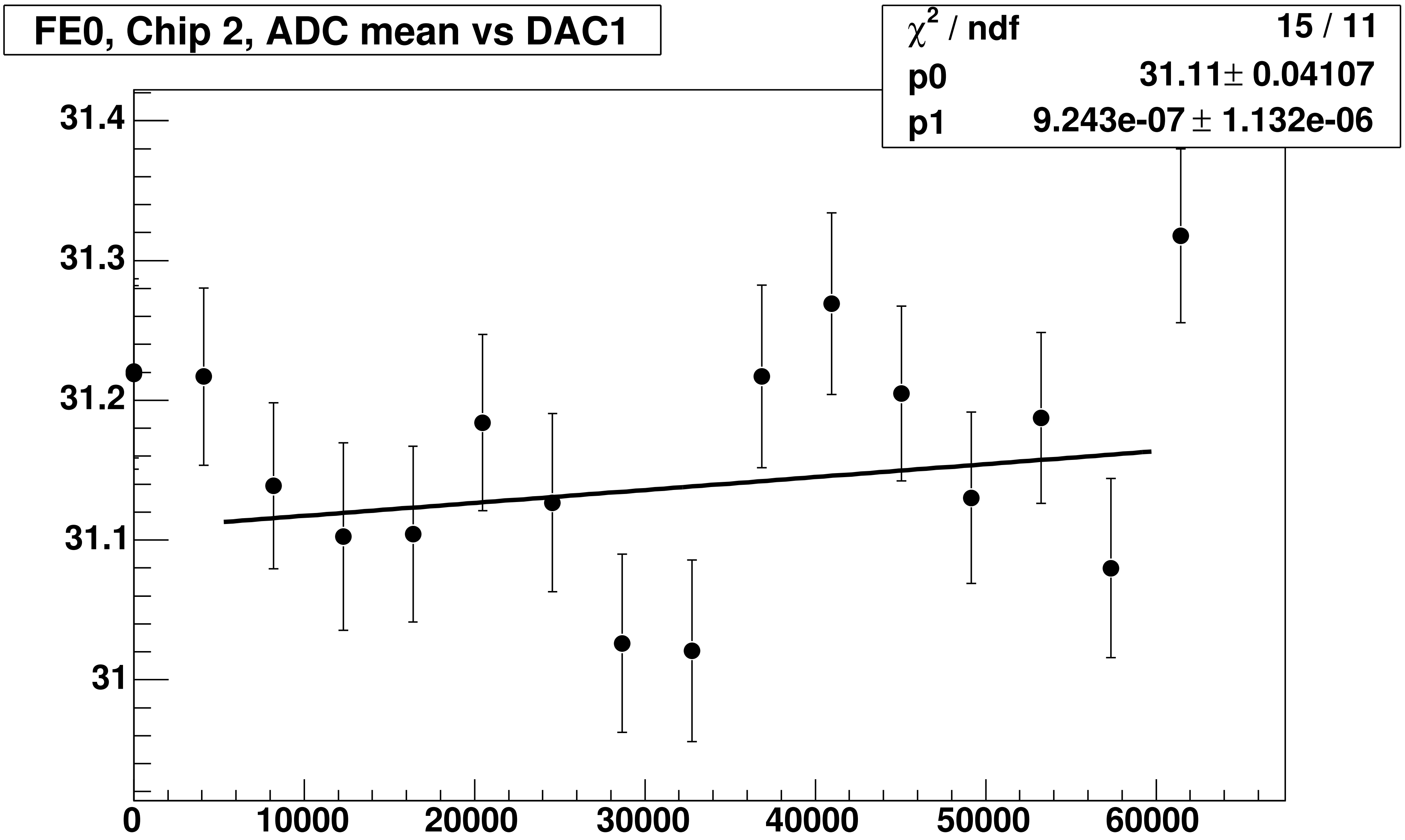

FE0, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

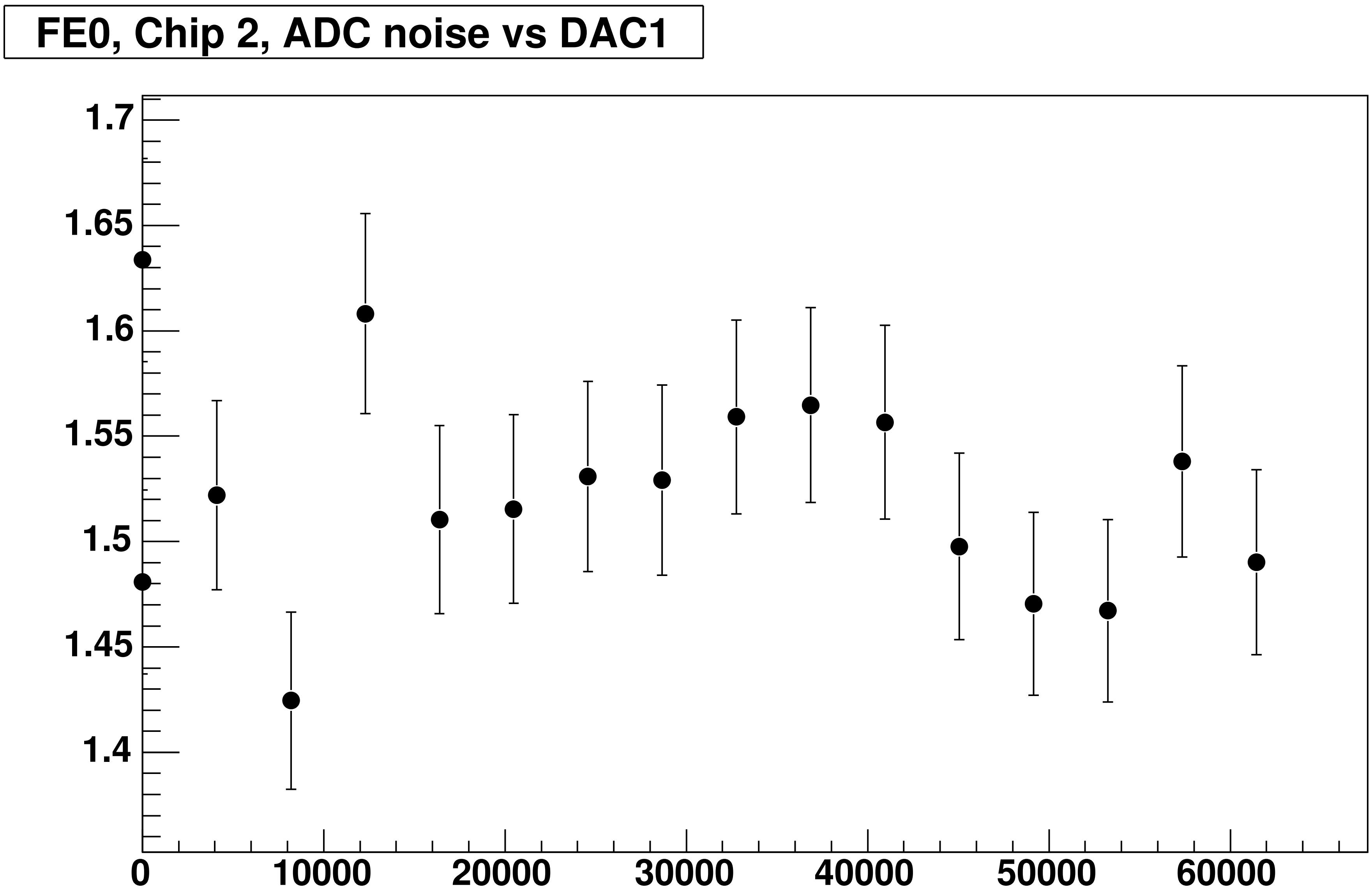


FE0, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2472 / 11
p0 30.82 ± 0.04334
p1 0.4509 ± 1.38e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

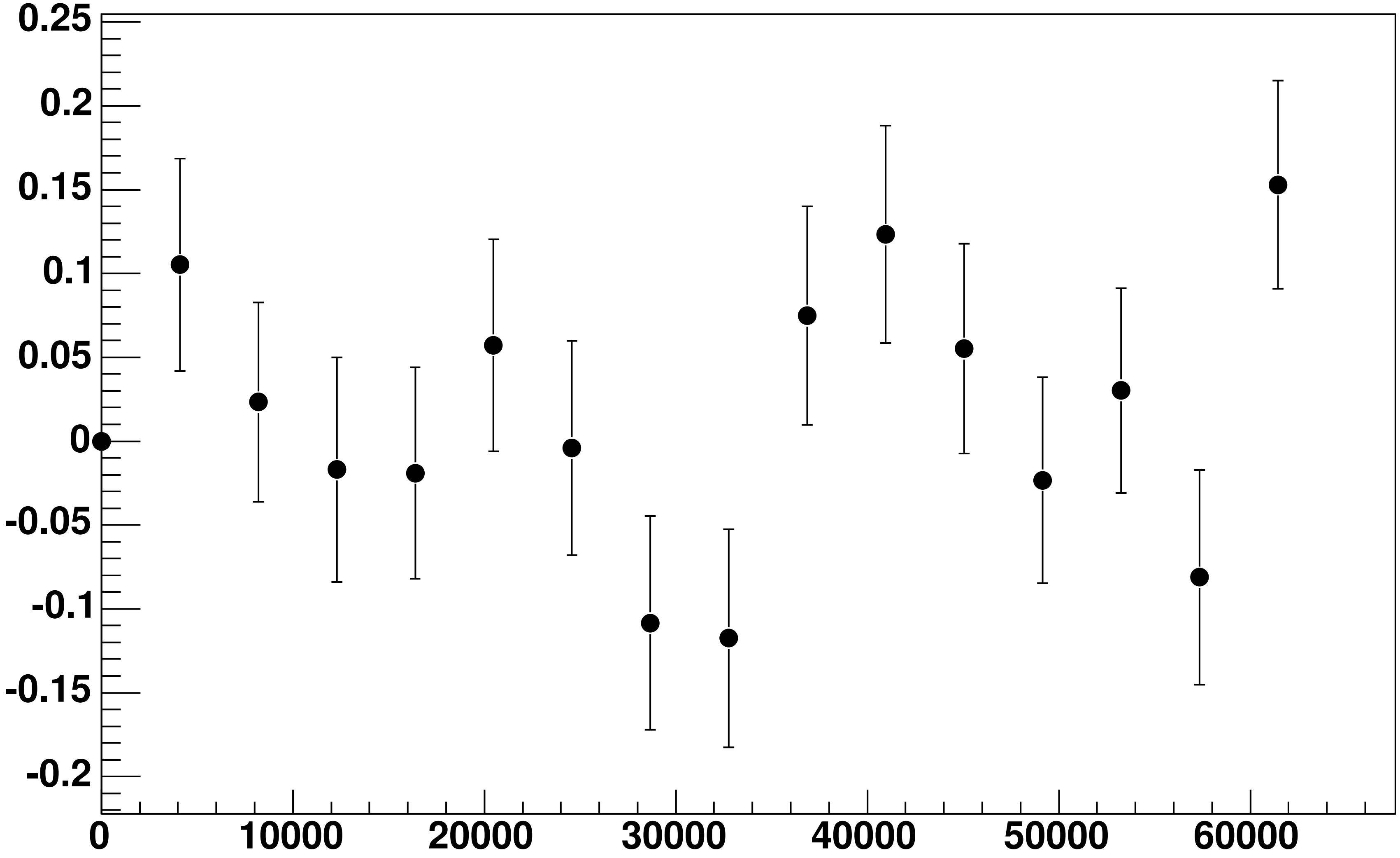

FE0, Chip 2, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

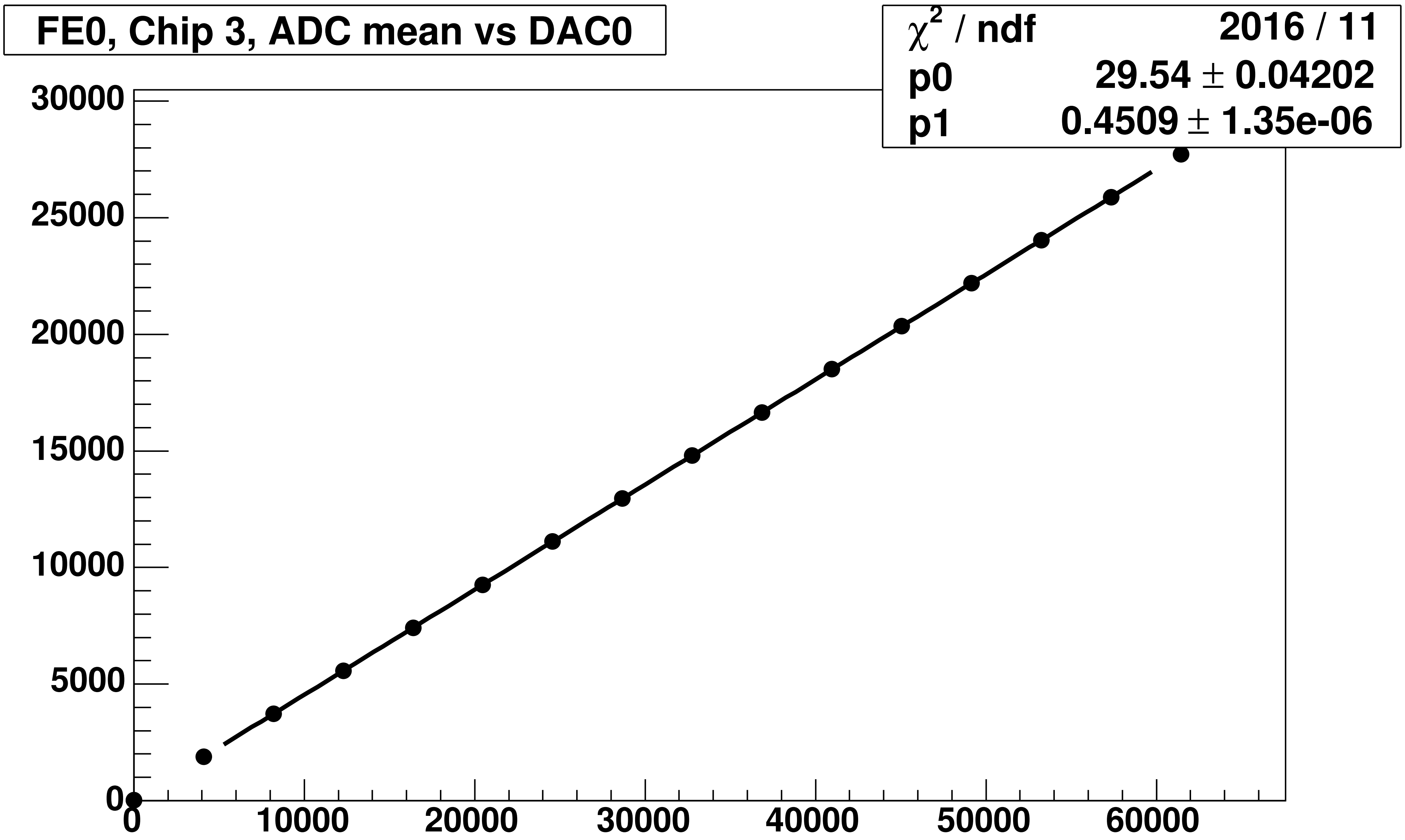

FE0, Chip 2, ADC residuals vs DAC0
2
0
-2
-4
-6
-8
-10
-12
0
10000
20000
30000
40000
50000
60000


FE0, Chip 2, ADC mean vs DAC1
χ² / ndf 15 / 11
p0 31.11± 0.04107
p1 9.243e-07 ± 1.132e-06
31.4
31.3
31.2
31.1
31
0
10000
20000
30000
40000
50000
60000

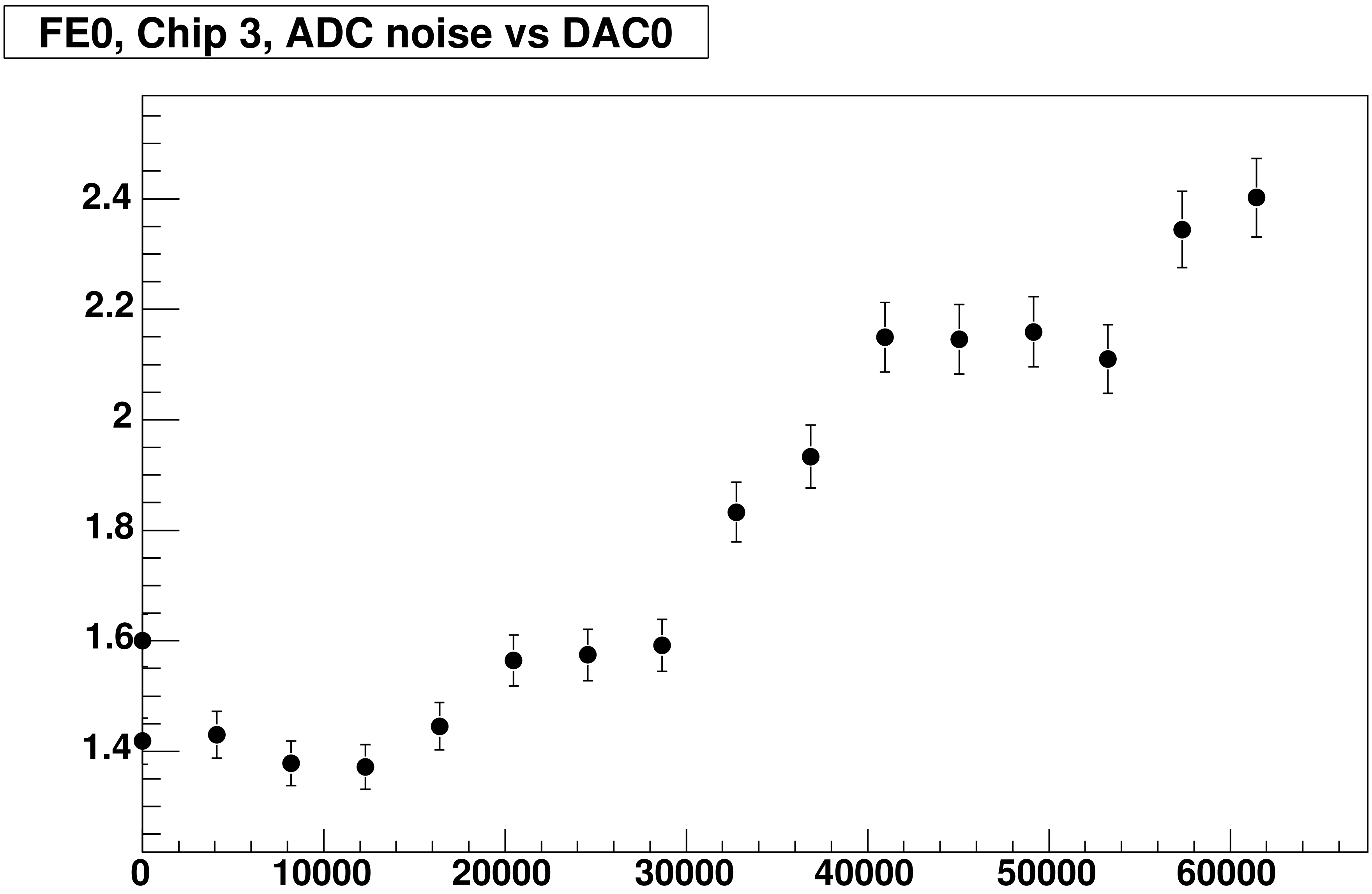

FE0, Chip 2, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

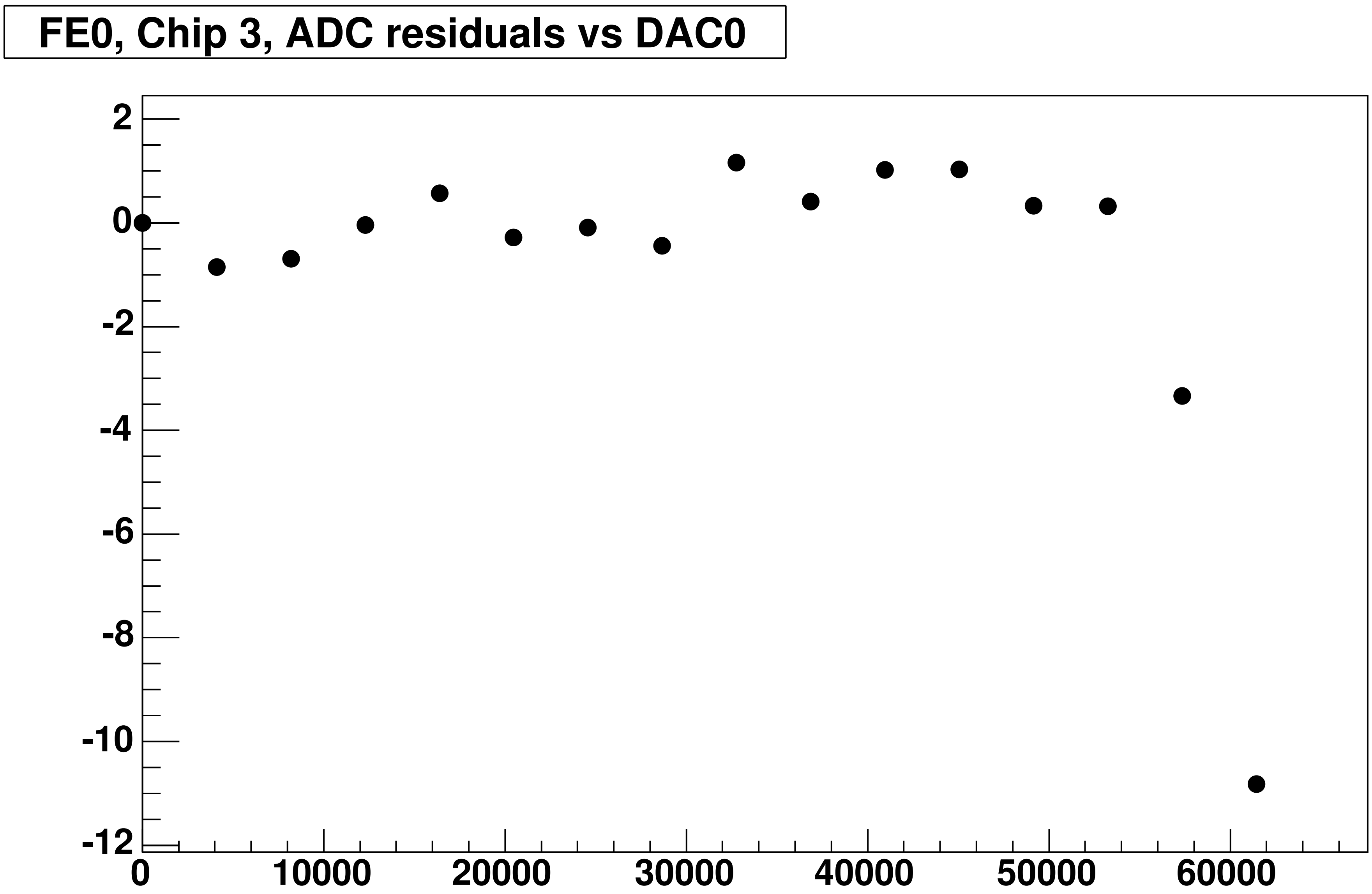
FE0, Chip 2, ADC residuals vs DAC1

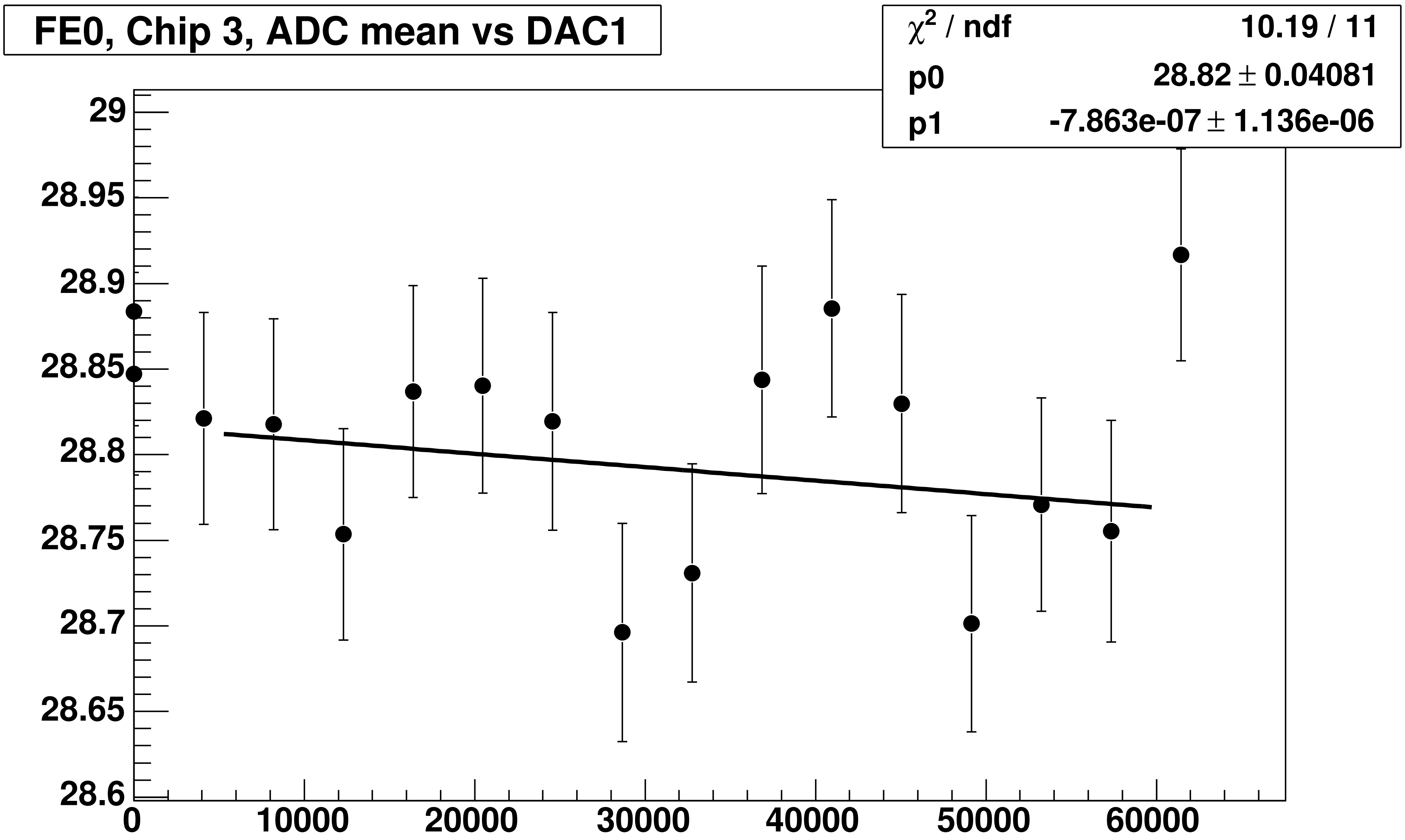


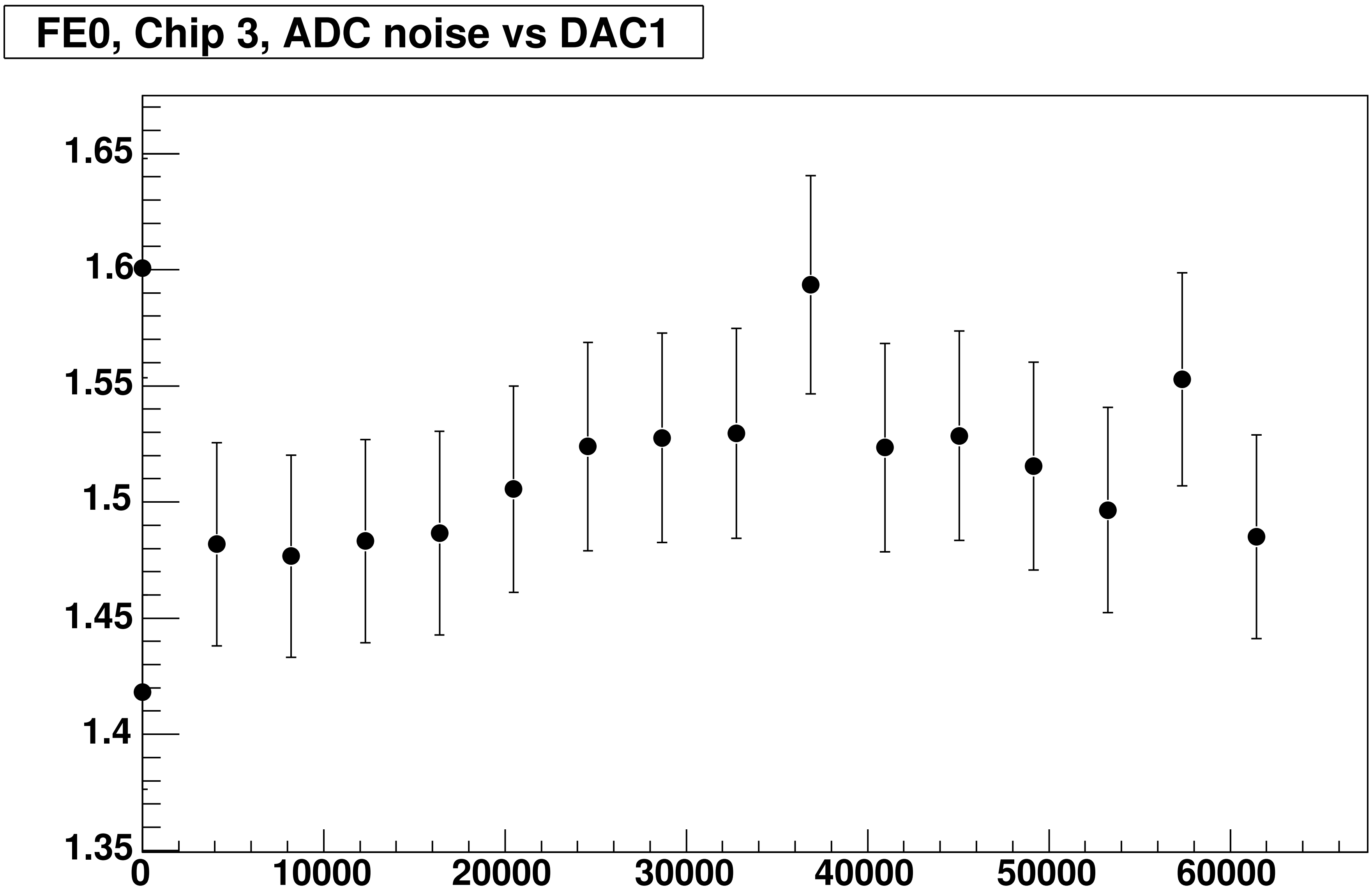


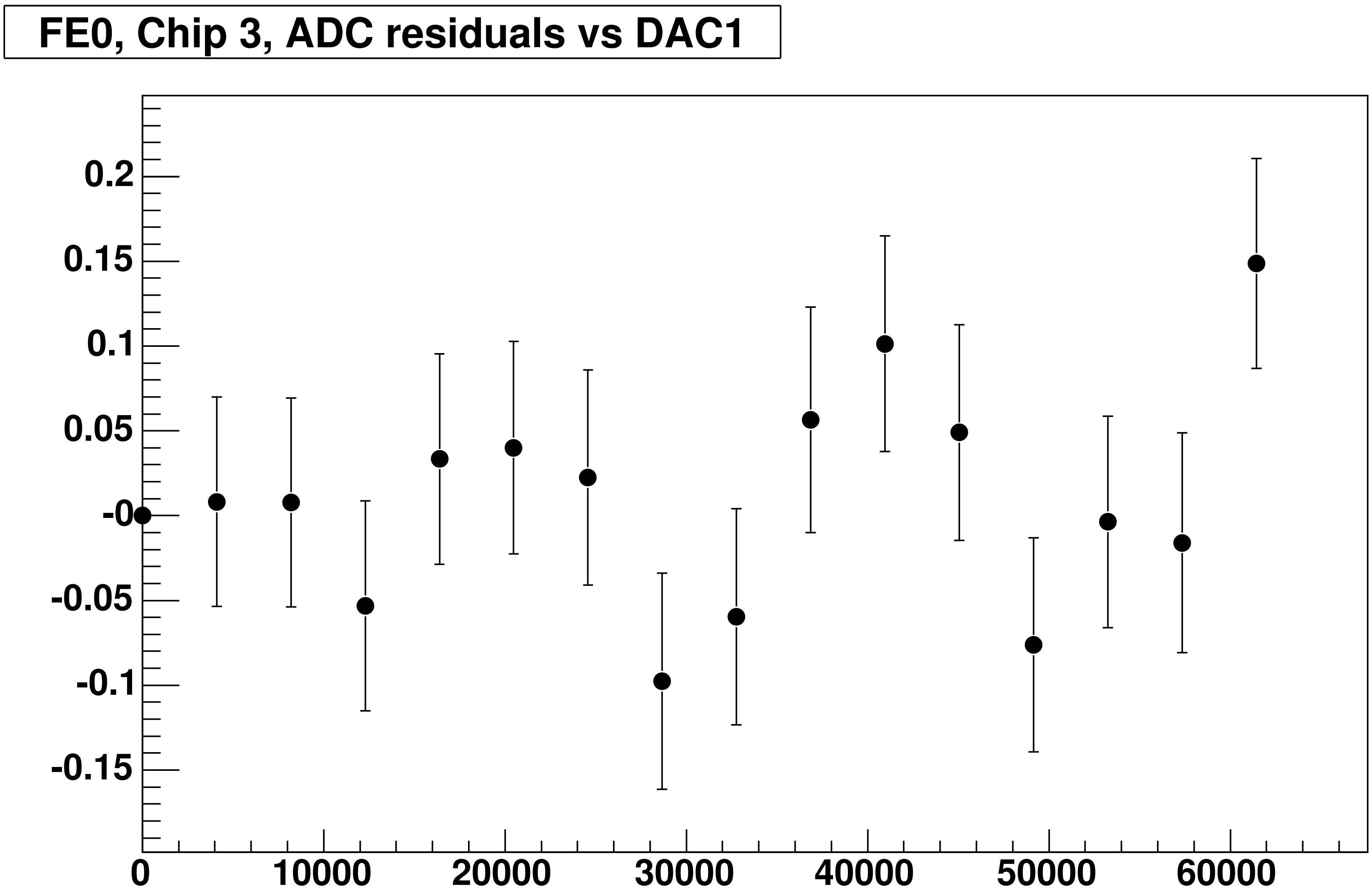
FE0, Chip 3, ADC mean vs DAC0
χ² / ndf 2016 / 11
p0 29.54 ± 0.04202
p1 0.4509 ± 1.35e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

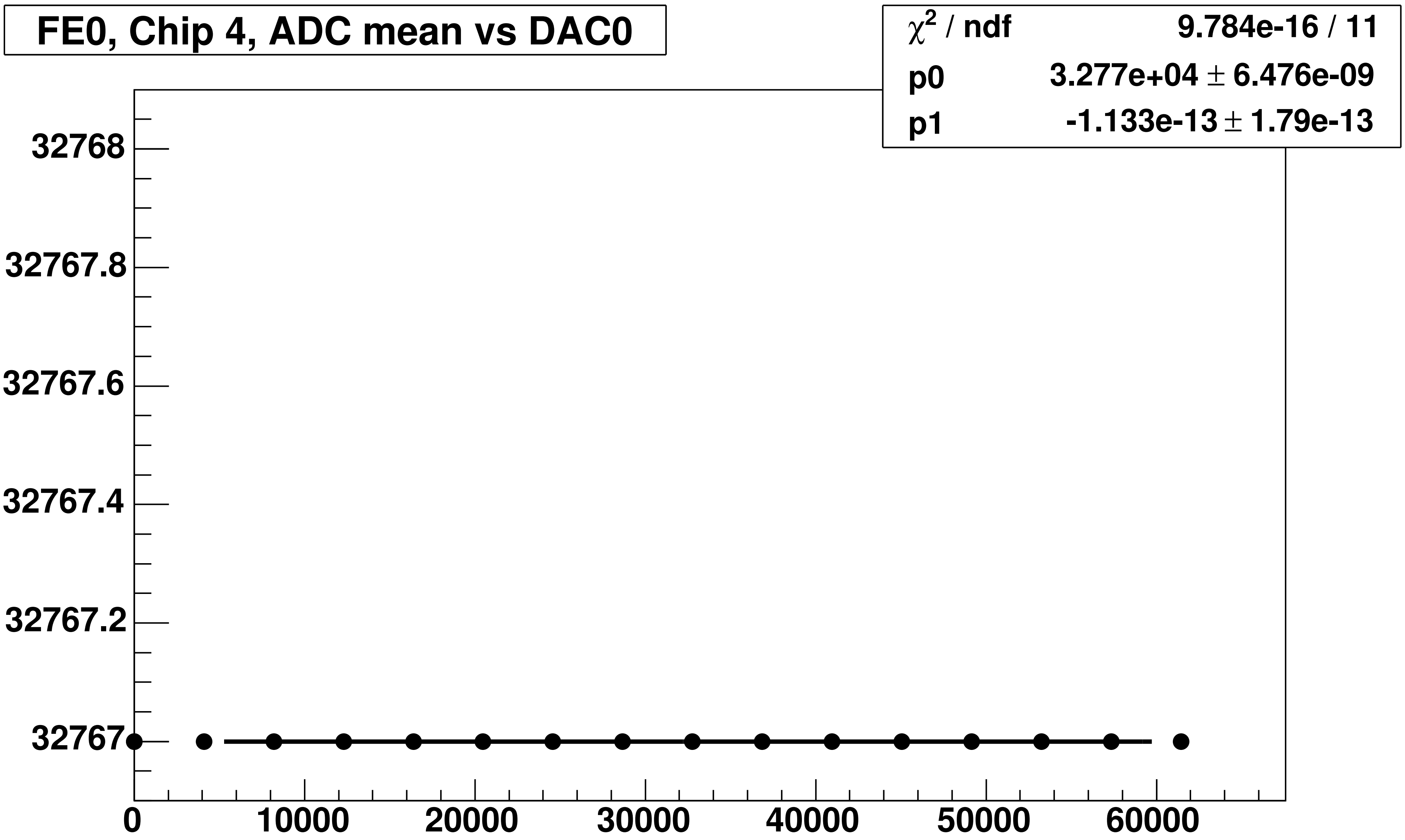

FE0, Chip 3, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE0, Chip 3, ADC residuals vs DAC0
2
0
-2
-4
-6
-8
-10
-12
0
10000
20000
30000
40000
50000
60000

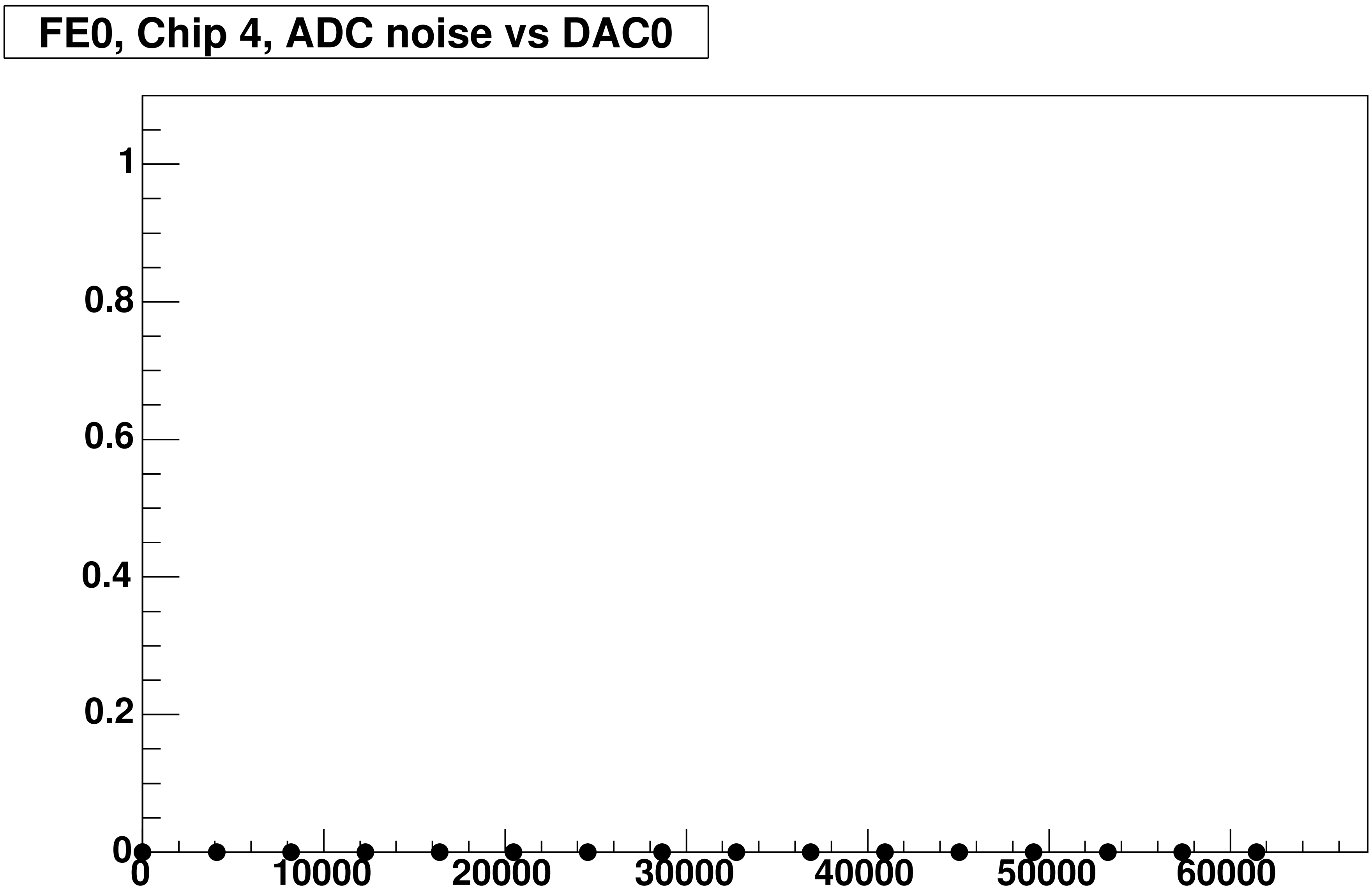

FE0, Chip 3, ADC mean vs DAC1
χ^2 / ndf 10.19 / 11
p0 28.82 ± 0.04081
p1 -7.863e-07 ± 1.136e-06
29
28.95
28.9
28.85
28.8
28.75
28.7
28.65
28.6
0
10000
20000
30000
40000
50000
60000

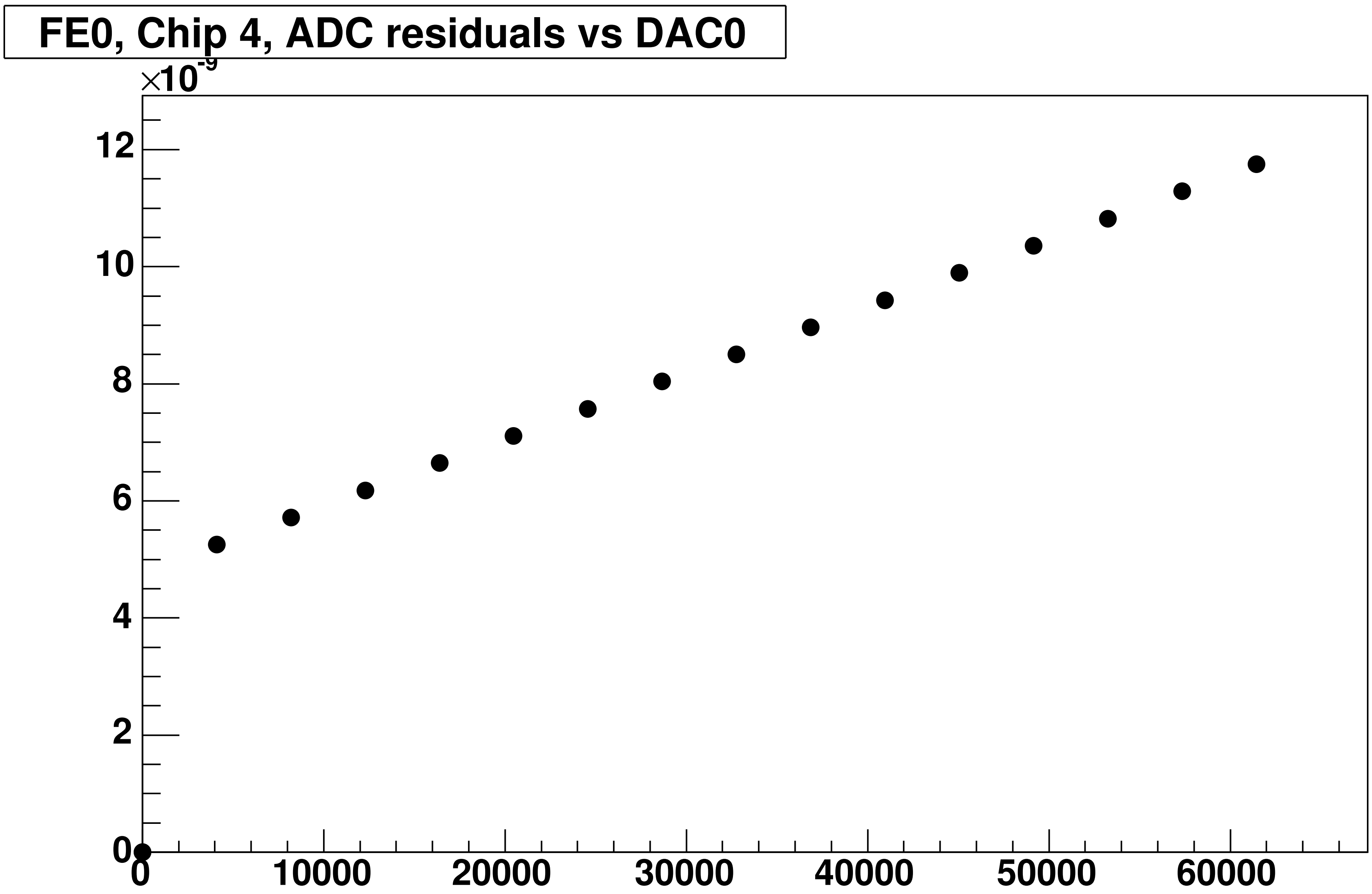

FE0, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

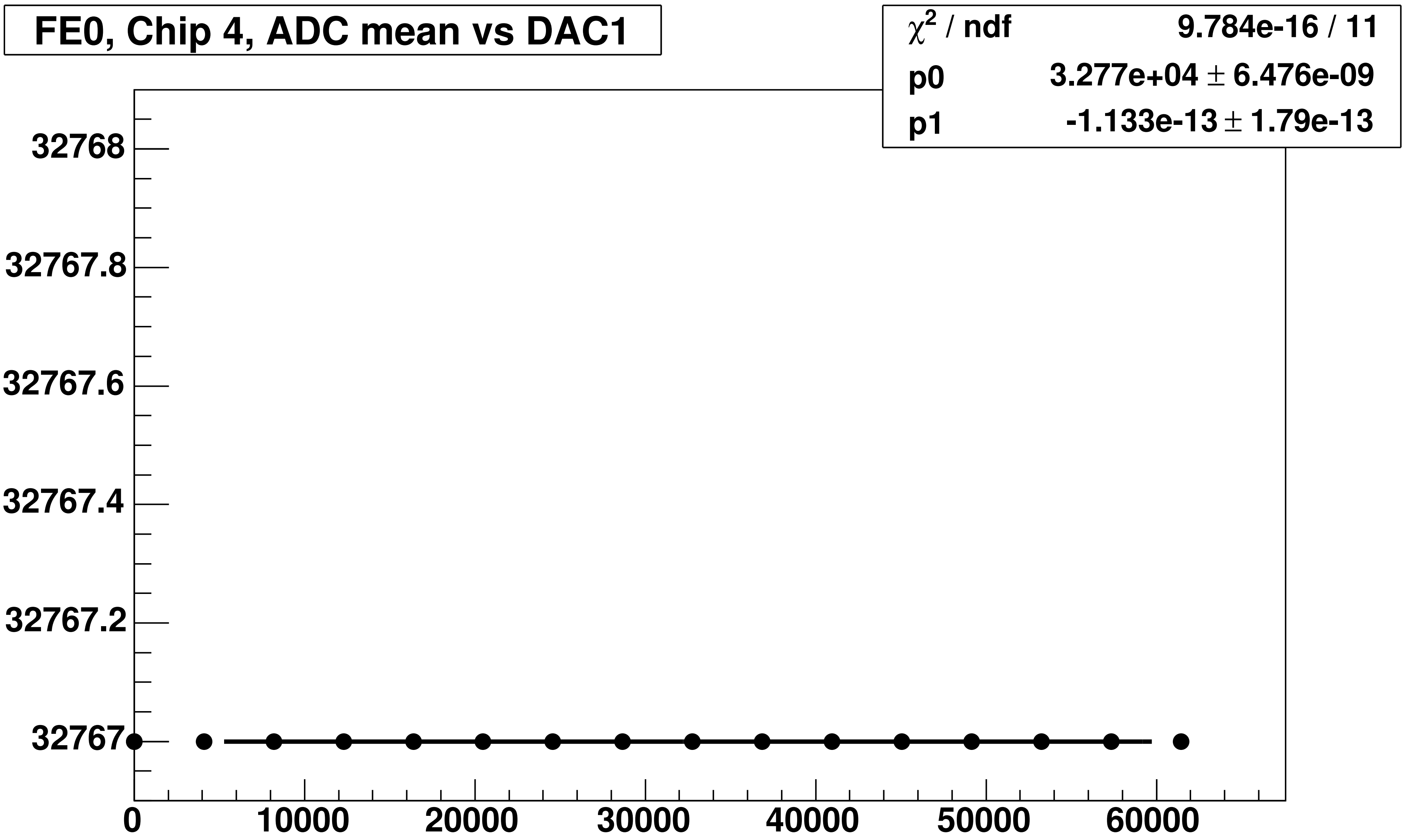


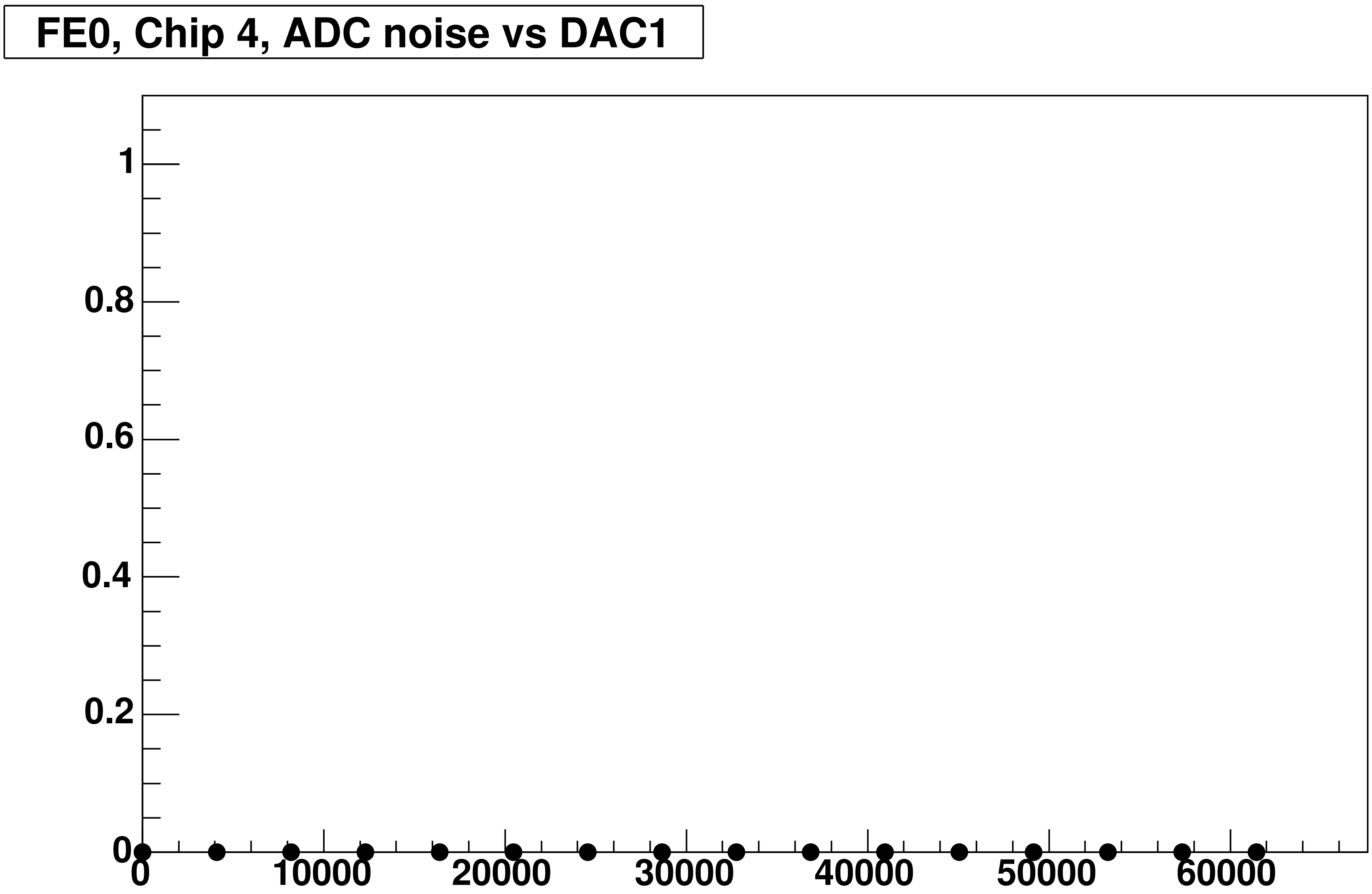
FE0, Chip 4, ADC mean vs DAC0
χ² / ndf 9.784e-16 / 11
p0 3.277e+04 ± 6.476e-09
p1 -1.133e-13 ± 1.79e-13
32768
32767.8
32767.6
32767.4
32767.2
32767
0
10000
20000
30000
40000
50000
60000

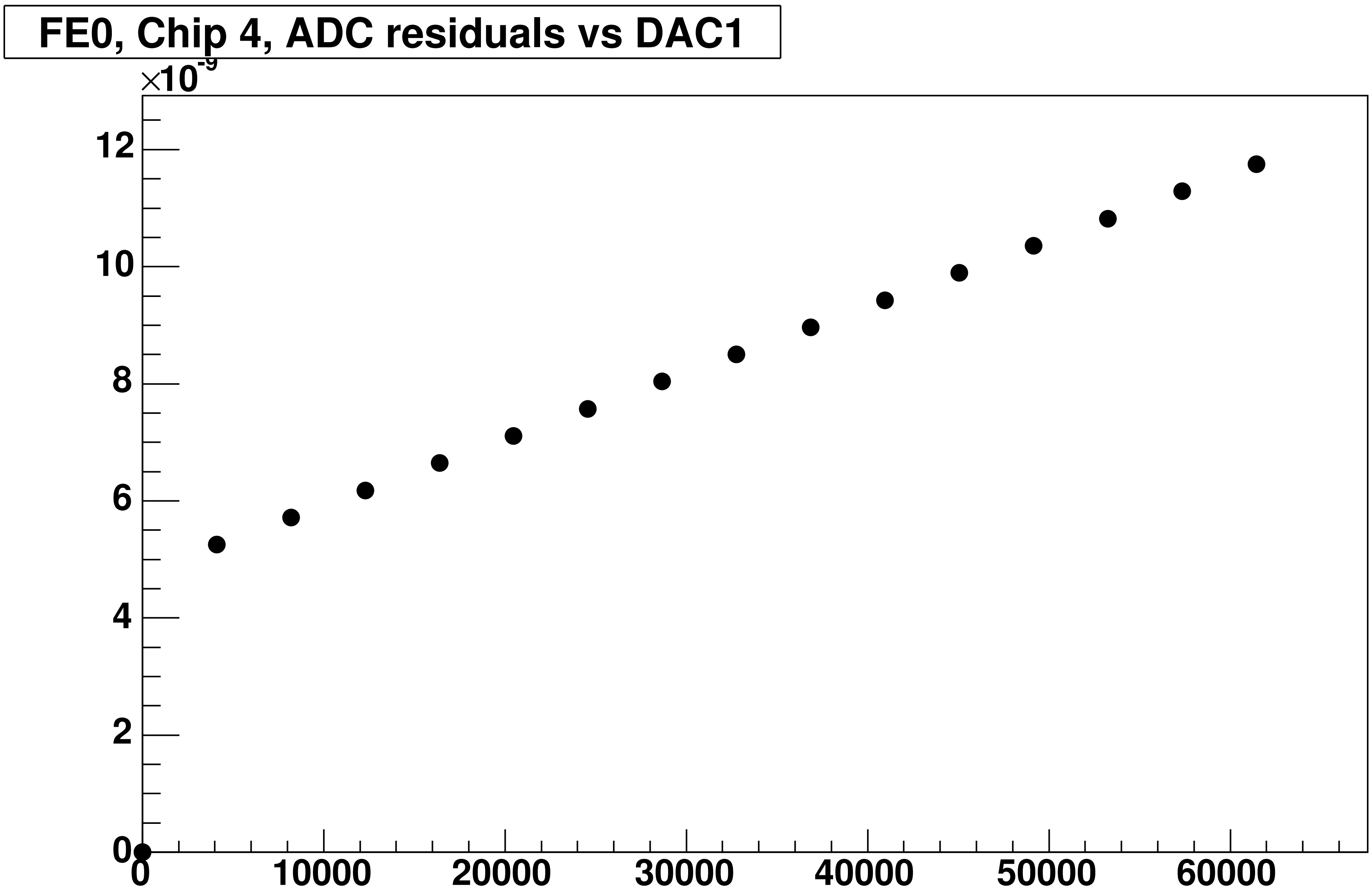

FE0, Chip 4, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000



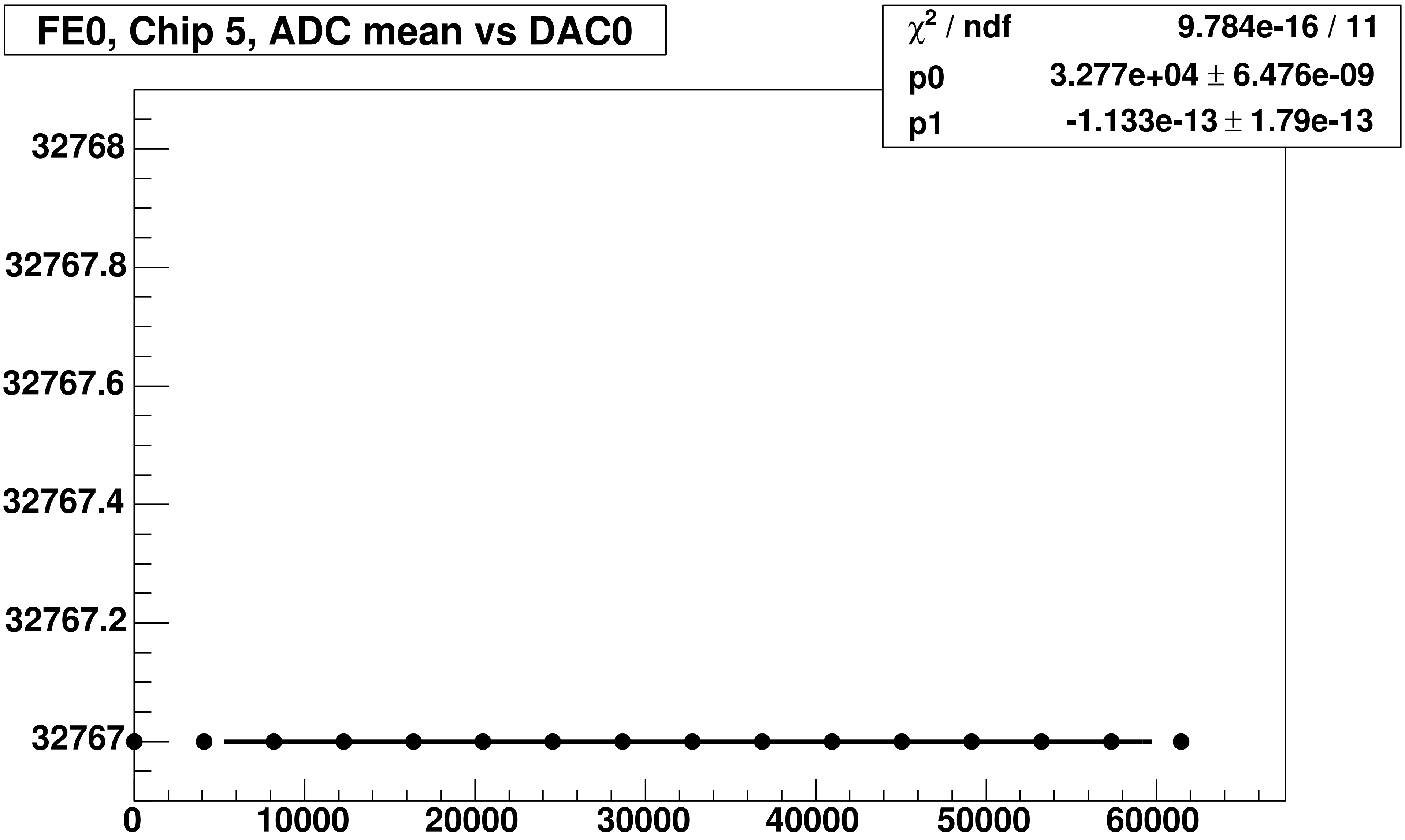
FE0, Chip 4, ADC residuals vs DAC0
×10^-9
0
2
4
6
8
10
12
0
10000
20000
30000
40000
50000
60000


FE0, Chip 4, ADC mean vs DAC1
χ2 / ndf 9.784e-16 / 11
p0 3.277e+04 ± 6.476e-09
p1 -1.133e-13 ± 1.79e-13
32768
32767.8
32767.6
32767.4
32767.2
32767
0
10000
20000
30000
40000
50000
60000

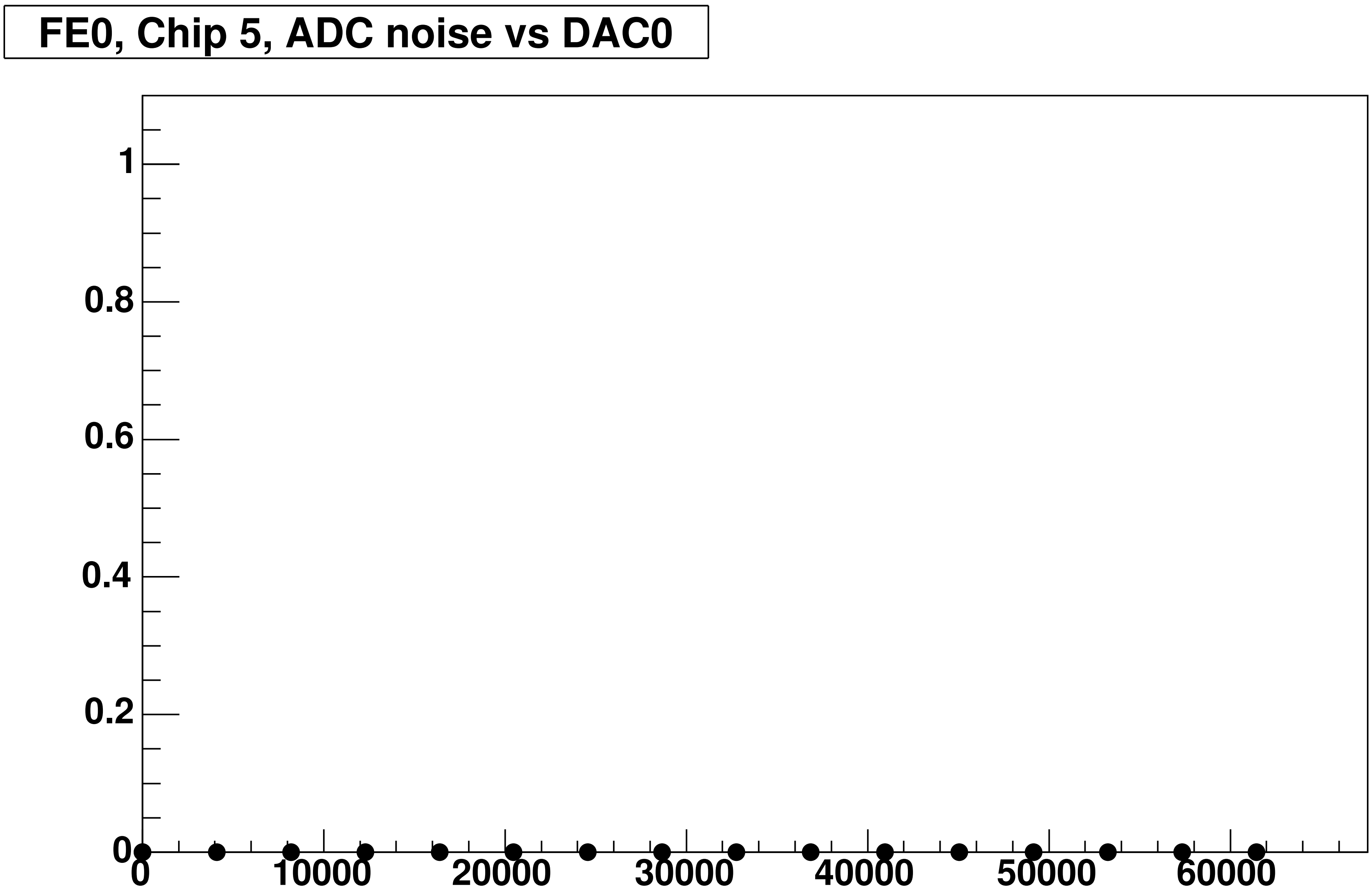

FE0, Chip 4, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000

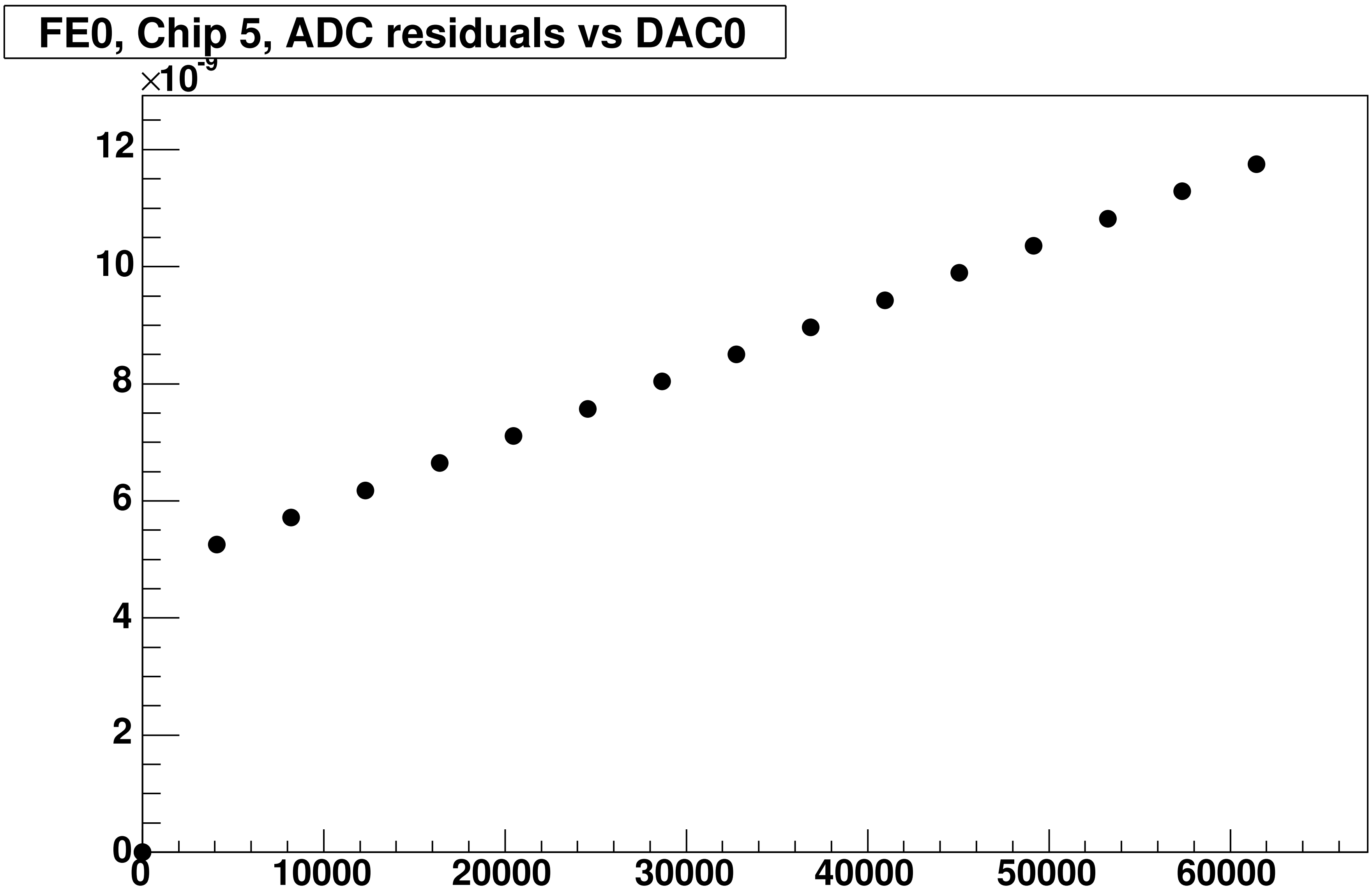


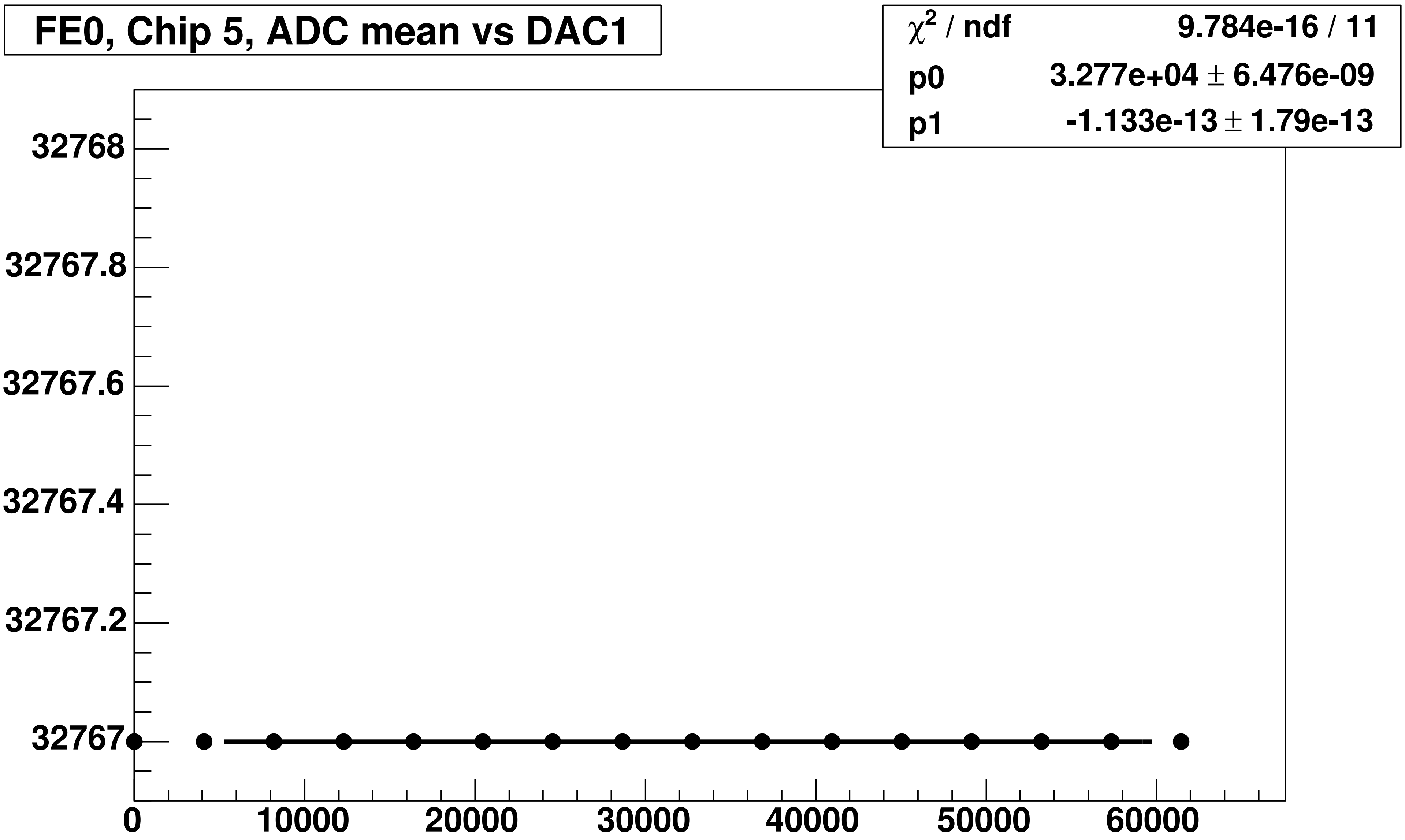
FE0, Chip 4, ADC residuals vs DAC1
×10^-9
0
2
4
6
8
10
12
0
10000
20000
30000
40000
50000
60000

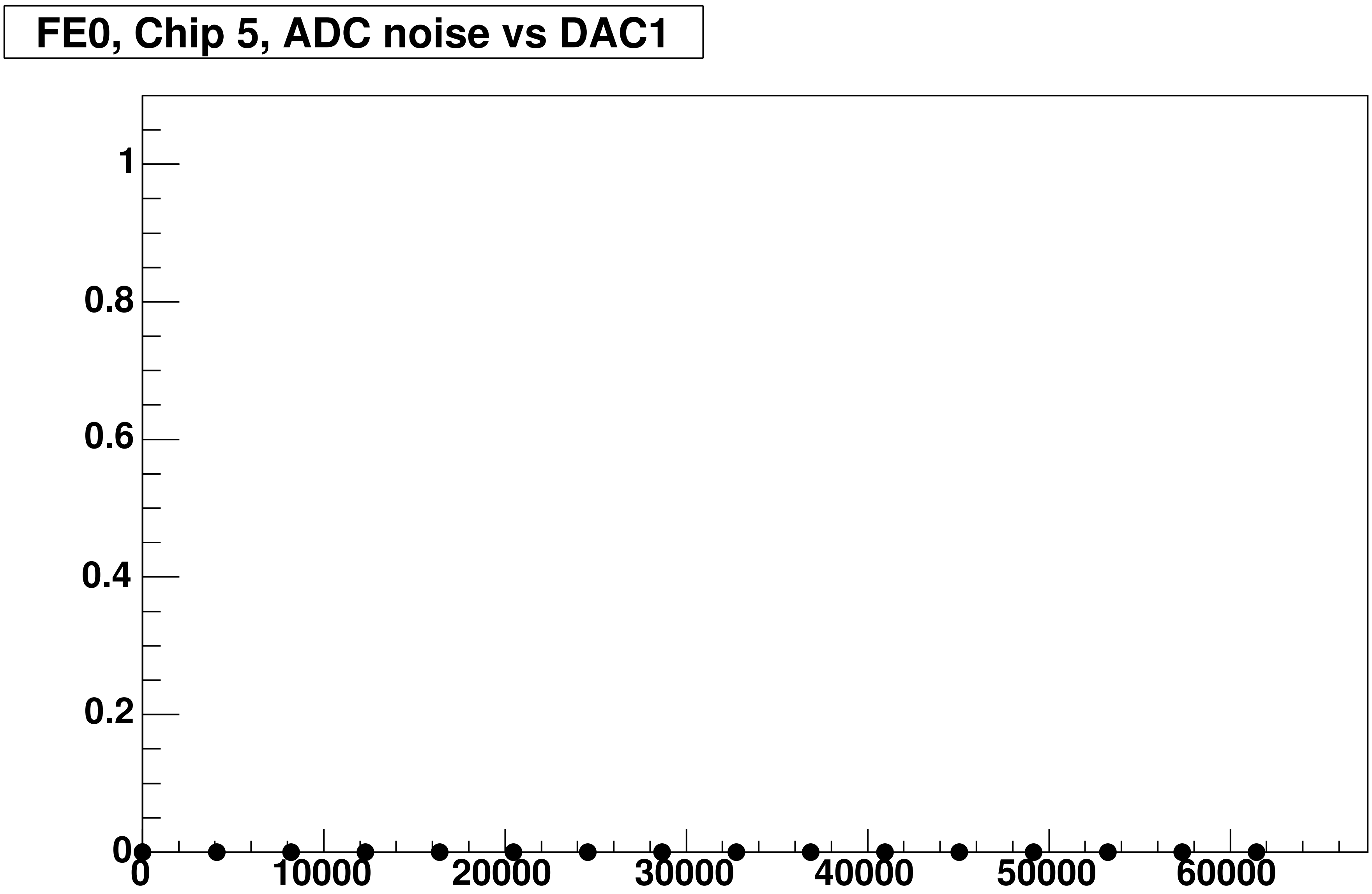


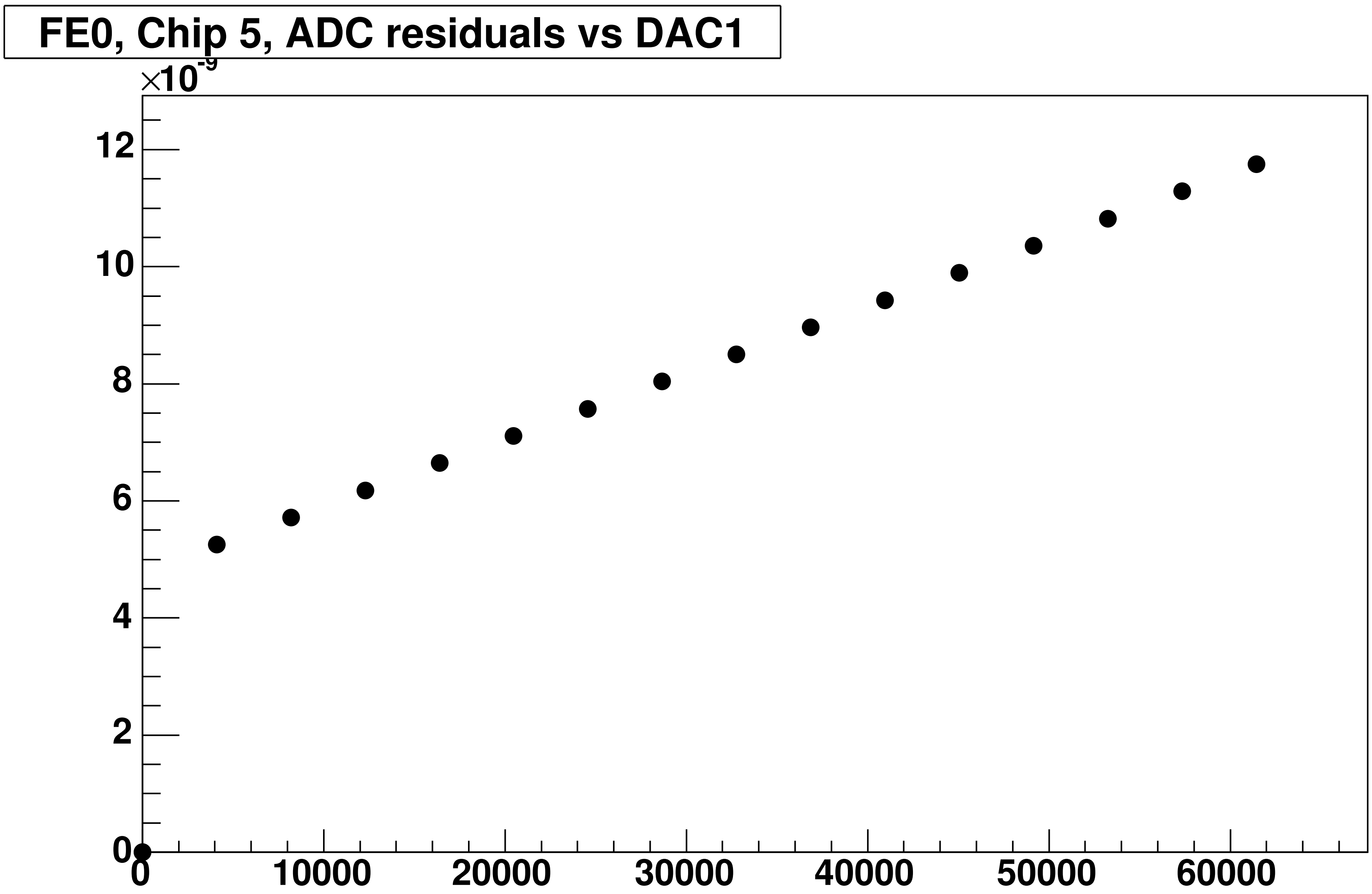
FE0, Chip 5, ADC mean vs DAC0
χ^2 / ndf 9.784e-16 / 11
p0 3.277e+04 ± 6.476e-09
p1 -1.133e-13 ± 1.79e-13
32768
32767.8
32767.6
32767.4
32767.2
32767
0
10000
20000
30000
40000
50000
60000

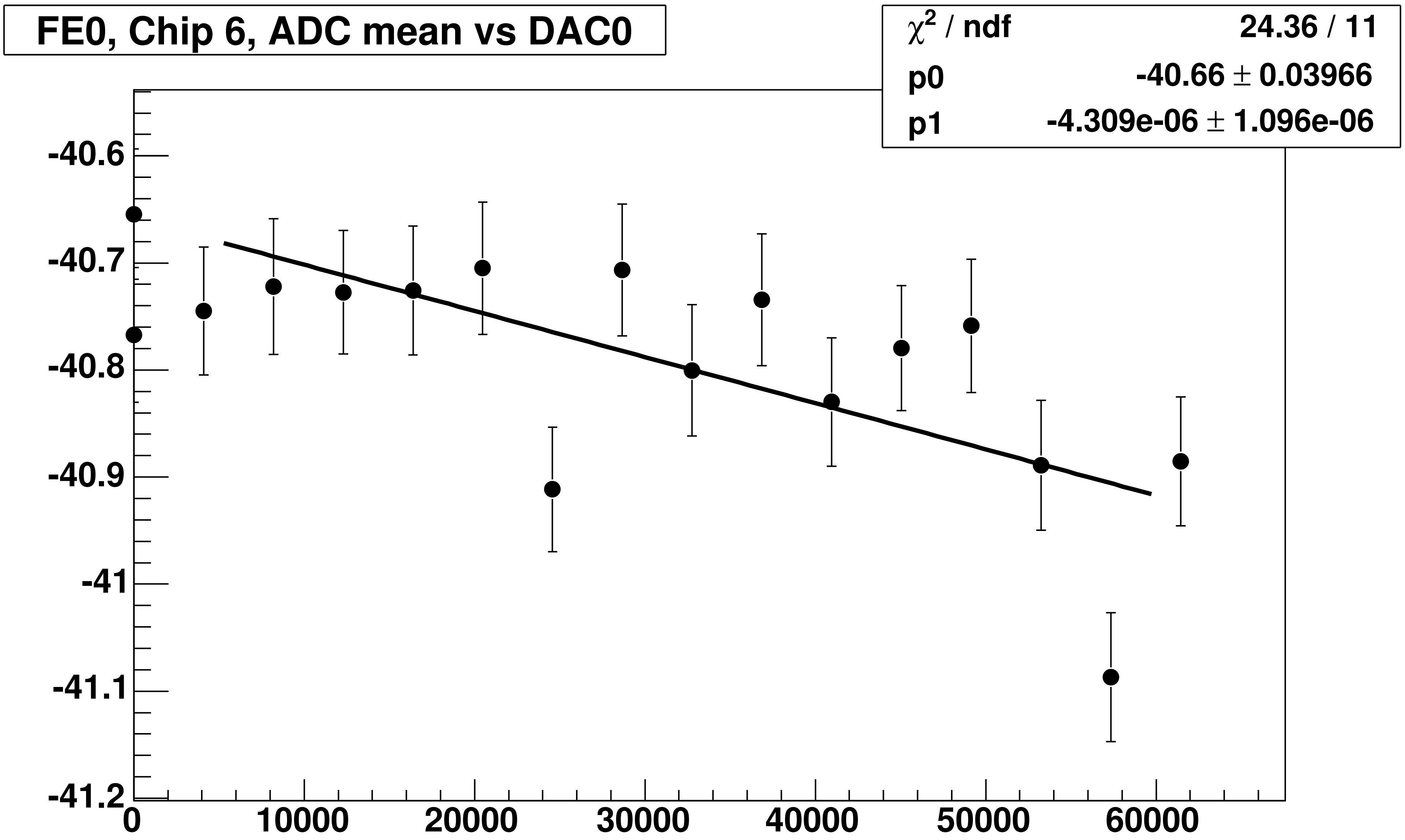

FE0, Chip 5, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000

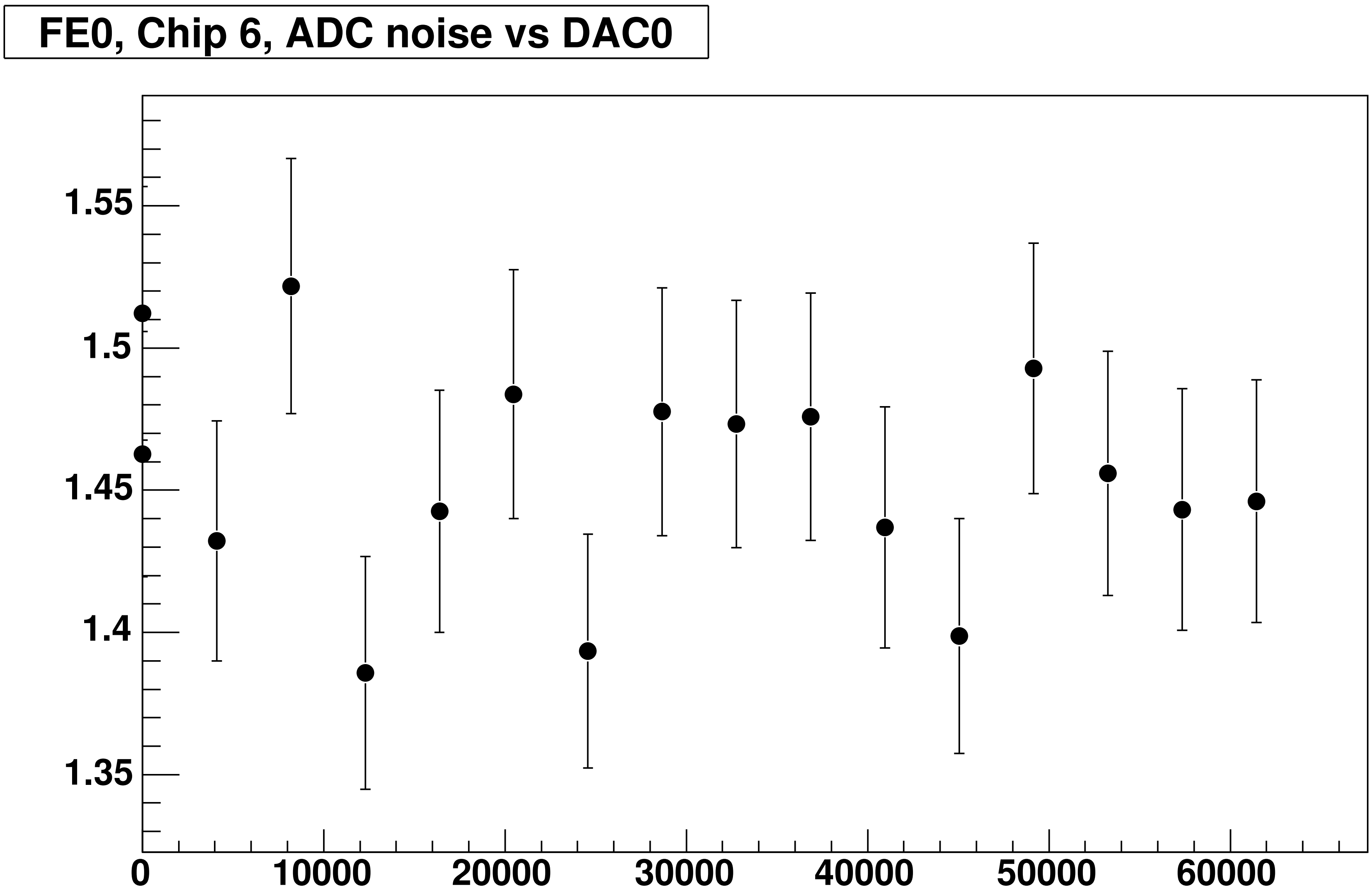

FE0, Chip 5, ADC residuals vs DAC0
$\times 10^{-9}$
0
2
4
6
8
10
12
0
10000
20000
30000
40000
50000
60000

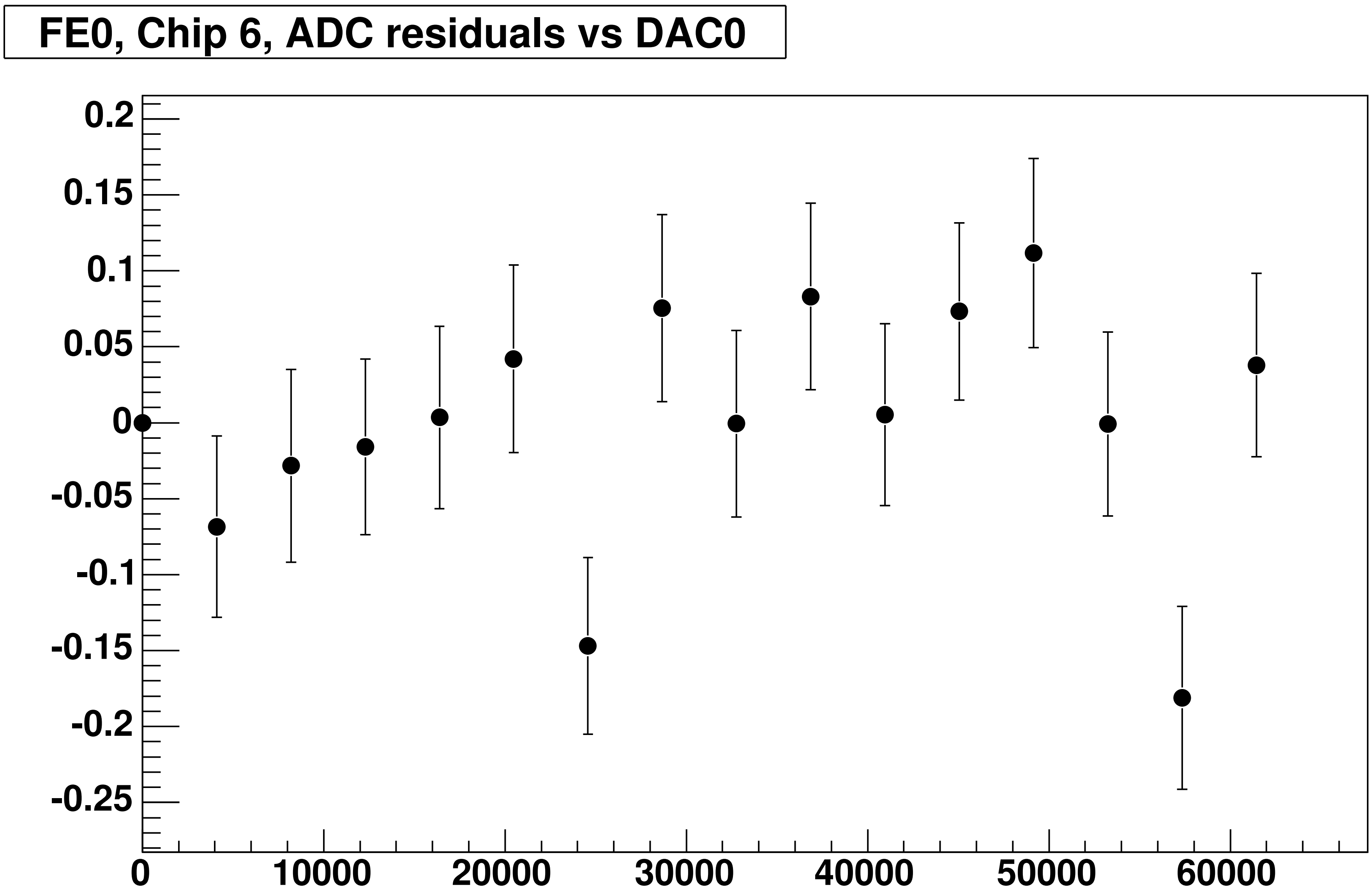

FE0, Chip 5, ADC mean vs DAC1
χ^2 / ndf 9.784e-16 / 11
p0 3.277e+04 ± 6.476e-09
p1 -1.133e-13 ± 1.79e-13
32768
32767.8
32767.6
32767.4
32767.2
32767
0
10000
20000
30000
40000
50000
60000

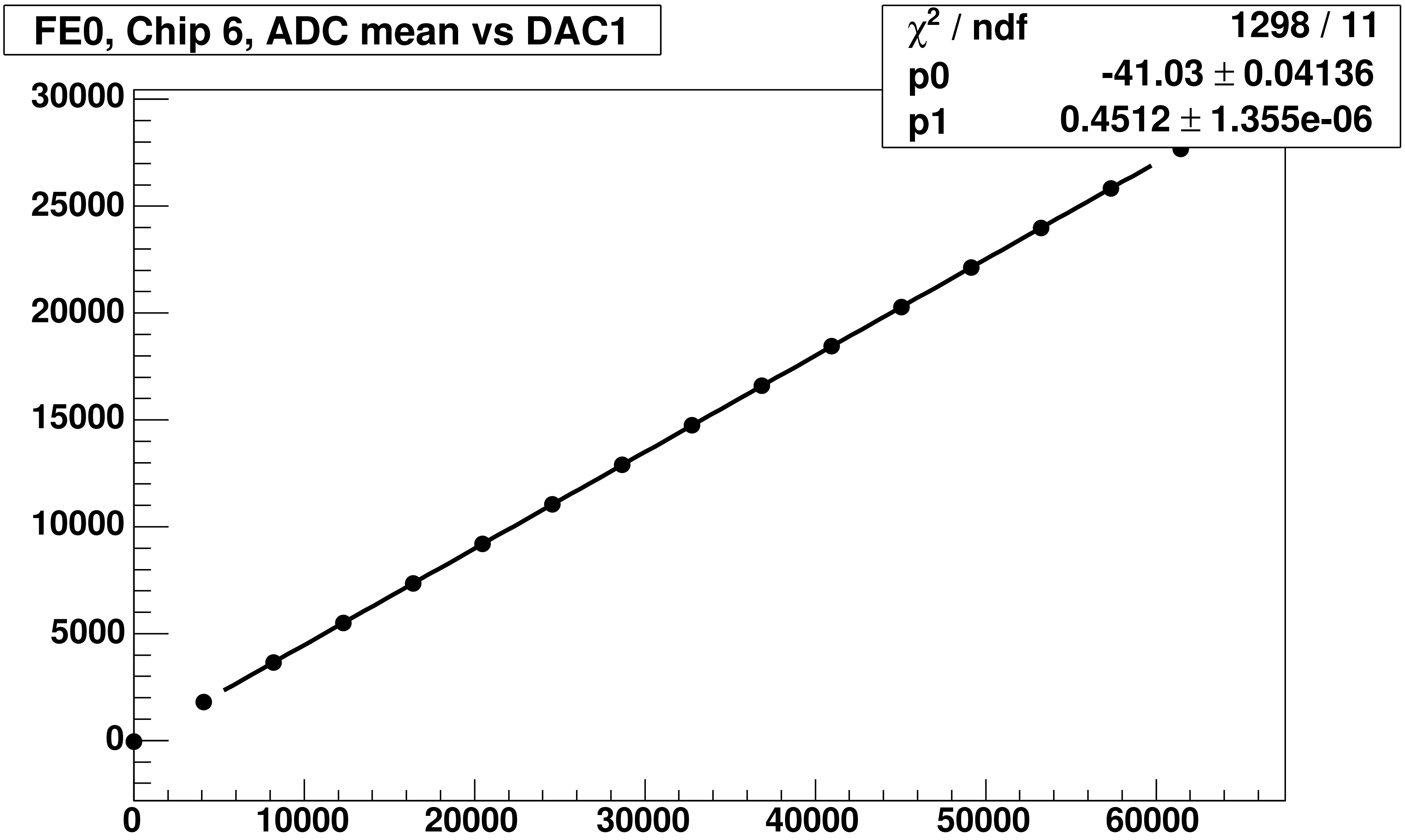

FE0, Chip 5, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000


FE0, Chip 5, ADC residuals vs DAC1
×10⁻⁹
12
10
8
6
4
2
0
0
10000
20000
30000
40000
50000
60000

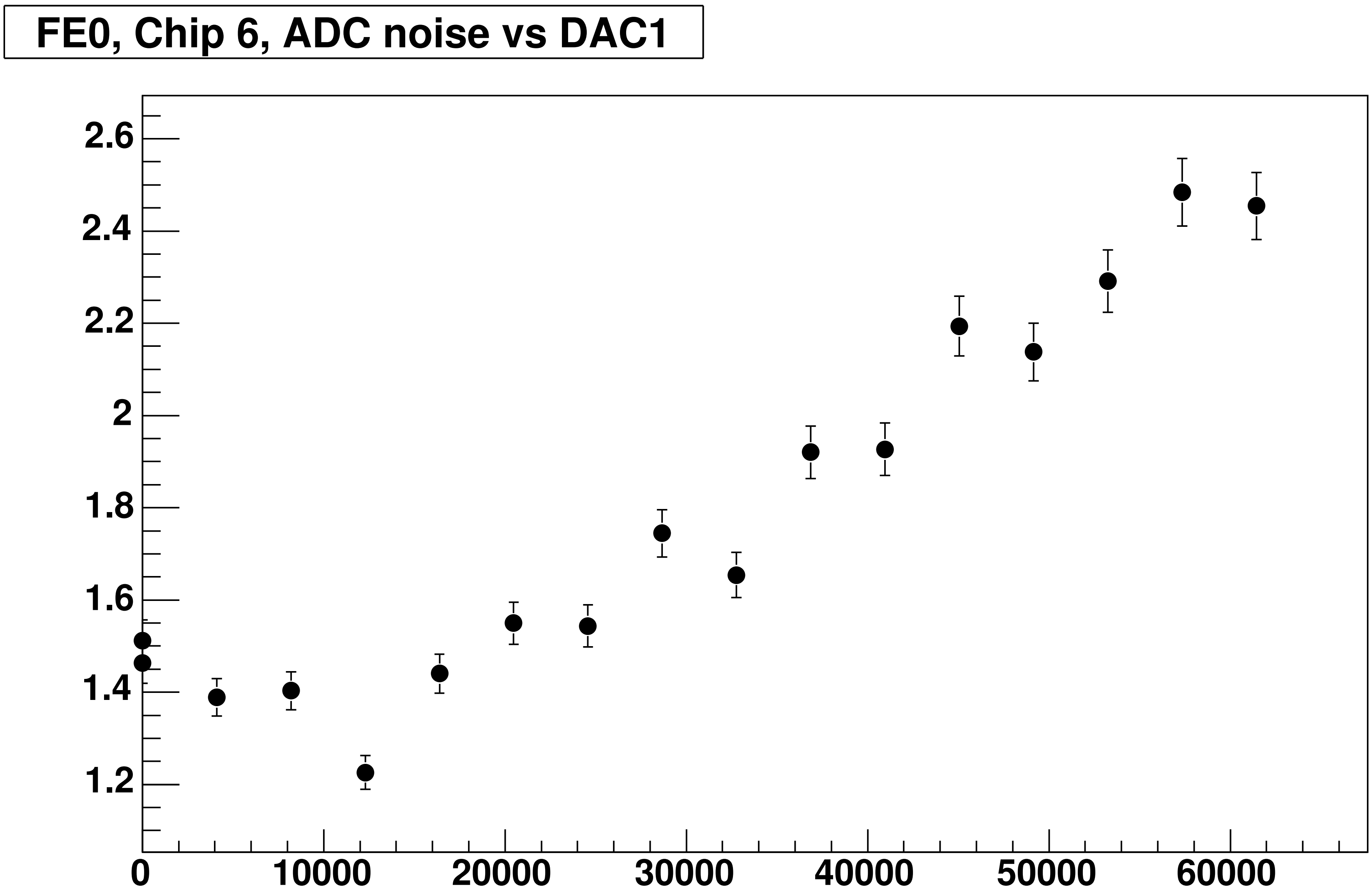

FE0, Chip 6, ADC mean vs DAC0
χ^2 / ndf 24.36 / 11
p0 -40.66 ± 0.03966
p1 -4.309e-06 ± 1.096e-06
-40.6
-40.7
-40.8
-40.9
-41
-41.1
-41.2
0
10000
20000
30000
40000
50000
60000


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

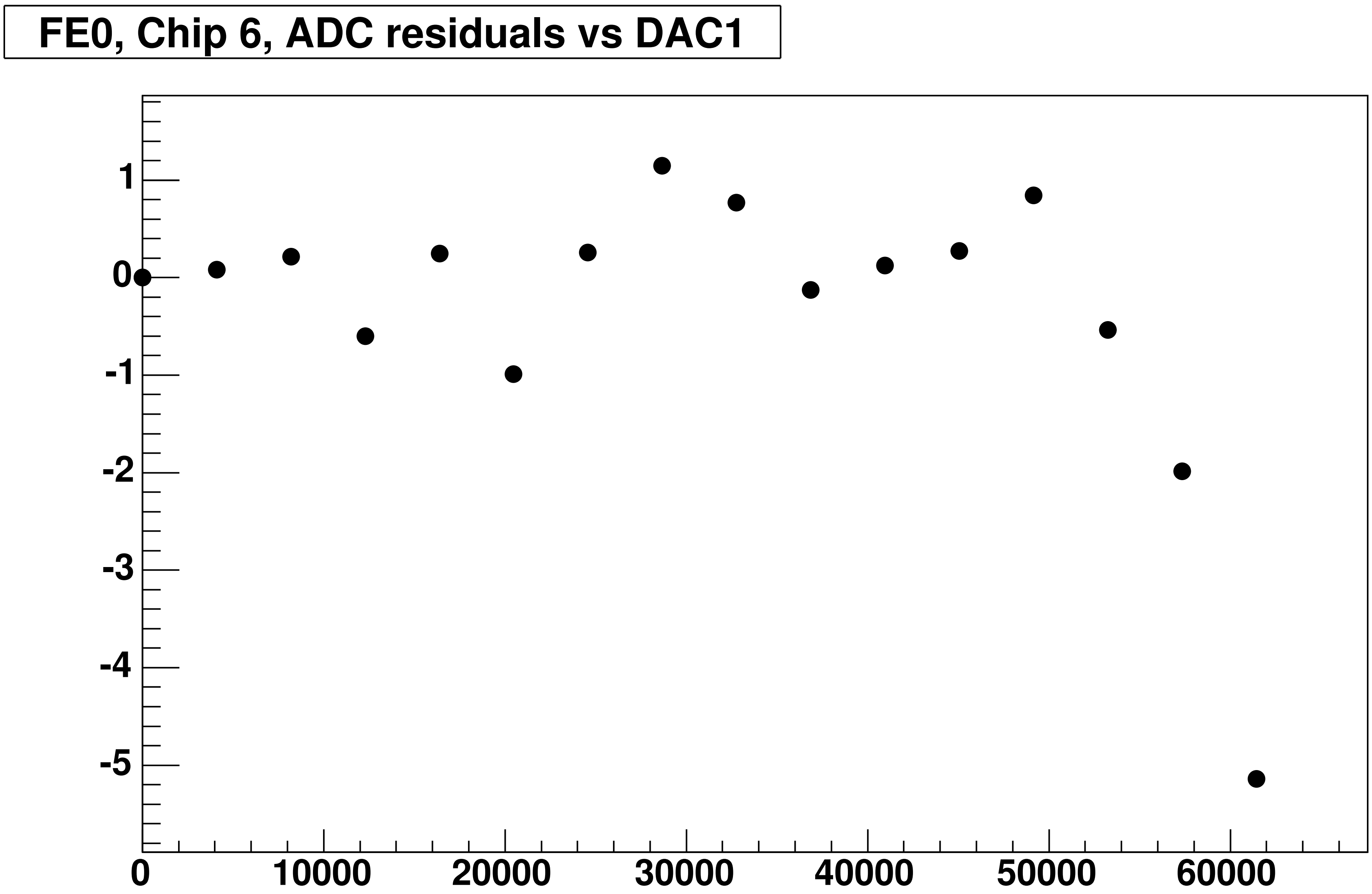

FE0, Chip 6, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

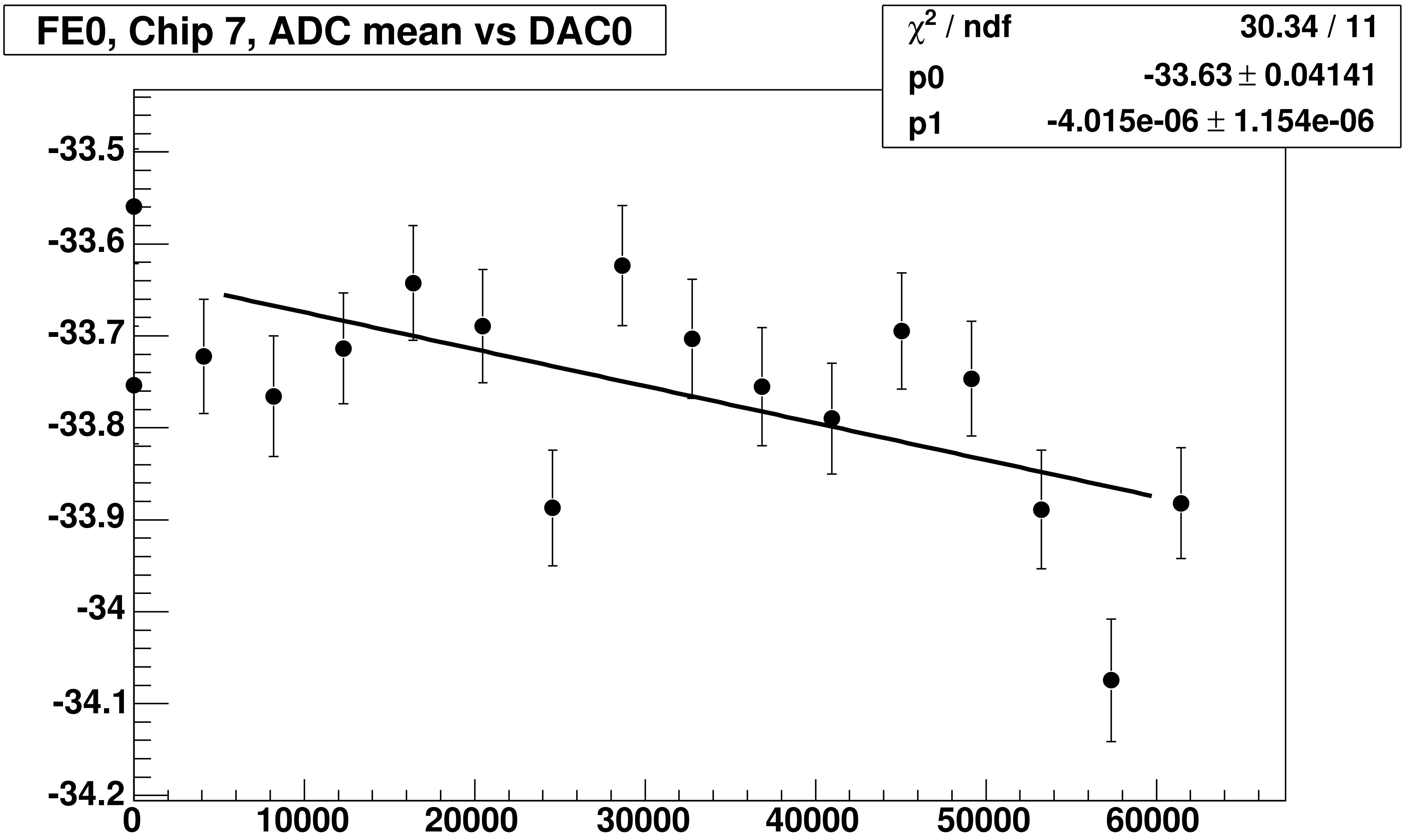


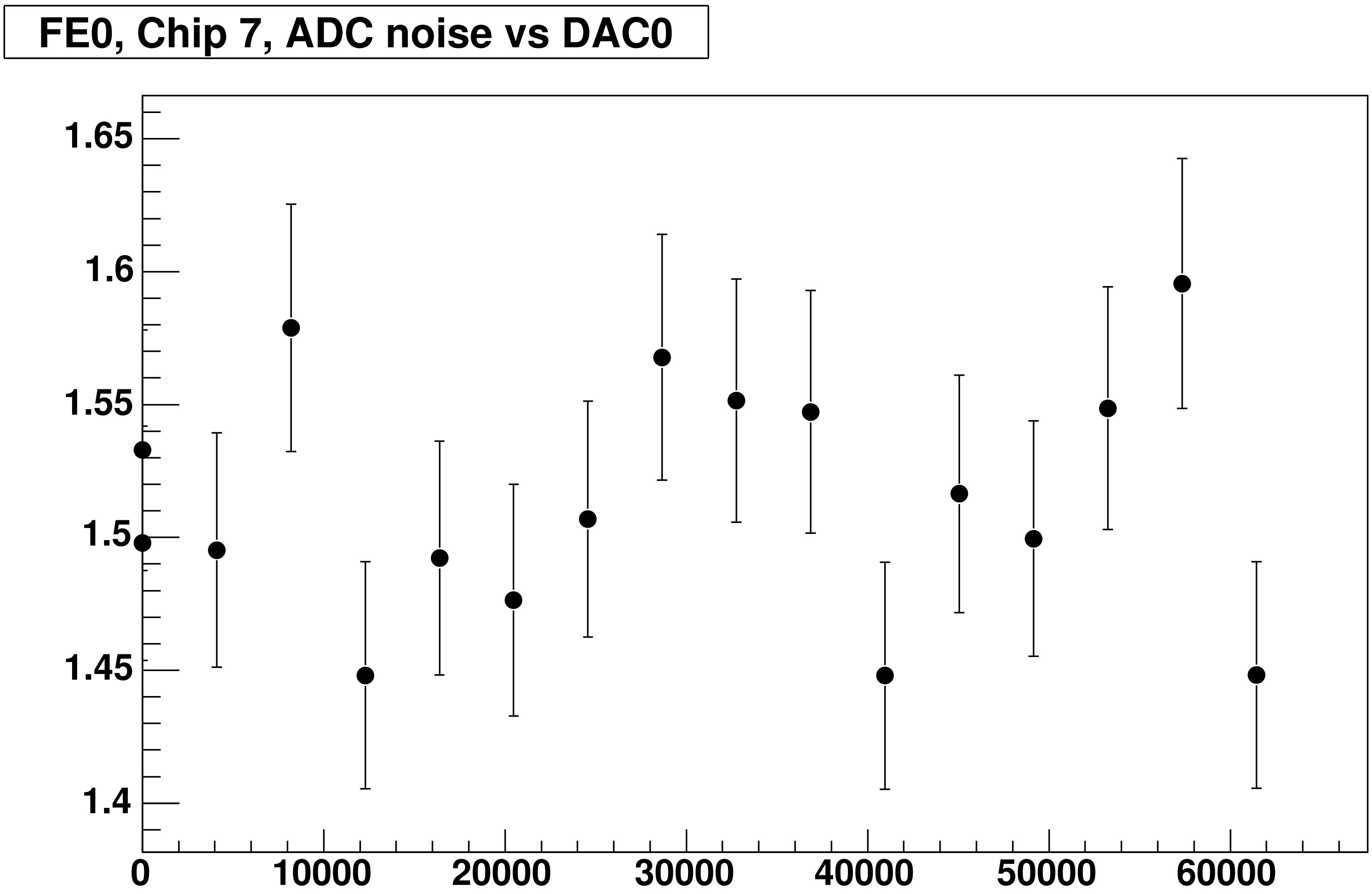
FE0, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1298 / 11
p0 -41.03 ± 0.04136
p1 0.4512 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

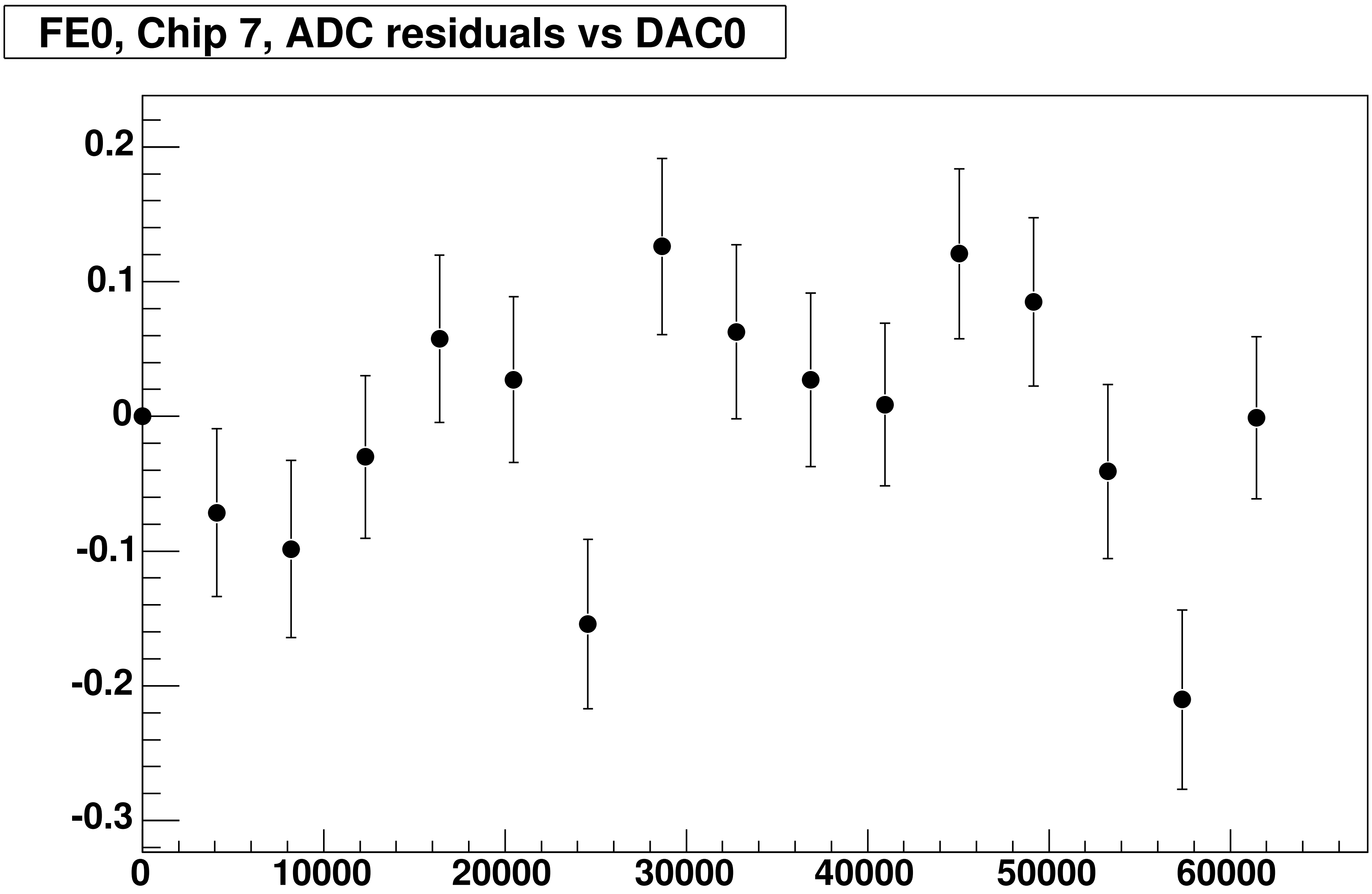


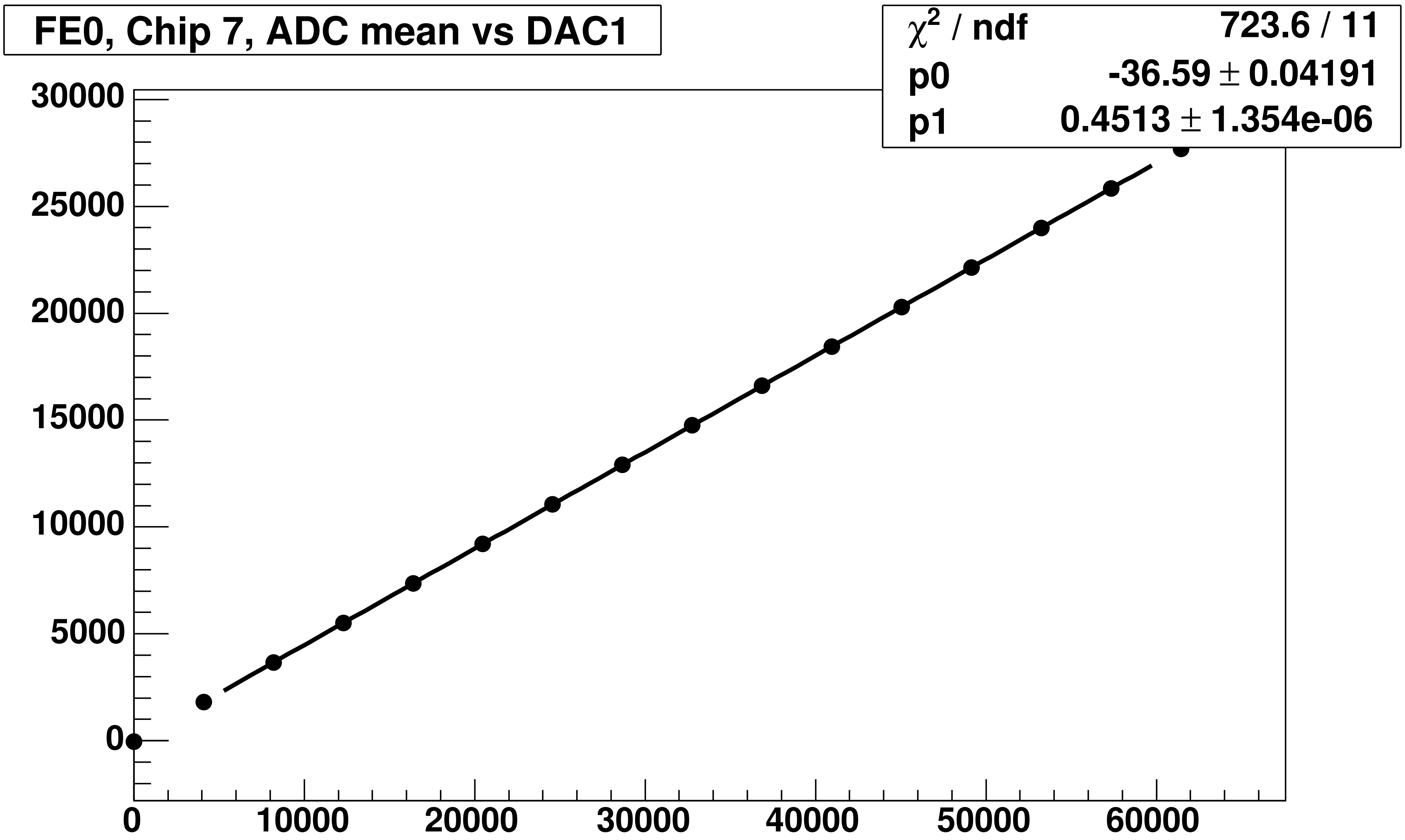
FE0, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

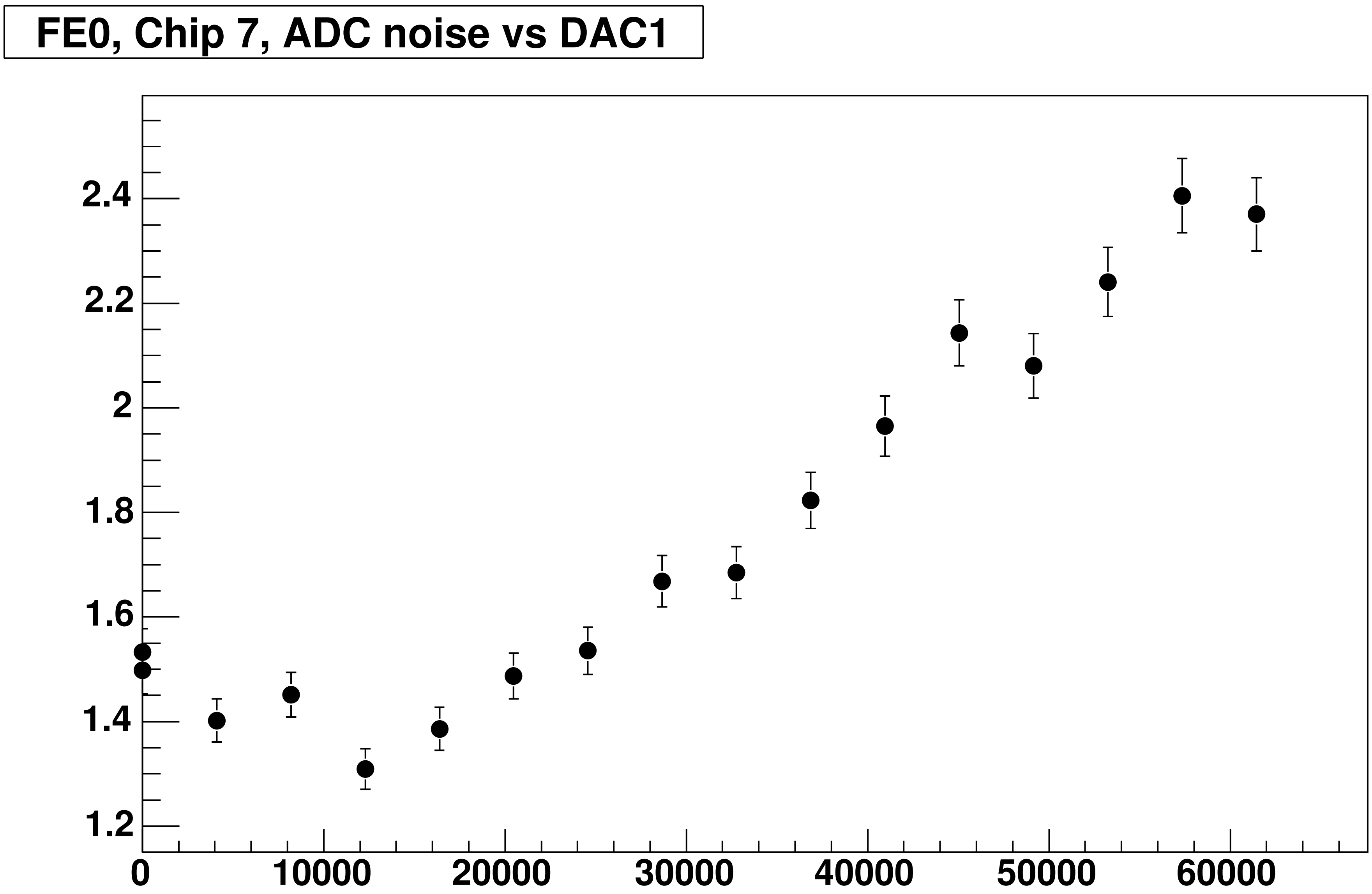

FE0, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

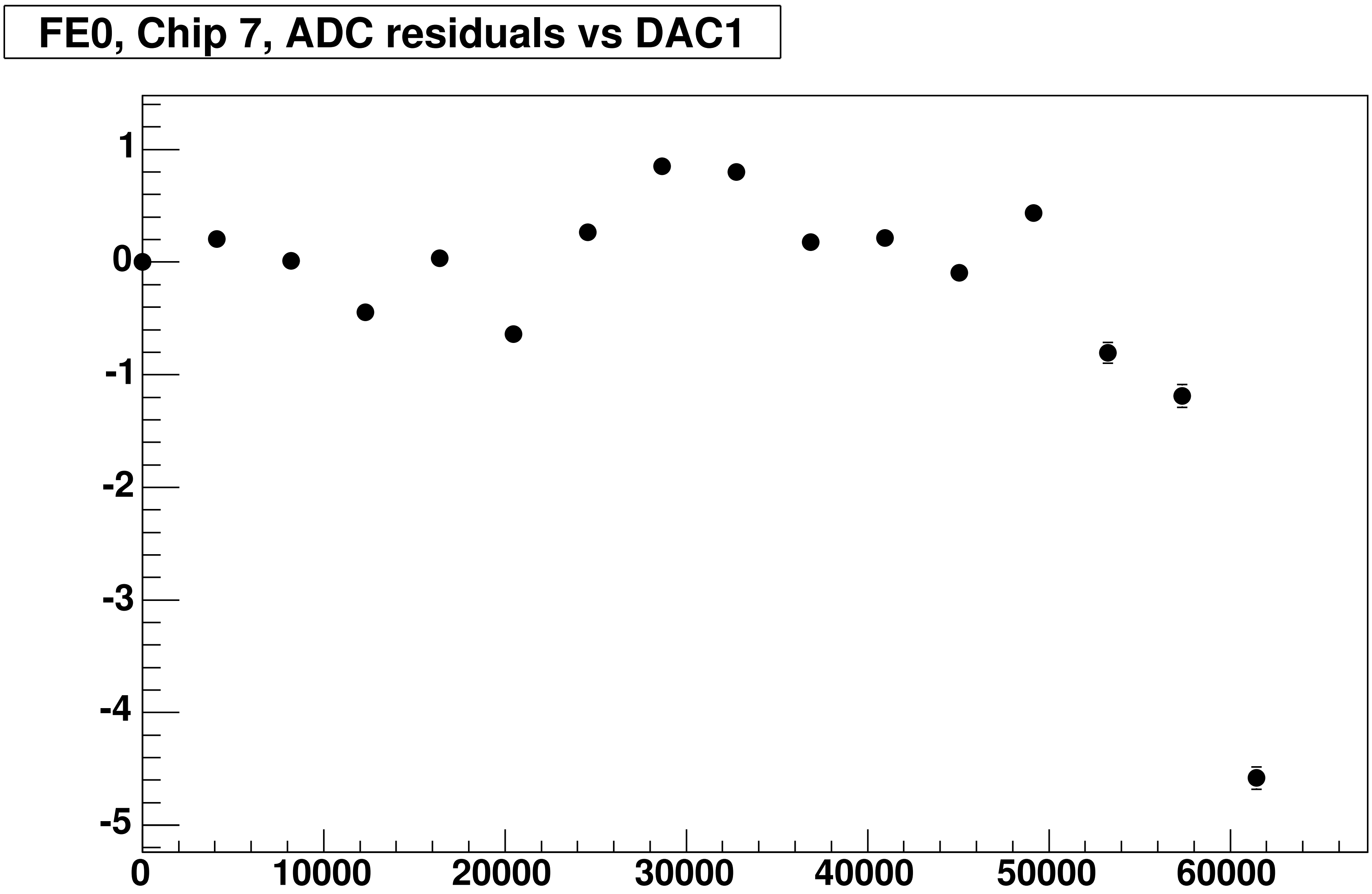

FE0, Chip 7, ADC mean vs DAC0
χ^2 / ndf 30.34 / 11
p0 -33.63 ± 0.04141
p1 -4.015e-06 ± 1.154e-06
-33.5
-33.6
-33.7
-33.8
-33.9
-34
-34.1
-34.2
0
10000
20000
30000
40000
50000
60000

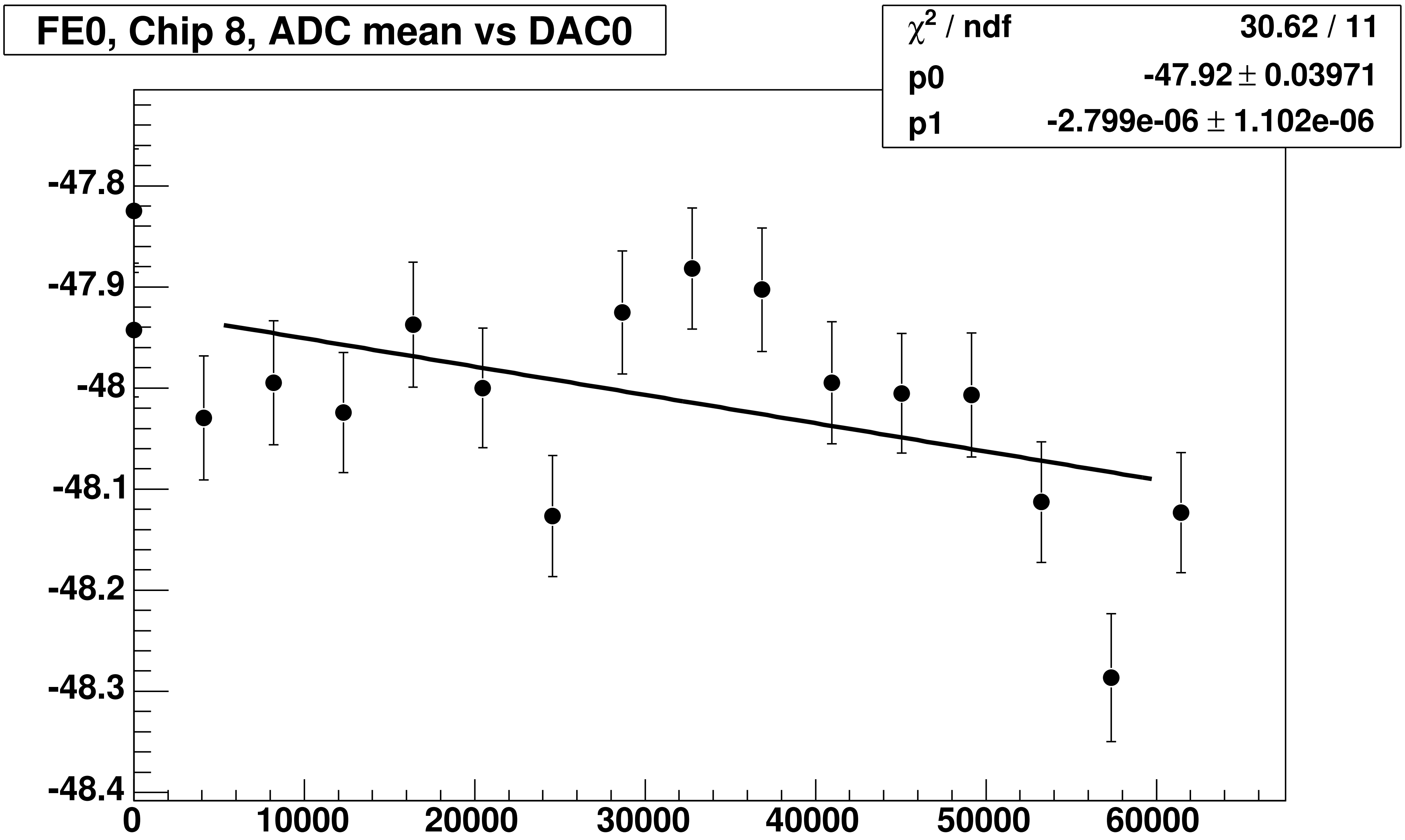

FE0, Chip 7, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


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

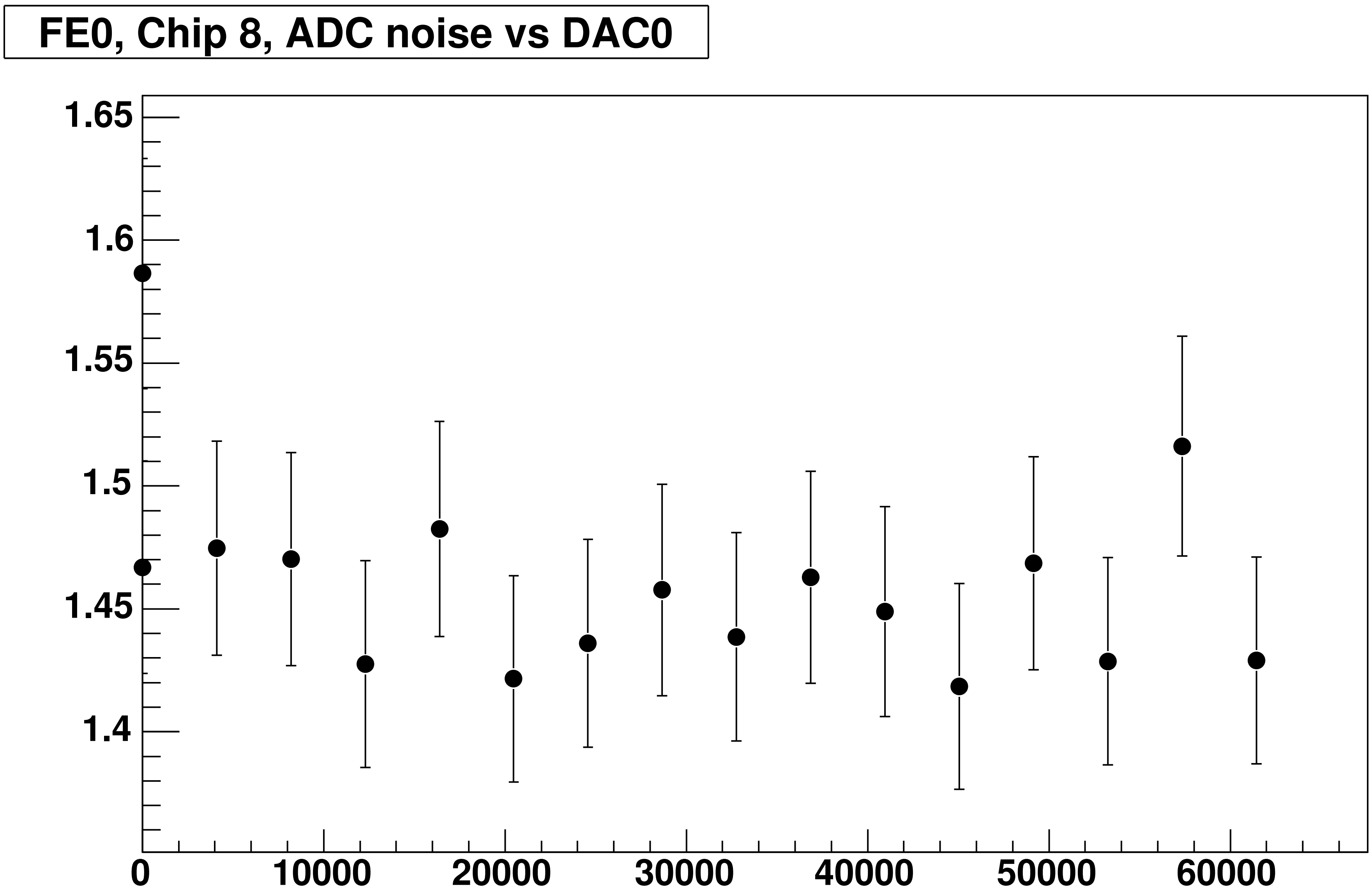

FE0, Chip 7, ADC mean vs DAC1
χ² / ndf 723.6 / 11
p0 -36.59 ± 0.04191
p1 0.4513 ± 1.354e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

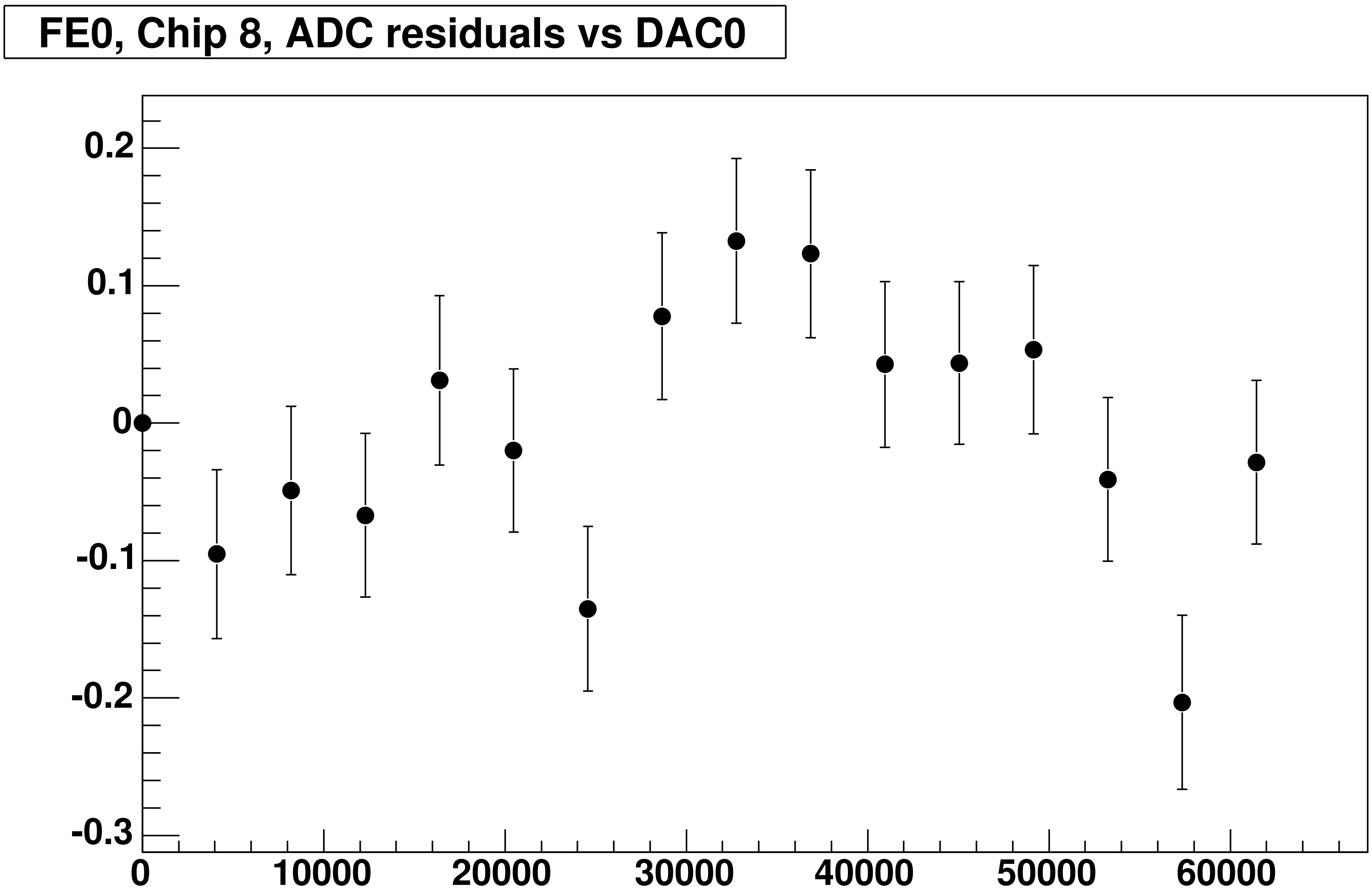

FE0, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

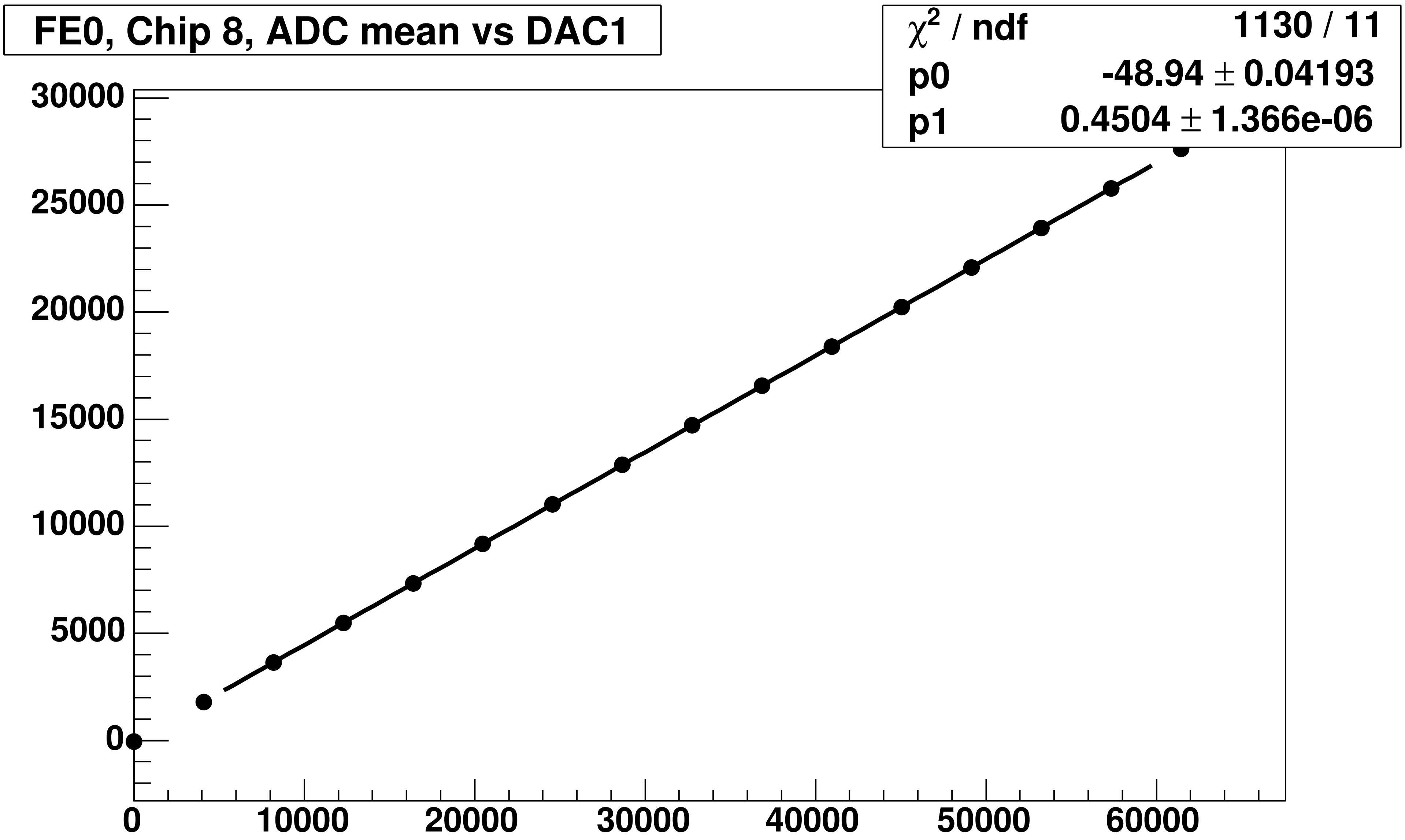

FE0, Chip 7, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

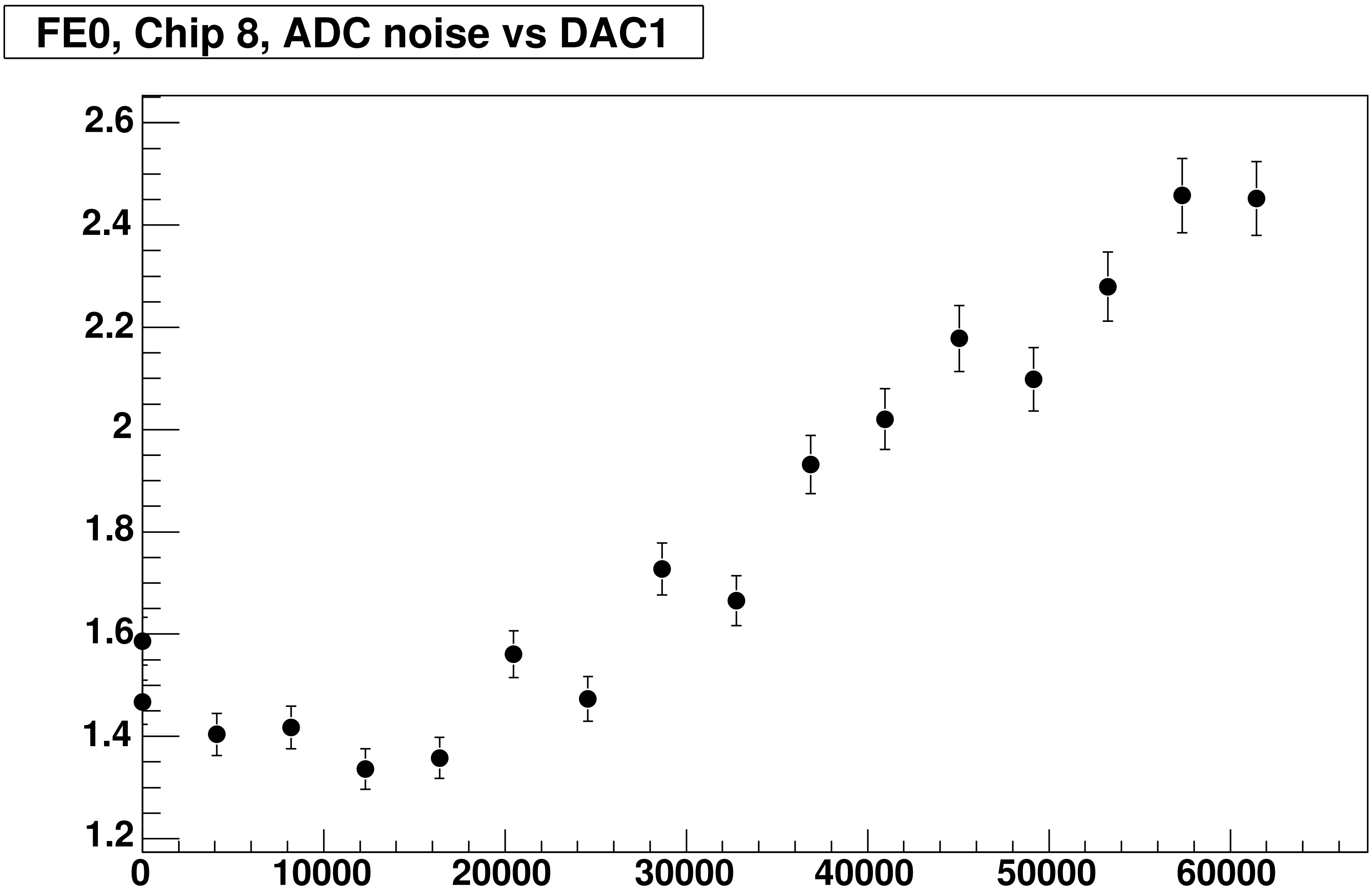


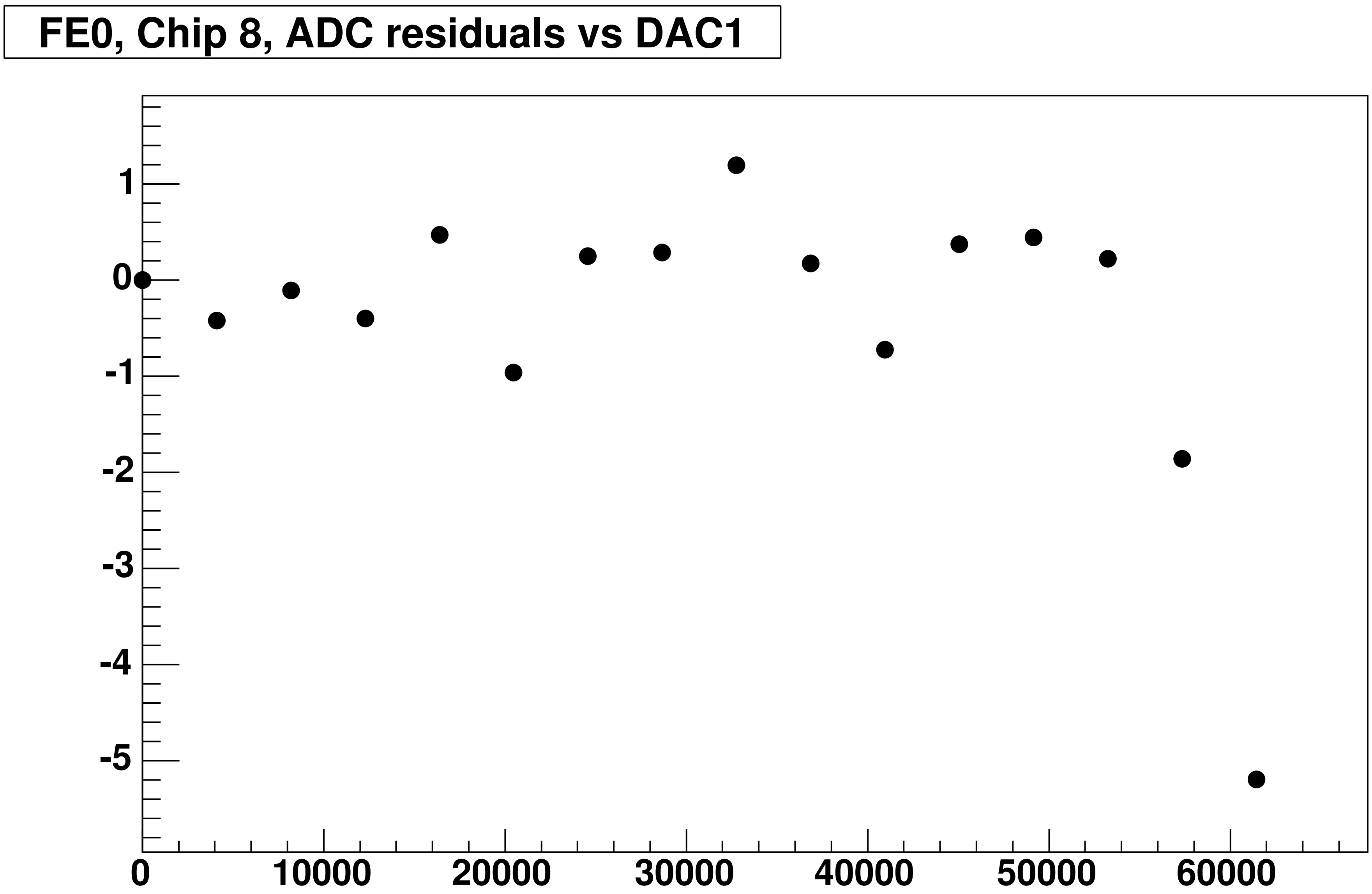
FE0, Chip 8, ADC mean vs DAC0
χ2 / ndf 30.62 / 11
p0 -47.92 ± 0.03971
p1 -2.799e-06 ± 1.102e-06
-47.8
-47.9
-48
-48.1
-48.2
-48.3
-48.4
0
10000
20000
30000
40000
50000
60000

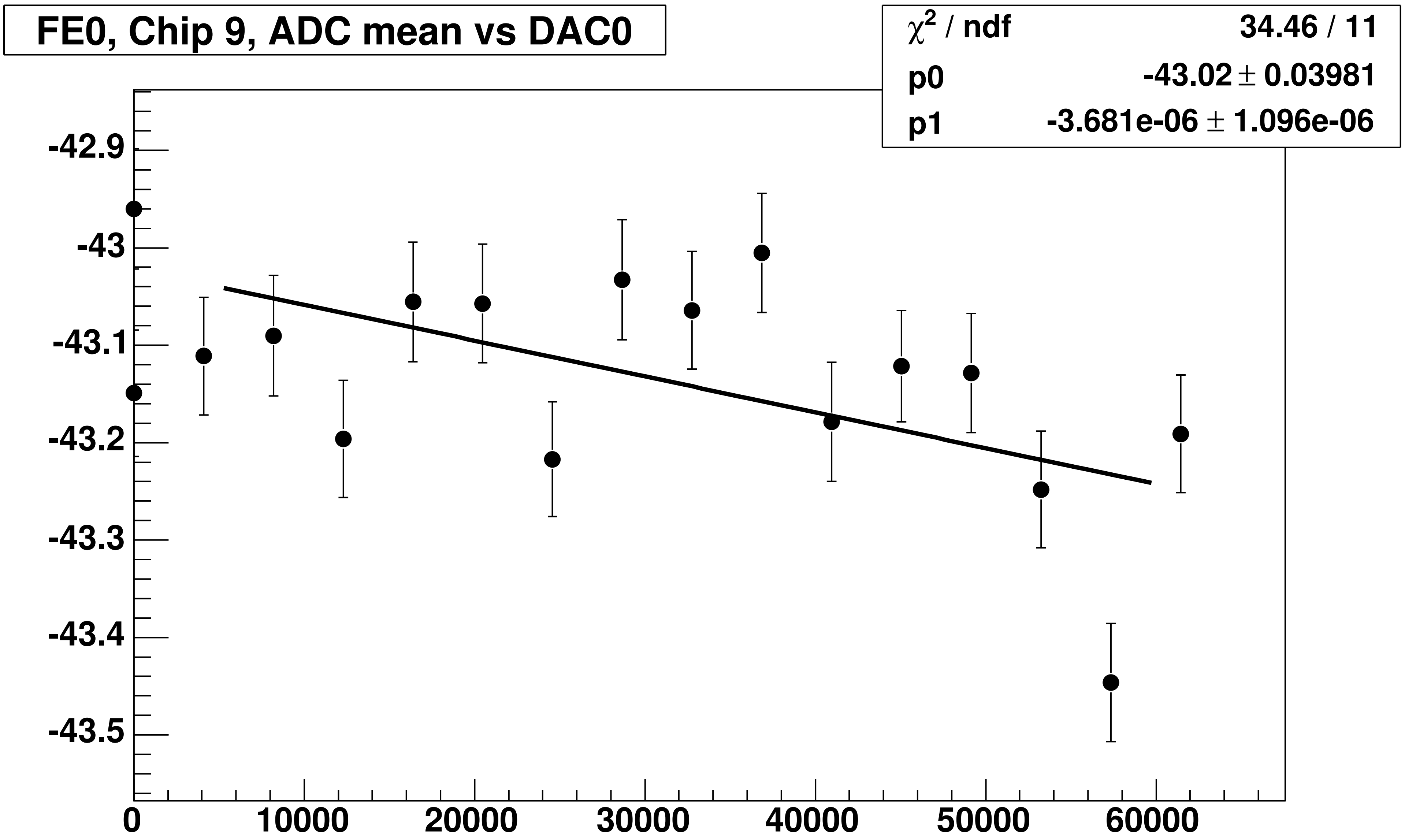

FE0, Chip 8, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

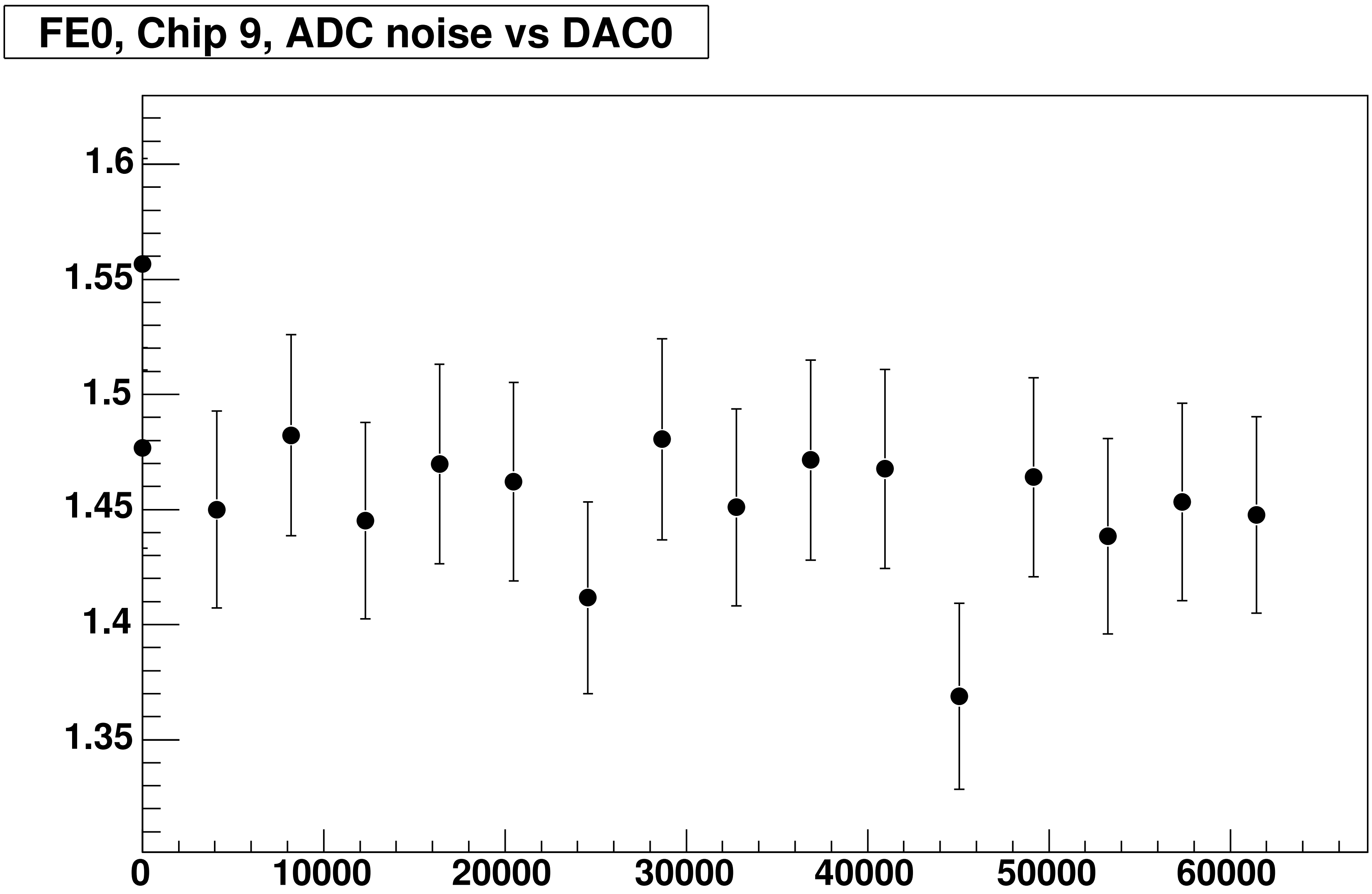

FE0, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

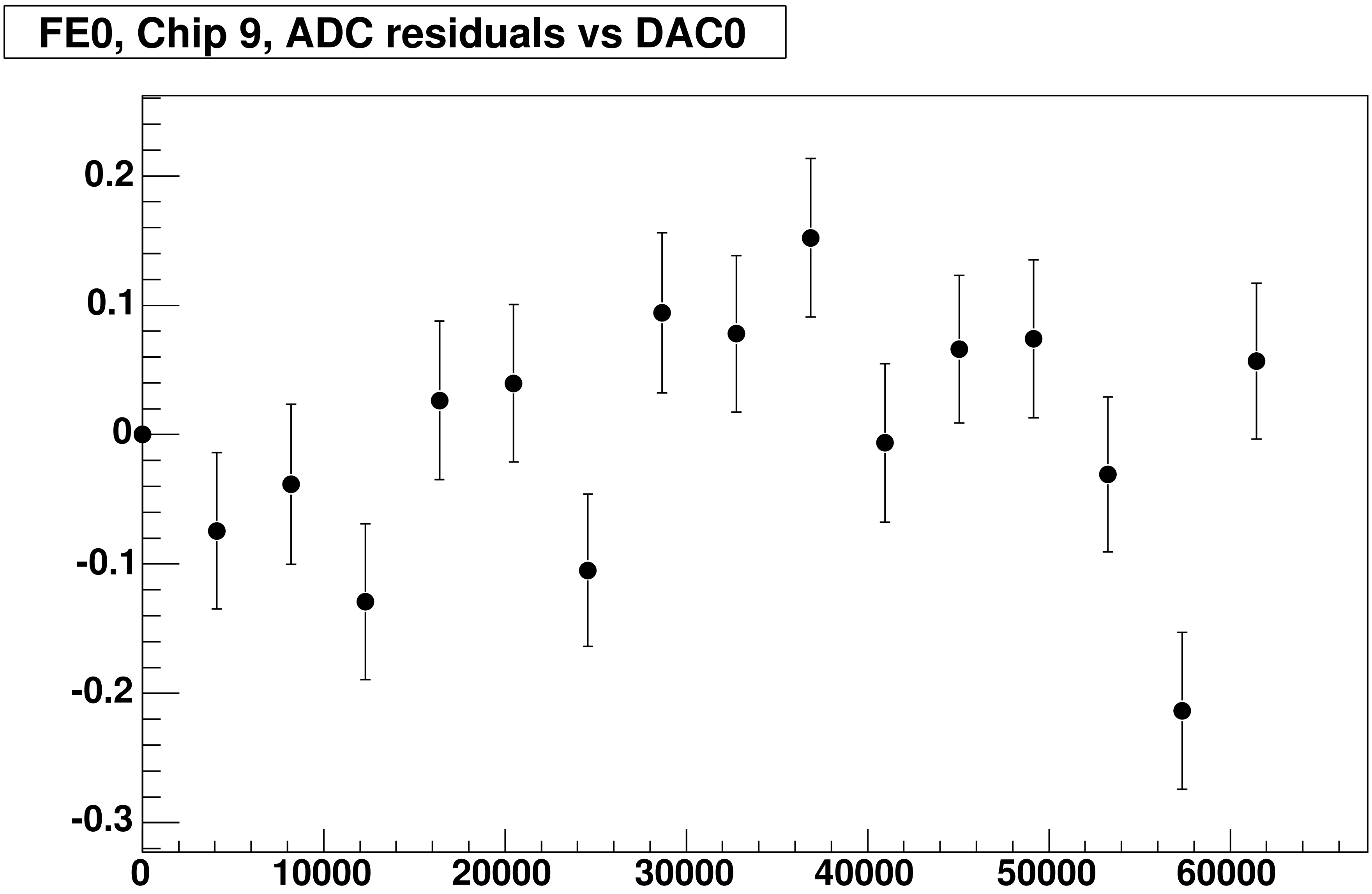

FE0, Chip 8, ADC mean vs DAC1
χ² / ndf 1130 / 11
p0 -48.94 ± 0.04193
p1 0.4504 ± 1.366e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

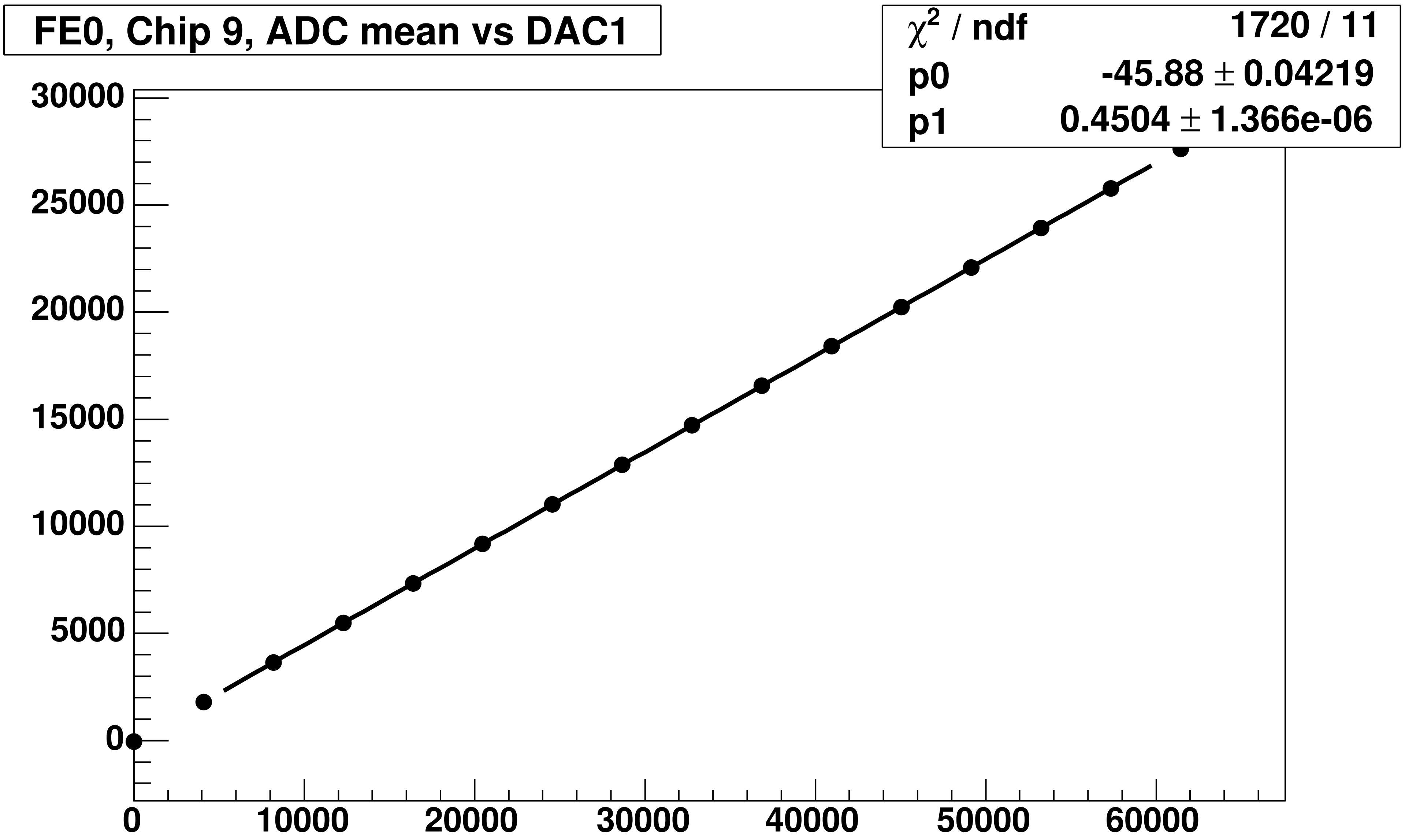

FE0, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

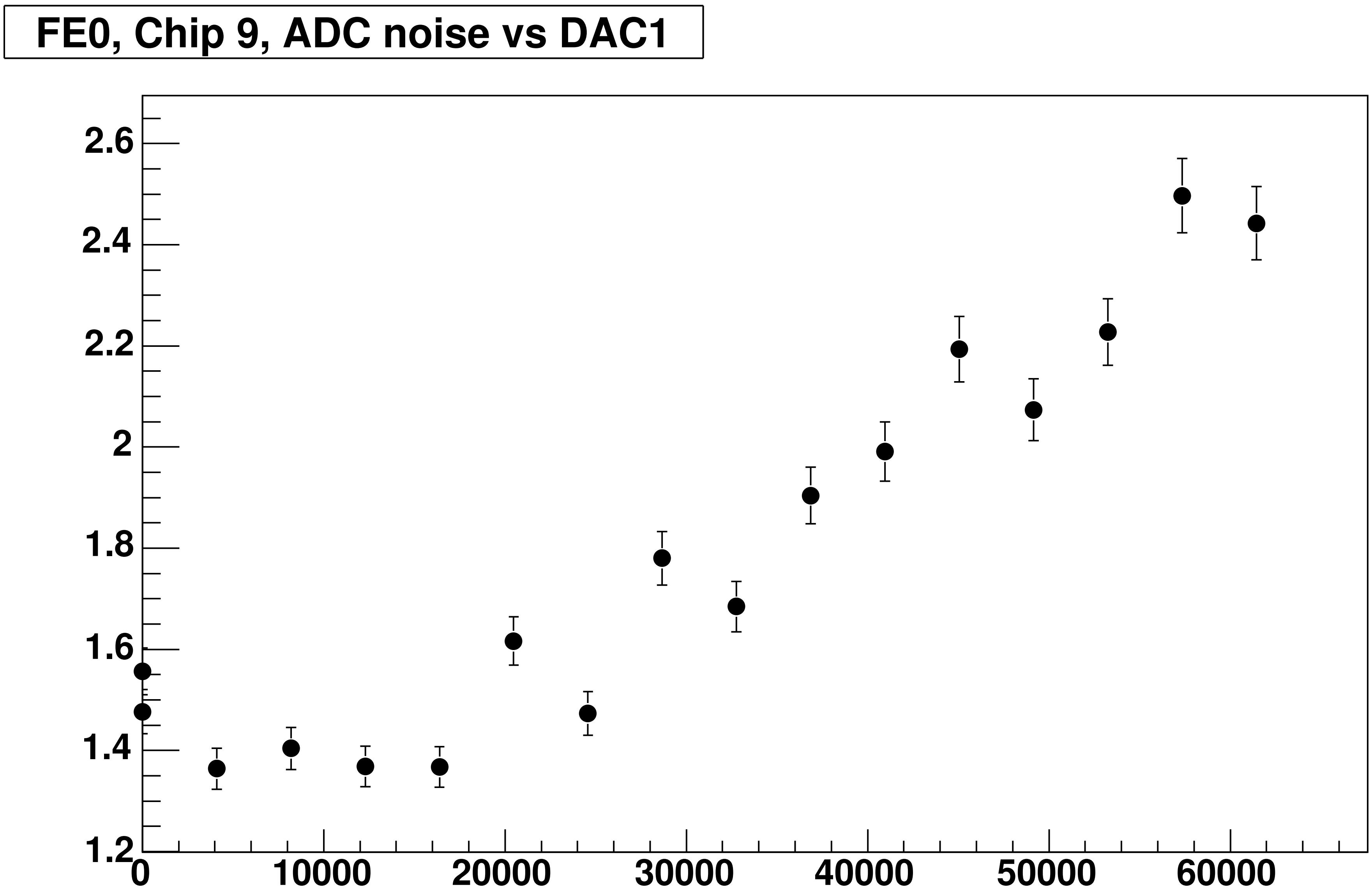

FE0, Chip 9, ADC mean vs DAC0
χ2 / ndf 34.46 / 11
p0 -43.02 ± 0.03981
p1 -3.681e-06 ± 1.096e-06
-42.9
-43
-43.1
-43.2
-43.3
-43.4
-43.5
0
10000
20000
30000
40000
50000
60000

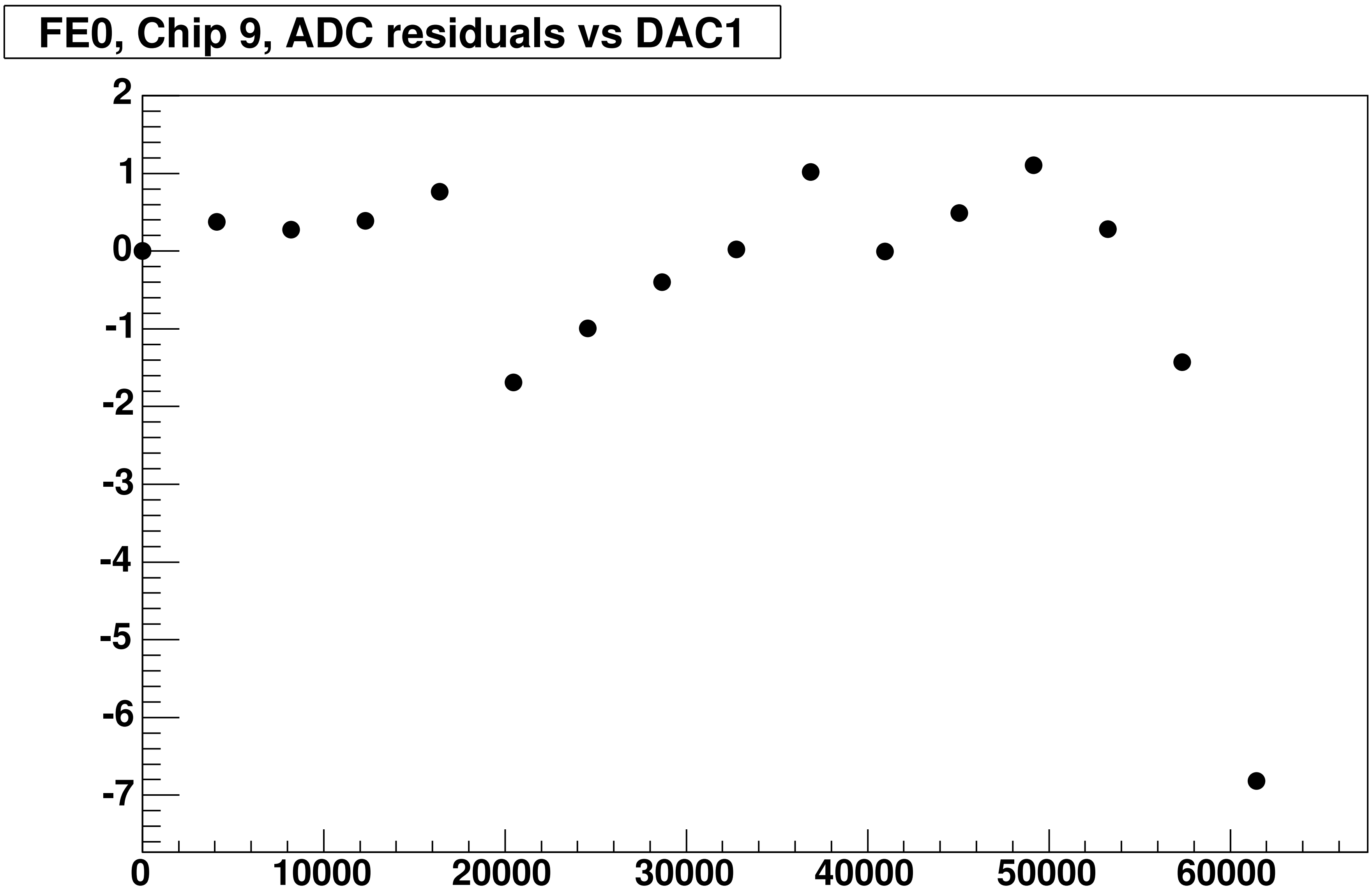

FE0, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

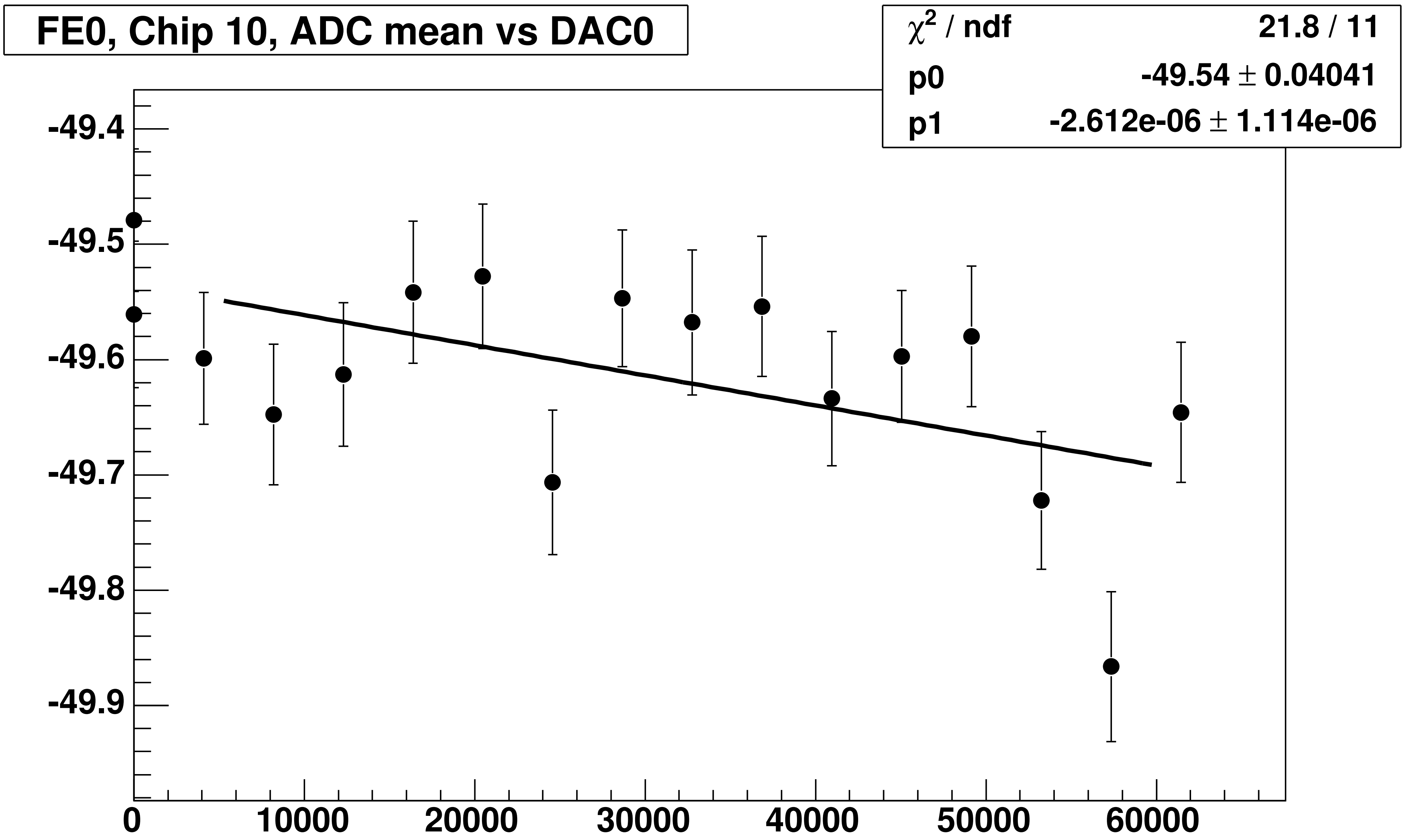

FE0, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

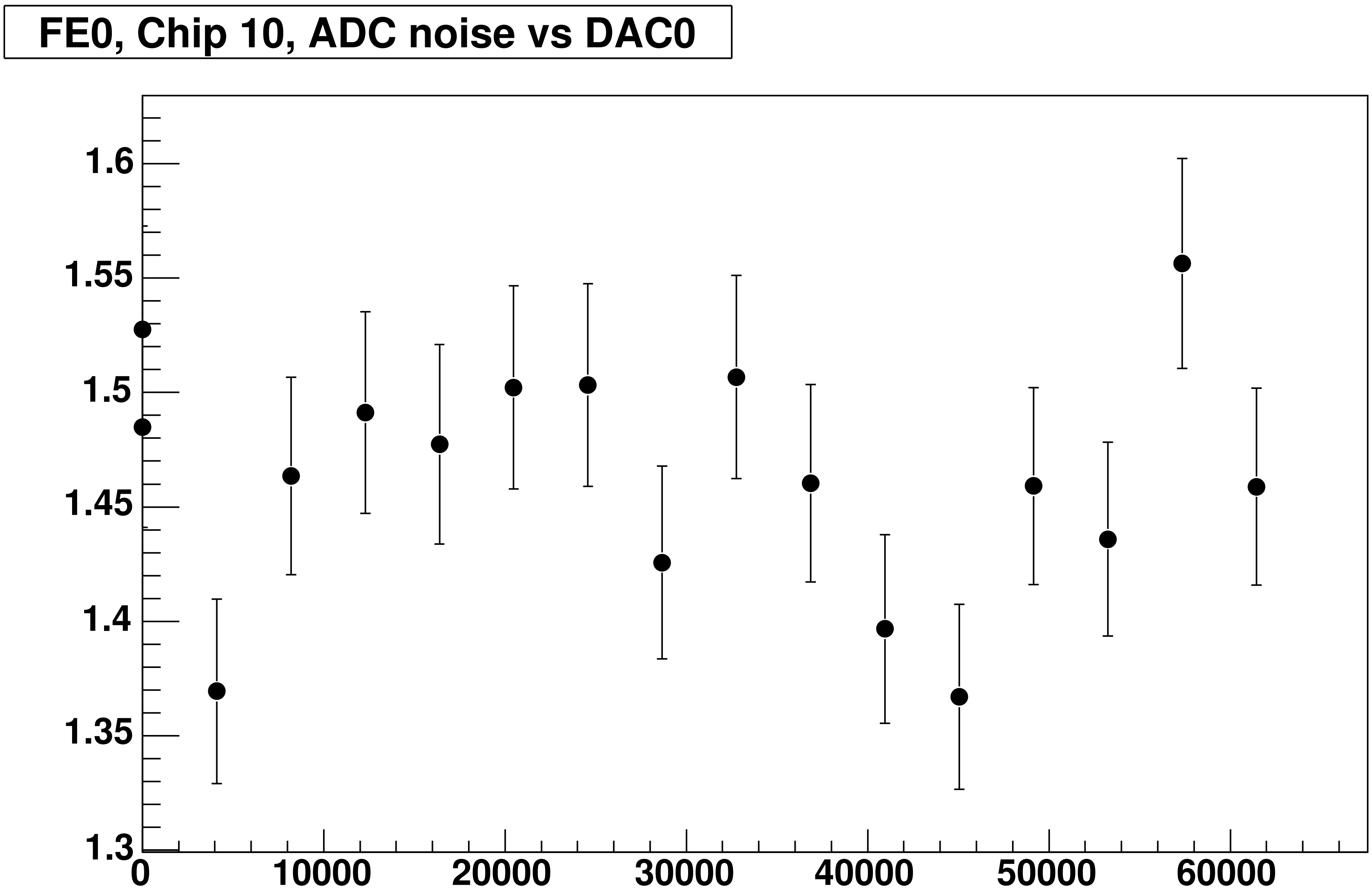


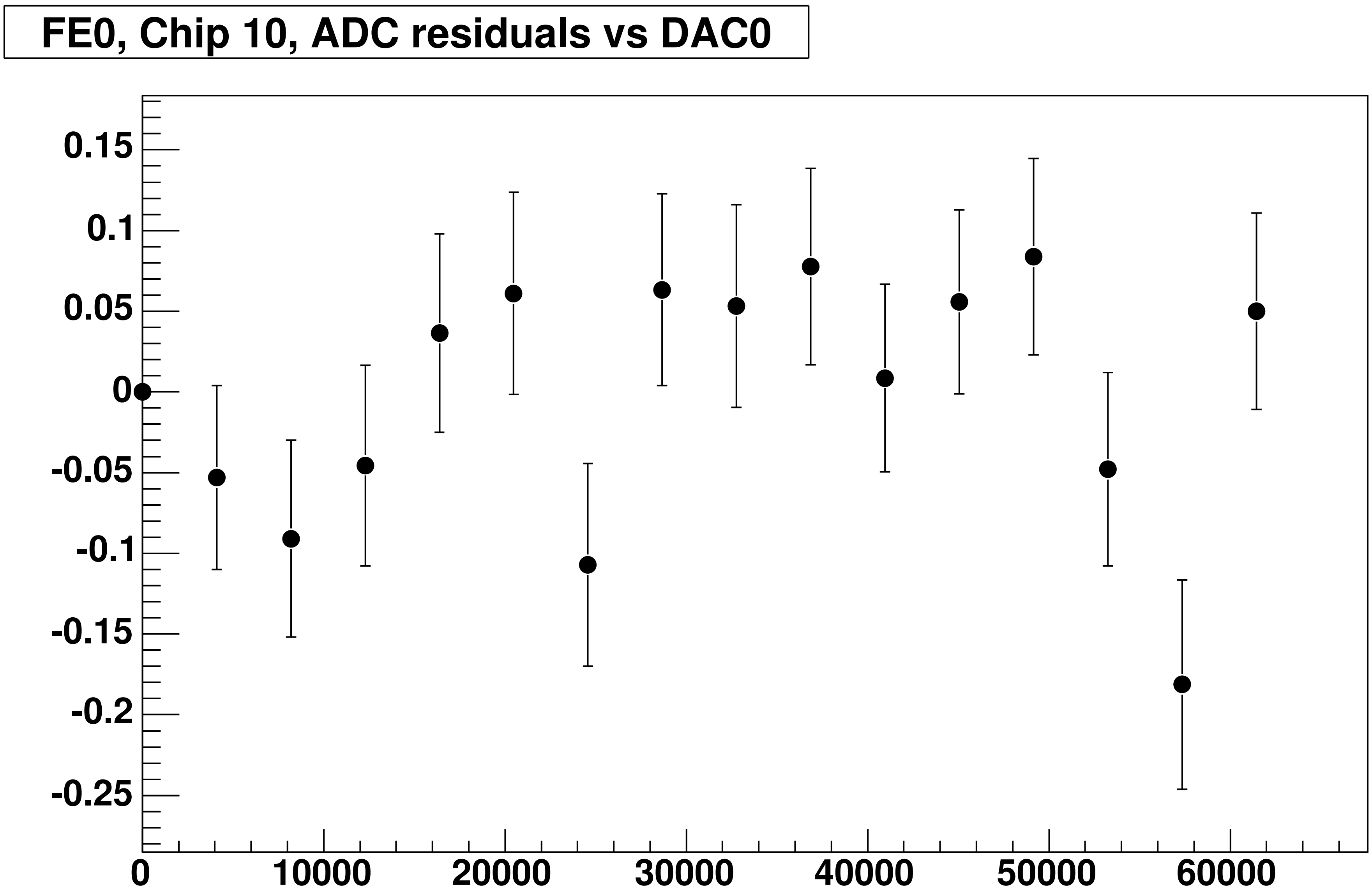
FE0, Chip 9, ADC mean vs DAC1
χ2 / ndf 1720 / 11
p0 -45.88 ± 0.04219
p1 0.4504 ± 1.366e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

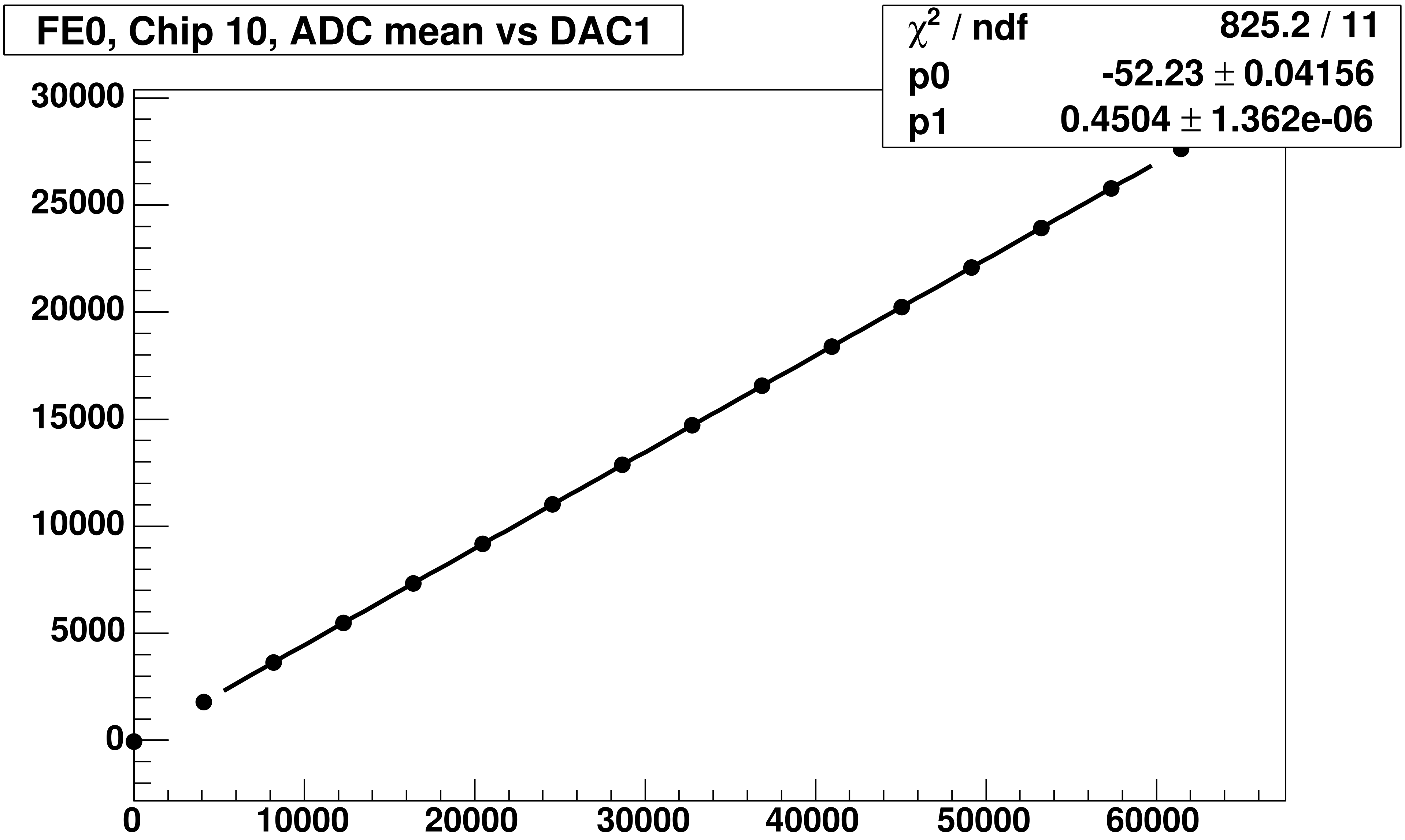

FE0, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

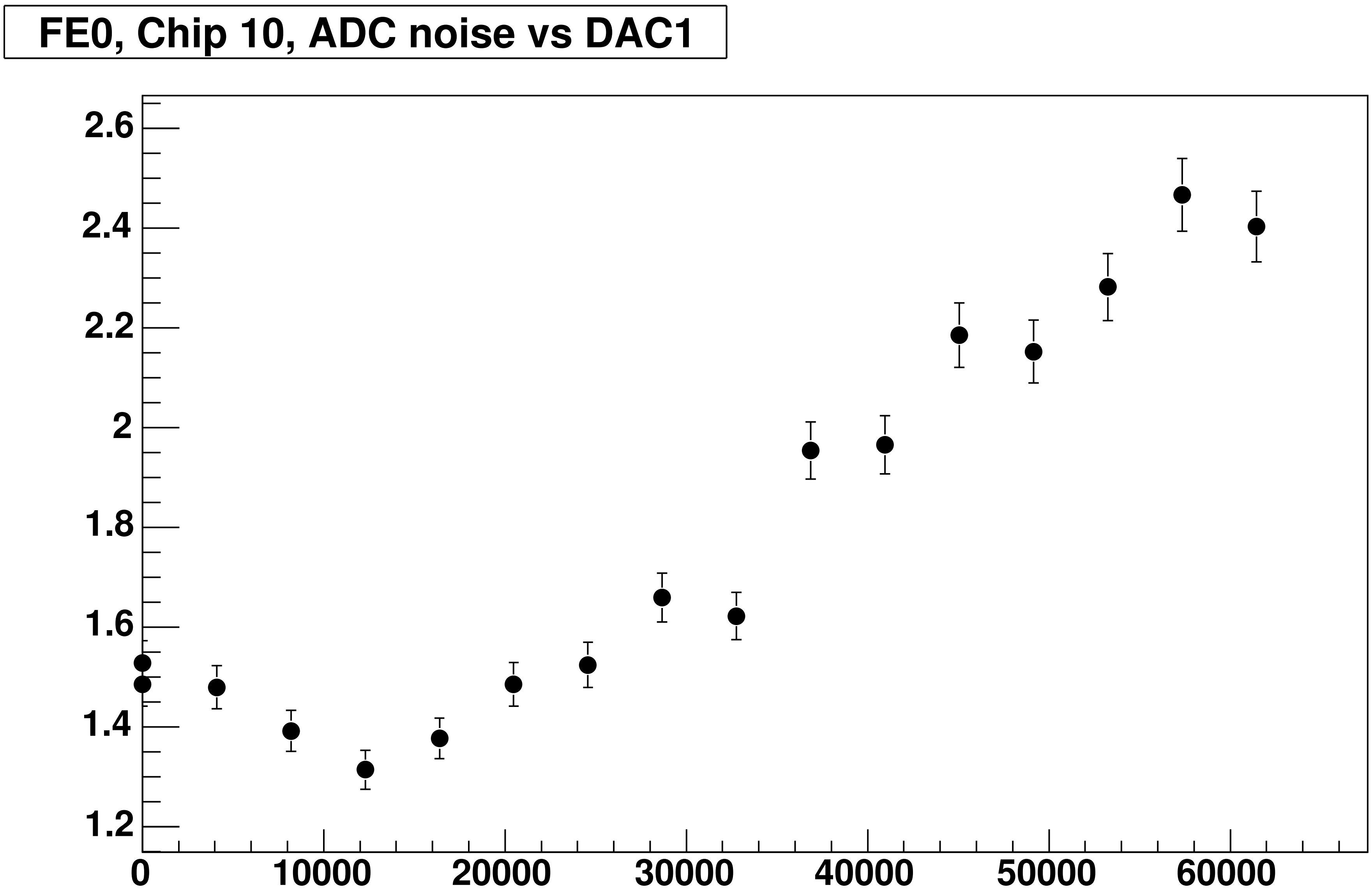

FE0, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000


FE0, Chip 10, ADC mean vs DAC0
χ^2 / ndf 21.8 / 11
p0 -49.54 ± 0.04041
p1 -2.612e-06 ± 1.114e-06
-49.4
-49.5
-49.6
-49.7
-49.8
-49.9
0
10000
20000
30000
40000
50000
60000

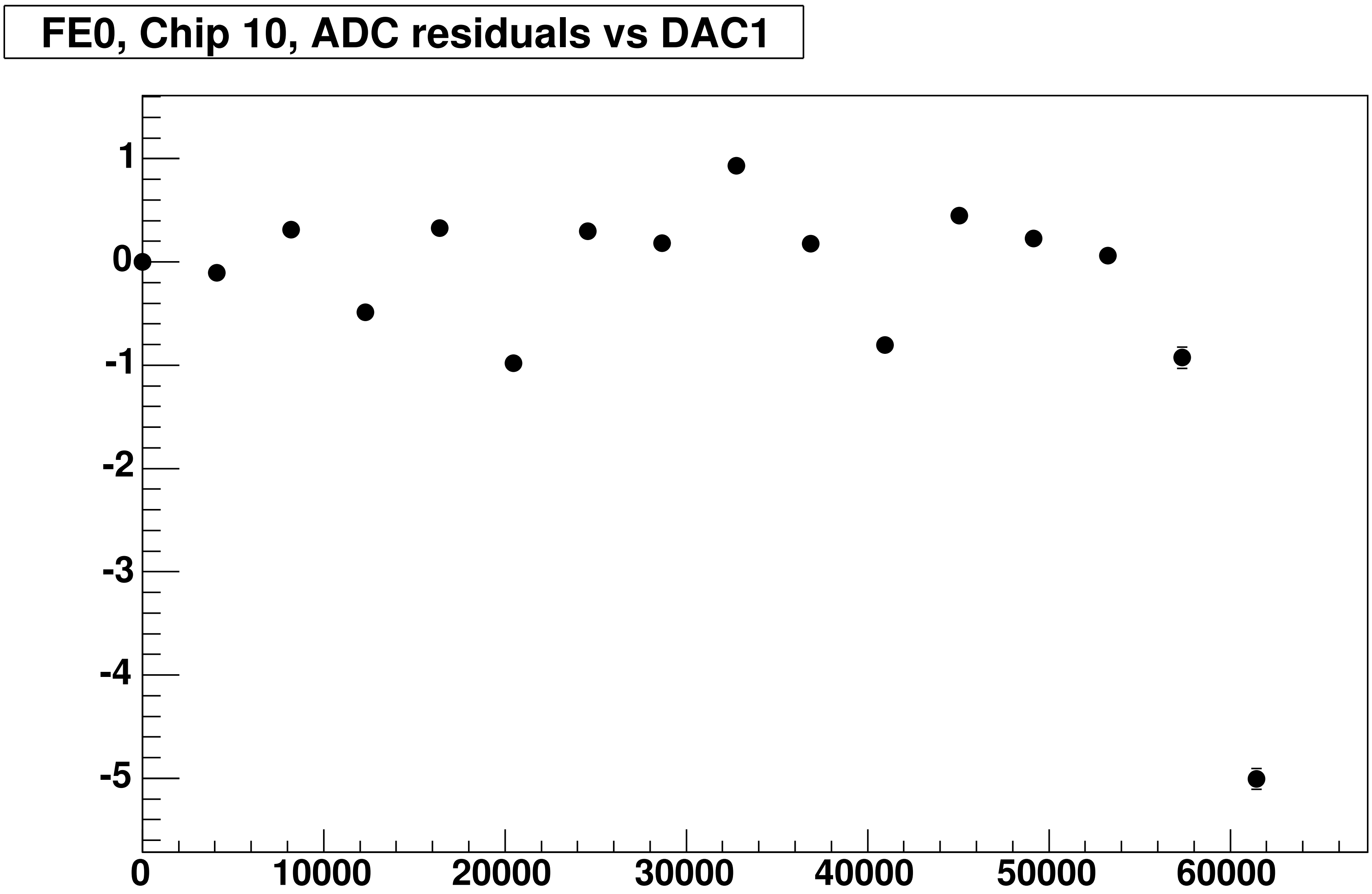

FE0, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

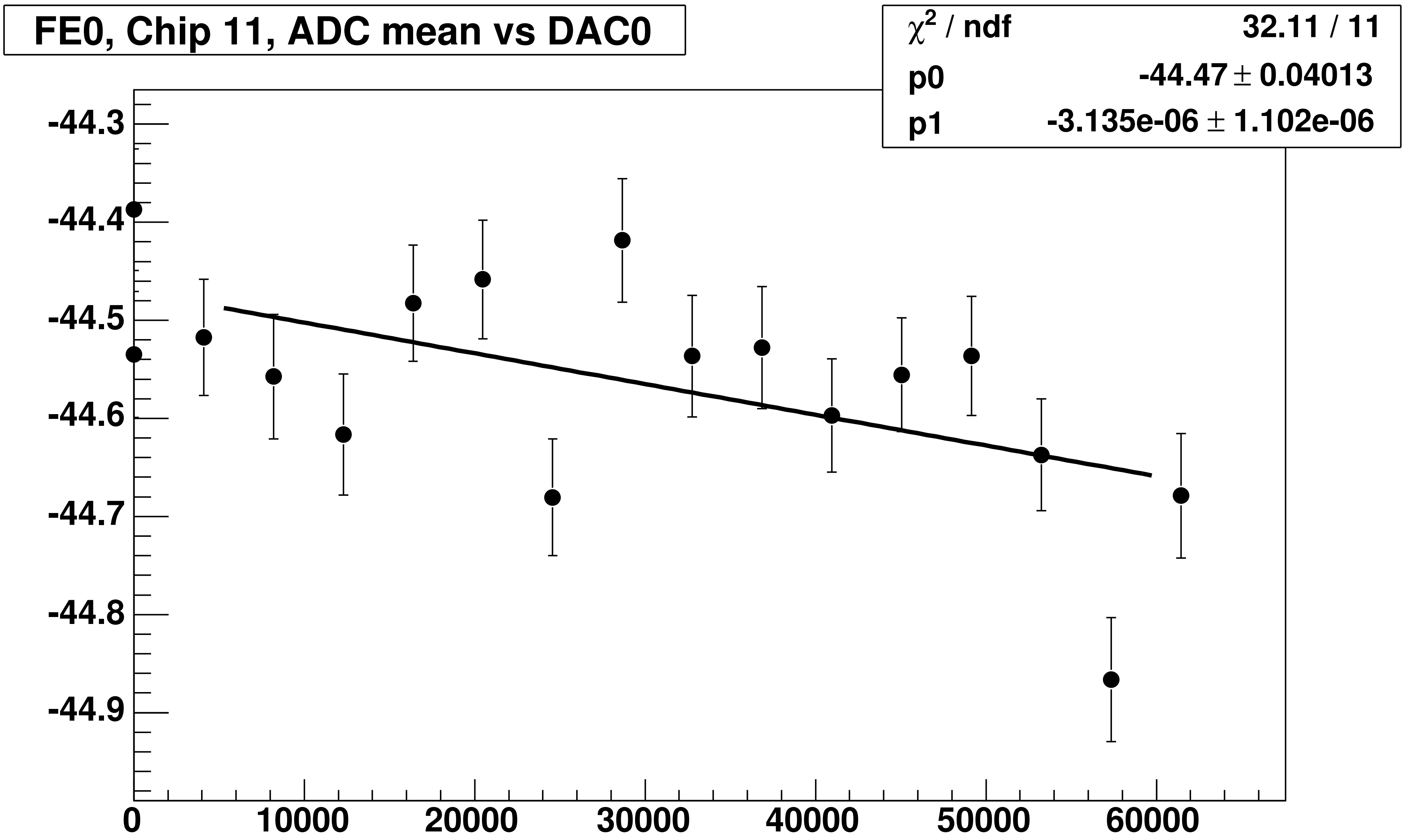

FE0, Chip 10, ADC residuals vs DAC0
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

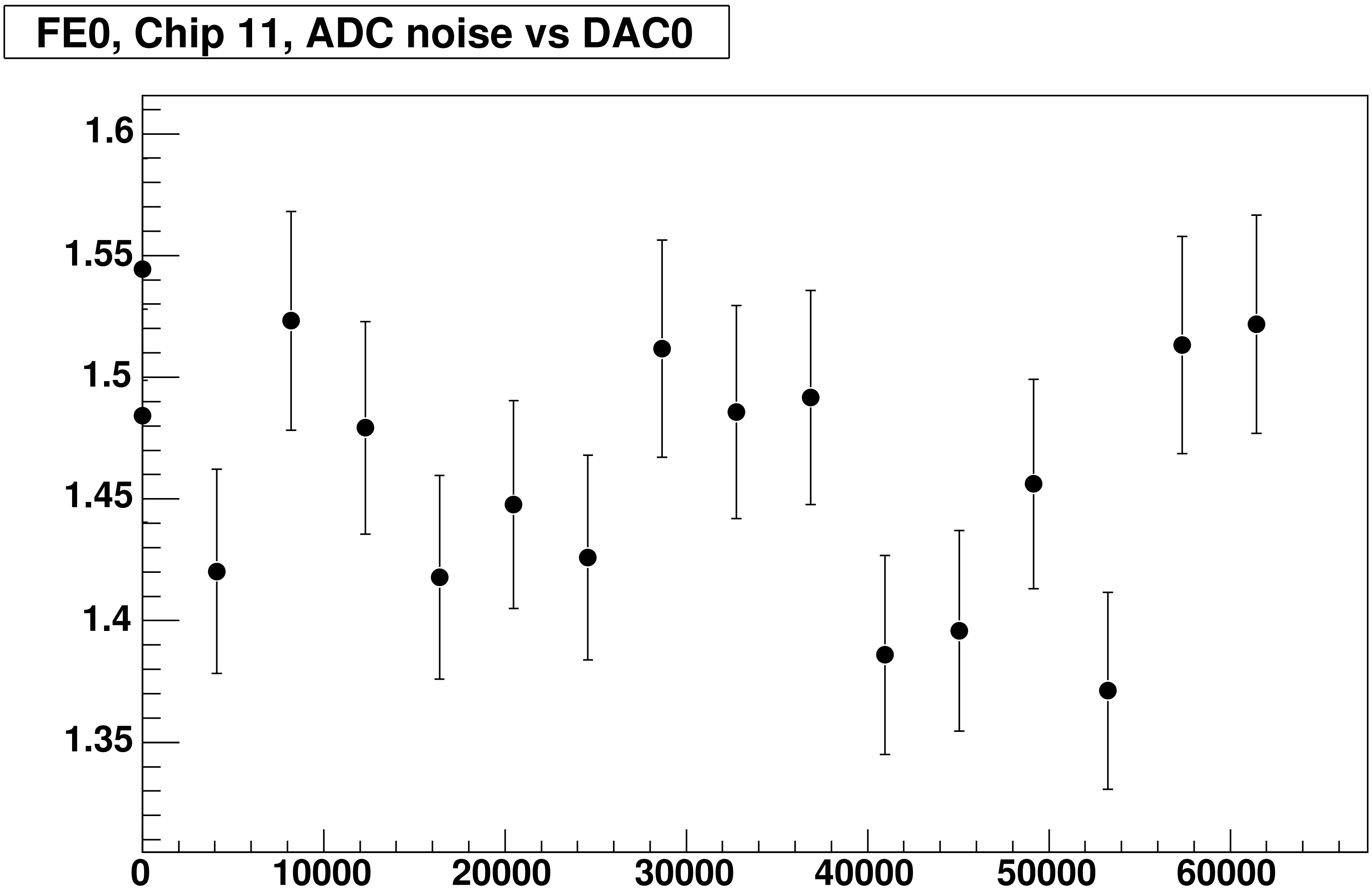

FE0, Chip 10, ADC mean vs DAC1
χ^2 / ndf 825.2 / 11
p0 -52.23 ± 0.04156
p1 0.4504 ± 1.362e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

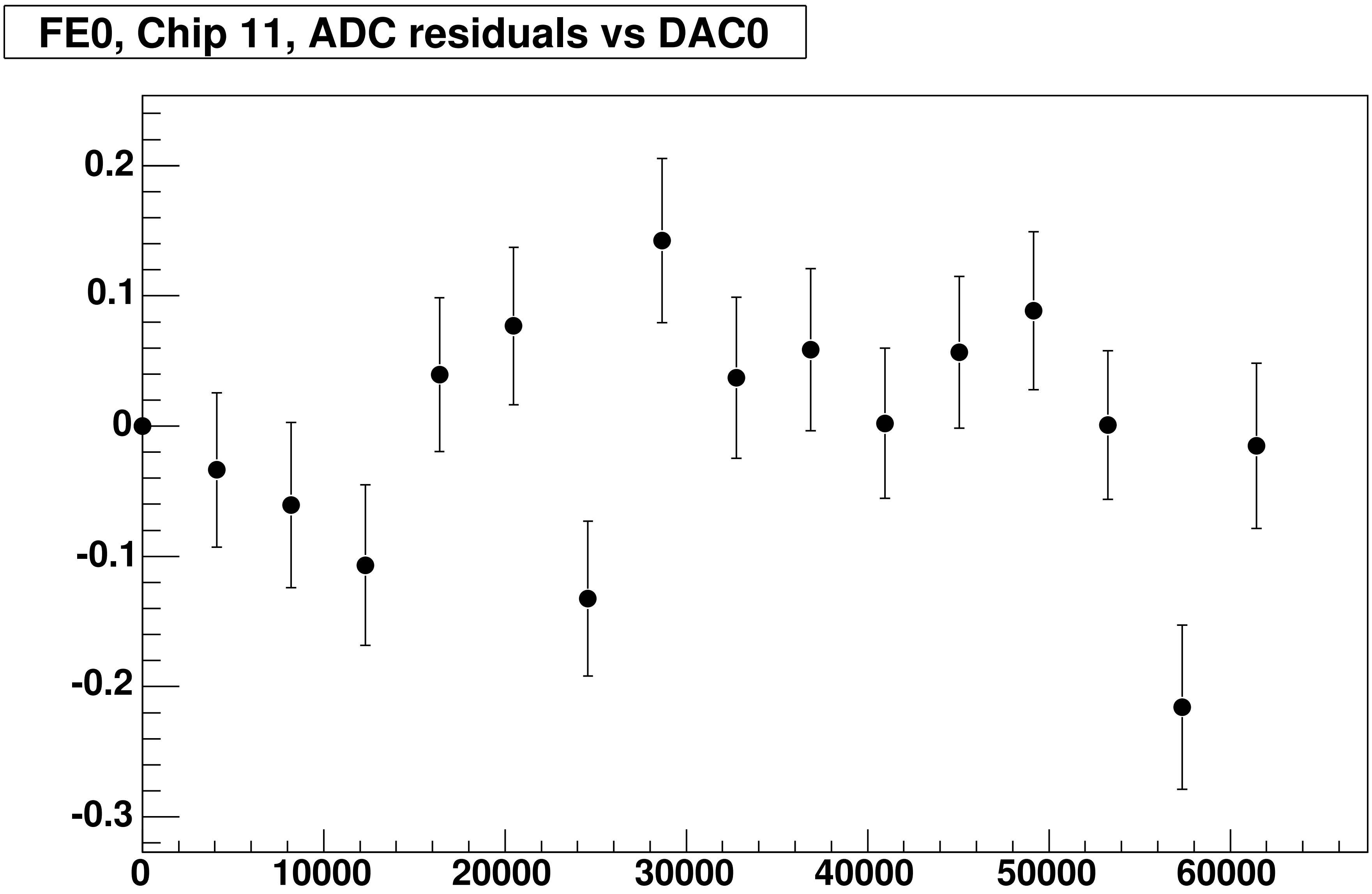


FE0, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

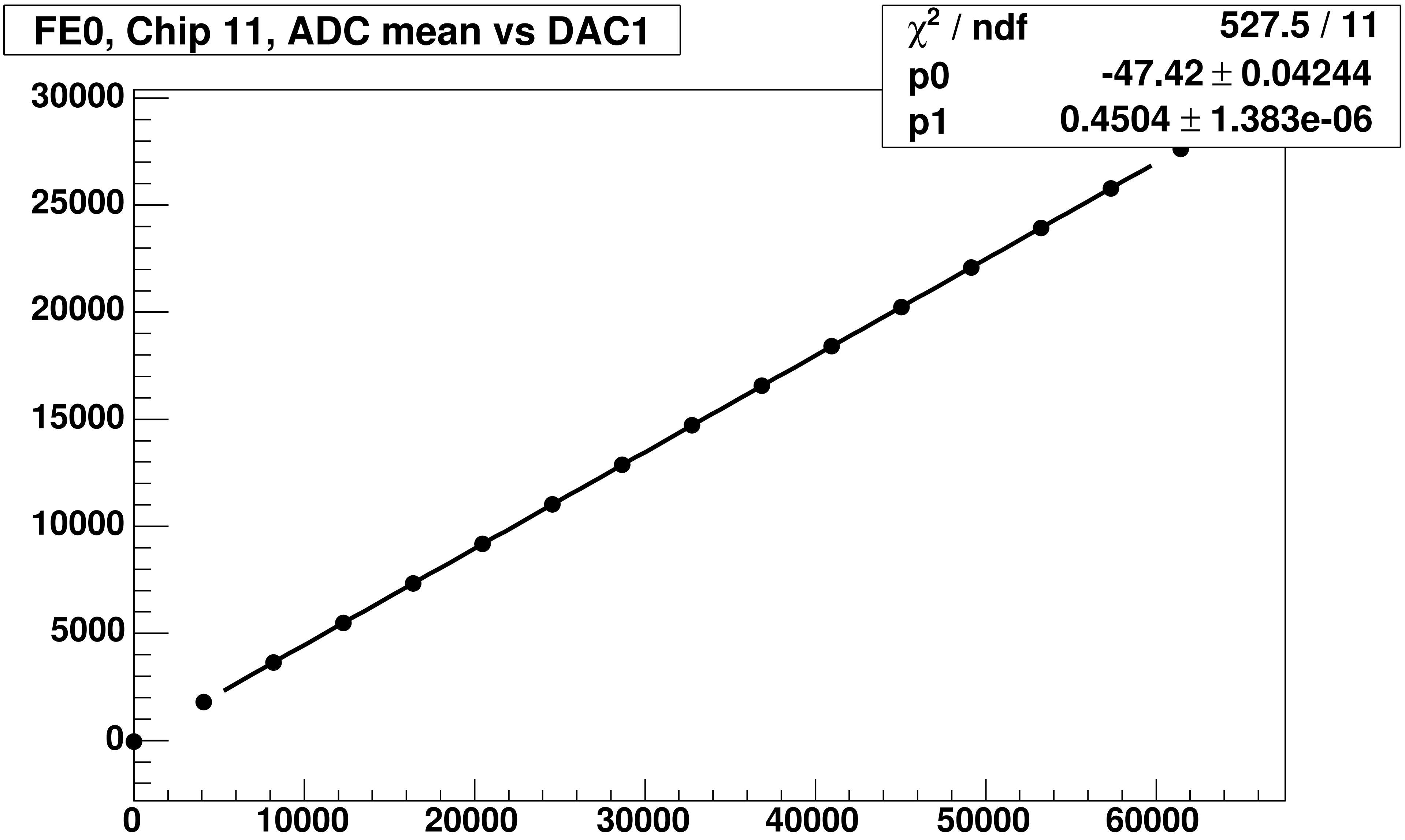

FE0, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE0, Chip 11, ADC mean vs DAC0
χ^2 / ndf 32.11 / 11
p0 -44.47 ± 0.04013
p1 -3.135e-06 ± 1.102e-06
-44.3
-44.4
-44.5
-44.6
-44.7
-44.8
-44.9
0
10000
20000
30000
40000
50000
60000

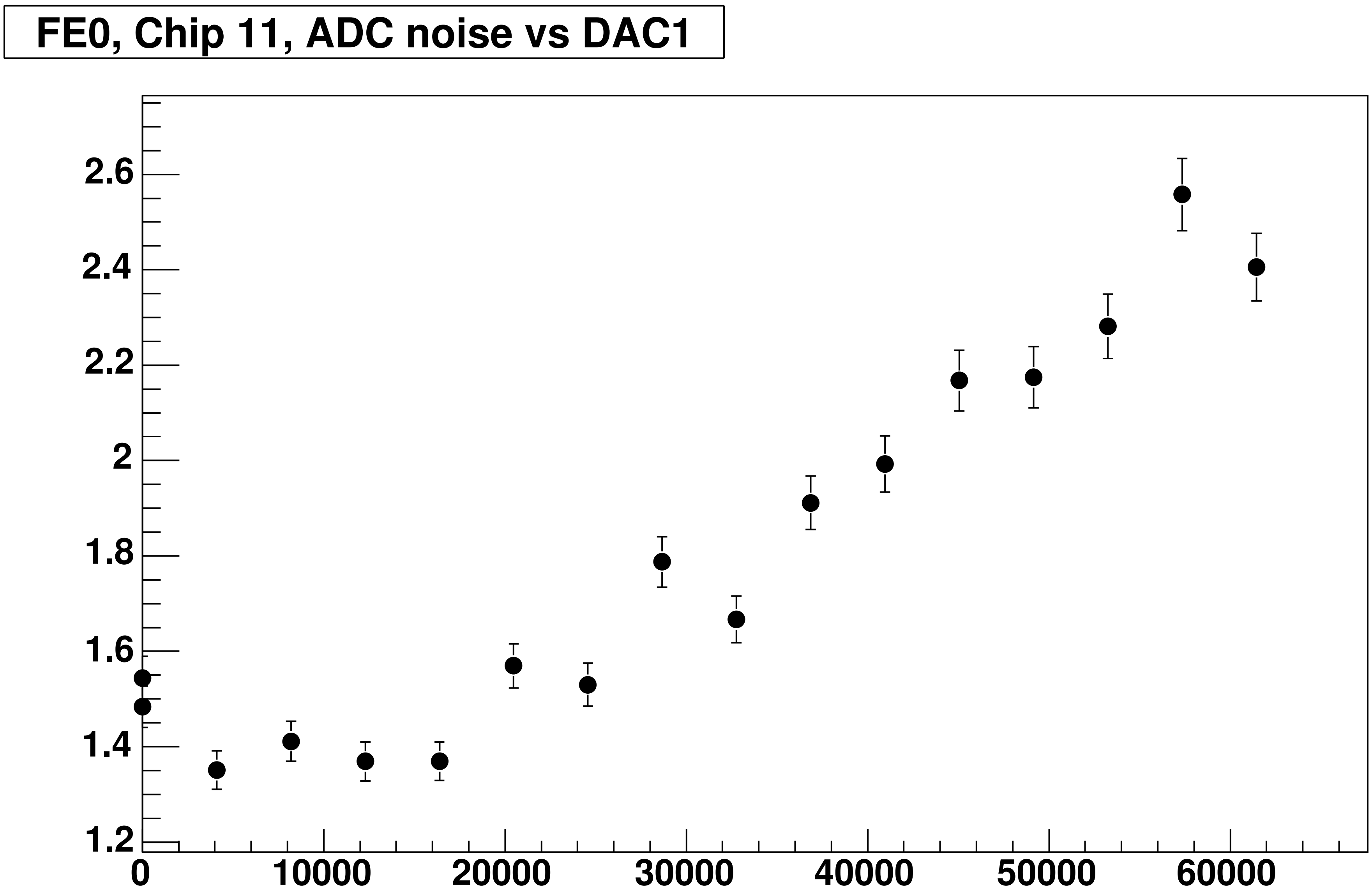

FE0, Chip 11, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



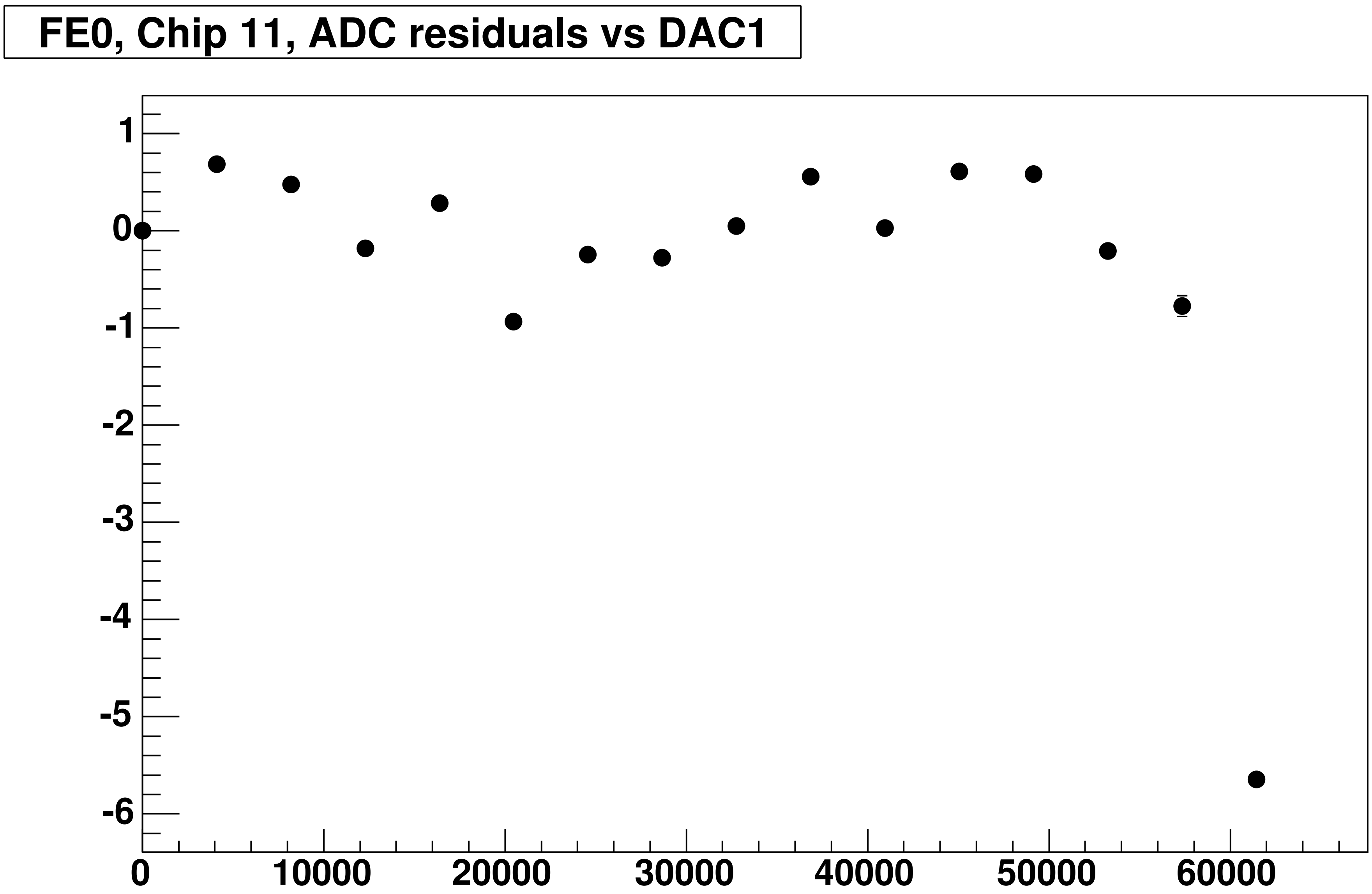
FE0, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

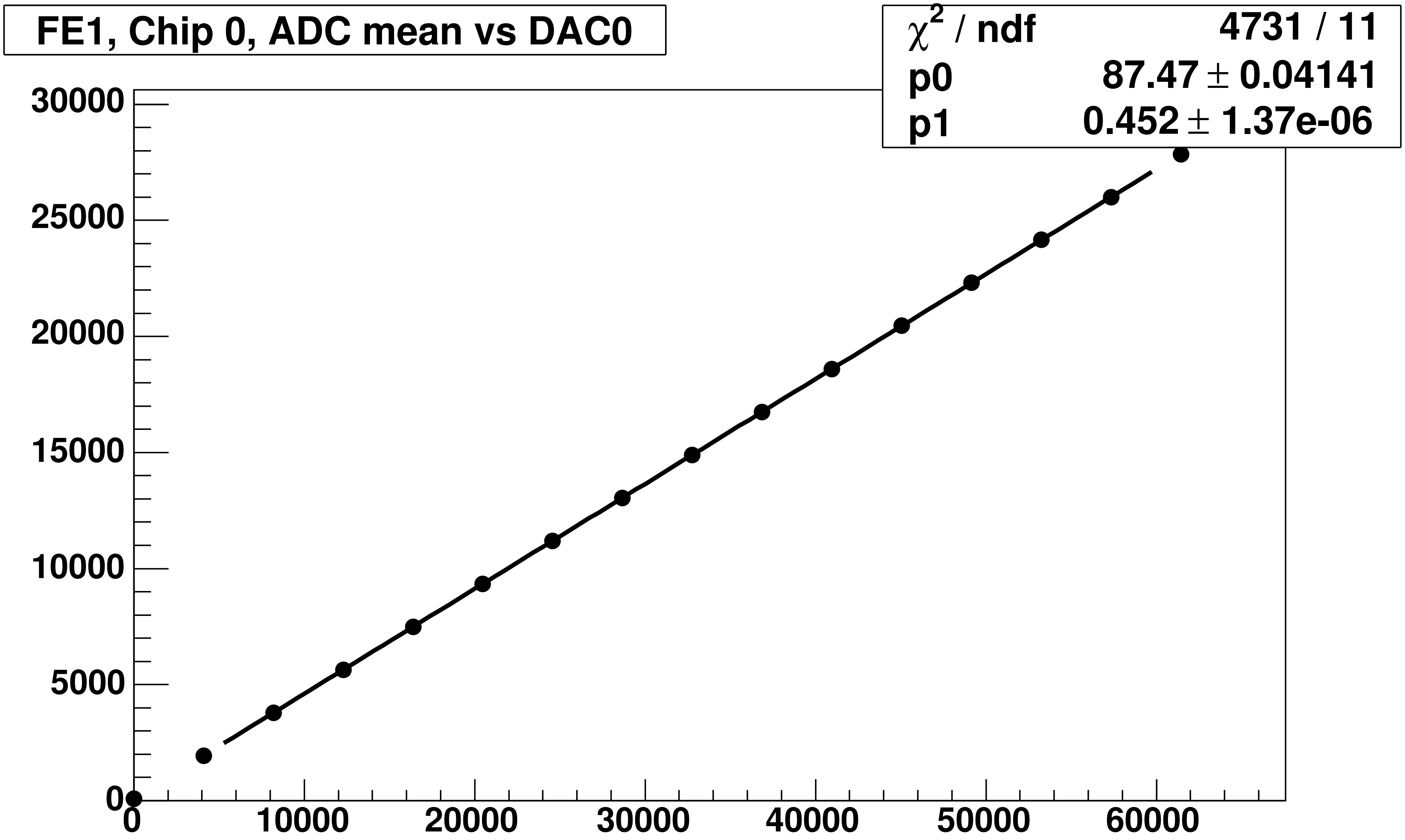


FE0, Chip 11, ADC mean vs DAC1
χ^2 / ndf 527.5 / 11
p0 -47.42 ± 0.04244
p1 0.4504 ± 1.383e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

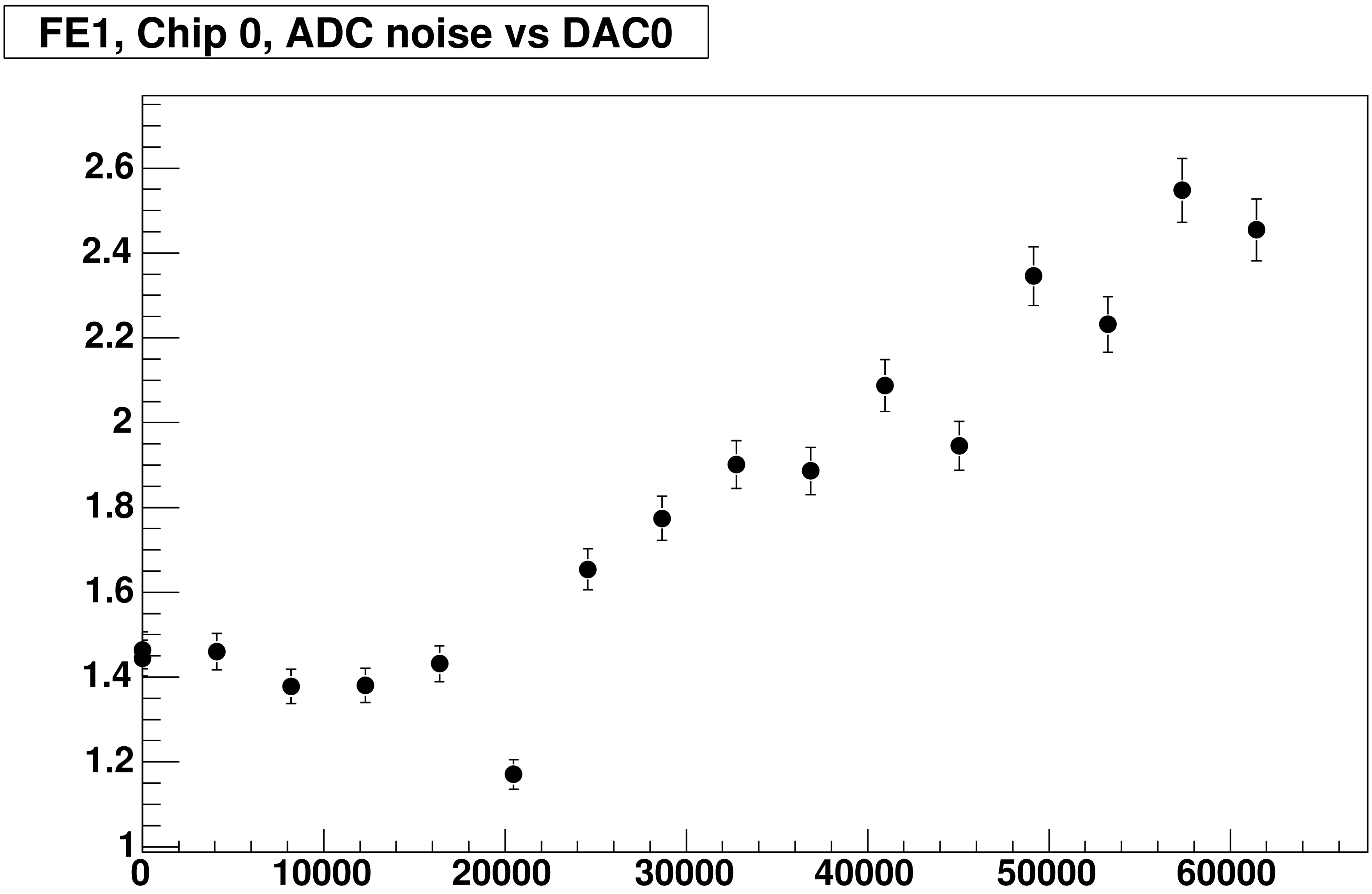


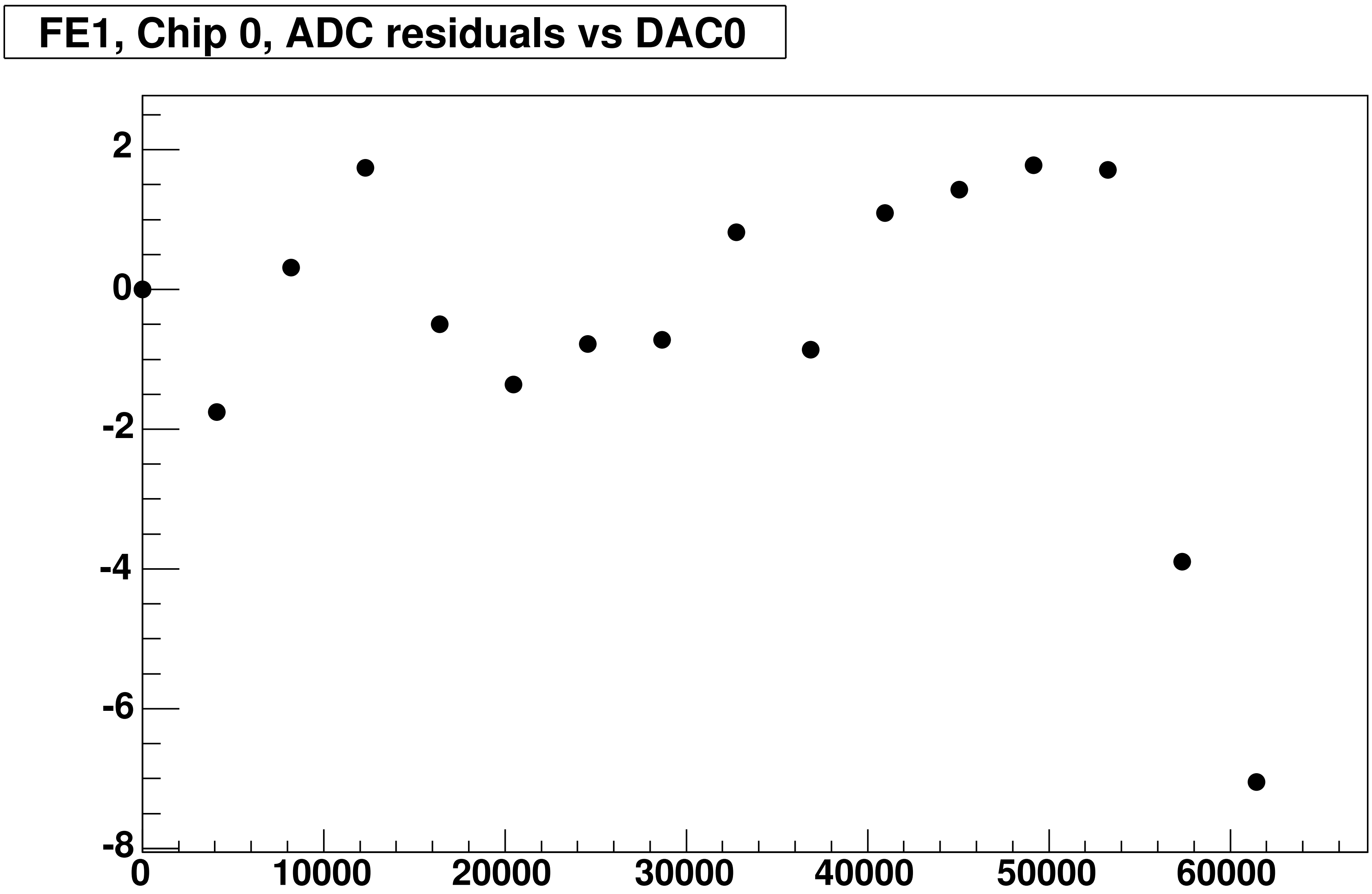
FE0, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

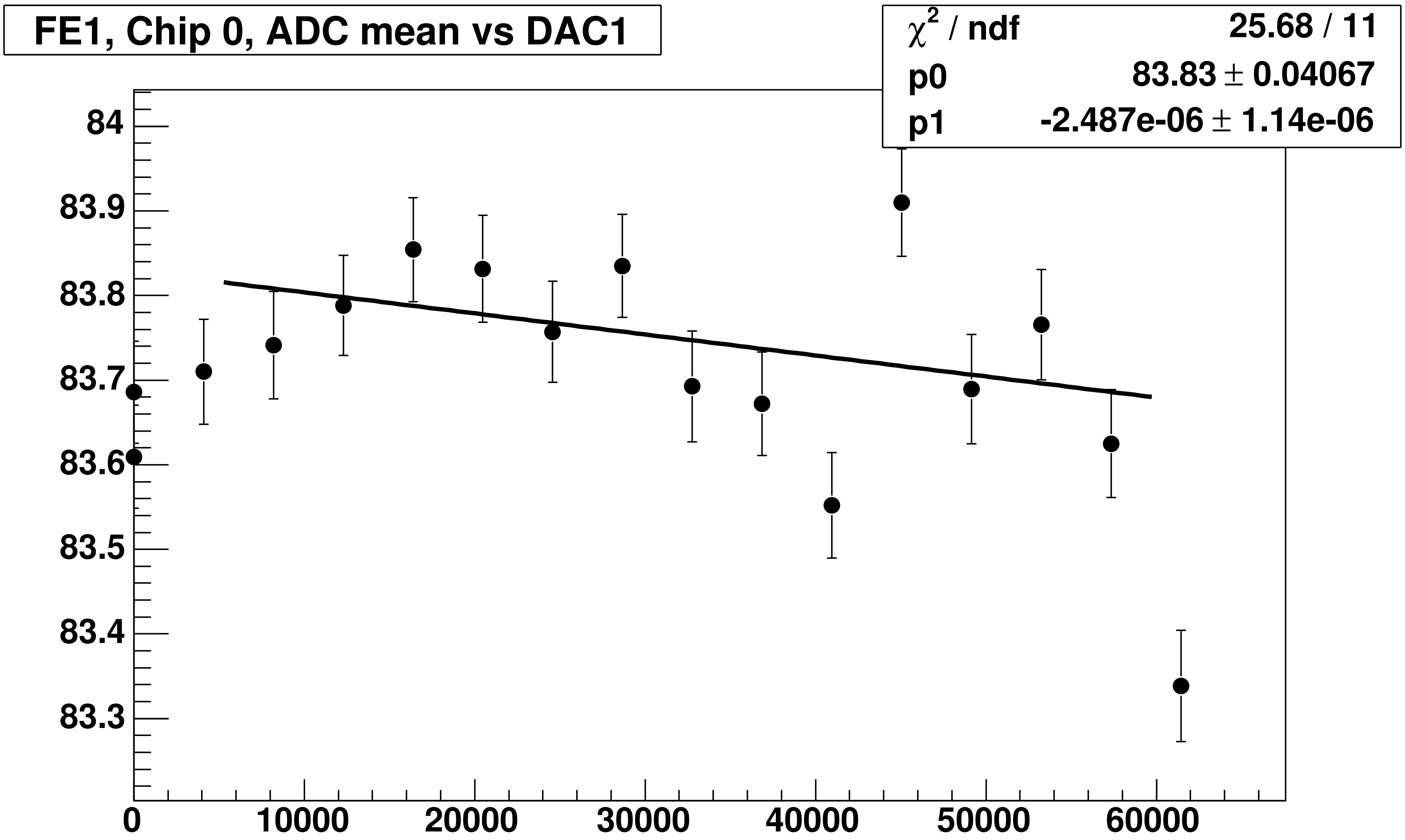

FE0, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

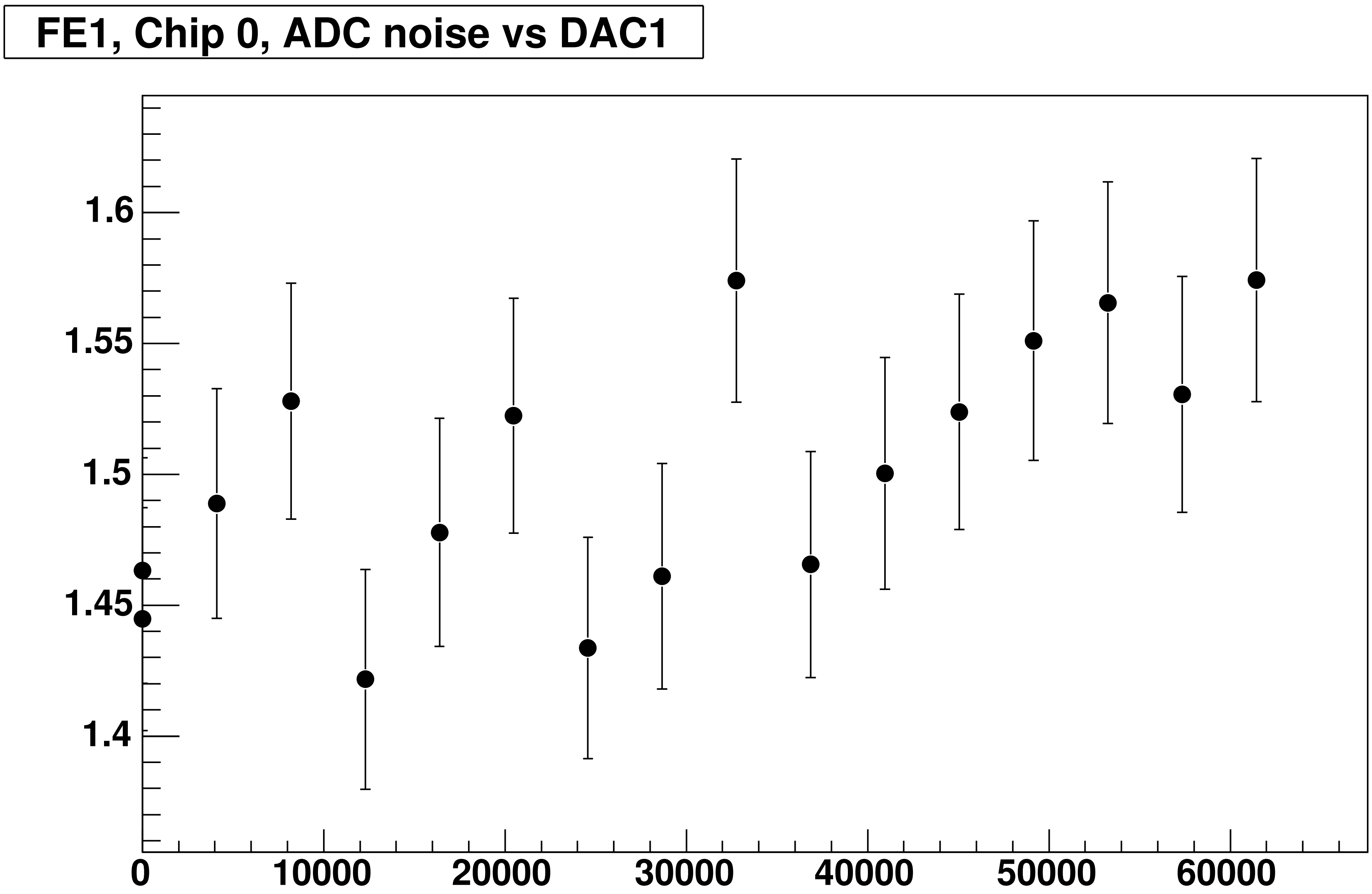


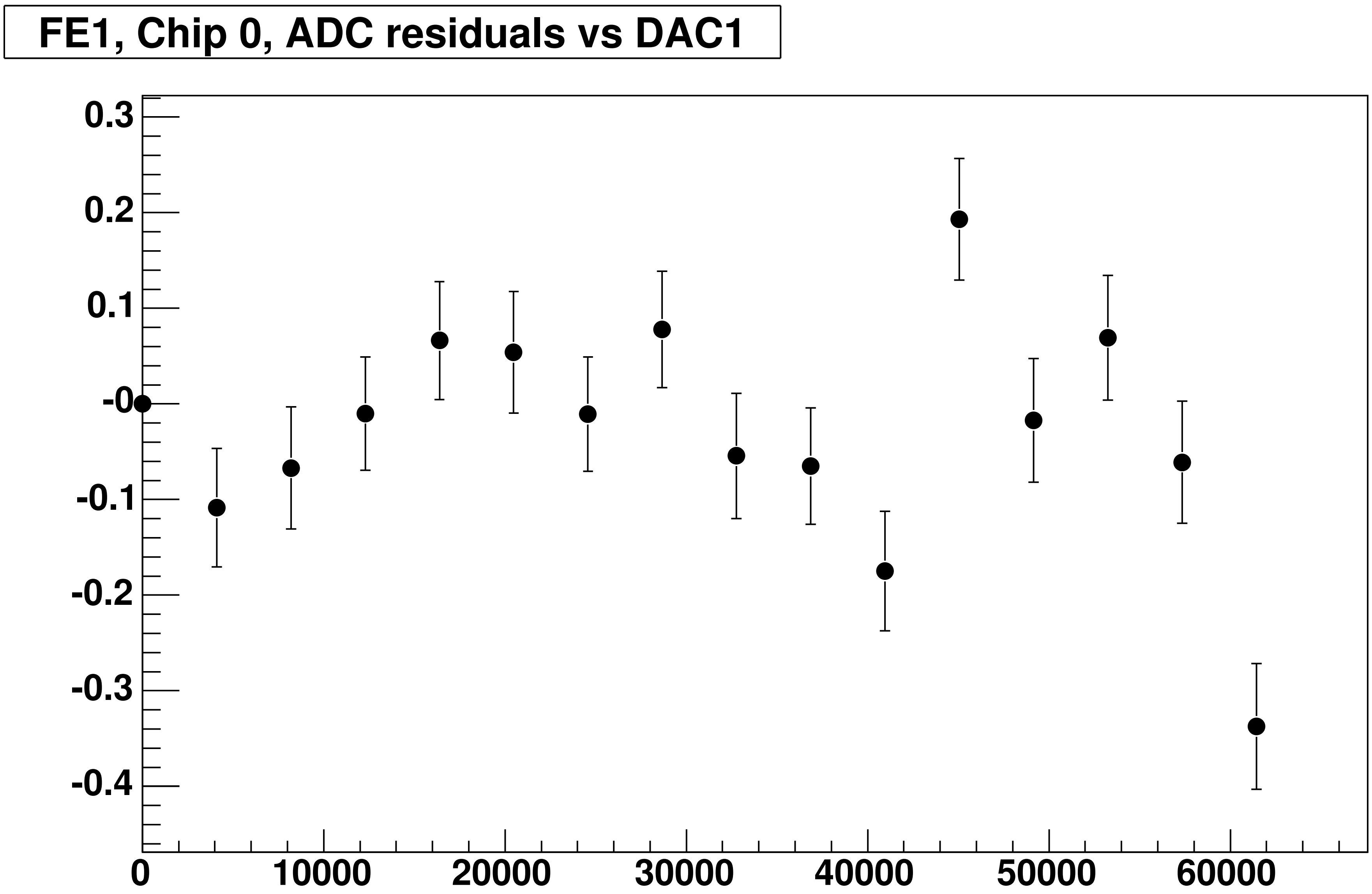
FE1, Chip 0, ADC mean vs DAC0
χ^2 / ndf 4731 / 11
p0 87.47 ± 0.04141
p1 0.452 ± 1.37e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

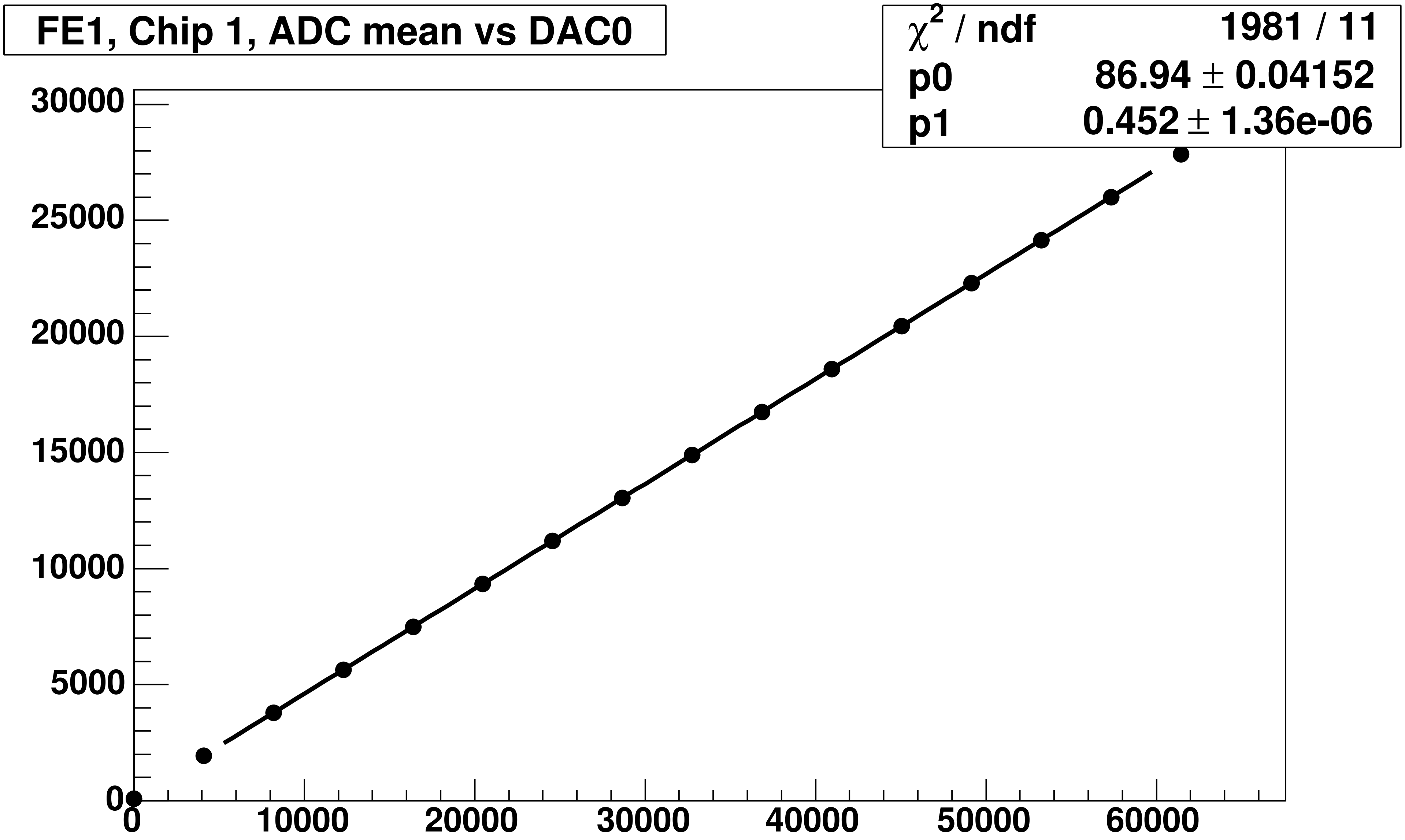

FE1, Chip 0, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0
10000
20000
30000
40000
50000
60000

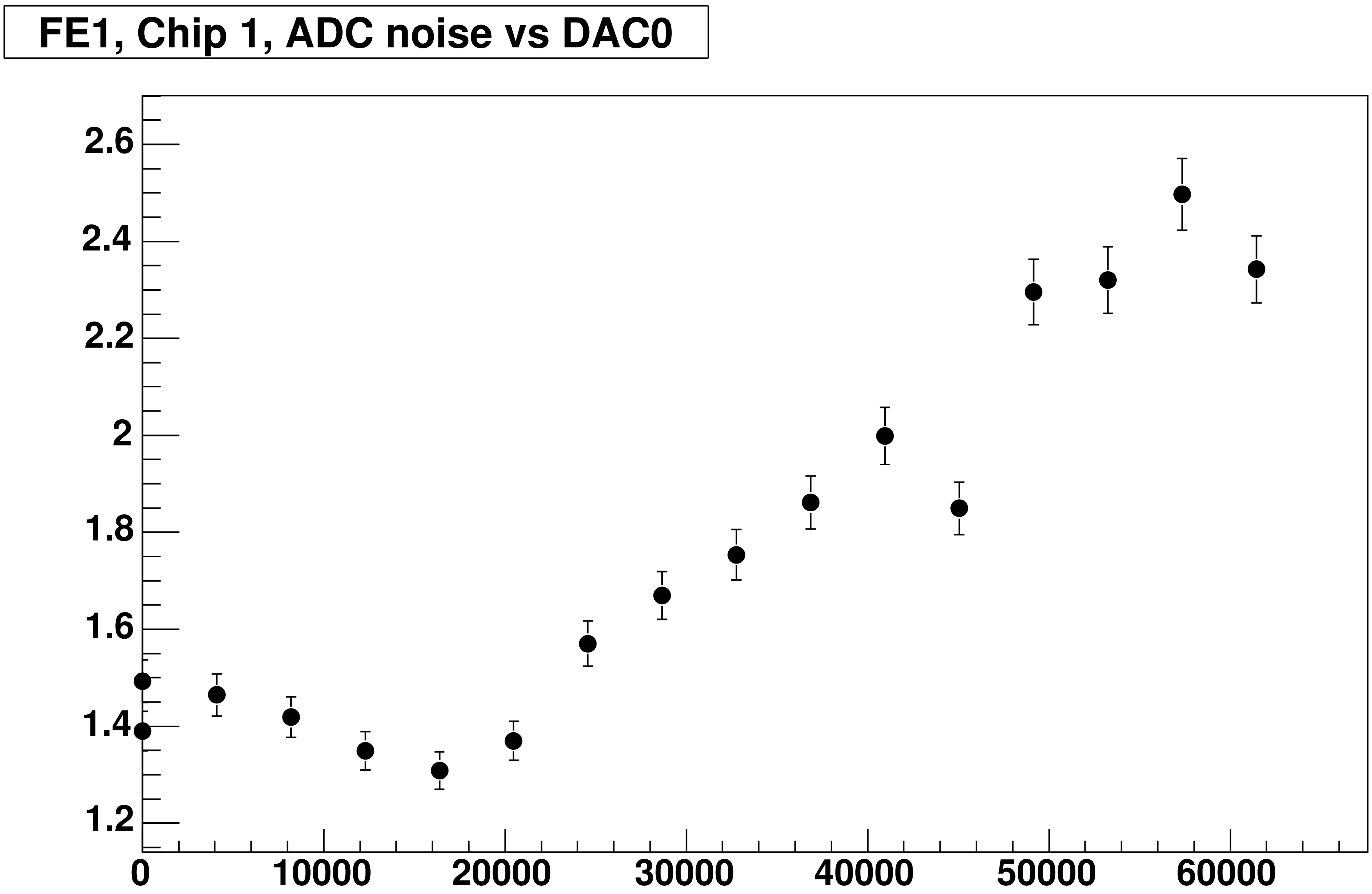

FE1, Chip 0, ADC residuals vs DAC0
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000


FE1, Chip 0, ADC mean vs DAC1
χ² / ndf 25.68 / 11
p0 83.83 ± 0.04067
p1 -2.487e-06 ± 1.14e-06
84
83.9
83.8
83.7
83.6
83.5
83.4
83.3
0
10000
20000
30000
40000
50000
60000

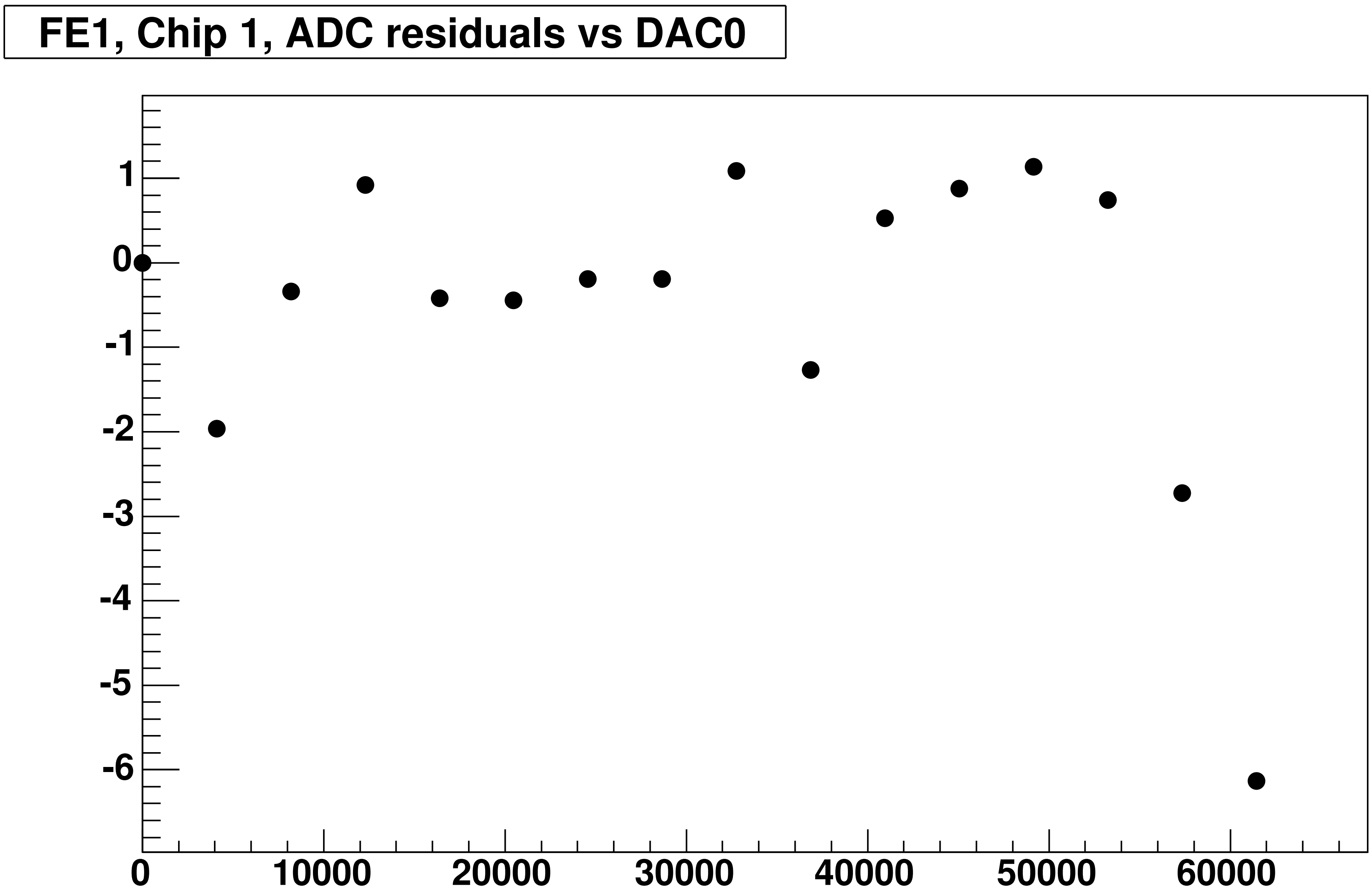

FE1, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


FE1, Chip 0, ADC residuals vs DAC1
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

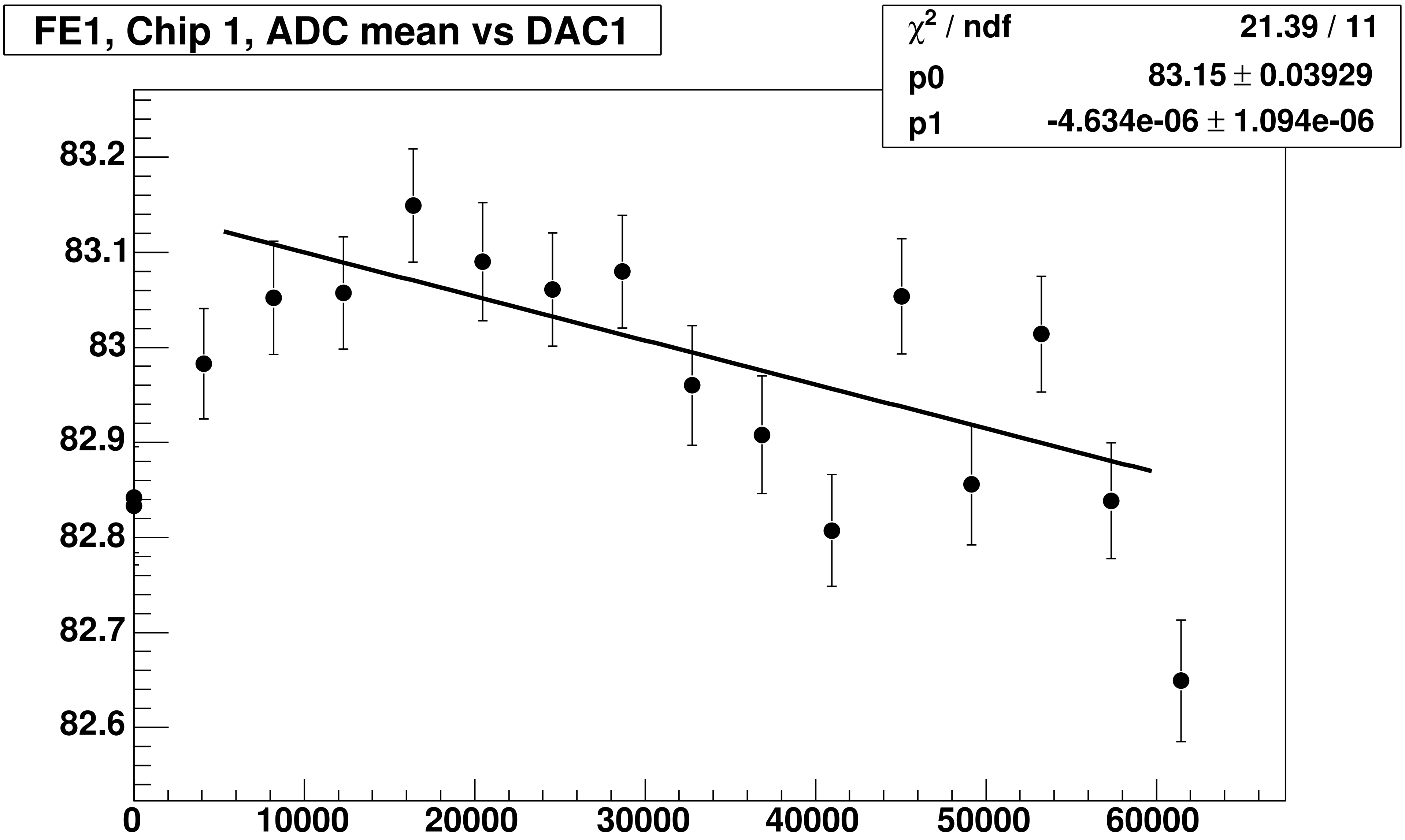

FE1, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1981 / 11
p0 86.94 ± 0.04152
p1 0.452 ± 1.36e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

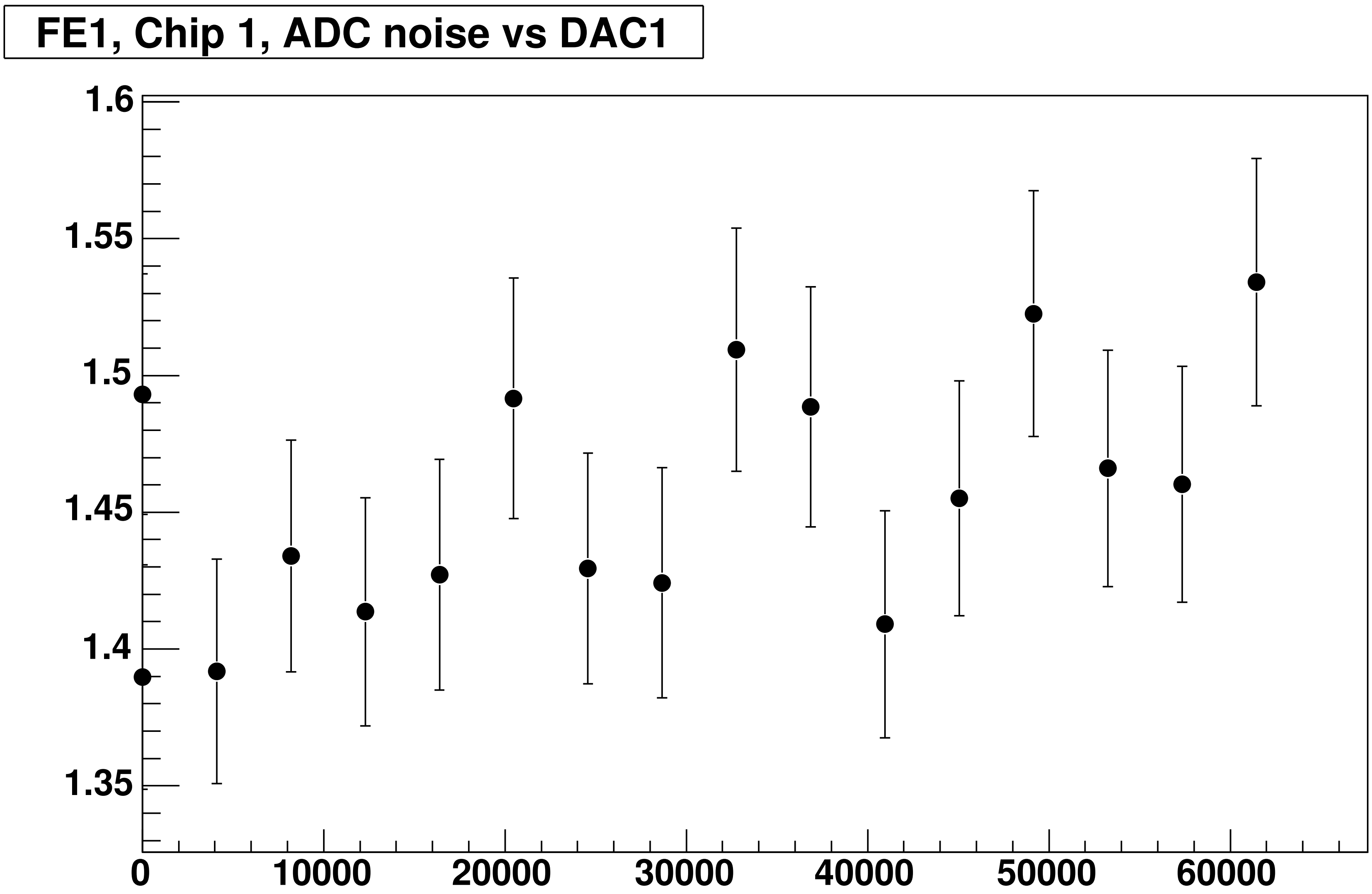


FE1, Chip 1, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

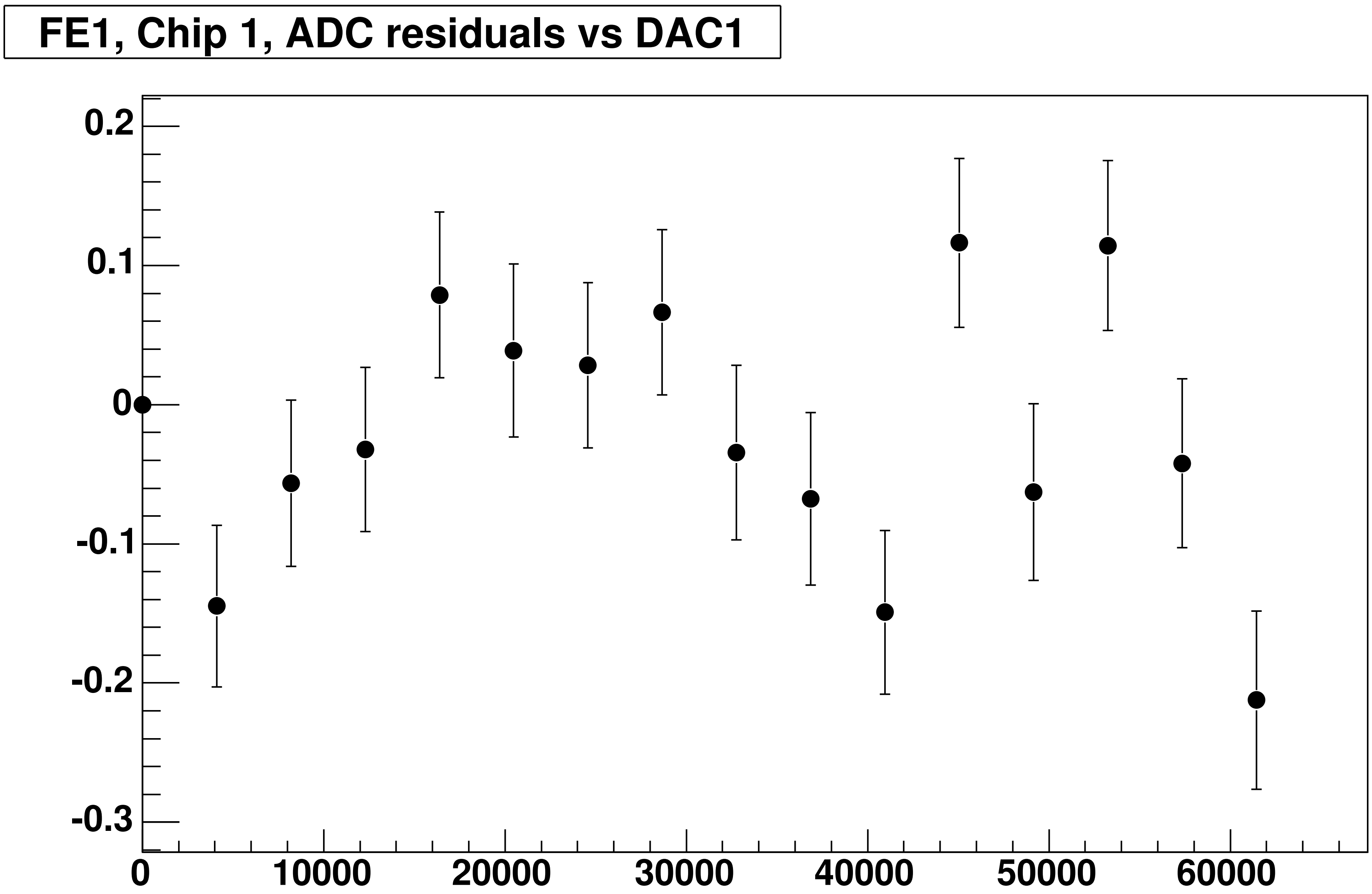


FE1, Chip 1, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

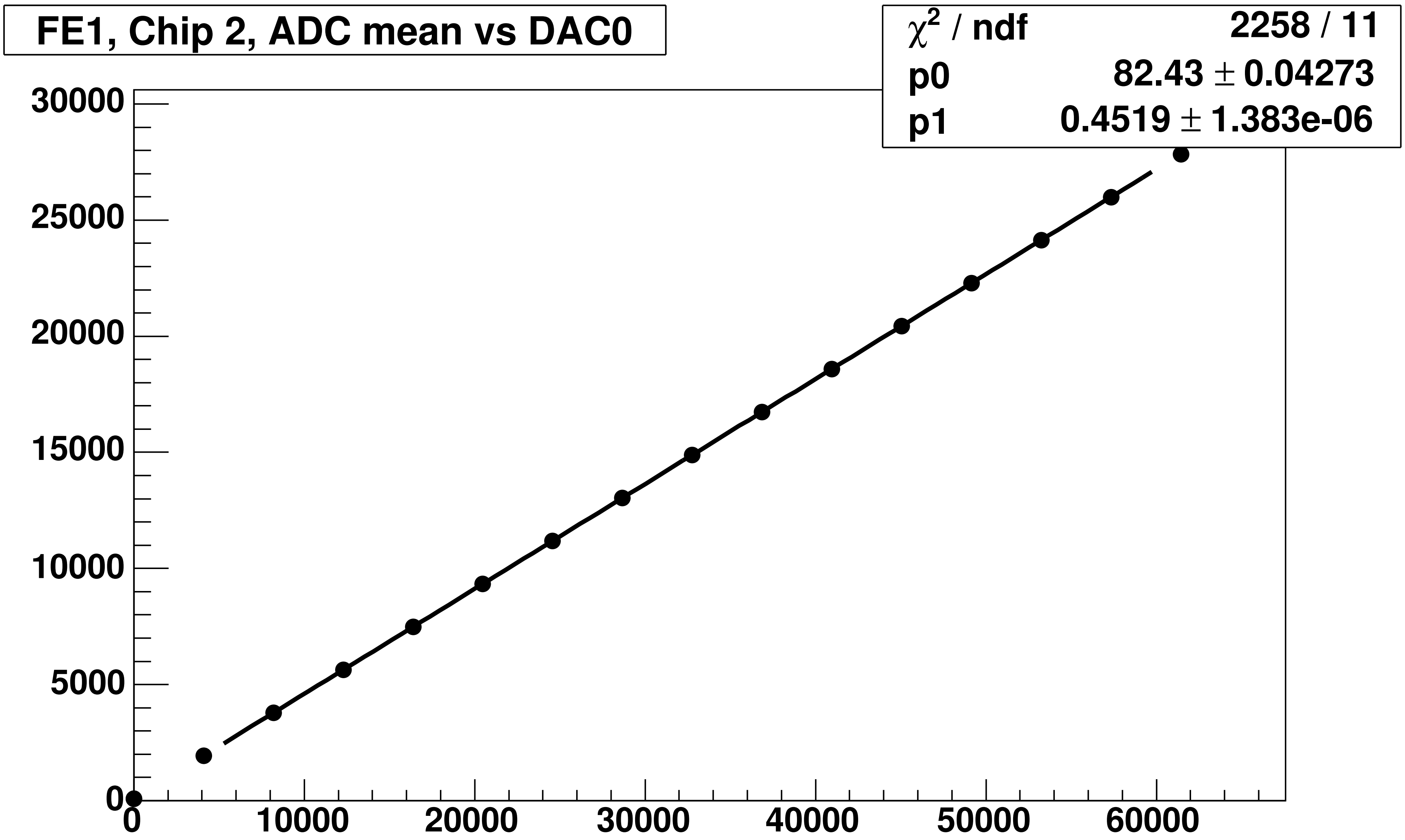

FE1, Chip 1, ADC mean vs DAC1
χ^2 / ndf 21.39 / 11
p0 83.15 ± 0.03929
p1 -4.634e-06 ± 1.094e-06
83.2
83.1
83
82.9
82.8
82.7
82.6
0
10000
20000
30000
40000
50000
60000

