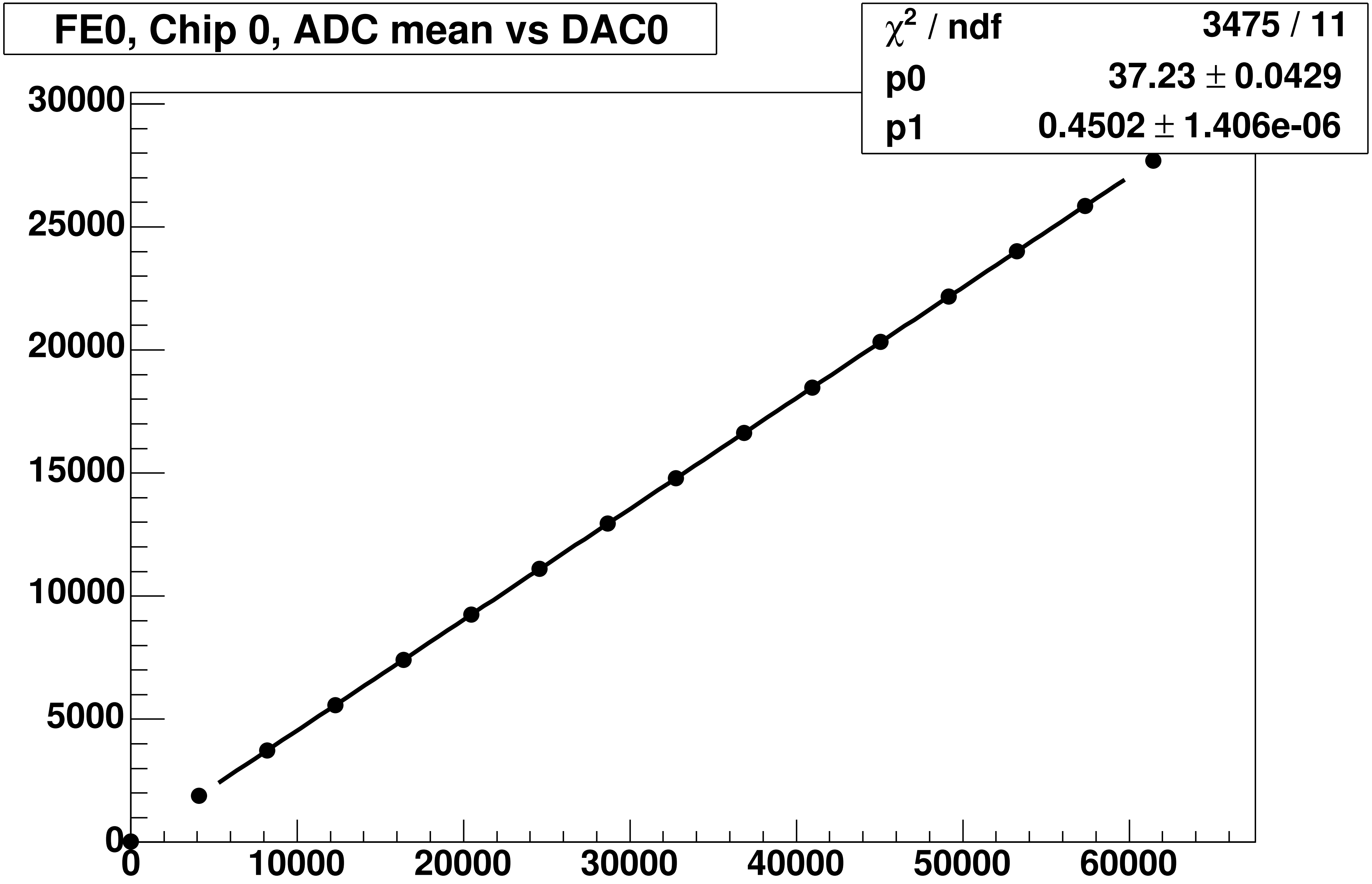
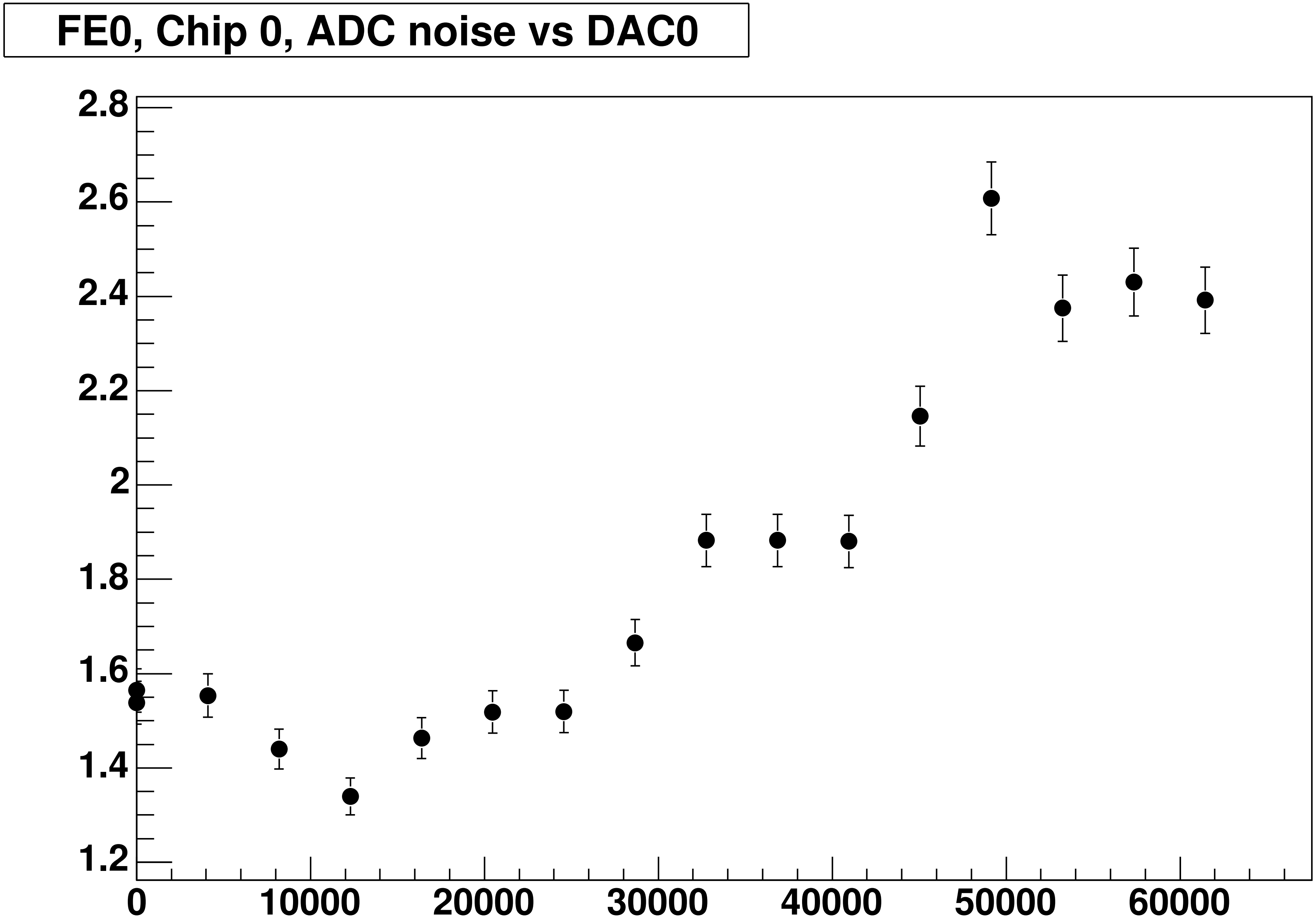
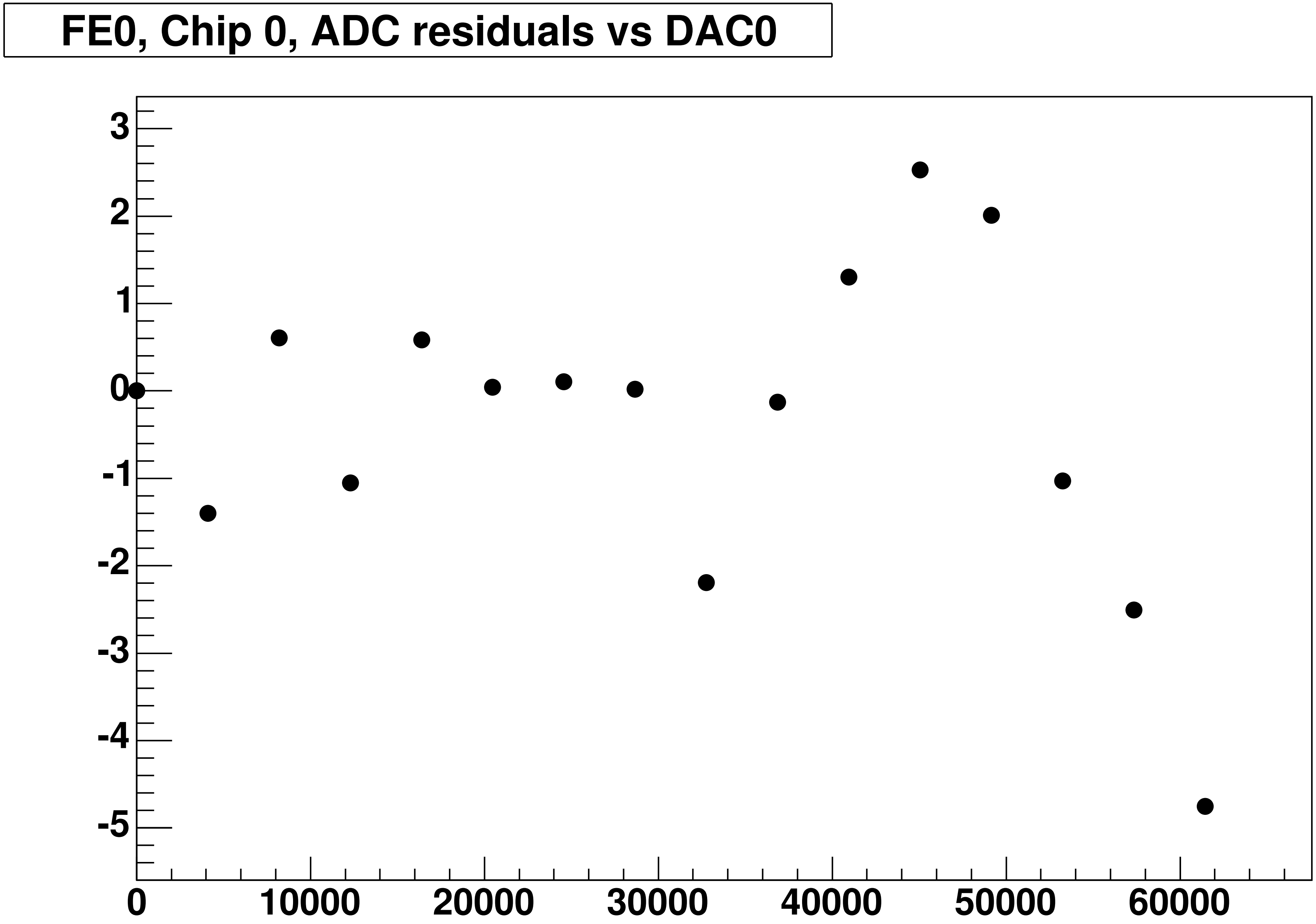
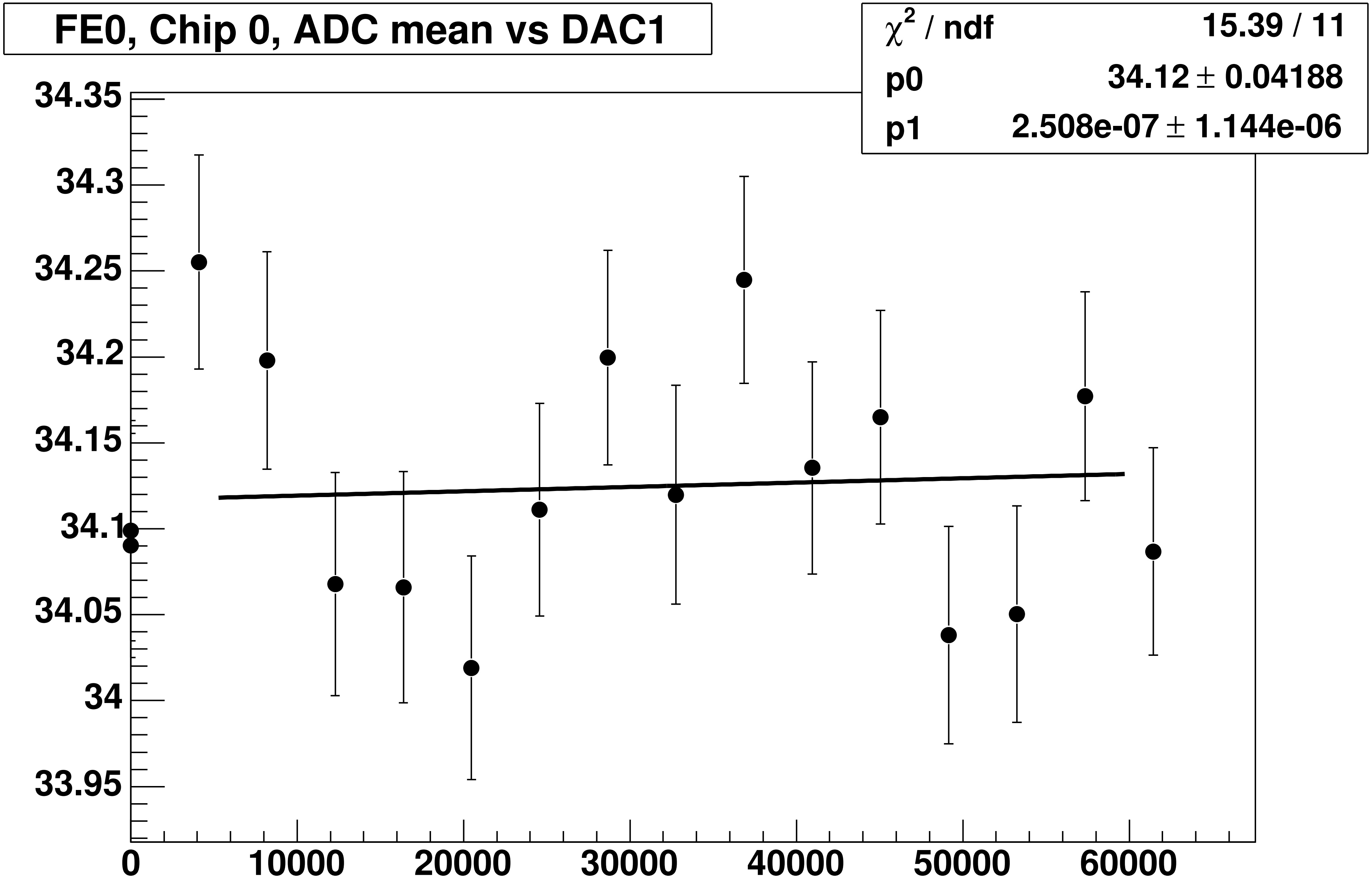
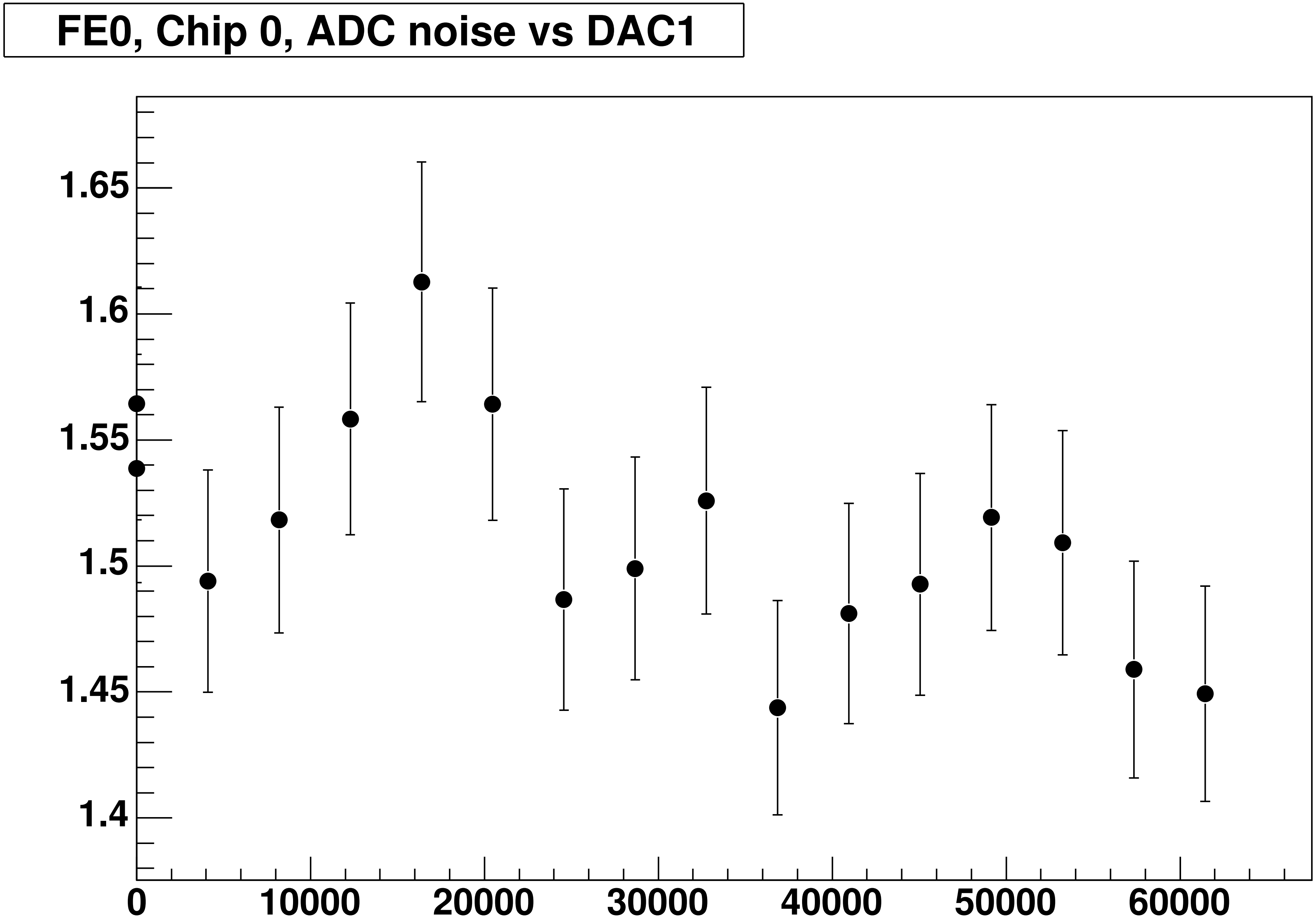


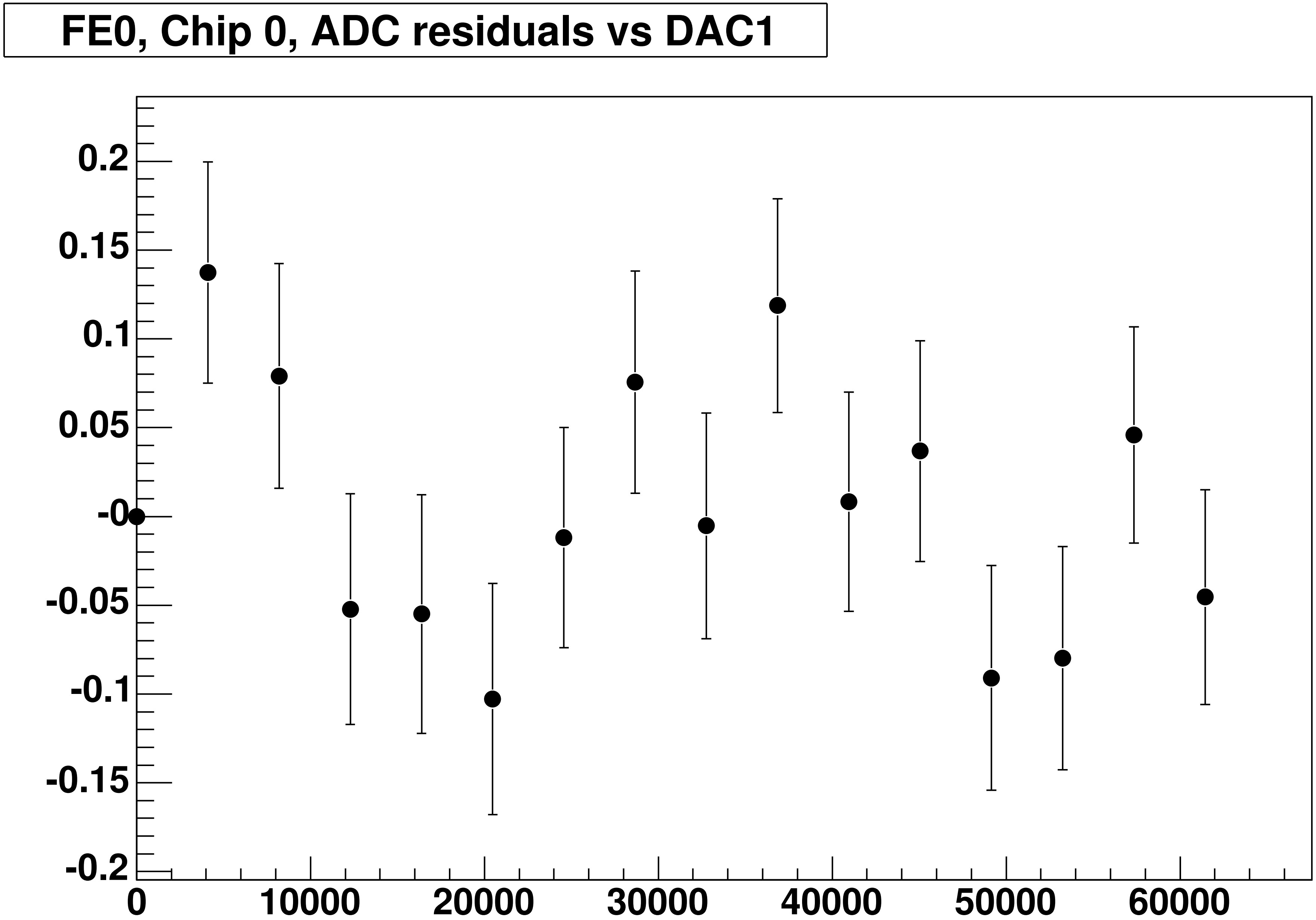
FE0, Chip 0, ADC mean vs DAC0
χ^2 / ndf 3475 / 11
p0 37.23 ± 0.0429
p1 0.4502 ± 1.406e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

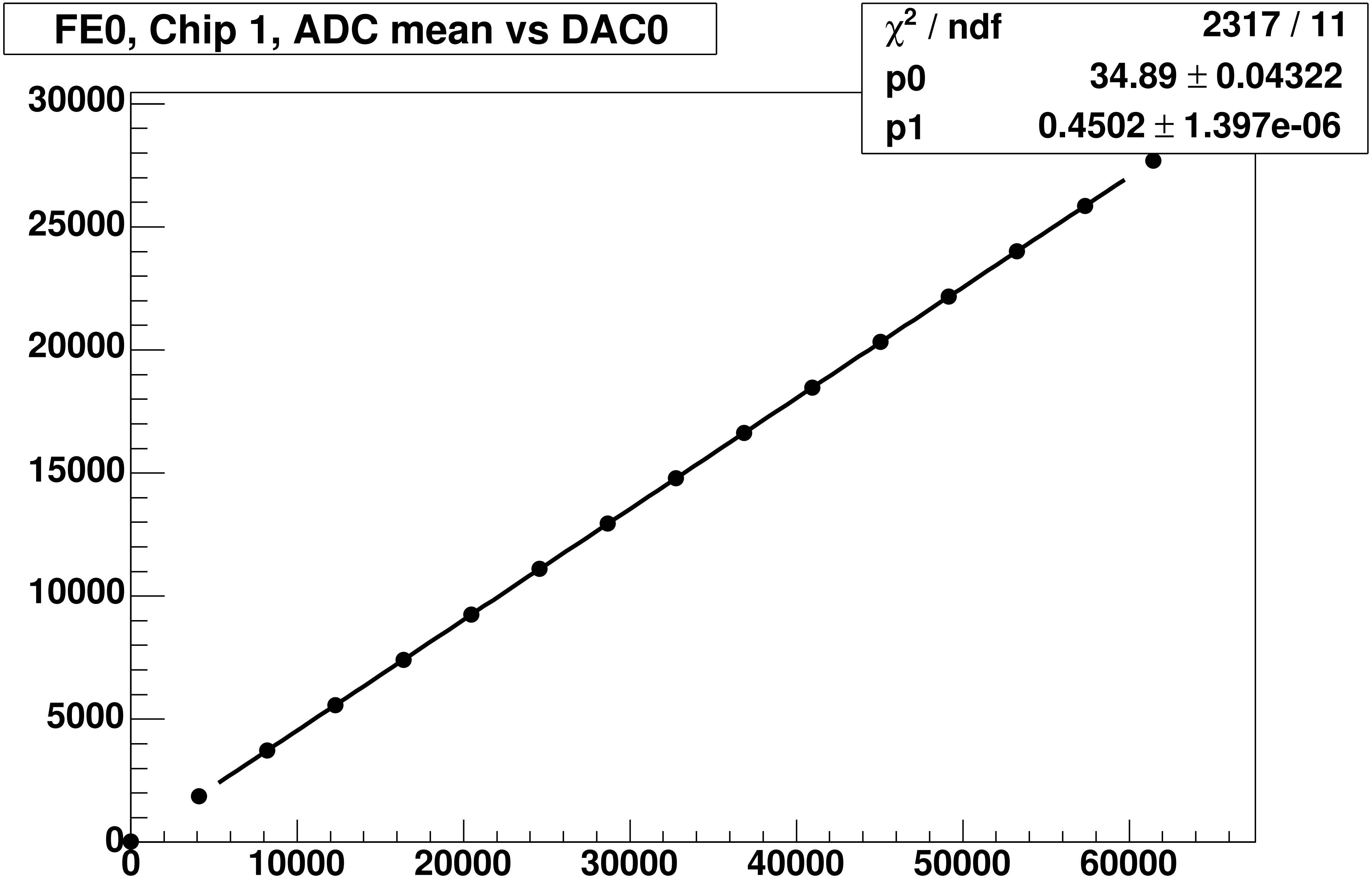

FE0, Chip 0, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

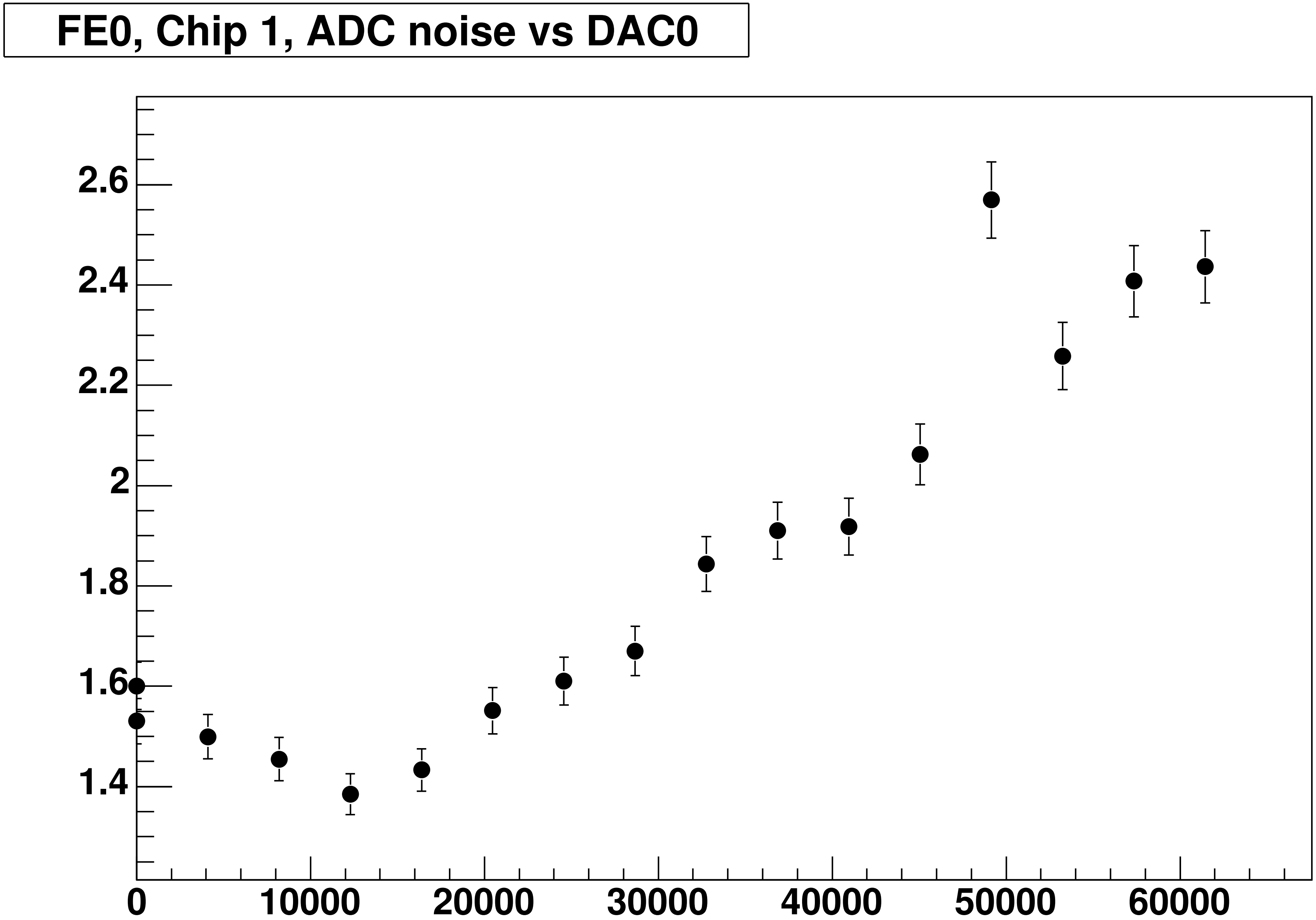

FE0, Chip 0, ADC residuals vs DAC0
3
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE0, Chip 0, ADC mean vs DAC1
χ^2 / ndf 15.39 / 11
p0 34.12 ± 0.04188
p1 2.508e-07 ± 1.144e-06
34.35
34.3
34.25
34.2
34.15
34.1
34.05
34
33.95
0
10000
20000
30000
40000
50000
60000

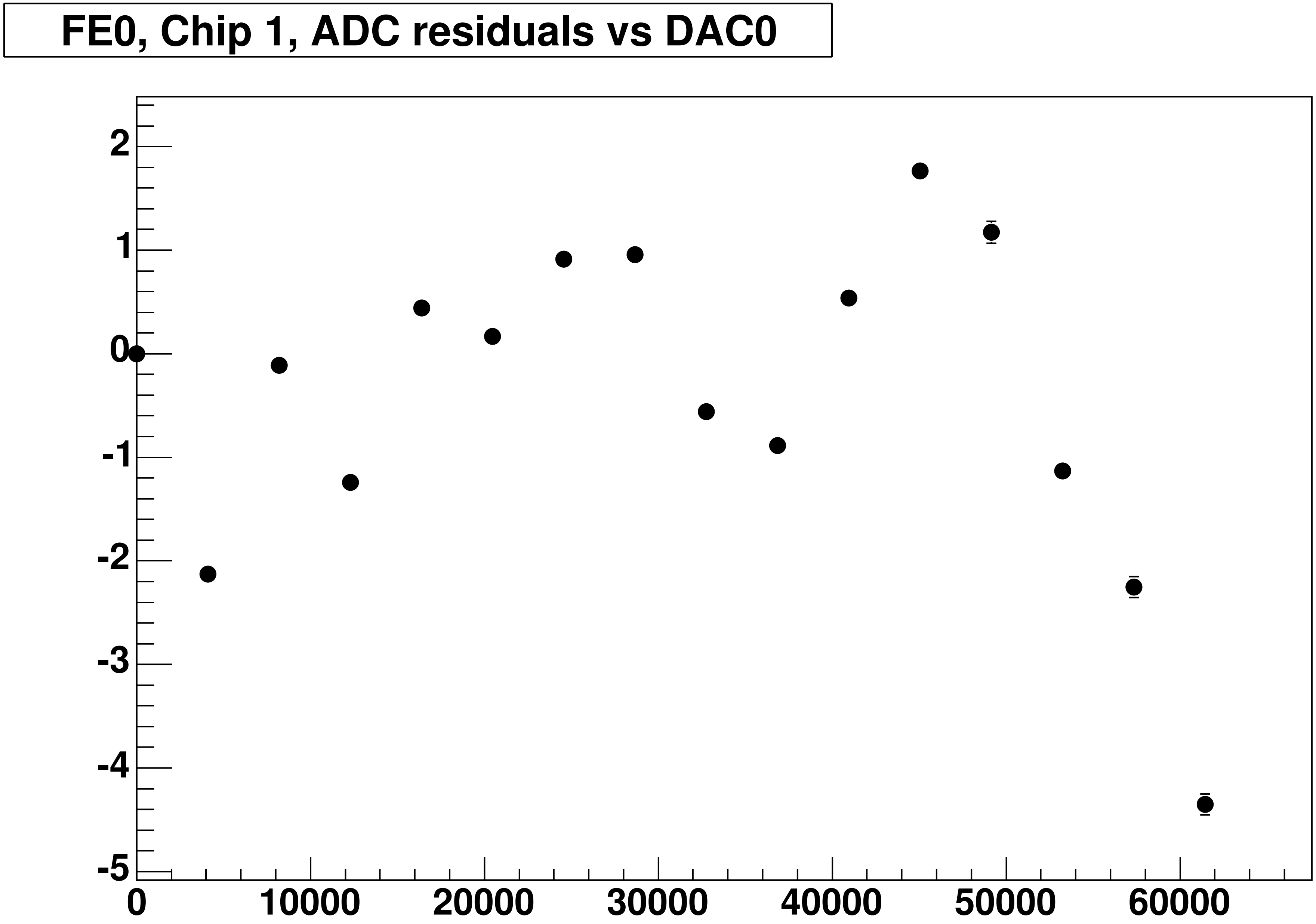

FE0, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

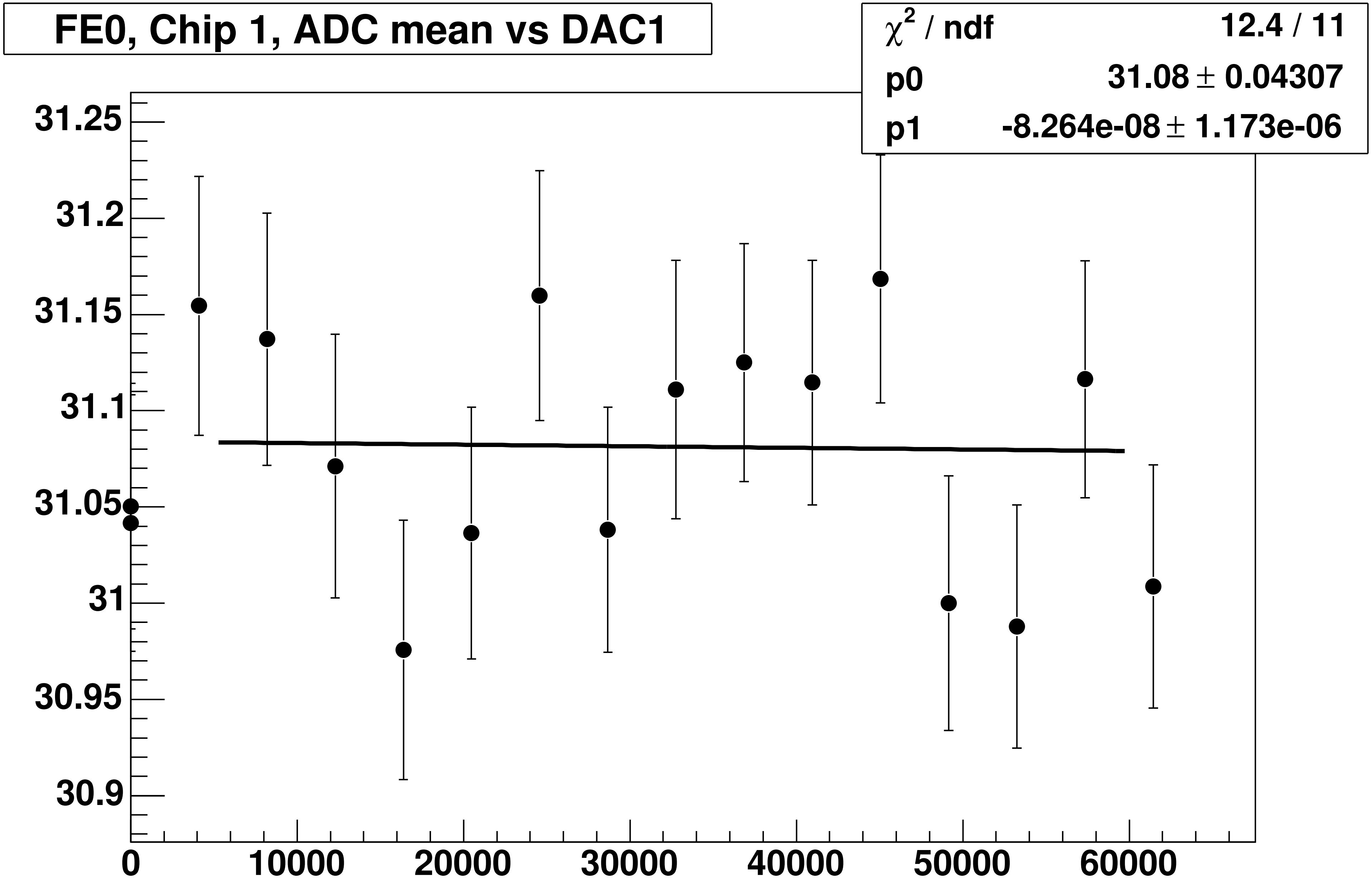

FE0, Chip 0, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

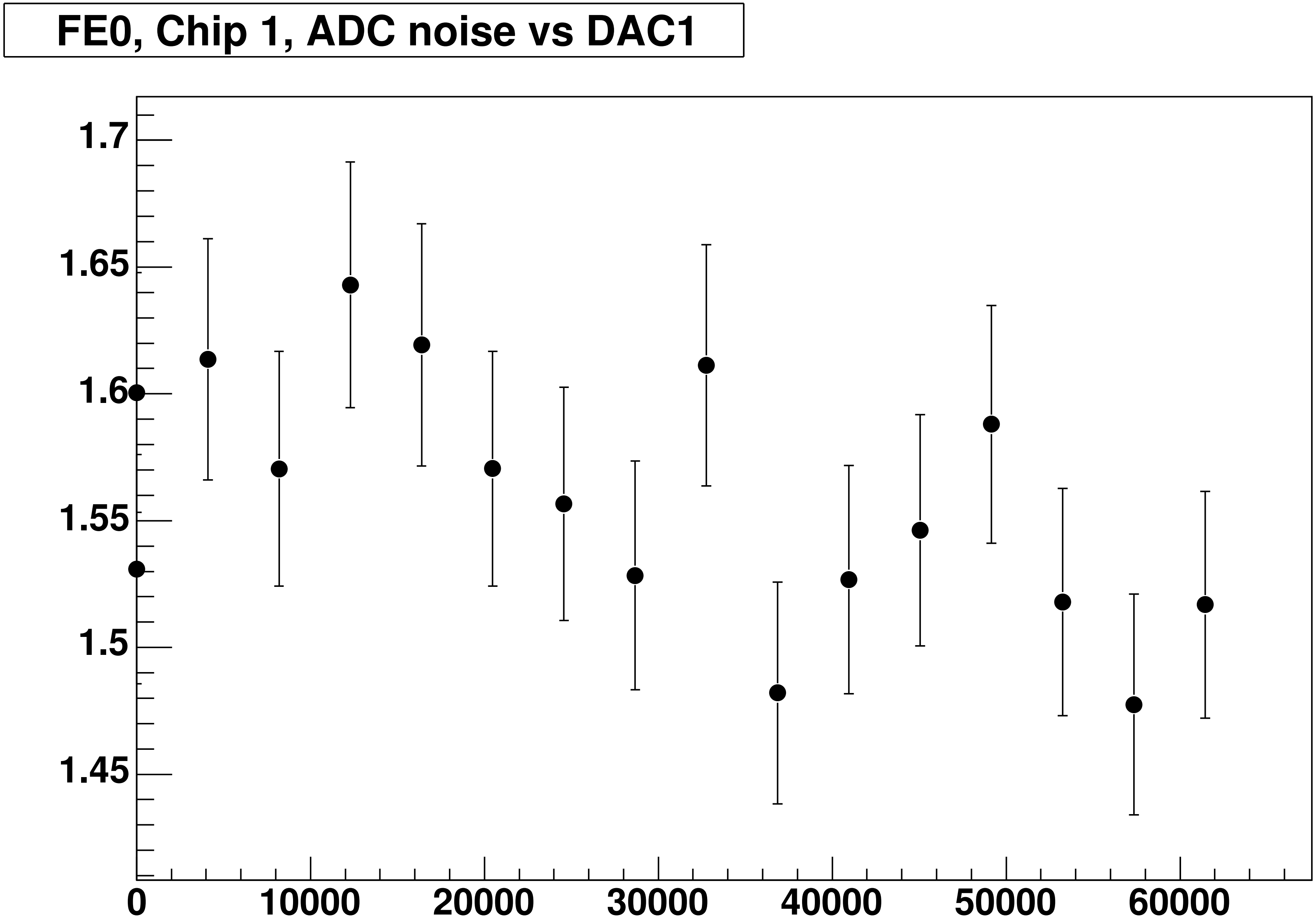

FE0, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2317 / 11
p0 34.89 ± 0.04322
p1 0.4502 ± 1.397e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

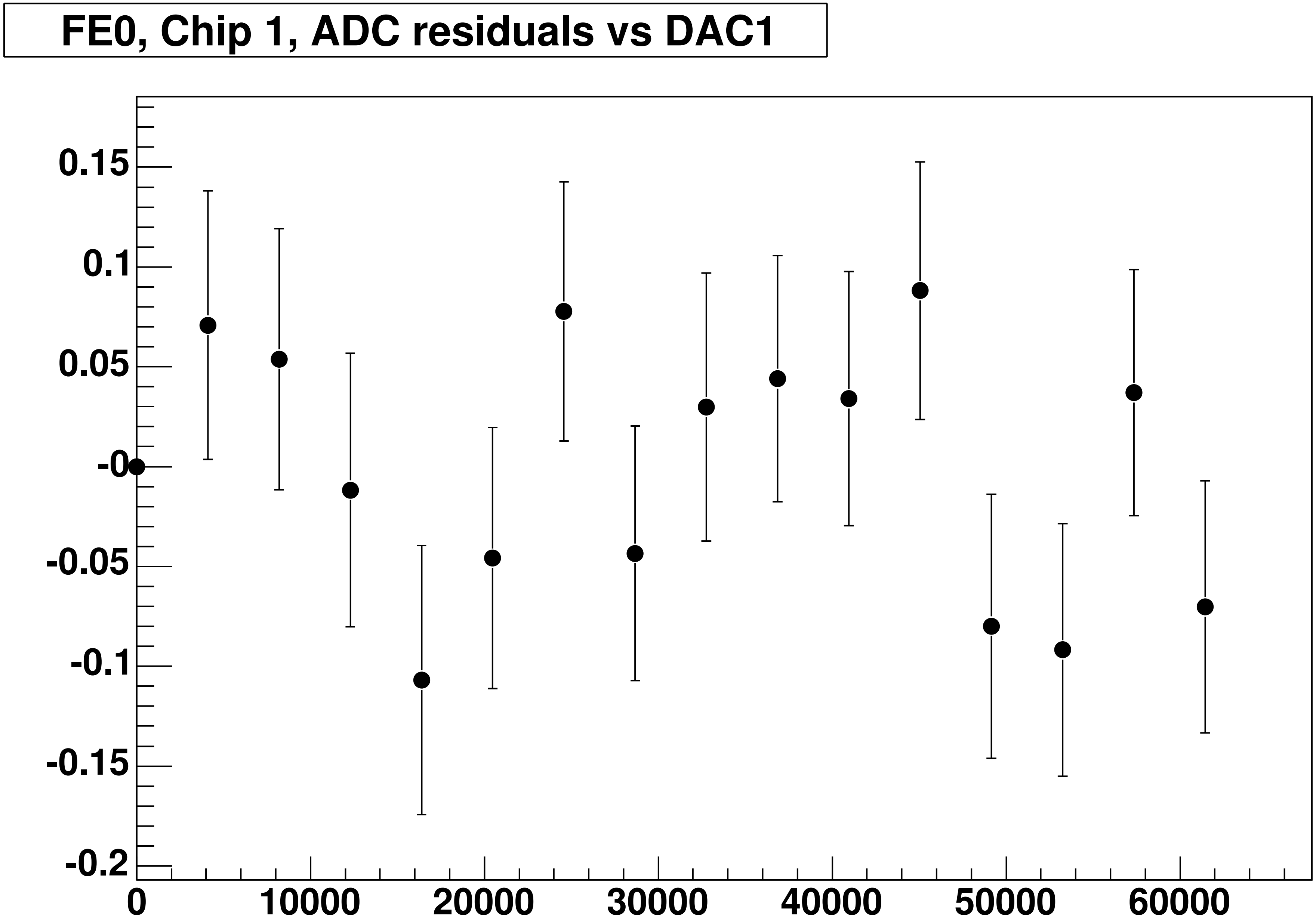


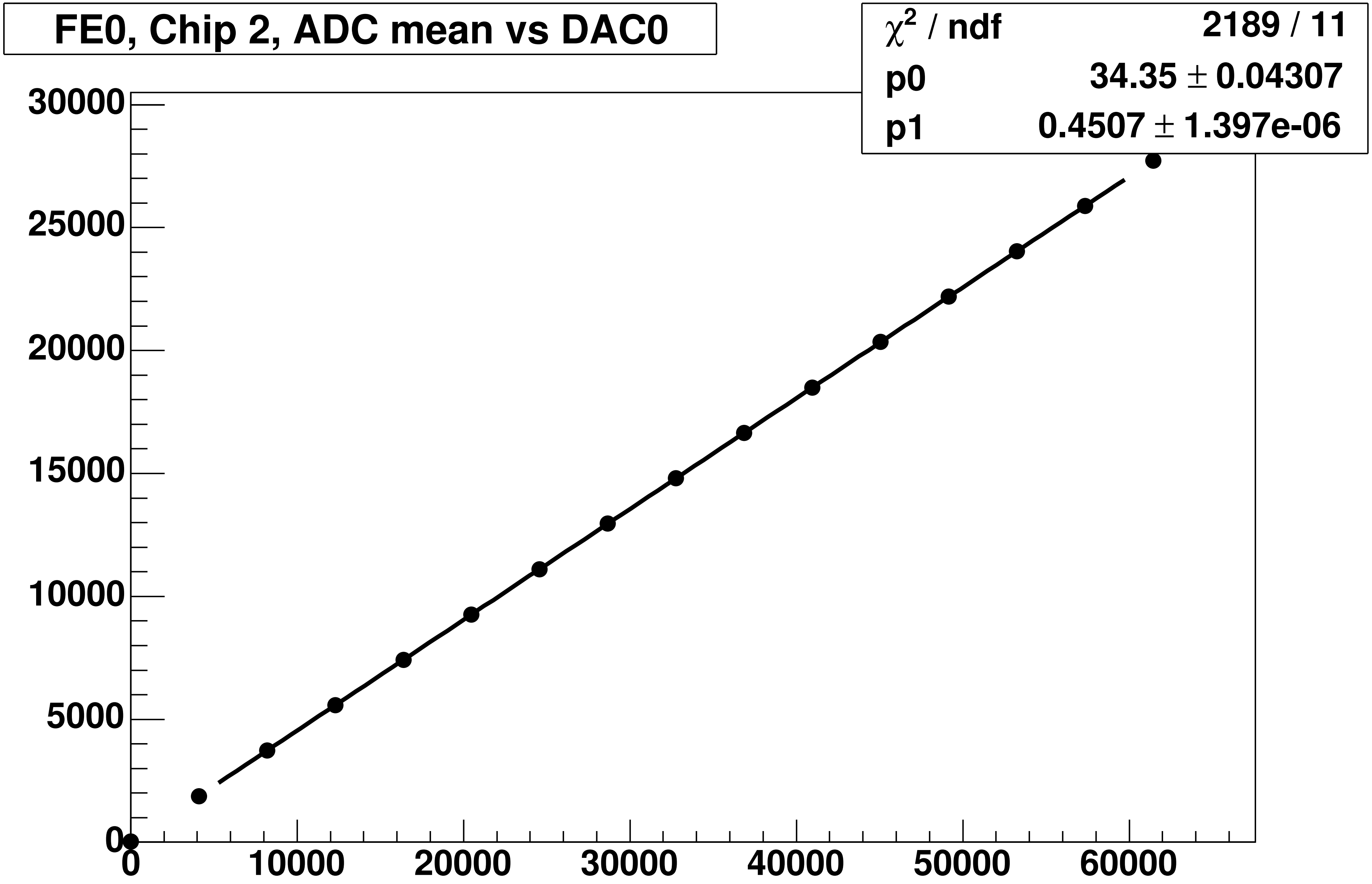
FE0, Chip 1, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

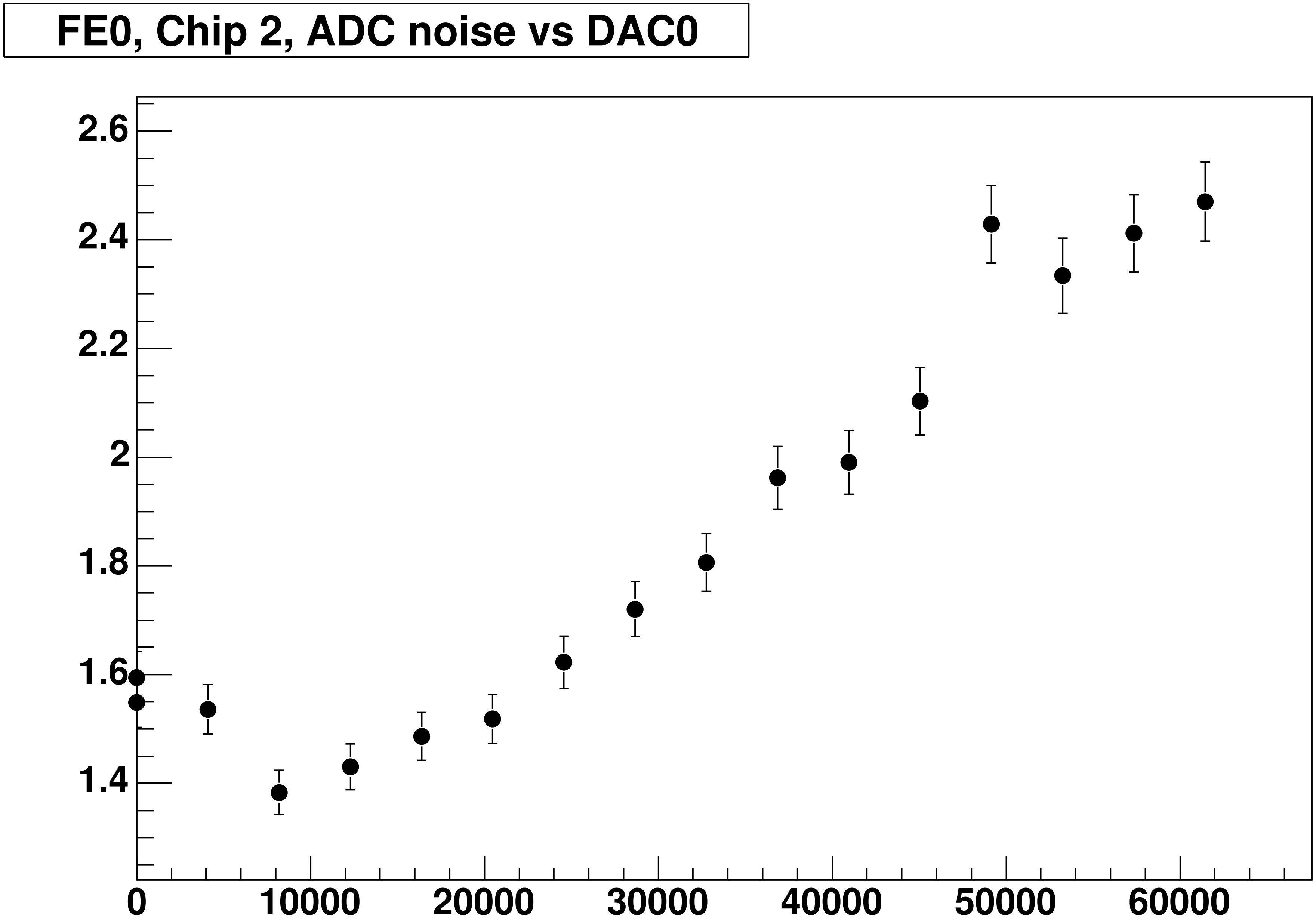

FE0, Chip 1, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE0, Chip 1, ADC mean vs DAC1
χ^2 / ndf 12.4 / 11
p0 31.08 ± 0.04307
p1 -8.264e-08 ± 1.173e-06
31.25
31.2
31.15
31.1
31.05
31
30.95
30.9
0
10000
20000
30000
40000
50000
60000

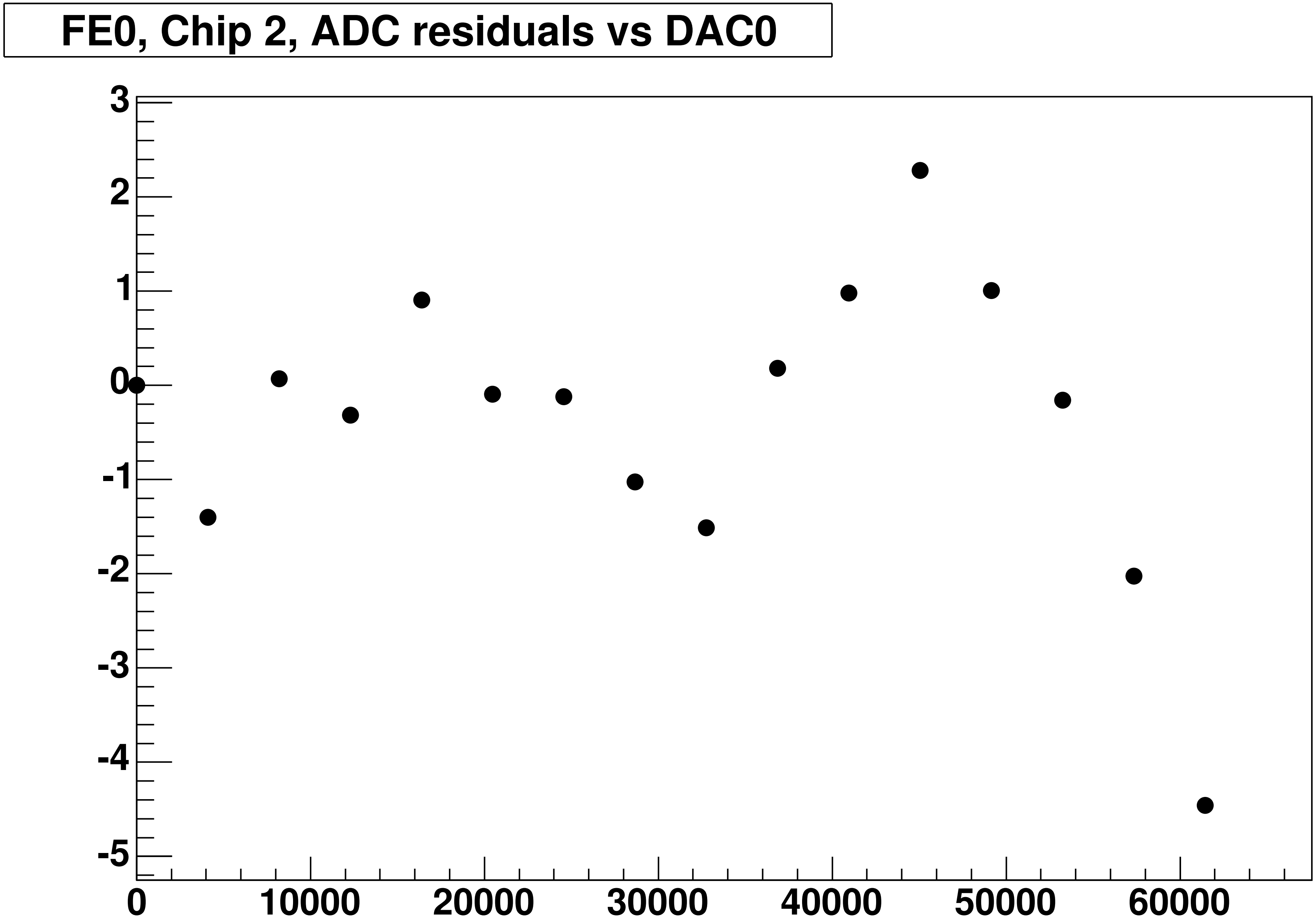

FE0, Chip 1, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

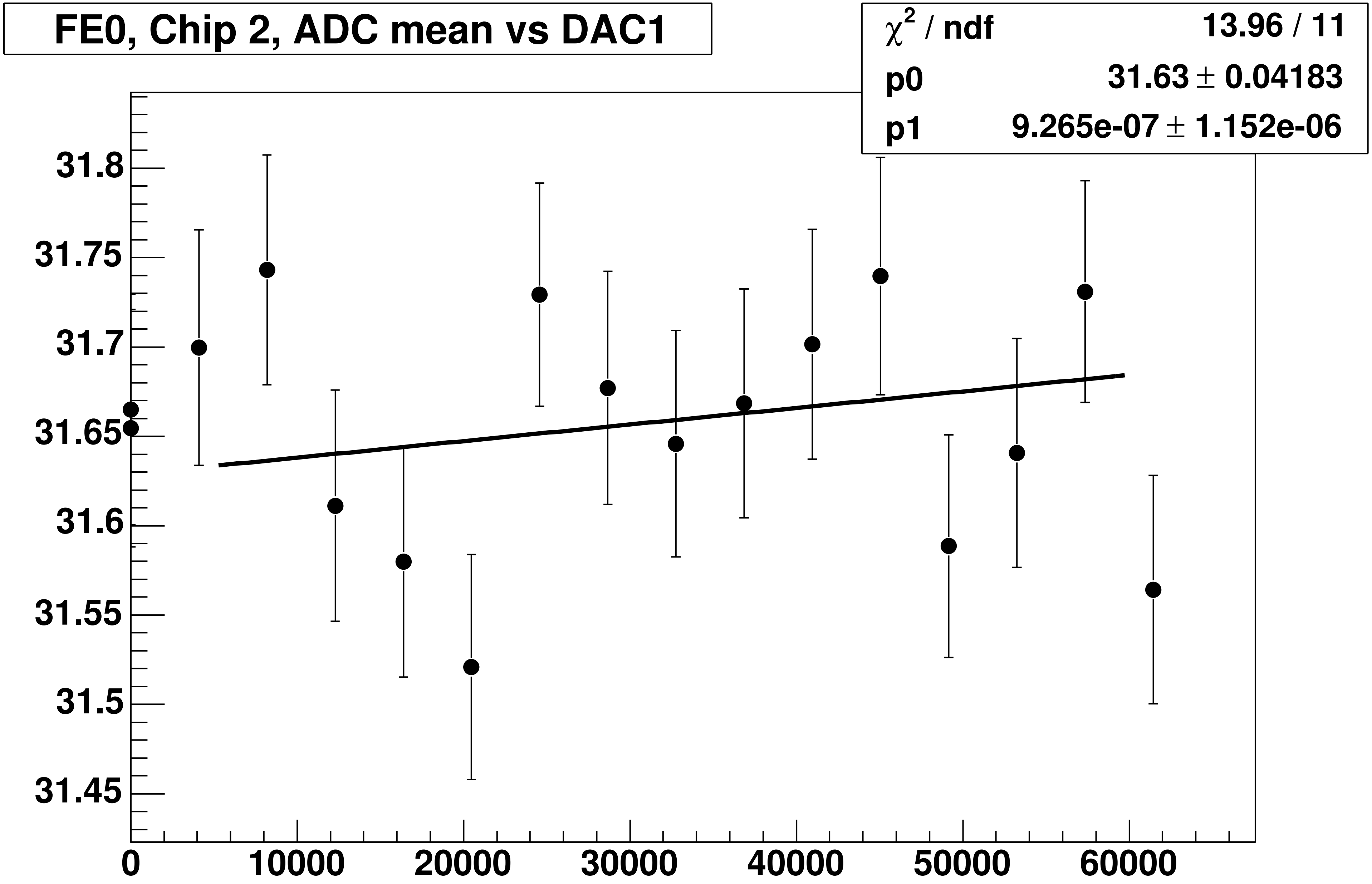

FE0, Chip 1, ADC residuals vs DAC1
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

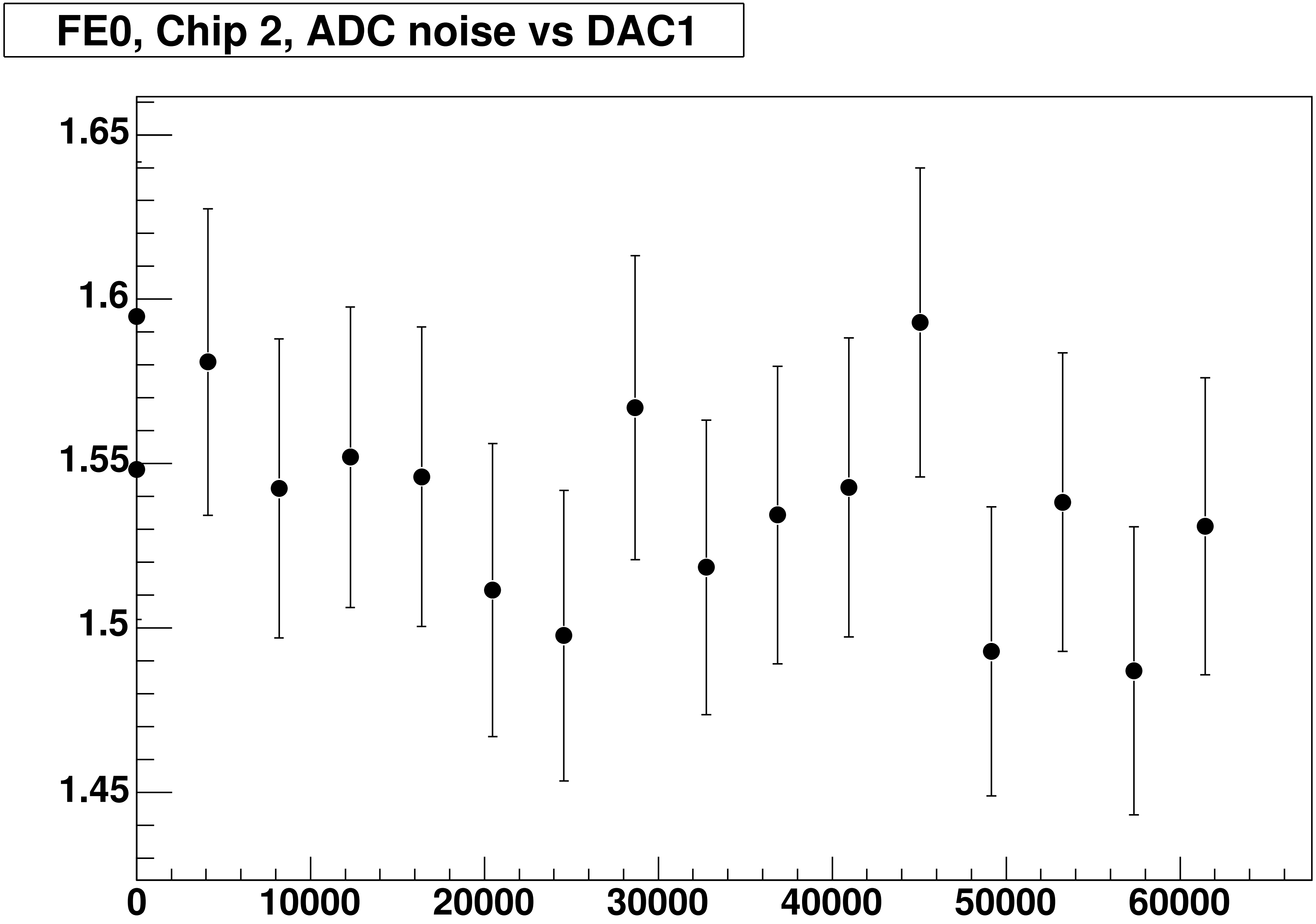

FE0, Chip 2, ADC mean vs DAC0
χ² / ndf 2189 / 11
p0 34.35 ± 0.04307
p1 0.4507 ± 1.397e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

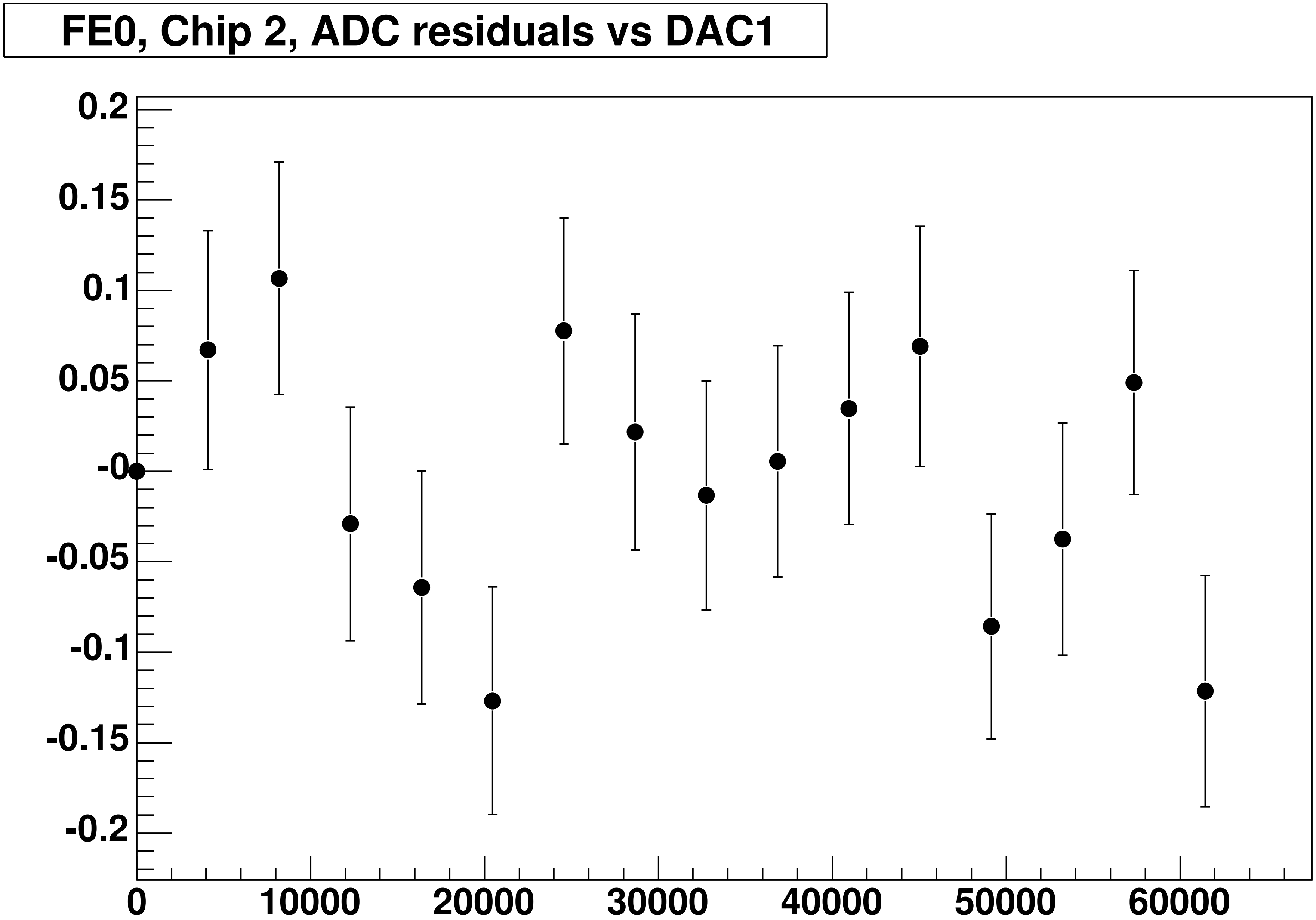


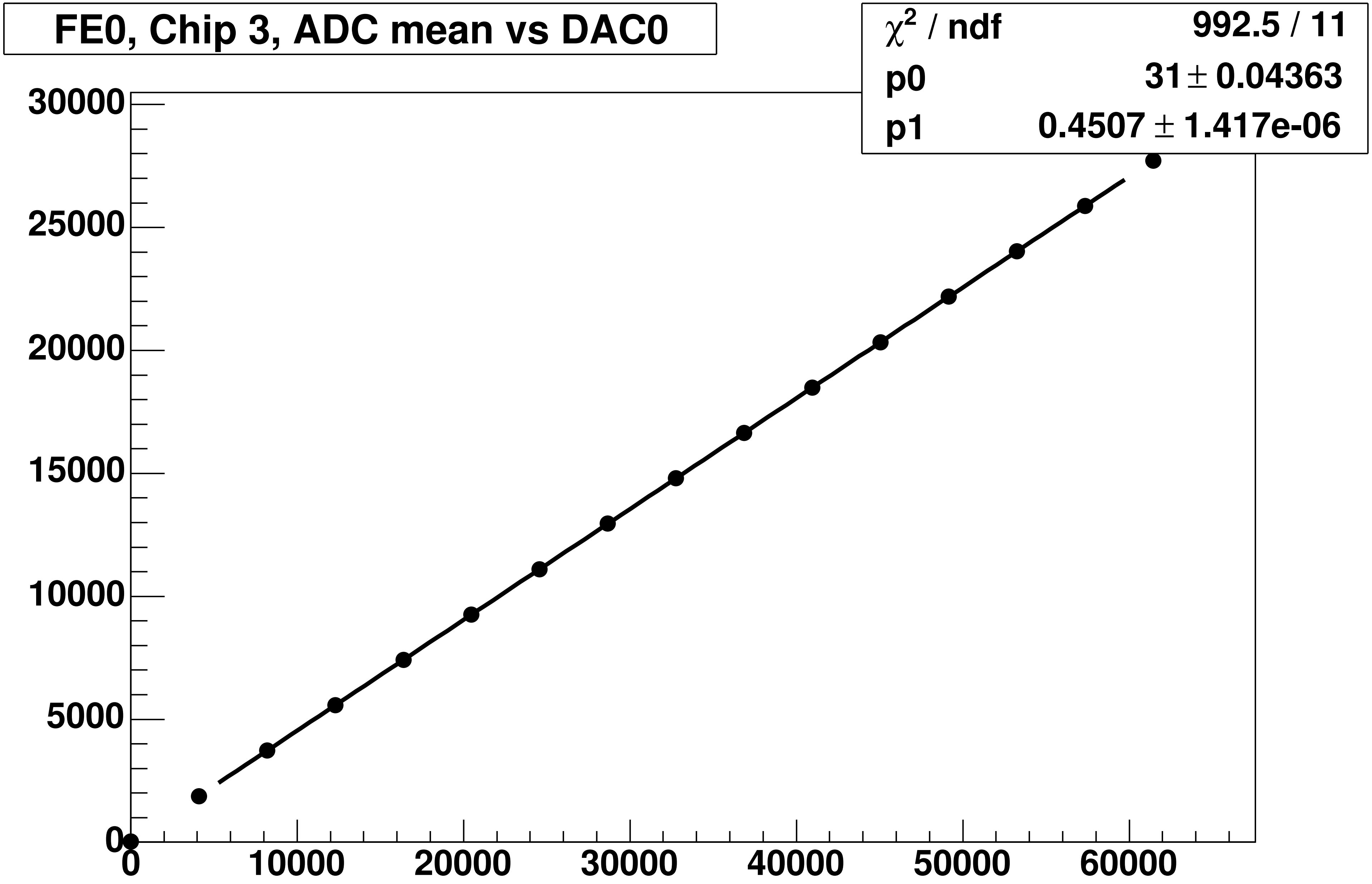
FE0, Chip 2, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


FE0, Chip 2, ADC residuals vs DAC0
3
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

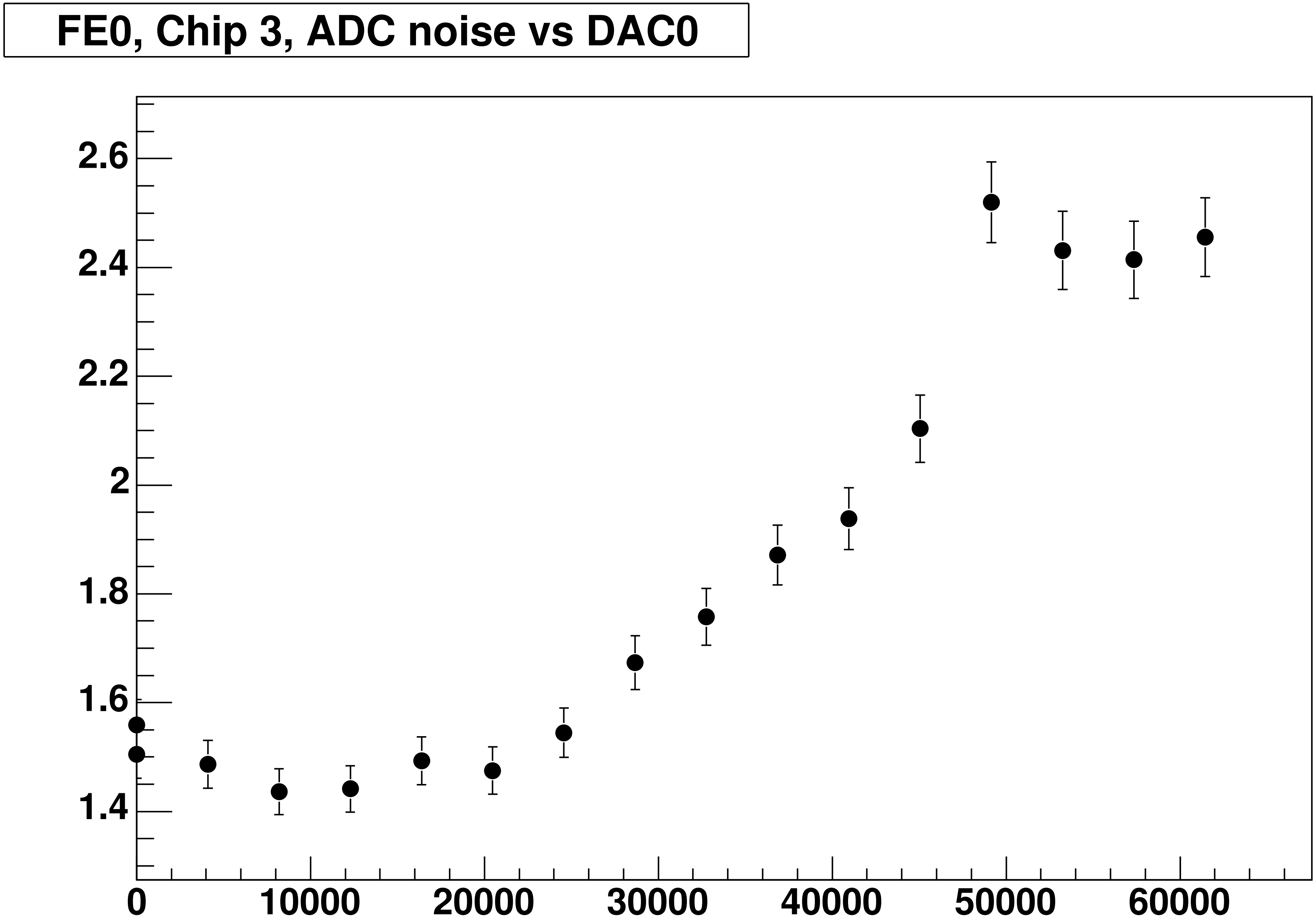

FE0, Chip 2, ADC mean vs DAC1
χ2 / ndf 13.96 / 11
p0 31.63 ± 0.04183
p1 9.265e-07 ± 1.152e-06
31.8
31.75
31.7
31.65
31.6
31.55
31.5
31.45
0
10000
20000
30000
40000
50000
60000

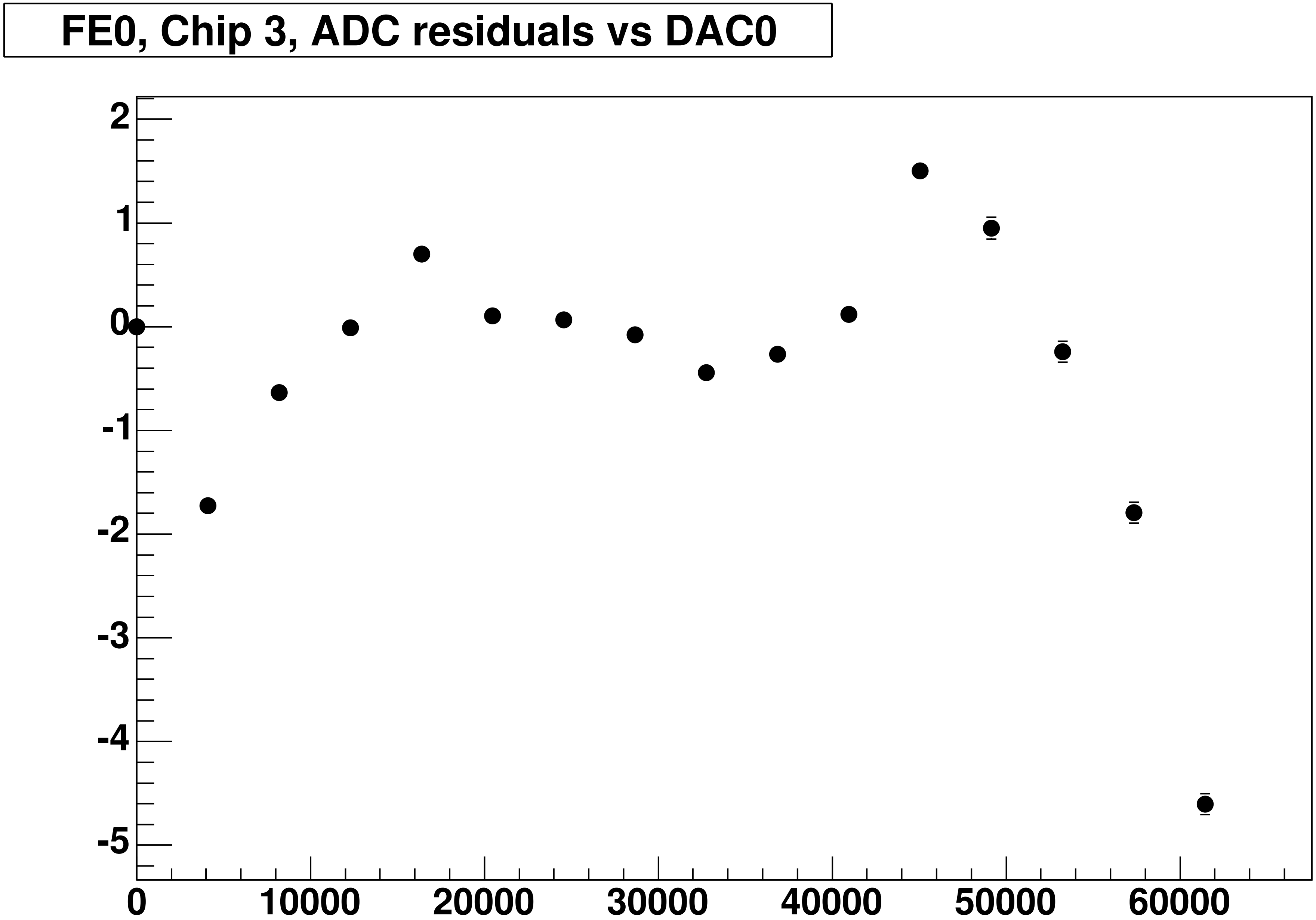

FE0, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

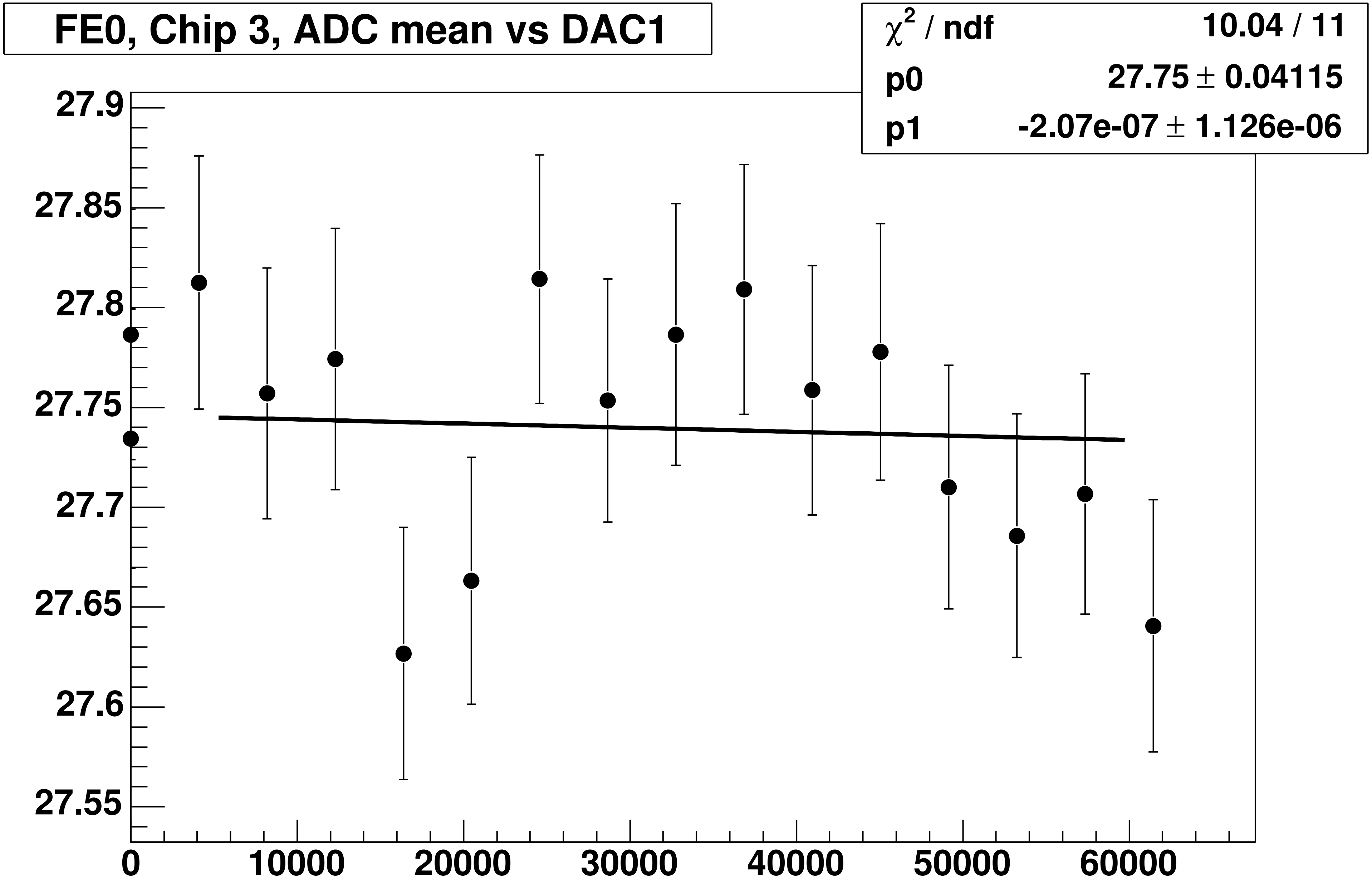

FE0, Chip 2, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



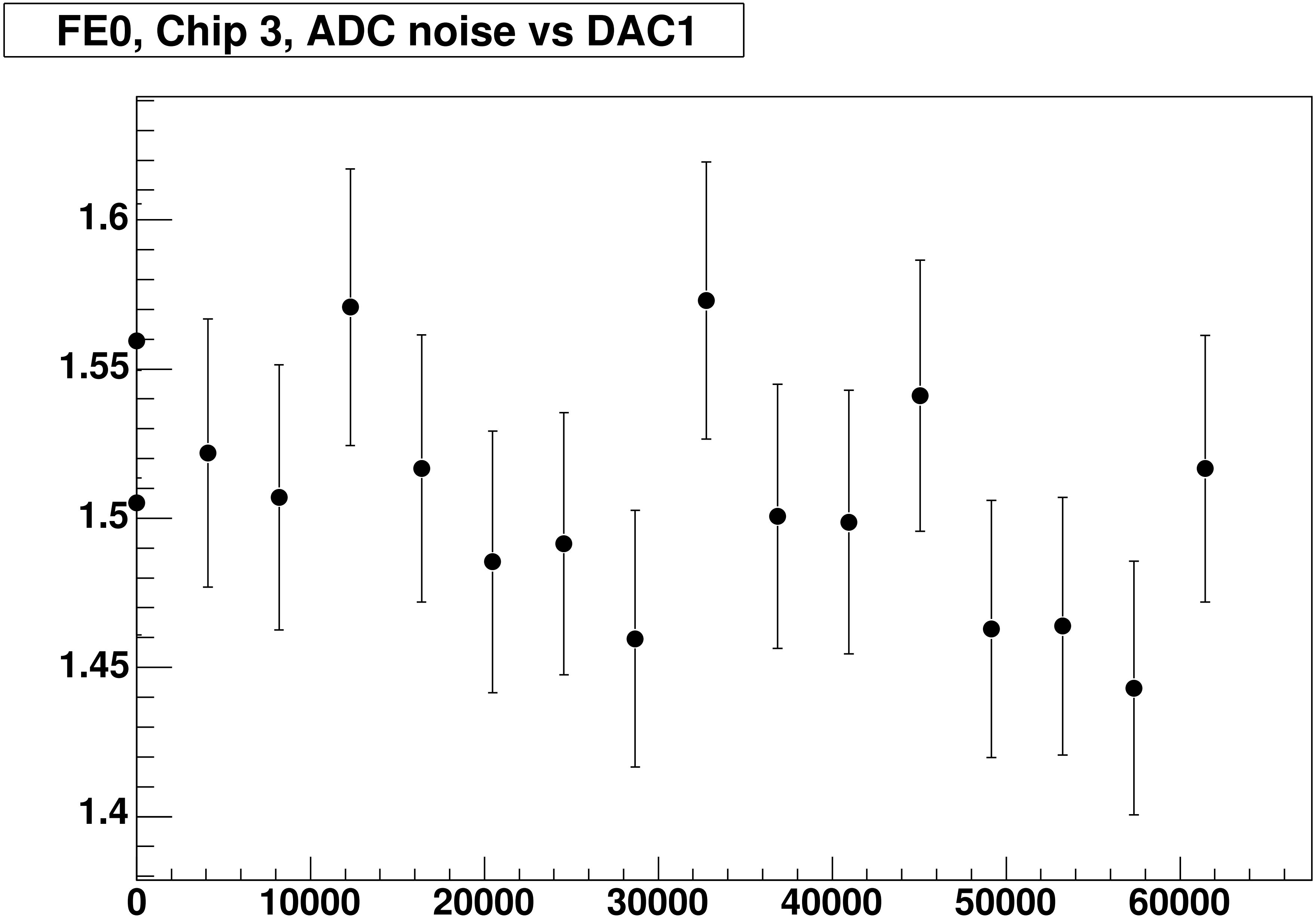
FE0, Chip 3, ADC mean vs DAC0
χ^2 / ndf 992.5 / 11
p0 31 ± 0.04363
p1 0.4507 ± 1.417e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE0, 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

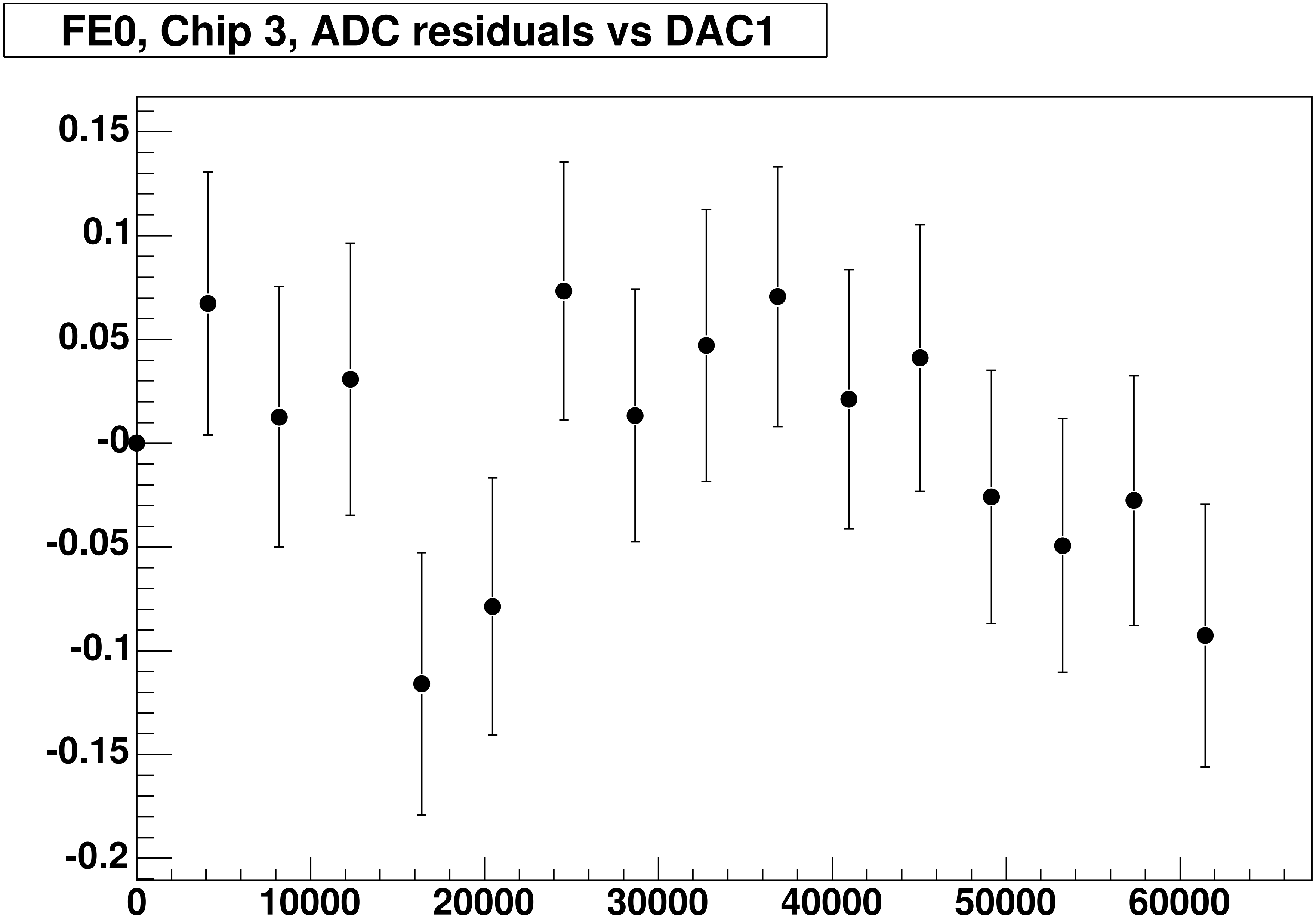

FE0, Chip 3, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

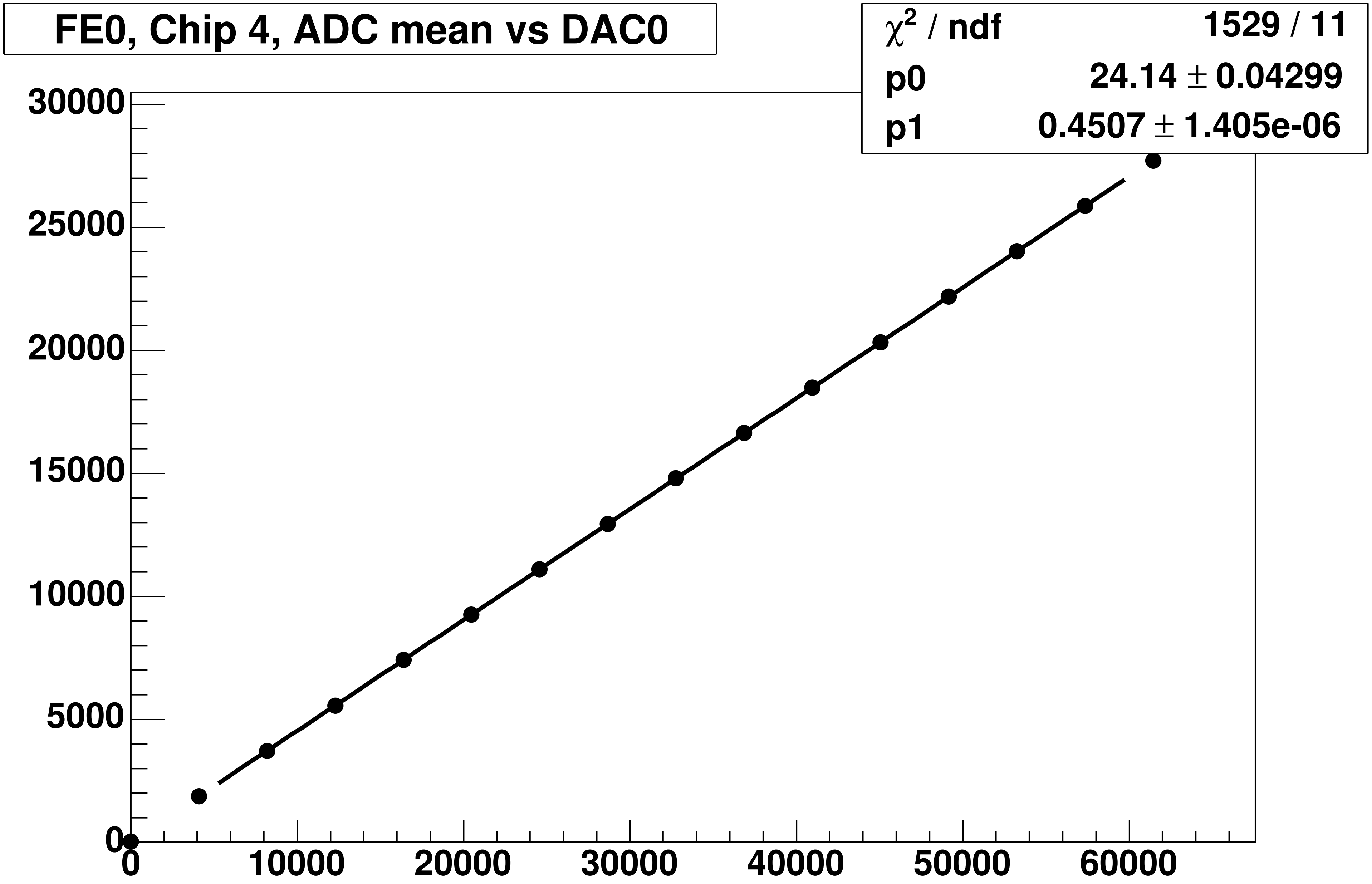


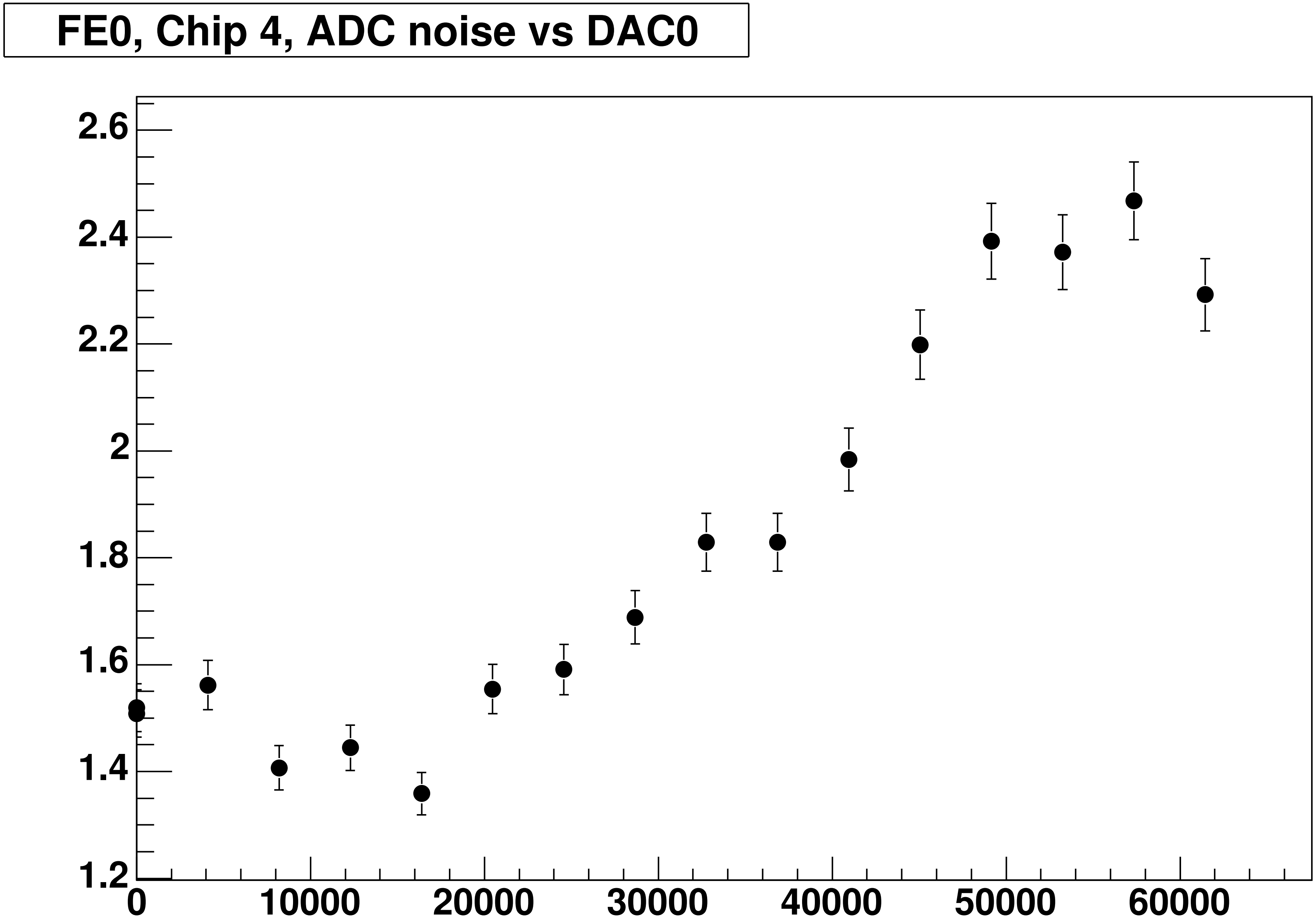
FE0, Chip 3, ADC mean vs DAC1
χ2 / ndf 10.04 / 11
p0 27.75 ± 0.04115
p1 -2.07e-07 ± 1.126e-06
27.9
27.85
27.8
27.75
27.7
27.65
27.6
27.55
0
10000
20000
30000
40000
50000
60000

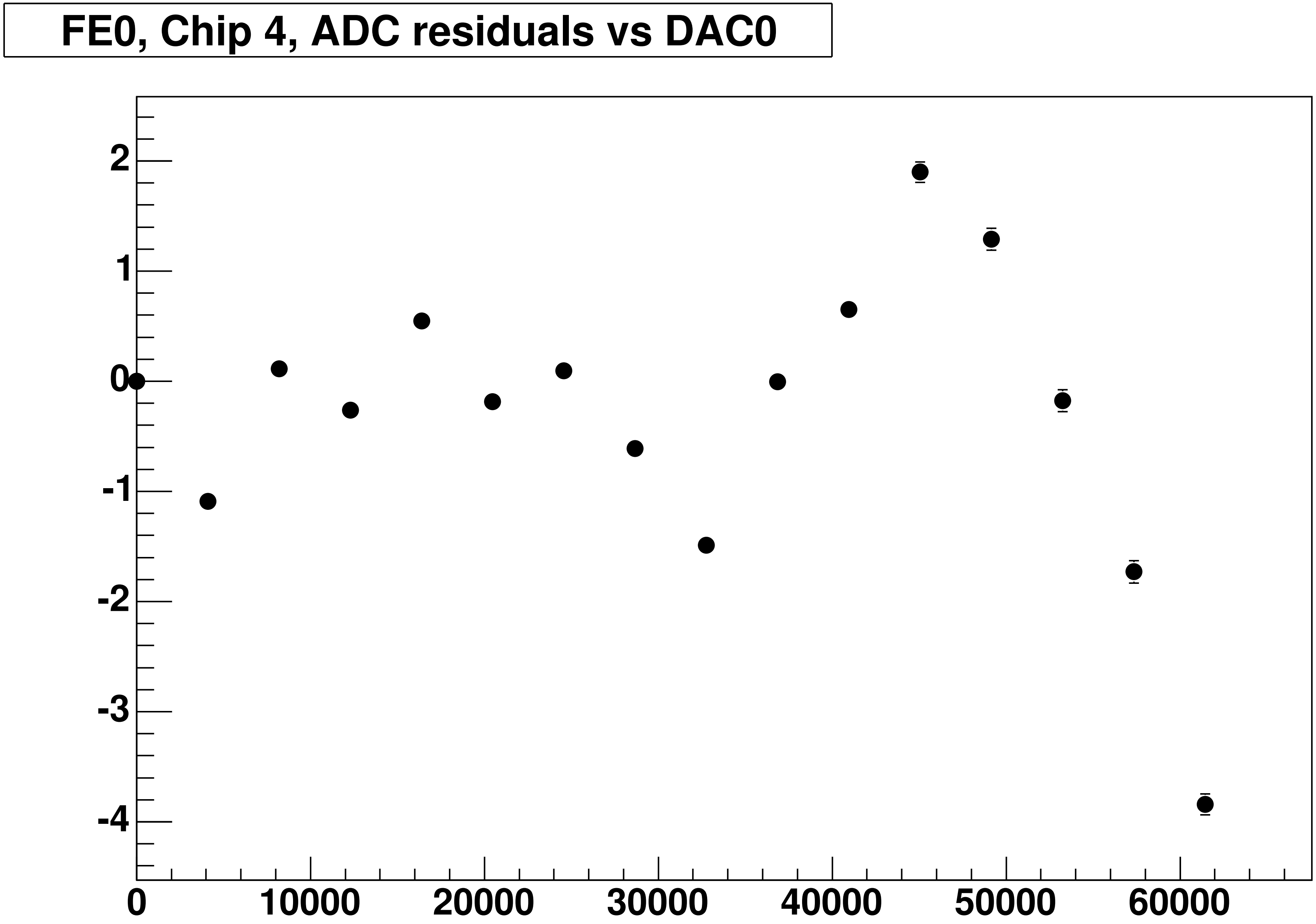


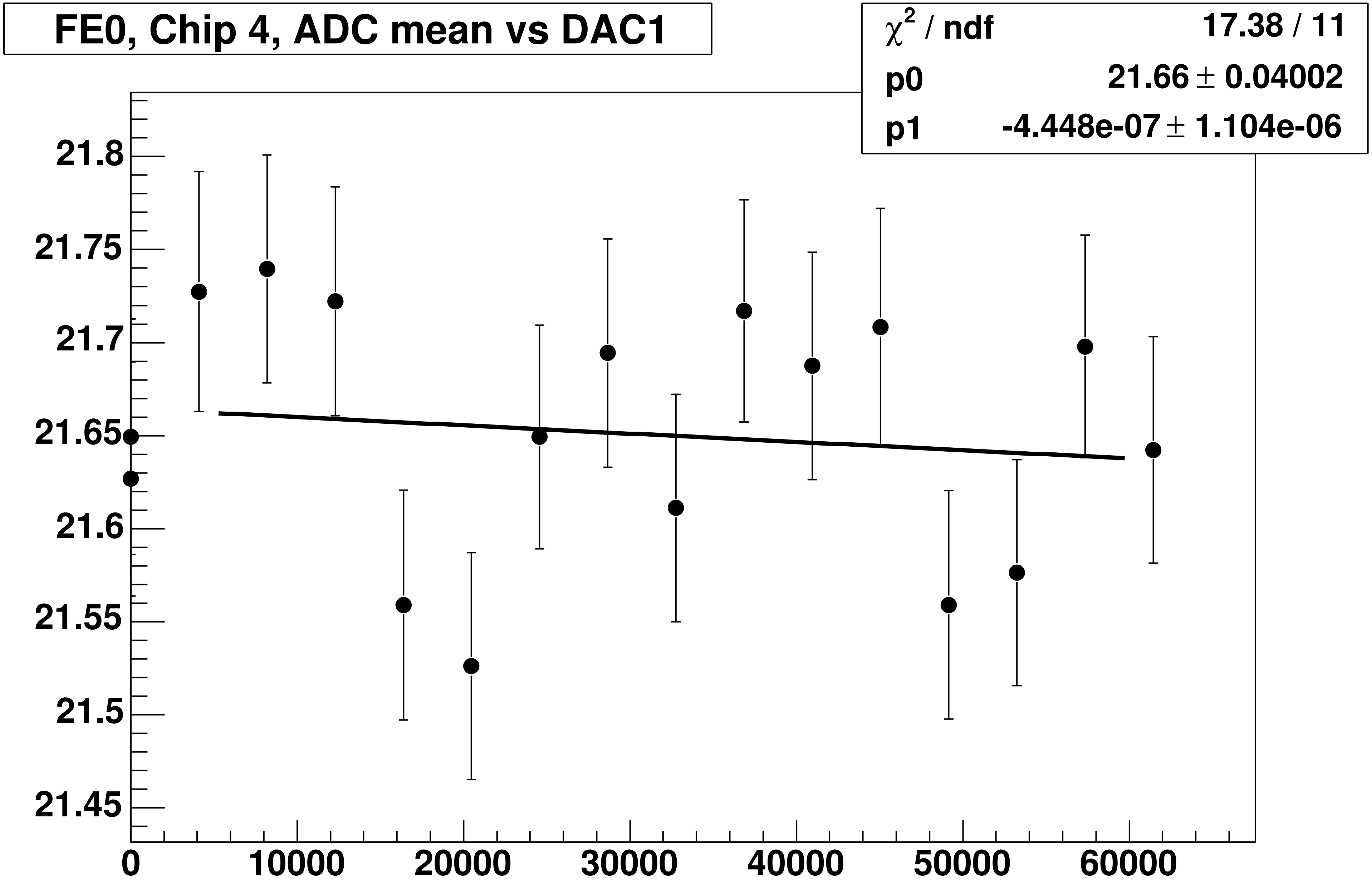
FE0, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

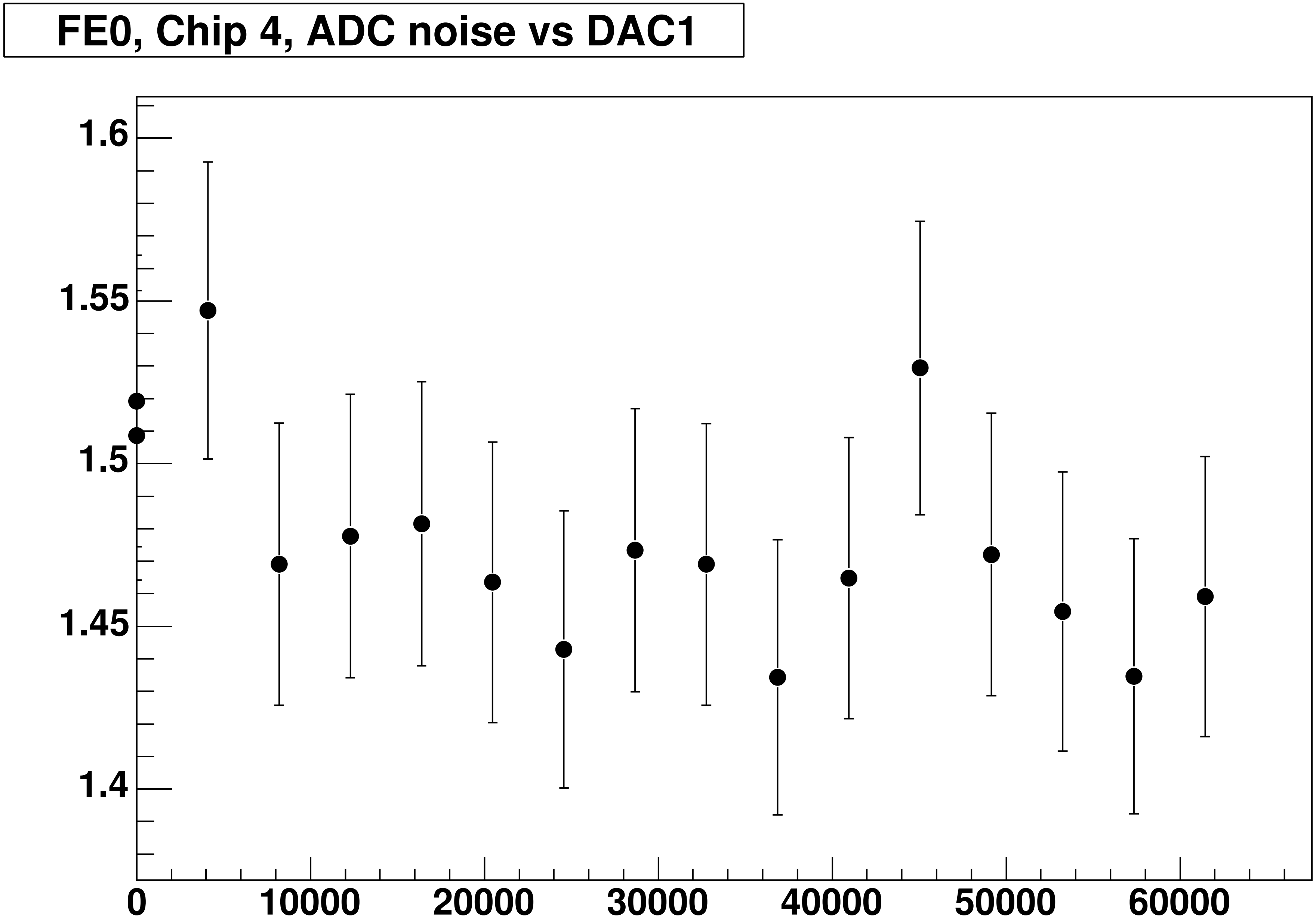

FE0, Chip 3, ADC residuals vs DAC1
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE0, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1529 / 11
p0 24.14 ± 0.04299
p1 0.4507 ± 1.405e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

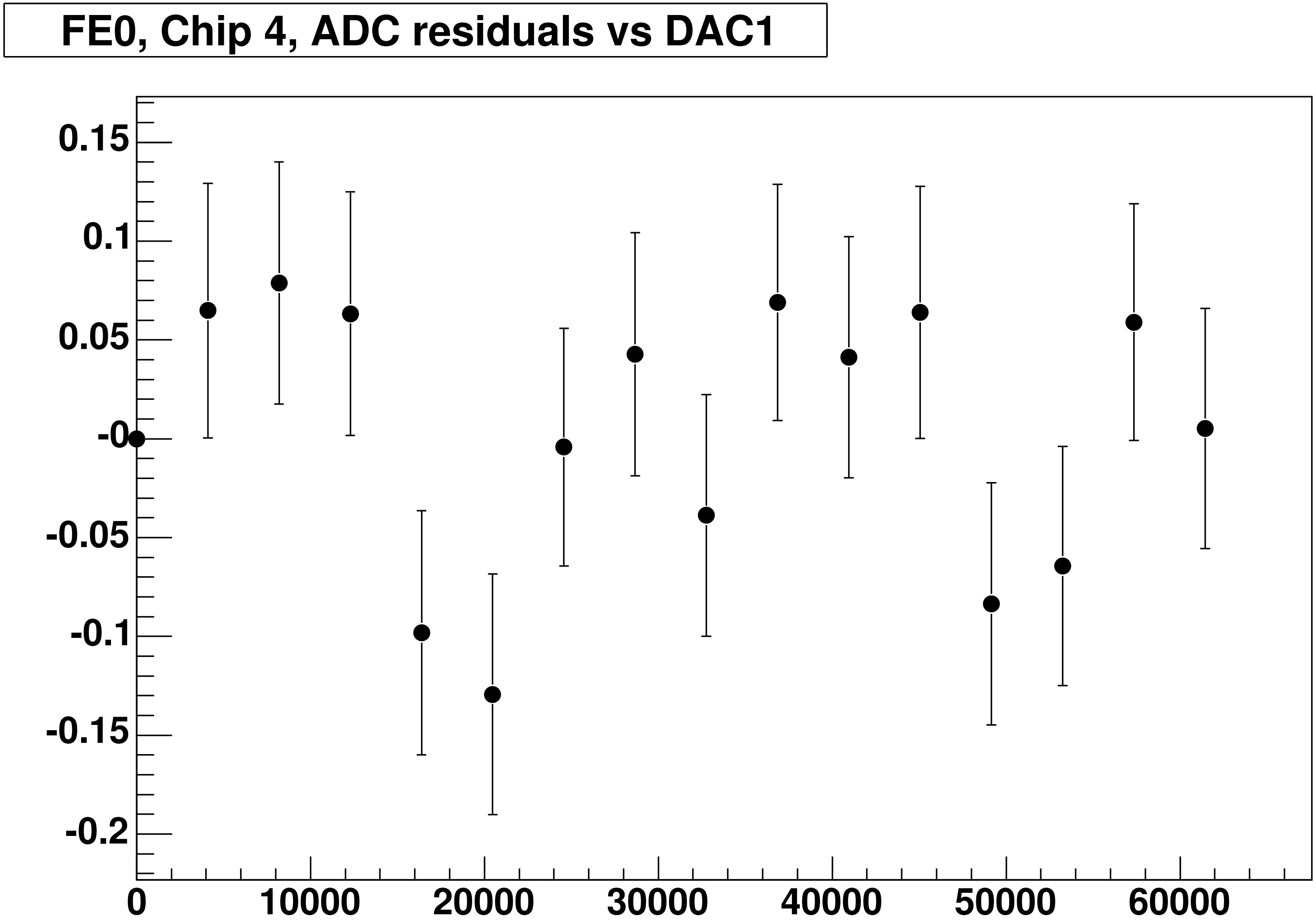

FE0, Chip 4, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

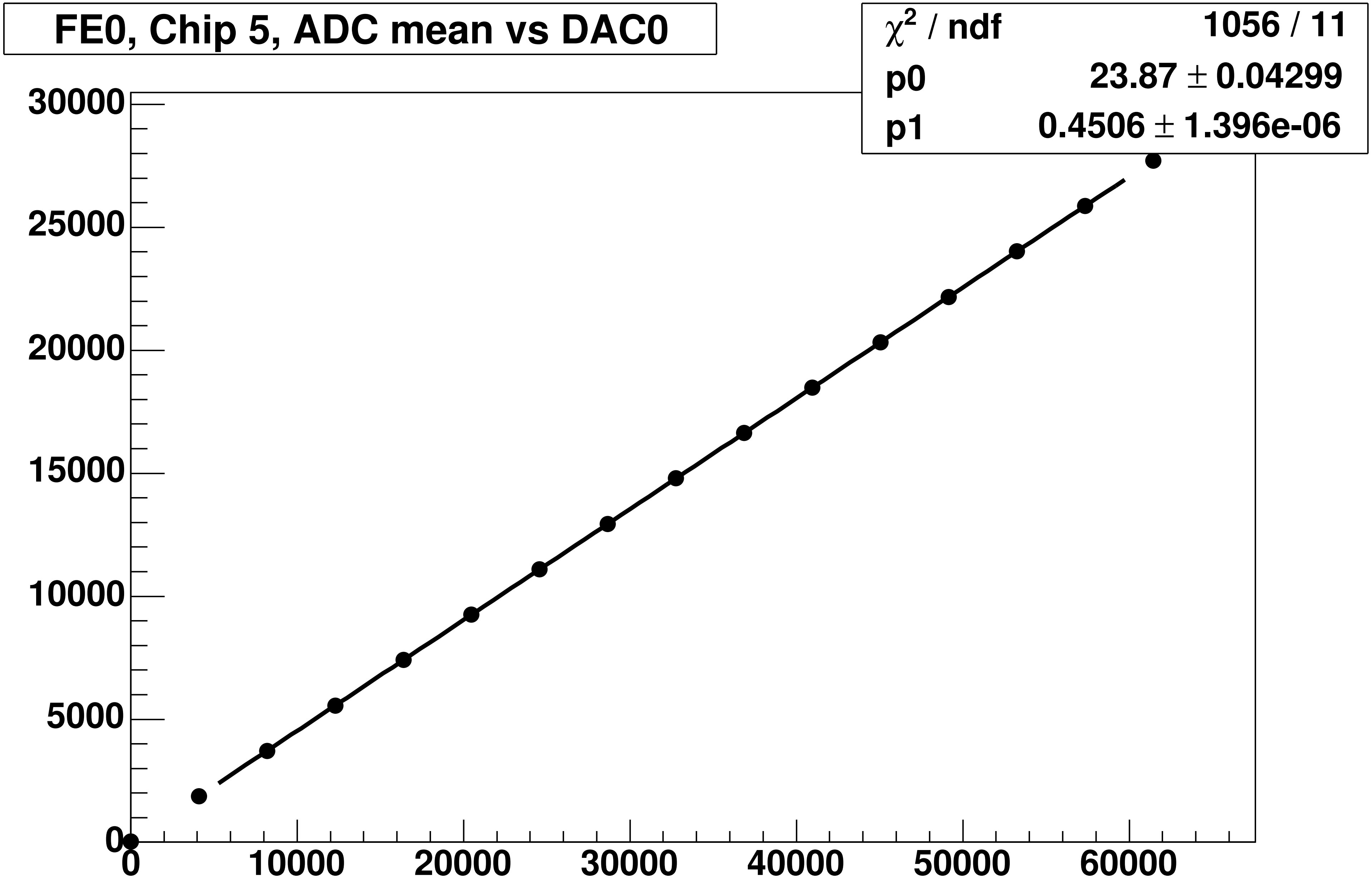

FE0, Chip 4, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

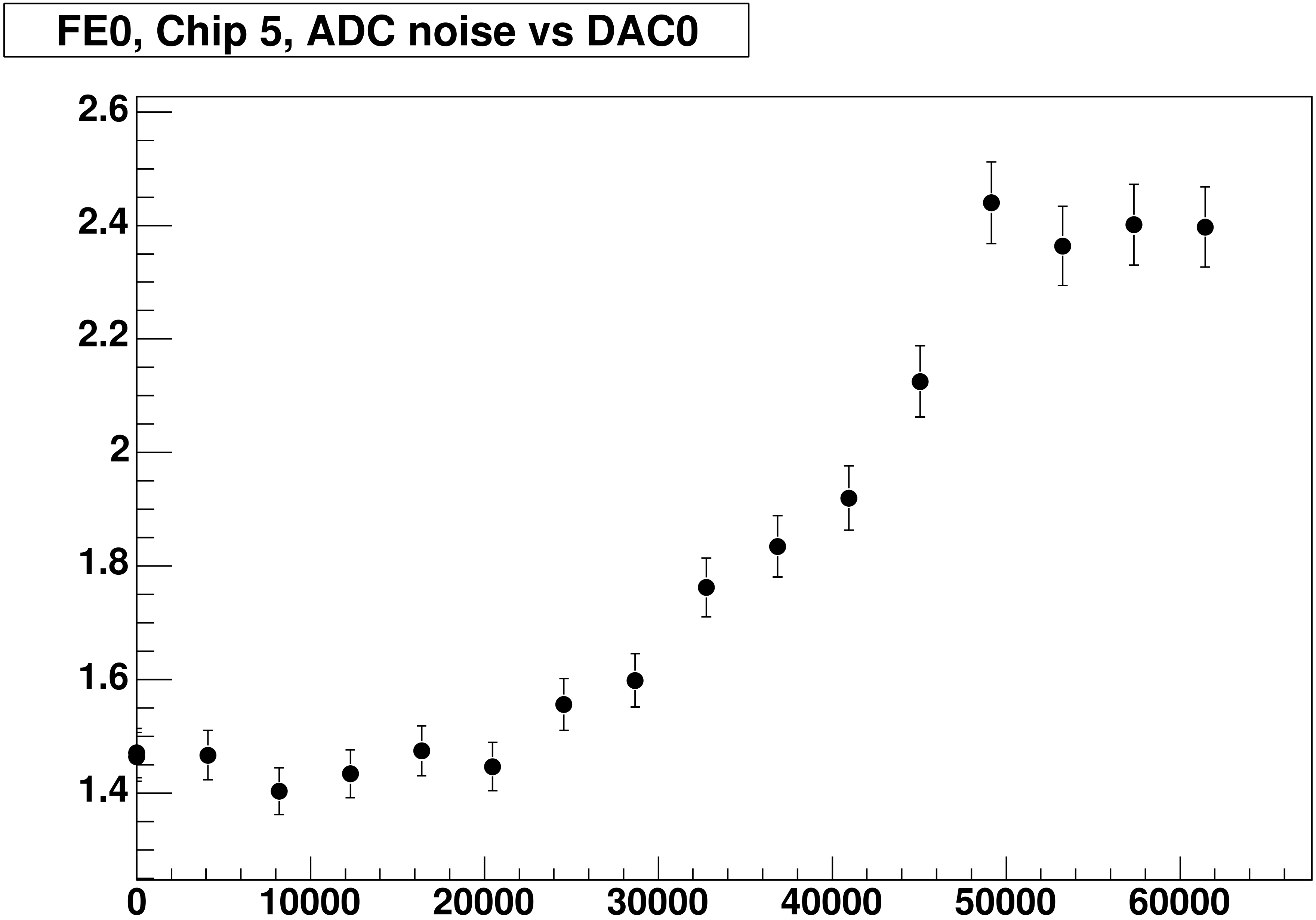

FE0, Chip 4, ADC mean vs DAC1
χ^2 / ndf 17.38 / 11
p0 21.66 ± 0.04002
p1 -4.448e-07 ± 1.104e-06
21.8
21.75
21.7
21.65
21.6
21.55
21.5
21.45
0
10000
20000
30000
40000
50000
60000

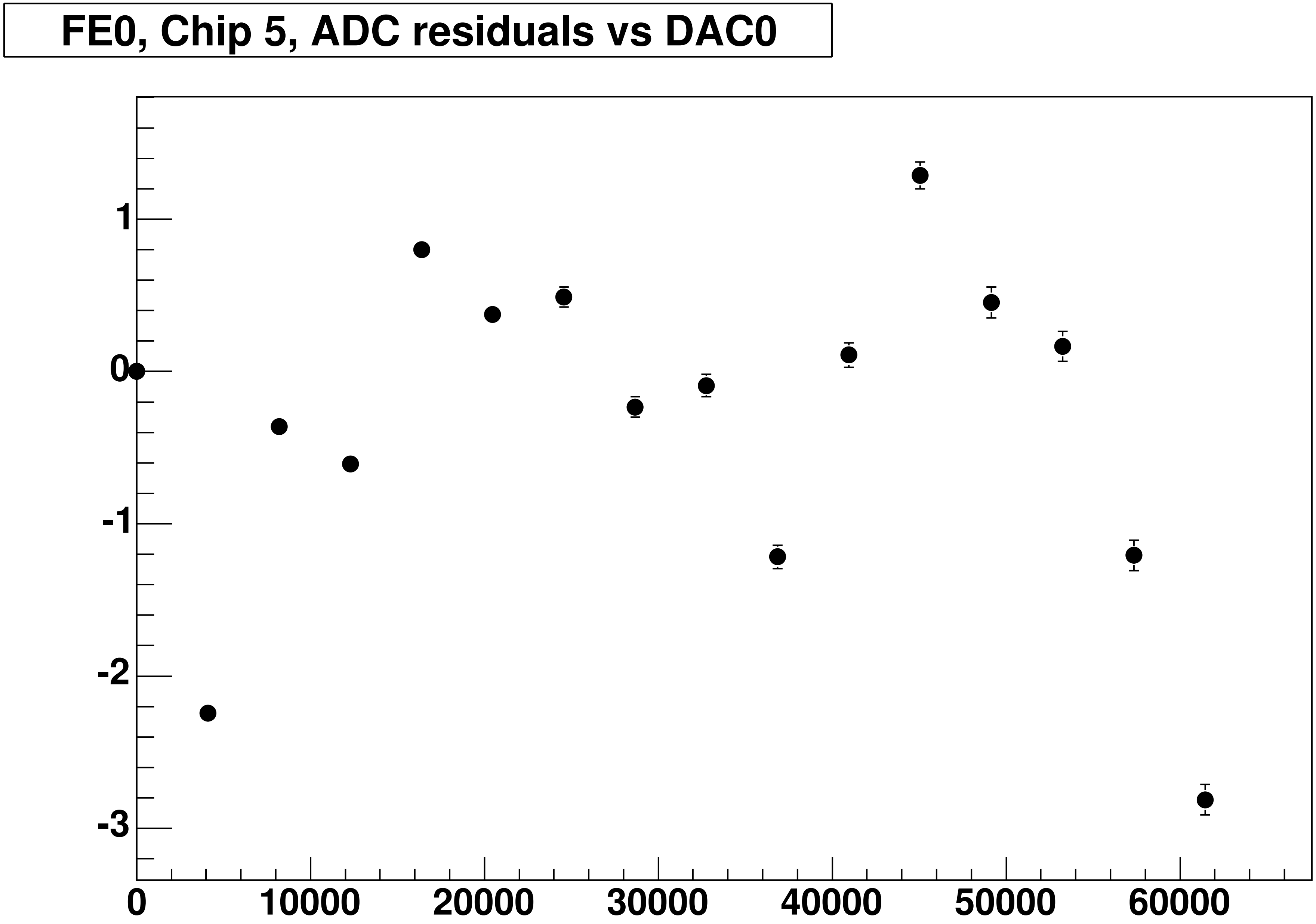


FE0, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

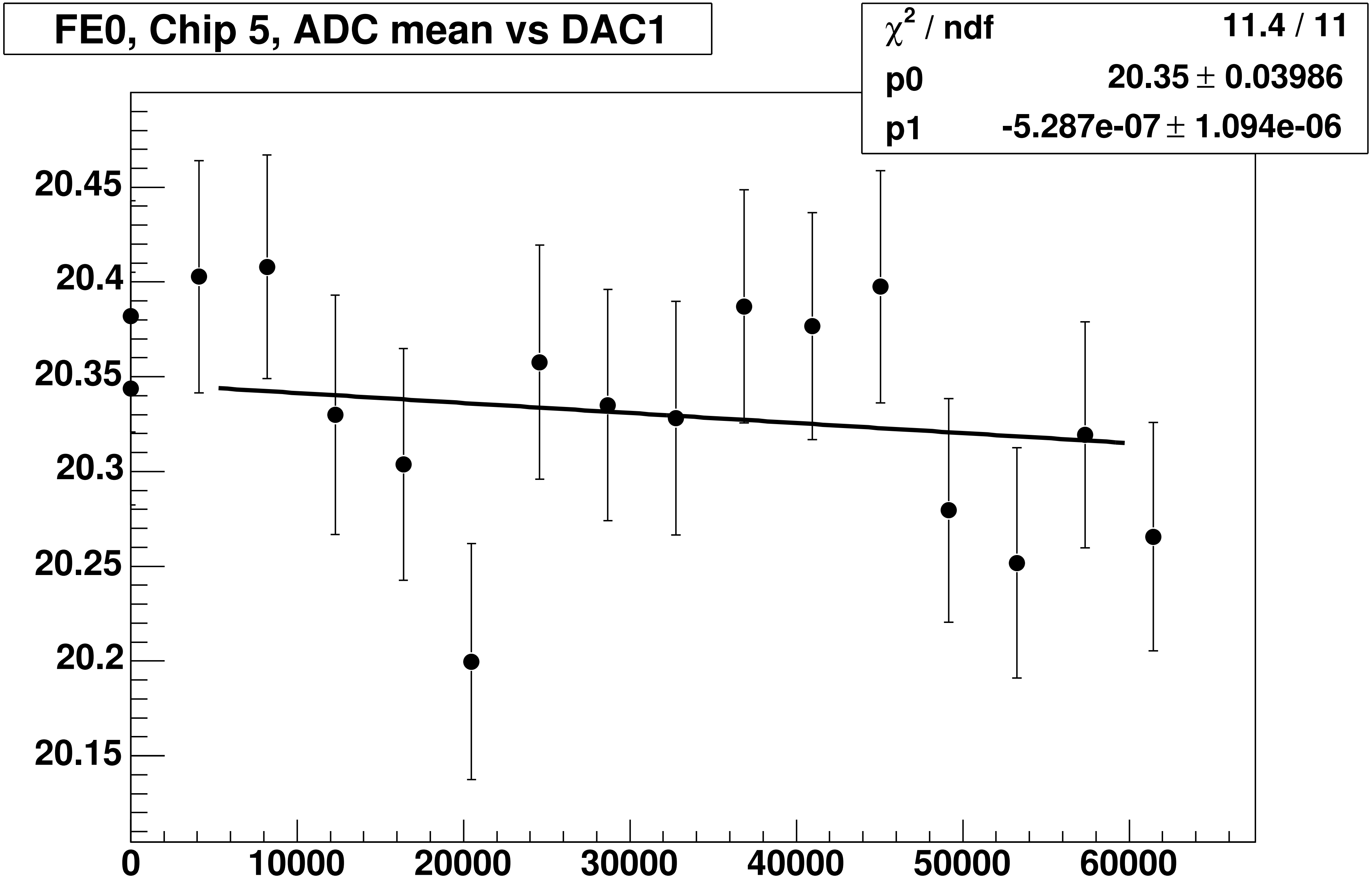

FE0, Chip 4, ADC residuals vs DAC1
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE0, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1056 / 11
p0 23.87 ± 0.04299
p1 0.4506 ± 1.396e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

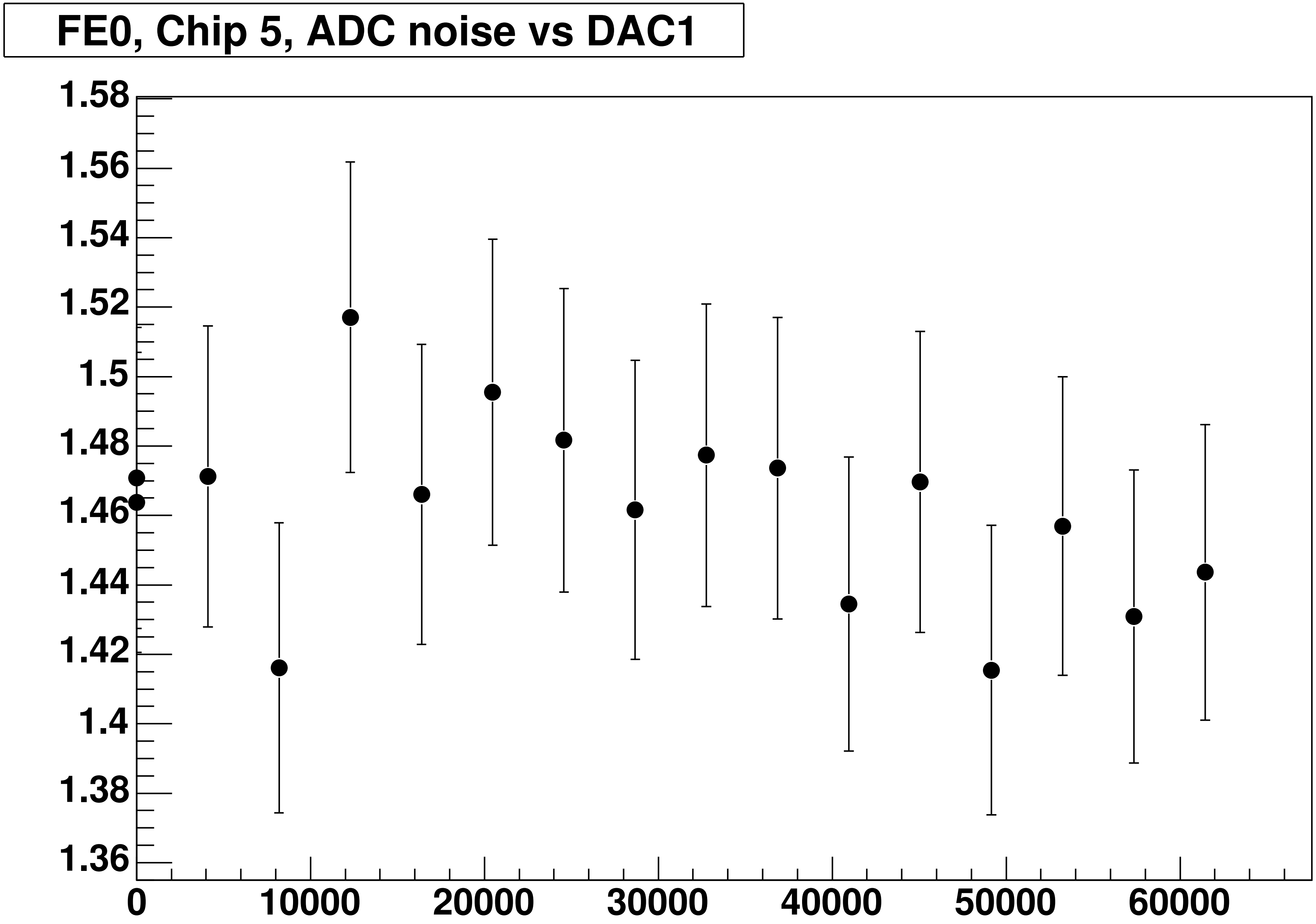

FE0, Chip 5, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



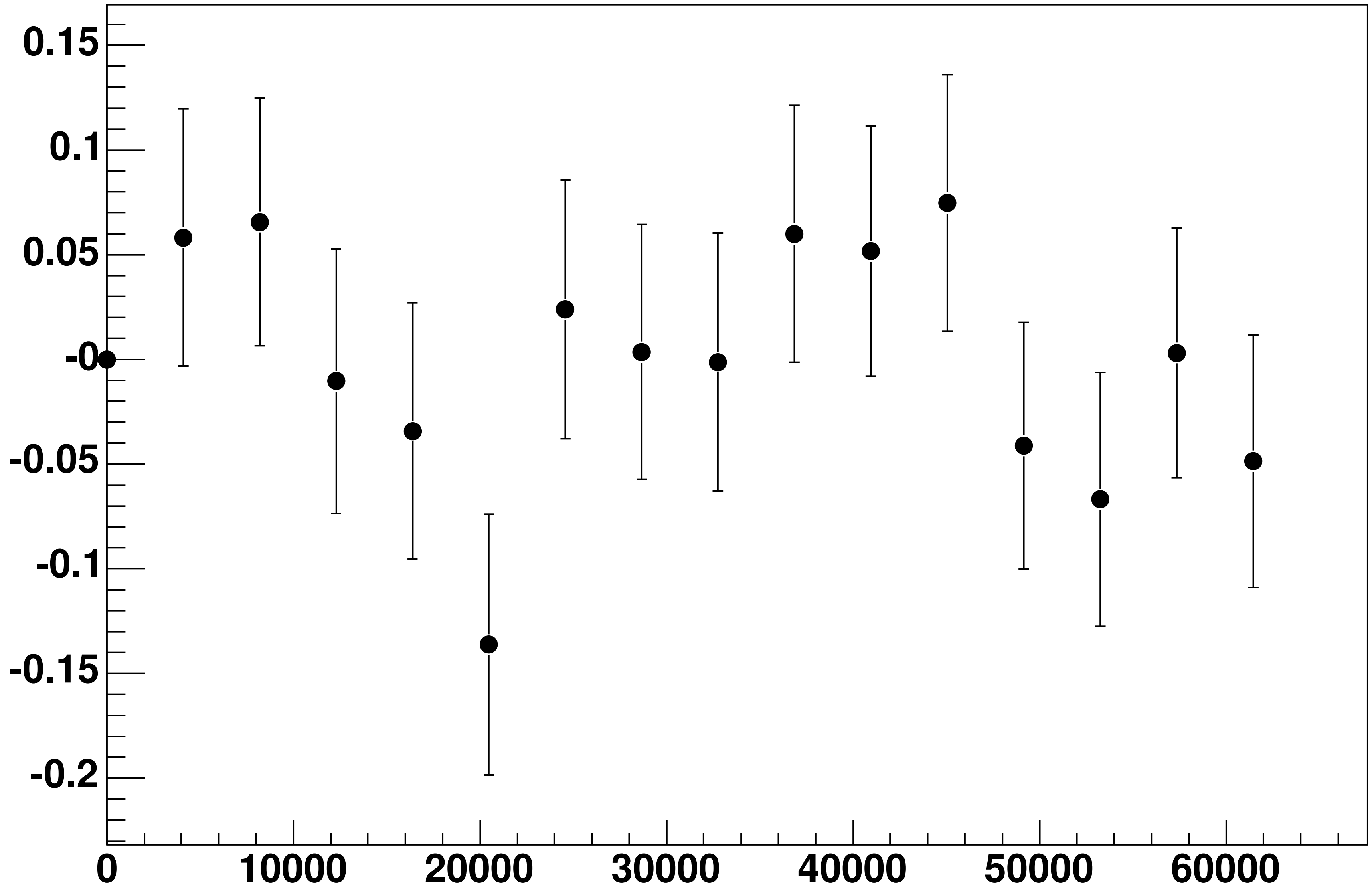
FE0, Chip 5, ADC residuals vs DAC0
1
0
-1
-2
-3
0
10000
20000
30000
40000
50000
60000

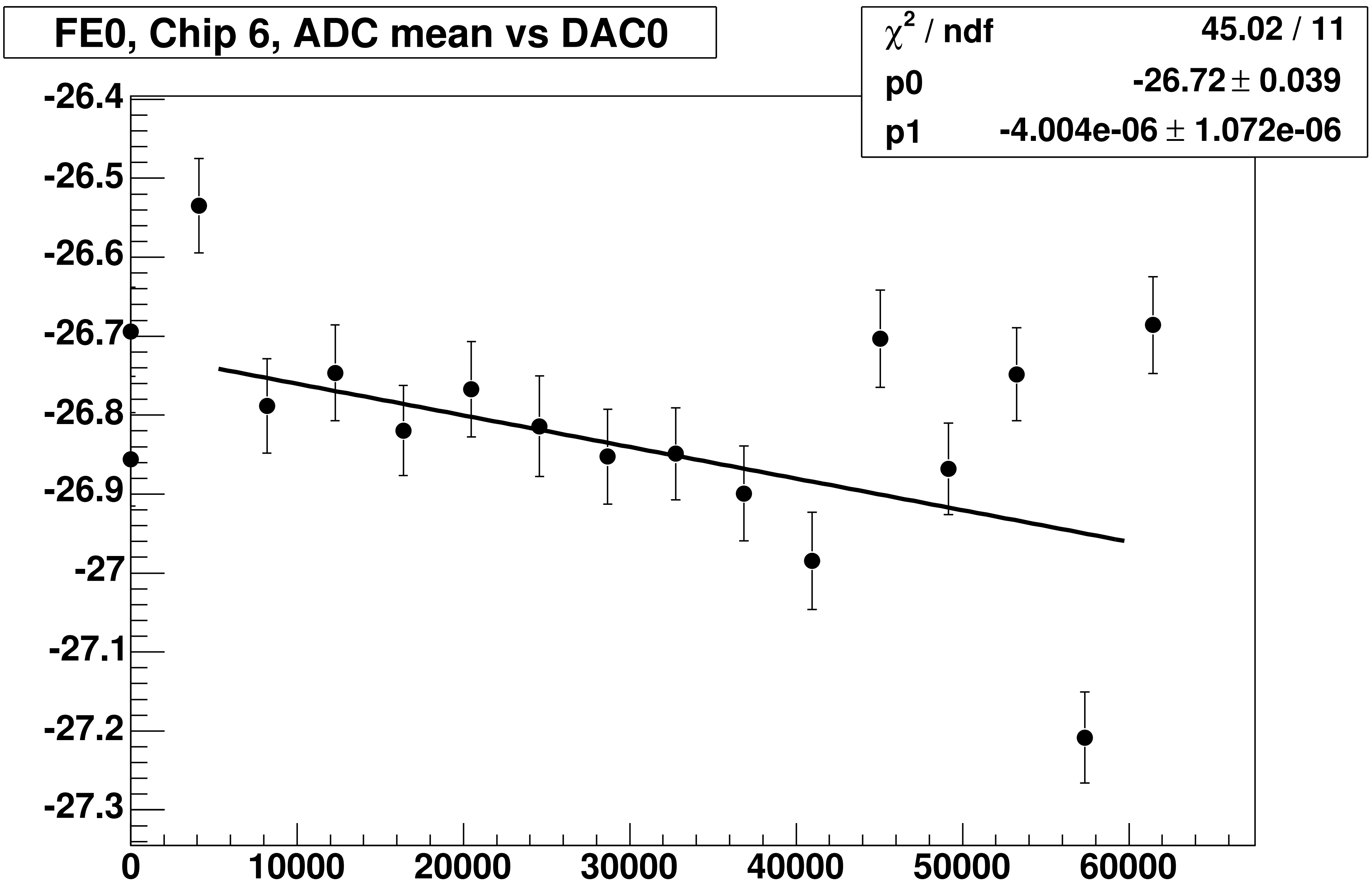


FE0, Chip 5, ADC mean vs DAC1
χ^2 / ndf 11.4 / 11
p0 20.35 ± 0.03986
p1 -5.287e-07 ± 1.094e-06
20.45
20.4
20.35
20.3
20.25
20.2
20.15
0
10000
20000
30000
40000
50000
60000

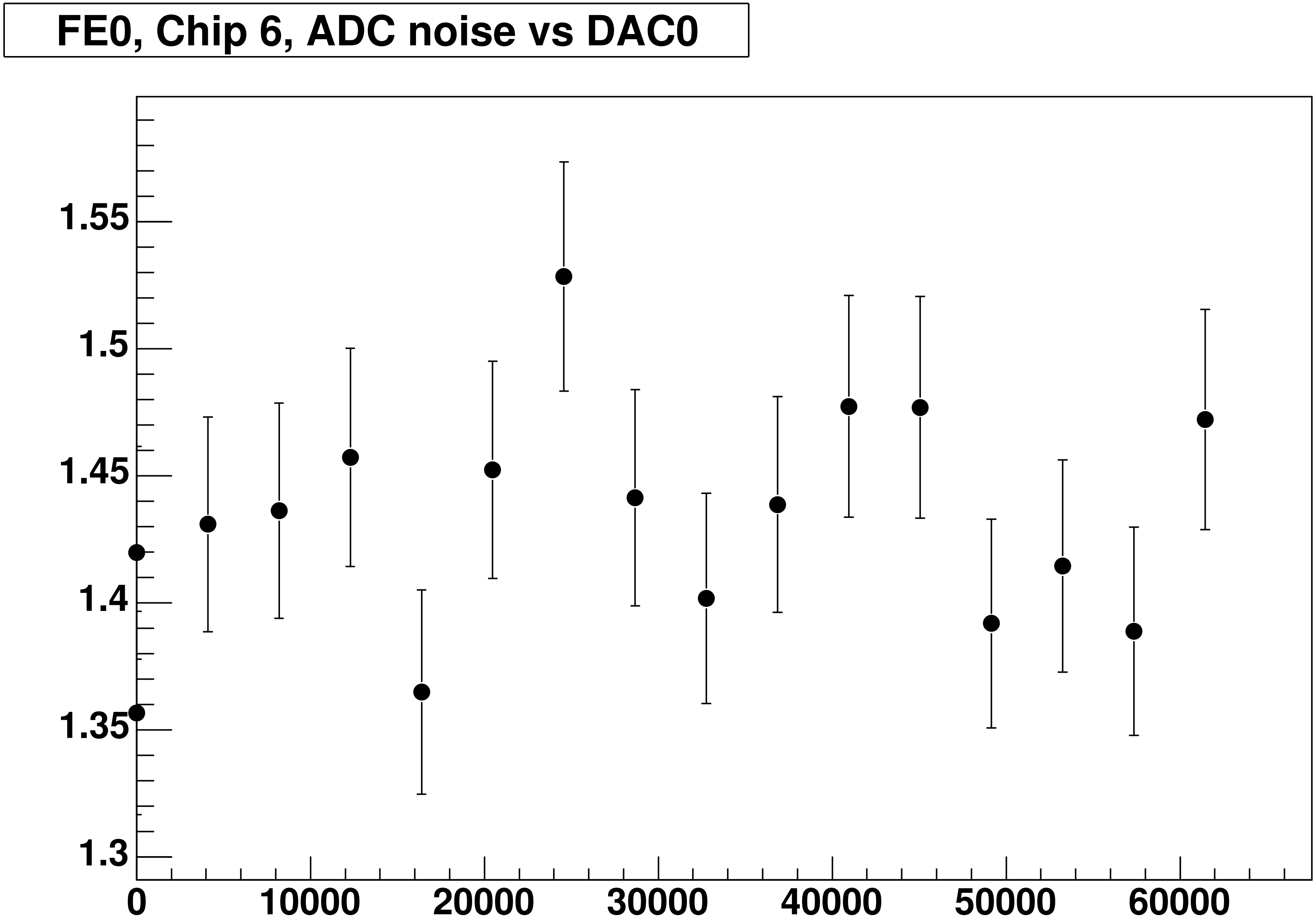

FE0, Chip 5, ADC noise vs DAC1
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
0
10000
20000
30000
40000
50000
60000

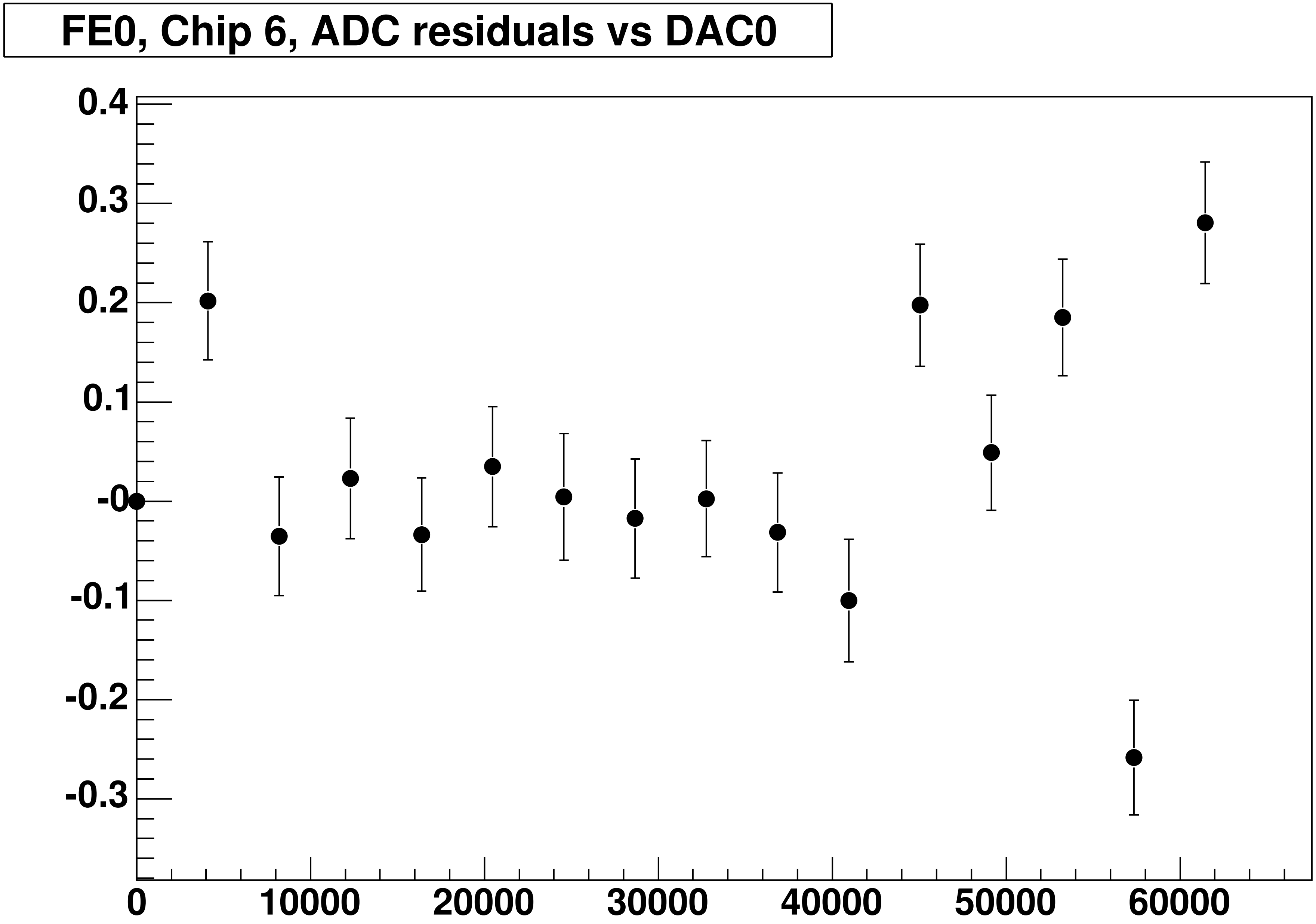
FE0, Chip 5, ADC residuals vs DAC1

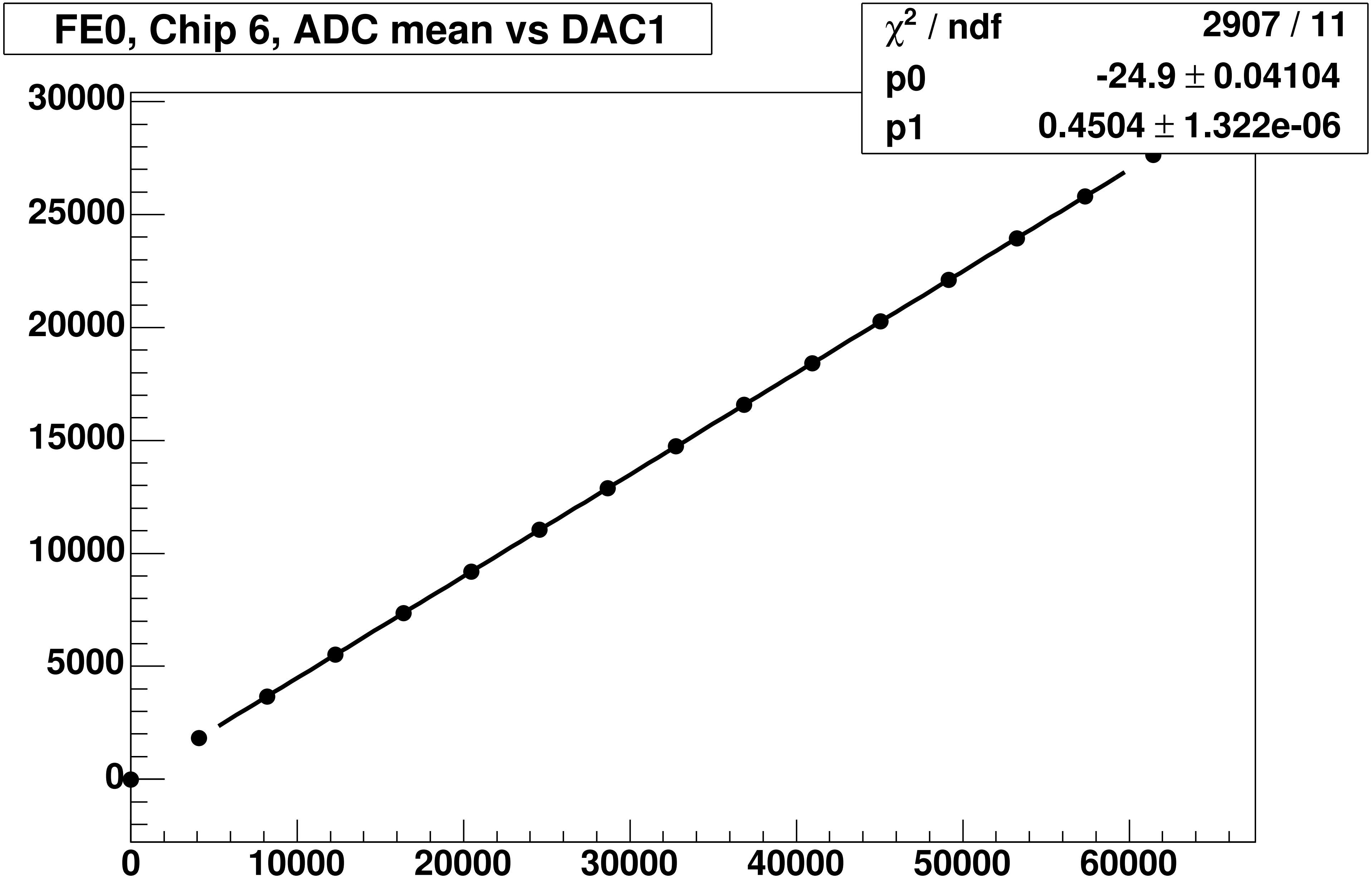




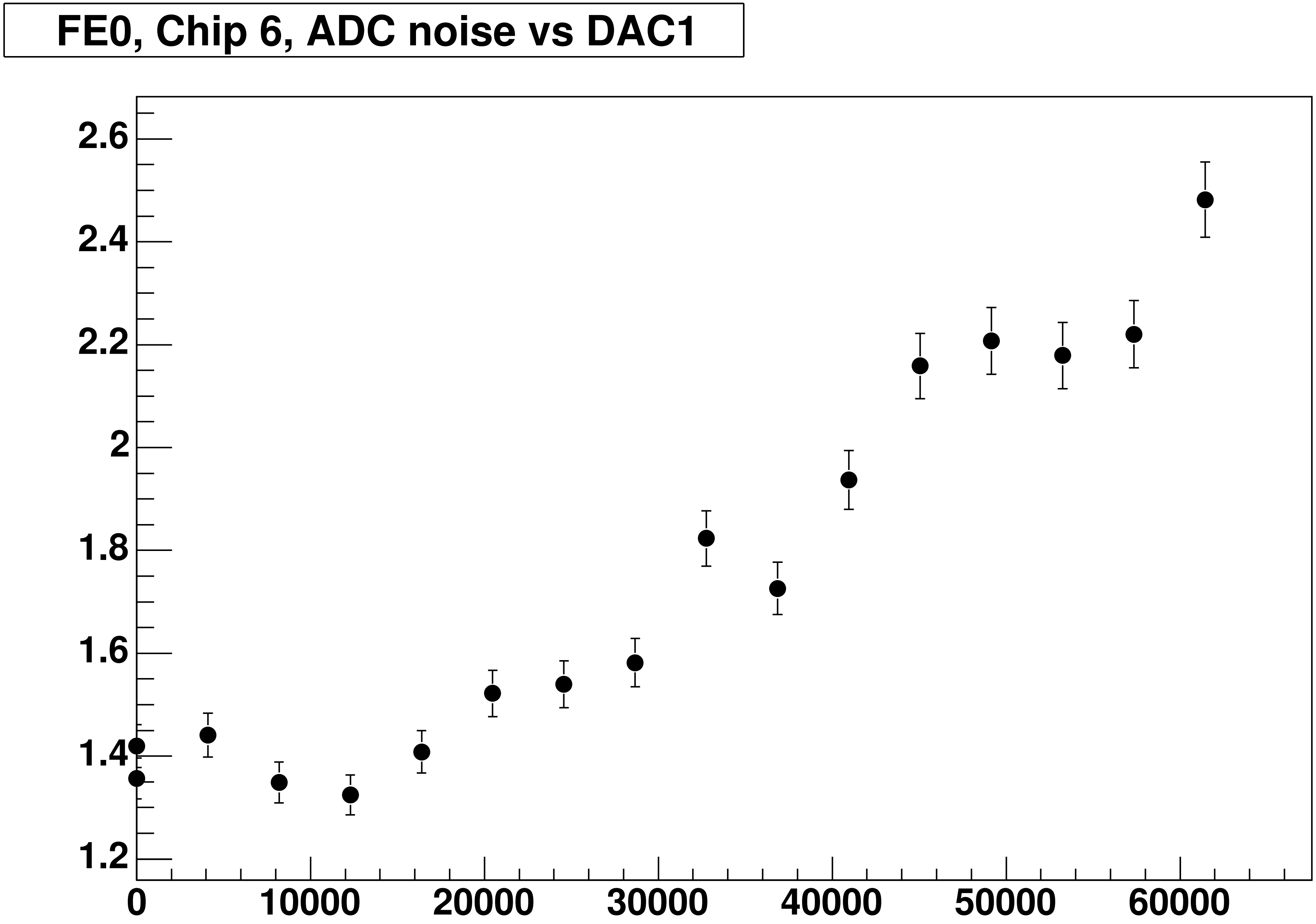
FE0, Chip 6, ADC mean vs DAC0
χ^2 / ndf 45.02 / 11
p0 -26.72 ± 0.039
p1 -4.004e-06 ± 1.072e-06
-26.4
-26.5
-26.6
-26.7
-26.8
-26.9
-27
-27.1
-27.2
-27.3
0
10000
20000
30000
40000
50000
60000


FE0, Chip 6, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

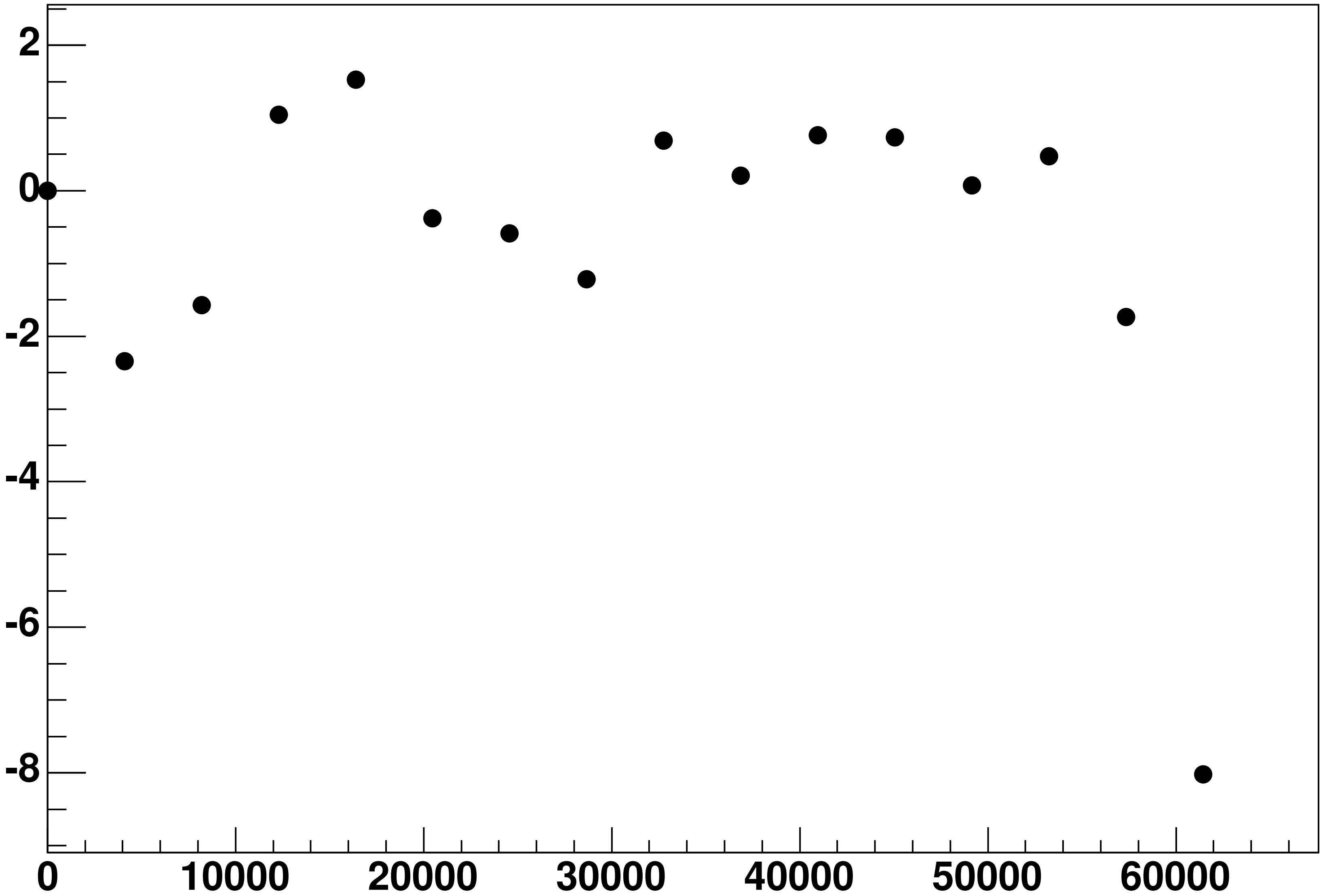

FE0, Chip 6, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

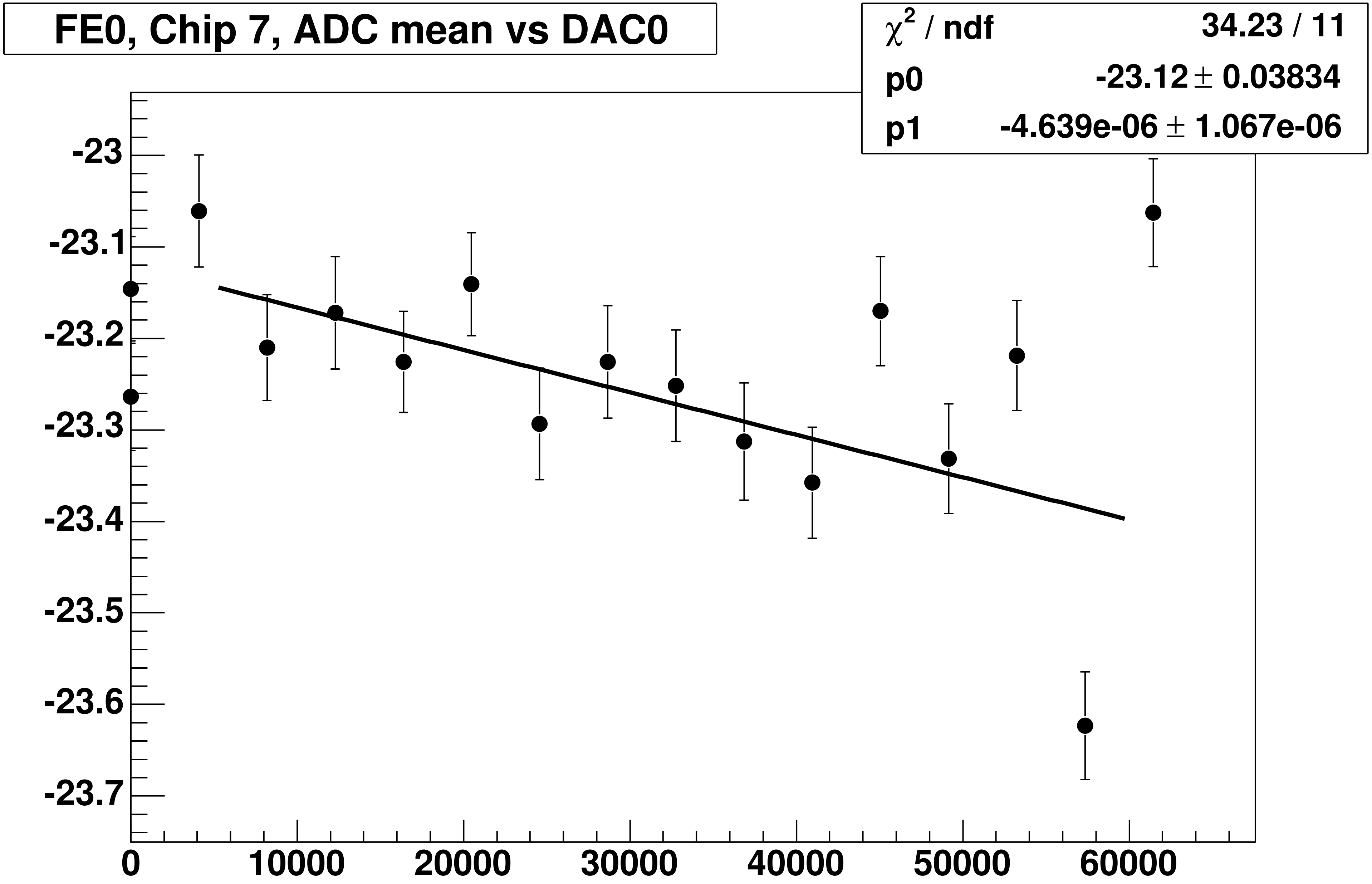


FE0, Chip 6, ADC mean vs DAC1
χ^2 / ndf 2907 / 11
p0 -24.9 ± 0.04104
p1 0.4504 ± 1.322e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

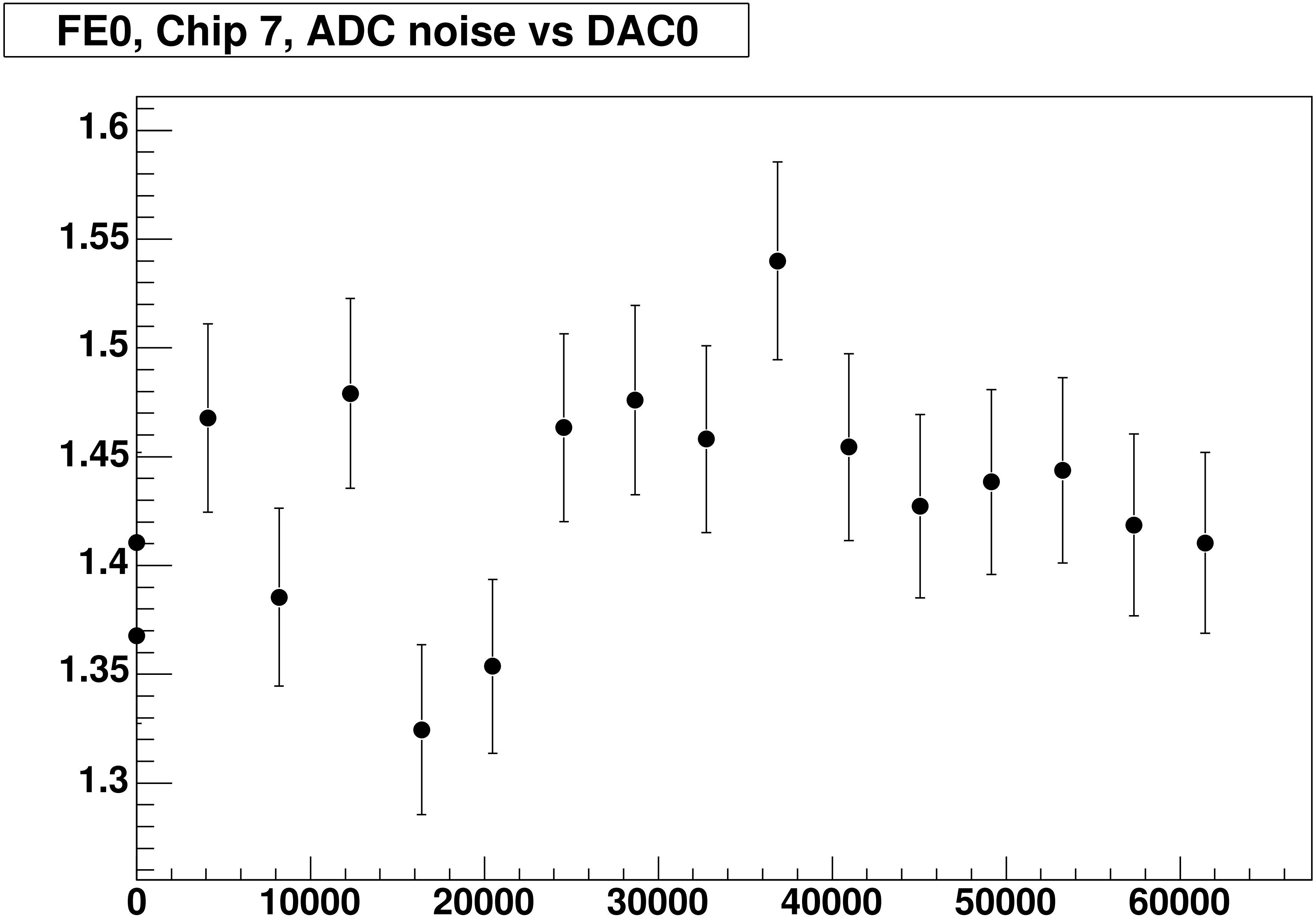

FE0, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

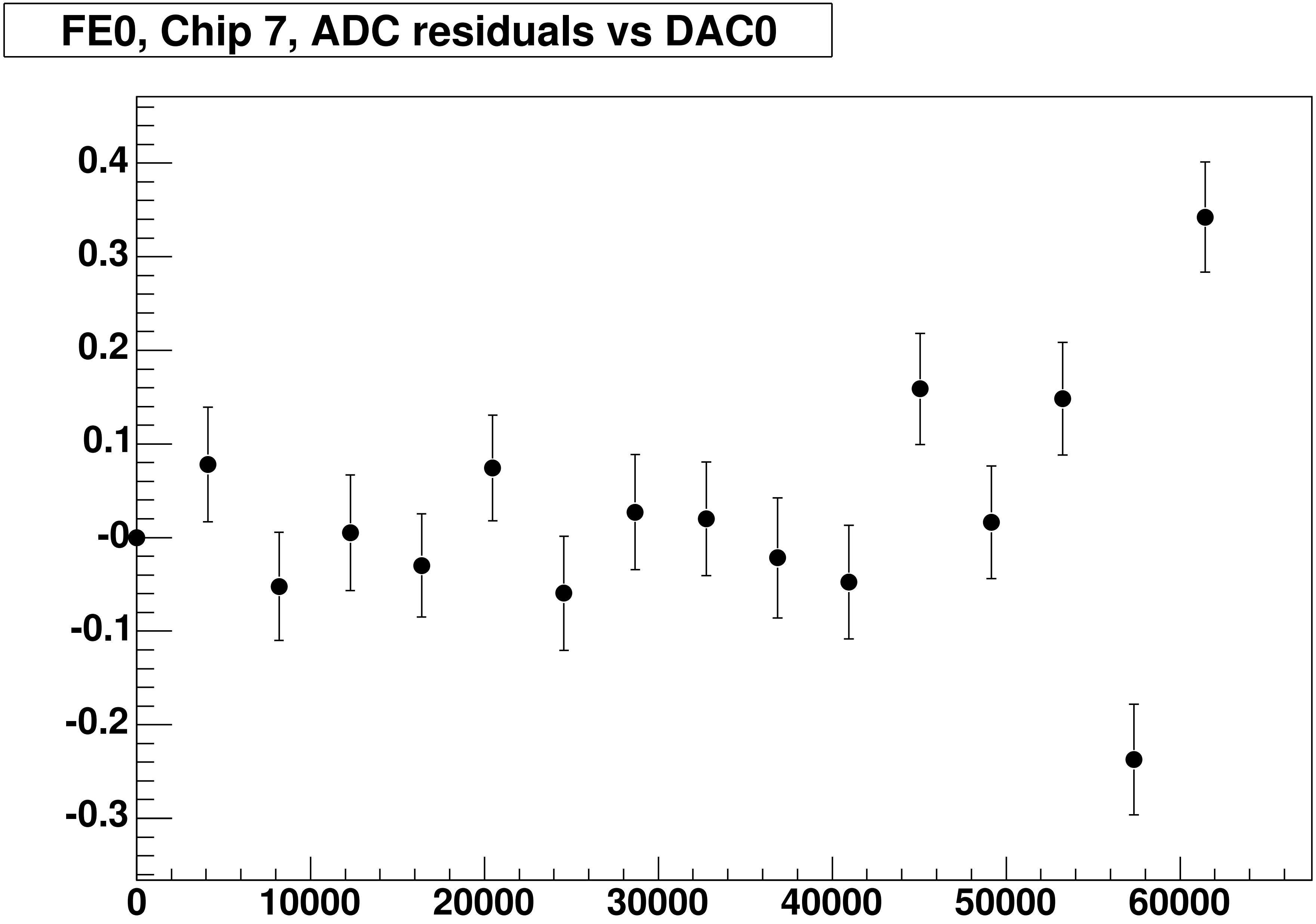
FE0, Chip 6, ADC residuals vs DAC1

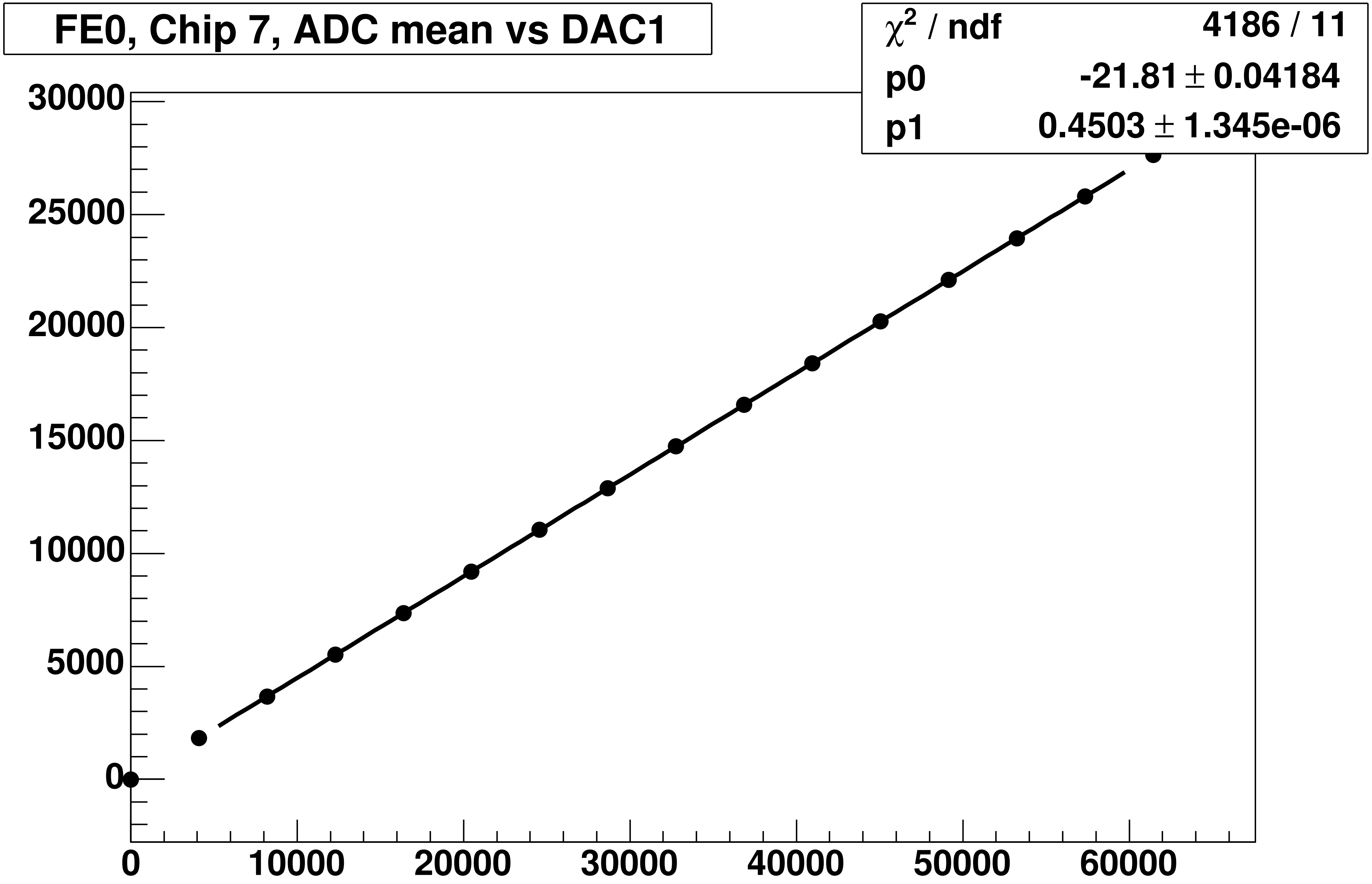


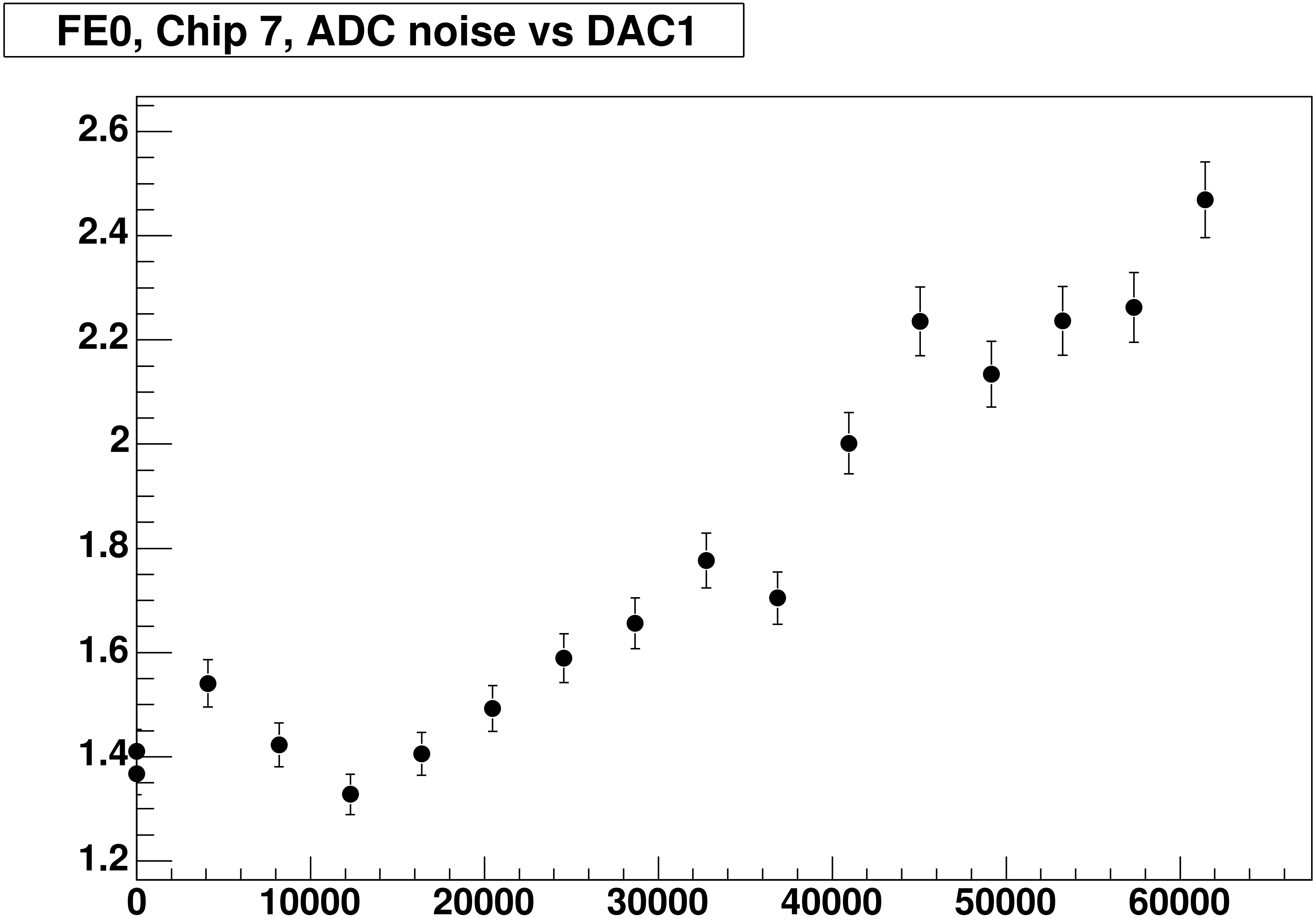


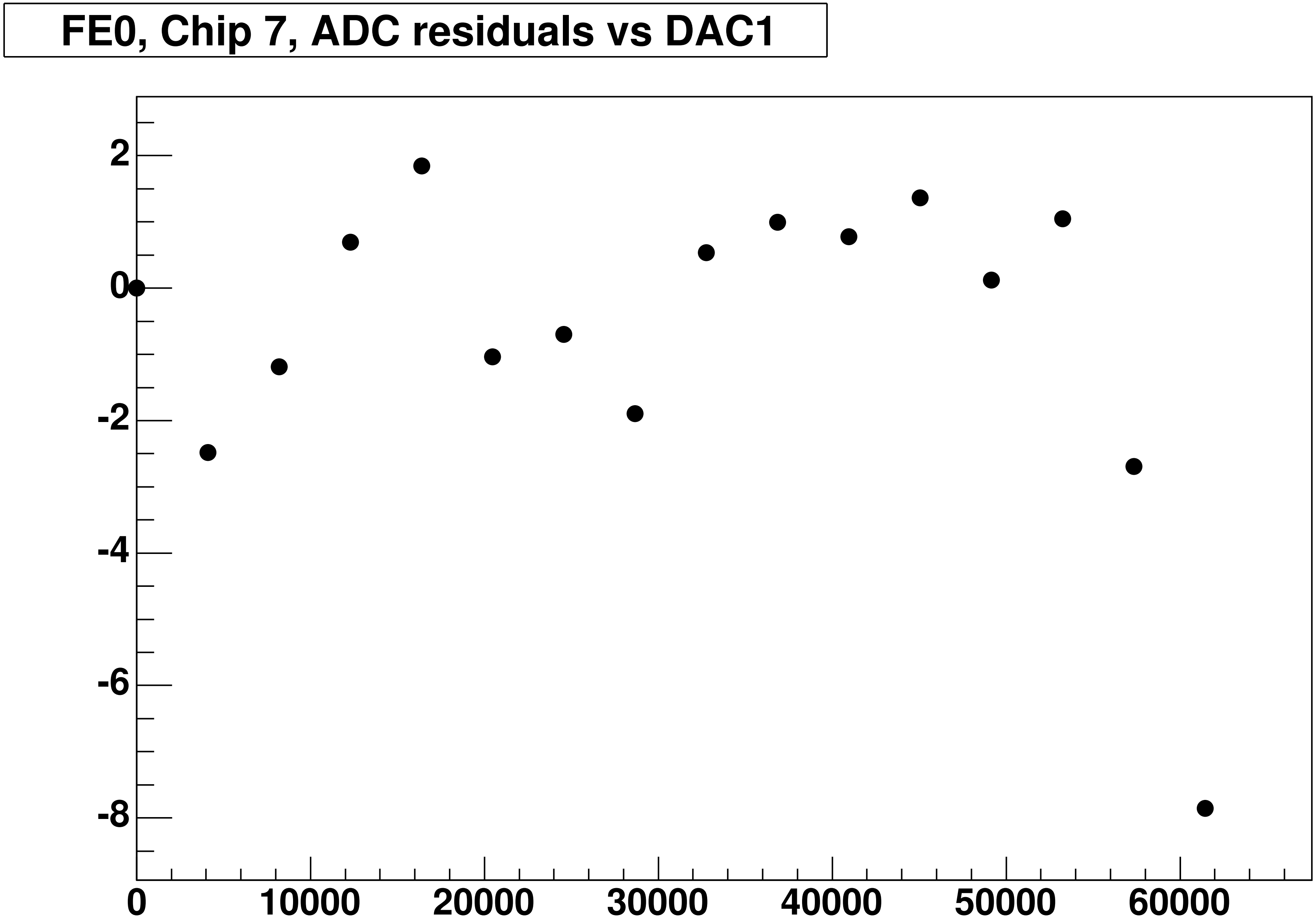
FE0, Chip 7, ADC mean vs DAC0
χ^2 / ndf 34.23 / 11
p0 -23.12 ± 0.03834
p1 -4.639e-06 ± 1.067e-06
-23
-23.1
-23.2
-23.3
-23.4
-23.5
-23.6
-23.7
0
10000
20000
30000
40000
50000
60000