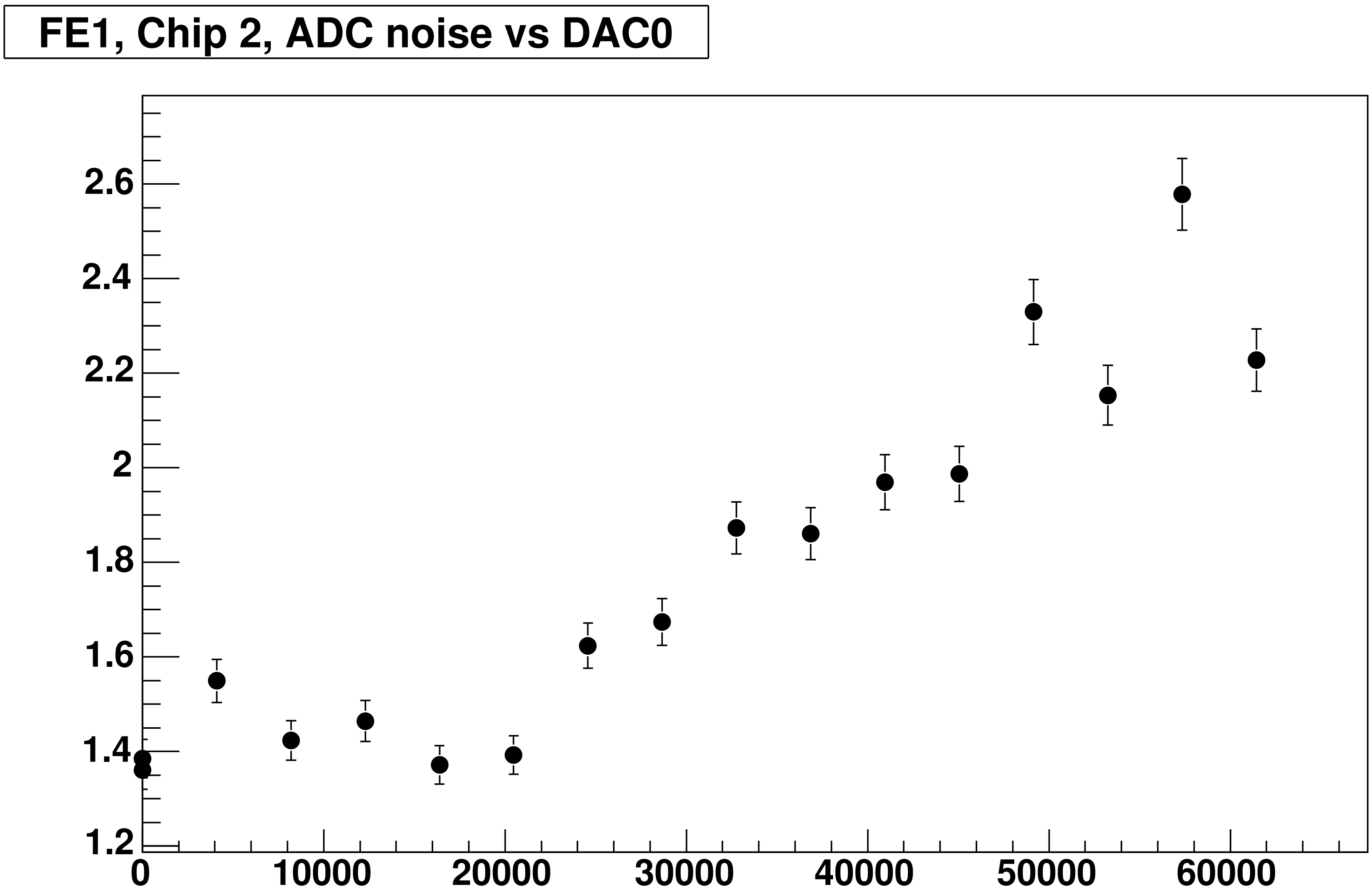


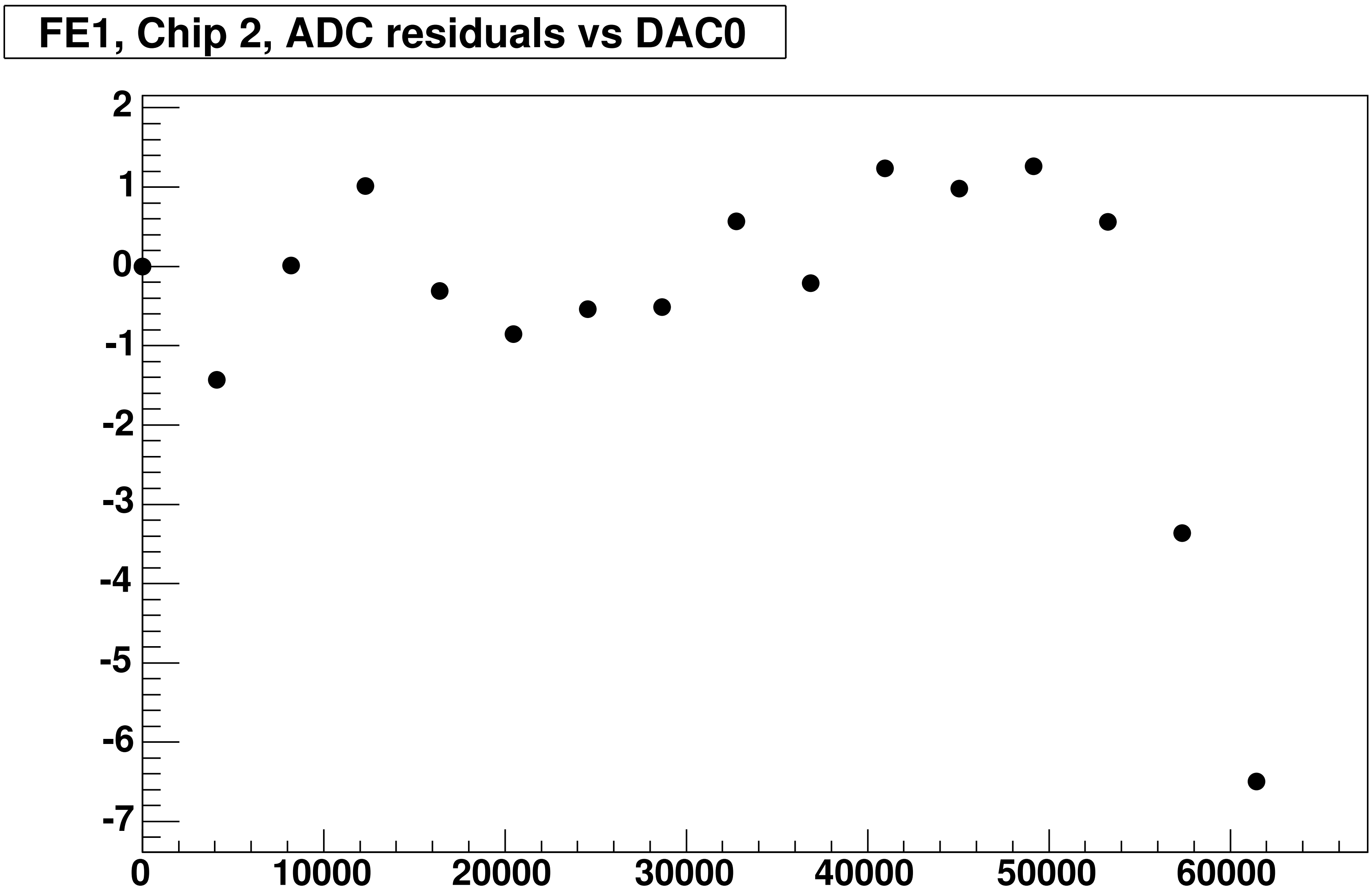
FE1, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

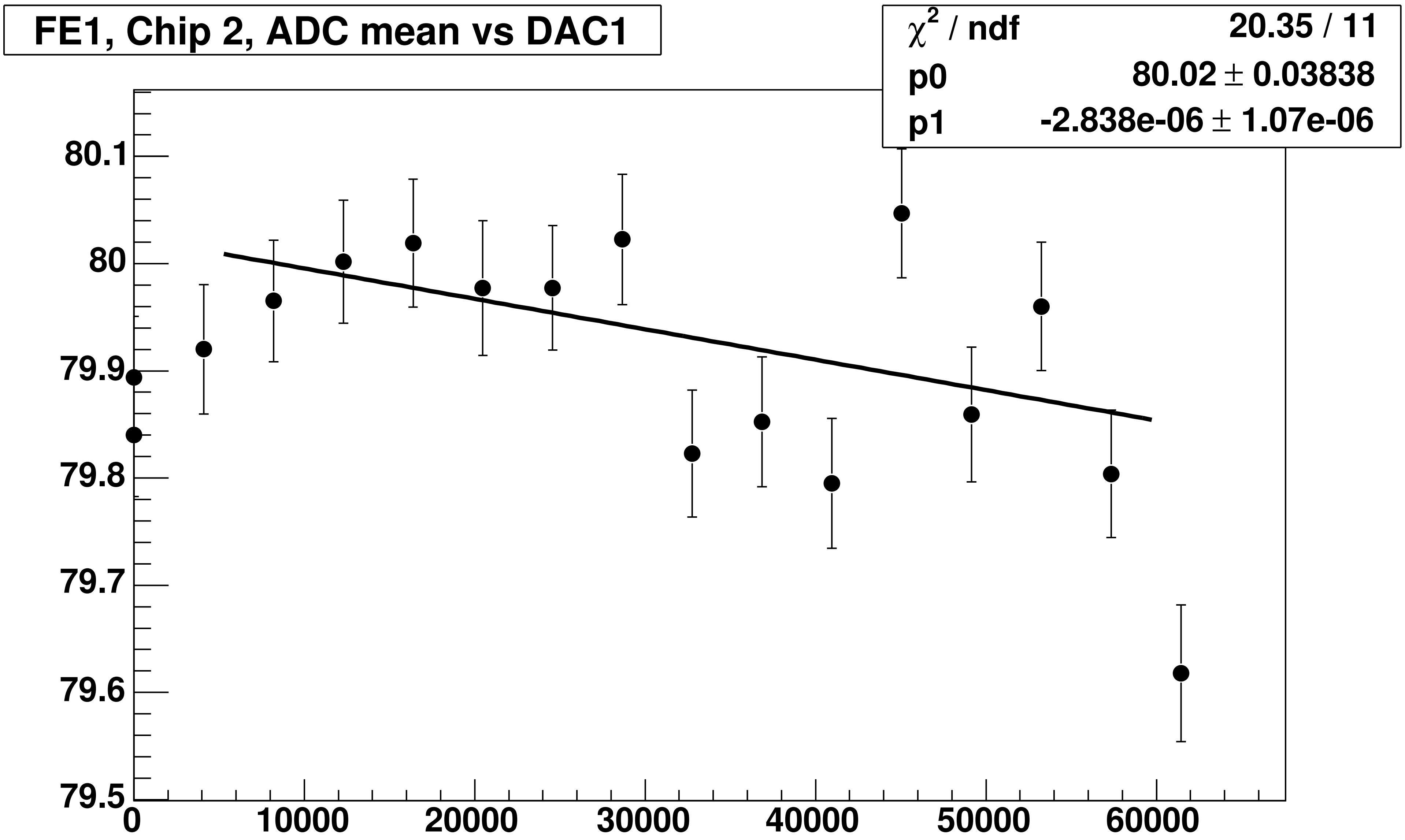


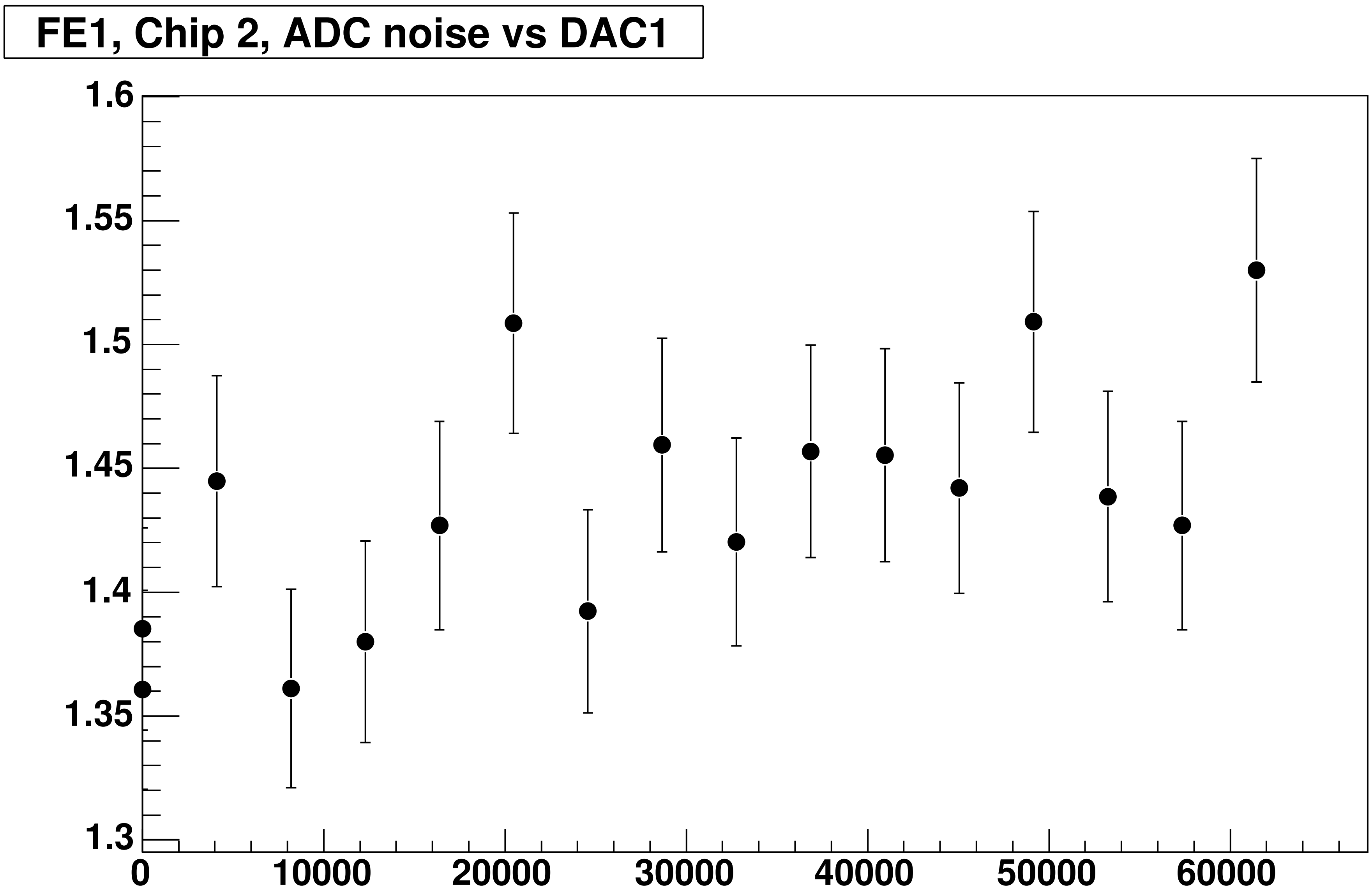
FE1, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

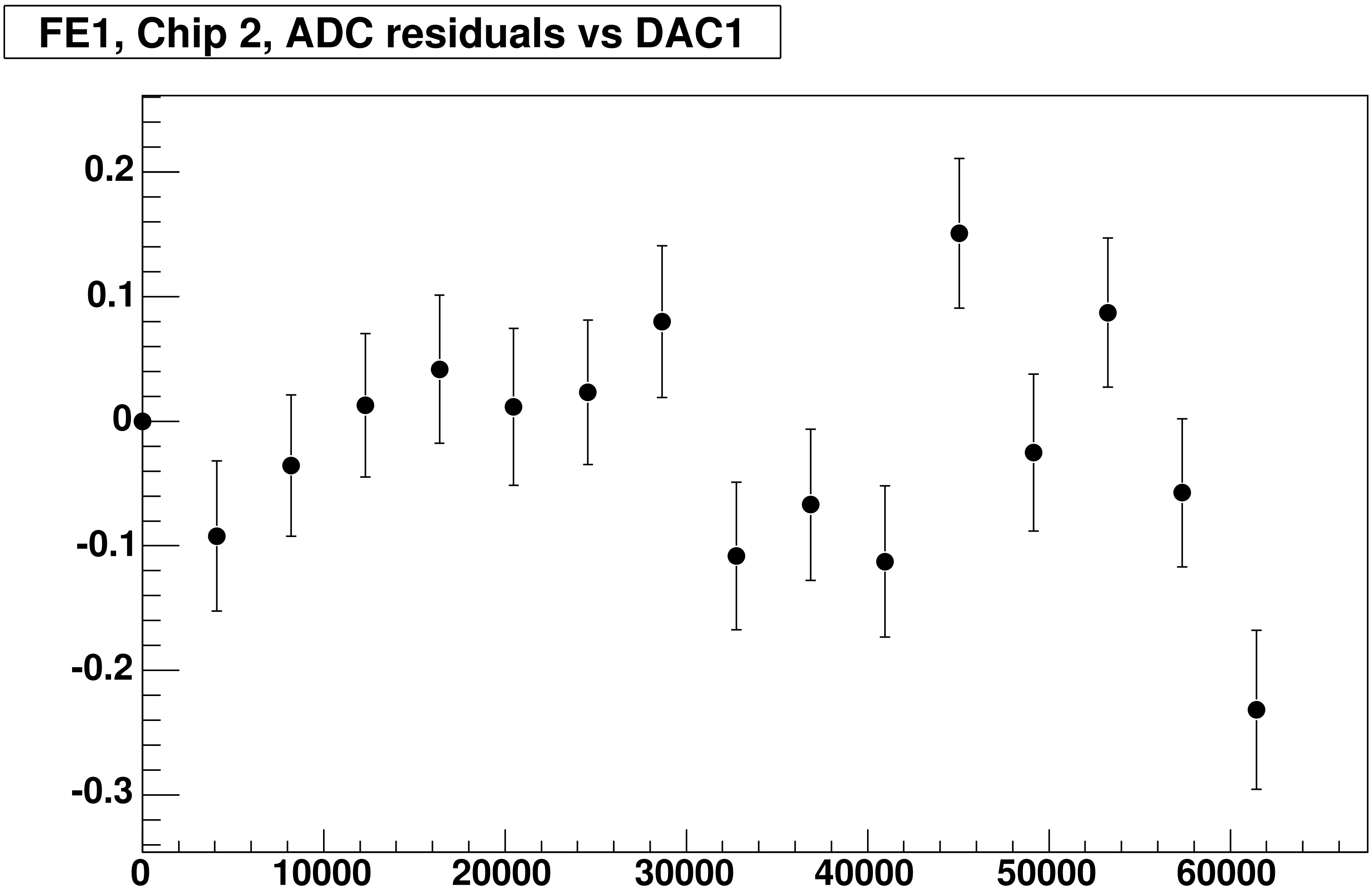

FE1, Chip 2, ADC mean vs DAC0
χ2 / ndf 2258 / 11
p0 82.43 ± 0.04273
p1 0.4519 ± 1.383e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

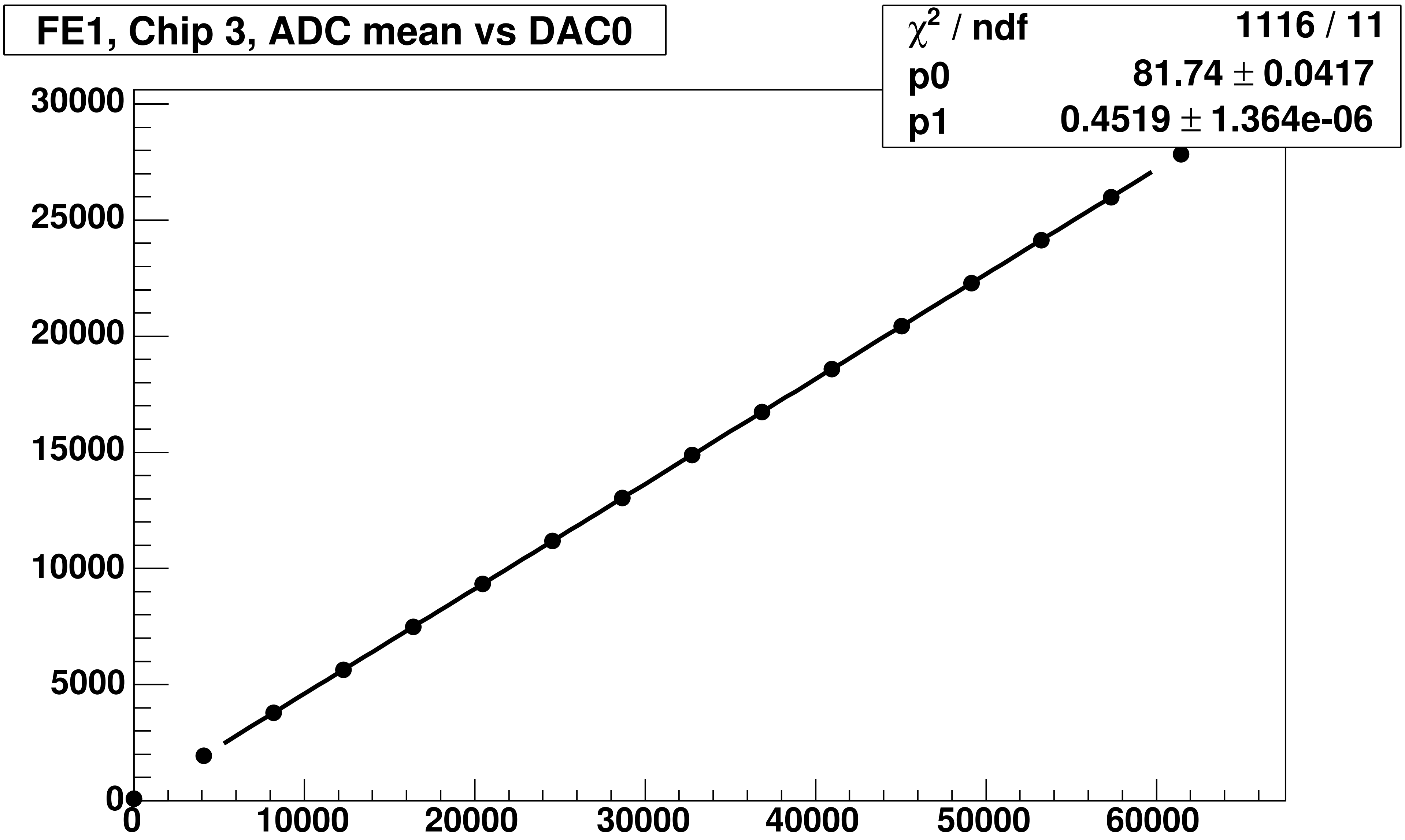

FE1, Chip 2, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE1, Chip 2, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

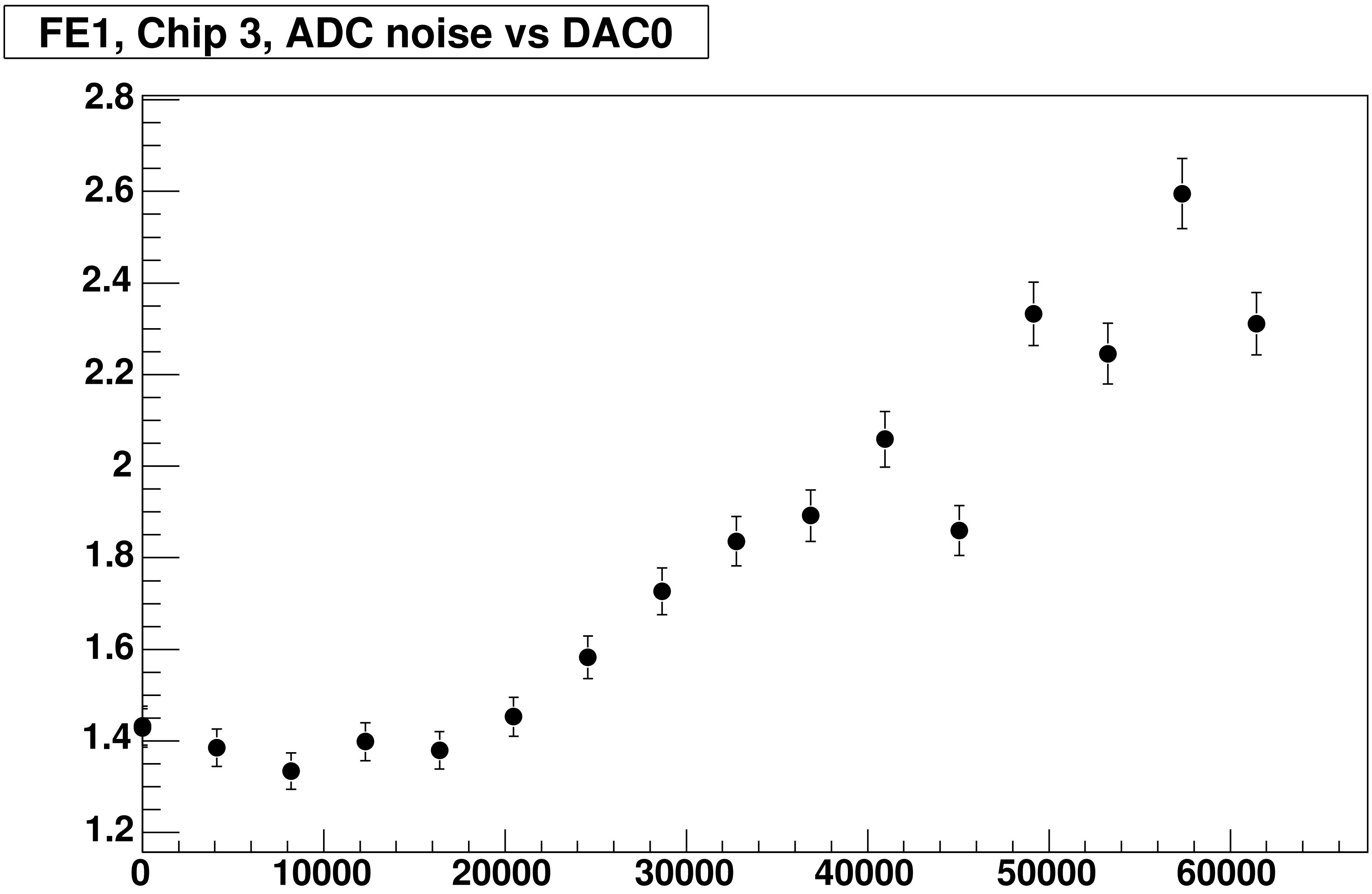

FE1, Chip 2, ADC mean vs DAC1
χ² / ndf 20.35 / 11
p0 80.02 ± 0.03838
p1 -2.838e-06 ± 1.07e-06
80.1
80
79.9
79.8
79.7
79.6
79.5
0
10000
20000
30000
40000
50000
60000

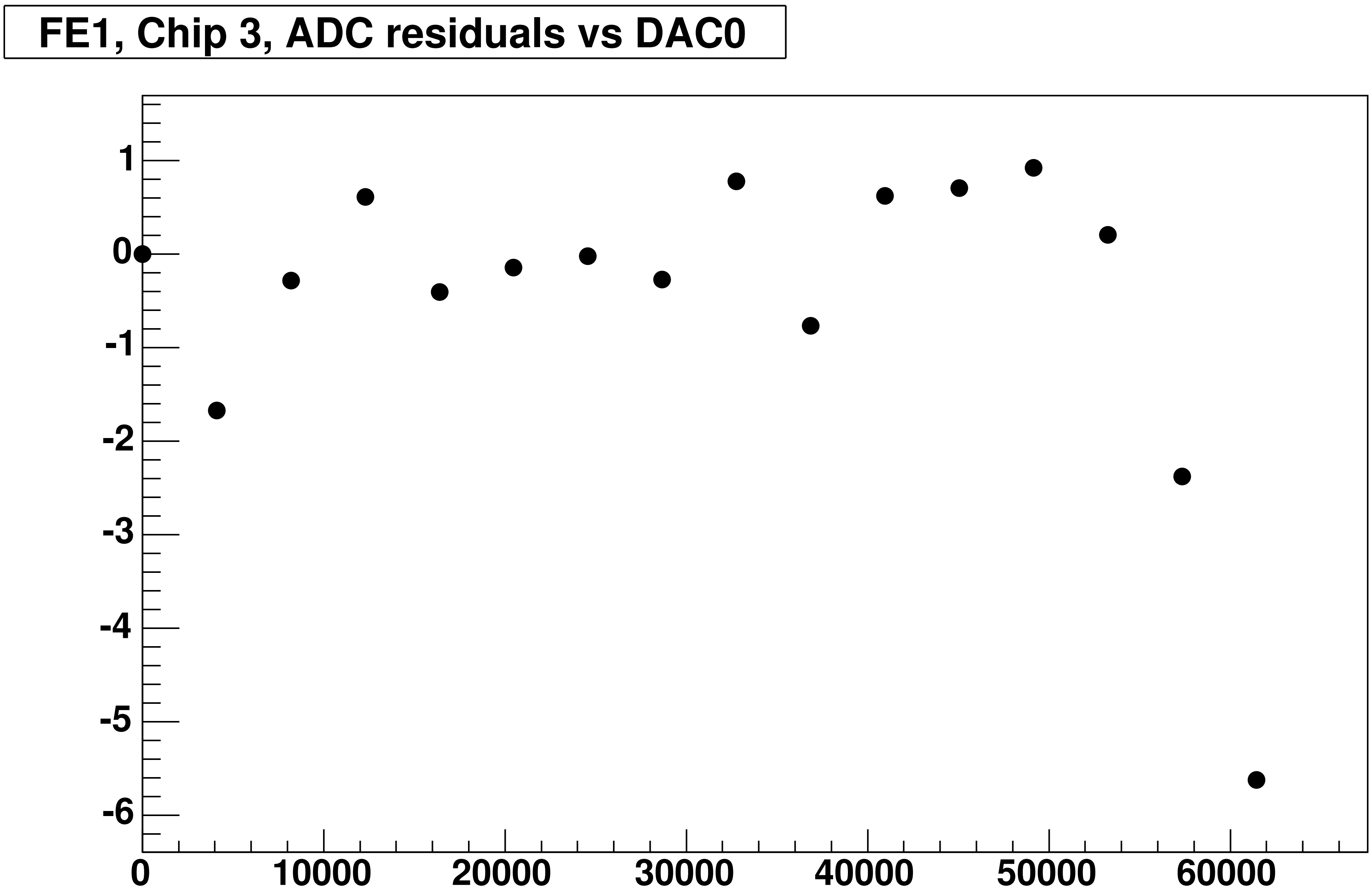

FE1, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

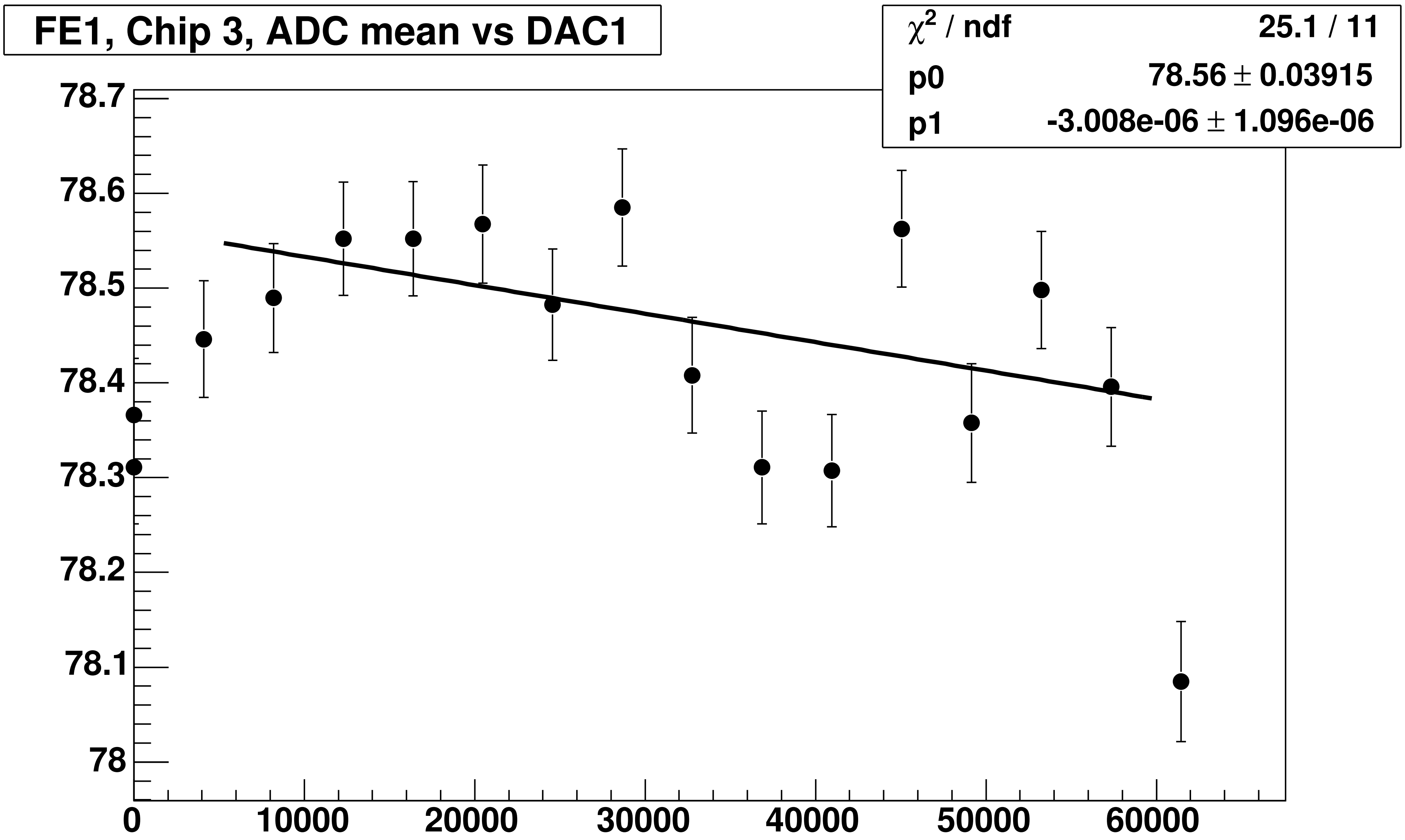

FE1, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



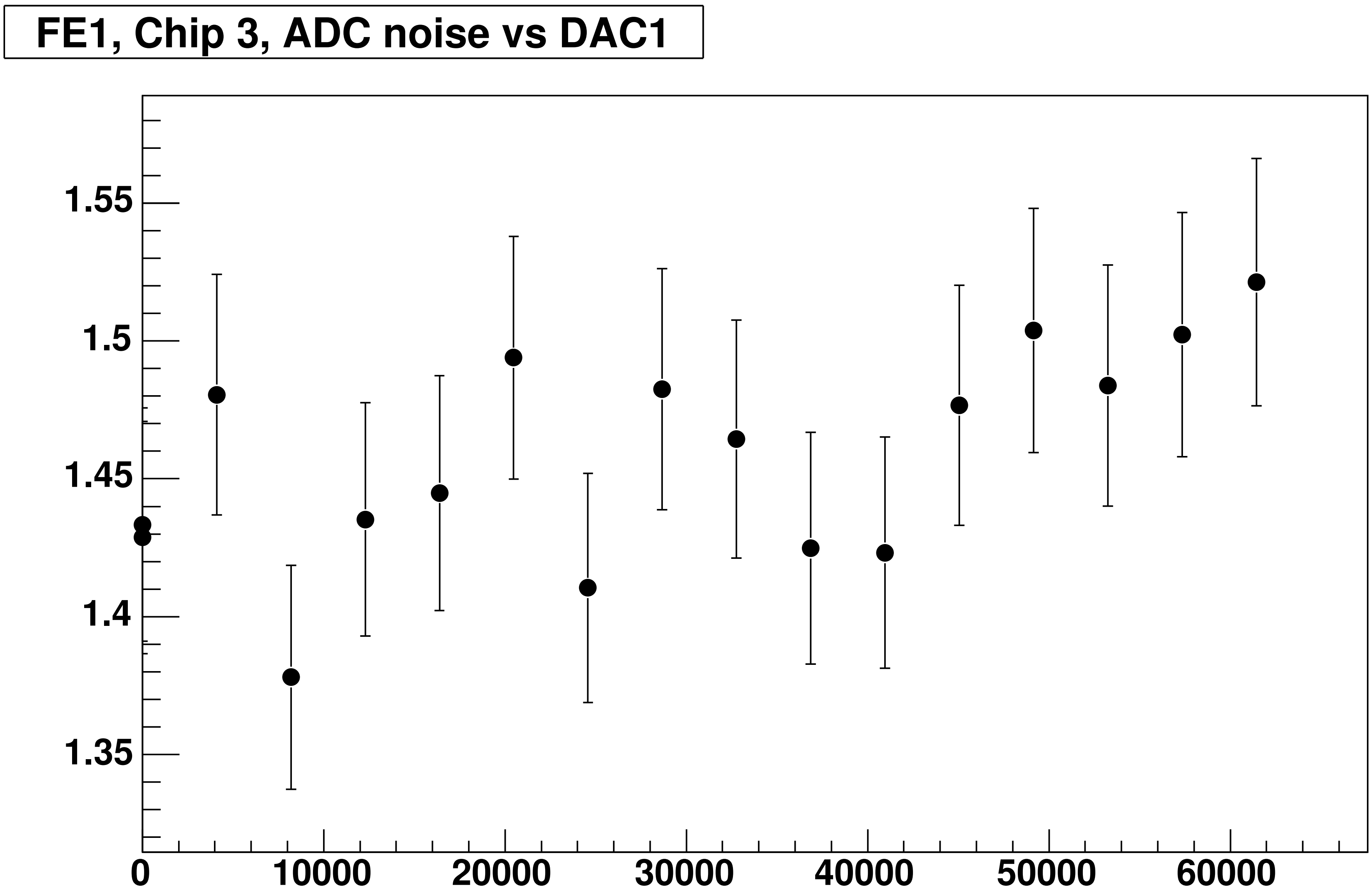
FE1, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1116 / 11
p0 81.74 ± 0.0417
p1 0.4519 ± 1.364e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

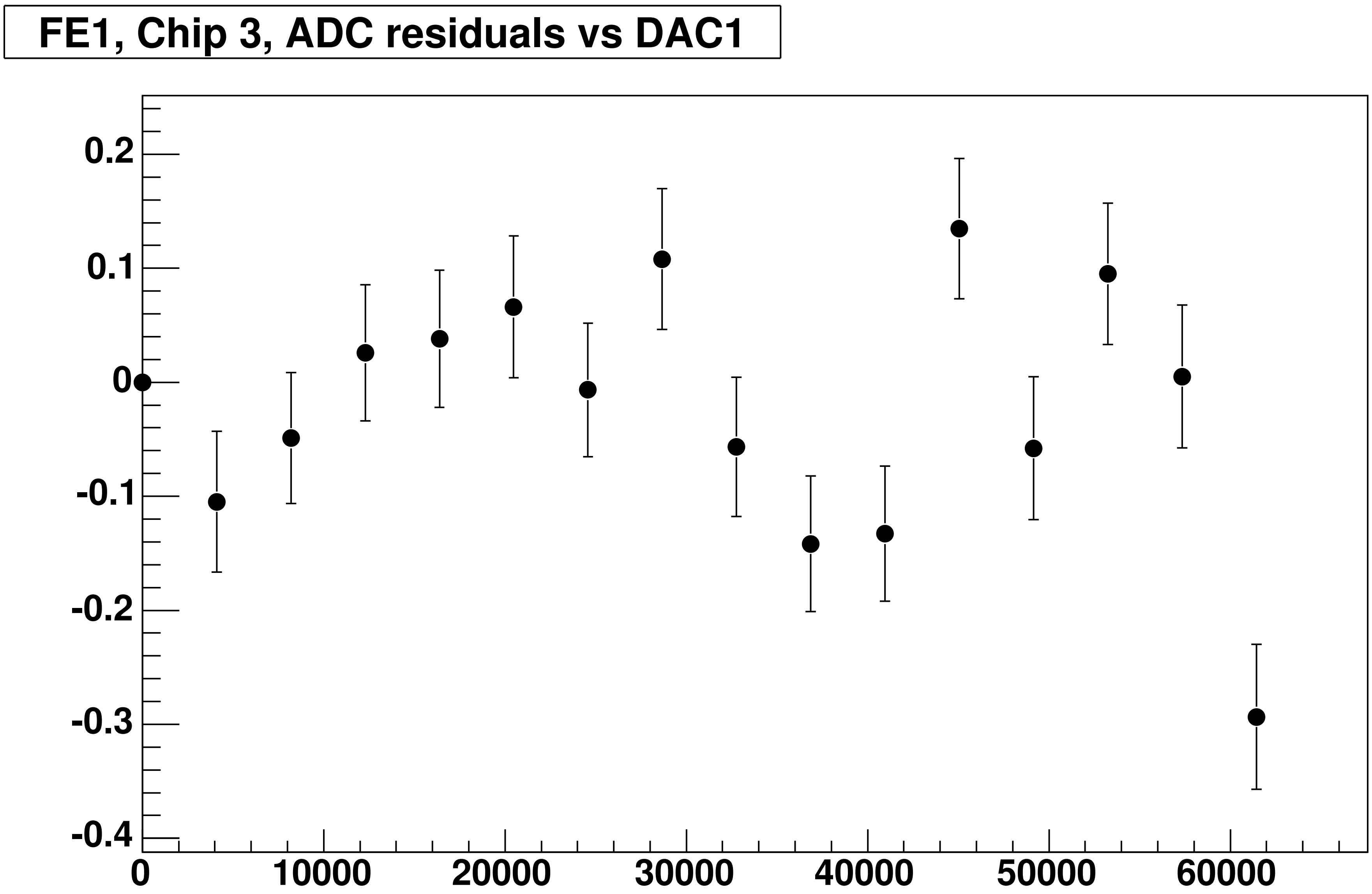

FE1, Chip 3, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

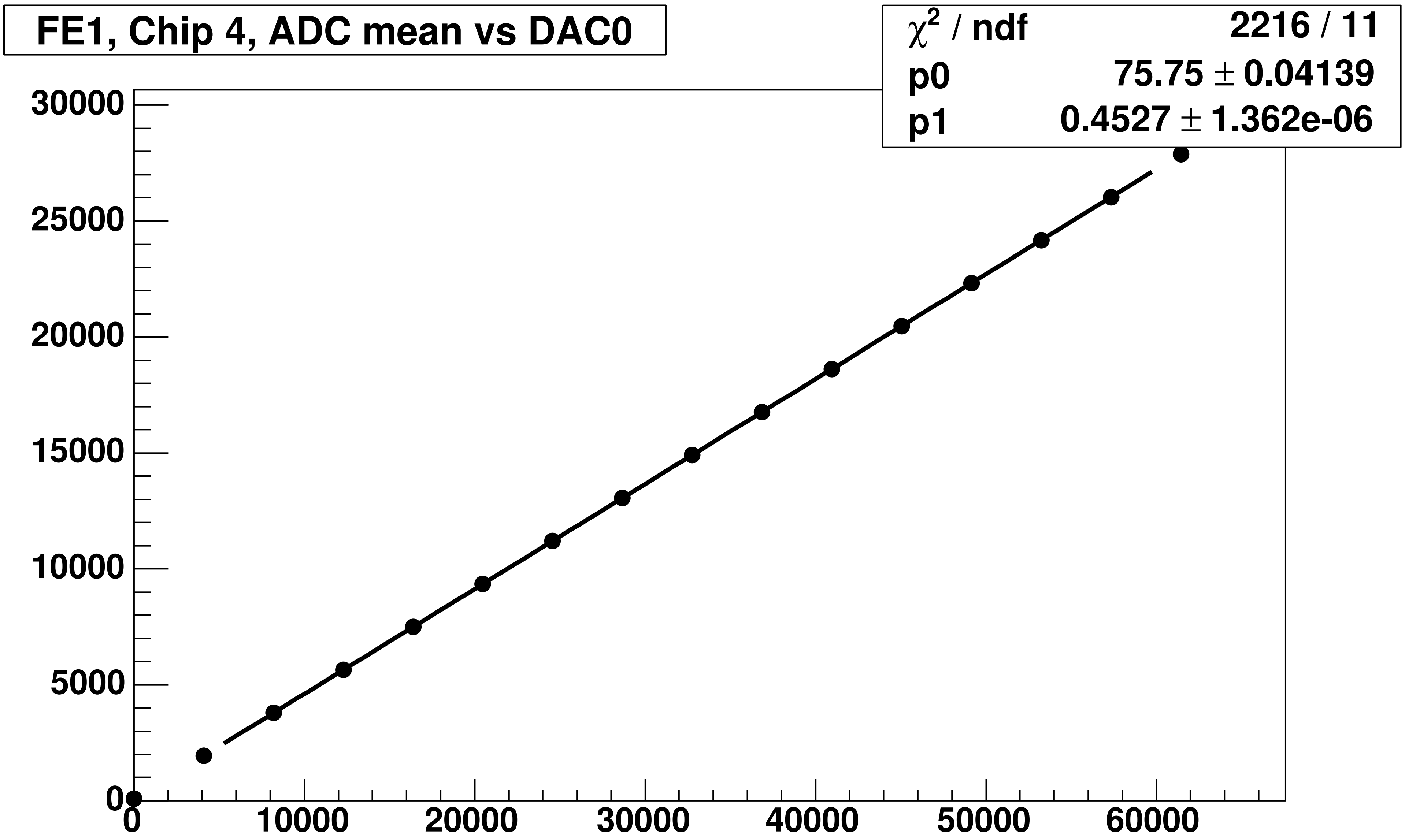

FE1, Chip 3, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



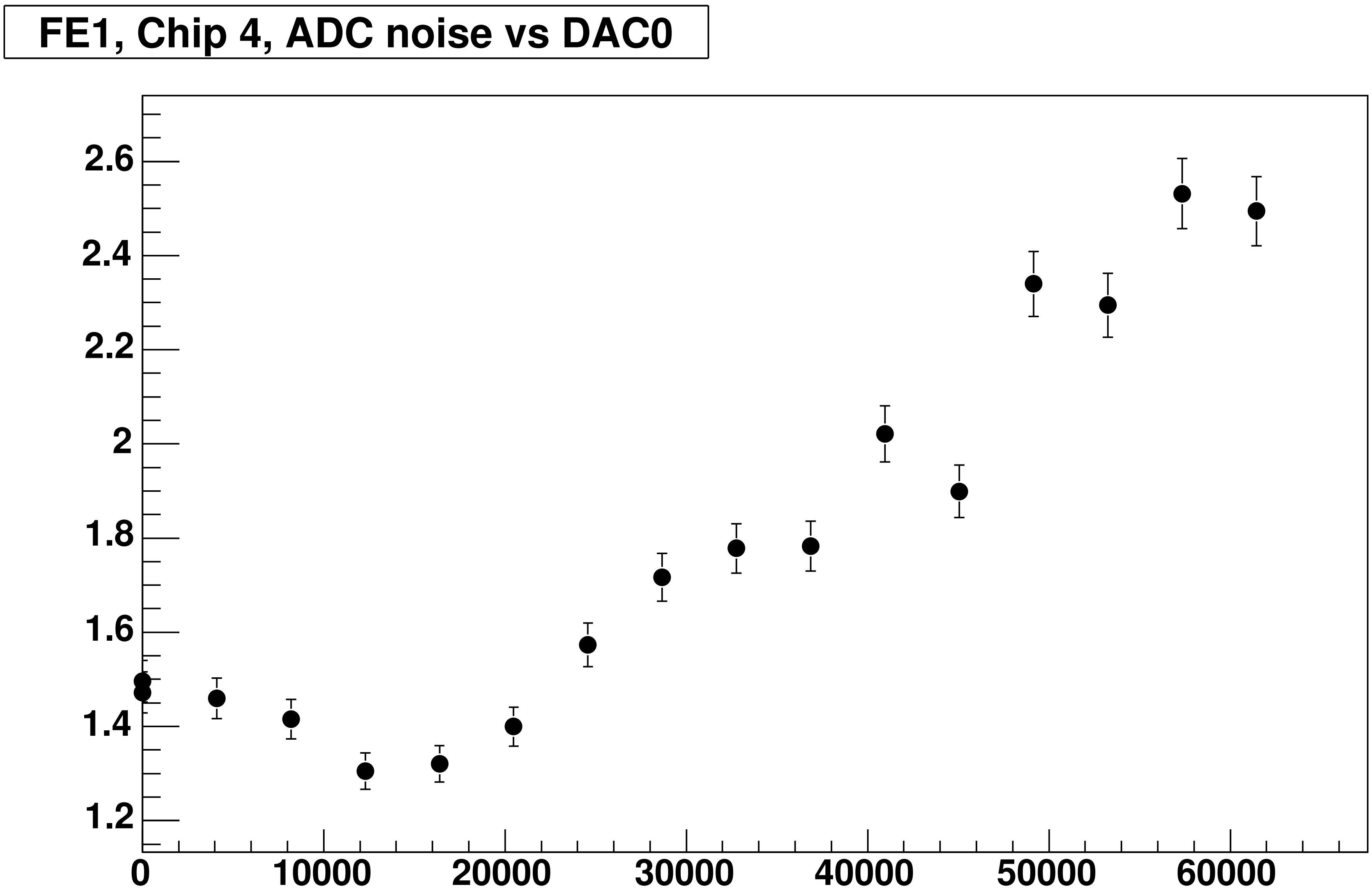
FE1, Chip 3, ADC mean vs DAC1
χ^2 / ndf 25.1 / 11
p0 78.56 ± 0.03915
p1 -3.008e-06 ± 1.096e-06
78.7
78.6
78.5
78.4
78.3
78.2
78.1
78
0
10000
20000
30000
40000
50000
60000

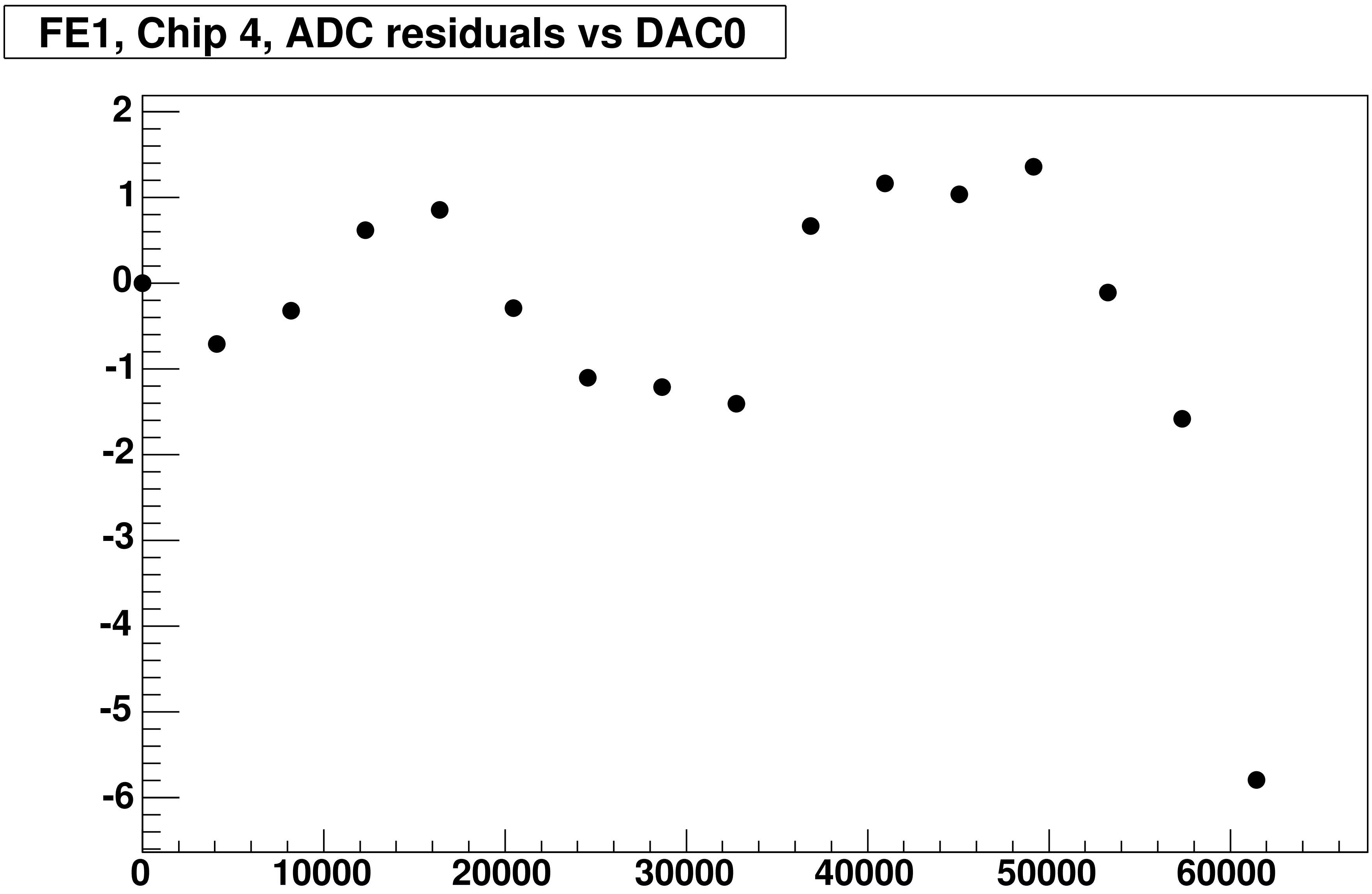

FE1, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

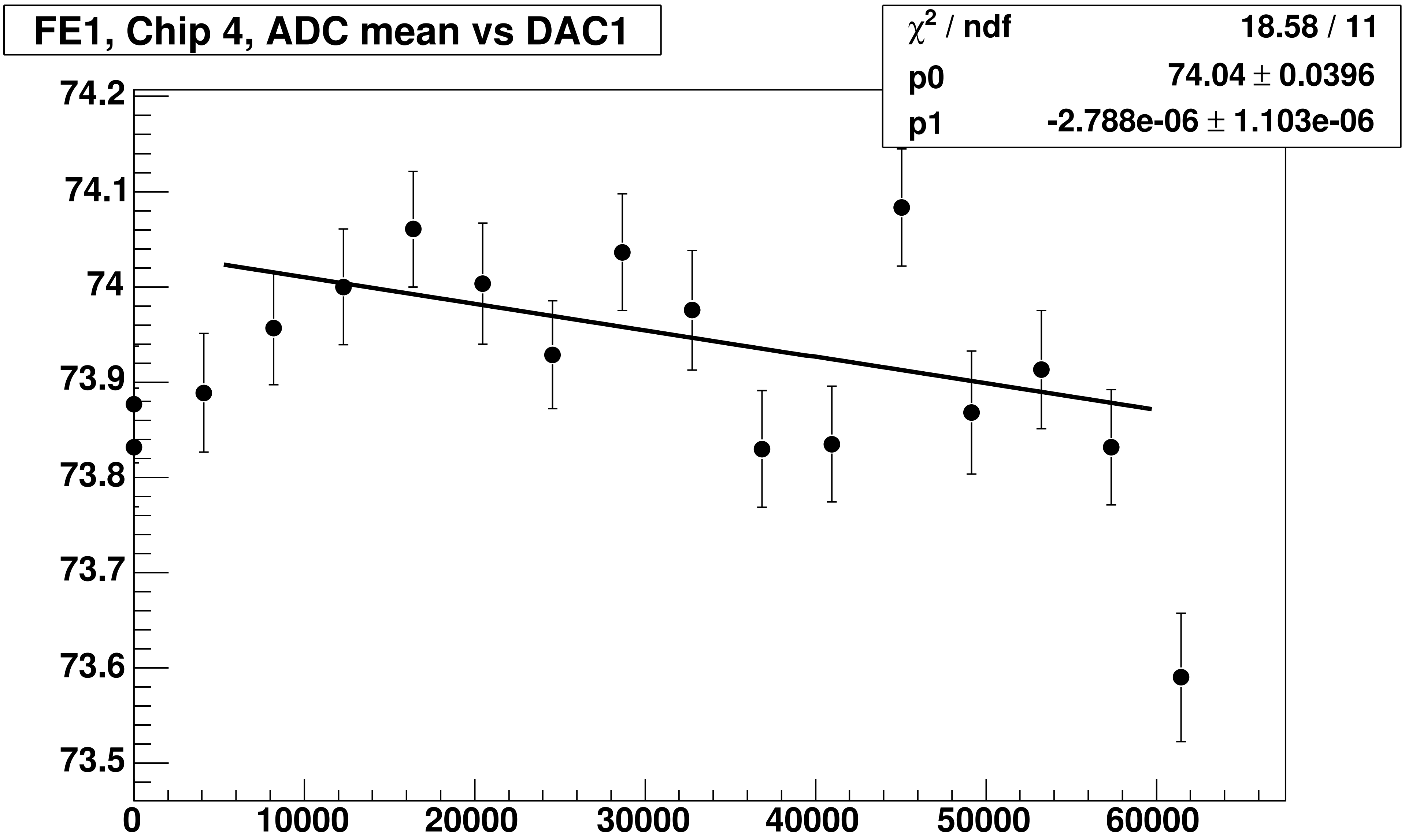

FE1, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

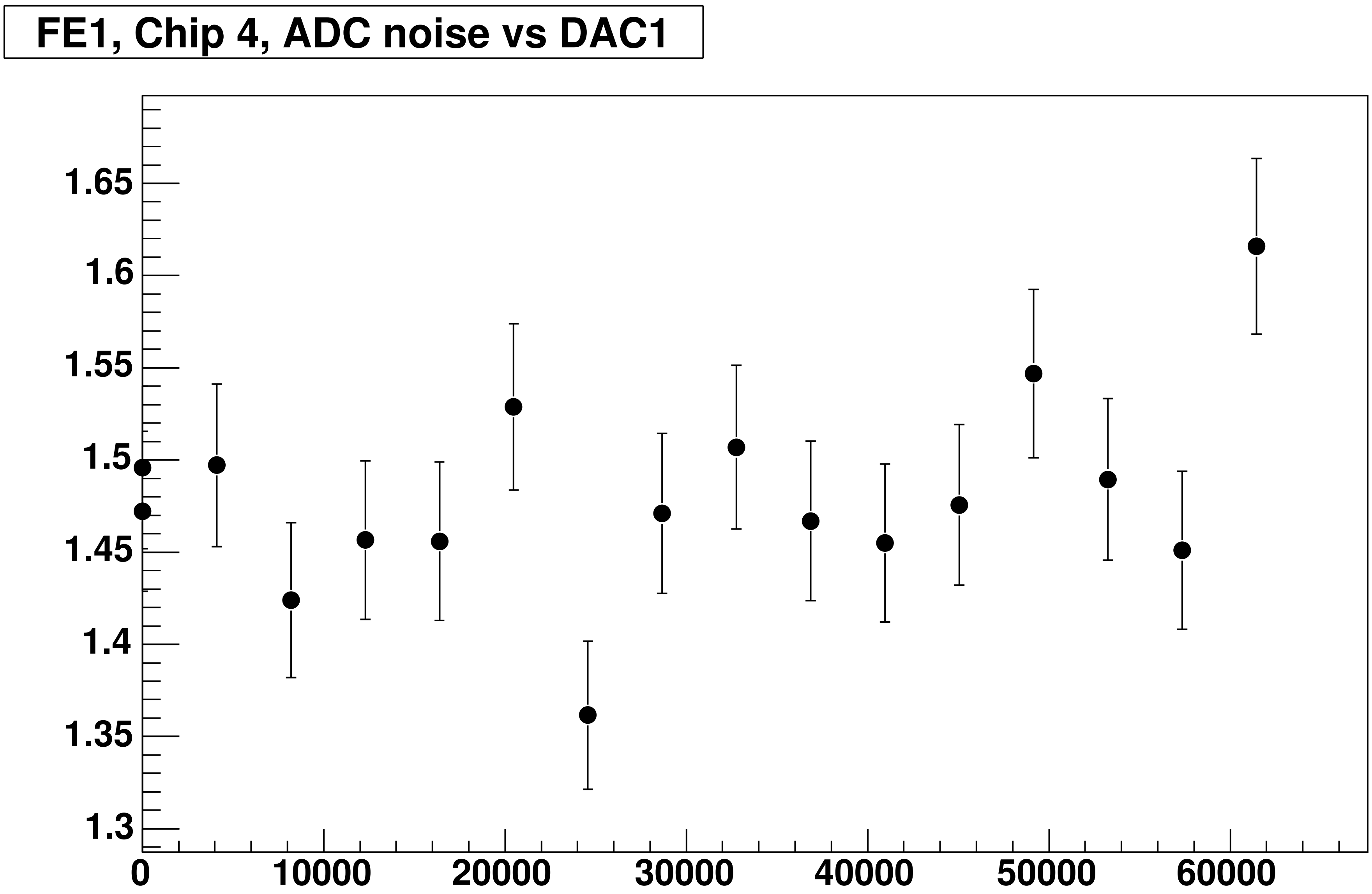


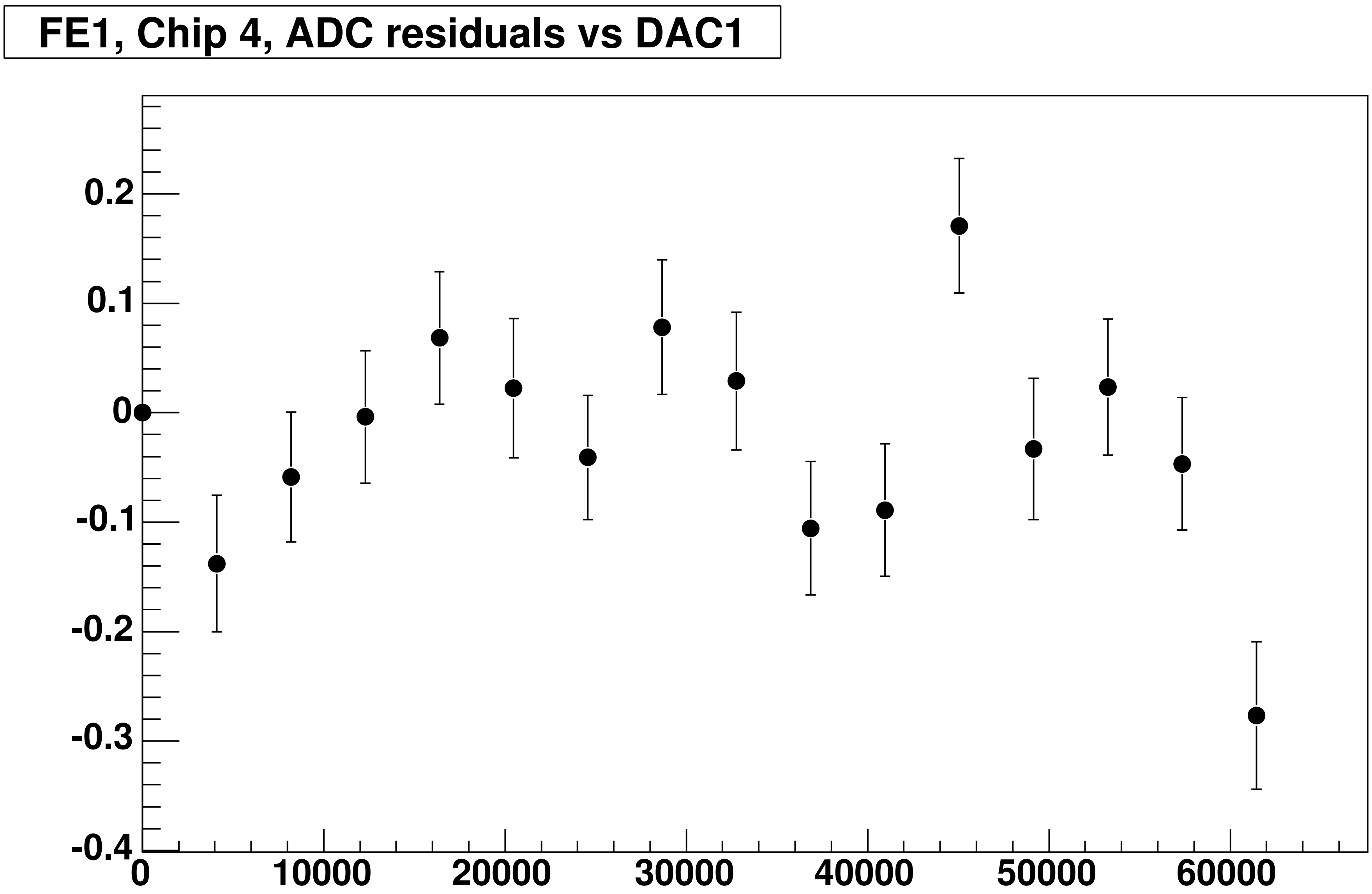
FE1, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2216 / 11
p0 75.75 ± 0.04139
p1 0.4527 ± 1.362e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

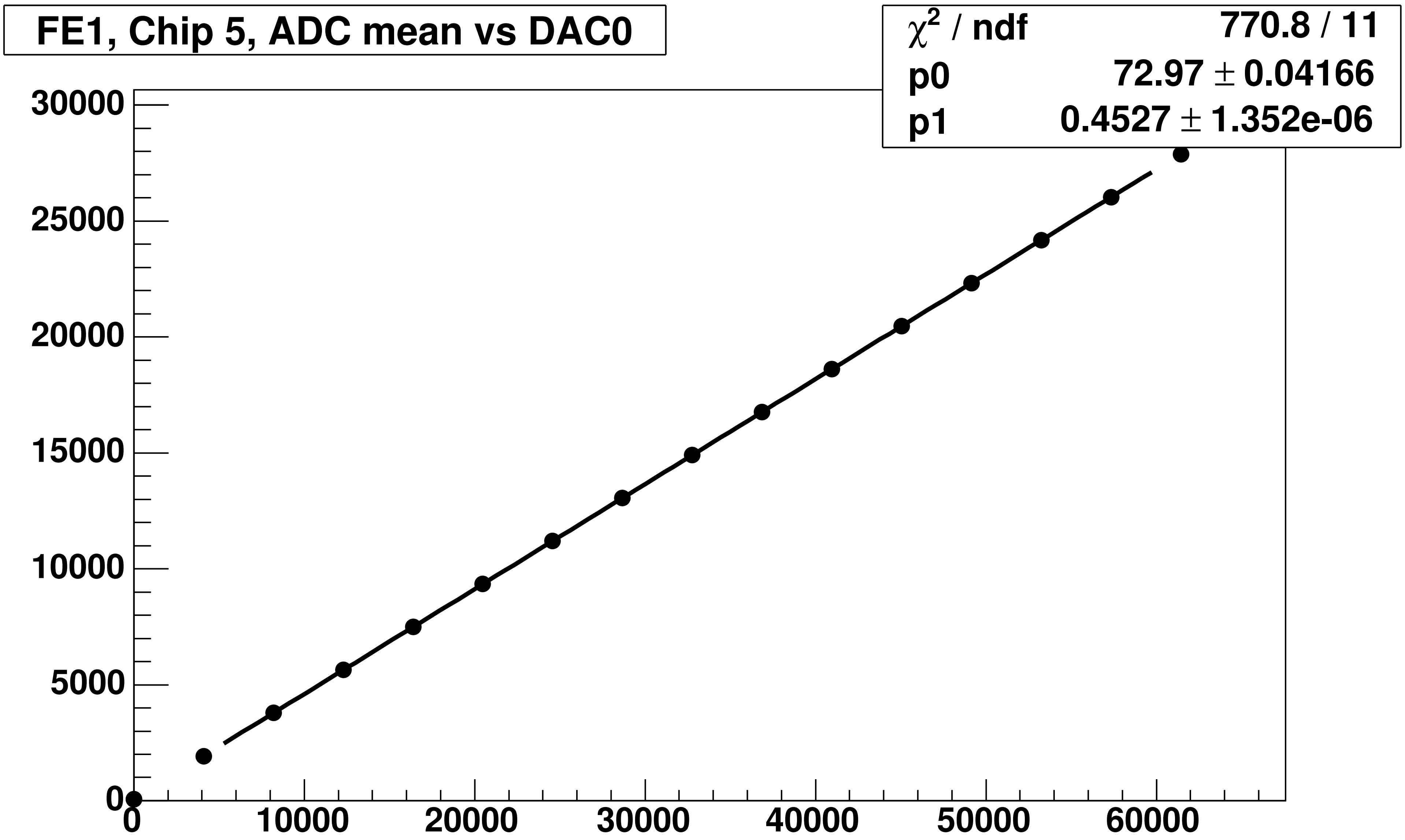

FE1, Chip 4, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

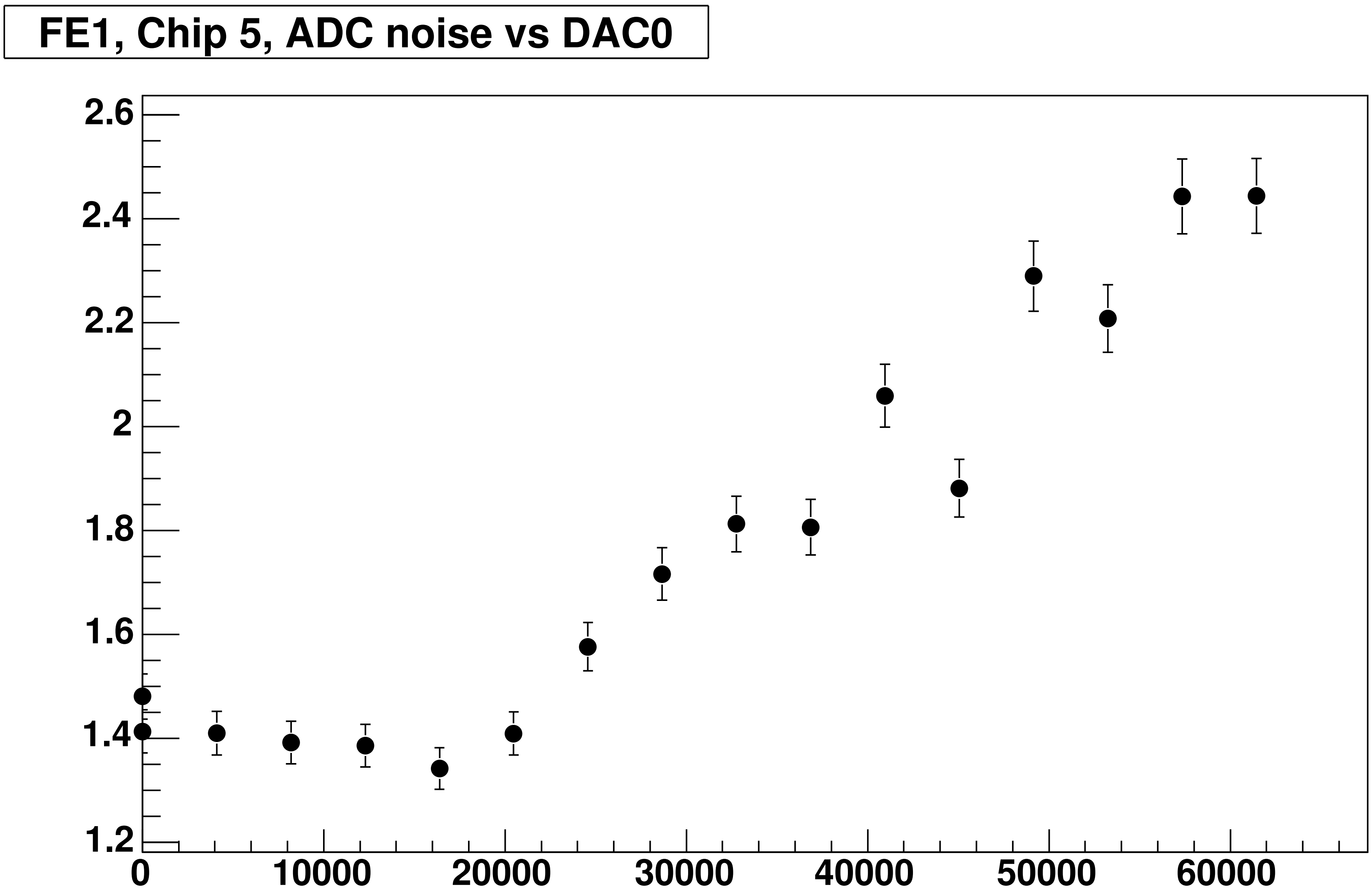

FE1, Chip 4, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

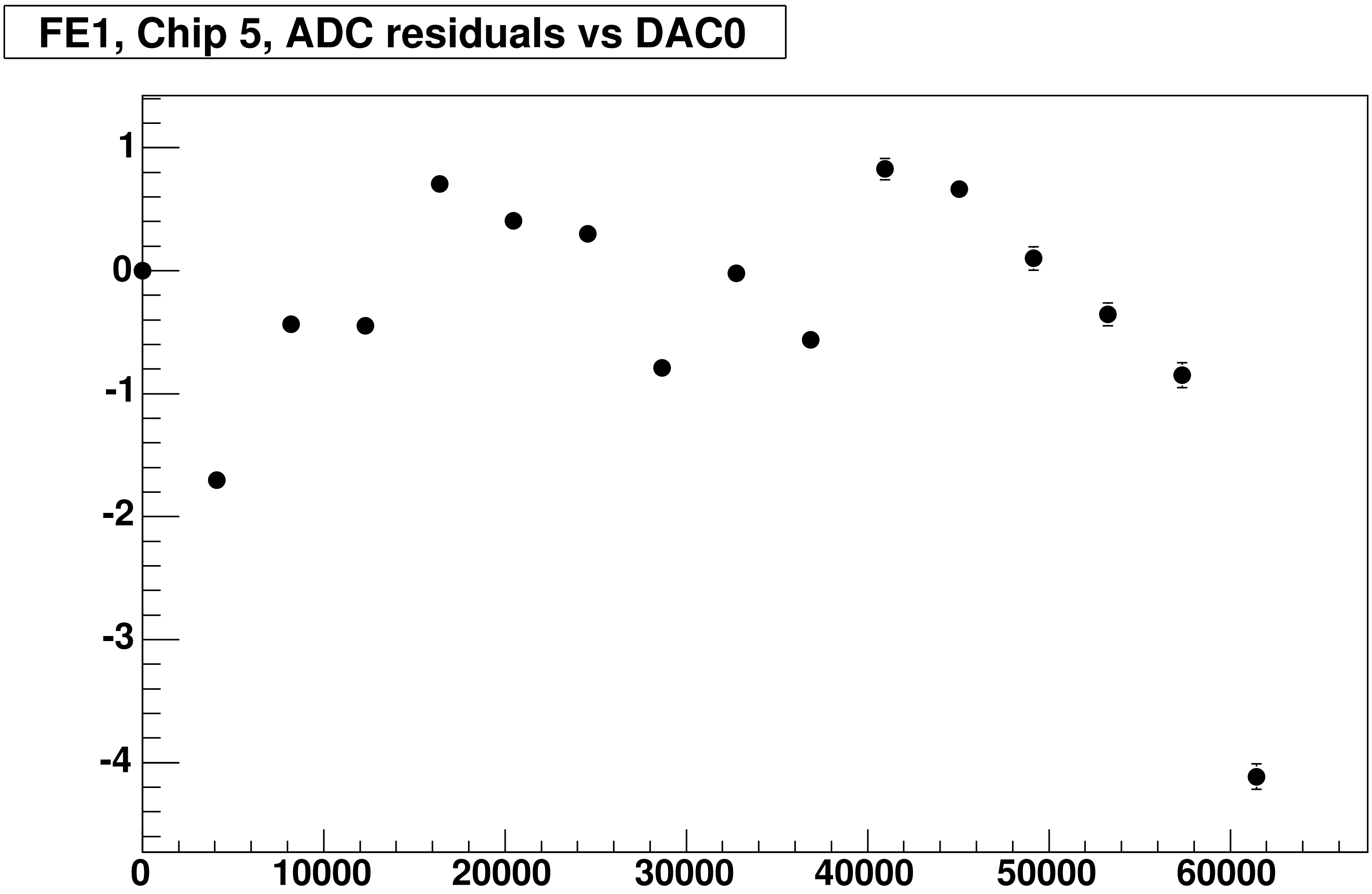

FE1, Chip 4, ADC mean vs DAC1
χ^2 / ndf 18.58 / 11
p0 74.04 ± 0.0396
p1 -2.788e-06 ± 1.103e-06
74.2
74.1
74
73.9
73.8
73.7
73.6
73.5
0
10000
20000
30000
40000
50000
60000

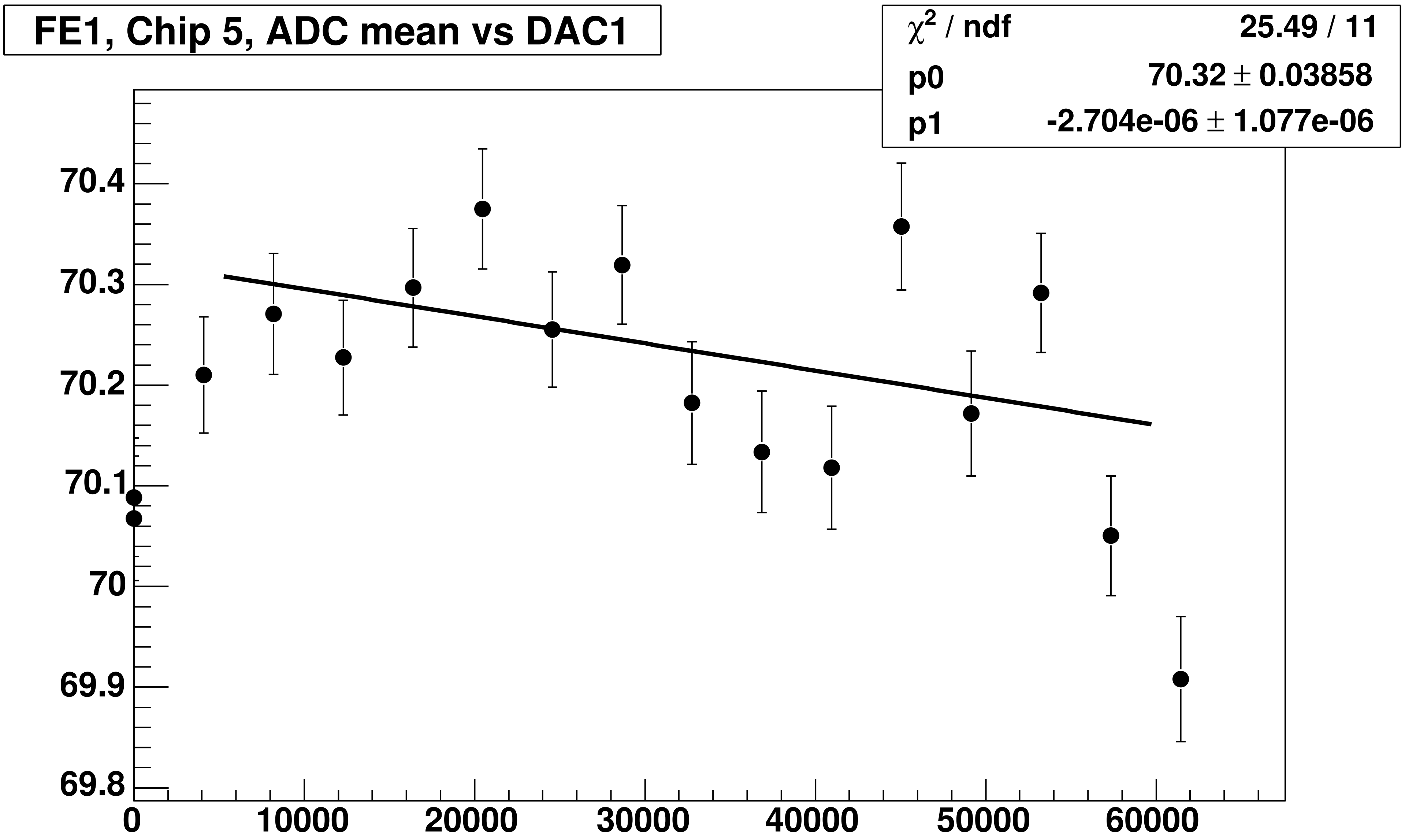

FE1, Chip 4, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

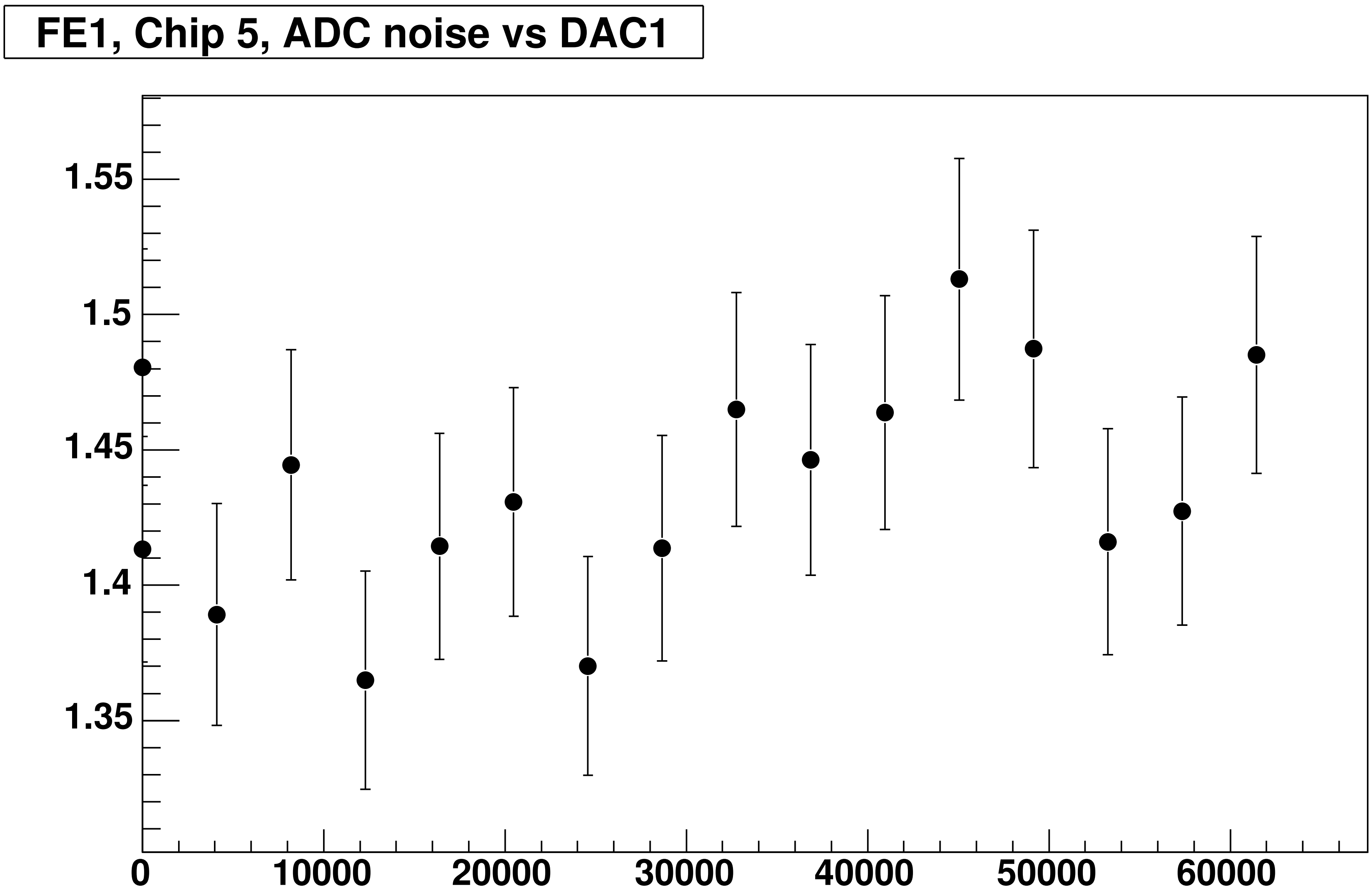

FE1, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000


FE1, Chip 5, ADC mean vs DAC0
χ^2 / ndf 770.8 / 11
p0 72.97 ± 0.04166
p1 0.4527 ± 1.352e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

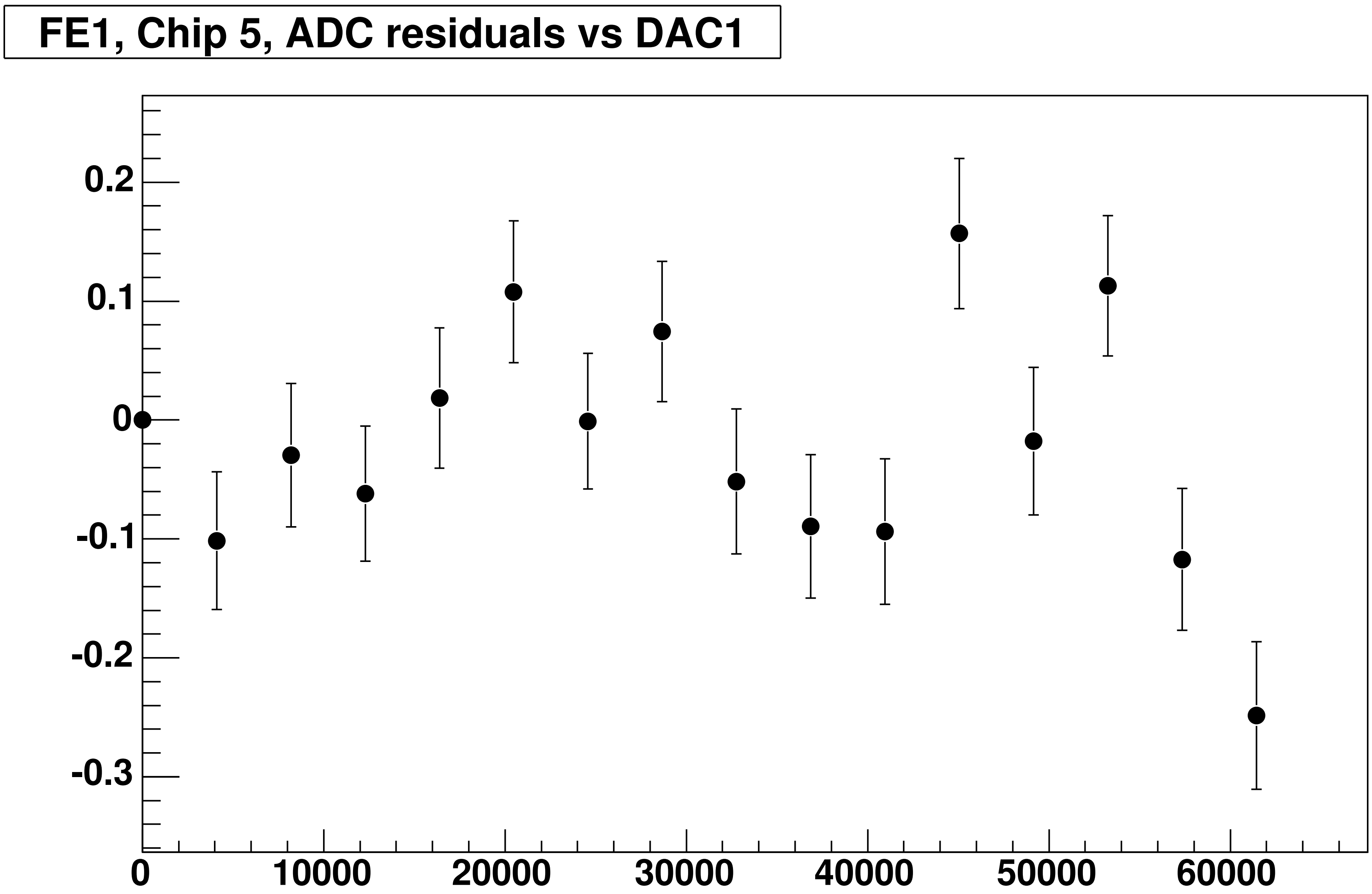

FE1, Chip 5, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

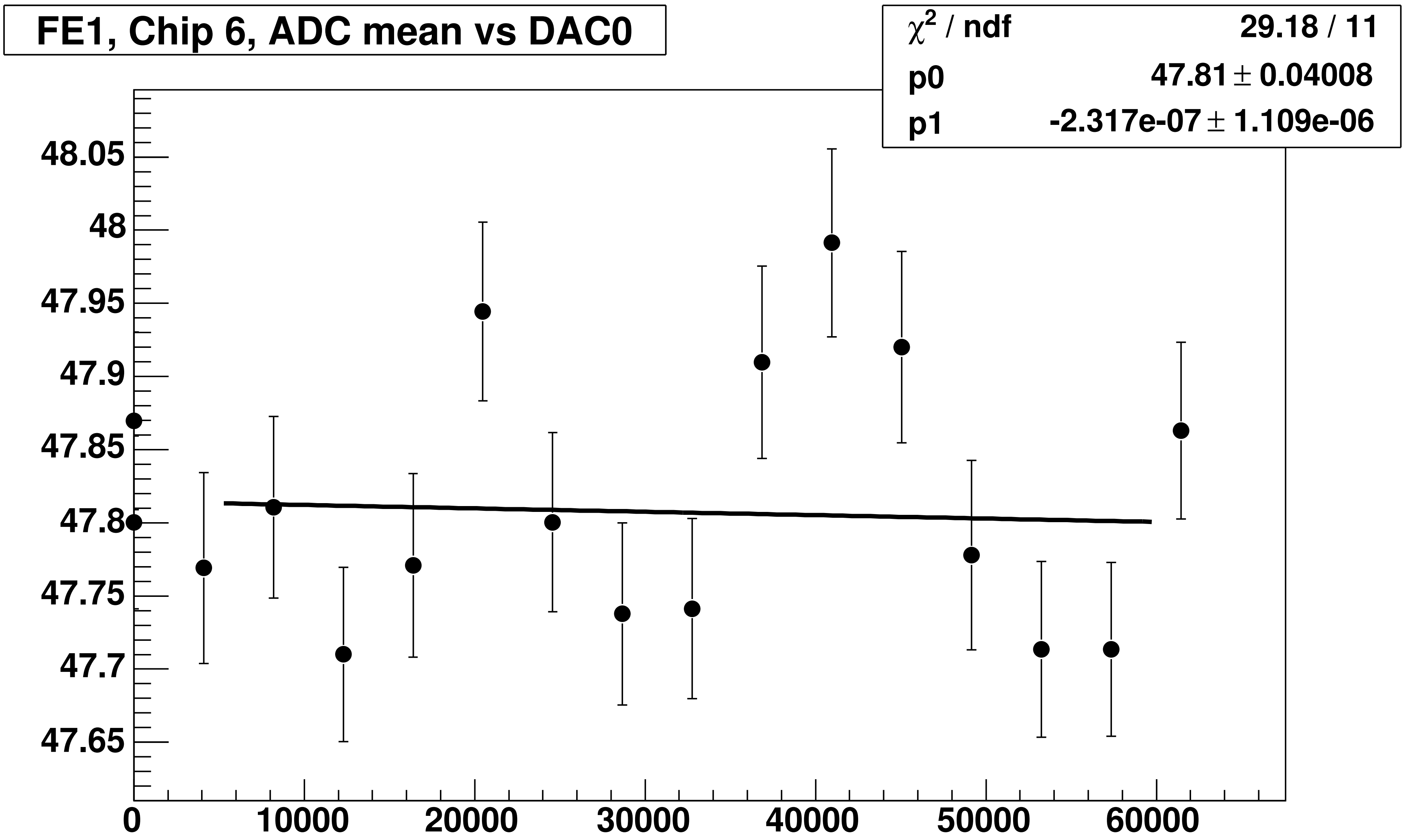

FE1, Chip 5, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000


FE1, Chip 5, ADC mean vs DAC1
χ^2 / ndf 25.49 / 11
p0 70.32 ± 0.03858
p1 -2.704e-06 ± 1.077e-06
70.4
70.3
70.2
70.1
70
69.9
69.8
0
10000
20000
30000
40000
50000
60000

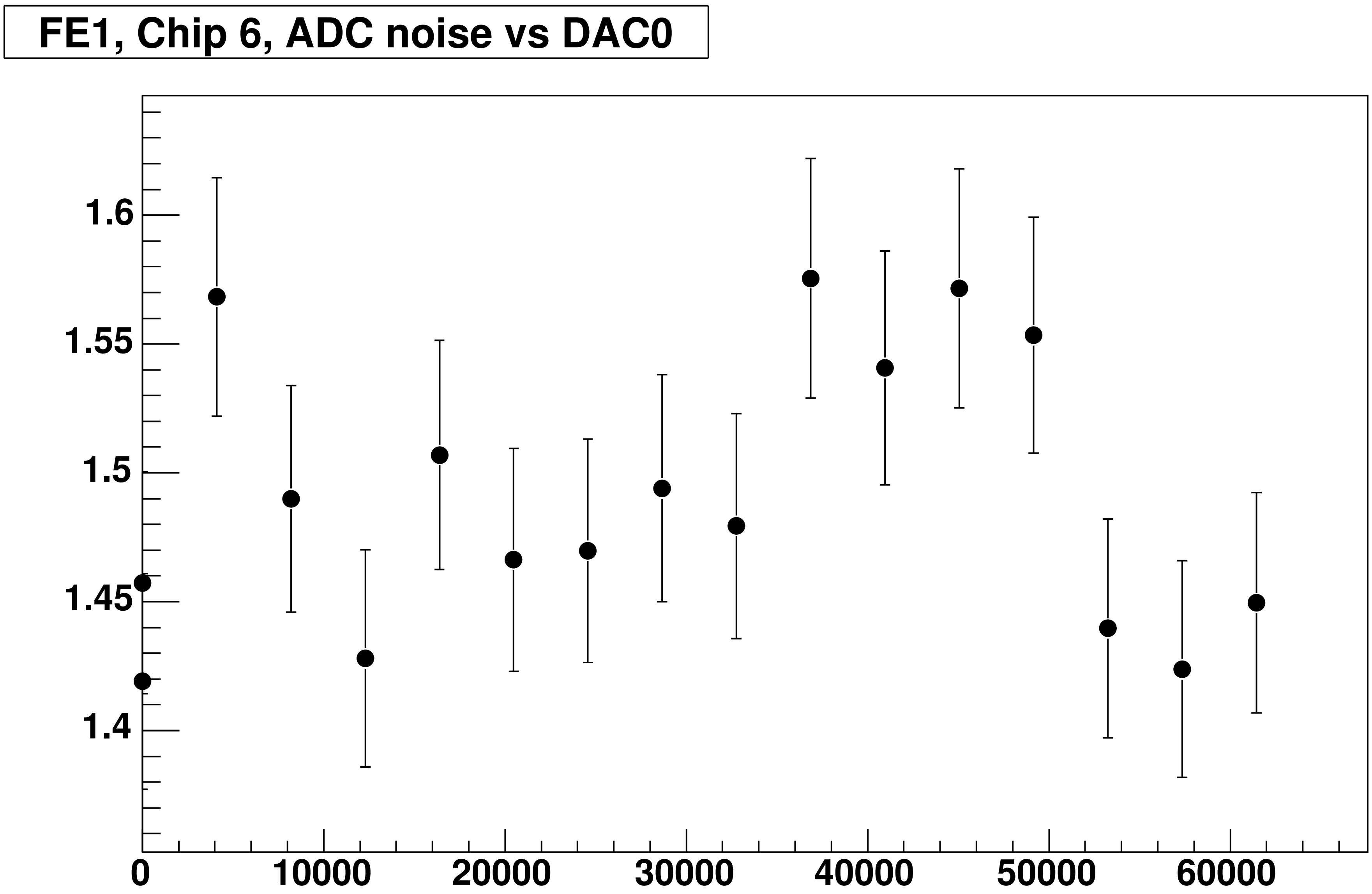


FE1, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

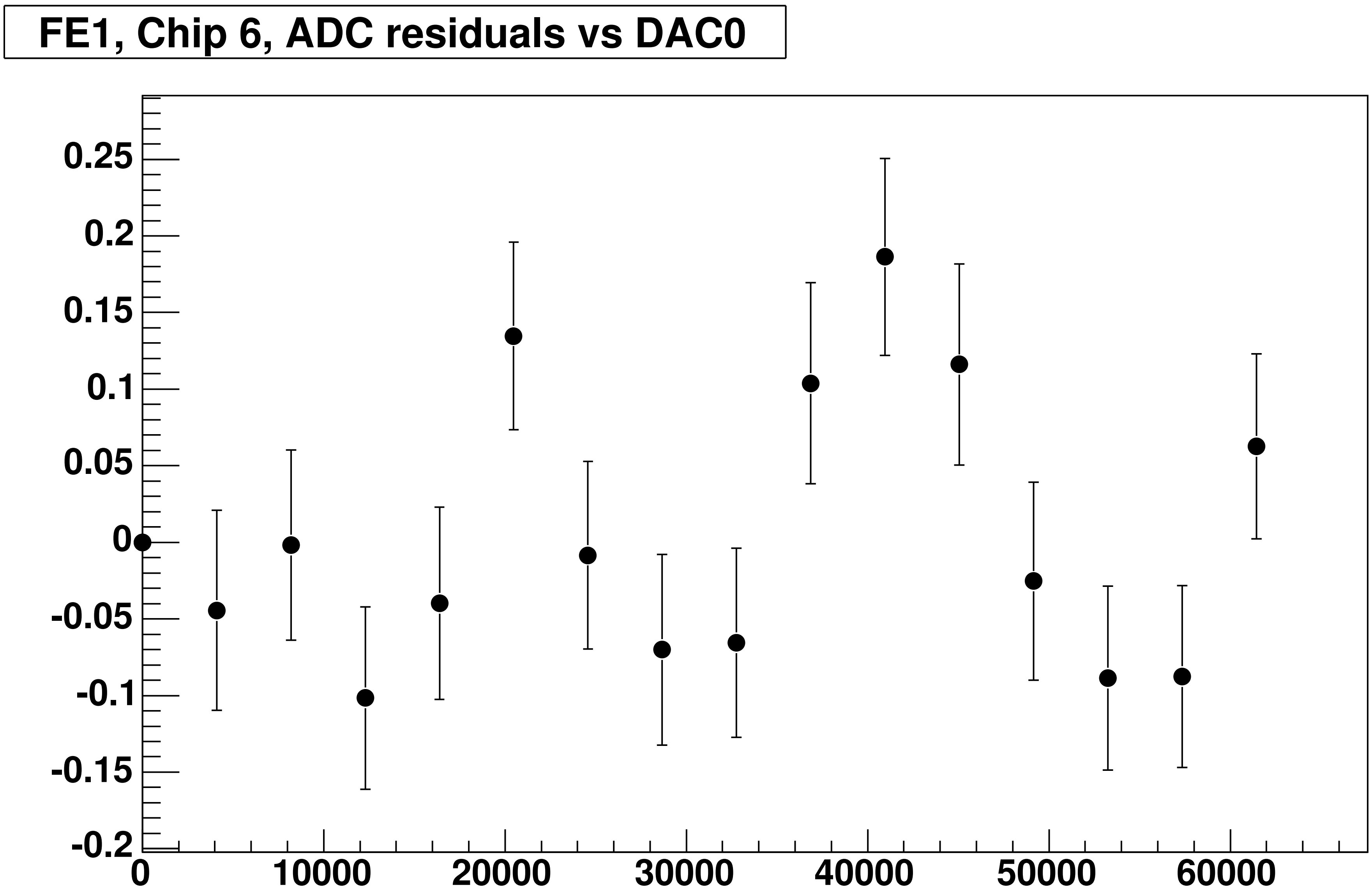

FE1, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

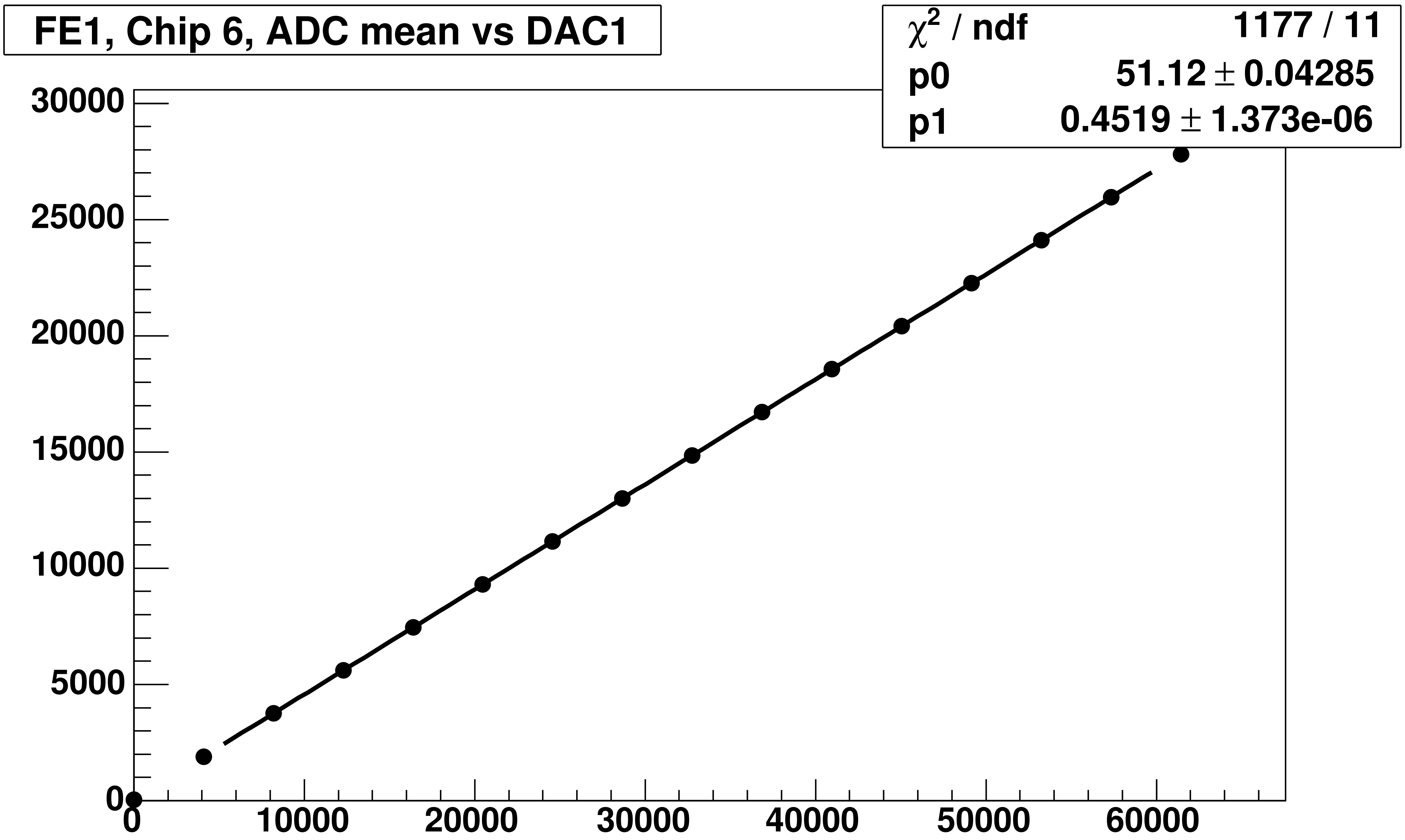


FE1, Chip 6, ADC mean vs DAC0
χ2 / ndf 29.18 / 11
p0 47.81 ± 0.04008
p1 -2.317e-07 ± 1.109e-06
48.05
48
47.95
47.9
47.85
47.8
47.75
47.7
47.65
0
10000
20000
30000
40000
50000
60000

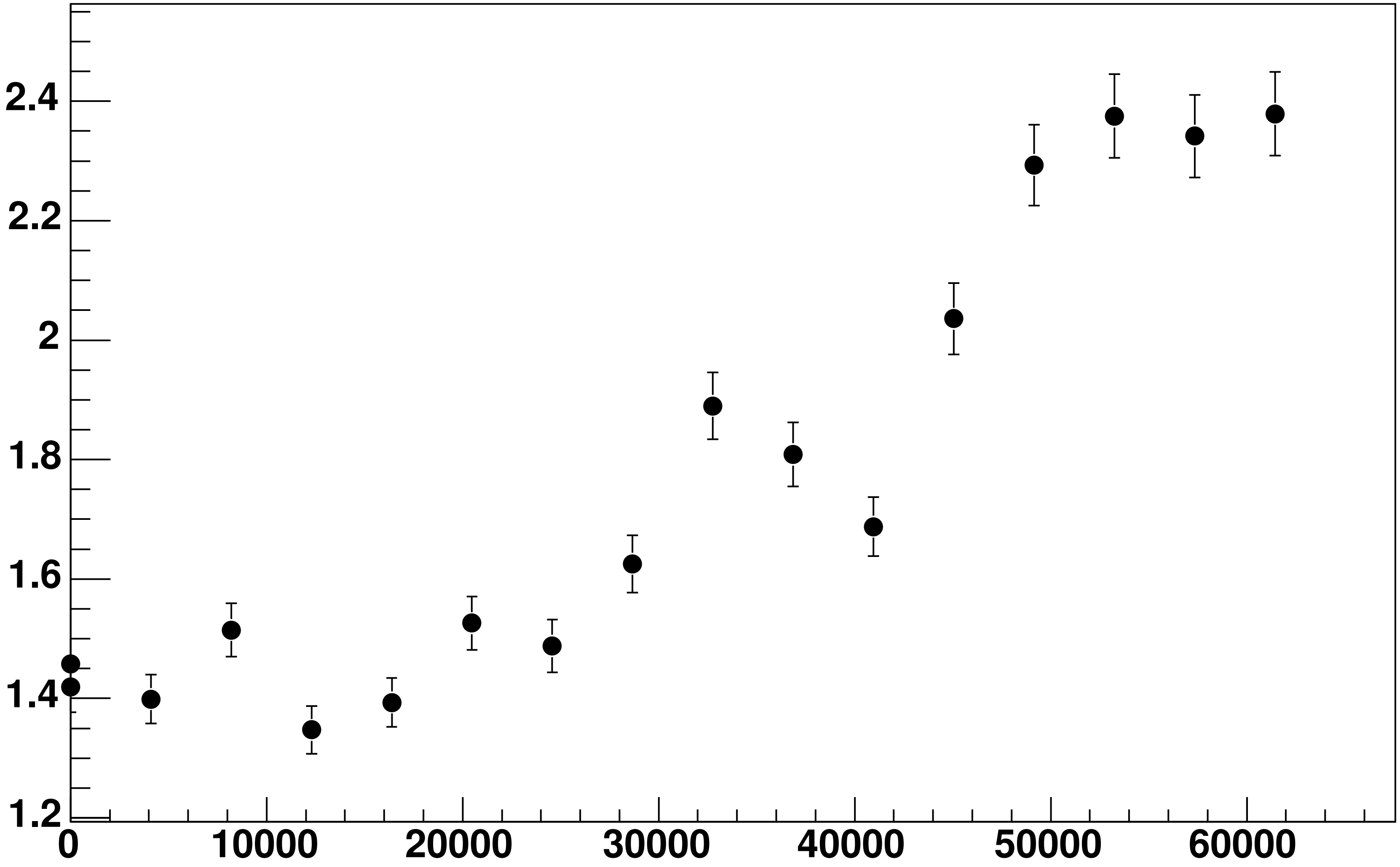


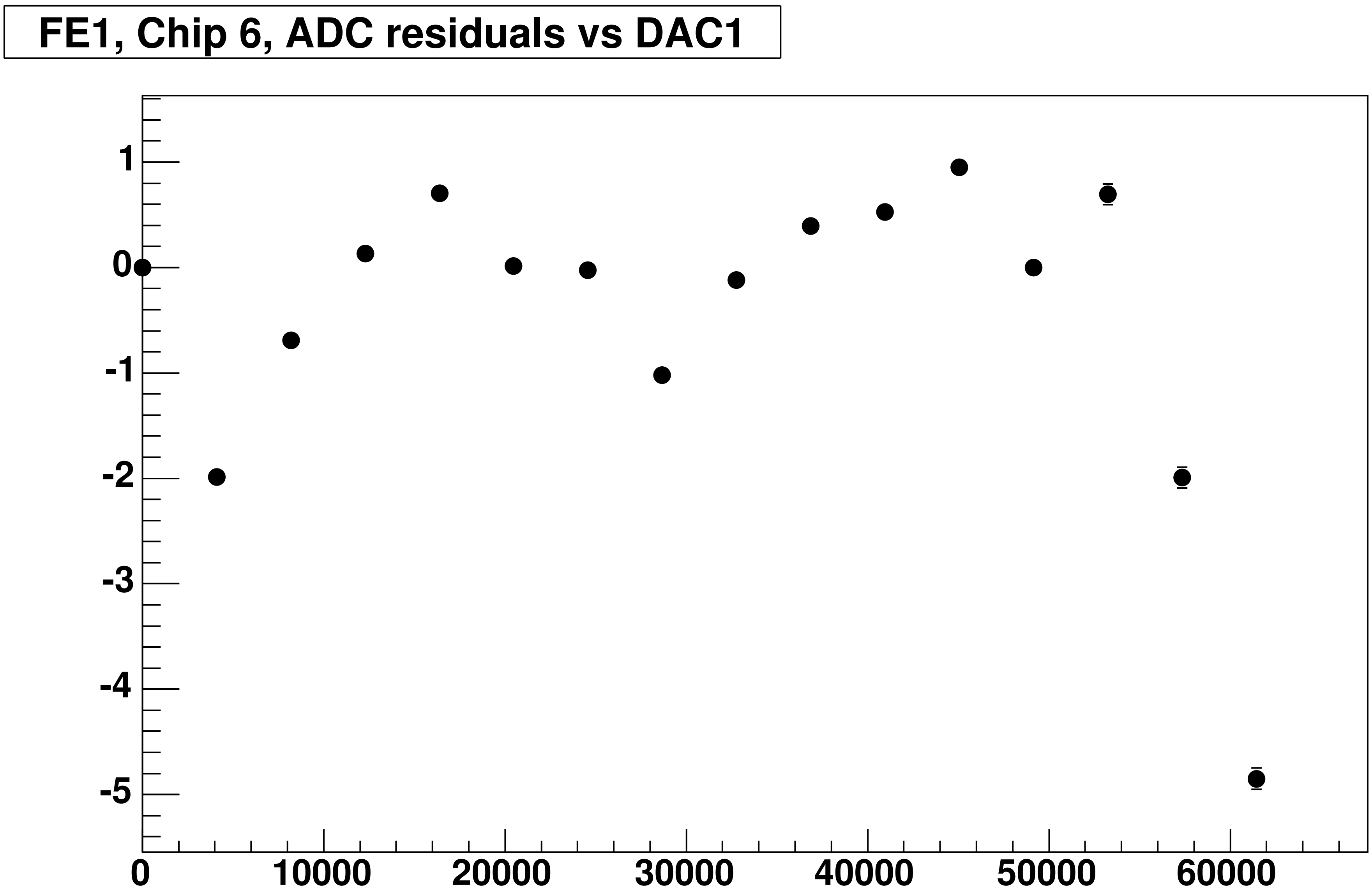
FE1, Chip 6, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

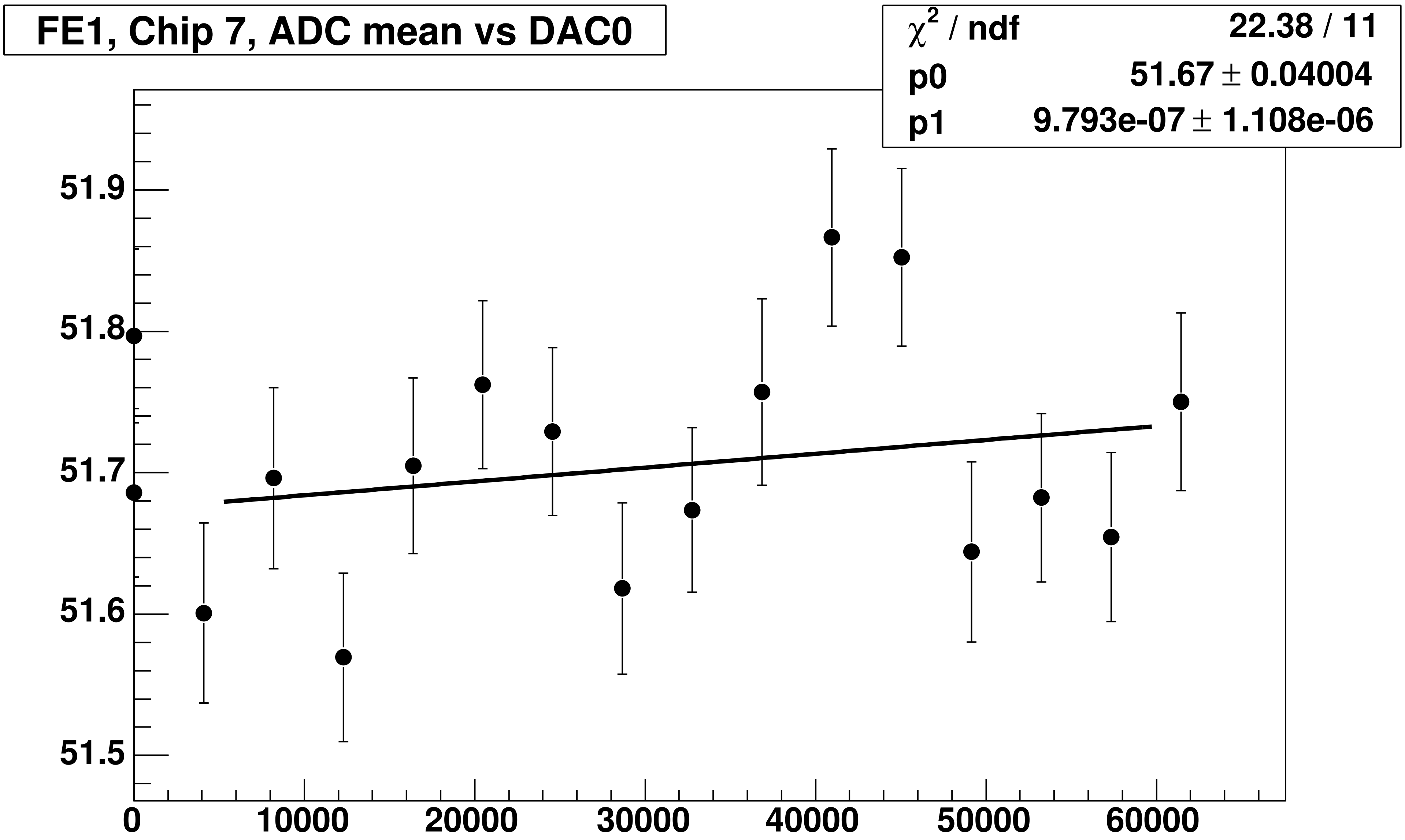

FE1, Chip 6, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

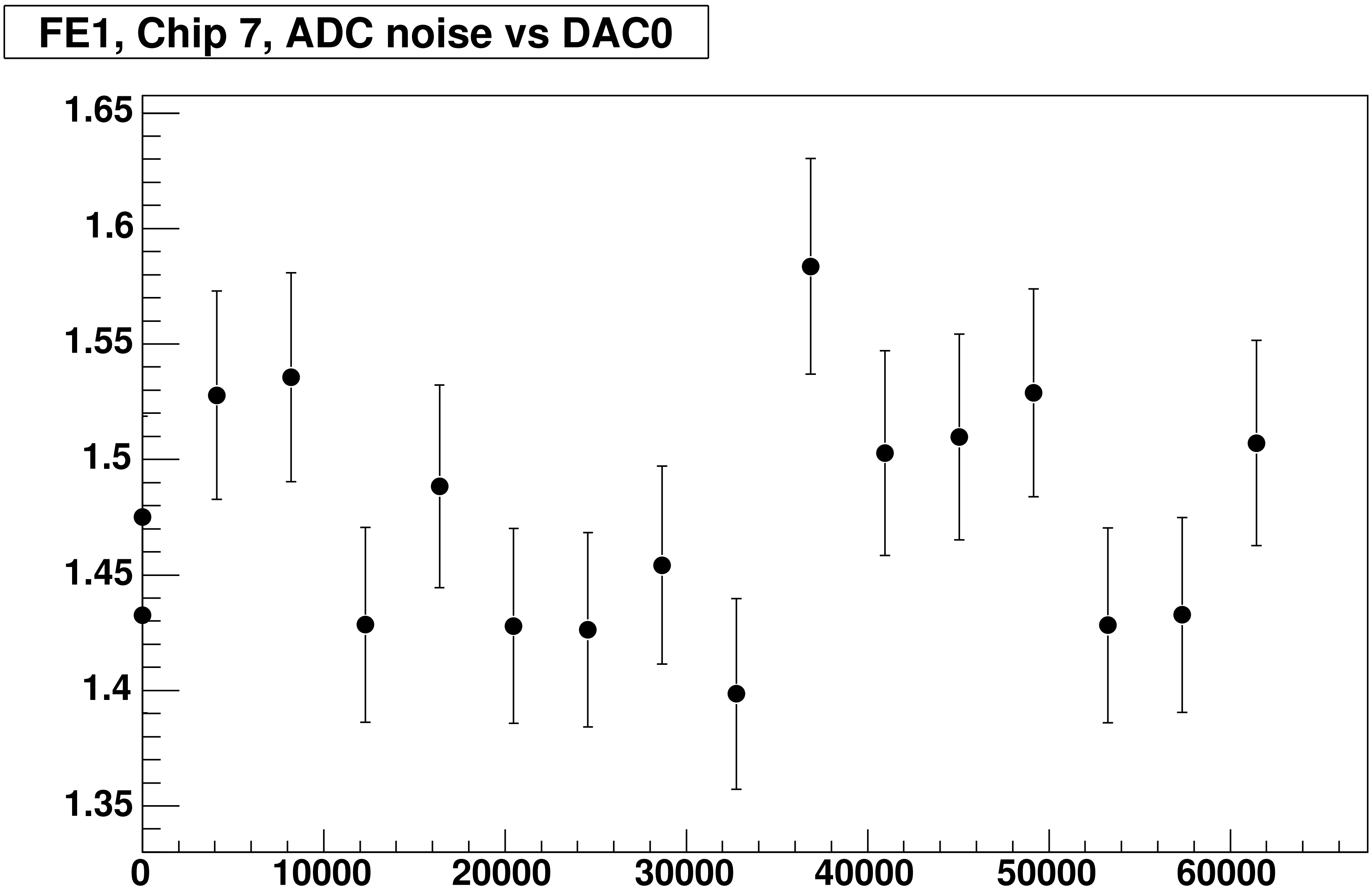

FE1, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1177 / 11
p0 51.12 ± 0.04285
p1 0.4519 ± 1.373e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

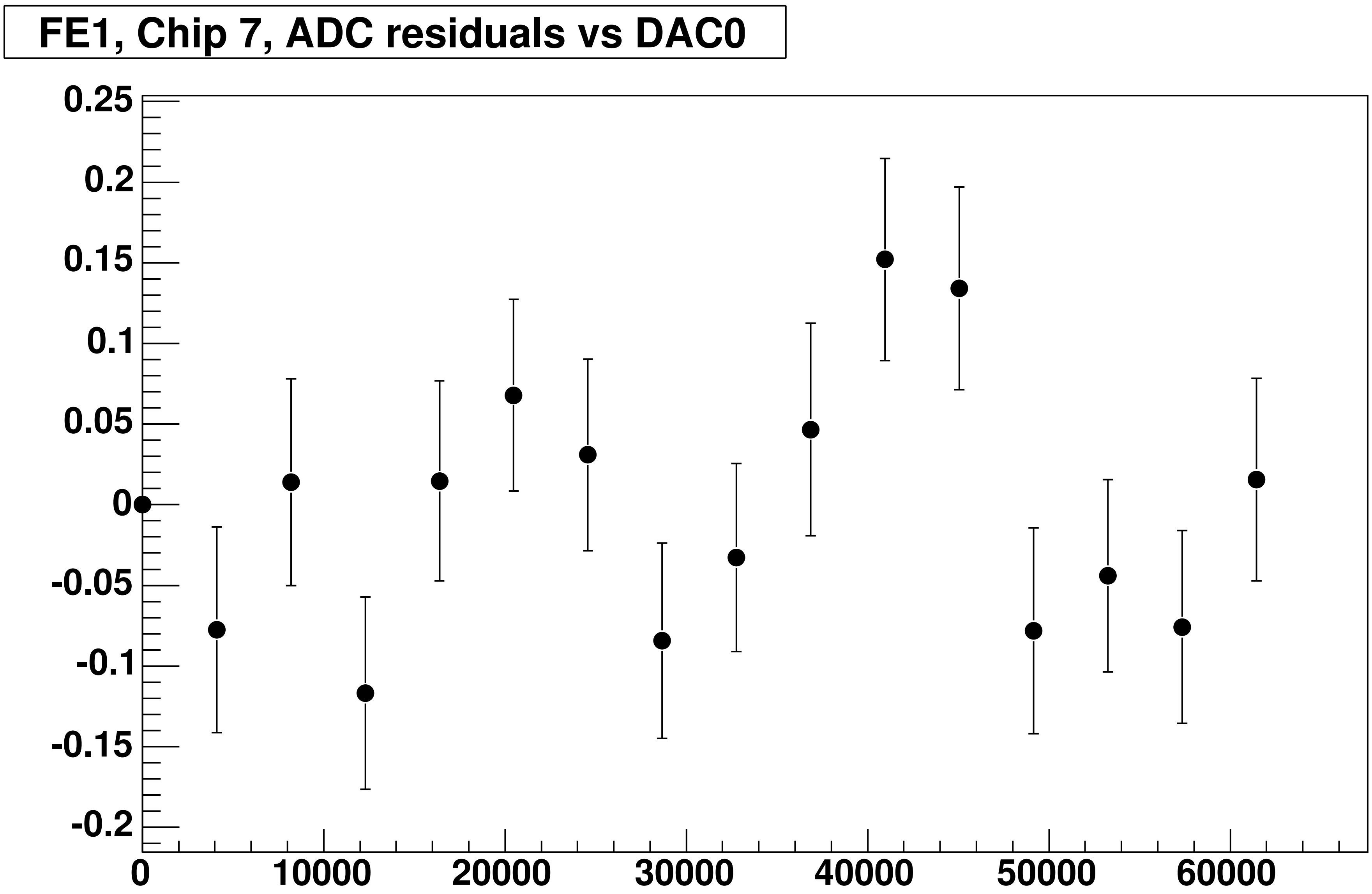
FE1, Chip 6, ADC noise vs DAC1

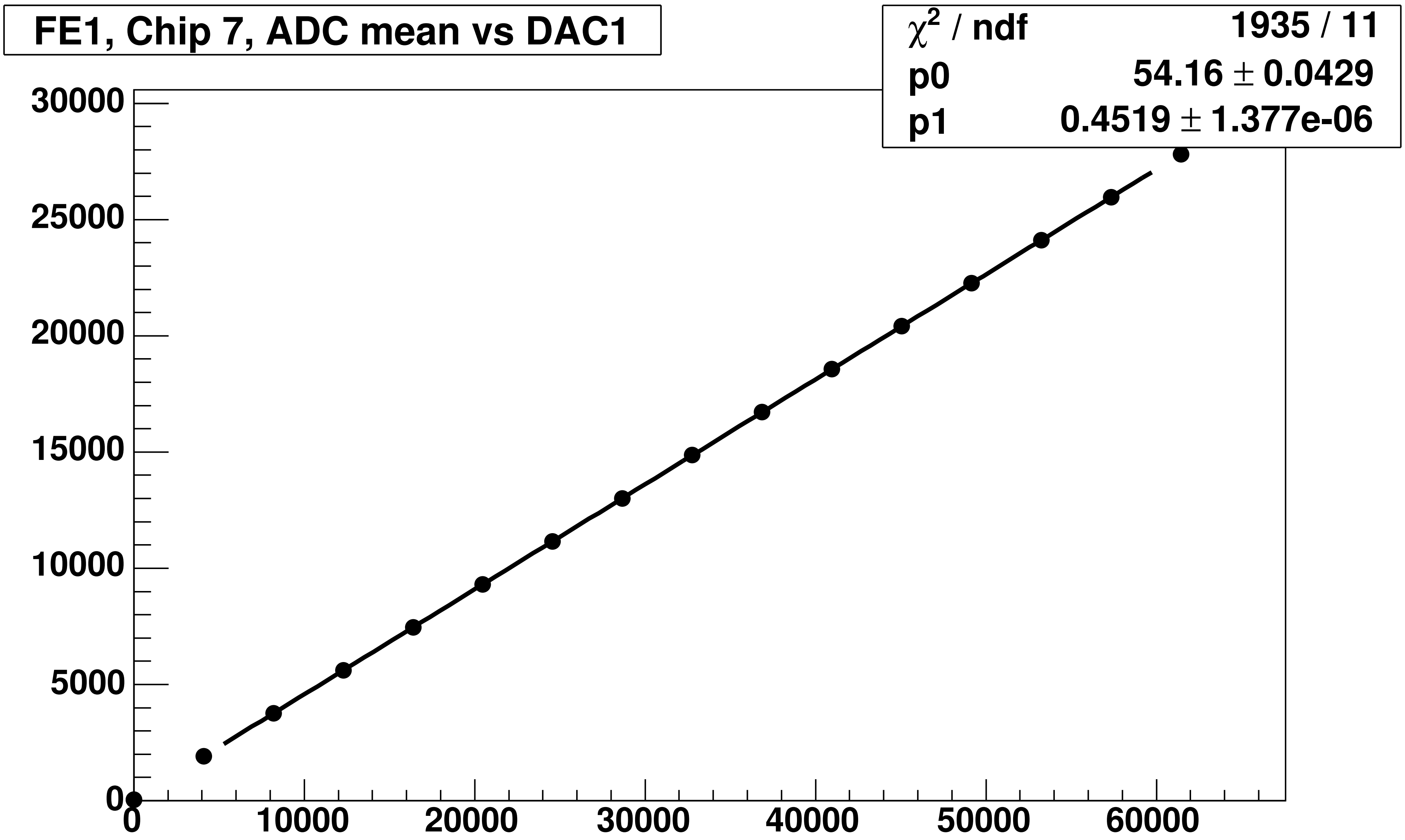



FE1, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

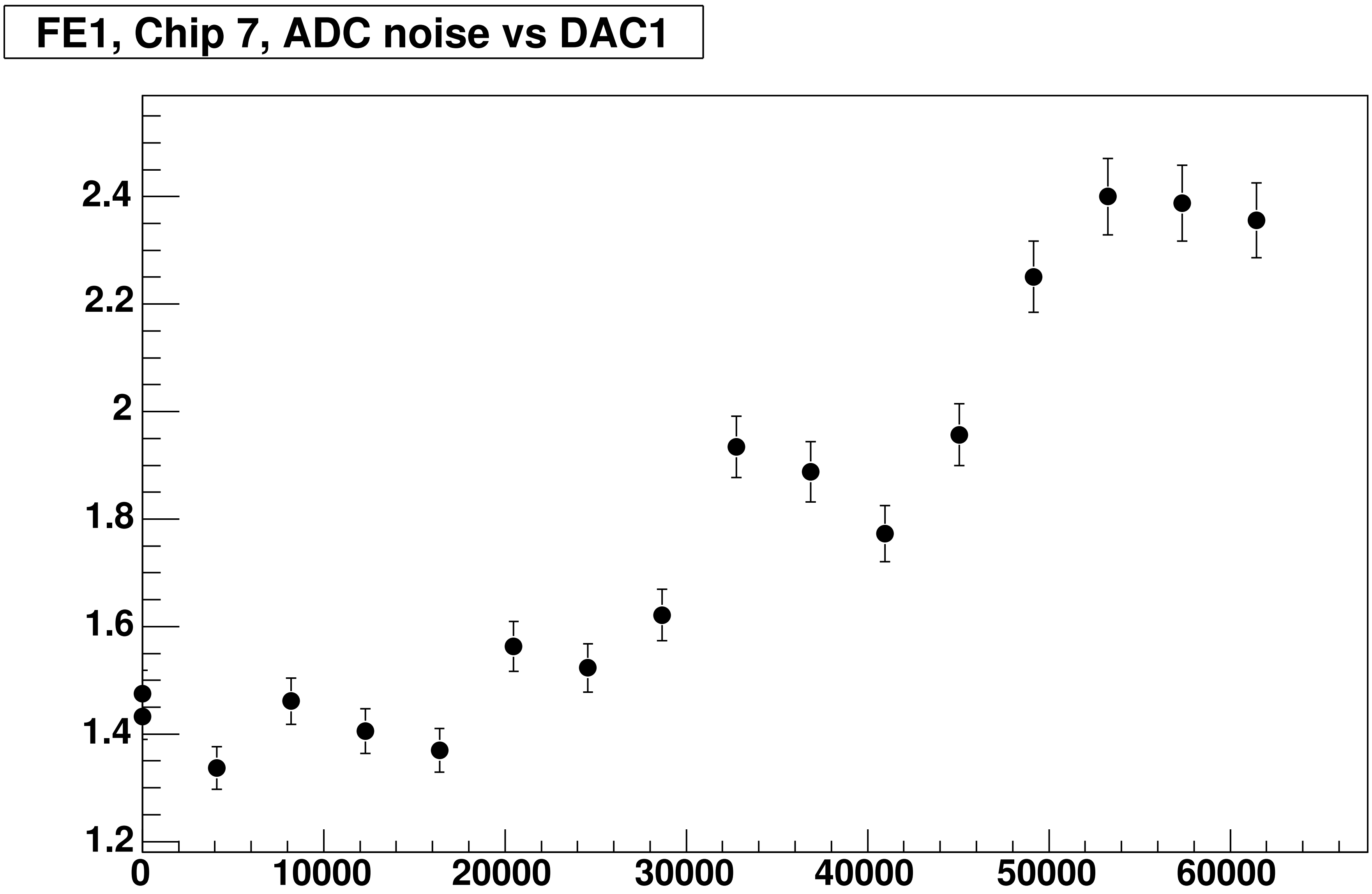

FE1, Chip 7, ADC mean vs DAC0
χ^2 / ndf 22.38 / 11
p0 51.67 ± 0.04004
p1 9.793e-07 ± 1.108e-06
51.9
51.8
51.7
51.6
51.5
0
10000
20000
30000
40000
50000
60000


FE1, Chip 7, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

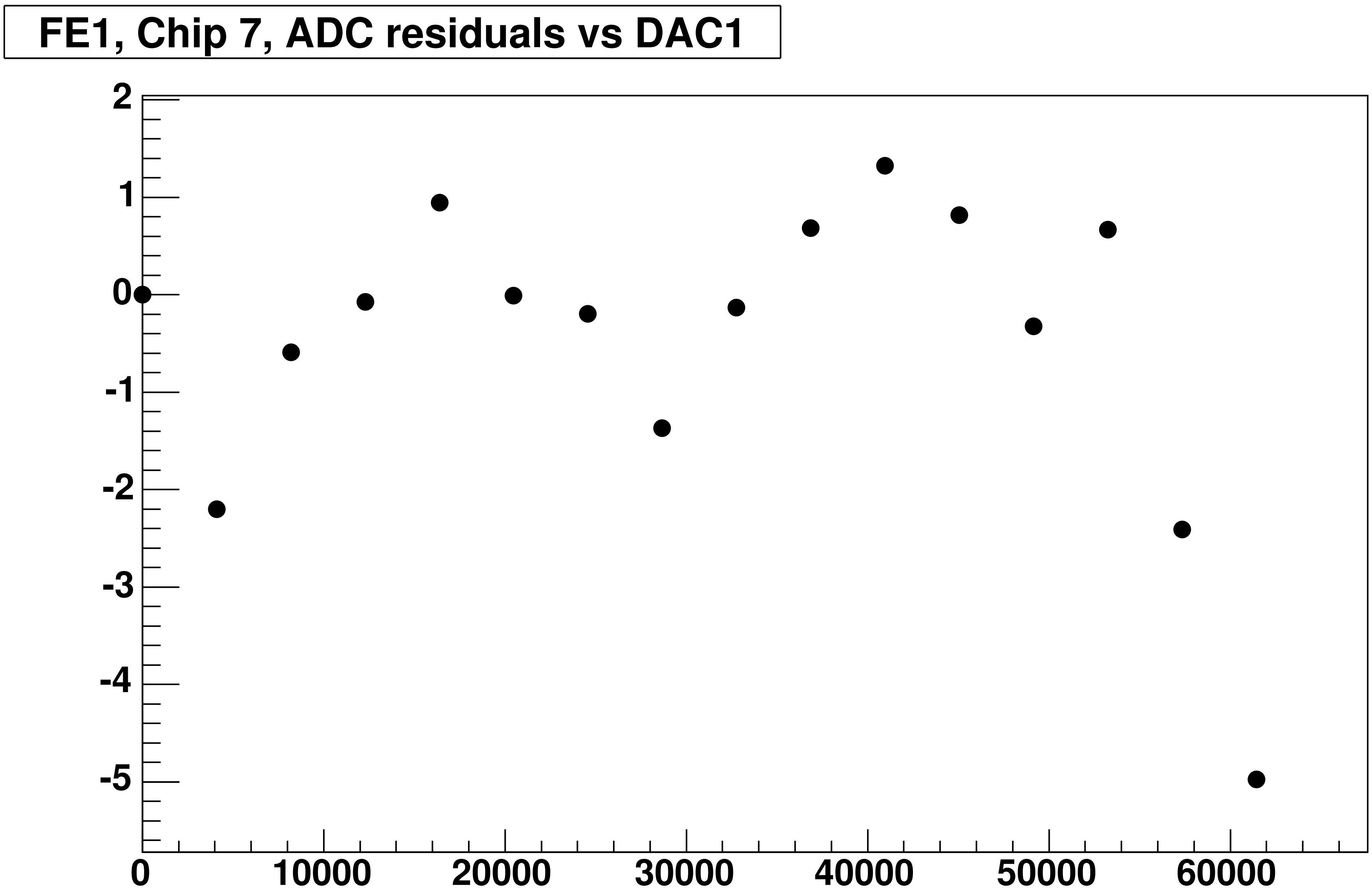

FE1, Chip 7, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

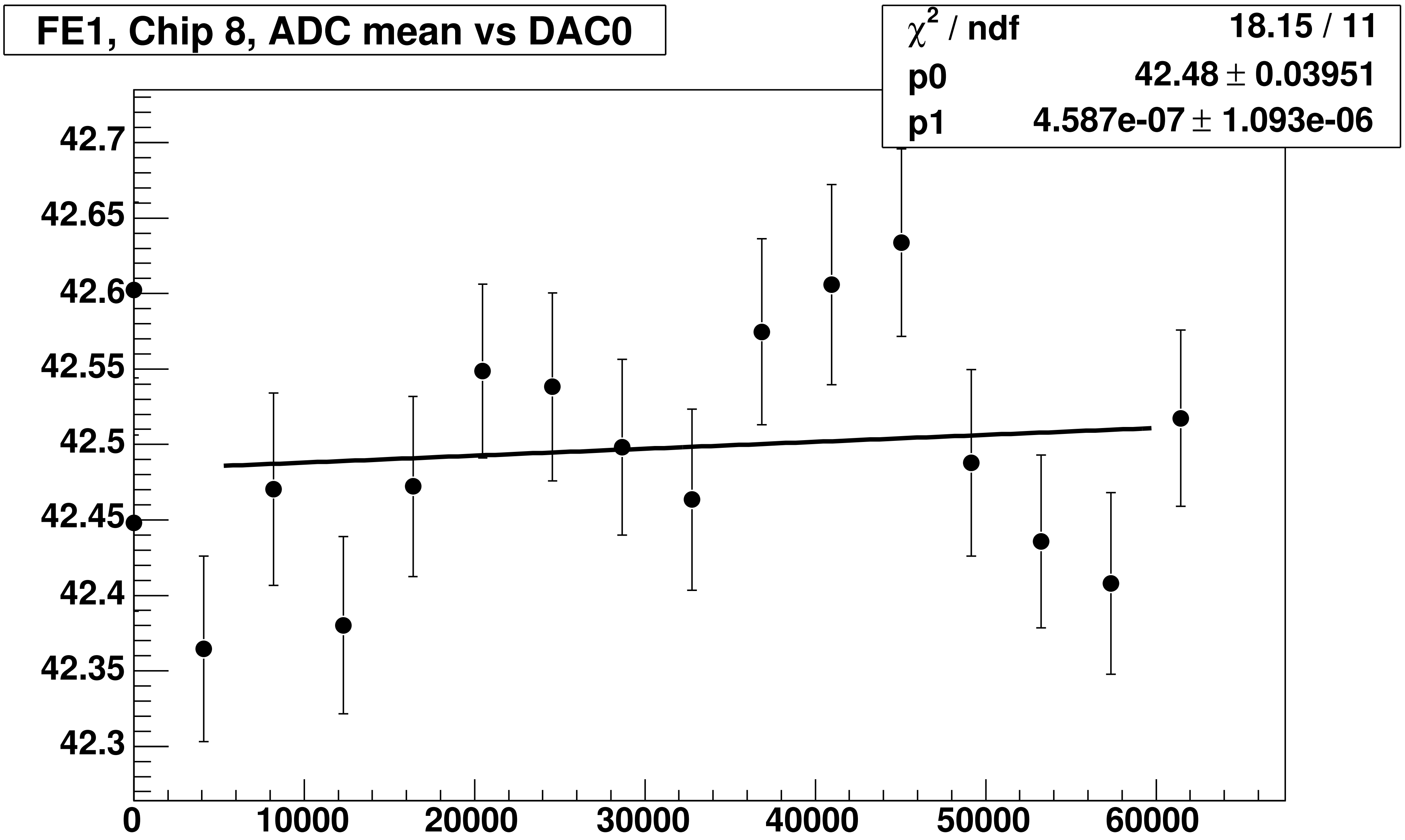


FE1, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1935 / 11
p0 54.16 ± 0.0429
p1 0.4519 ± 1.377e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

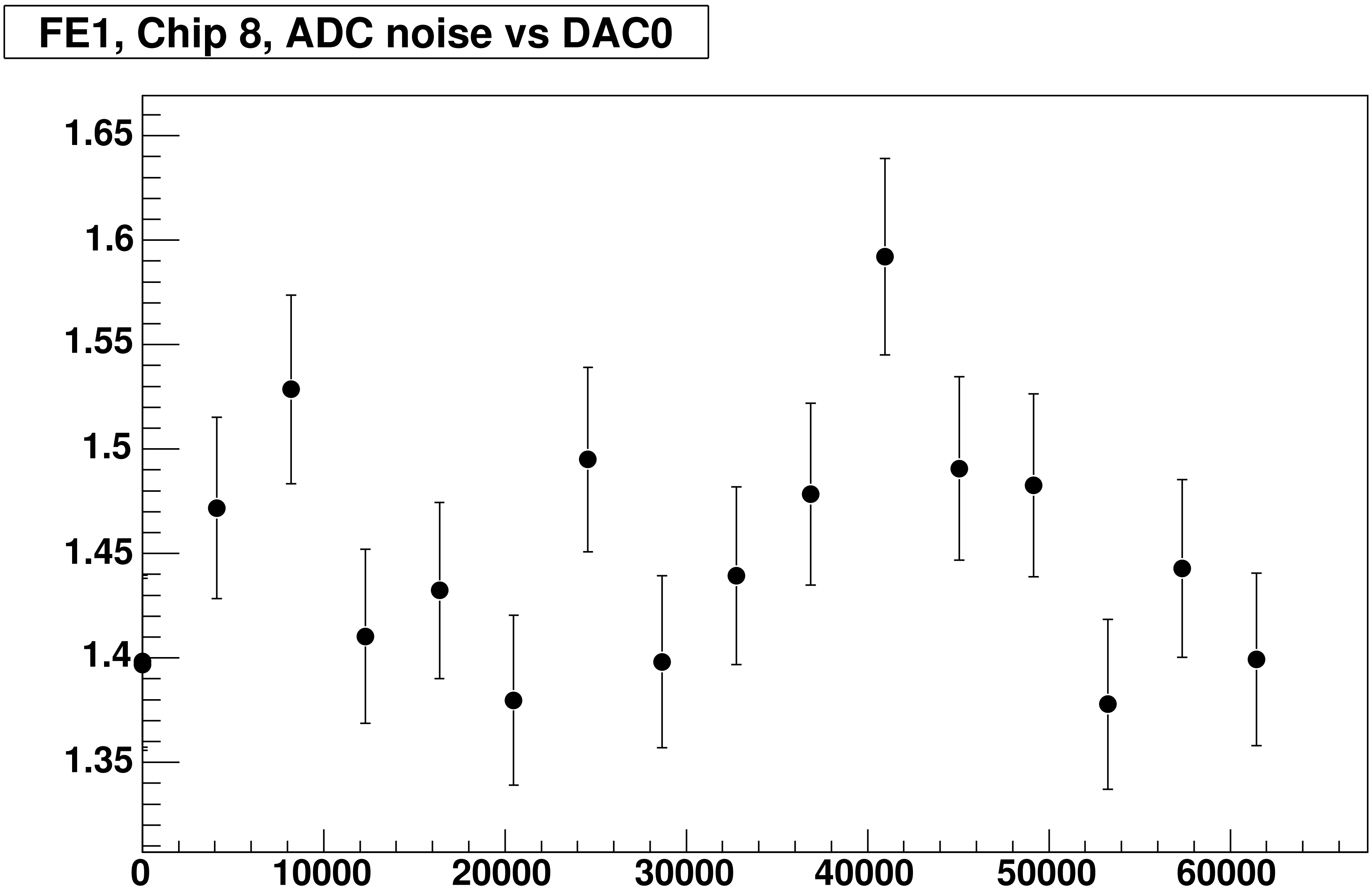


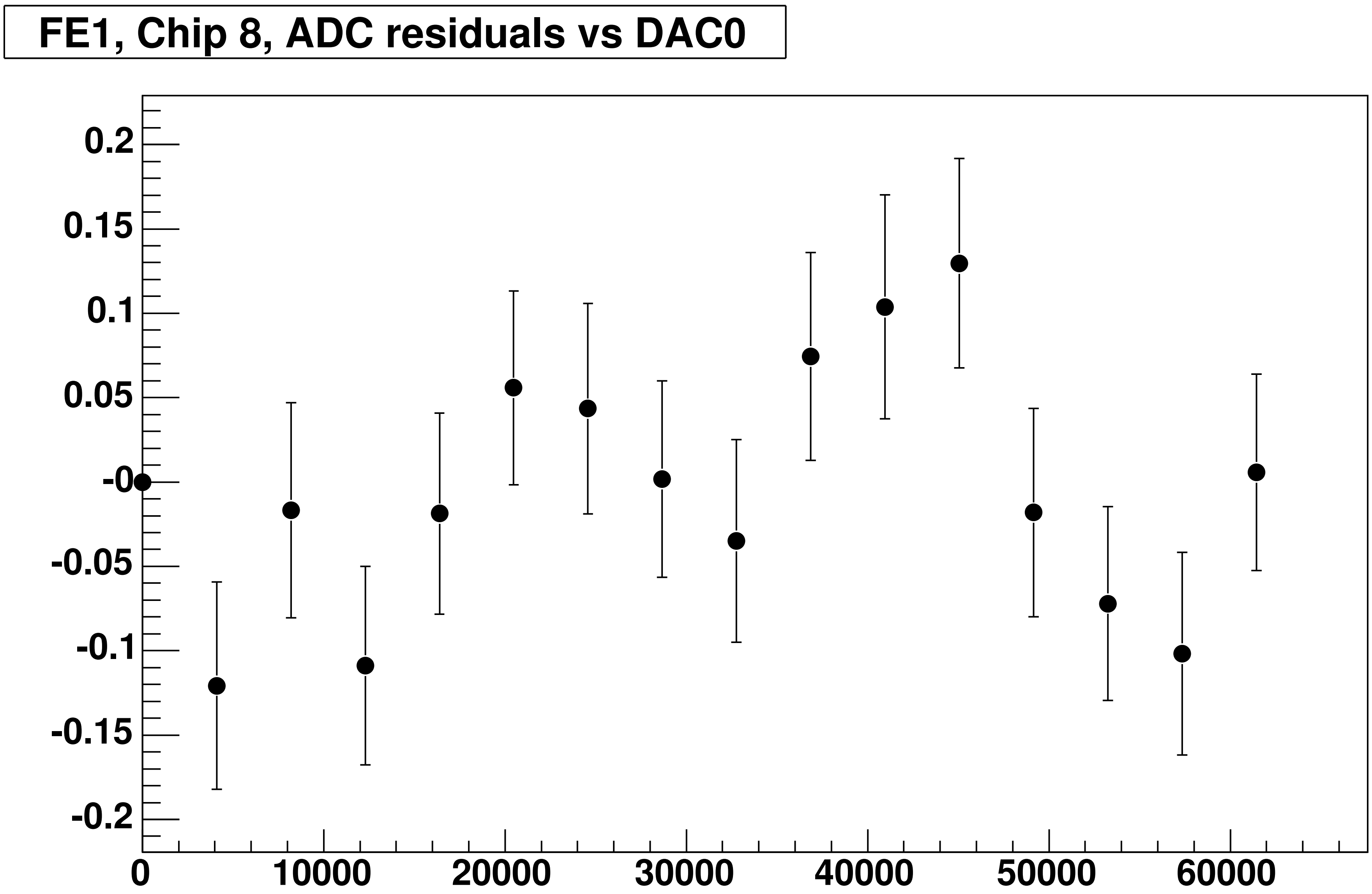
FE1, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

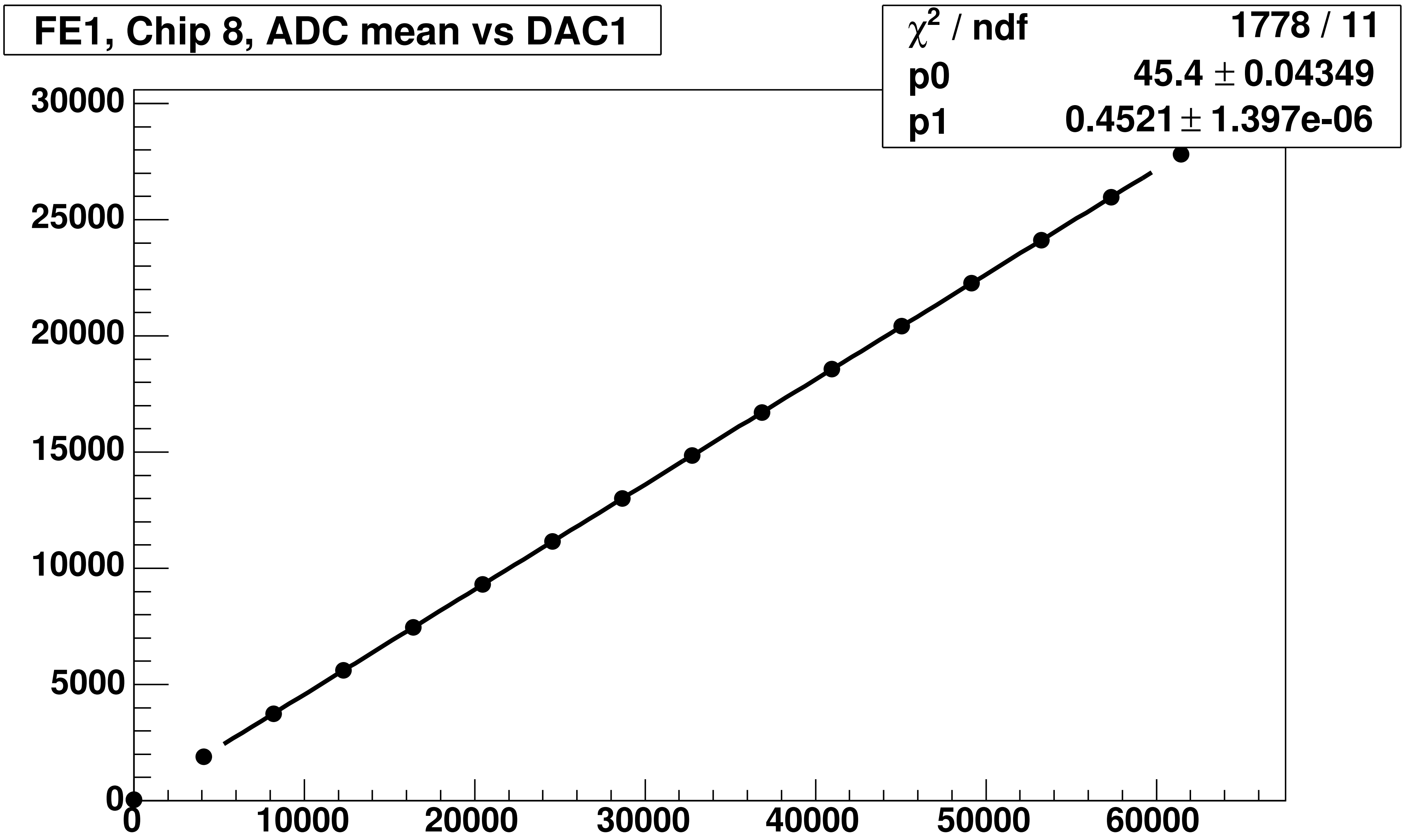

FE1, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

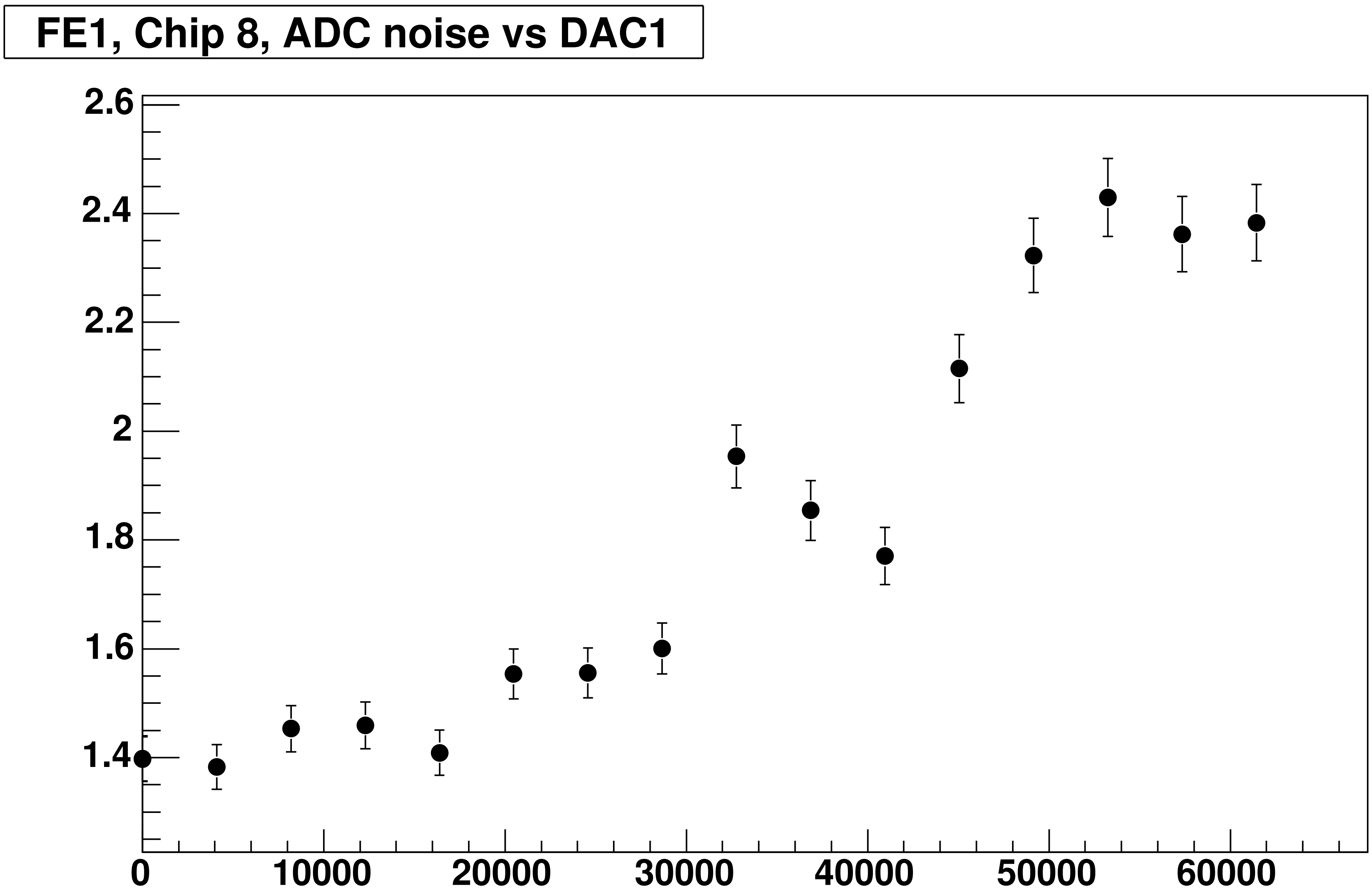


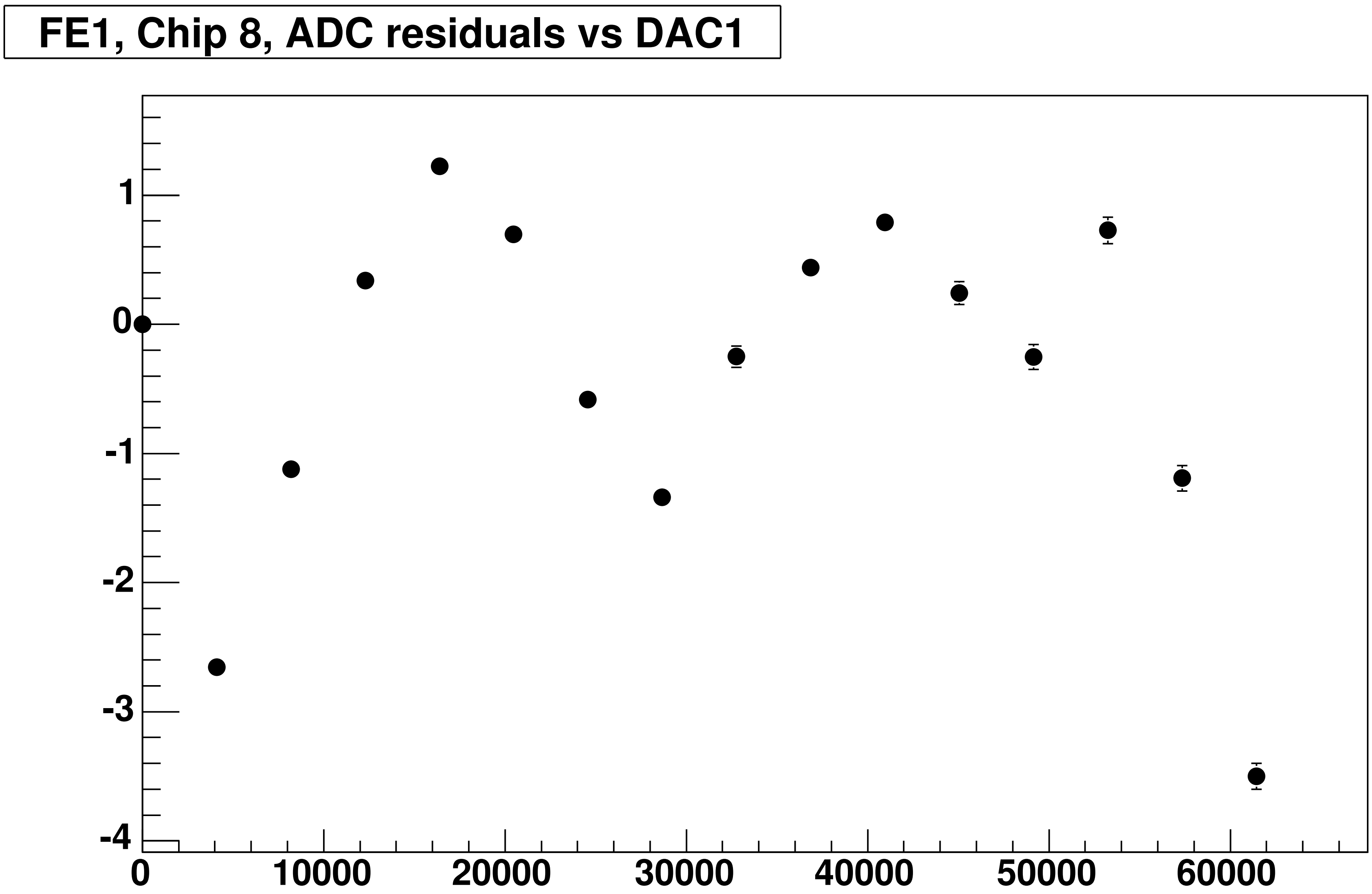
FE1, Chip 8, ADC mean vs DAC0
χ² / ndf 18.15 / 11
p0 42.48 ± 0.03951
p1 4.587e-07 ± 1.093e-06
42.3
42.35
42.4
42.45
42.5
42.55
42.6
42.65
42.7
0
10000
20000
30000
40000
50000
60000

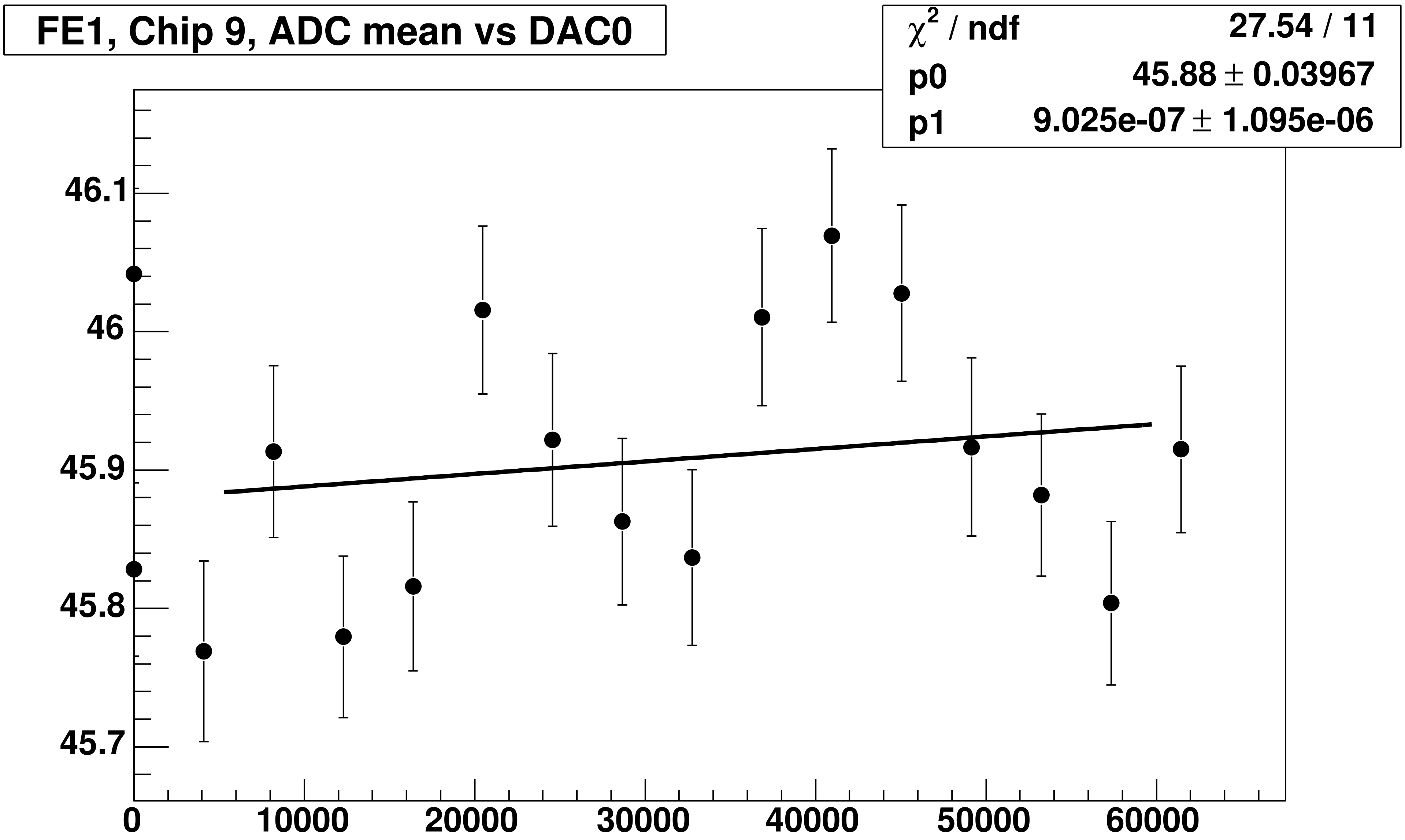

FE1, Chip 8, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

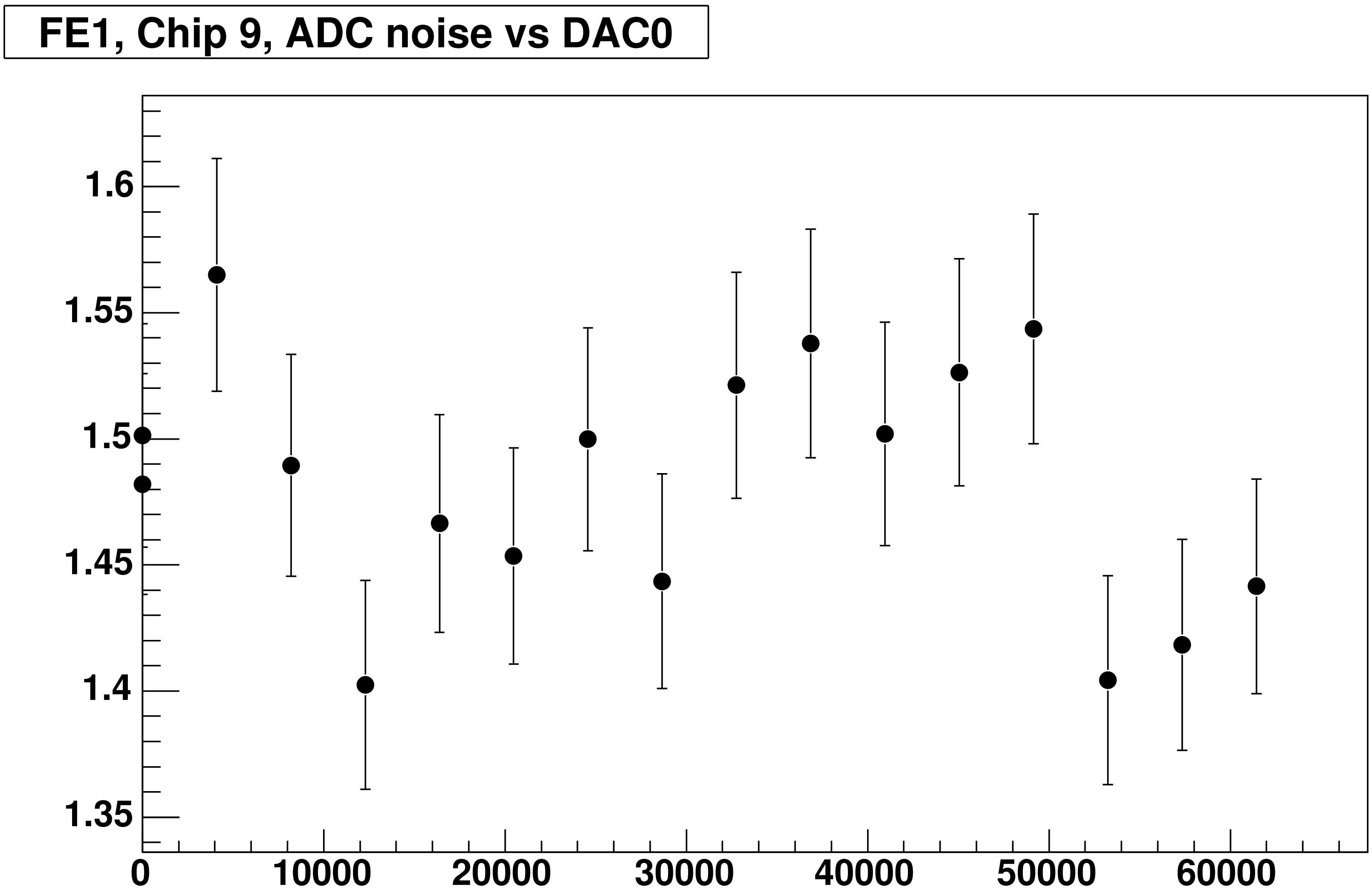

FE1, Chip 8, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

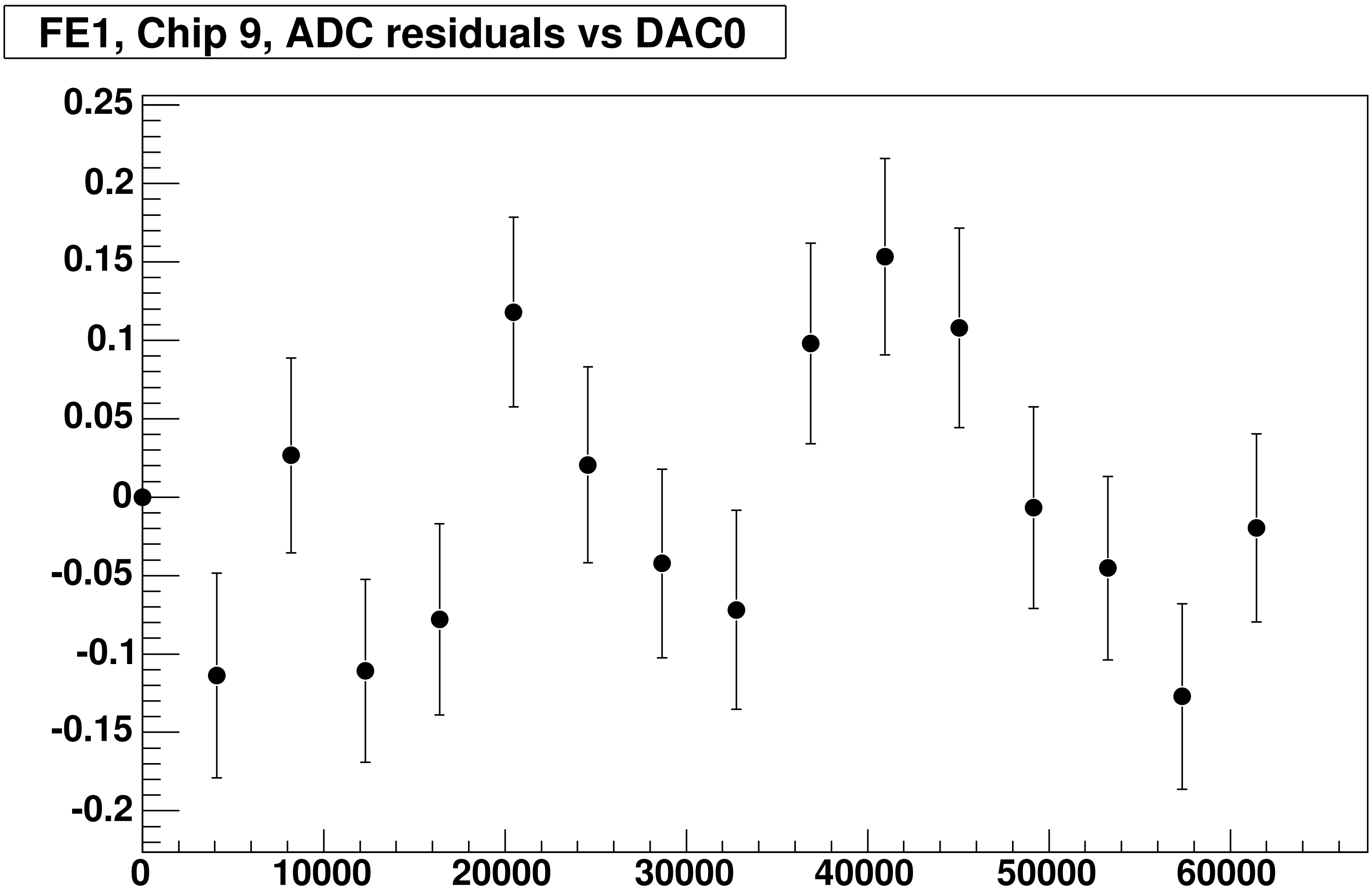

FE1, Chip 8, ADC mean vs DAC1
χ² / ndf 1778 / 11
p0 45.4 ± 0.04349
p1 0.4521 ± 1.397e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

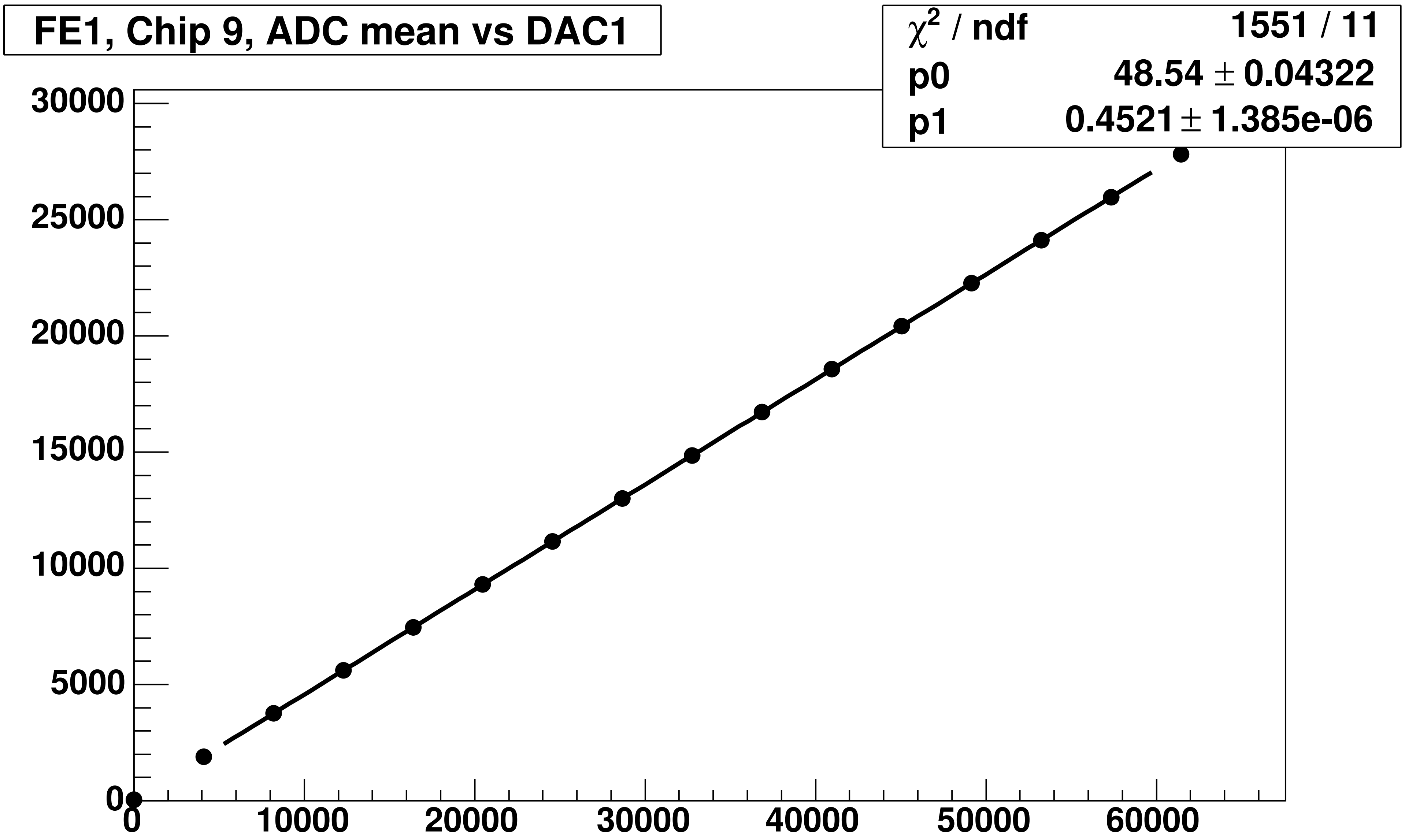

FE1, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

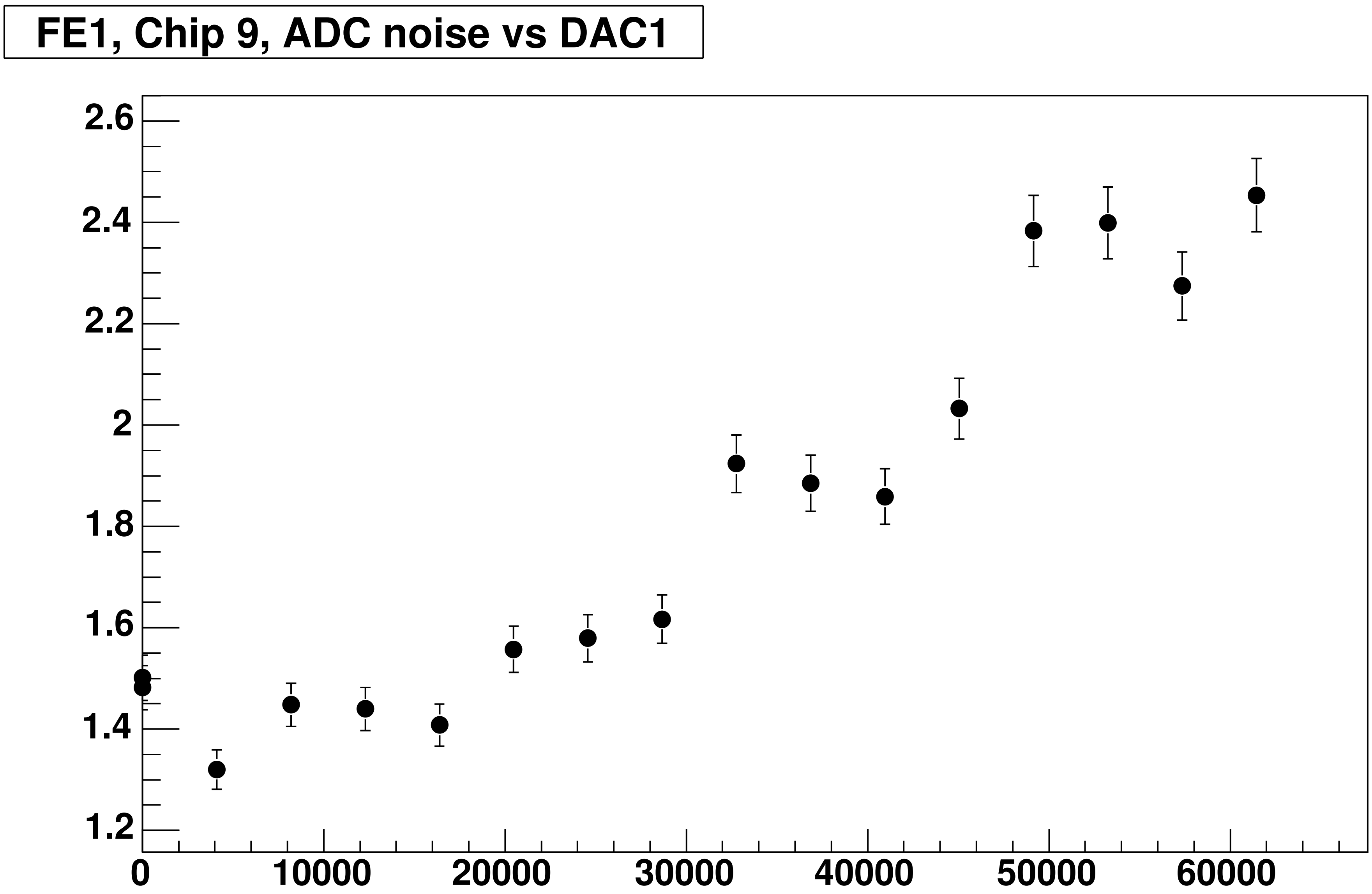

FE1, Chip 9, ADC mean vs DAC0
χ2 / ndf 27.54 / 11
p0 45.88 ± 0.03967
p1 9.025e-07 ± 1.095e-06
46.1
46
45.9
45.8
45.7
0
10000
20000
30000
40000
50000
60000

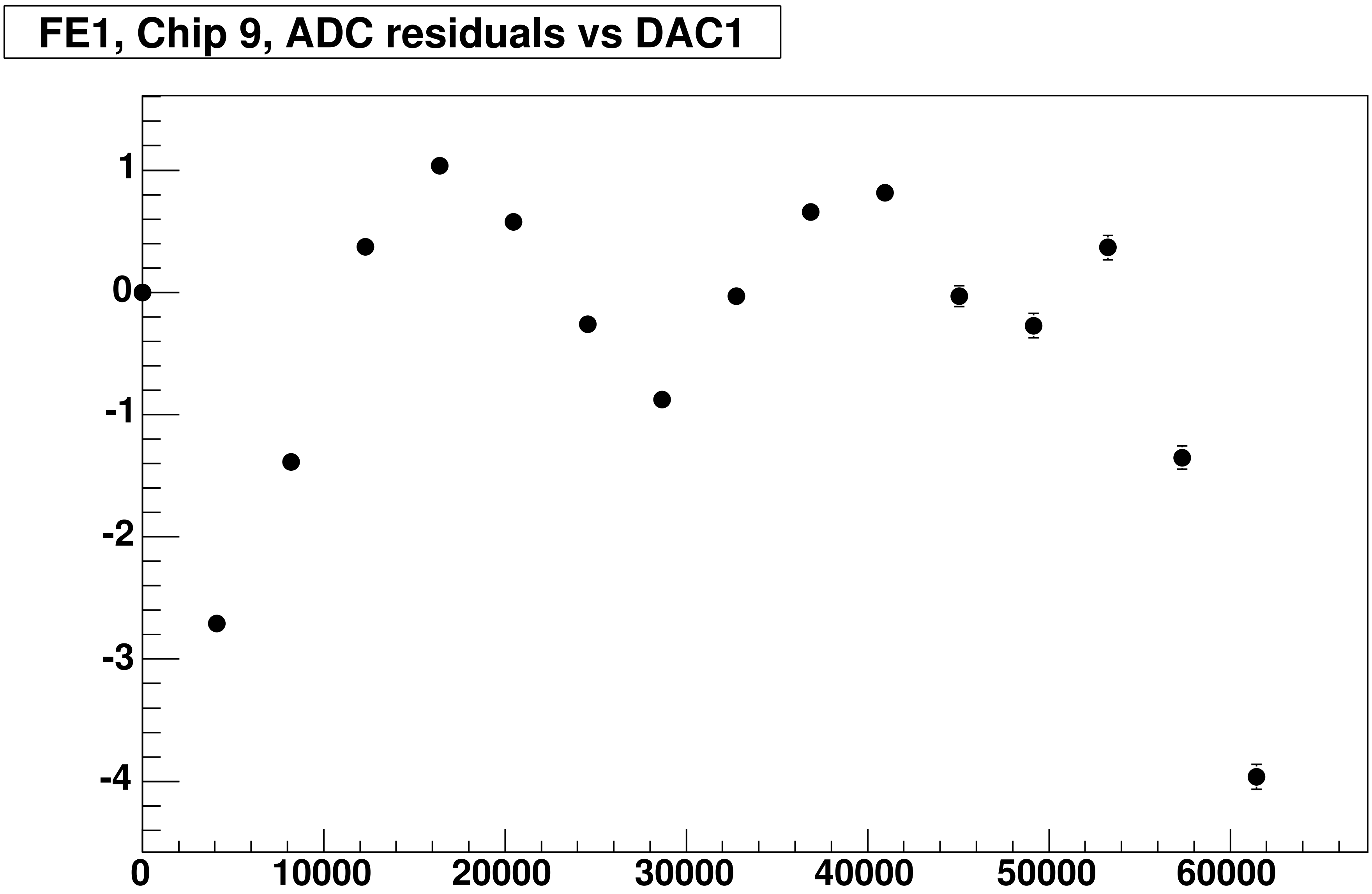

FE1, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

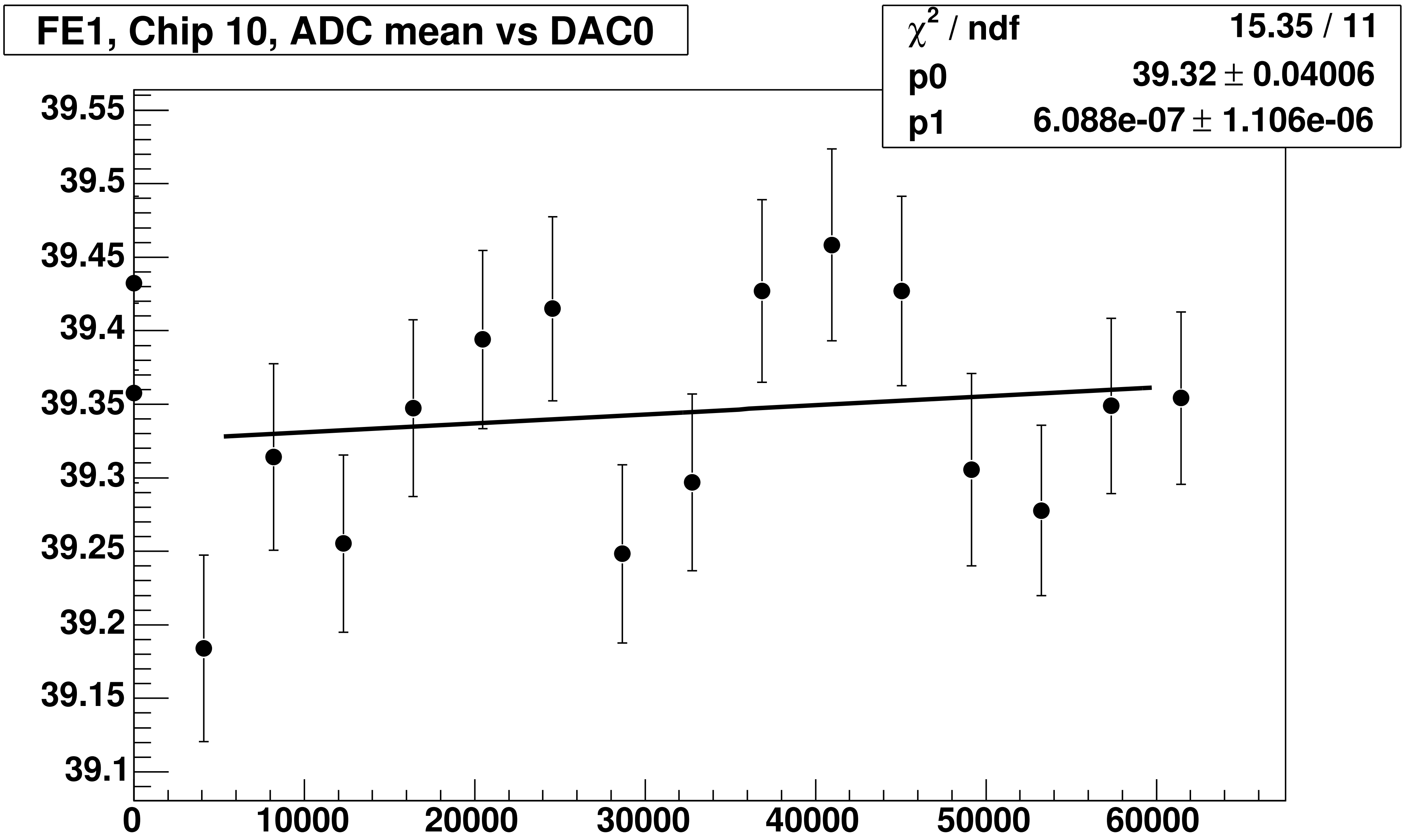

FE1, Chip 9, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



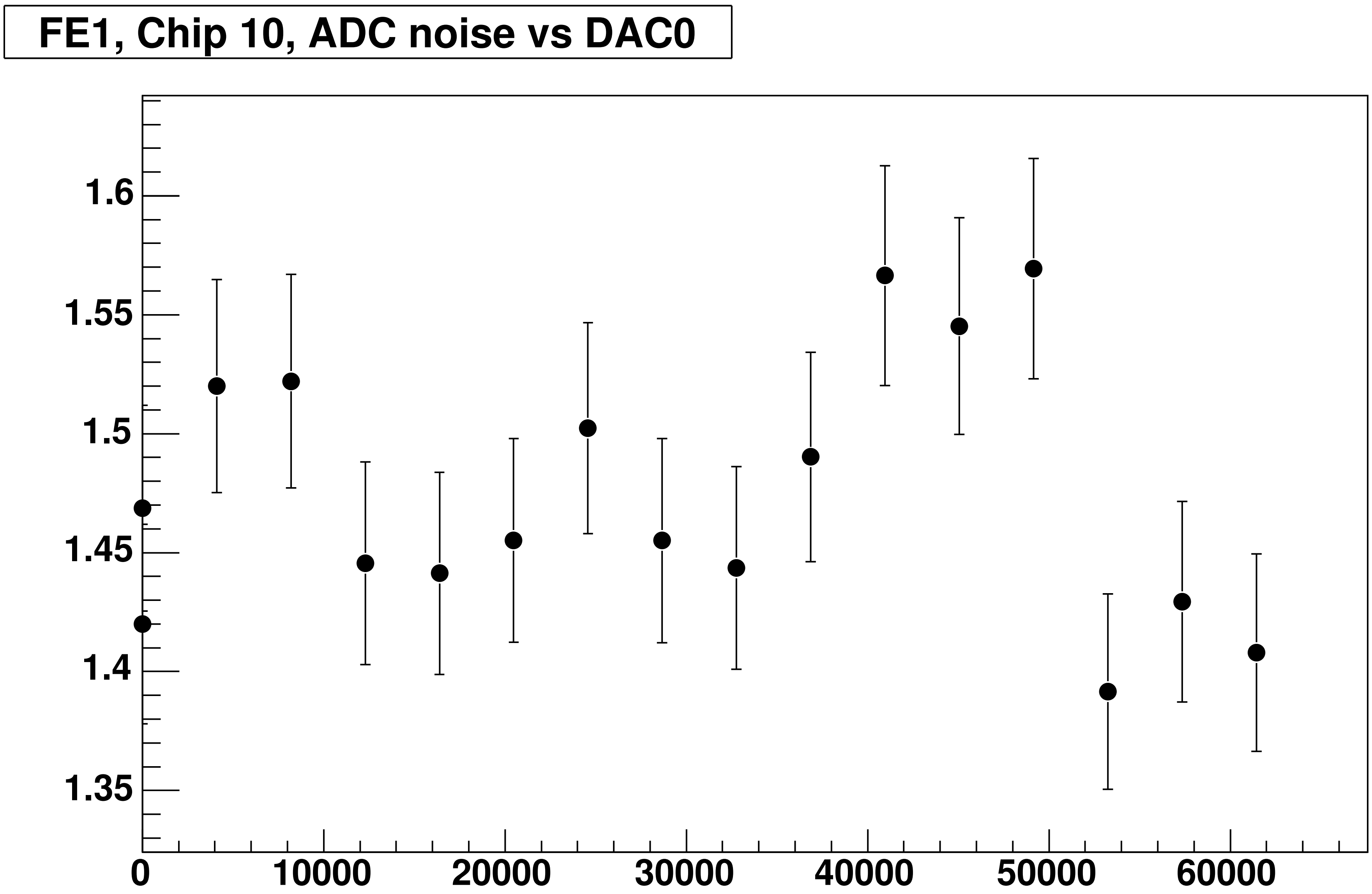
FE1, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1551 / 11
p0 48.54 ± 0.04322
p1 0.4521 ± 1.385e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

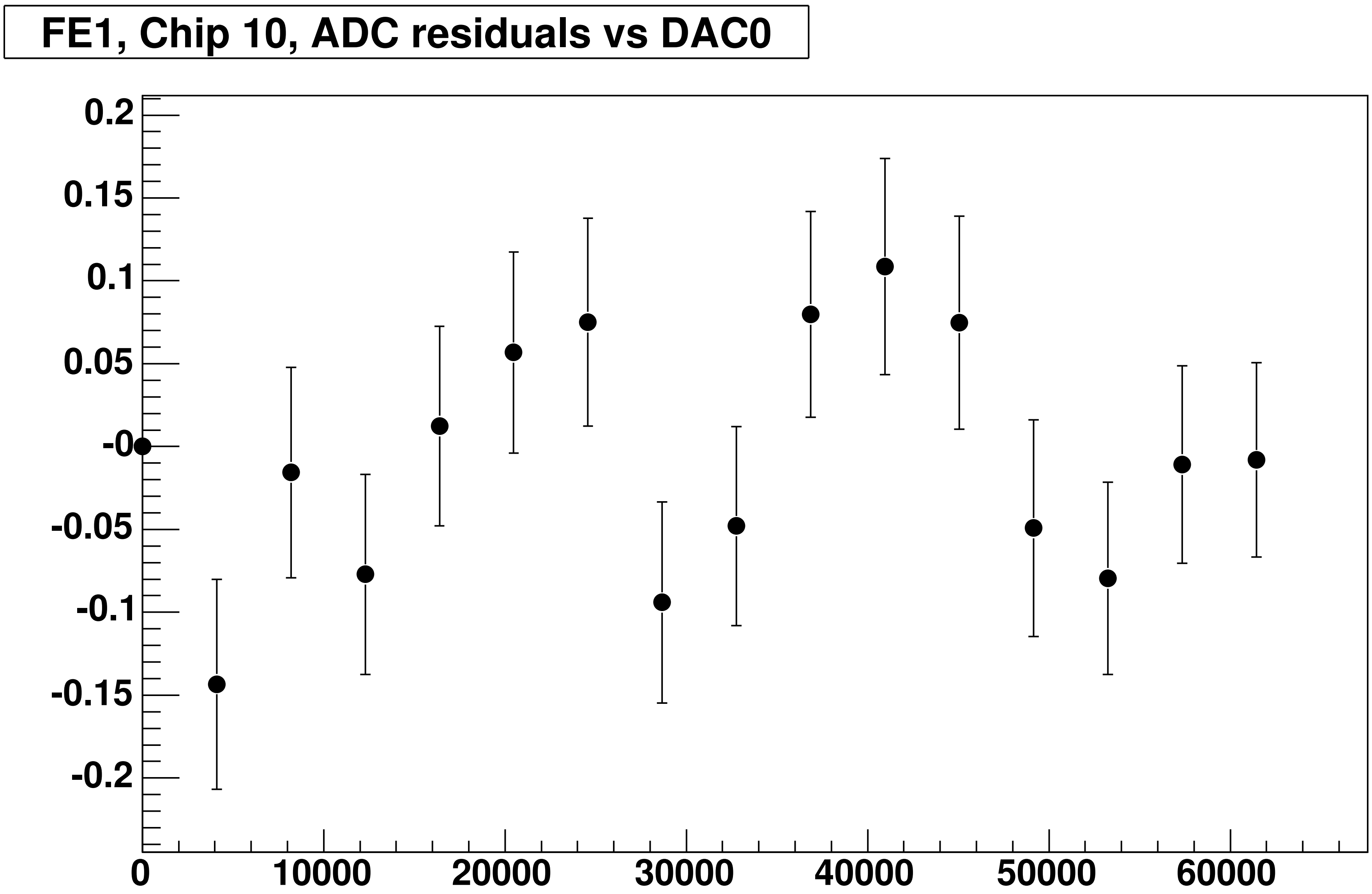

FE1, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

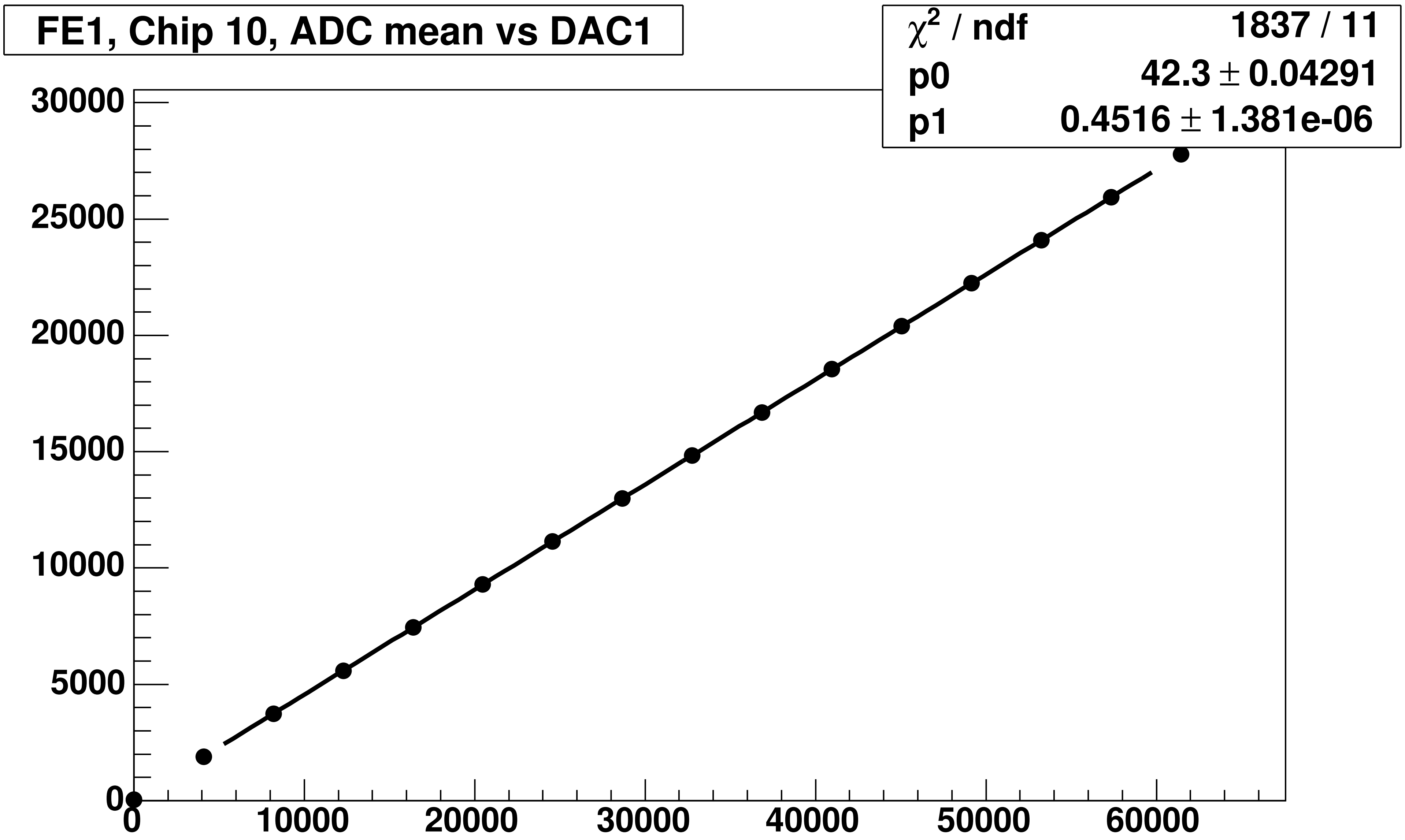

FE1, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



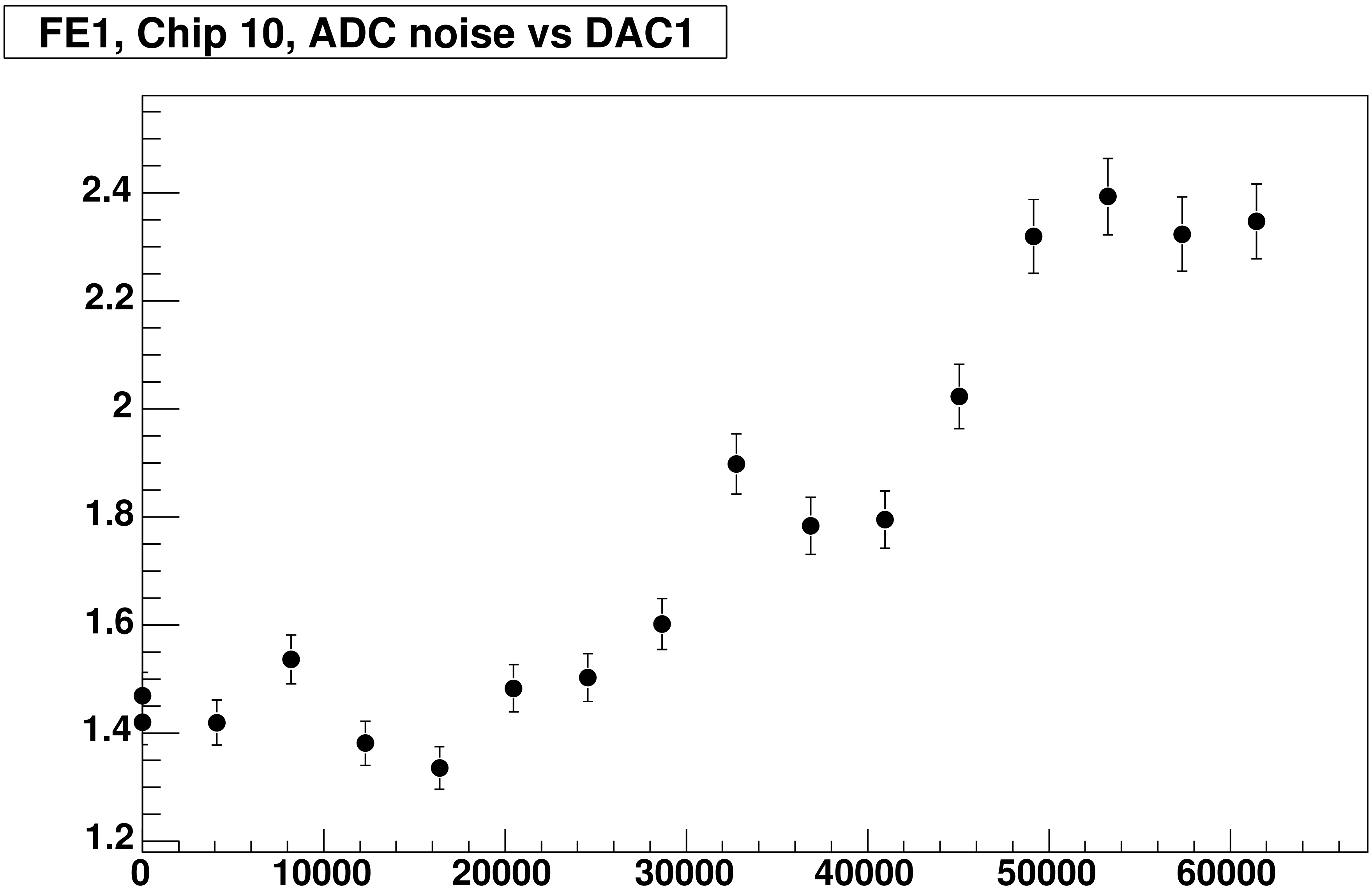
FE1, Chip 10, ADC mean vs DAC0
χ^2 / ndf 15.35 / 11
p0 39.32 ± 0.04006
p1 6.088e-07 ± 1.106e-06
39.55
39.5
39.45
39.4
39.35
39.3
39.25
39.2
39.15
39.1
0
10000
20000
30000
40000
50000
60000

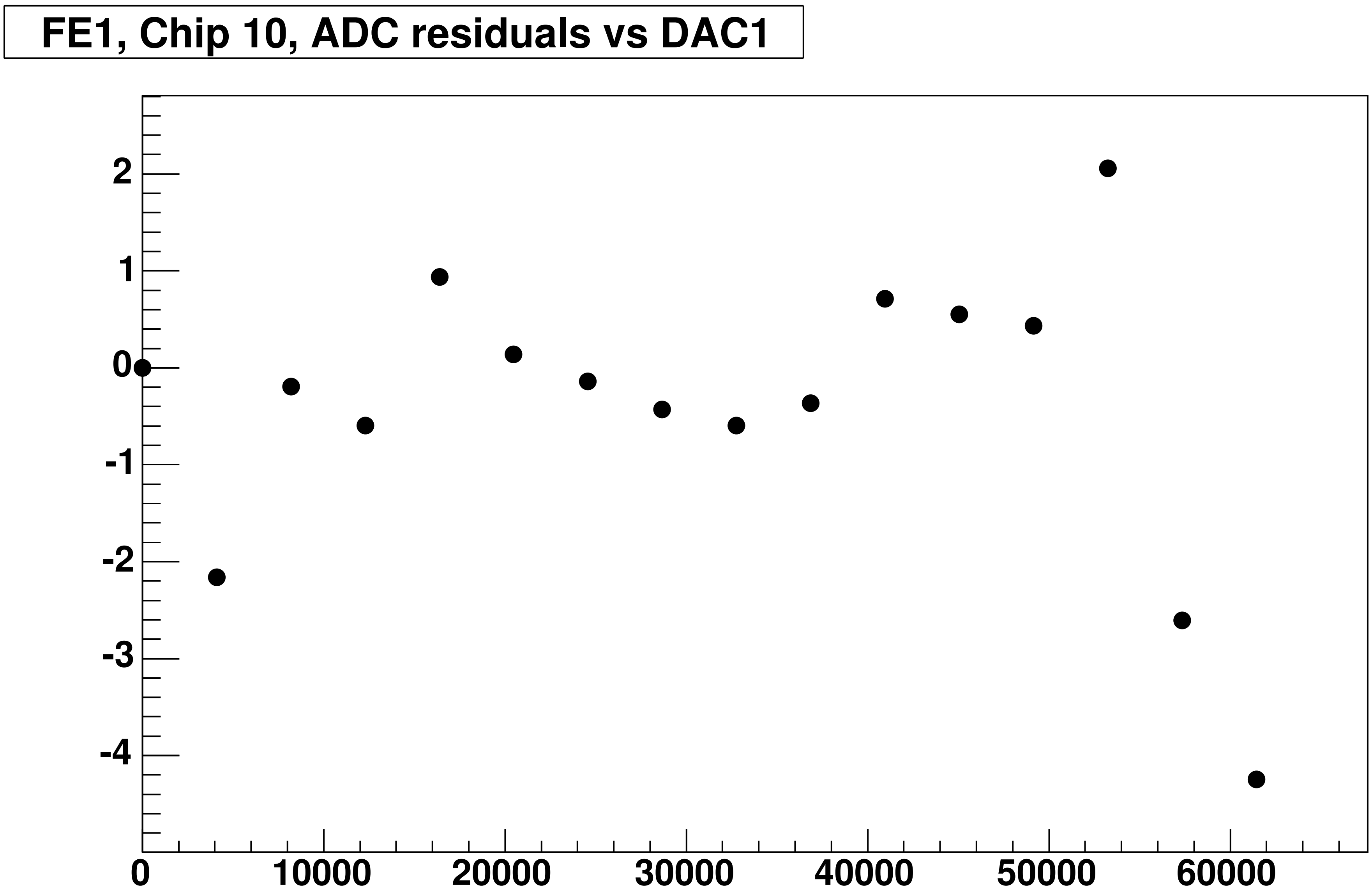

FE1, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

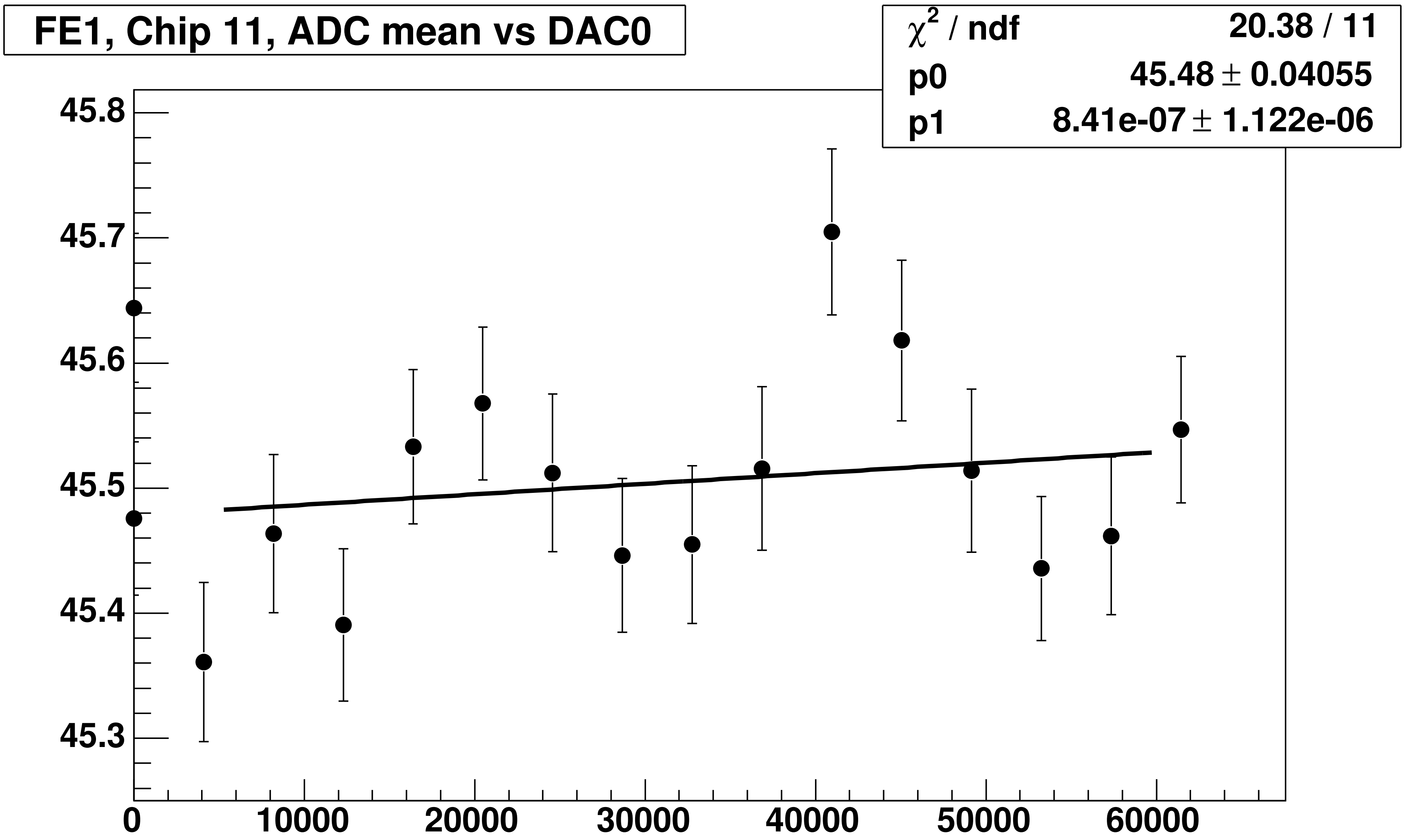

FE1, Chip 10, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

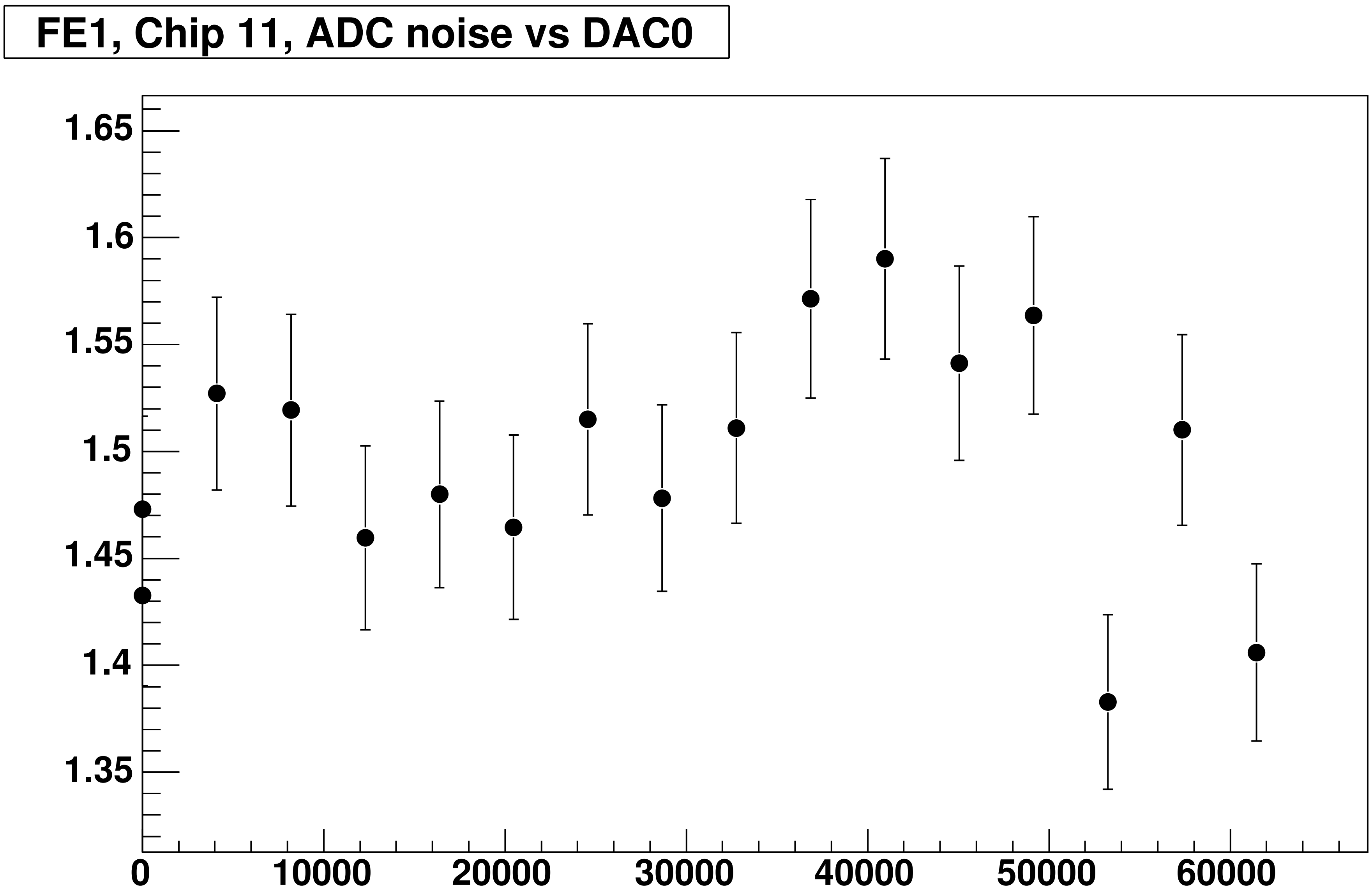


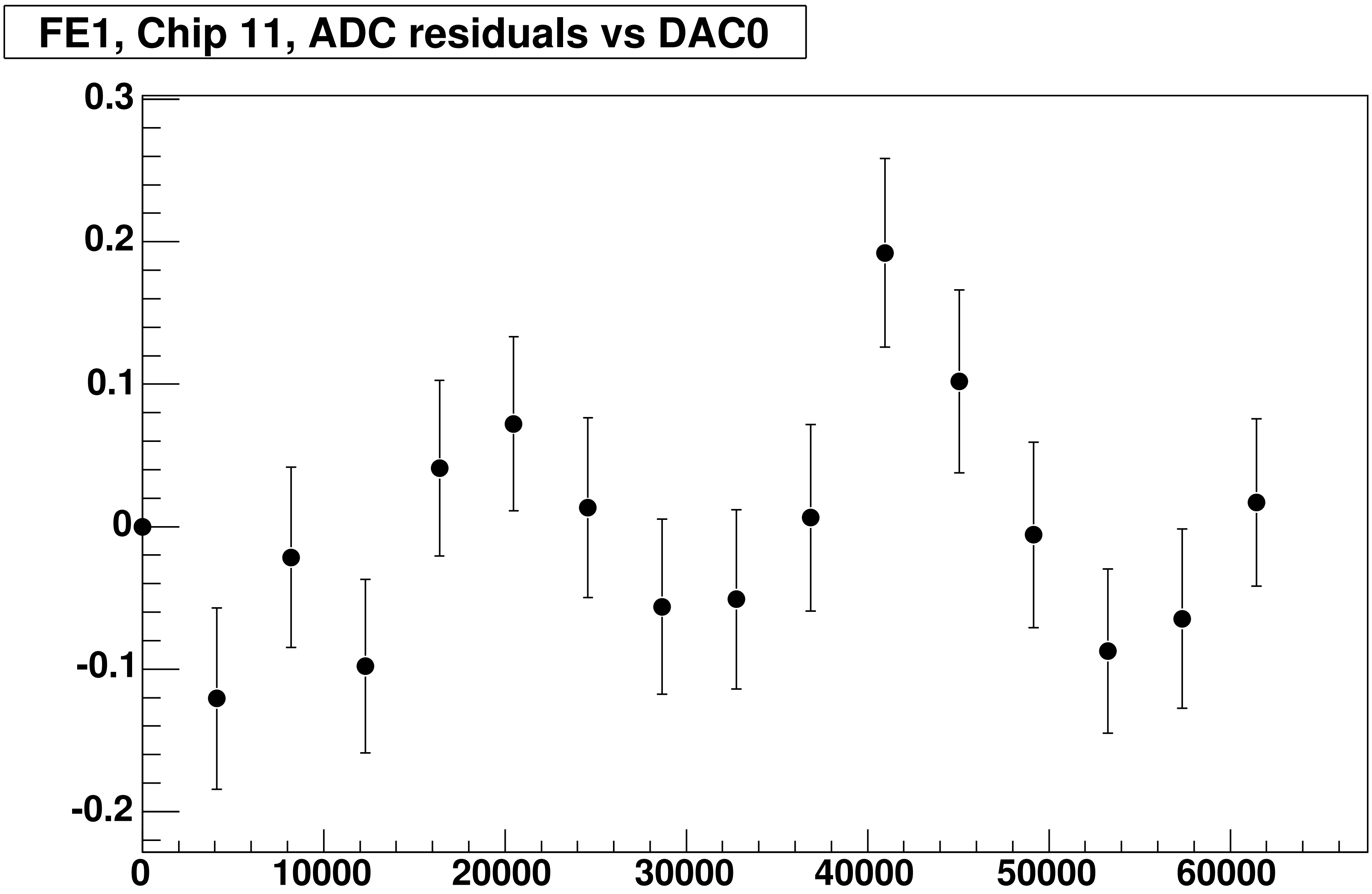
FE1, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1837 / 11
p0 42.3 ± 0.04291
p1 0.4516 ± 1.381e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

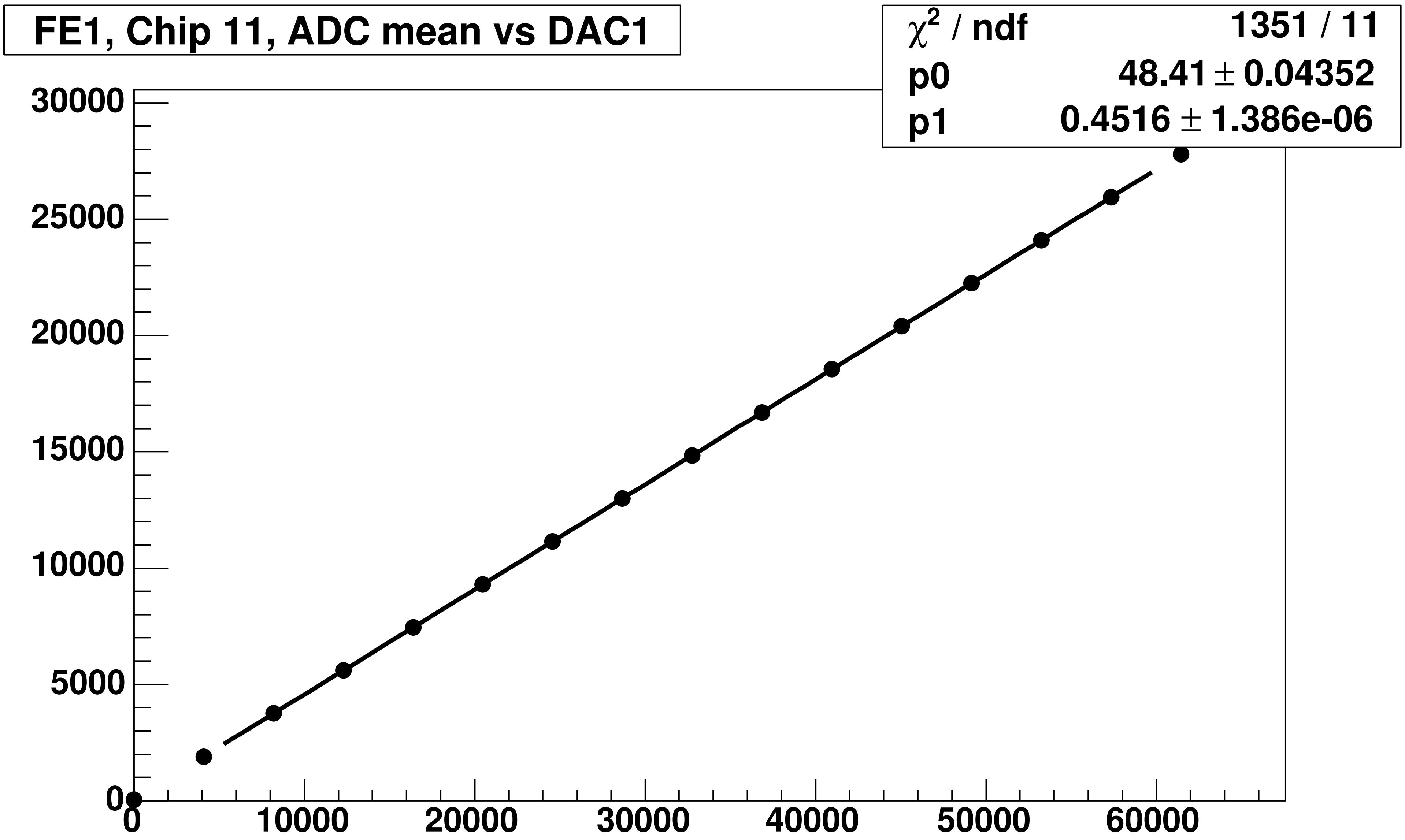

FE1, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000


FE1, Chip 11, ADC mean vs DAC0
χ^2 / ndf 20.38 / 11
p0 45.48 ± 0.04055
p1 8.41e-07 ± 1.122e-06
45.8
45.7
45.6
45.5
45.4
45.3
0
10000
20000
30000
40000
50000
60000

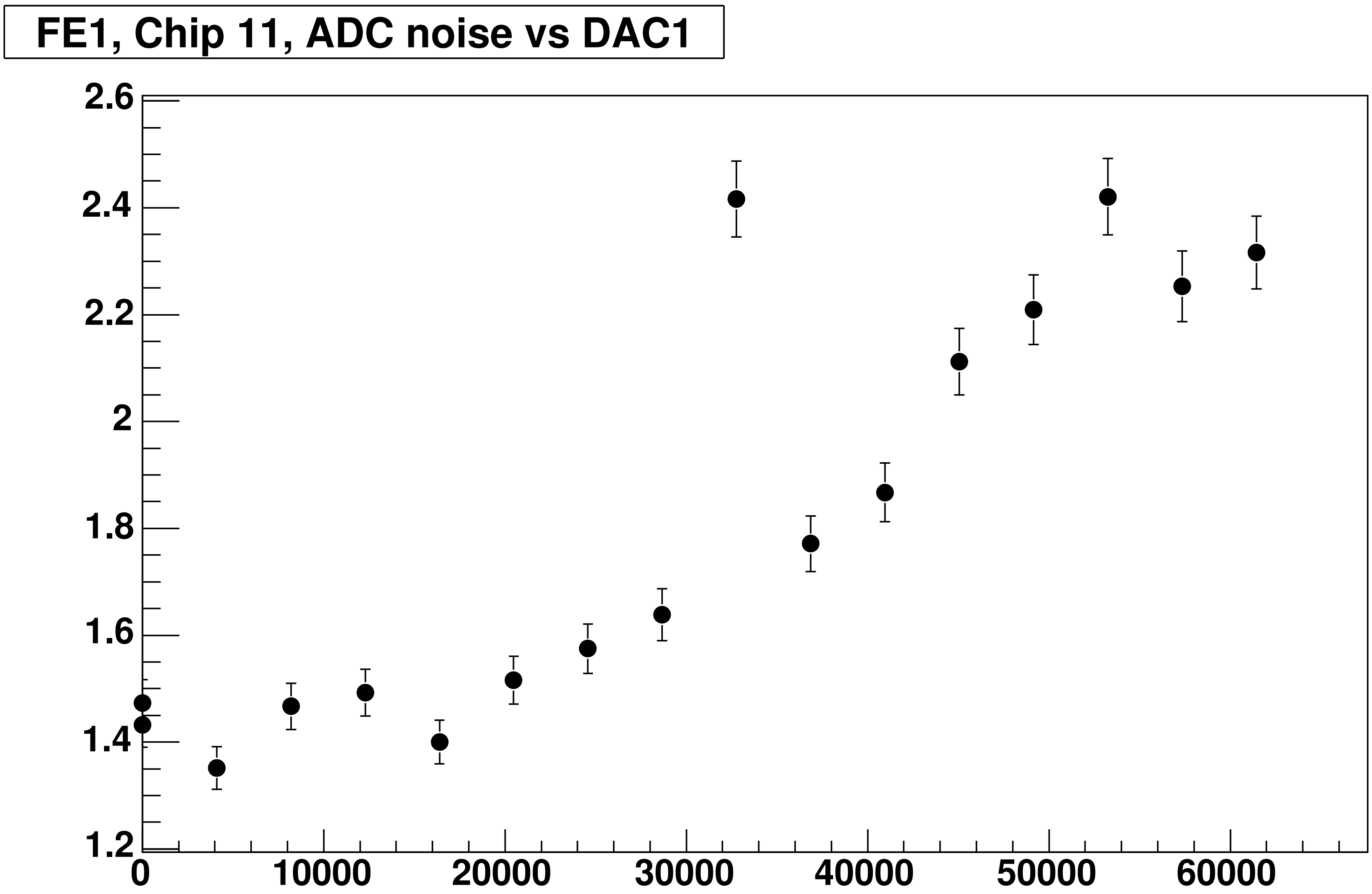

FE1, Chip 11, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

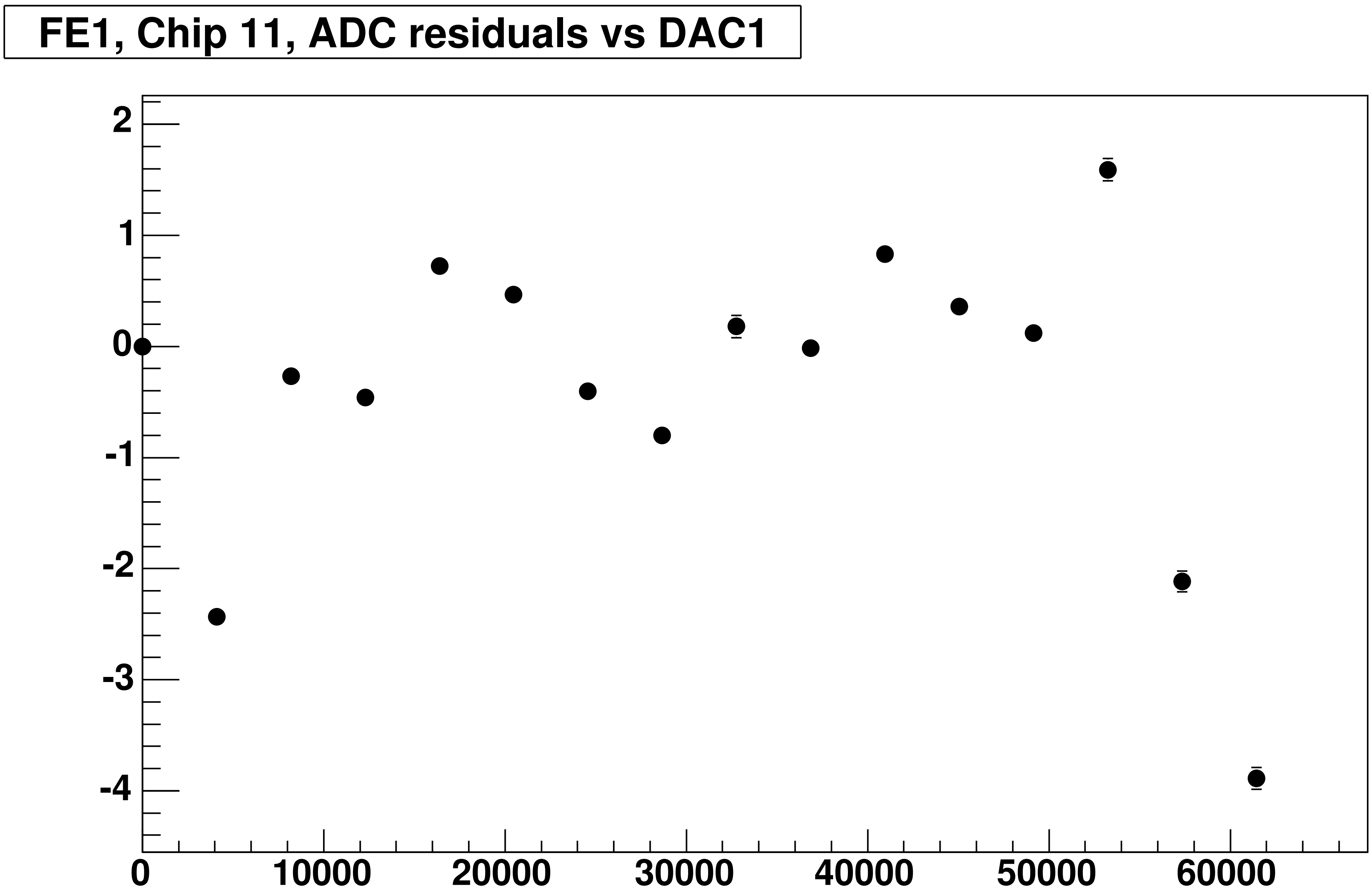


FE1, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

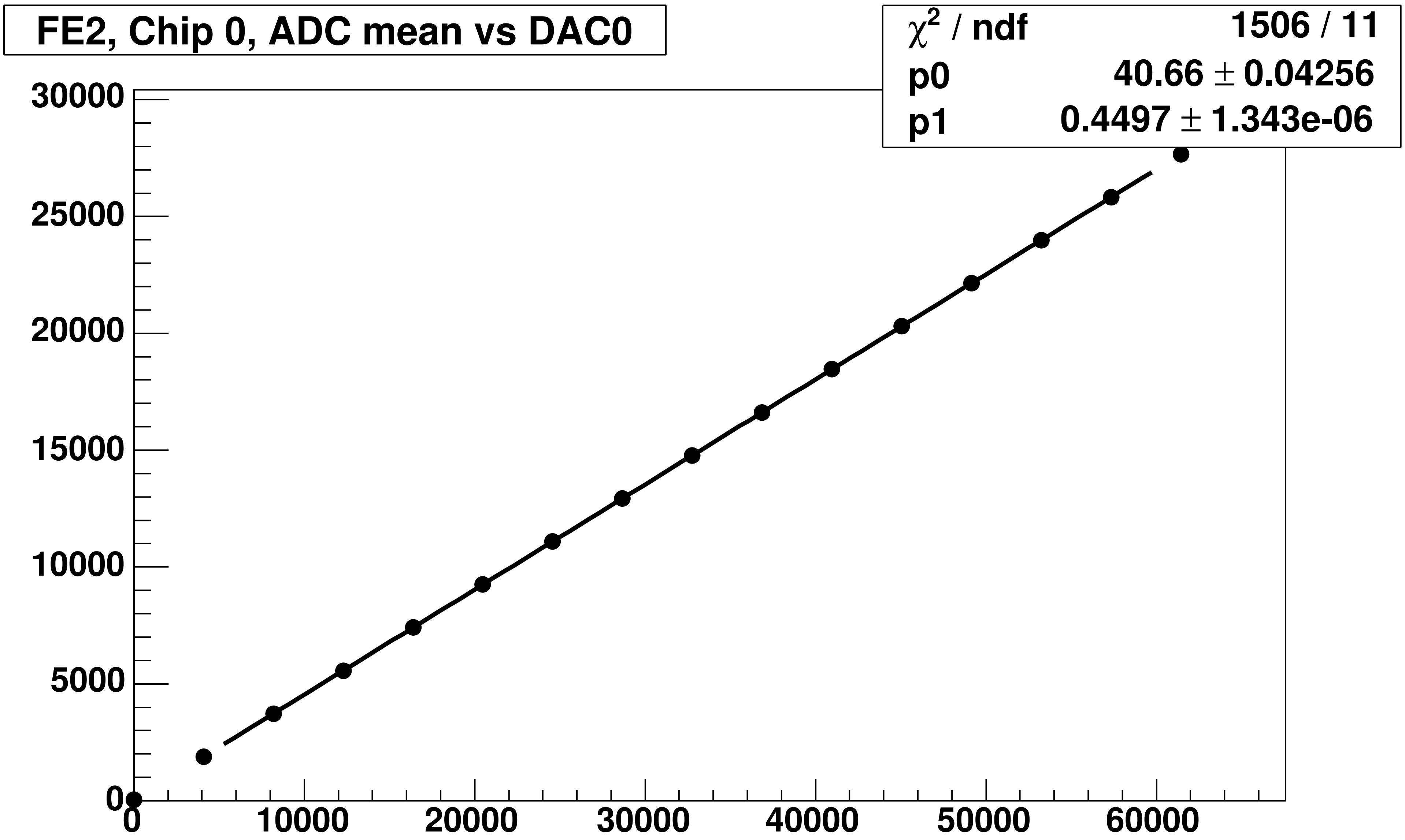


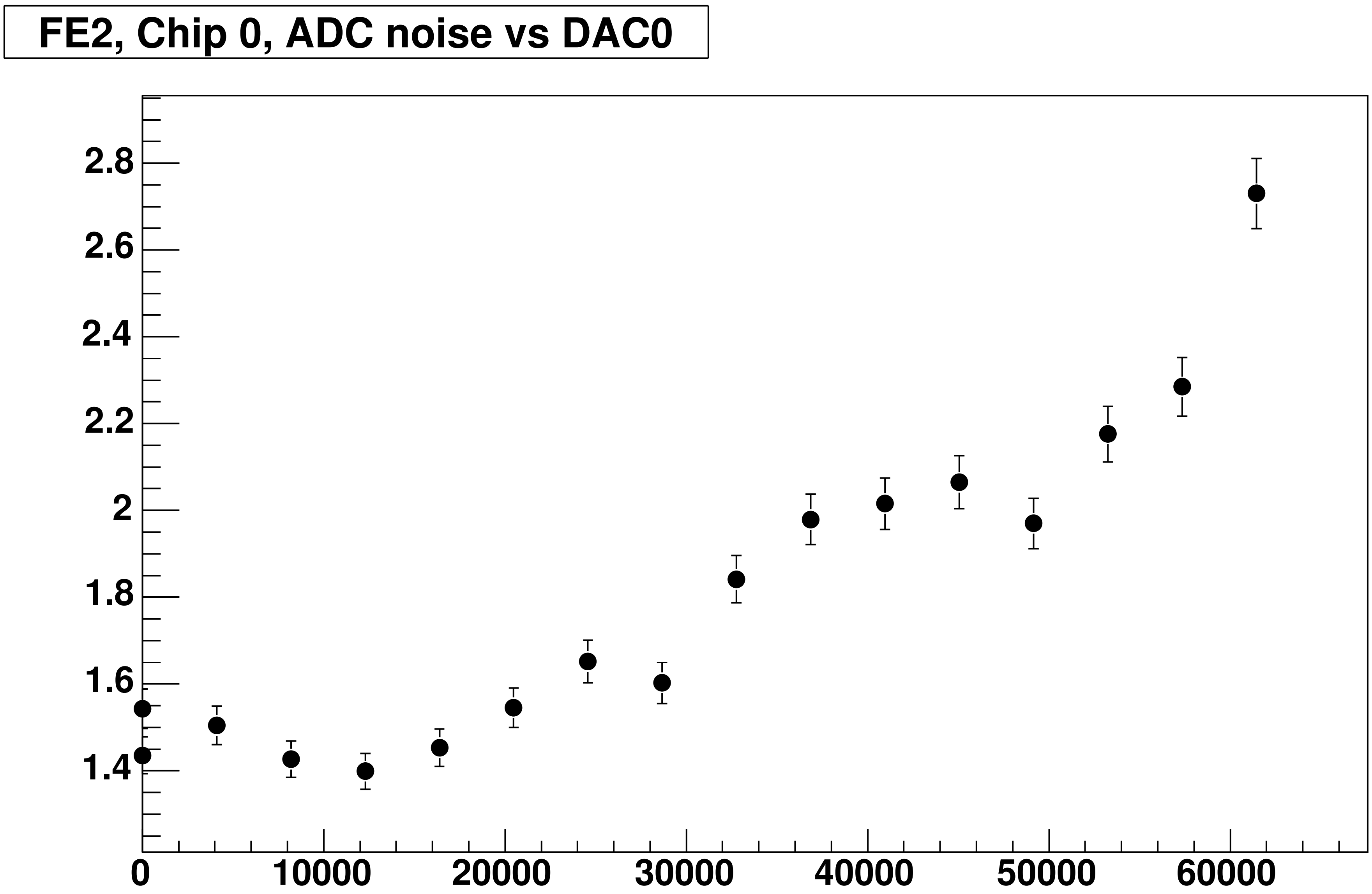
FE1, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1351 / 11
p0 48.41 ± 0.04352
p1 0.4516 ± 1.386e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

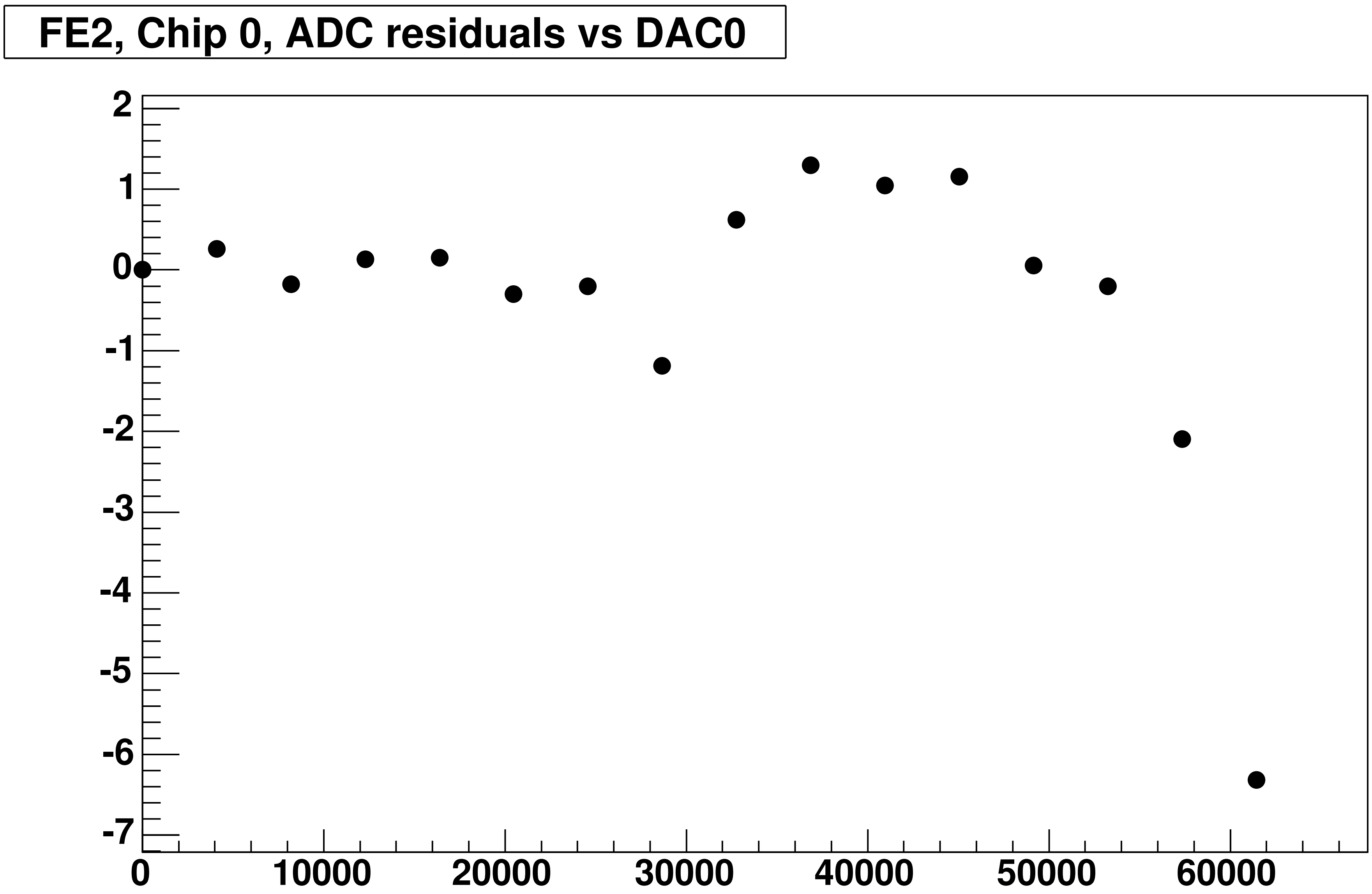

FE1, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

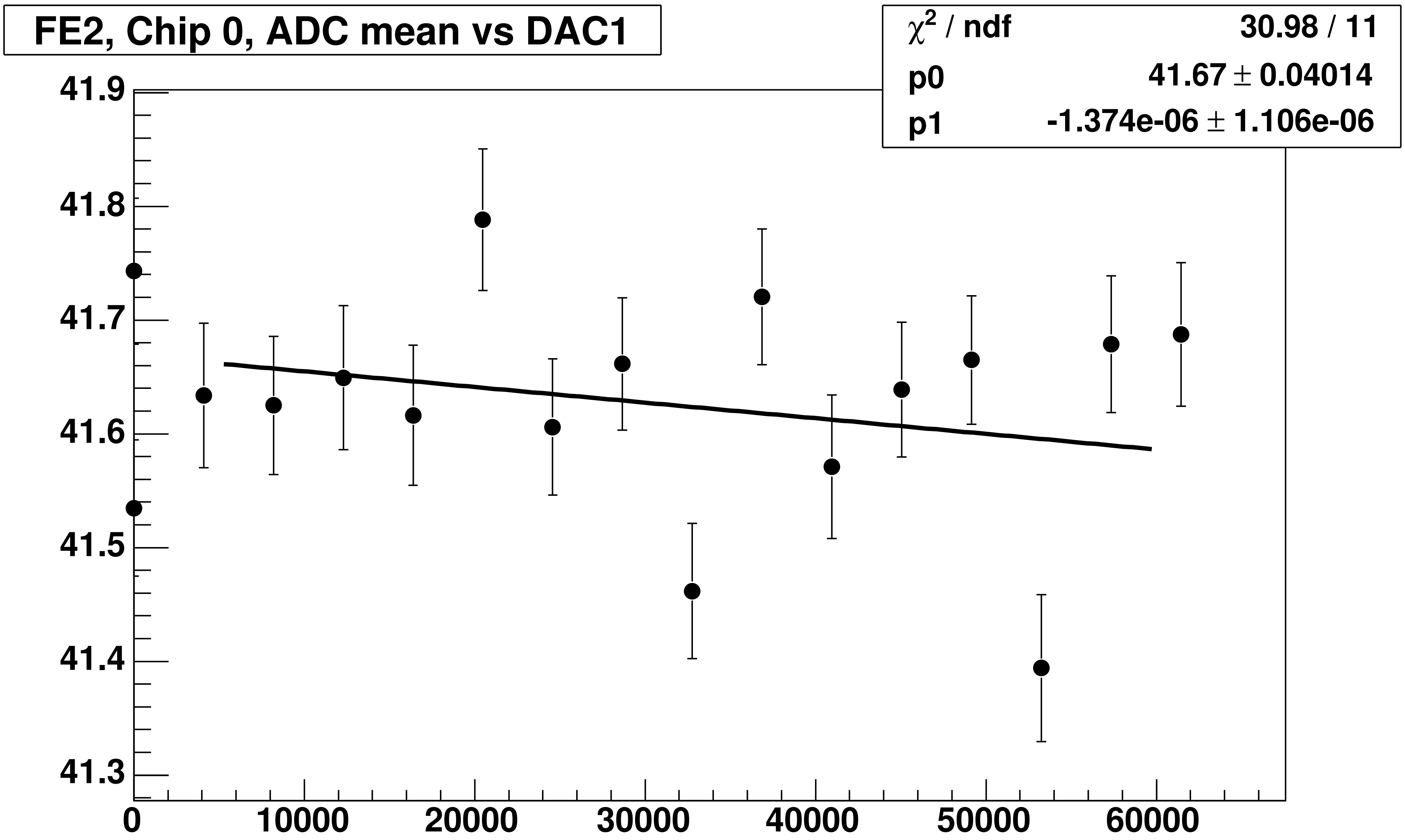


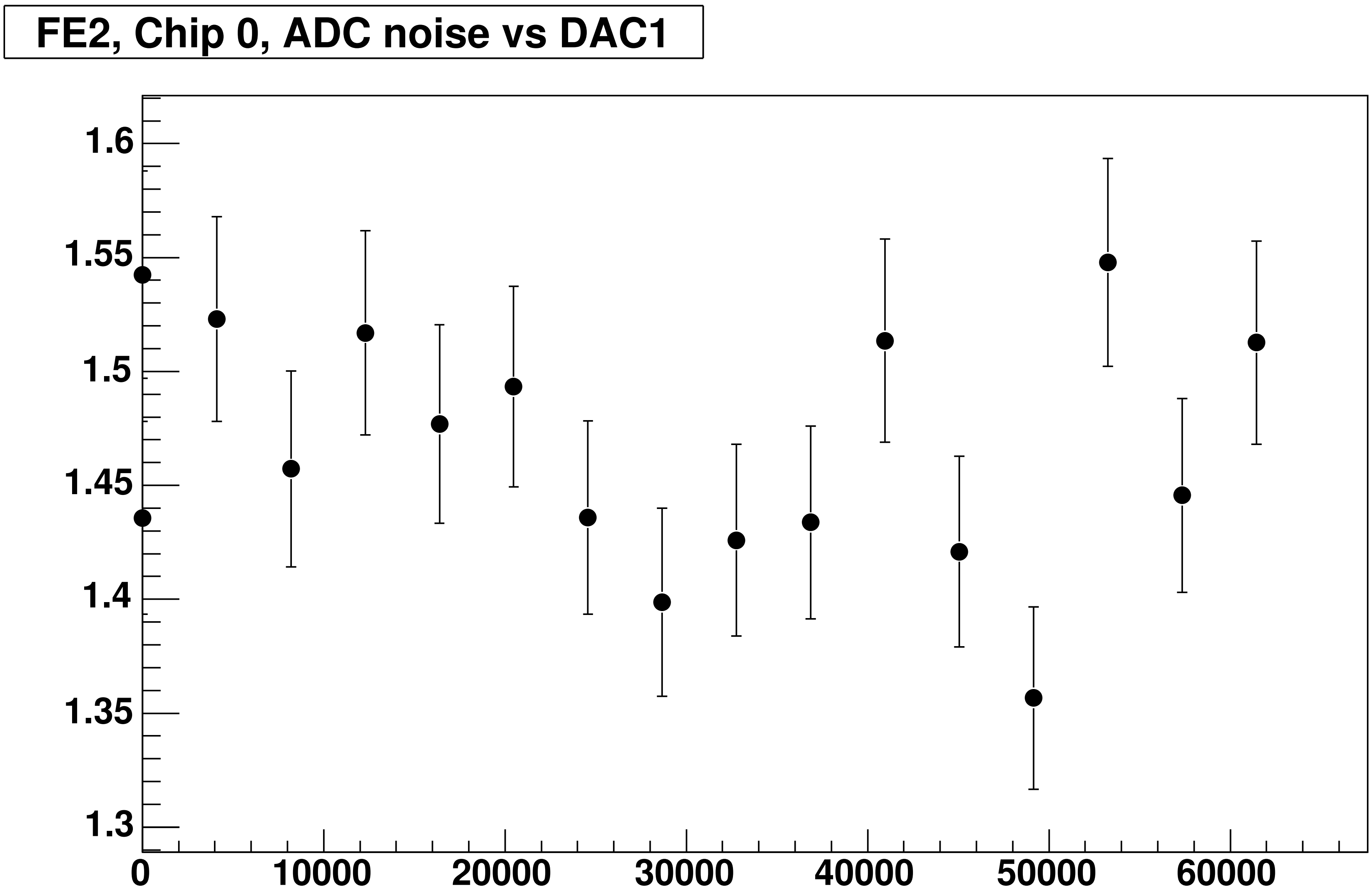
FE1, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

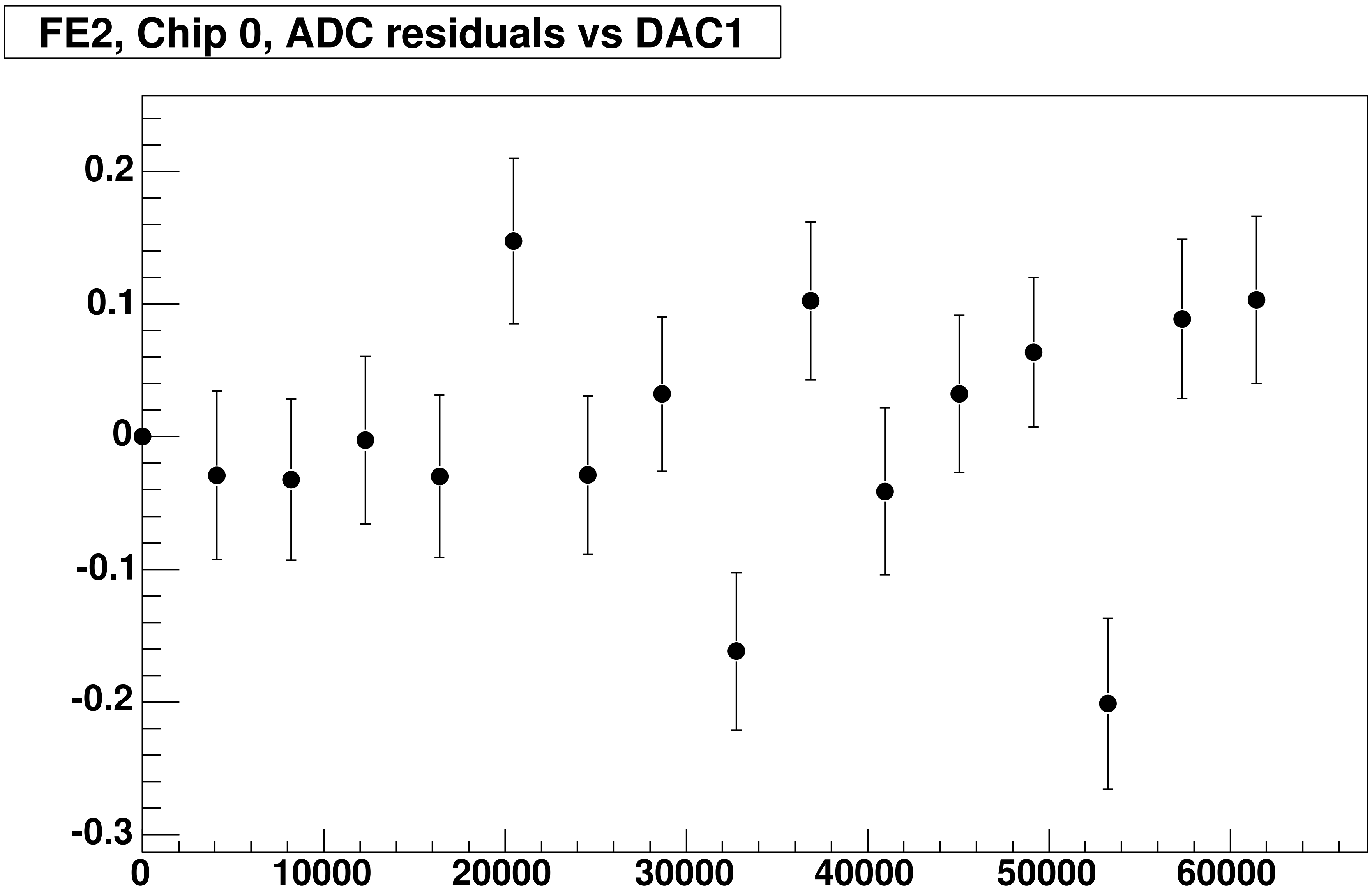

FE2, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1506 / 11
p0 40.66 ± 0.04256
p1 0.4497 ± 1.343e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

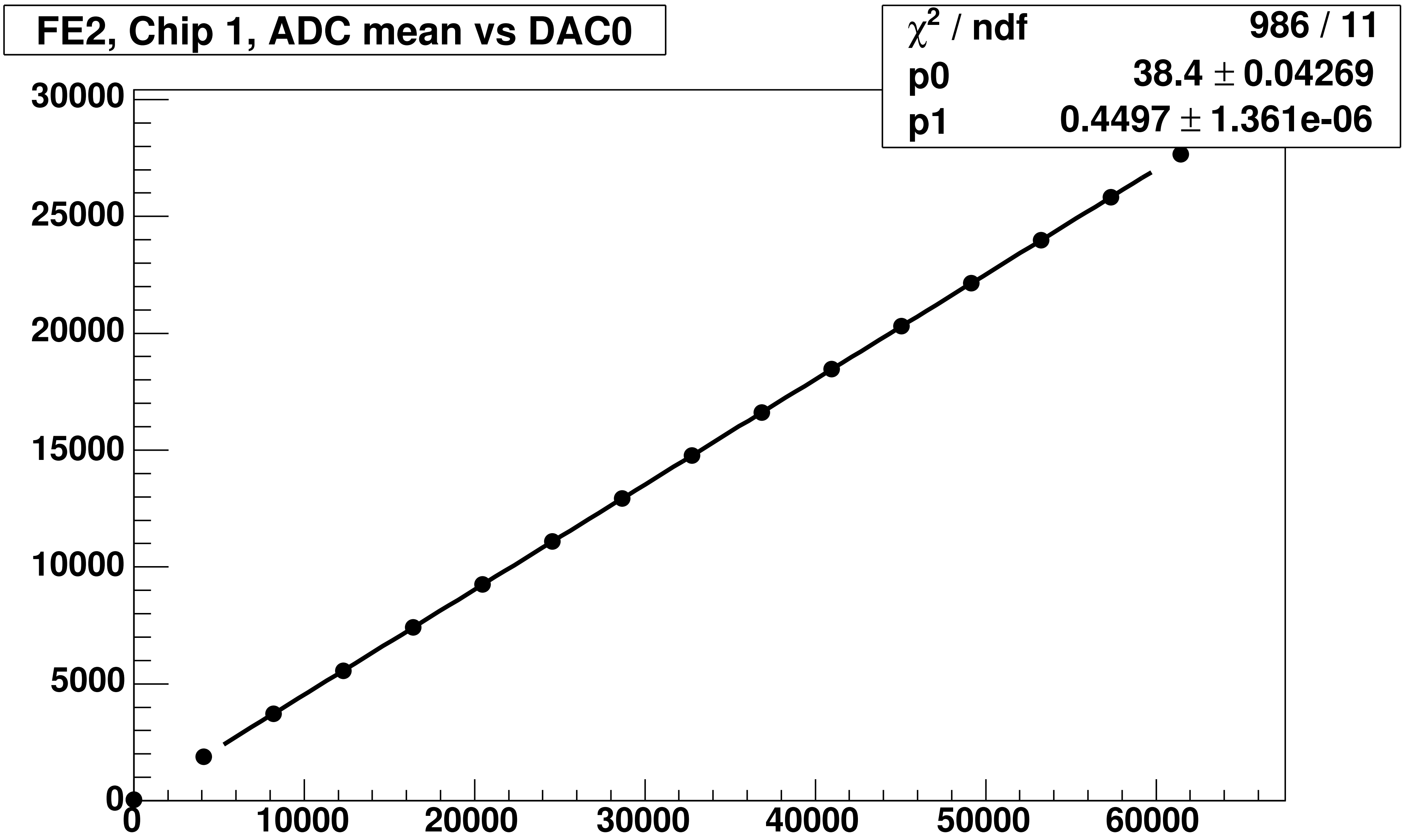

FE2, Chip 0, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE2, Chip 0, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

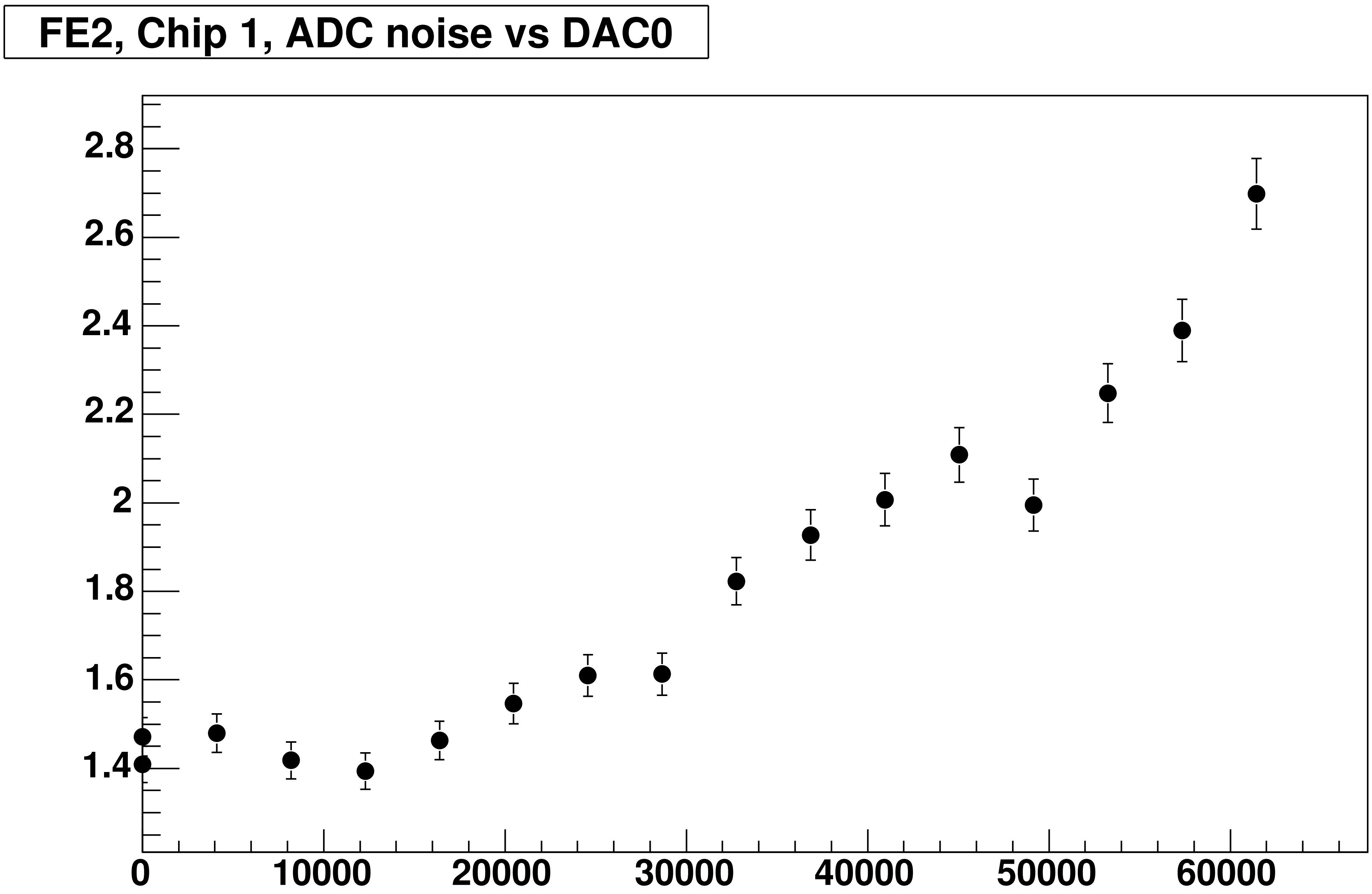

FE2, Chip 0, ADC mean vs DAC1
χ² / ndf 30.98 / 11
p0 41.67 ± 0.04014
p1 -1.374e-06 ± 1.106e-06
41.9
41.8
41.7
41.6
41.5
41.4
41.3
0
10000
20000
30000
40000
50000
60000


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

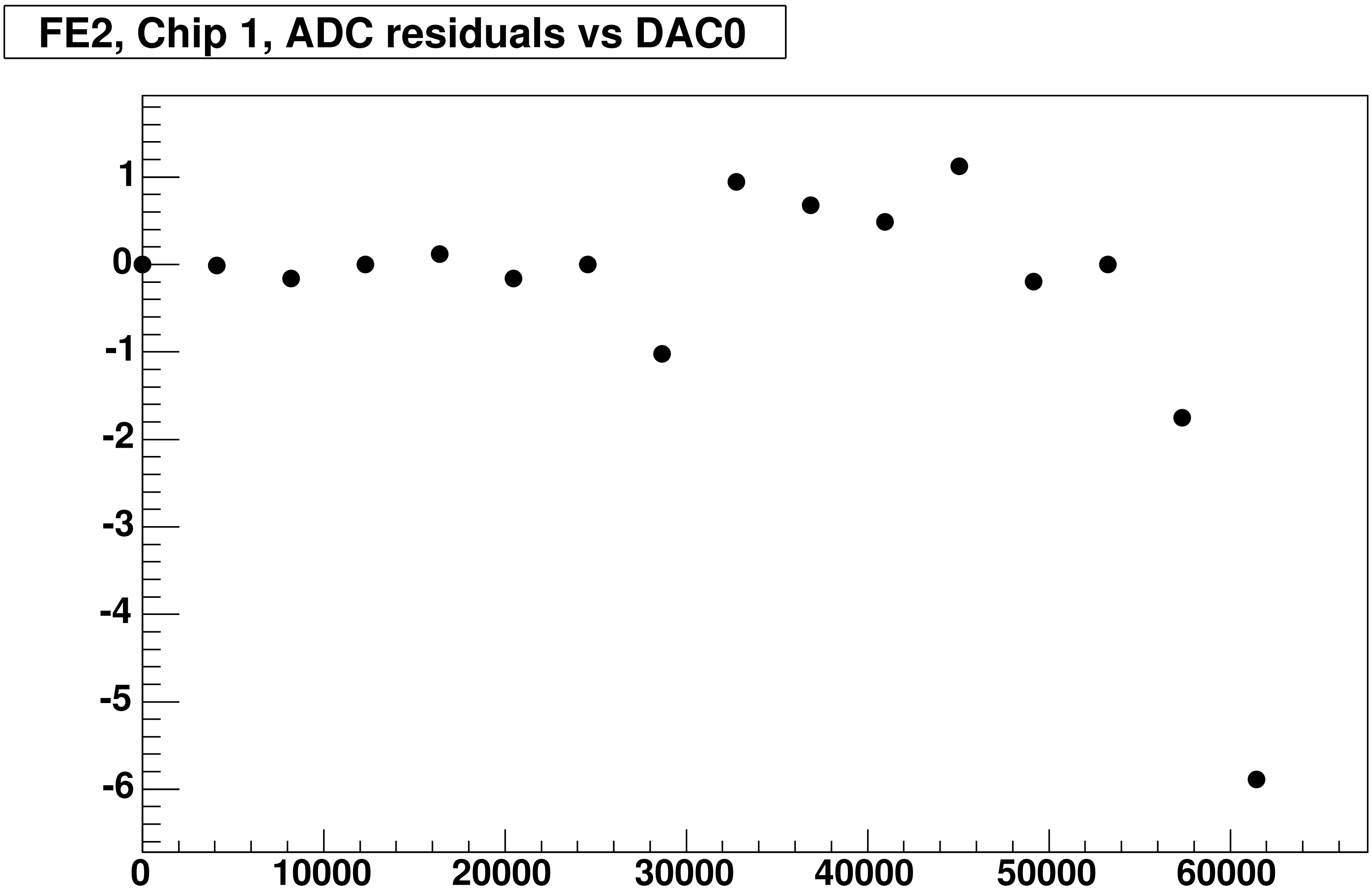

FE2, Chip 0, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

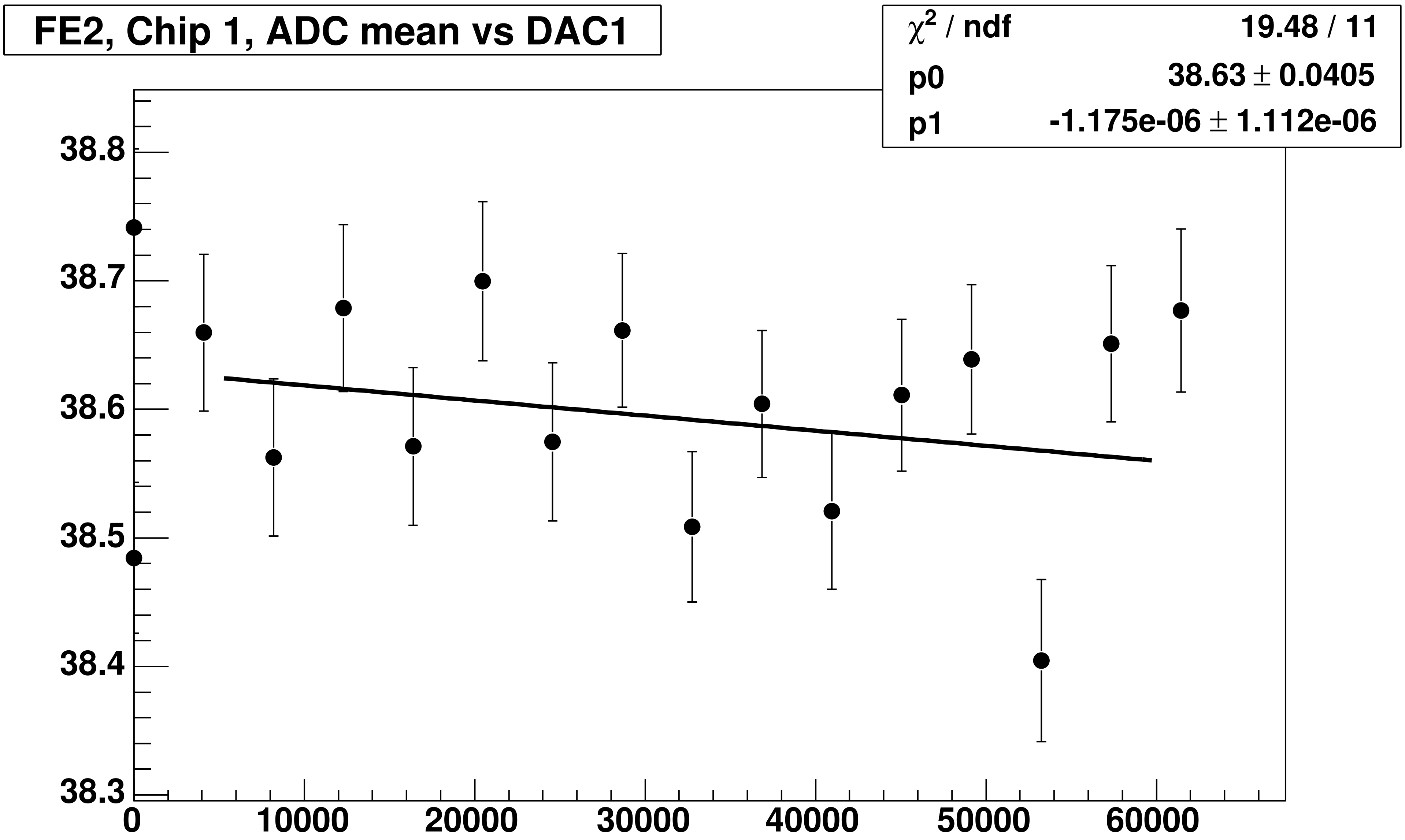


FE2, Chip 1, ADC mean vs DAC0
χ^2 / ndf 986 / 11
p0 38.4 ± 0.04269
p1 0.4497 ± 1.361e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

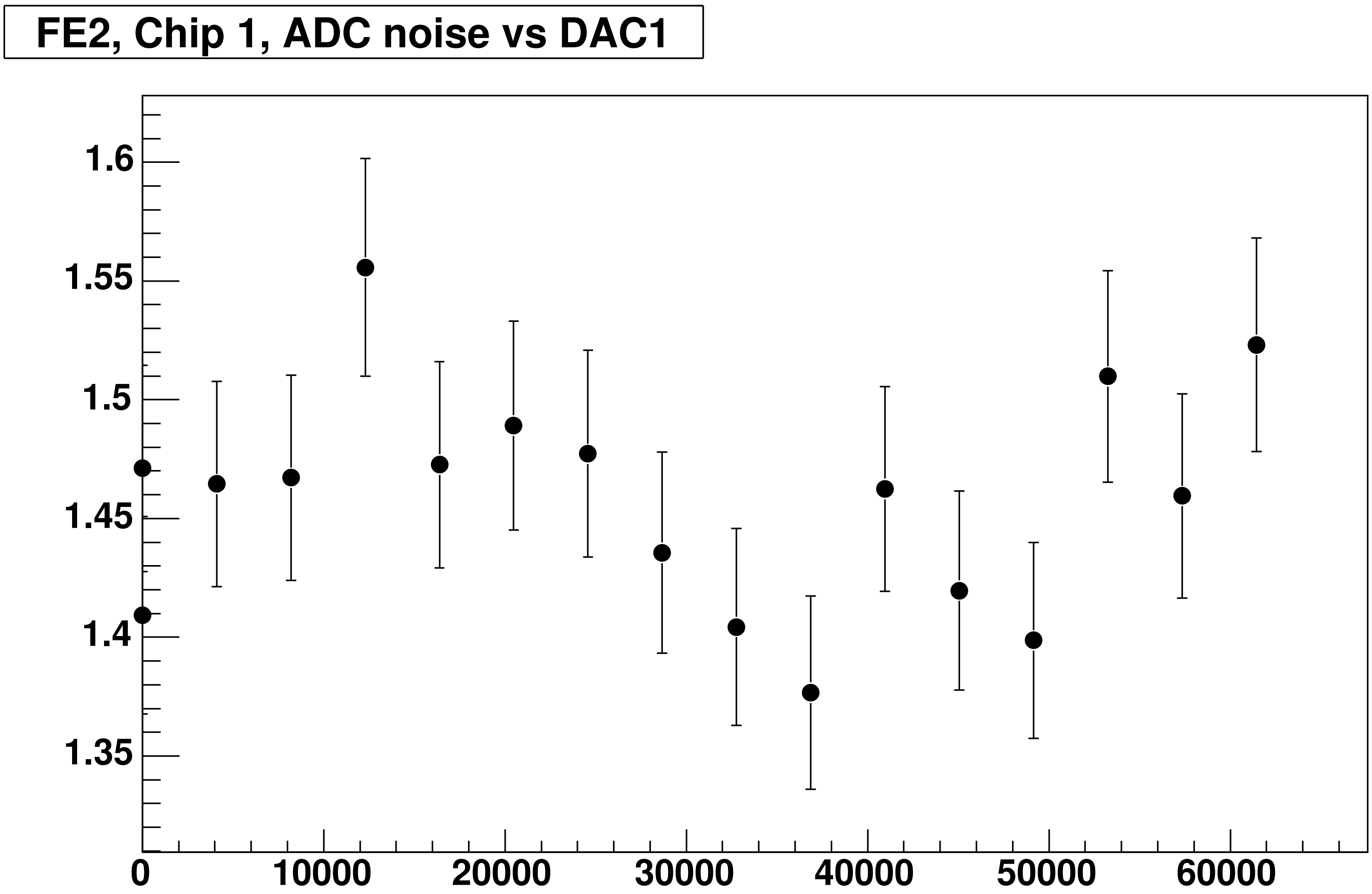


FE2, Chip 1, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

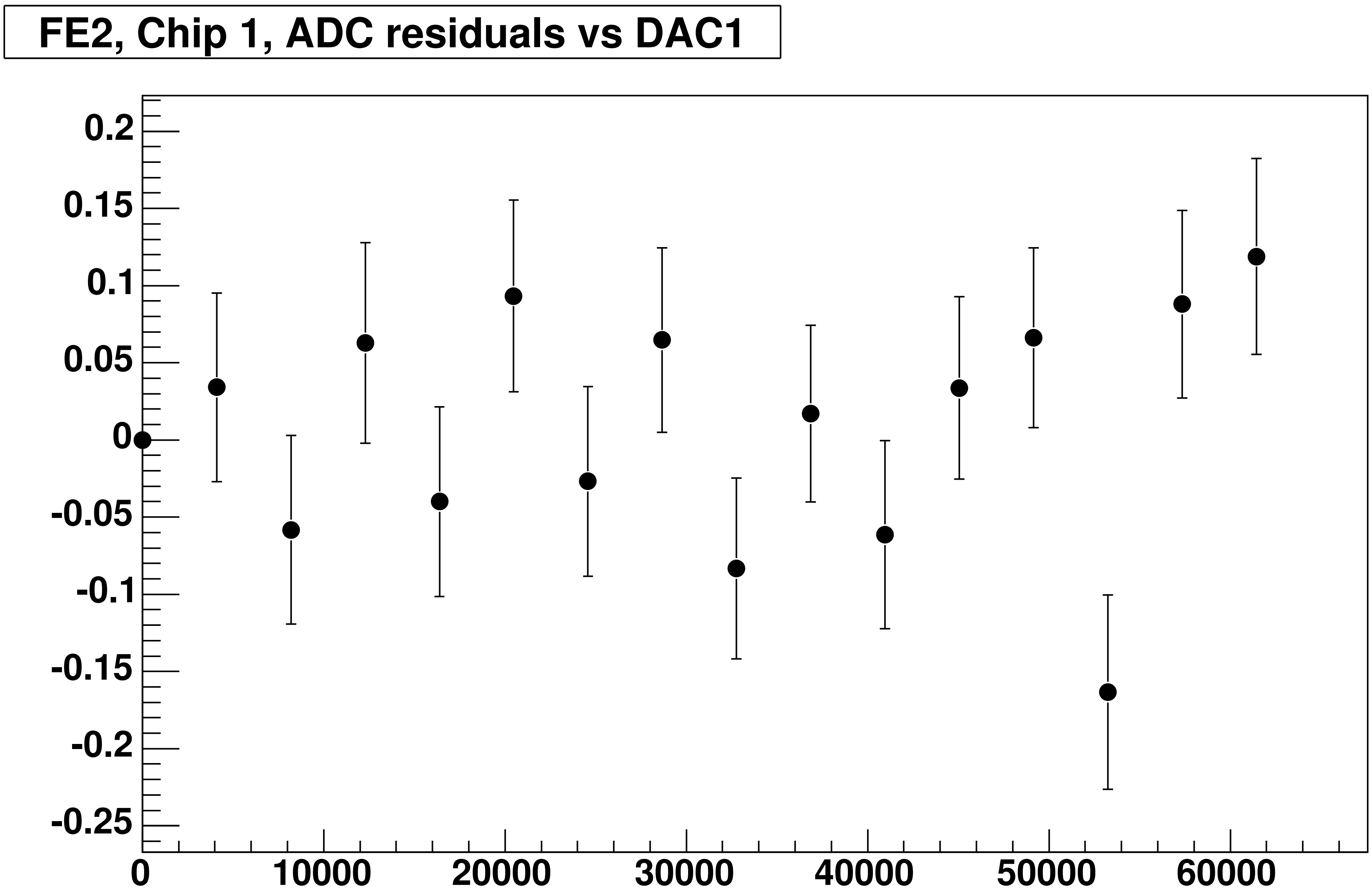

FE2, Chip 1, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

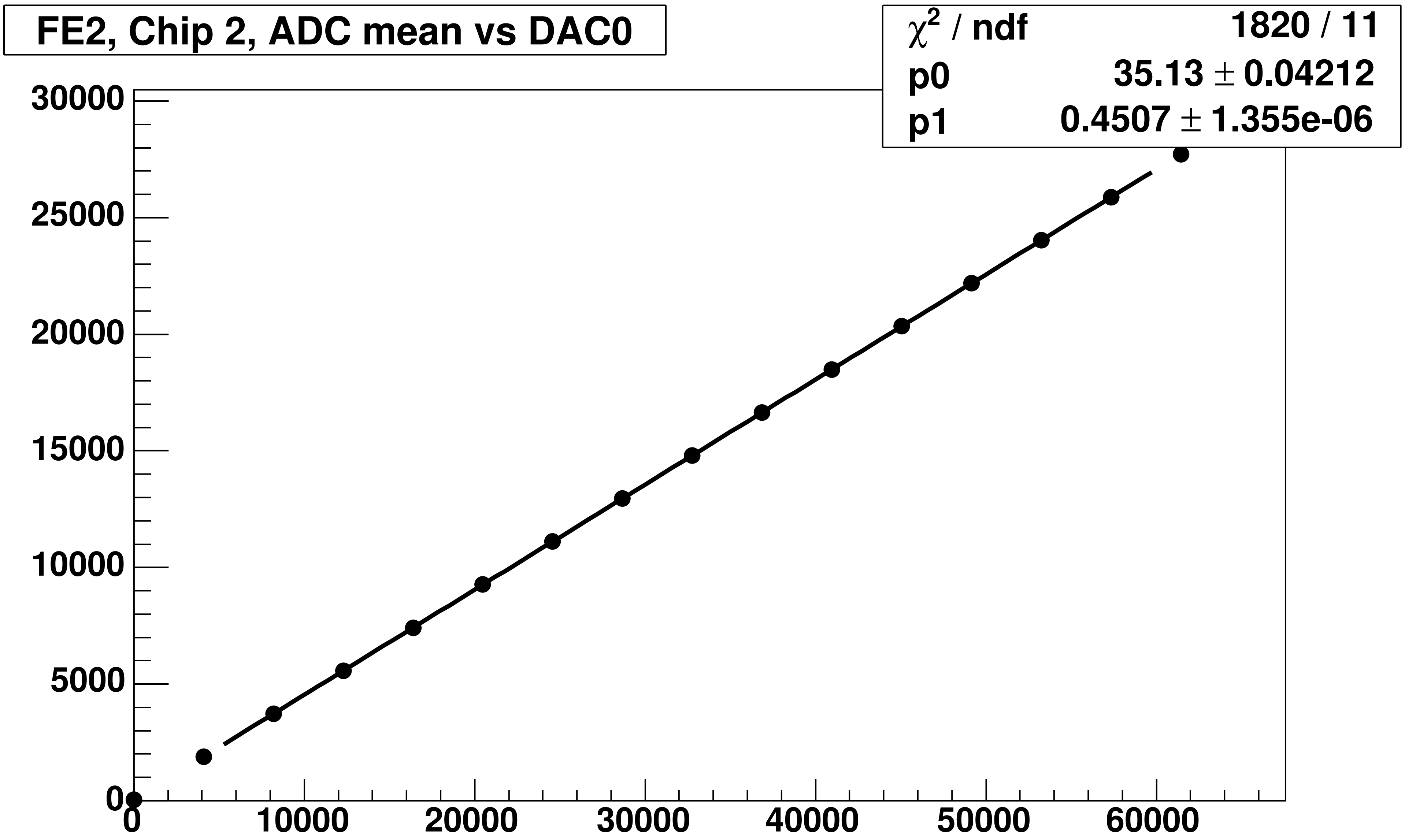


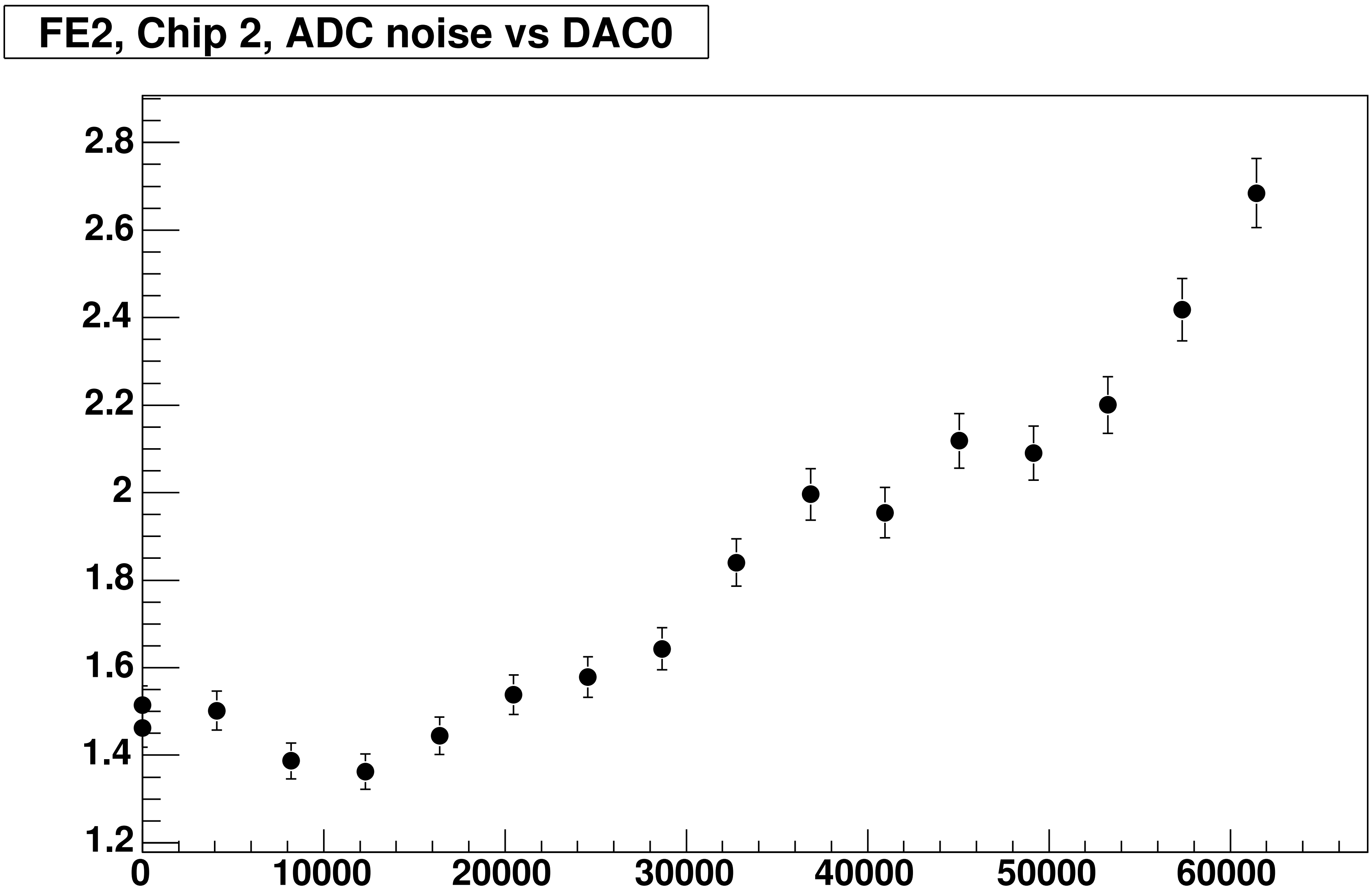
FE2, Chip 1, ADC mean vs DAC1
χ^2 / ndf 19.48 / 11
p0 38.63 ± 0.0405
p1 -1.175e-06 ± 1.112e-06
38.3
38.4
38.5
38.6
38.7
38.8
0
10000
20000
30000
40000
50000
60000



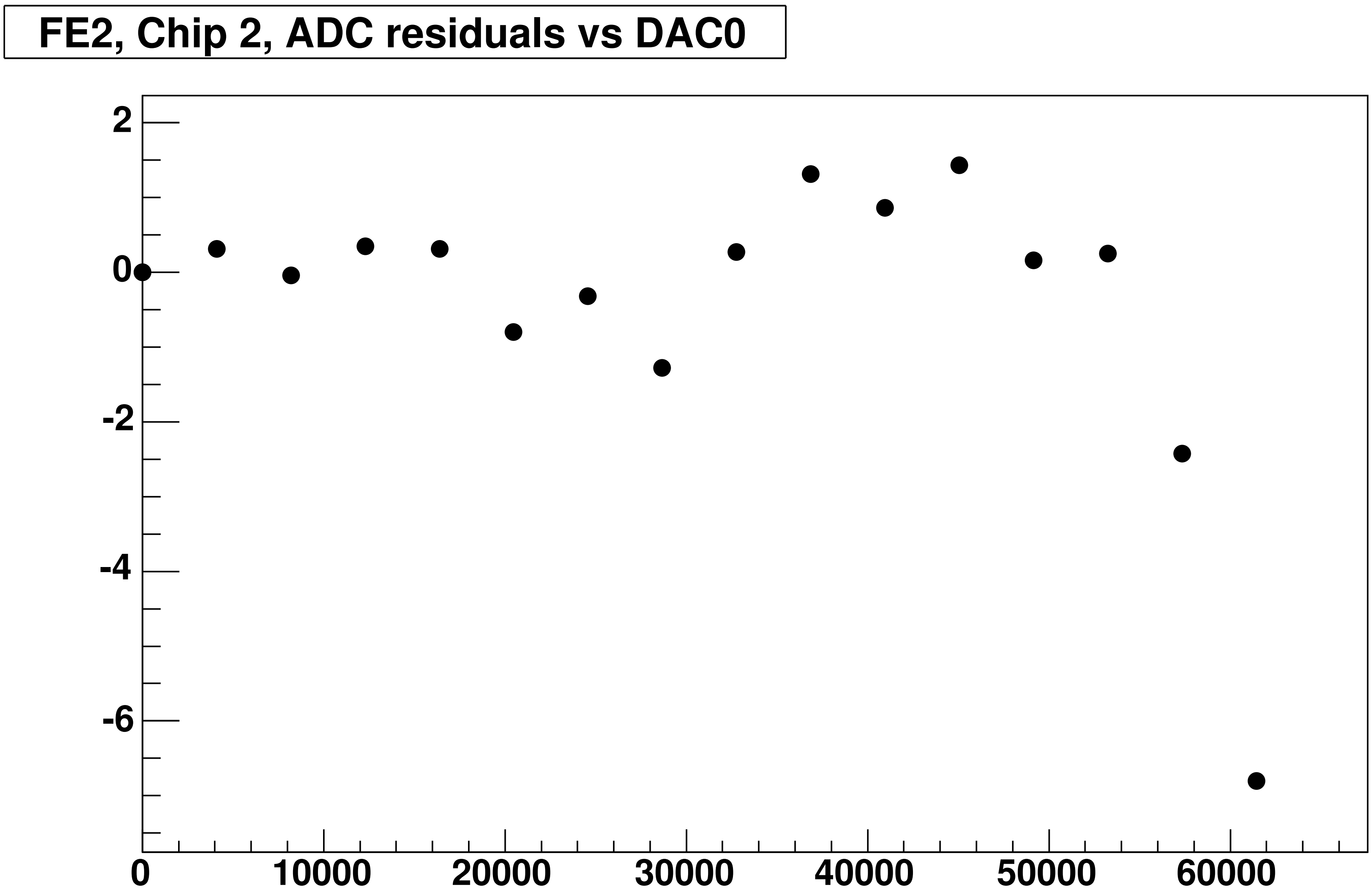
FE2, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

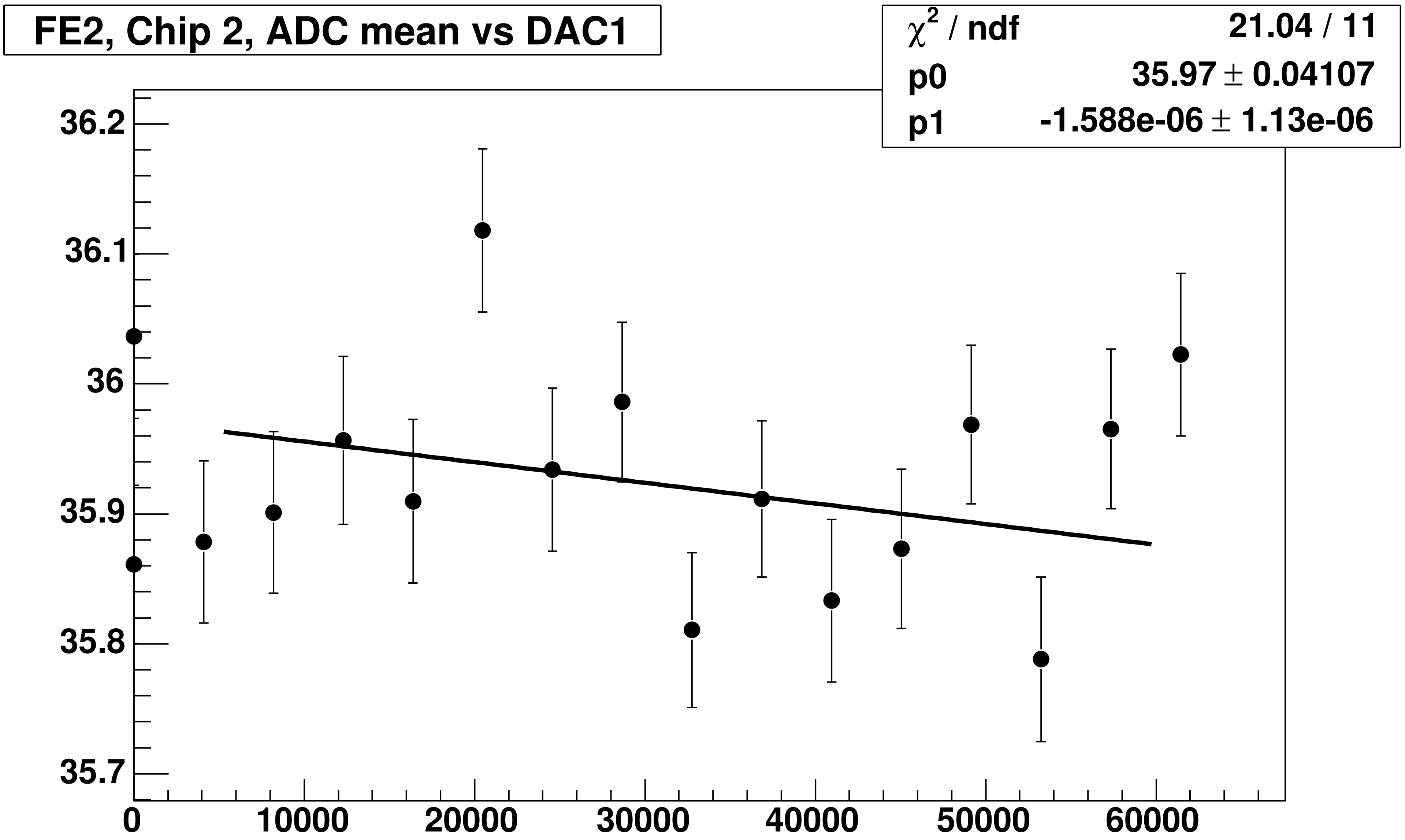

FE2, Chip 1, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

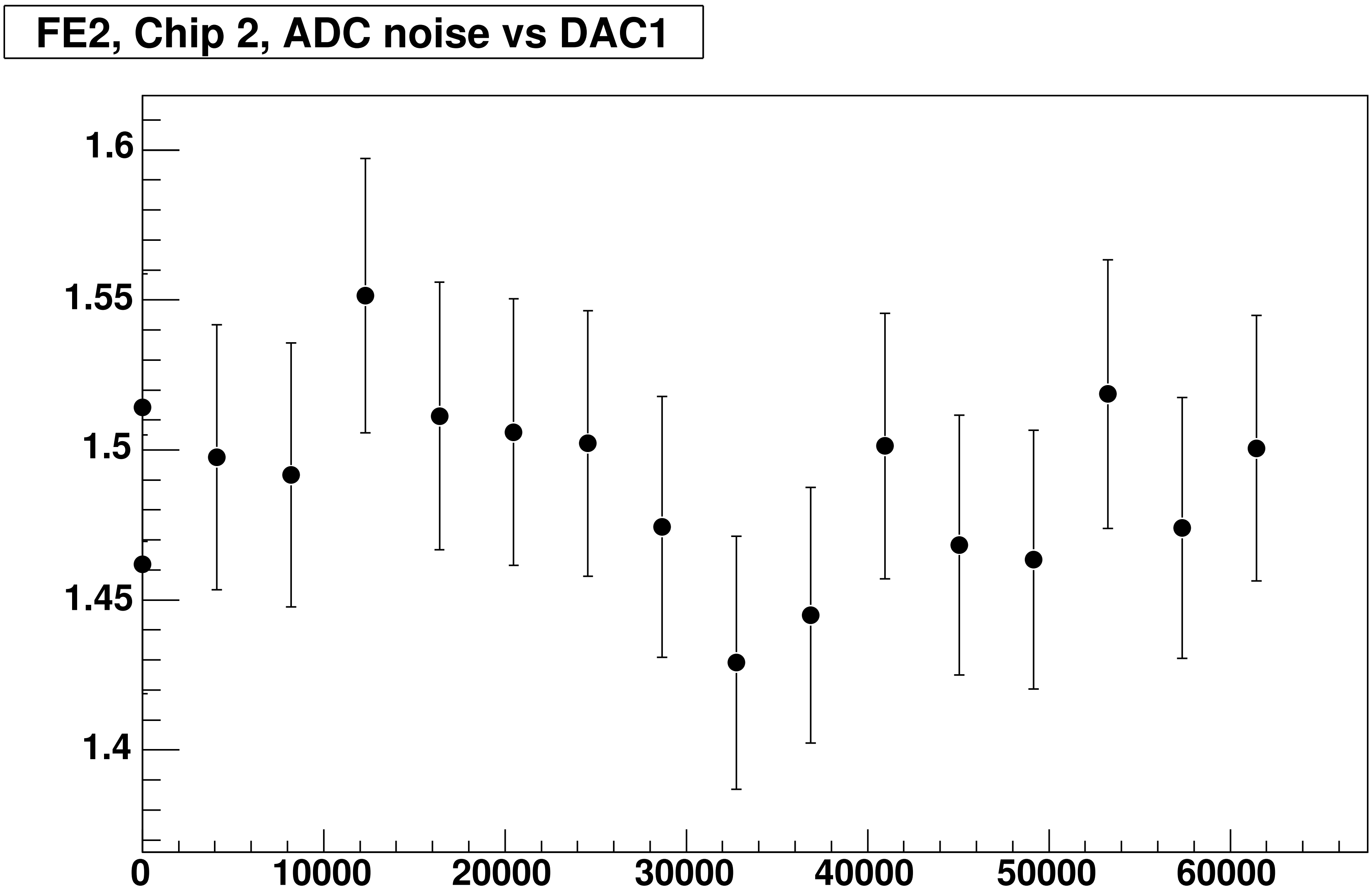

FE2, Chip 2, ADC mean vs DAC0
χ² / ndf 1820 / 11
p0 35.13 ± 0.04212
p1 0.4507 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

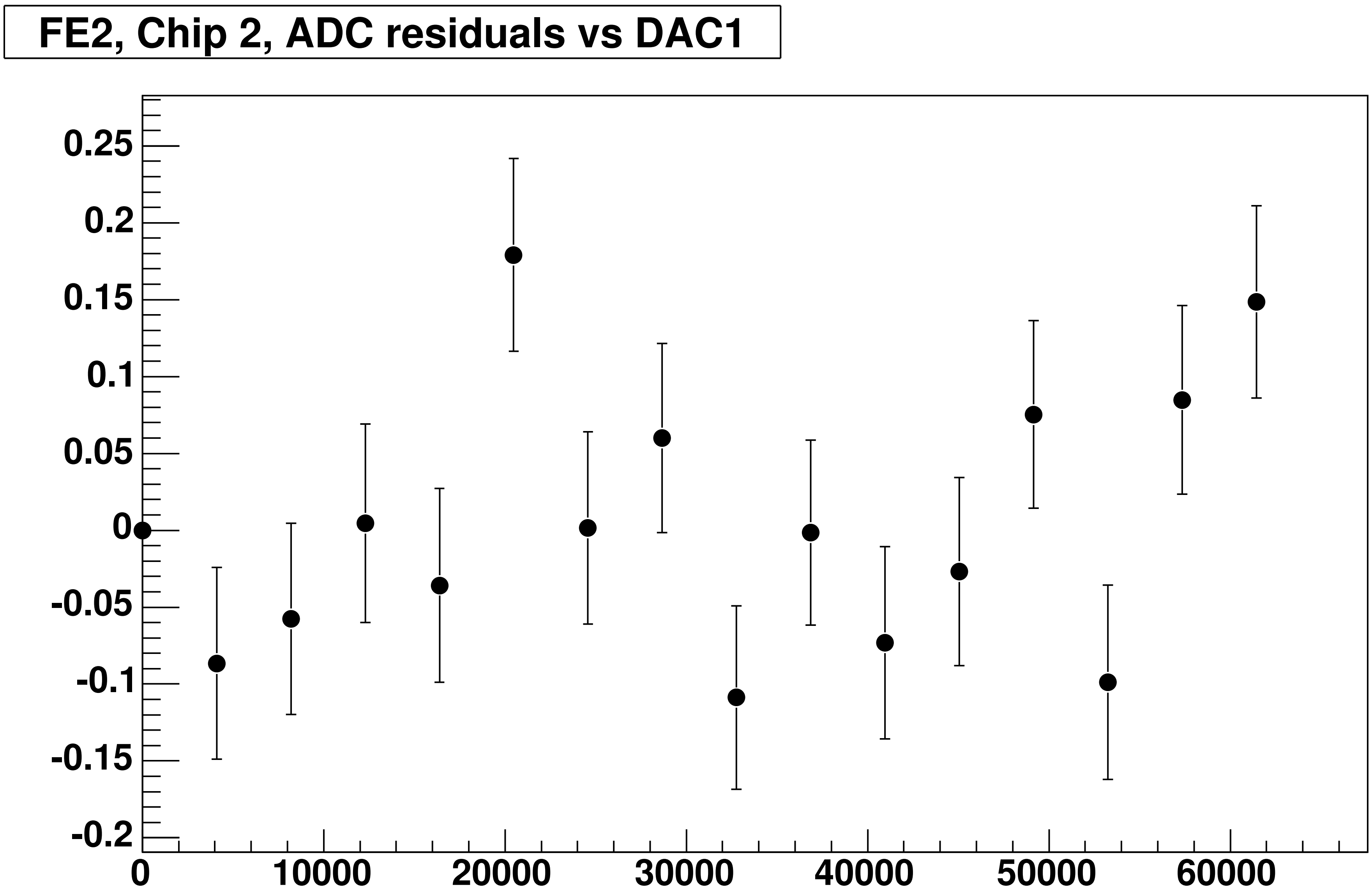


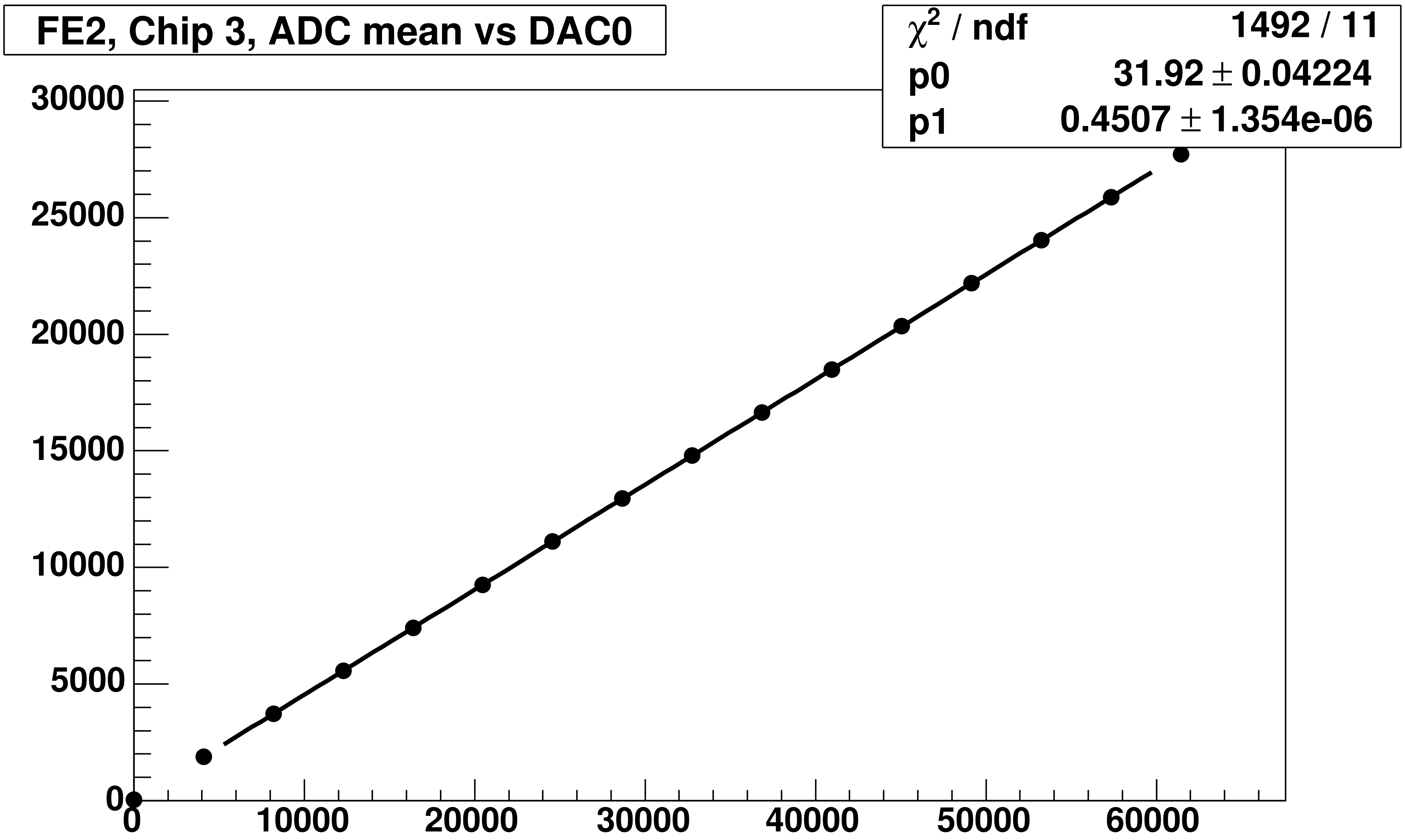
FE2, Chip 2, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE2, Chip 2, ADC residuals vs DAC0
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

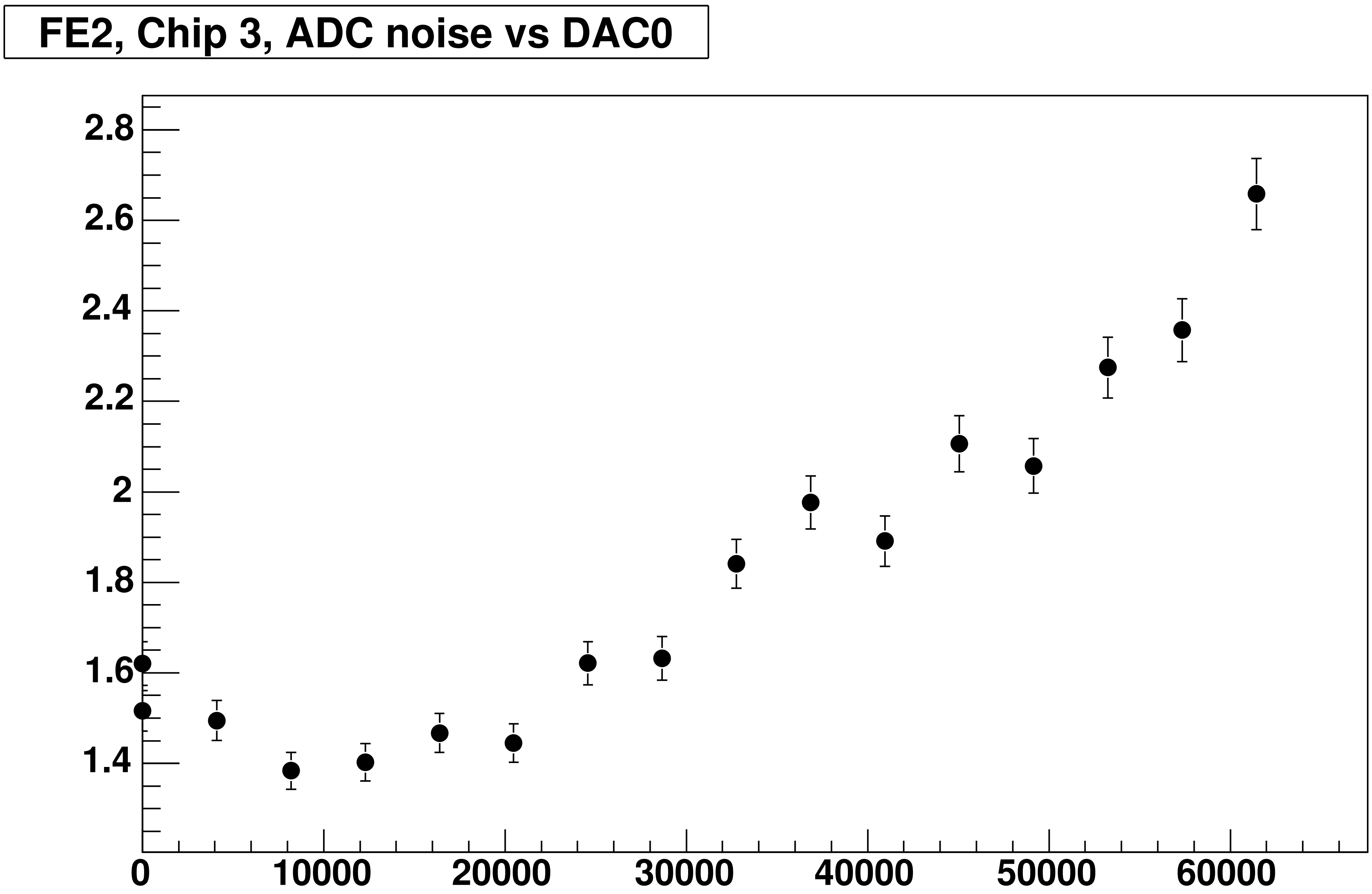

FE2, Chip 2, ADC mean vs DAC1
χ^2 / ndf 21.04 / 11
p0 35.97 ± 0.04107
p1 -1.588e-06 ± 1.13e-06
36.2
36.1
36
35.9
35.8
35.7
0
10000
20000
30000
40000
50000
60000


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

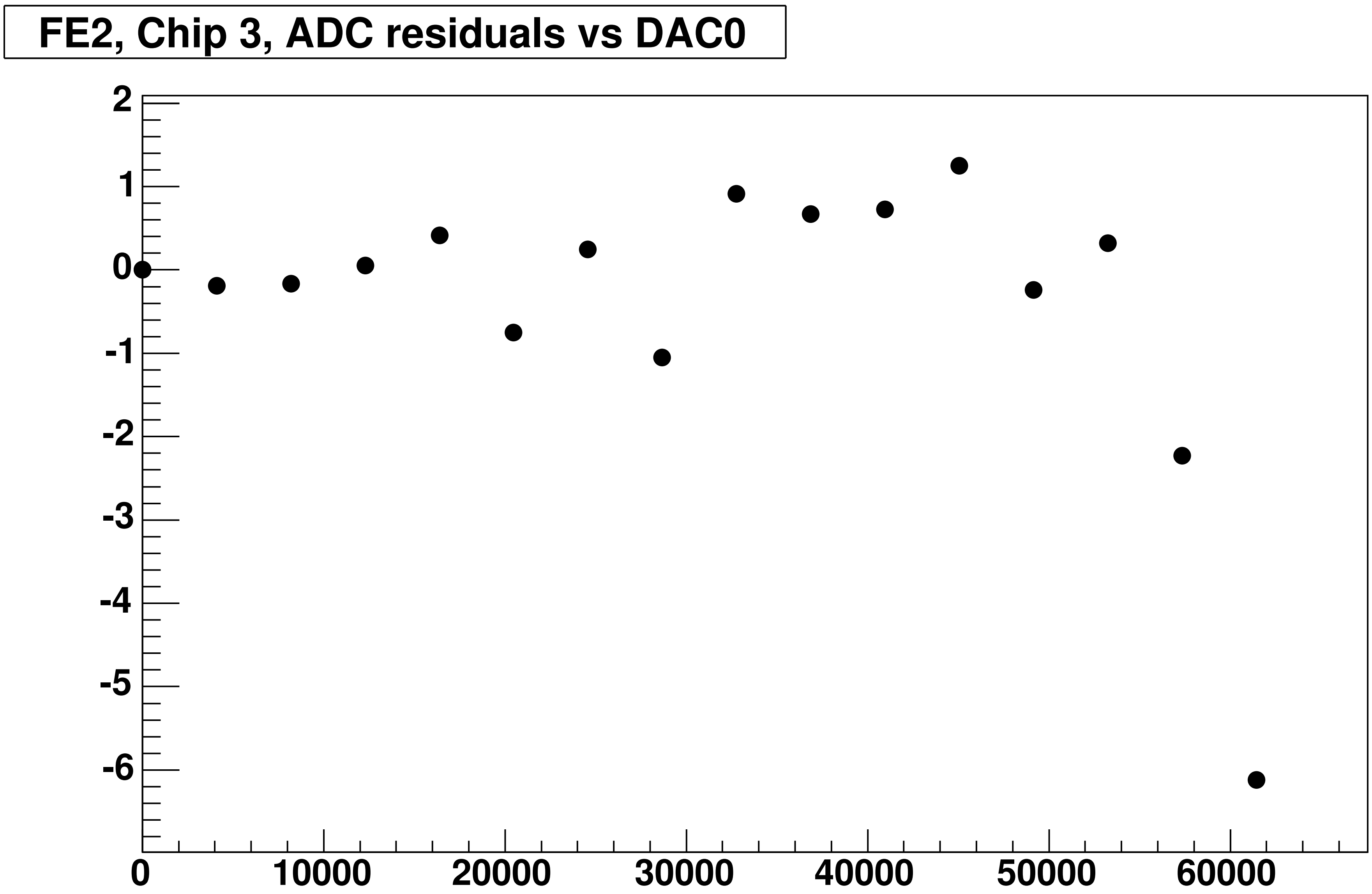

FE2, Chip 2, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

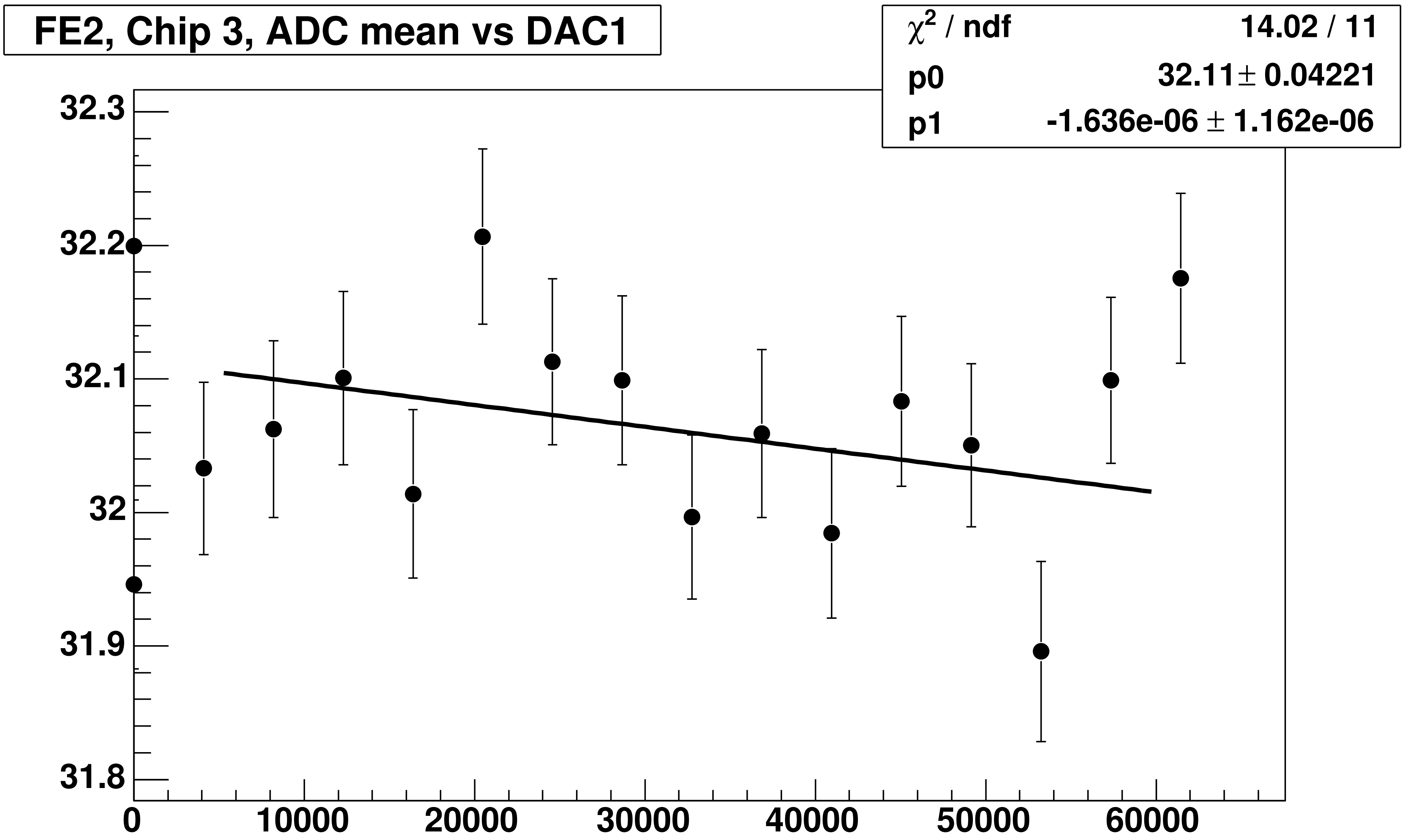


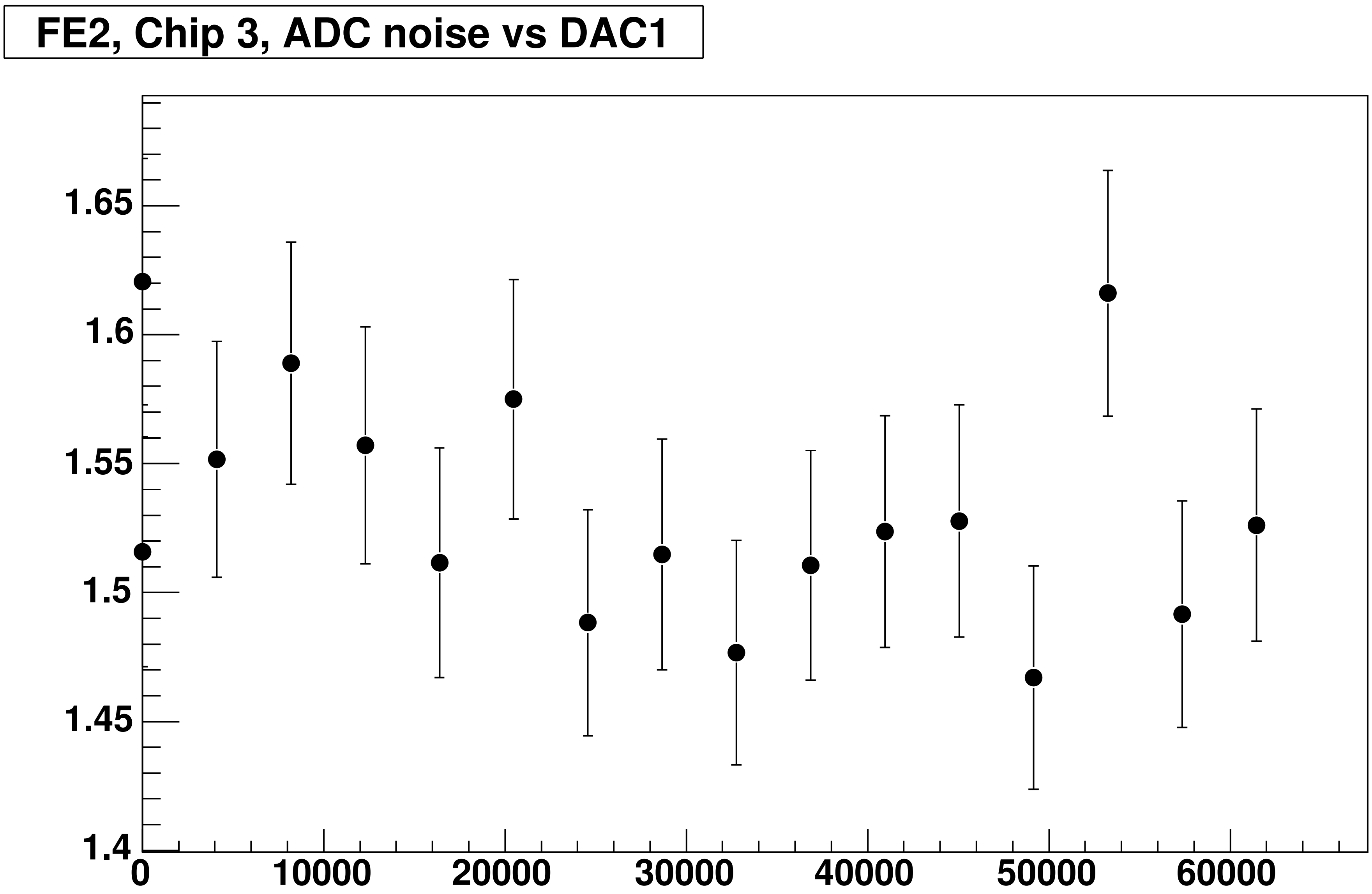
FE2, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1492 / 11
p0 31.92 ± 0.04224
p1 0.4507 ± 1.354e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

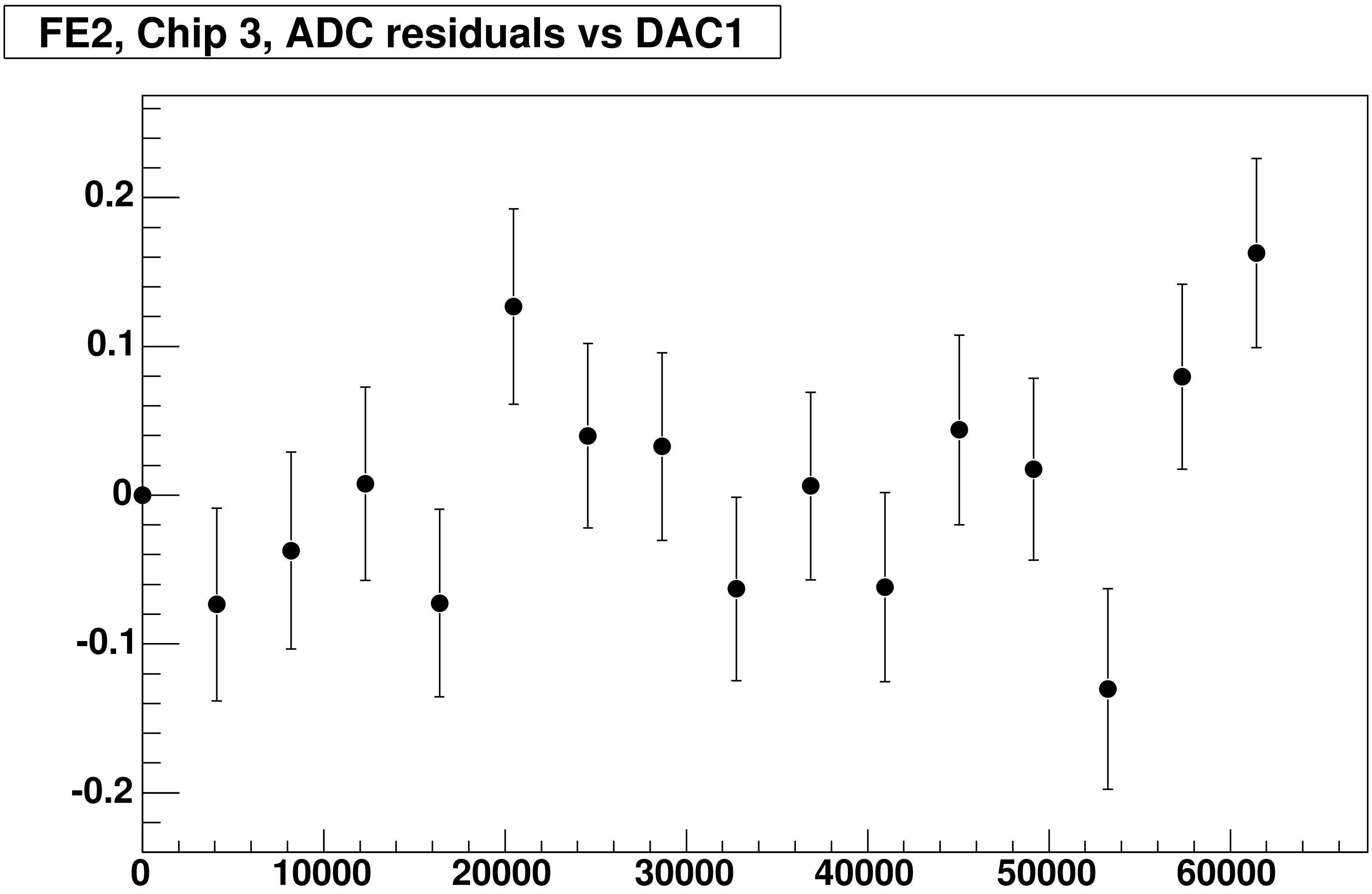


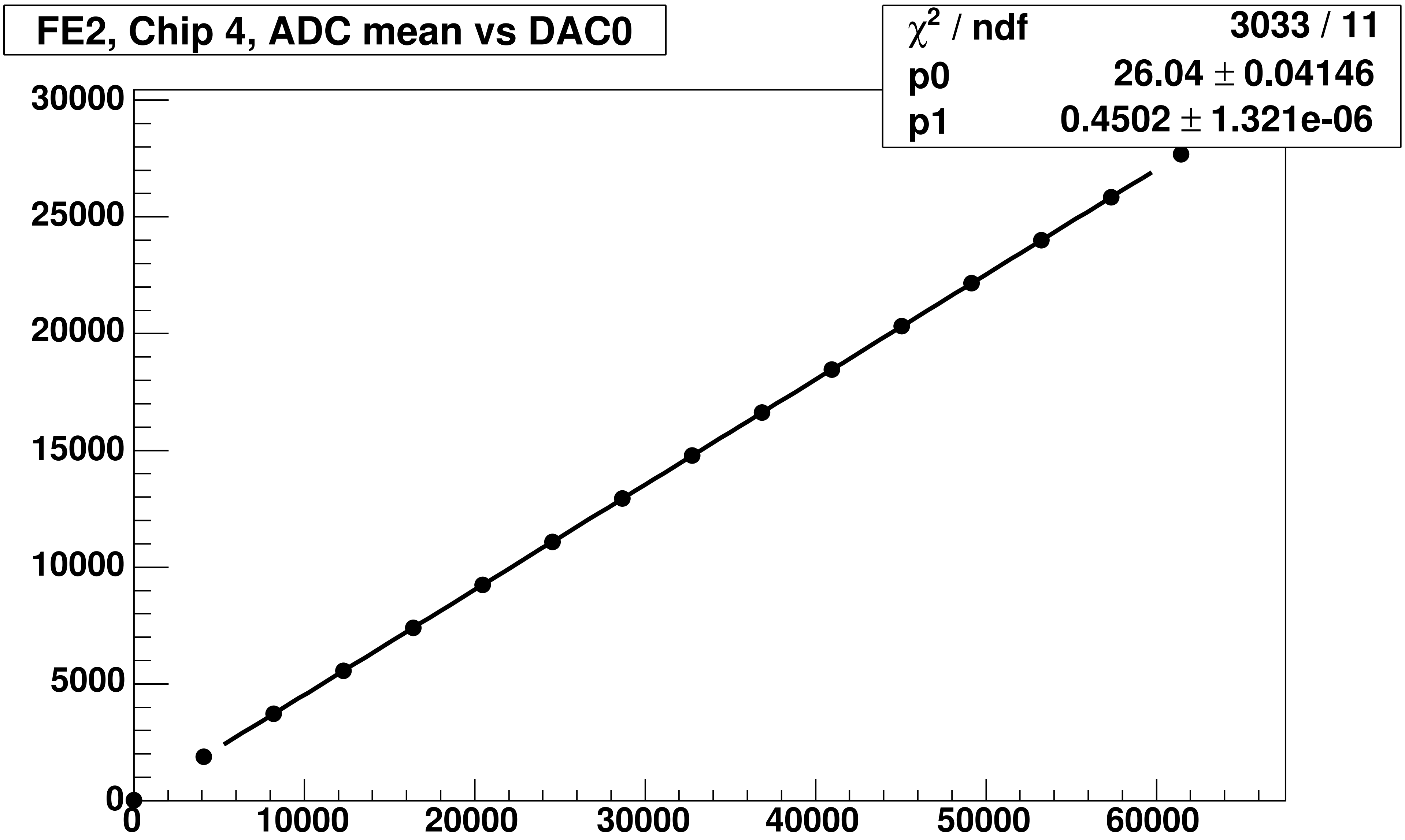
FE2, Chip 3, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE2, Chip 3, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

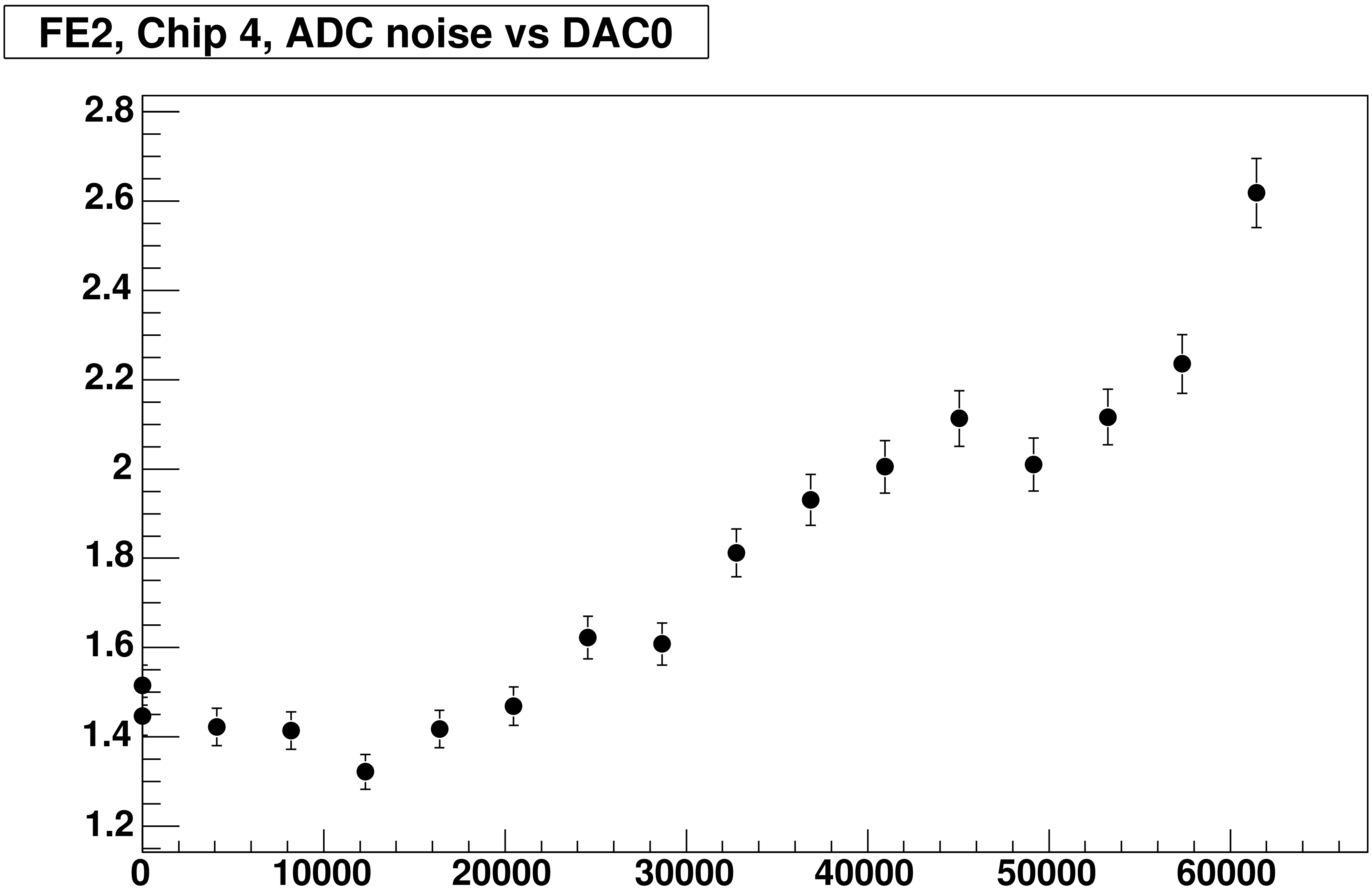

FE2, Chip 3, ADC mean vs DAC1
χ^2 / ndf 14.02 / 11
p0 32.11 ± 0.04221
p1 -1.636e-06 ± 1.162e-06
32.3
32.2
32.1
32
31.9
31.8
0
10000
20000
30000
40000
50000
60000


FE2, 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

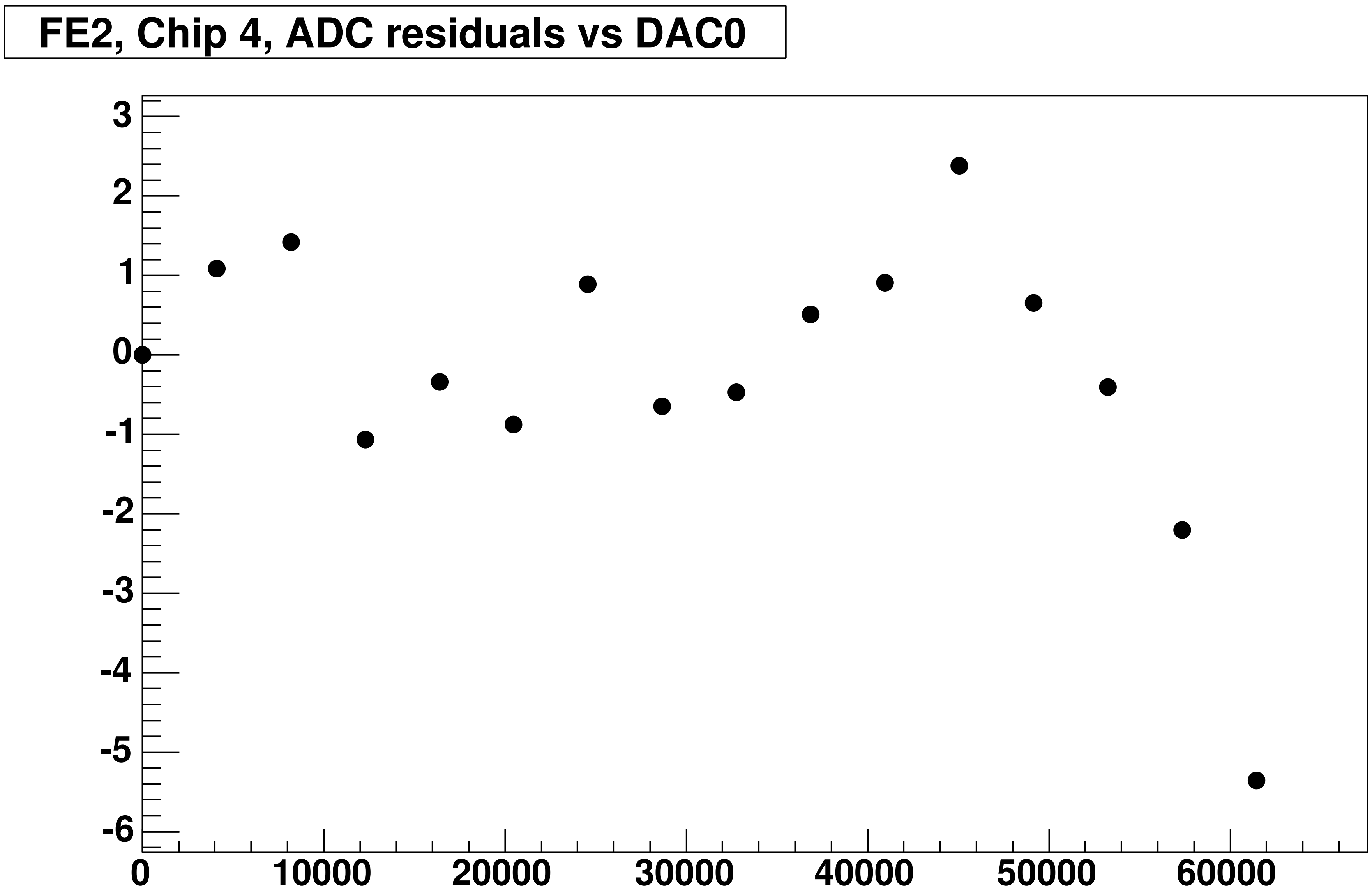

FE2, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

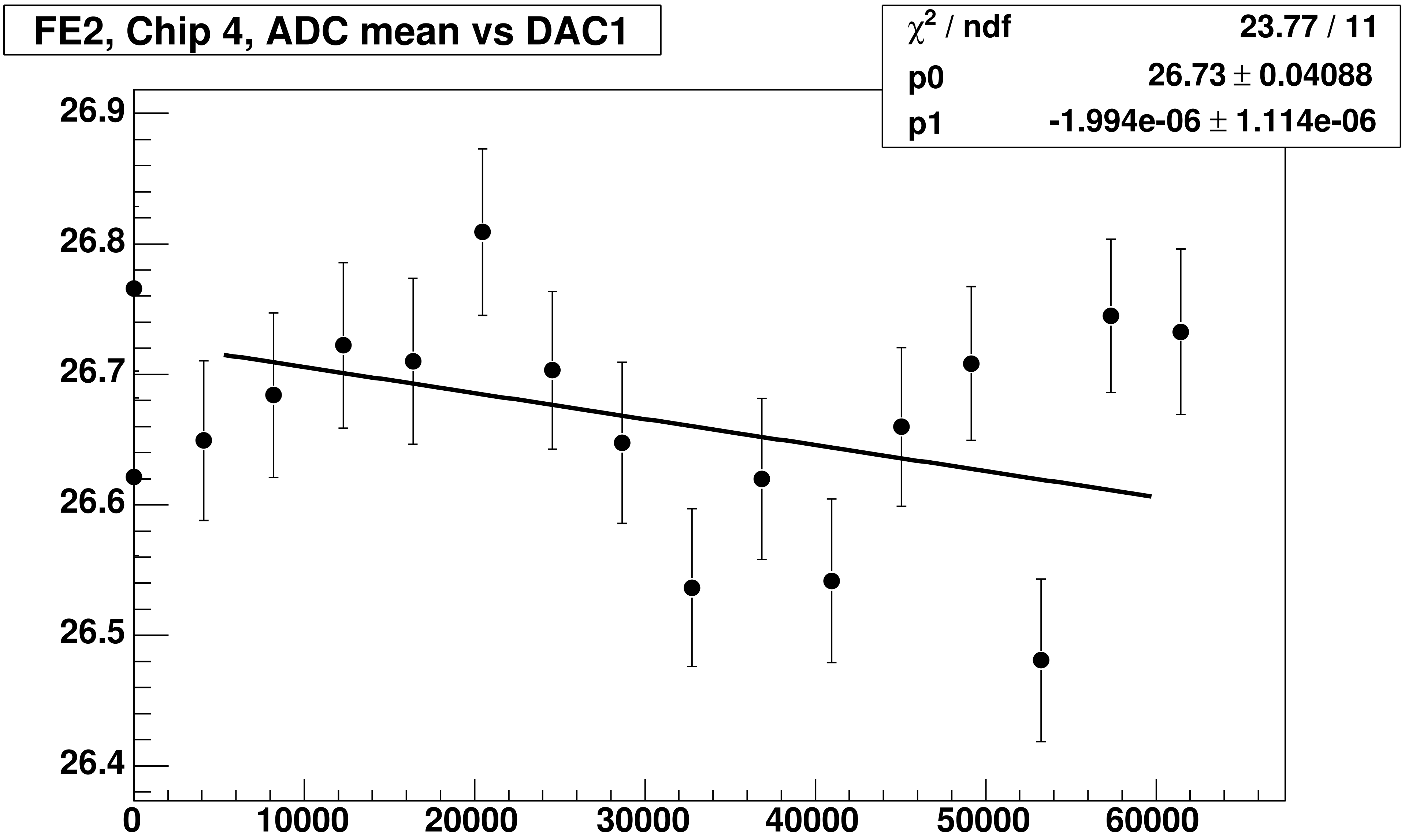


FE2, Chip 4, ADC mean vs DAC0
χ^2 / ndf 3033 / 11
p0 26.04 ± 0.04146
p1 0.4502 ± 1.321e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

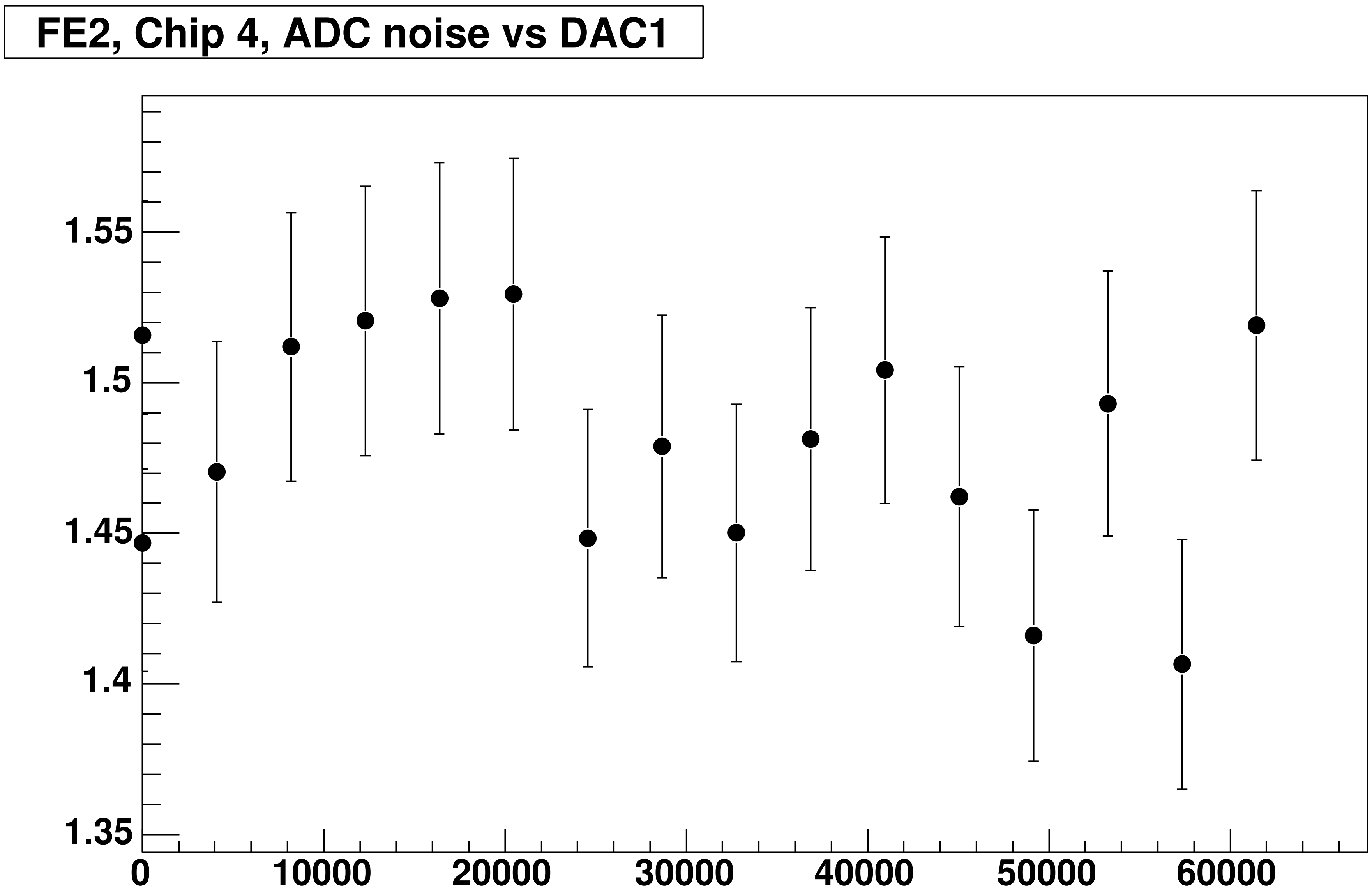


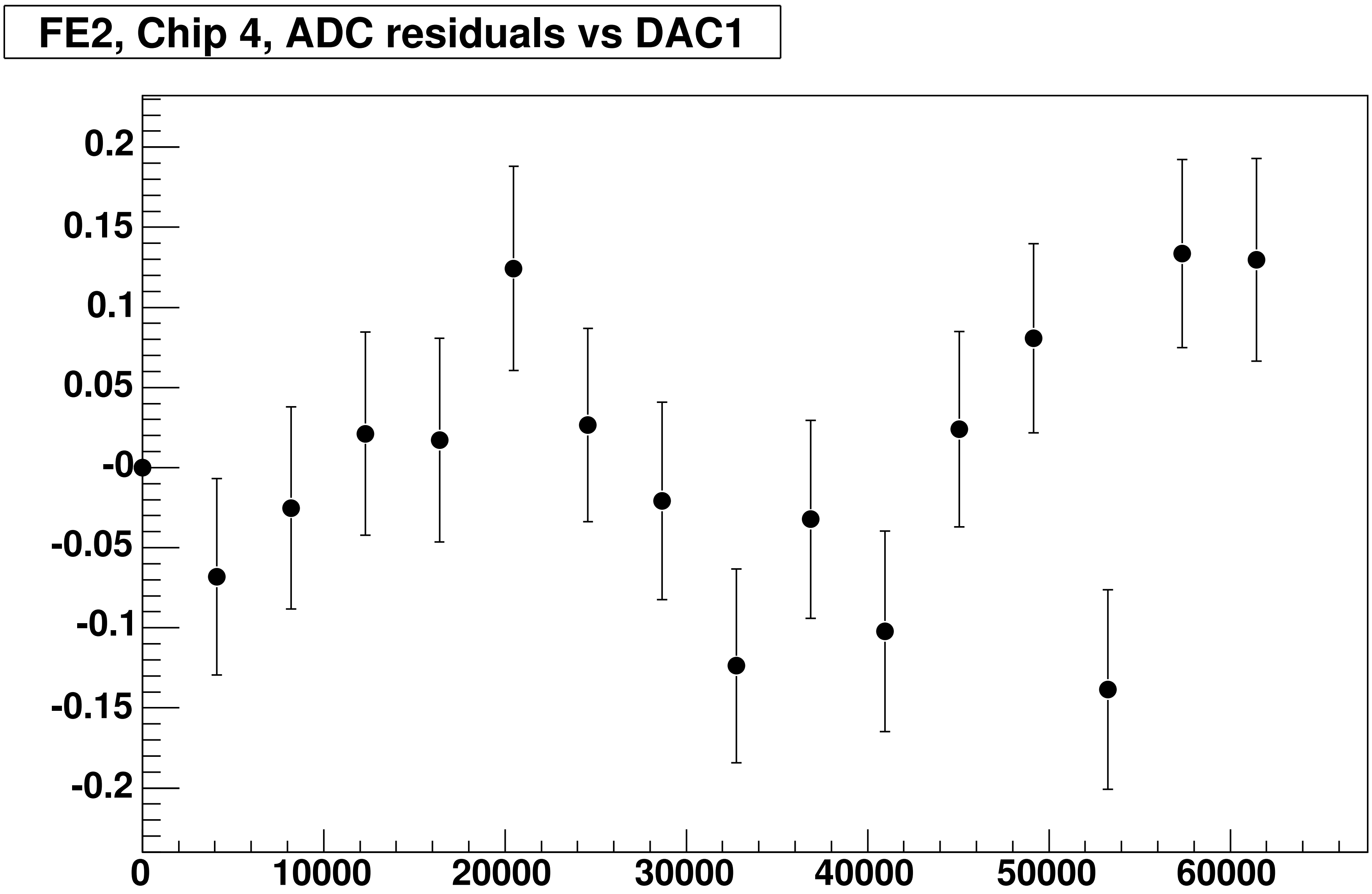
FE2, Chip 4, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

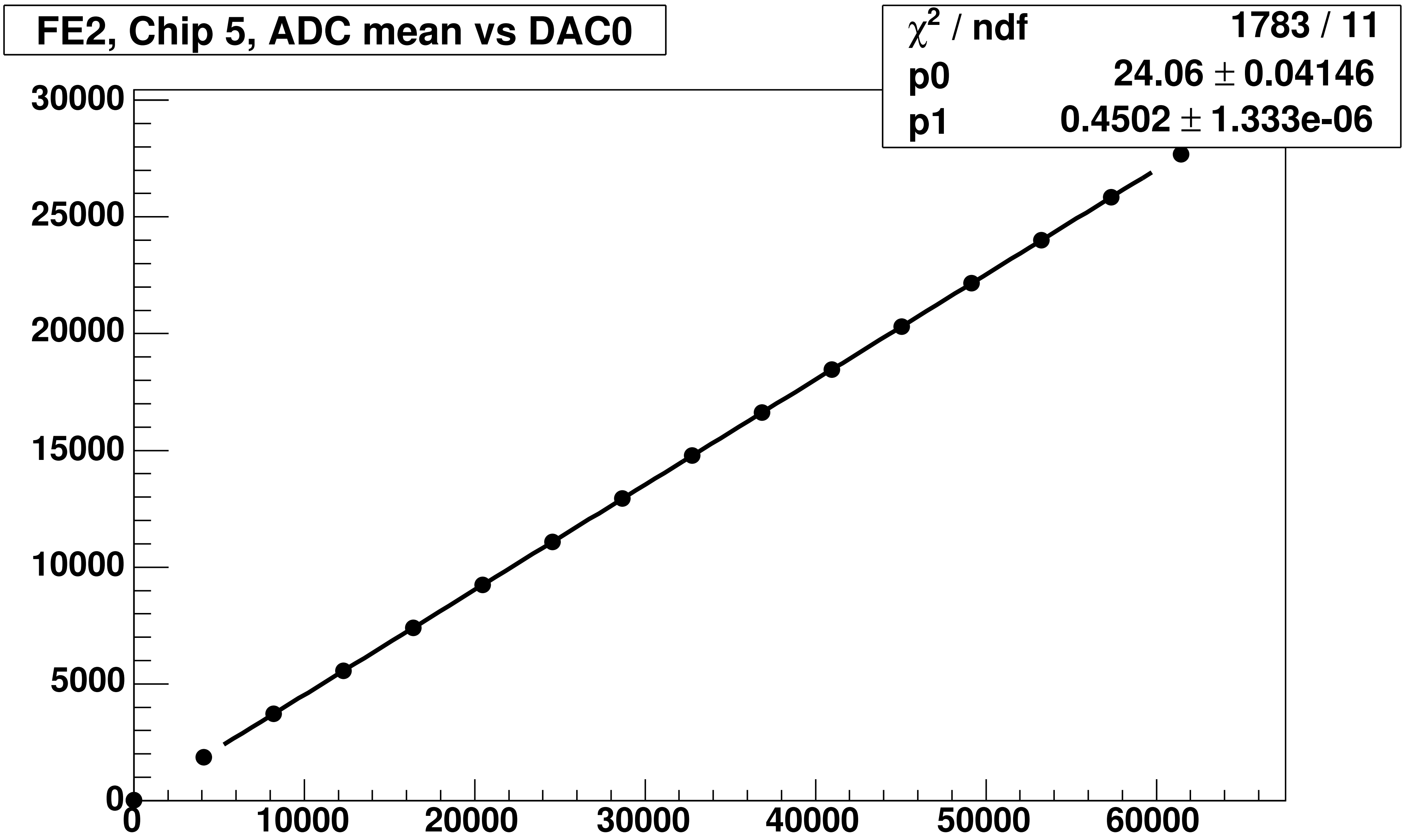

FE2, Chip 4, ADC residuals vs DAC0
3
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



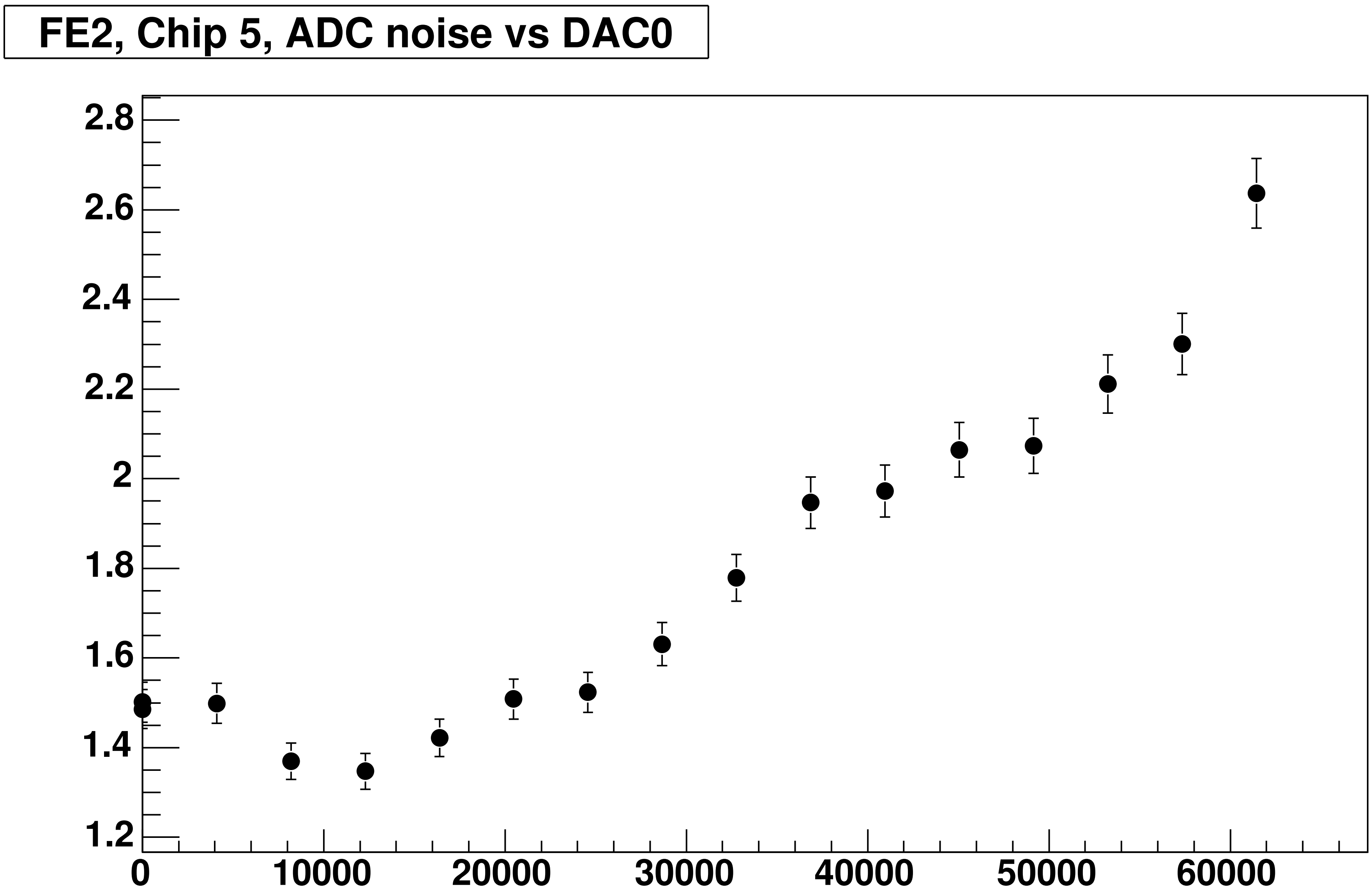
FE2, Chip 4, ADC mean vs DAC1
χ² / ndf 23.77 / 11
p0 26.73 ± 0.04088
p1 -1.994e-06 ± 1.114e-06
26.9
26.8
26.7
26.6
26.5
26.4
0
10000
20000
30000
40000
50000
60000

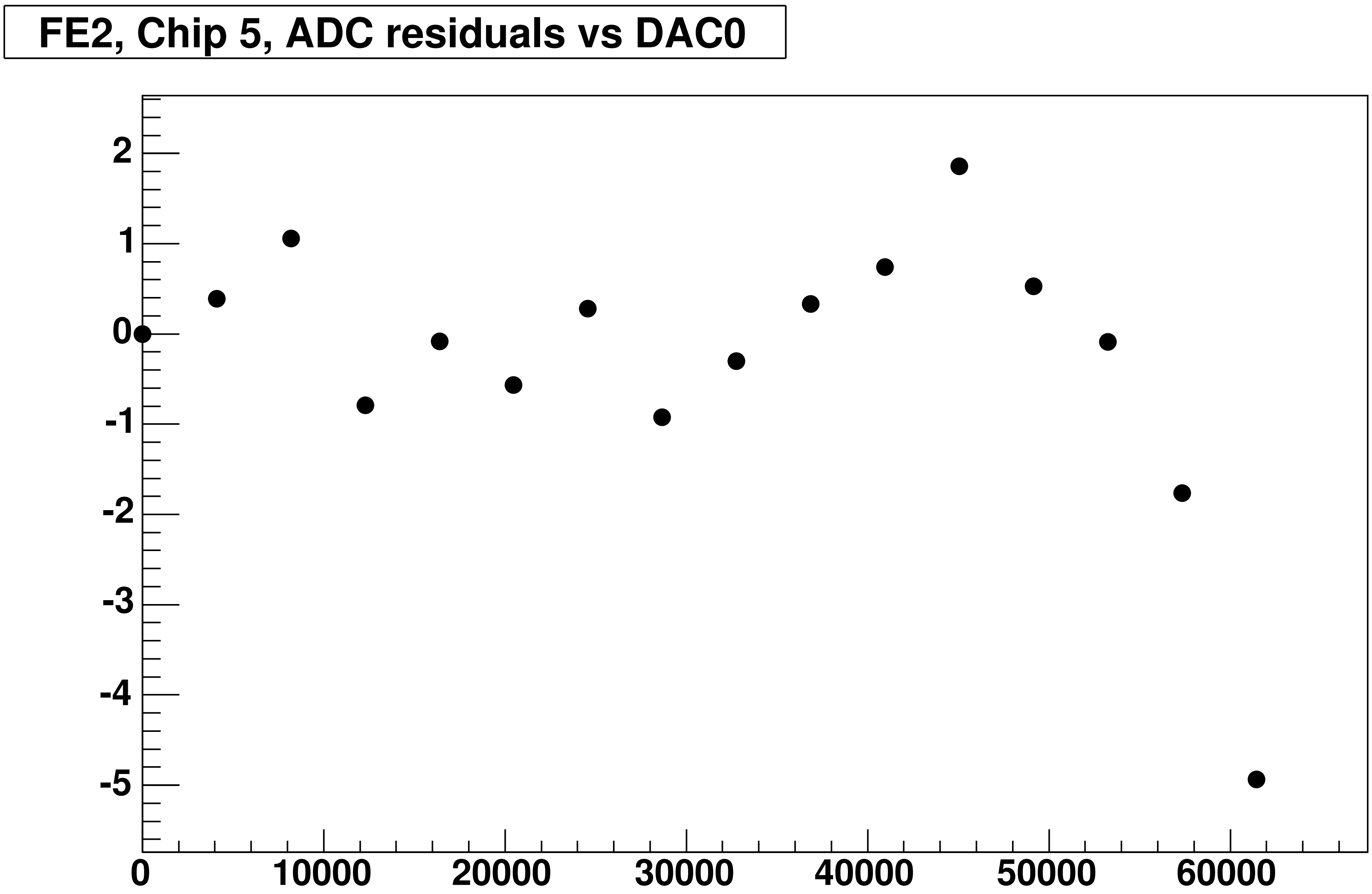

FE2, Chip 4, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE2, Chip 4, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

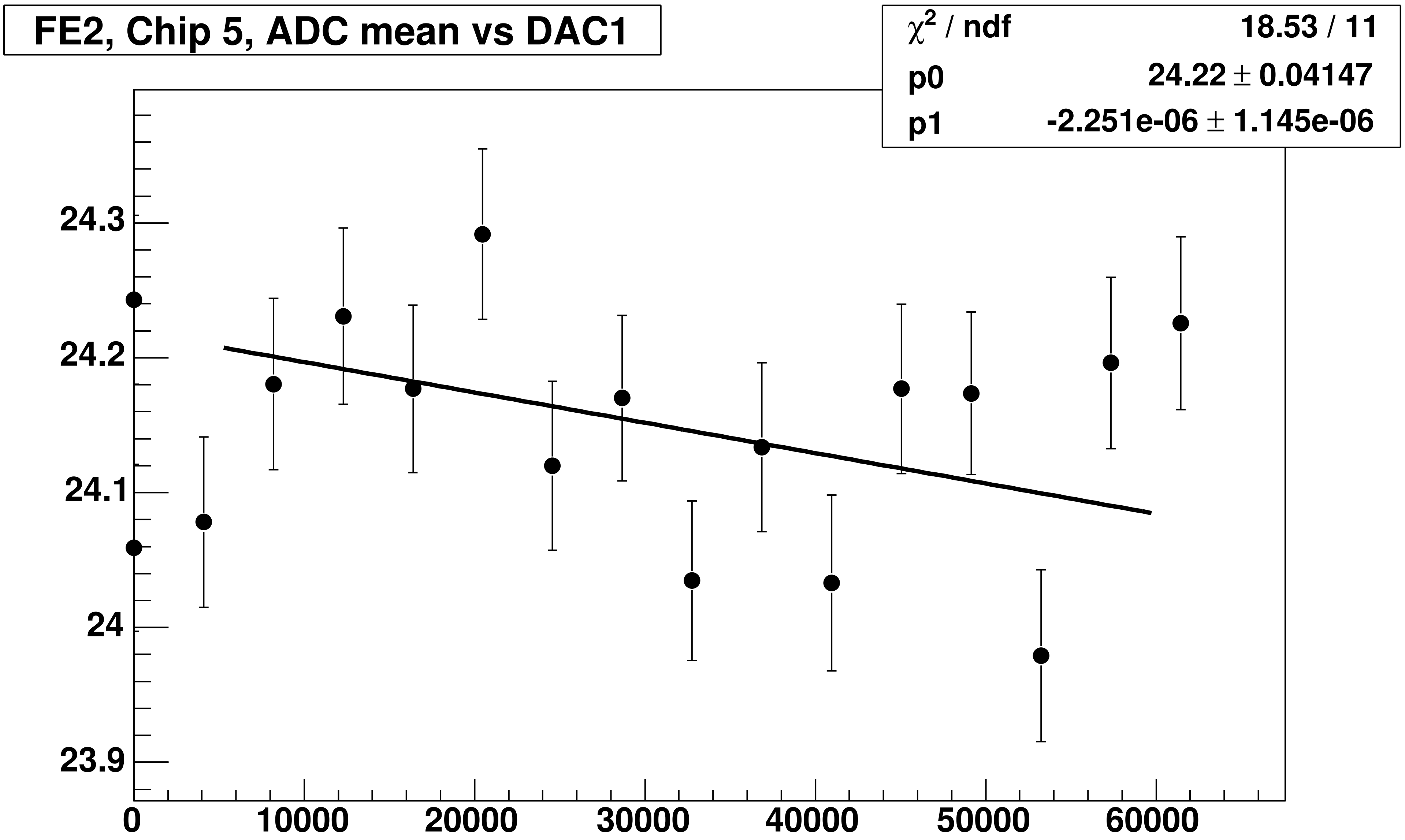


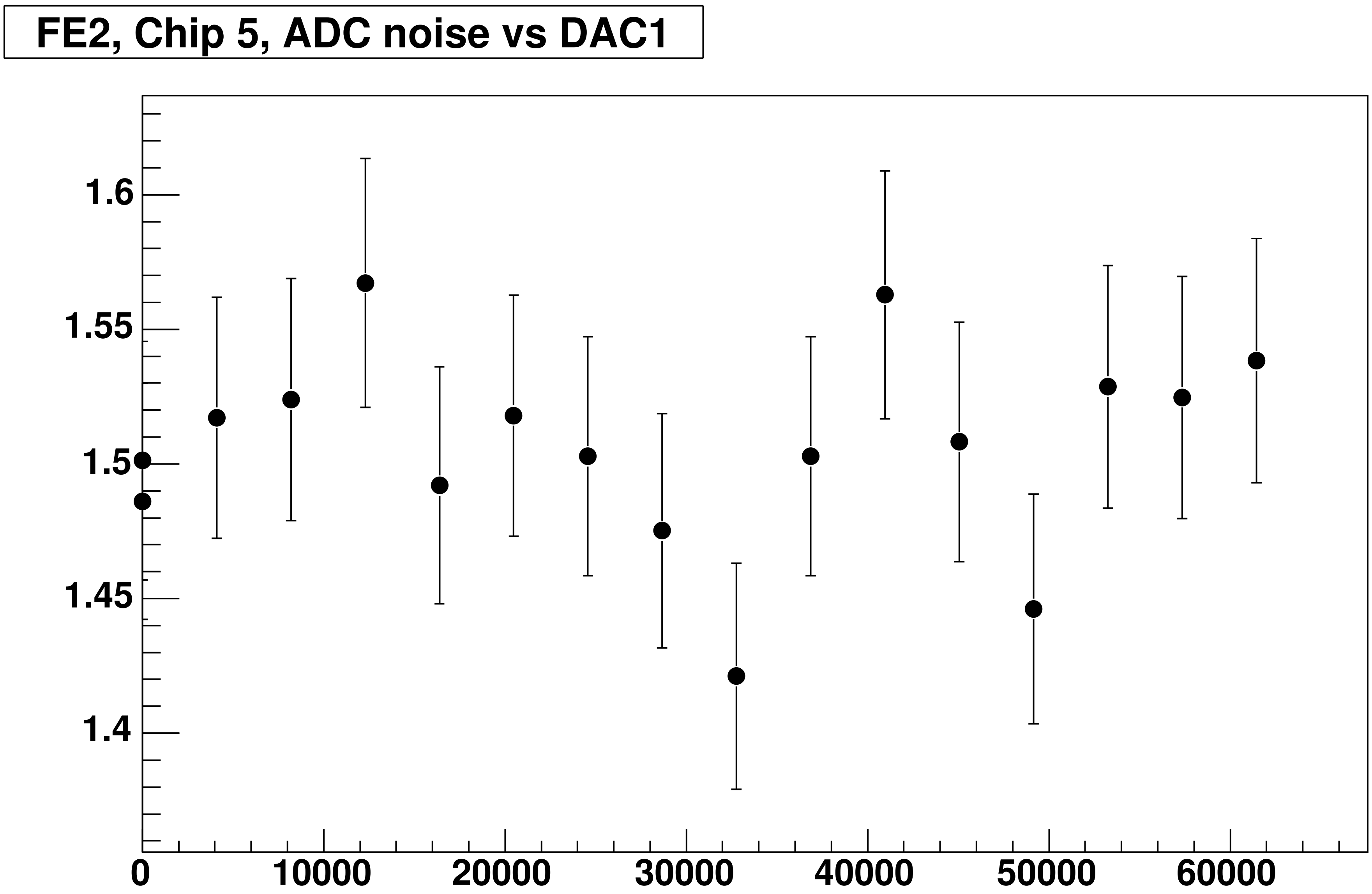
FE2, Chip 5, ADC mean vs DAC0
χ2 / ndf 1783 / 11
p0 24.06 ± 0.04146
p1 0.4502 ± 1.333e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

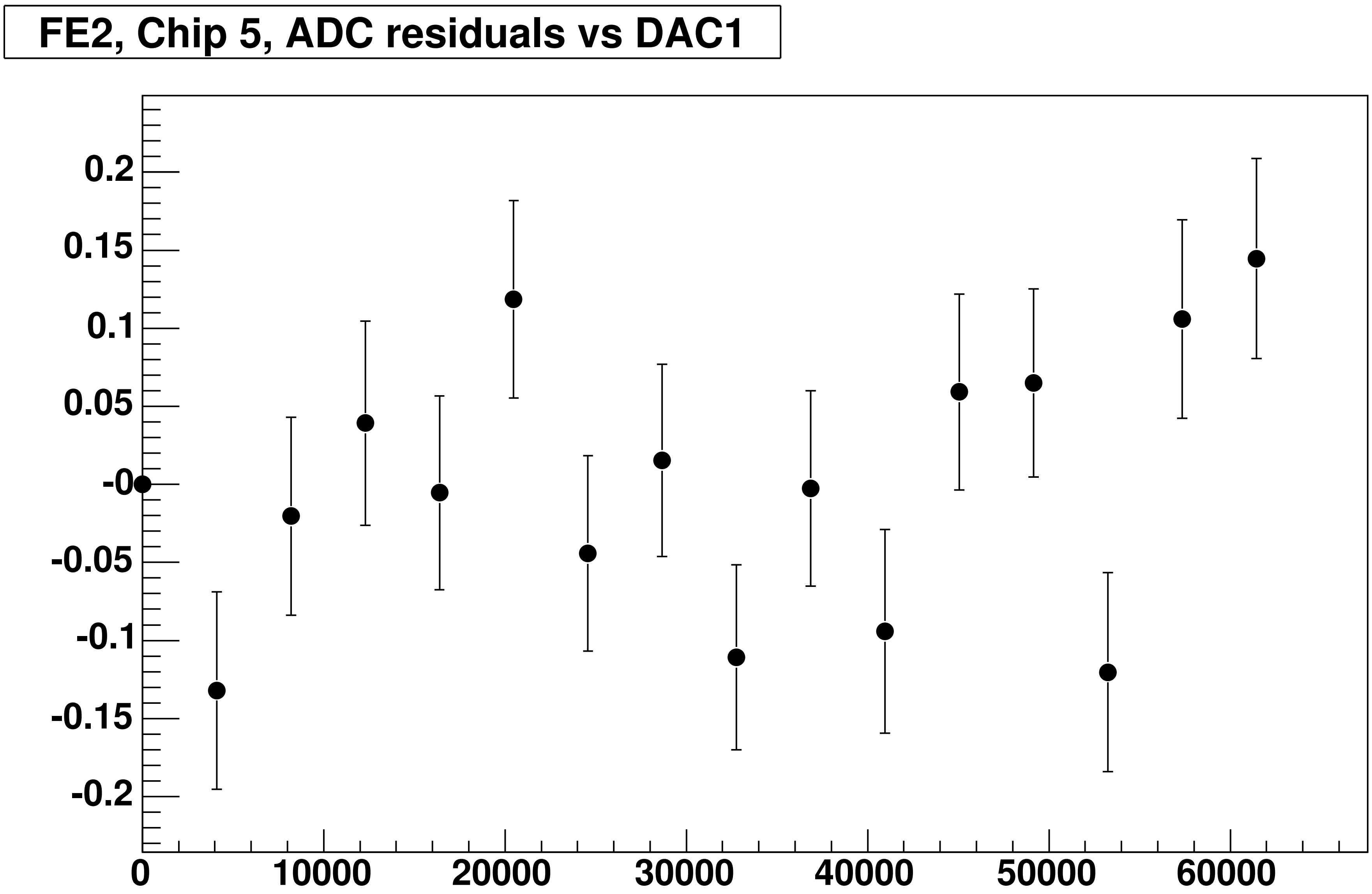

FE2, Chip 5, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

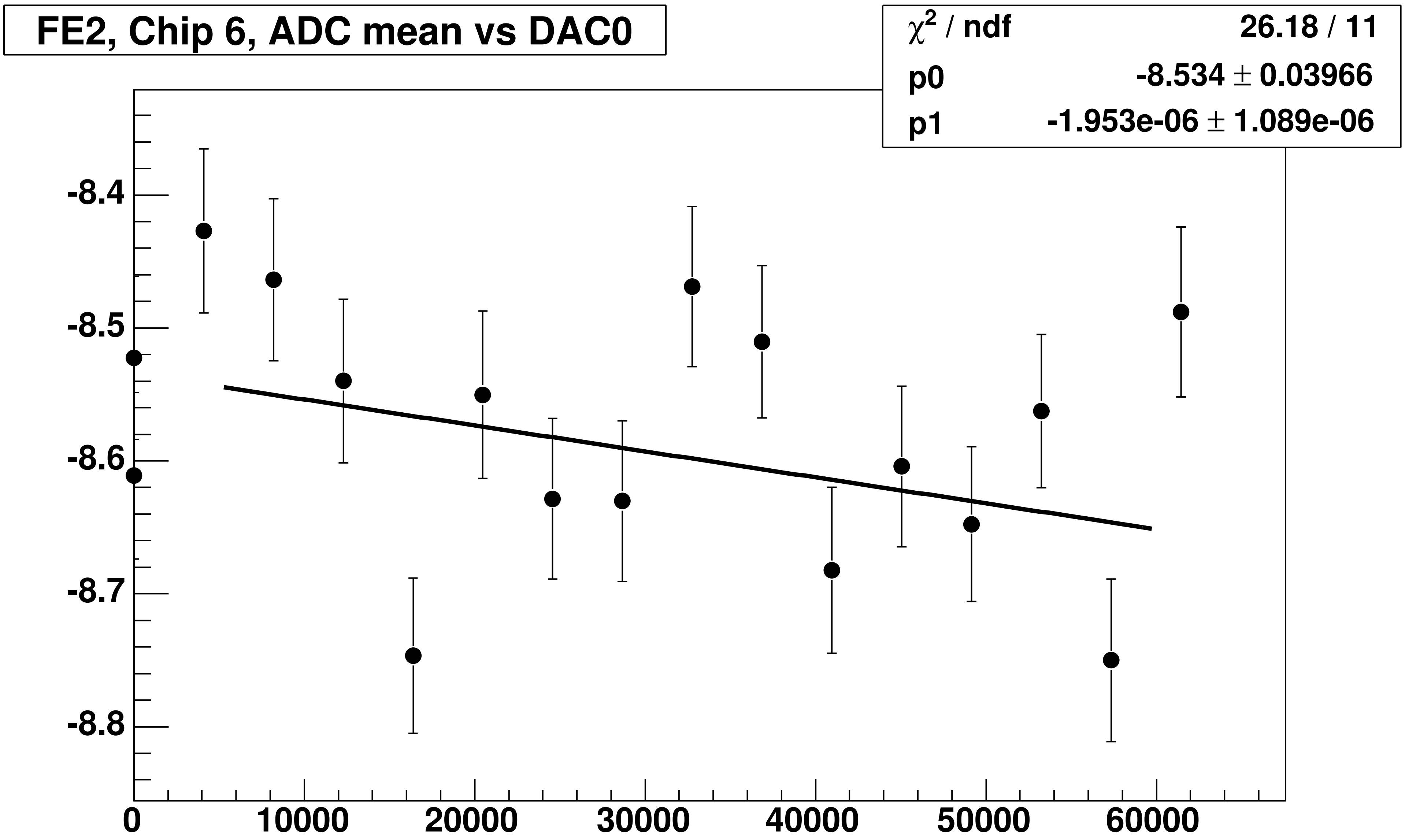


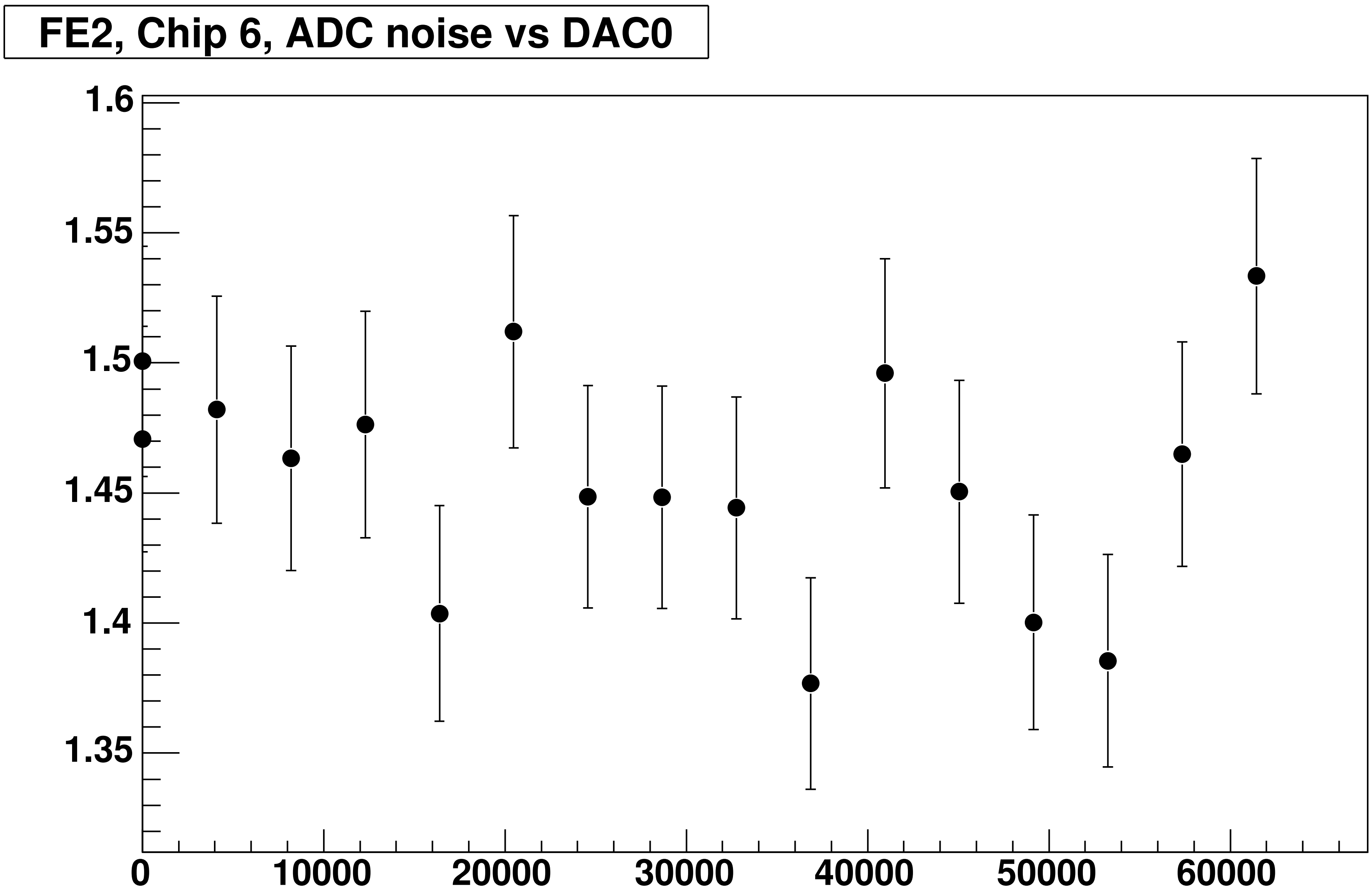
FE2, Chip 5, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

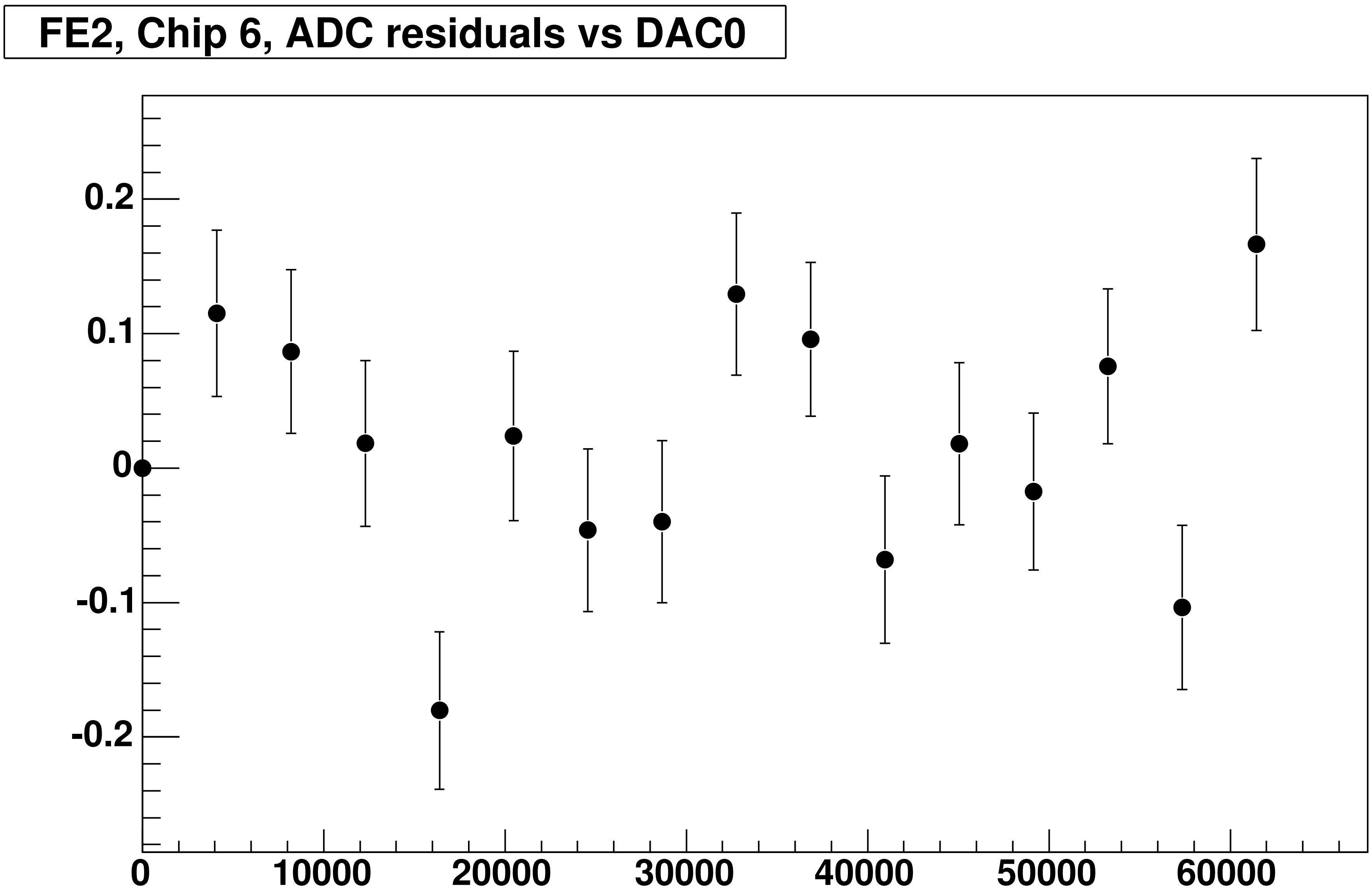

FE2, Chip 5, ADC mean vs DAC1
χ^2 / ndf 18.53 / 11
p0 24.22 ± 0.04147
p1 -2.251e-06 ± 1.145e-06
24.3
24.2
24.1
24
23.9
0
10000
20000
30000
40000
50000
60000


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

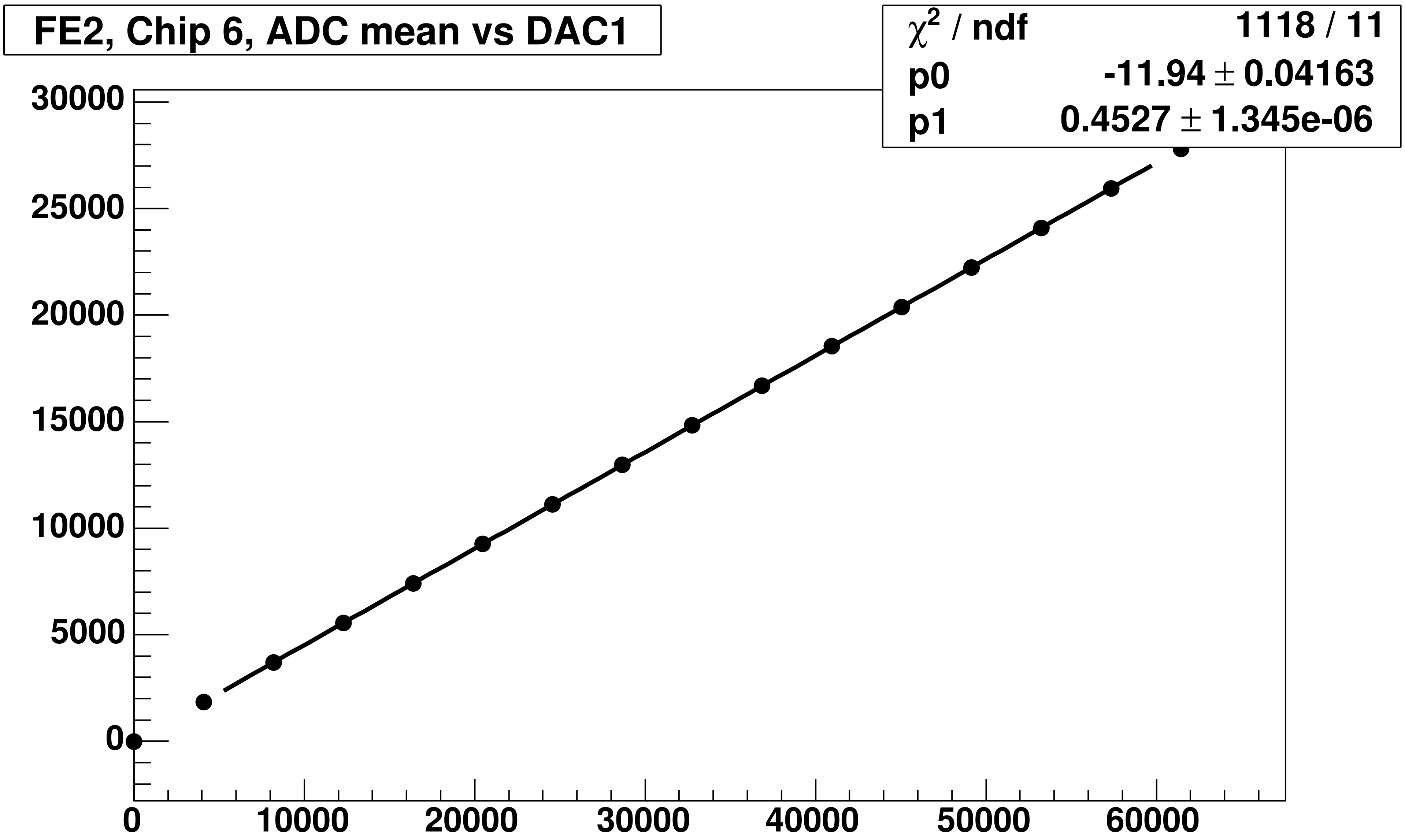

FE2, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

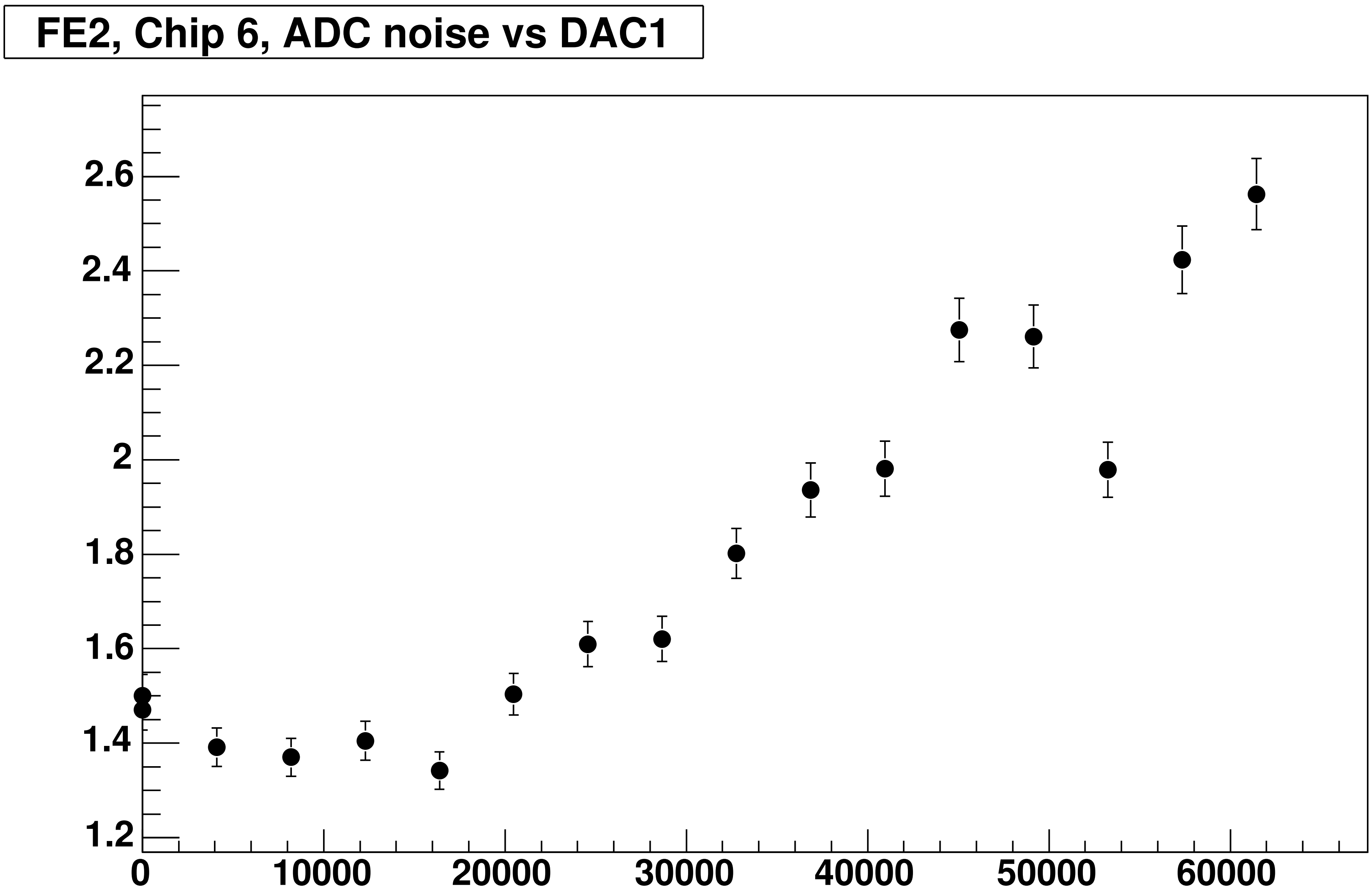

FE2, Chip 6, ADC mean vs DAC0
χ2 / ndf 26.18 / 11
p0 -8.534 ± 0.03966
p1 -1.953e-06 ± 1.089e-06
-8.4
-8.5
-8.6
-8.7
-8.8
0
10000
20000
30000
40000
50000
60000

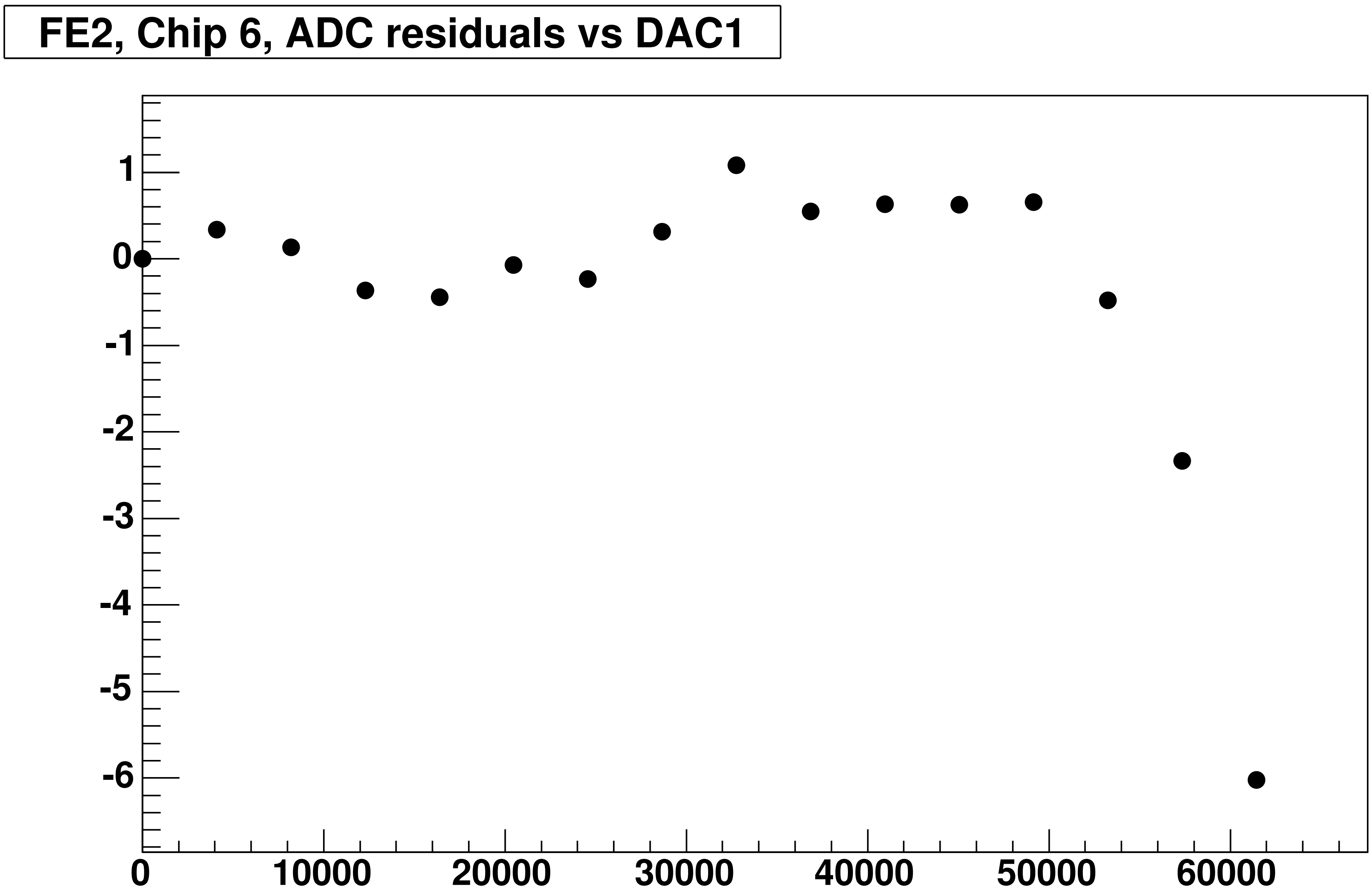

FE2, Chip 6, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

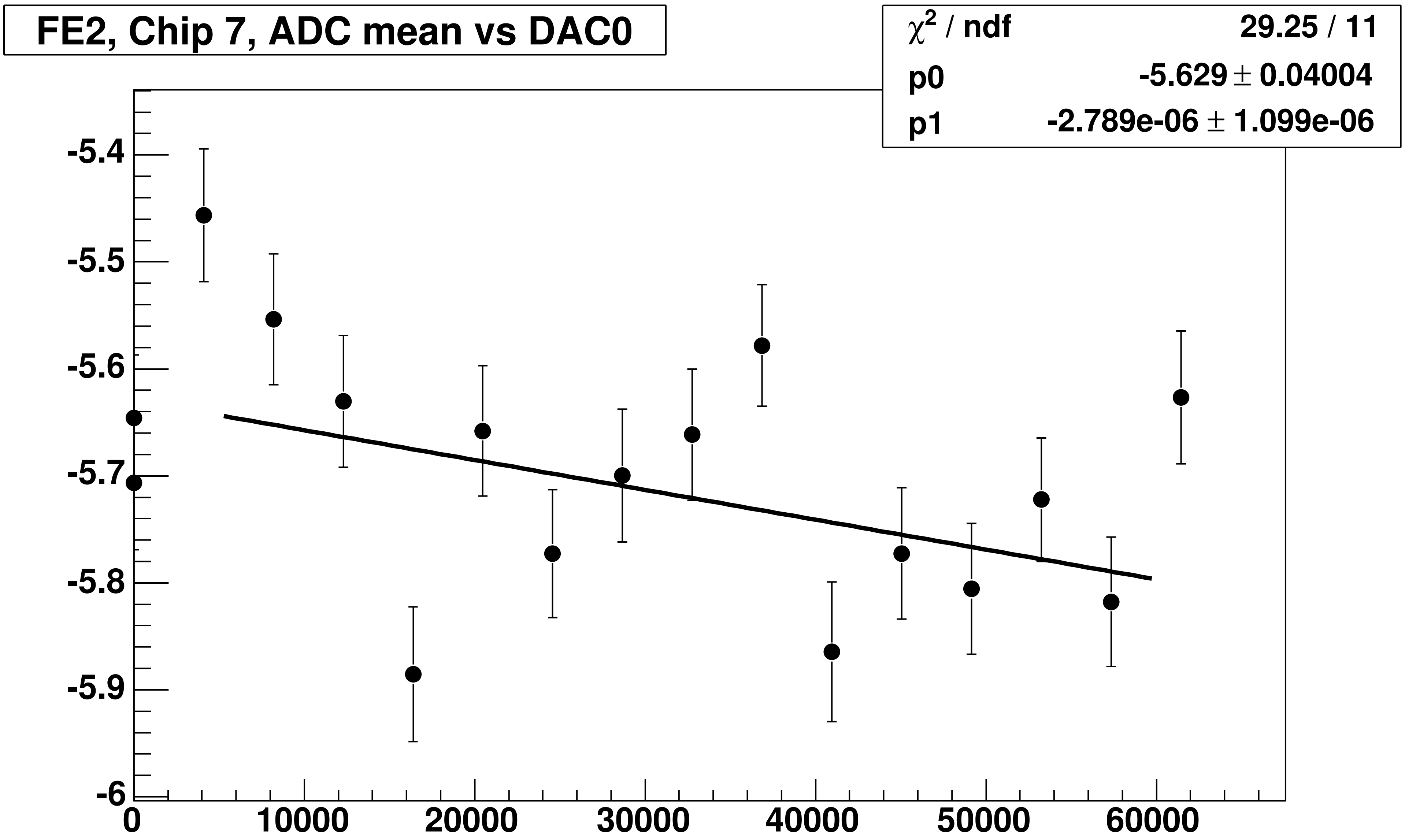


FE2, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

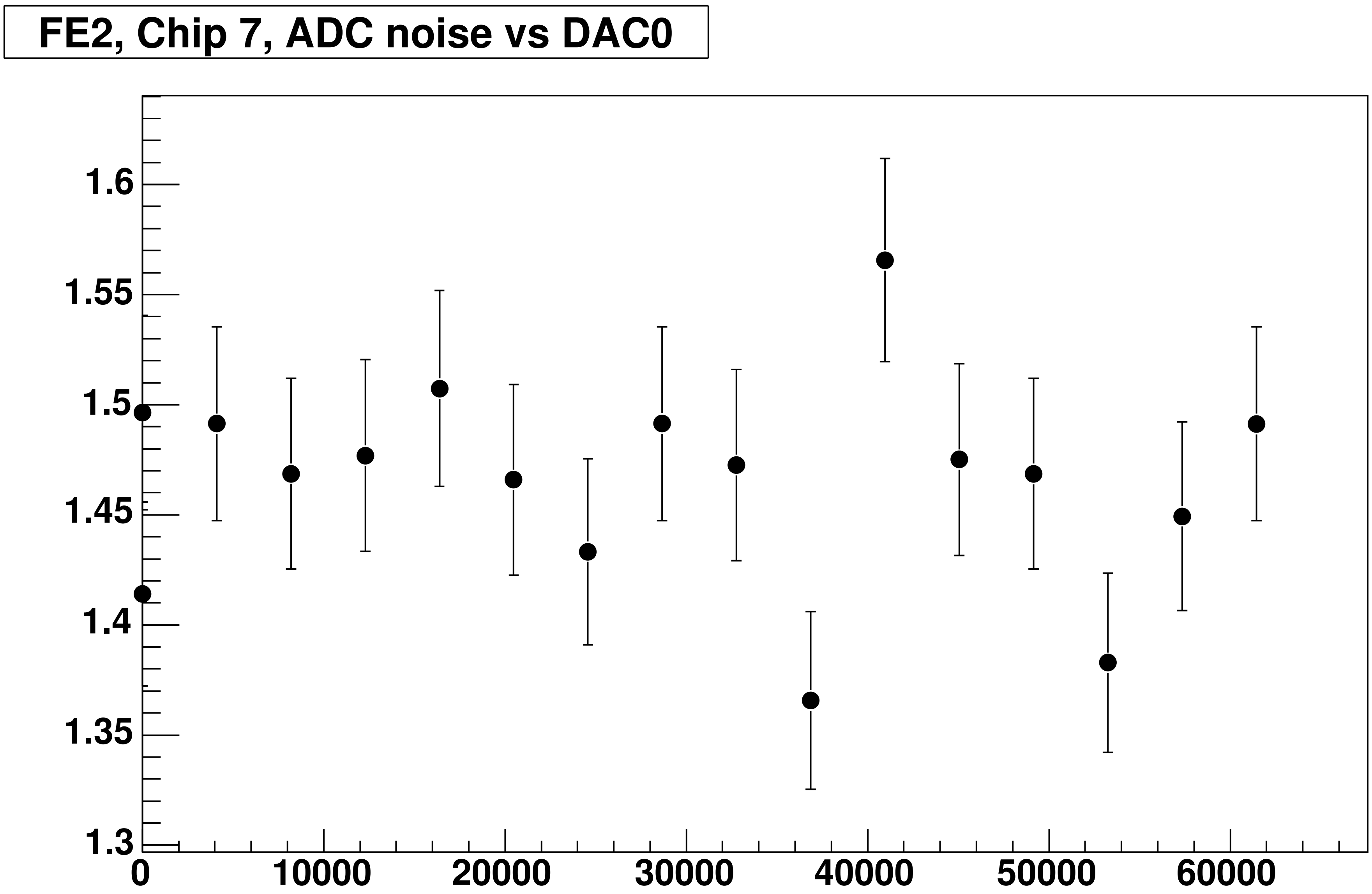

FE2, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1118 / 11
p0 -11.94 ± 0.04163
p1 0.4527 ± 1.345e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

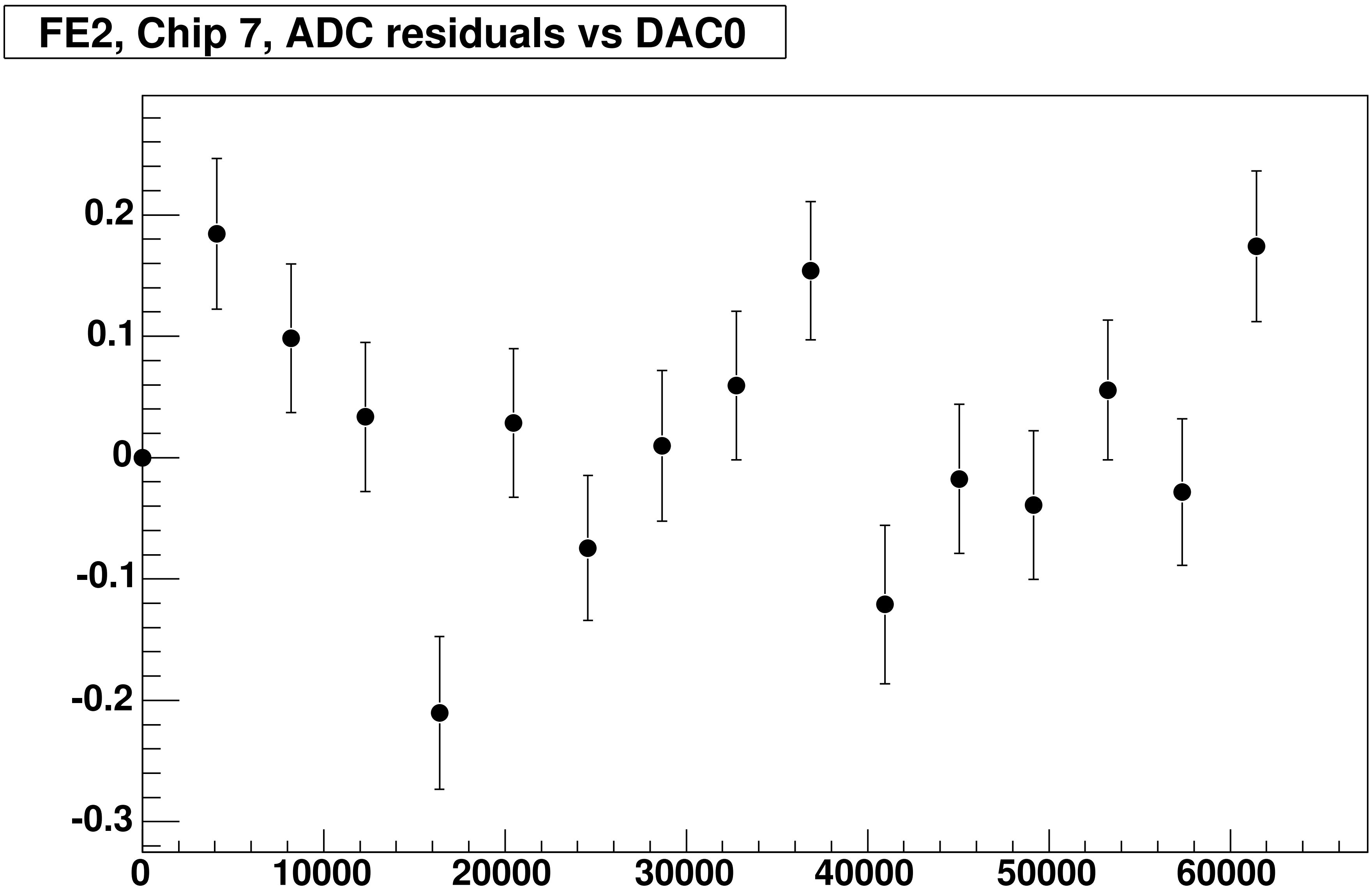

FE2, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

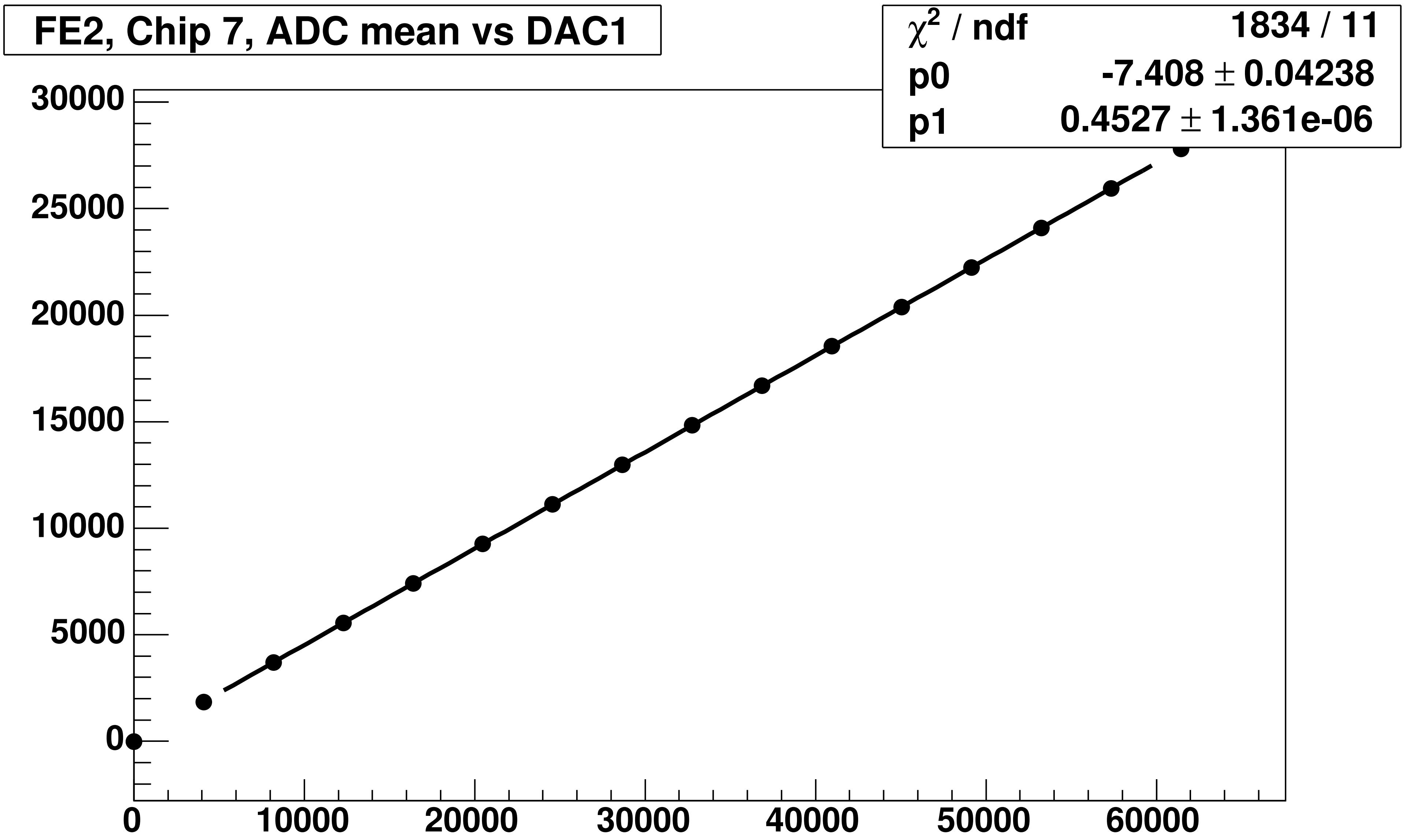


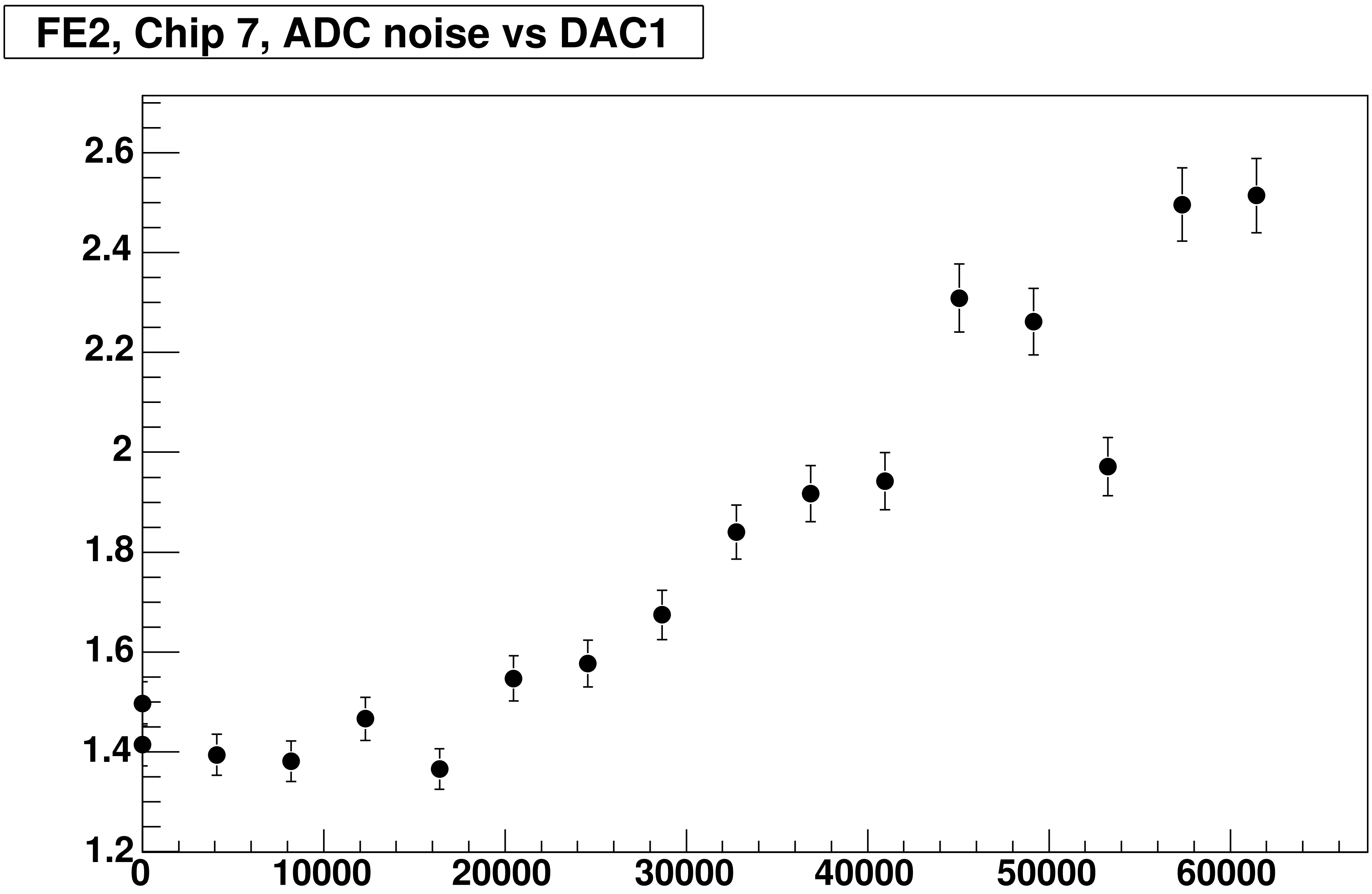
FE2, Chip 7, ADC mean vs DAC0
χ² / ndf 29.25 / 11
p0 -5.629 ± 0.04004
p1 -2.789e-06 ± 1.099e-06
-5.4
-5.5
-5.6
-5.7
-5.8
-5.9
-6
0
10000
20000
30000
40000
50000
60000

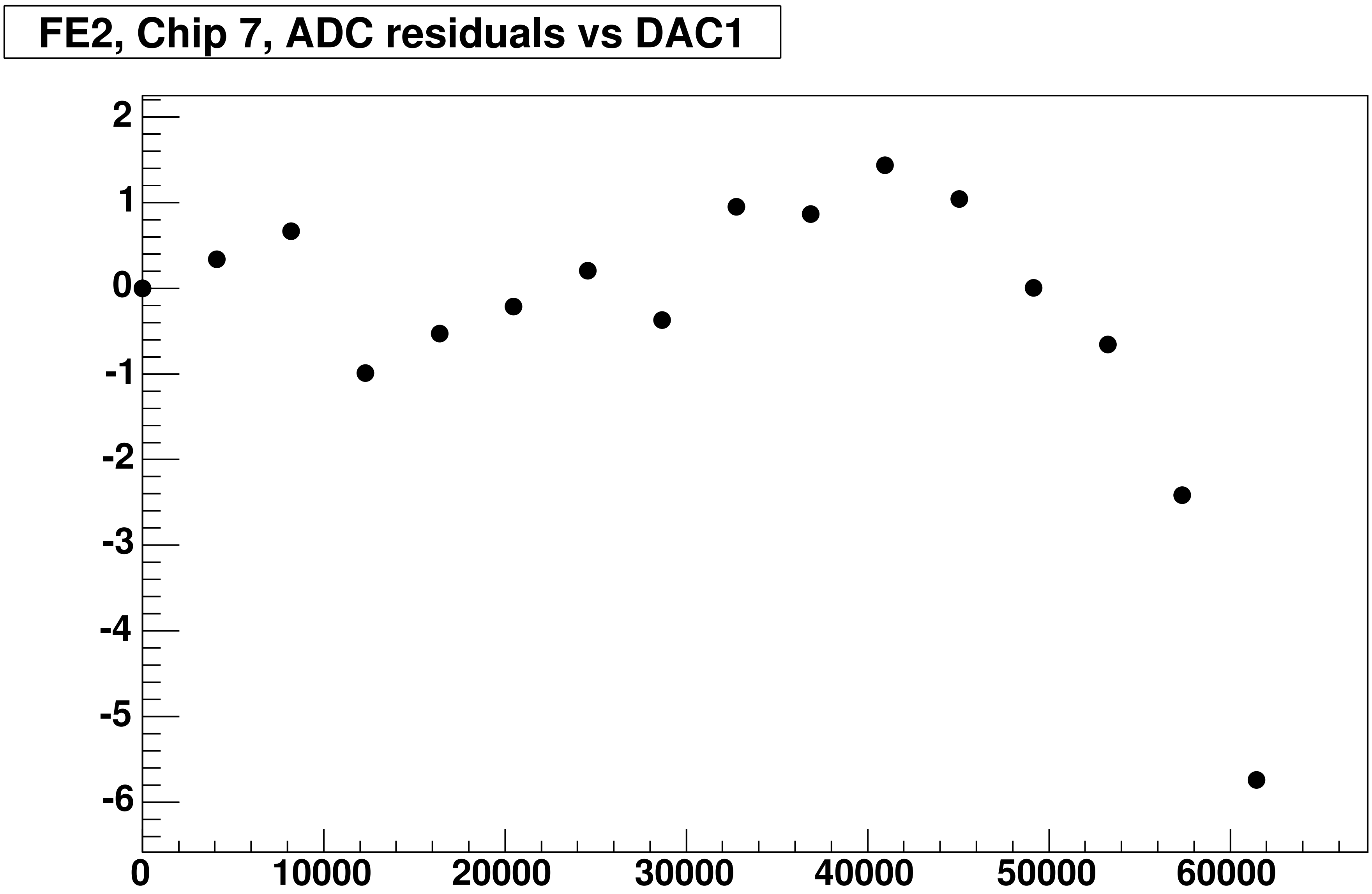


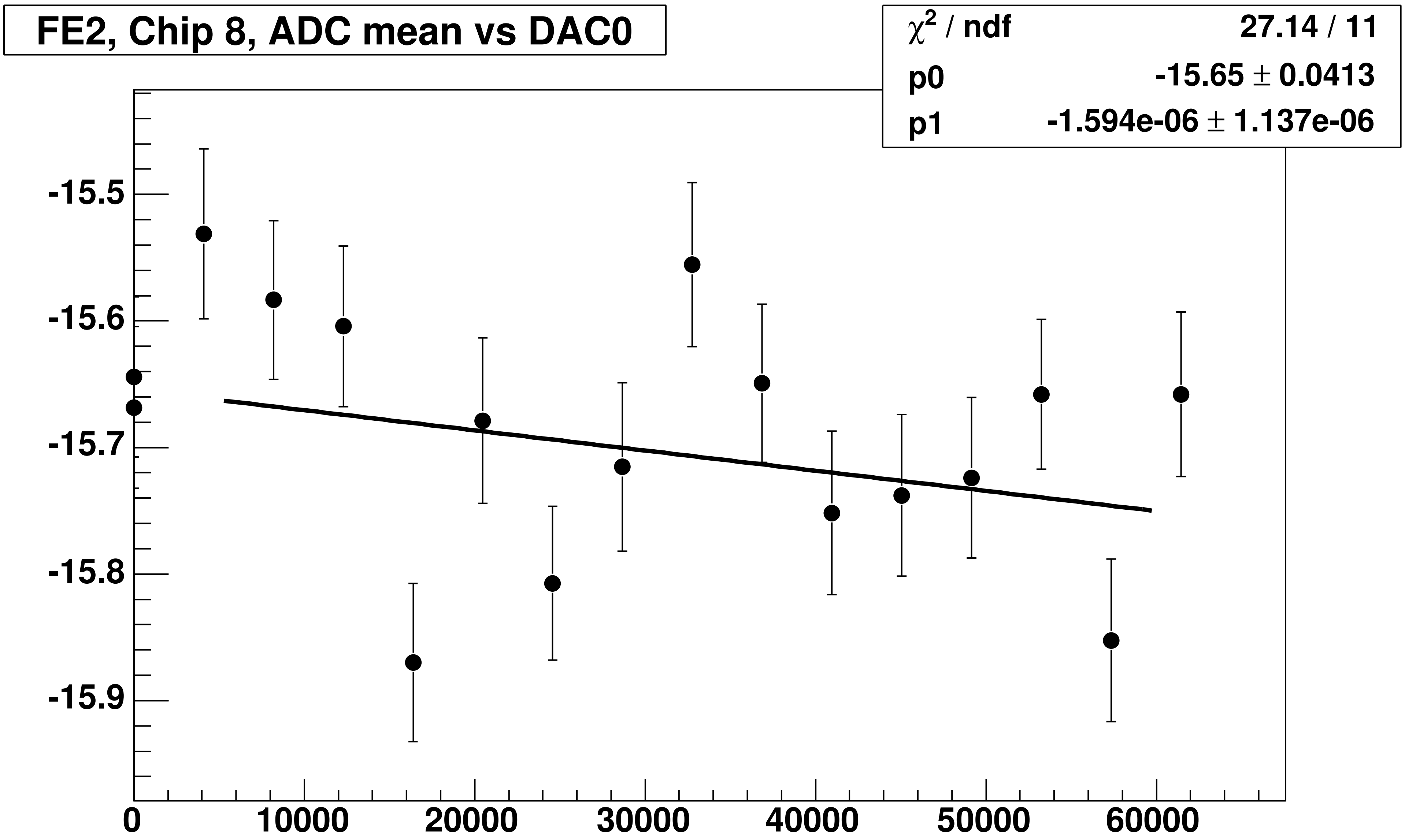
FE2, Chip 7, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


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

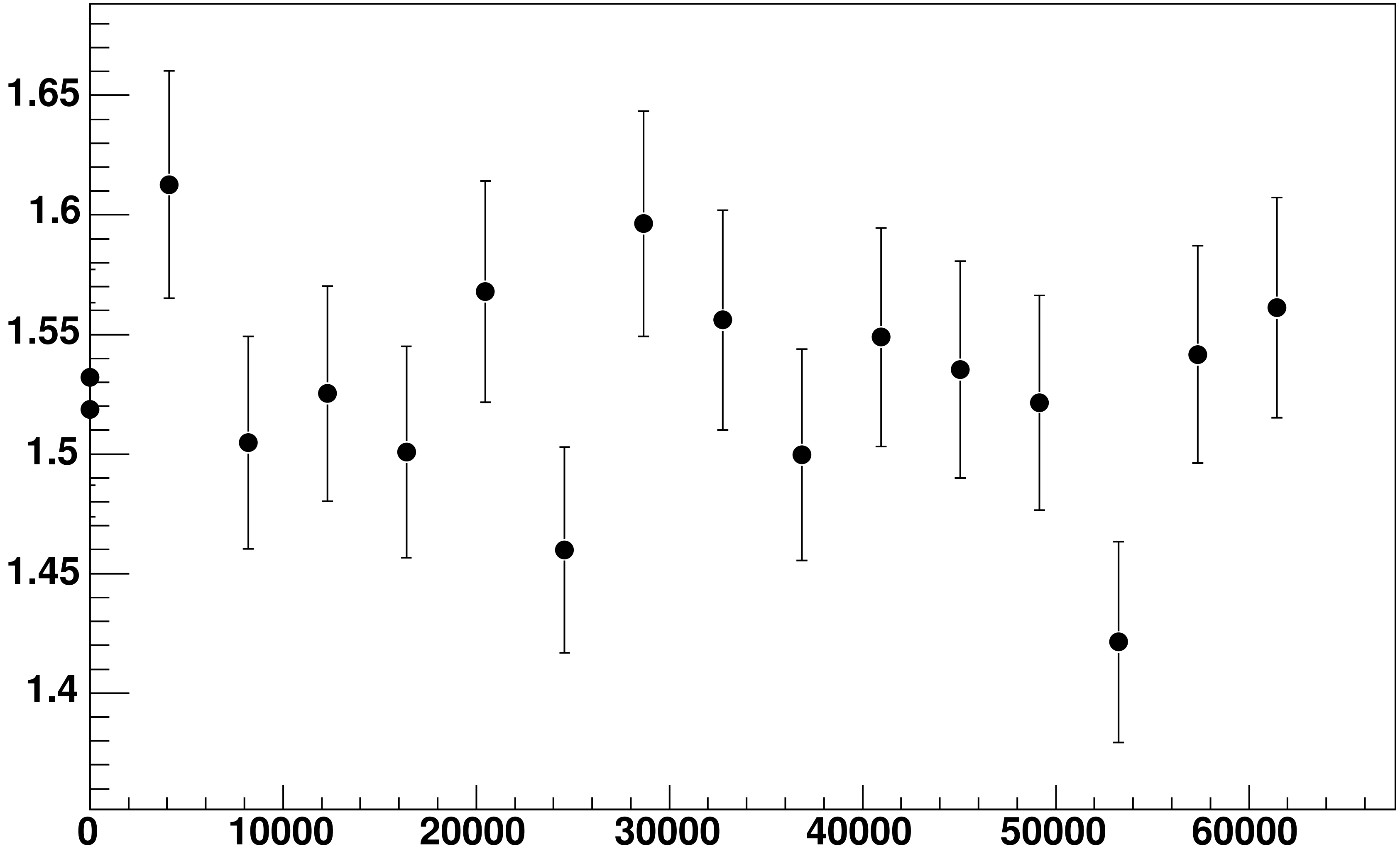

FE2, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1834 / 11
p0 -7.408 ± 0.04238
p1 0.4527 ± 1.361e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

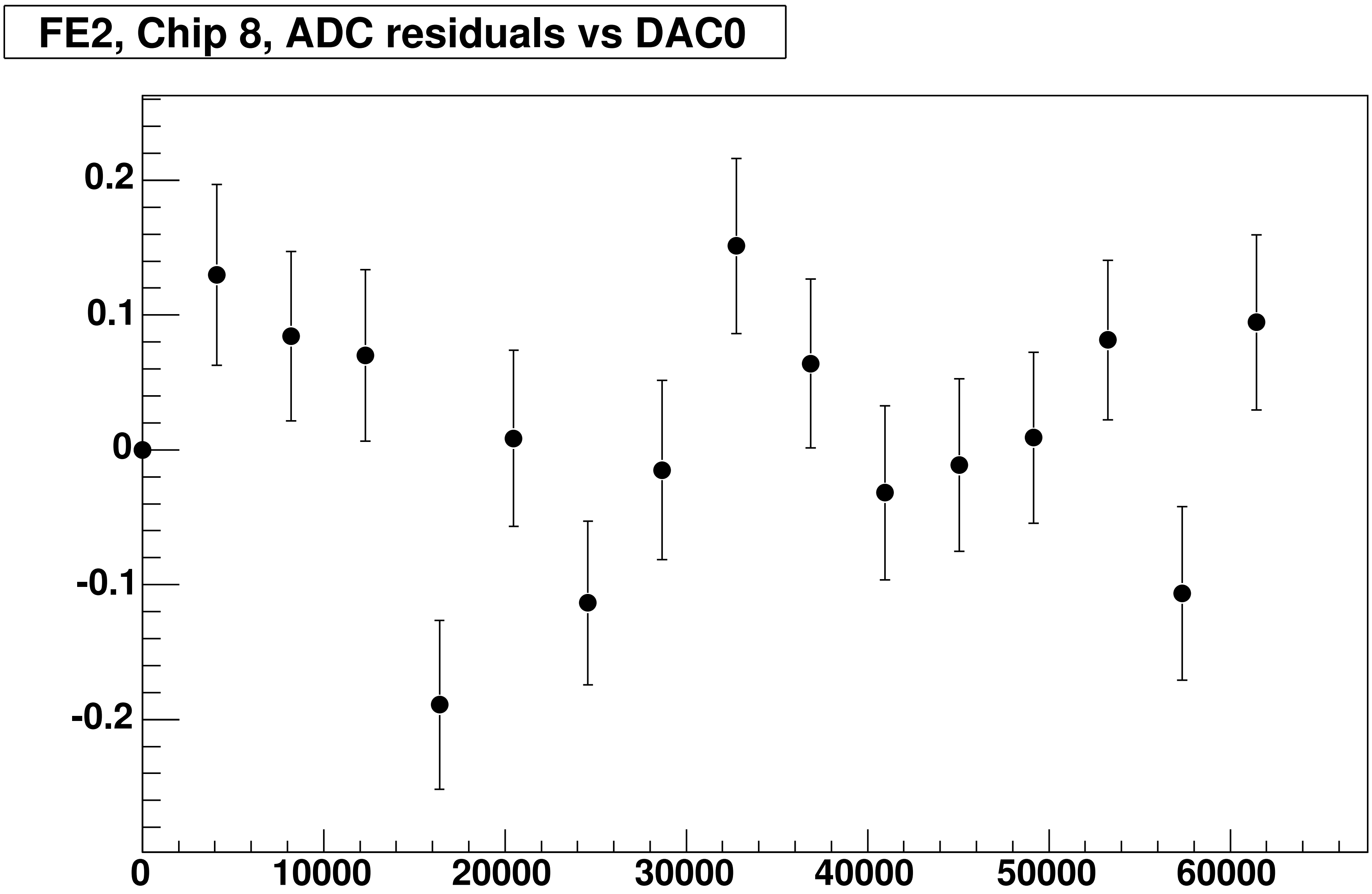

FE2, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

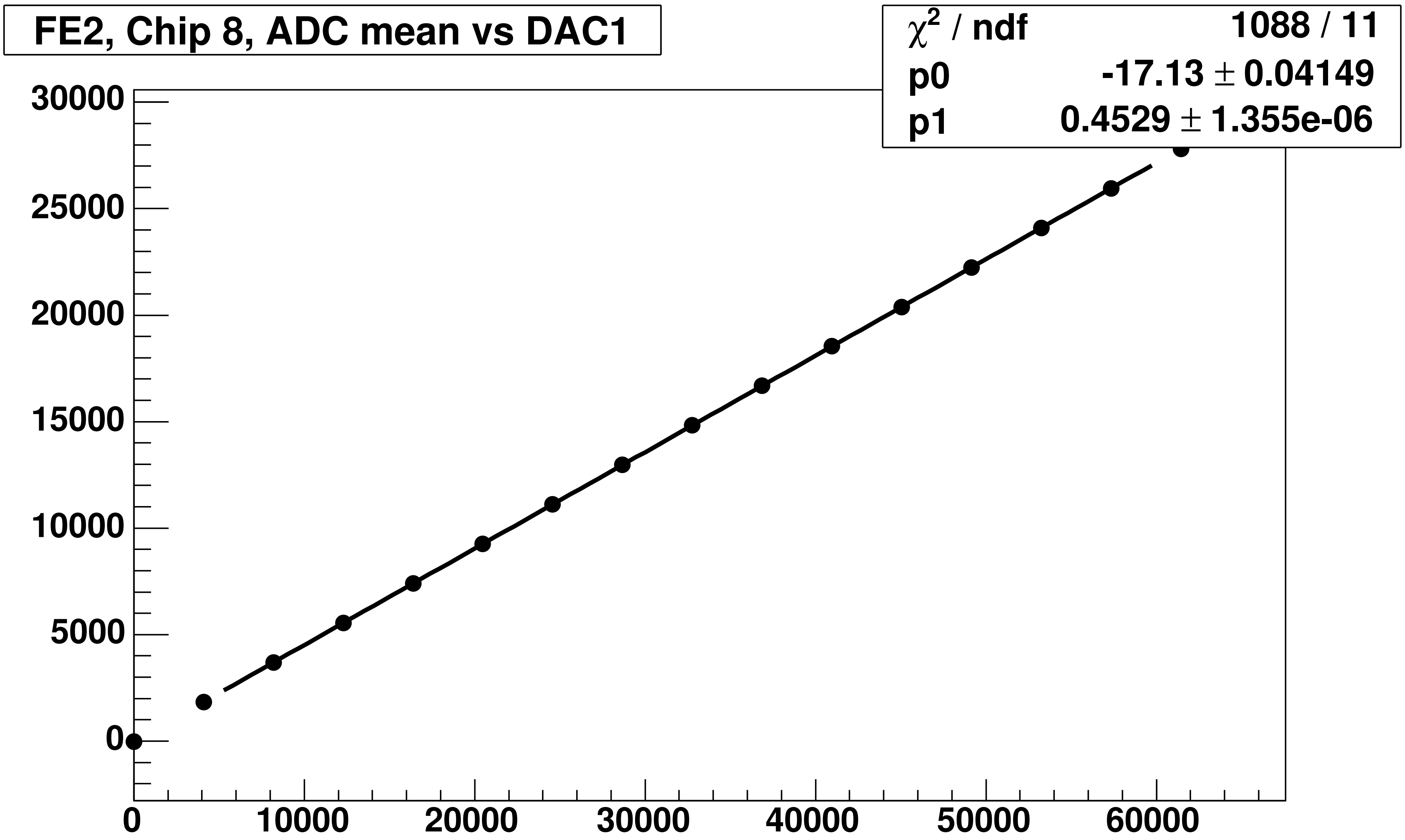

FE2, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

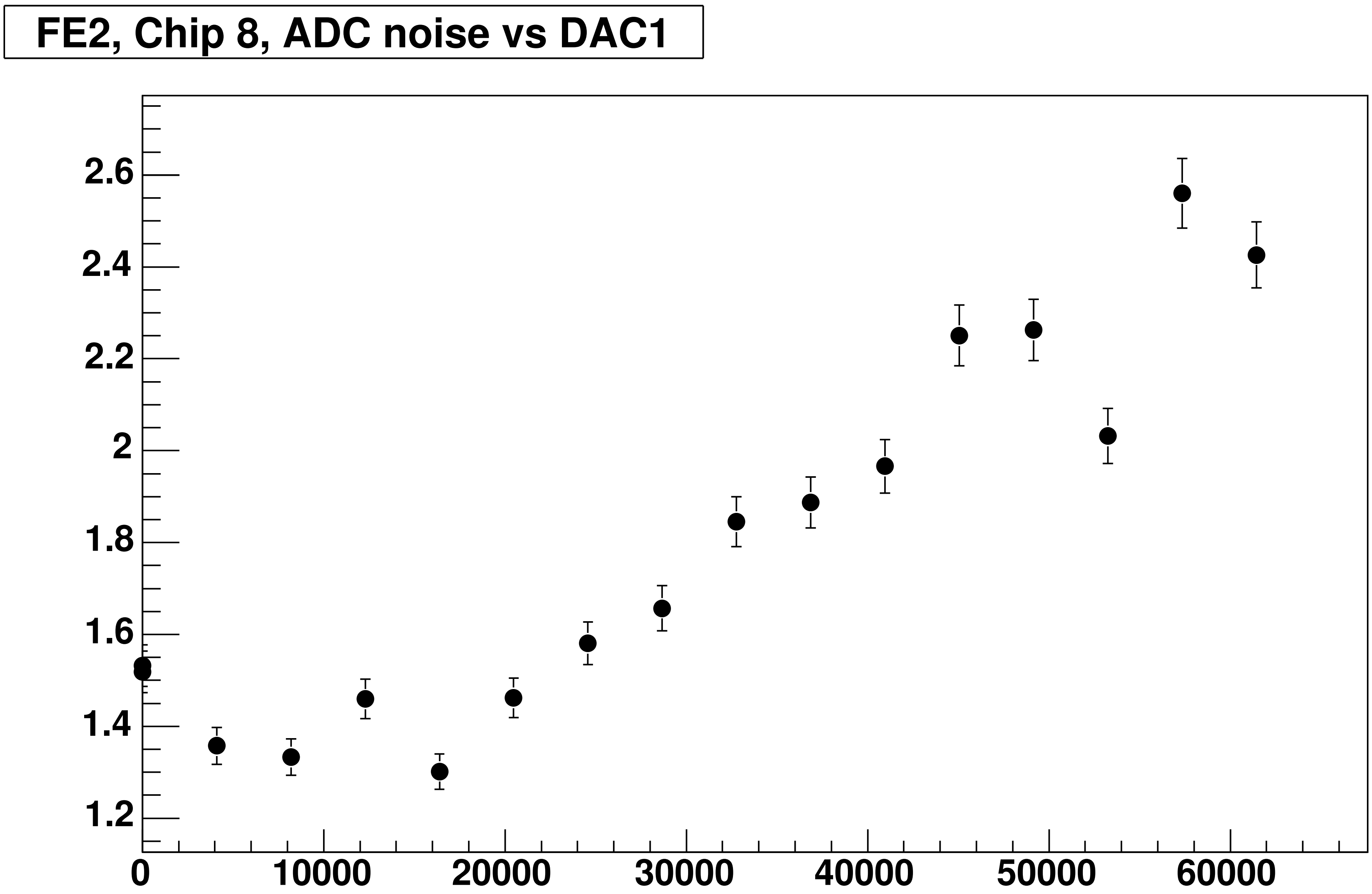

FE2, Chip 8, ADC mean vs DAC0
χ^2 / ndf 27.14 / 11
p0 -15.65 ± 0.0413
p1 -1.594e-06 ± 1.137e-06
-15.5
-15.6
-15.7
-15.8
-15.9
0
10000
20000
30000
40000
50000
60000

FE2, Chip 8, ADC noise vs DAC0

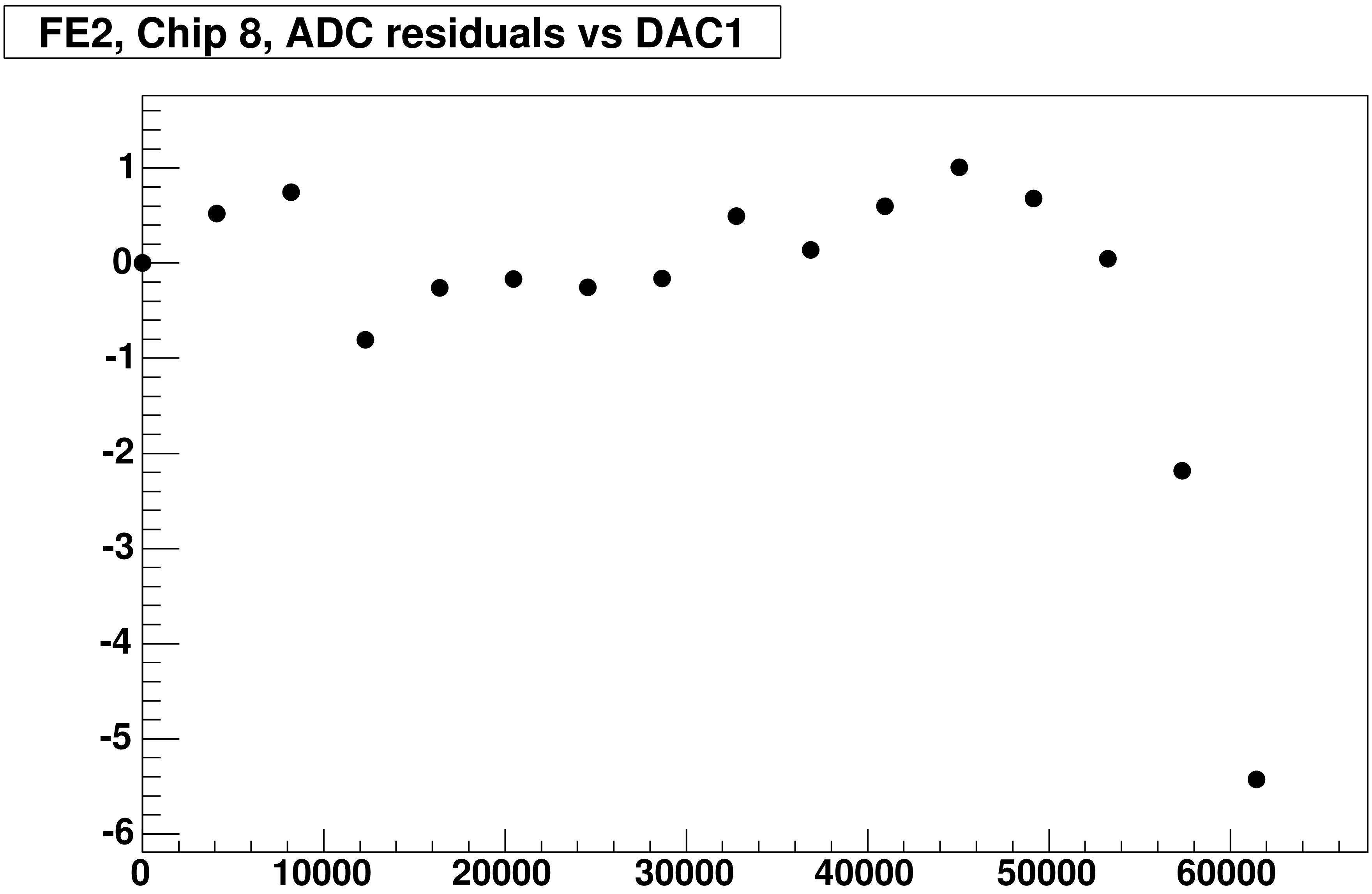


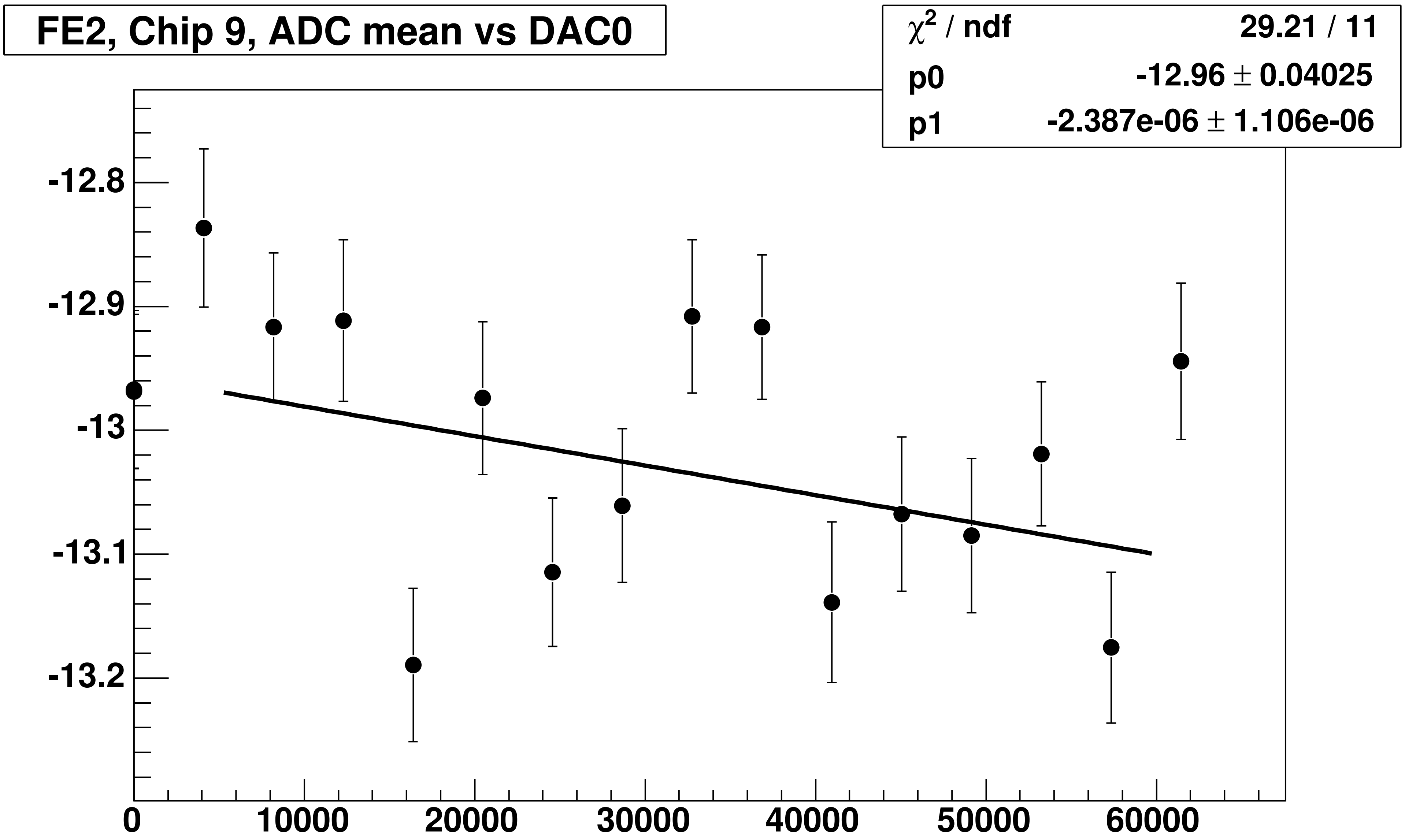

FE2, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

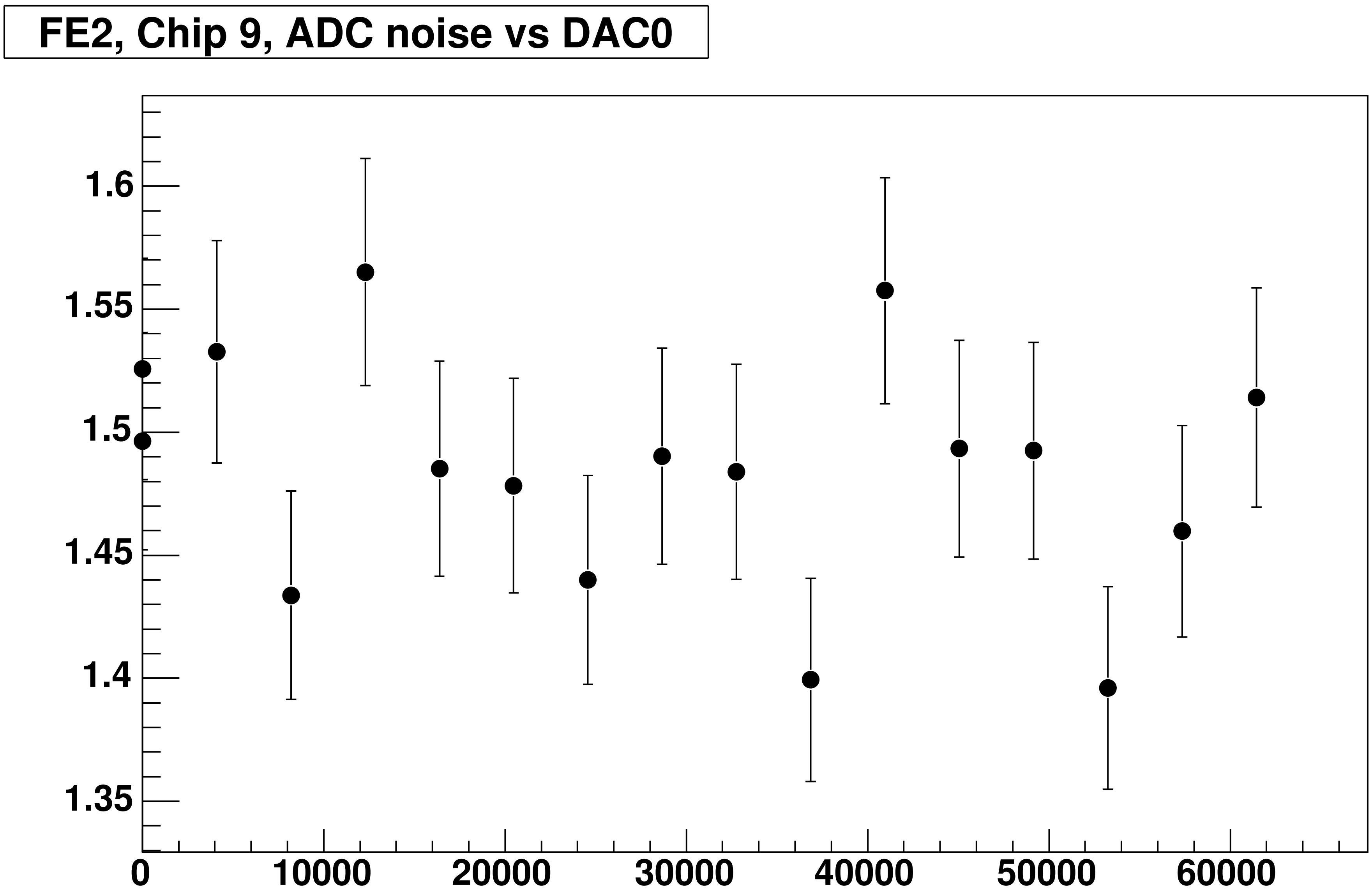

FE2, Chip 8, ADC mean vs DAC1
χ2 / ndf 1088 / 11
p0 -17.13 ± 0.04149
p1 0.4529 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

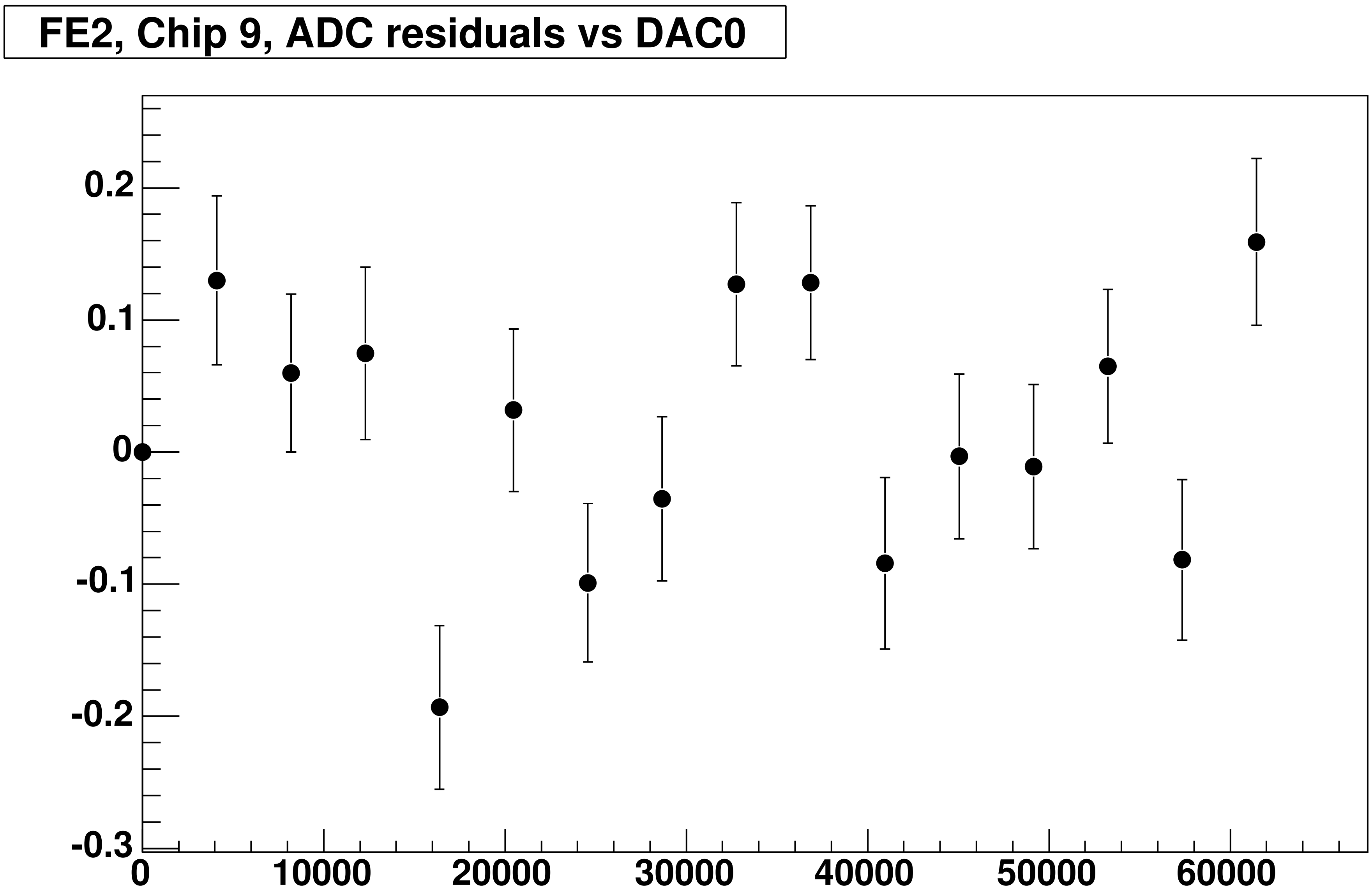


FE2, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

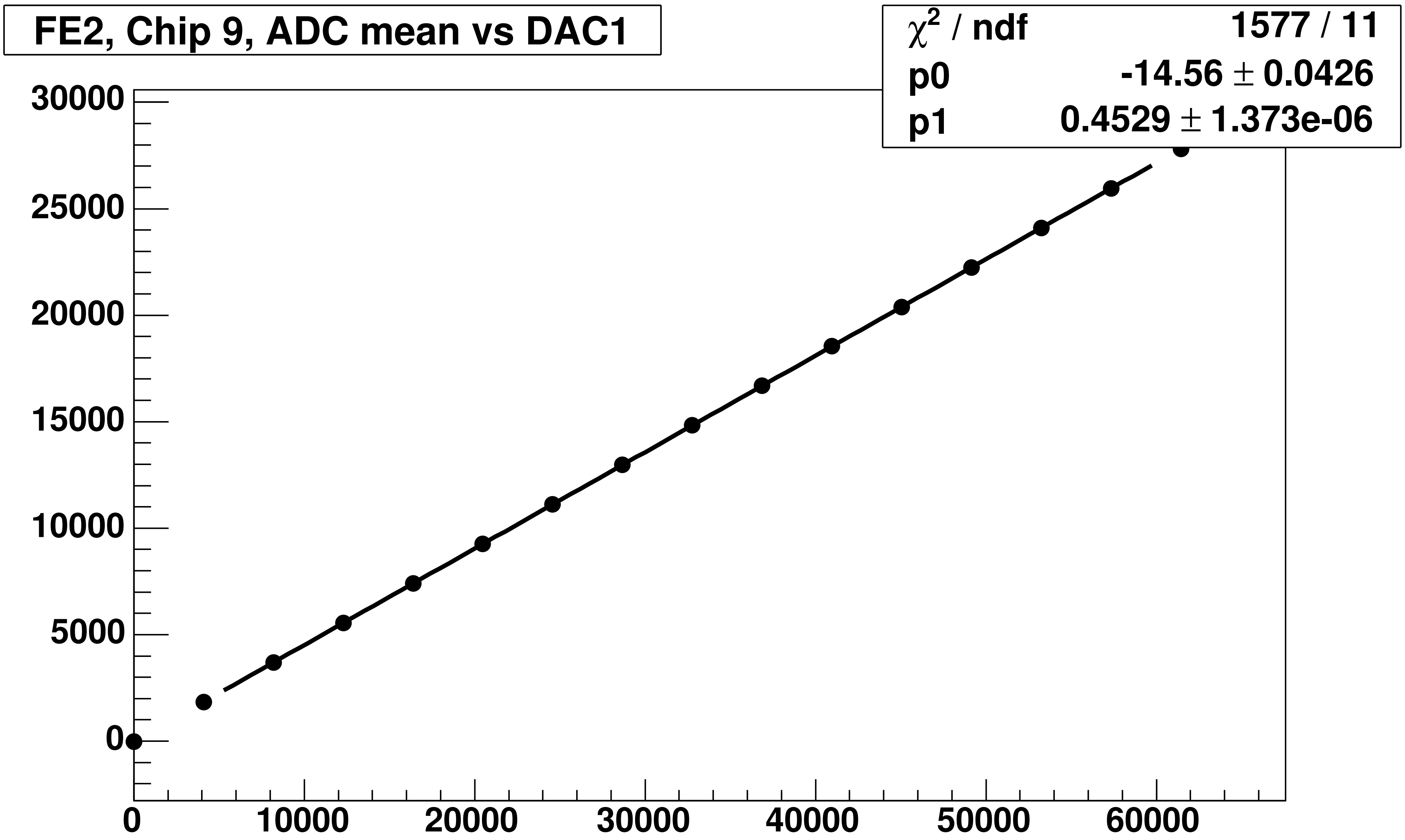

FE2, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

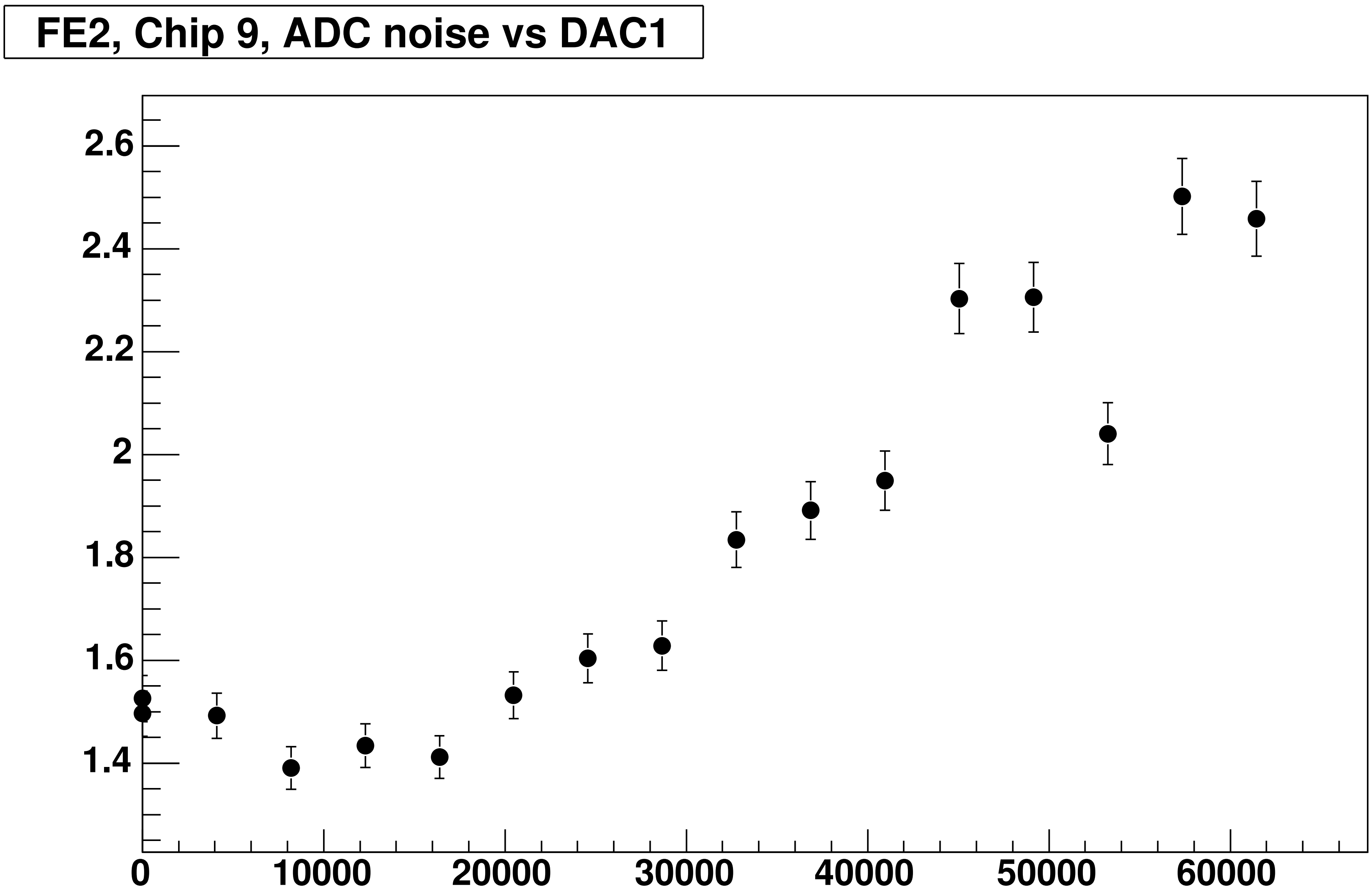

FE2, Chip 9, ADC mean vs DAC0
χ2 / ndf 29.21 / 11
p0 -12.96 ± 0.04025
p1 -2.387e-06 ± 1.106e-06
-12.8
-12.9
-13
-13.1
-13.2
0
10000
20000
30000
40000
50000
60000

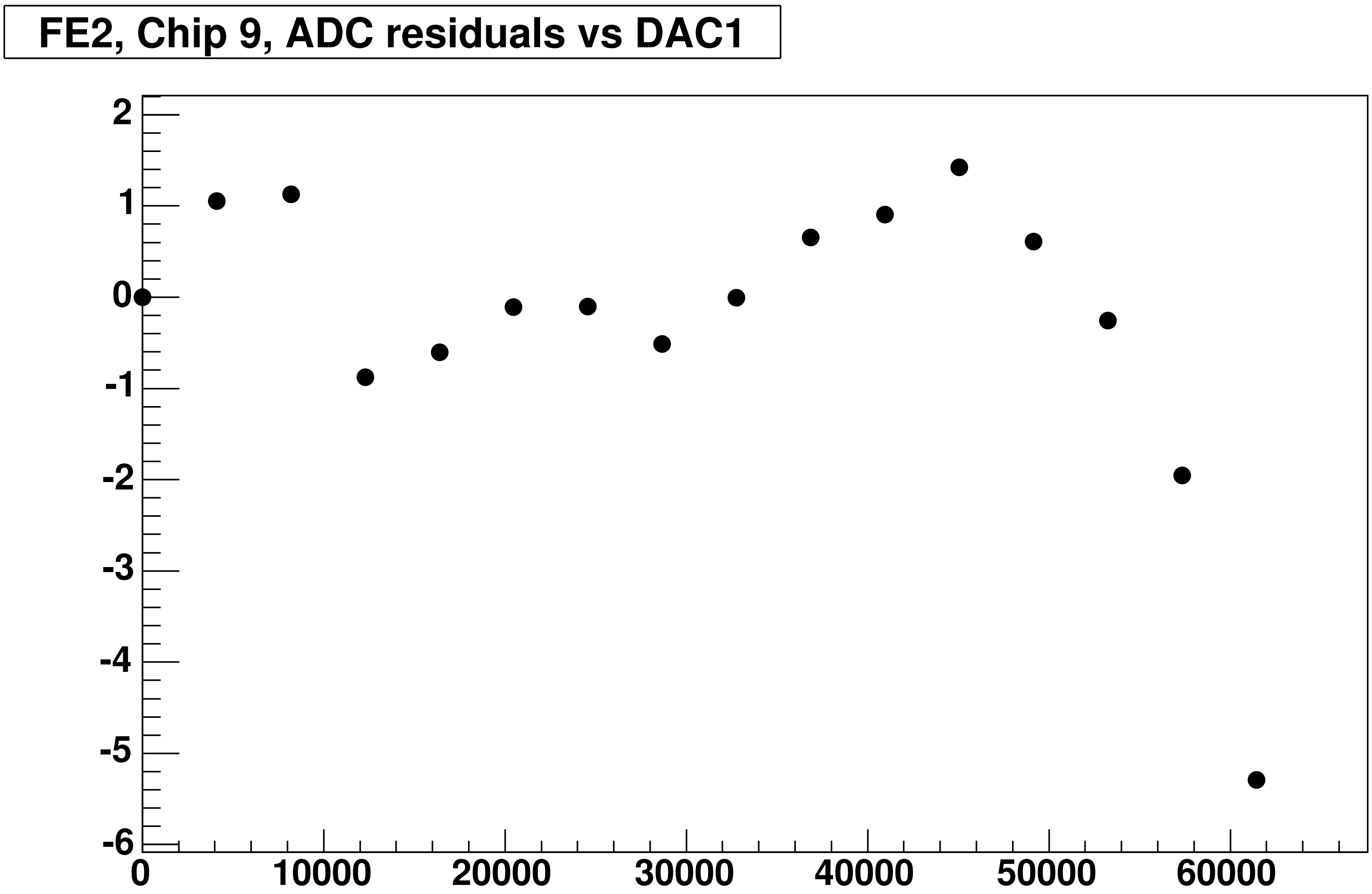

FE2, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



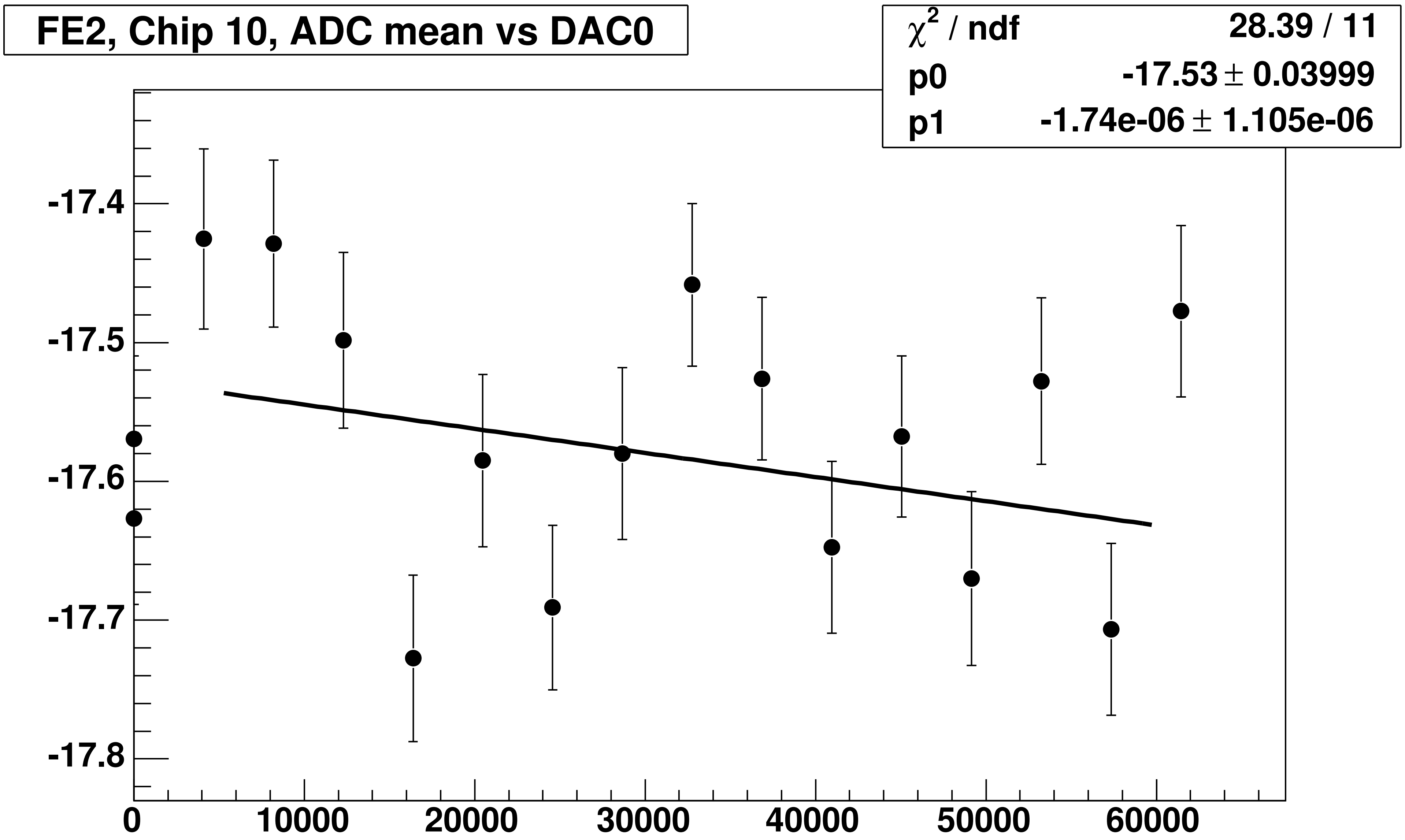
FE2, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

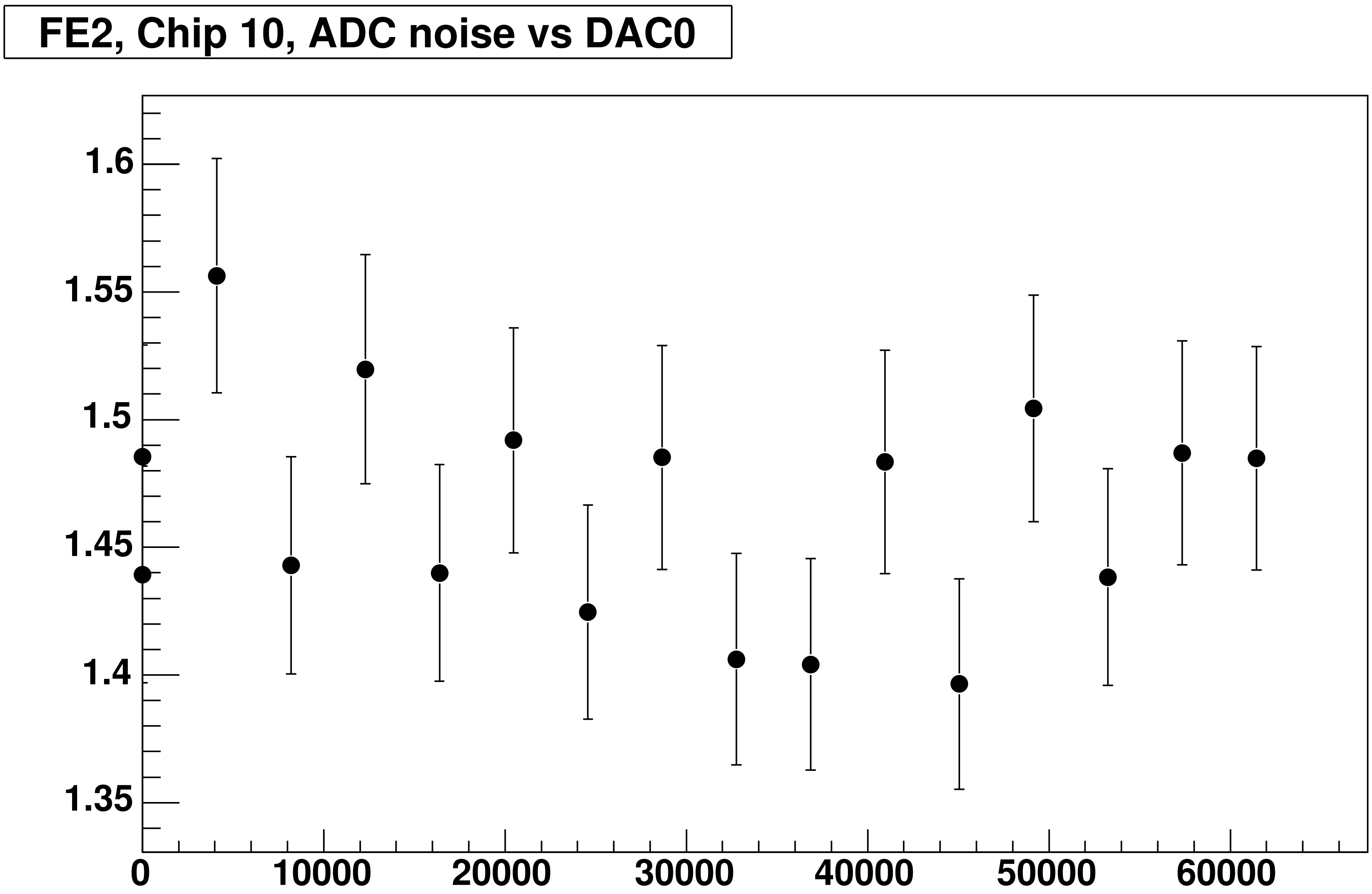

FE2, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1577 / 11
p0 -14.56 ± 0.0426
p1 0.4529 ± 1.373e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

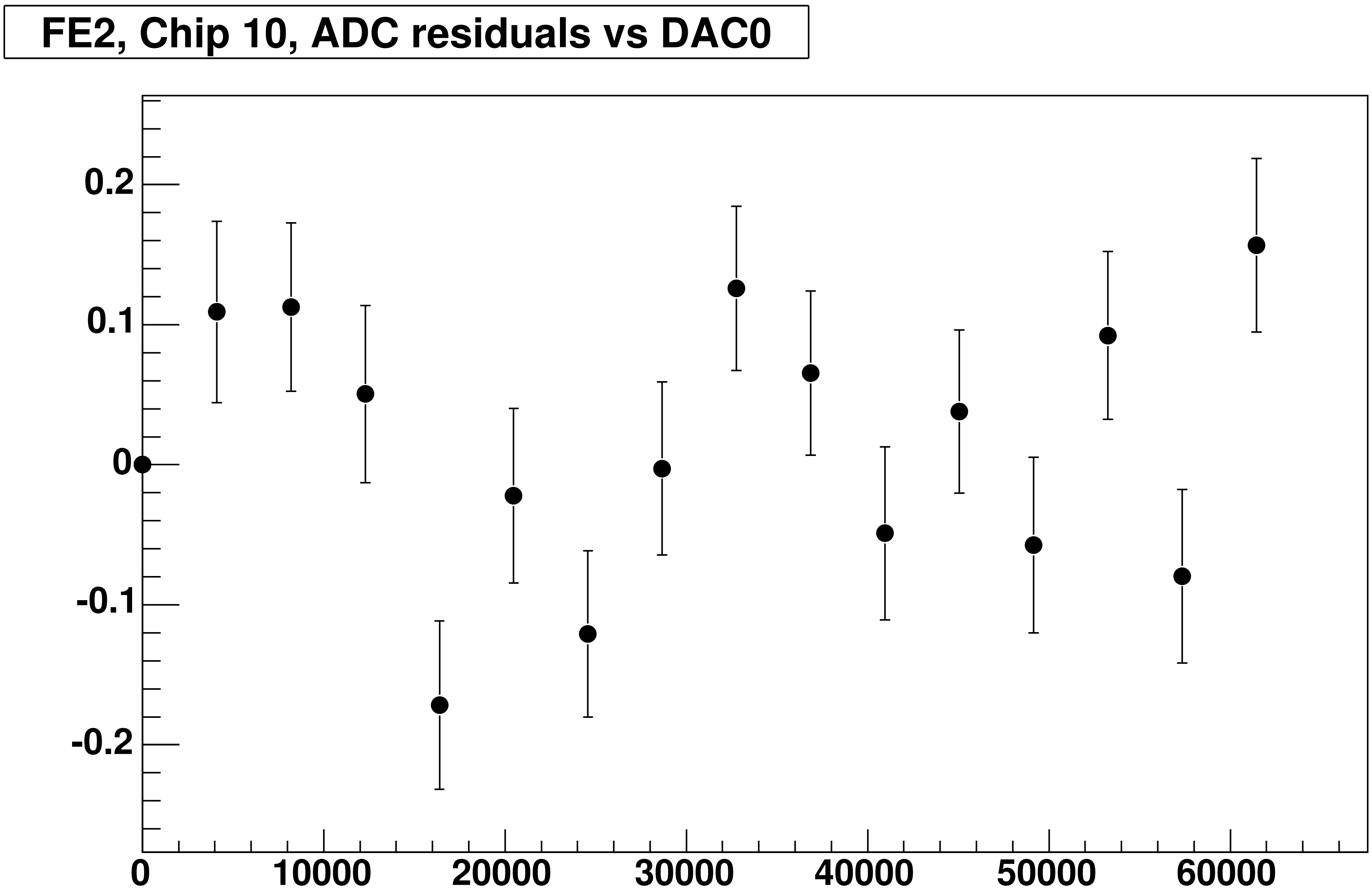


FE2, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

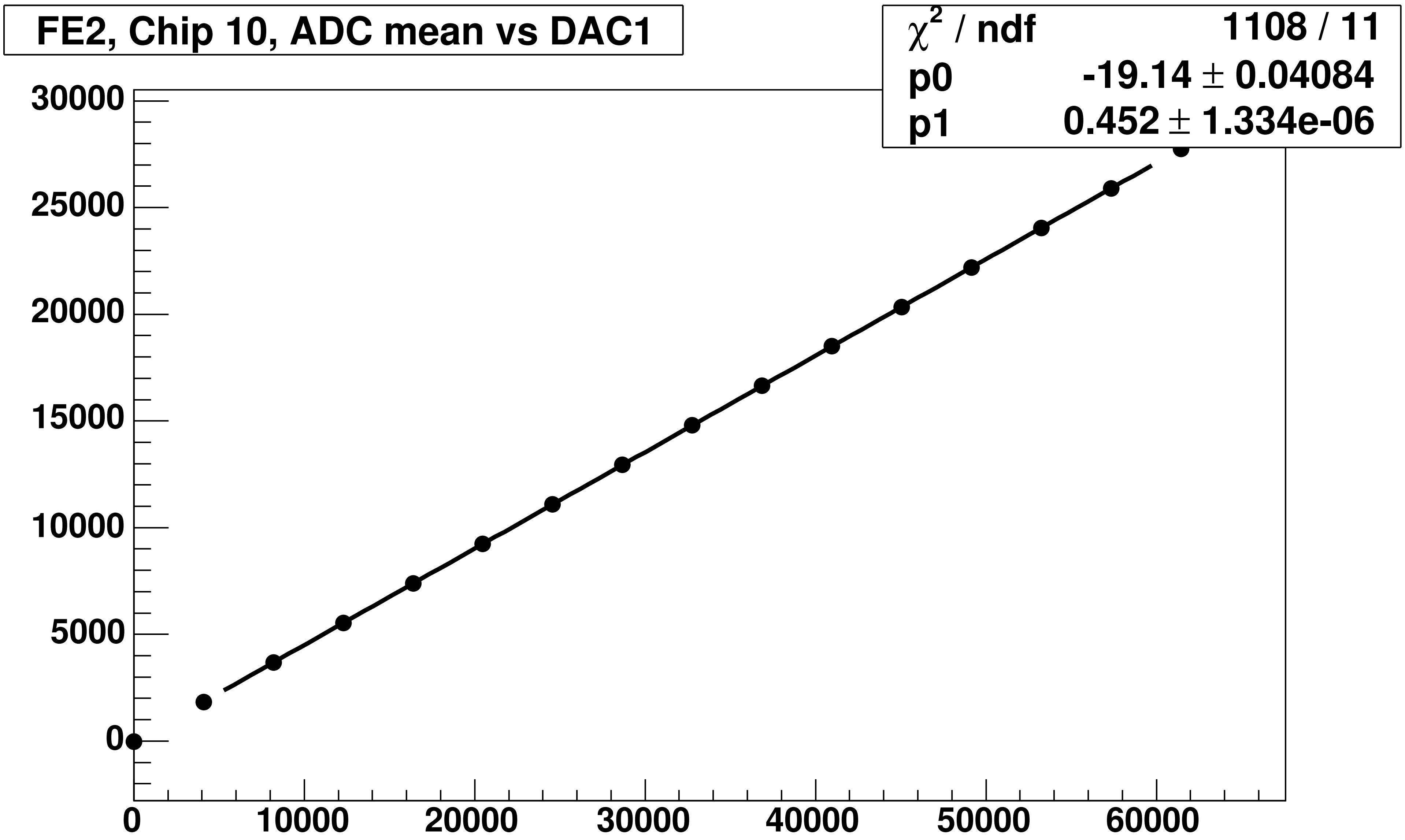

FE2, Chip 10, ADC mean vs DAC0
χ^2 / ndf 28.39 / 11
p0 -17.53 ± 0.03999
p1 -1.74e-06 ± 1.105e-06
-17.4
-17.5
-17.6
-17.7
-17.8
0
10000
20000
30000
40000
50000
60000



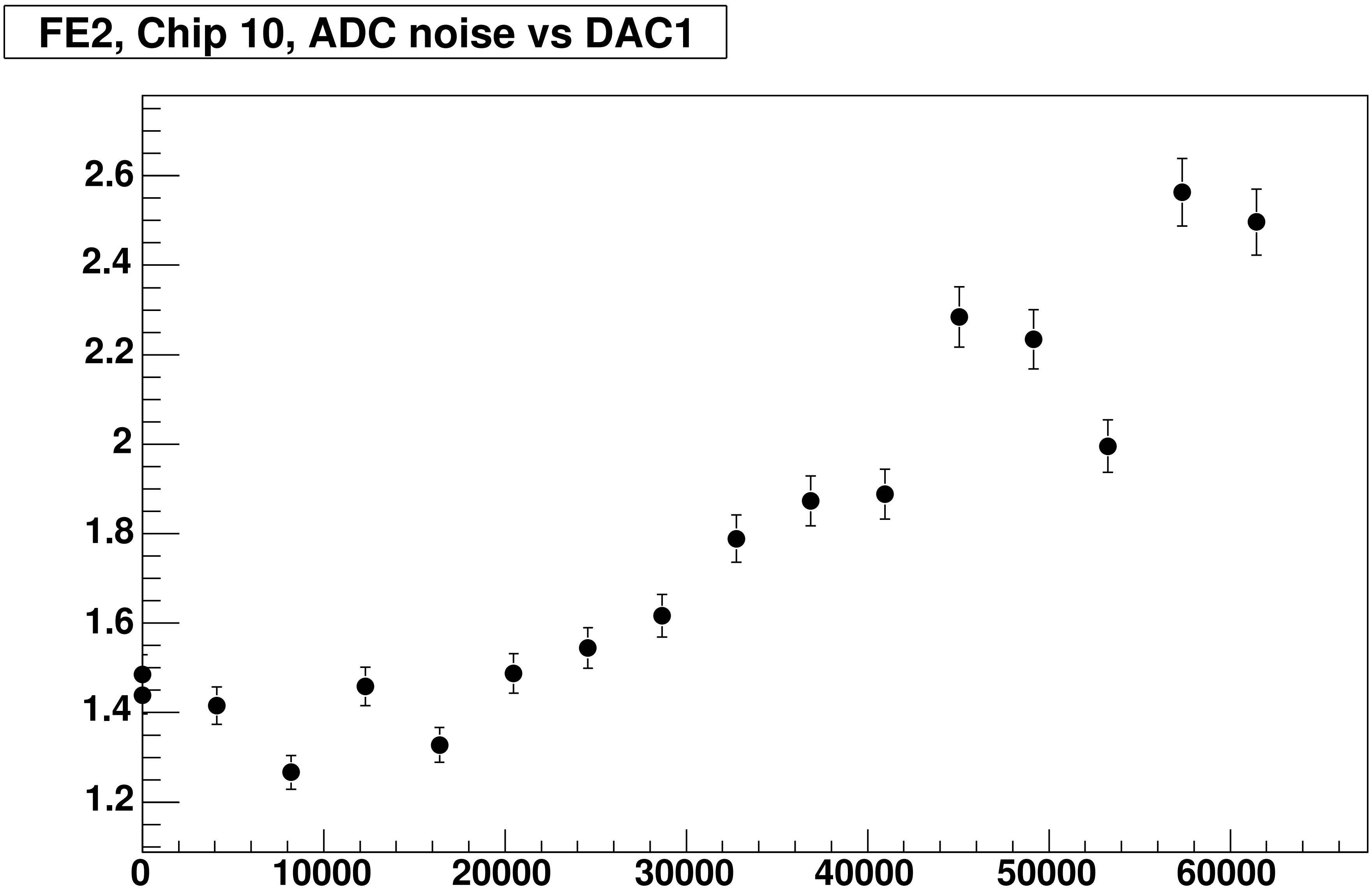
FE2, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

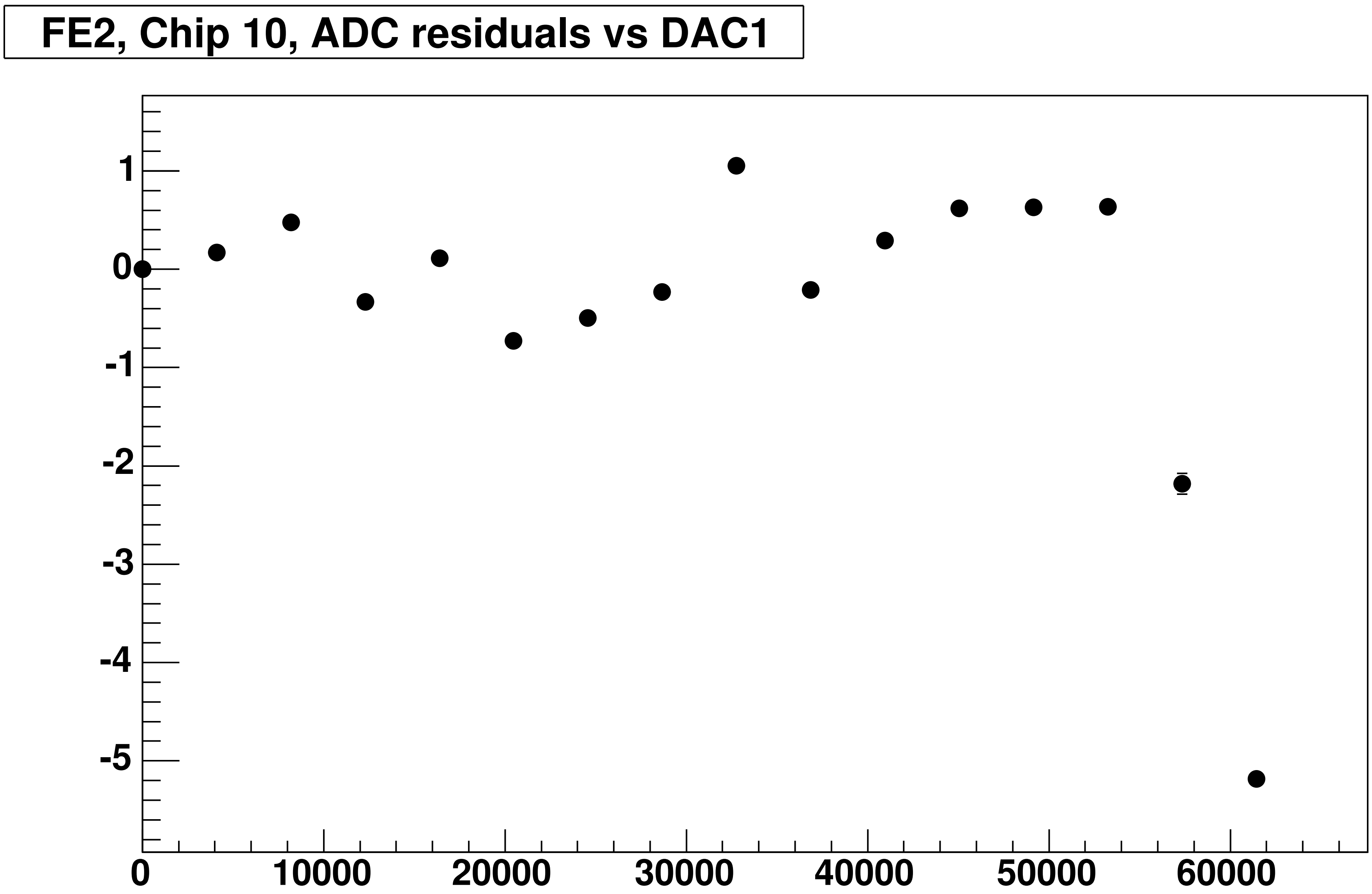


FE2, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

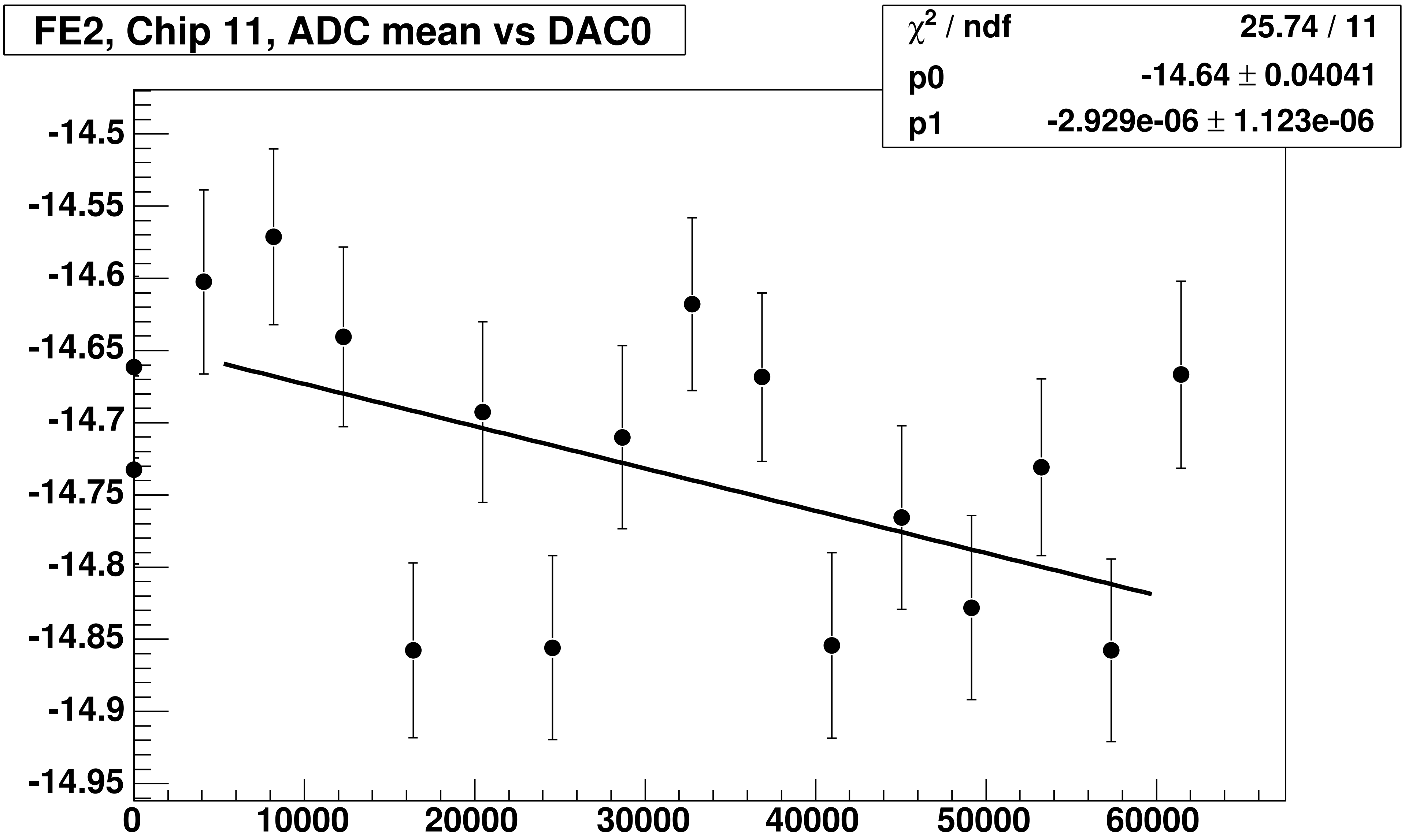


FE2, Chip 10, ADC mean vs DAC1
χ² / ndf 1108 / 11
p0 -19.14 ± 0.04084
p1 0.452 ± 1.334e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

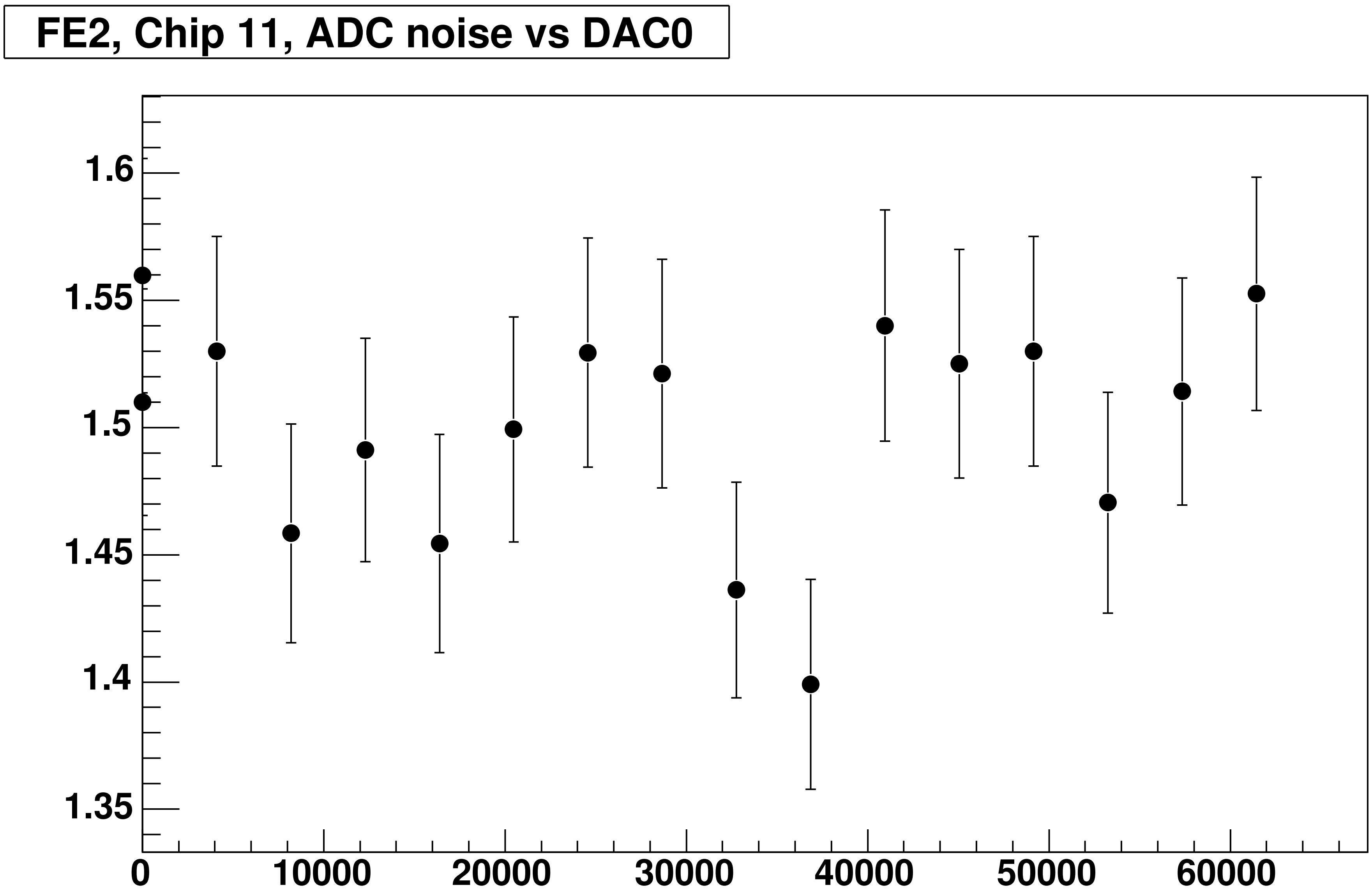

FE2, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

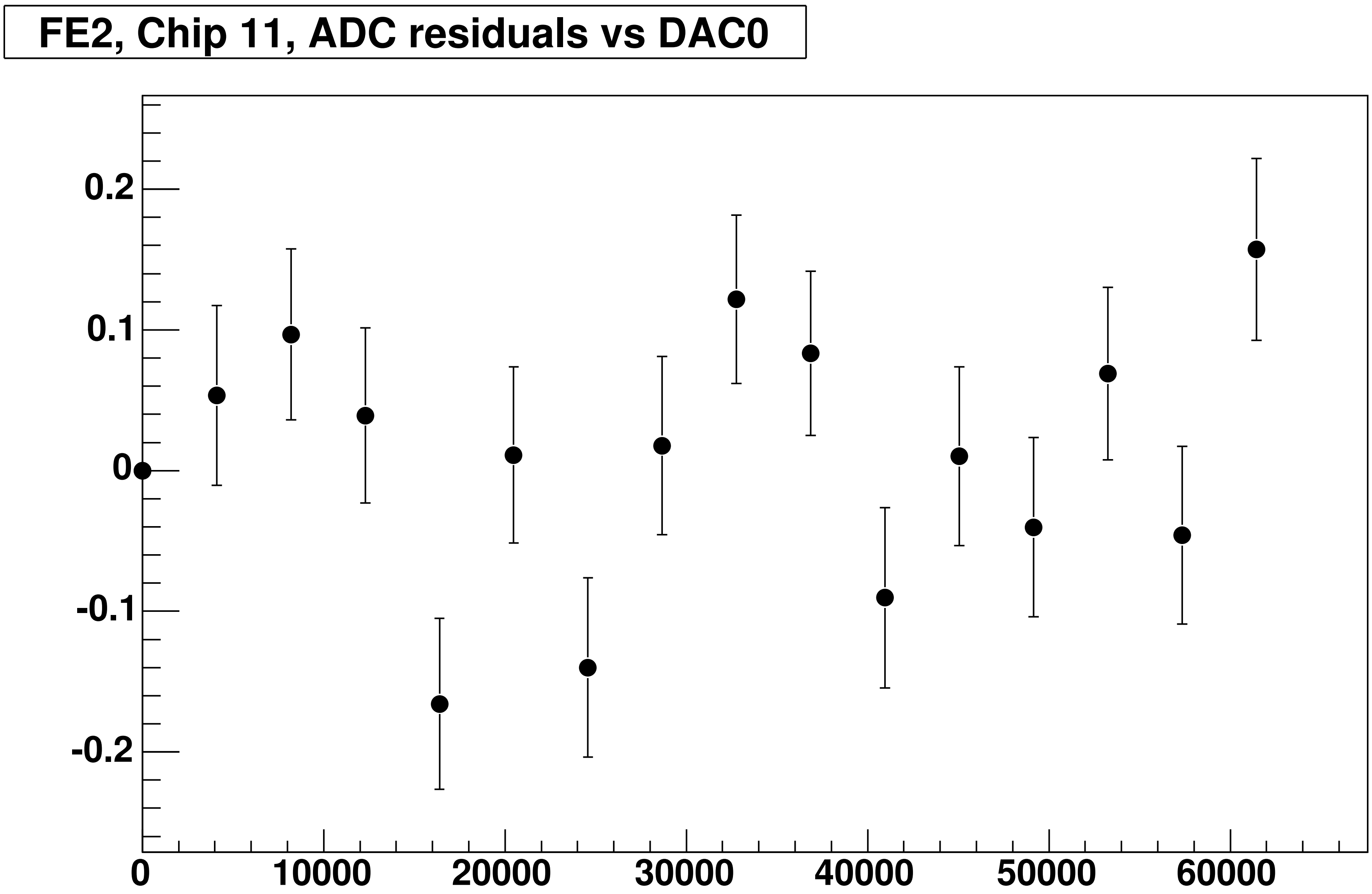


FE2, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

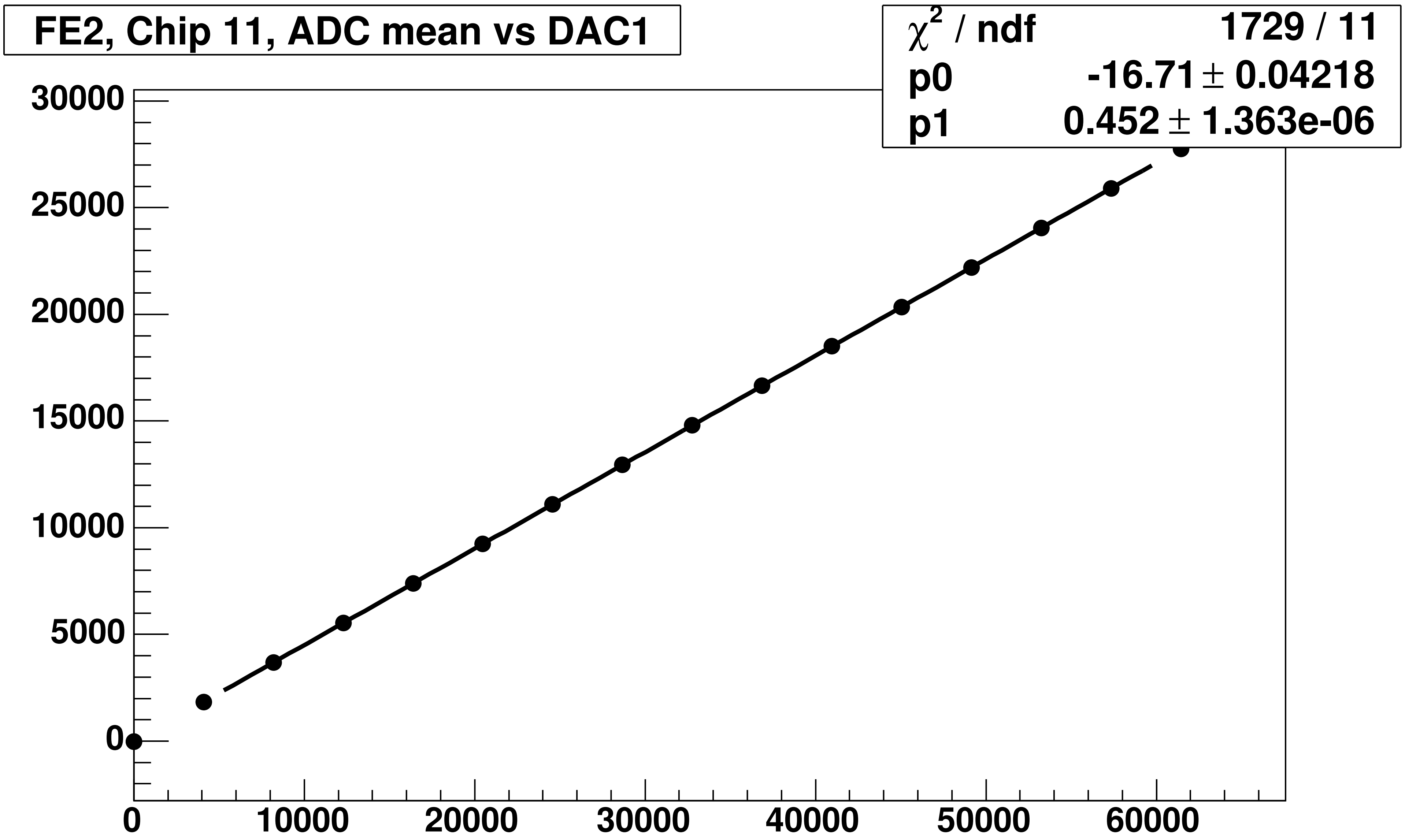


FE2, Chip 11, ADC mean vs DAC0
χ^2 / ndf 25.74 / 11
p0 -14.64 ± 0.04041
p1 -2.929e-06 ± 1.123e-06
-14.5
-14.55
-14.6
-14.65
-14.7
-14.75
-14.8
-14.85
-14.9
-14.95
0
10000
20000
30000
40000
50000
60000

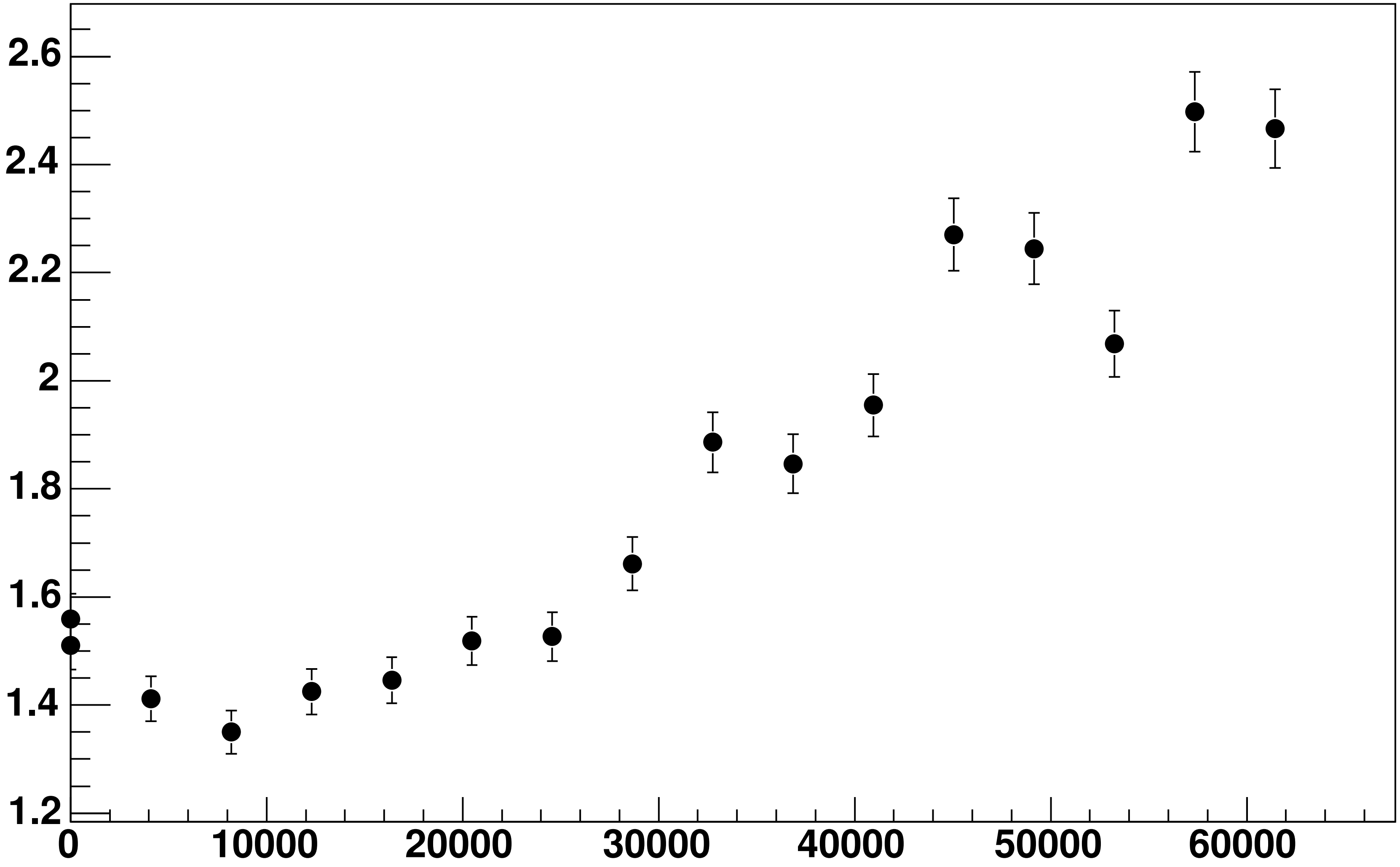

FE2, Chip 11, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

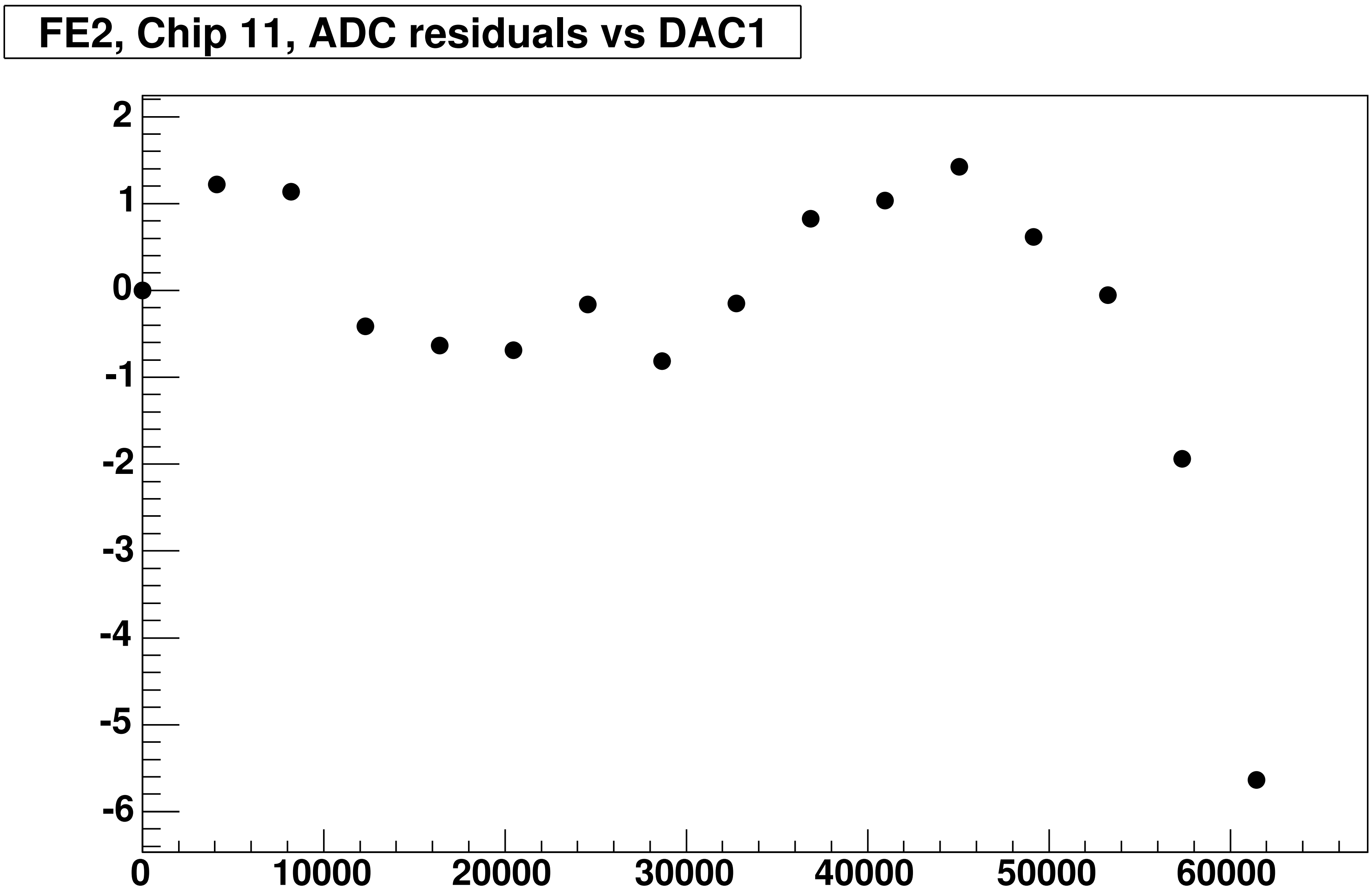


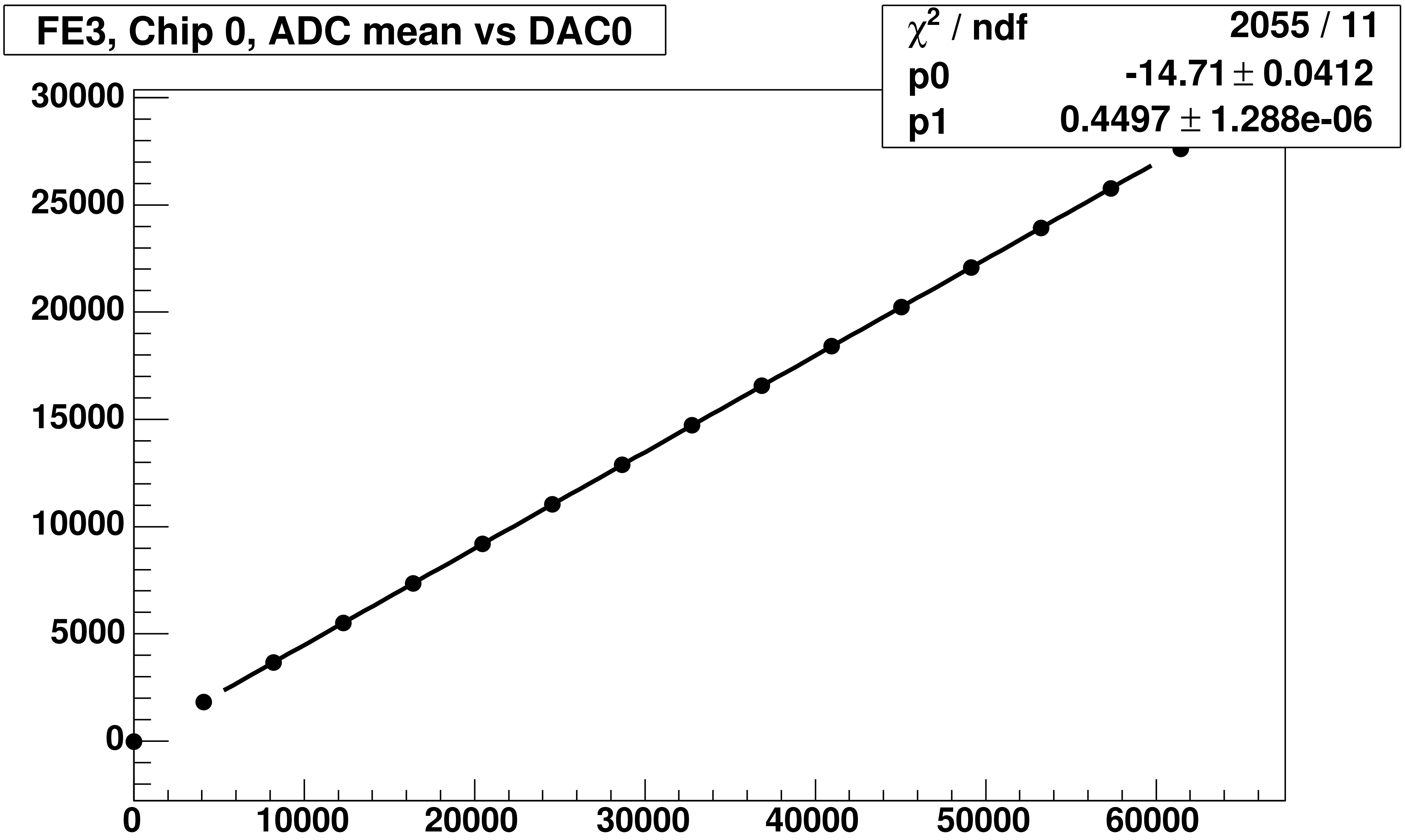
FE2, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE2, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1729 / 11
p0 -16.71 ± 0.04218
p1 0.452 ± 1.363e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

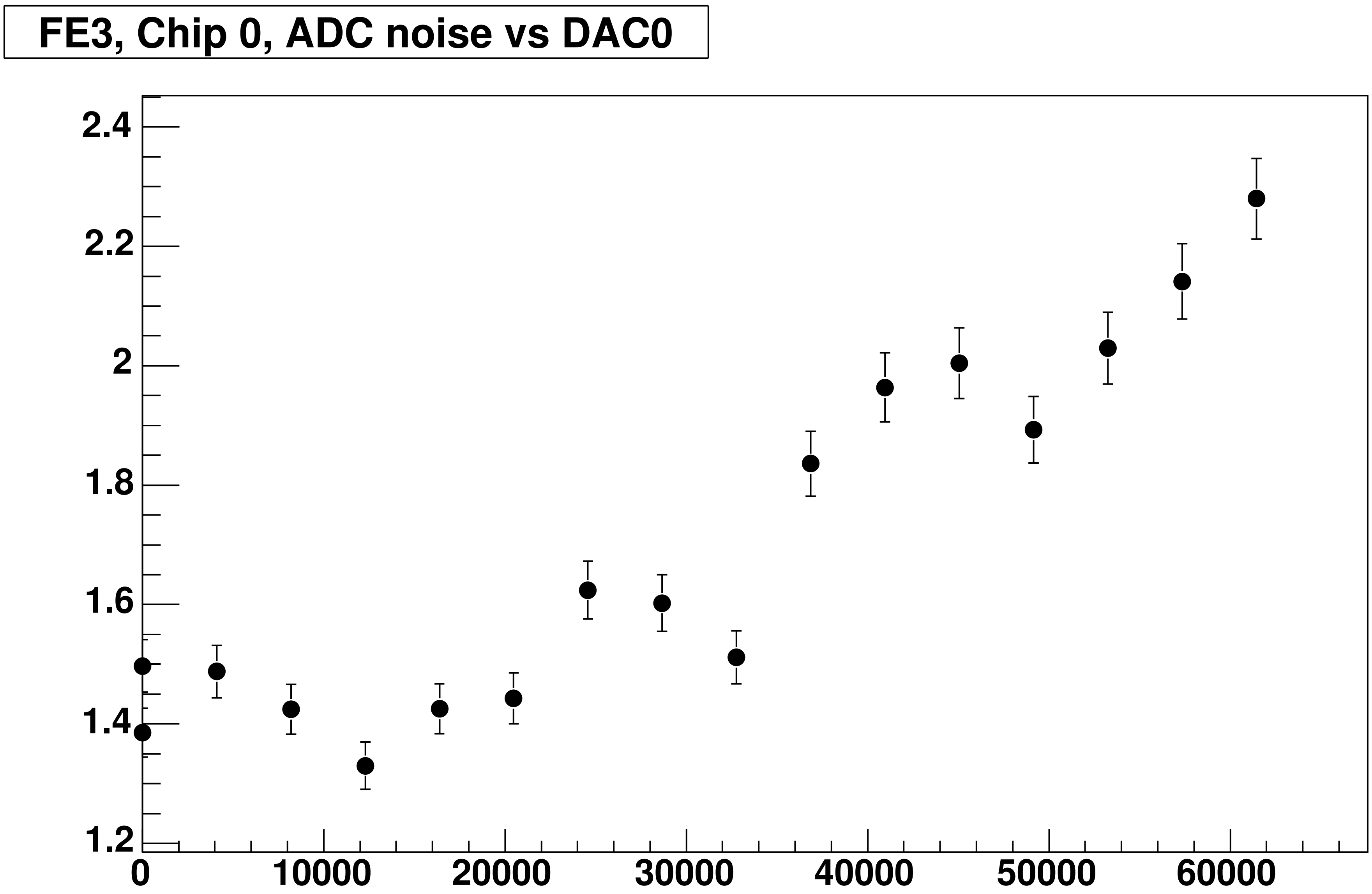
FE2, Chip 11, ADC noise vs DAC1

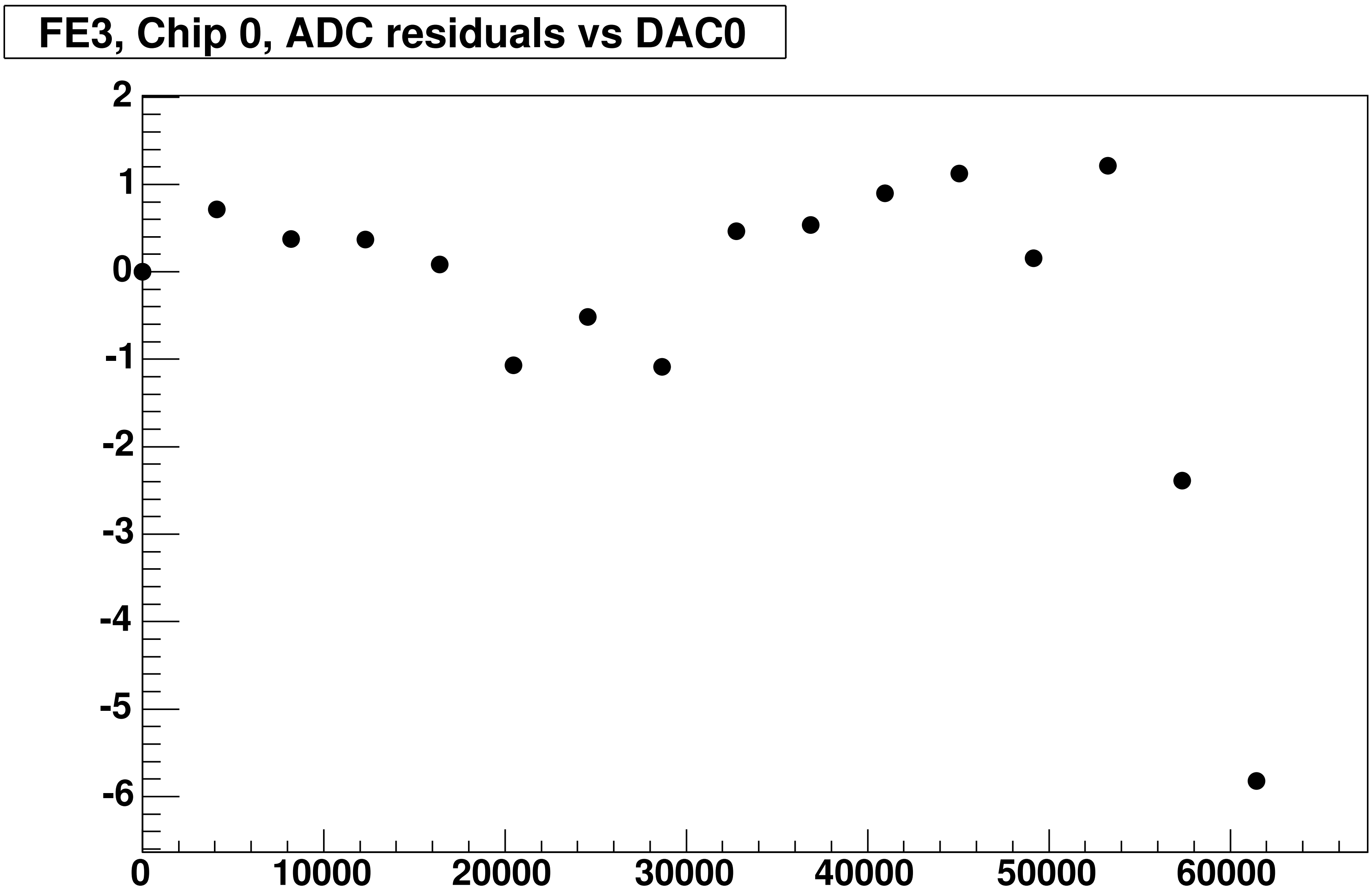


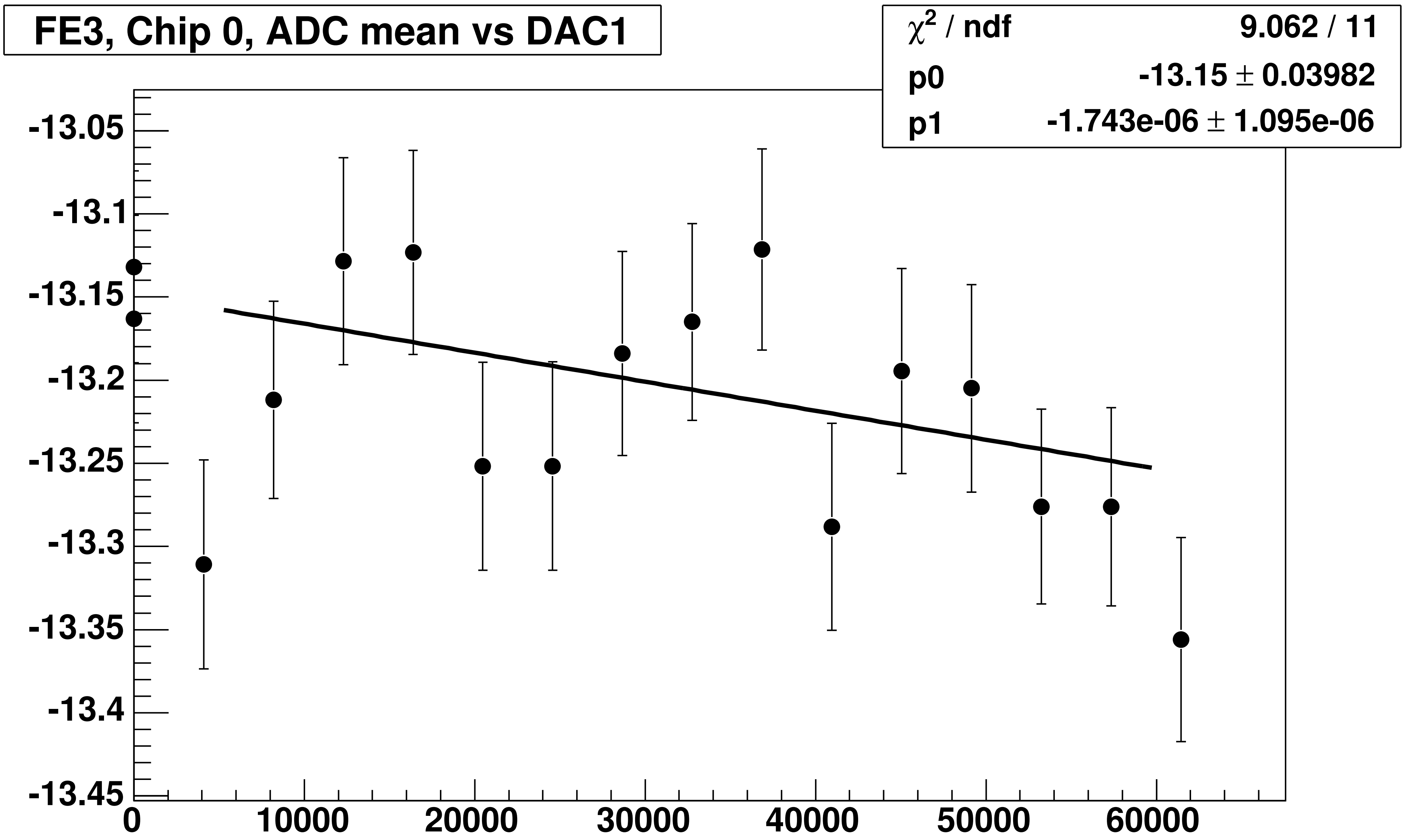

FE2, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



FE3, Chip 0, ADC mean vs DAC0
χ² / ndf 2055 / 11
p0 -14.71 ± 0.0412
p1 0.4497 ± 1.288e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

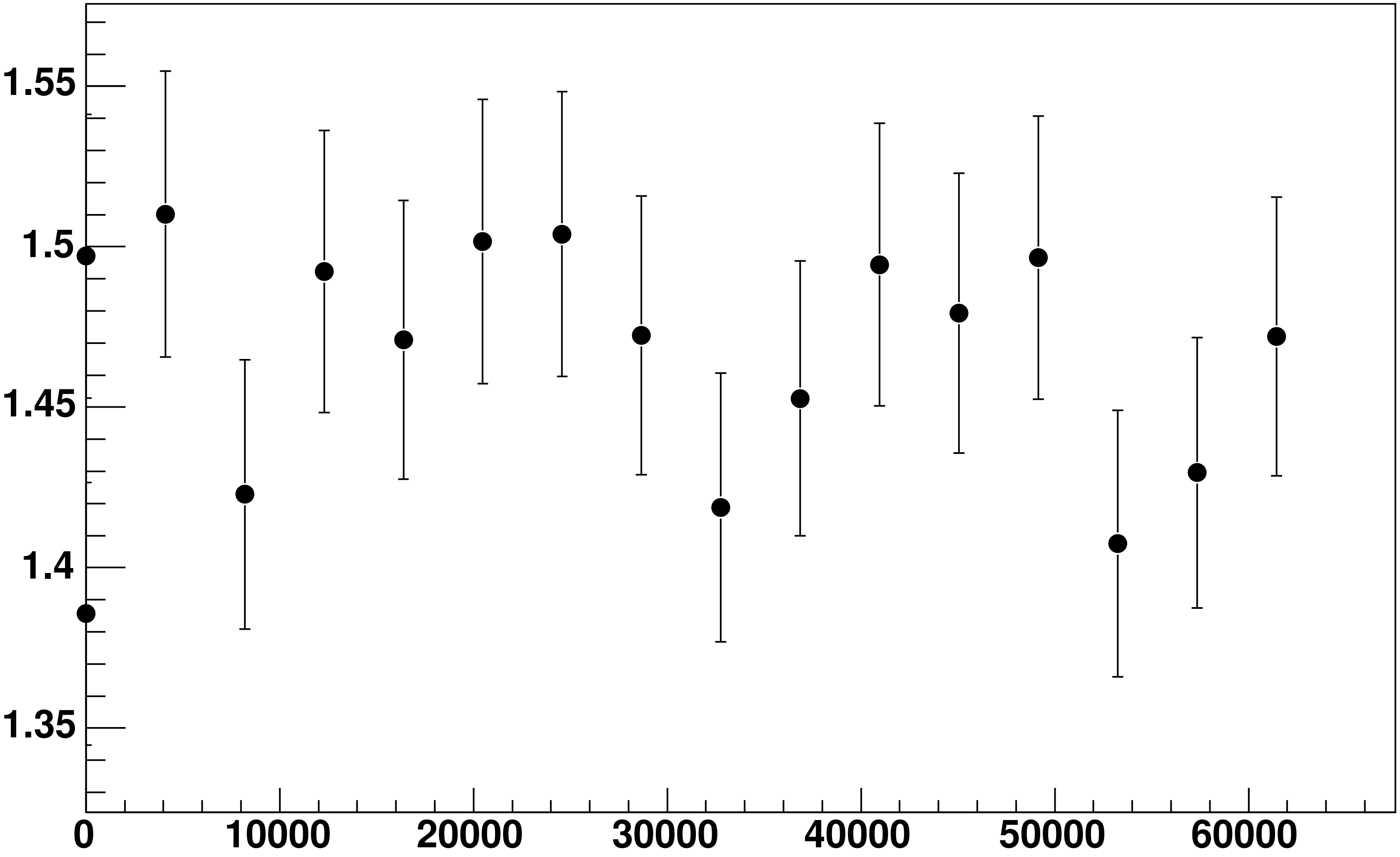

FE3, Chip 0, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

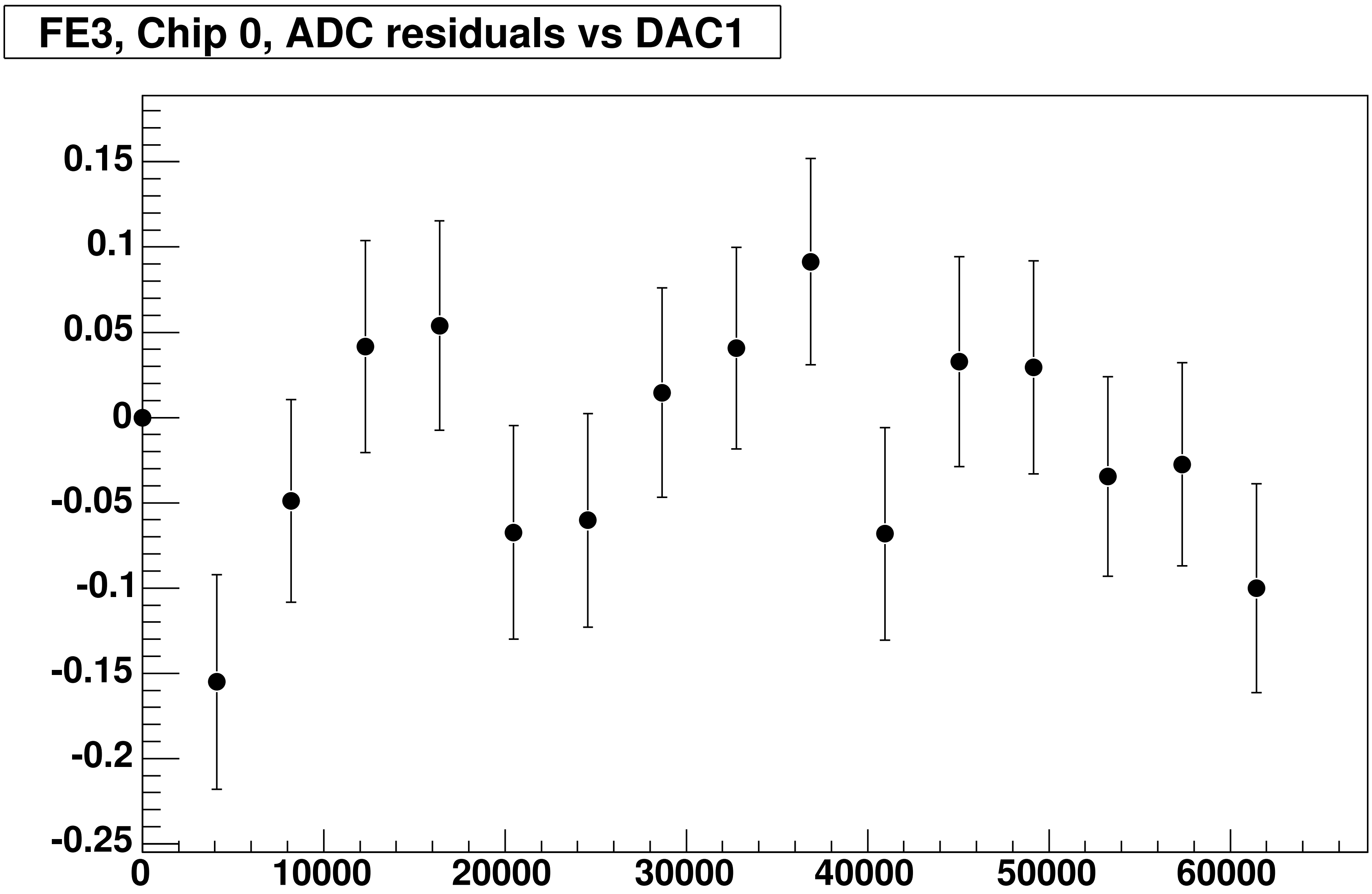

FE3, Chip 0, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

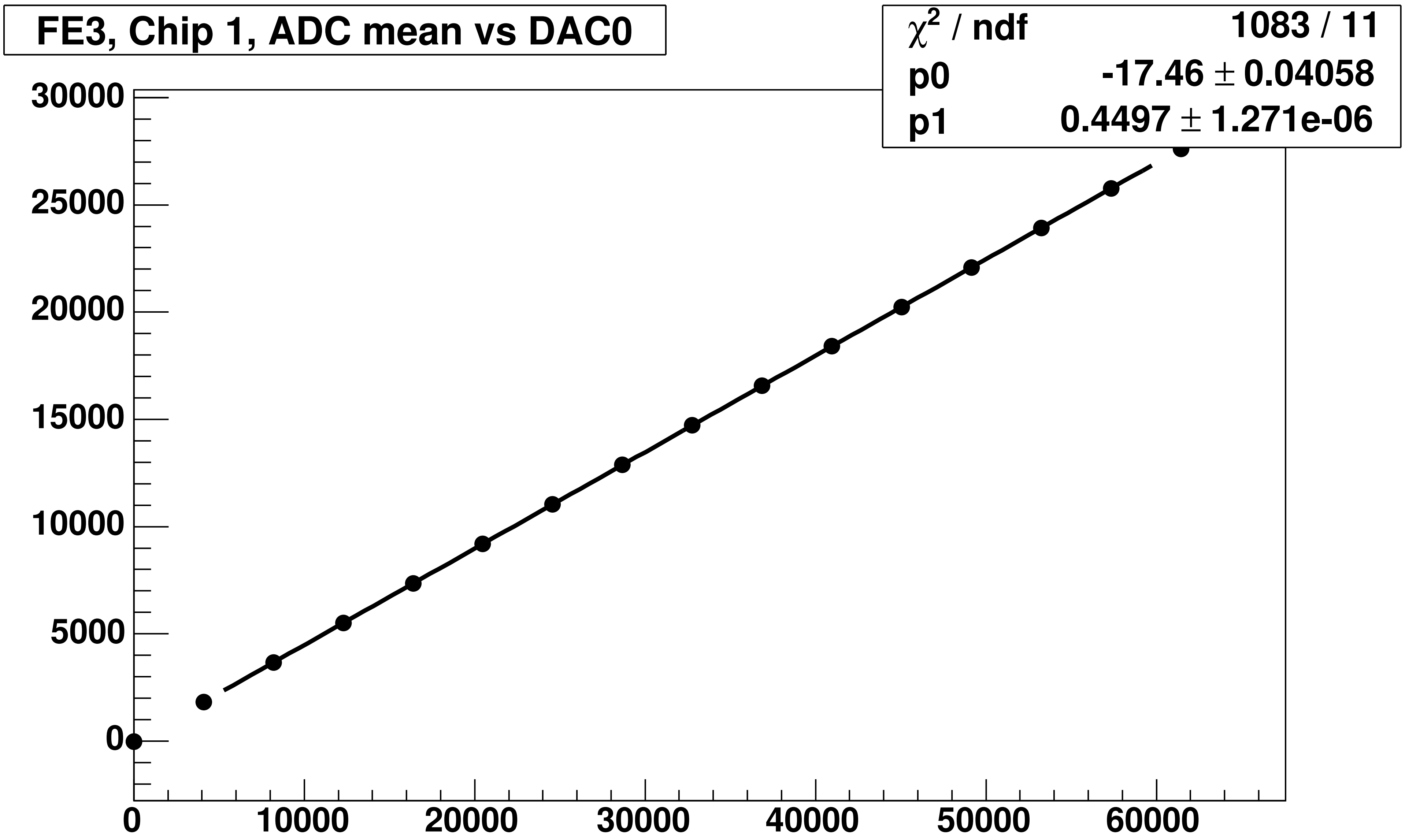


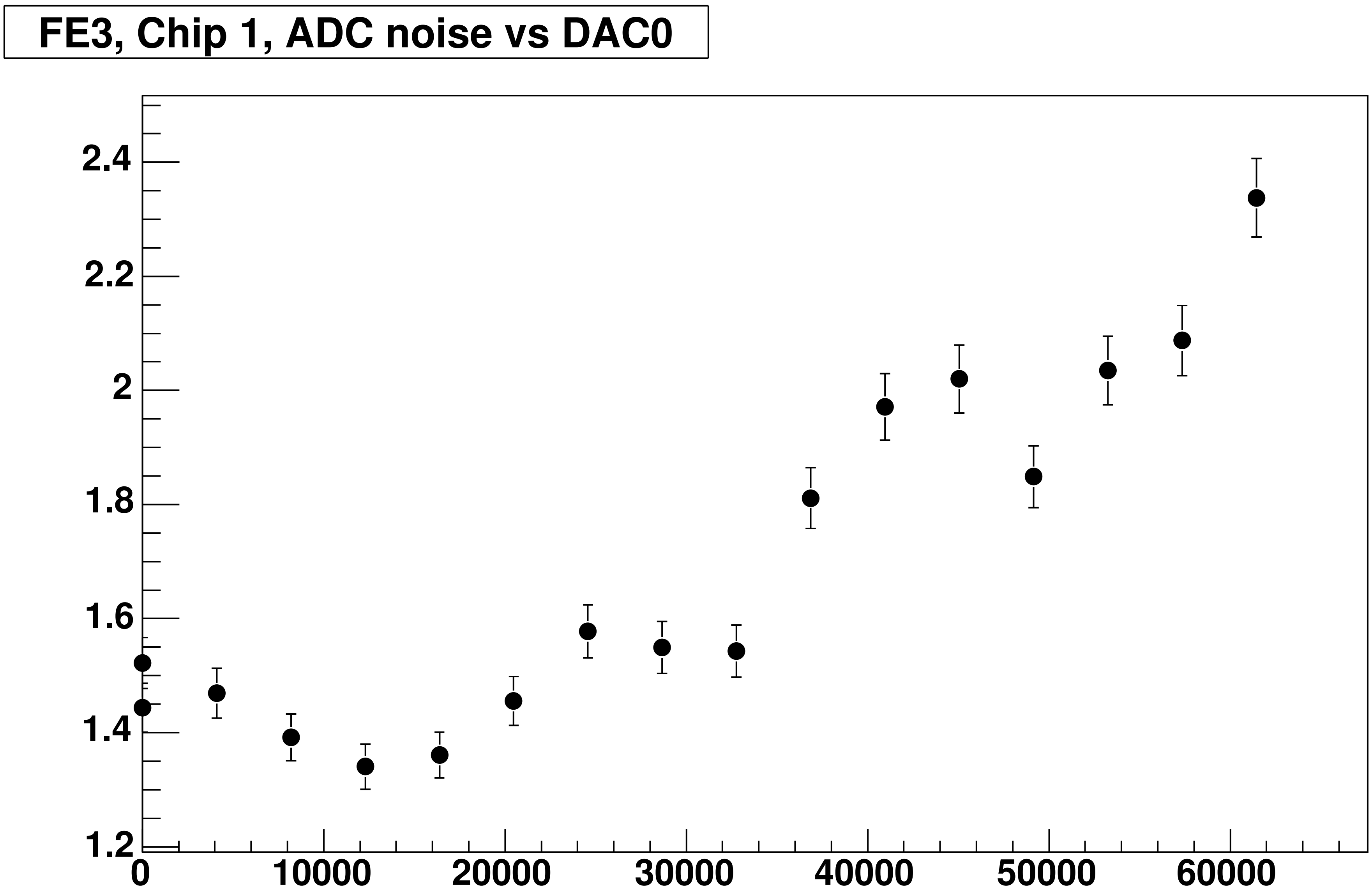
FE3, Chip 0, ADC mean vs DAC1
χ^2 / ndf 9.062 / 11
p0 -13.15 ± 0.03982
p1 -1.743e-06 ± 1.095e-06
-13.05
-13.1
-13.15
-13.2
-13.25
-13.3
-13.35
-13.4
-13.45
0
10000
20000
30000
40000
50000
60000

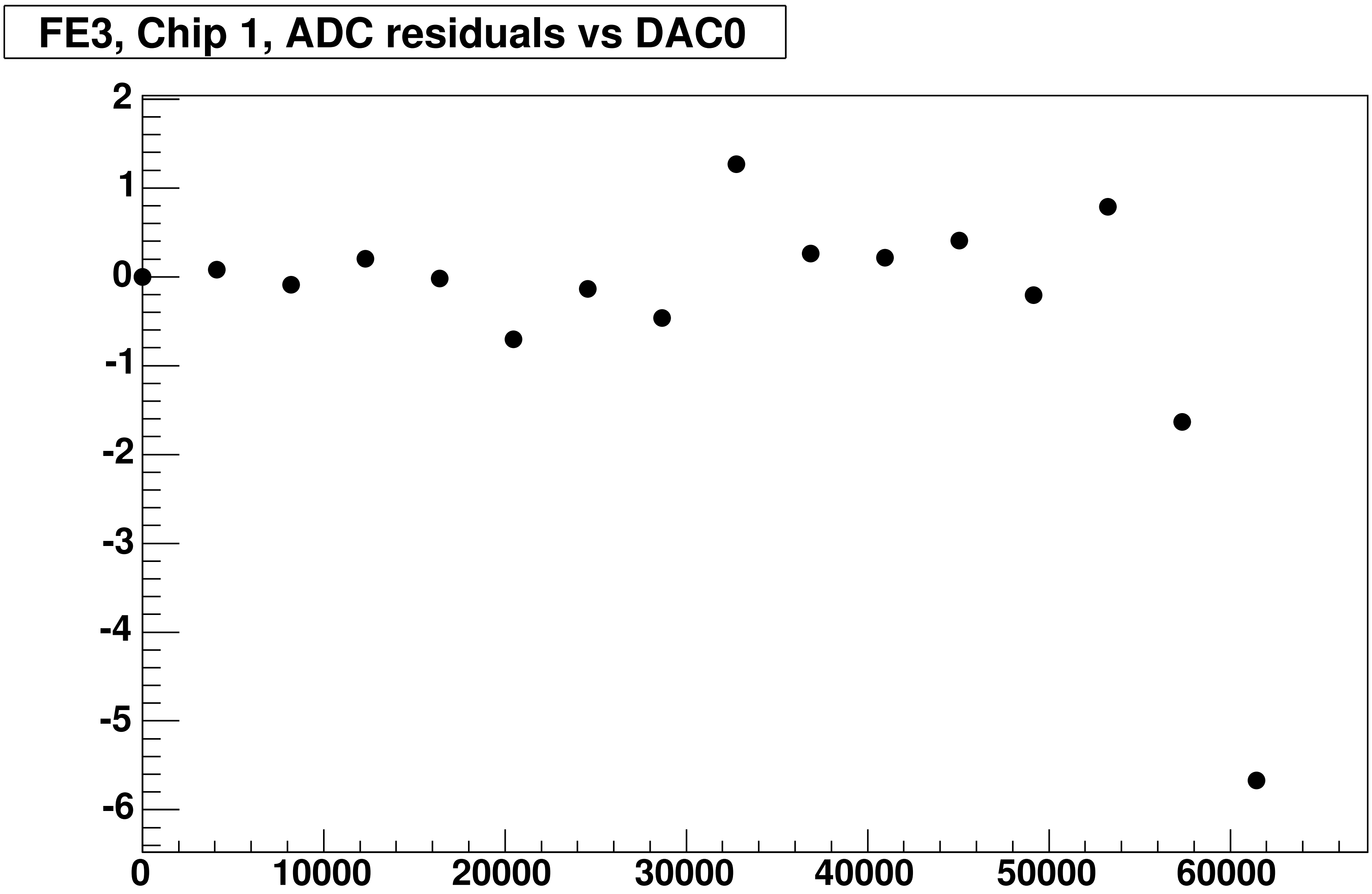
FE3, Chip 0, ADC noise vs DAC1

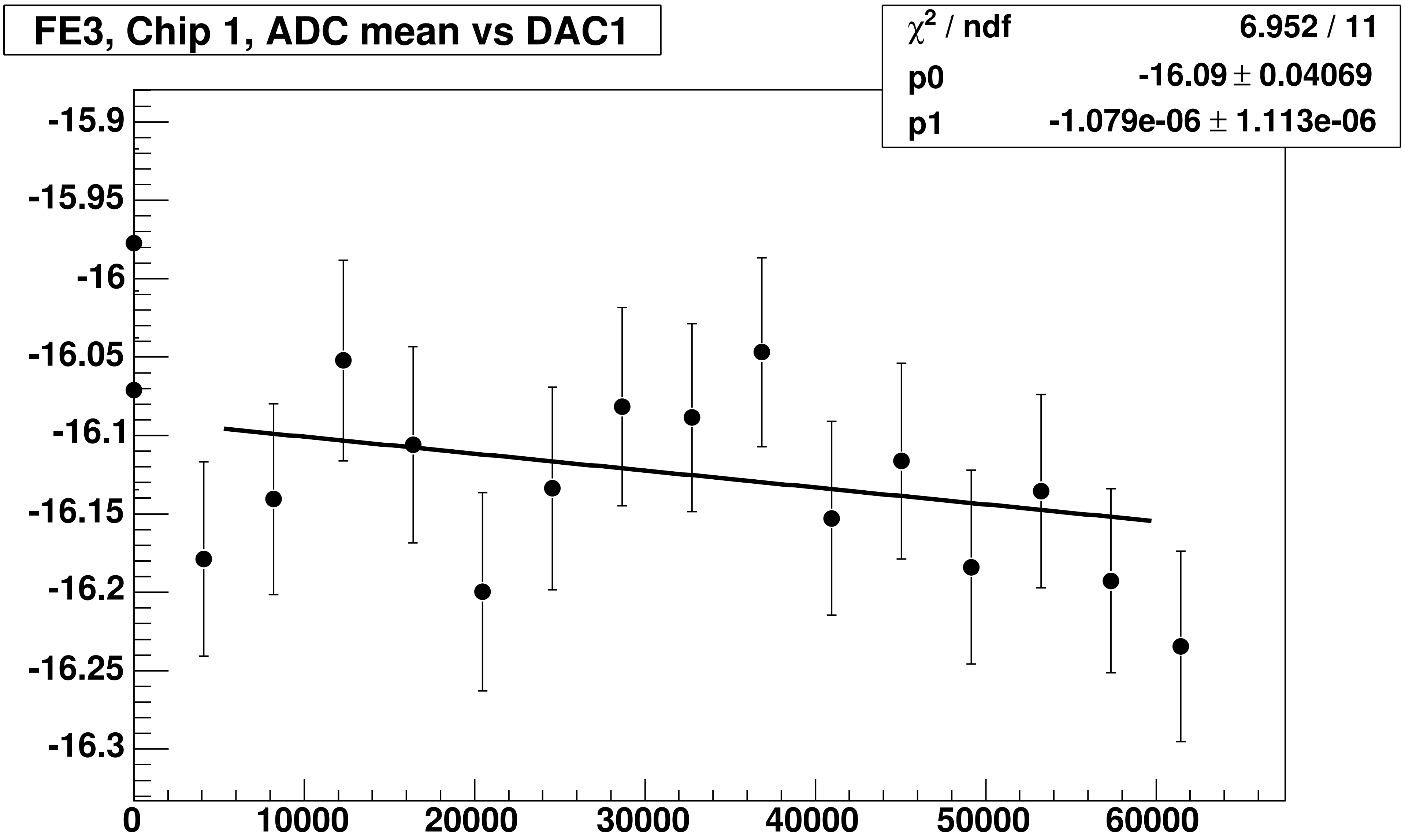



FE3, Chip 0, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

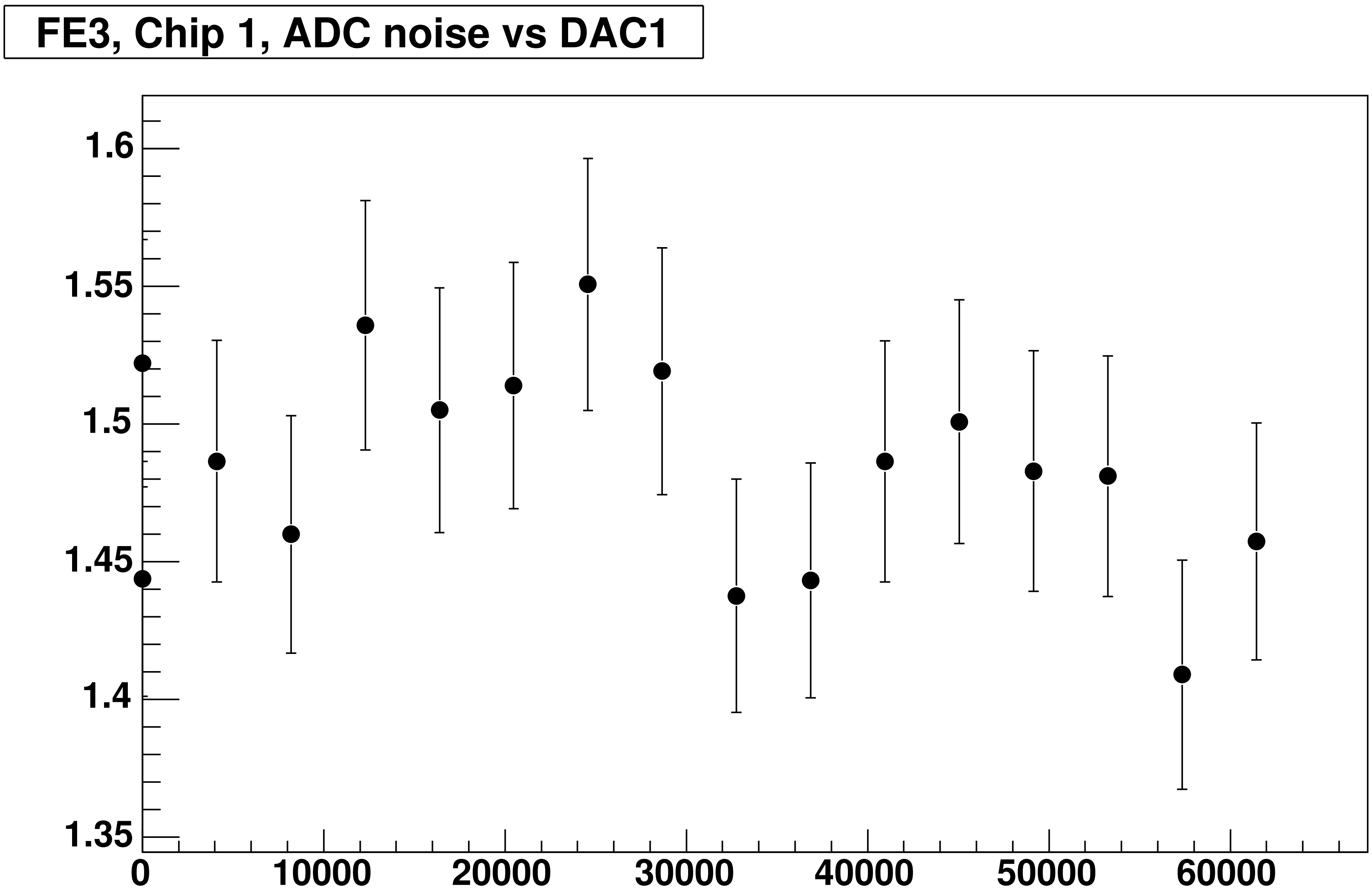

FE3, Chip 1, ADC mean vs DAC0
χ2 / ndf 1083 / 11
p0 -17.46 ± 0.04058
p1 0.4497 ± 1.271e-06
30000
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