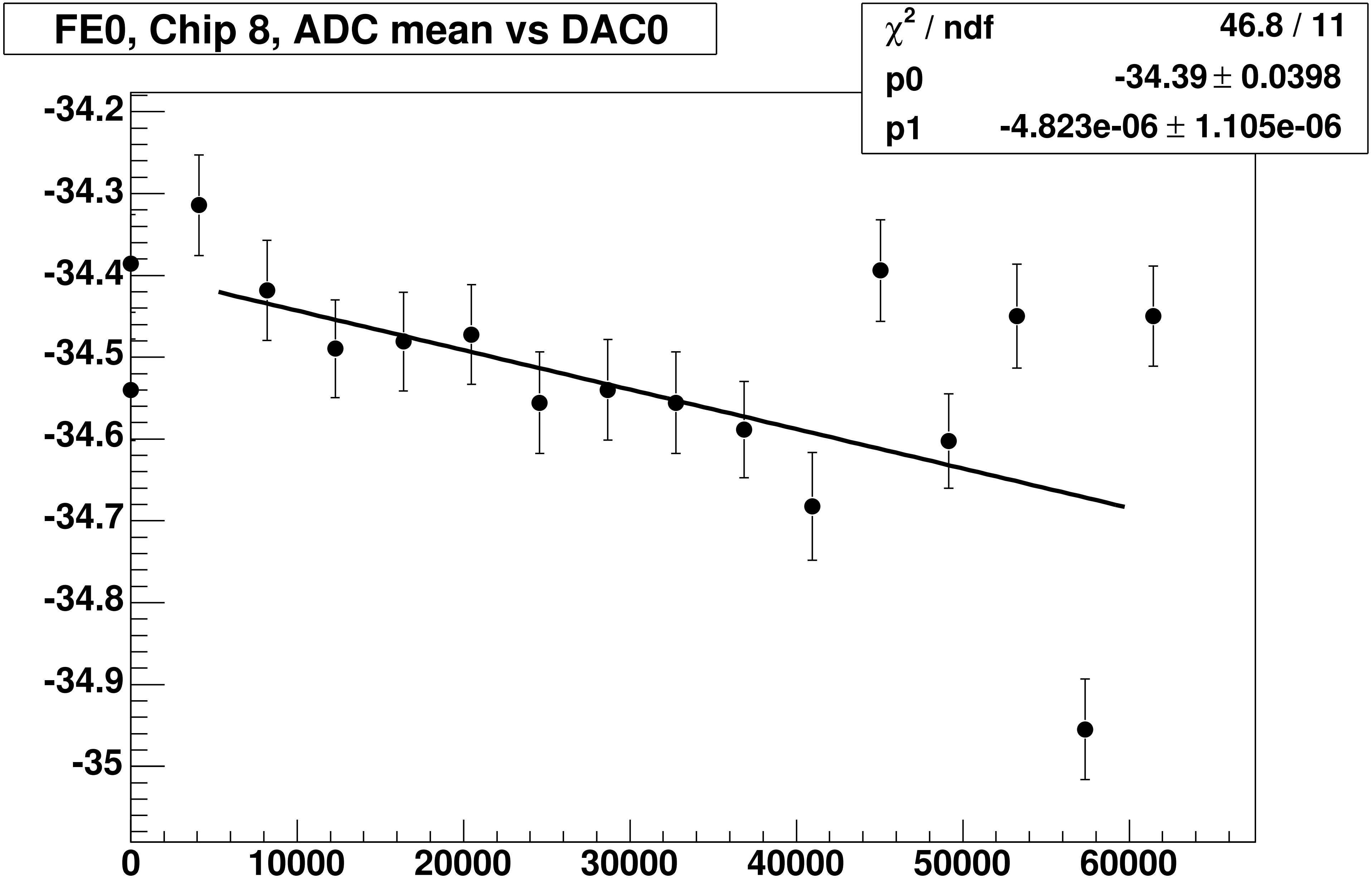

FE0, Chip 7, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

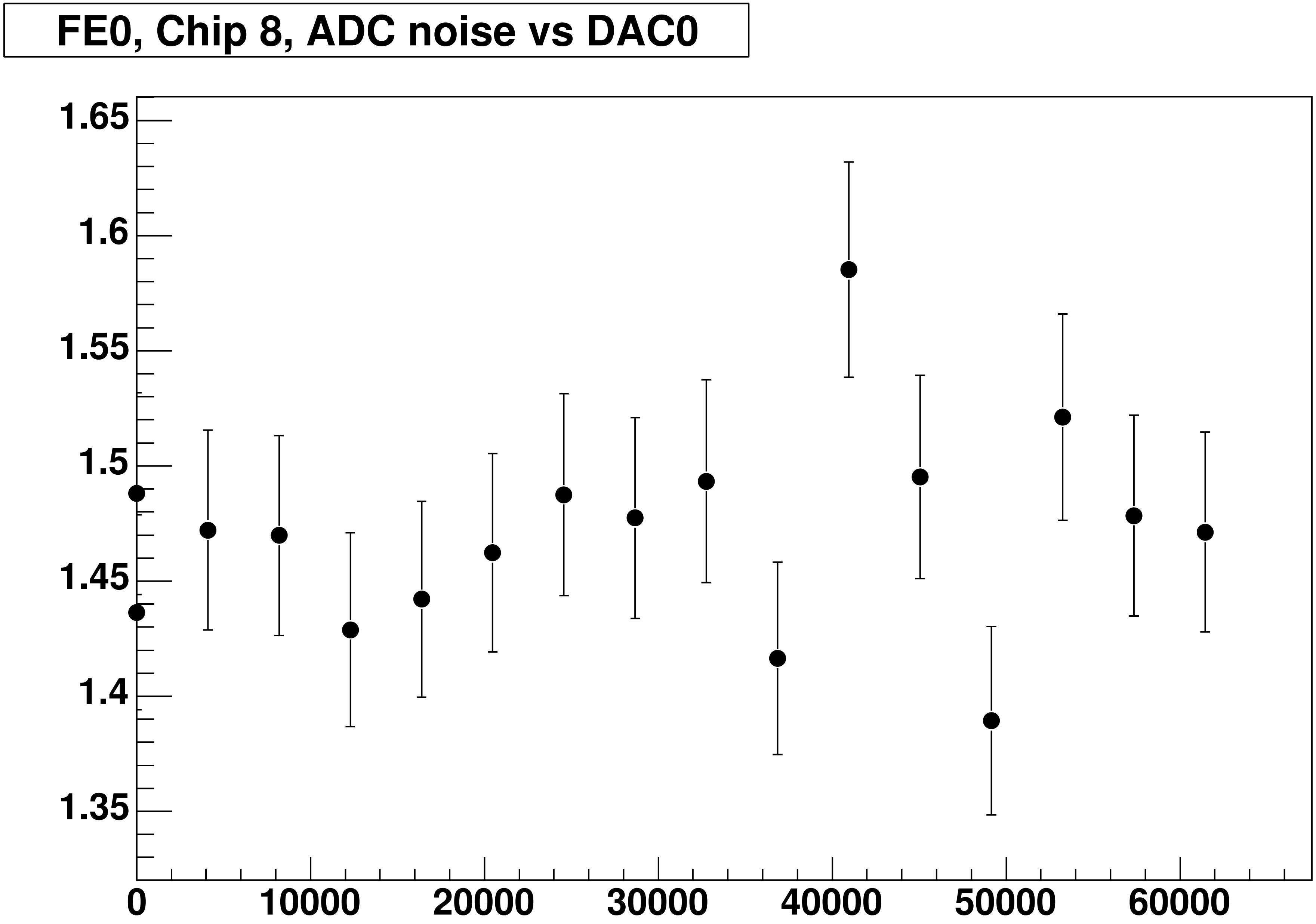

FE0, Chip 7, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

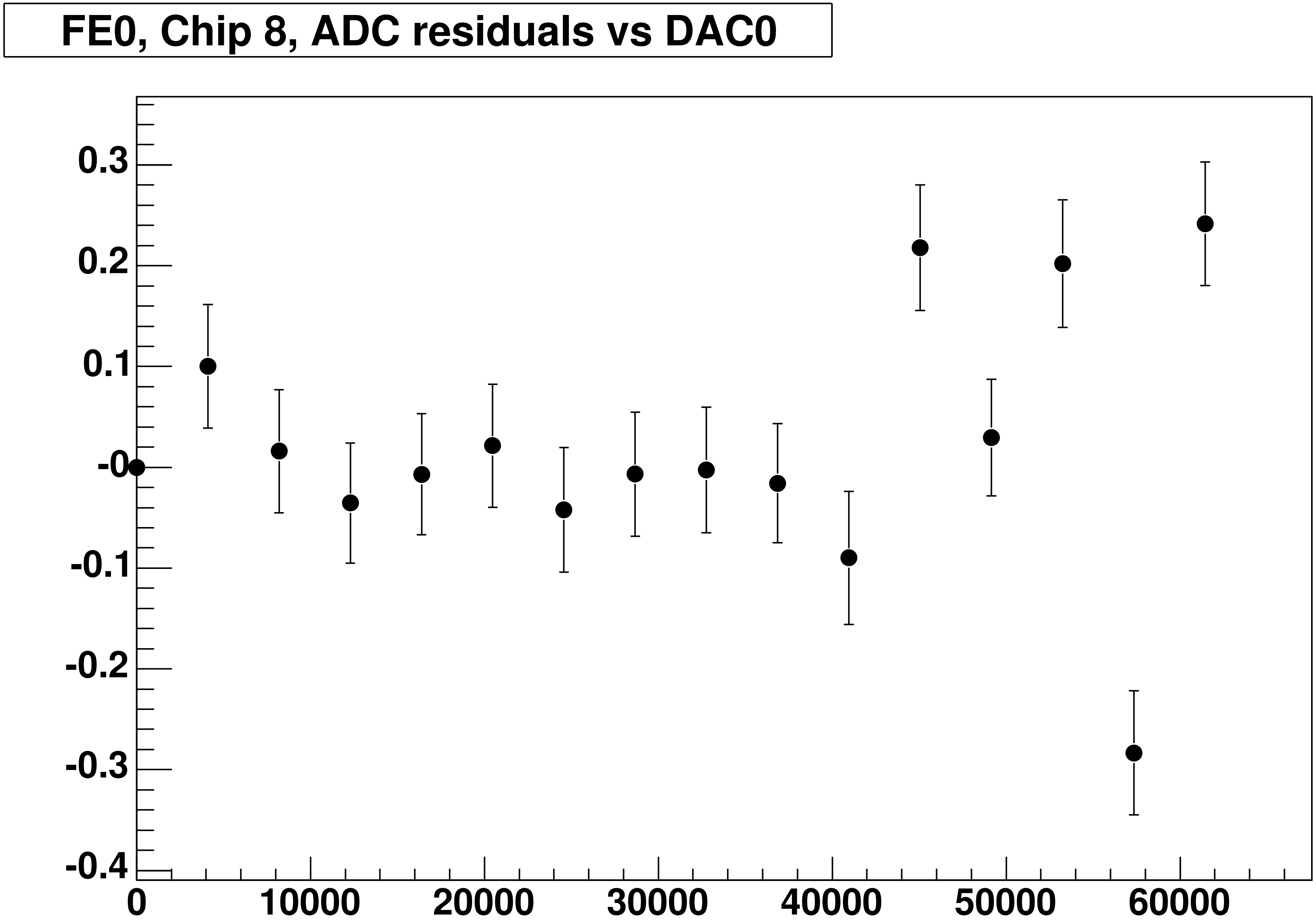

FE0, Chip 7, ADC mean vs DAC1
χ^2 / ndf 4186 / 11
p0 -21.81 ± 0.04184
p1 0.4503 ± 1.345e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

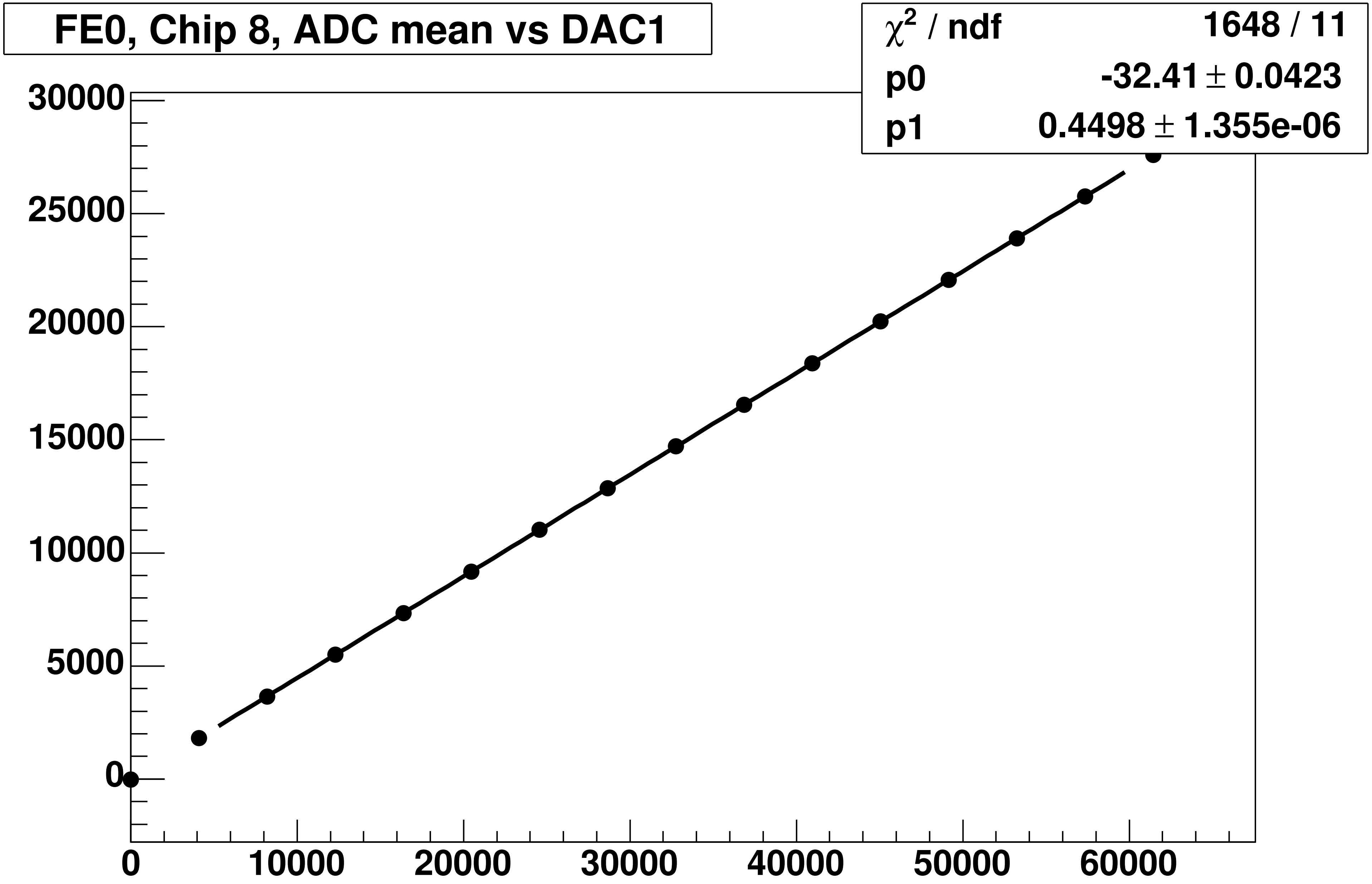

FE0, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000


FE0, Chip 8, ADC mean vs DAC0
χ2 / ndf 46.8 / 11
p0 -34.39 ± 0.0398
p1 -4.823e-06 ± 1.105e-06
-34.2
-34.3
-34.4
-34.5
-34.6
-34.7
-34.8
-34.9
-35
0
10000
20000
30000
40000
50000
60000

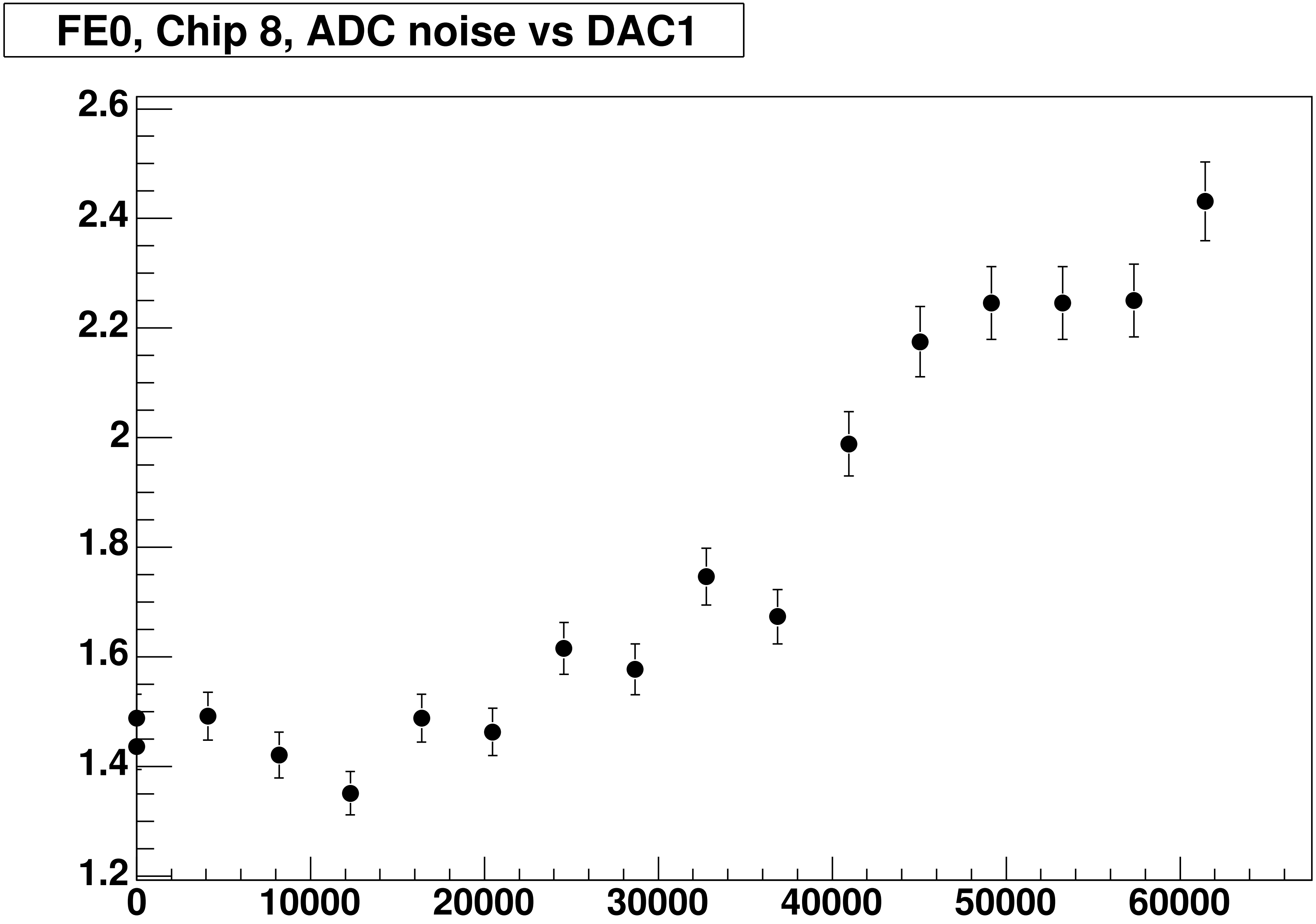

FE0, Chip 8, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

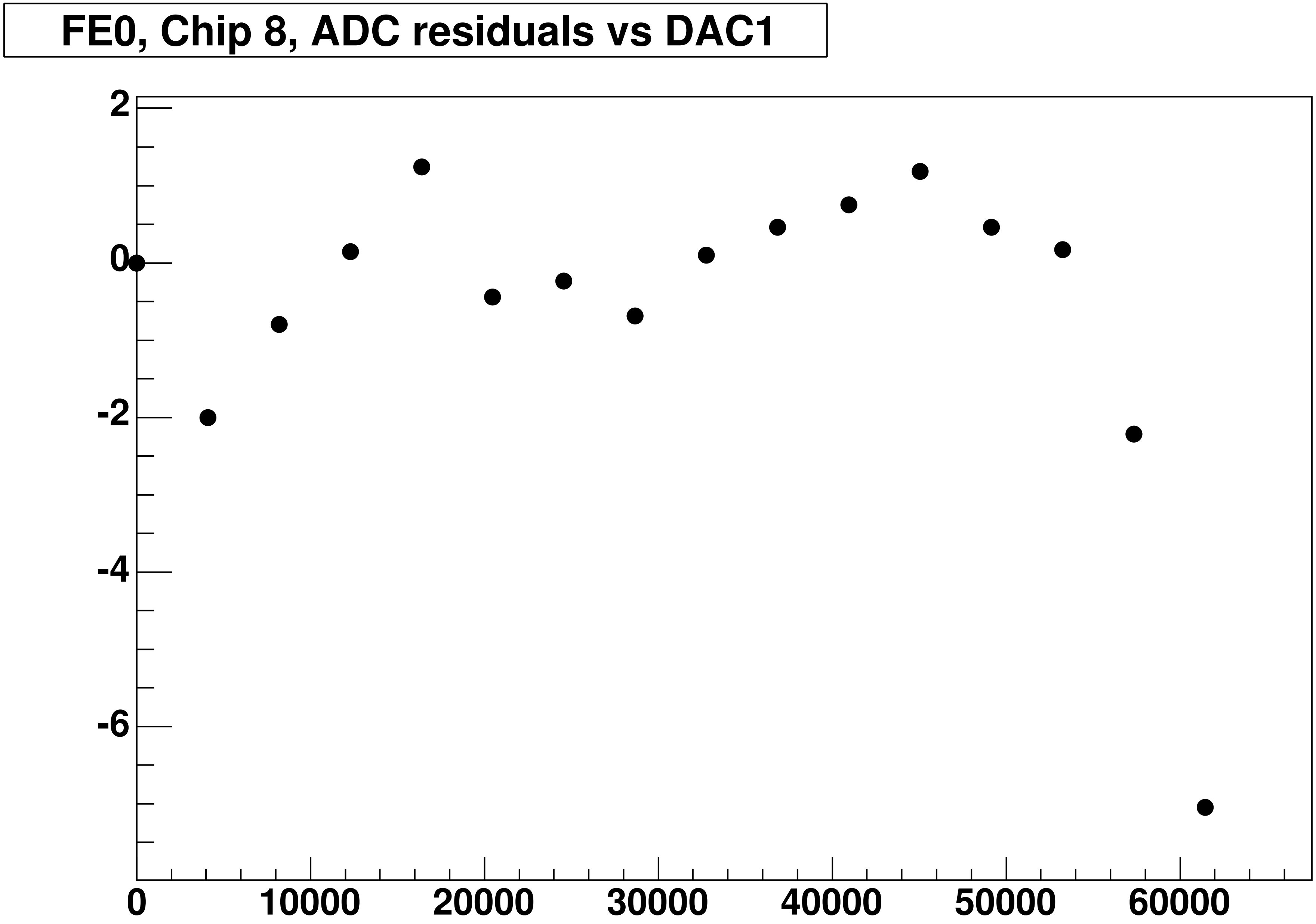


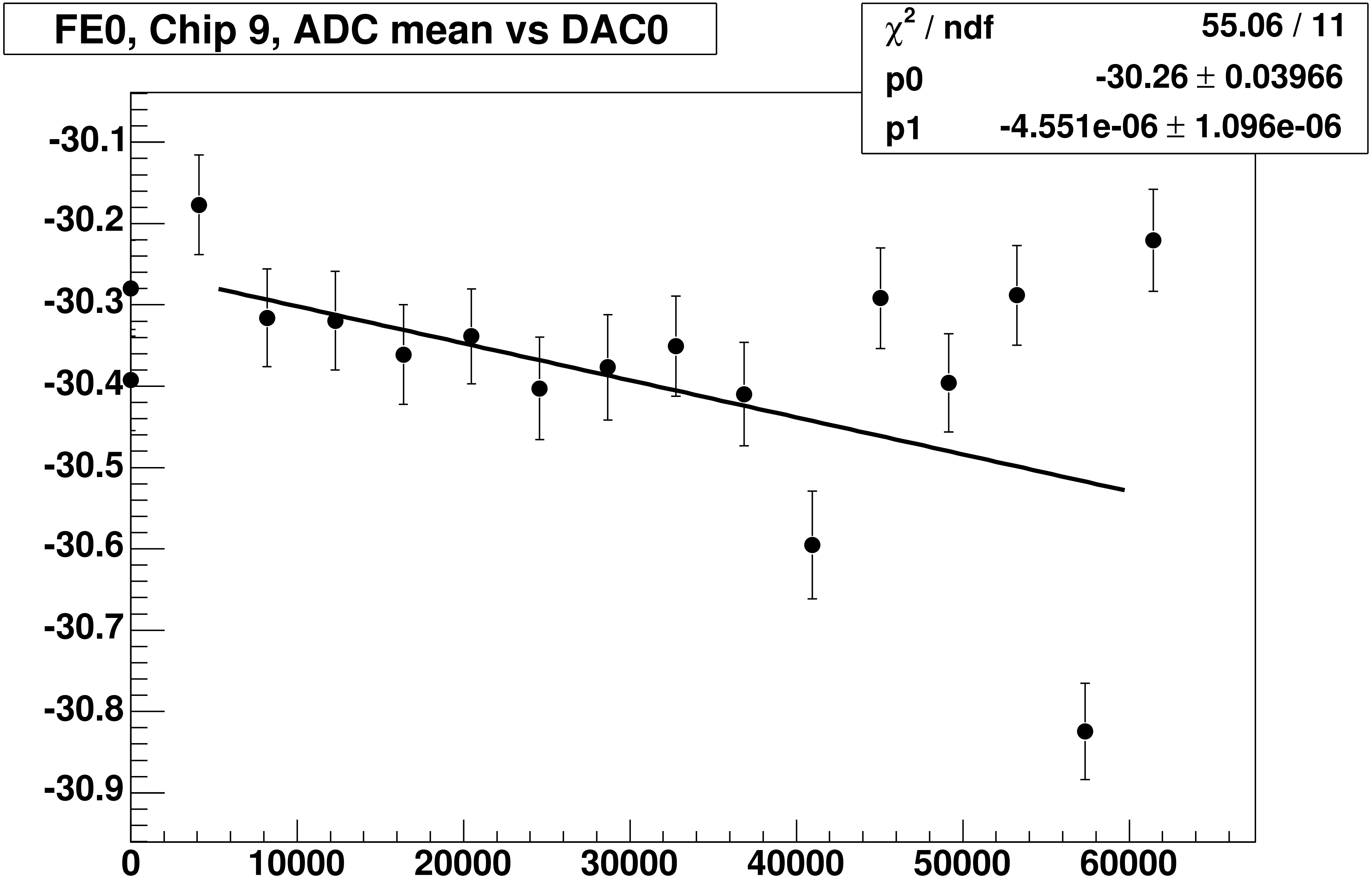
FE0, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000



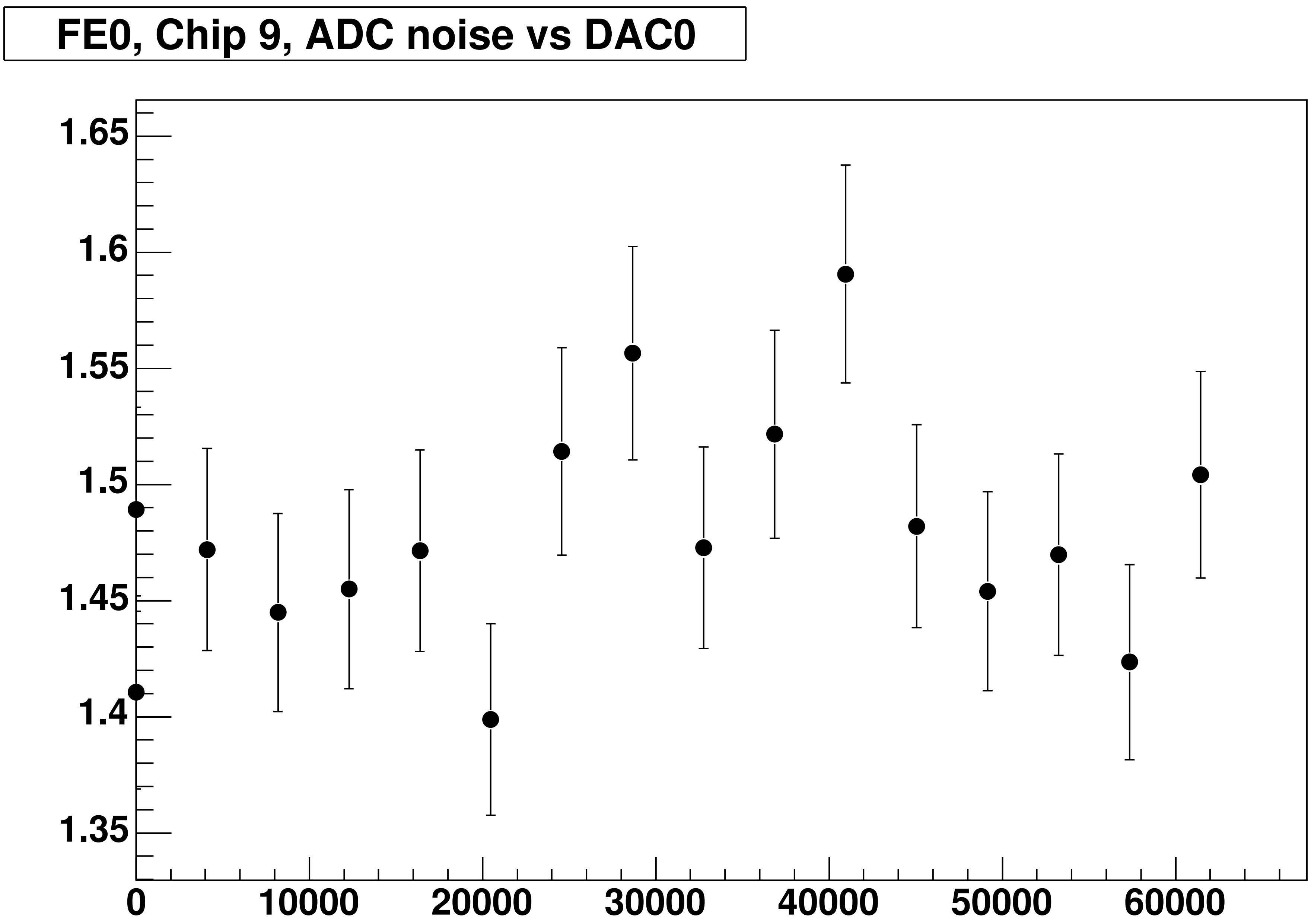
FE0, Chip 8, ADC mean vs DAC1
χ2 / ndf 1648 / 11
p0 -32.41 ± 0.0423
p1 0.4498 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

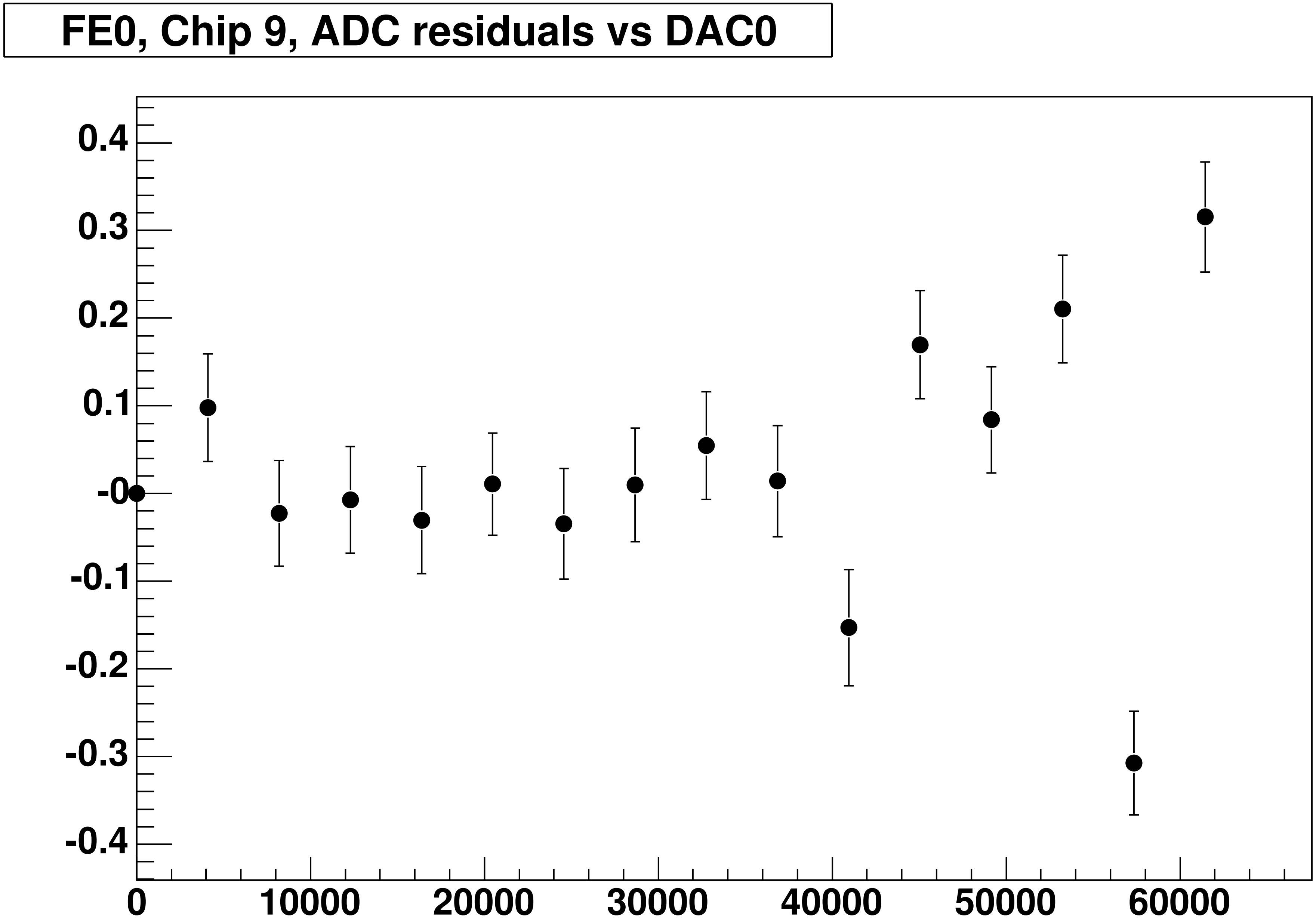

FE0, Chip 8, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

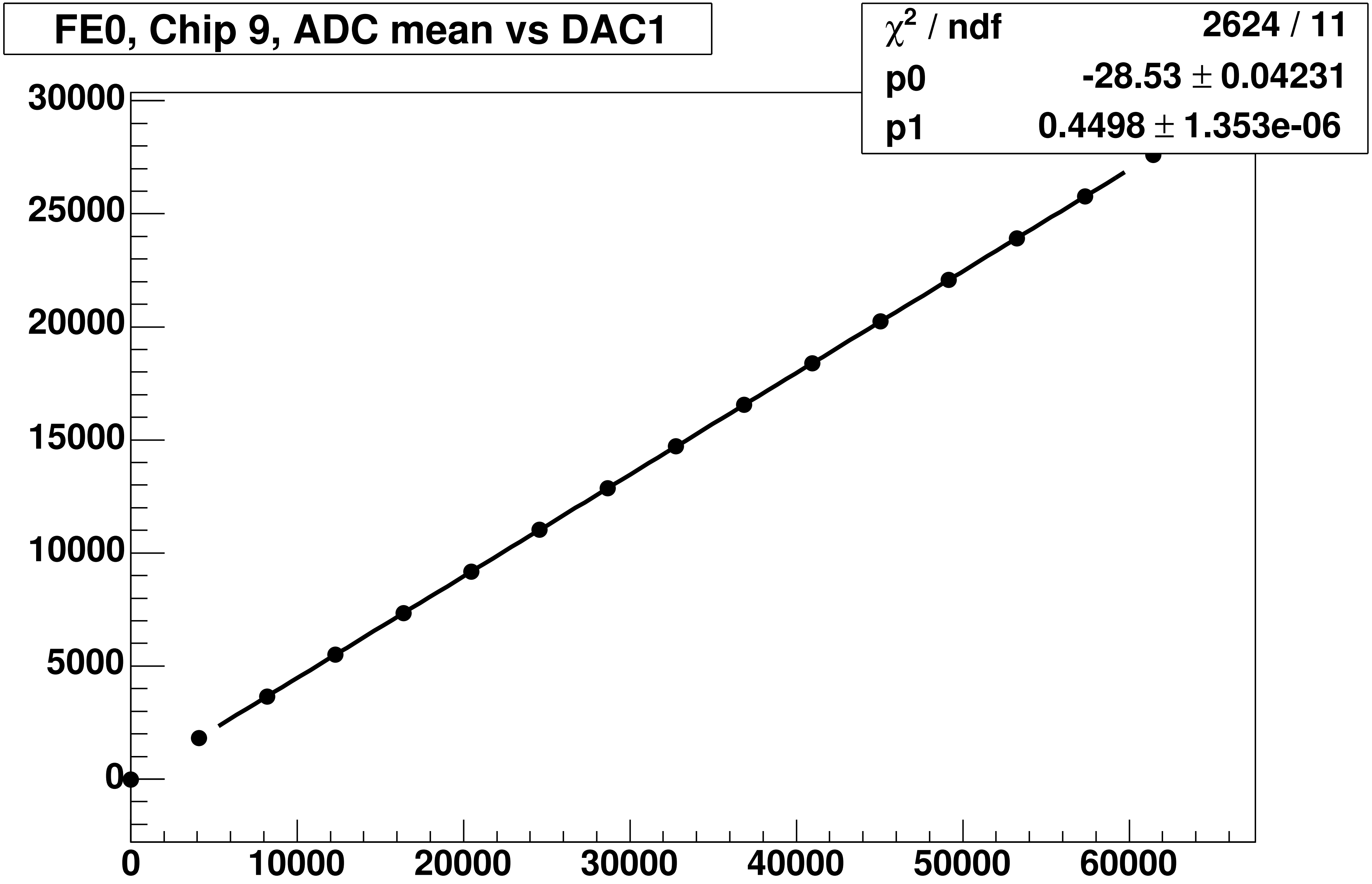


FE0, Chip 9, ADC mean vs DAC0
χ² / ndf 55.06 / 11
p0 -30.26 ± 0.03966
p1 -4.551e-06 ± 1.096e-06
-30.1
-30.2
-30.3
-30.4
-30.5
-30.6
-30.7
-30.8
-30.9
0
10000
20000
30000
40000
50000
60000

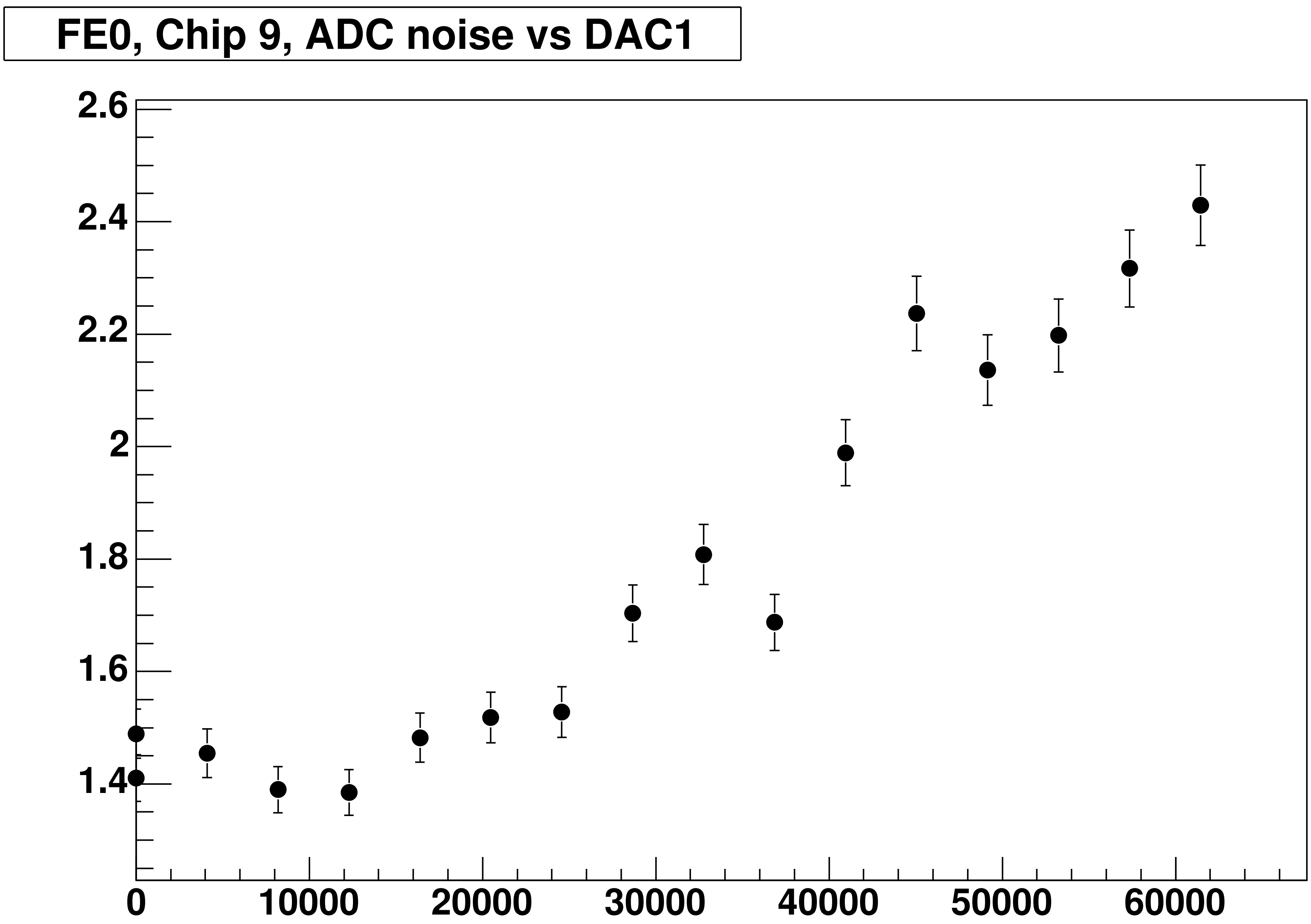


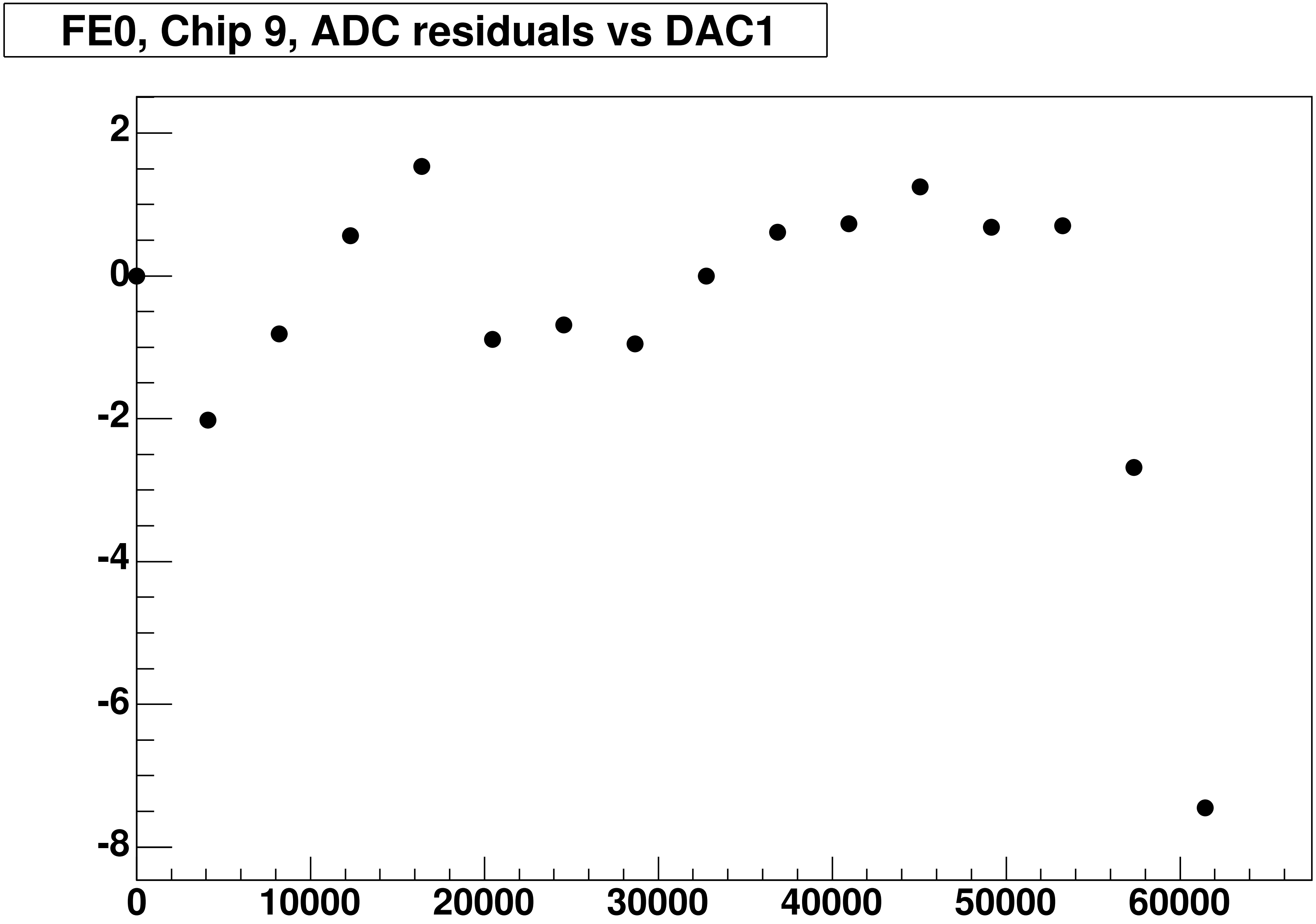
FE0, Chip 9, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

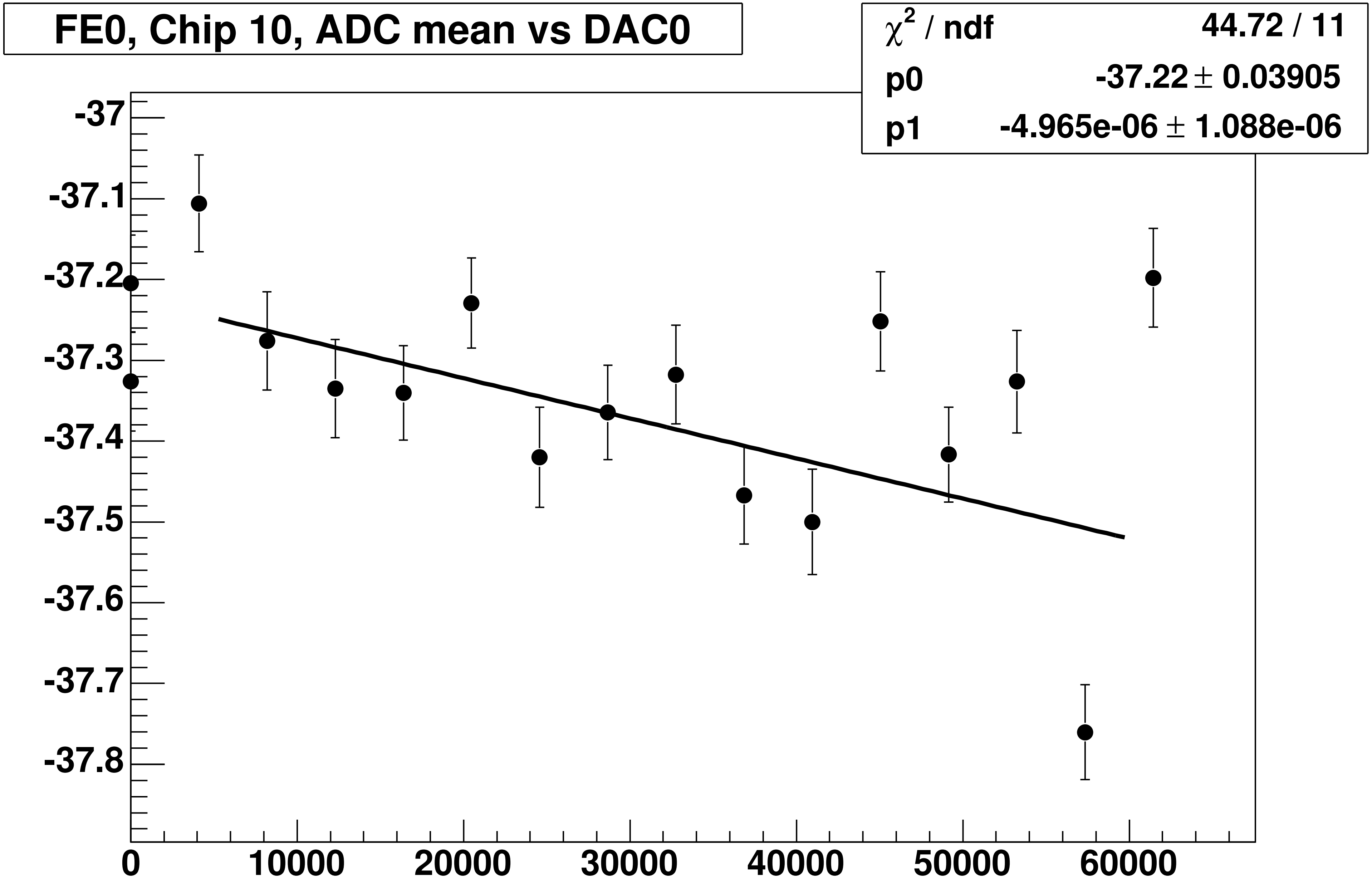

FE0, Chip 9, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

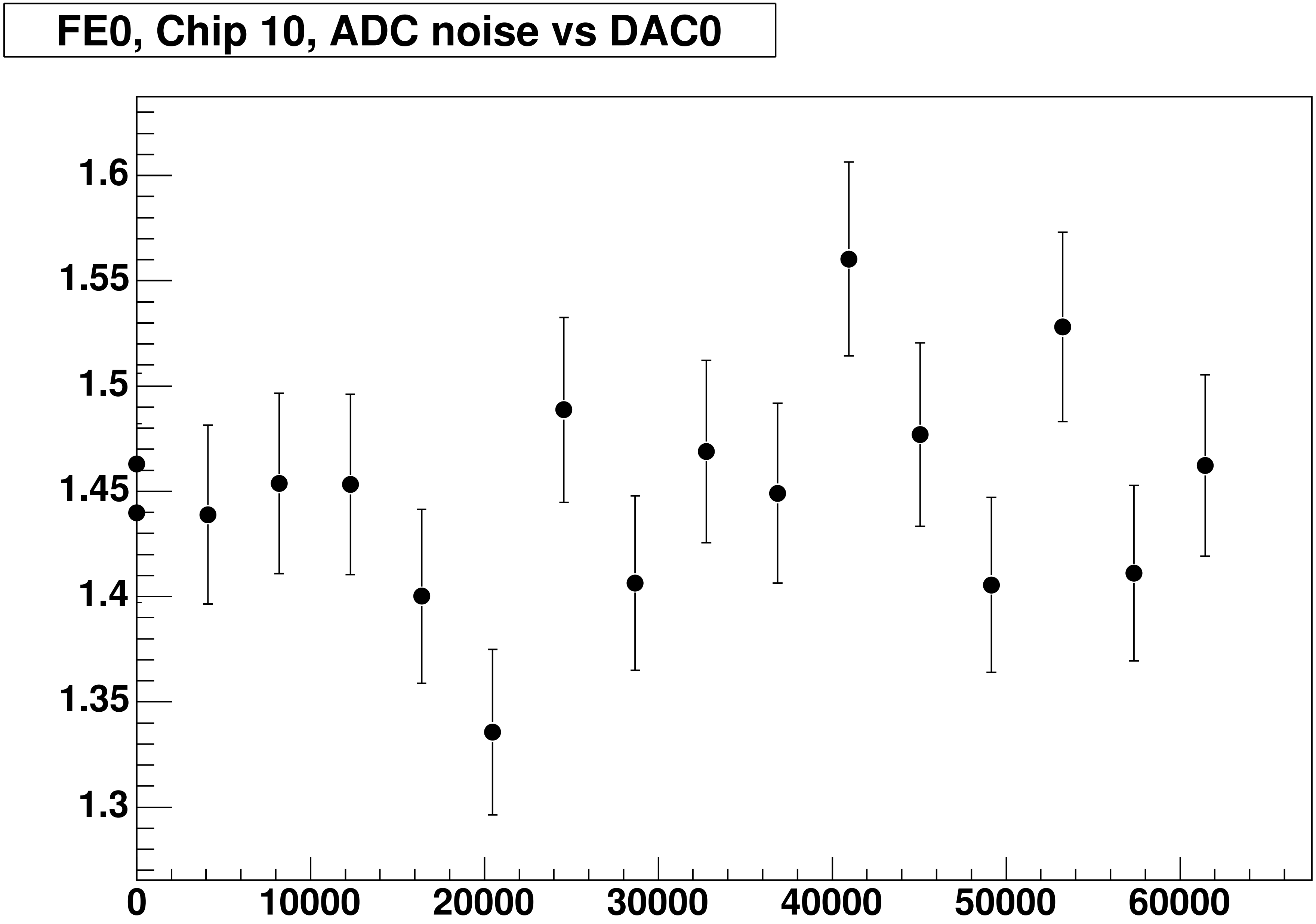


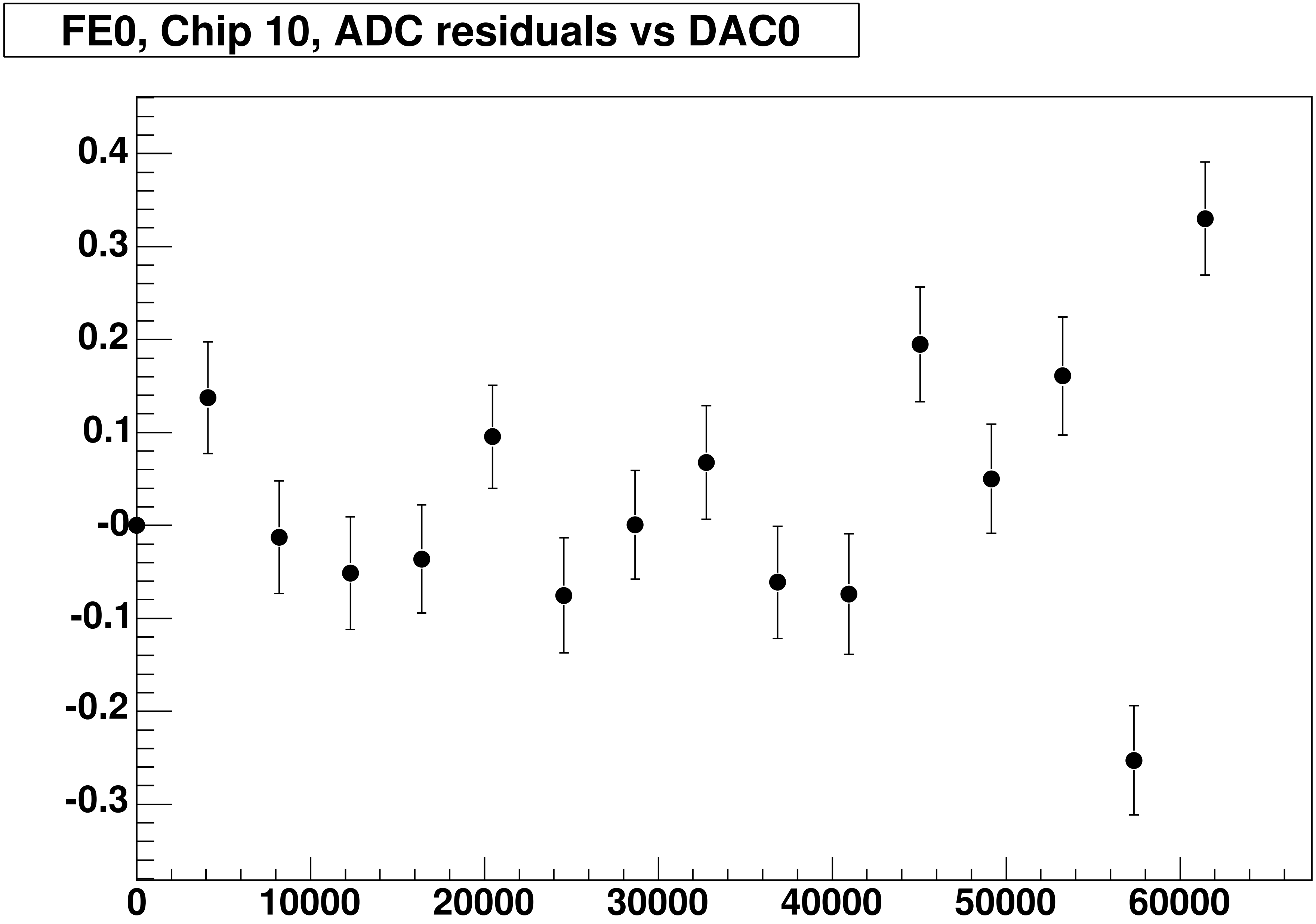
FE0, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2624 / 11
p0 -28.53 ± 0.04231
p1 0.4498 ± 1.353e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

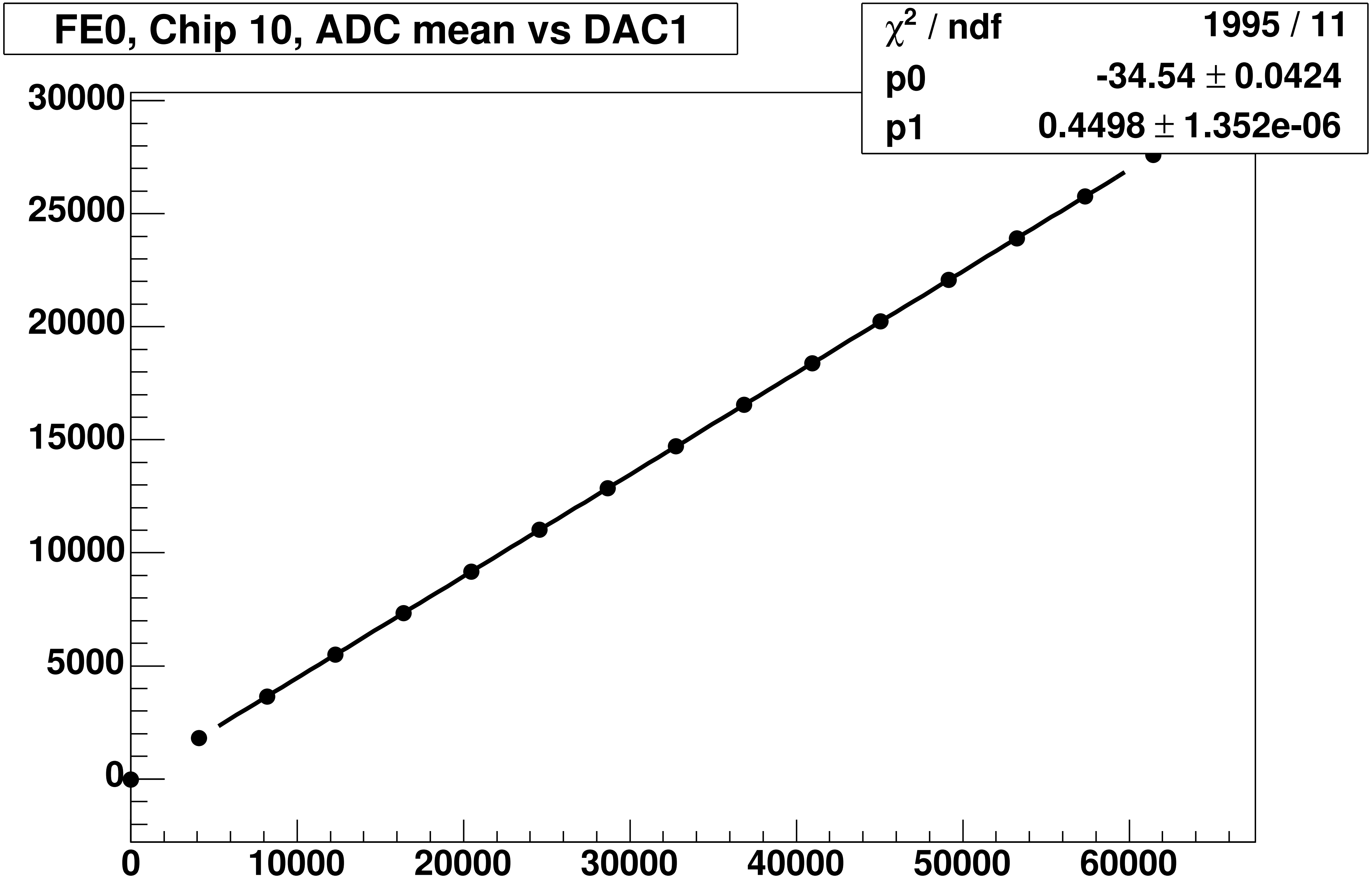

FE0, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

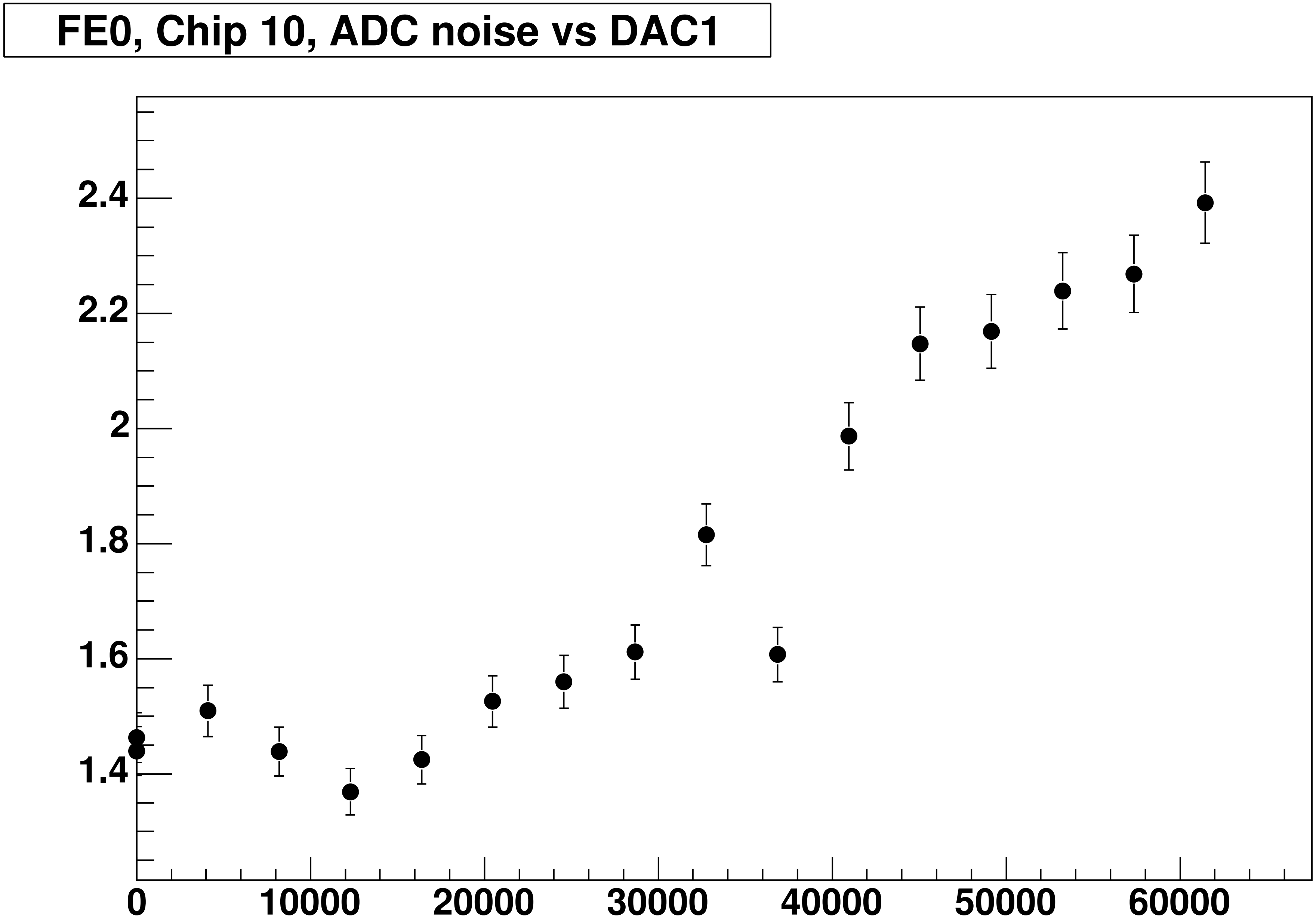

FE0, Chip 10, ADC mean vs DAC0
χ^2 / ndf 44.72 / 11
p0 -37.22 ± 0.03905
p1 -4.965e-06 ± 1.088e-06
-37
-37.1
-37.2
-37.3
-37.4
-37.5
-37.6
-37.7
-37.8
0
10000
20000
30000
40000
50000
60000


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

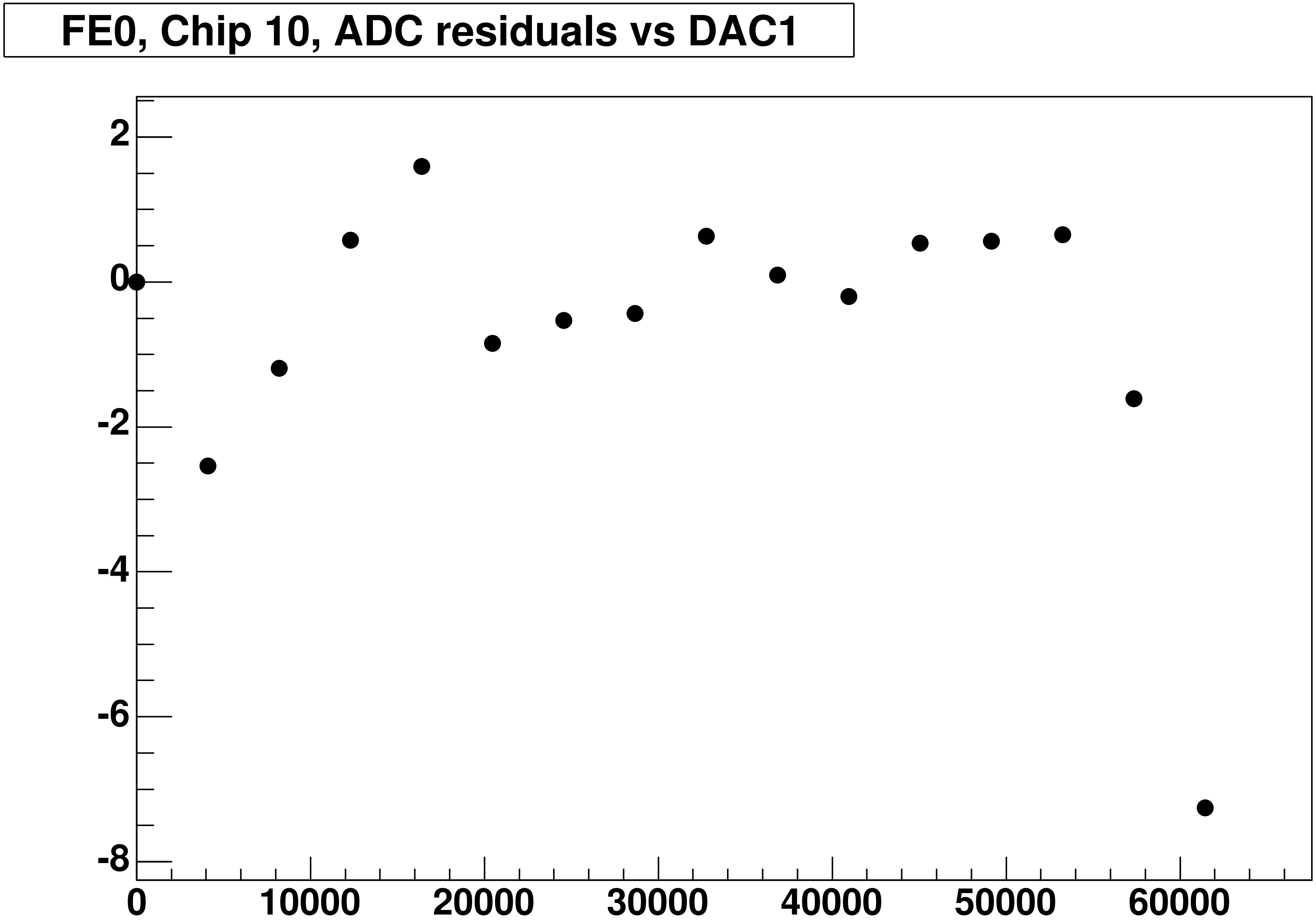

FE0, Chip 10, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

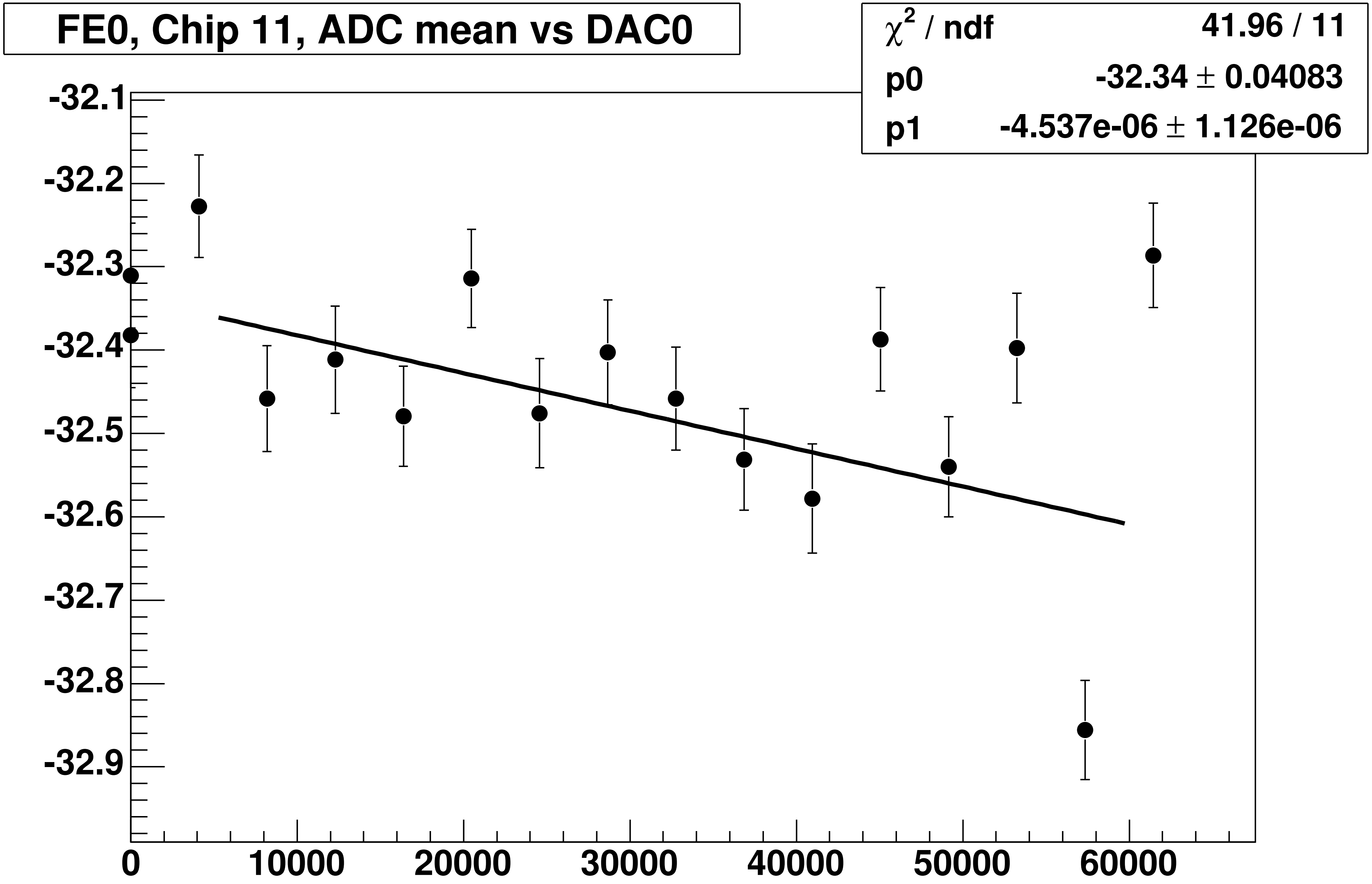


FE0, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1995 / 11
p0 -34.54 ± 0.0424
p1 0.4498 ± 1.352e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

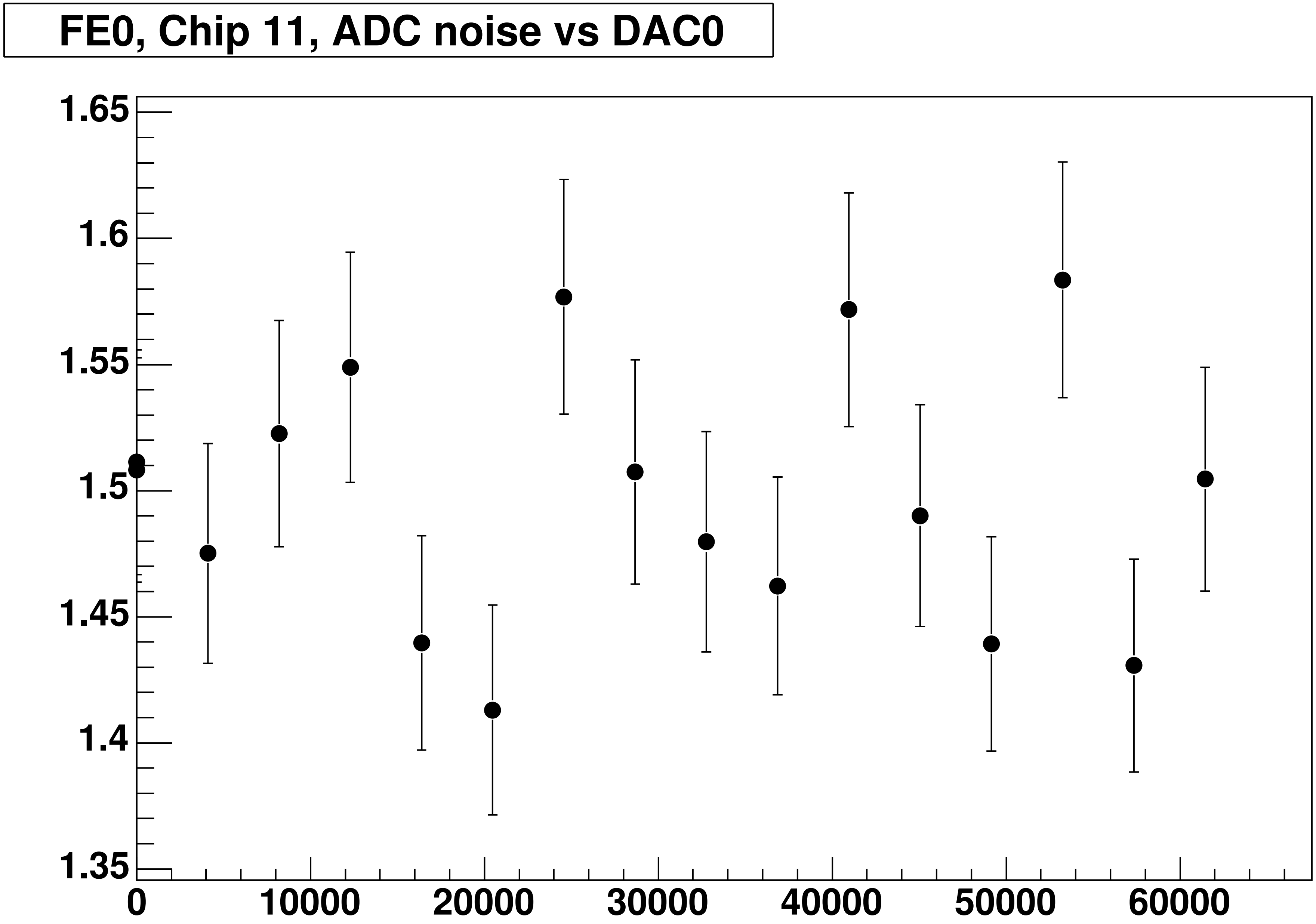


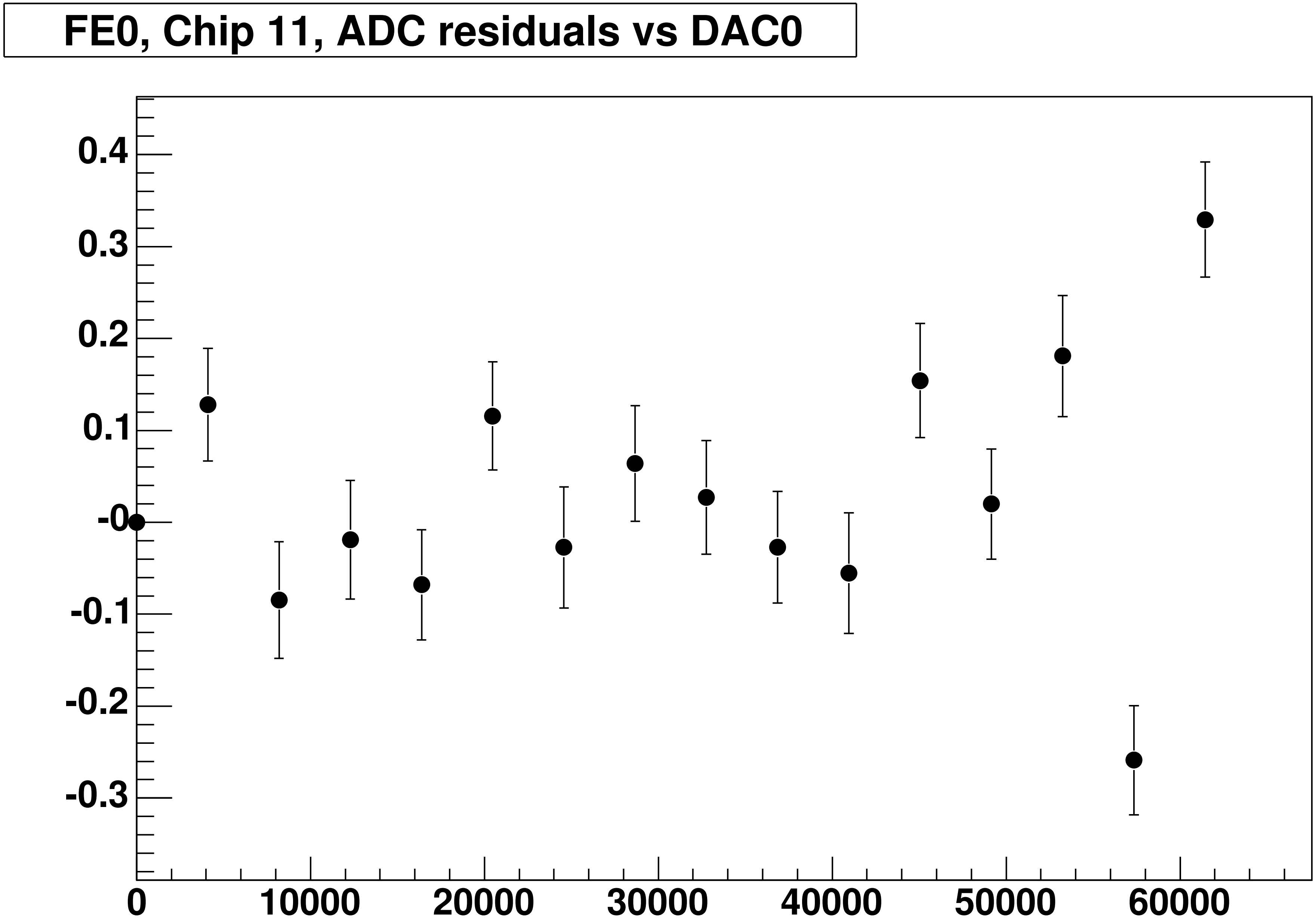
FE0, Chip 10, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

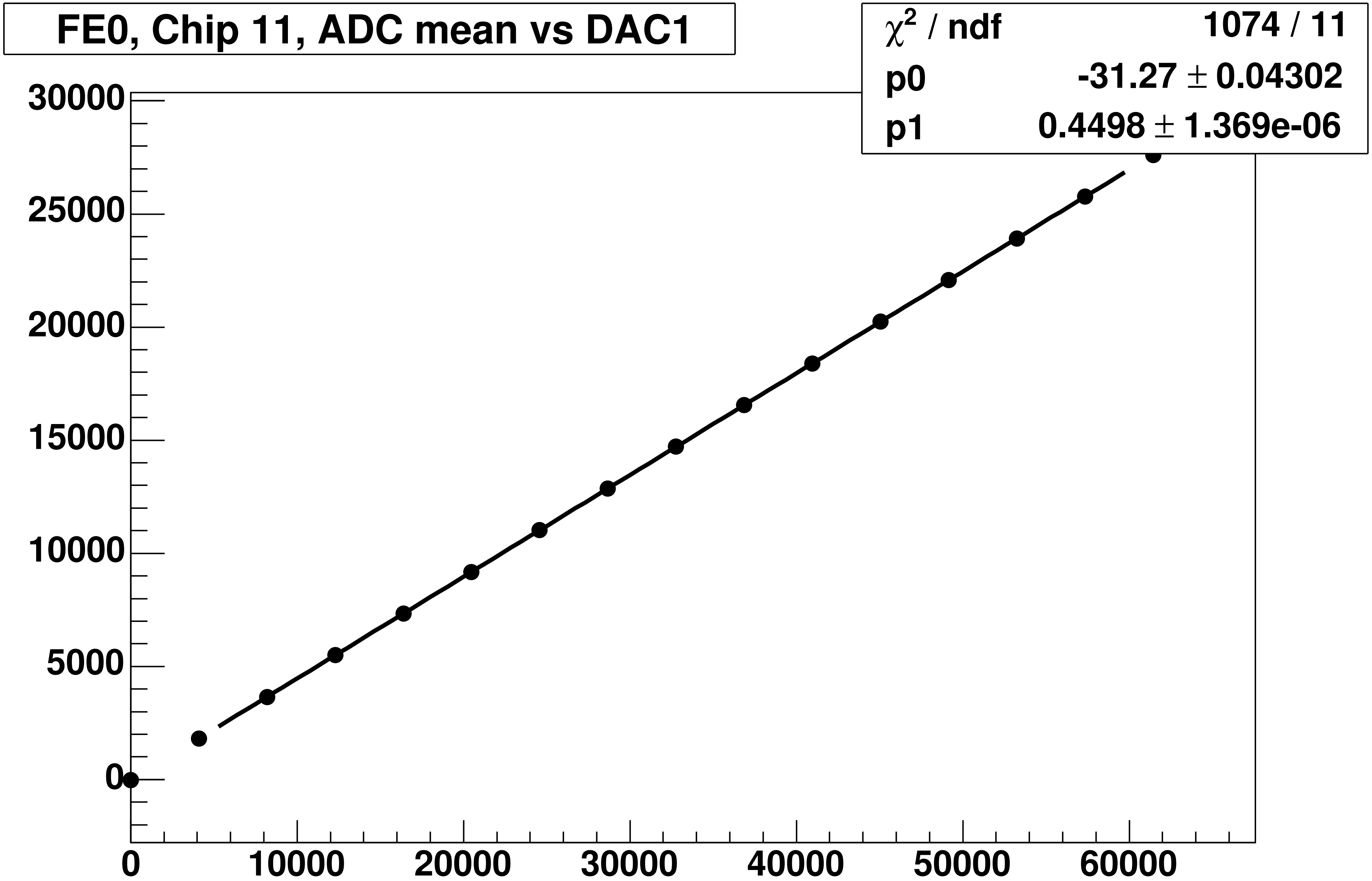


FE0, Chip 11, ADC mean vs DAC0
χ^2 / ndf 41.96 / 11
p0 -32.34 ± 0.04083
p1 -4.537e-06 ± 1.126e-06
-32.1
-32.2
-32.3
-32.4
-32.5
-32.6
-32.7
-32.8
-32.9
0
10000
20000
30000
40000
50000
60000


FE0, 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



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


FE0, Chip 11, ADC mean vs DAC1
χ² / ndf 1074 / 11
p0 -31.27 ± 0.04302
p1 0.4498 ± 1.369e-06
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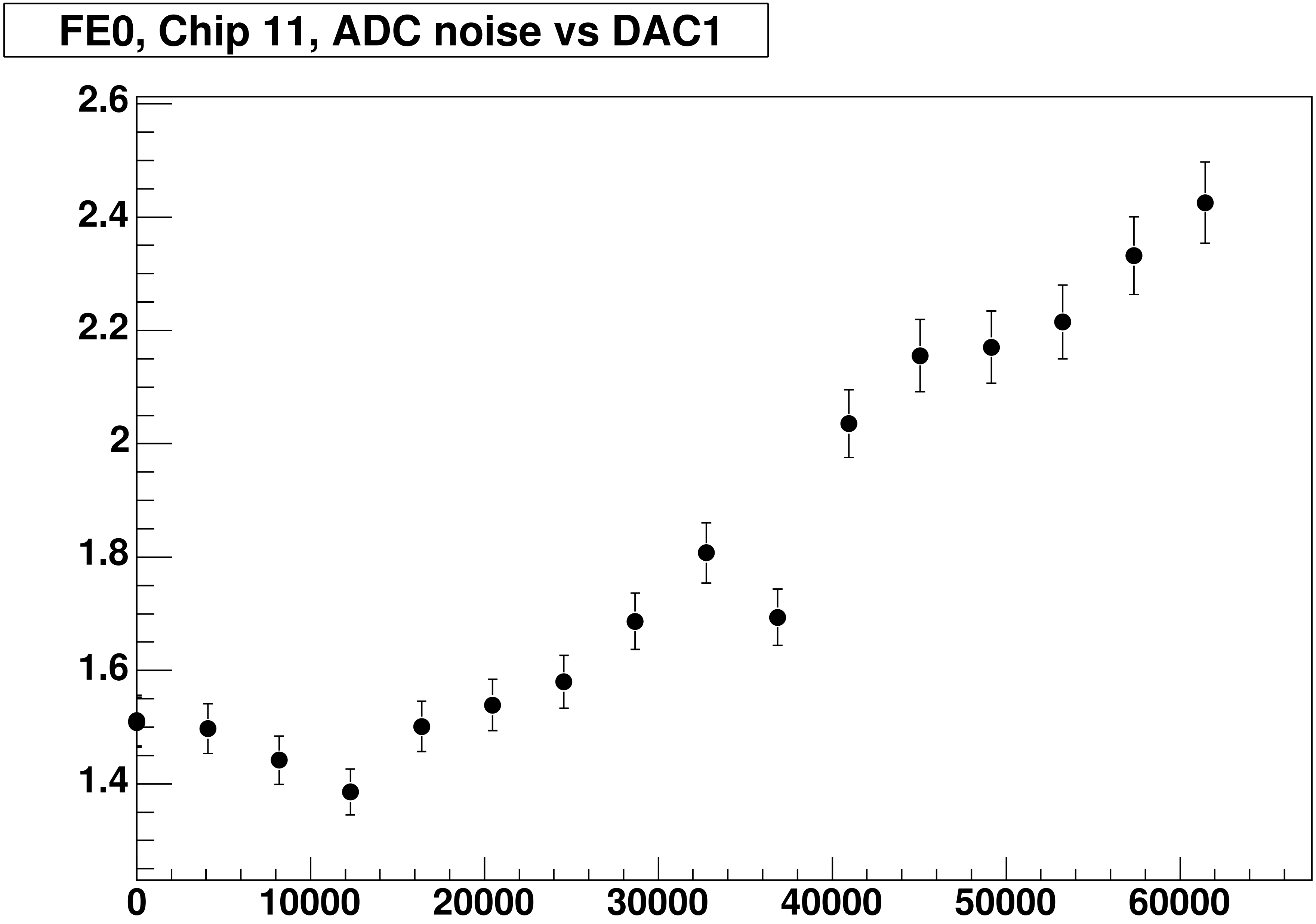
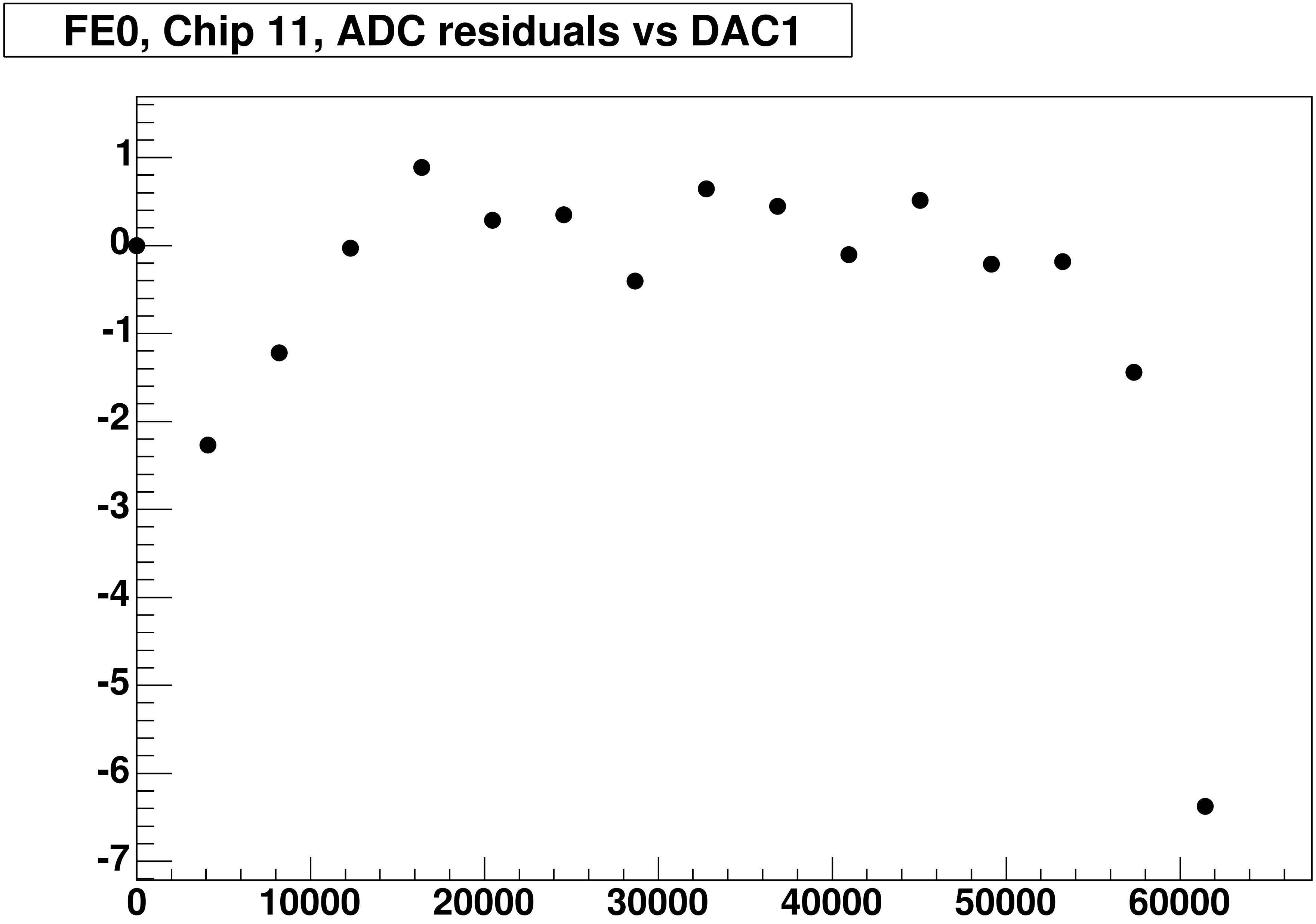
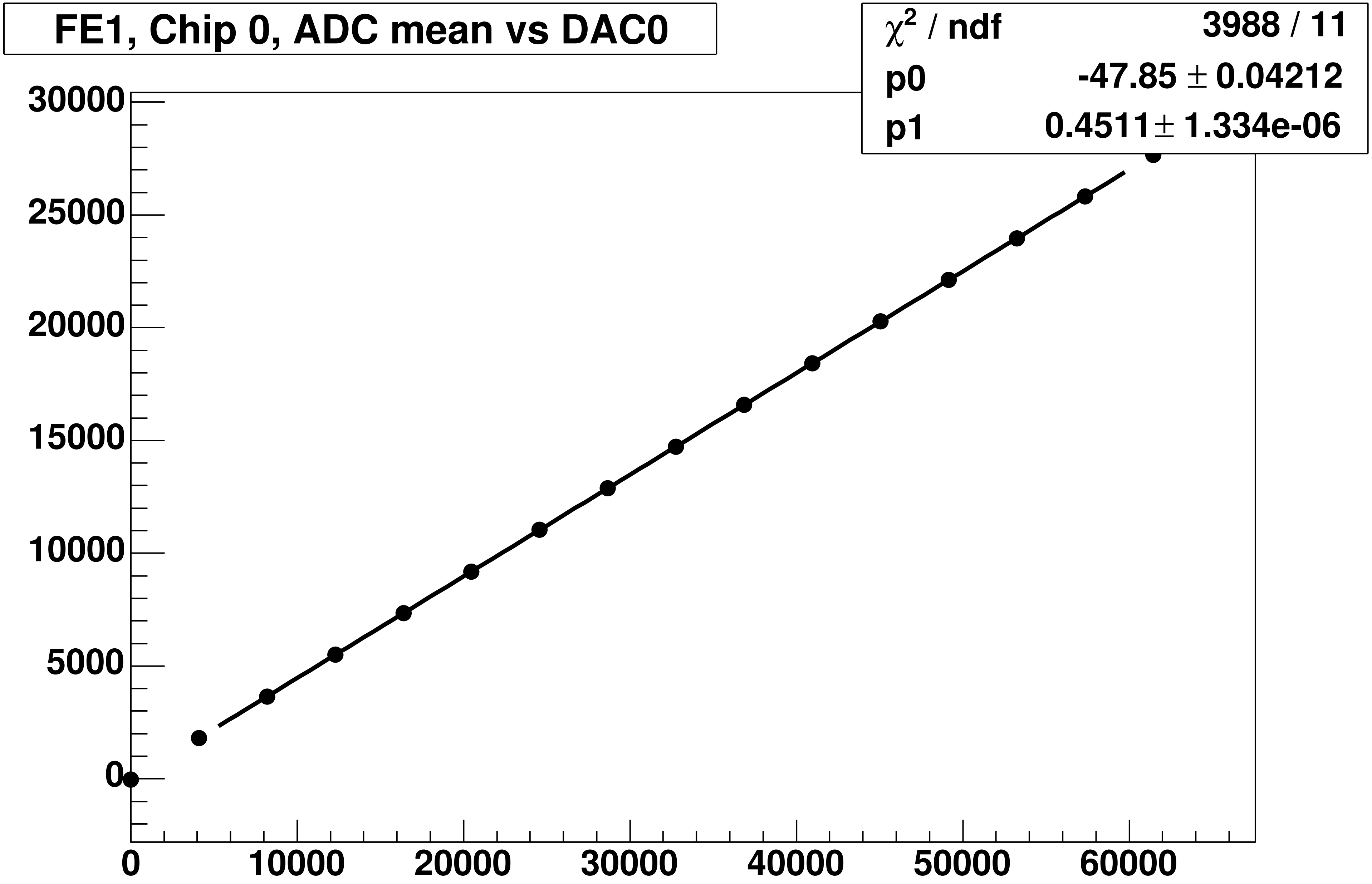
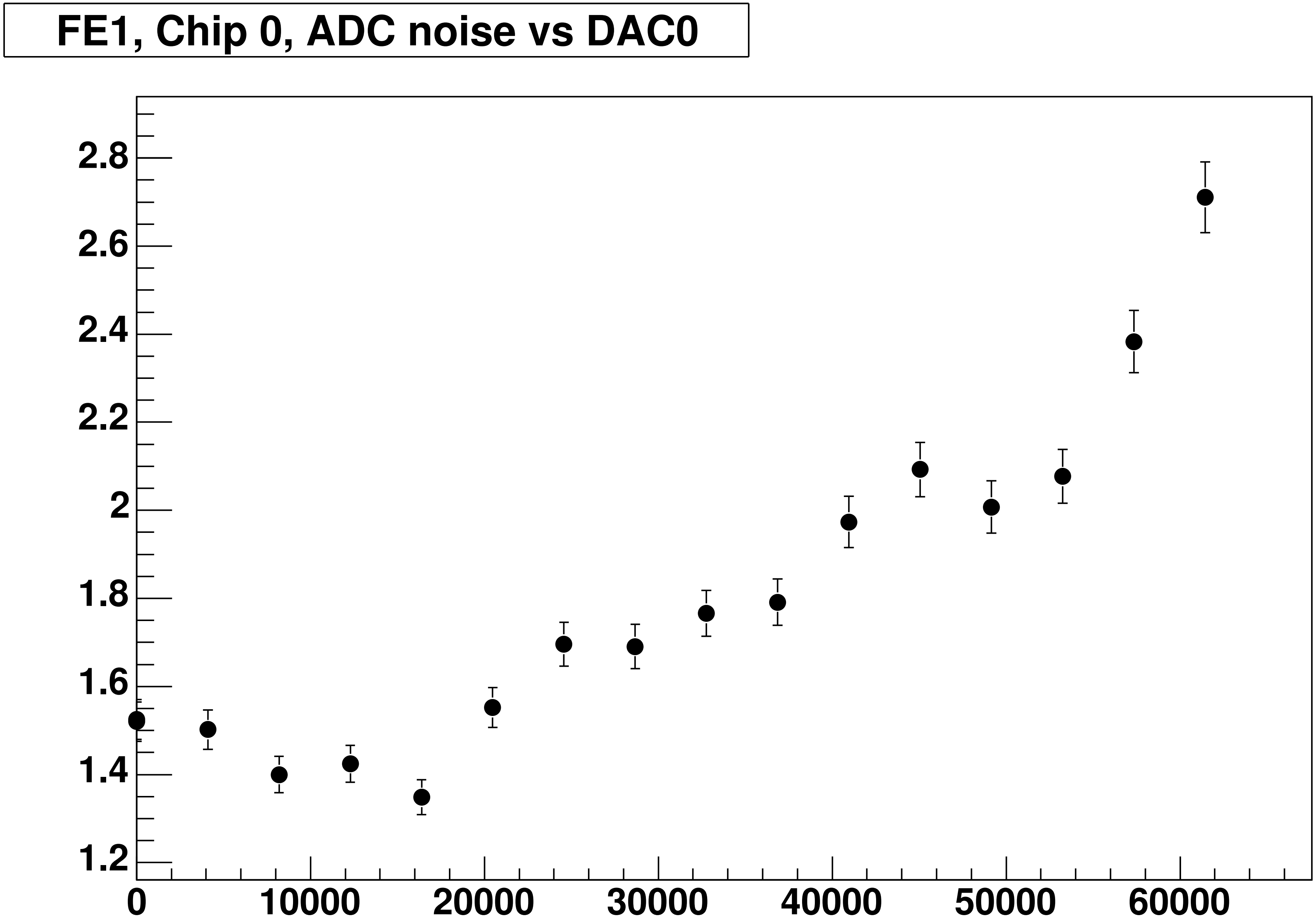
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

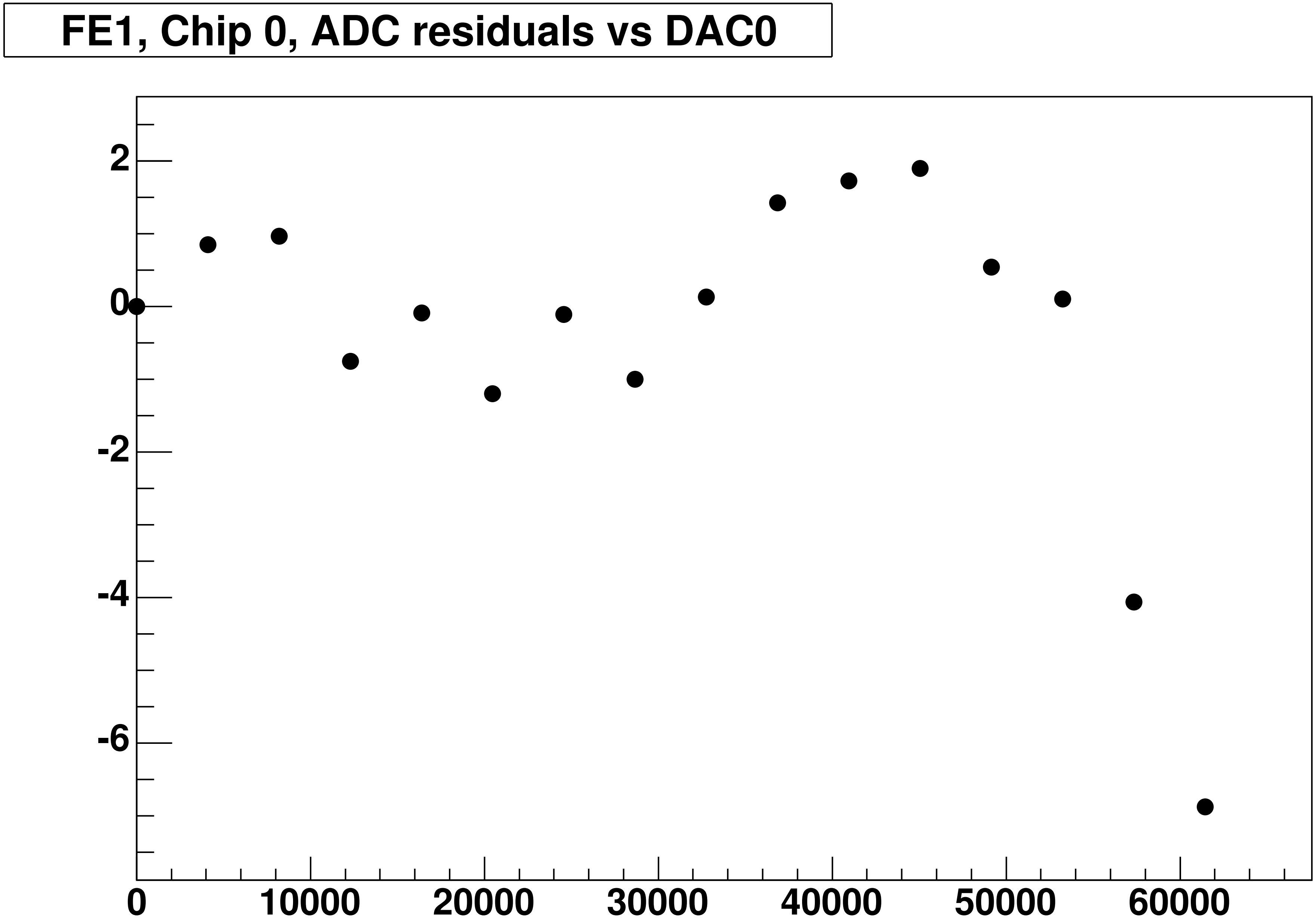

FE0, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

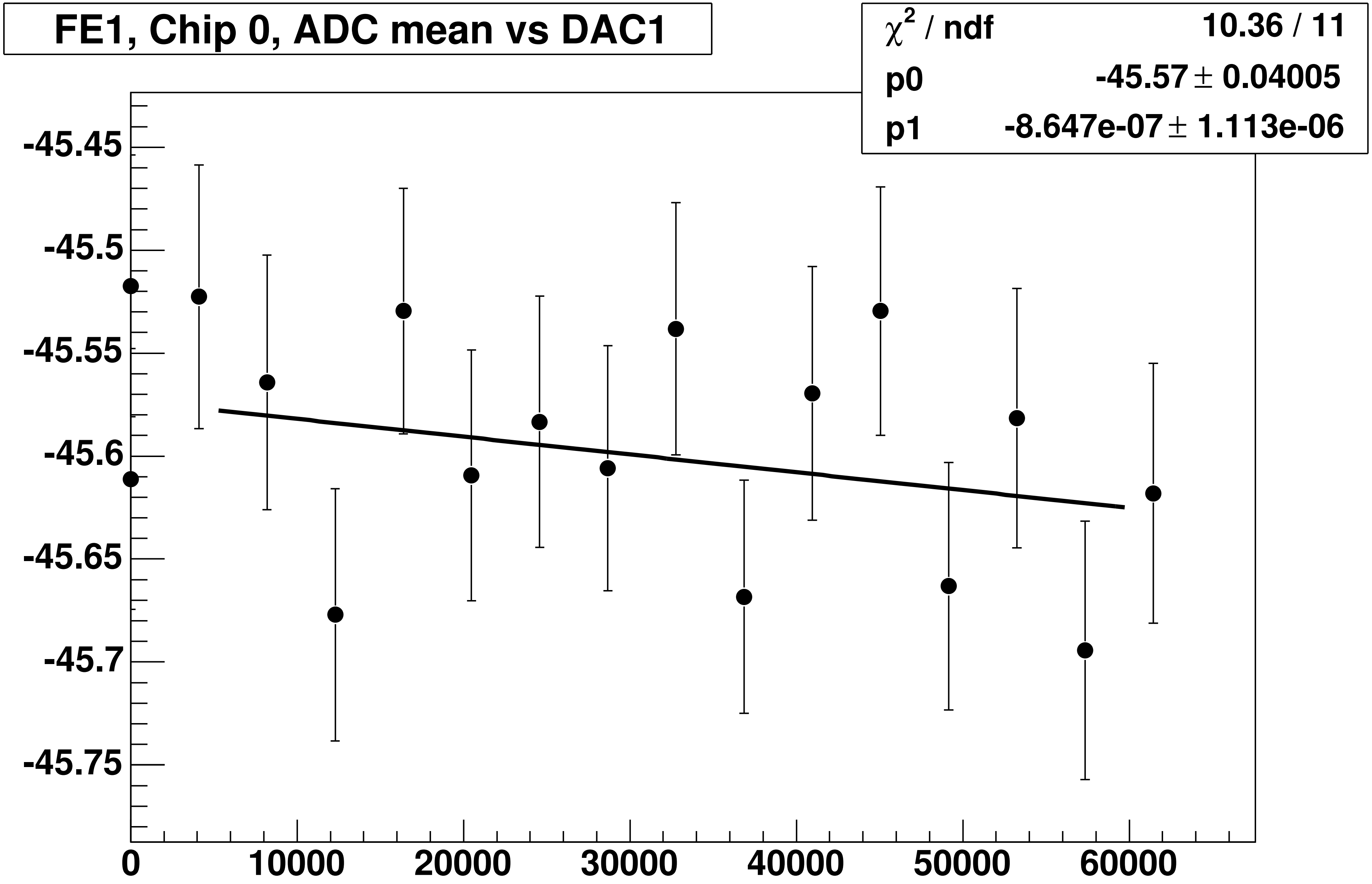

FE0, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

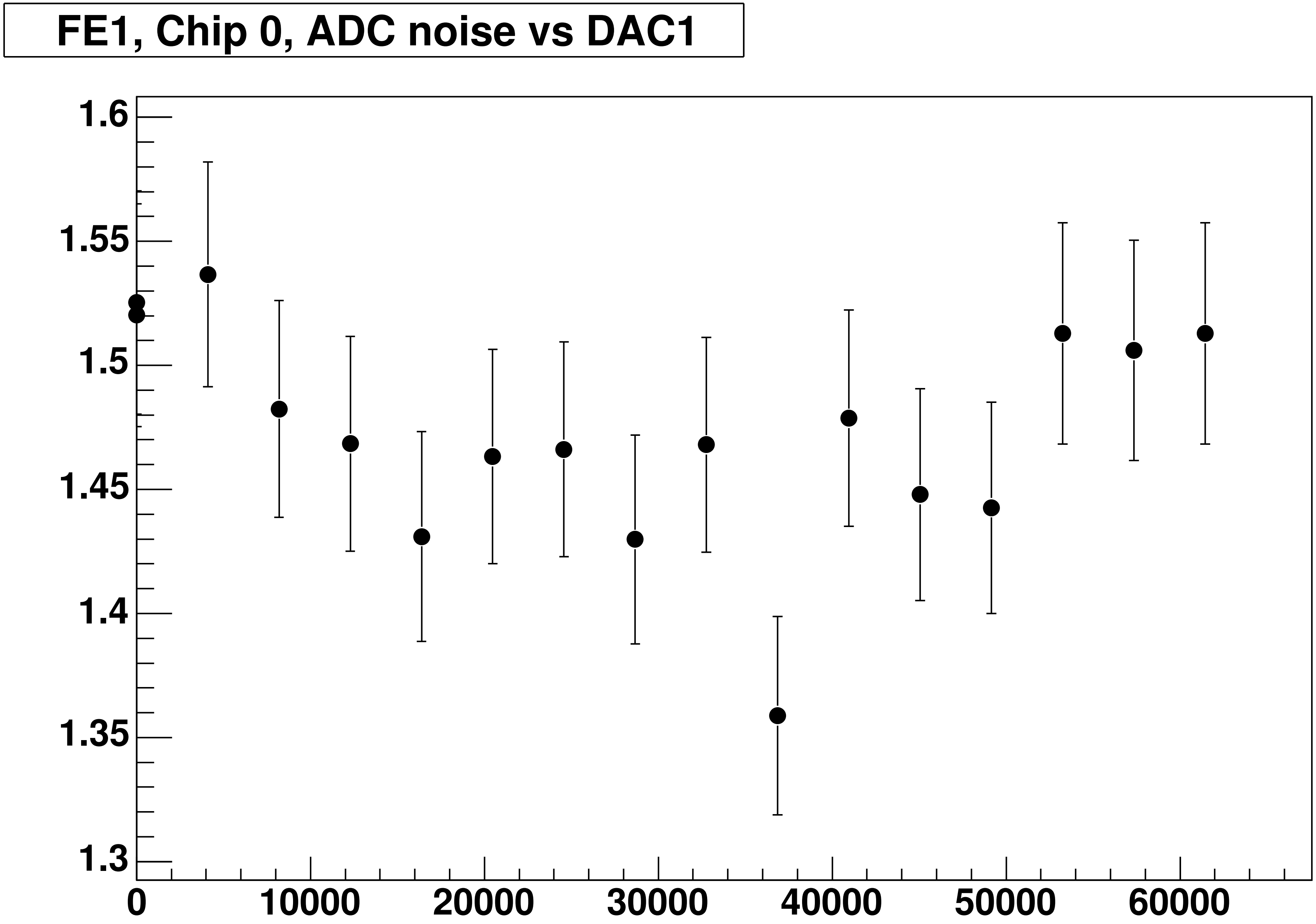


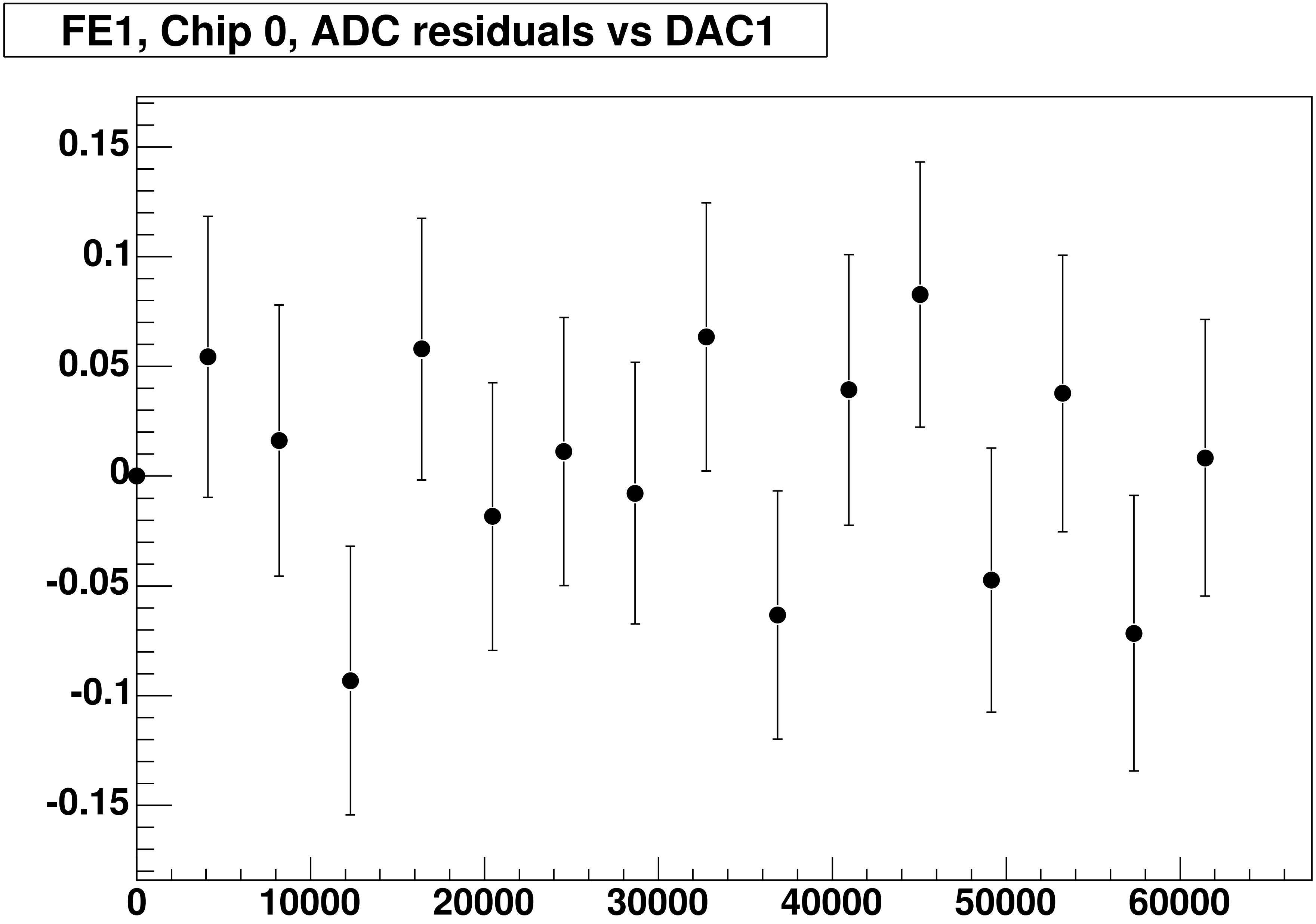
FE1, Chip 0, ADC mean vs DAC0
χ^2 / ndf 3988 / 11
p0 -47.85 ± 0.04212
p1 0.4511 ± 1.334e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE1, 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

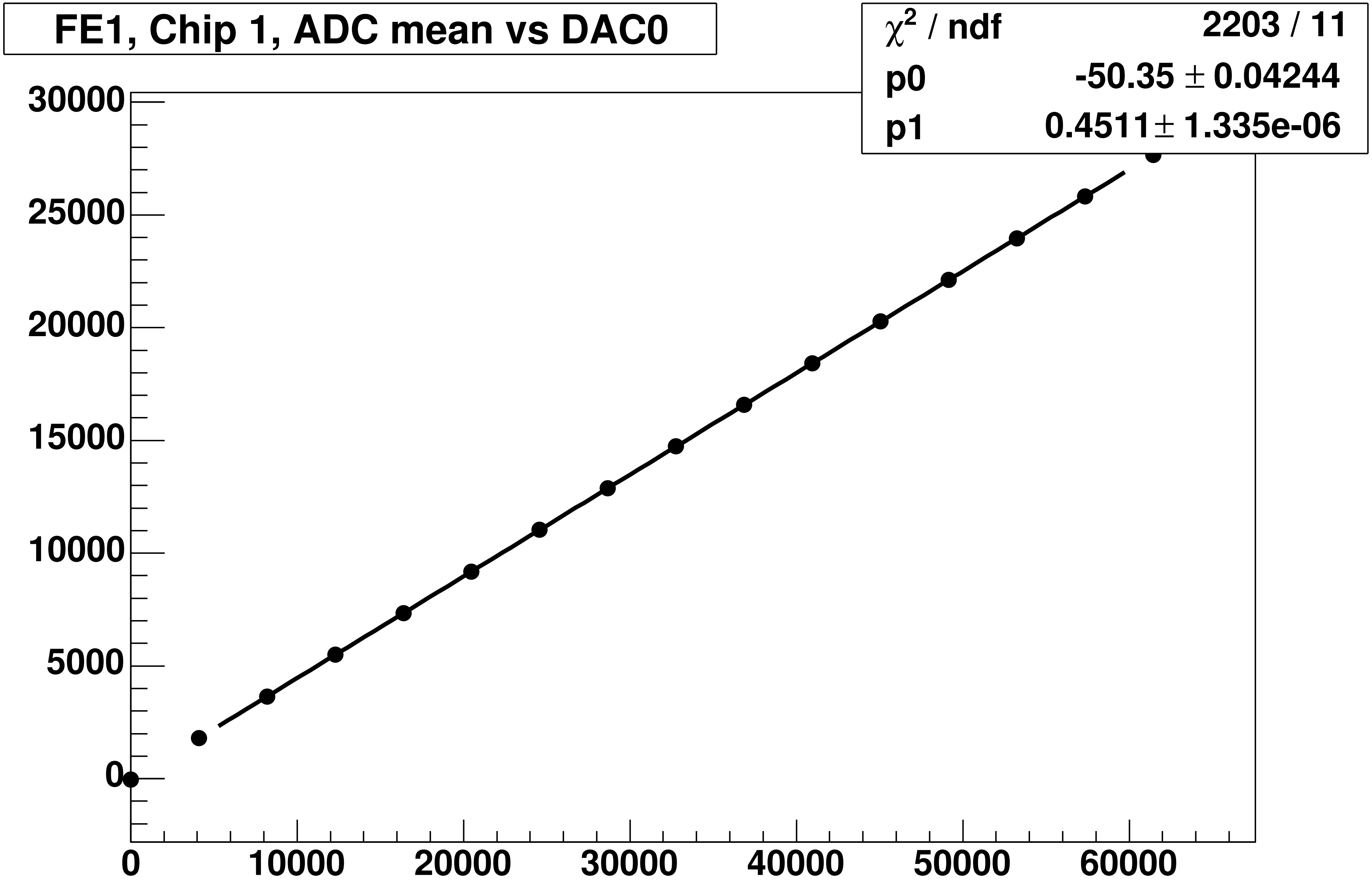

FE1, Chip 0, ADC residuals vs DAC0
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

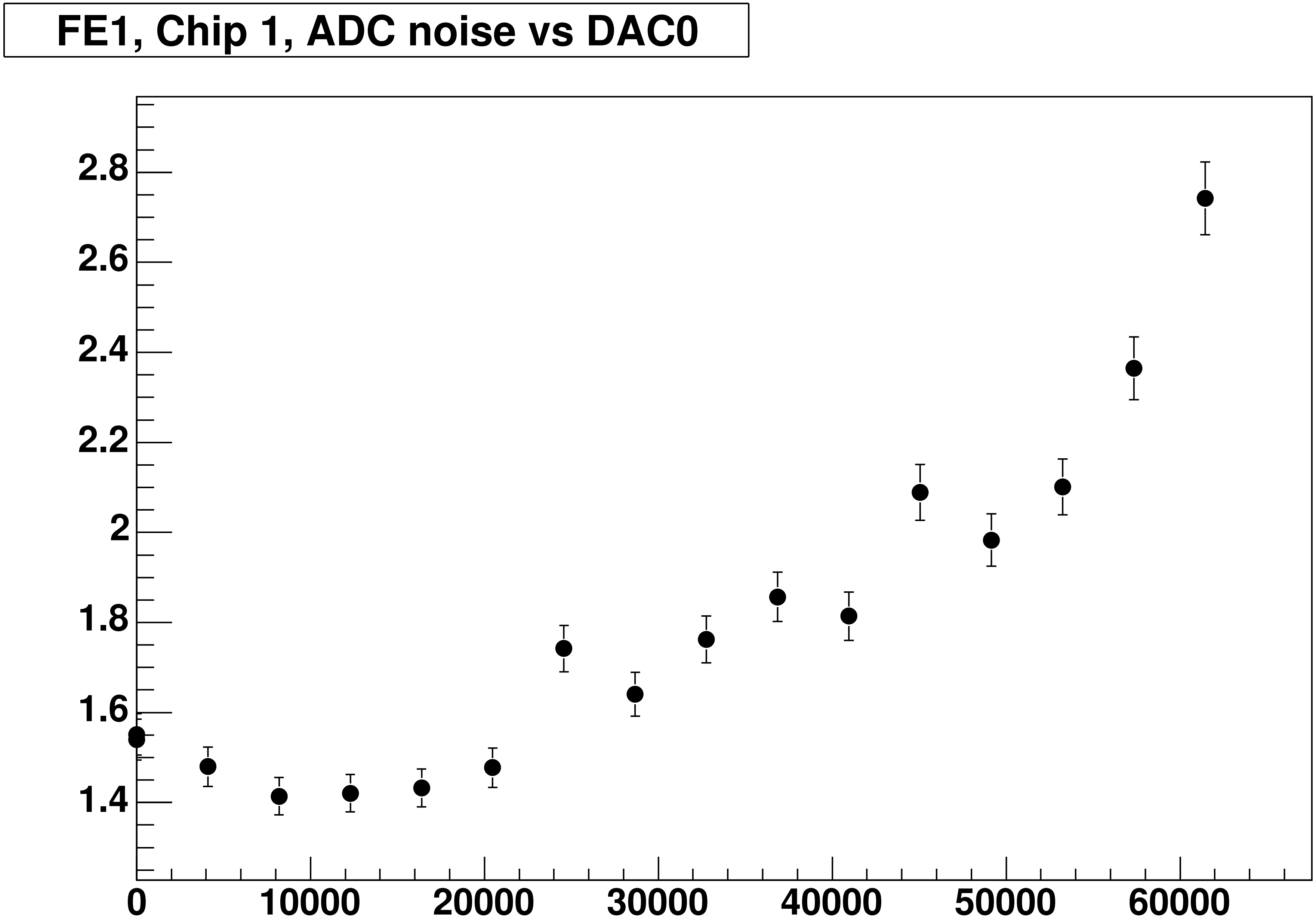

FE1, Chip 0, ADC mean vs DAC1
χ^2 / ndf 10.36 / 11
p0 -45.57 ± 0.04005
p1 -8.647e-07 ± 1.113e-06
-45.45
-45.5
-45.55
-45.6
-45.65
-45.7
-45.75
0
10000
20000
30000
40000
50000
60000

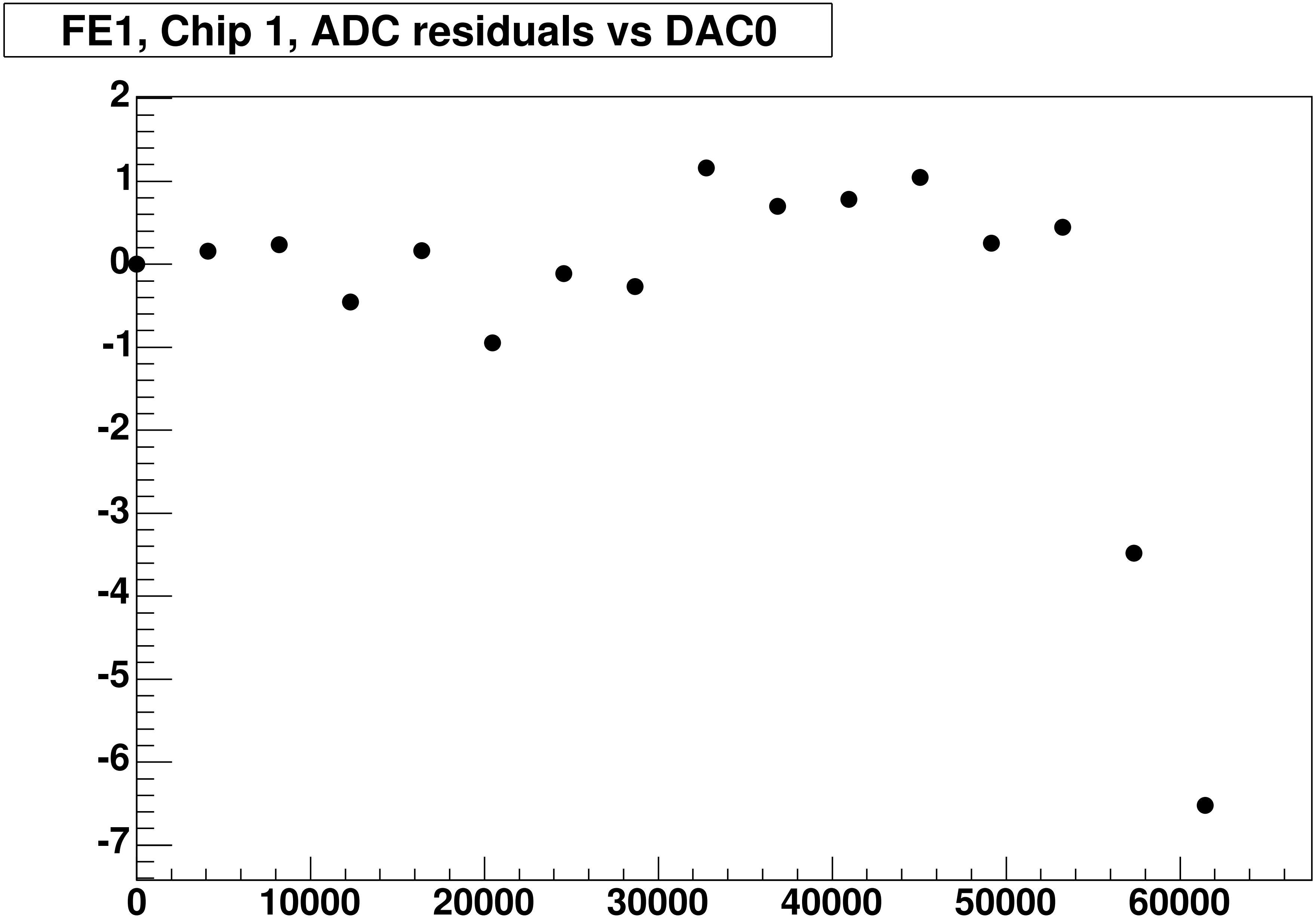

FE1, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



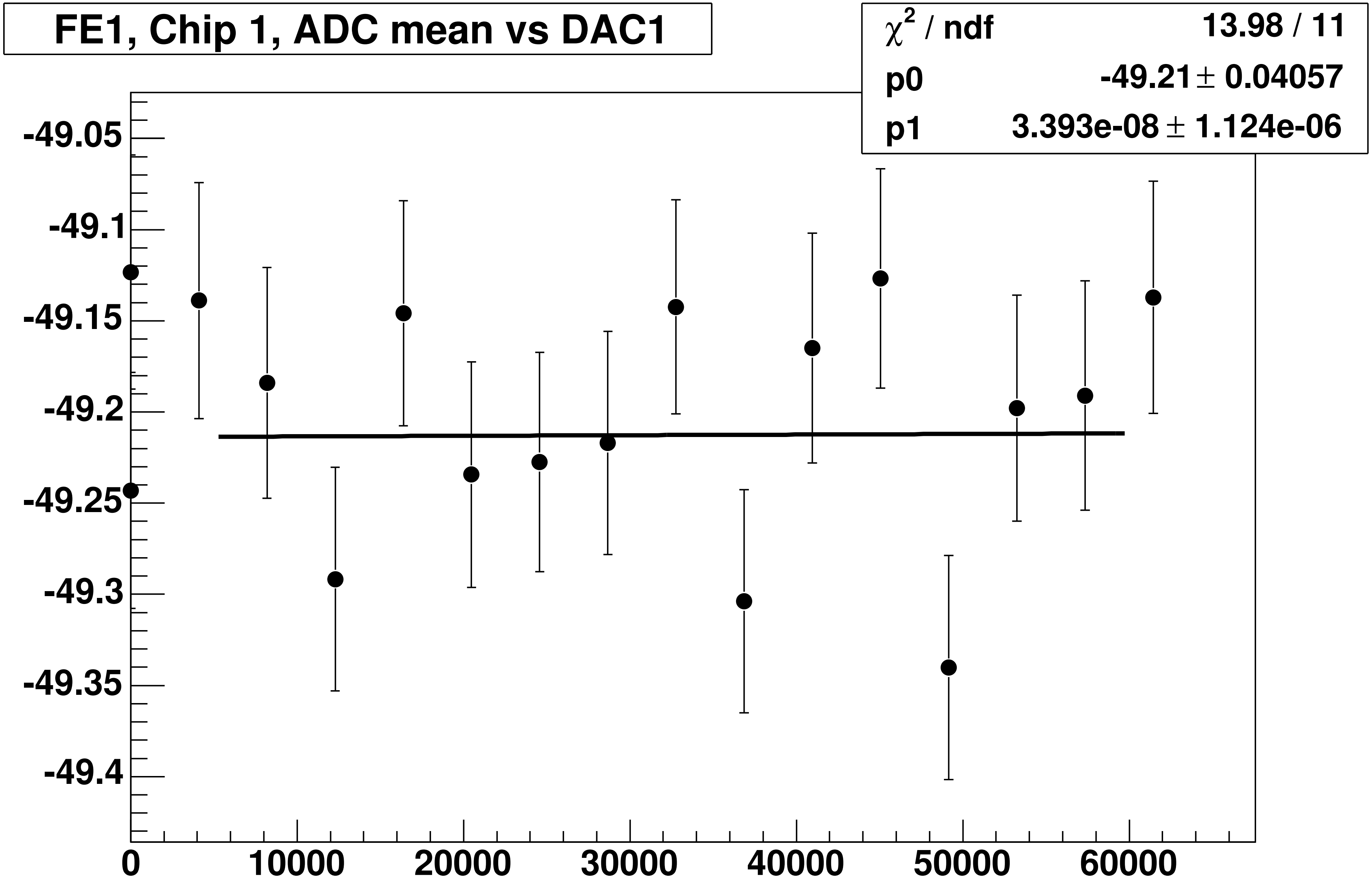
FE1, Chip 0, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000


FE1, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2203 / 11
p0 -50.35 ± 0.04244
p1 0.4511 ± 1.335e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

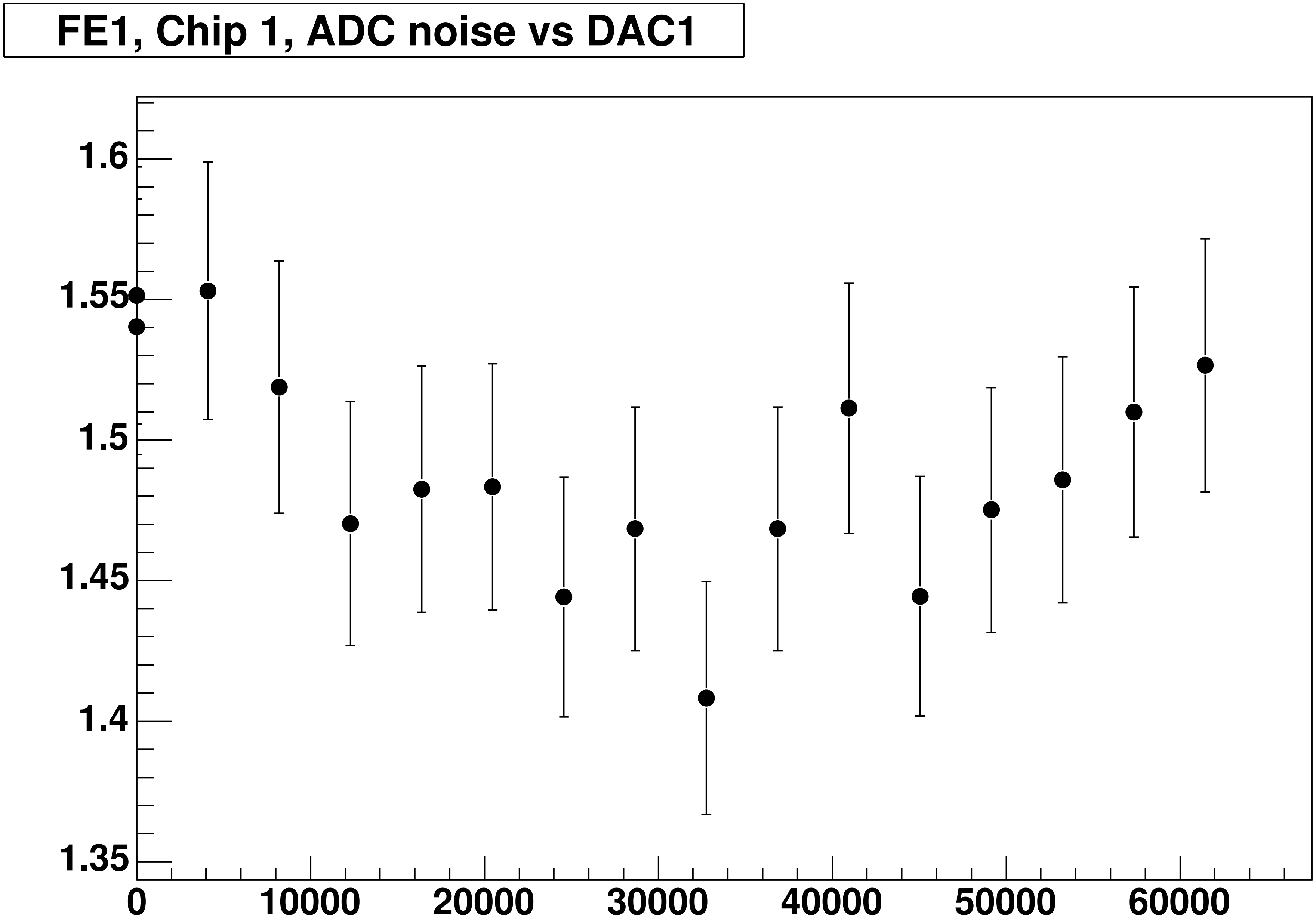

FE1, Chip 1, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



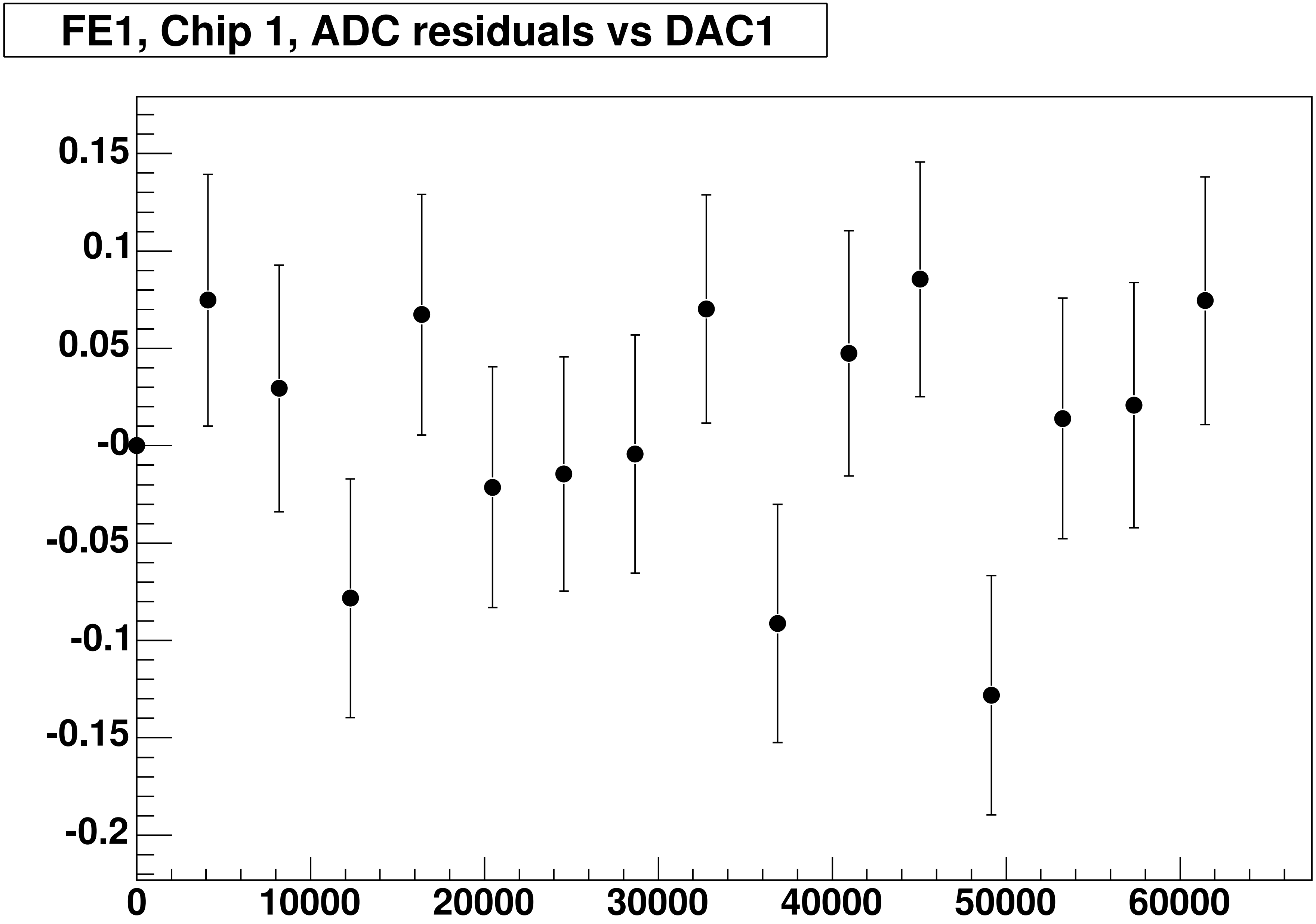
FE1, Chip 1, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

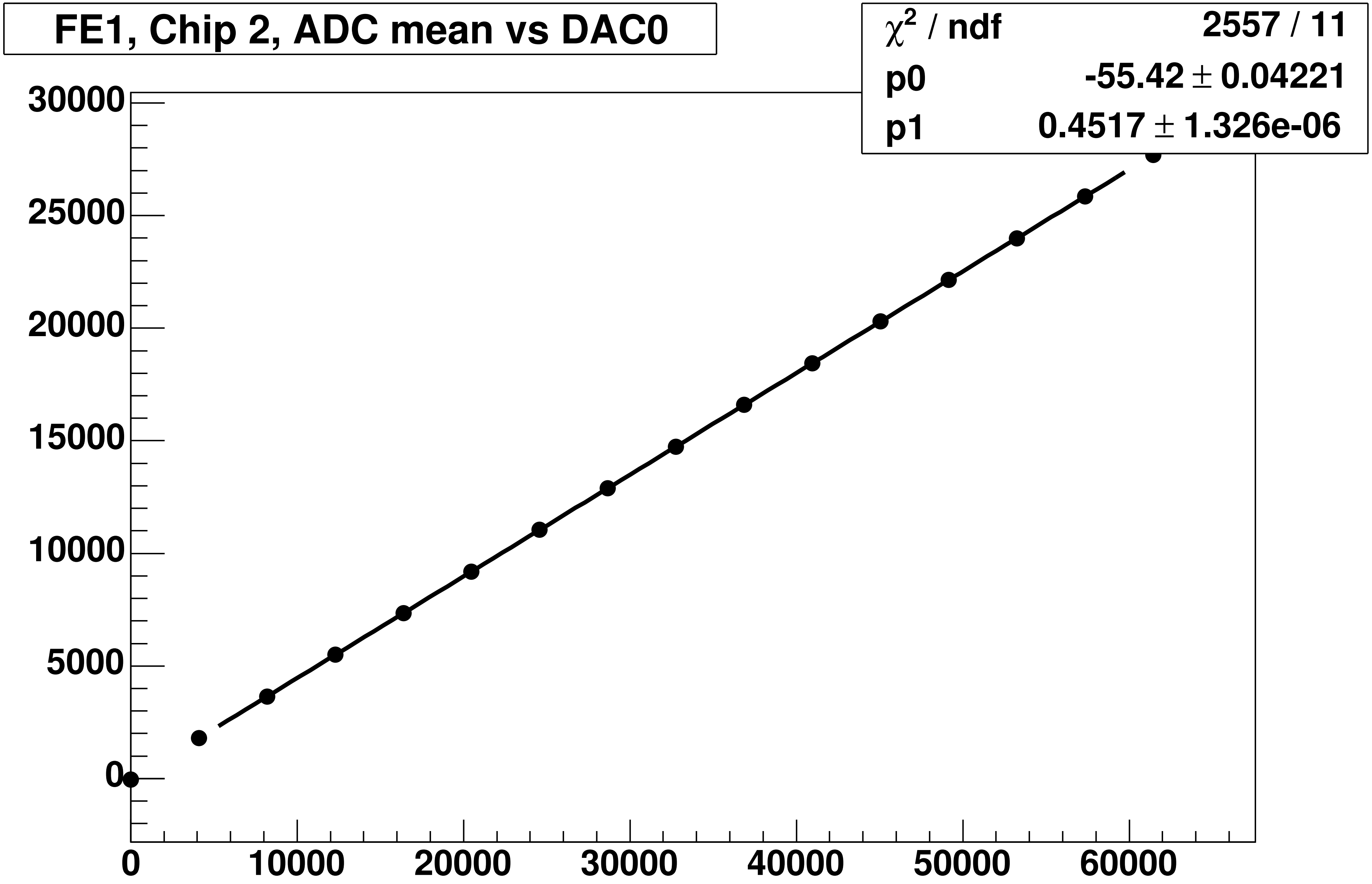


FE1, Chip 1, ADC mean vs DAC1
χ^2 / ndf 13.98 / 11
p0 -49.21 ± 0.04057
p1 3.393e-08 ± 1.124e-06
-49.05
-49.1
-49.15
-49.2
-49.25
-49.3
-49.35
-49.4
0
10000
20000
30000
40000
50000
60000

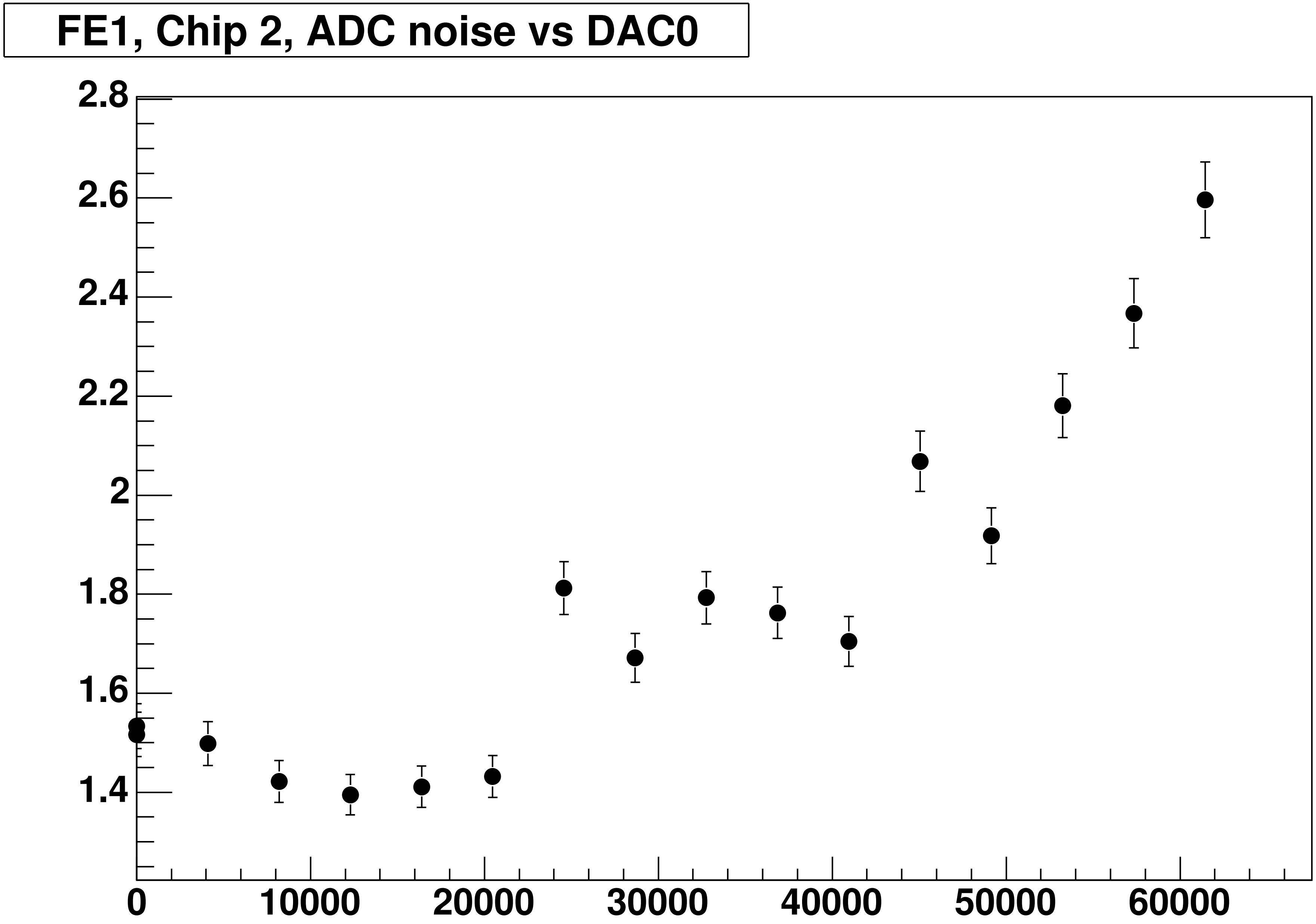


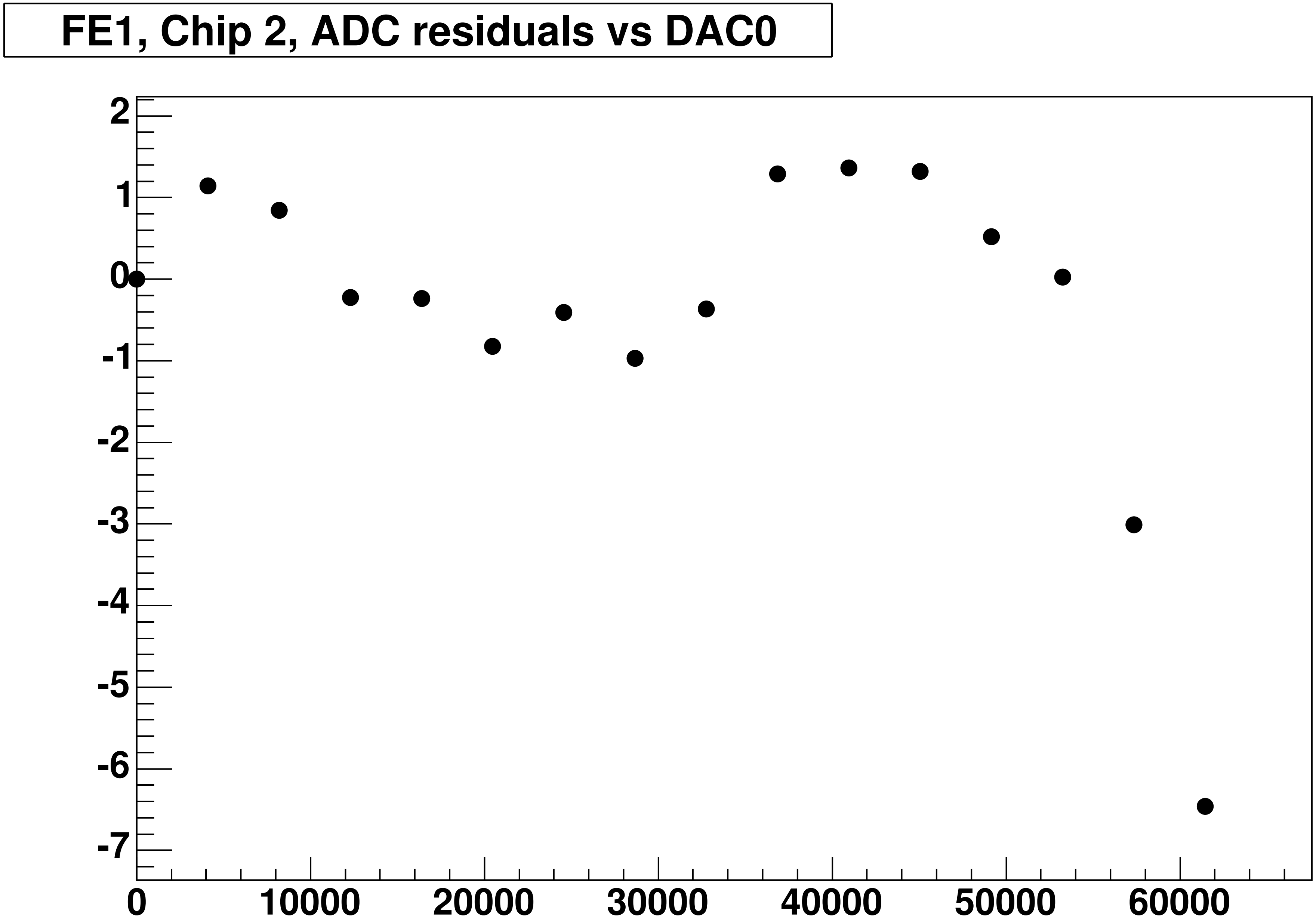
FE1, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

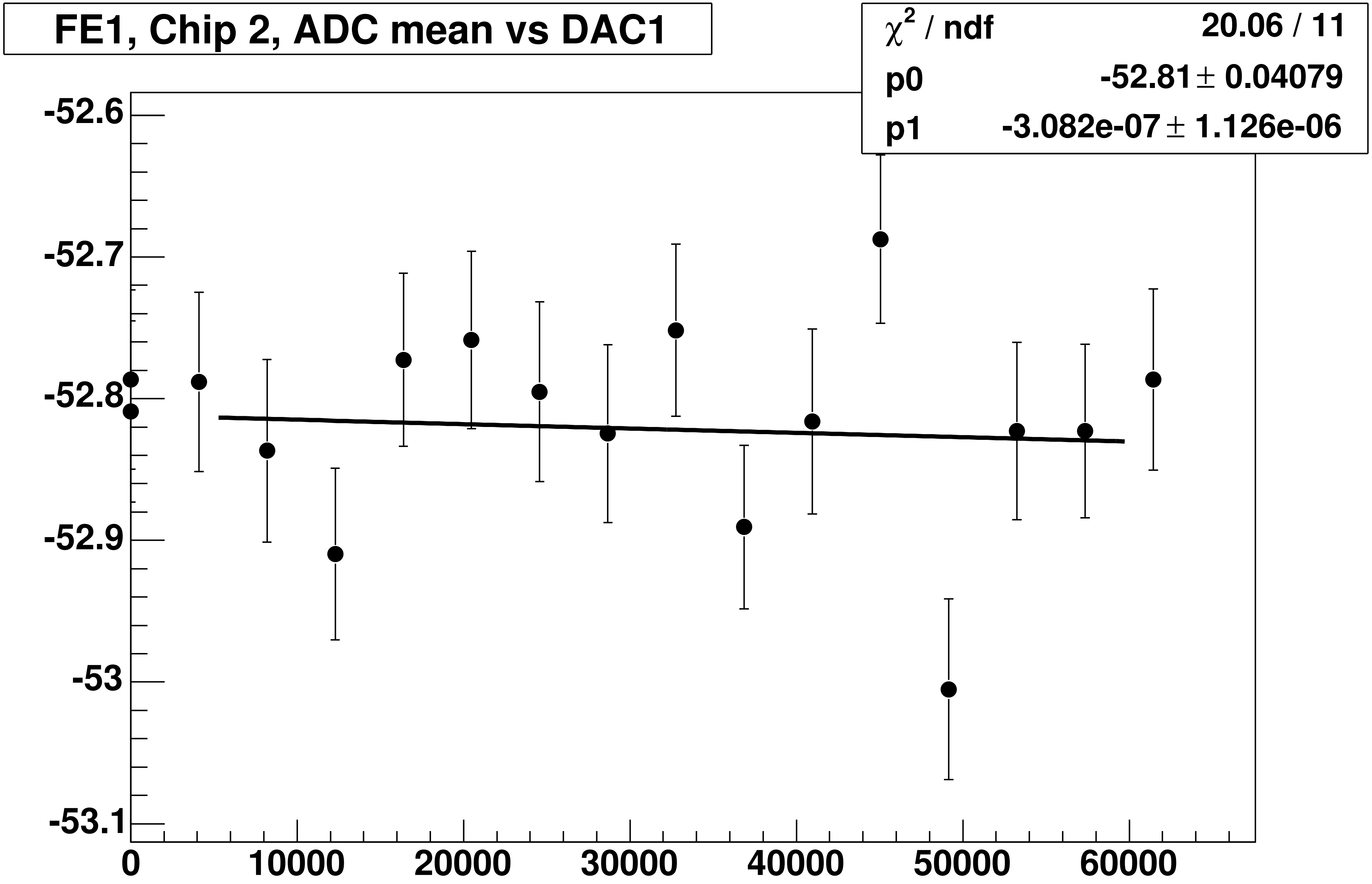

FE1, Chip 1, ADC residuals vs DAC1
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



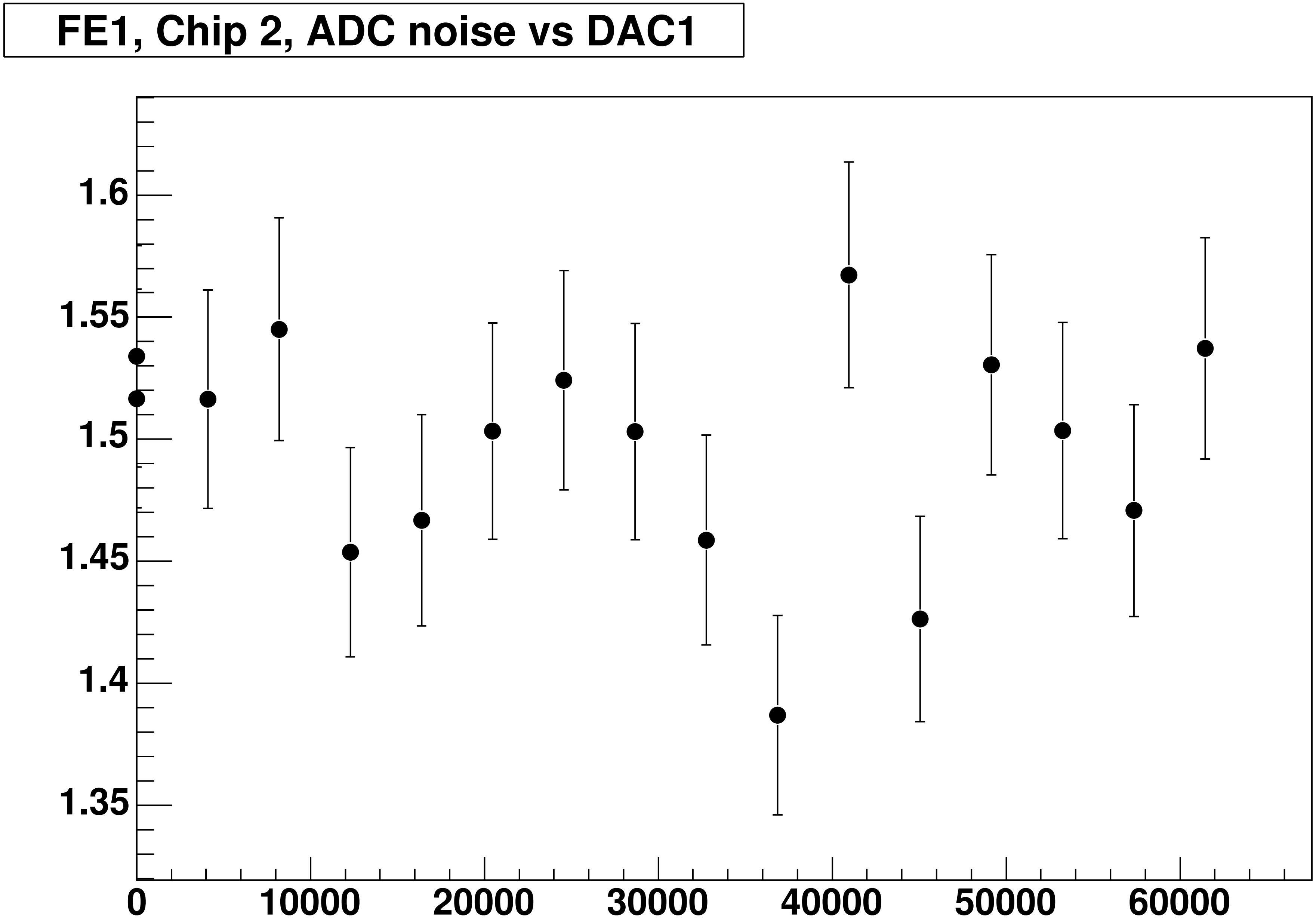
FE1, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2557 / 11
p0 -55.42 ± 0.04221
p1 0.4517 ± 1.326e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE1, Chip 2, 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

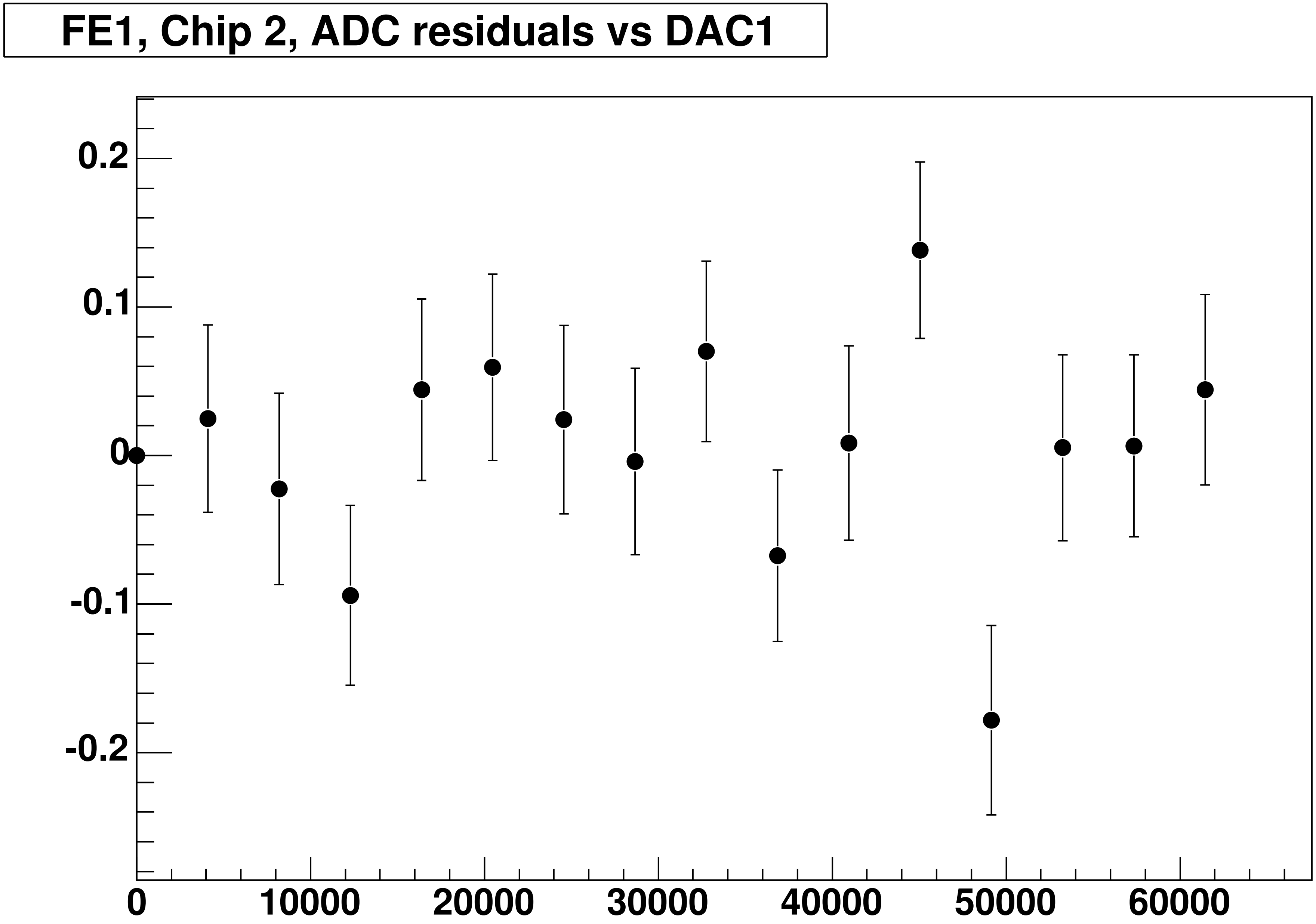

FE1, Chip 2, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

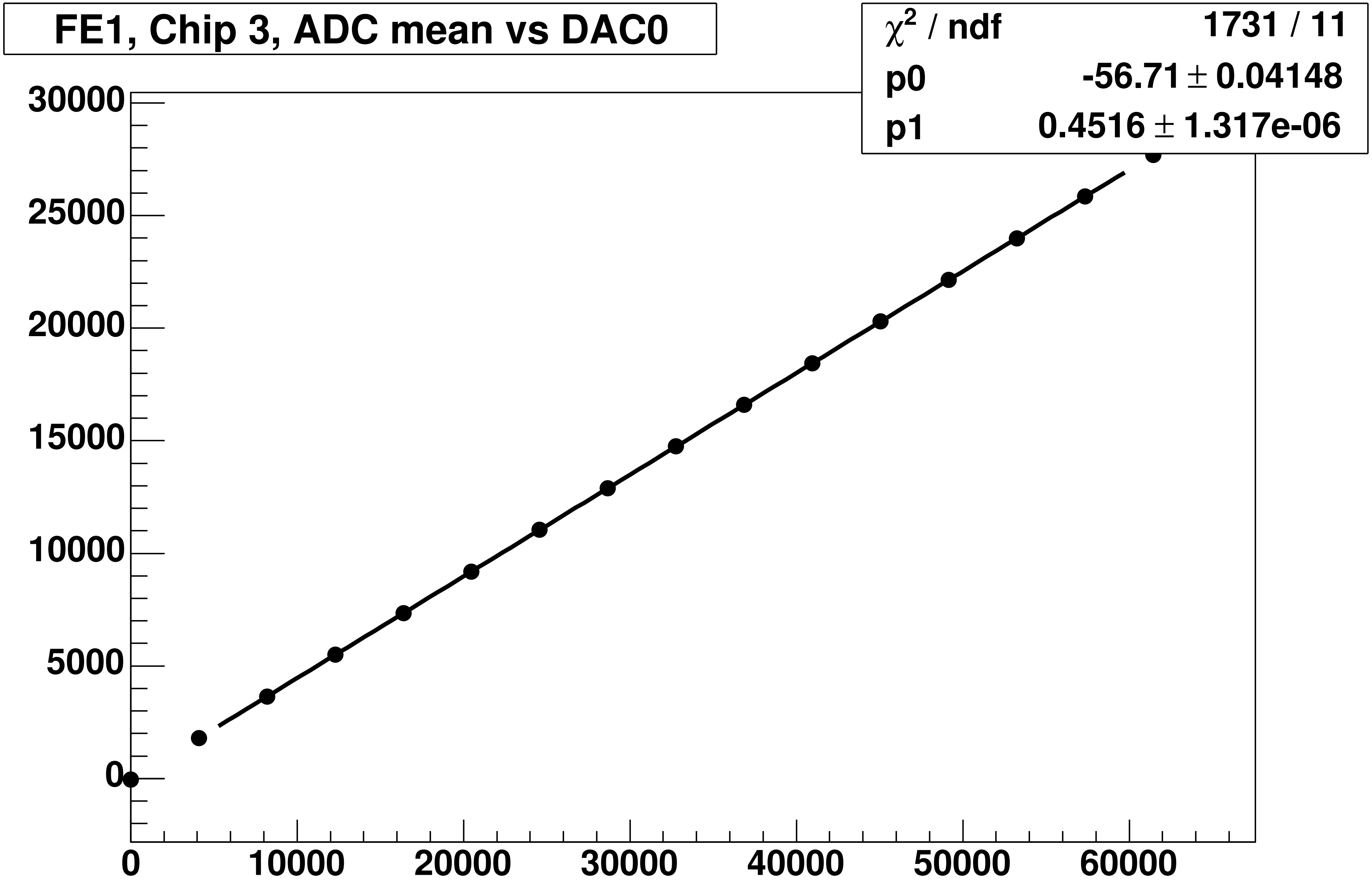


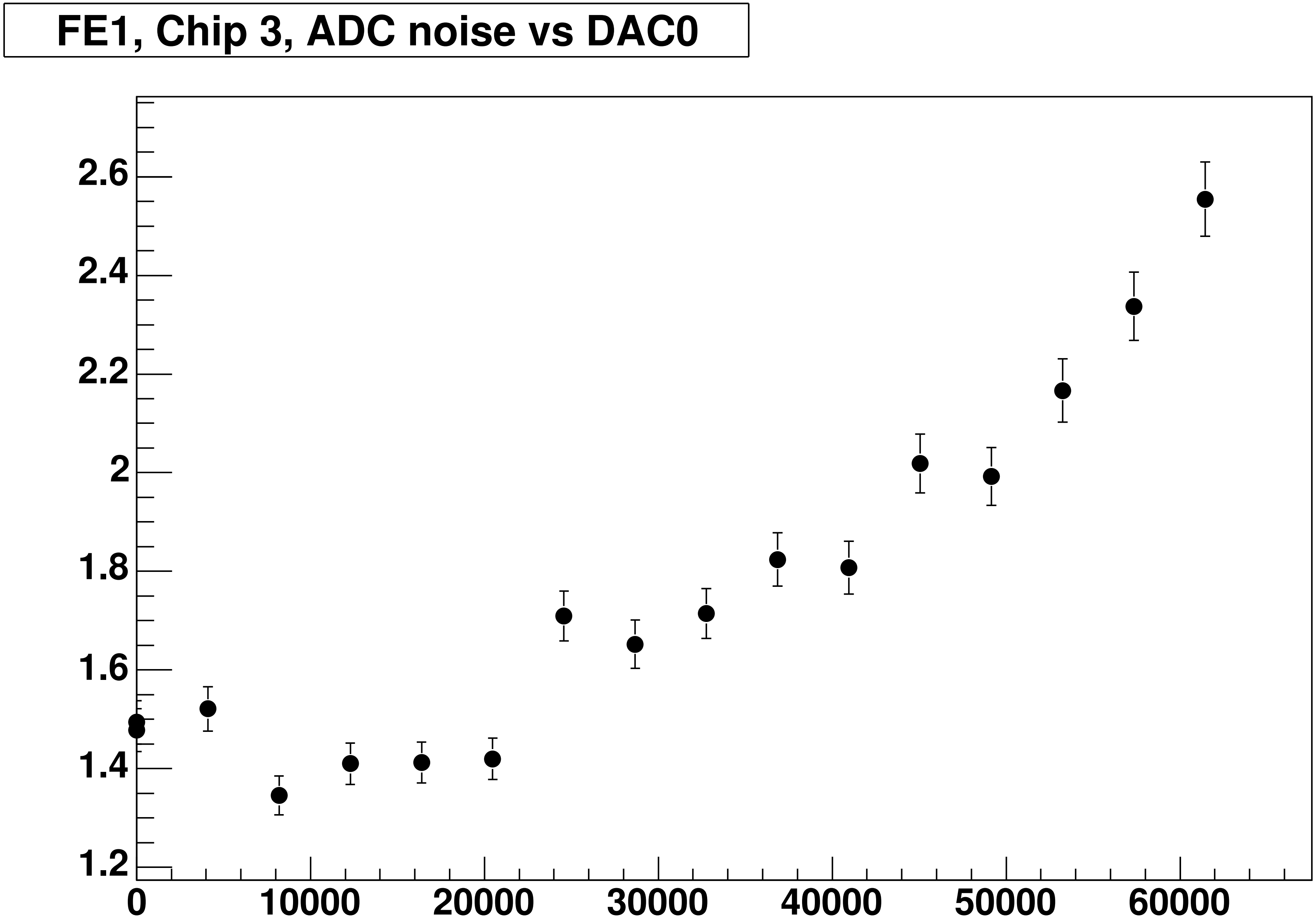
FE1, Chip 2, ADC mean vs DAC1
χ^2 / ndf 20.06 / 11
p0 -52.81 ± 0.04079
p1 -3.082e-07 ± 1.126e-06
-52.6
-52.7
-52.8
-52.9
-53
-53.1
0
10000
20000
30000
40000
50000
60000



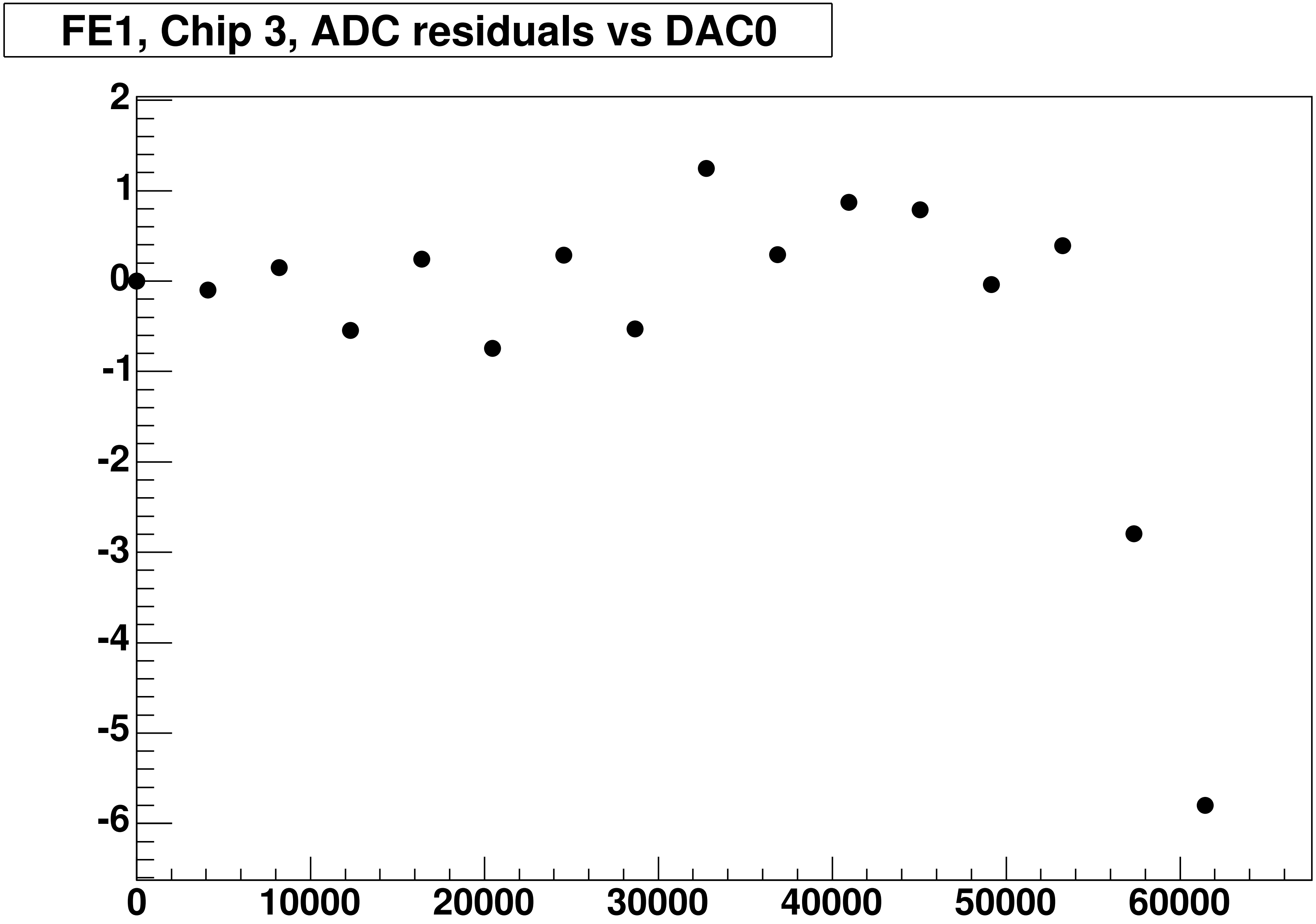
FE1, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

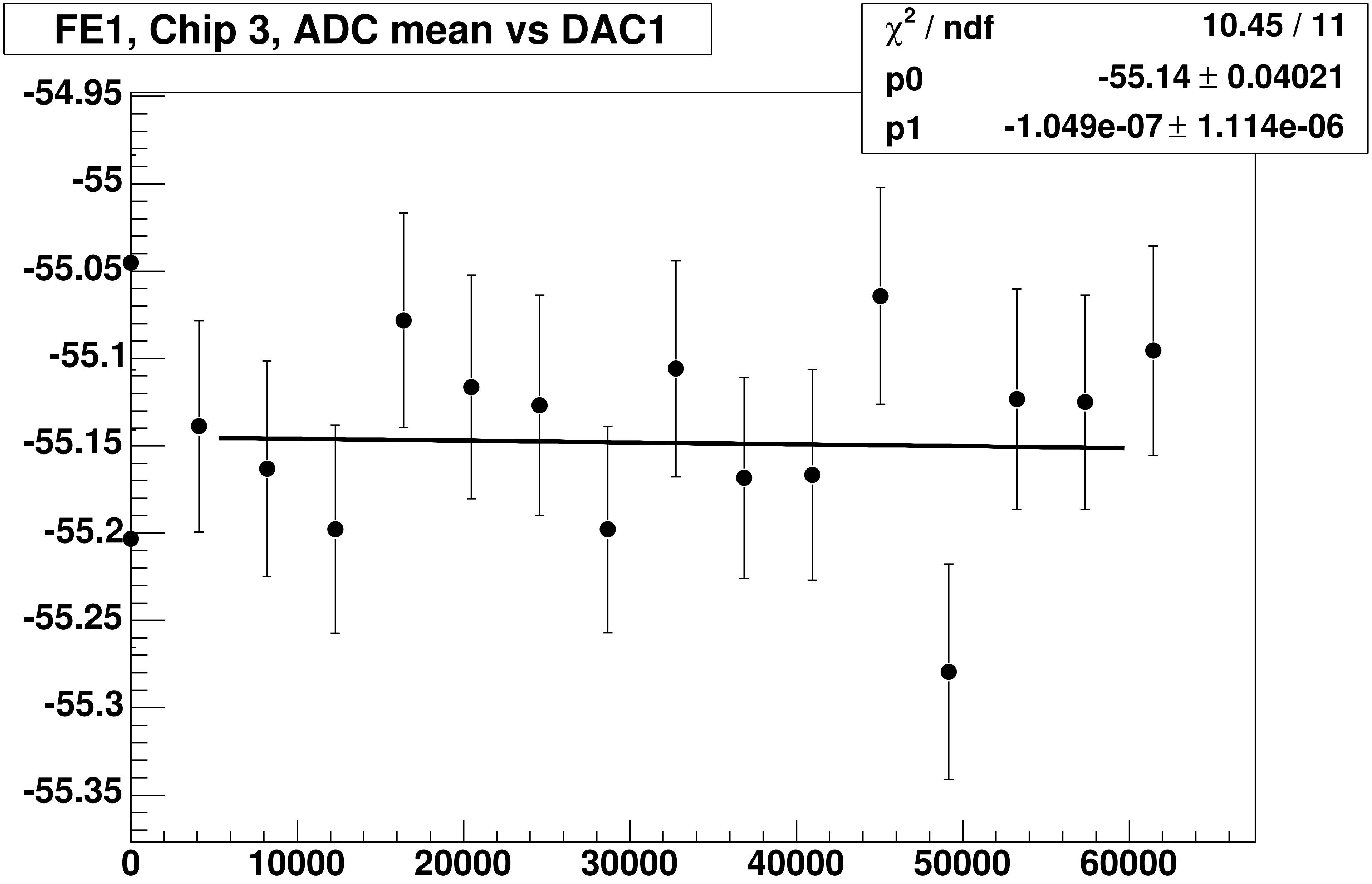

FE1, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE1, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1731 / 11
p0 -56.71 ± 0.04148
p1 0.4516 ± 1.317e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

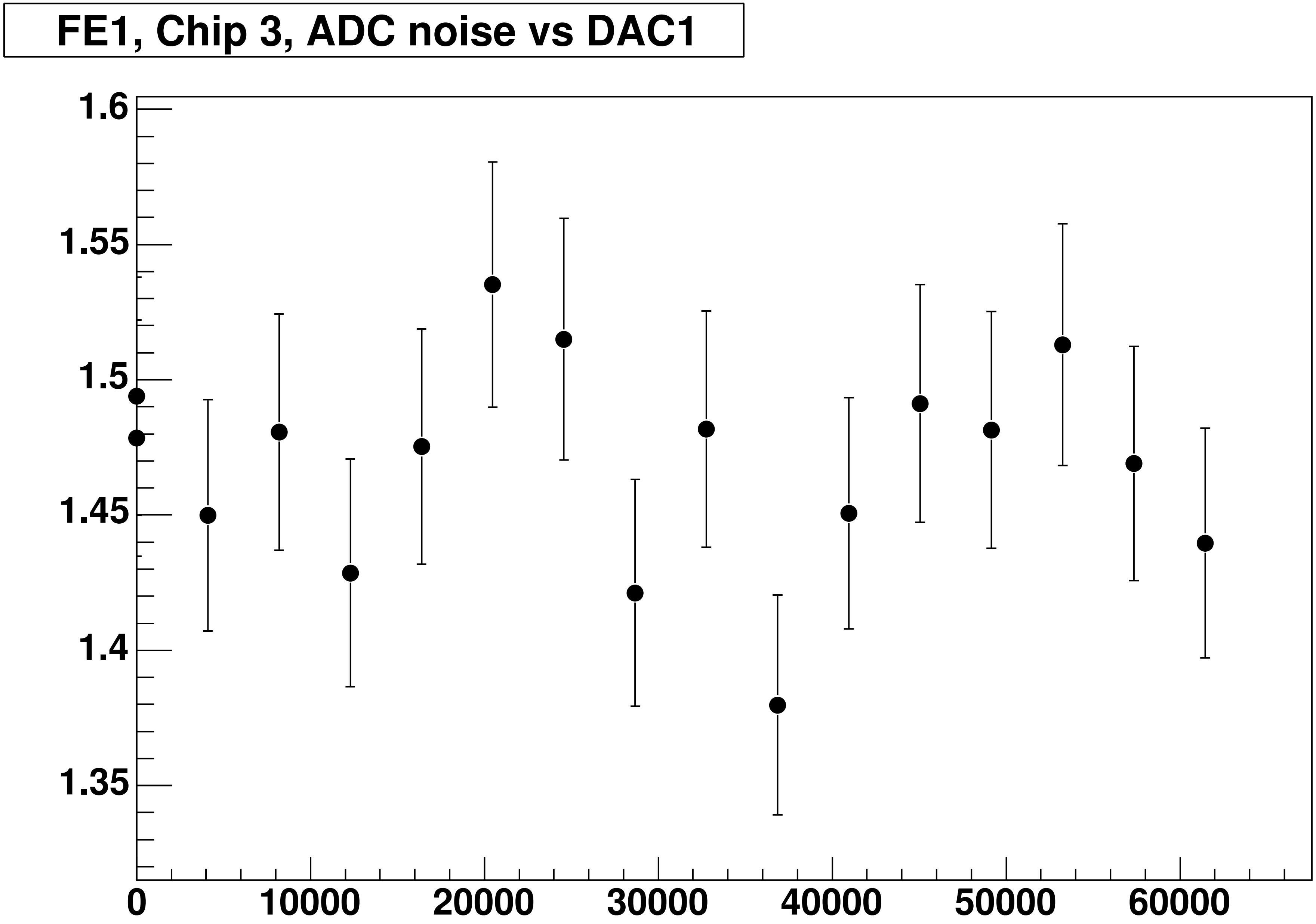


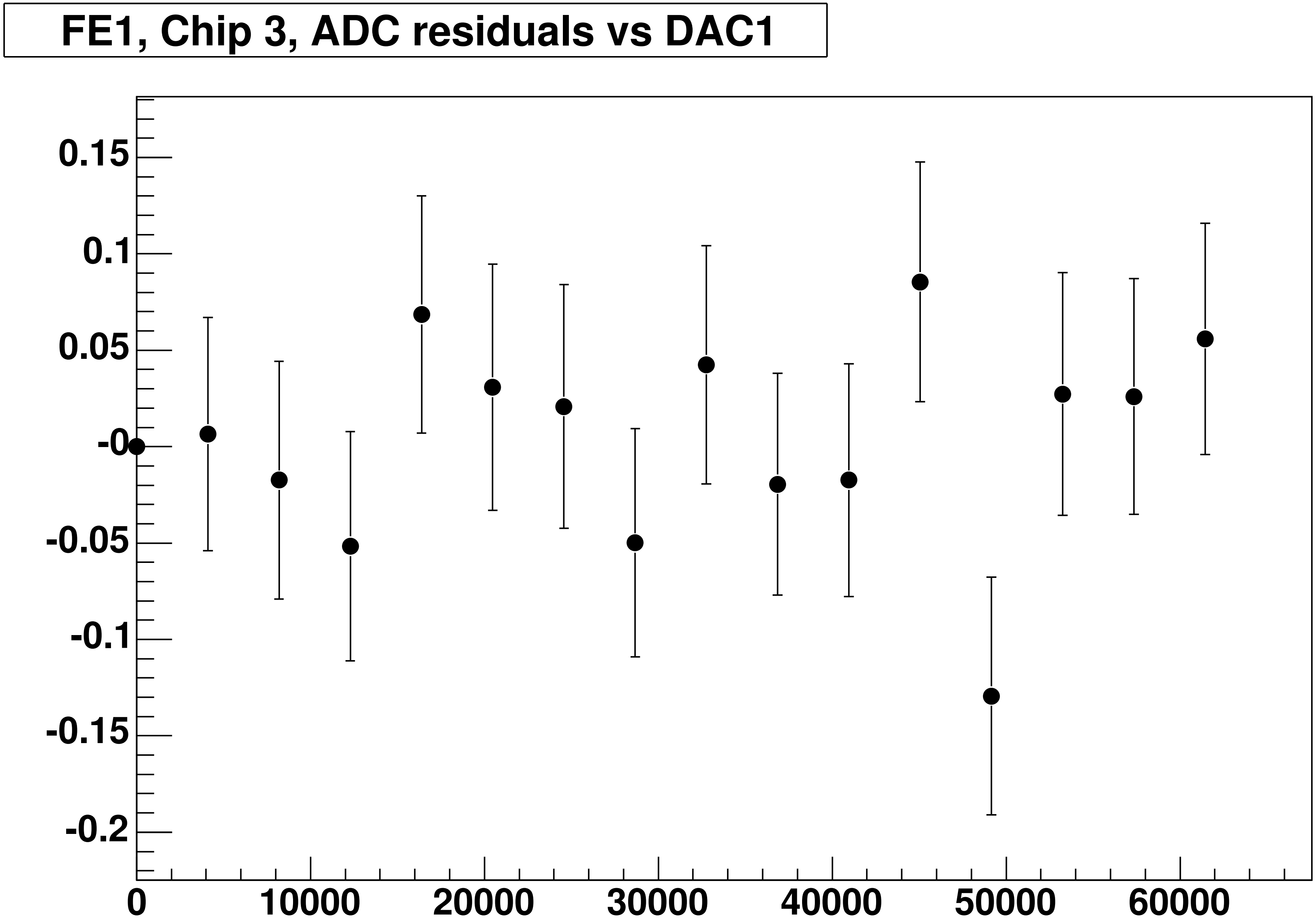
FE1, Chip 3, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

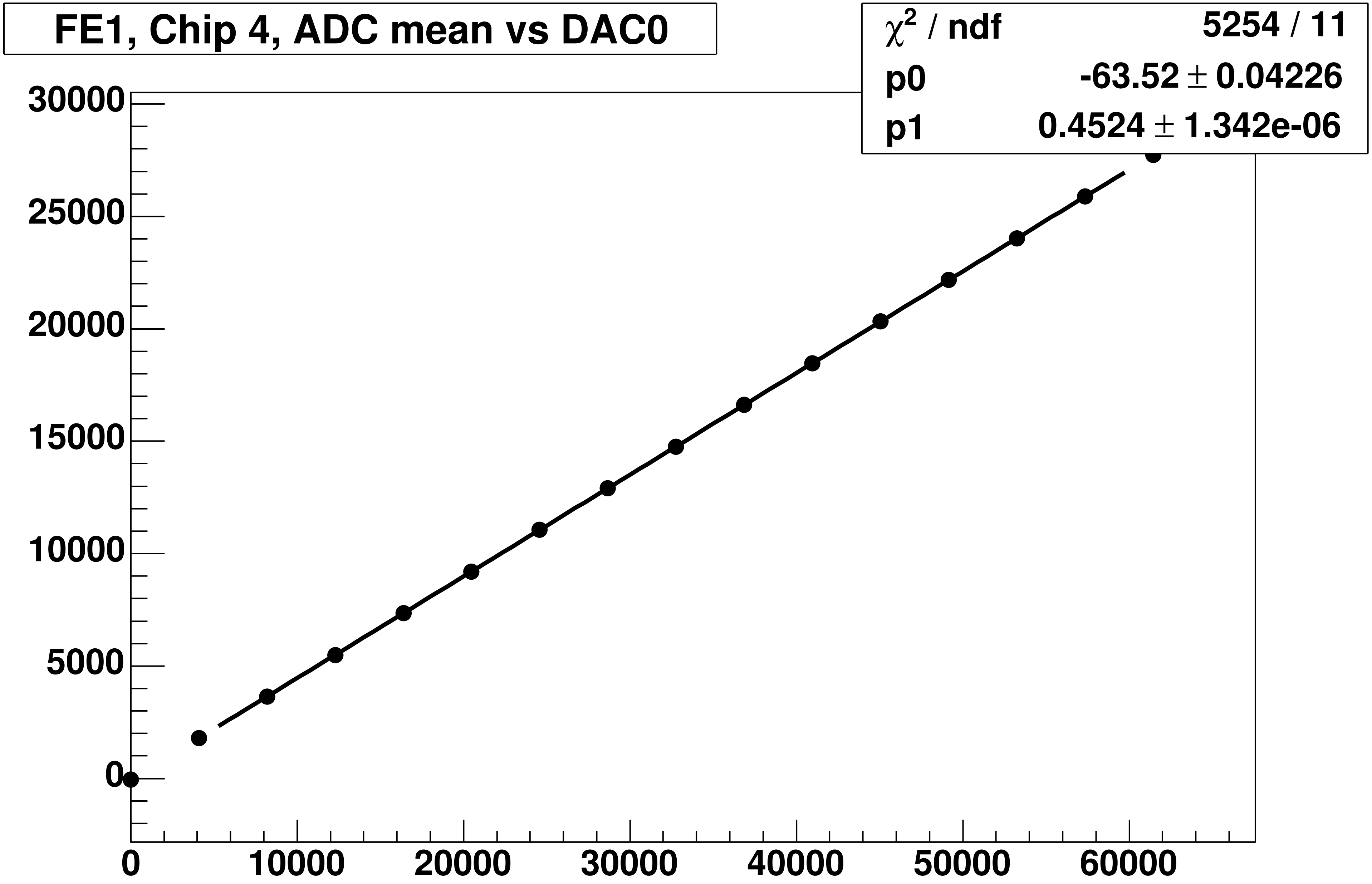

FE1, Chip 3, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



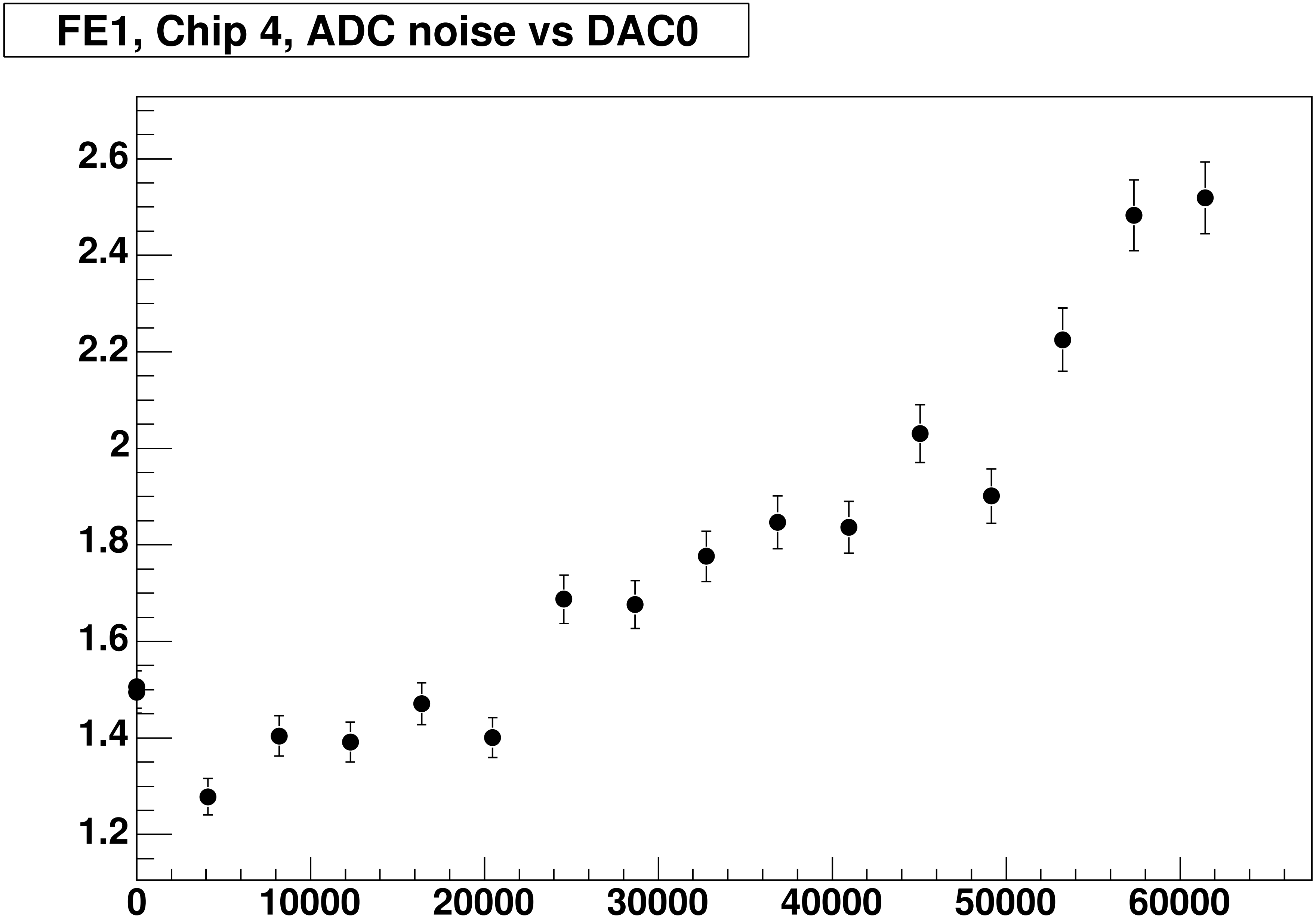
FE1, Chip 3, ADC mean vs DAC1
χ² / ndf 10.45 / 11
p0 -55.14 ± 0.04021
p1 -1.049e-07 ± 1.114e-06
-54.95
-55
-55.05
-55.1
-55.15
-55.2
-55.25
-55.3
-55.35
0
10000
20000
30000
40000
50000
60000

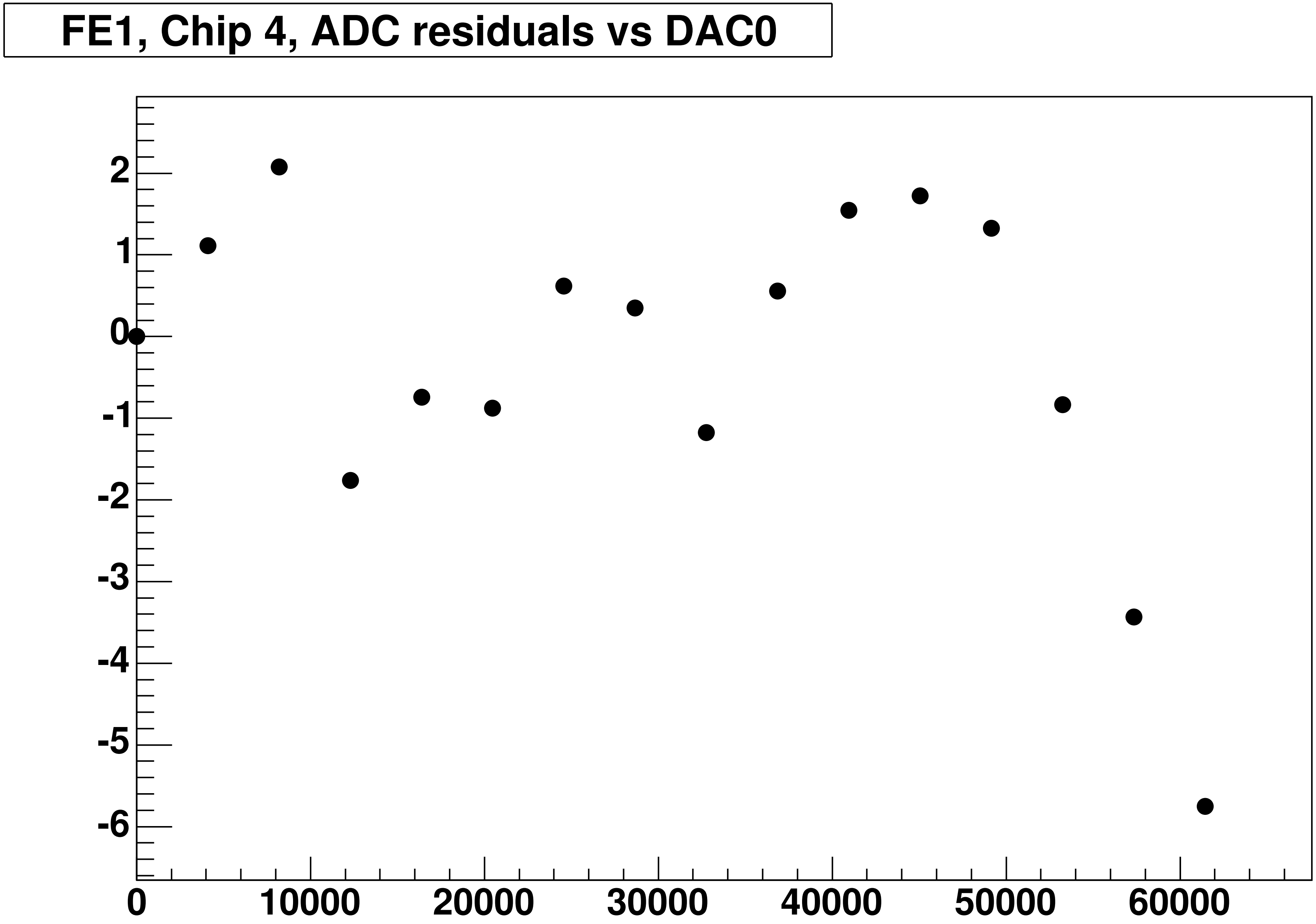

FE1, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

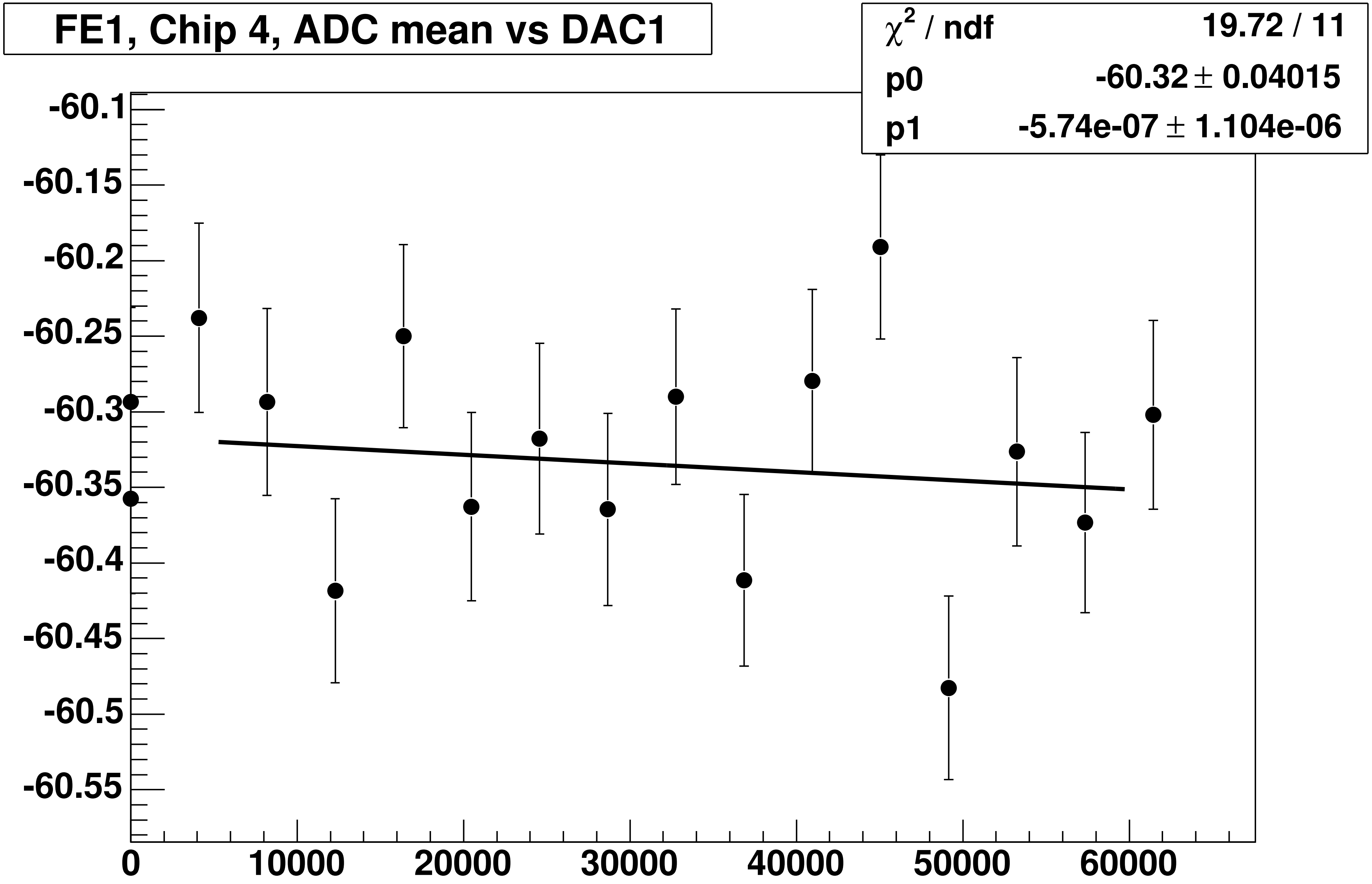

FE1, Chip 3, ADC residuals vs DAC1
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



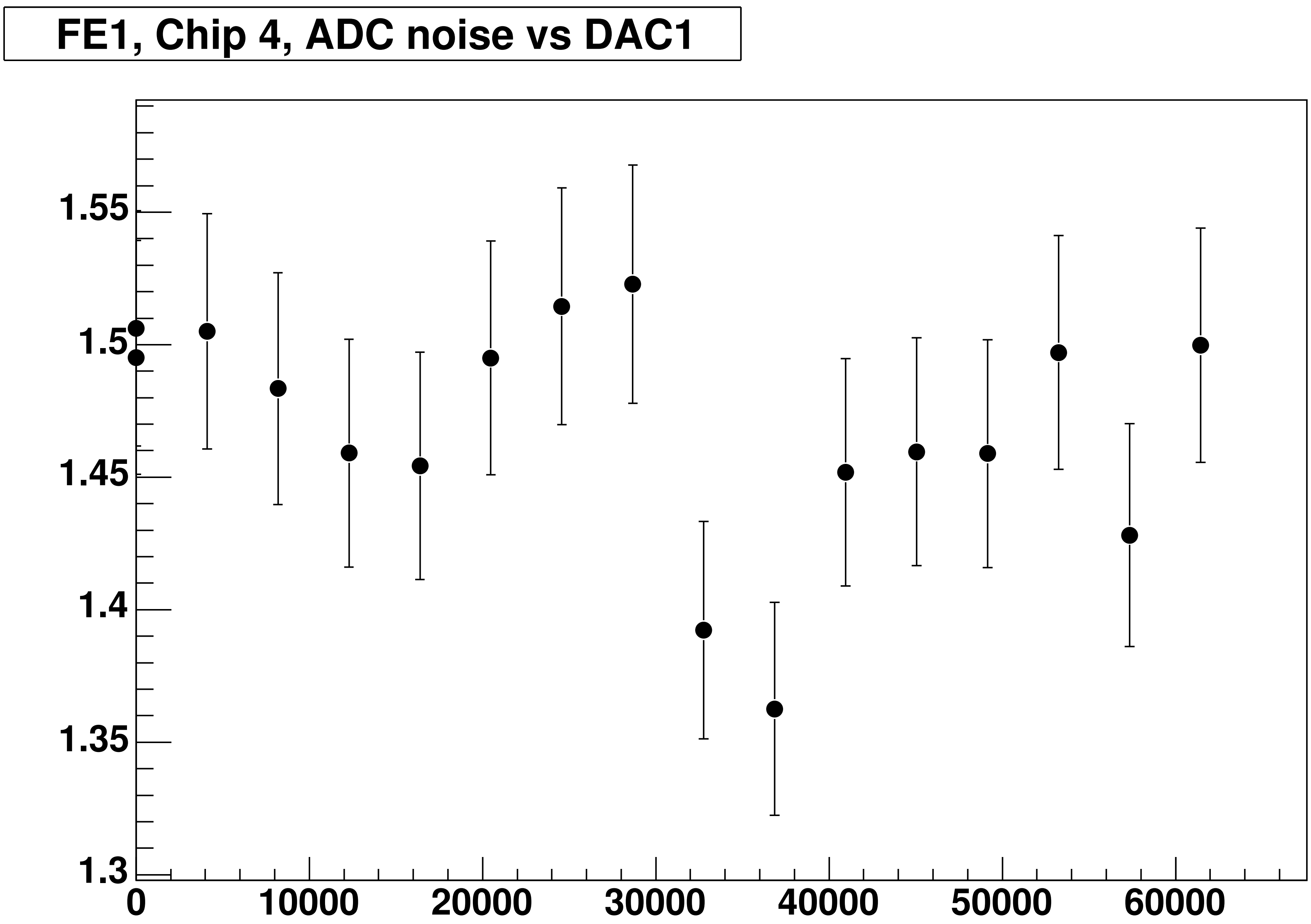
FE1, Chip 4, ADC mean vs DAC0
χ^2 / ndf 5254 / 11
p0 -63.52 ± 0.04226
p1 0.4524 ± 1.342e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

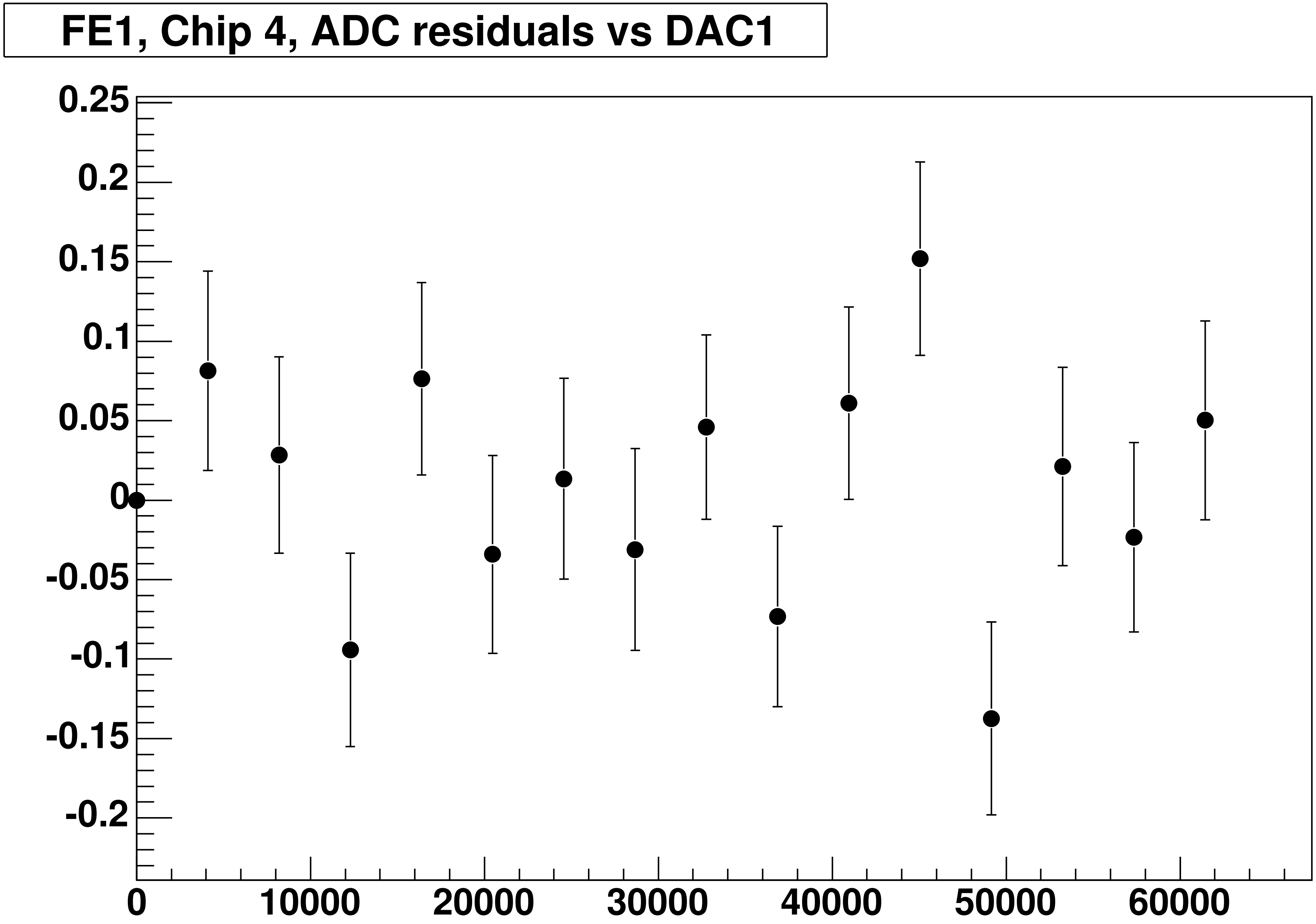

FE1, Chip 4, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

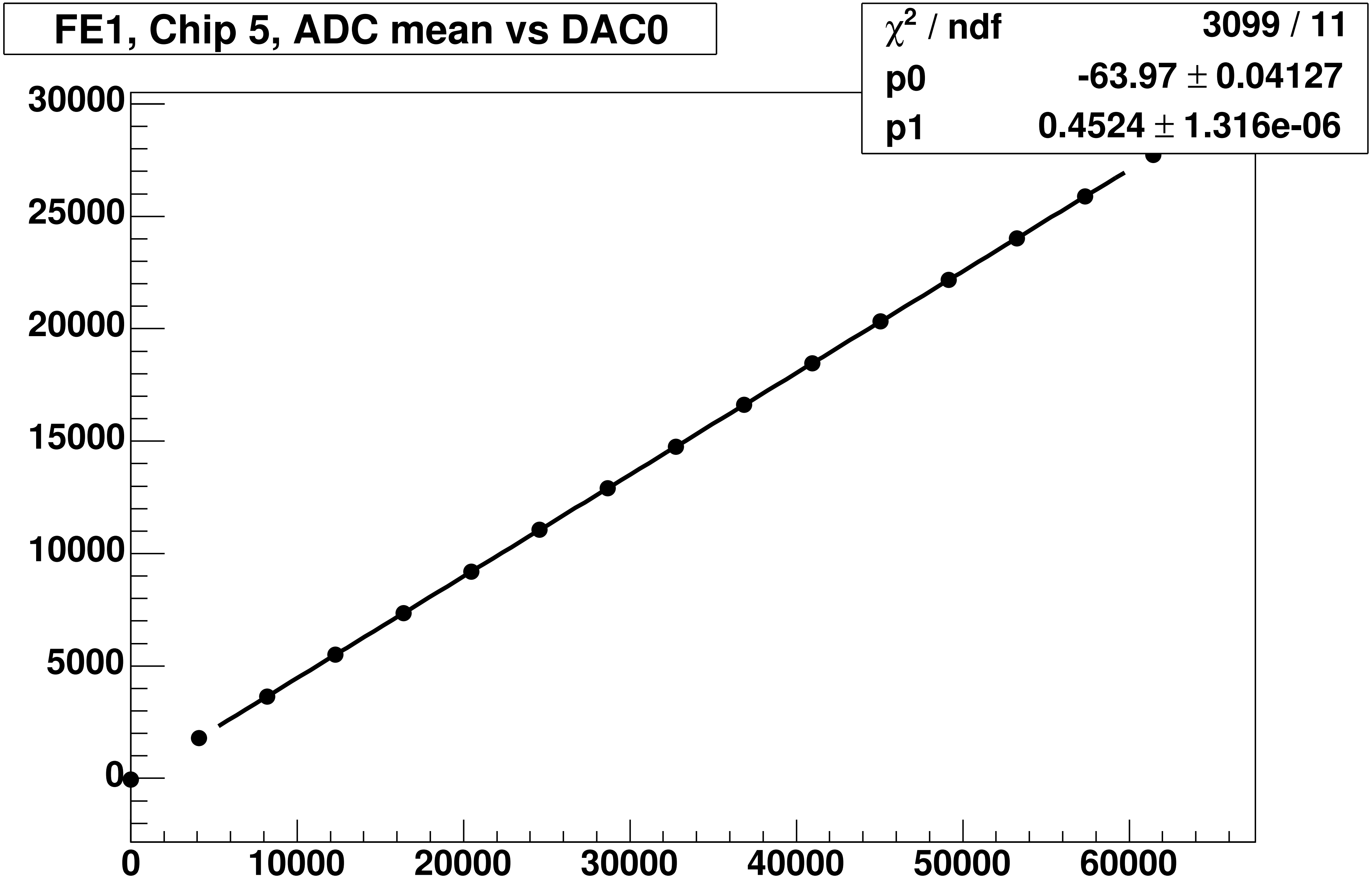


FE1, Chip 4, ADC mean vs DAC1
χ^2 / ndf 19.72 / 11
p0 -60.32 ± 0.04015
p1 -5.74e-07 ± 1.104e-06
-60.1
-60.15
-60.2
-60.25
-60.3
-60.35
-60.4
-60.45
-60.5
-60.55
0
10000
20000
30000
40000
50000
60000

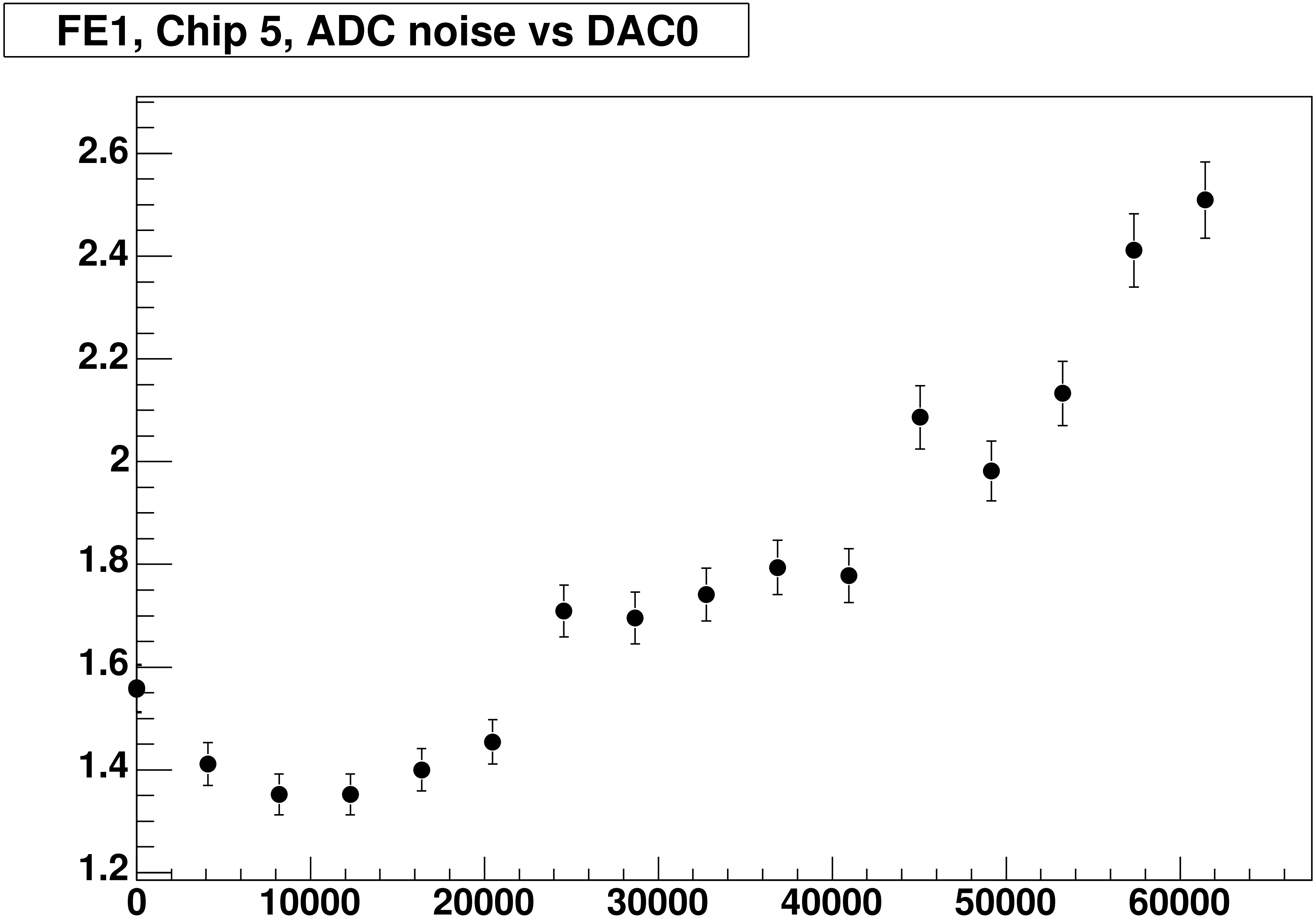

FE1, Chip 4, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



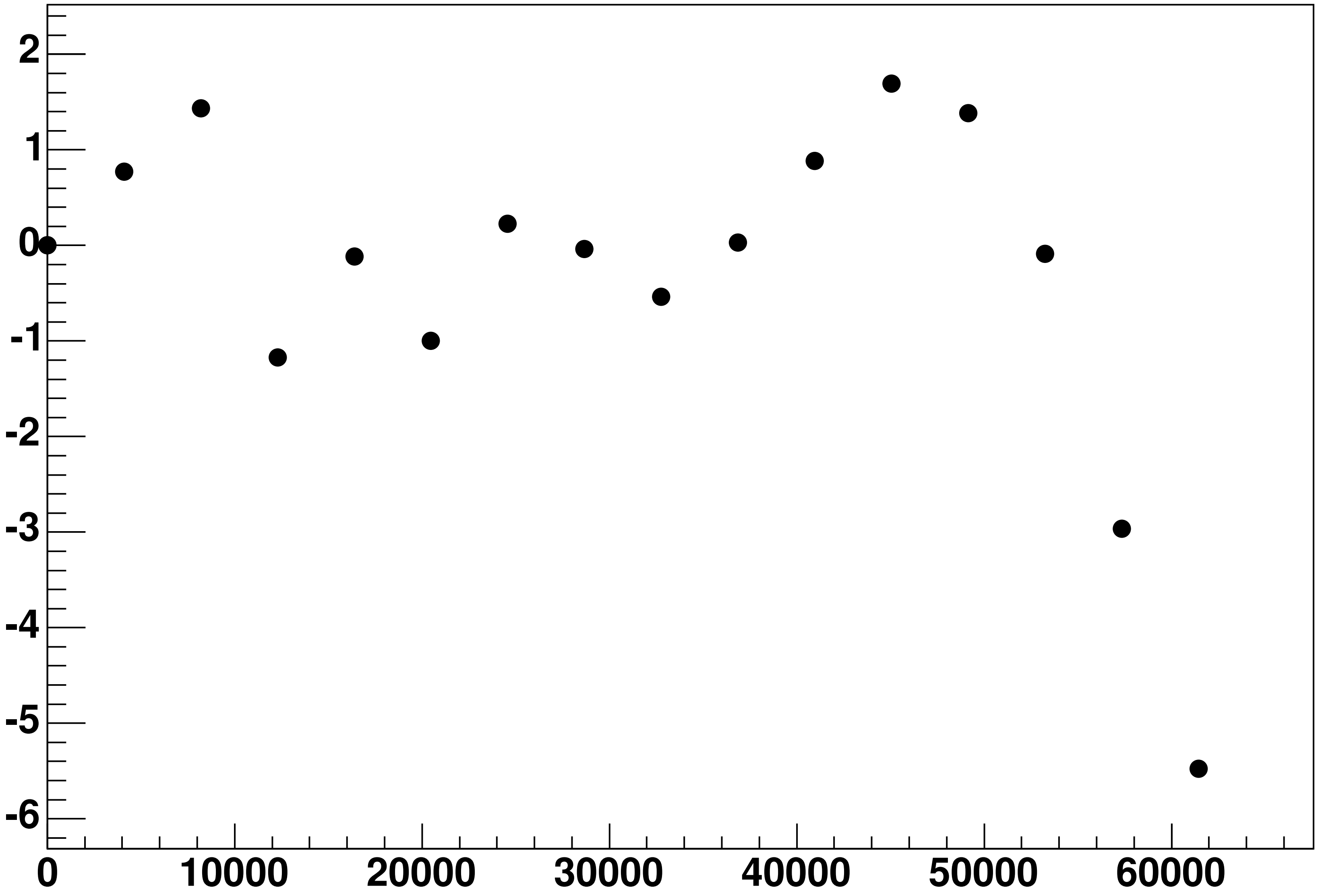
FE1, Chip 4, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

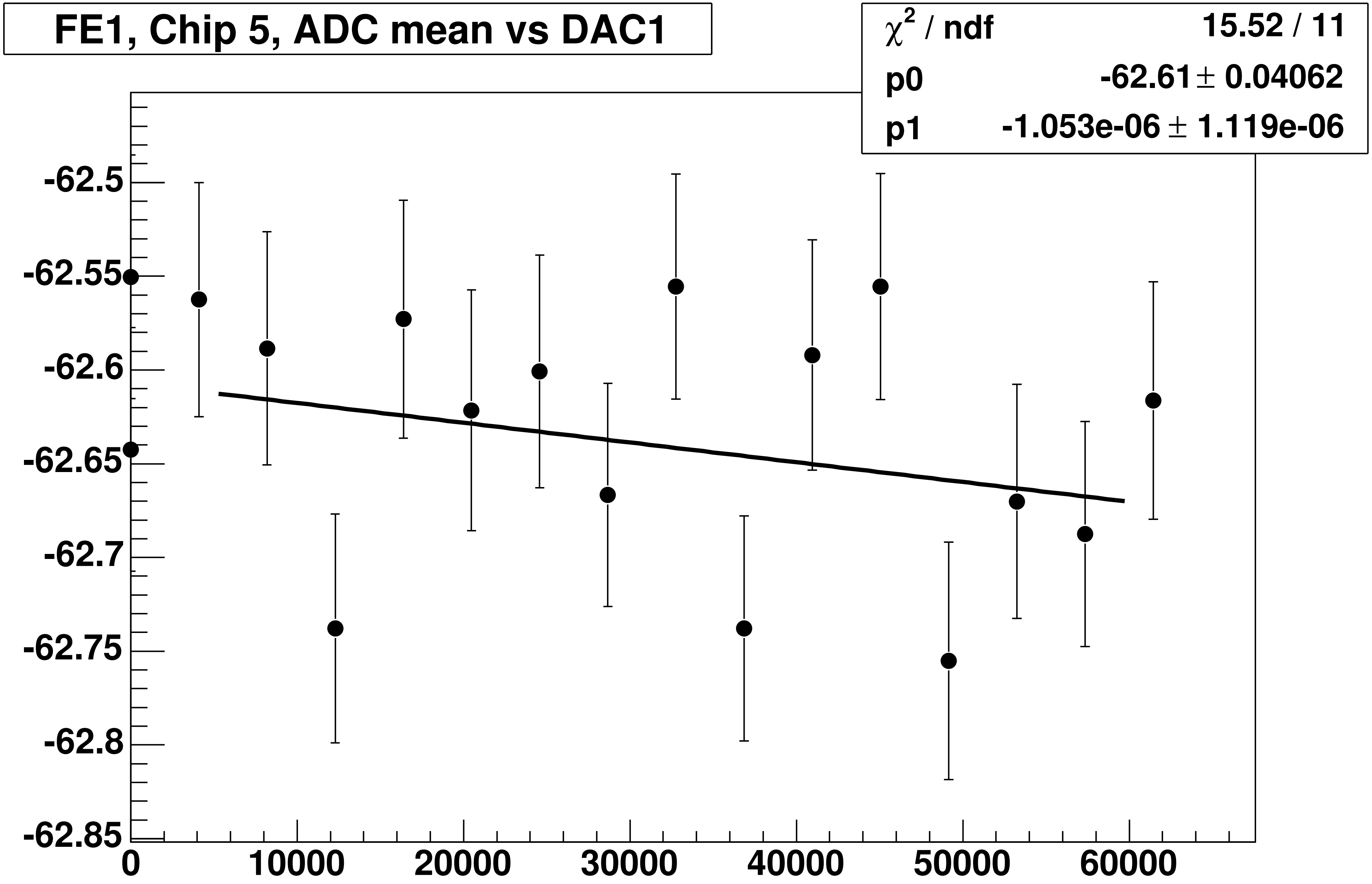


FE1, Chip 5, ADC mean vs DAC0
χ^2 / ndf 3099 / 11
p0 -63.97 ± 0.04127
p1 0.4524 ± 1.316e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

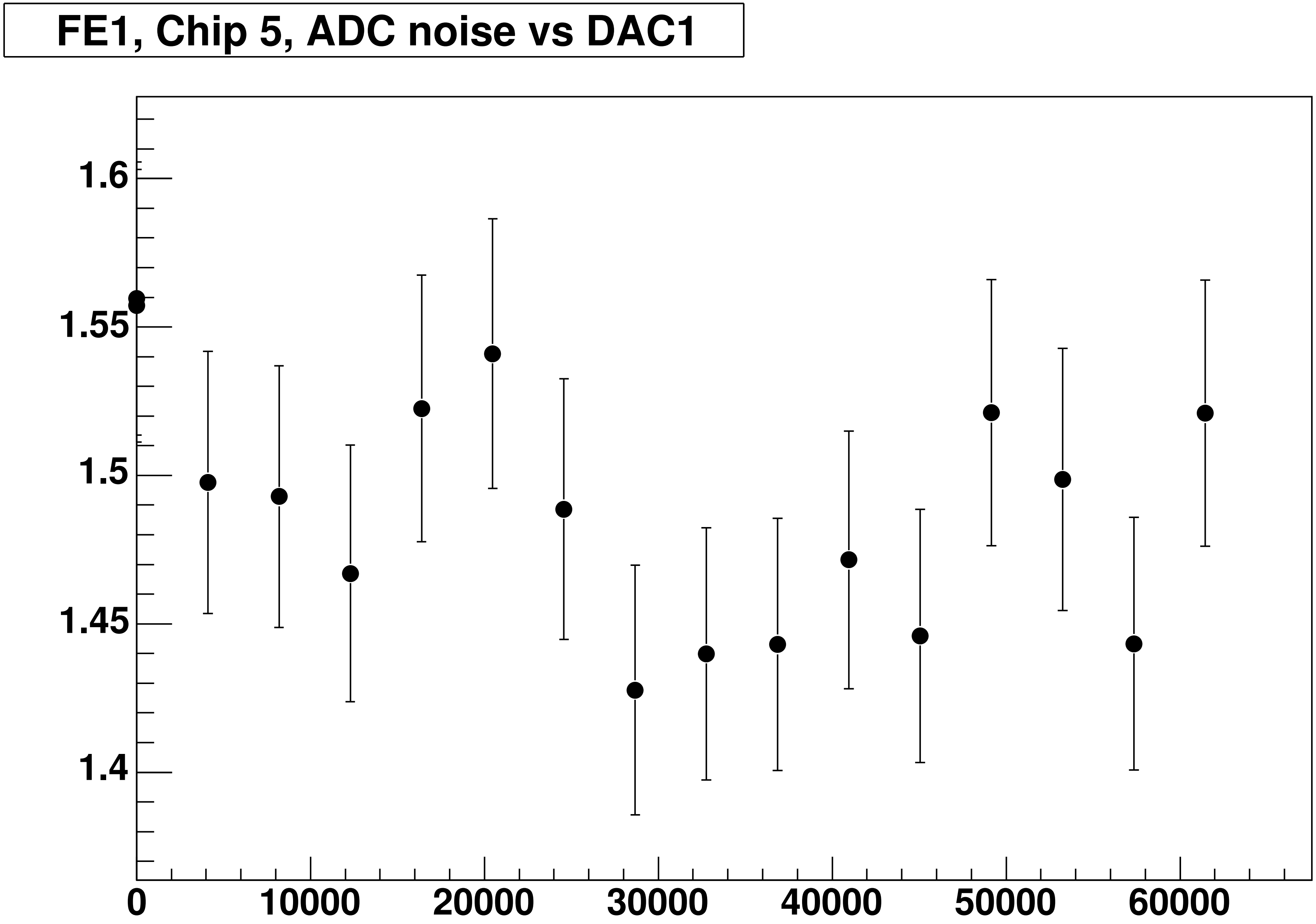

FE1, Chip 5, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

FE1, Chip 5, ADC residuals vs DAC0

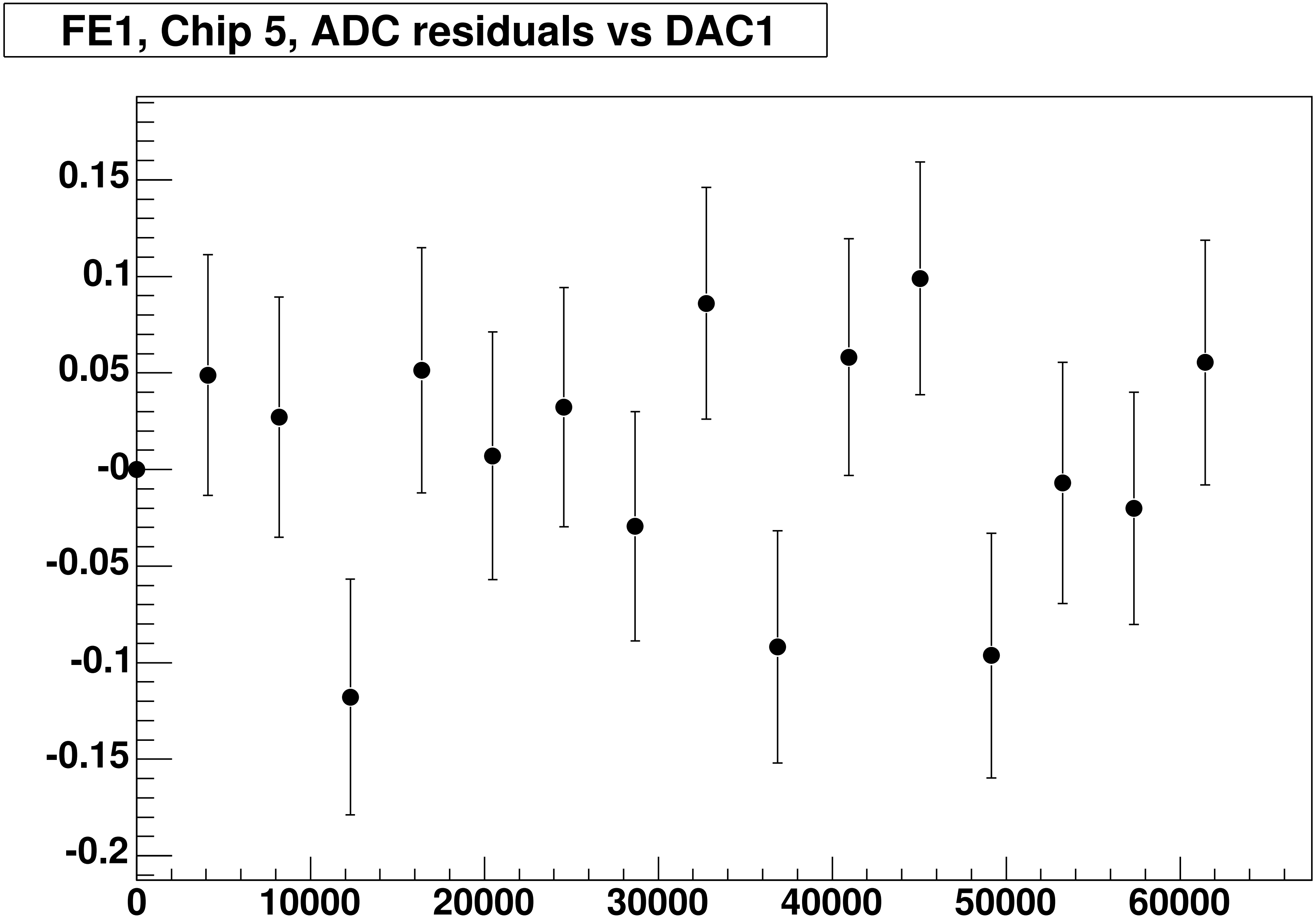




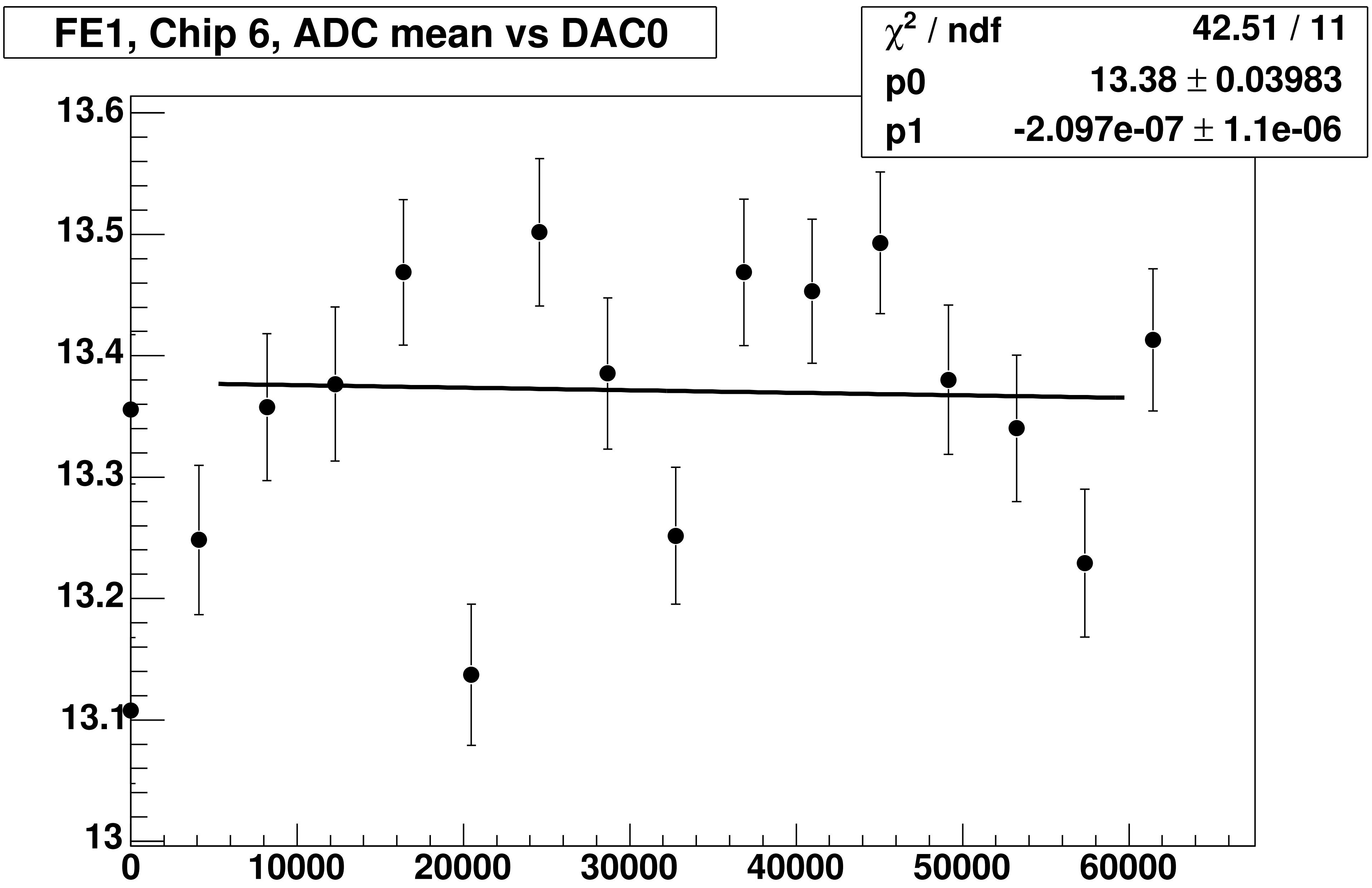
FE1, Chip 5, ADC mean vs DAC1
χ2 / ndf 15.52 / 11
p0 -62.61 ± 0.04062
p1 -1.053e-06 ± 1.119e-06
-62.5
-62.55
-62.6
-62.65
-62.7
-62.75
-62.8
-62.85
0
10000
20000
30000
40000
50000
60000

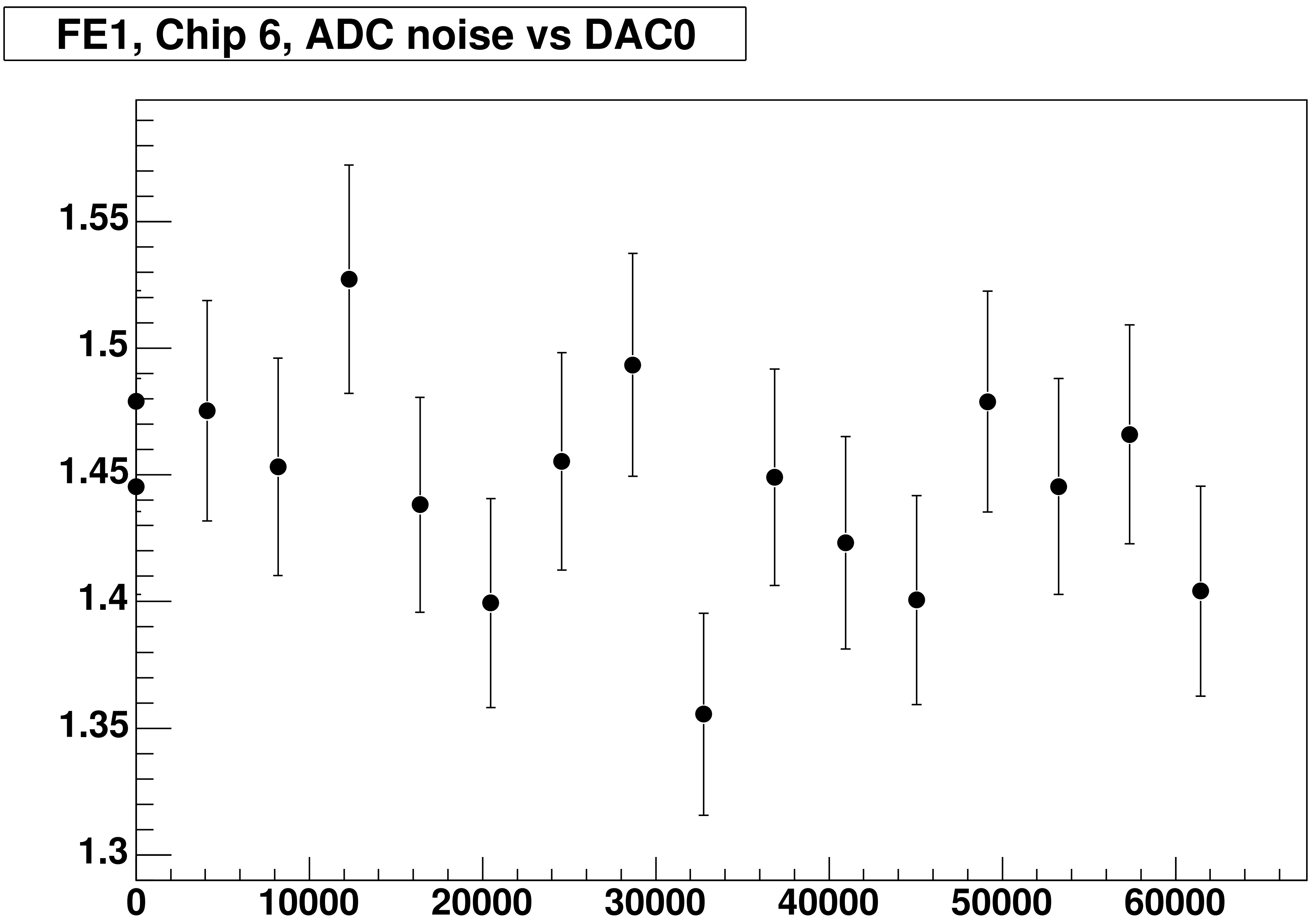


FE1, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

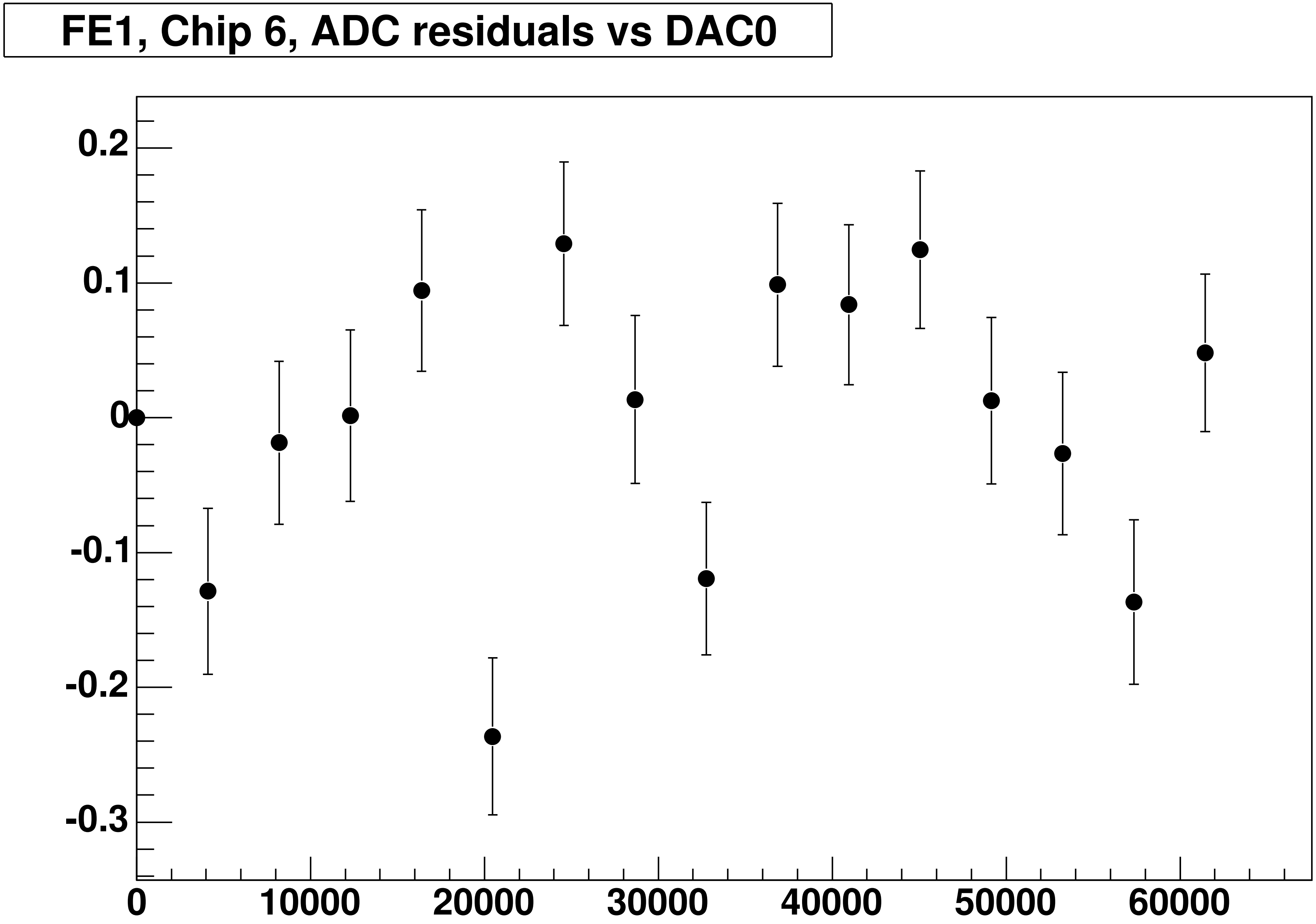


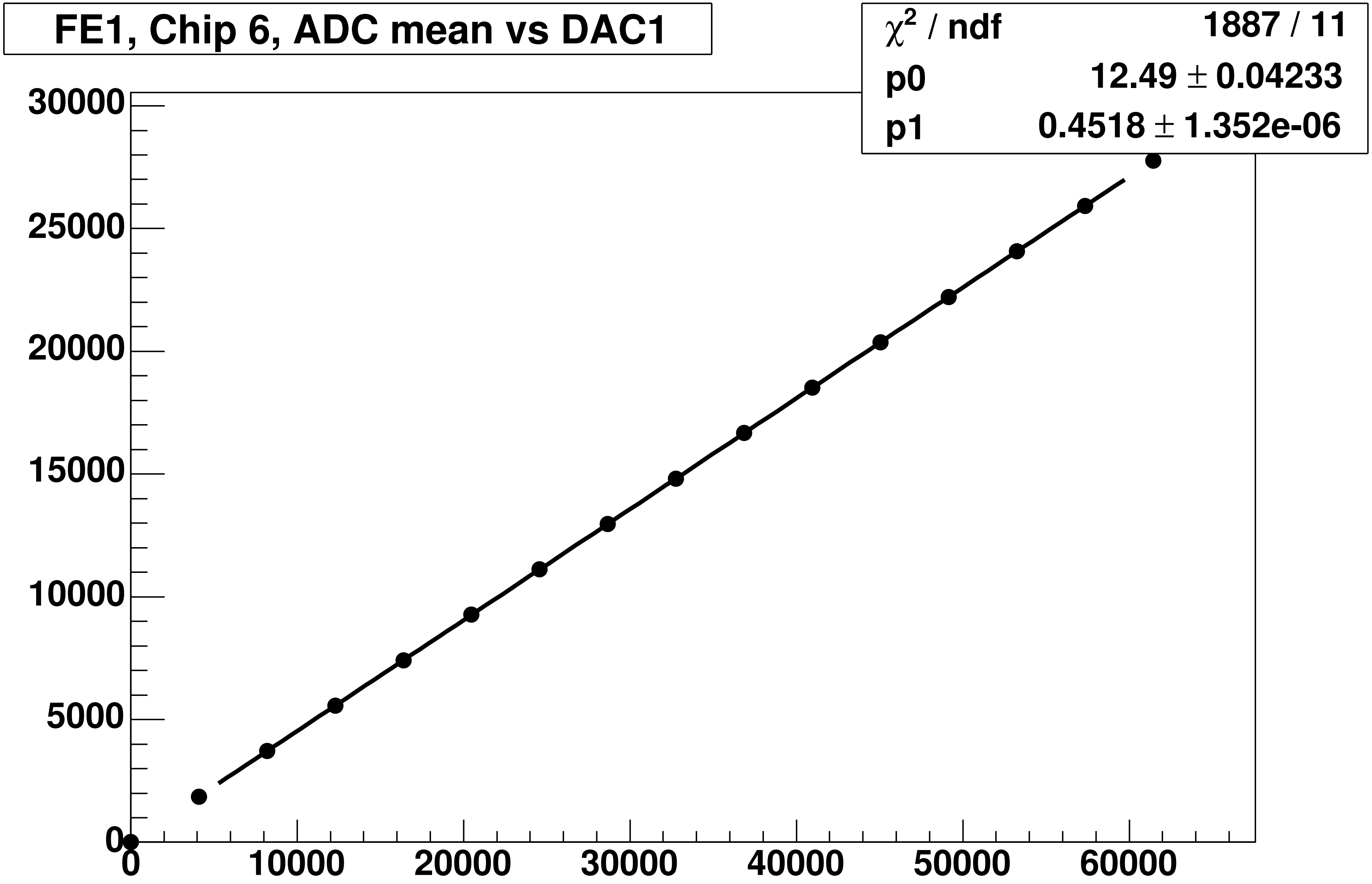
FE1, Chip 5, ADC residuals vs DAC1
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

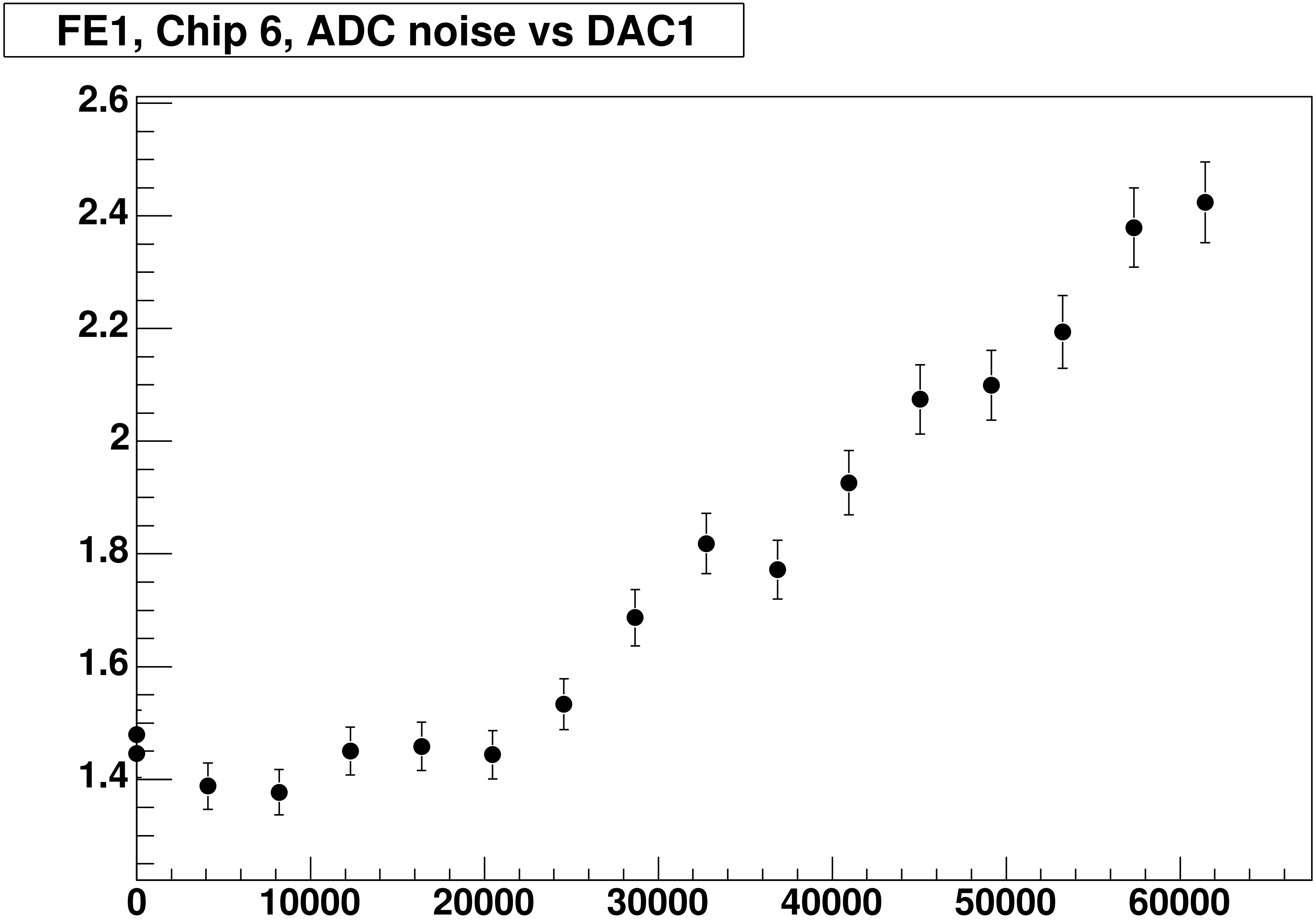

FE1, Chip 6, ADC mean vs DAC0
χ^2 / ndf 42.51 / 11
p0 13.38 ± 0.03983
p1 -2.097e-07 ± 1.1e-06
13.6
13.5
13.4
13.3
13.2
13.1
13
0
10000
20000
30000
40000
50000
60000

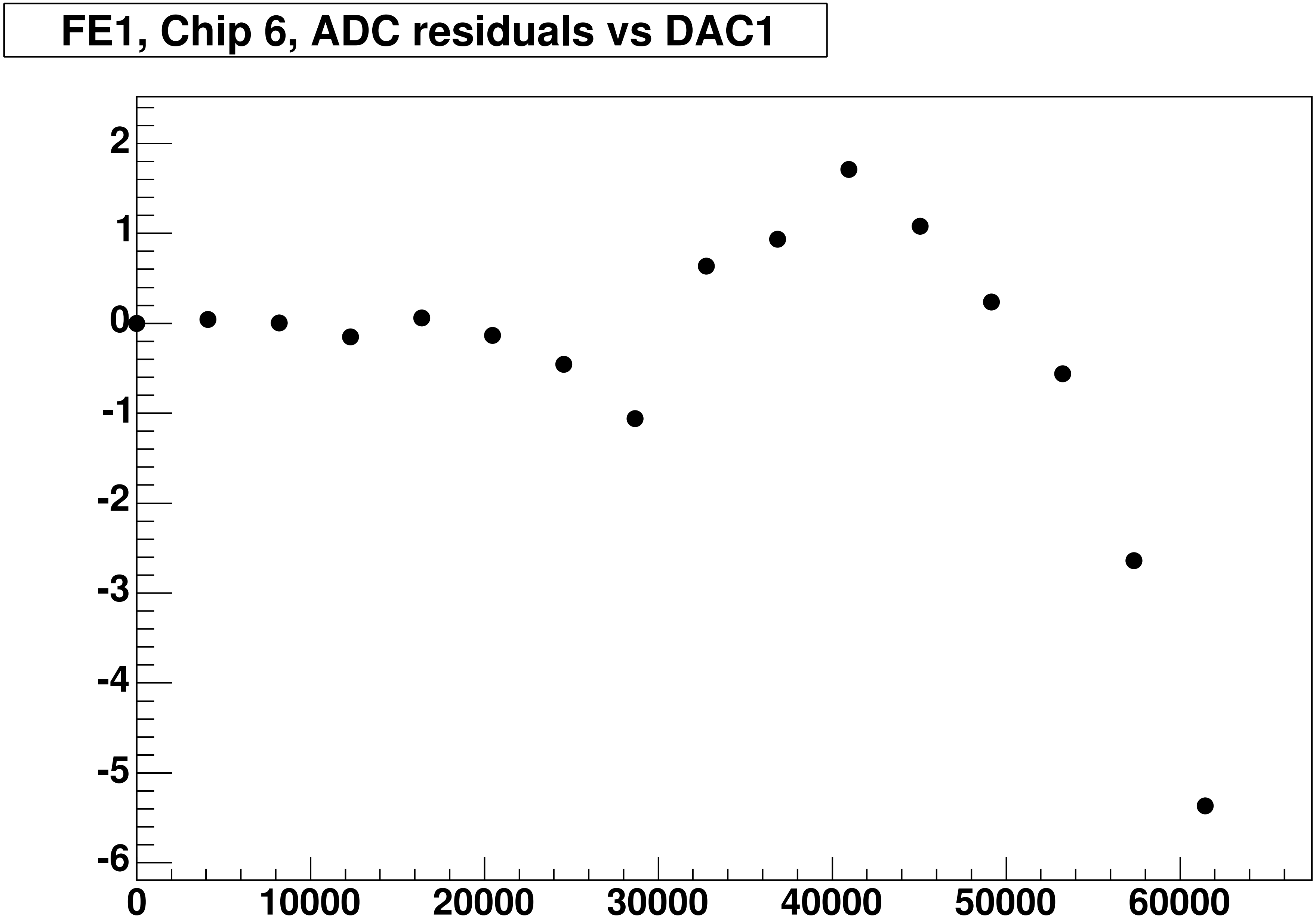


FE1, Chip 6, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

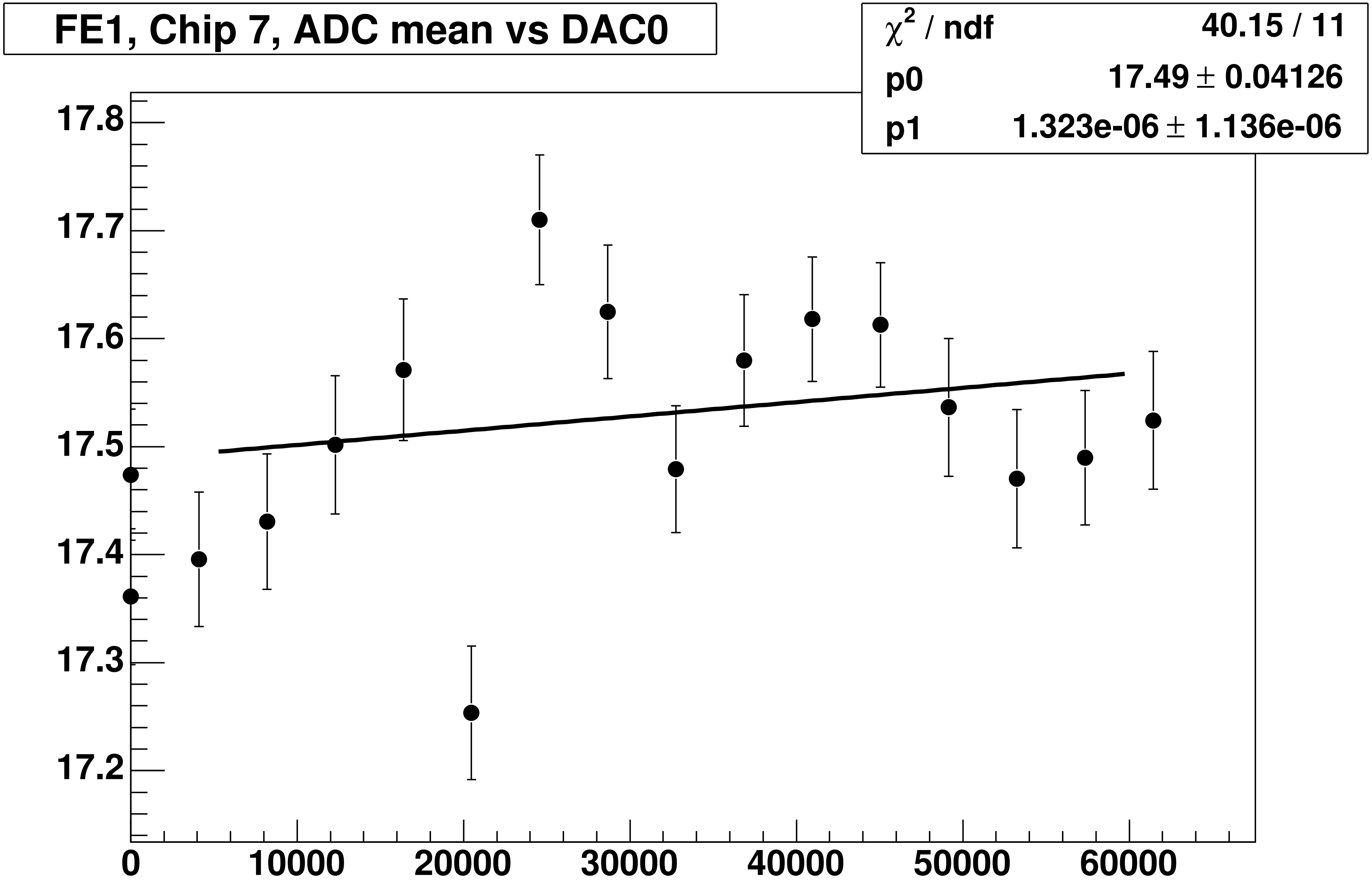

FE1, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE1, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1887 / 11
p0 12.49 ± 0.04233
p1 0.4518 ± 1.352e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

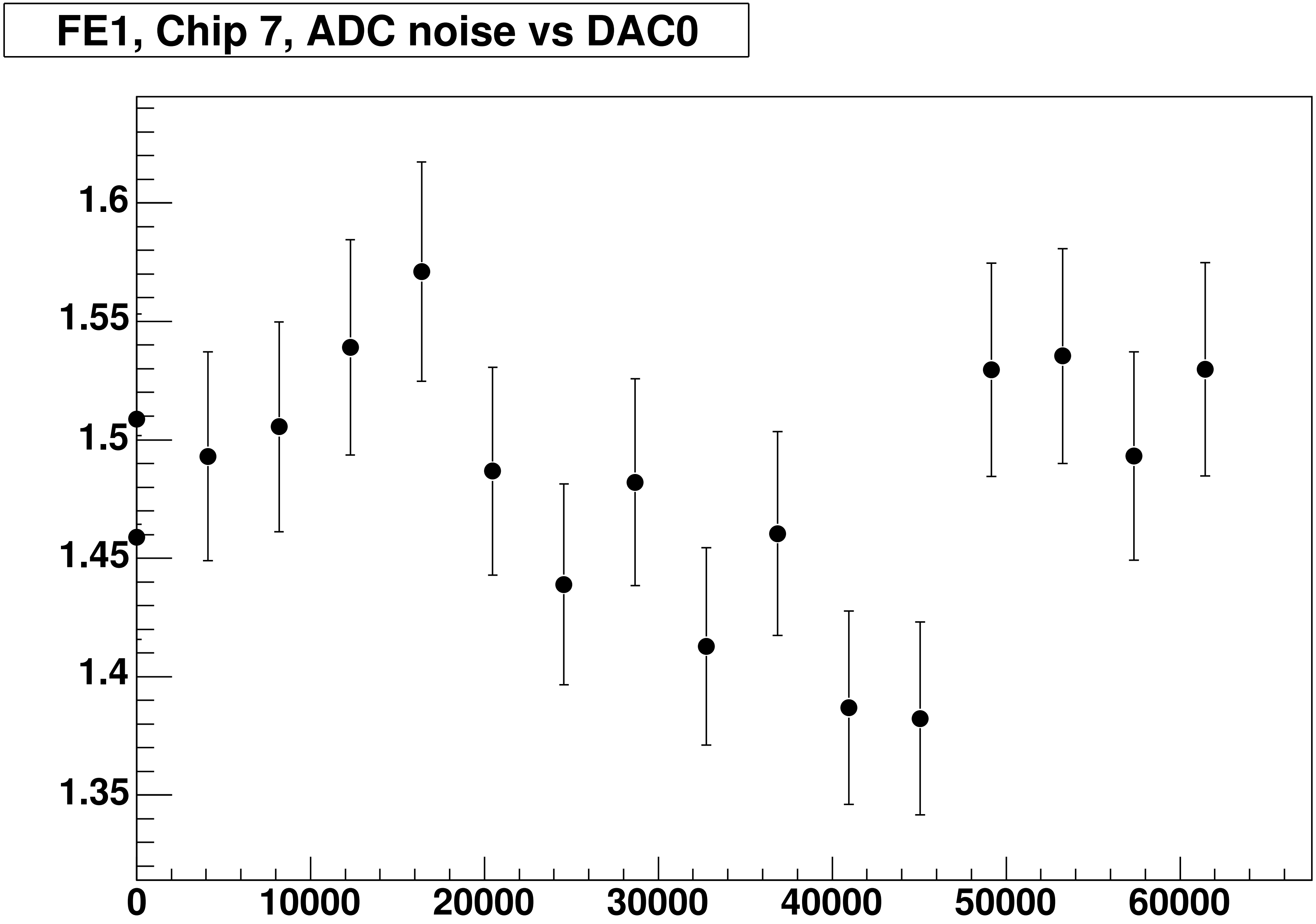

FE1, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



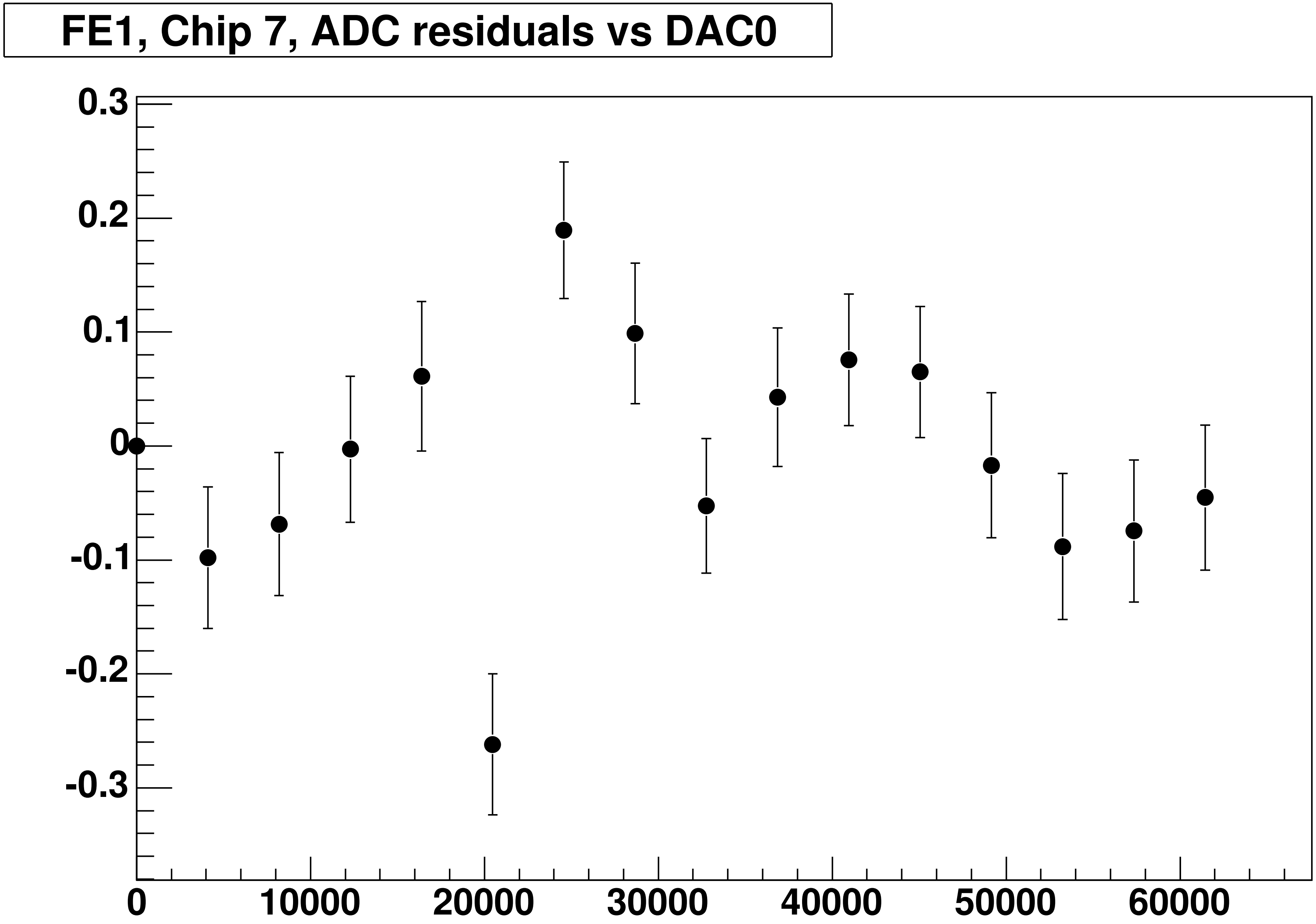
FE1, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

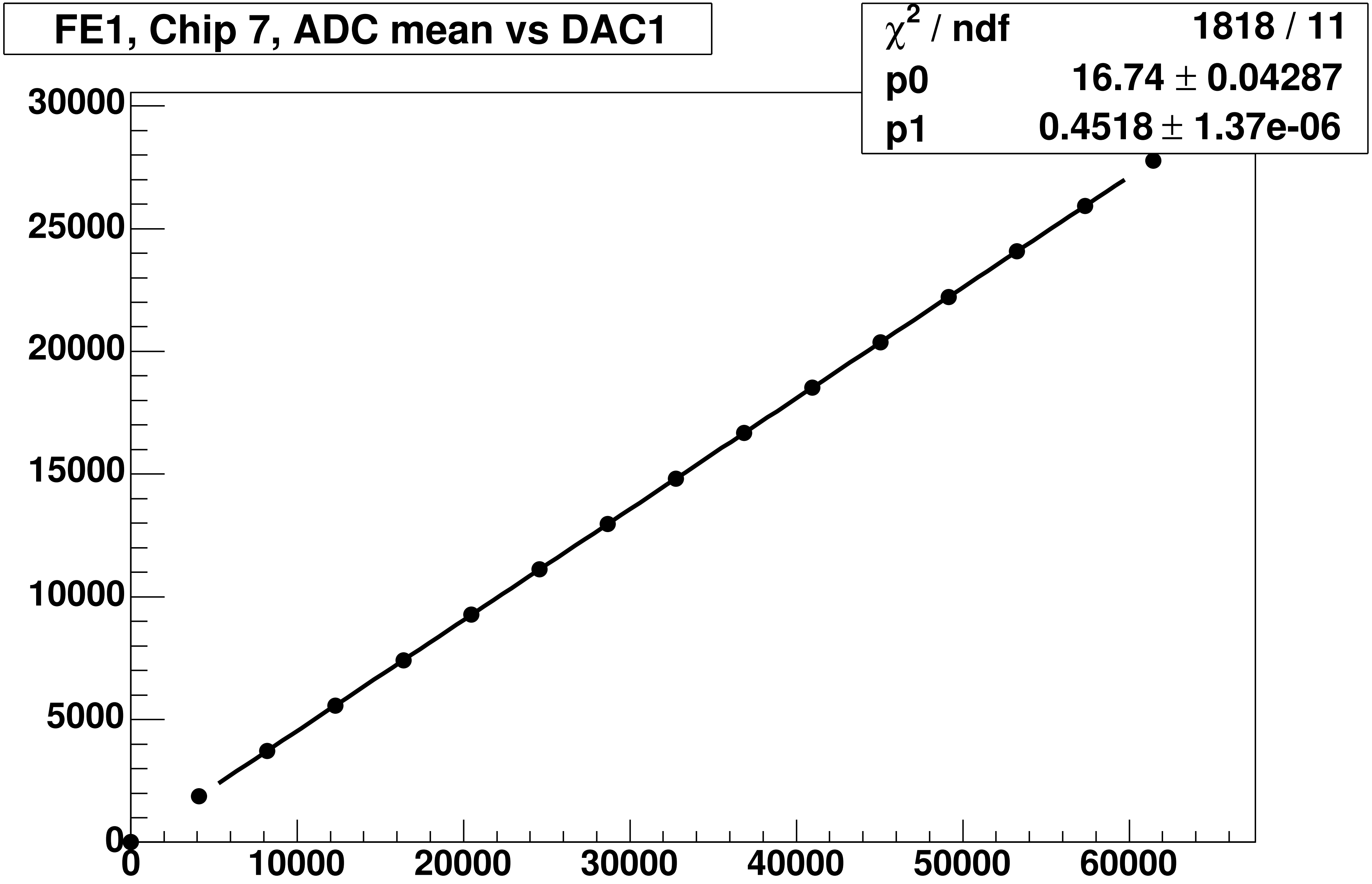


FE1, Chip 7, ADC mean vs DAC0
χ^2 / ndf 40.15 / 11
p0 17.49 ± 0.04126
p1 1.323e-06 ± 1.136e-06
17.2
17.3
17.4
17.5
17.6
17.7
17.8
0
10000
20000
30000
40000
50000
60000

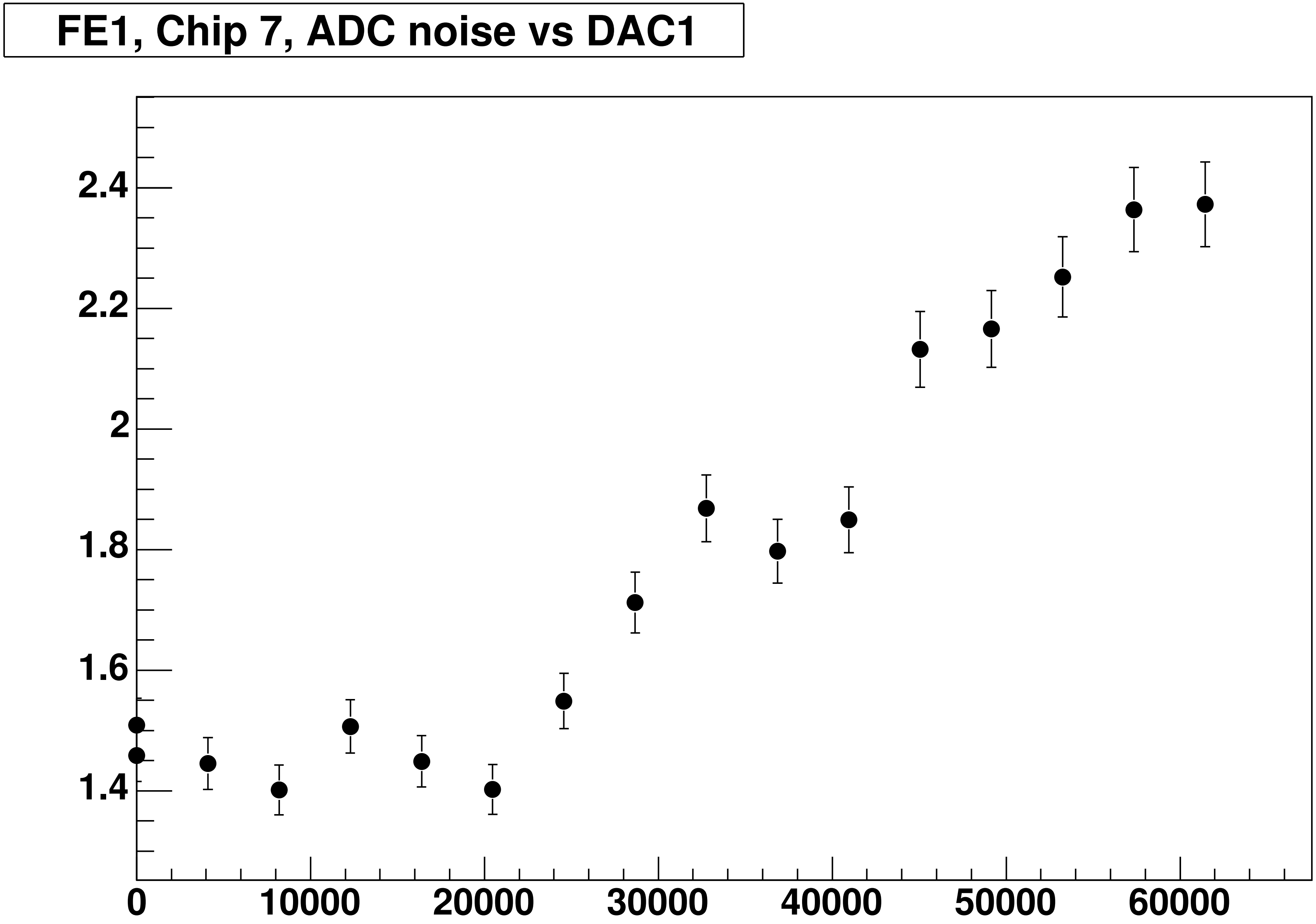


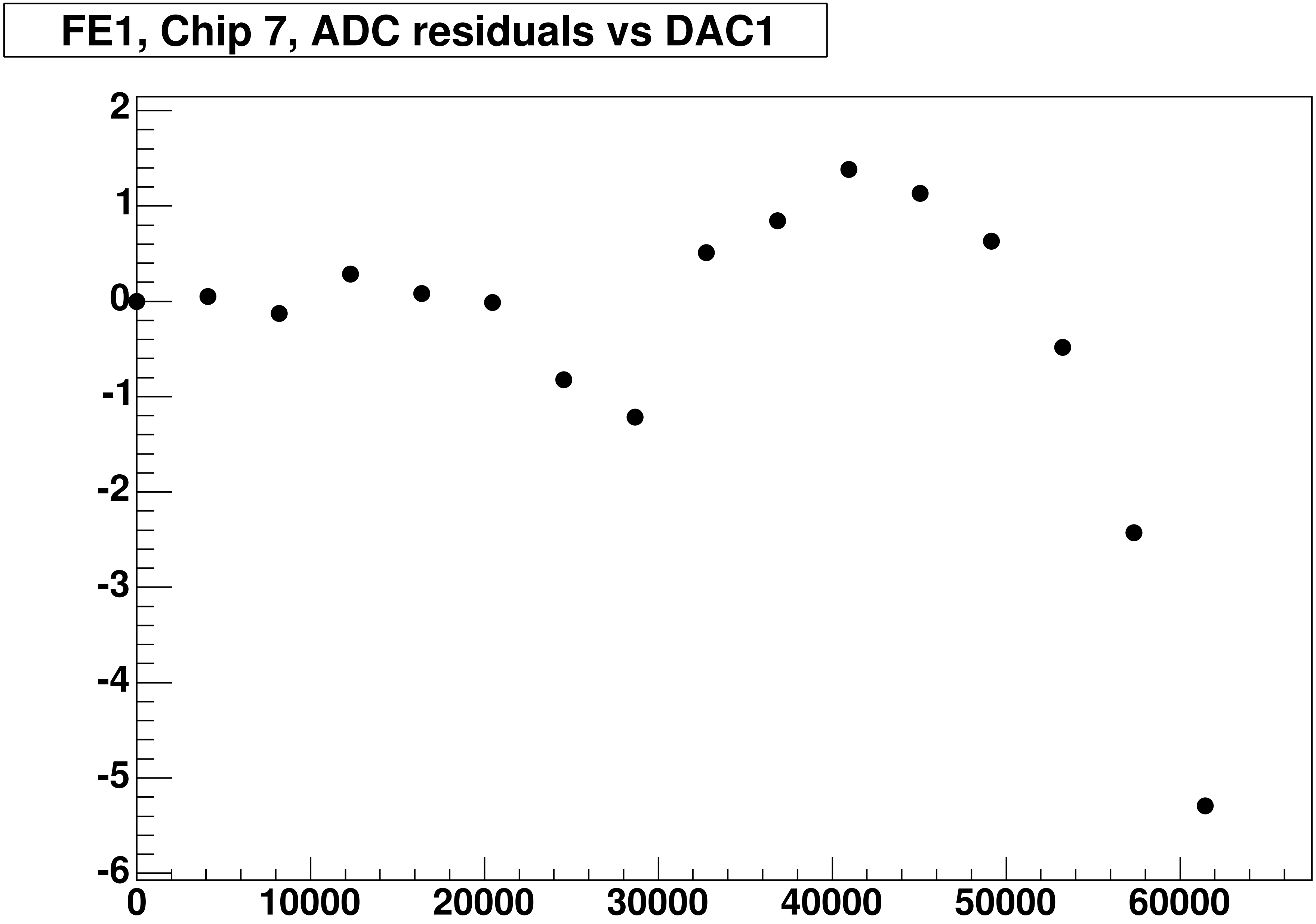
FE1, Chip 7, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

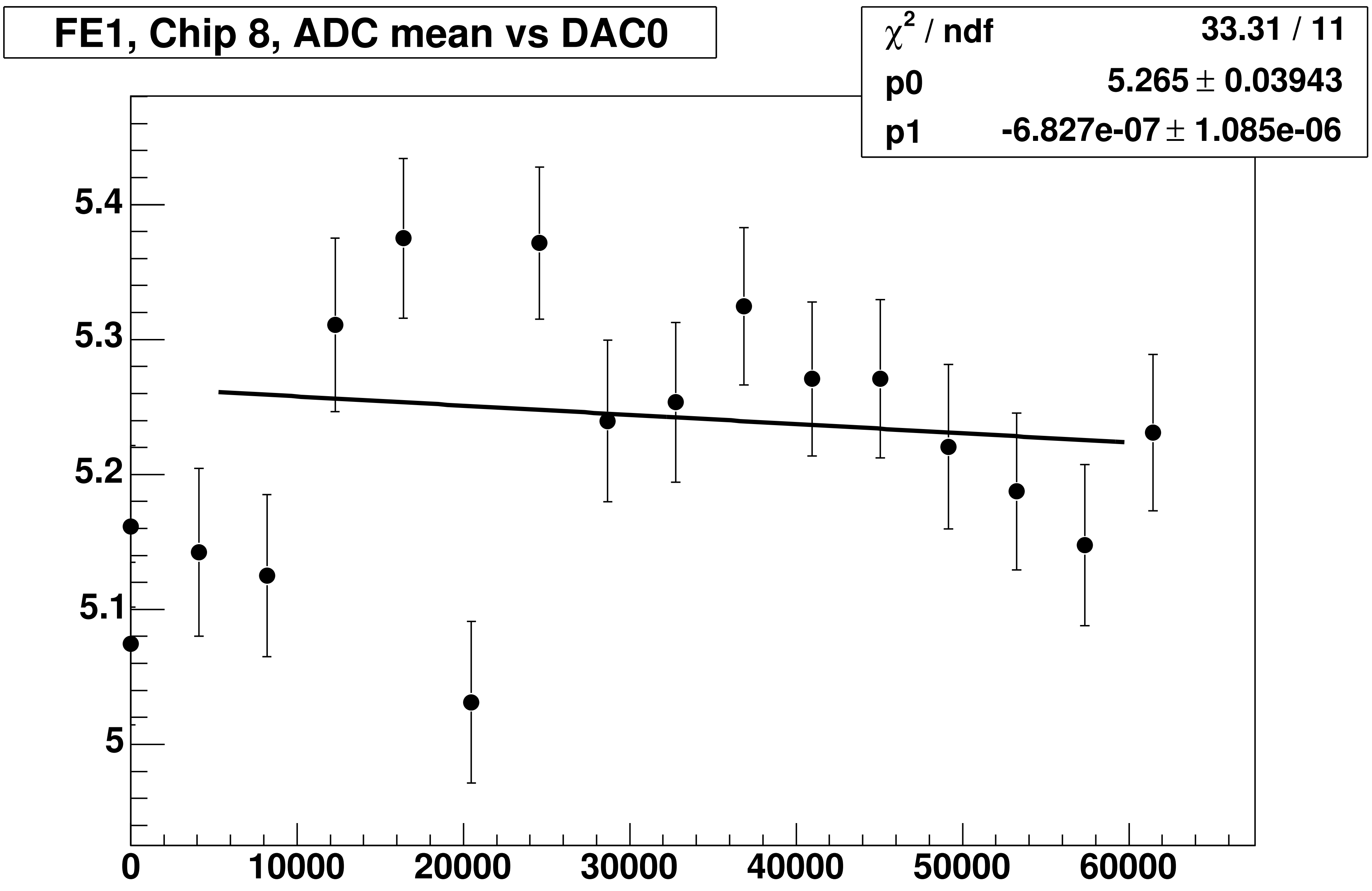

FE1, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

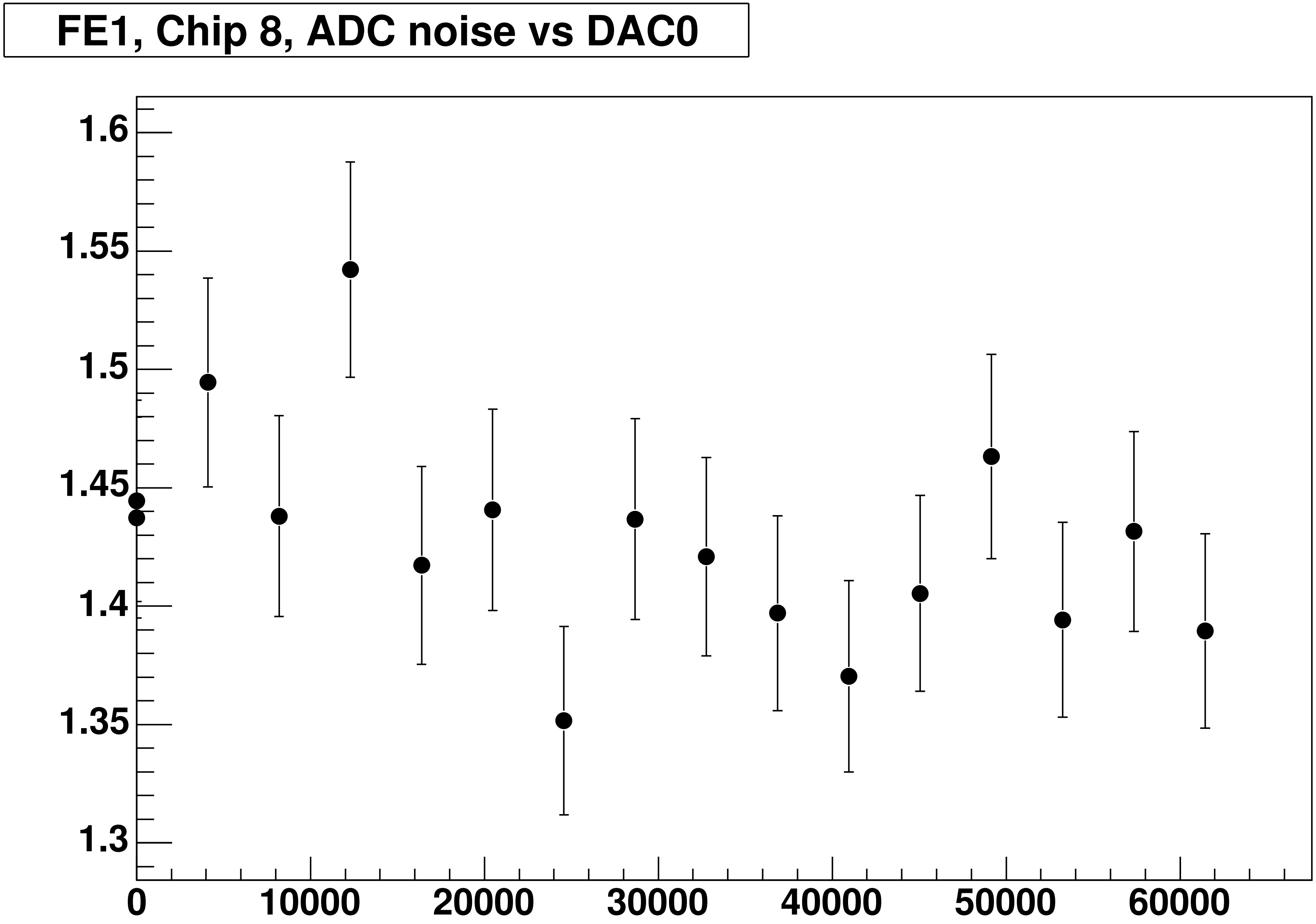


FE1, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1818 / 11
p0 16.74 ± 0.04287
p1 0.4518 ± 1.37e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

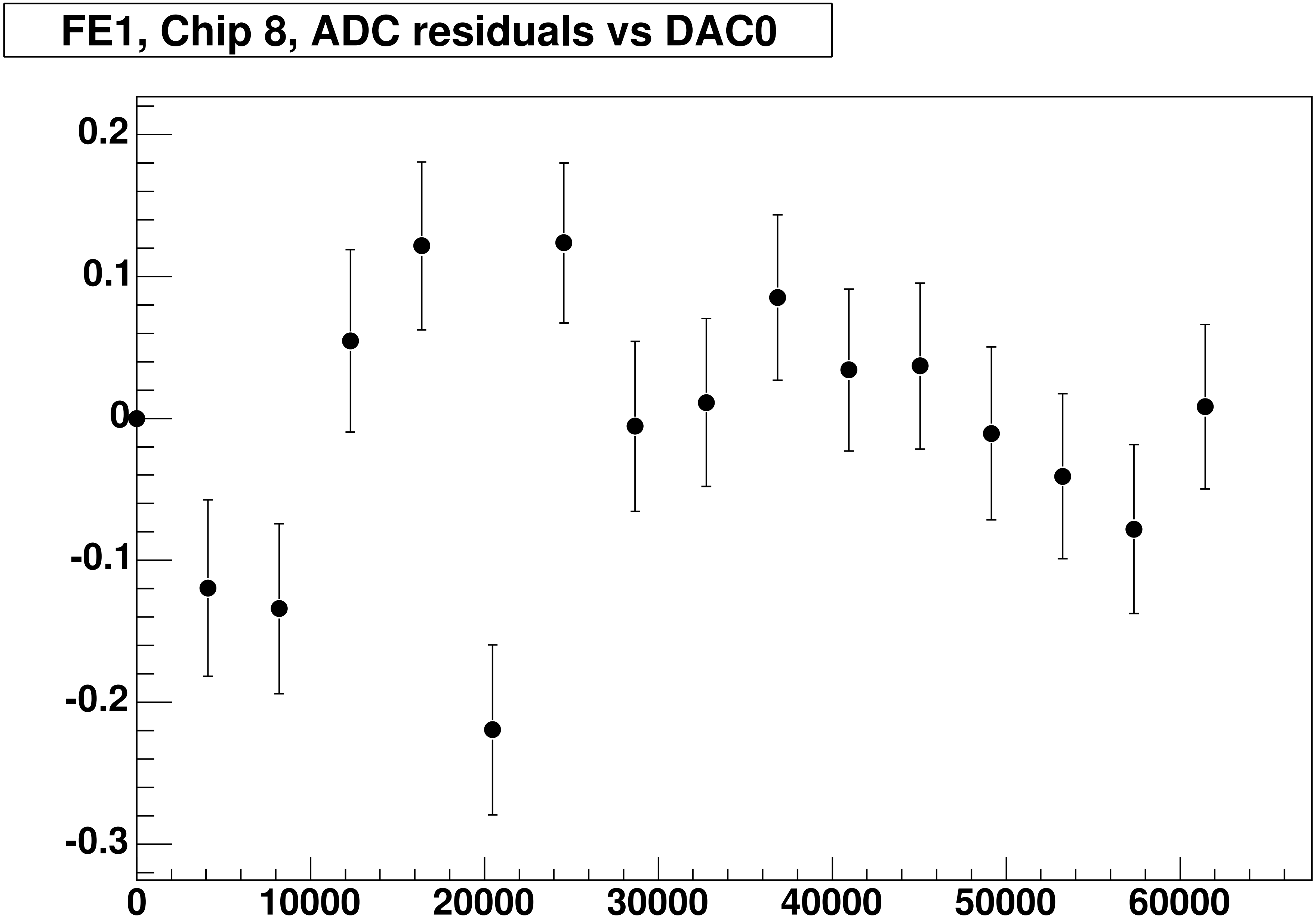

FE1, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

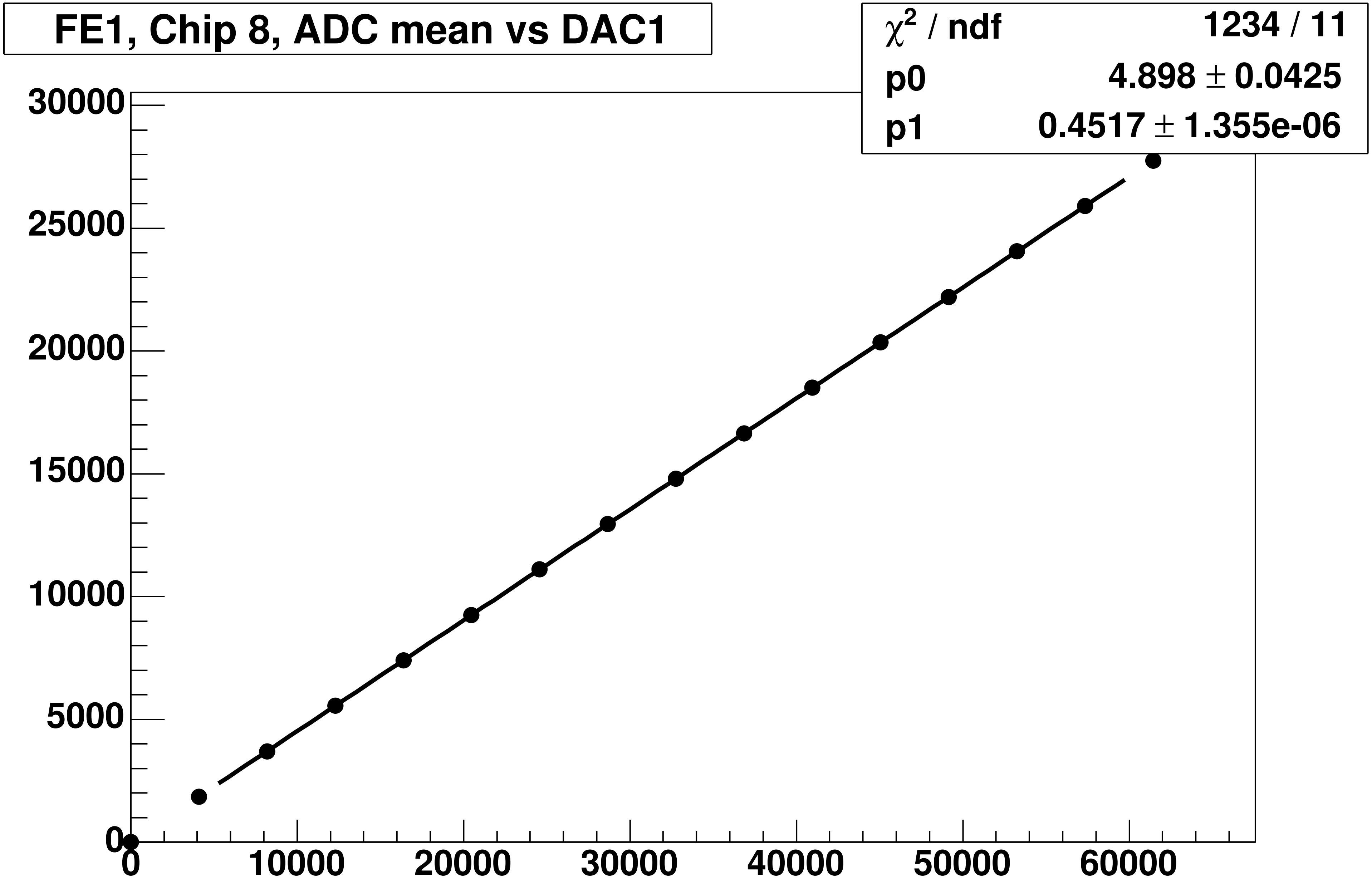

FE1, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

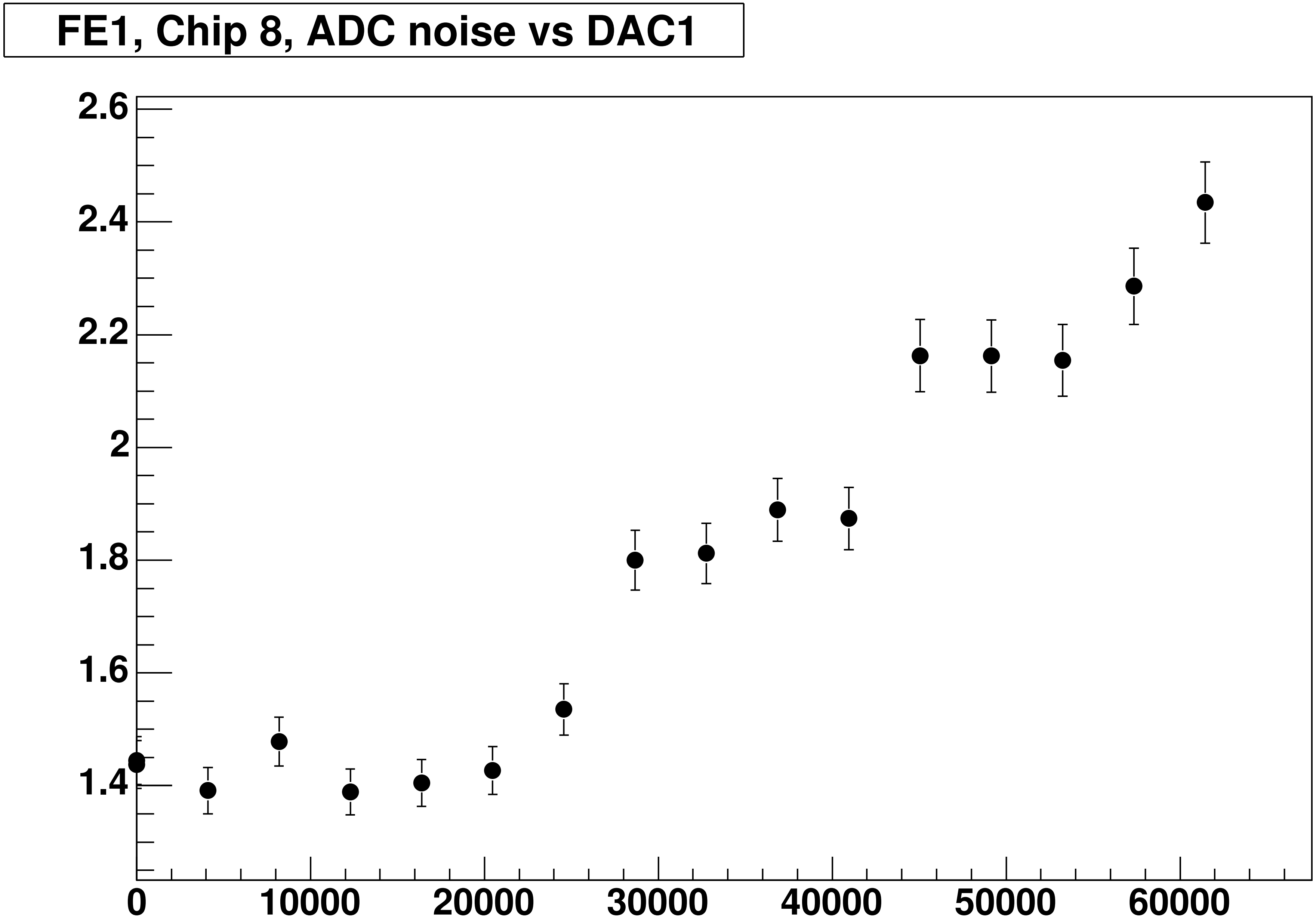

FE1, Chip 8, ADC mean vs DAC0
χ^2 / ndf 33.31 / 11
p0 5.265 ± 0.03943
p1 -6.827e-07 ± 1.085e-06
5.4
5.3
5.2
5.1
5
0
10000
20000
30000
40000
50000
60000

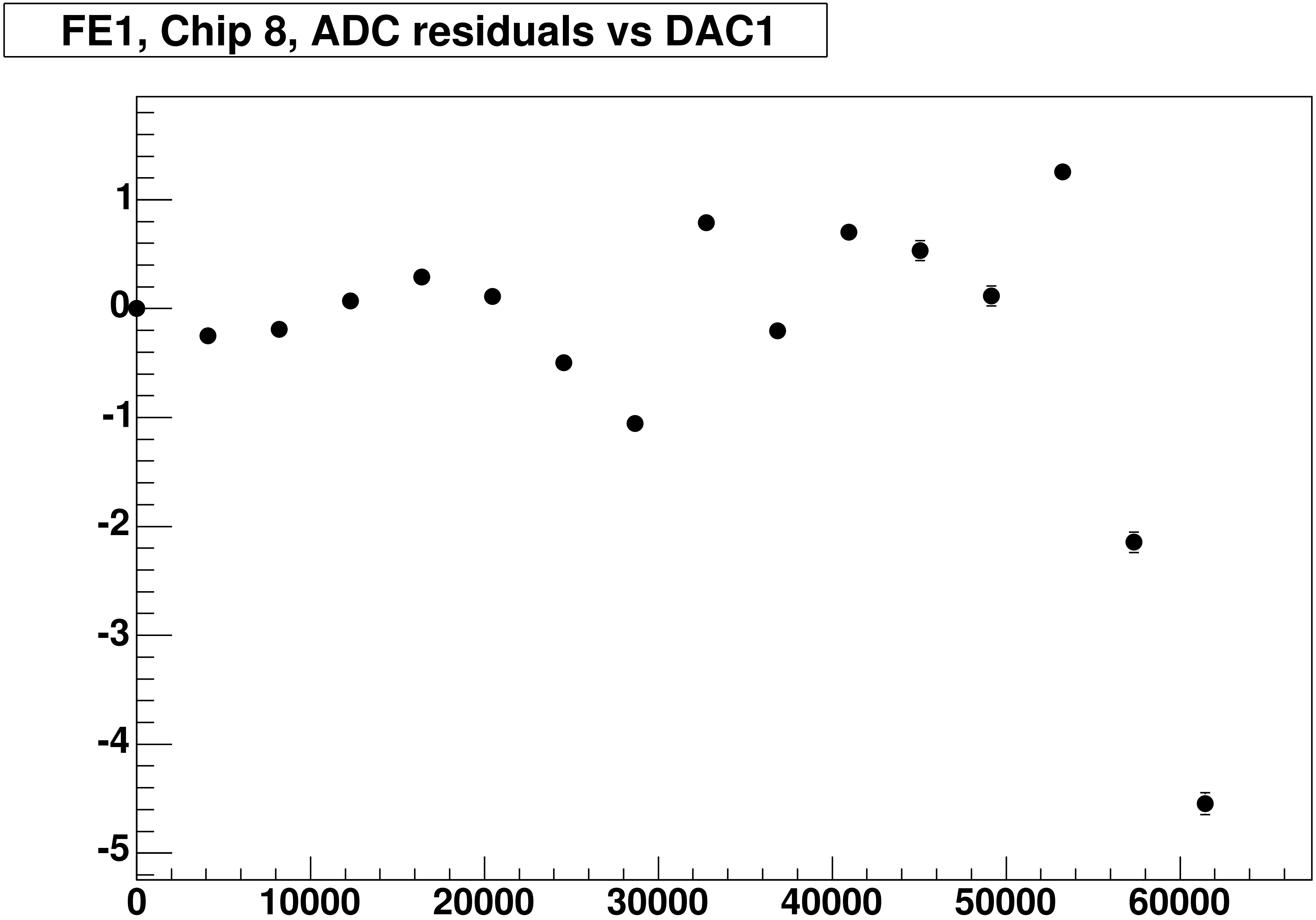


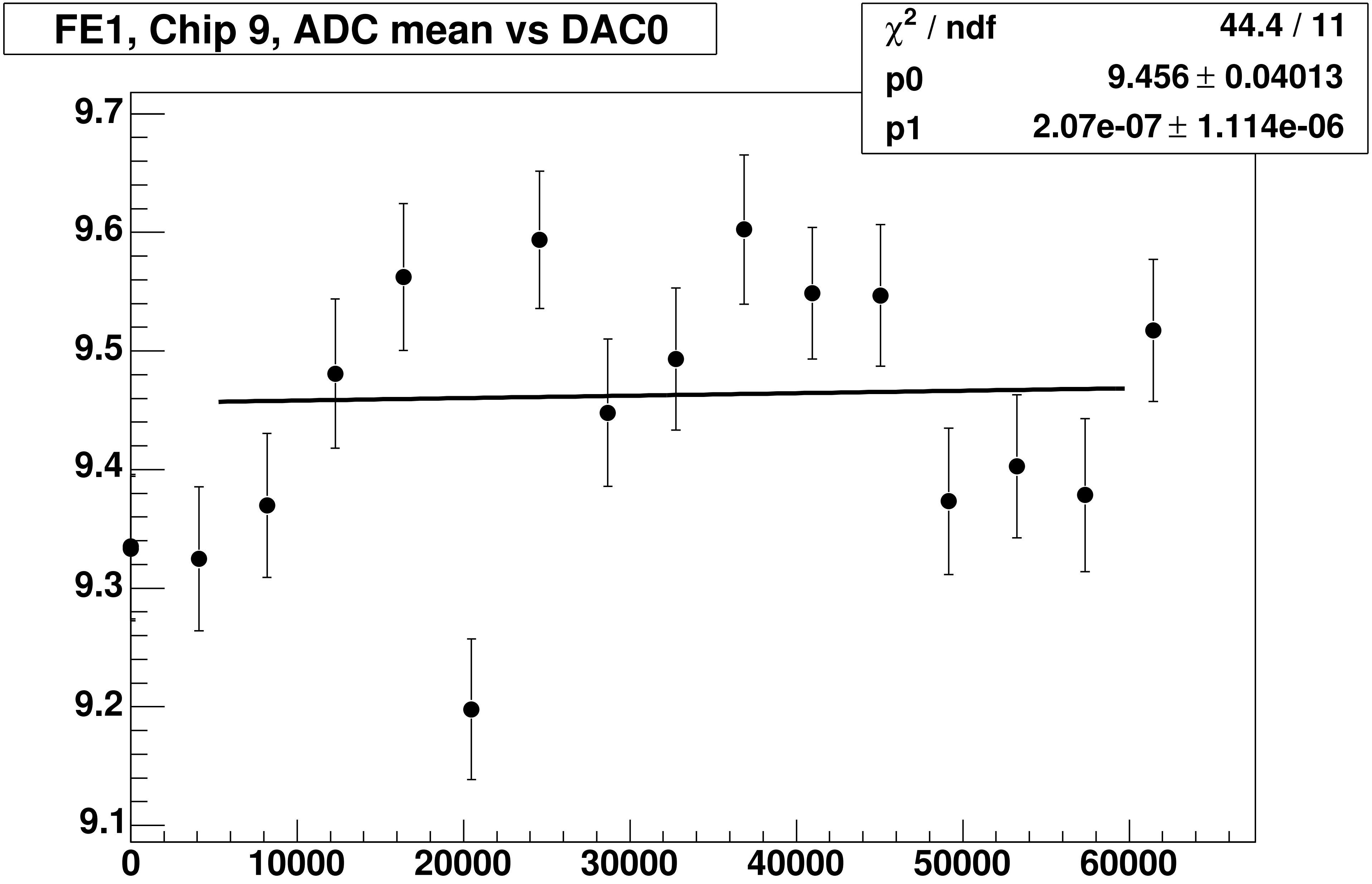
FE1, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


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

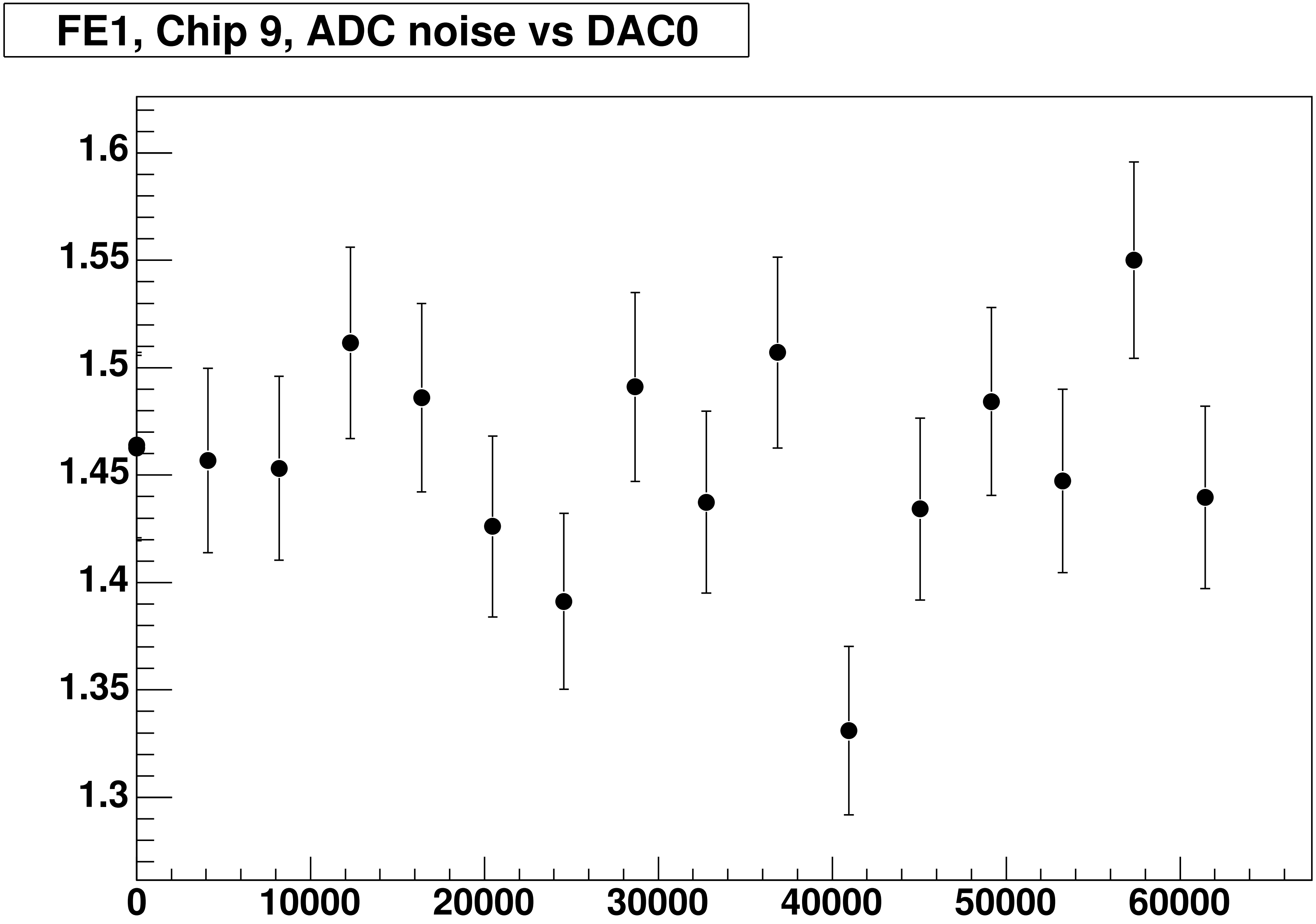

FE1, Chip 8, ADC mean vs DAC1
χ2 / ndf 1234 / 11
p0 4.898 ± 0.0425
p1 0.4517 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

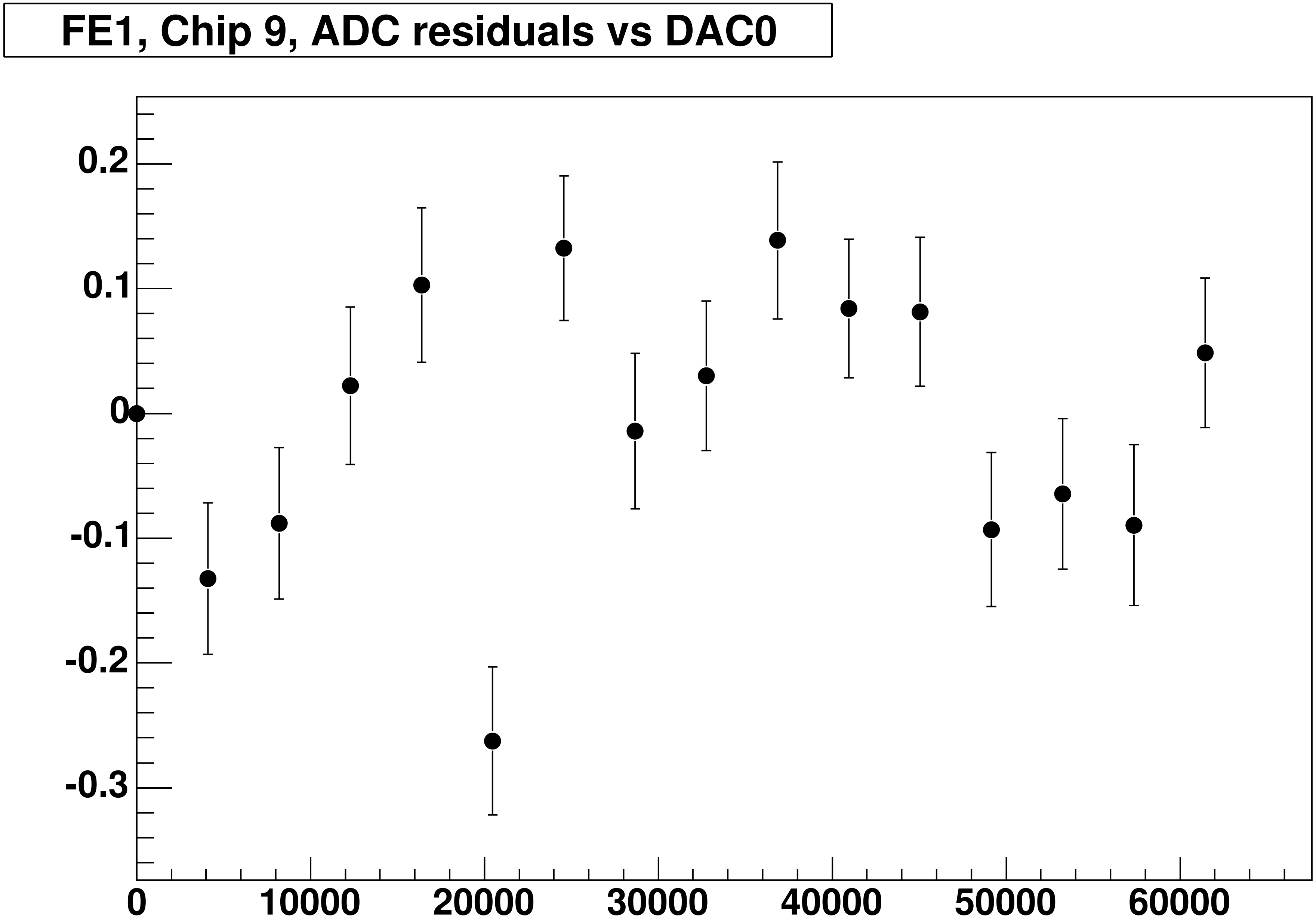

FE1, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

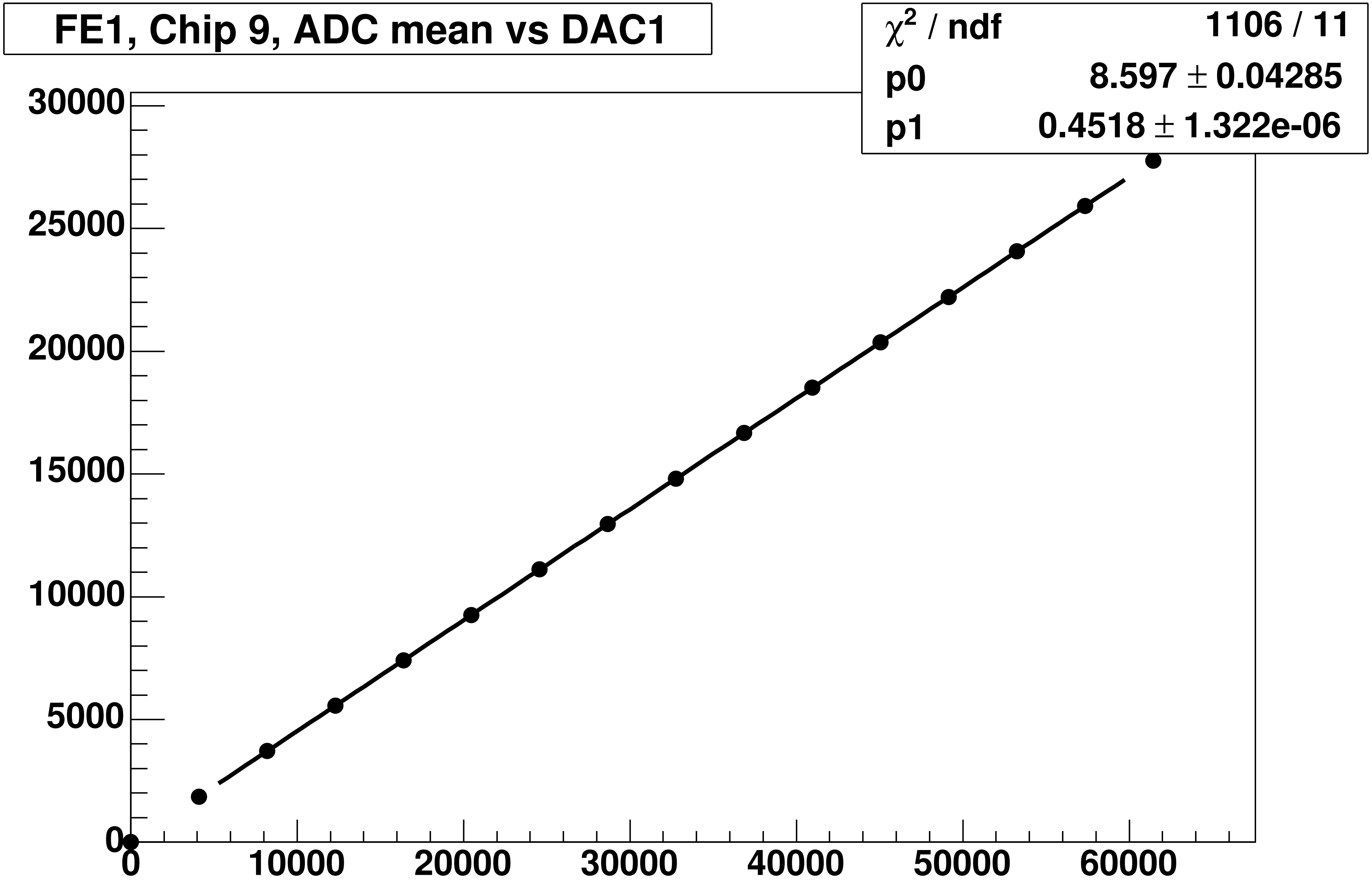

FE1, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

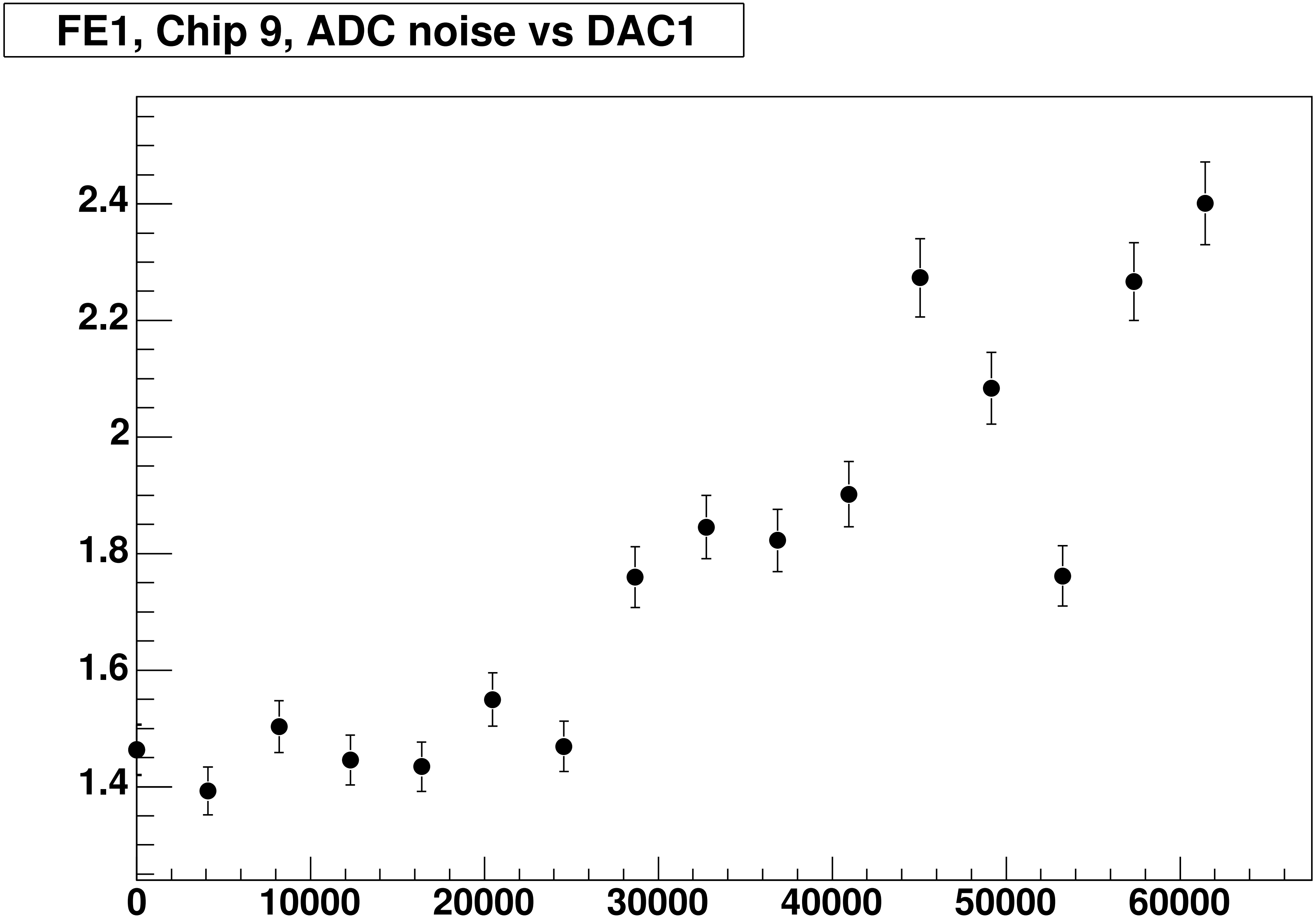


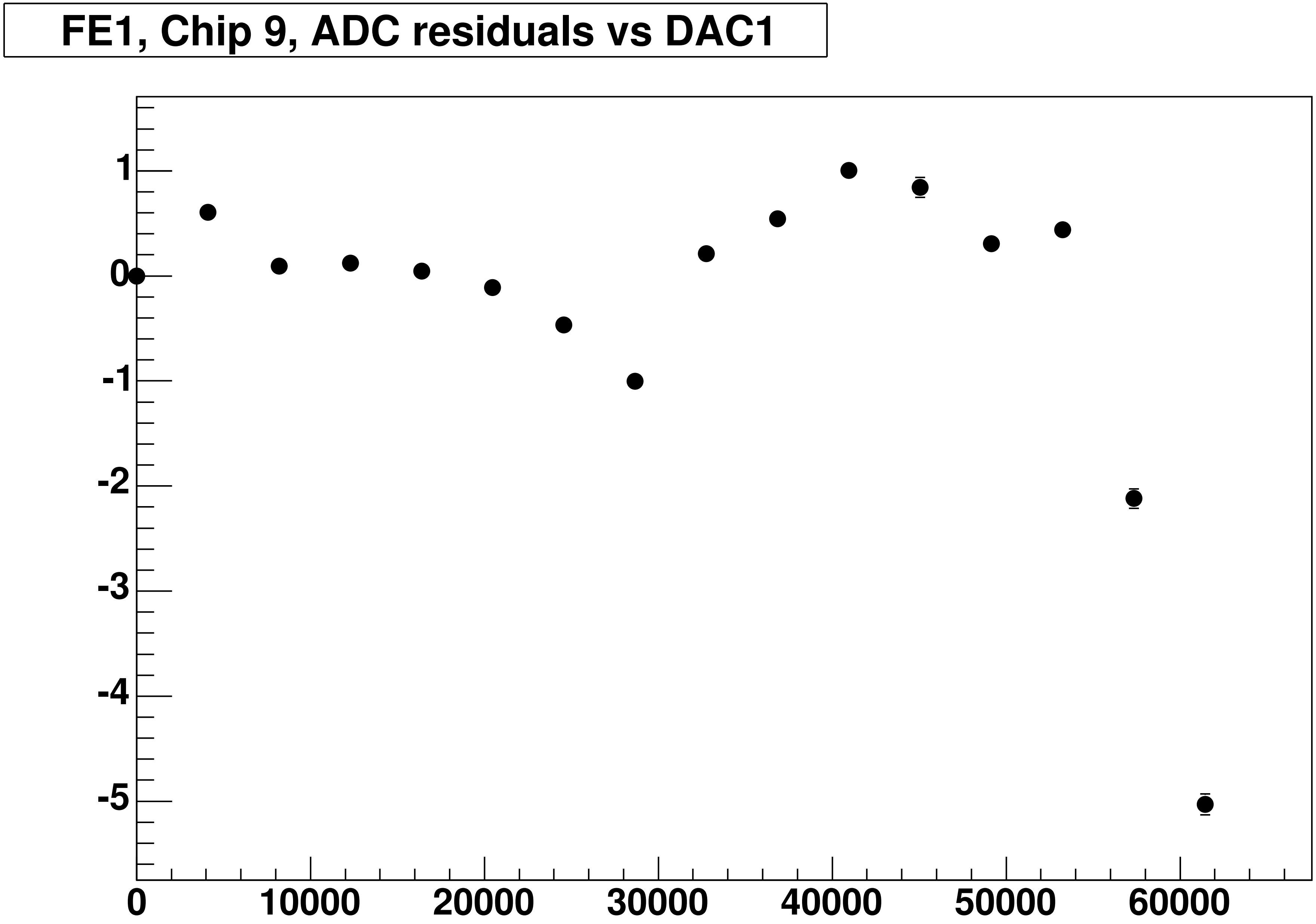
FE1, Chip 9, ADC mean vs DAC0
χ^2 / ndf 44.4 / 11
p0 9.456 ± 0.04013
p1 2.07e-07 ± 1.114e-06
9.7
9.6
9.5
9.4
9.3
9.2
9.1
0
10000
20000
30000
40000
50000
60000

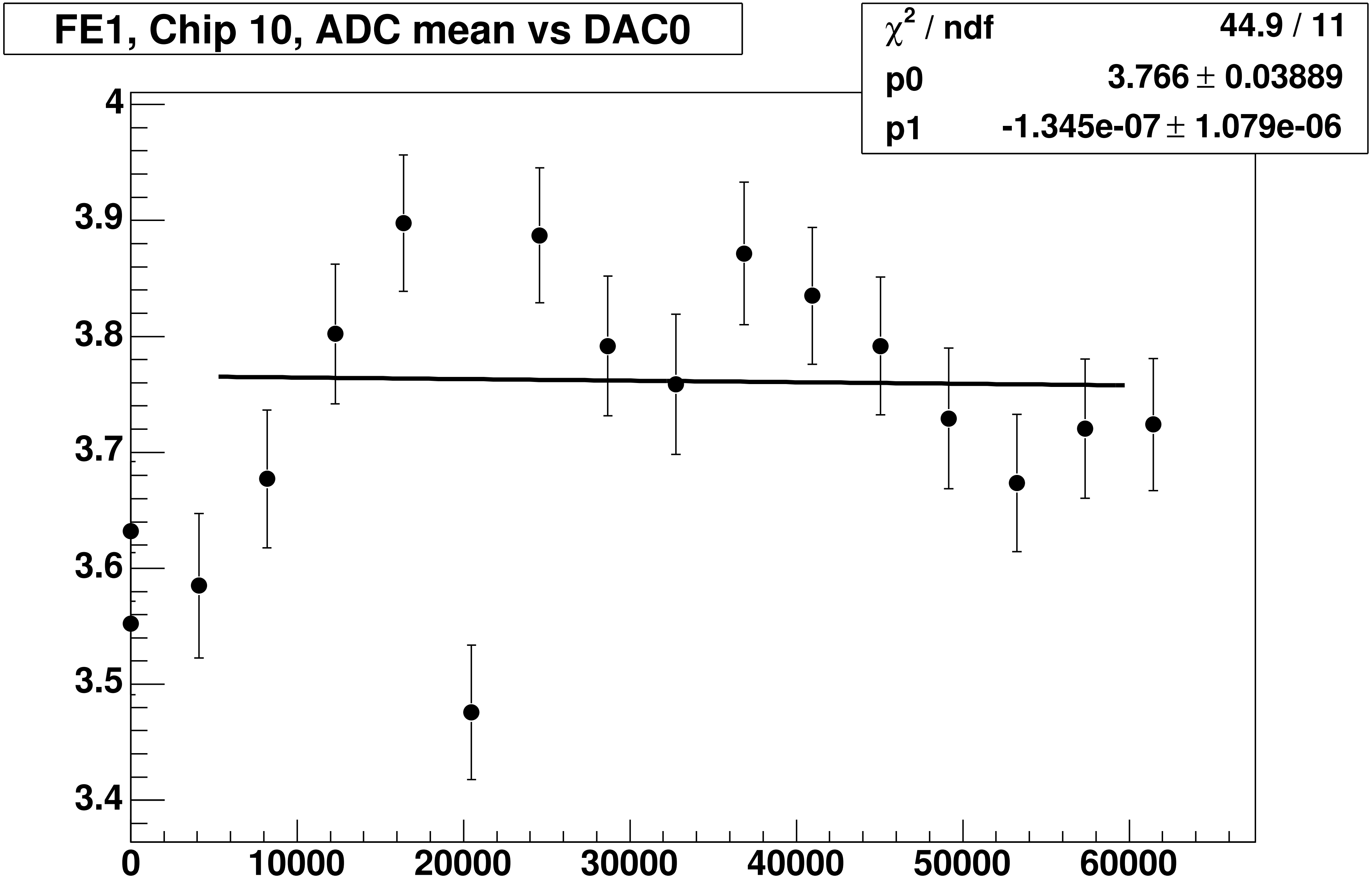

FE1, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


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

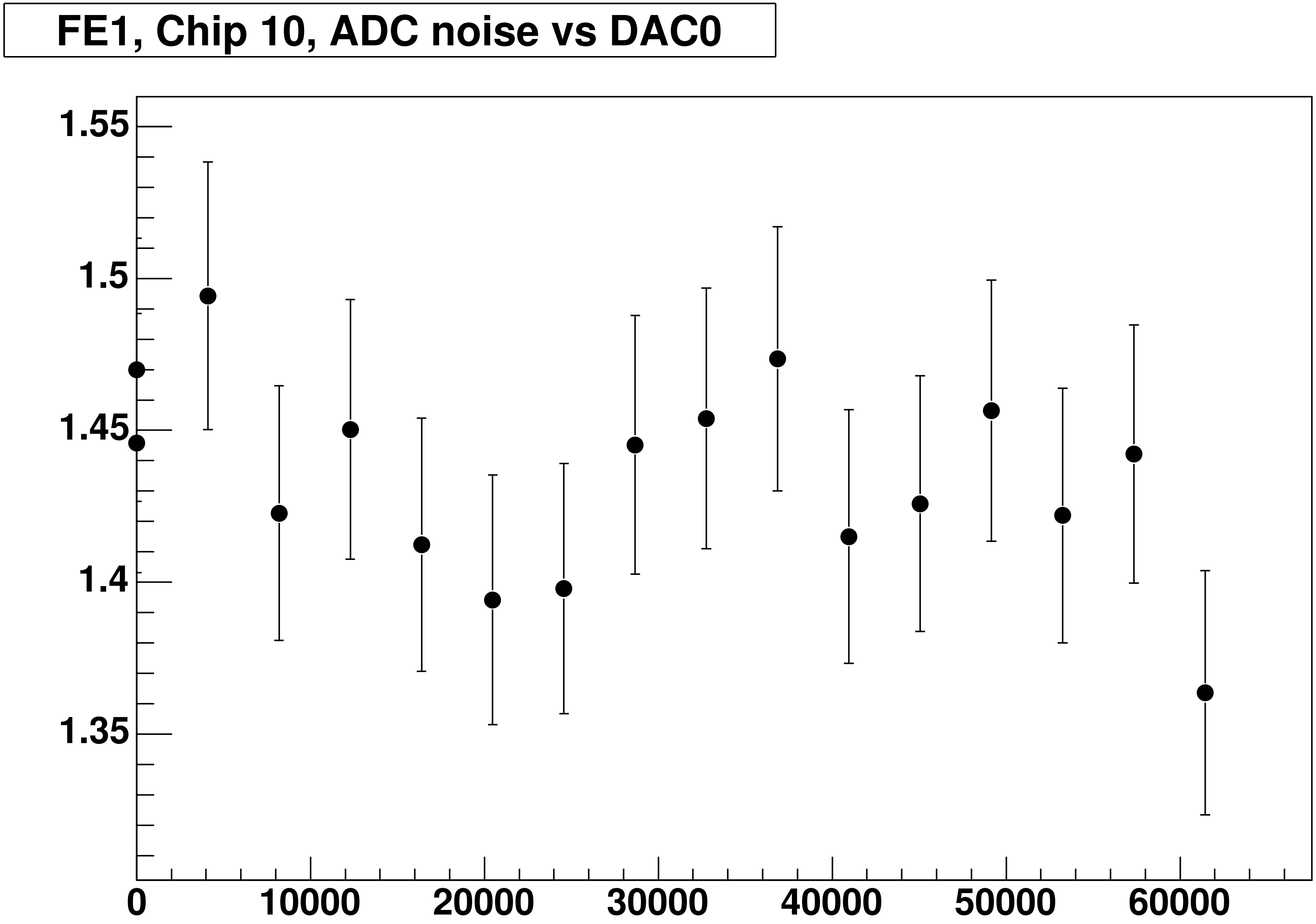

FE1, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1106 / 11
p0 8.597 ± 0.04285
p1 0.4518 ± 1.322e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000


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

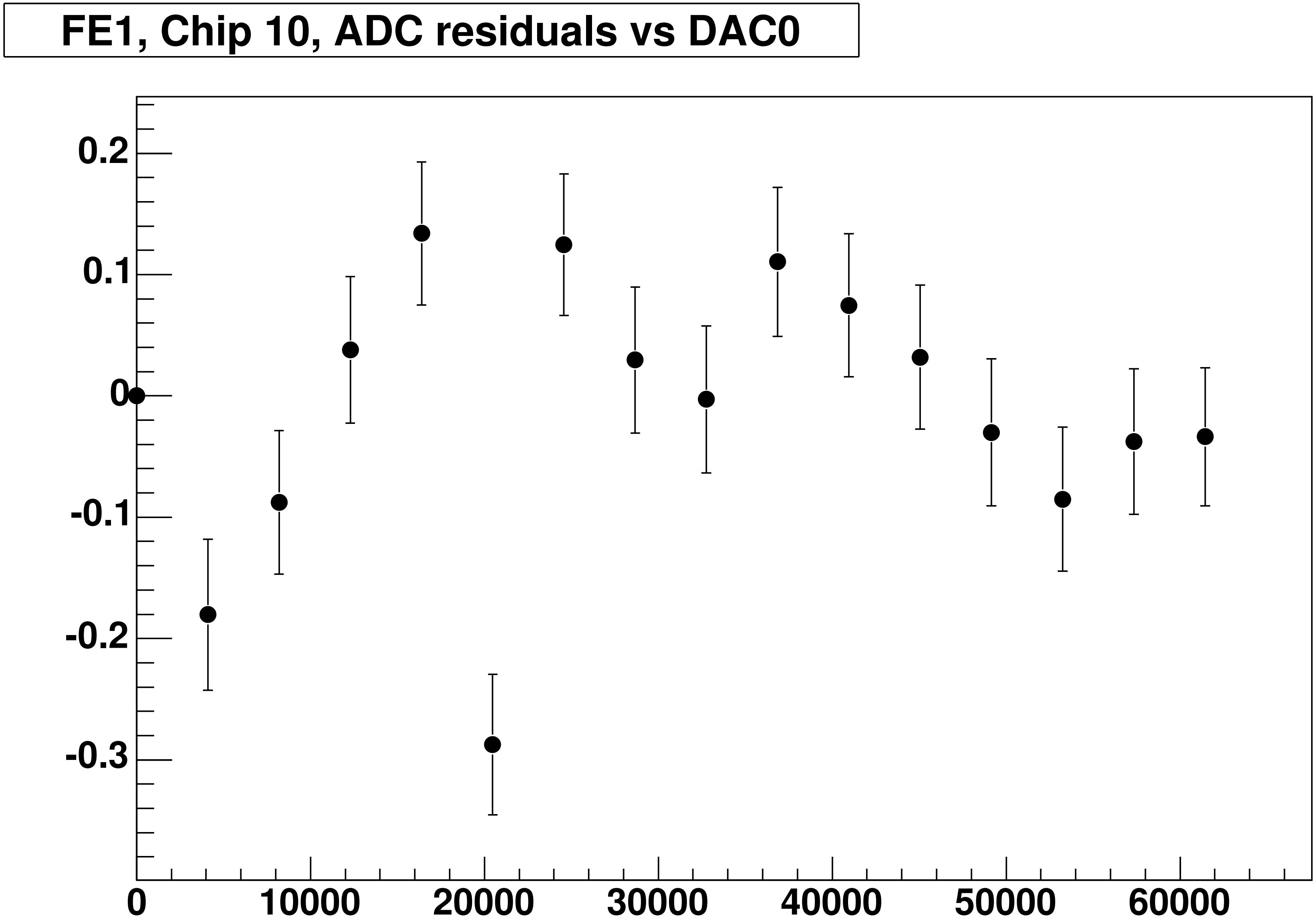

FE1, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

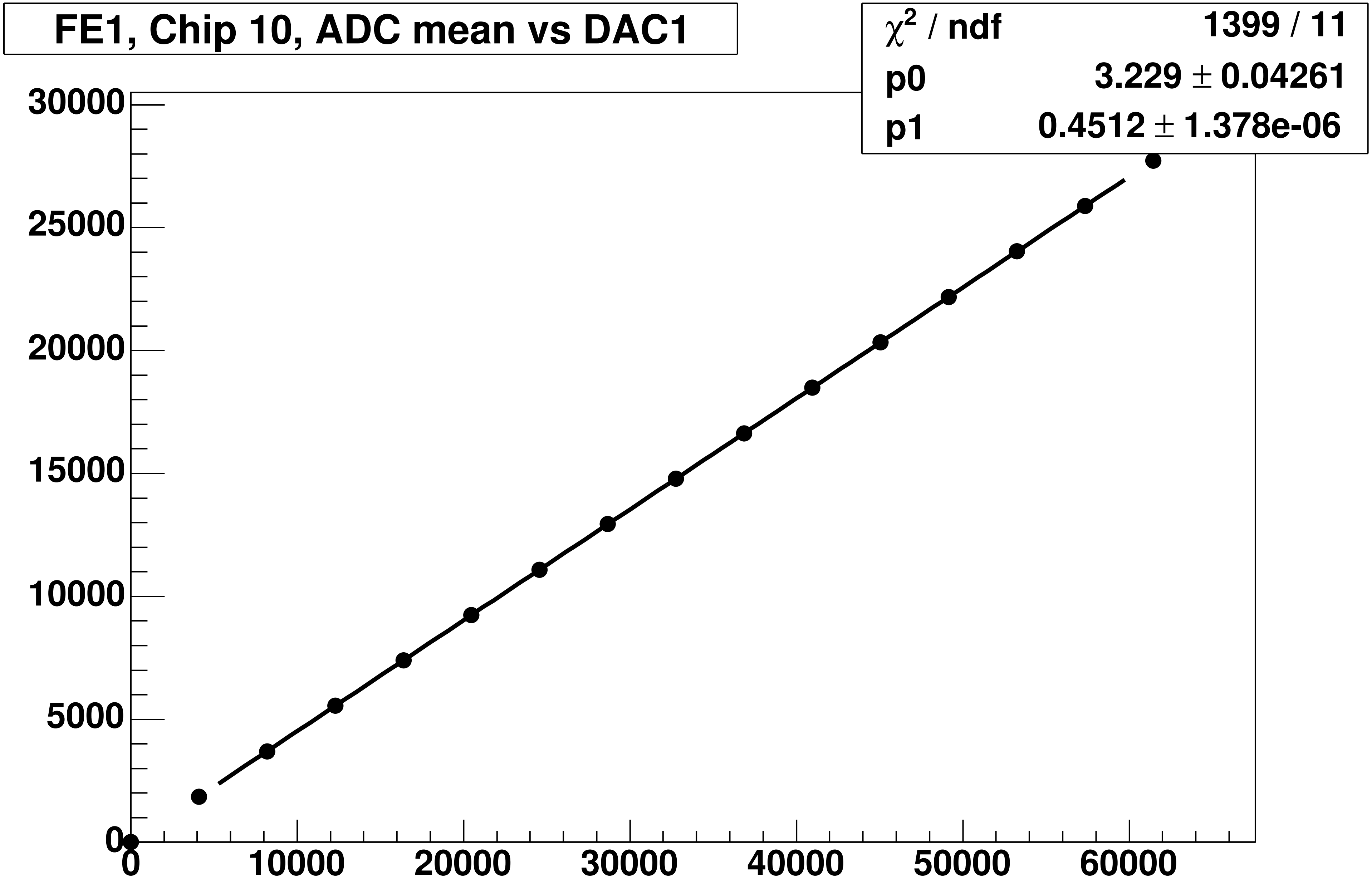


FE1, Chip 10, ADC mean vs DAC0
χ^2 / ndf 44.9 / 11
p0 3.766 ± 0.03889
p1 -1.345e-07 ± 1.079e-06
4
3.9
3.8
3.7
3.6
3.5
3.4
0
10000
20000
30000
40000
50000
60000

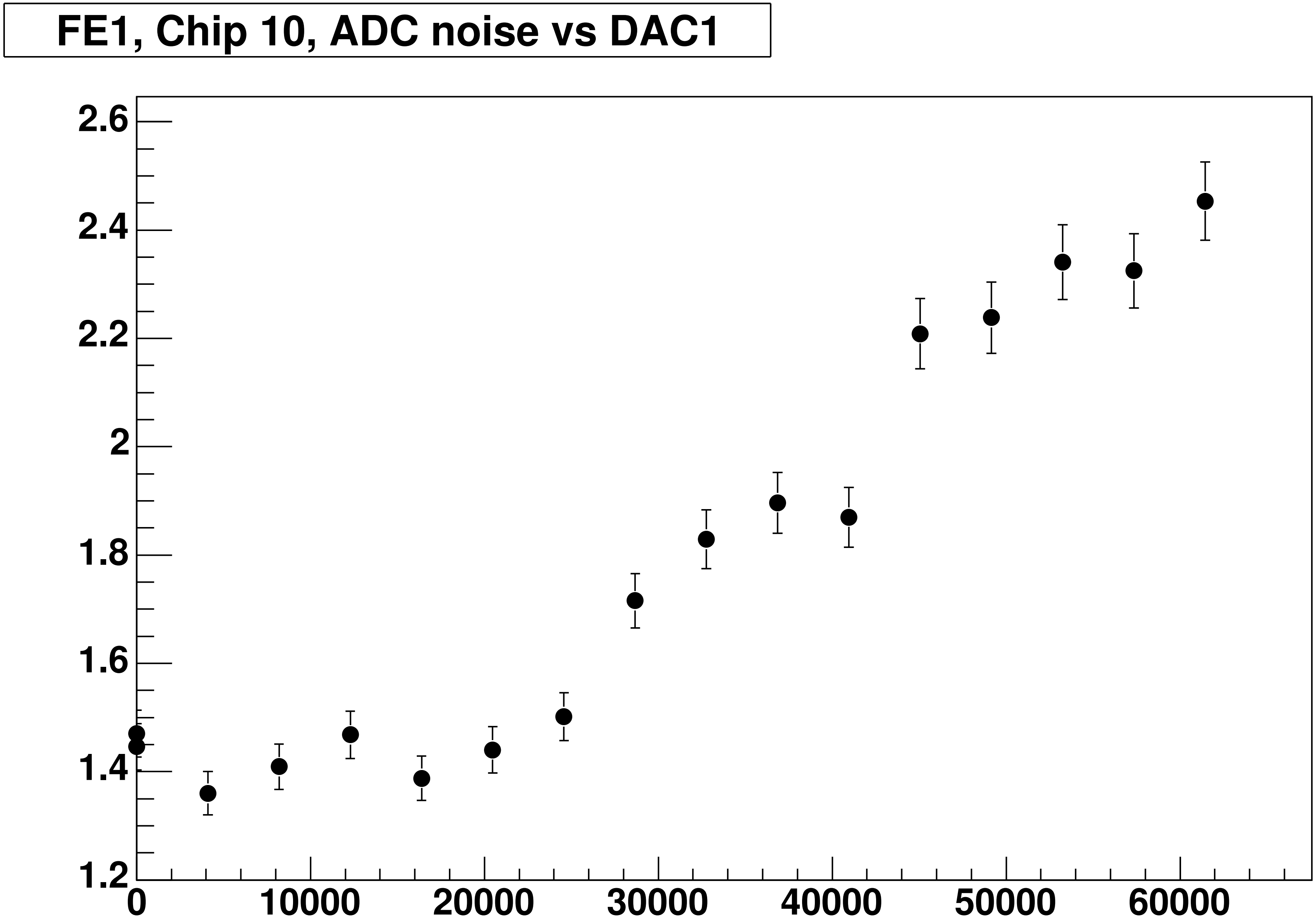


FE1, Chip 10, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

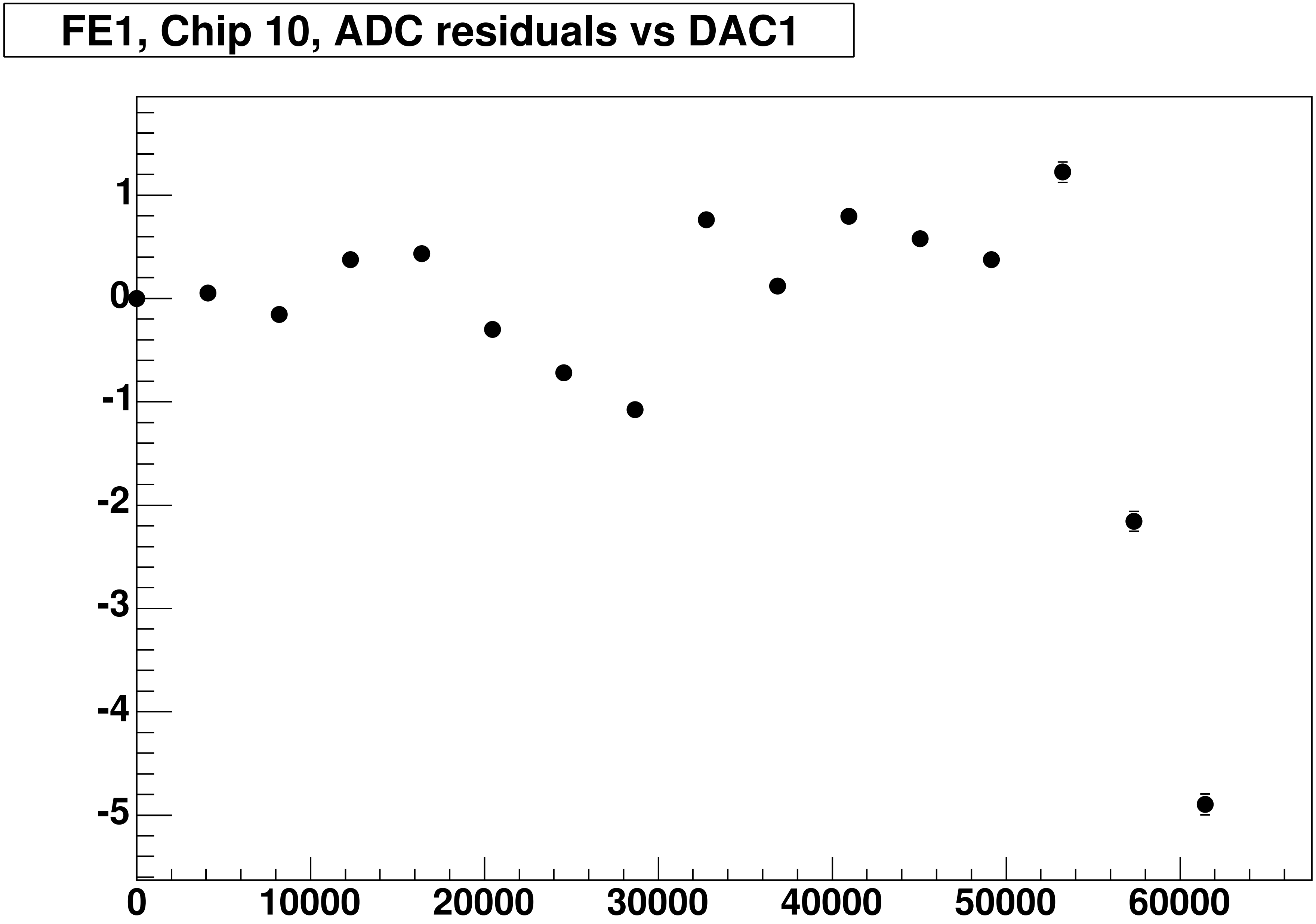

FE1, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



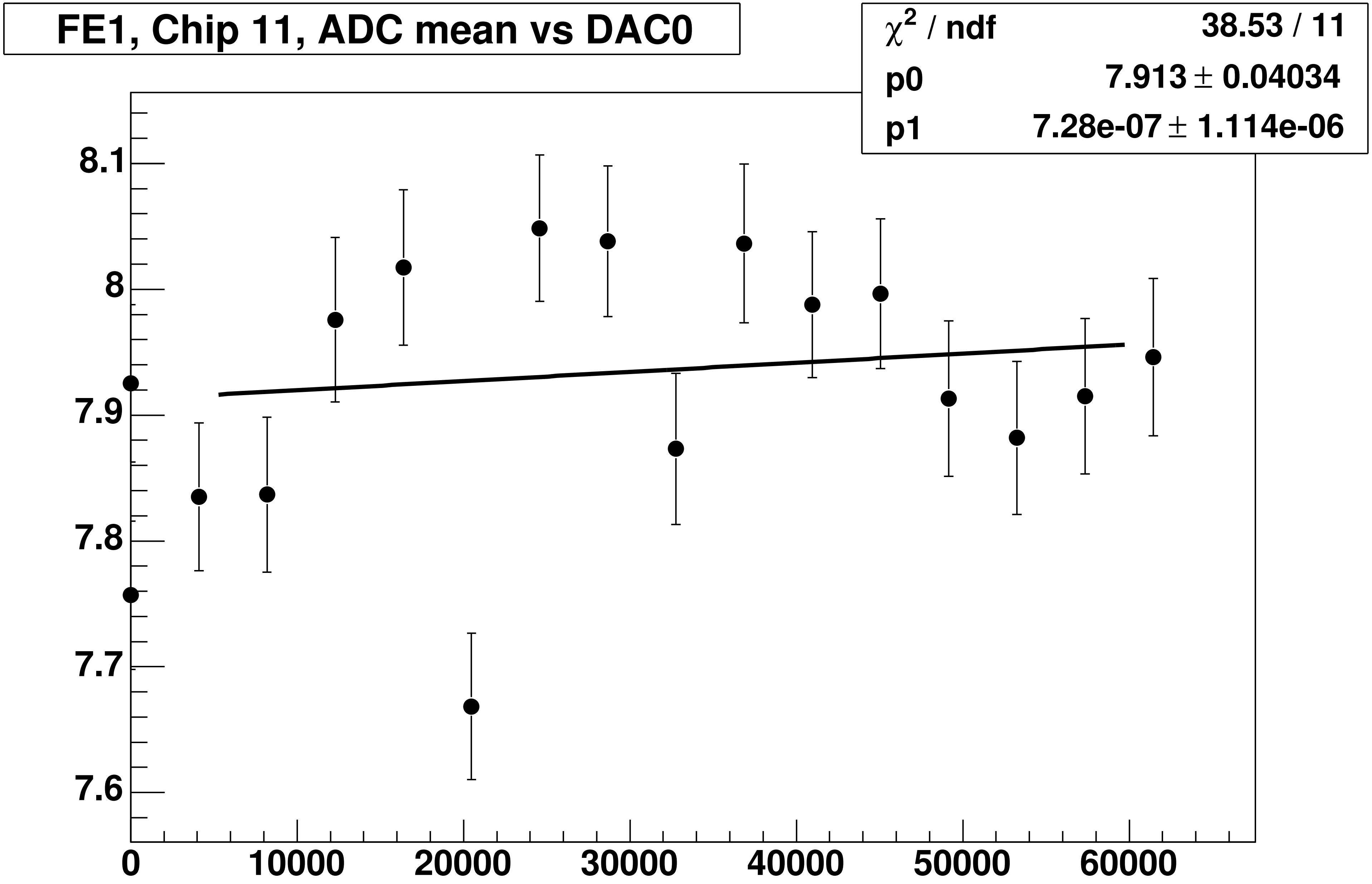
FE1, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1399 / 11
p0 3.229 ± 0.04261
p1 0.4512 ± 1.378e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