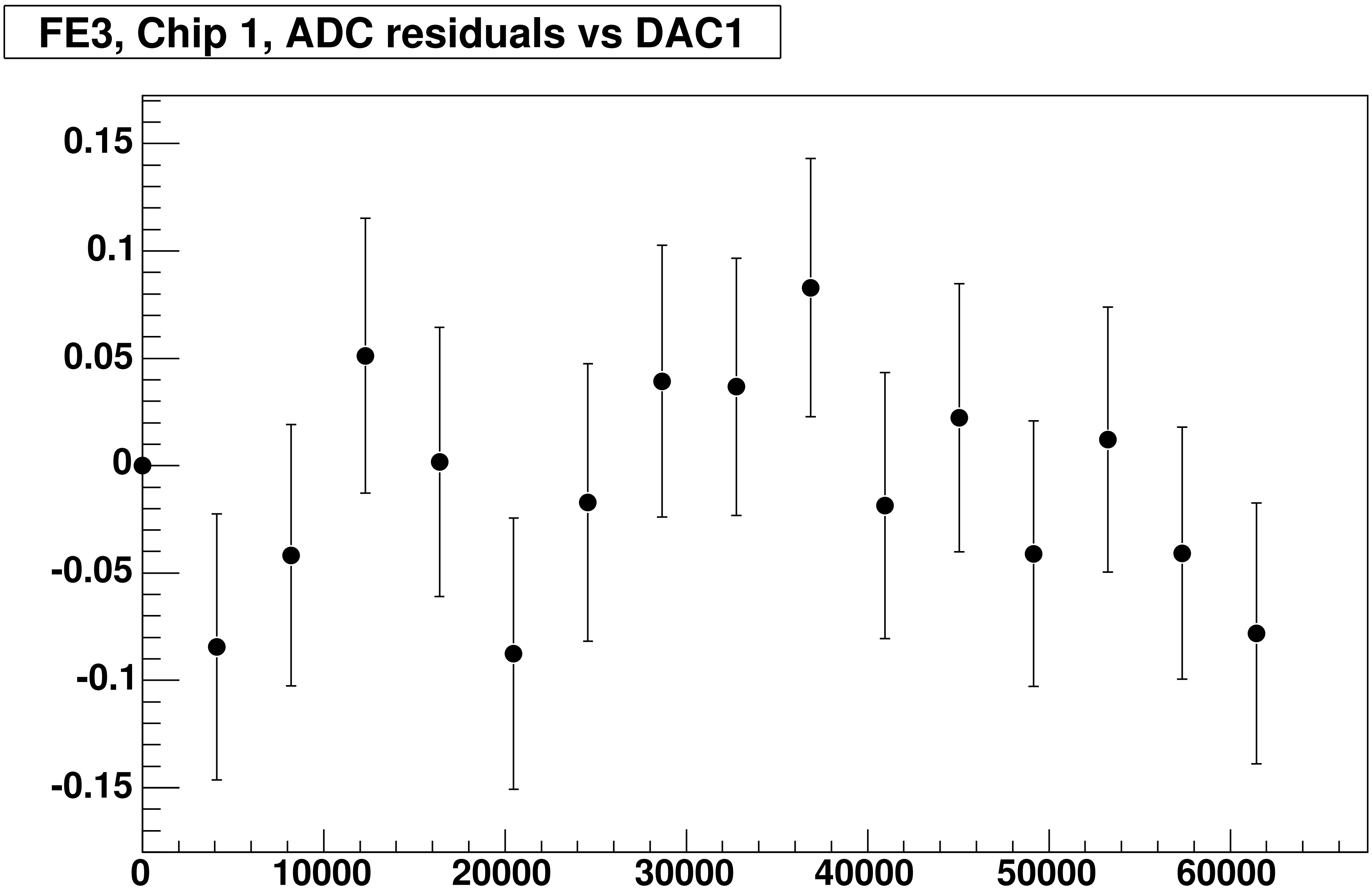

FE3, Chip 1, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

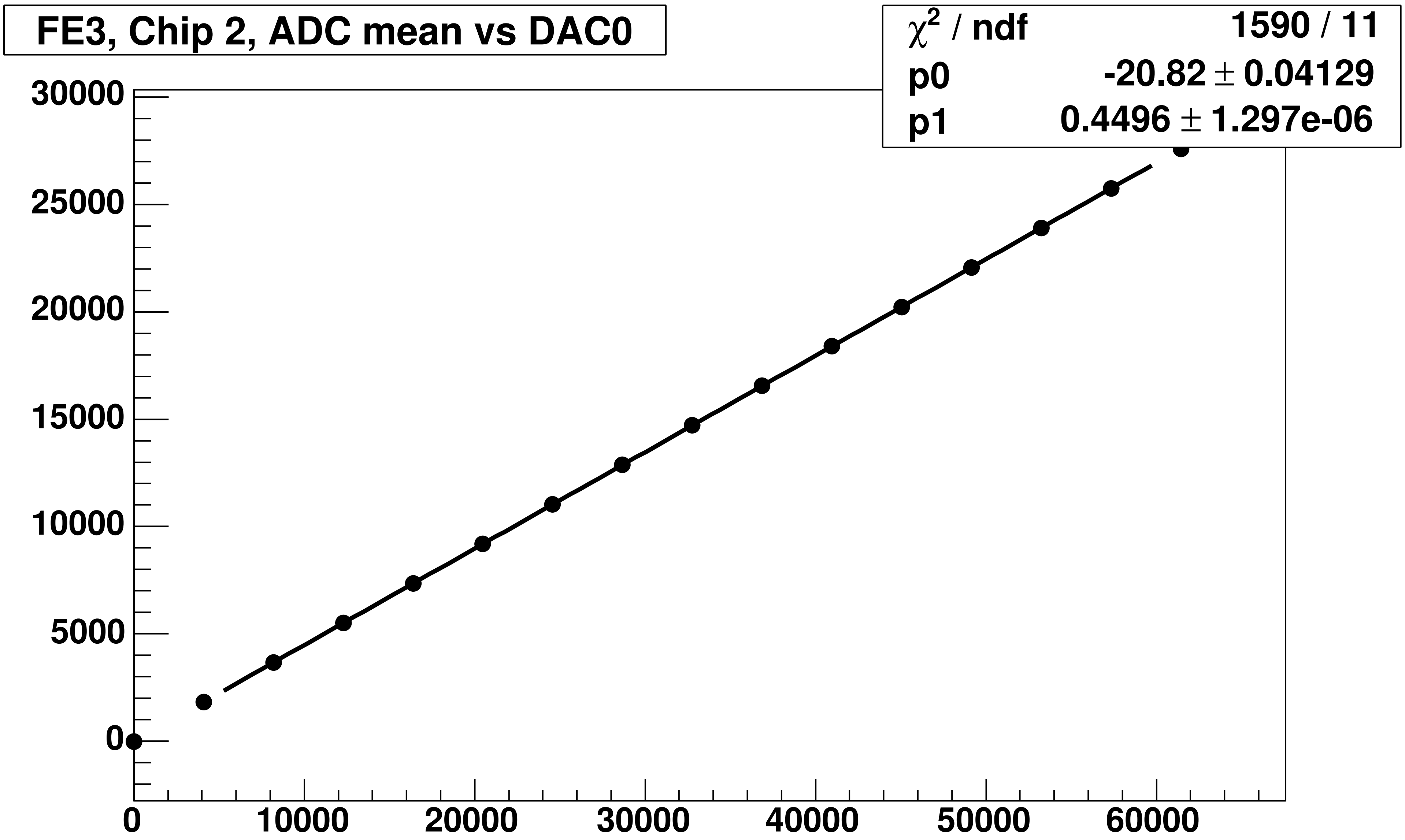

FE3, Chip 1, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

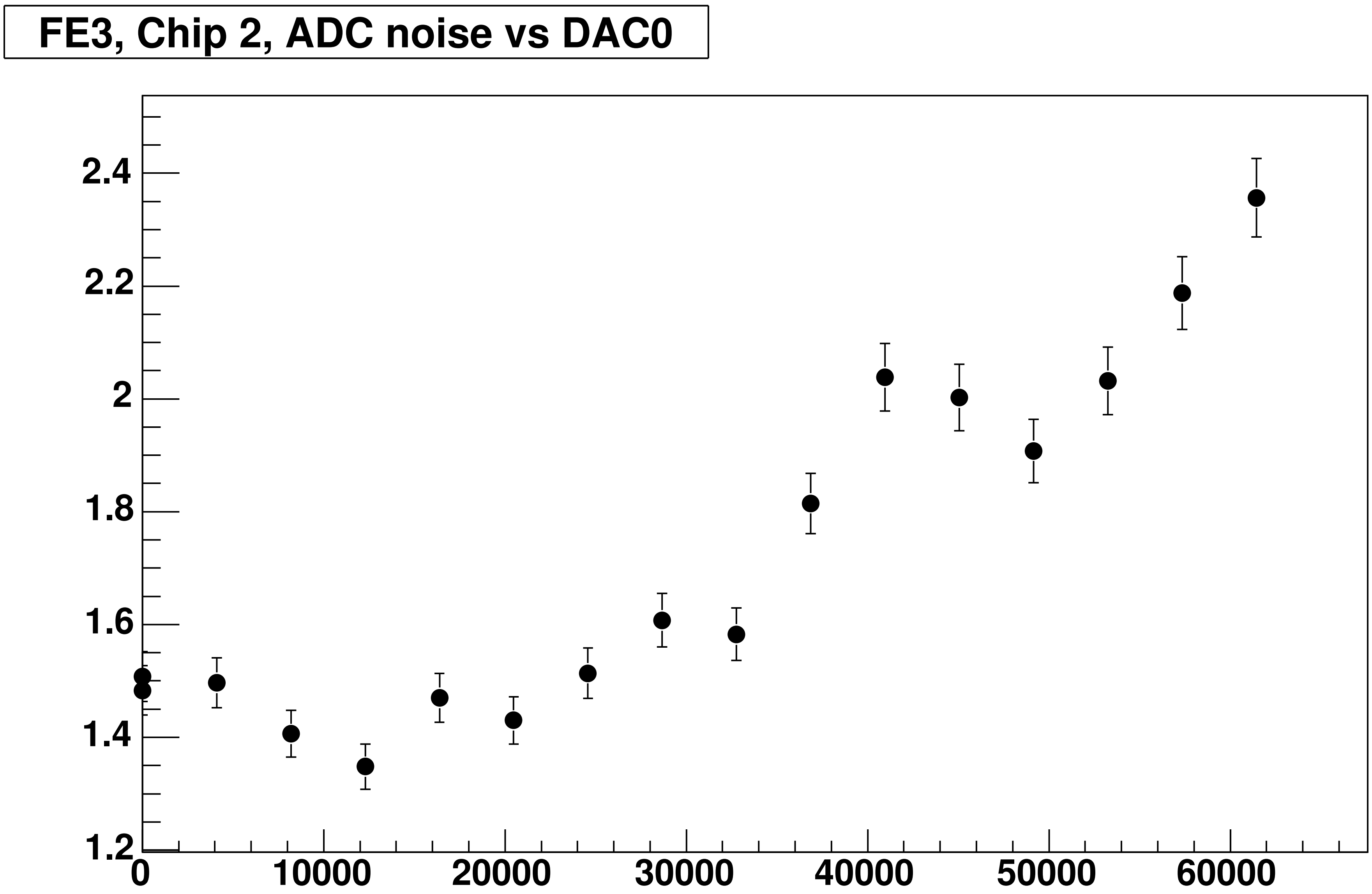


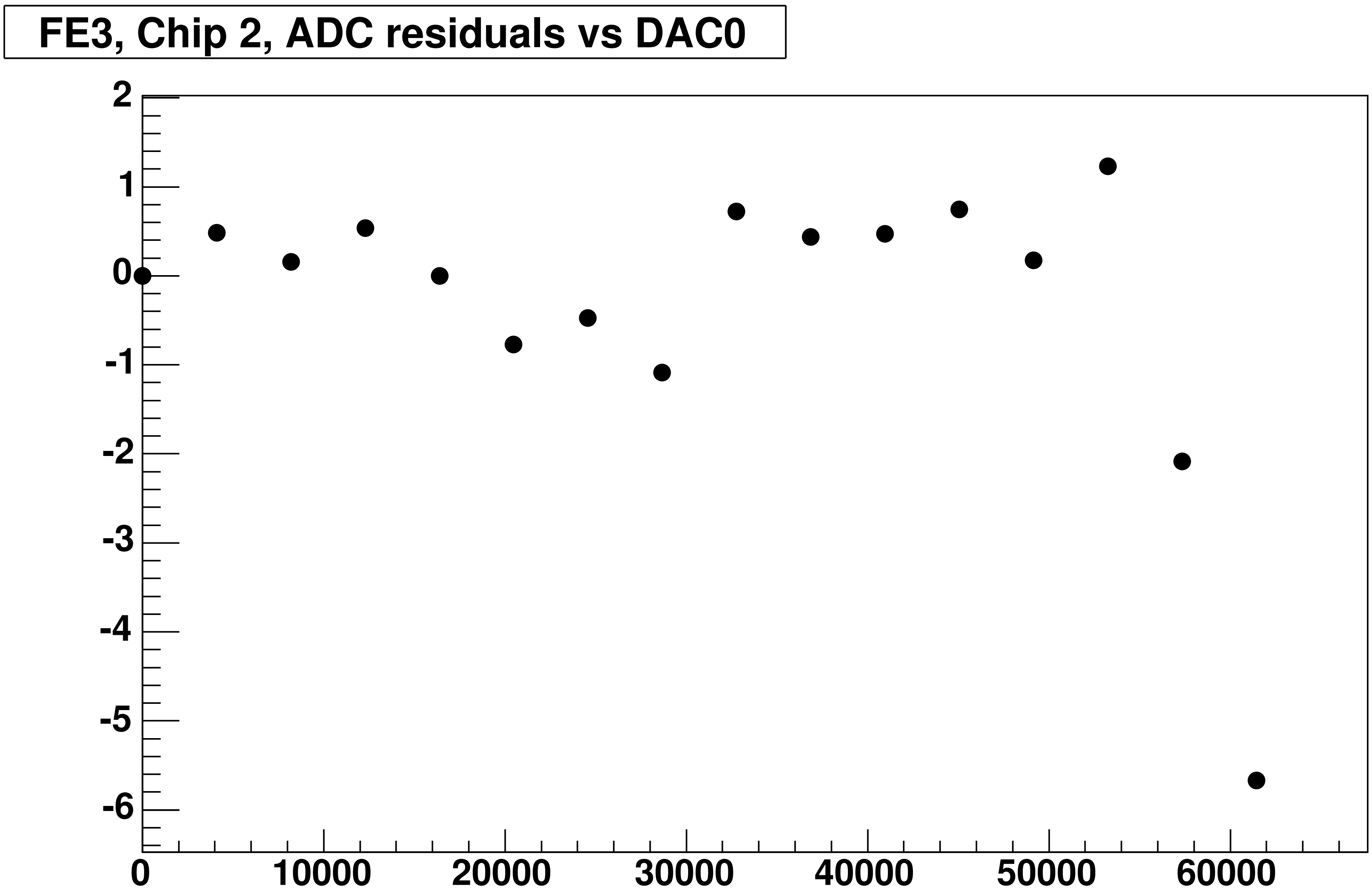
FE3, Chip 1, ADC mean vs DAC1
χ^2 / ndf 6.952 / 11
p0 -16.09 ± 0.04069
p1 -1.079e-06 ± 1.113e-06
-15.9
-15.95
-16
-16.05
-16.1
-16.15
-16.2
-16.25
-16.3
0
10000
20000
30000
40000
50000
60000

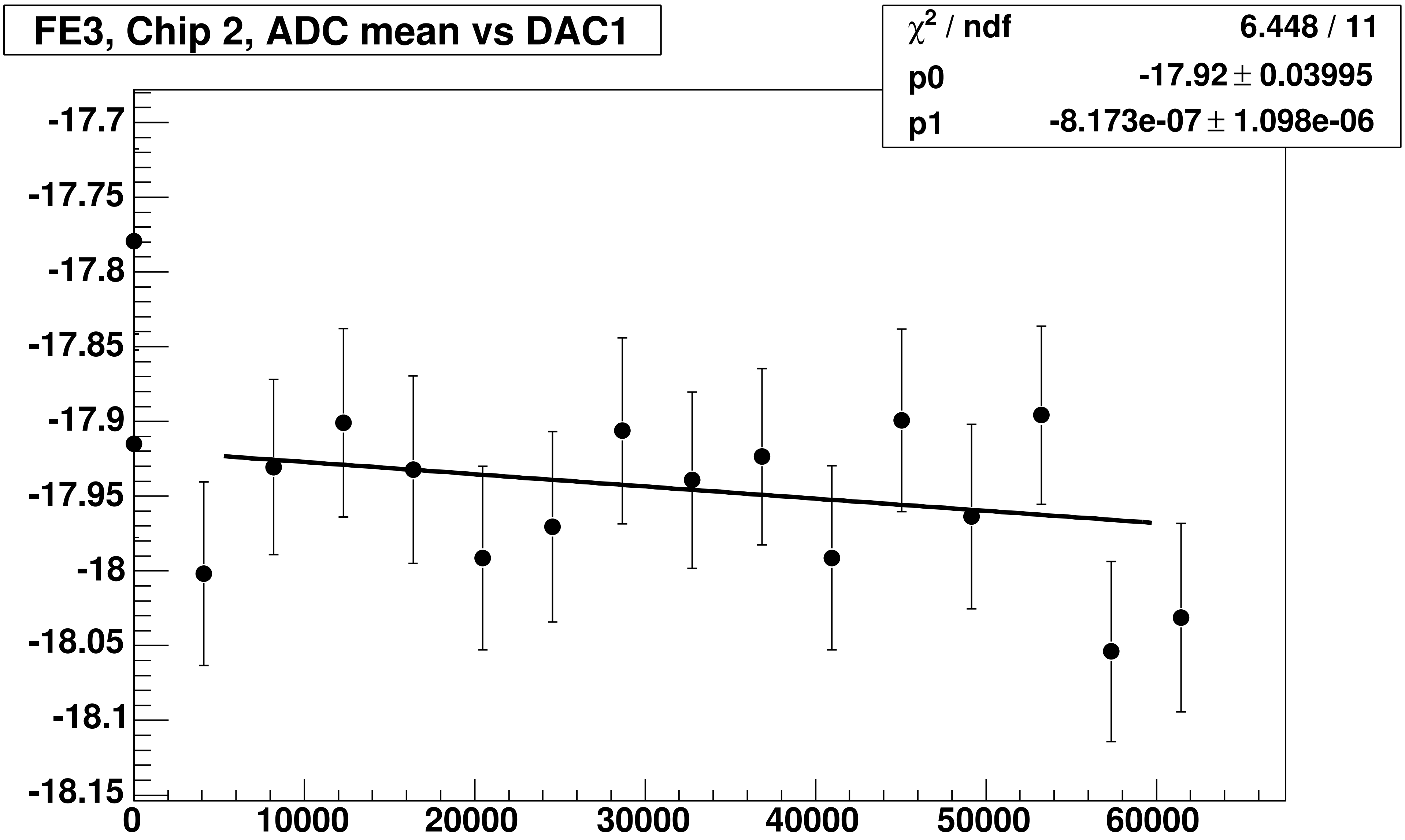

FE3, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

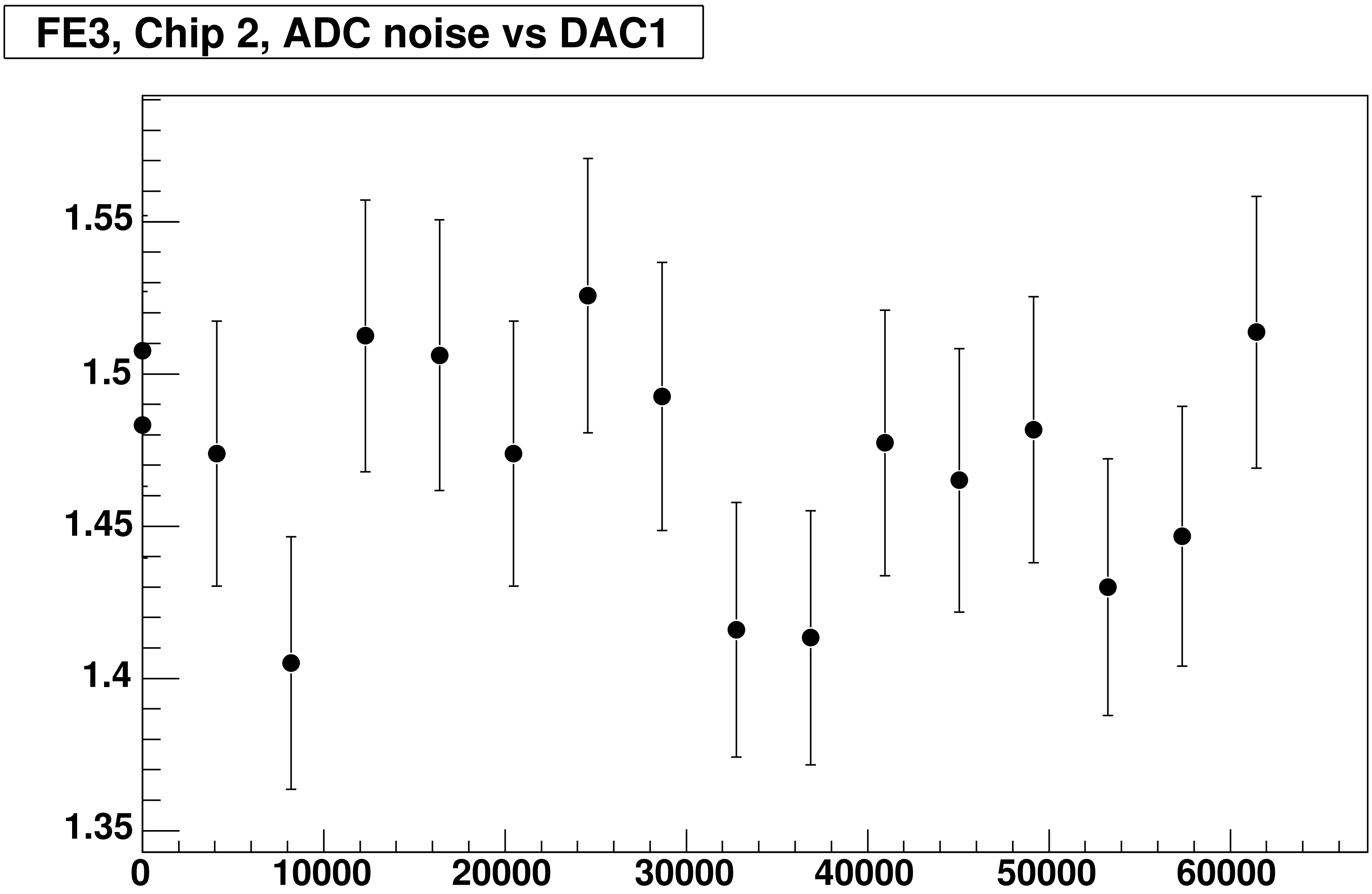

FE3, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1590 / 11
p0 -20.82 ± 0.04129
p1 0.4496 ± 1.297e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

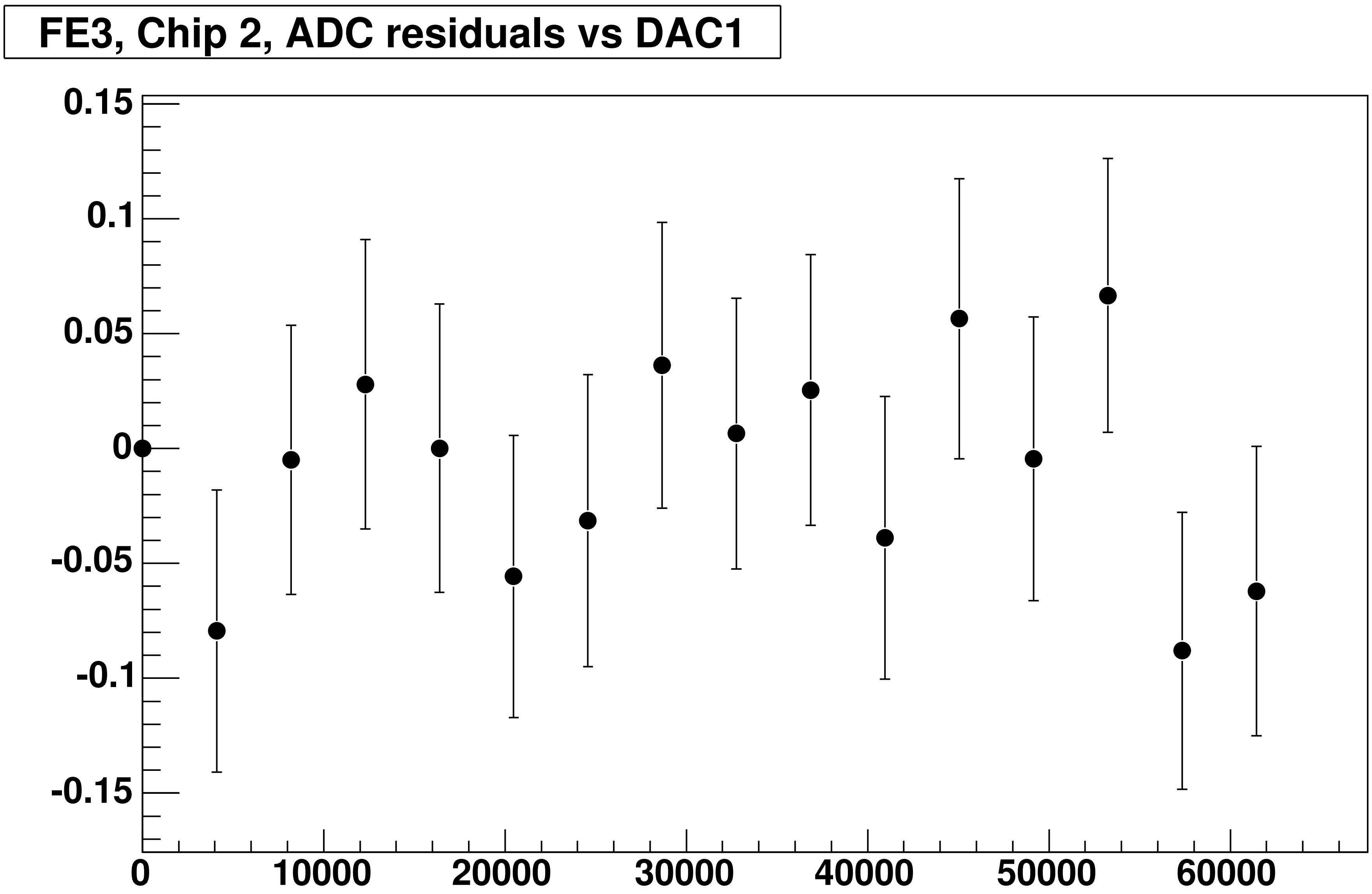

FE3, Chip 2, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



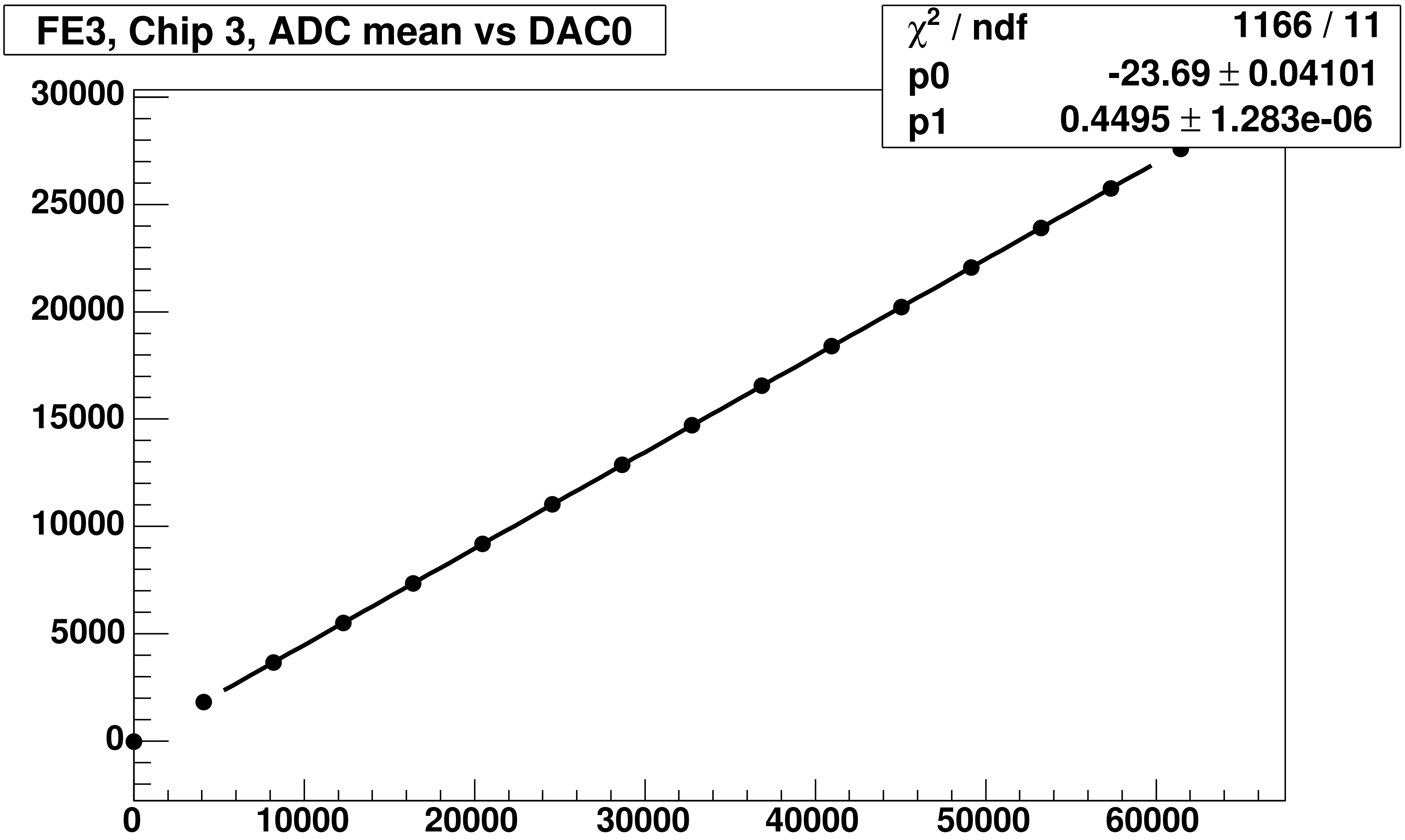
FE3, Chip 2, ADC mean vs DAC1
χ^2 / ndf 6.448 / 11
p0 -17.92 ± 0.03995
p1 -8.173e-07 ± 1.098e-06
-17.7
-17.75
-17.8
-17.85
-17.9
-17.95
-18
-18.05
-18.1
-18.15
0
10000
20000
30000
40000
50000
60000



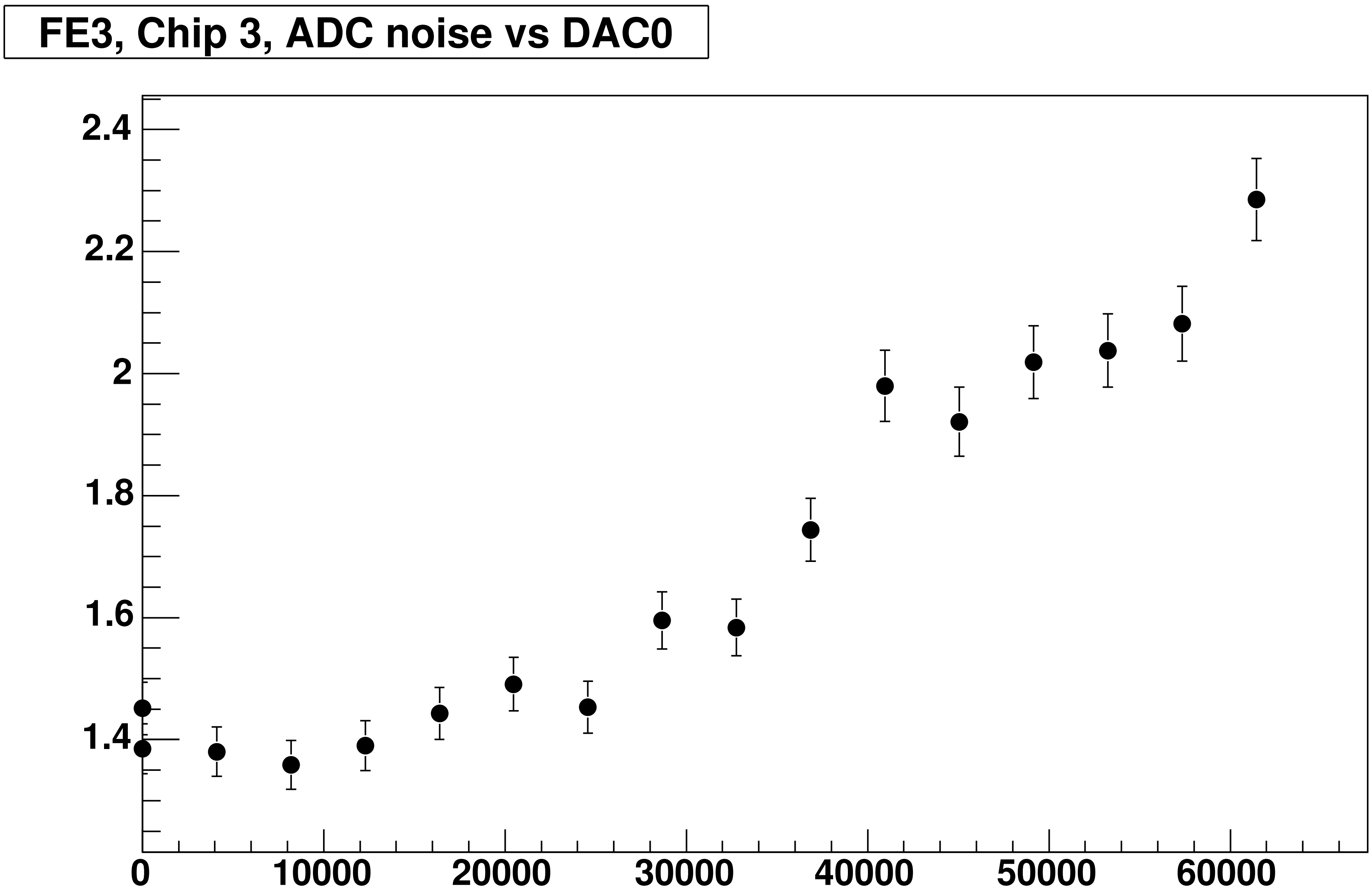
FE3, Chip 2, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

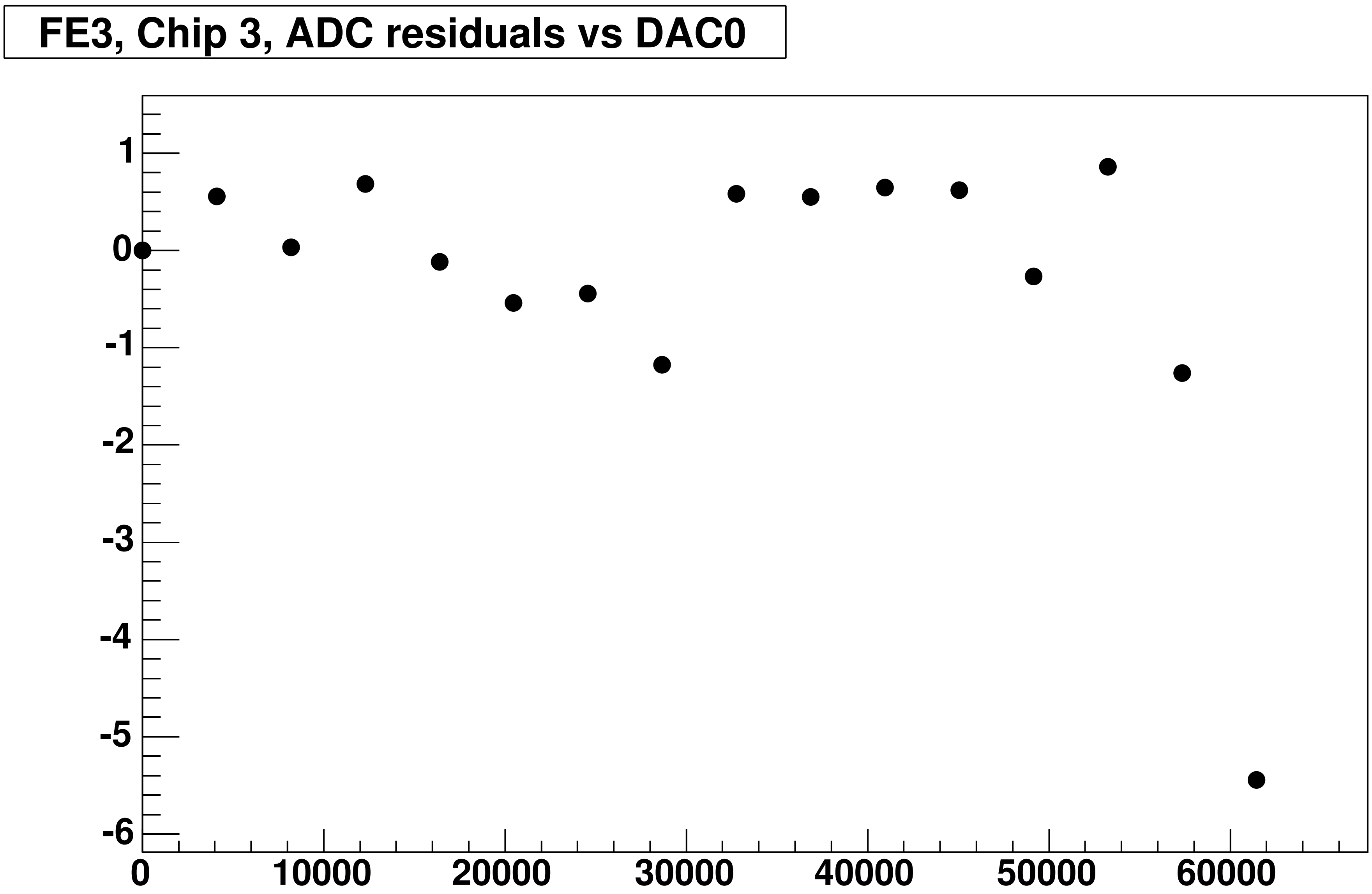


FE3, Chip 2, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

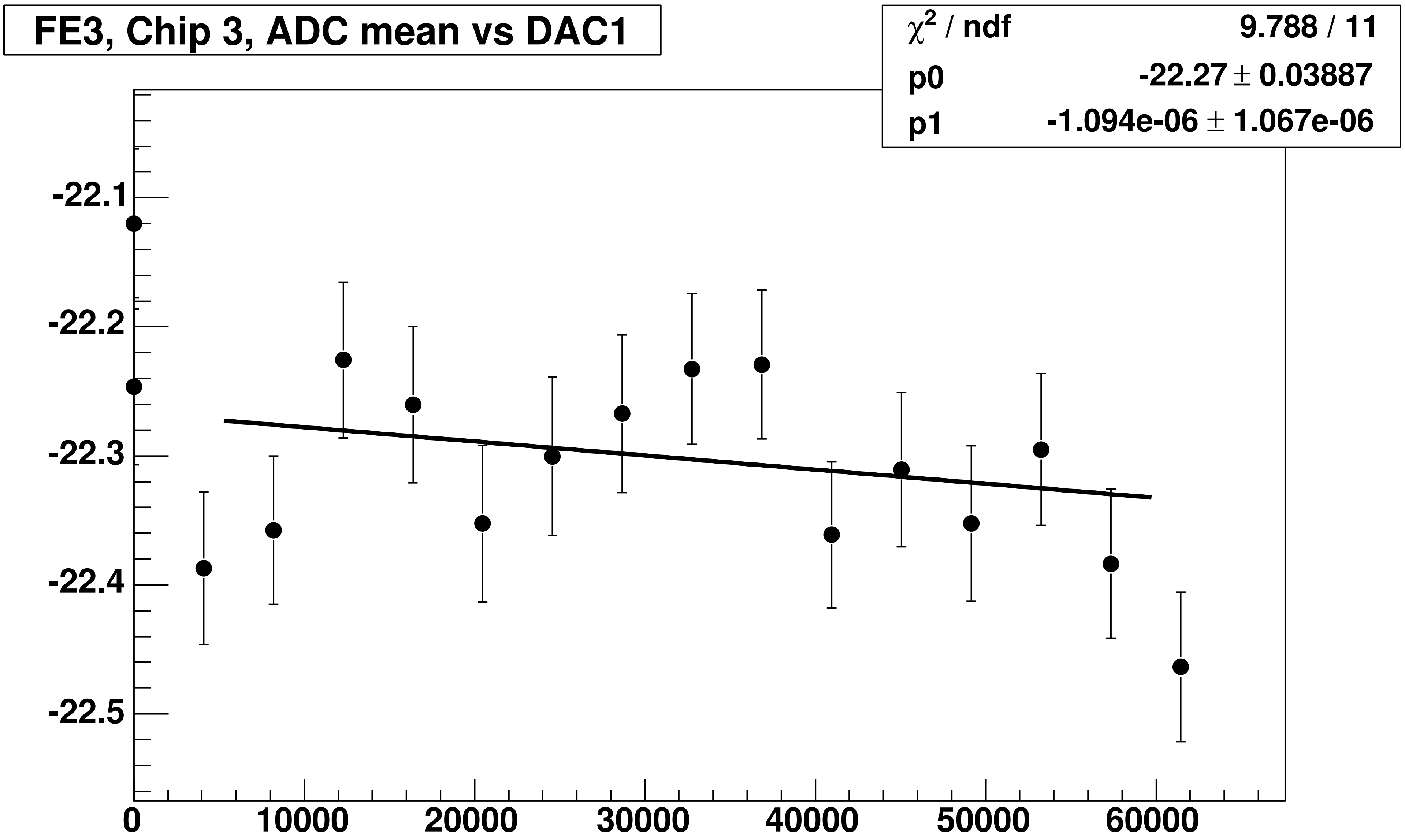


FE3, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1166 / 11
p0 -23.69 ± 0.04101
p1 0.4495 ± 1.283e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

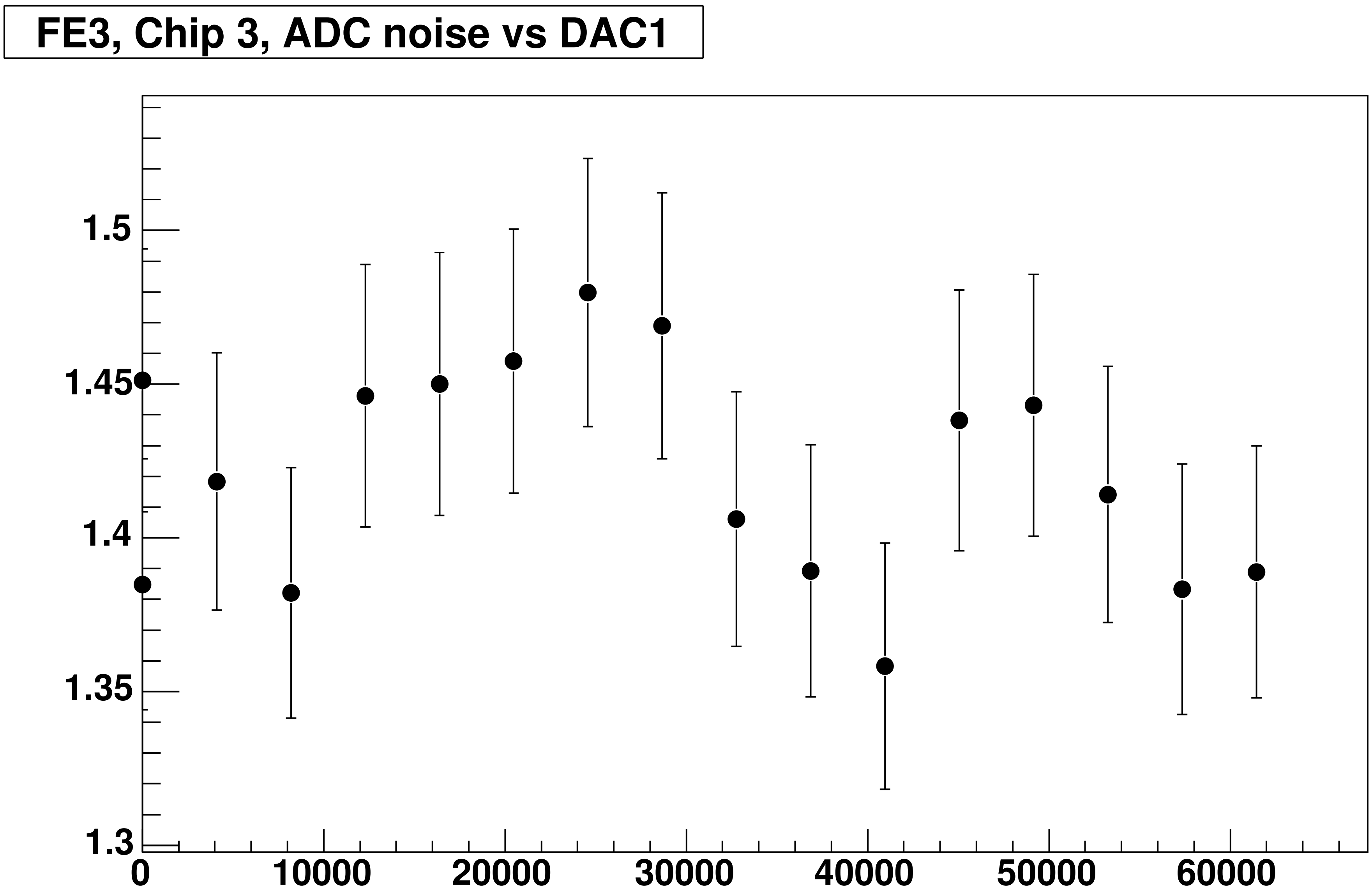

FE3, Chip 3, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



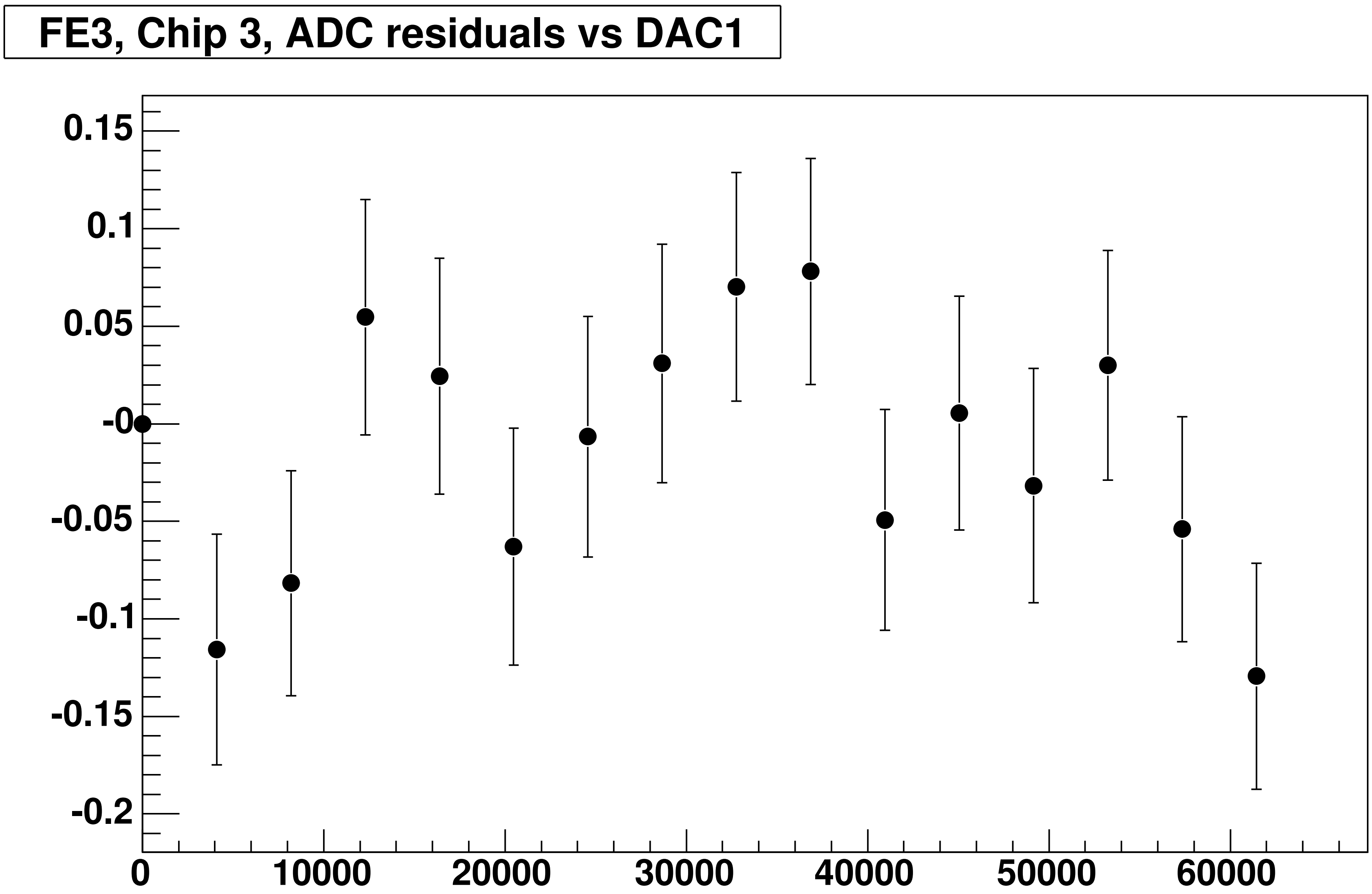
FE3, Chip 3, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

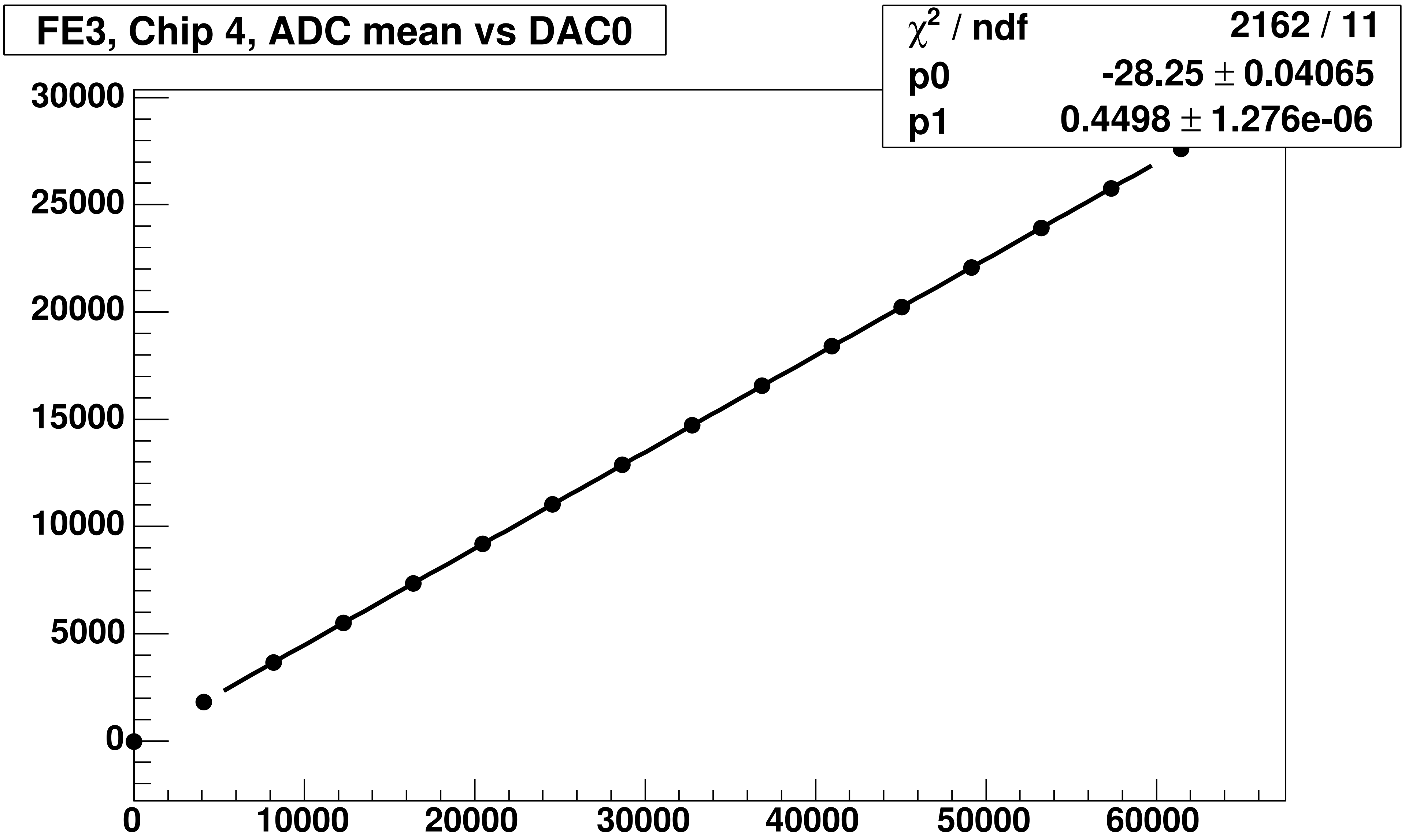


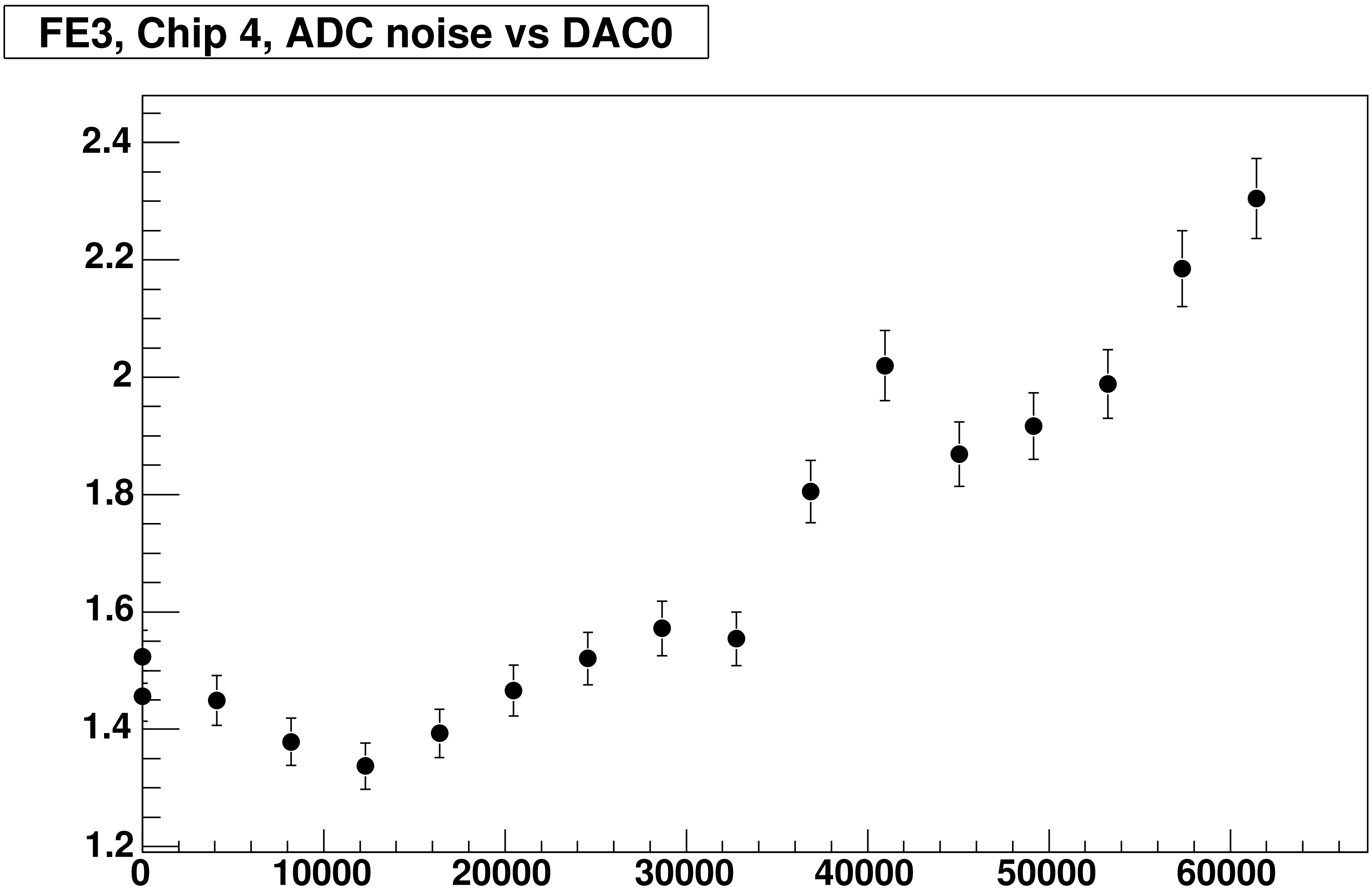
FE3, Chip 3, ADC mean vs DAC1
χ^2 / ndf 9.788 / 11
p0 -22.27 ± 0.03887
p1 -1.094e-06 ± 1.067e-06
-22.1
-22.2
-22.3
-22.4
-22.5
0
10000
20000
30000
40000
50000
60000



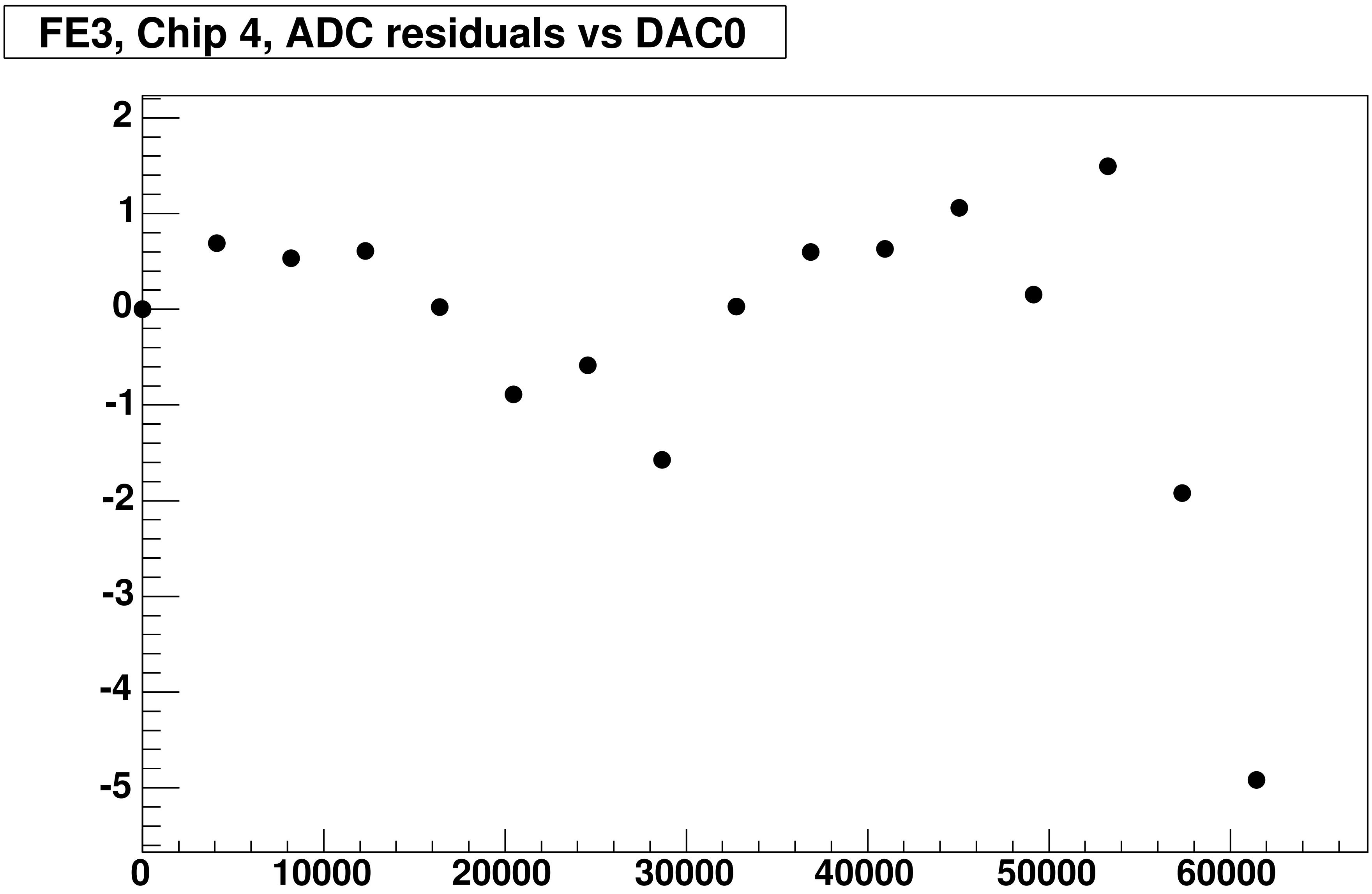
FE3, Chip 3, ADC noise vs DAC1
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

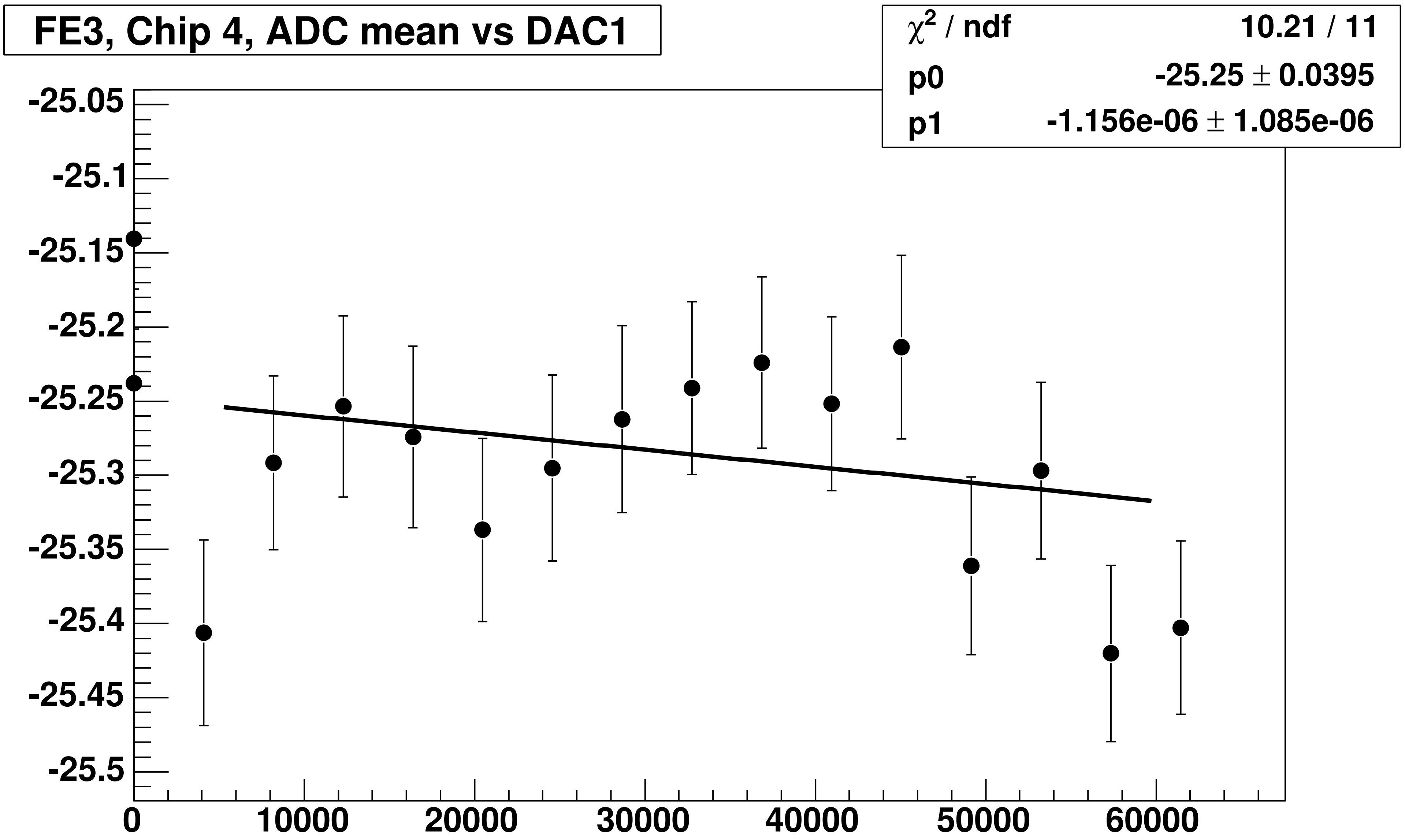

FE3, Chip 3, ADC residuals vs DAC1
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE3, Chip 4, ADC mean vs DAC0
χ2 / ndf 2162 / 11
p0 -28.25 ± 0.04065
p1 0.4498 ± 1.276e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

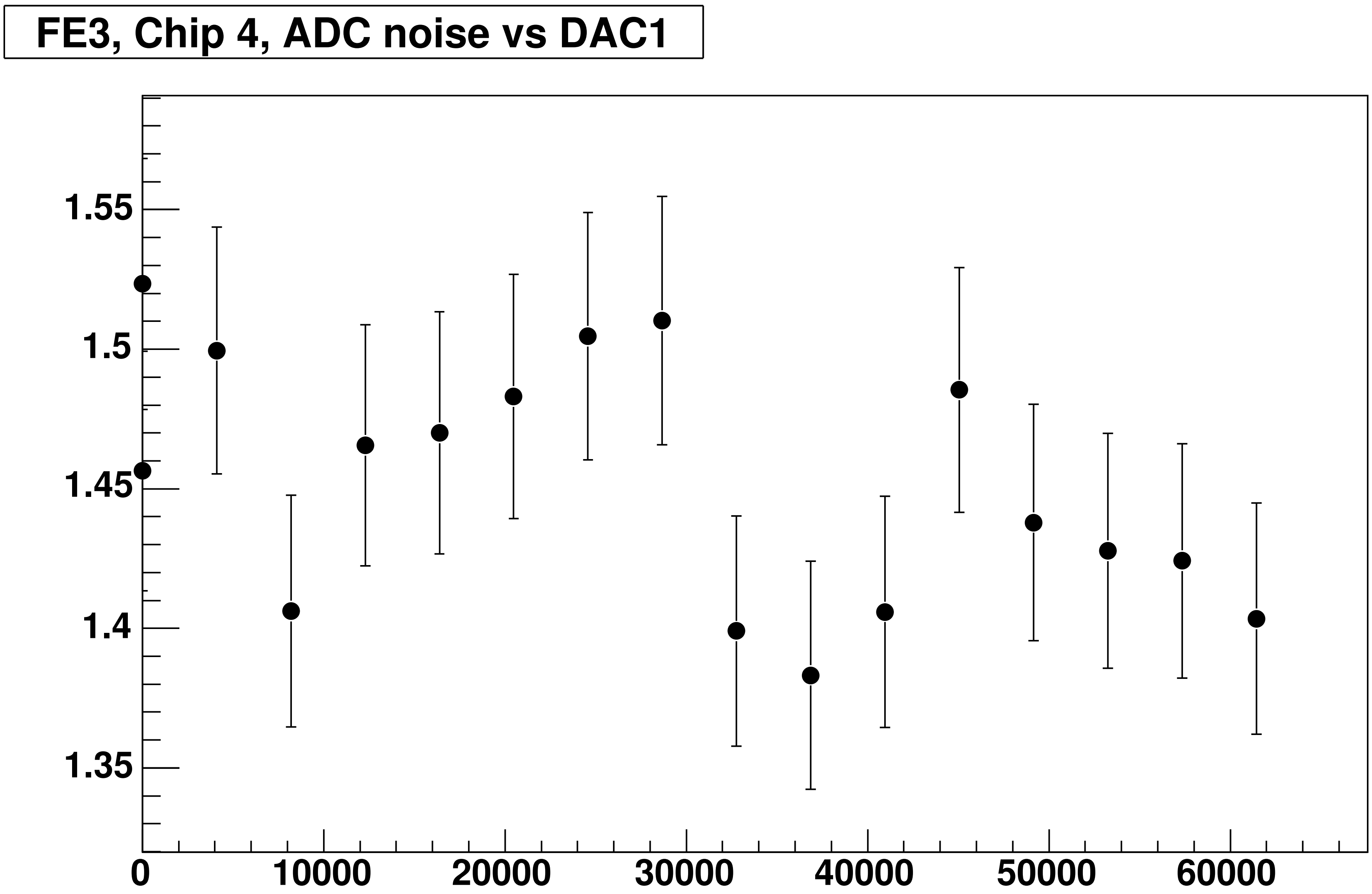


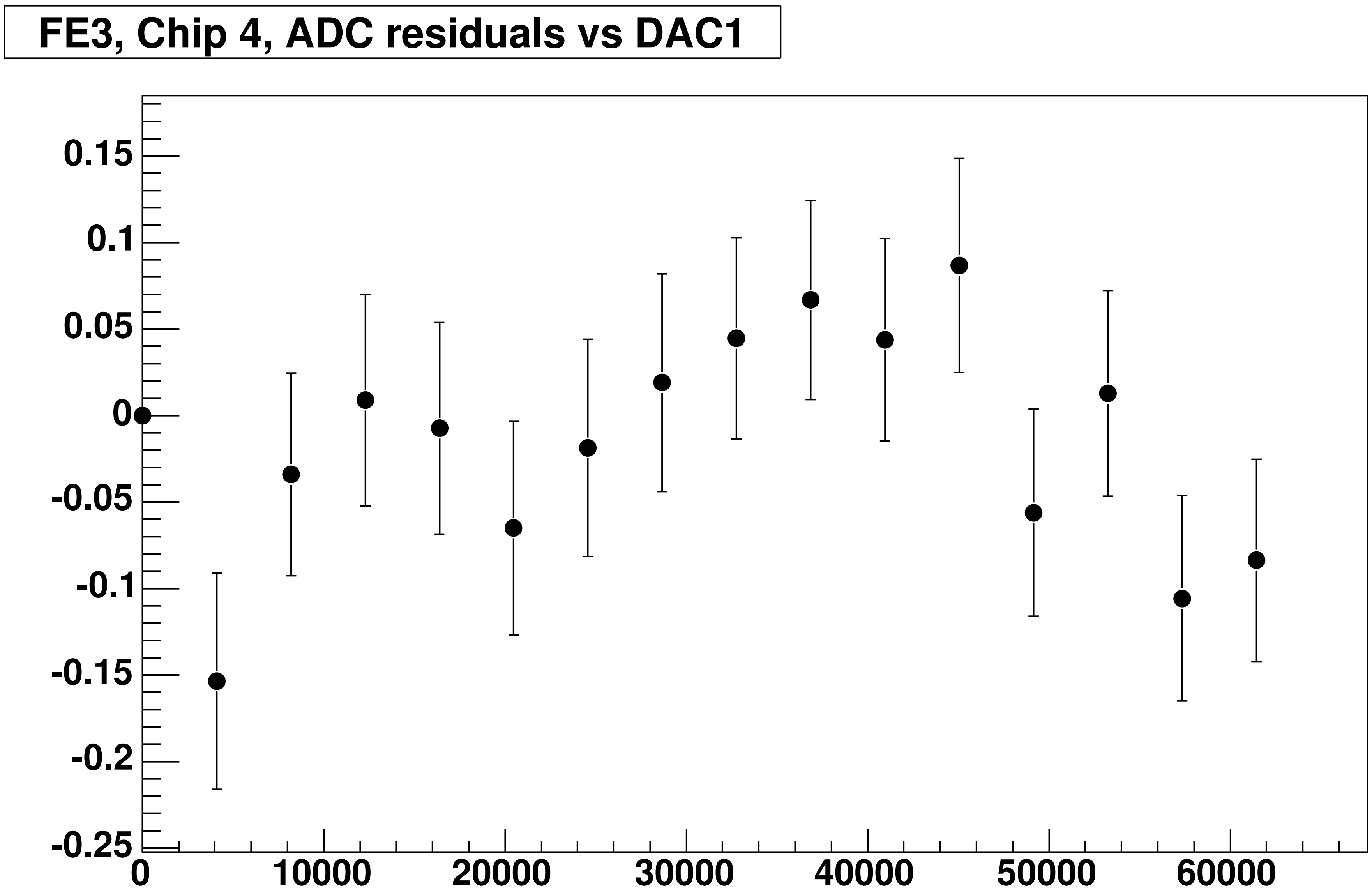
FE3, Chip 4, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

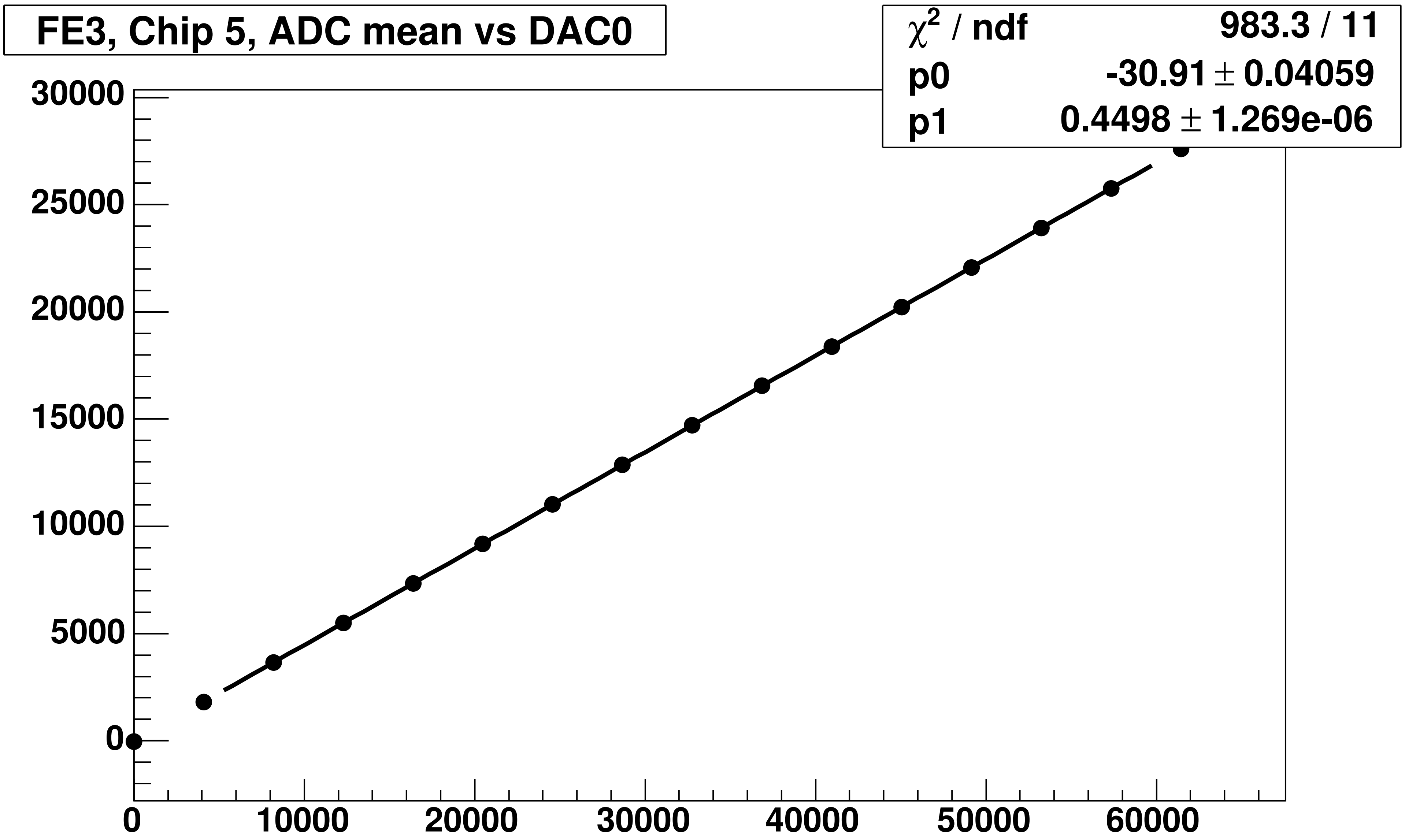

FE3, Chip 4, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



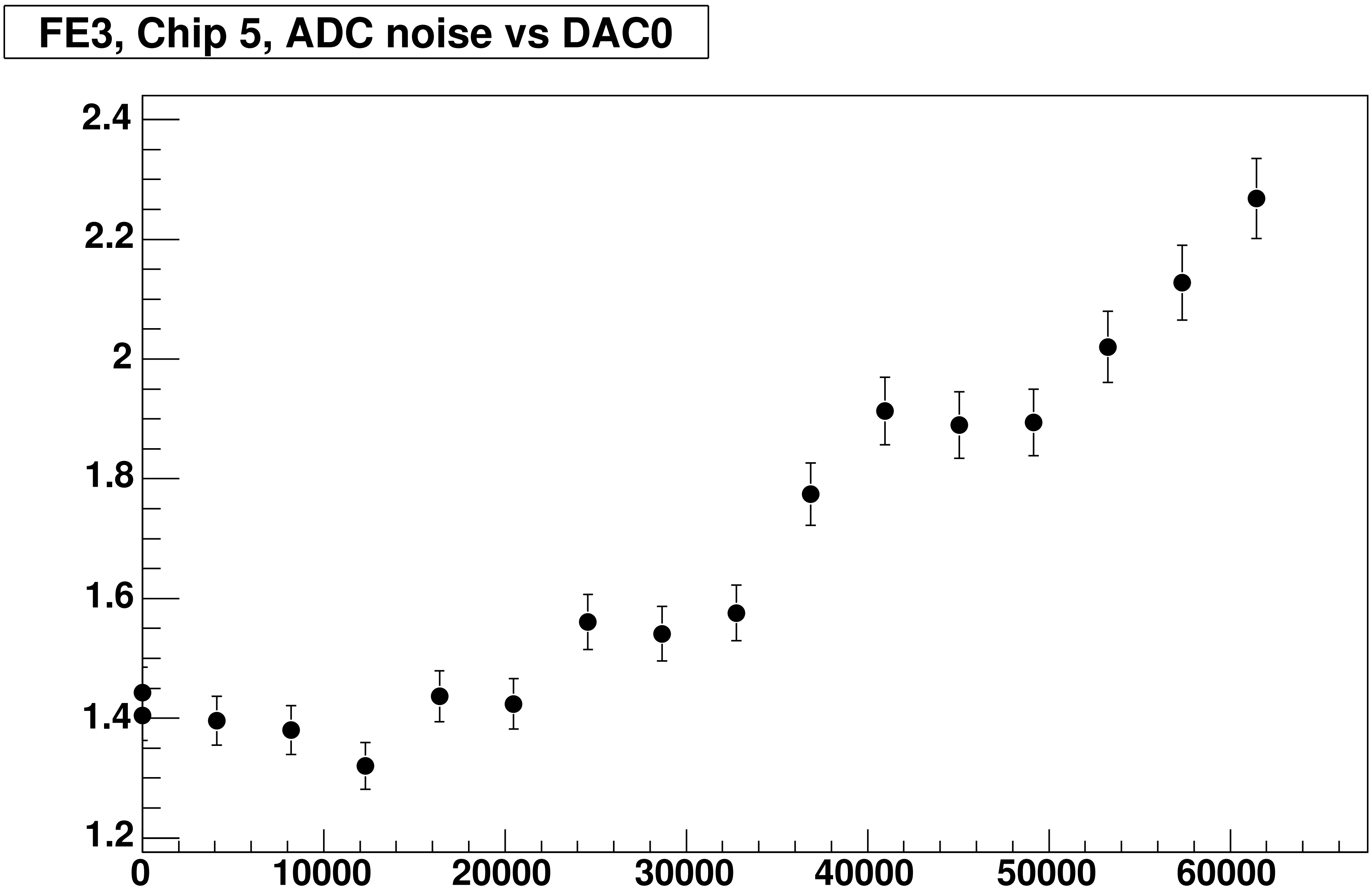
FE3, Chip 4, ADC mean vs DAC1
χ^2 / ndf 10.21 / 11
p0 -25.25 ± 0.0395
p1 -1.156e-06 ± 1.085e-06
-25.05
-25.1
-25.15
-25.2
-25.25
-25.3
-25.35
-25.4
-25.45
-25.5
0
10000
20000
30000
40000
50000
60000

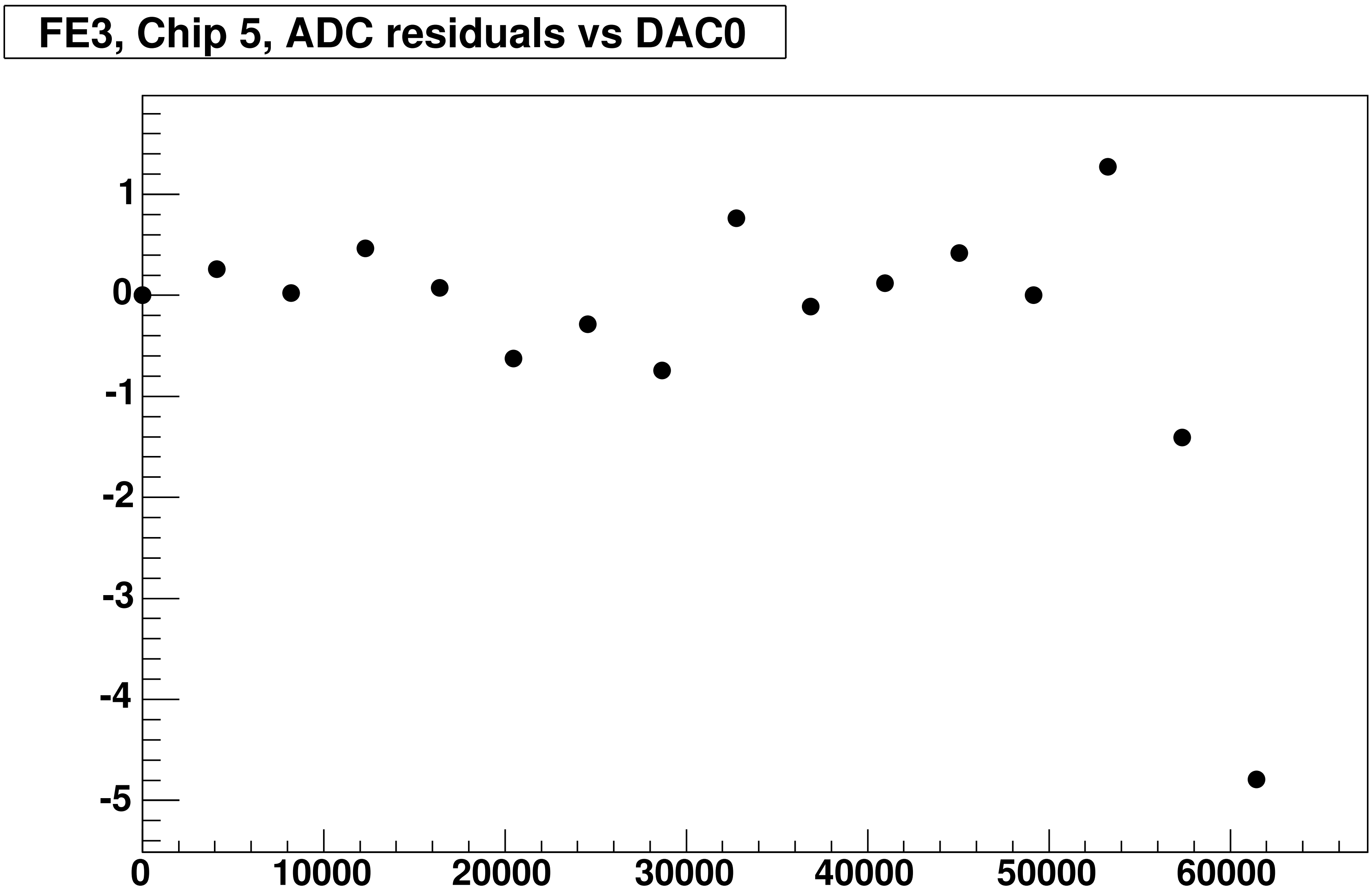

FE3, Chip 4, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE3, Chip 4, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

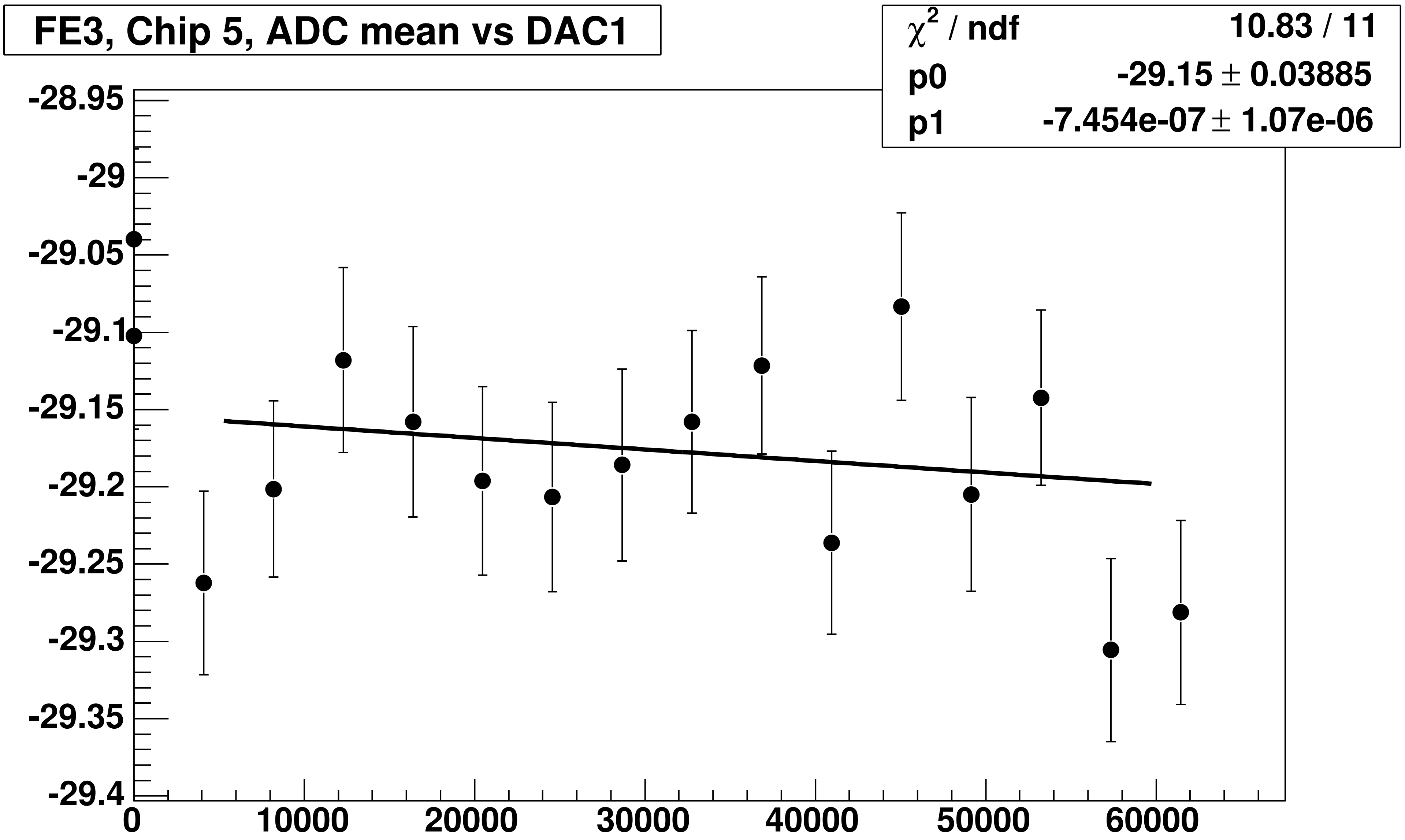


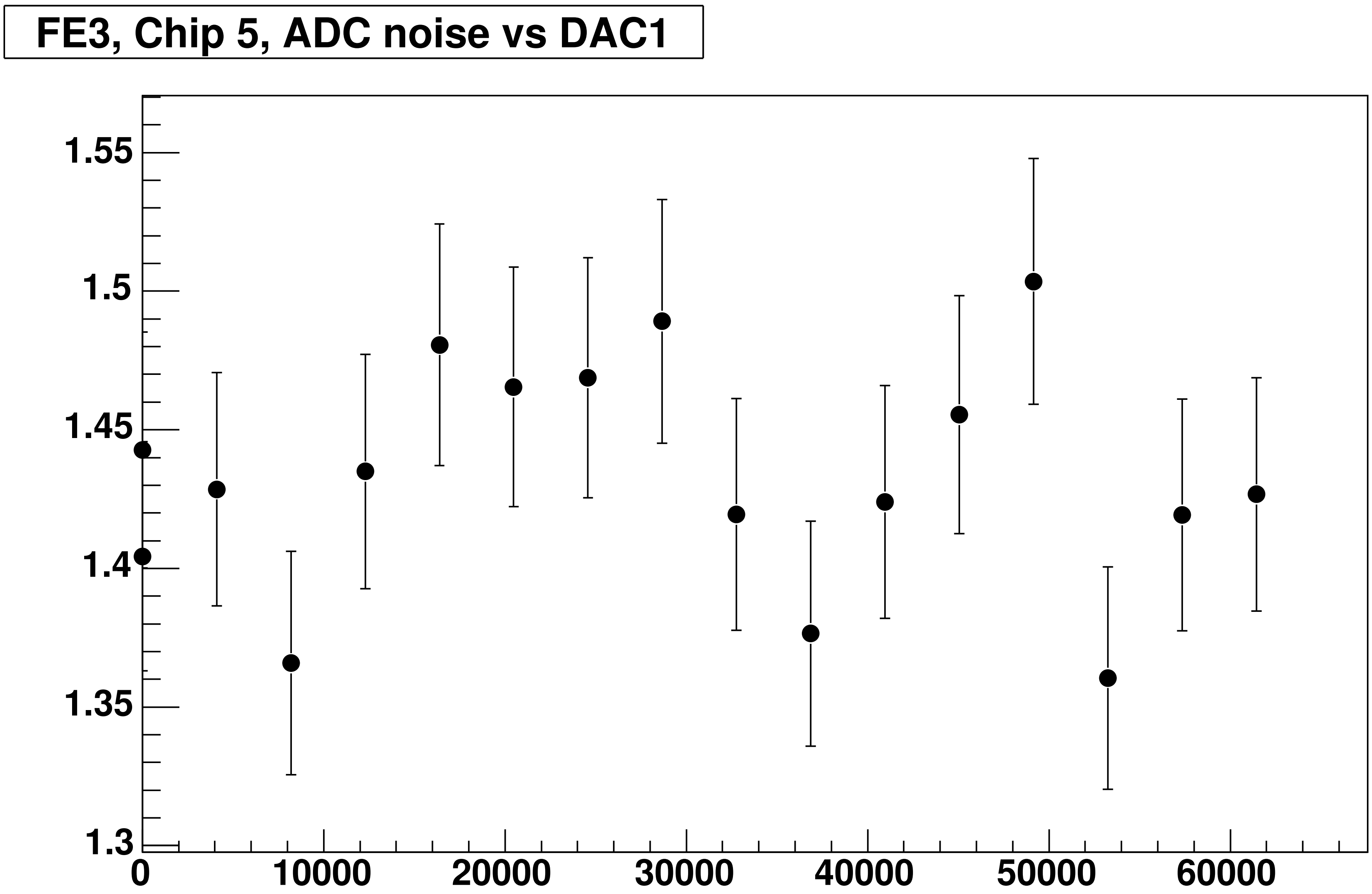
FE3, Chip 5, ADC mean vs DAC0
χ^2 / ndf 983.3 / 11
p0 -30.91 ± 0.04059
p1 0.4498 ± 1.269e-06
30000
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

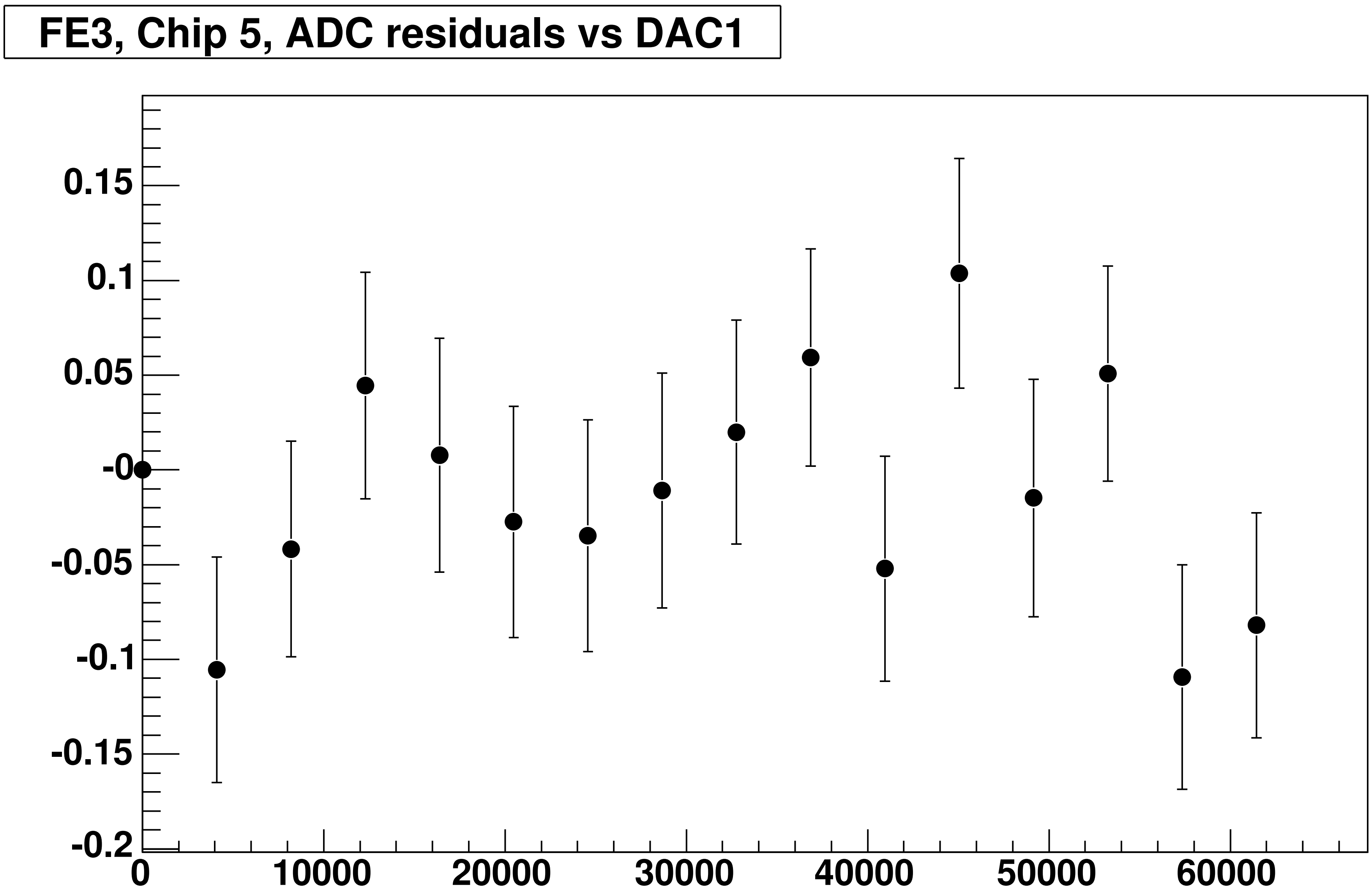

FE3, Chip 5, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



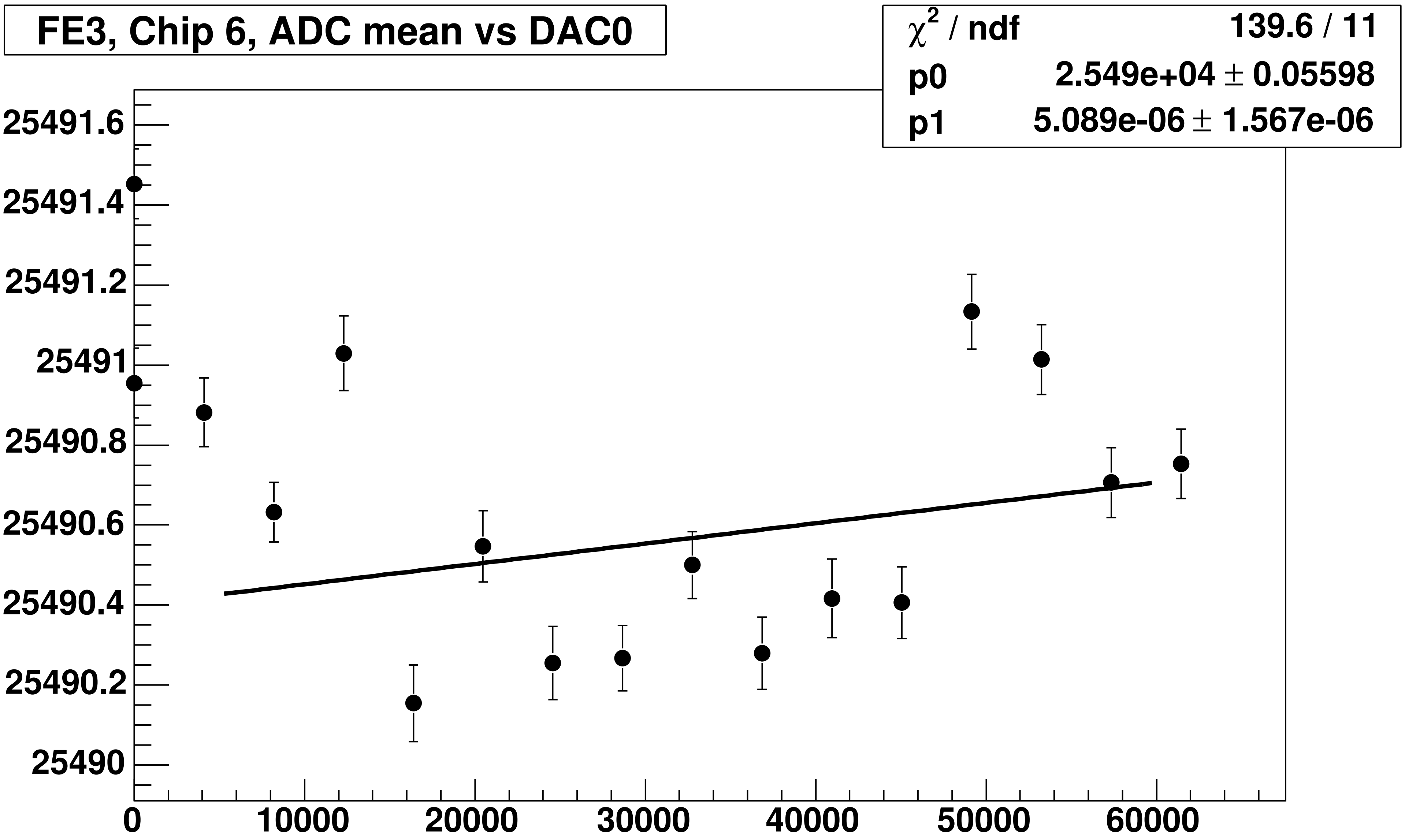
FE3, Chip 5, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

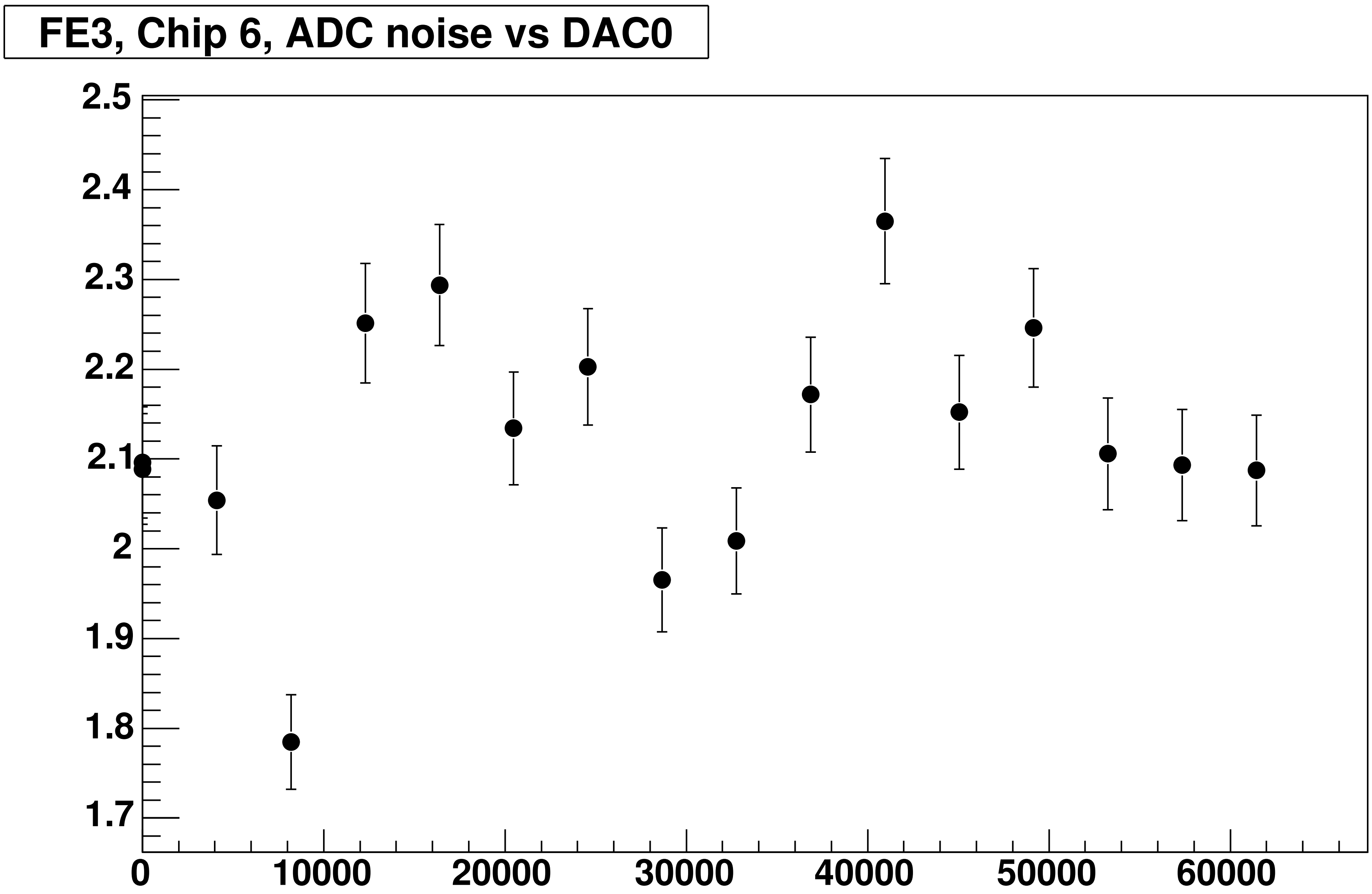

FE3, Chip 5, ADC mean vs DAC1
χ^2 / ndf 10.83 / 11
p0 -29.15 ± 0.03885
p1 -7.454e-07 ± 1.07e-06
-28.95
-29
-29.05
-29.1
-29.15
-29.2
-29.25
-29.3
-29.35
-29.4
0
10000
20000
30000
40000
50000
60000

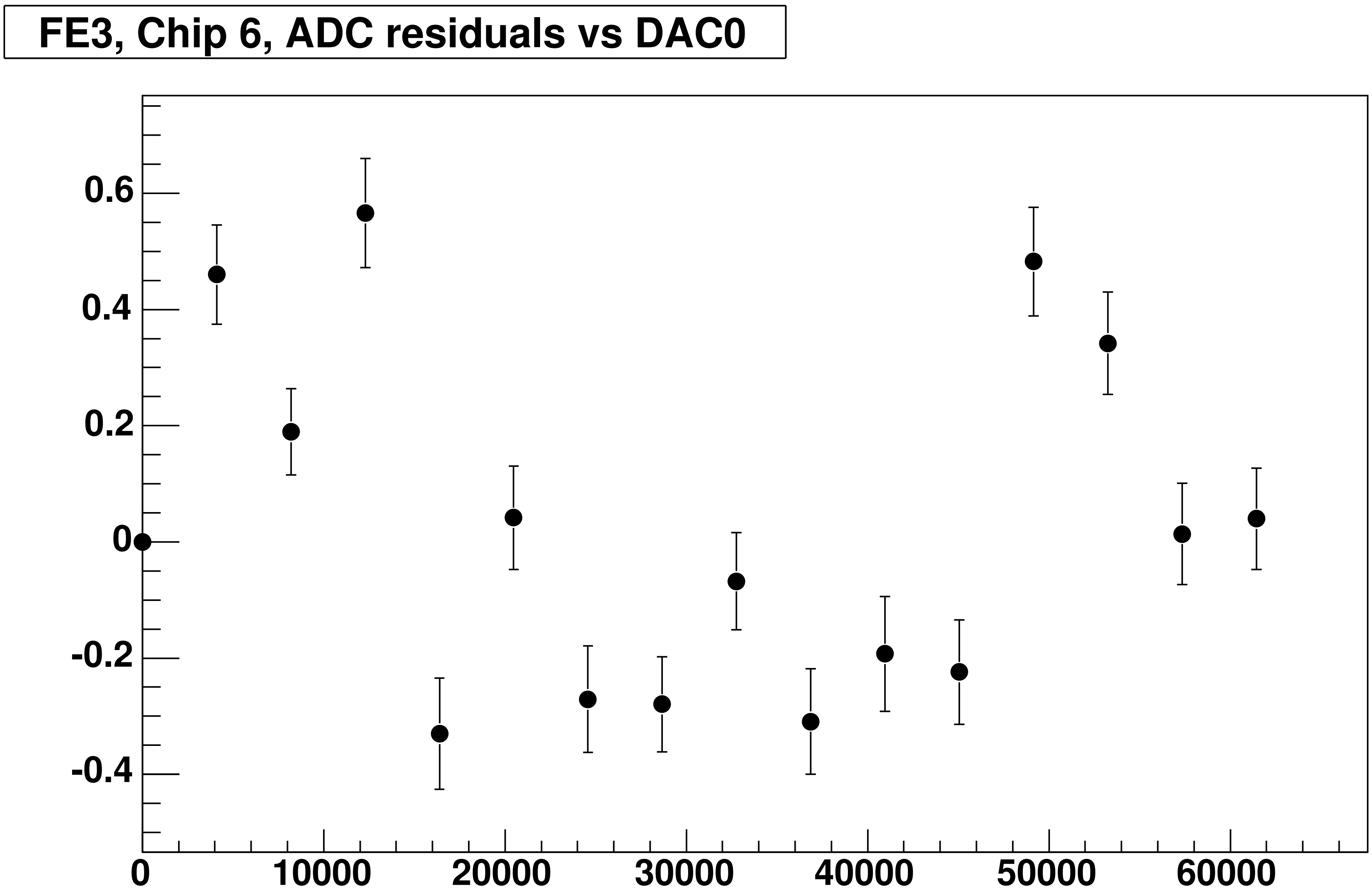

FE3, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

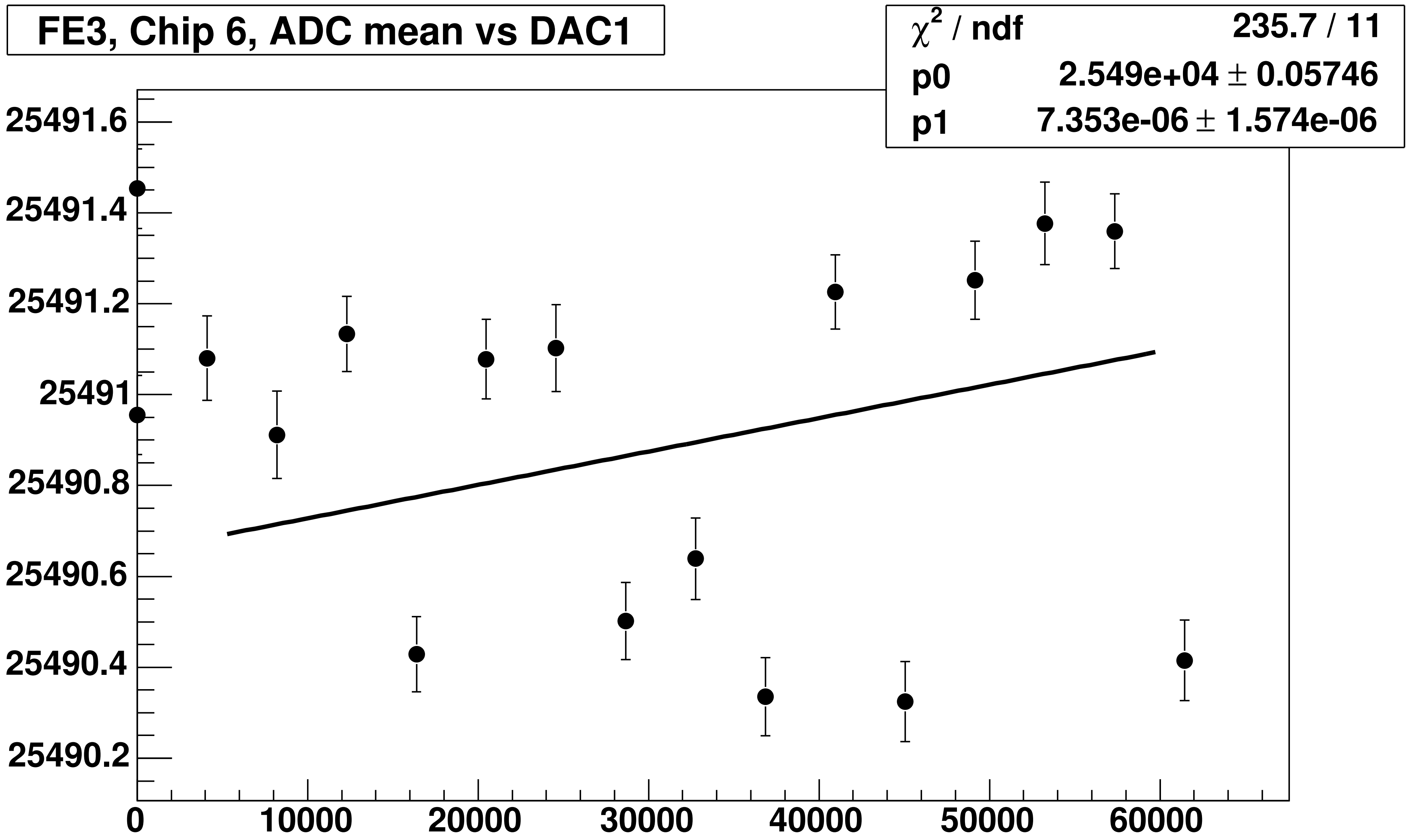


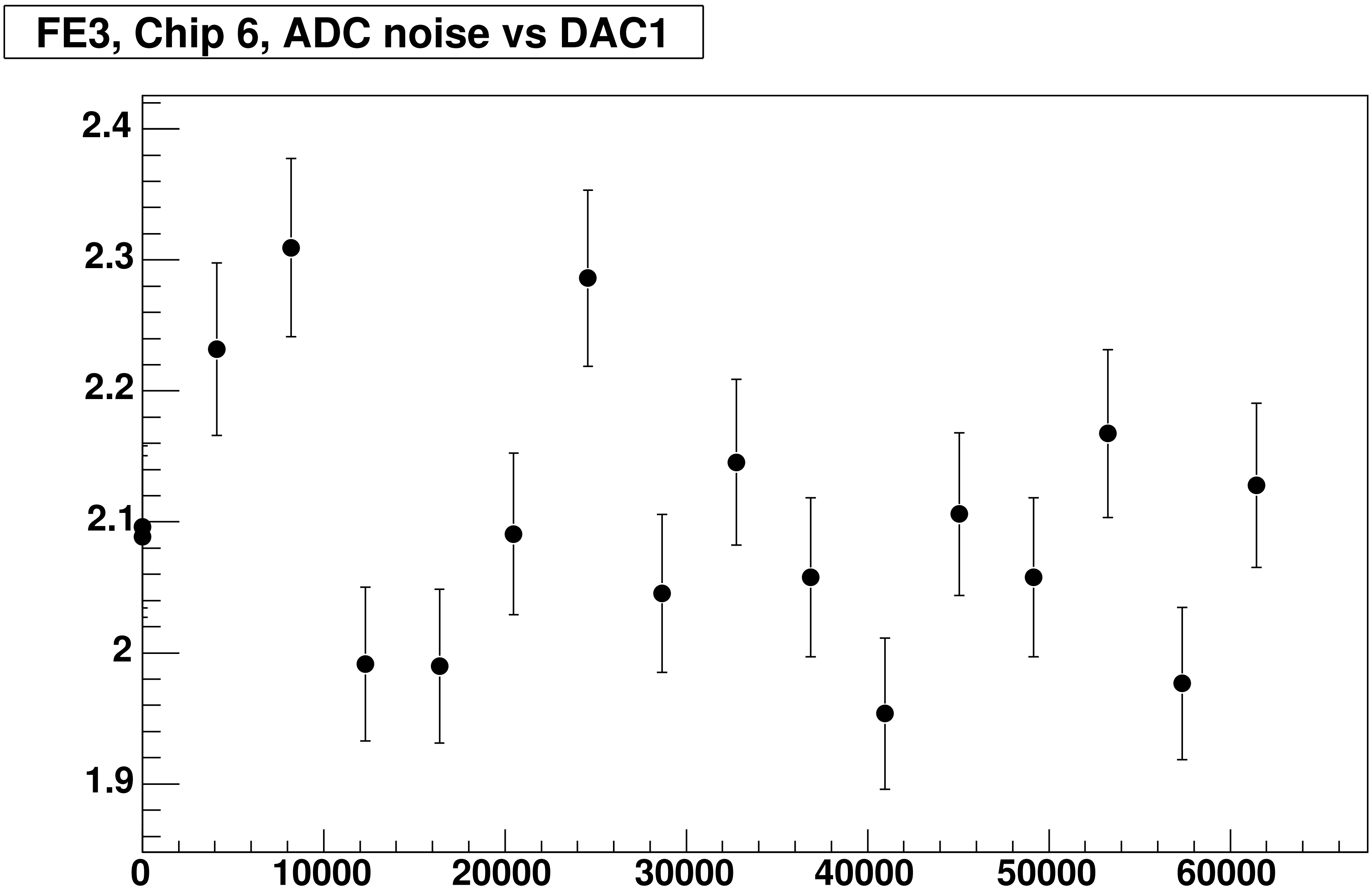
FE3, Chip 5, ADC residuals vs DAC1
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

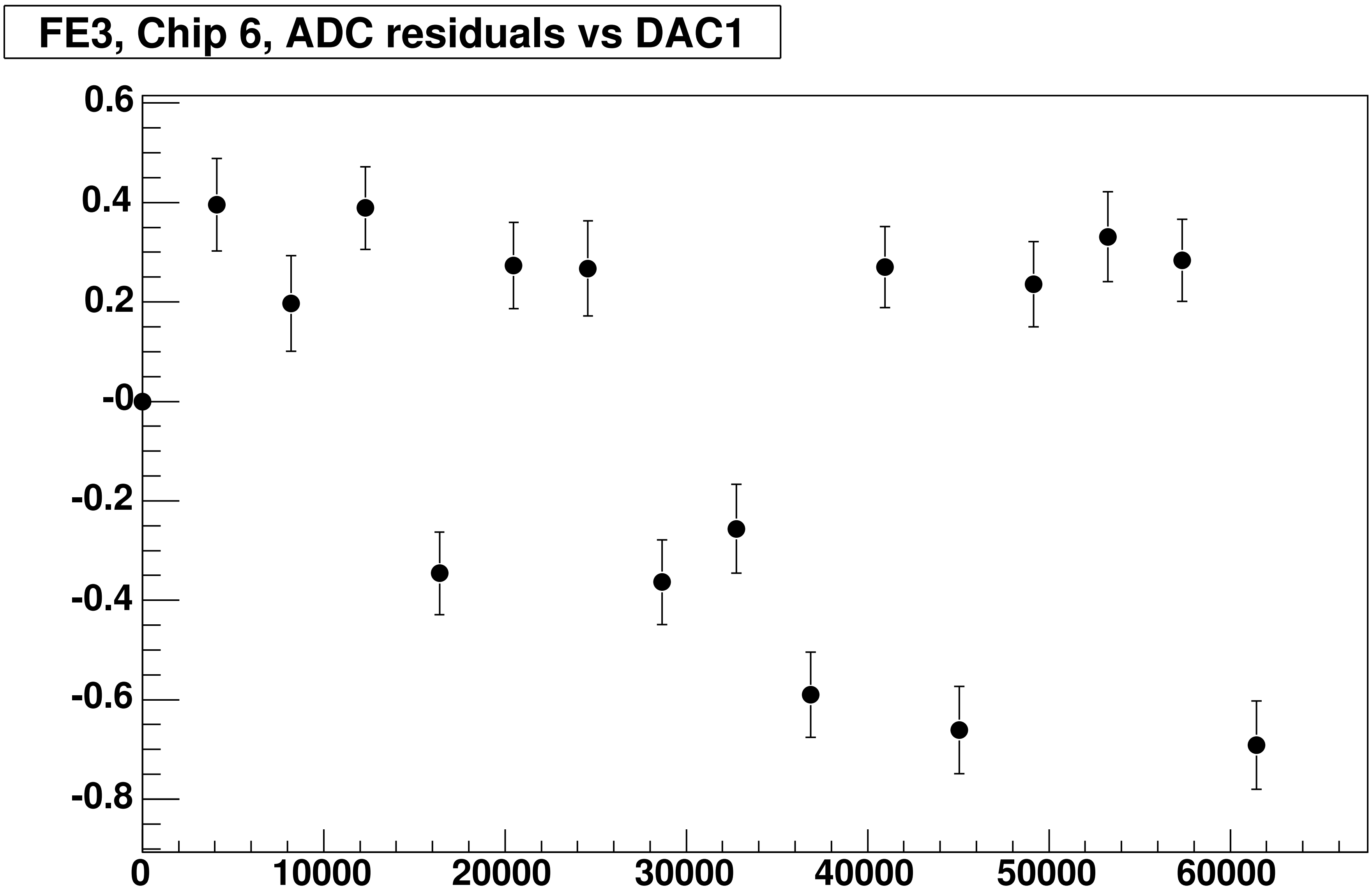

FE3, Chip 6, ADC mean vs DAC0
χ^2 / ndf 139.6 / 11
p0 2.549e+04 ± 0.05598
p1 5.089e-06 ± 1.567e-06
25491.6
25491.4
25491.2
25491
25490.8
25490.6
25490.4
25490.2
25490
0
10000
20000
30000
40000
50000
60000


FE3, Chip 6, ADC noise vs DAC0
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
0
10000
20000
30000
40000
50000
60000

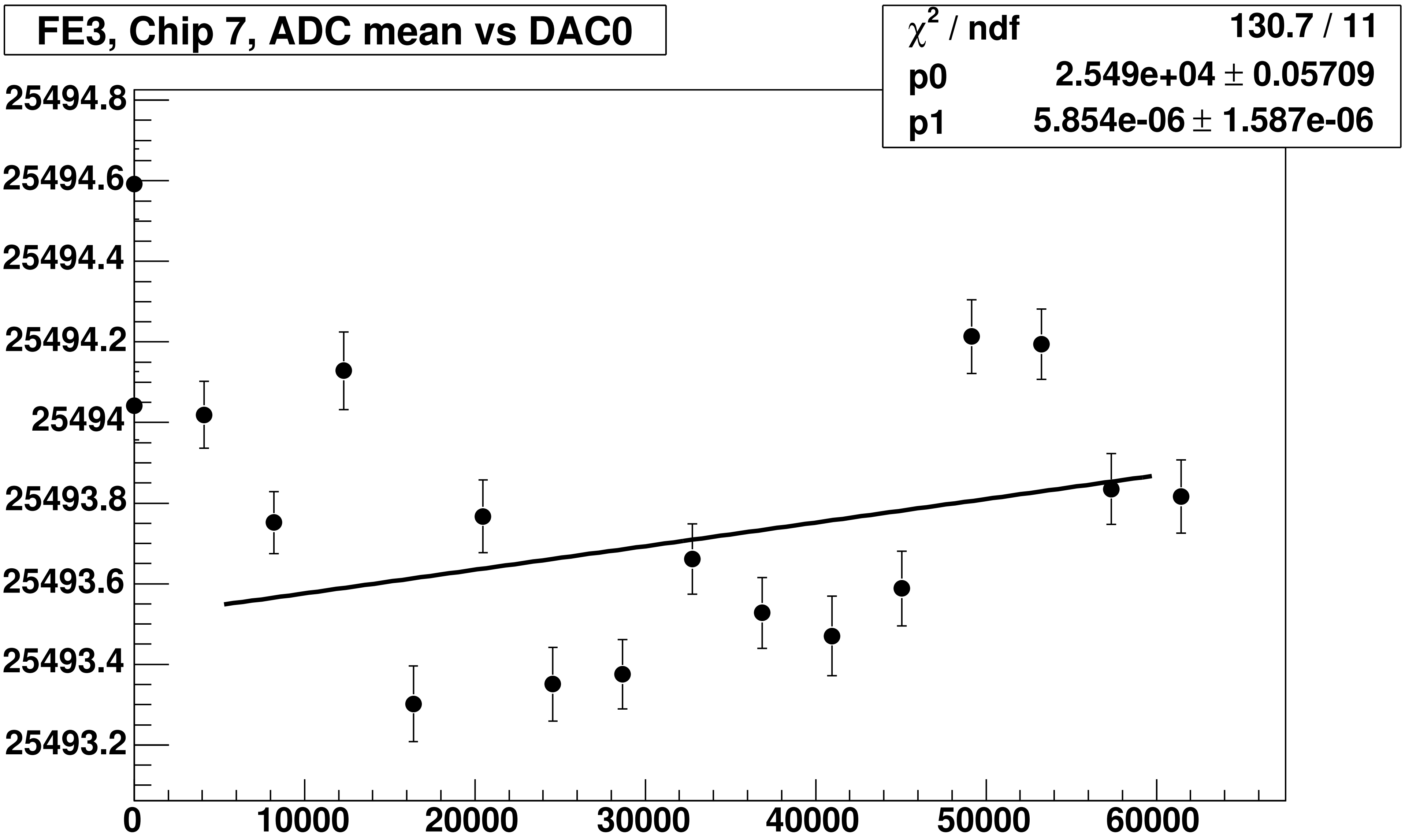

FE3, Chip 6, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

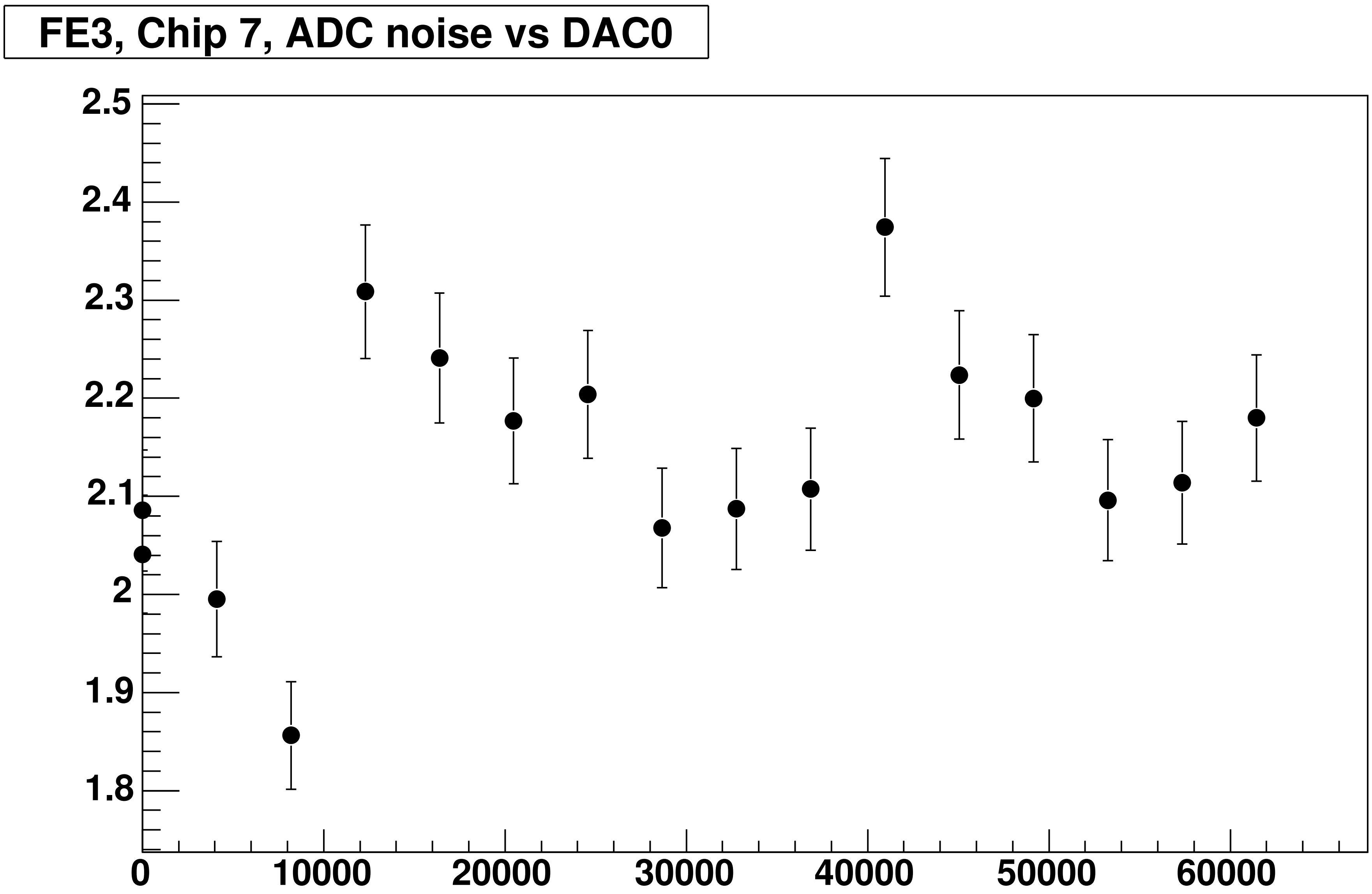

FE3, Chip 6, ADC mean vs DAC1
χ^2 / ndf 235.7 / 11
p0 2.549e+04 ± 0.05746
p1 7.353e-06 ± 1.574e-06
25491.6
25491.4
25491.2
25491
25490.8
25490.6
25490.4
25490.2
0
10000
20000
30000
40000
50000
60000

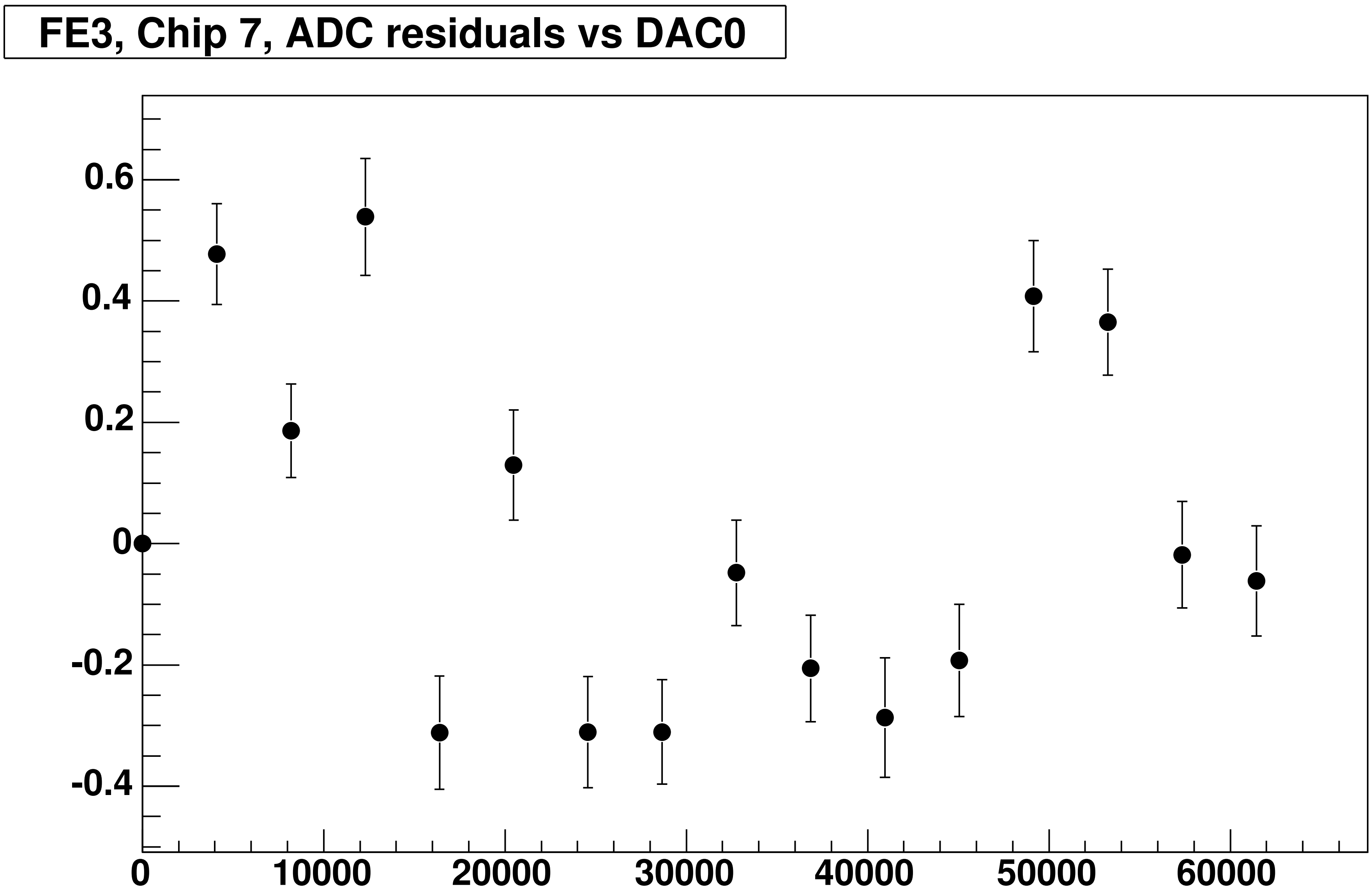

FE3, Chip 6, ADC noise vs DAC1
2.4
2.3
2.2
2.1
2
1.9
0
10000
20000
30000
40000
50000
60000

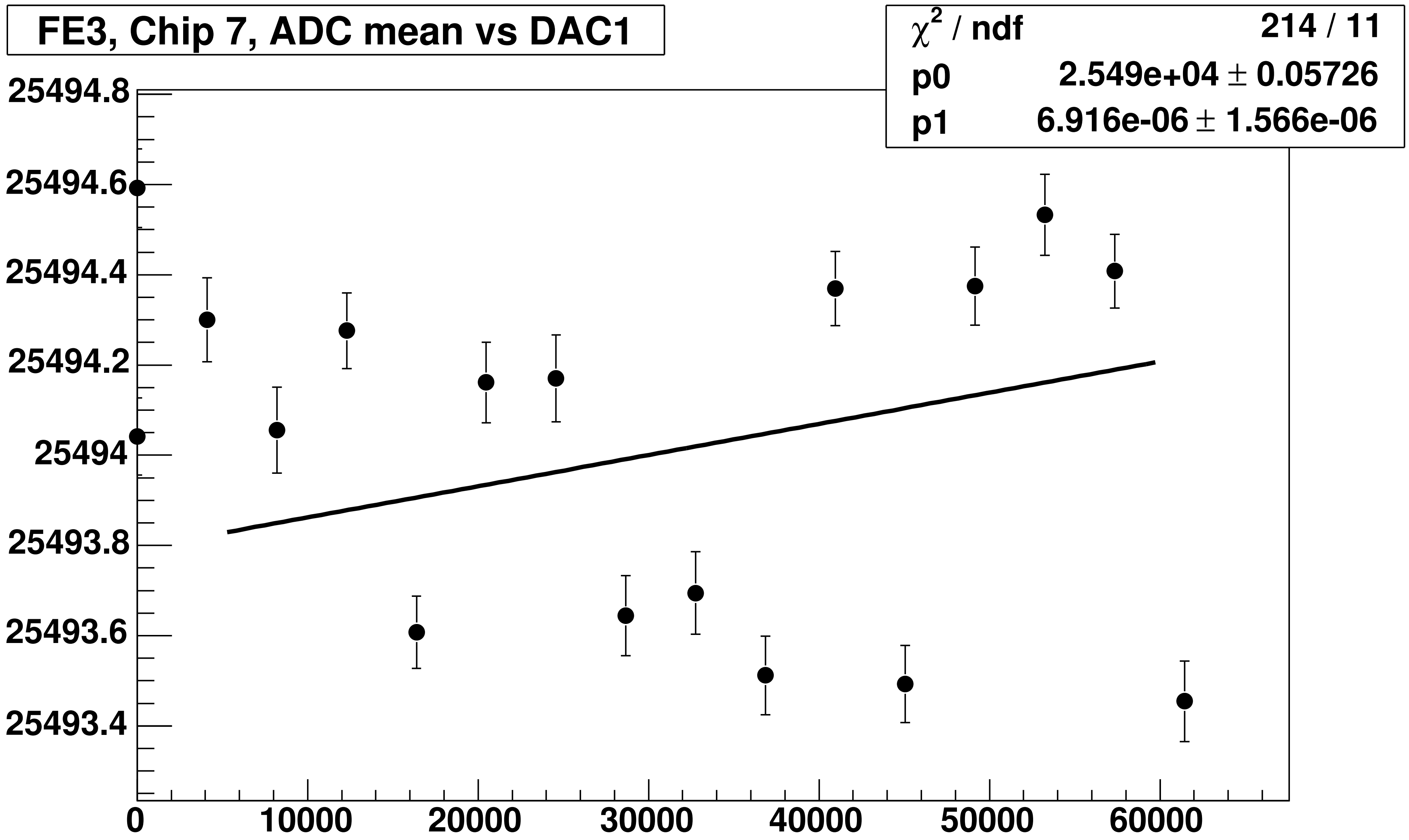


FE3, Chip 6, ADC residuals vs DAC1
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
0
10000
20000
30000
40000
50000
60000

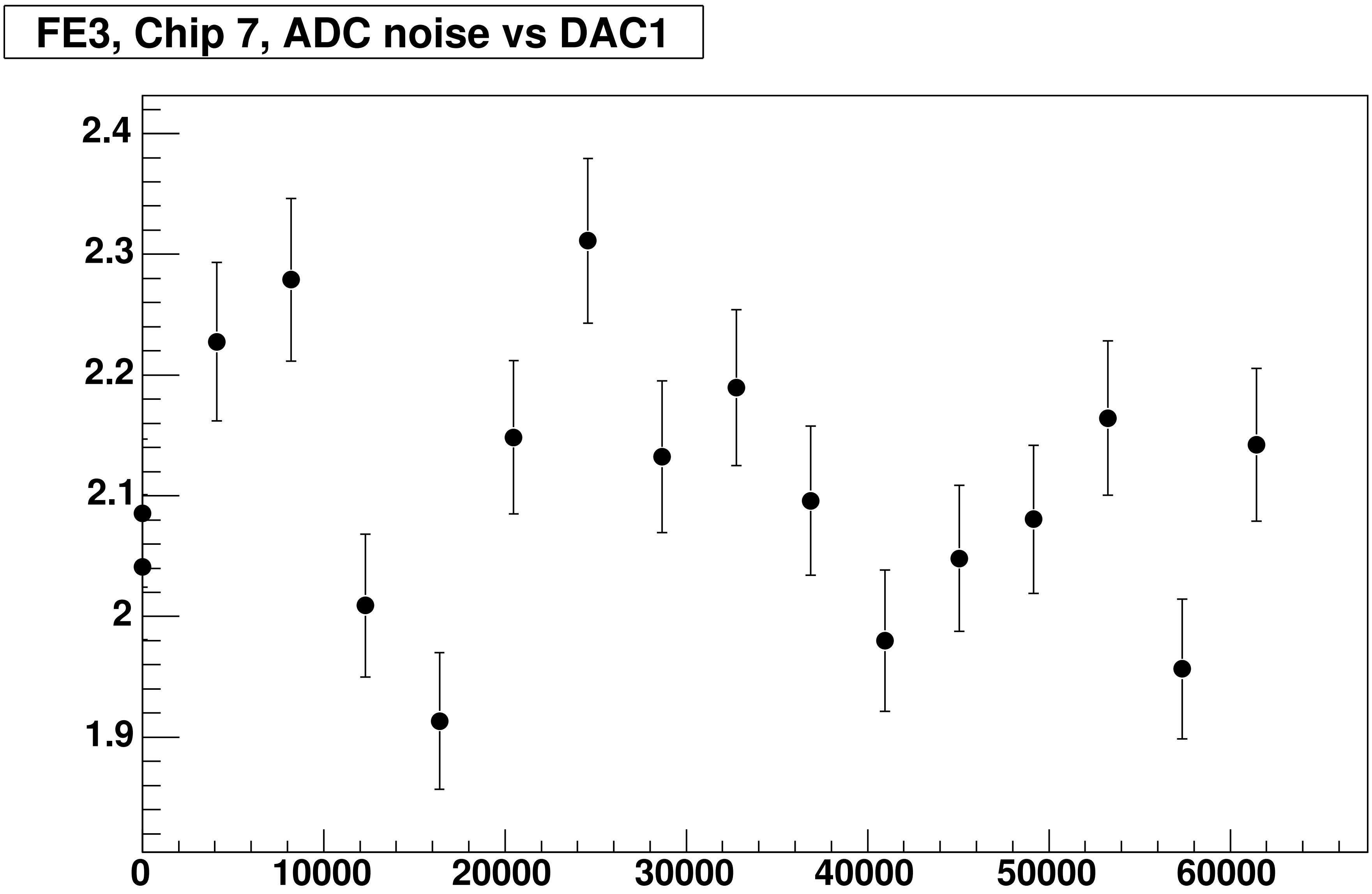

FE3, Chip 7, ADC mean vs DAC0
χ² / ndf 130.7 / 11
p0 2.549e+04 ± 0.05709
p1 5.854e-06 ± 1.587e-06
25494.8
25494.6
25494.4
25494.2
25494
25493.8
25493.6
25493.4
25493.2
0
10000
20000
30000
40000
50000
60000


FE3, Chip 7, ADC noise vs DAC0
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
0
10000
20000
30000
40000
50000
60000


FE3, Chip 7, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

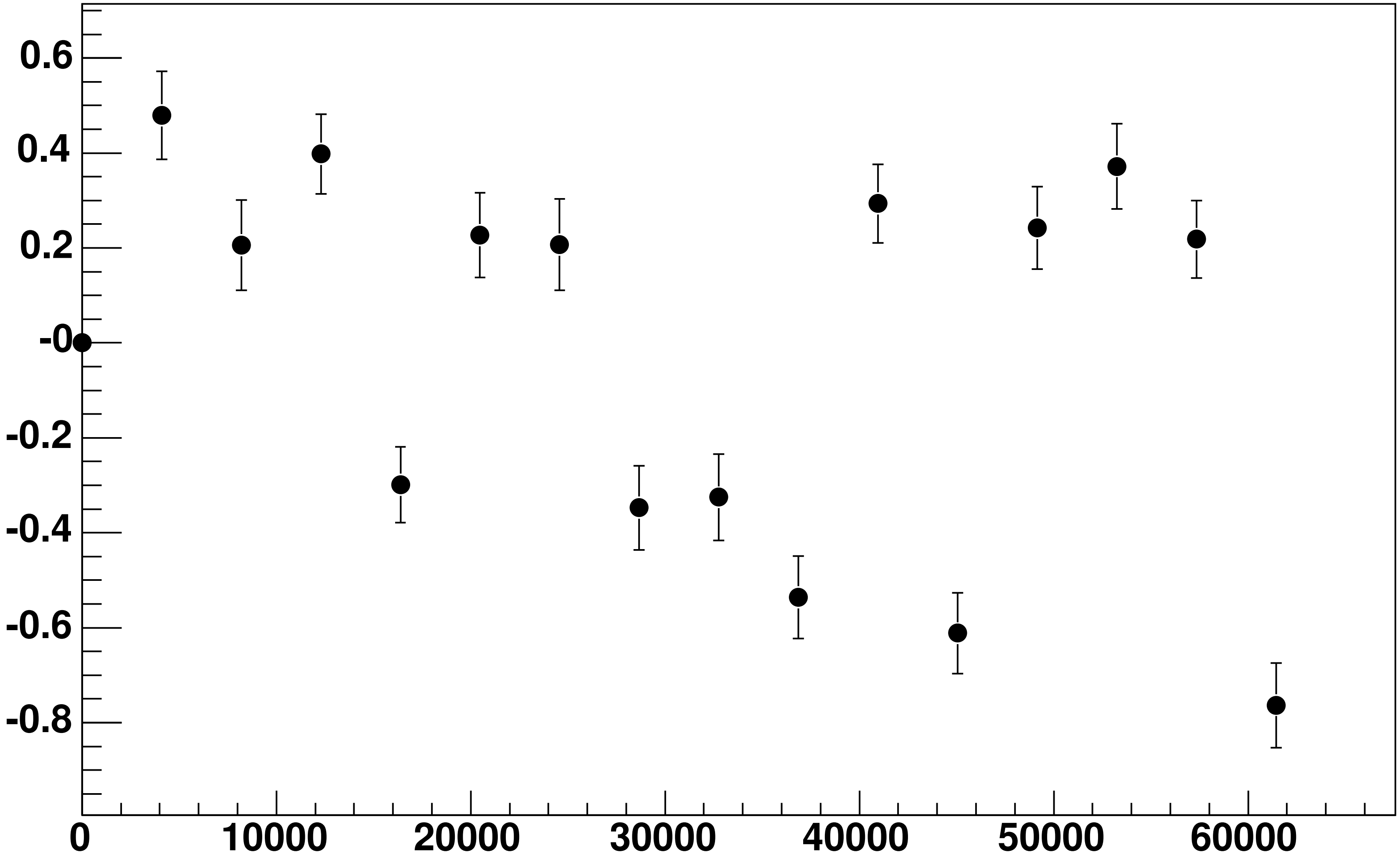


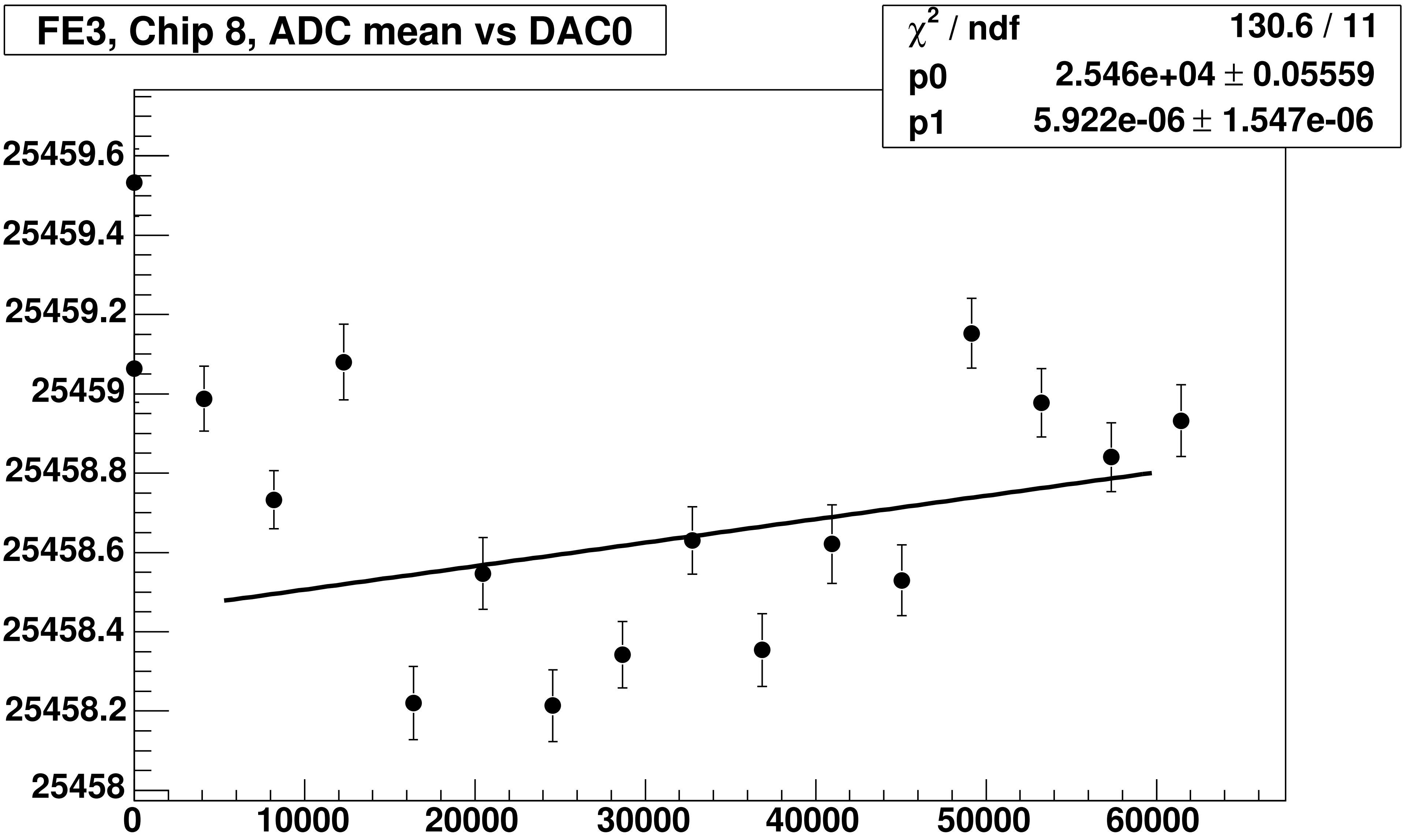
FE3, Chip 7, ADC mean vs DAC1
χ² / ndf 214 / 11
p0 2.549e+04 ± 0.05726
p1 6.916e-06 ± 1.566e-06
25494.8
25494.6
25494.4
25494.2
25494
25493.8
25493.6
25493.4
0
10000
20000
30000
40000
50000
60000

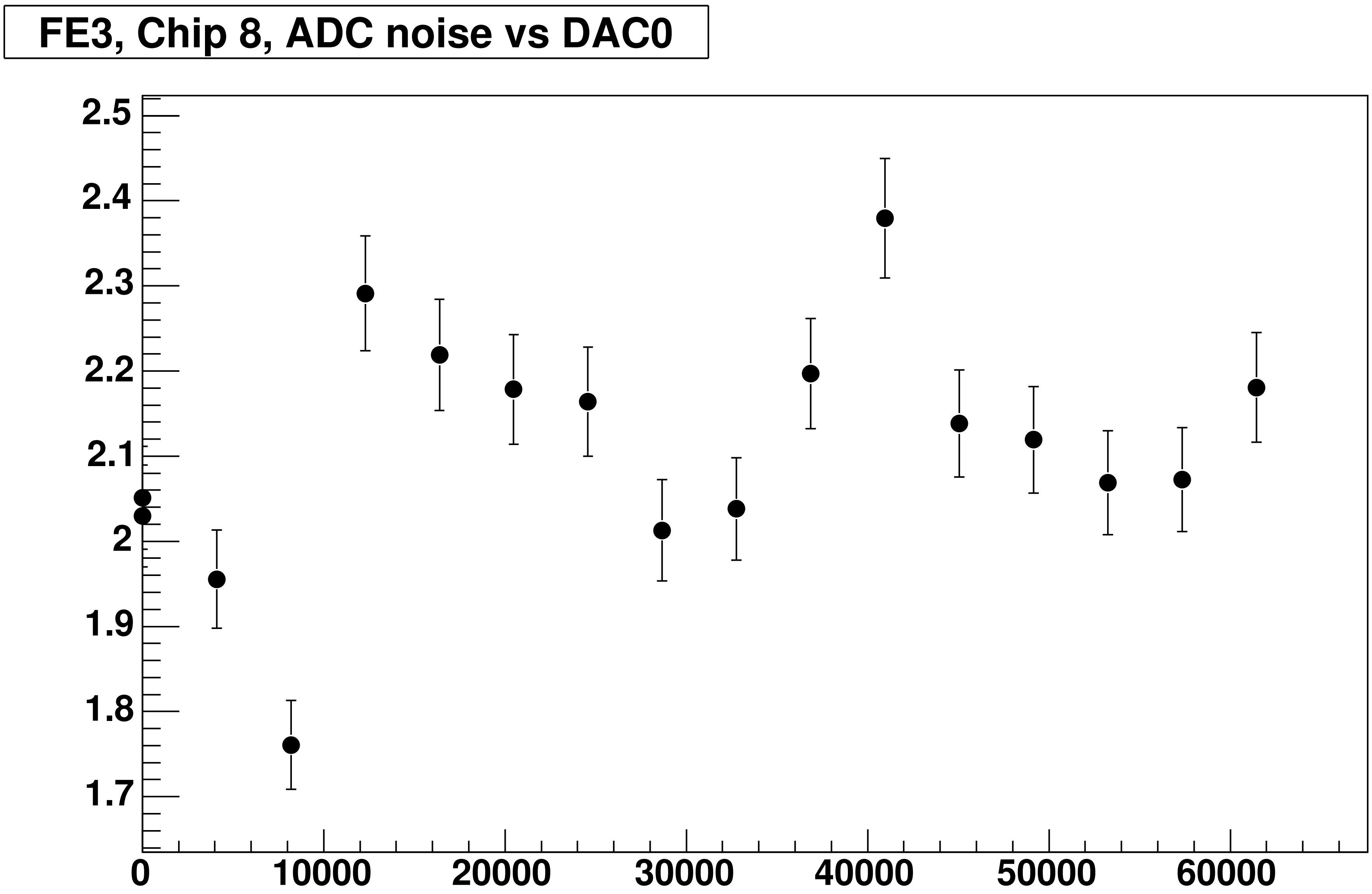


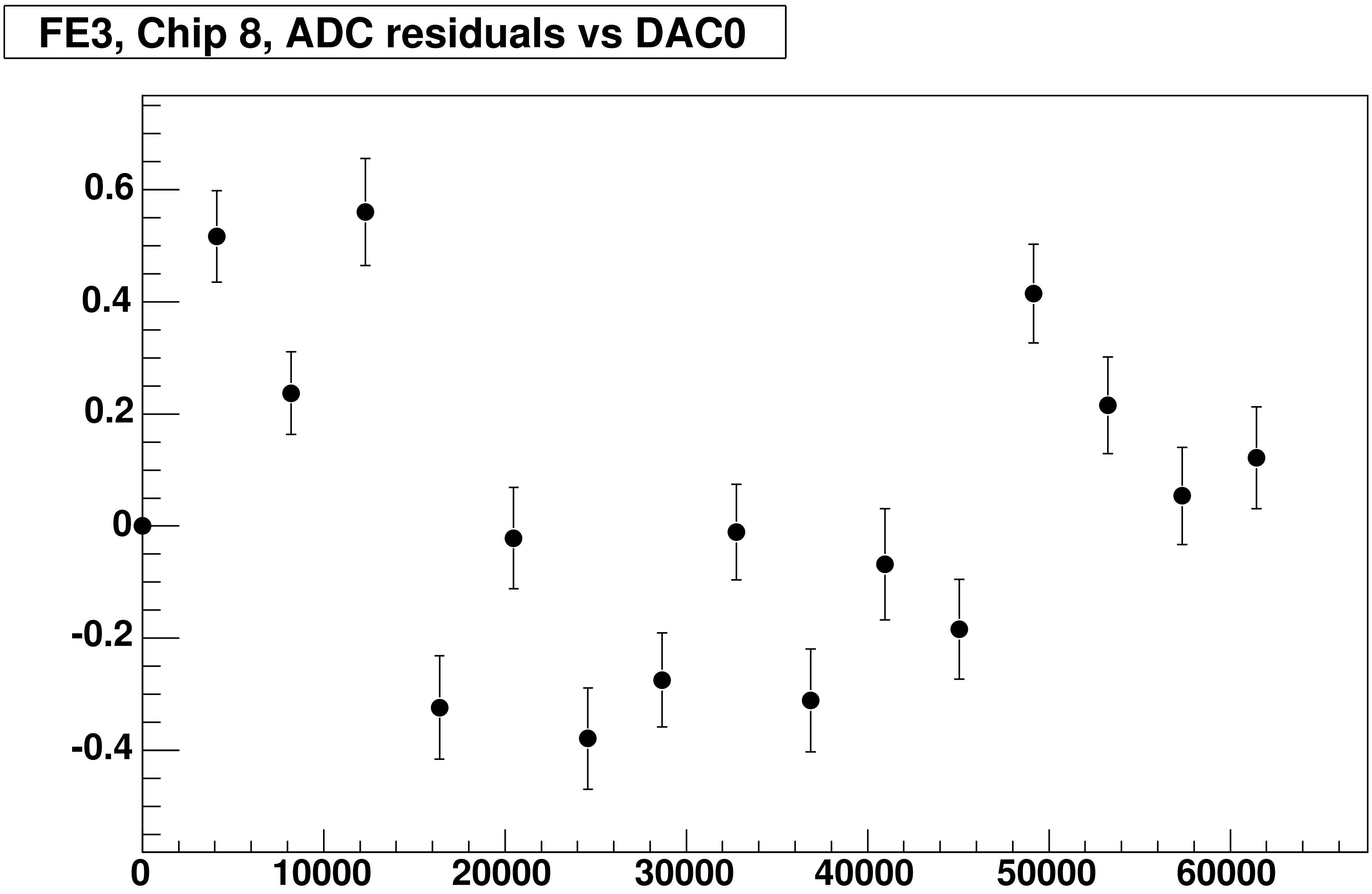
FE3, Chip 7, ADC noise vs DAC1
2.4
2.3
2.2
2.1
2
1.9
0
10000
20000
30000
40000
50000
60000

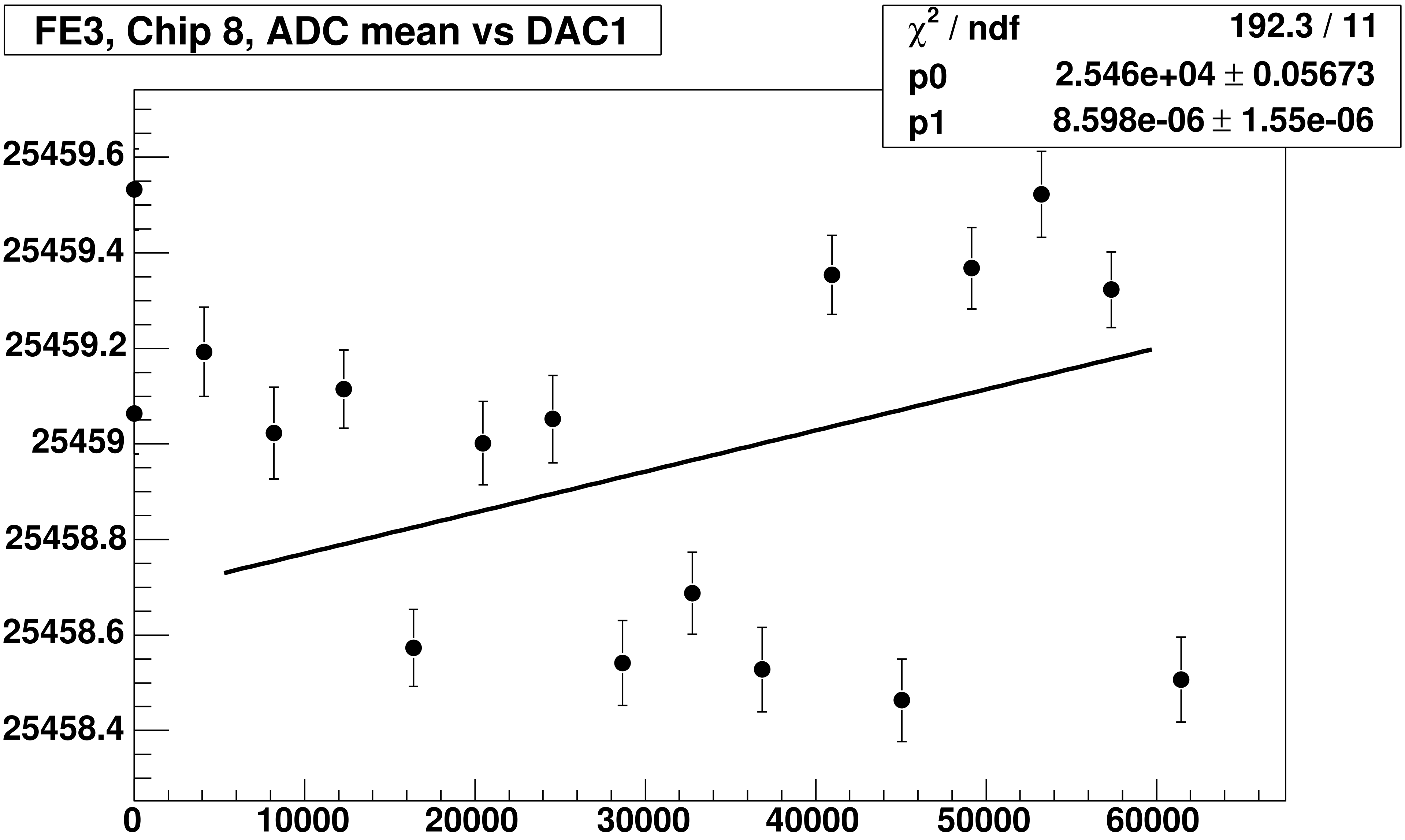
FE3, Chip 7, ADC residuals vs DAC1



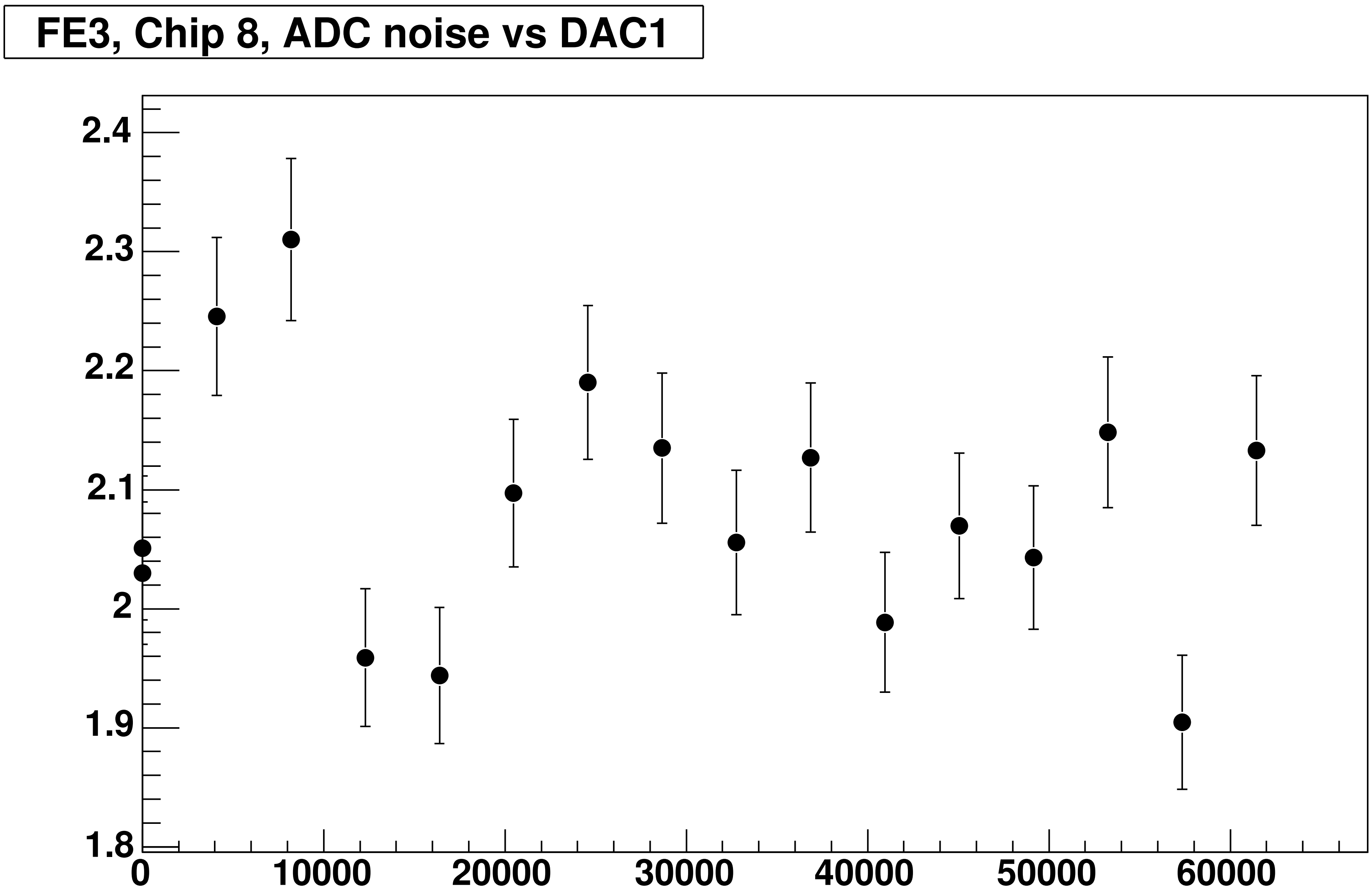

FE3, Chip 8, ADC mean vs DAC0
χ2 / ndf 130.6 / 11
p0 2.546e+04 ± 0.05559
p1 5.922e-06 ± 1.547e-06
25459.6
25459.4
25459.2
25459
25458.8
25458.6
25458.4
25458.2
25458
0
10000
20000
30000
40000
50000
60000


FE3, Chip 8, ADC noise vs DAC0
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
0
10000
20000
30000
40000
50000
60000

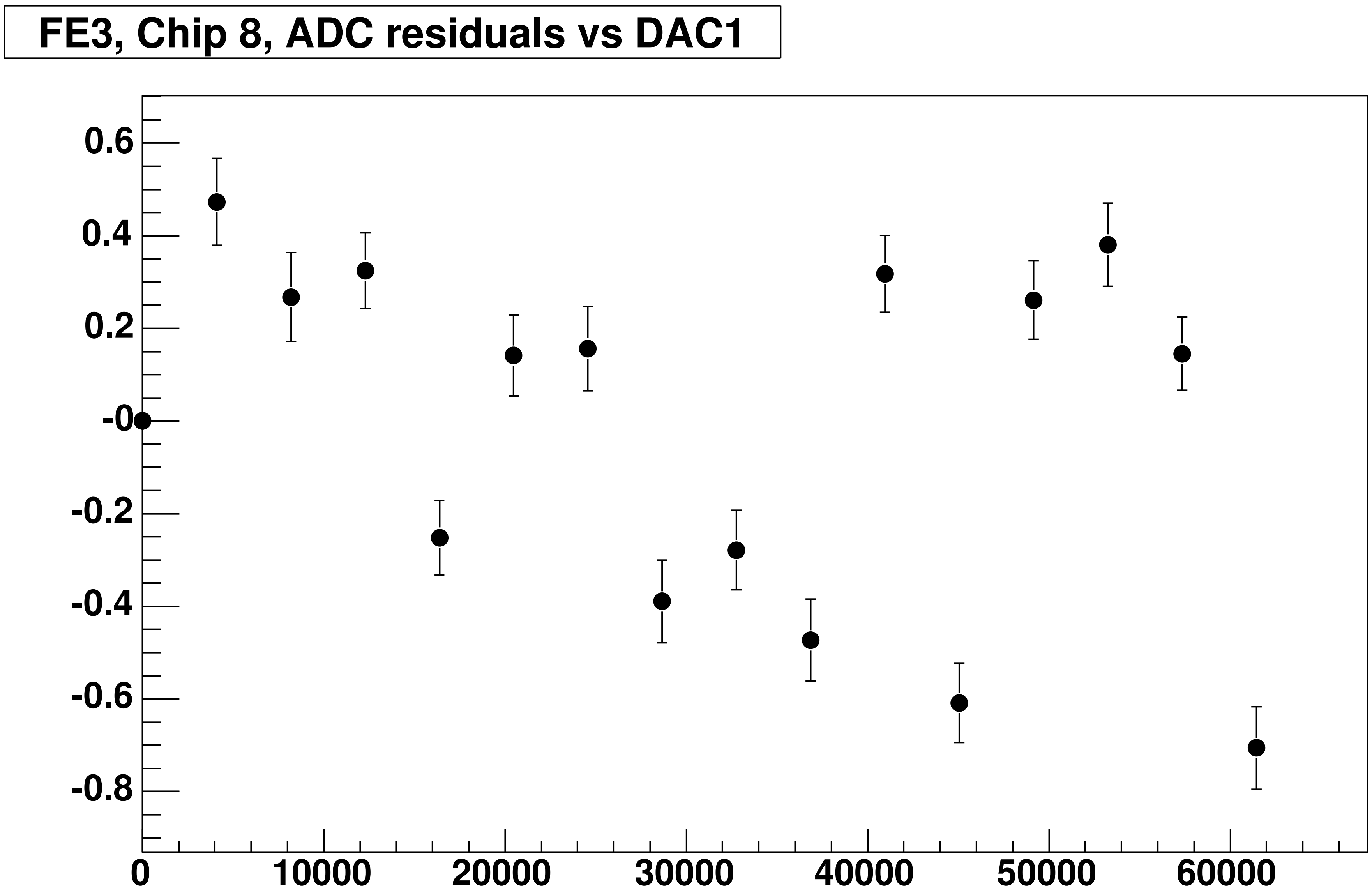

FE3, Chip 8, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000



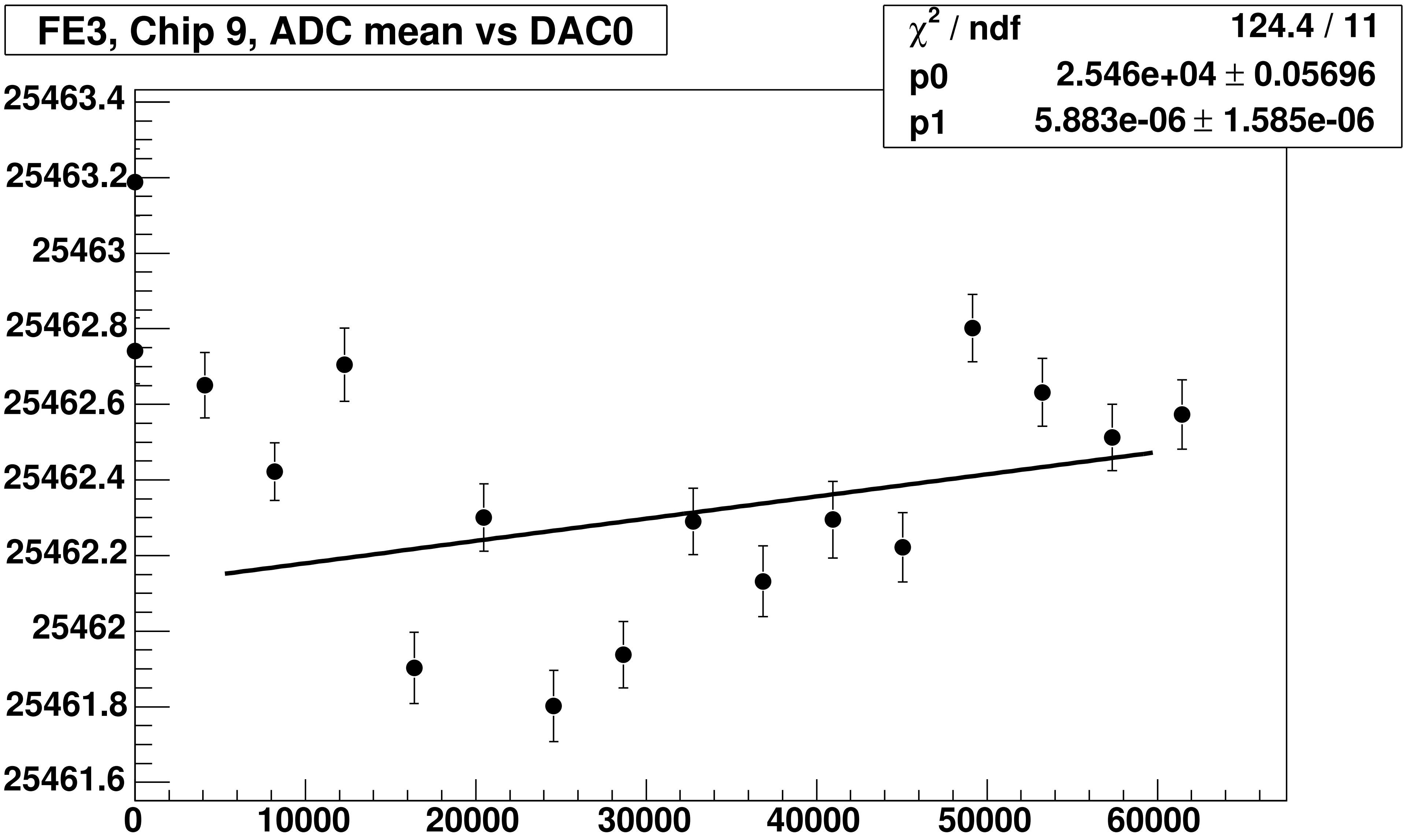
FE3, Chip 8, ADC mean vs DAC1
χ² / ndf 192.3 / 11
p0 2.546e+04 ± 0.05673
p1 8.598e-06 ± 1.55e-06
25459.6
25459.4
25459.2
25459
25458.8
25458.6
25458.4
0
10000
20000
30000
40000
50000
60000

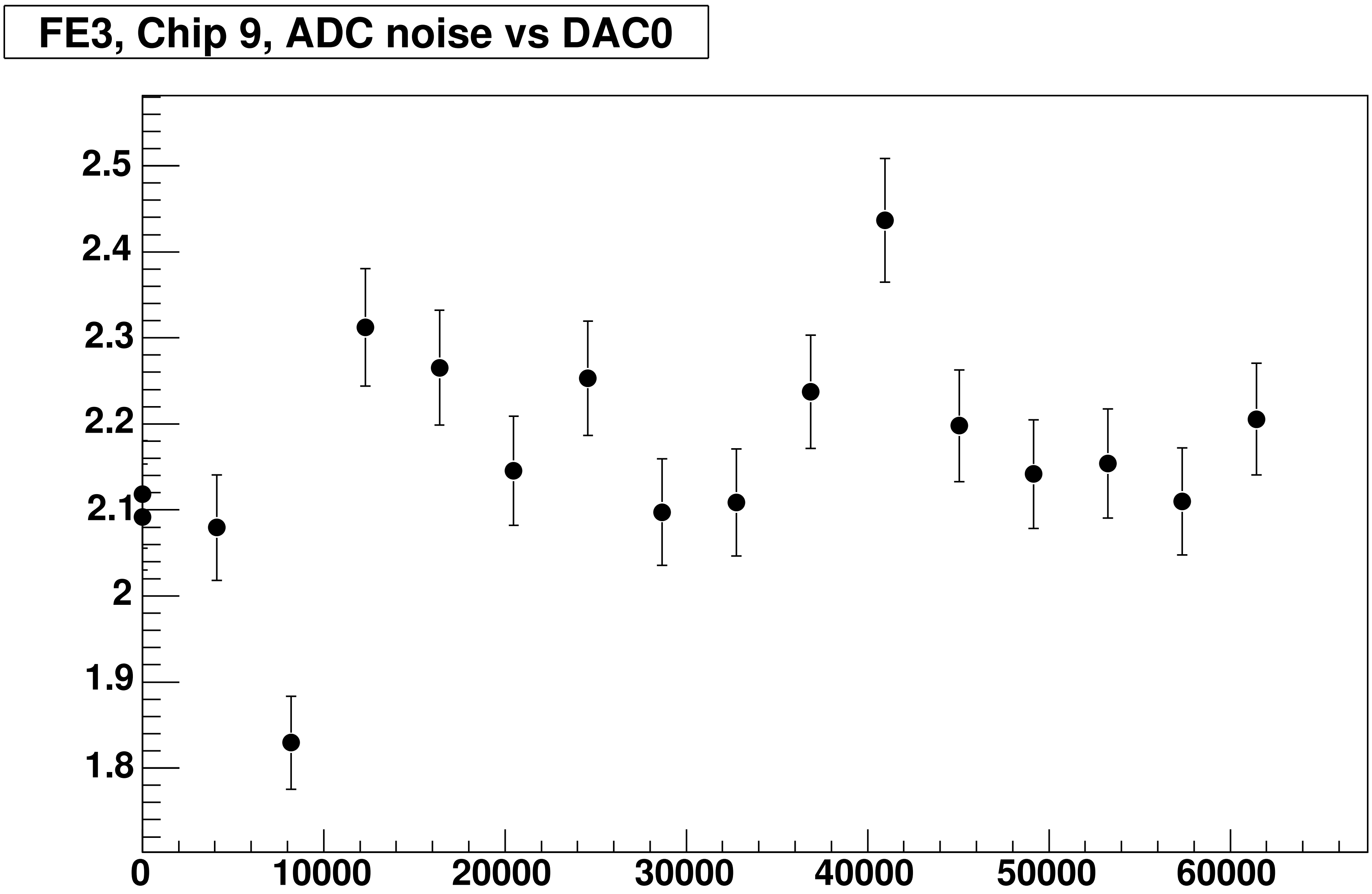


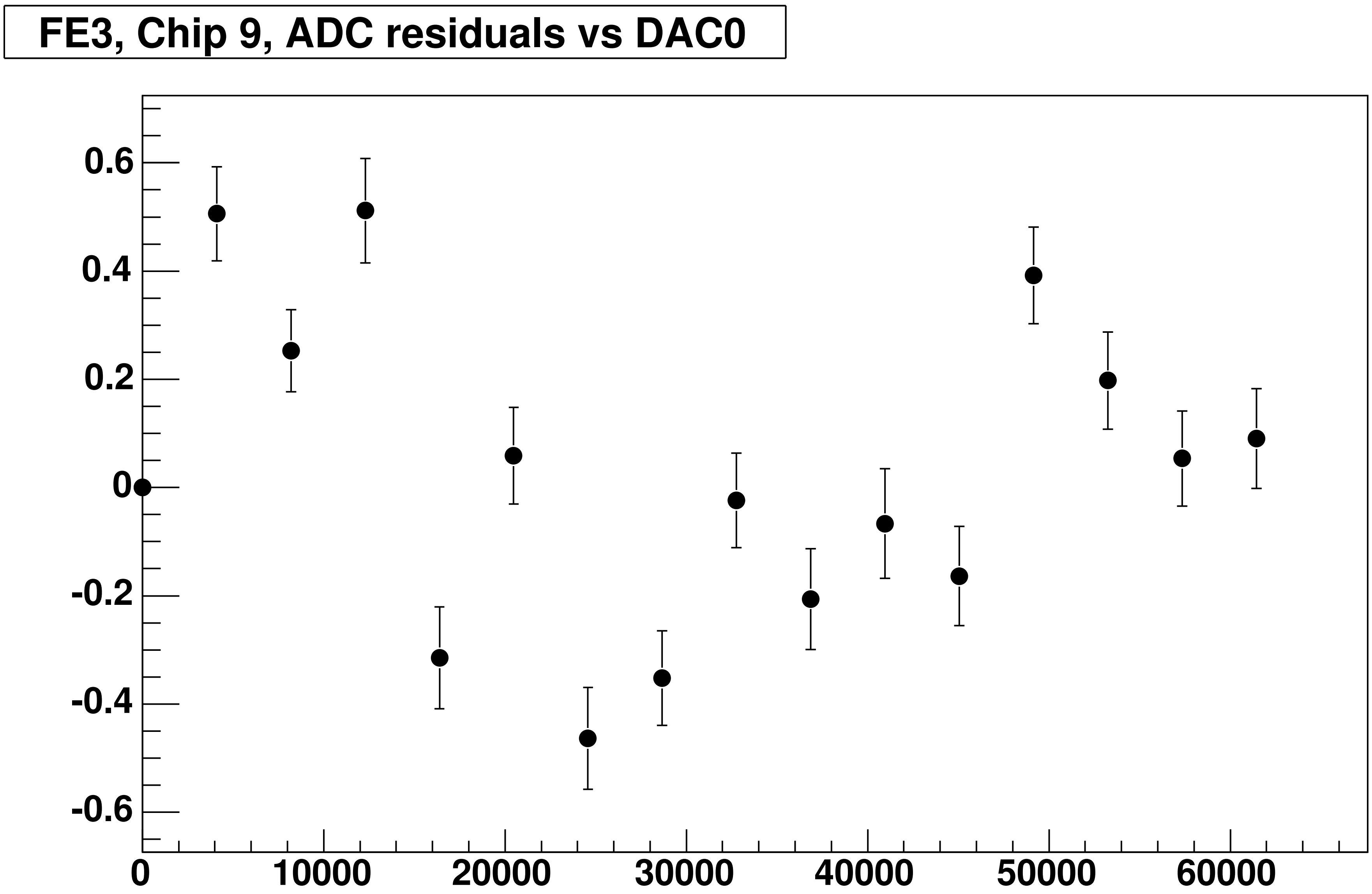
FE3, Chip 8, ADC noise vs DAC1
2.4
2.3
2.2
2.1
2
1.9
1.8
0
10000
20000
30000
40000
50000
60000

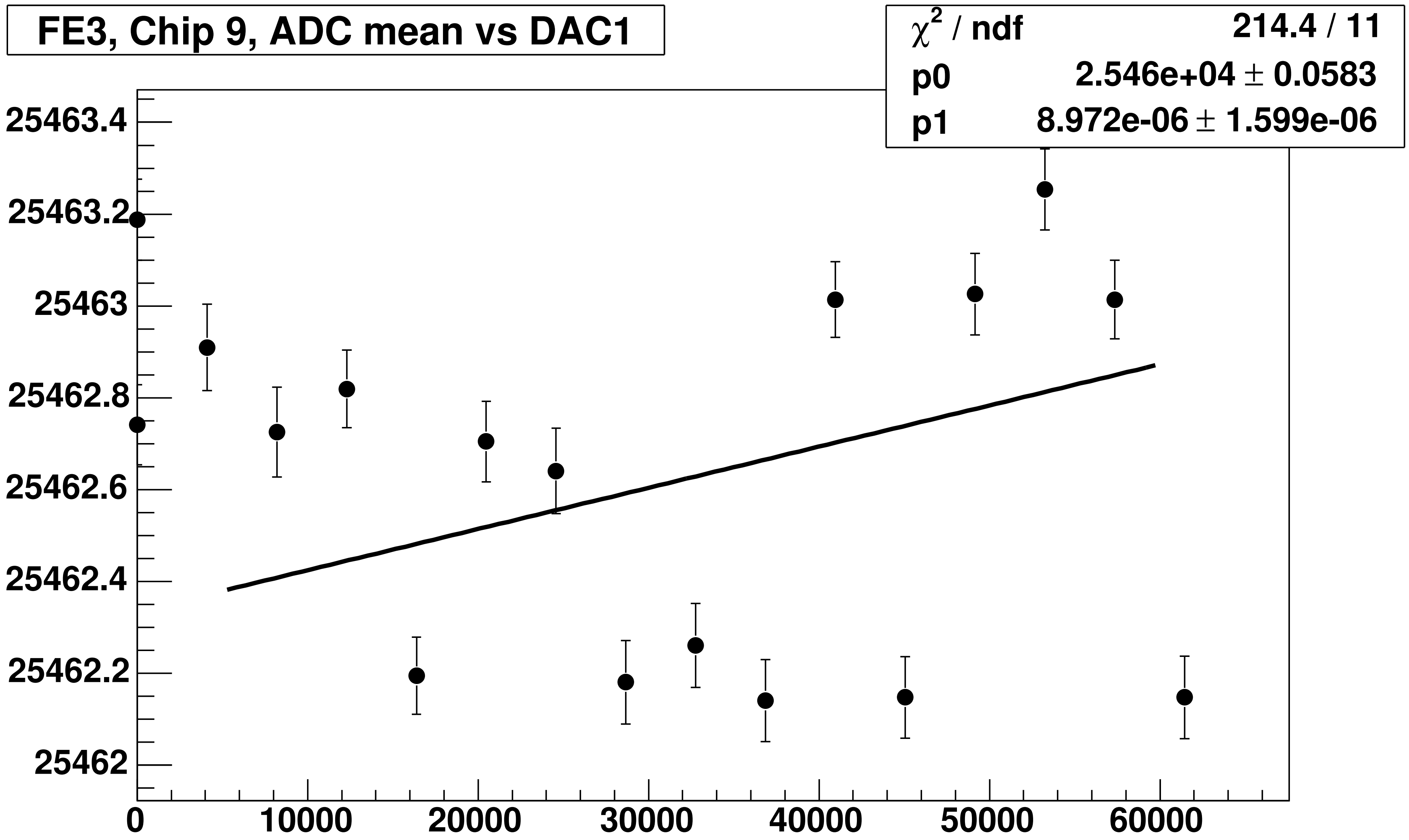


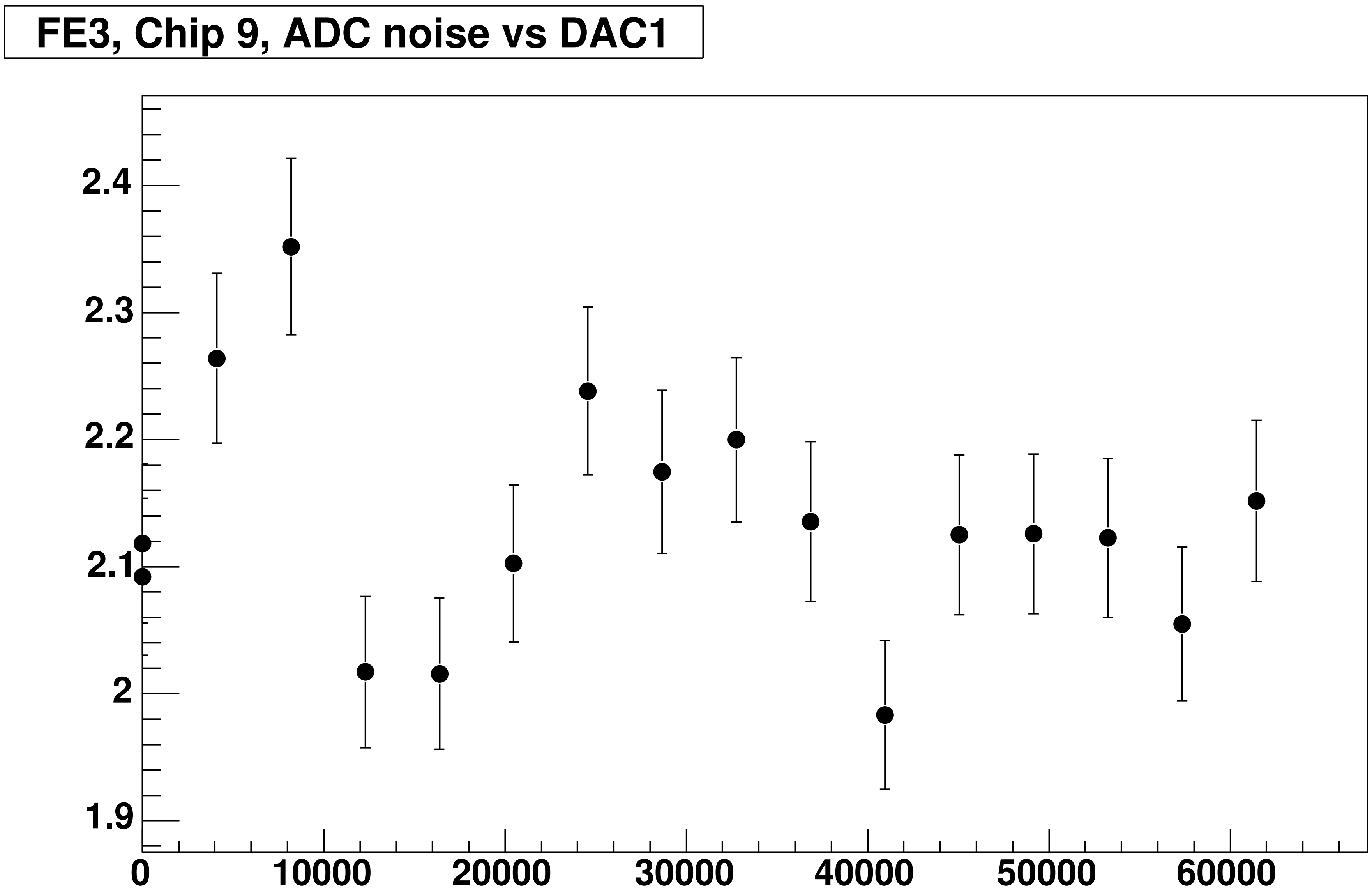
FE3, Chip 8, ADC residuals vs DAC1
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
0
10000
20000
30000
40000
50000
60000

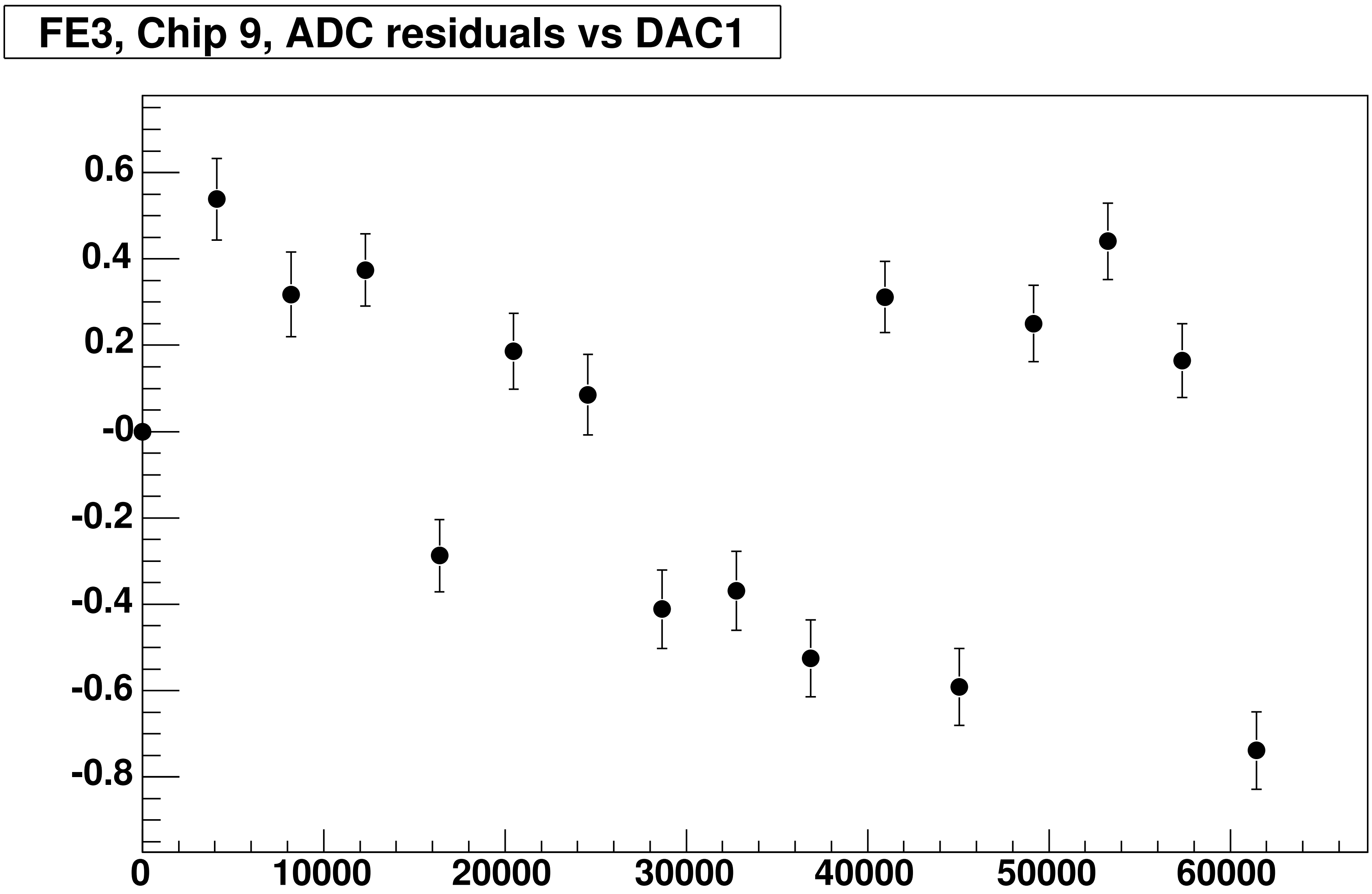

FE3, Chip 9, ADC mean vs DAC0
χ^2 / ndf 124.4 / 11
p0 2.546e+04 ± 0.05696
p1 5.883e-06 ± 1.585e-06
25463.4
25463.2
25463
25462.8
25462.6
25462.4
25462.2
25462
25461.8
25461.6
0
10000
20000
30000
40000
50000
60000


FE3, Chip 9, ADC noise vs DAC0
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
0
10000
20000
30000
40000
50000
60000

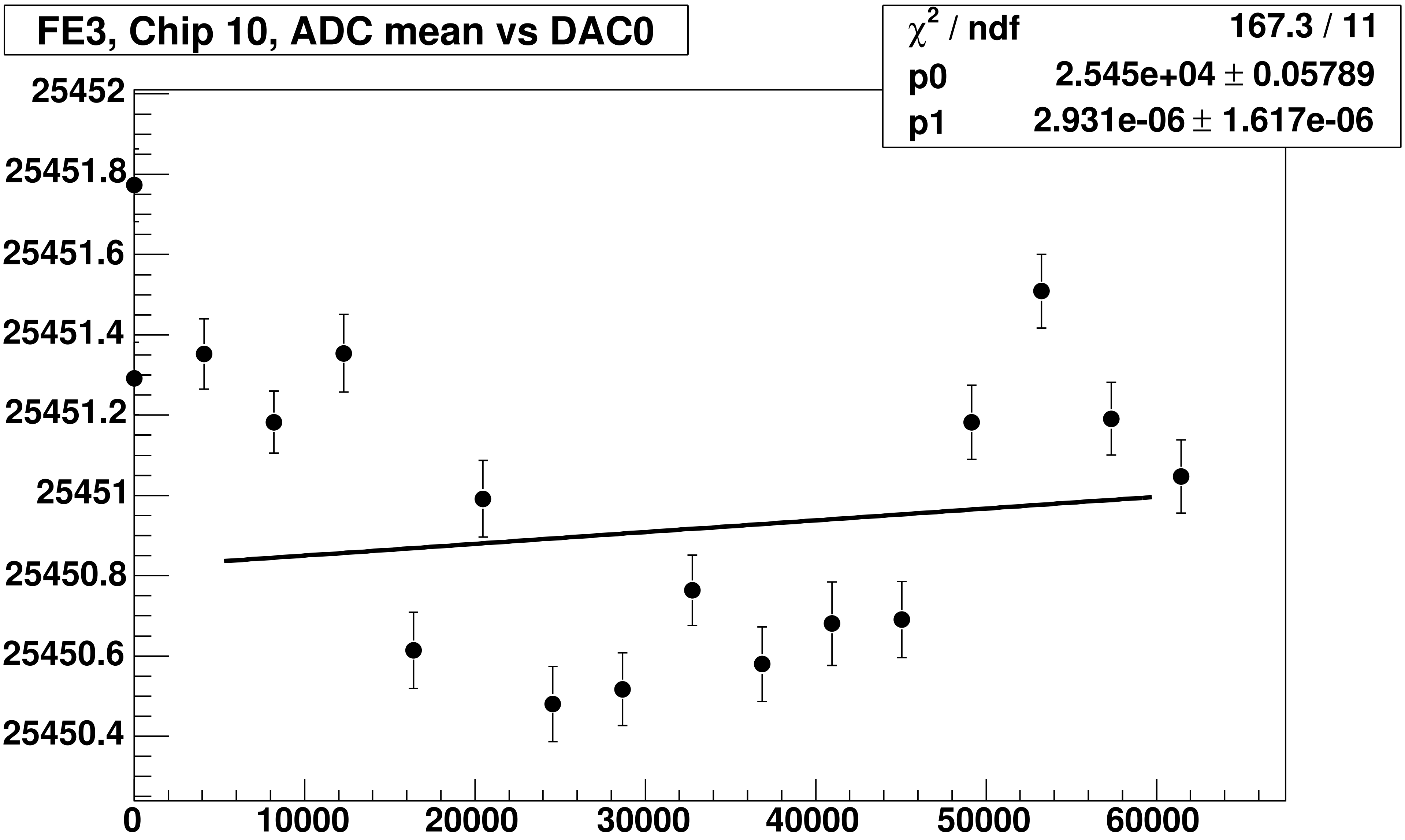

FE3, Chip 9, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000


FE3, Chip 9, ADC mean vs DAC1
χ^2 / ndf 214.4 / 11
p0 2.546e+04 ± 0.0583
p1 8.972e-06 ± 1.599e-06
25463.4
25463.2
25463
25462.8
25462.6
25462.4
25462.2
25462
0
10000
20000
30000
40000
50000
60000

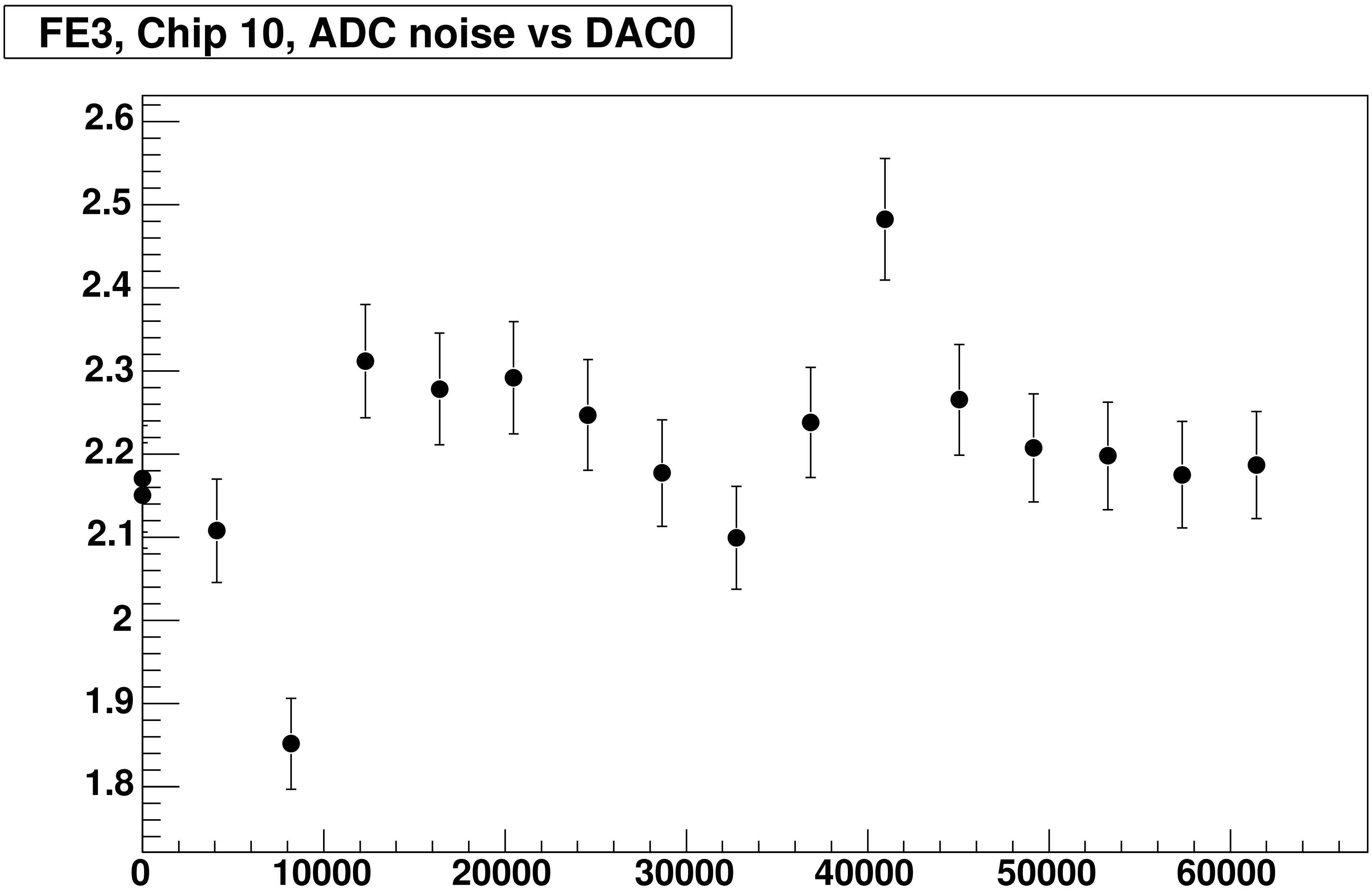

FE3, Chip 9, ADC noise vs DAC1
2.4
2.3
2.2
2.1
2
1.9
0
10000
20000
30000
40000
50000
60000

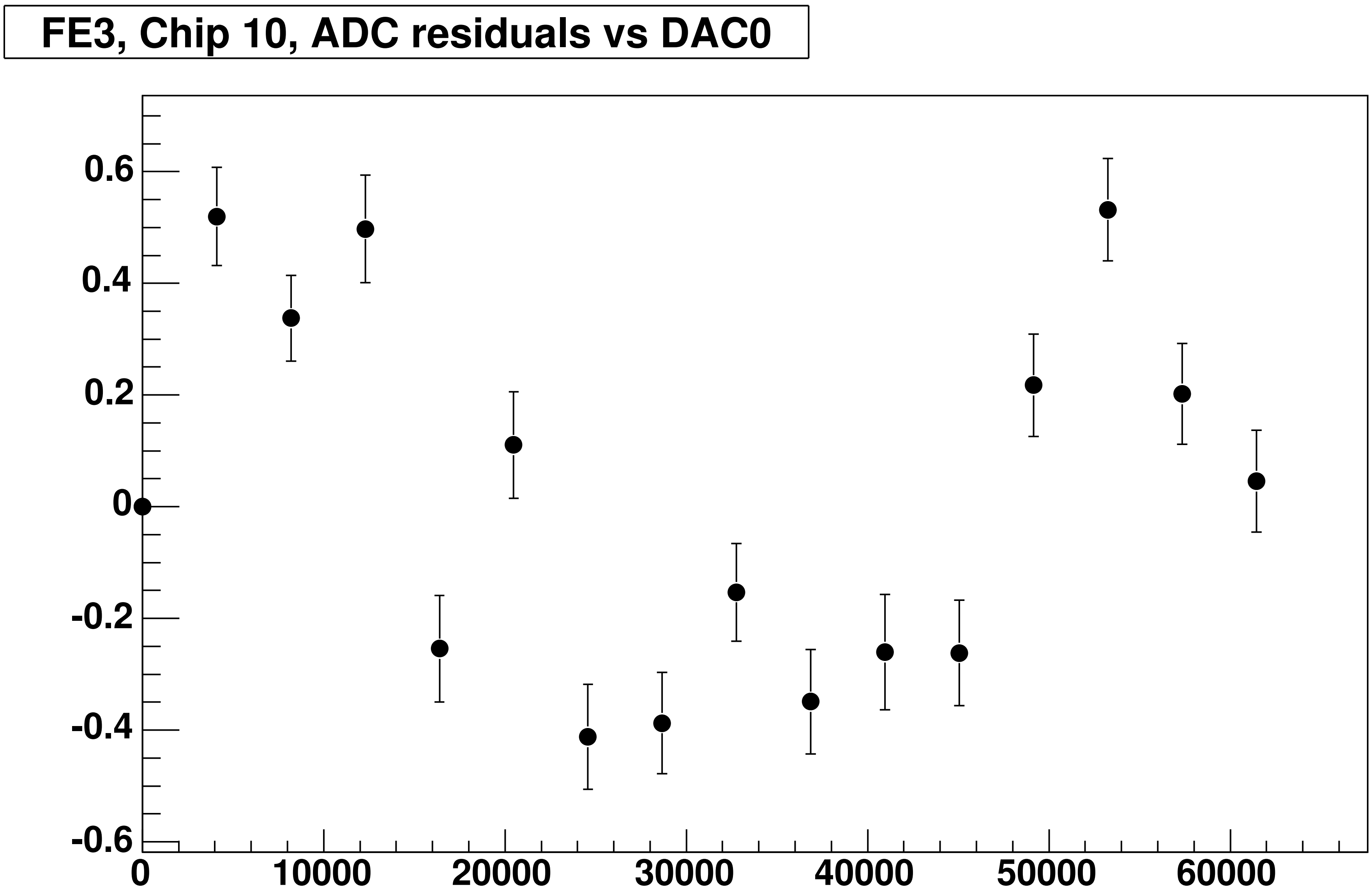


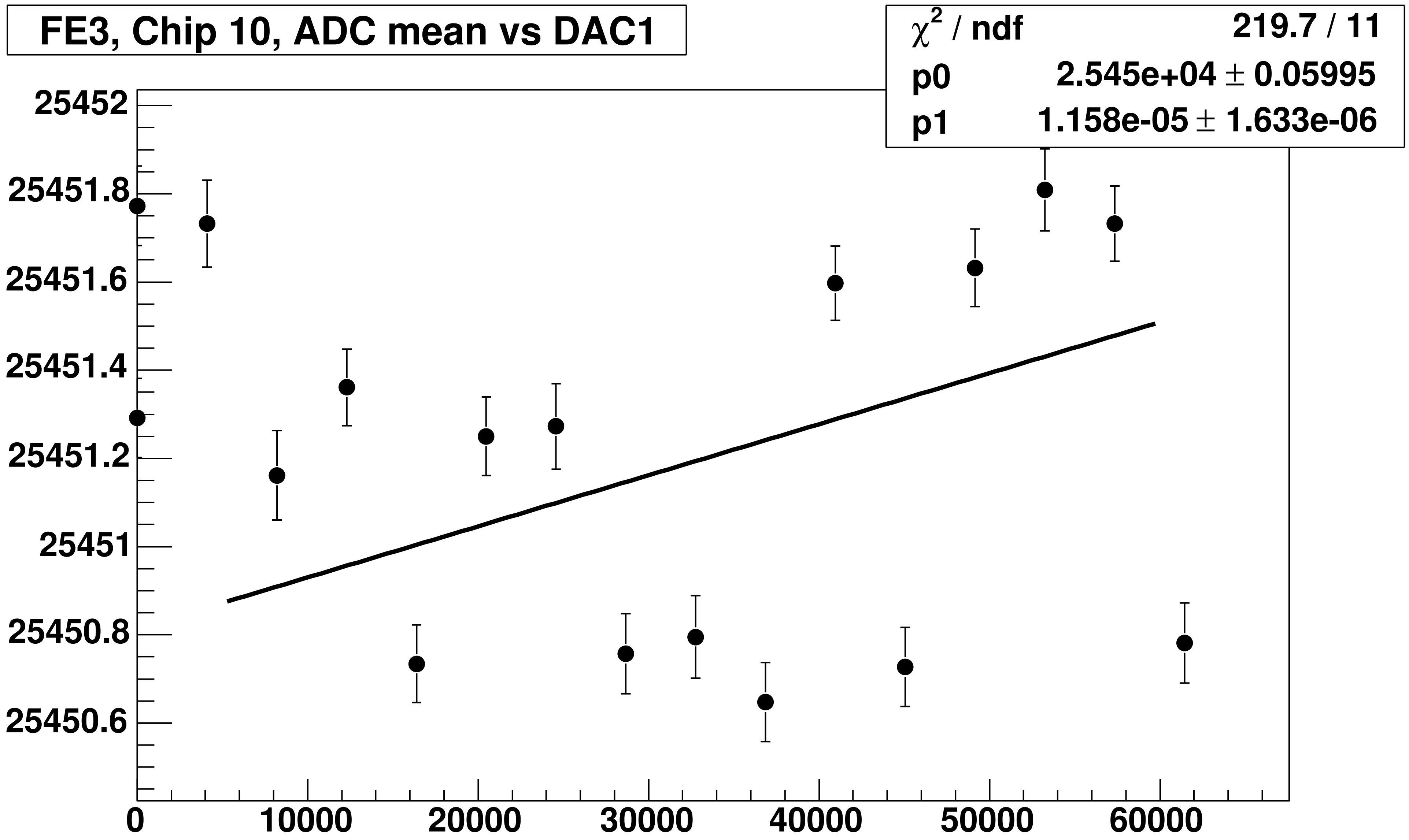
FE3, Chip 9, ADC residuals vs DAC1
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
0
10000
20000
30000
40000
50000
60000



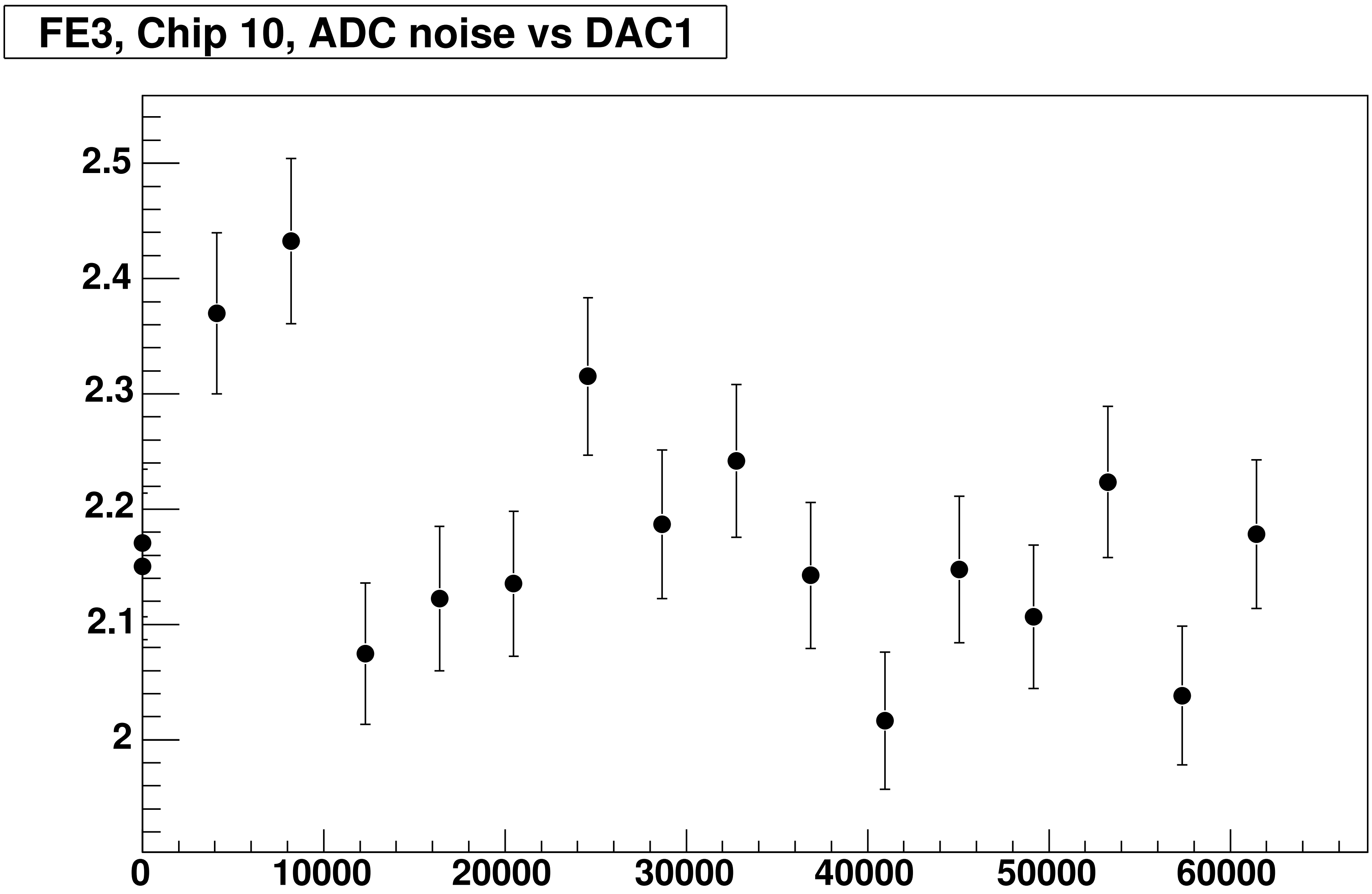
FE3, Chip 10, ADC mean vs DAC0
χ^2 / ndf 167.3 / 11
p0 2.545e+04 ± 0.05789
p1 2.931e-06 ± 1.617e-06
25452
25451.8
25451.6
25451.4
25451.2
25451
25450.8
25450.6
25450.4
0
10000
20000
30000
40000
50000
60000

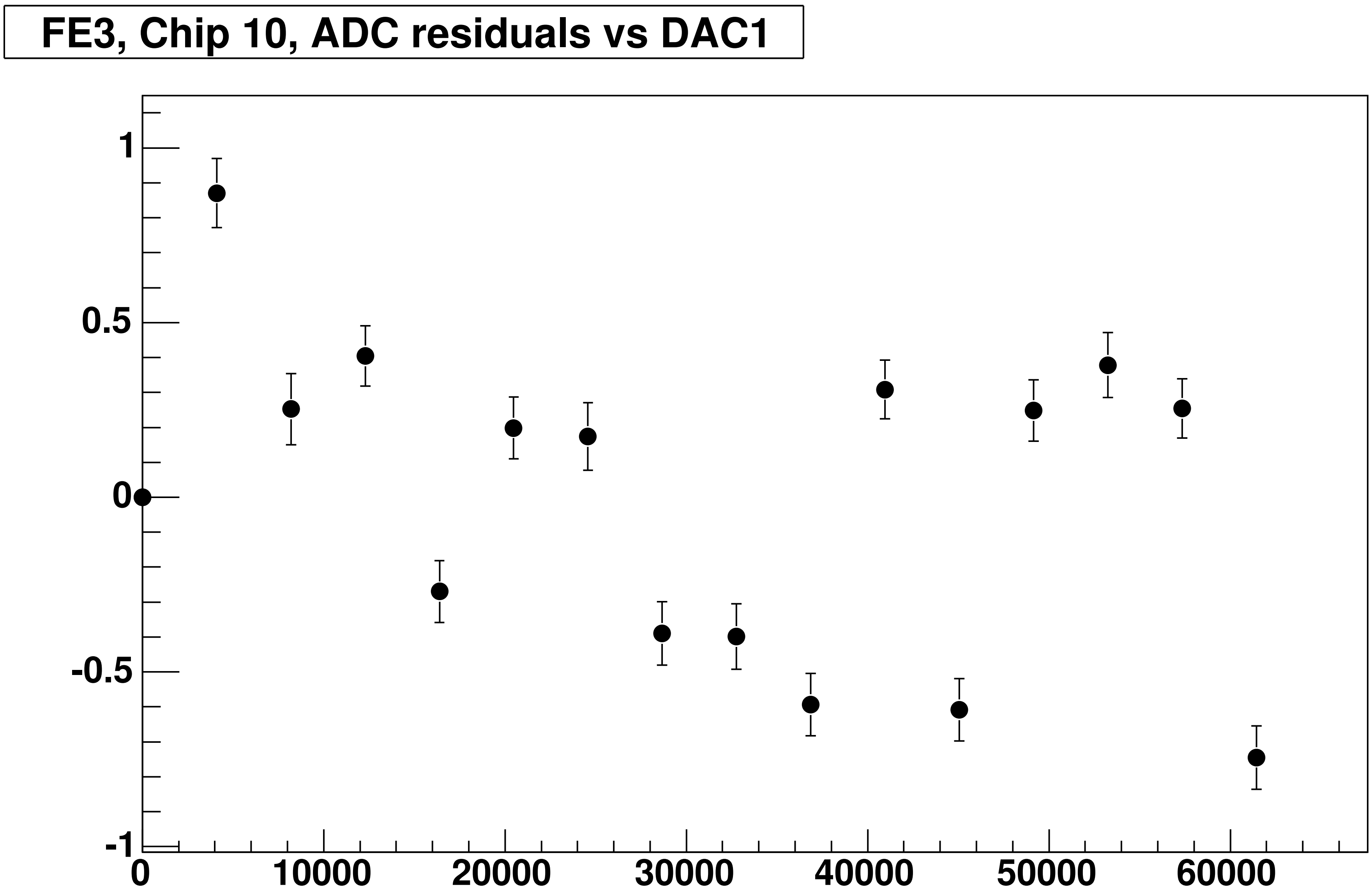

FE3, Chip 10, ADC noise vs DAC0
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
0
10000
20000
30000
40000
50000
60000

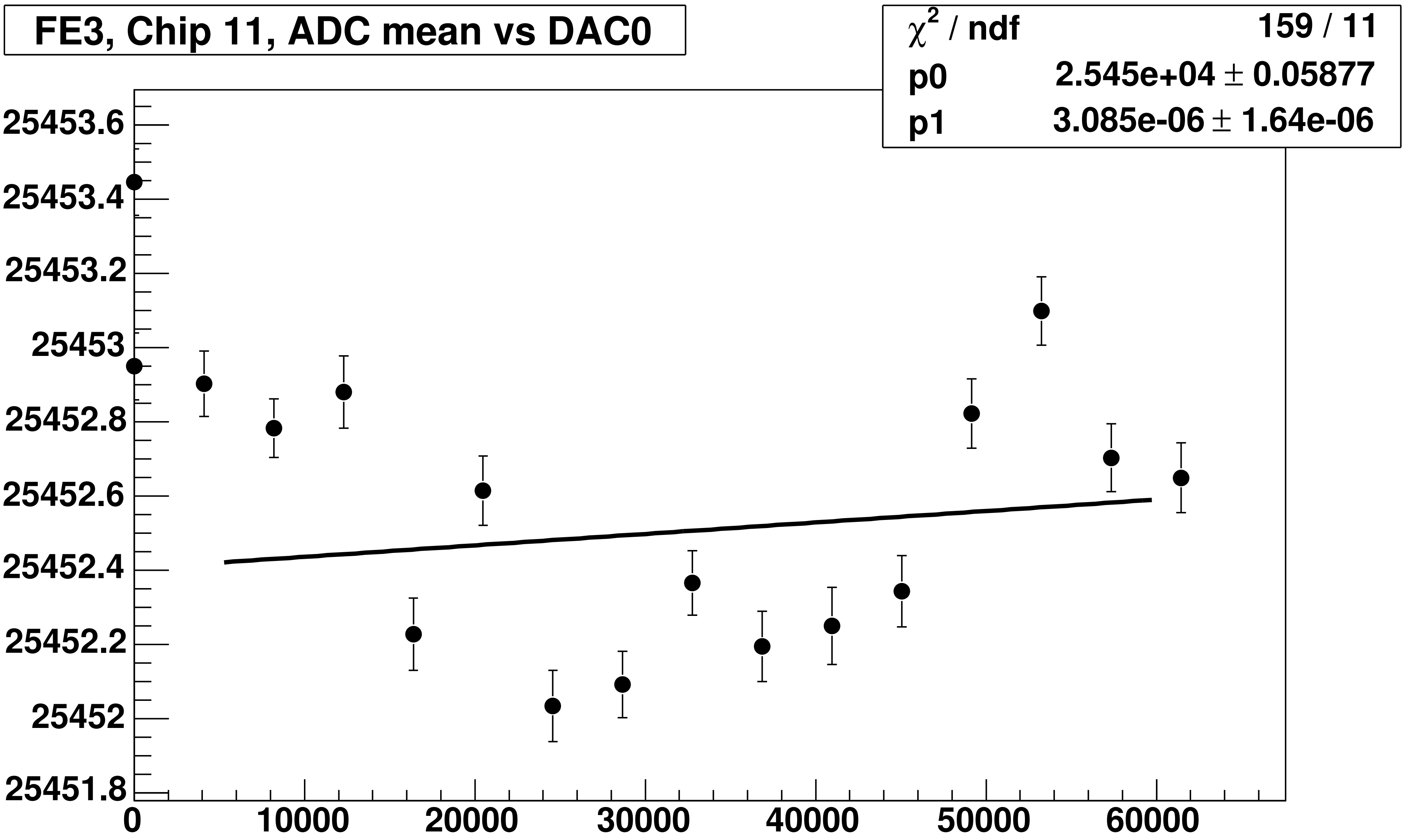

FE3, Chip 10, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000



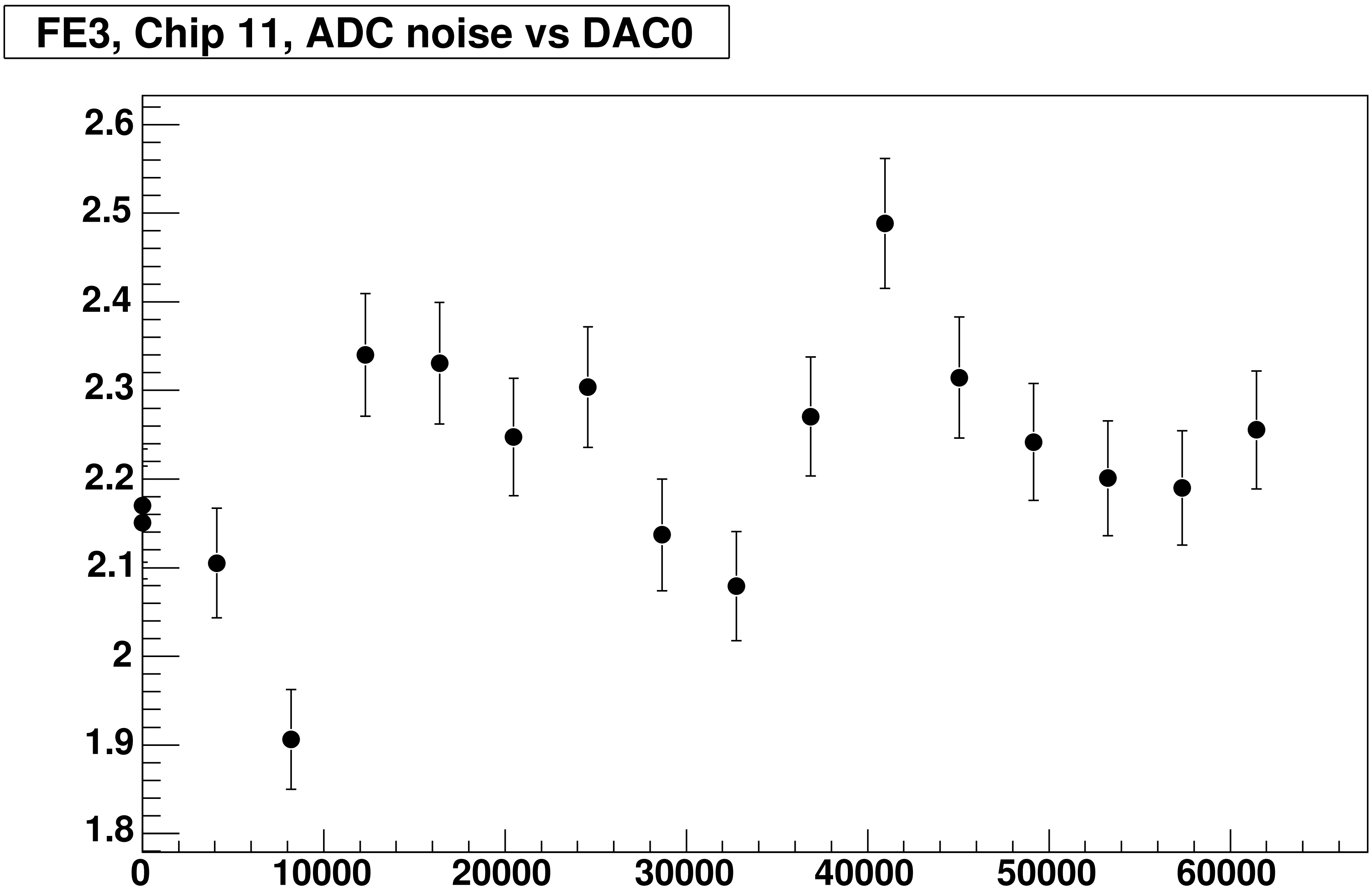
FE3, Chip 10, ADC mean vs DAC1
χ² / ndf 219.7 / 11
p0 2.545e+04 ± 0.05995
p1 1.158e-05 ± 1.633e-06
25452
25451.8
25451.6
25451.4
25451.2
25451
25450.8
25450.6
0
10000
20000
30000
40000
50000
60000


FE3, Chip 10, ADC noise vs DAC1
2.5
2.4
2.3
2.2
2.1
2
0
10000
20000
30000
40000
50000
60000

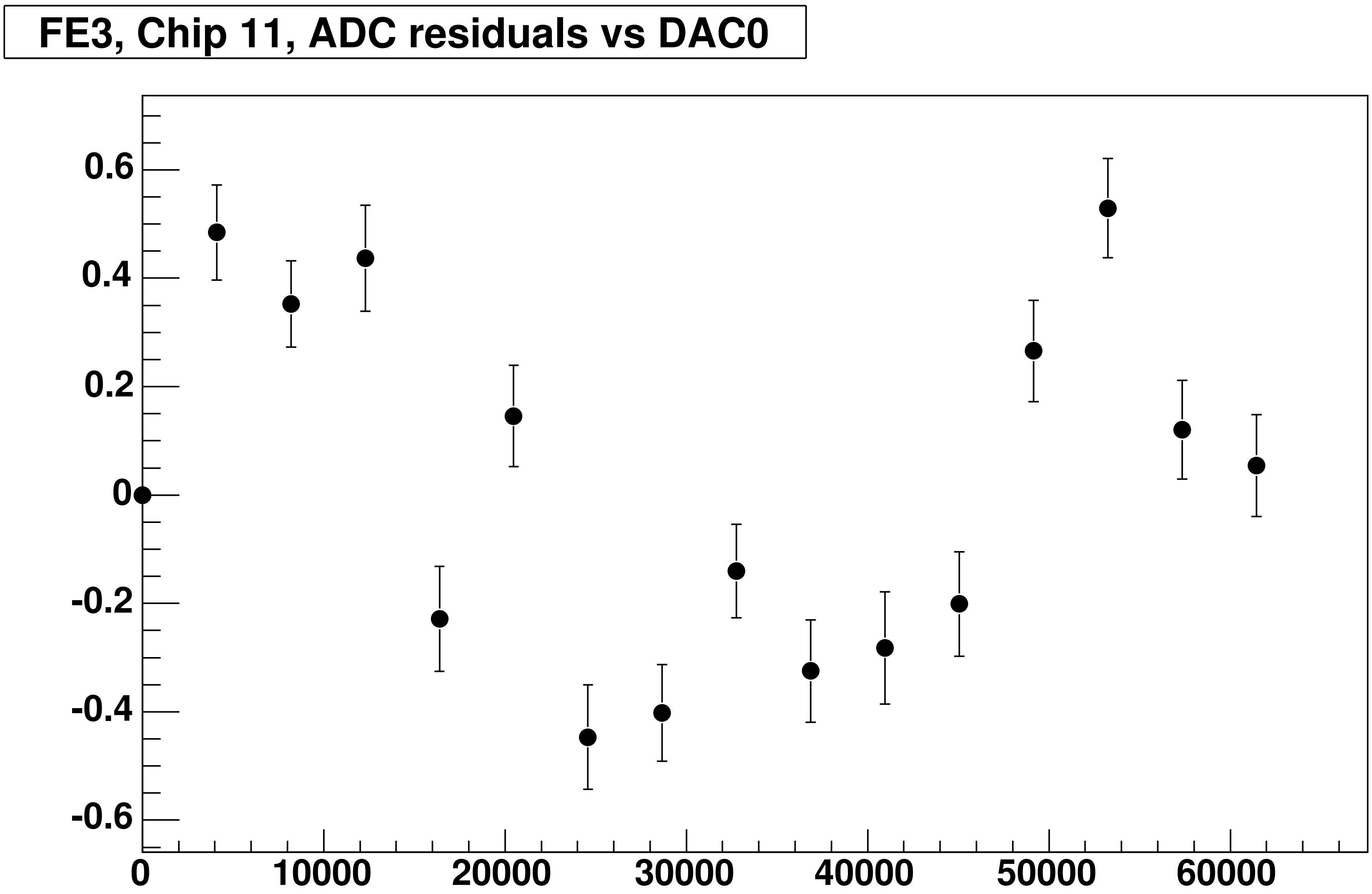

FE3, Chip 10, ADC residuals vs DAC1
1
0.5
0
-0.5
-1
0
10000
20000
30000
40000
50000
60000

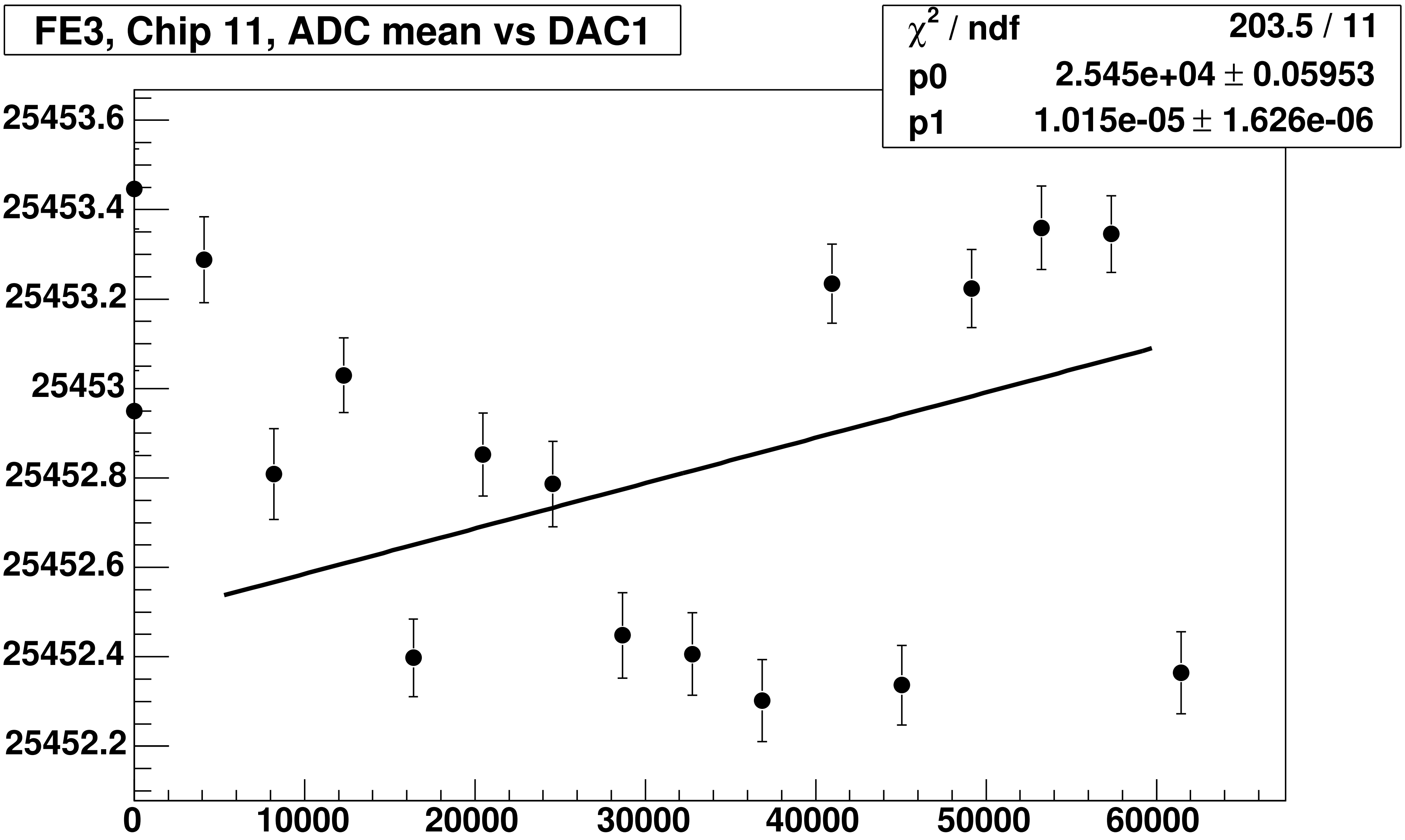


FE3, Chip 11, ADC mean vs DAC0
χ^2 / ndf 159 / 11
p0 2.545e+04 ± 0.05877
p1 3.085e-06 ± 1.64e-06
25453.6
25453.4
25453.2
25453
25452.8
25452.6
25452.4
25452.2
25452
25451.8
0
10000
20000
30000
40000
50000
60000

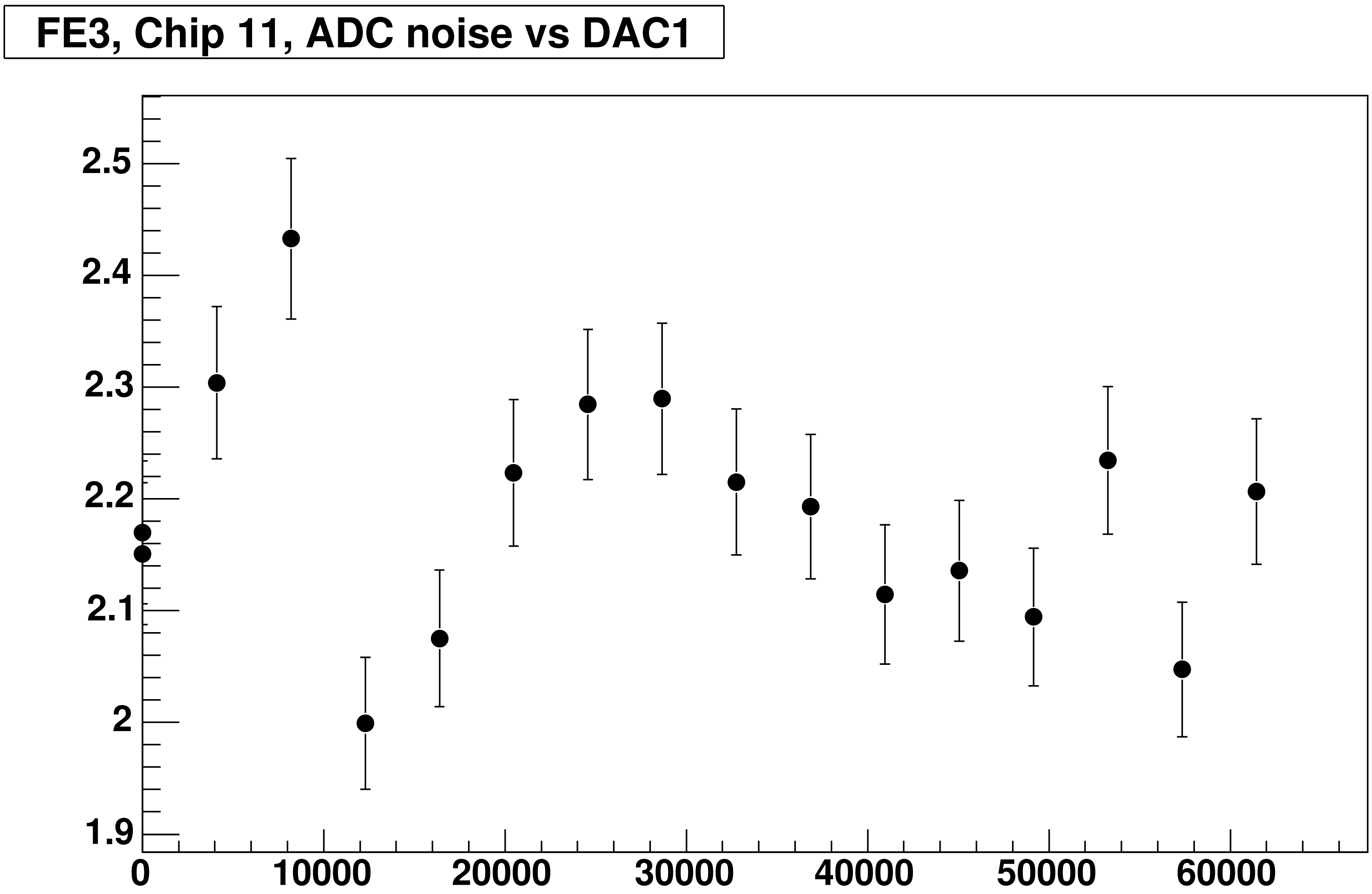


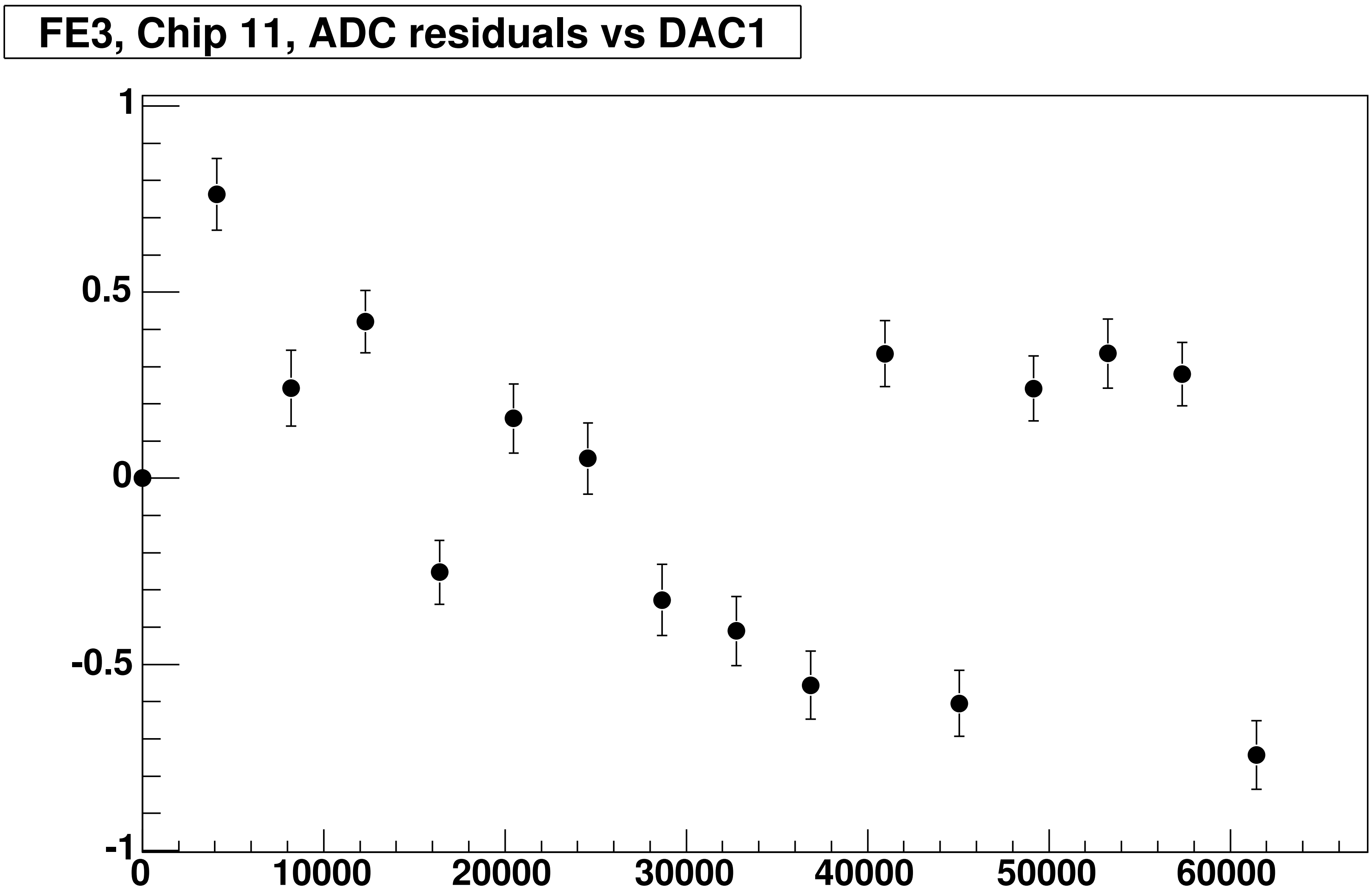
FE3, Chip 11, ADC noise vs DAC0
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
0
10000
20000
30000
40000
50000
60000

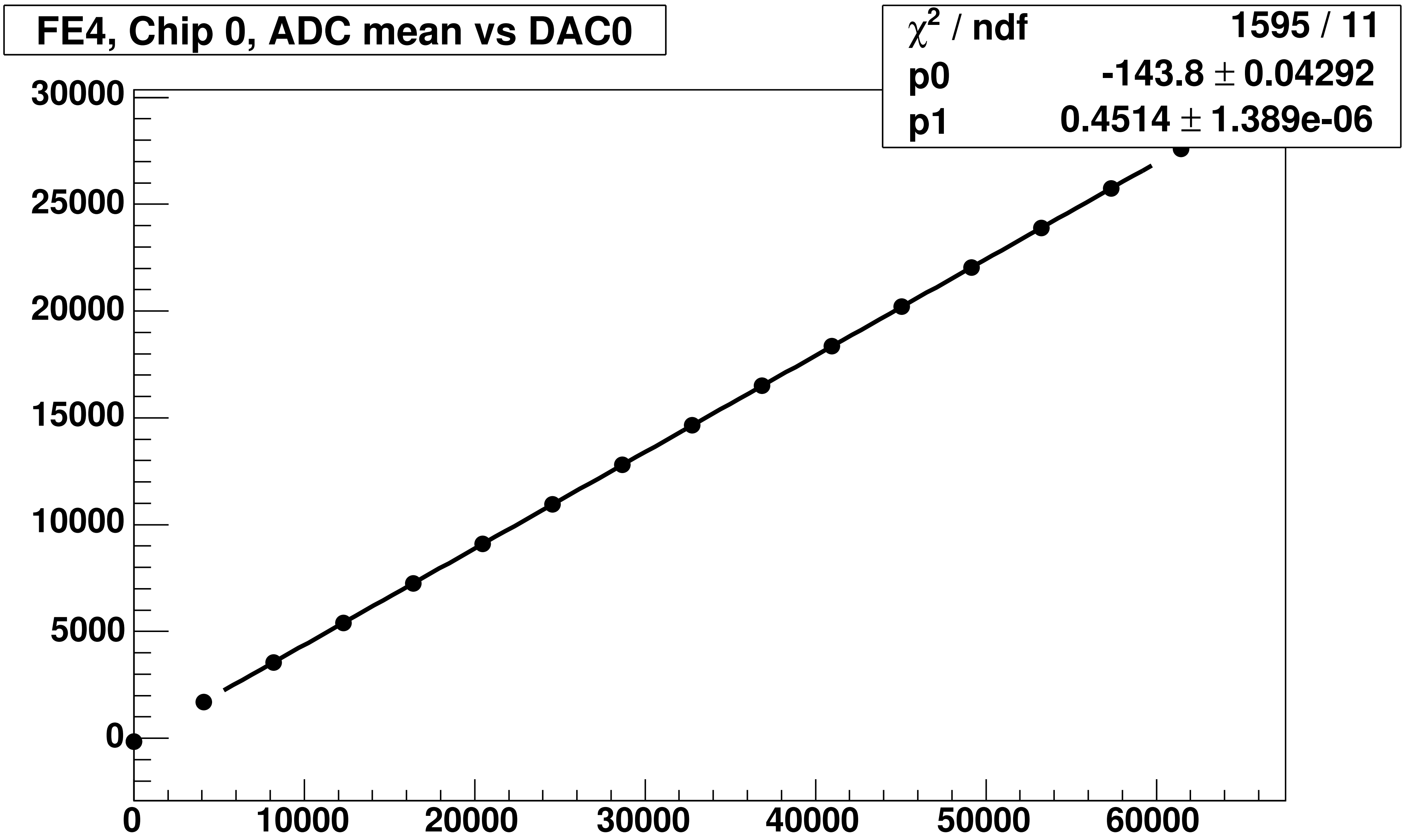

FE3, Chip 11, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

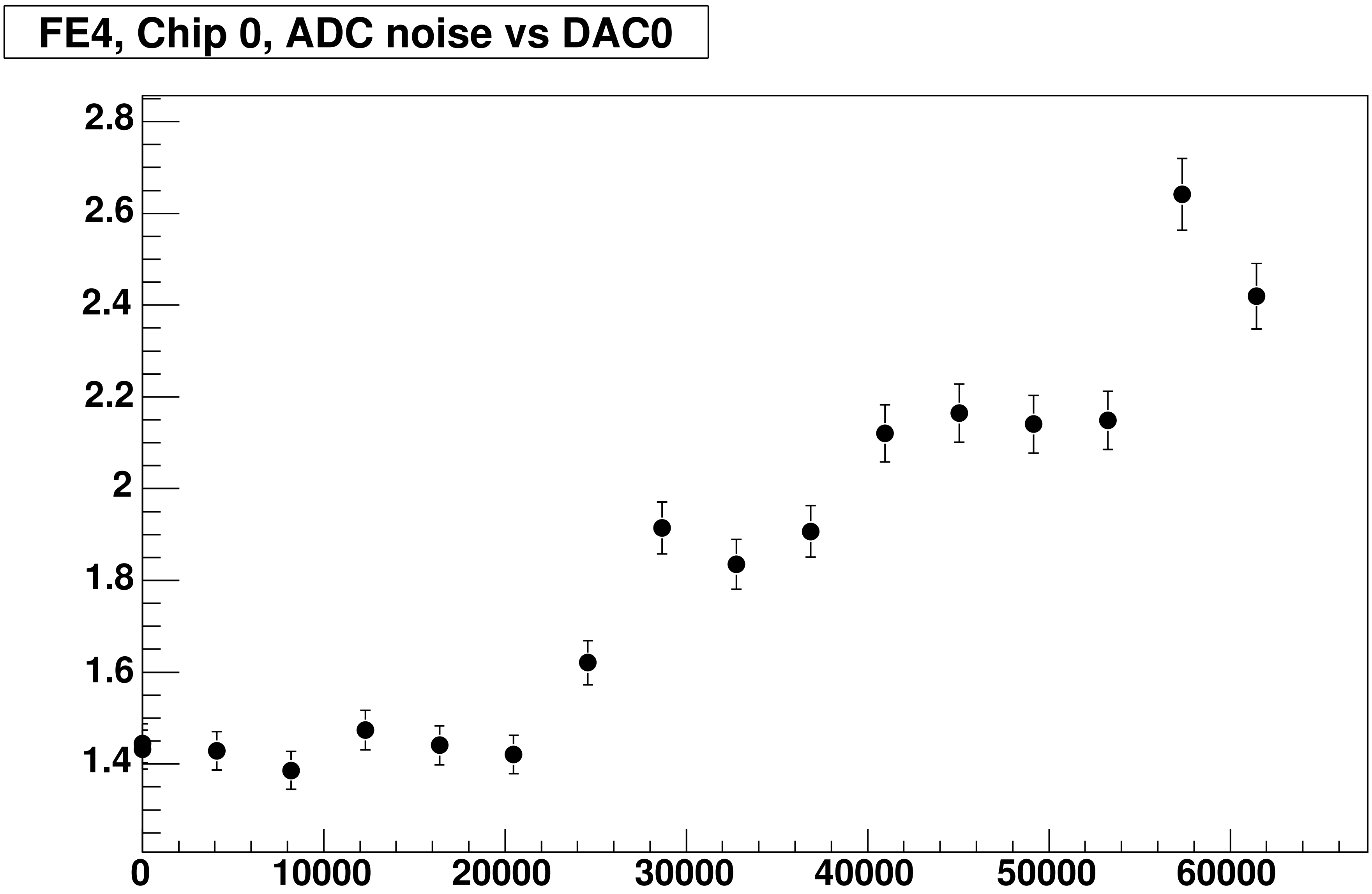


FE3, Chip 11, ADC mean vs DAC1
χ^2 / ndf 203.5 / 11
p0 2.545e+04 ± 0.05953
p1 1.015e-05 ± 1.626e-06
25453.6
25453.4
25453.2
25453
25452.8
25452.6
25452.4
25452.2
0
10000
20000
30000
40000
50000
60000

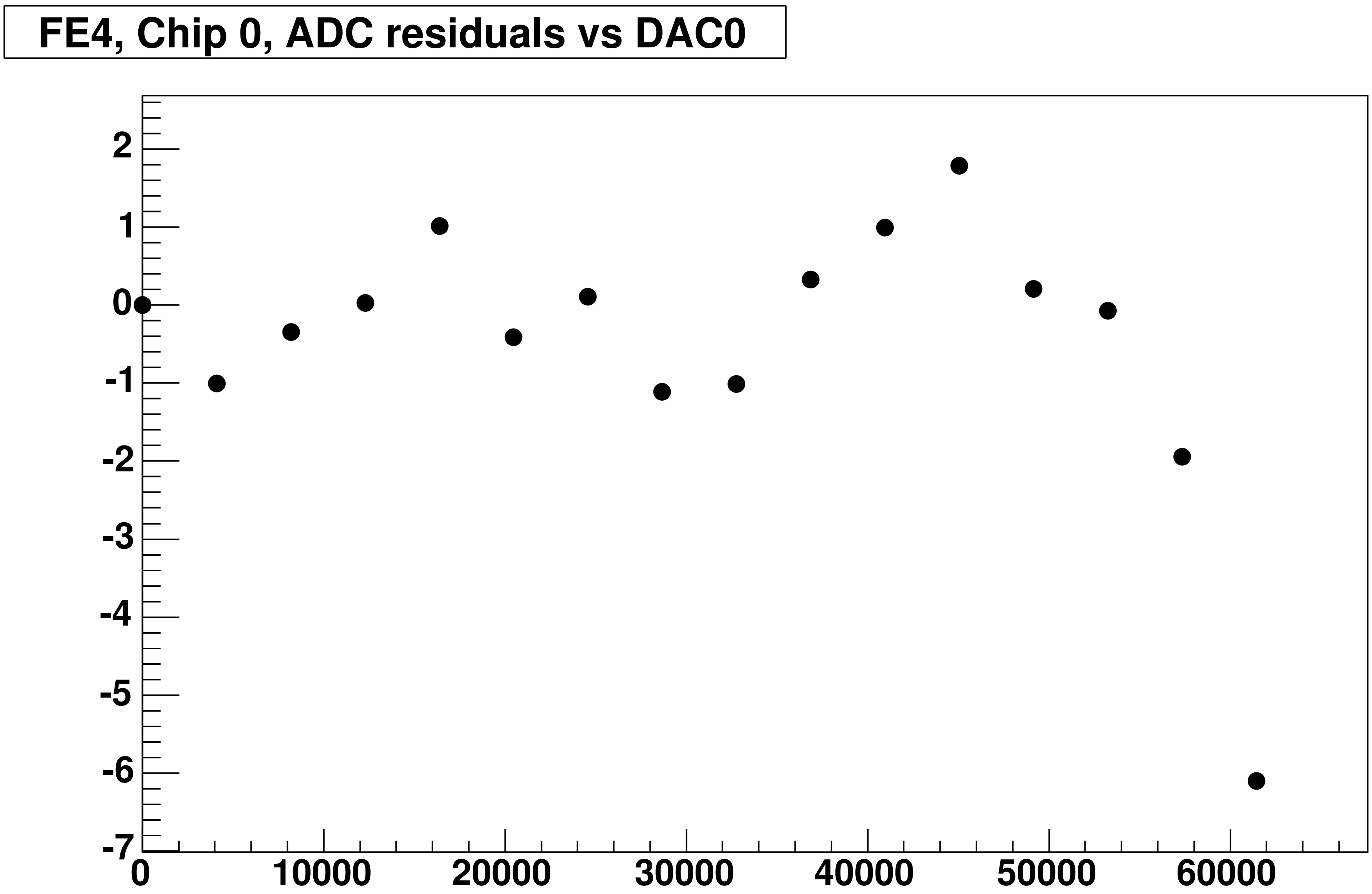

FE3, Chip 11, ADC noise vs DAC1
2.5
2.4
2.3
2.2
2.1
2
1.9
0
10000
20000
30000
40000
50000
60000

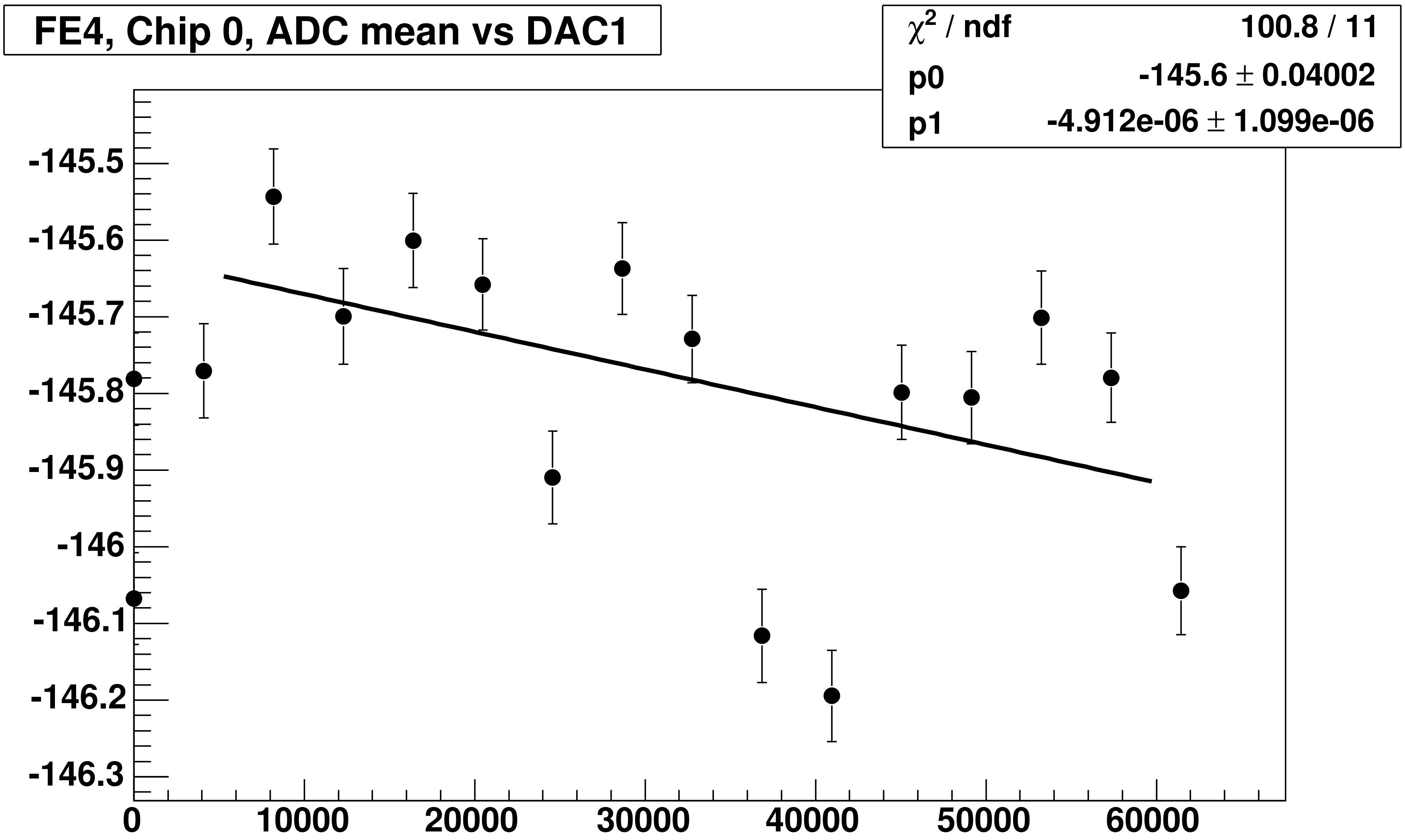

FE3, Chip 11, ADC residuals vs DAC1
1
0.5
0
-0.5
-1
0
10000
20000
30000
40000
50000
60000

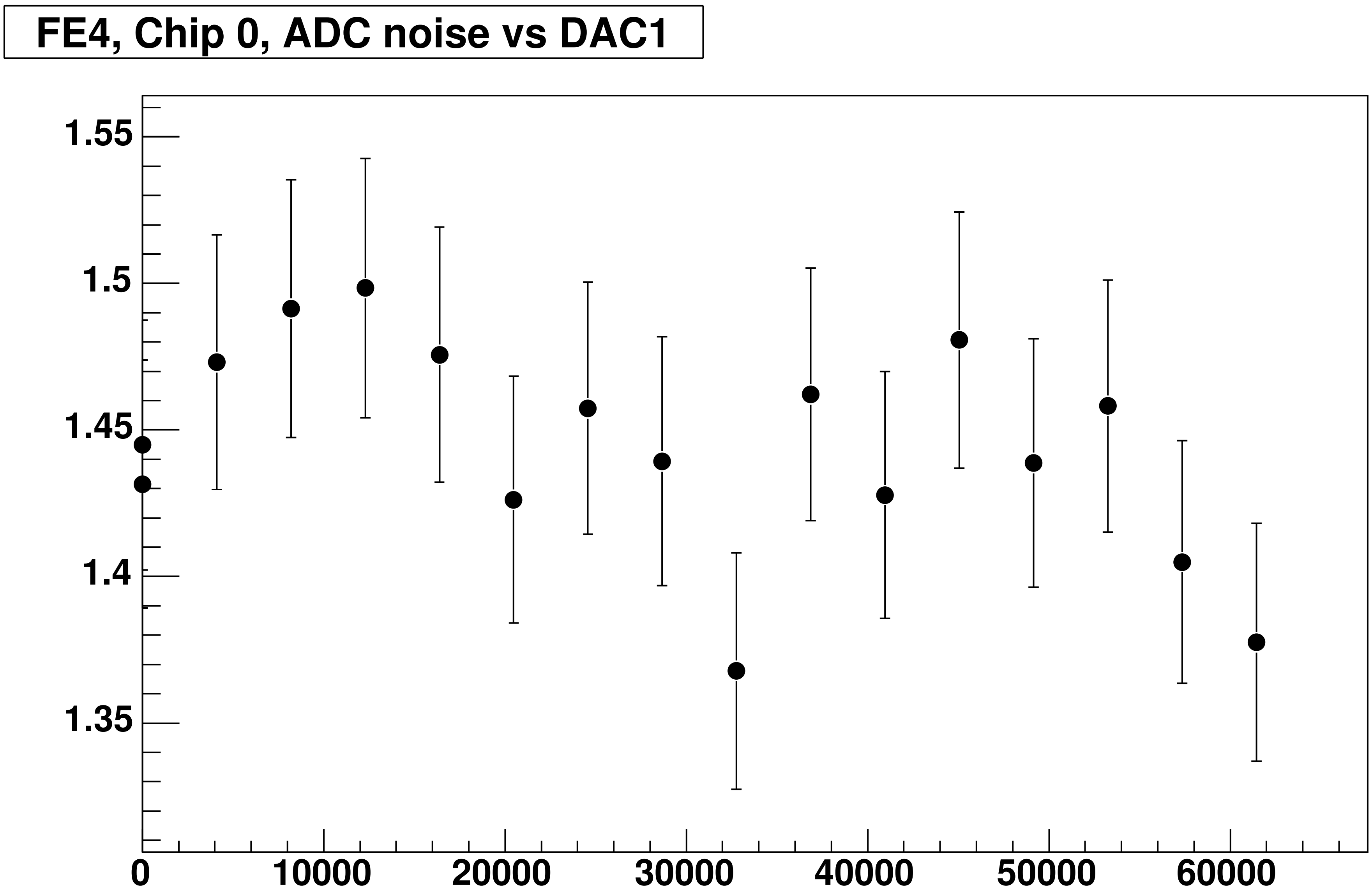

FE4, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1595 / 11
p0 -143.8 ± 0.04292
p1 0.4514 ± 1.389e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

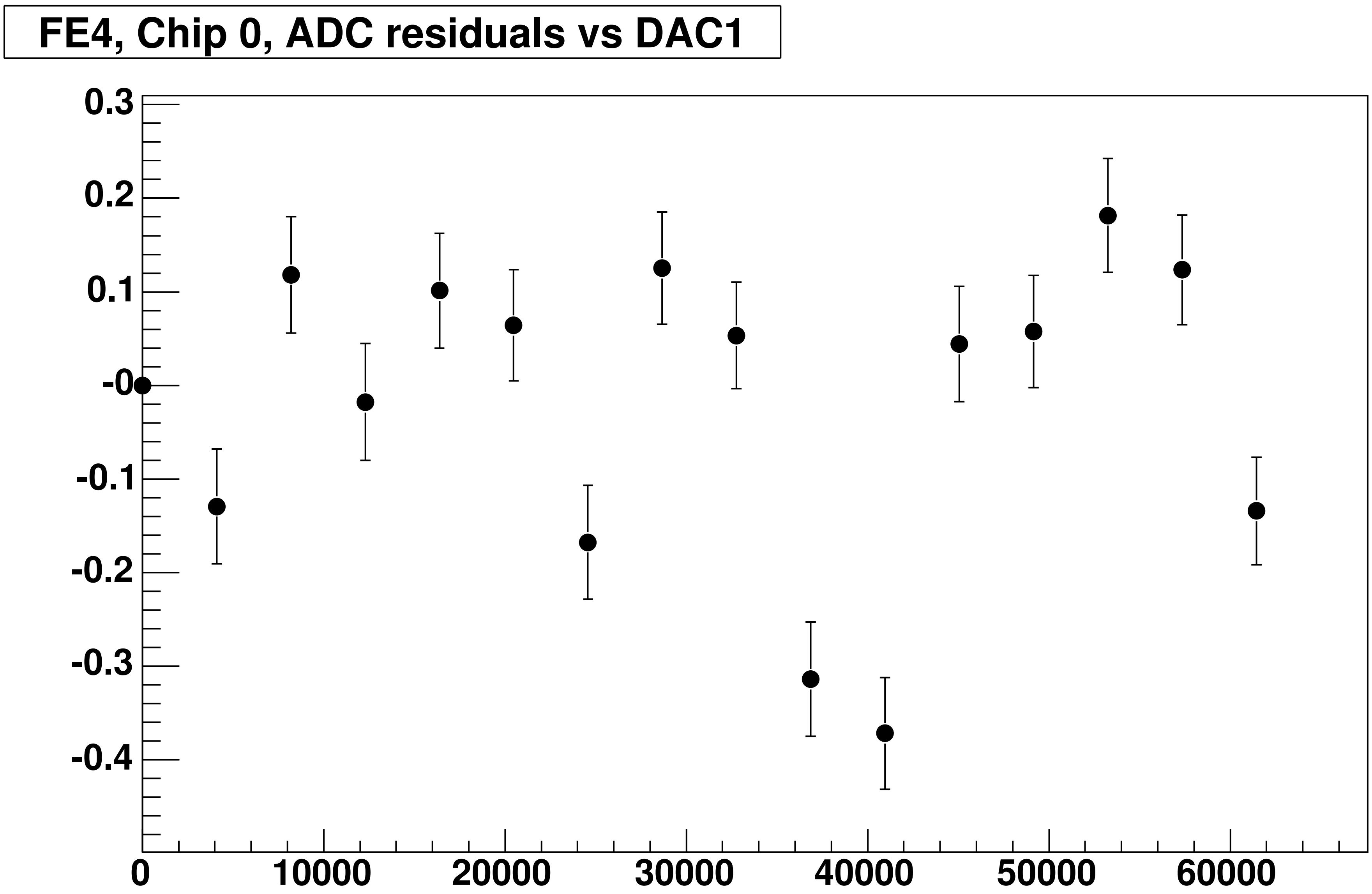


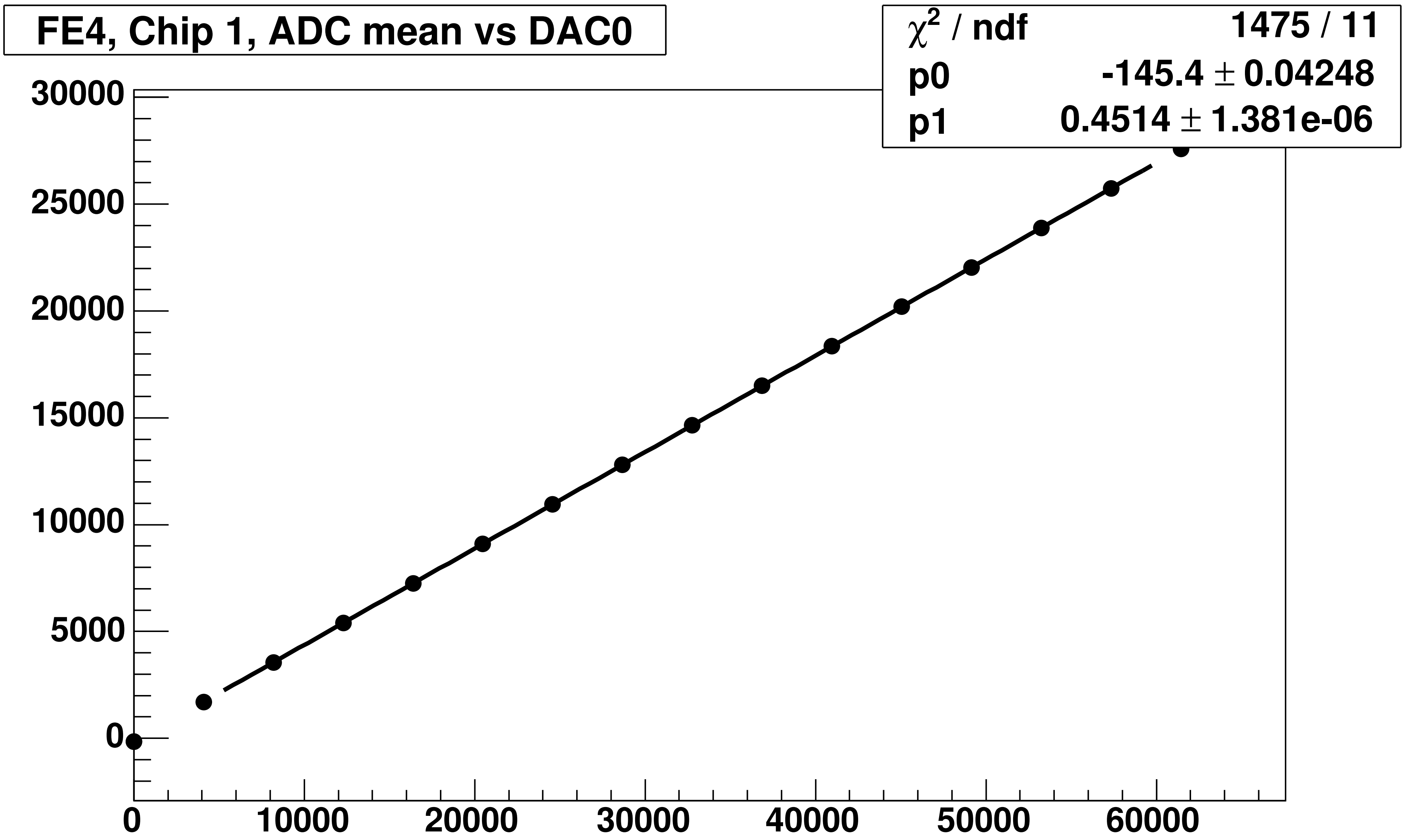
FE4, Chip 0, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

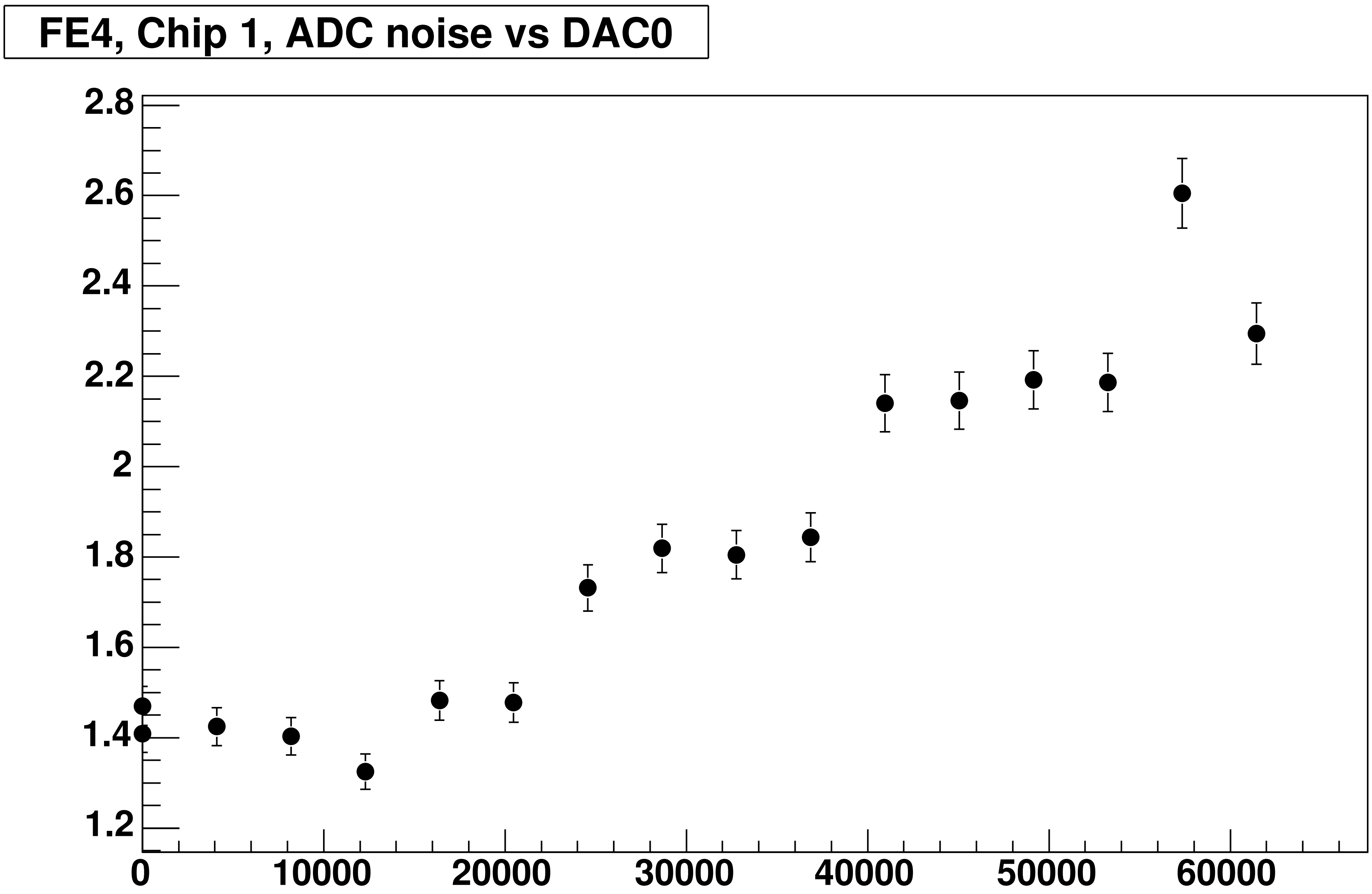

FE4, Chip 0, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

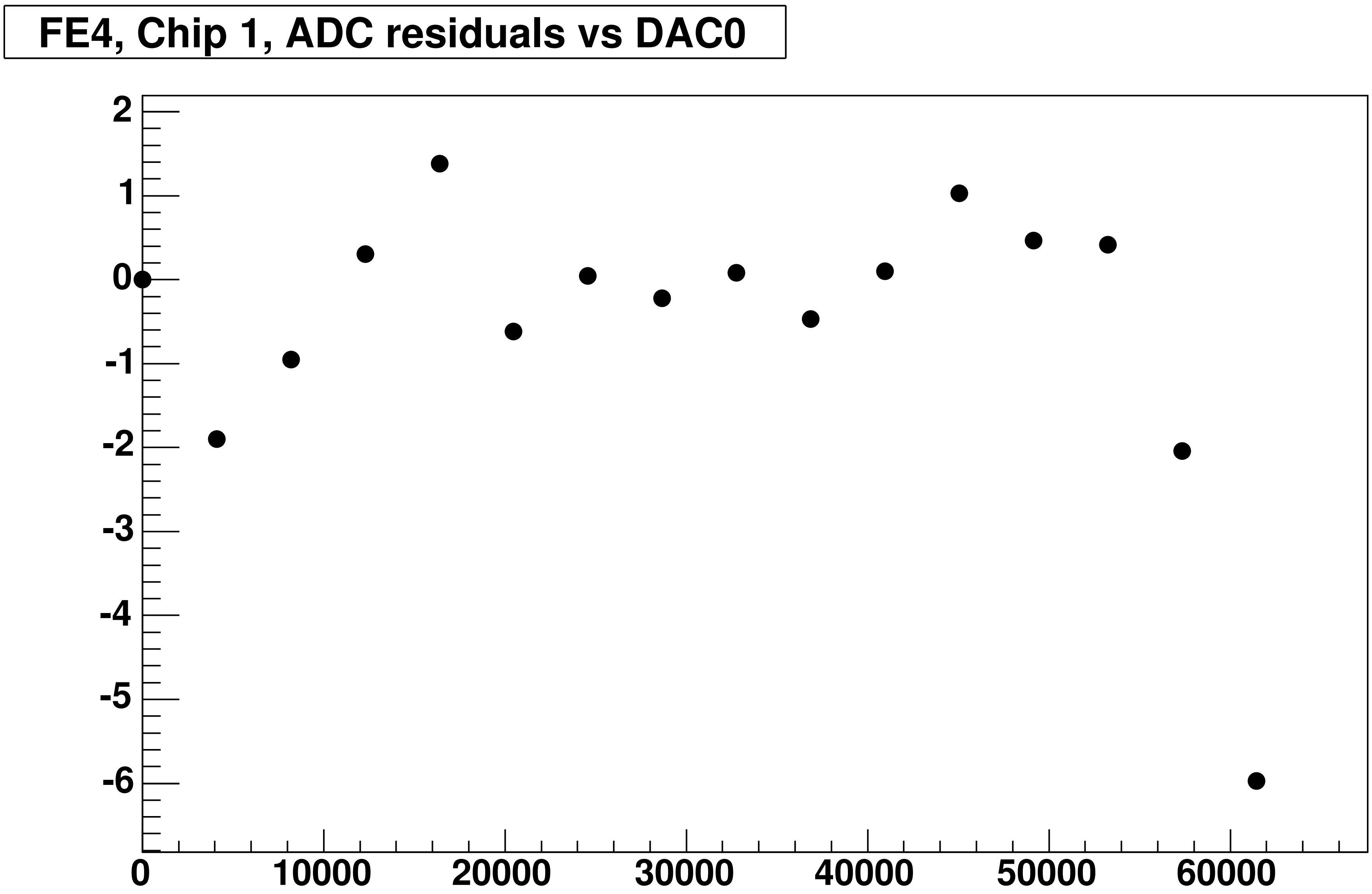

FE4, Chip 0, ADC mean vs DAC1
χ^2 / ndf 100.8 / 11
p0 -145.6 ± 0.04002
p1 -4.912e-06 ± 1.099e-06
-145.5
-145.6
-145.7
-145.8
-145.9
-146
-146.1
-146.2
-146.3
0
10000
20000
30000
40000
50000
60000


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

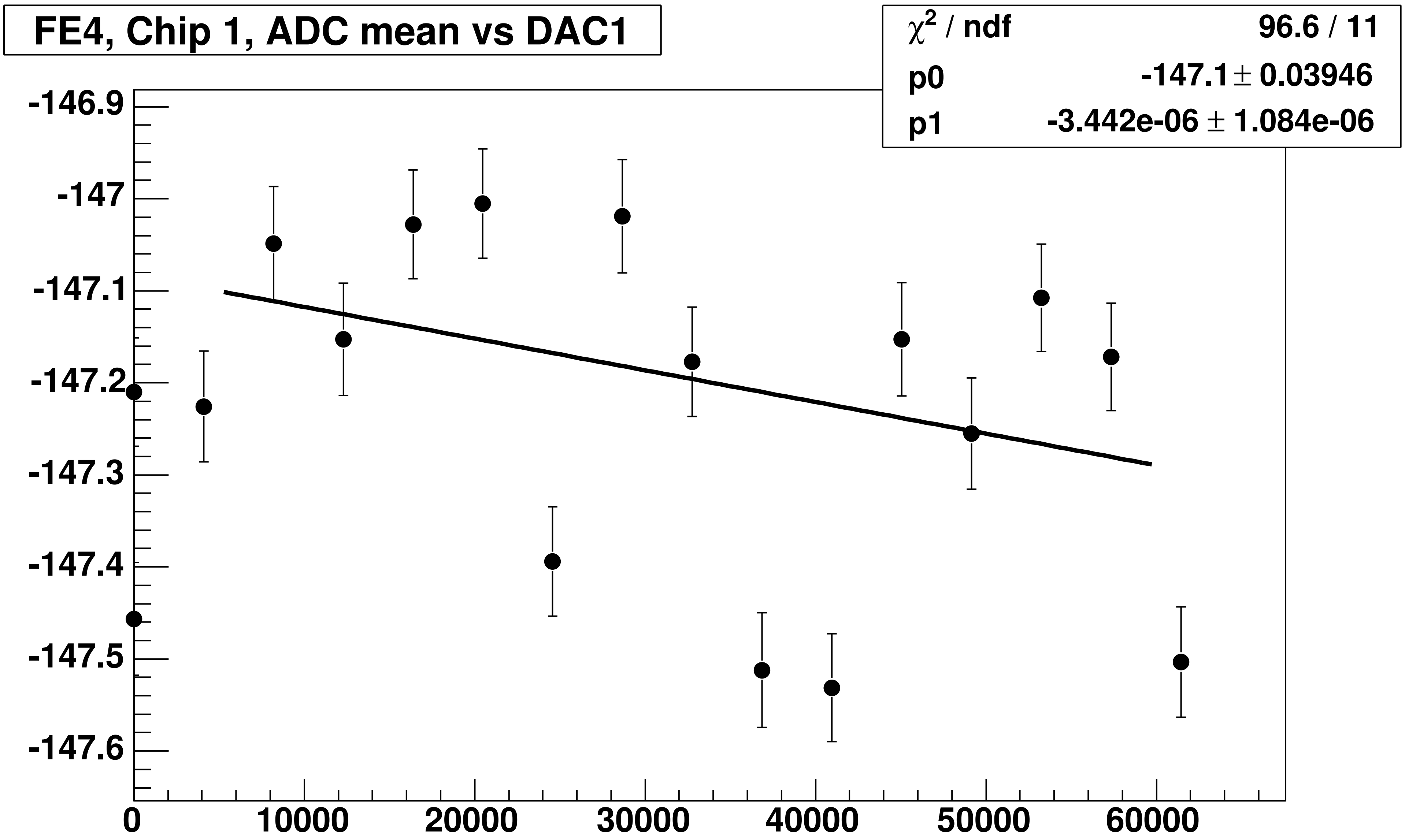

FE4, Chip 0, ADC residuals vs DAC1
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

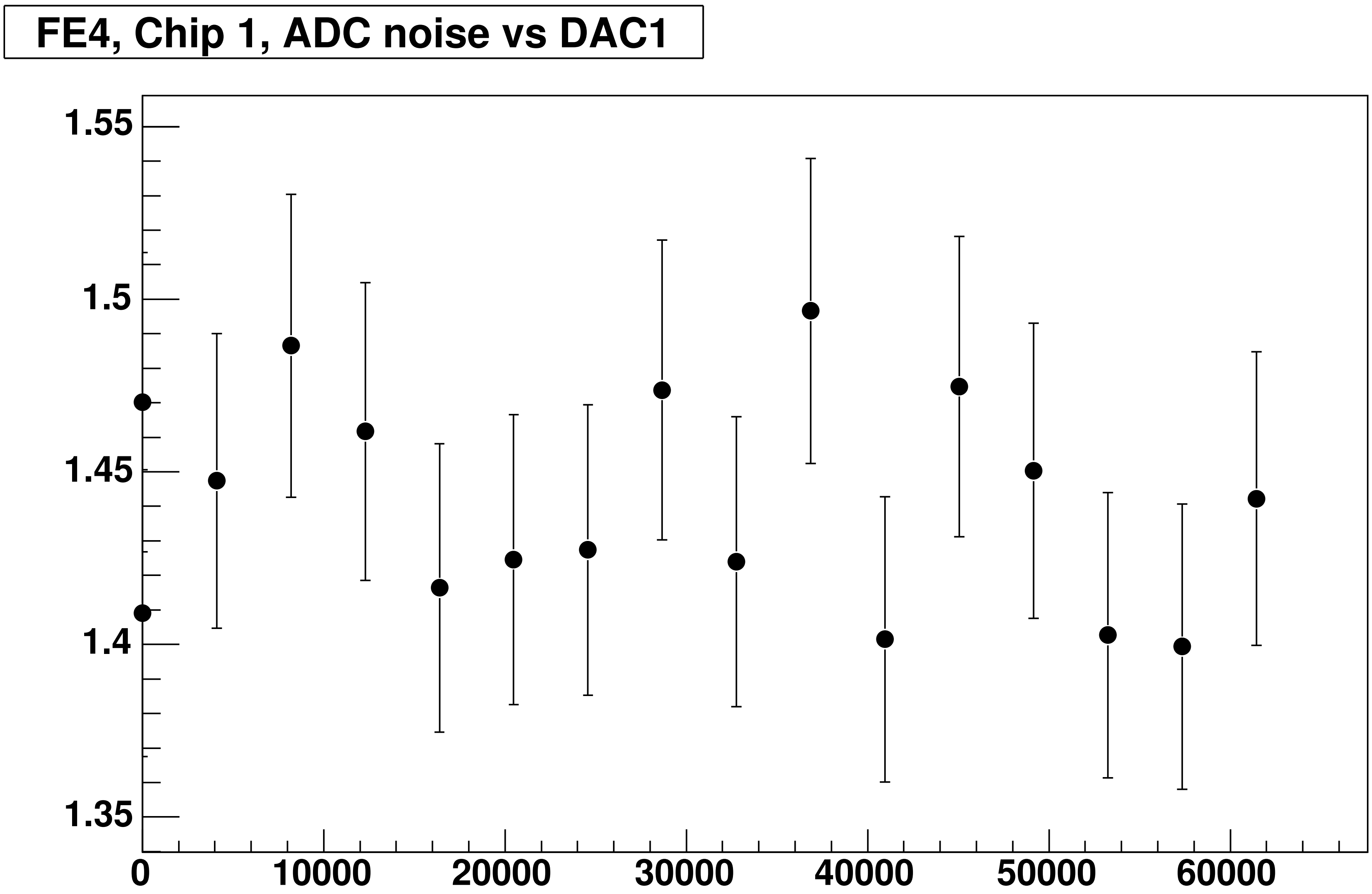

FE4, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1475 / 11
p0 -145.4 ± 0.04248
p1 0.4514 ± 1.381e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

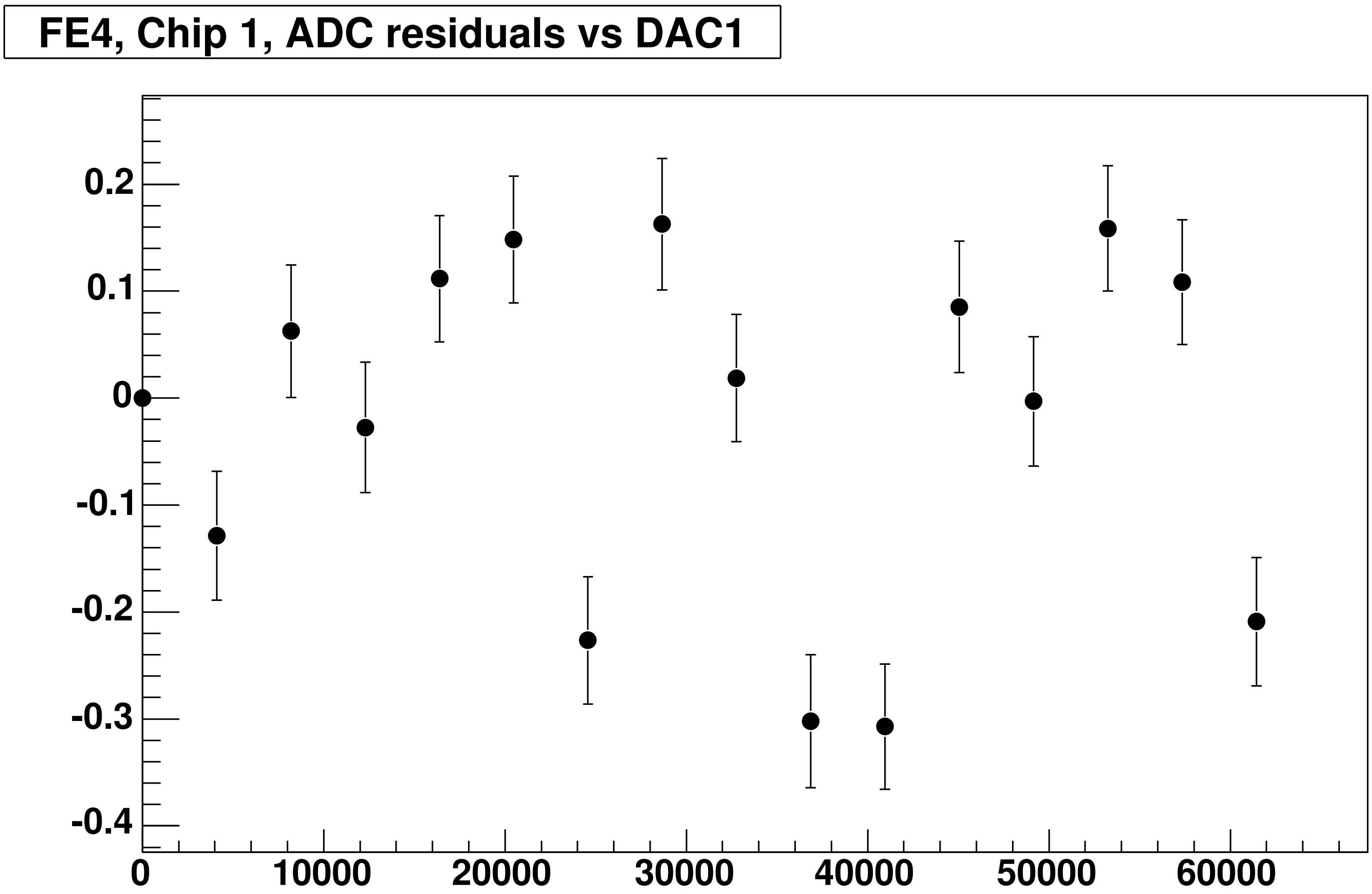

FE4, Chip 1, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

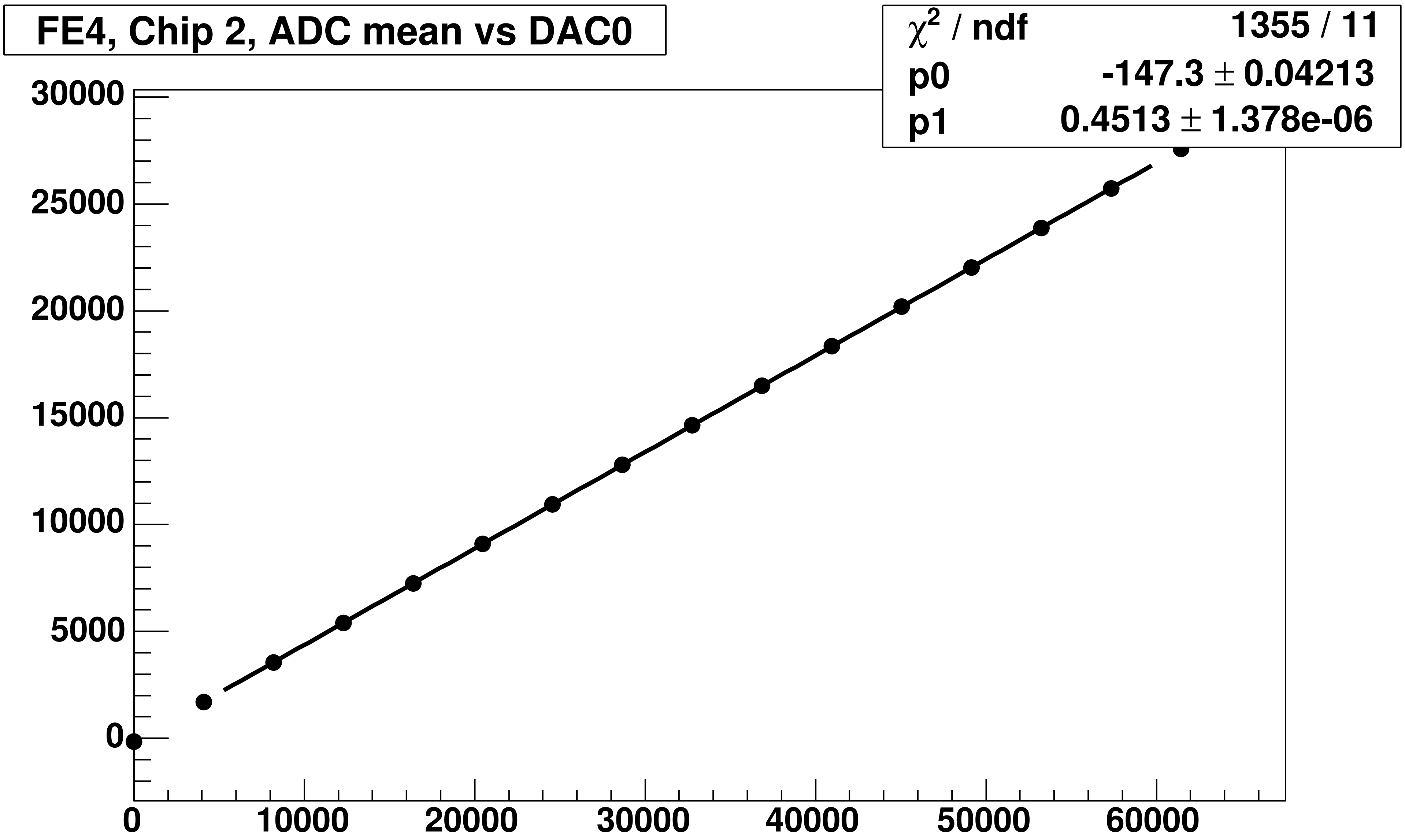


FE4, Chip 1, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

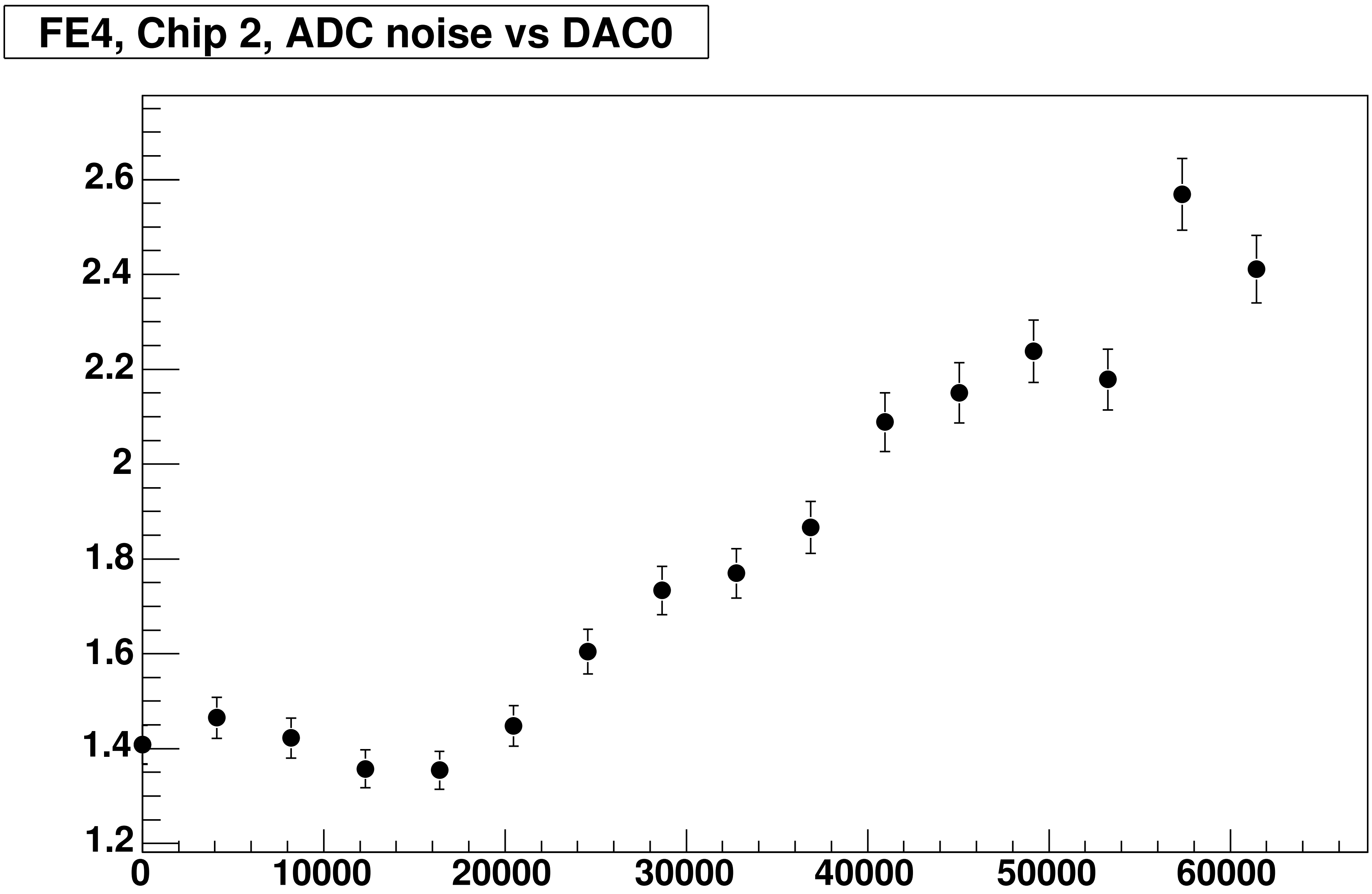

FE4, Chip 1, ADC mean vs DAC1
χ^2 / ndf 96.6 / 11
p0 -147.1 ± 0.03946
p1 -3.442e-06 ± 1.084e-06
-146.9
-147
-147.1
-147.2
-147.3
-147.4
-147.5
-147.6
0
10000
20000
30000
40000
50000
60000

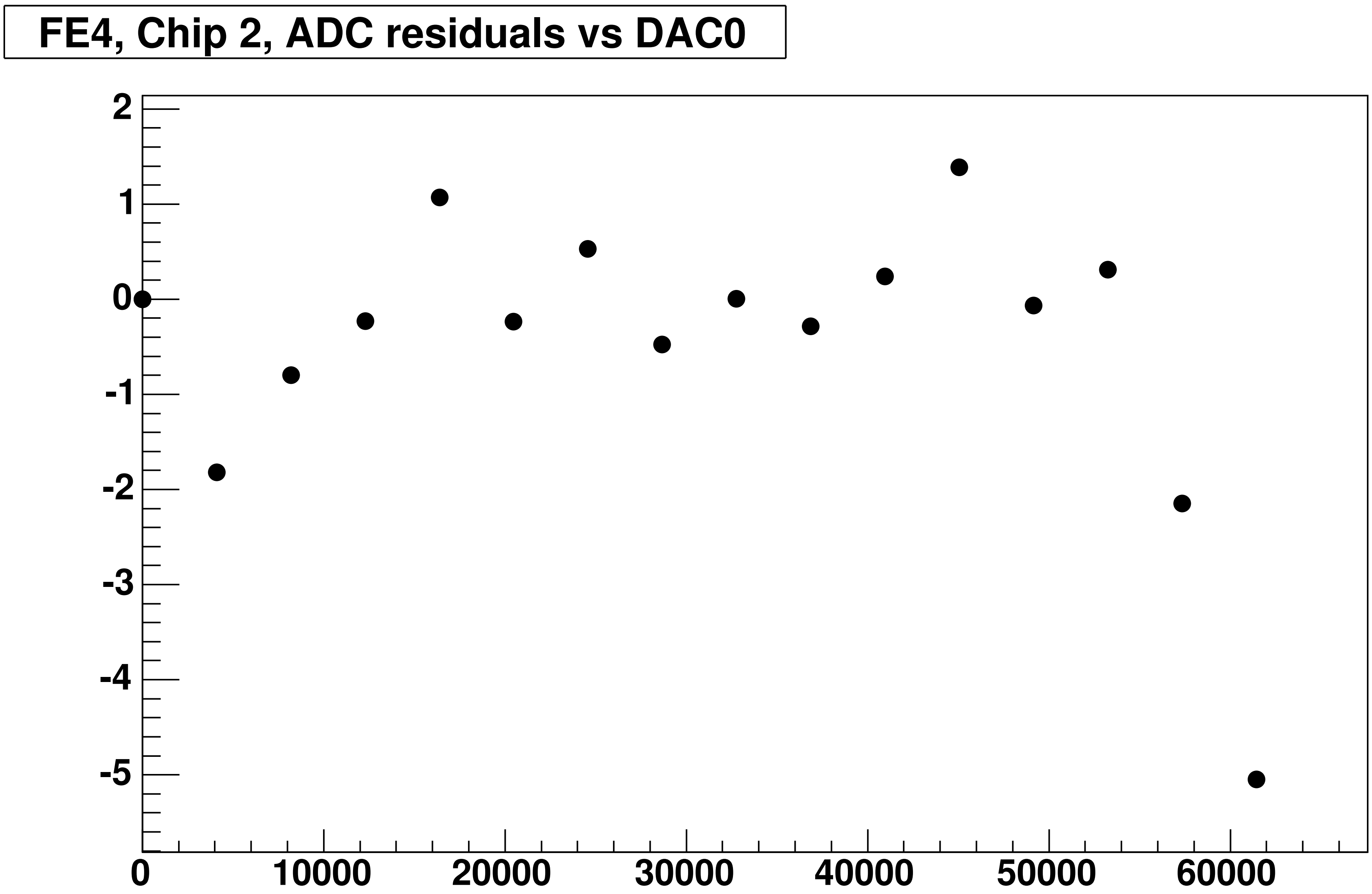

FE4, Chip 1, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE4, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

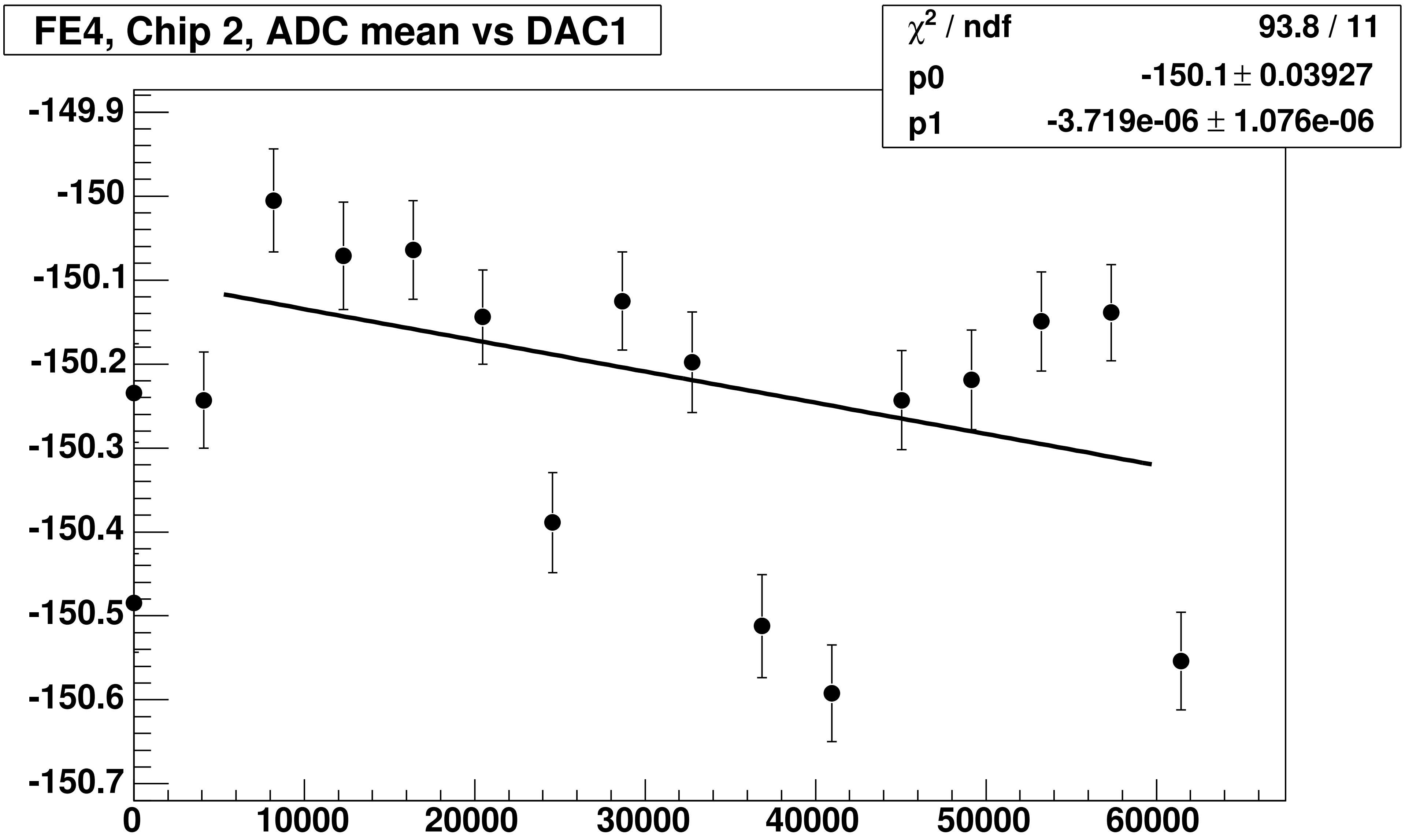


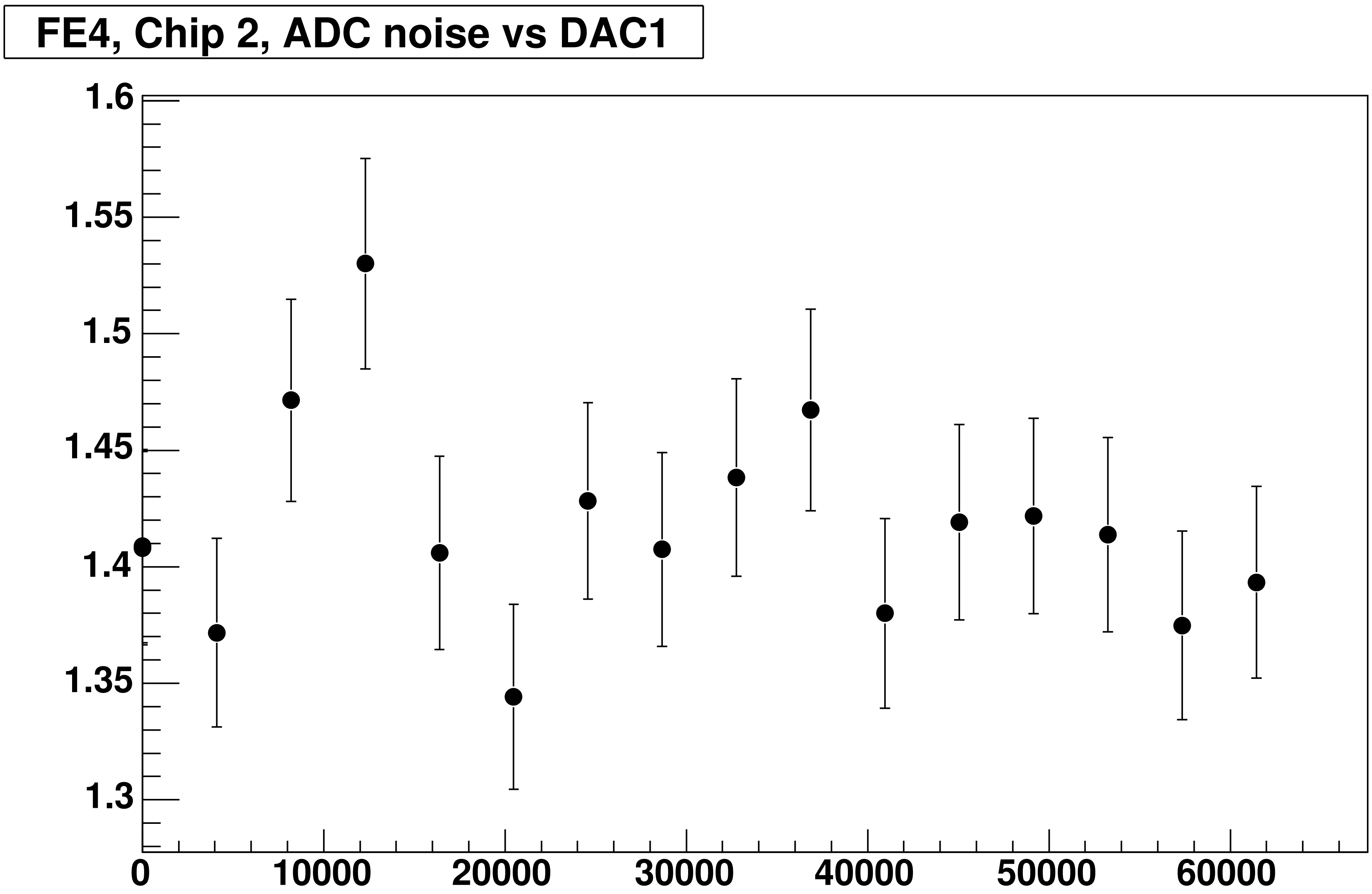
FE4, Chip 2, ADC mean vs DAC0
χ² / ndf 1355 / 11
p0 -147.3 ± 0.04213
p1 0.4513 ± 1.378e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

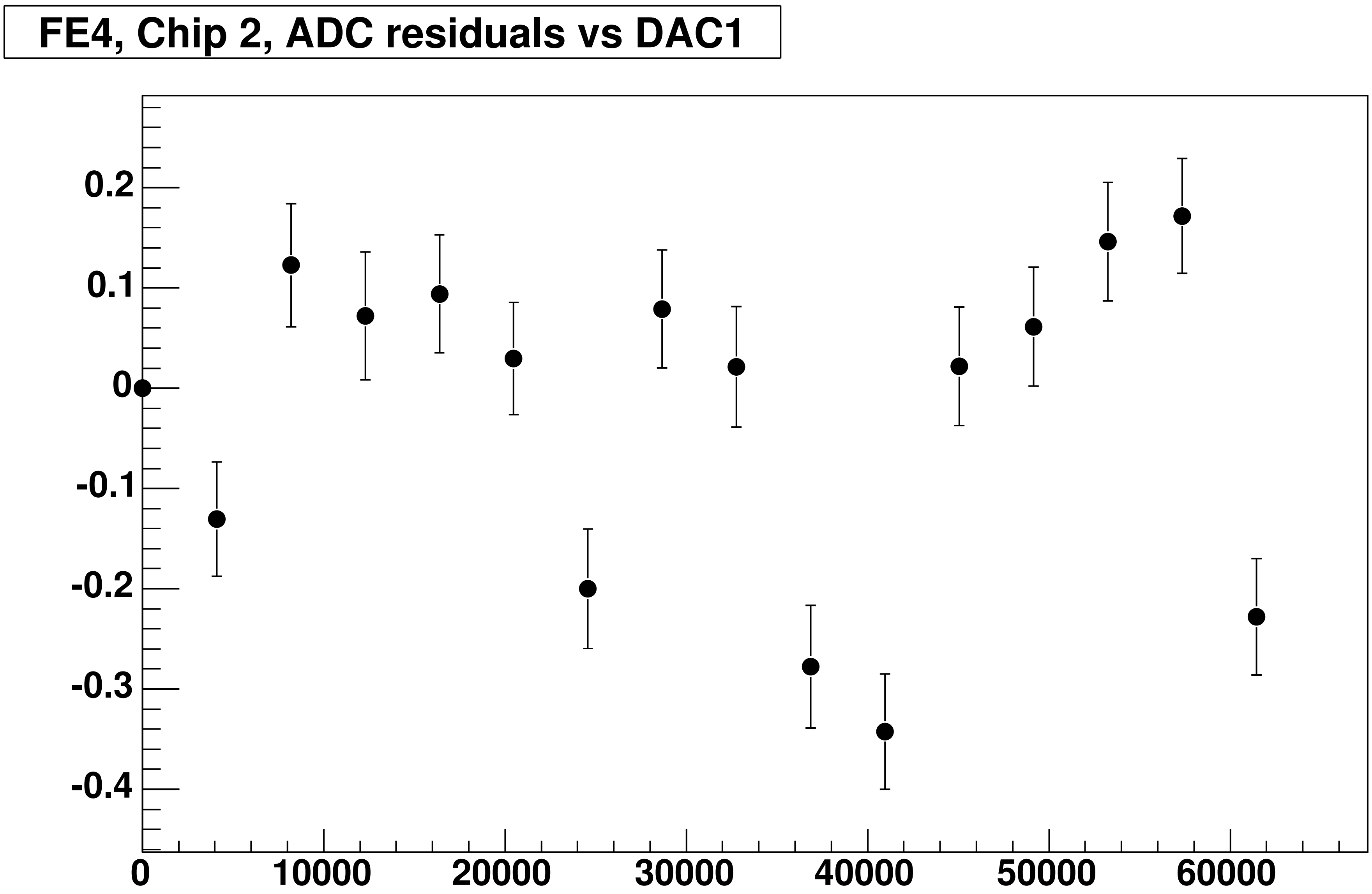

FE4, Chip 2, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



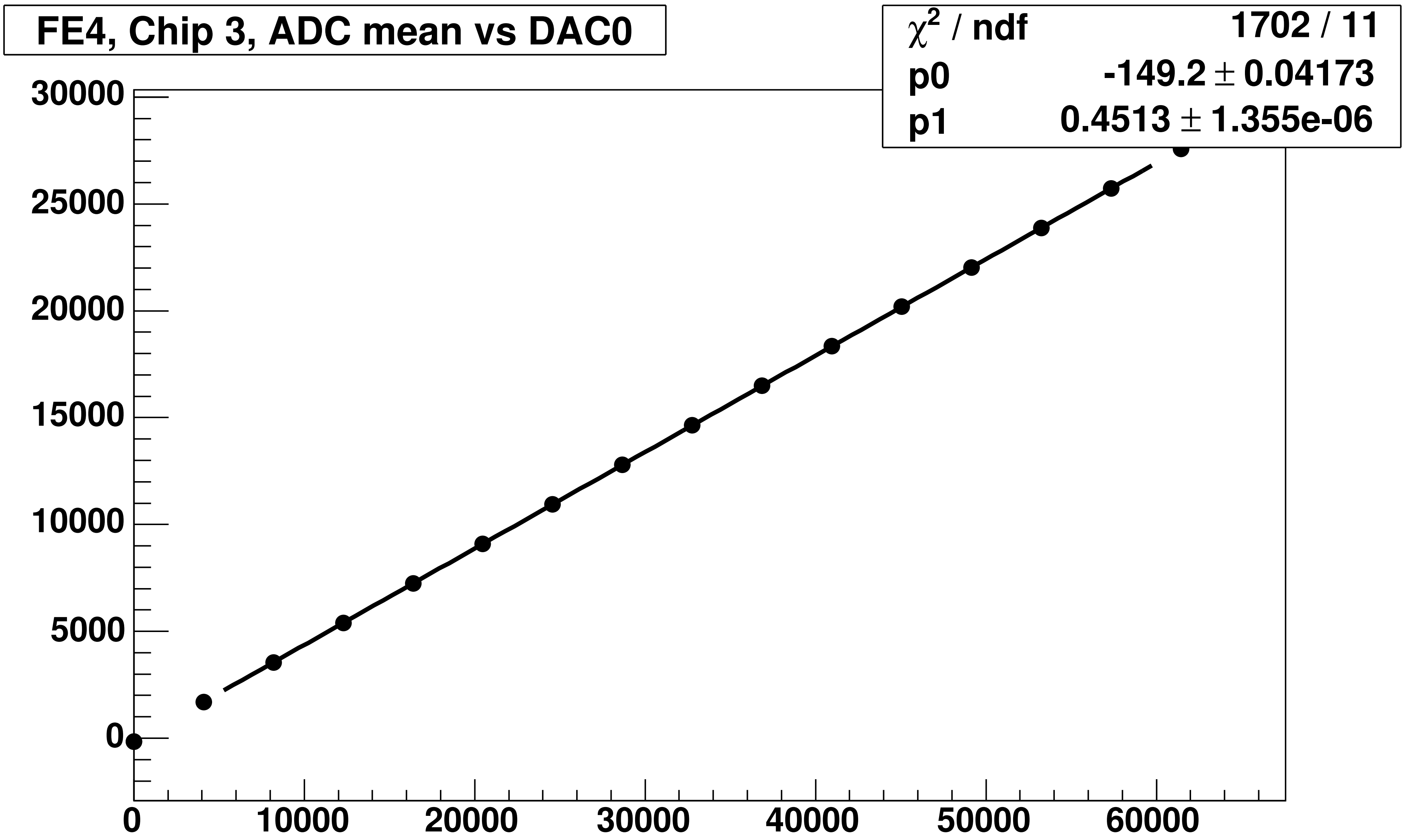
FE4, Chip 2, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE4, Chip 2, ADC mean vs DAC1
χ^2 / ndf 93.8 / 11
p0 -150.1 ± 0.03927
p1 -3.719e-06 ± 1.076e-06
-149.9
-150
-150.1
-150.2
-150.3
-150.4
-150.5
-150.6
-150.7
0
10000
20000
30000
40000
50000
60000

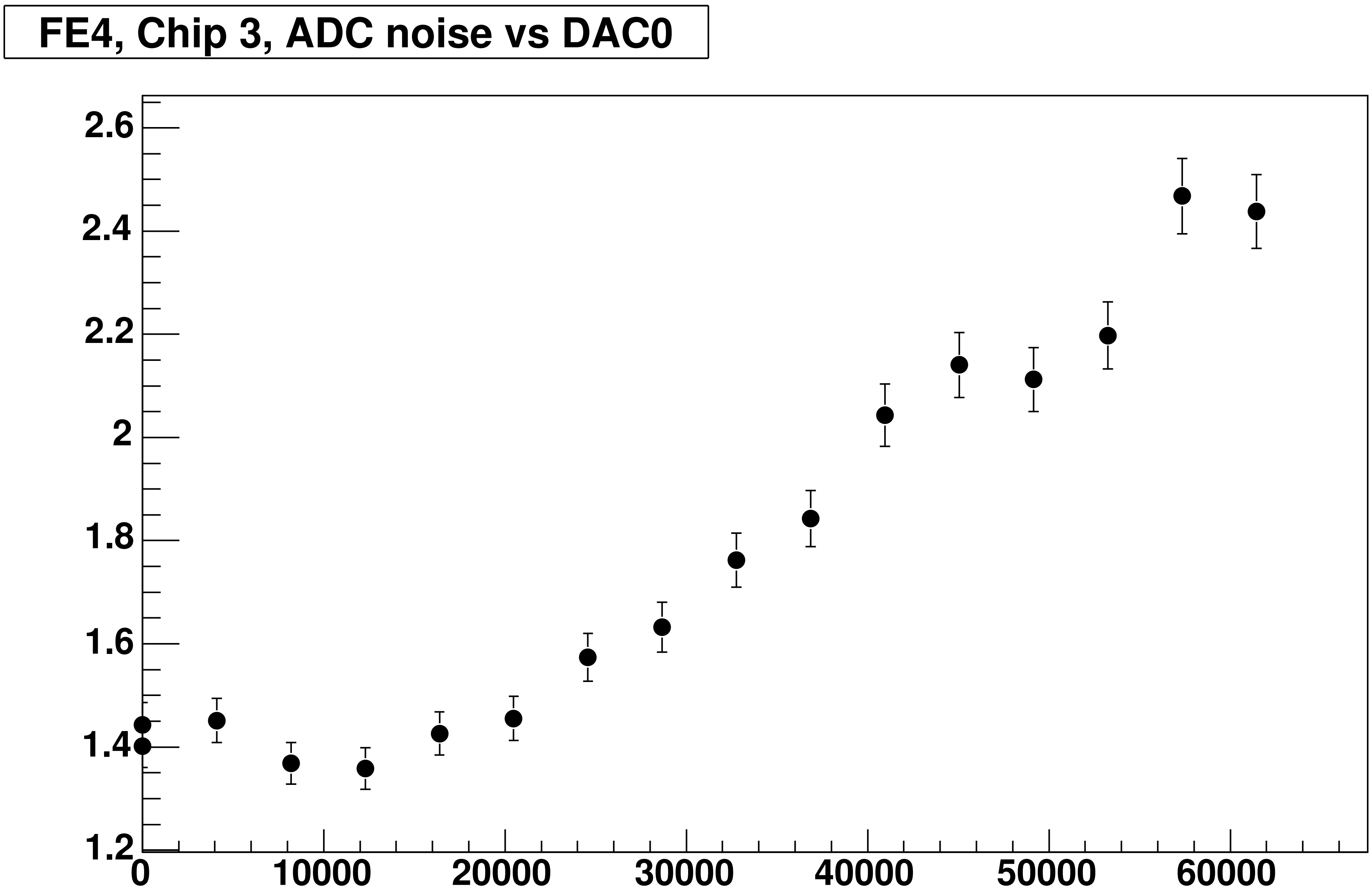

FE4, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

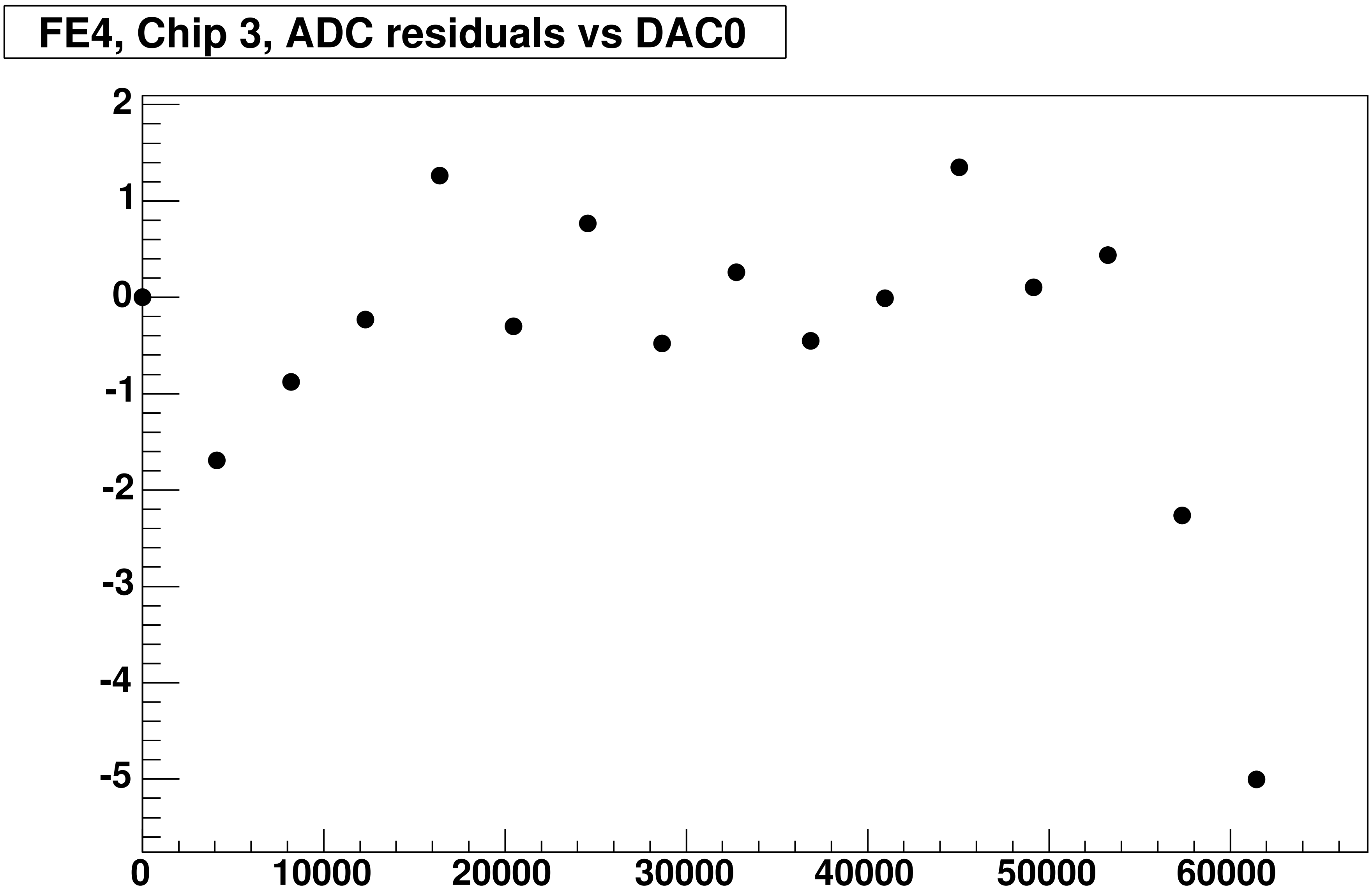


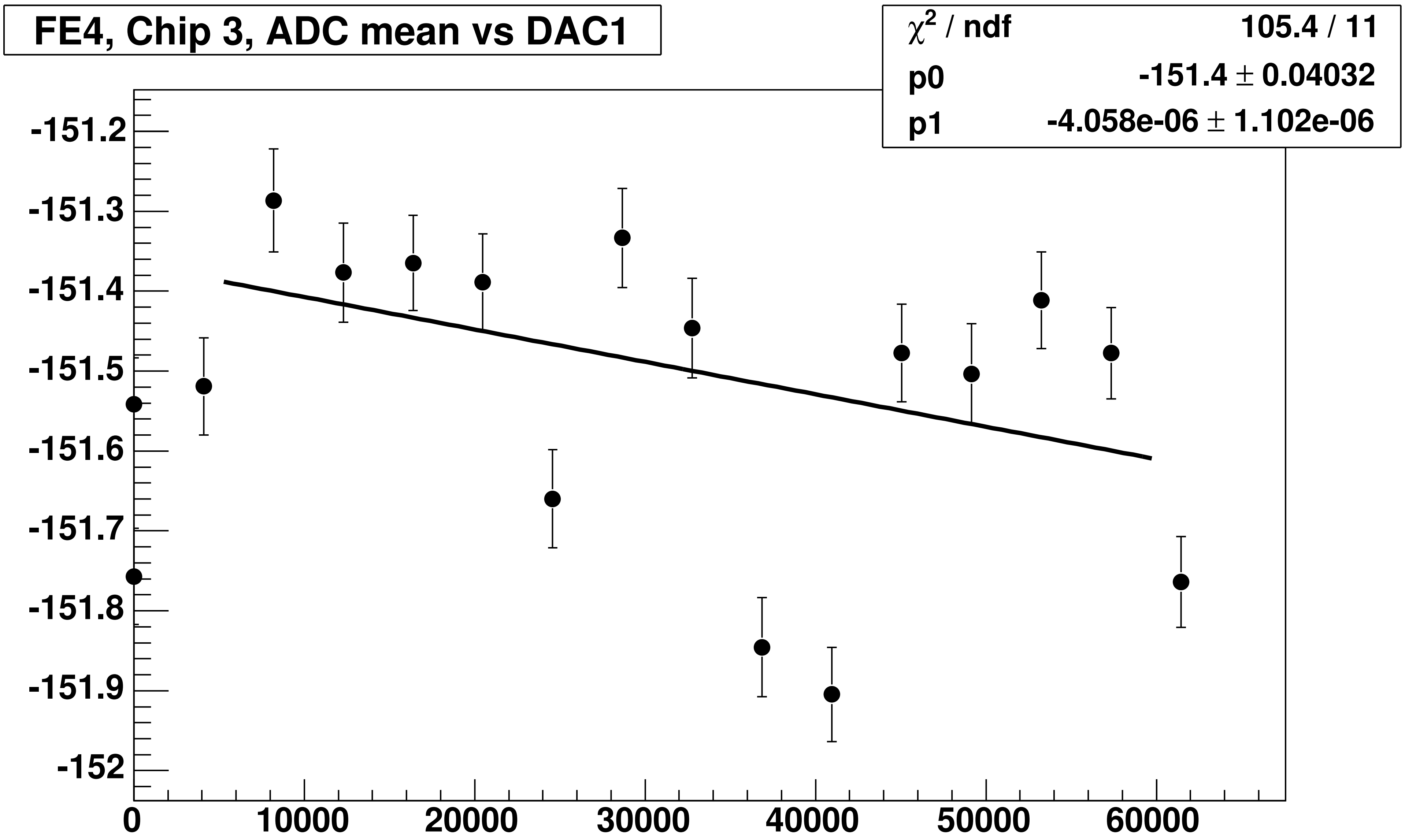
FE4, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



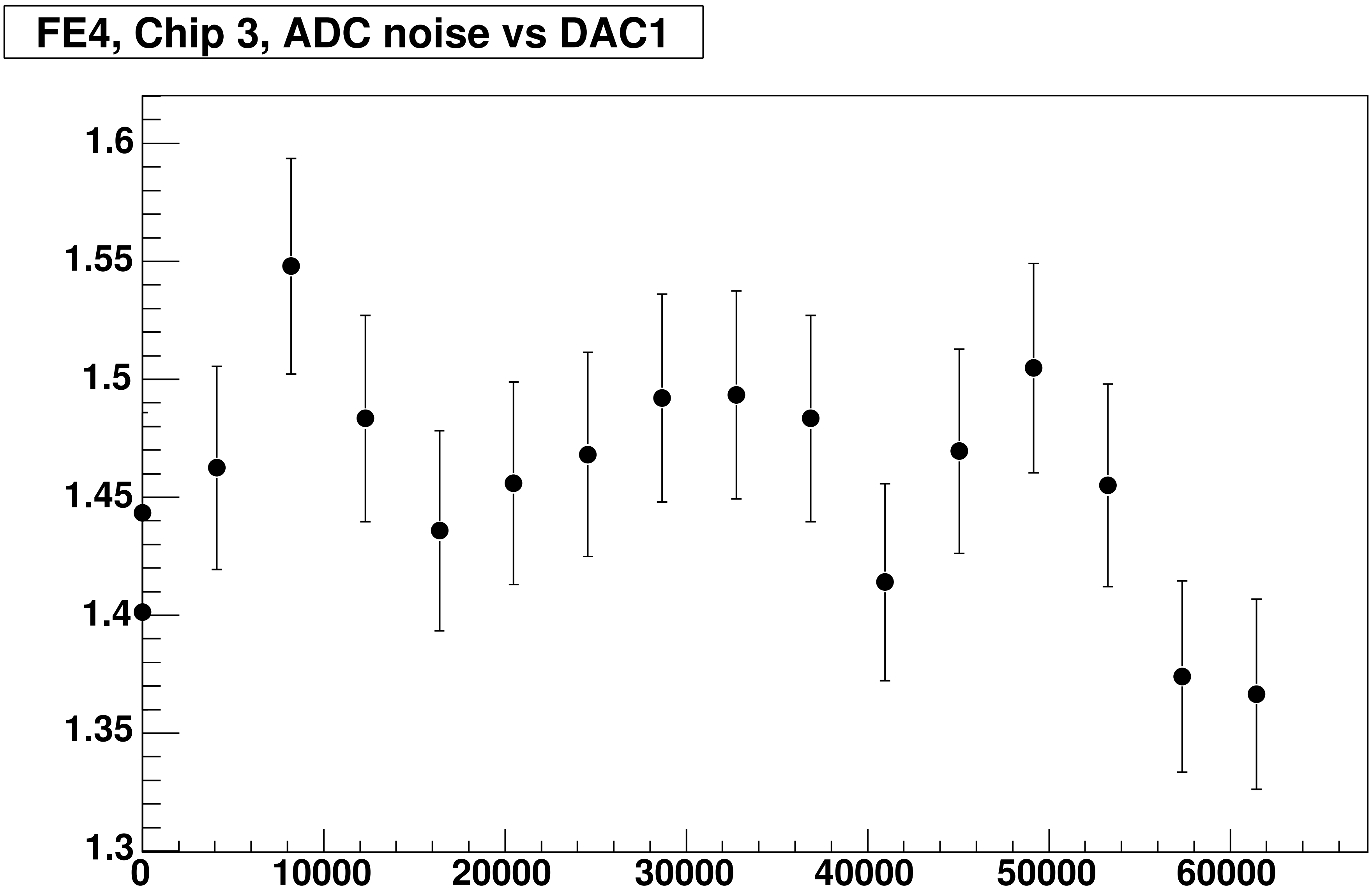
FE4, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1702 / 11
p0 -149.2 ± 0.04173
p1 0.4513 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

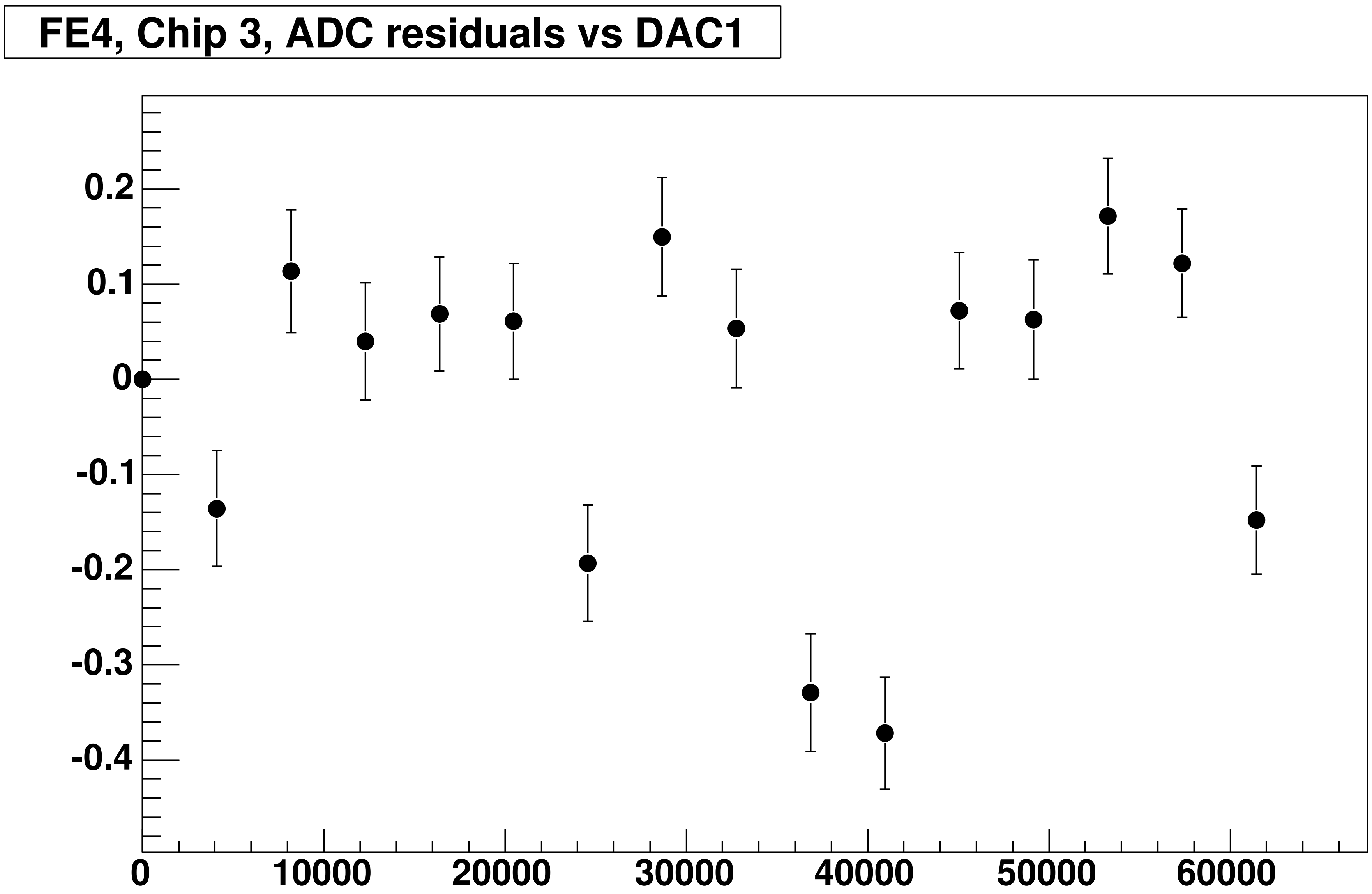

FE4, Chip 3, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

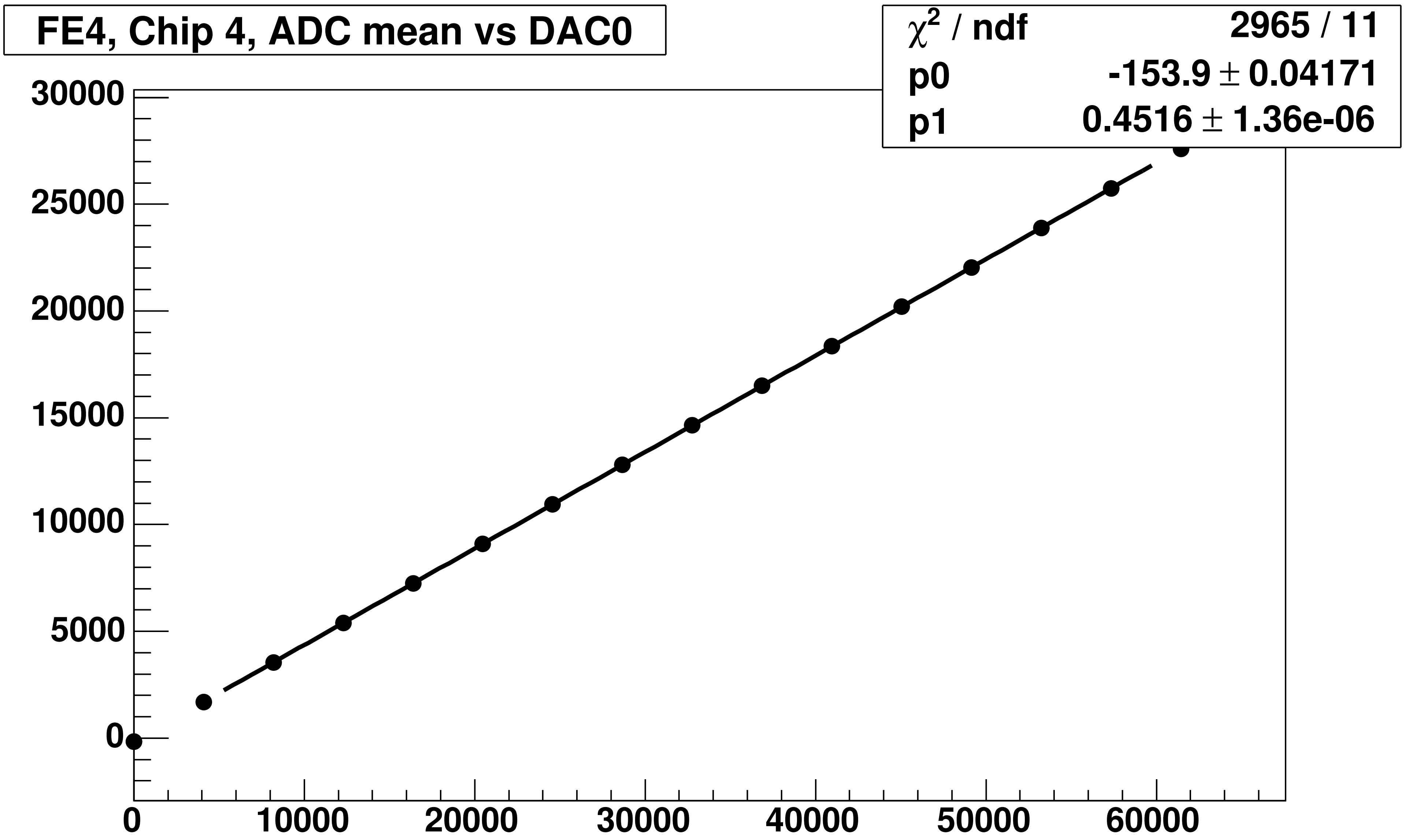


FE4, Chip 3, ADC mean vs DAC1
χ^2 / ndf 105.4 / 11
p0 -151.4 ± 0.04032
p1 -4.058e-06 ± 1.102e-06
-151.2
-151.3
-151.4
-151.5
-151.6
-151.7
-151.8
-151.9
-152
0
10000
20000
30000
40000
50000
60000

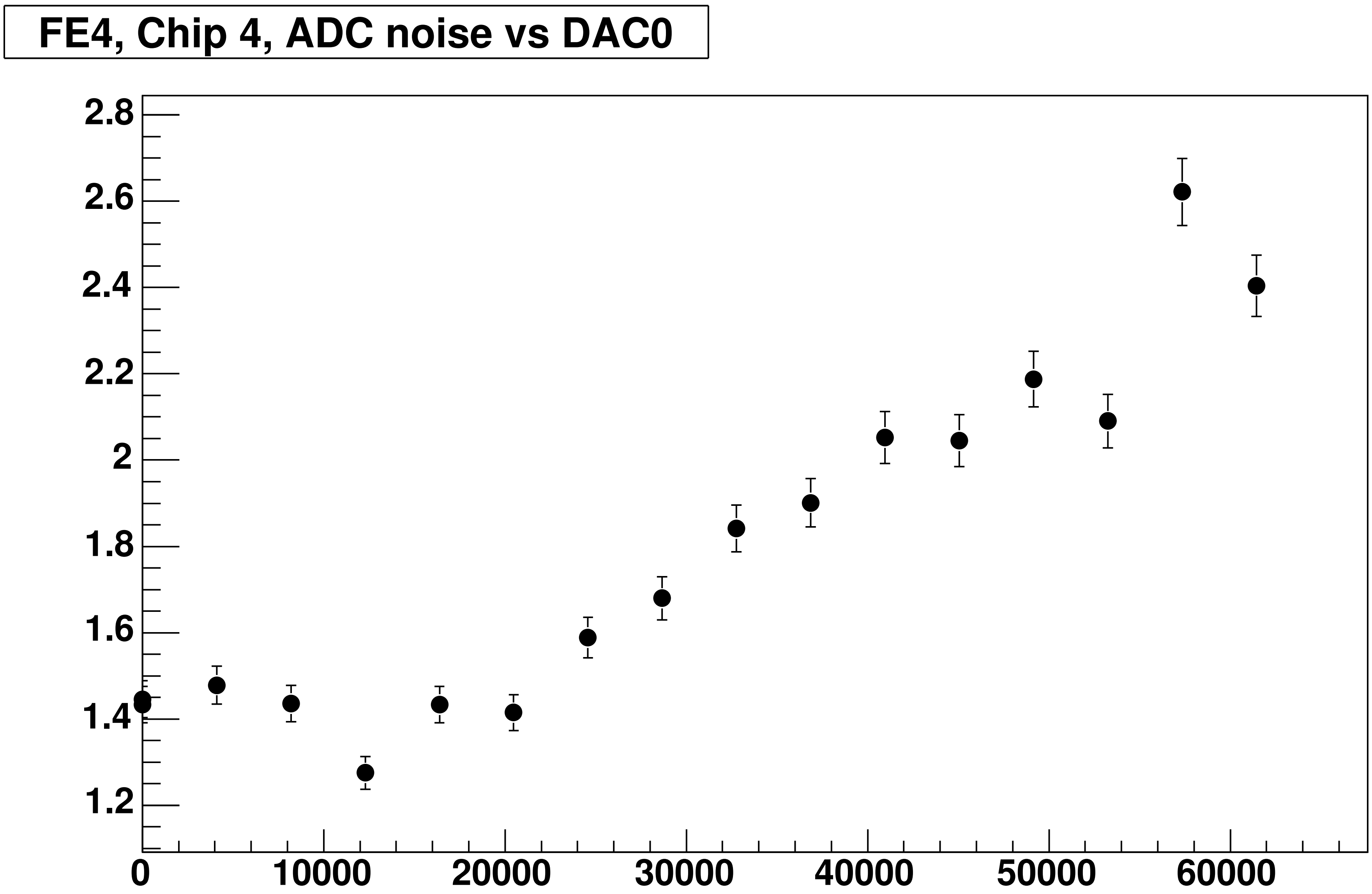


FE4, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

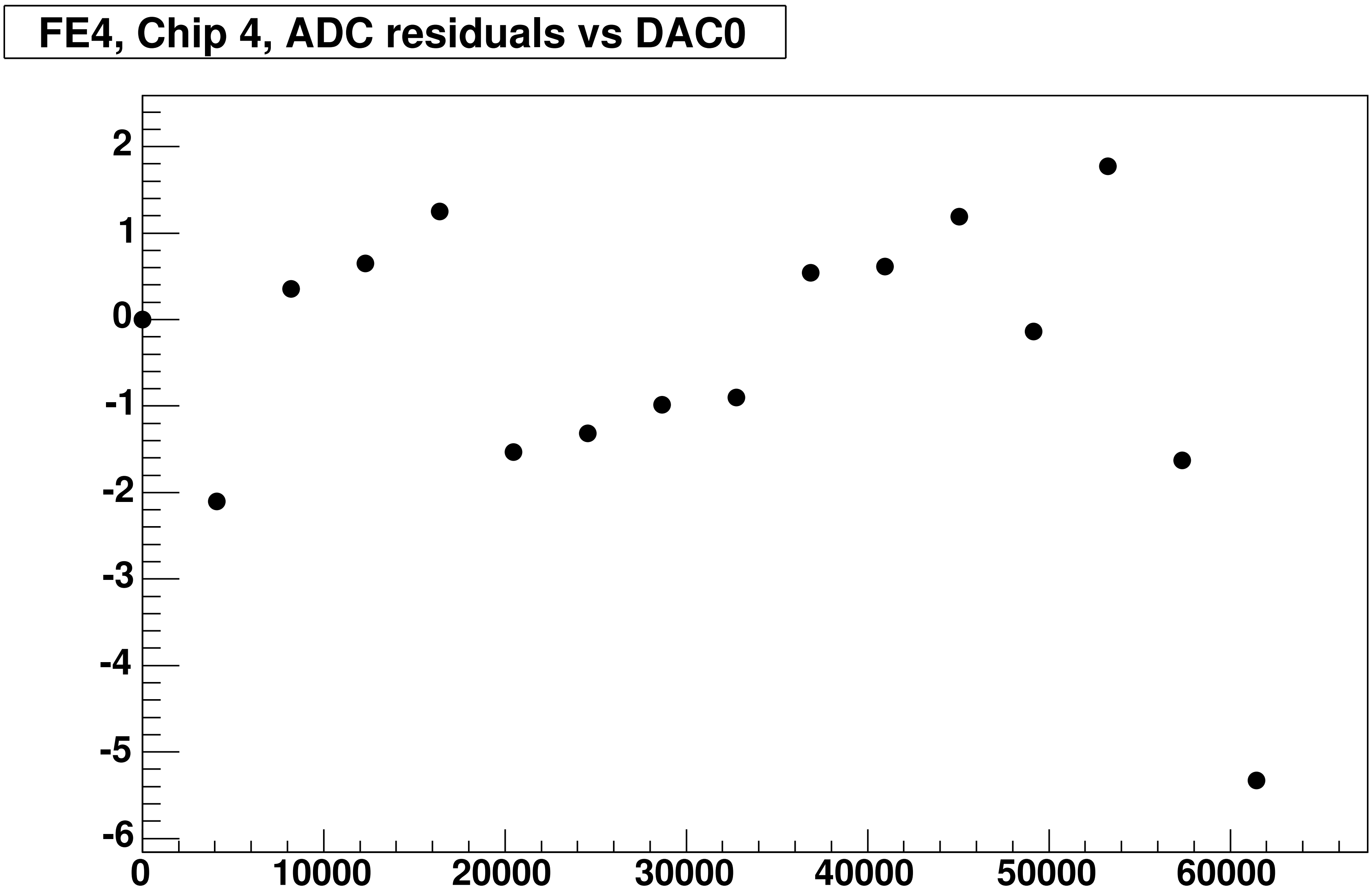

FE4, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



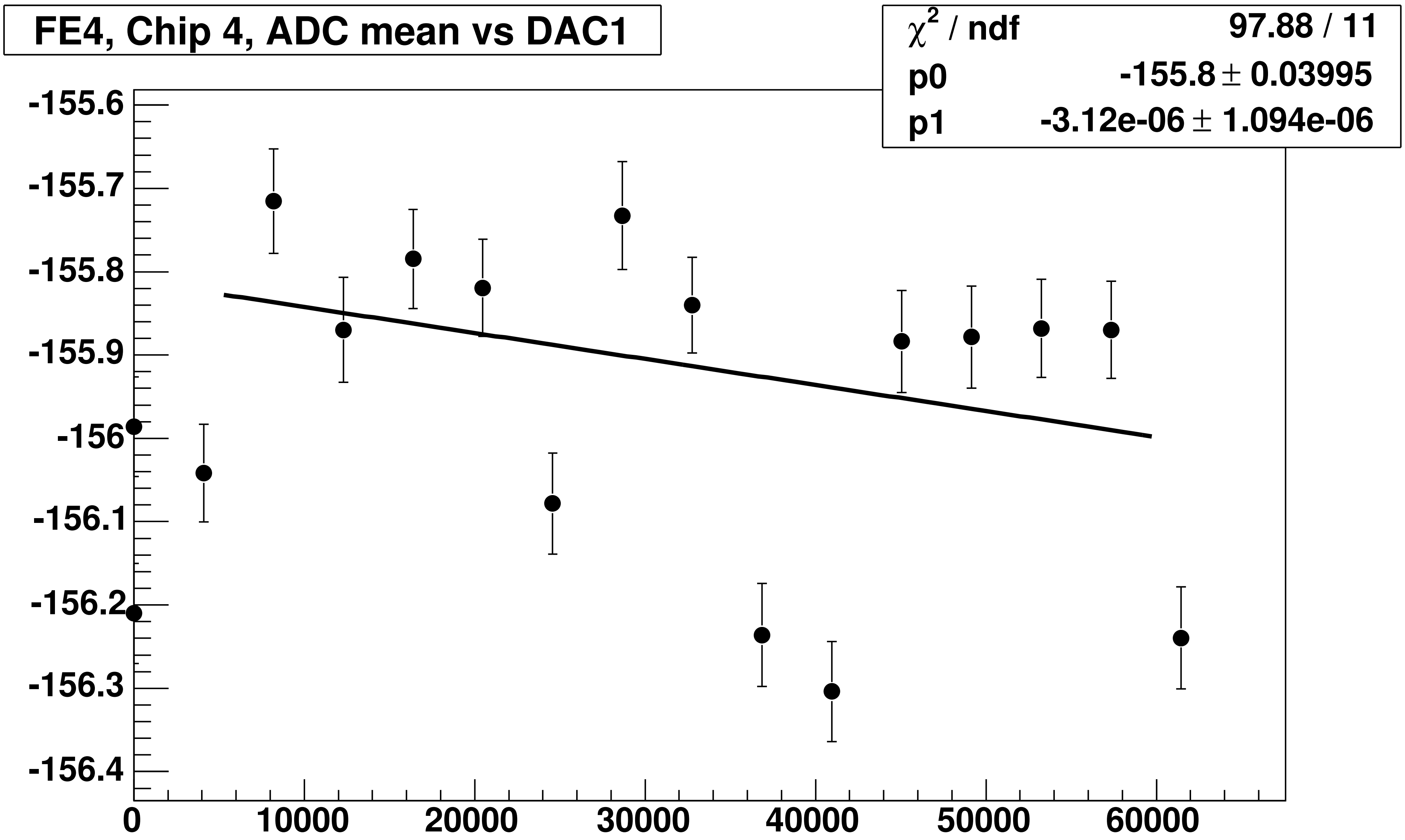
FE4, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2965 / 11
p0 -153.9 ± 0.04171
p1 0.4516 ± 1.36e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

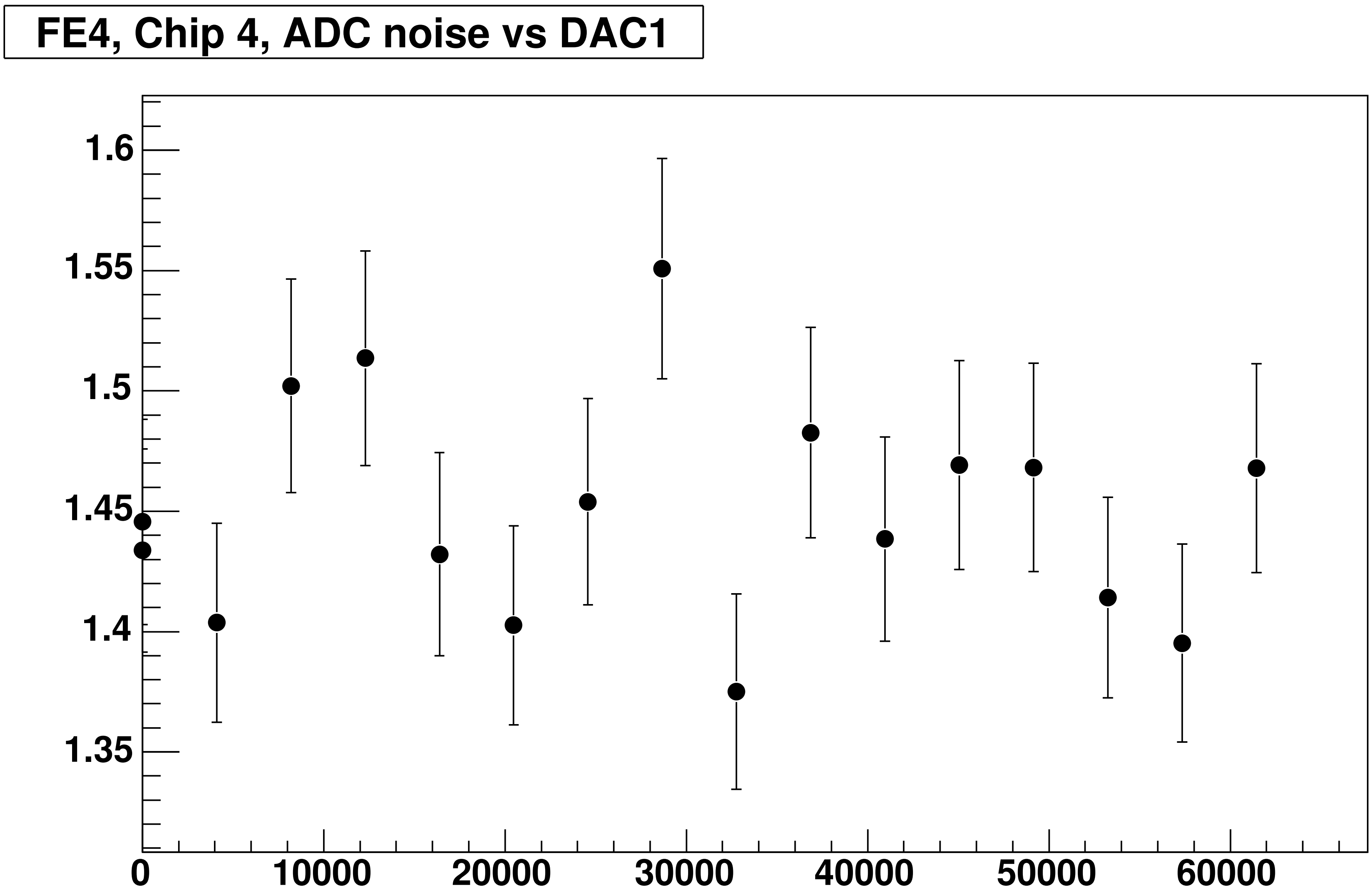


FE4, Chip 4, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

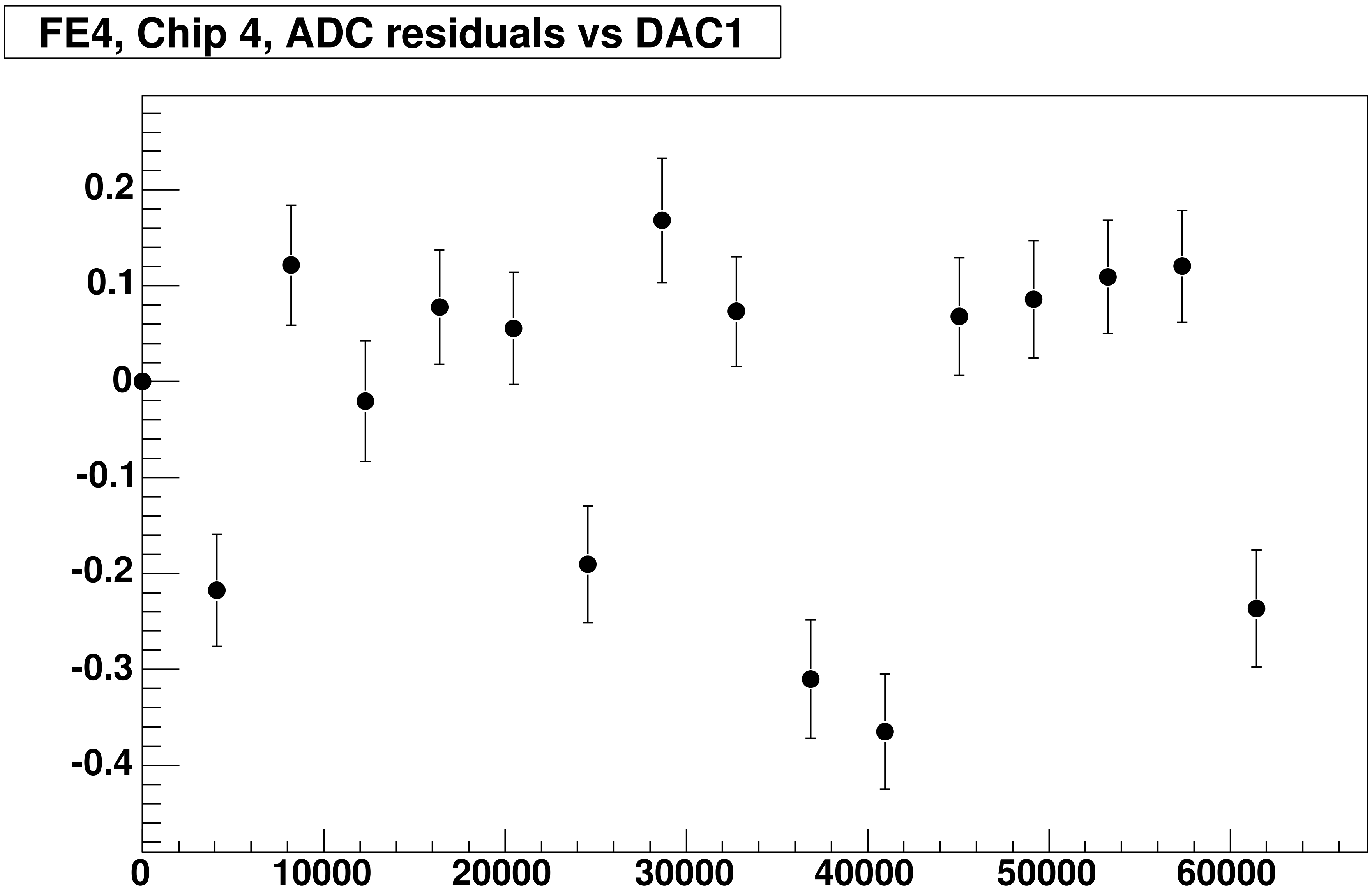


FE4, Chip 4, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

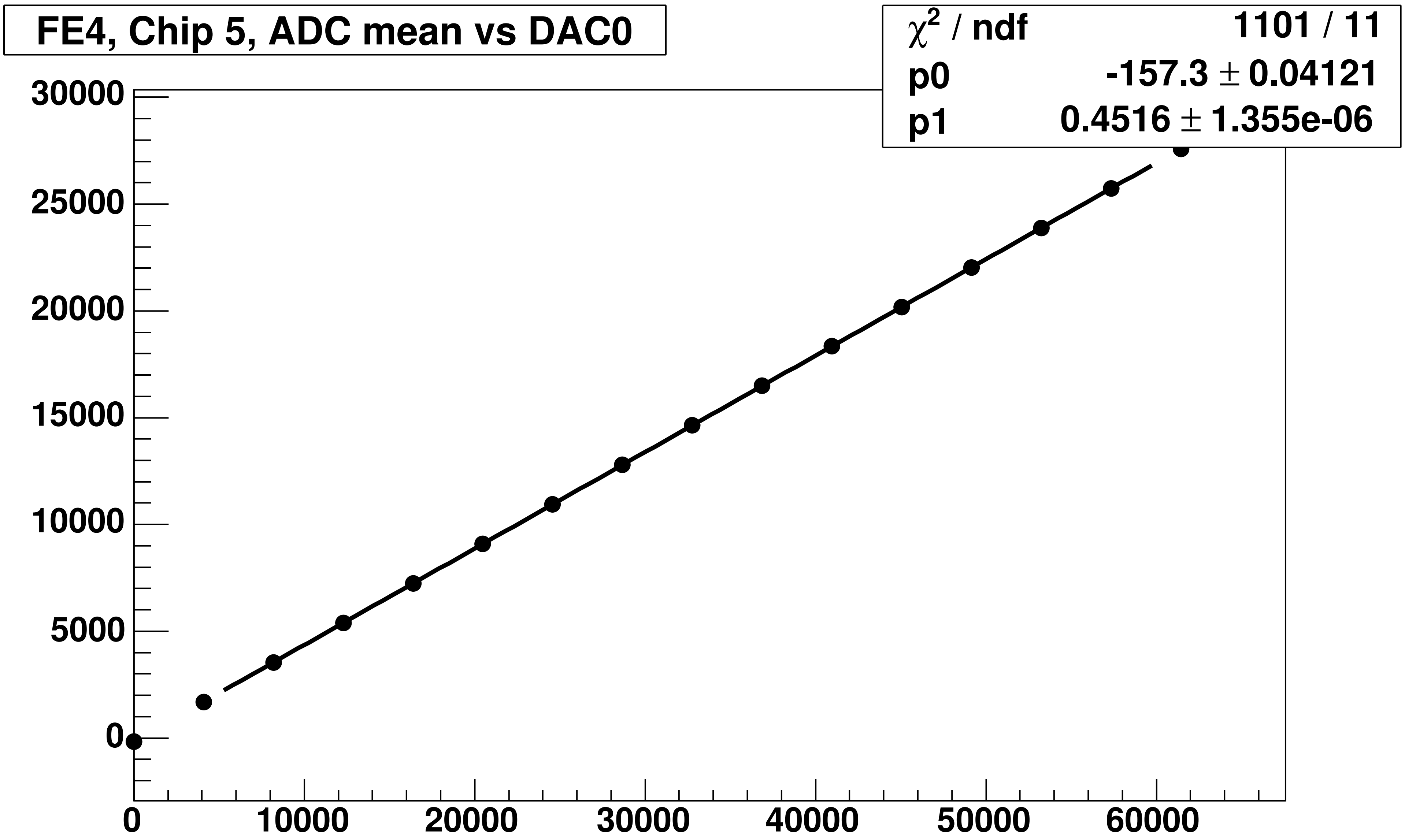

FE4, Chip 4, ADC mean vs DAC1
χ^2 / ndf 97.88 / 11
p0 -155.8 ± 0.03995
p1 -3.12e-06 ± 1.094e-06
-155.6
-155.7
-155.8
-155.9
-156
-156.1
-156.2
-156.3
-156.4
0
10000
20000
30000
40000
50000
60000

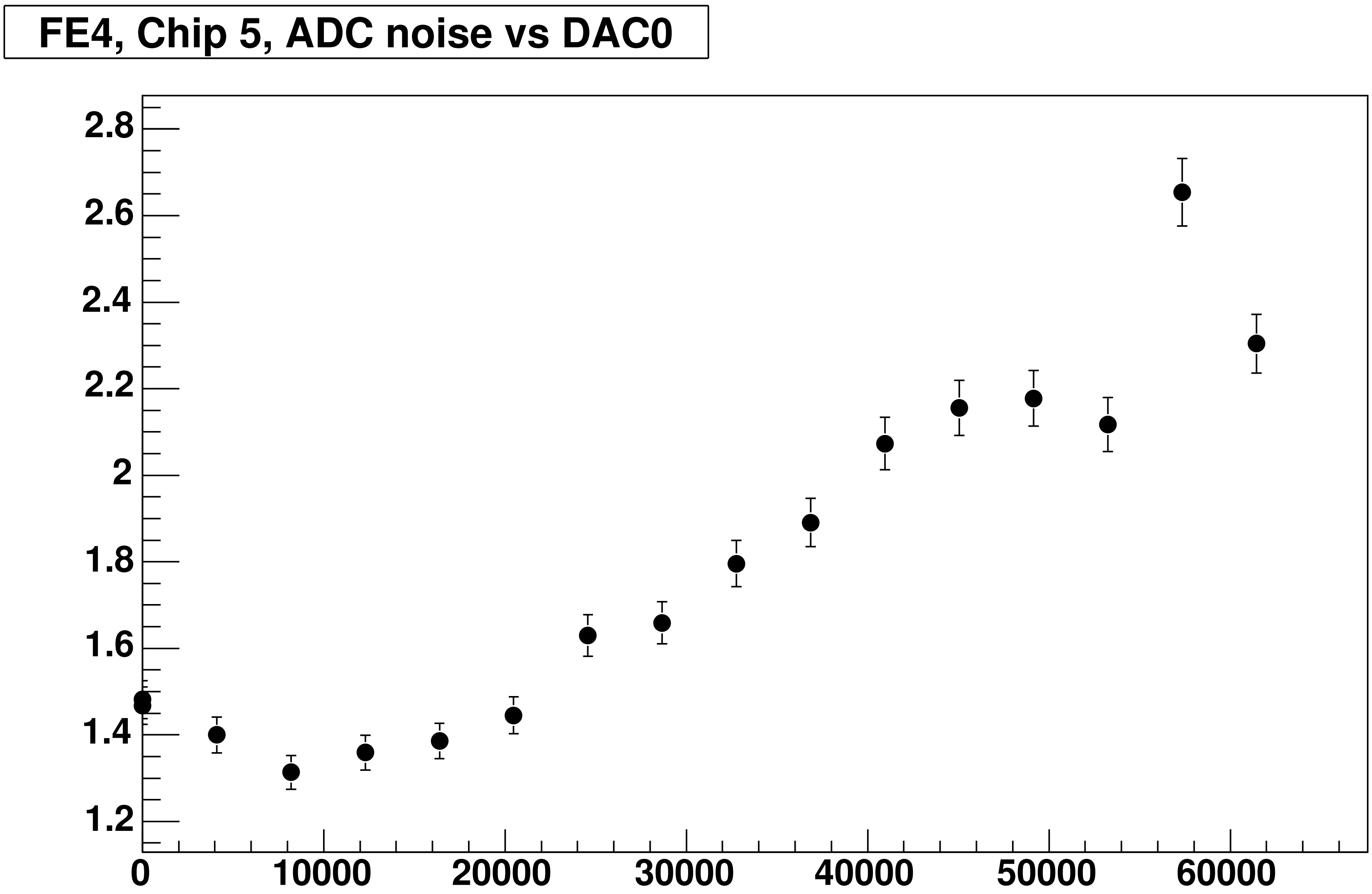


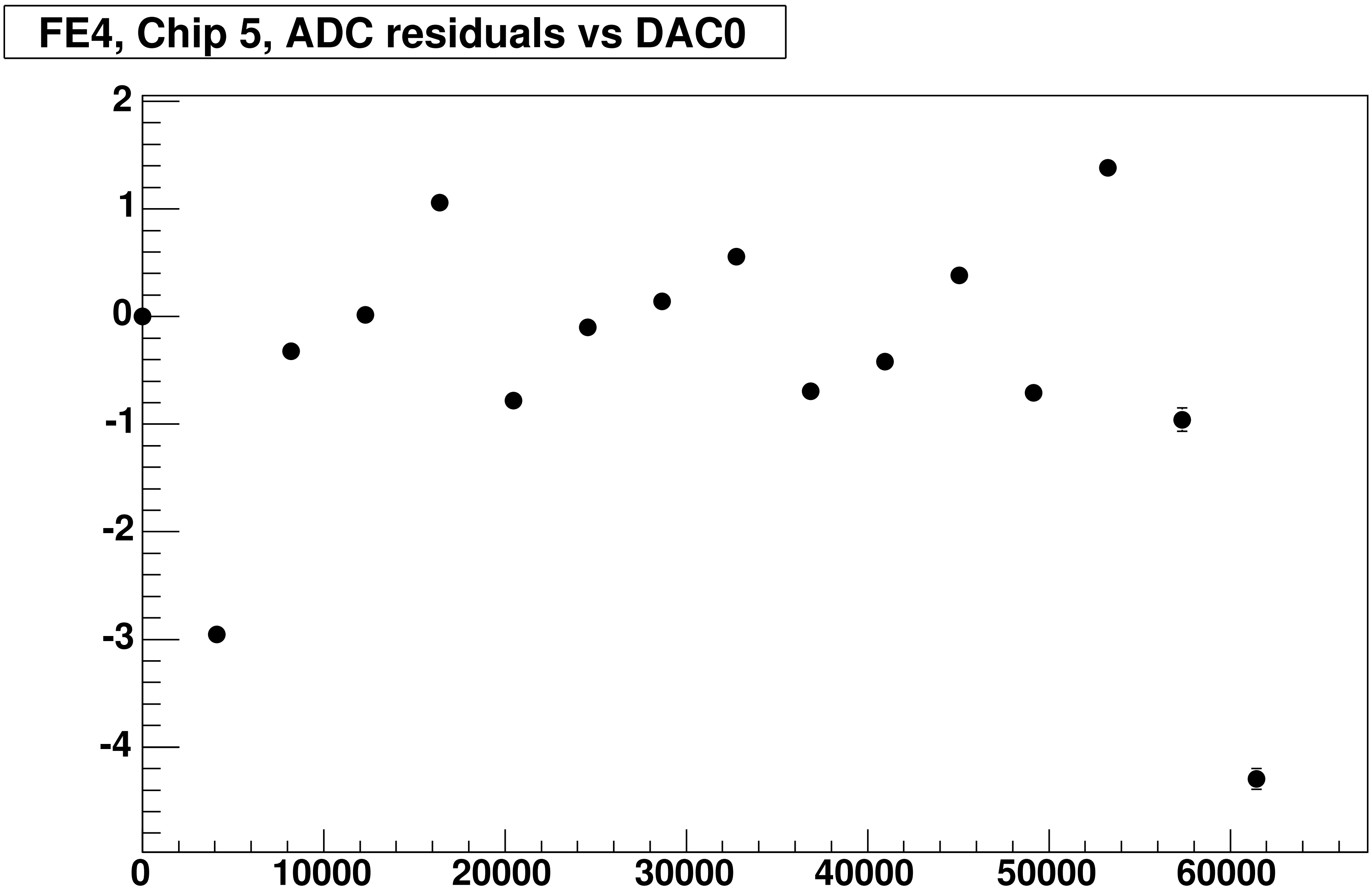
FE4, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

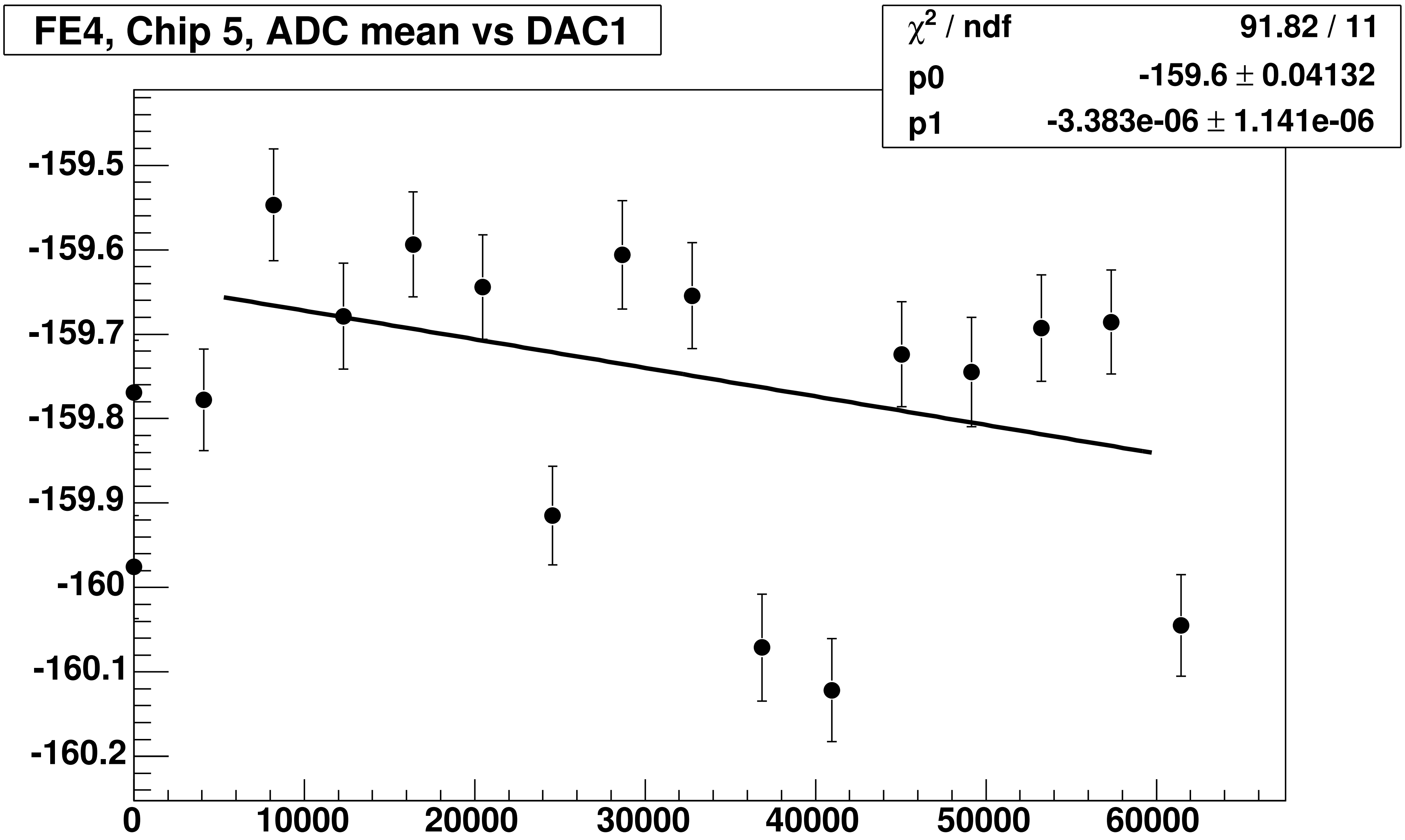


FE4, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

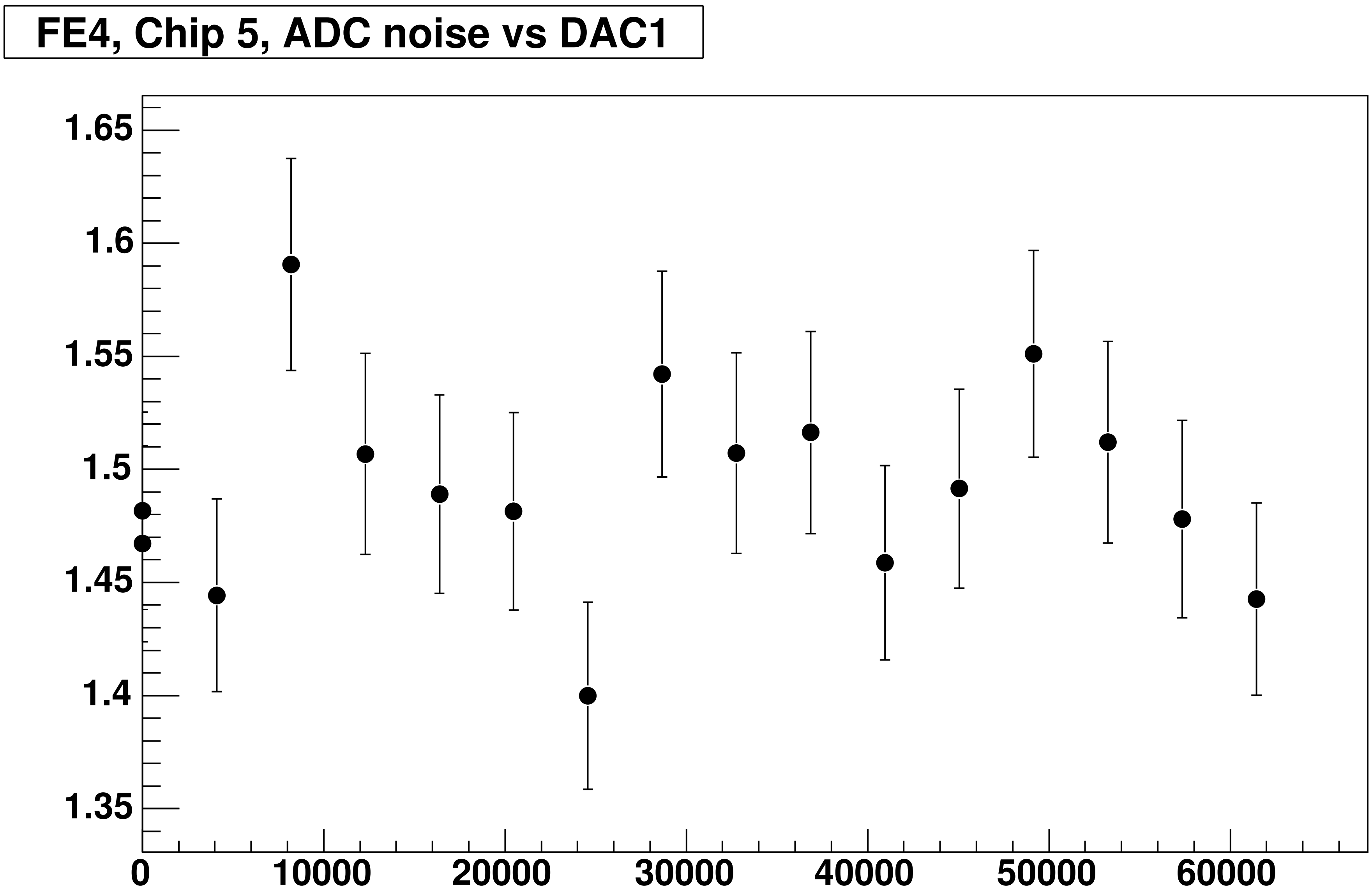

FE4, Chip 5, ADC mean vs DAC0
χ2 / ndf 1101 / 11
p0 -157.3 ± 0.04121
p1 0.4516 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

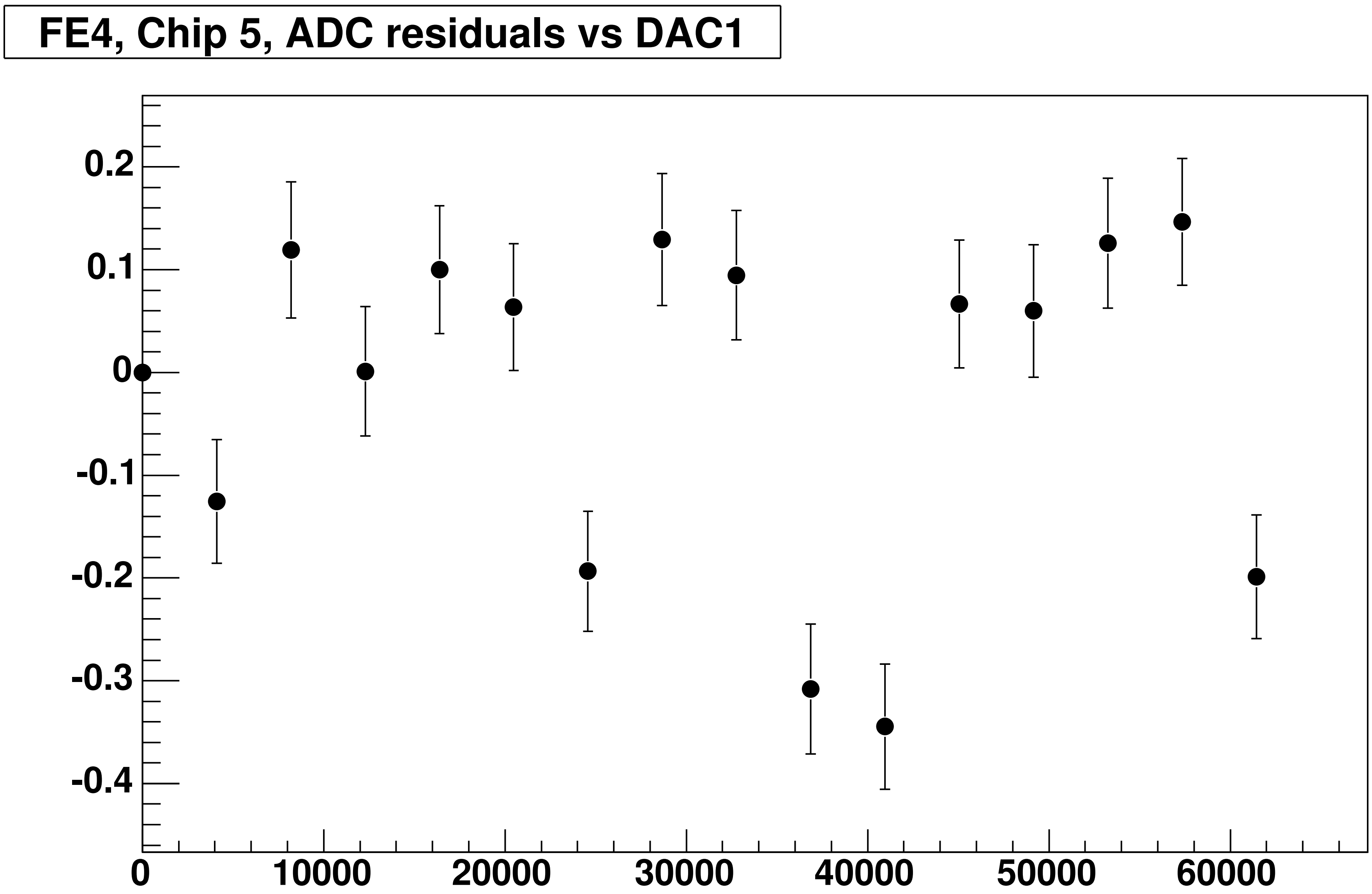

FE4, Chip 5, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE4, Chip 5, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

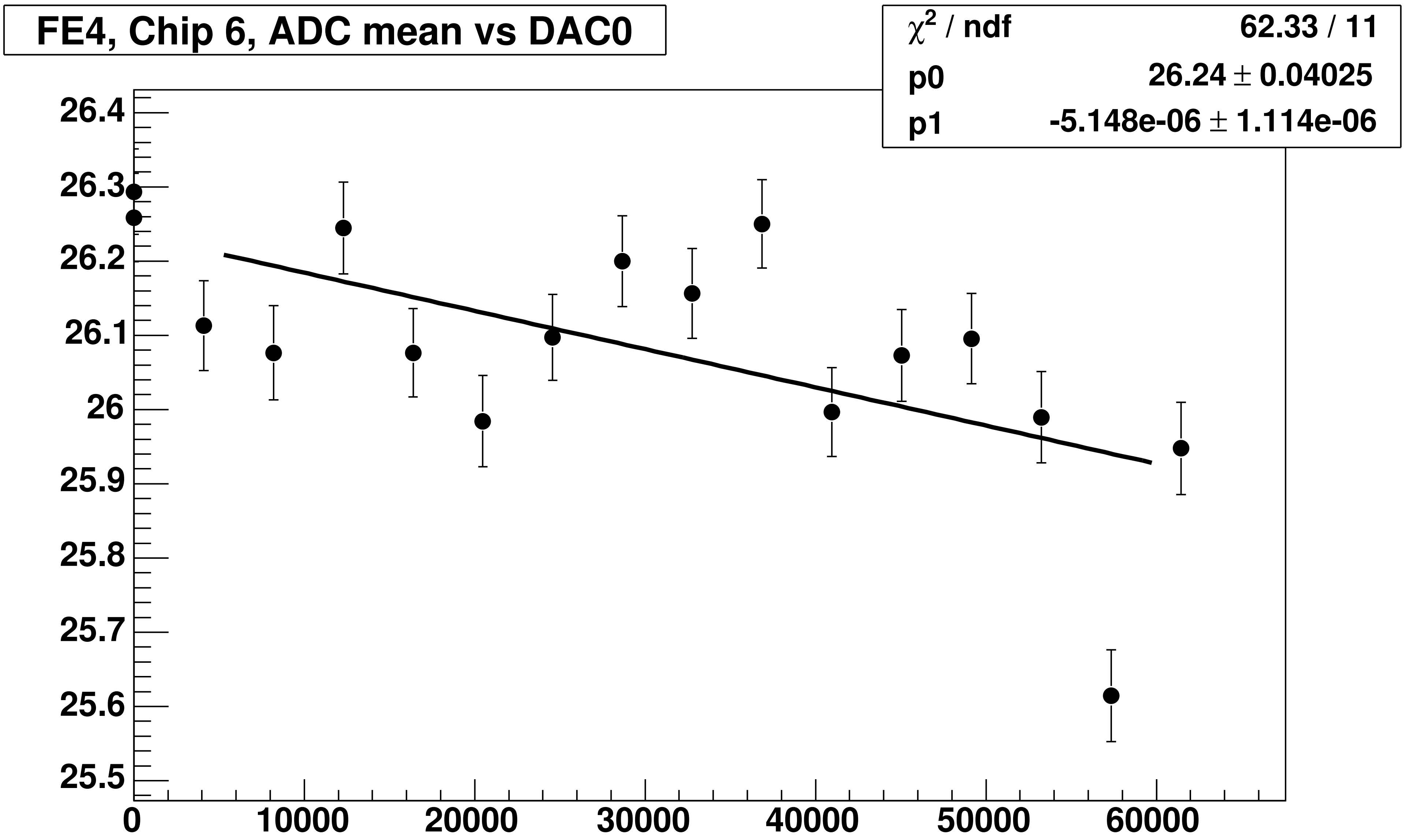


FE4, Chip 5, ADC mean vs DAC1
χ^2 / ndf 91.82 / 11
p0 -159.6 ± 0.04132
p1 -3.383e-06 ± 1.141e-06
-159.5
-159.6
-159.7
-159.8
-159.9
-160
-160.1
-160.2
0
10000
20000
30000
40000
50000
60000

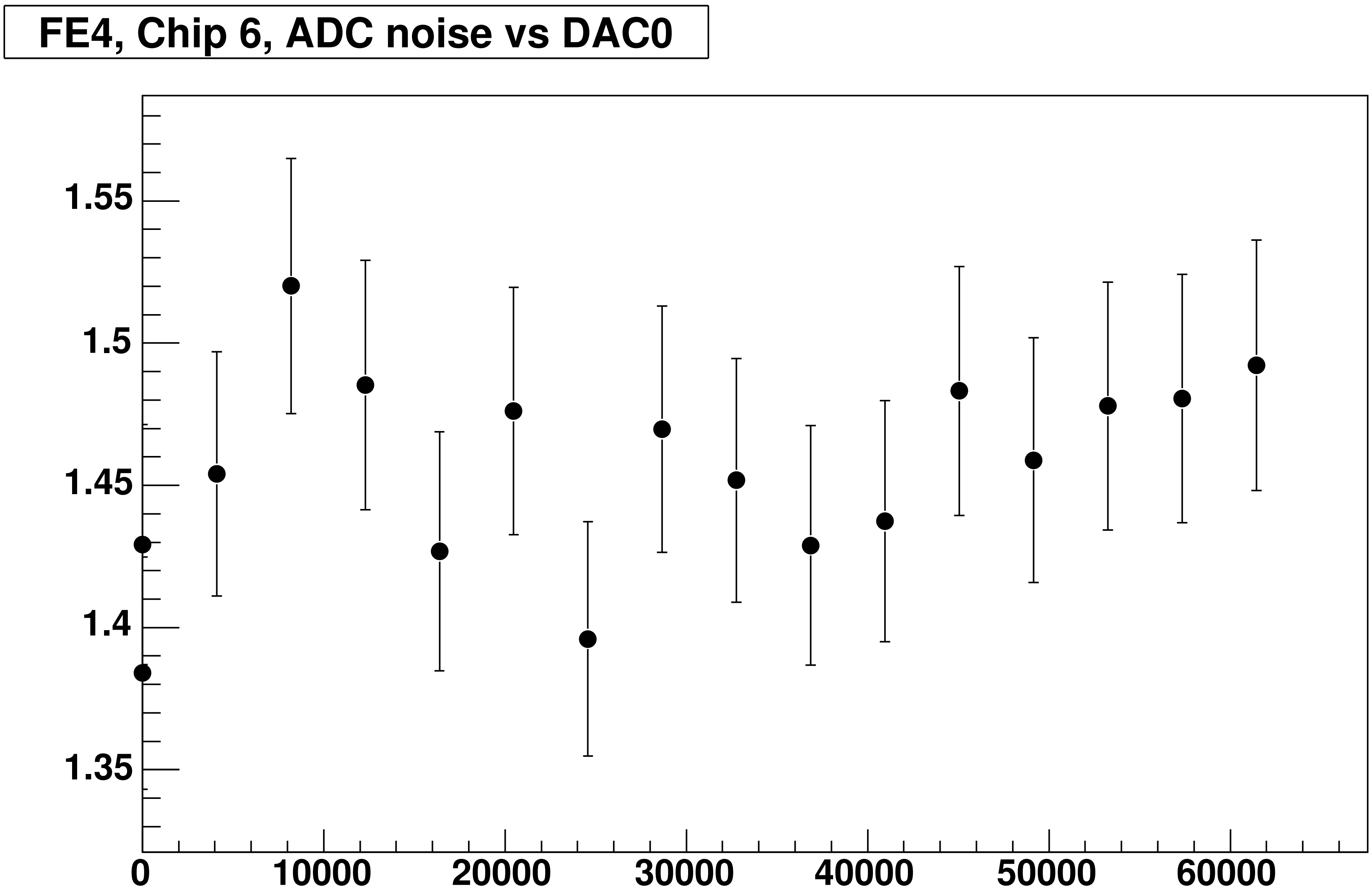

FE4, Chip 5, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

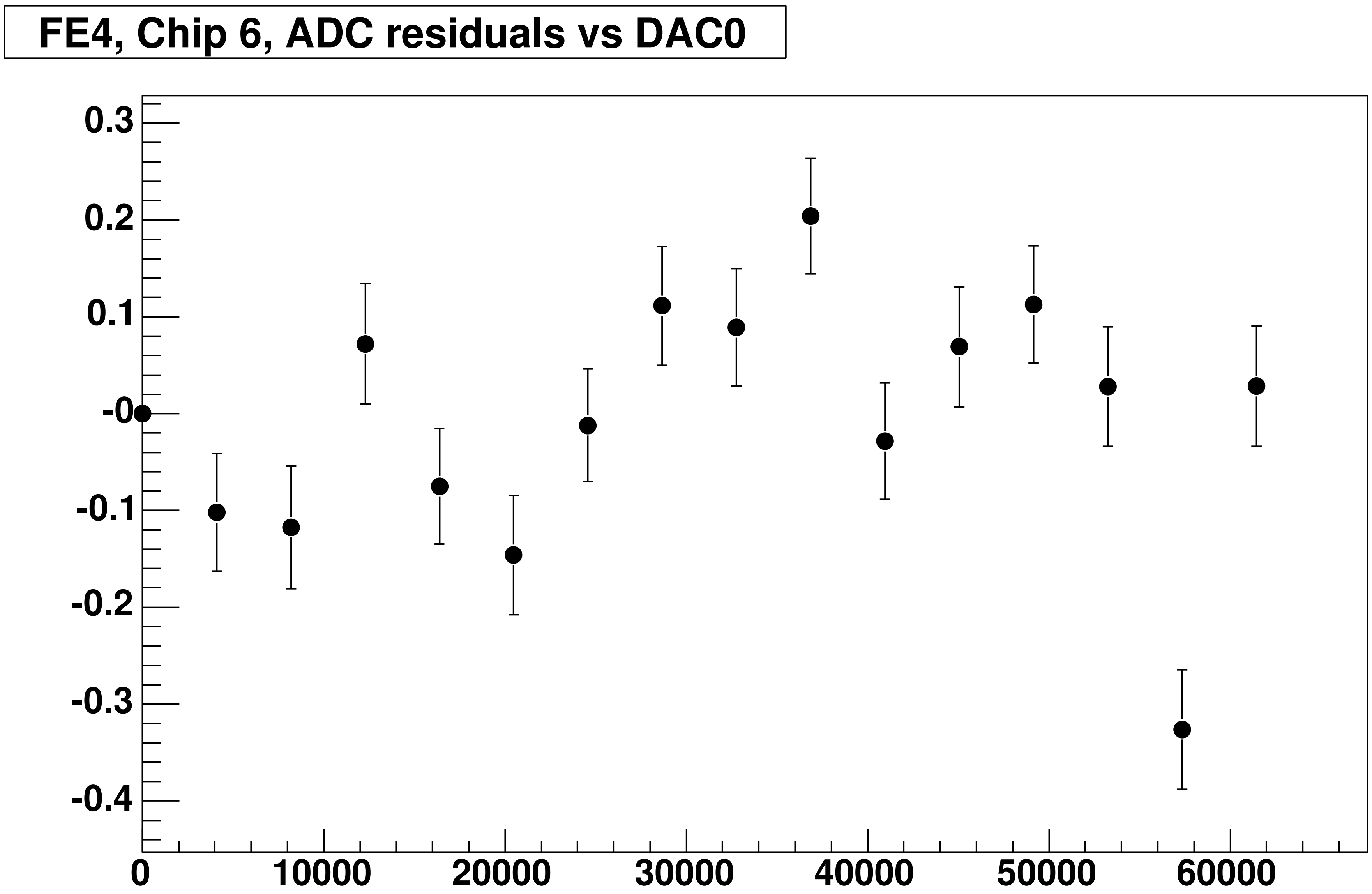


FE4, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

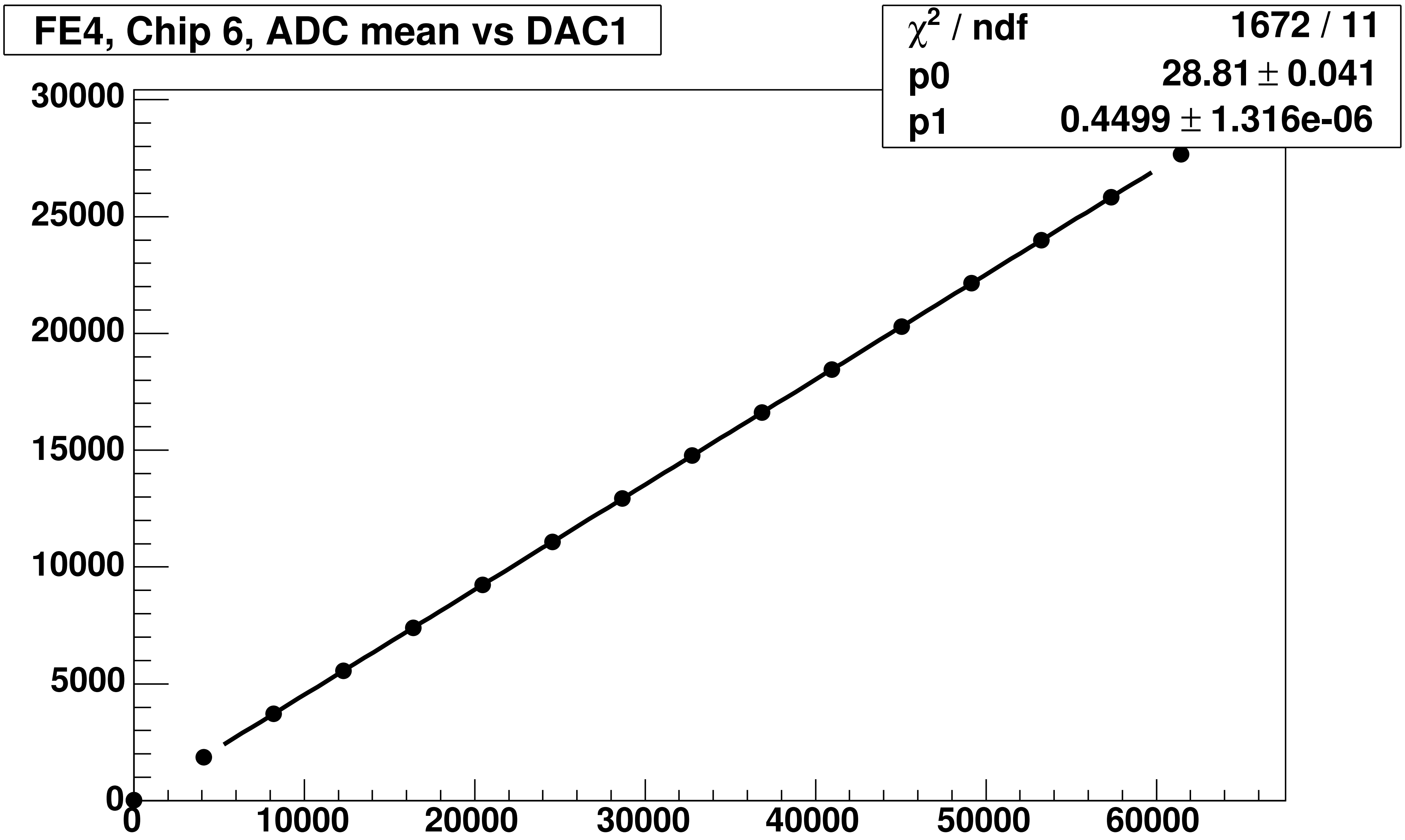


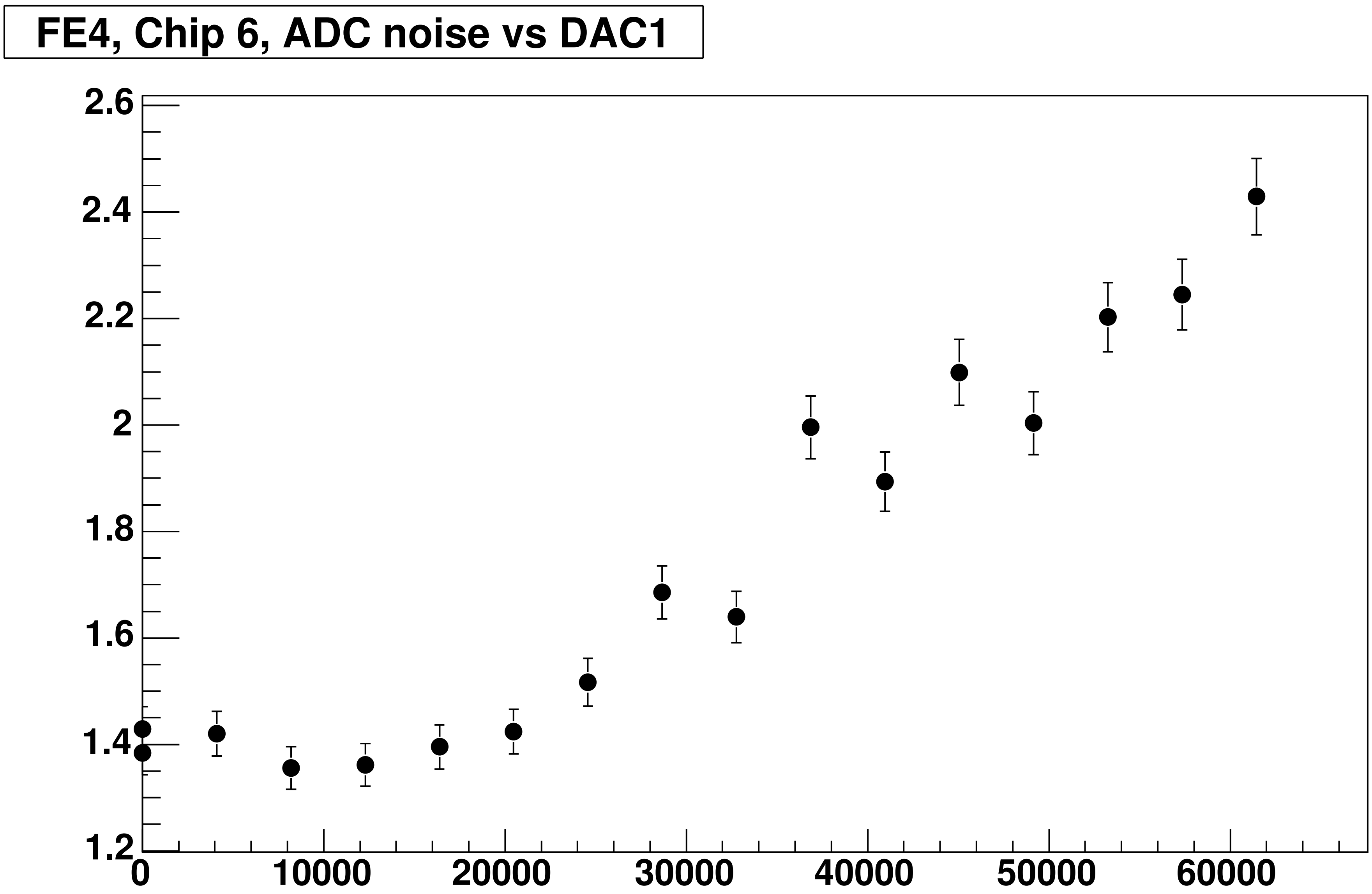
FE4, Chip 6, ADC mean vs DAC0
χ² / ndf 62.33 / 11
p0 26.24 ± 0.04025
p1 -5.148e-06 ± 1.114e-06
26.4
26.3
26.2
26.1
26
25.9
25.8
25.7
25.6
25.5
0
10000
20000
30000
40000
50000
60000

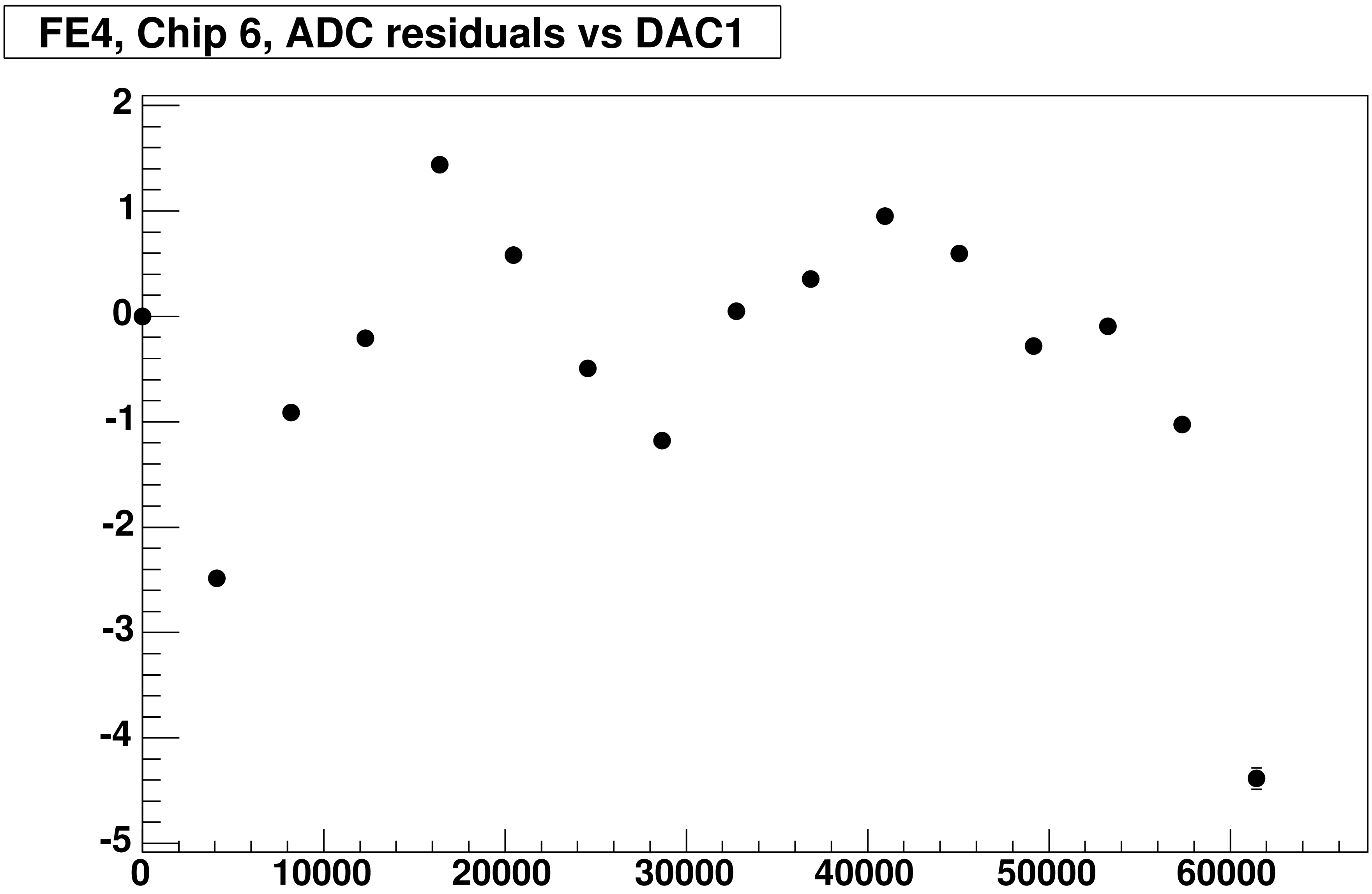

FE4, Chip 6, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



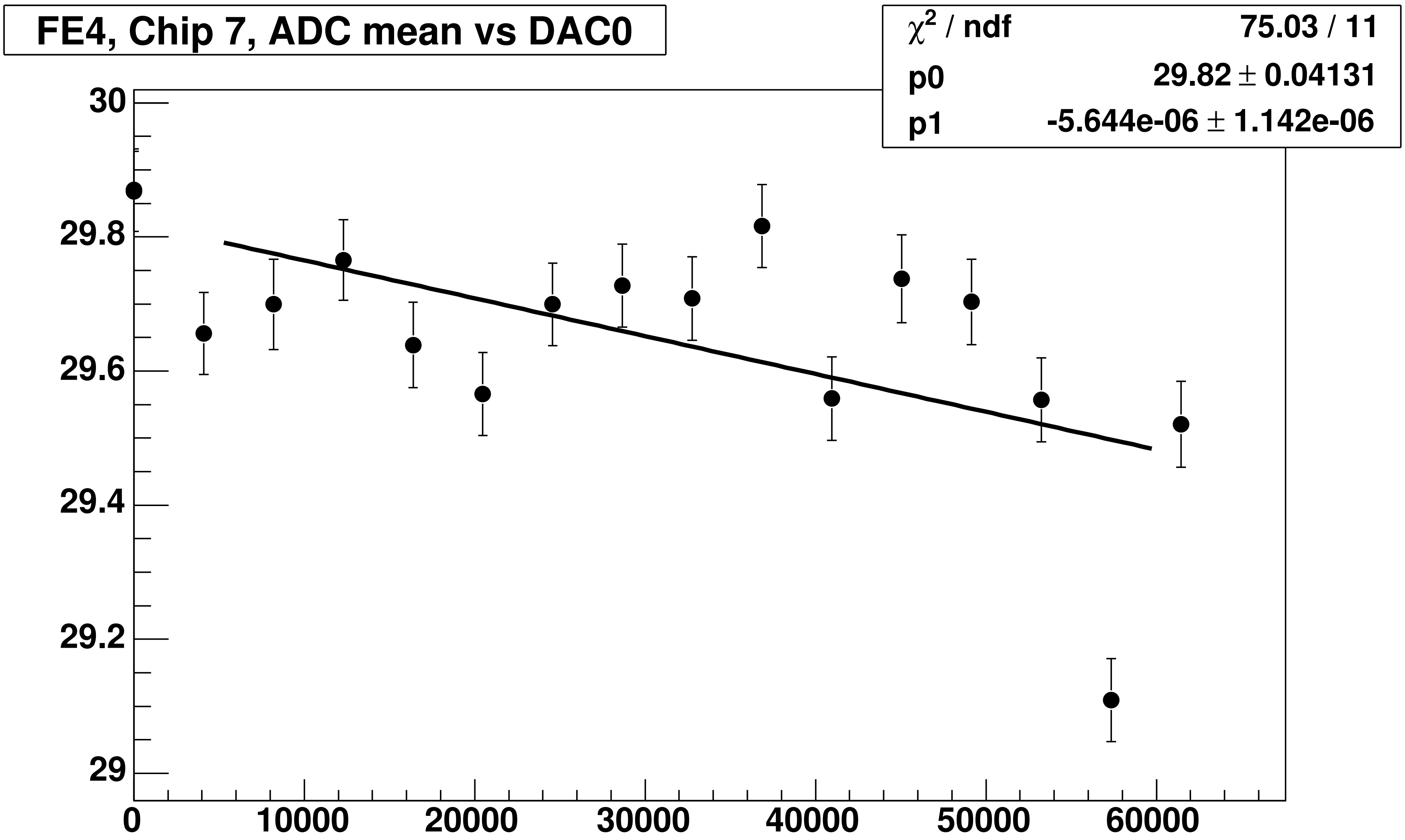
FE4, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

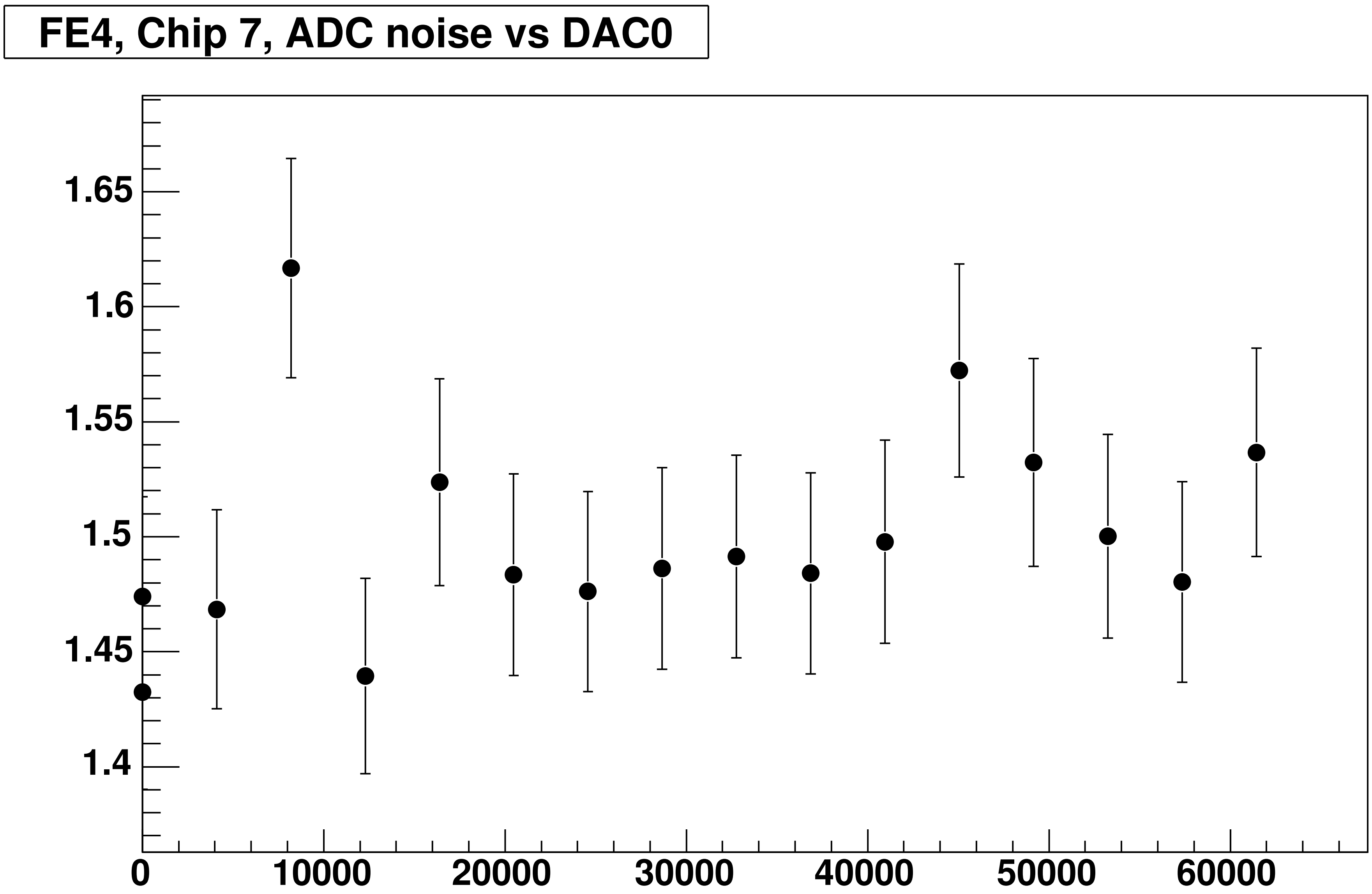

FE4, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1672 / 11
p0 28.81 ± 0.041
p1 0.4499 ± 1.316e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

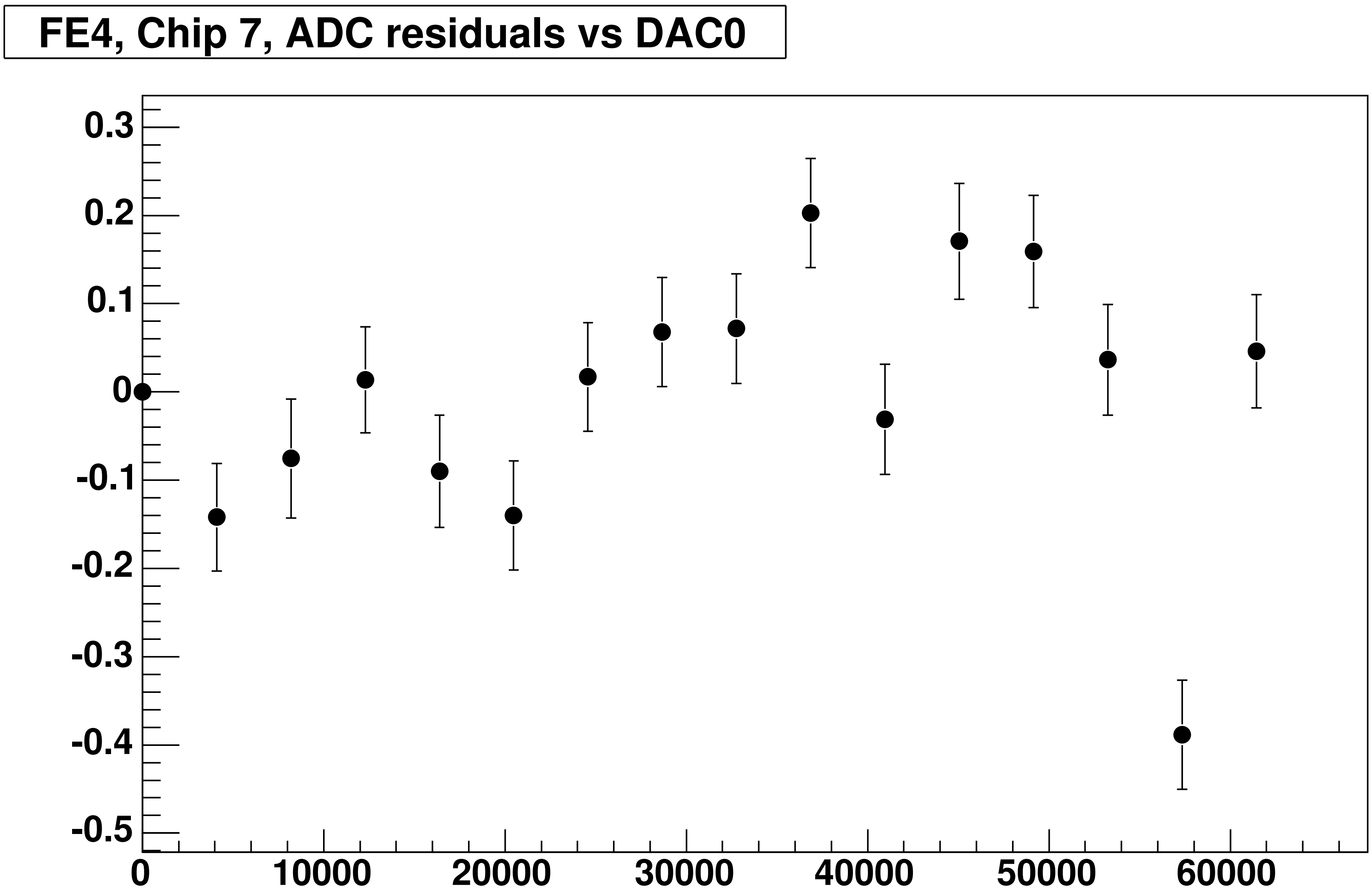


FE4, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

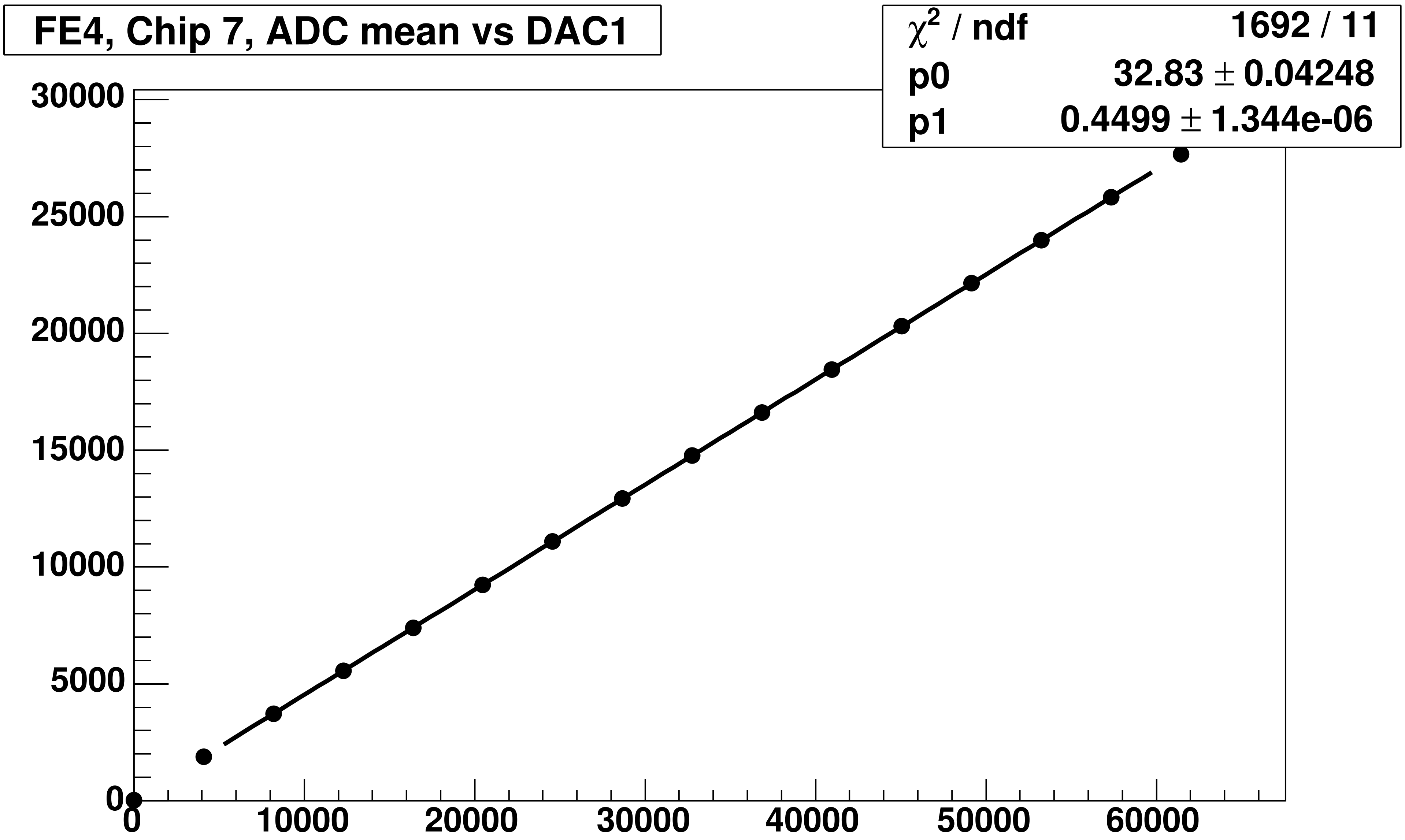

FE4, Chip 7, ADC mean vs DAC0
χ^2 / ndf 75.03 / 11
p0 29.82 ± 0.04131
p1 -5.644e-06 ± 1.142e-06
30
29.8
29.6
29.4
29.2
29
0
10000
20000
30000
40000
50000
60000



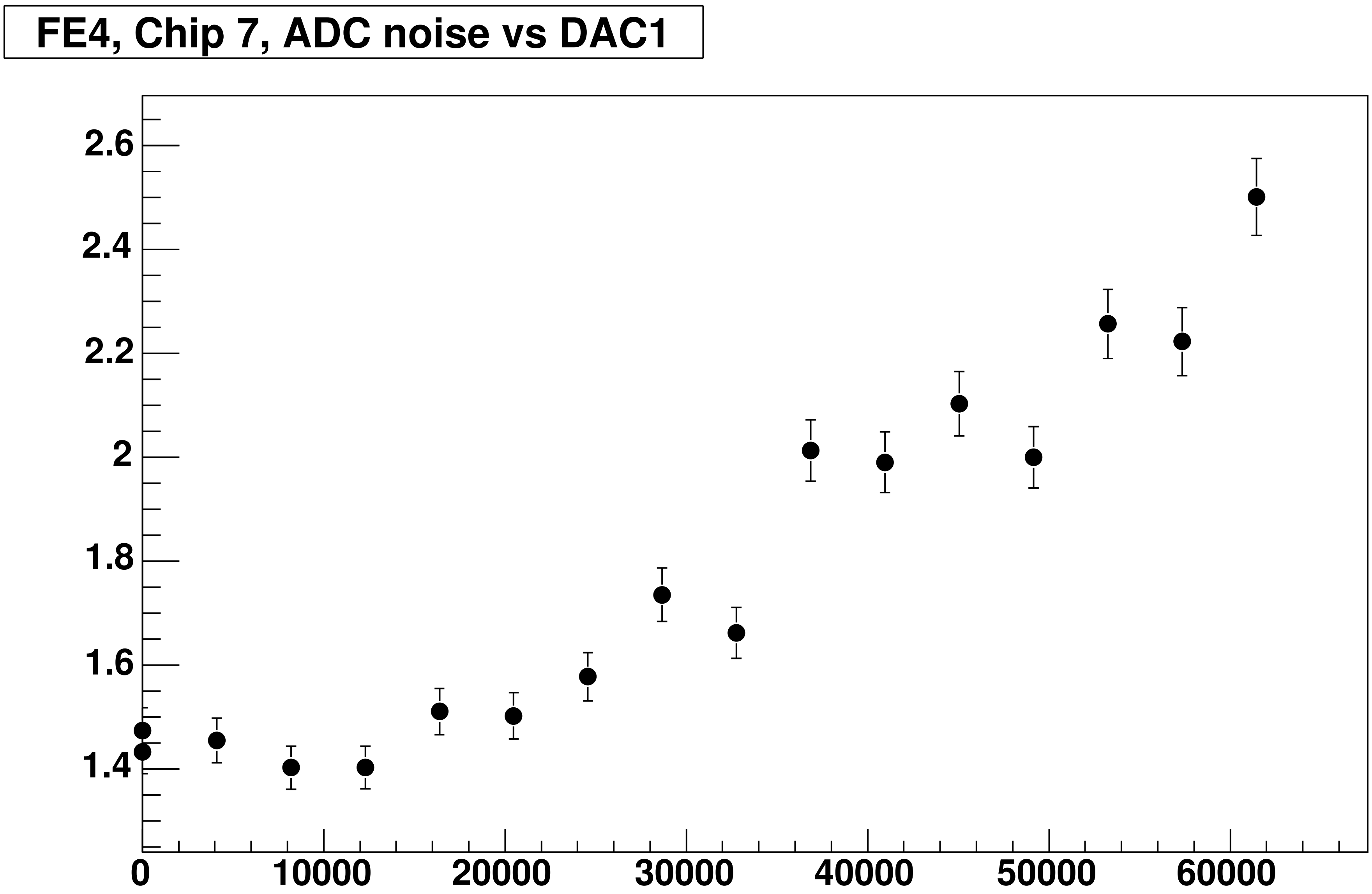
FE4, Chip 7, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

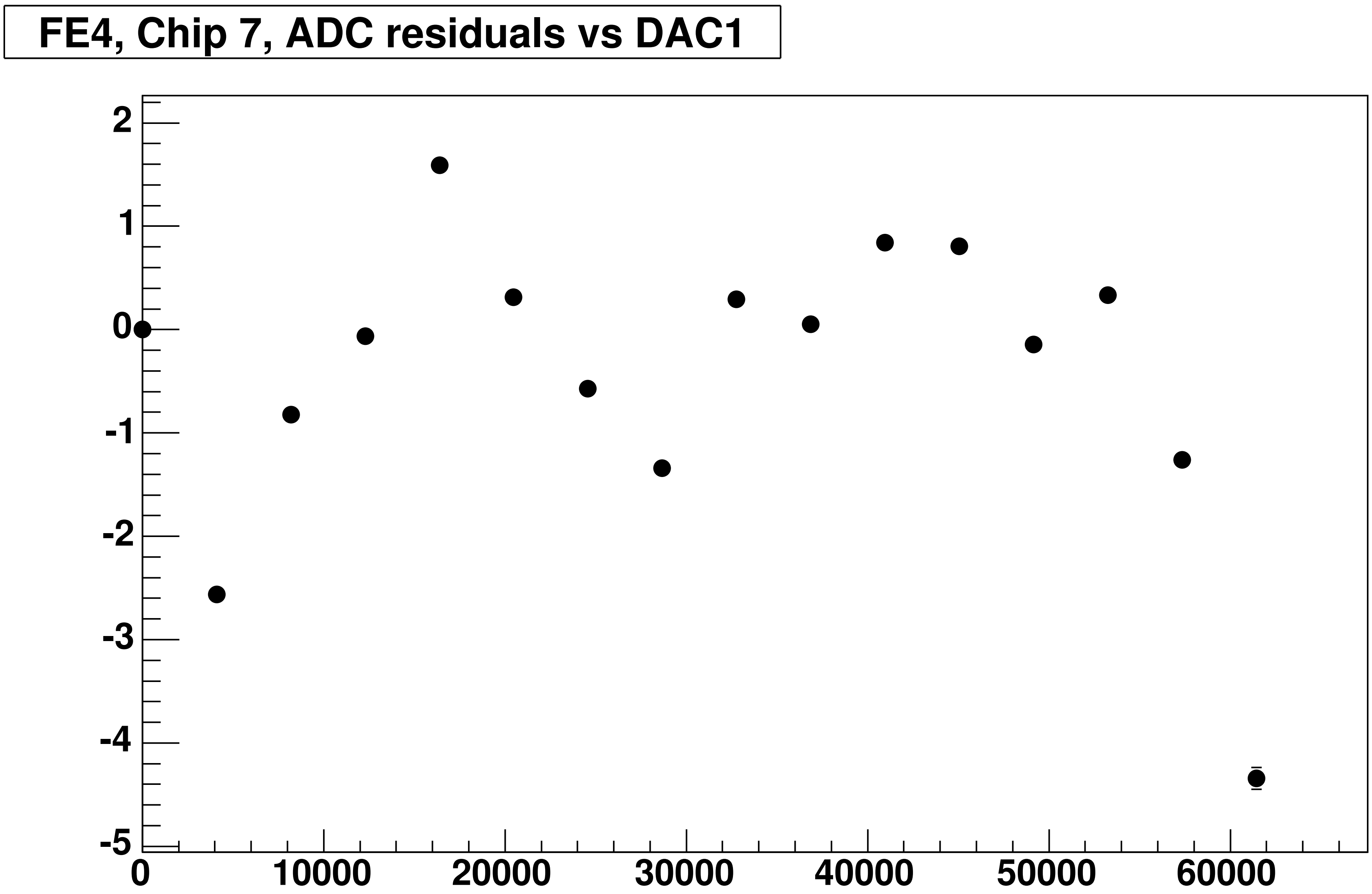


FE4, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000

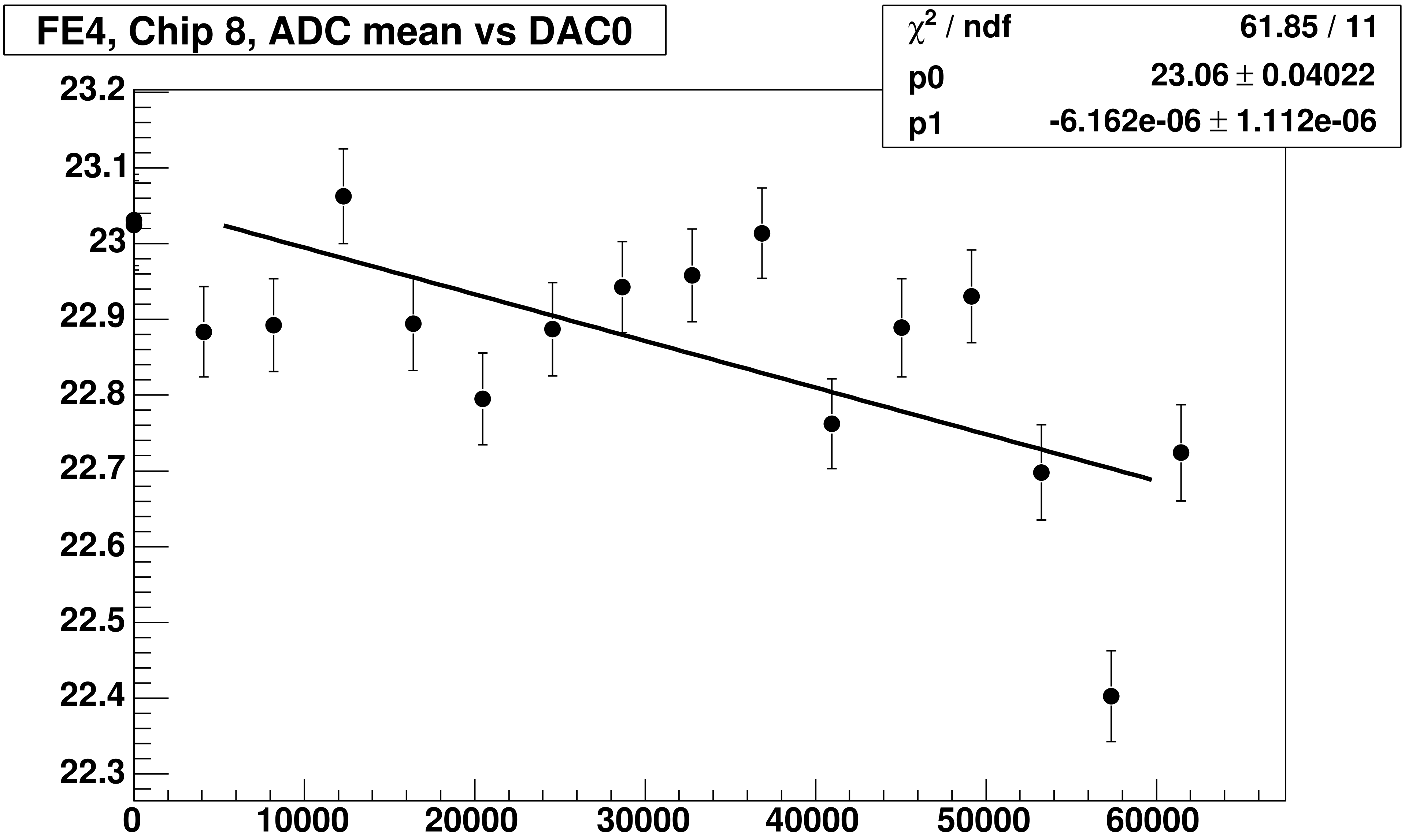


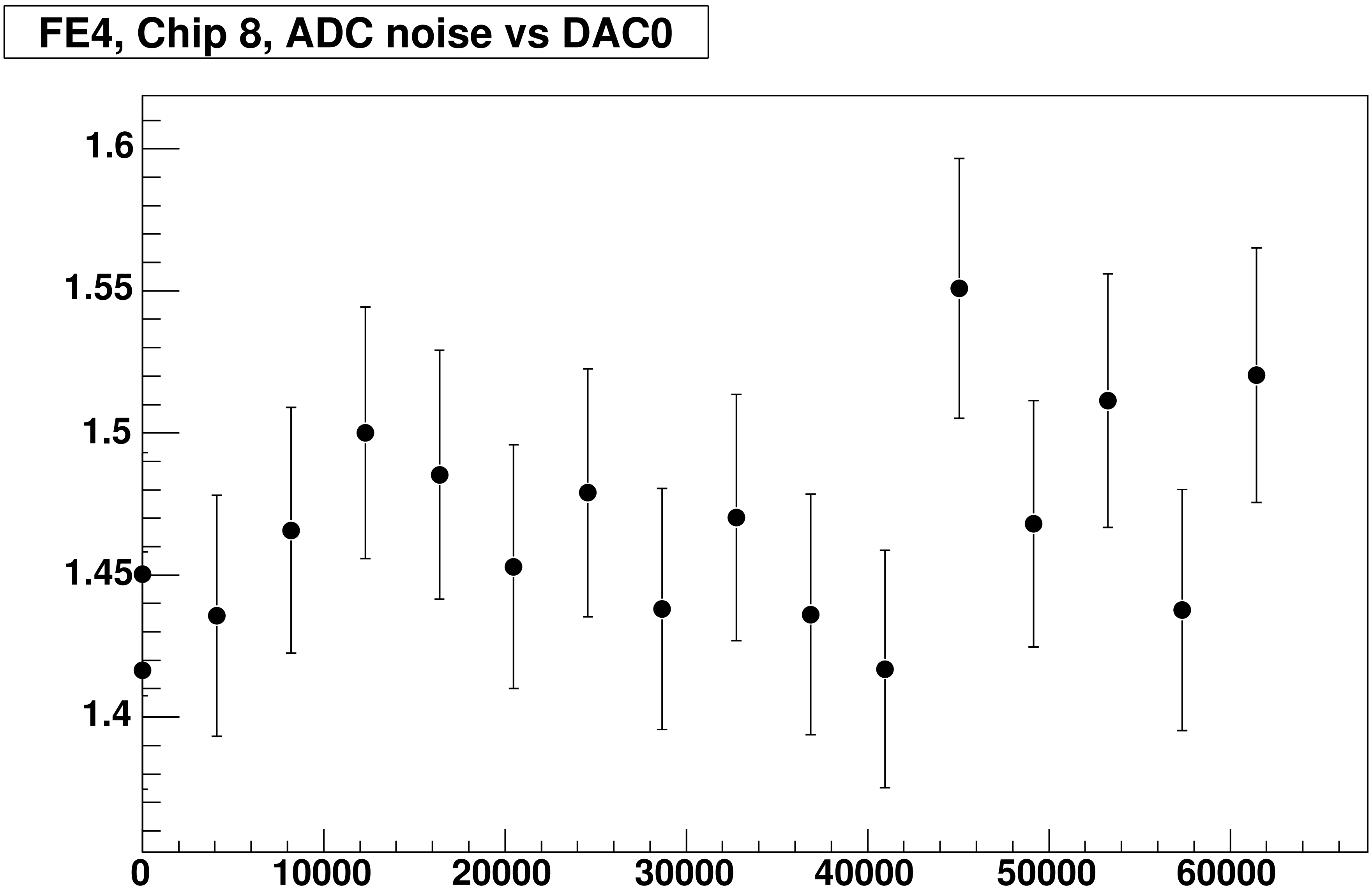
FE4, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1692 / 11
p0 32.83 ± 0.04248
p1 0.4499 ± 1.344e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

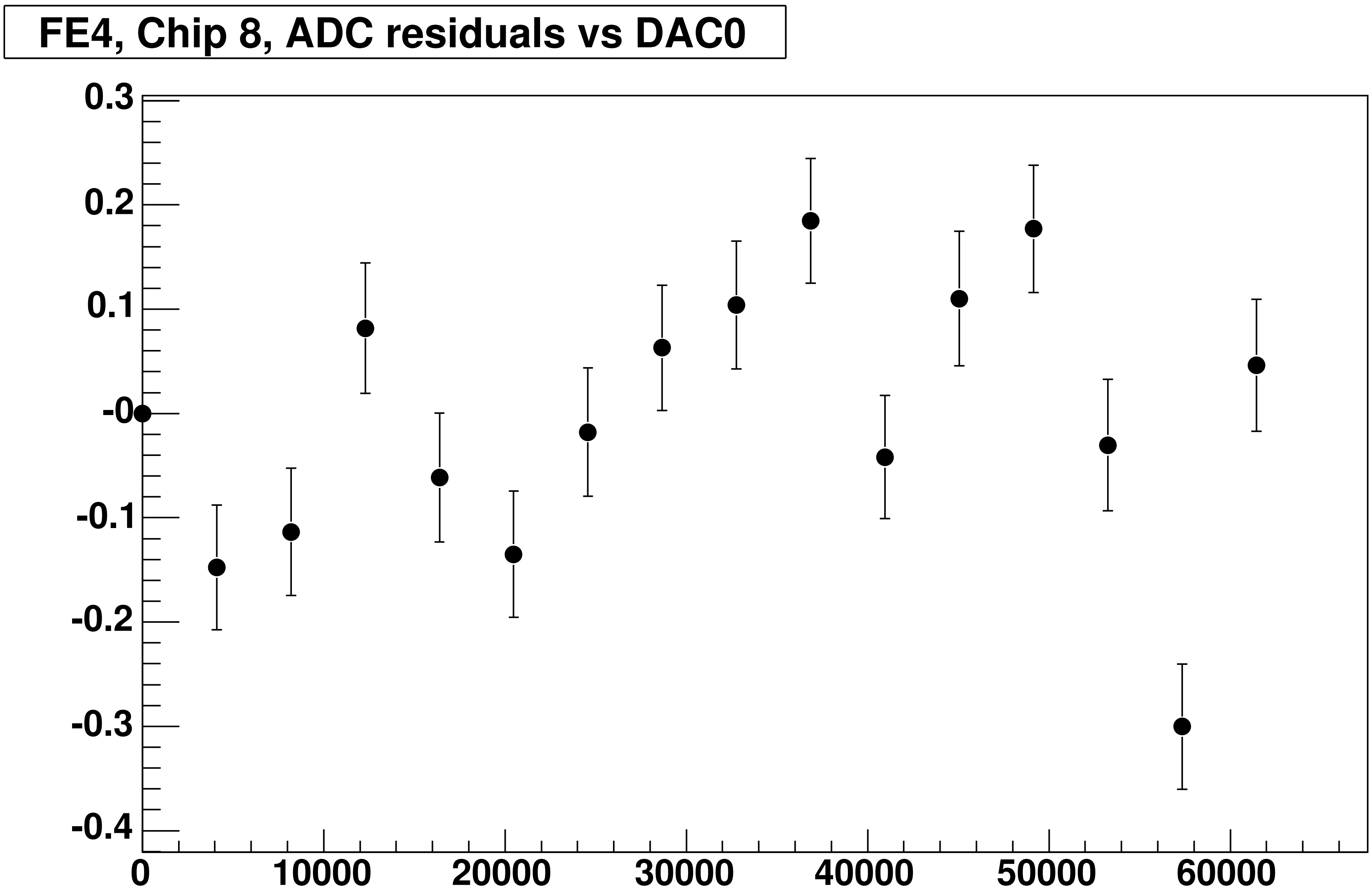


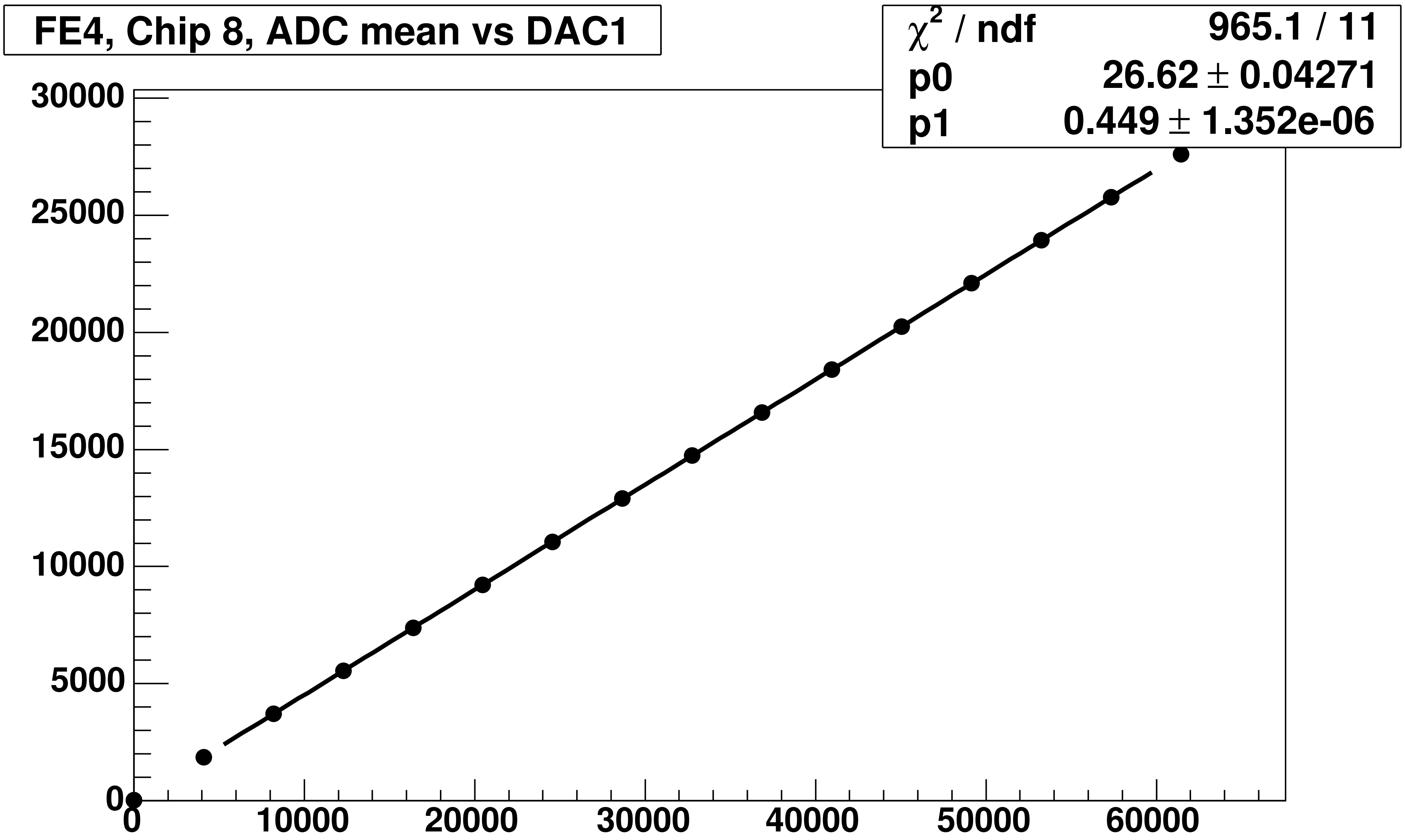
FE4, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE4, Chip 8, ADC mean vs DAC0
χ^2 / ndf 61.85 / 11
p0 23.06 ± 0.04022
p1 -6.162e-06 ± 1.112e-06
23.2
23.1
23
22.9
22.8
22.7
22.6
22.5
22.4
22.3
0
10000
20000
30000
40000
50000
60000

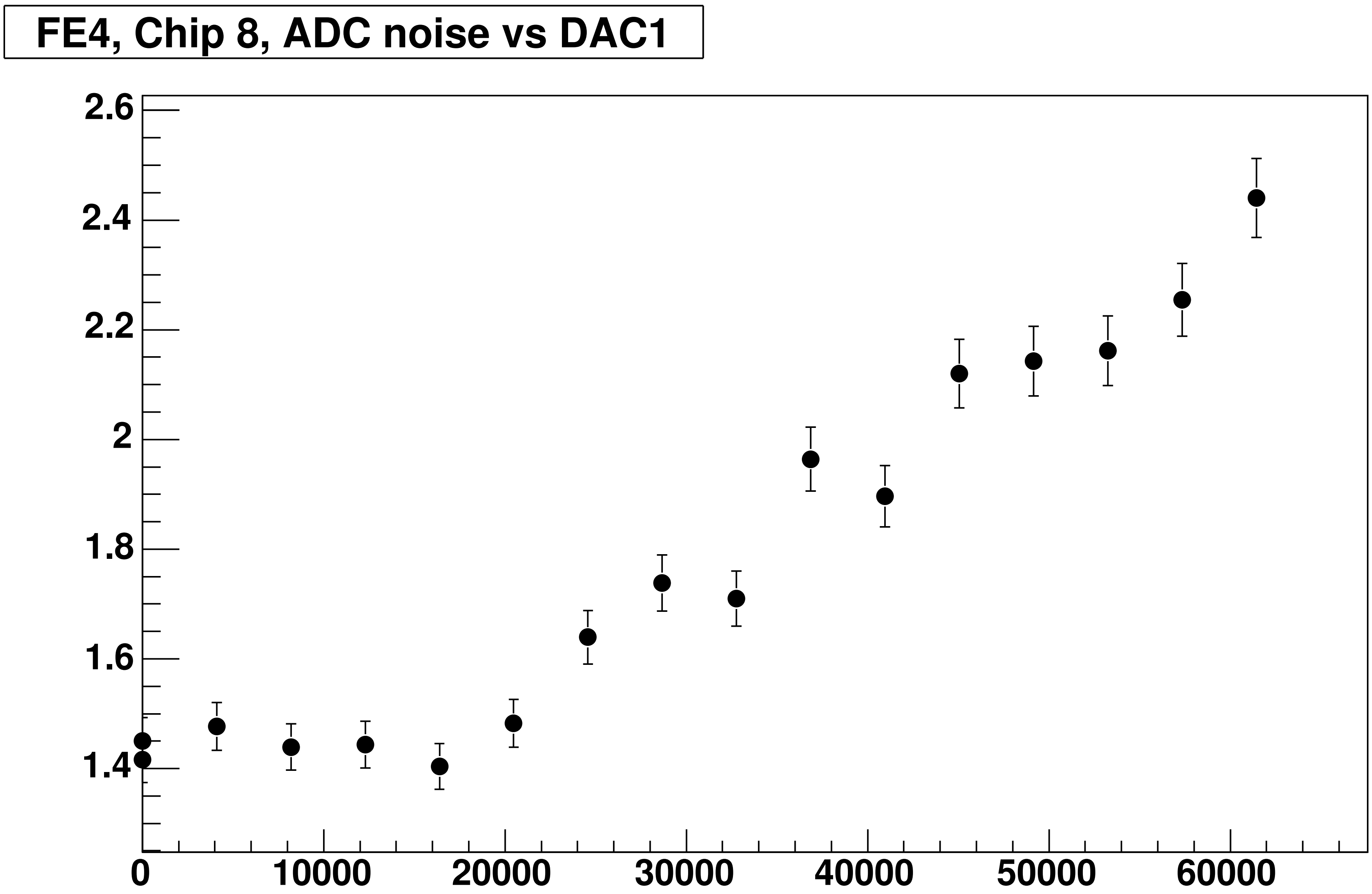


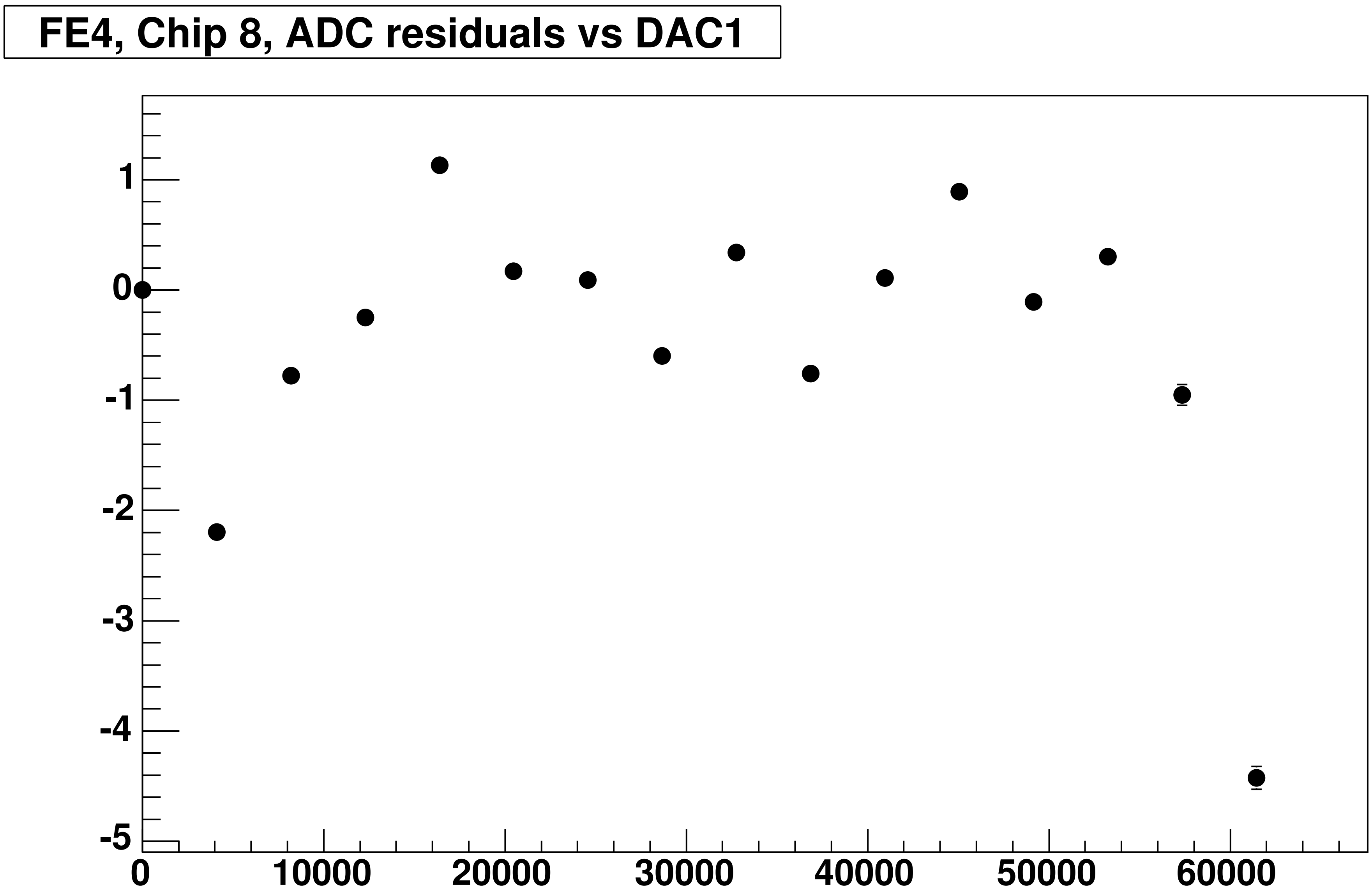
FE4, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

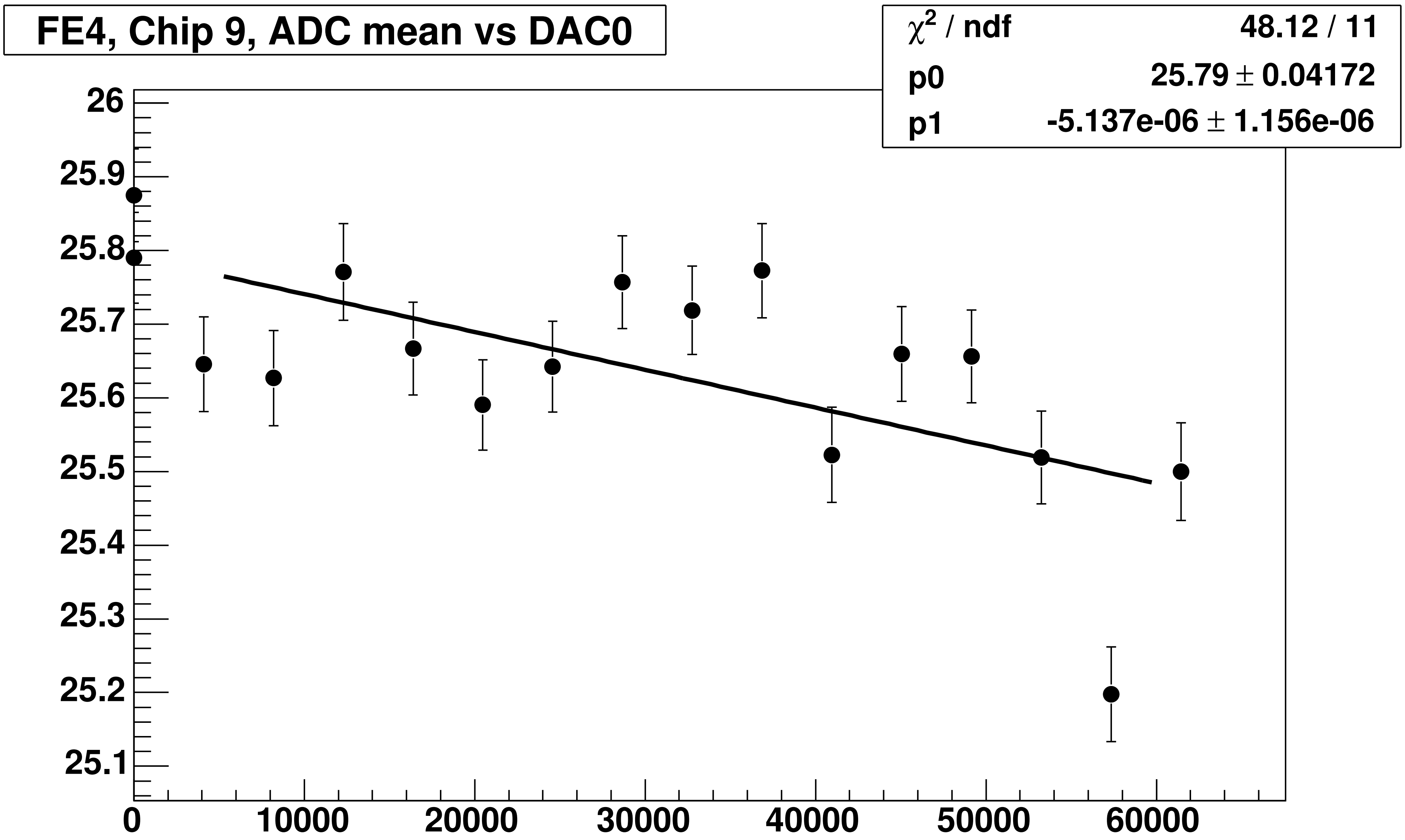

FE4, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



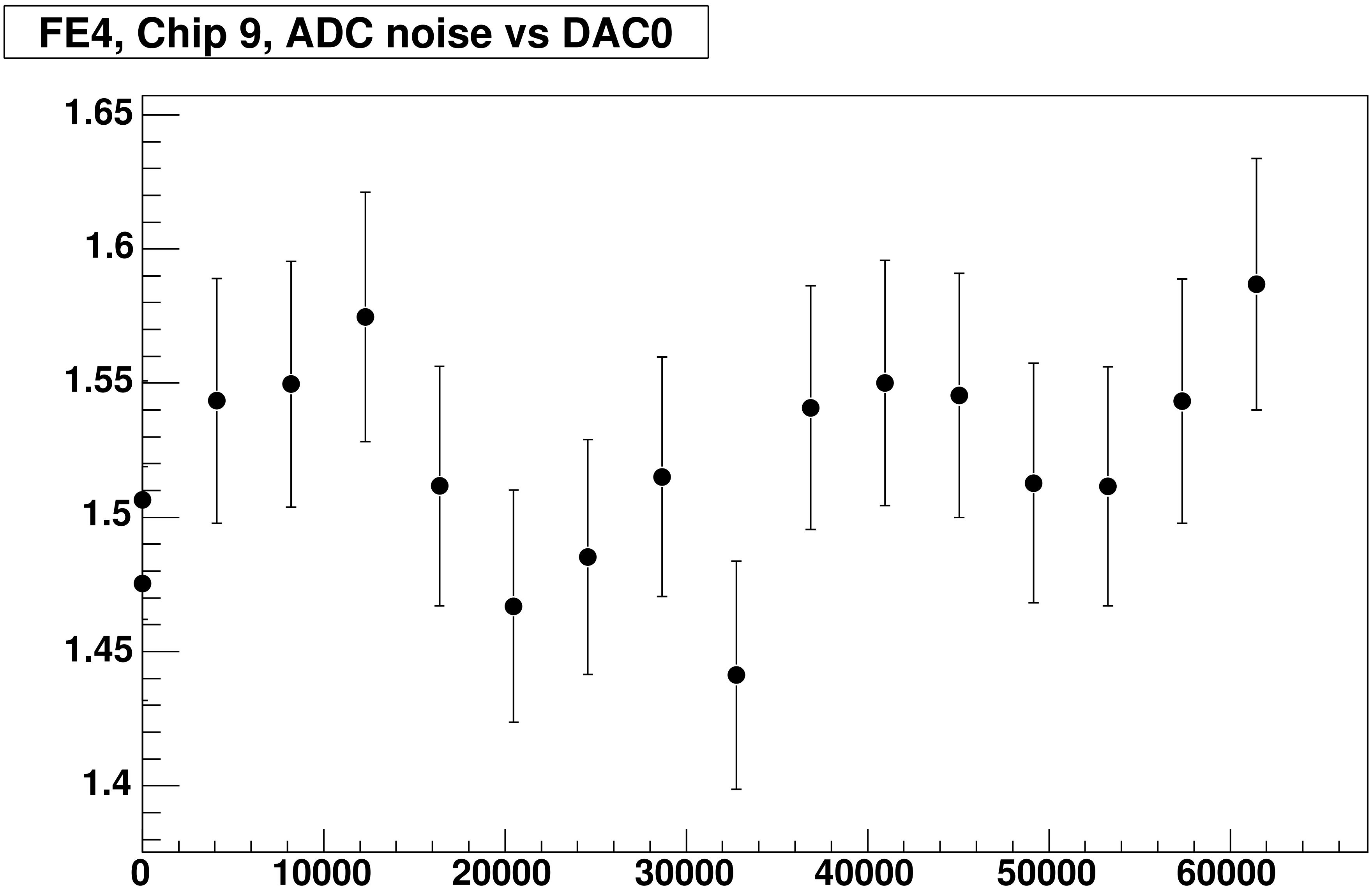
FE4, Chip 8, ADC mean vs DAC1
χ2 / ndf 965.1 / 11
p0 26.62 ± 0.04271
p1 0.449 ± 1.352e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

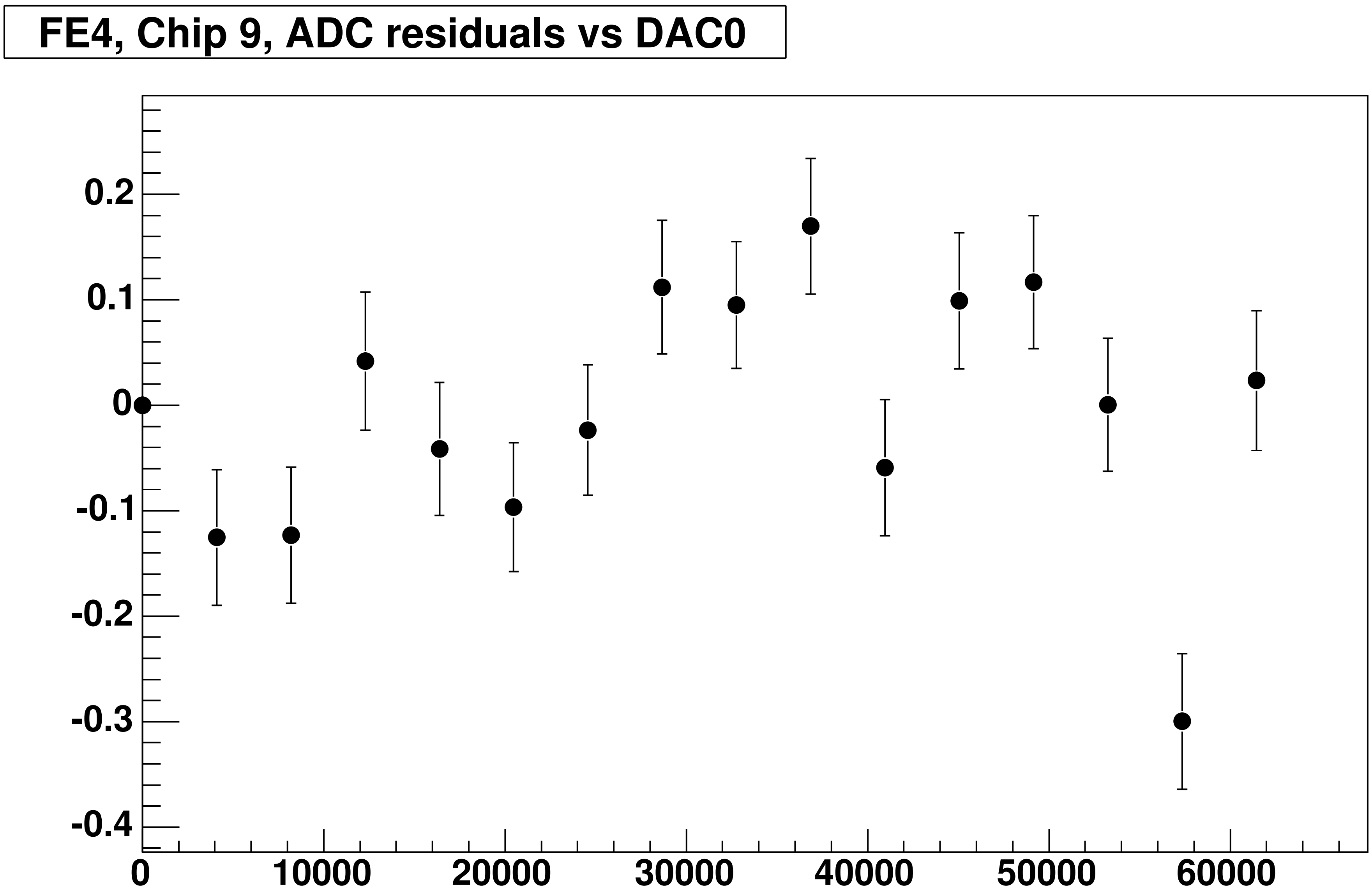

FE4, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

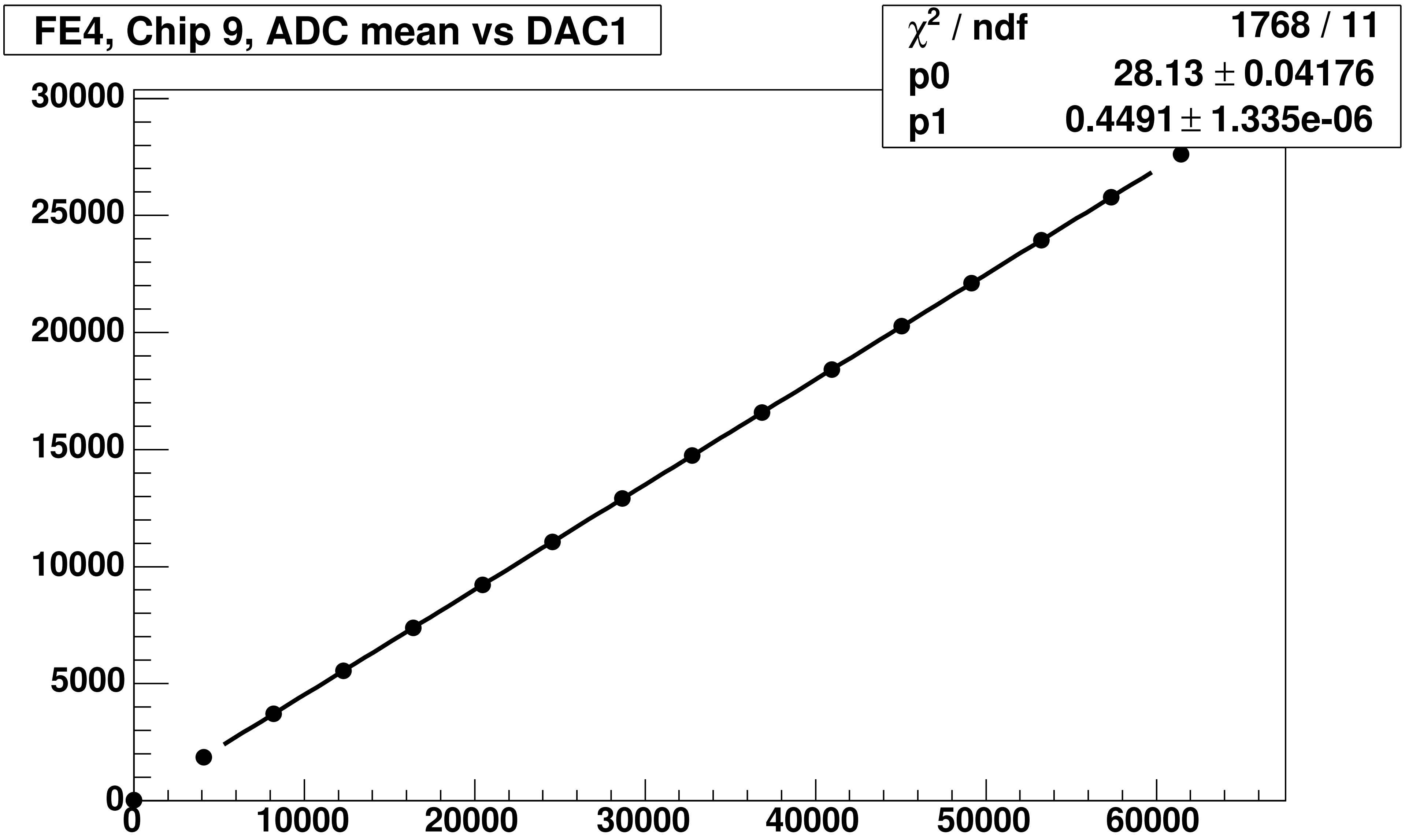

FE4, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



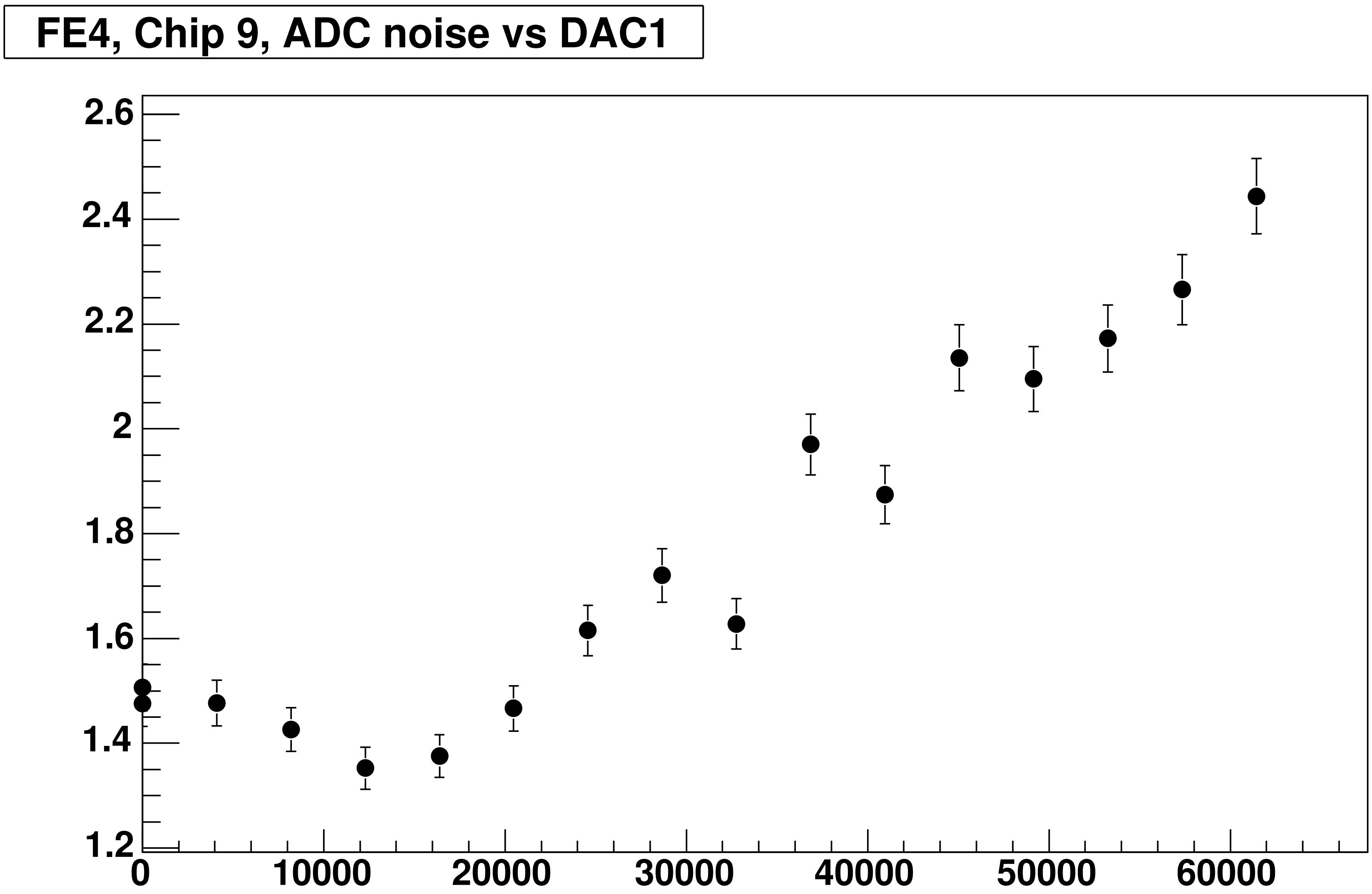
FE4, Chip 9, ADC mean vs DAC0
χ2 / ndf 48.12 / 11
p0 25.79 ± 0.04172
p1 -5.137e-06 ± 1.156e-06
26
25.9
25.8
25.7
25.6
25.5
25.4
25.3
25.2
25.1
0
10000
20000
30000
40000
50000
60000

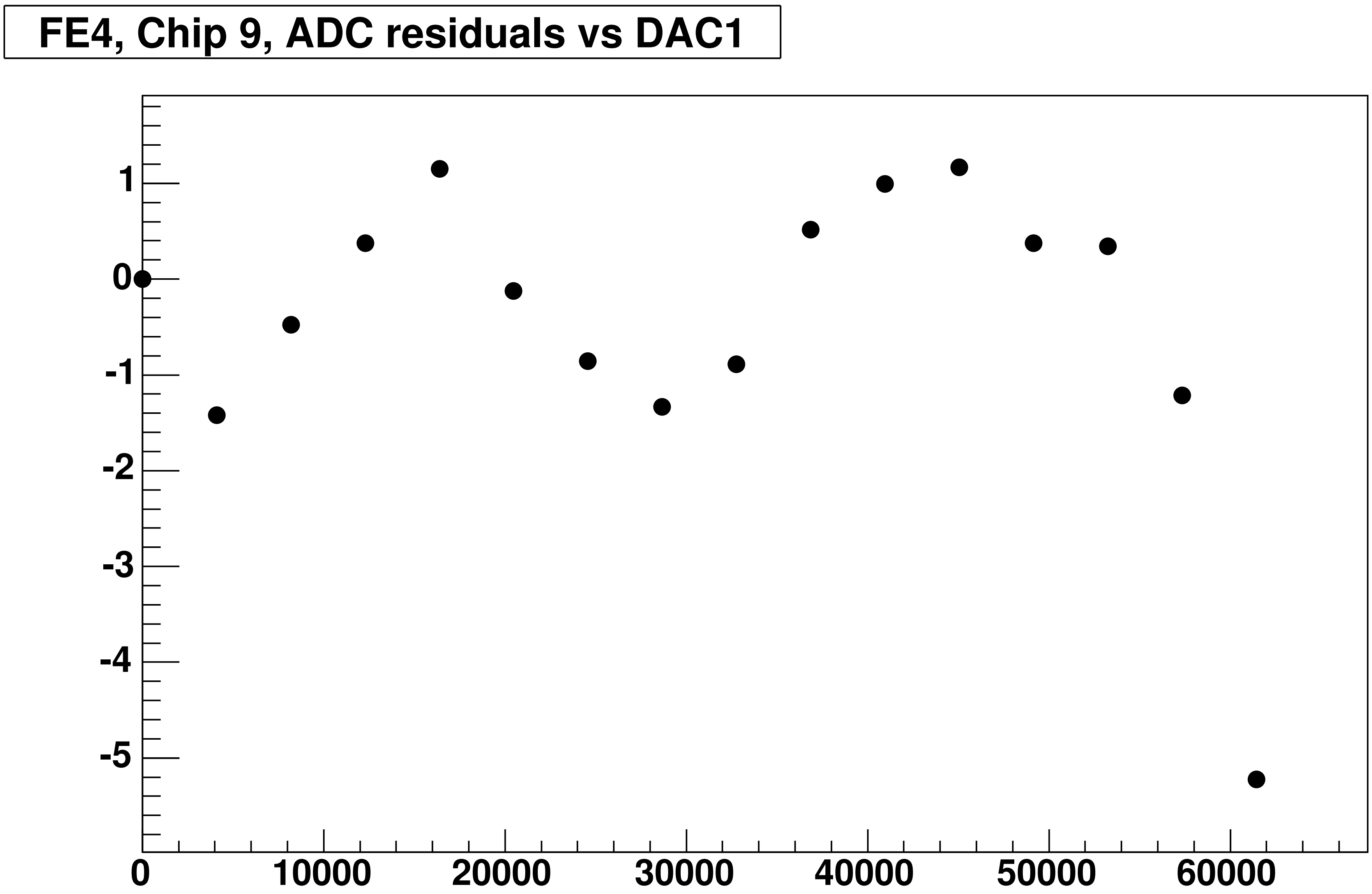

FE4, Chip 9, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

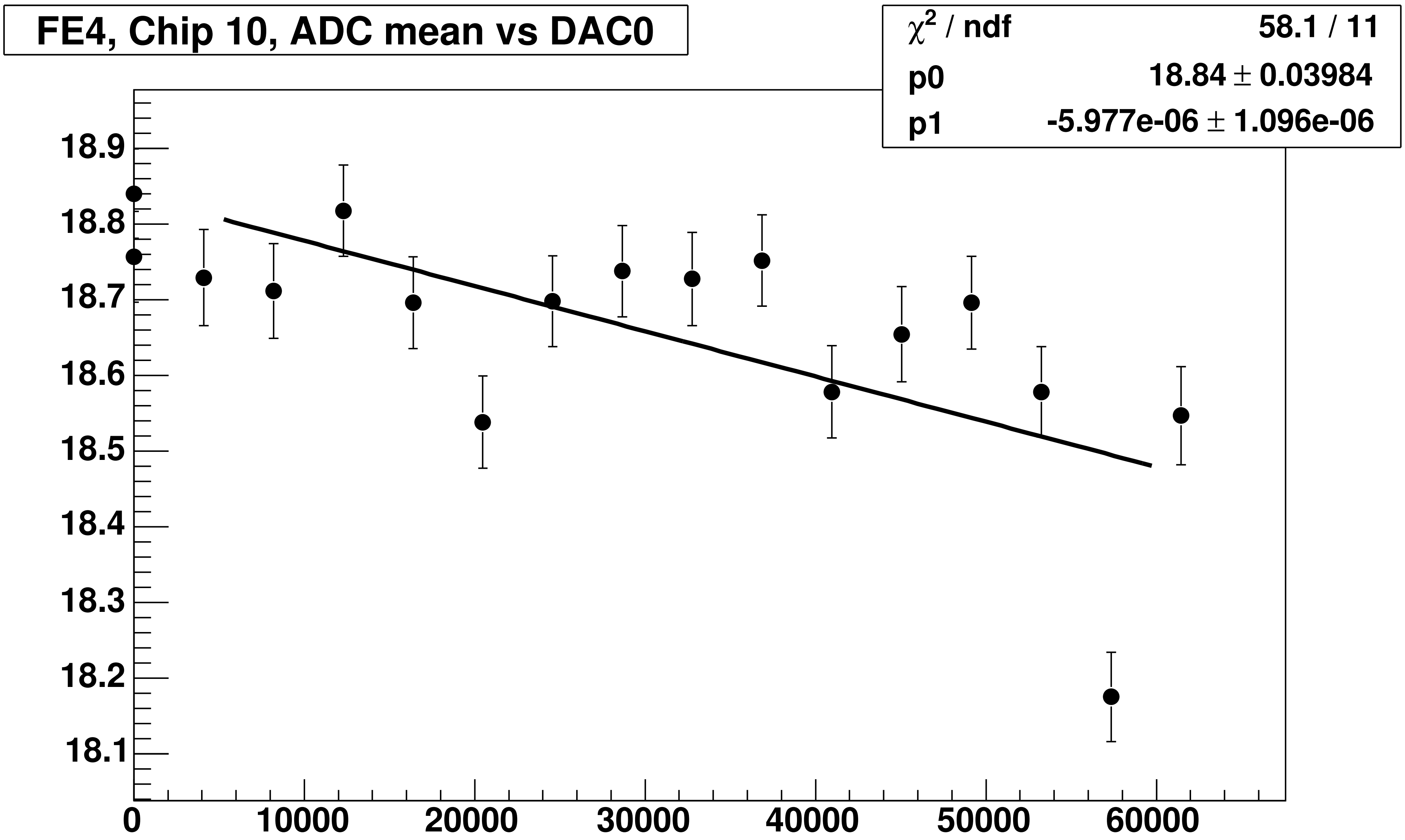

FE4, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



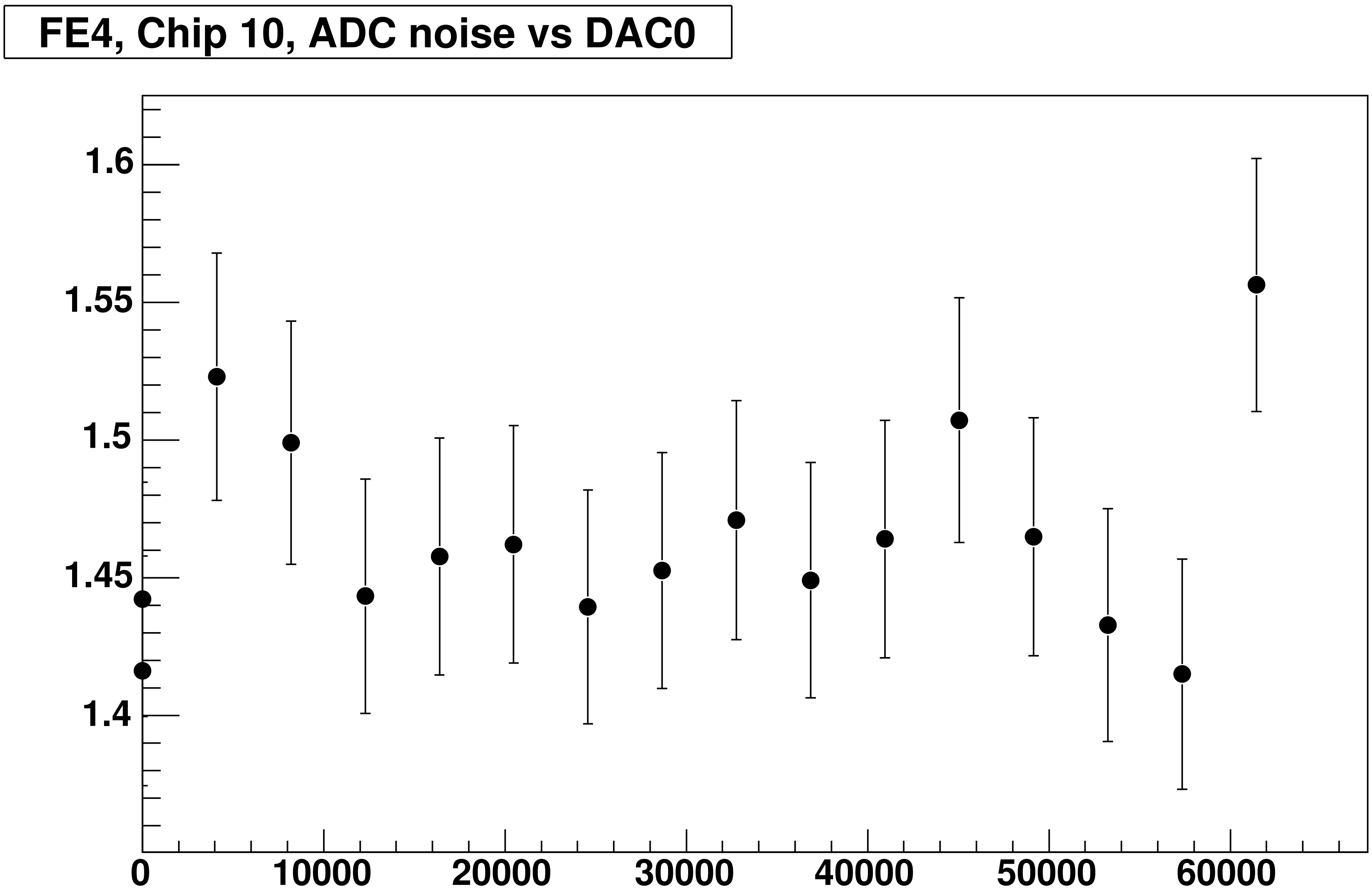
FE4, Chip 9, ADC mean vs DAC1
χ² / ndf 1768 / 11
p0 28.13 ± 0.04176
p1 0.4491 ± 1.335e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

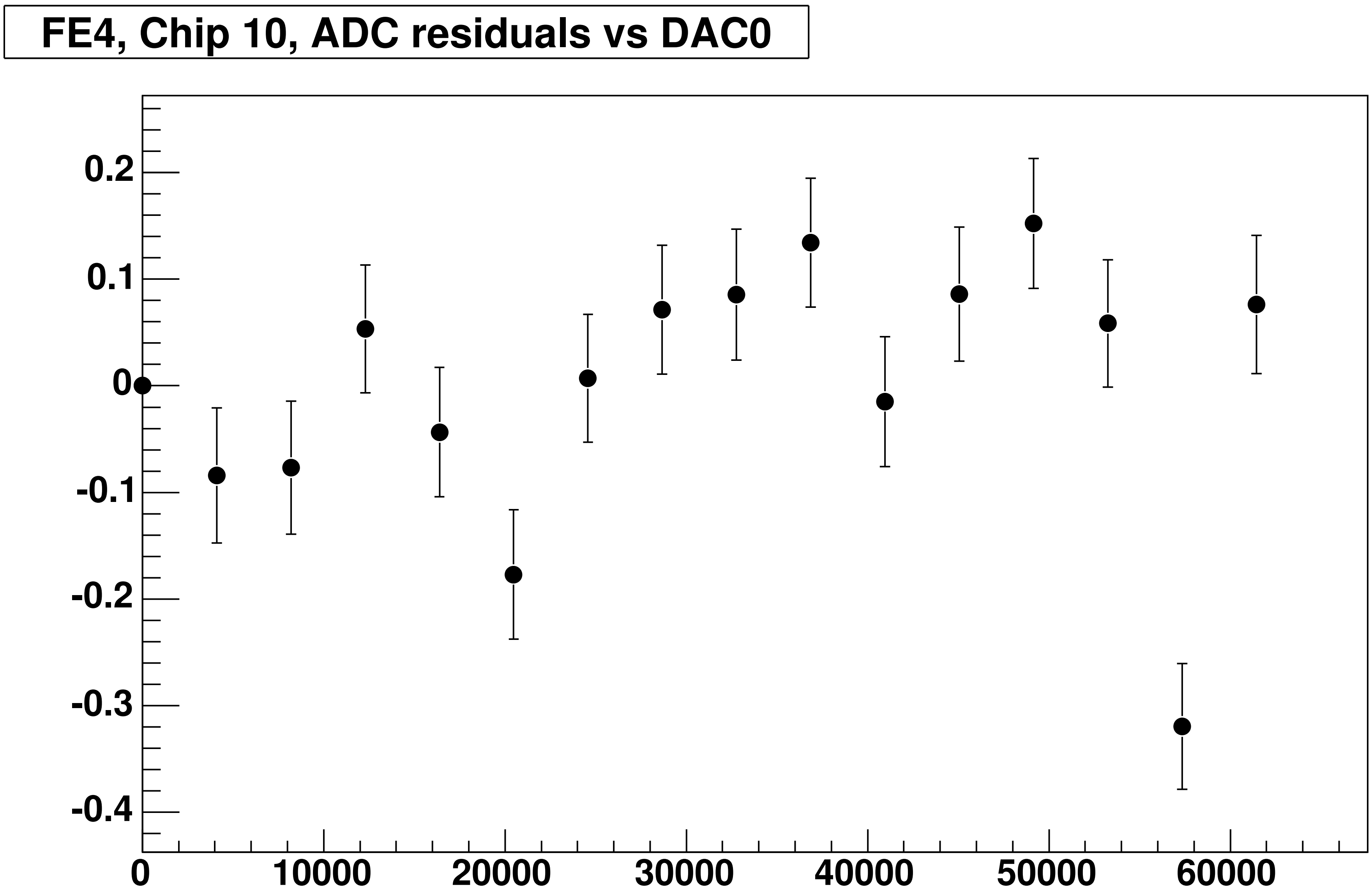

FE4, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

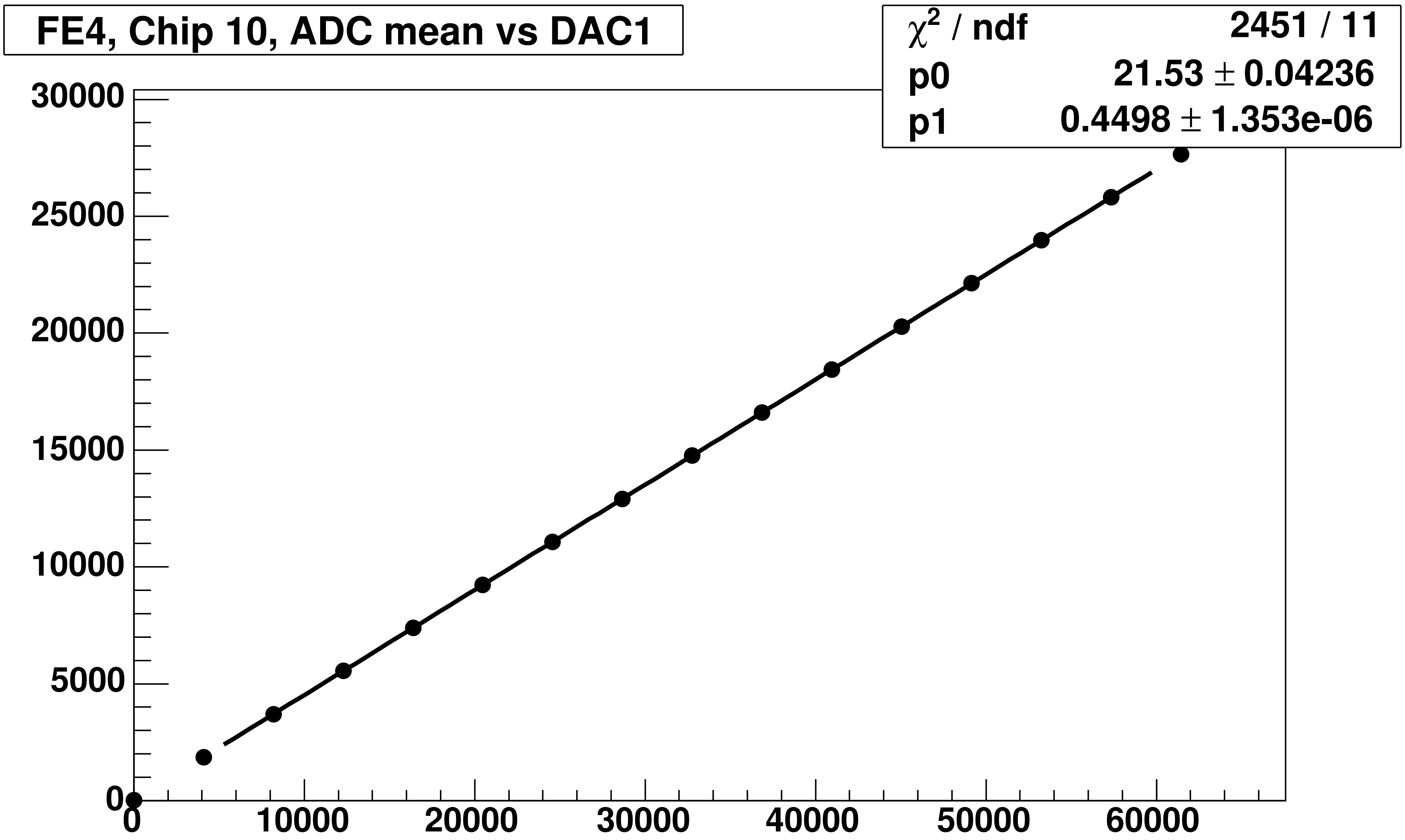

FE4, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



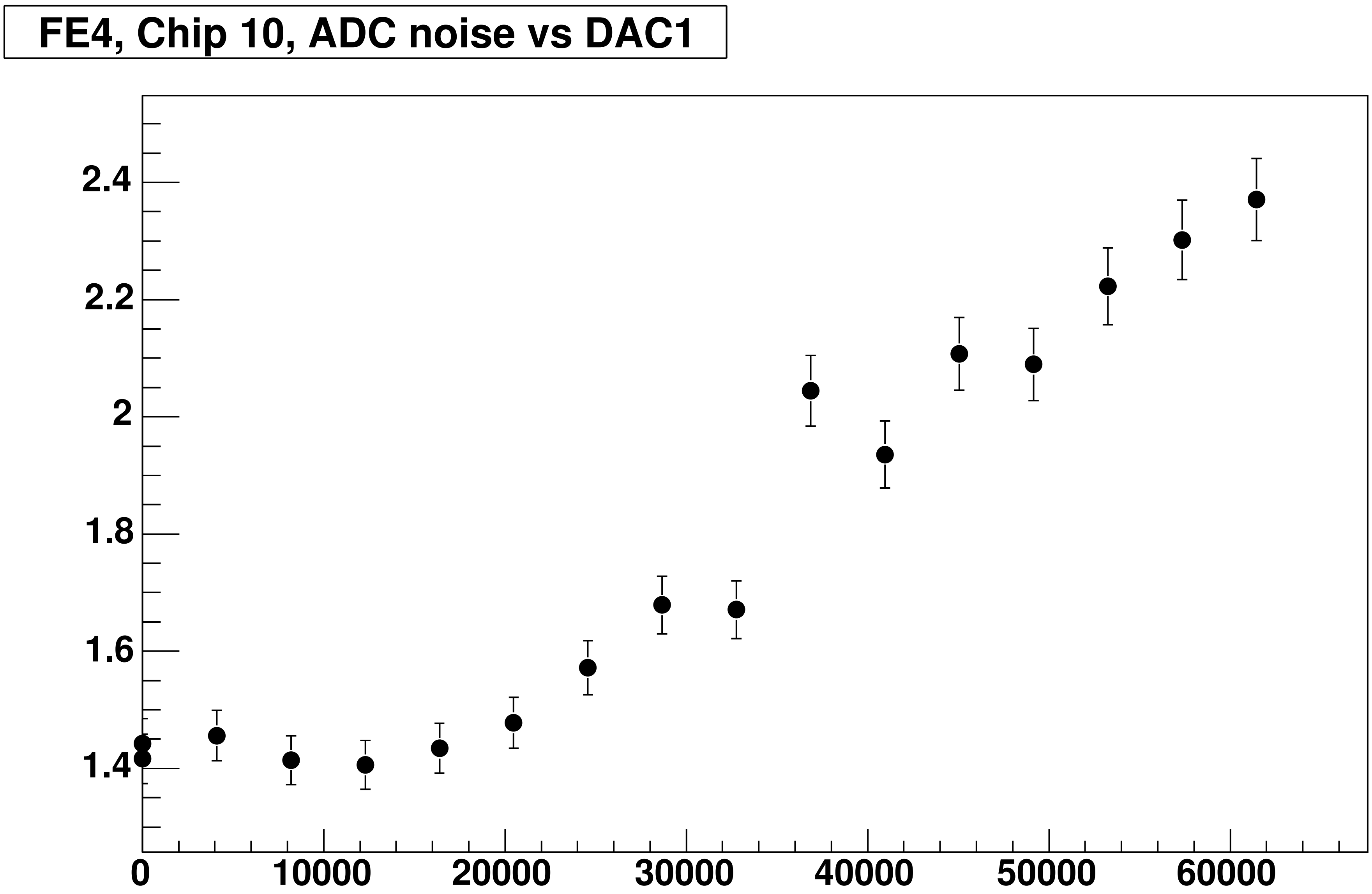
FE4, Chip 10, ADC mean vs DAC0
χ^2 / ndf 58.1 / 11
p0 18.84 ± 0.03984
p1 -5.977e-06 ± 1.096e-06
18.9
18.8
18.7
18.6
18.5
18.4
18.3
18.2
18.1
0
10000
20000
30000
40000
50000
60000

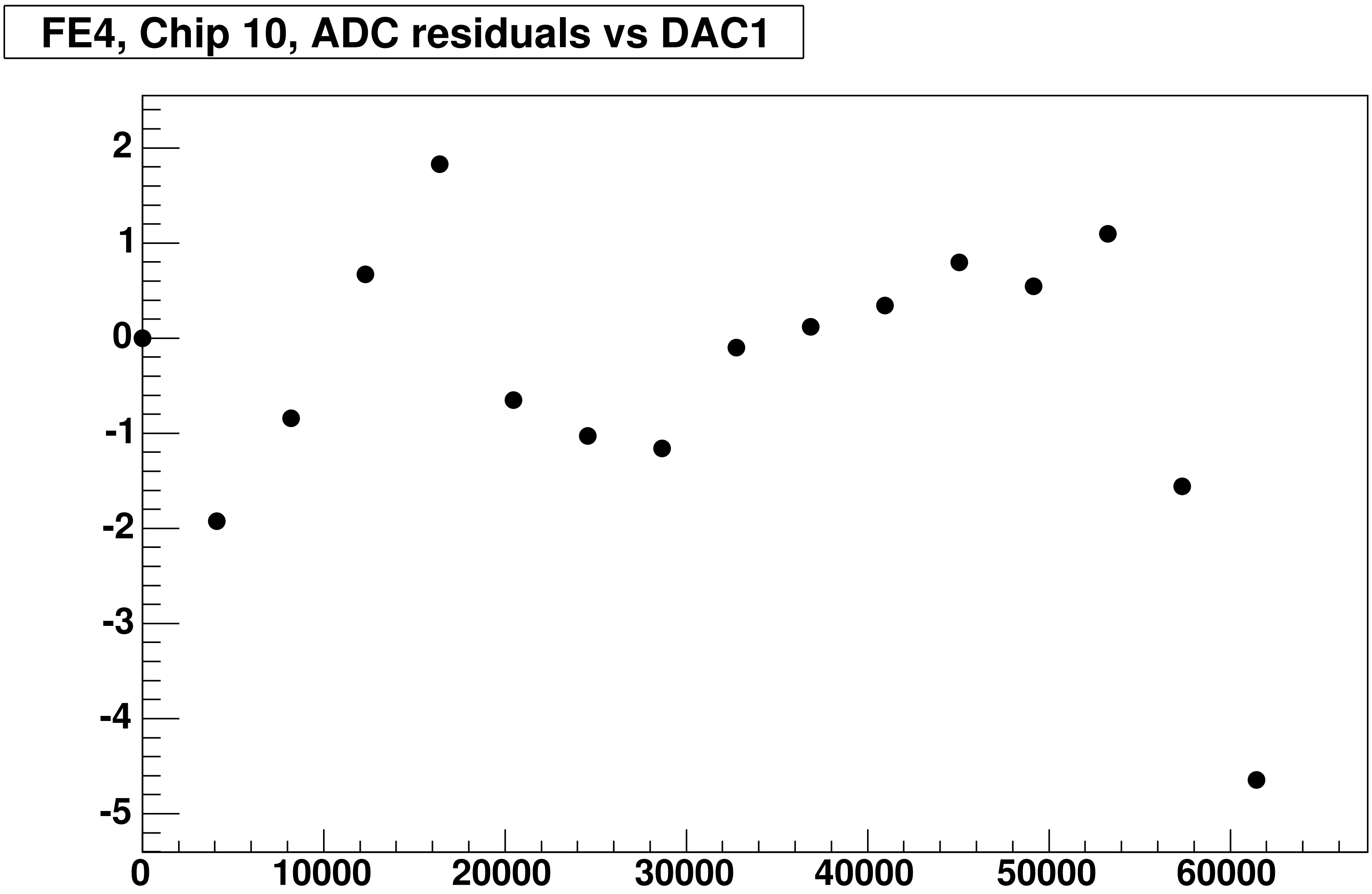

FE4, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

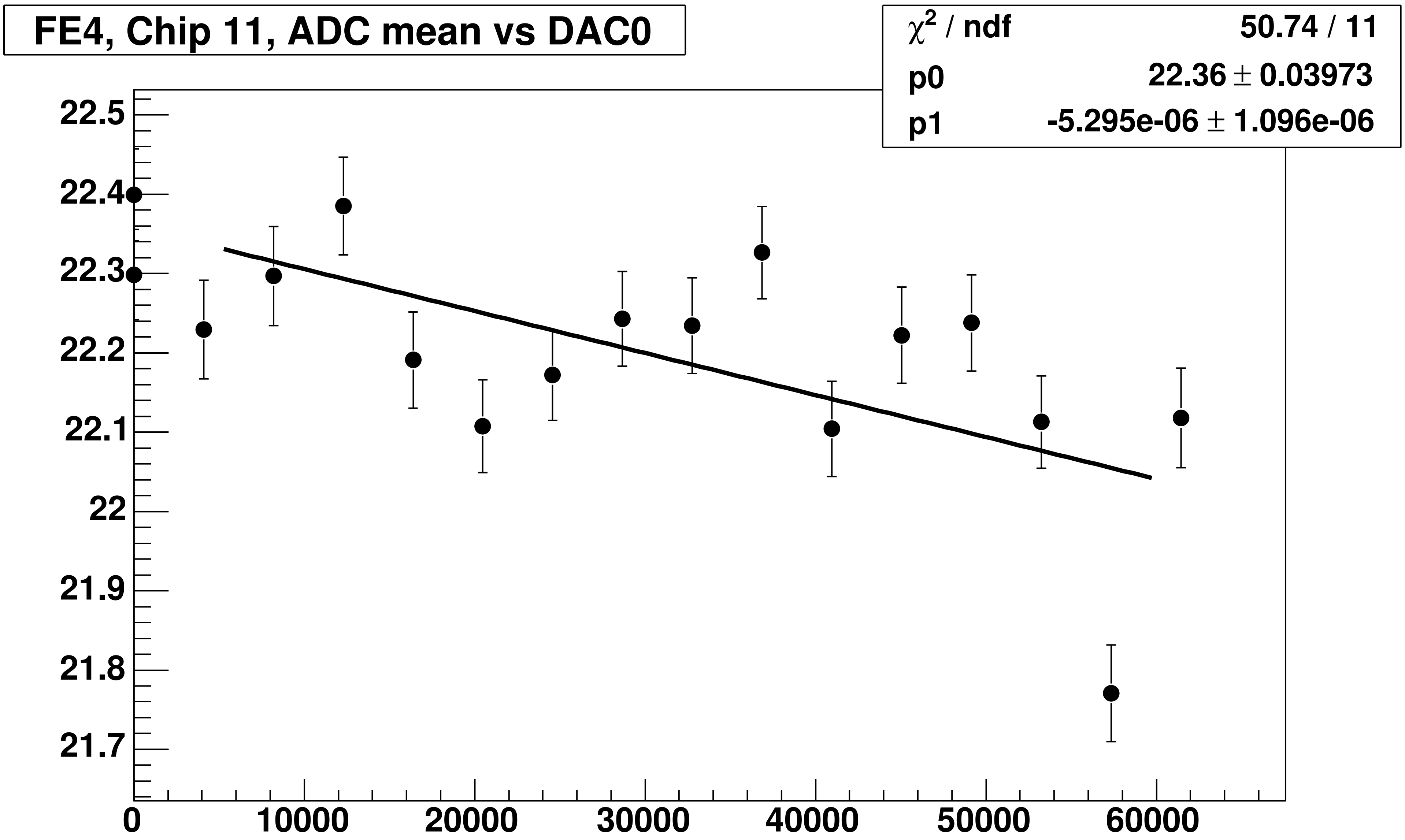

FE4, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



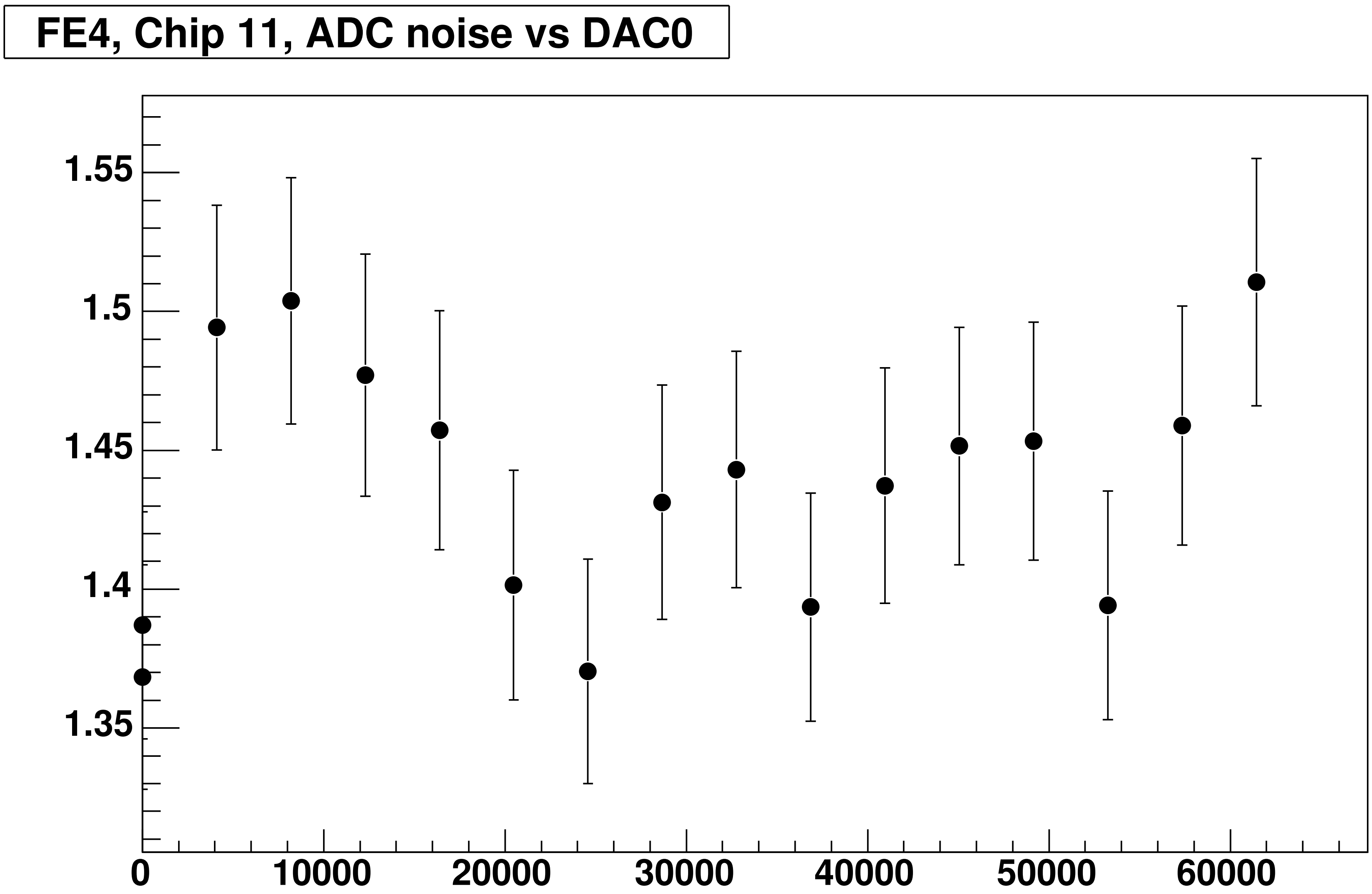
FE4, Chip 10, ADC mean vs DAC1
χ^2 / ndf 2451 / 11
p0 21.53 ± 0.04236
p1 0.4498 ± 1.353e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

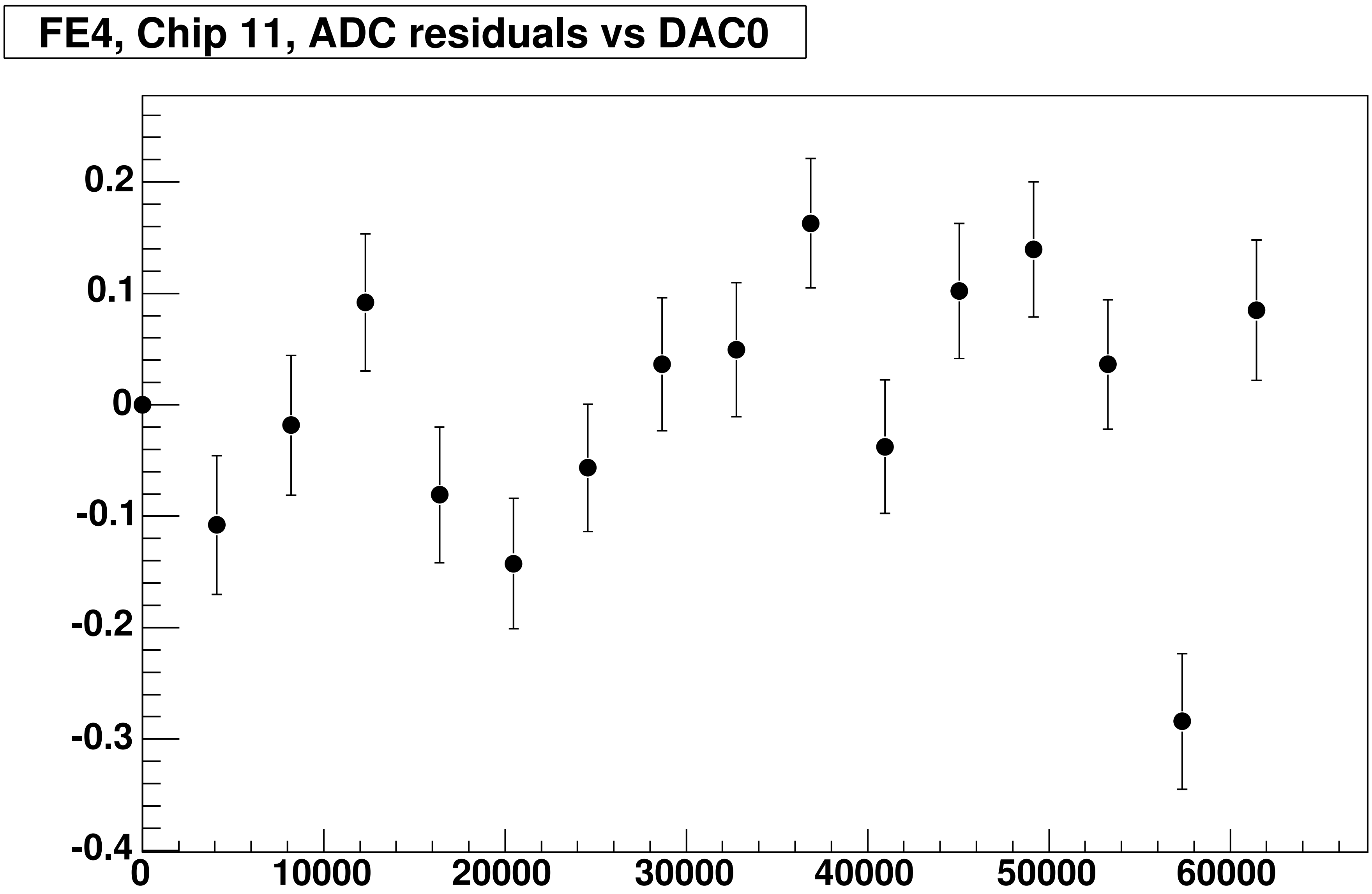

FE4, Chip 10, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

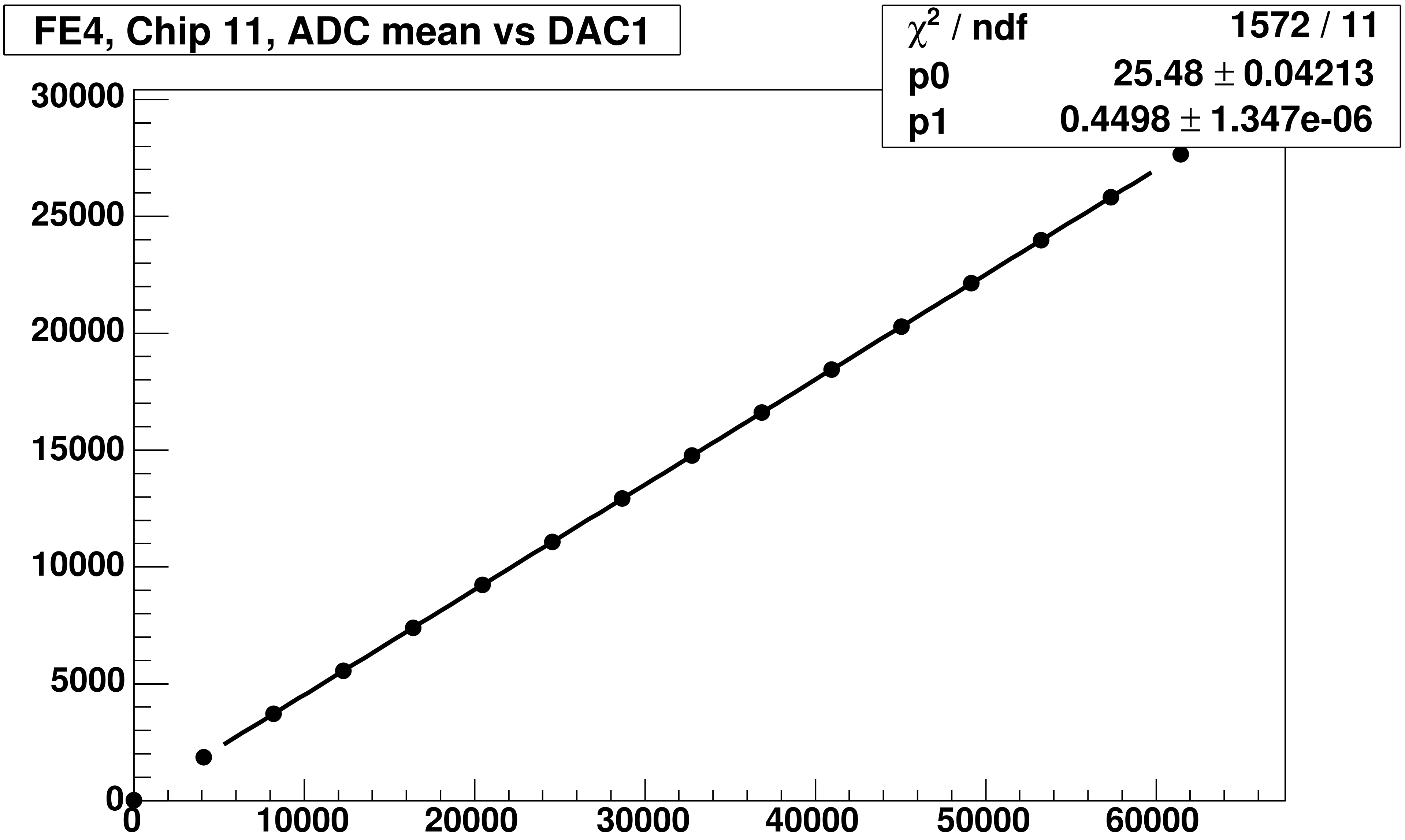

FE4, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

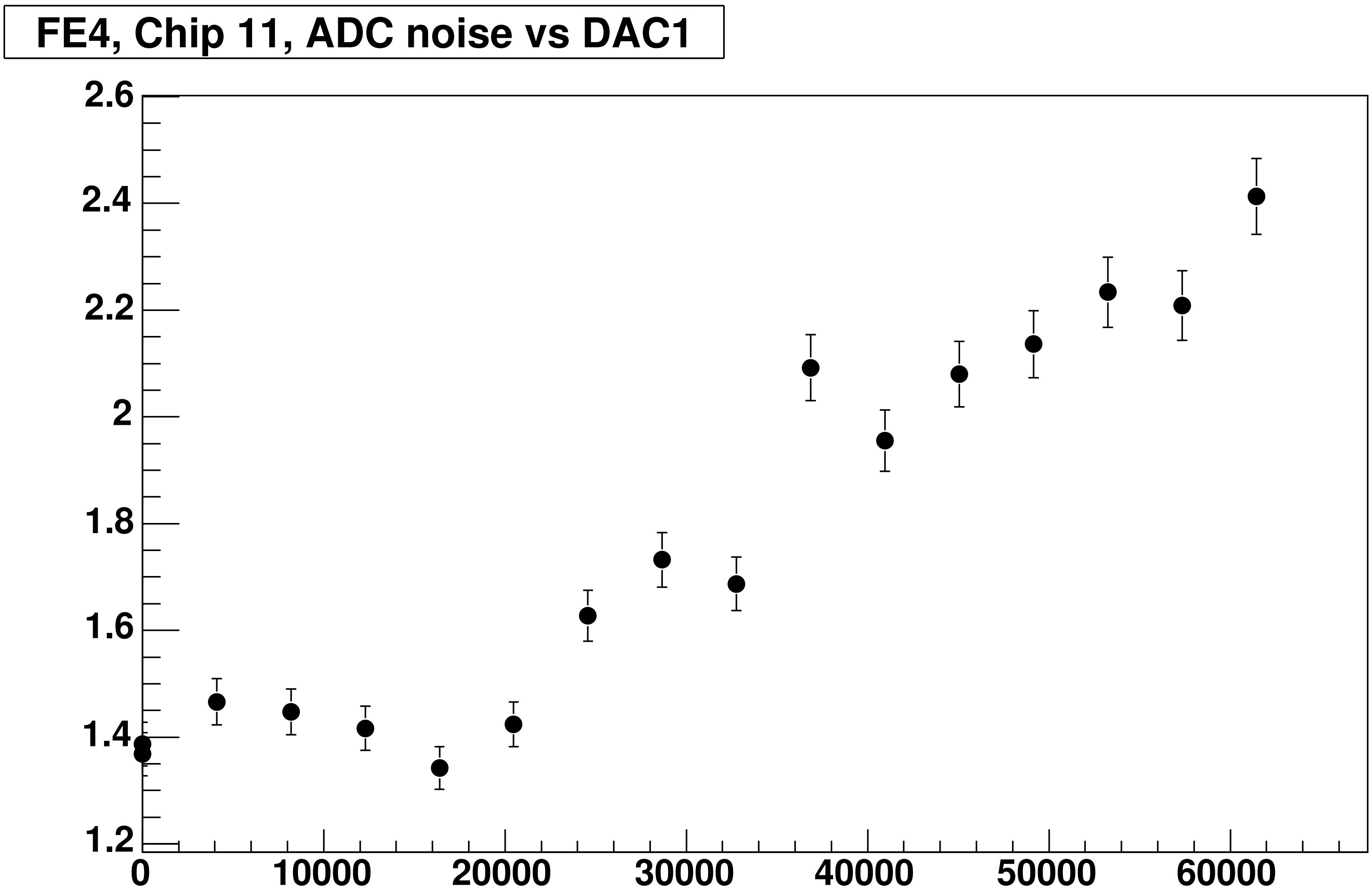


FE4, Chip 11, ADC mean vs DAC0
χ^2 / ndf 50.74 / 11
p0 22.36 ± 0.03973
p1 -5.295e-06 ± 1.096e-06
22.5
22.4
22.3
22.2
22.1
22
21.9
21.8
21.7
0
10000
20000
30000
40000
50000
60000

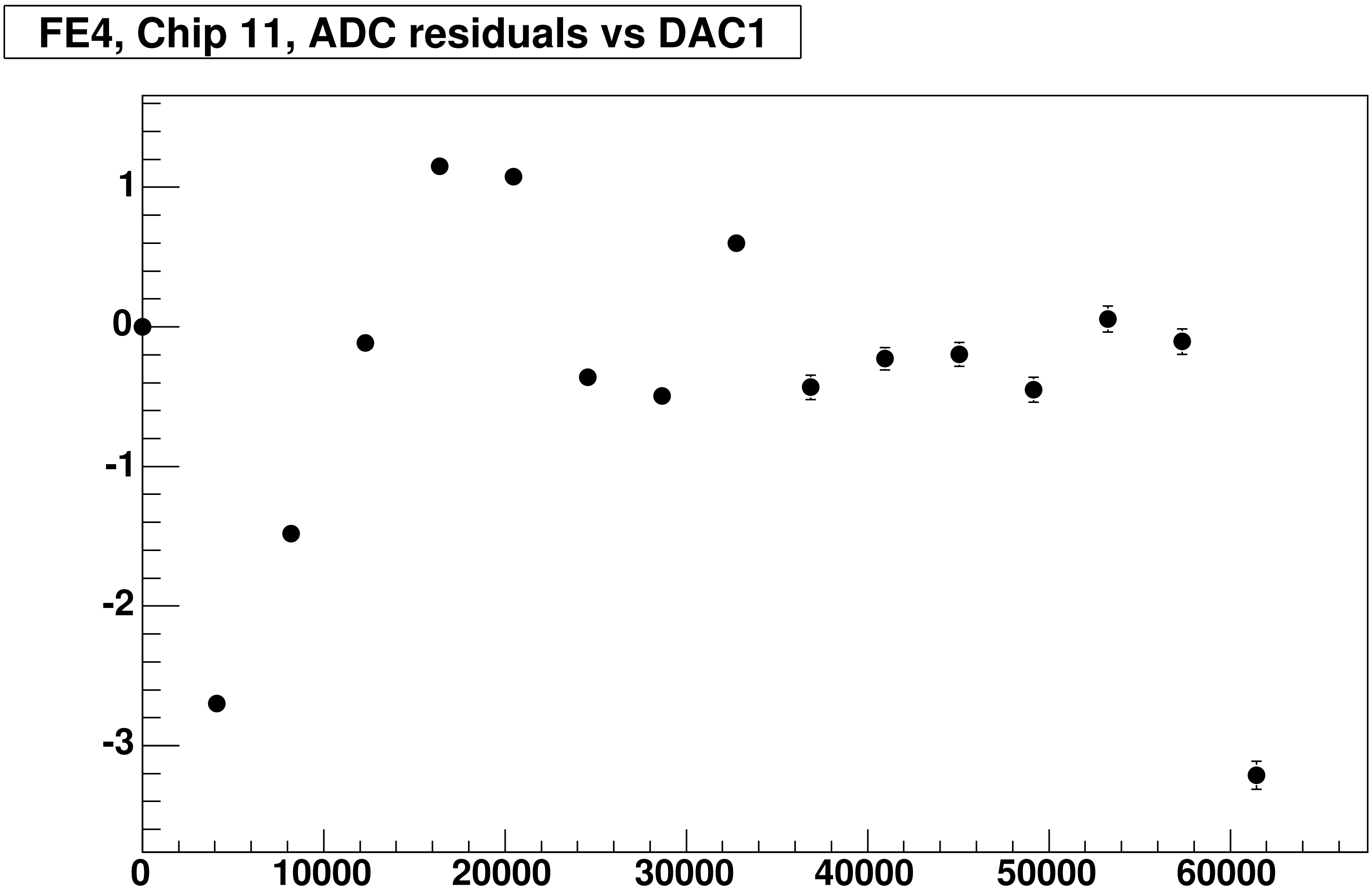

FE4, Chip 11, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

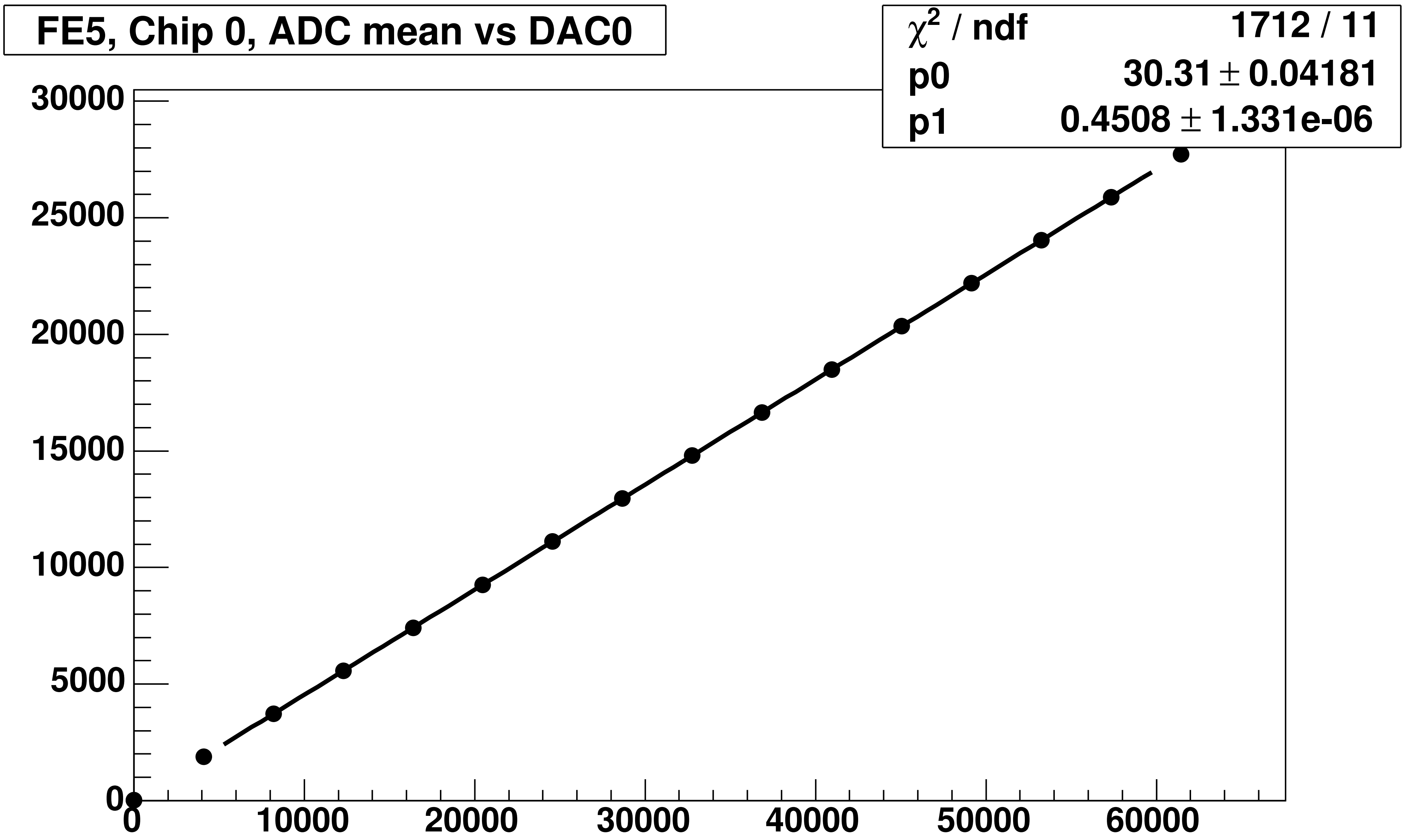

FE4, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

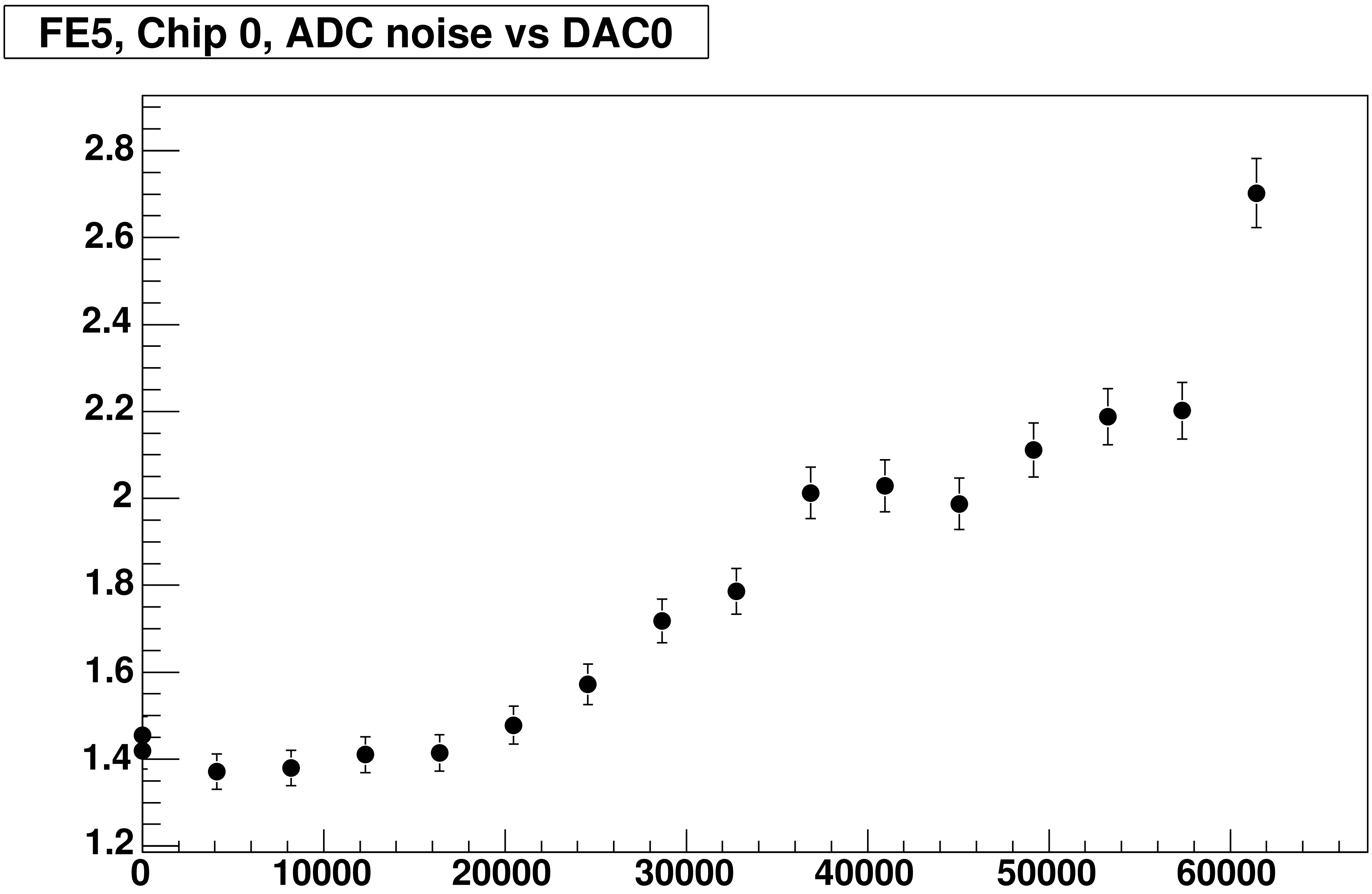

FE4, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1572 / 11
p0 25.48 ± 0.04213
p1 0.4498 ± 1.347e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

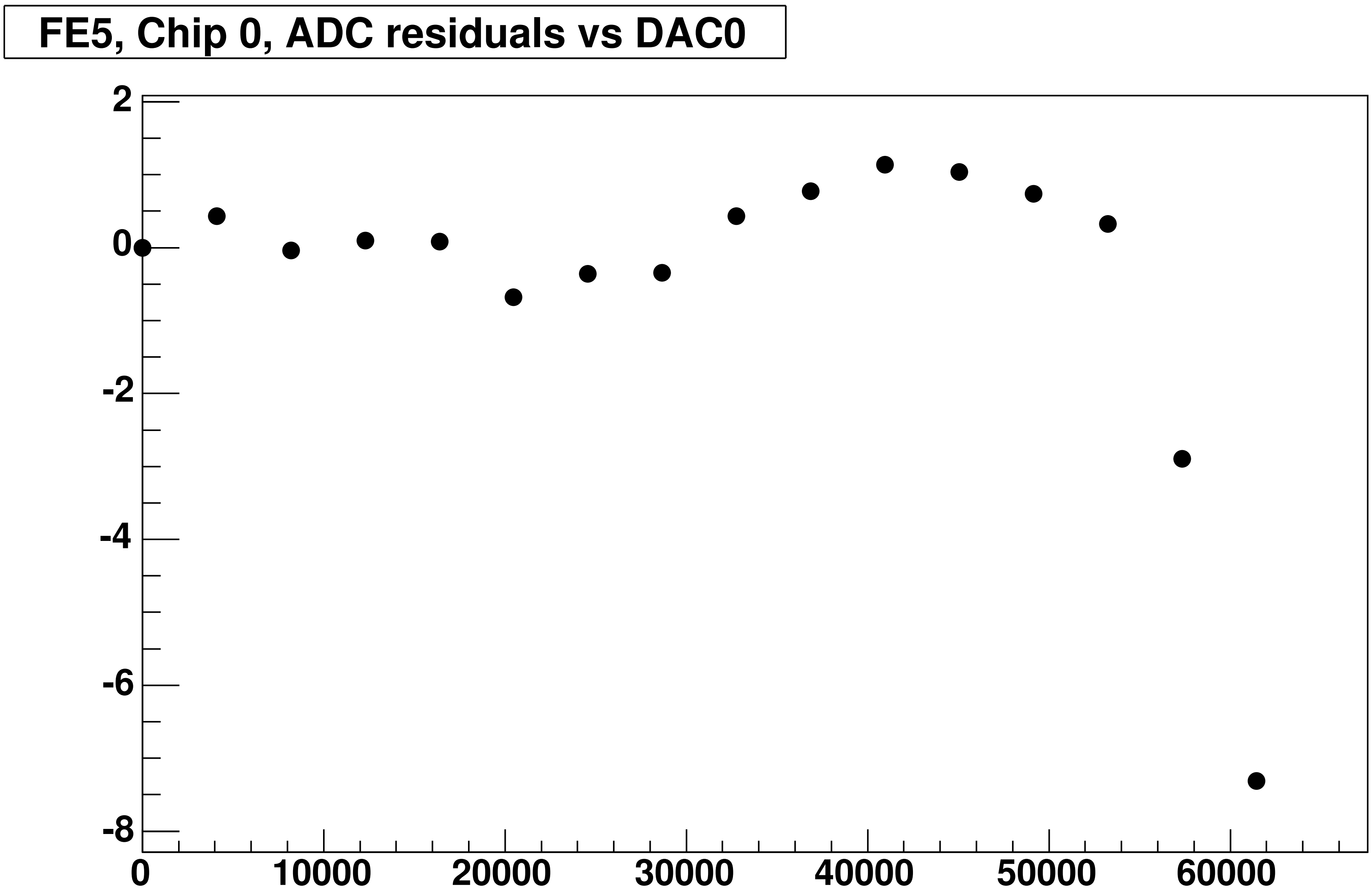


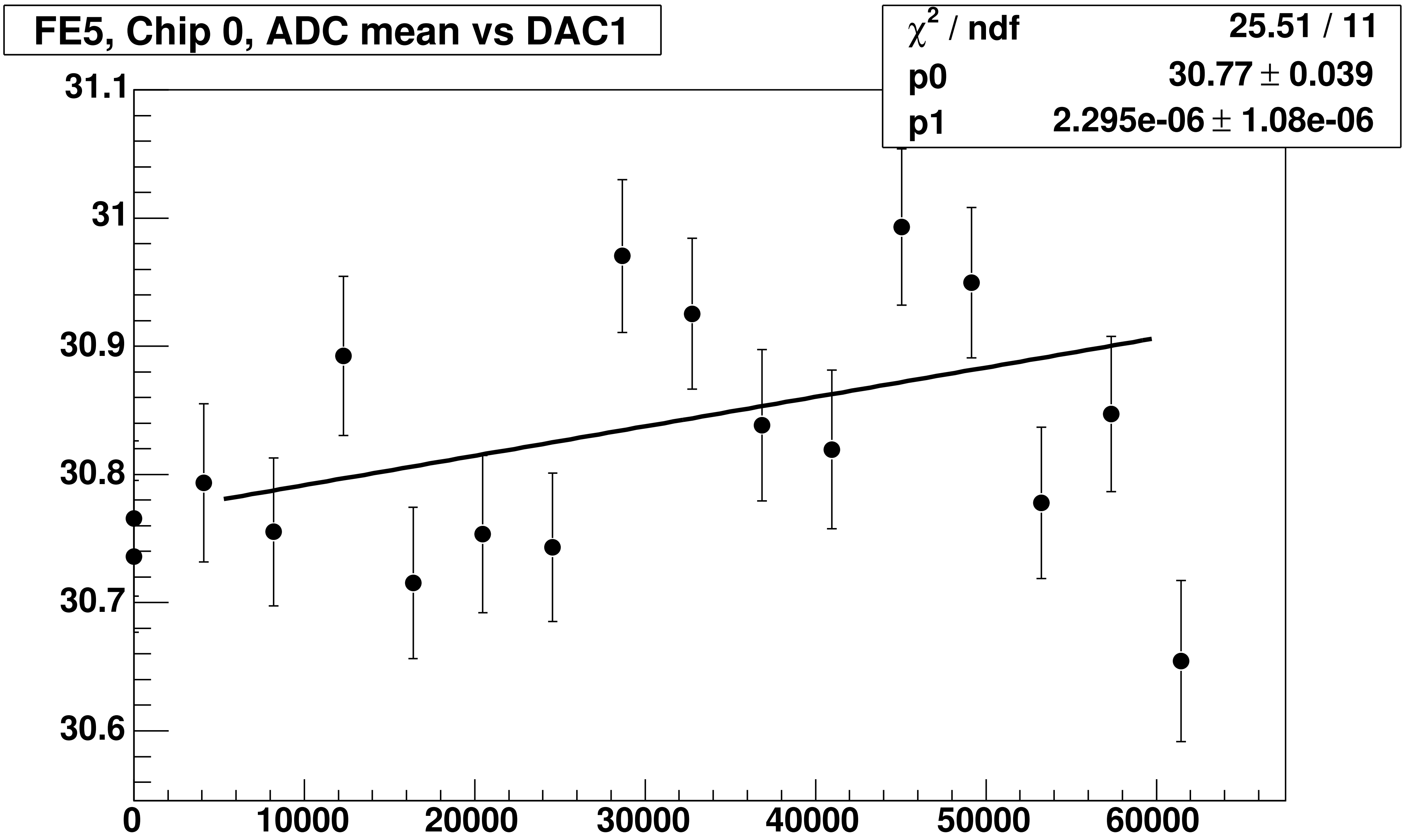
FE4, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

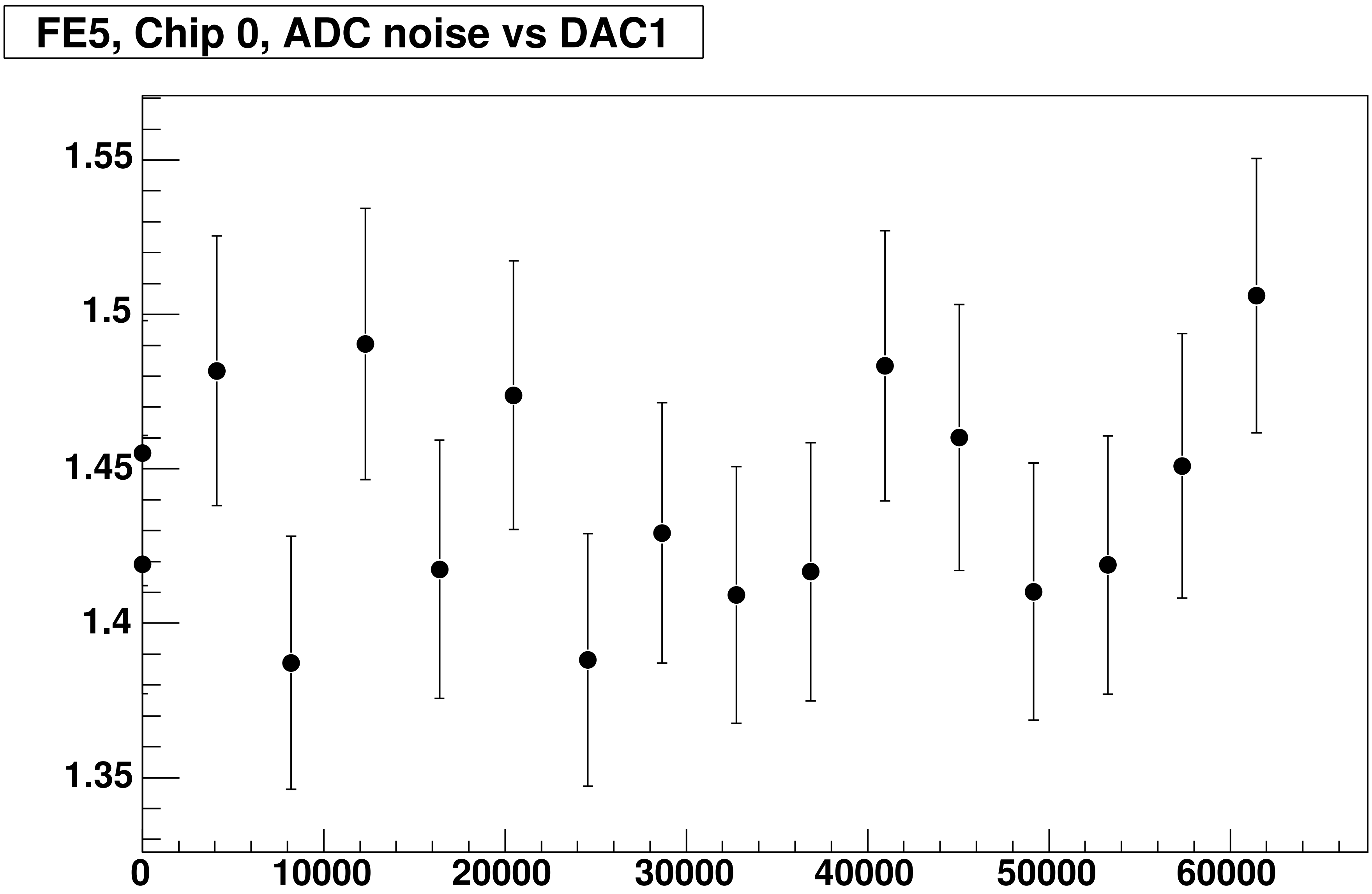

FE5, Chip 0, ADC mean vs DAC0
χ^2 / ndf 1712 / 11
p0 30.31 ± 0.04181
p1 0.4508 ± 1.331e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

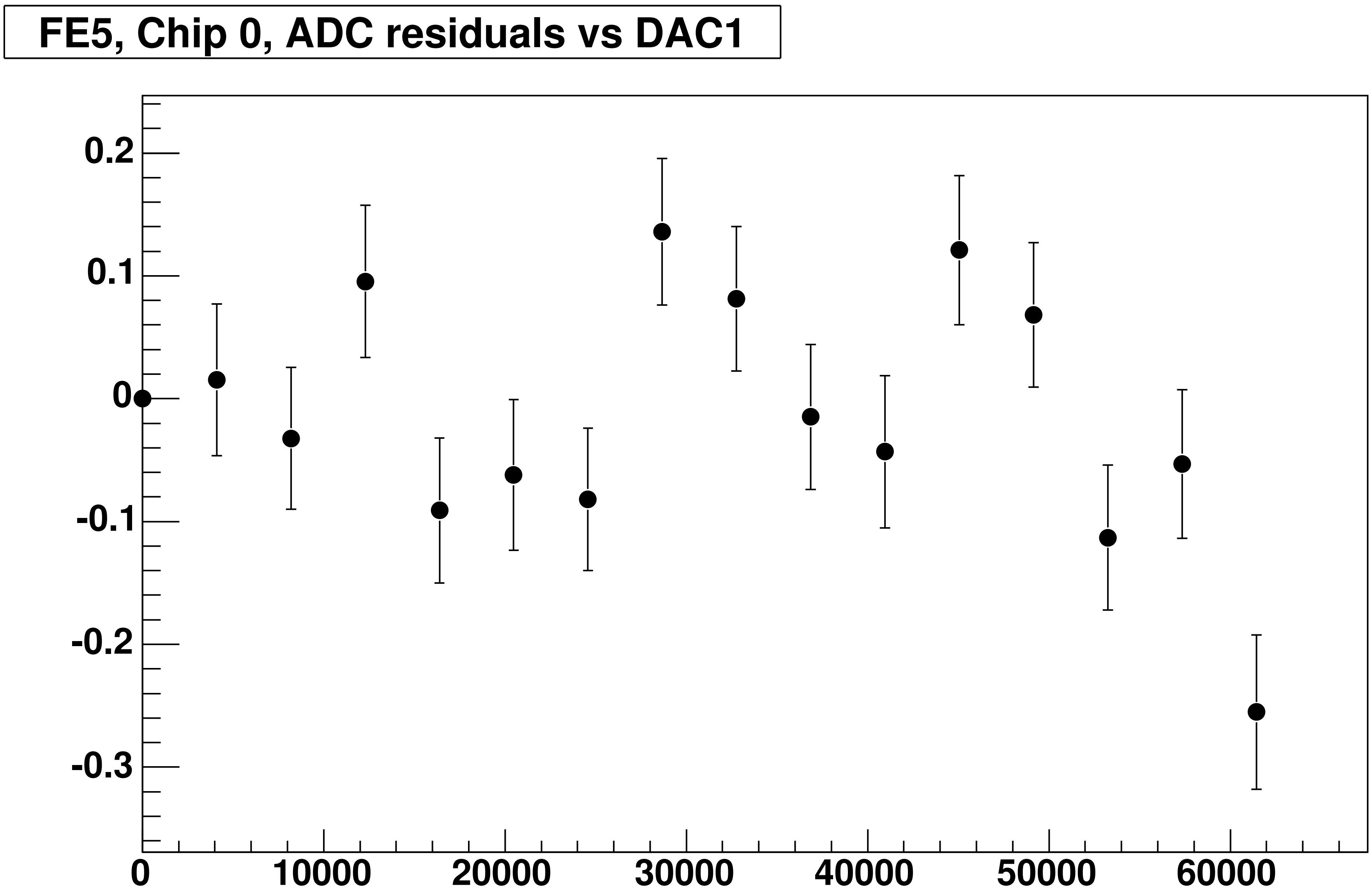

FE5, Chip 0, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

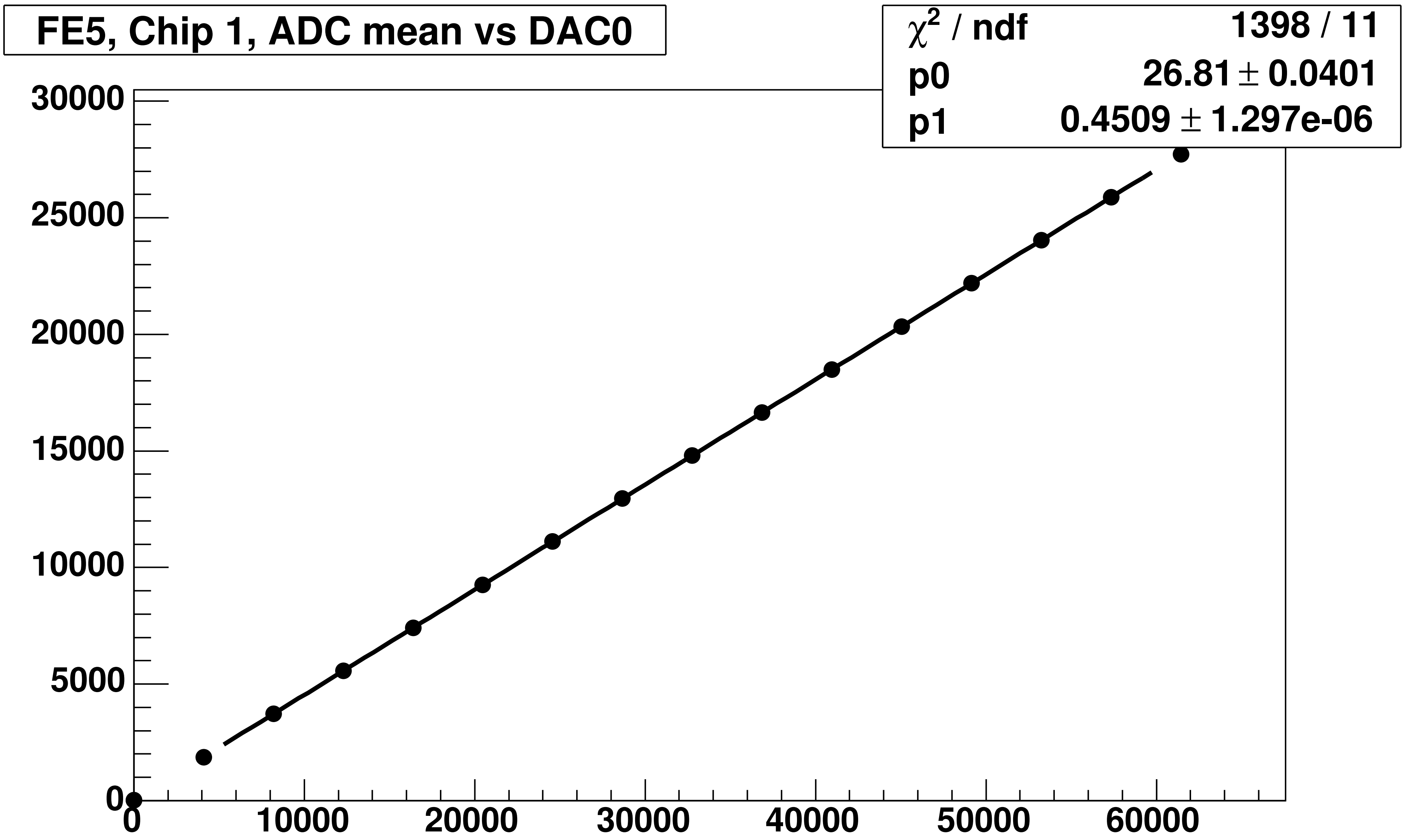

FE5, Chip 0, ADC residuals vs DAC0
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000