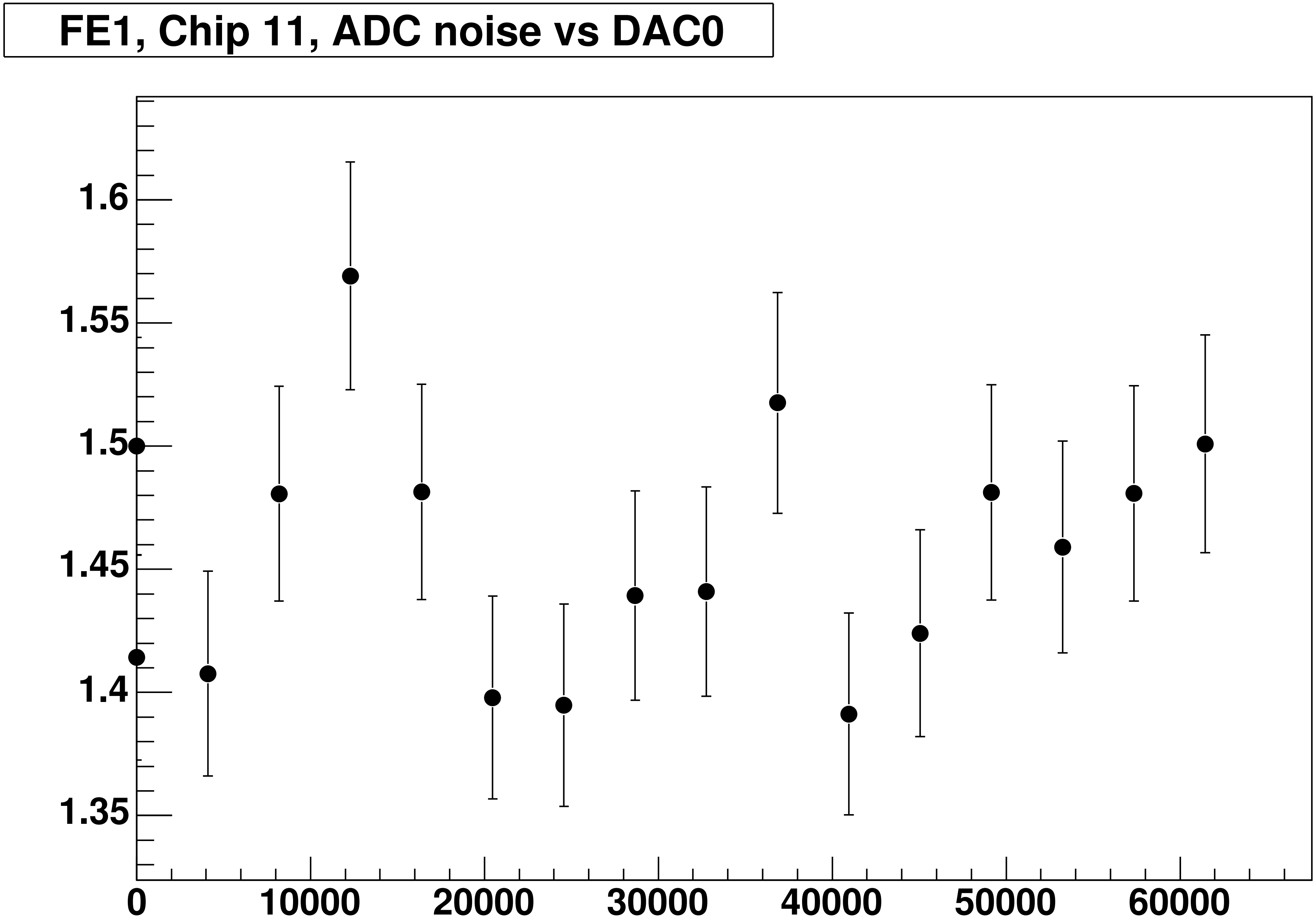
FE1, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

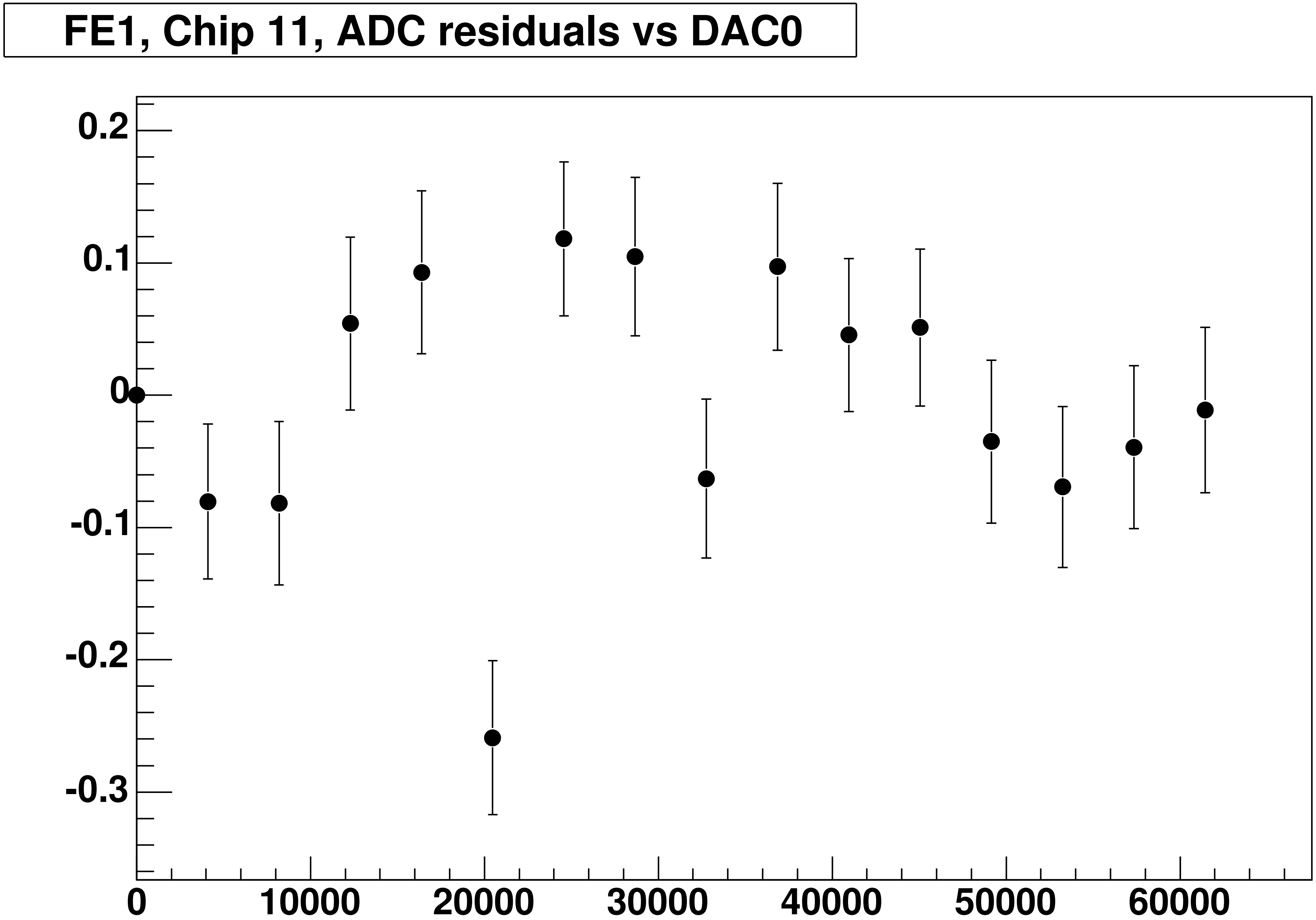


FE1, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

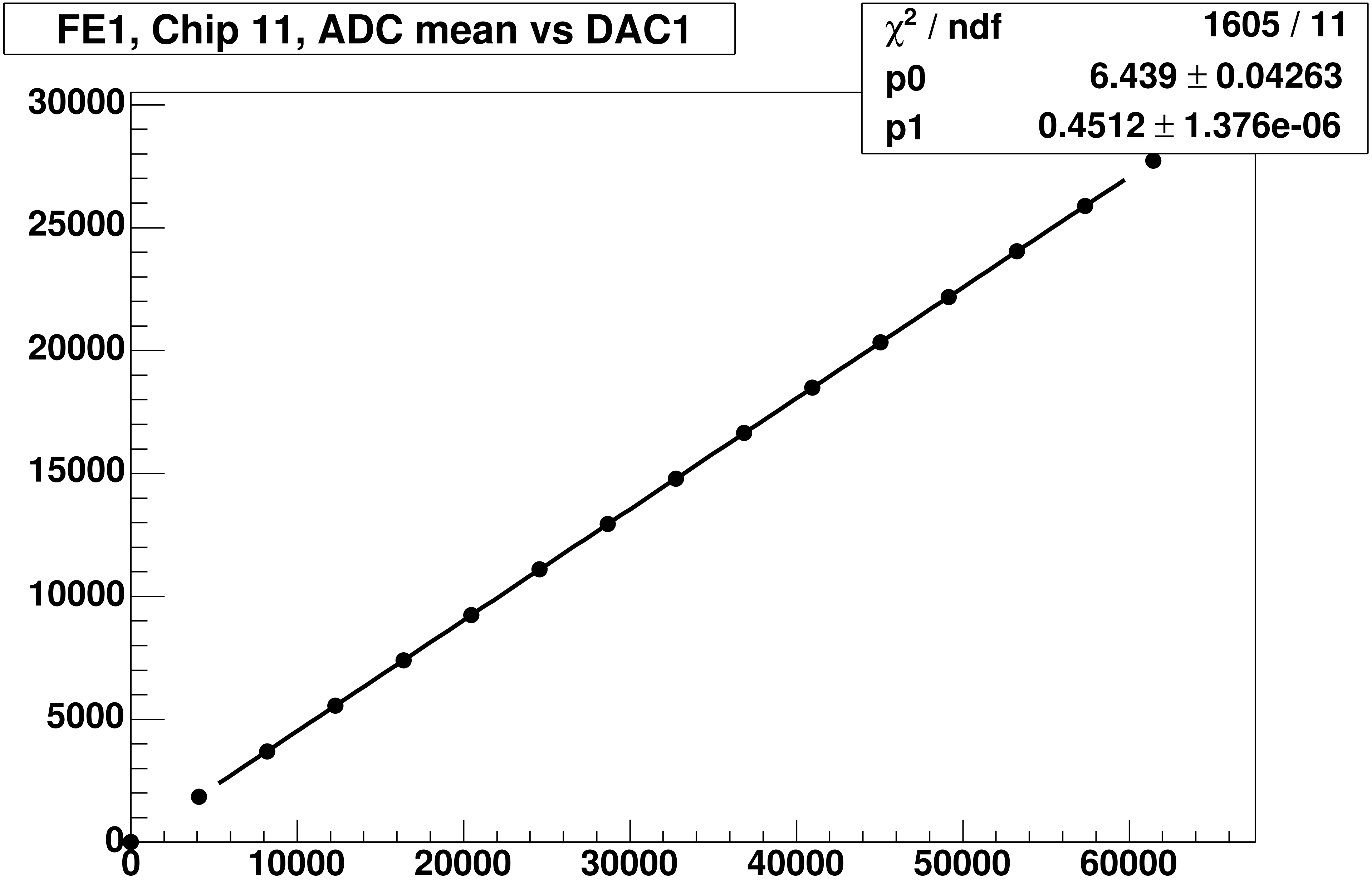


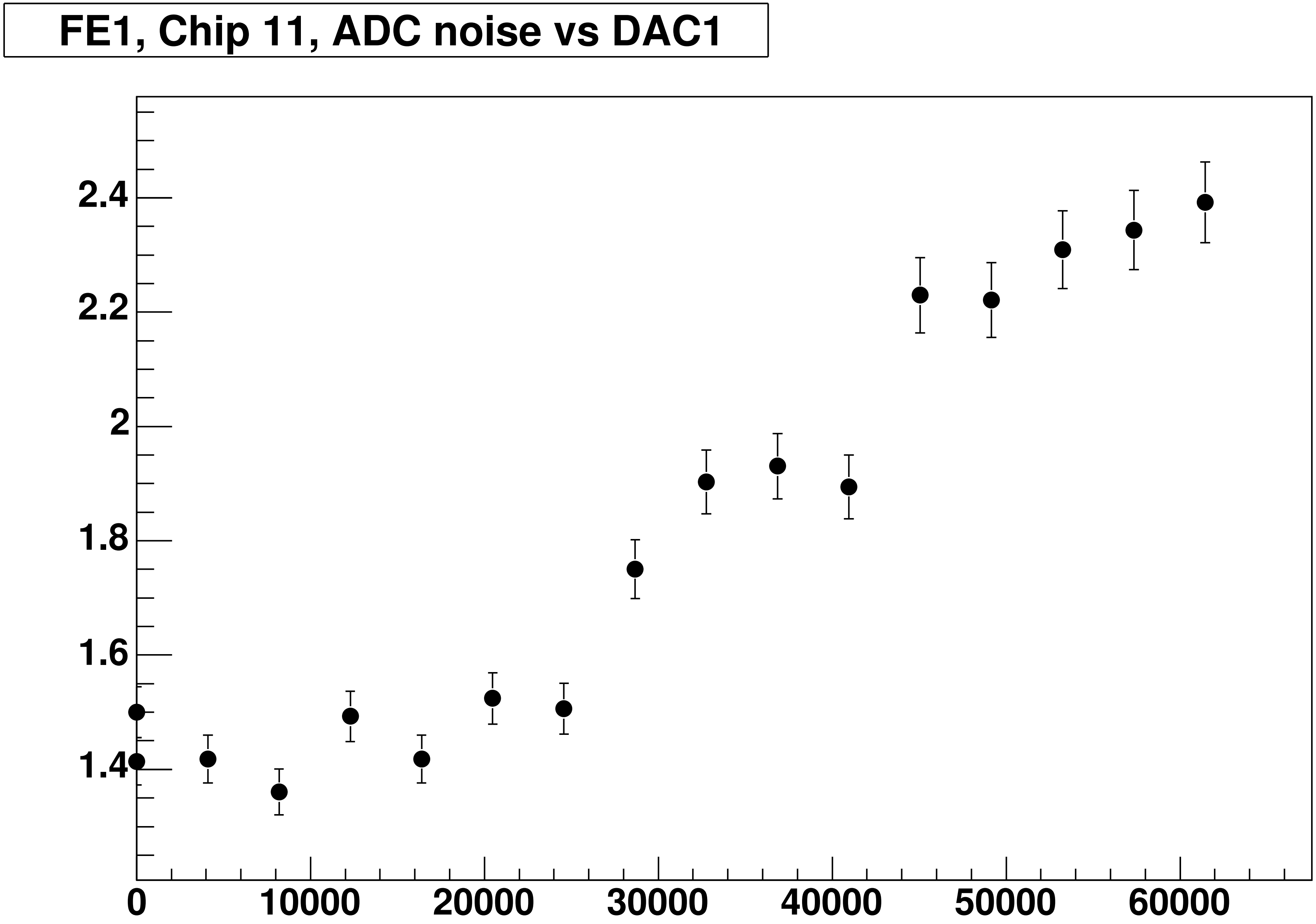
FE1, Chip 11, ADC mean vs DAC0
χ^2 / ndf 38.53 / 11
p0 7.913 ± 0.04034
p1 7.28e-07 ± 1.114e-06
8.1
8
7.9
7.8
7.7
7.6
0
10000
20000
30000
40000
50000
60000


FE1, 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

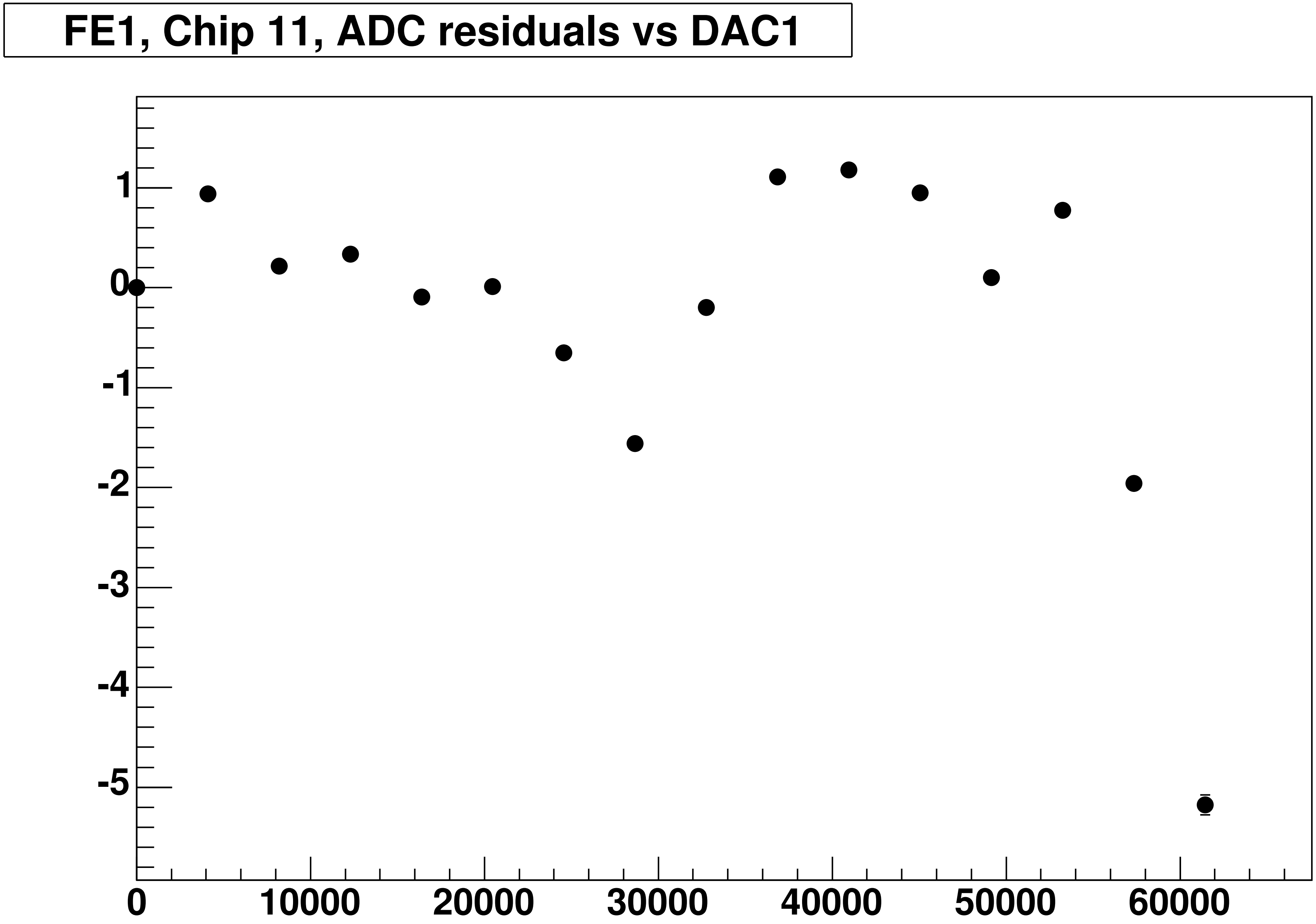


FE1, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

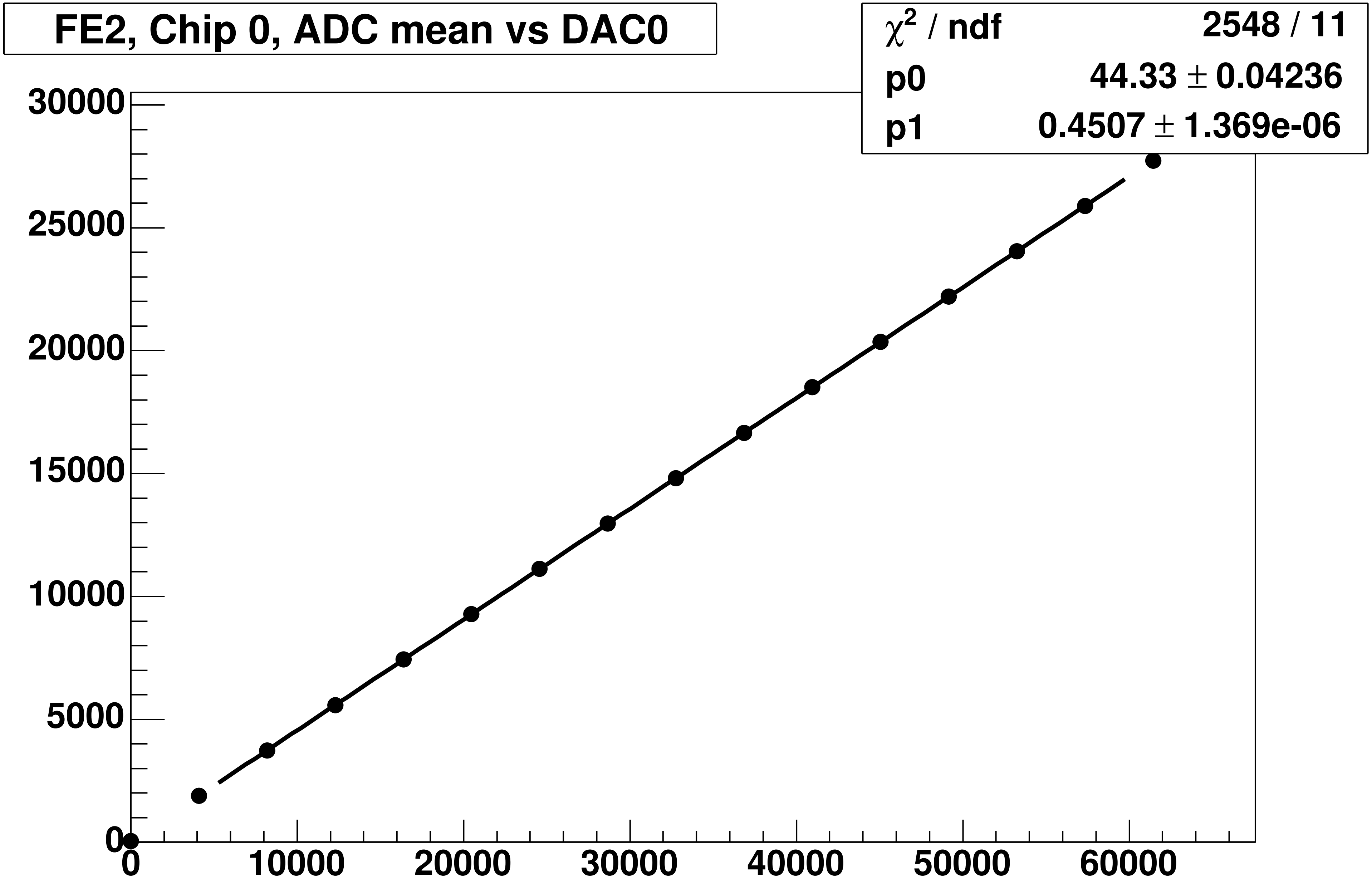

FE1, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1605 / 11
p0 6.439 ± 0.04263
p1 0.4512 ± 1.376e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000



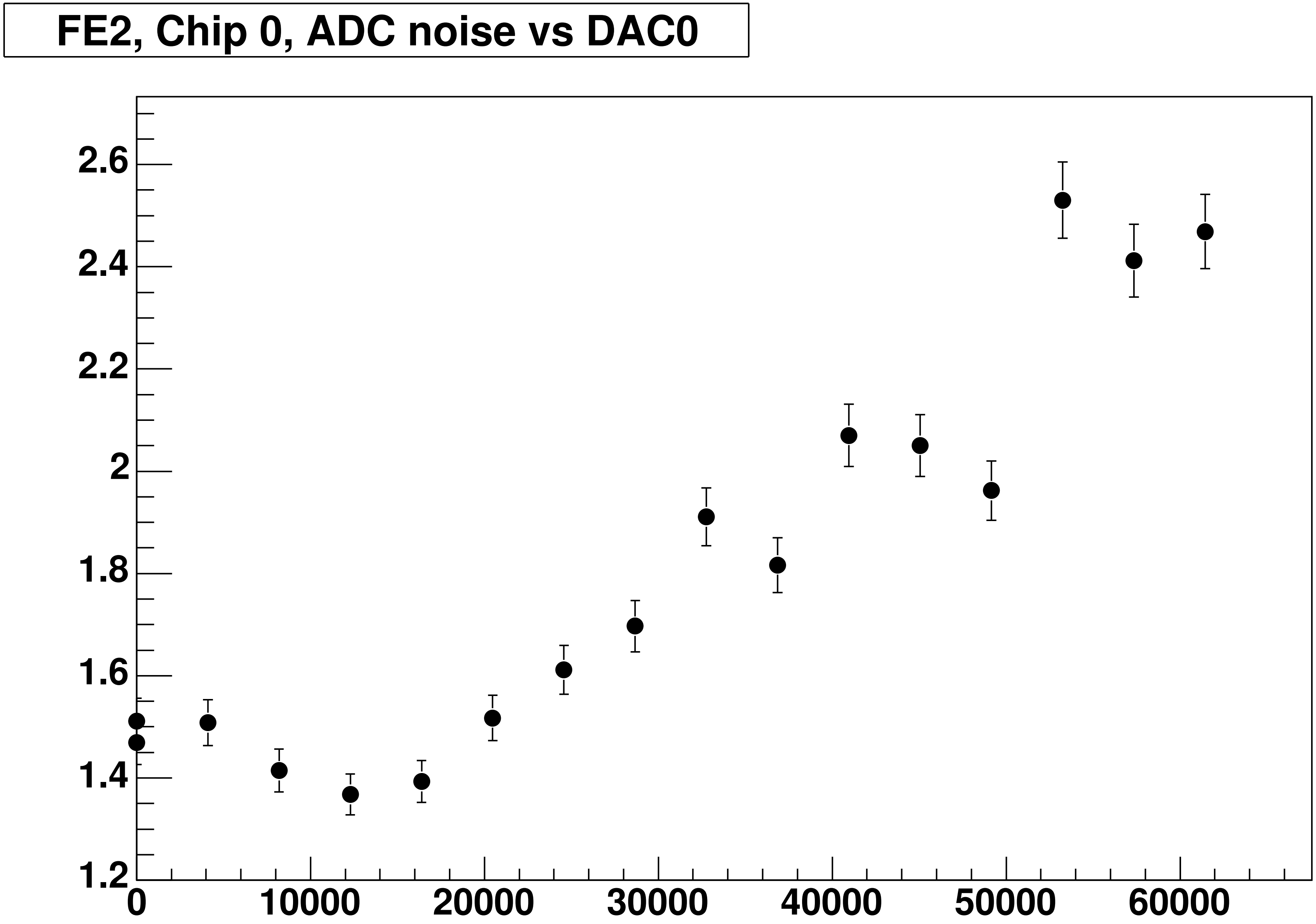
FE1, Chip 11, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

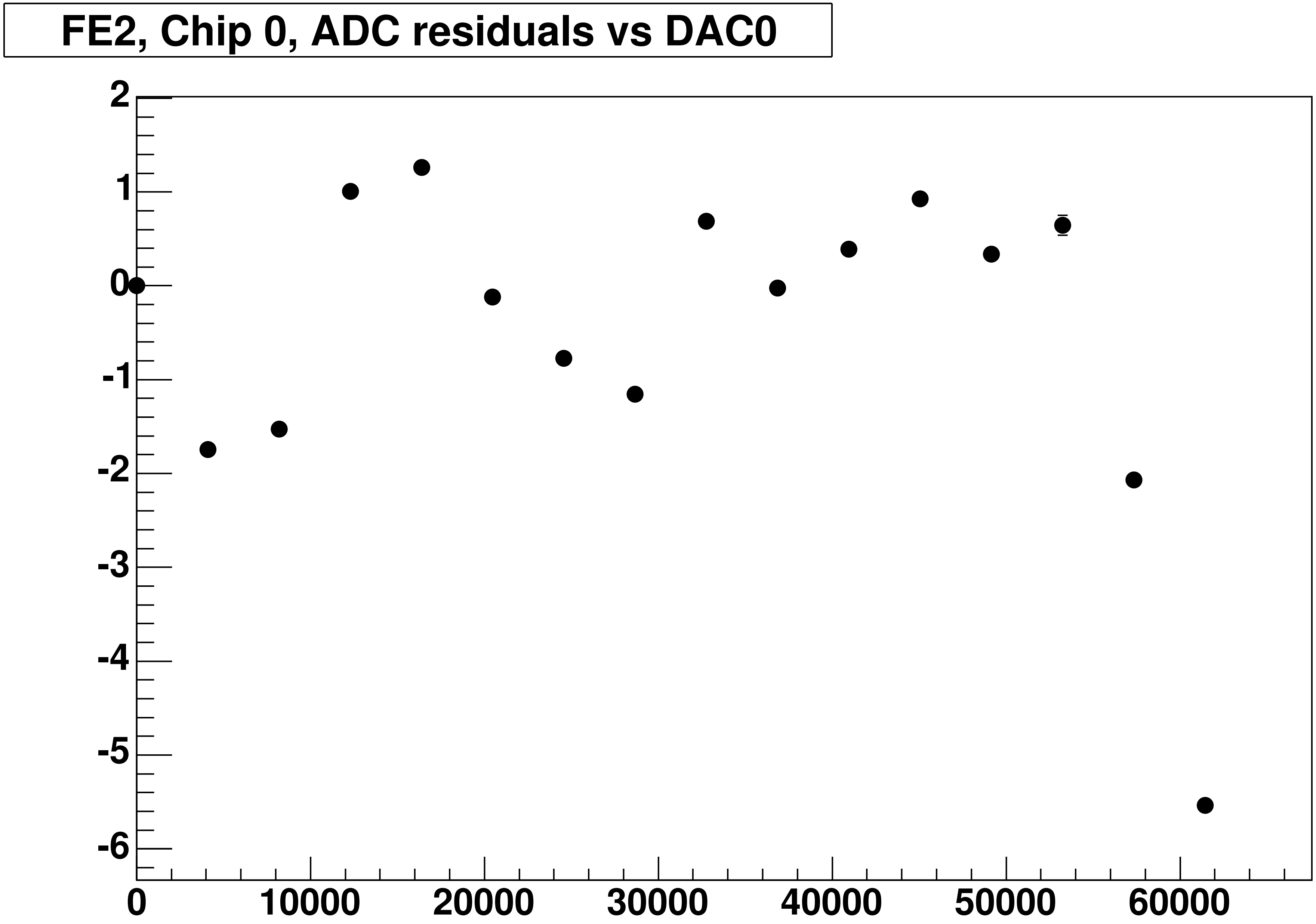


FE1, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

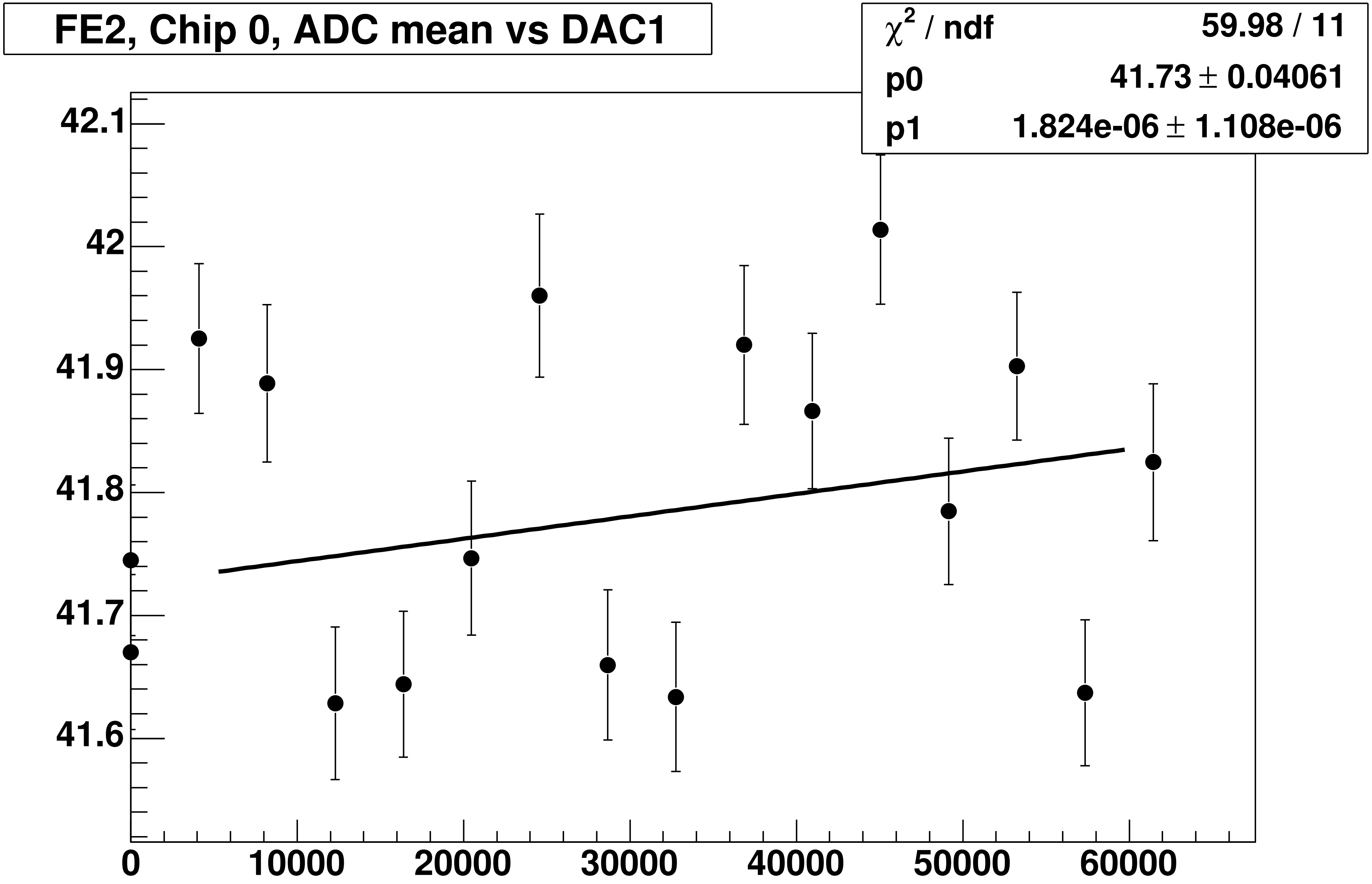


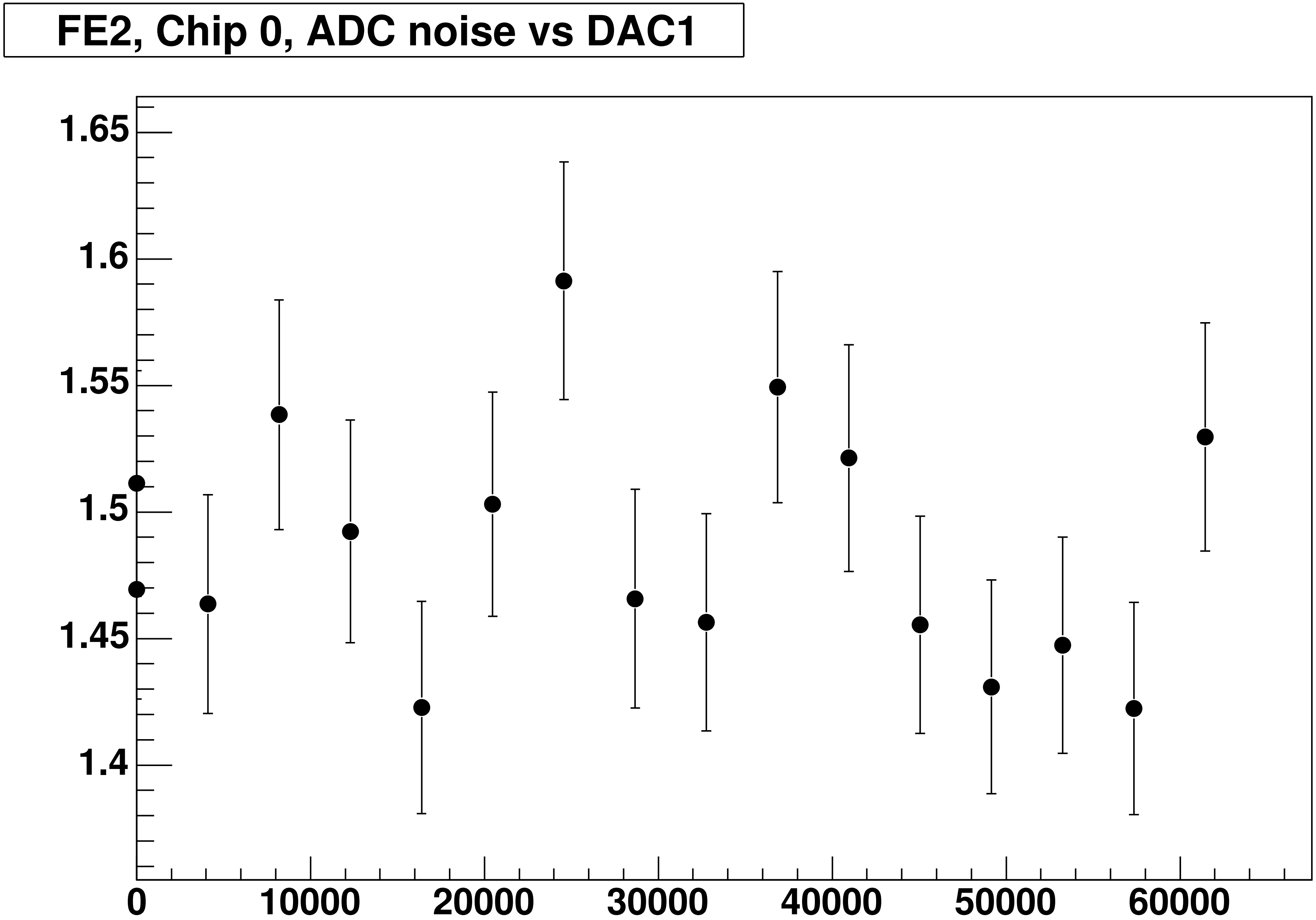
FE2, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2548 / 11
p0 44.33 ± 0.04236
p1 0.4507 ± 1.369e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

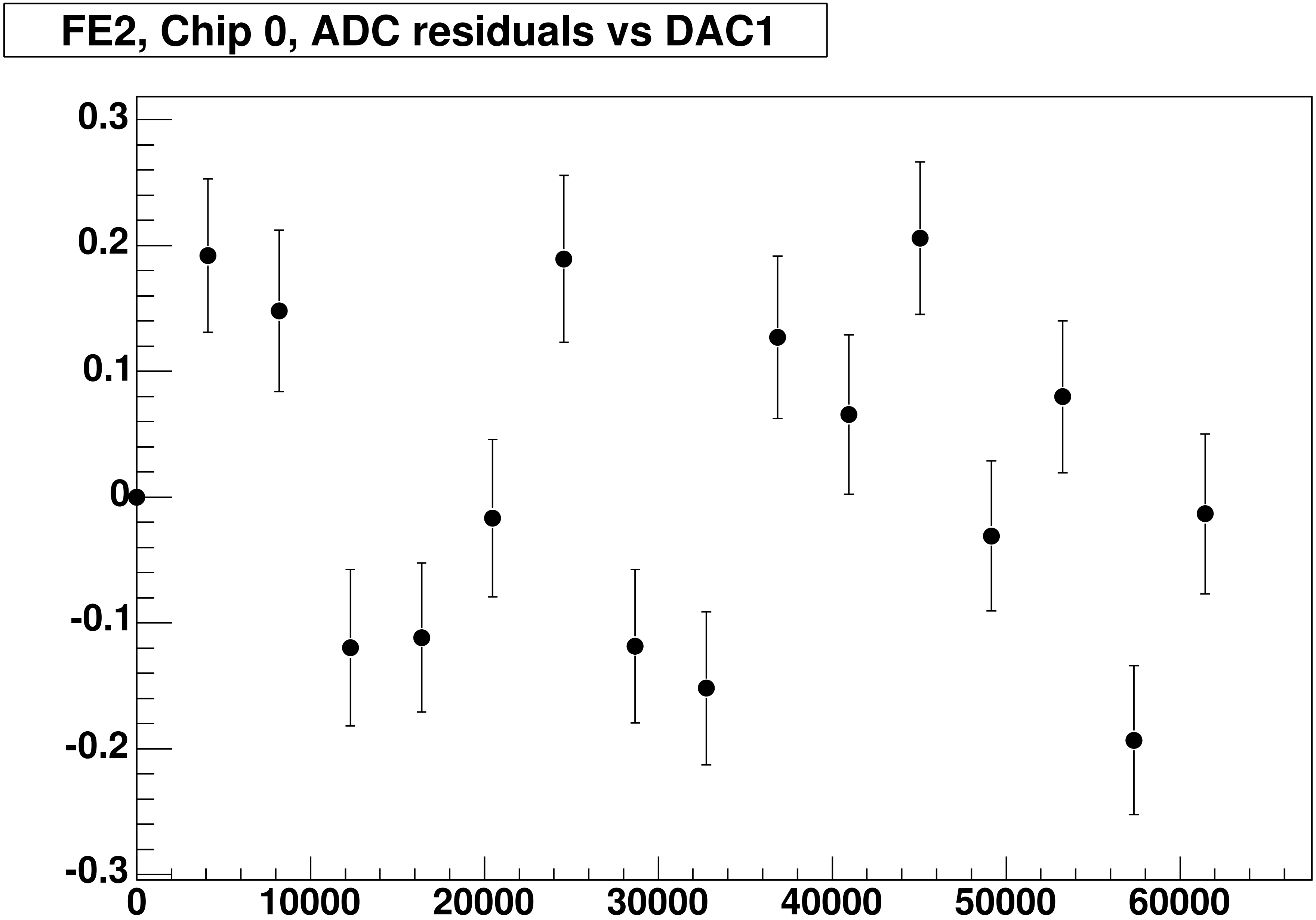

FE2, Chip 0, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

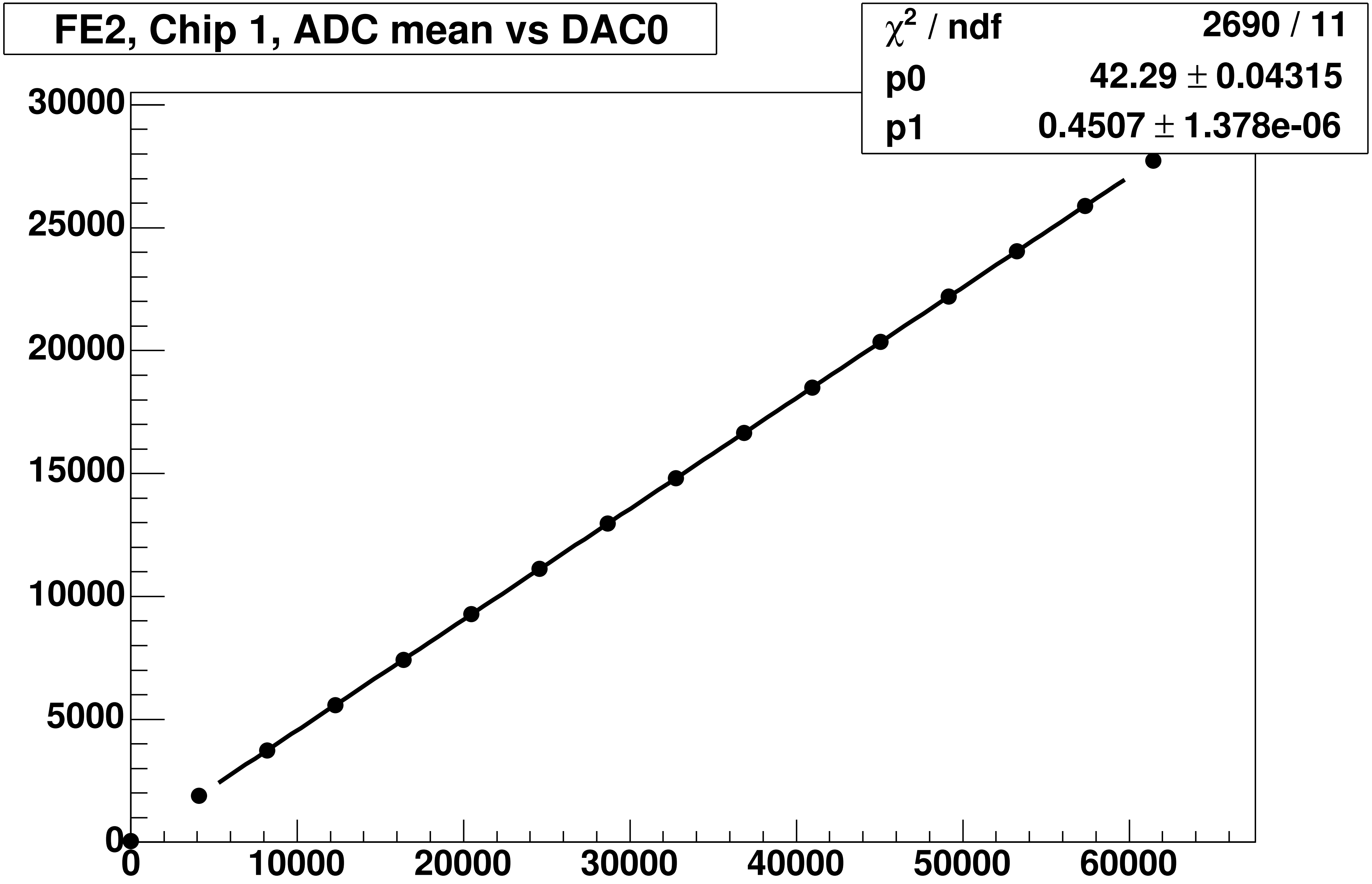


FE2, Chip 0, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

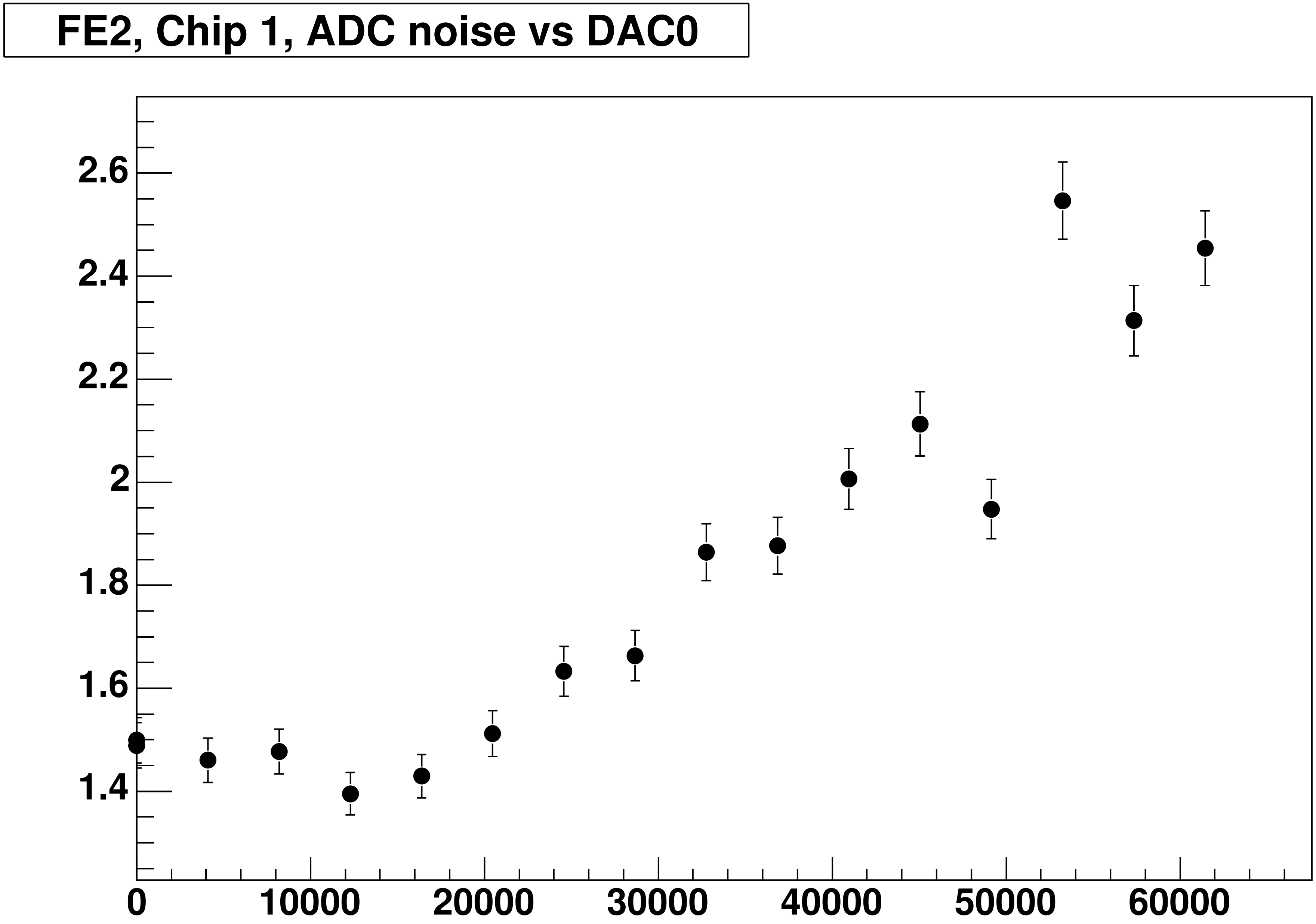

FE2, Chip 0, ADC mean vs DAC1
χ2 / ndf 59.98 / 11
p0 41.73 ± 0.04061
p1 1.824e-06 ± 1.108e-06
42.1
42
41.9
41.8
41.7
41.6
0
10000
20000
30000
40000
50000
60000

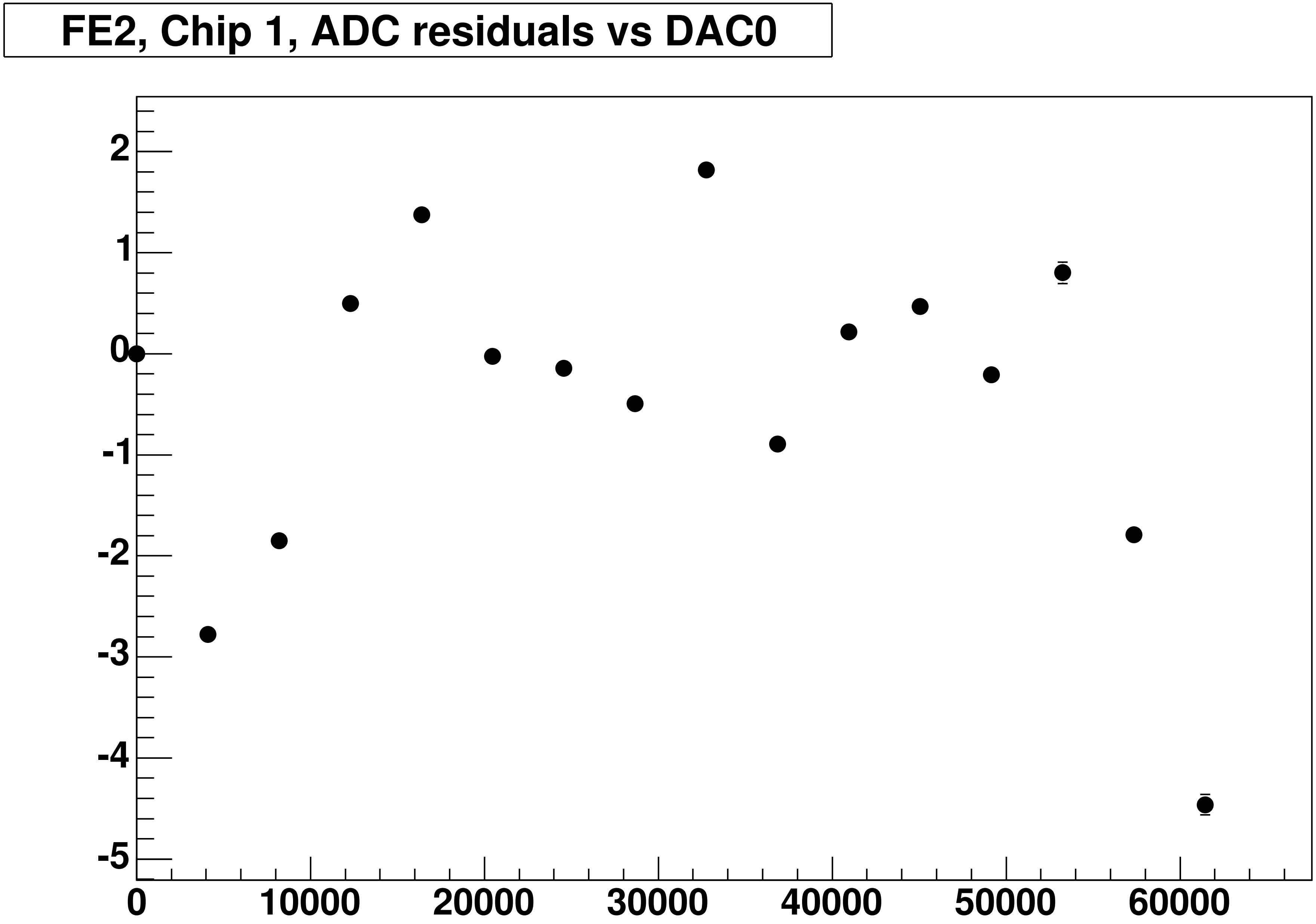

FE2, Chip 0, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

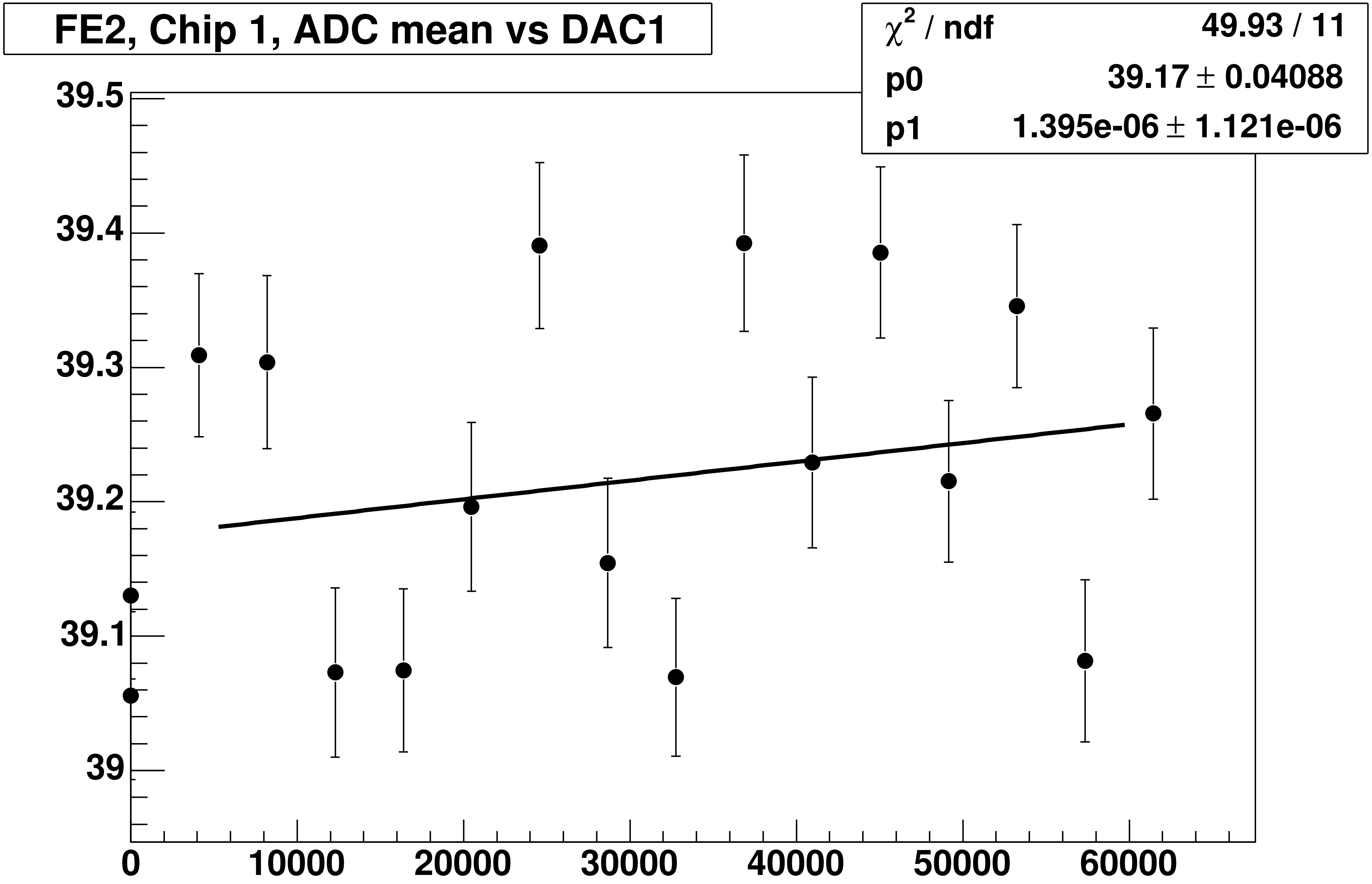

FE2, Chip 0, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



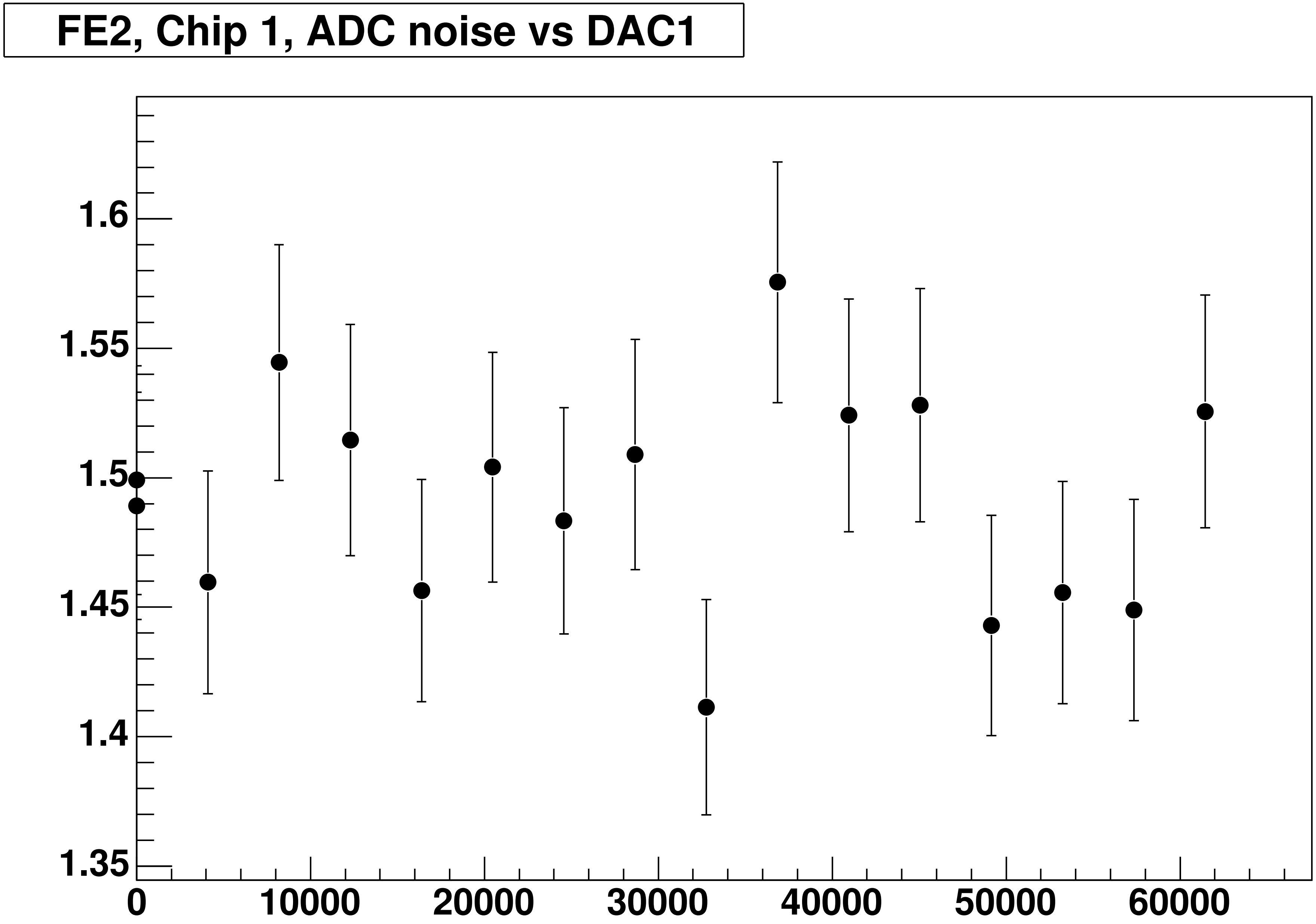
FE2, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2690 / 11
p0 42.29 ± 0.04315
p1 0.4507 ± 1.378e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

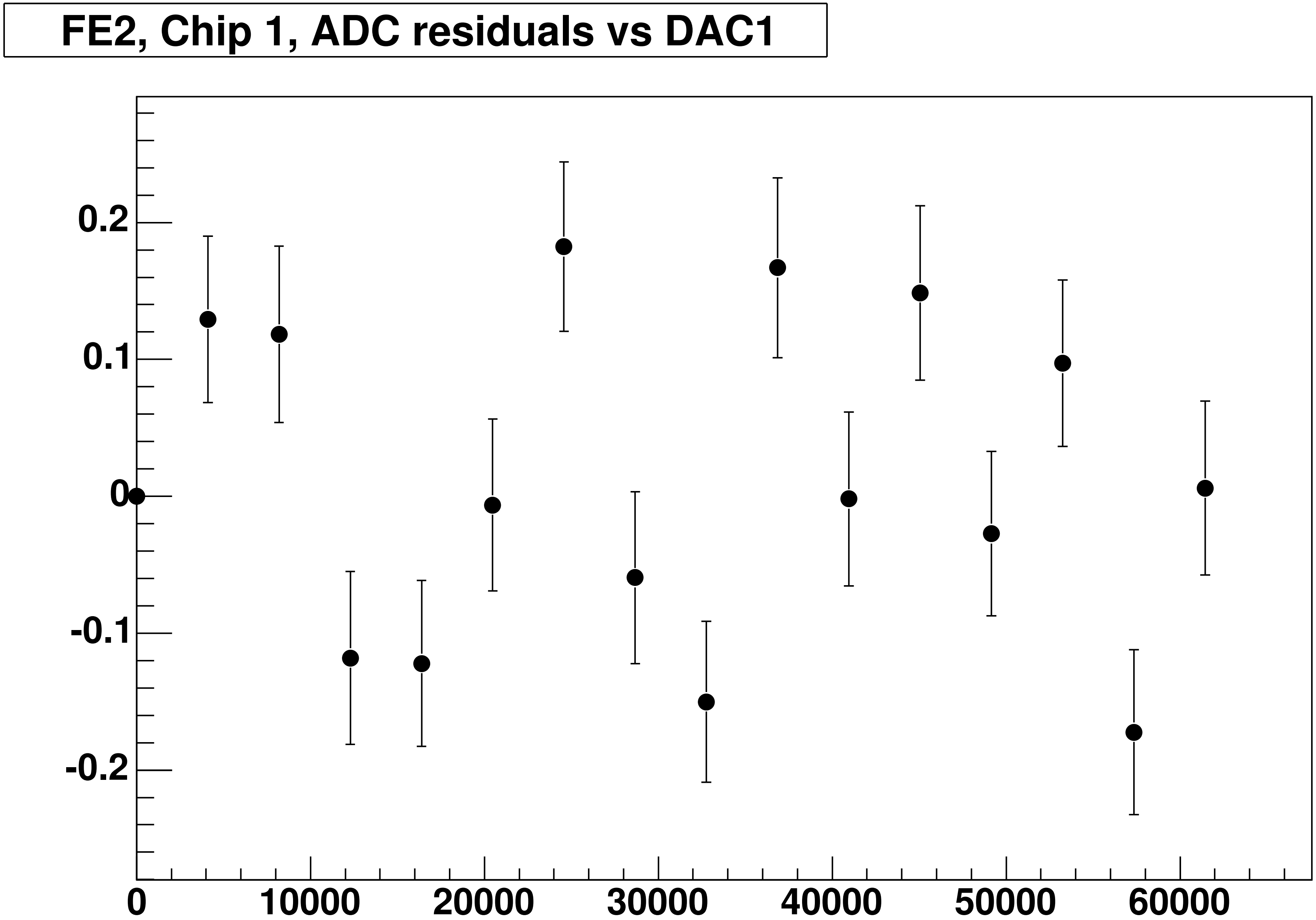

FE2, Chip 1, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

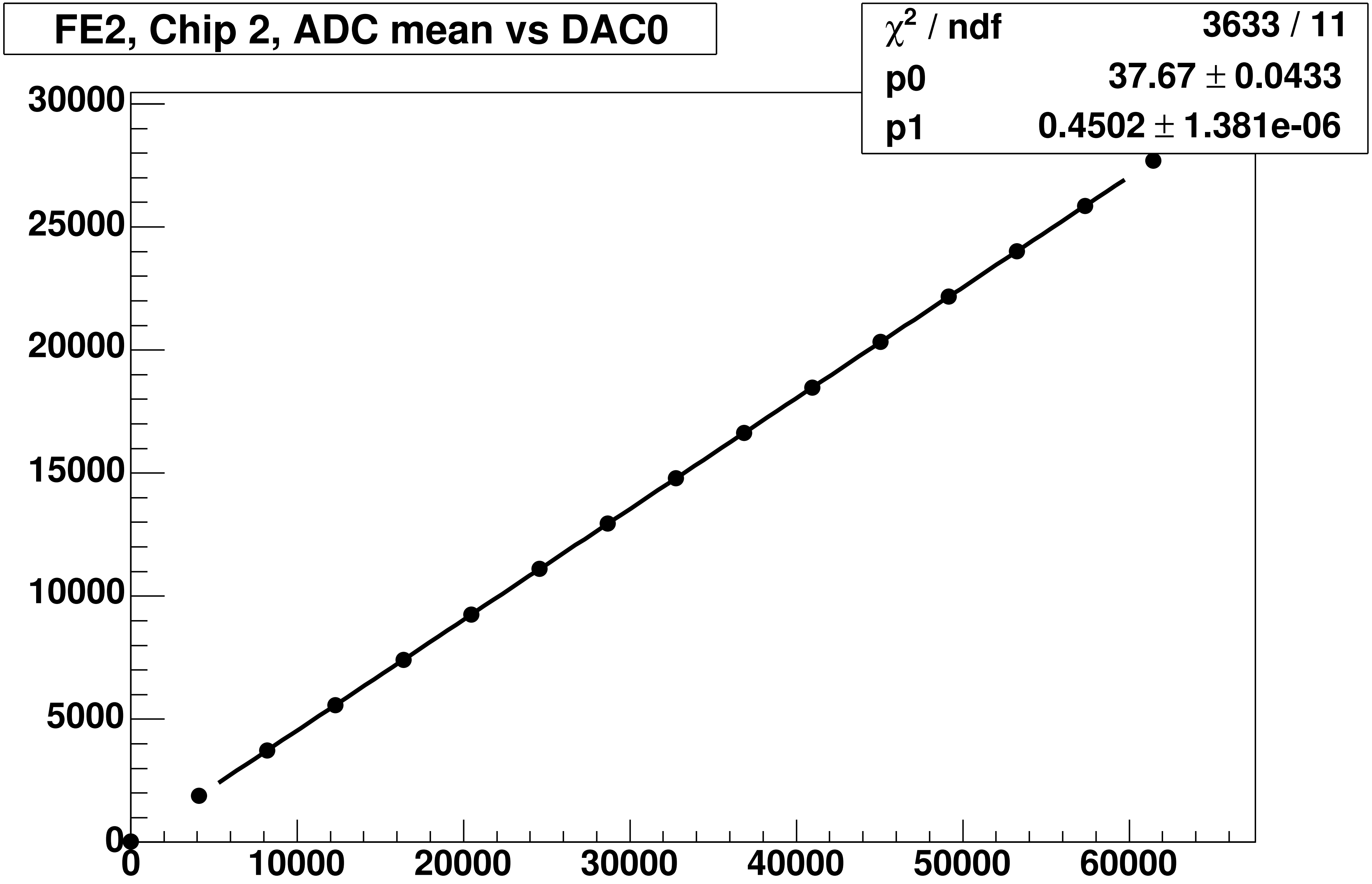


FE2, Chip 1, ADC mean vs DAC1
χ^2 / ndf 49.93 / 11
p0 39.17 ± 0.04088
p1 1.395e-06 ± 1.121e-06
39.5
39.4
39.3
39.2
39.1
39
0
10000
20000
30000
40000
50000
60000

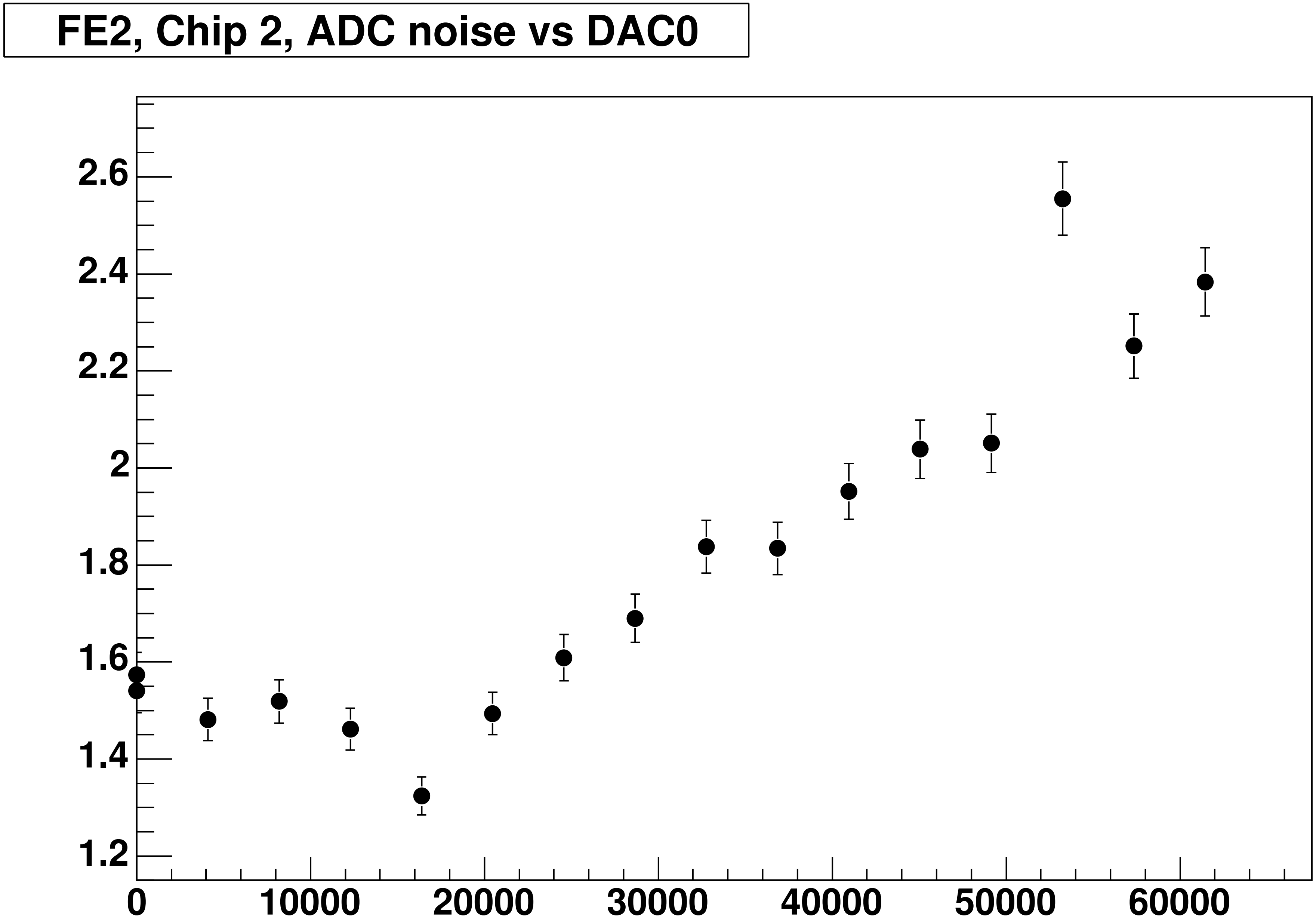

FE2, Chip 1, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



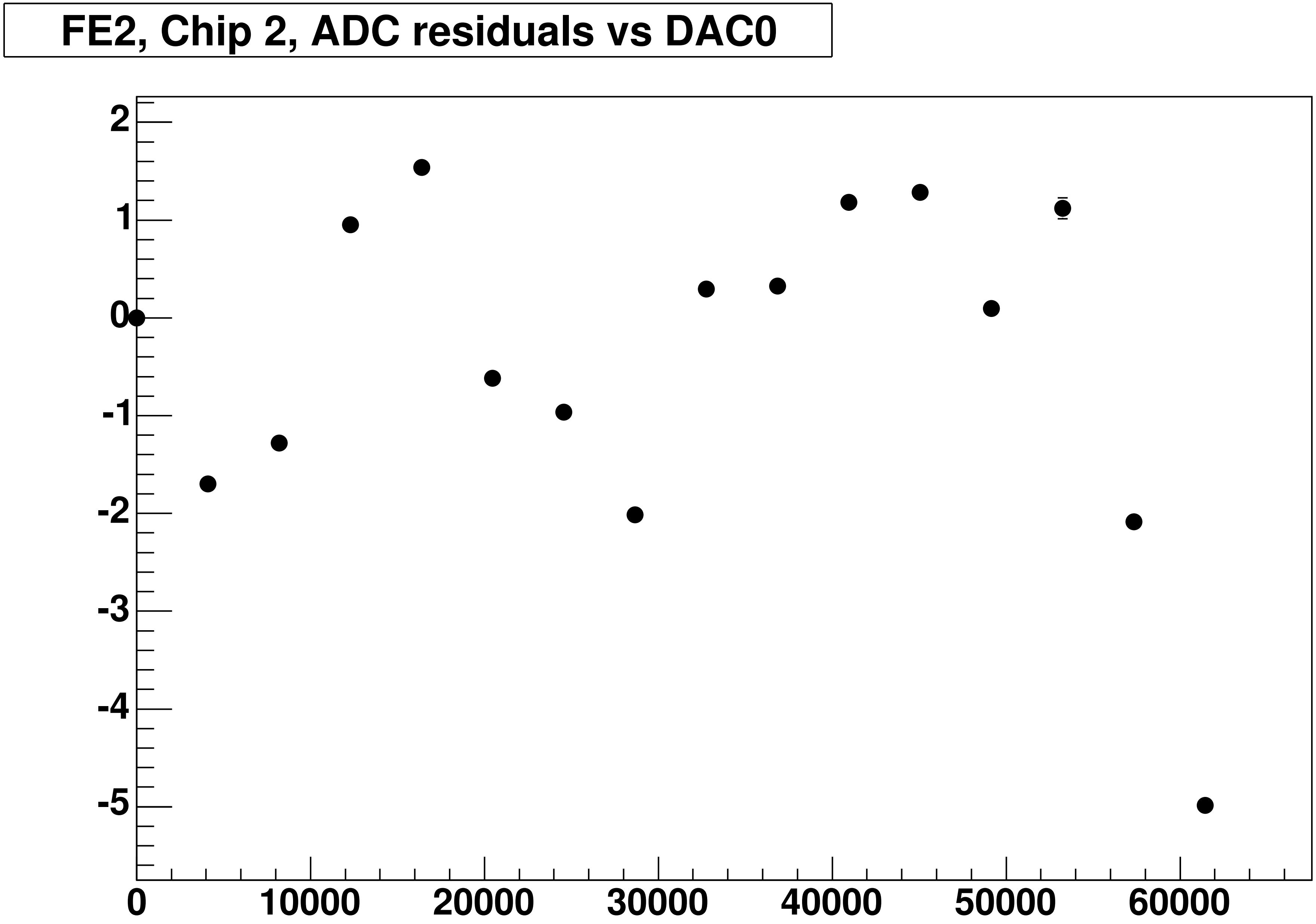
FE2, Chip 1, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

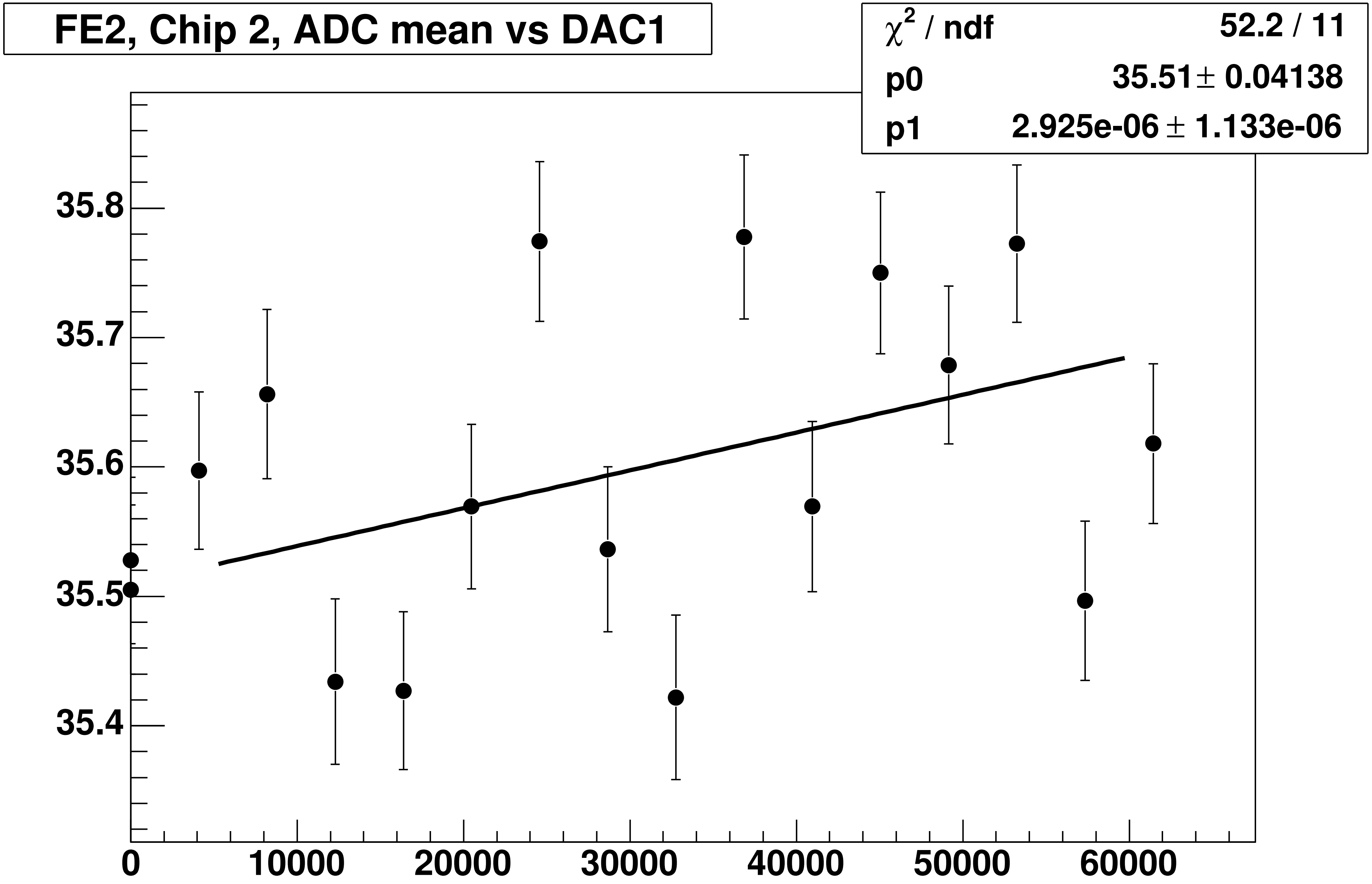


FE2, Chip 2, ADC mean vs DAC0
χ^2 / ndf 3633 / 11
p0 37.67 ± 0.0433
p1 0.4502 ± 1.381e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

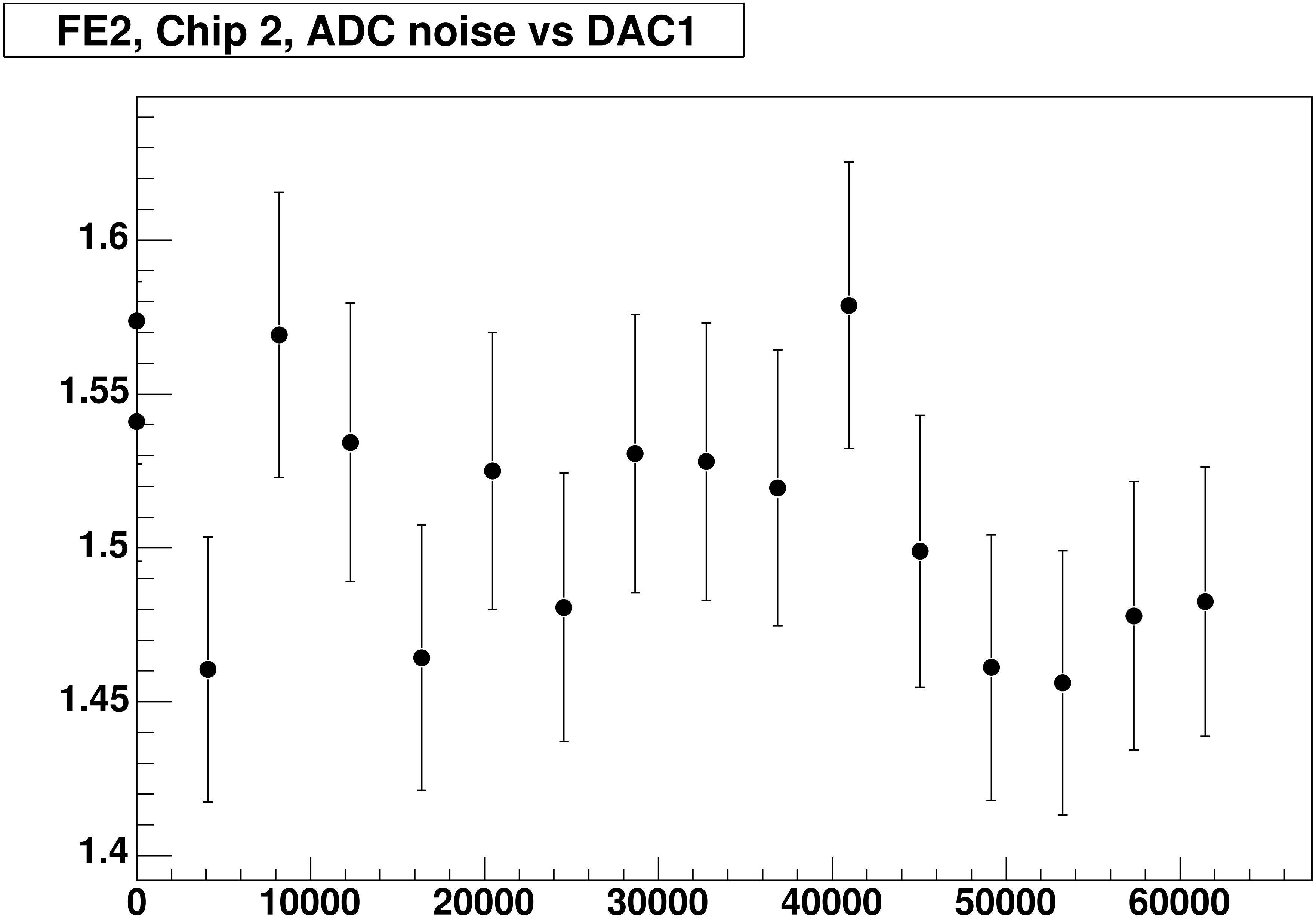


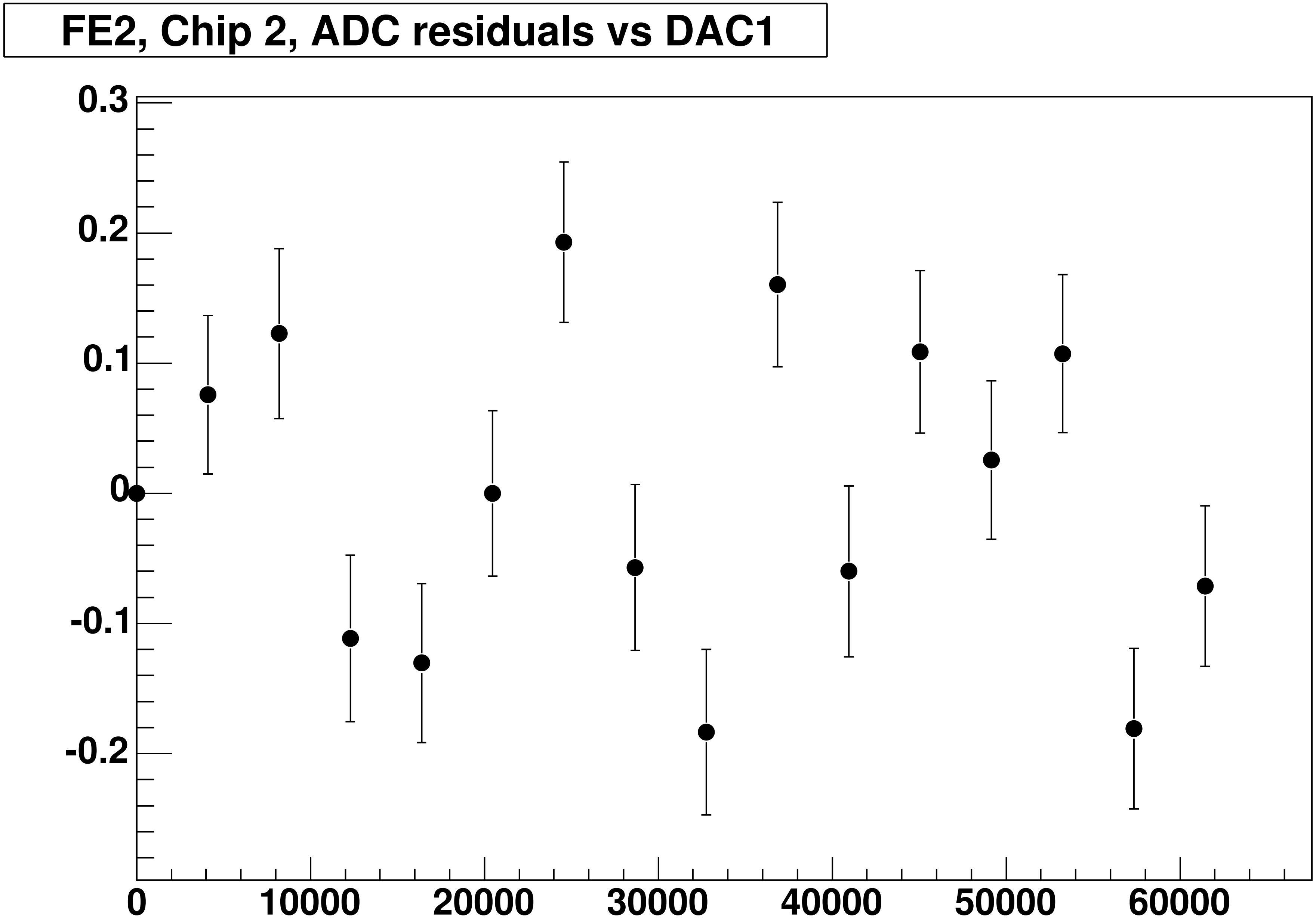
FE2, Chip 2, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

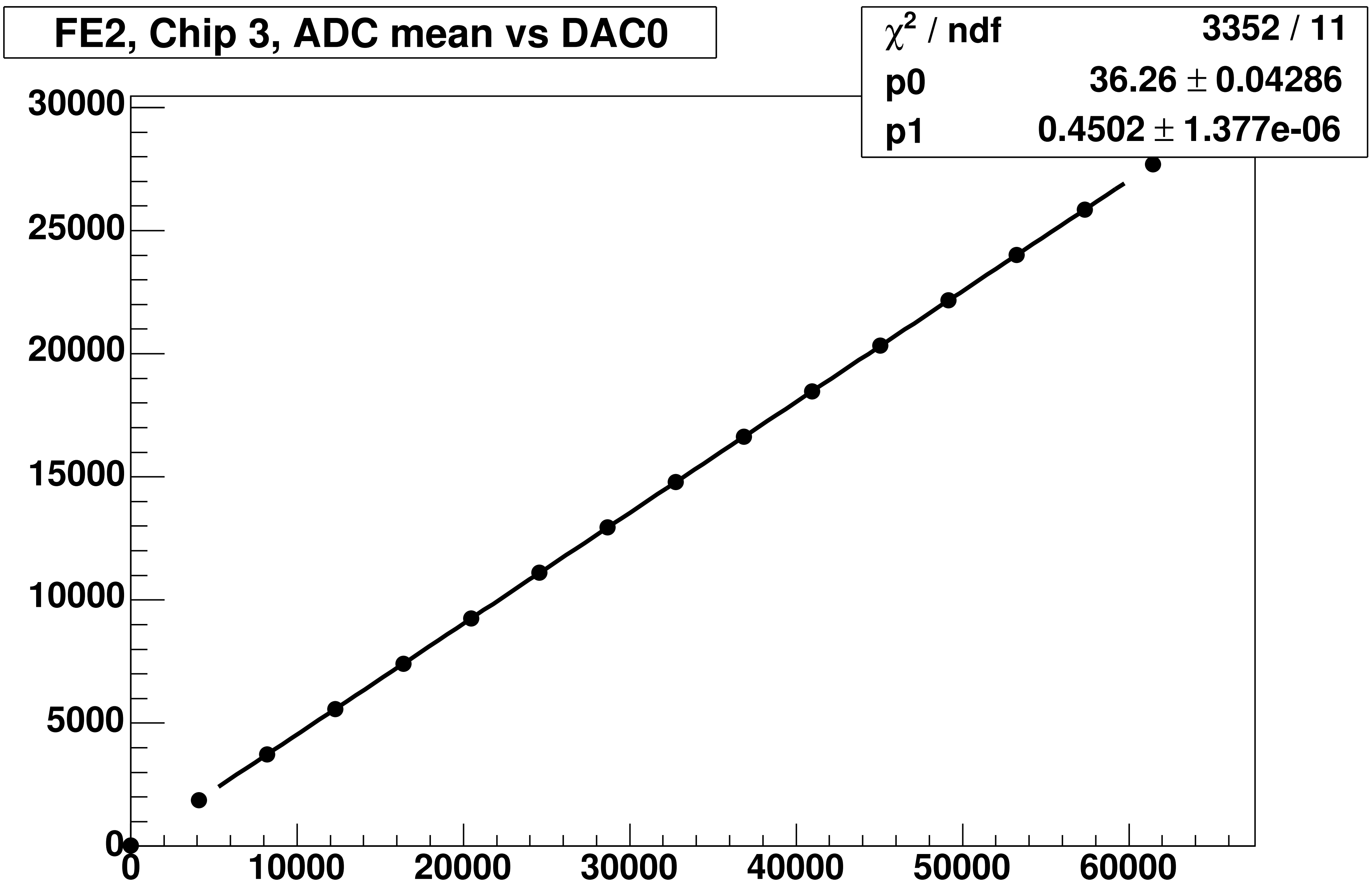


FE2, Chip 2, ADC mean vs DAC1
χ^2 / ndf 52.2 / 11
p0 35.51 ± 0.04138
p1 2.925e-06 ± 1.133e-06
35.8
35.7
35.6
35.5
35.4
0
10000
20000
30000
40000
50000
60000

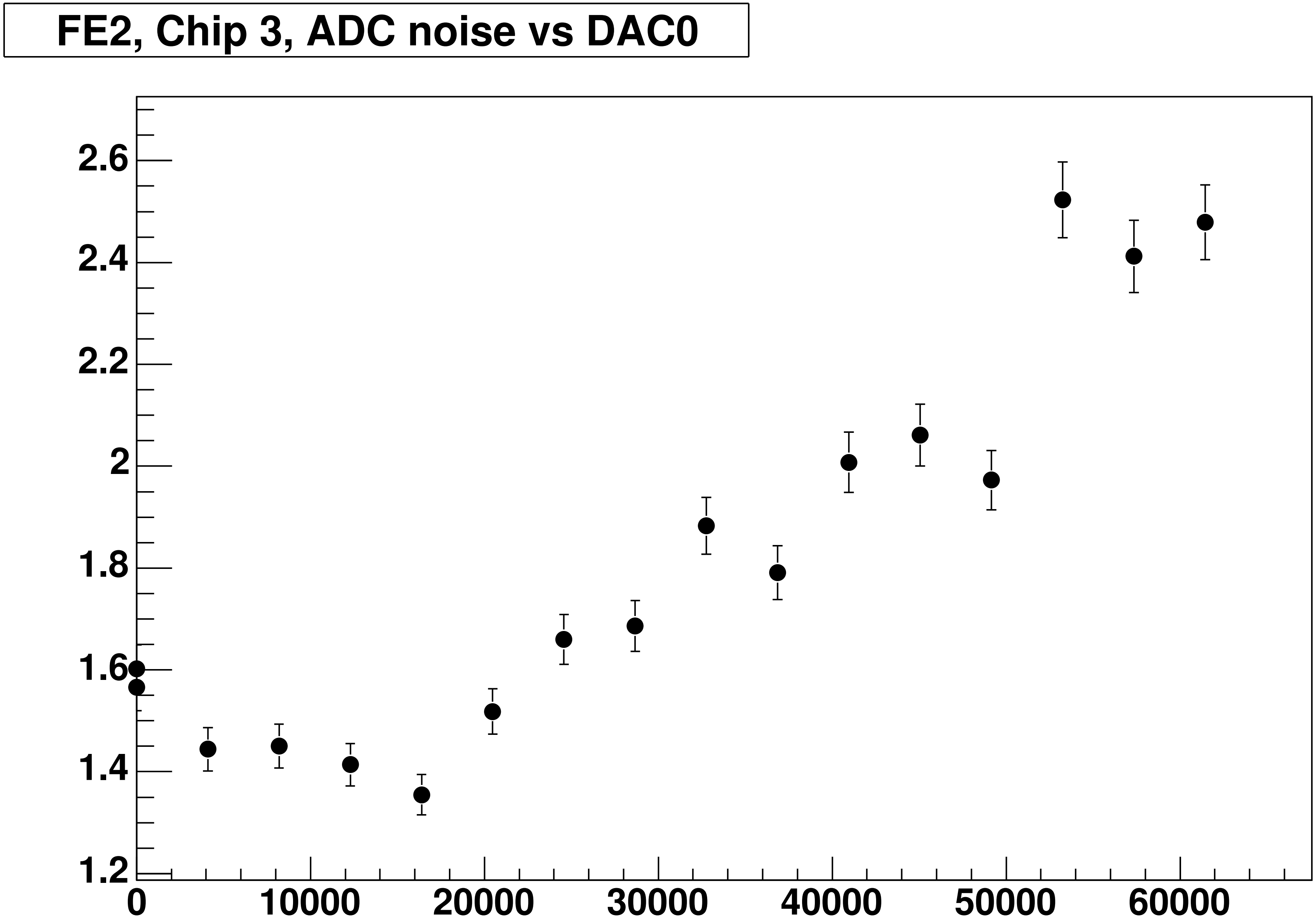

FE2, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

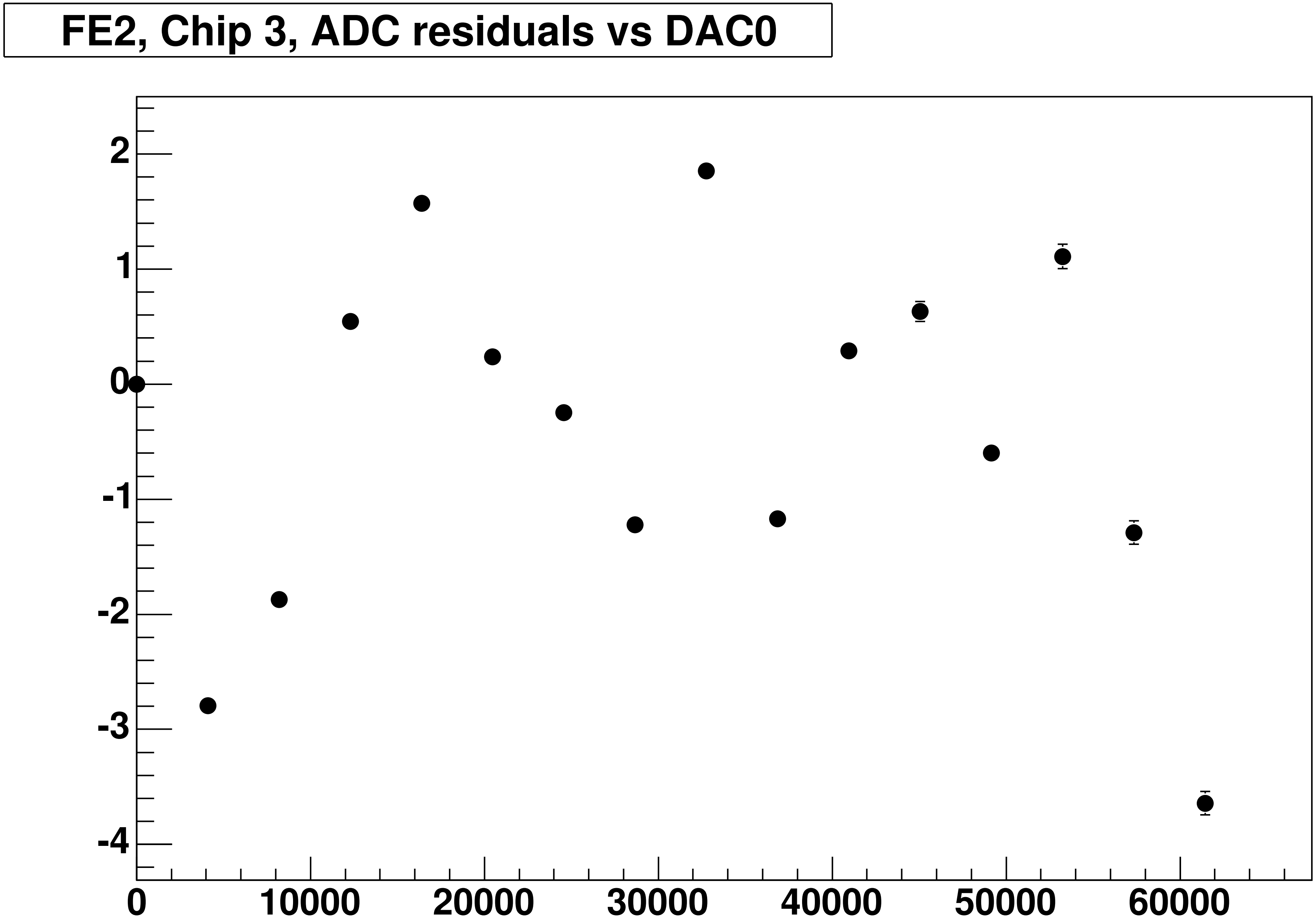


FE2, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

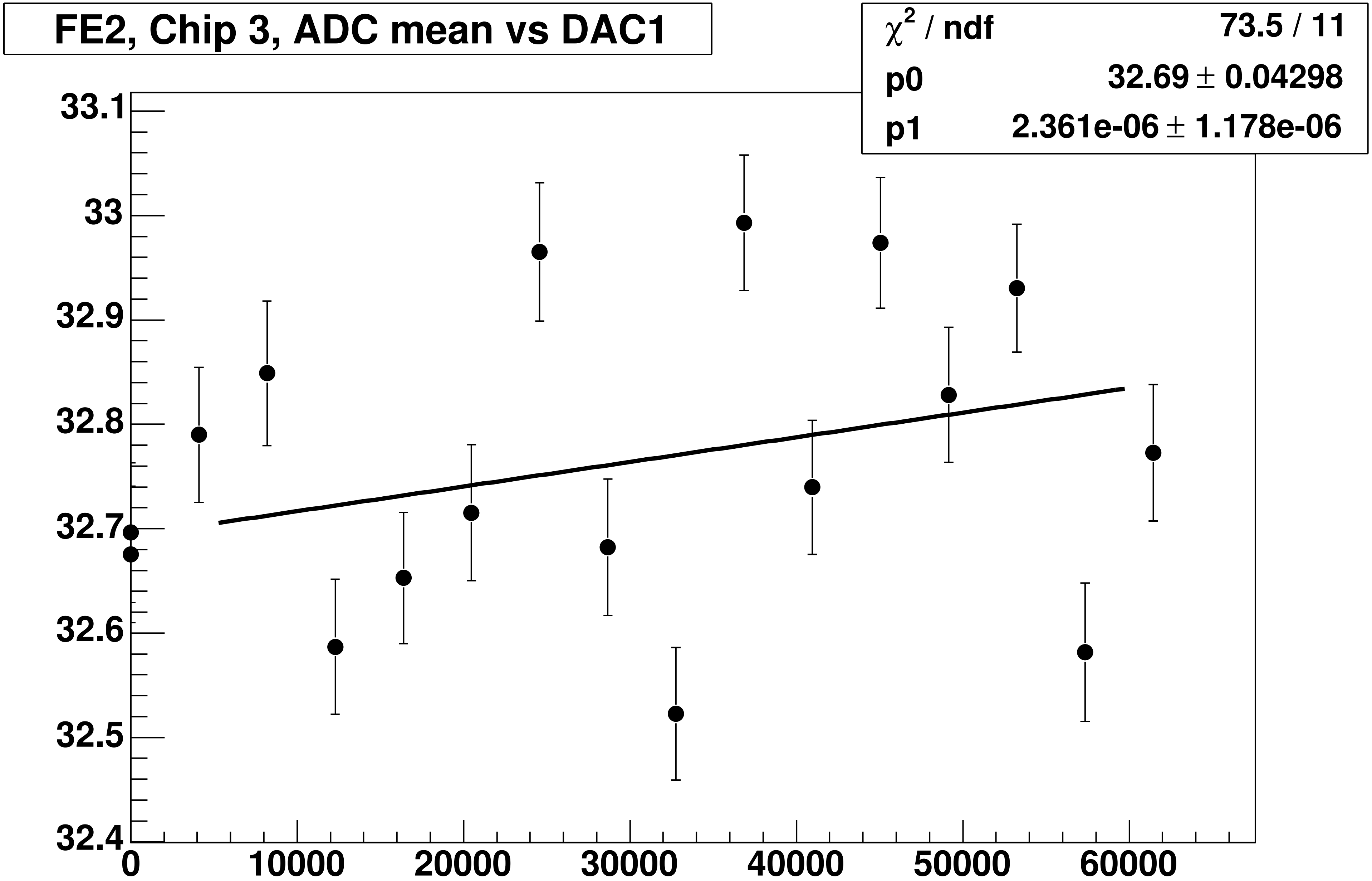


FE2, Chip 3, ADC mean vs DAC0
χ2 / ndf 3352 / 11
p0 36.26 ± 0.04286
p1 0.4502 ± 1.377e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

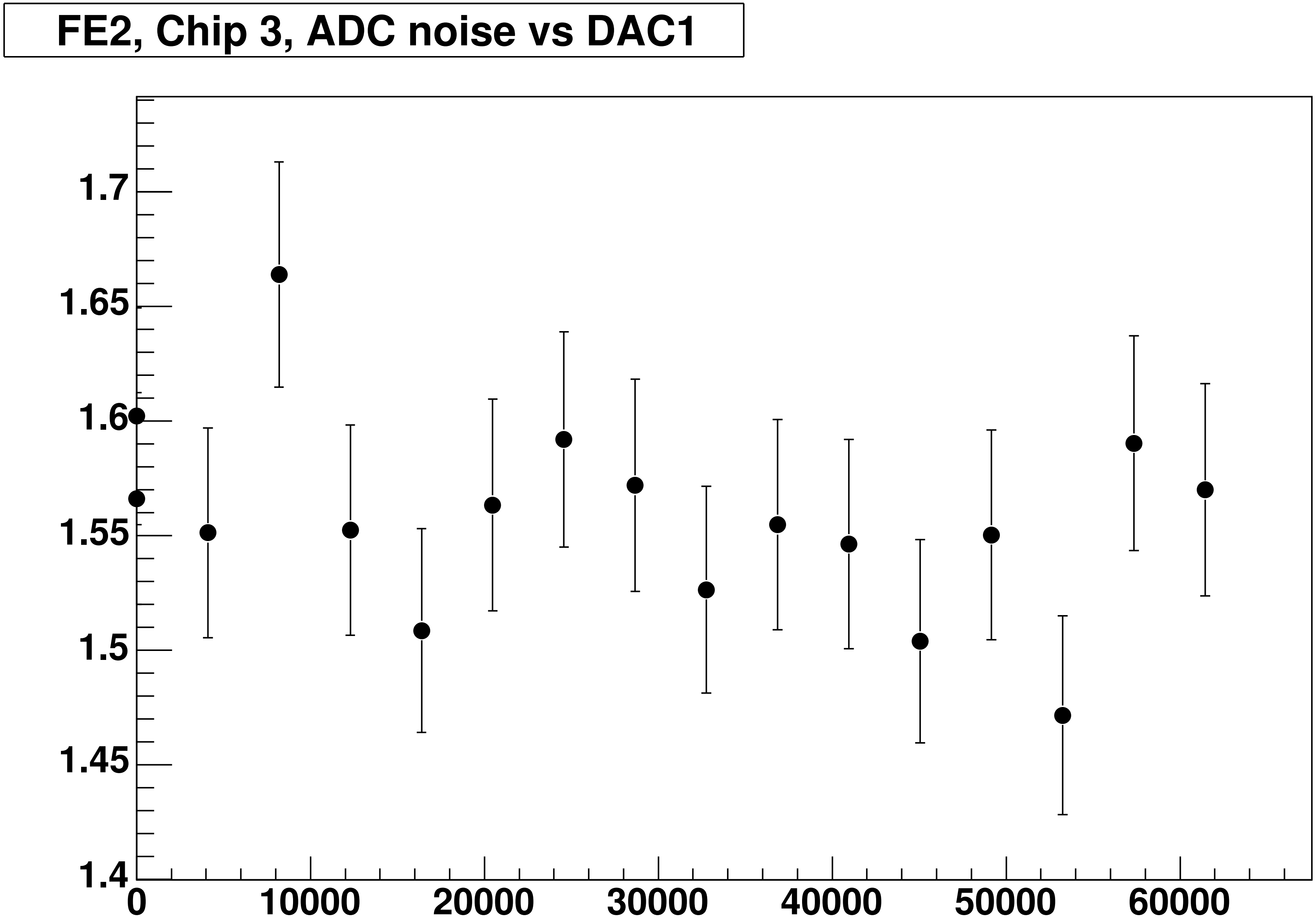

FE2, Chip 3, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



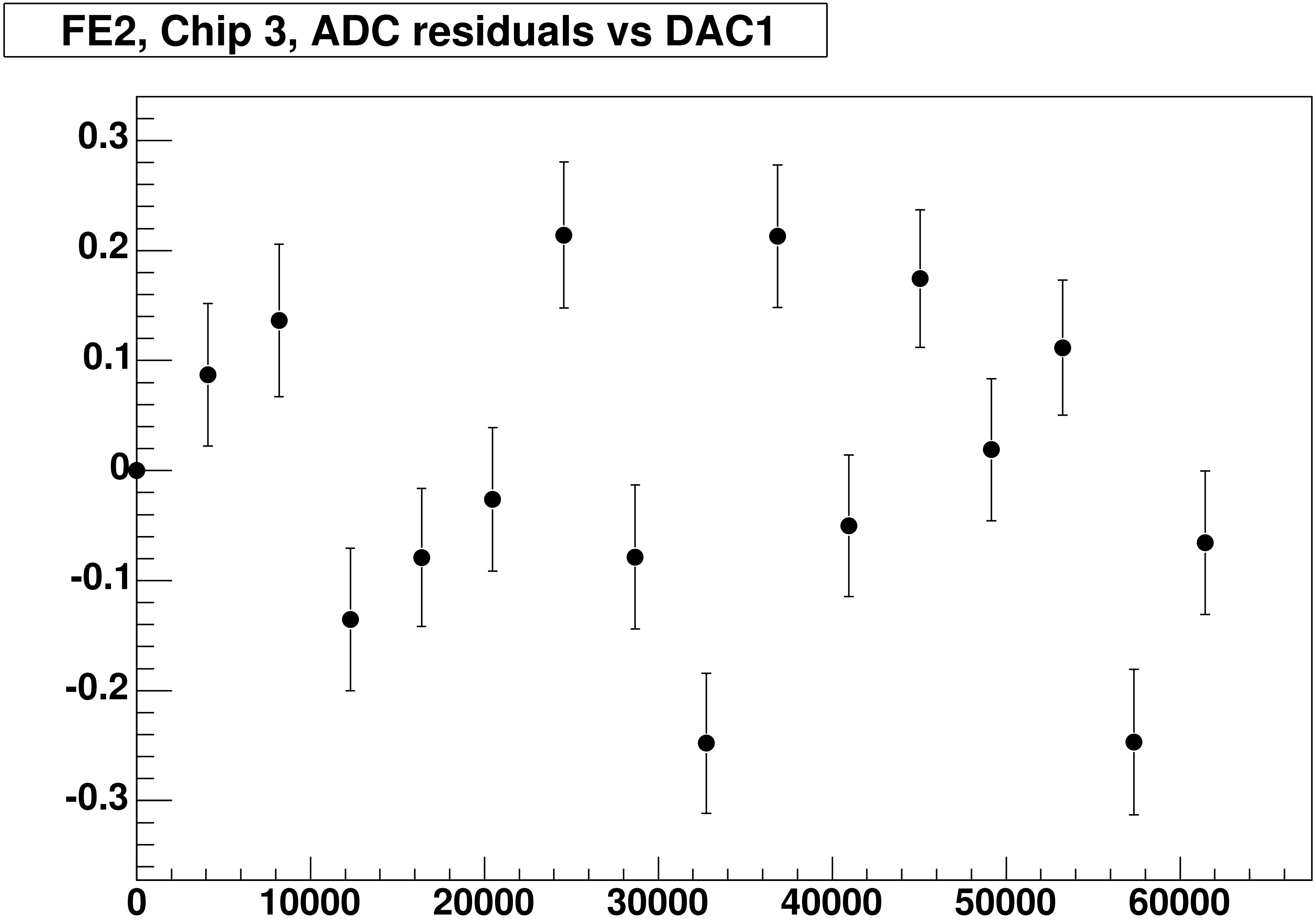
FE2, Chip 3, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

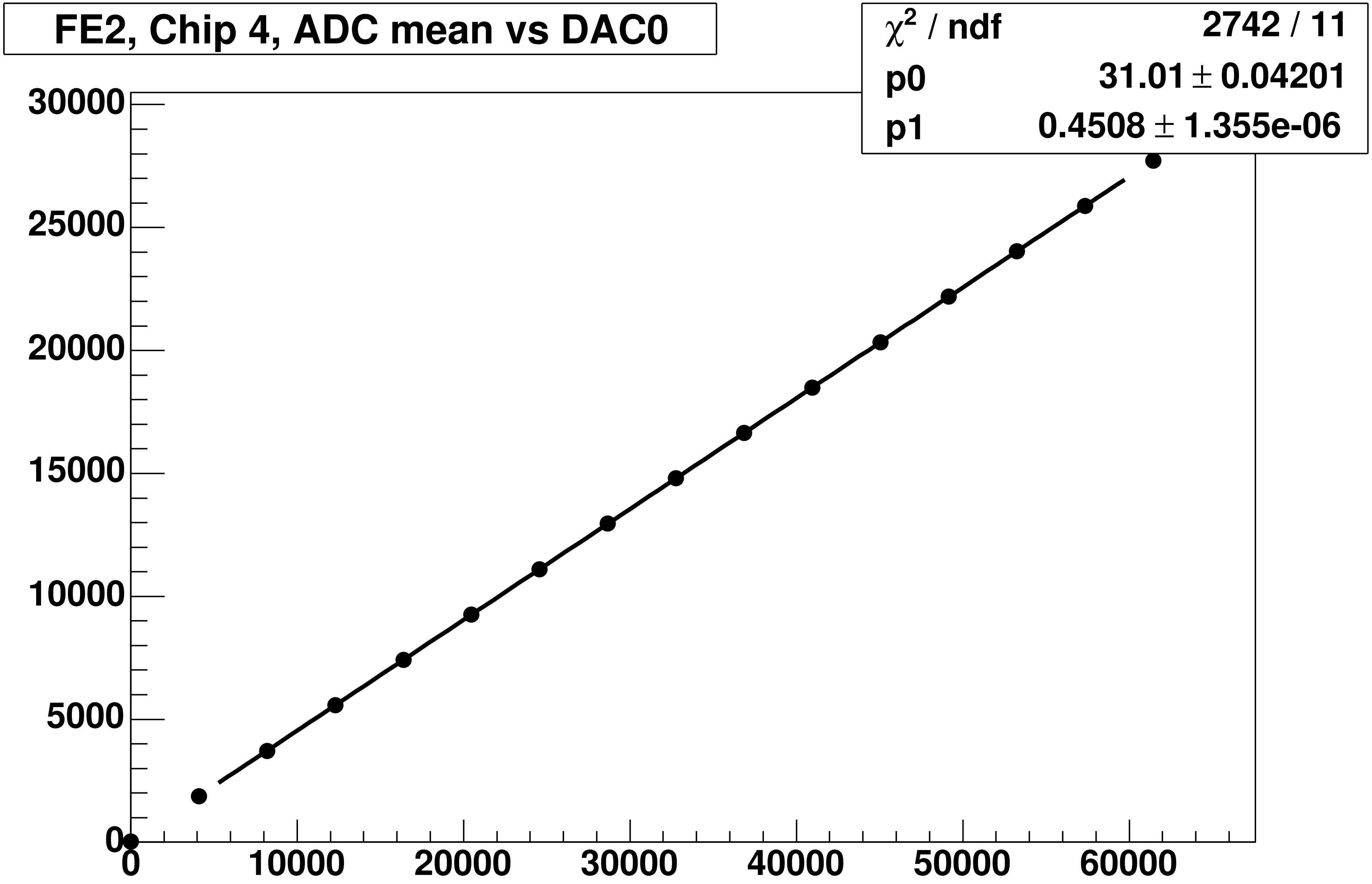


FE2, Chip 3, ADC mean vs DAC1
χ^2 / ndf 73.5 / 11
p0 32.69 ± 0.04298
p1 2.361e-06 ± 1.178e-06
33.1
33
32.9
32.8
32.7
32.6
32.5
32.4
0
10000
20000
30000
40000
50000
60000

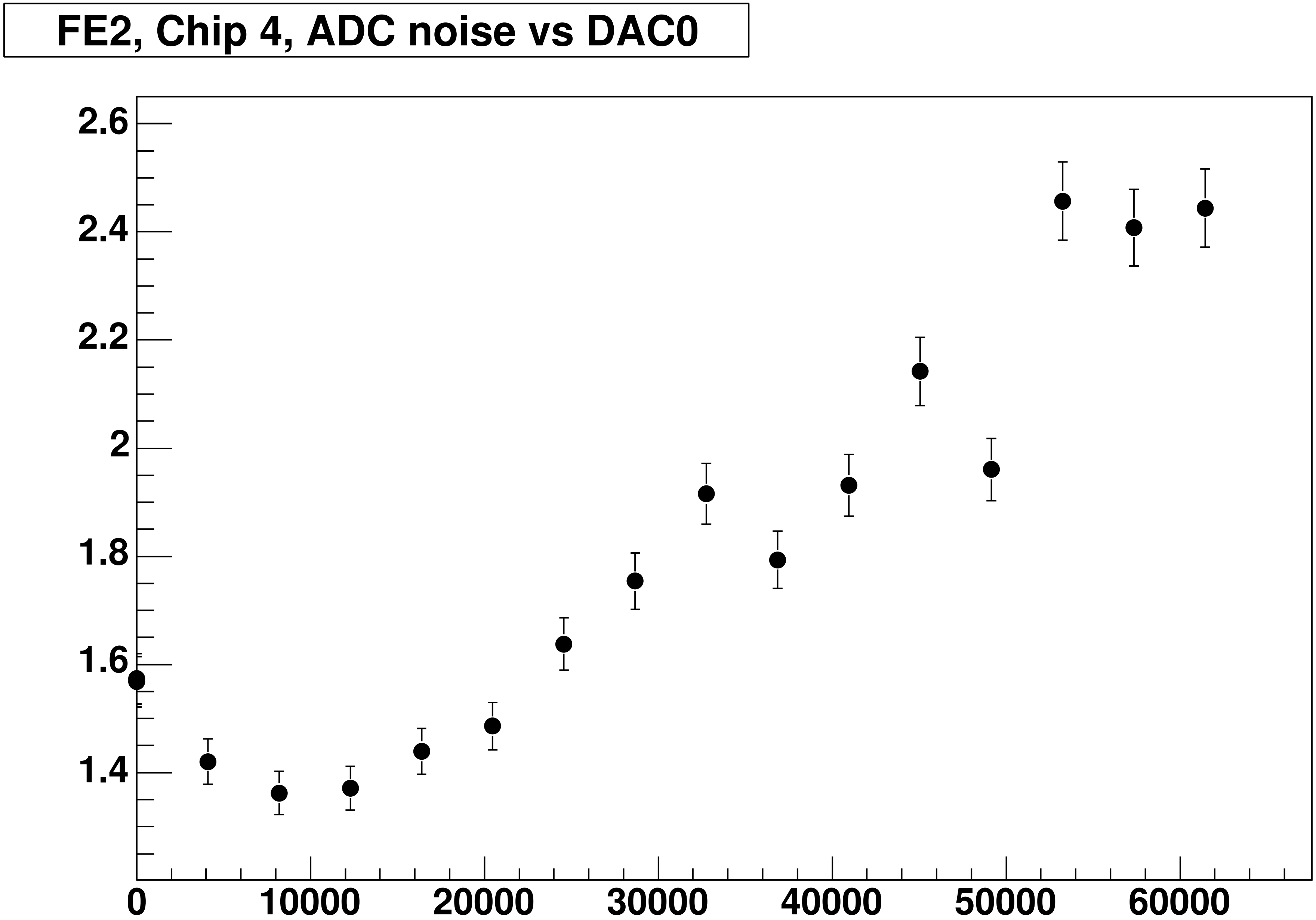


FE2, Chip 3, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

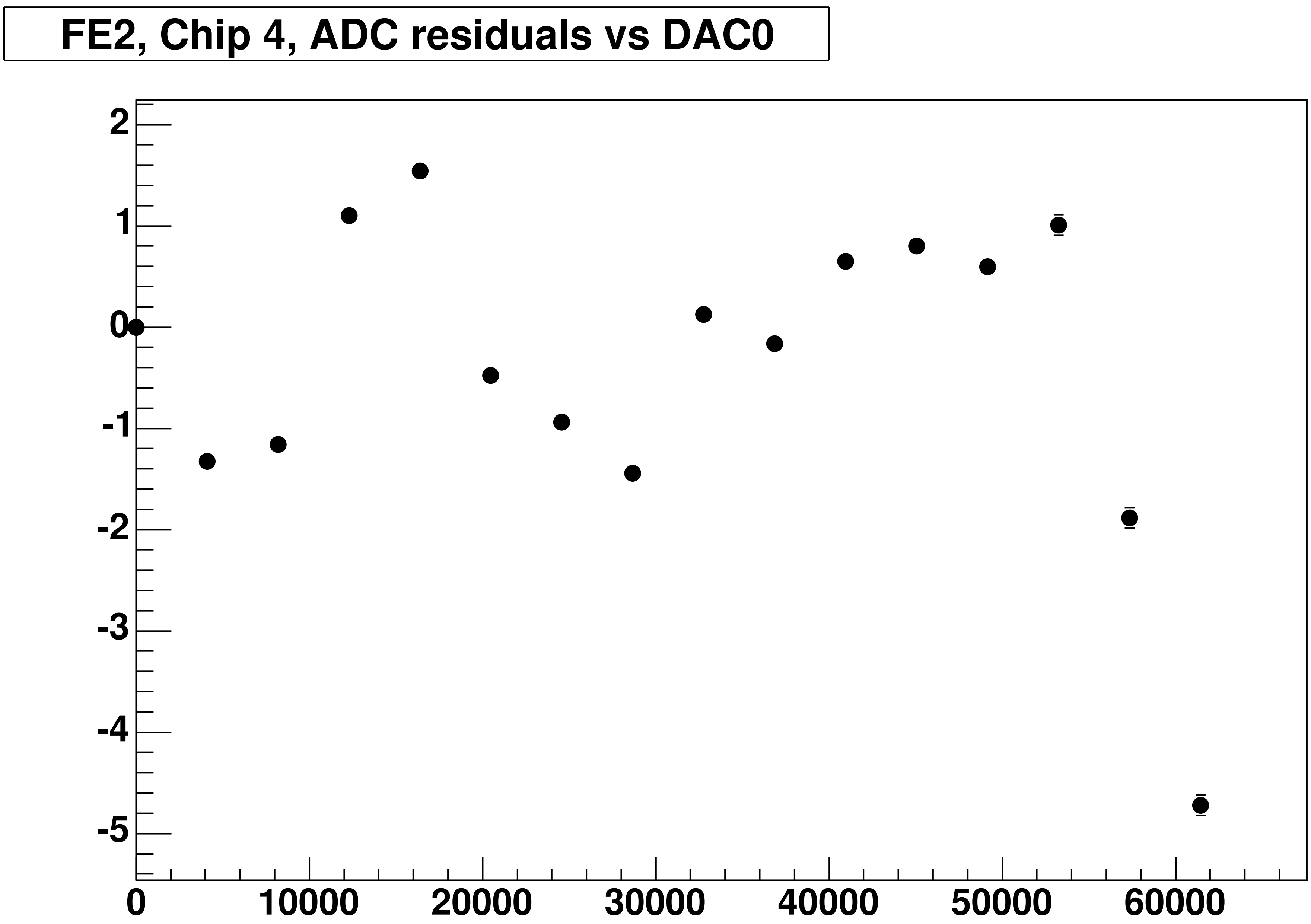

FE2, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

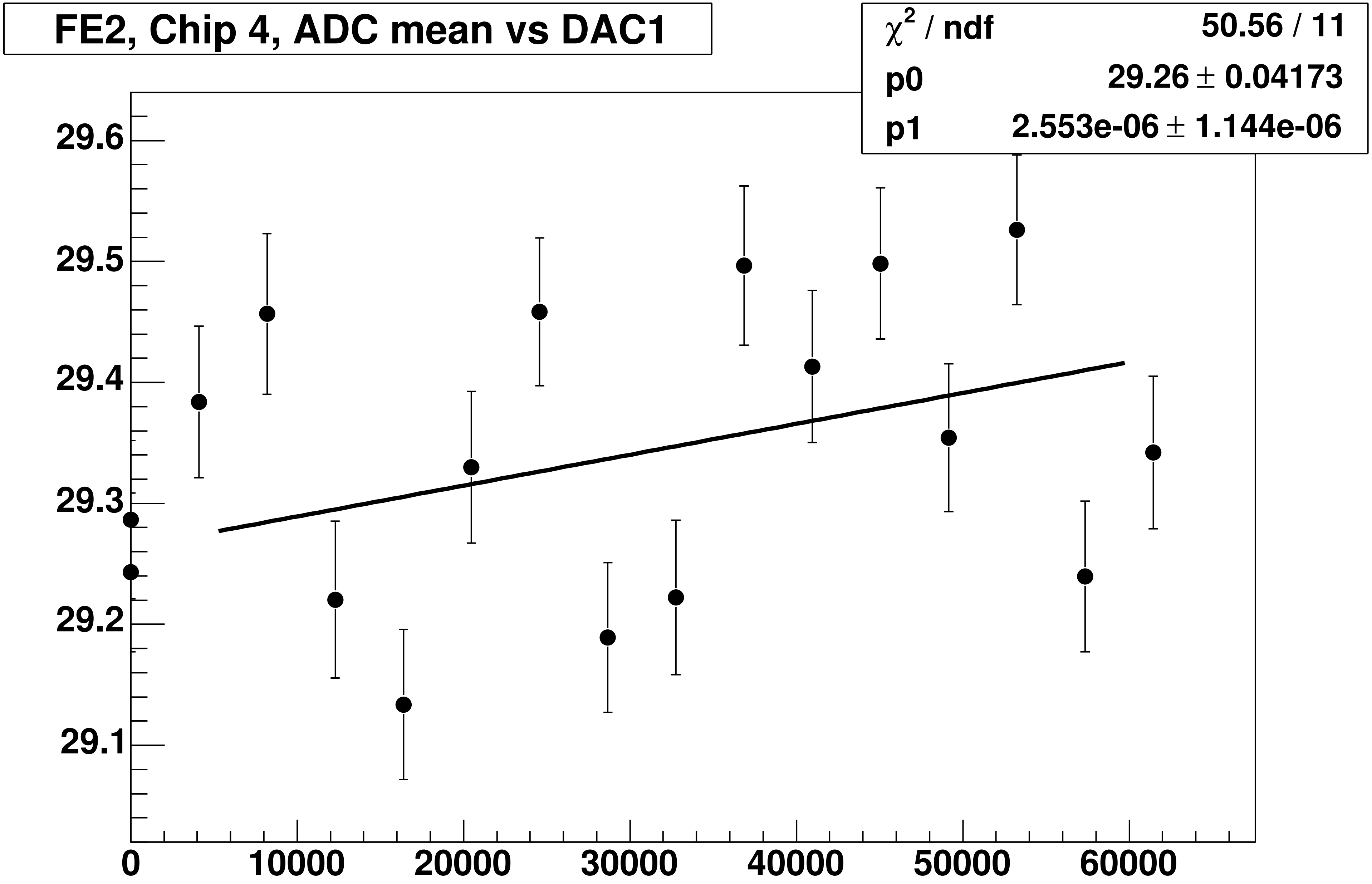


FE2, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2742 / 11
p0 31.01 ± 0.04201
p1 0.4508 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

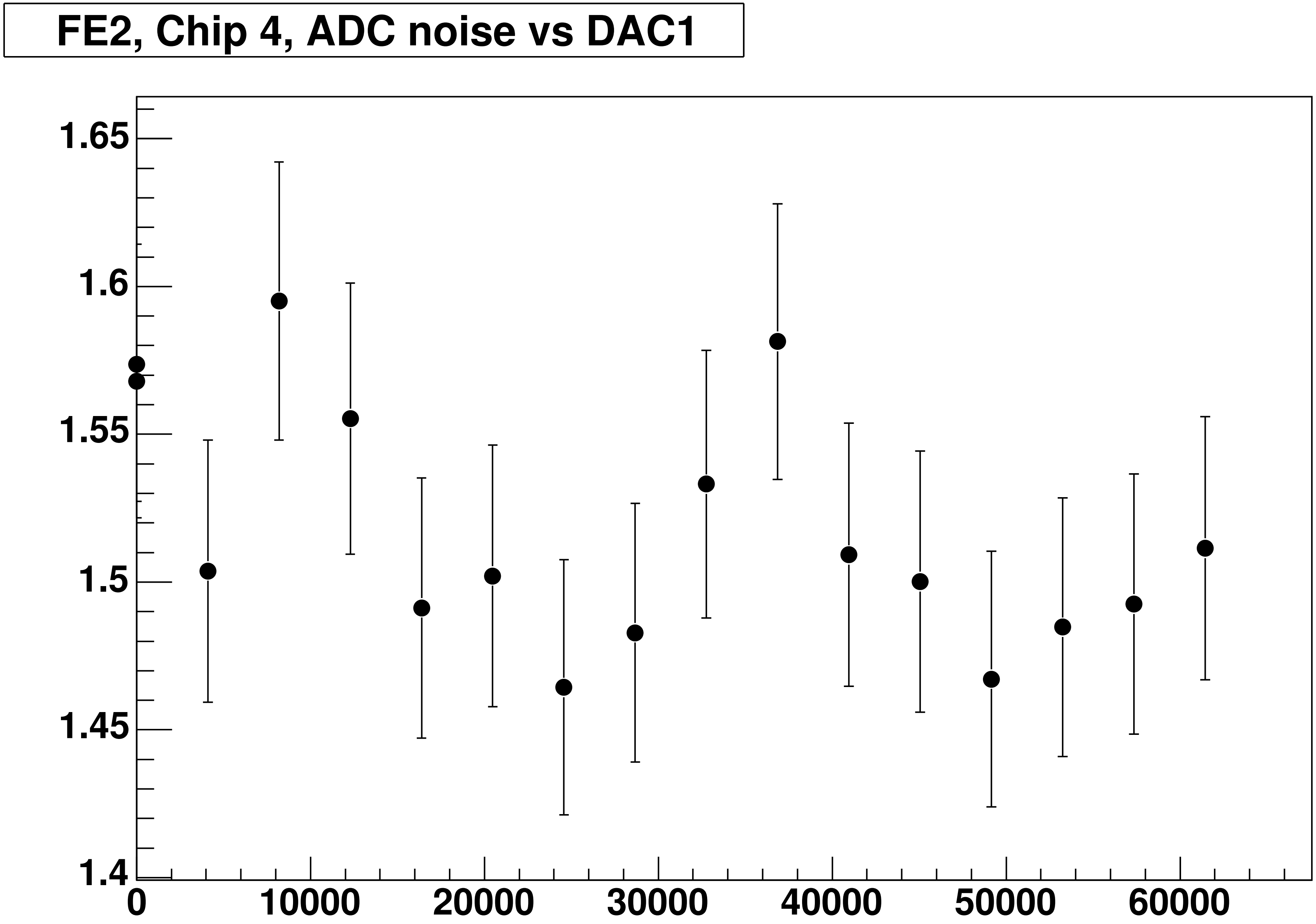


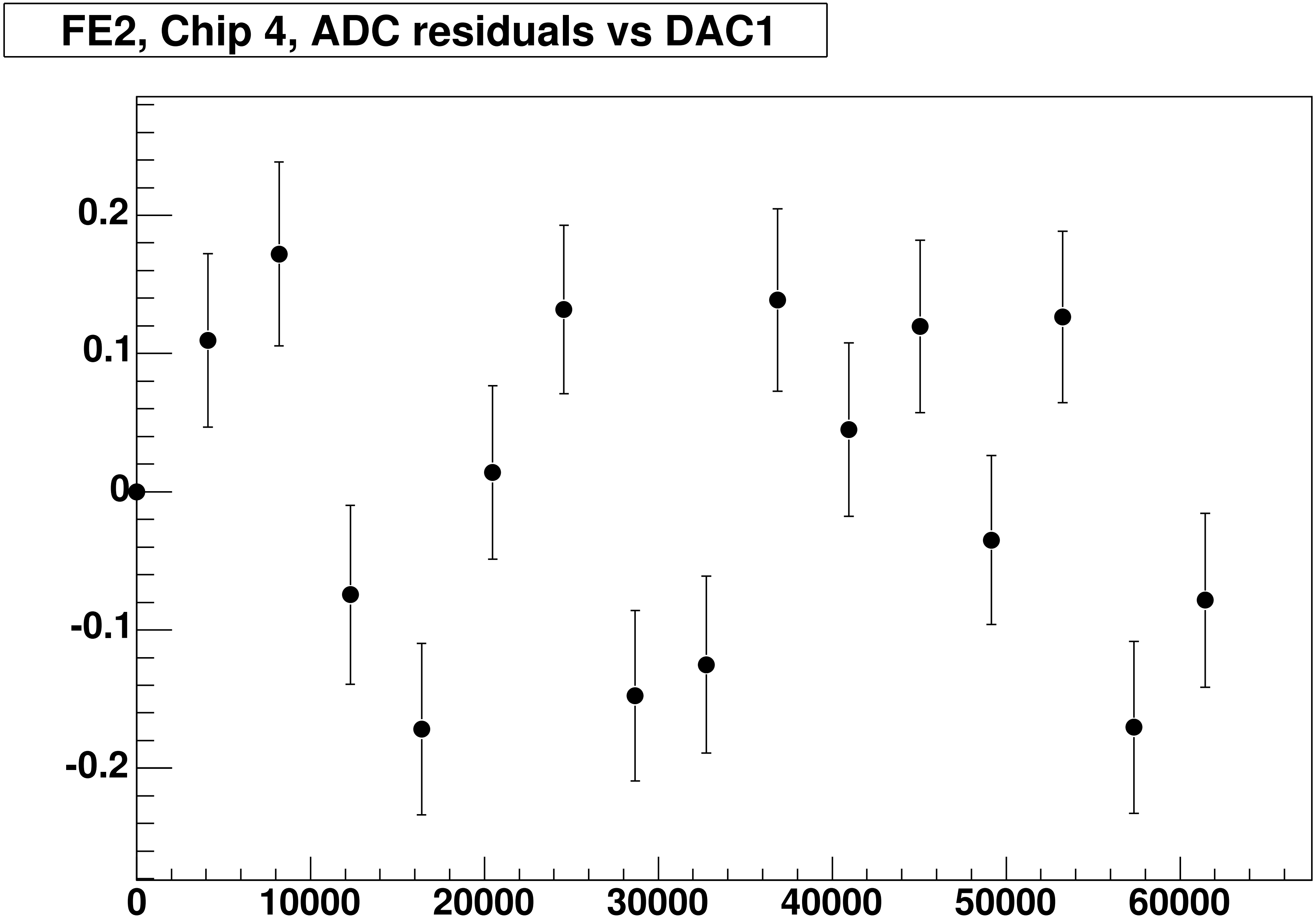
FE2, Chip 4, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

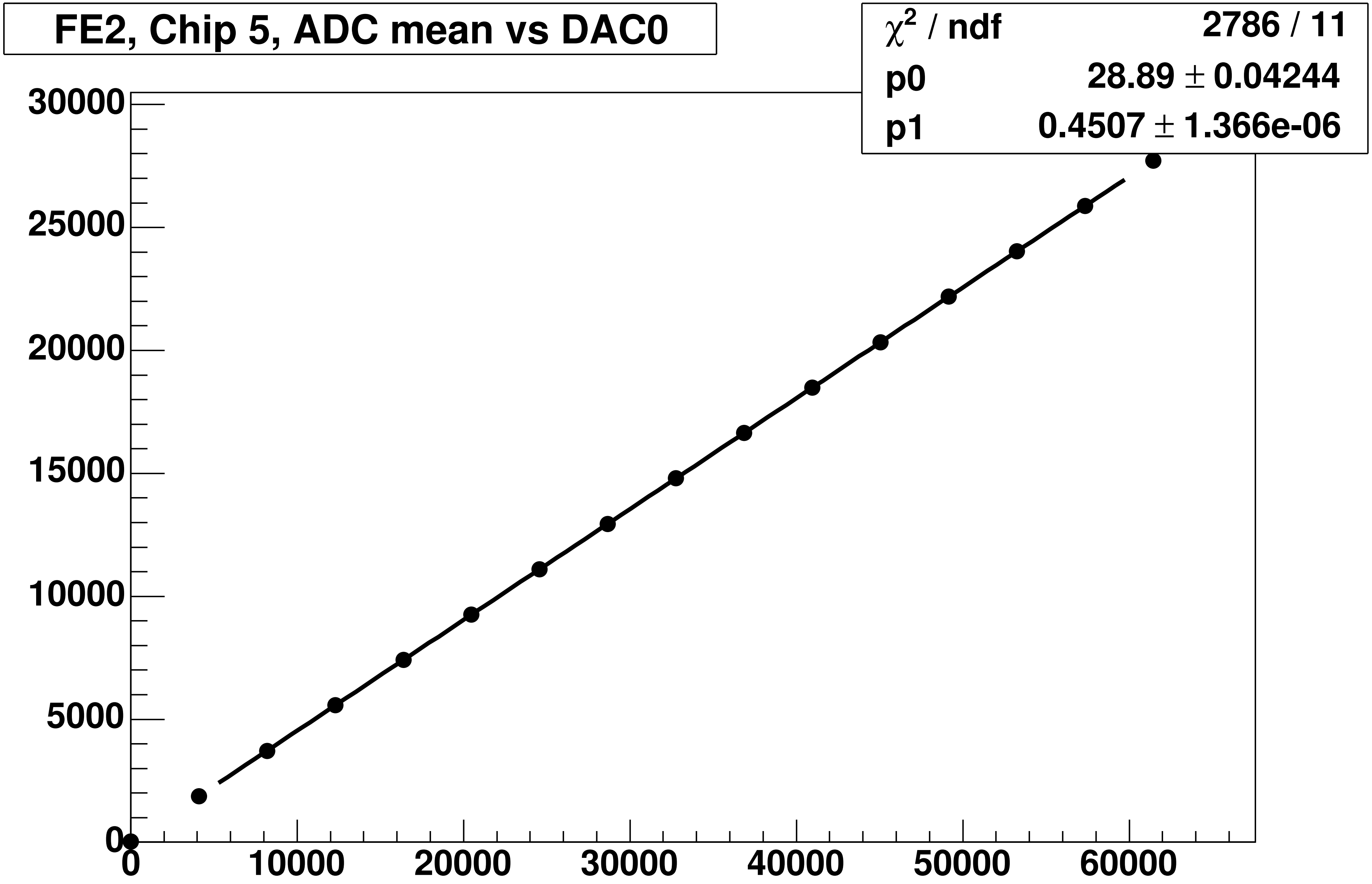


FE2, Chip 4, ADC mean vs DAC1
χ² / ndf 50.56 / 11
p0 29.26 ± 0.04173
p1 2.553e-06 ± 1.144e-06
29.6
29.5
29.4
29.3
29.2
29.1
0
10000
20000
30000
40000
50000
60000

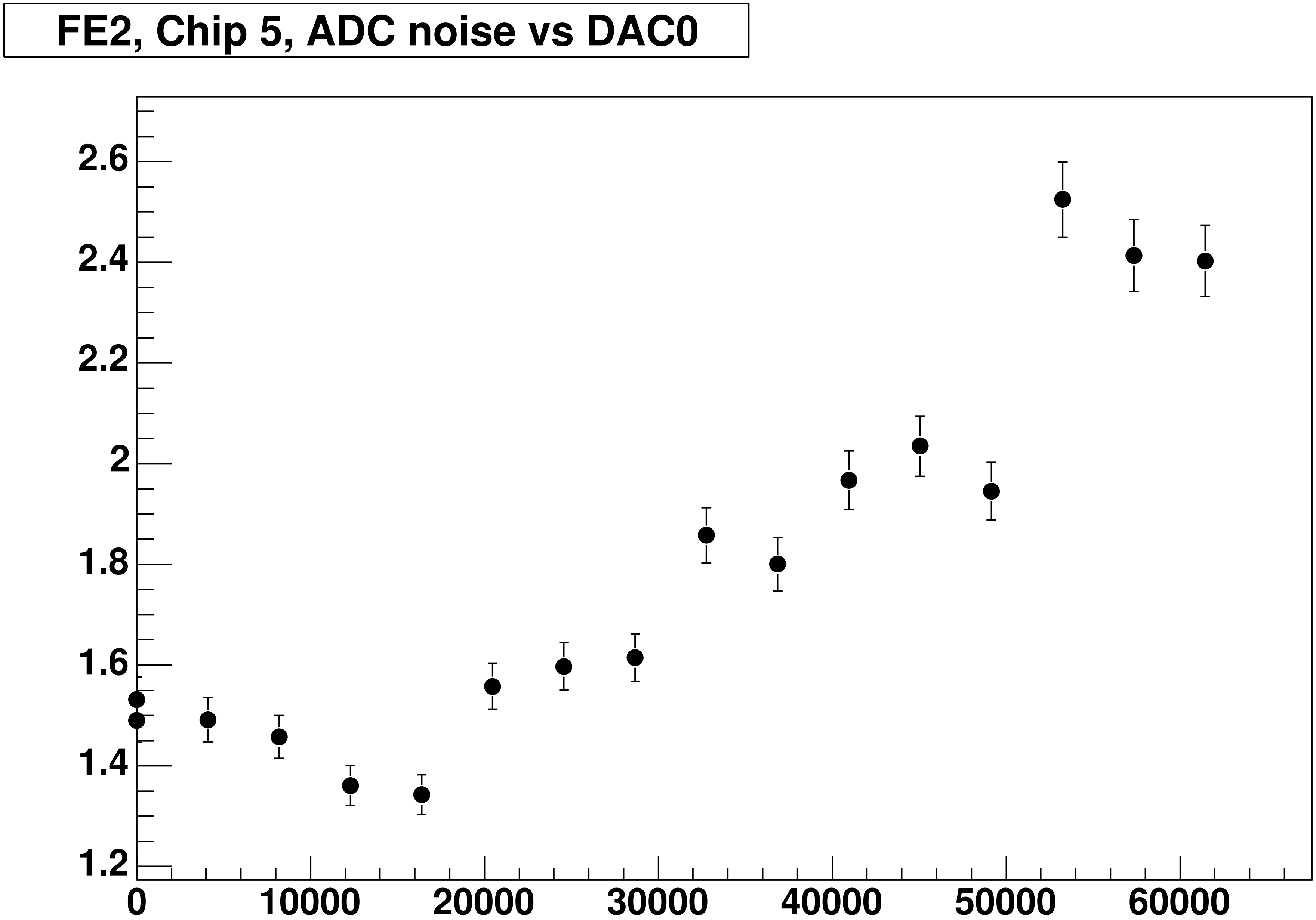

FE2, Chip 4, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

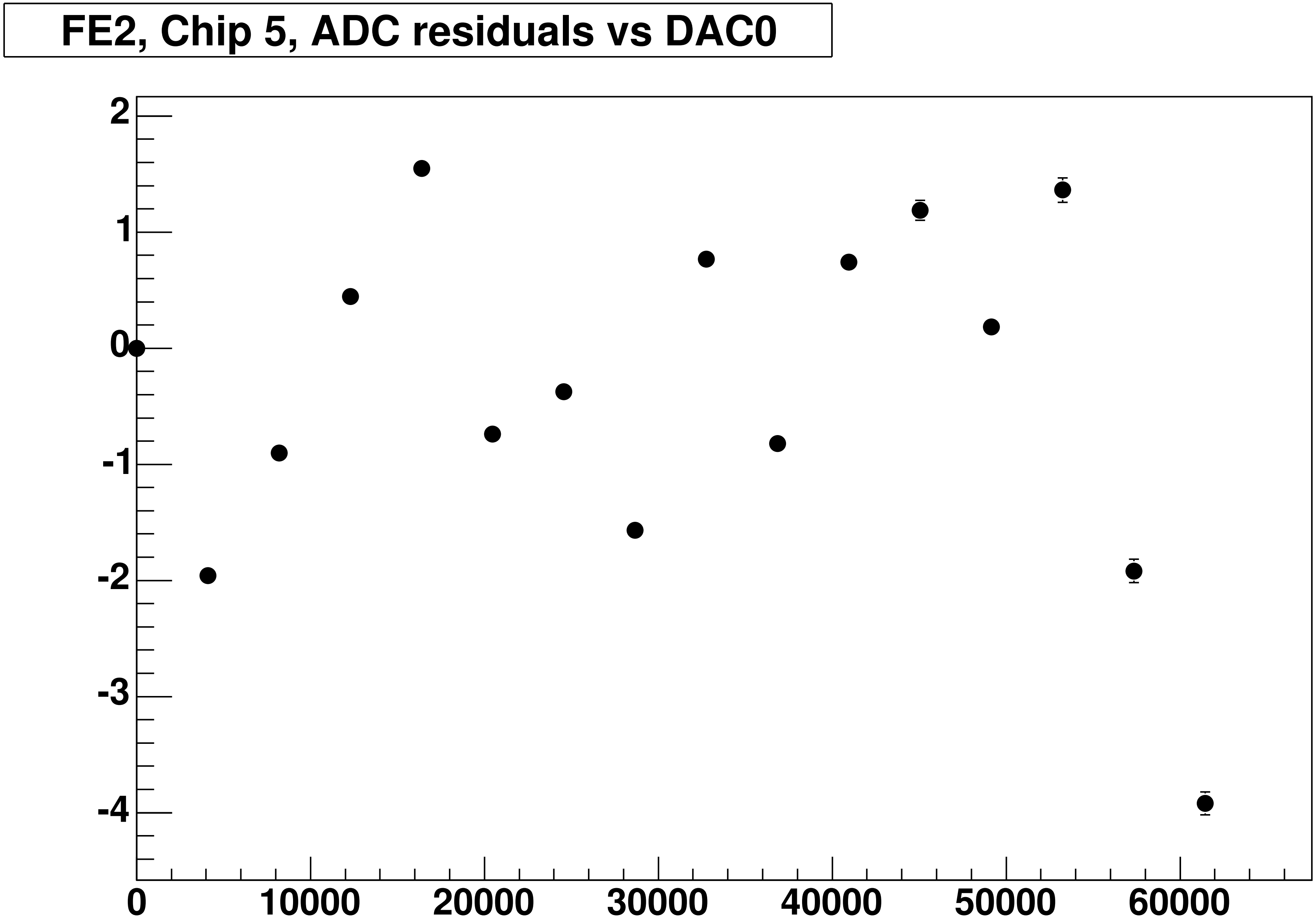


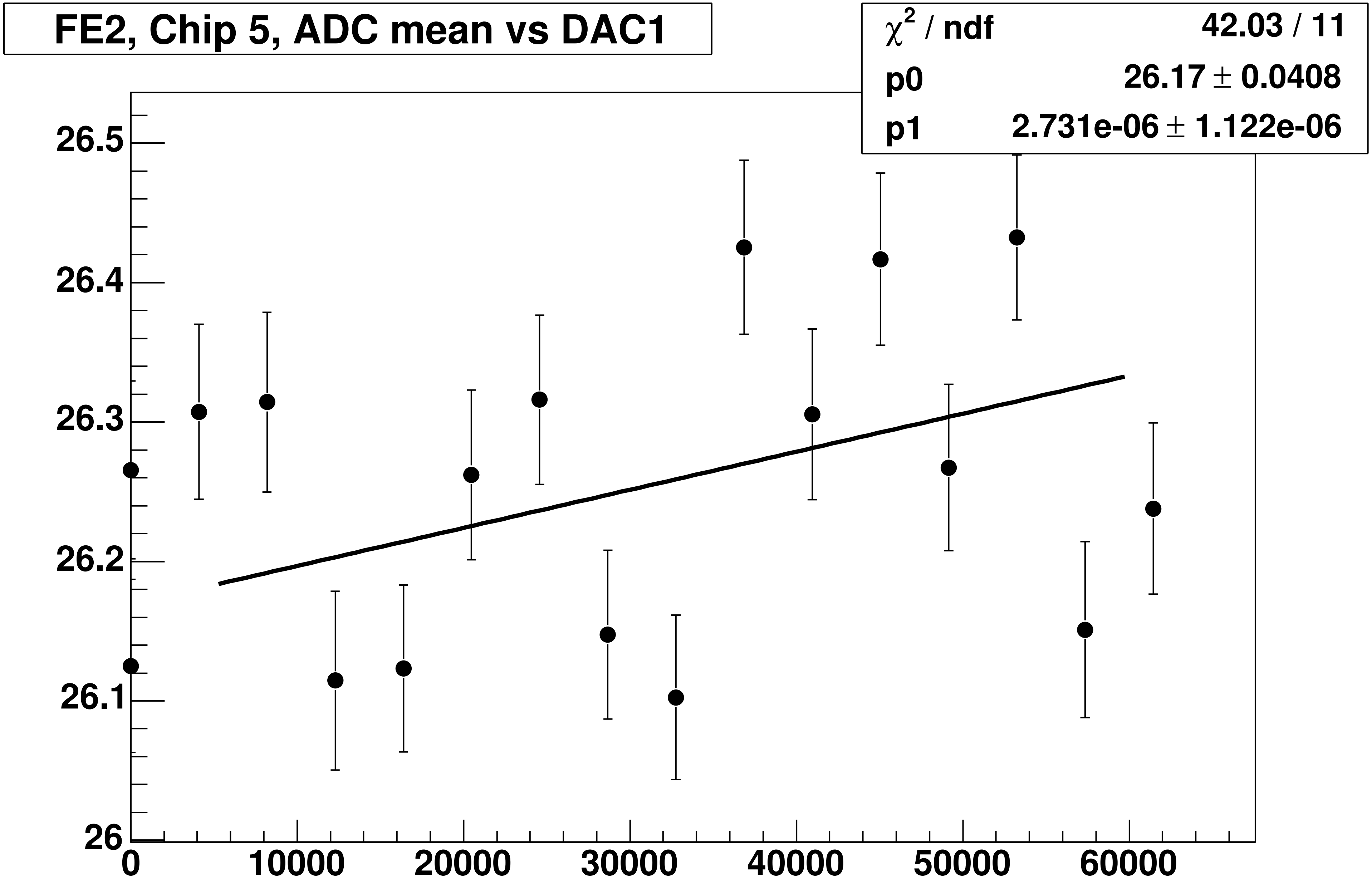
FE2, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



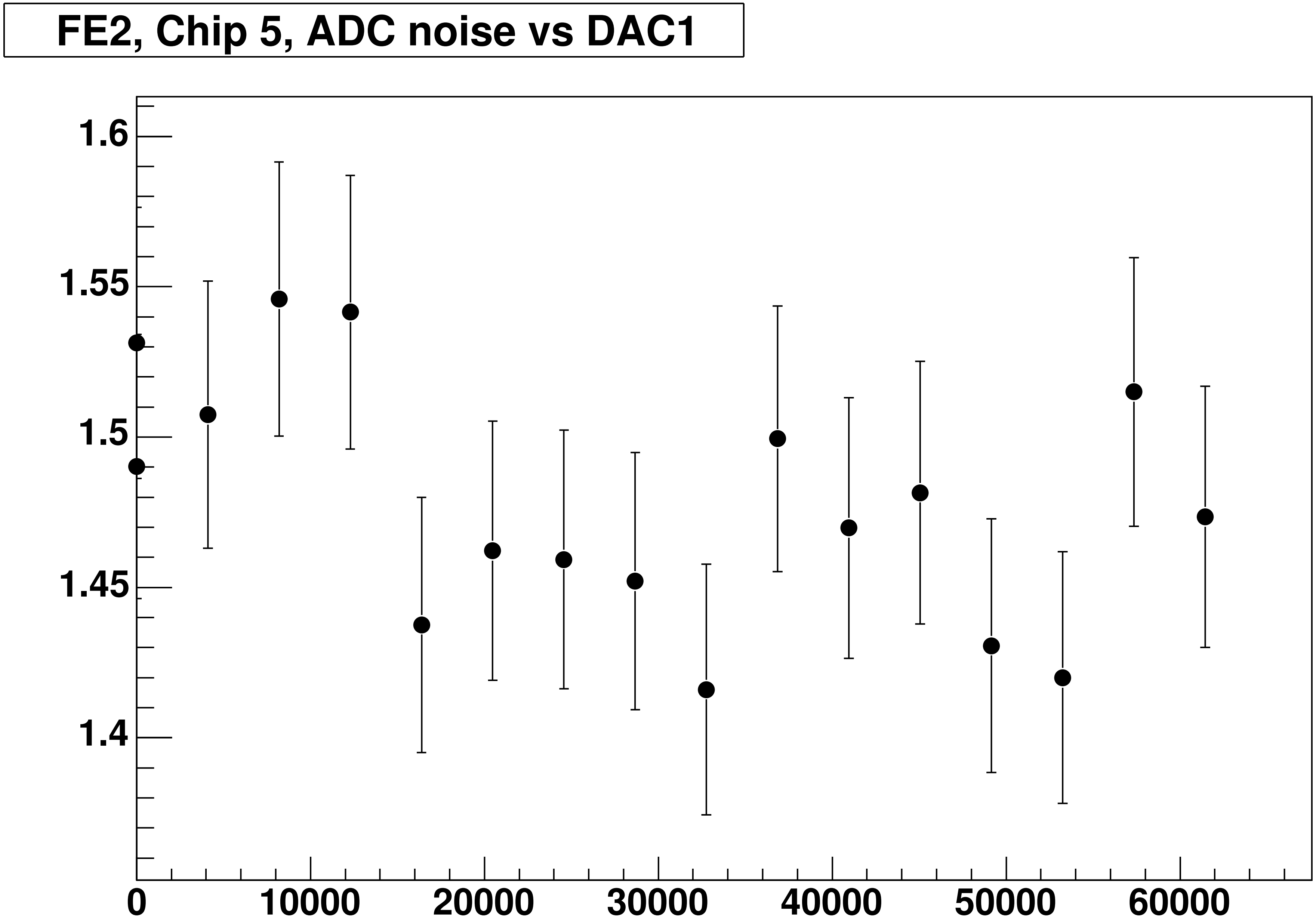
FE2, Chip 5, ADC mean vs DAC0
χ² / ndf 2786 / 11
p0 28.89 ± 0.04244
p1 0.4507 ± 1.366e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

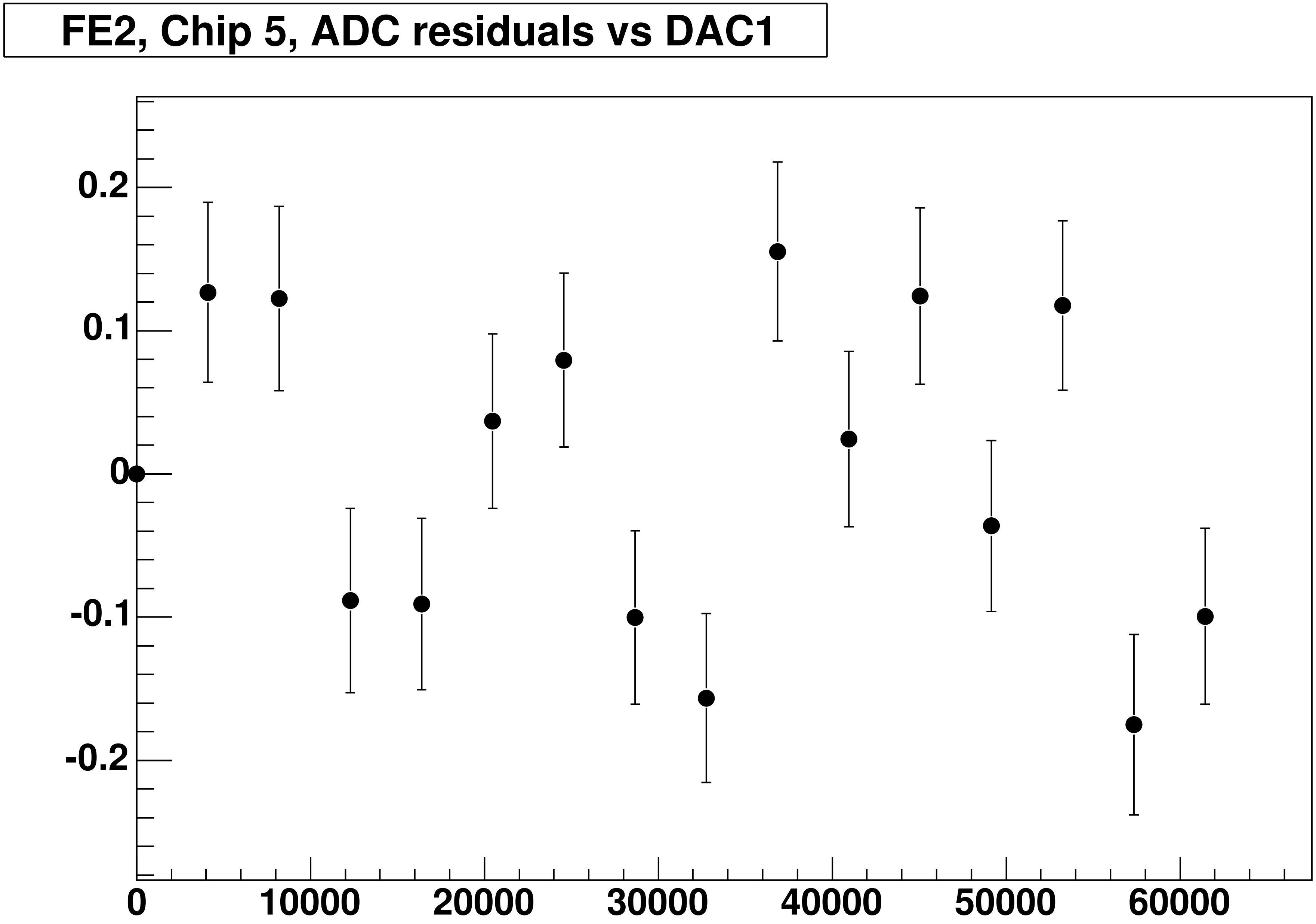

FE2, Chip 5, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

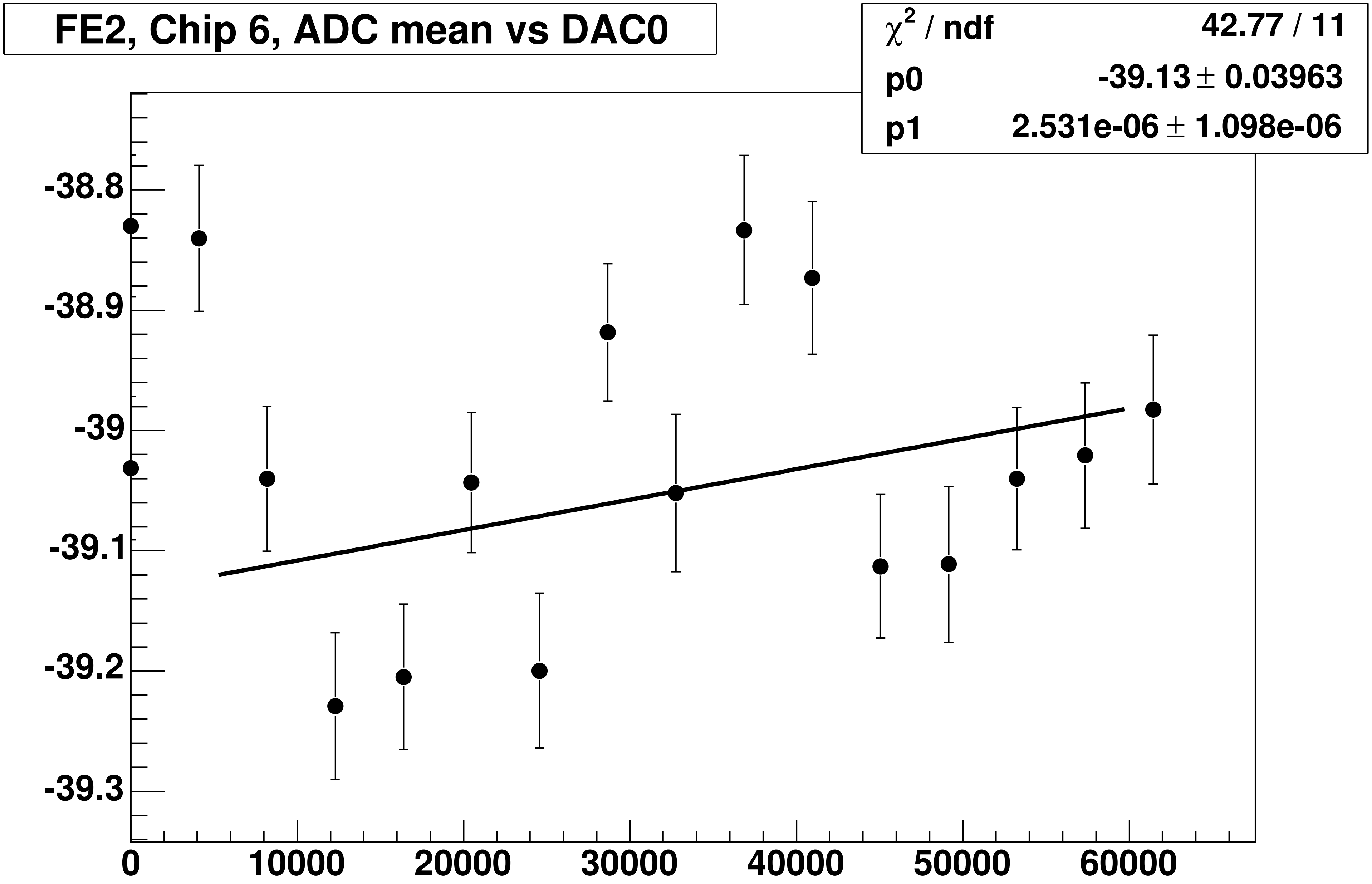

FE2, Chip 5, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



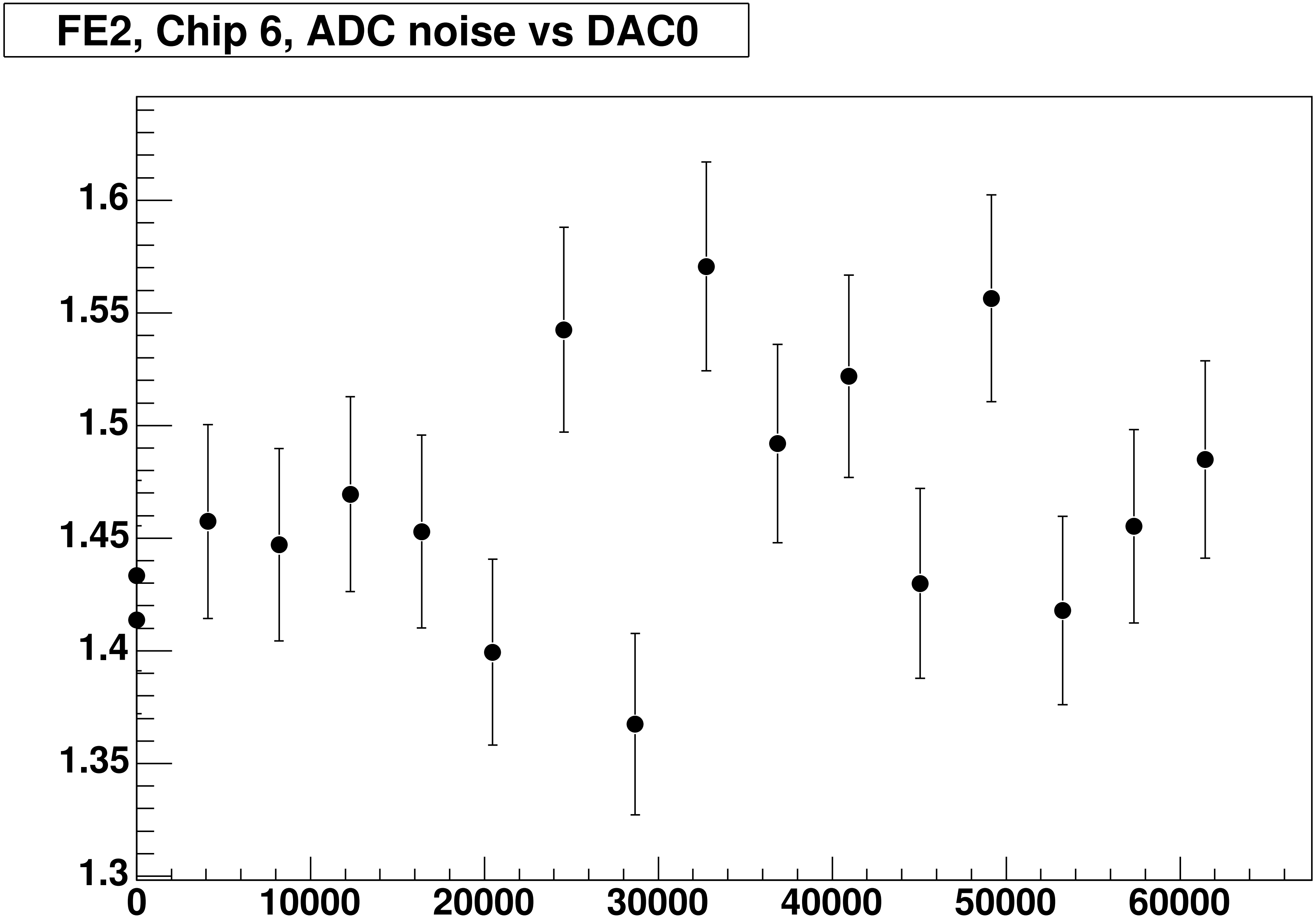
FE2, Chip 5, ADC mean vs DAC1
χ^2 / ndf 42.03 / 11
p0 26.17 ± 0.0408
p1 2.731e-06 ± 1.122e-06
26.5
26.4
26.3
26.2
26.1
26
0
10000
20000
30000
40000
50000
60000


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

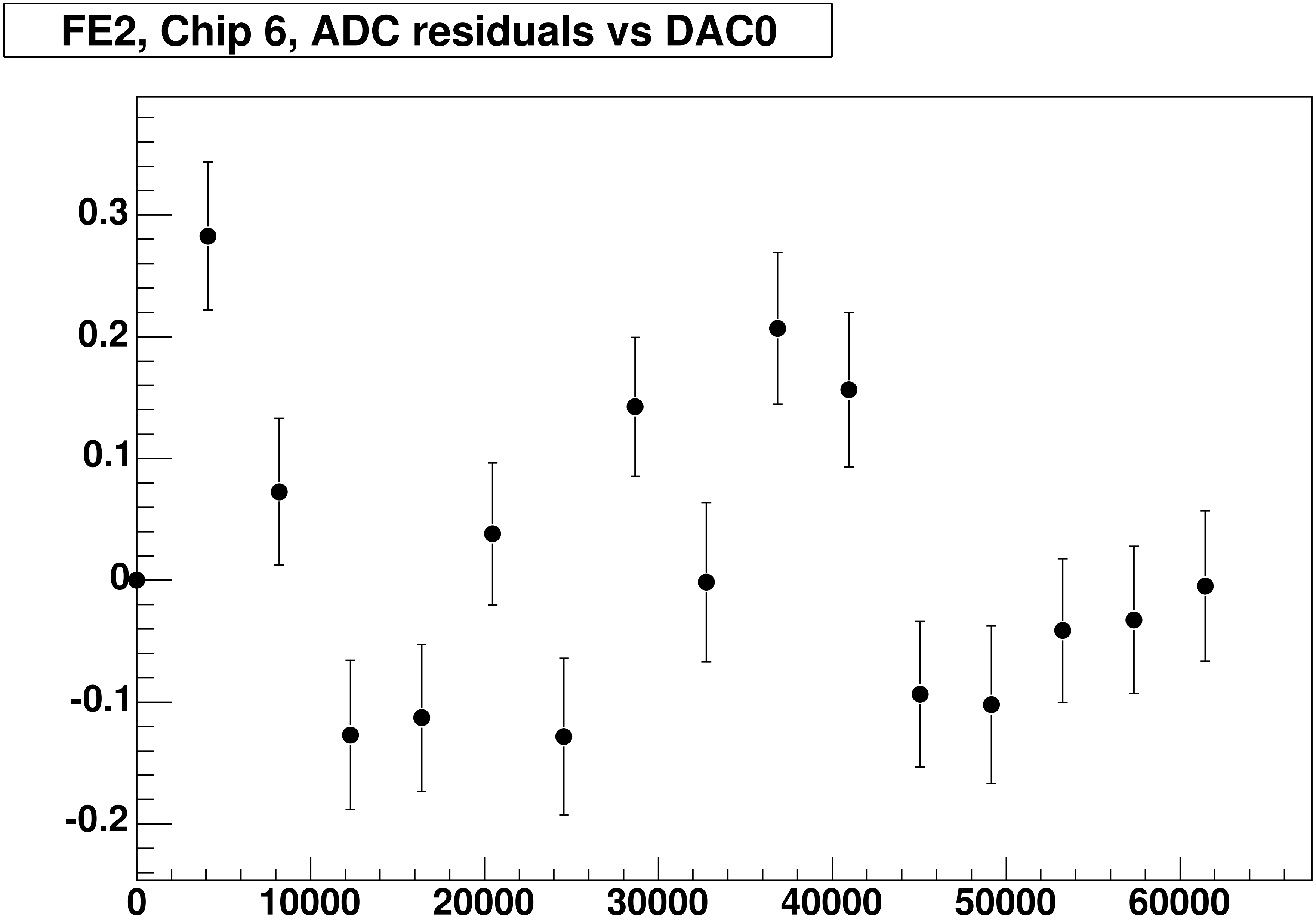

FE2, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

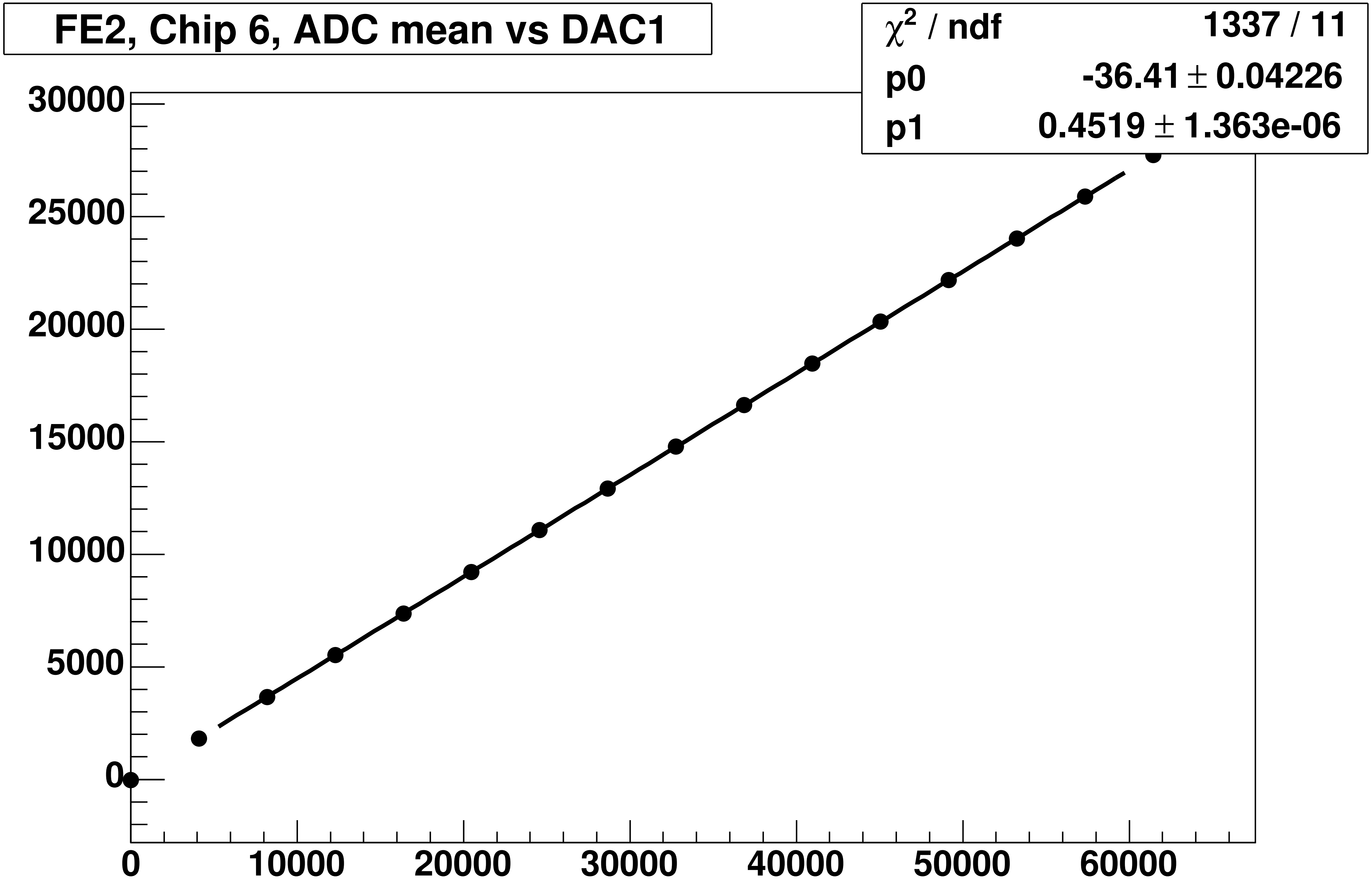


FE2, Chip 6, ADC mean vs DAC0
χ² / ndf 42.77 / 11
p0 -39.13 ± 0.03963
p1 2.531e-06 ± 1.098e-06
-38.8
-38.9
-39
-39.1
-39.2
-39.3
0
10000
20000
30000
40000
50000
60000