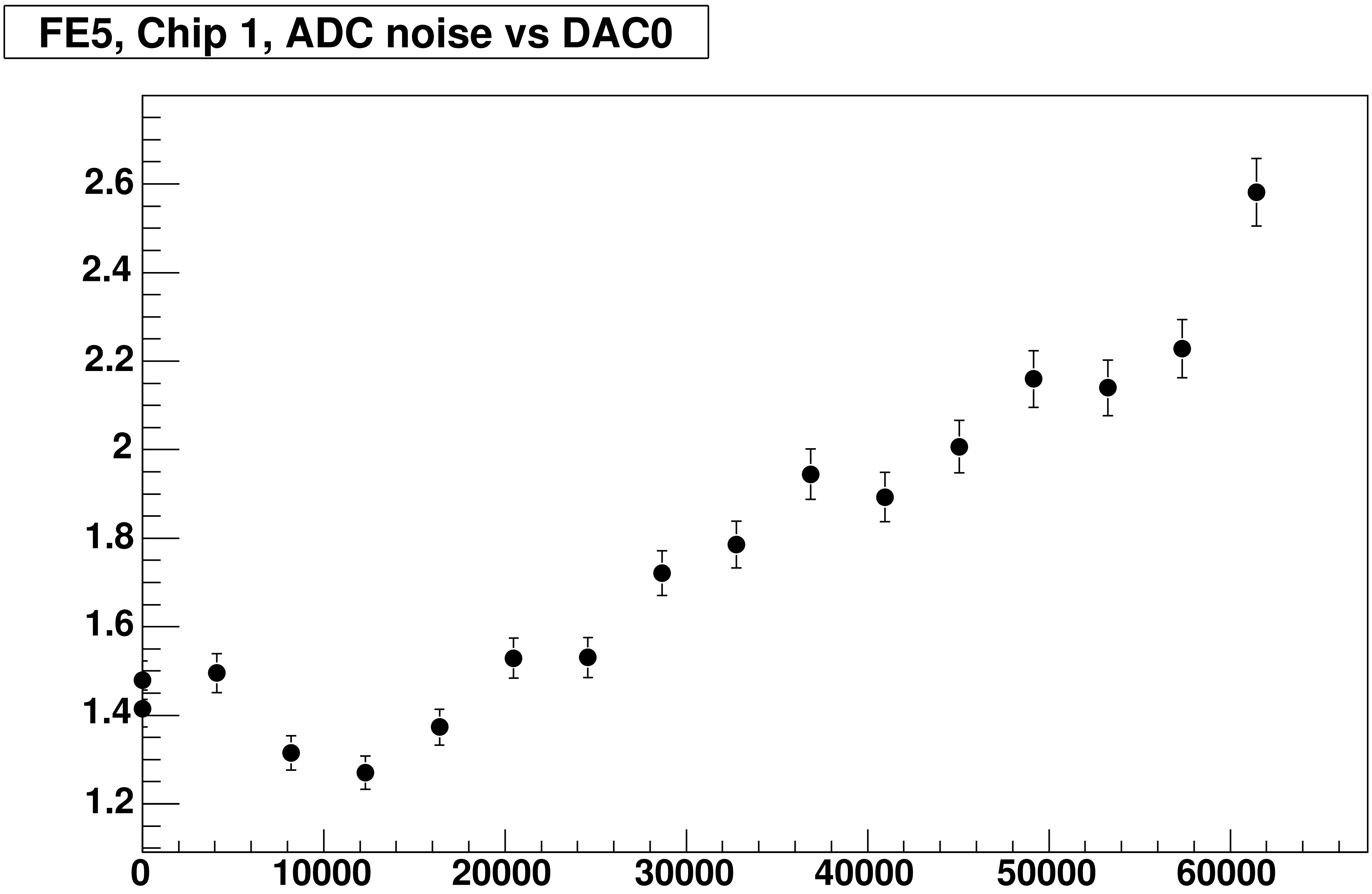
FE5, Chip 0, ADC mean vs DAC1
χ² / ndf 25.51 / 11
p0 30.77 ± 0.039
p1 2.295e-06 ± 1.08e-06
31.1
31
30.9
30.8
30.7
30.6
0
10000
20000
30000
40000
50000
60000


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

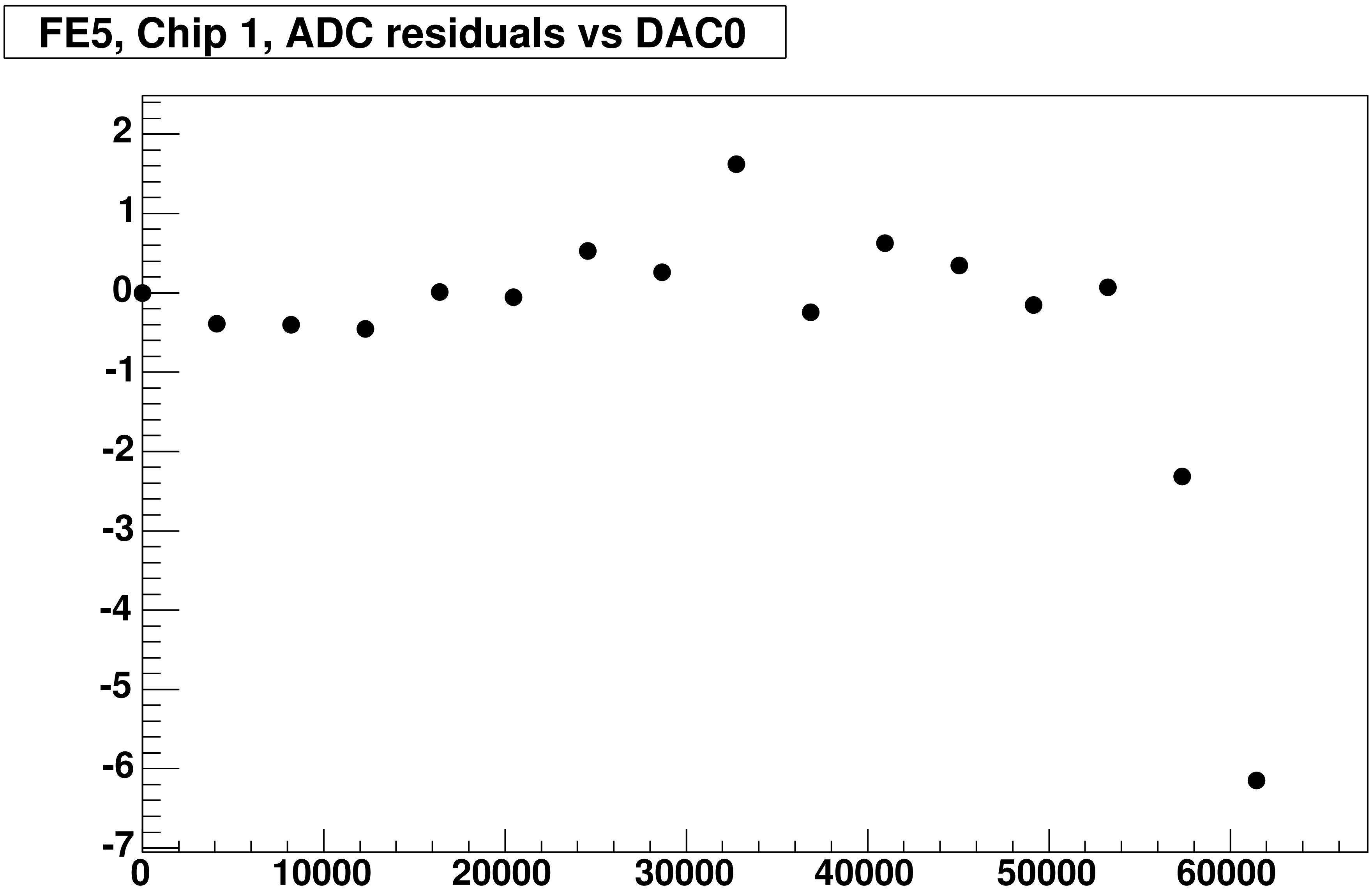

FE5, Chip 0, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

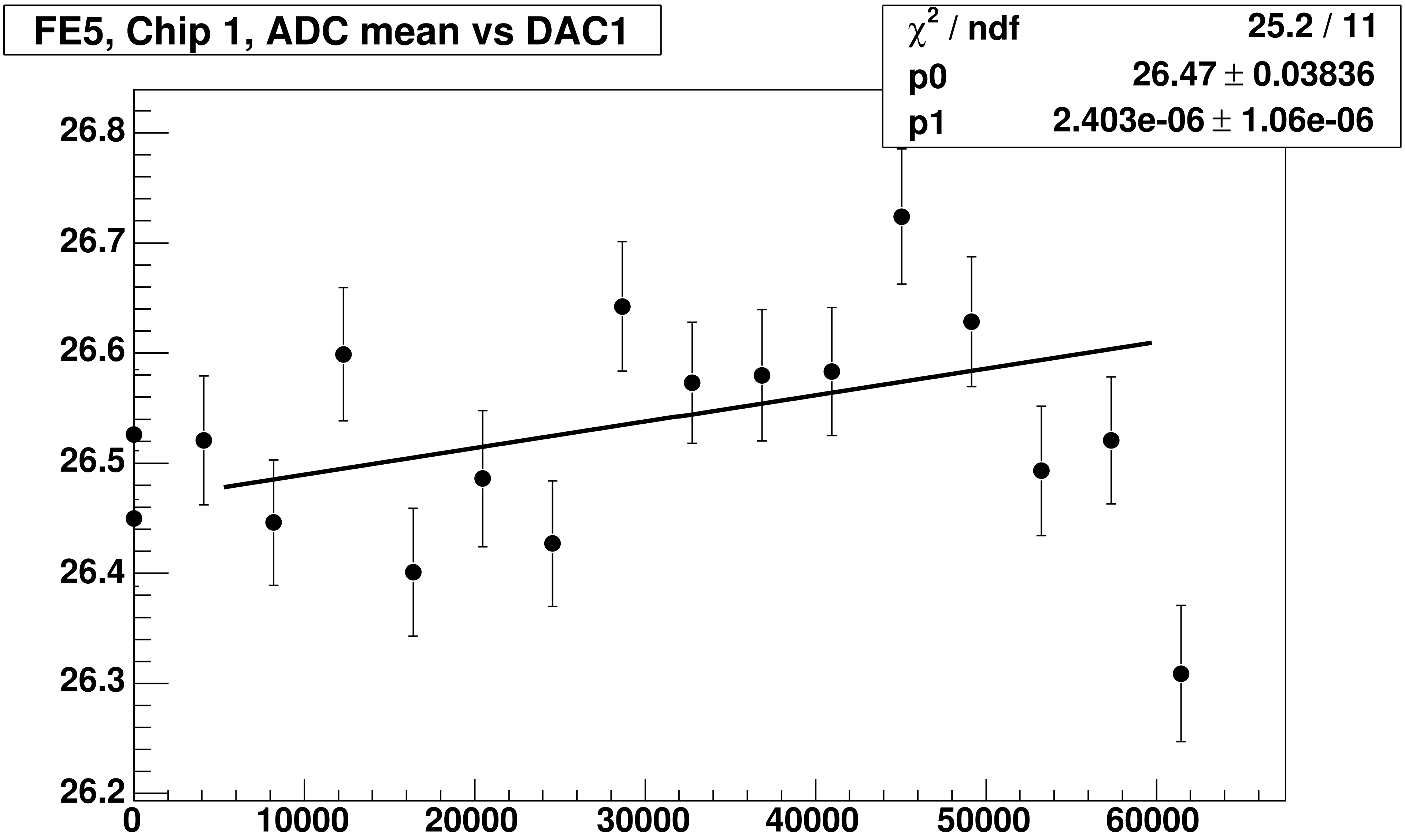


FE5, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1398 / 11
p0 26.81 ± 0.0401
p1 0.4509 ± 1.297e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

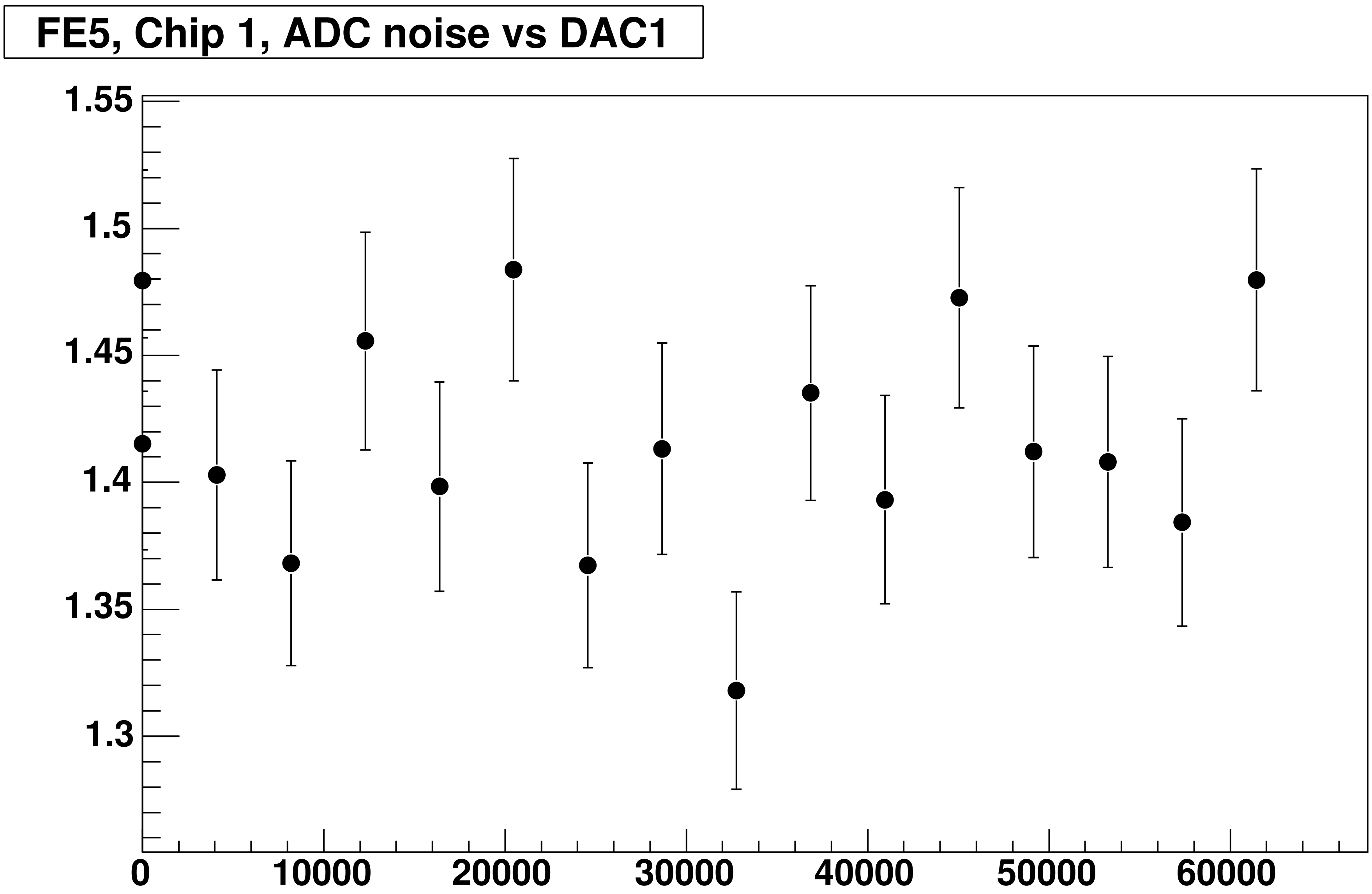


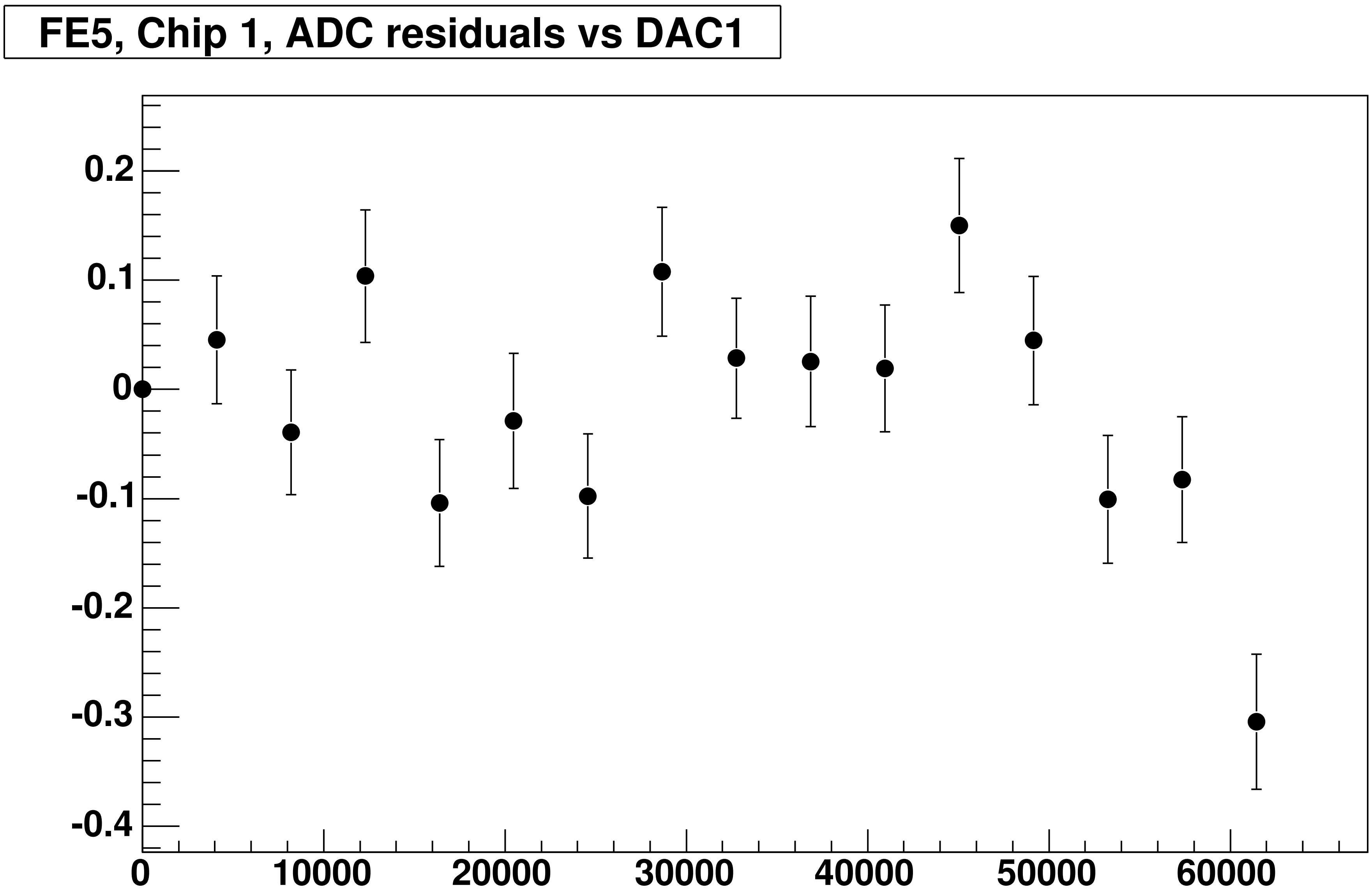
FE5, Chip 1, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE5, Chip 1, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

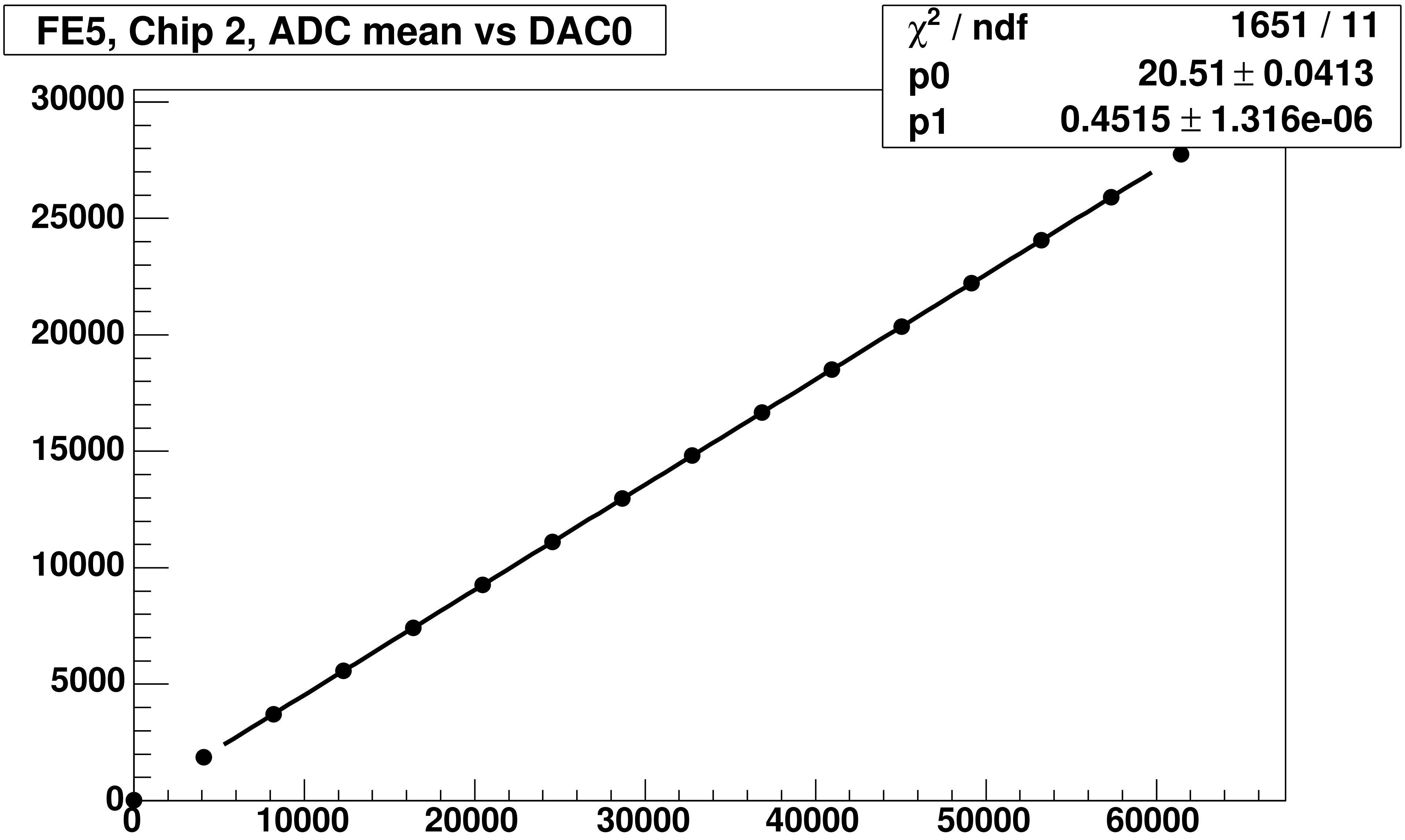


FE5, Chip 1, ADC mean vs DAC1
χ^2 / ndf 25.2 / 11
p0 26.47 ± 0.03836
p1 2.403e-06 ± 1.06e-06
26.8
26.7
26.6
26.5
26.4
26.3
26.2
0
10000
20000
30000
40000
50000
60000

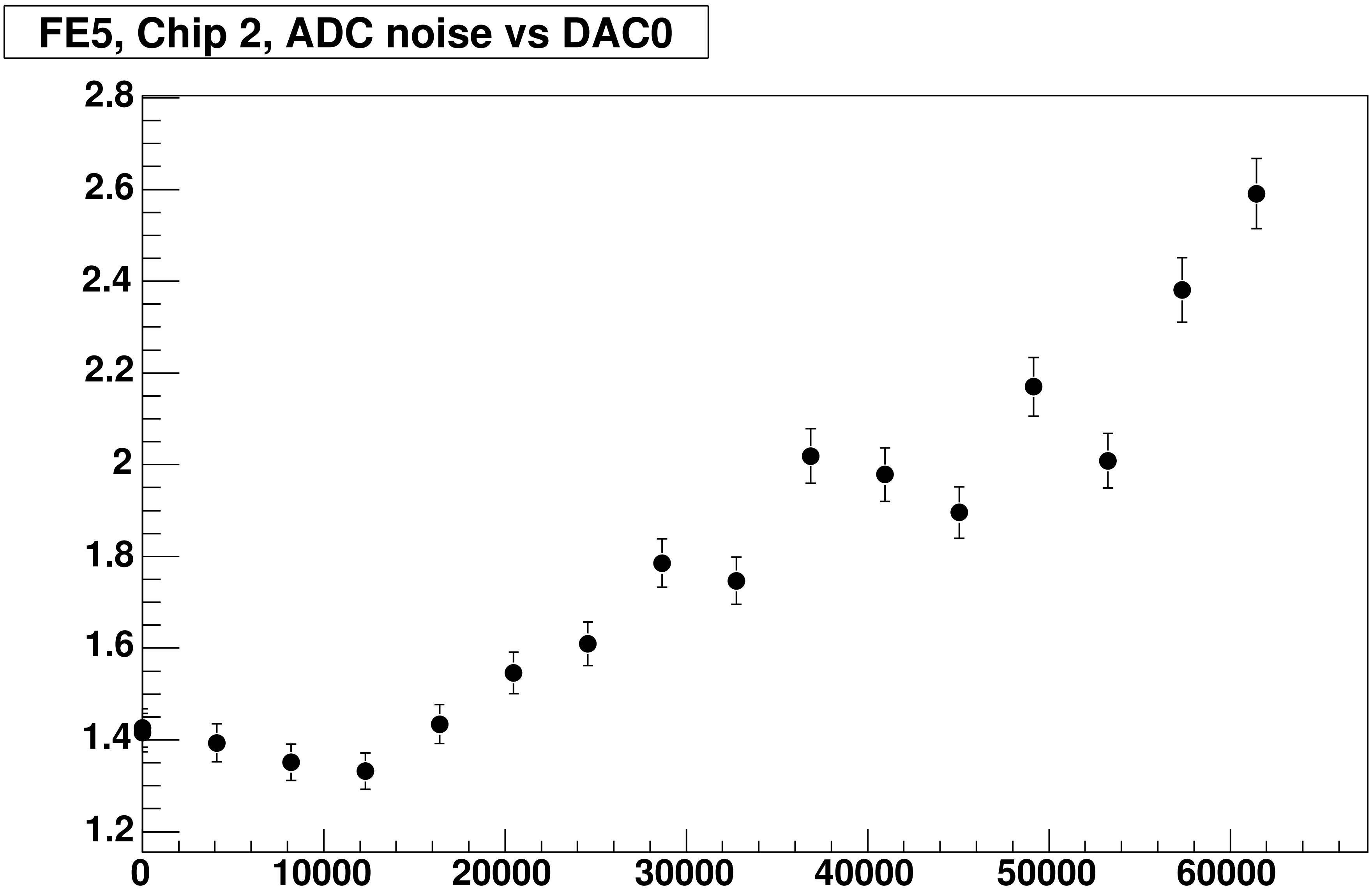

FE5, Chip 1, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

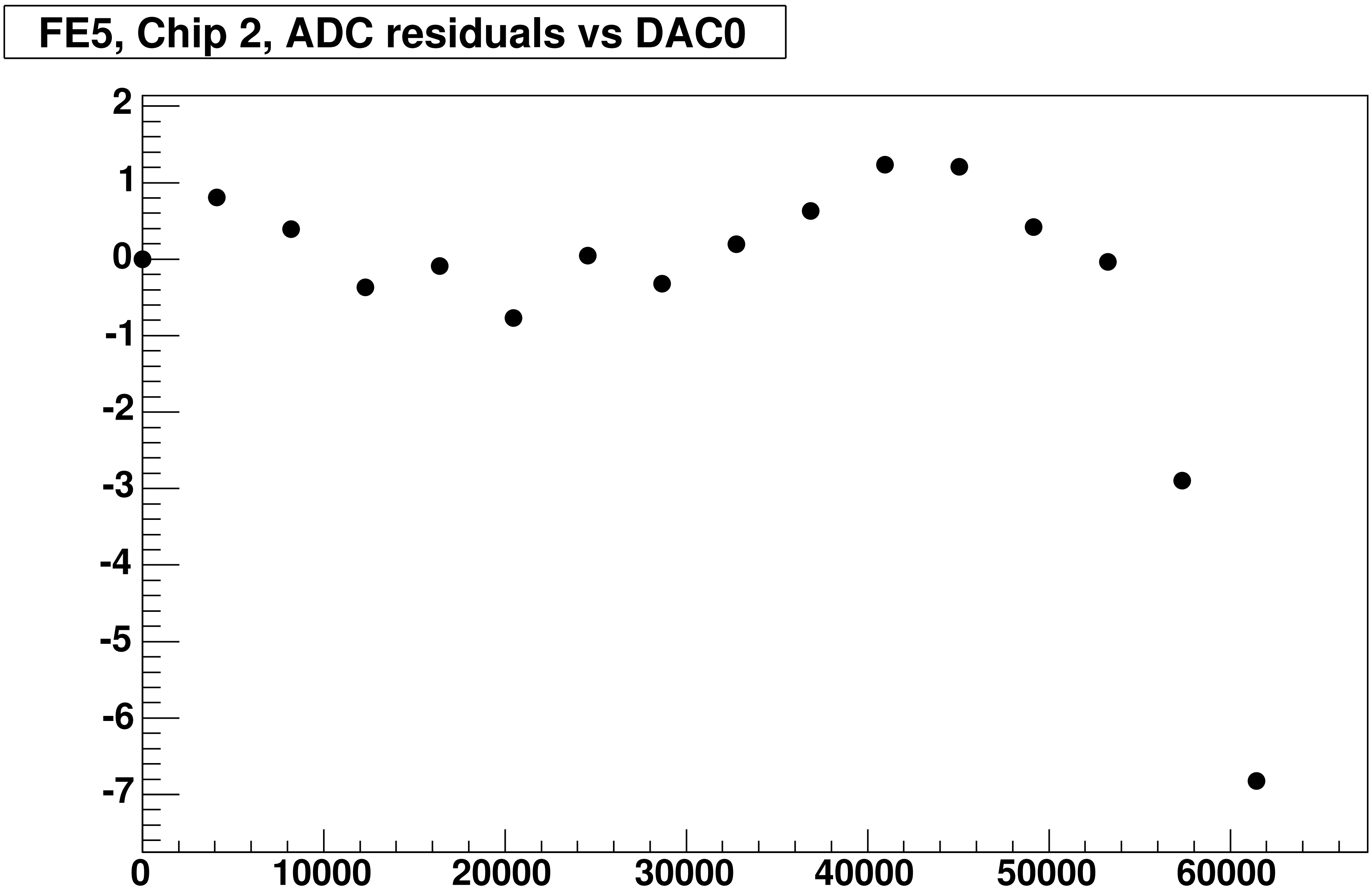


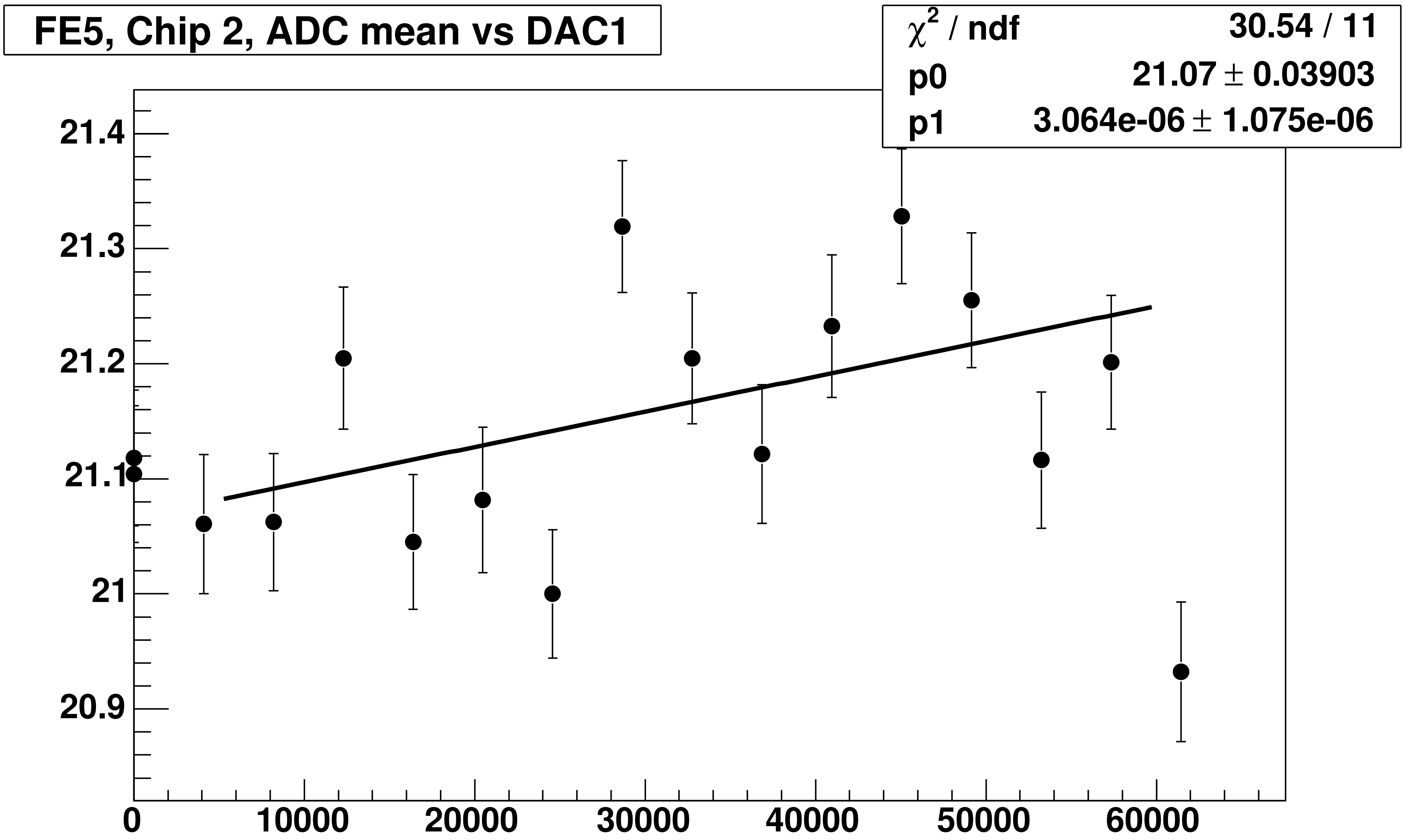
FE5, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

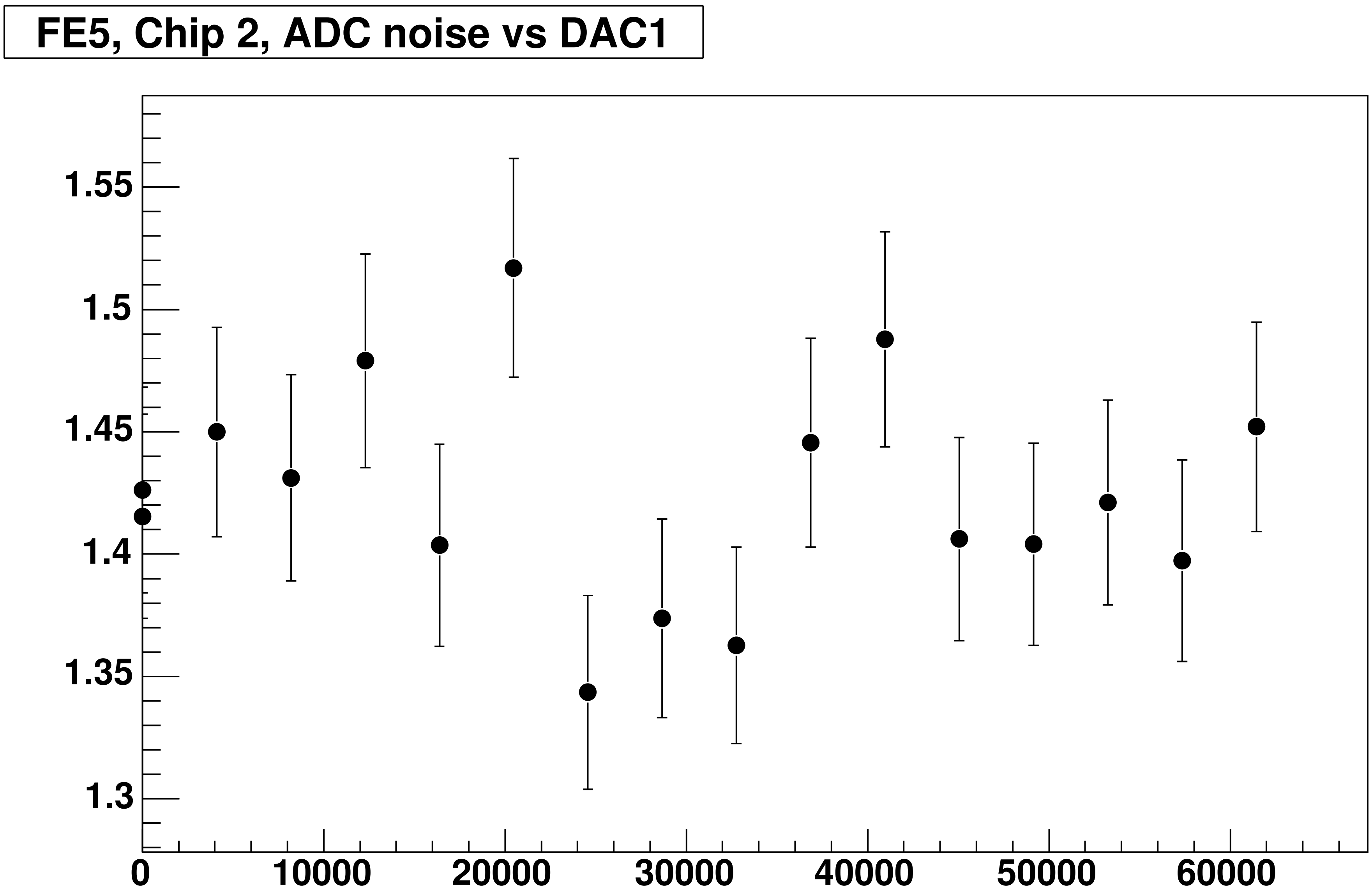


FE5, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1651 / 11
p0 20.51 ± 0.0413
p1 0.4515 ± 1.316e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

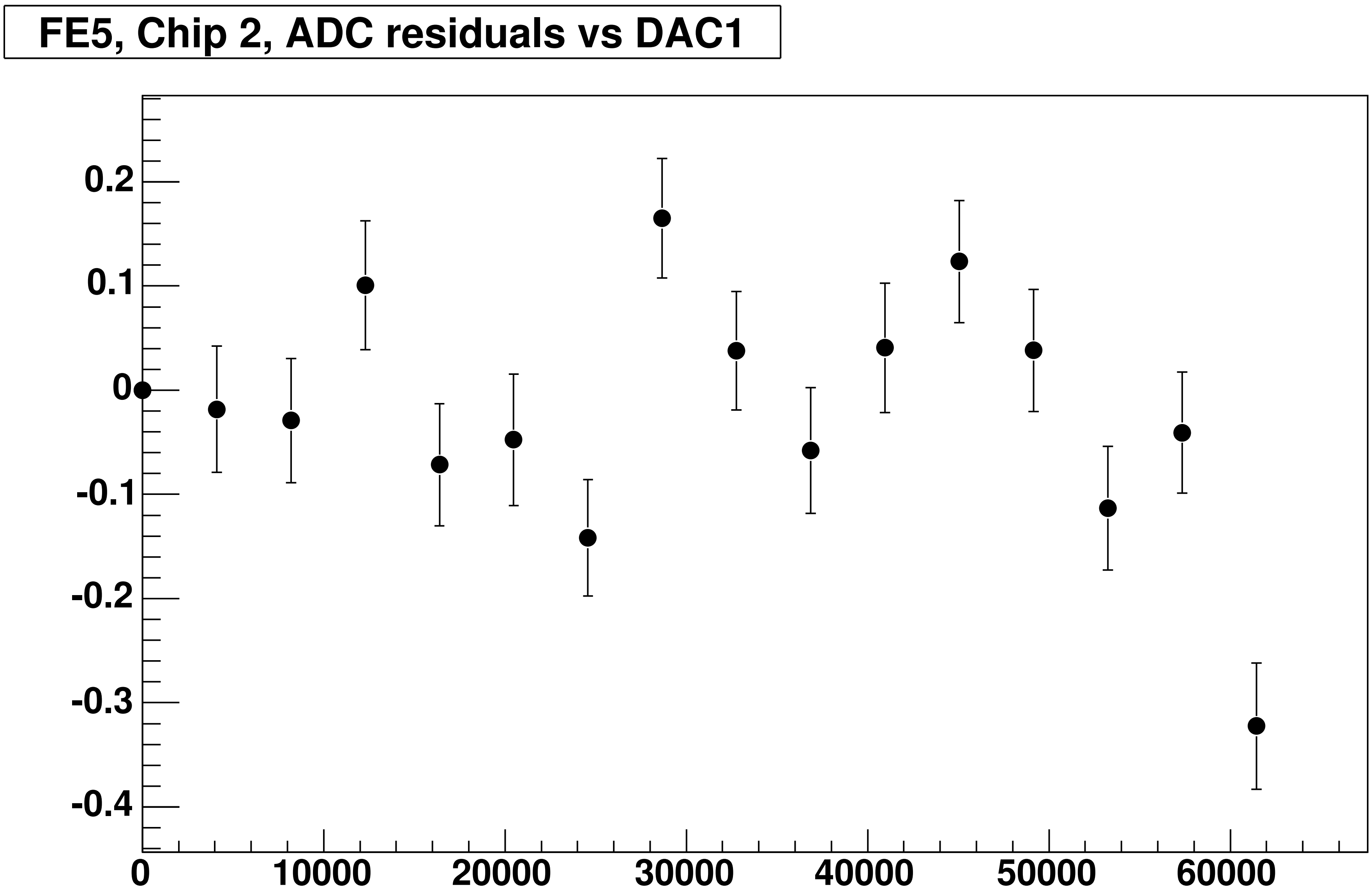

FE5, Chip 2, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

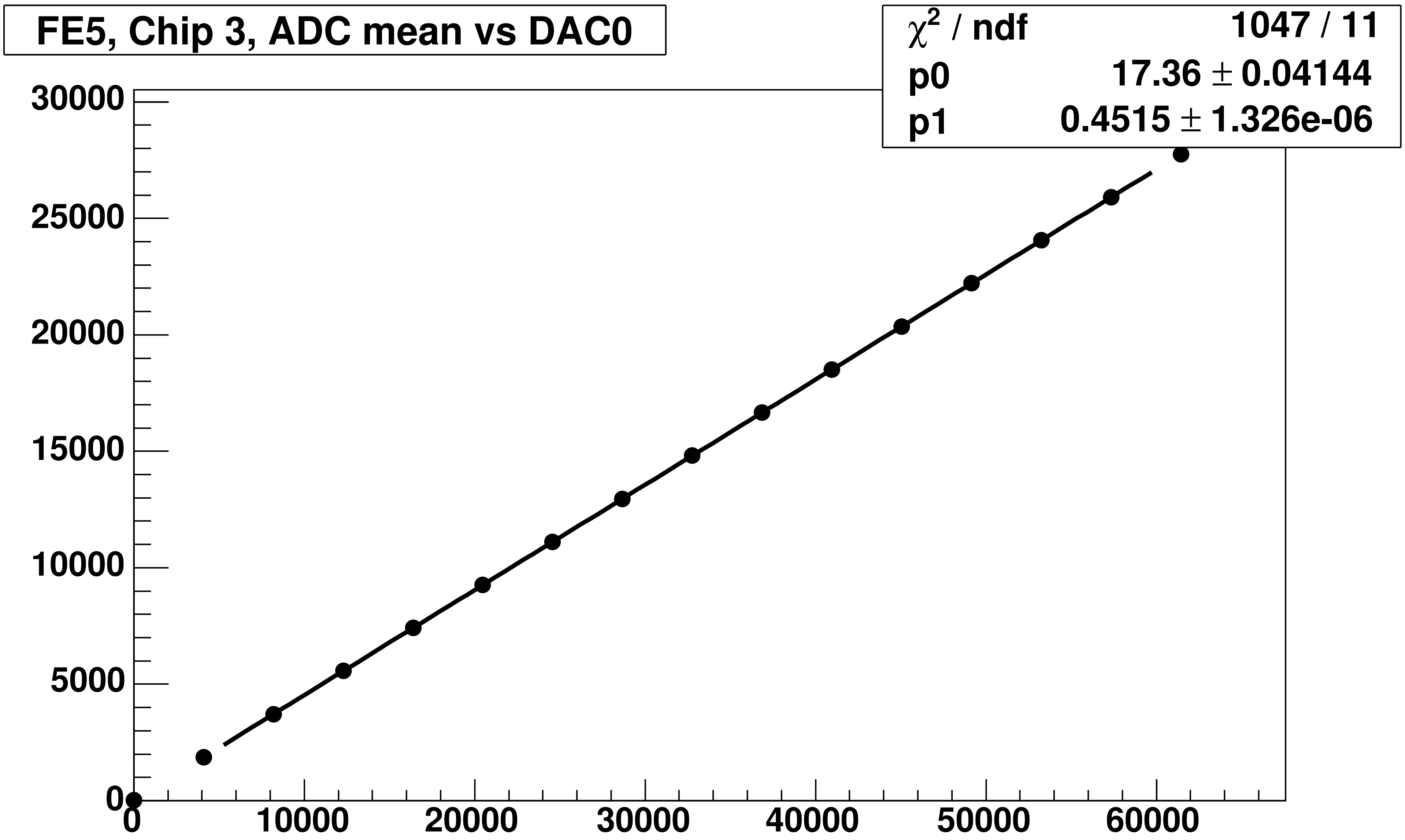

FE5, Chip 2, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

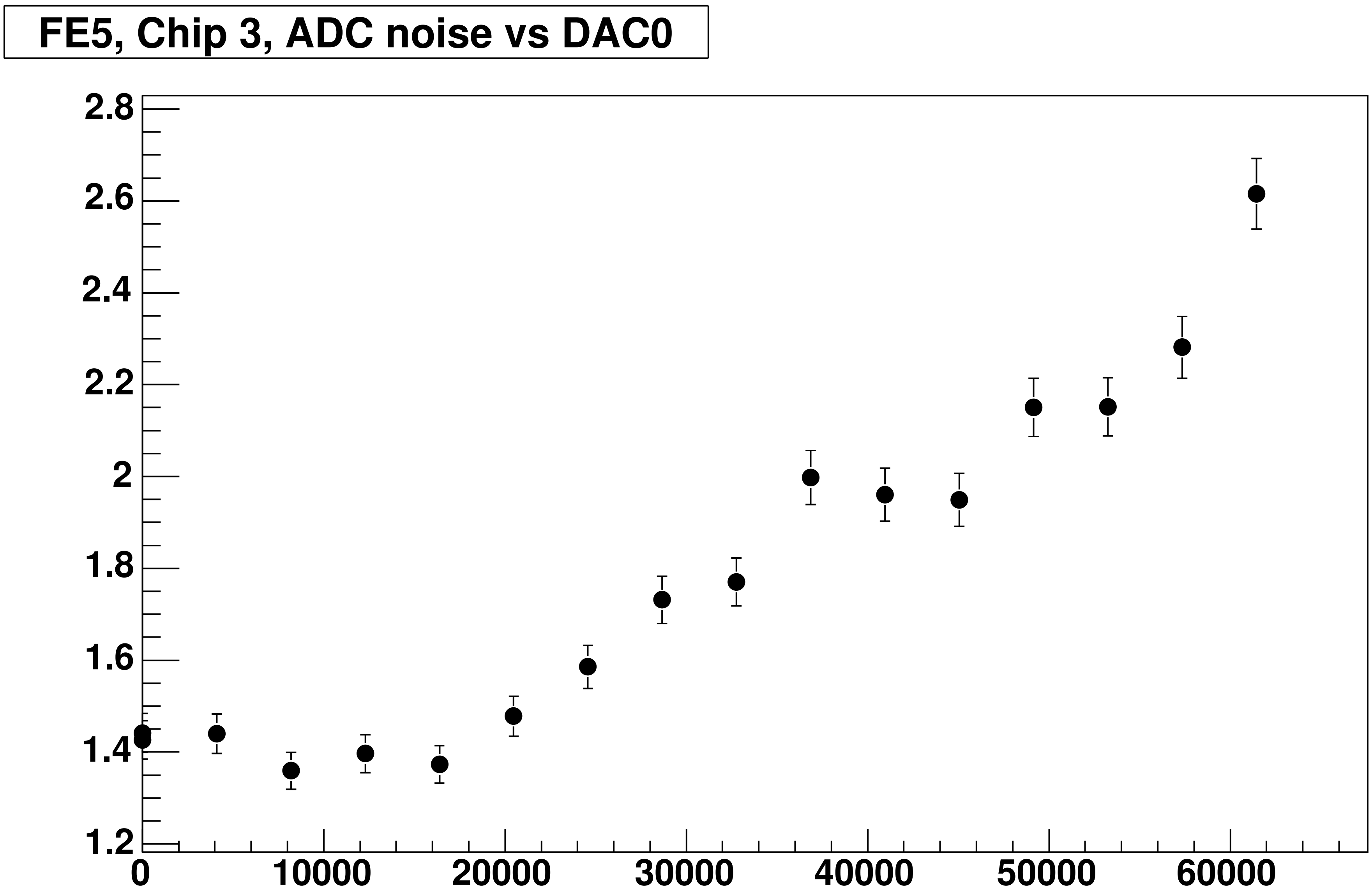

FE5, Chip 2, ADC mean vs DAC1
χ^2 / ndf 30.54 / 11
p0 21.07 ± 0.03903
p1 3.064e-06 ± 1.075e-06
21.4
21.3
21.2
21.1
21
20.9
0
10000
20000
30000
40000
50000
60000

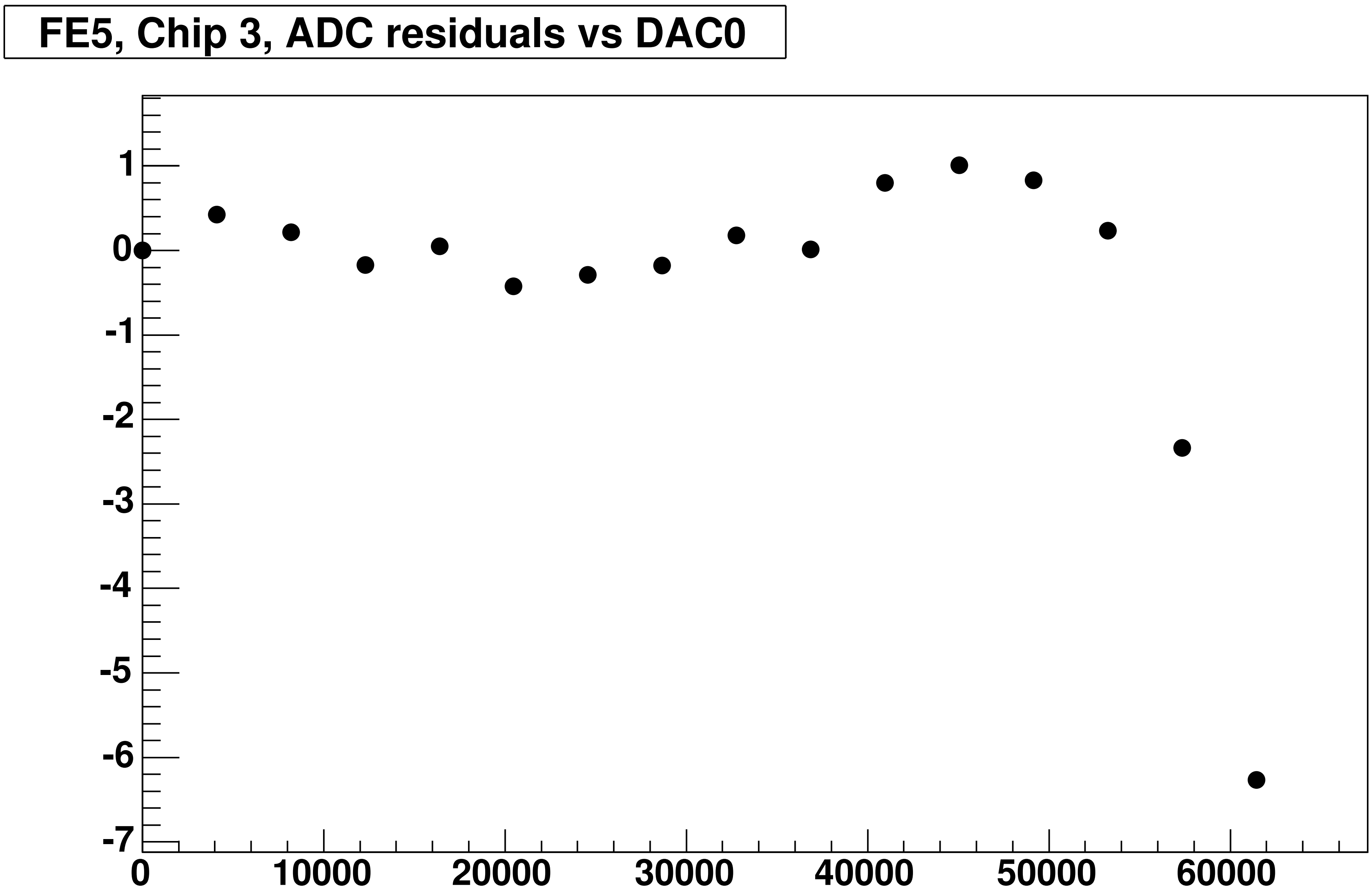


FE5, Chip 2, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

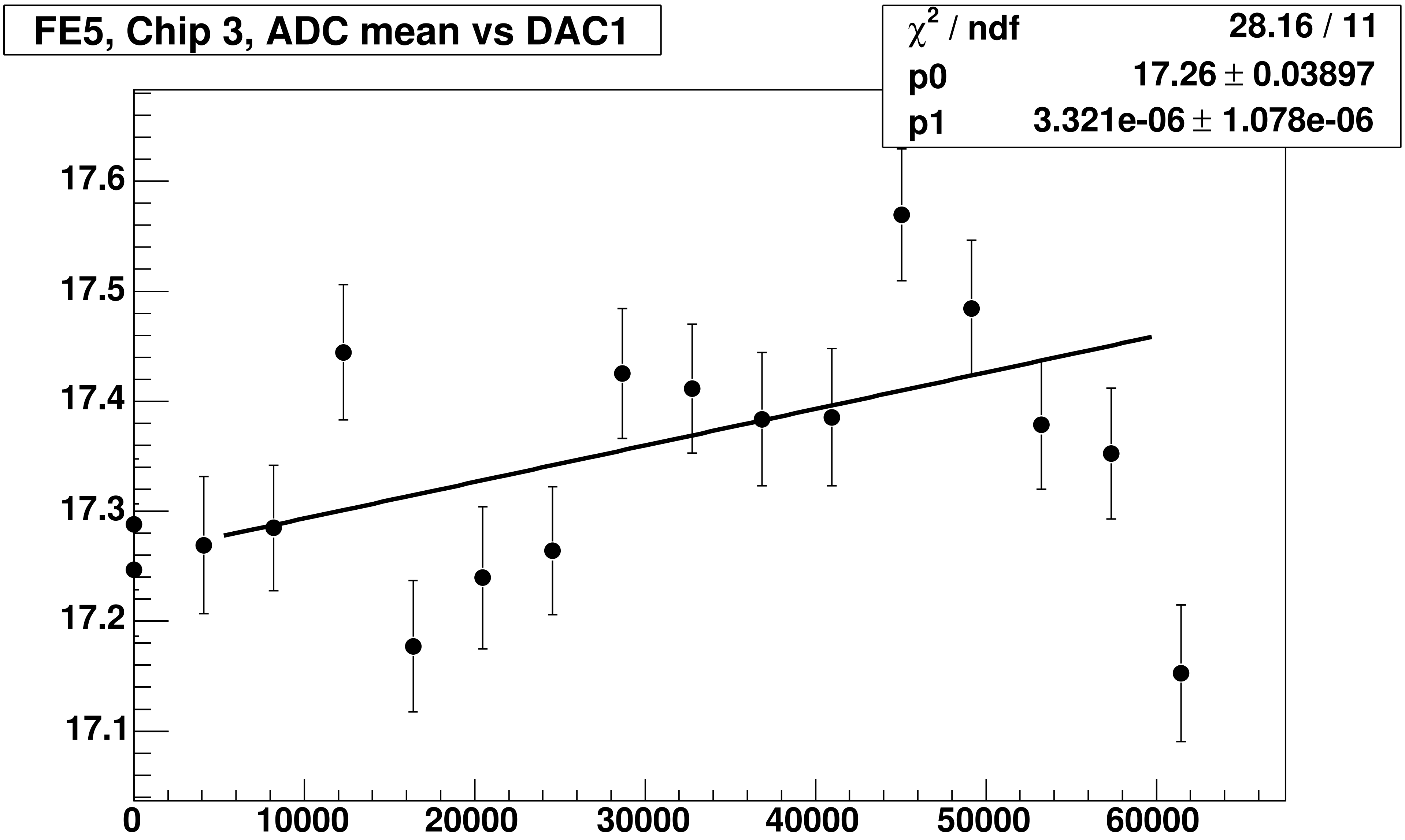

FE5, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000


FE5, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1047 / 11
p0 17.36 ± 0.04144
p1 0.4515 ± 1.326e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

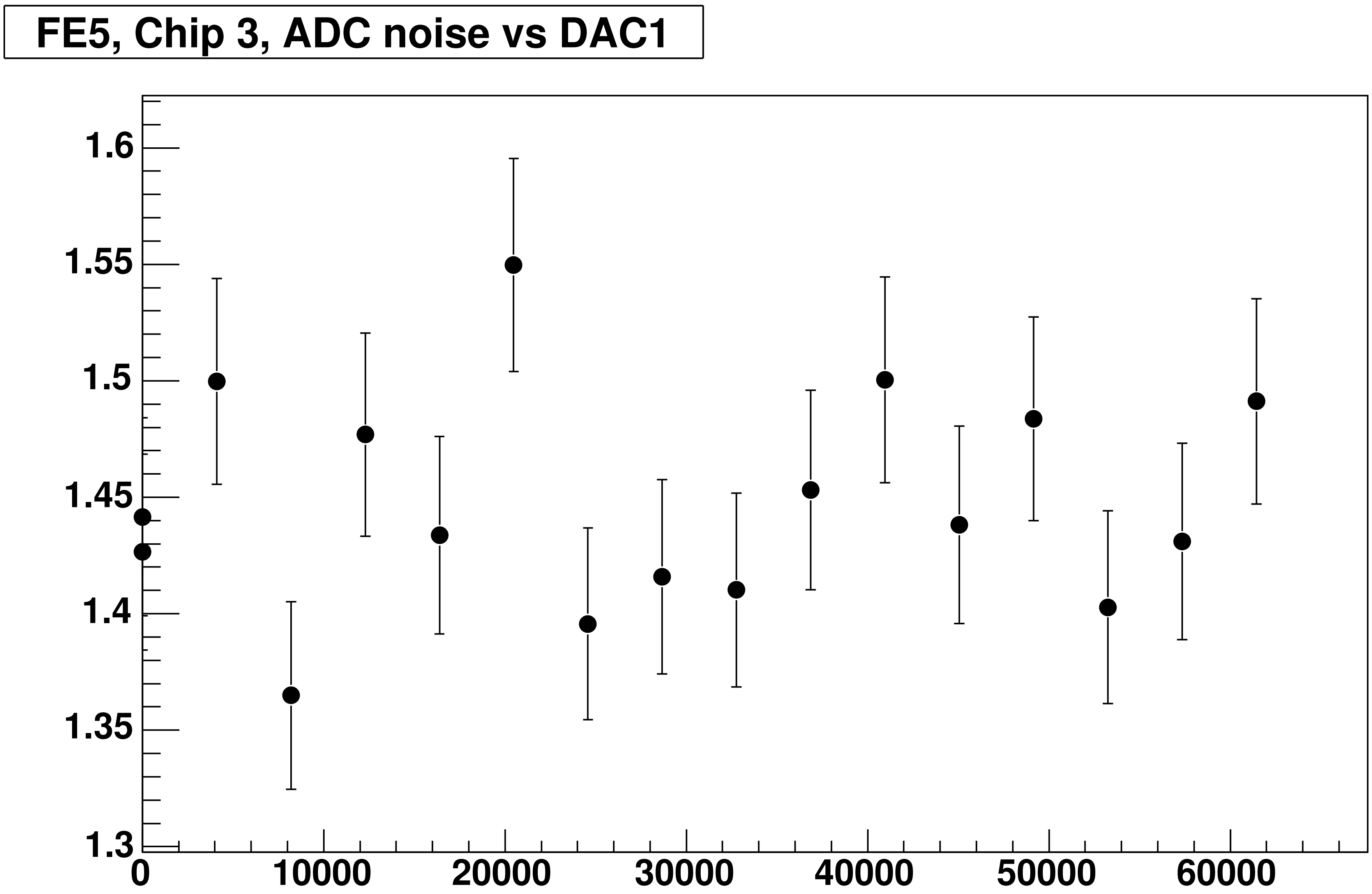

FE5, Chip 3, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

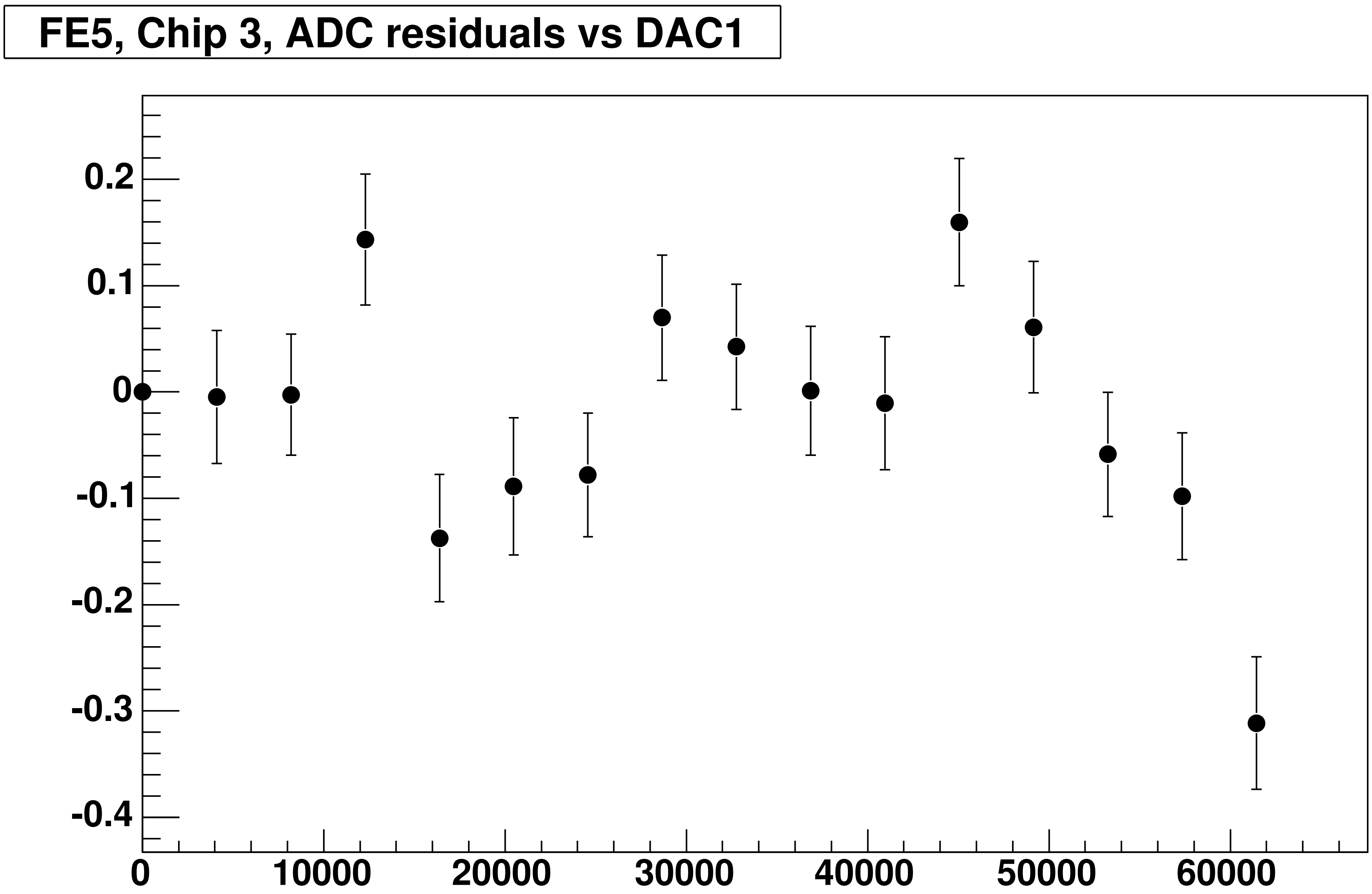


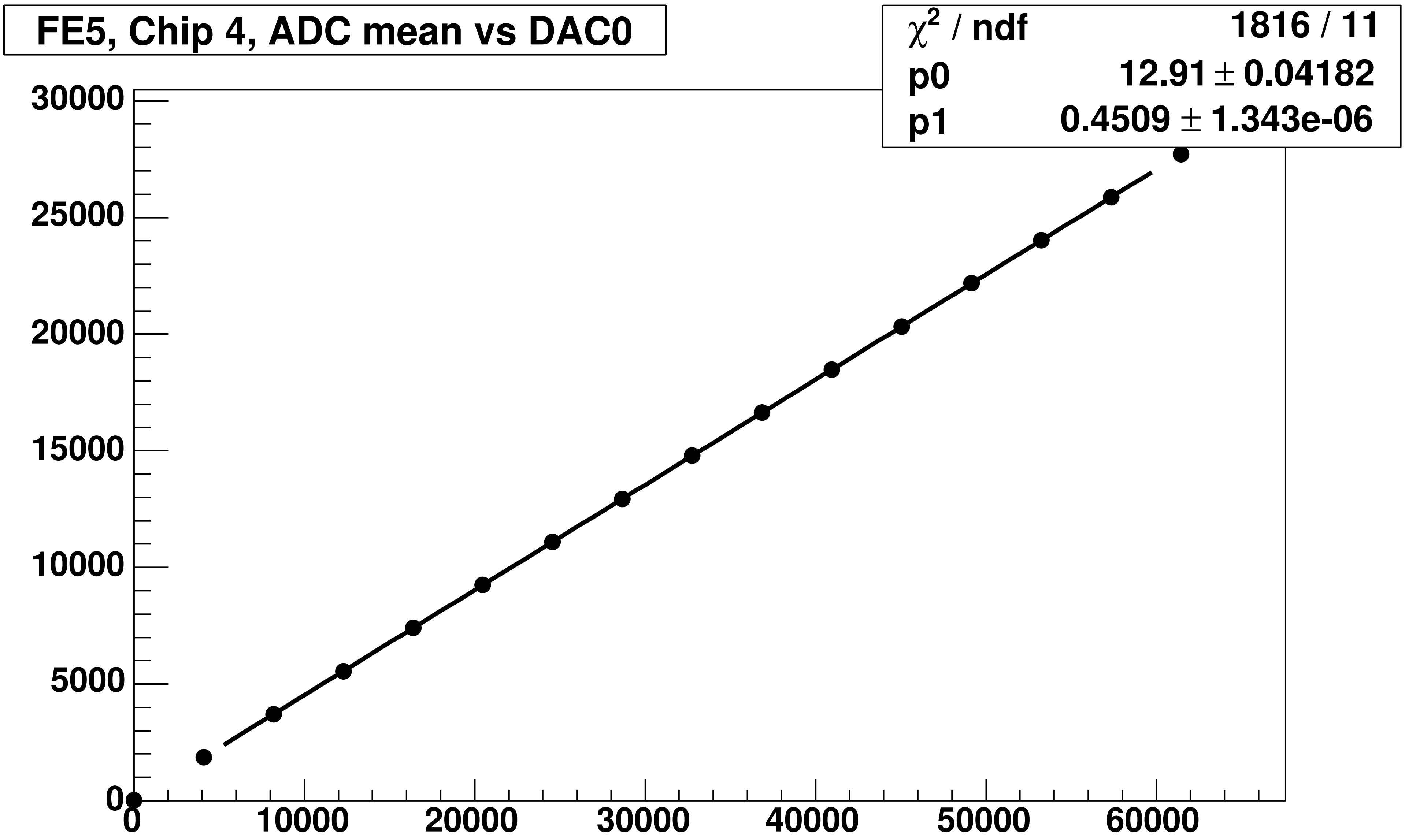
FE5, Chip 3, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

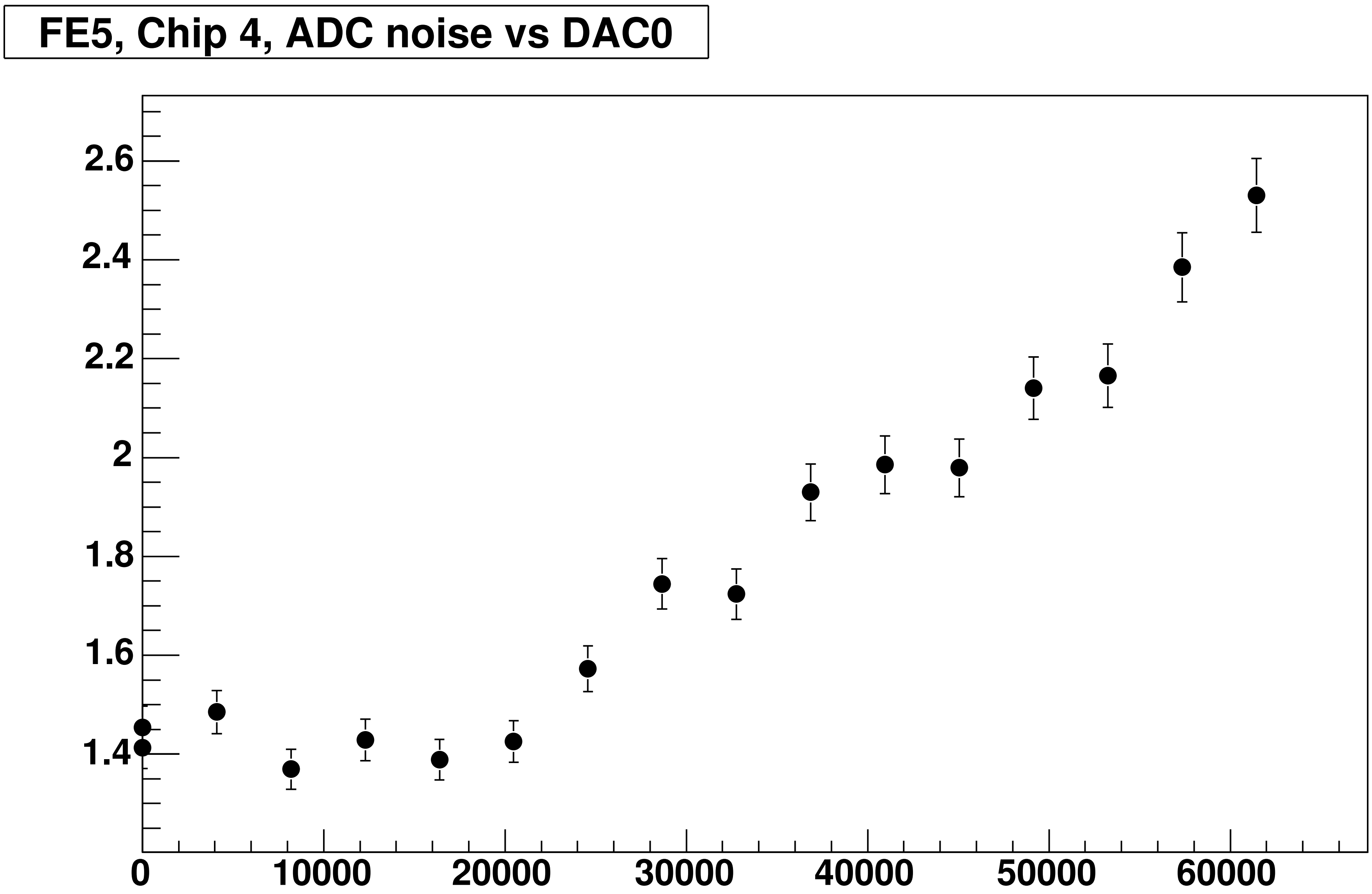


FE5, Chip 3, ADC mean vs DAC1
χ^2 / ndf 28.16 / 11
p0 17.26 ± 0.03897
p1 3.321e-06 ± 1.078e-06
17.1
17.2
17.3
17.4
17.5
17.6
0
10000
20000
30000
40000
50000
60000

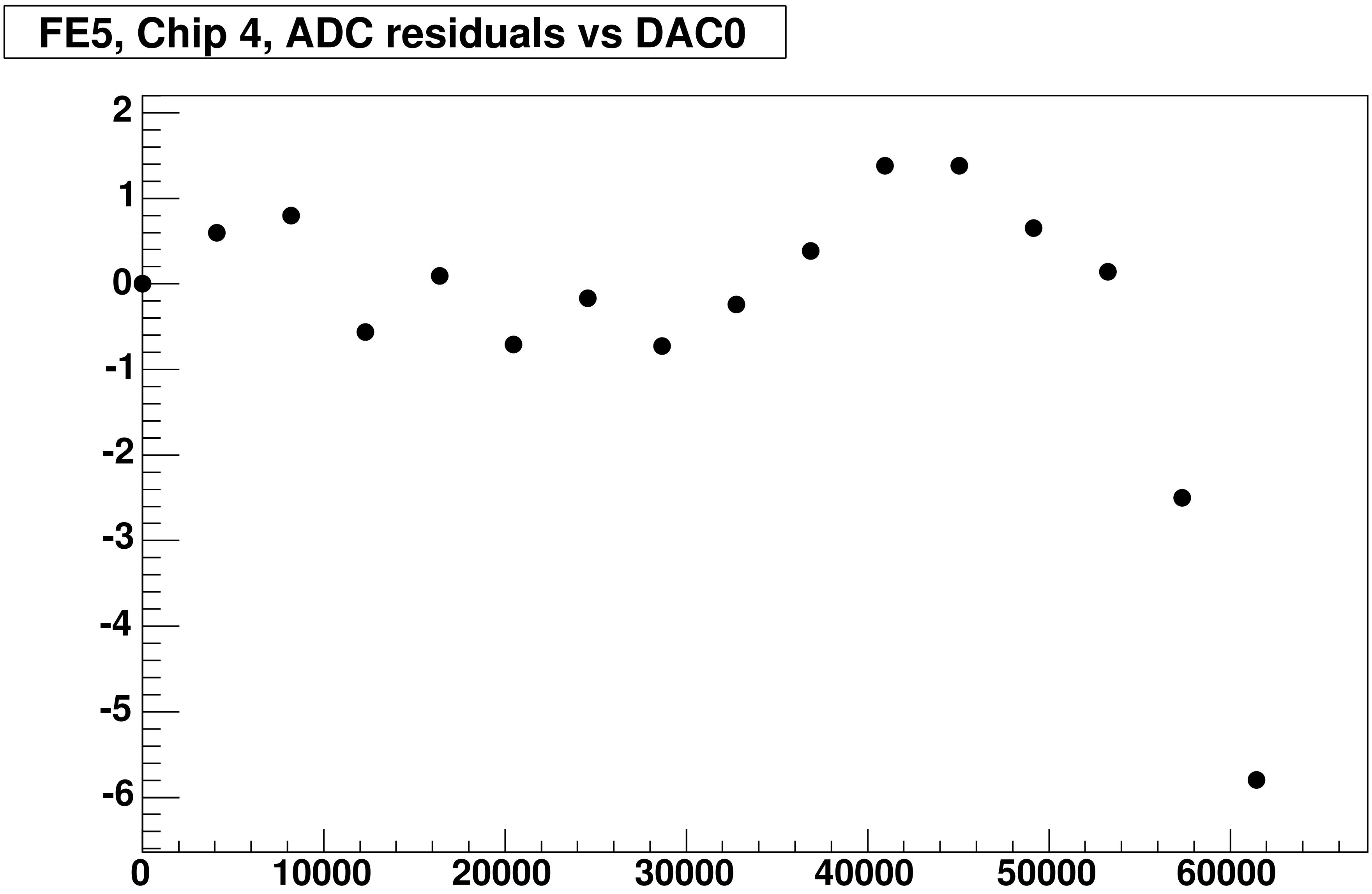

FE5, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


FE5, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

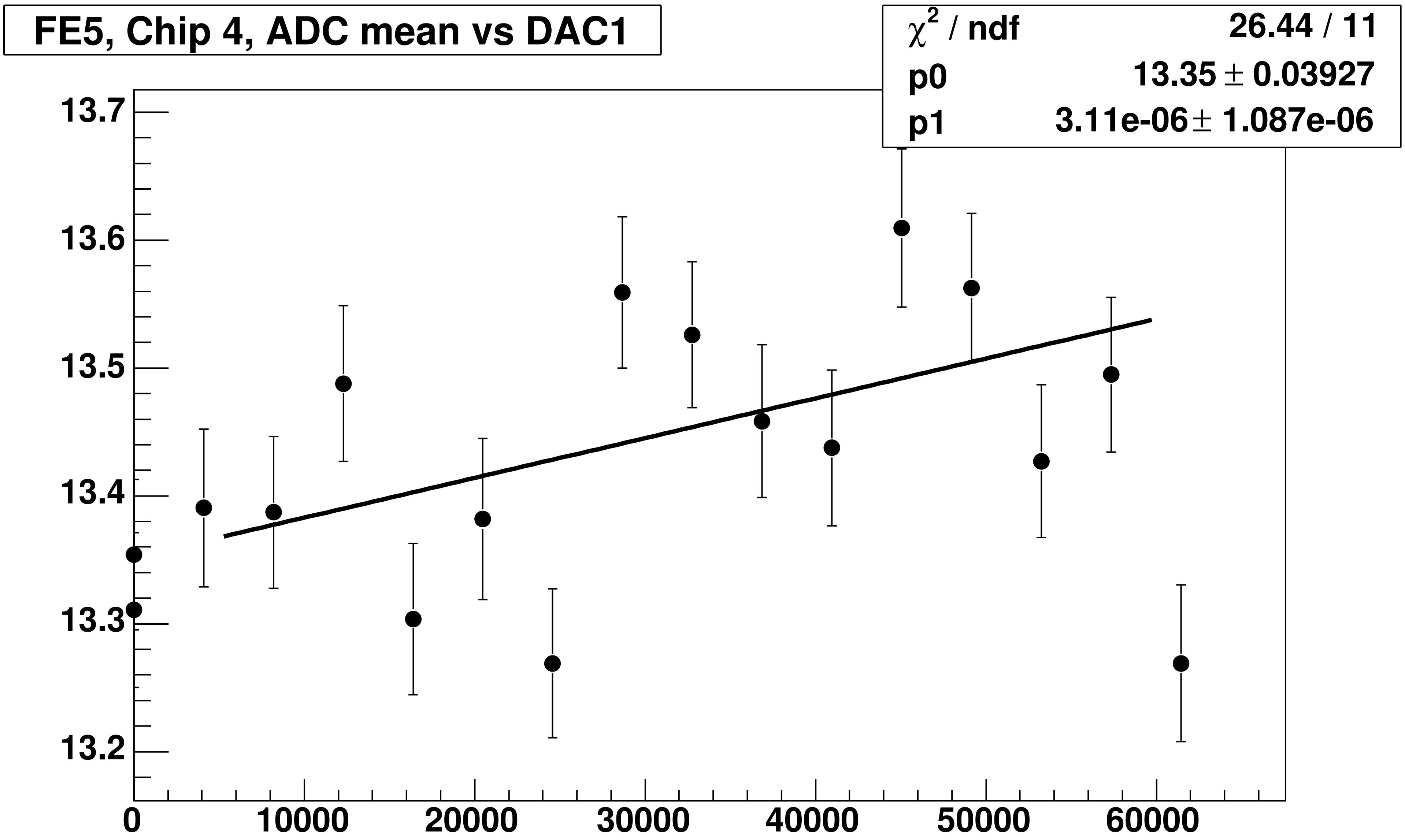

FE5, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1816 / 11
p0 12.91 ± 0.04182
p1 0.4509 ± 1.343e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



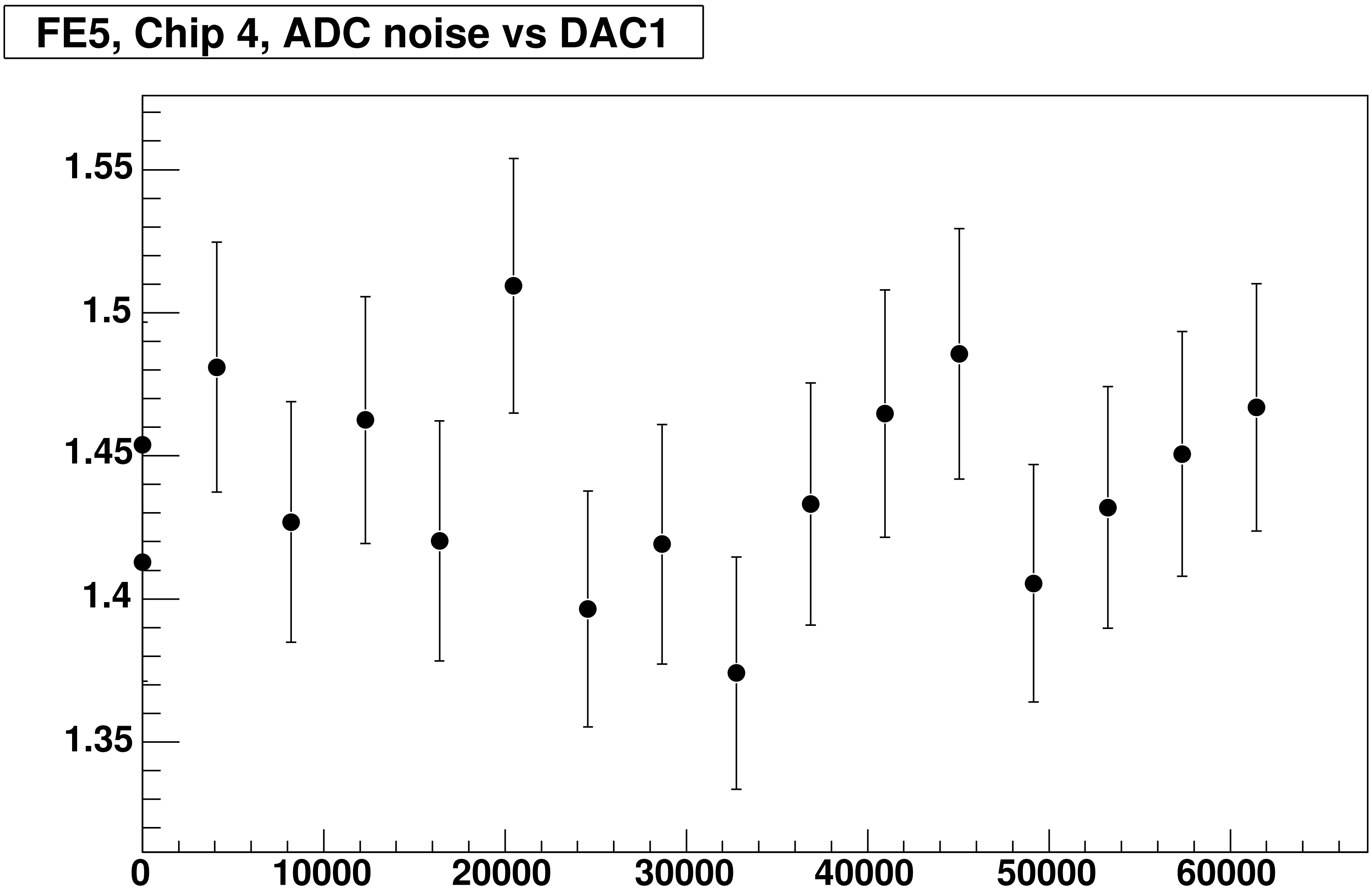
FE5, Chip 4, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

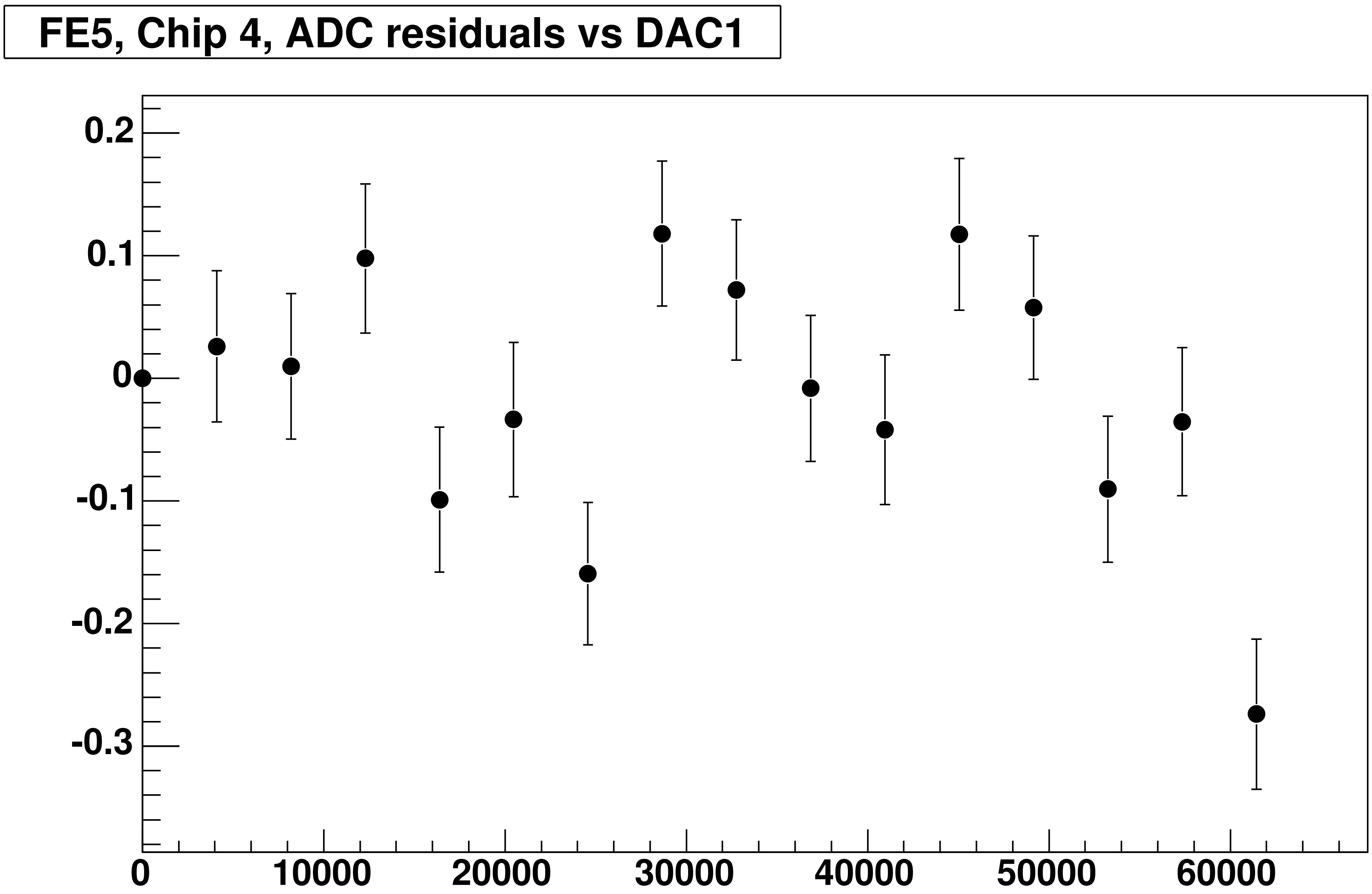


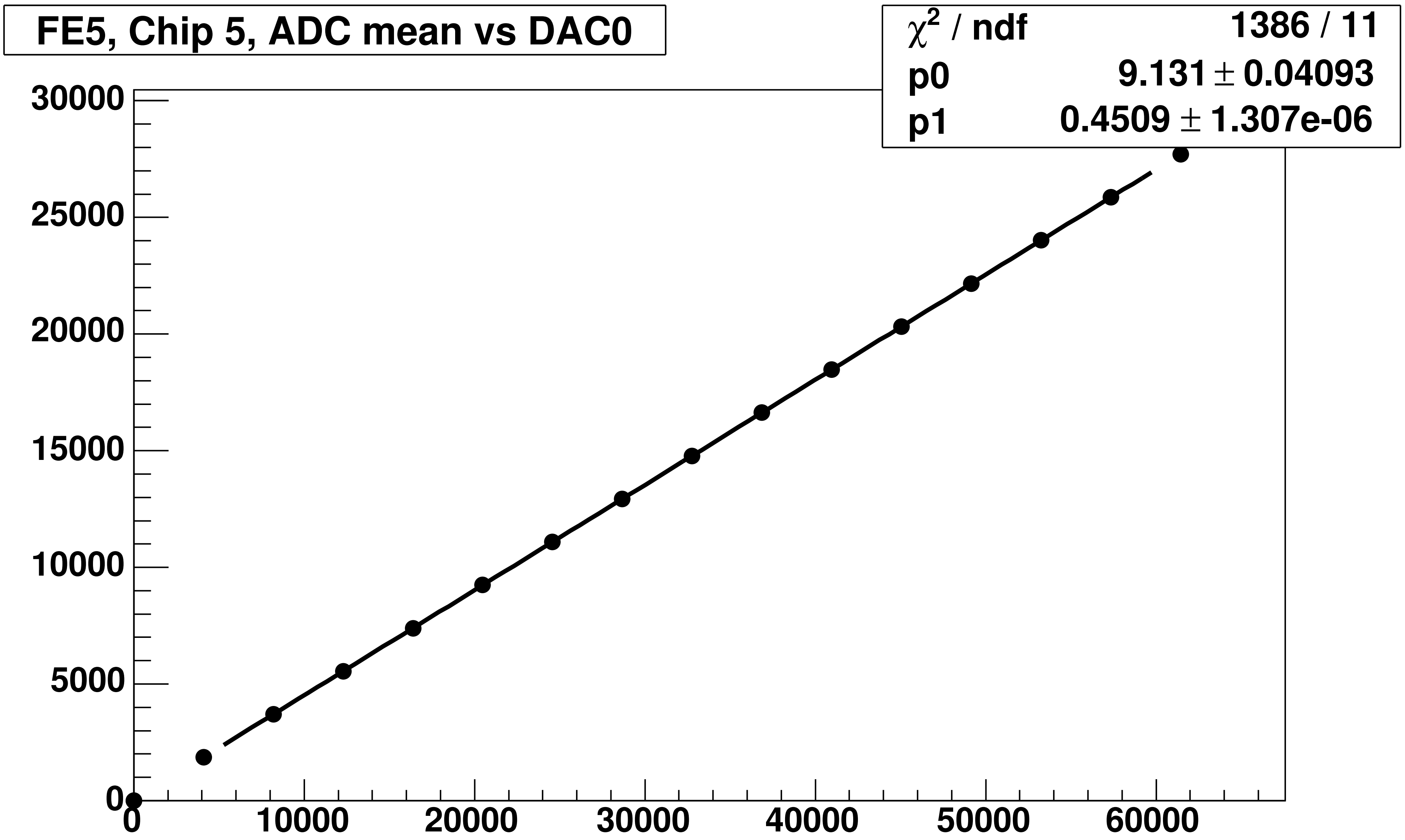
FE5, Chip 4, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

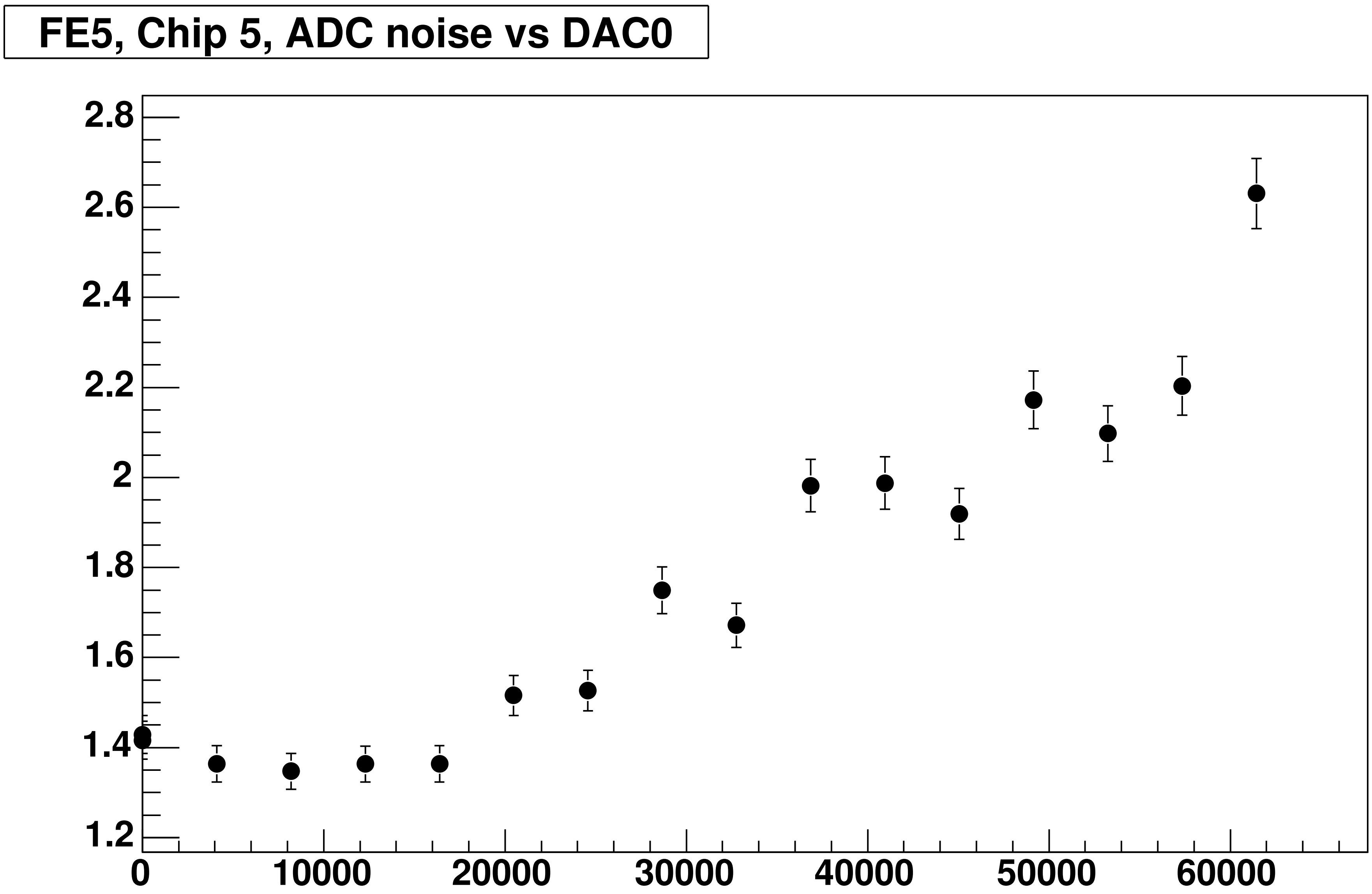


FE5, Chip 4, ADC mean vs DAC1
χ² / ndf 26.44 / 11
p0 13.35 ± 0.03927
p1 3.11e-06 ± 1.087e-06
13.7
13.6
13.5
13.4
13.3
13.2
0
10000
20000
30000
40000
50000
60000

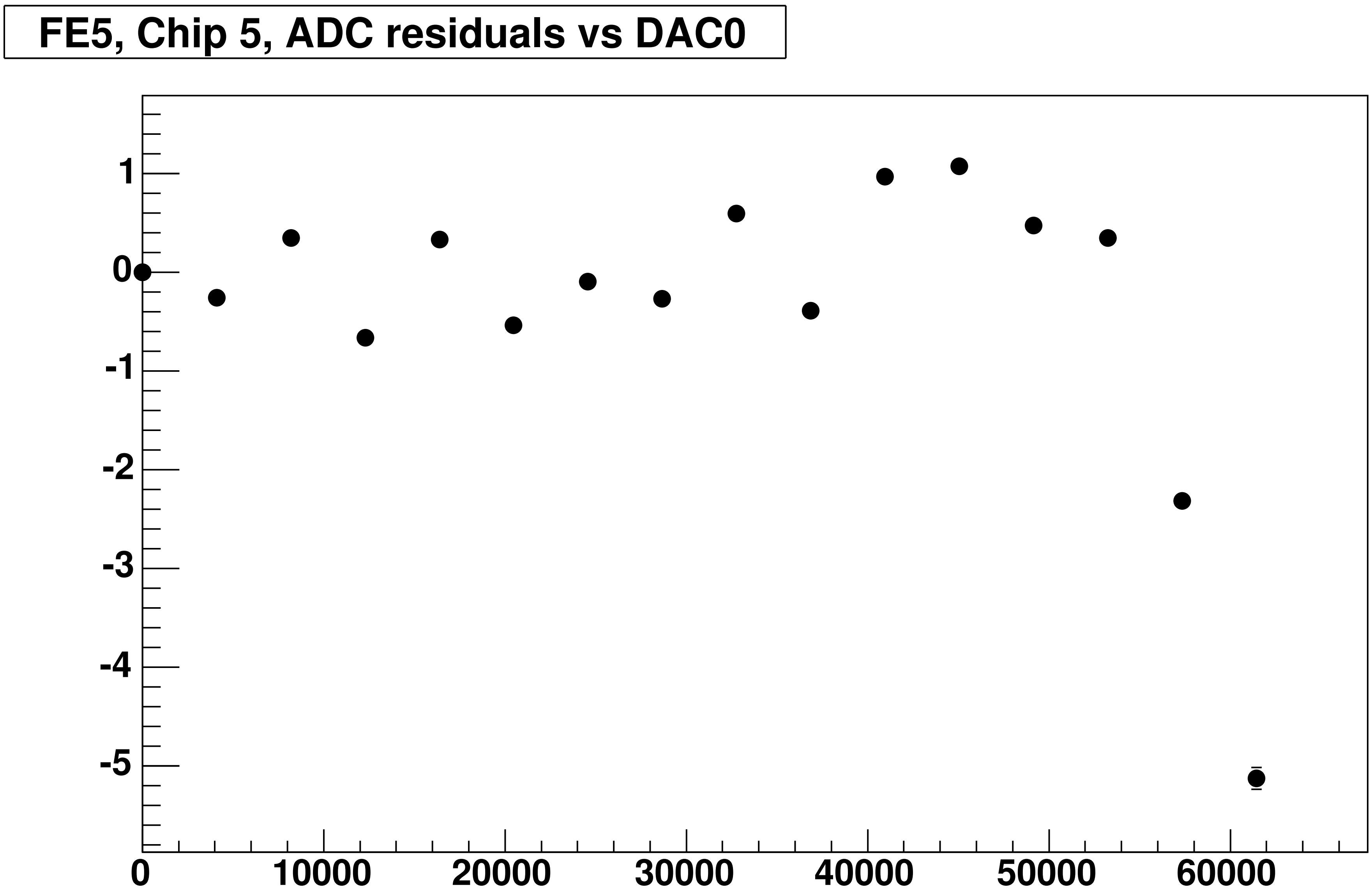

FE5, Chip 4, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

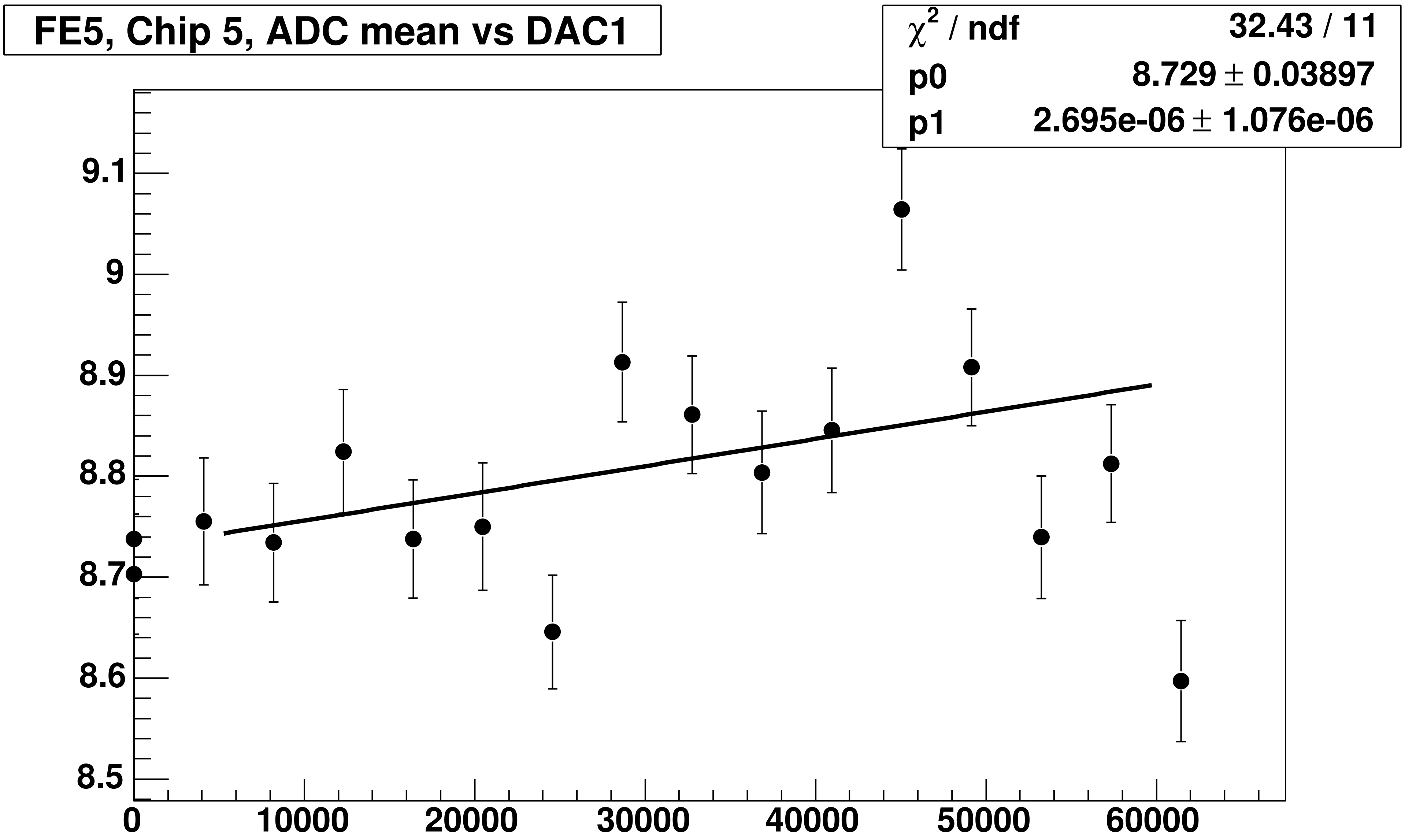

FE5, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE5, Chip 5, ADC mean vs DAC0
χ2 / ndf 1386 / 11
p0 9.131 ± 0.04093
p1 0.4509 ± 1.307e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

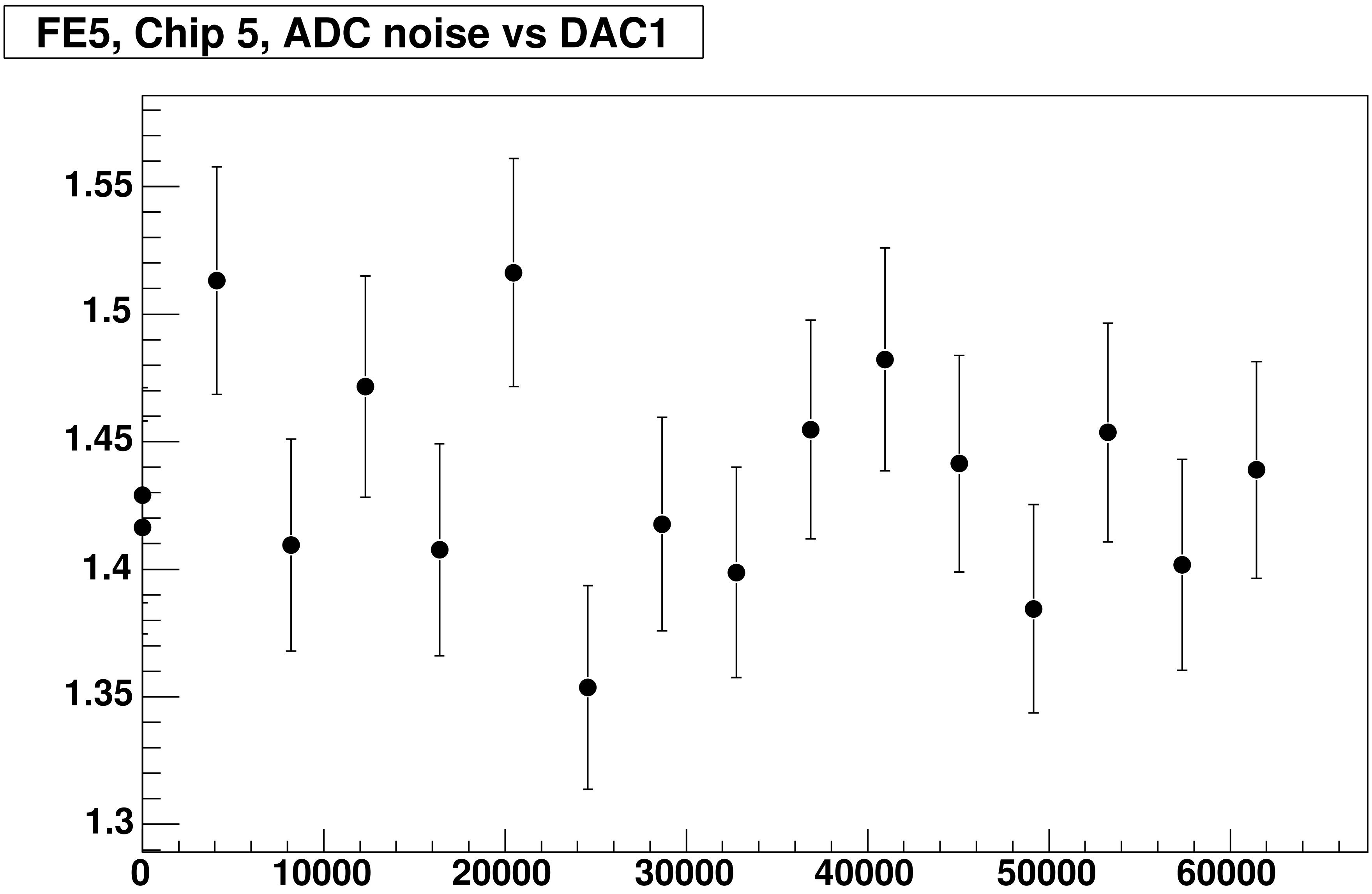


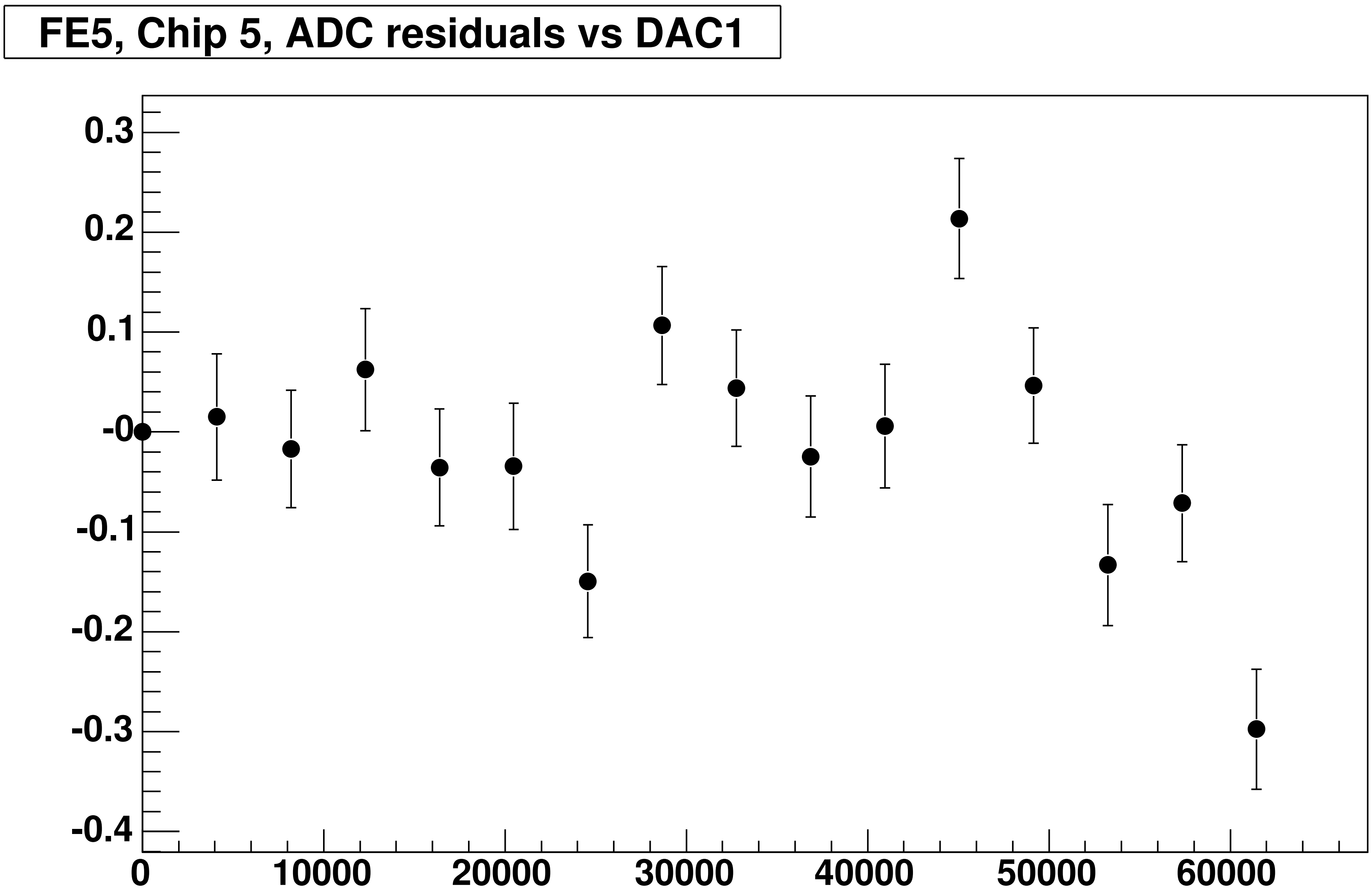
FE5, Chip 5, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

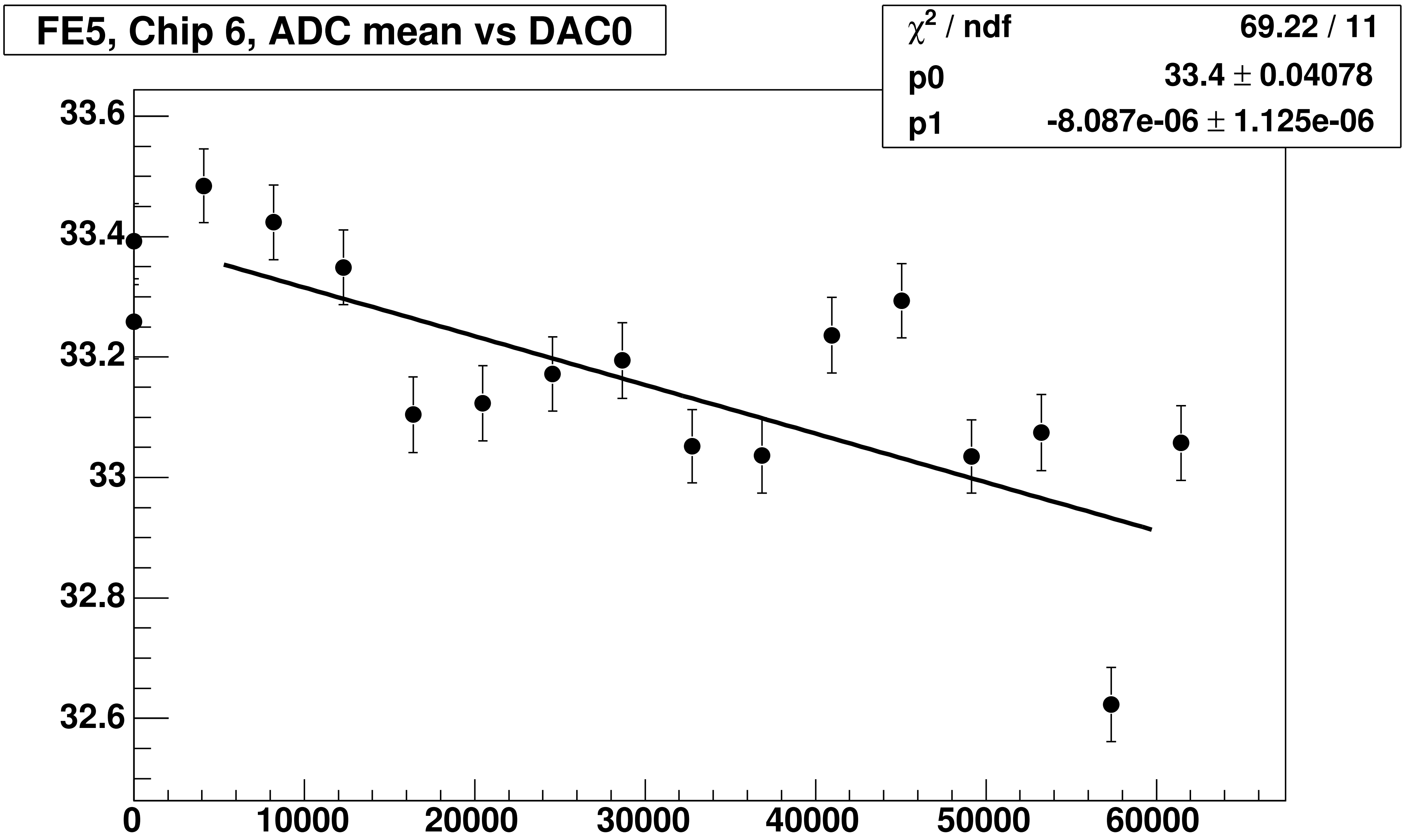

FE5, Chip 5, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

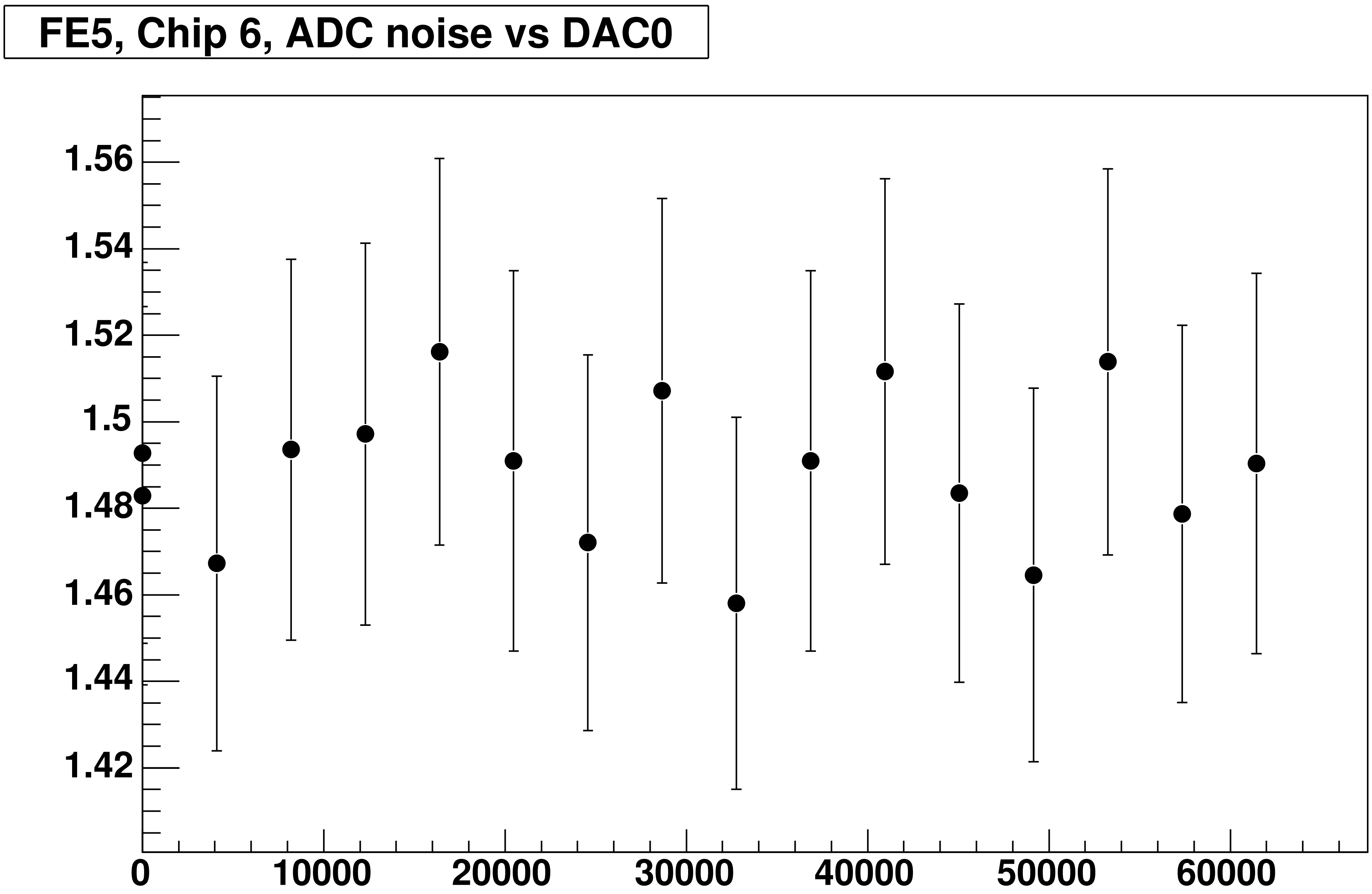


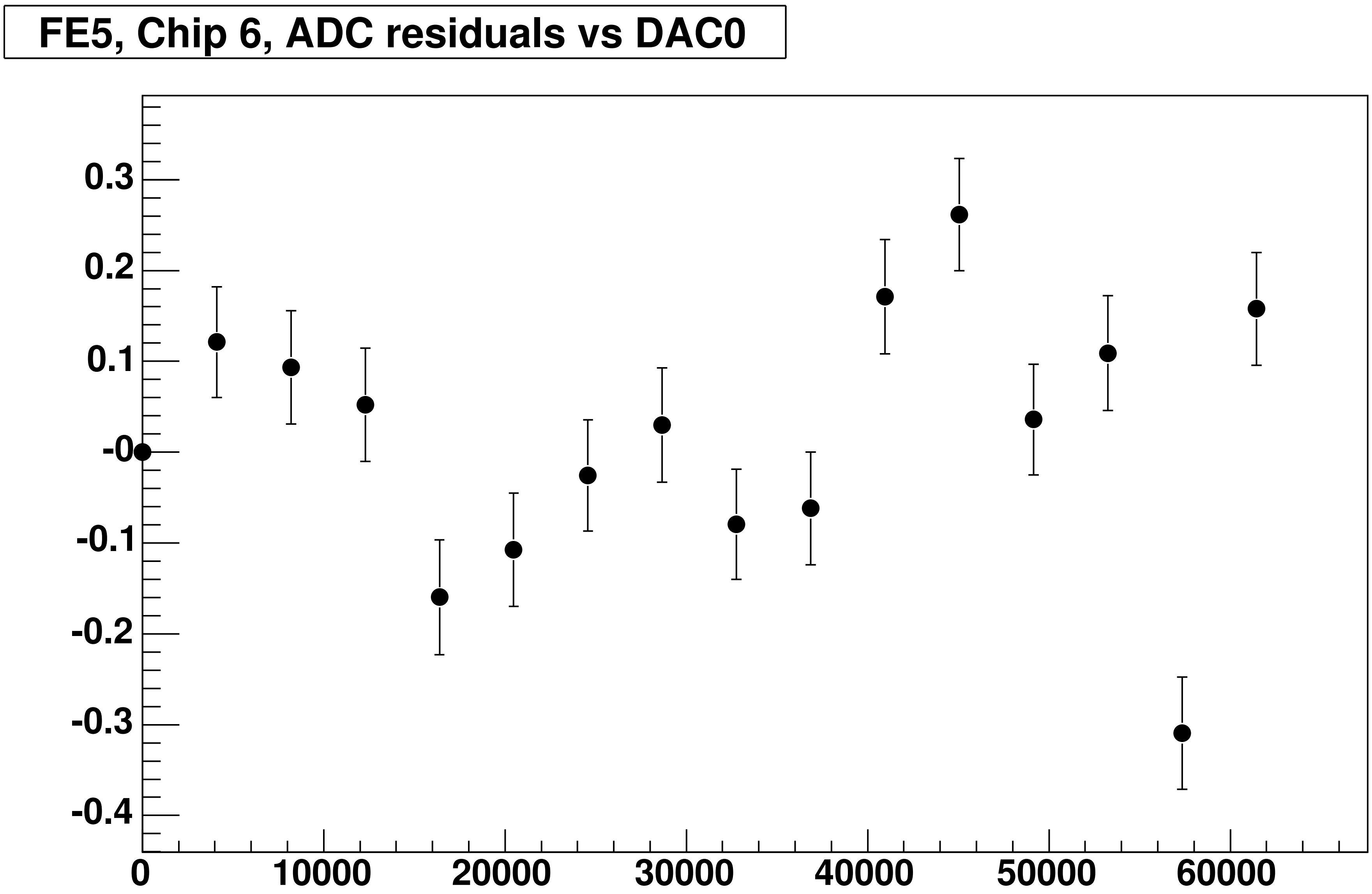
FE5, Chip 5, ADC mean vs DAC1
χ^2 / ndf 32.43 / 11
p0 8.729 ± 0.03897
p1 2.695e-06 ± 1.076e-06
9.1
9
8.9
8.8
8.7
8.6
8.5
0
10000
20000
30000
40000
50000
60000

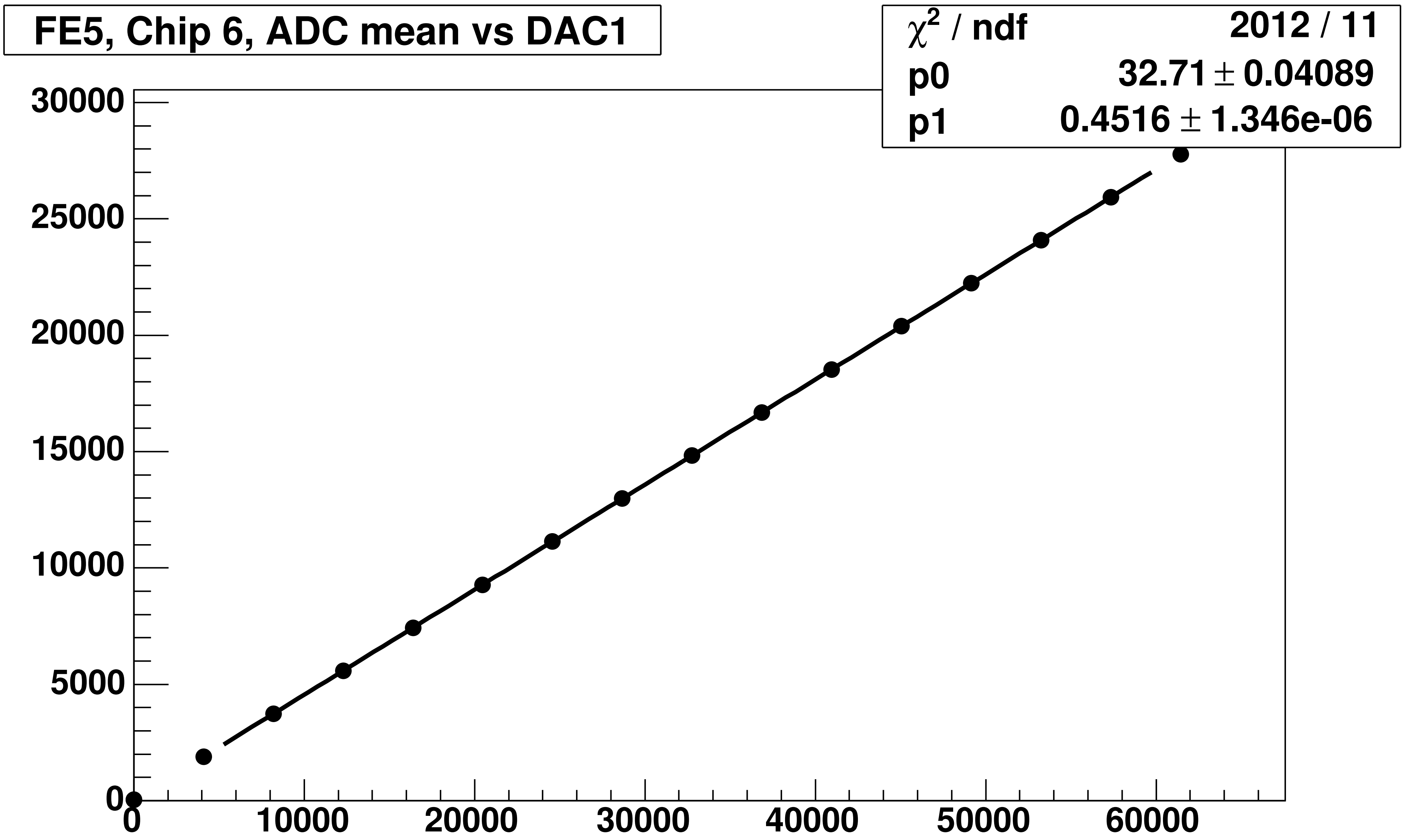

FE5, Chip 5, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


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

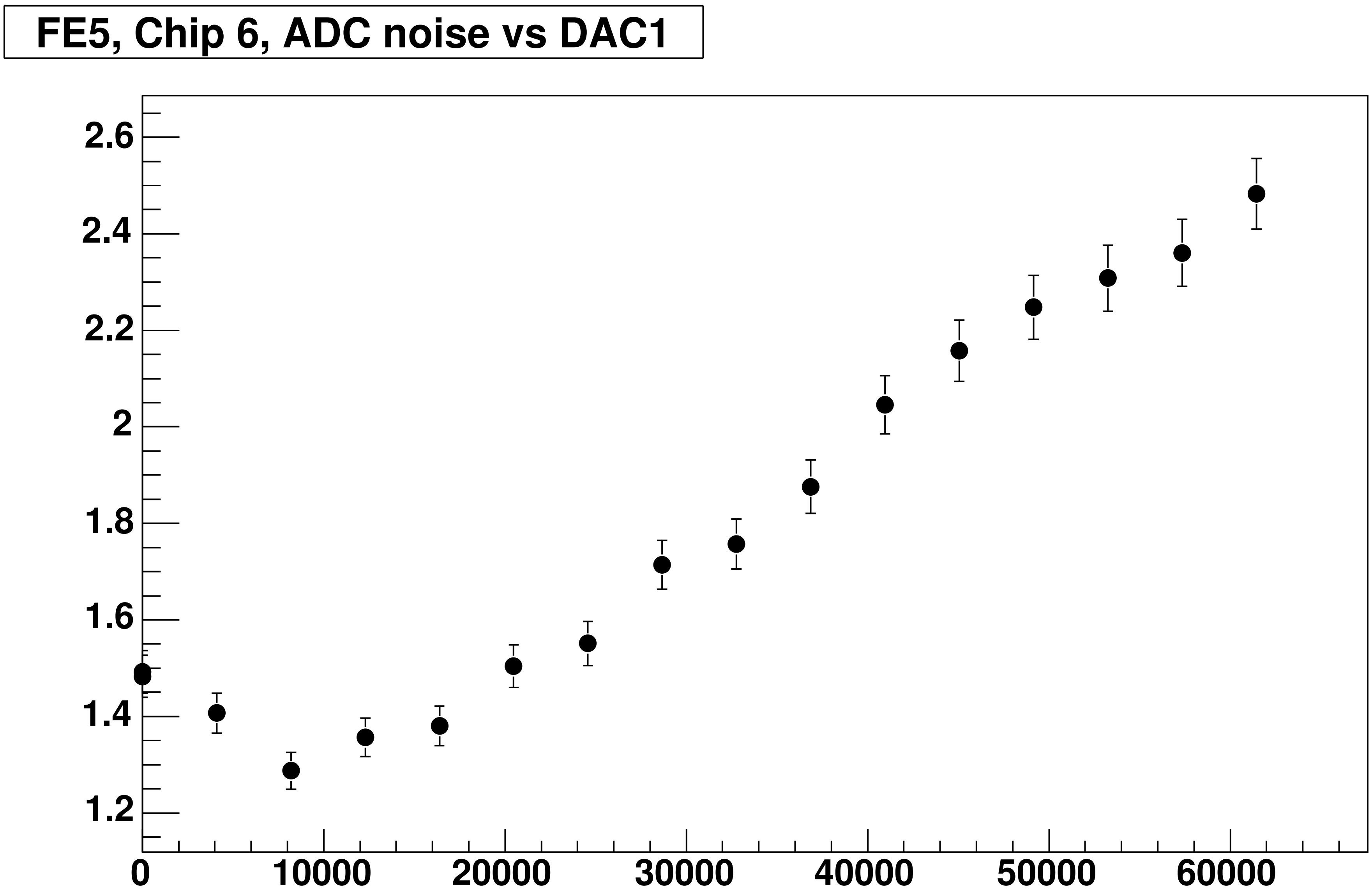

FE5, Chip 6, ADC mean vs DAC0
χ^2 / ndf 69.22 / 11
p0 33.4 ± 0.04078
p1 -8.087e-06 ± 1.125e-06
33.6
33.4
33.2
33
32.8
32.6
0
10000
20000
30000
40000
50000
60000

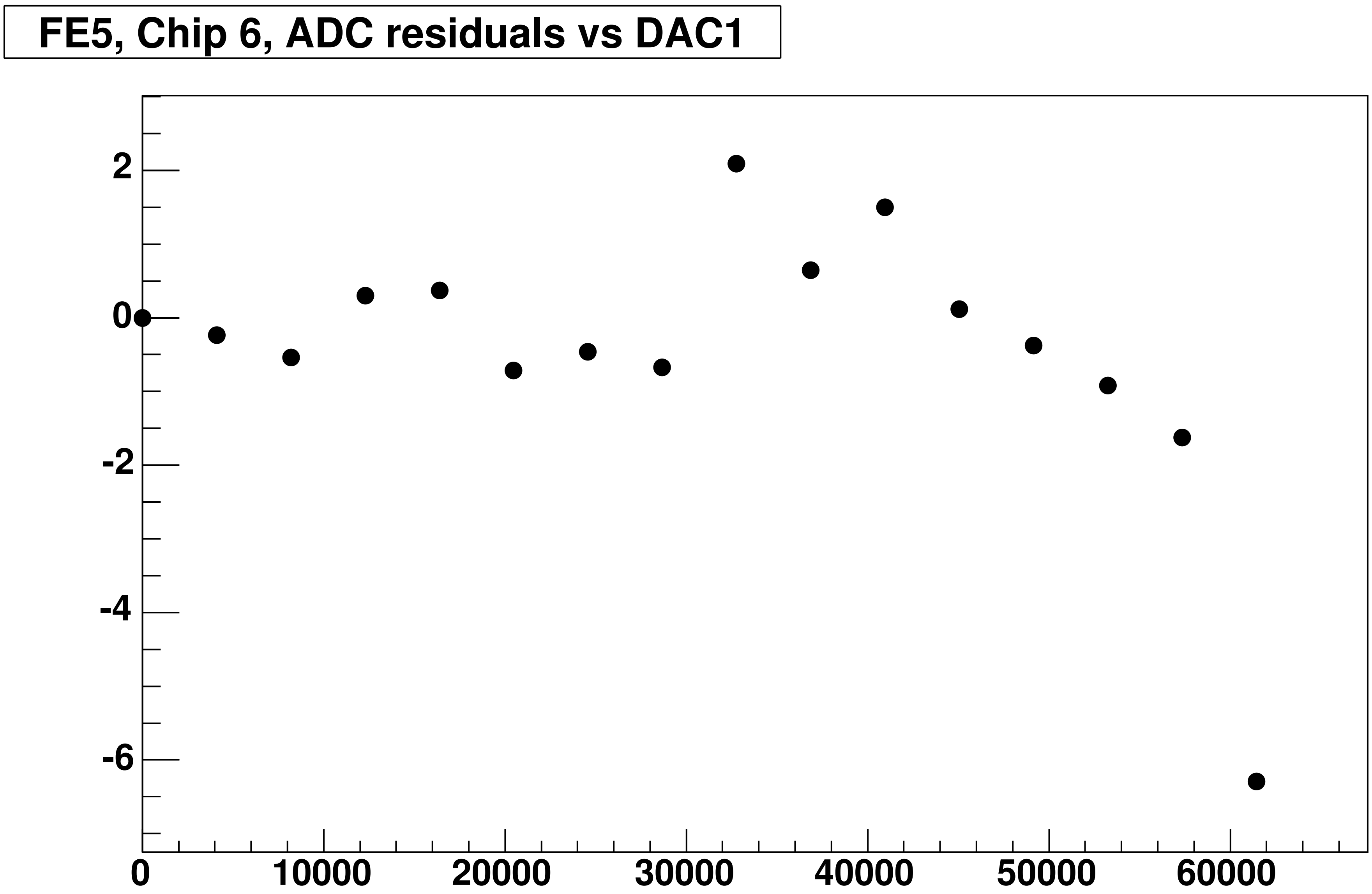

FE5, Chip 6, ADC noise vs DAC0
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
0
10000
20000
30000
40000
50000
60000

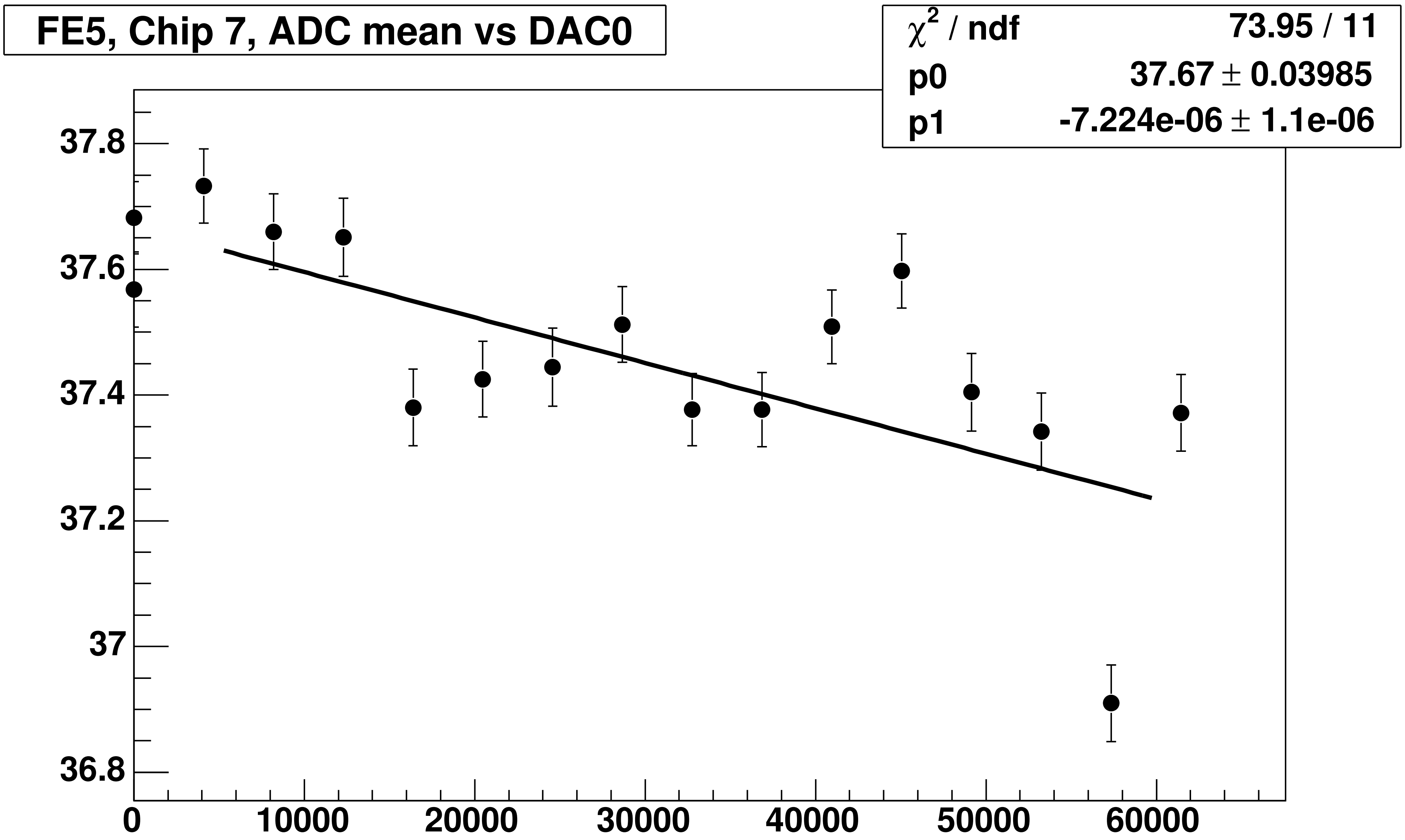

FE5, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

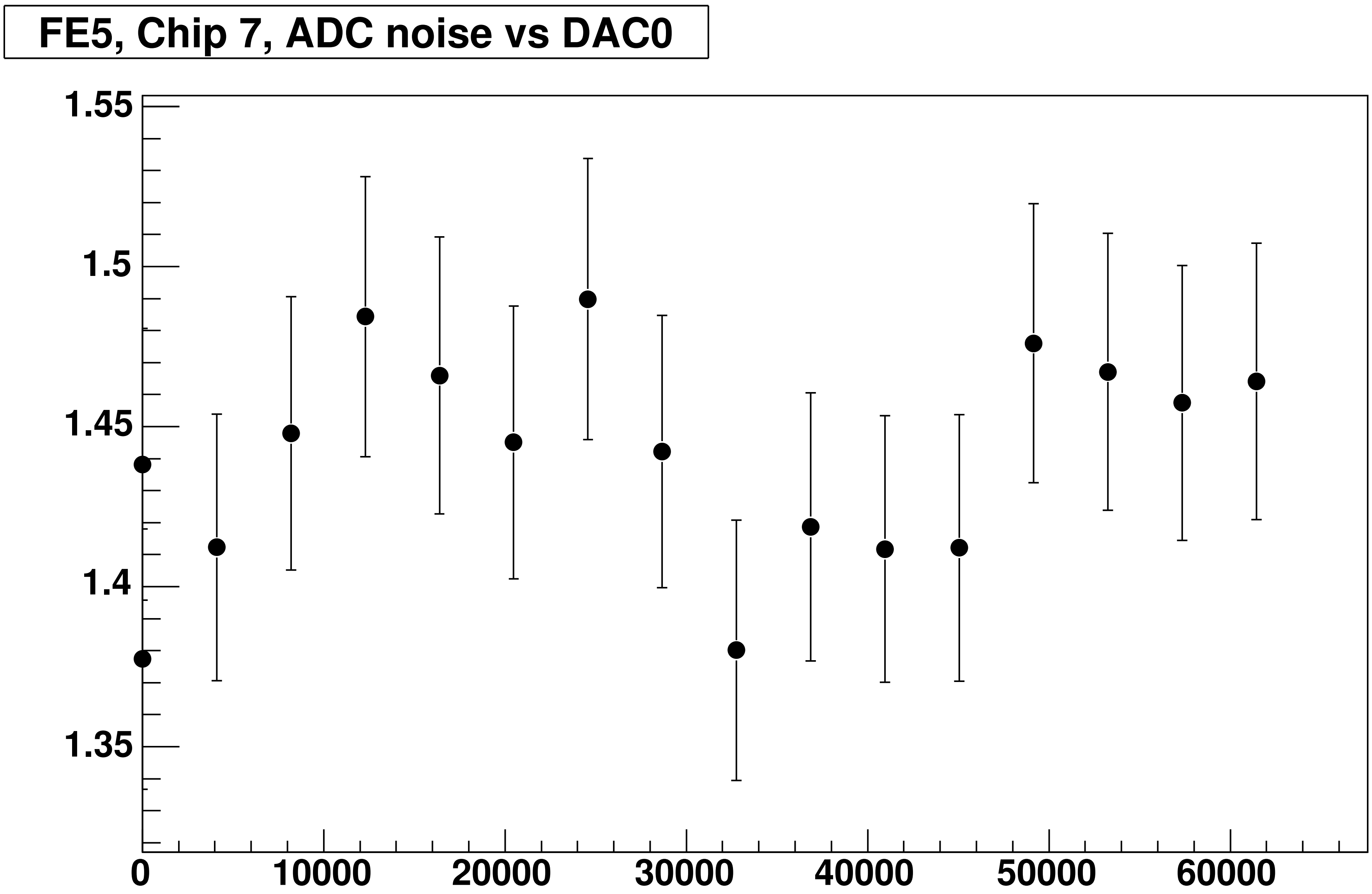


FE5, Chip 6, ADC mean vs DAC1
χ^2 / ndf 2012 / 11
p0 32.71 ± 0.04089
p1 0.4516 ± 1.346e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

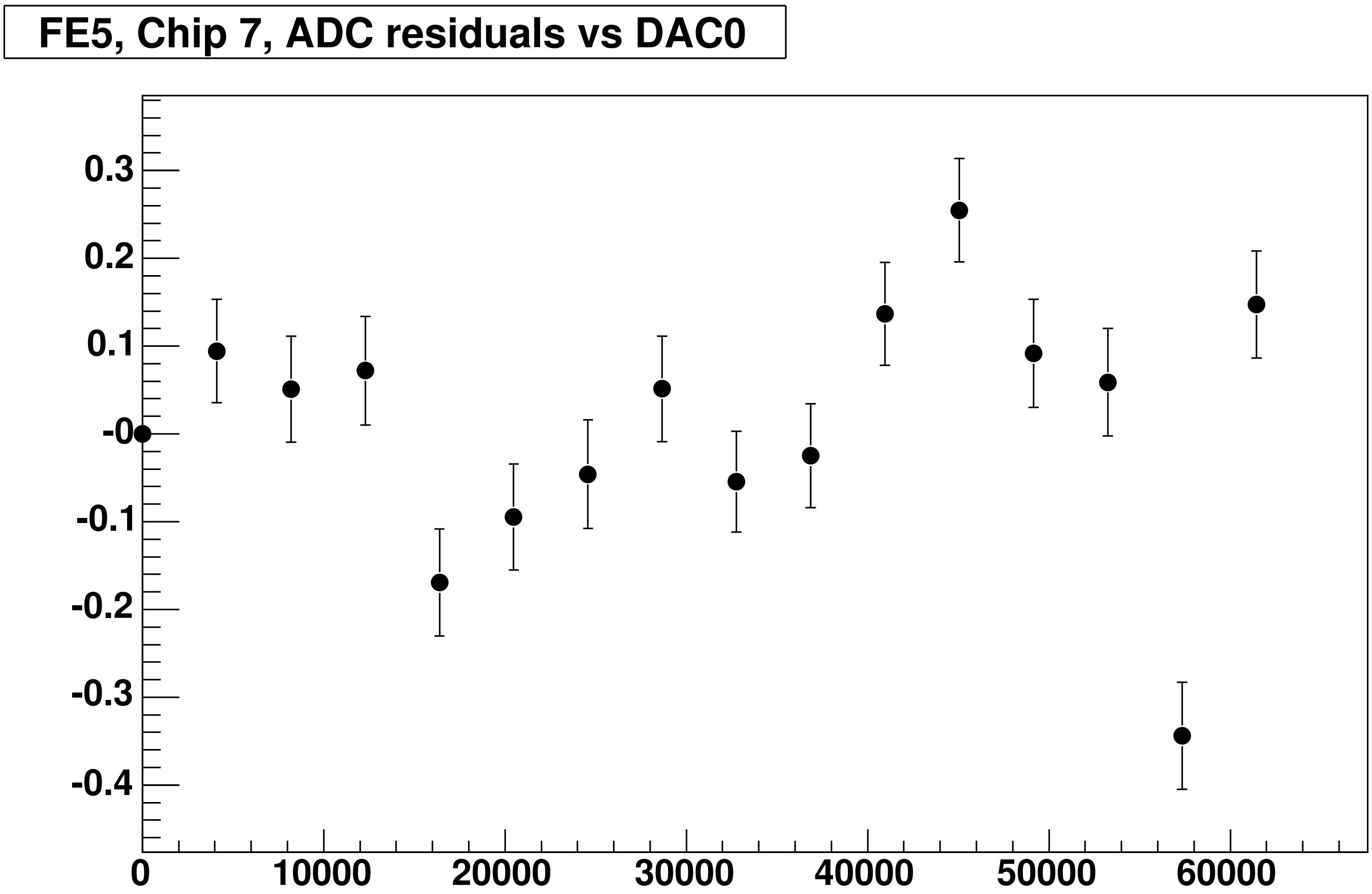

FE5, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

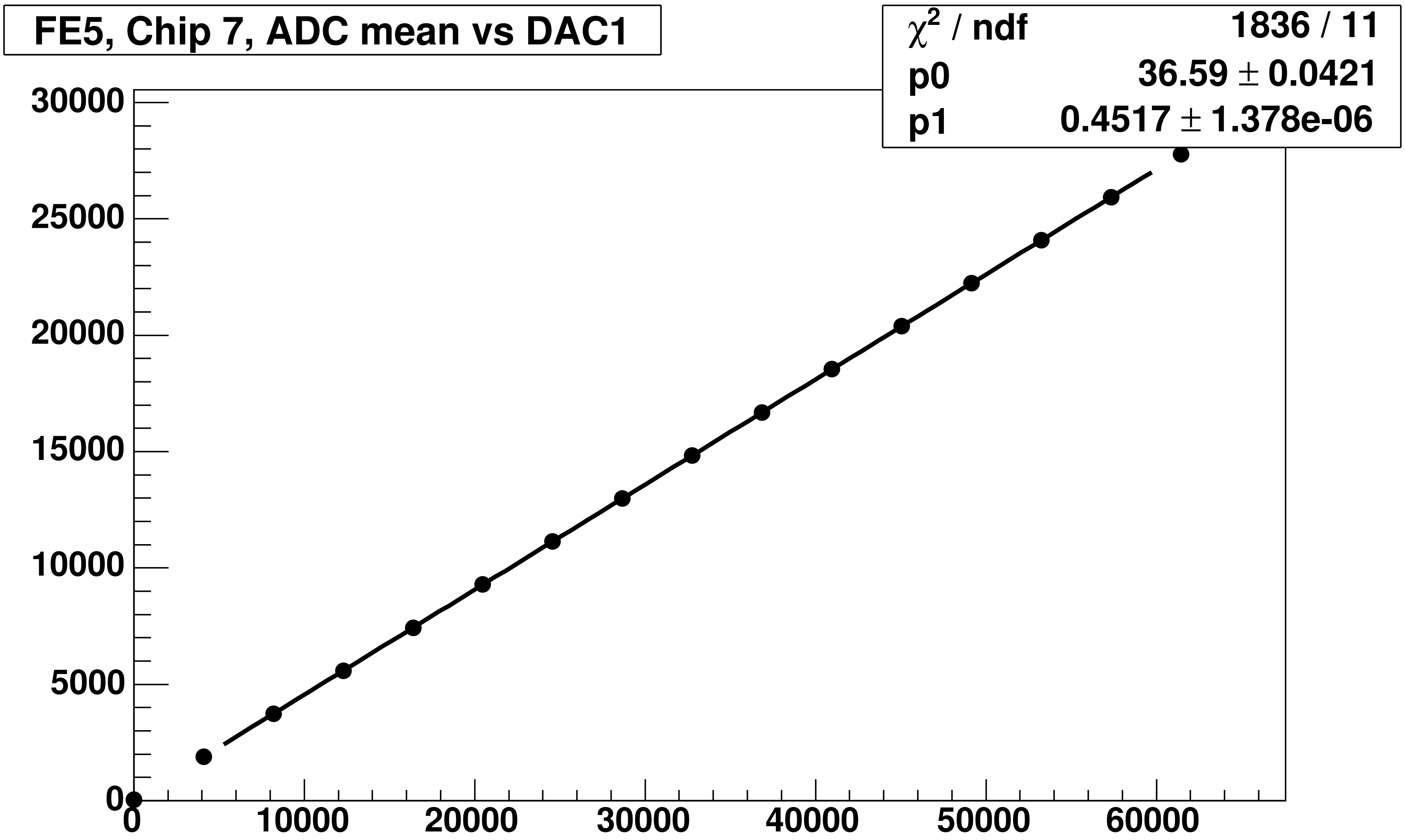

FE5, Chip 6, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

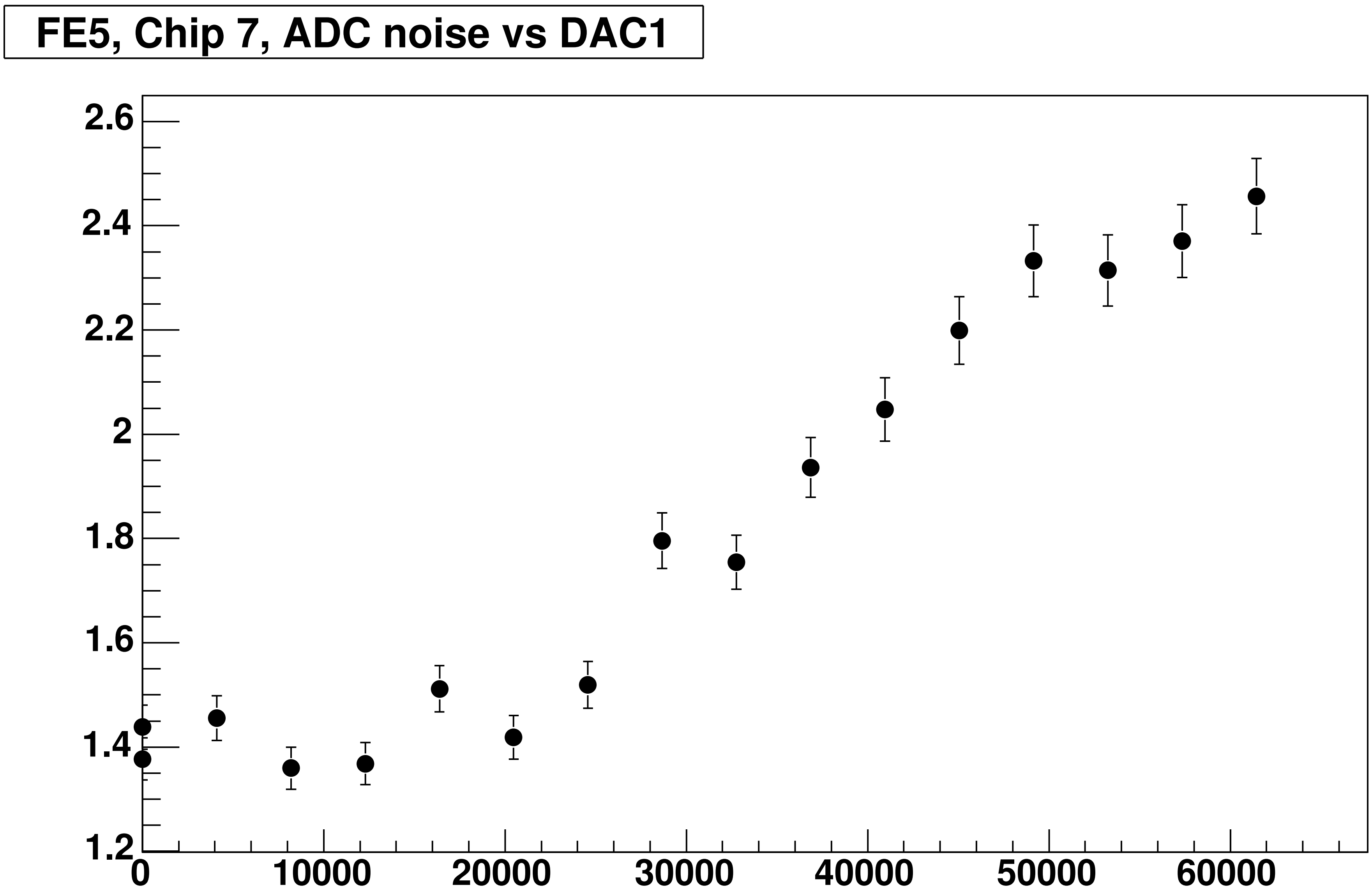

FE5, Chip 7, ADC mean vs DAC0
χ^2 / ndf 73.95 / 11
p0 37.67 ± 0.03985
p1 -7.224e-06 ± 1.1e-06
37.8
37.6
37.4
37.2
37
36.8
0
10000
20000
30000
40000
50000
60000

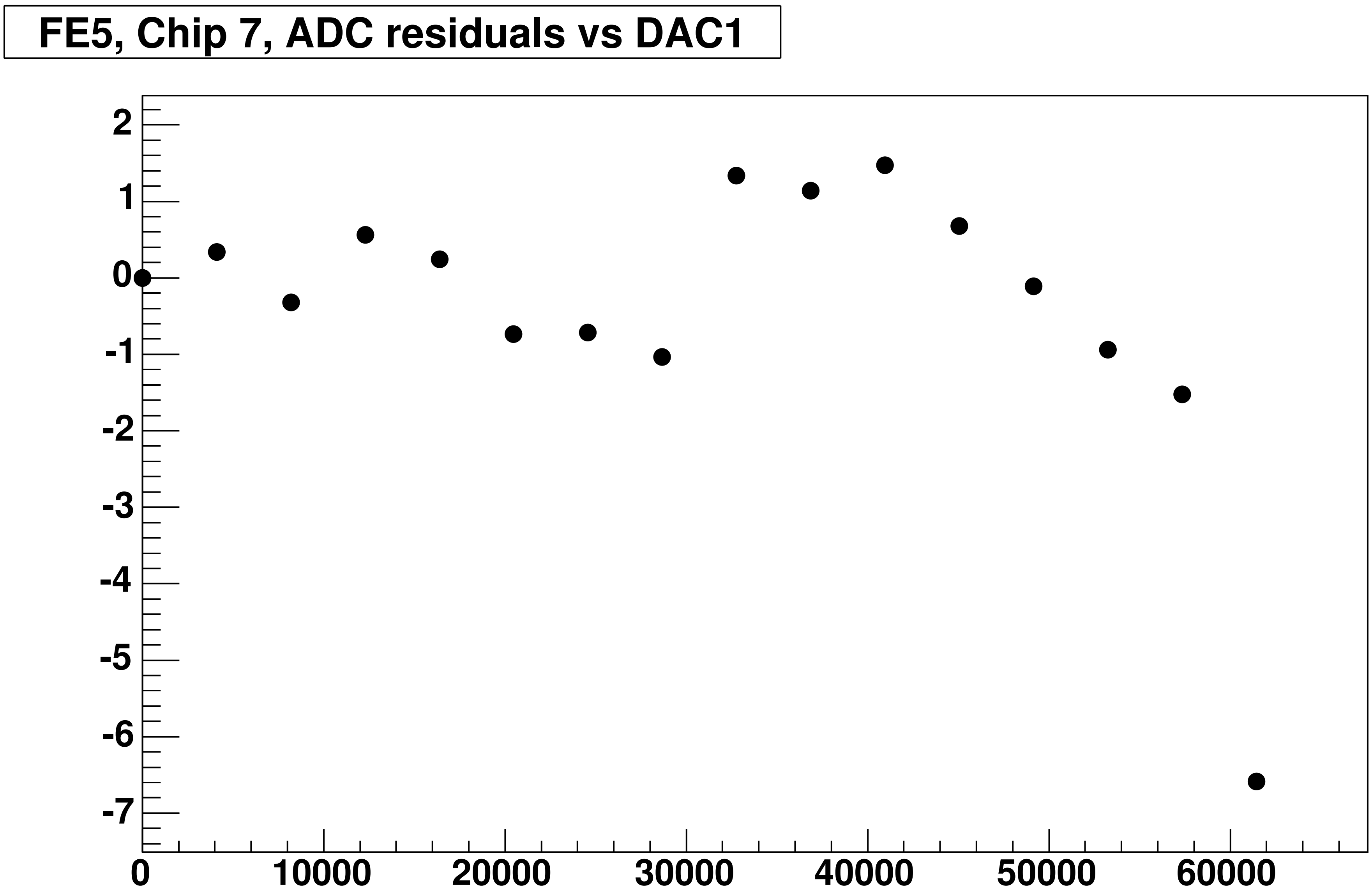


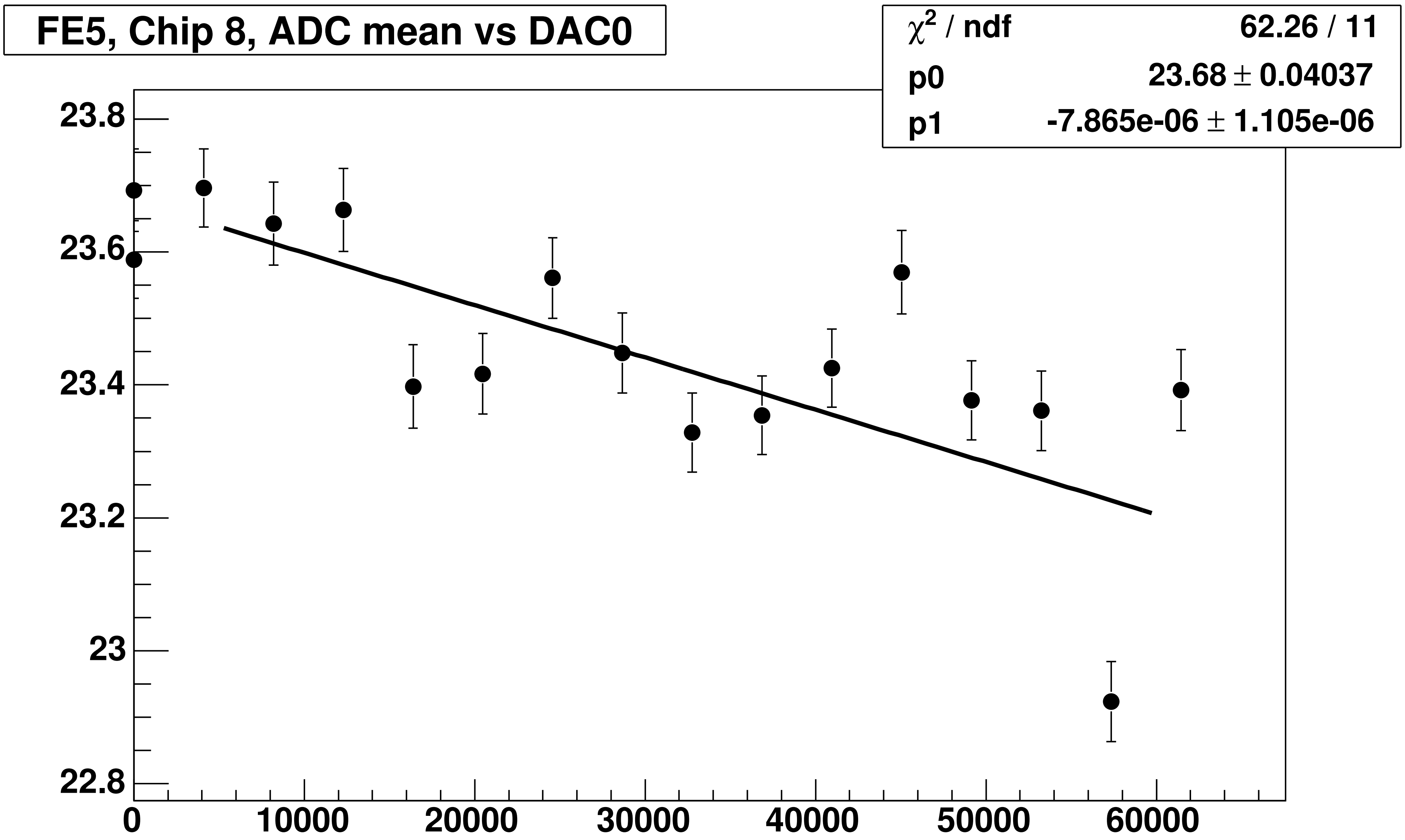
FE5, Chip 7, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

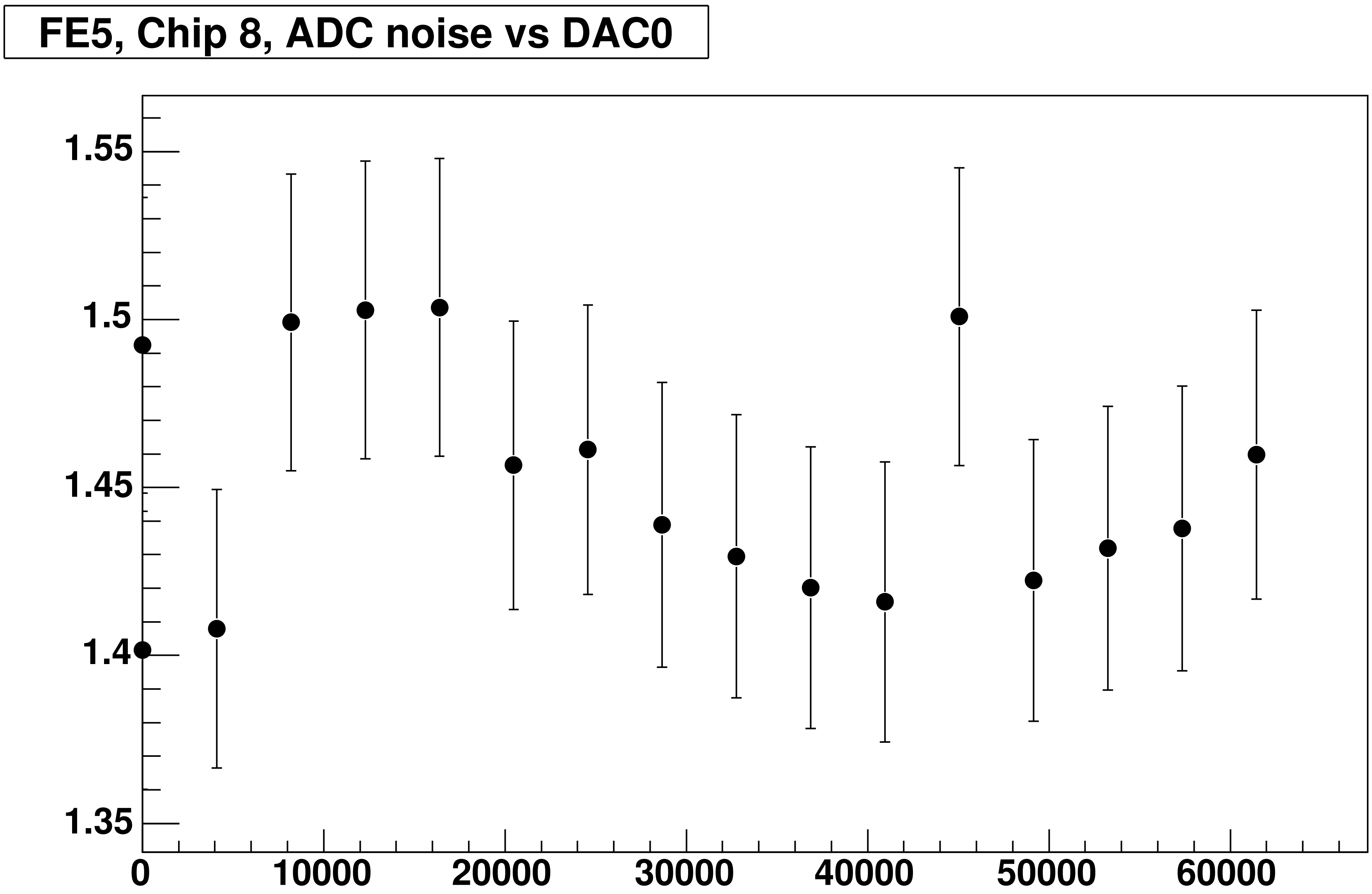

FE5, Chip 7, ADC mean vs DAC1
χ2 / ndf 1836 / 11
p0 36.59 ± 0.0421
p1 0.4517 ± 1.378e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

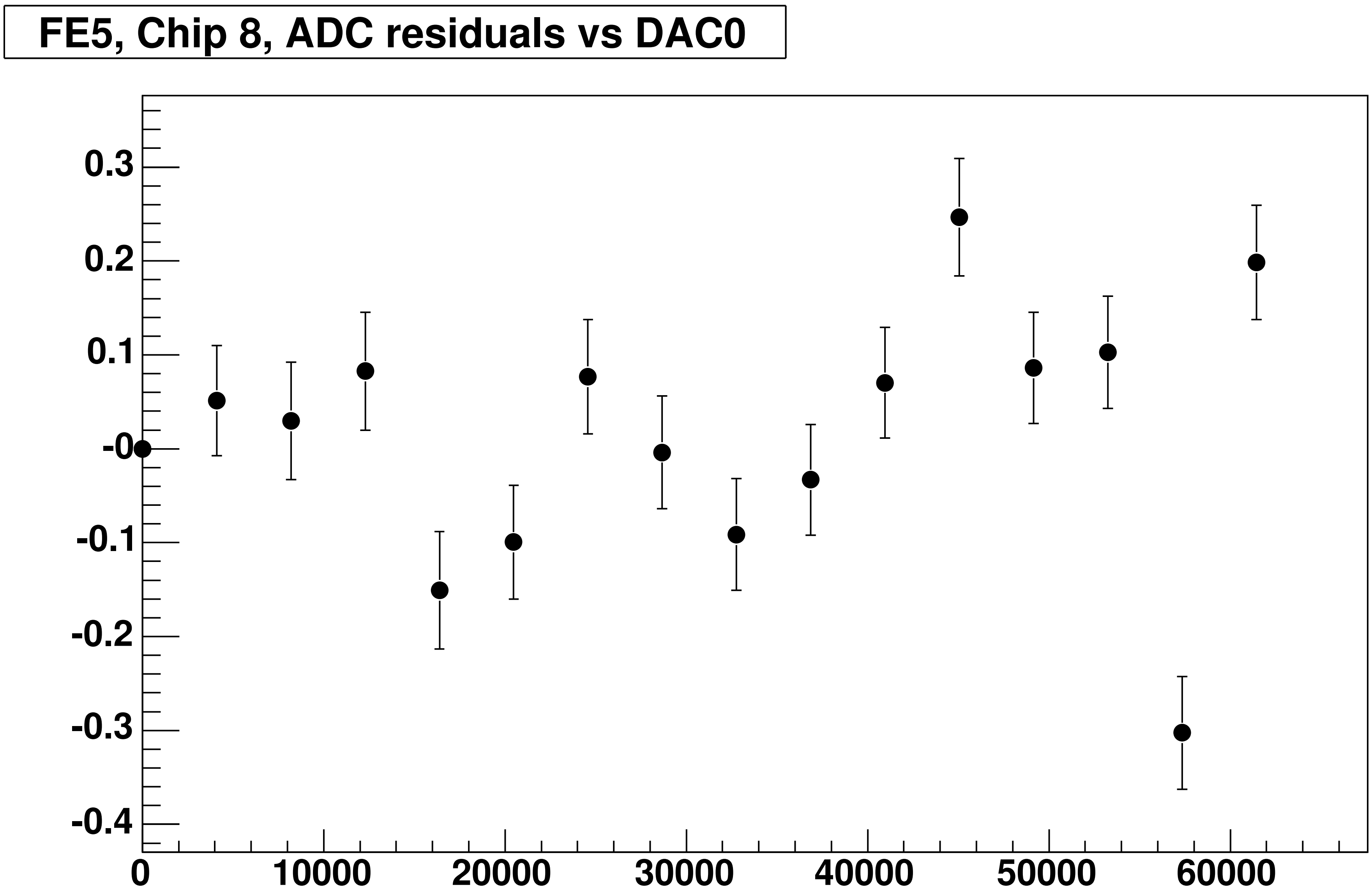

FE5, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

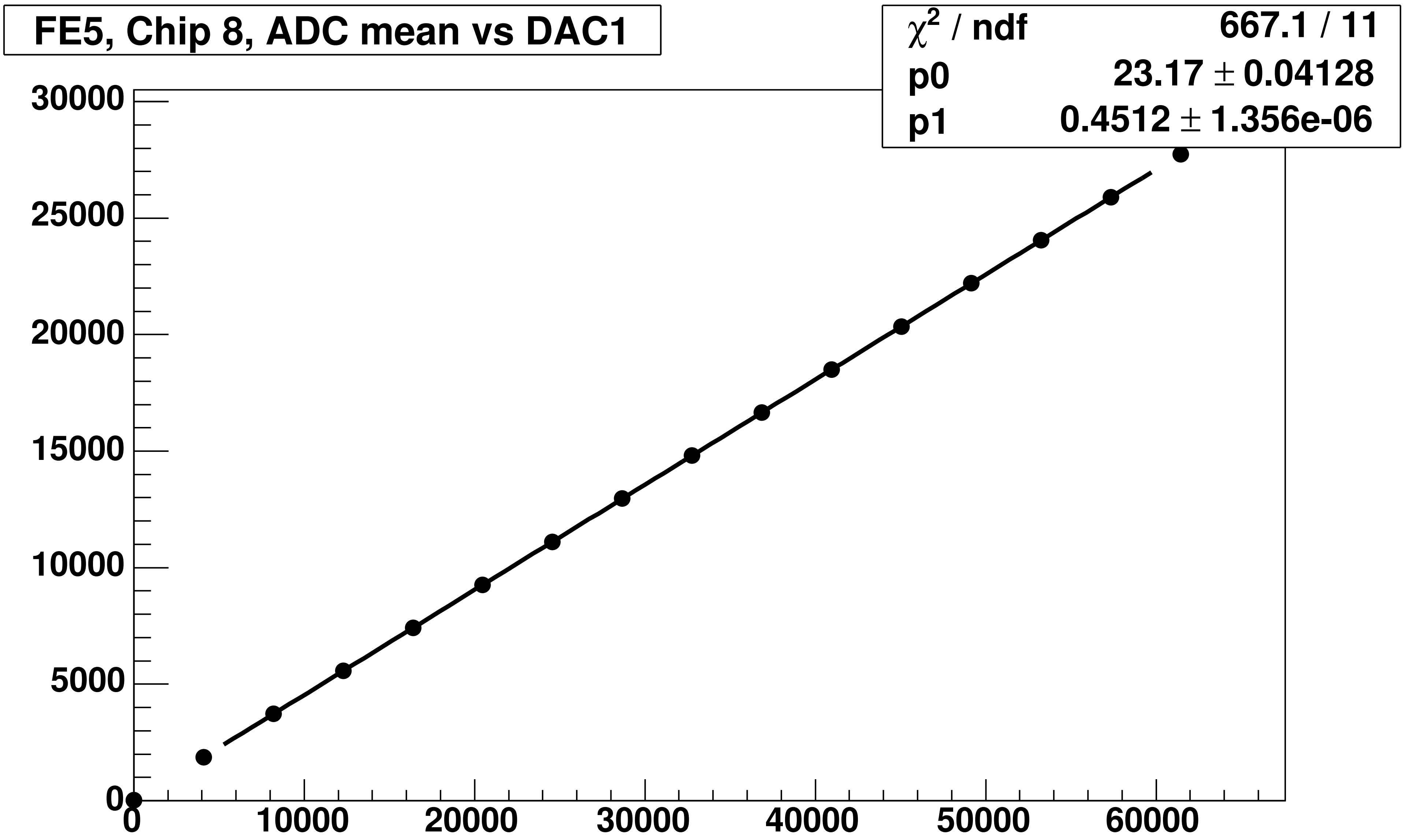


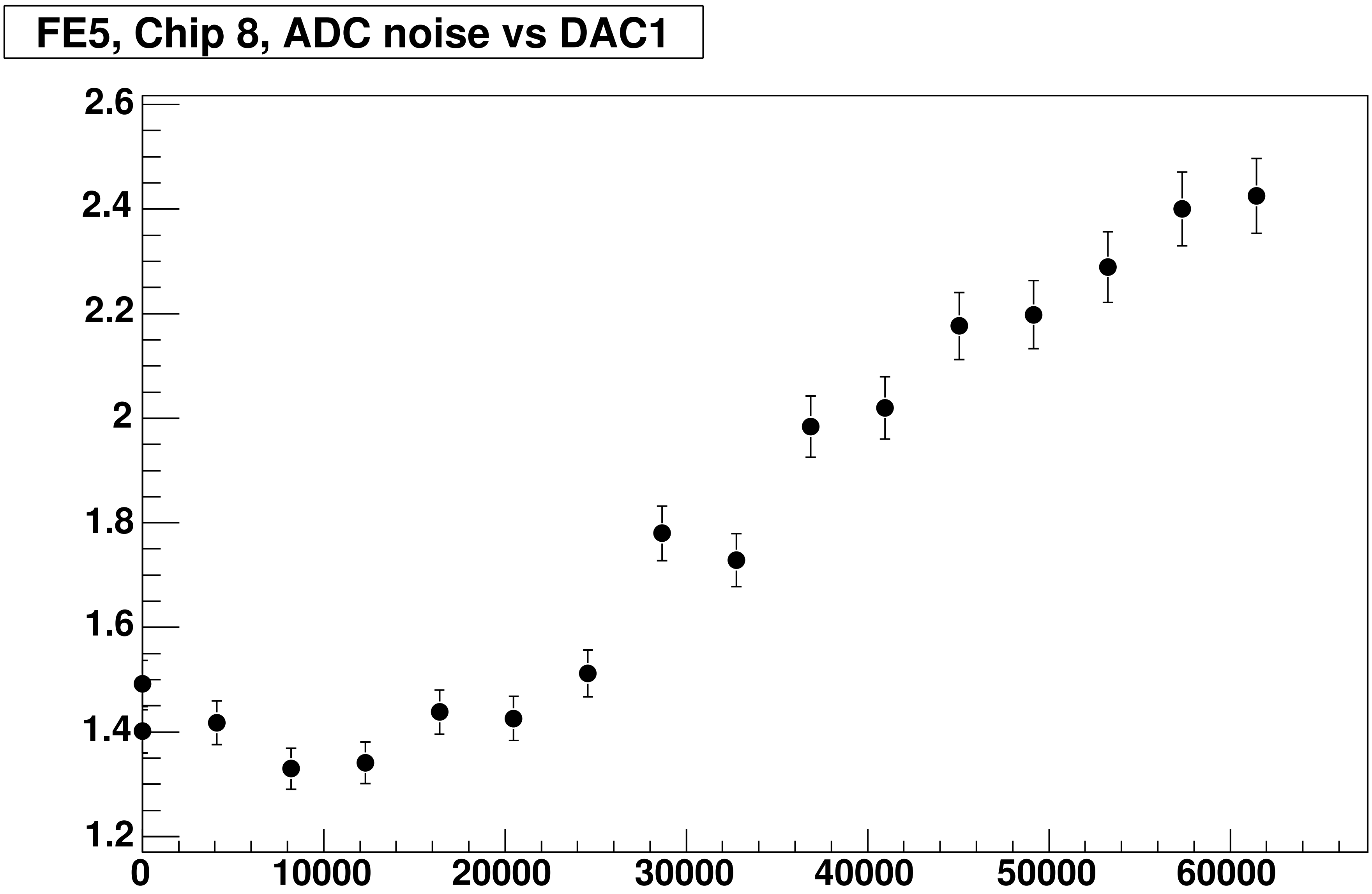
FE5, Chip 8, ADC mean vs DAC0
χ^2 / ndf 62.26 / 11
p0 23.68 ± 0.04037
p1 -7.865e-06 ± 1.105e-06
23.8
23.6
23.4
23.2
23
22.8
0
10000
20000
30000
40000
50000
60000

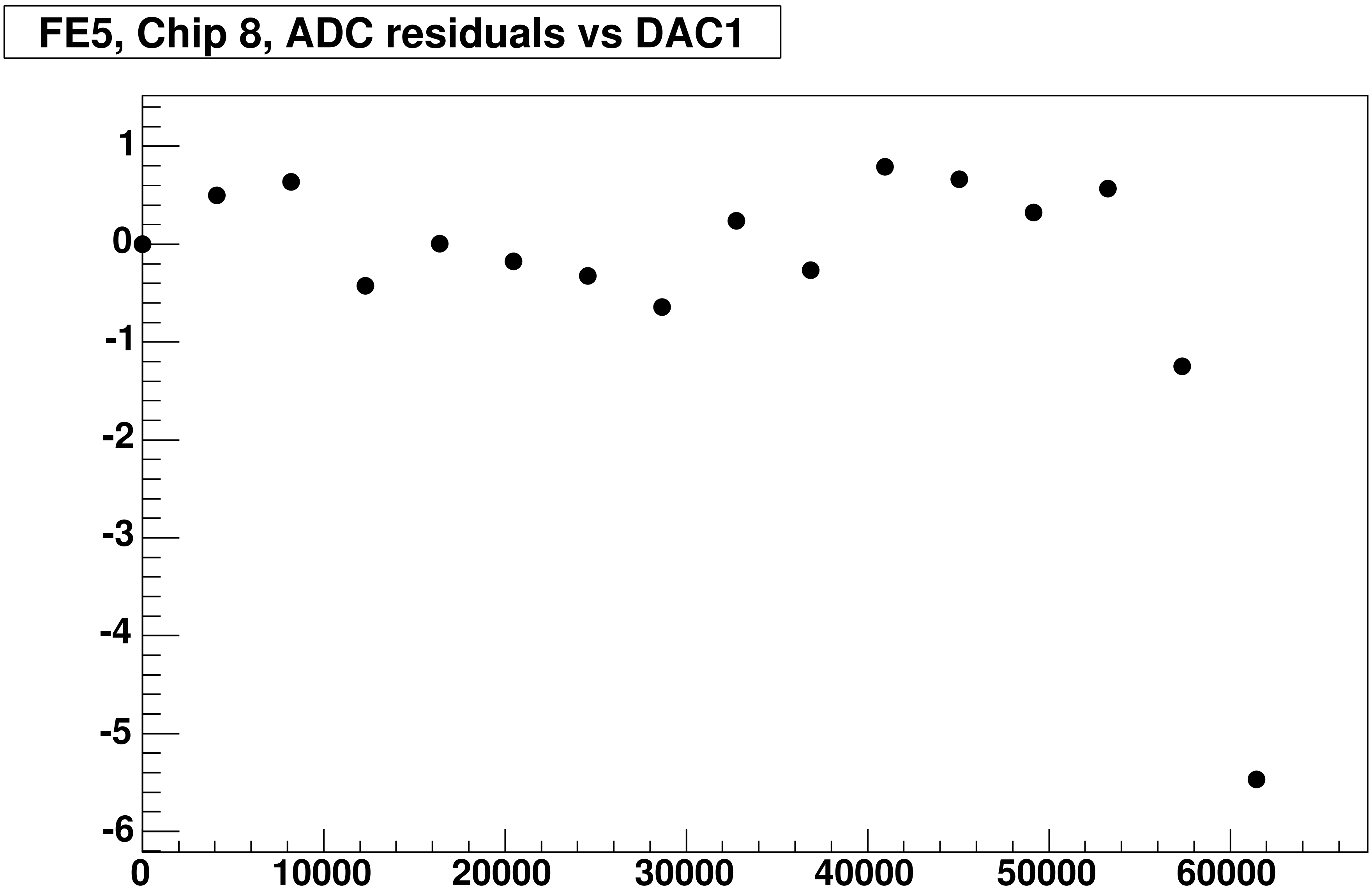

FE5, Chip 8, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

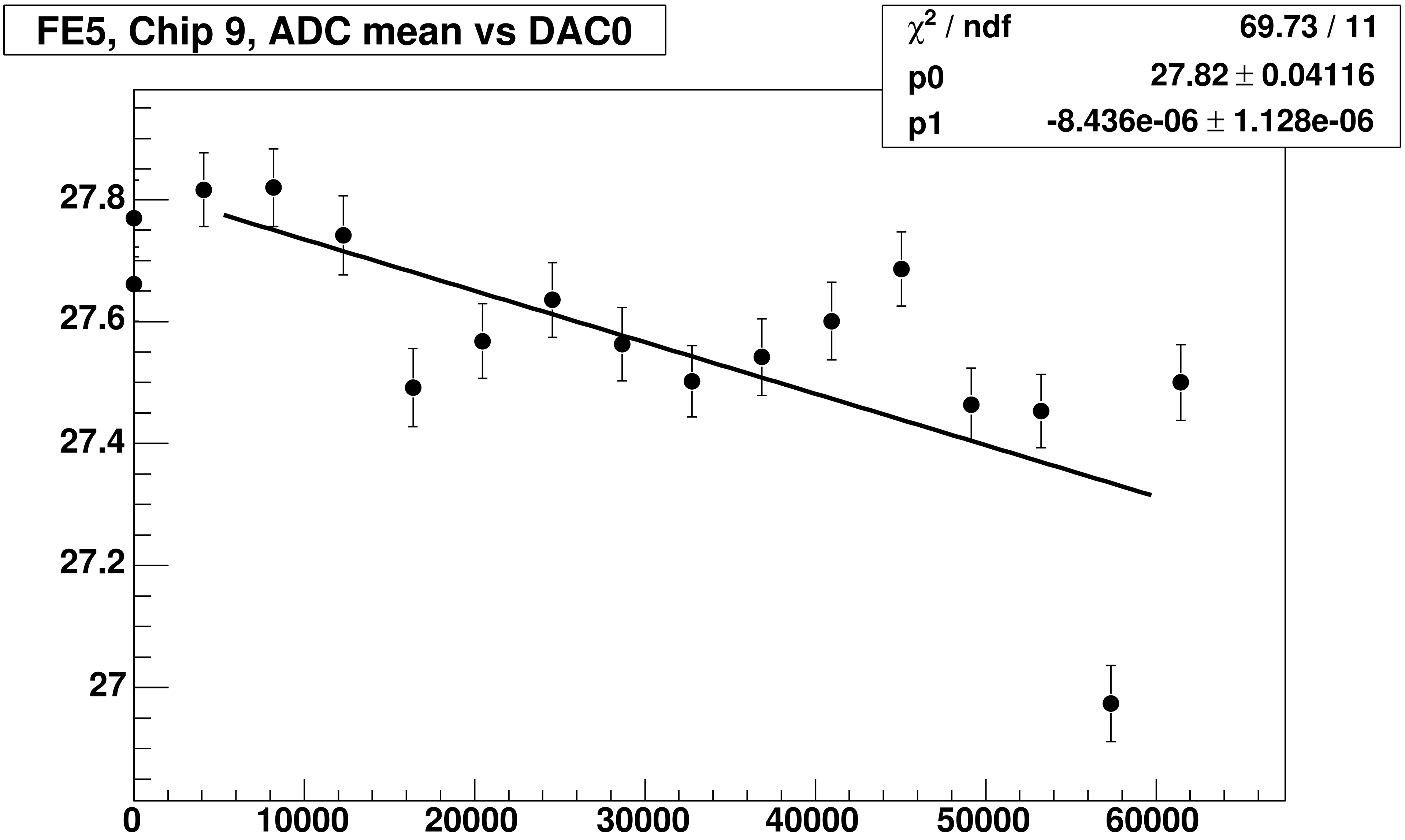


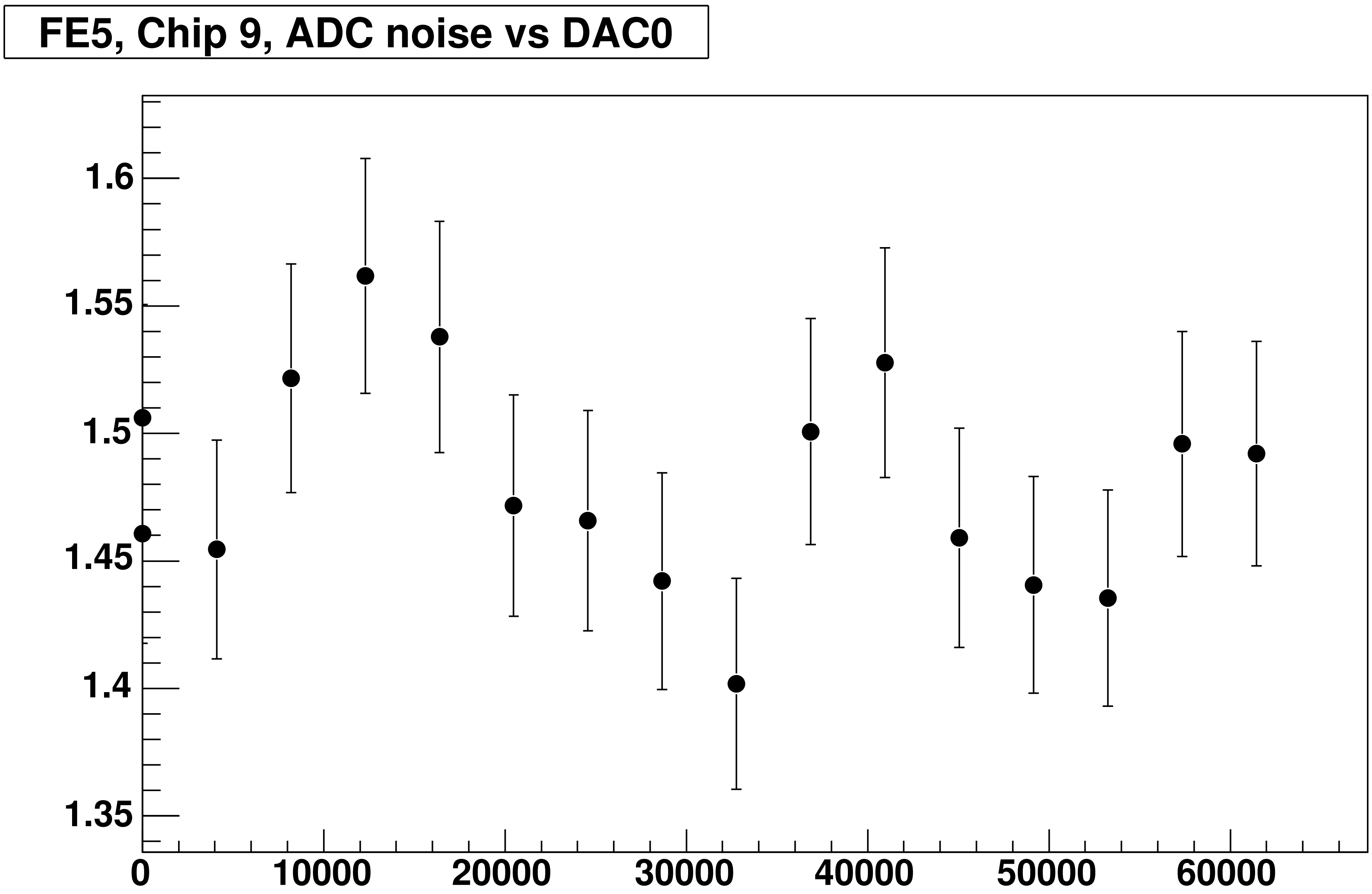
FE5, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

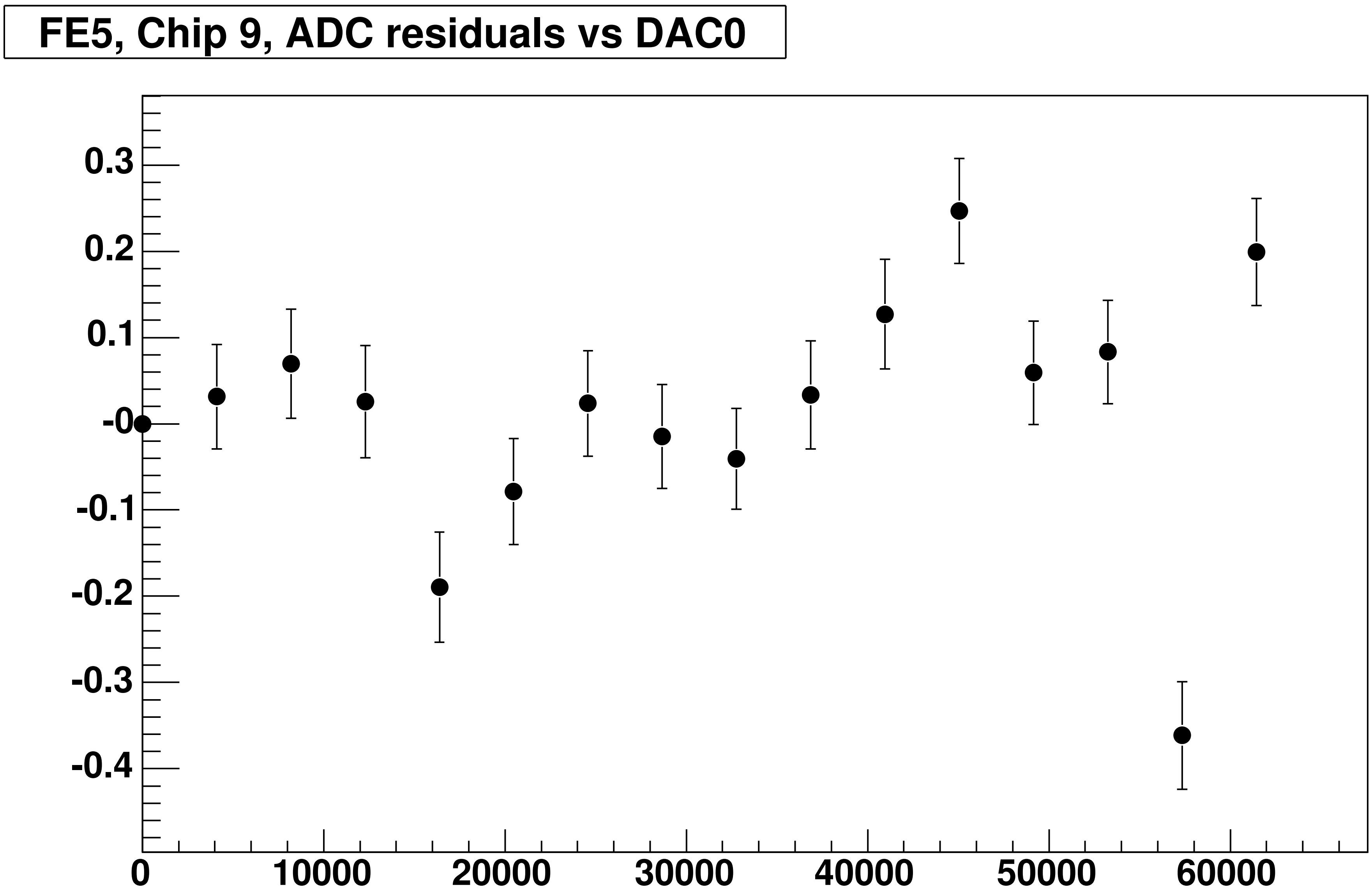

FE5, Chip 8, ADC mean vs DAC1
χ2 / ndf 667.1 / 11
p0 23.17 ± 0.04128
p1 0.4512 ± 1.356e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

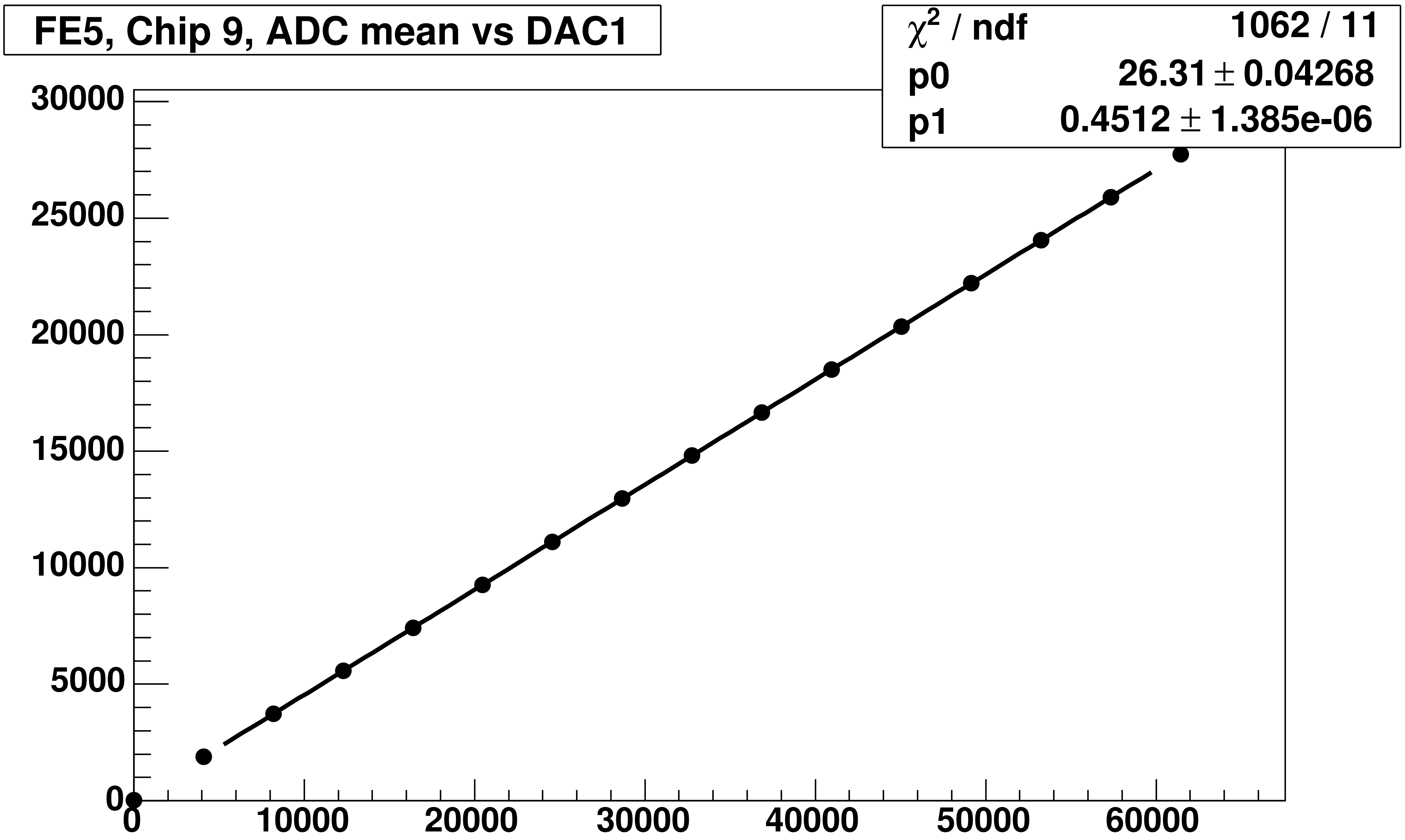

FE5, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

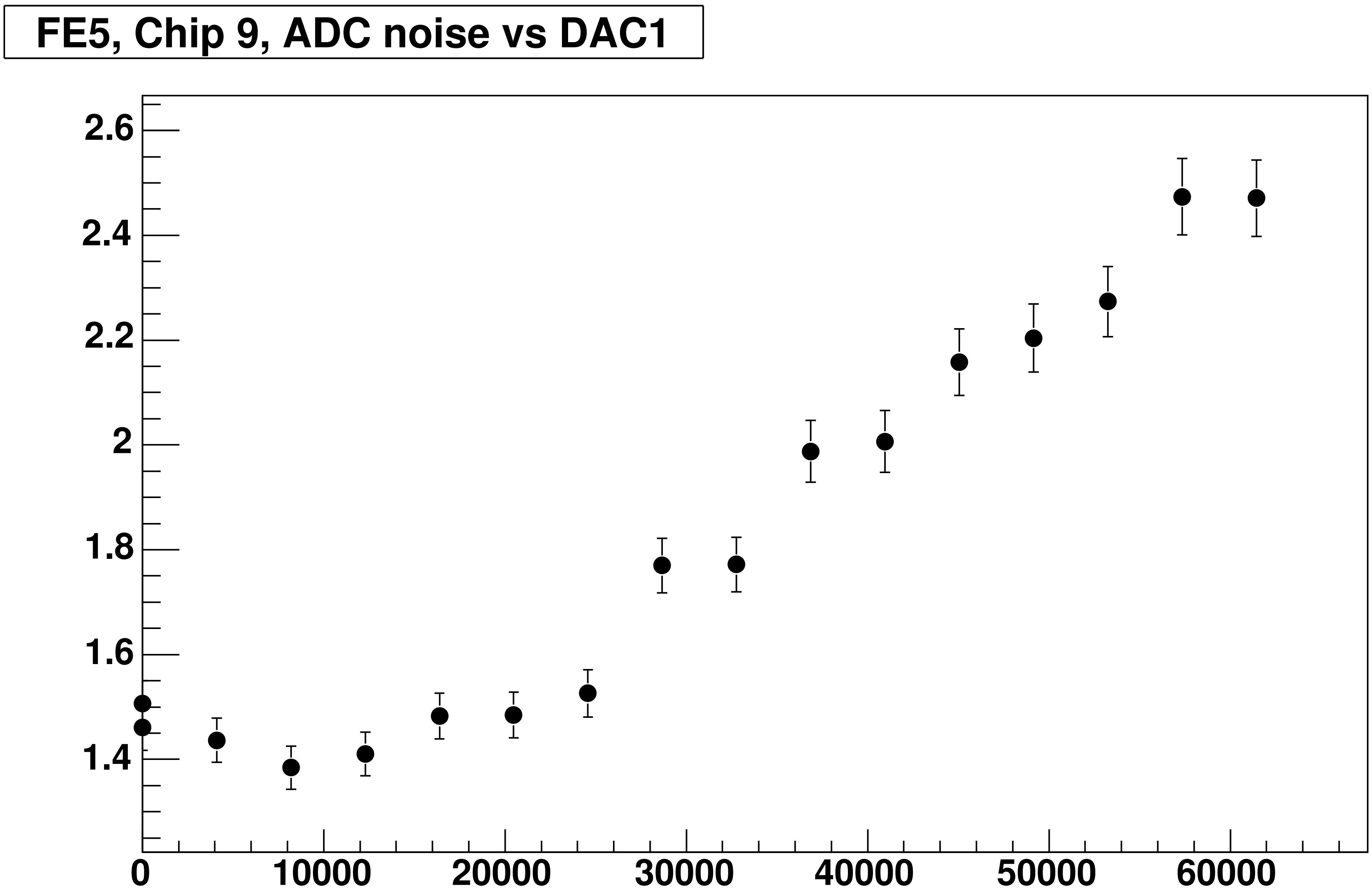

FE5, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE5, Chip 9, ADC mean vs DAC0
χ2 / ndf 69.73 / 11
p0 27.82 ± 0.04116
p1 -8.436e-06 ± 1.128e-06
27.8
27.6
27.4
27.2
27
0
10000
20000
30000
40000
50000
60000

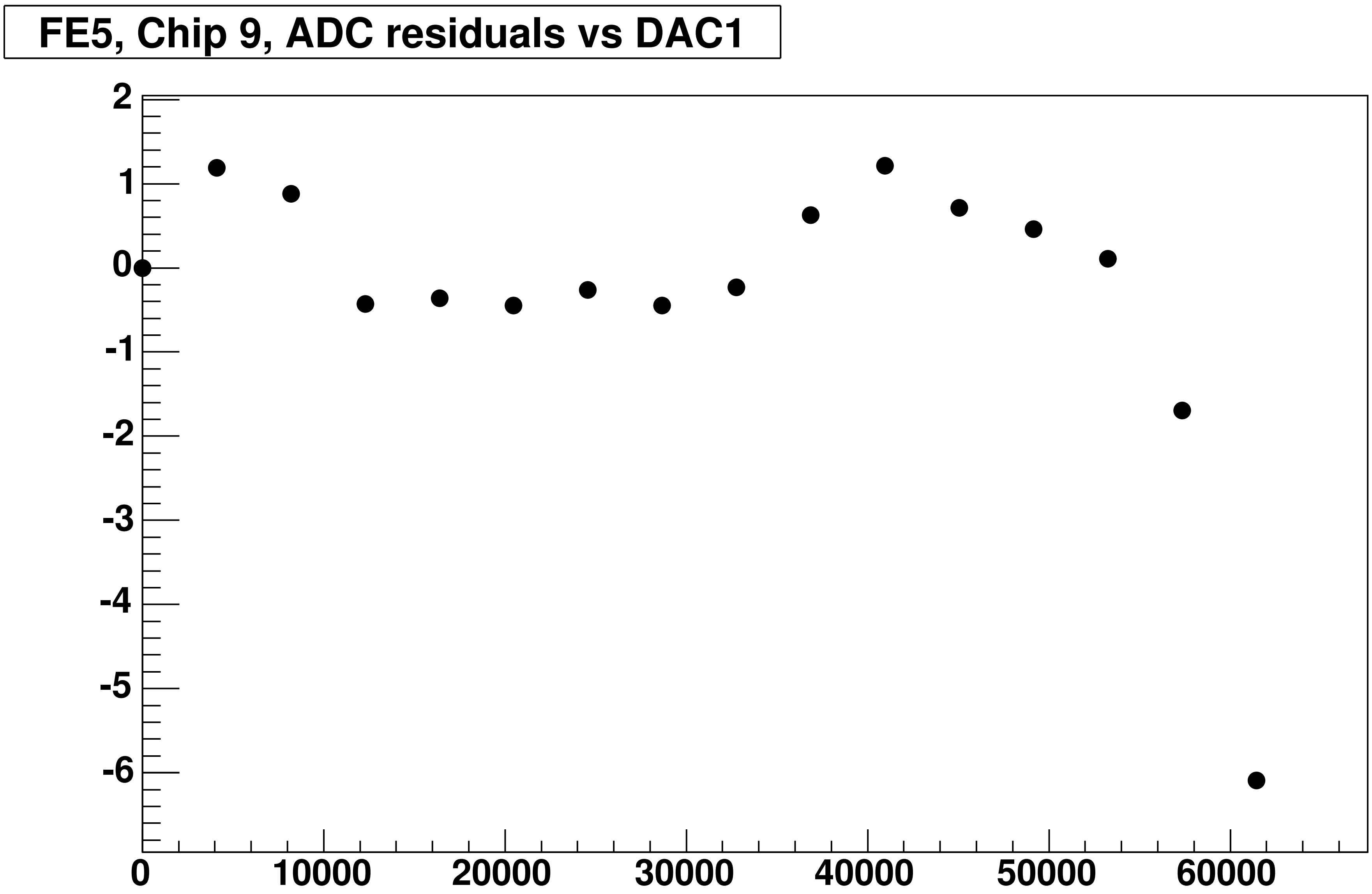

FE5, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE5, 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

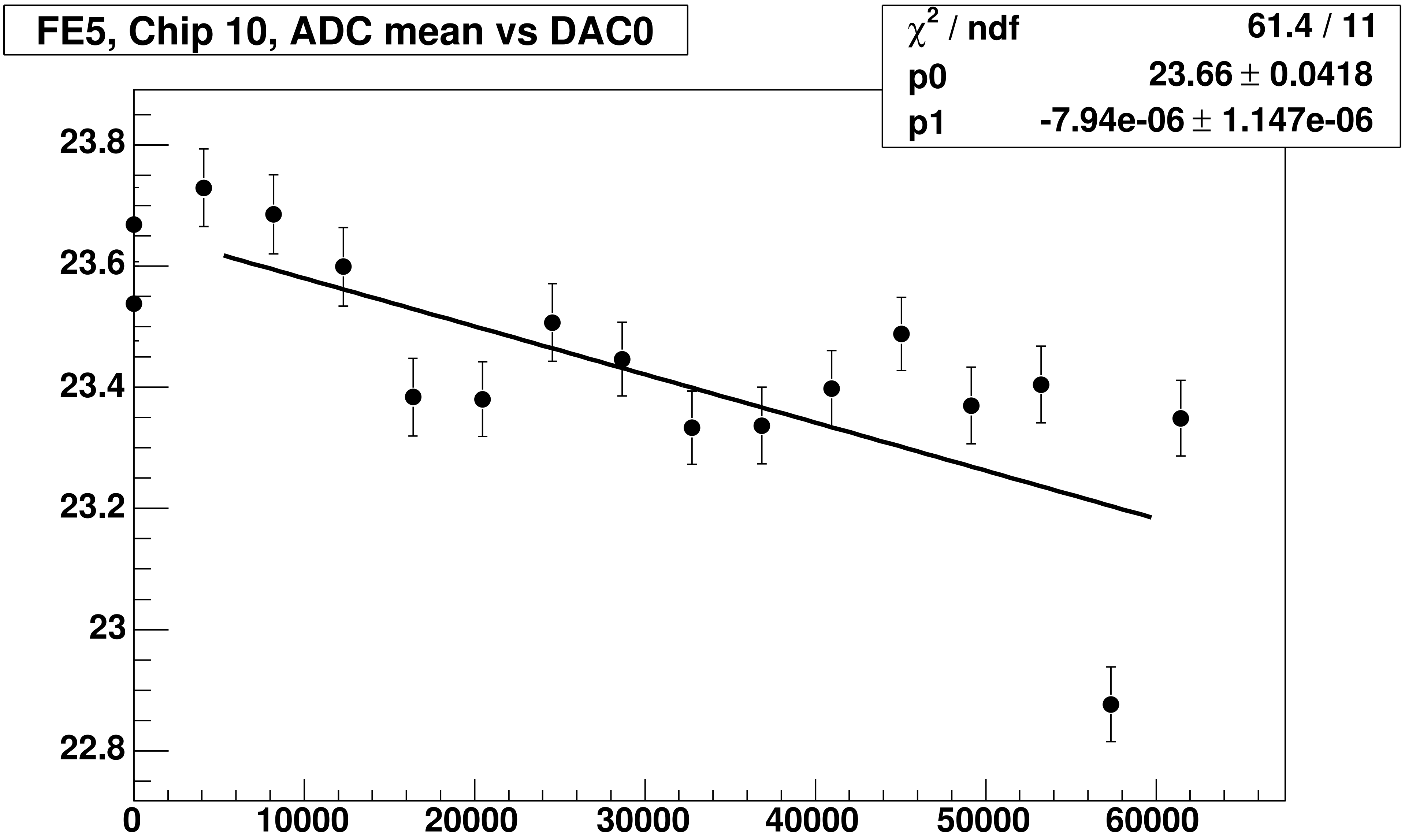

FE5, Chip 9, ADC mean vs DAC1
χ2 / ndf 1062 / 11
p0 26.31 ± 0.04268
p1 0.4512 ± 1.385e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



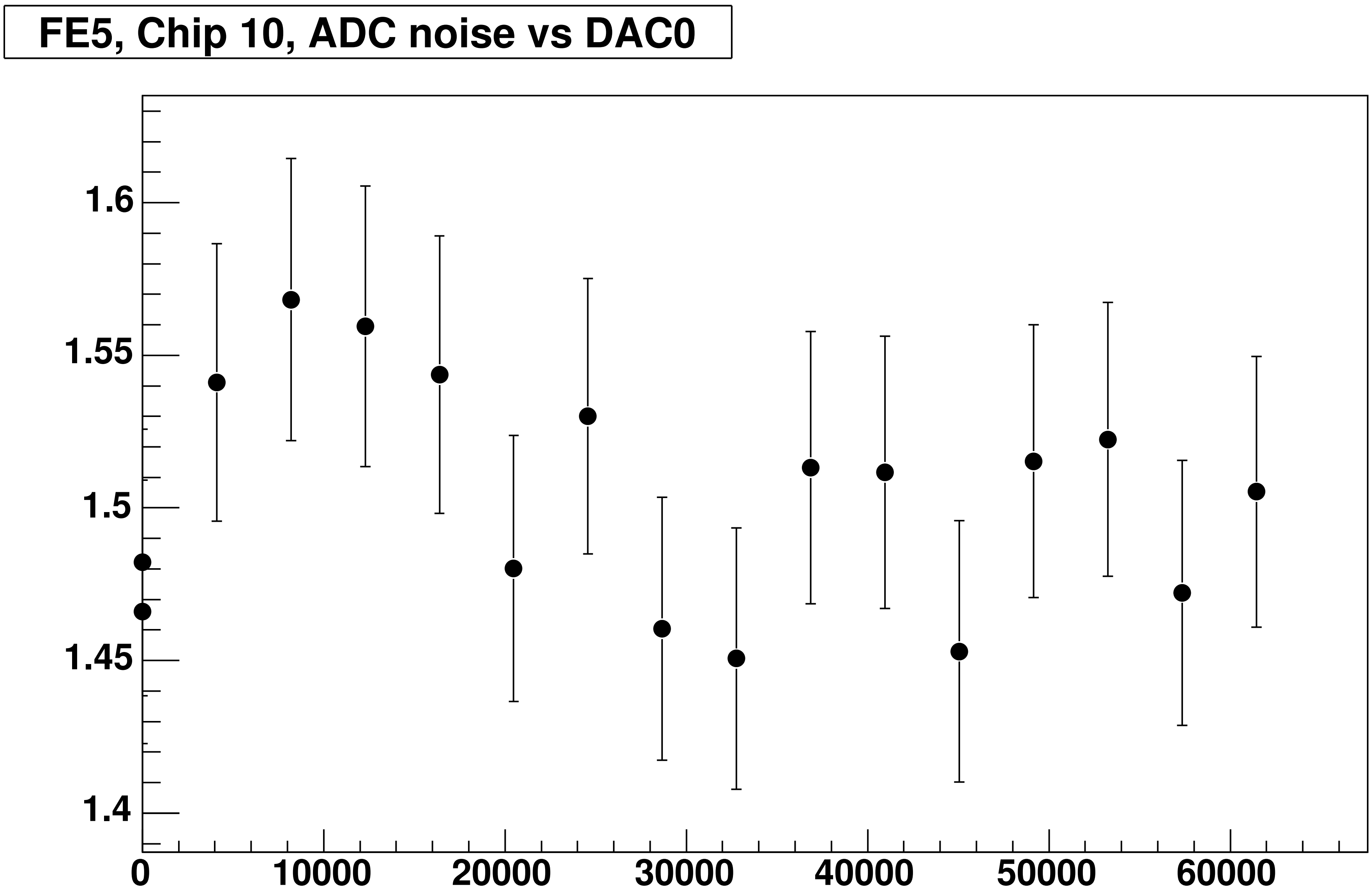
FE5, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

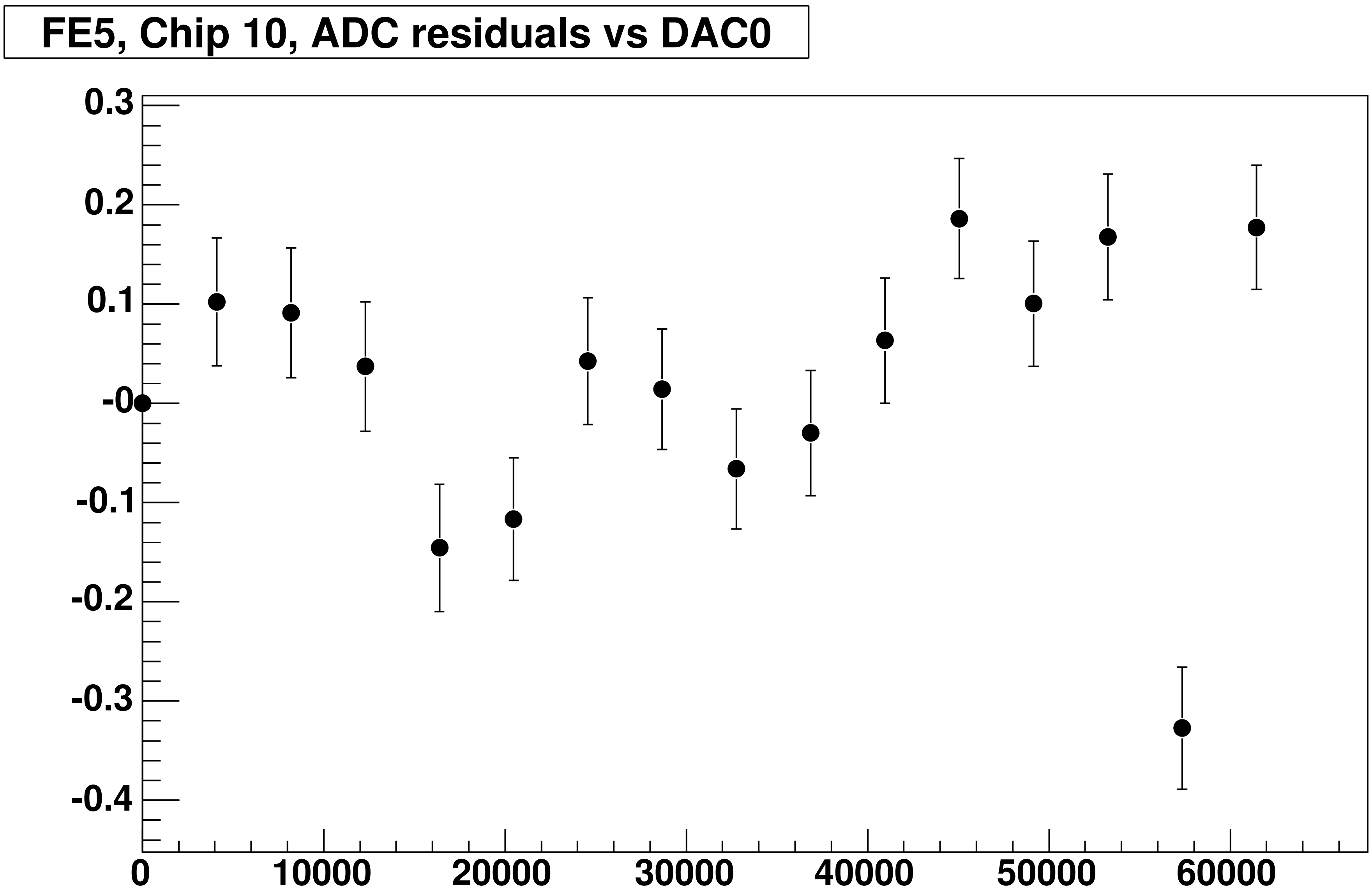


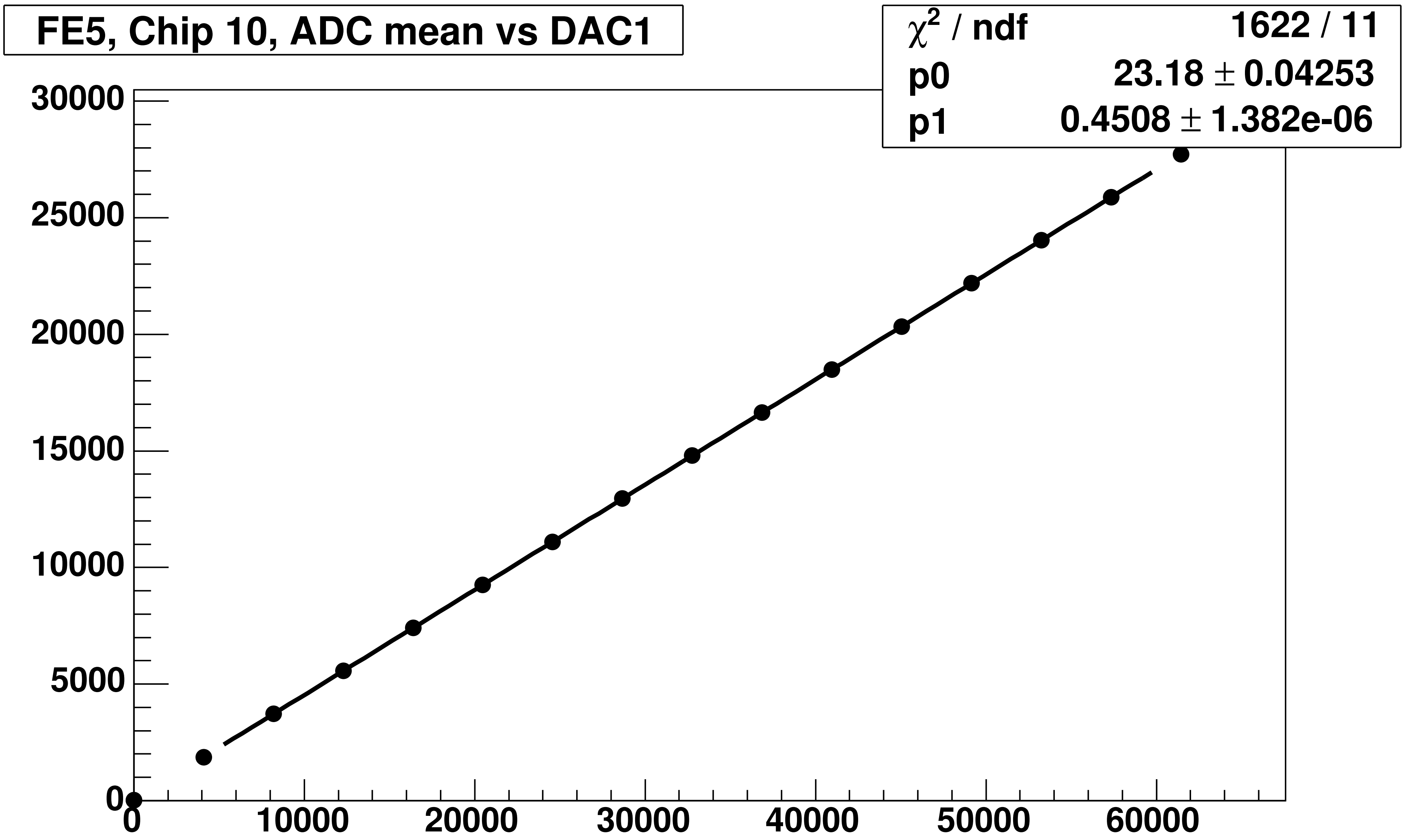
FE5, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

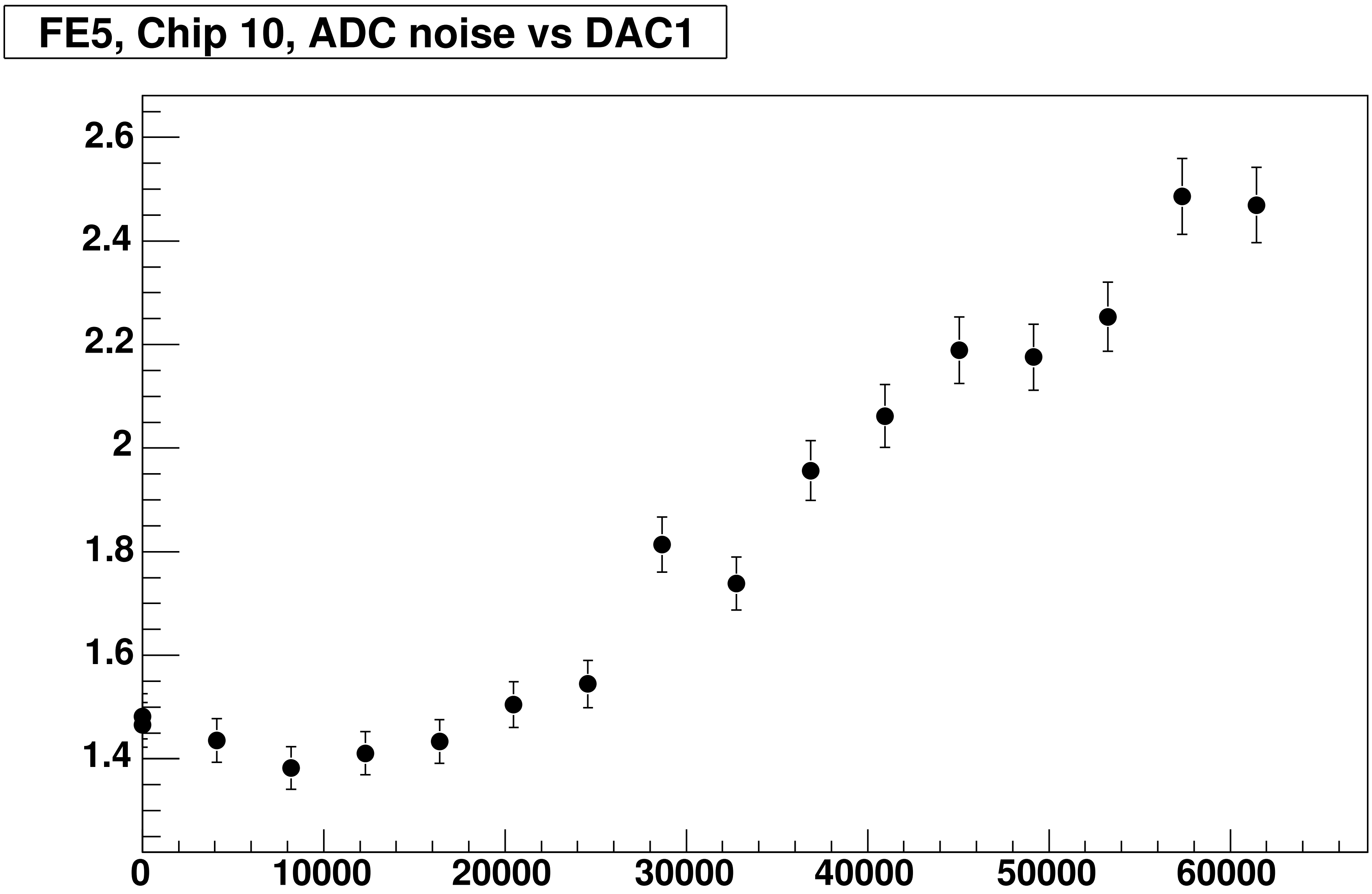


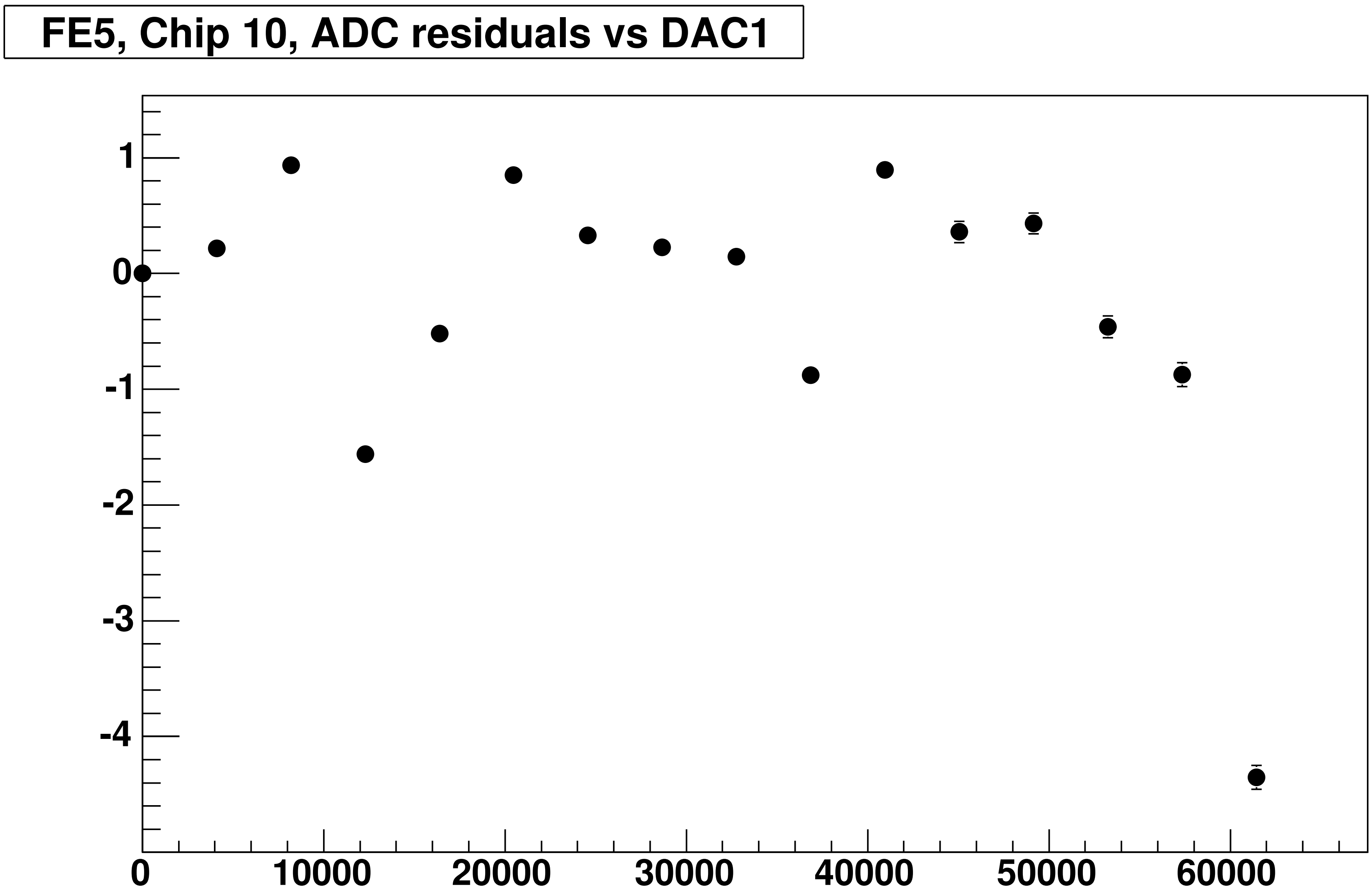
FE5, Chip 10, ADC mean vs DAC0
χ^2 / ndf 61.4 / 11
p0 23.66 ± 0.0418
p1 -7.94e-06 ± 1.147e-06
23.8
23.6
23.4
23.2
23
22.8
0
10000
20000
30000
40000
50000
60000

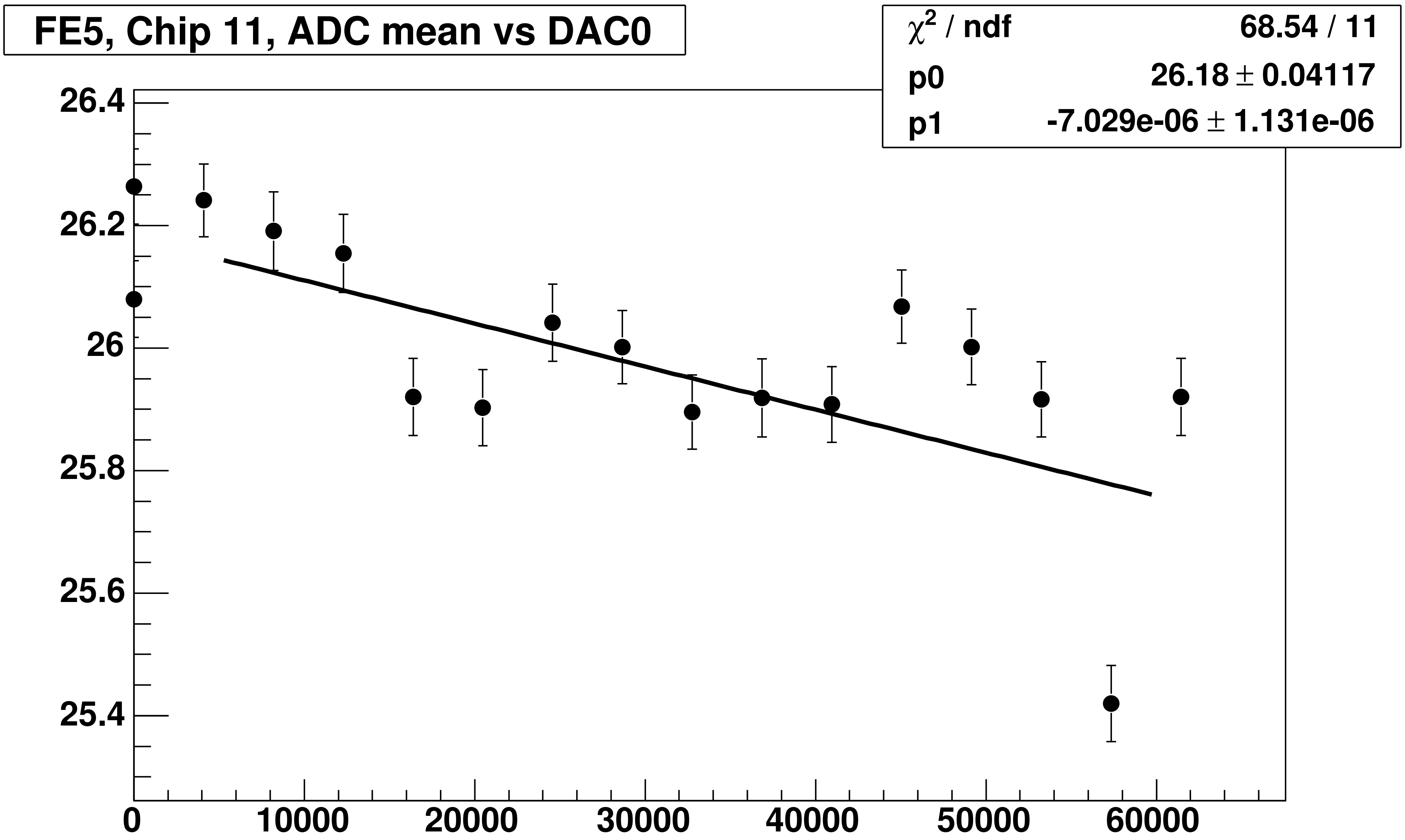

FE5, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


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

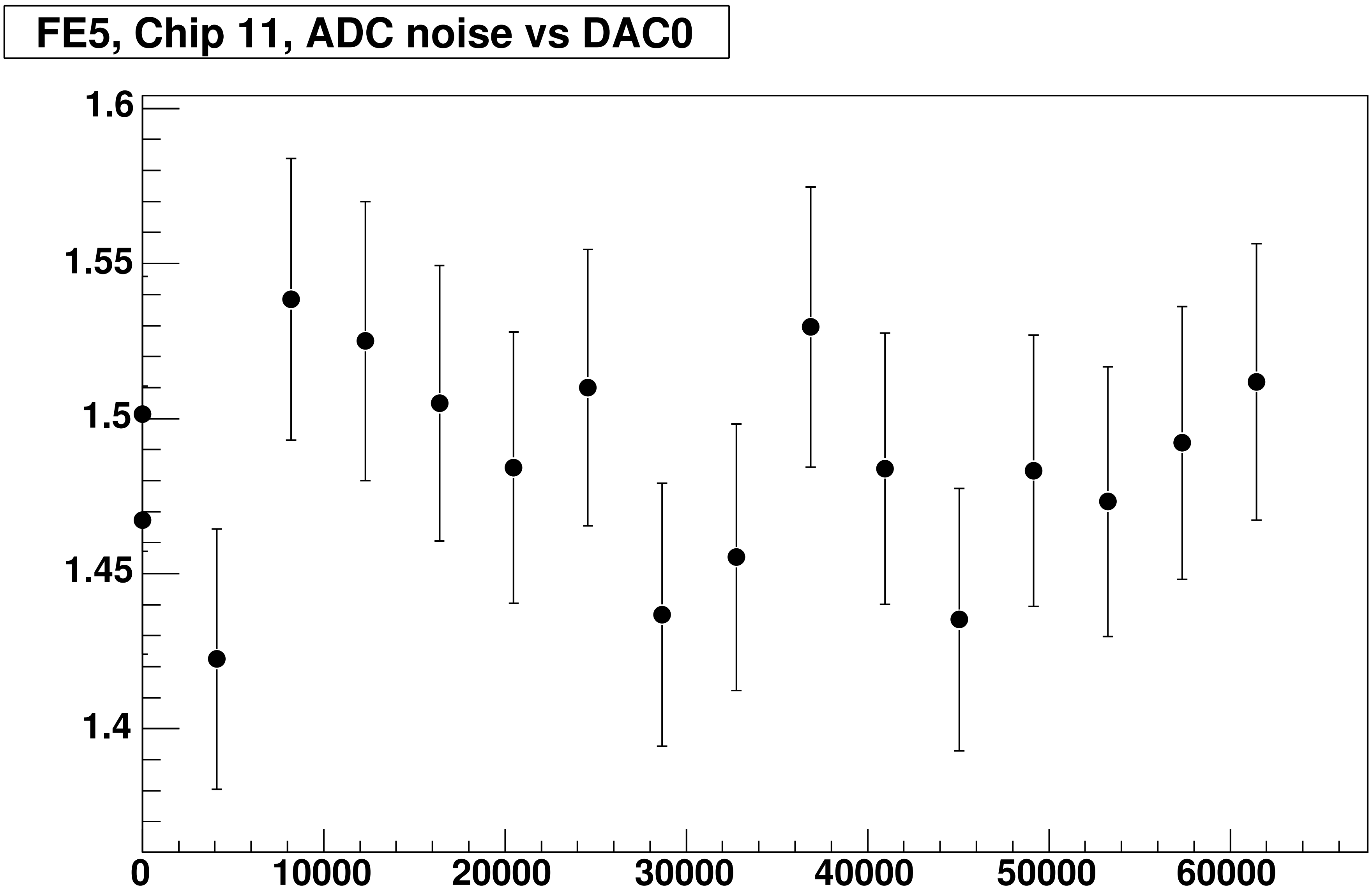

FE5, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1622 / 11
p0 23.18 ± 0.04253
p1 0.4508 ± 1.382e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

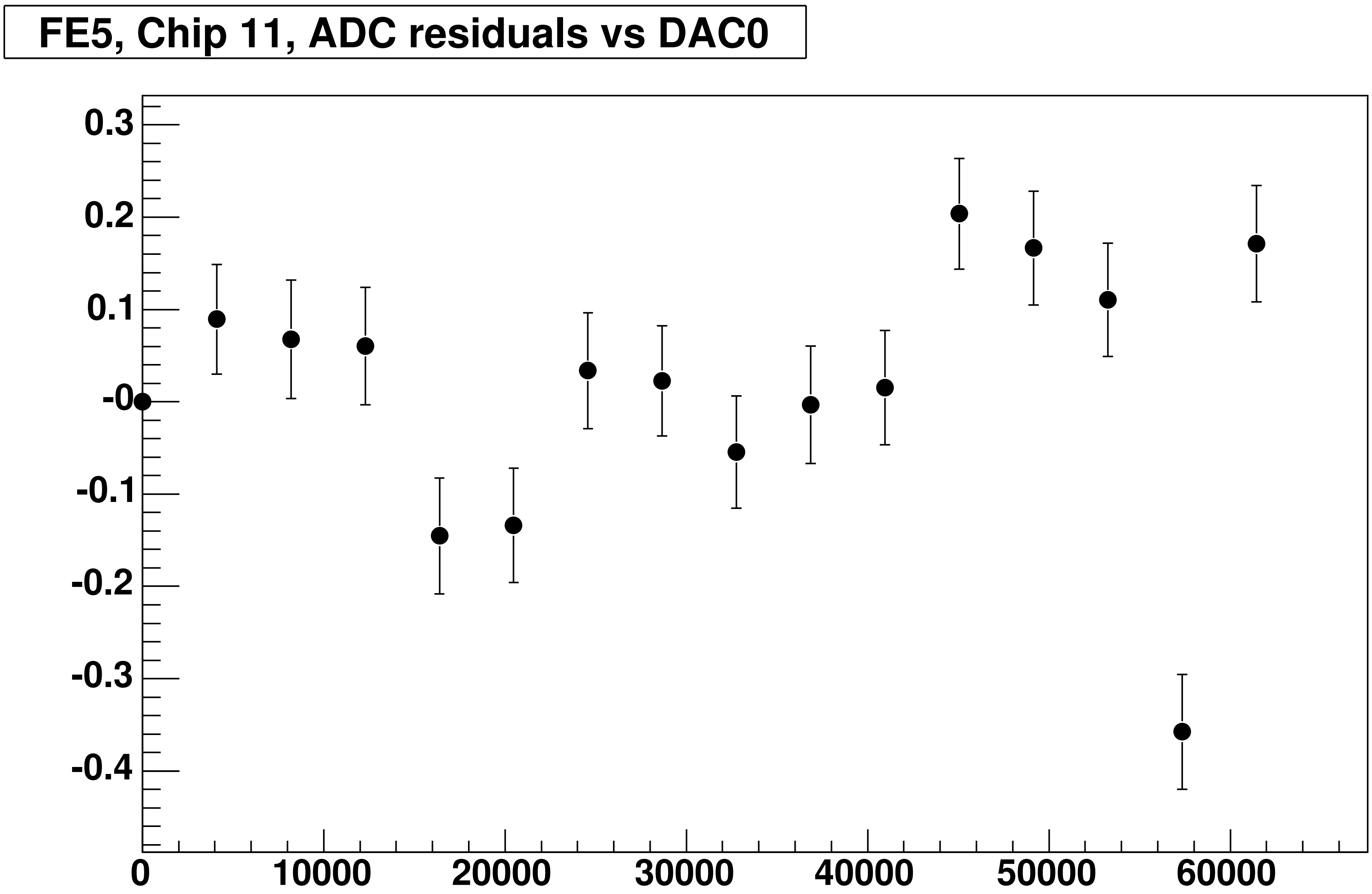

FE5, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

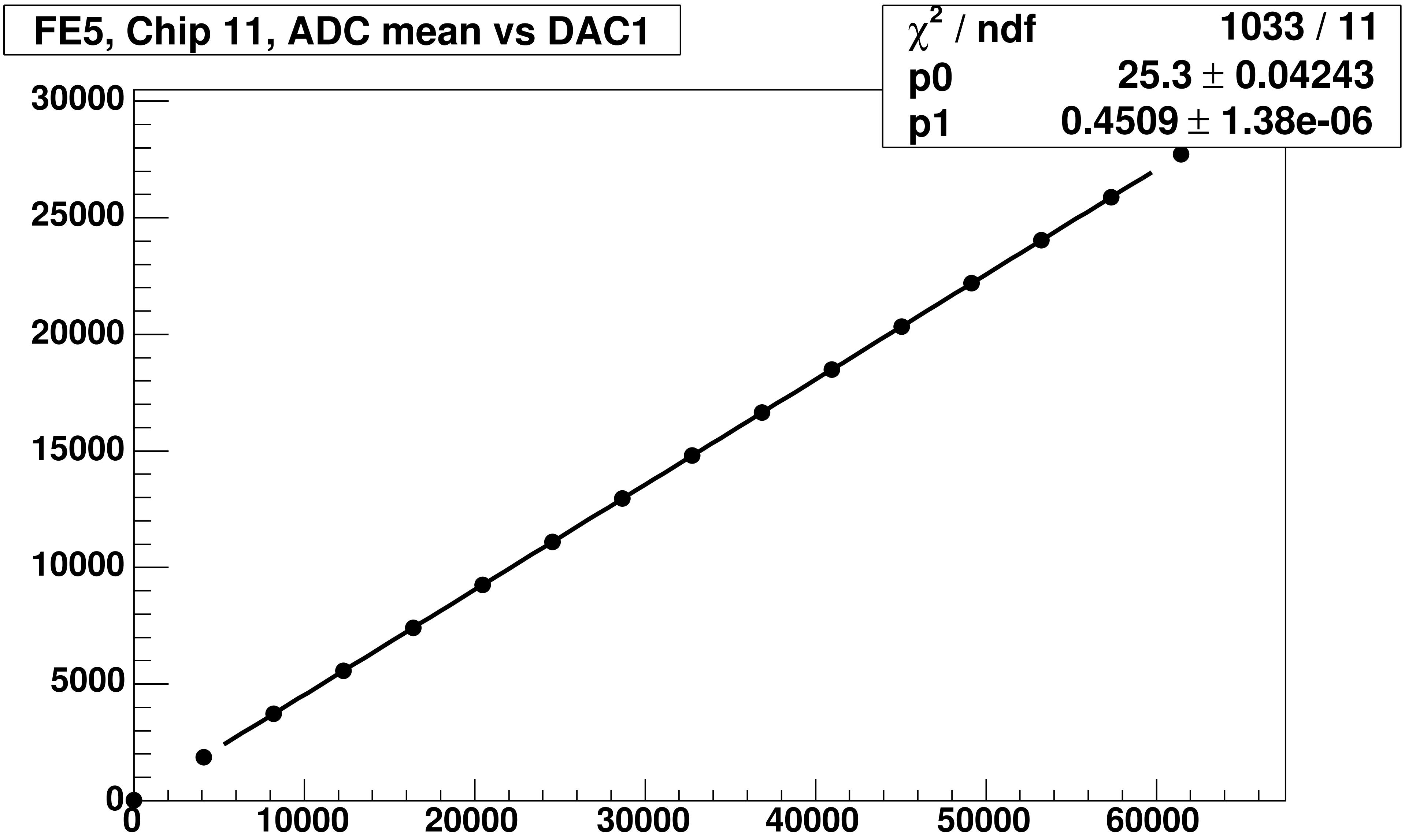

FE5, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



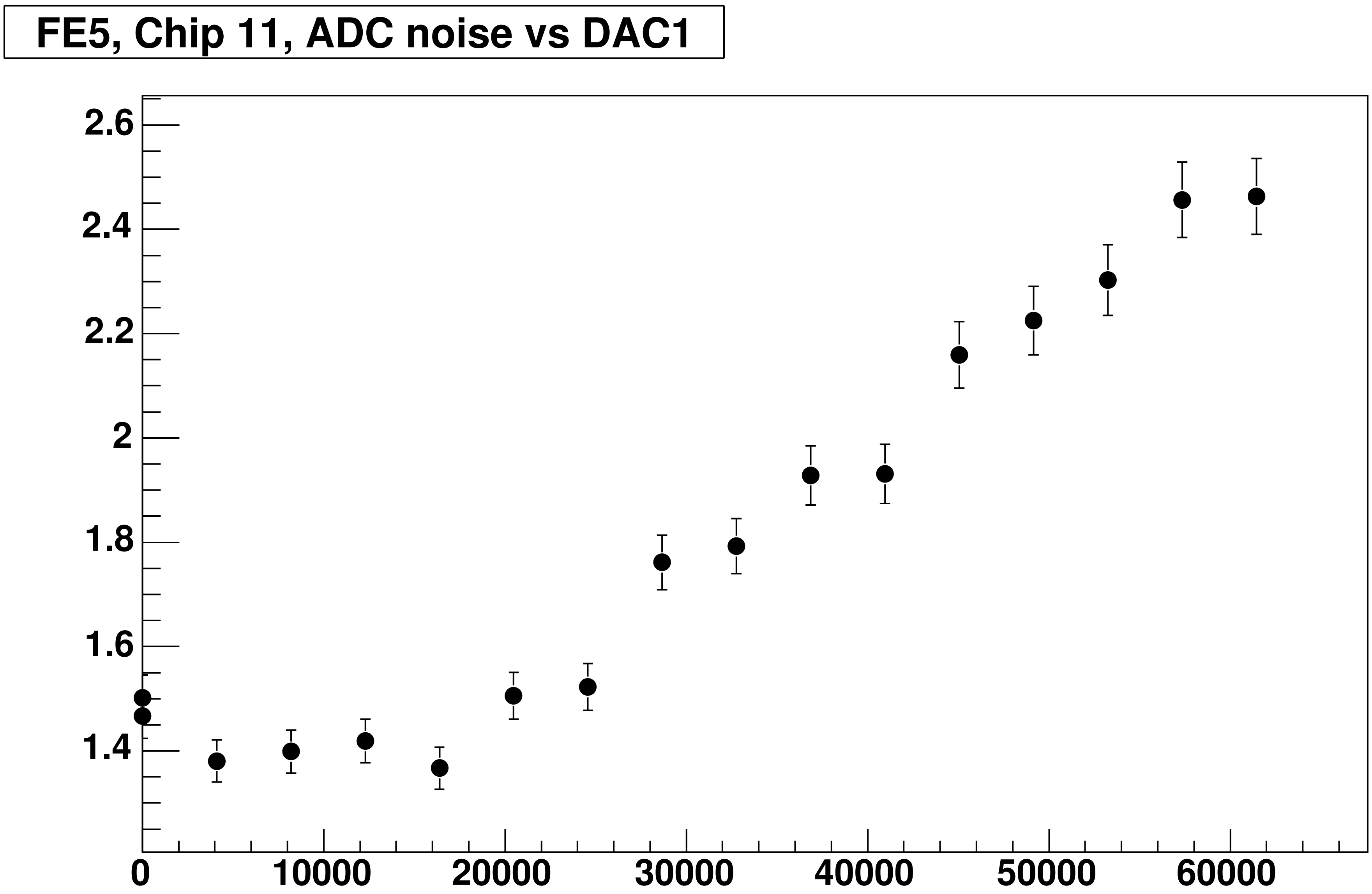
FE5, Chip 11, ADC mean vs DAC0
χ^2 / ndf 68.54 / 11
p0 26.18 ± 0.04117
p1 -7.029e-06 ± 1.131e-06
26.4
26.2
26
25.8
25.6
25.4
0
10000
20000
30000
40000
50000
60000

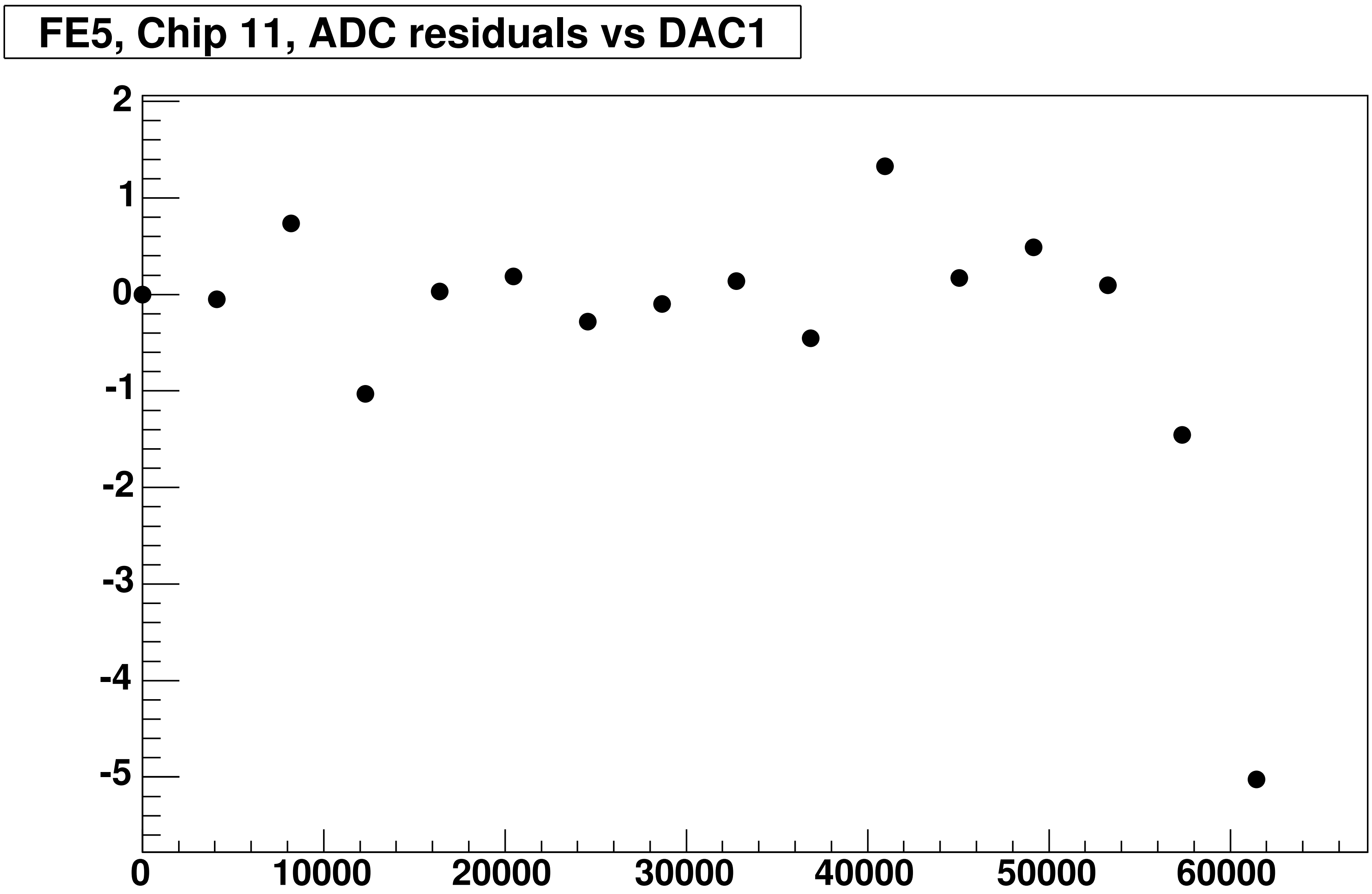

FE5, Chip 11, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

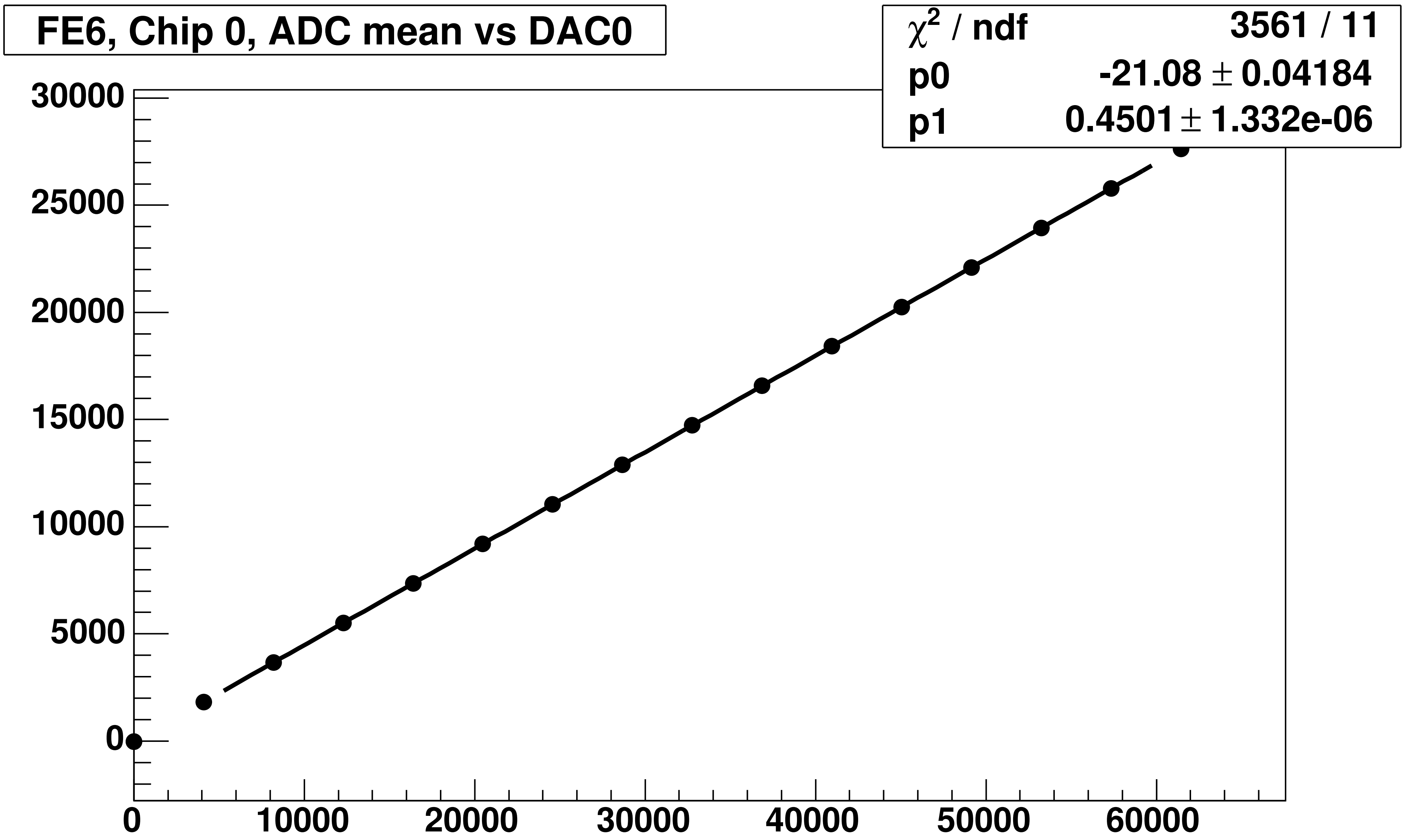

FE5, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



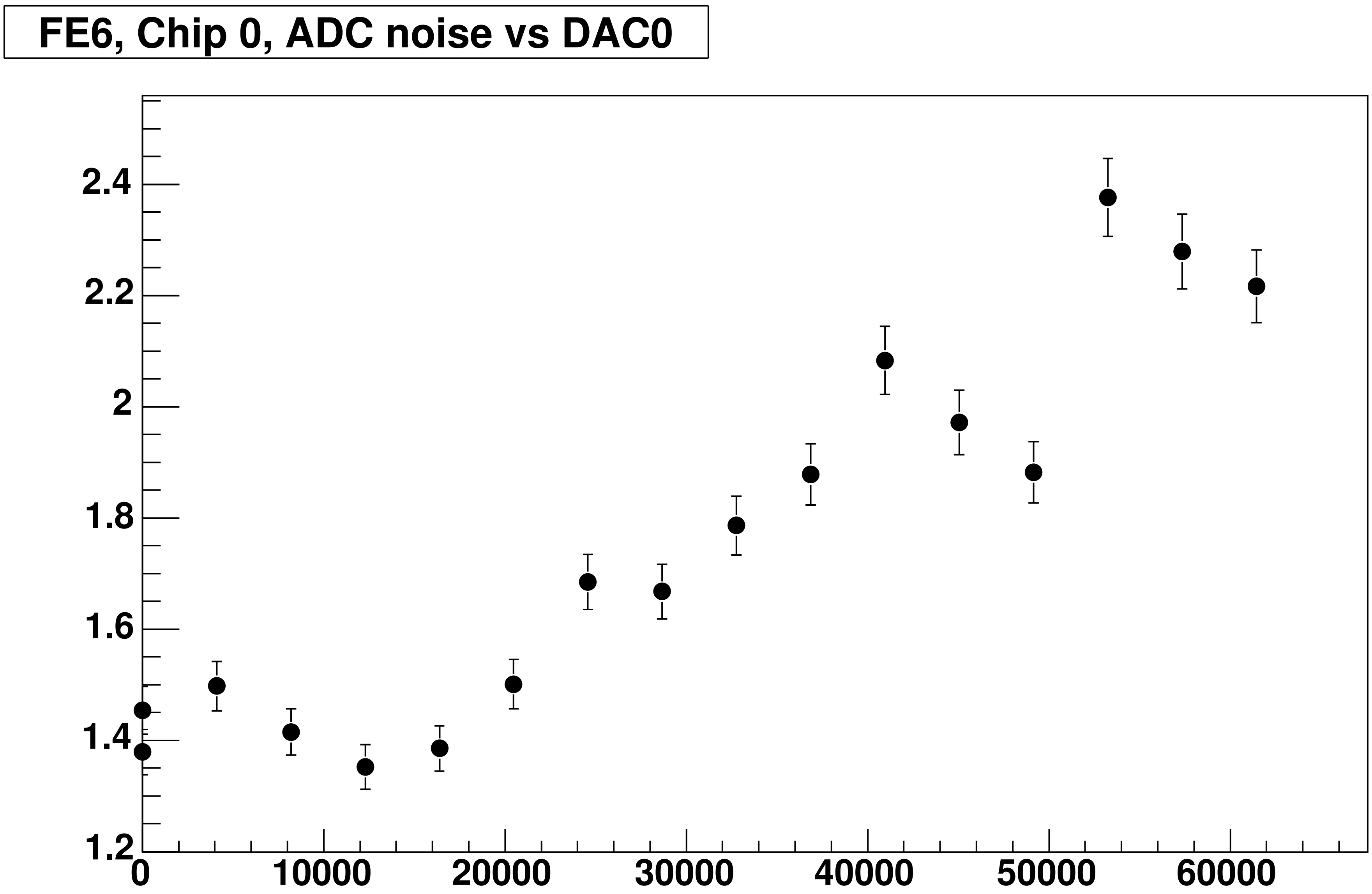
FE5, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1033 / 11
p0 25.3 ± 0.04243
p1 0.4509 ± 1.38e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

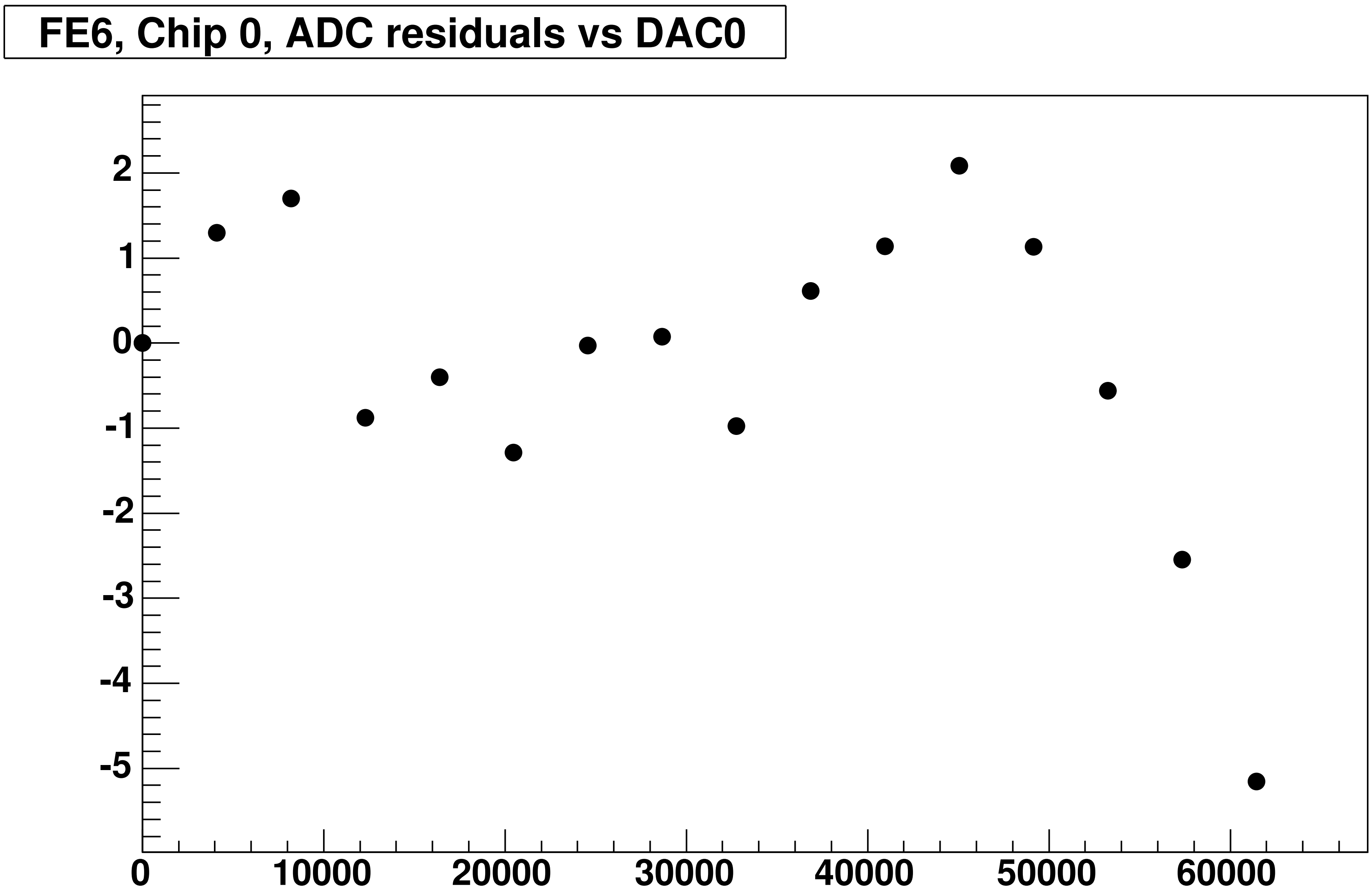

FE5, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

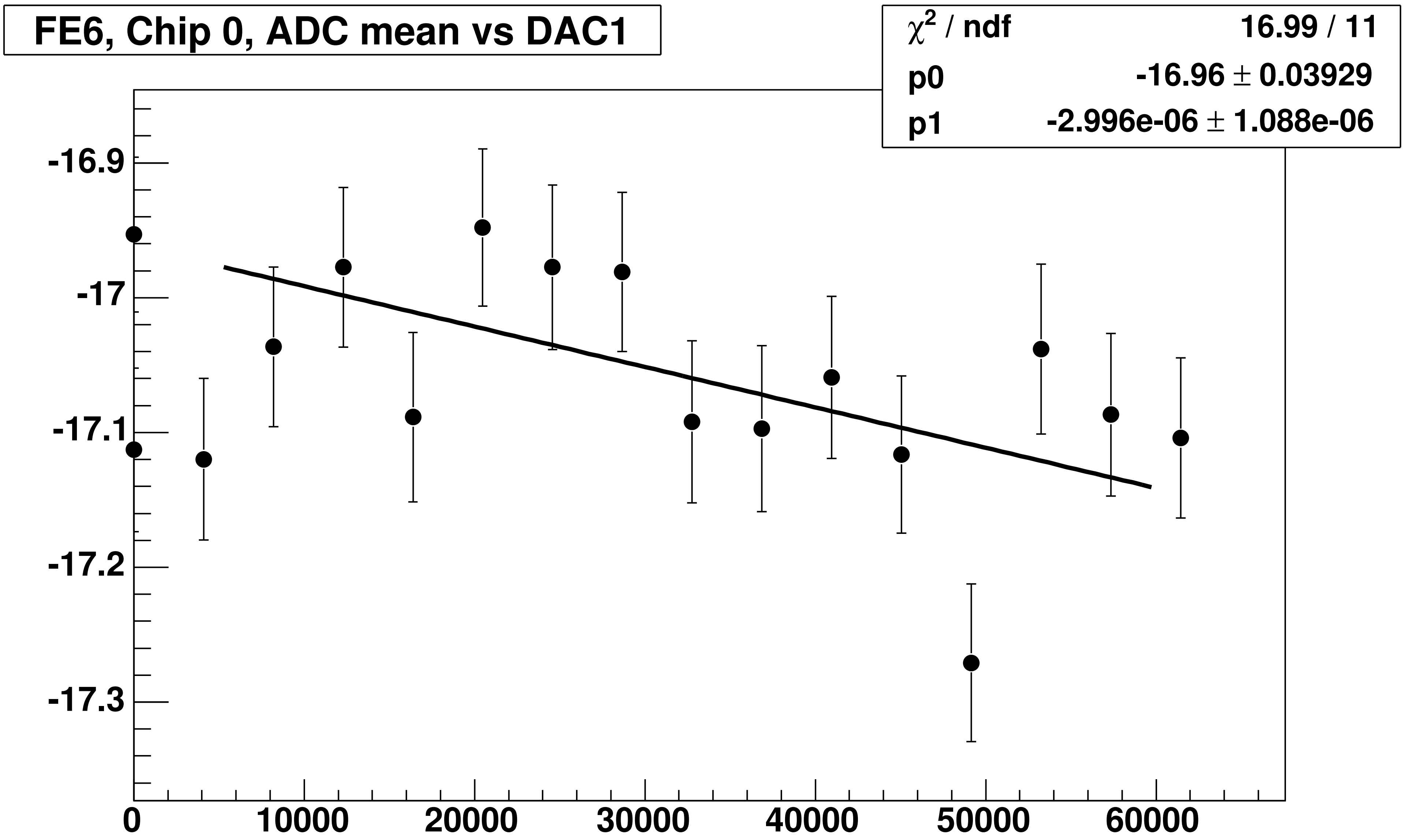


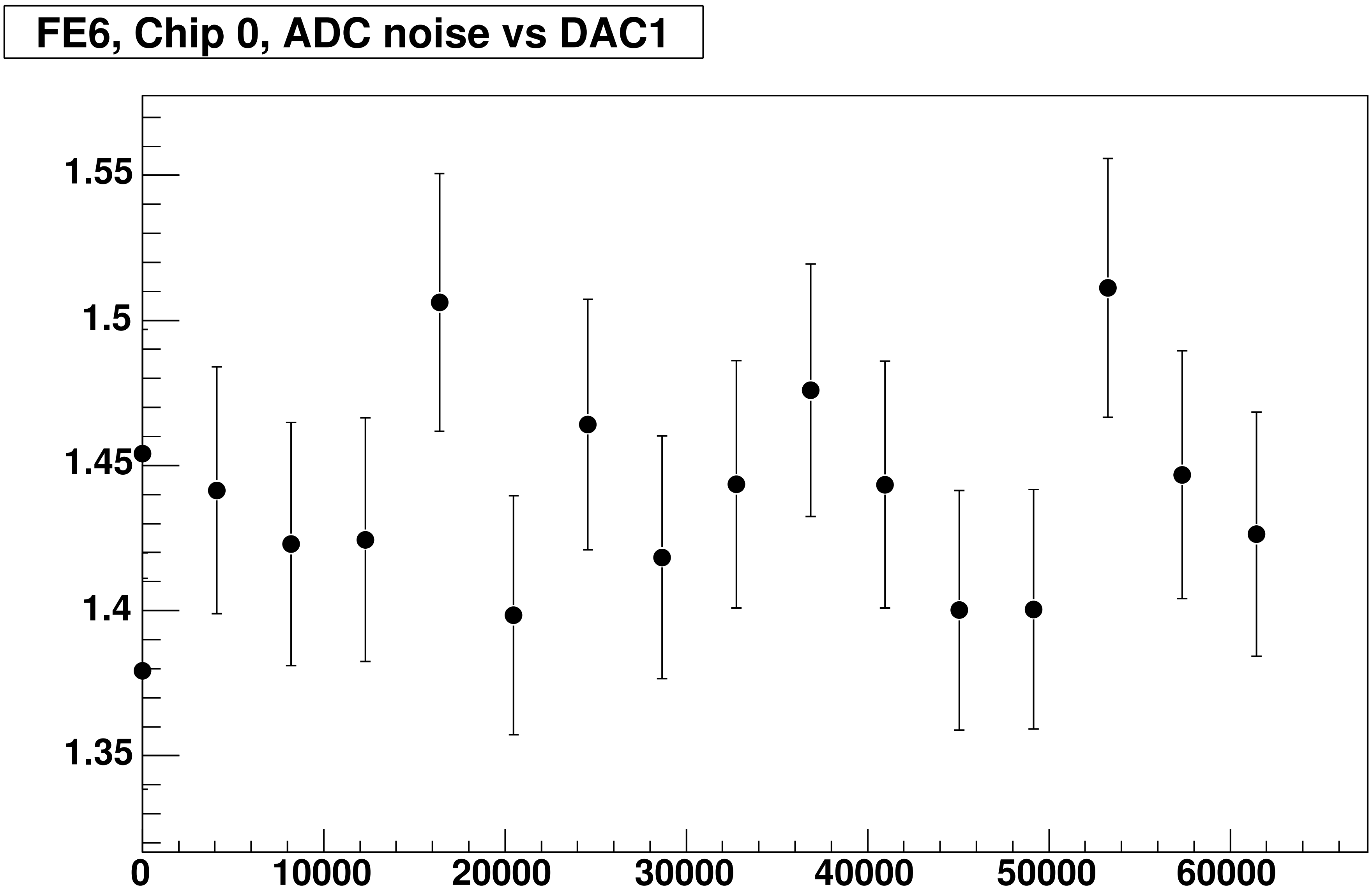
FE6, Chip 0, ADC mean vs DAC0
χ^2 / ndf 3561 / 11
p0 -21.08 ± 0.04184
p1 0.4501 ± 1.332e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