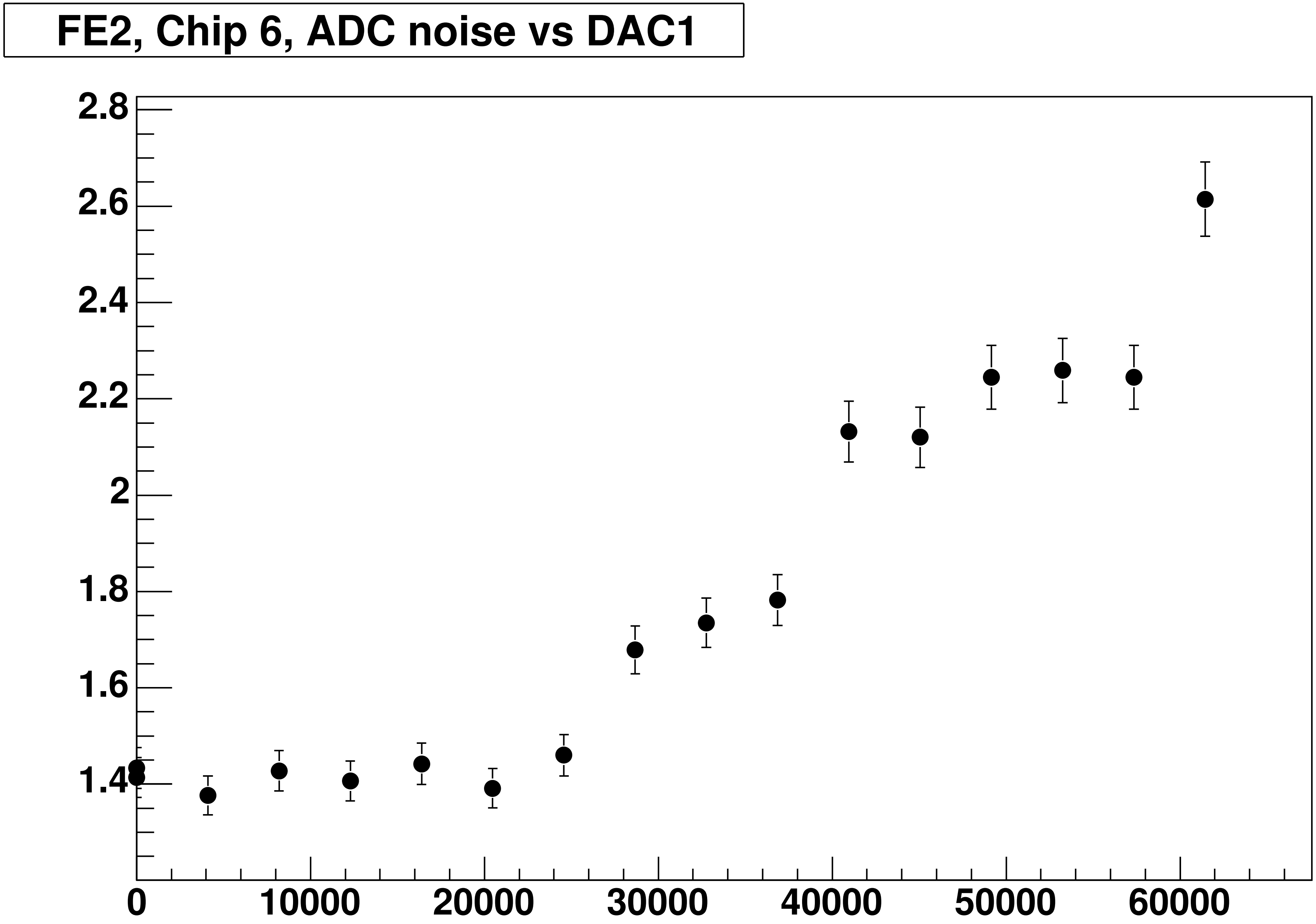


FE2, Chip 6, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

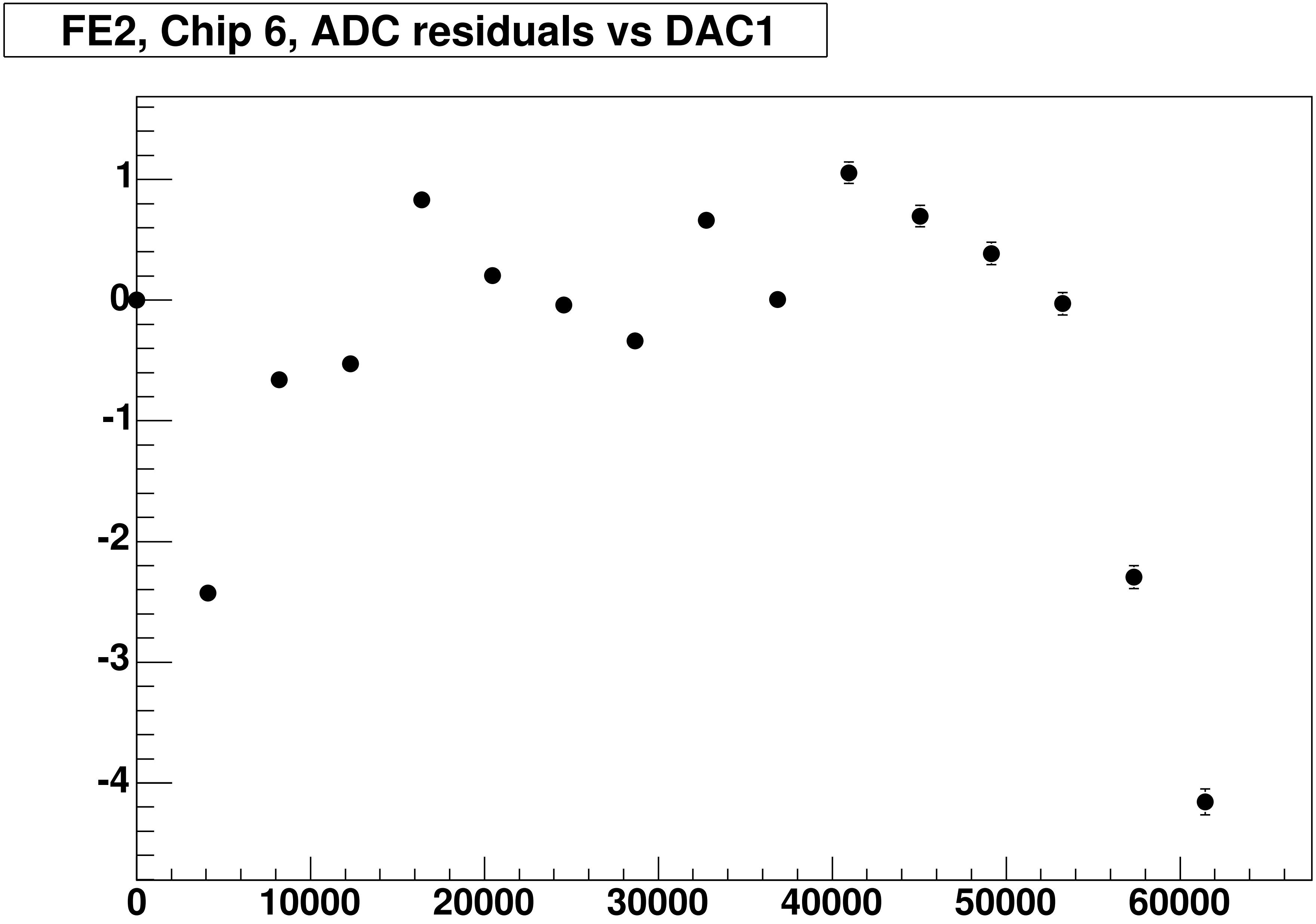

FE2, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

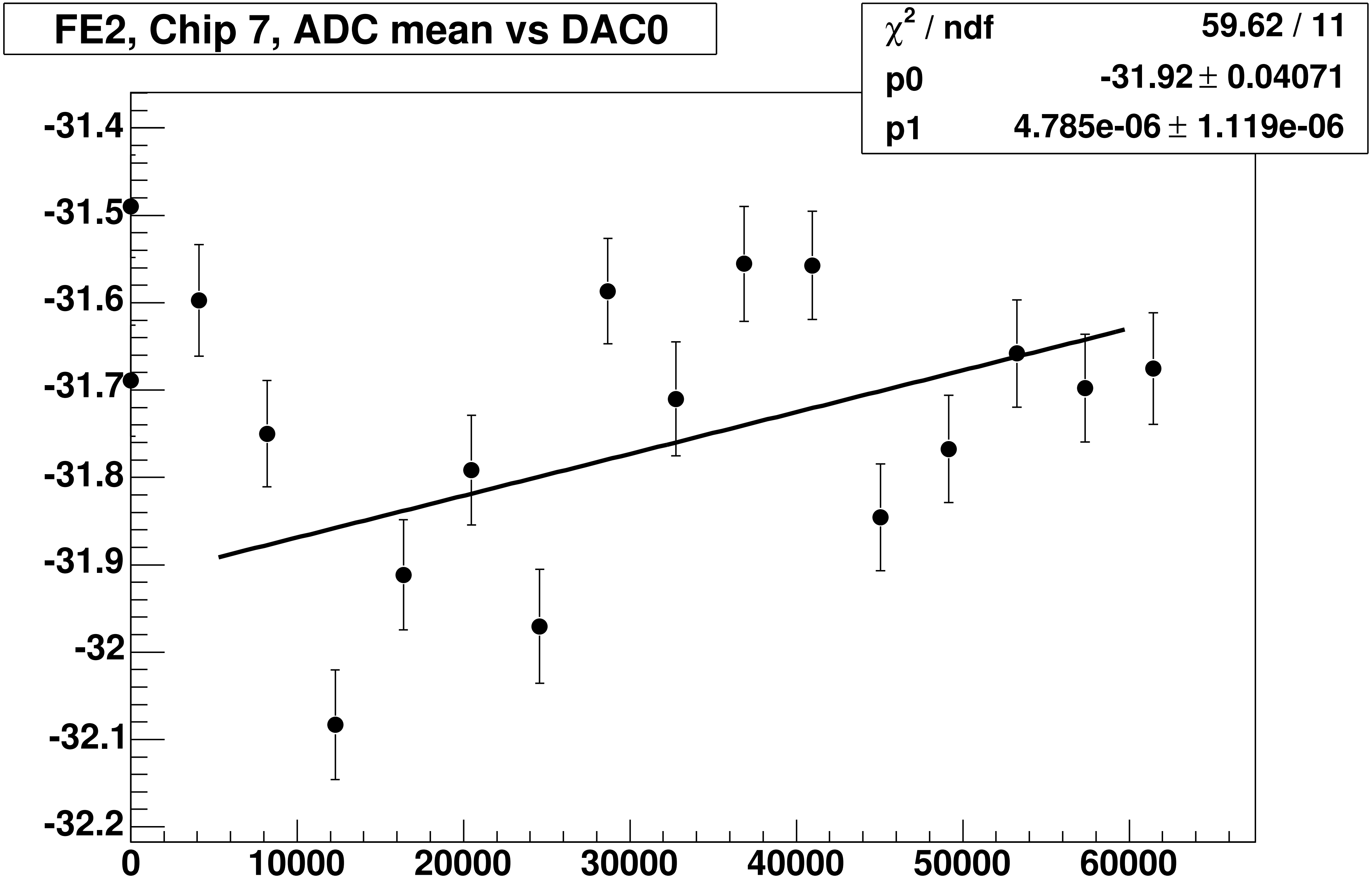


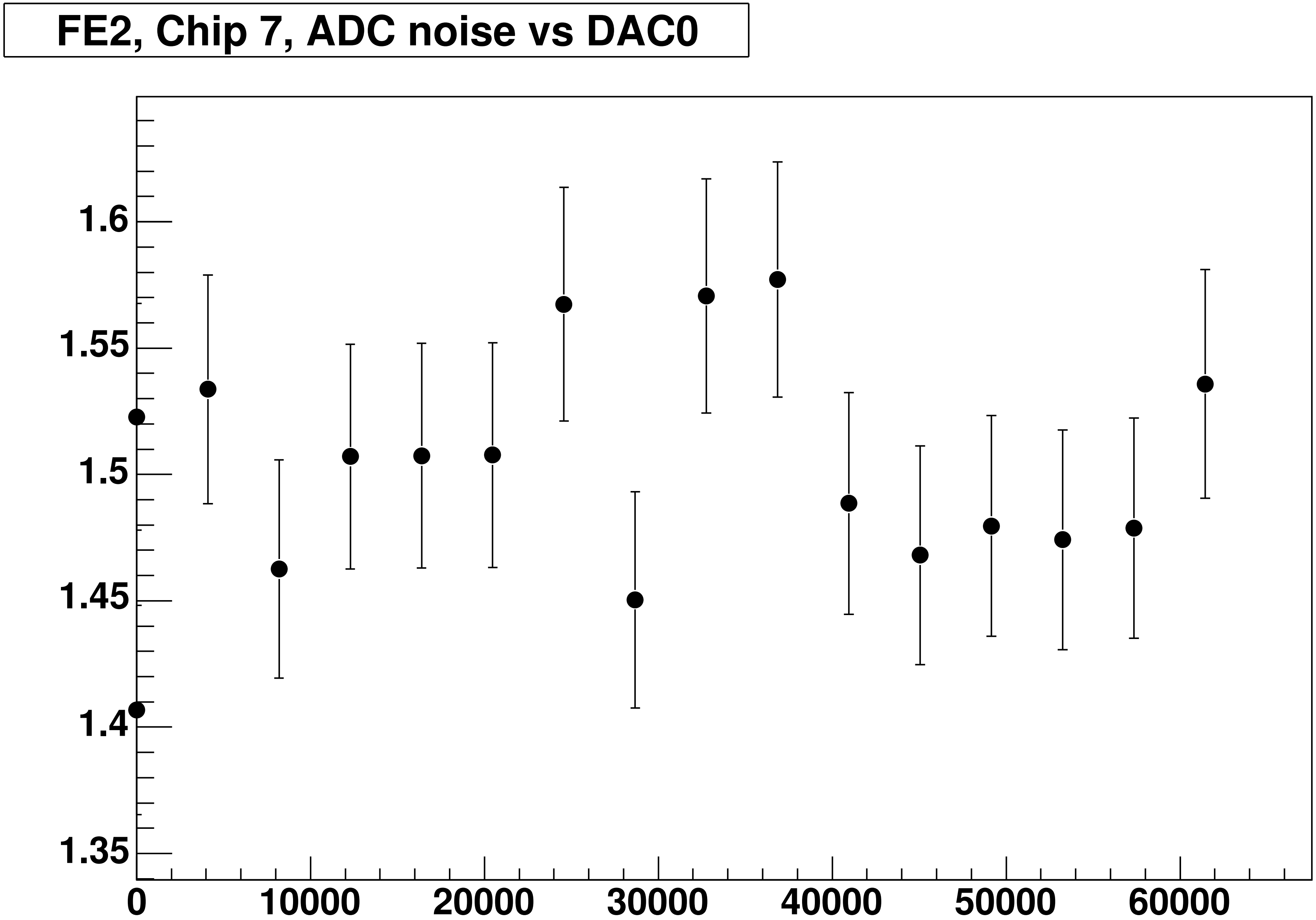
FE2, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1337 / 11
p0 -36.41 ± 0.04226
p1 0.4519 ± 1.363e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

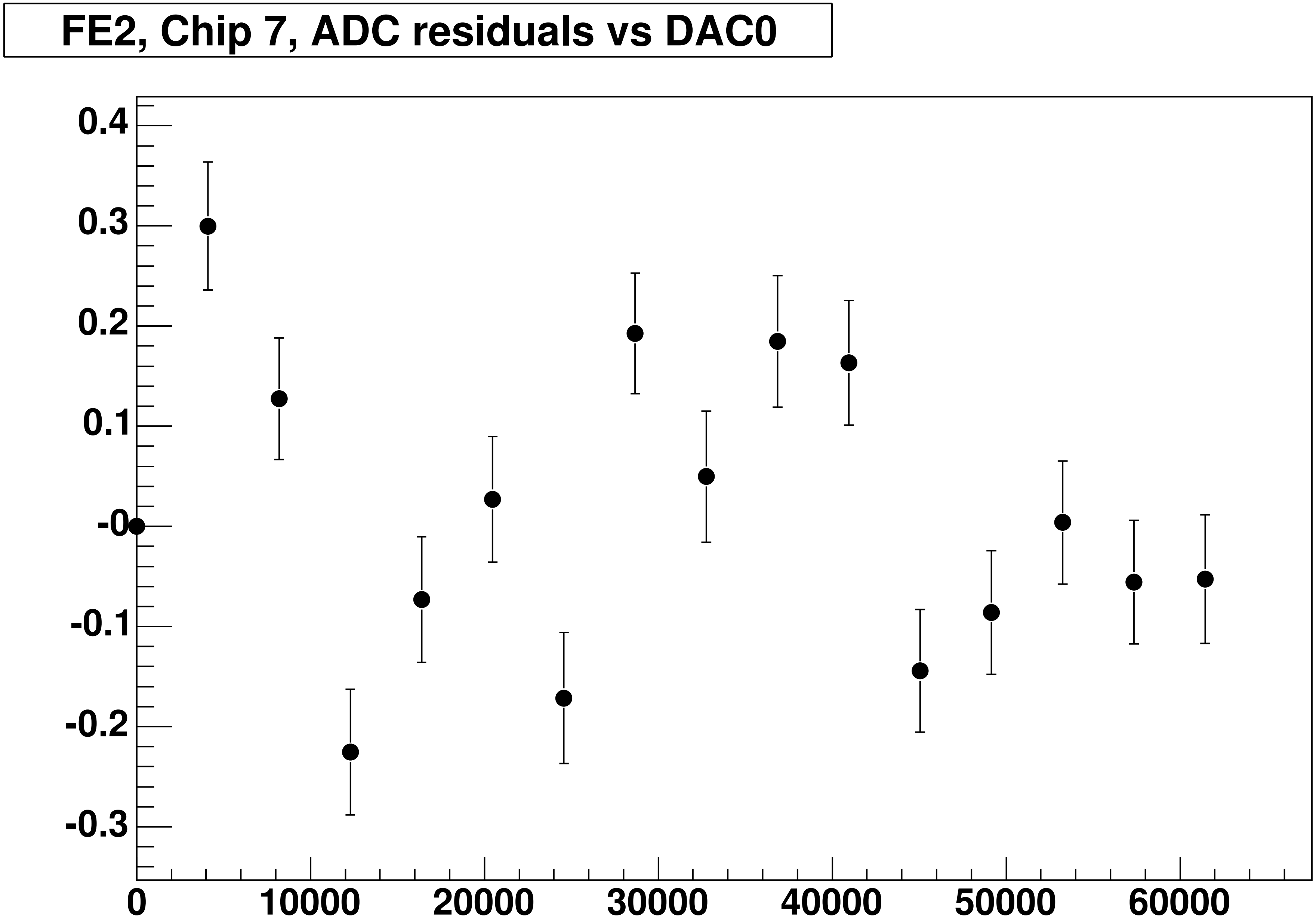


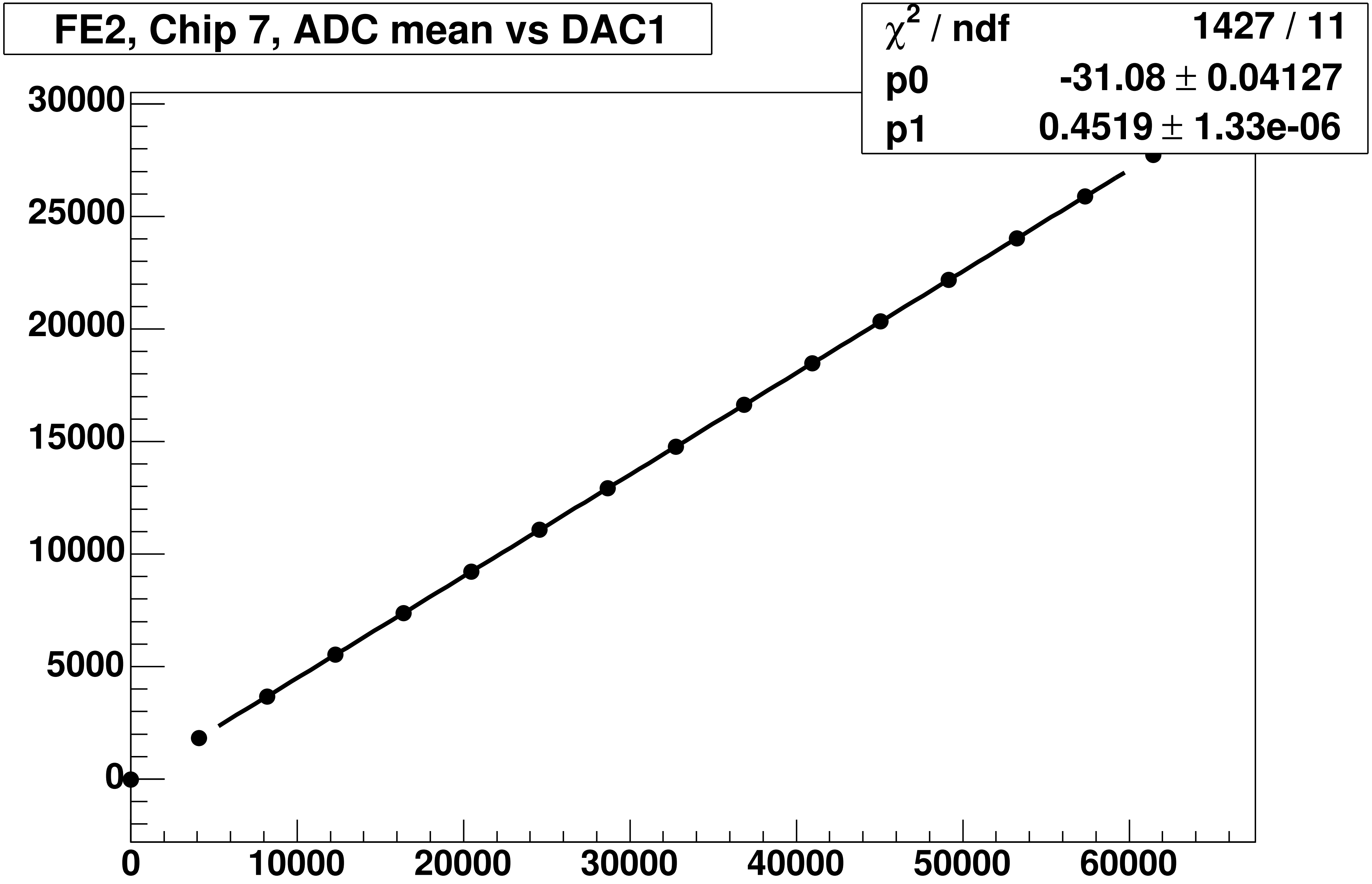
FE2, Chip 6, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

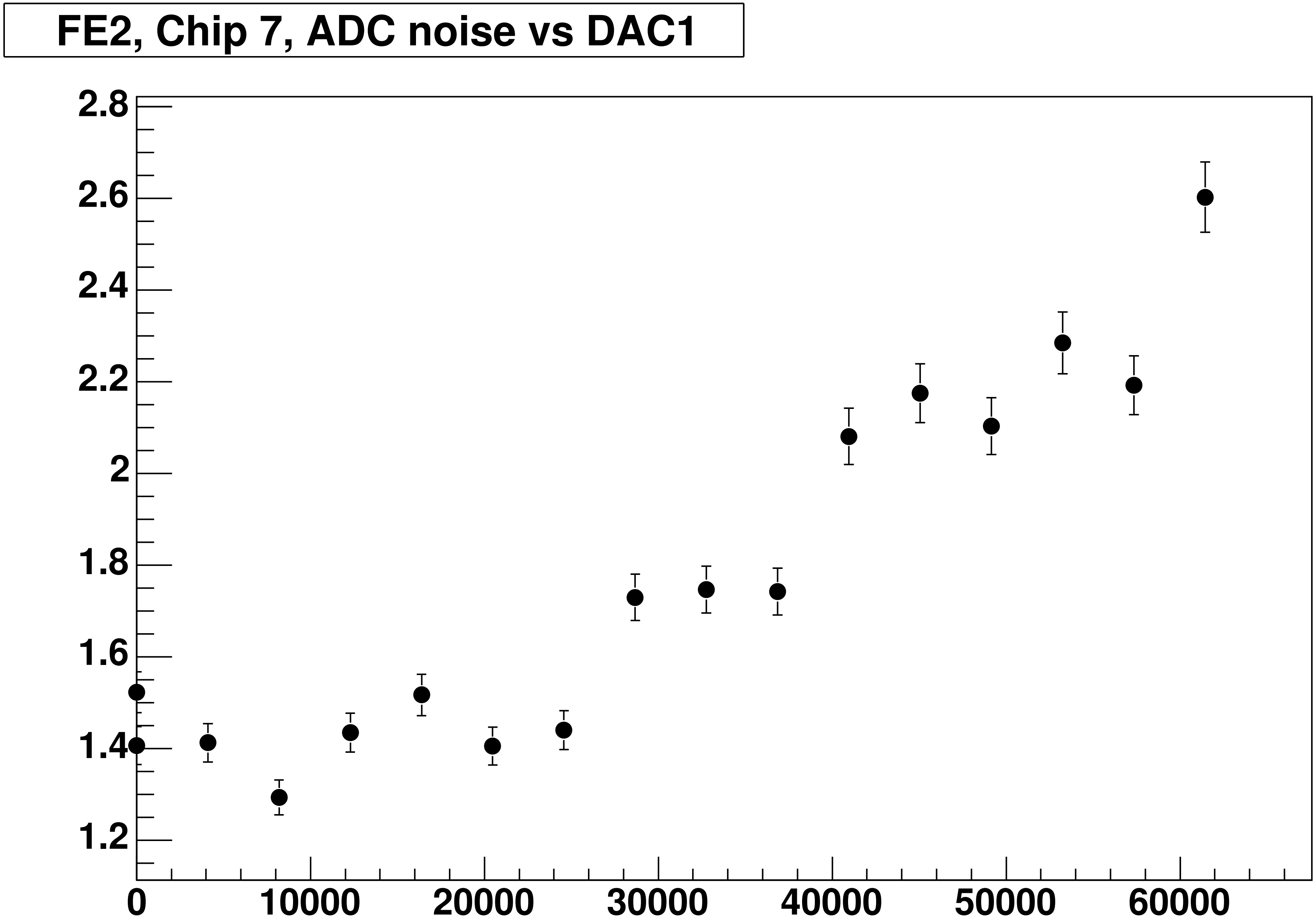

FE2, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

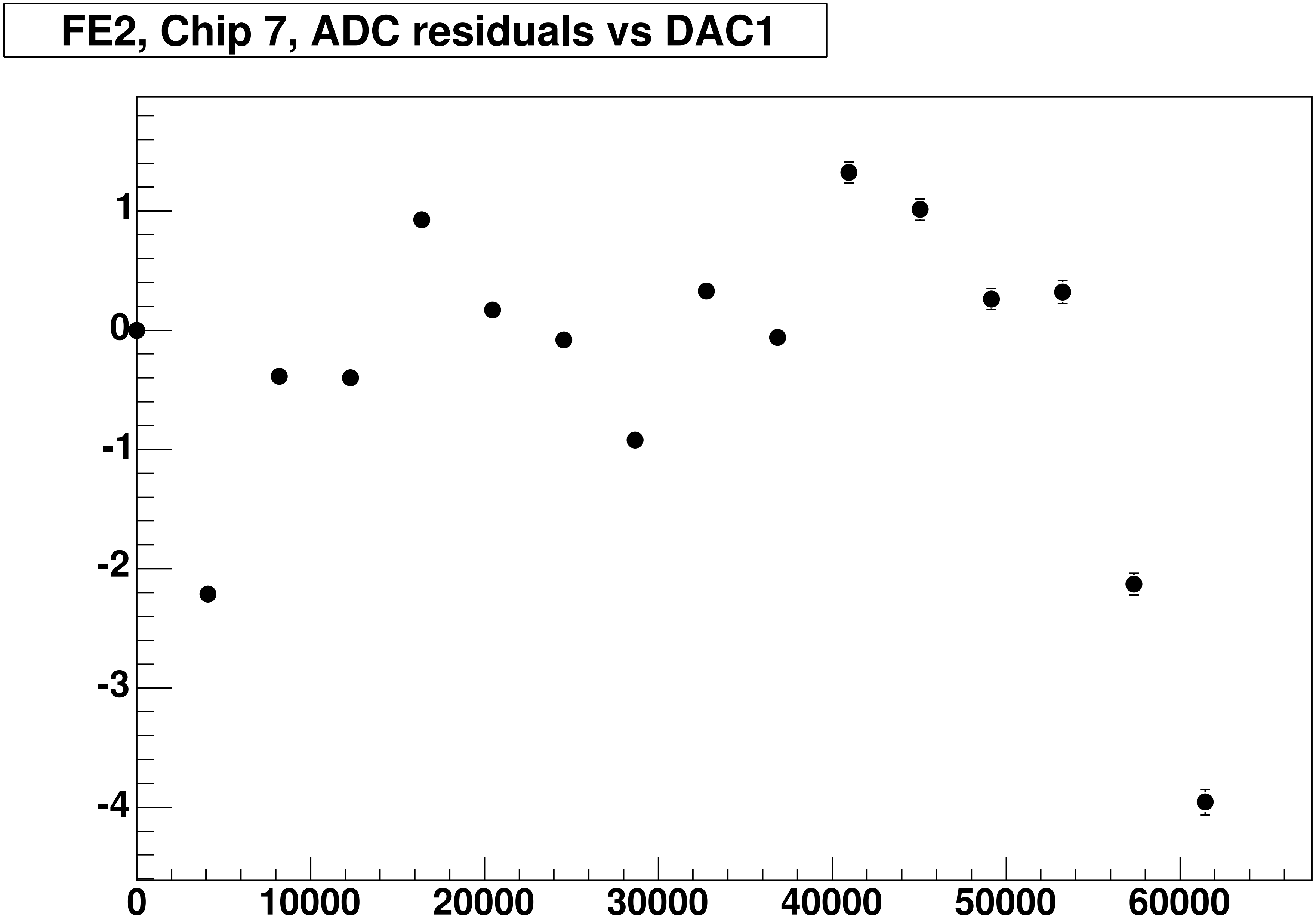

FE2, Chip 7, ADC mean vs DAC0
χ^2 / ndf 59.62 / 11
p0 -31.92 ± 0.04071
p1 4.785e-06 ± 1.119e-06
-31.4
-31.5
-31.6
-31.7
-31.8
-31.9
-32
-32.1
-32.2
0
10000
20000
30000
40000
50000
60000

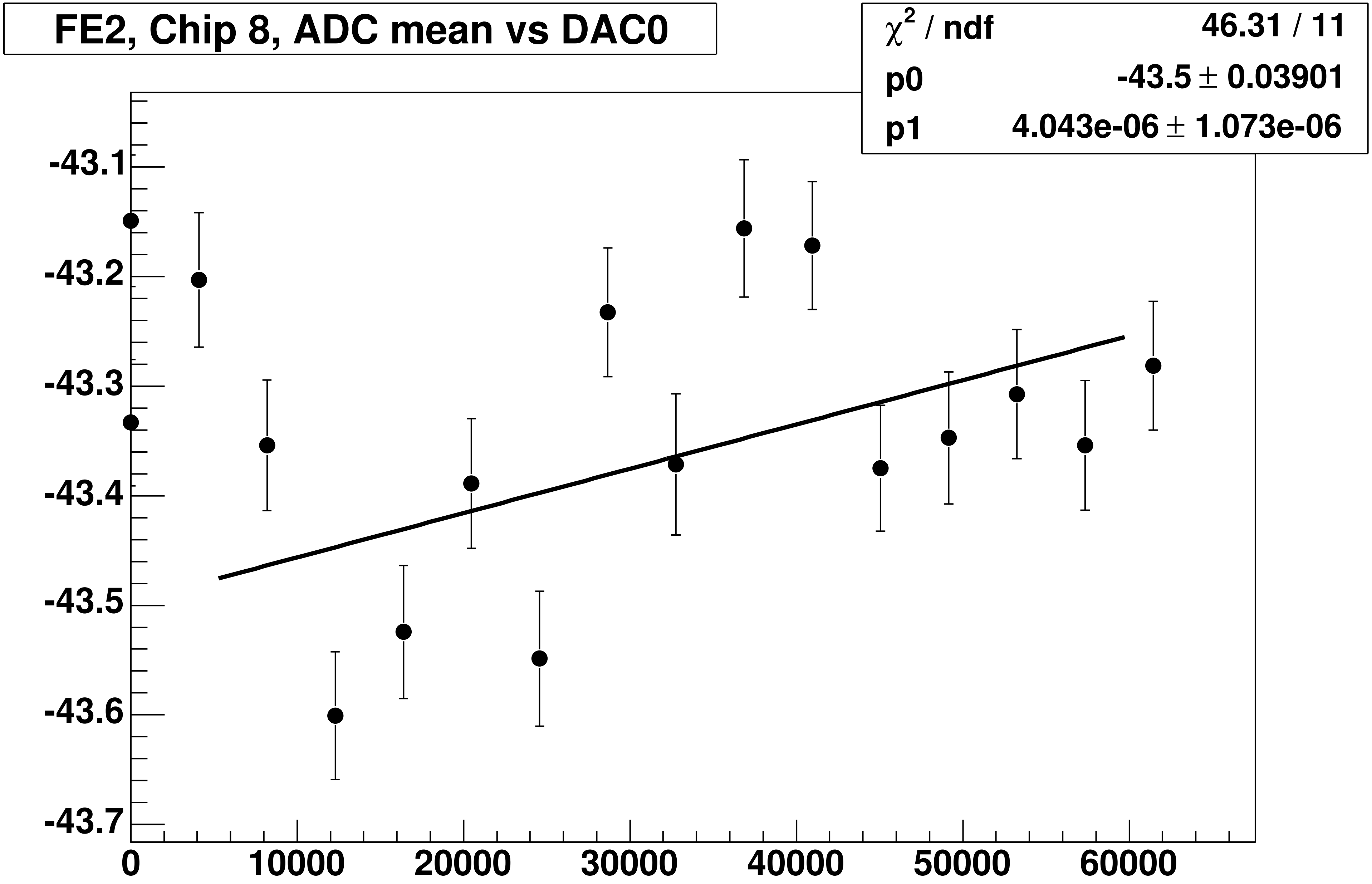

FE2, Chip 7, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

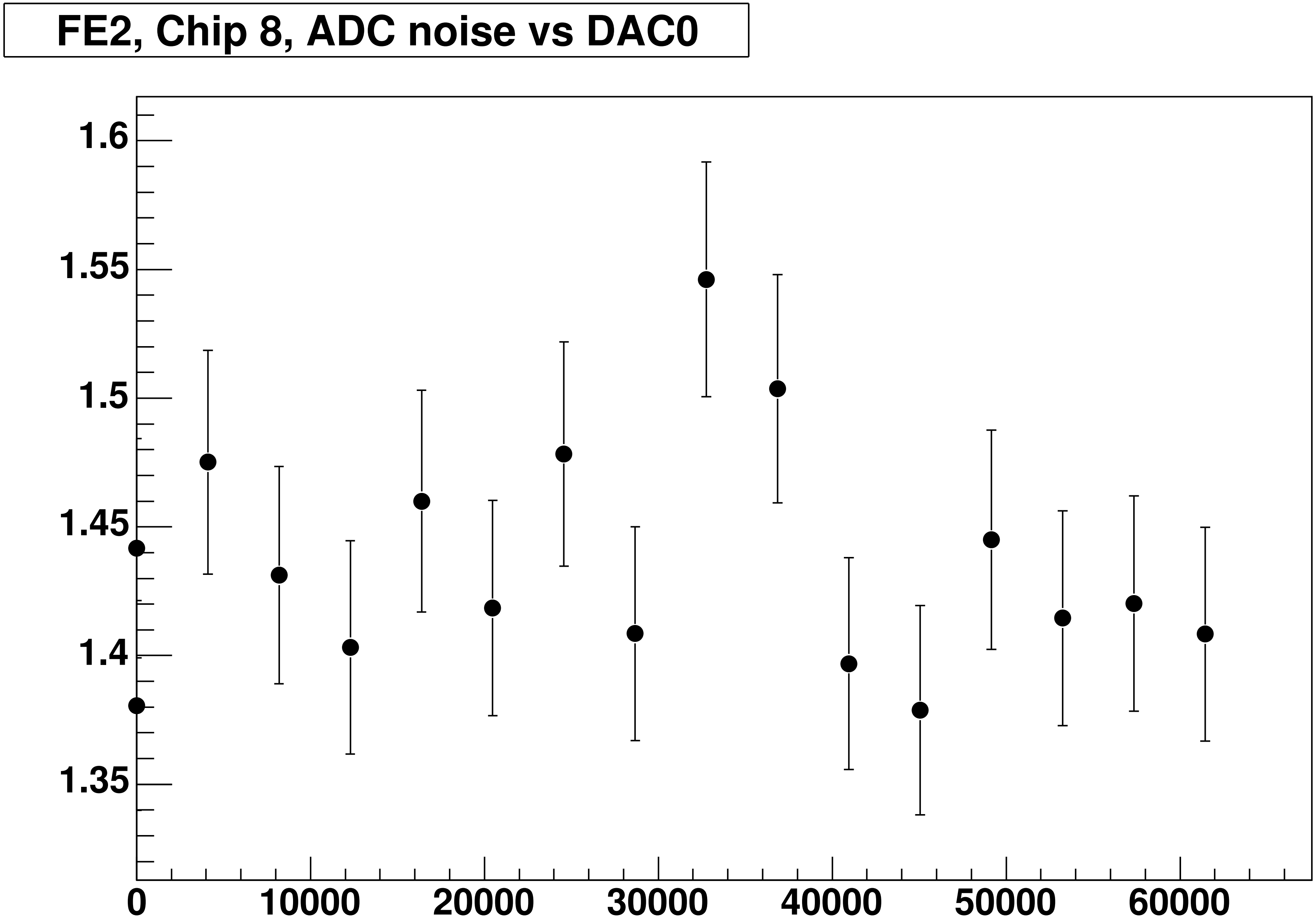

FE2, Chip 7, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

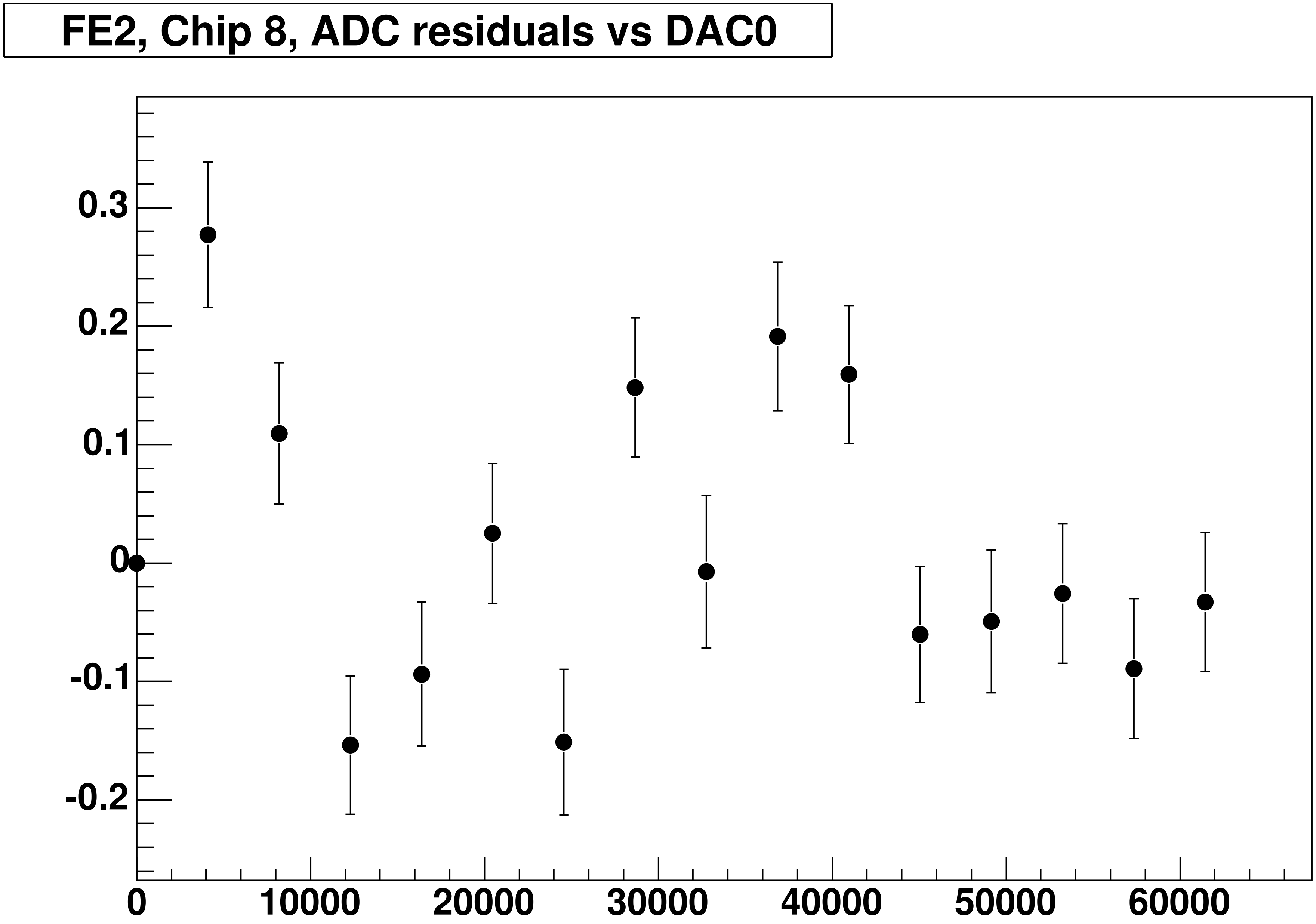

FE2, Chip 7, ADC mean vs DAC1
χ² / ndf 1427 / 11
p0 -31.08 ± 0.04127
p1 0.4519 ± 1.33e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 7, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

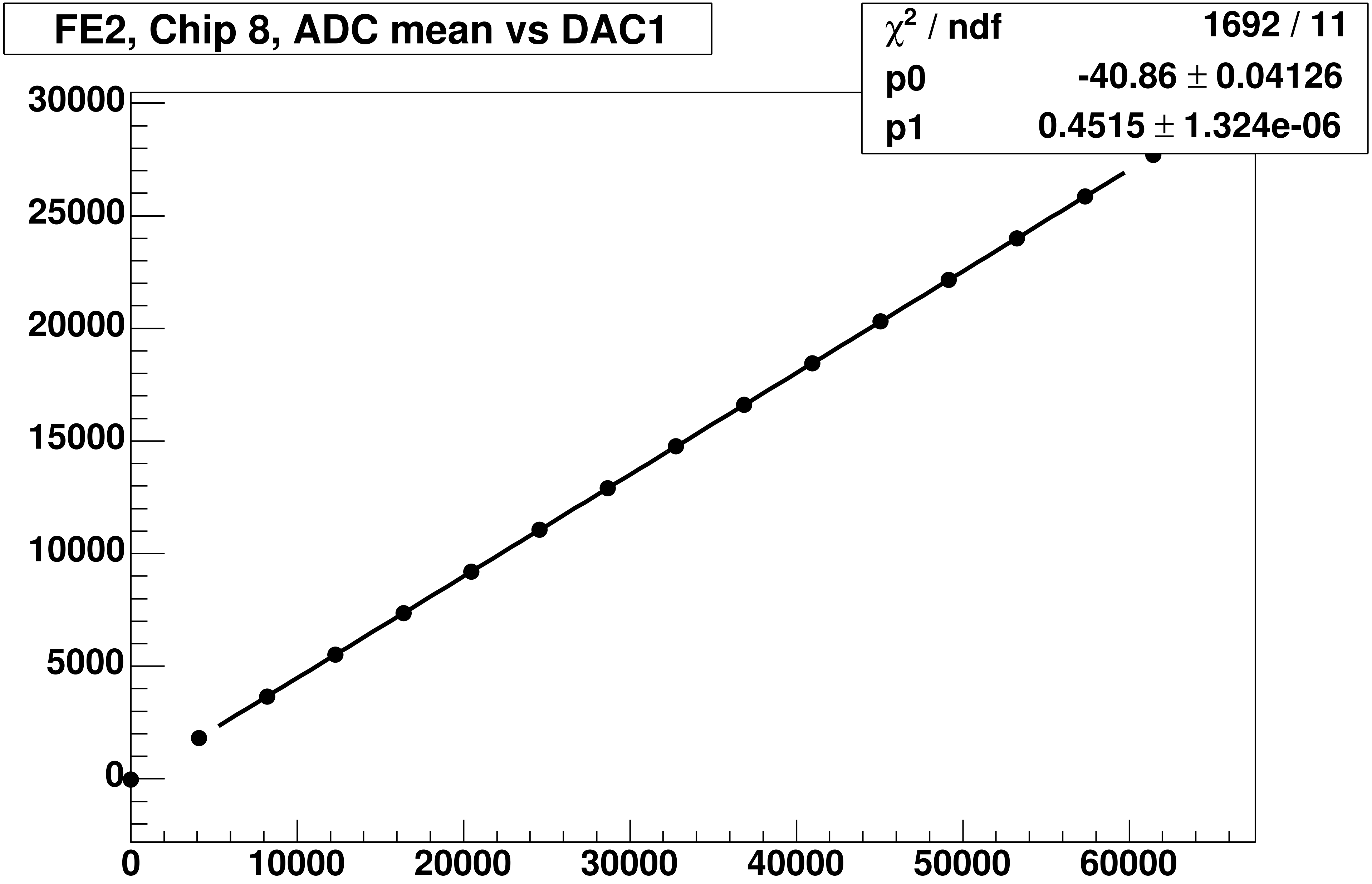

FE2, Chip 7, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000


FE2, Chip 8, ADC mean vs DAC0
χ^2 / ndf 46.31 / 11
p0 -43.5 ± 0.03901
p1 4.043e-06 ± 1.073e-06
-43.1
-43.2
-43.3
-43.4
-43.5
-43.6
-43.7
0
10000
20000
30000
40000
50000
60000

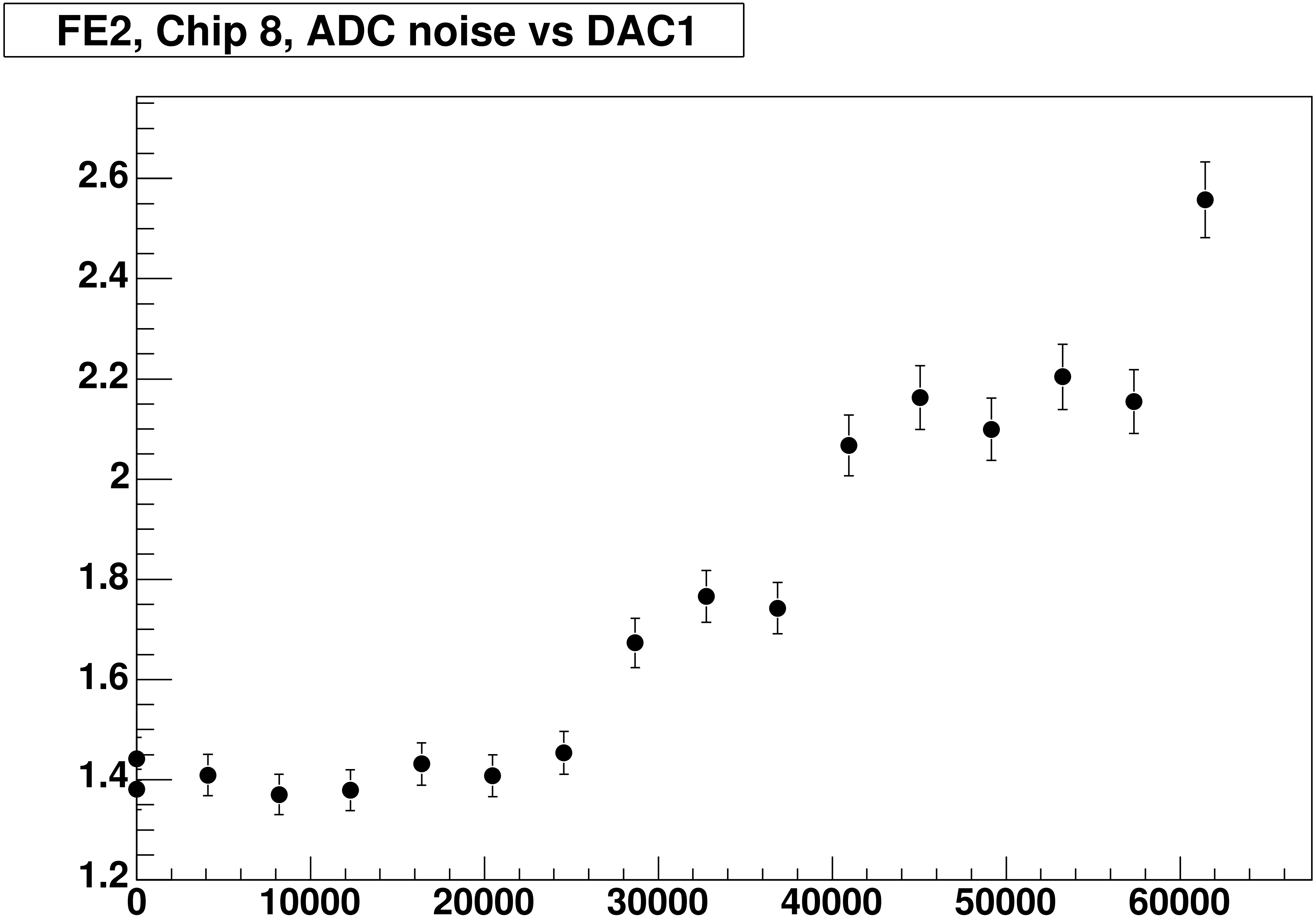

FE2, Chip 8, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

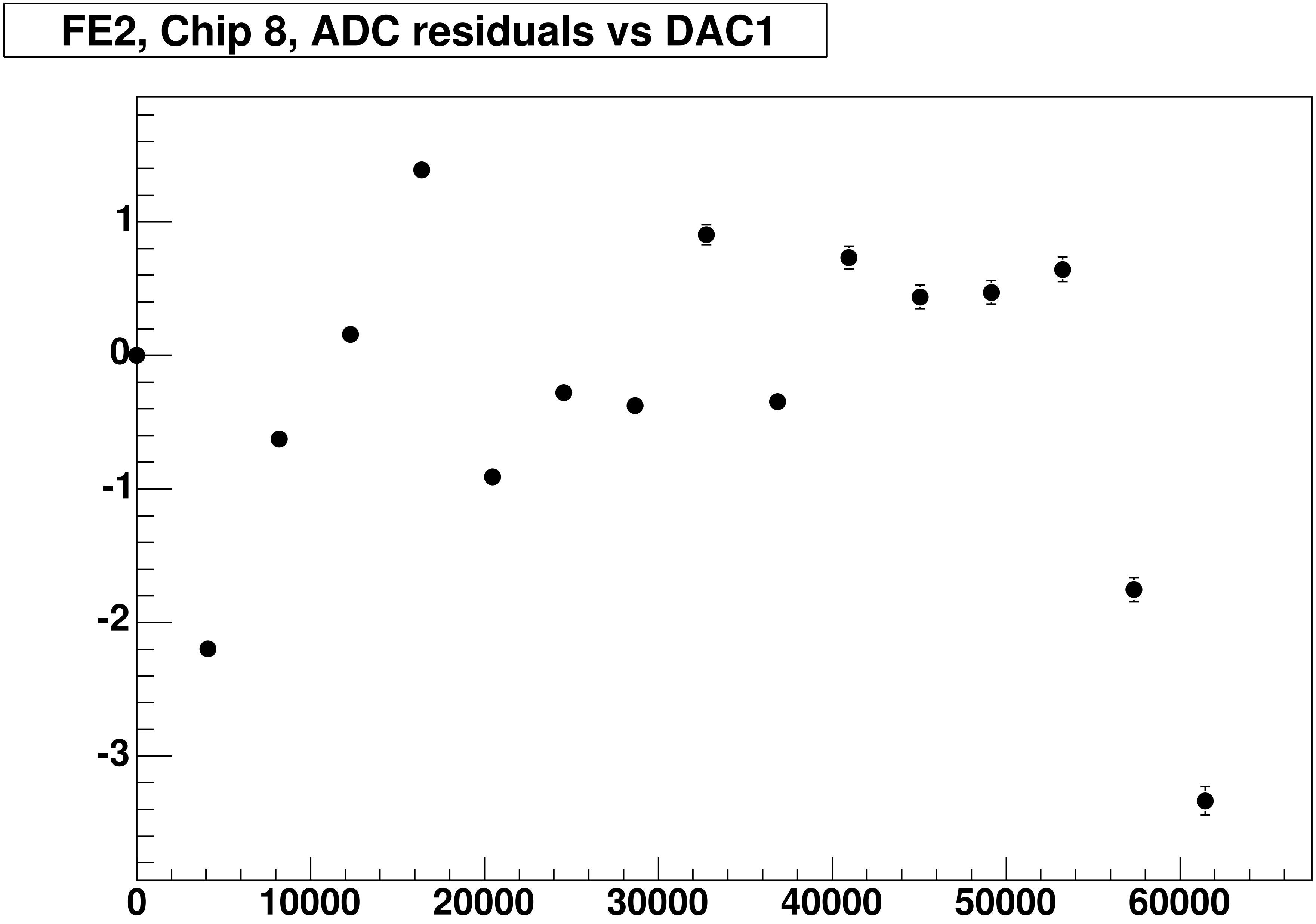


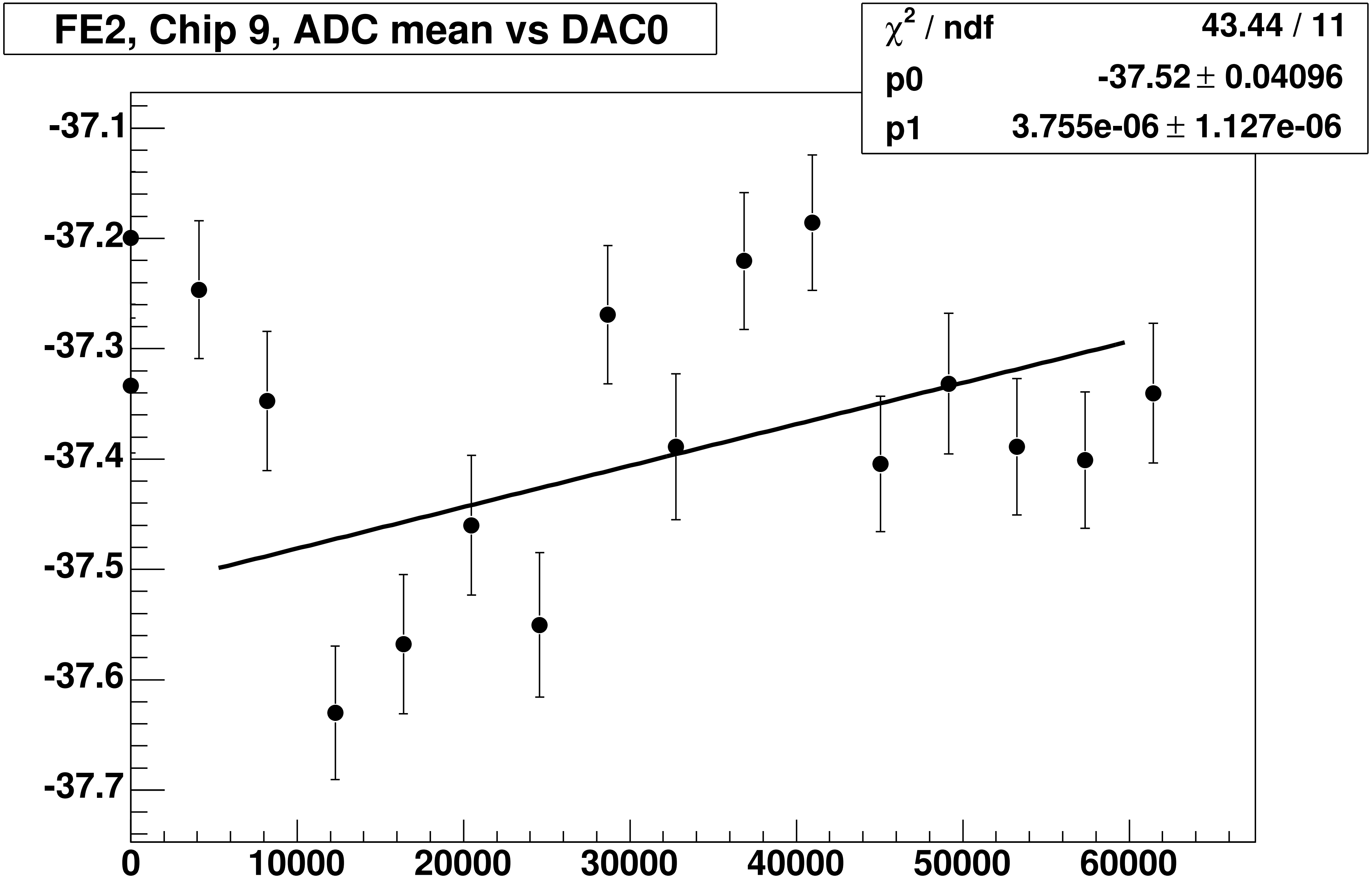
FE2, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



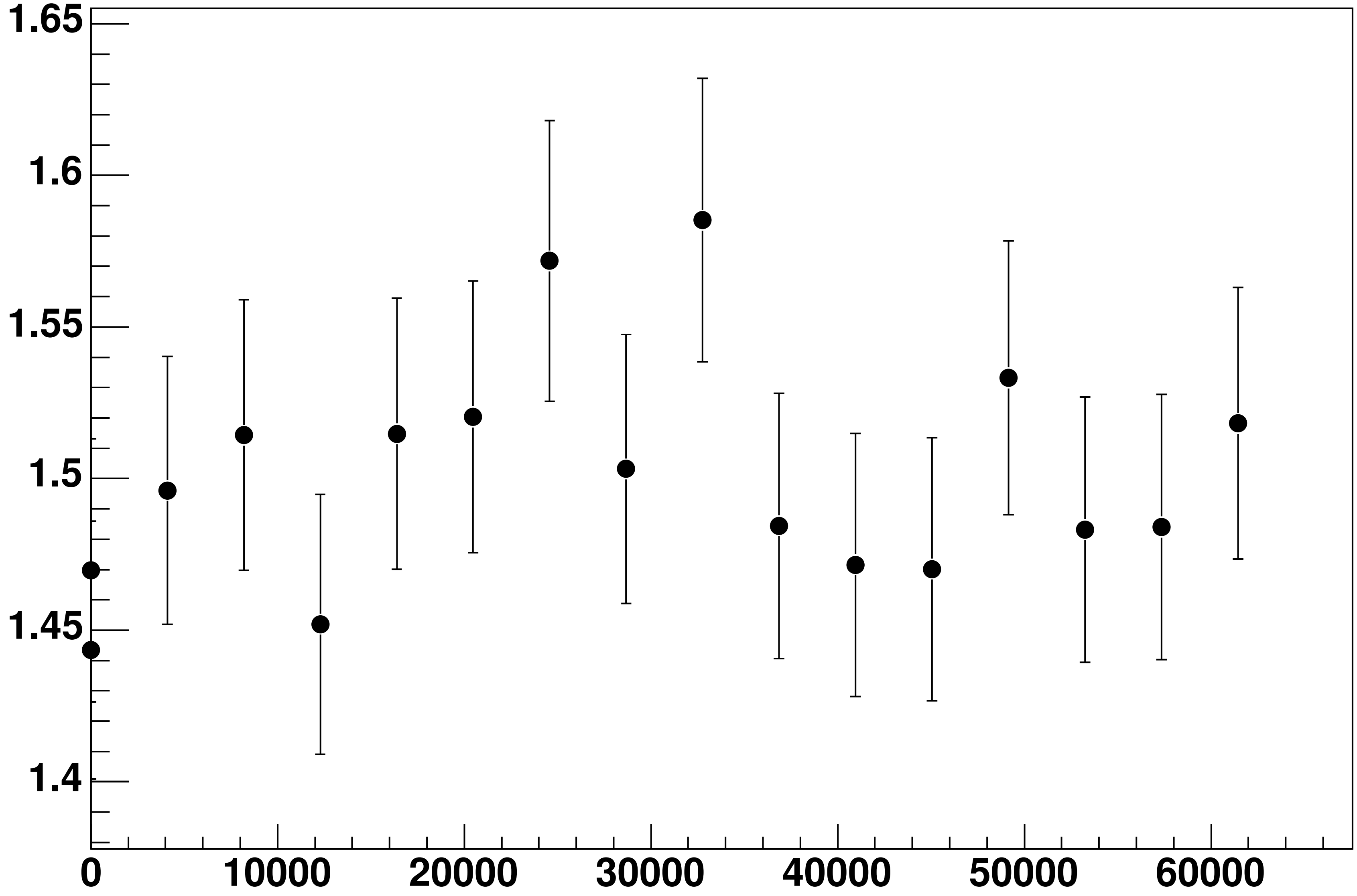
FE2, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1692 / 11
p0 -40.86 ± 0.04126
p1 0.4515 ± 1.324e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

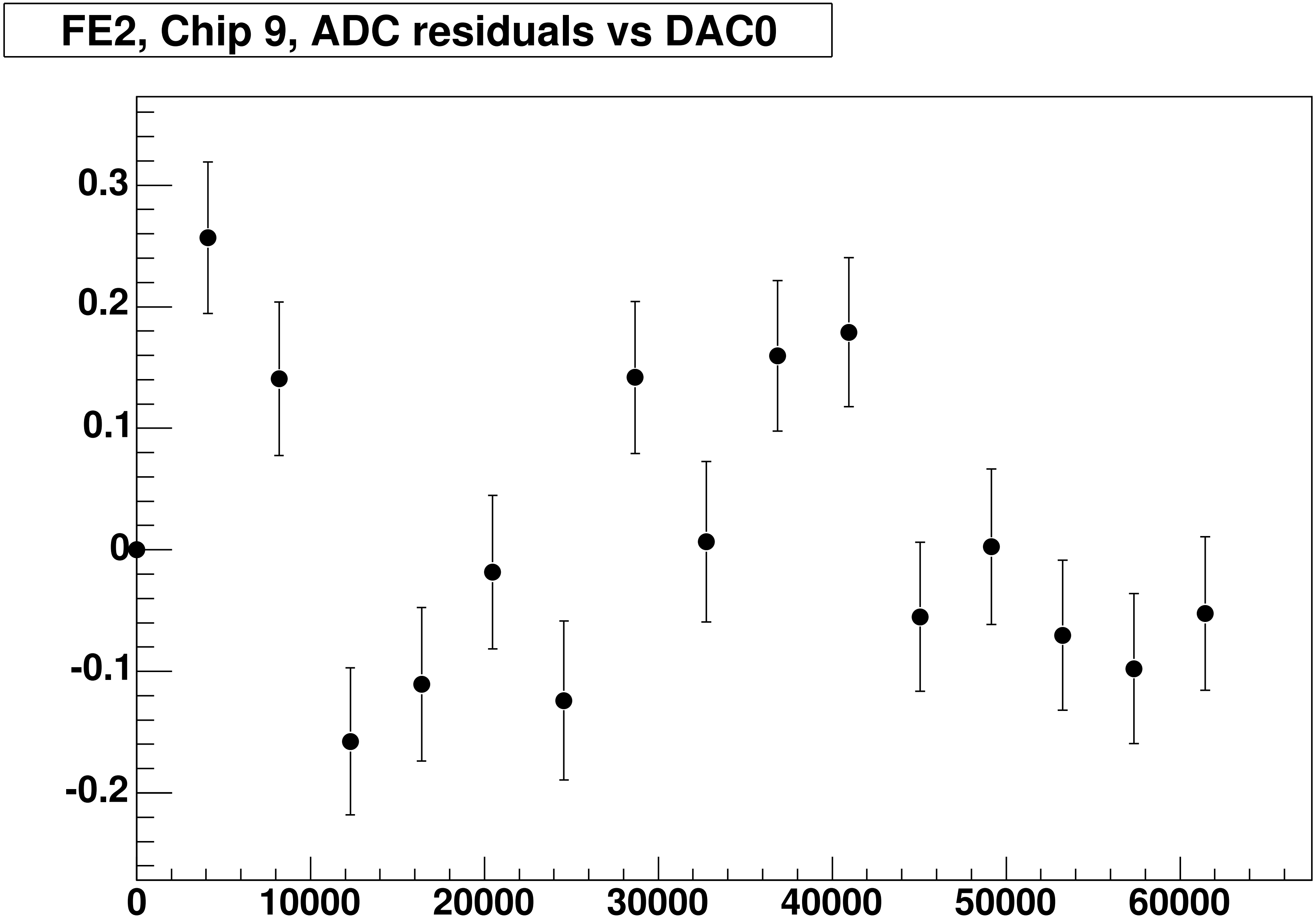

FE2, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

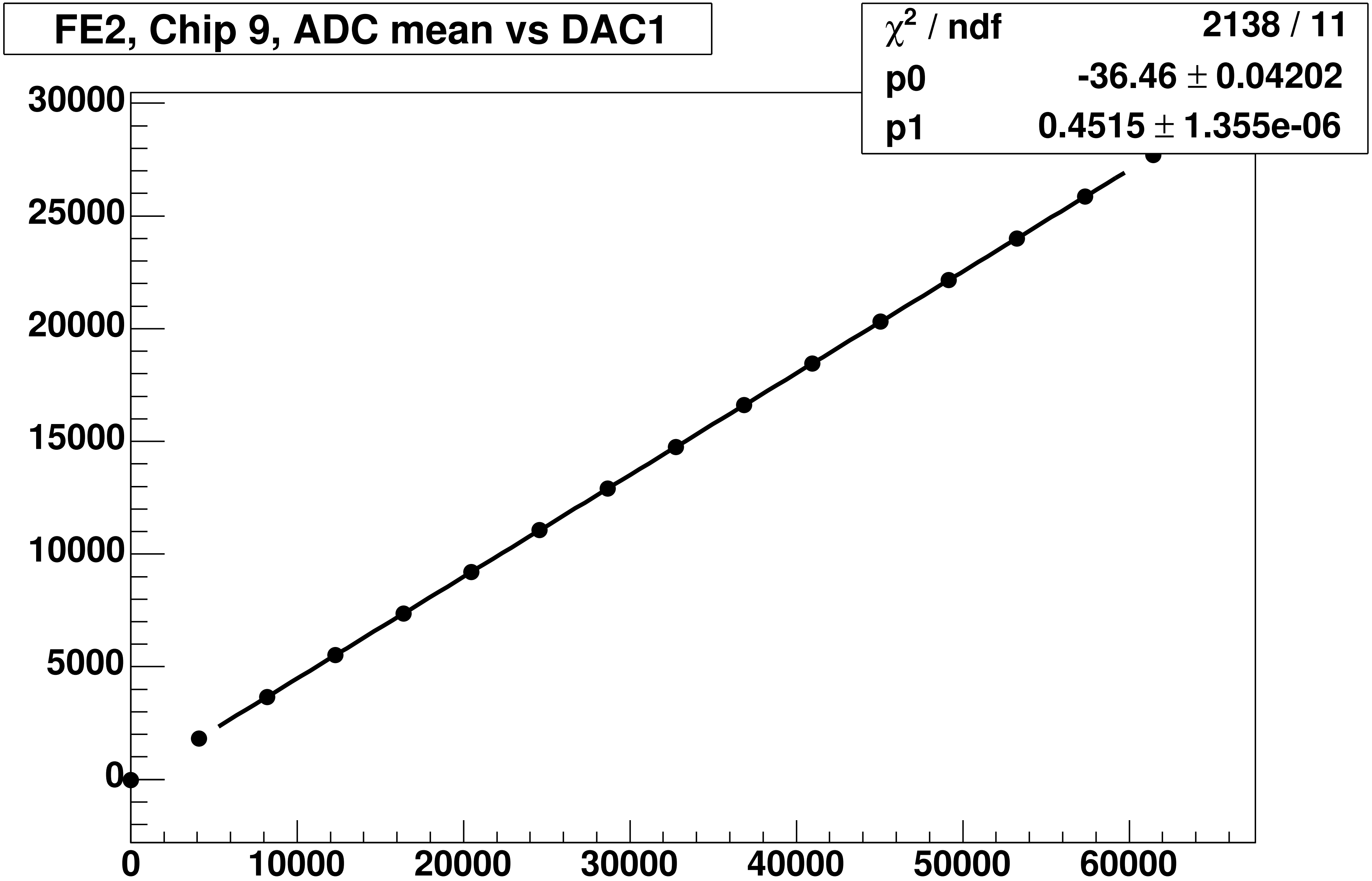

FE2, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
0
10000
20000
30000
40000
50000
60000


FE2, Chip 9, ADC mean vs DAC0
χ² / ndf 43.44 / 11
p0 -37.52 ± 0.04096
p1 3.755e-06 ± 1.127e-06
-37.1
-37.2
-37.3
-37.4
-37.5
-37.6
-37.7
0
10000
20000
30000
40000
50000
60000

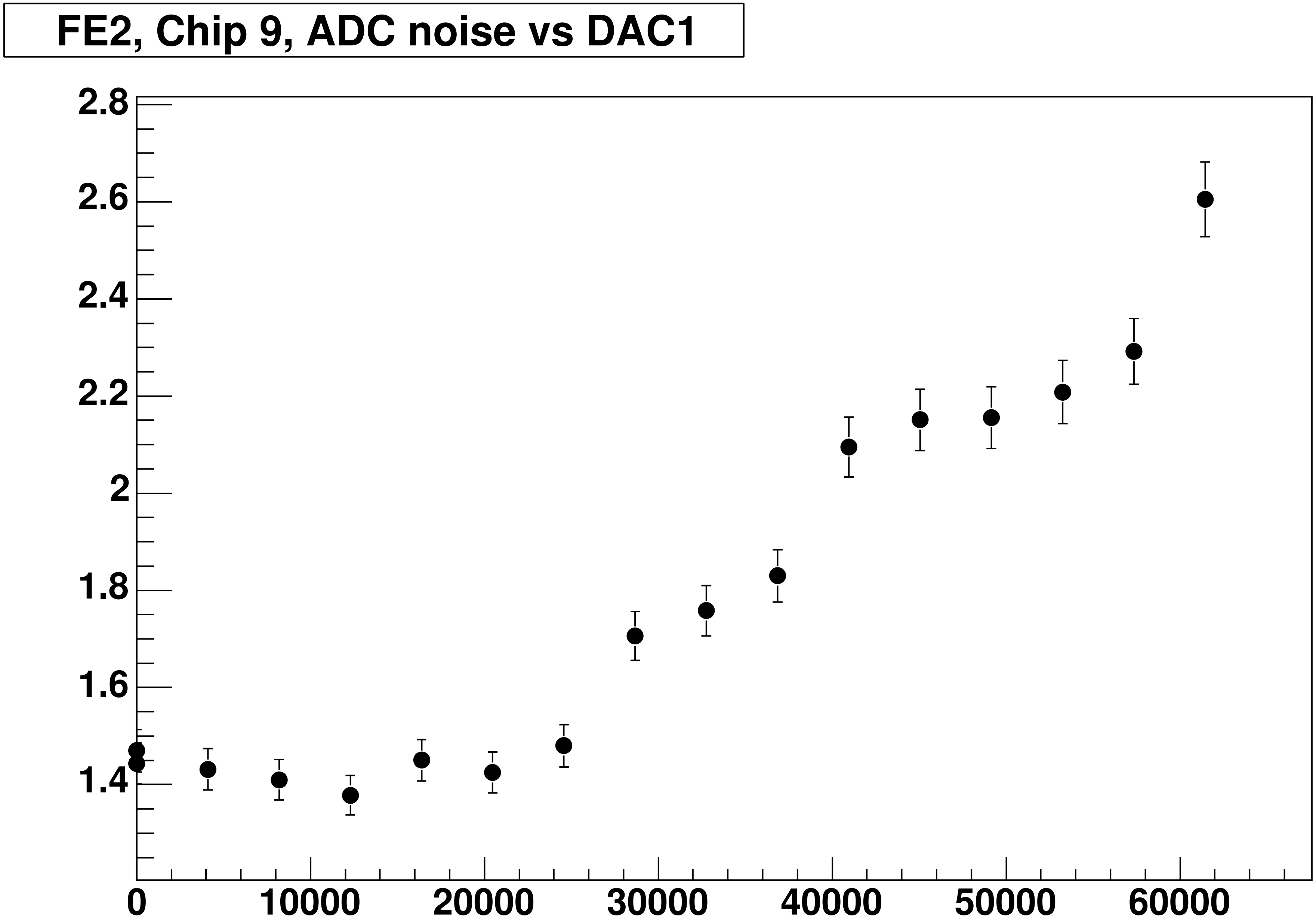
FE2, Chip 9, ADC noise vs DAC0

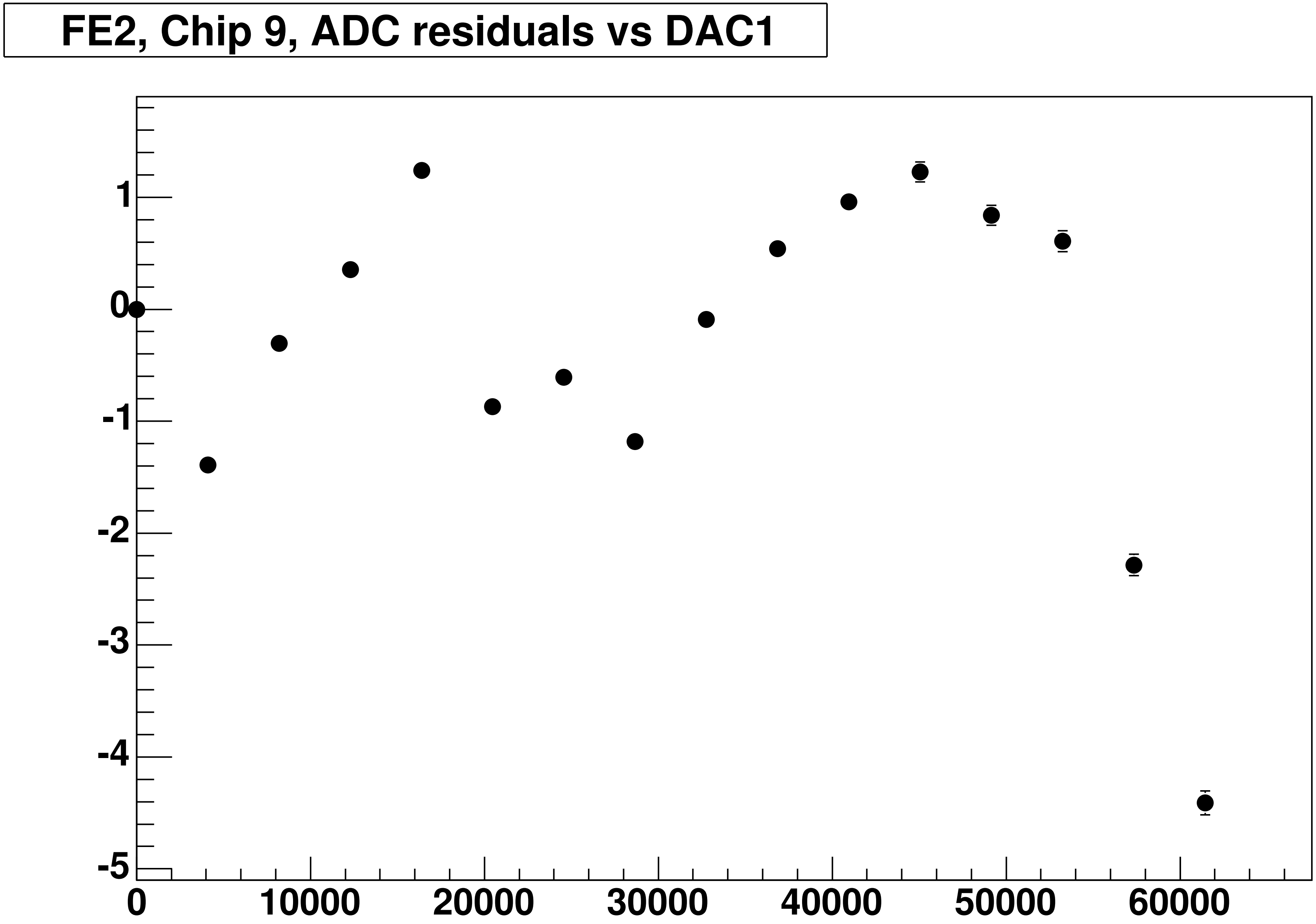


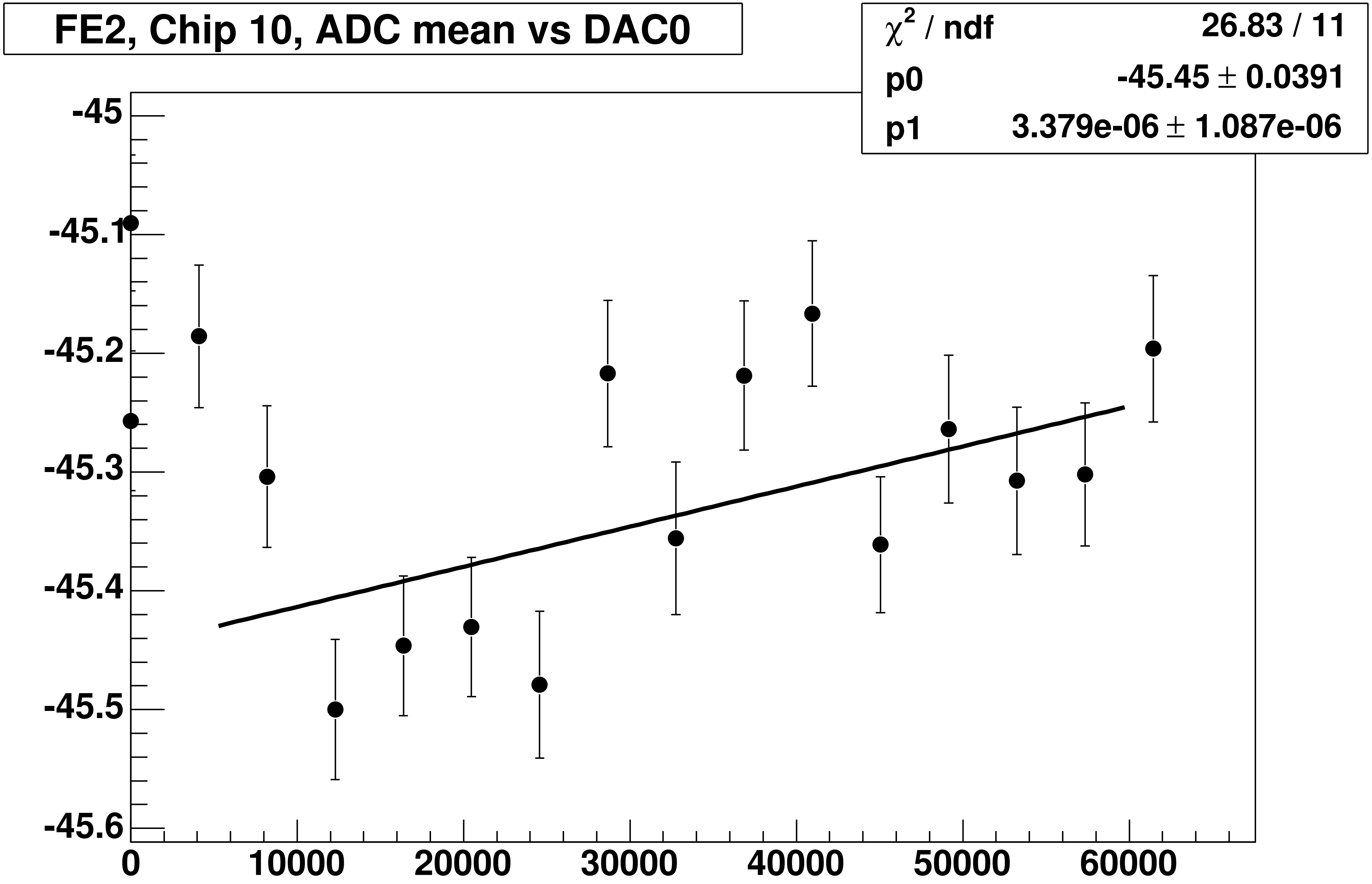

FE2, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



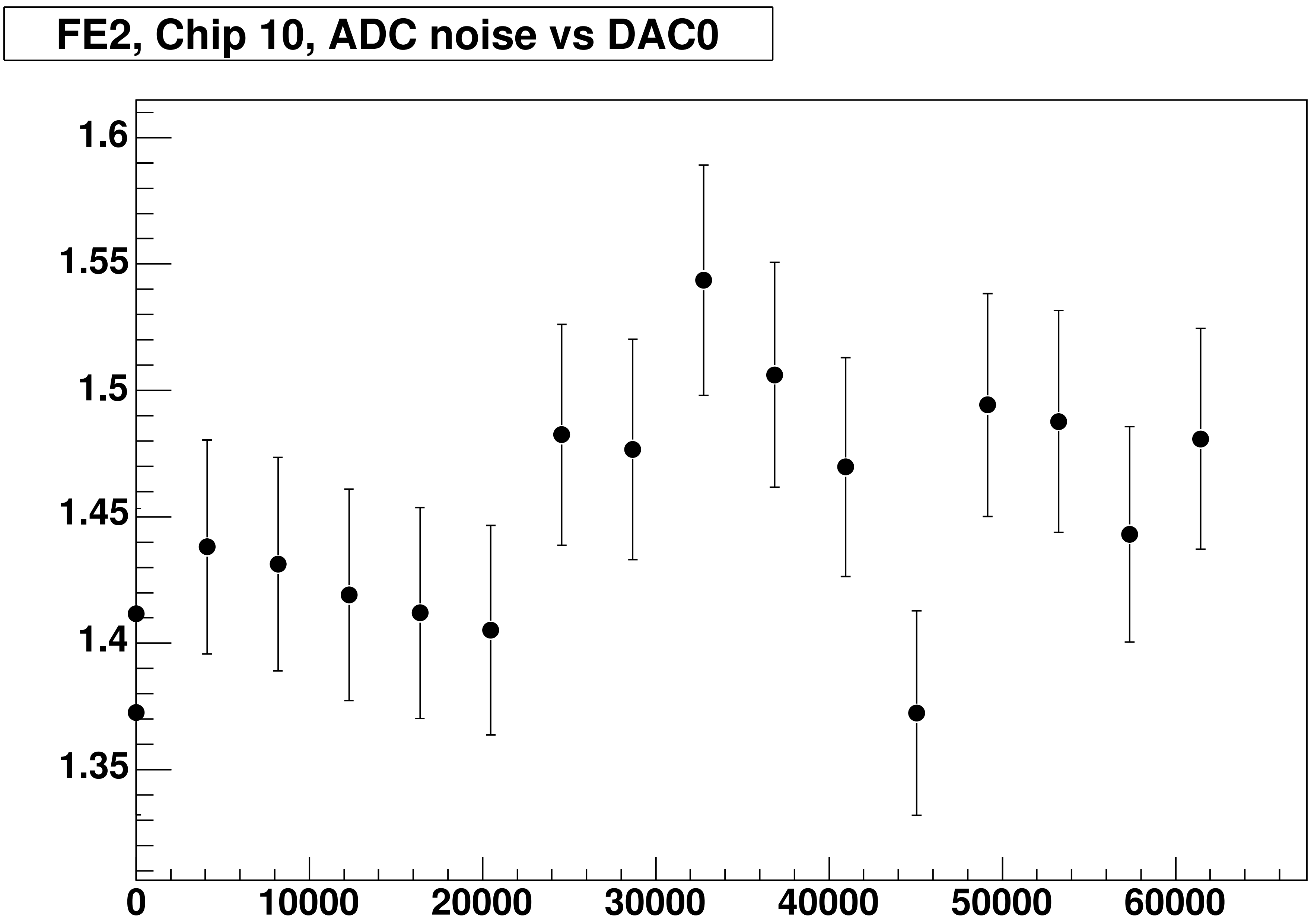
FE2, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2138 / 11
p0 -36.46 ± 0.04202
p1 0.4515 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

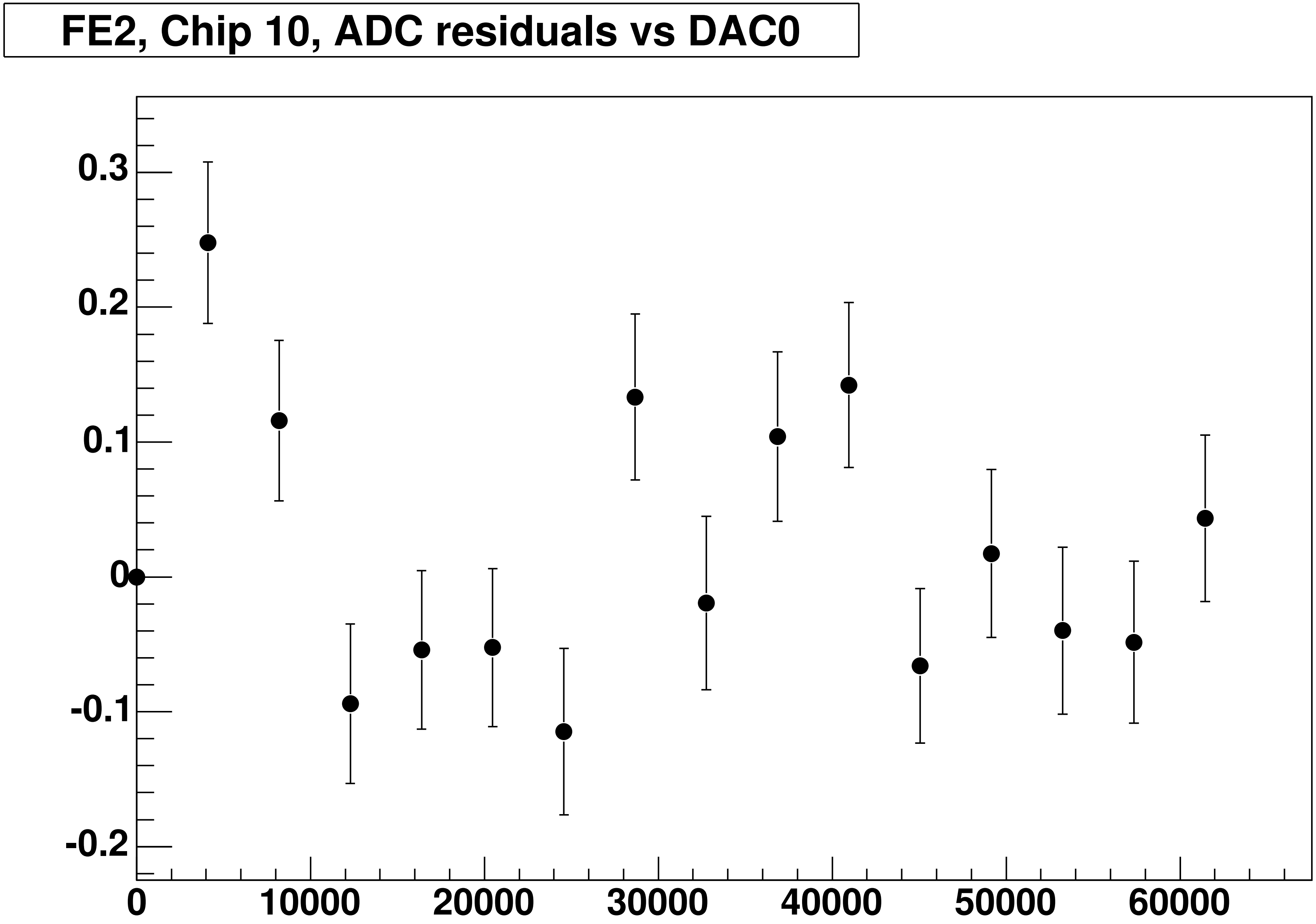

FE2, Chip 9, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

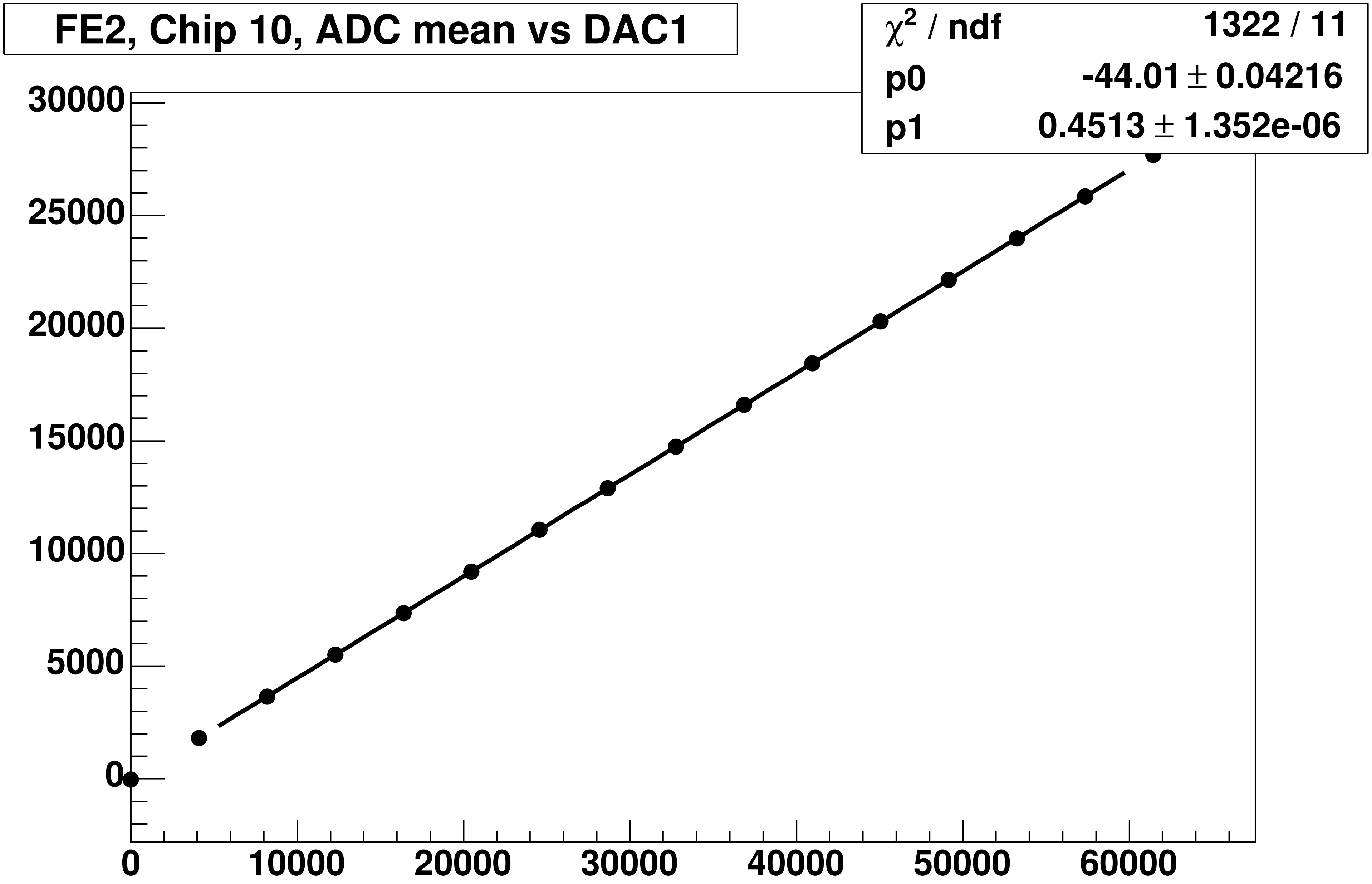


FE2, Chip 10, ADC mean vs DAC0
χ^2 / ndf 26.83 / 11
p0 -45.45 ± 0.0391
p1 3.379e-06 ± 1.087e-06
-45
-45.1
-45.2
-45.3
-45.4
-45.5
-45.6
0
10000
20000
30000
40000
50000
60000

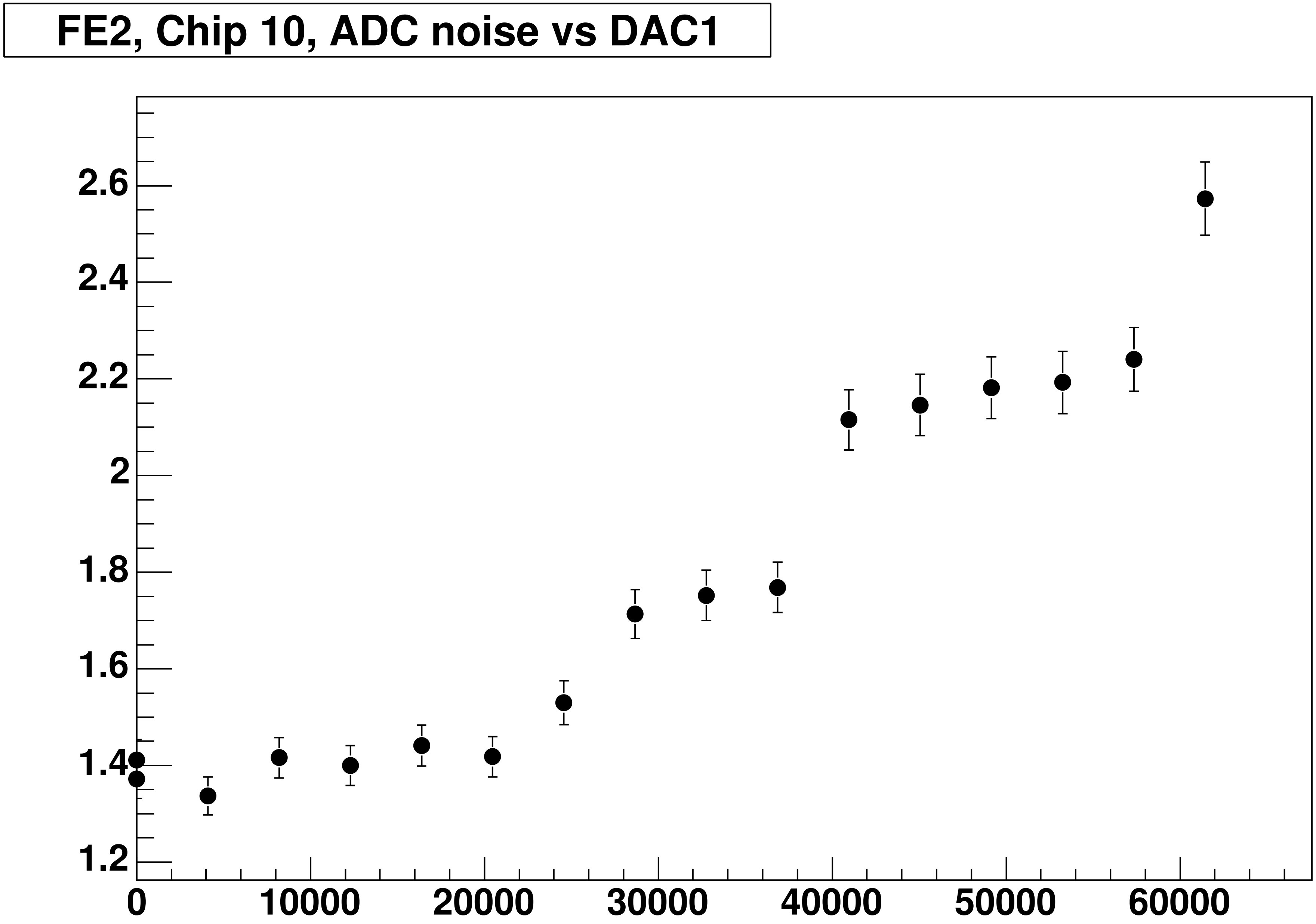

FE2, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

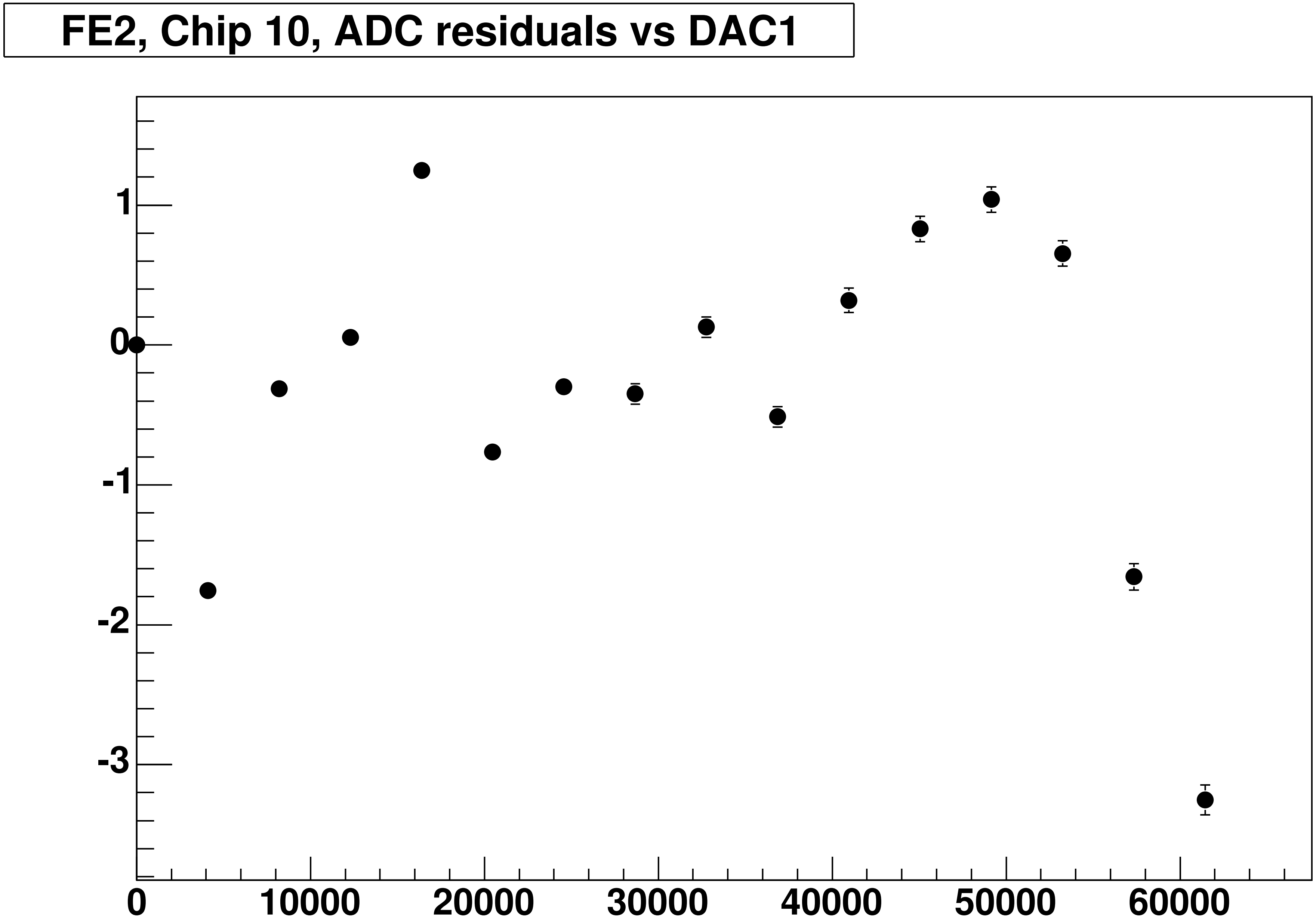


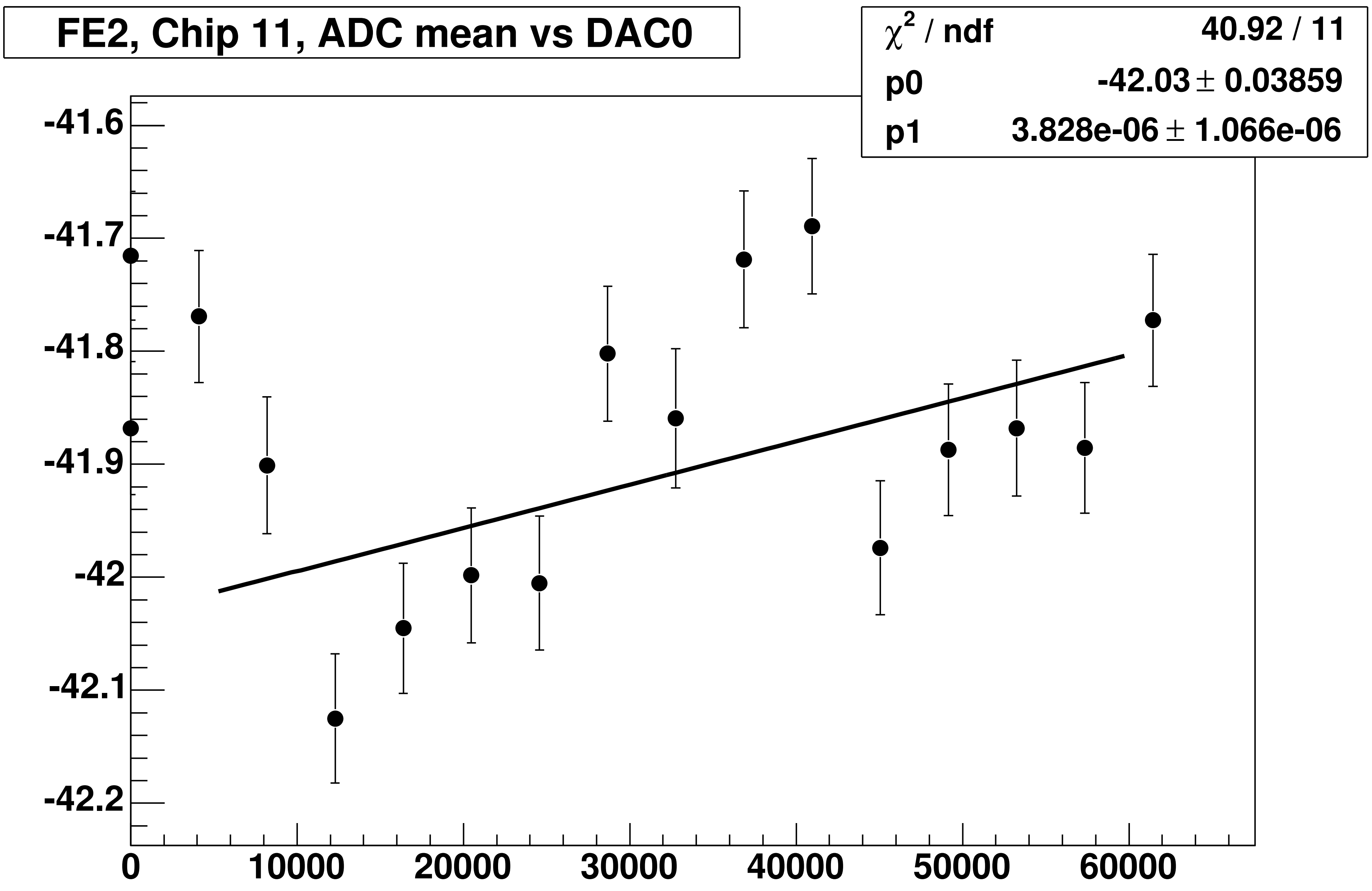
FE2, Chip 10, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



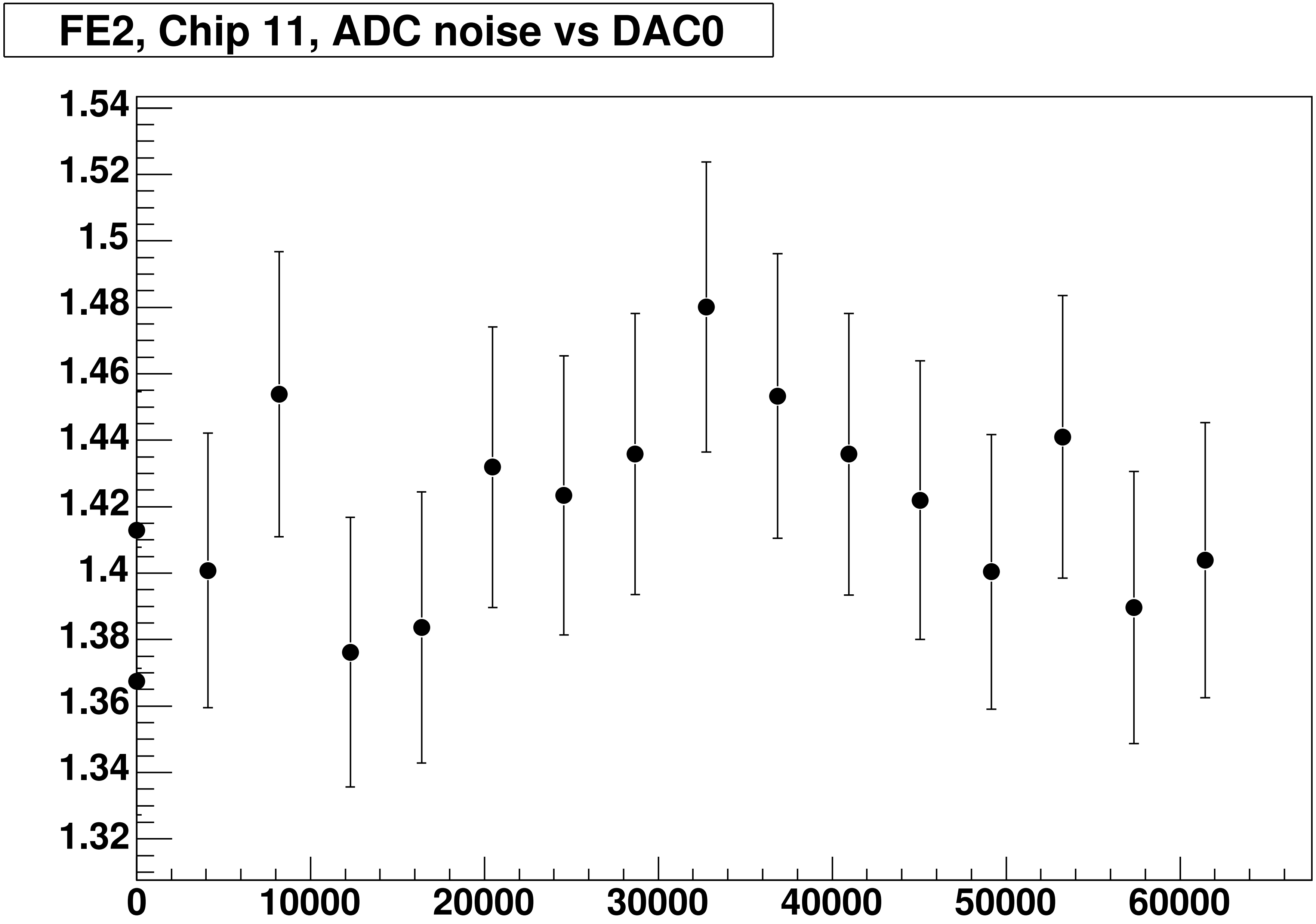
FE2, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1322 / 11
p0 -44.01 ± 0.04216
p1 0.4513 ± 1.352e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

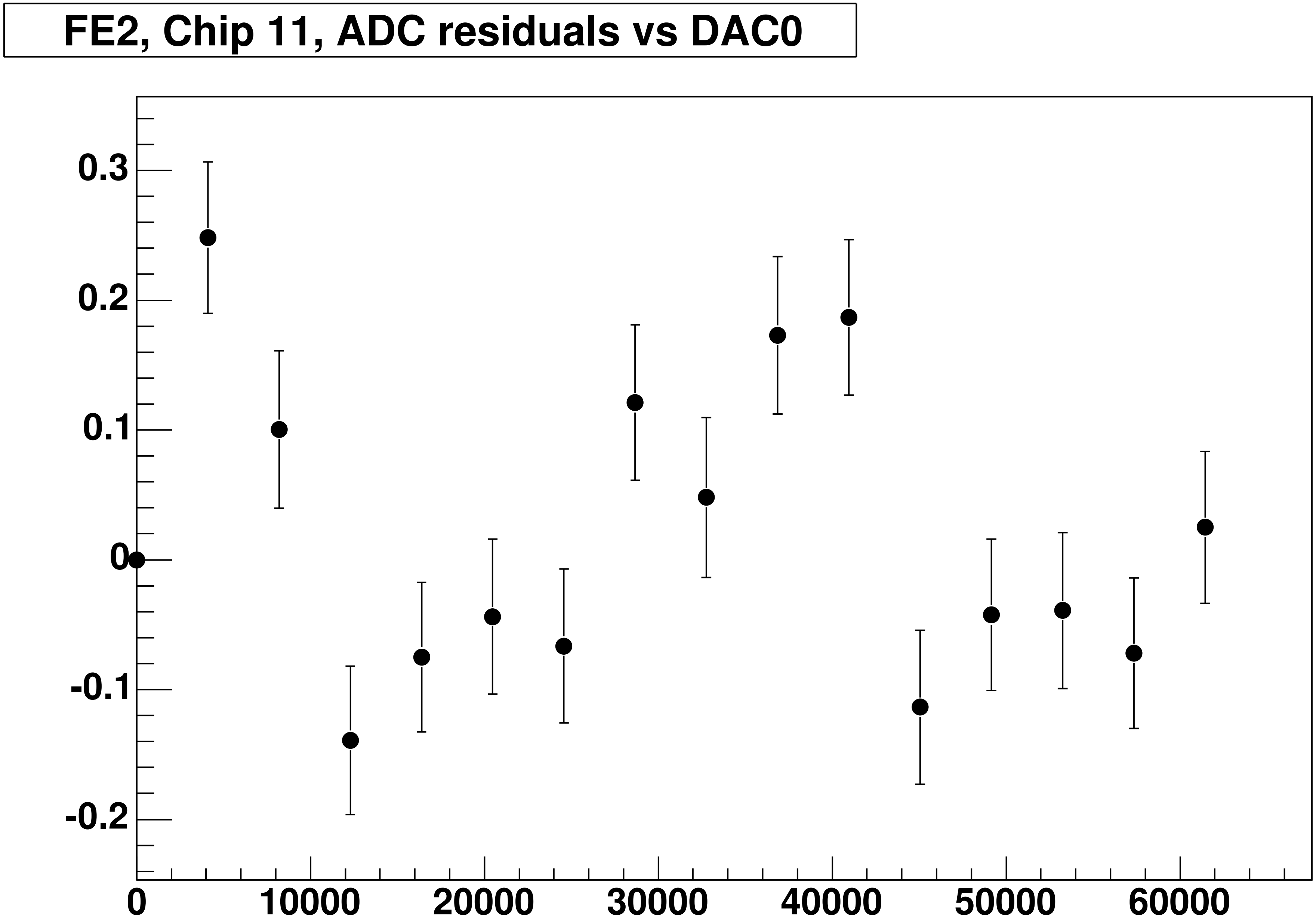

FE2, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
0
10000
20000
30000
40000
50000
60000

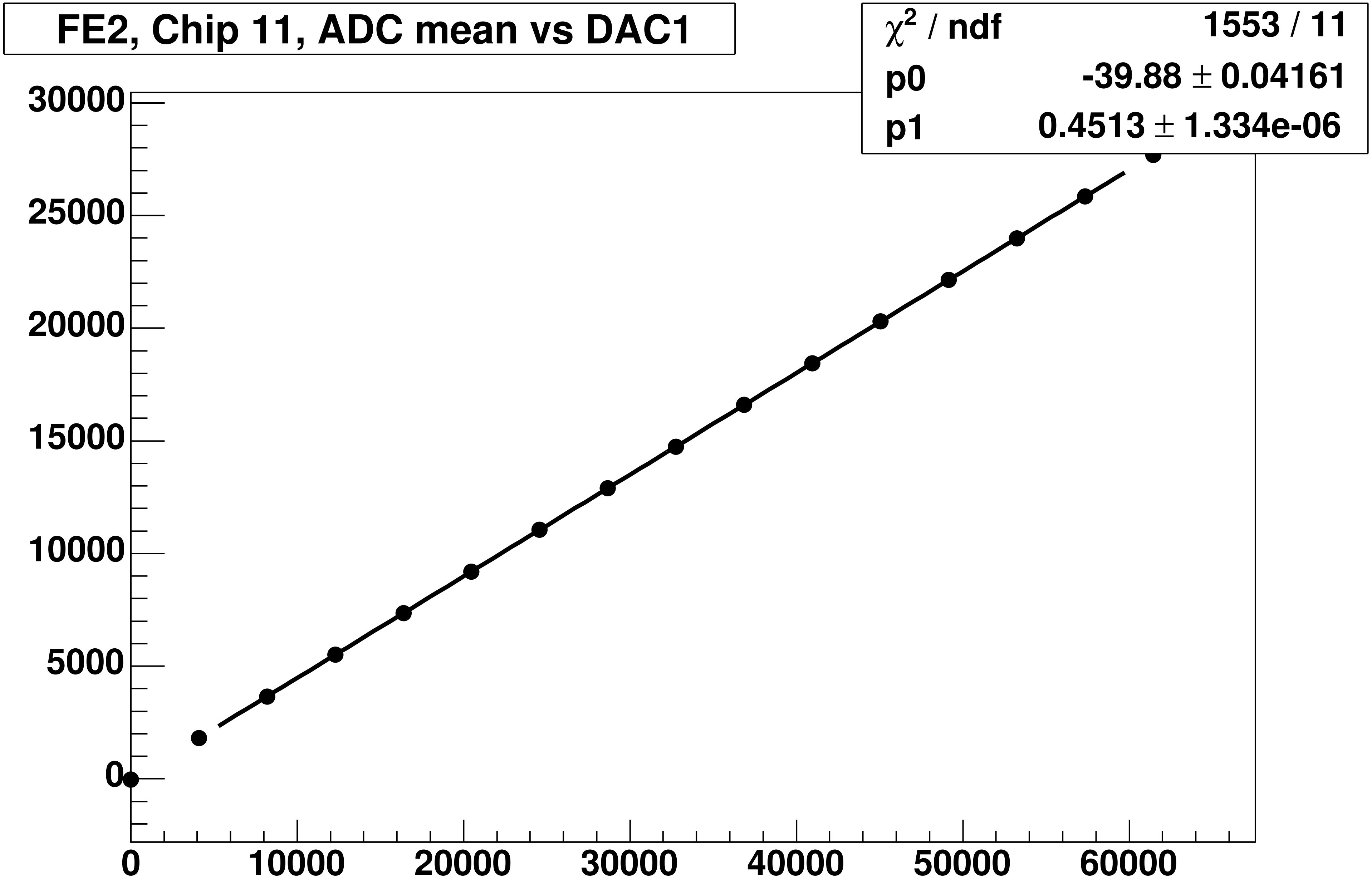


FE2, Chip 11, ADC mean vs DAC0
χ^2 / ndf 40.92 / 11
p0 -42.03 ± 0.03859
p1 3.828e-06 ± 1.066e-06
-41.6
-41.7
-41.8
-41.9
-42
-42.1
-42.2
0
10000
20000
30000
40000
50000
60000

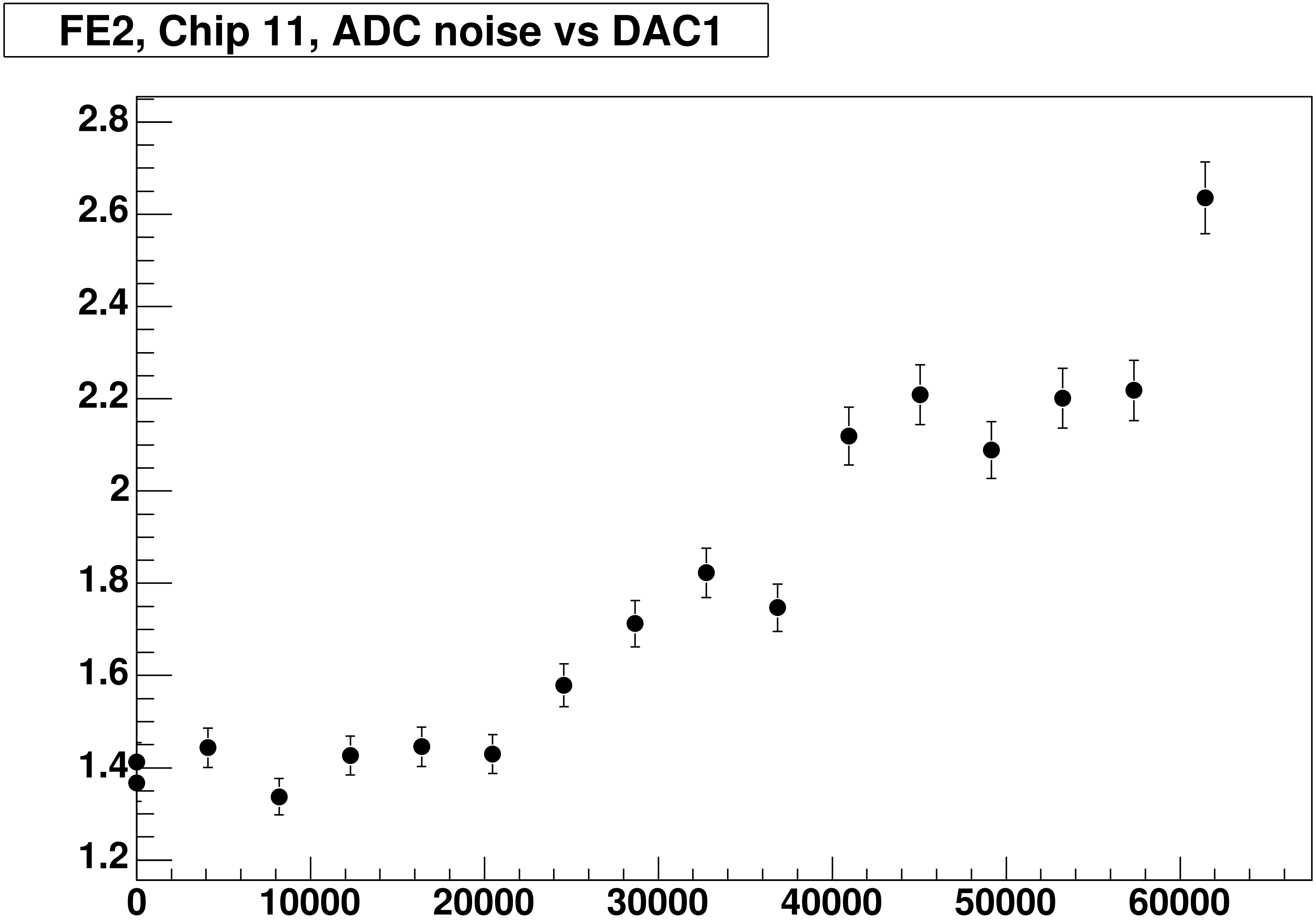


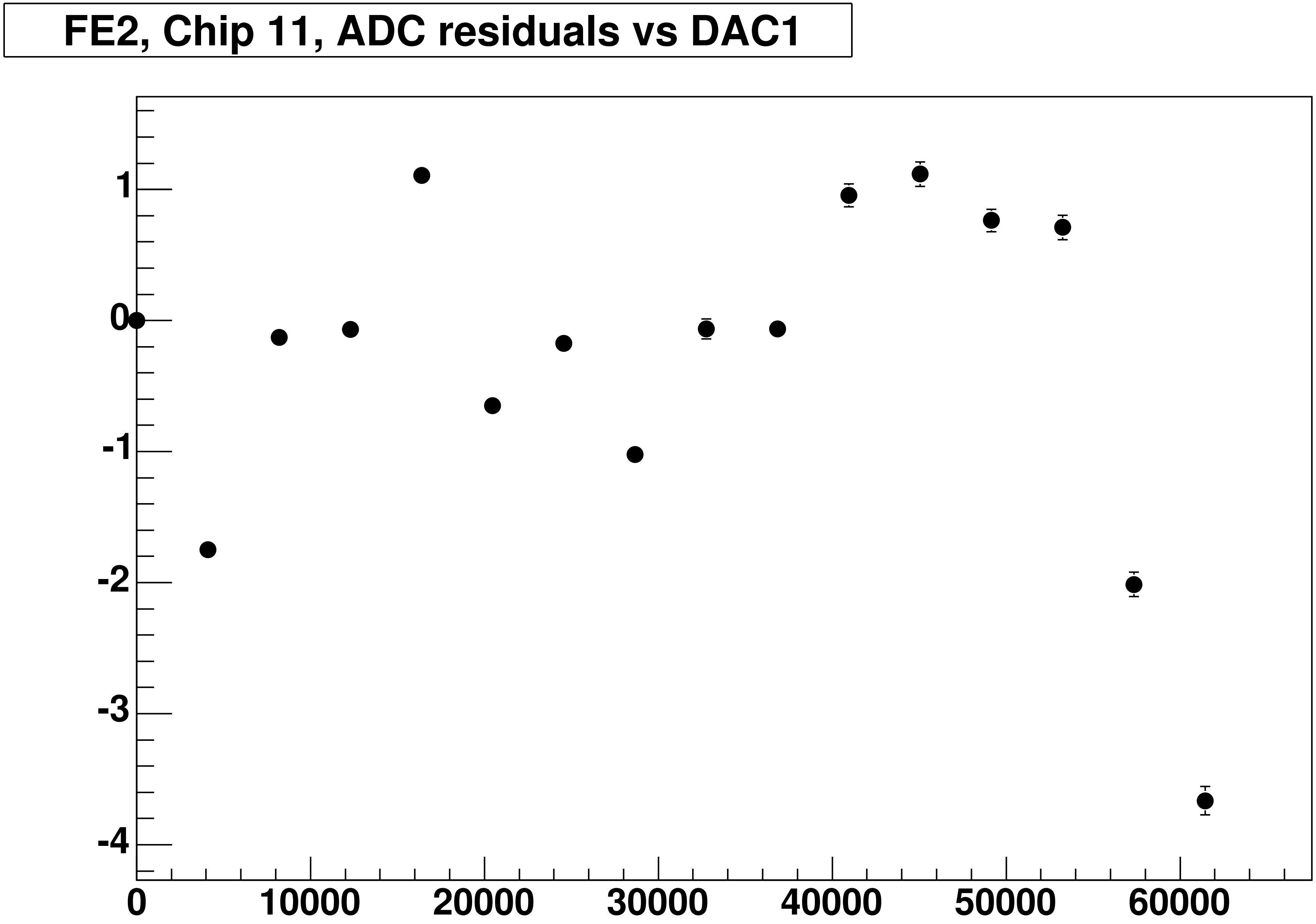
FE2, Chip 11, ADC noise vs DAC0
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
1.34
1.32
0
10000
20000
30000
40000
50000
60000

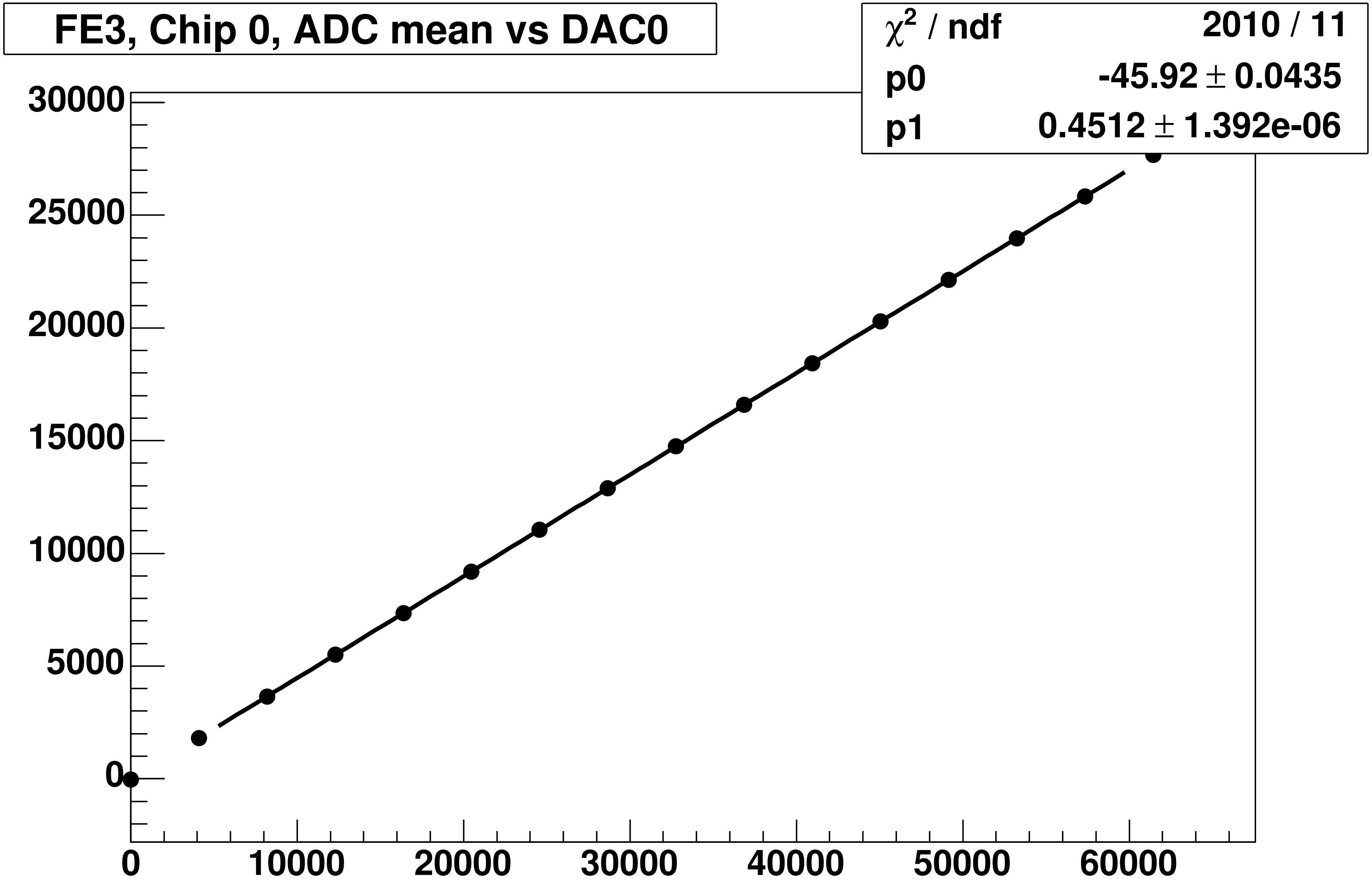

FE2, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



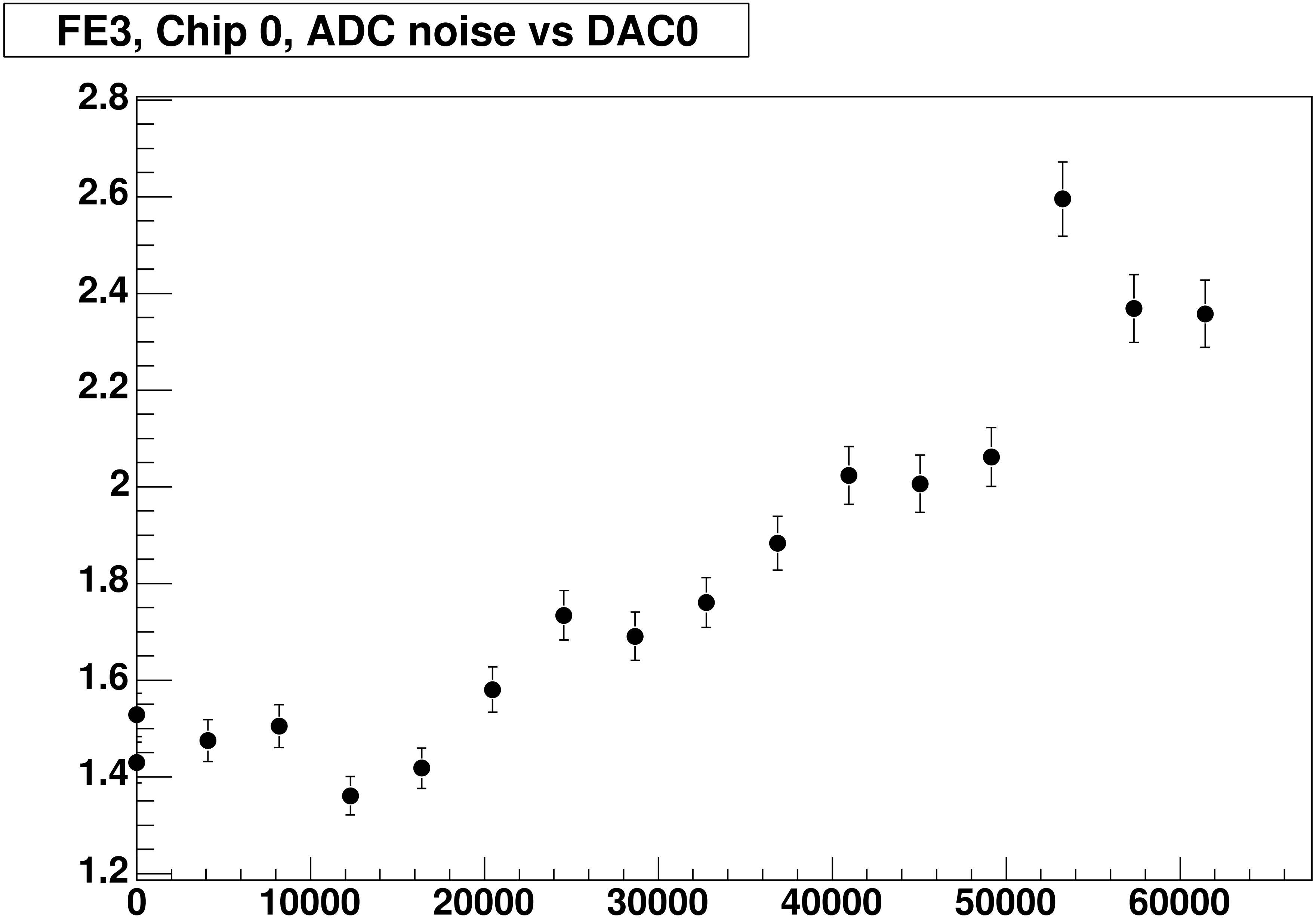
FE2, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1553 / 11
p0 -39.88 ± 0.04161
p1 0.4513 ± 1.334e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

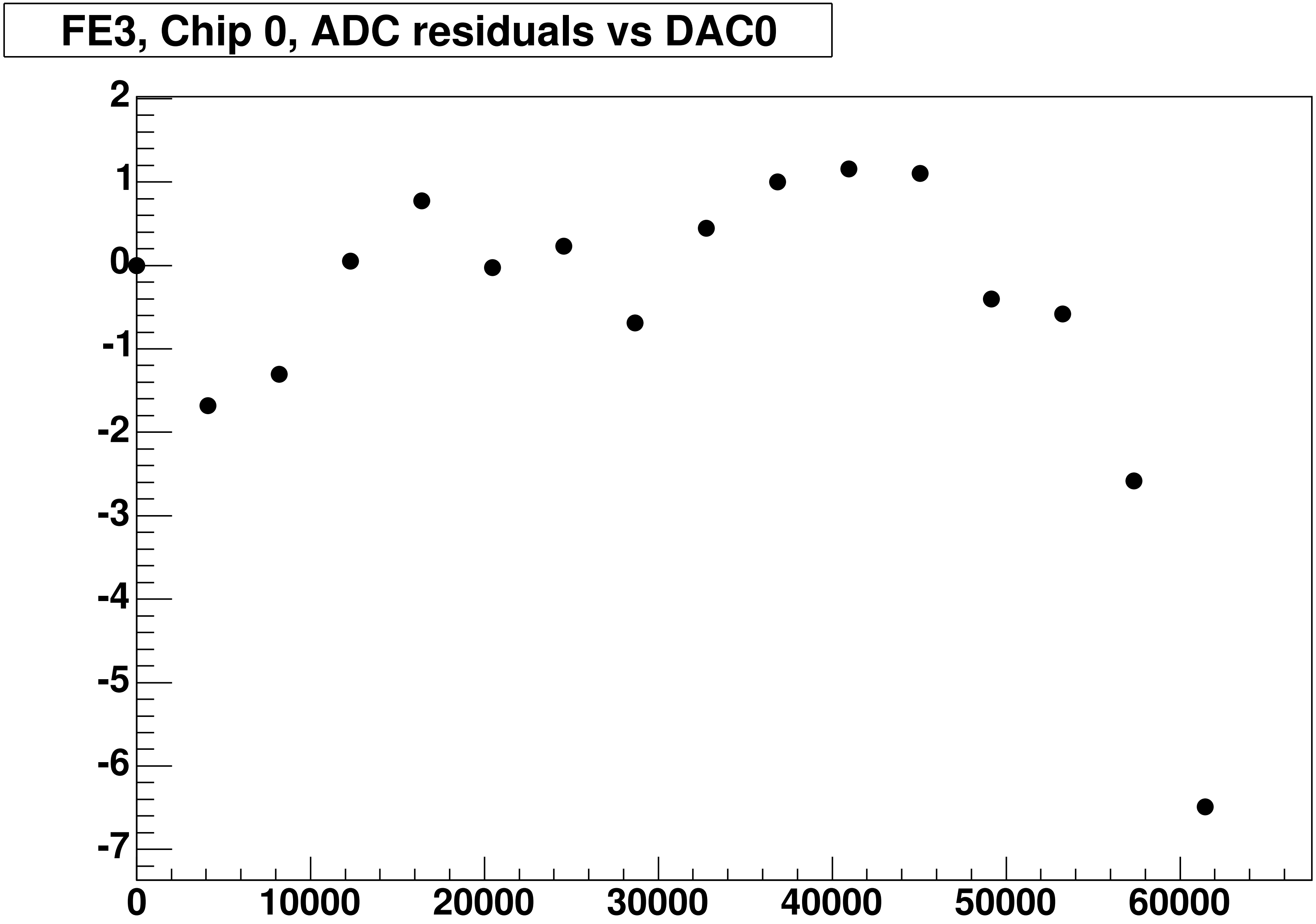

FE2, Chip 11, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

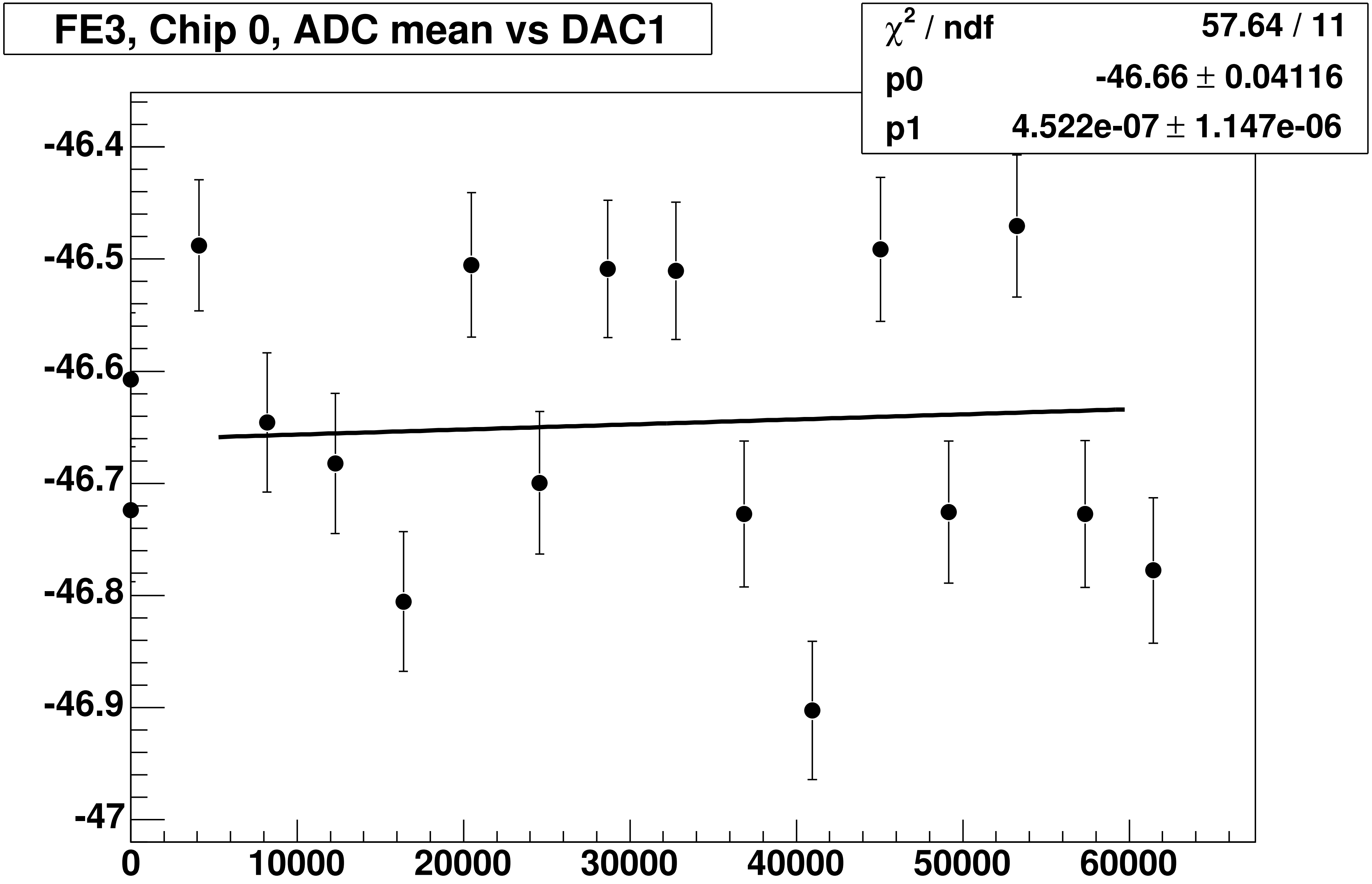

FE2, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



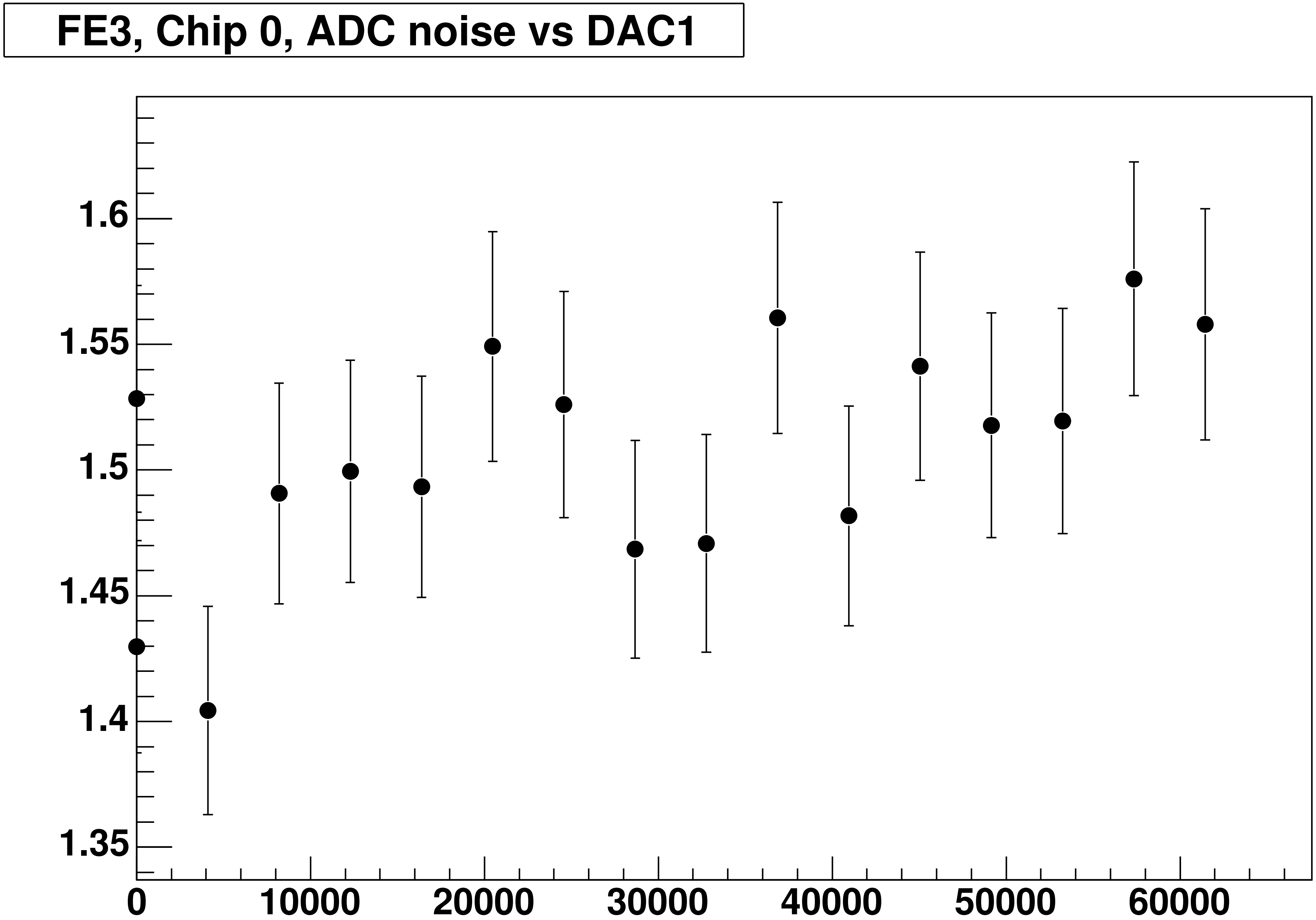
FE3, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2010 / 11
p0 -45.92 ± 0.0435
p1 0.4512 ± 1.392e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

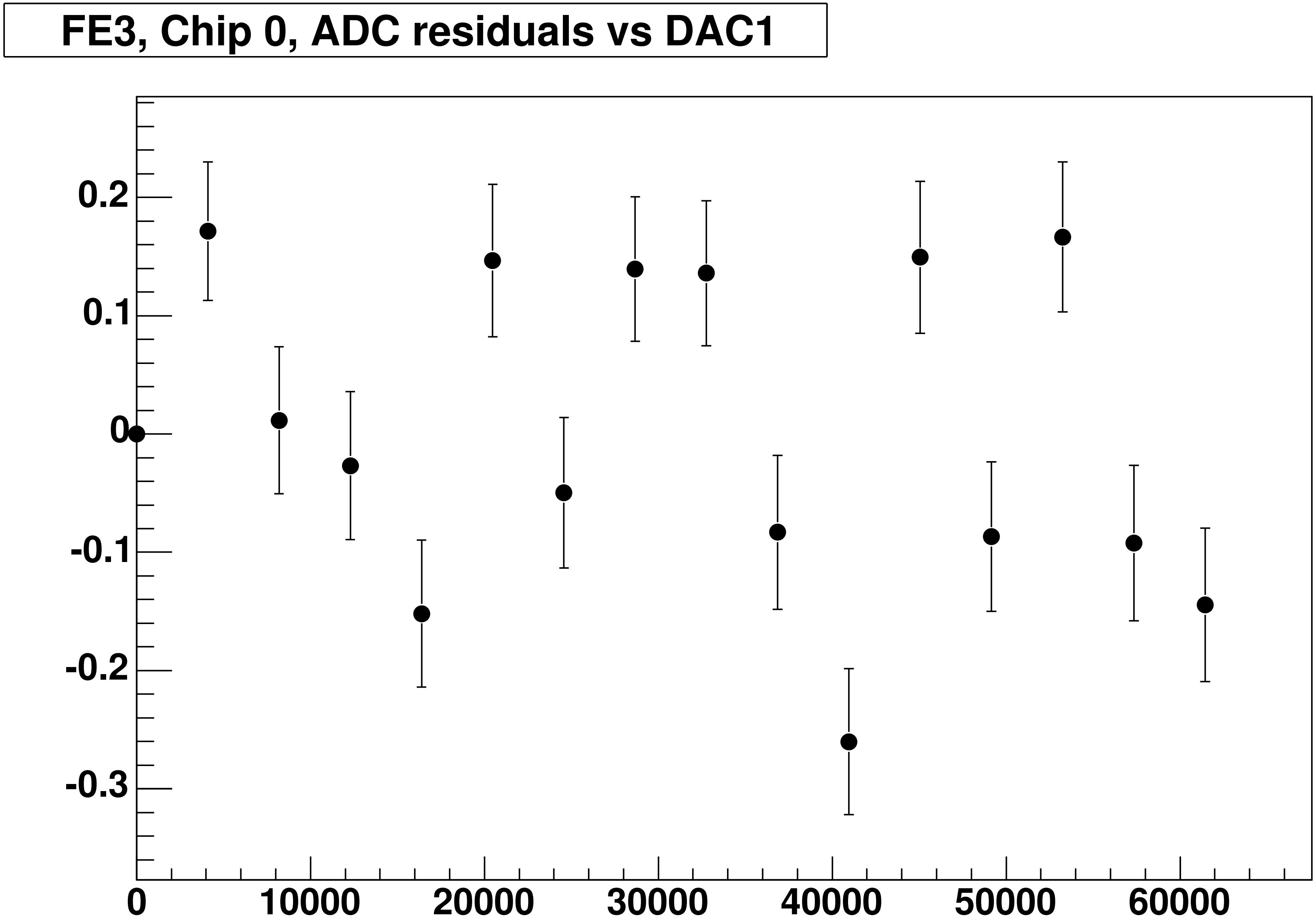

FE3, Chip 0, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

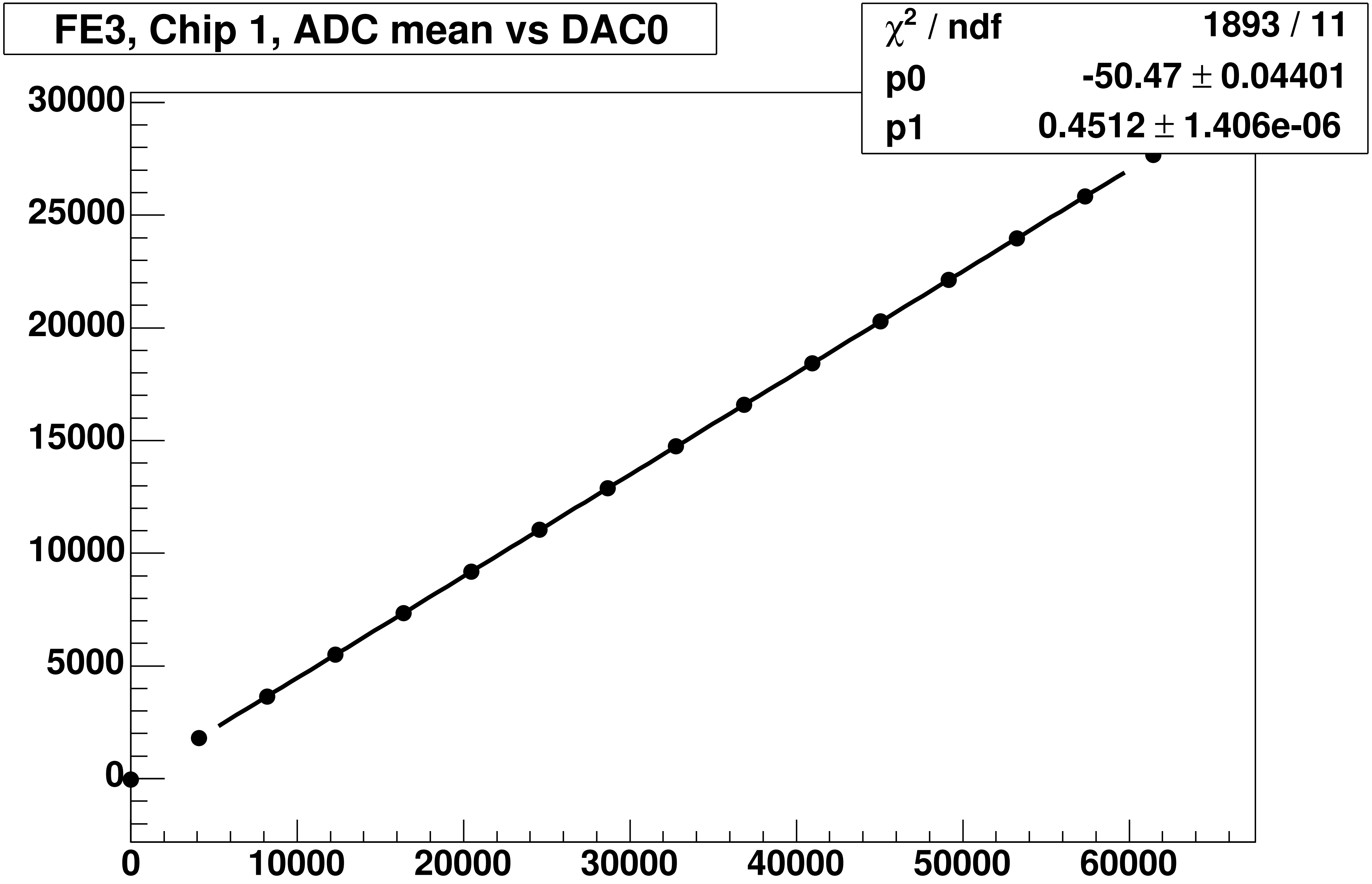

FE3, Chip 0, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000



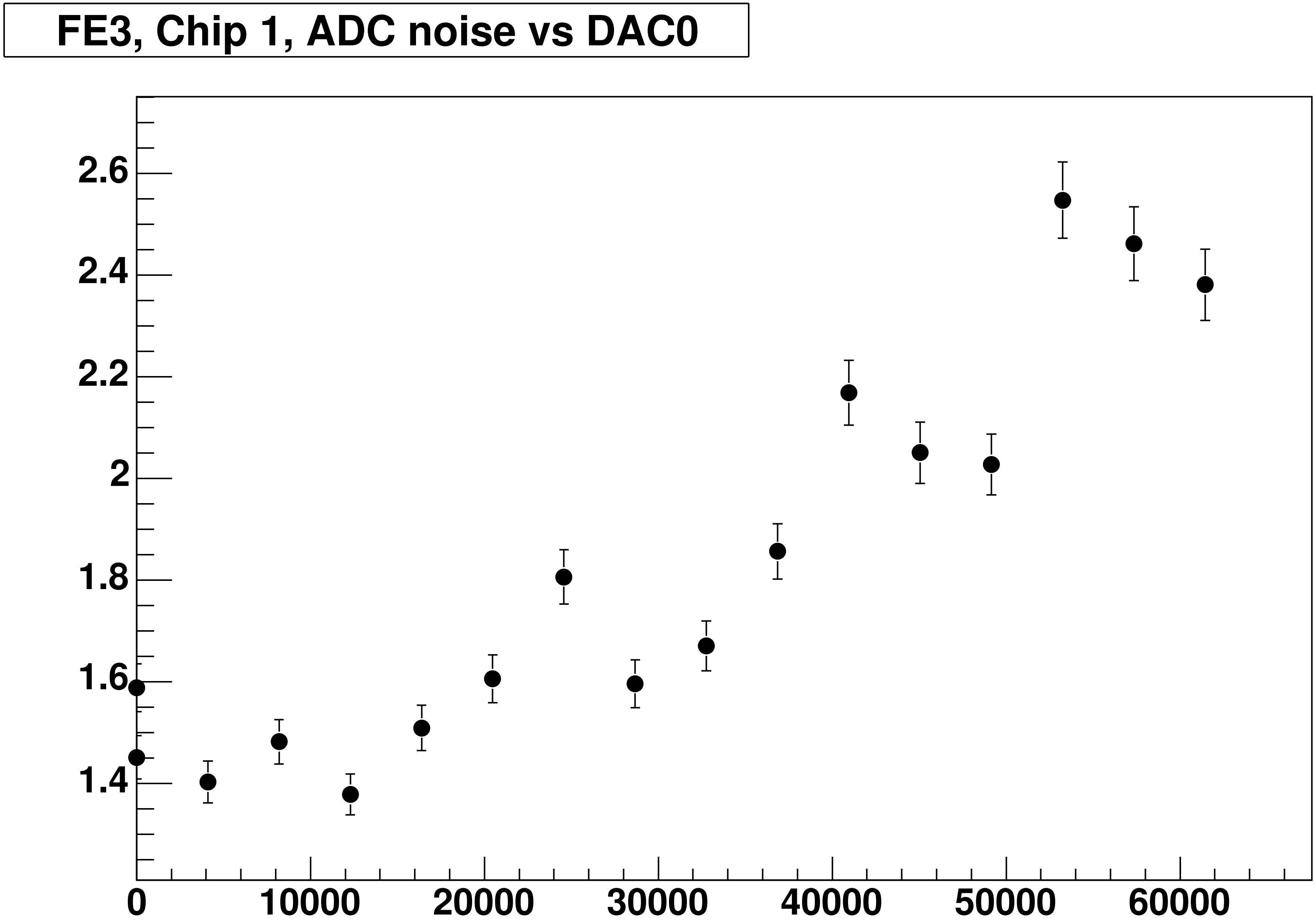
FE3, Chip 0, ADC mean vs DAC1
χ^2 / ndf 57.64 / 11
p0 -46.66 ± 0.04116
p1 4.522e-07 ± 1.147e-06
-46.4
-46.5
-46.6
-46.7
-46.8
-46.9
-47
0
10000
20000
30000
40000
50000
60000

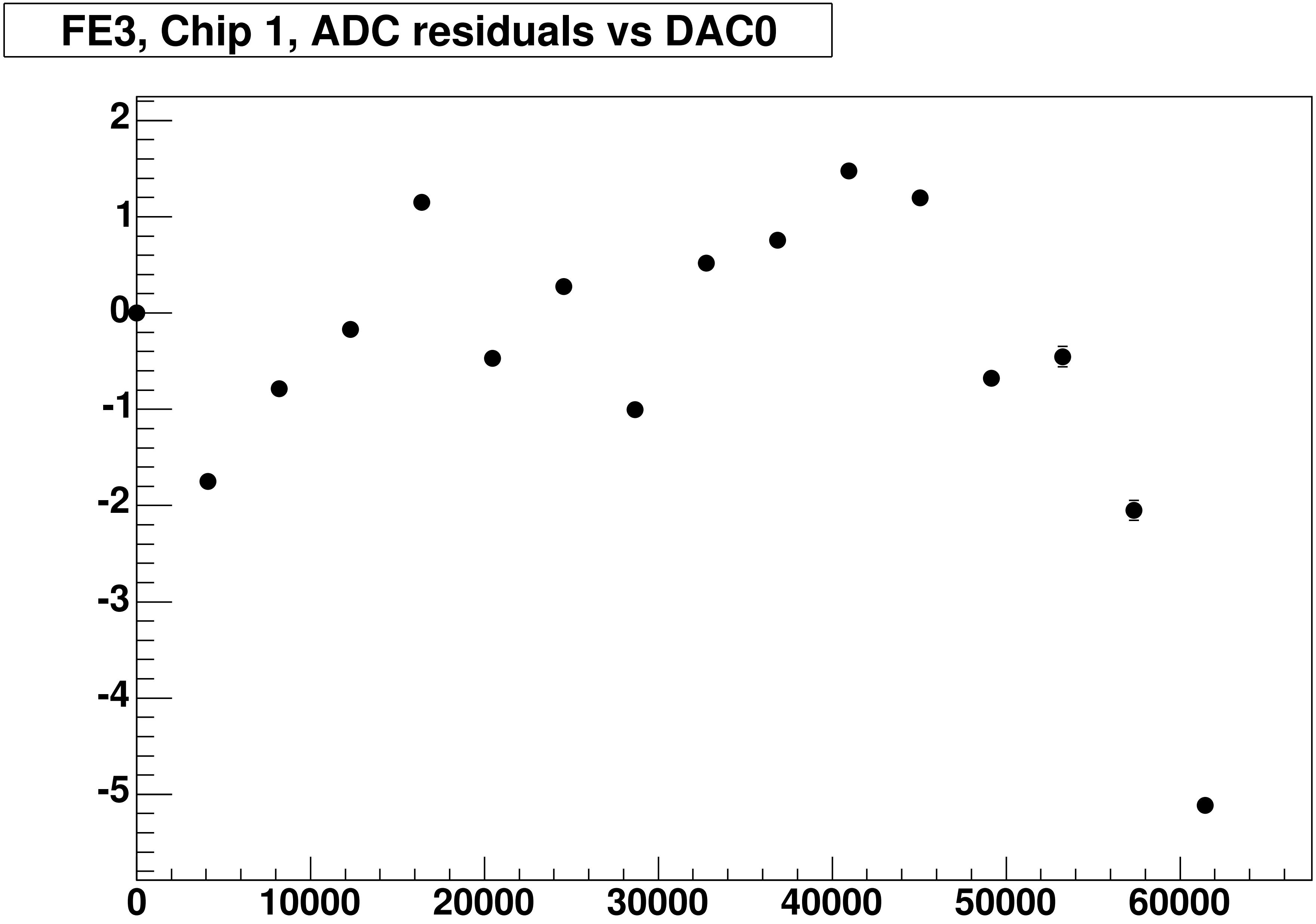

FE3, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

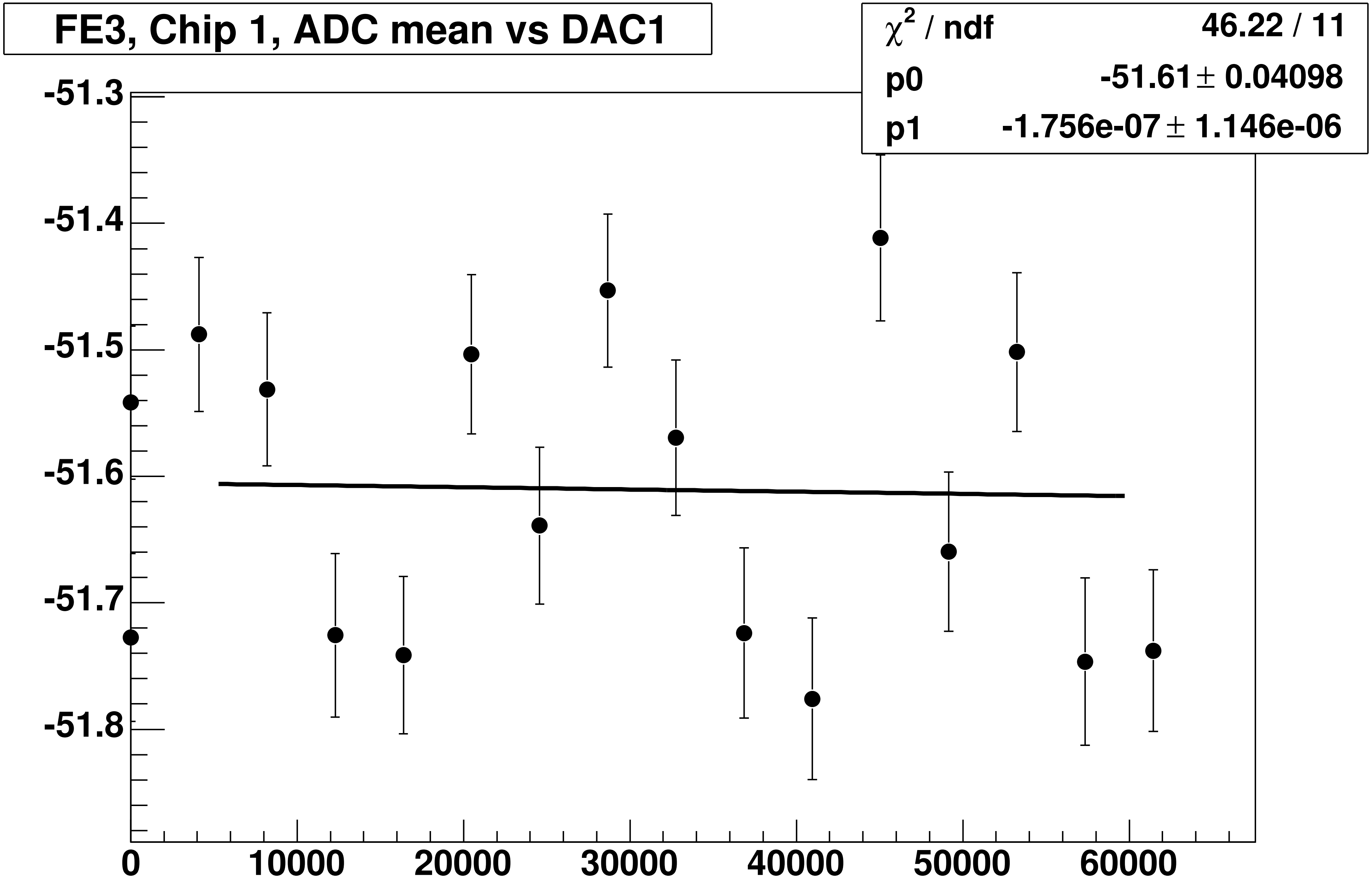


FE3, Chip 1, ADC mean vs DAC0
χ^2 / ndf 1893 / 11
p0 -50.47 ± 0.04401
p1 0.4512 ± 1.406e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

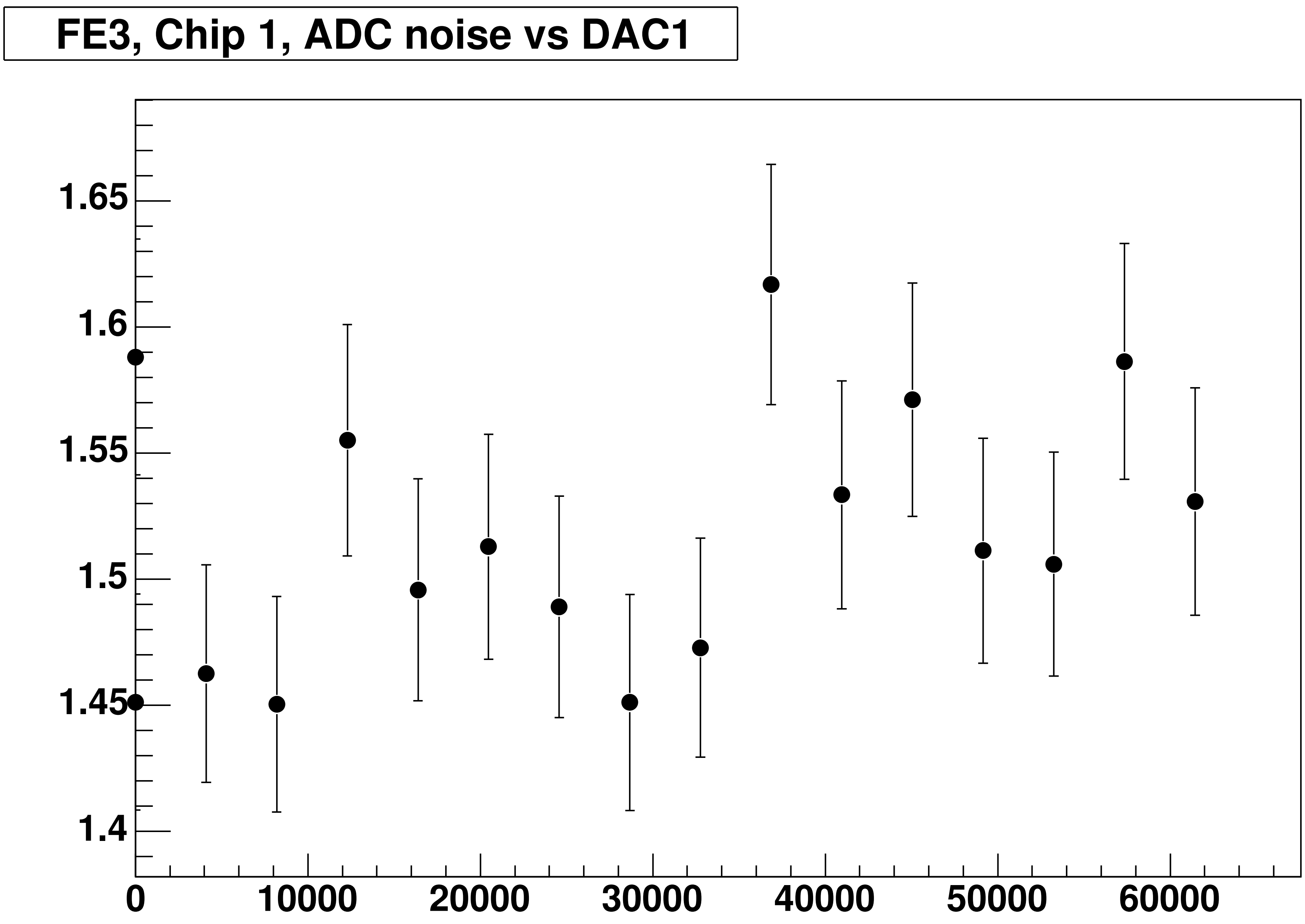

FE3, Chip 1, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



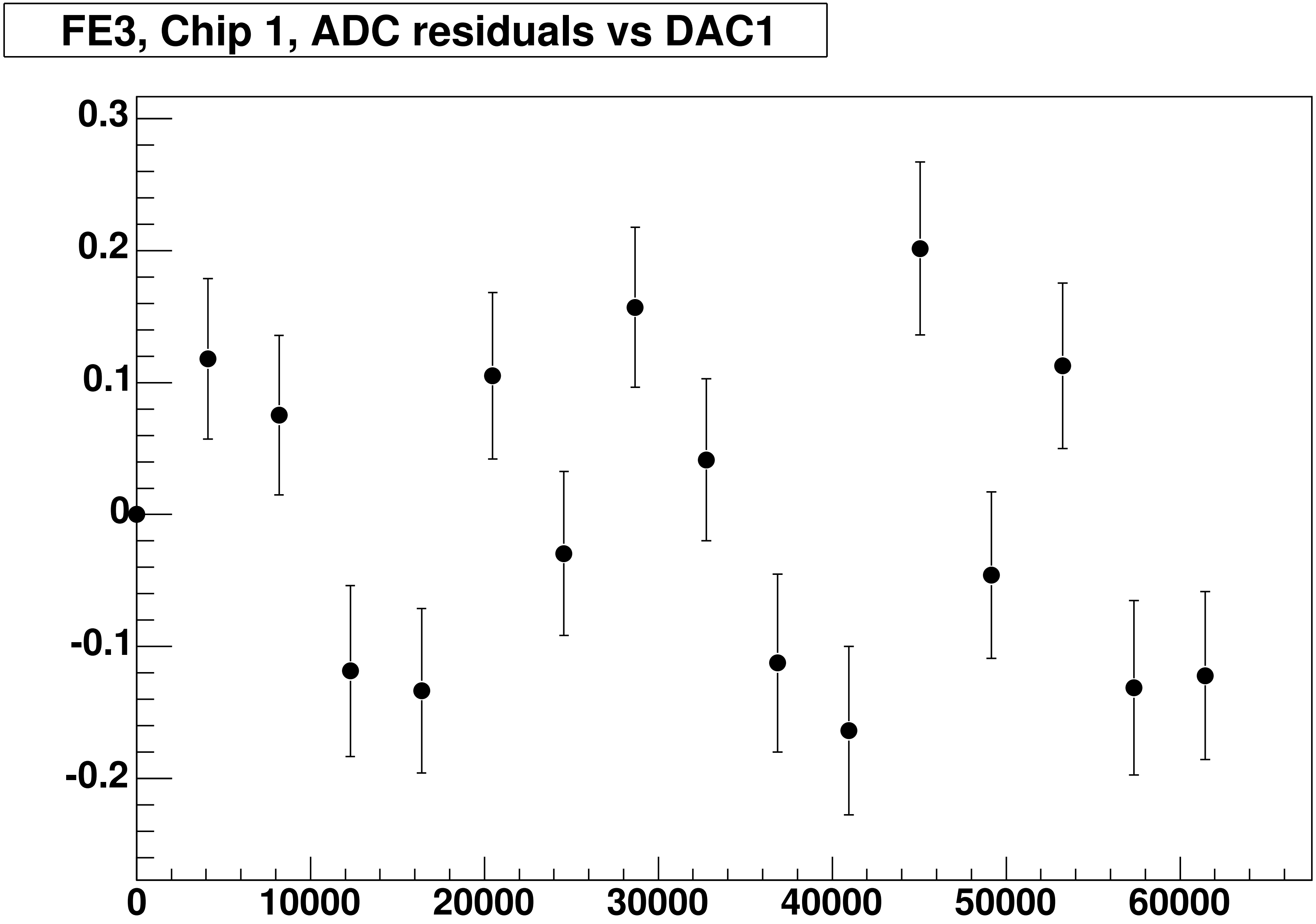
FE3, Chip 1, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

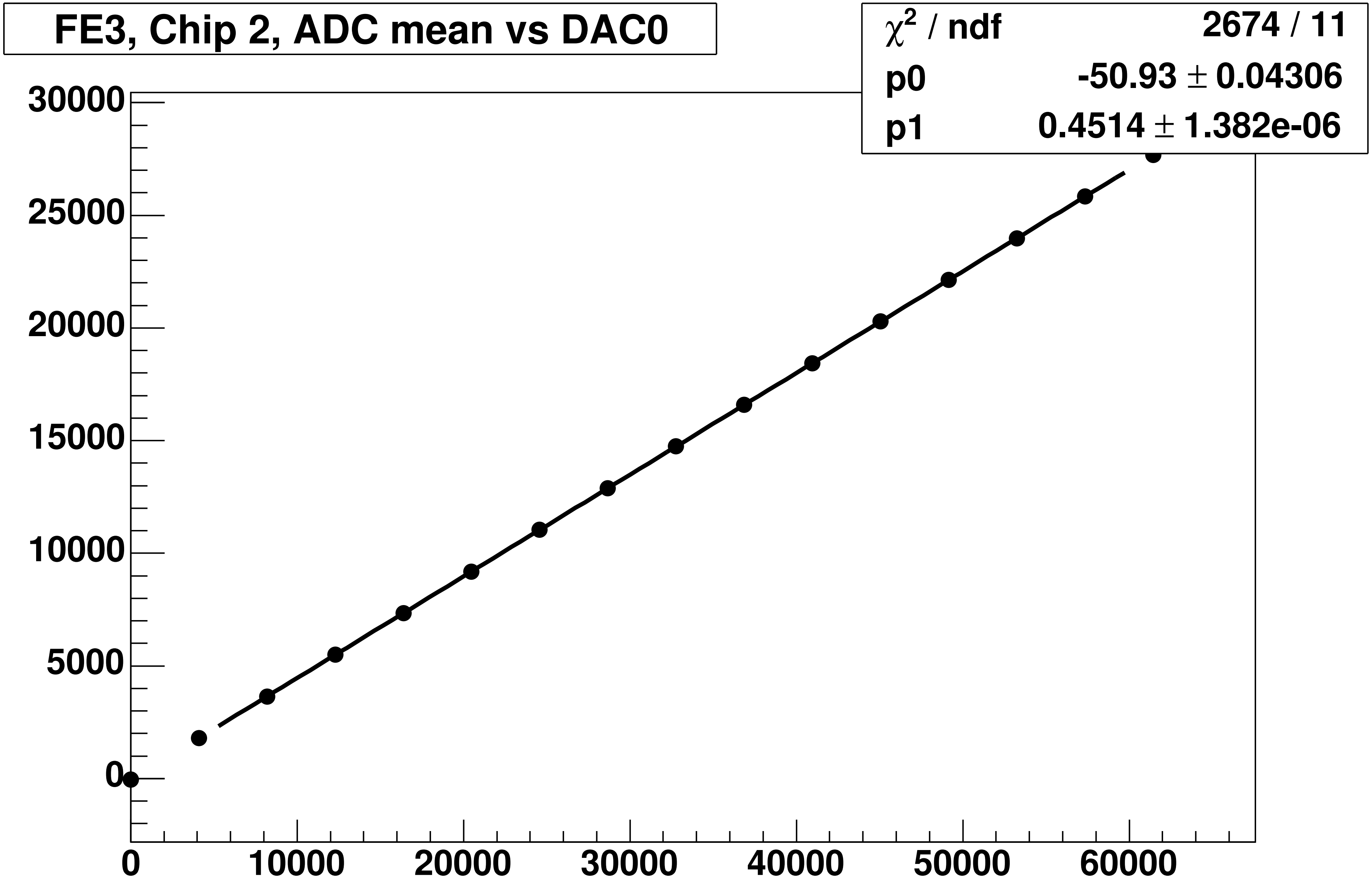


FE3, Chip 1, ADC mean vs DAC1
χ^2 / ndf 46.22 / 11
p0 -51.61 ± 0.04098
p1 -1.756e-07 ± 1.146e-06
-51.3
-51.4
-51.5
-51.6
-51.7
-51.8
0
10000
20000
30000
40000
50000
60000

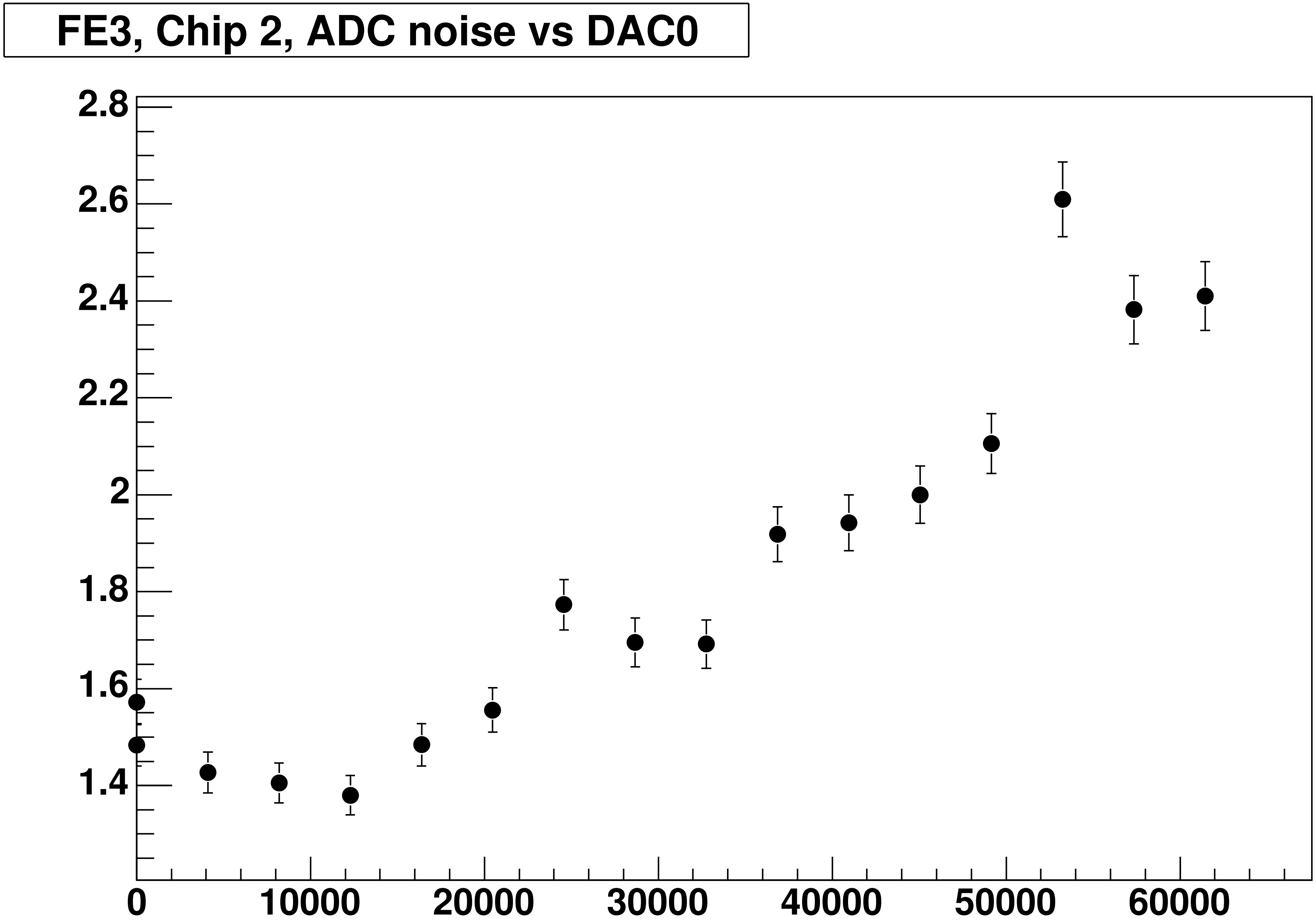


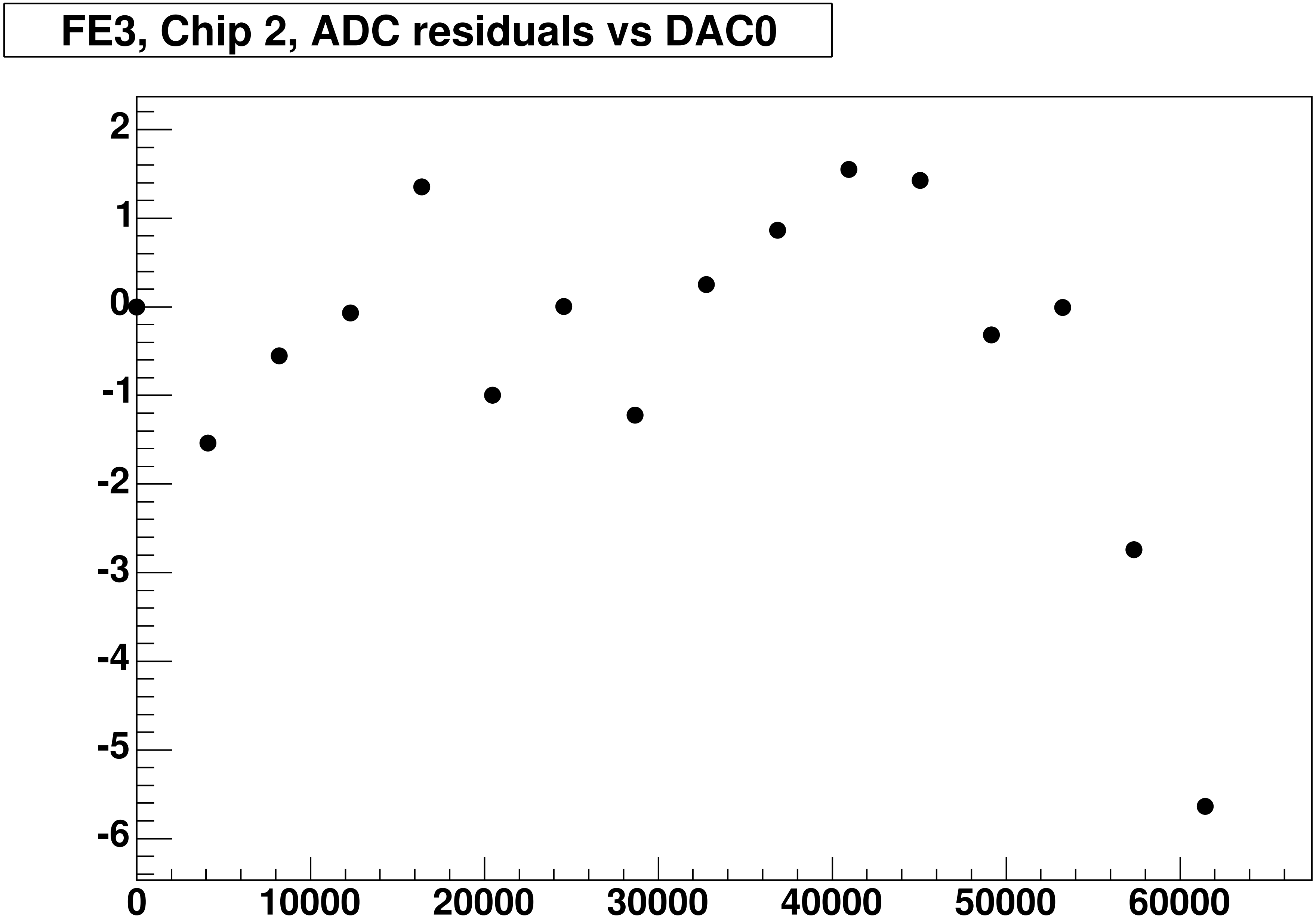
FE3, Chip 1, ADC noise vs DAC1
1.4
1.45
1.5
1.55
1.6
1.65
0
10000
20000
30000
40000
50000
60000

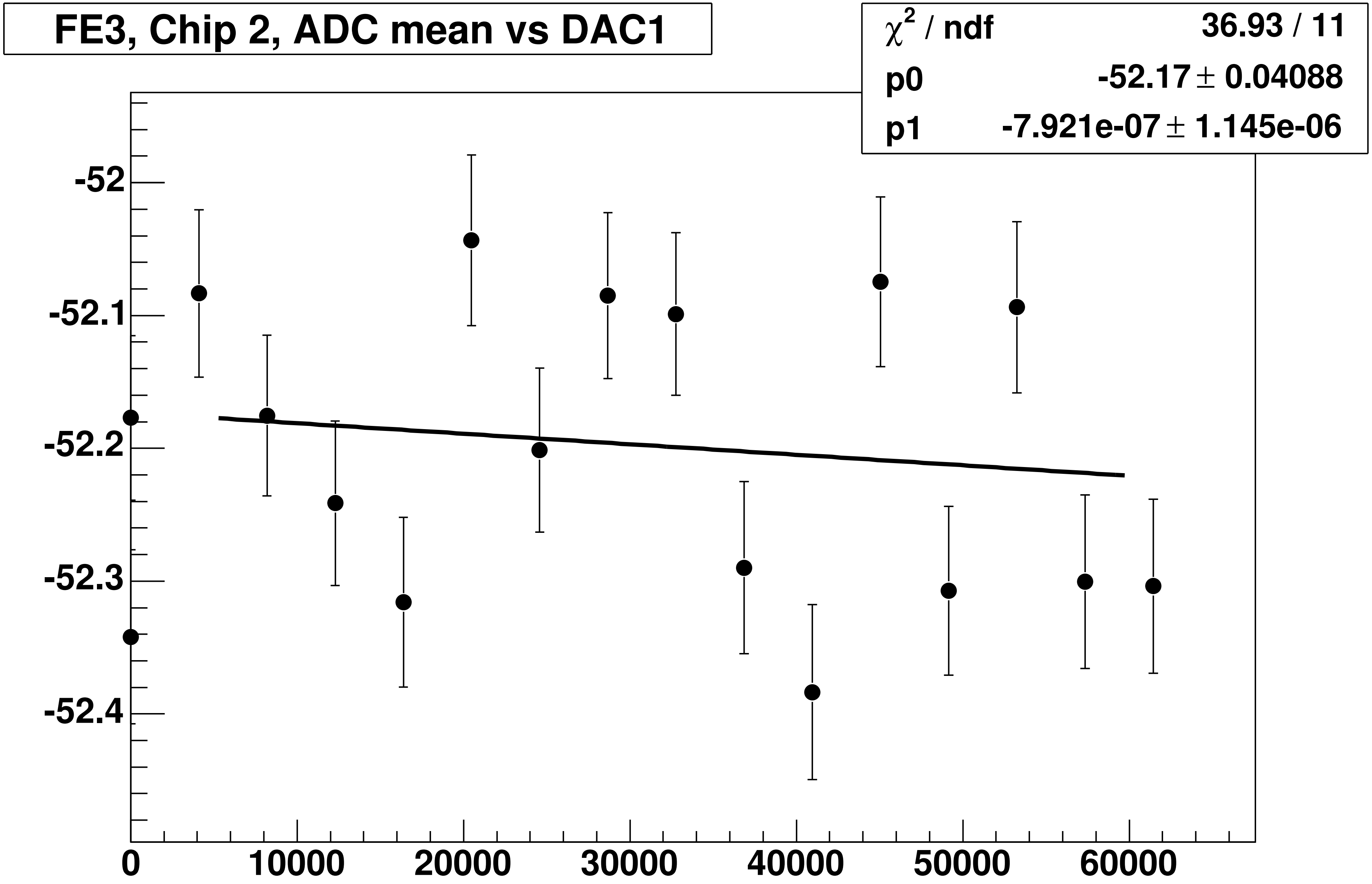

FE3, Chip 1, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

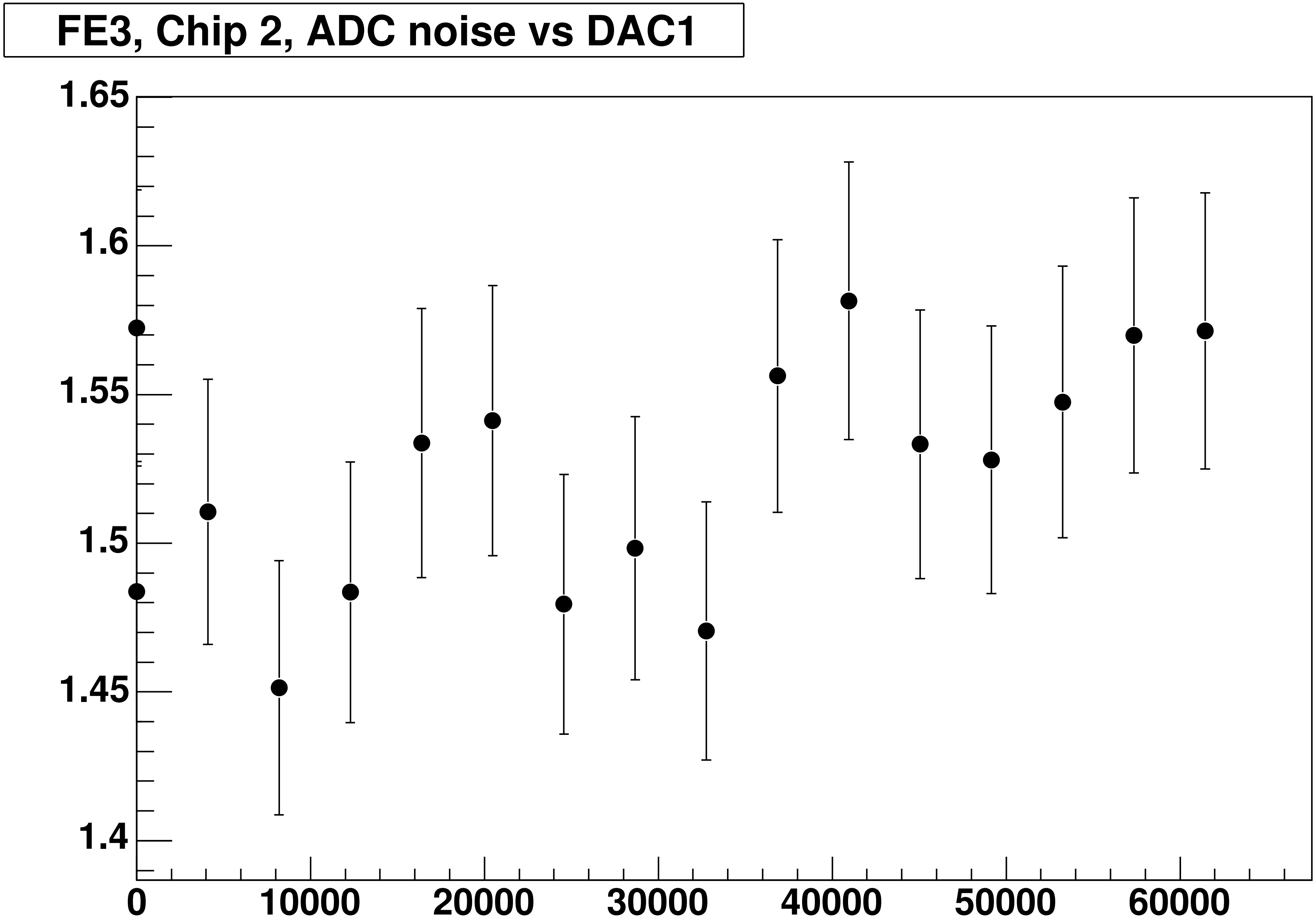


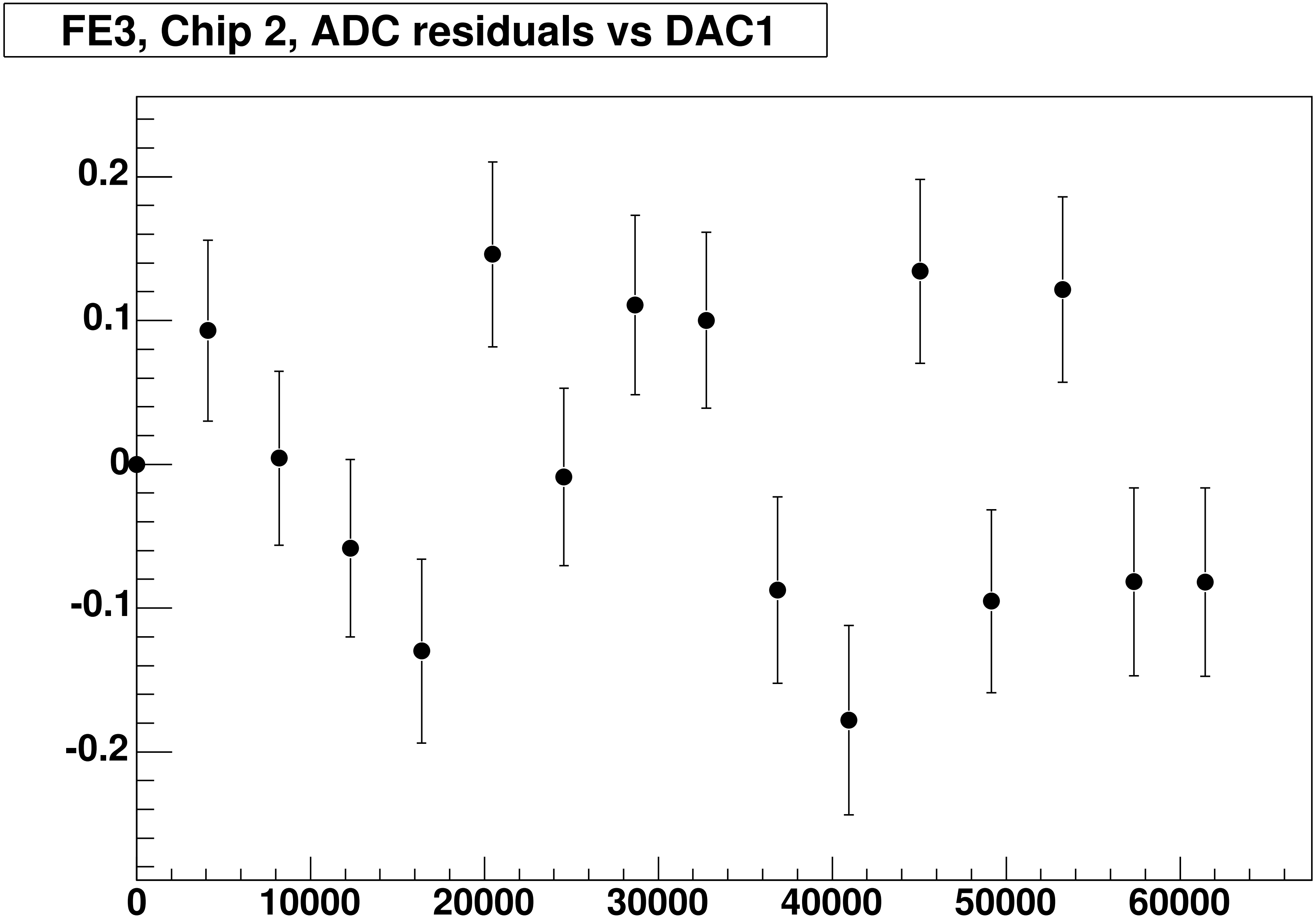
FE3, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2674 / 11
p0 -50.93 ± 0.04306
p1 0.4514 ± 1.382e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

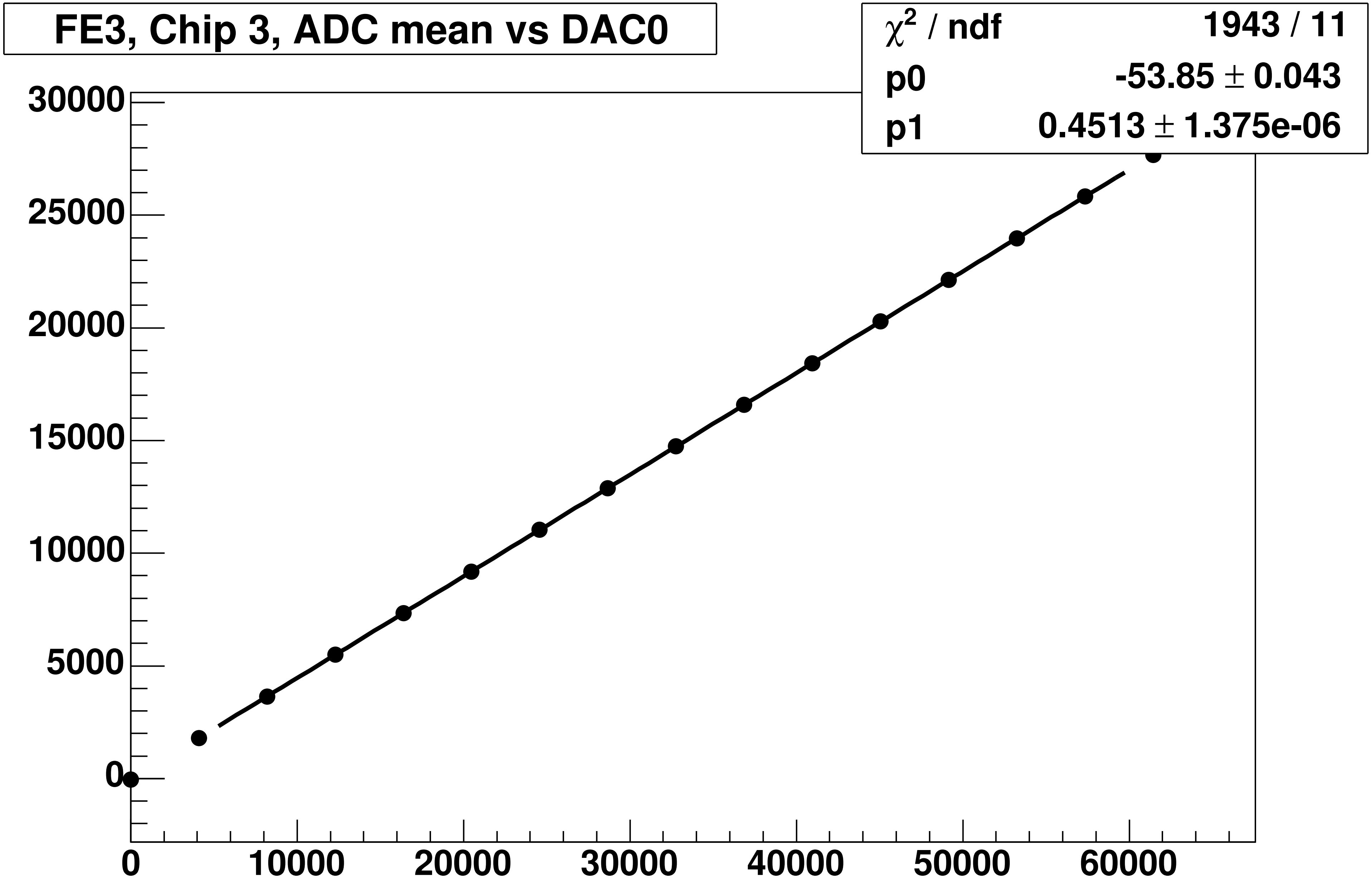

FE3, Chip 2, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

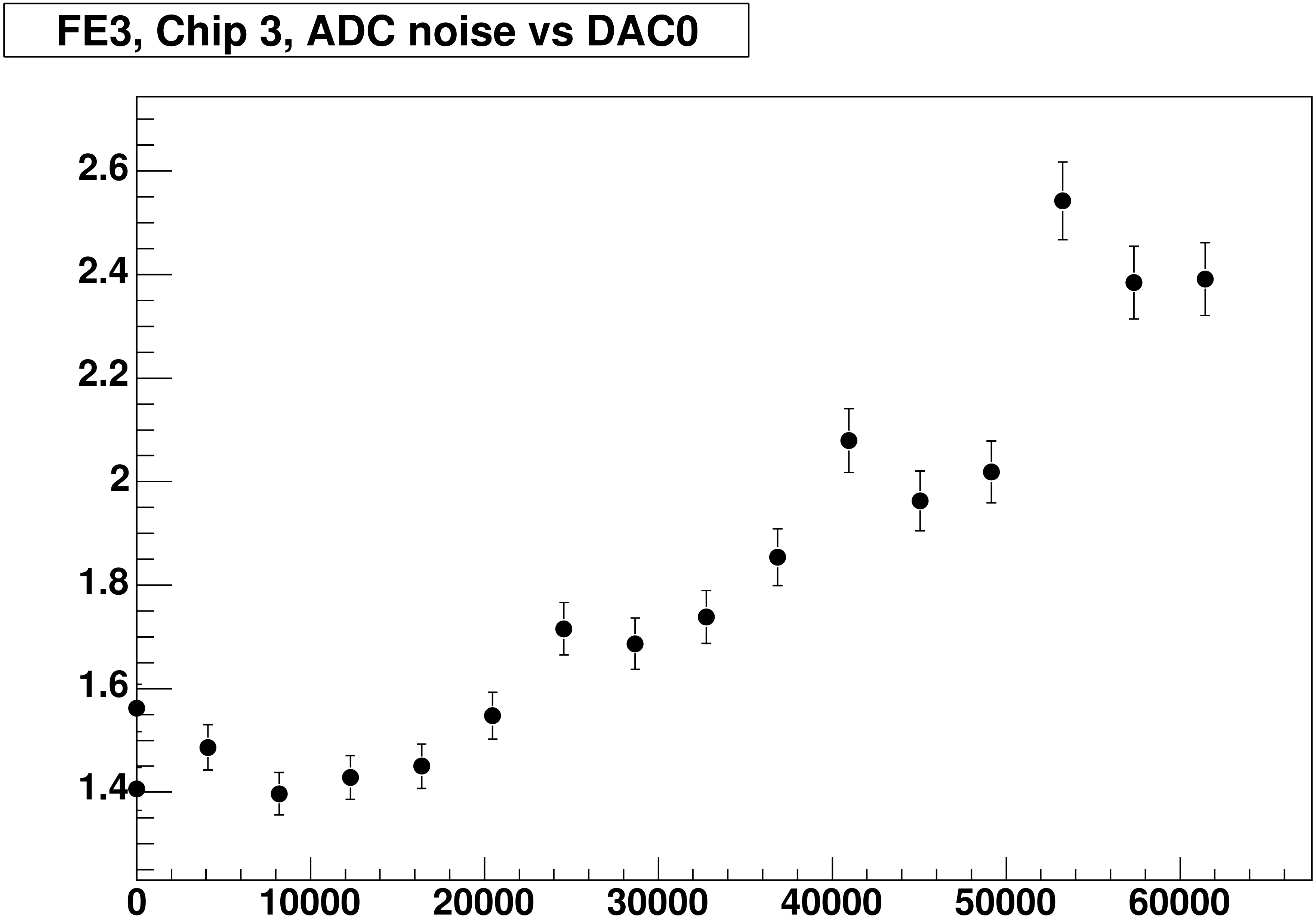

FE3, Chip 2, ADC mean vs DAC1
χ^2 / ndf 36.93 / 11
p0 -52.17 ± 0.04088
p1 -7.921e-07 ± 1.145e-06
-52
-52.1
-52.2
-52.3
-52.4
0
10000
20000
30000
40000
50000
60000


FE3, Chip 2, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

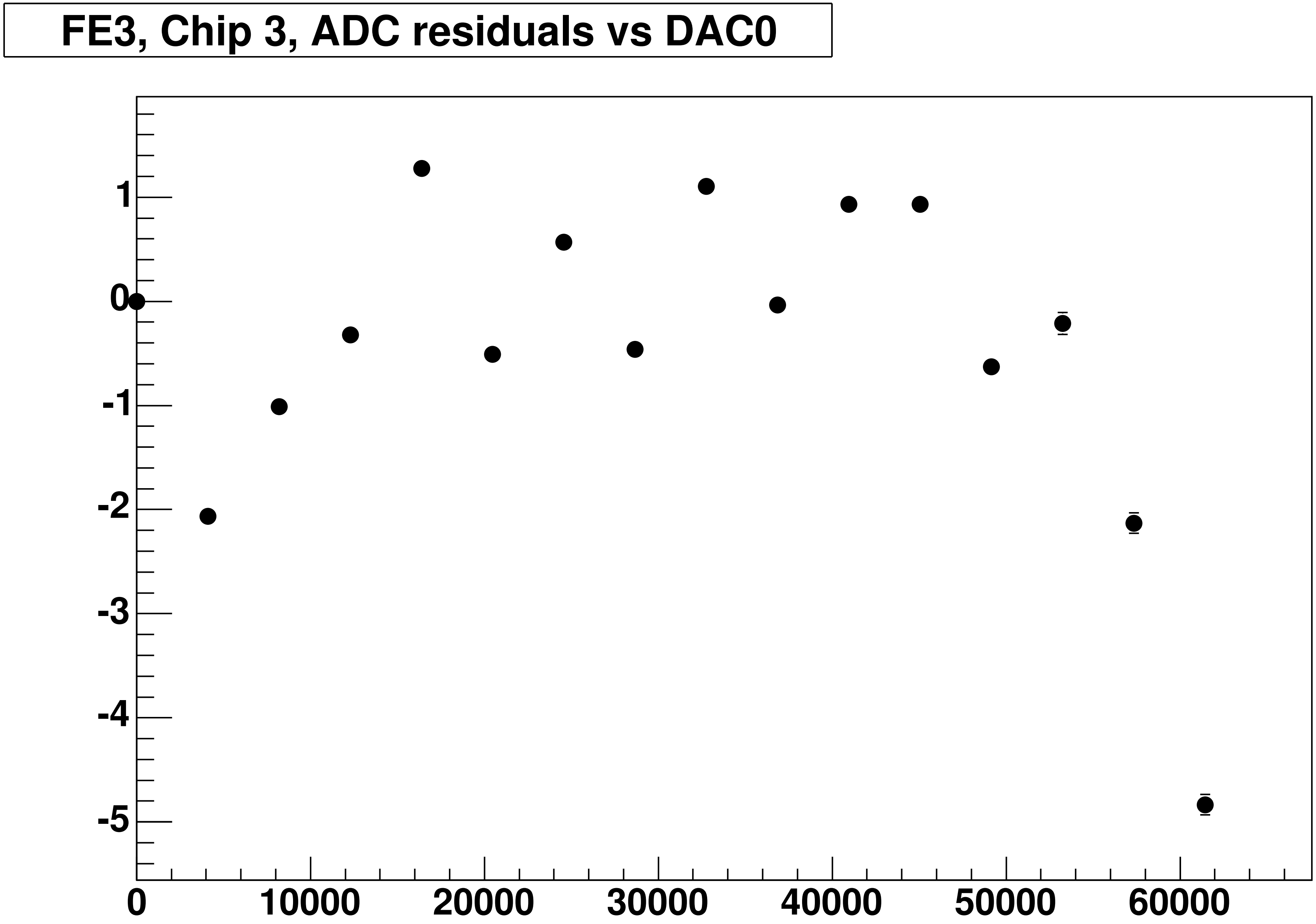

FE3, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

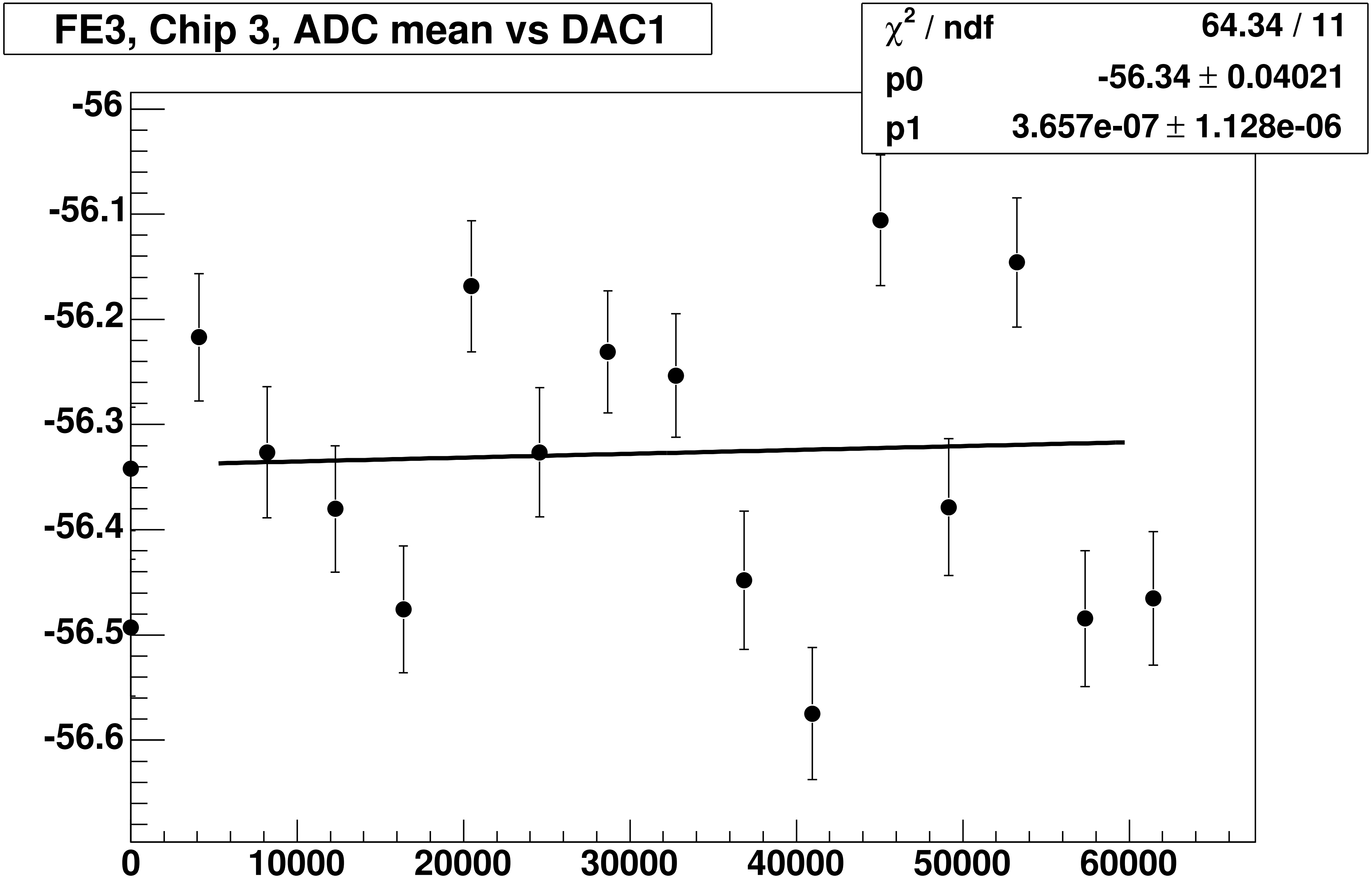


FE3, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1943 / 11
p0 -53.85 ± 0.043
p1 0.4513 ± 1.375e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

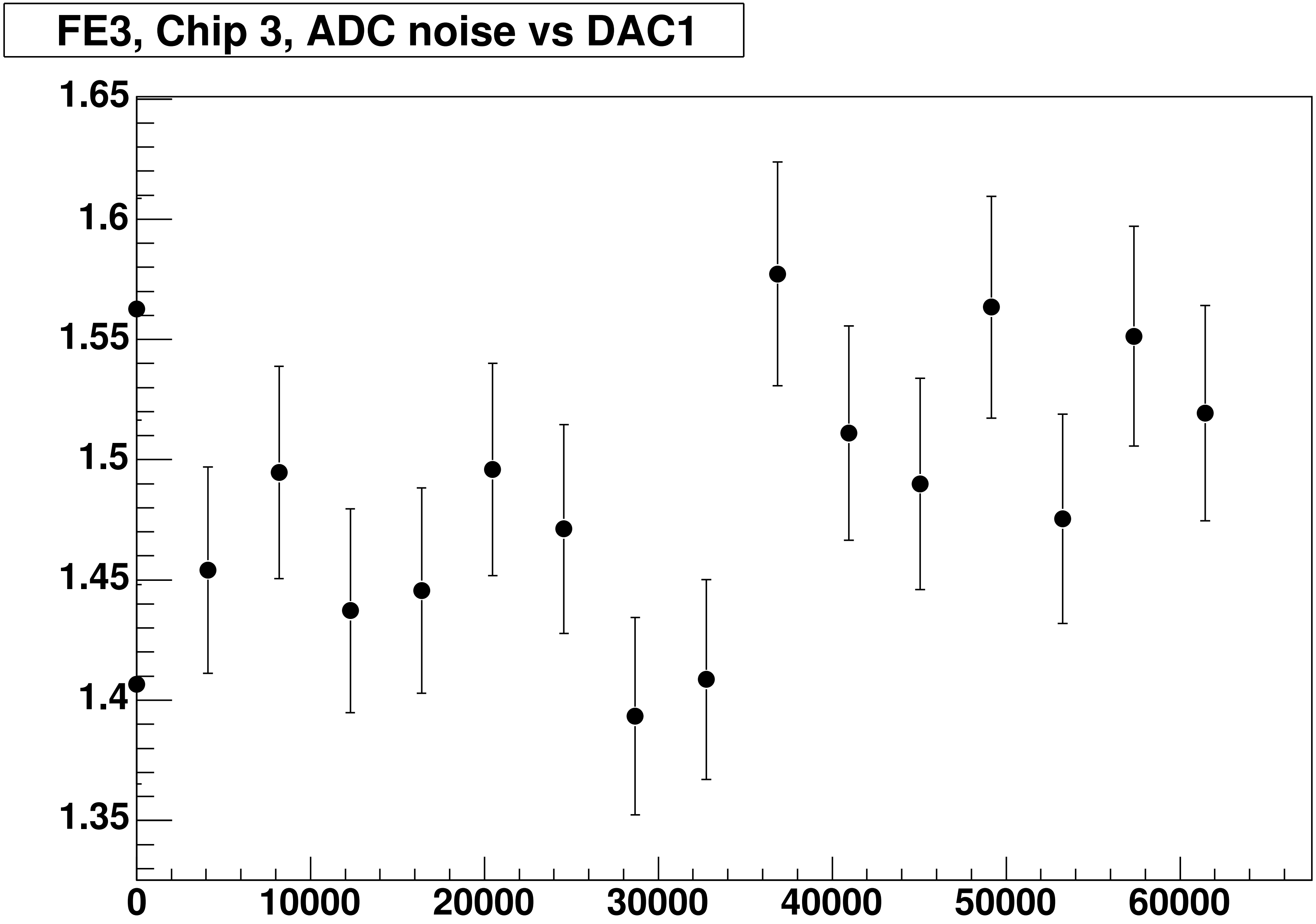


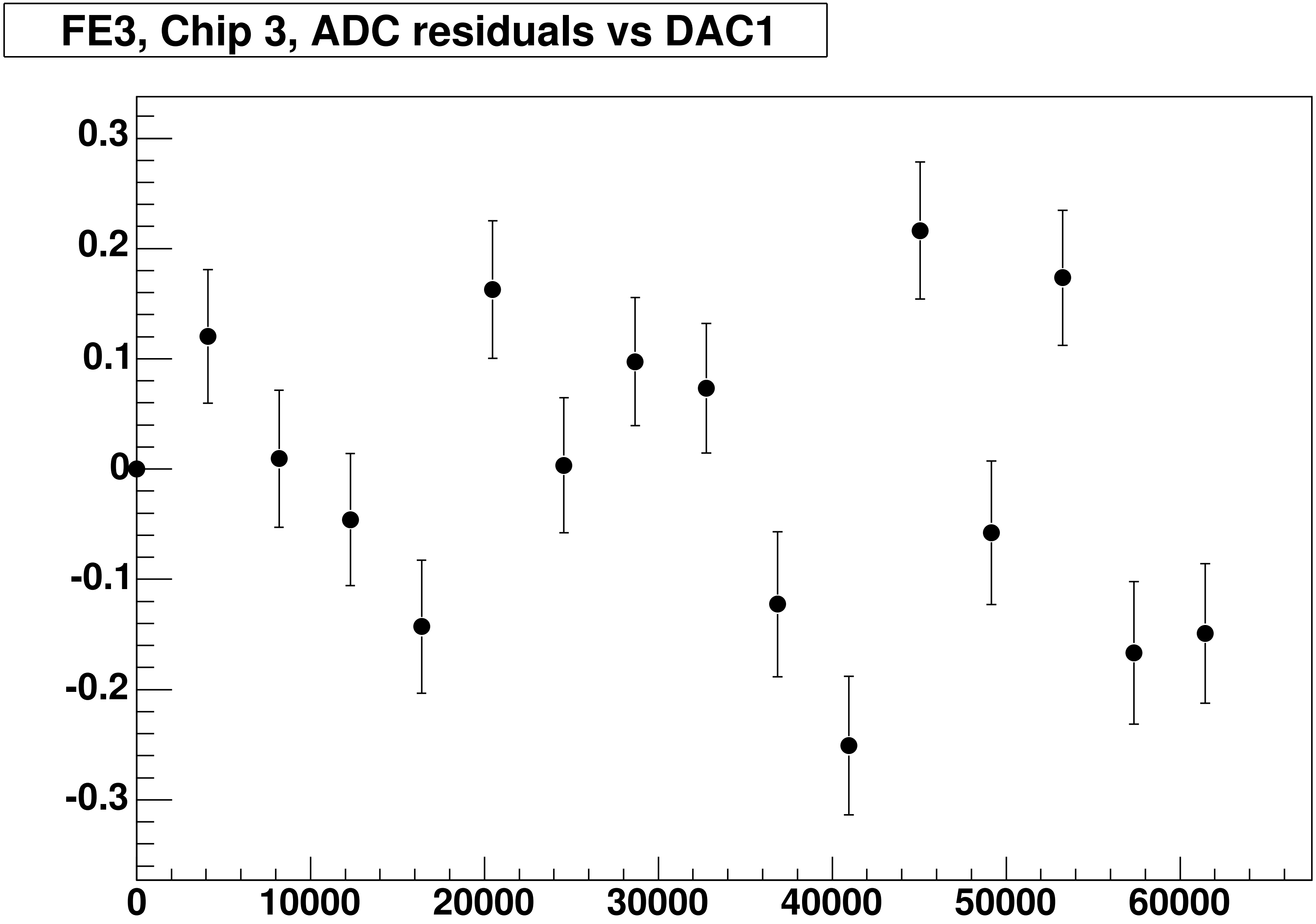
FE3, Chip 3, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

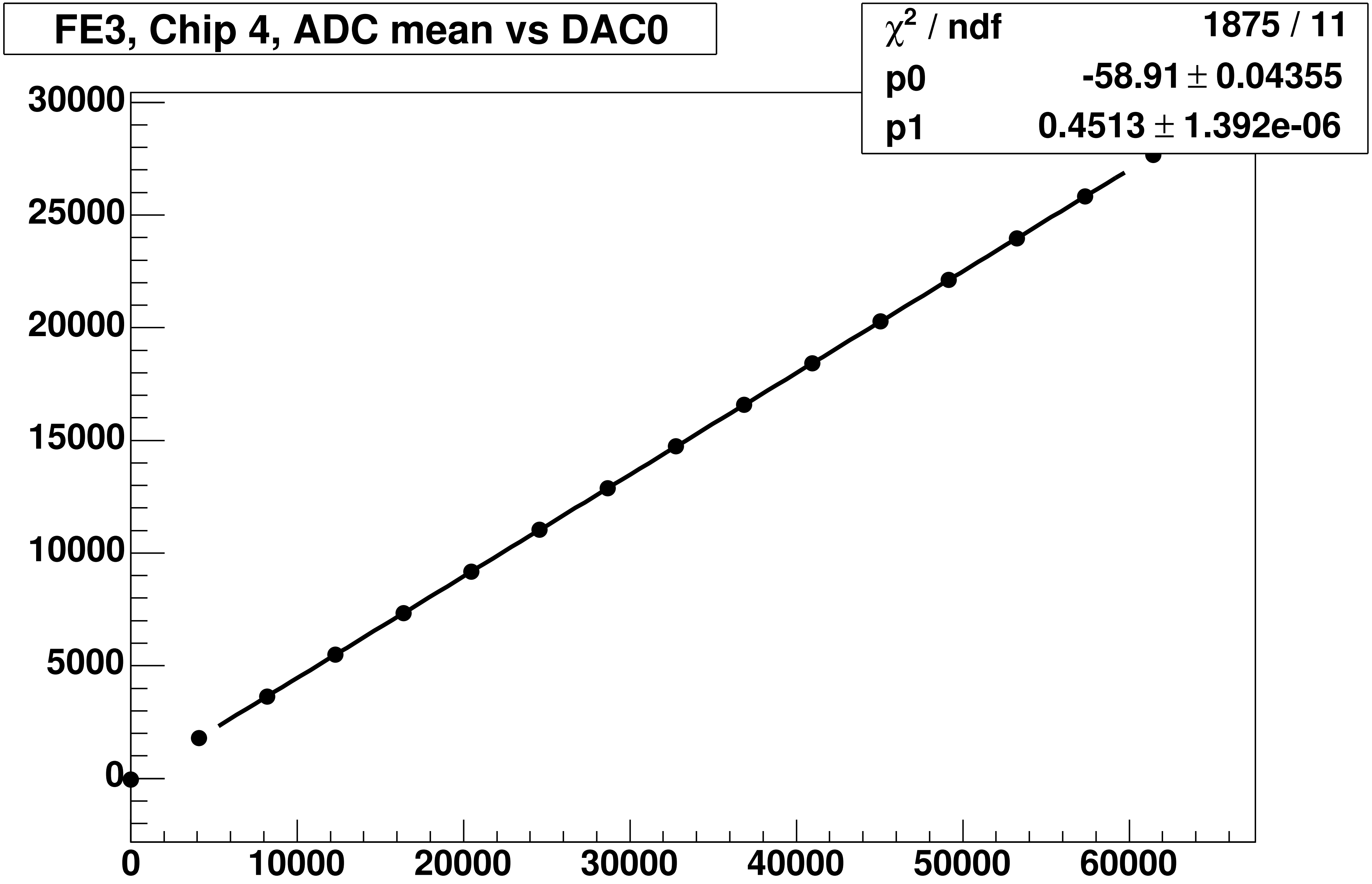


FE3, Chip 3, ADC mean vs DAC1
χ^2 / ndf 64.34 / 11
p0 -56.34 ± 0.04021
p1 3.657e-07 ± 1.128e-06
-56
-56.1
-56.2
-56.3
-56.4
-56.5
-56.6
0
10000
20000
30000
40000
50000
60000

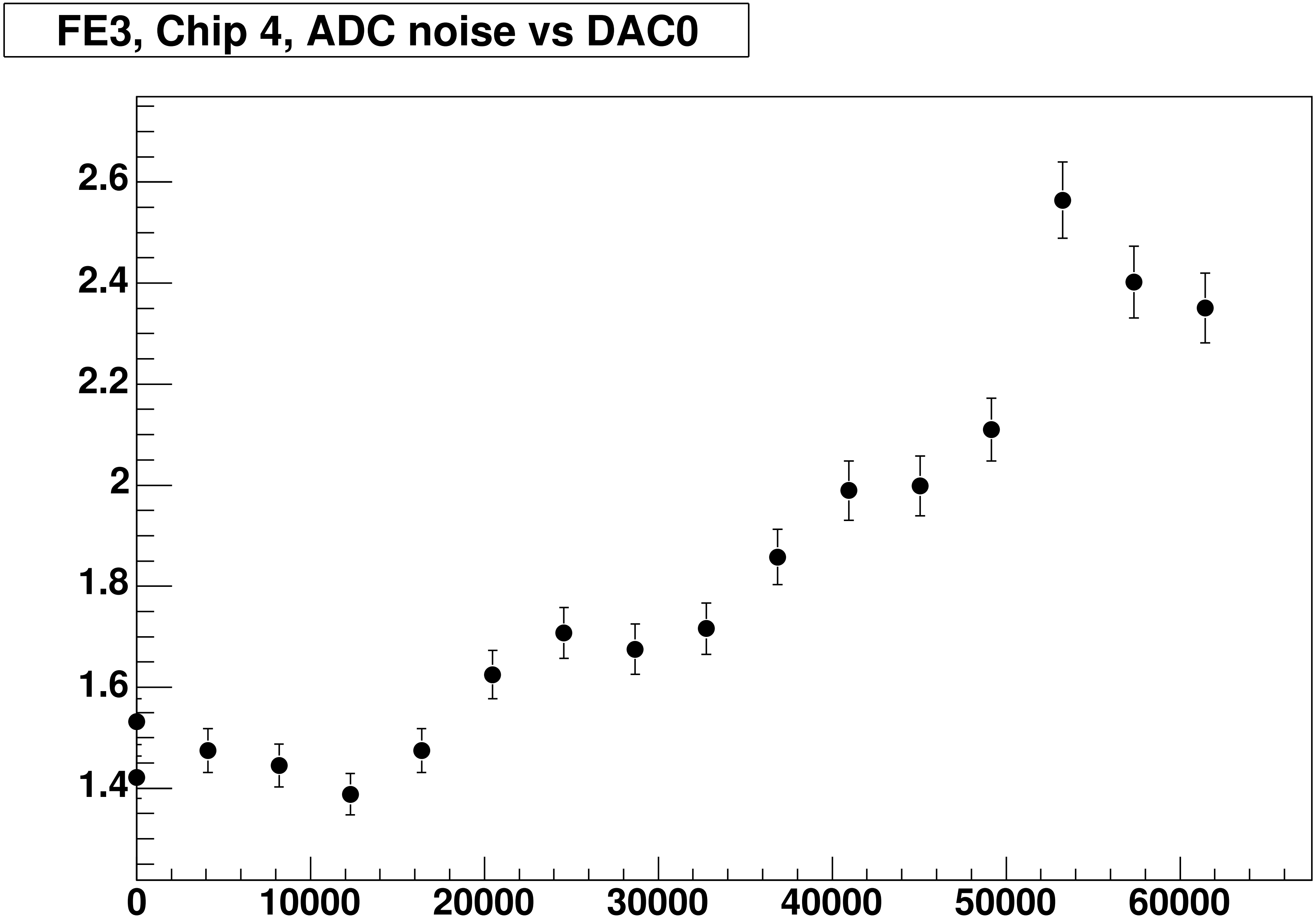

FE3, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



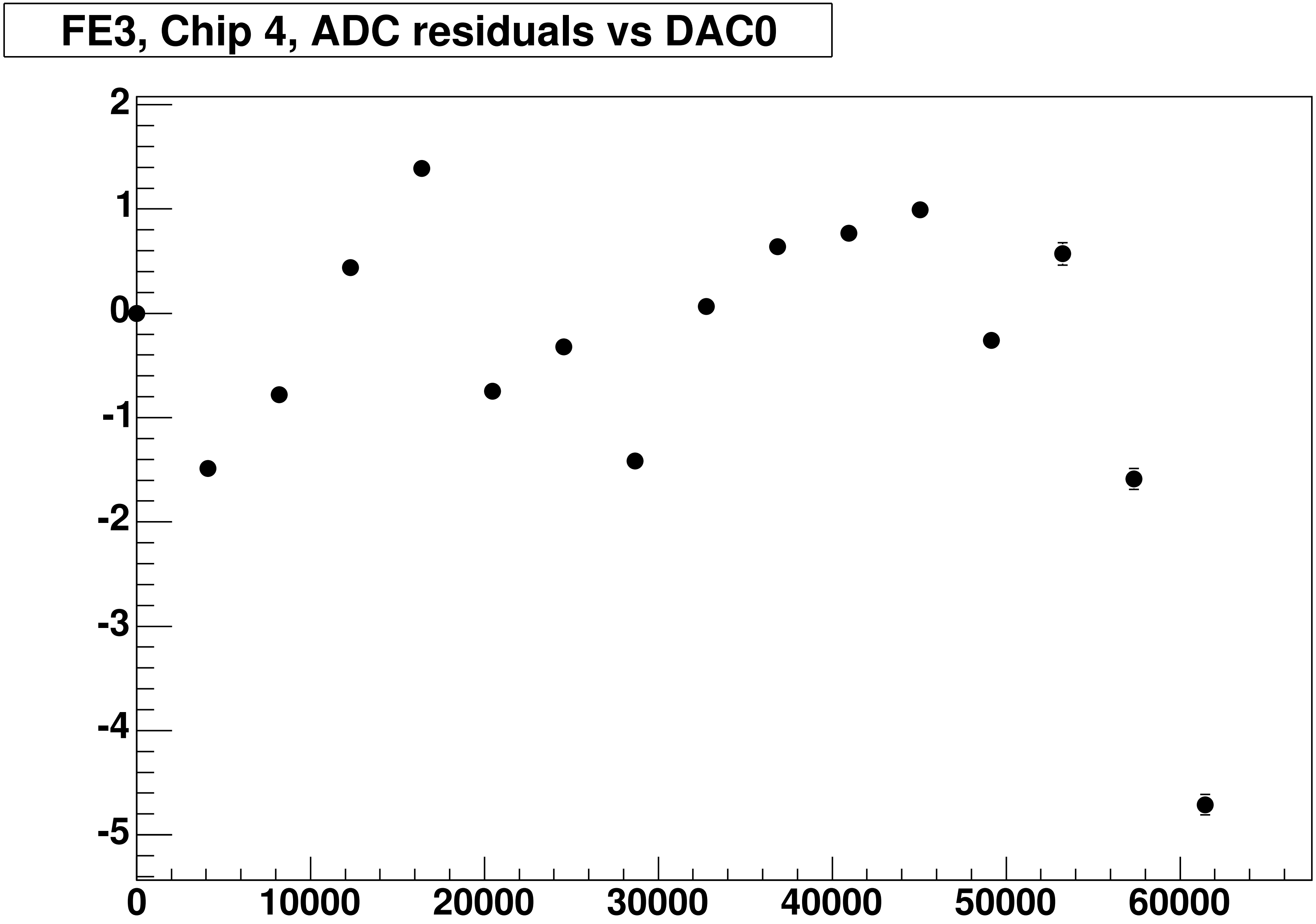
FE3, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



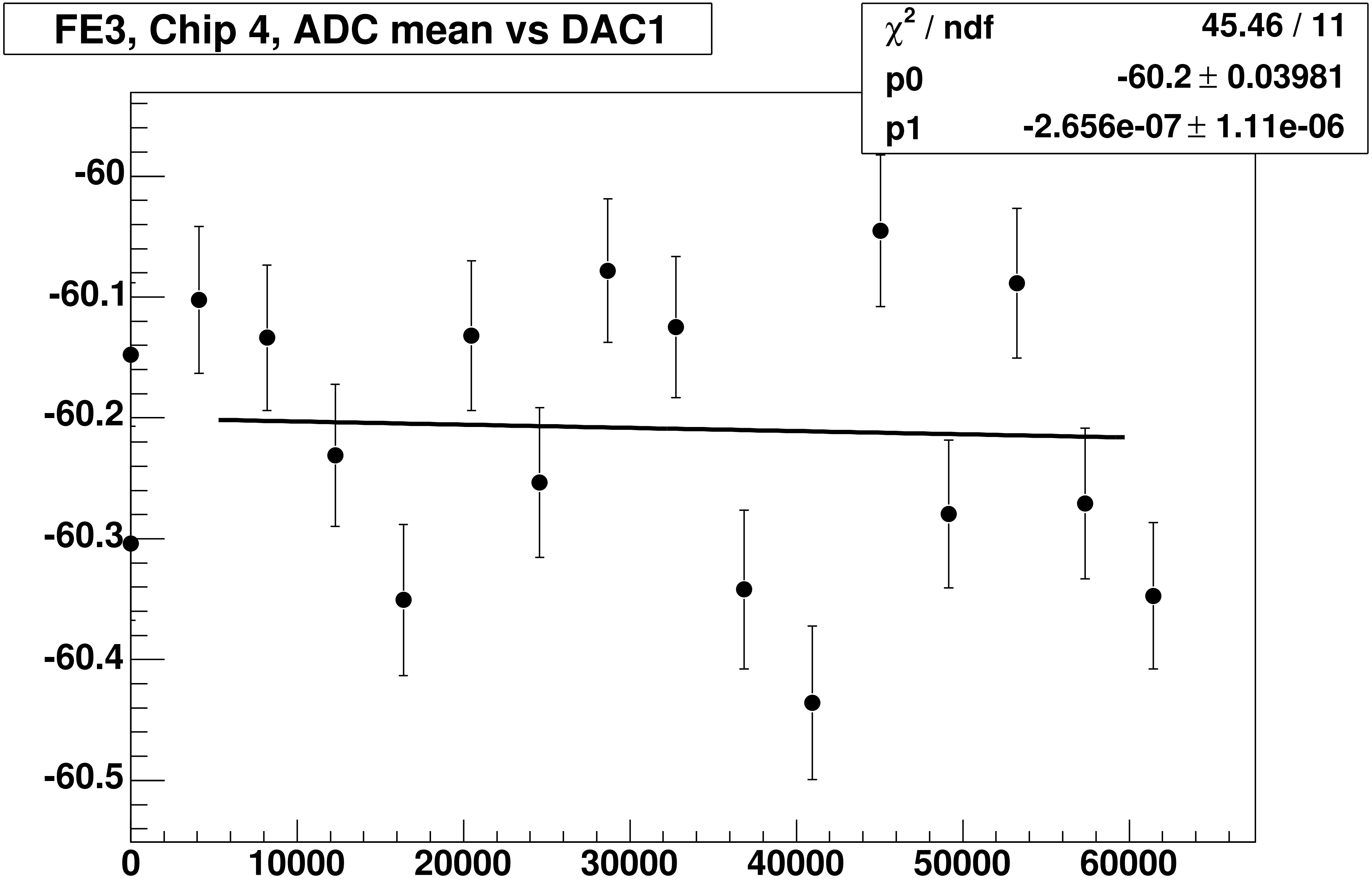
FE3, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1875 / 11
p0 -58.91 ± 0.04355
p1 0.4513 ± 1.392e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



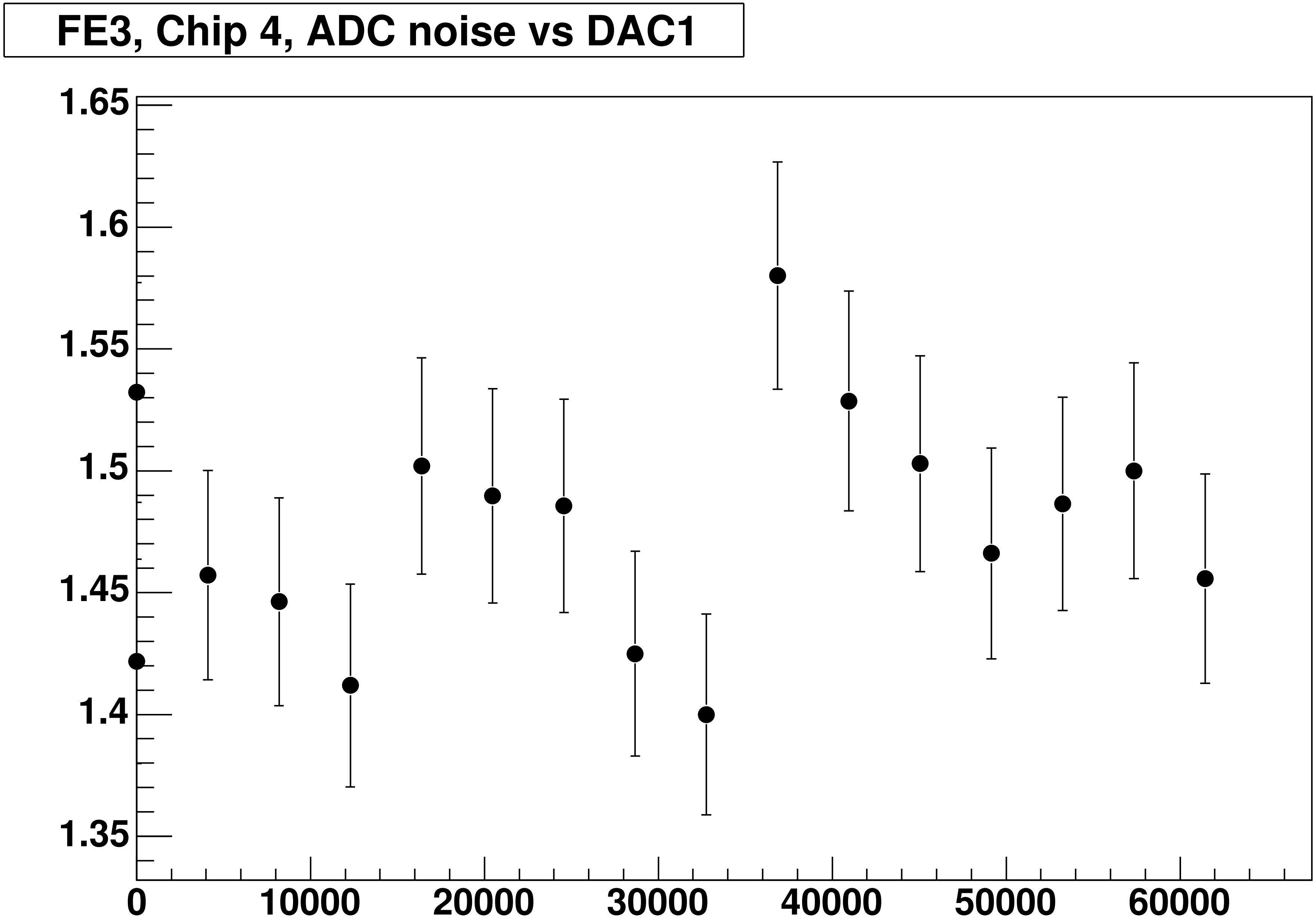
FE3, Chip 4, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

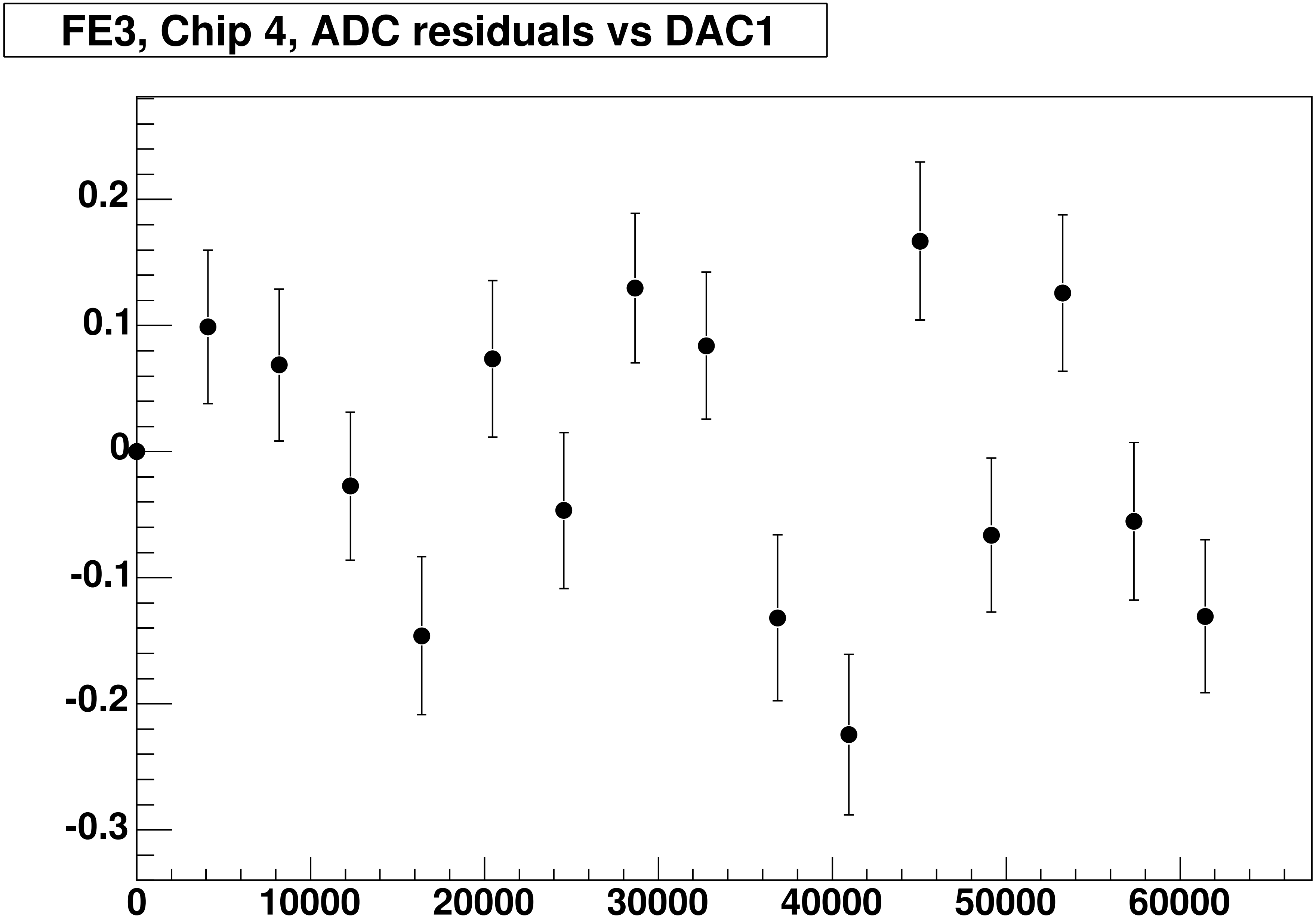


FE3, Chip 4, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

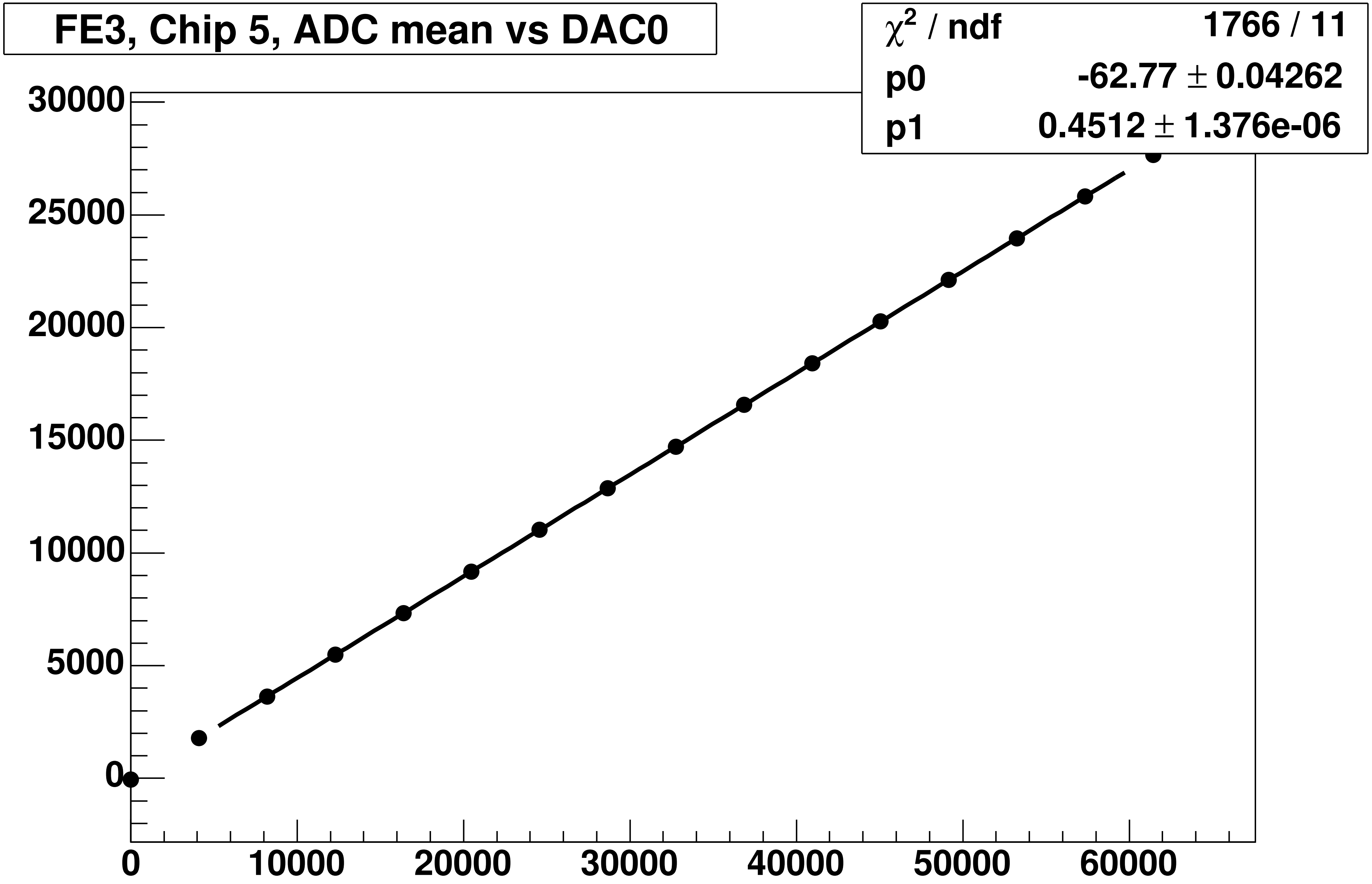


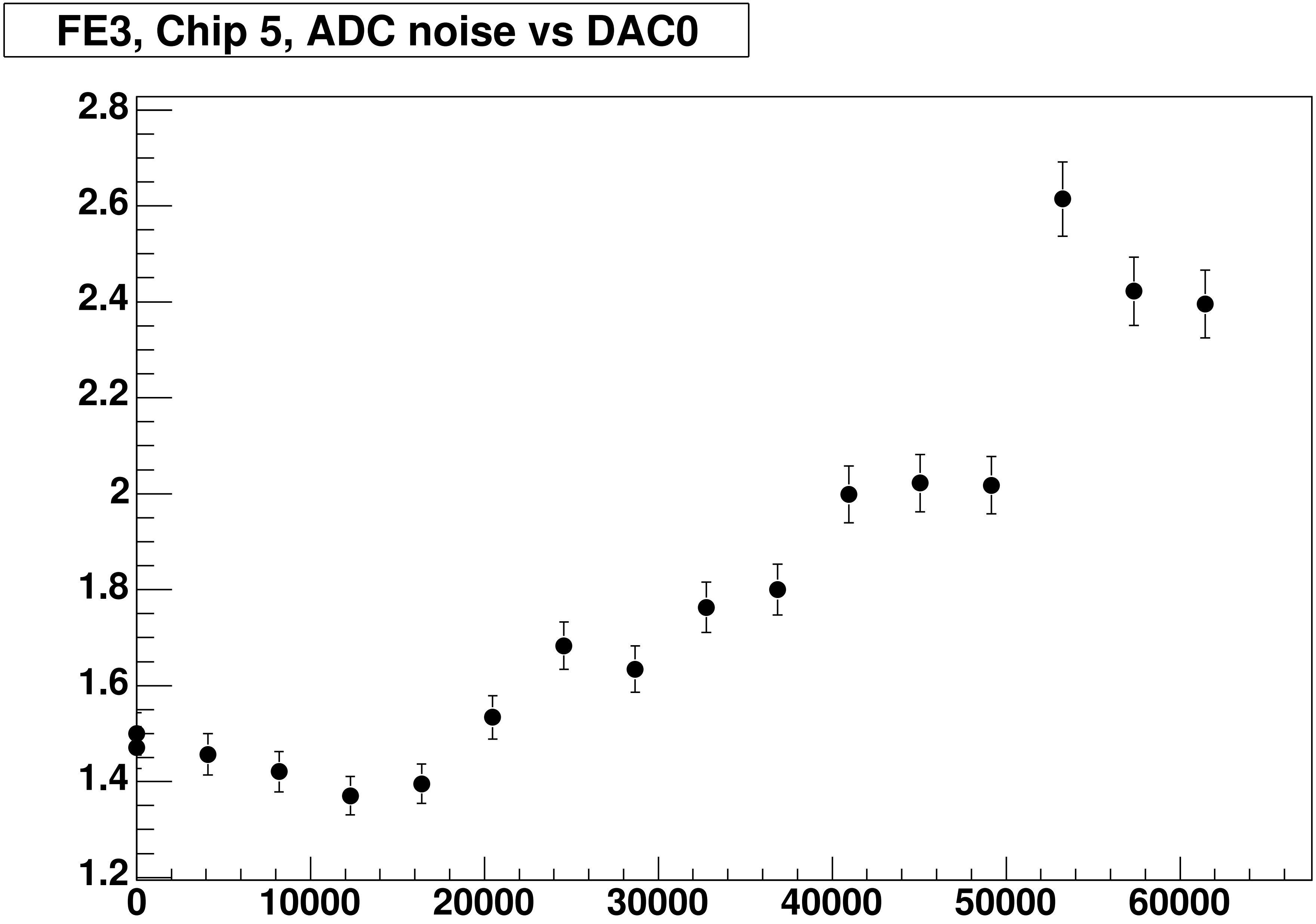
FE3, Chip 4, ADC mean vs DAC1
χ^2 / ndf 45.46 / 11
p0 -60.2 ± 0.03981
p1 -2.656e-07 ± 1.11e-06
-60
-60.1
-60.2
-60.3
-60.4
-60.5
0
10000
20000
30000
40000
50000
60000

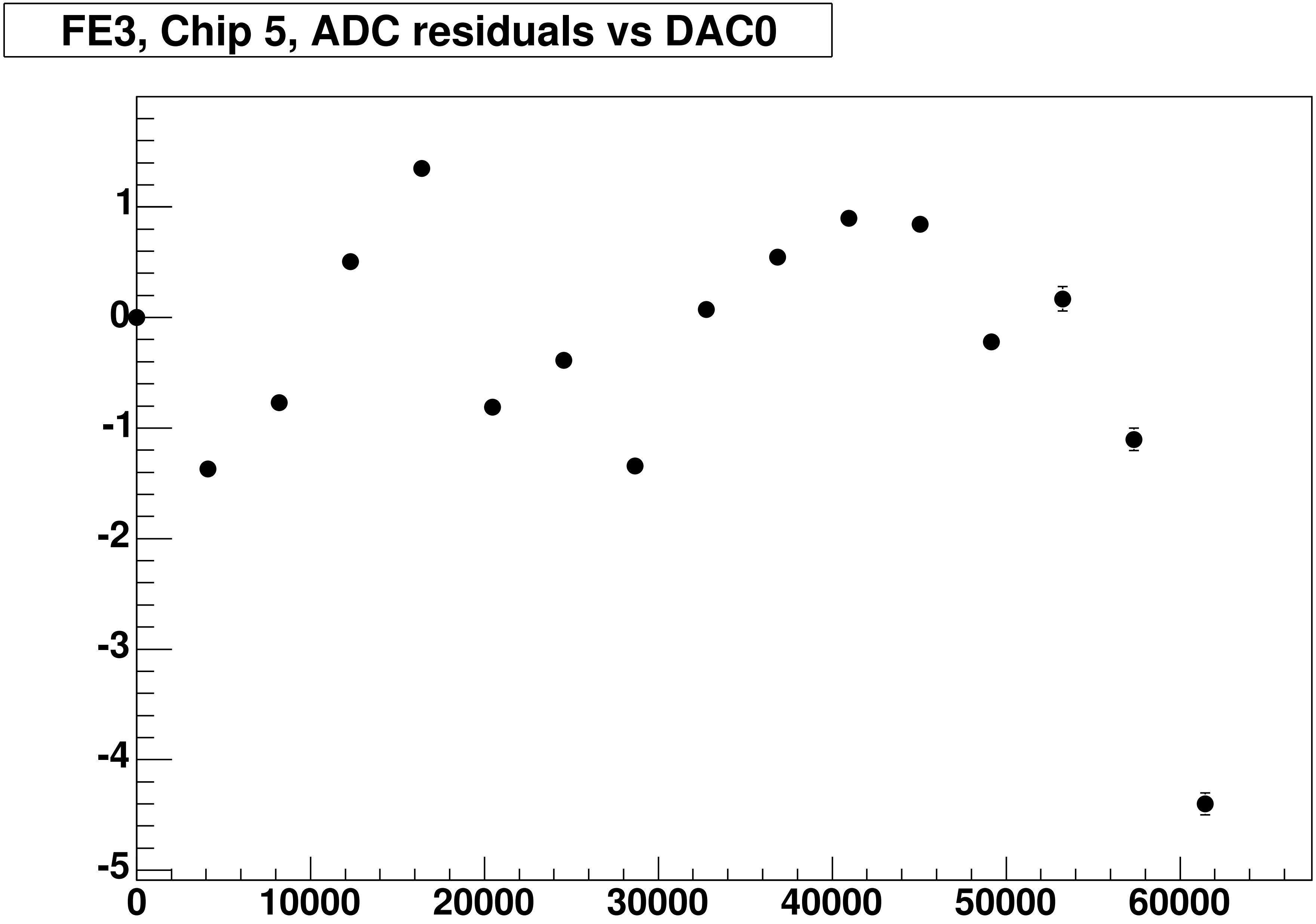

FE3, Chip 4, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



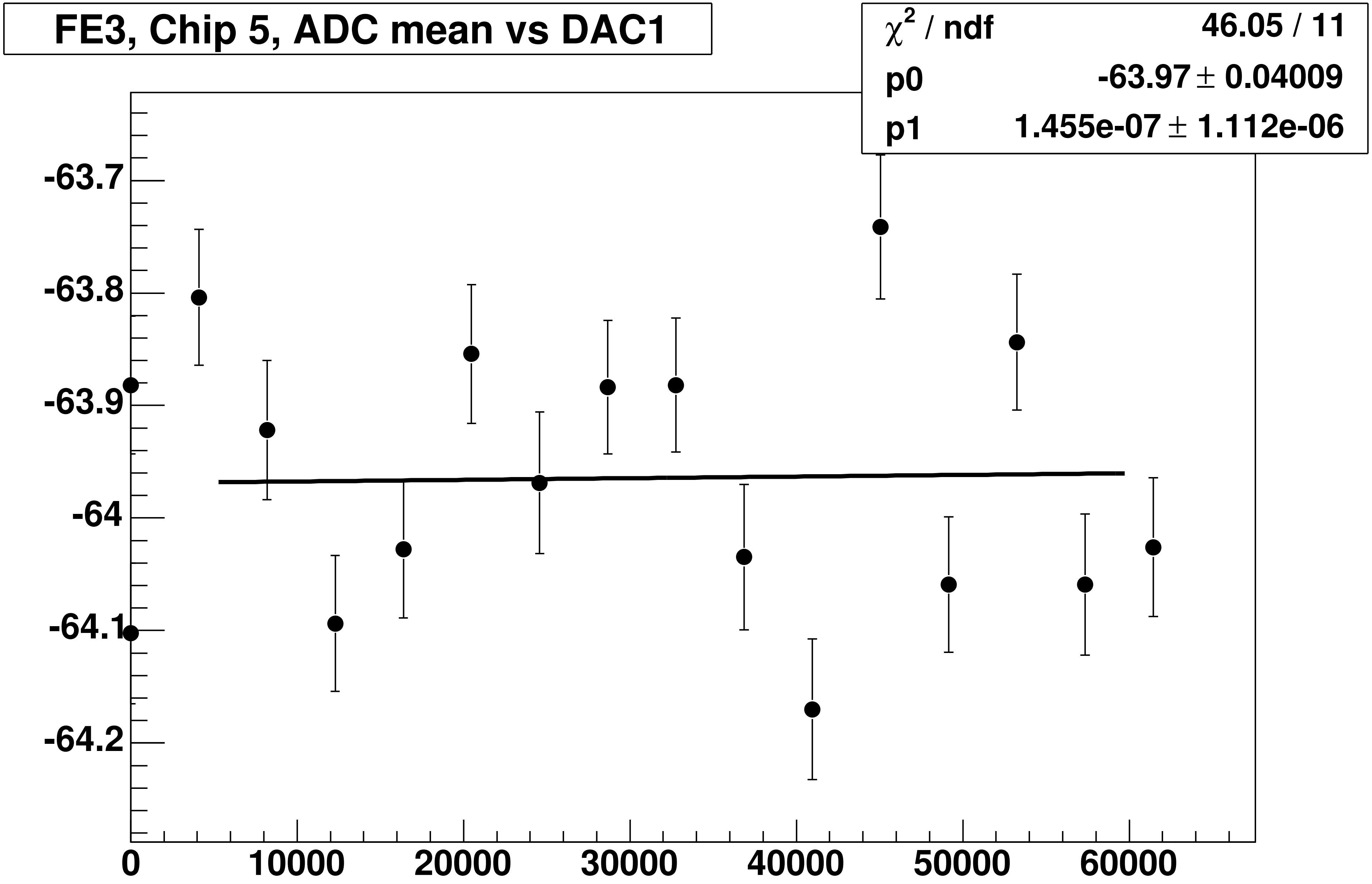
FE3, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000


FE3, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1766 / 11
p0 -62.77 ± 0.04262
p1 0.4512 ± 1.376e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

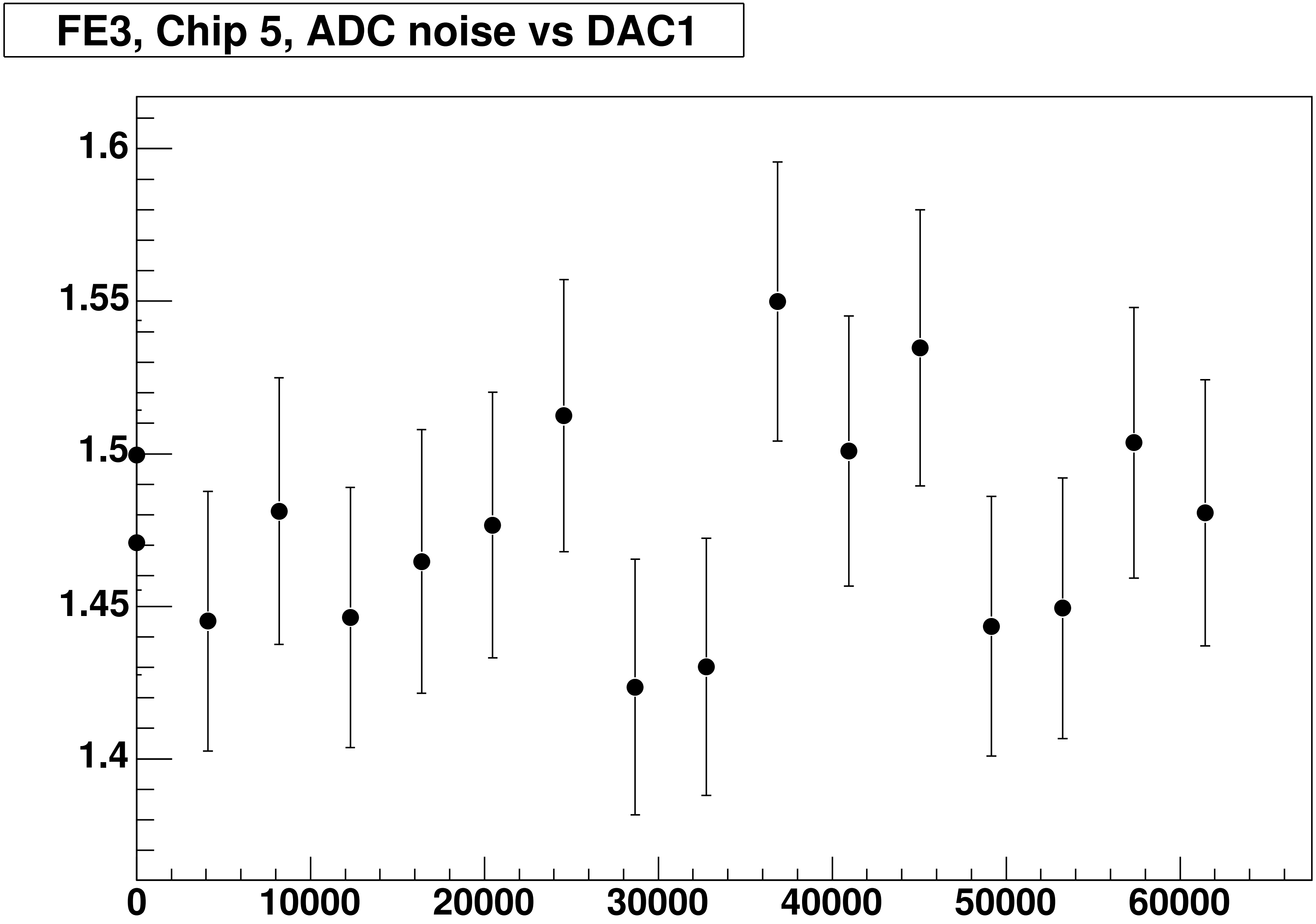

FE3, Chip 5, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



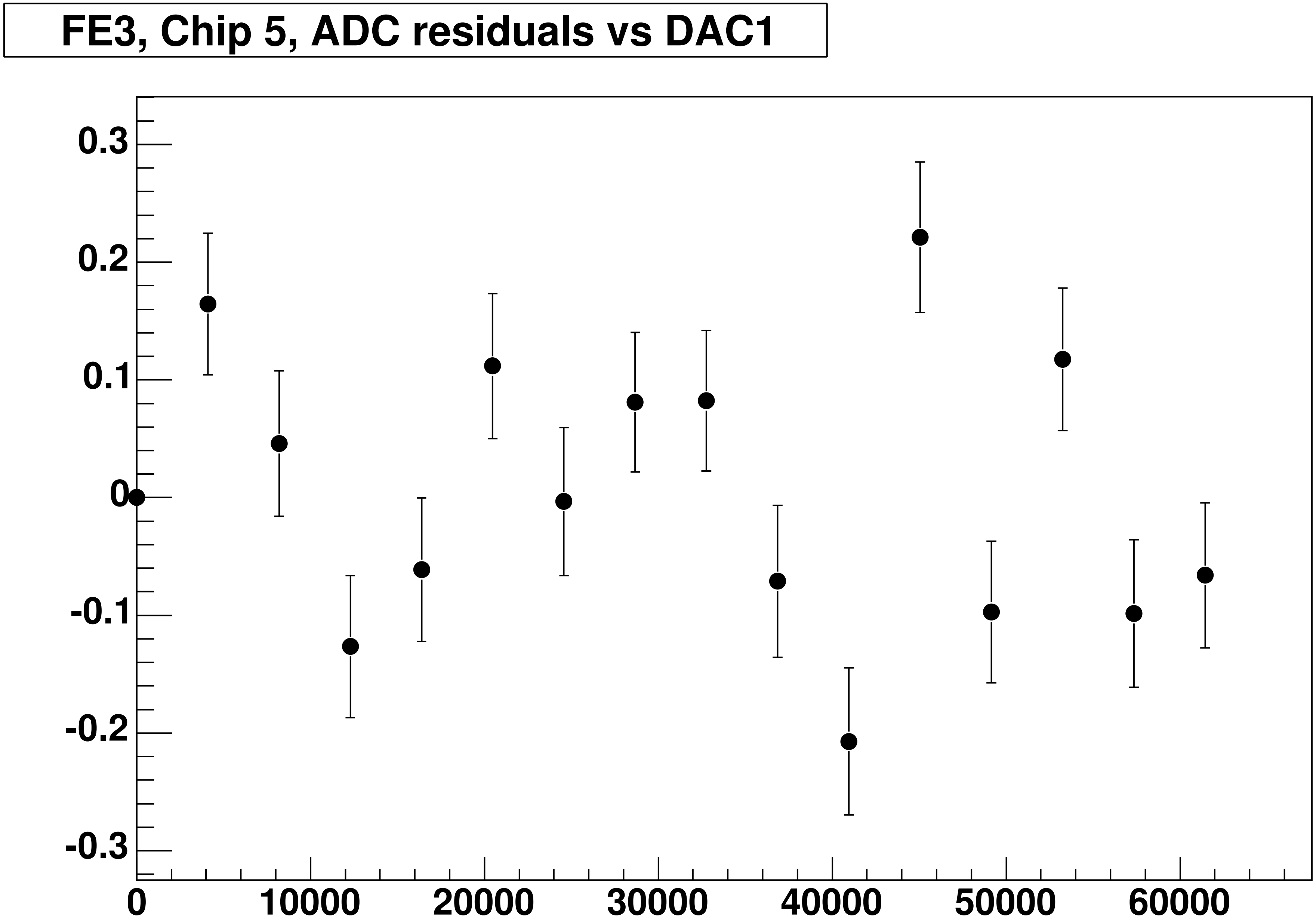
FE3, Chip 5, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



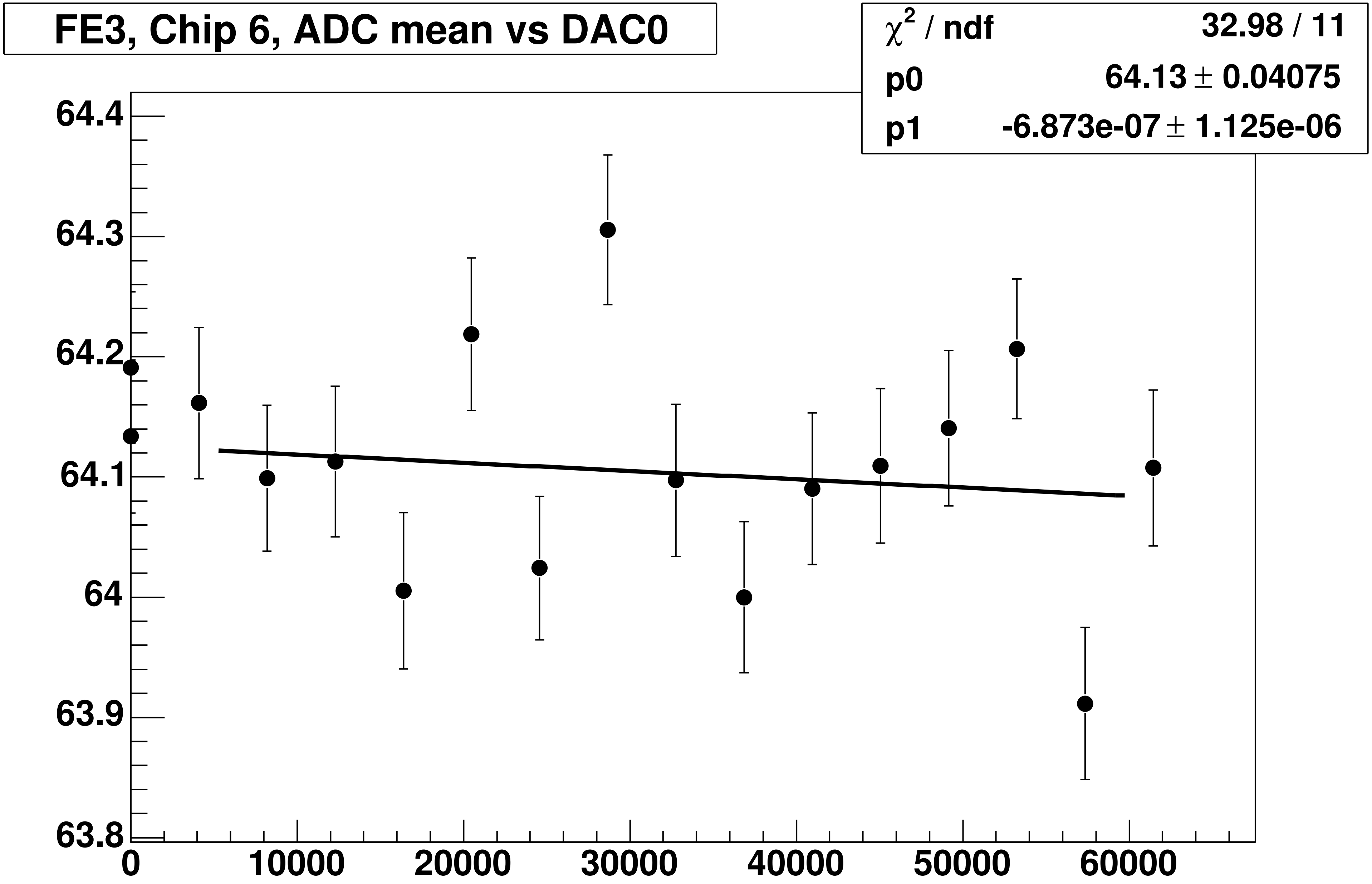
FE3, Chip 5, ADC mean vs DAC1
χ^2 / ndf 46.05 / 11
p0 -63.97 ± 0.04009
p1 1.455e-07 ± 1.112e-06
-63.7
-63.8
-63.9
-64
-64.1
-64.2
0
10000
20000
30000
40000
50000
60000

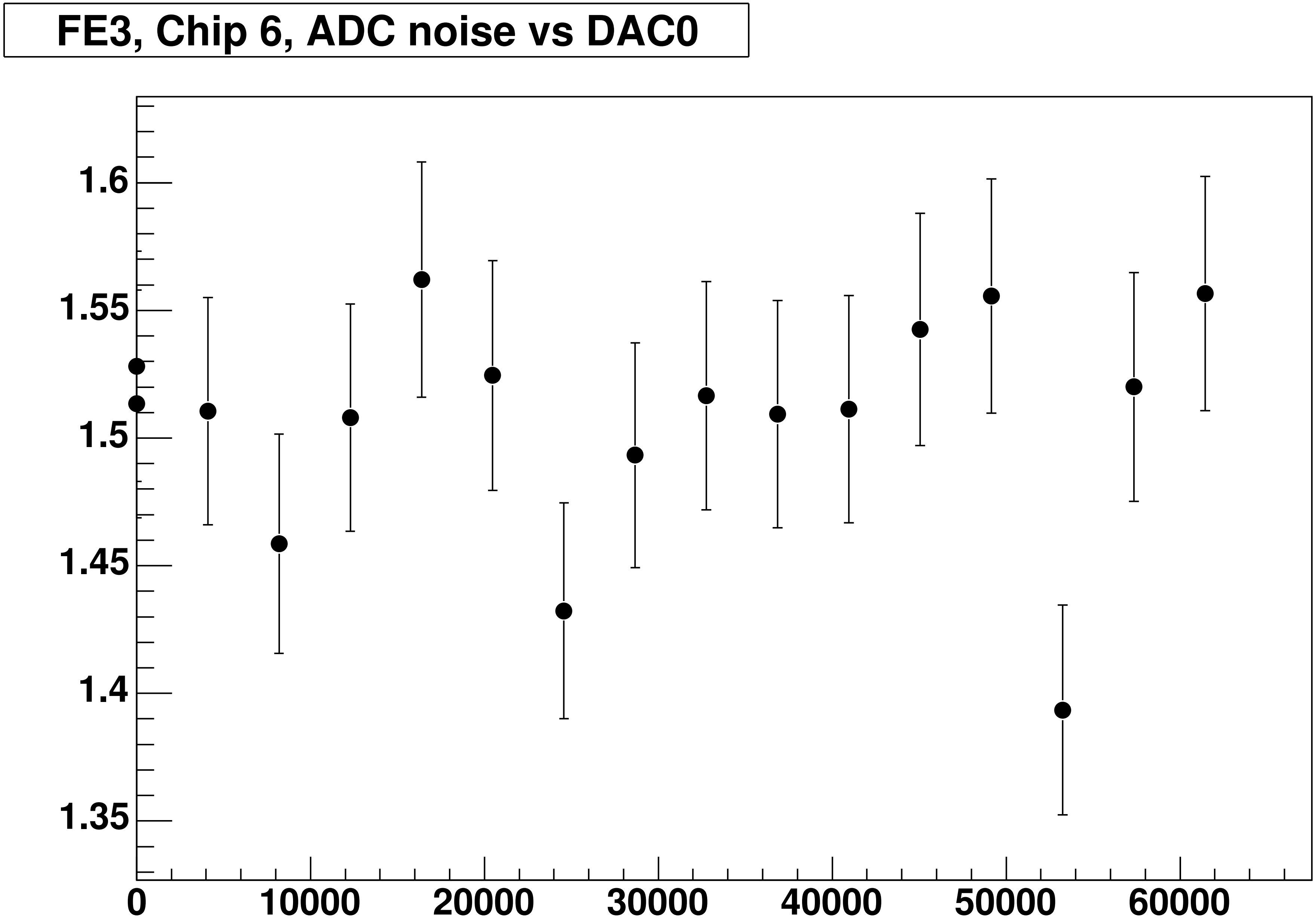


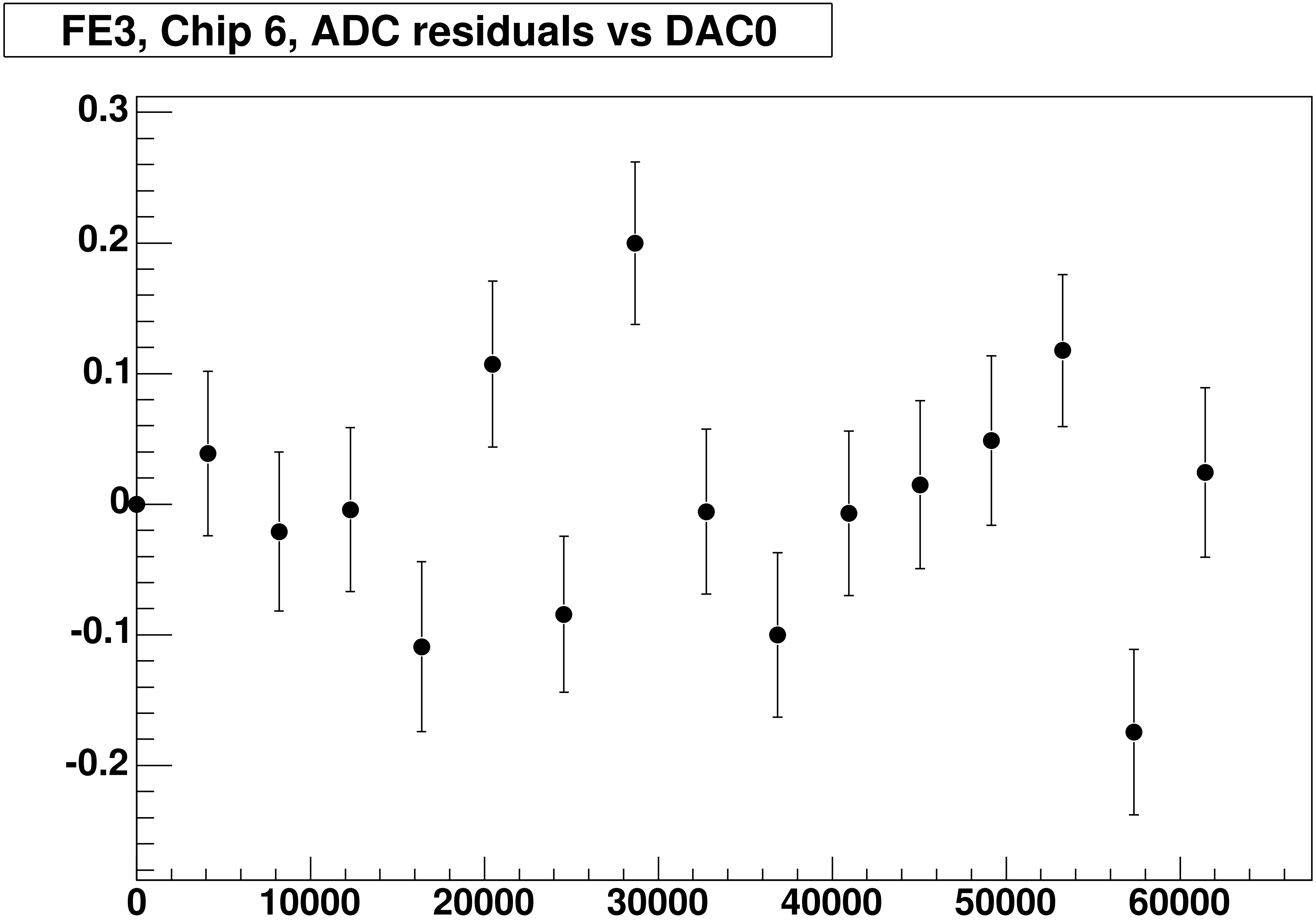
FE3, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

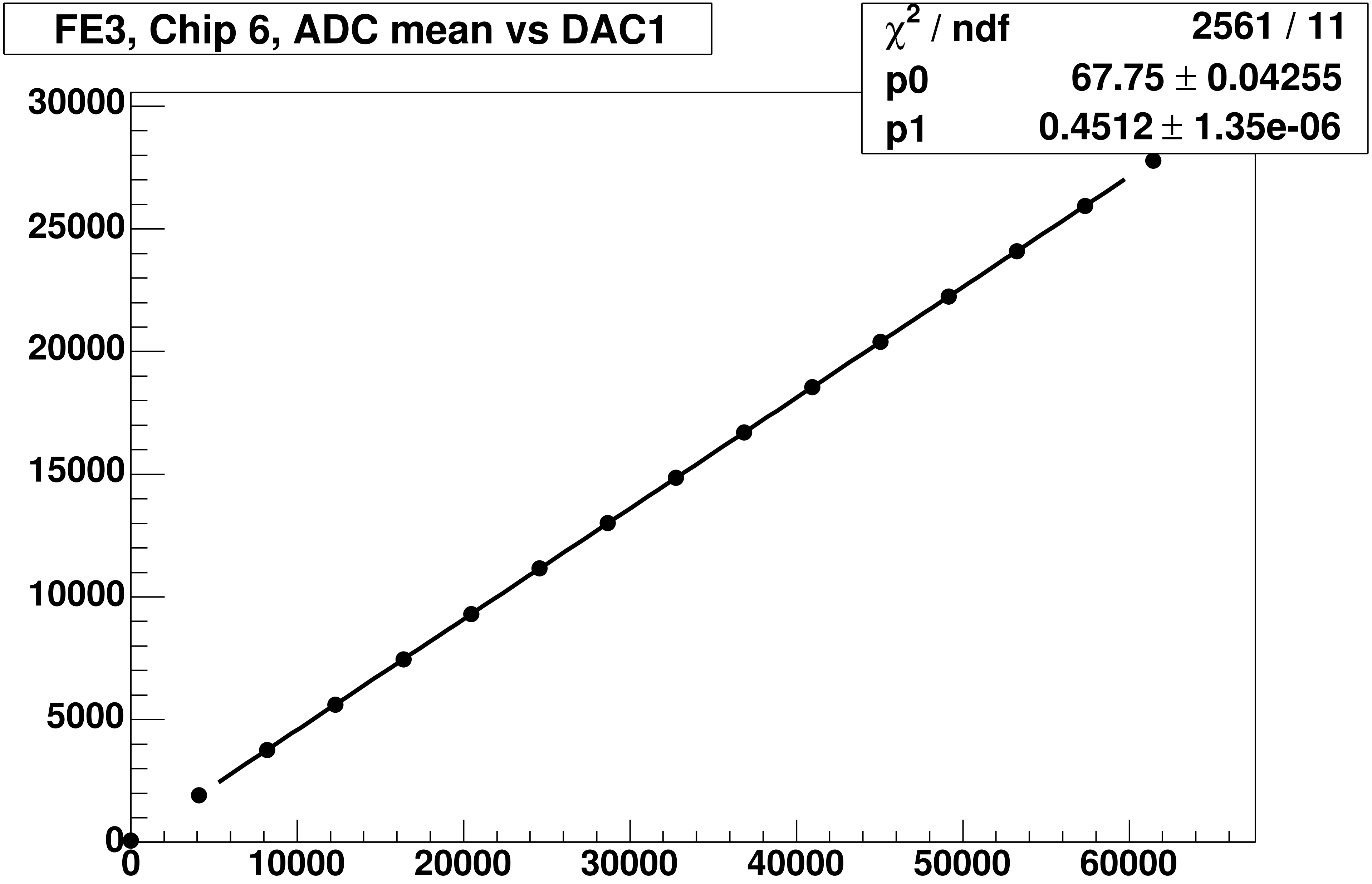


FE3, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

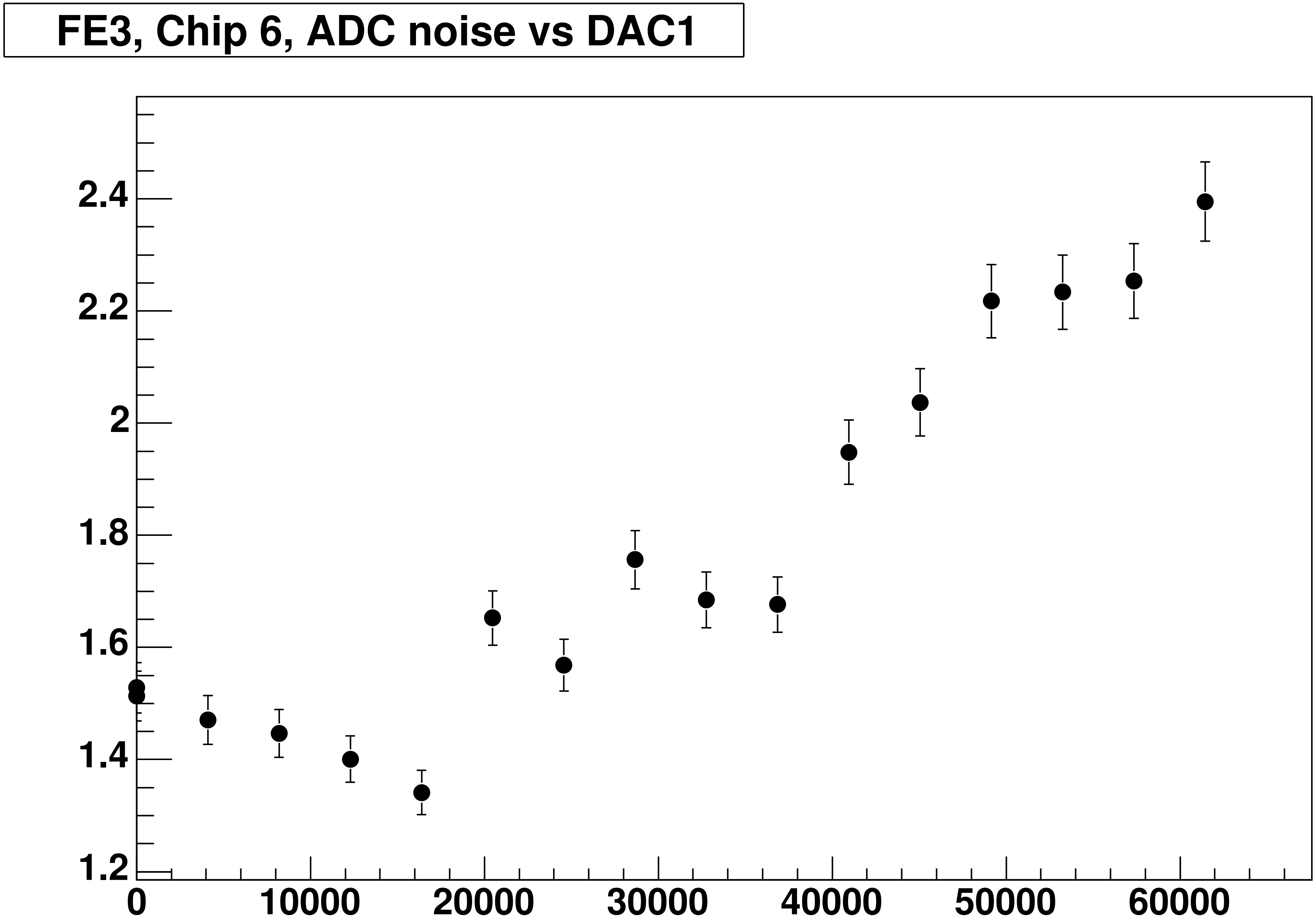

FE3, Chip 6, ADC mean vs DAC0
χ^2 / ndf 32.98 / 11
p0 64.13 ± 0.04075
p1 -6.873e-07 ± 1.125e-06
64.4
64.3
64.2
64.1
64
63.9
63.8
0
10000
20000
30000
40000
50000
60000


FE3, 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

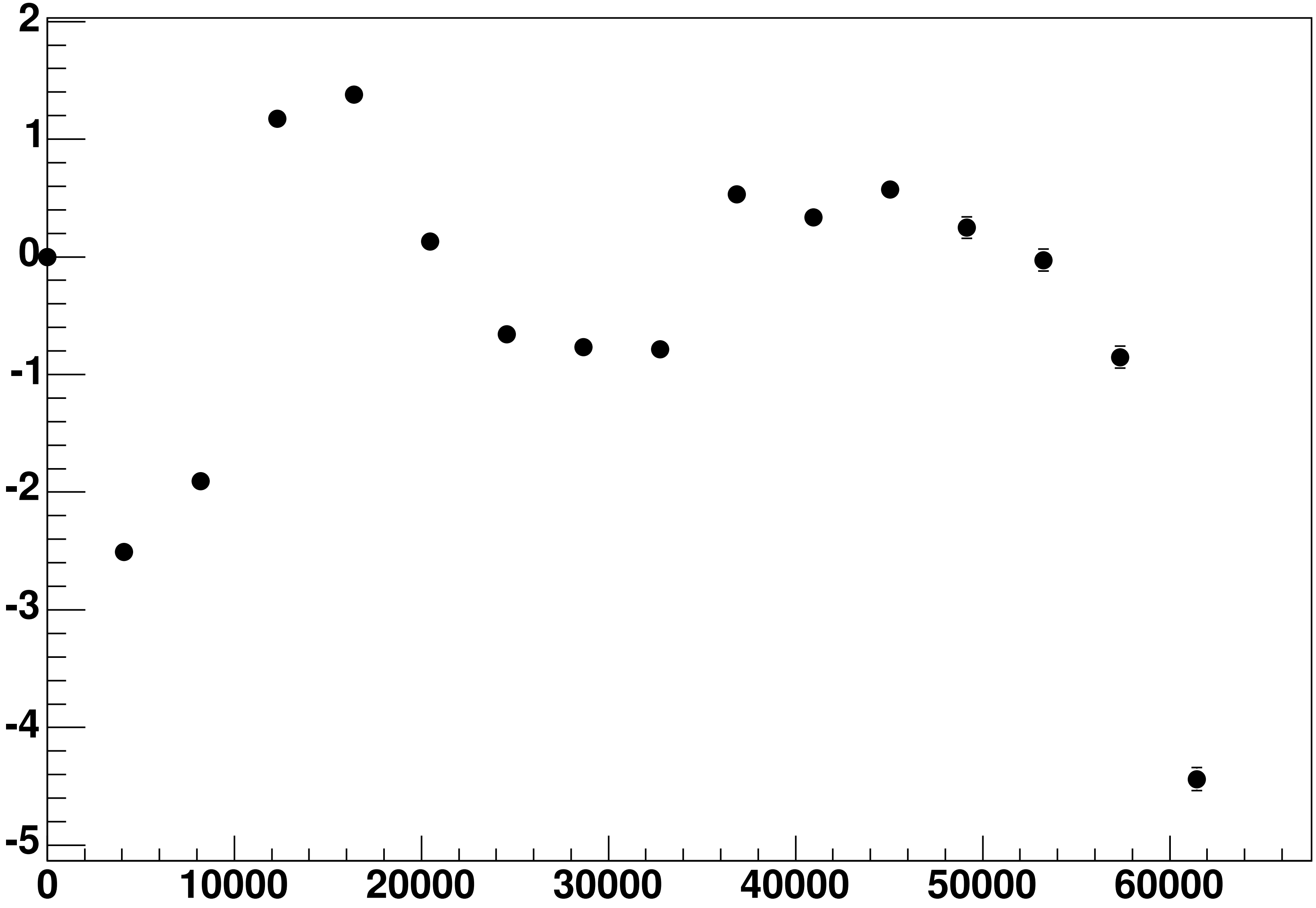

FE3, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

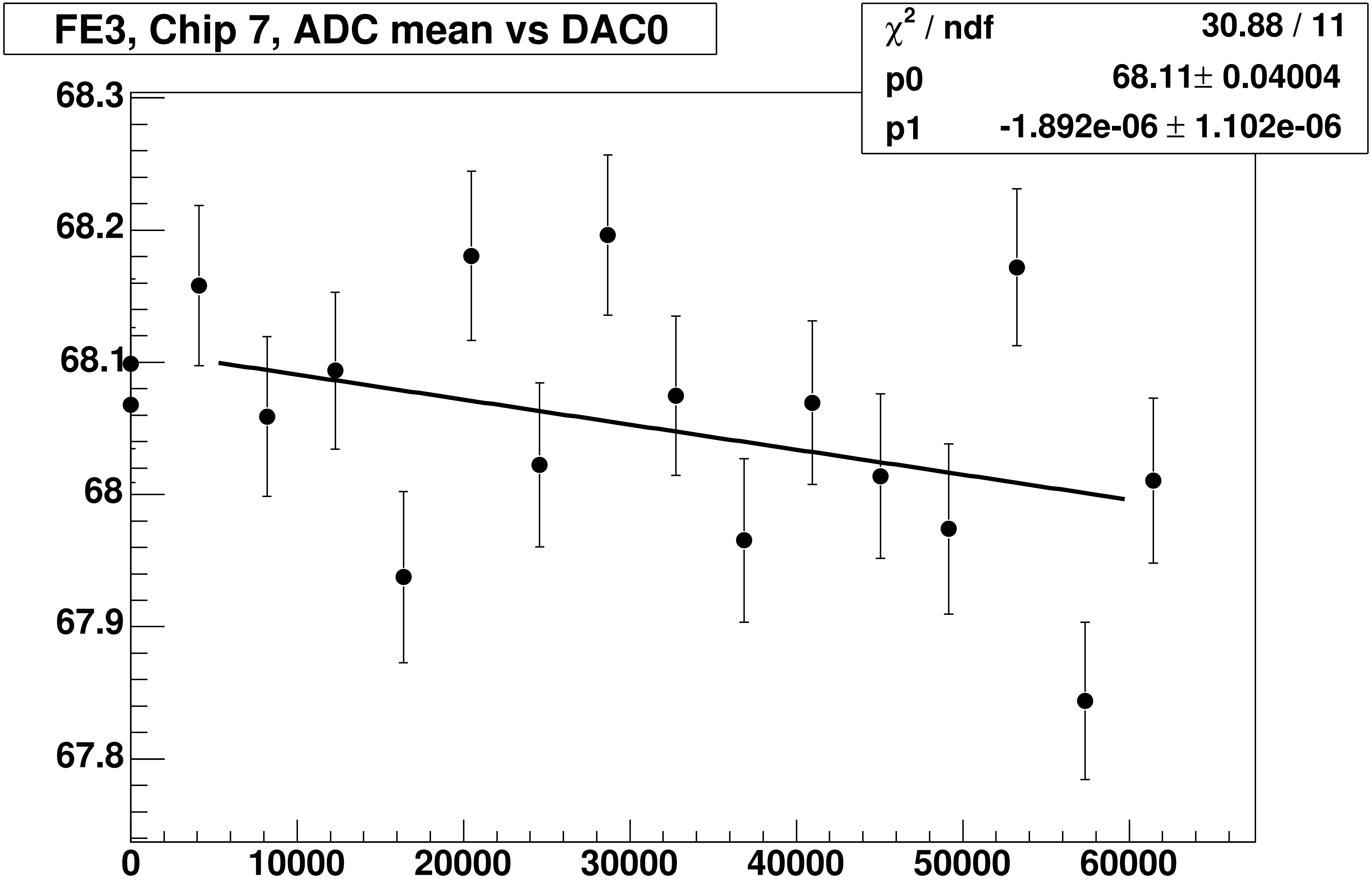


FE3, Chip 6, ADC mean vs DAC1
χ^2 / ndf 2561 / 11
p0 67.75 ± 0.04255
p1 0.4512 ± 1.35e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

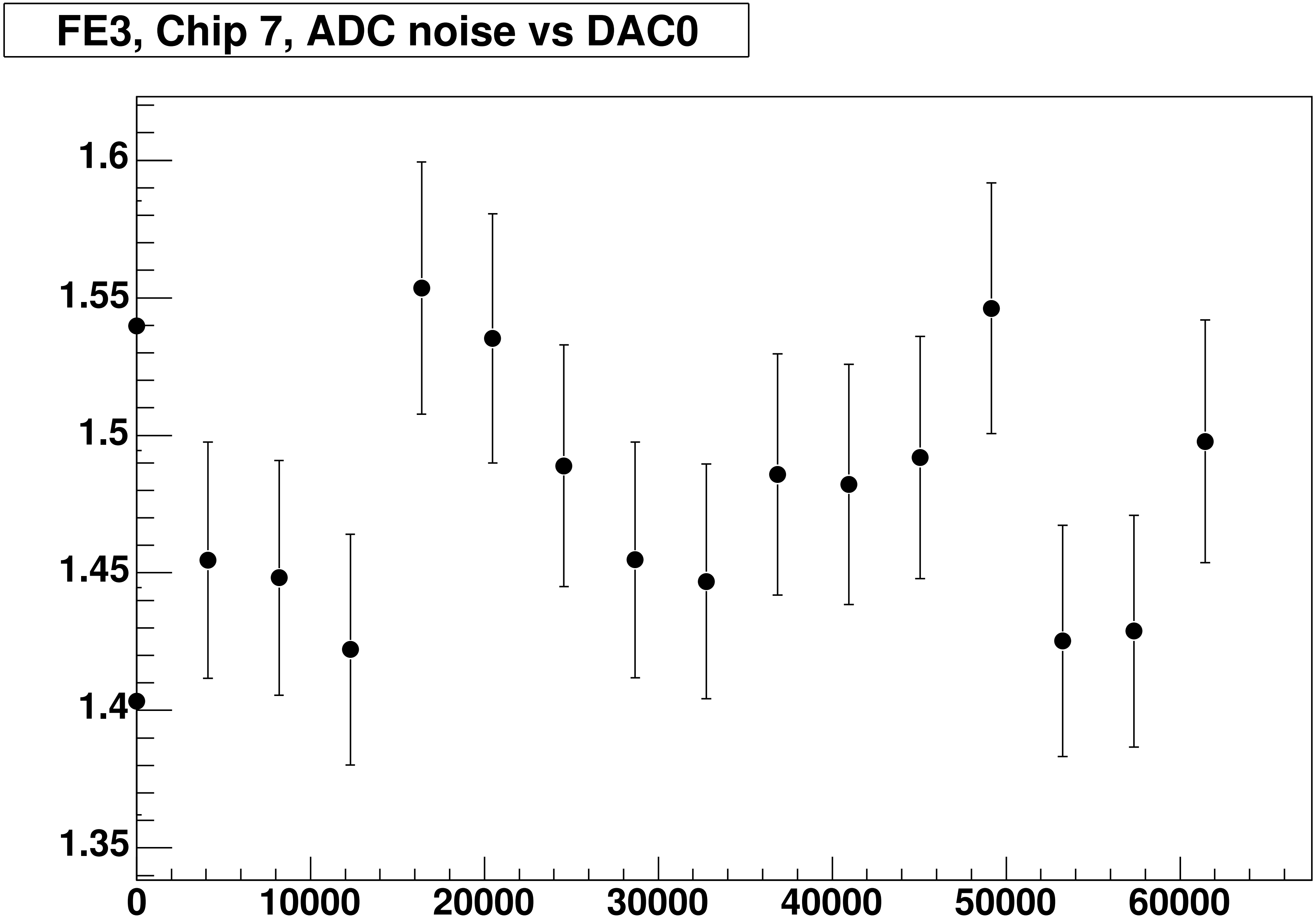

FE3, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

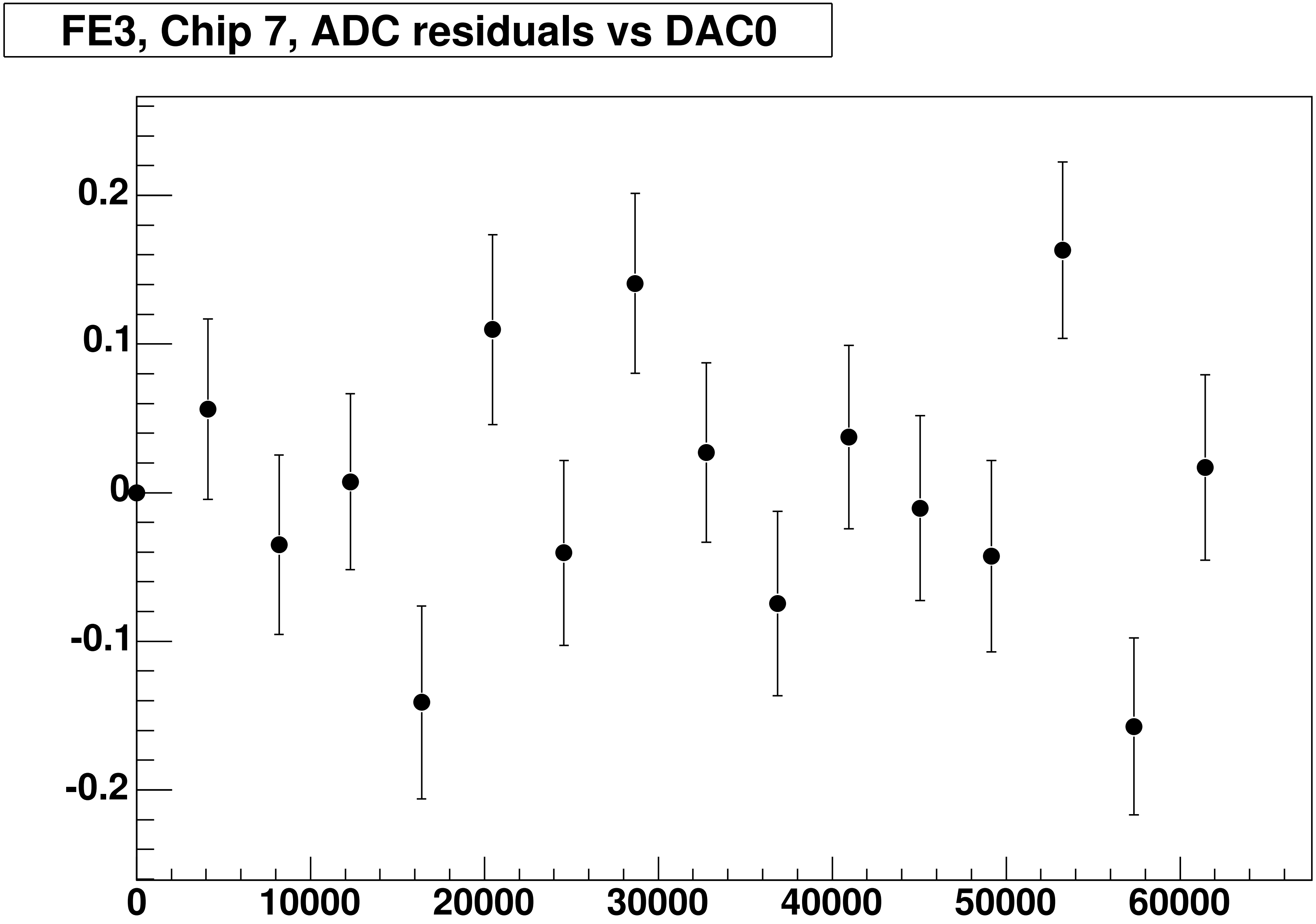
FE3, Chip 6, ADC residuals vs DAC1



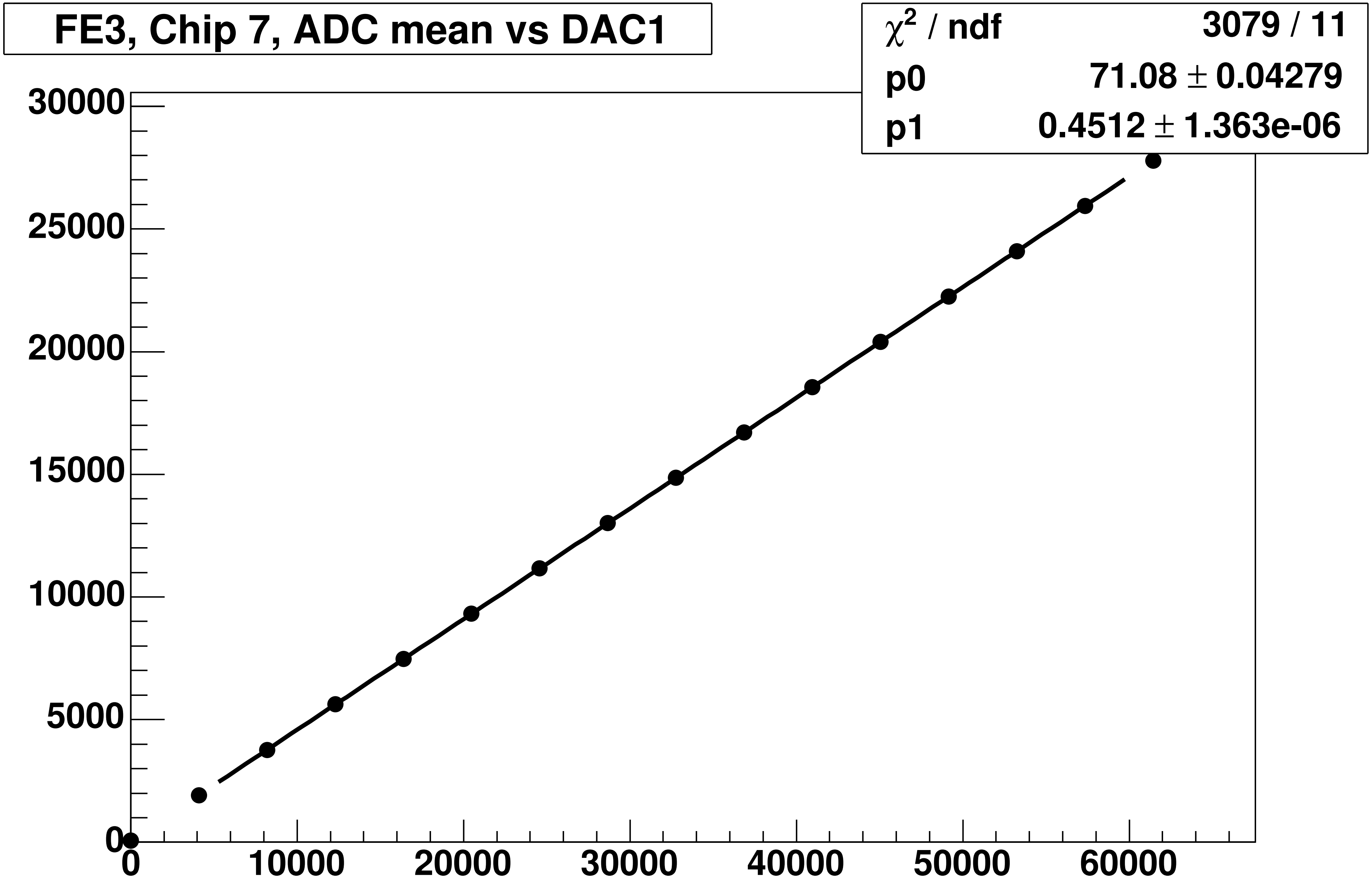


FE3, Chip 7, ADC mean vs DAC0
χ^2 / ndf 30.88 / 11
p0 68.11± 0.04004
p1 -1.892e-06 ± 1.102e-06
68.3
68.2
68.1
68
67.9
67.8
0
10000
20000
30000
40000
50000
60000

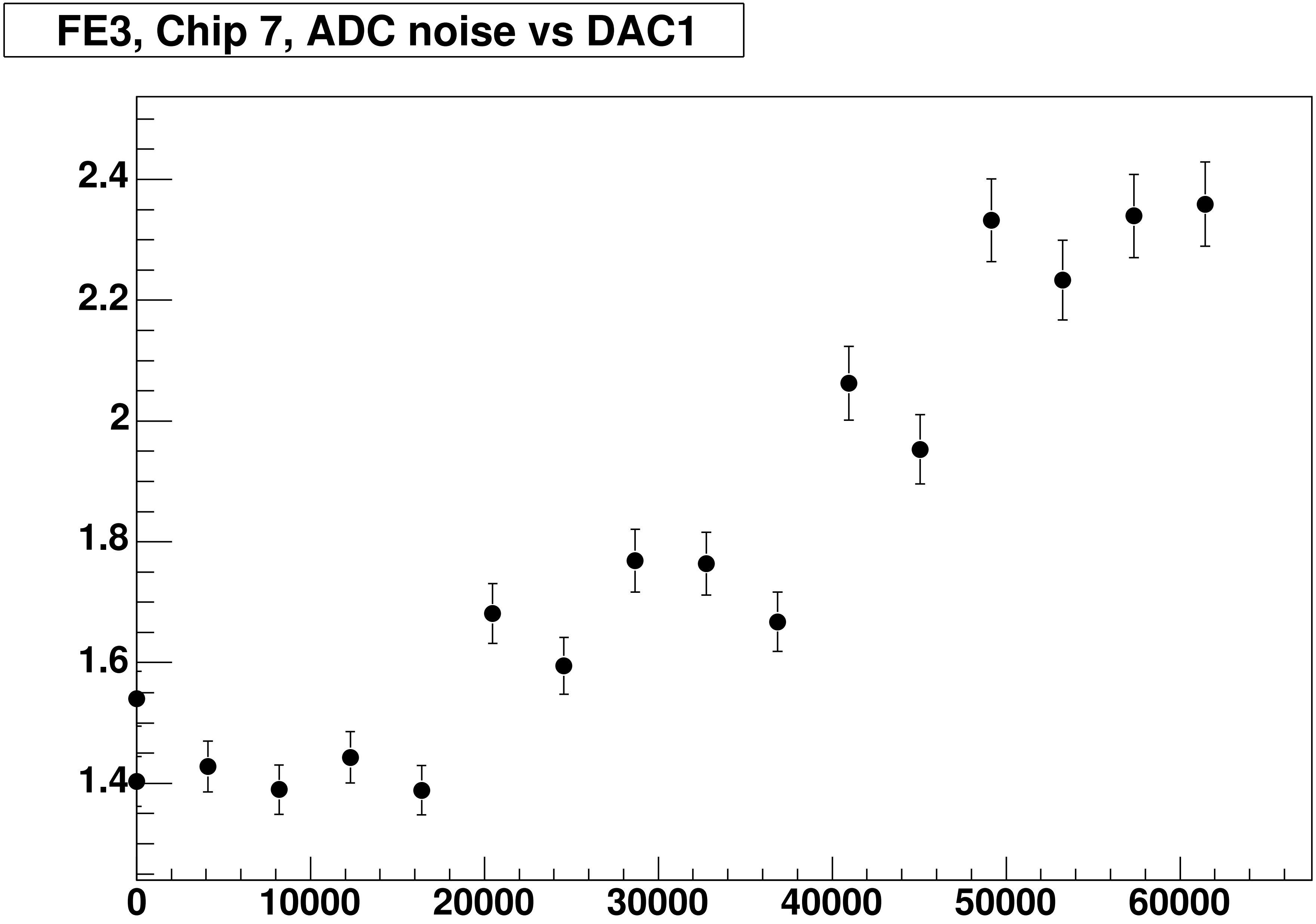

FE3, Chip 7, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



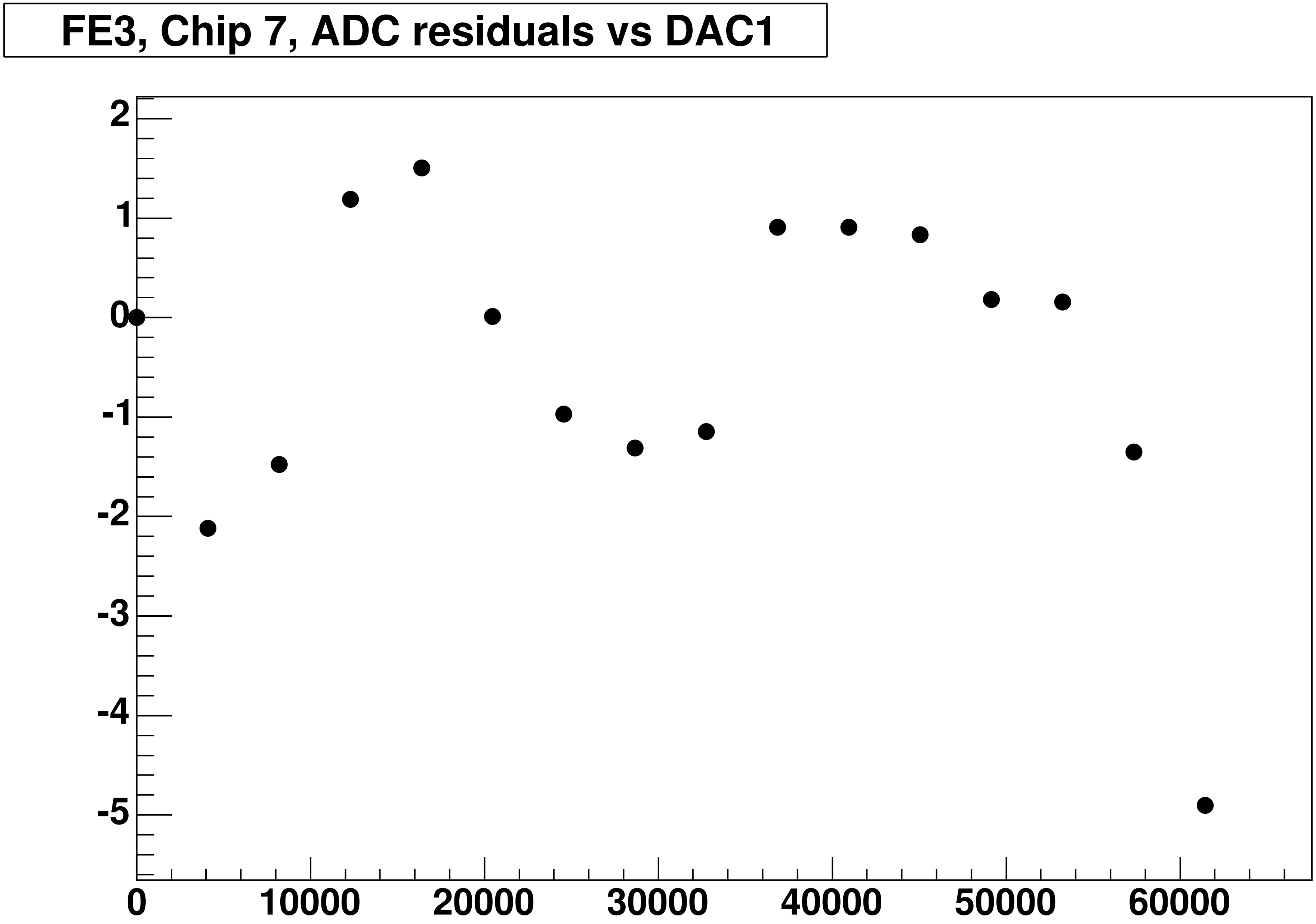
FE3, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

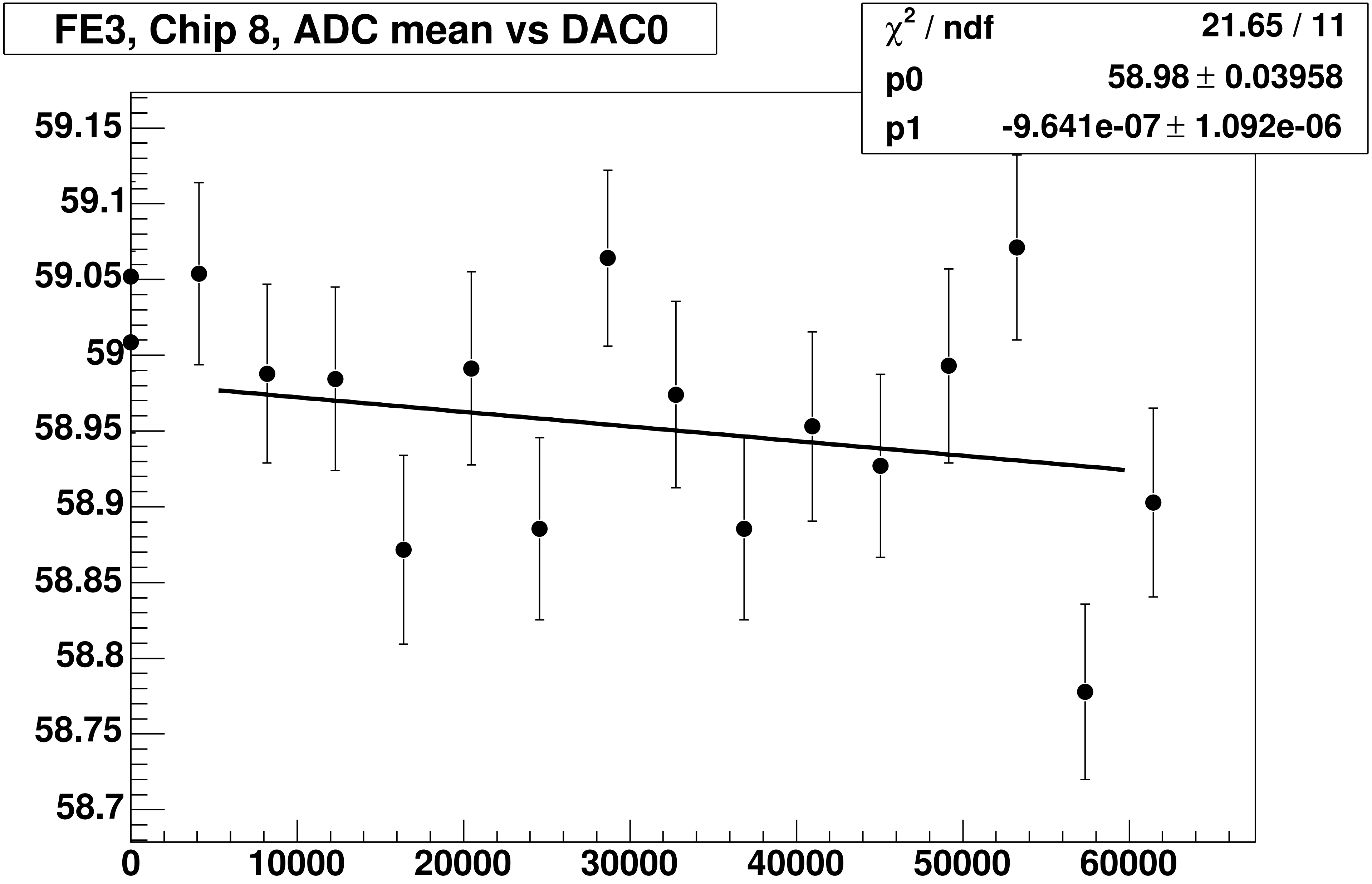


FE3, Chip 7, ADC mean vs DAC1
χ^2 / ndf 3079 / 11
p0 71.08 ± 0.04279
p1 0.4512 ± 1.363e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

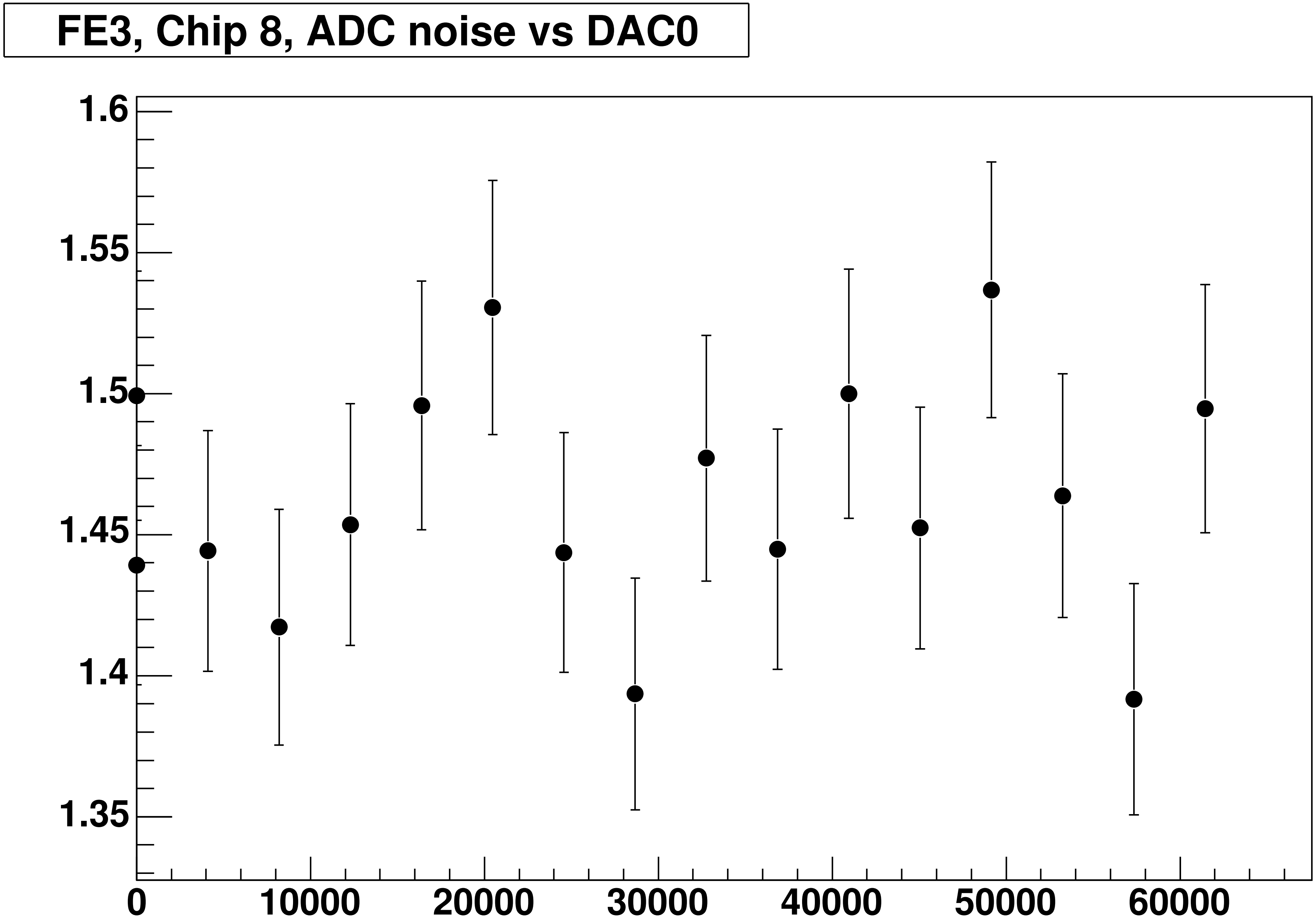


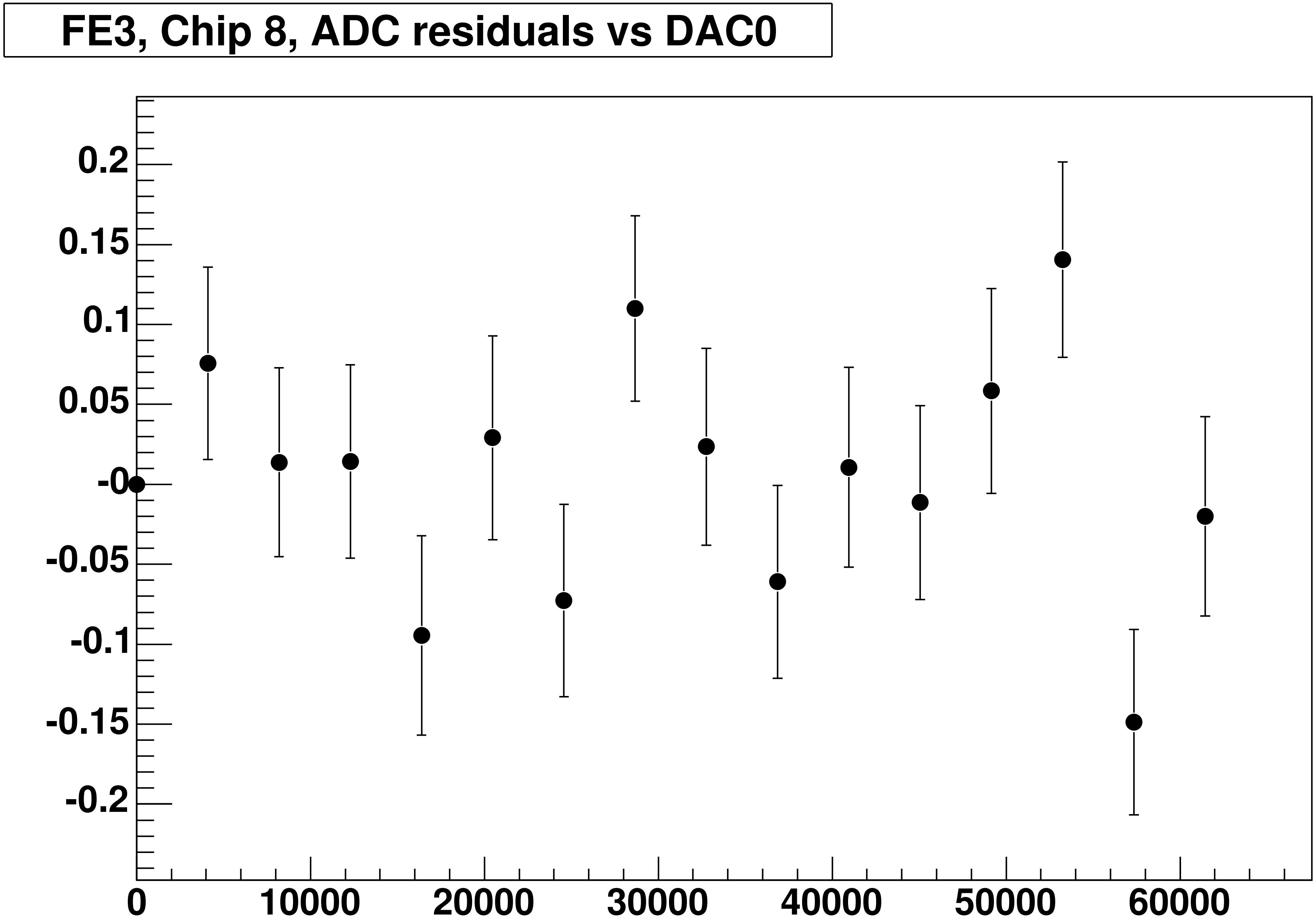
FE3, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

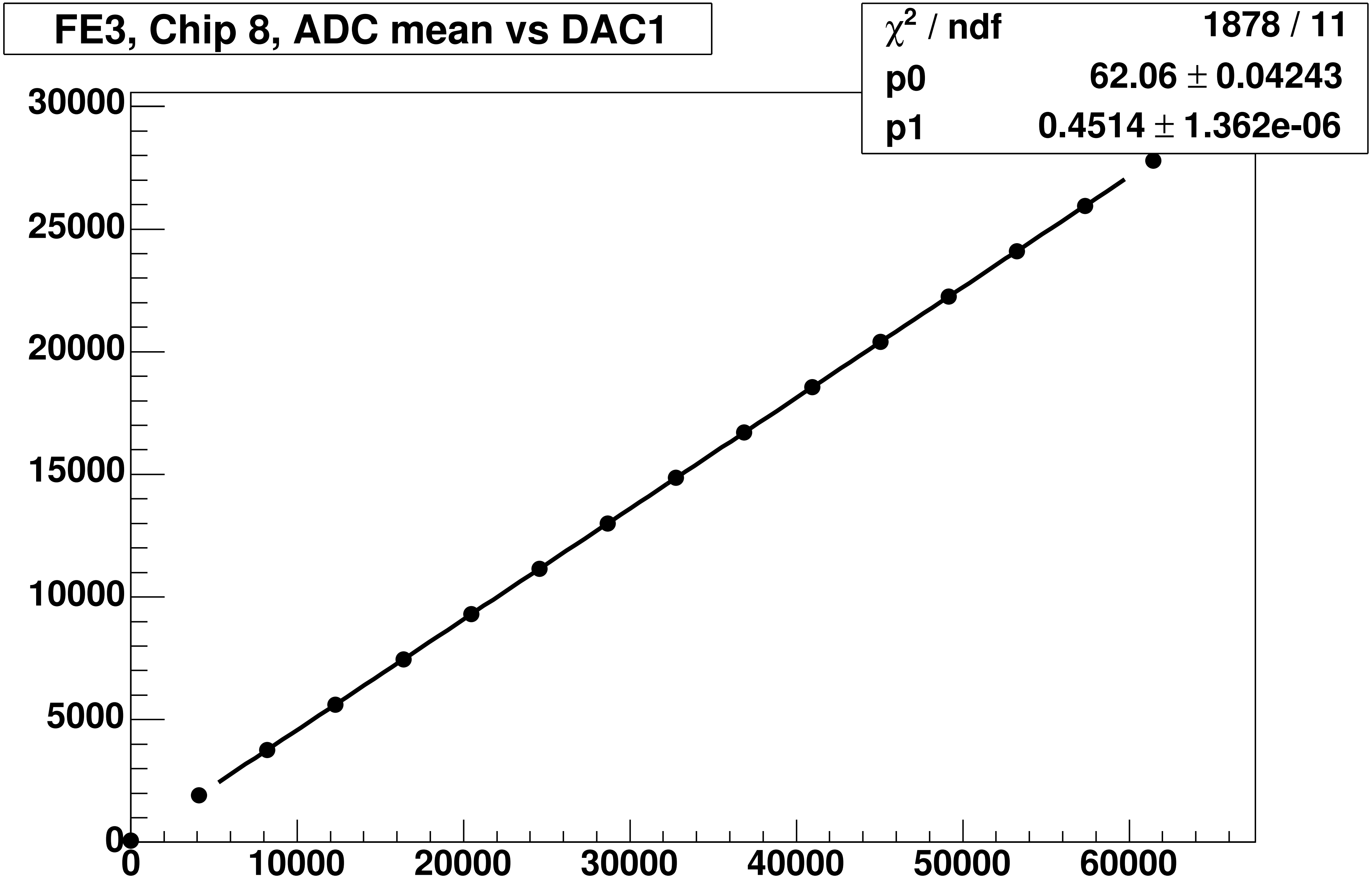

FE3, Chip 7, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

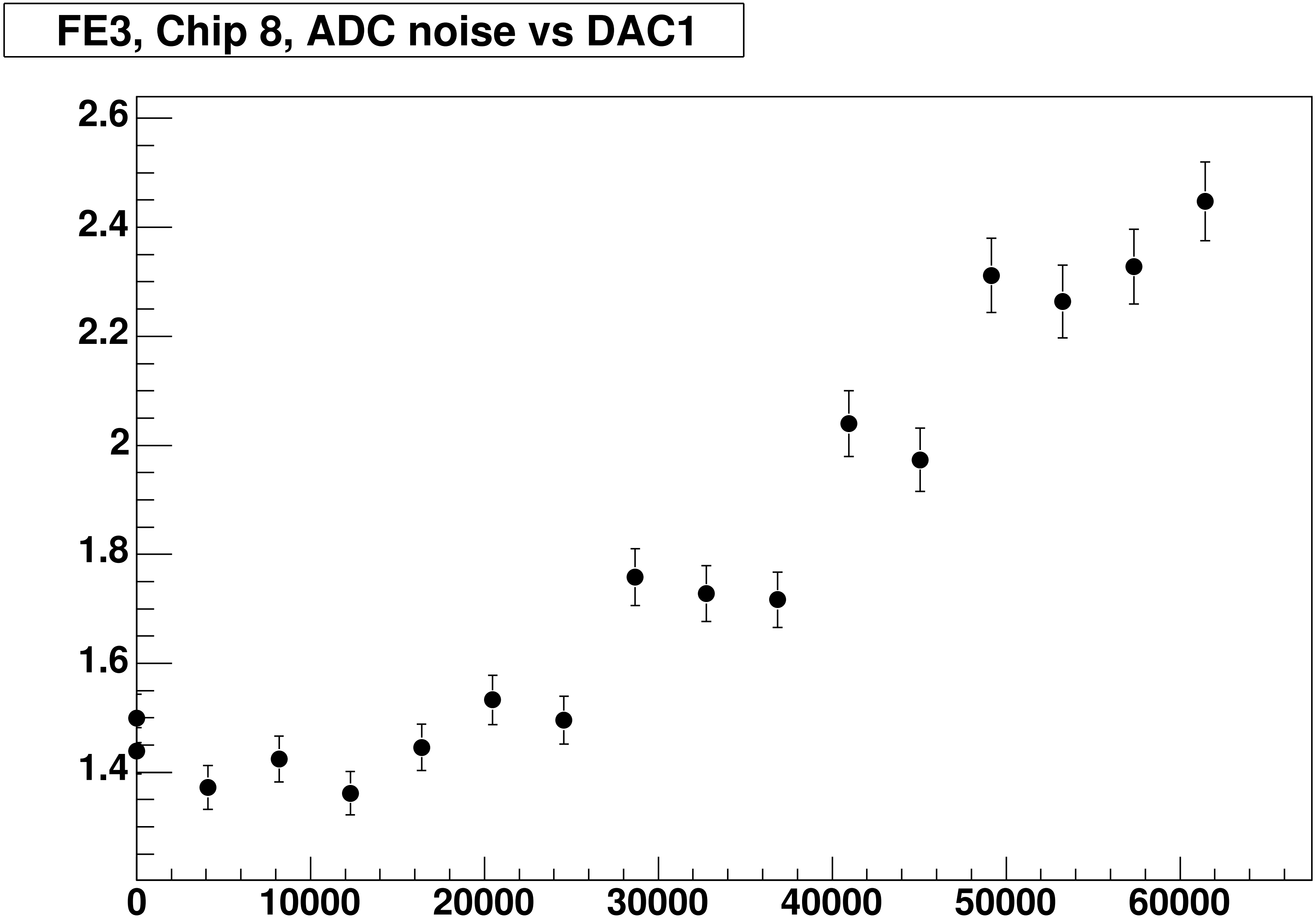


FE3, Chip 8, ADC mean vs DAC0
χ^2 / ndf 21.65 / 11
p0 58.98 ± 0.03958
p1 -9.641e-07 ± 1.092e-06
59.15
59.1
59.05
59
58.95
58.9
58.85
58.8
58.75
58.7
0
10000
20000
30000
40000
50000
60000


FE3, 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

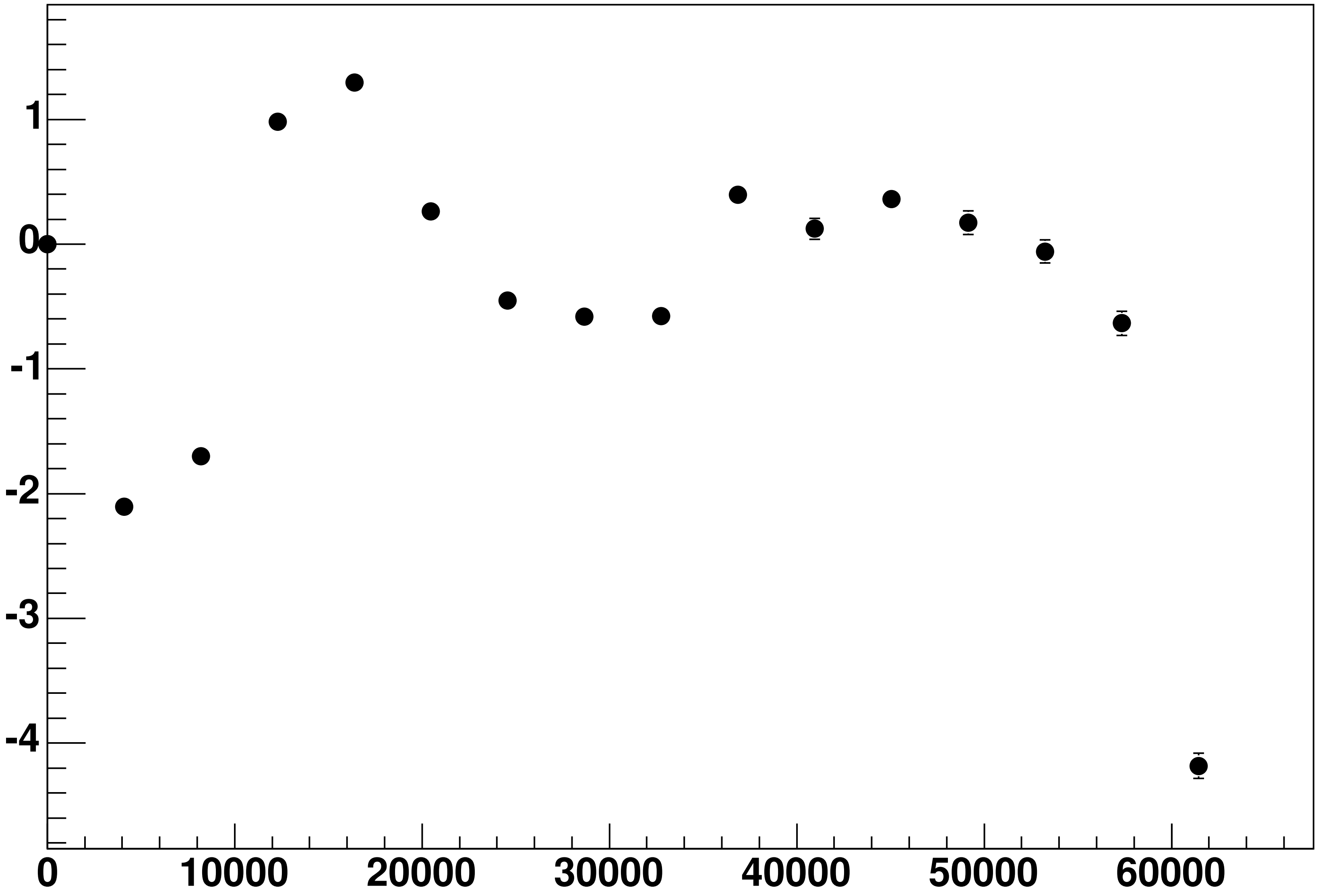

FE3, Chip 8, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

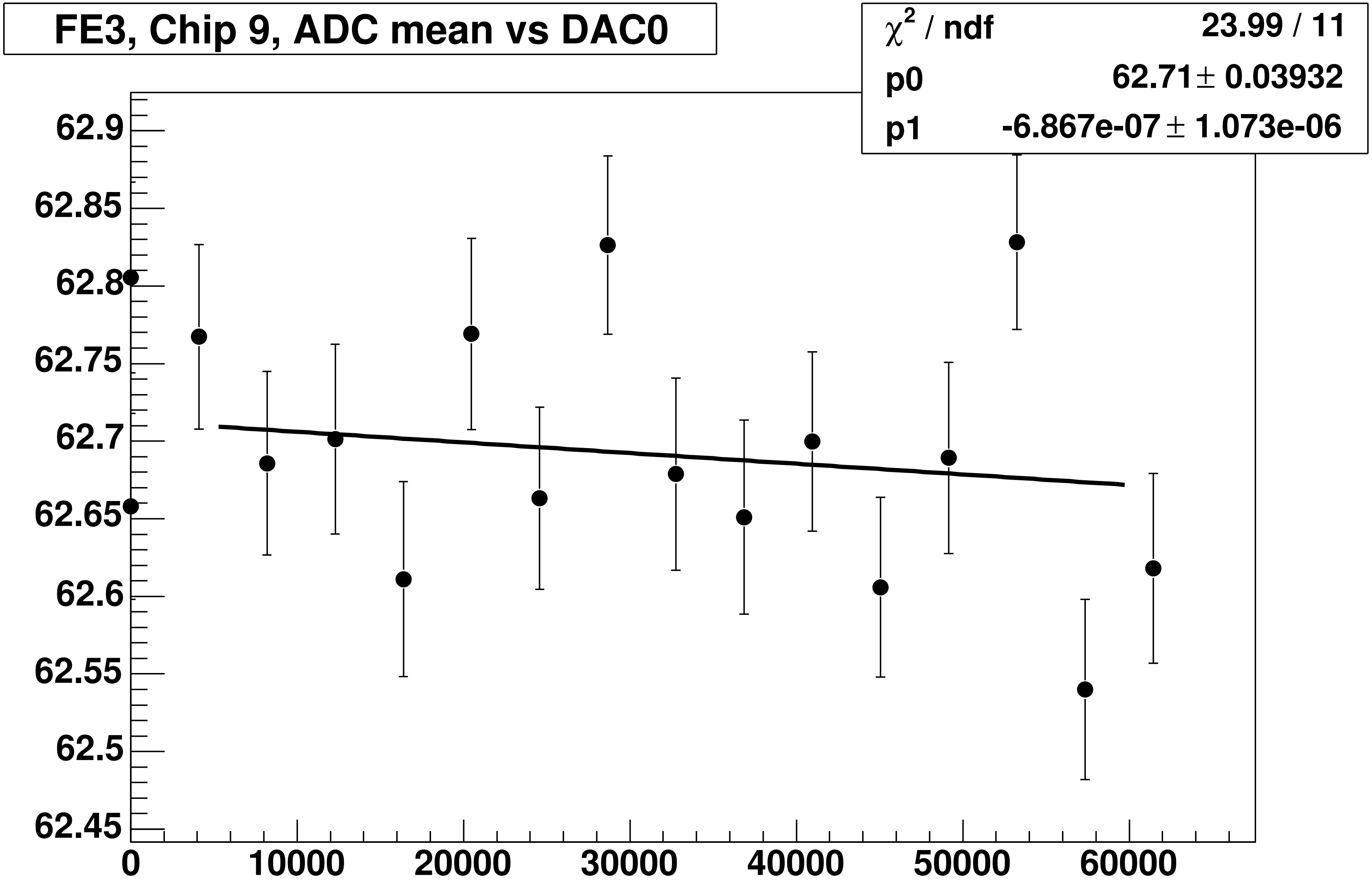

FE3, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1878 / 11
p0 62.06 ± 0.04243
p1 0.4514 ± 1.362e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



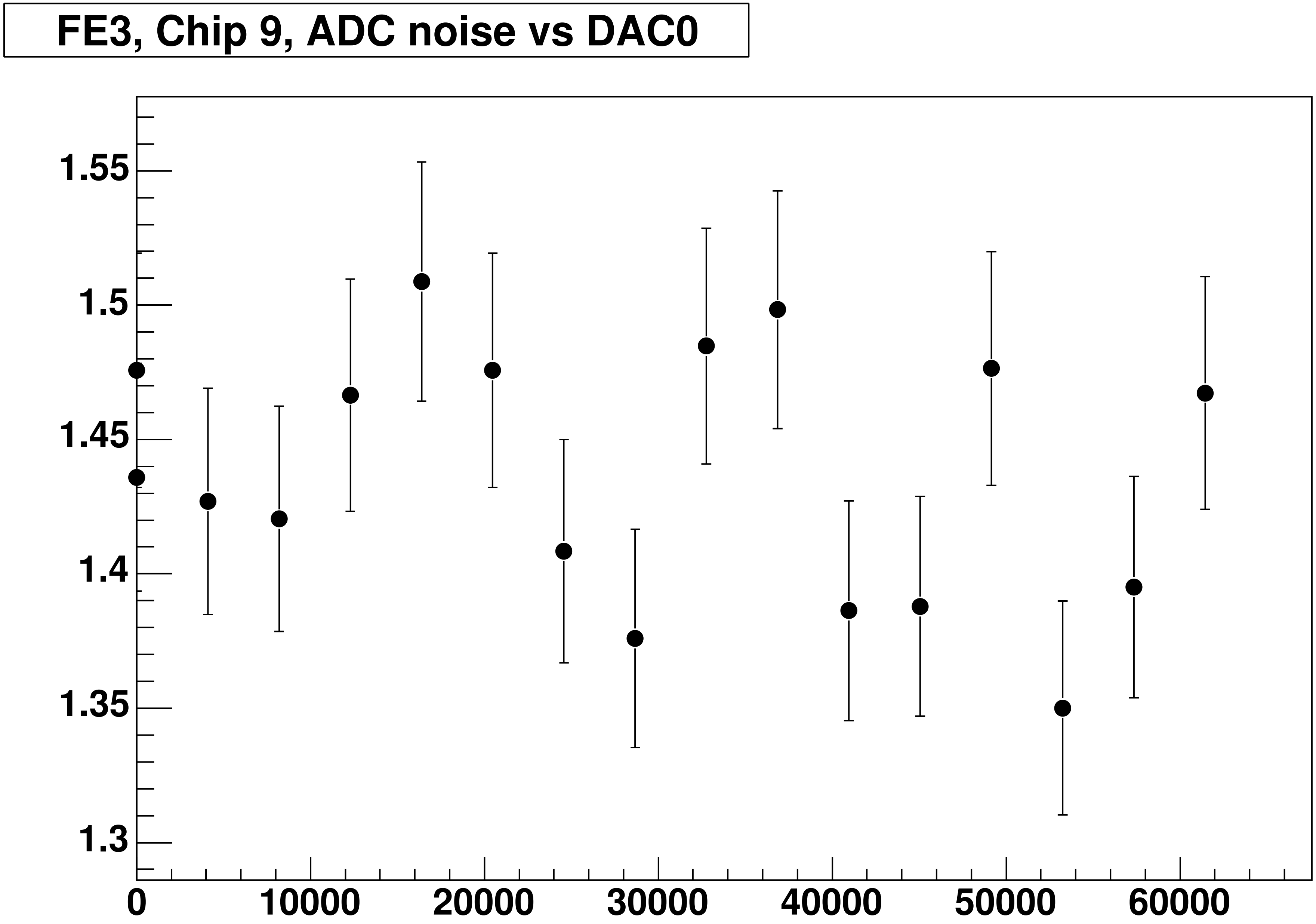
FE3, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

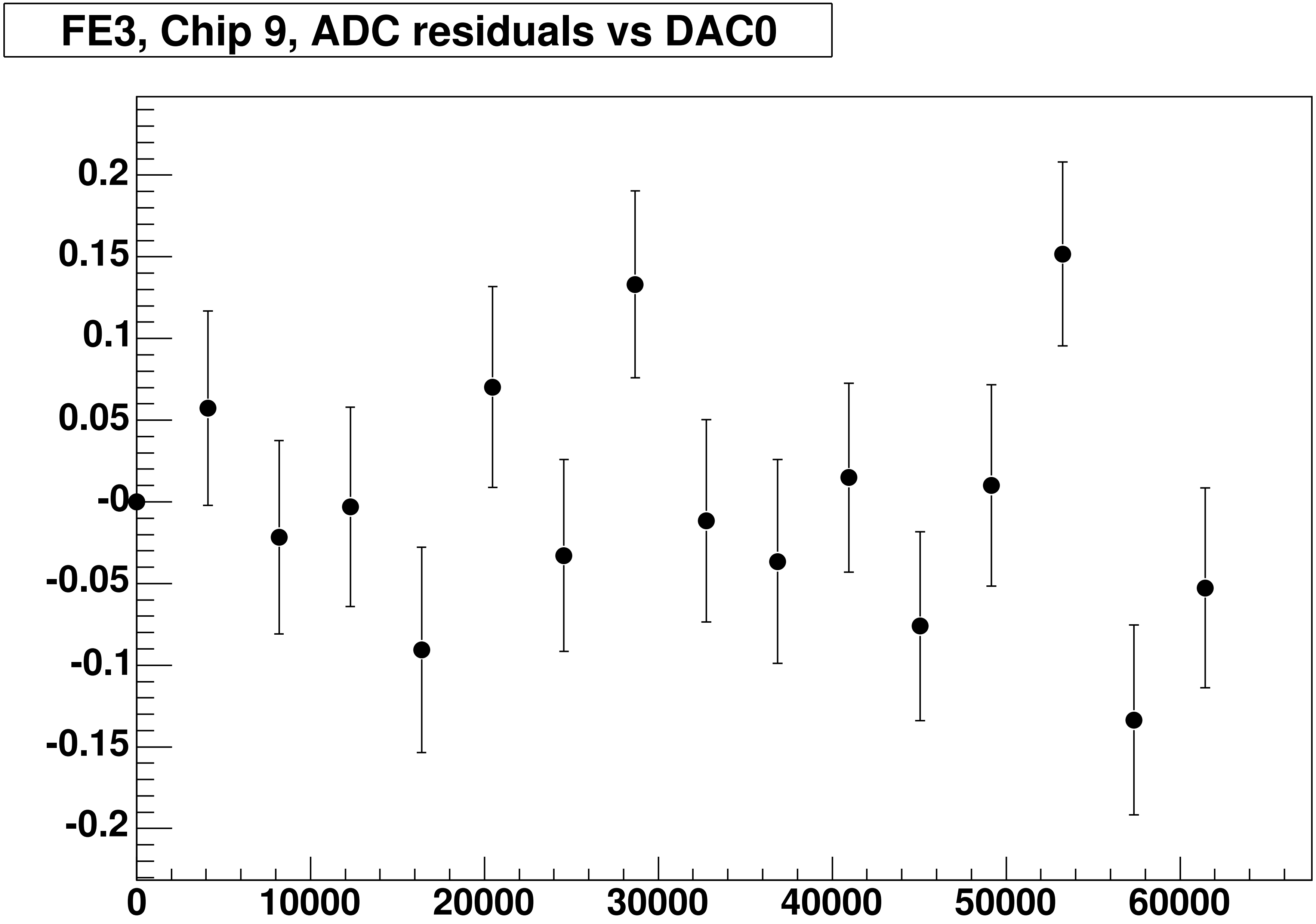
FE3, Chip 8, ADC residuals vs DAC1



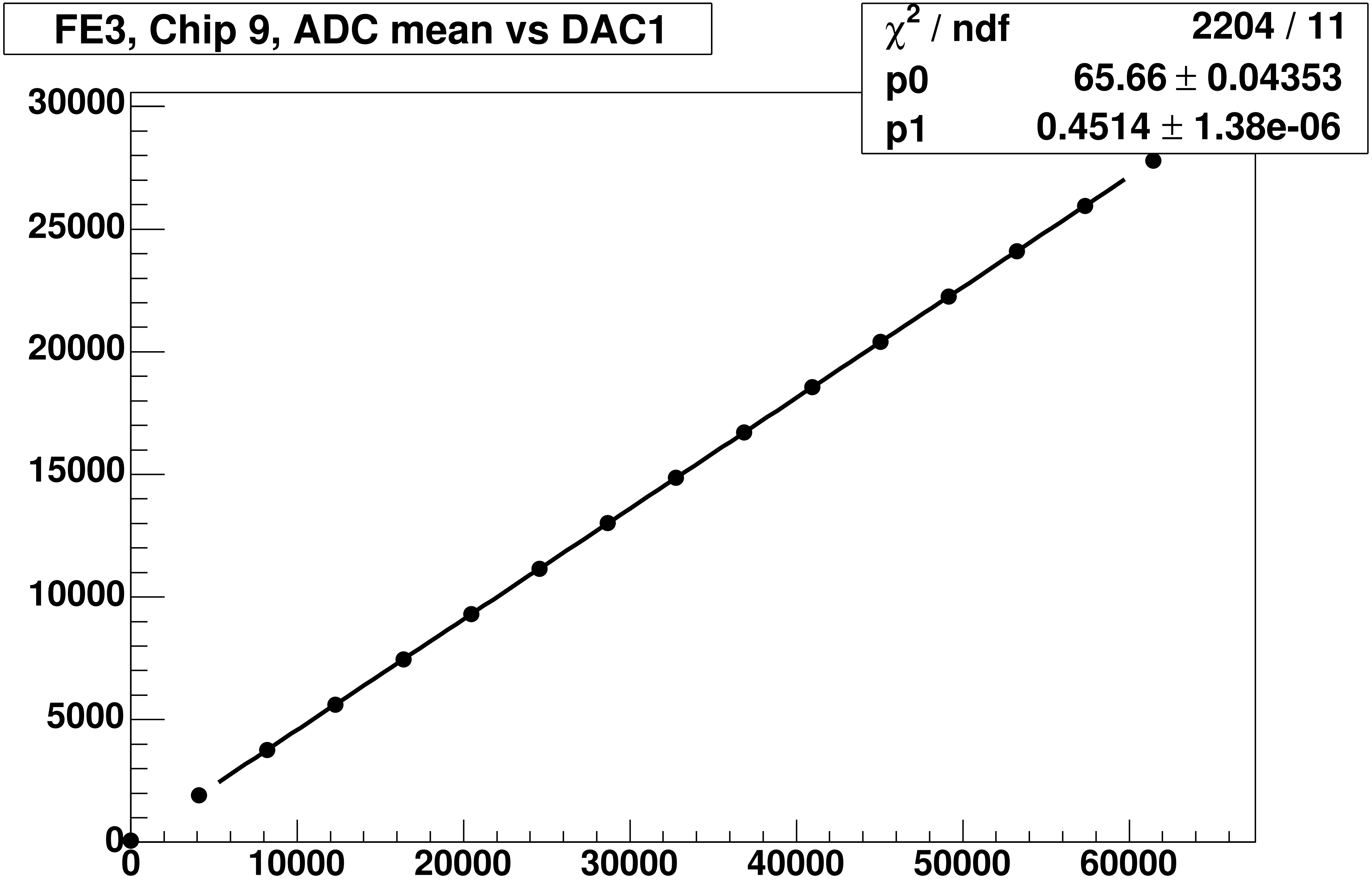


FE3, Chip 9, ADC mean vs DAC0
χ2 / ndf 23.99 / 11
p0 62.71 ± 0.03932
p1 -6.867e-07 ± 1.073e-06
62.9
62.85
62.8
62.75
62.7
62.65
62.6
62.55
62.5
62.45
0
10000
20000
30000
40000
50000
60000

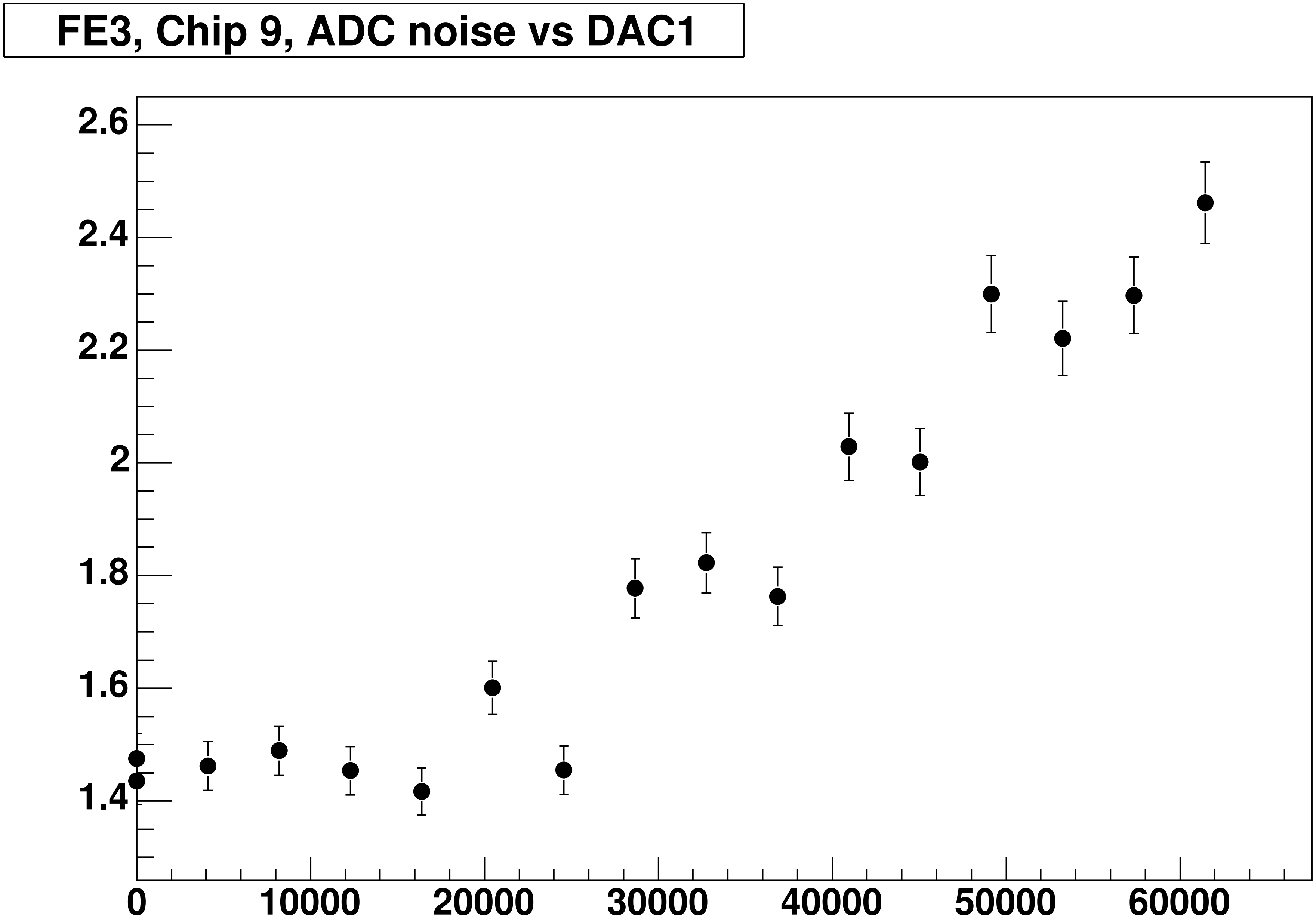

FE3, Chip 9, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



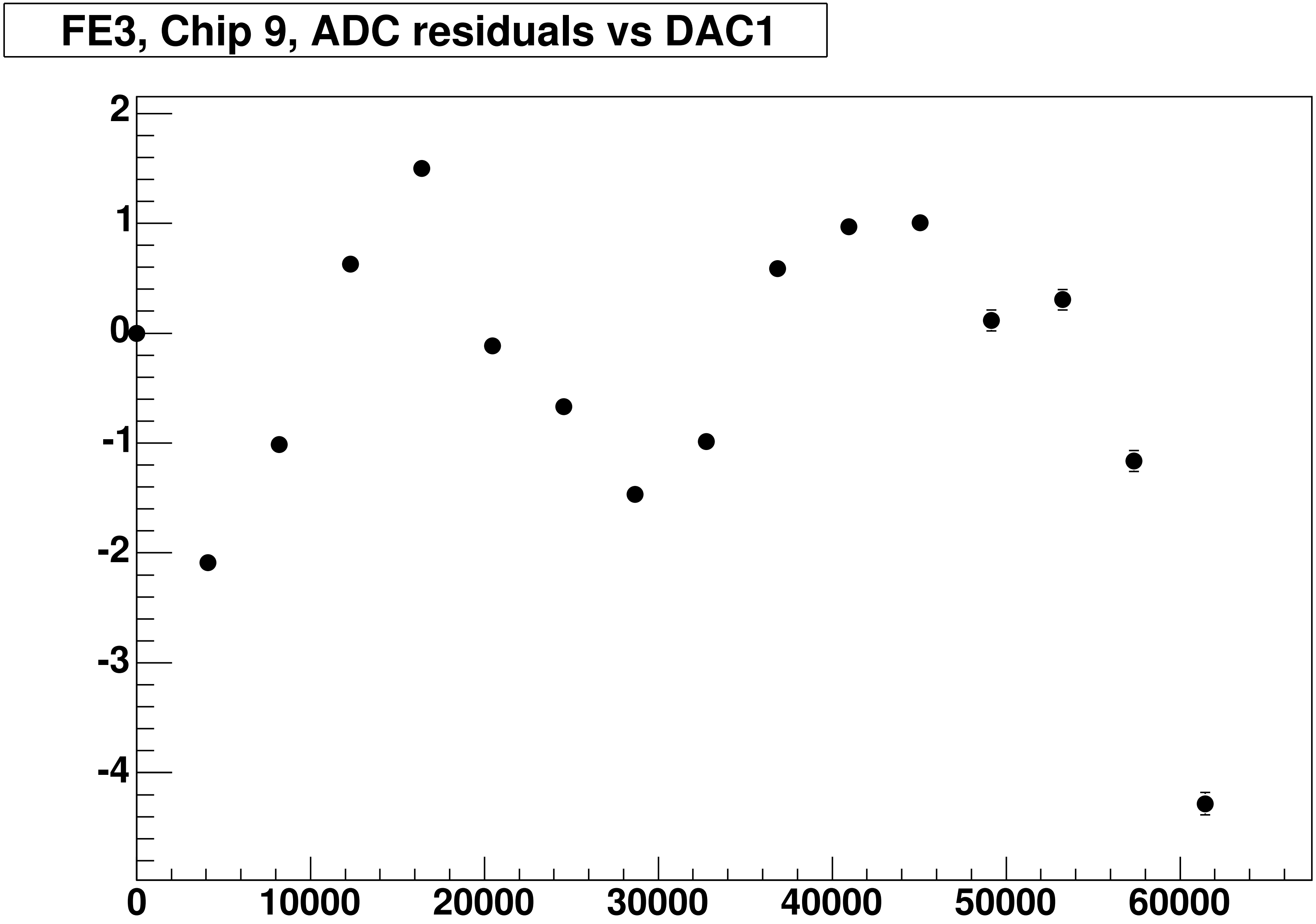
FE3, Chip 9, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

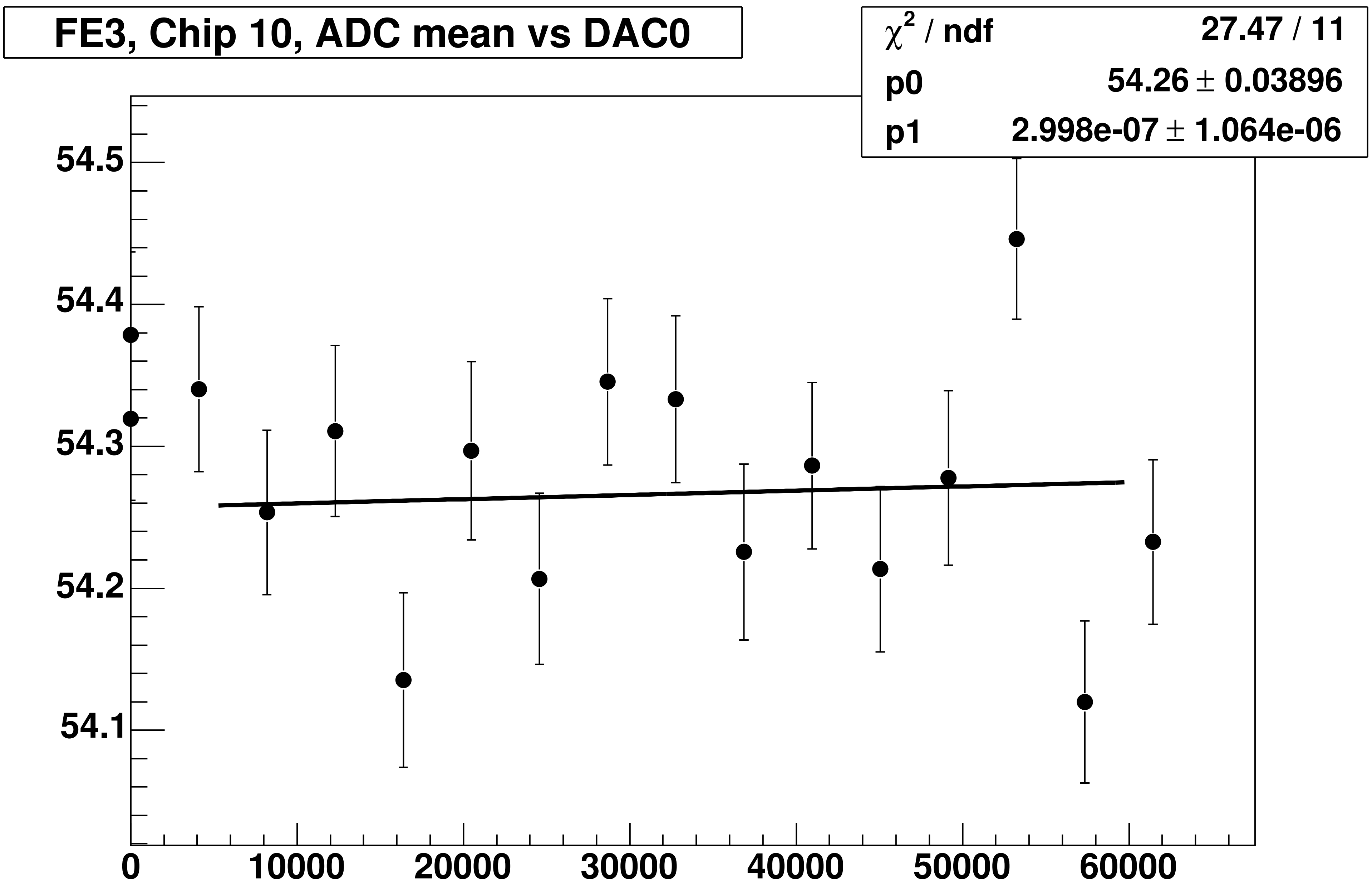


FE3, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2204 / 11
p0 65.66 ± 0.04353
p1 0.4514 ± 1.38e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