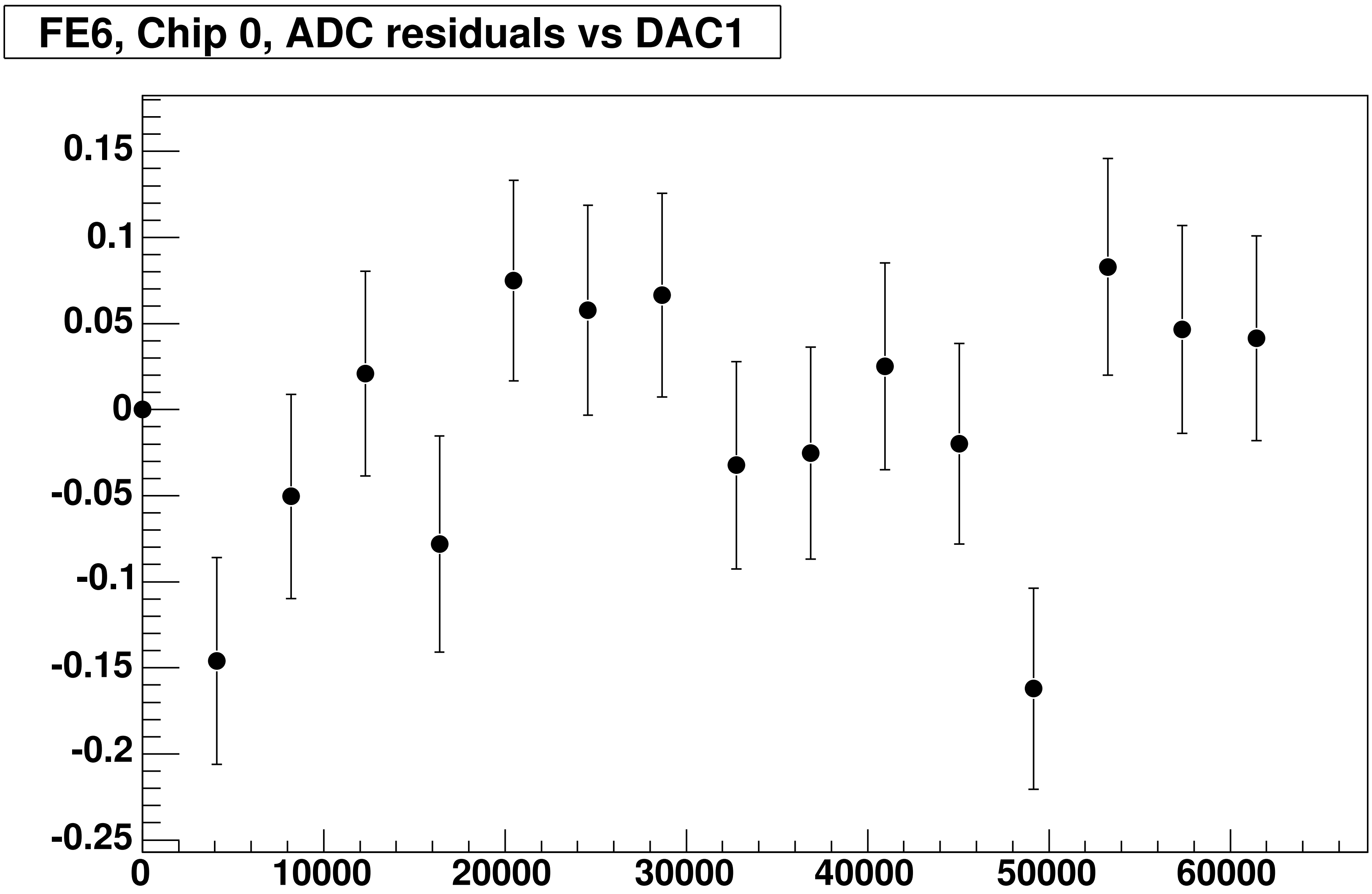


FE6, Chip 0, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

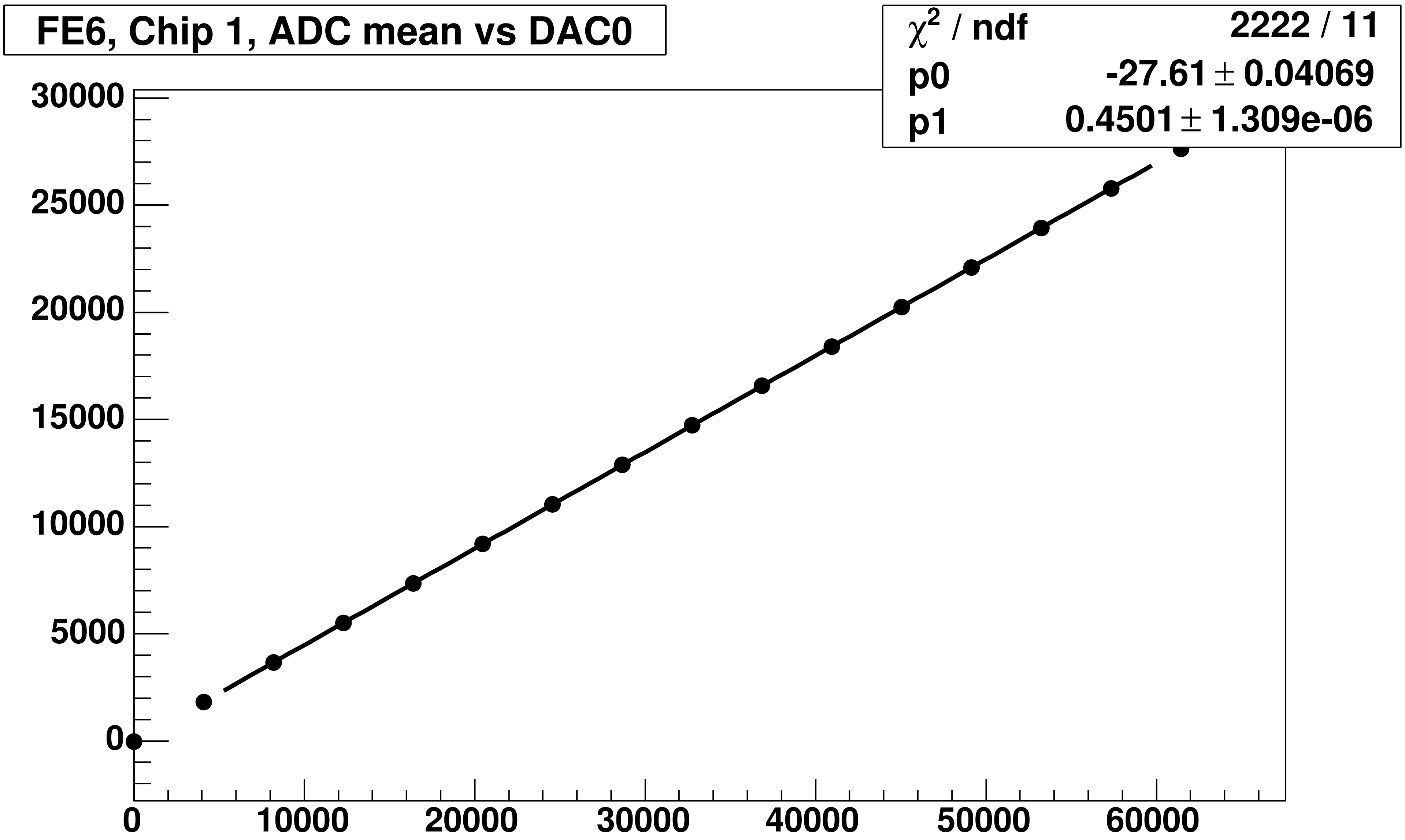

FE6, Chip 0, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE6, Chip 0, ADC mean vs DAC1
χ^2 / ndf 16.99 / 11
p0 -16.96 ± 0.03929
p1 -2.996e-06 ± 1.088e-06
-16.9
-17
-17.1
-17.2
-17.3
0
10000
20000
30000
40000
50000
60000

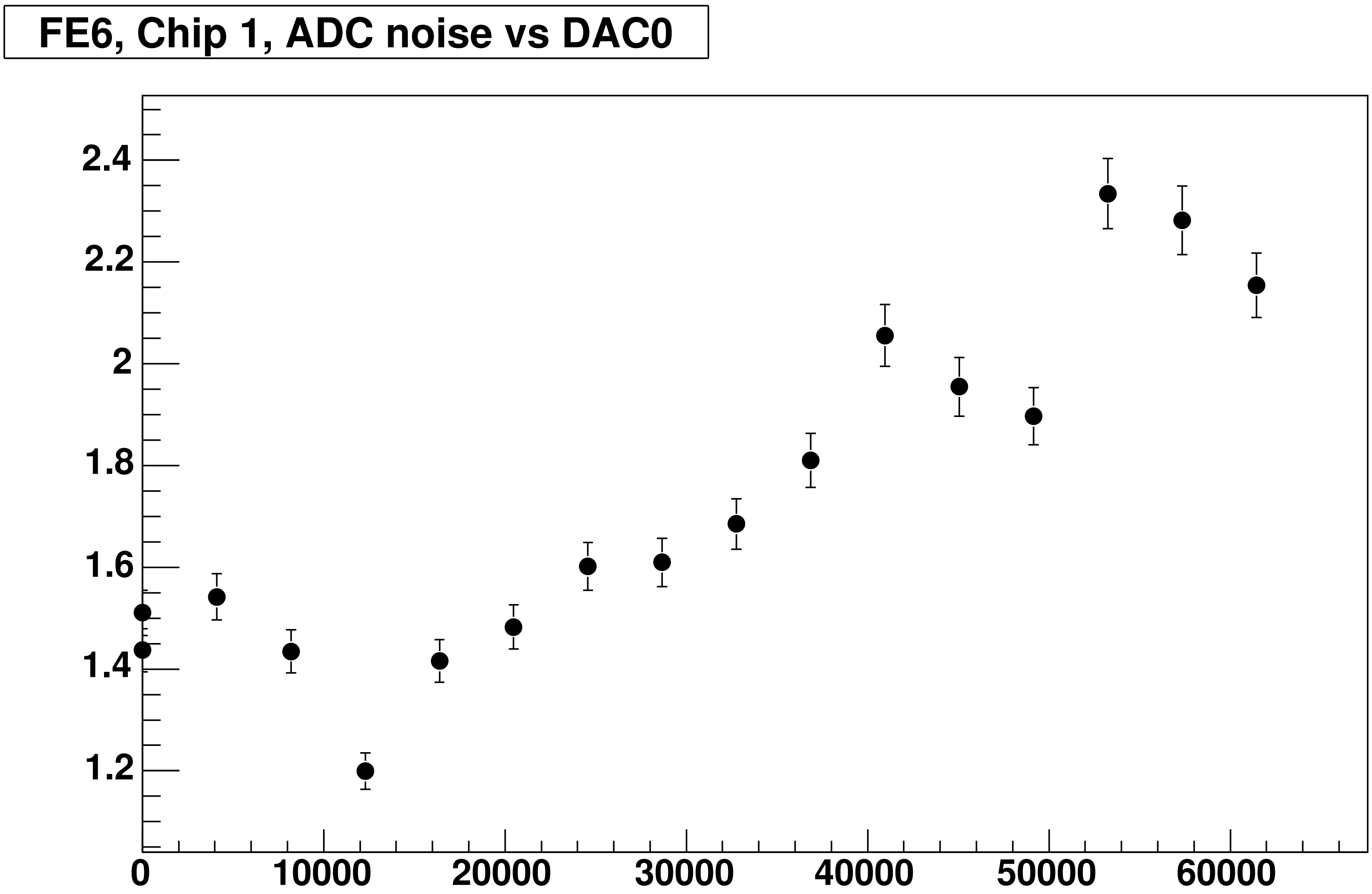

FE6, Chip 0, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

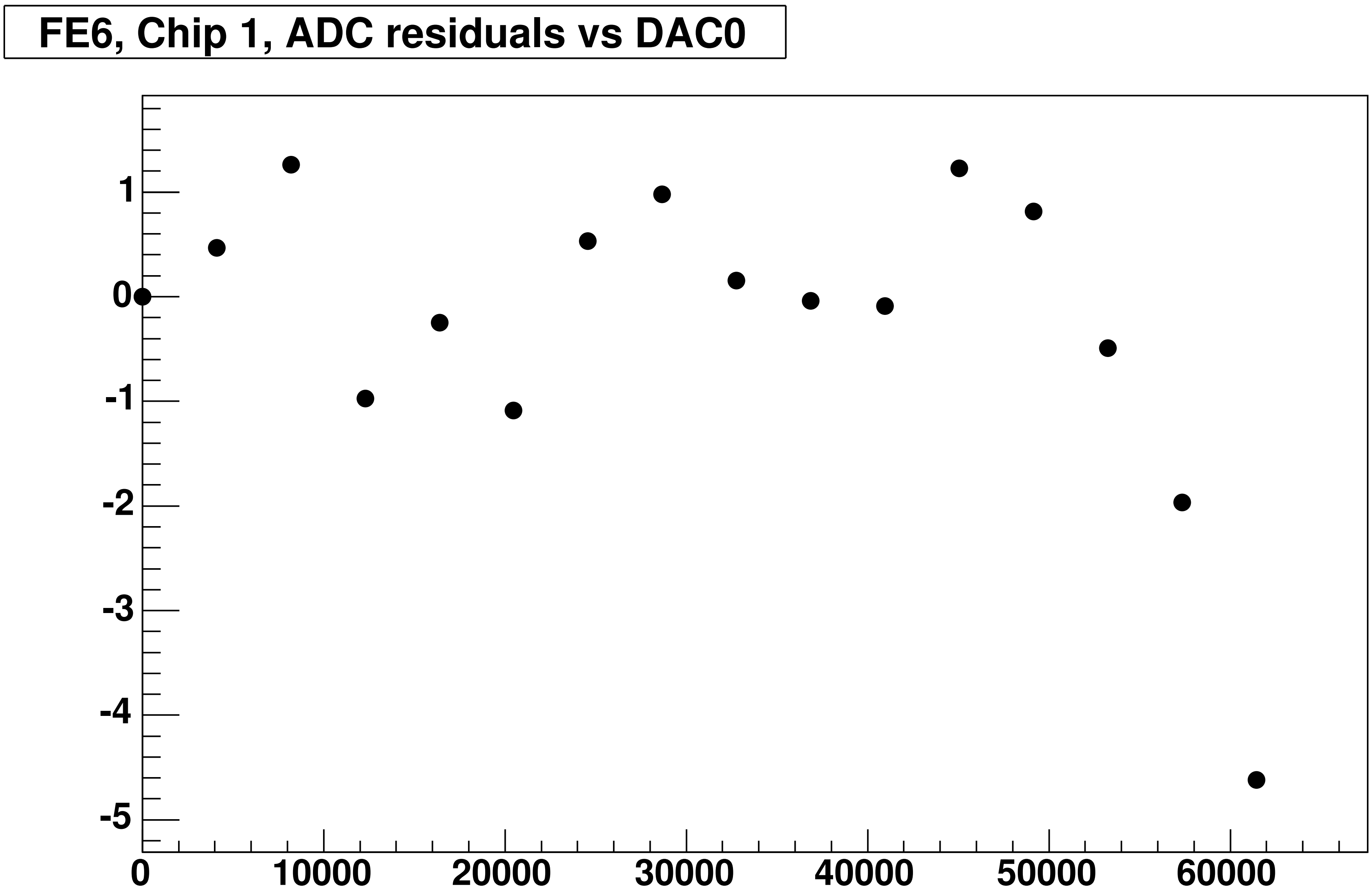


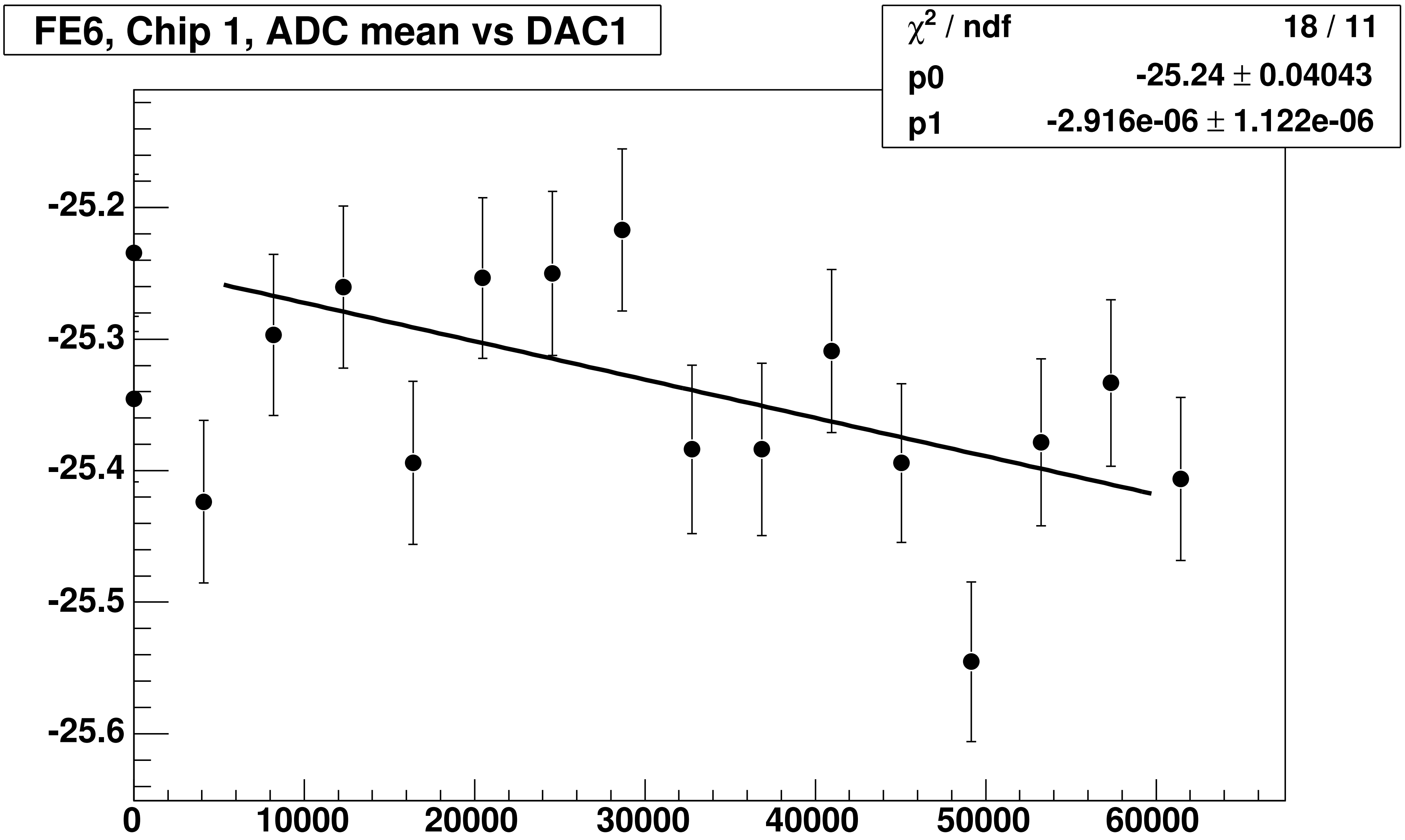
FE6, Chip 0, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

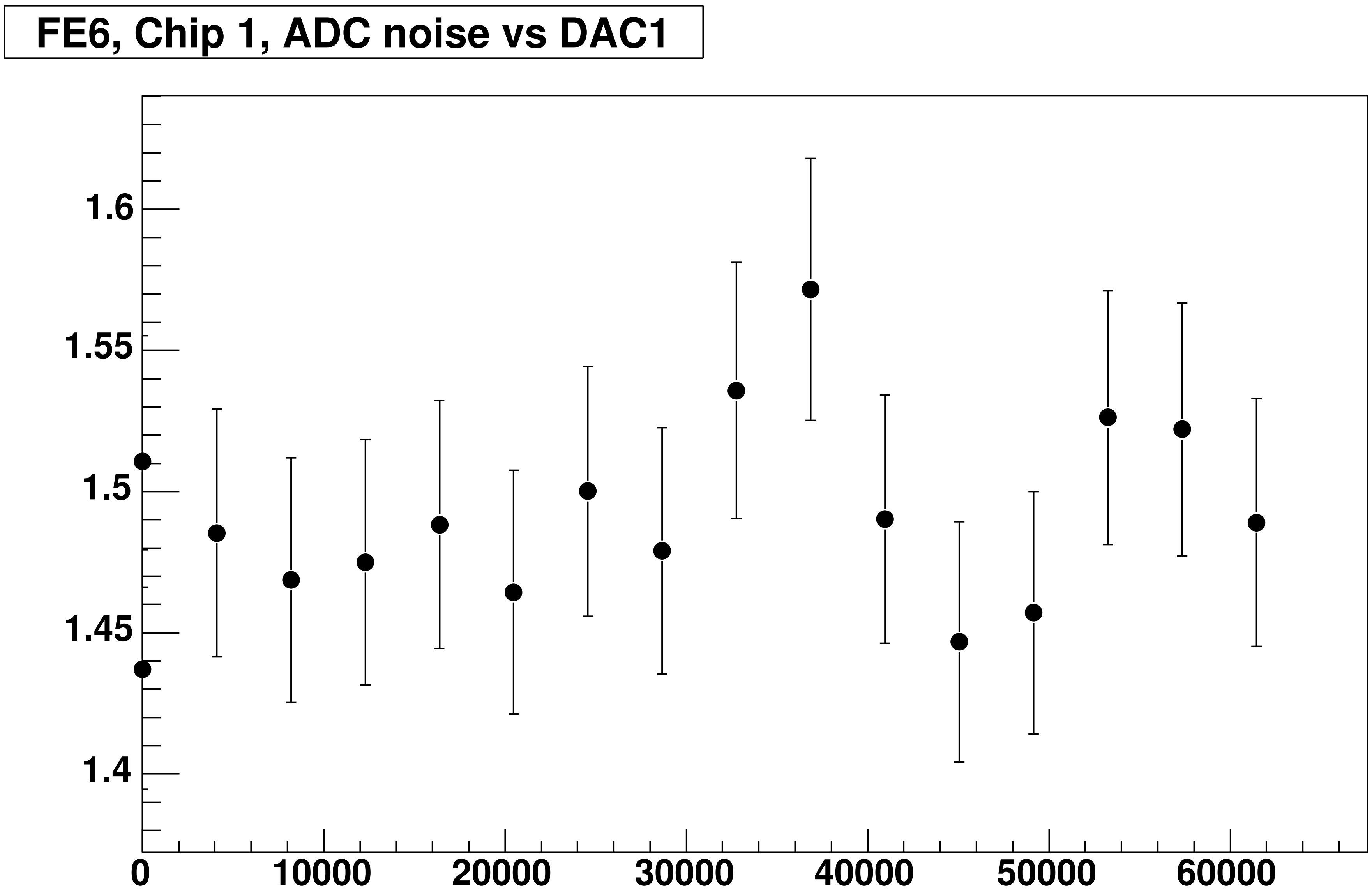


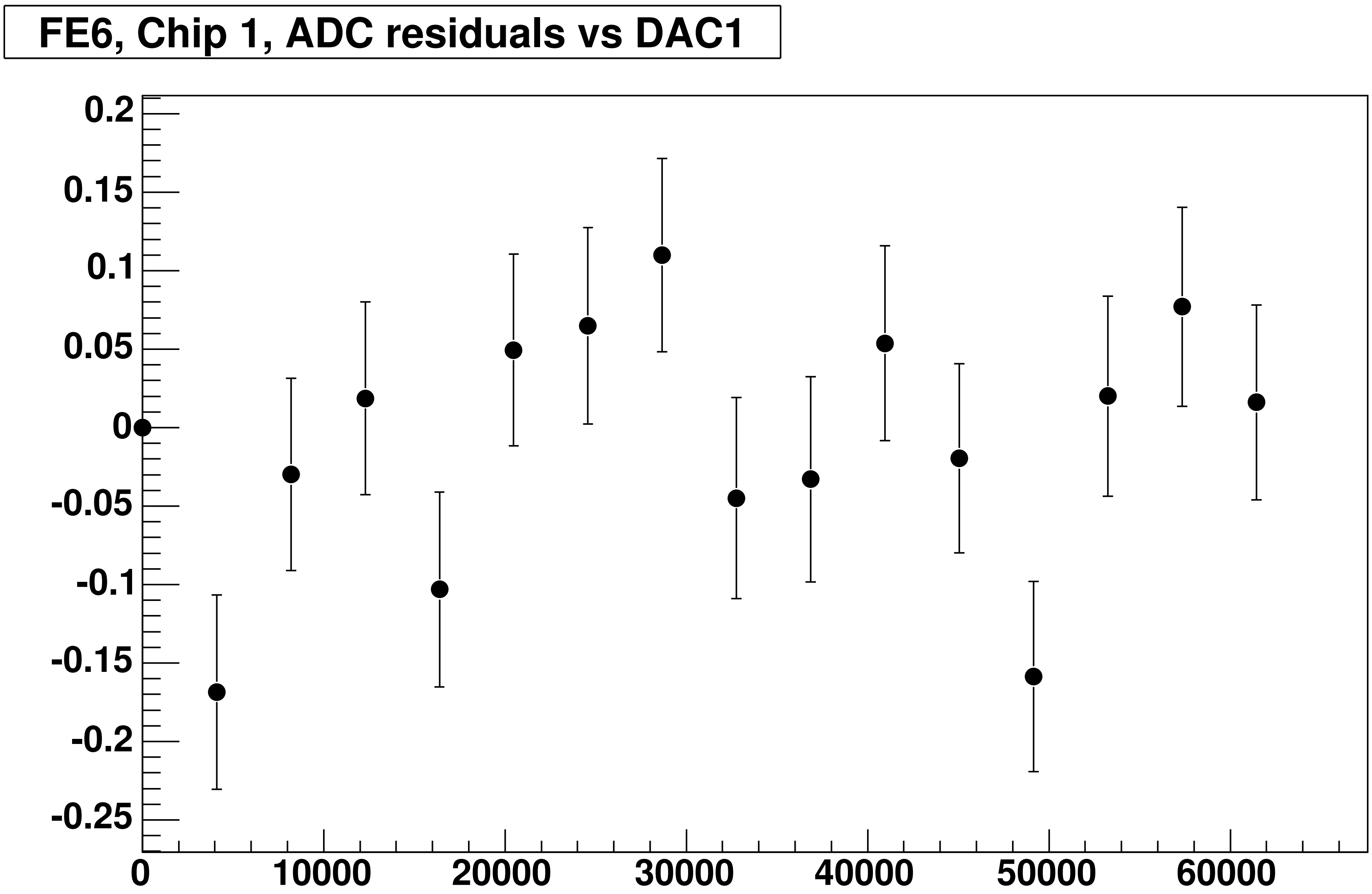
FE6, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2222 / 11
p0 -27.61 ± 0.04069
p1 0.4501 ± 1.309e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE6, Chip 1, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

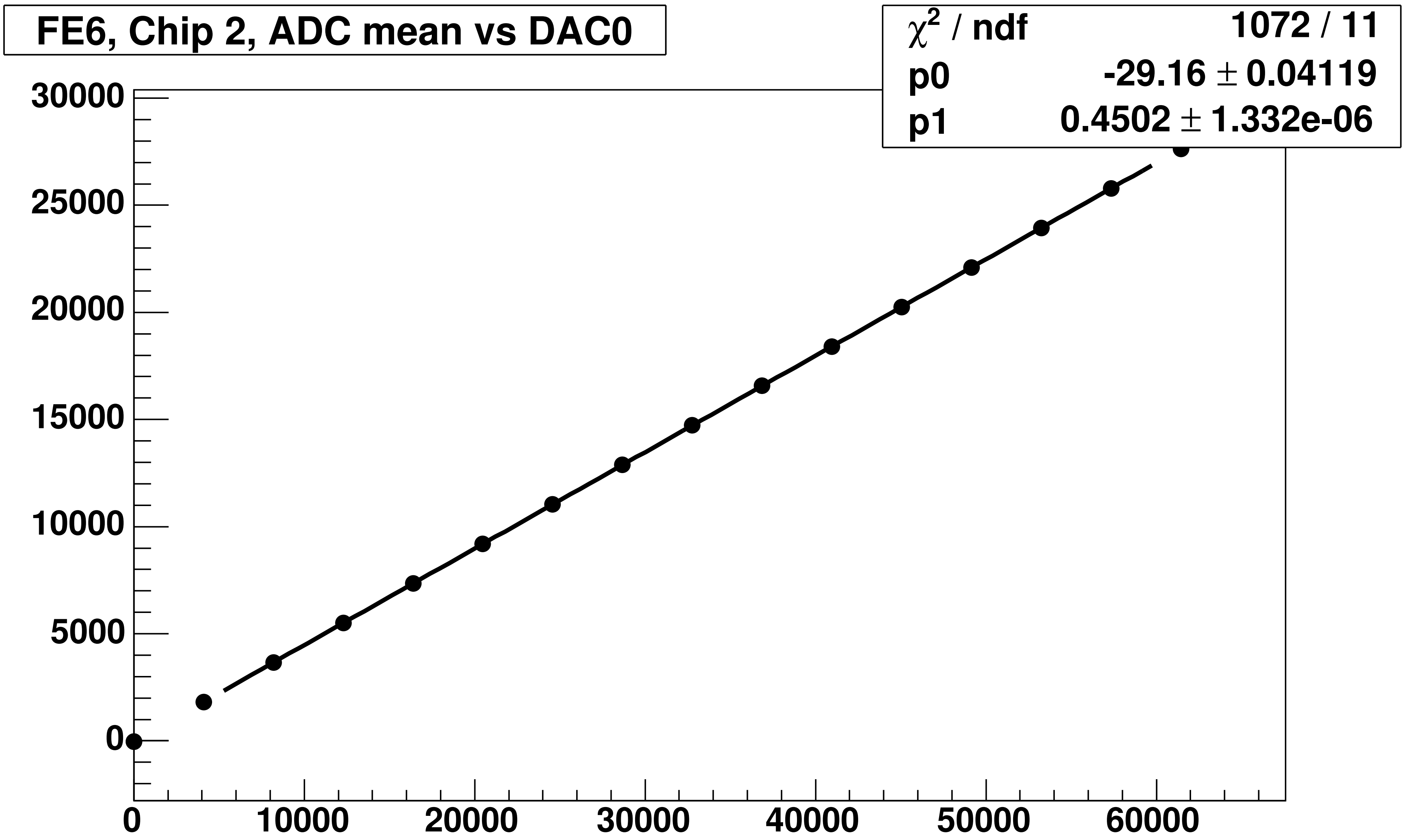

FE6, Chip 1, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE6, Chip 1, ADC mean vs DAC1
χ^2 / ndf 18 / 11
p0 -25.24 ± 0.04043
p1 -2.916e-06 ± 1.122e-06
-25.2
-25.3
-25.4
-25.5
-25.6
0
10000
20000
30000
40000
50000
60000

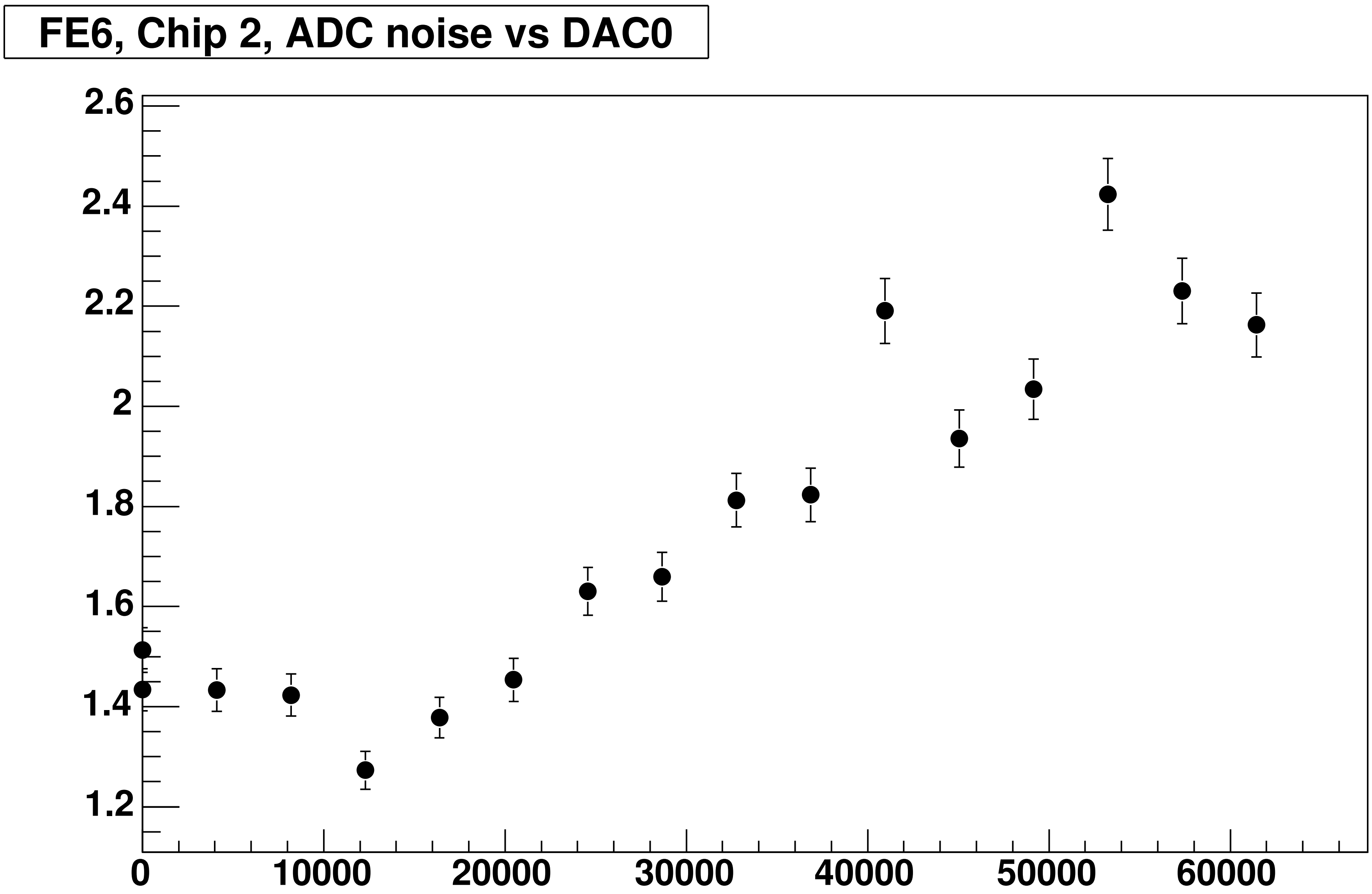

FE6, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000



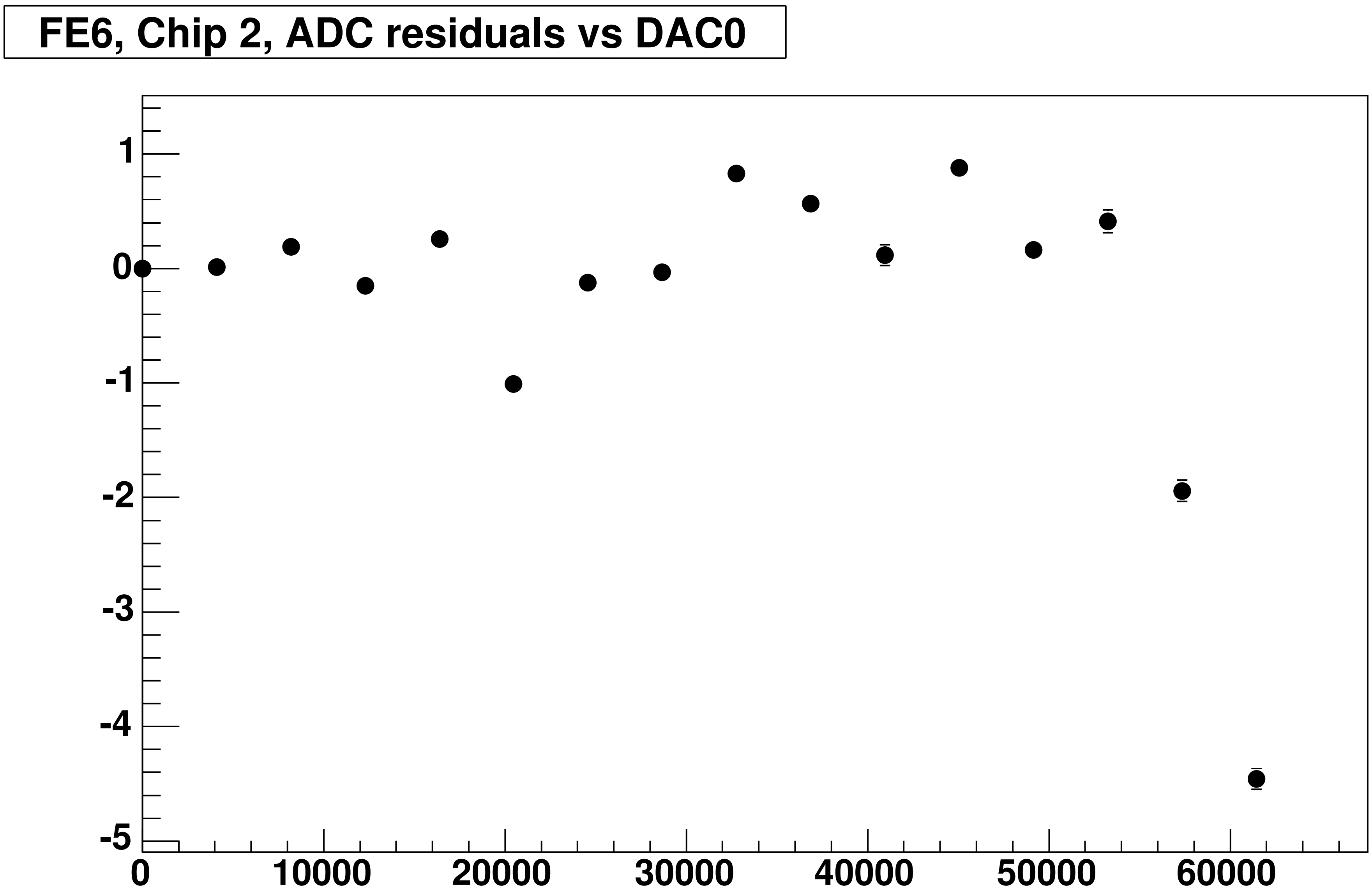
FE6, Chip 1, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

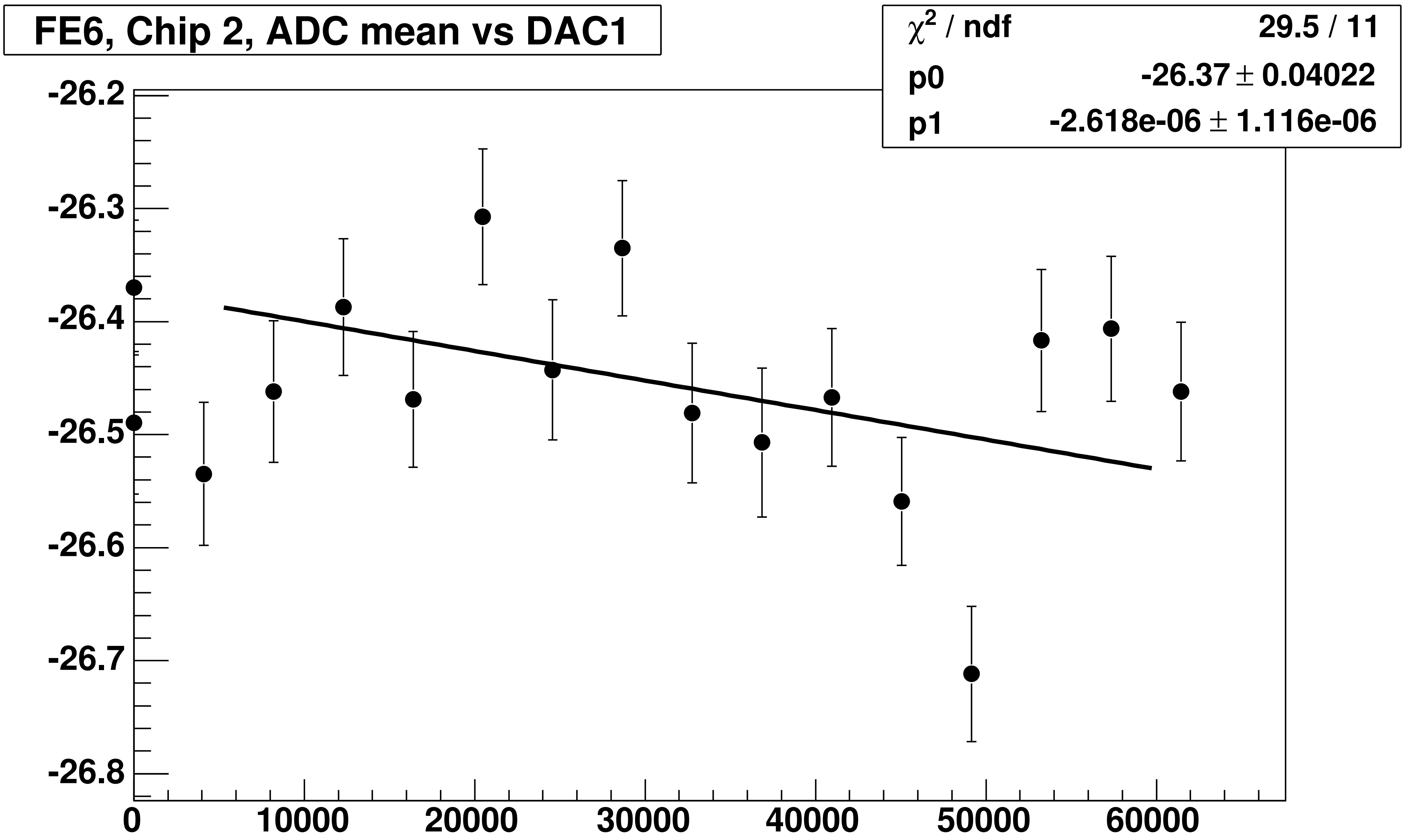


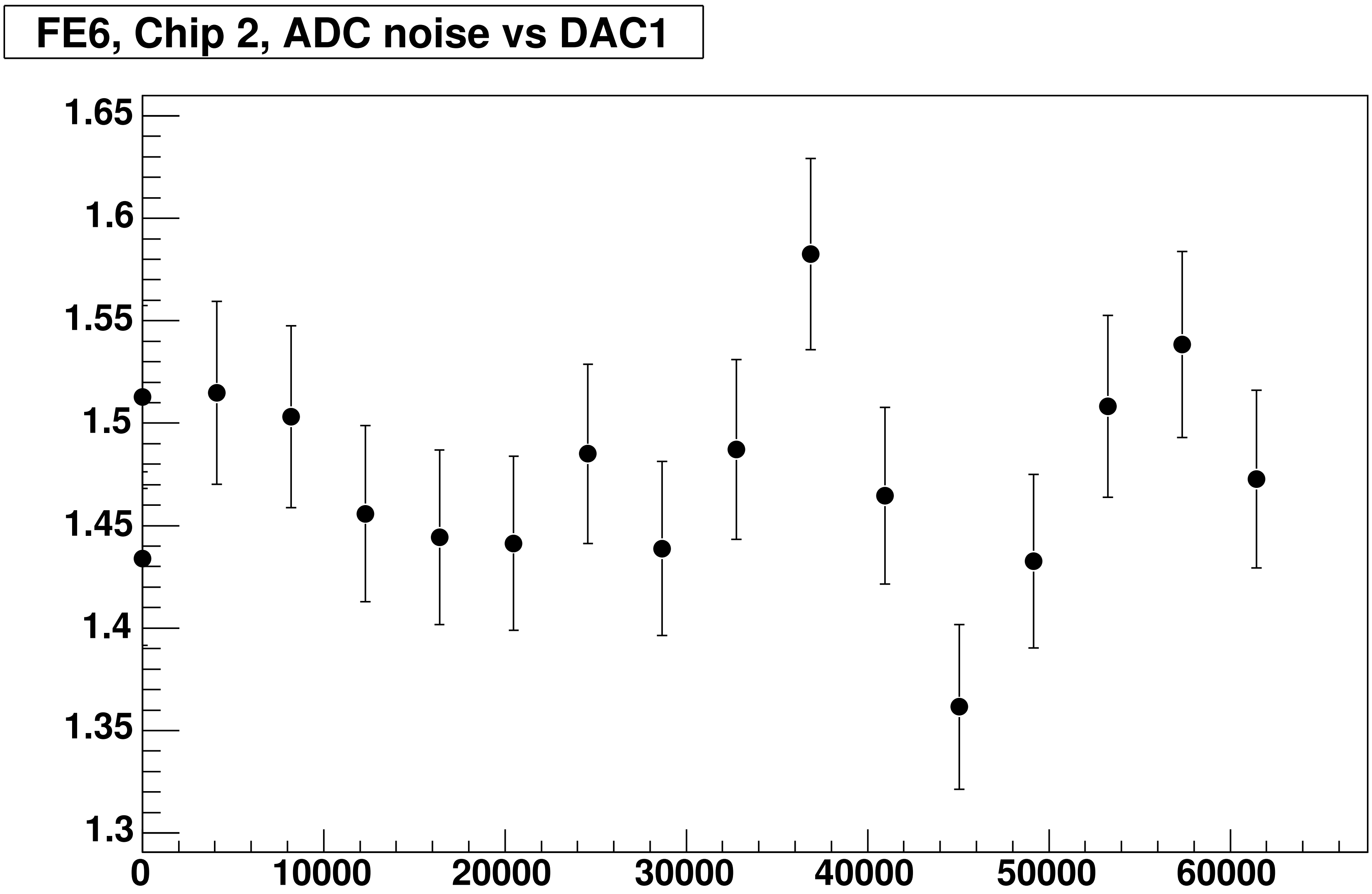
FE6, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1072 / 11
p0 -29.16 ± 0.04119
p1 0.4502 ± 1.332e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

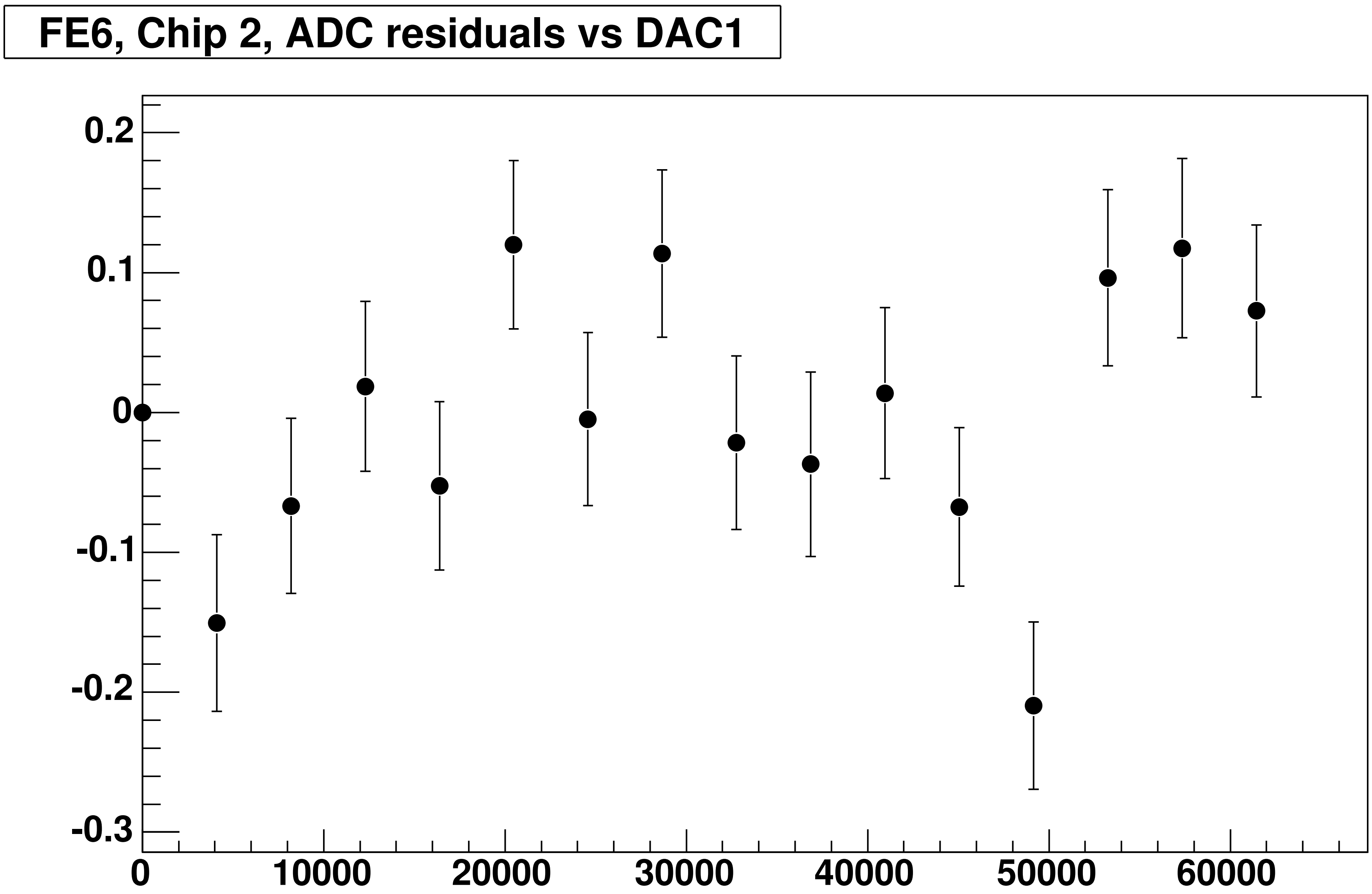


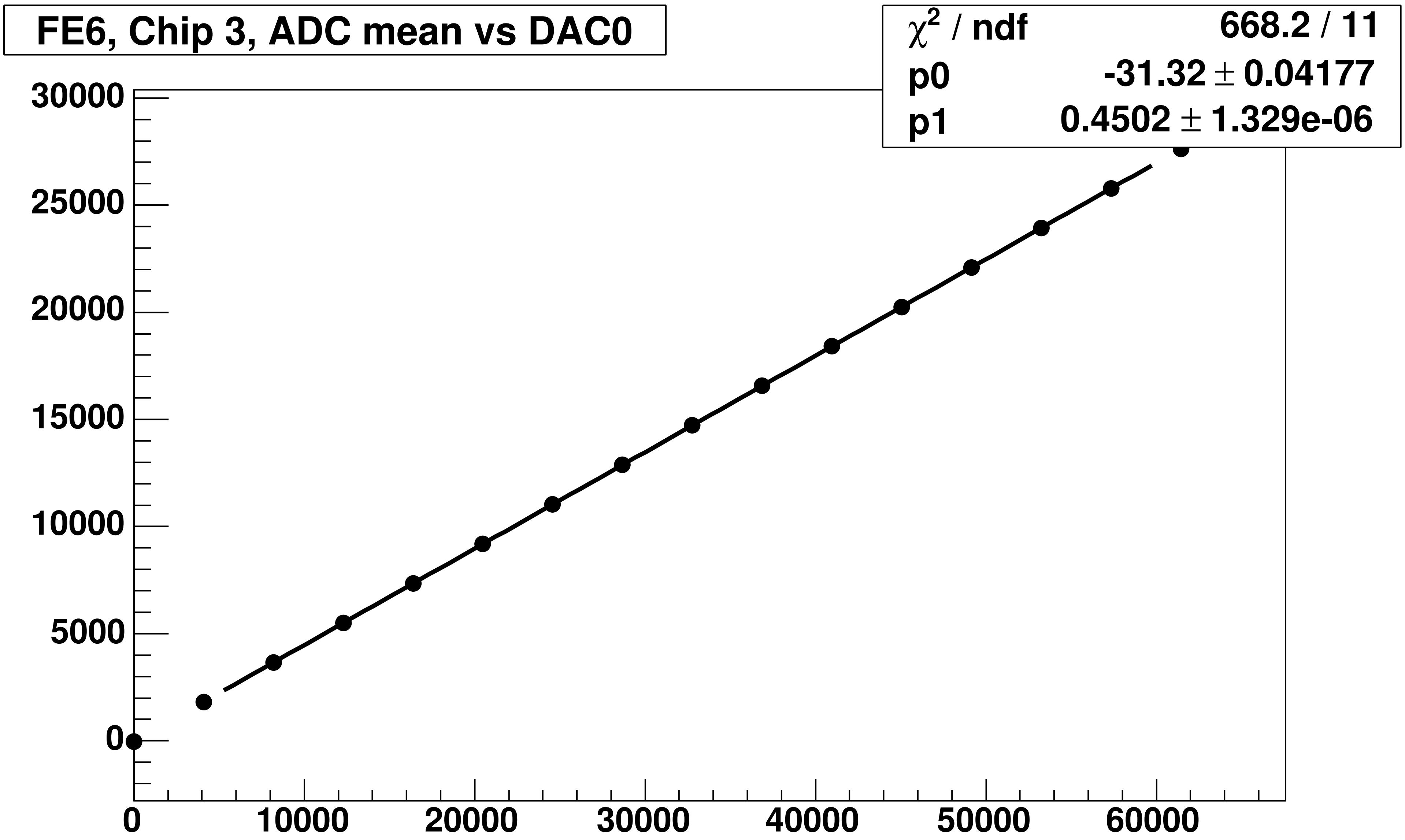
FE6, Chip 2, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE6, Chip 2, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

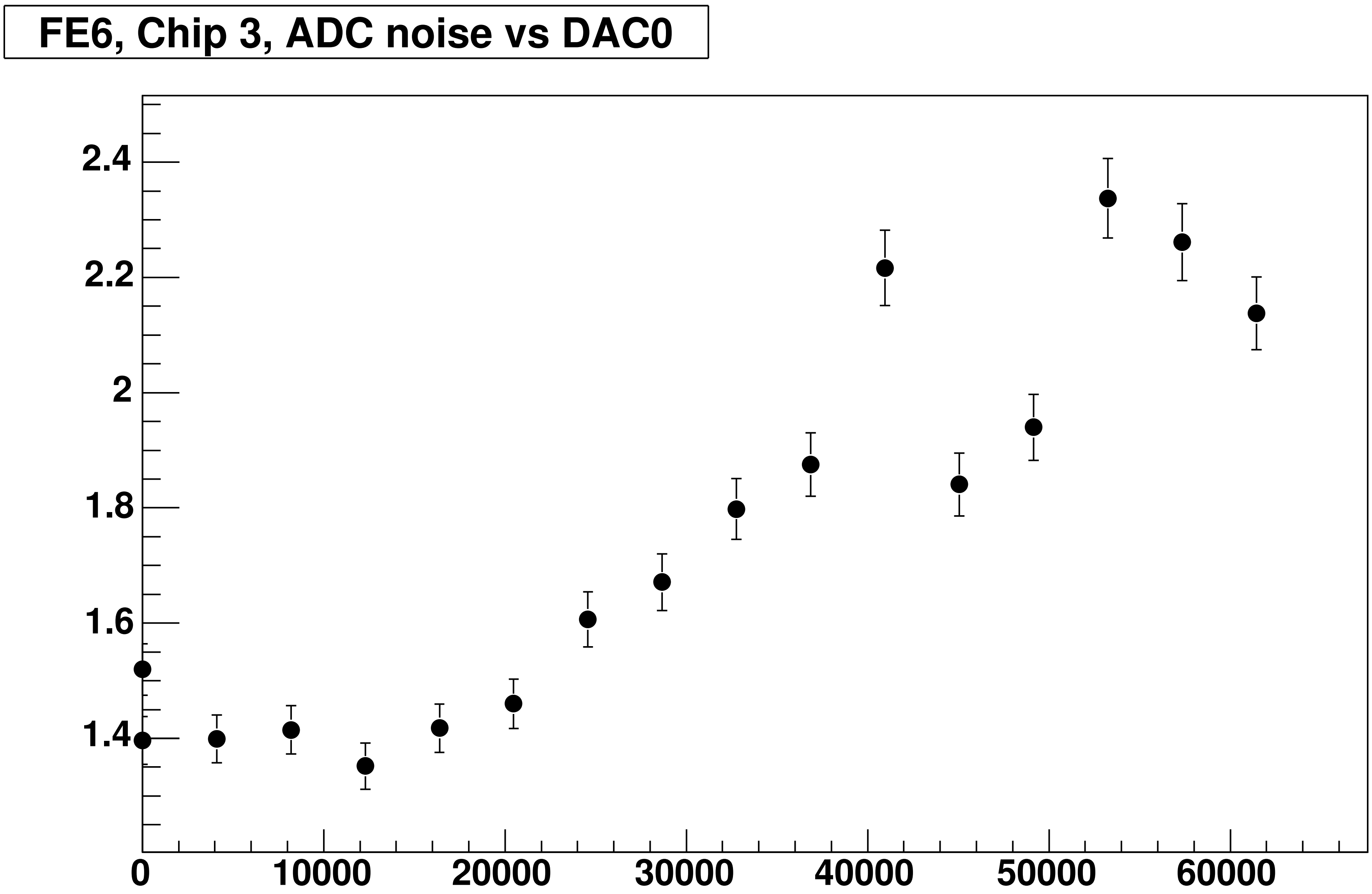

FE6, Chip 2, ADC mean vs DAC1
χ^2 / ndf 29.5 / 11
p0 -26.37 ± 0.04022
p1 -2.618e-06 ± 1.116e-06
-26.2
-26.3
-26.4
-26.5
-26.6
-26.7
-26.8
0
10000
20000
30000
40000
50000
60000

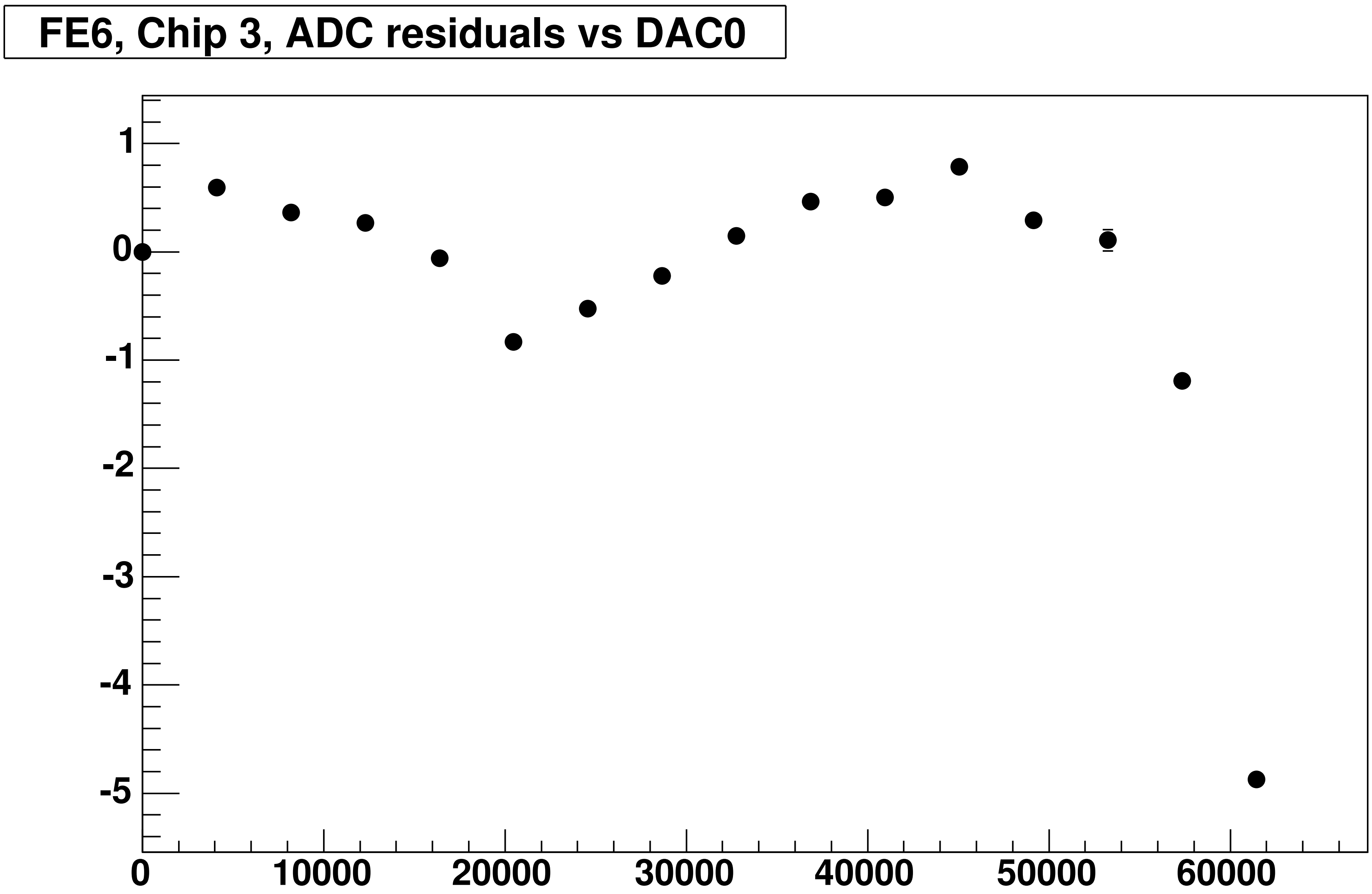

FE6, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


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

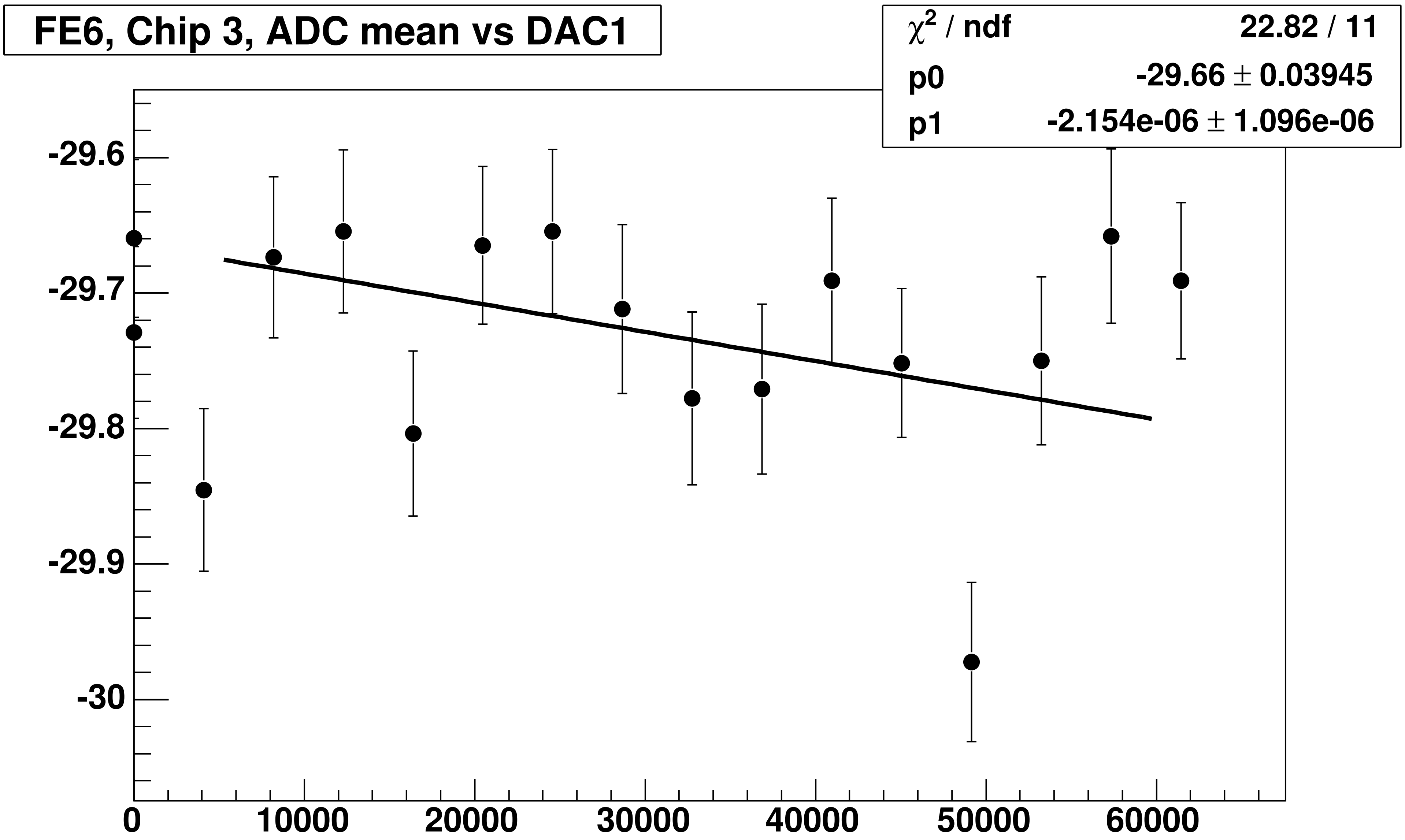


FE6, Chip 3, ADC mean vs DAC0
χ^2 / ndf 668.2 / 11
p0 -31.32 ± 0.04177
p1 0.4502 ± 1.329e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

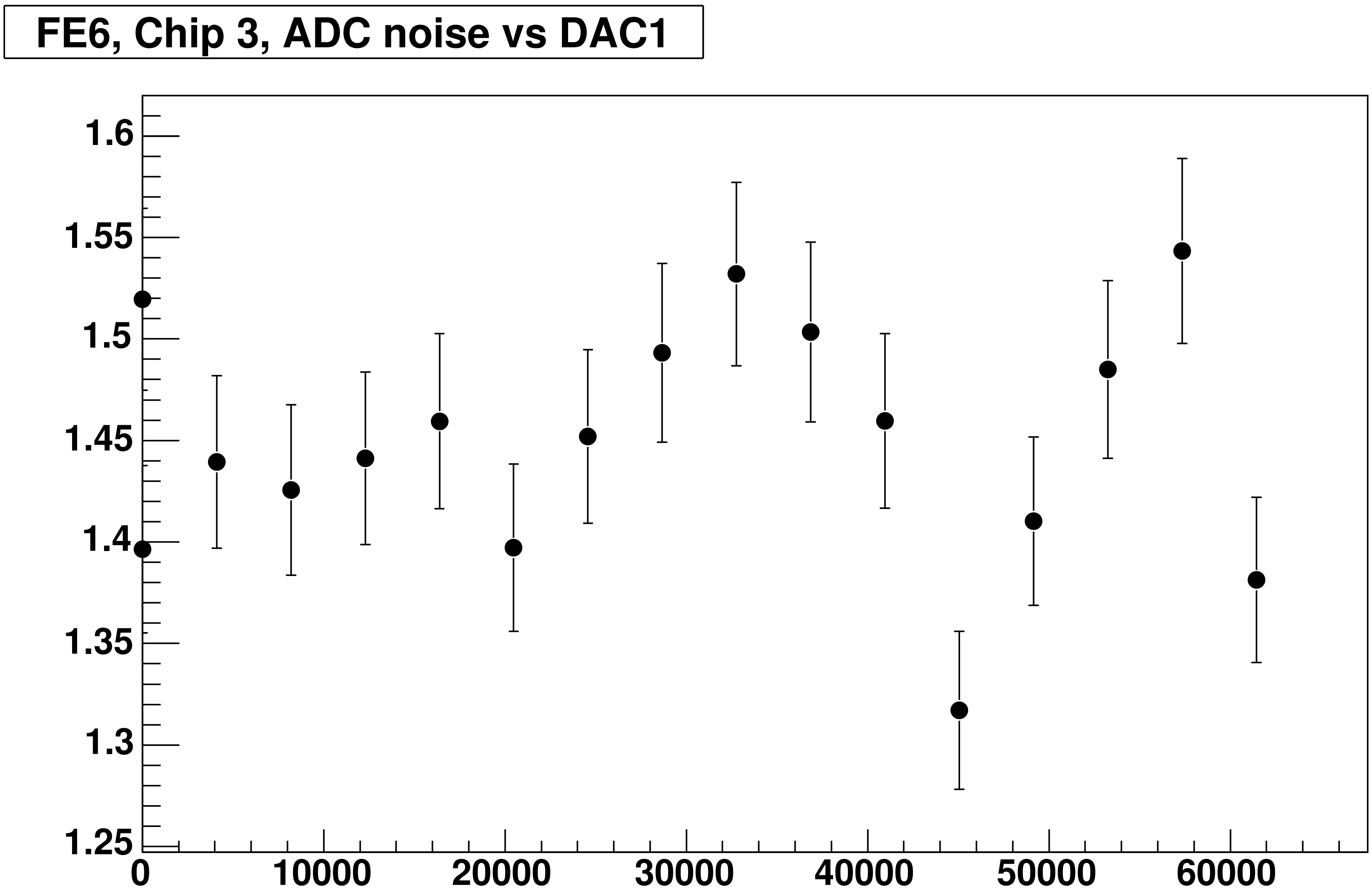

FE6, Chip 3, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

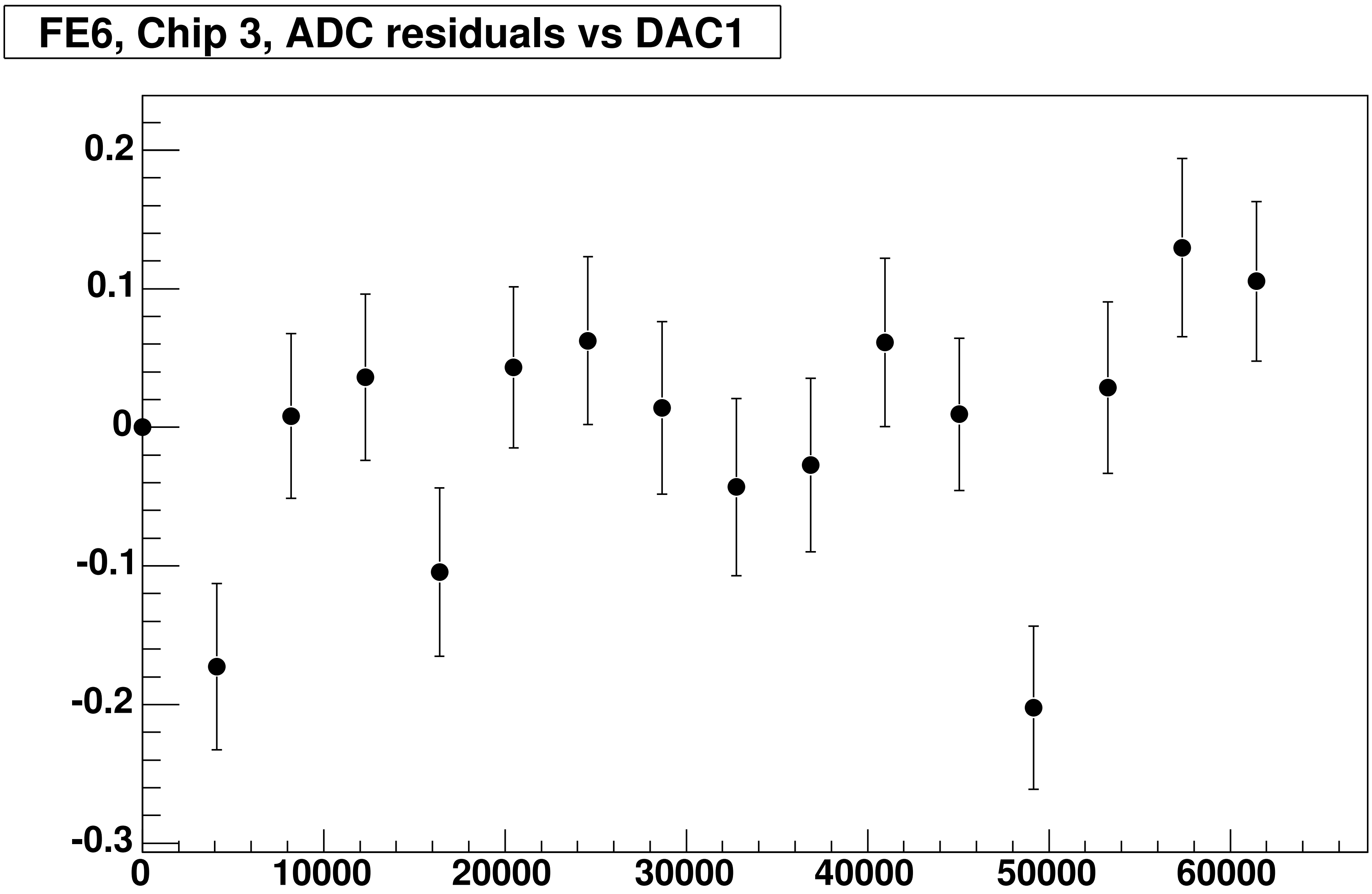


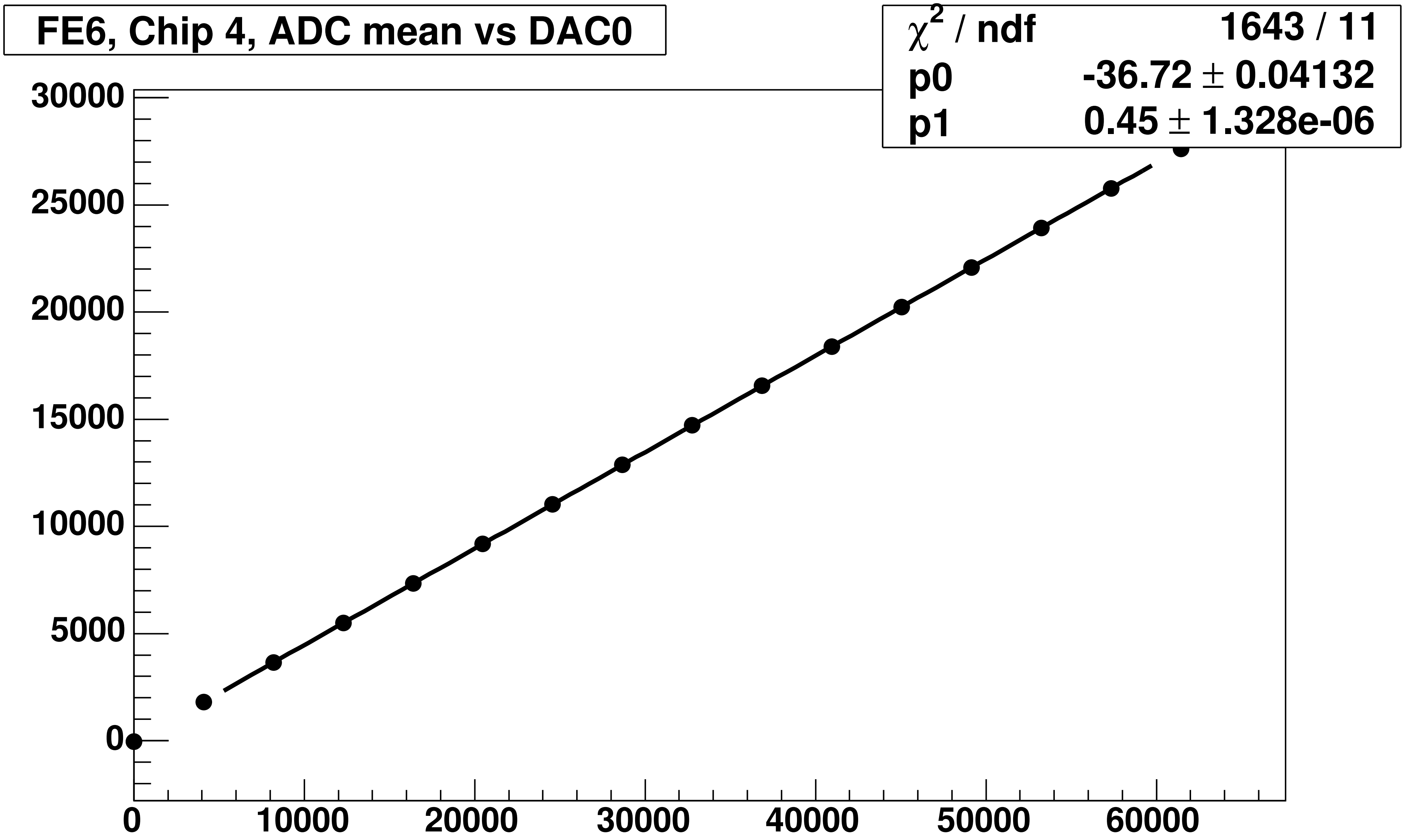
FE6, Chip 3, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



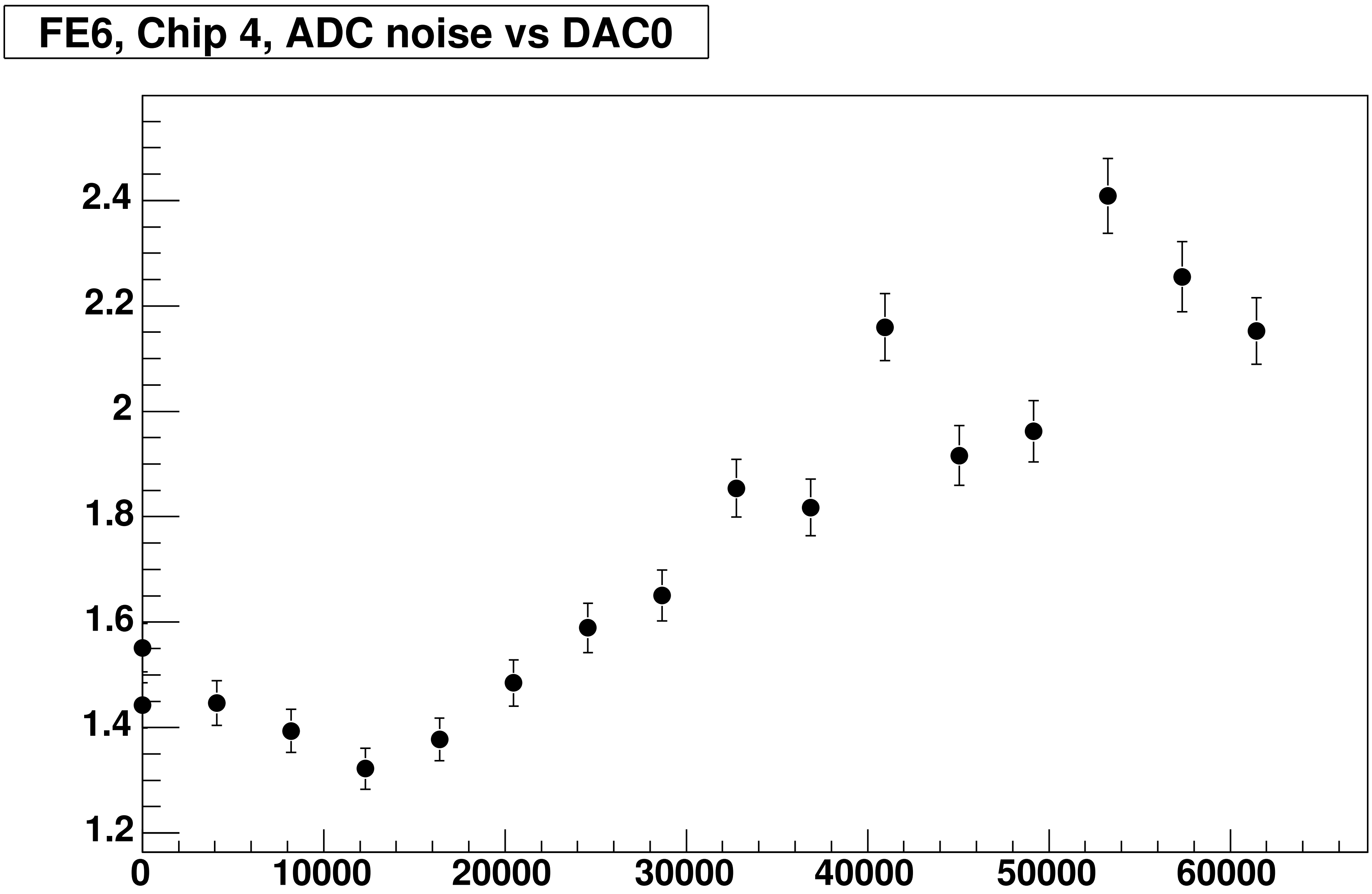
FE6, Chip 3, ADC mean vs DAC1
χ^2 / ndf 22.82 / 11
p0 -29.66 ± 0.03945
p1 -2.154e-06 ± 1.096e-06
-29.6
-29.7
-29.8
-29.9
-30
0
10000
20000
30000
40000
50000
60000


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

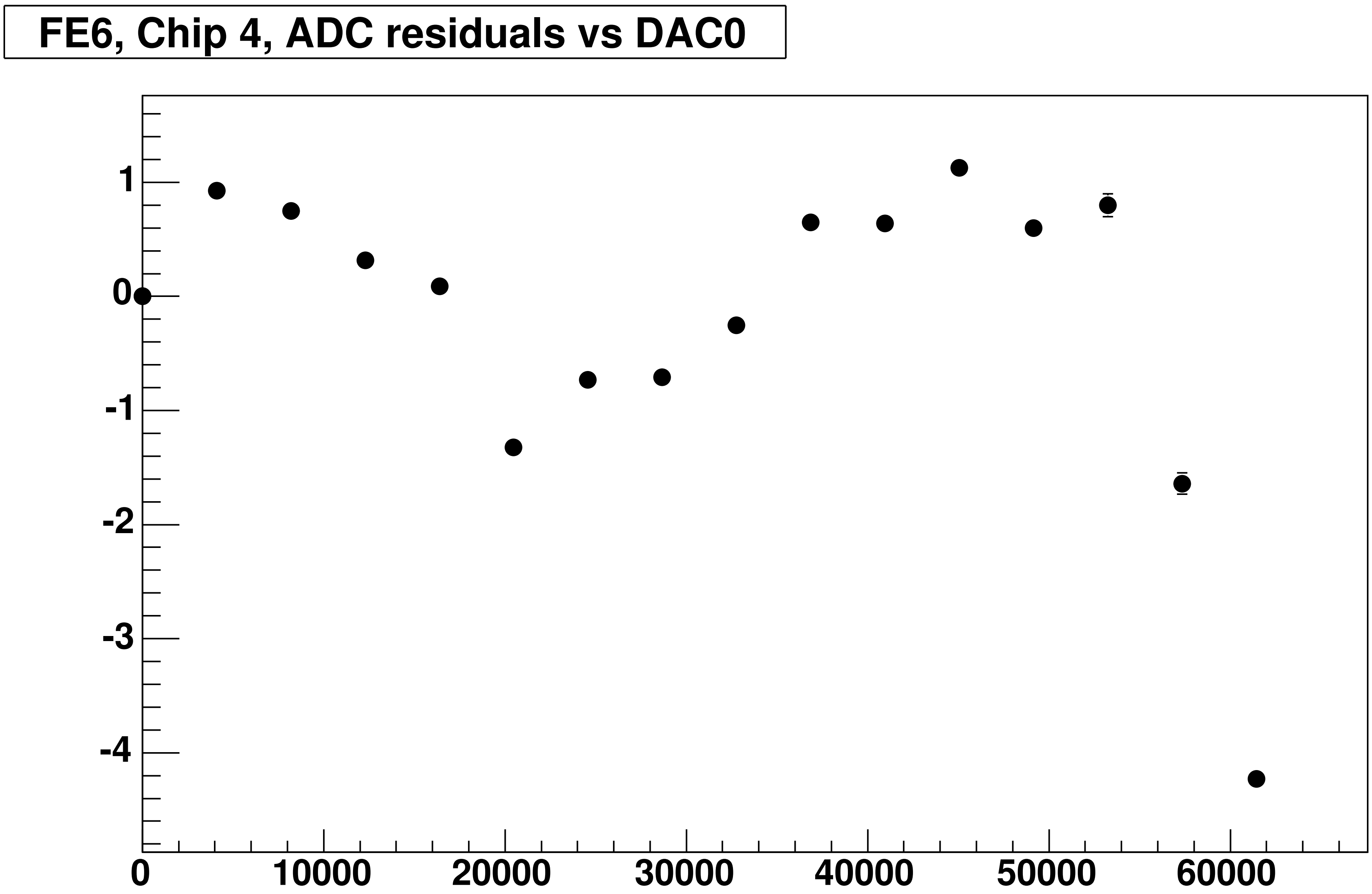

FE6, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

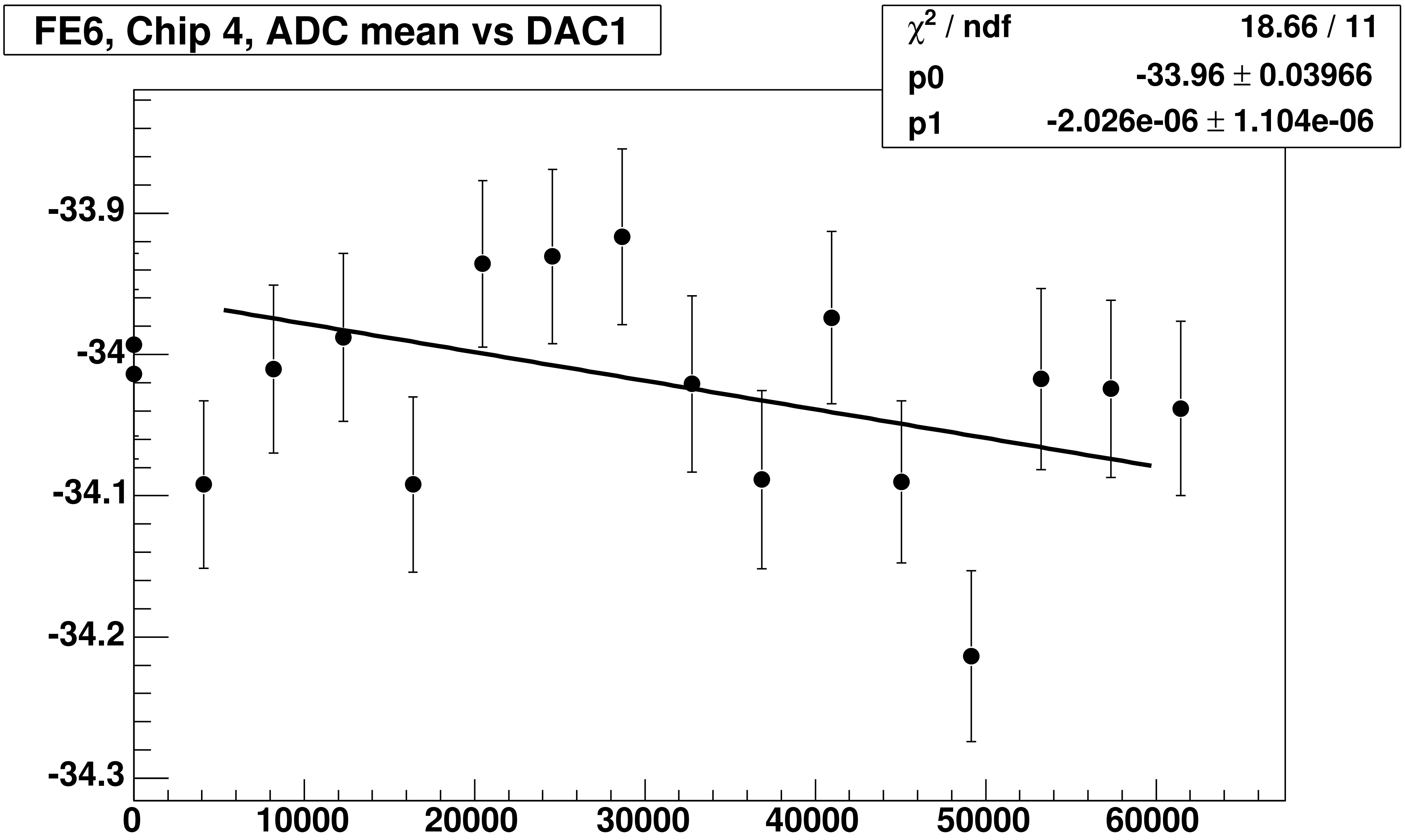


FE6, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1643 / 11
p0 -36.72 ± 0.04132
p1 0.45 ± 1.328e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

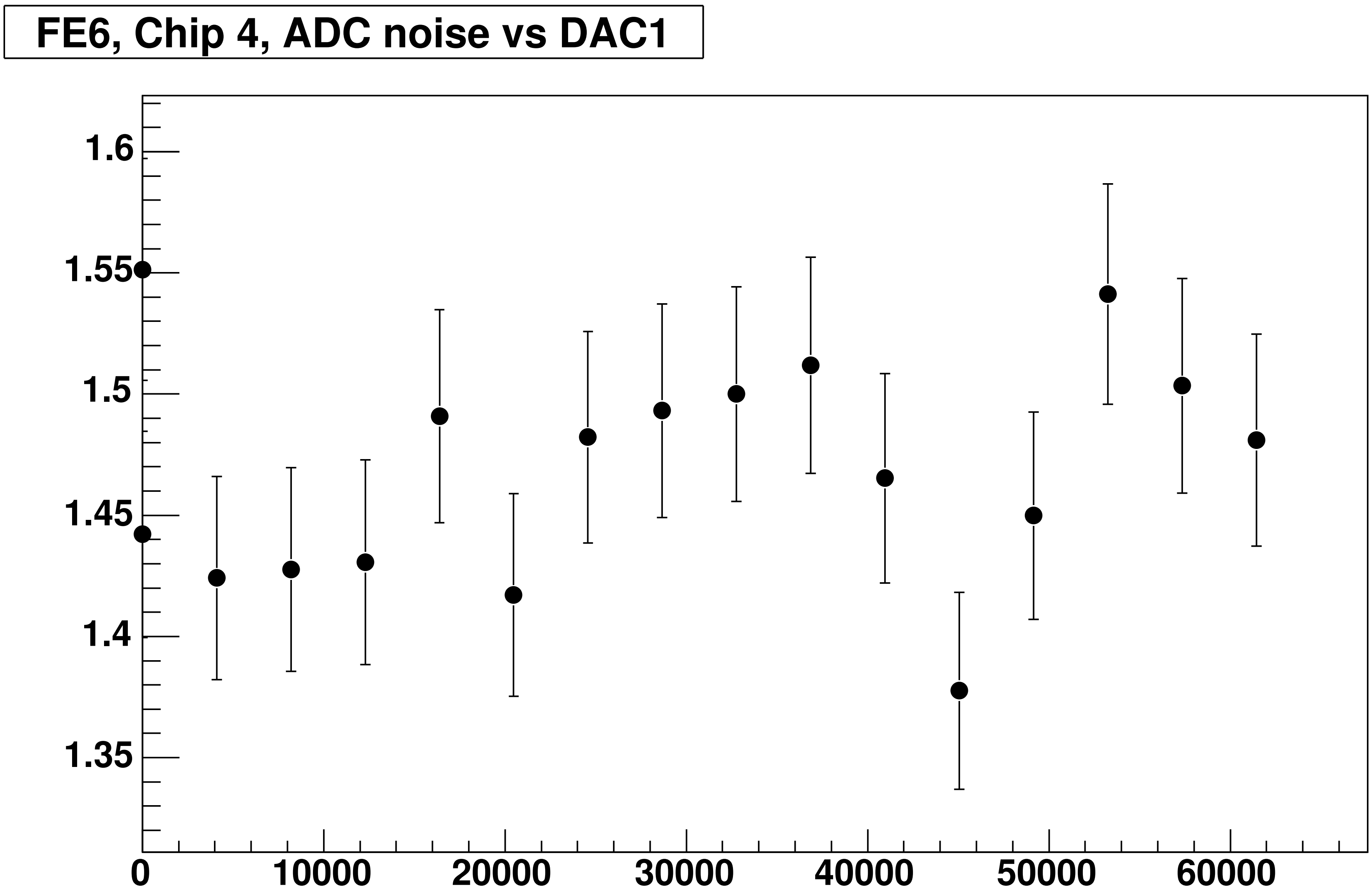


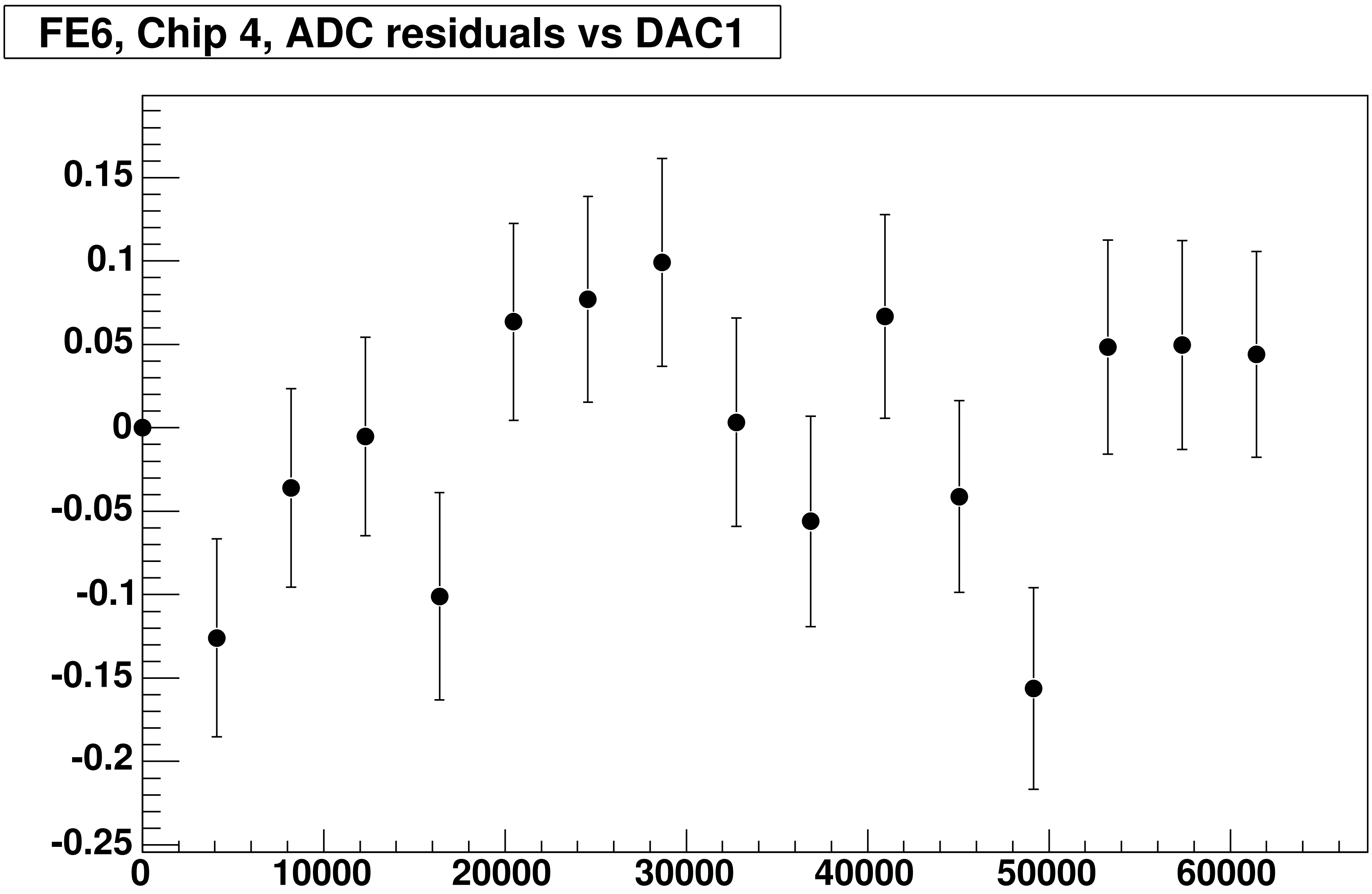
FE6, Chip 4, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE6, Chip 4, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

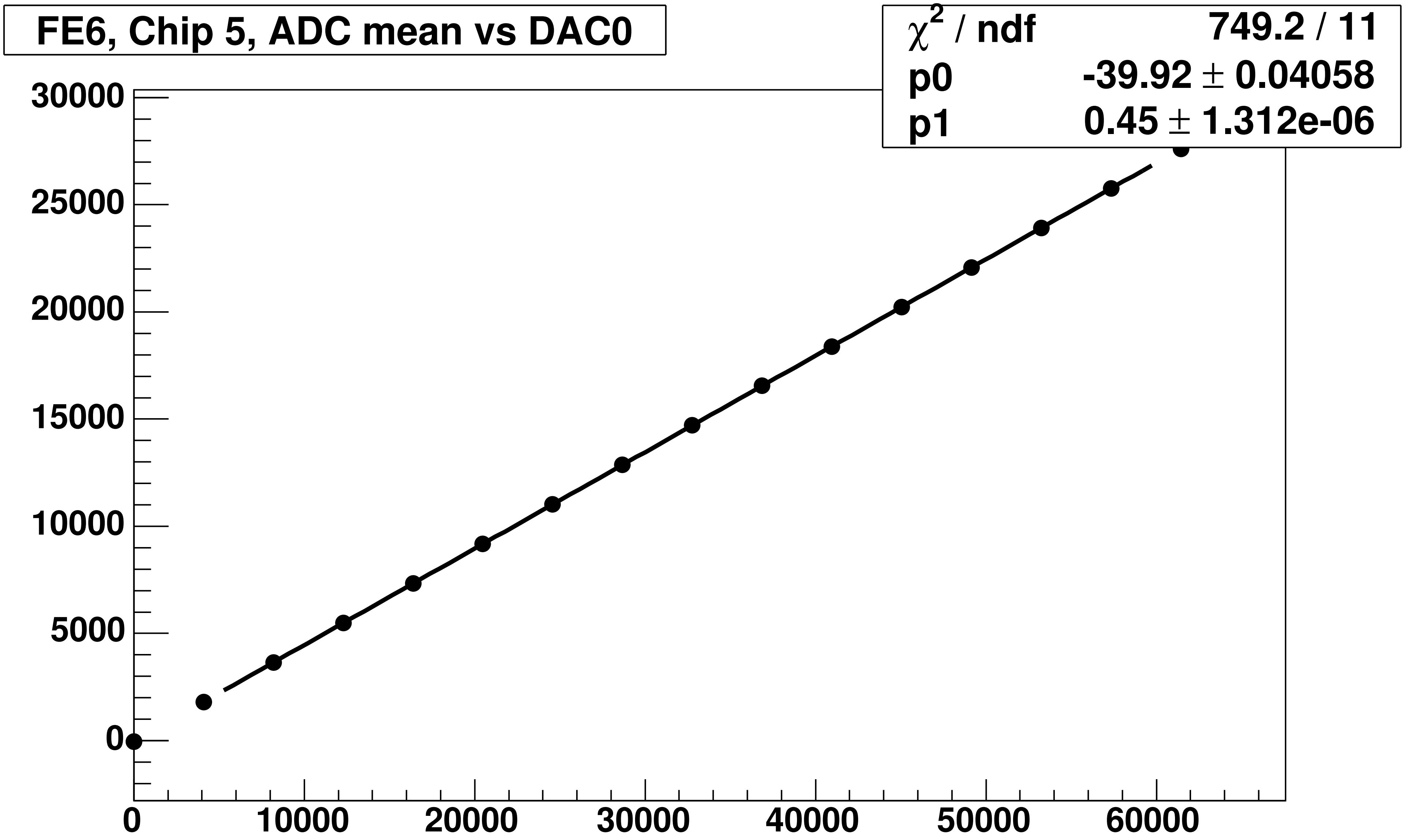


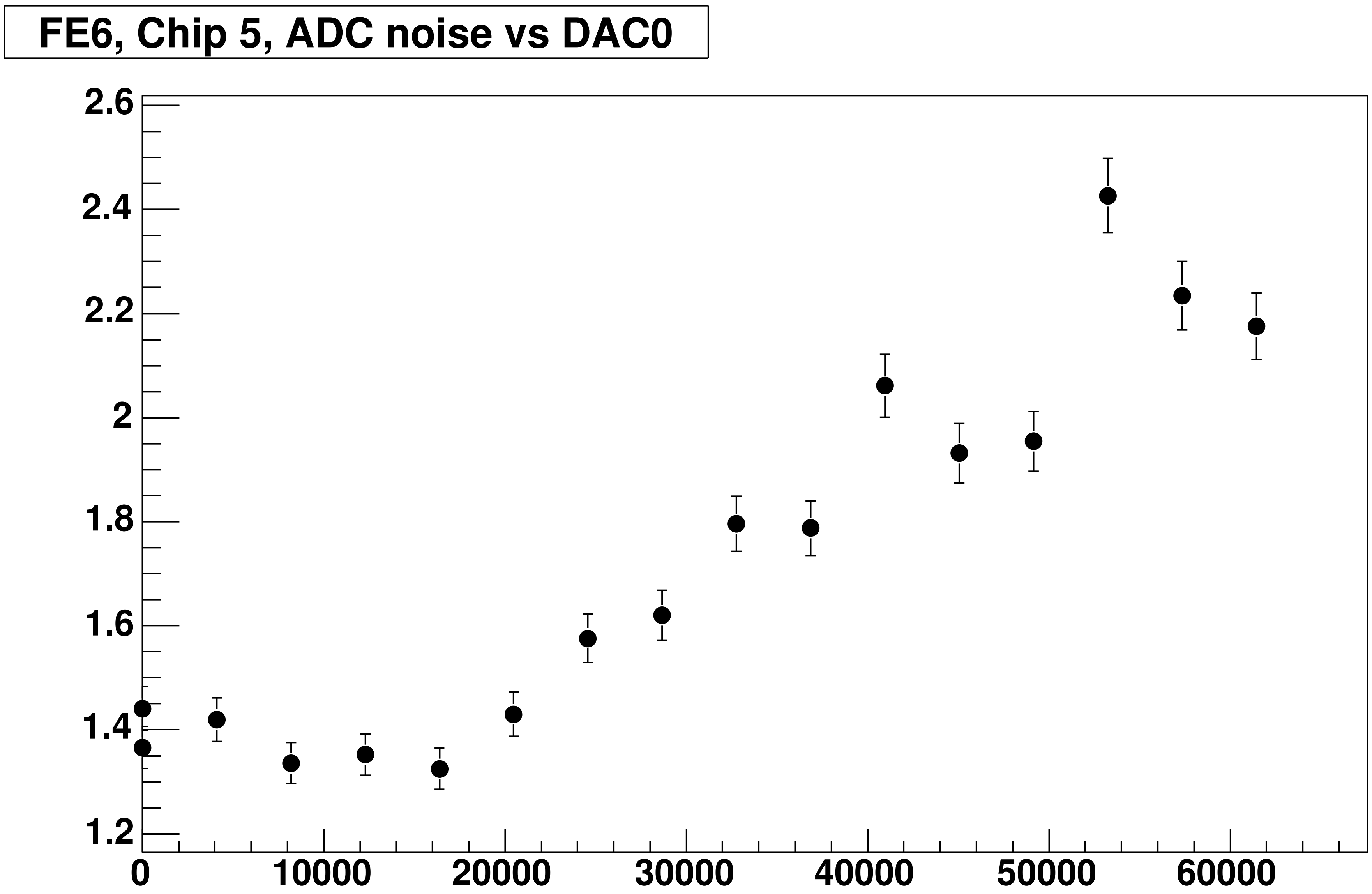
FE6, Chip 4, ADC mean vs DAC1
χ^2 / ndf 18.66 / 11
p0 -33.96 ± 0.03966
p1 -2.026e-06 ± 1.104e-06
-33.9
-34
-34.1
-34.2
-34.3
0
10000
20000
30000
40000
50000
60000

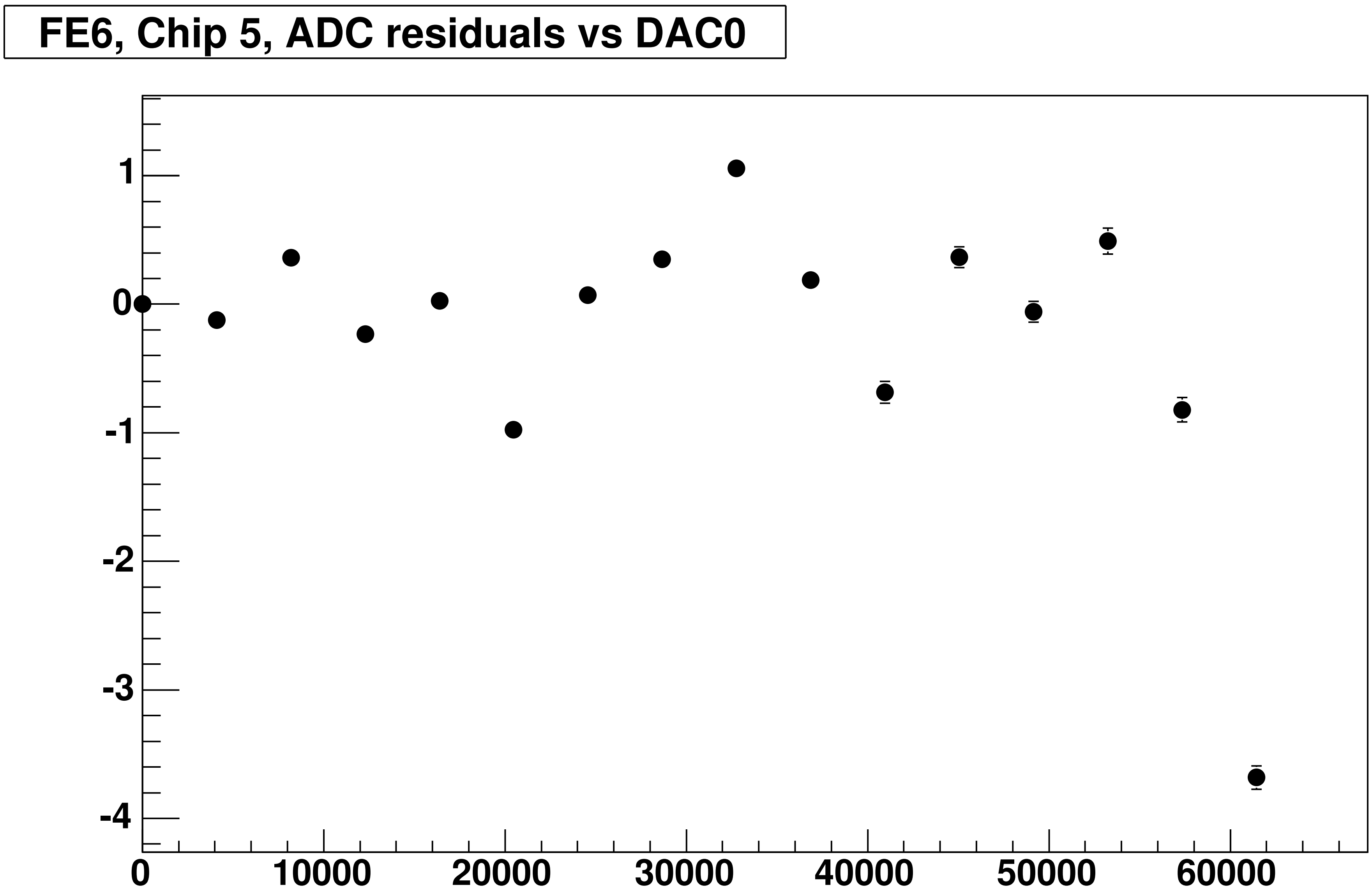

FE6, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

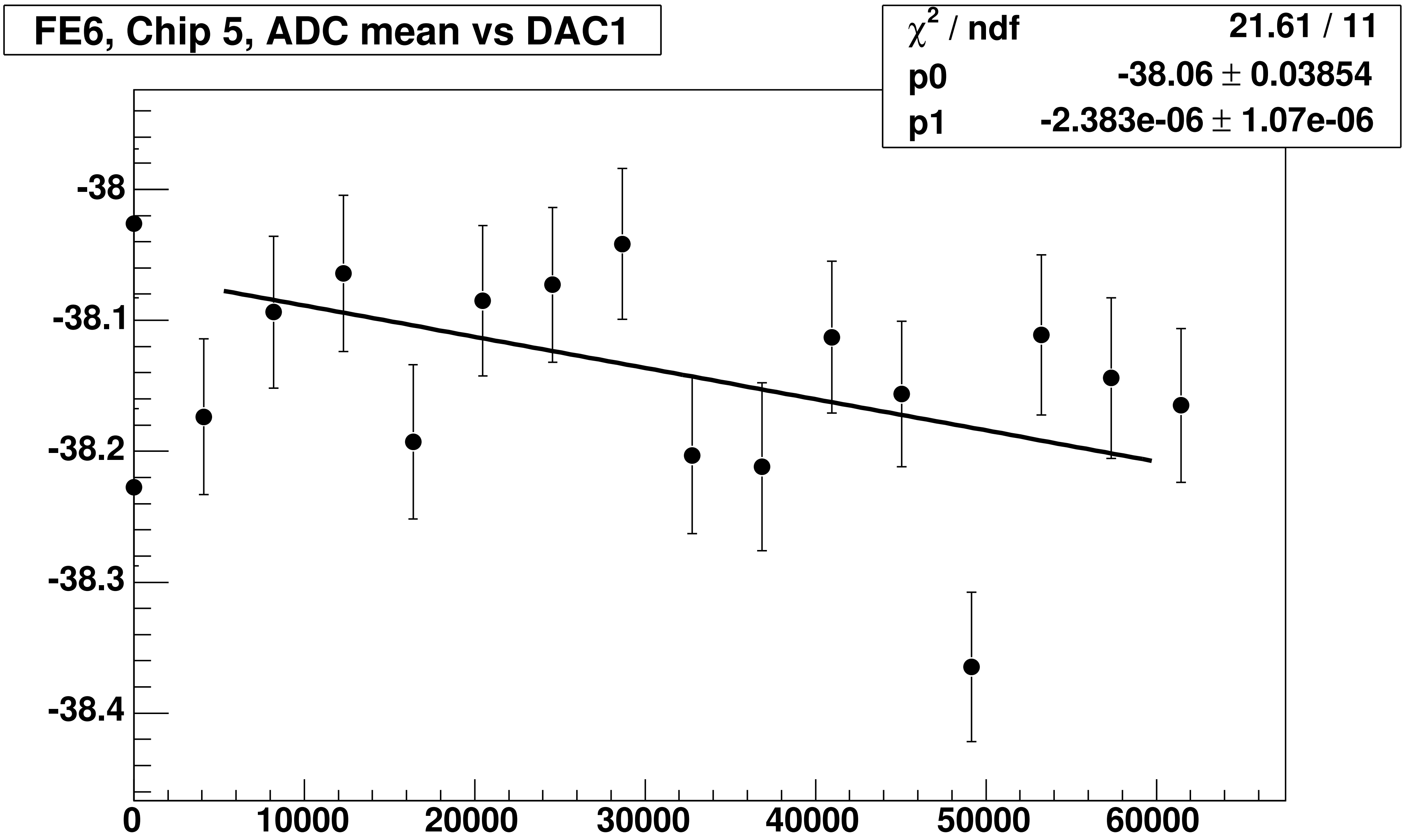


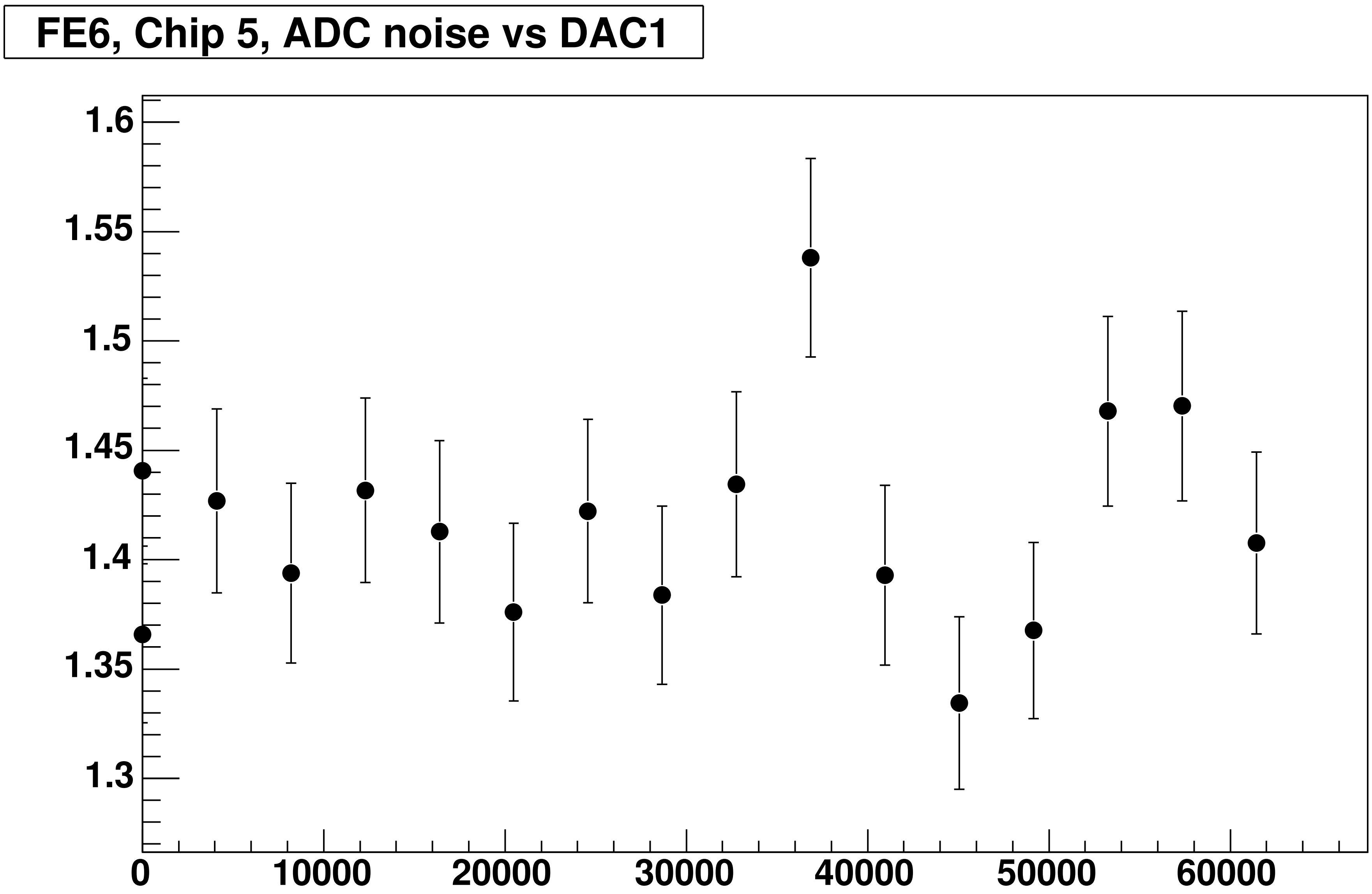
FE6, Chip 4, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

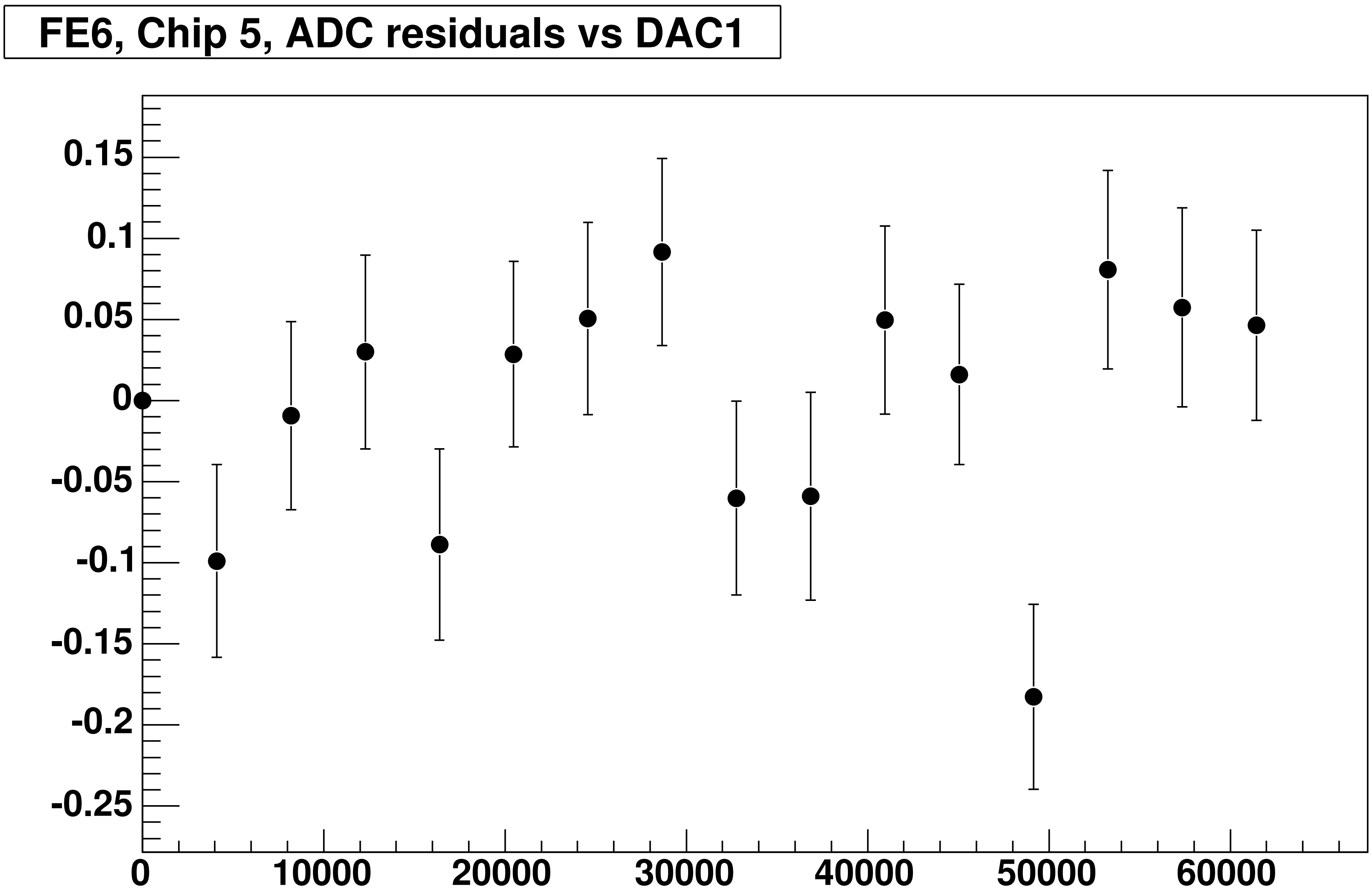

FE6, Chip 5, ADC mean vs DAC0
χ^2 / ndf 749.2 / 11
p0 -39.92 ± 0.04058
p1 0.45 ± 1.312e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

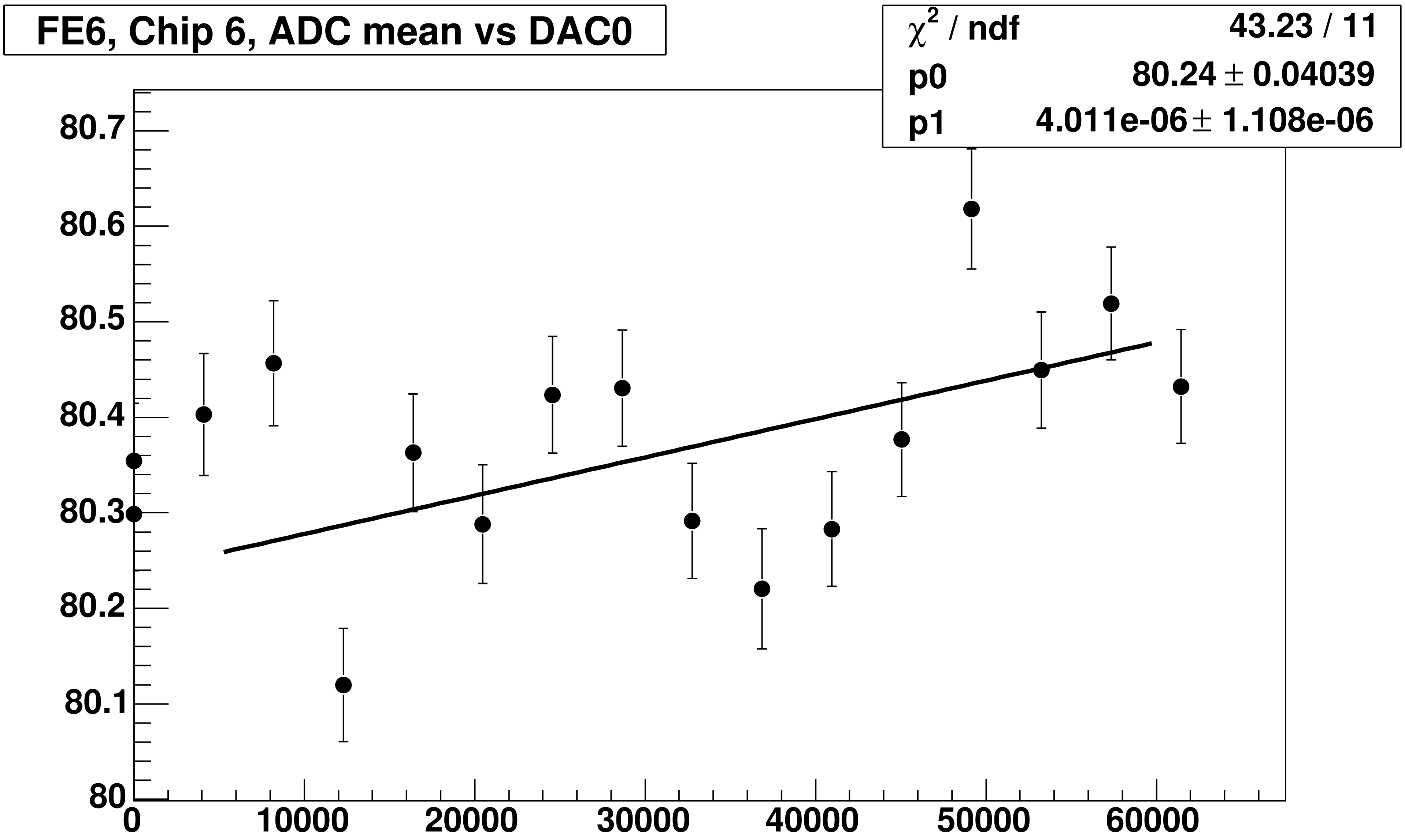

FE6, Chip 5, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE6, Chip 5, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

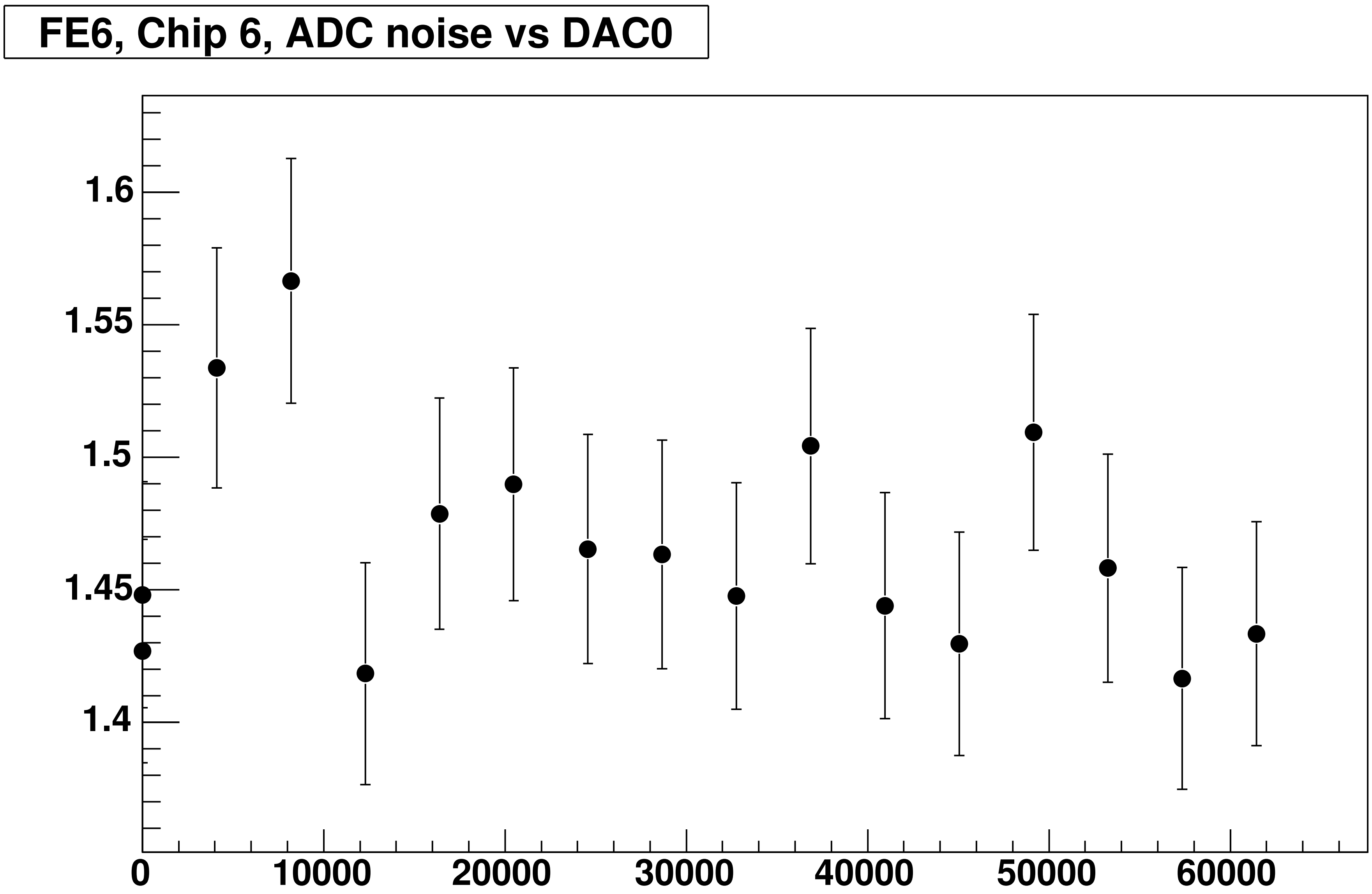

FE6, Chip 5, ADC mean vs DAC1
χ^2 / ndf 21.61 / 11
p0 -38.06 ± 0.03854
p1 -2.383e-06 ± 1.07e-06
-38
-38.1
-38.2
-38.3
-38.4
0
10000
20000
30000
40000
50000
60000


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

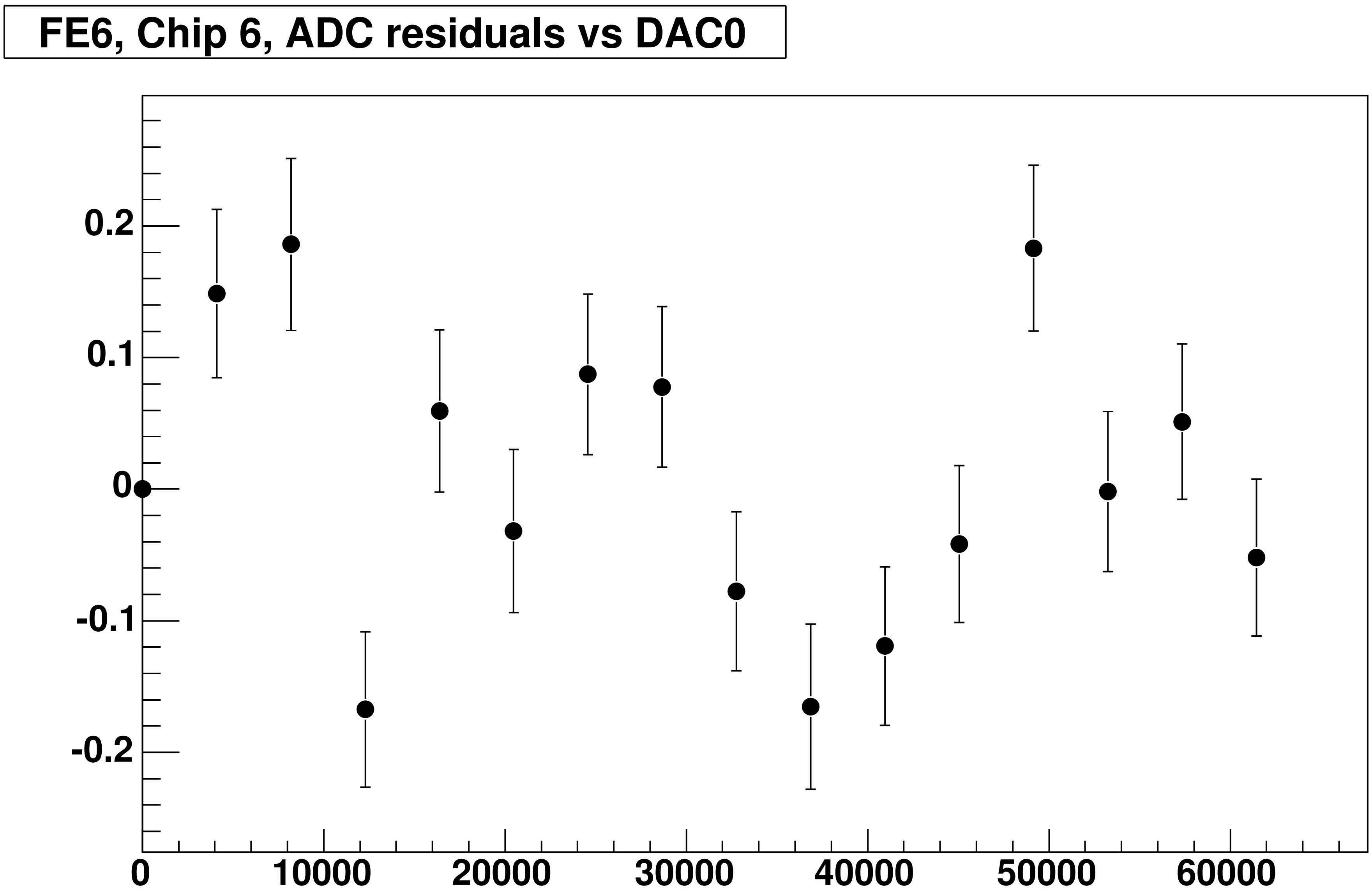

FE6, Chip 5, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000



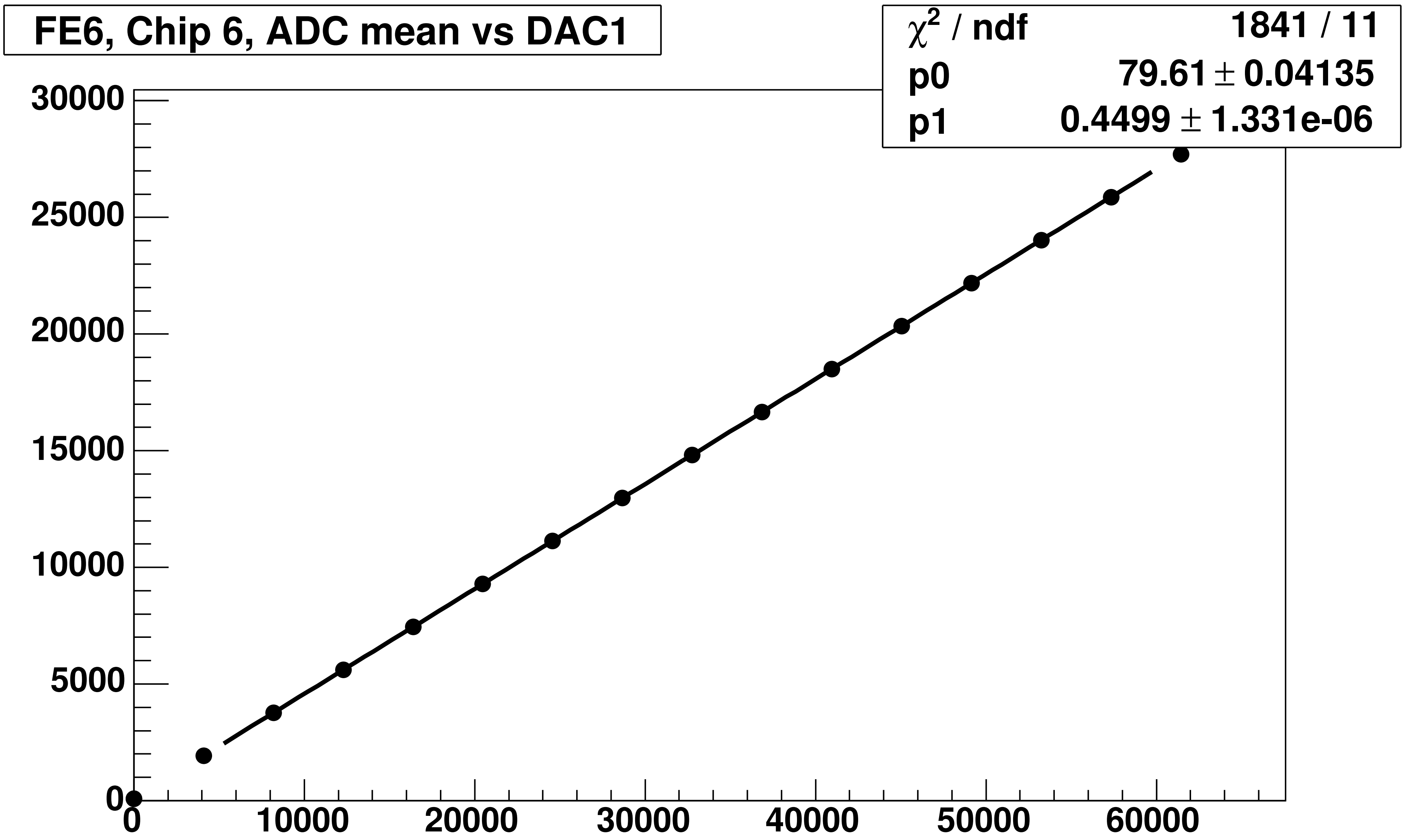
FE6, Chip 6, ADC mean vs DAC0
χ^2 / ndf 43.23 / 11
p0 80.24 ± 0.04039
p1 4.011e-06 ± 1.108e-06
80.7
80.6
80.5
80.4
80.3
80.2
80.1
80
0
10000
20000
30000
40000
50000
60000

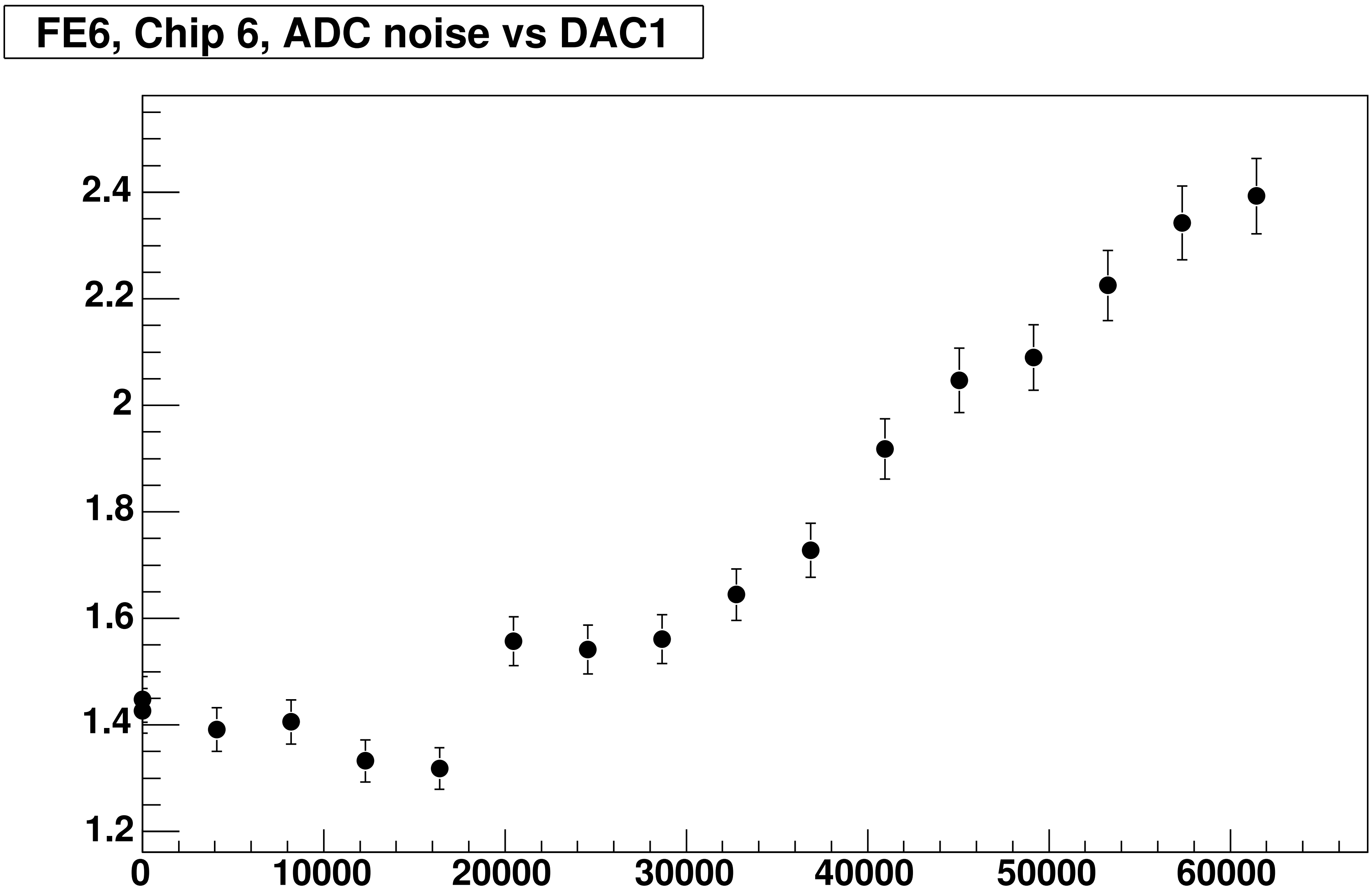


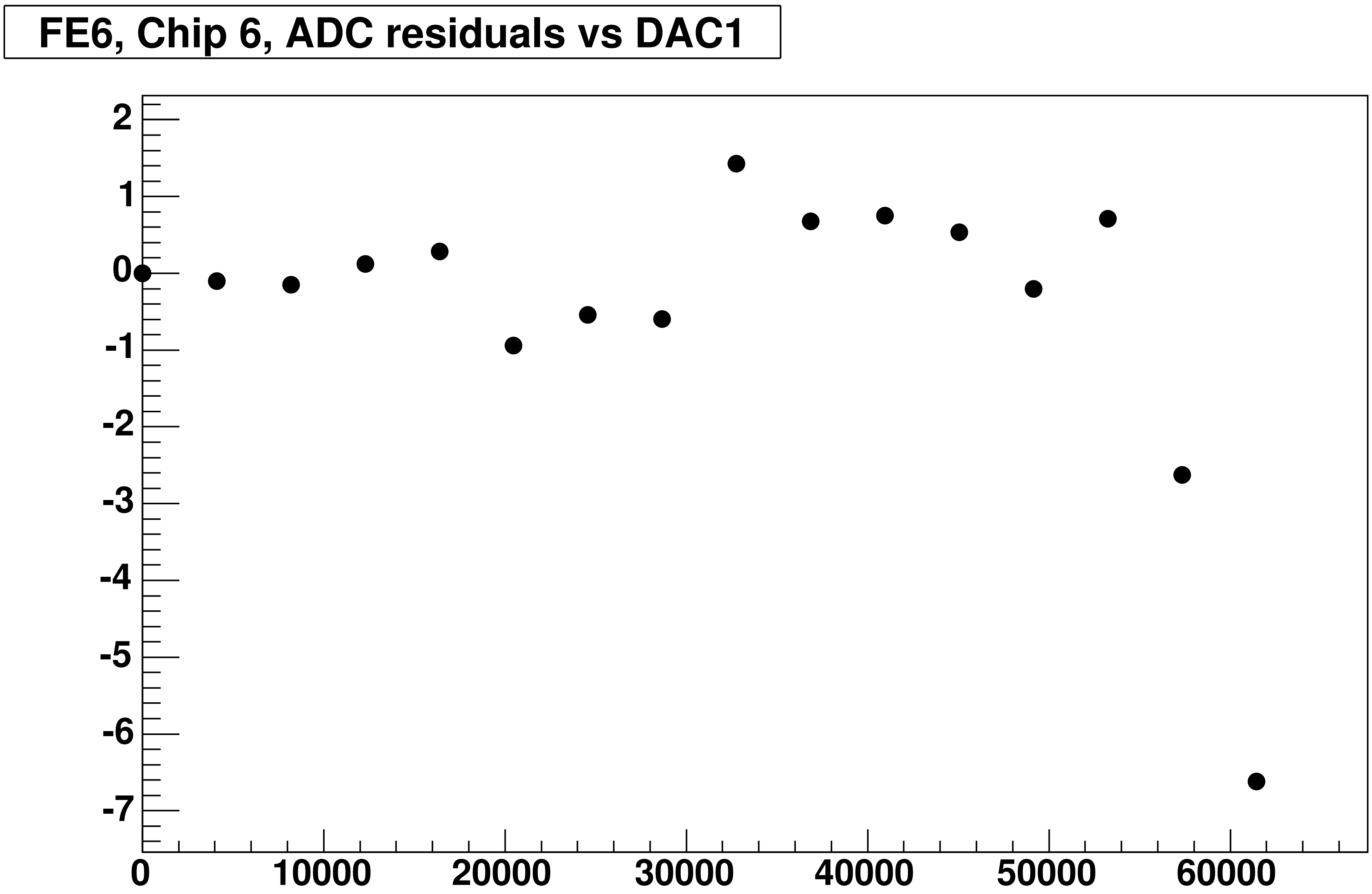
FE6, Chip 6, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

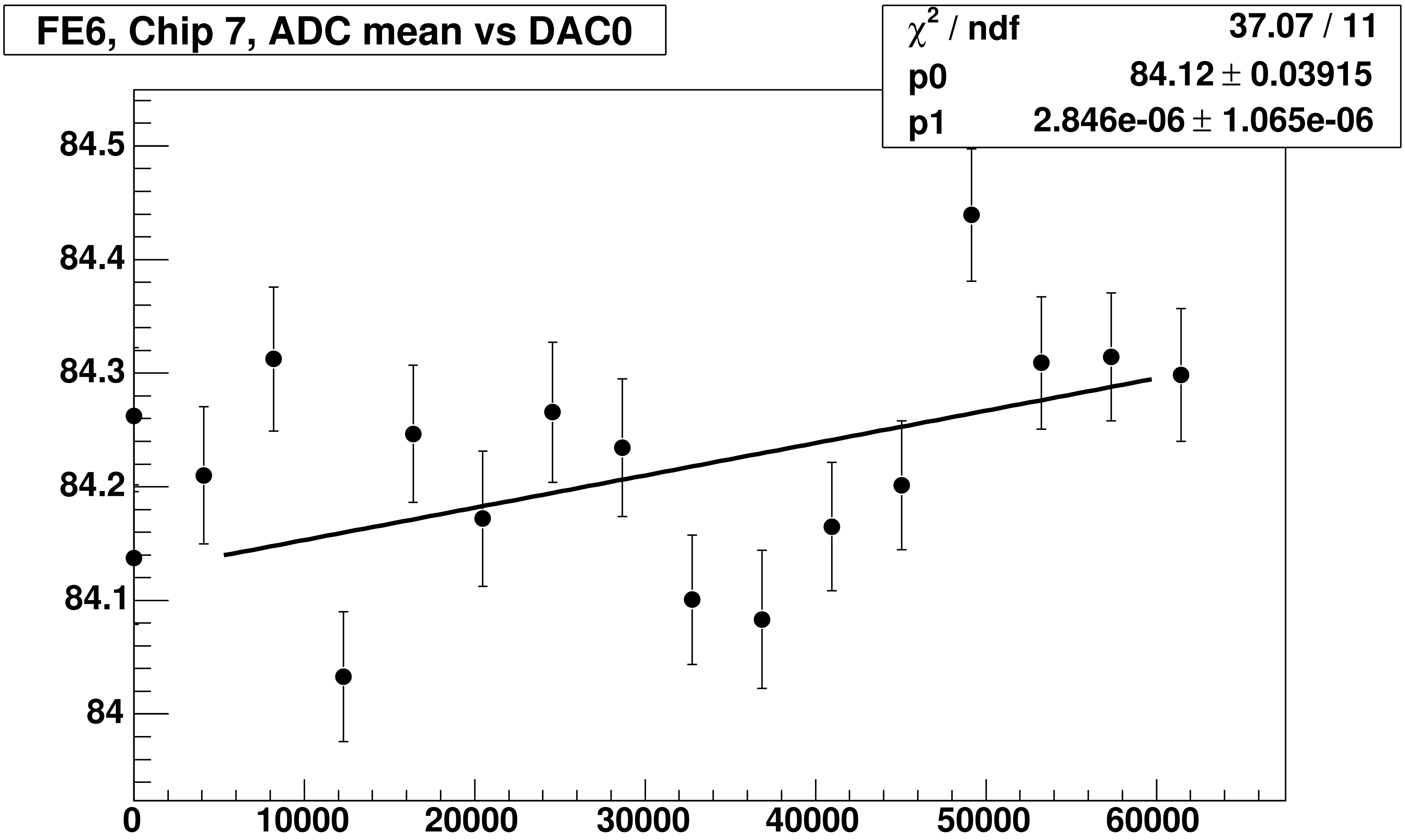


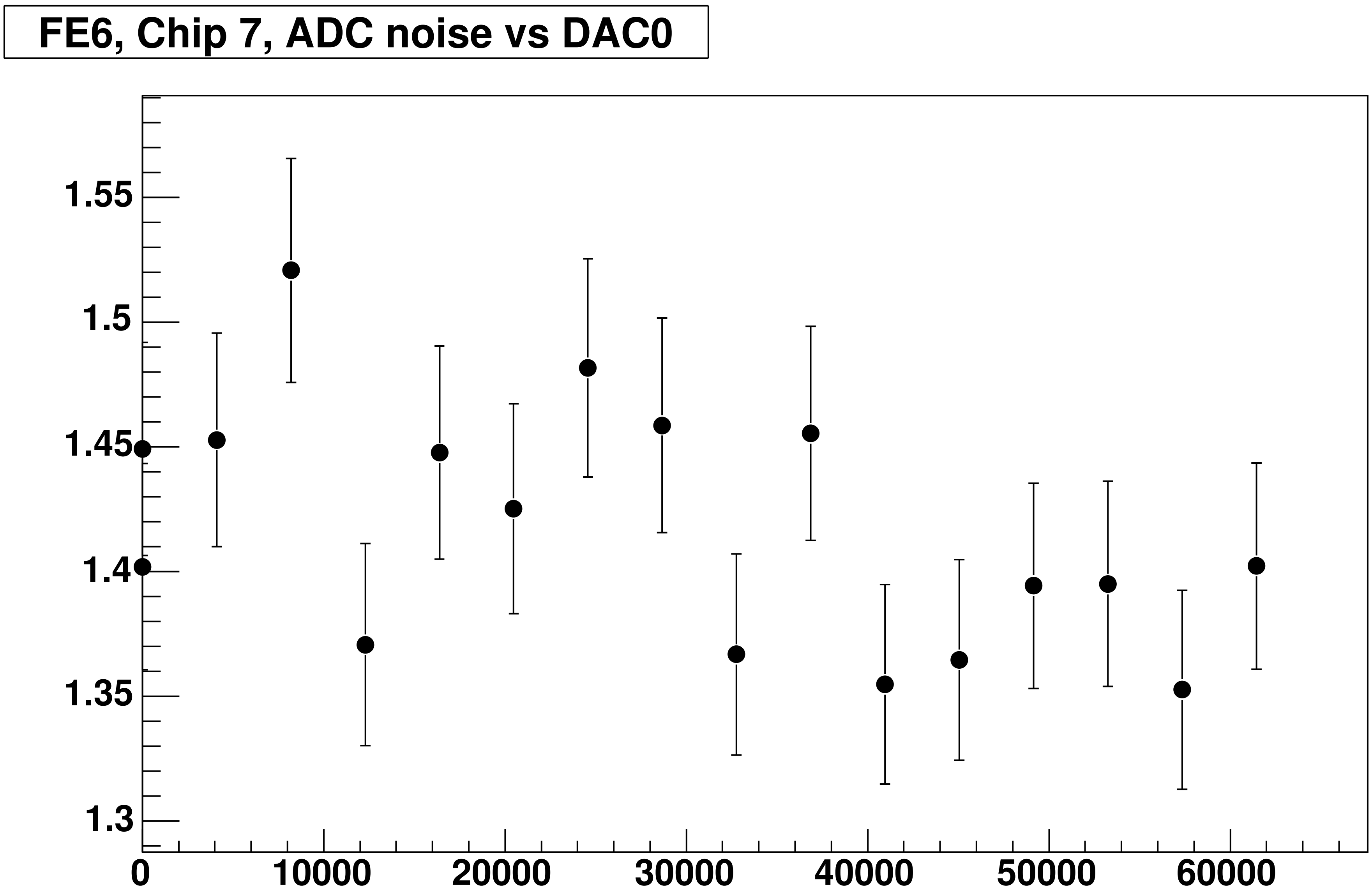
FE6, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

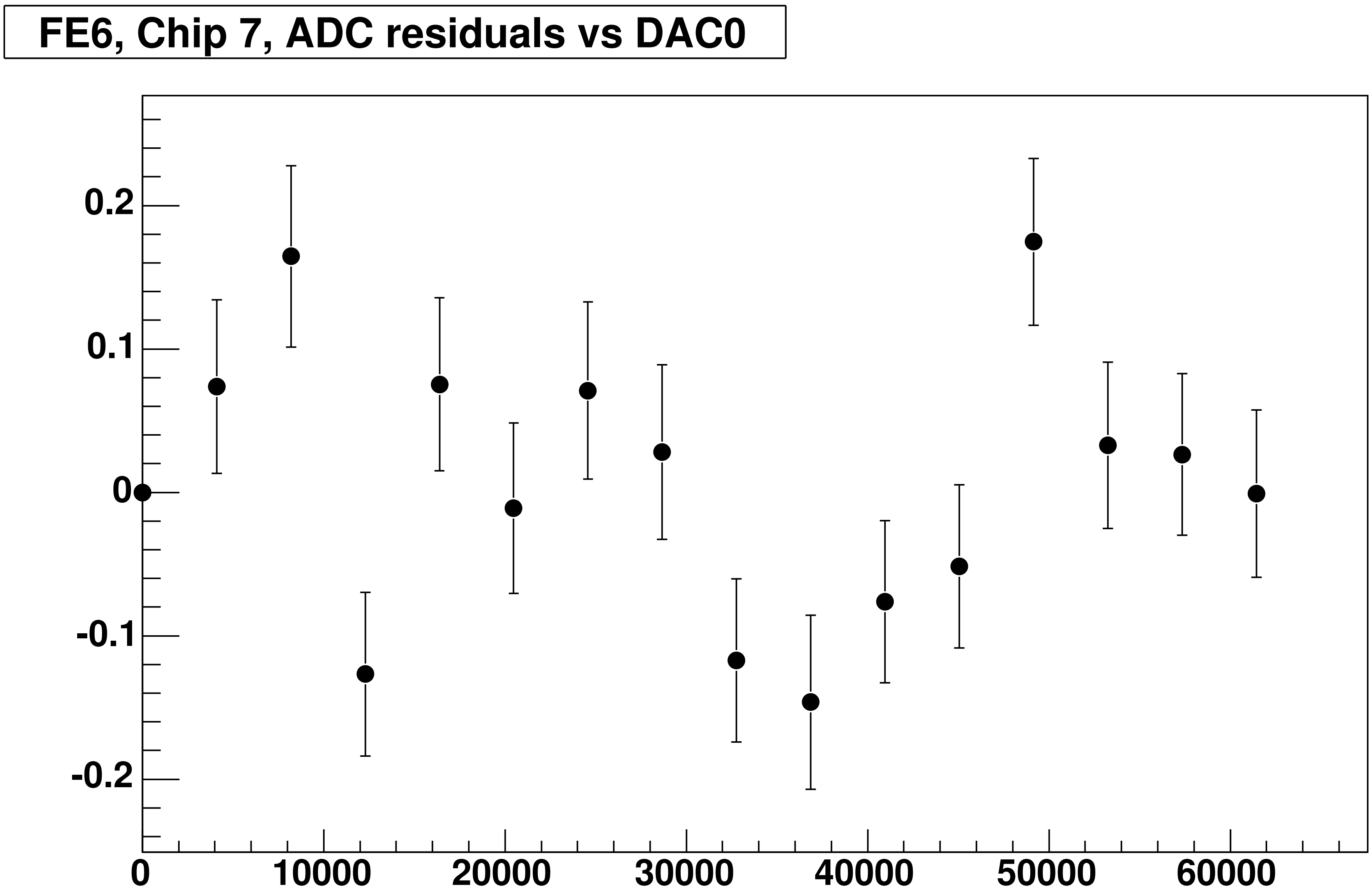

FE6, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1841 / 11
p0 79.61 ± 0.04135
p1 0.4499 ± 1.331e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


FE6, 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

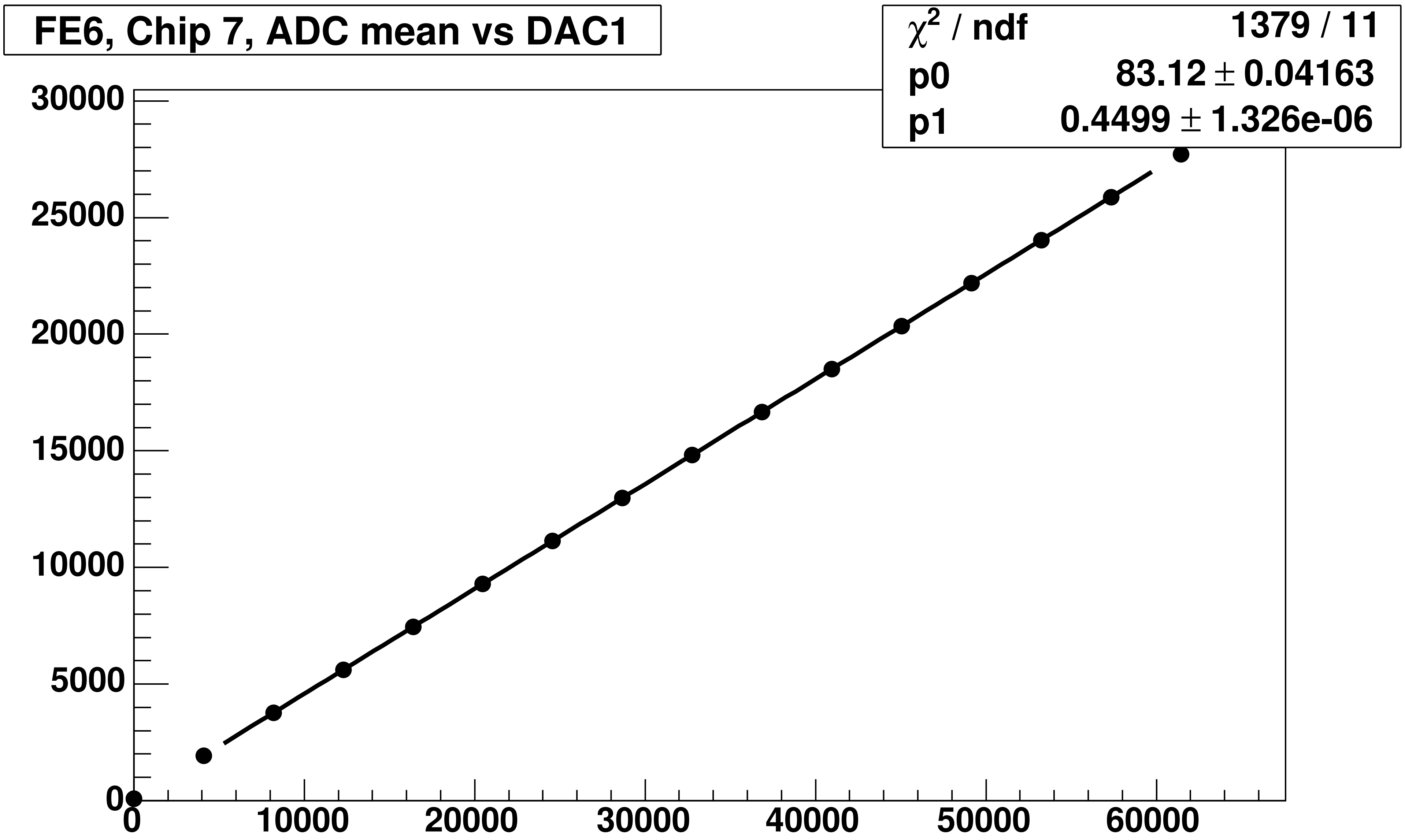

FE6, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

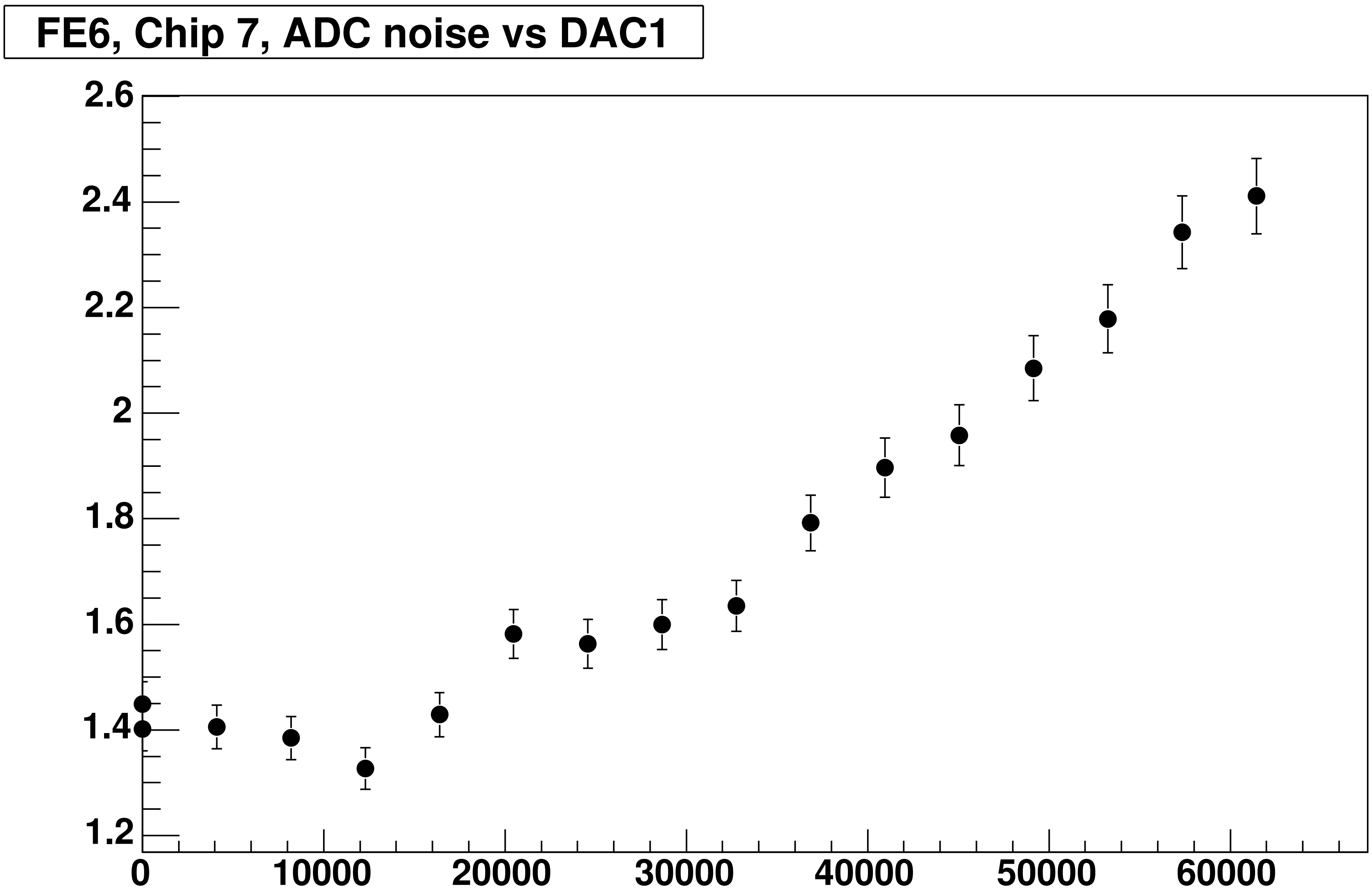

FE6, Chip 7, ADC mean vs DAC0
χ² / ndf 37.07 / 11
p0 84.12 ± 0.03915
p1 2.846e-06 ± 1.065e-06
84.5
84.4
84.3
84.2
84.1
84
0
10000
20000
30000
40000
50000
60000


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

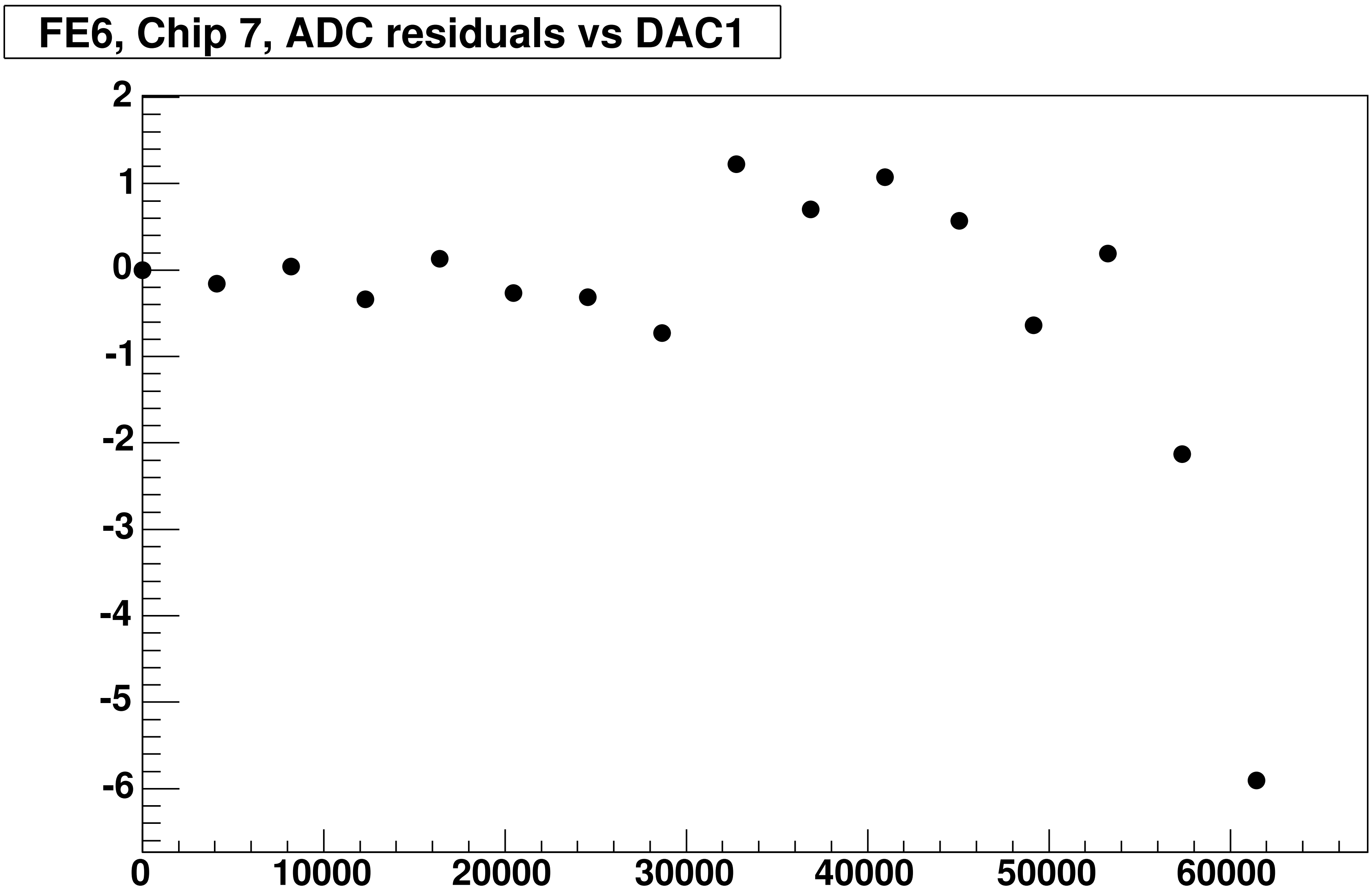


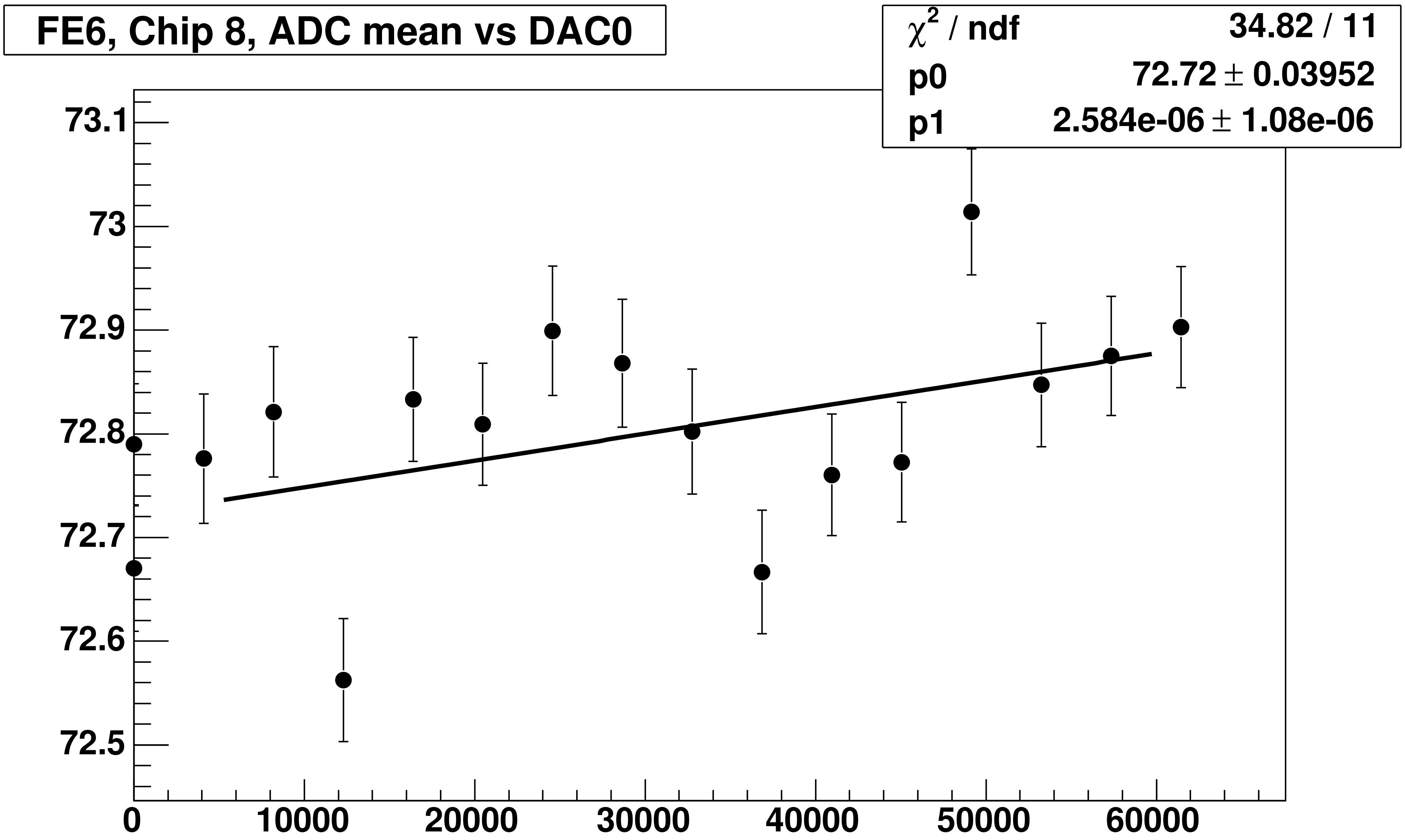
FE6, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

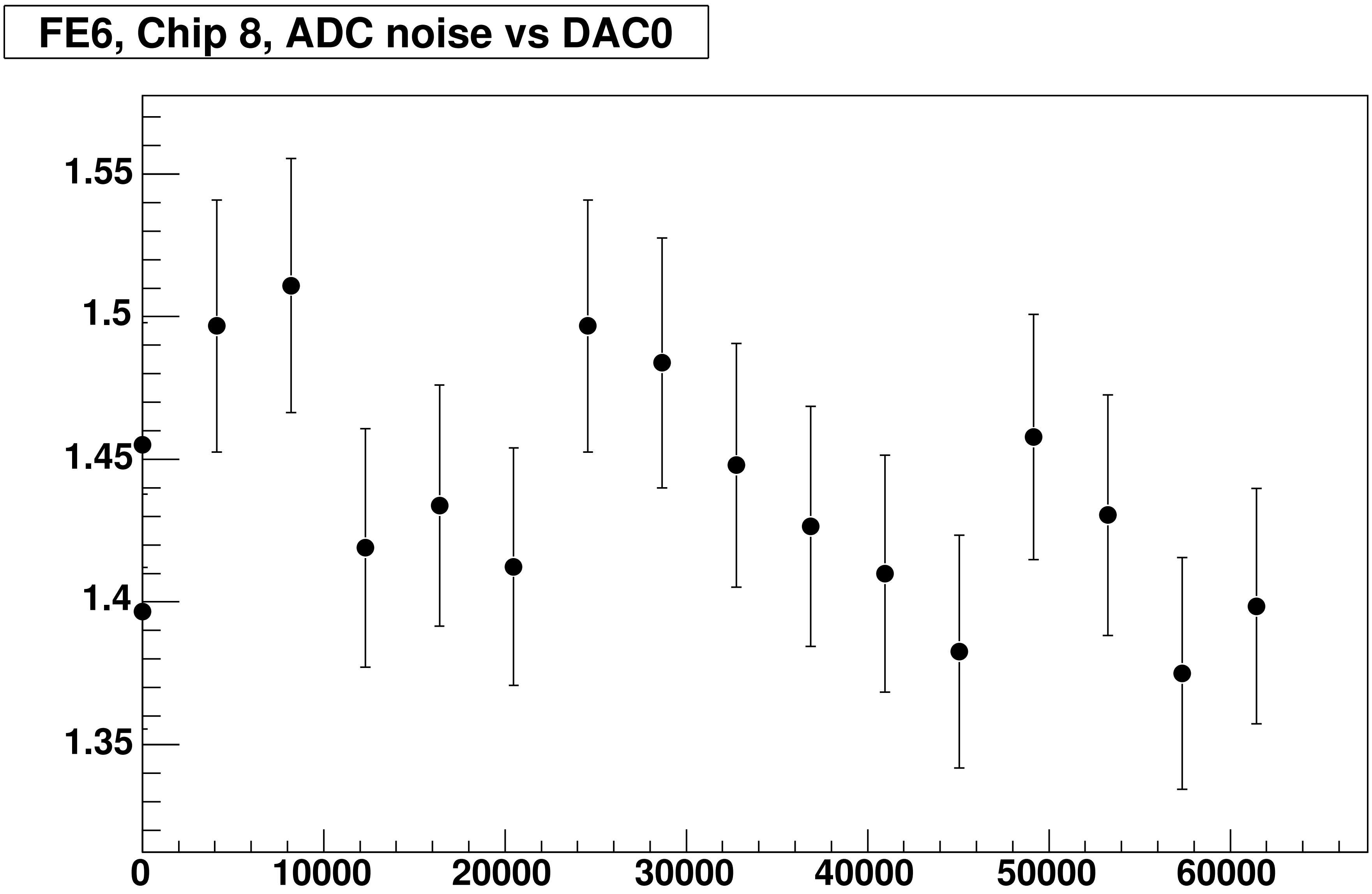

FE6, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1379 / 11
p0 83.12 ± 0.04163
p1 0.4499 ± 1.326e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

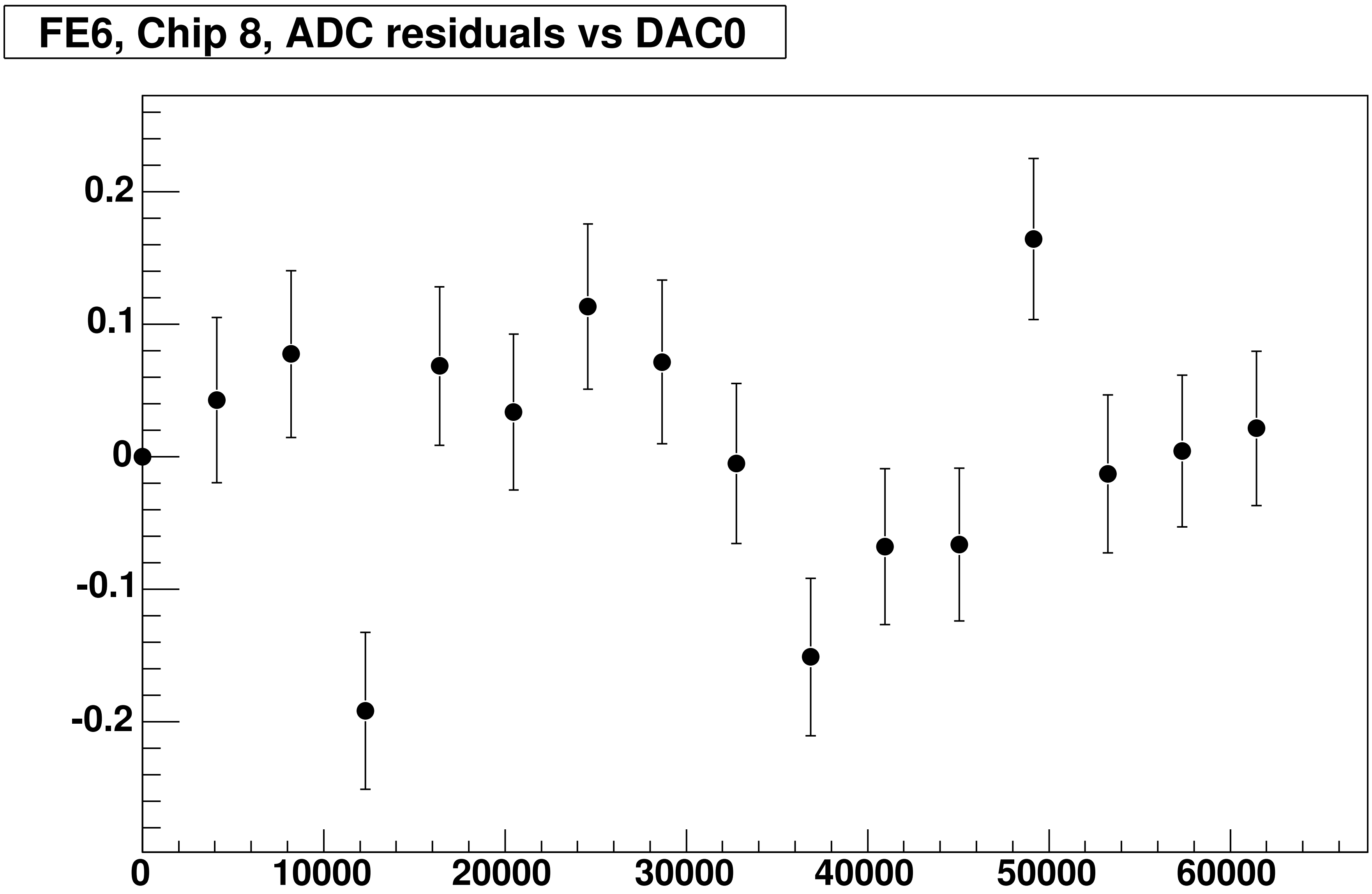


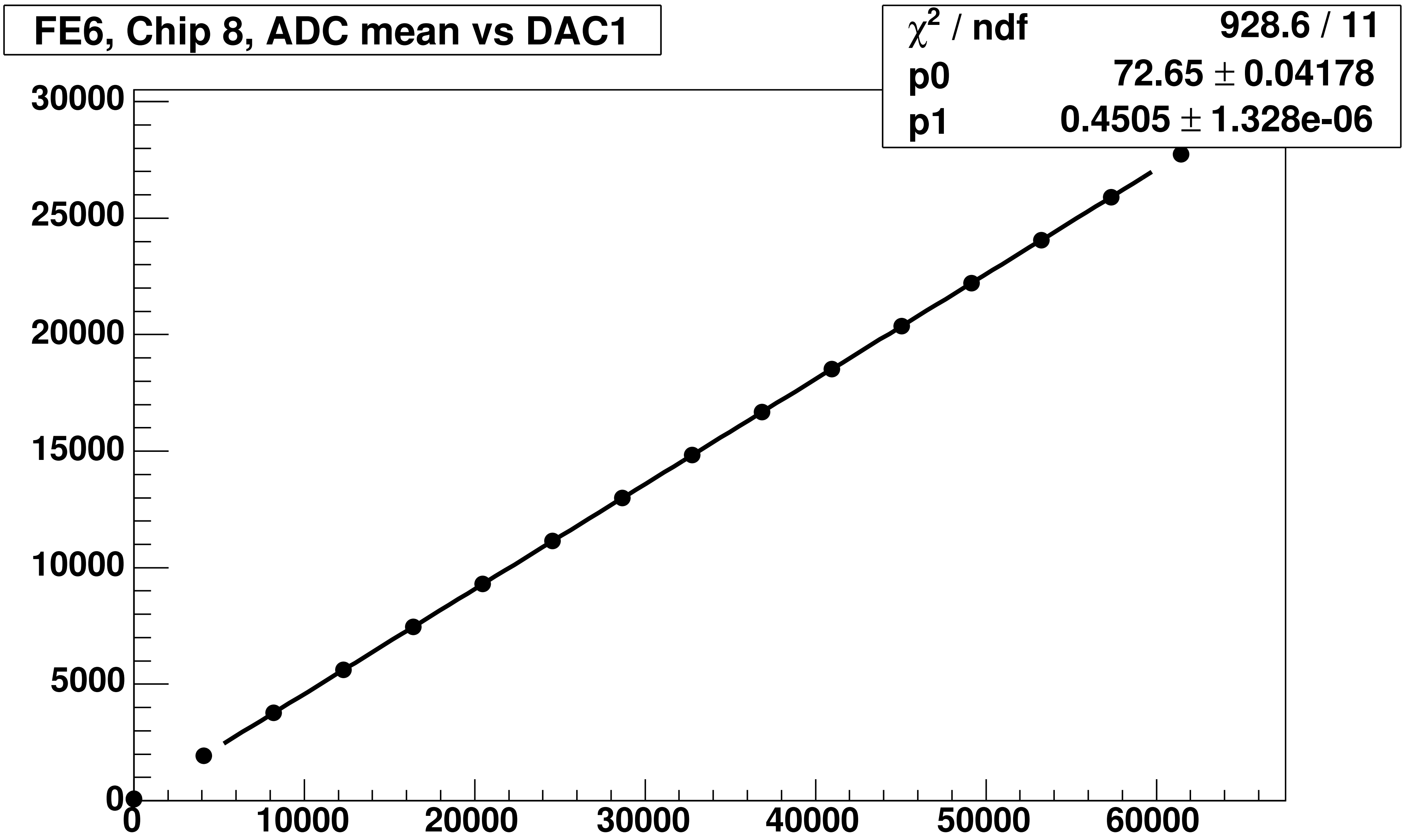
FE6, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

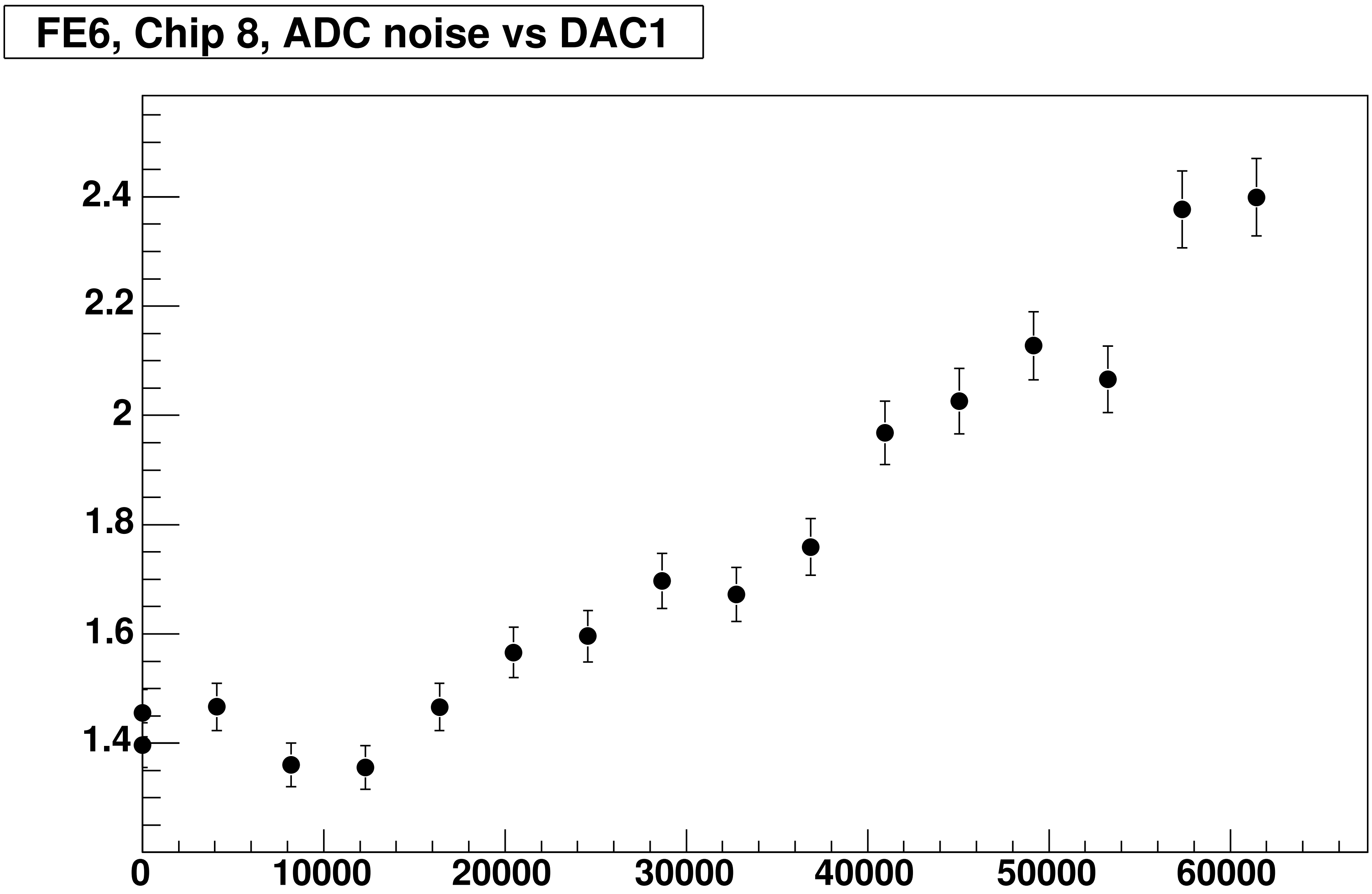

FE6, Chip 8, ADC mean vs DAC0
χ^2 / ndf 34.82 / 11
p0 72.72 ± 0.03952
p1 2.584e-06 ± 1.08e-06
73.1
73
72.9
72.8
72.7
72.6
72.5
0
10000
20000
30000
40000
50000
60000

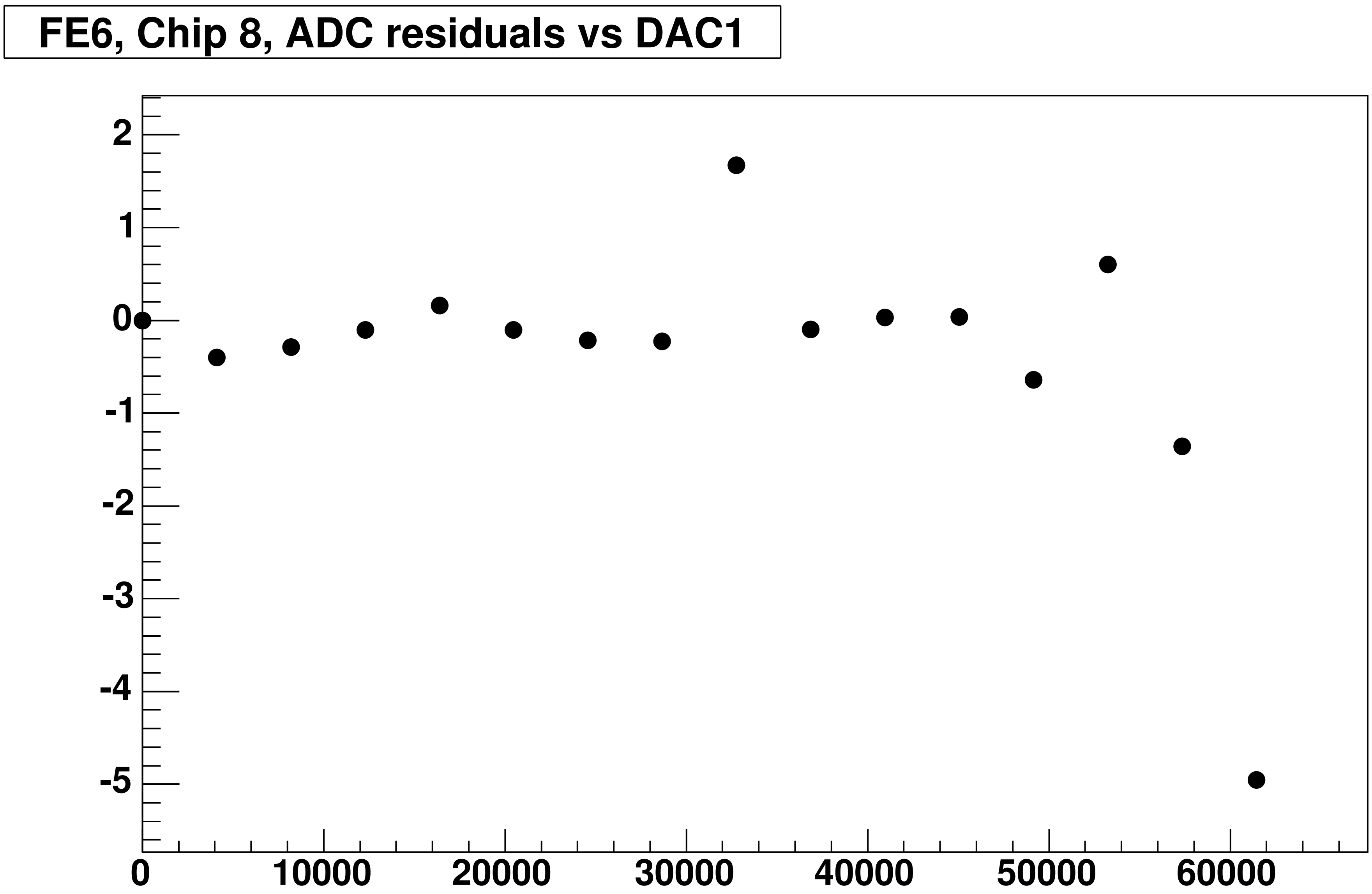

FE6, Chip 8, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

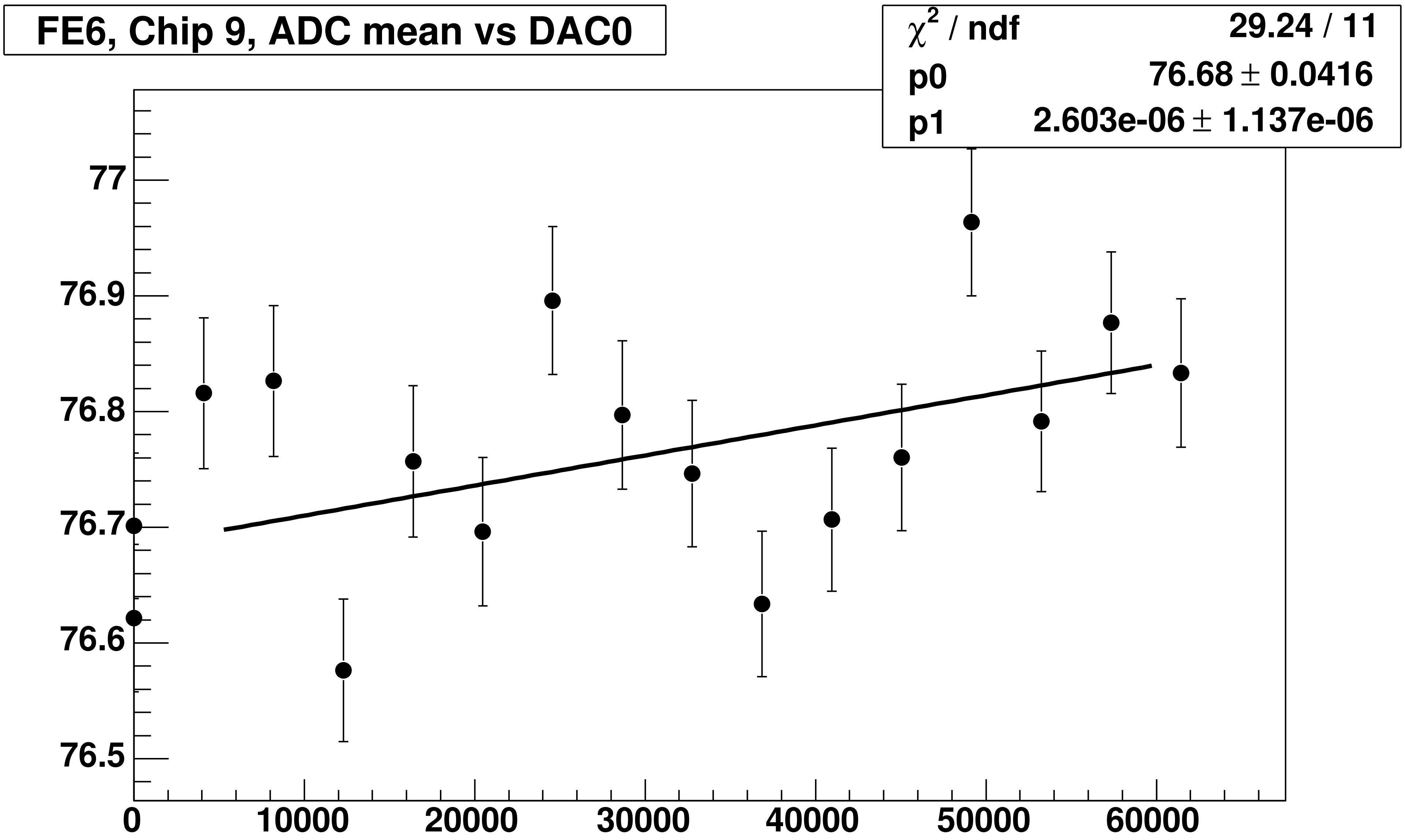

FE6, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



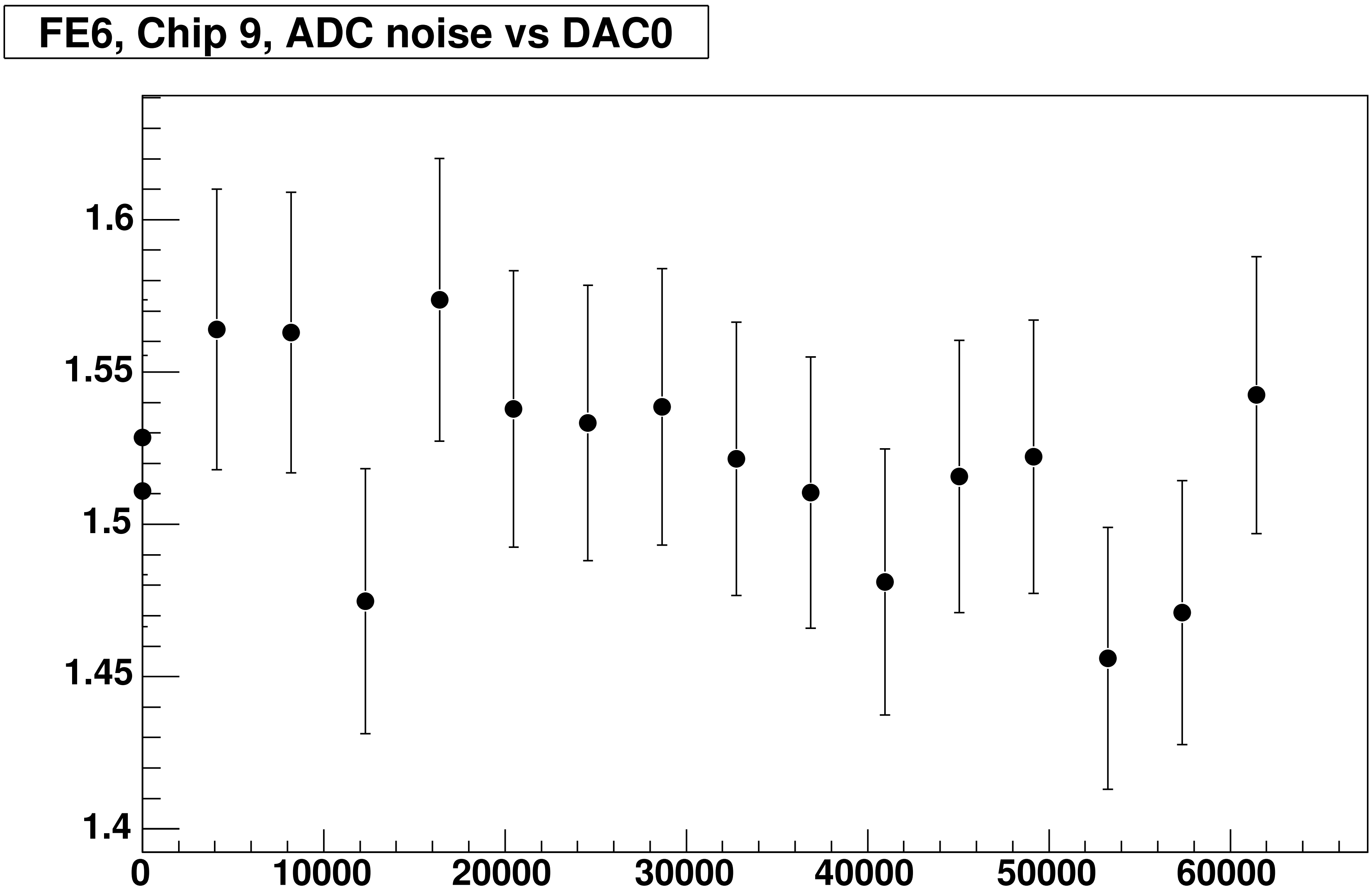
FE6, Chip 8, ADC mean vs DAC1
χ^2 / ndf 928.6 / 11
p0 72.65 ± 0.04178
p1 0.4505 ± 1.328e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

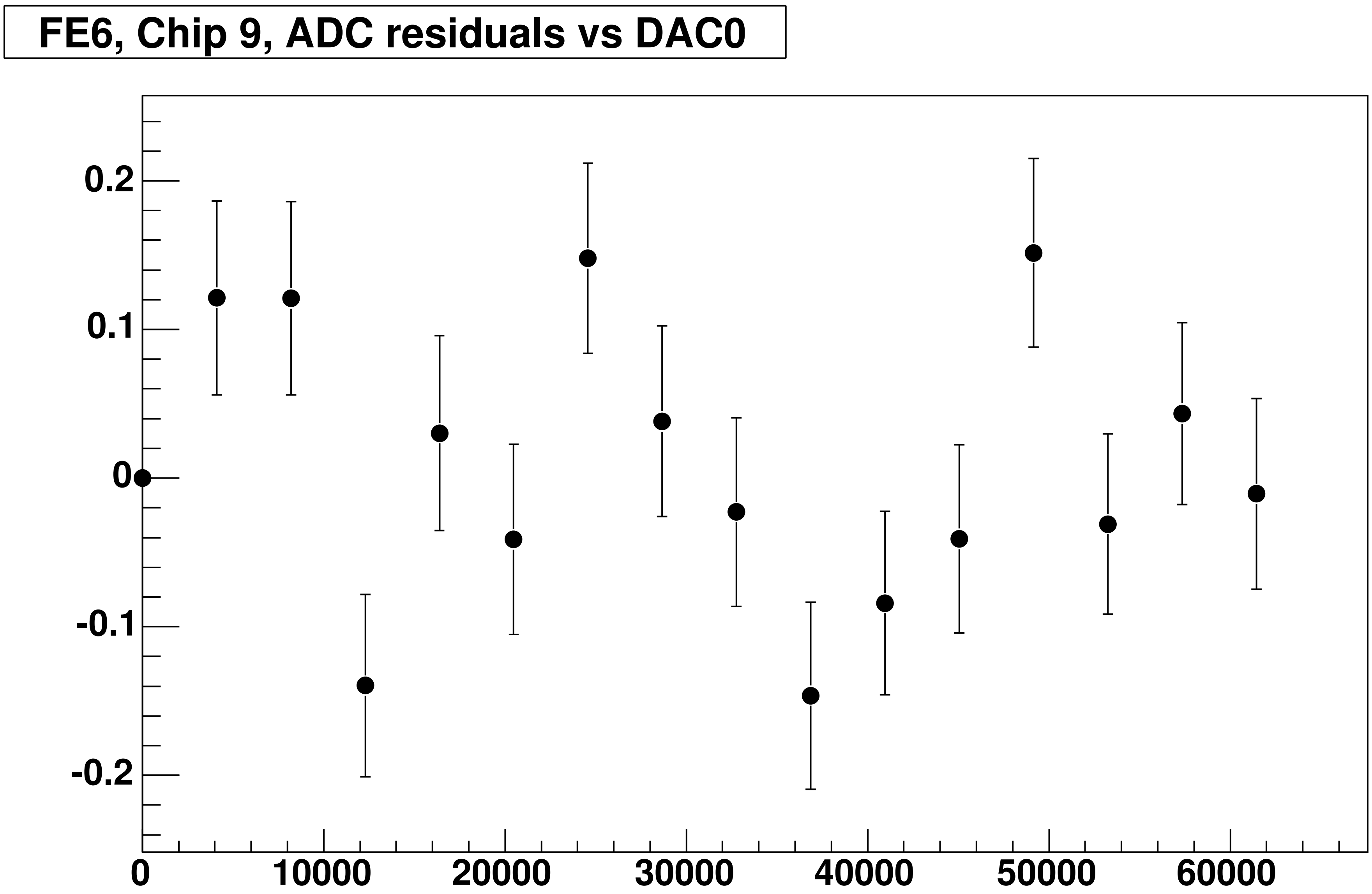

FE6, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

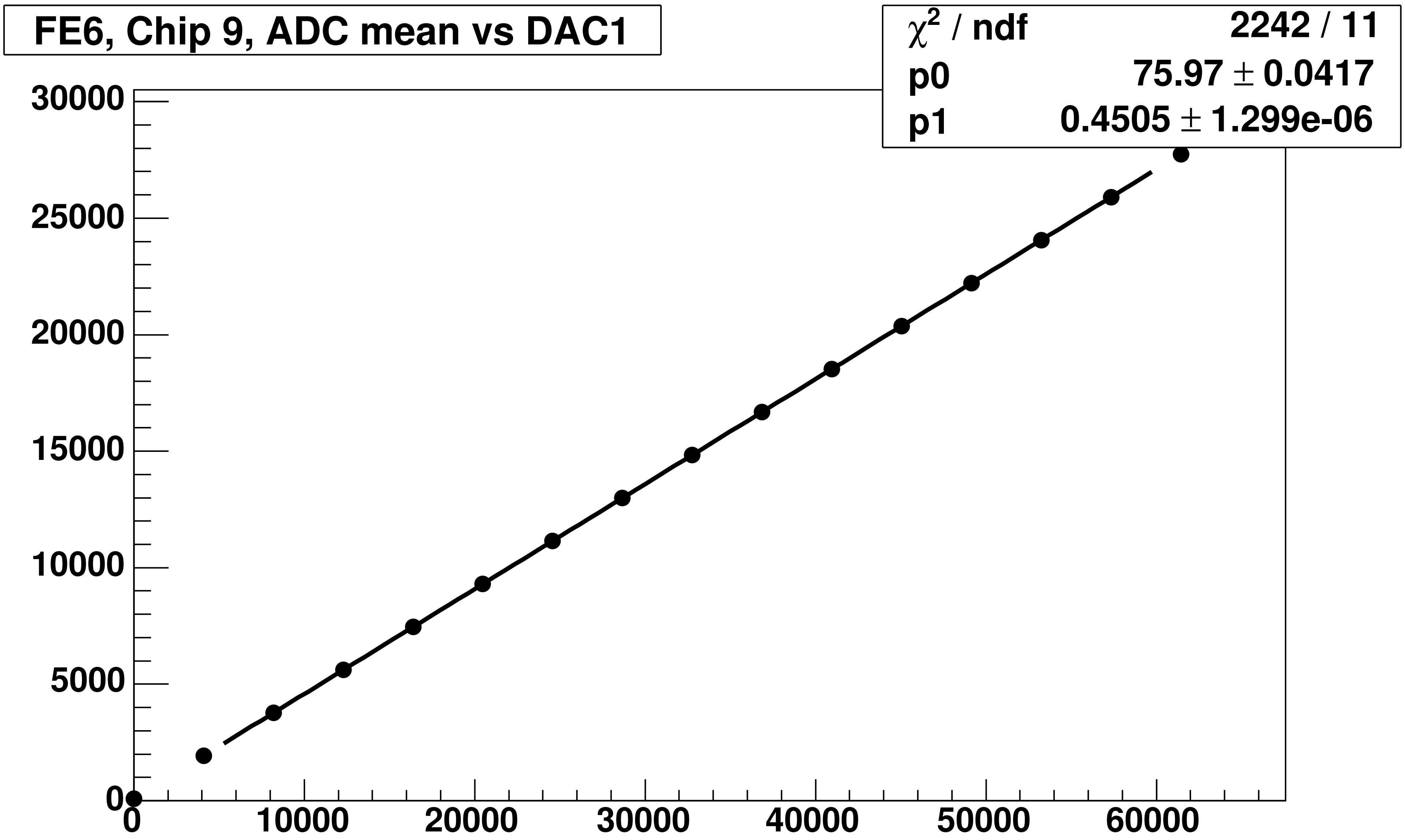

FE6, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

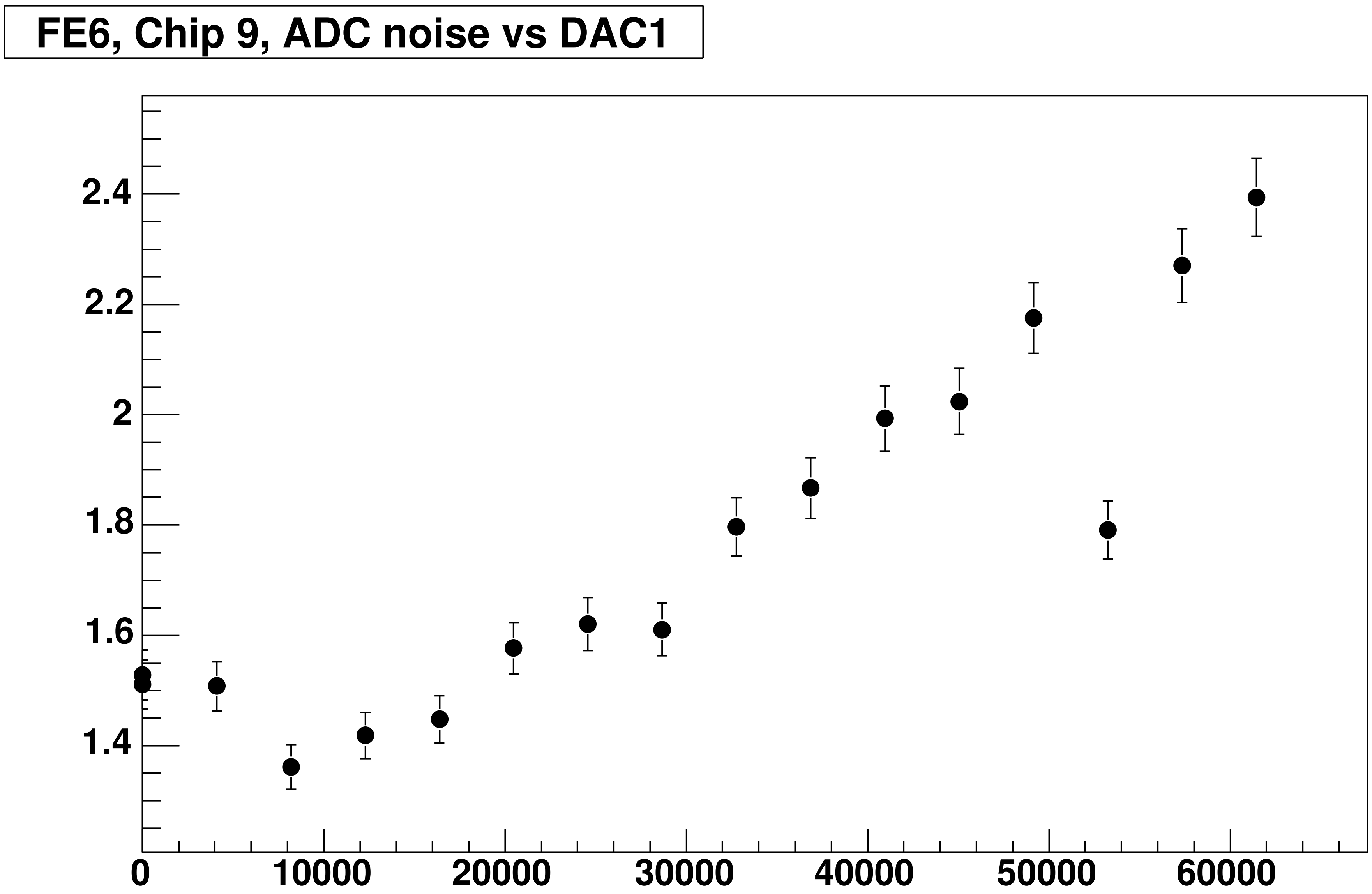


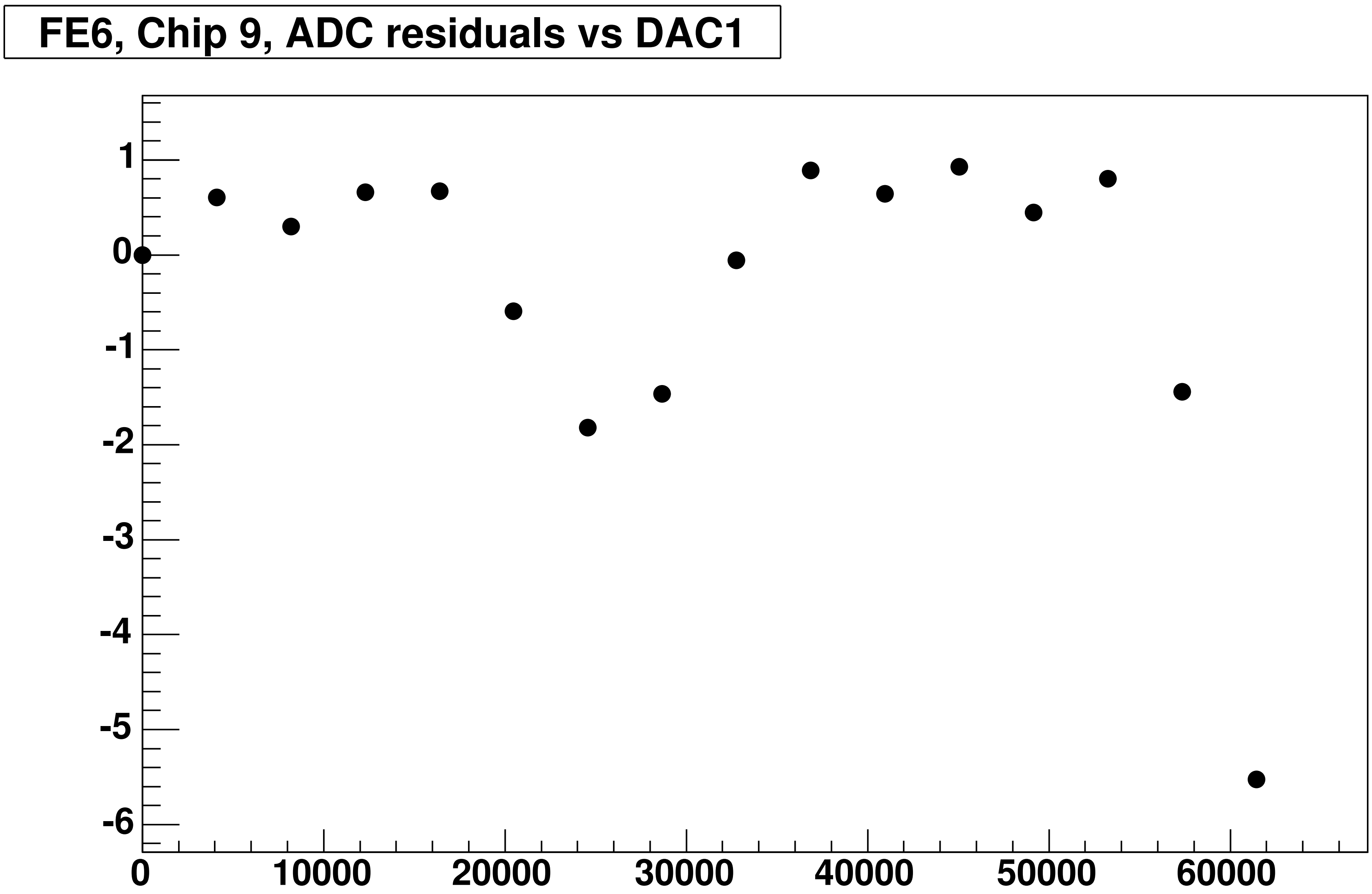
FE6, Chip 9, ADC mean vs DAC0
χ^2 / ndf 29.24 / 11
p0 76.68 ± 0.0416
p1 2.603e-06 ± 1.137e-06
77
76.9
76.8
76.7
76.6
76.5
0
10000
20000
30000
40000
50000
60000

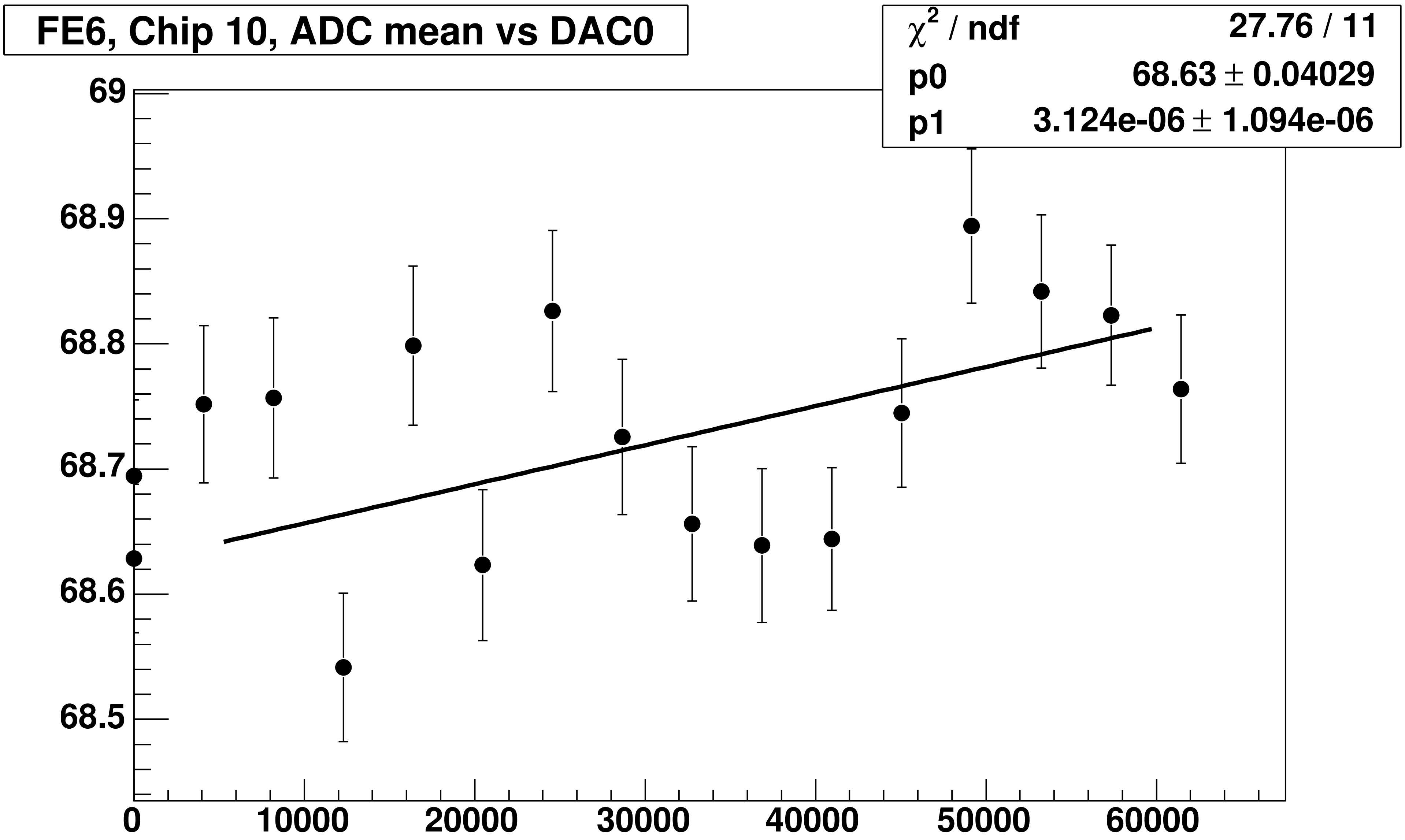

FE6, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

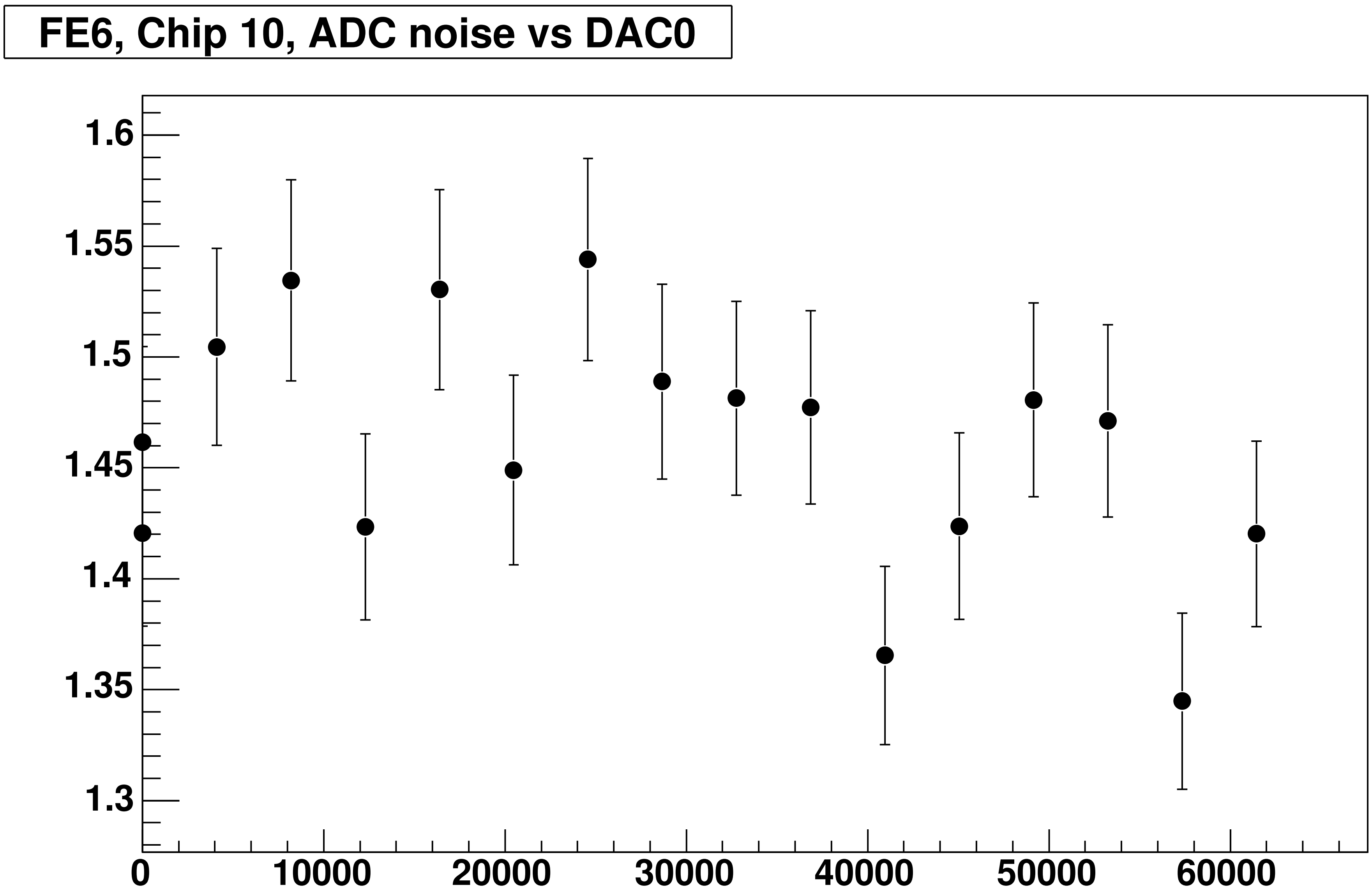

FE6, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

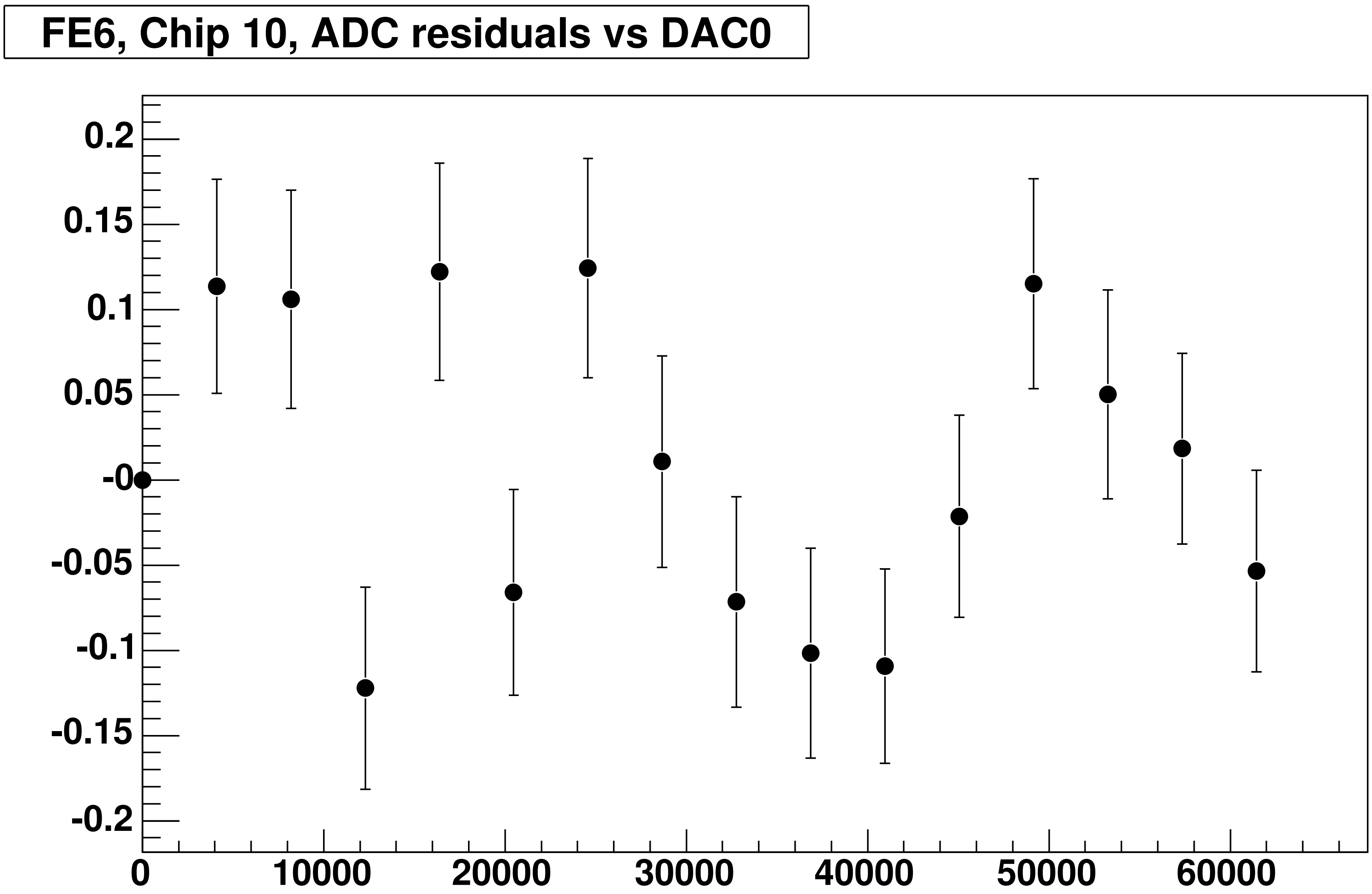

FE6, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2242 / 11
p0 75.97 ± 0.0417
p1 0.4505 ± 1.299e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

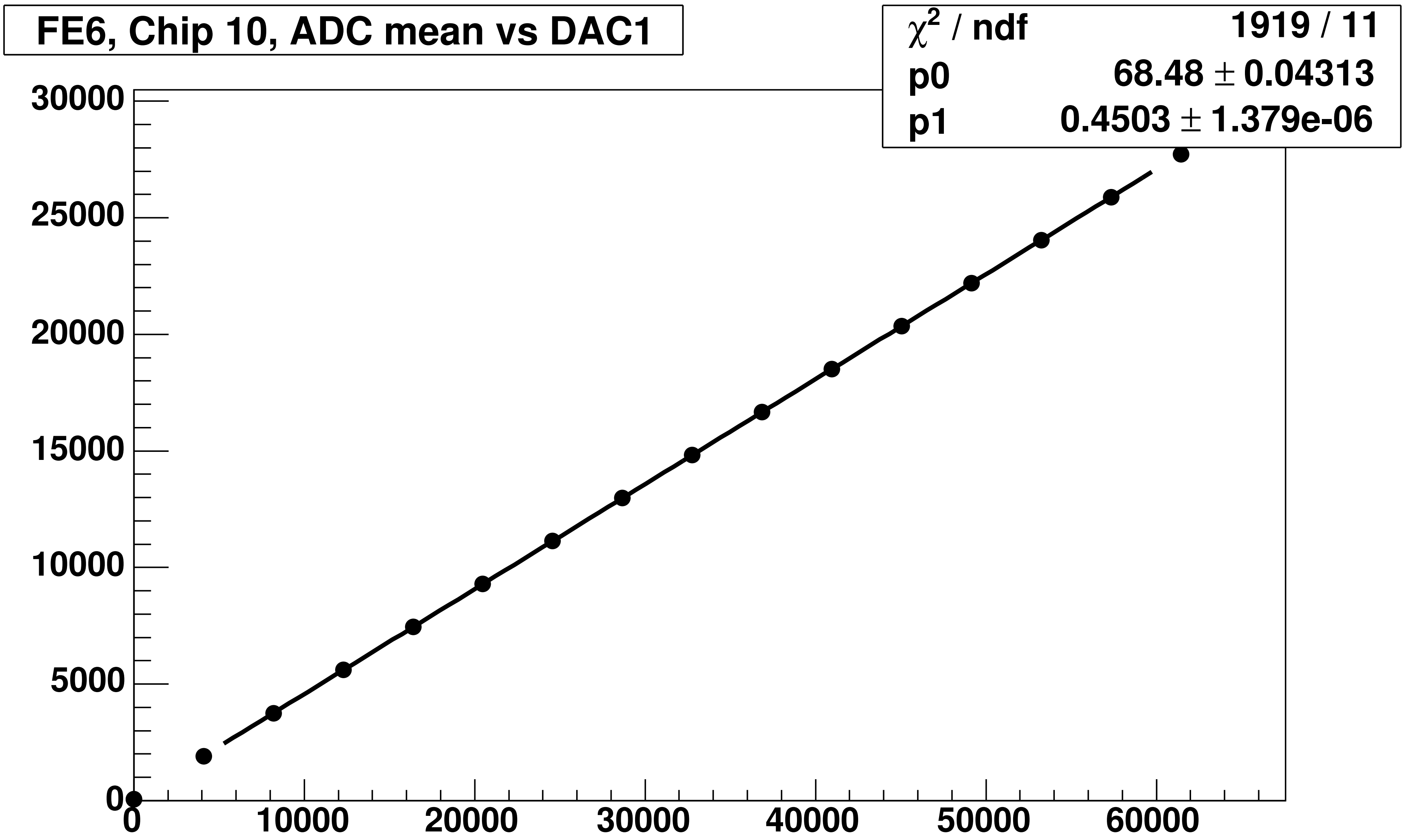

FE6, Chip 9, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

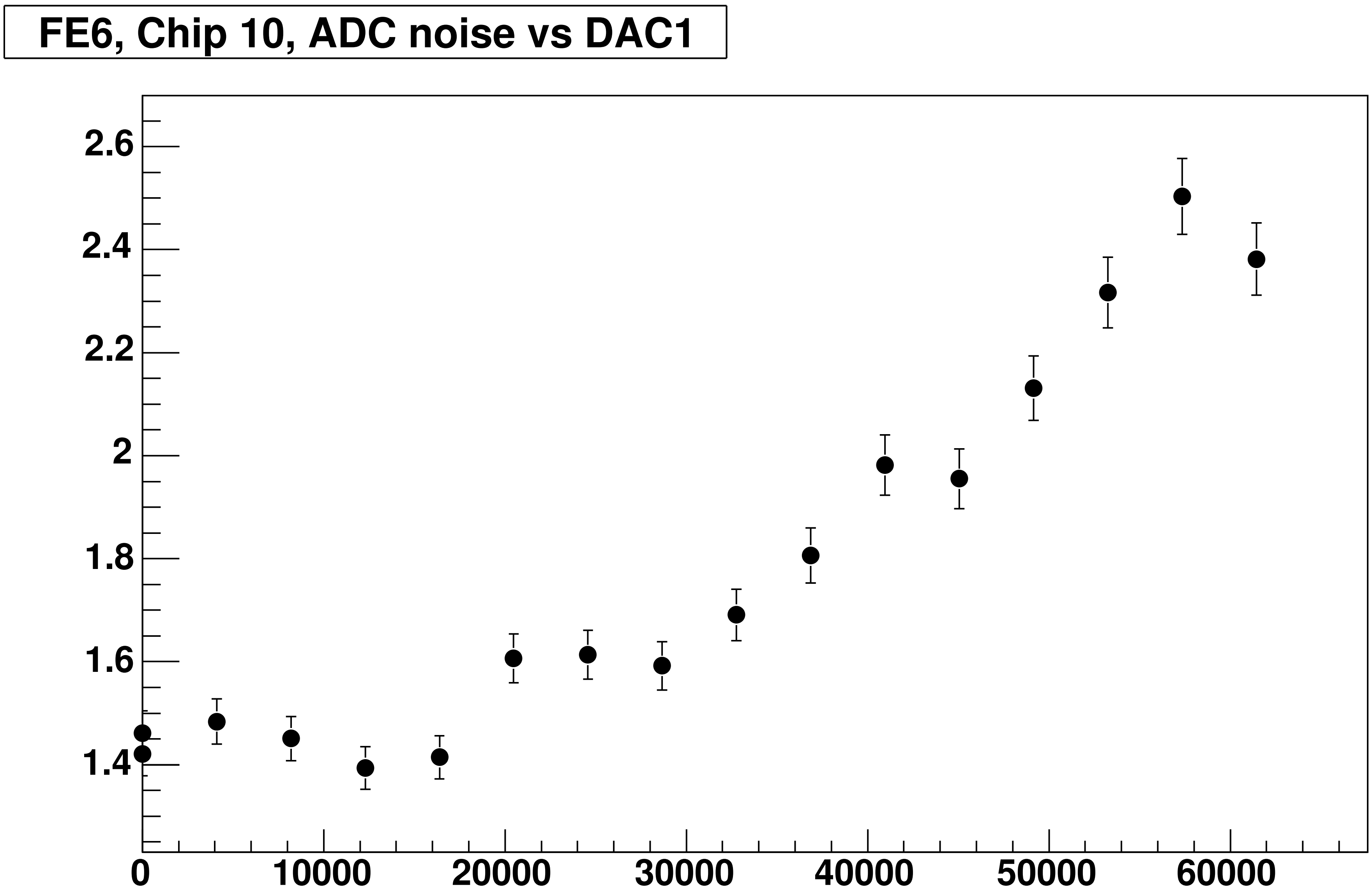

FE6, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

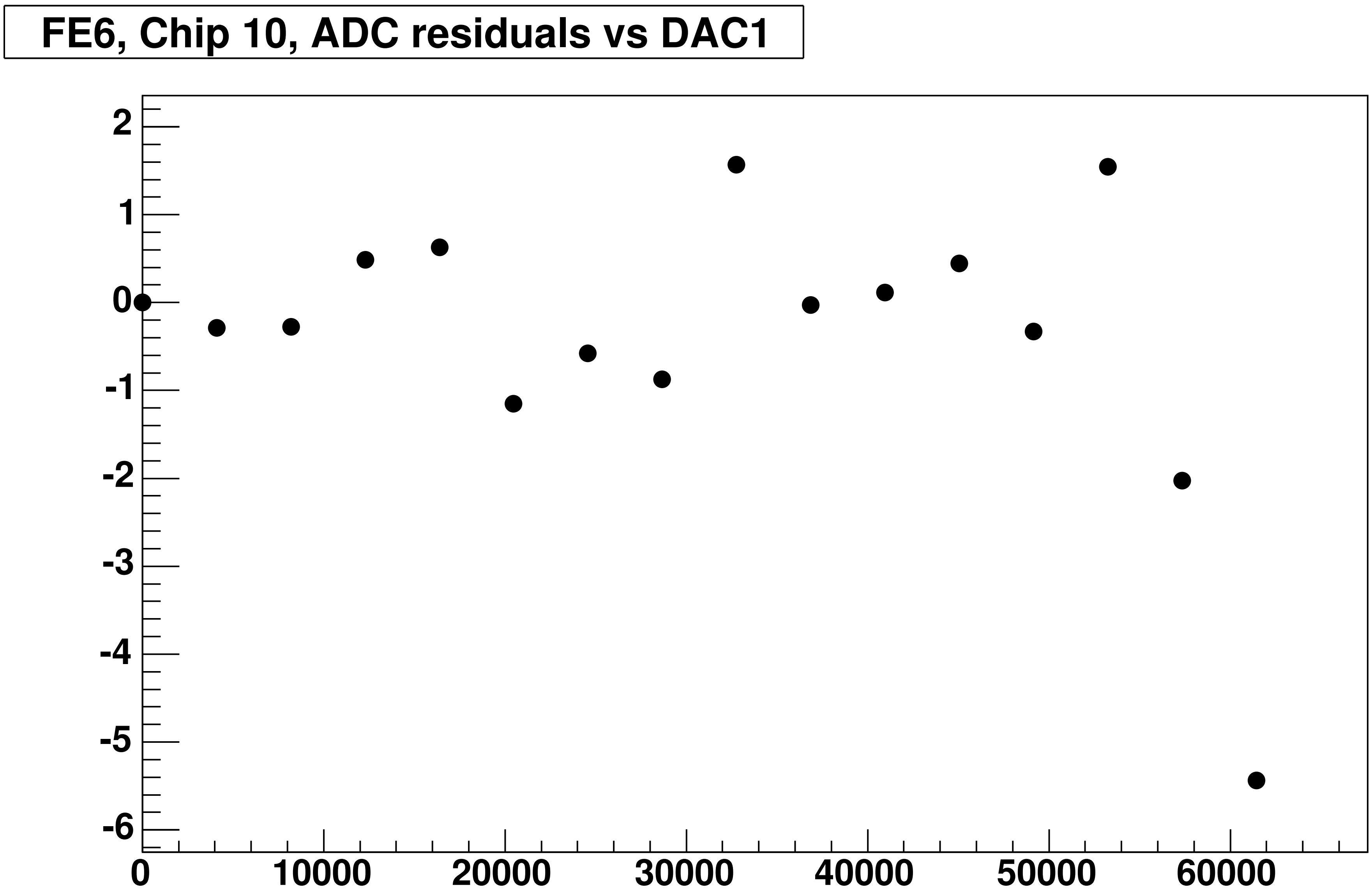

FE6, Chip 10, ADC mean vs DAC0
χ^2 / ndf 27.76 / 11
p0 68.63 ± 0.04029
p1 3.124e-06 ± 1.094e-06
69
68.9
68.8
68.7
68.6
68.5
0
10000
20000
30000
40000
50000
60000

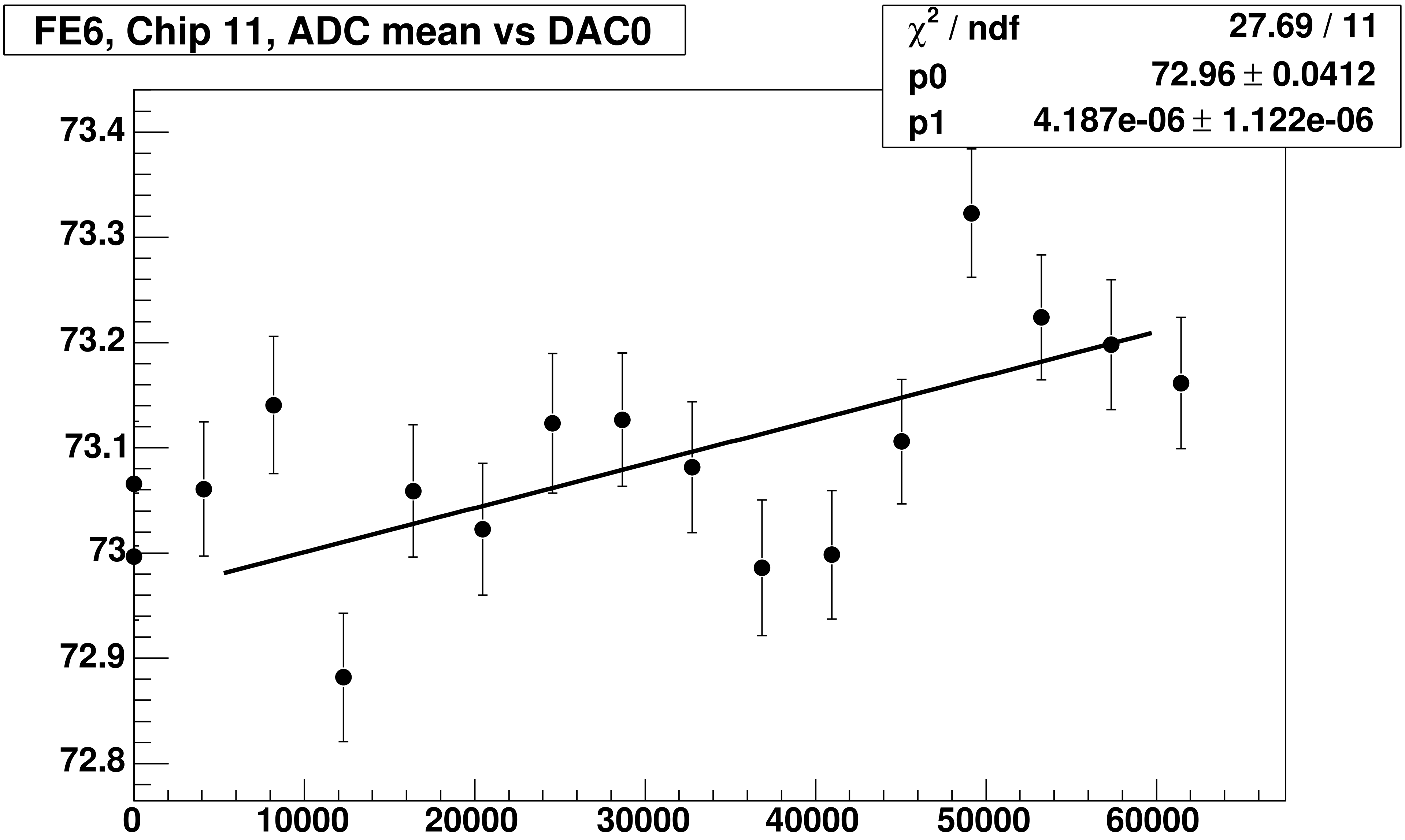

FE6, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

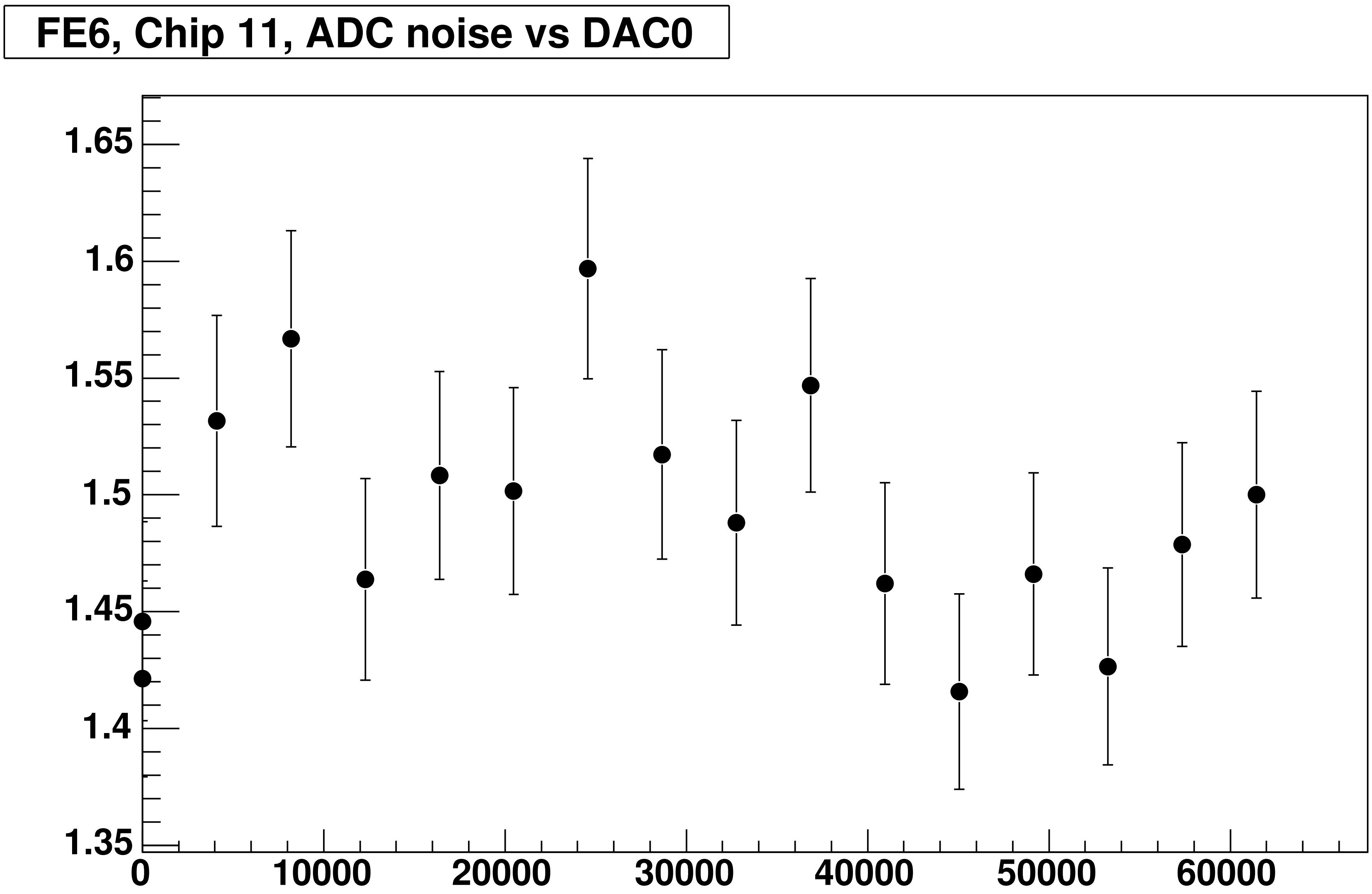

FE6, Chip 10, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

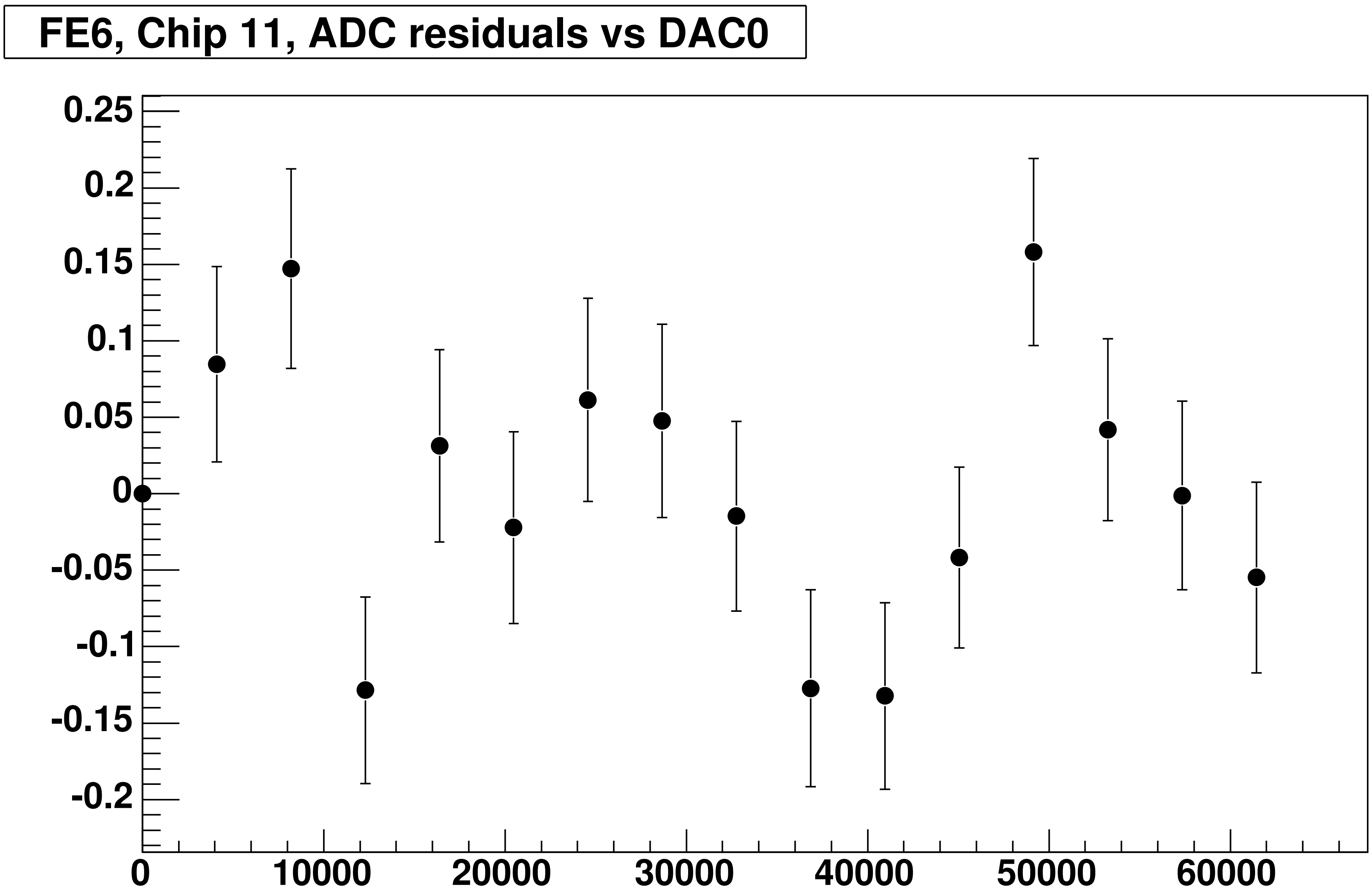

FE6, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1919 / 11
p0 68.48 ± 0.04313
p1 0.4503 ± 1.379e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

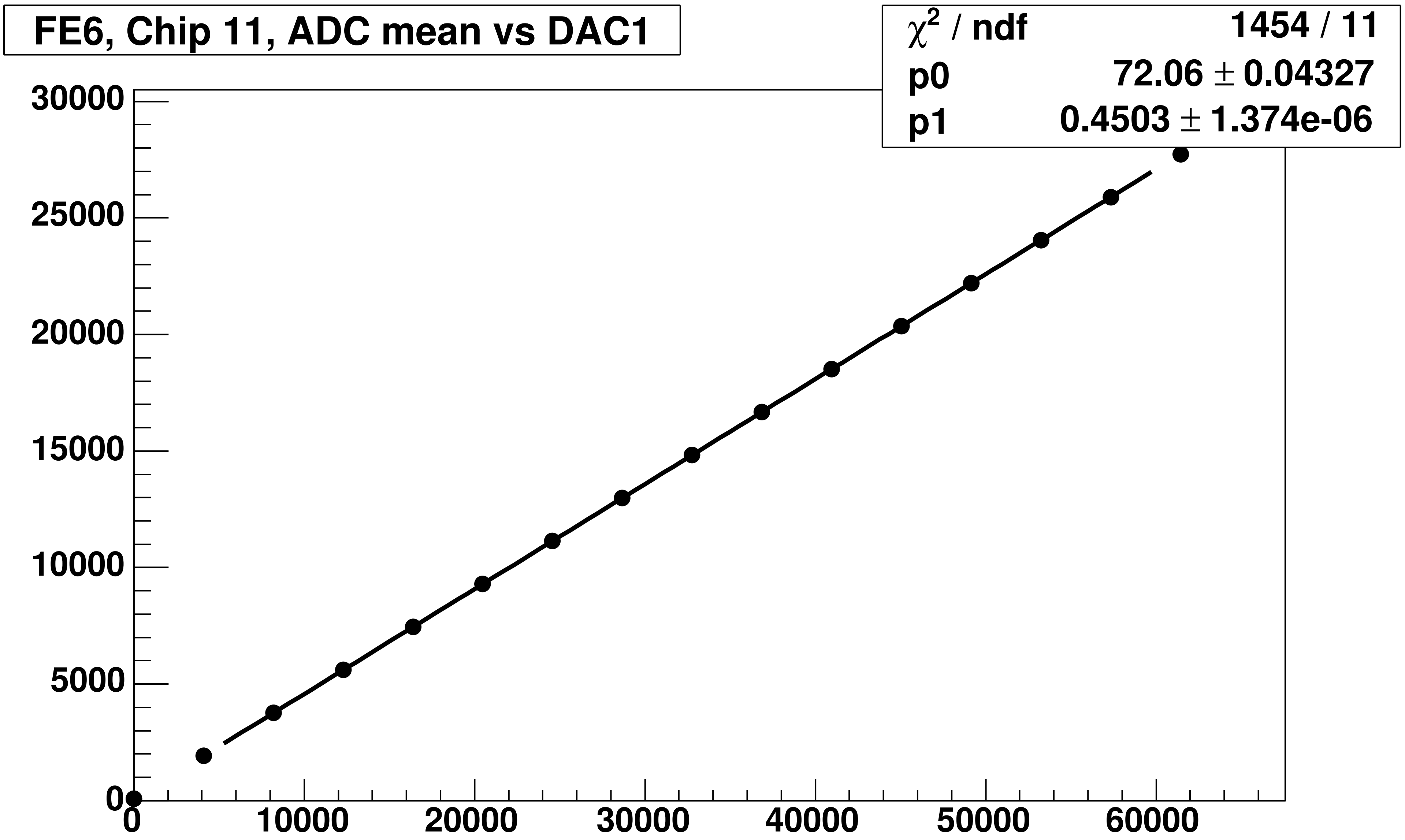

FE6, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE6, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

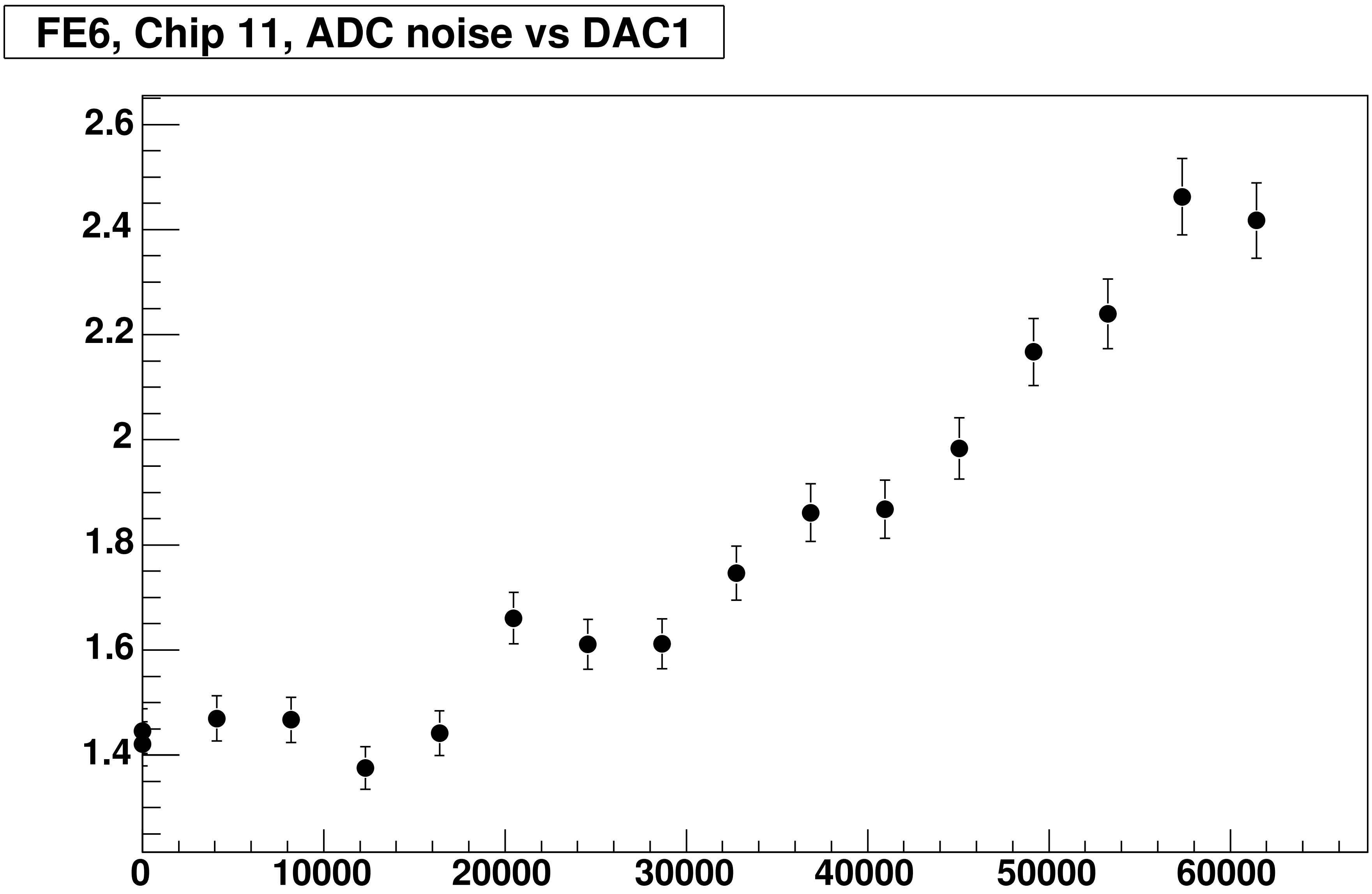

FE6, Chip 11, ADC mean vs DAC0
χ² / ndf 27.69 / 11
p0 72.96 ± 0.0412
p1 4.187e-06 ± 1.122e-06
73.4
73.3
73.2
73.1
73
72.9
72.8
0
10000
20000
30000
40000
50000
60000

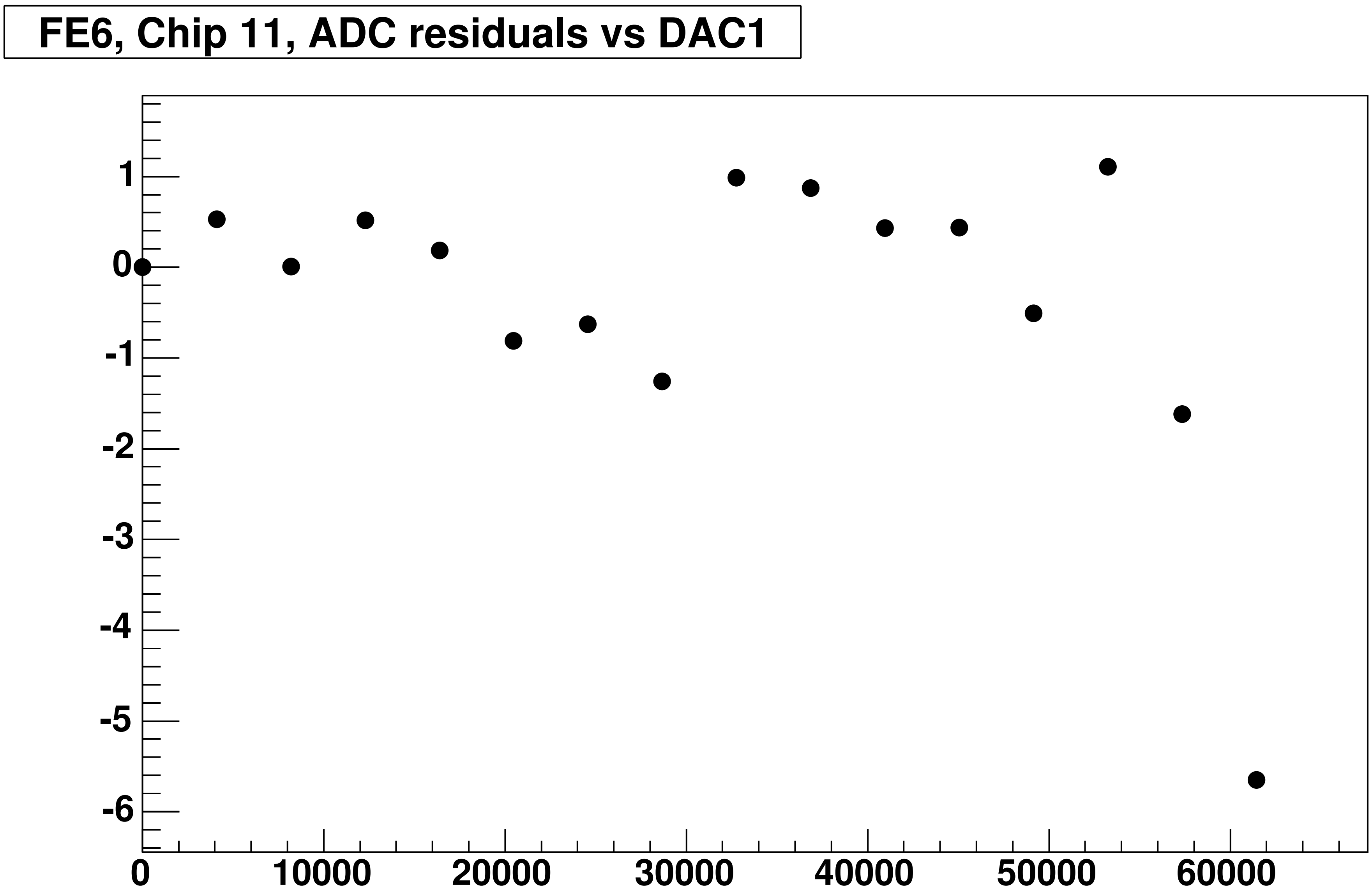

FE6, Chip 11, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

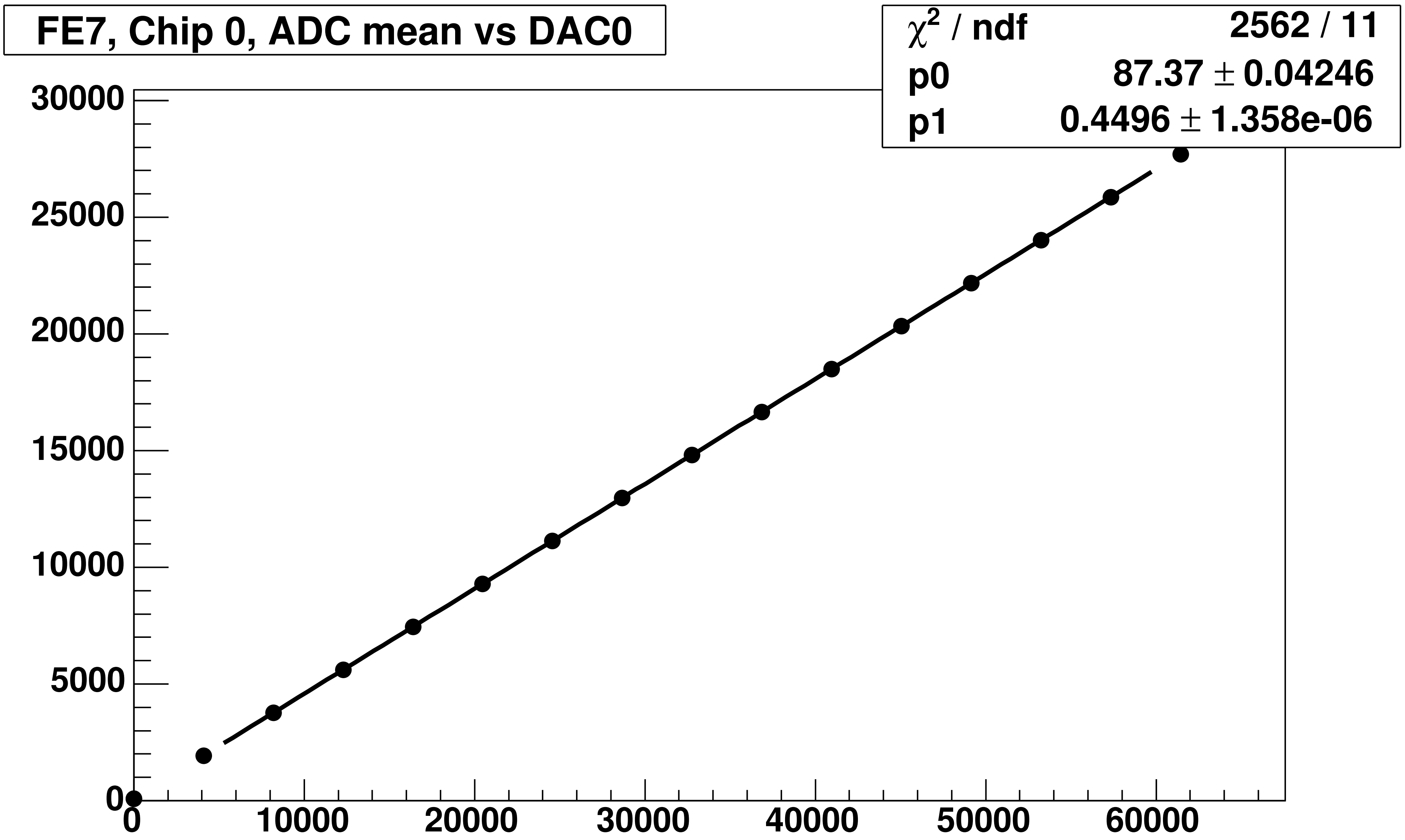

FE6, Chip 11, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

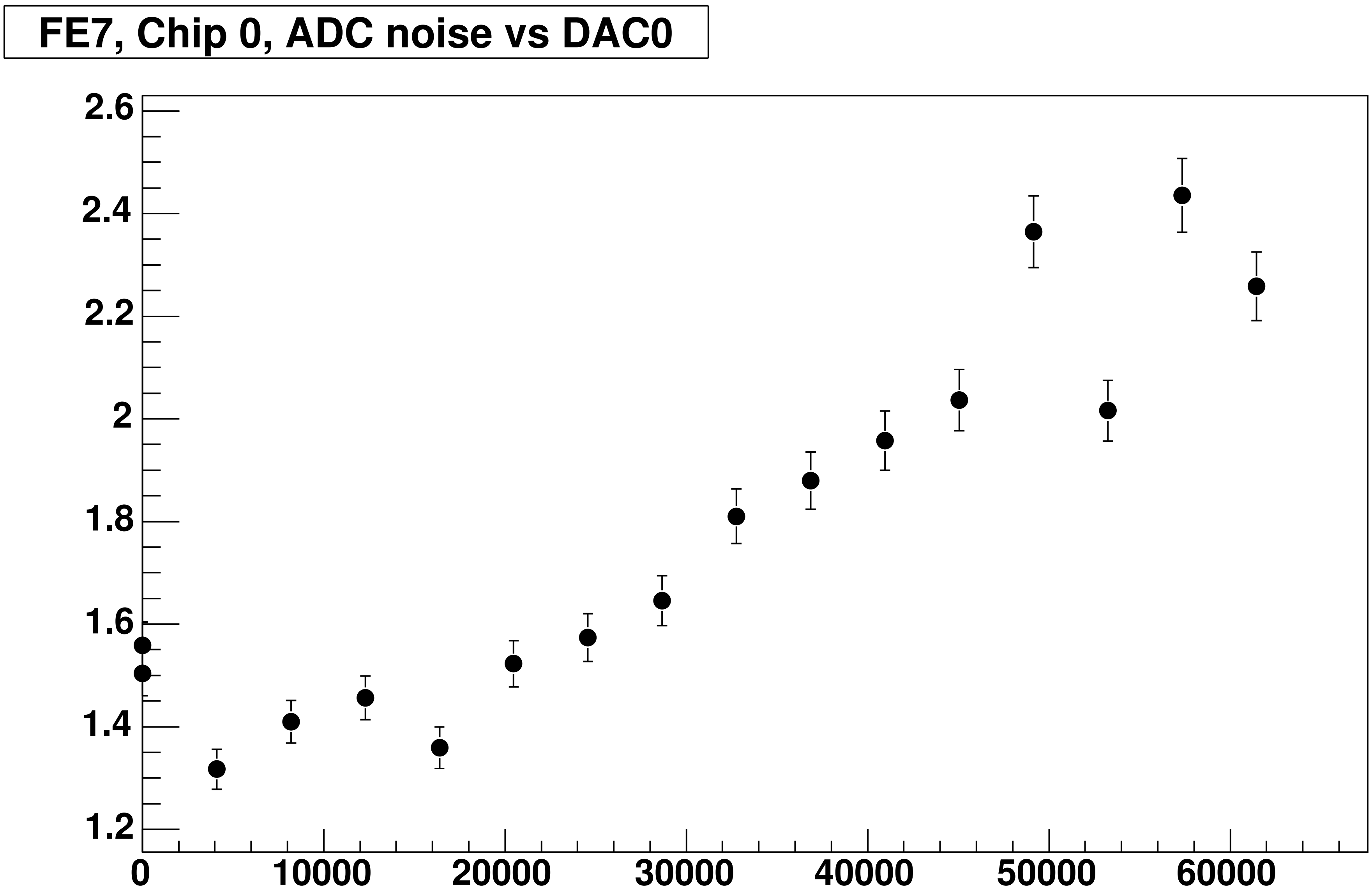


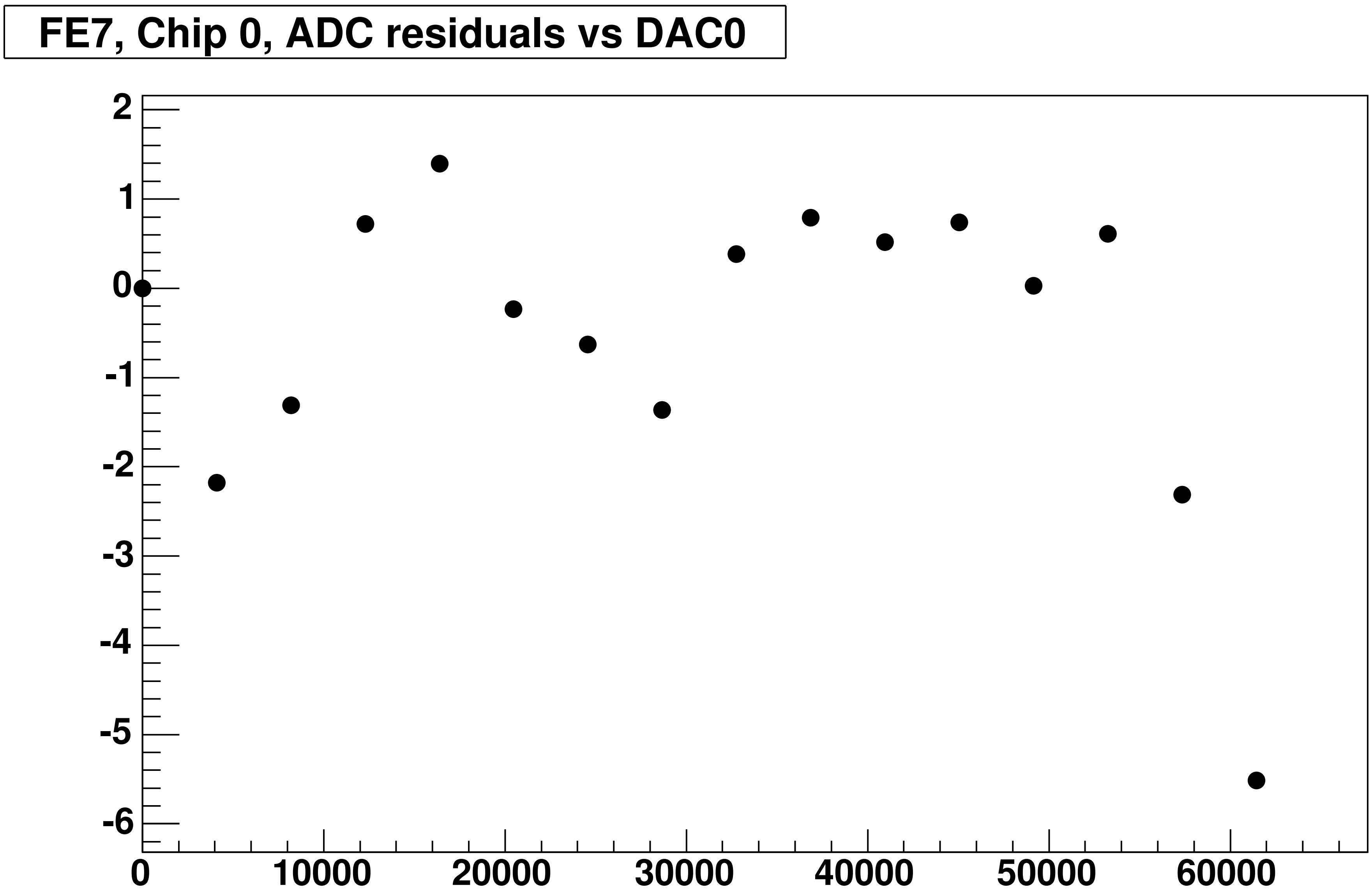
FE6, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1454 / 11
p0 72.06 ± 0.04327
p1 0.4503 ± 1.374e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

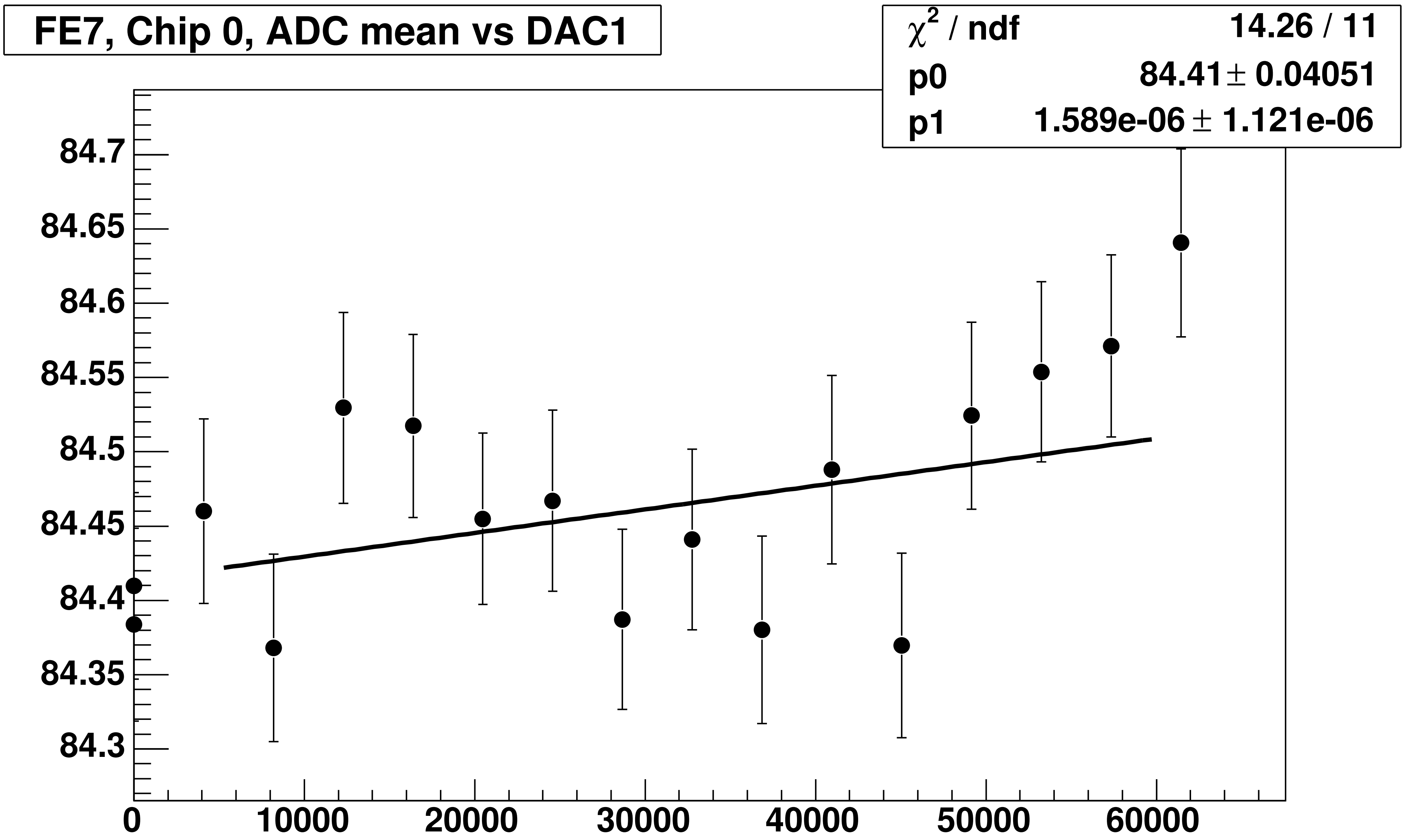

FE6, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000


FE7, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2562 / 11
p0 87.37 ± 0.04246
p1 0.4496 ± 1.358e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