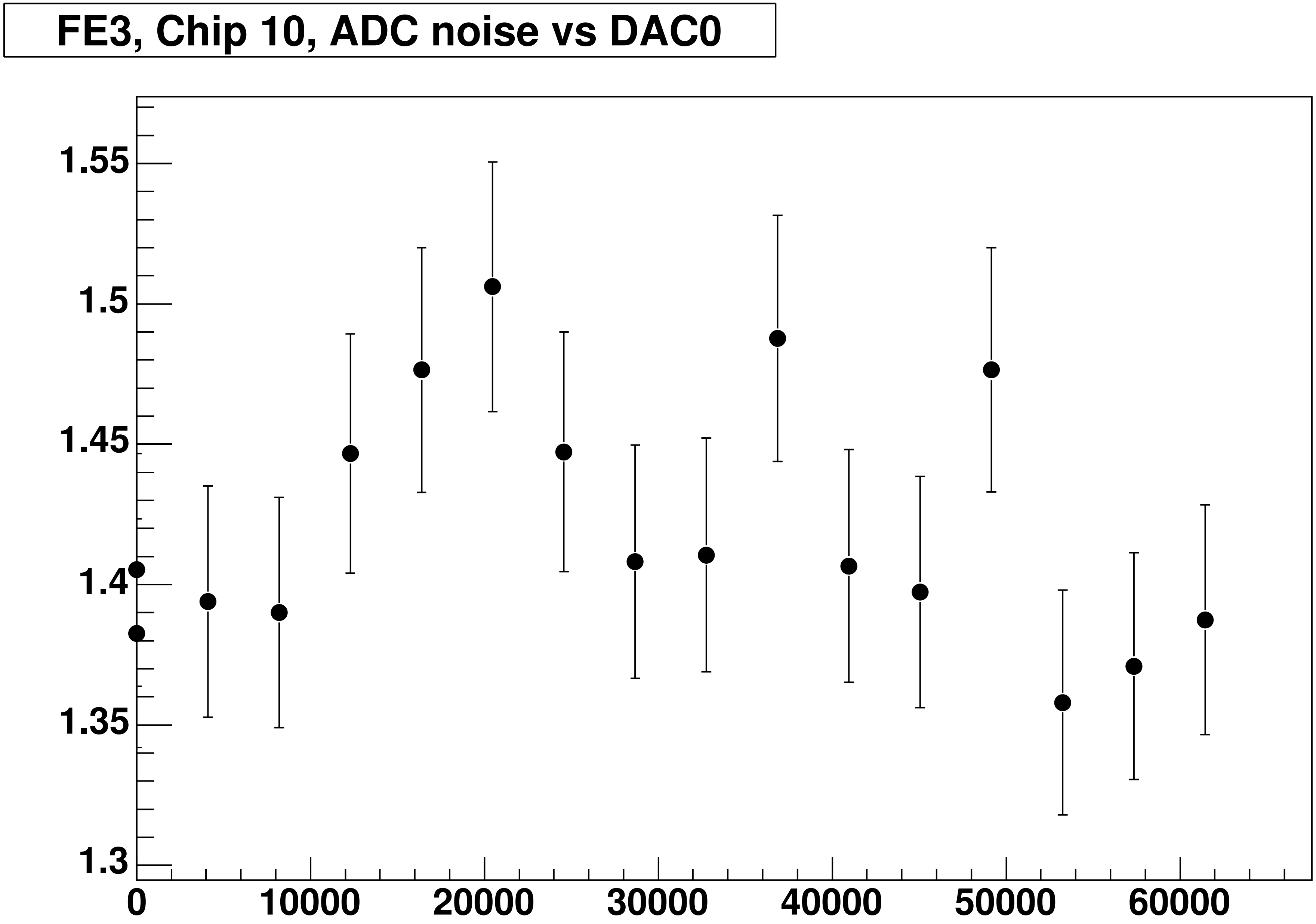


FE3, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

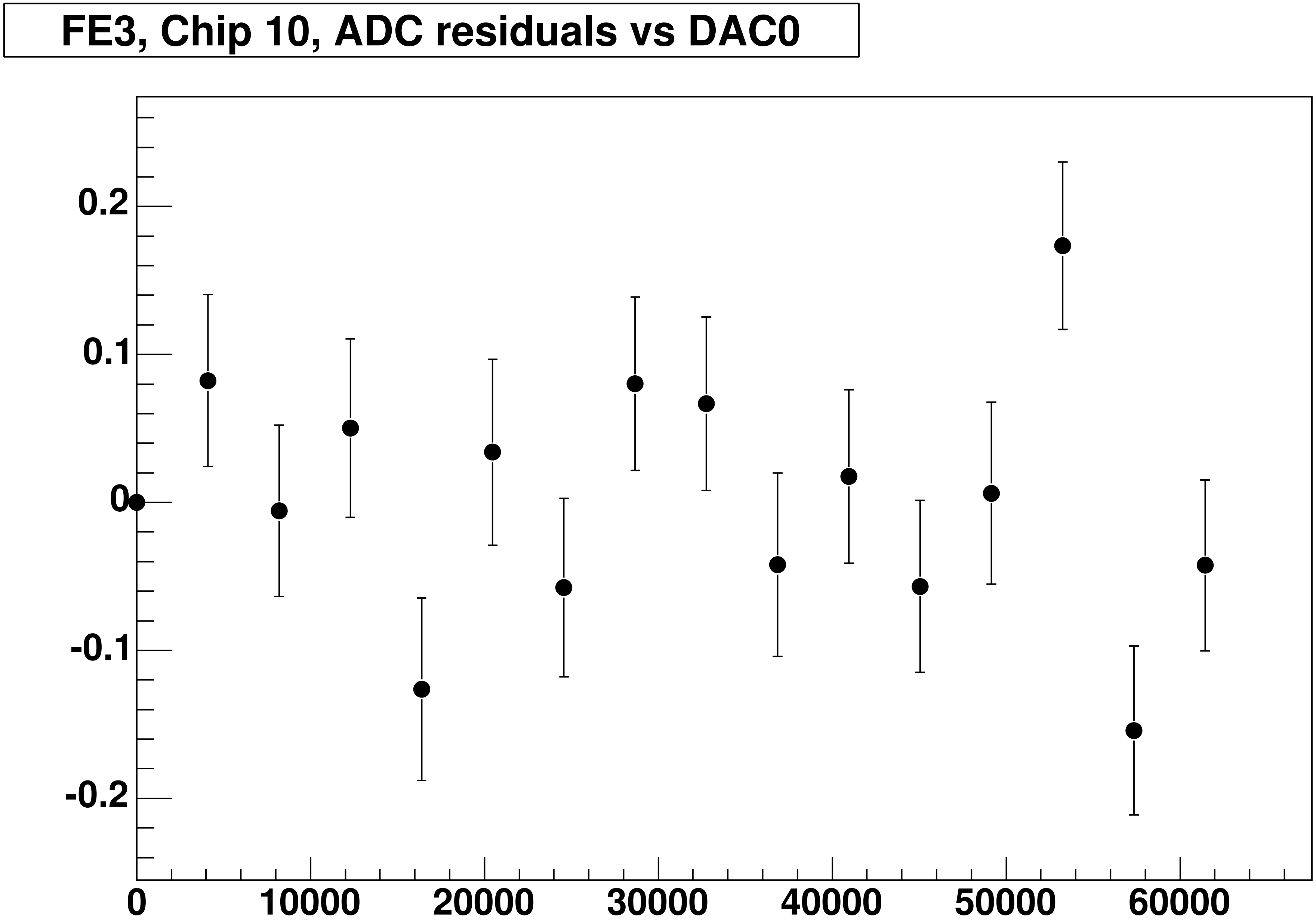

FE3, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



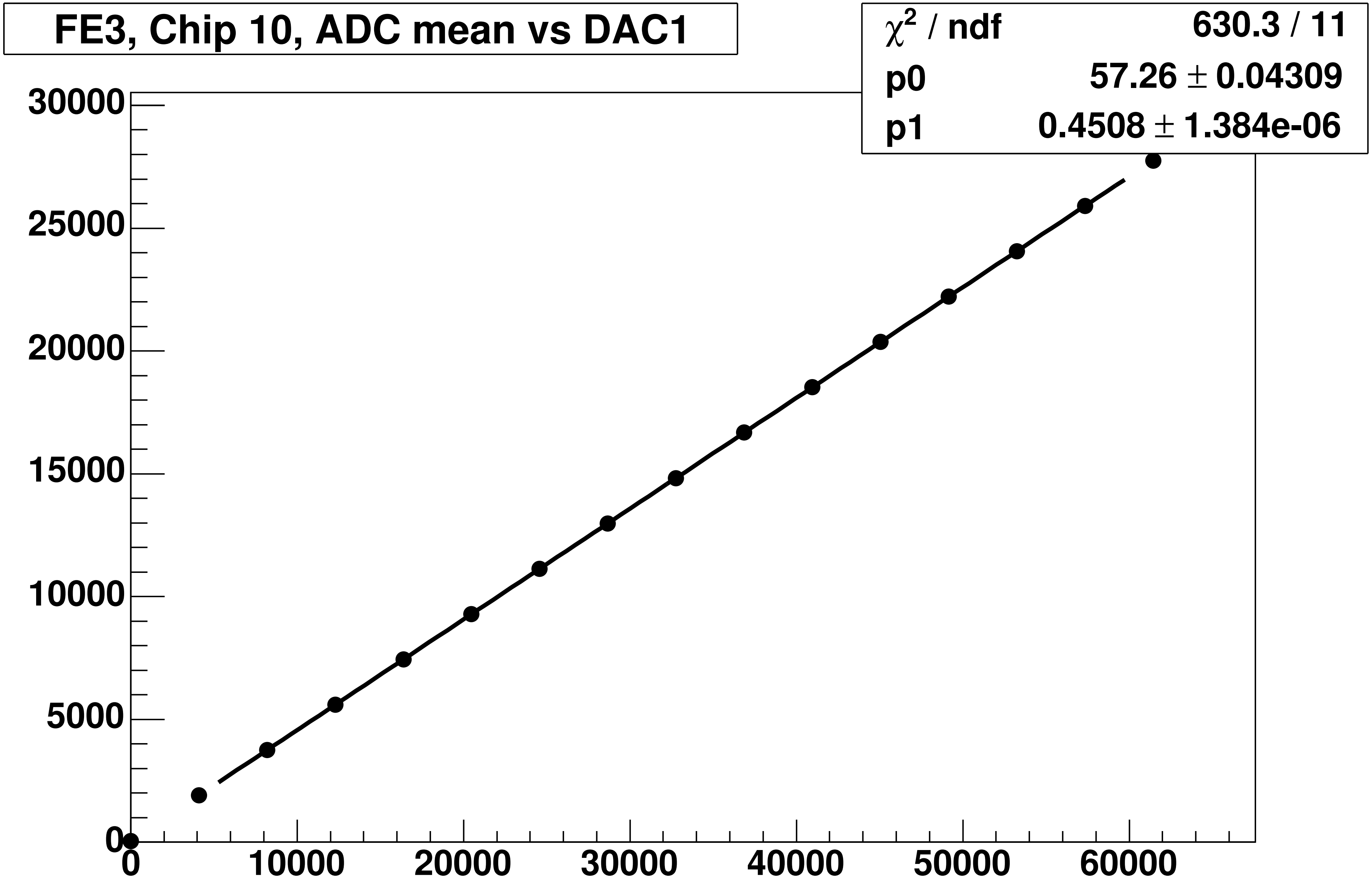
FE3, Chip 10, ADC mean vs DAC0
χ^2 / ndf 27.47 / 11
p0 54.26 ± 0.03896
p1 2.998e-07 ± 1.064e-06
54.5
54.4
54.3
54.2
54.1
0
10000
20000
30000
40000
50000
60000



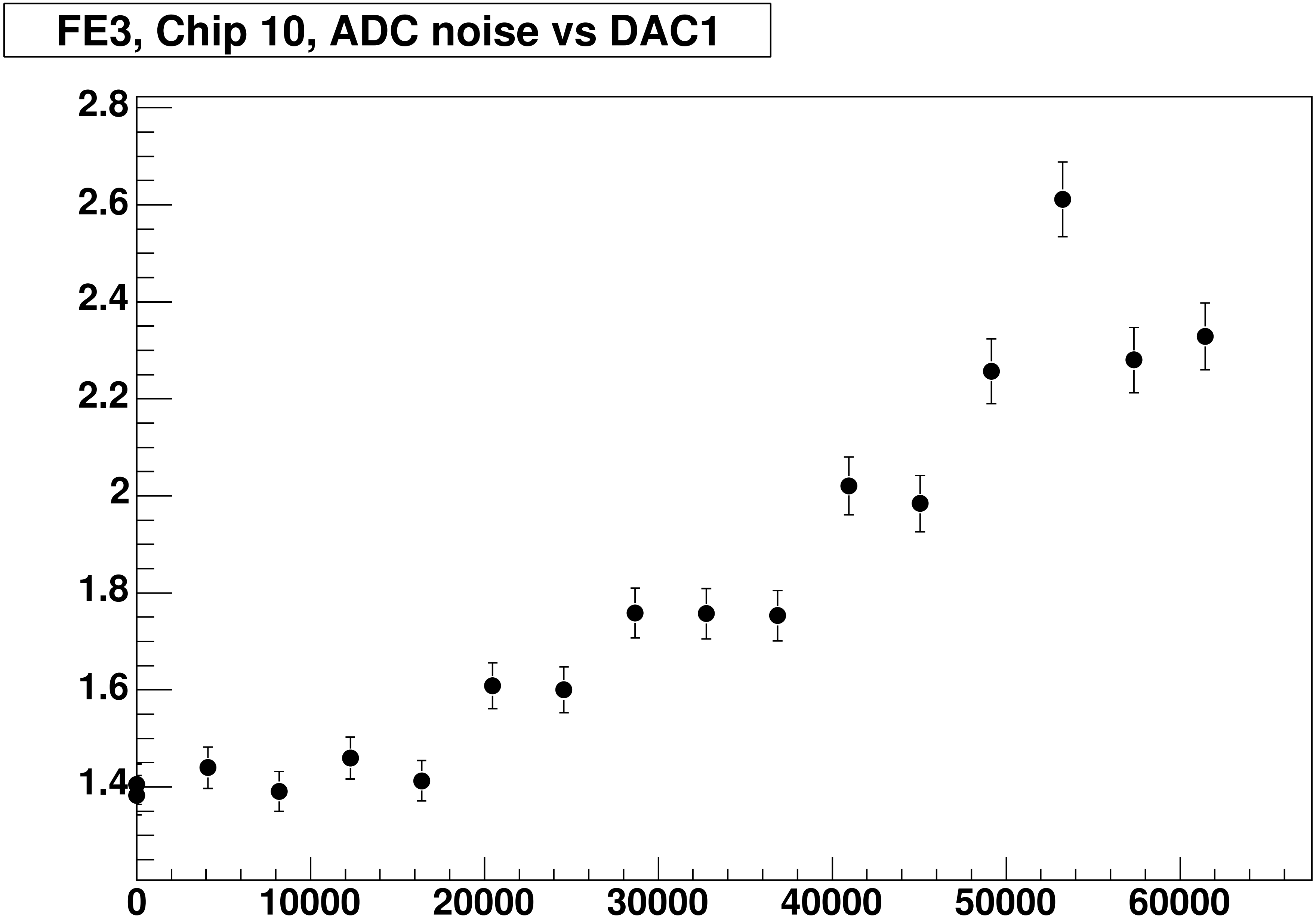
FE3, Chip 10, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

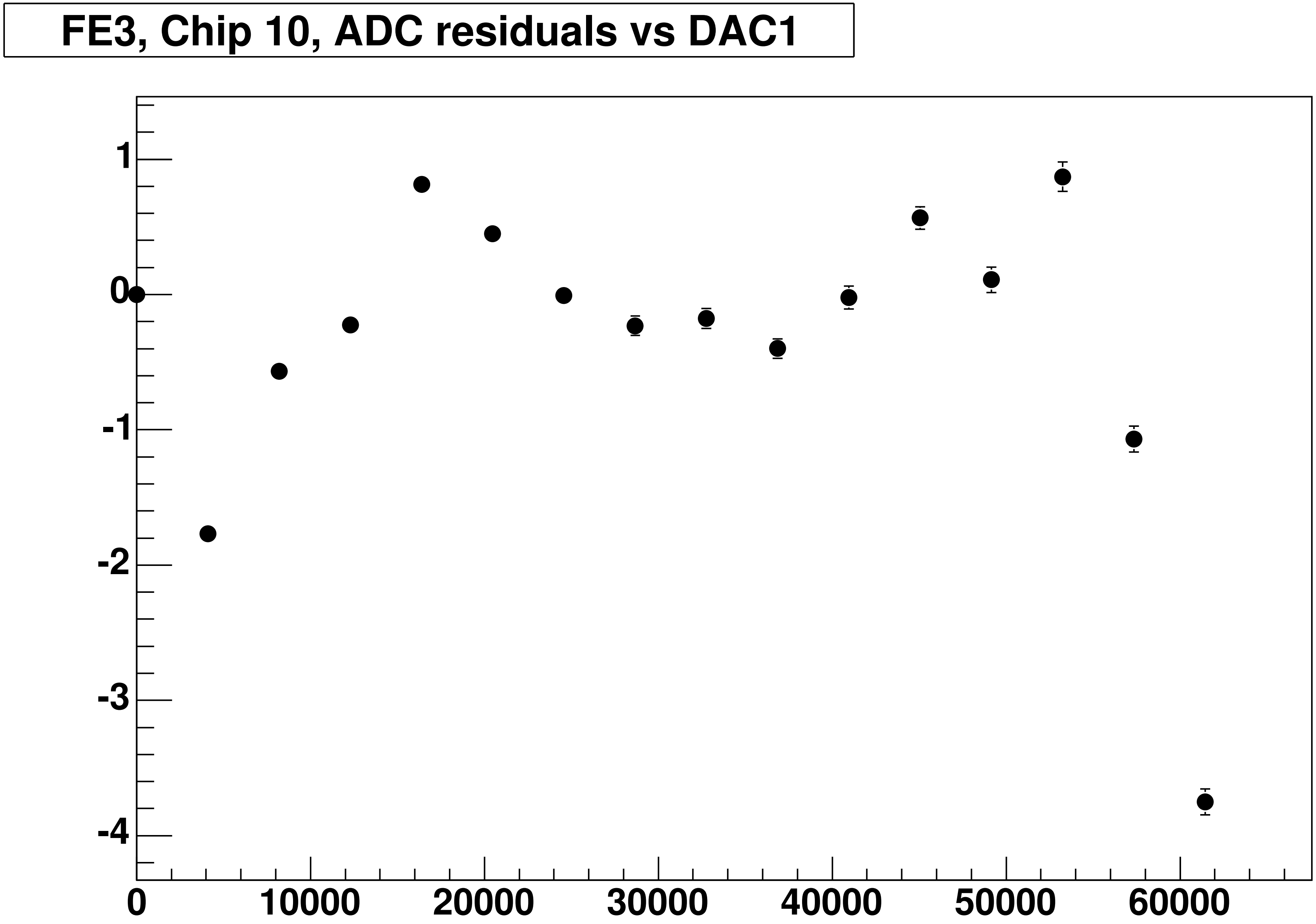


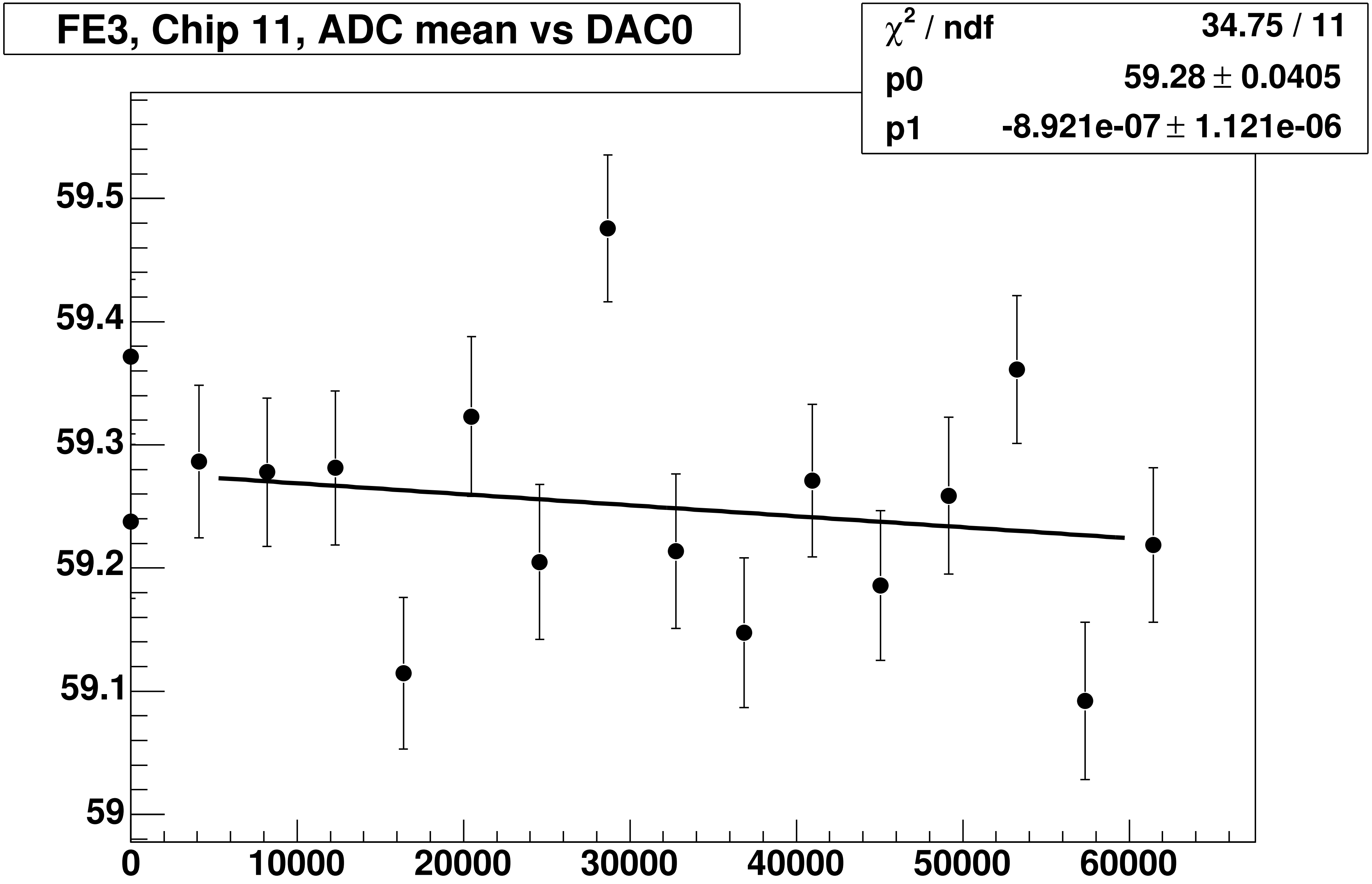
FE3, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



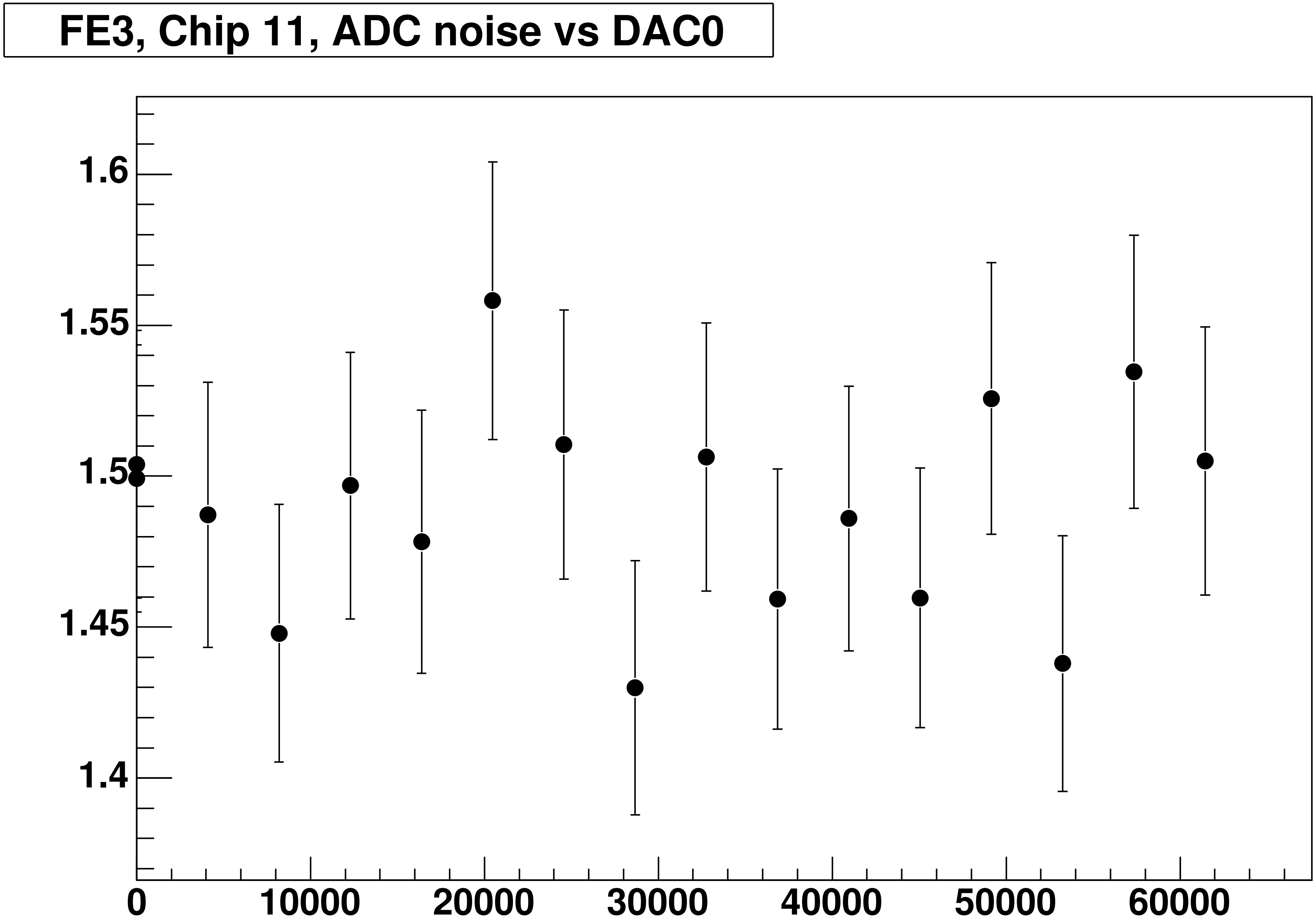
FE3, Chip 10, ADC mean vs DAC1
χ^2 / ndf 630.3 / 11
p0 57.26 ± 0.04309
p1 0.4508 ± 1.384e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

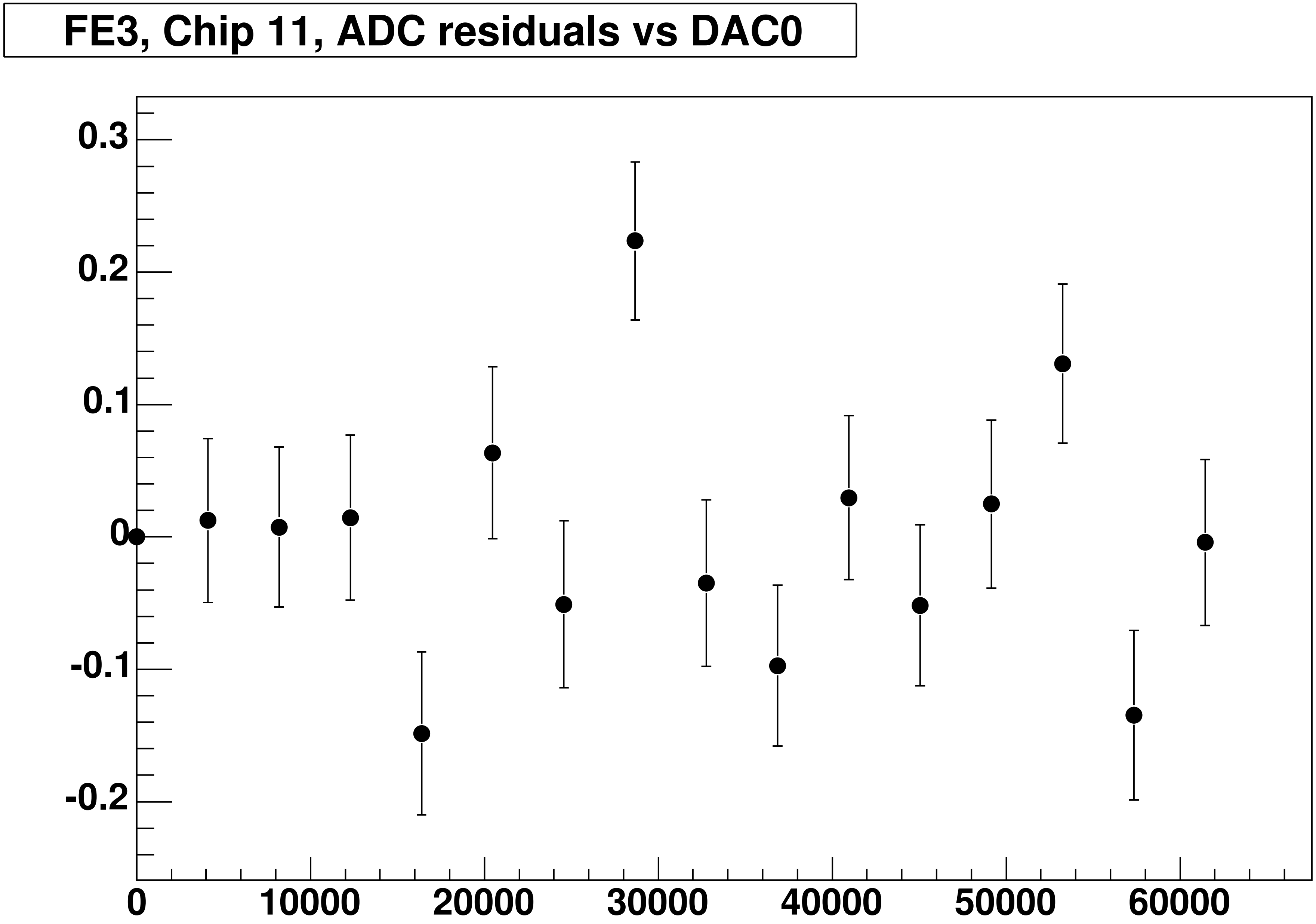

FE3, Chip 10, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

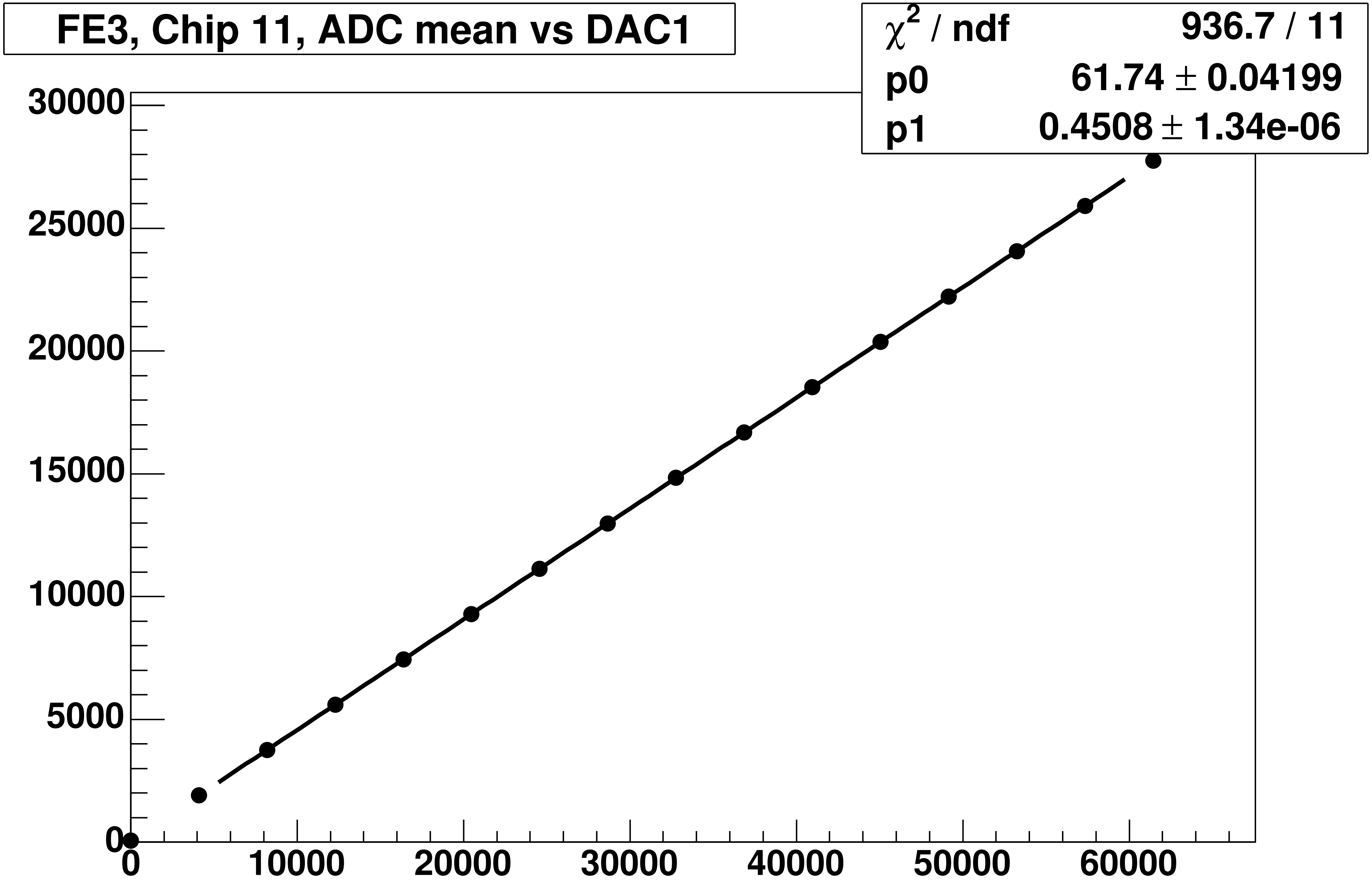

FE3, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

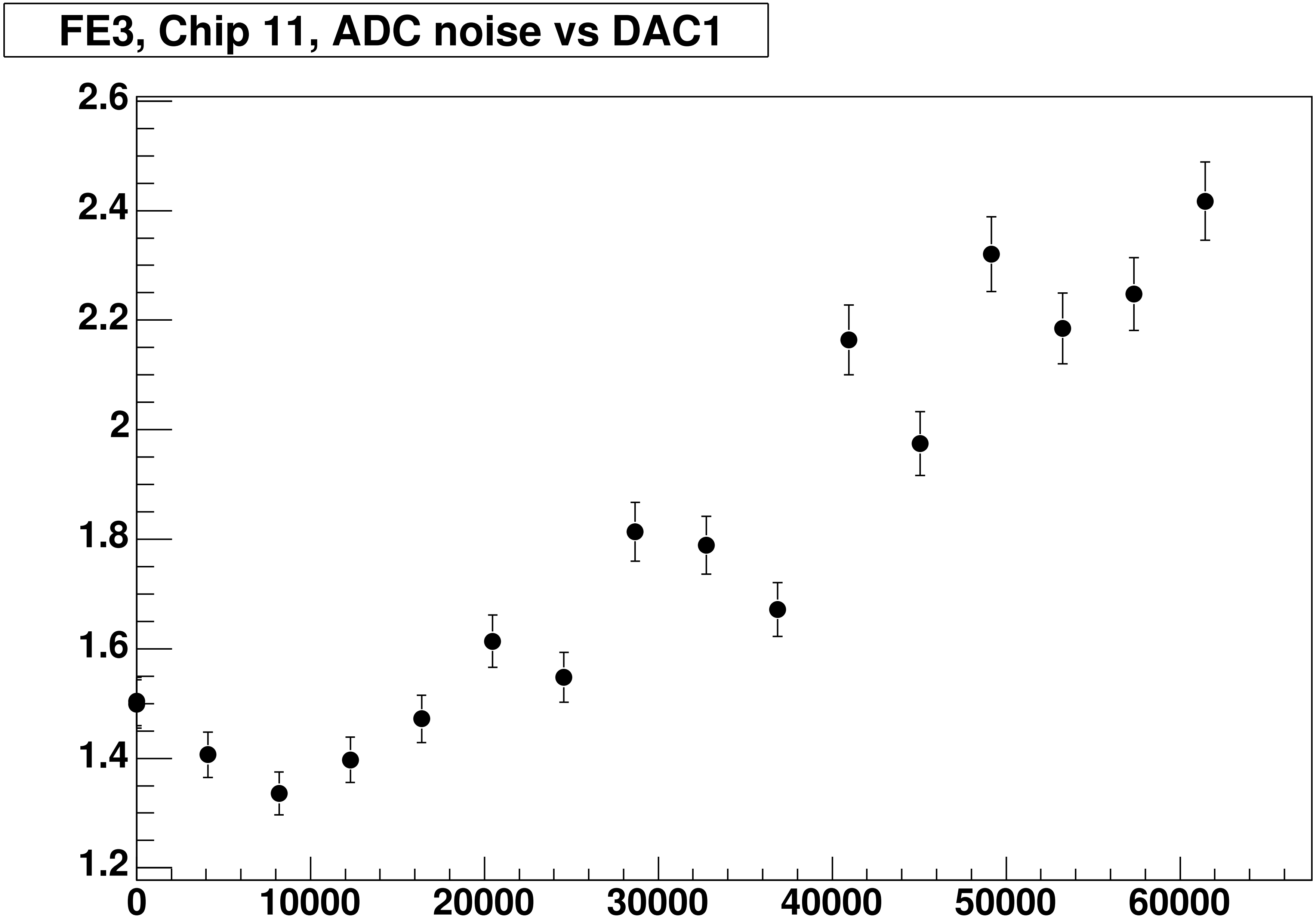


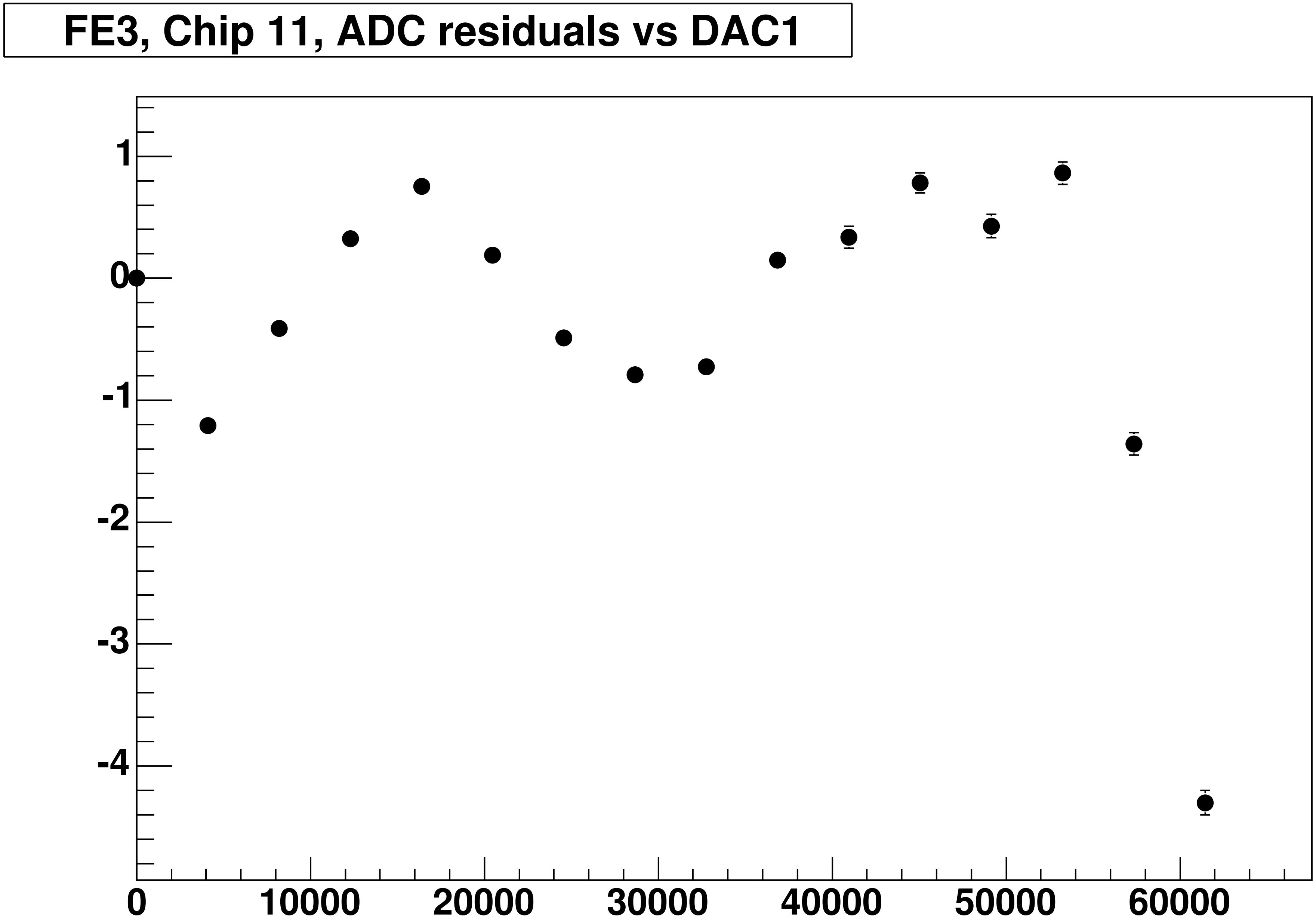
FE3, Chip 11, ADC mean vs DAC0
χ^2 / ndf 34.75 / 11
p0 59.28 ± 0.0405
p1 -8.921e-07 ± 1.121e-06
59.5
59.4
59.3
59.2
59.1
59
0
10000
20000
30000
40000
50000
60000

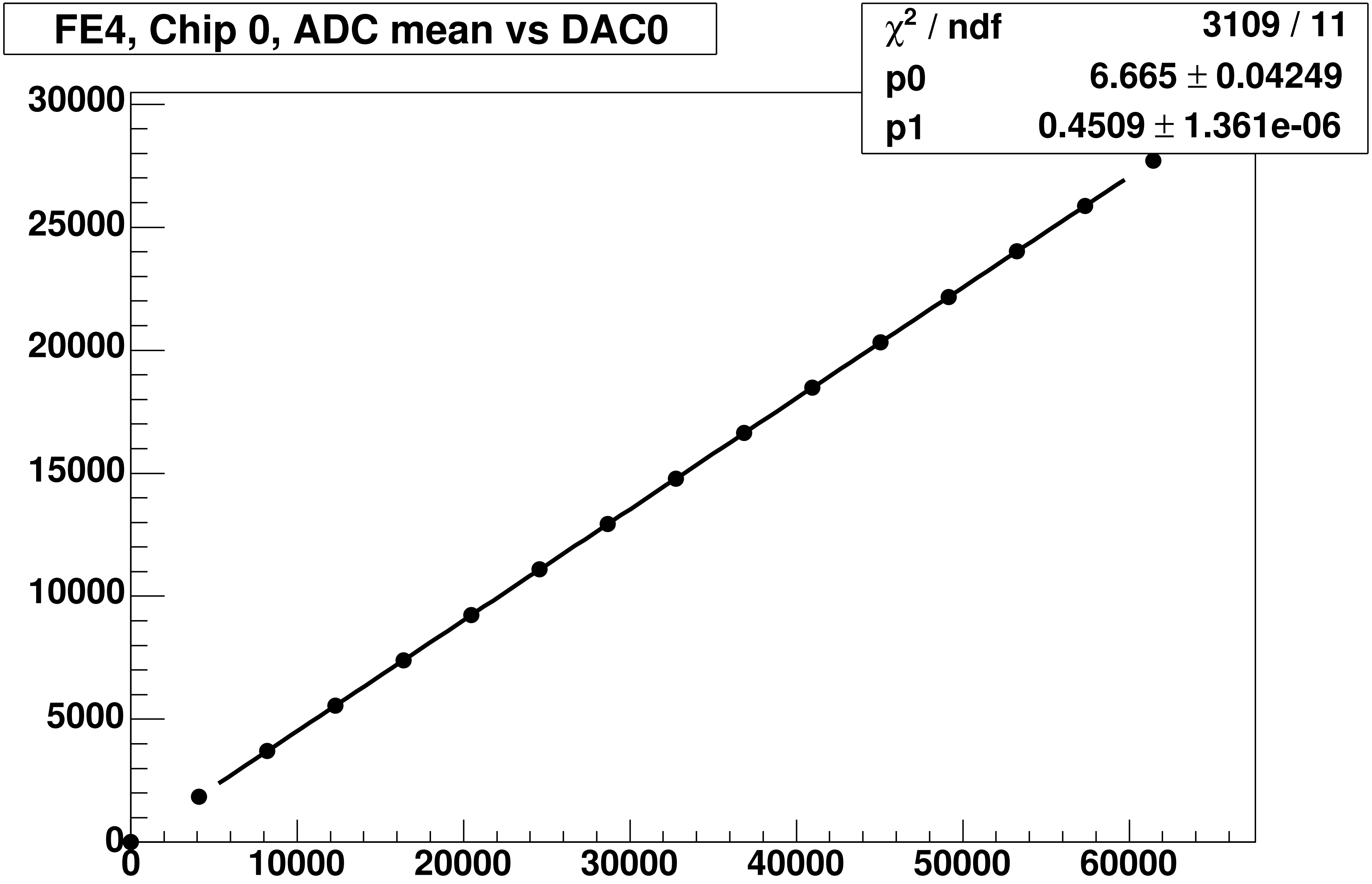

FE3, Chip 11, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


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

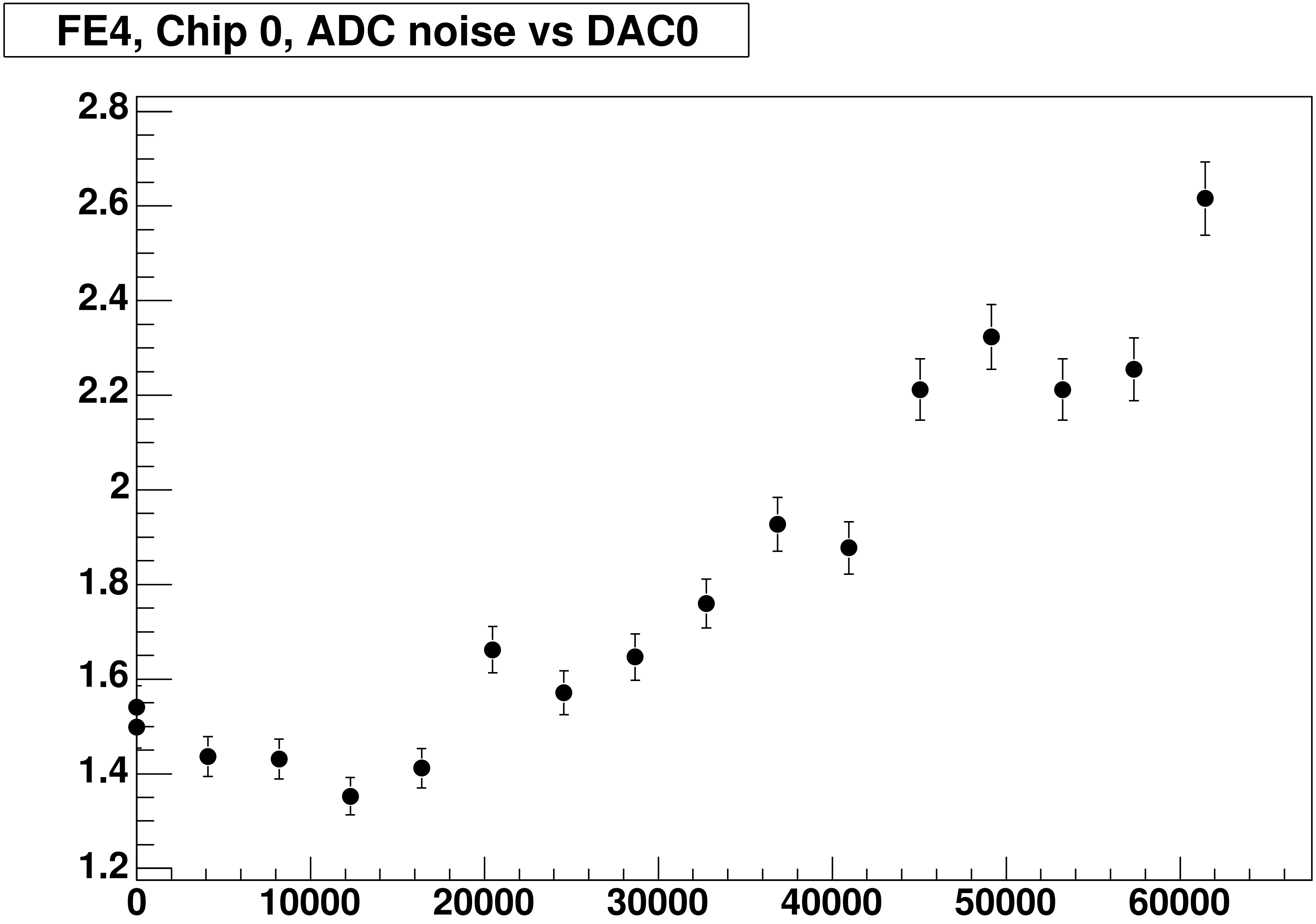

FE3, Chip 11, ADC mean vs DAC1
χ^2 / ndf 936.7 / 11
p0 61.74 ± 0.04199
p1 0.4508 ± 1.34e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

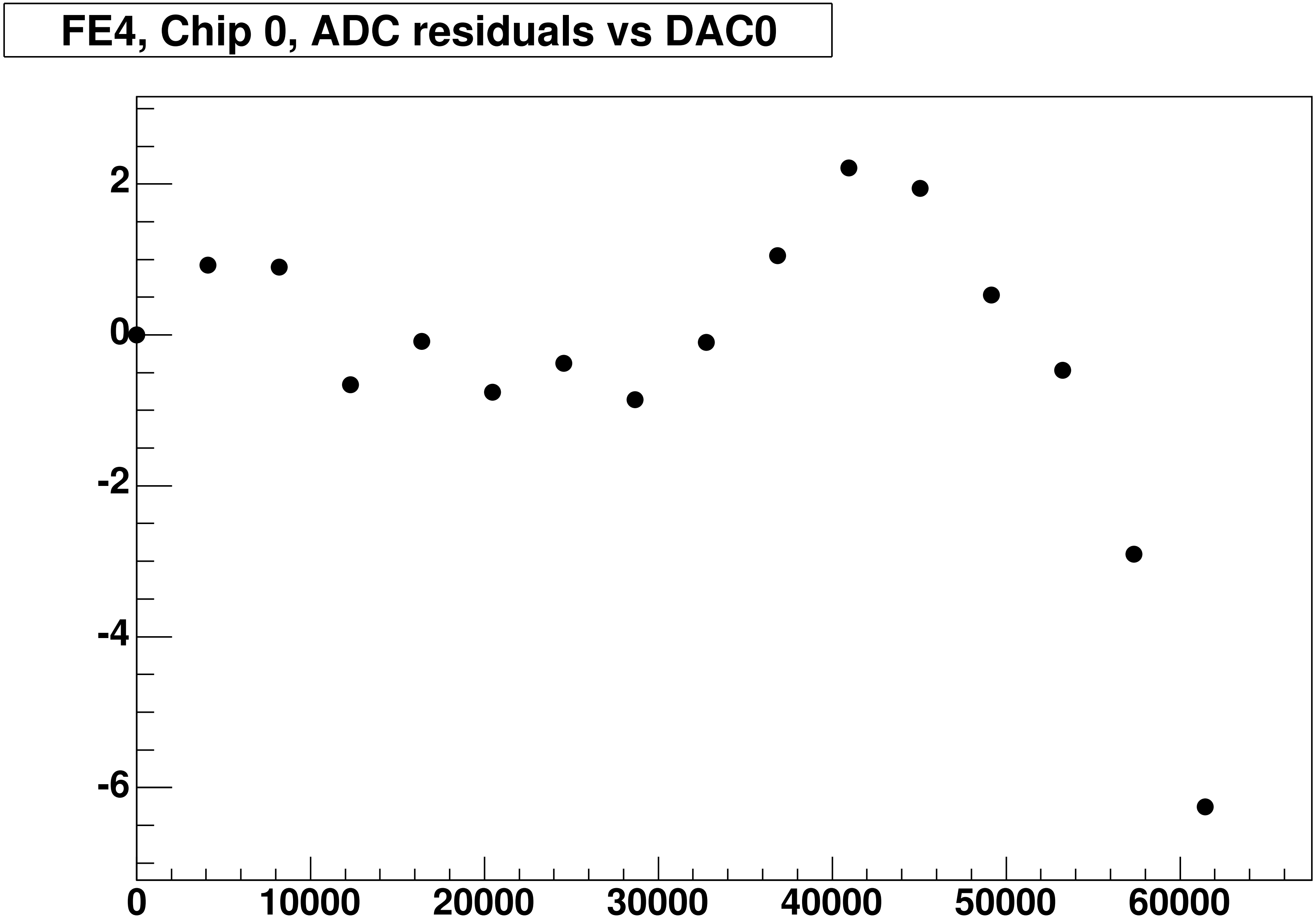

FE3, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

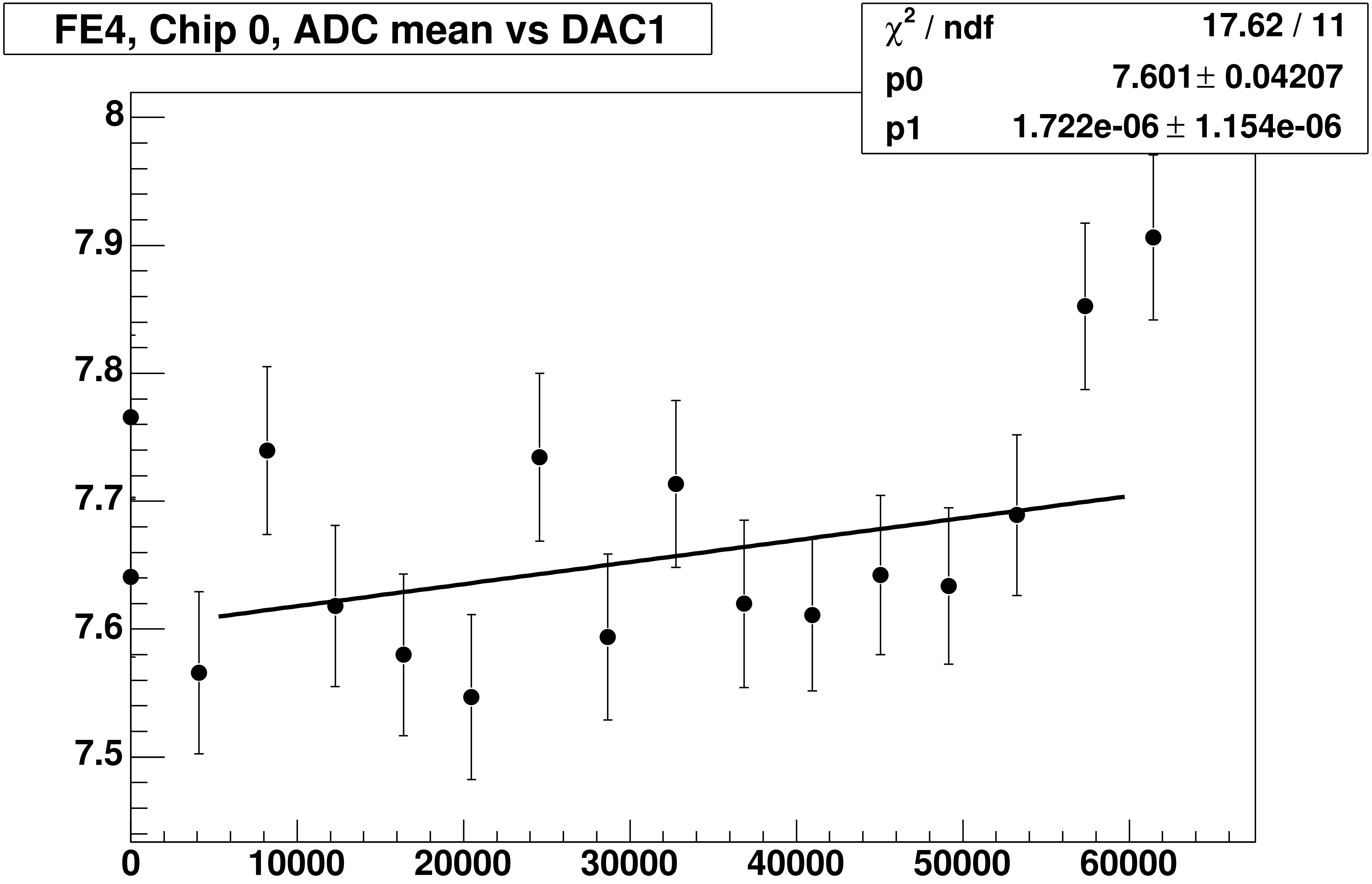


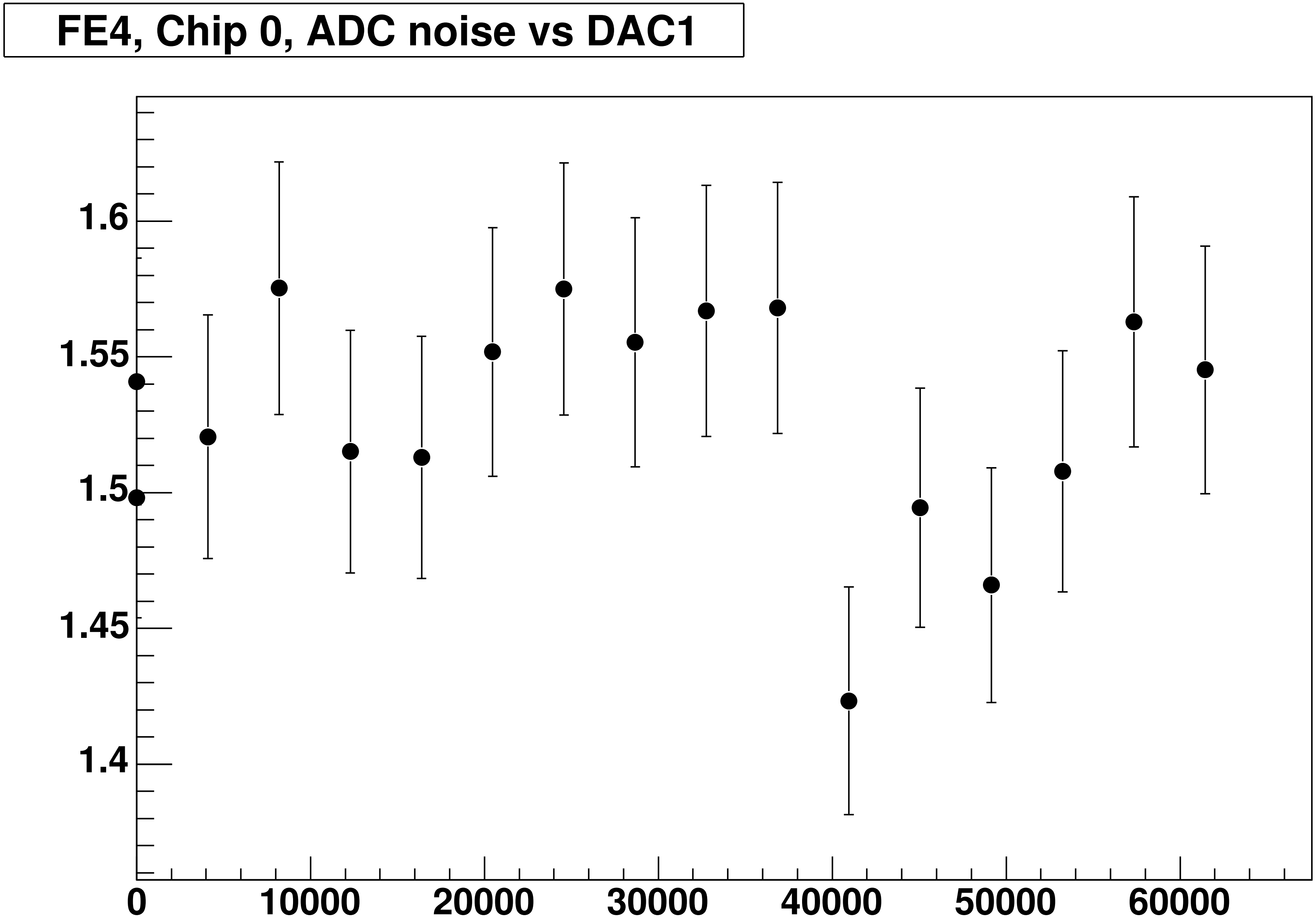
FE4, Chip 0, ADC mean vs DAC0
χ^2 / ndf 3109 / 11
p0 6.665 ± 0.04249
p1 0.4509 ± 1.361e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

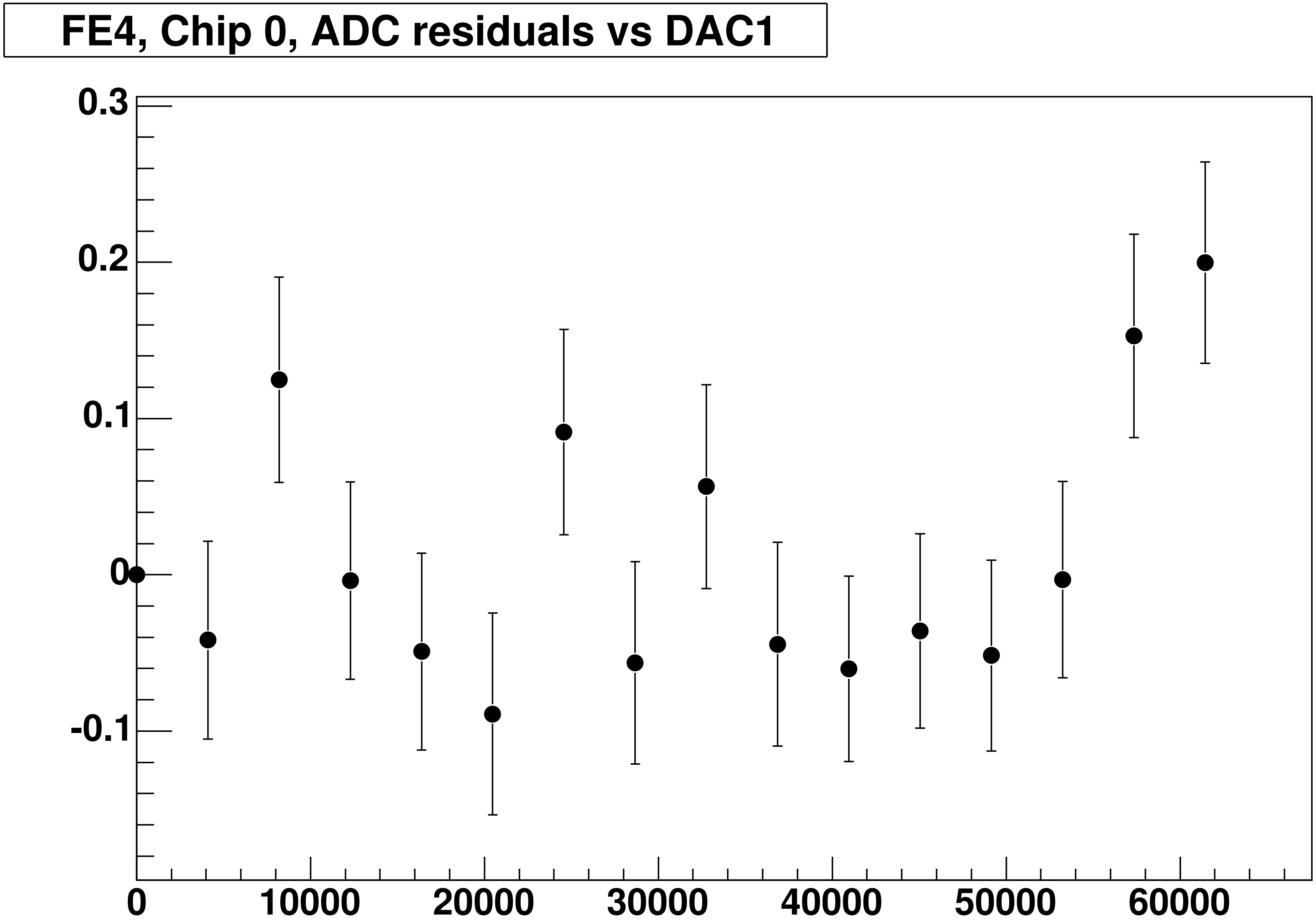

FE4, Chip 0, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

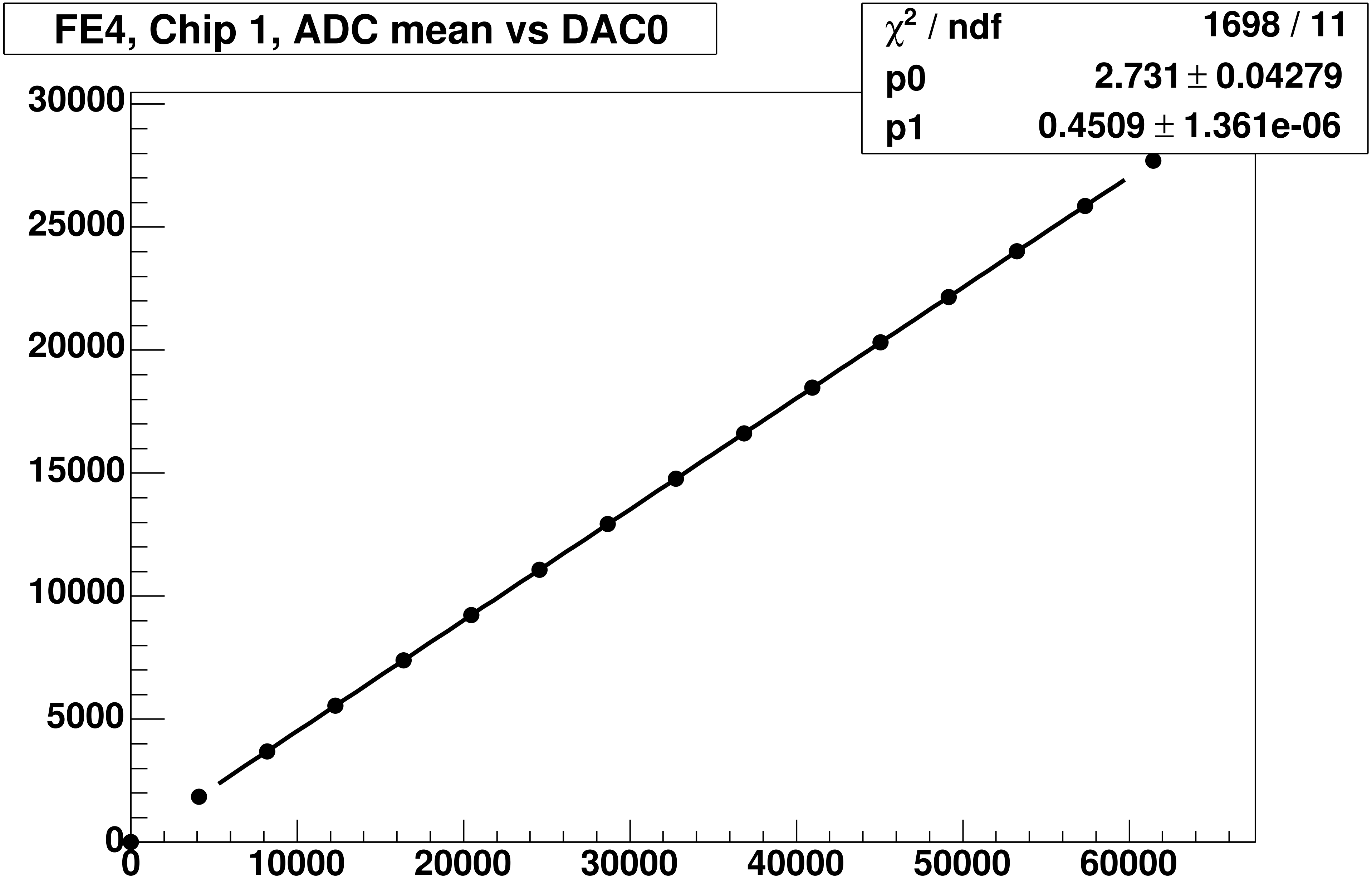


FE4, Chip 0, ADC residuals vs DAC0
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

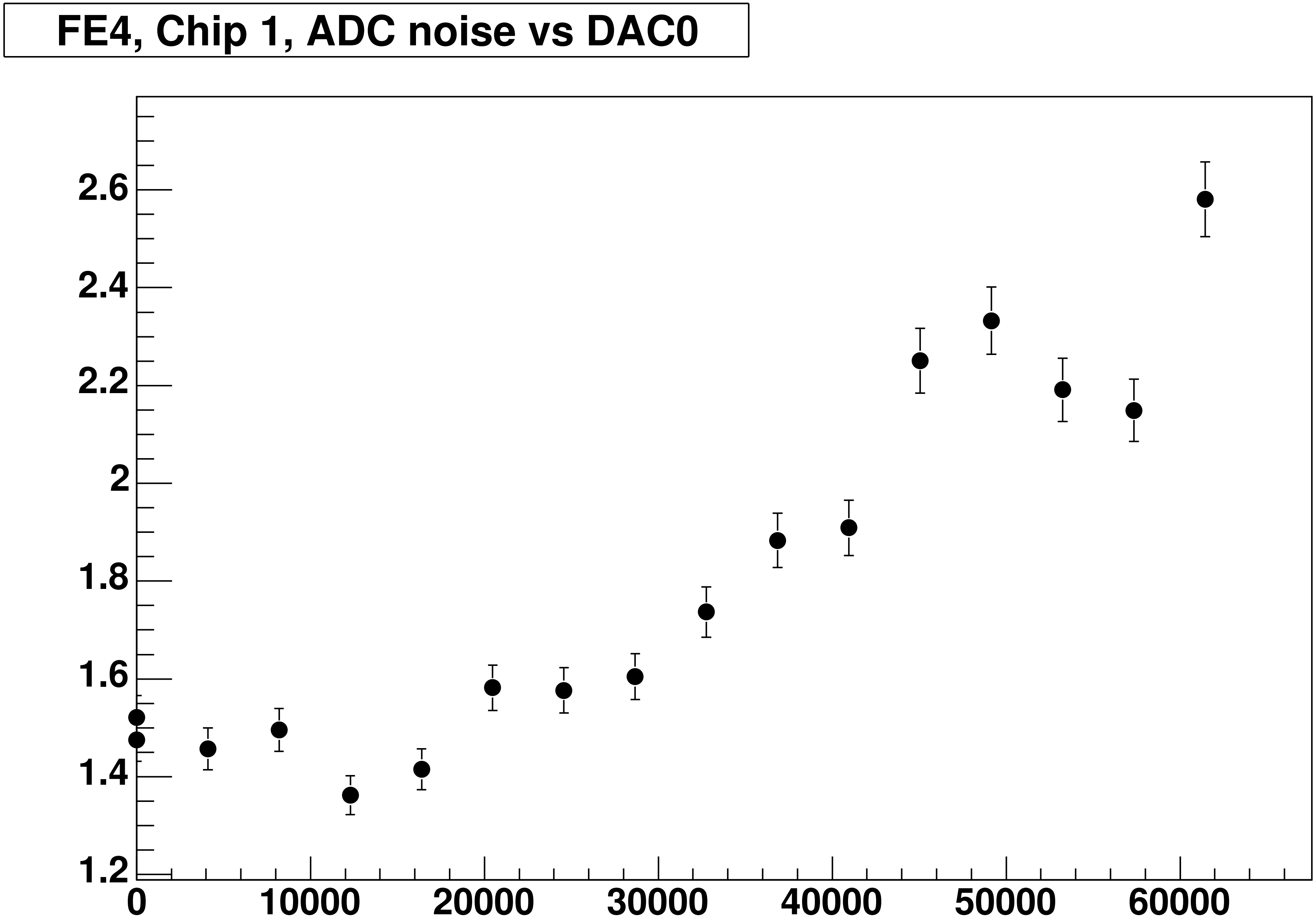

FE4, Chip 0, ADC mean vs DAC1
χ^2 / ndf 17.62 / 11
p0 7.601 ± 0.04207
p1 1.722e-06 ± 1.154e-06
8
7.9
7.8
7.7
7.6
7.5
0
10000
20000
30000
40000
50000
60000

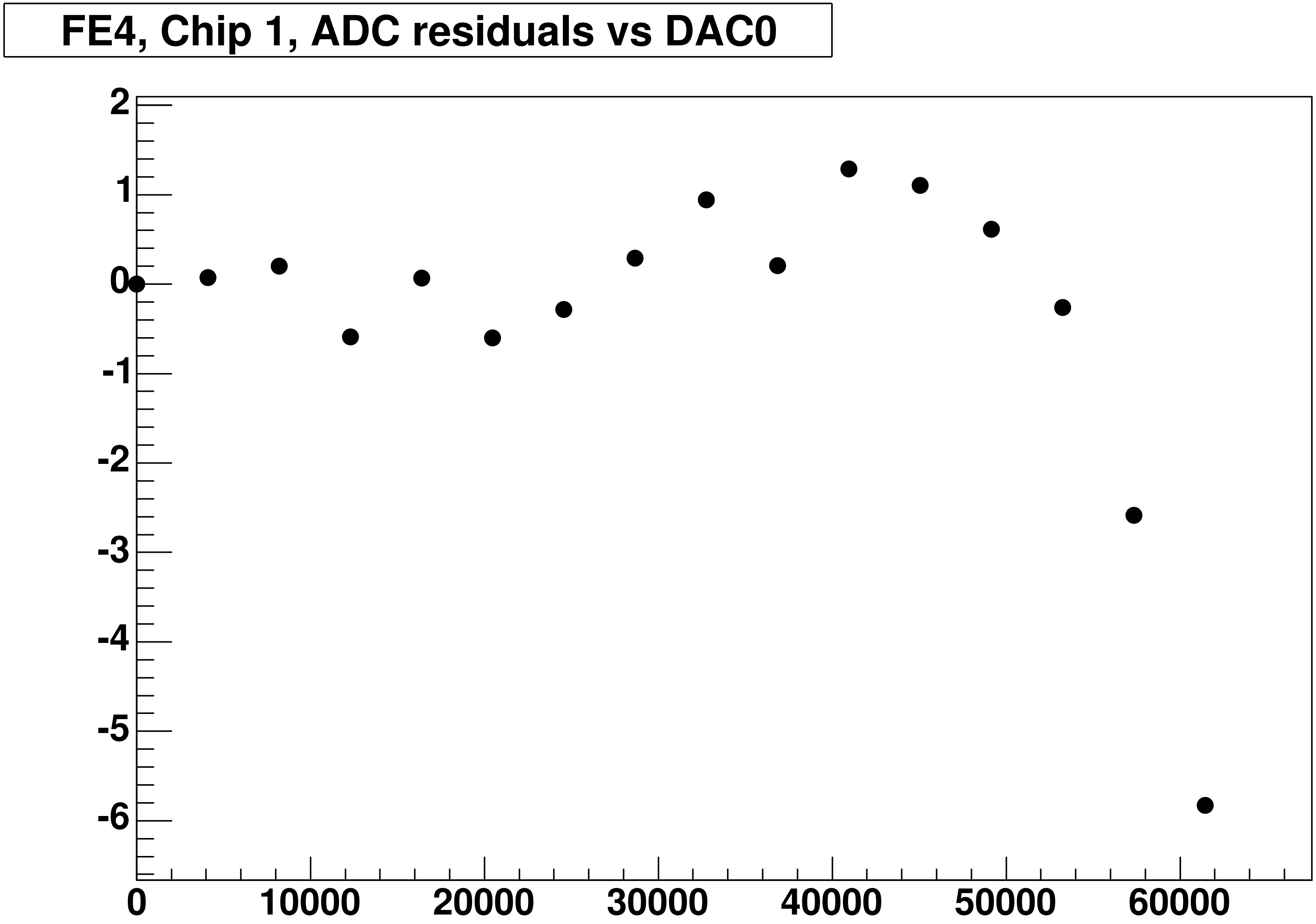

FE4, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


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

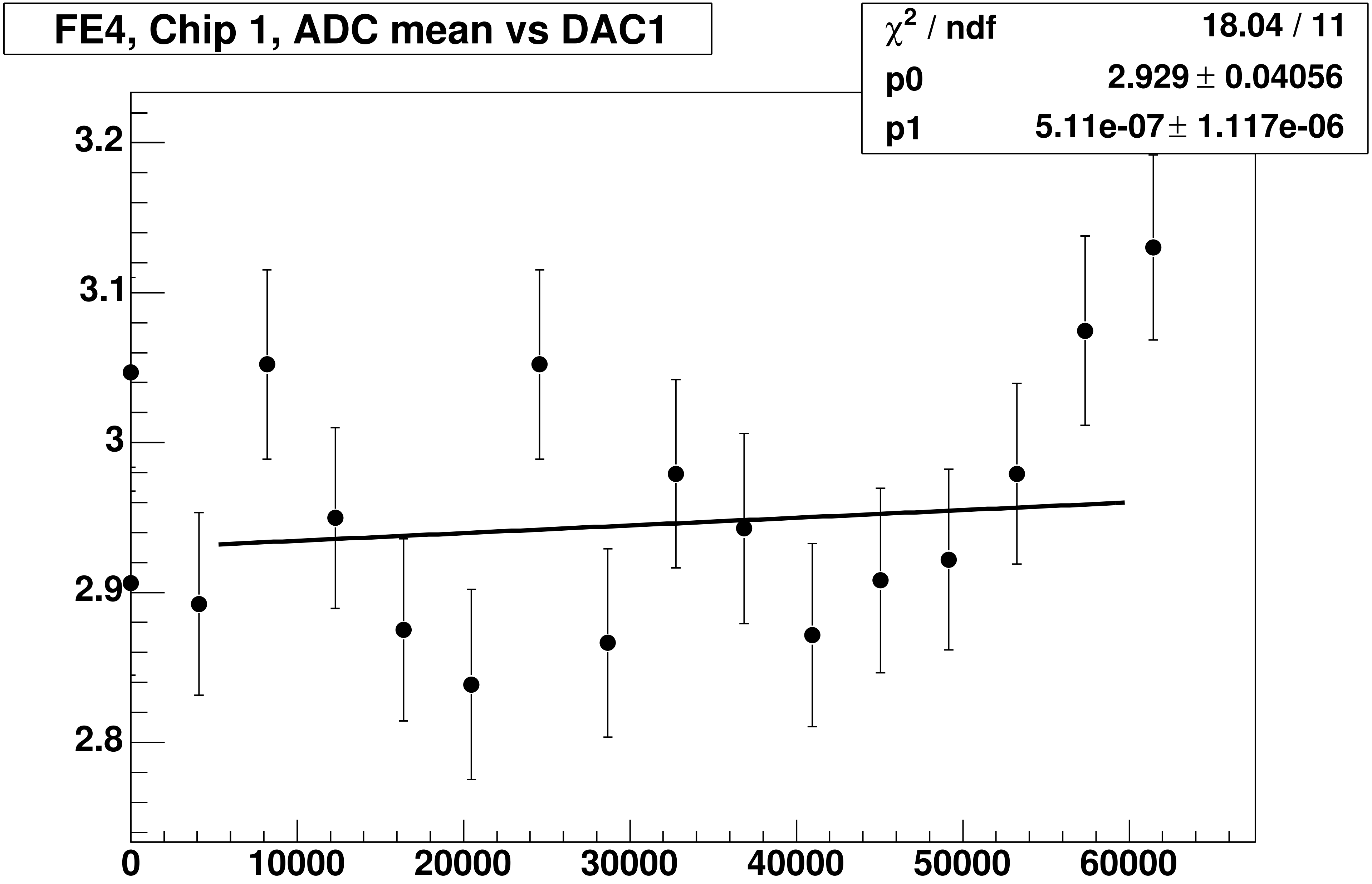


FE4, Chip 1, ADC mean vs DAC0
χ2 / ndf 1698 / 11
p0 2.731 ± 0.04279
p1 0.4509 ± 1.361e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

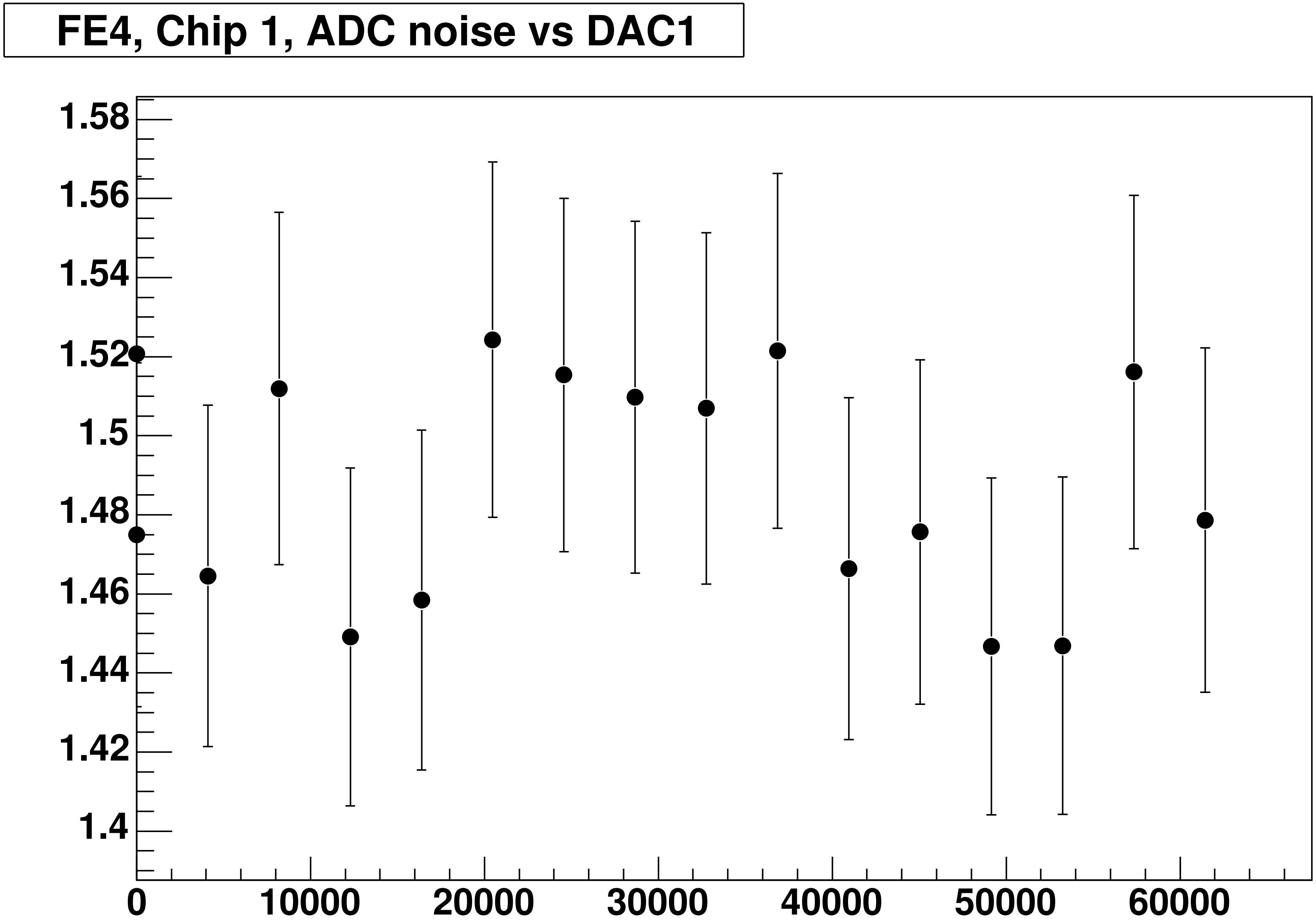

FE4, Chip 1, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



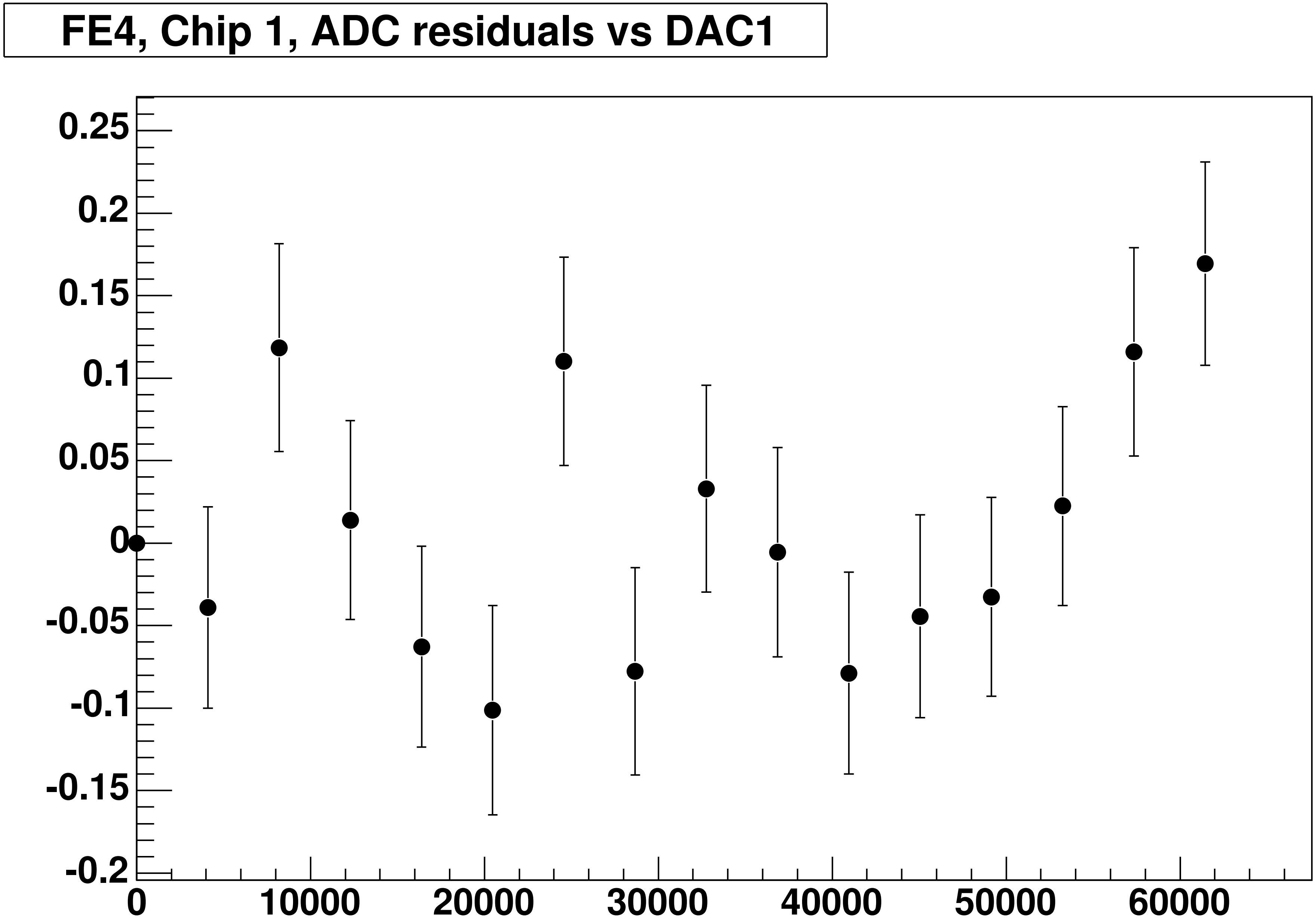
FE4, Chip 1, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

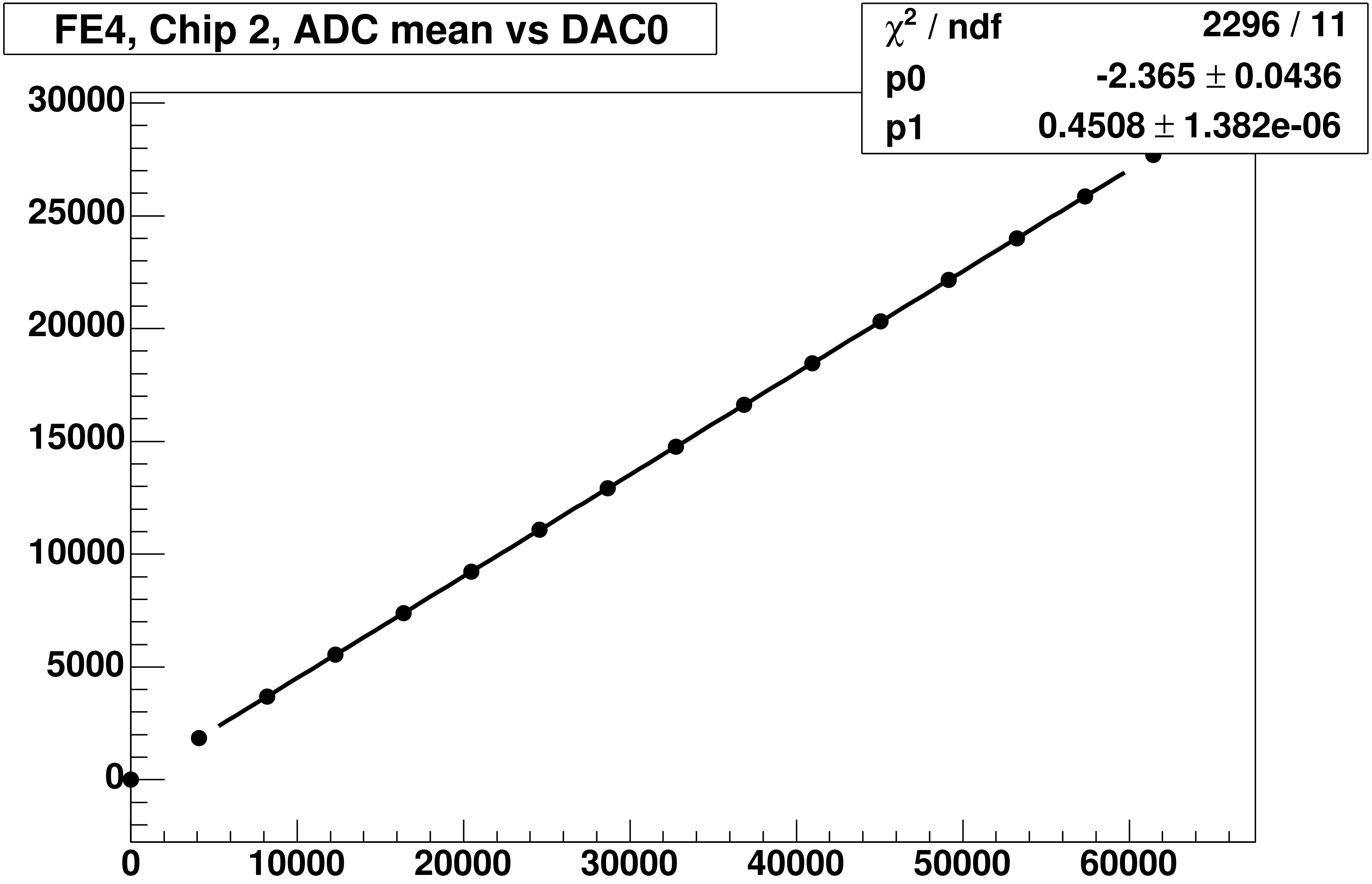


FE4, Chip 1, ADC mean vs DAC1
χ^2 / ndf 18.04 / 11
p0 2.929 ± 0.04056
p1 5.11e-07 ± 1.117e-06
3.2
3.1
3
2.9
2.8
0
10000
20000
30000
40000
50000
60000

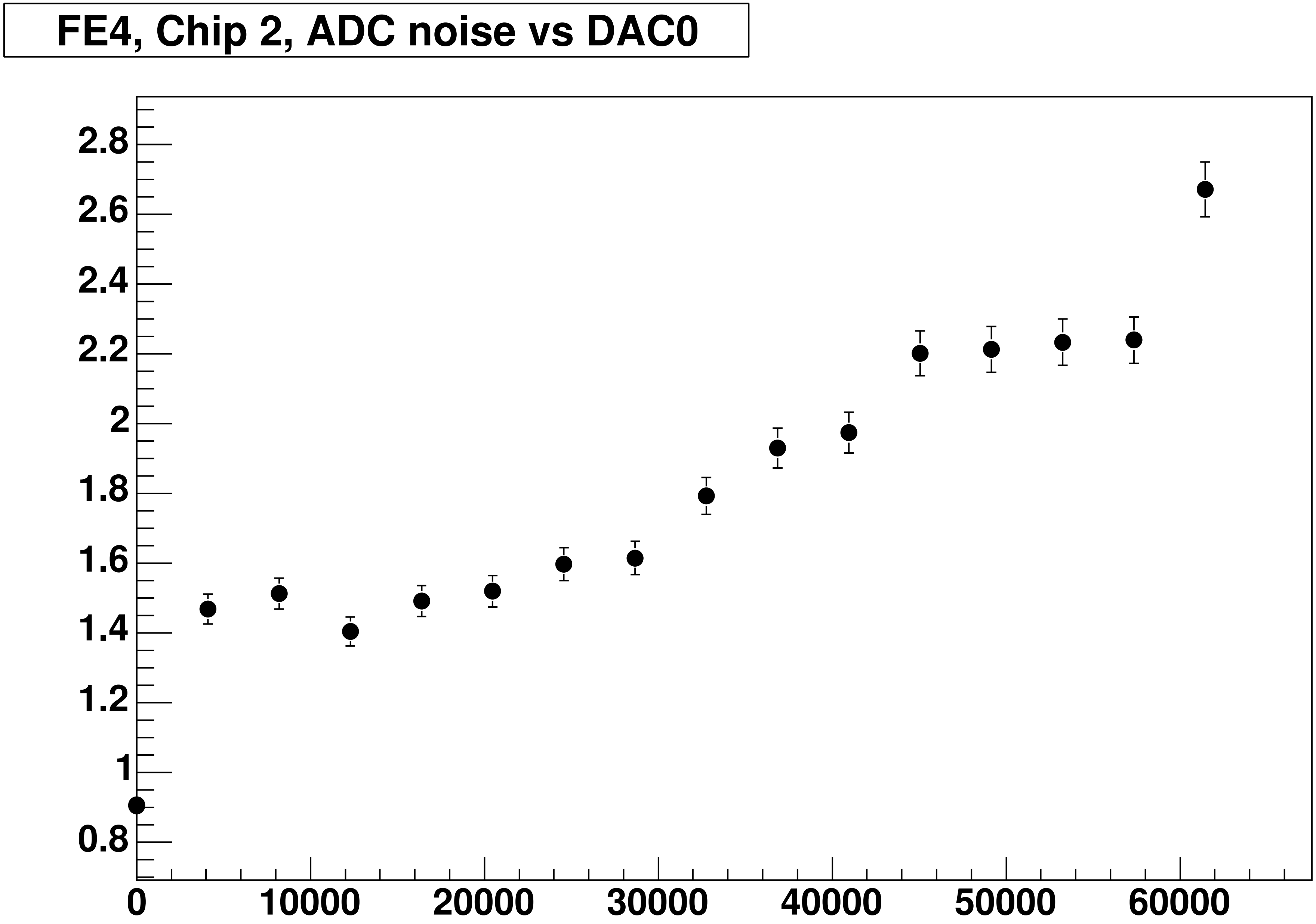


FE4, Chip 1, ADC noise vs DAC1
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
0
10000
20000
30000
40000
50000
60000

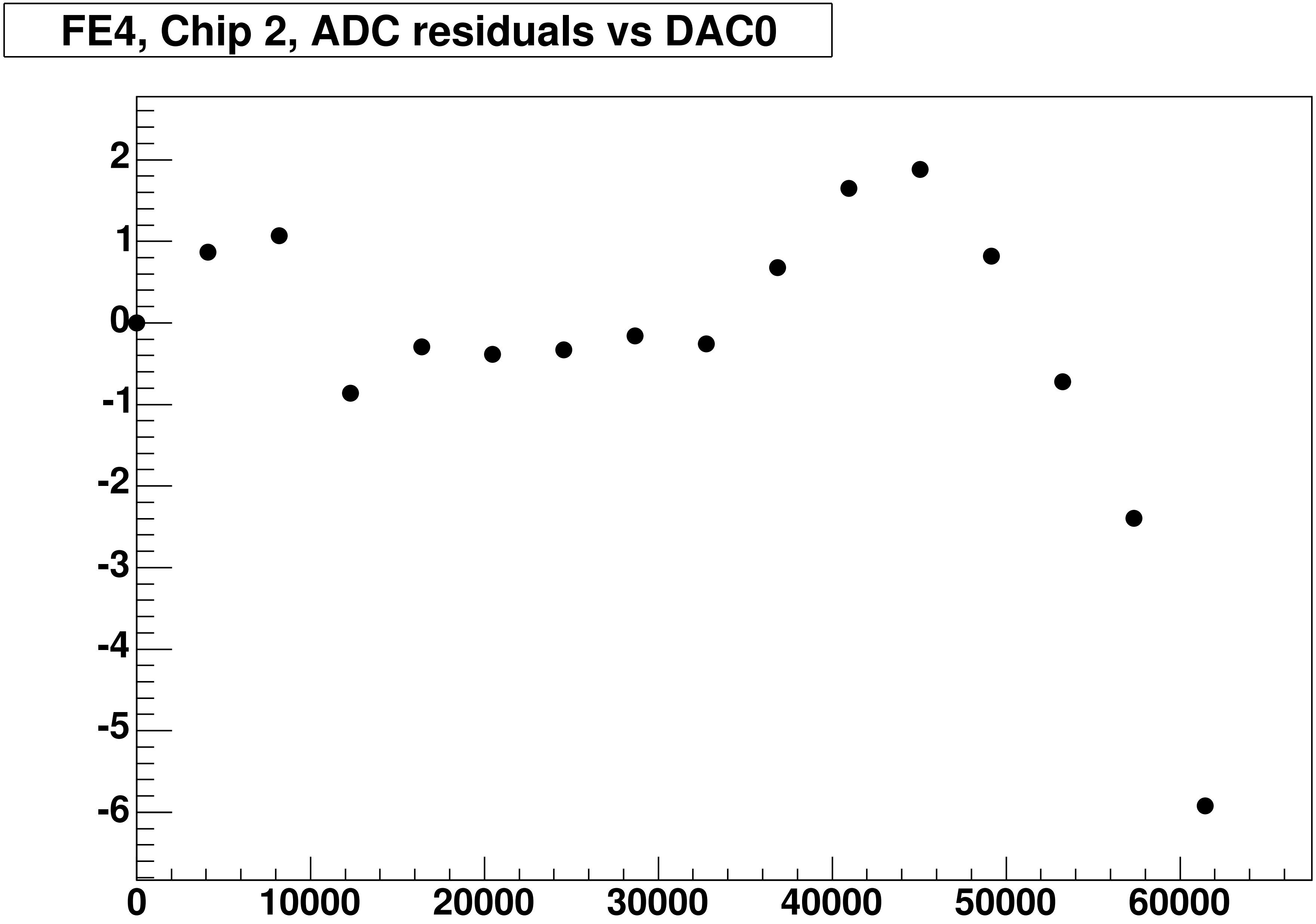

FE4, Chip 1, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



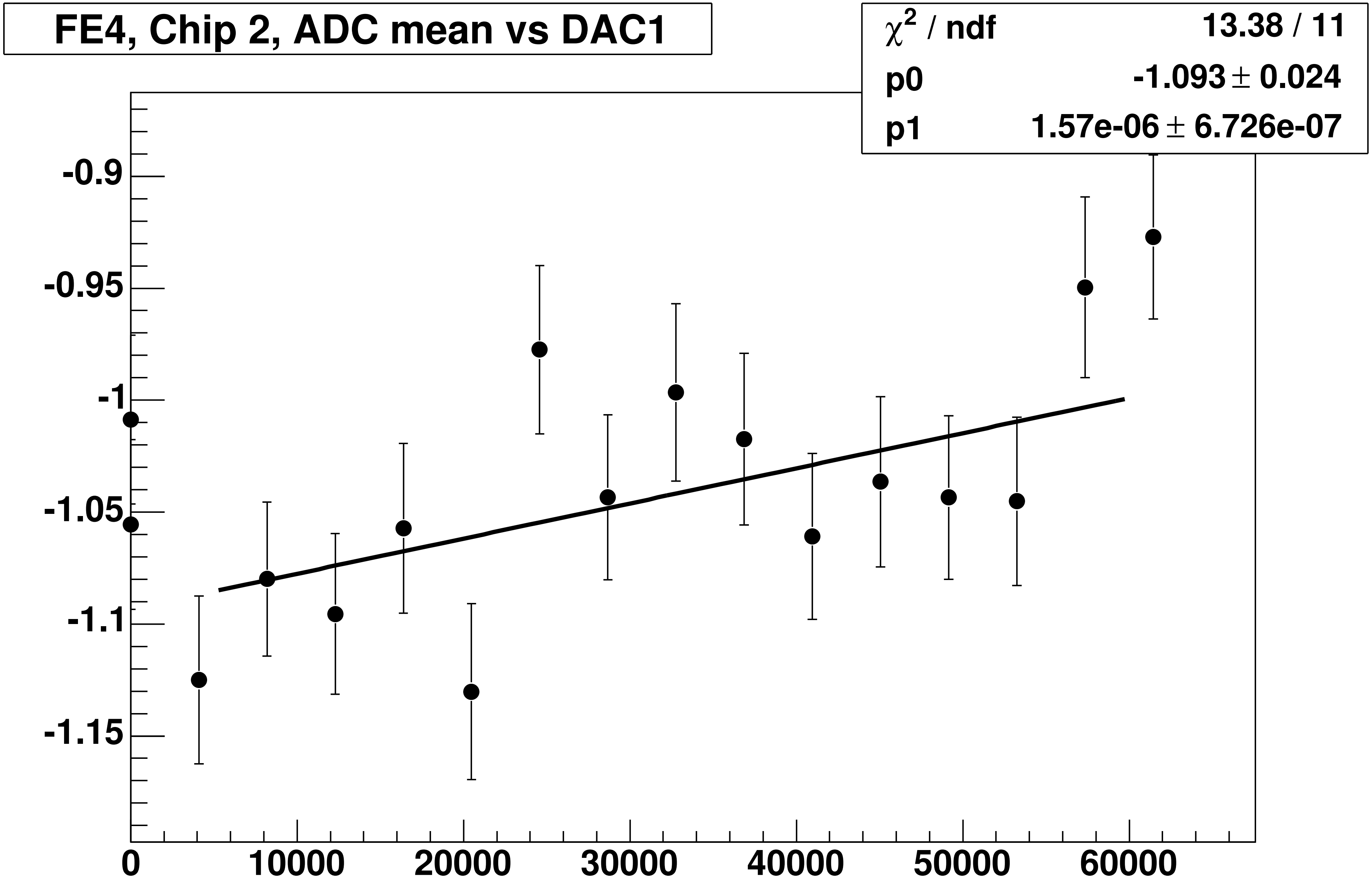
FE4, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2296 / 11
p0 -2.365 ± 0.0436
p1 0.4508 ± 1.382e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



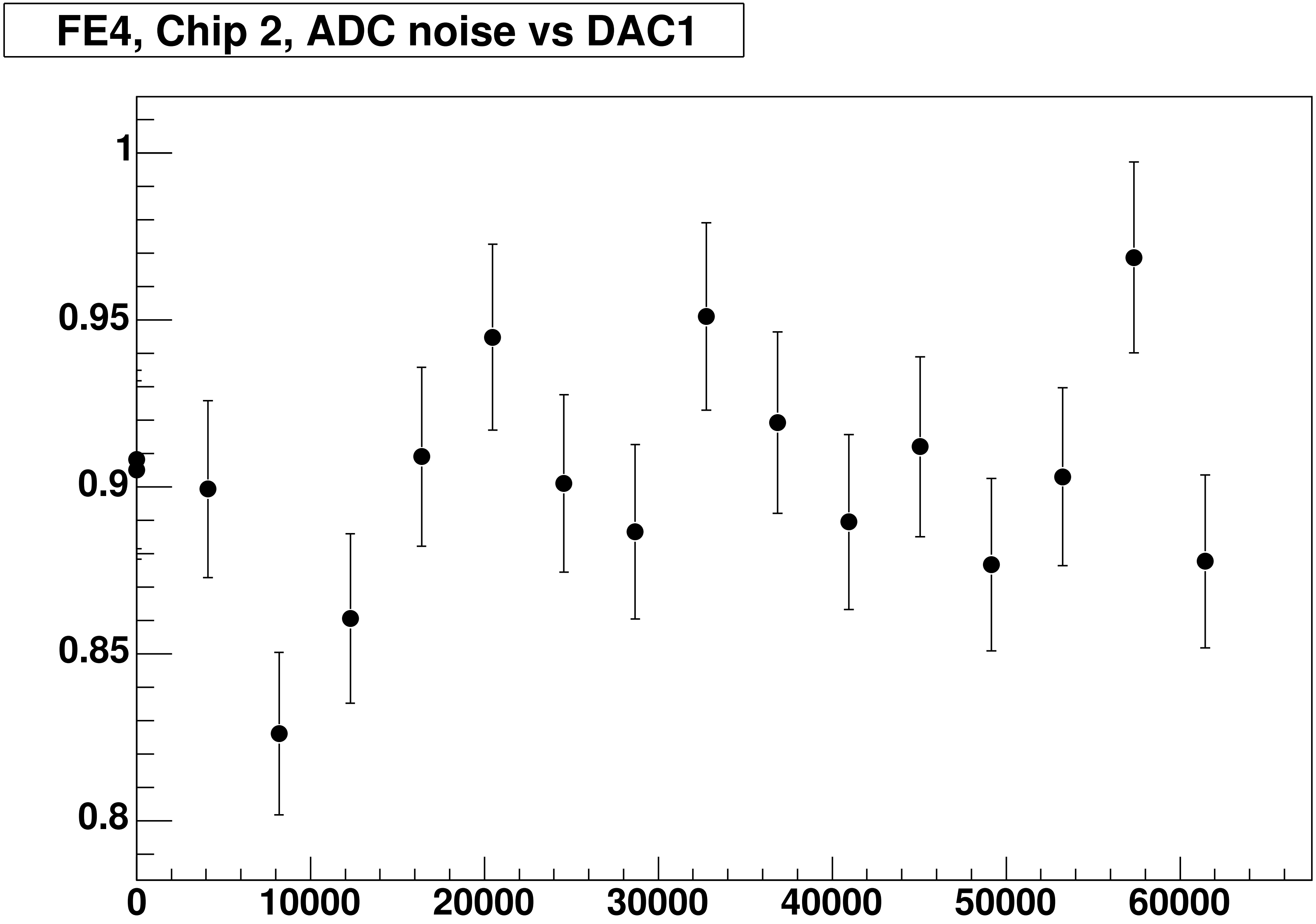
FE4, Chip 2, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0
10000
20000
30000
40000
50000
60000



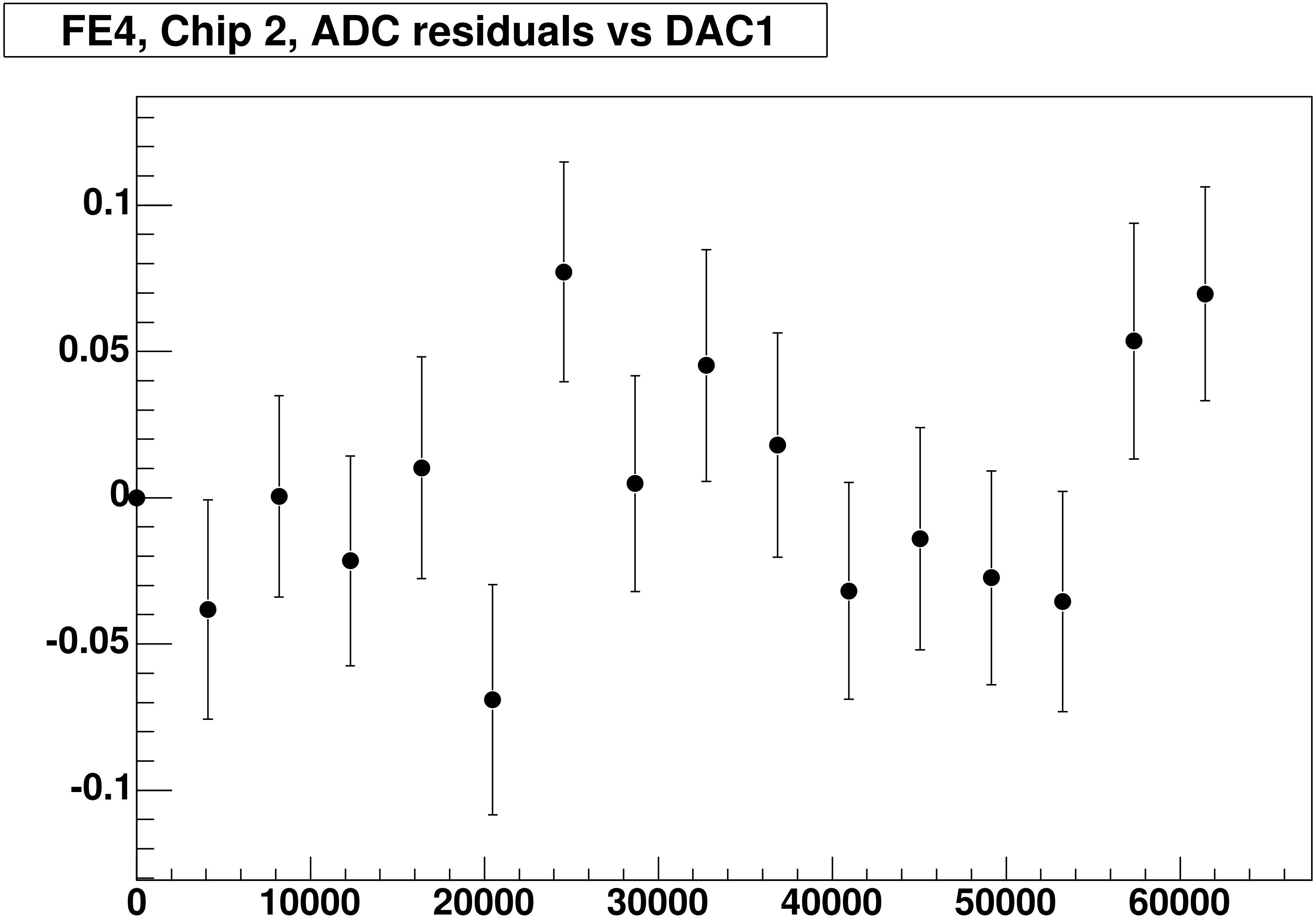
FE4, Chip 2, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



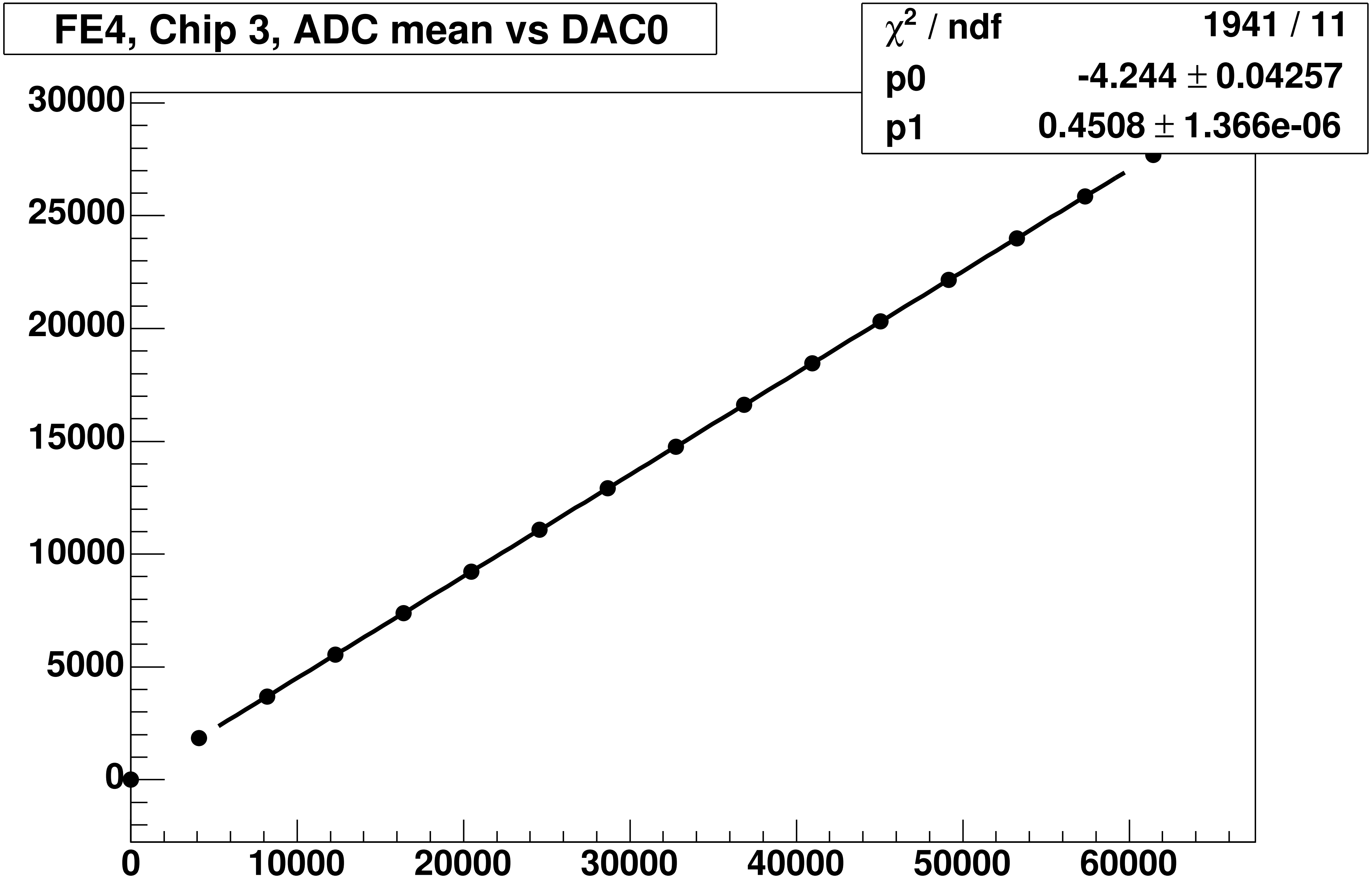
FE4, Chip 2, ADC mean vs DAC1
χ^2 / ndf 13.38 / 11
p0 -1.093 ± 0.024
p1 1.57e-06 ± 6.726e-07
-0.9
-0.95
-1
-1.05
-1.1
-1.15
0
10000
20000
30000
40000
50000
60000



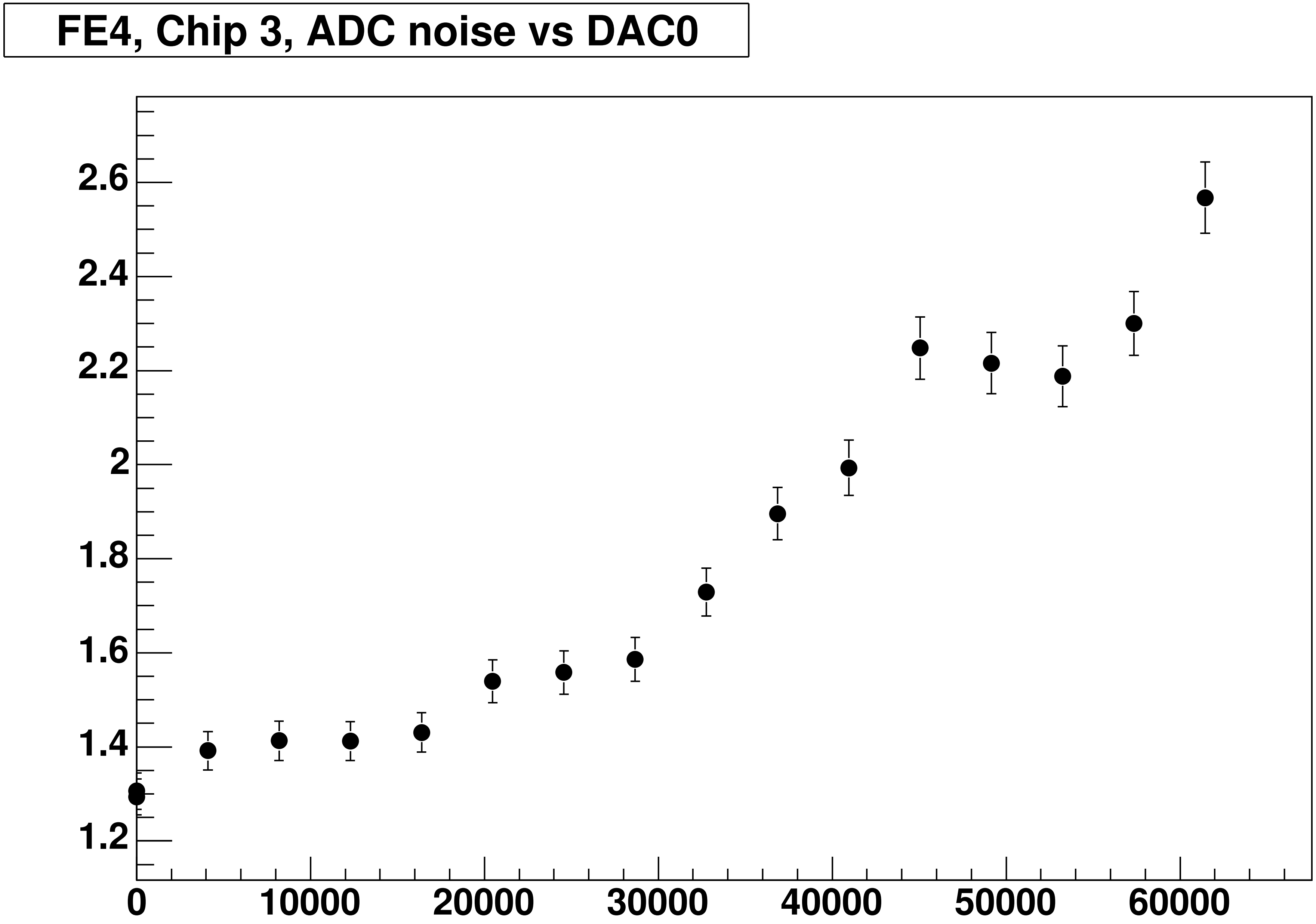
FE4, Chip 2, ADC noise vs DAC1
1
0.95
0.9
0.85
0.8
0
10000
20000
30000
40000
50000
60000



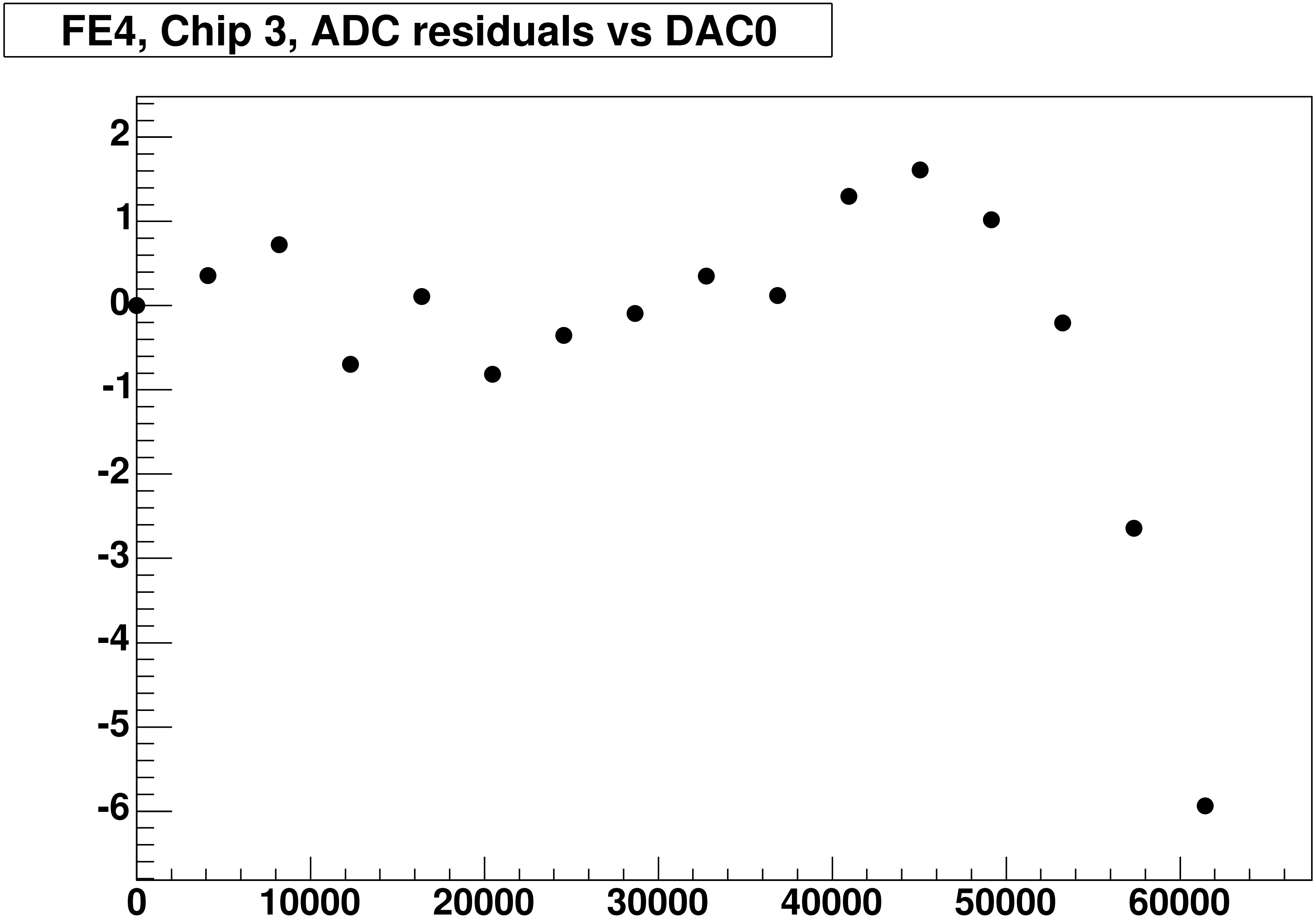
FE4, Chip 2, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
10000
20000
30000
40000
50000
60000



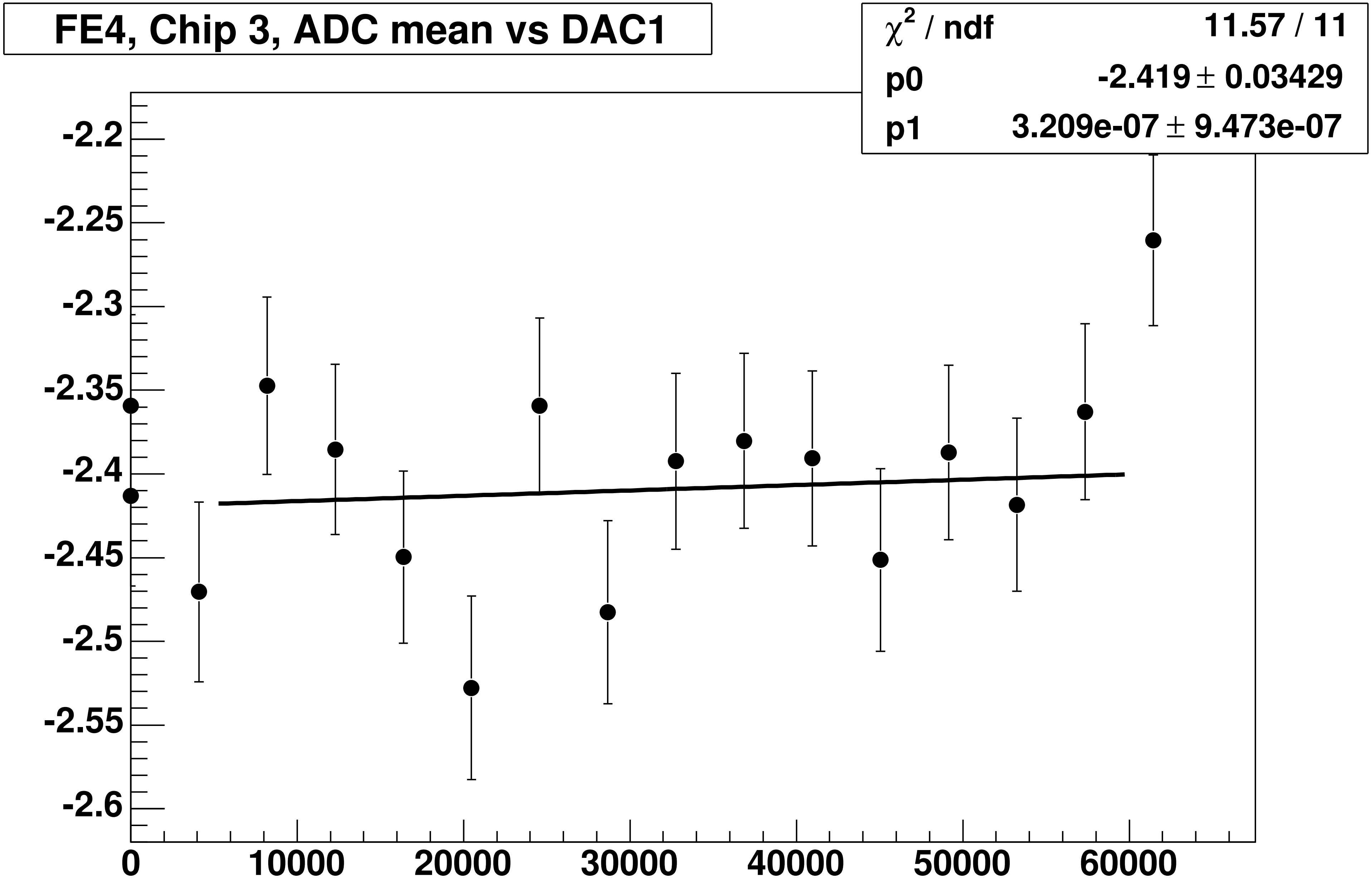
FE4, Chip 3, ADC mean vs DAC0
χ2 / ndf 1941 / 11
p0 -4.244 ± 0.04257
p1 0.4508 ± 1.366e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



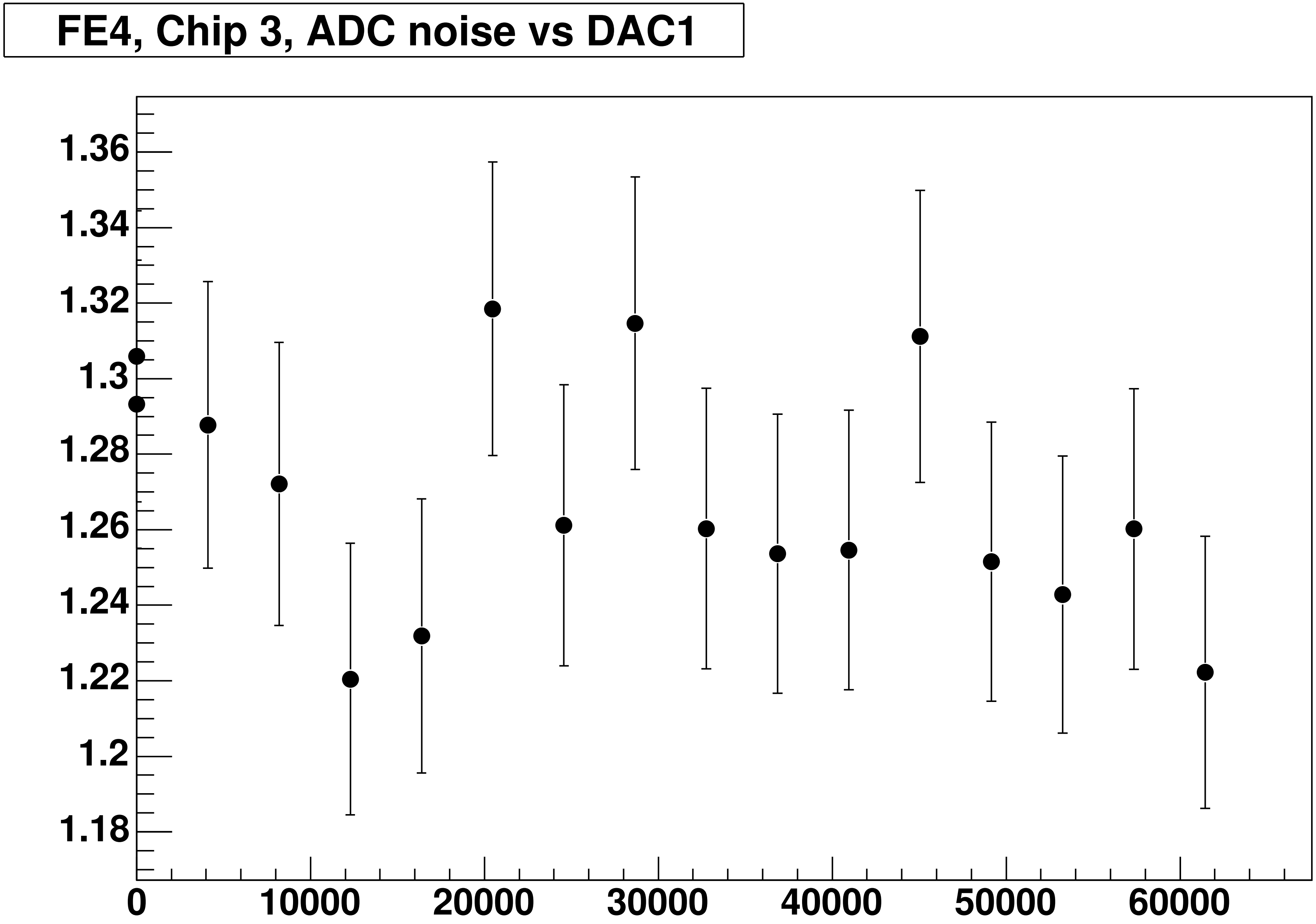
FE4, Chip 3, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

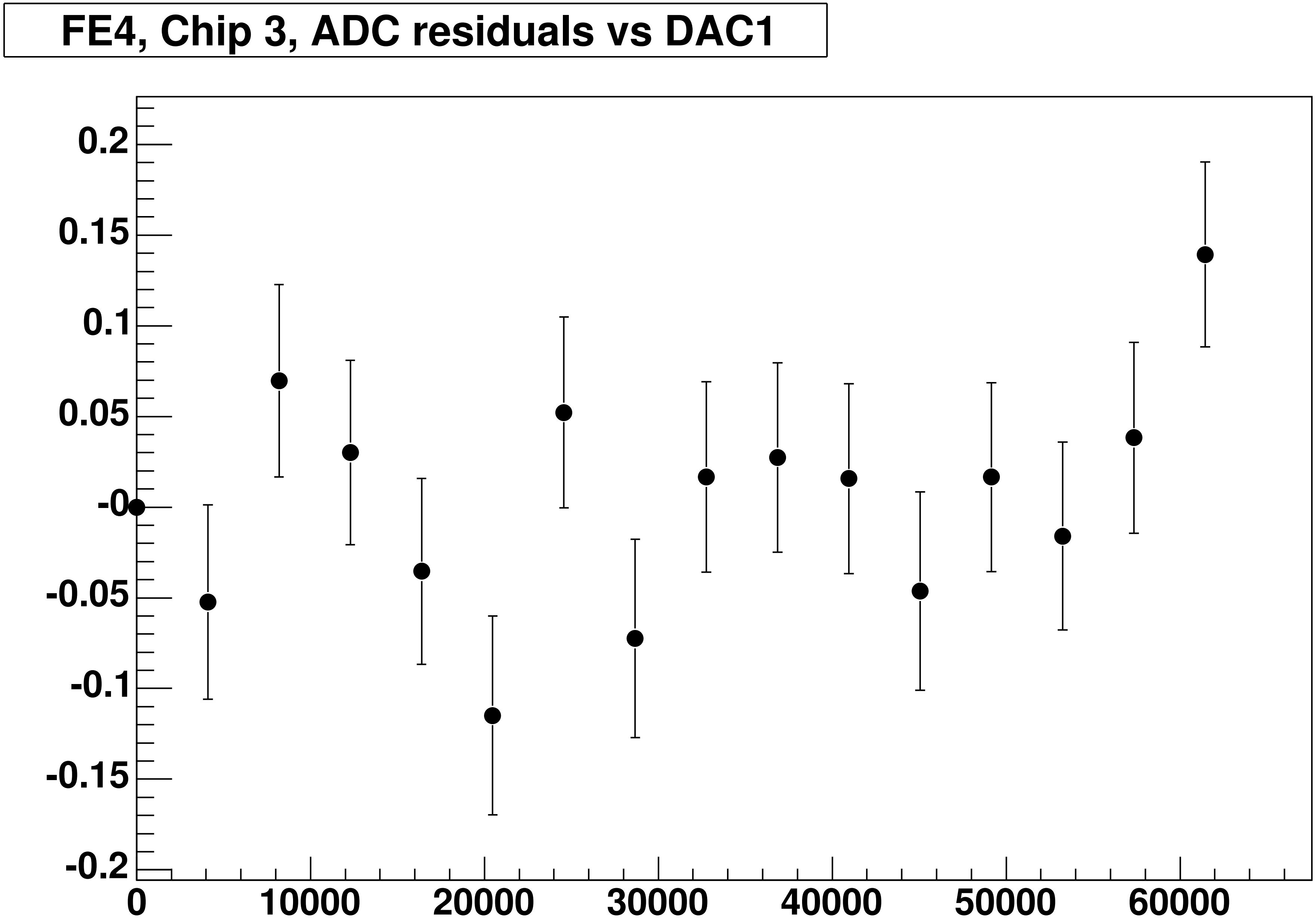


FE4, Chip 3, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

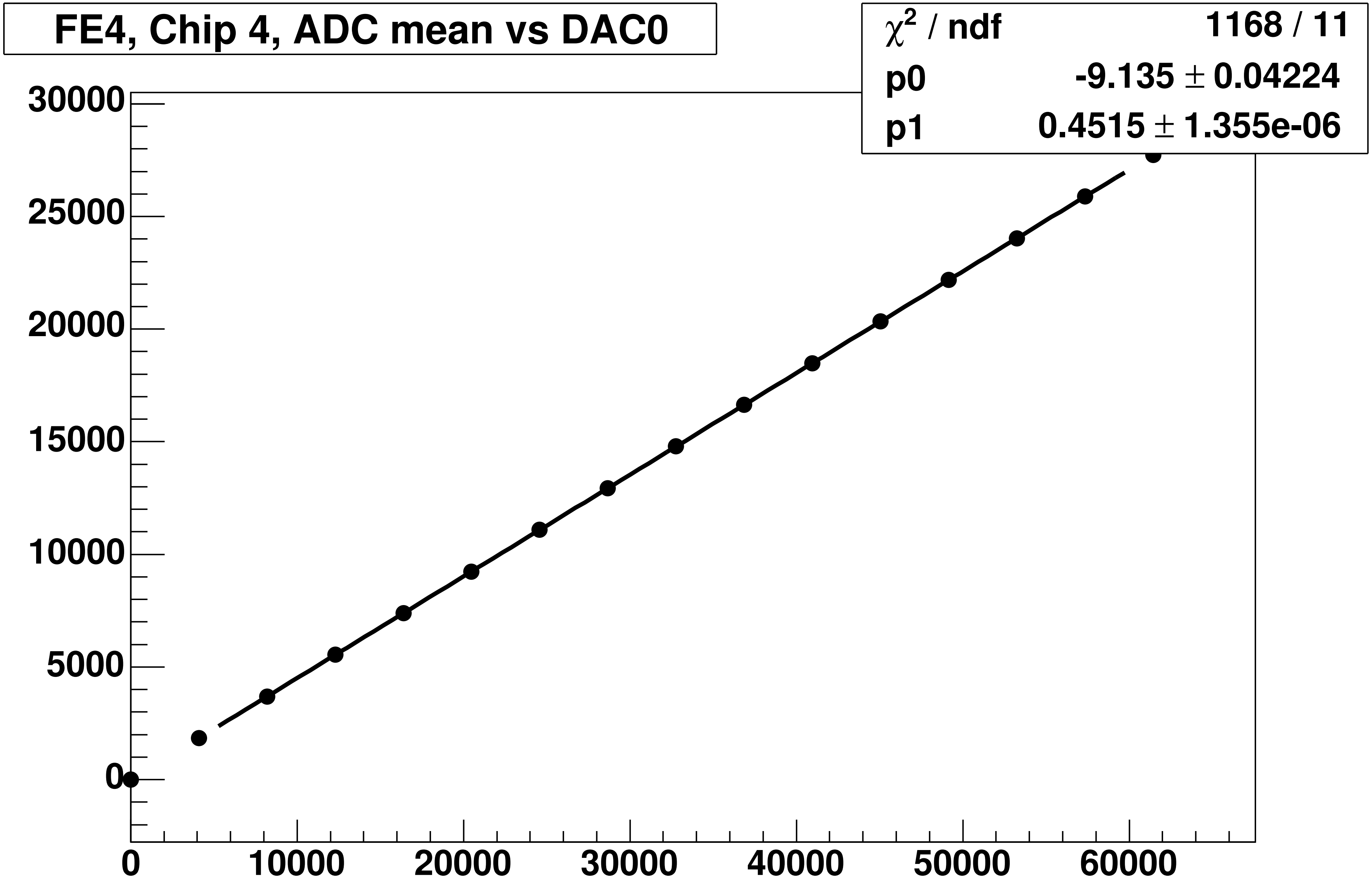


FE4, Chip 3, ADC mean vs DAC1
χ^2 / ndf 11.57 / 11
p0 -2.419 ± 0.03429
p1 3.209e-07 ± 9.473e-07
-2.2
-2.25
-2.3
-2.35
-2.4
-2.45
-2.5
-2.55
-2.6
0
10000
20000
30000
40000
50000
60000

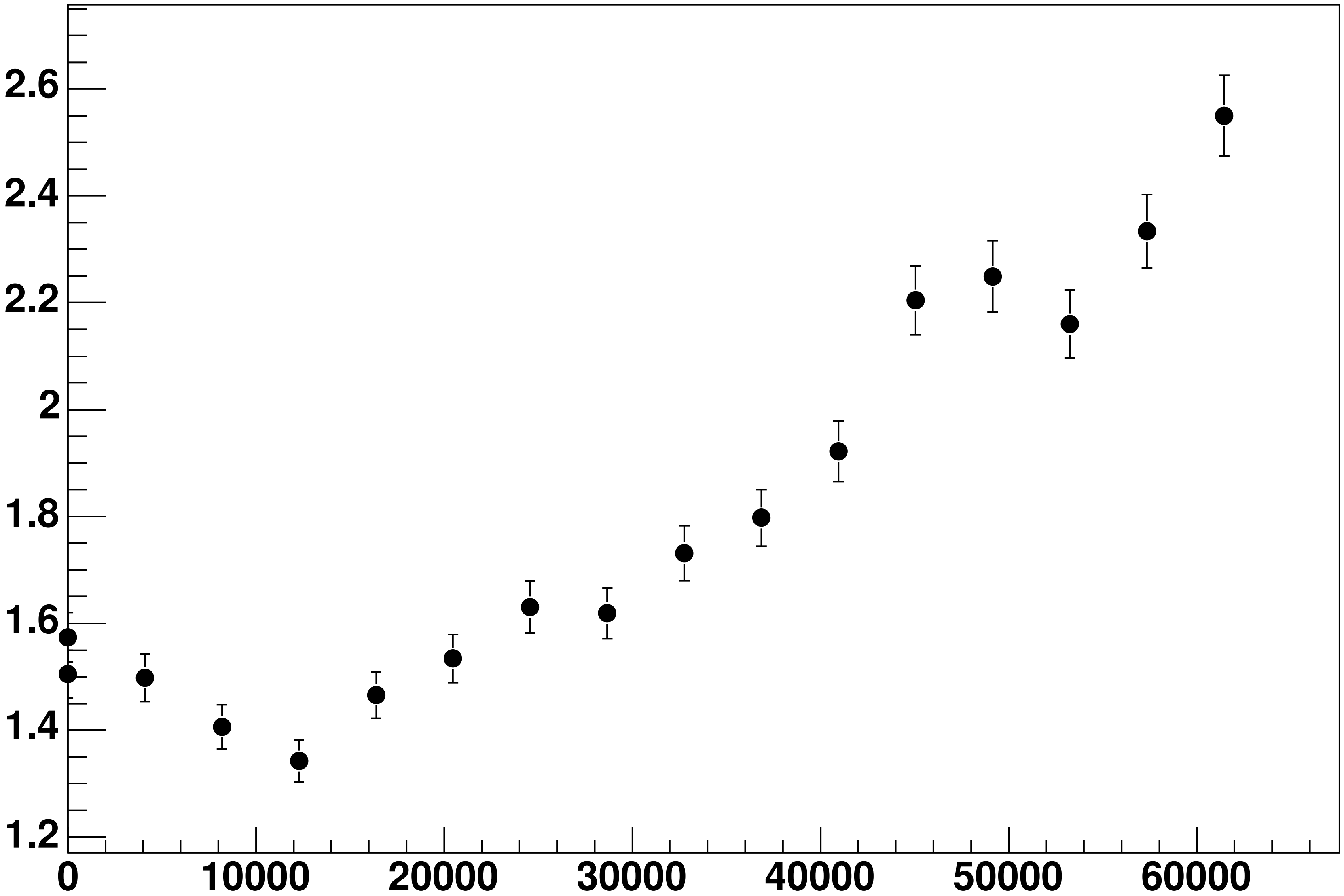

FE4, Chip 3, ADC noise vs DAC1
1.36
1.34
1.32
1.3
1.28
1.26
1.24
1.22
1.2
1.18
0
10000
20000
30000
40000
50000
60000

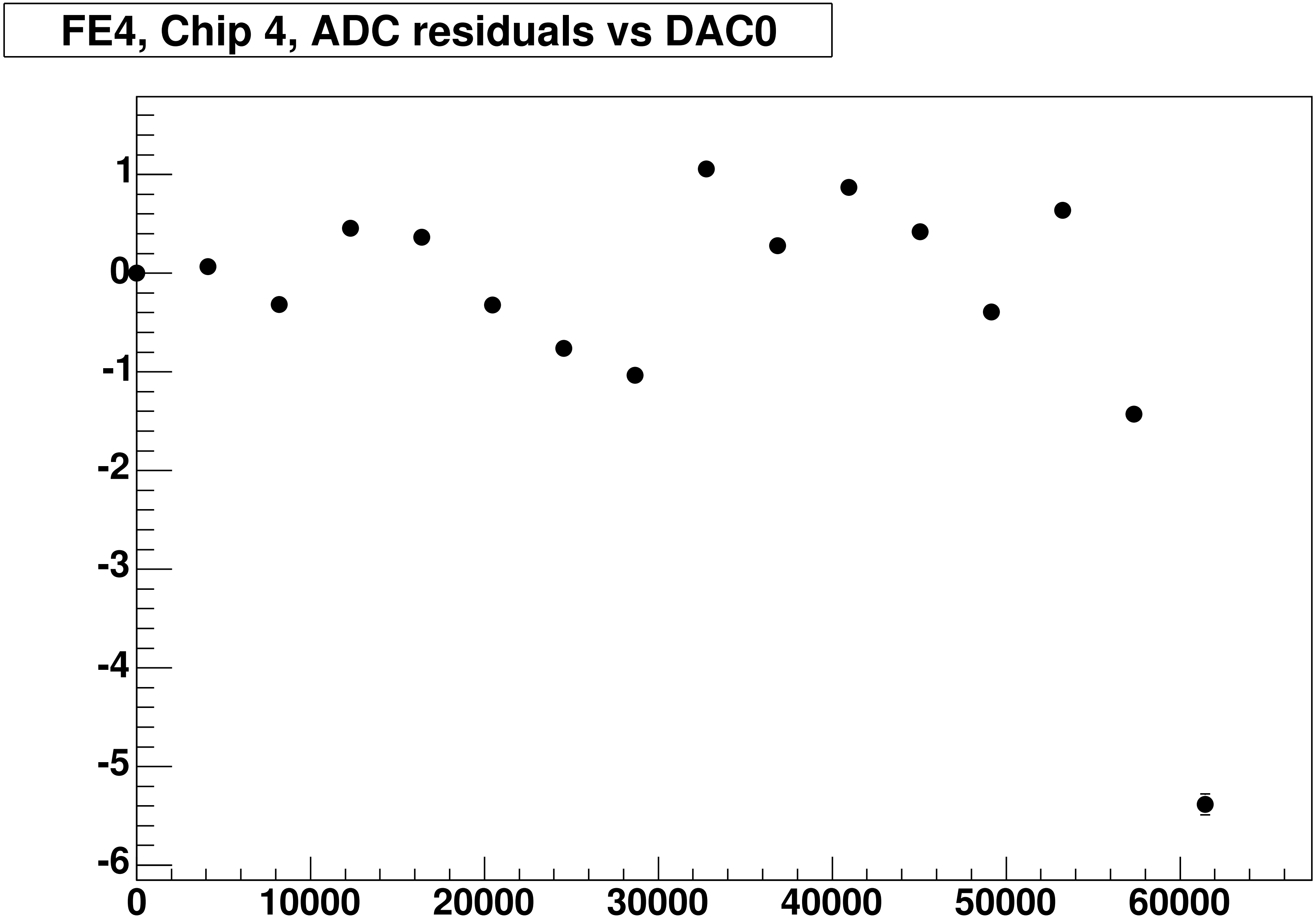


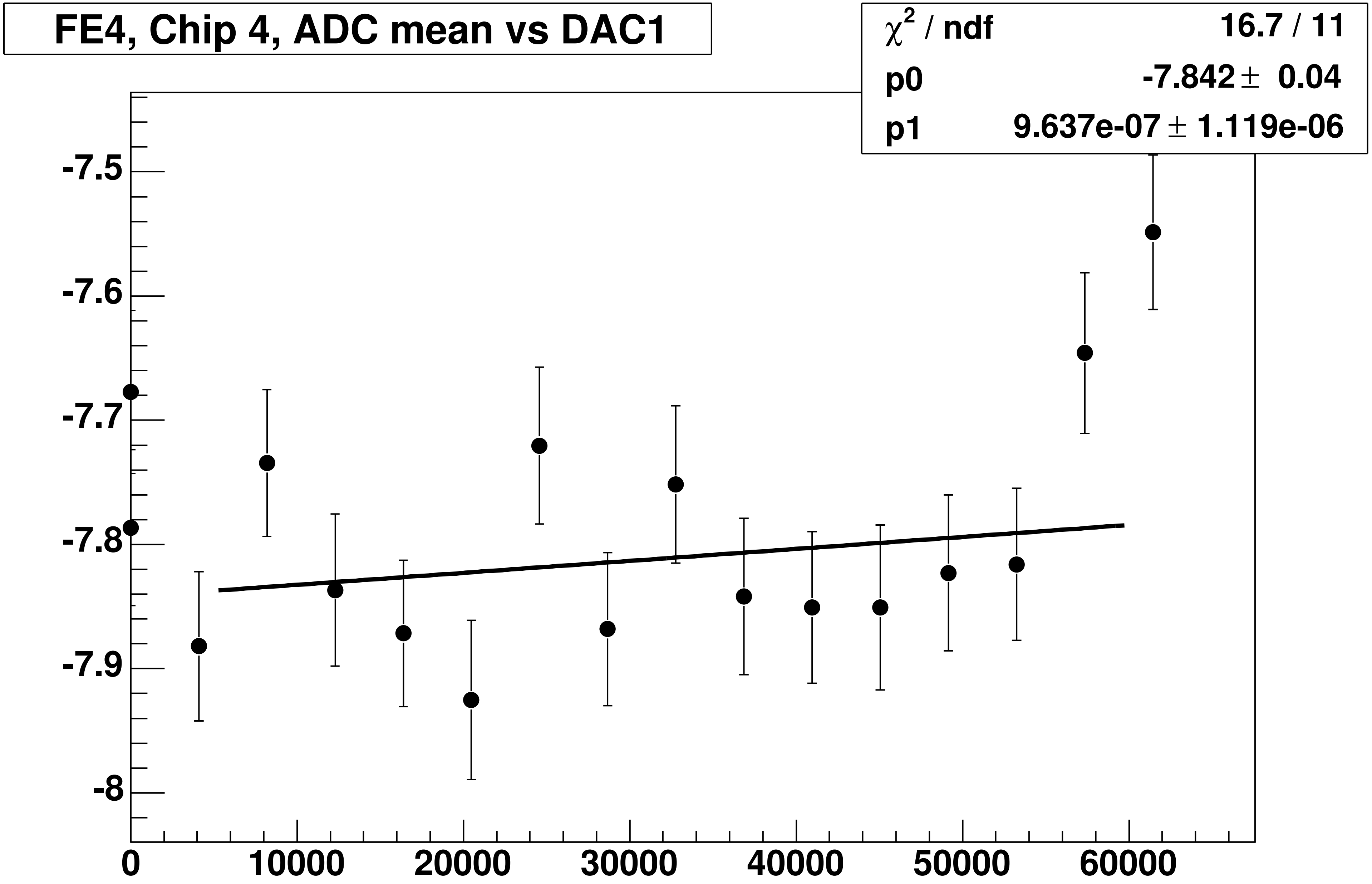
FE4, Chip 3, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

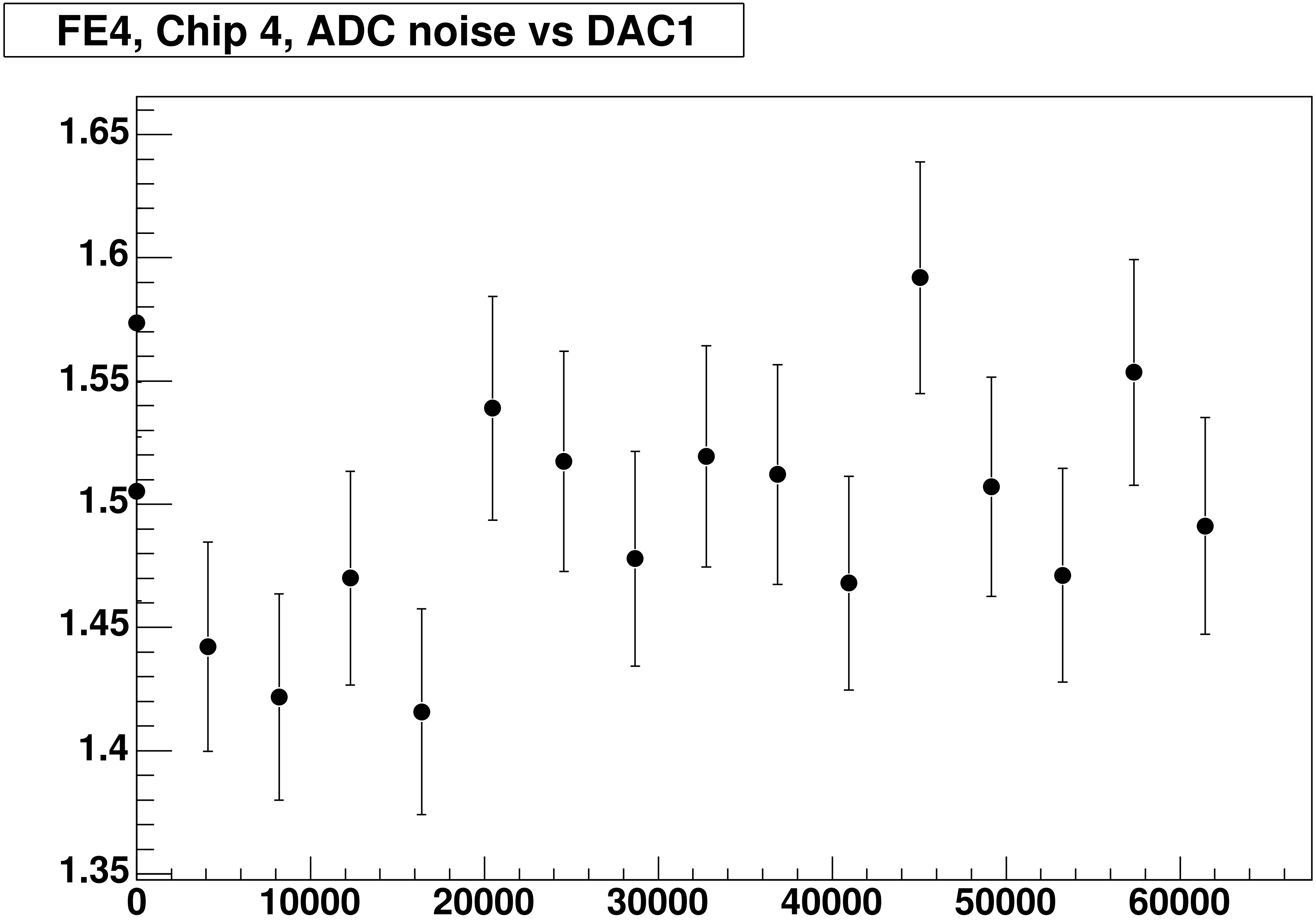

FE4, Chip 4, ADC mean vs DAC0
χ^2 / ndf 1168 / 11
p0 -9.135 ± 0.04224
p1 0.4515 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

FE4, Chip 4, ADC noise vs DAC0

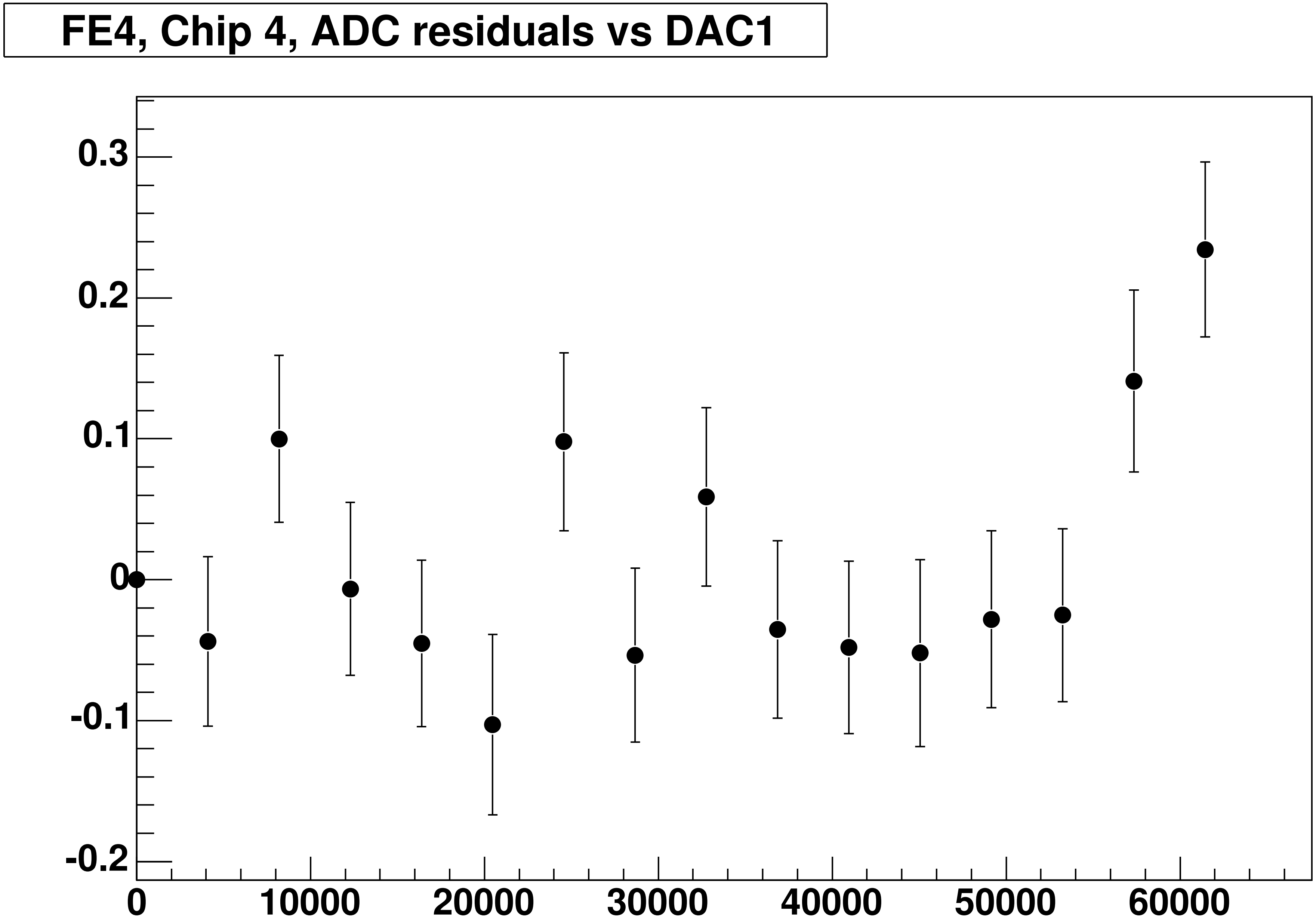


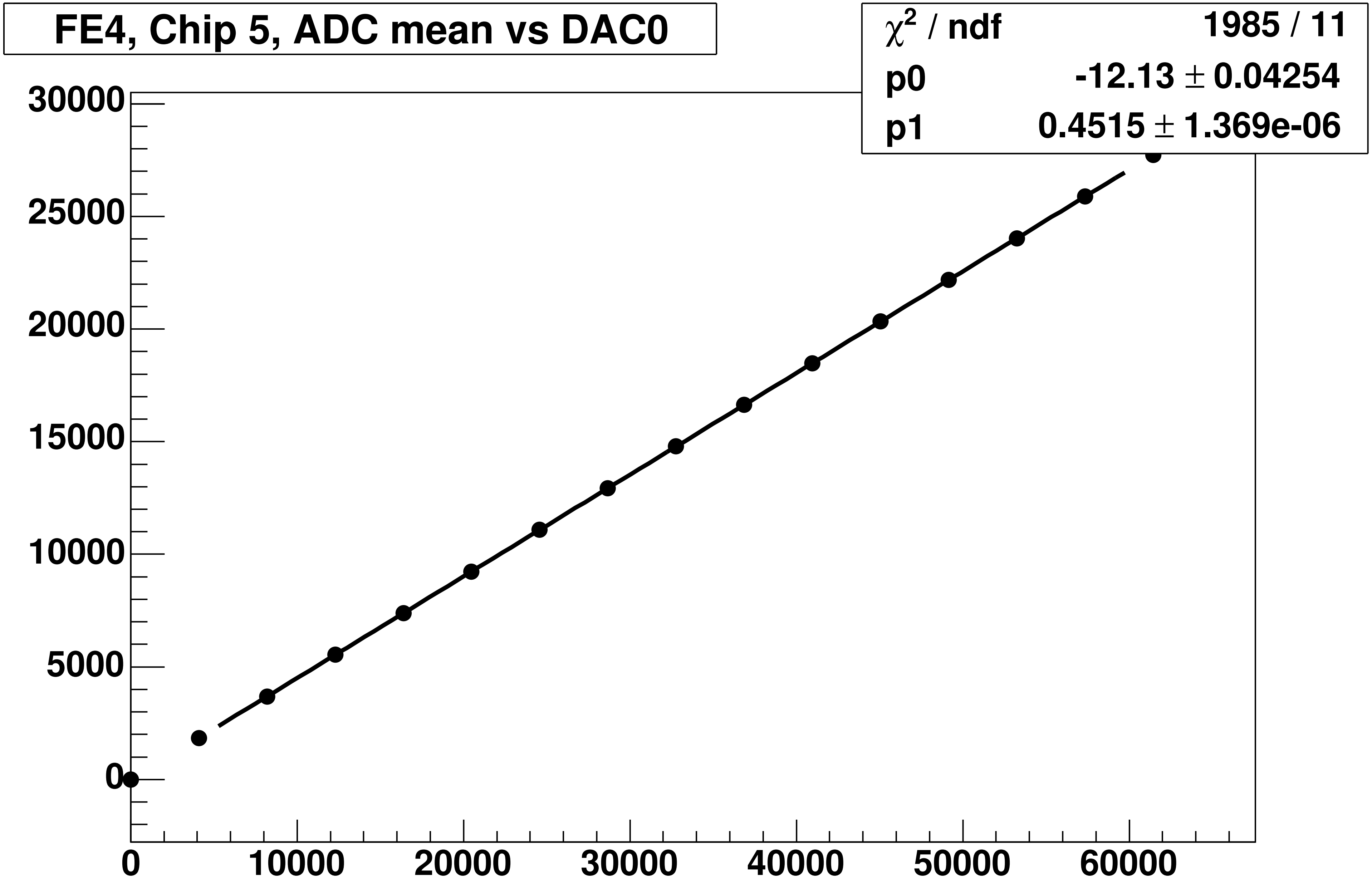

FE4, Chip 4, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

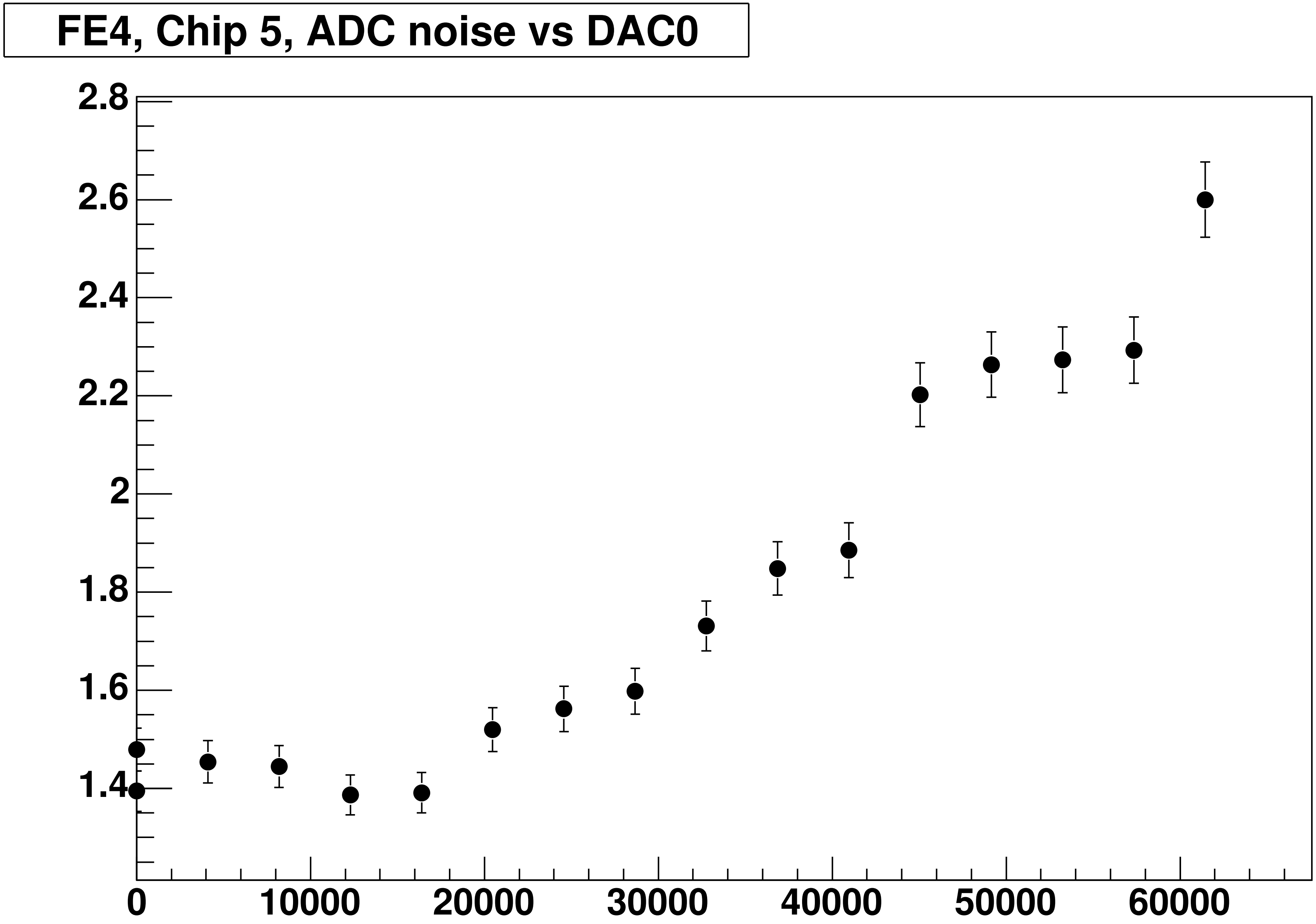

FE4, Chip 4, ADC mean vs DAC1
χ^2 / ndf 16.7 / 11
p0 -7.842 ± 0.04
p1 9.637e-07 ± 1.119e-06
-7.5
-7.6
-7.7
-7.8
-7.9
-8
0
10000
20000
30000
40000
50000
60000

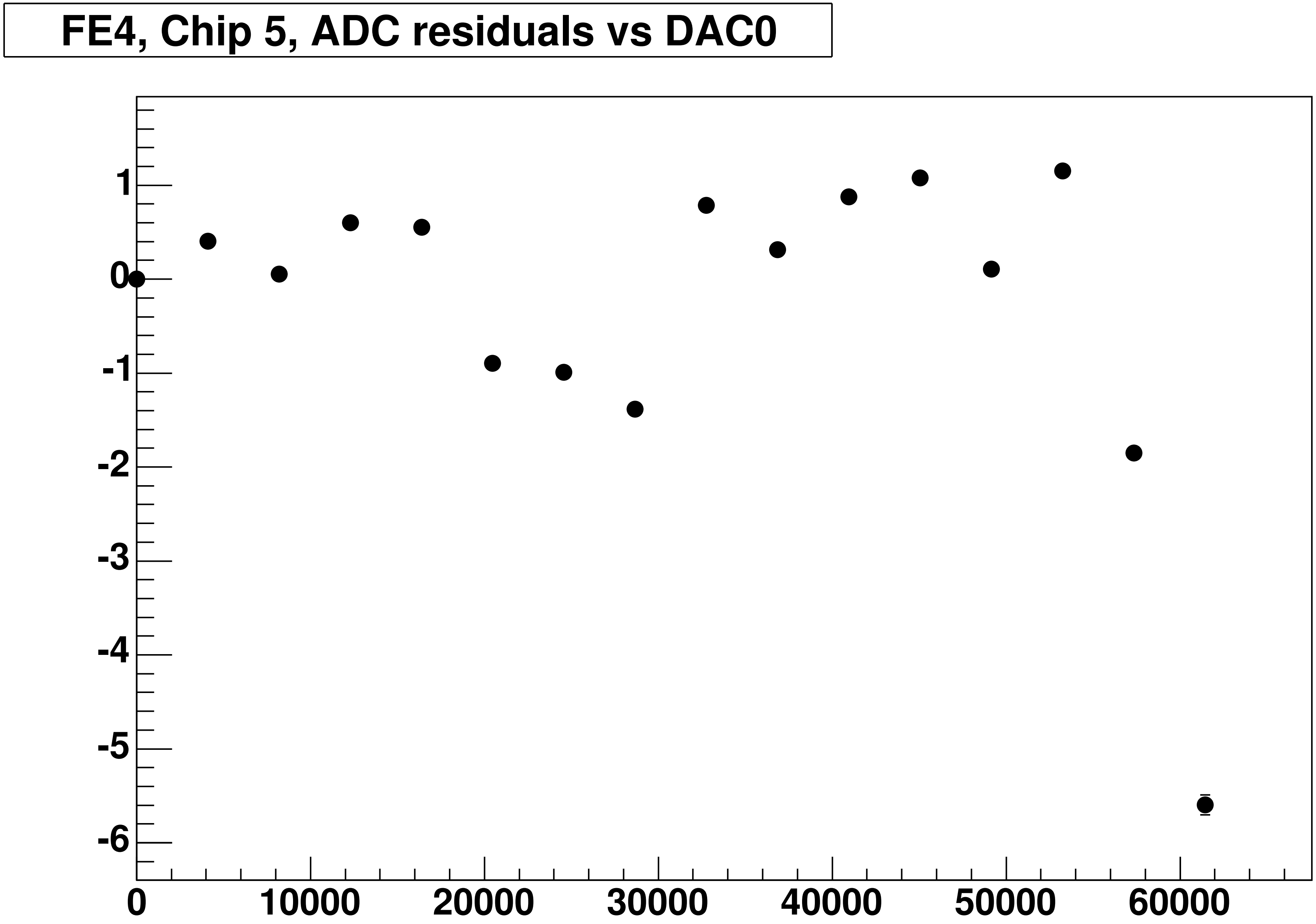


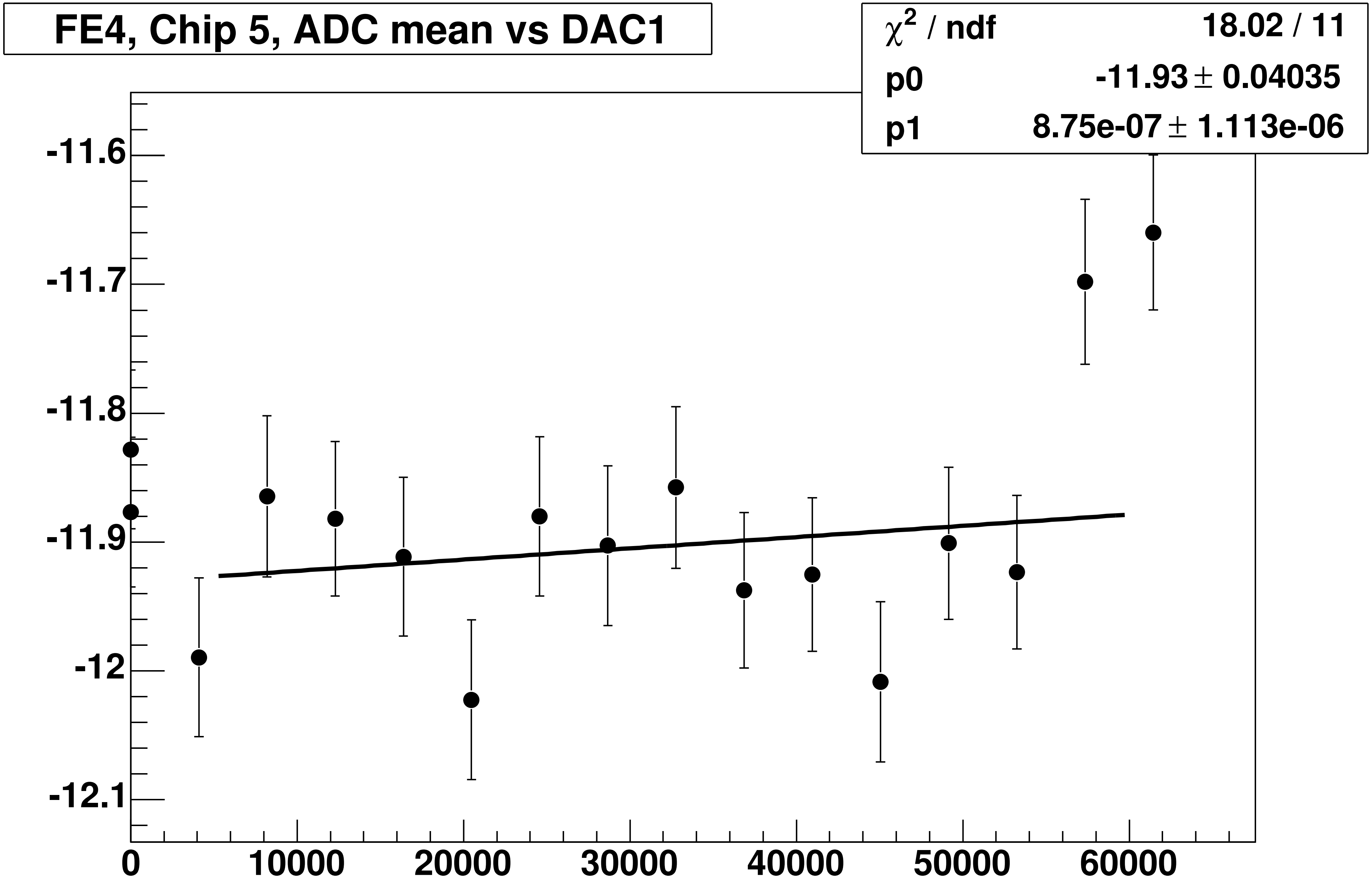
FE4, Chip 4, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

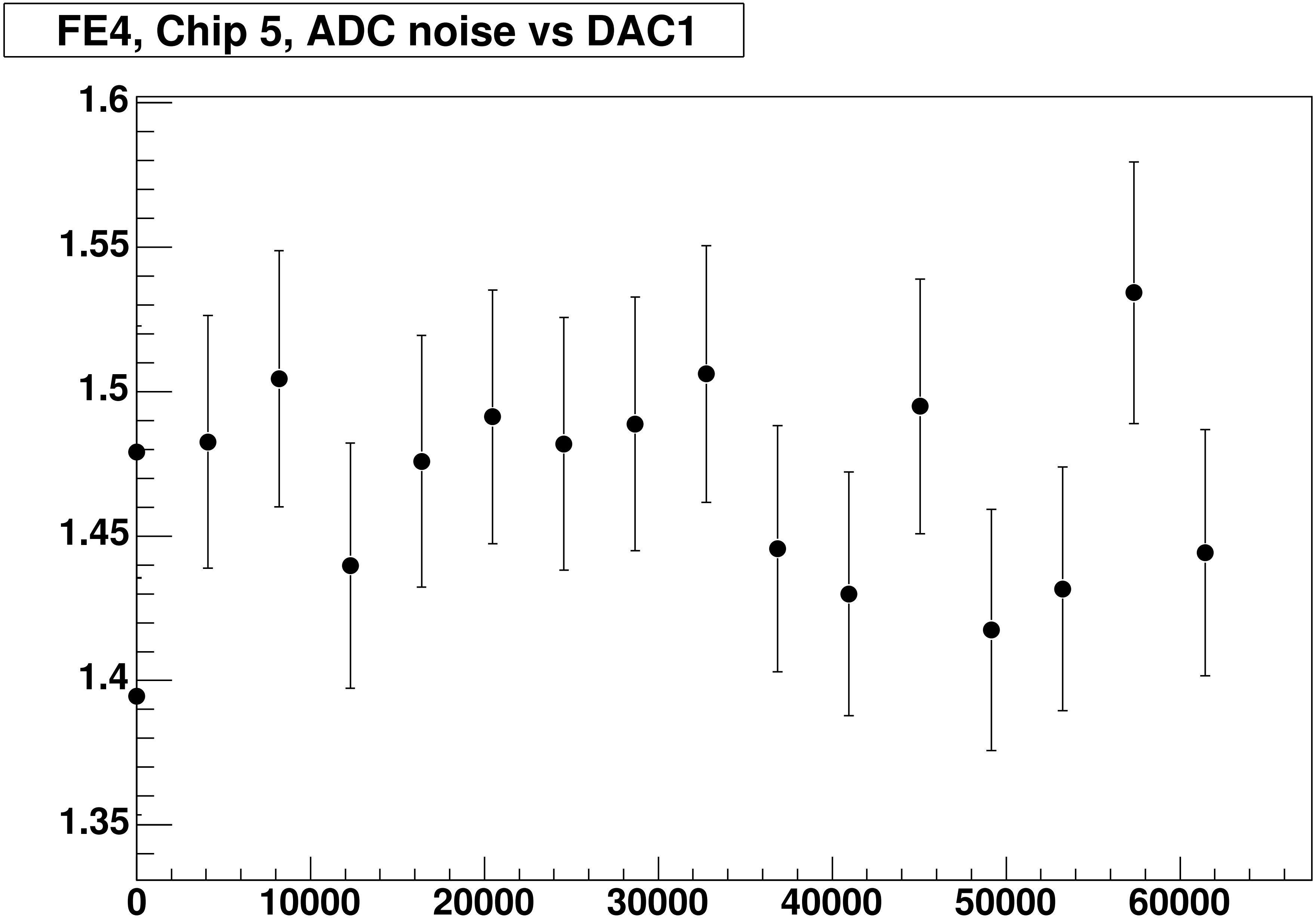

FE4, Chip 4, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

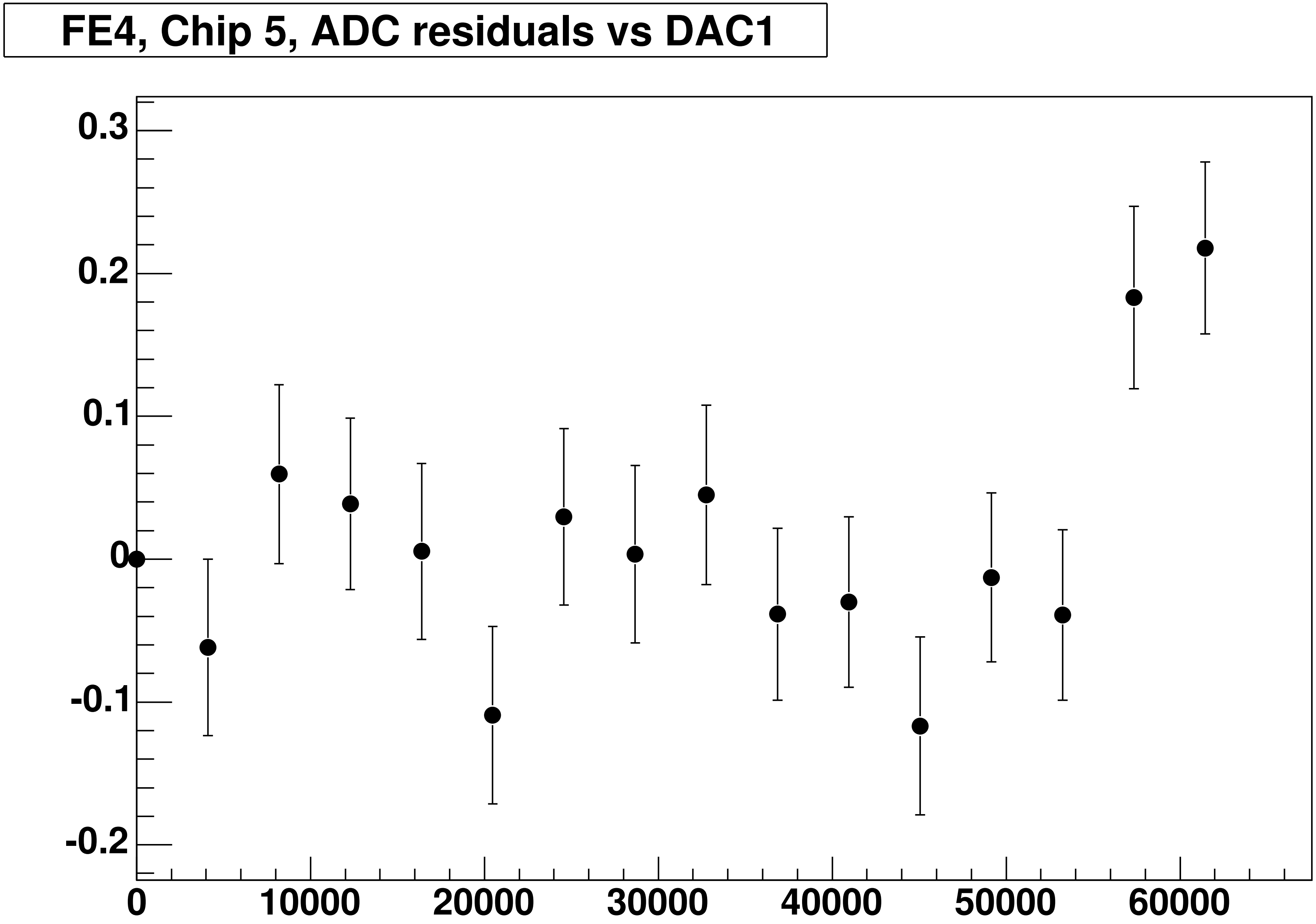

FE4, Chip 5, ADC mean vs DAC0
χ^2 / ndf 1985 / 11
p0 -12.13 ± 0.04254
p1 0.4515 ± 1.369e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