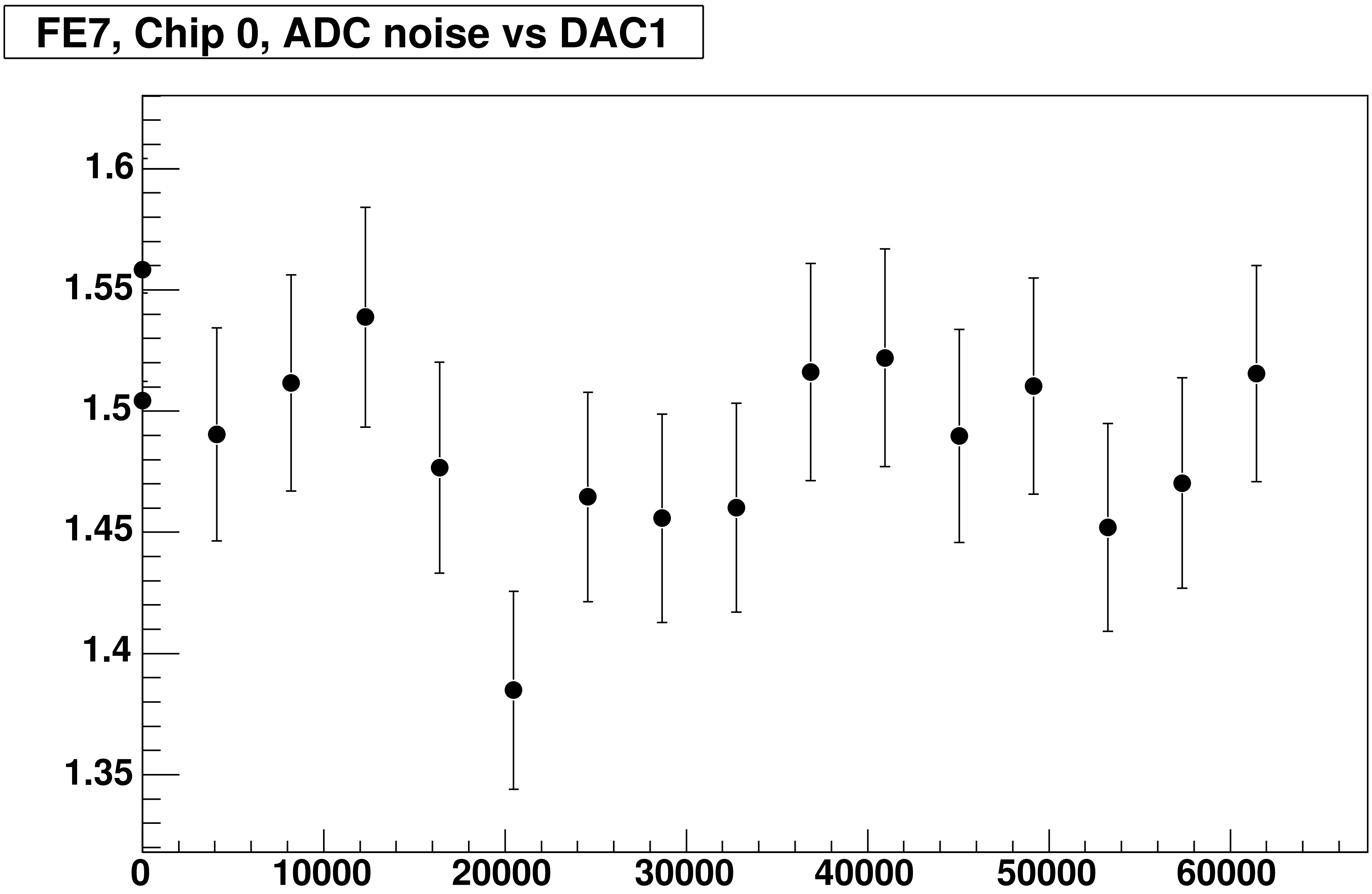

FE7, Chip 0, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

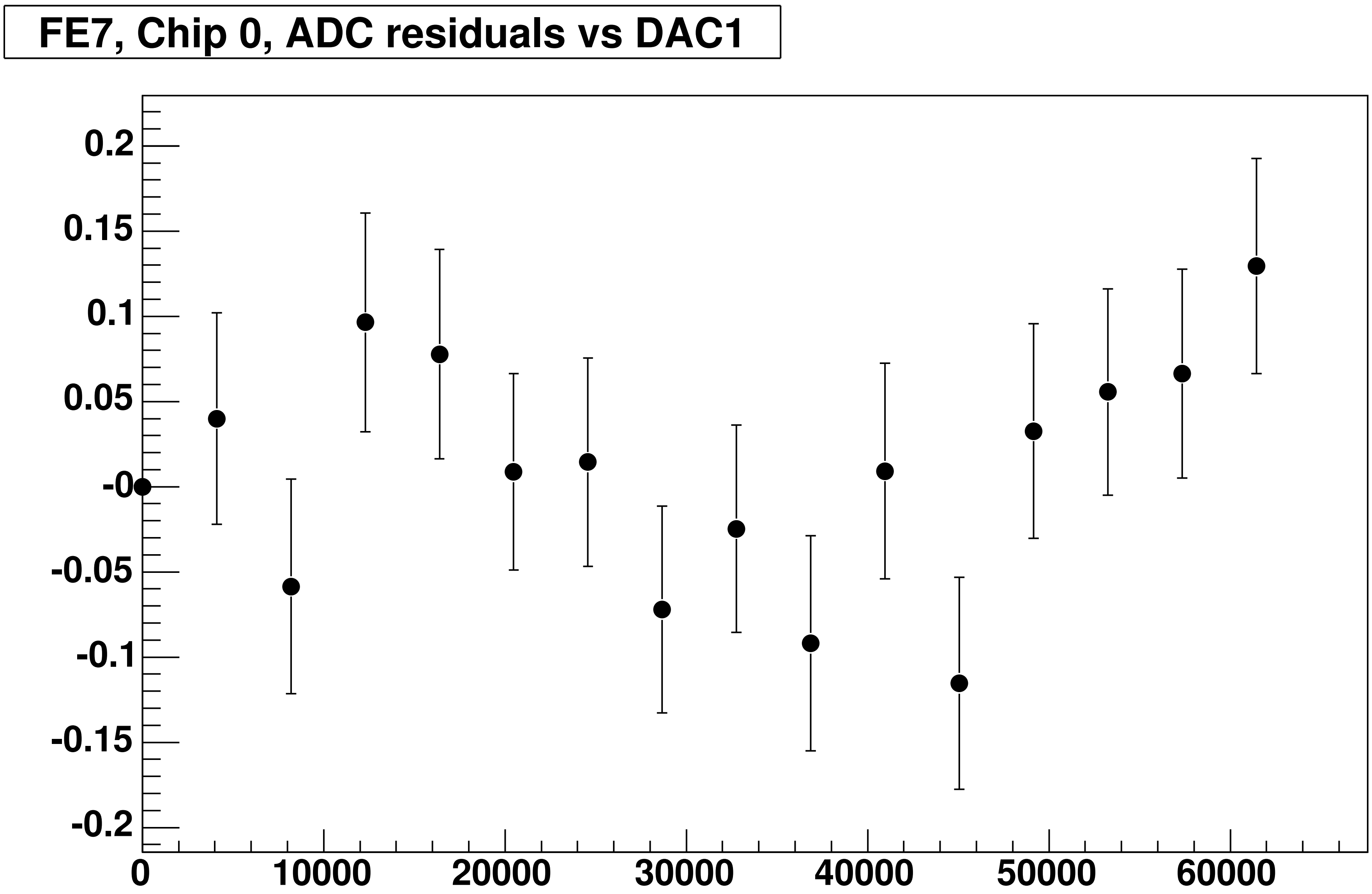


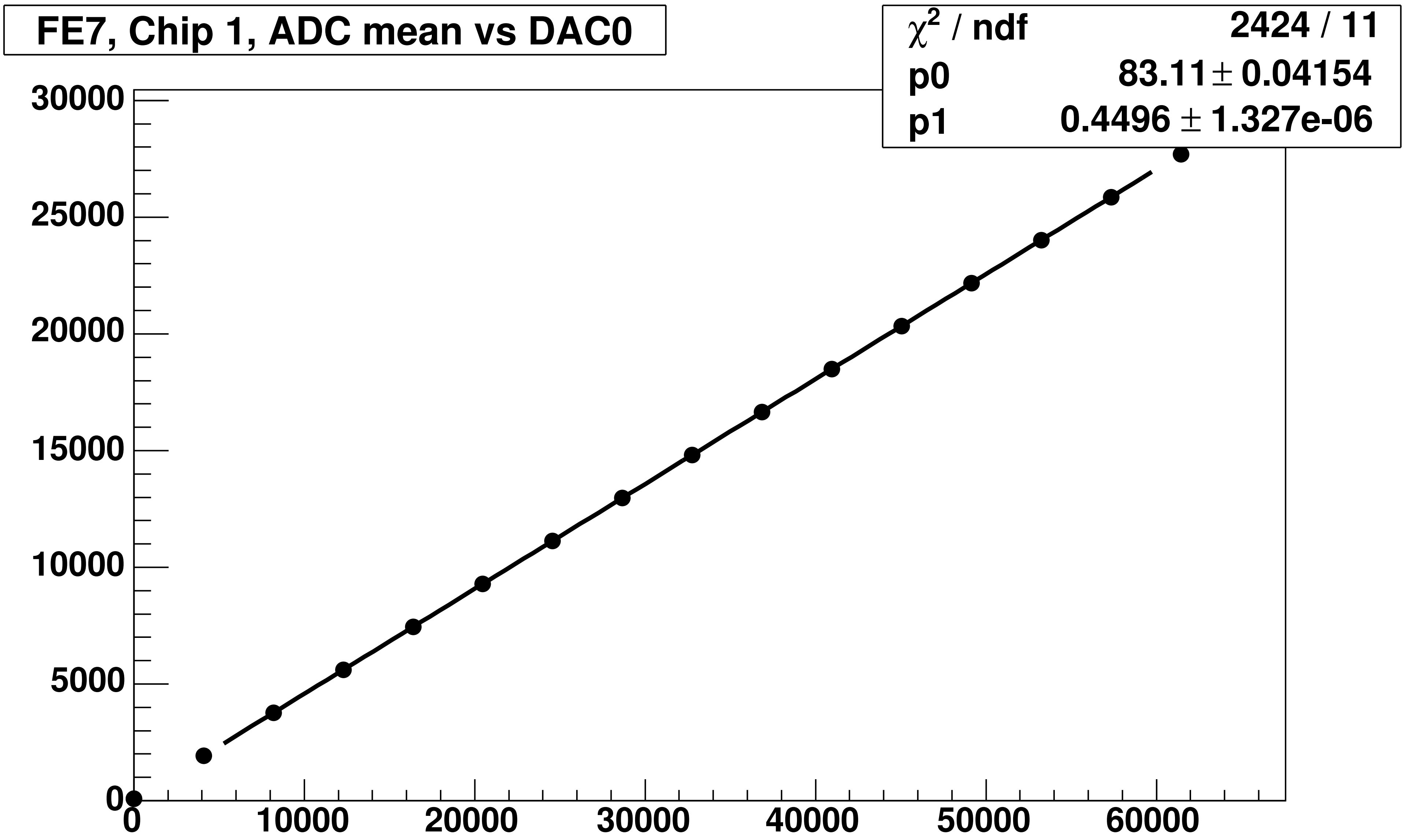
FE7, Chip 0, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

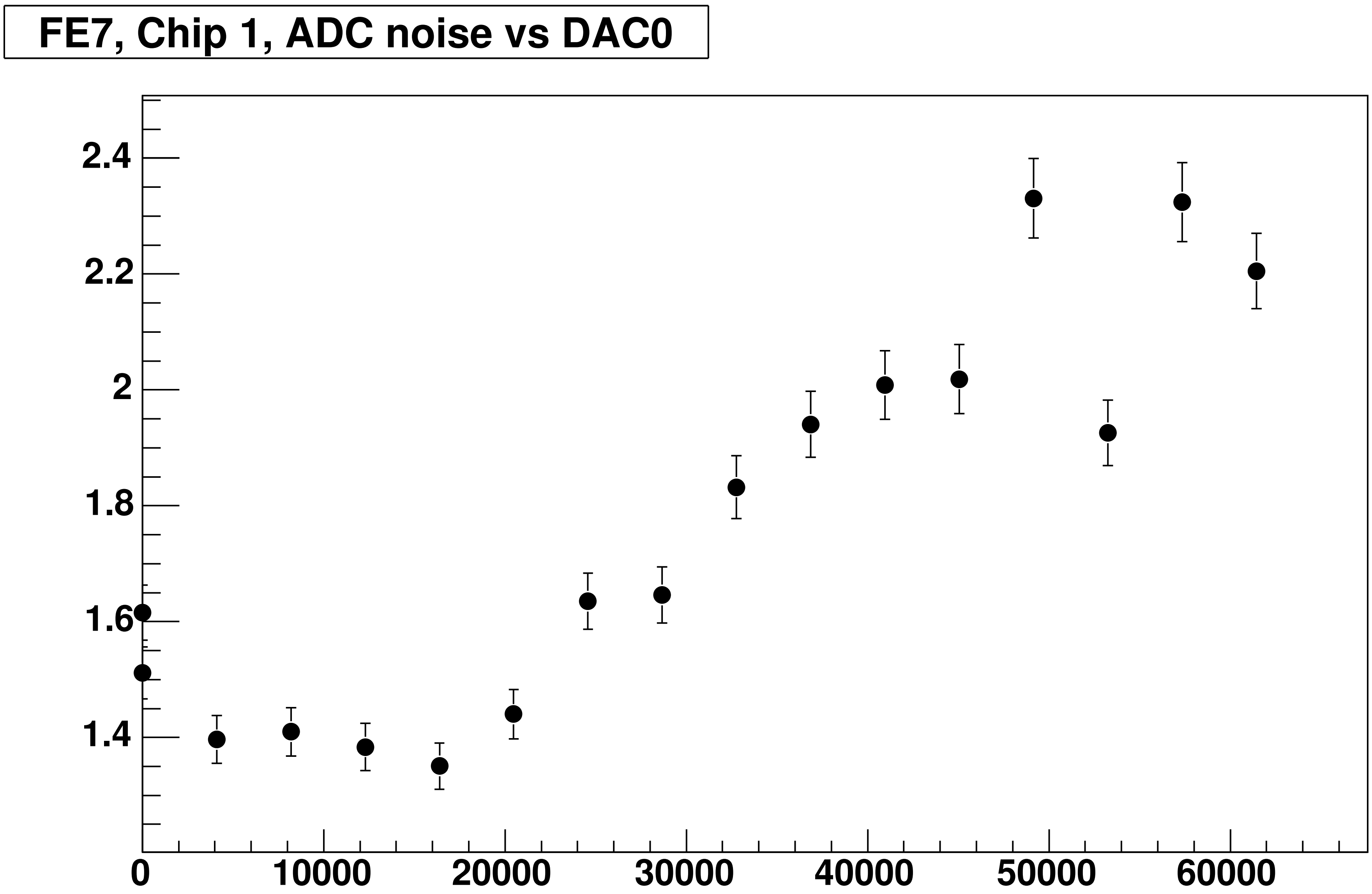


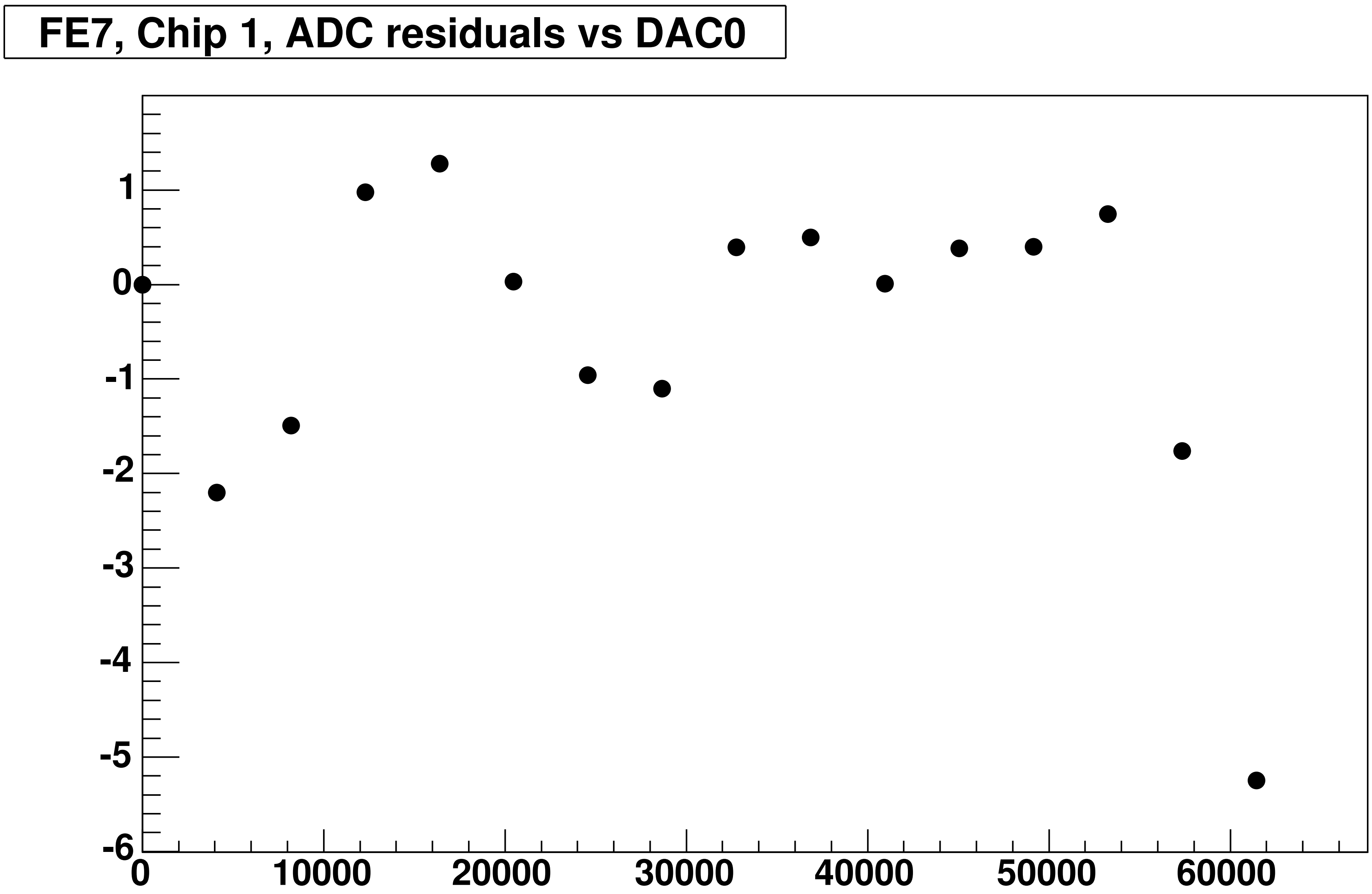
FE7, Chip 0, ADC mean vs DAC1
χ² / ndf 14.26 / 11
p0 84.41 ± 0.04051
p1 1.589e-06 ± 1.121e-06
84.7
84.65
84.6
84.55
84.5
84.45
84.4
84.35
84.3
0
10000
20000
30000
40000
50000
60000

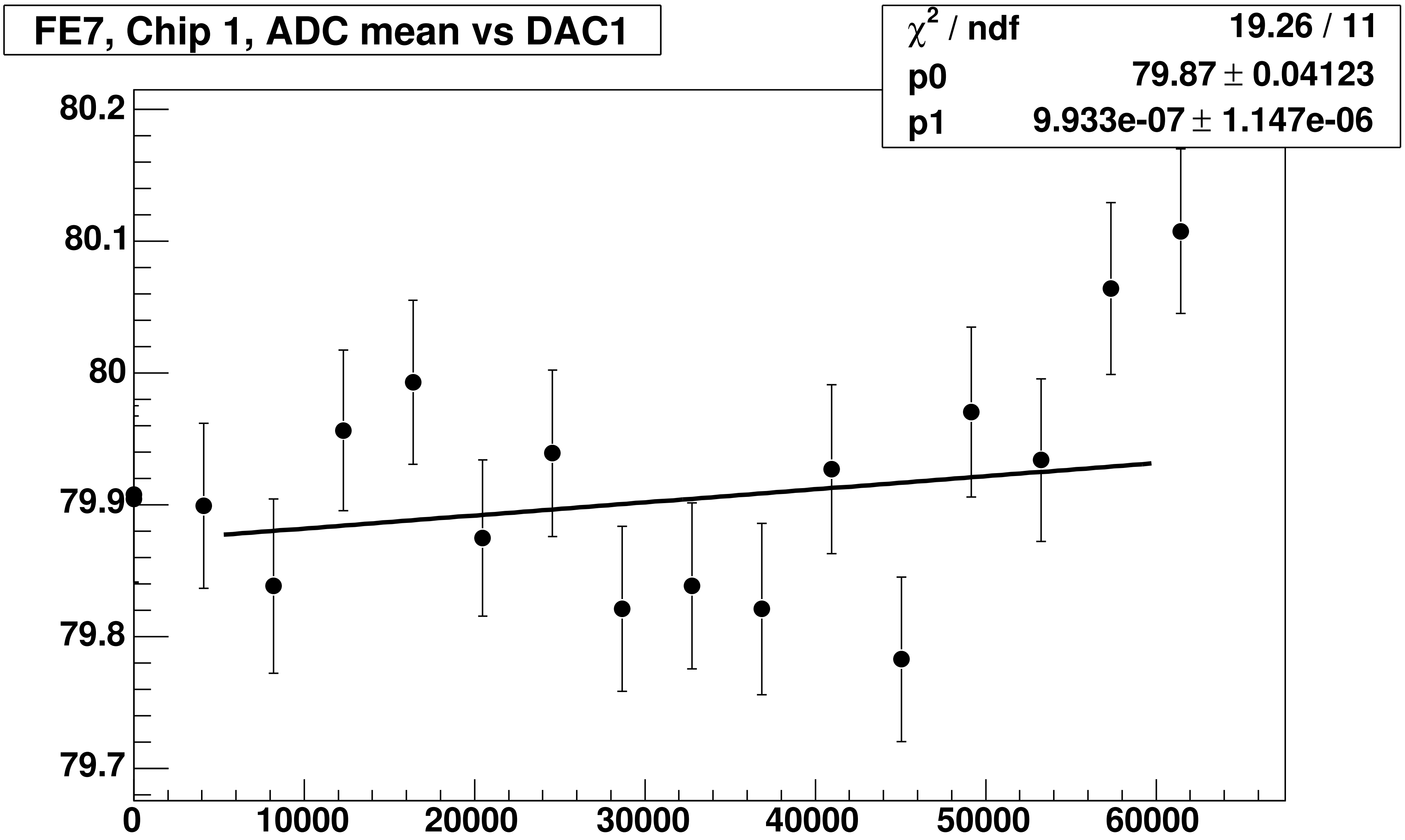

FE7, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

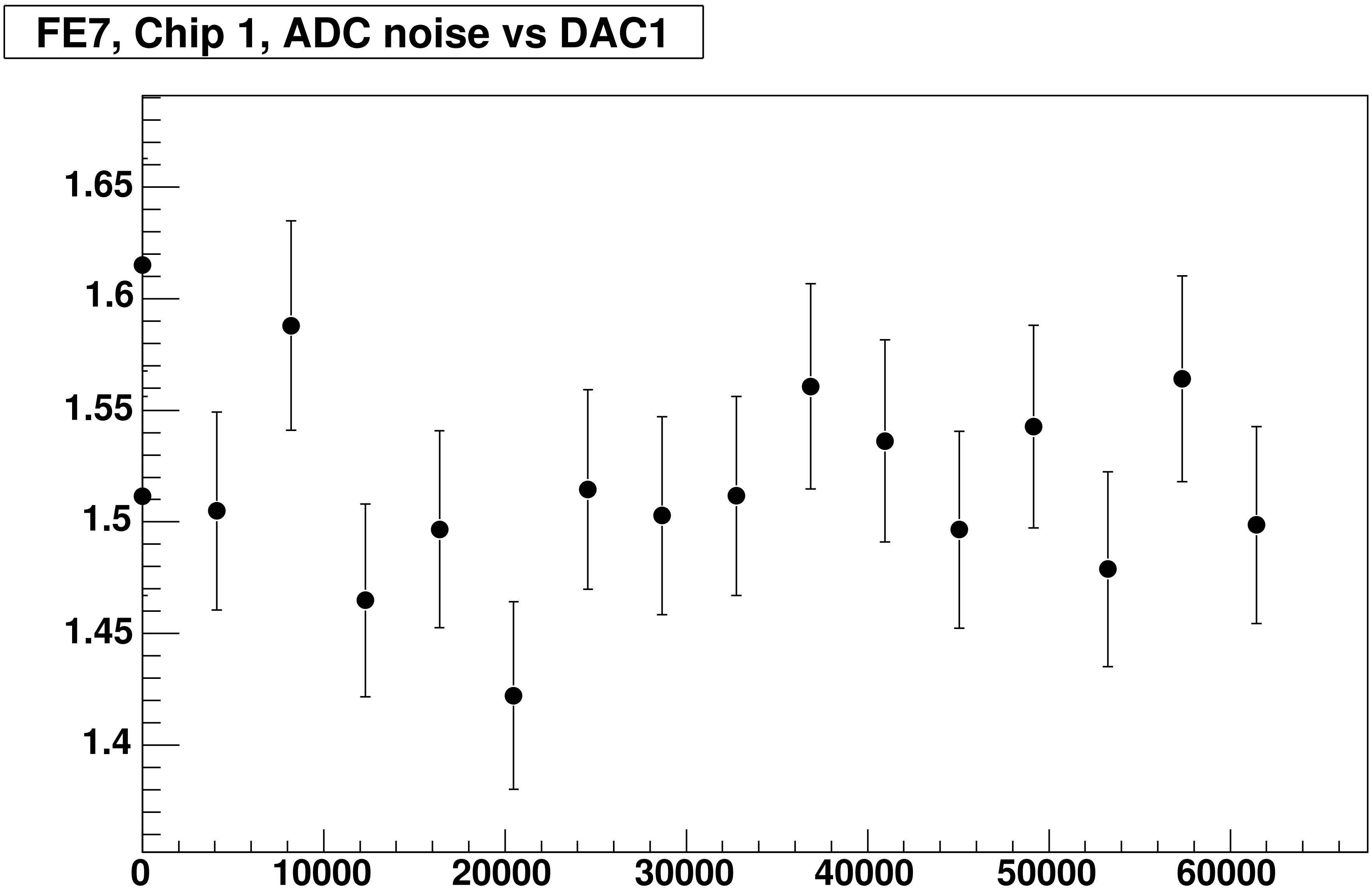

FE7, Chip 0, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2424 / 11
p0 83.11 ± 0.04154
p1 0.4496 ± 1.327e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

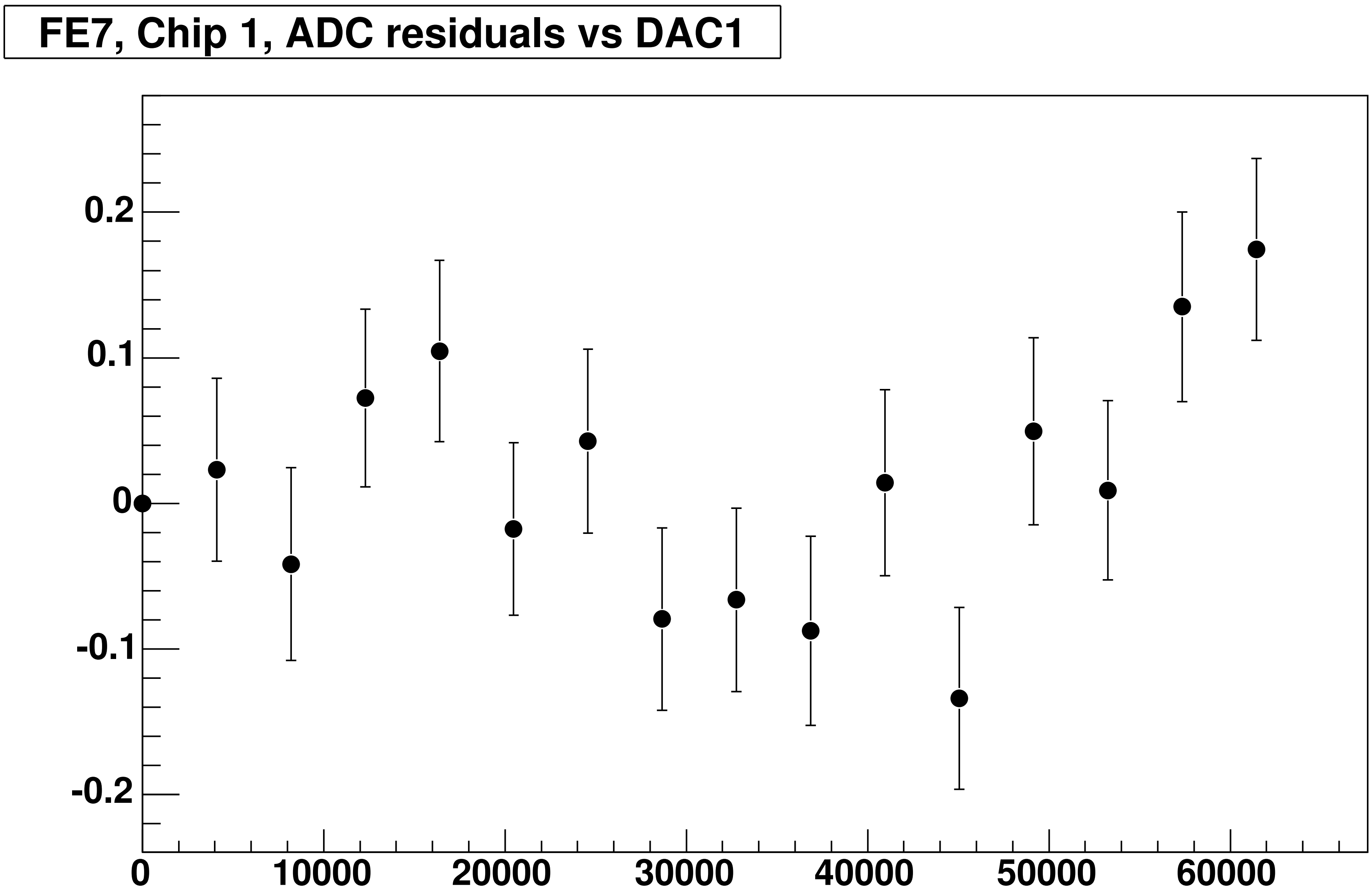

FE7, Chip 1, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

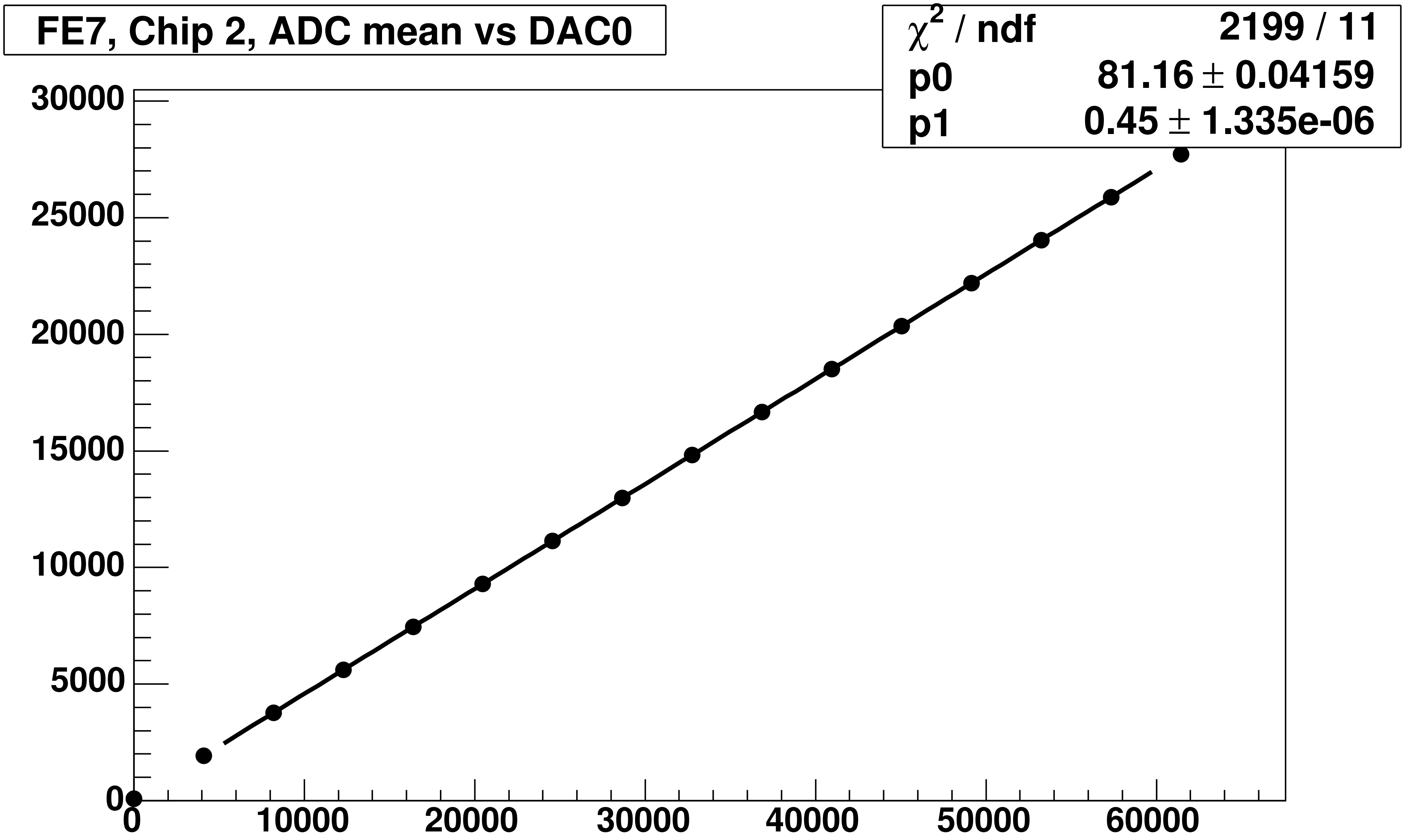

FE7, Chip 1, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

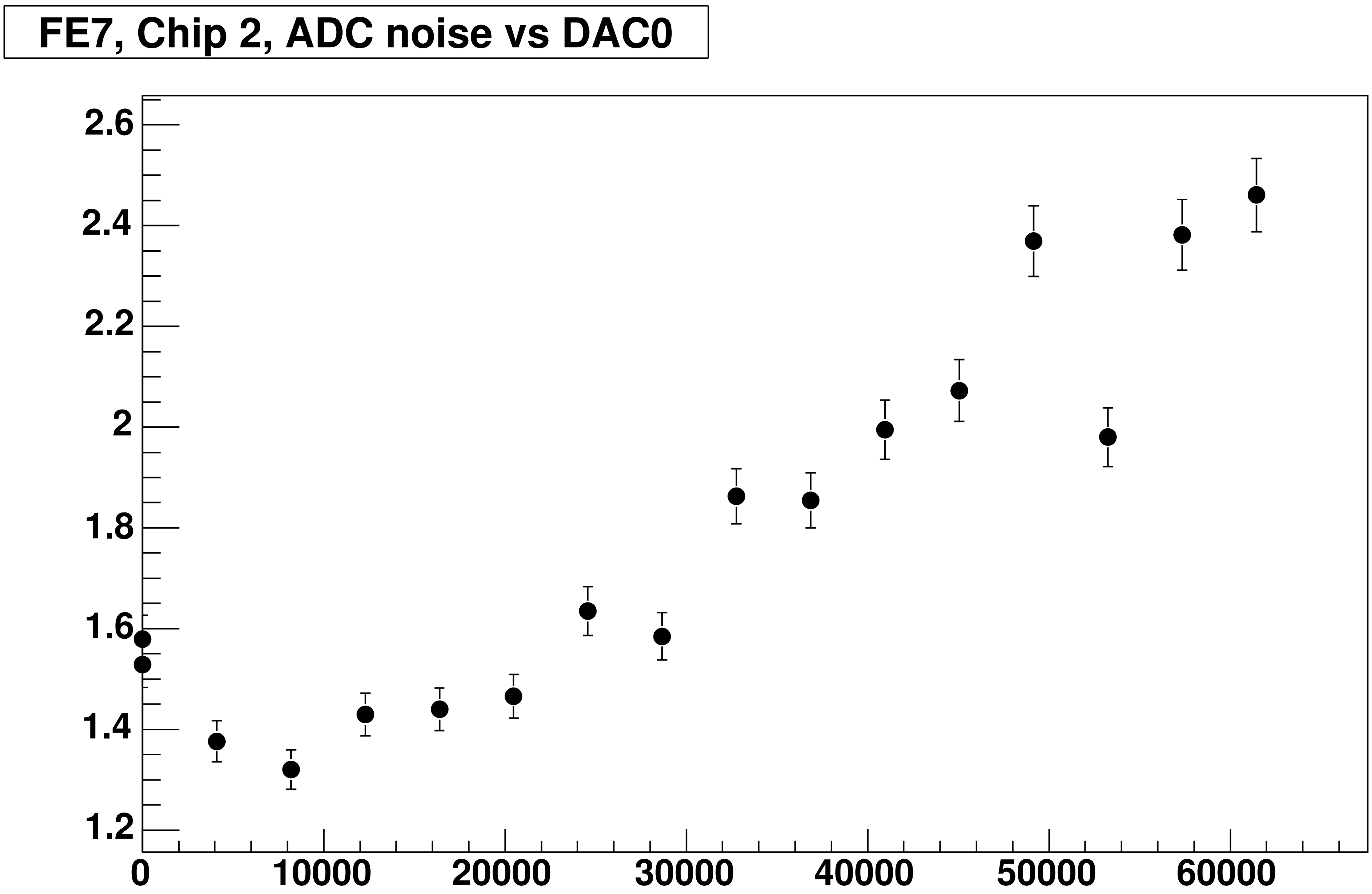

FE7, Chip 1, ADC mean vs DAC1
χ^2 / ndf 19.26 / 11
p0 79.87 ± 0.04123
p1 9.933e-07 ± 1.147e-06
80.2
80.1
80
79.9
79.8
79.7
0
10000
20000
30000
40000
50000
60000

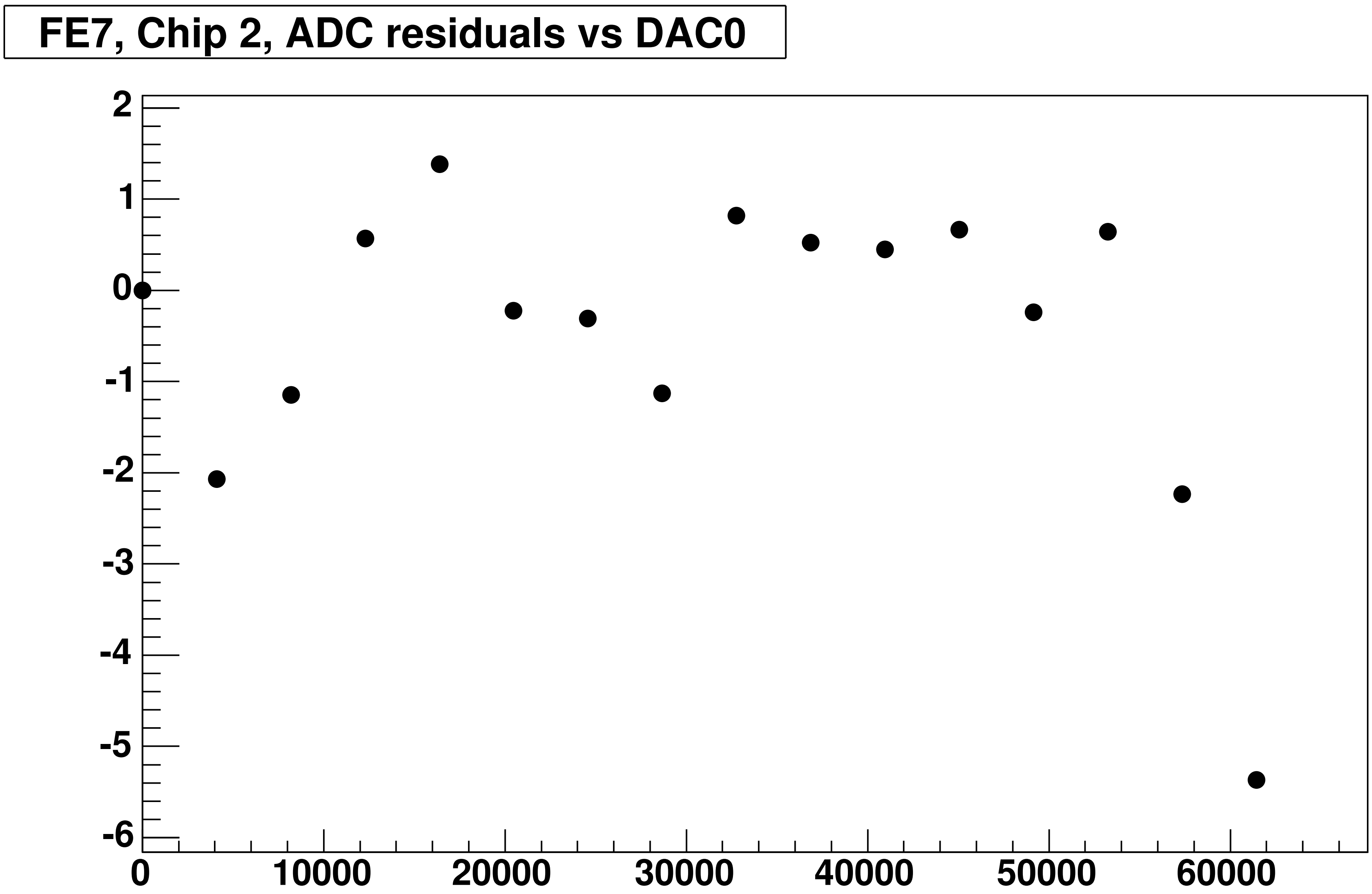


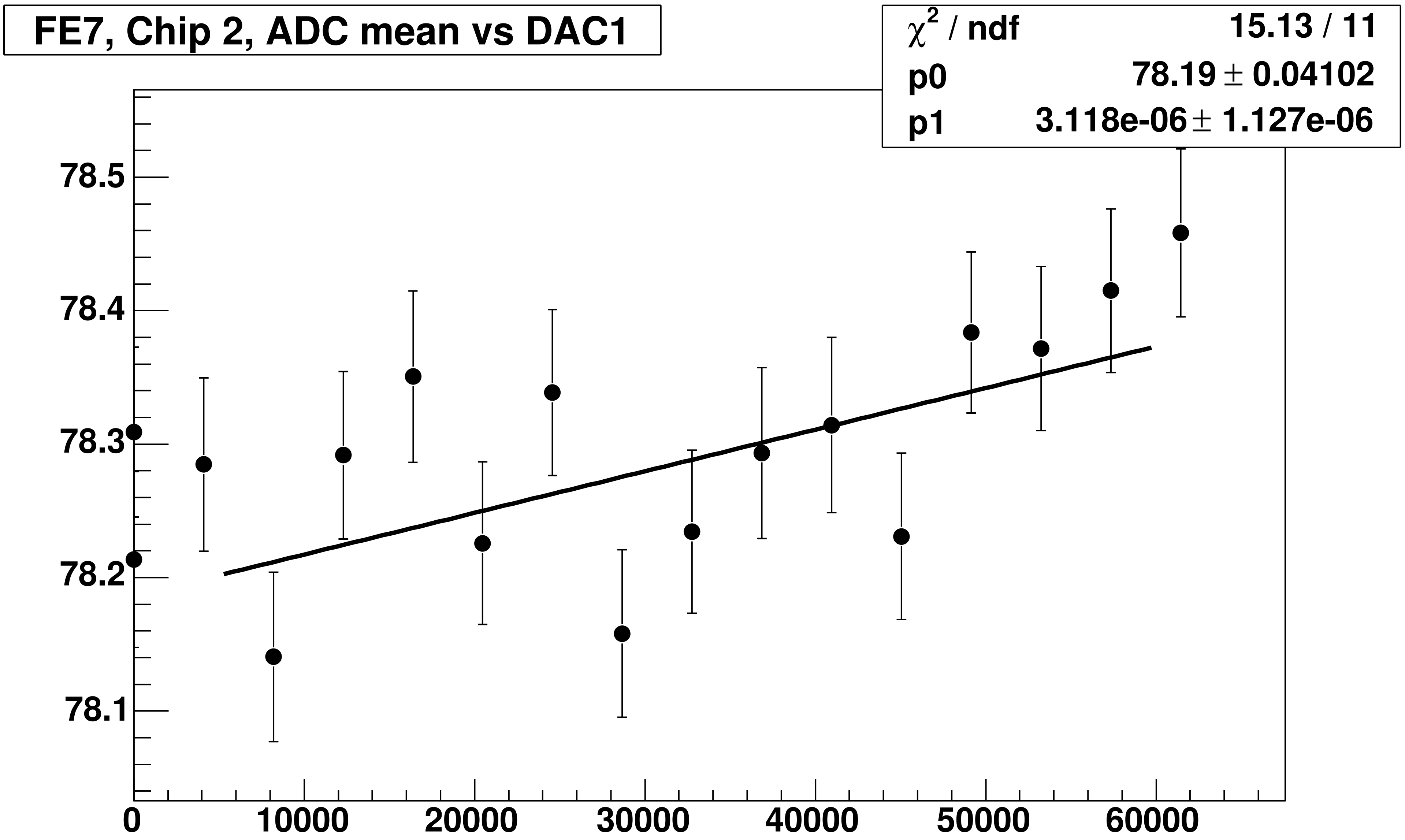
FE7, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

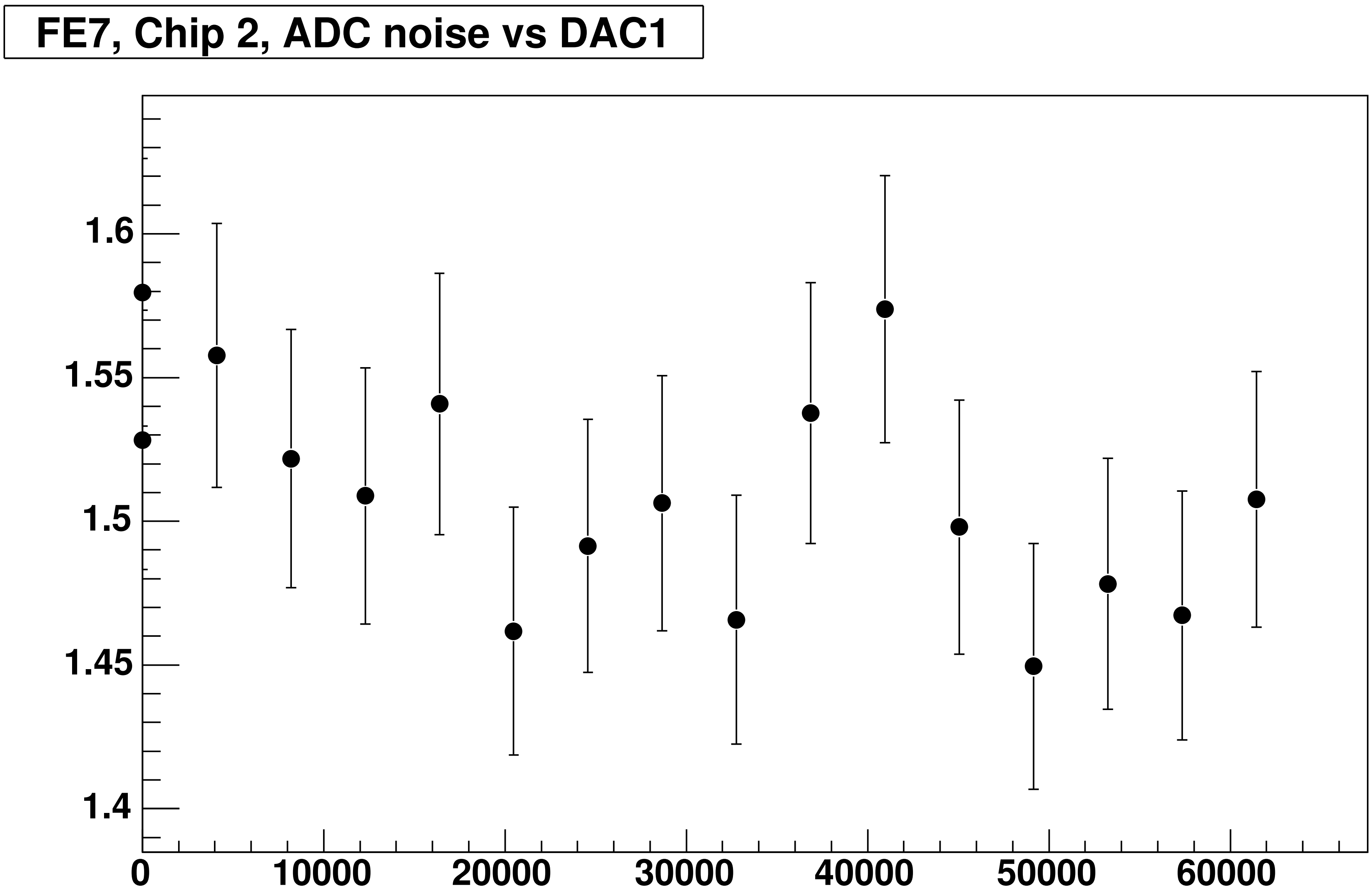

FE7, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

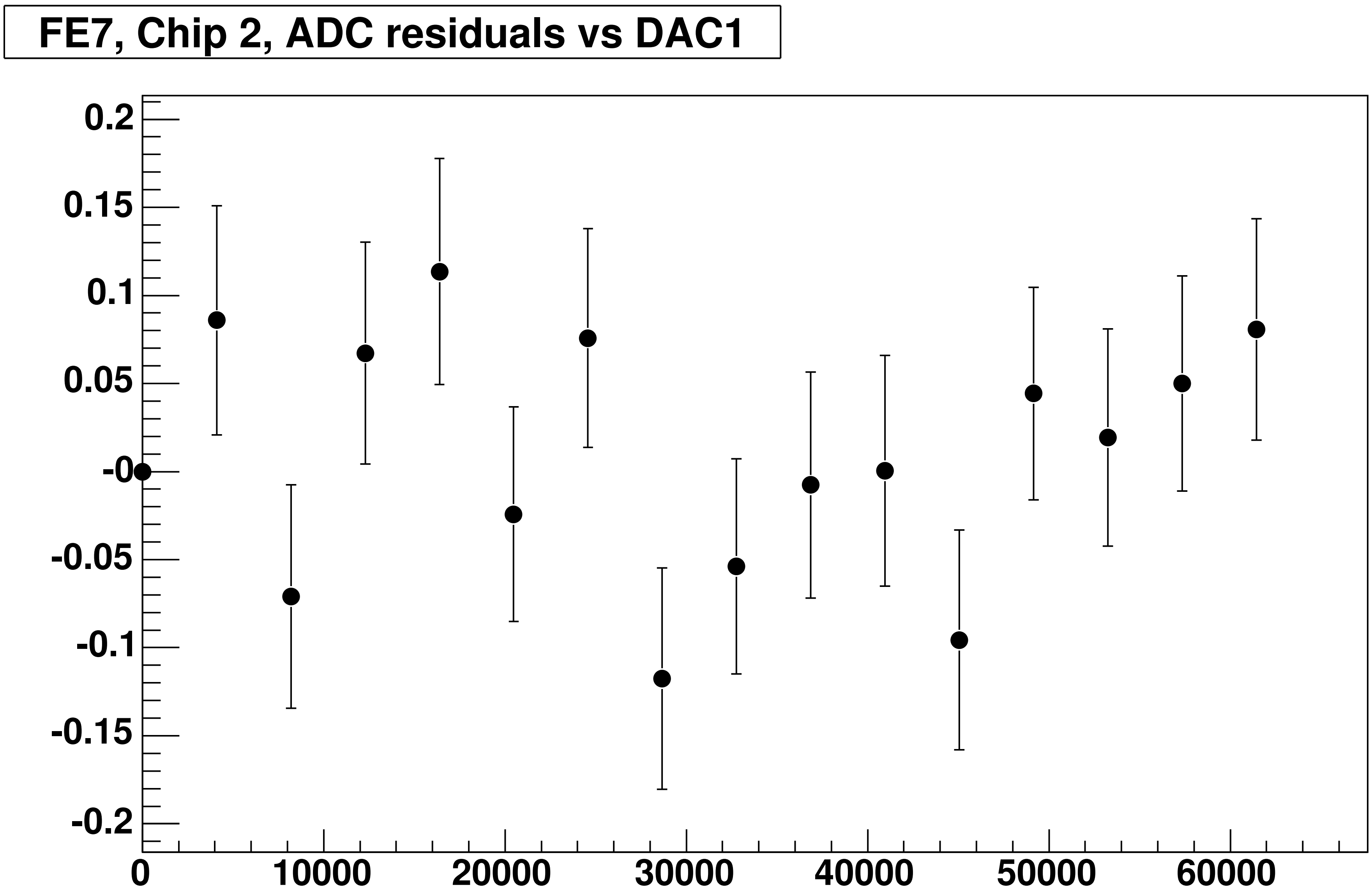

FE7, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2199 / 11
p0 81.16 ± 0.04159
p1 0.45 ± 1.335e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

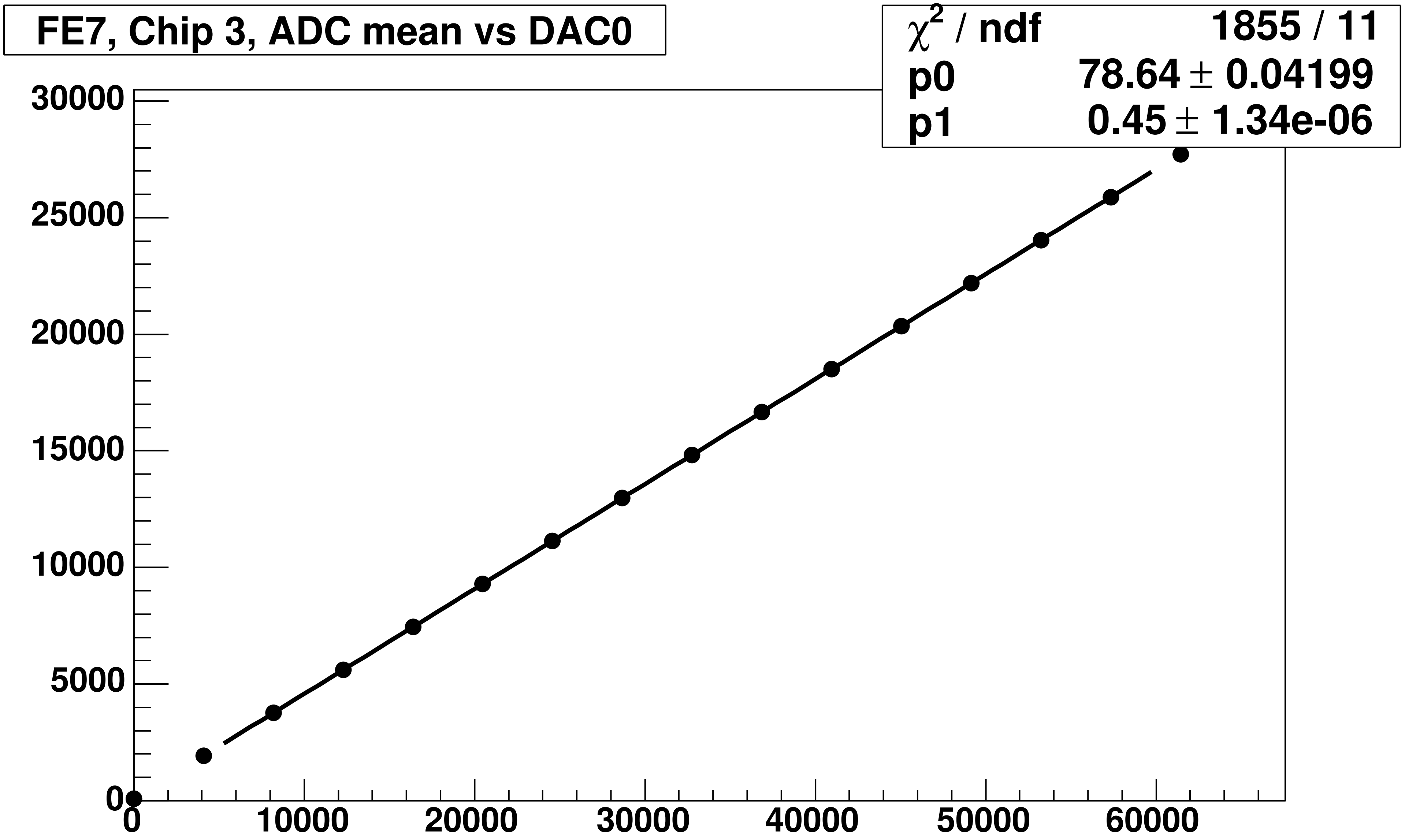

FE7, Chip 2, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

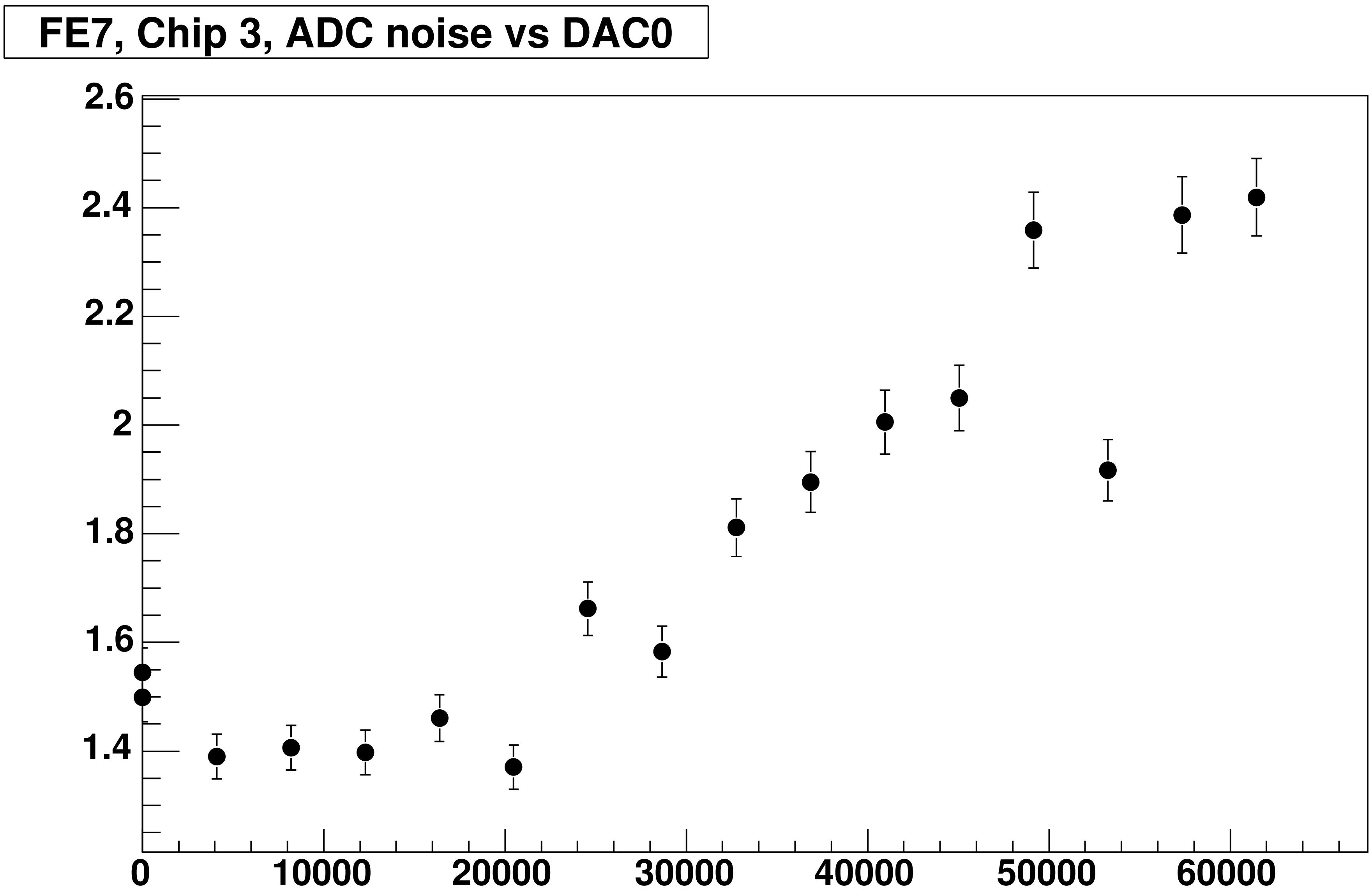

FE7, Chip 2, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

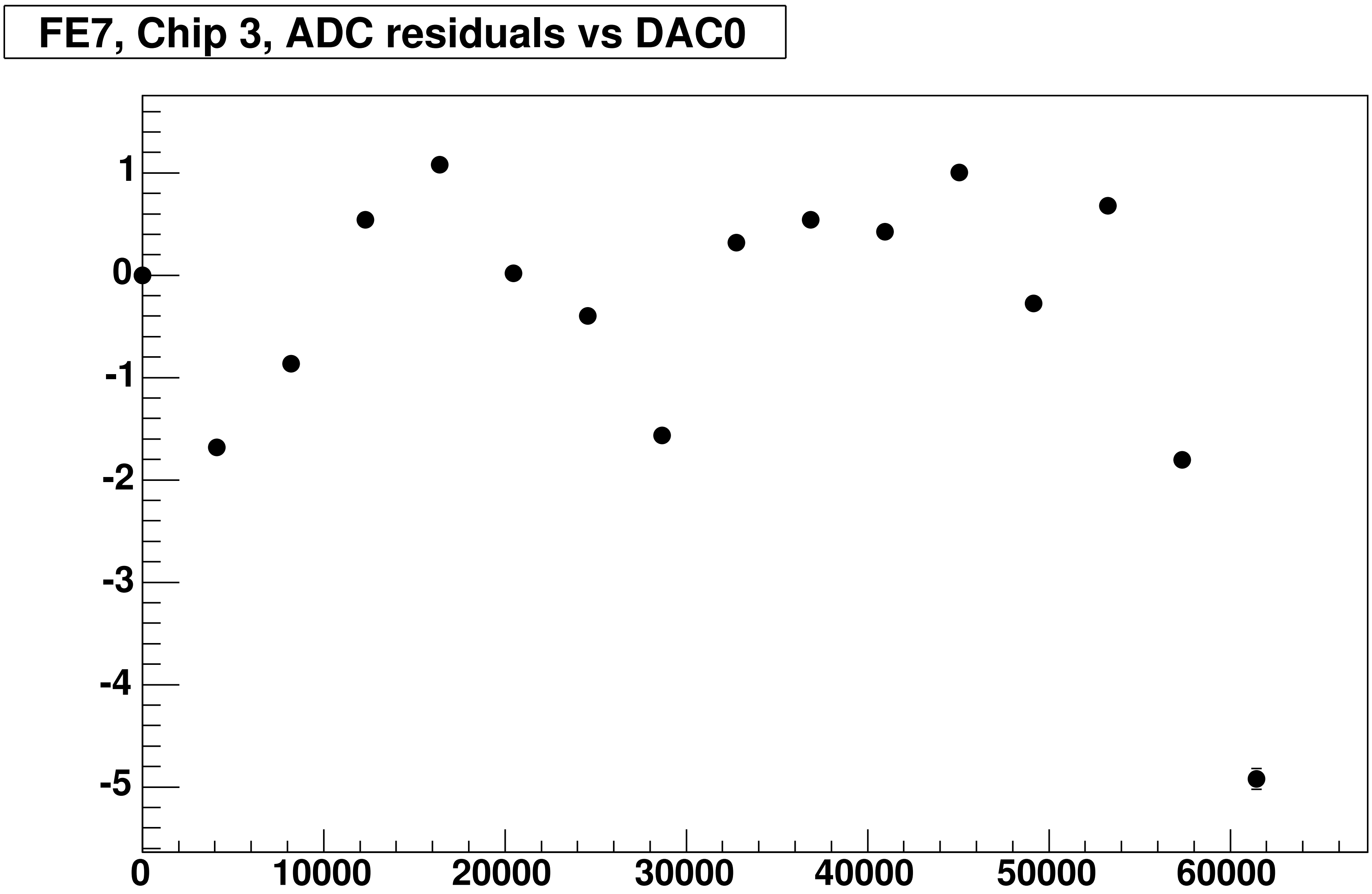

FE7, Chip 2, ADC mean vs DAC1
χ² / ndf 15.13 / 11
p0 78.19 ± 0.04102
p1 3.118e-06 ± 1.127e-06
78.1
78.2
78.3
78.4
78.5
0
10000
20000
30000
40000
50000
60000

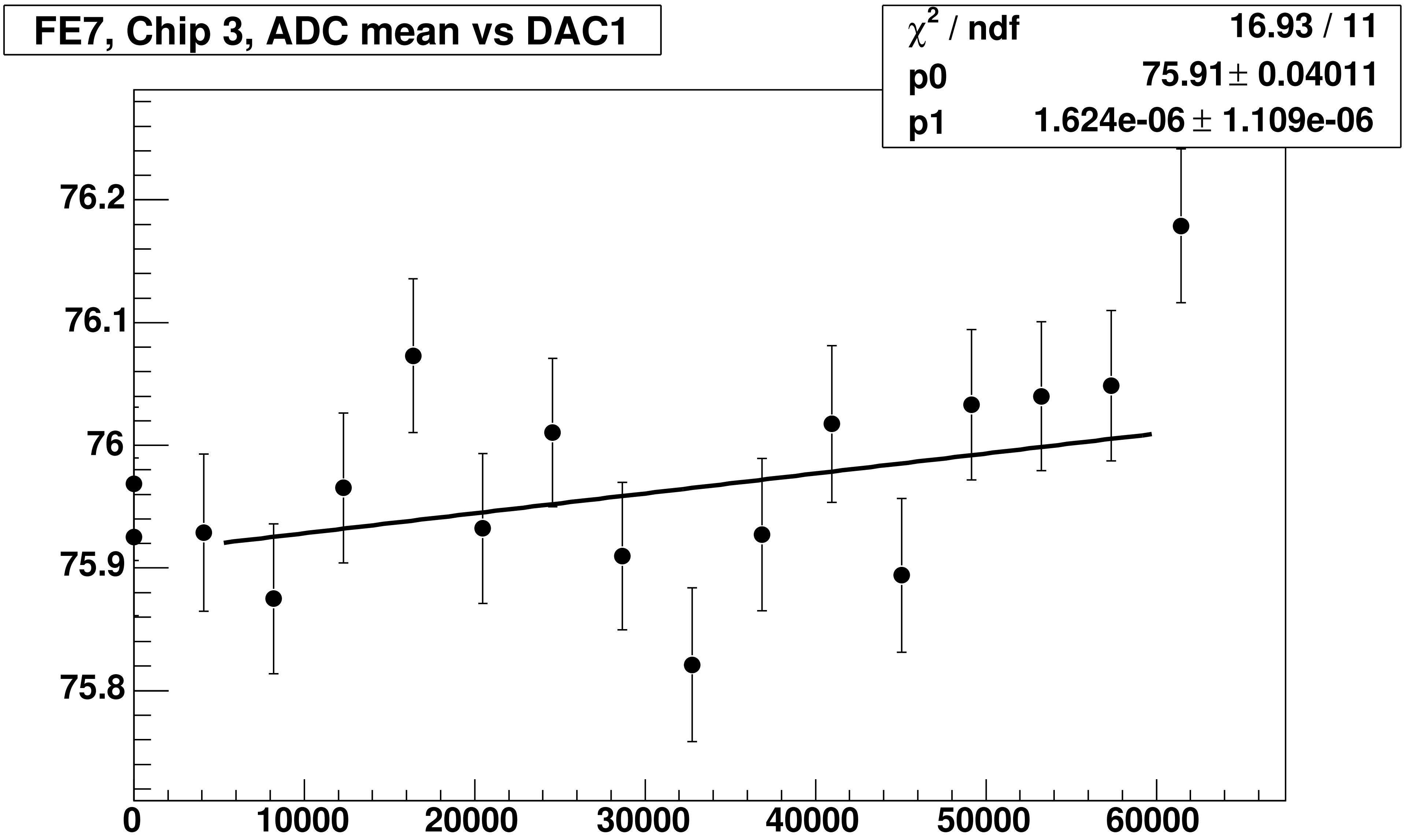

FE7, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

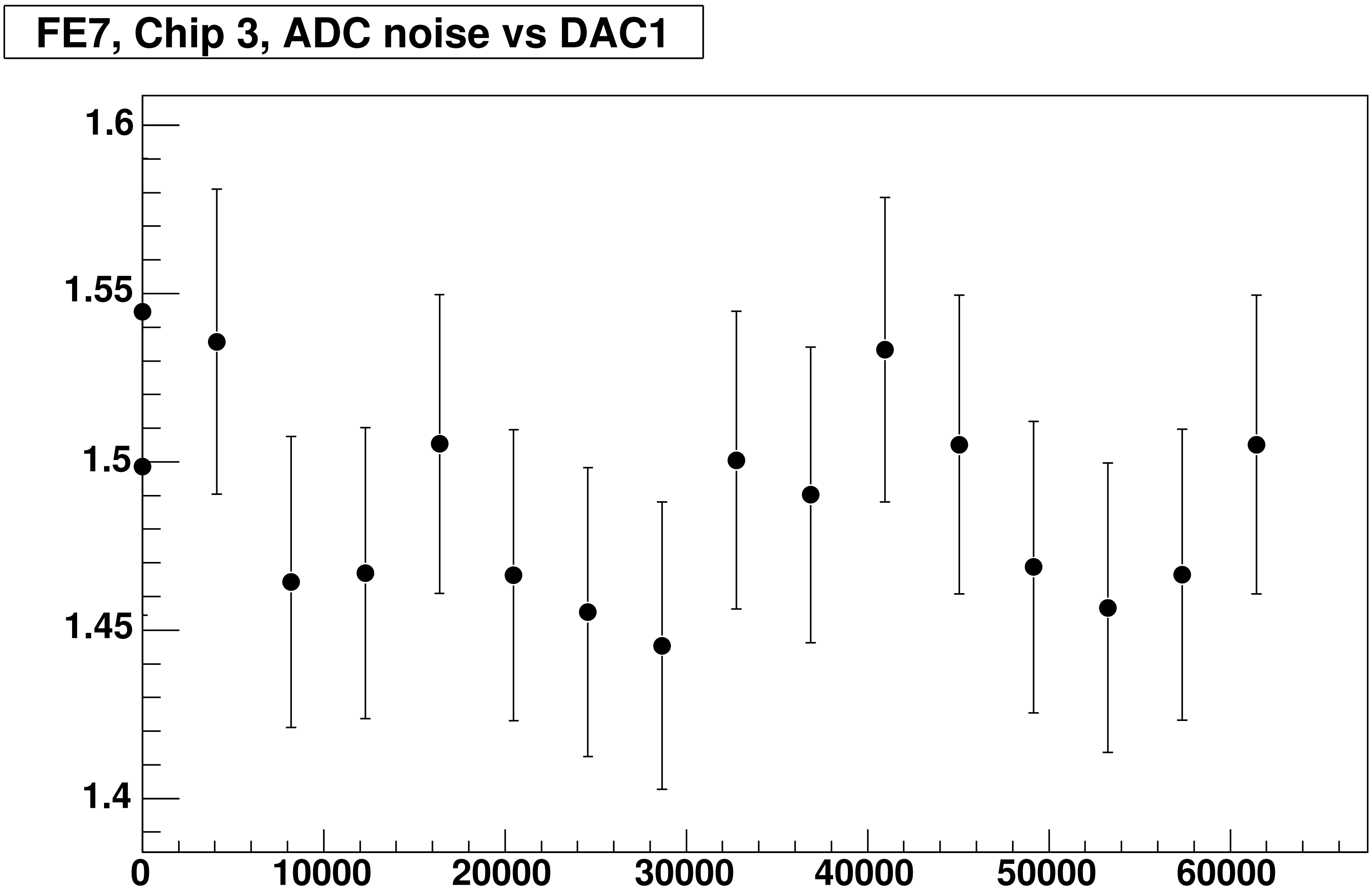

FE7, Chip 2, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1855 / 11
p0 78.64 ± 0.04199
p1 0.45 ± 1.34e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

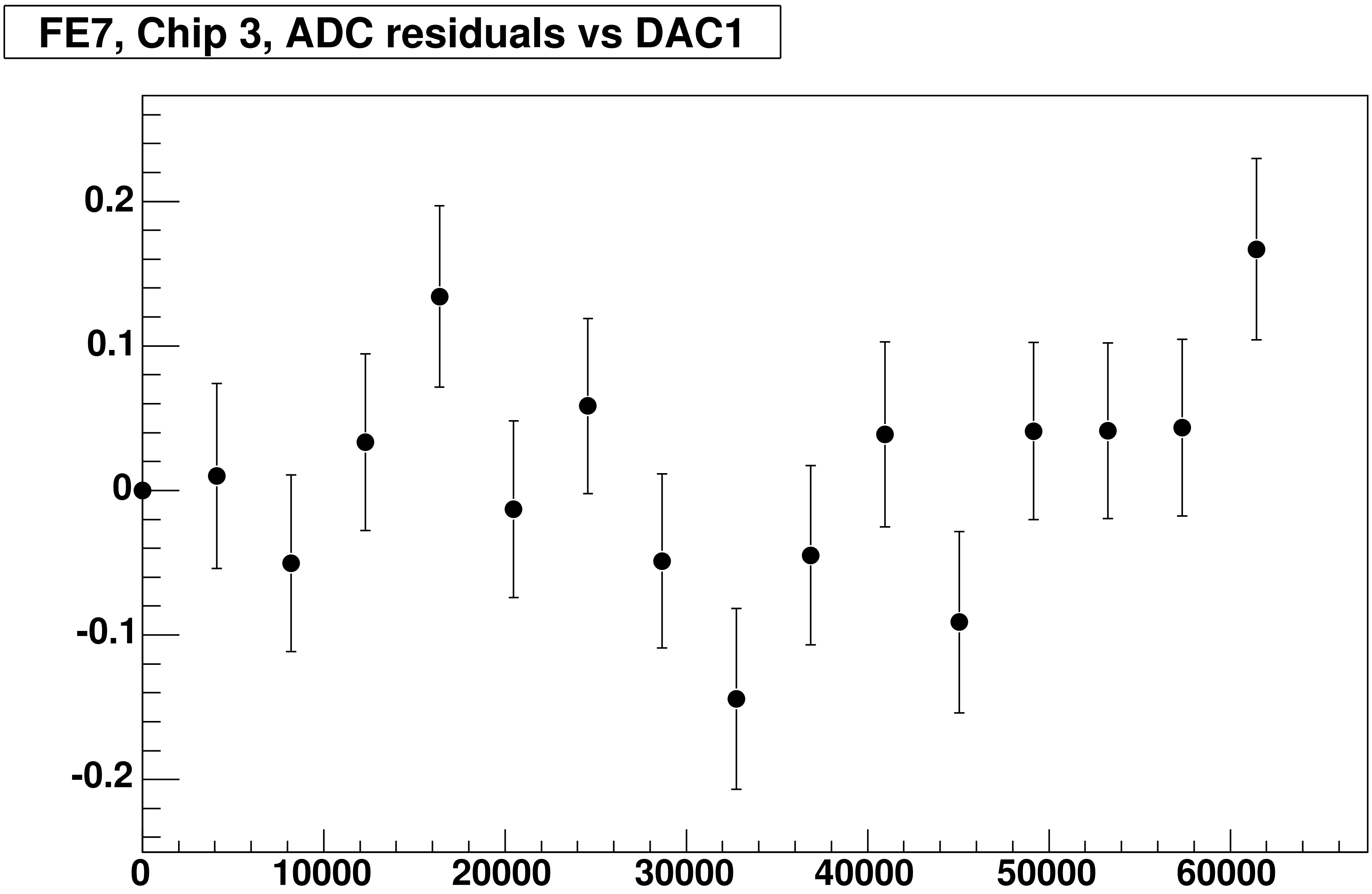

FE7, Chip 3, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE7, Chip 3, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

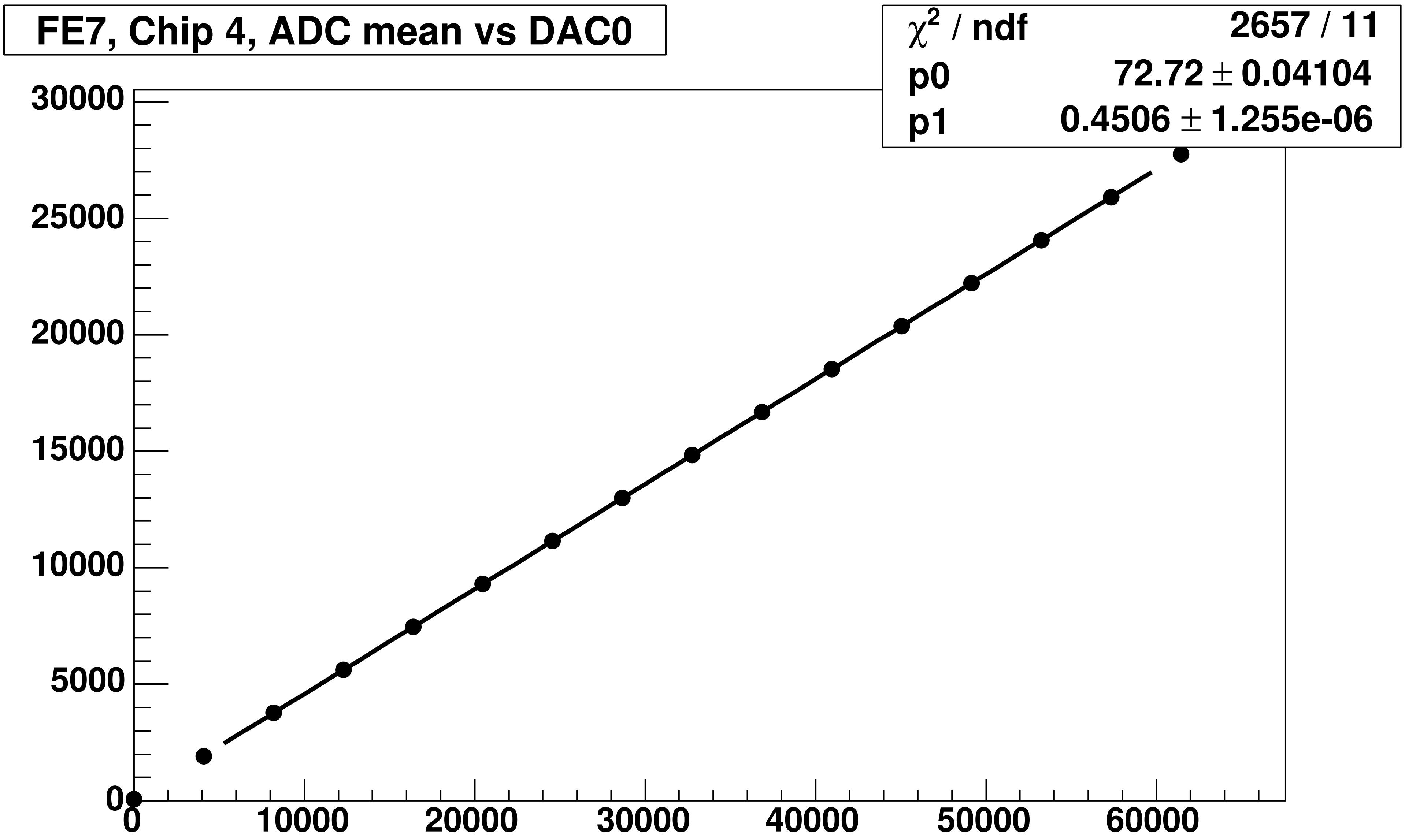

FE7, Chip 3, ADC mean vs DAC1
χ^2 / ndf 16.93 / 11
p0 75.91 ± 0.04011
p1 1.624e-06 ± 1.109e-06
76.2
76.1
76
75.9
75.8
0
10000
20000
30000
40000
50000
60000



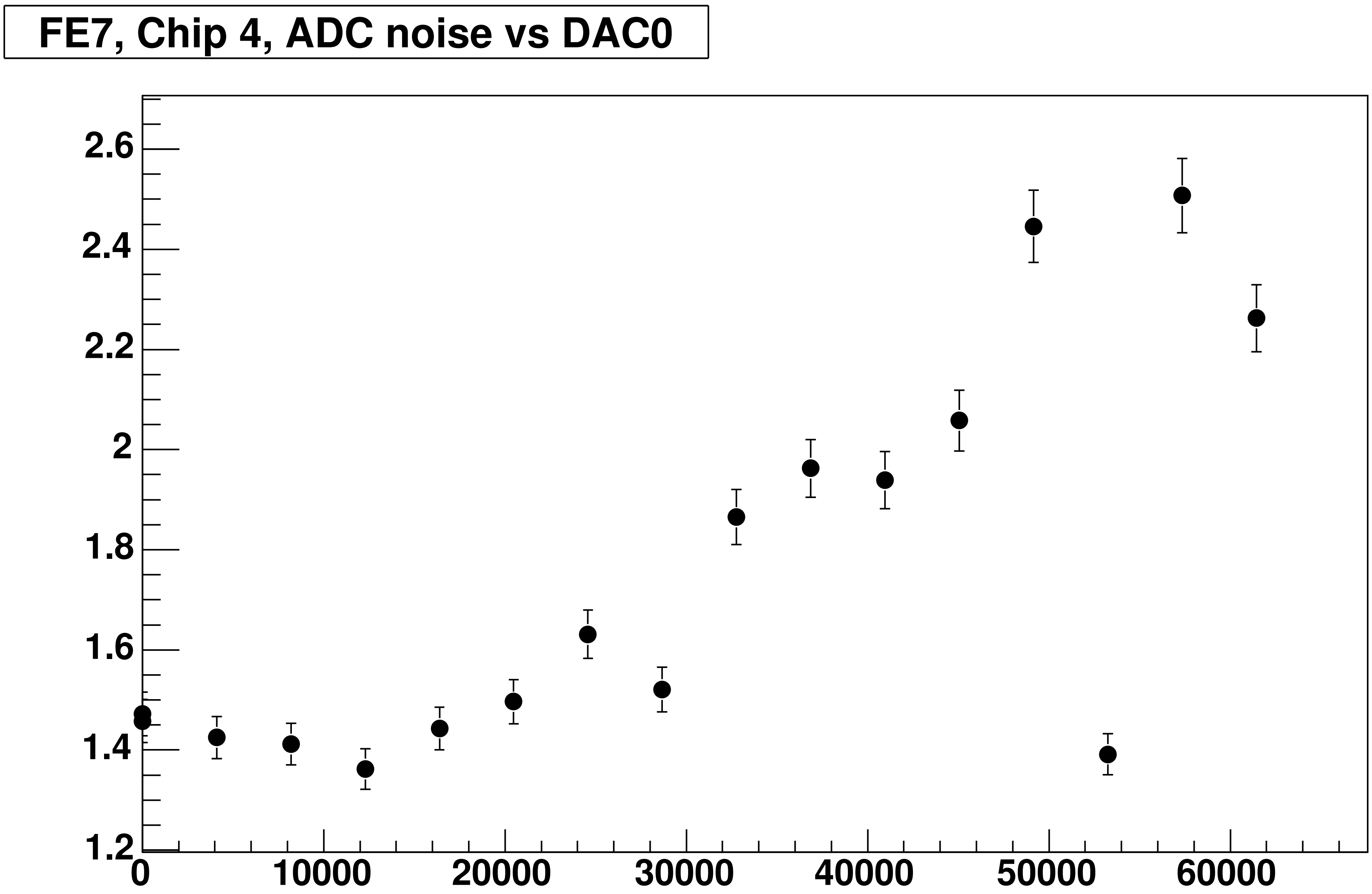
FE7, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000



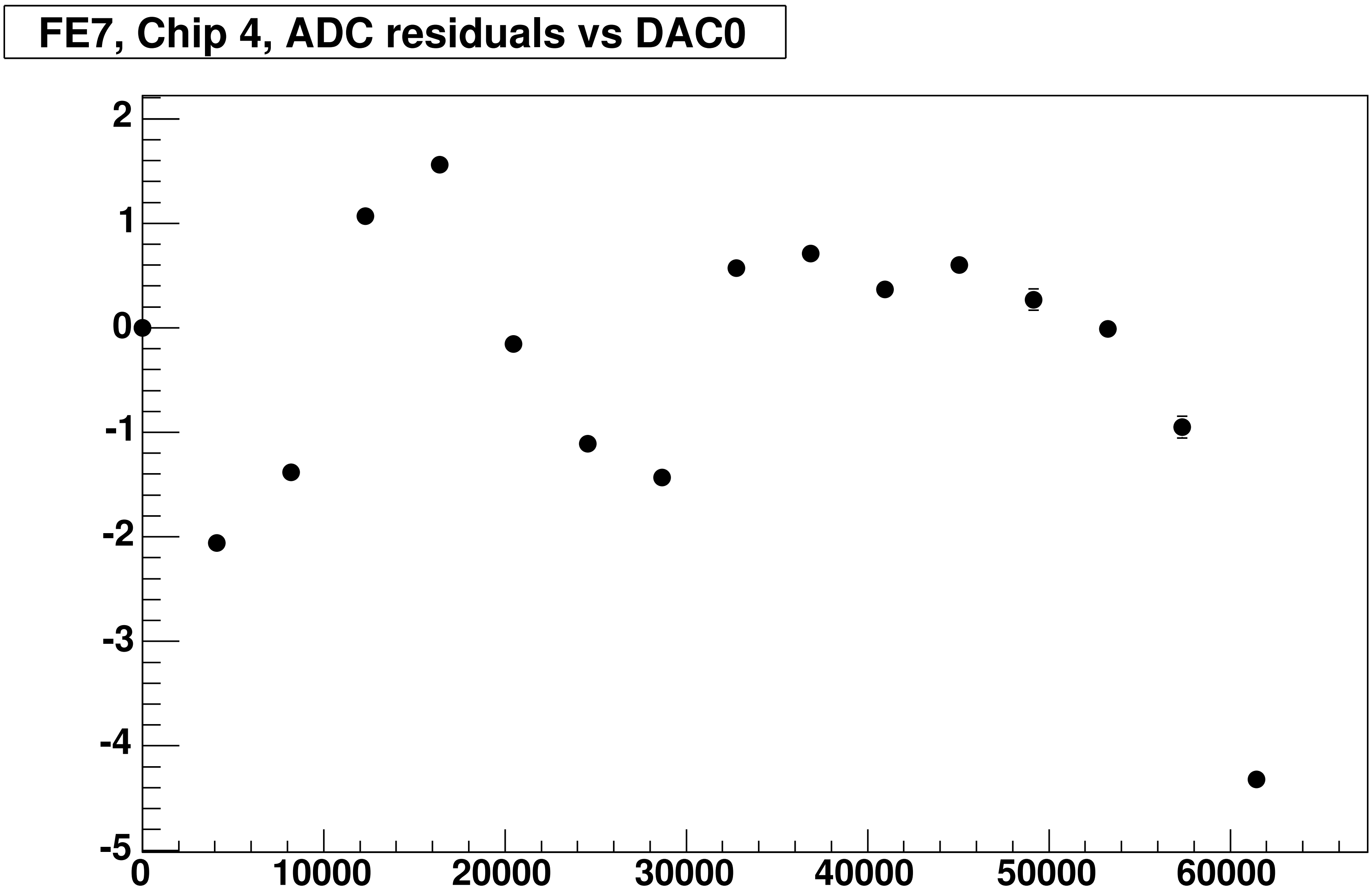
FE7, Chip 3, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

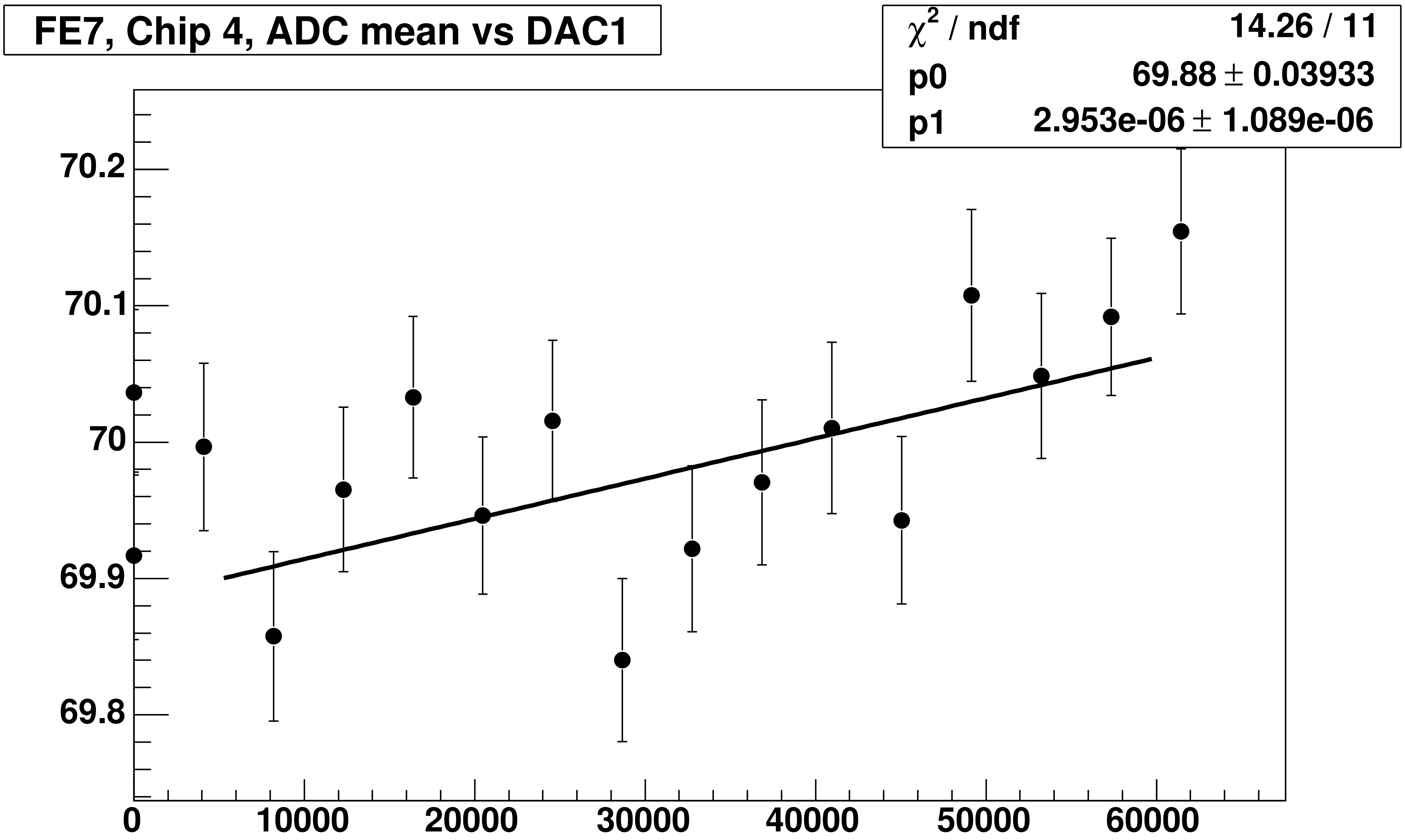


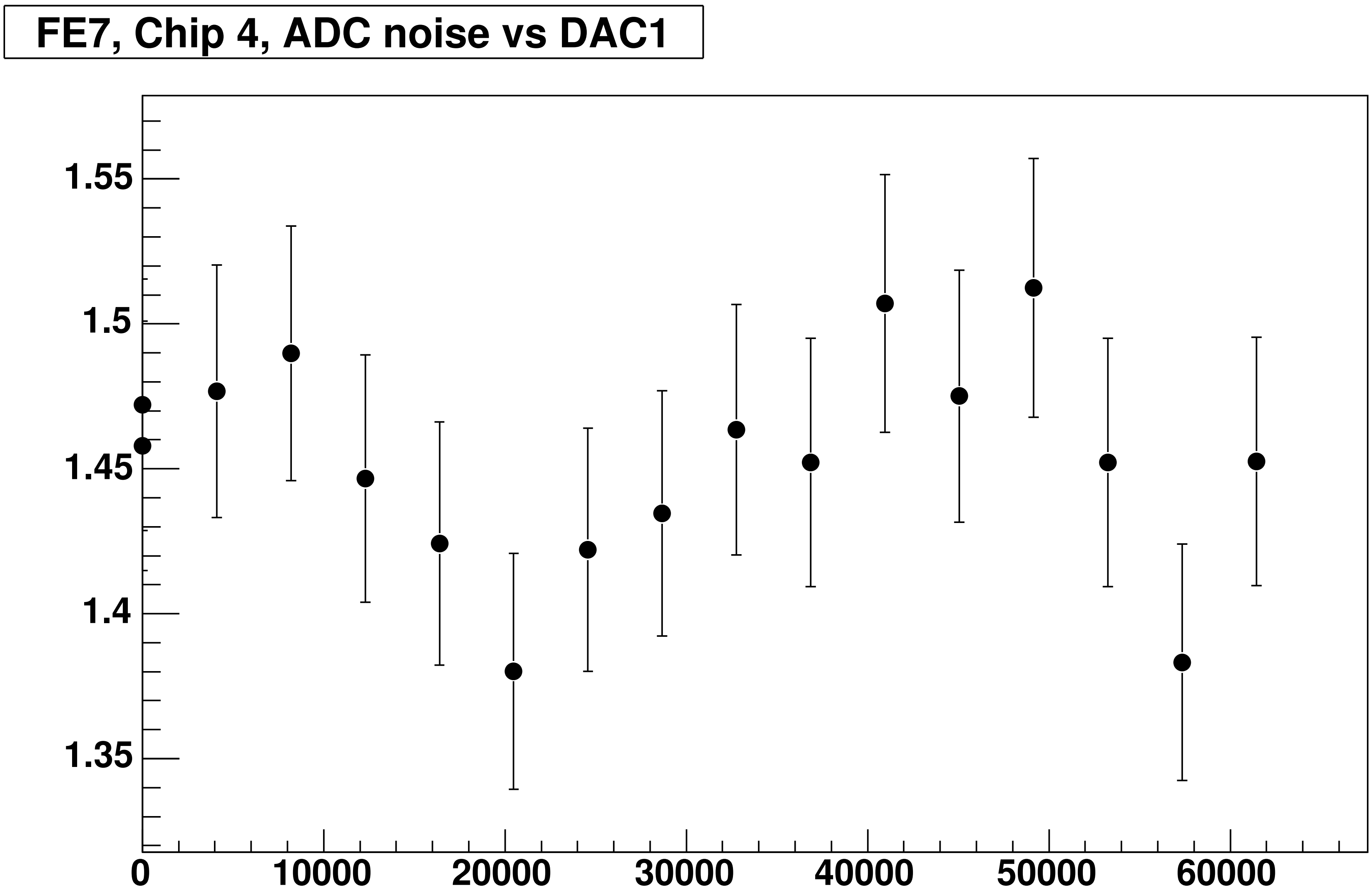
FE7, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2657 / 11
p0 72.72 ± 0.04104
p1 0.4506 ± 1.255e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

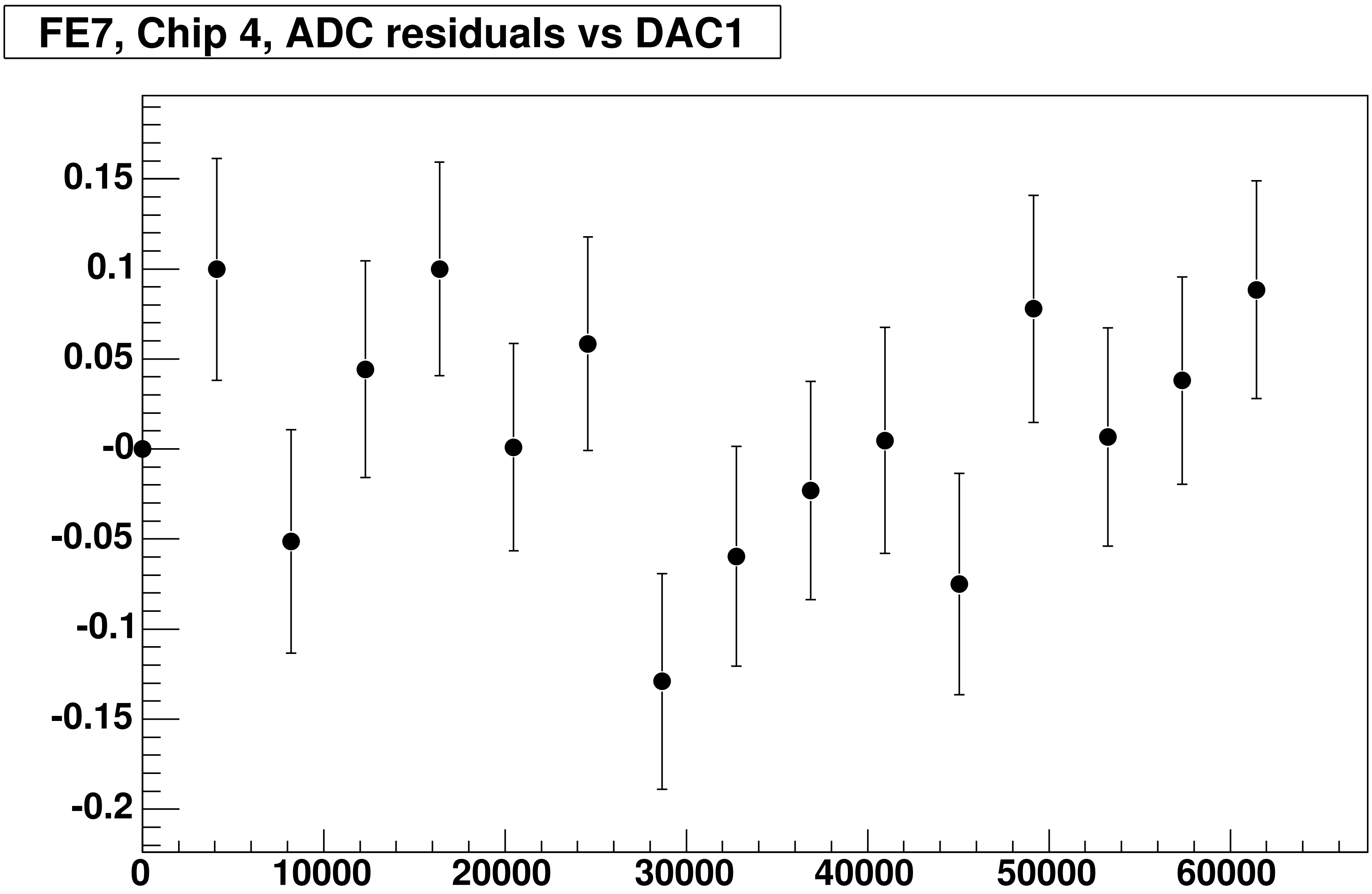


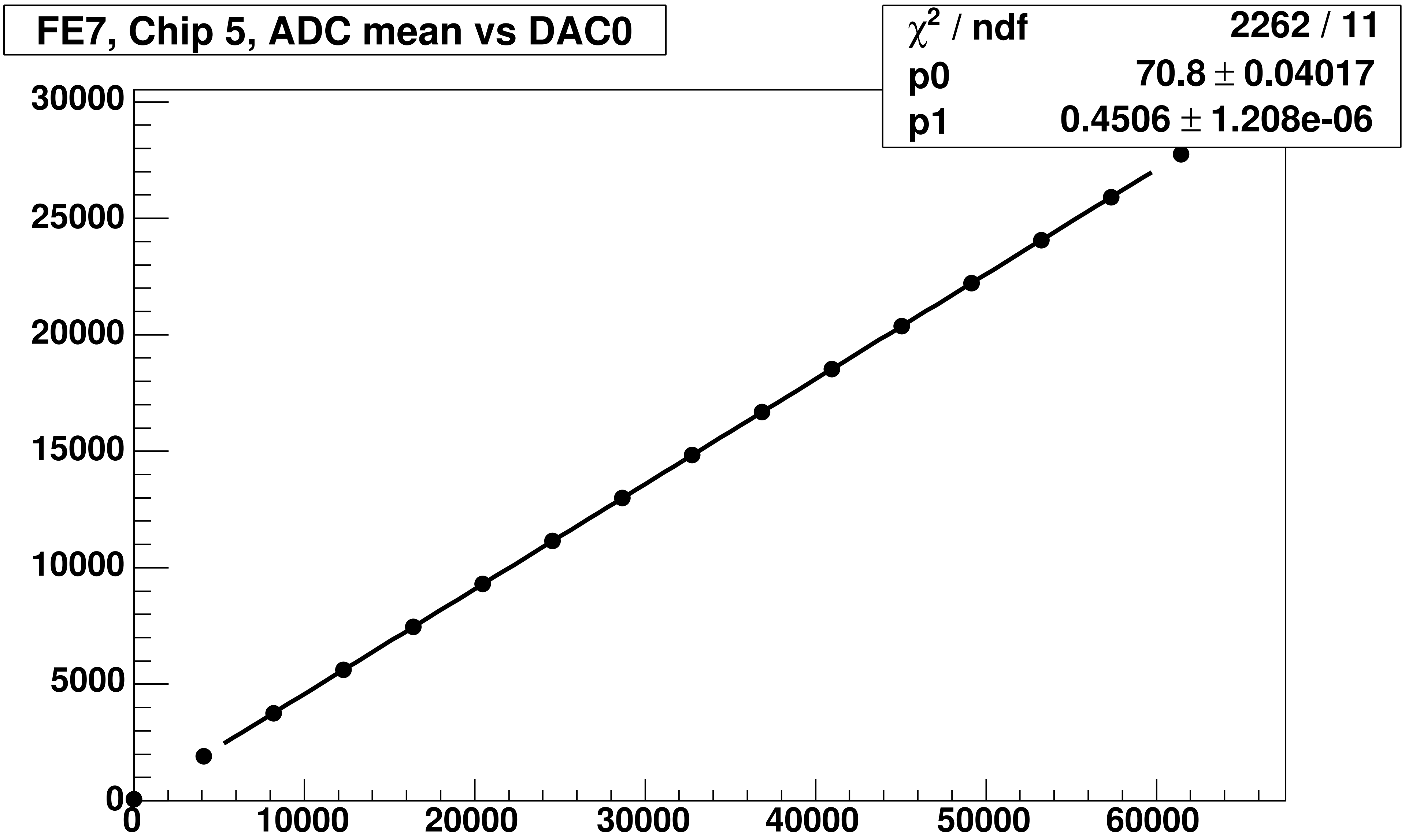
FE7, Chip 4, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

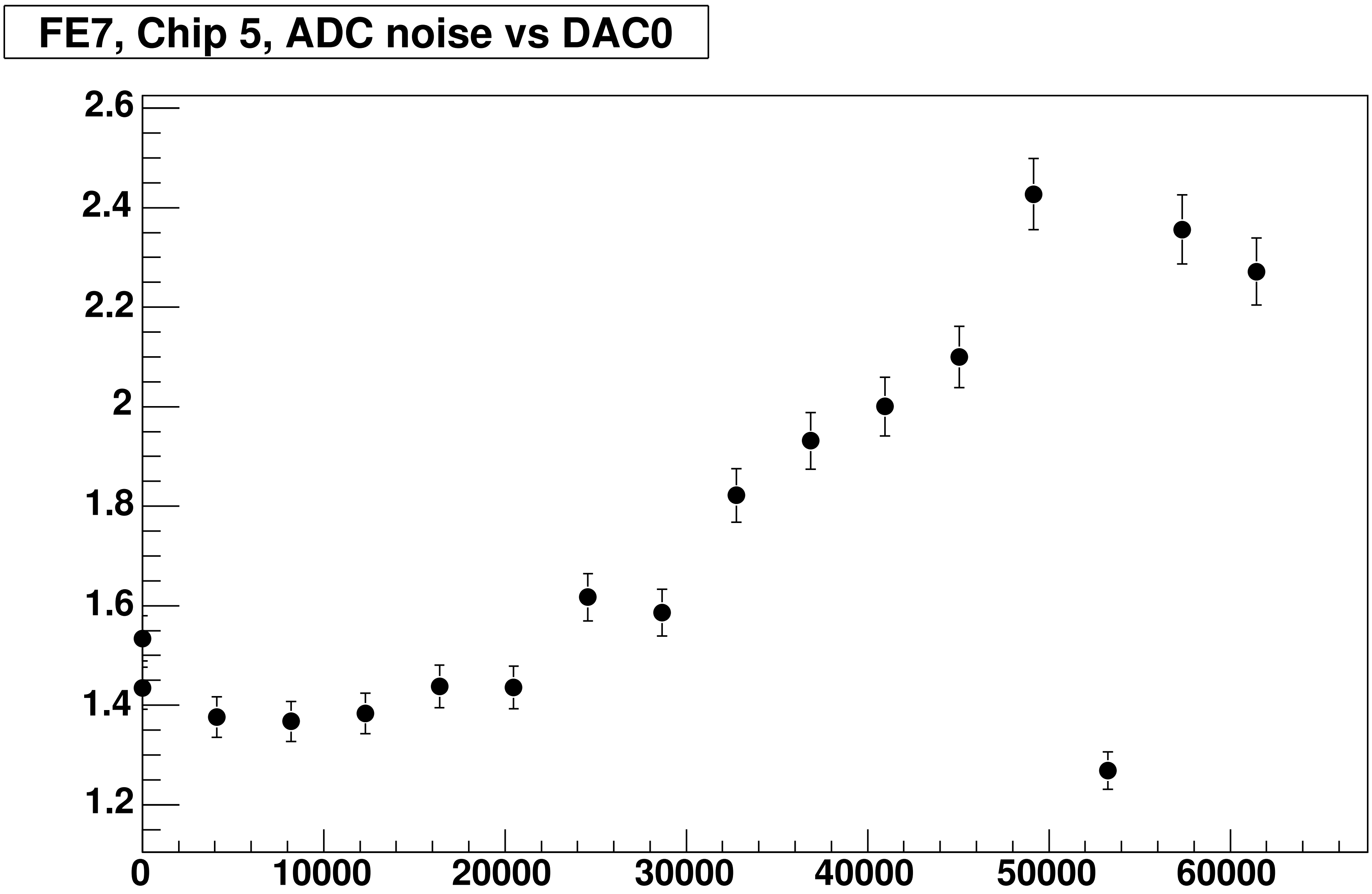

FE7, Chip 4, ADC mean vs DAC1
χ2 / ndf 14.26 / 11
p0 69.88 ± 0.03933
p1 2.953e-06 ± 1.089e-06
70.2
70.1
70
69.9
69.8
0
10000
20000
30000
40000
50000
60000

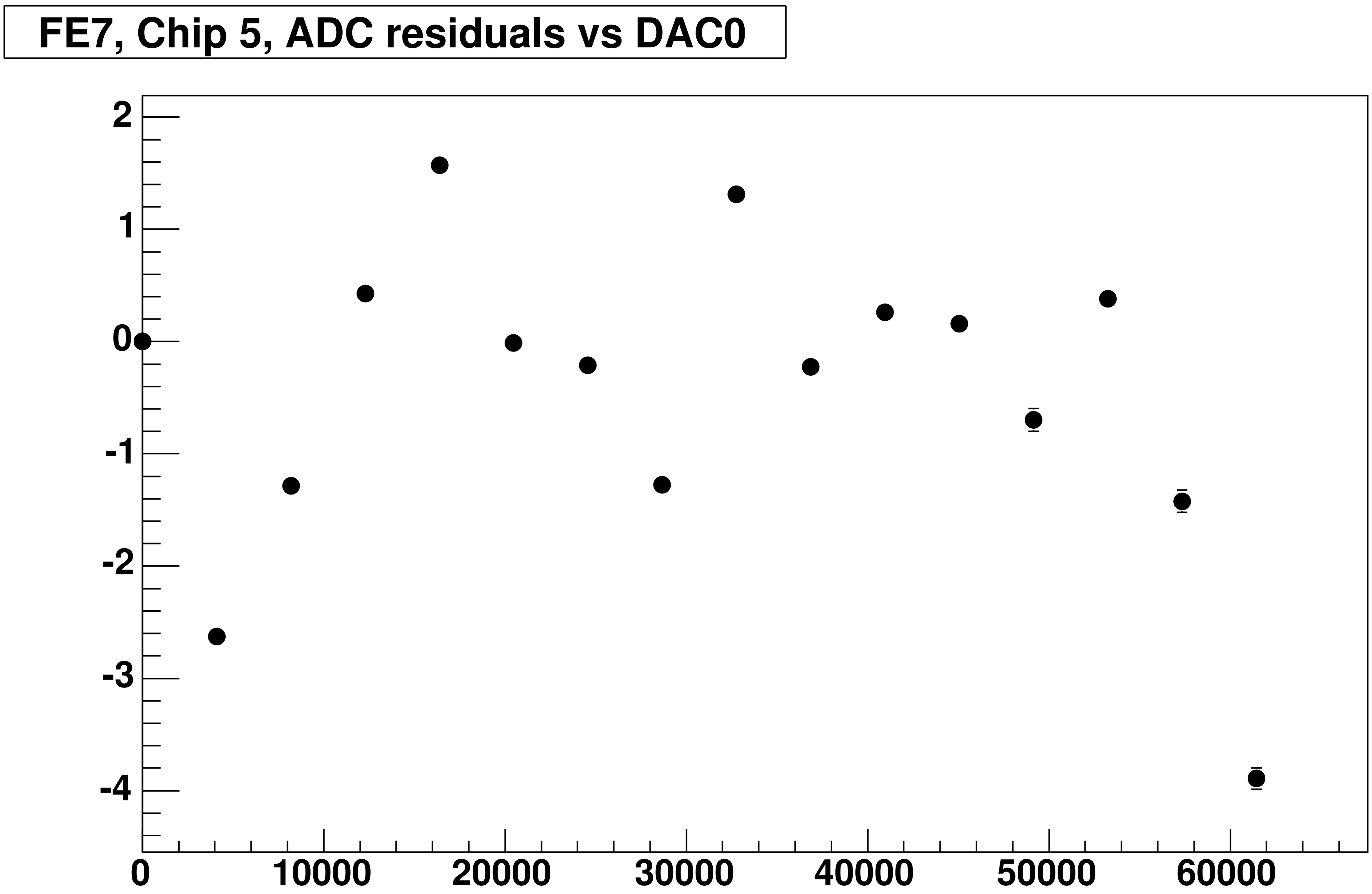

FE7, Chip 4, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

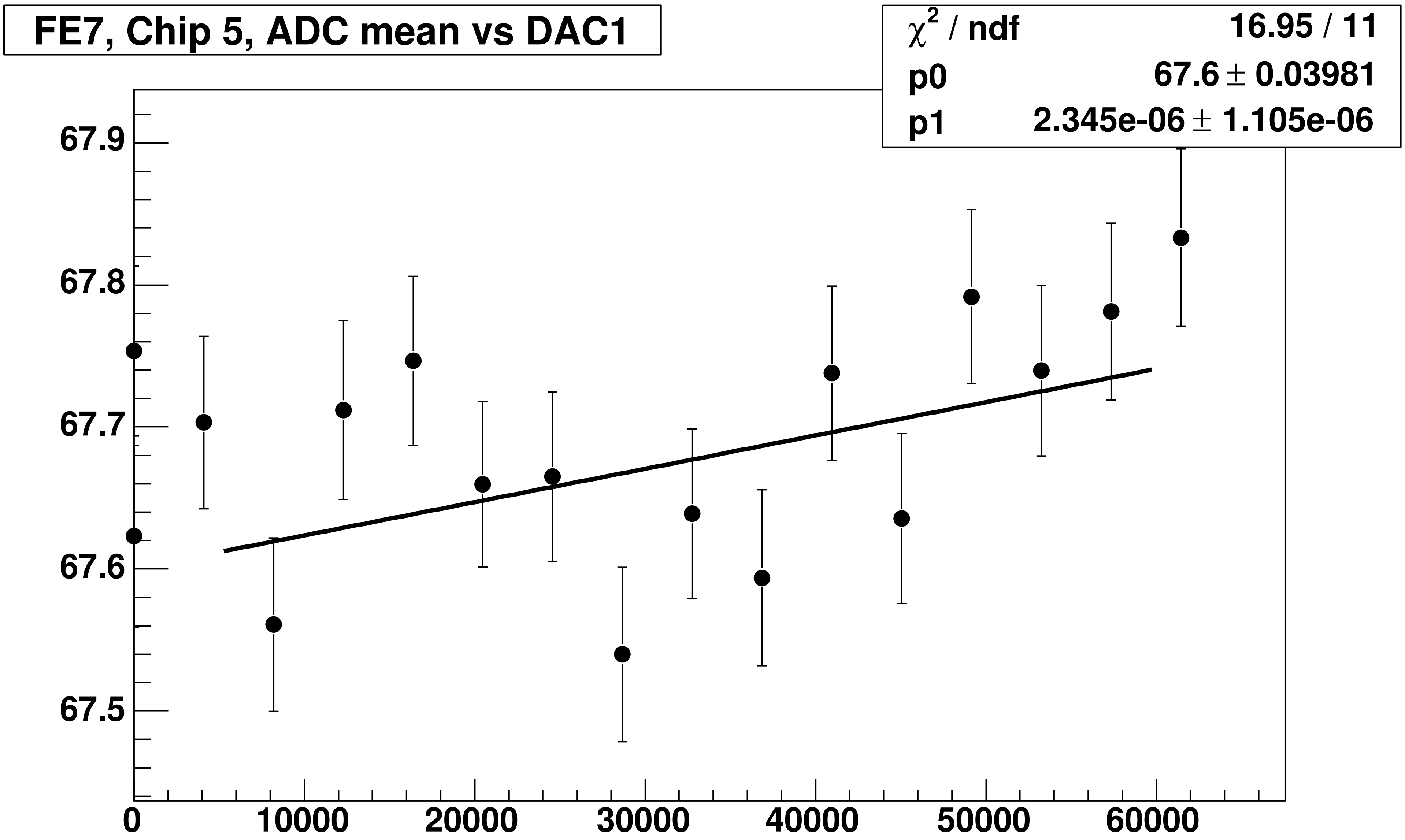

FE7, Chip 4, ADC residuals vs DAC1
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



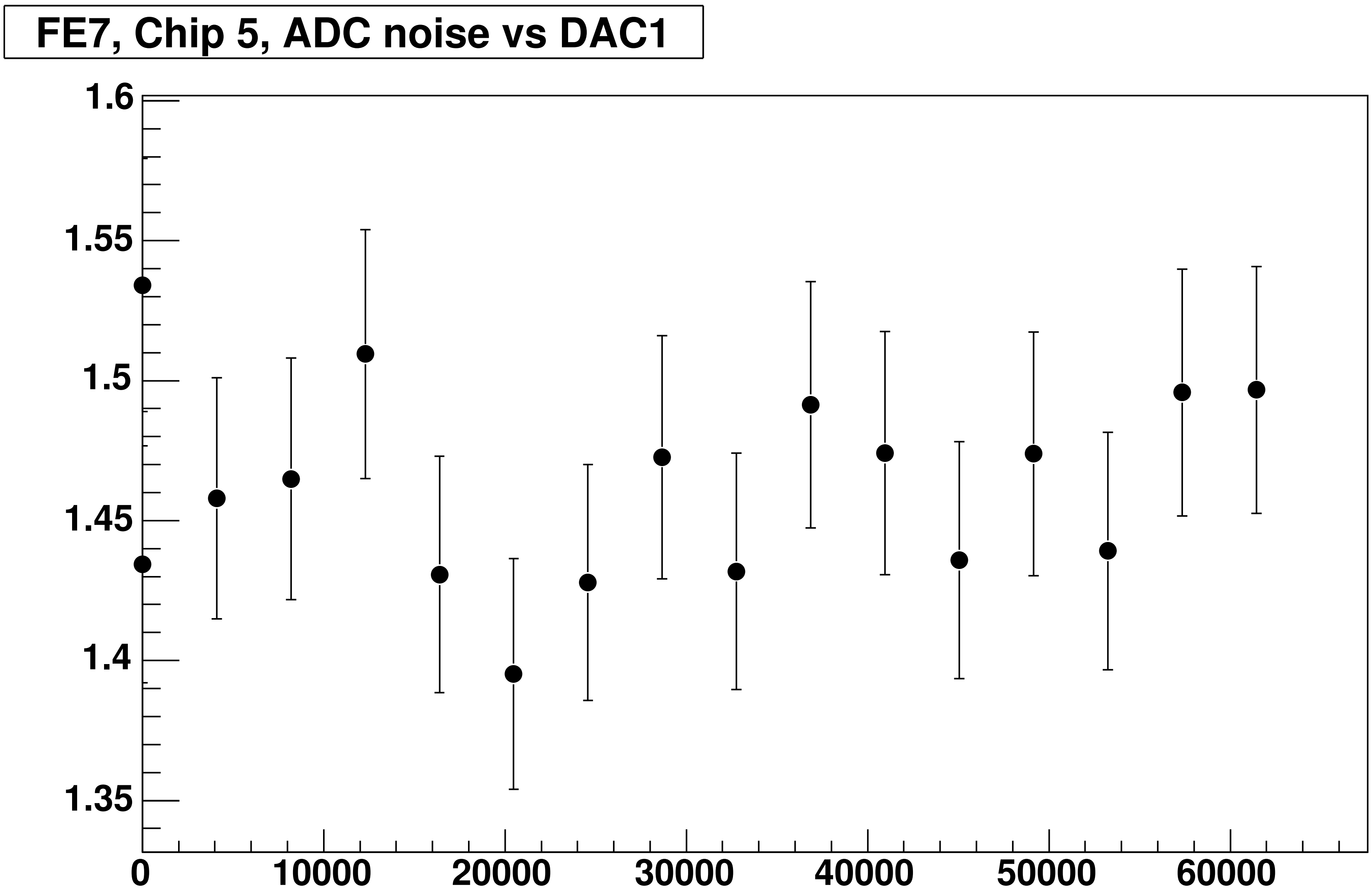
FE7, Chip 5, ADC mean vs DAC0
χ² / ndf 2262 / 11
p0 70.8 ± 0.04017
p1 0.4506 ± 1.208e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 5, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

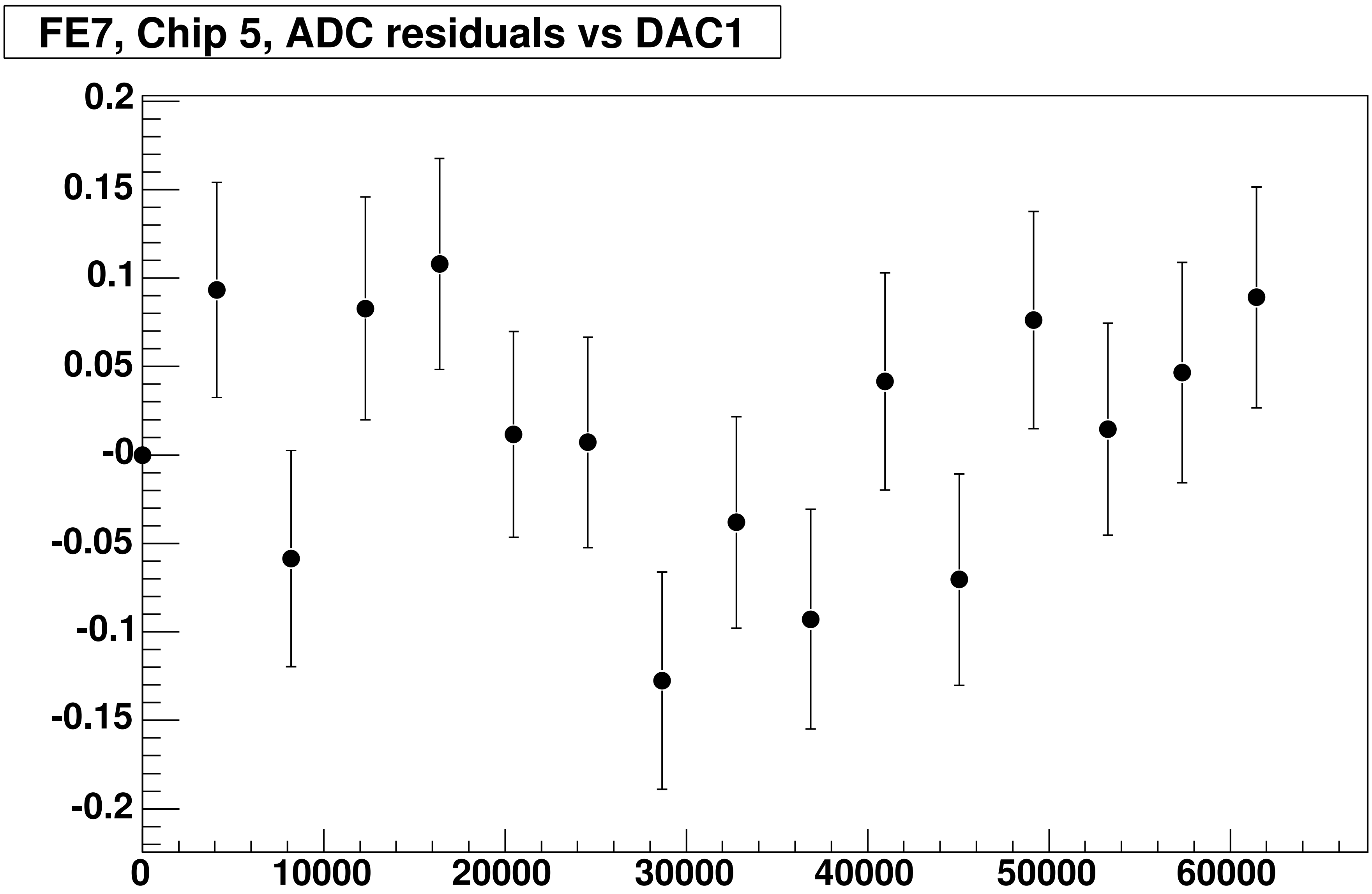

FE7, Chip 5, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

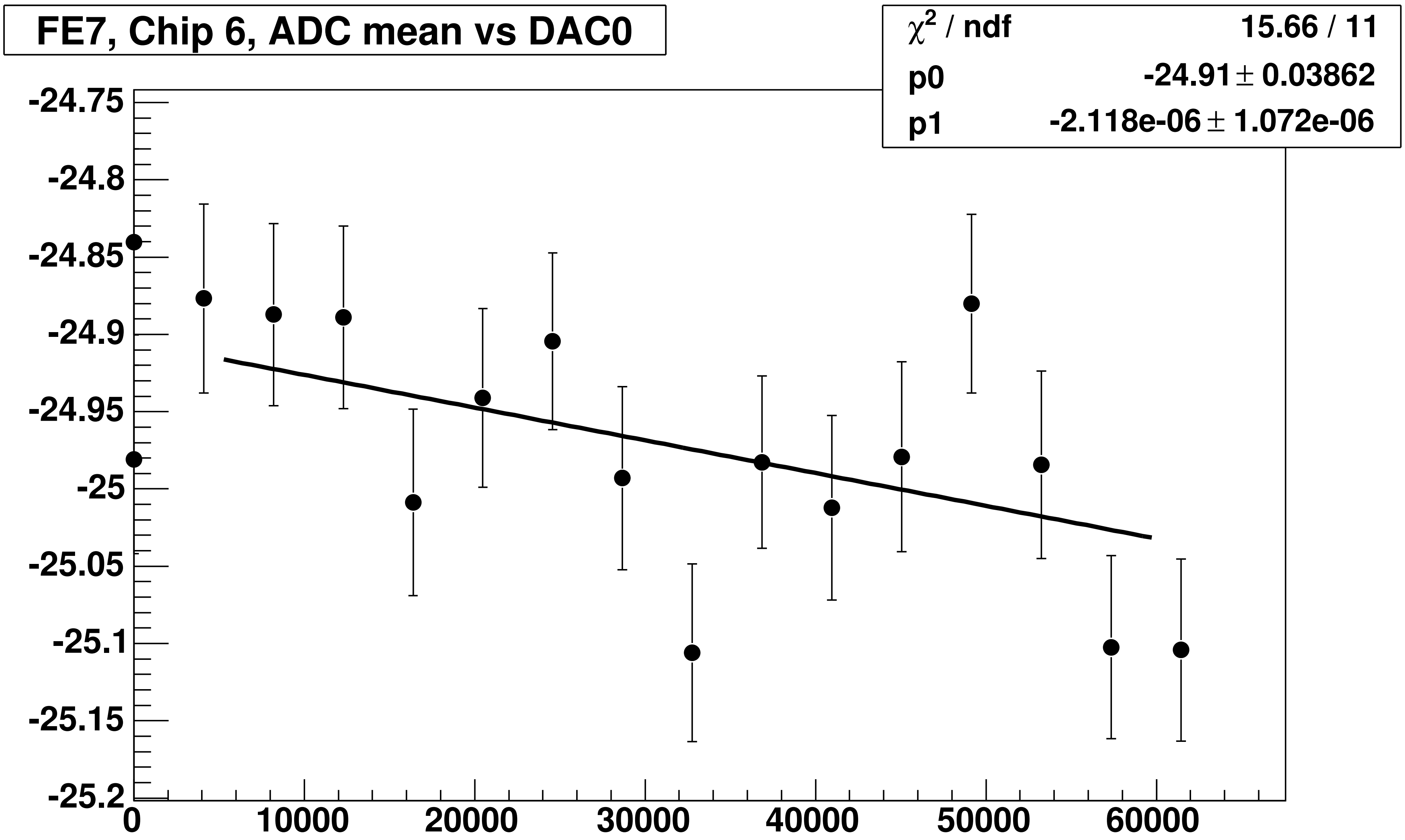


FE7, Chip 5, ADC mean vs DAC1
χ^2 / ndf 16.95 / 11
p0 67.6 ± 0.03981
p1 2.345e-06 ± 1.105e-06
67.5
67.6
67.7
67.8
67.9
0
10000
20000
30000
40000
50000
60000

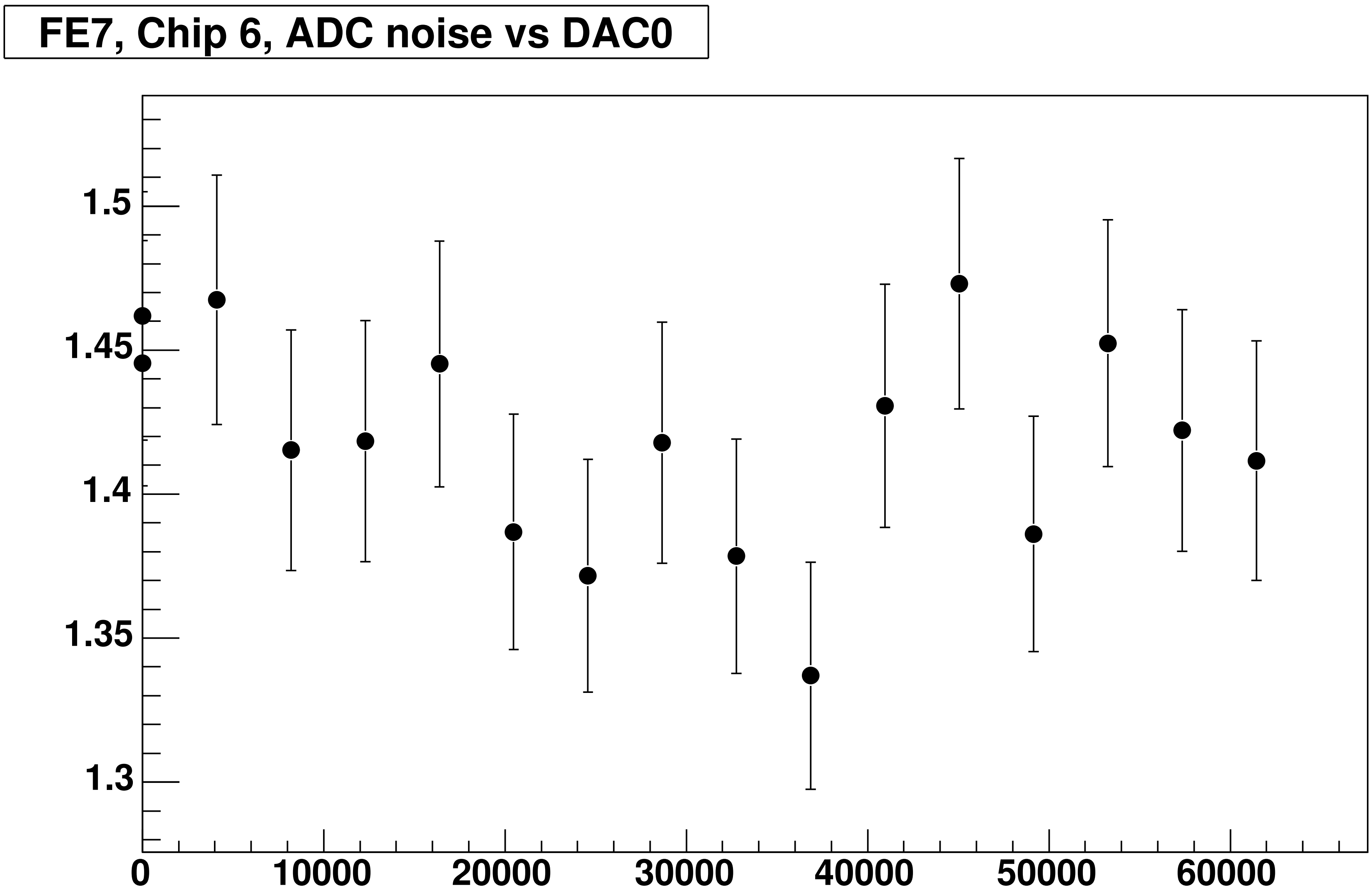


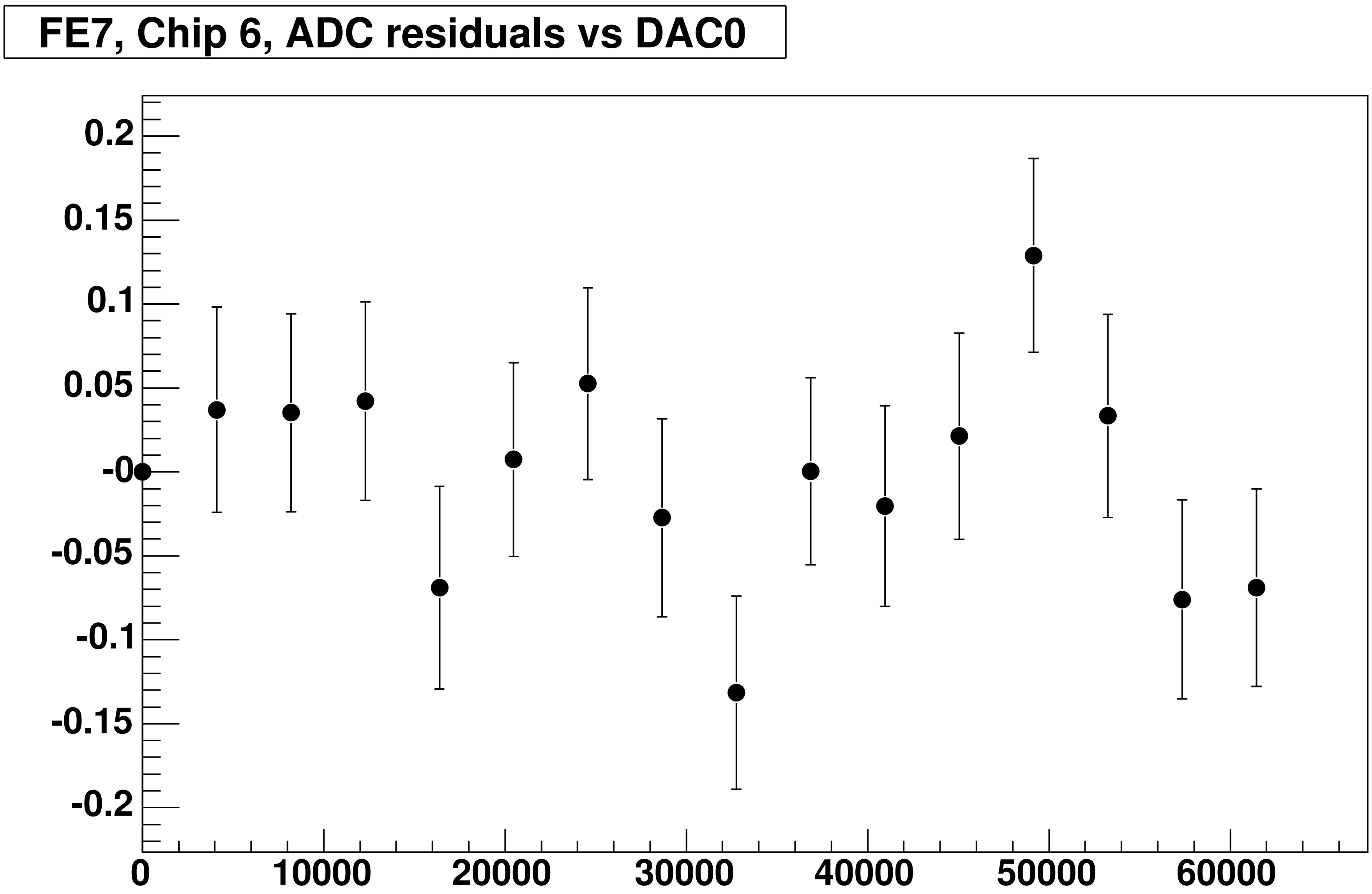
FE7, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

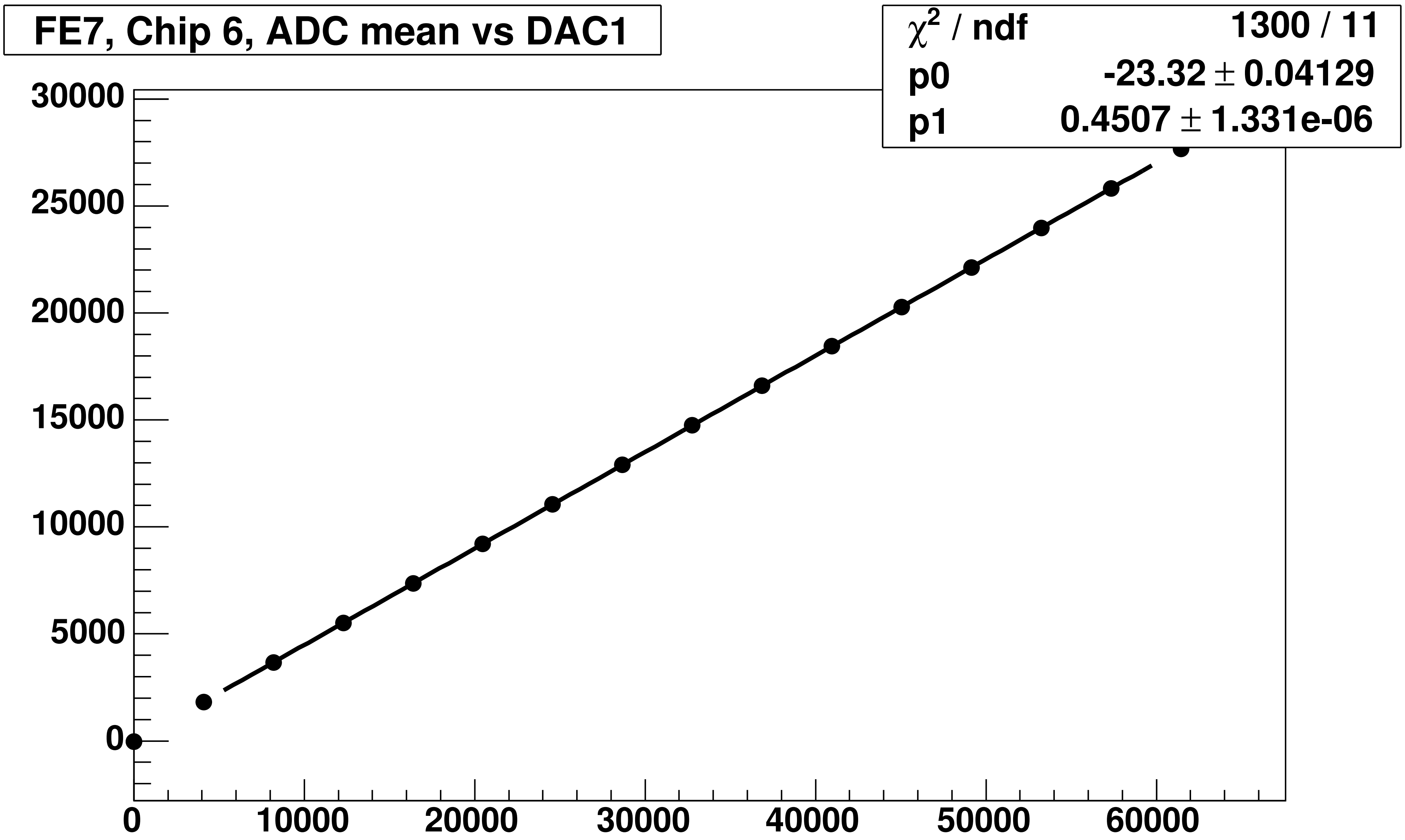

FE7, Chip 5, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

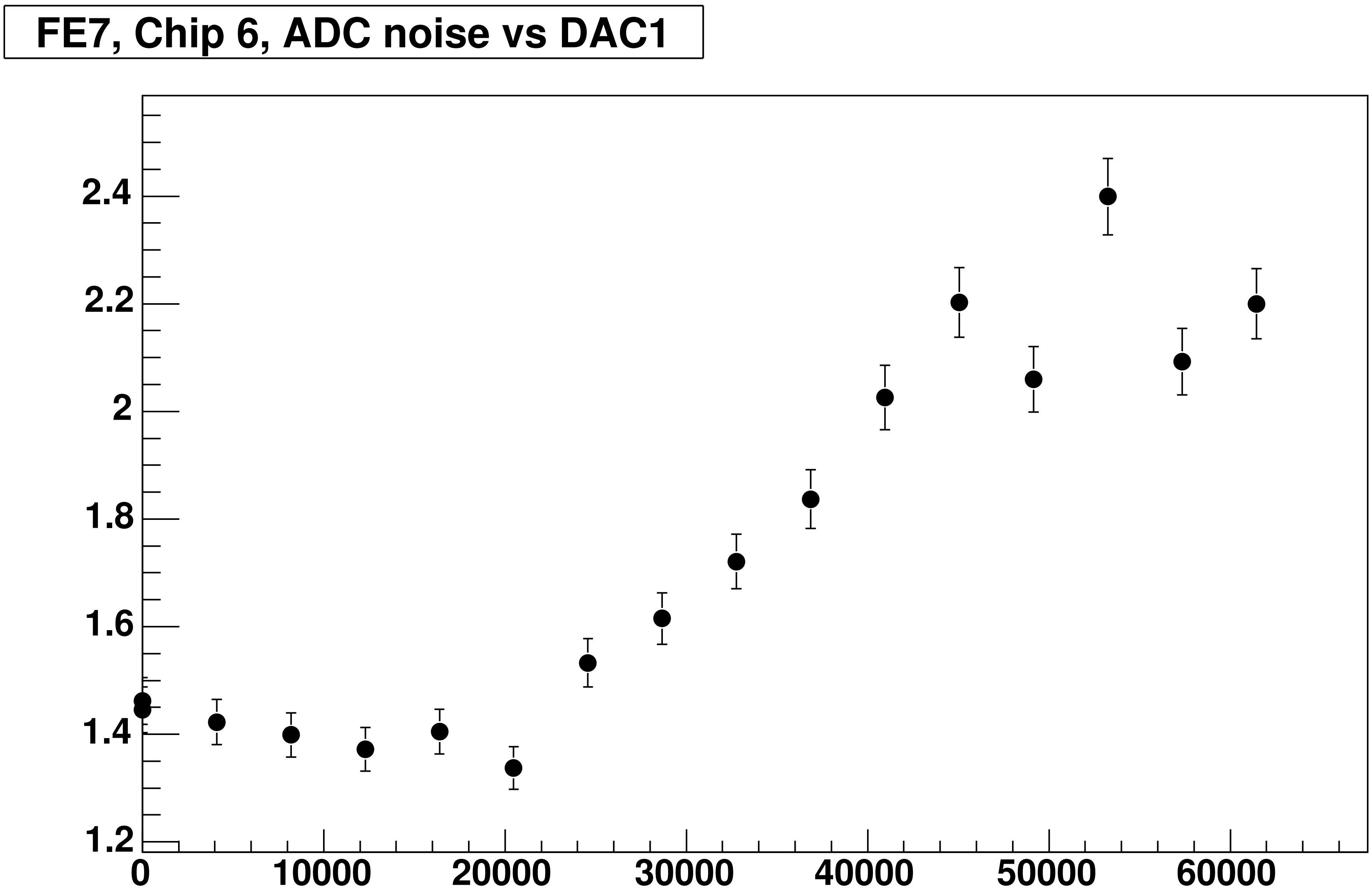


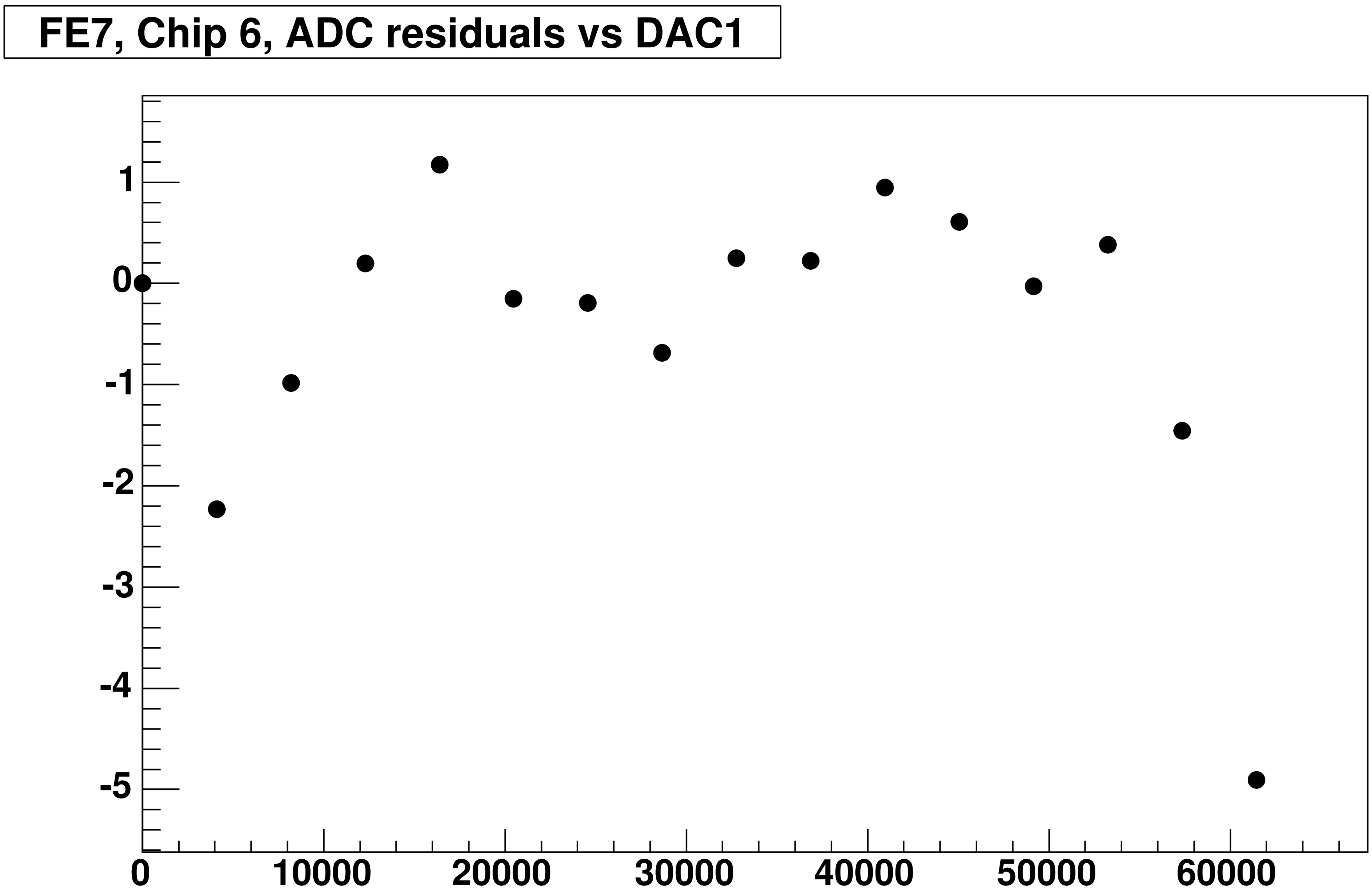
FE7, Chip 6, ADC mean vs DAC0
χ^2 / ndf 15.66 / 11
p0 -24.91 ± 0.03862
p1 -2.118e-06 ± 1.072e-06
-24.75
-24.8
-24.85
-24.9
-24.95
-25
-25.05
-25.1
-25.15
-25.2
0
10000
20000
30000
40000
50000
60000

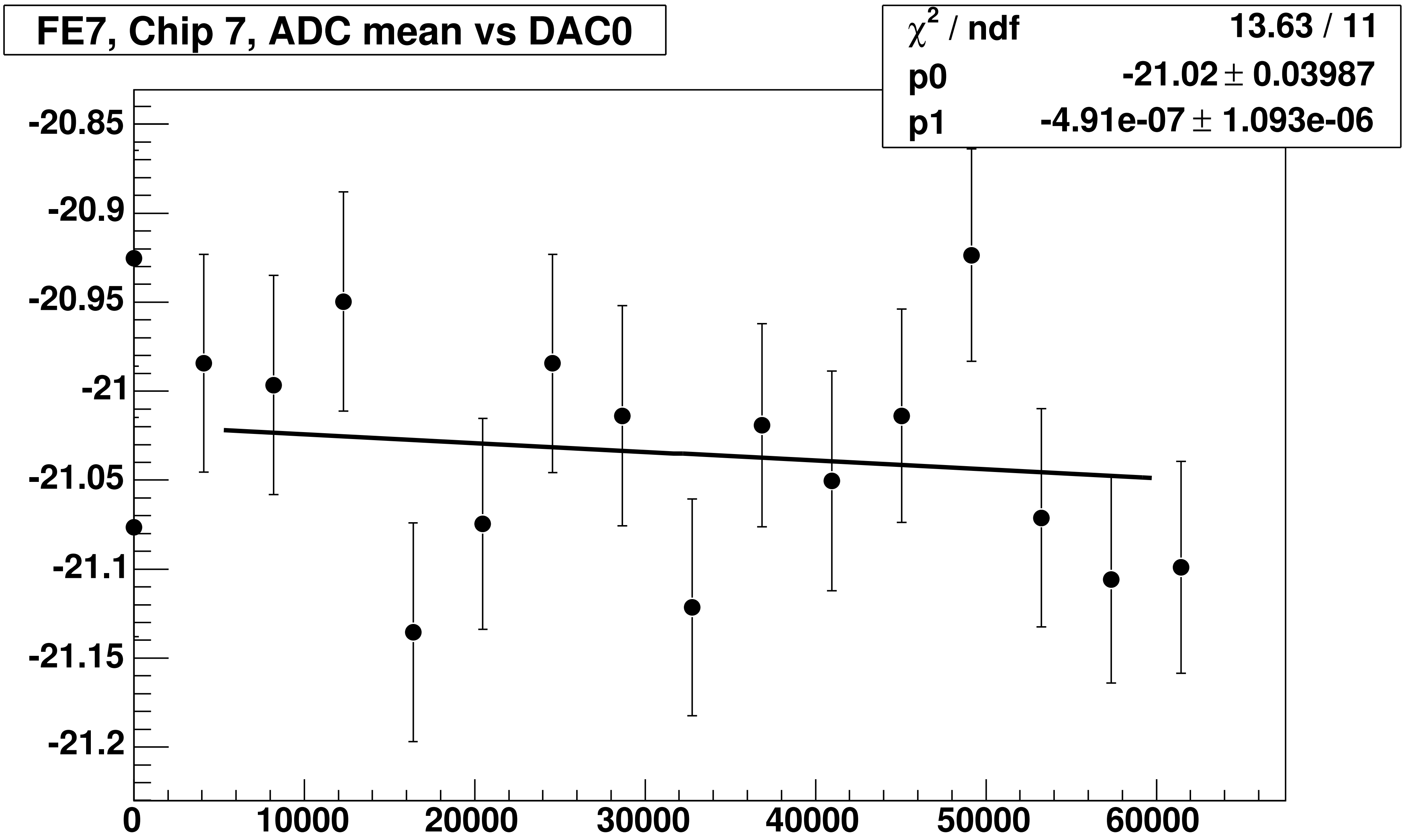

FE7, Chip 6, ADC noise vs DAC0
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

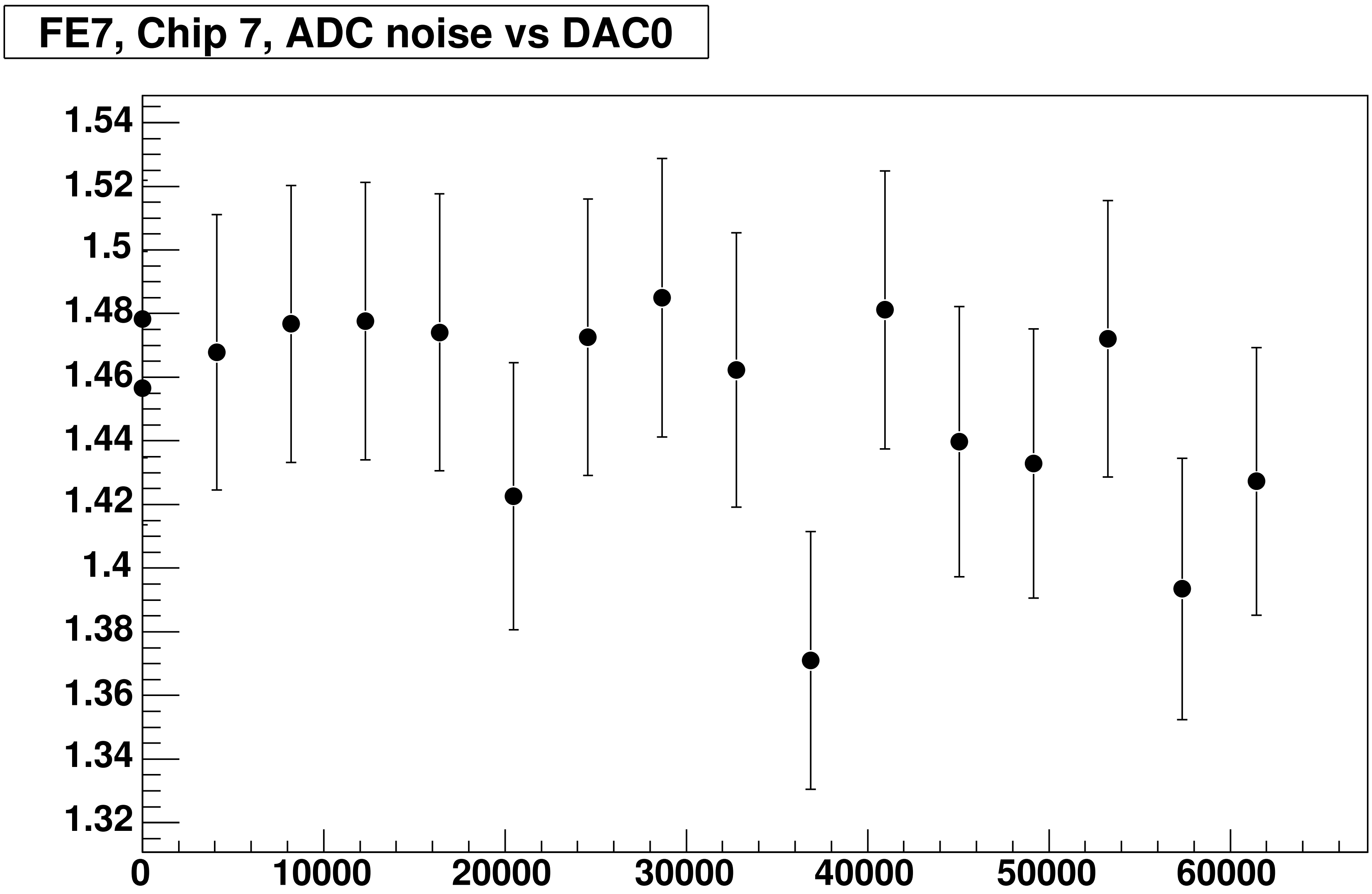

FE7, Chip 6, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1300 / 11
p0 -23.32 ± 0.04129
p1 0.4507 ± 1.331e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

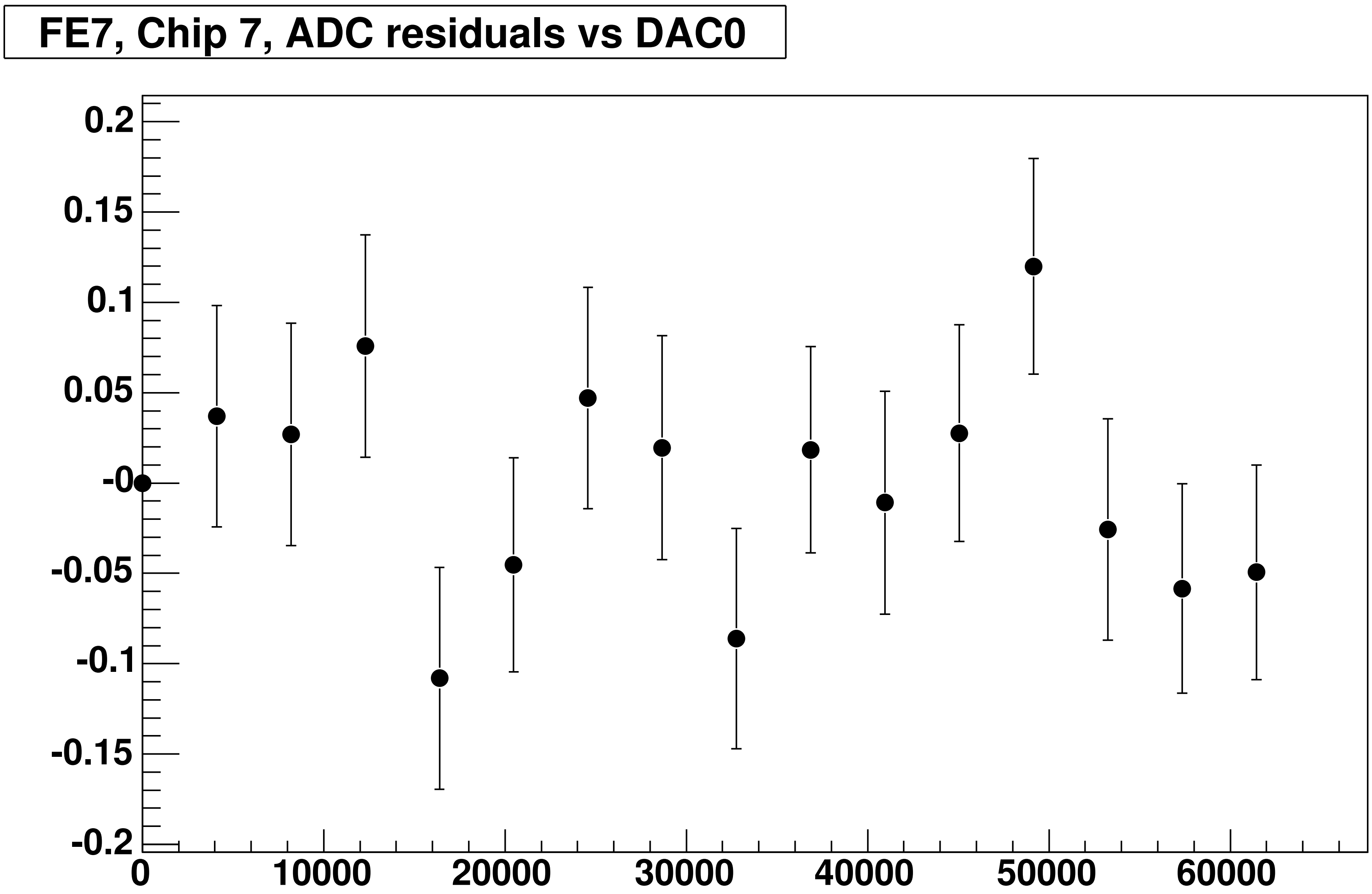

FE7, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

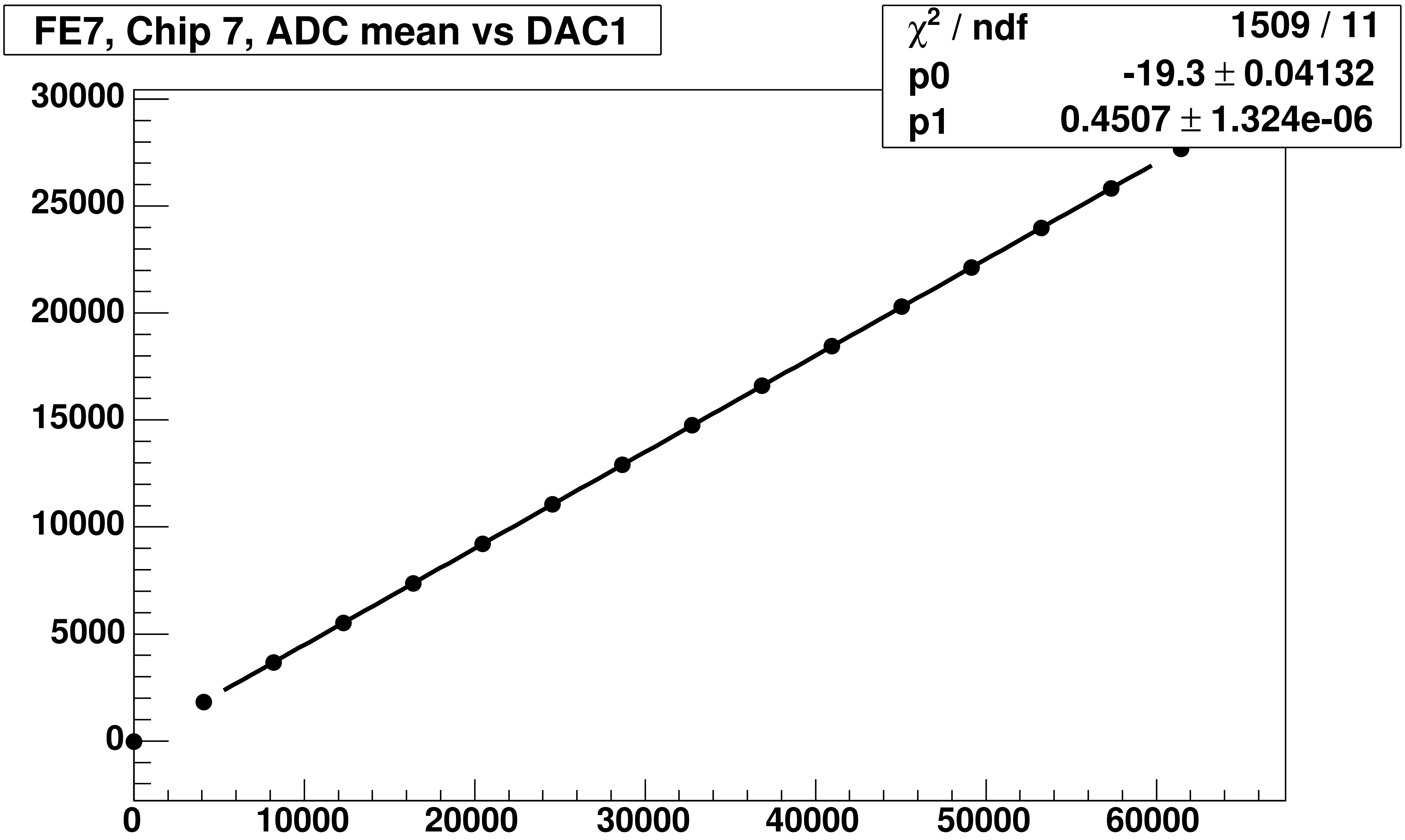

FE7, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE7, Chip 7, ADC mean vs DAC0
χ^2 / ndf 13.63 / 11
p0 -21.02 ± 0.03987
p1 -4.91e-07 ± 1.093e-06
-20.85
-20.9
-20.95
-21
-21.05
-21.1
-21.15
-21.2
0
10000
20000
30000
40000
50000
60000

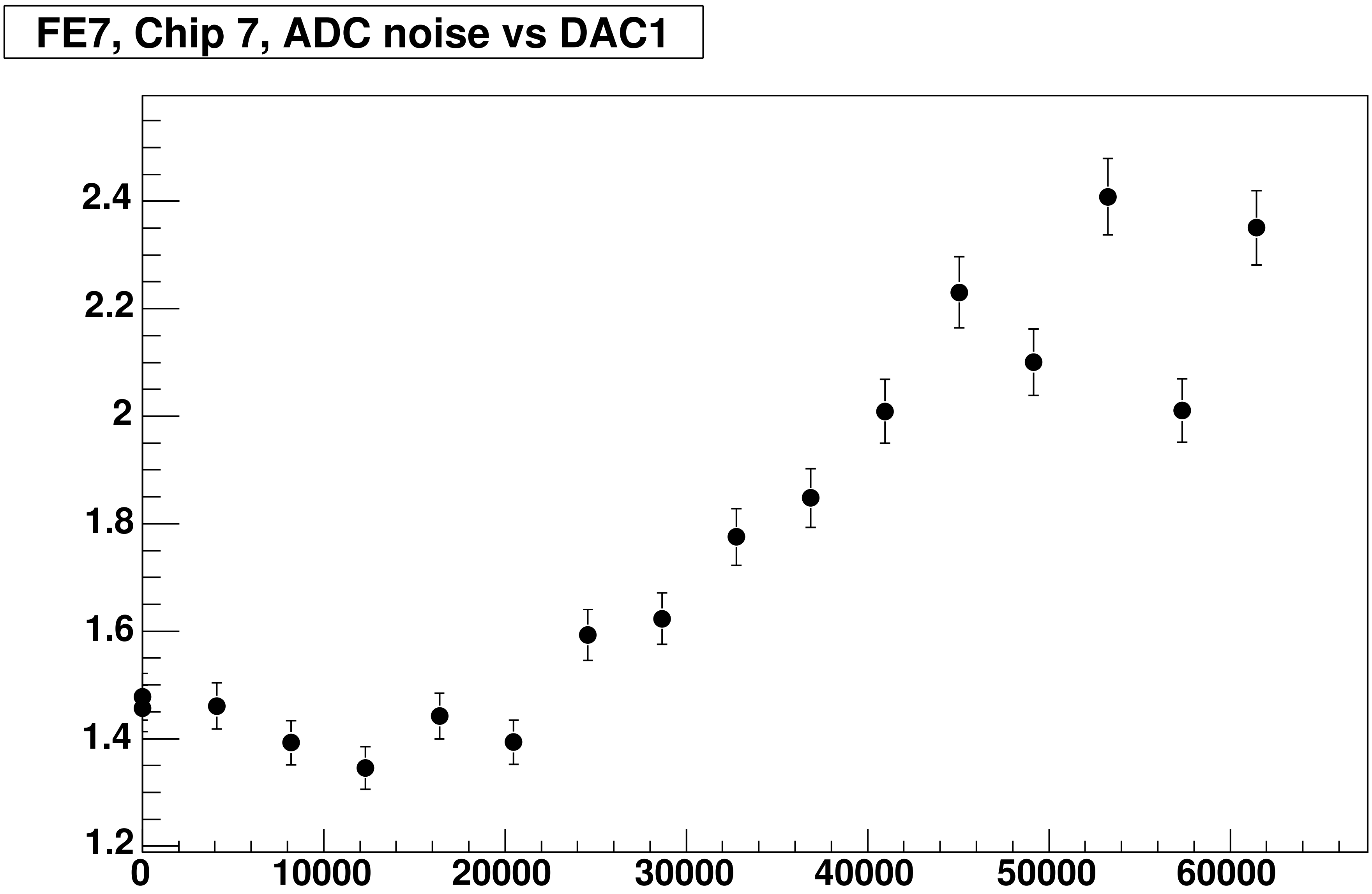


FE7, Chip 7, ADC noise vs DAC0
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
1.34
1.32
0
10000
20000
30000
40000
50000
60000

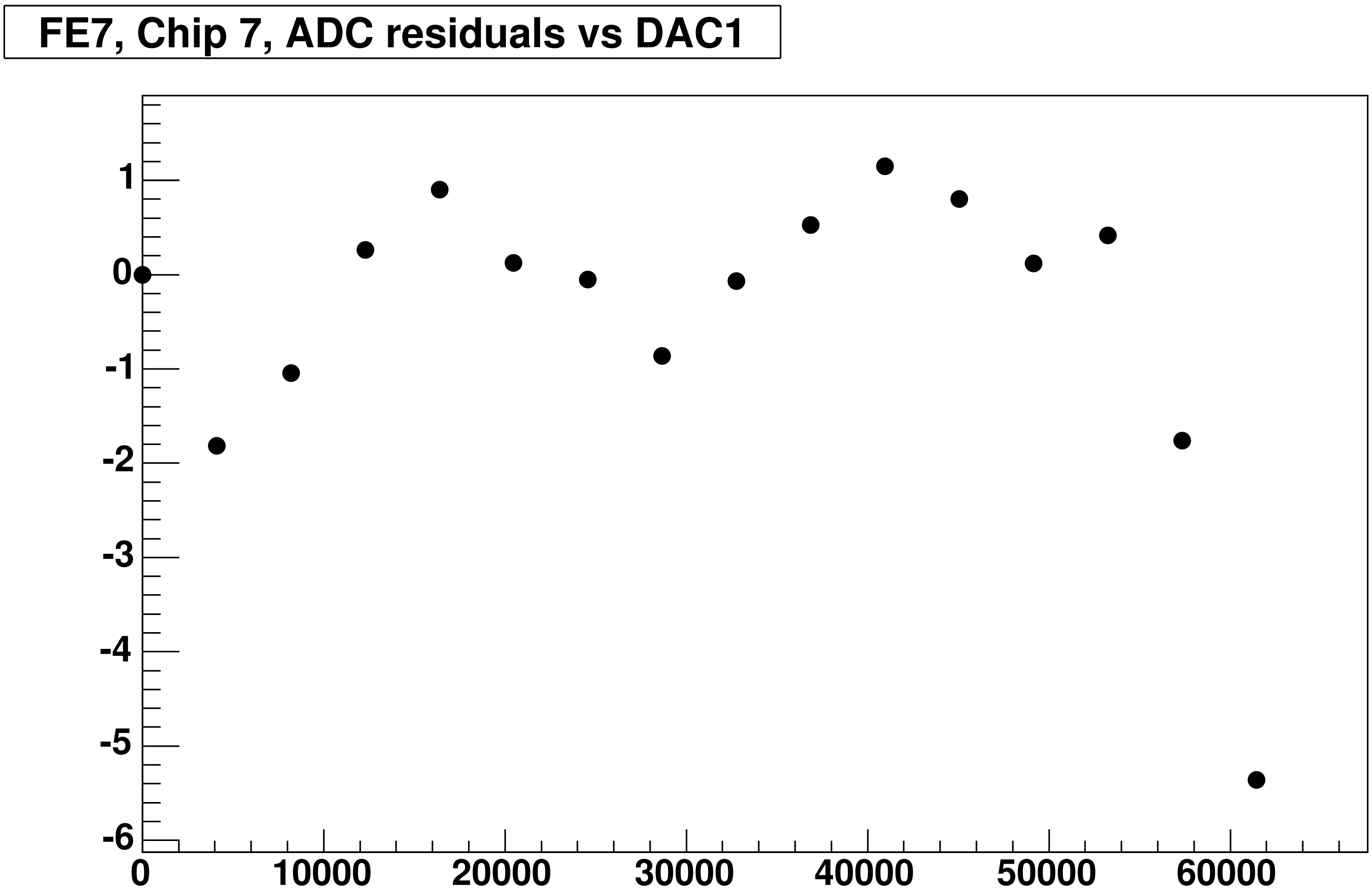

FE7, Chip 7, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

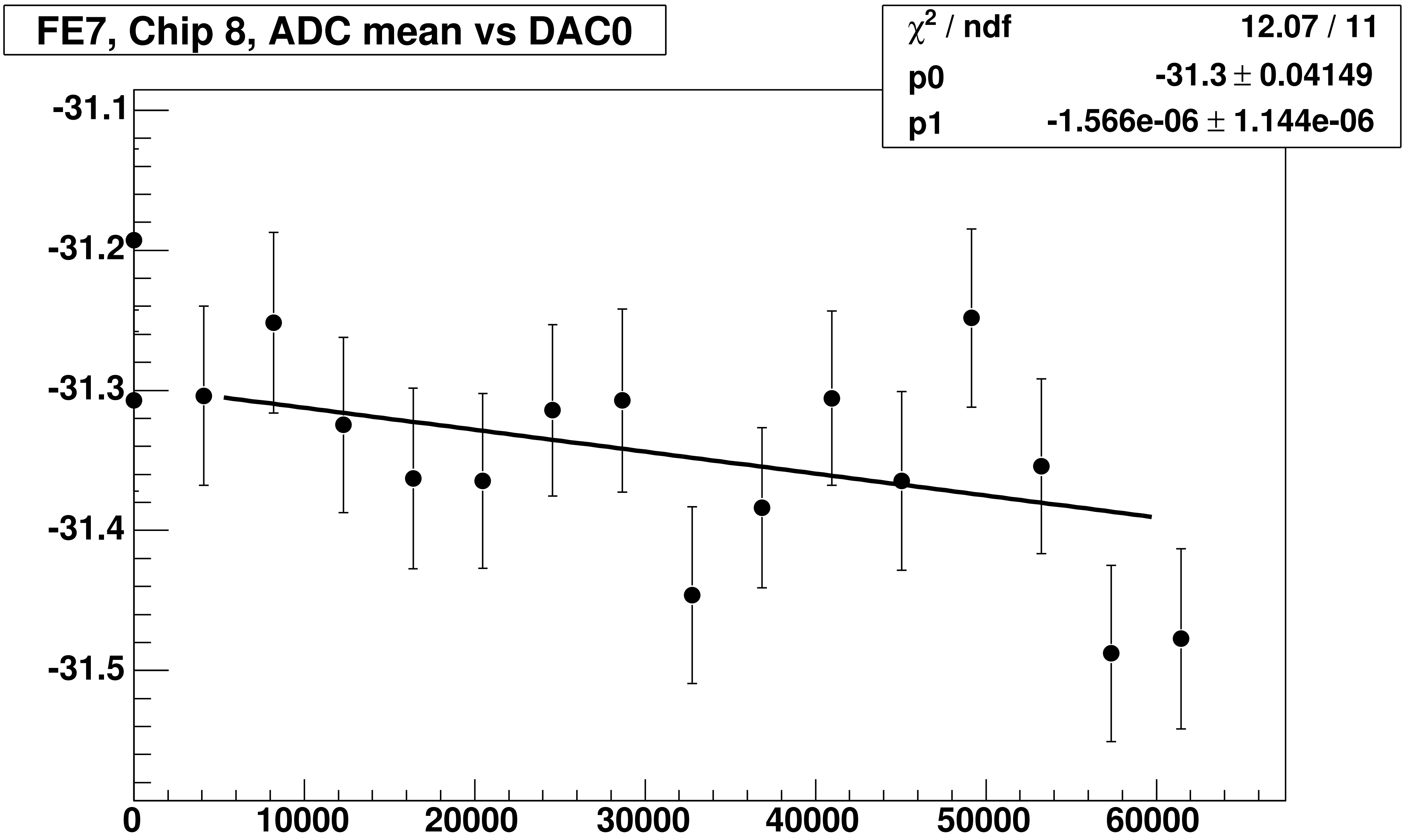


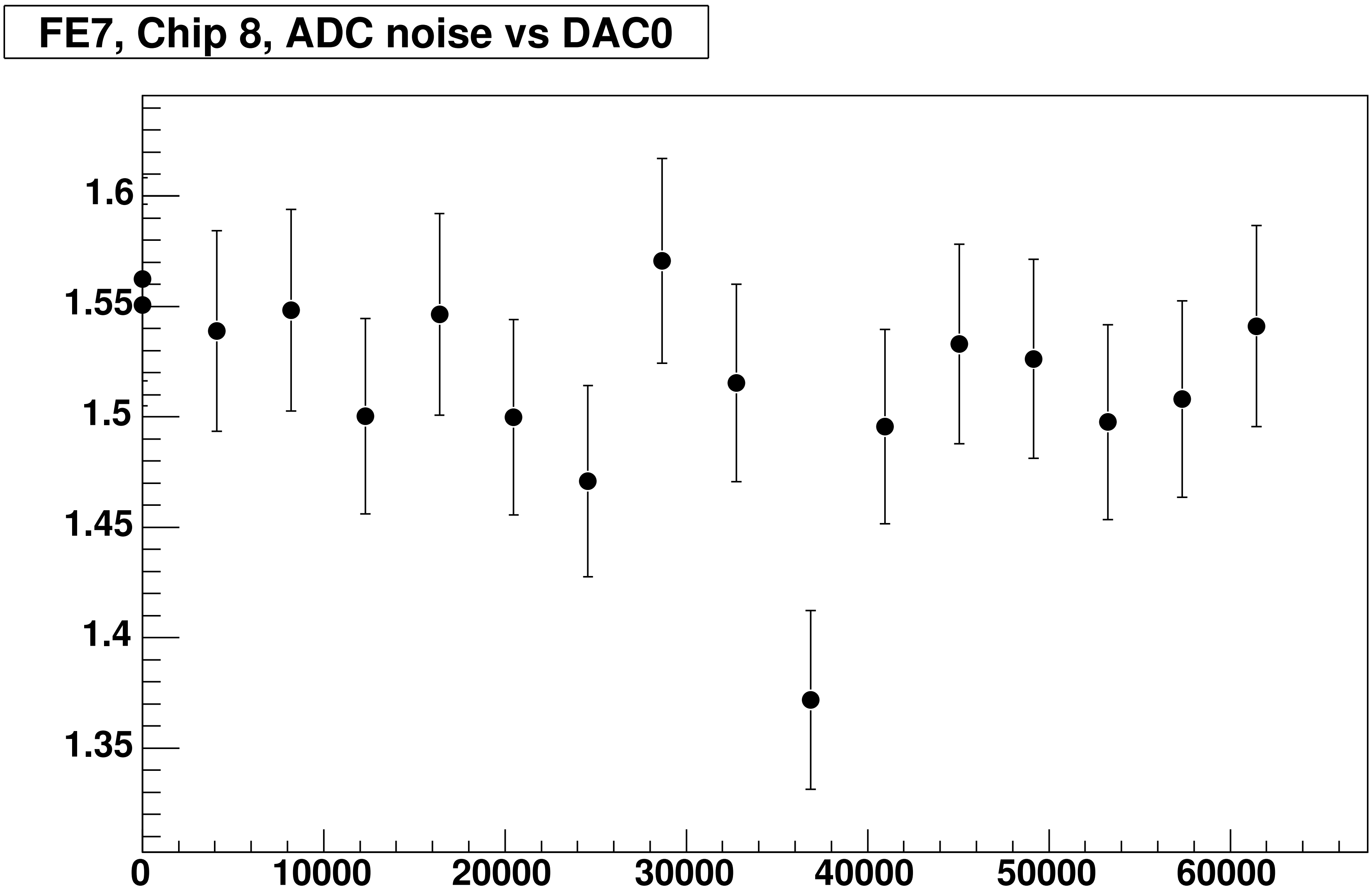
FE7, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1509 / 11
p0 -19.3 ± 0.04132
p1 0.4507 ± 1.324e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

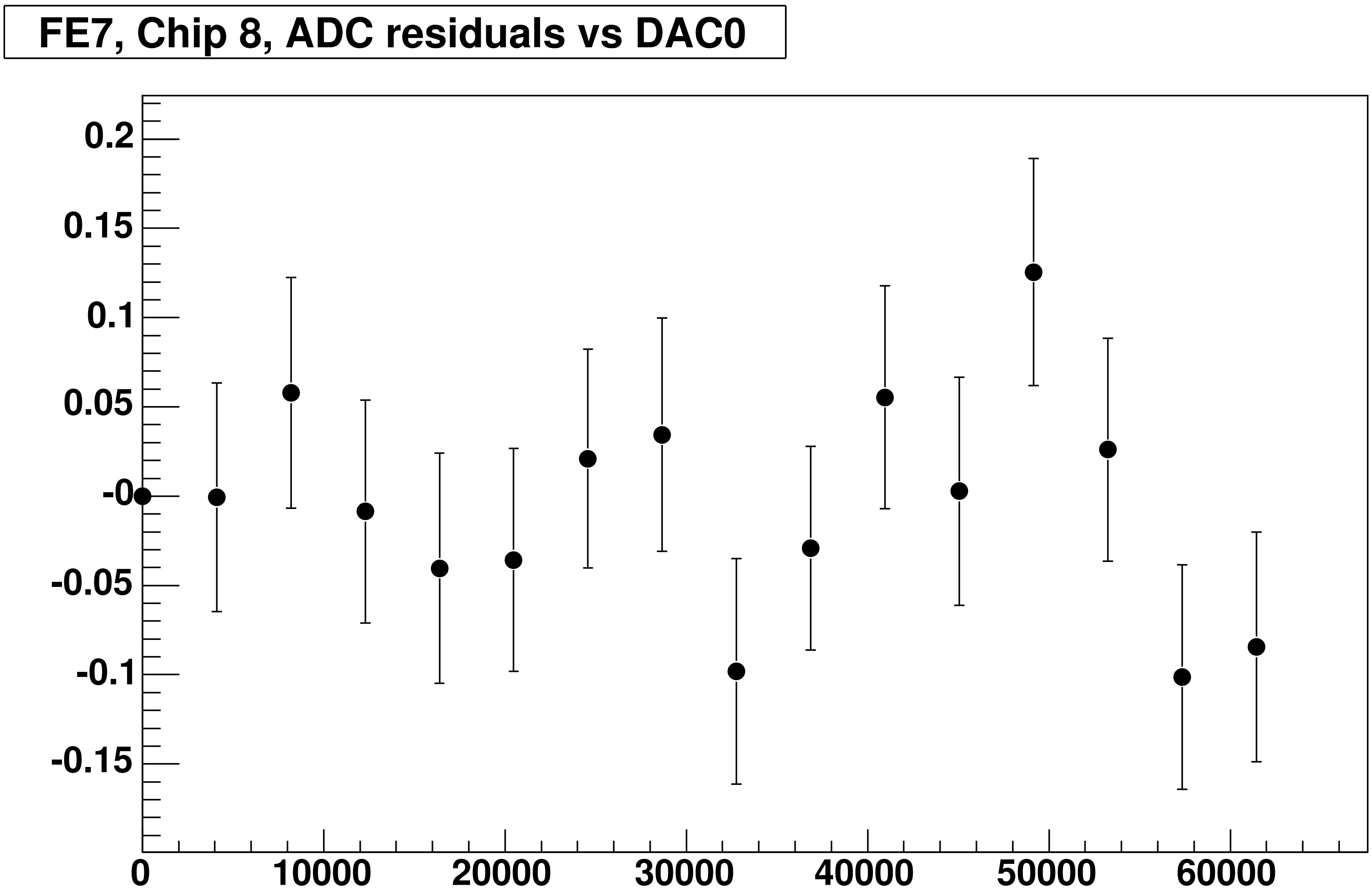


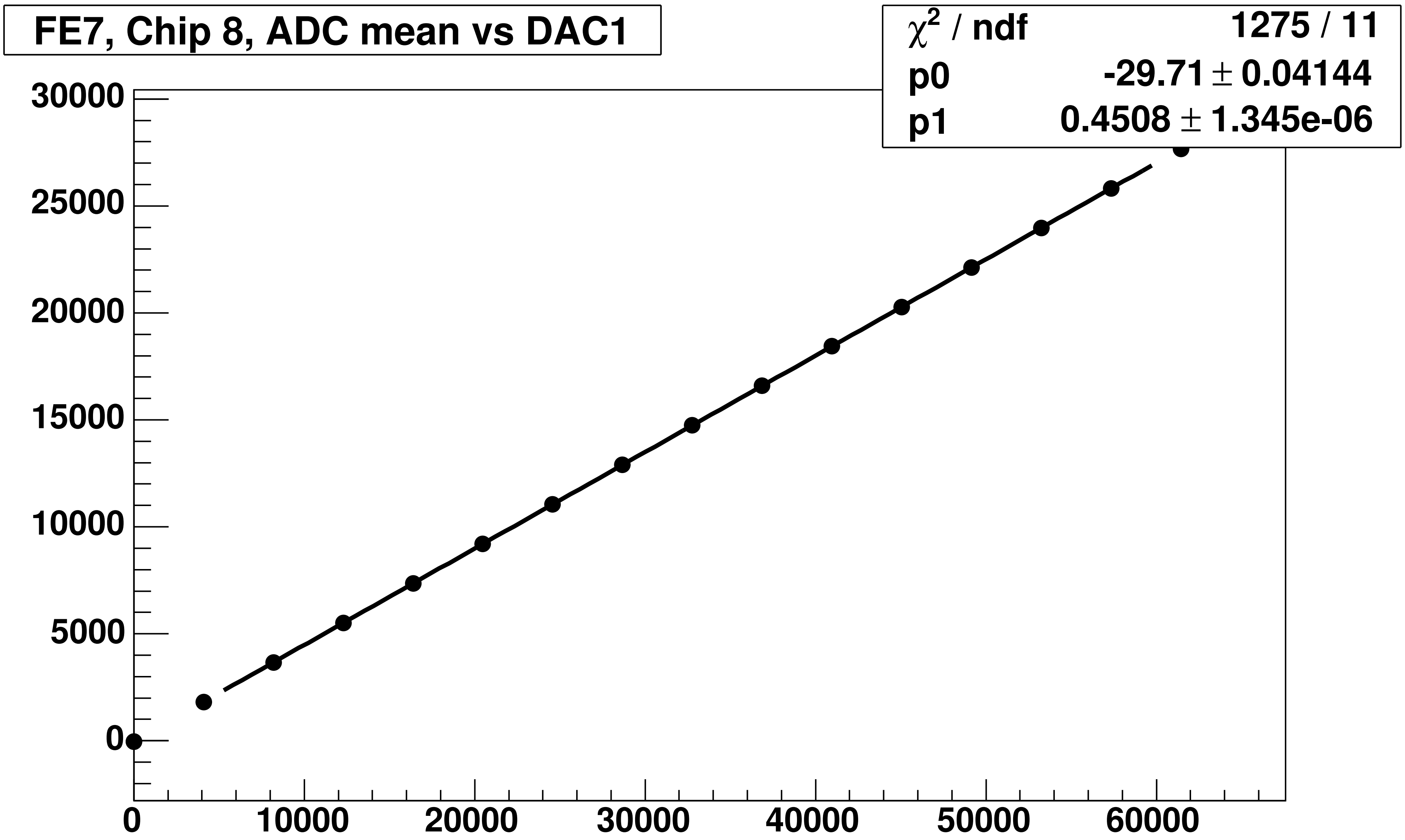
FE7, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

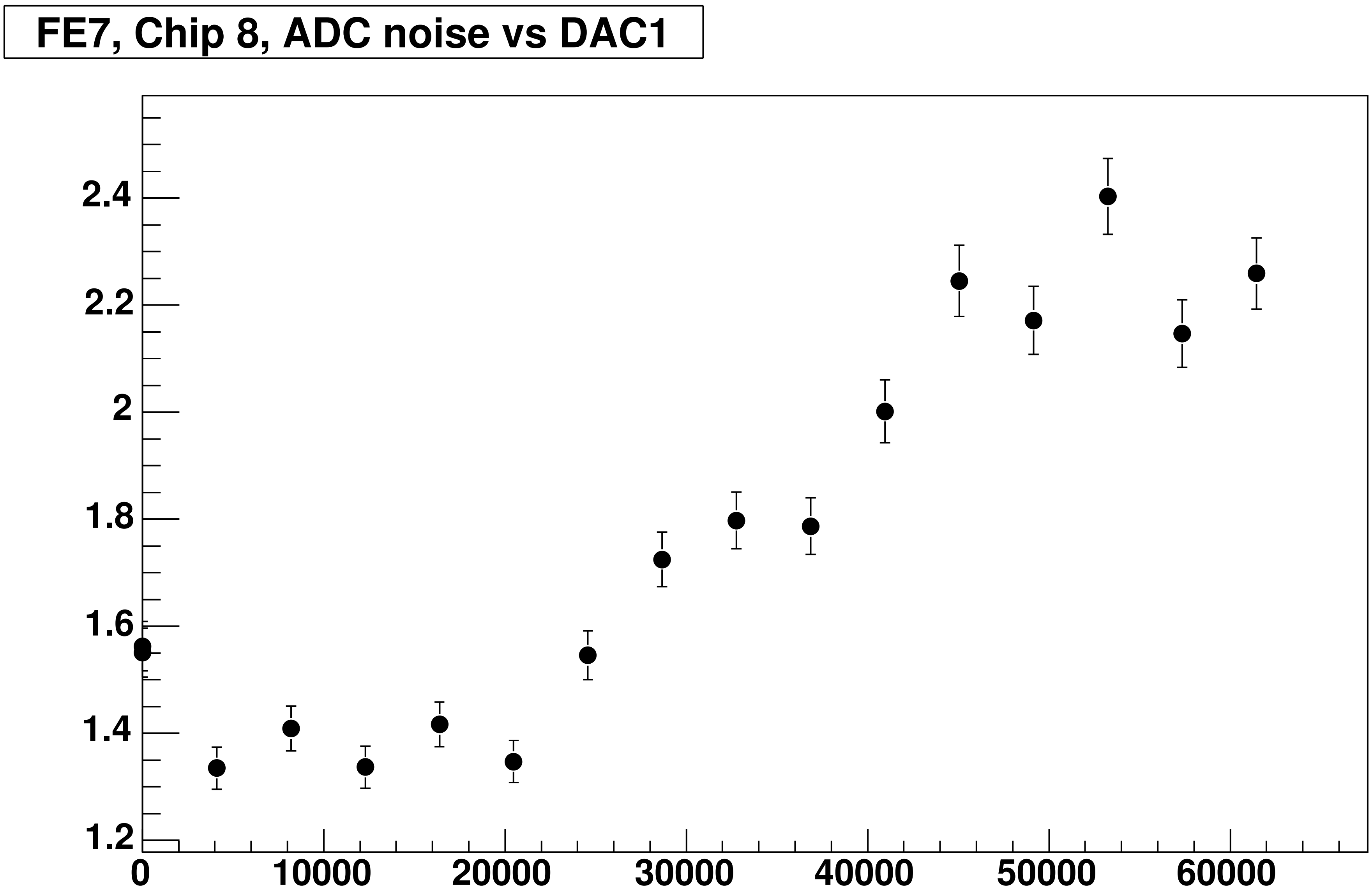

FE7, Chip 7, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

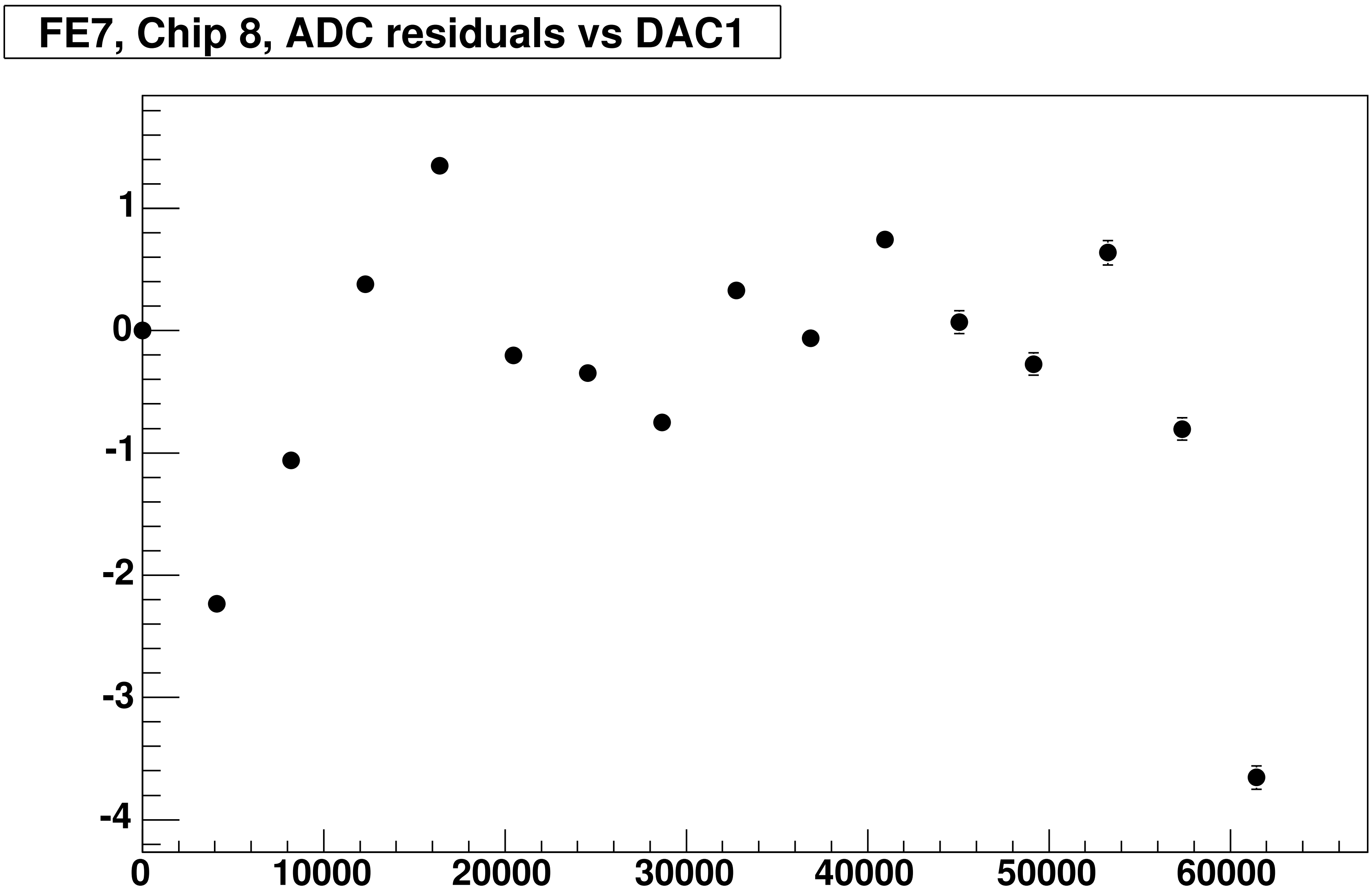

FE7, Chip 8, ADC mean vs DAC0
χ^2 / ndf 12.07 / 11
p0 -31.3 ± 0.04149
p1 -1.566e-06 ± 1.144e-06
-31.1
-31.2
-31.3
-31.4
-31.5
0
10000
20000
30000
40000
50000
60000

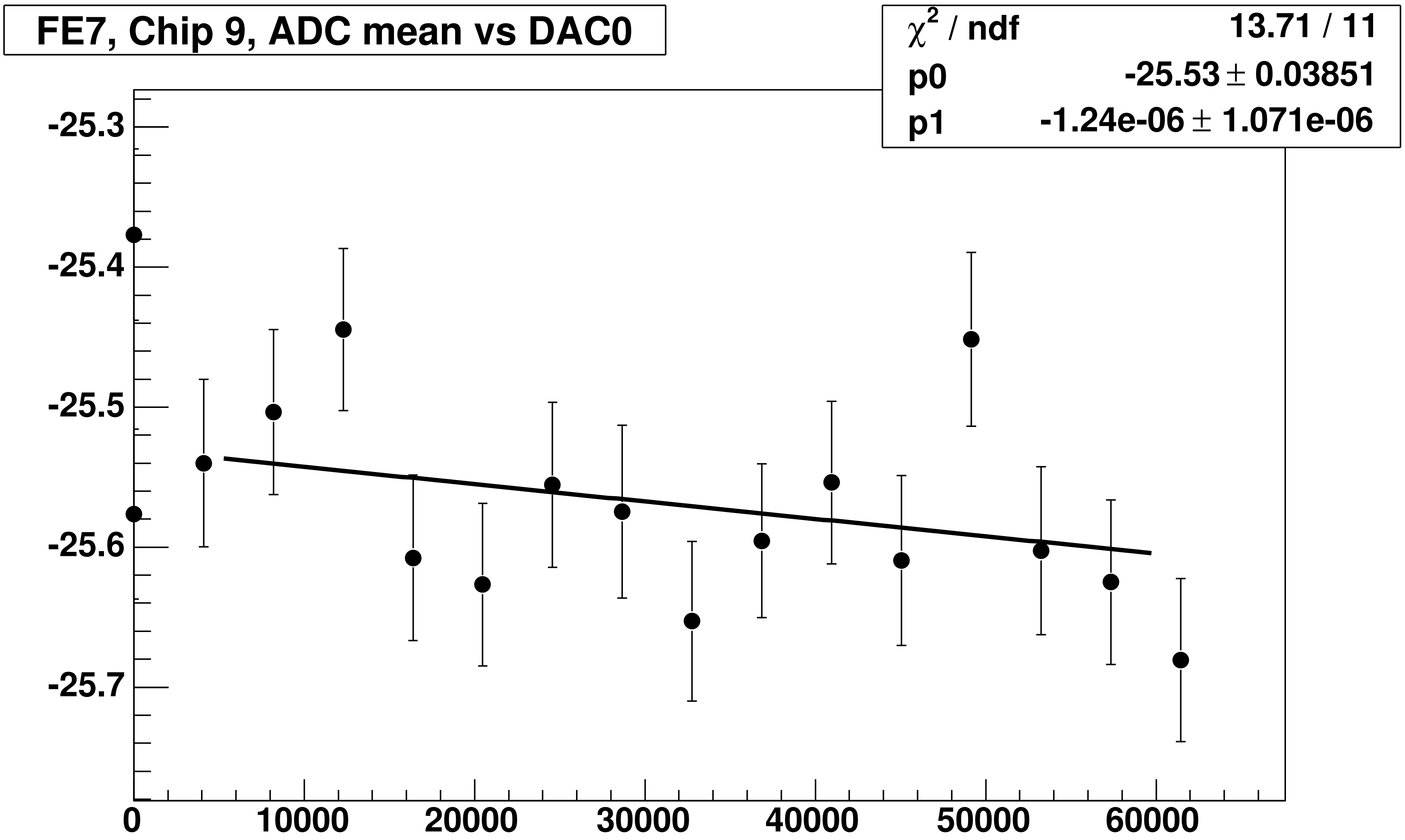

FE7, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

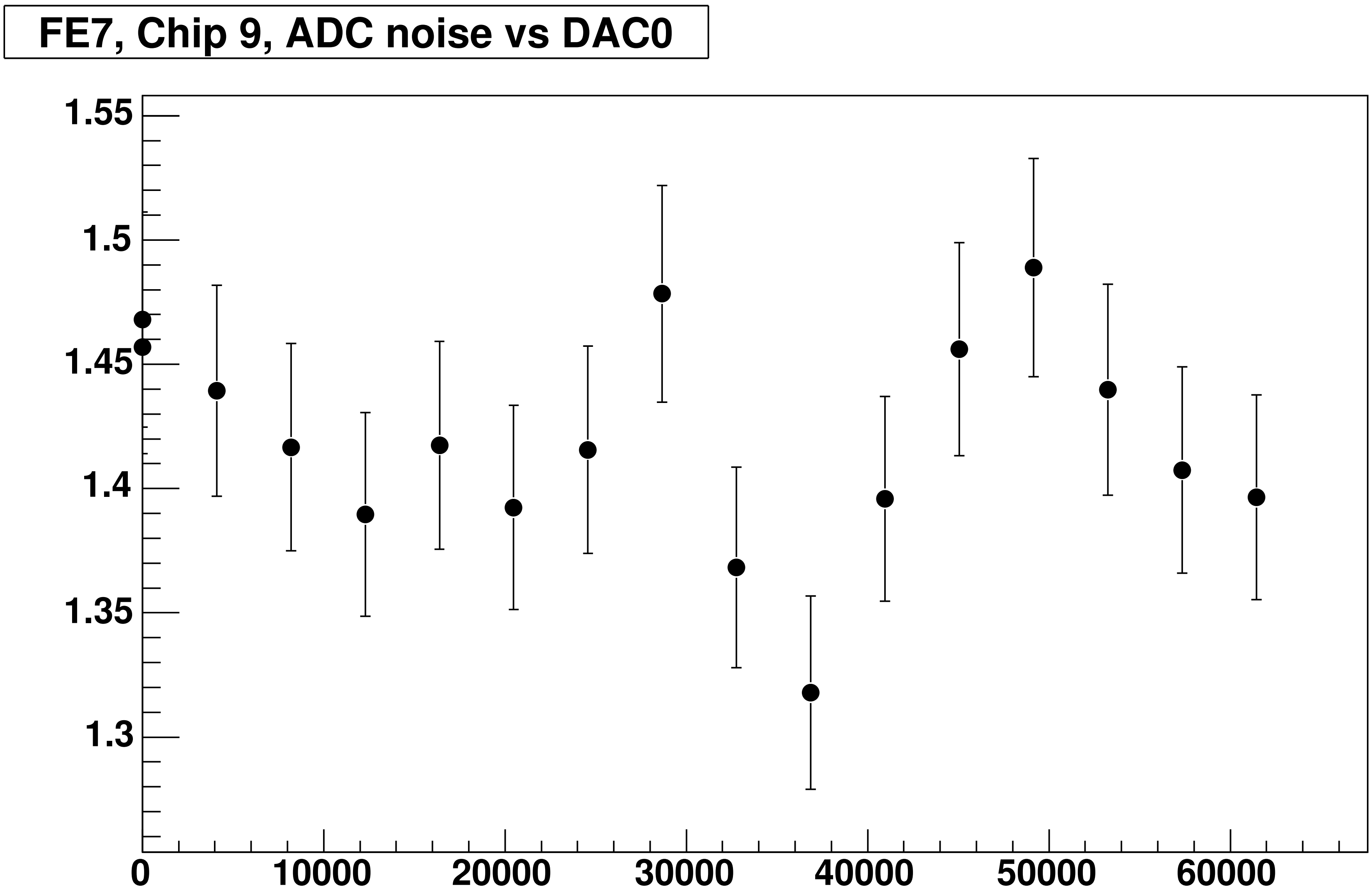

FE7, Chip 8, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

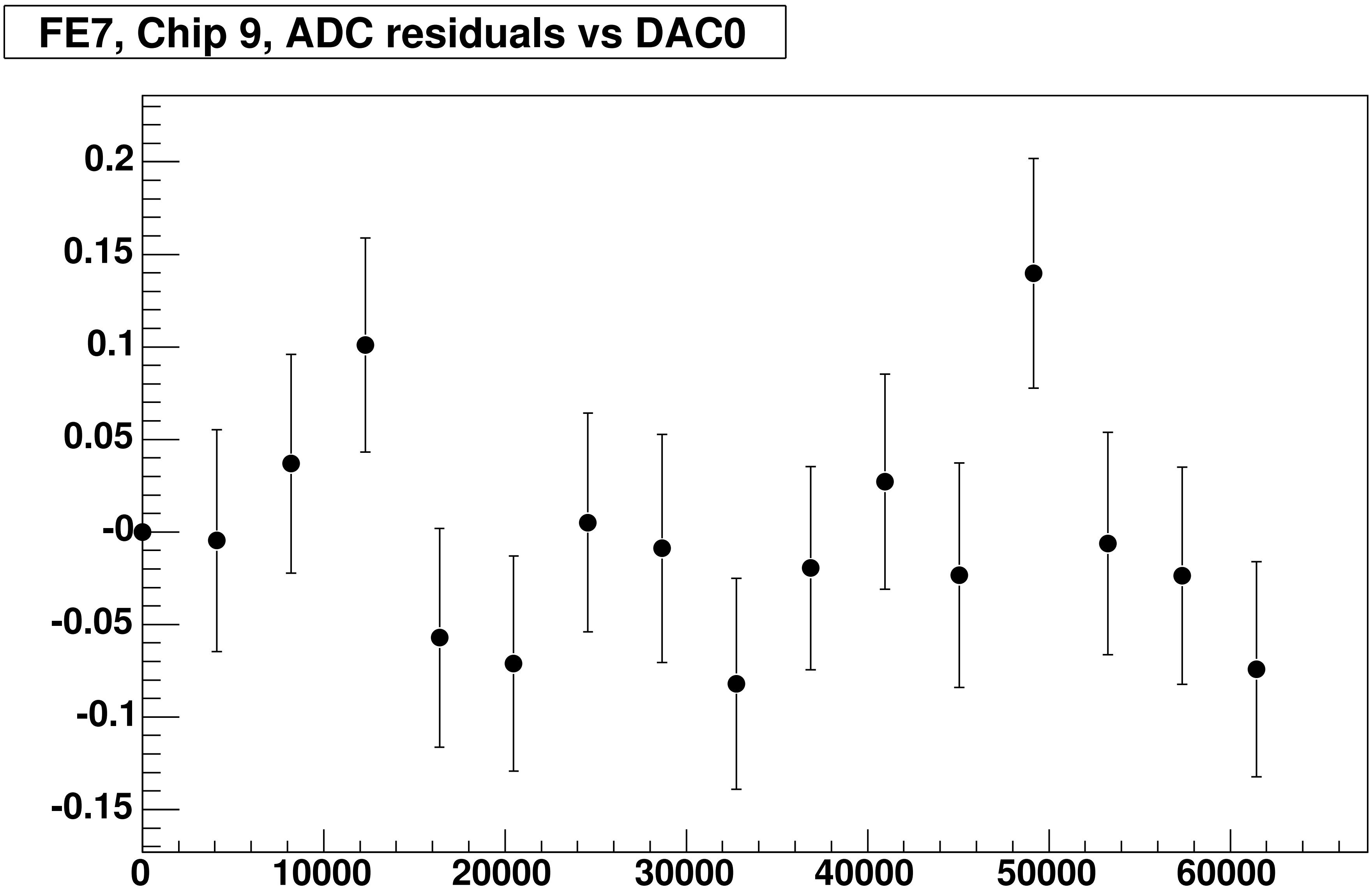

FE7, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1275 / 11
p0 -29.71 ± 0.04144
p1 0.4508 ± 1.345e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

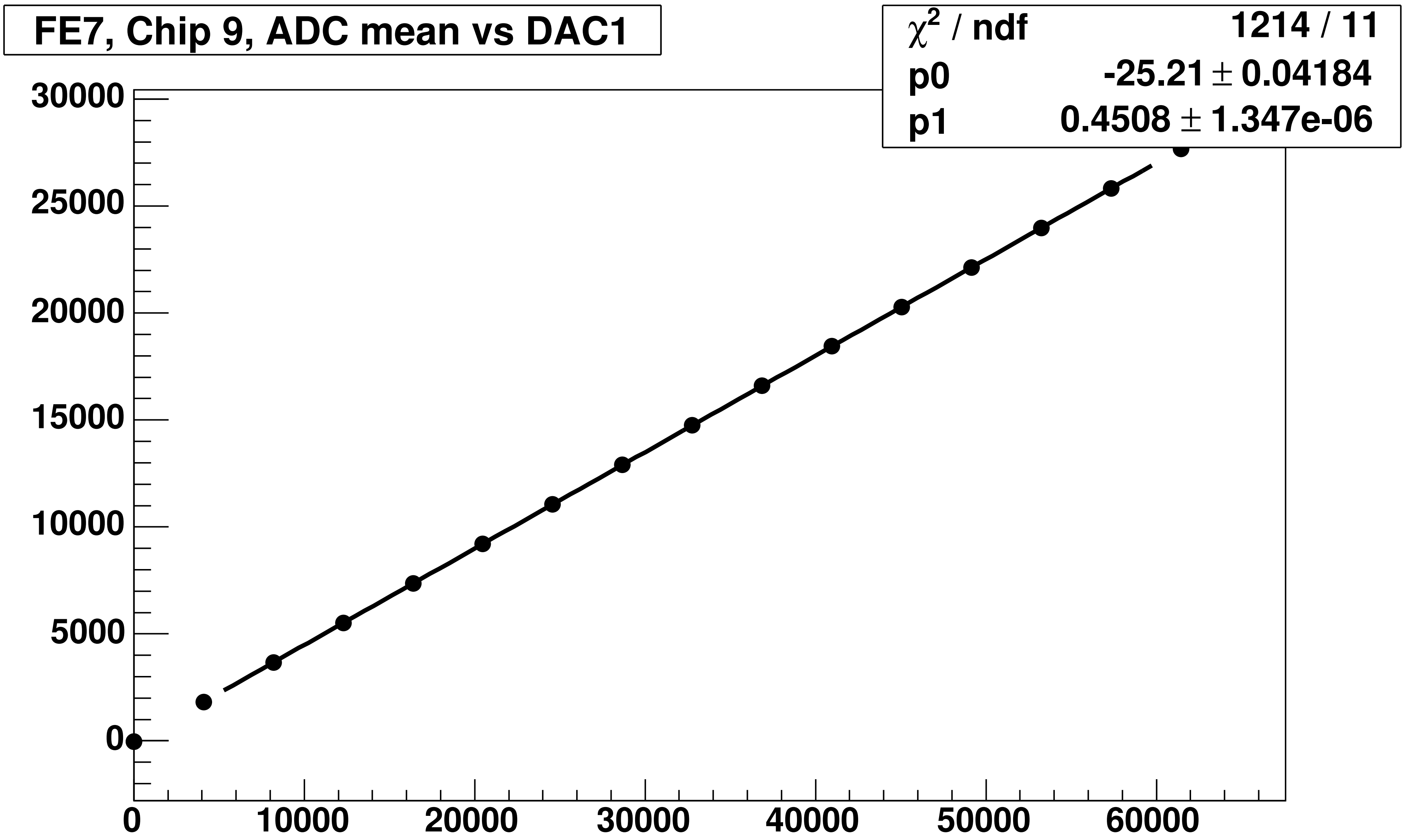

FE7, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

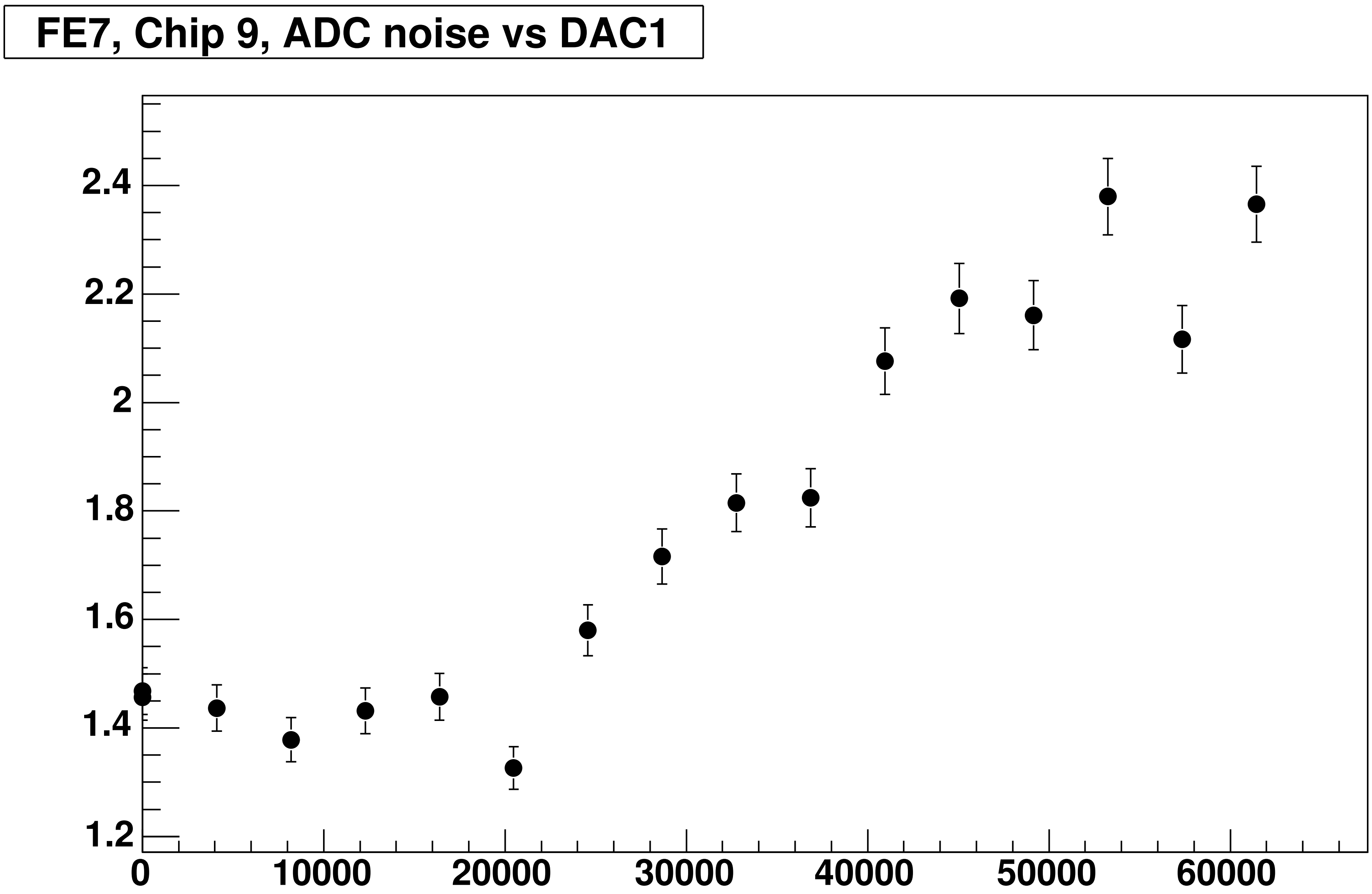

FE7, Chip 9, ADC mean vs DAC0
χ^2 / ndf 13.71 / 11
p0 -25.53 ± 0.03851
p1 -1.24e-06 ± 1.071e-06
-25.3
-25.4
-25.5
-25.6
-25.7
0
10000
20000
30000
40000
50000
60000

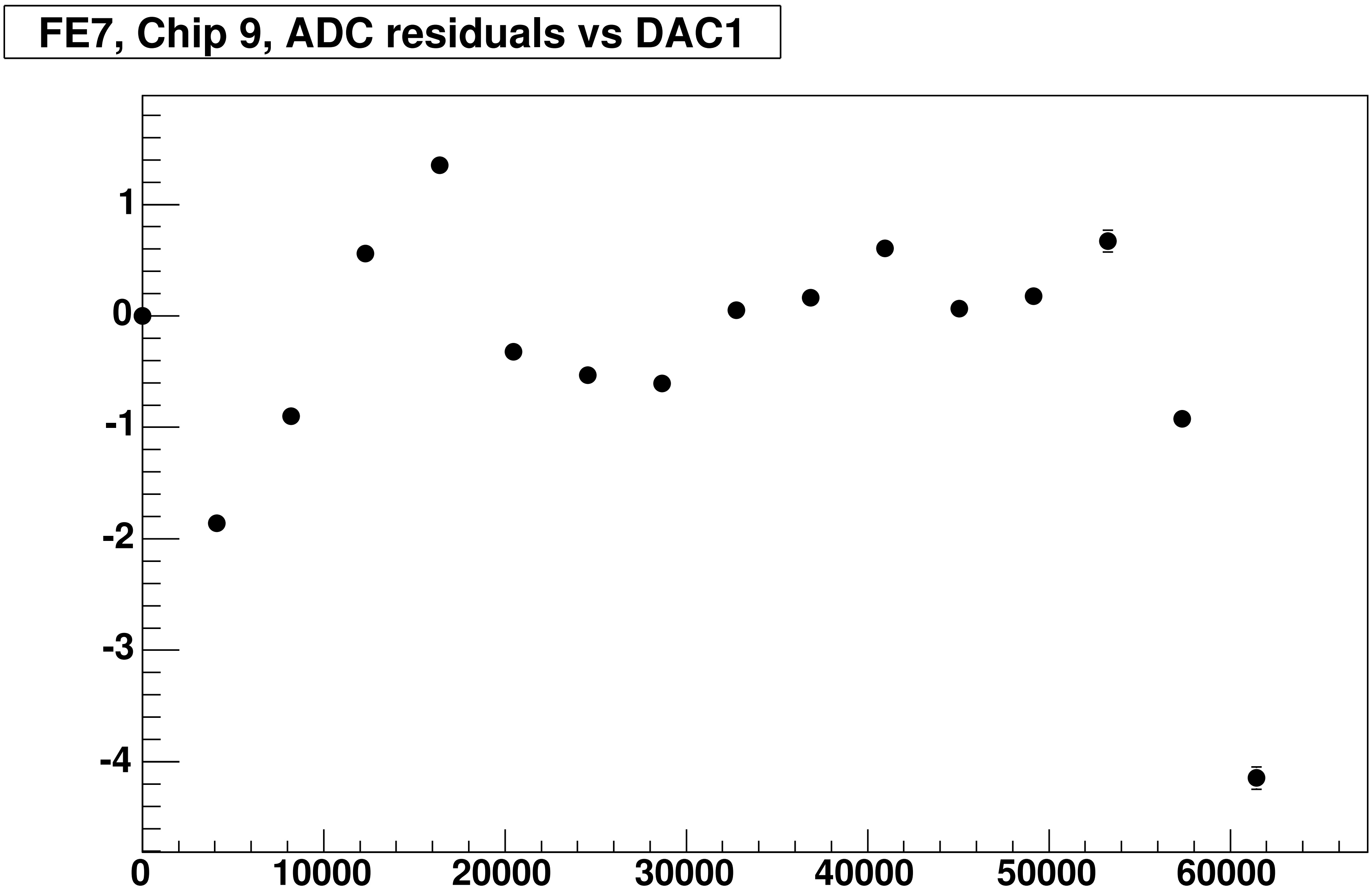

FE7, Chip 9, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

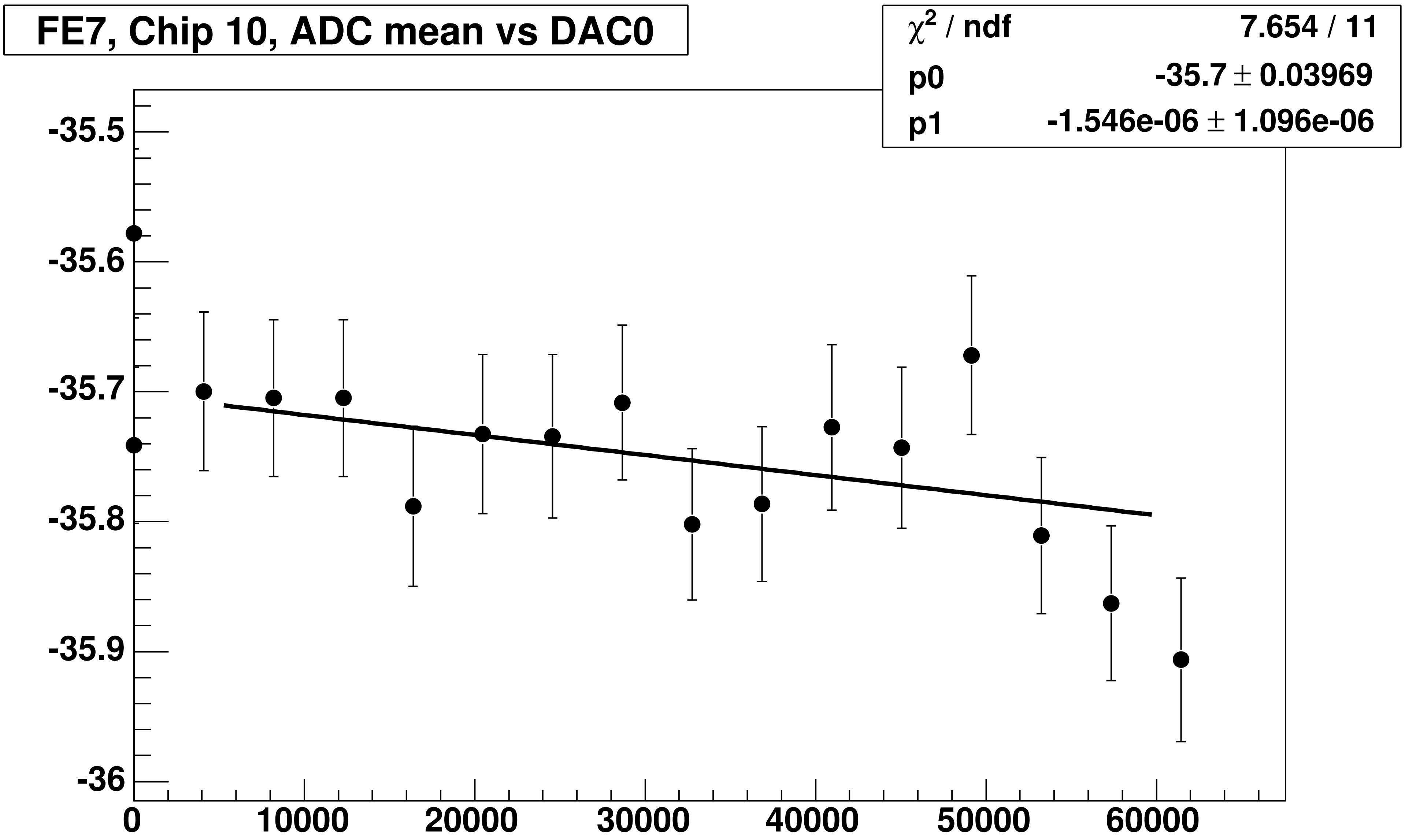

FE7, Chip 9, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

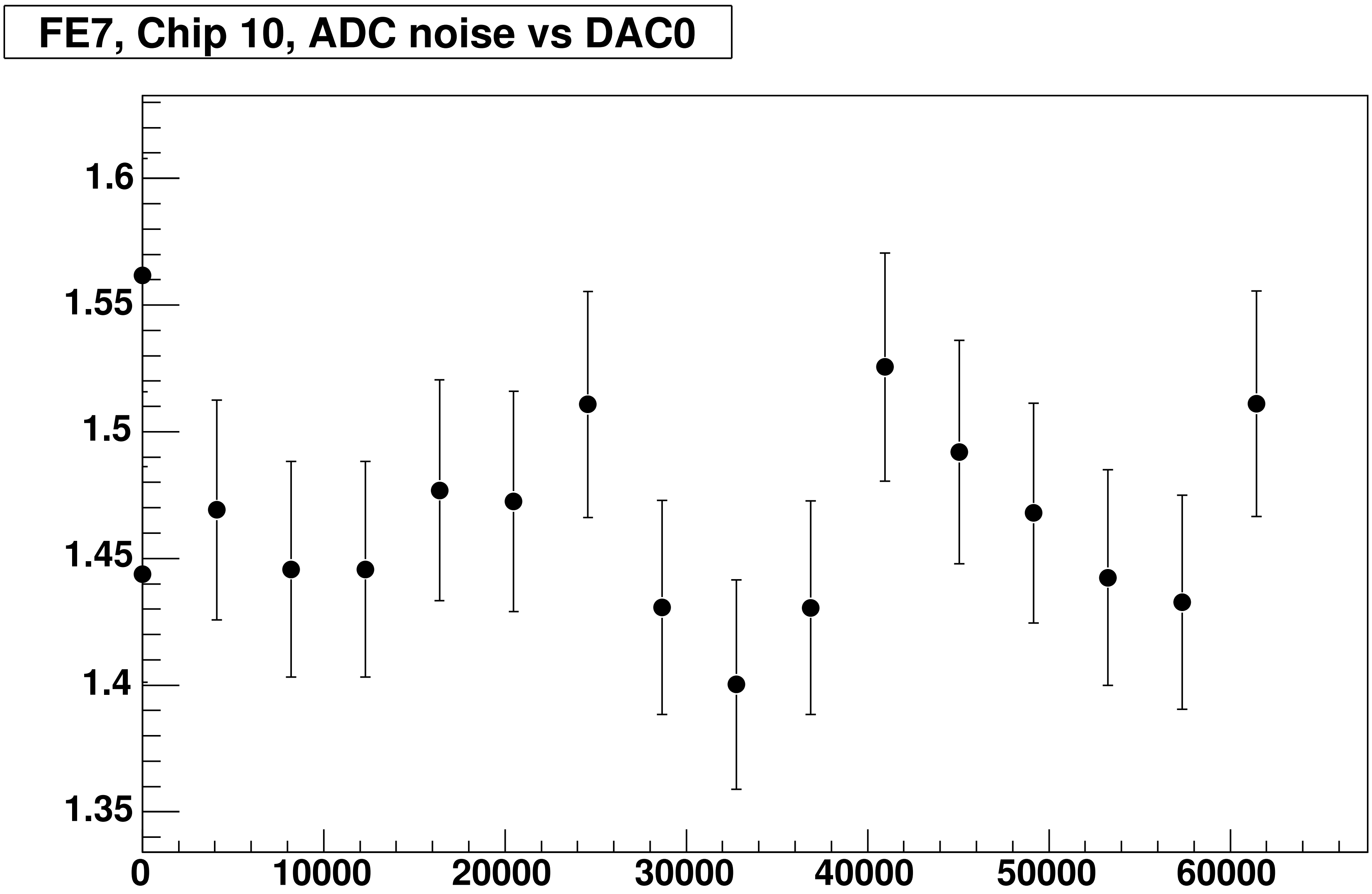


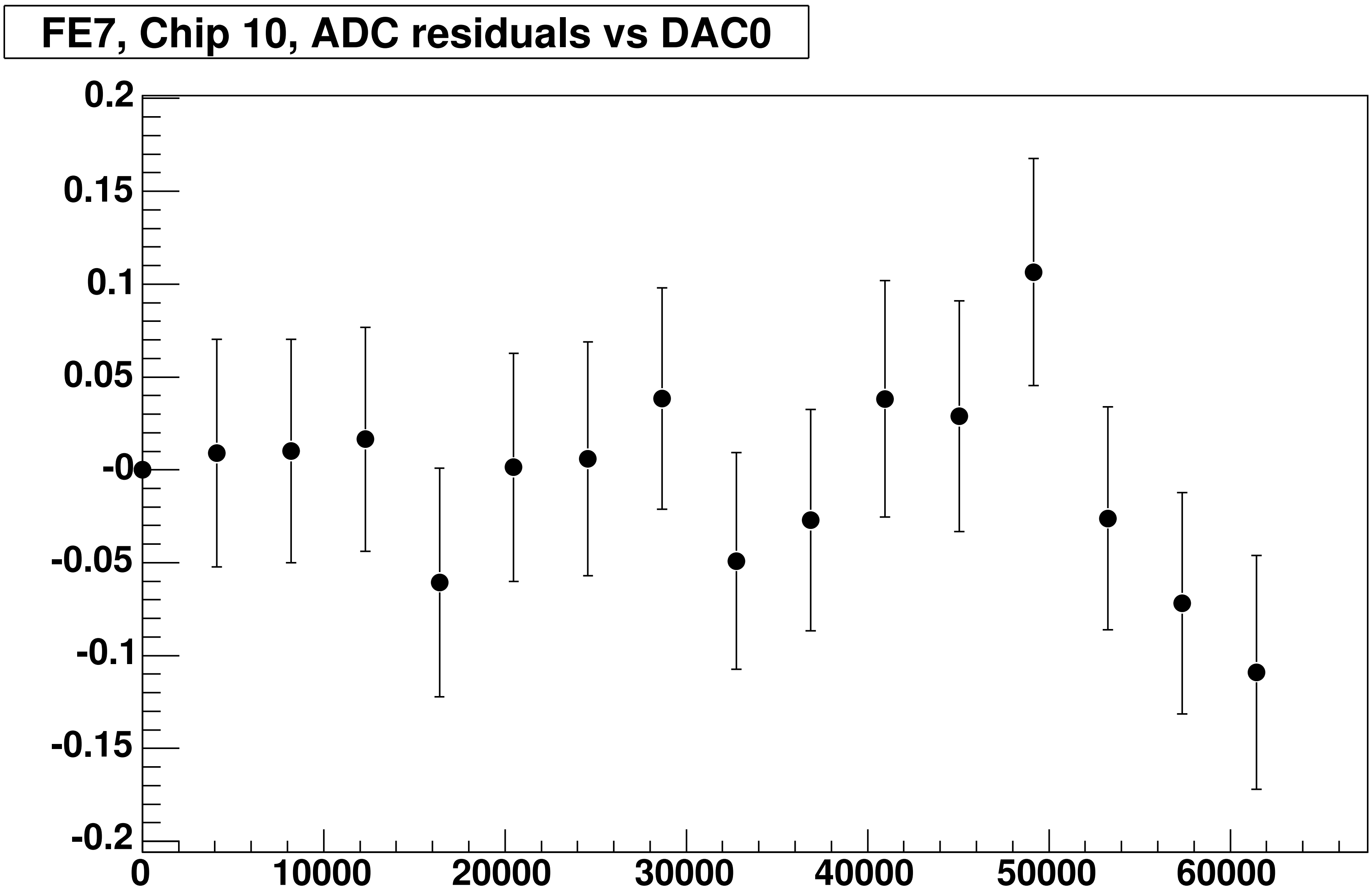
FE7, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1214 / 11
p0 -25.21 ± 0.04184
p1 0.4508 ± 1.347e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

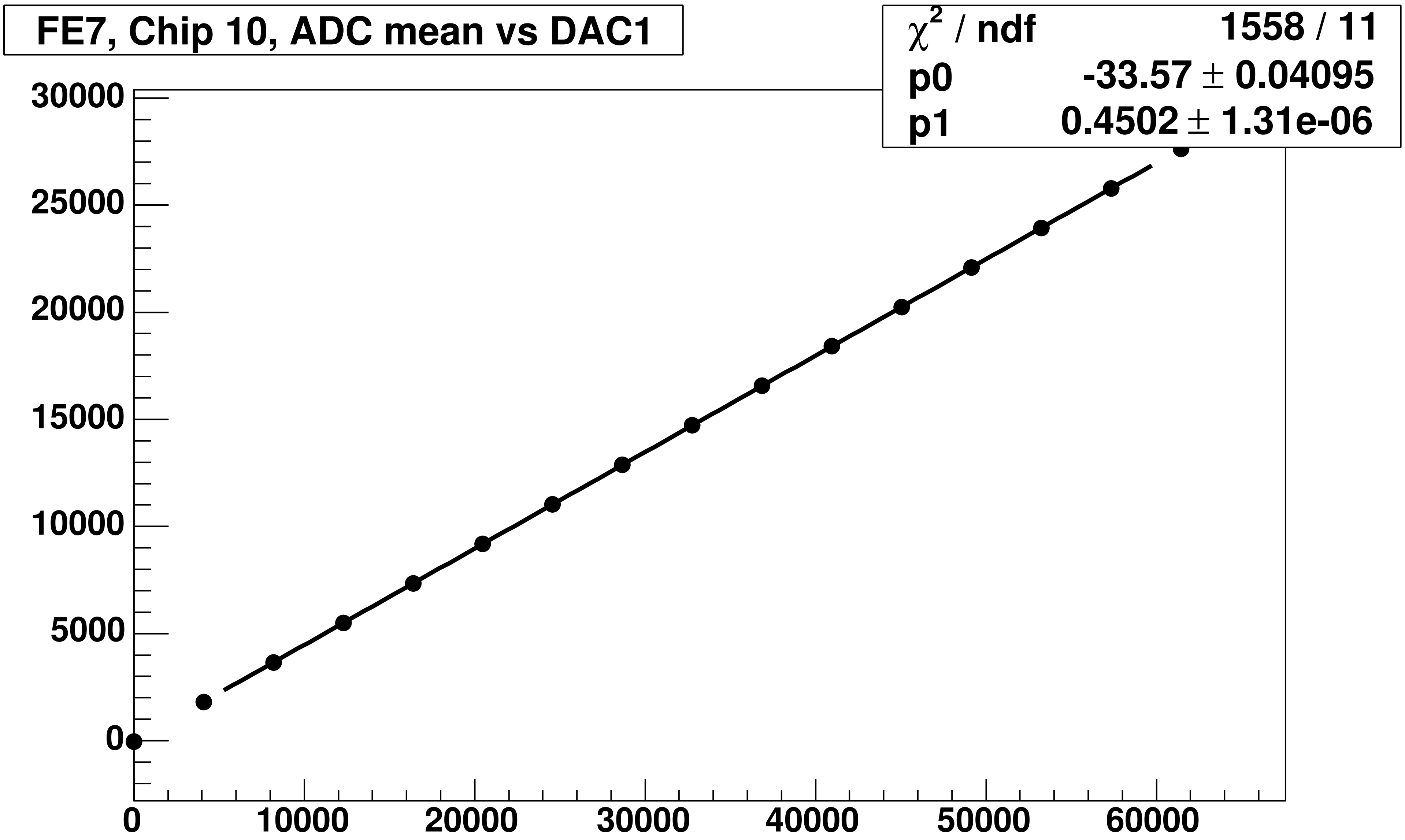

FE7, Chip 9, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

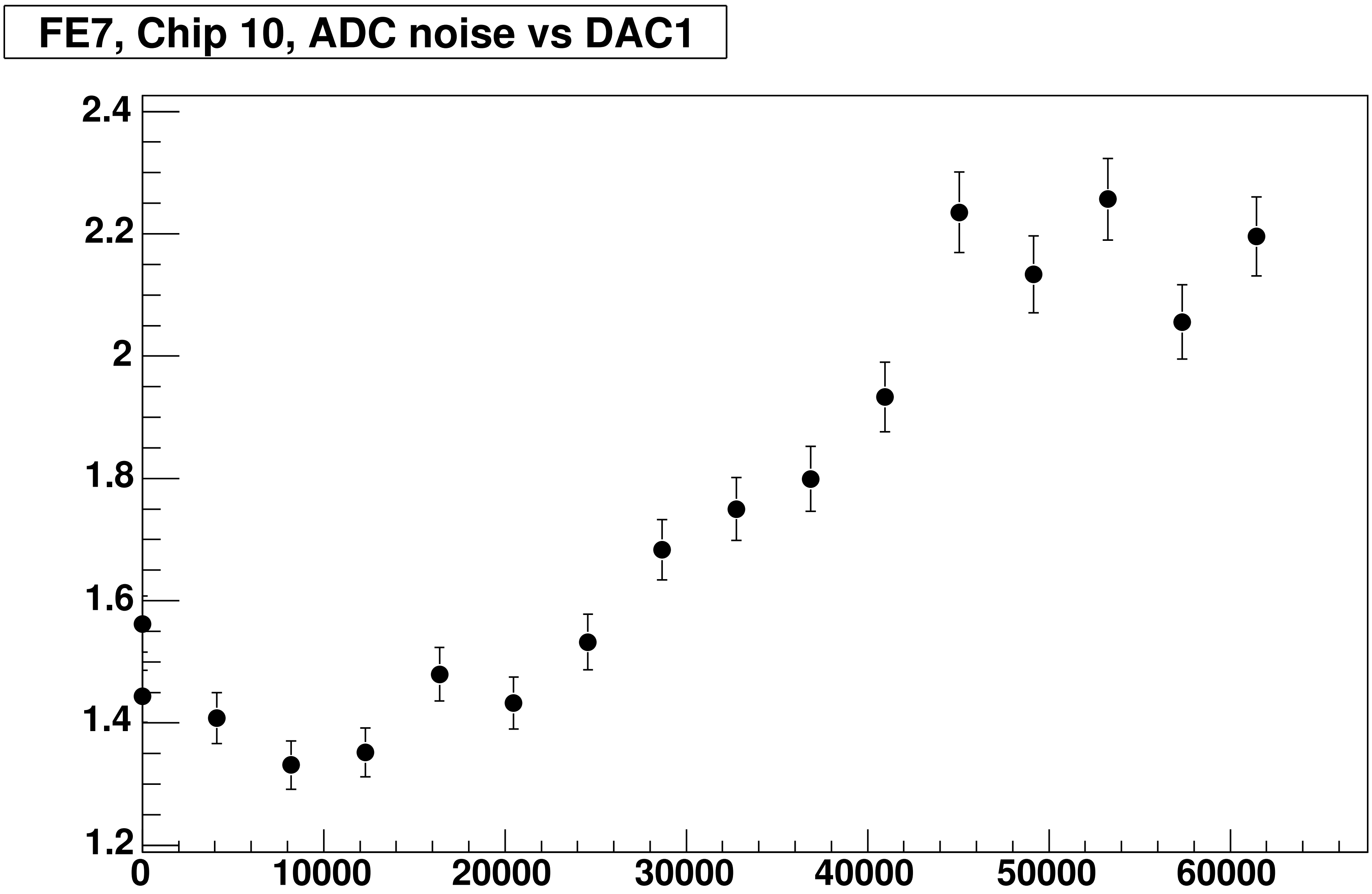

FE7, Chip 10, ADC mean vs DAC0
χ^2 / ndf 7.654 / 11
p0 -35.7 ± 0.03969
p1 -1.546e-06 ± 1.096e-06
-35.5
-35.6
-35.7
-35.8
-35.9
-36
0
10000
20000
30000
40000
50000
60000

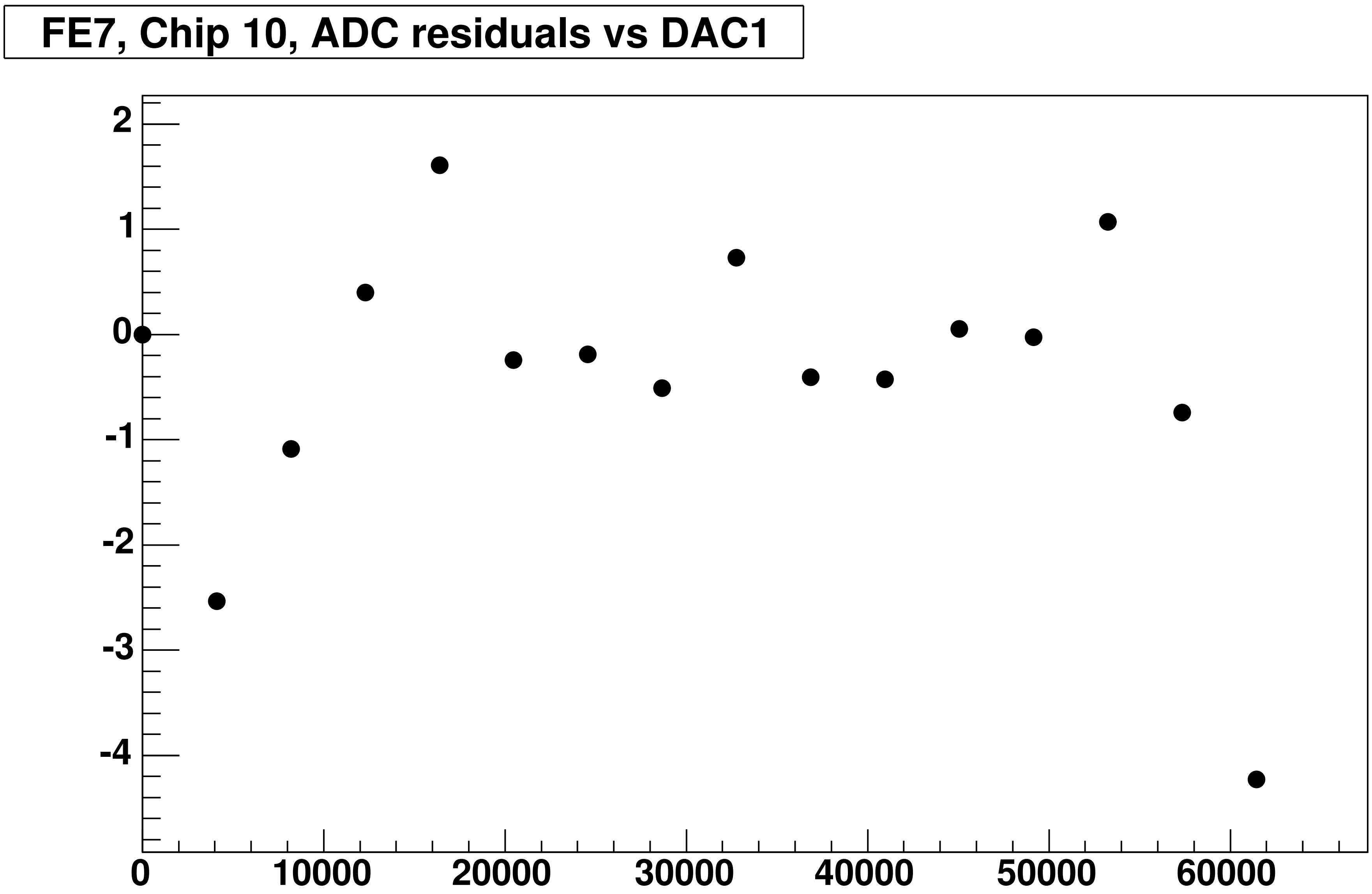

FE7, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE7, Chip 10, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

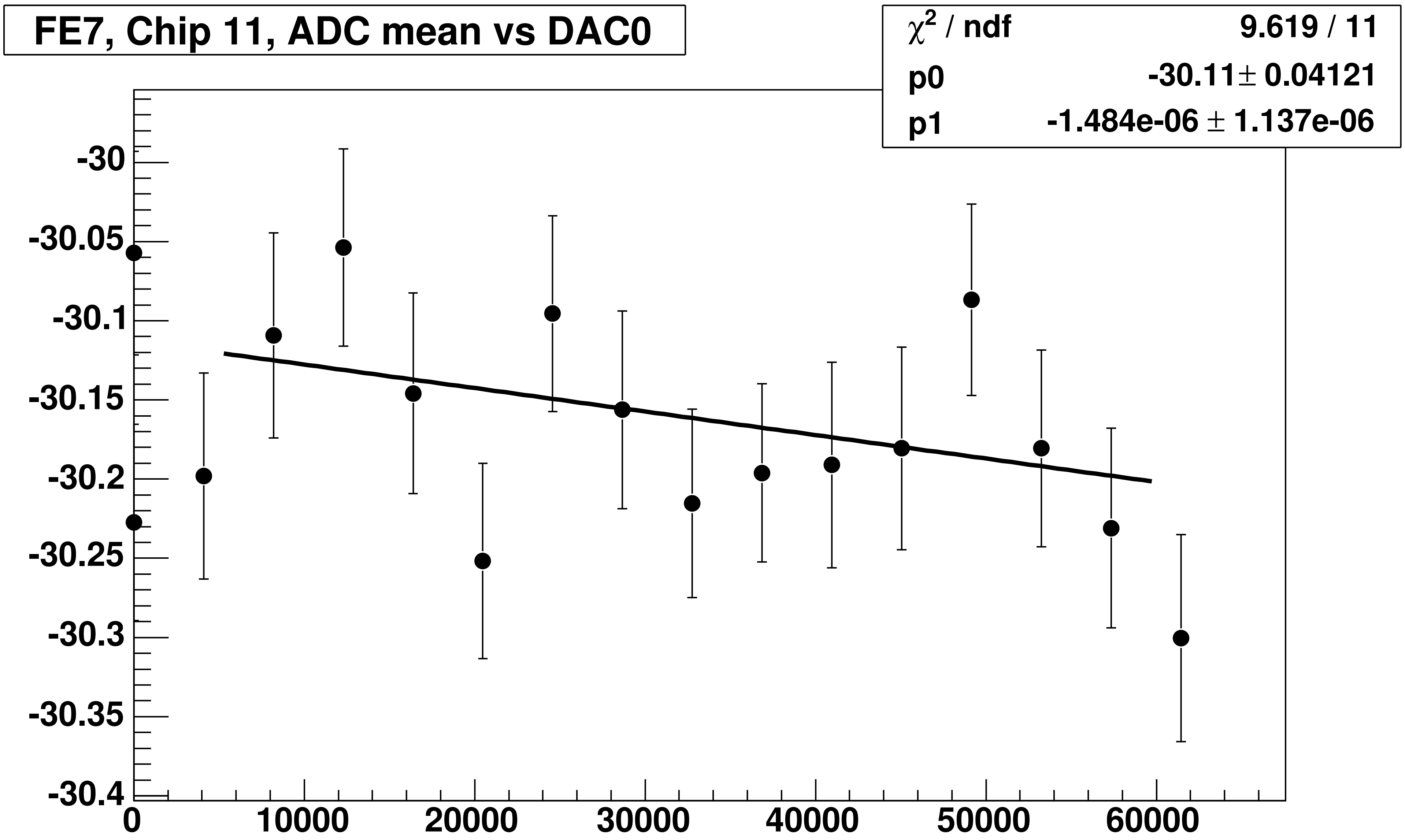


FE7, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1558 / 11
p0 -33.57 ± 0.04095
p1 0.4502 ± 1.31e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

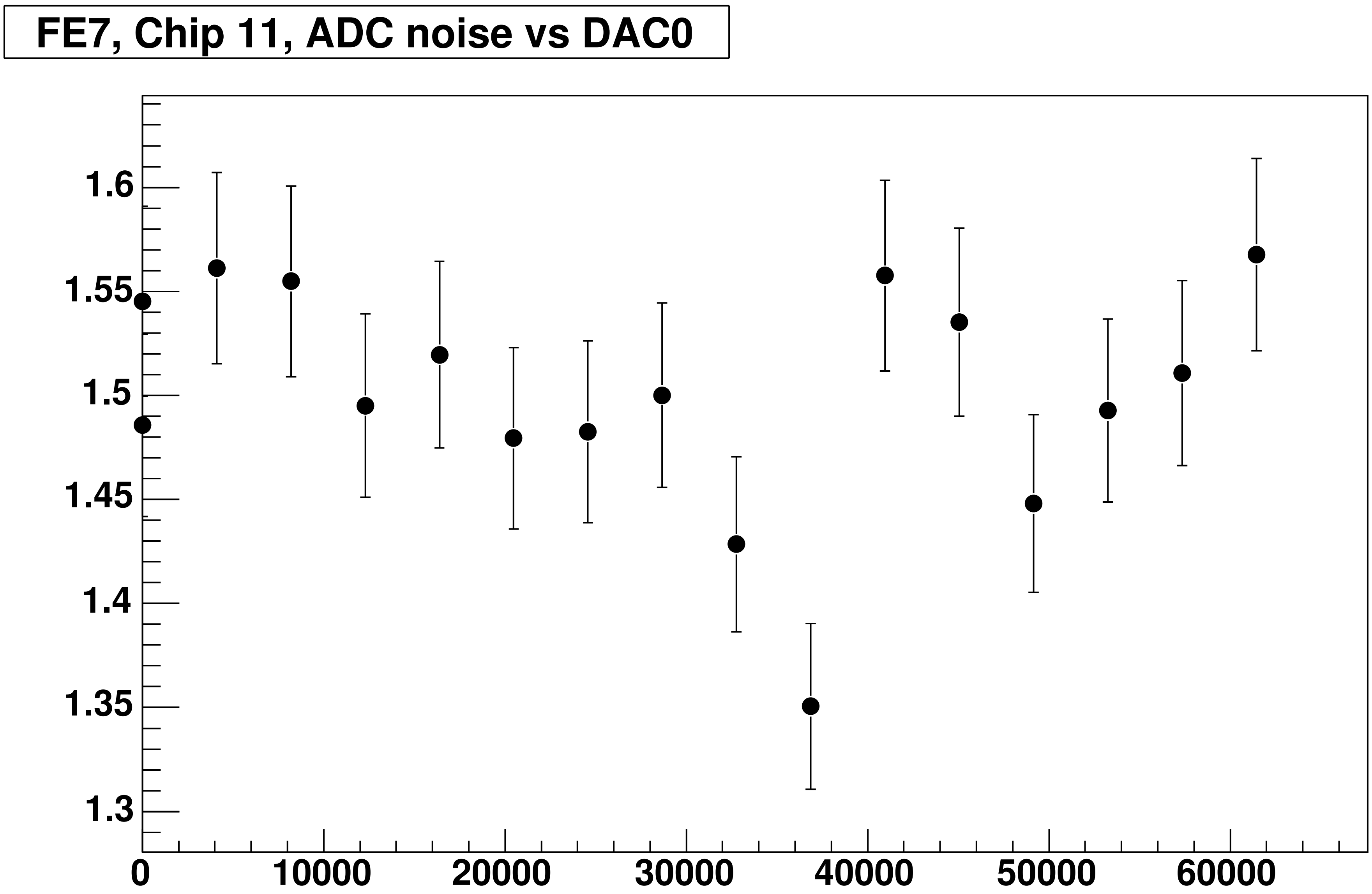

FE7, Chip 10, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

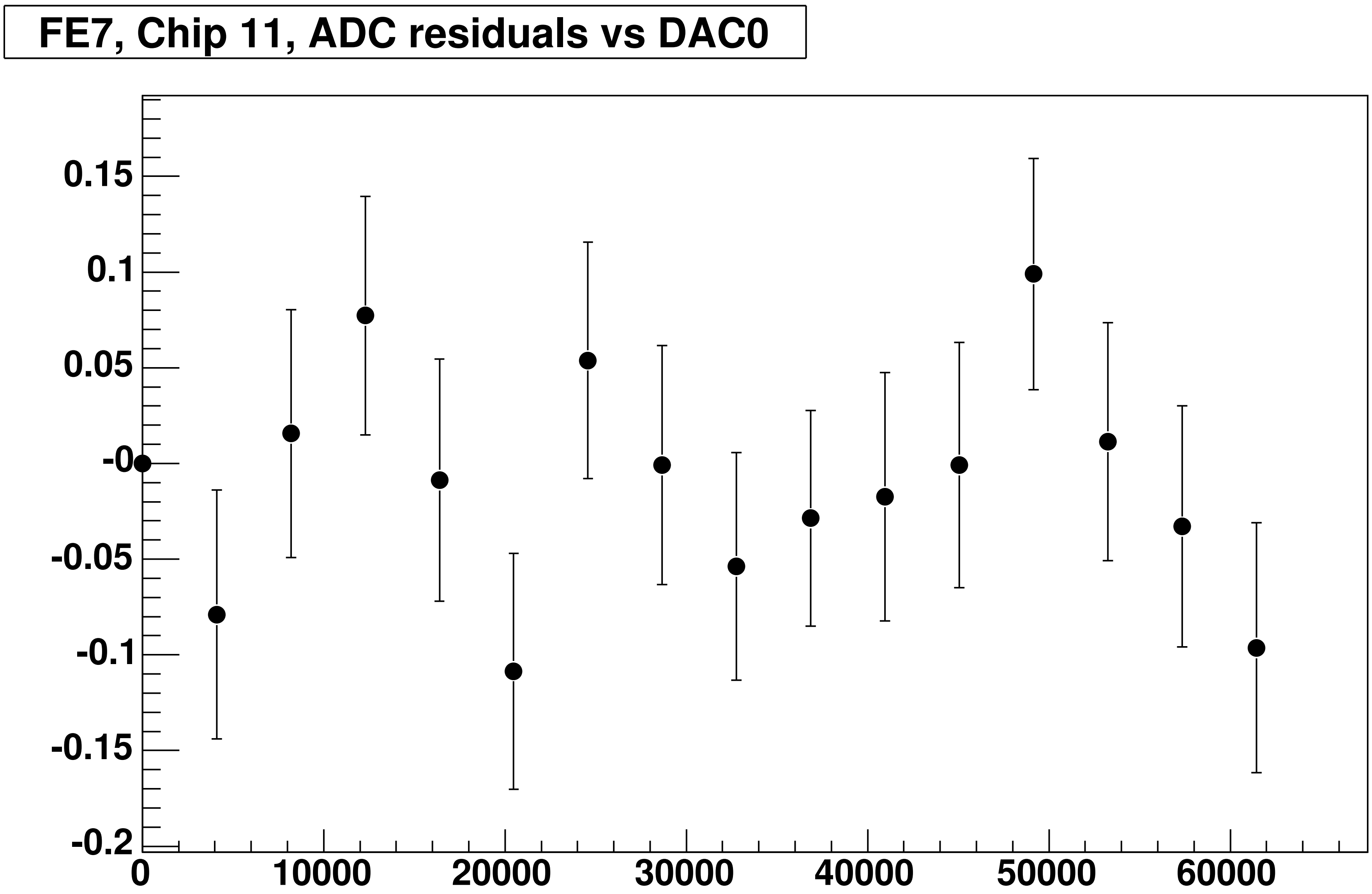


FE7, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

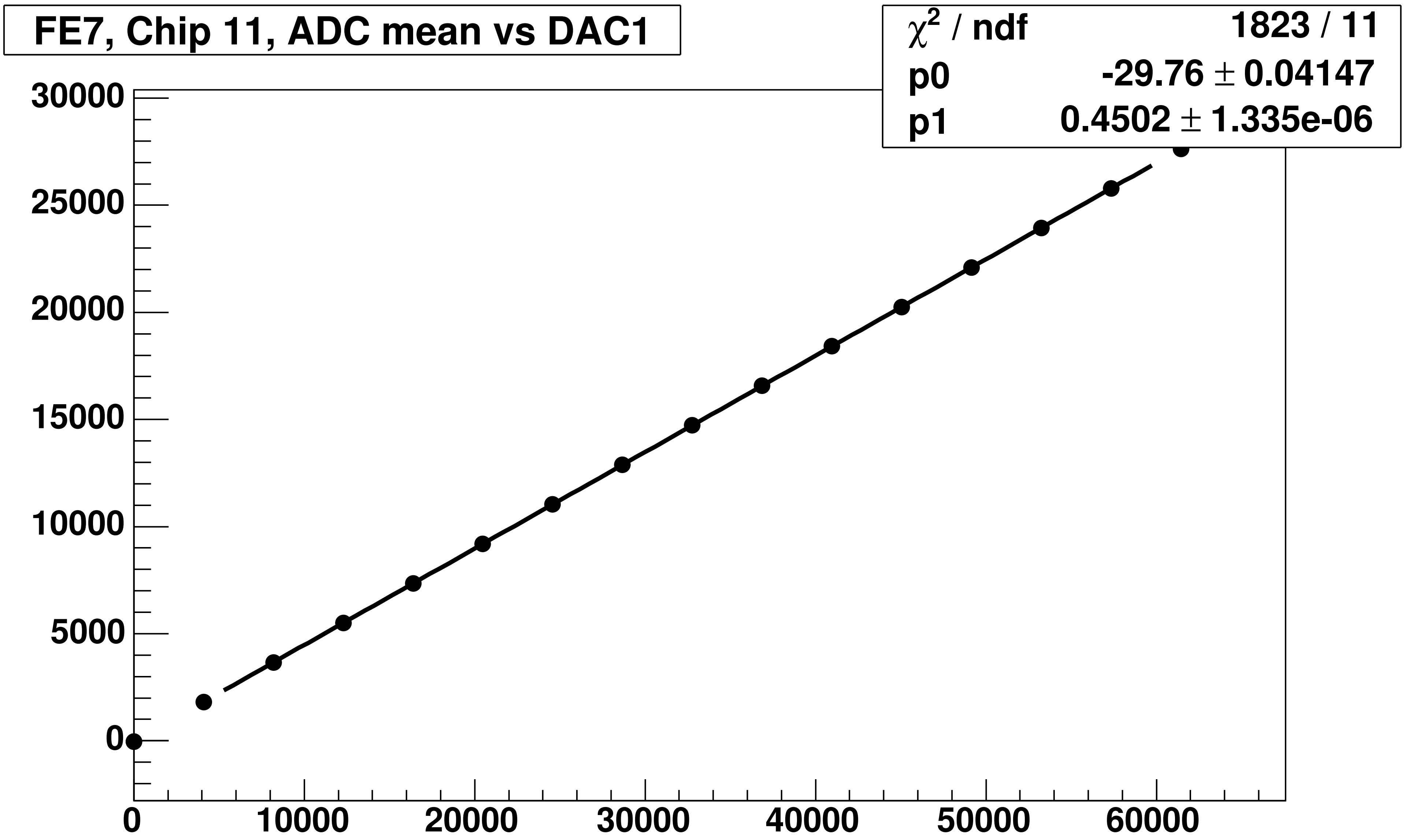


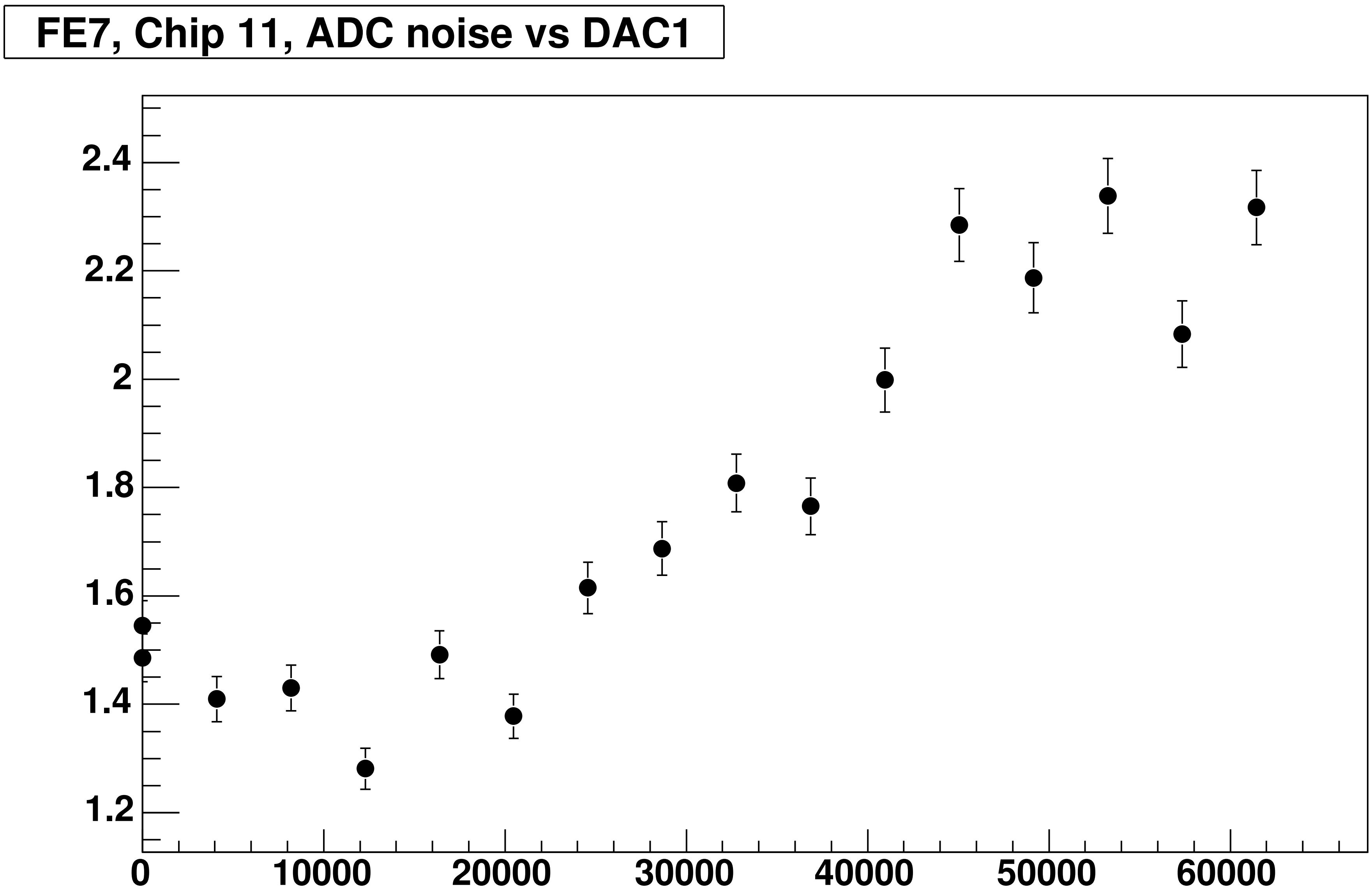
FE7, Chip 11, ADC mean vs DAC0
χ^2 / ndf 9.619 / 11
p0 -30.11± 0.04121
p1 -1.484e-06 ± 1.137e-06
-30
-30.05
-30.1
-30.15
-30.2
-30.25
-30.3
-30.35
-30.4
0
10000
20000
30000
40000
50000
60000

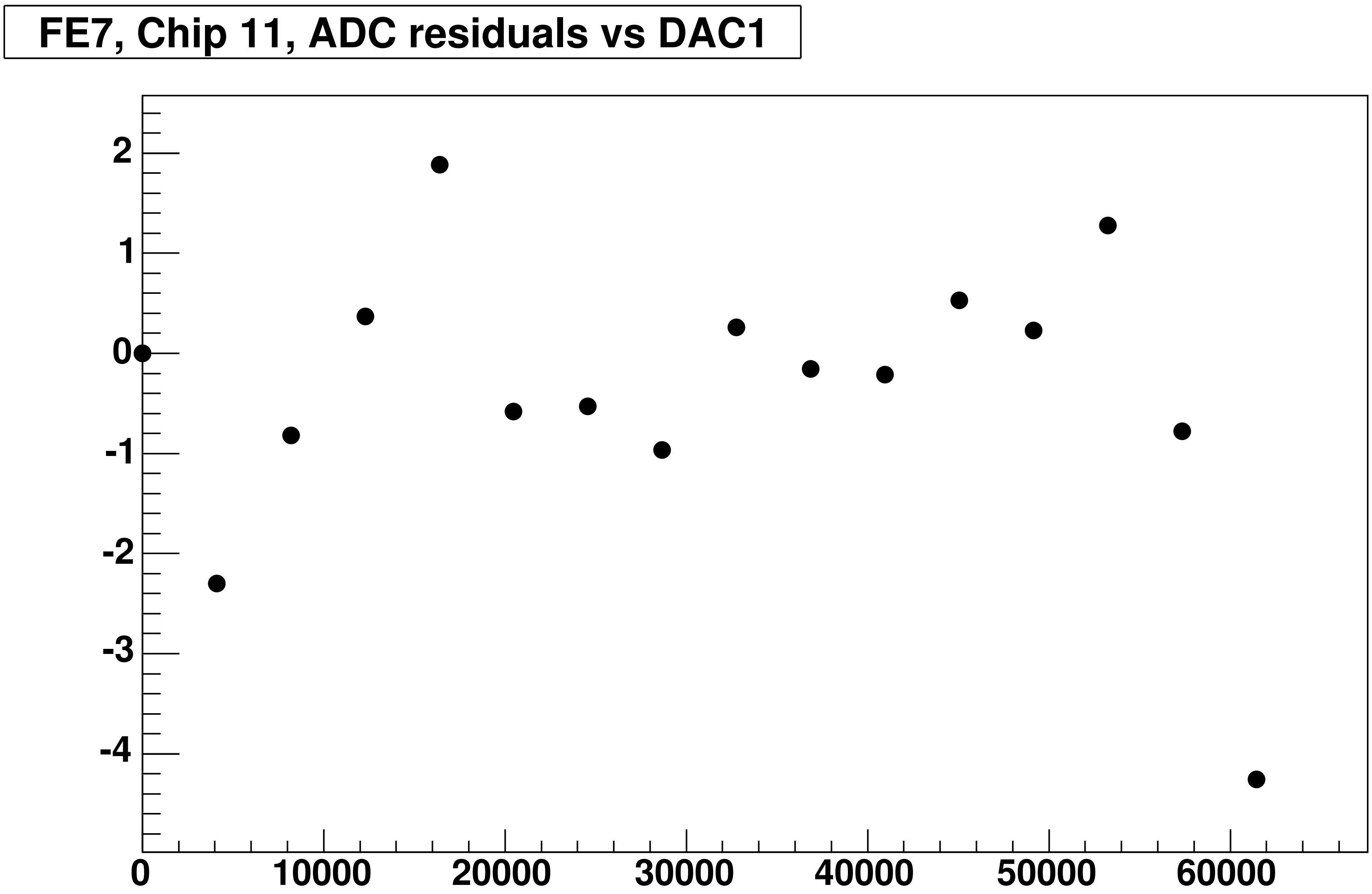

FE7, Chip 11, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

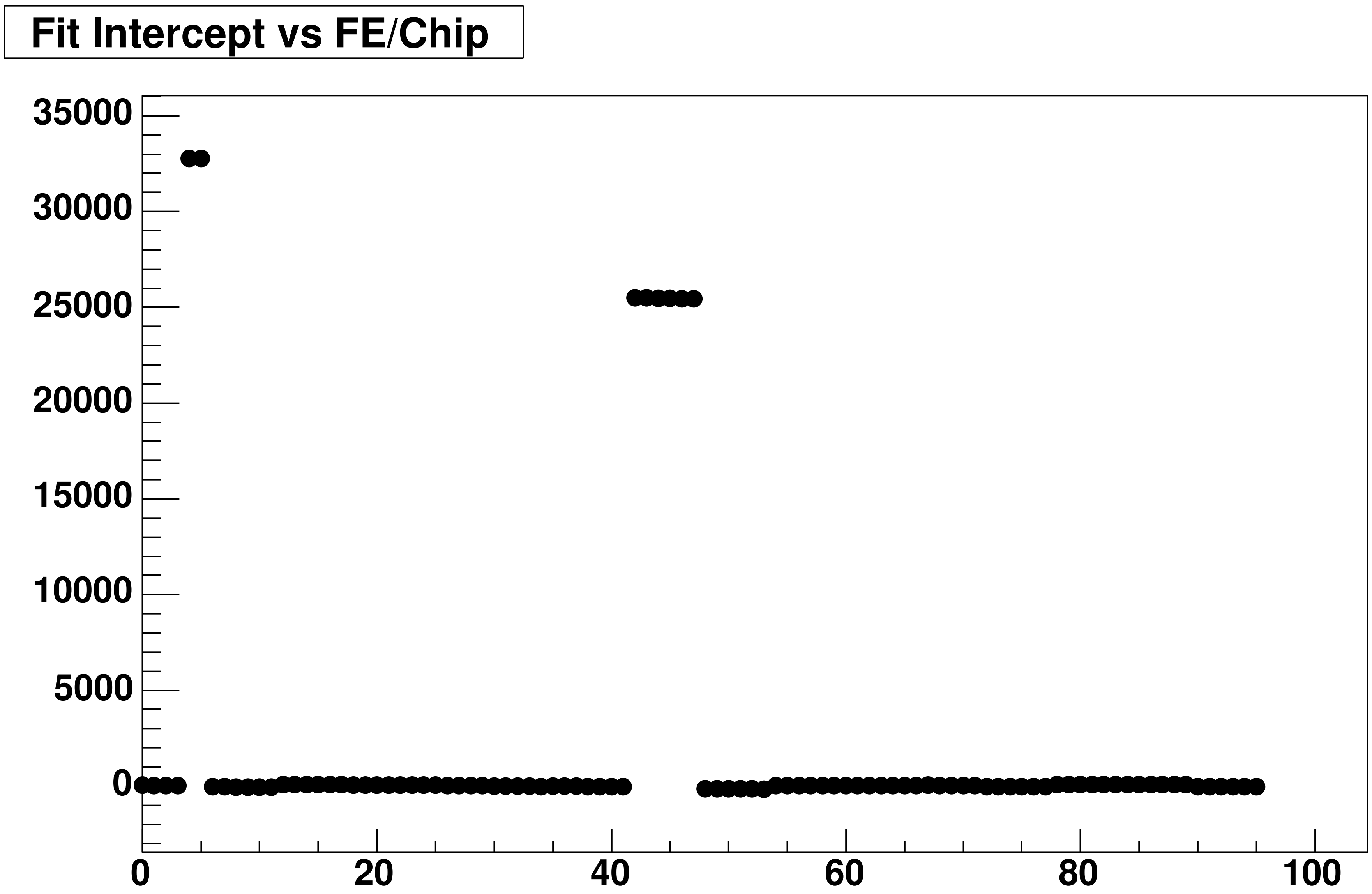


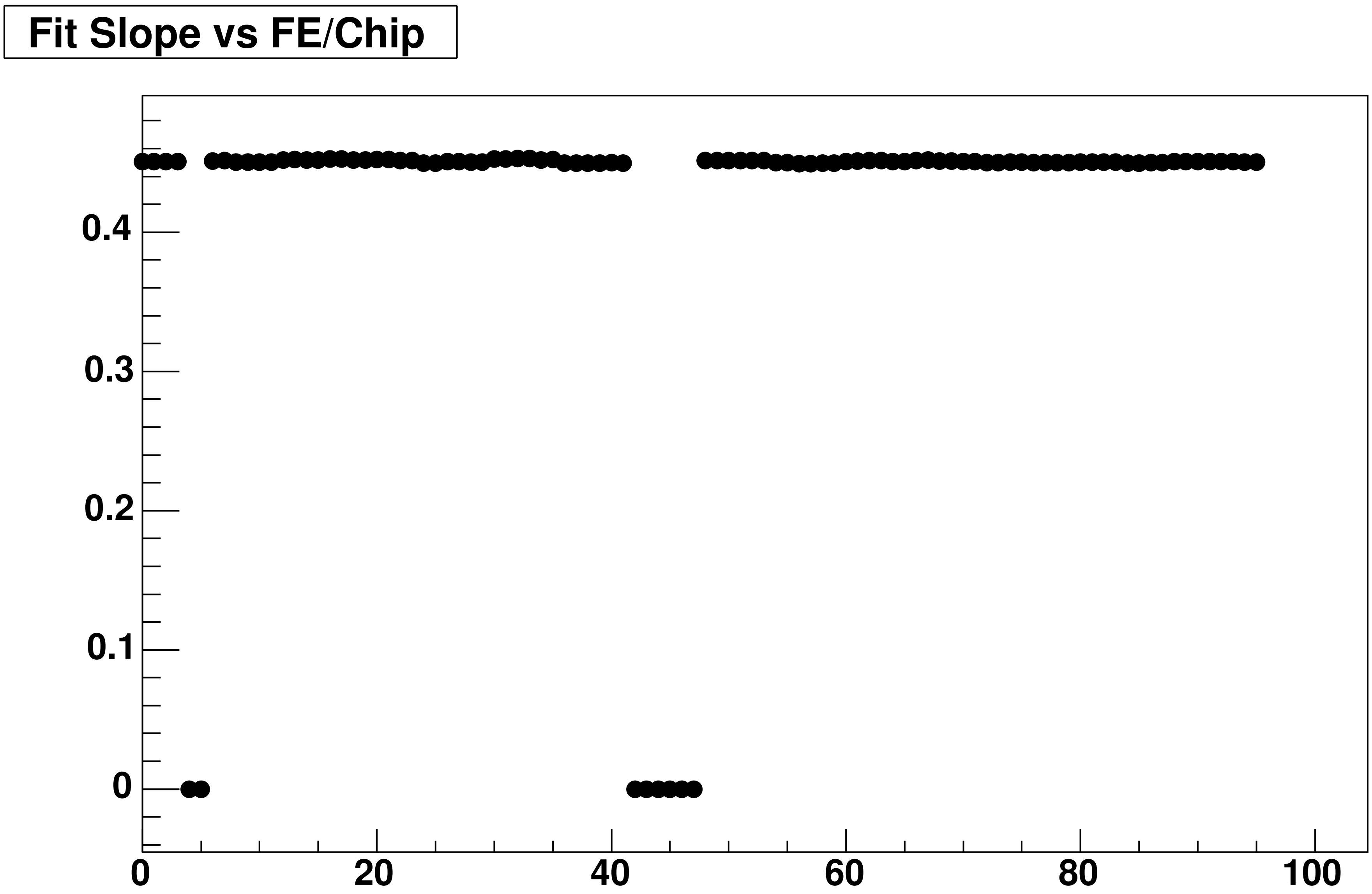
FE7, Chip 11, ADC residuals vs DAC0
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1823 / 11
p0 -29.76 ± 0.04147
p1 0.4502 ± 1.335e-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
0
10000
20000
30000
40000
50000
60000


Fit Intercept vs FE/Chip
35000
30000
25000
20000
15000
10000
5000
0
0
20
40
60
80
100


Fit Slope vs FE/Chip
0.4
0.3
0.2
0.1
0
0
20
40
60
80
100