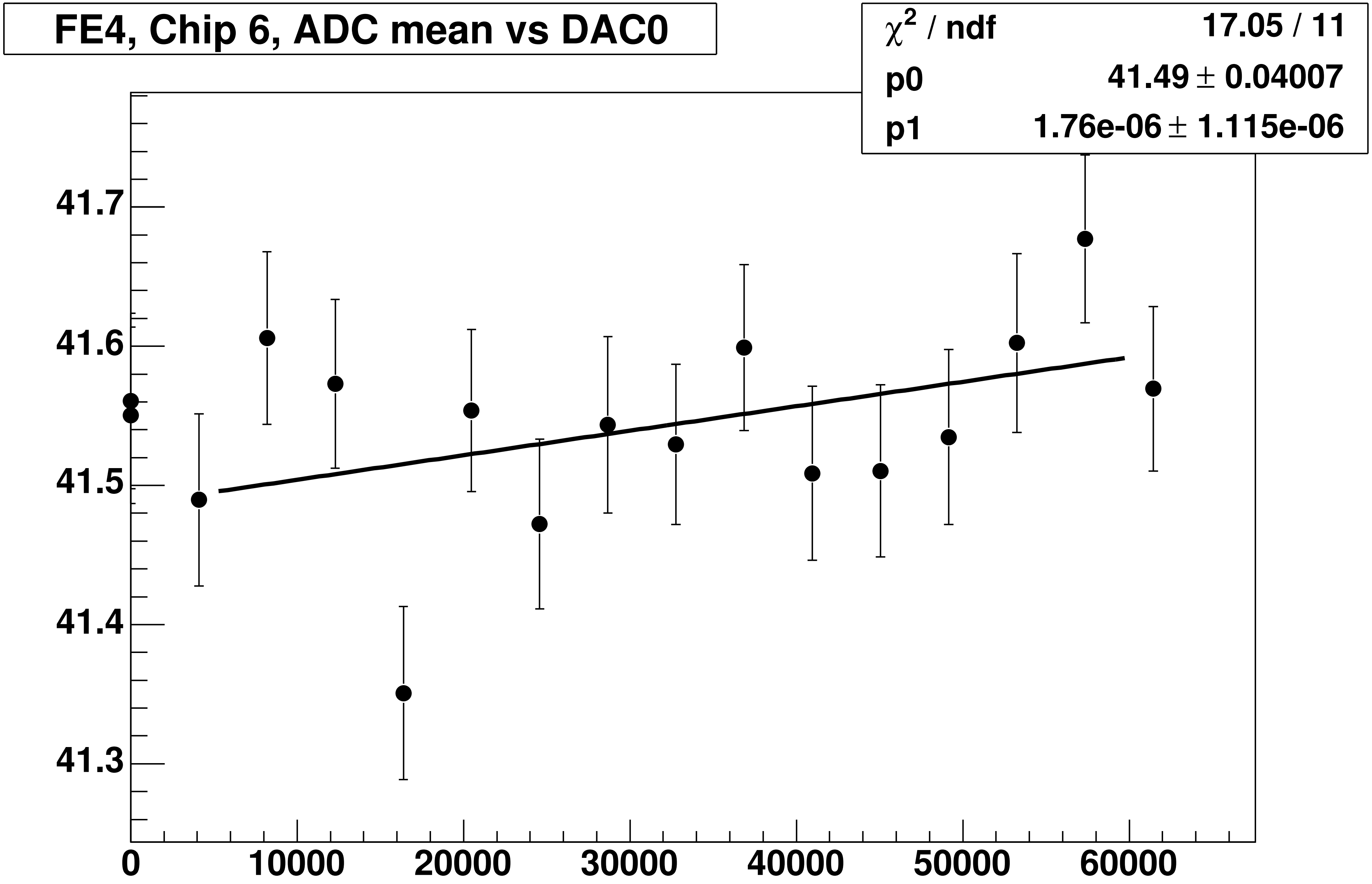

FE4, Chip 5, ADC noise vs DAC0
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000


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

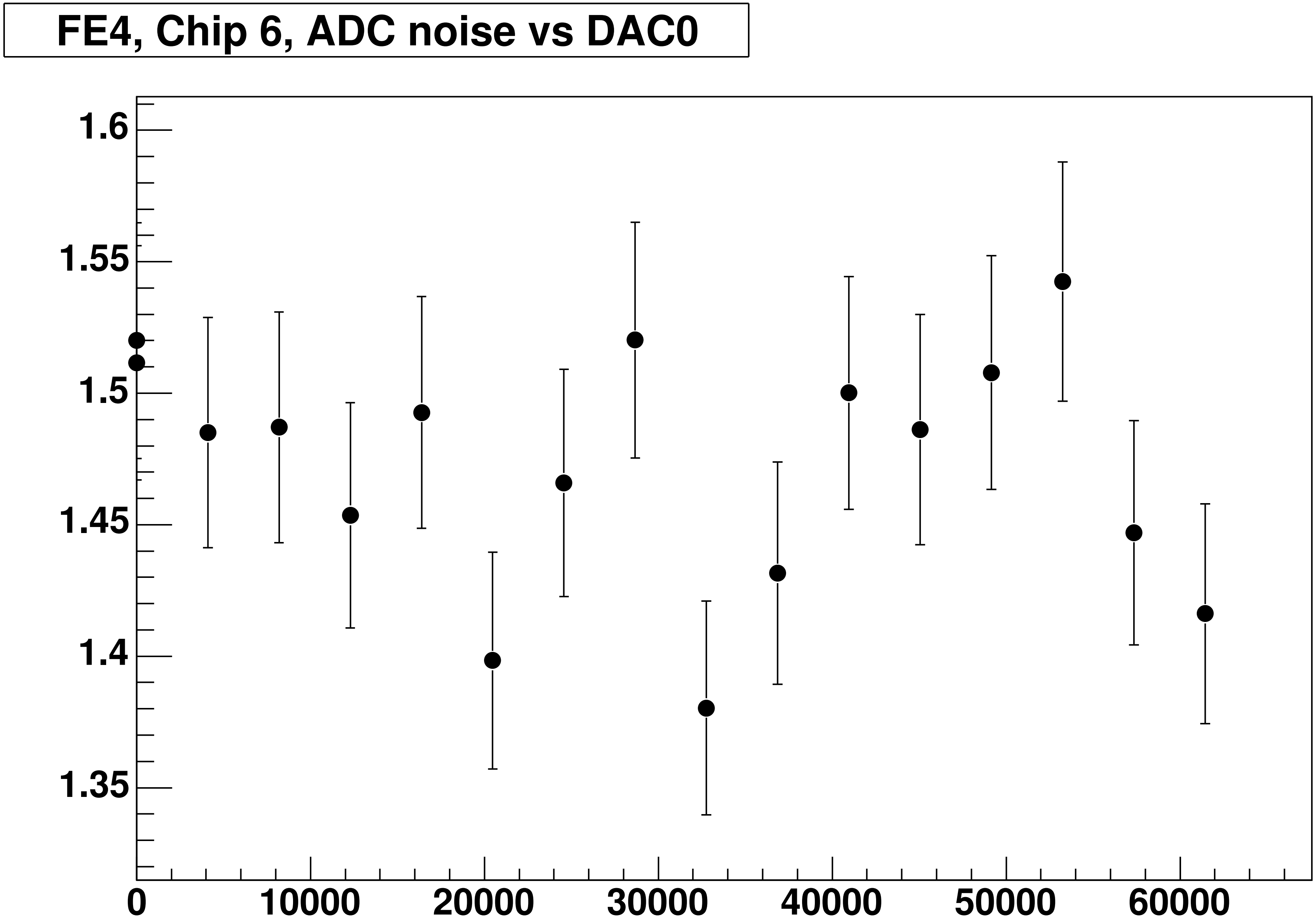

FE4, Chip 5, ADC mean vs DAC1
χ² / ndf 18.02 / 11
p0 -11.93 ± 0.04035
p1 8.75e-07 ± 1.113e-06
-11.6
-11.7
-11.8
-11.9
-12
-12.1
0
10000
20000
30000
40000
50000
60000


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

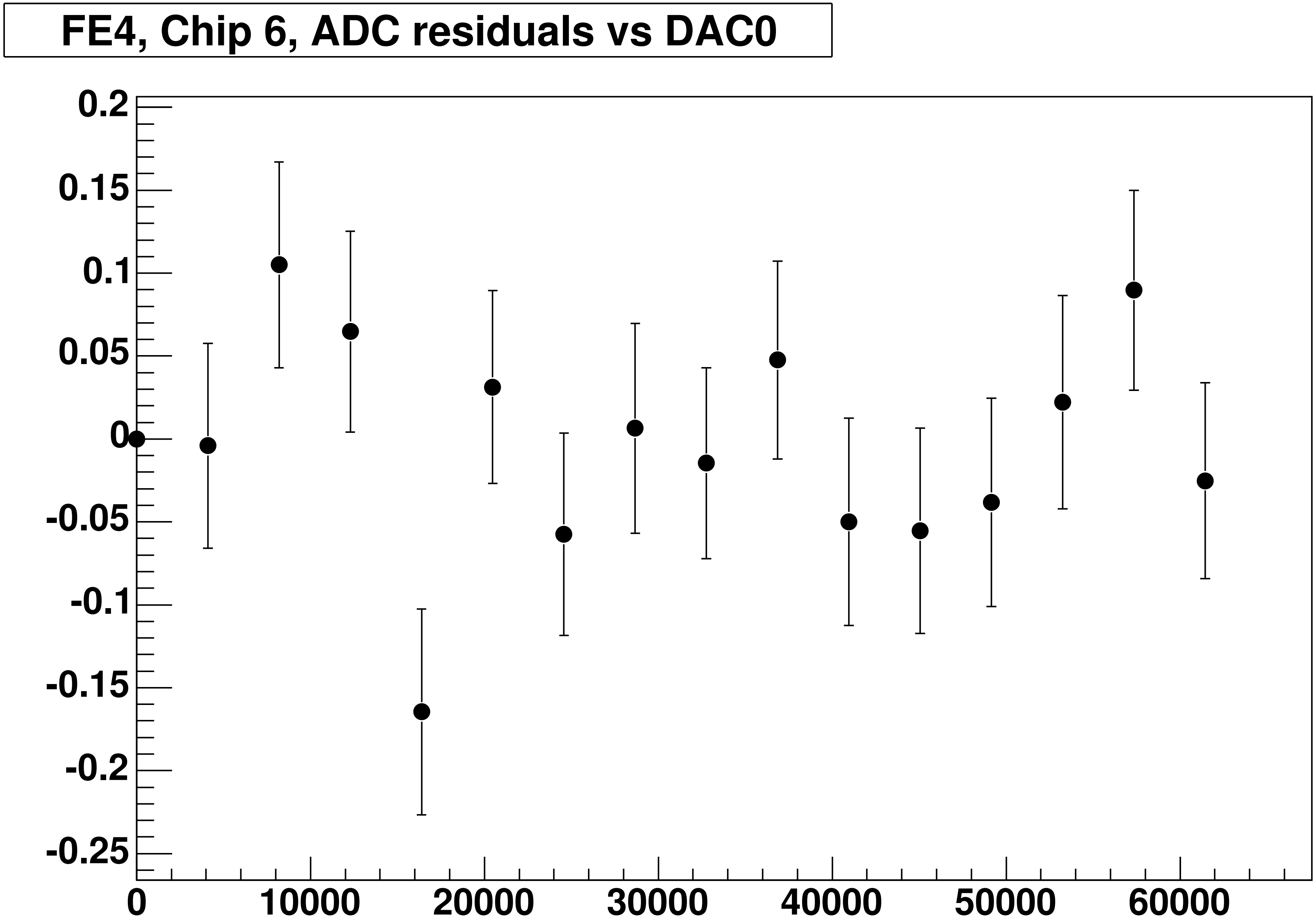

FE4, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

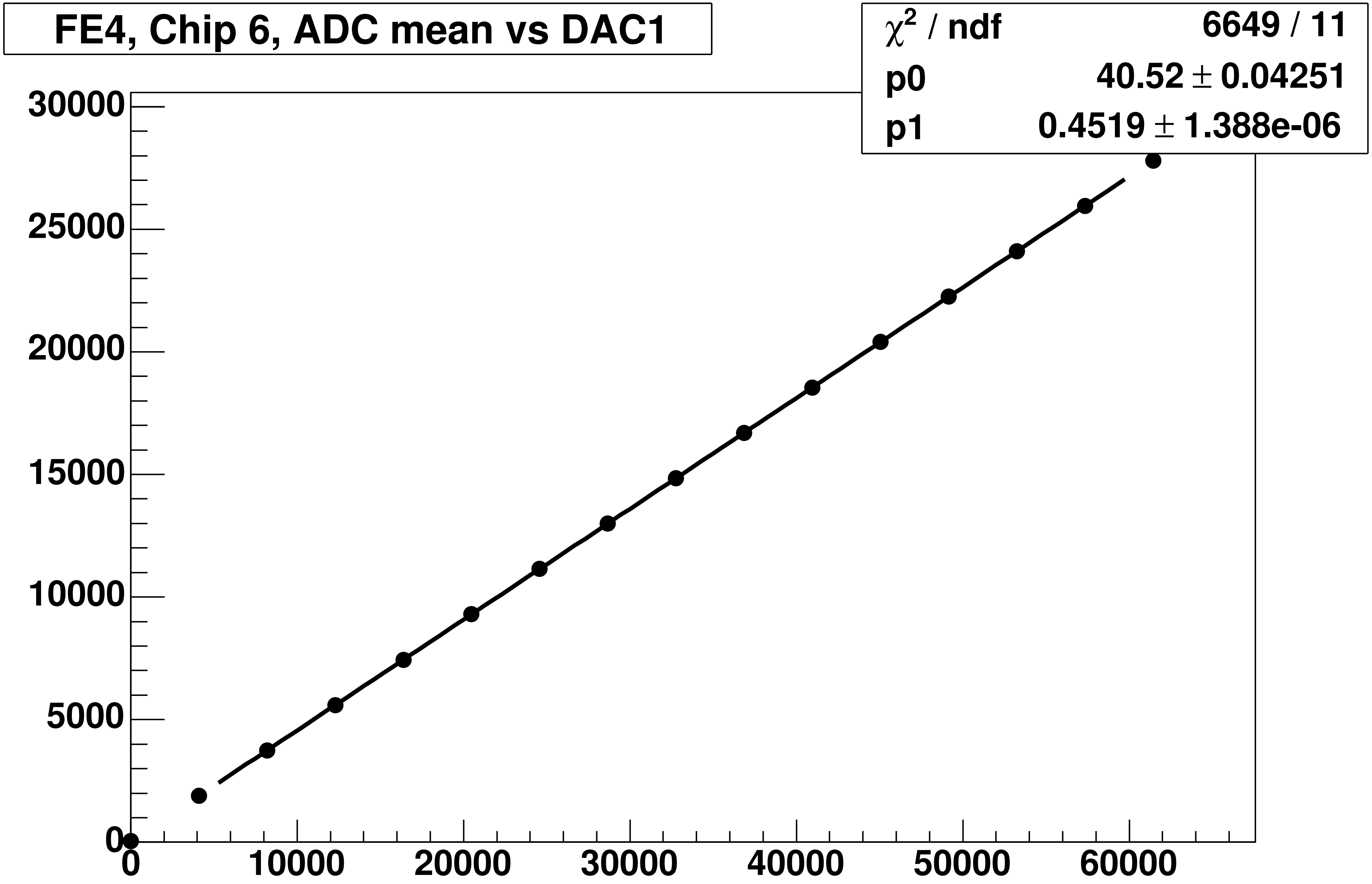


FE4, Chip 6, ADC mean vs DAC0
χ² / ndf 17.05 / 11
p0 41.49 ± 0.04007
p1 1.76e-06 ± 1.115e-06
41.3
41.4
41.5
41.6
41.7
0
10000
20000
30000
40000
50000
60000

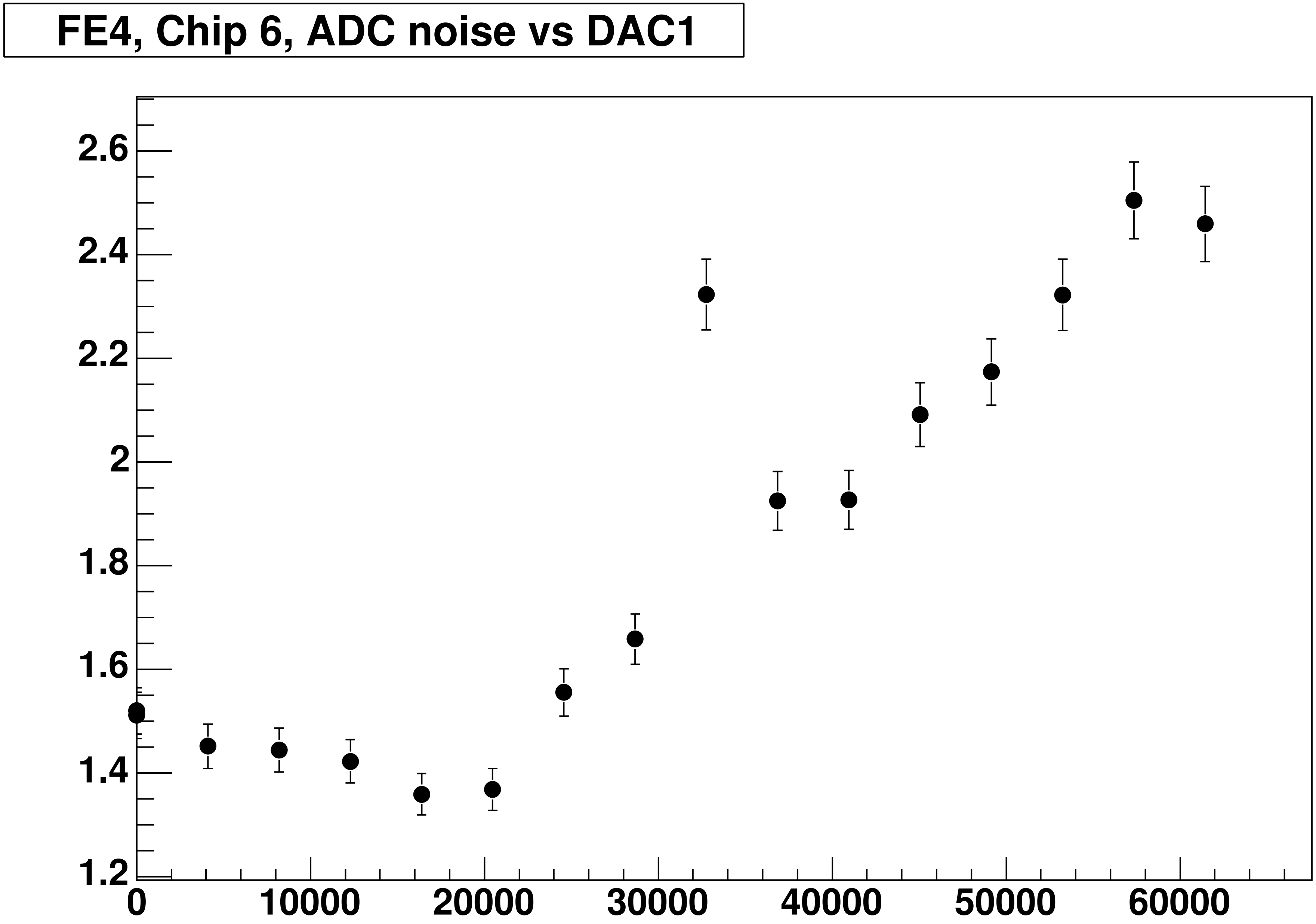


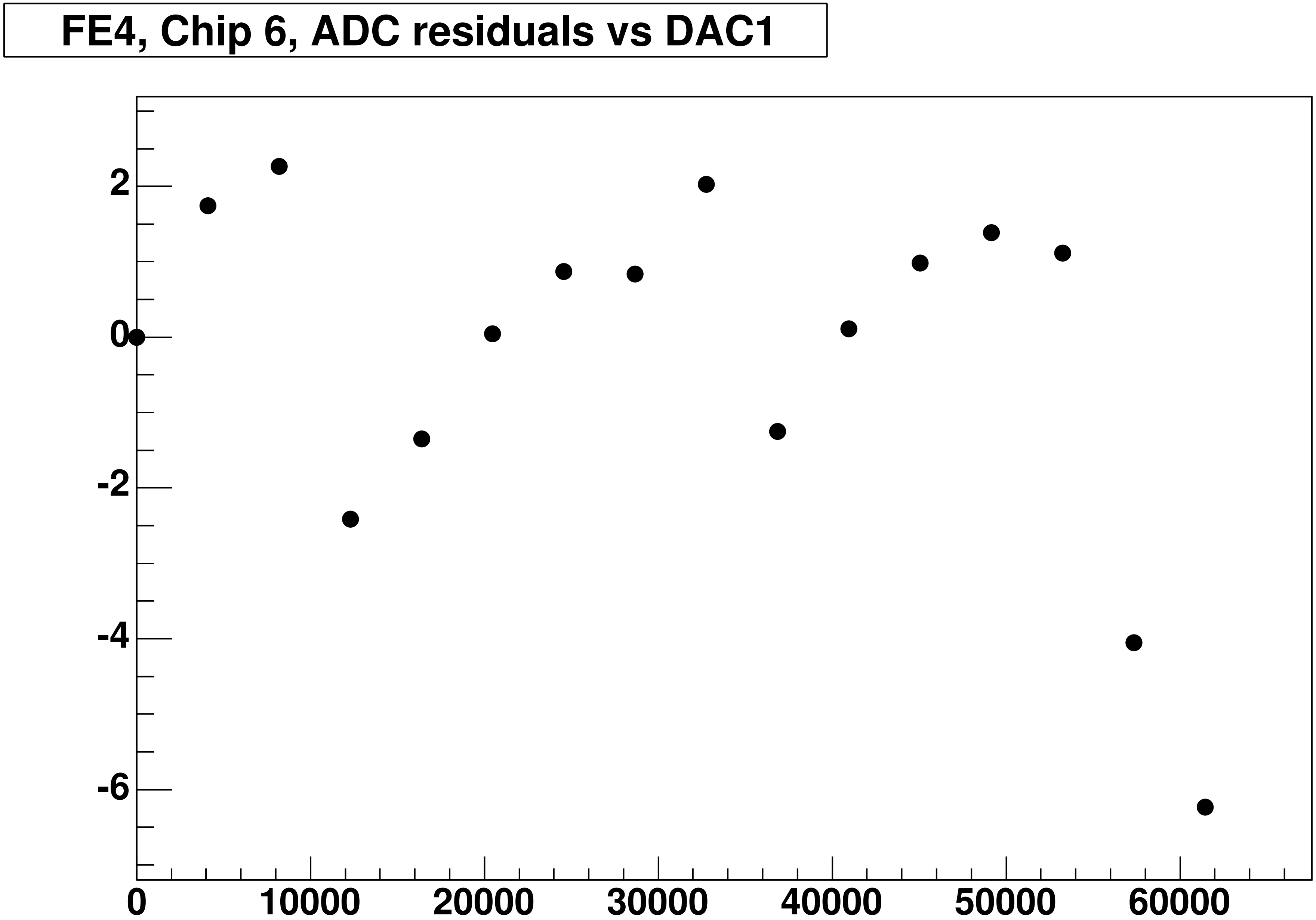
FE4, Chip 6, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


FE4, 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

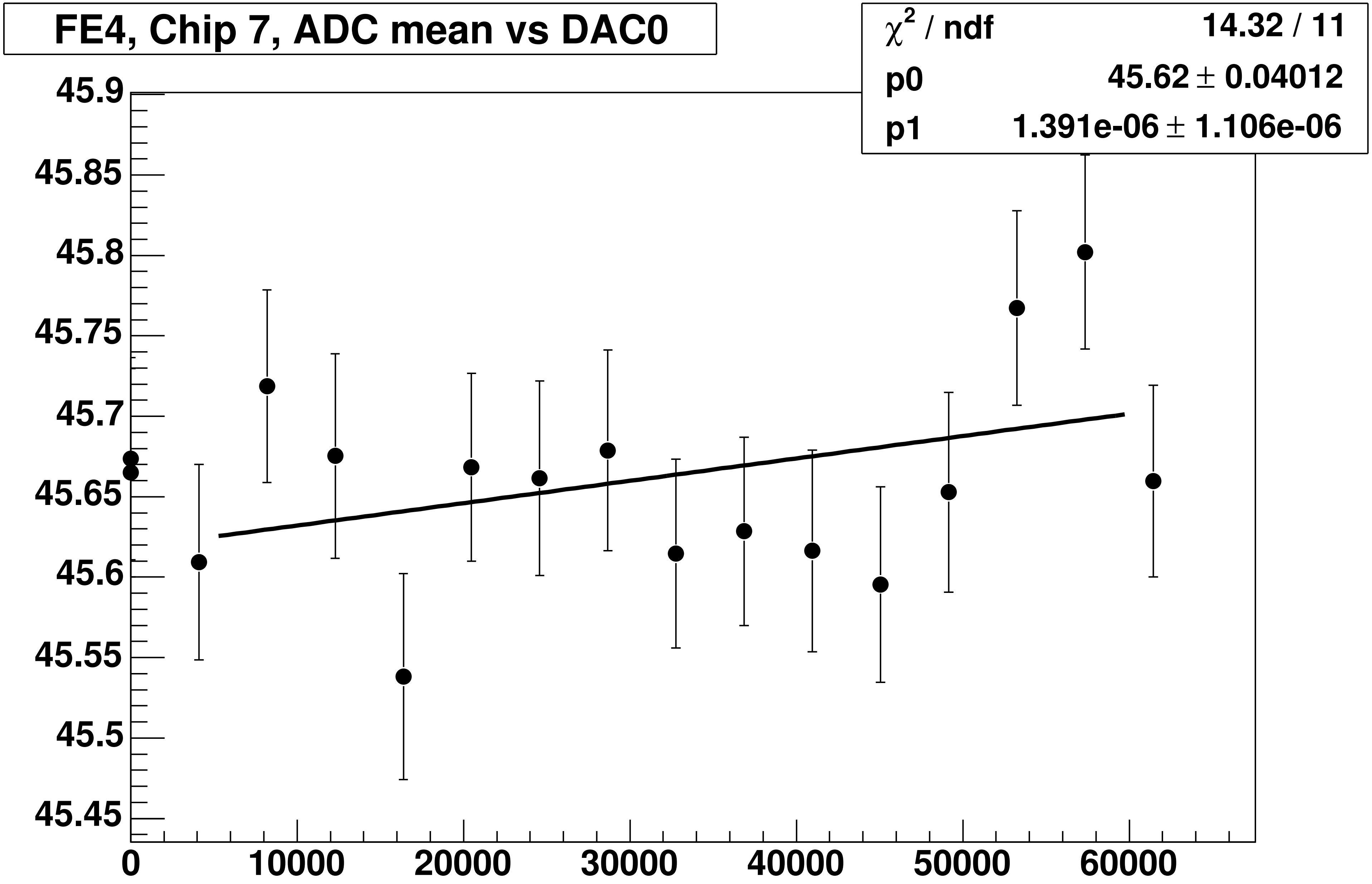


FE4, Chip 6, ADC mean vs DAC1
χ^2 / ndf 6649 / 11
p0 40.52 ± 0.04251
p1 0.4519 ± 1.388e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

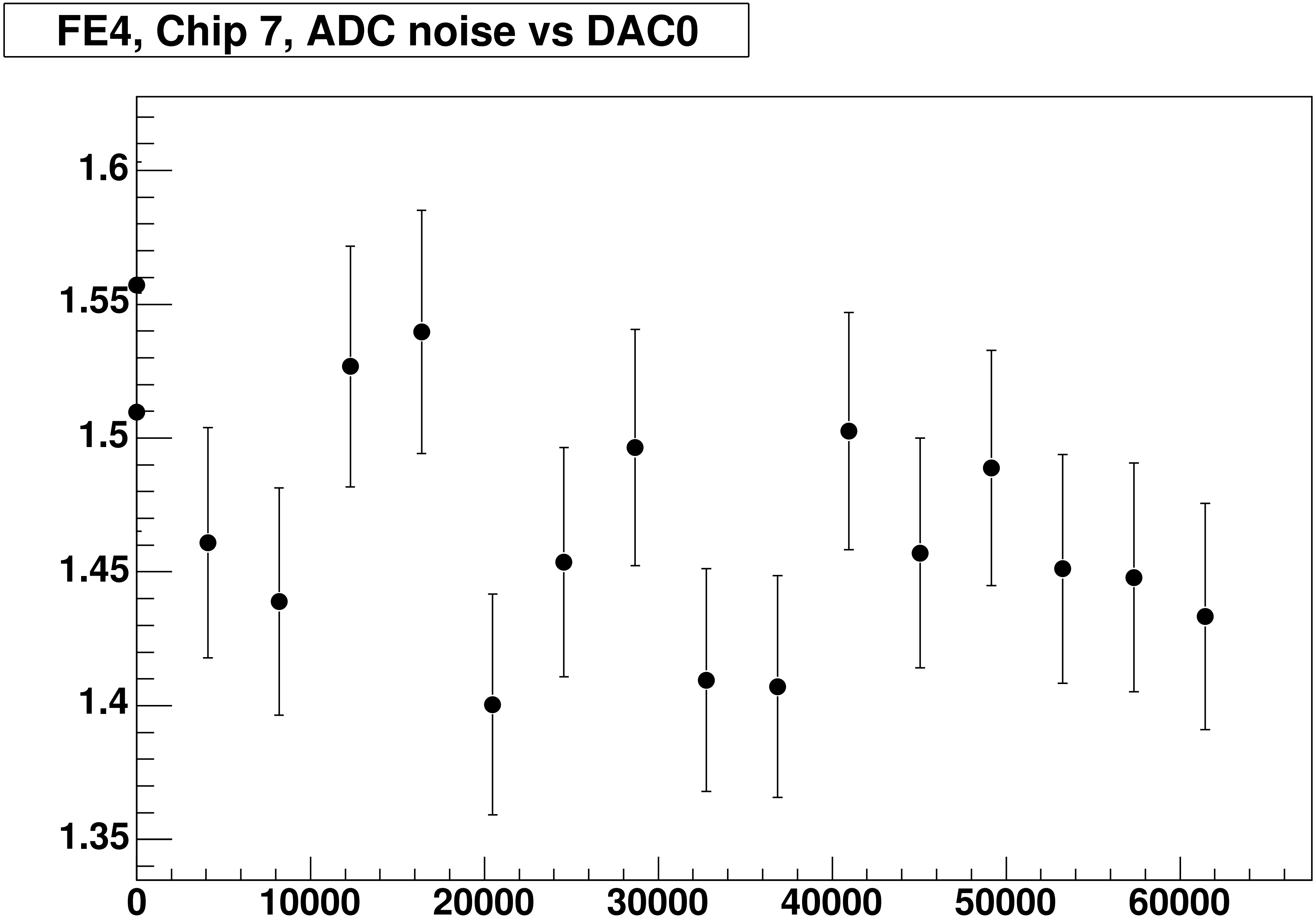

FE4, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



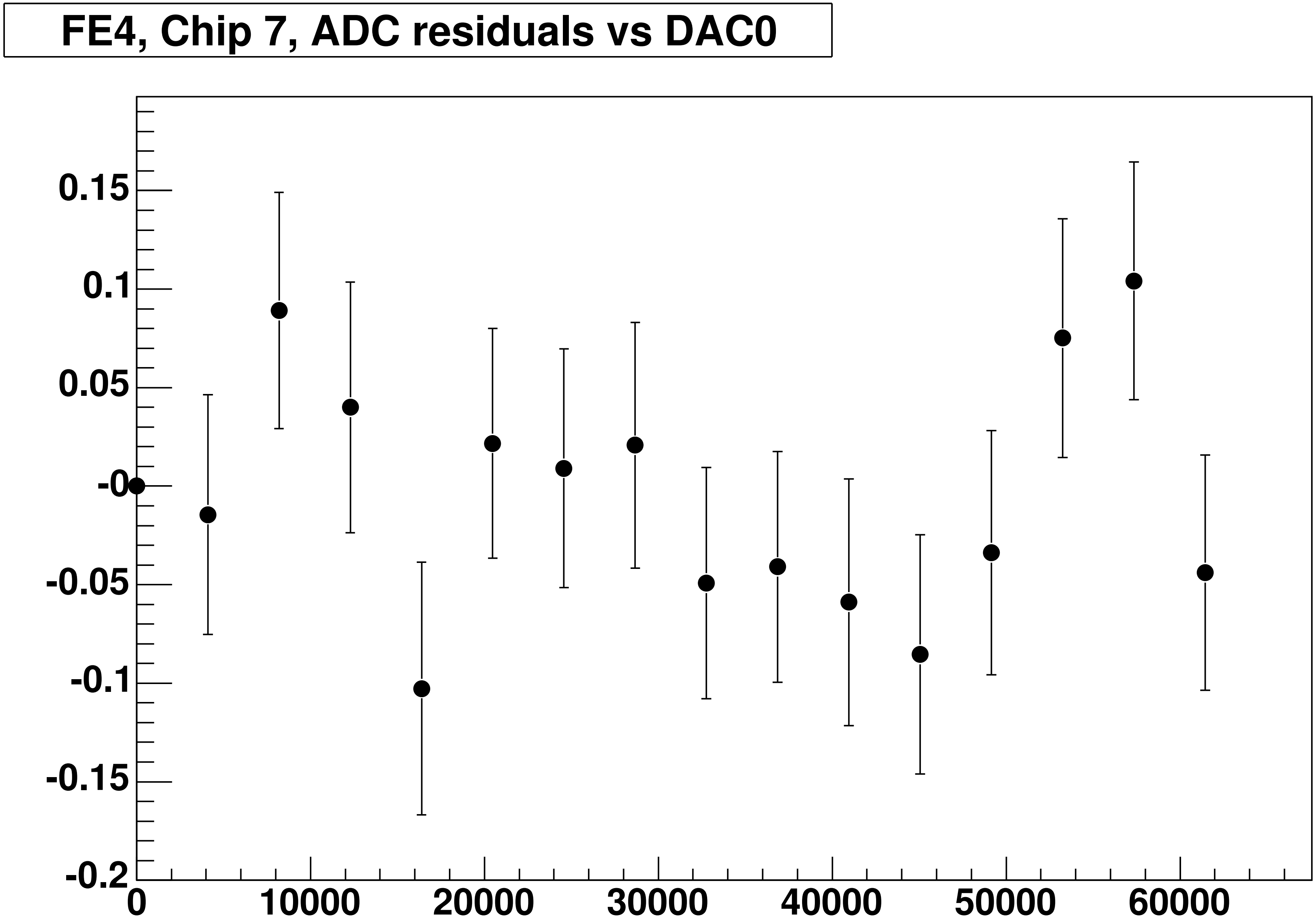
FE4, Chip 6, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

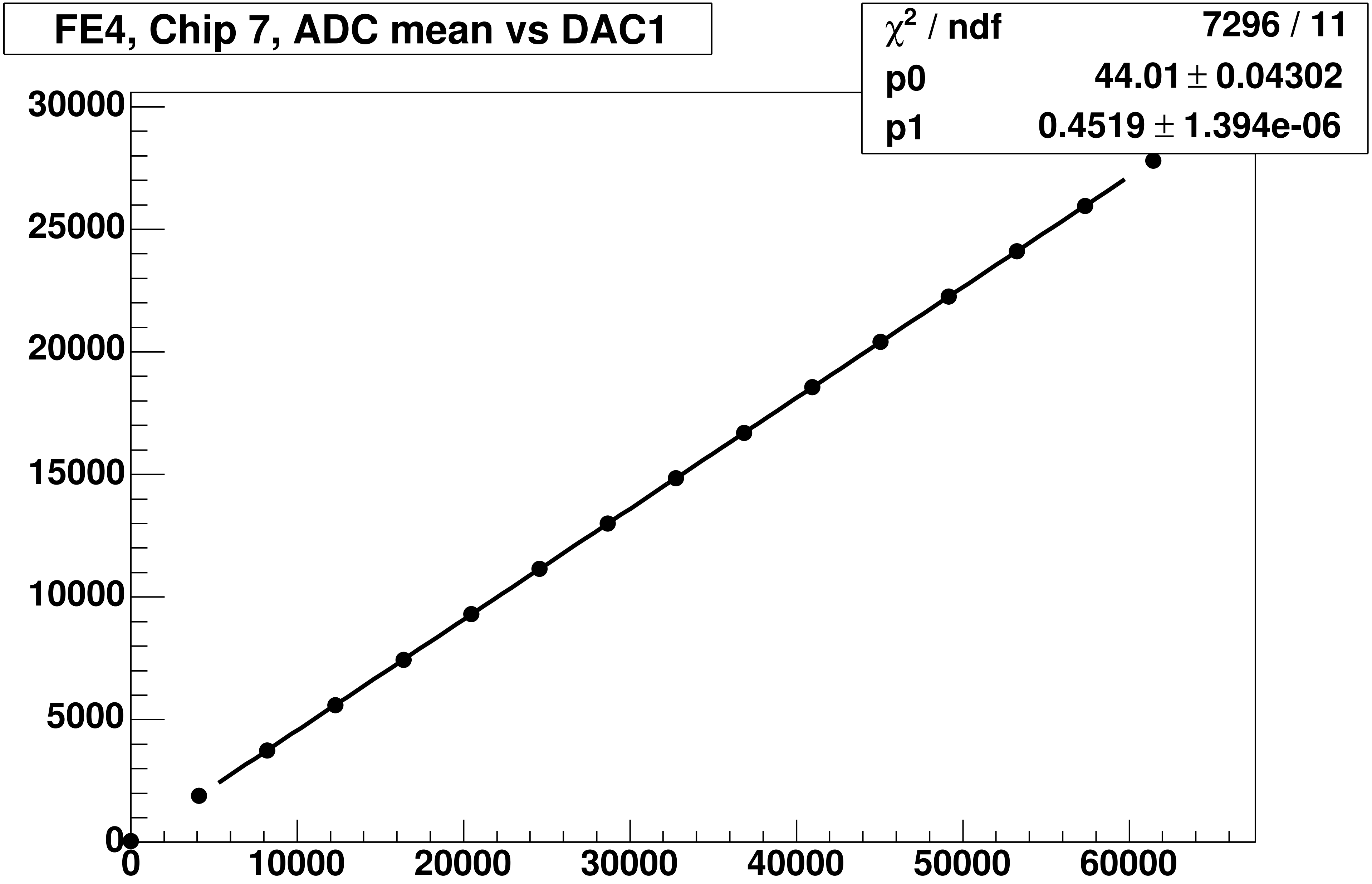


FE4, Chip 7, ADC mean vs DAC0
χ^2 / ndf 14.32 / 11
p0 45.62 ± 0.04012
p1 1.391e-06 ± 1.106e-06
45.9
45.85
45.8
45.75
45.7
45.65
45.6
45.55
45.5
45.45
0
10000
20000
30000
40000
50000
60000

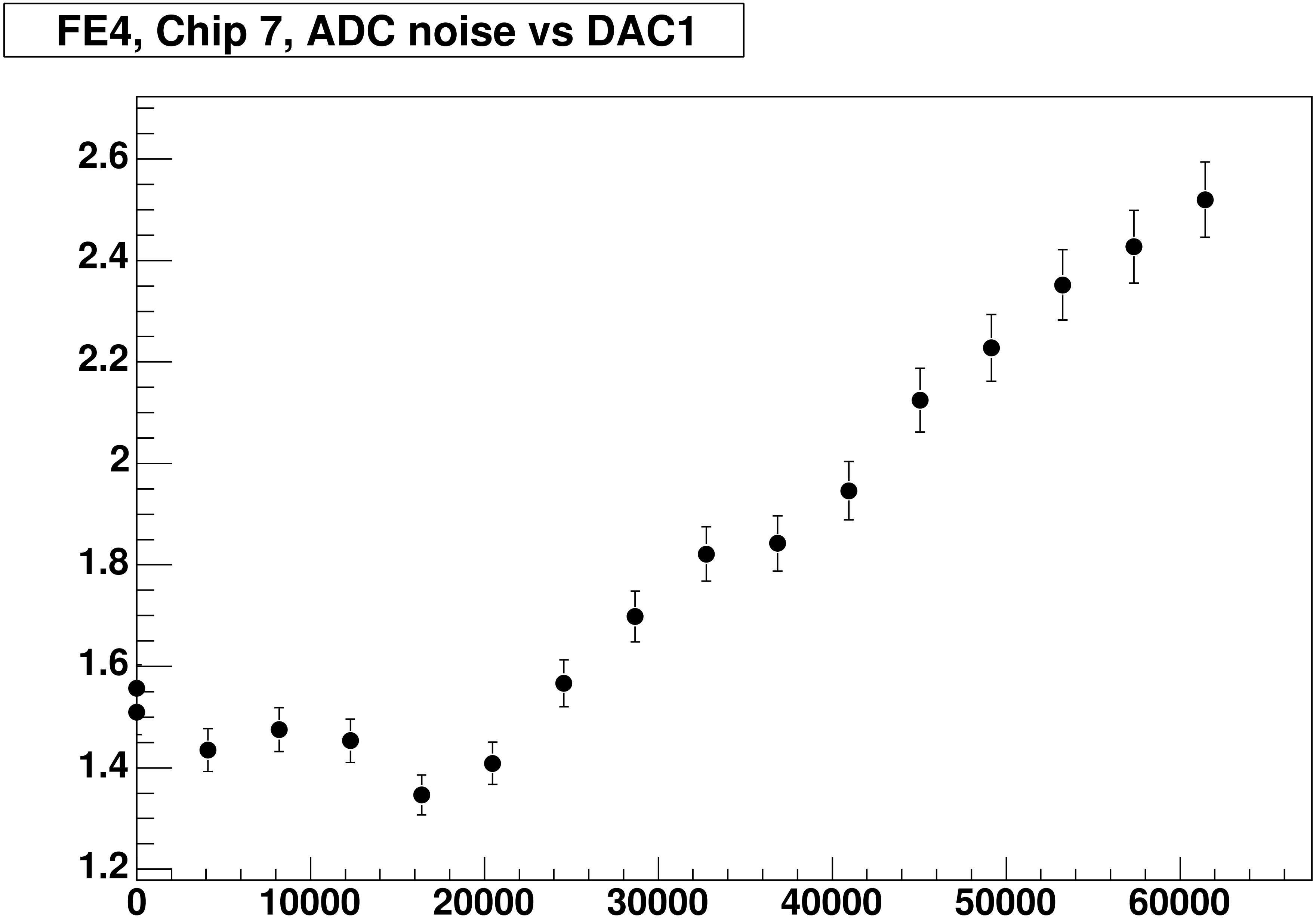


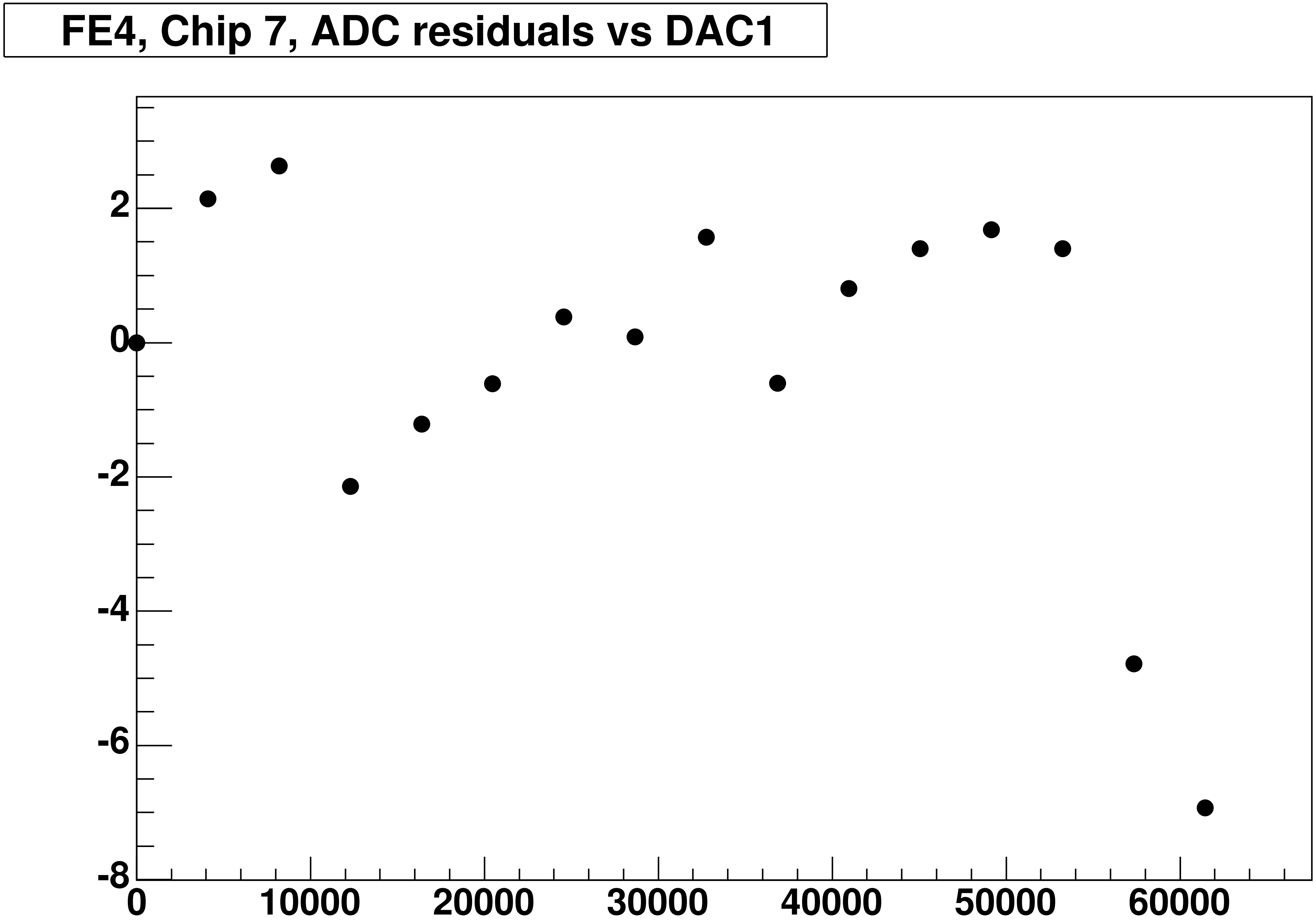
FE4, Chip 7, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

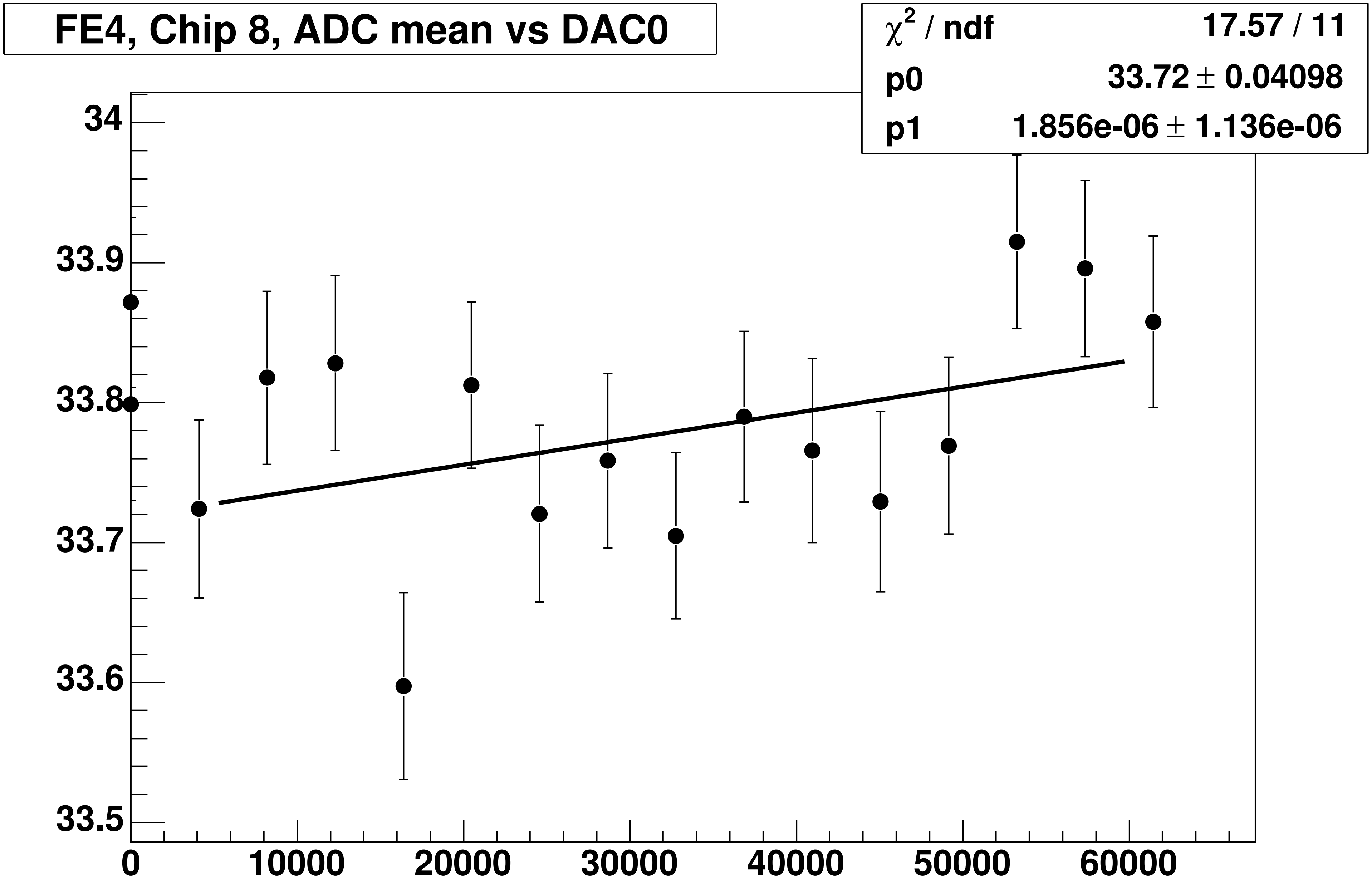

FE4, Chip 7, ADC residuals vs DAC0
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



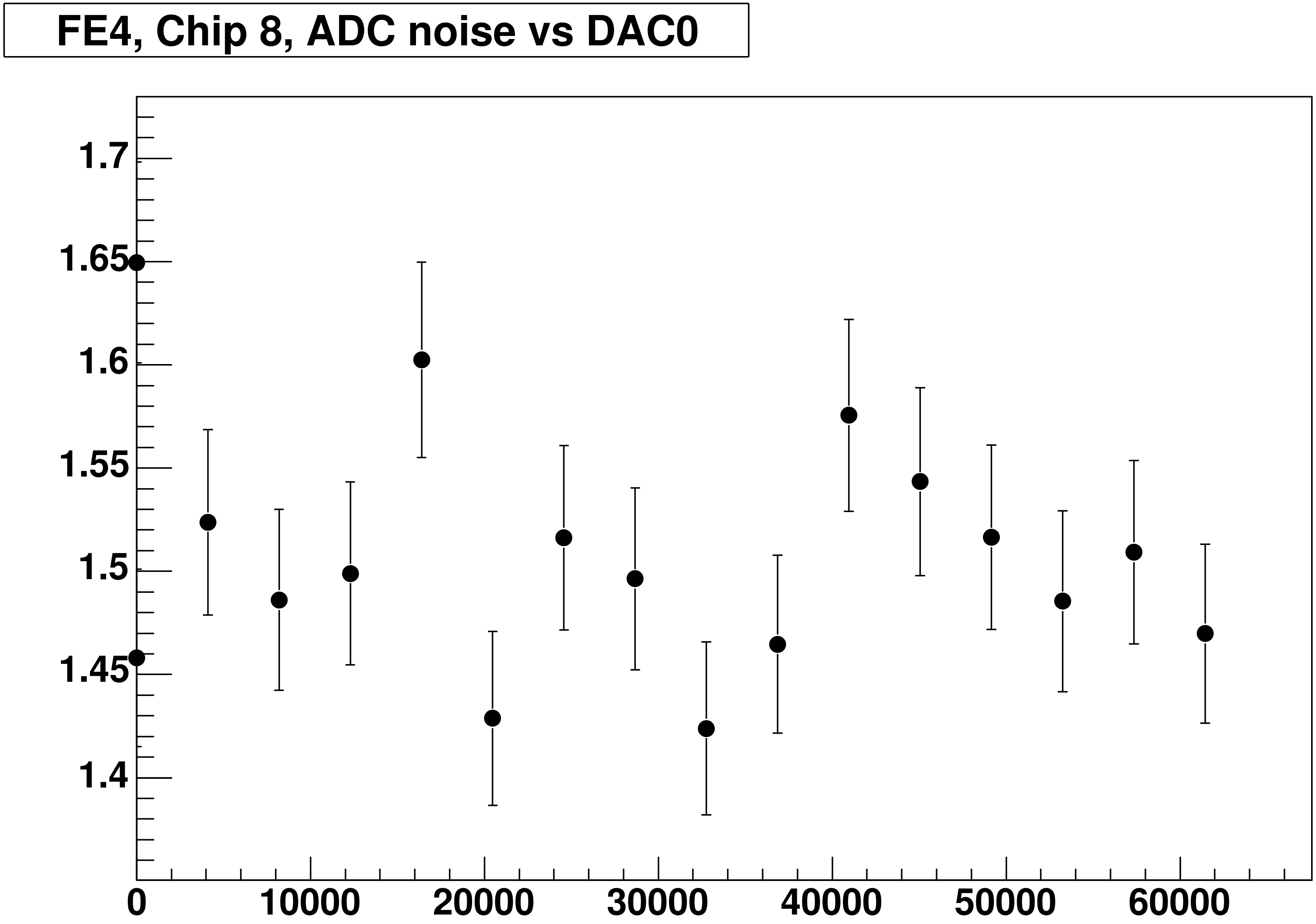
FE4, Chip 7, ADC mean vs DAC1
χ^2 / ndf 7296 / 11
p0 44.01 ± 0.04302
p1 0.4519 ± 1.394e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

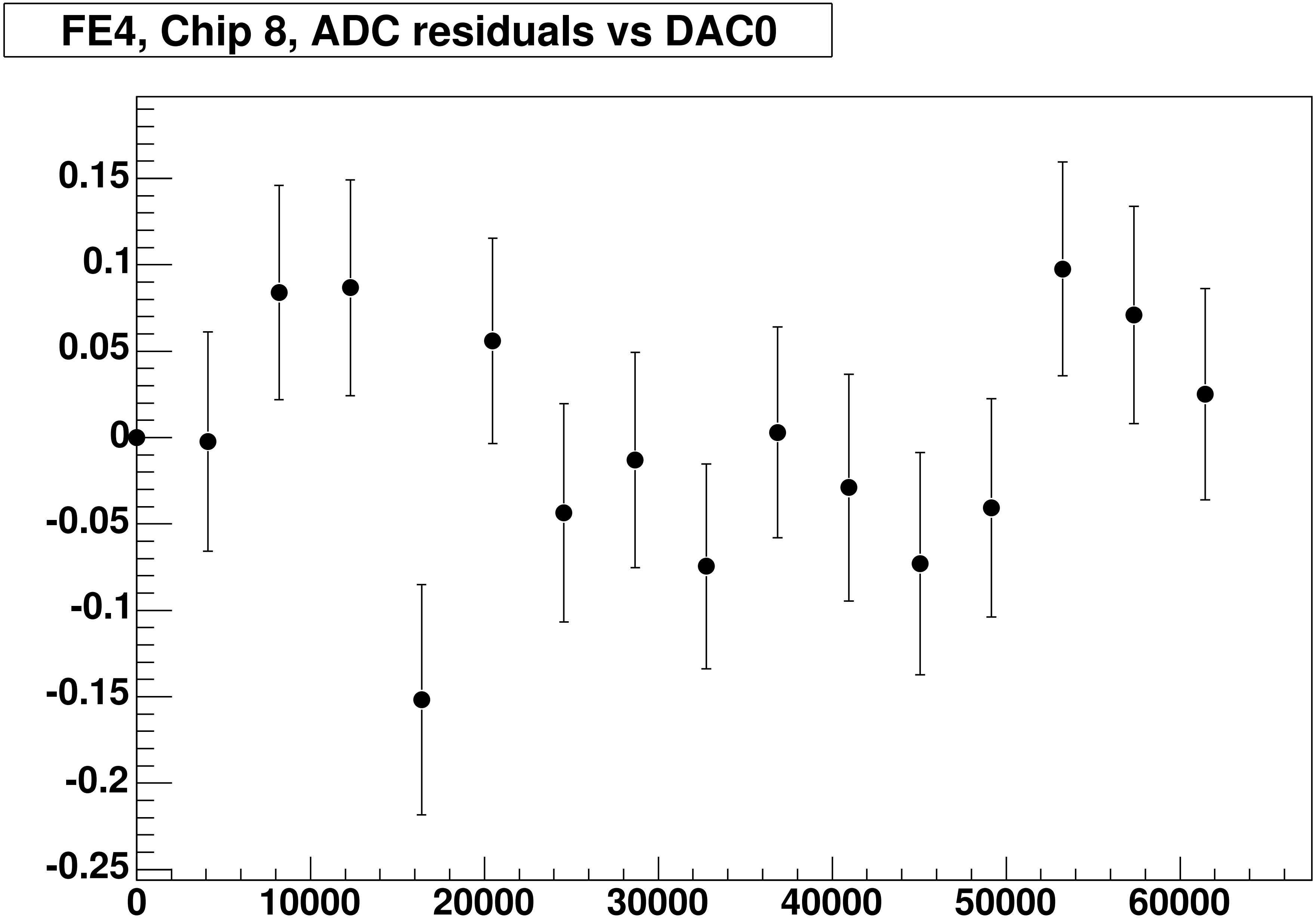

FE4, Chip 7, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

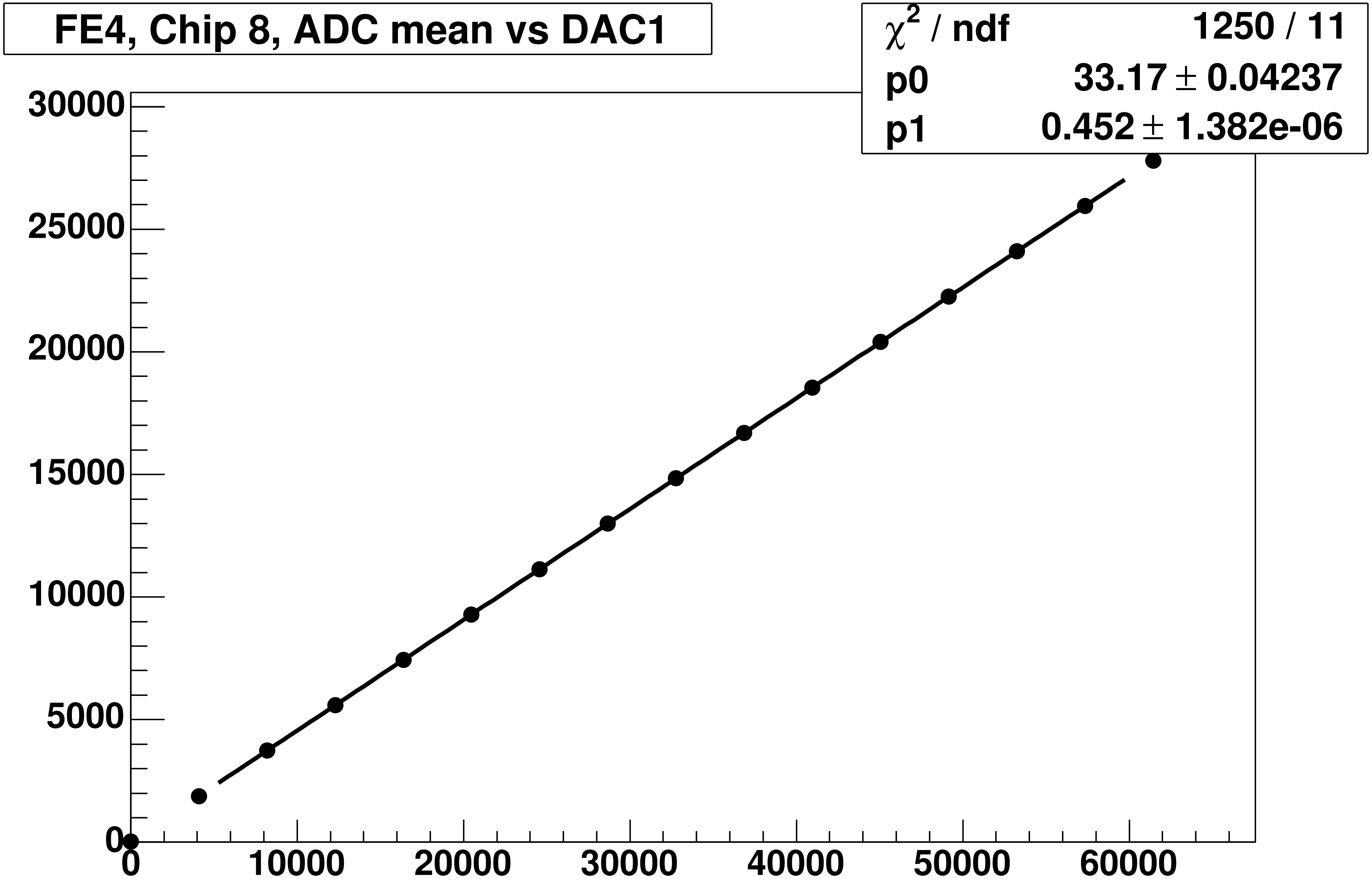

FE4, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

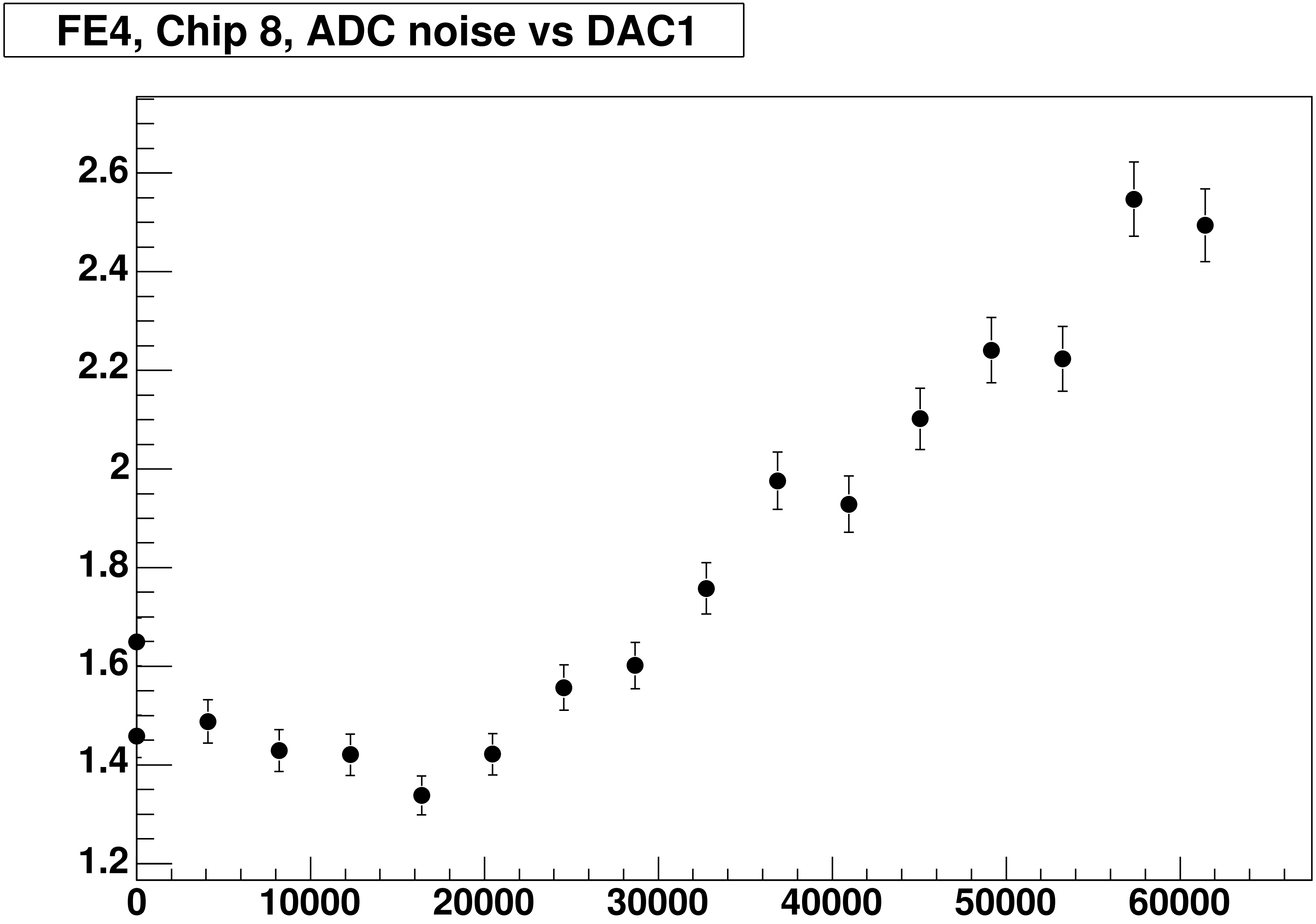


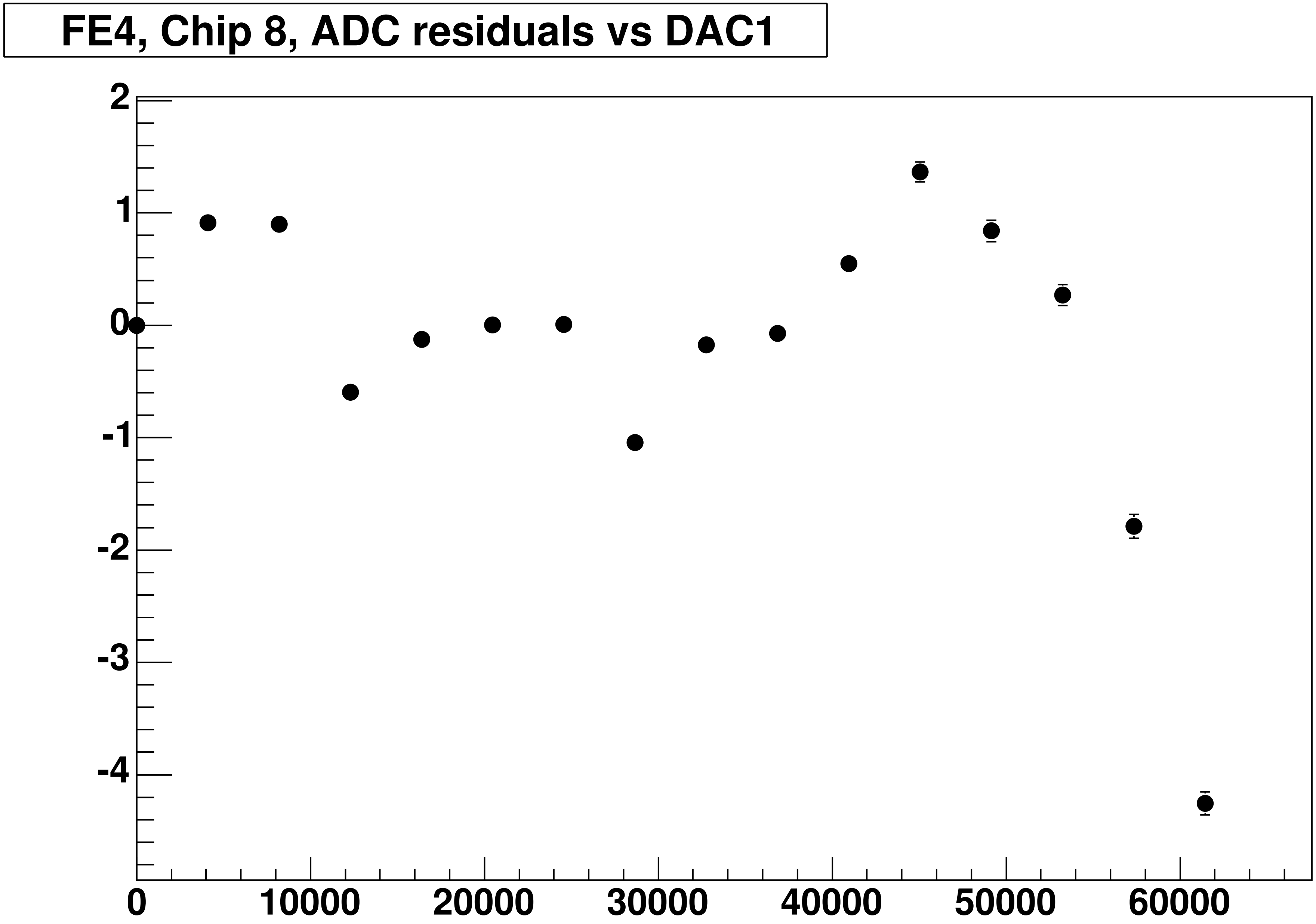
FE4, Chip 8, ADC mean vs DAC0
χ² / ndf 17.57 / 11
p0 33.72 ± 0.04098
p1 1.856e-06 ± 1.136e-06
34
33.9
33.8
33.7
33.6
33.5
0
10000
20000
30000
40000
50000
60000

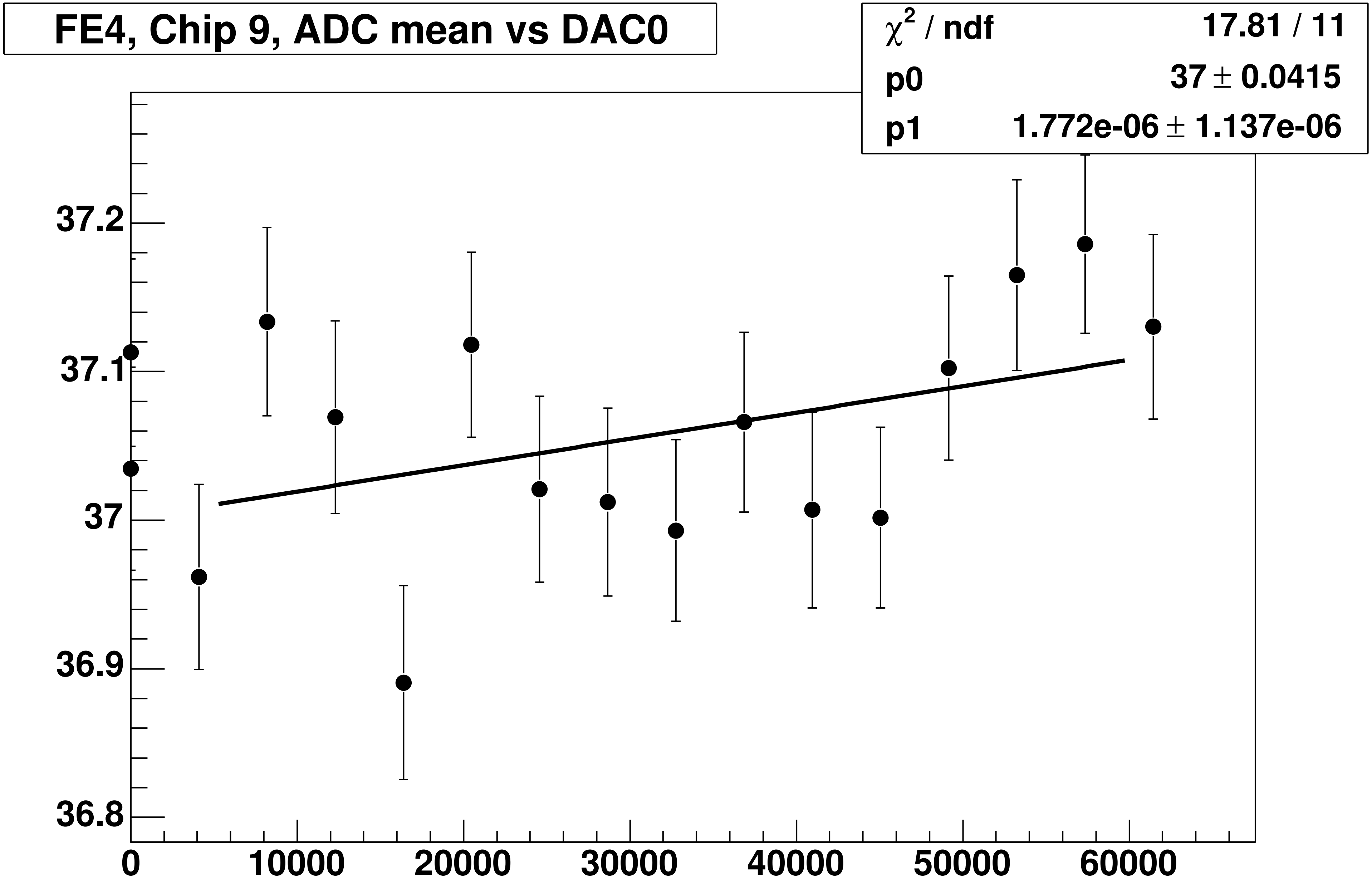

FE4, Chip 8, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

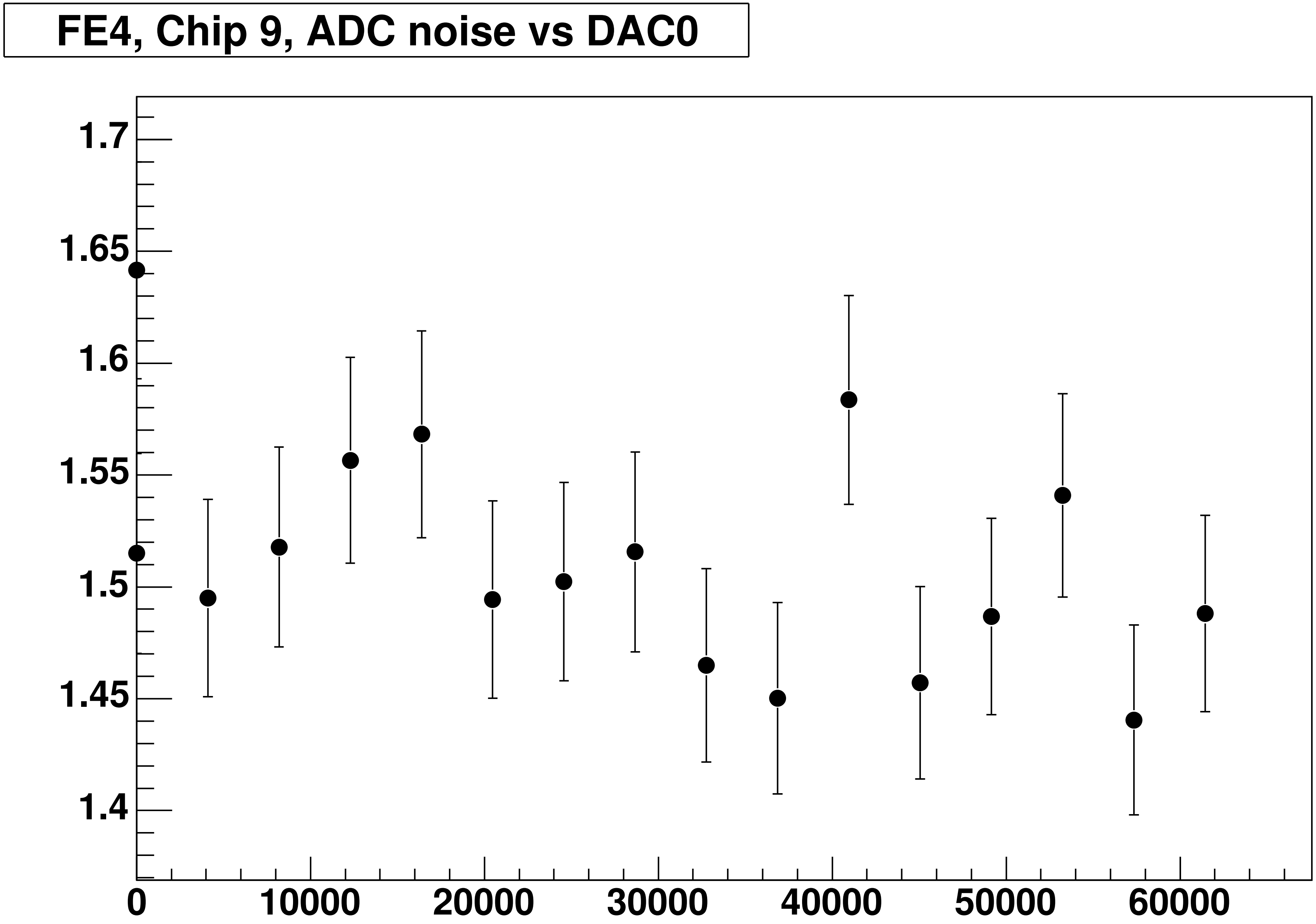

FE4, Chip 8, ADC residuals vs DAC0
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
10000
20000
30000
40000
50000
60000

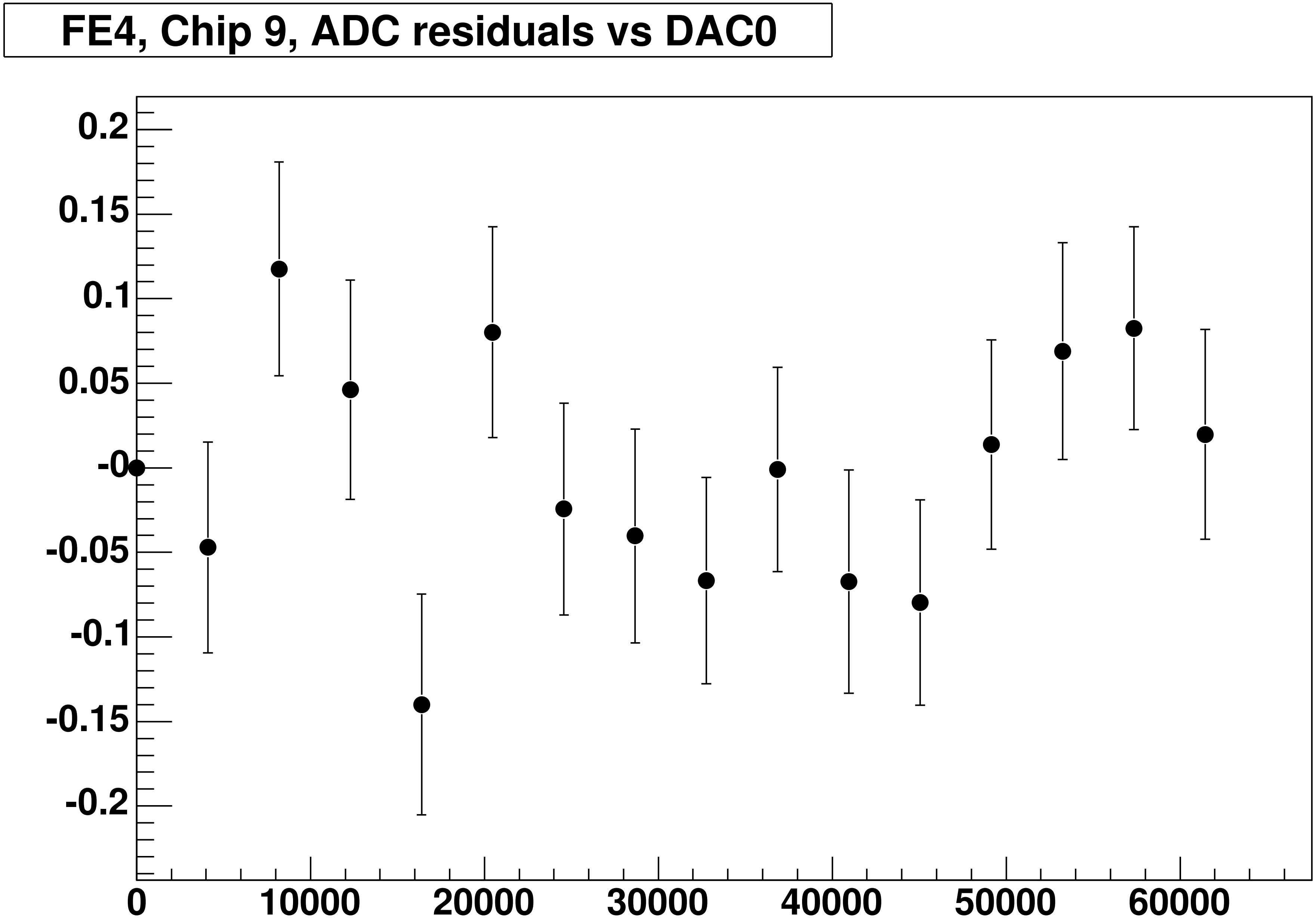

FE4, Chip 8, ADC mean vs DAC1
χ^2 / ndf 1250 / 11
p0 33.17 ± 0.04237
p1 0.452 ± 1.382e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

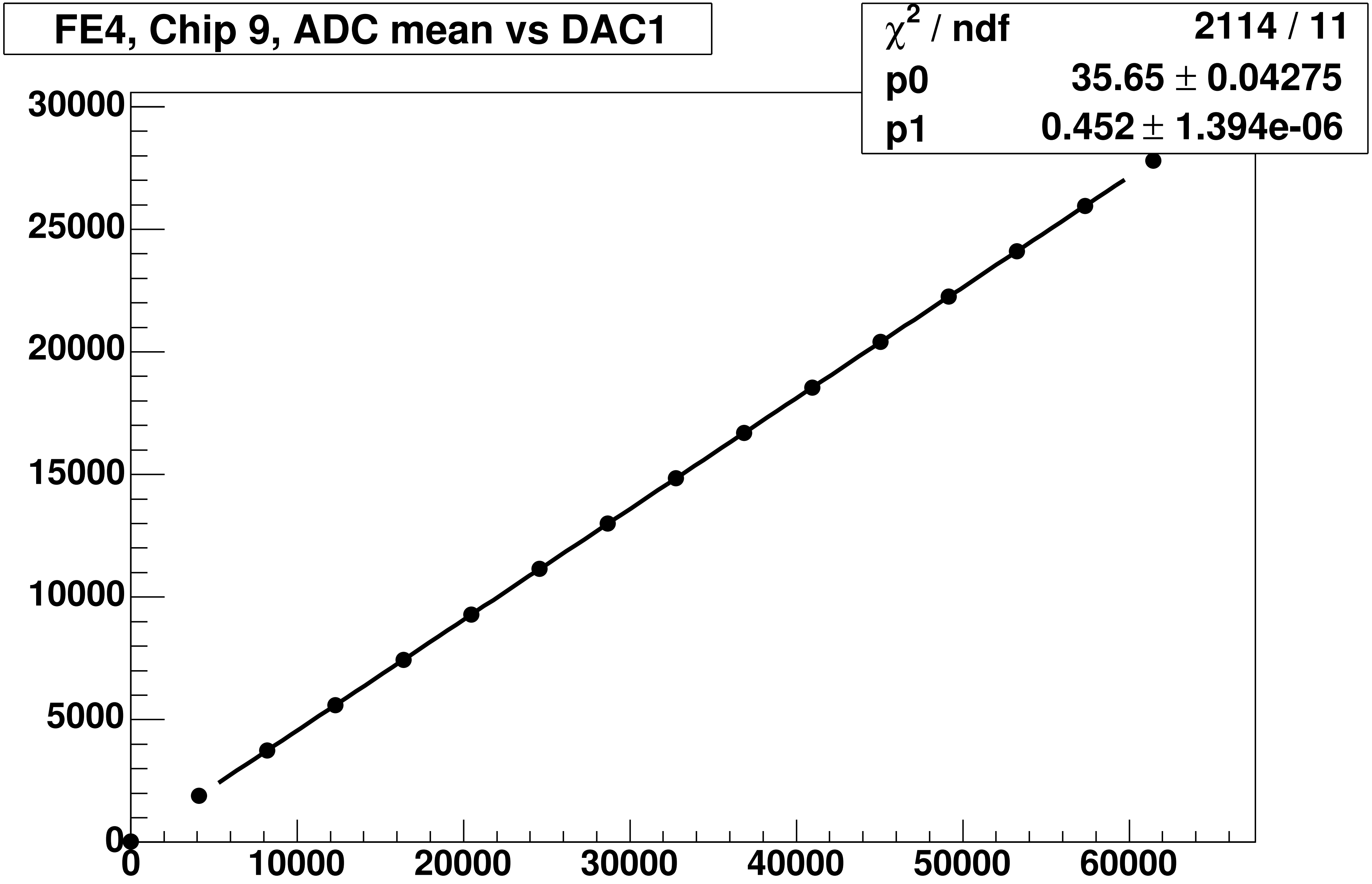

FE4, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

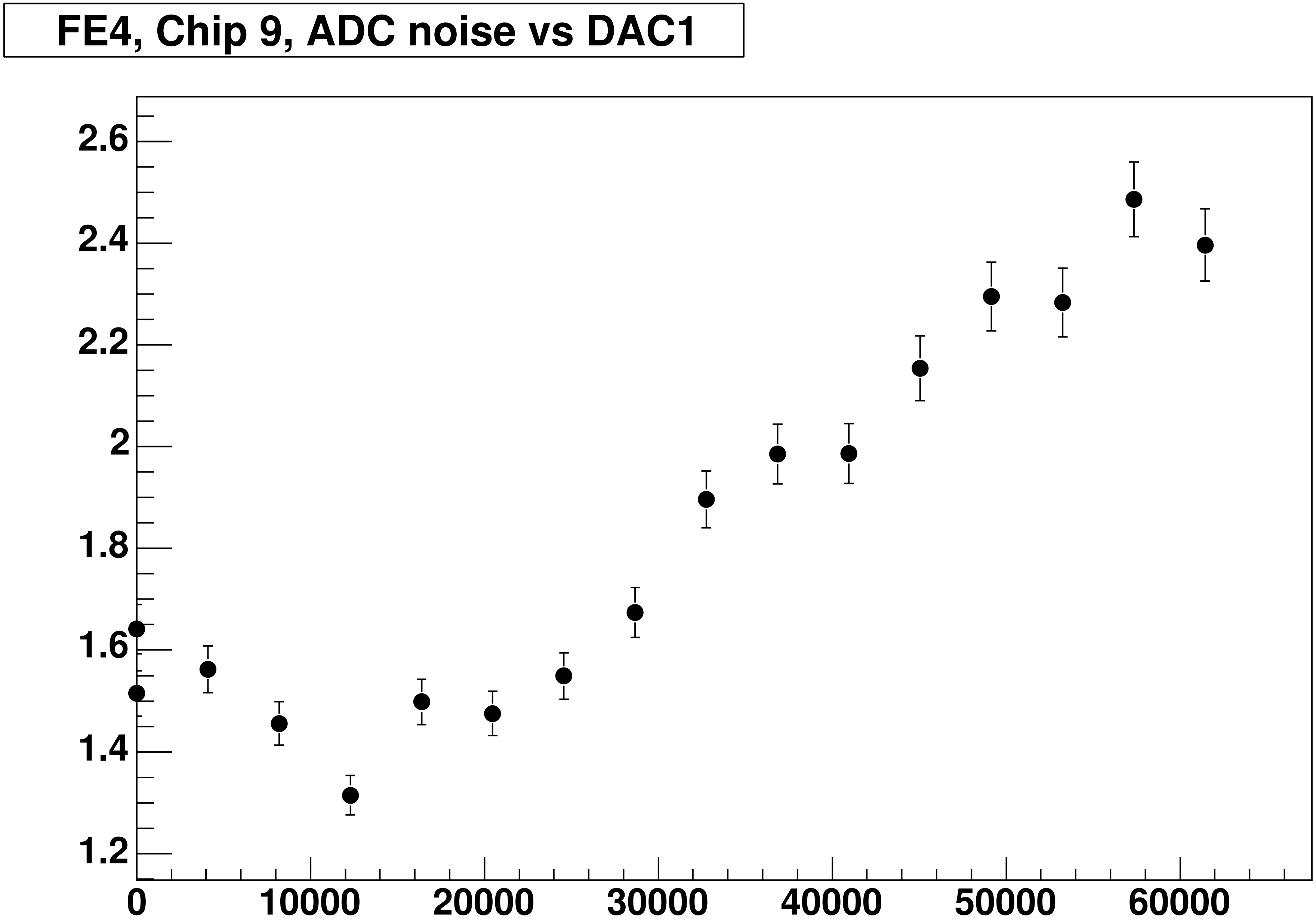

FE4, Chip 9, ADC mean vs DAC0
χ^2 / ndf 17.81 / 11
p0 37 ± 0.0415
p1 1.772e-06 ± 1.137e-06
37.2
37.1
37
36.9
36.8
0
10000
20000
30000
40000
50000
60000

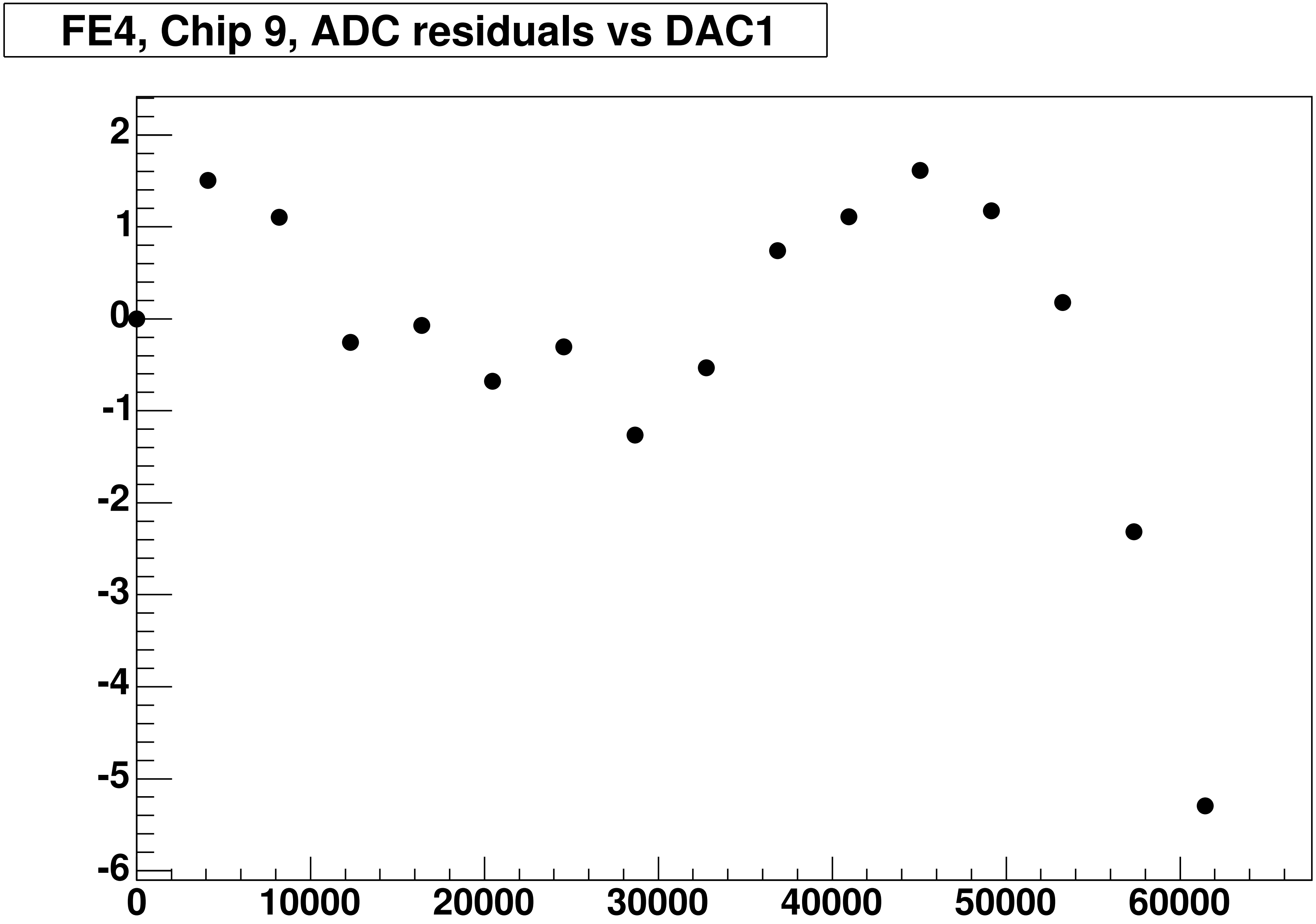

FE4, Chip 9, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000


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

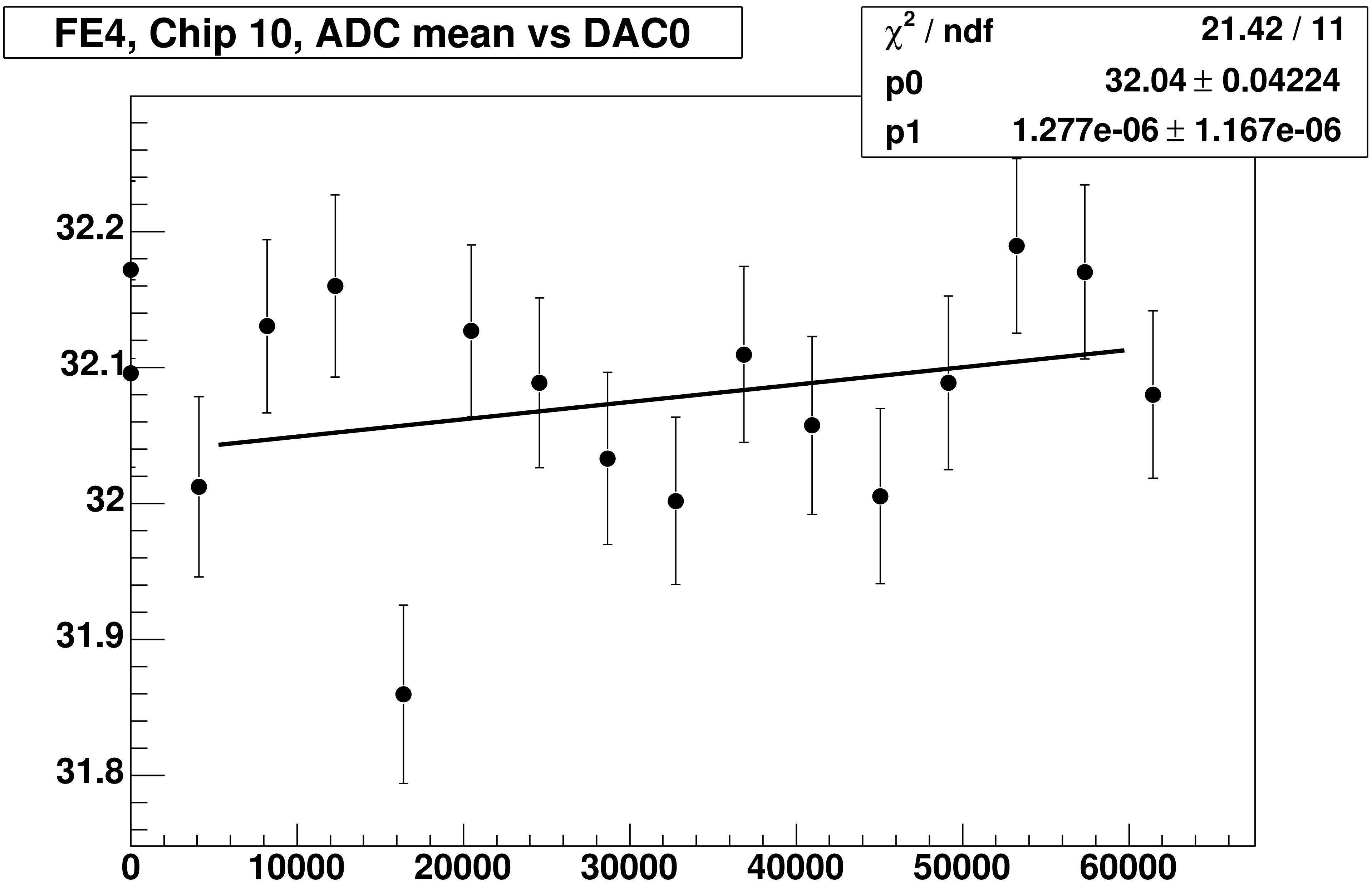


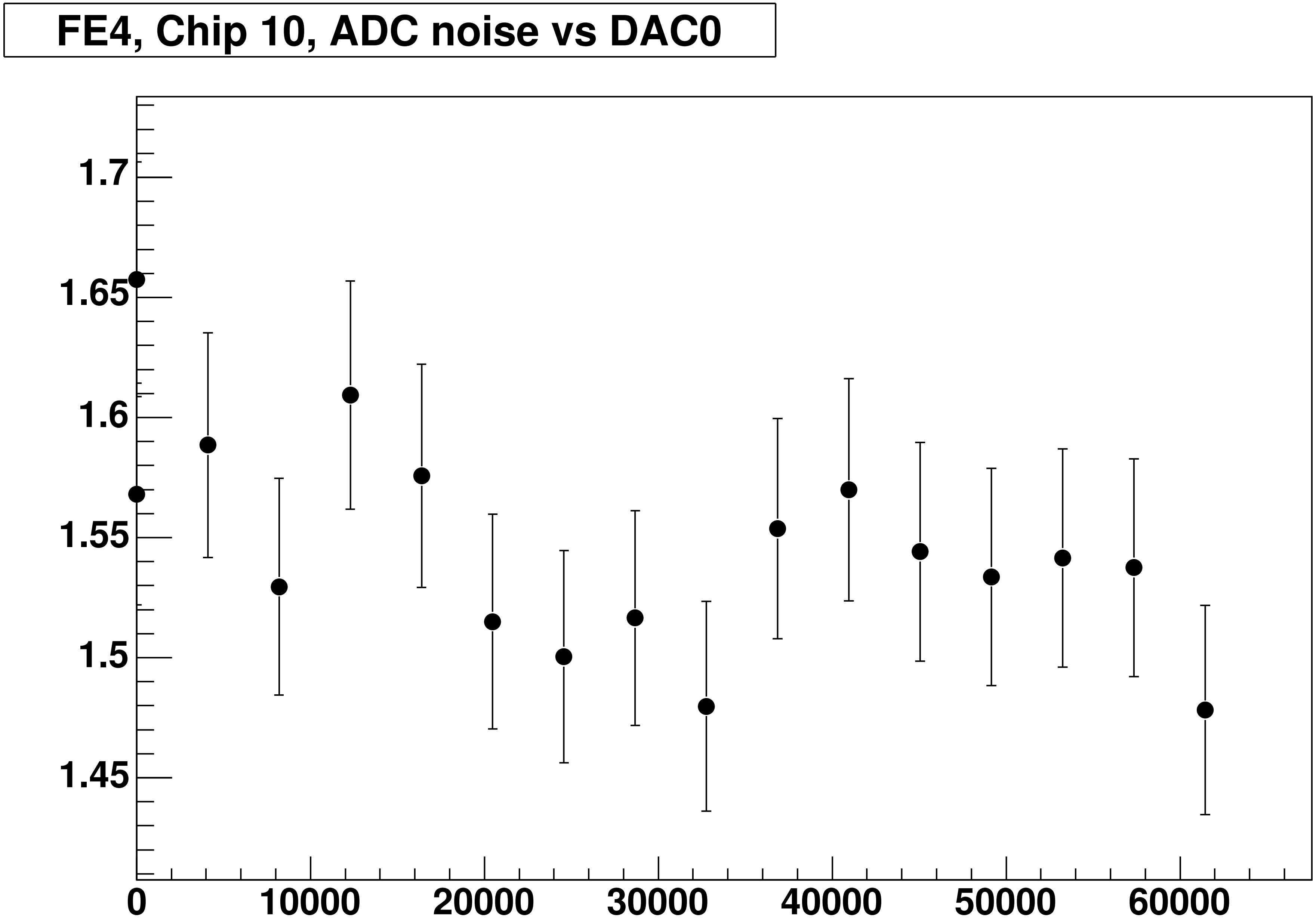
FE4, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2114 / 11
p0 35.65 ± 0.04275
p1 0.452 ± 1.394e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

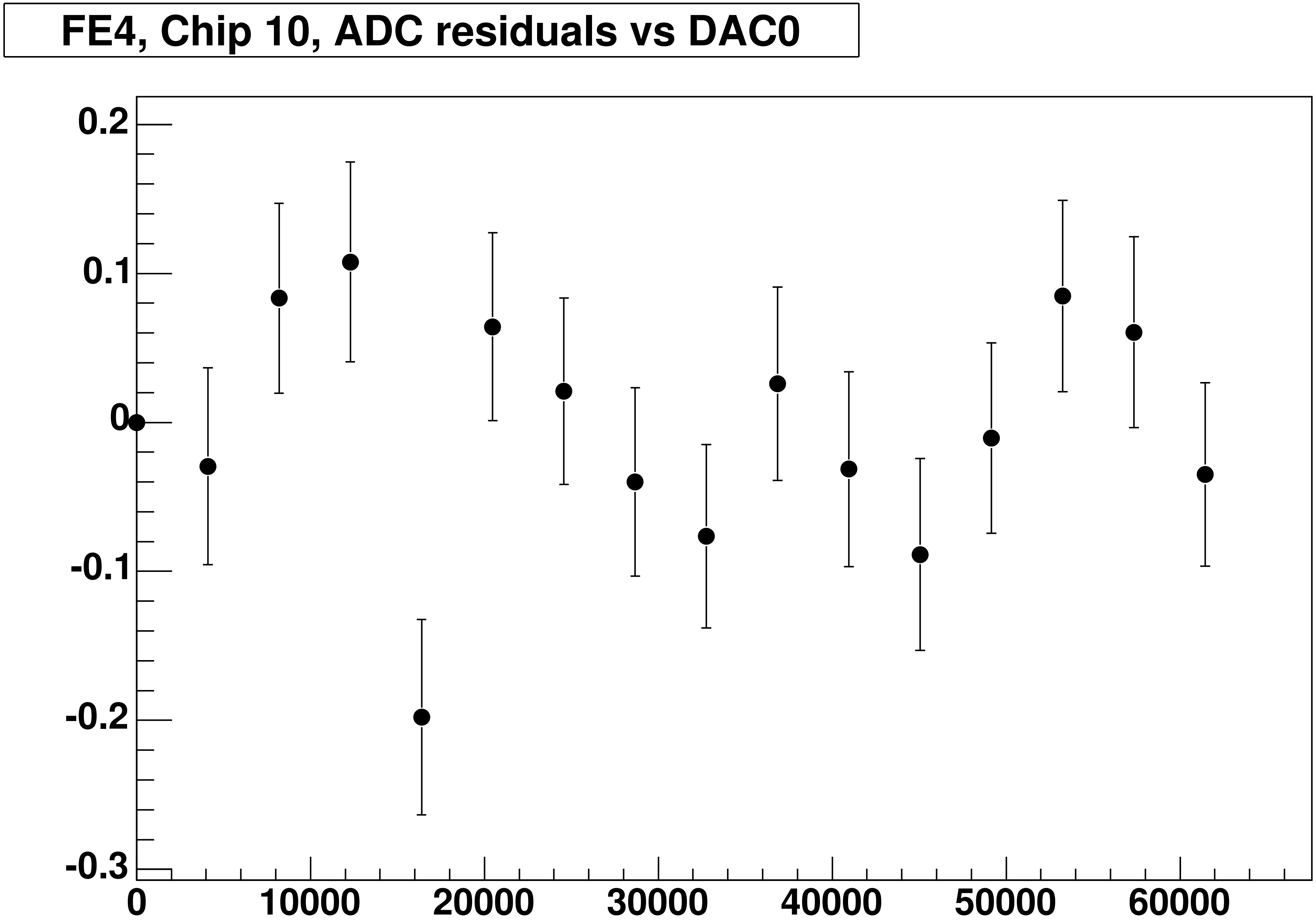

FE4, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

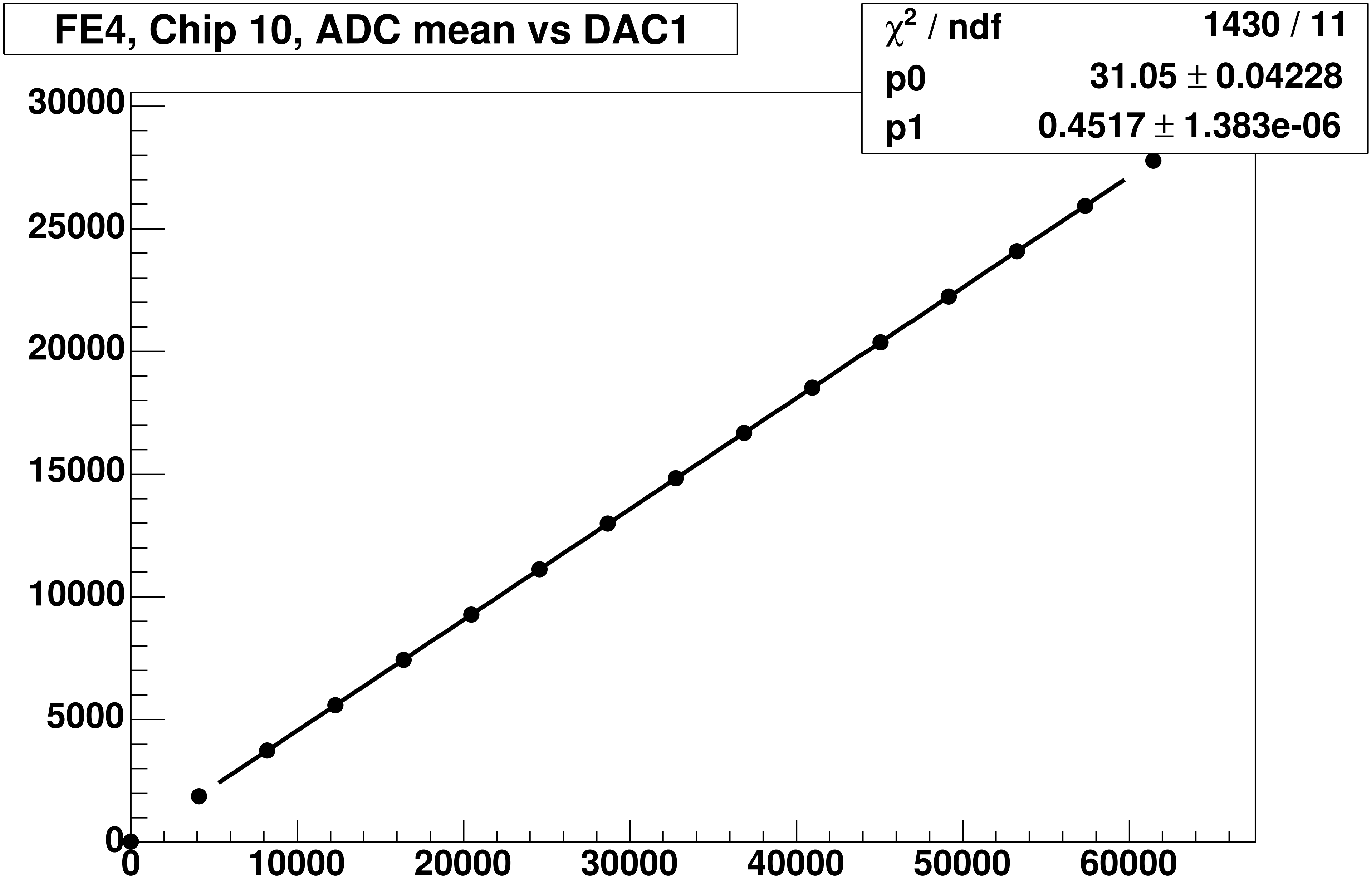


FE4, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

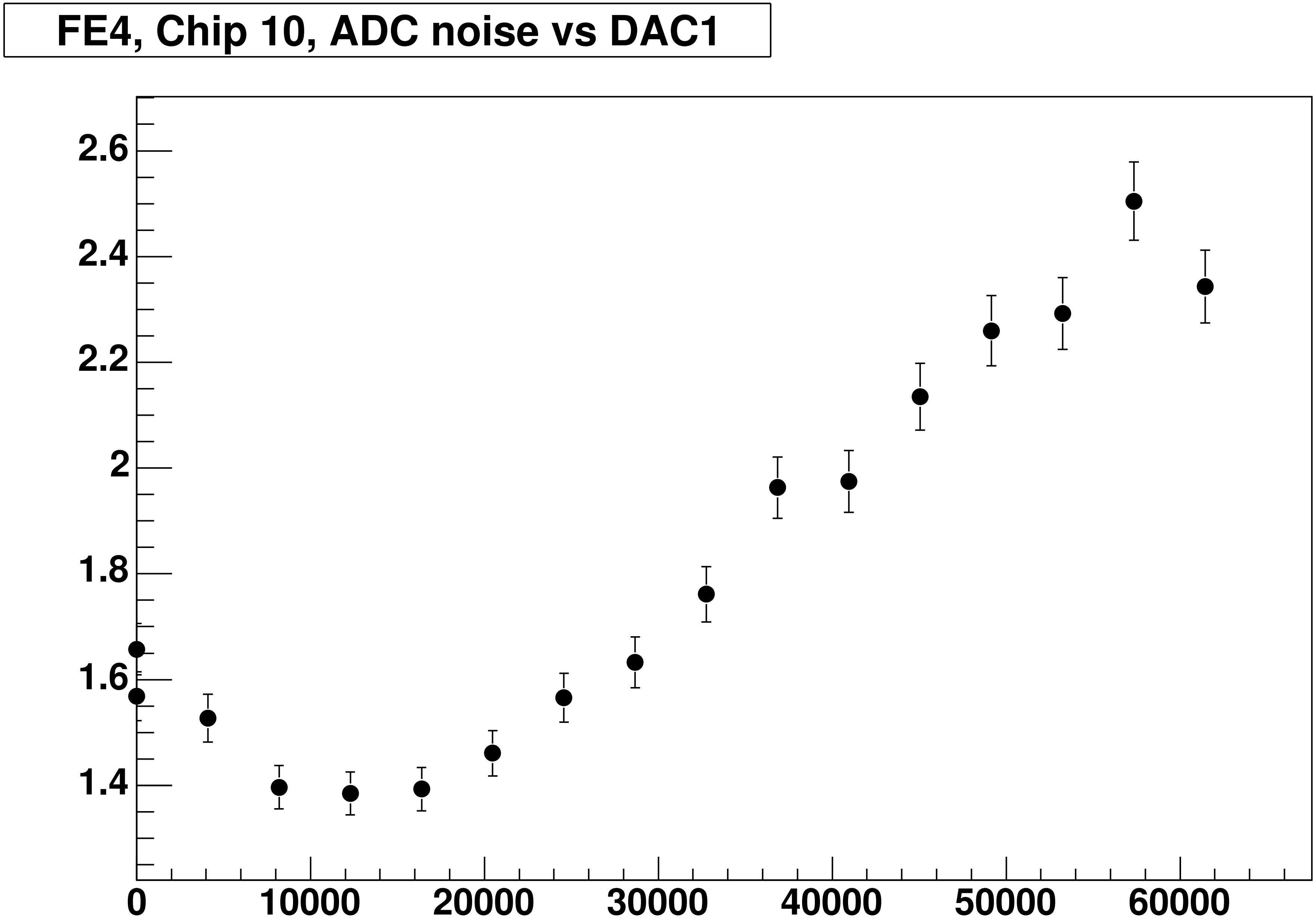

FE4, Chip 10, ADC mean vs DAC0
χ^2 / ndf 21.42 / 11
p0 32.04 ± 0.04224
p1 1.277e-06 ± 1.167e-06
32.2
32.1
32
31.9
31.8
0
10000
20000
30000
40000
50000
60000


FE4, Chip 10, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

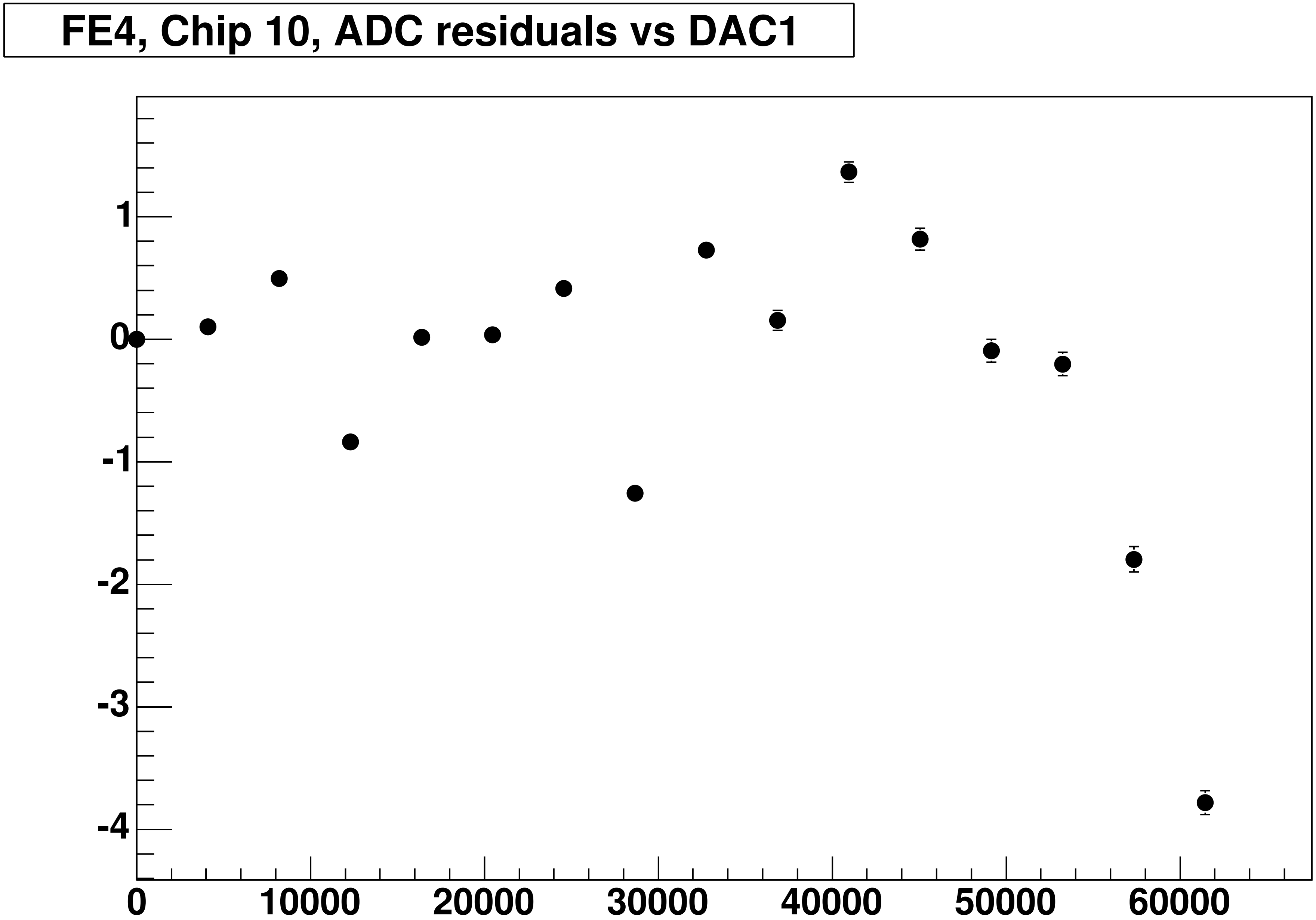

FE4, Chip 10, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

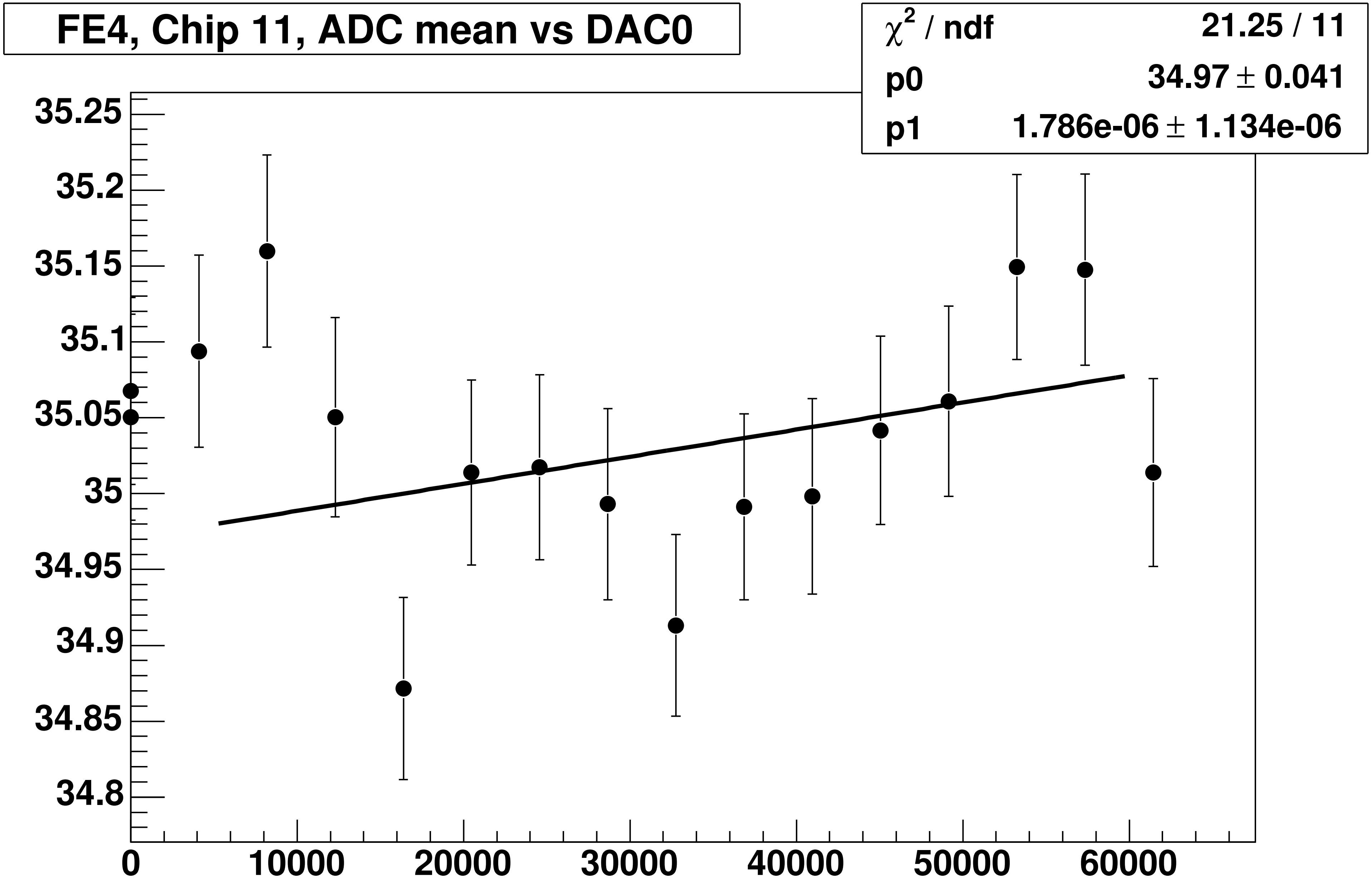


FE4, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1430 / 11
p0 31.05 ± 0.04228
p1 0.4517 ± 1.383e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

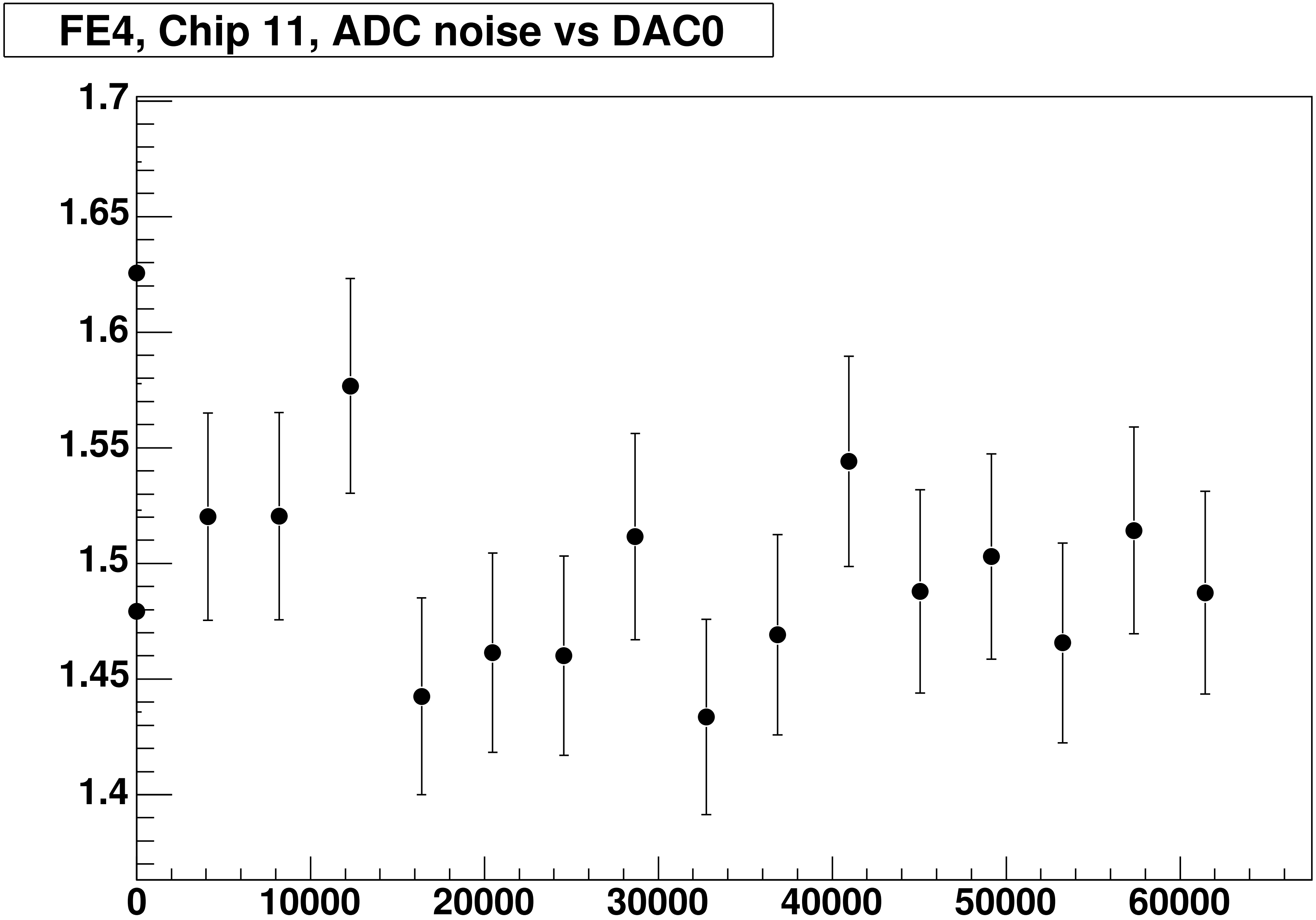


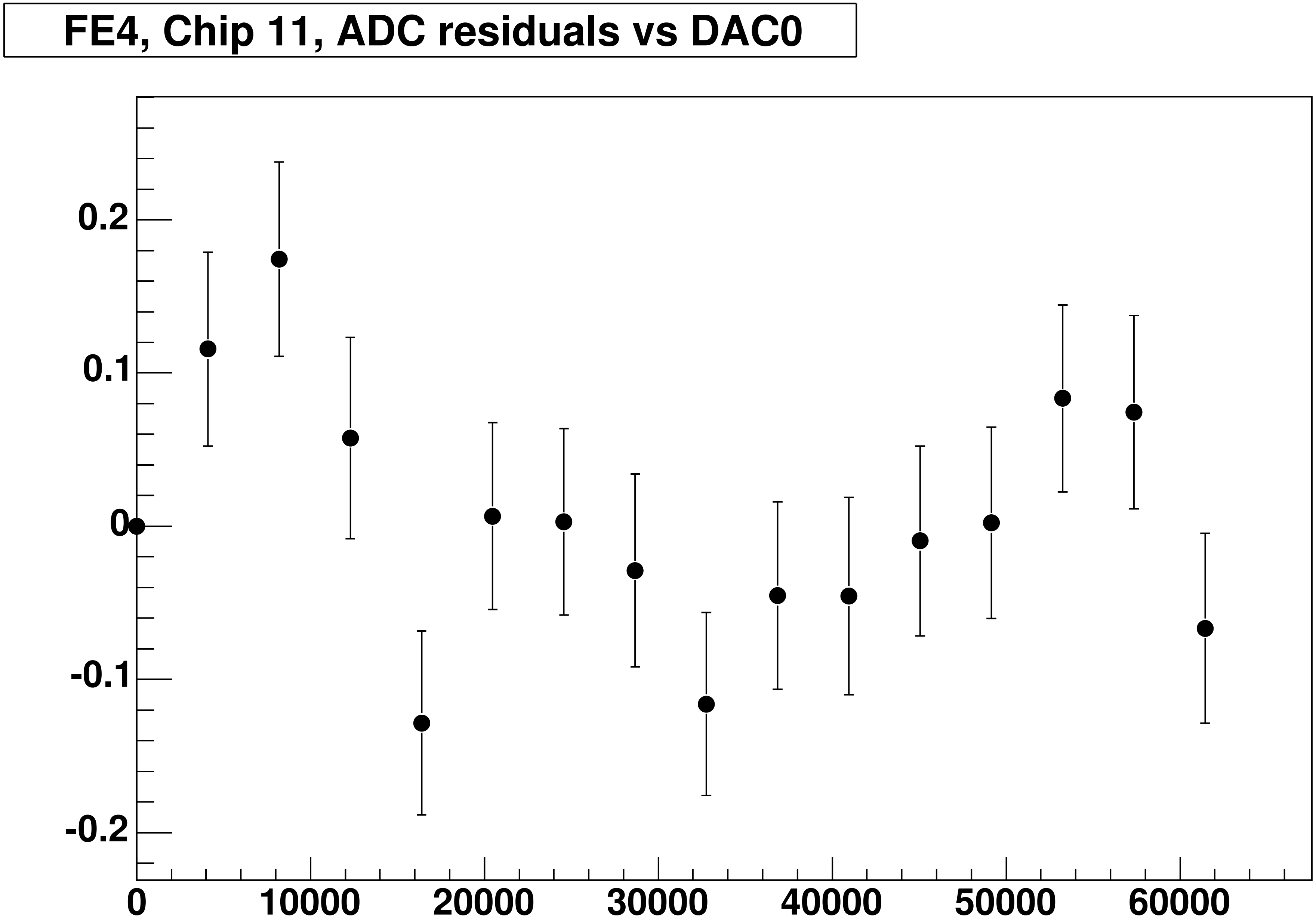
FE4, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

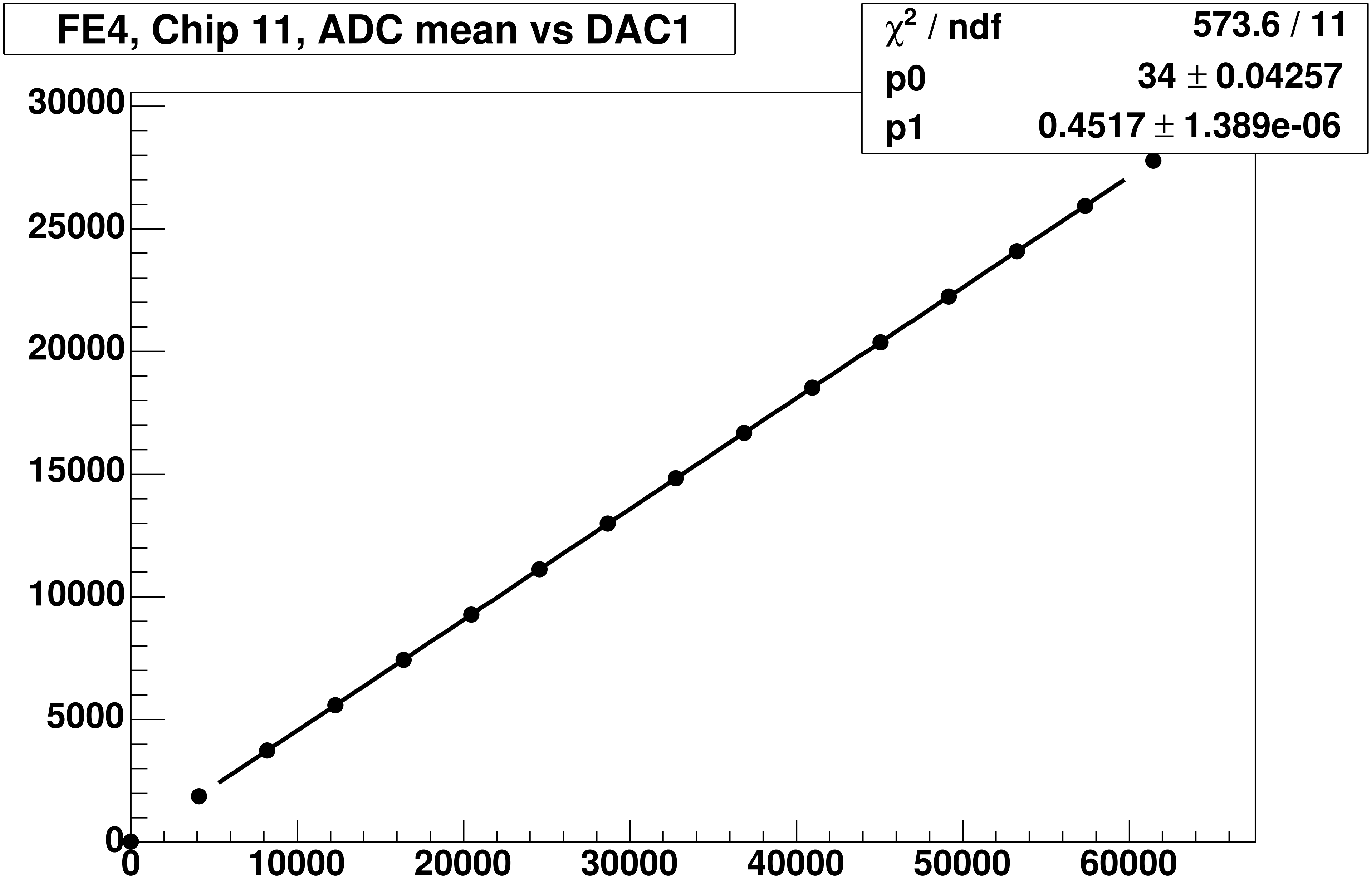

FE4, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



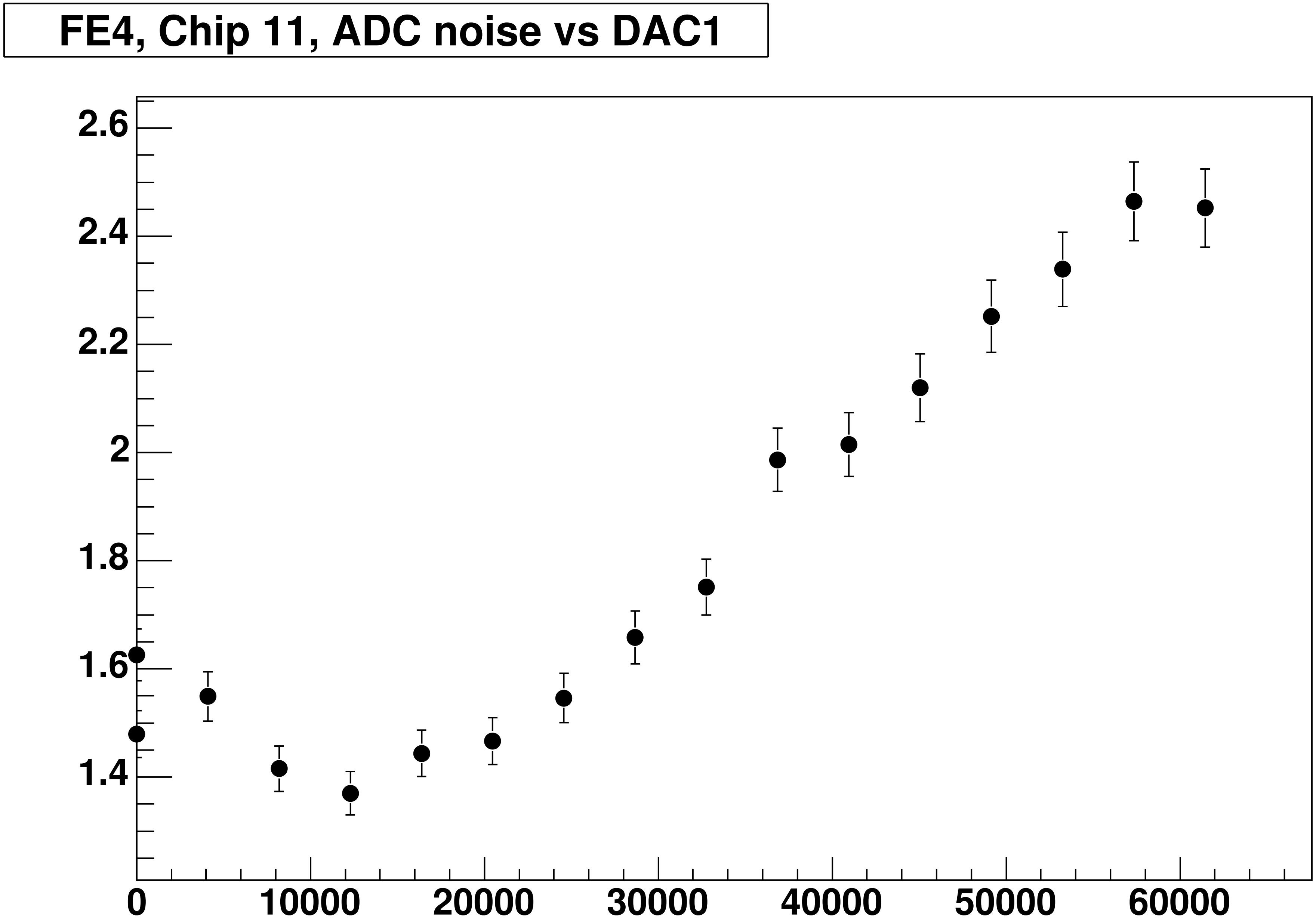
FE4, Chip 11, ADC mean vs DAC0
χ^2 / ndf 21.25 / 11
p0 34.97 ± 0.041
p1 1.786e-06 ± 1.134e-06
35.25
35.2
35.15
35.1
35.05
35
34.95
34.9
34.85
34.8
0
10000
20000
30000
40000
50000
60000


FE4, Chip 11, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

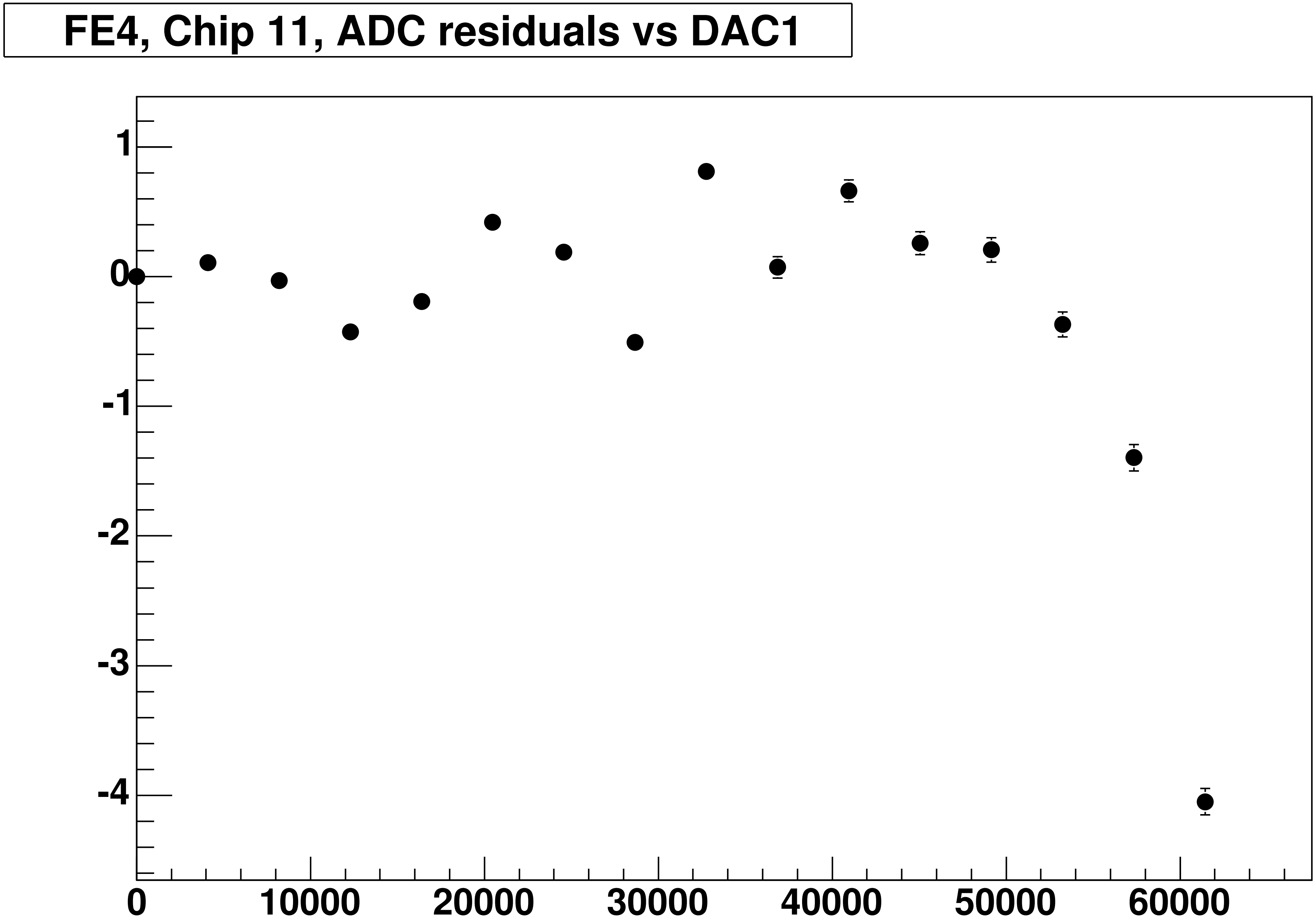

FE4, Chip 11, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



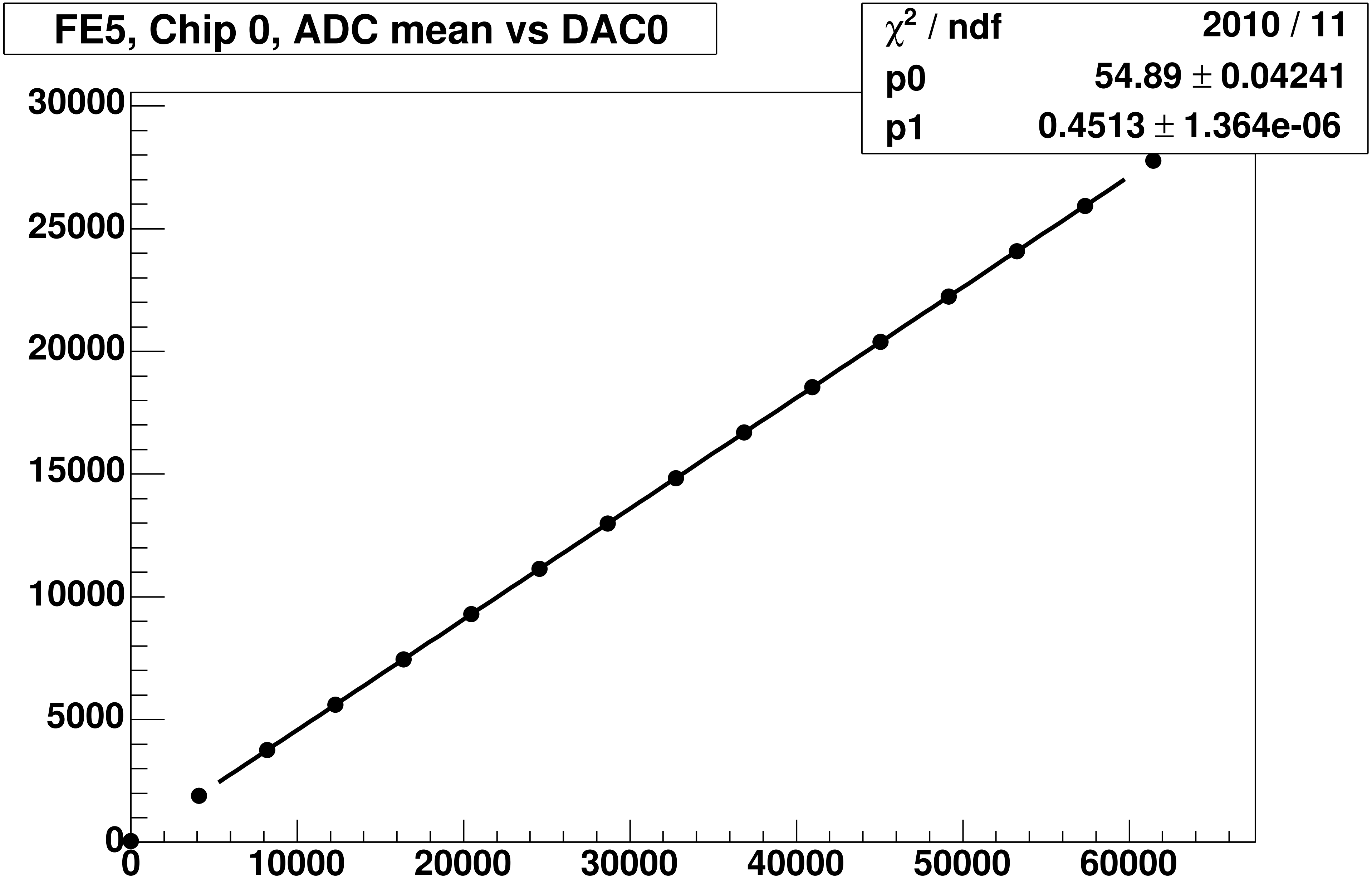
FE4, Chip 11, ADC mean vs DAC1
χ^2 / ndf 573.6 / 11
p0 34 ± 0.04257
p1 0.4517 ± 1.389e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



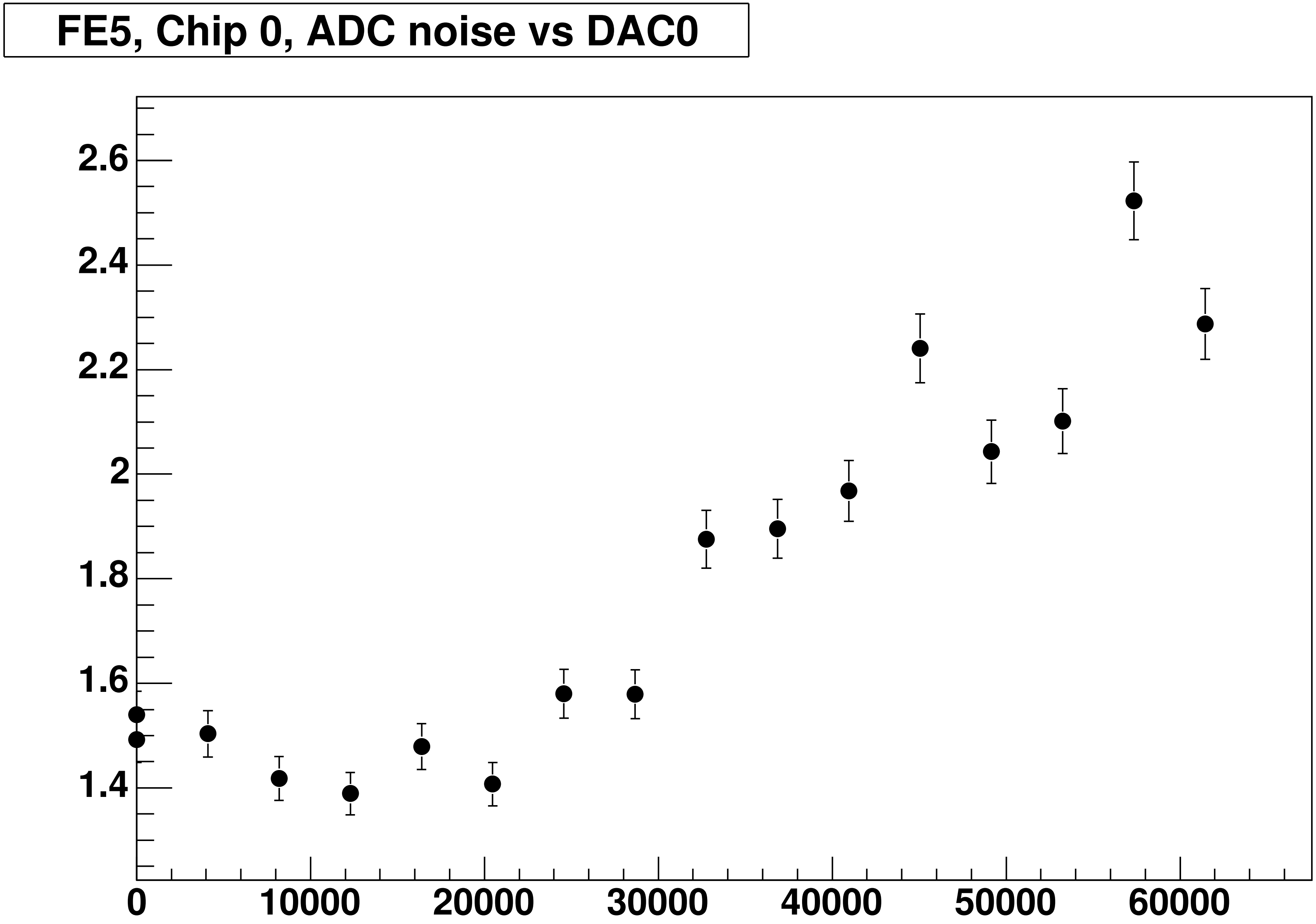
FE4, Chip 11, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

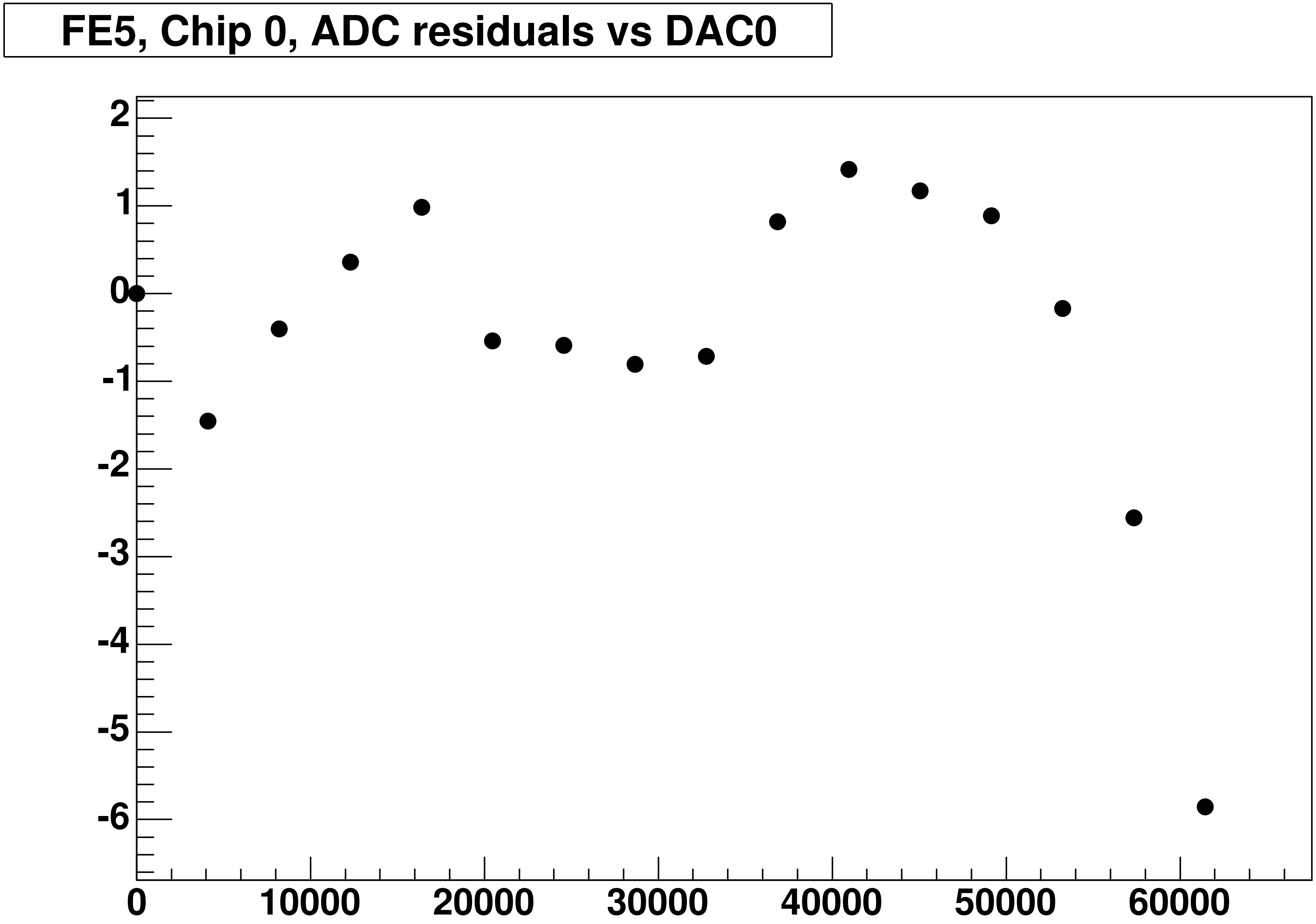


FE4, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000

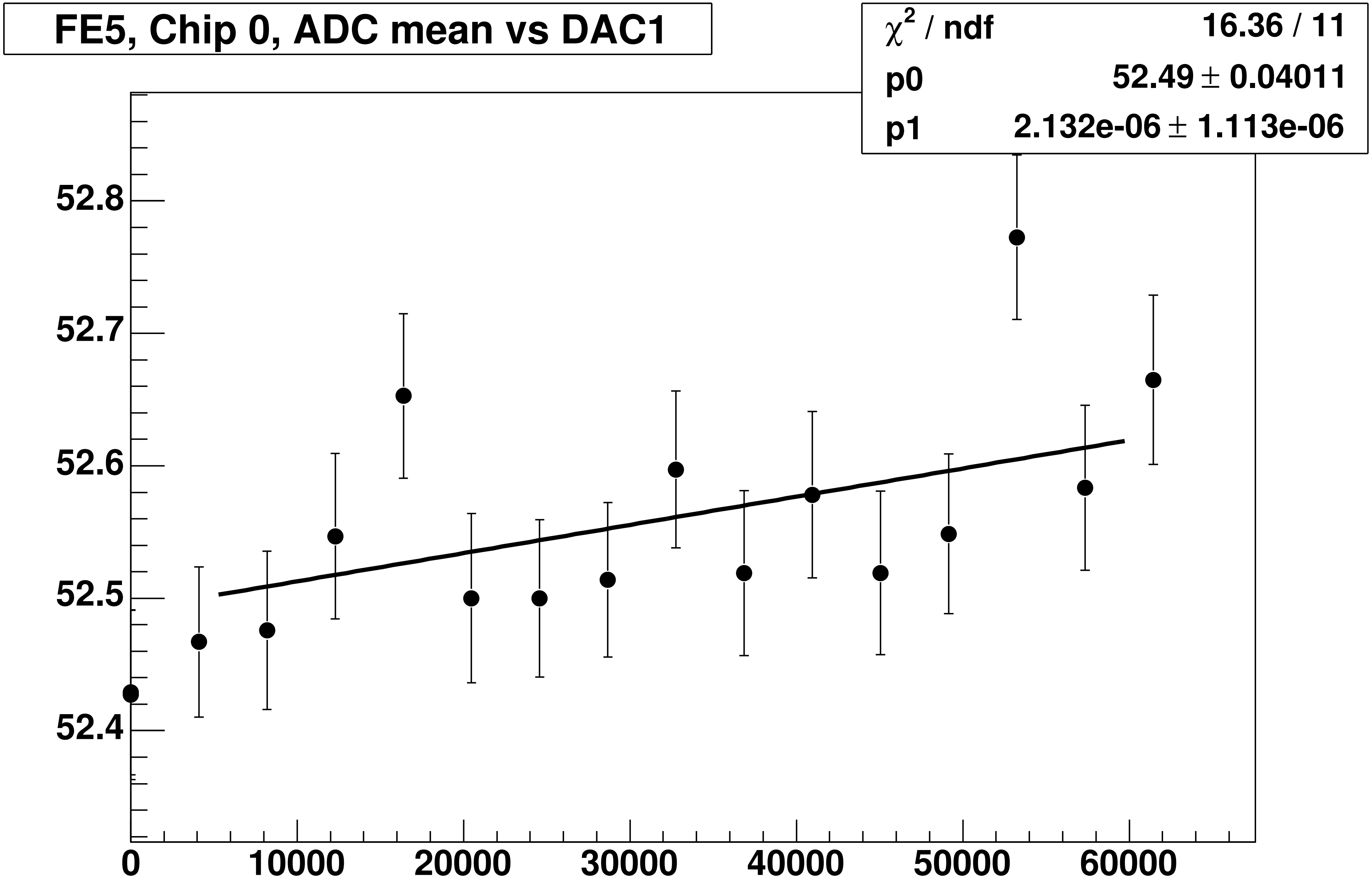


FE5, Chip 0, ADC mean vs DAC0
χ^2 / ndf 2010 / 11
p0 54.89 ± 0.04241
p1 0.4513 ± 1.364e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

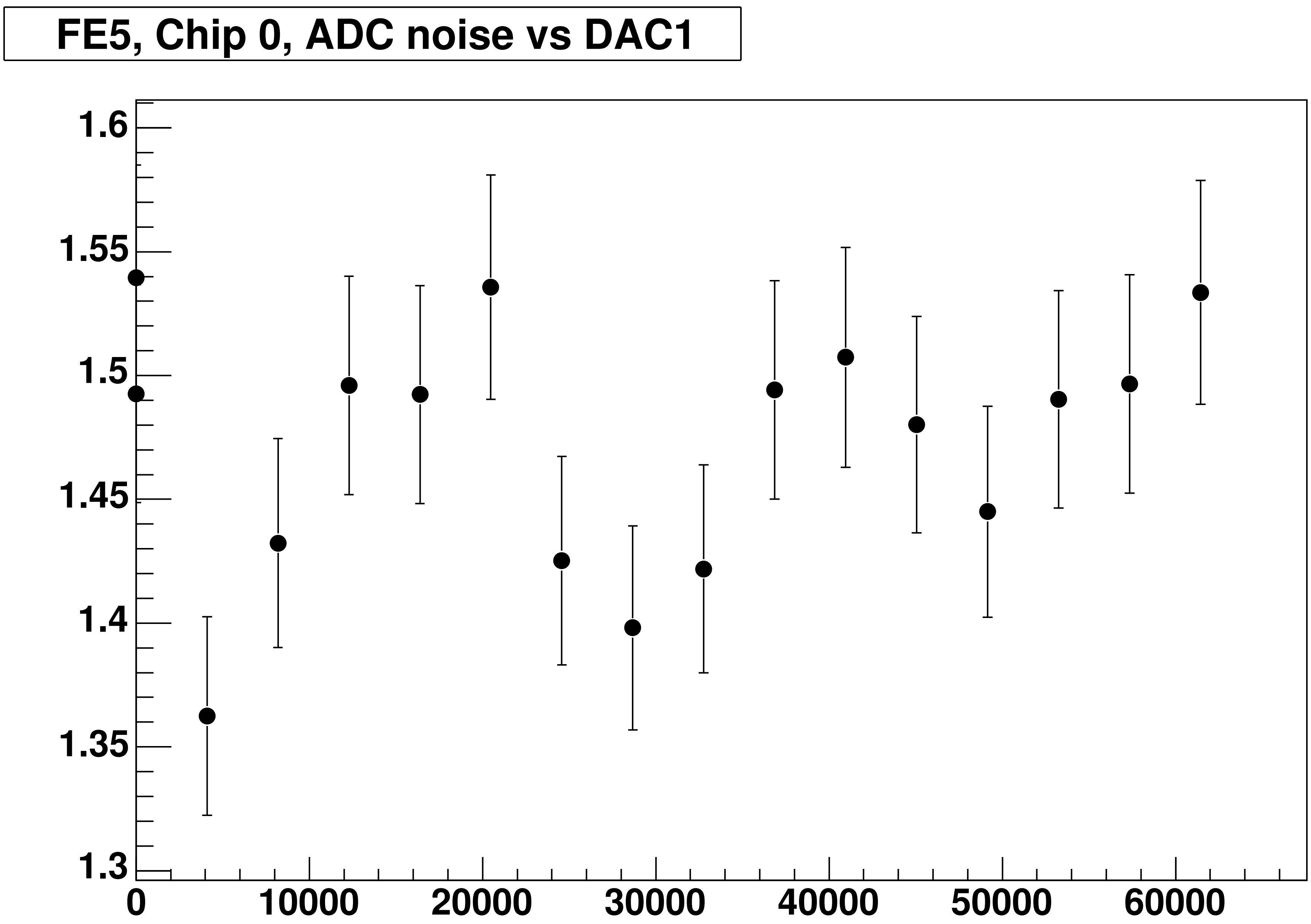

FE5, Chip 0, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

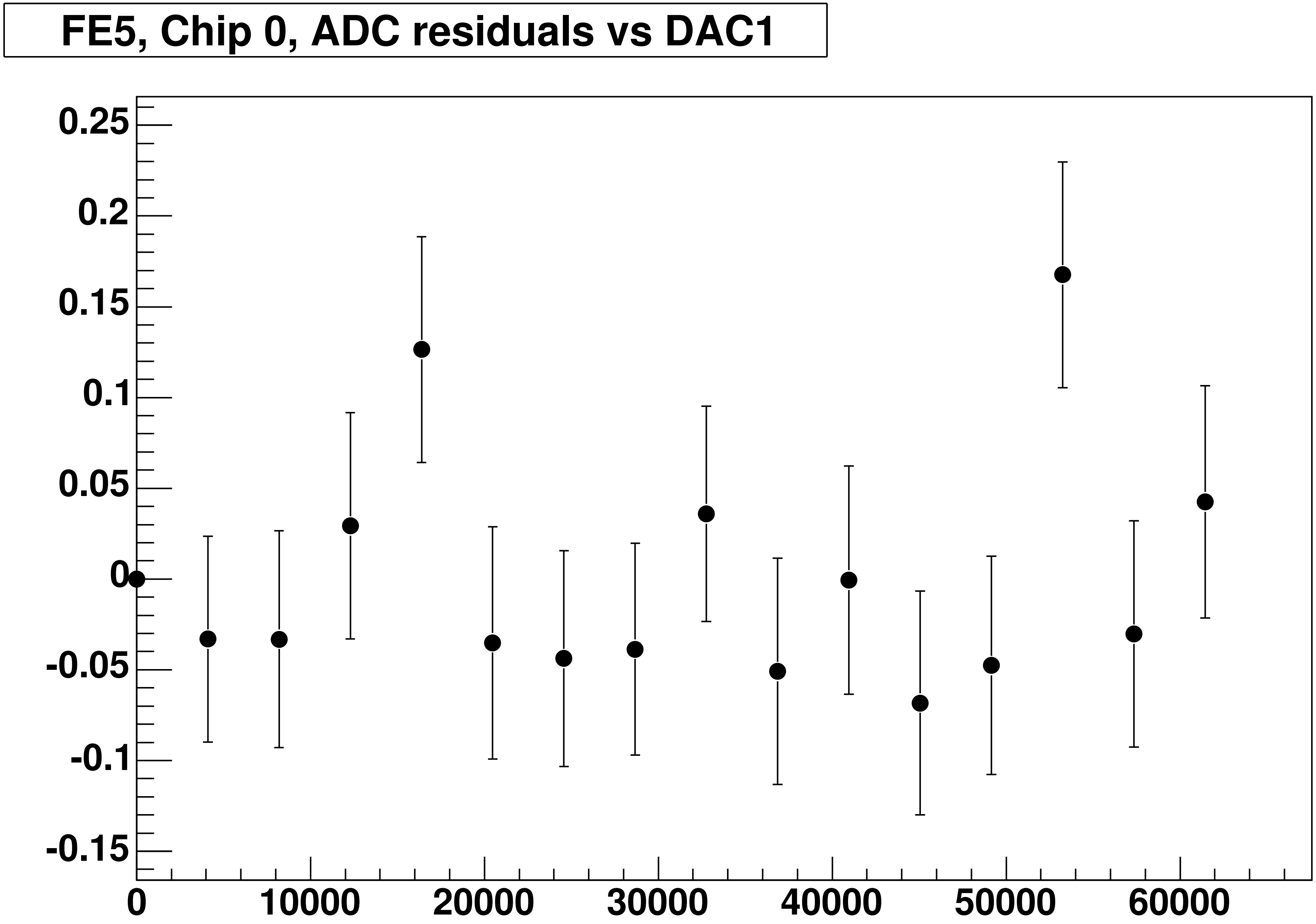


FE5, Chip 0, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

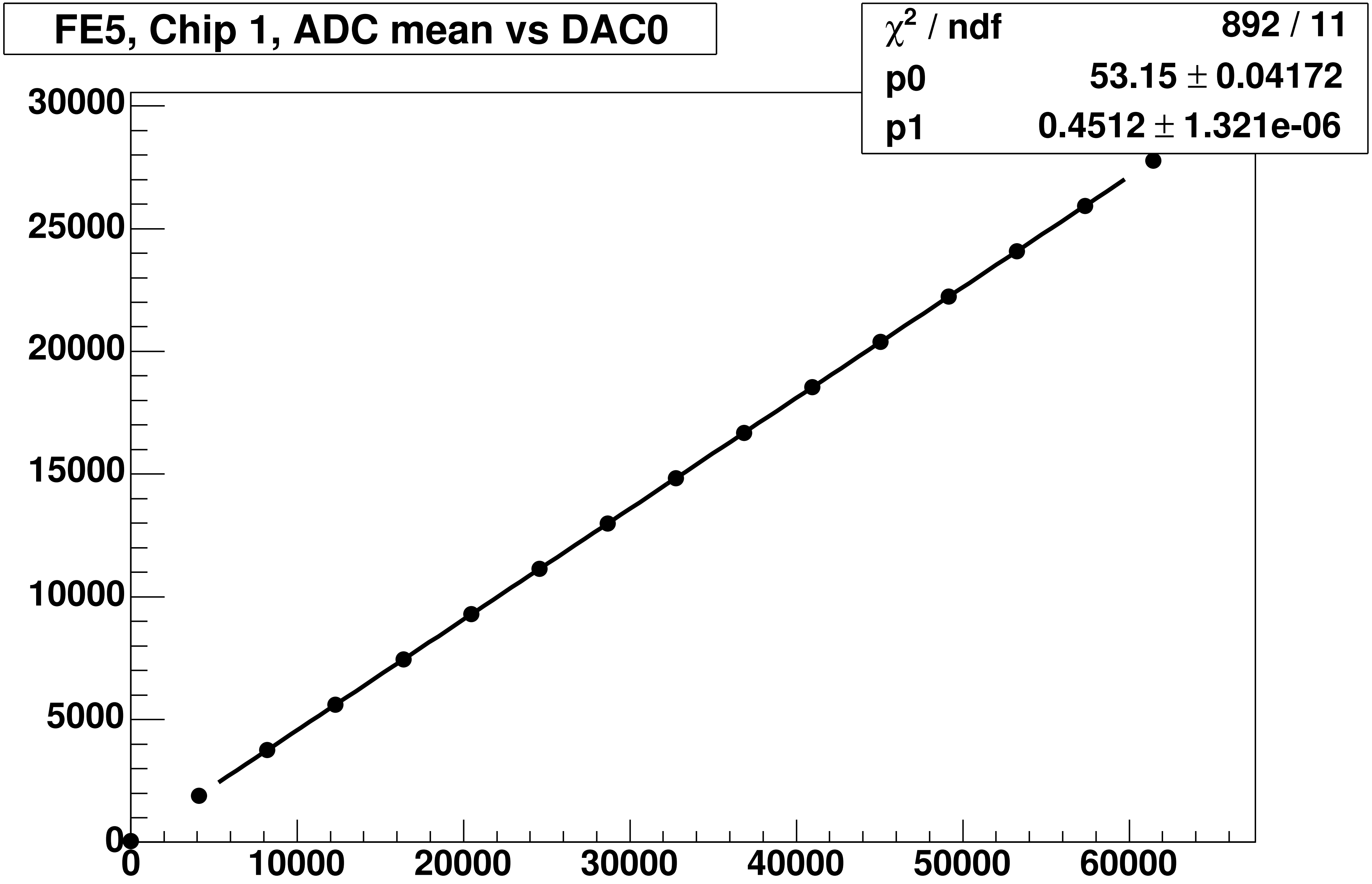


FE5, Chip 0, ADC mean vs DAC1
χ² / ndf 16.36 / 11
p0 52.49 ± 0.04011
p1 2.132e-06 ± 1.113e-06
52.4
52.5
52.6
52.7
52.8
0
10000
20000
30000
40000
50000
60000

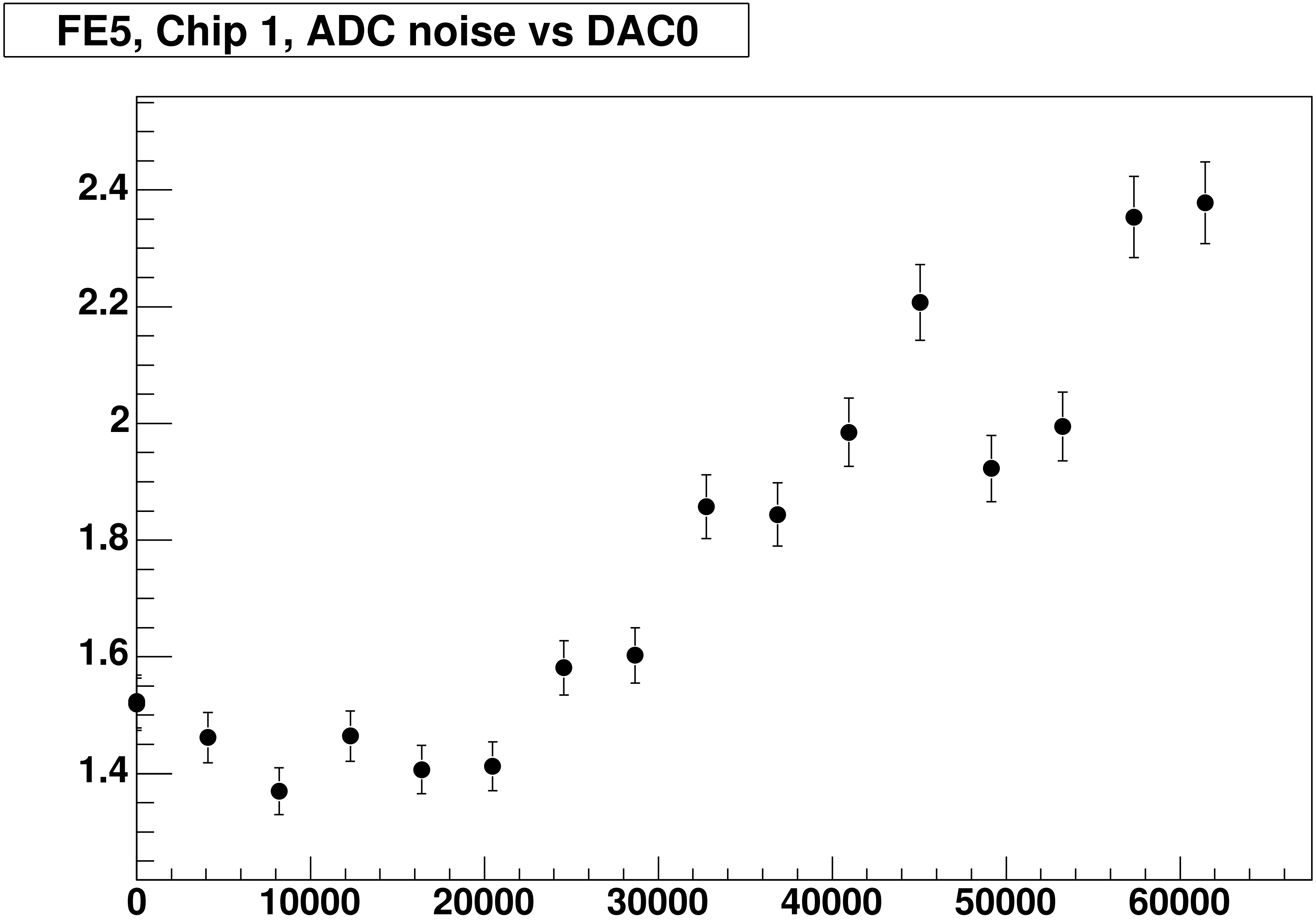

FE5, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000



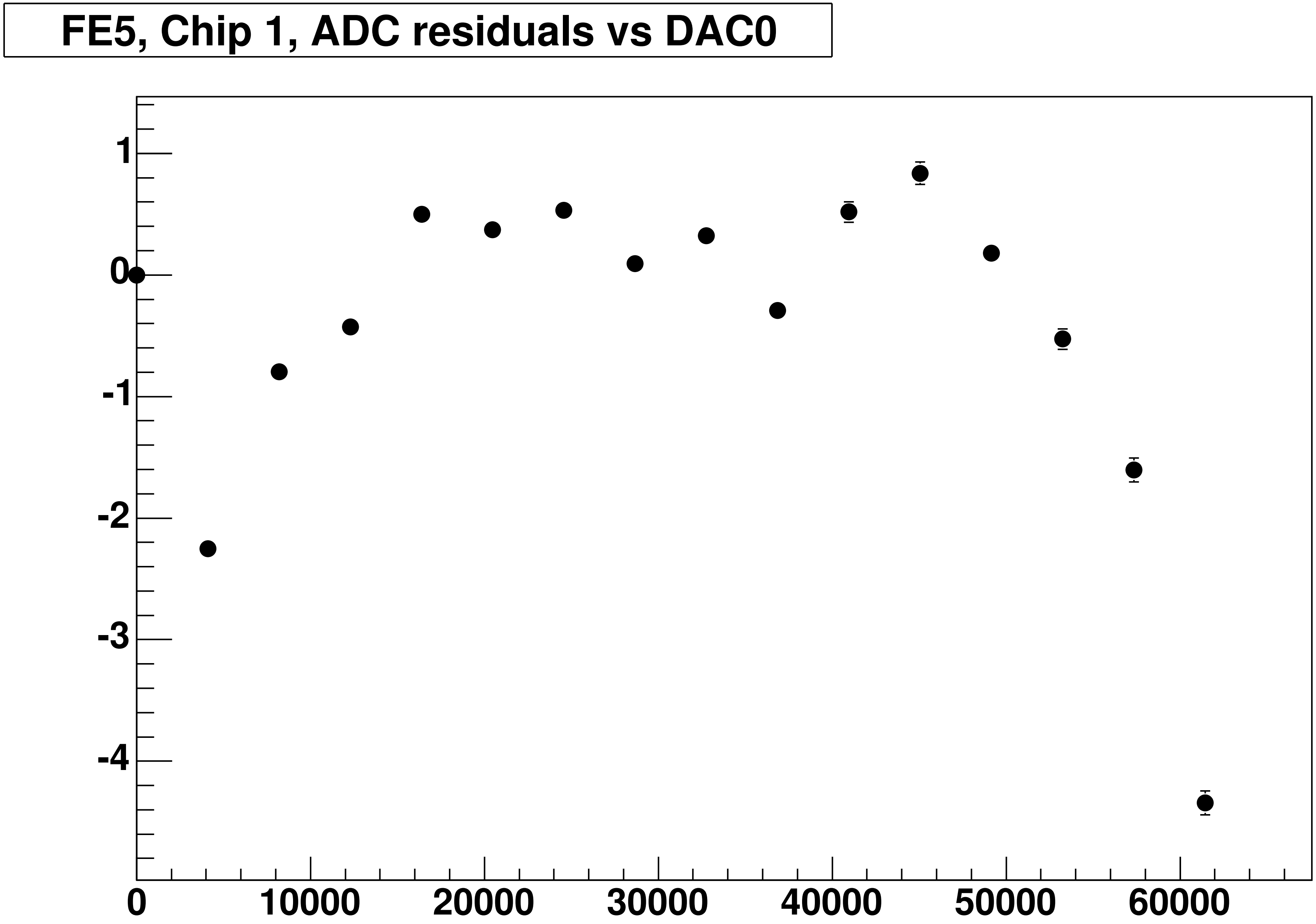
FE5, Chip 0, ADC residuals vs DAC1
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

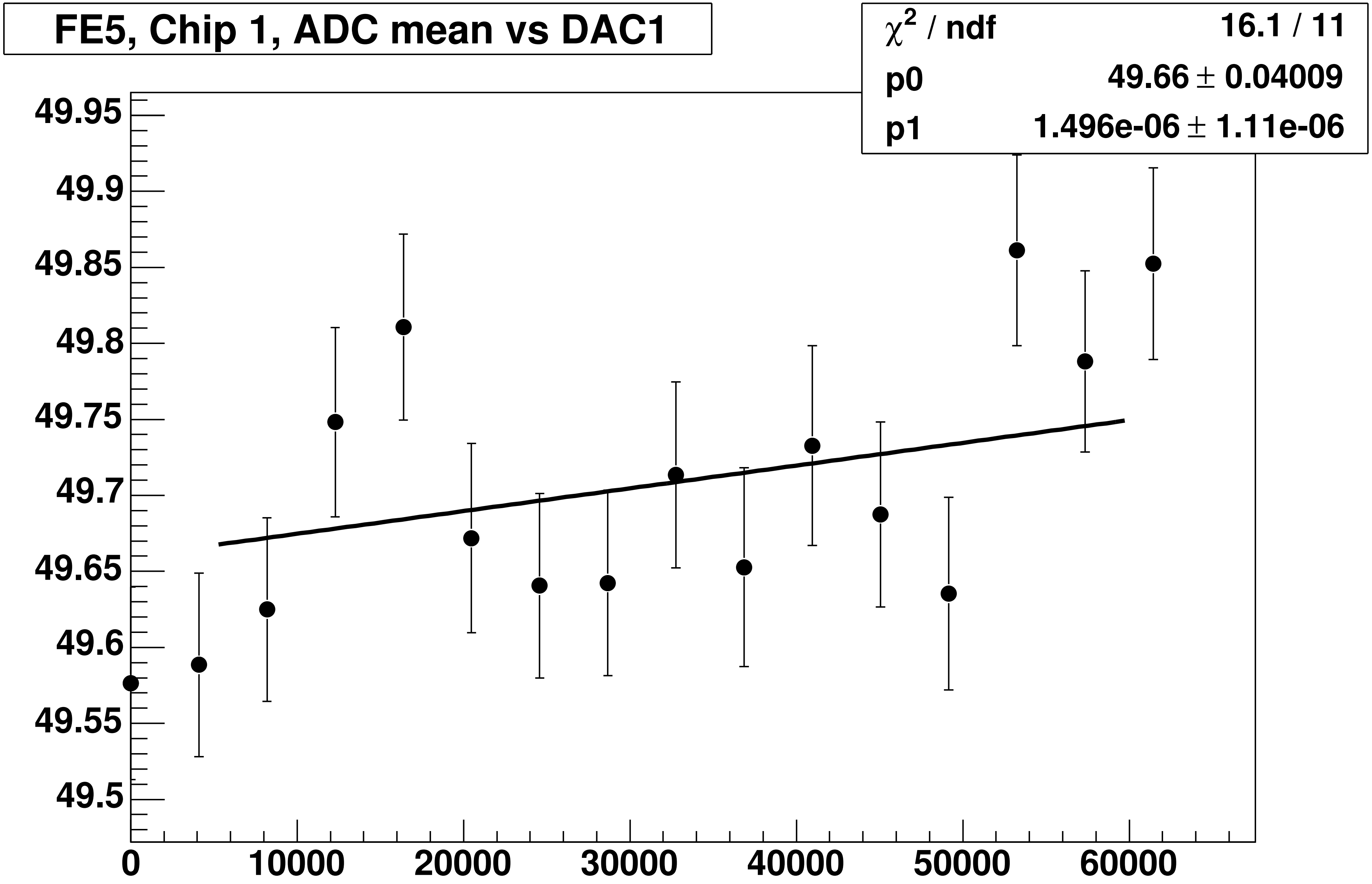


FE5, Chip 1, ADC mean vs DAC0
χ2 / ndf 892 / 11
p0 53.15 ± 0.04172
p1 0.4512 ± 1.321e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



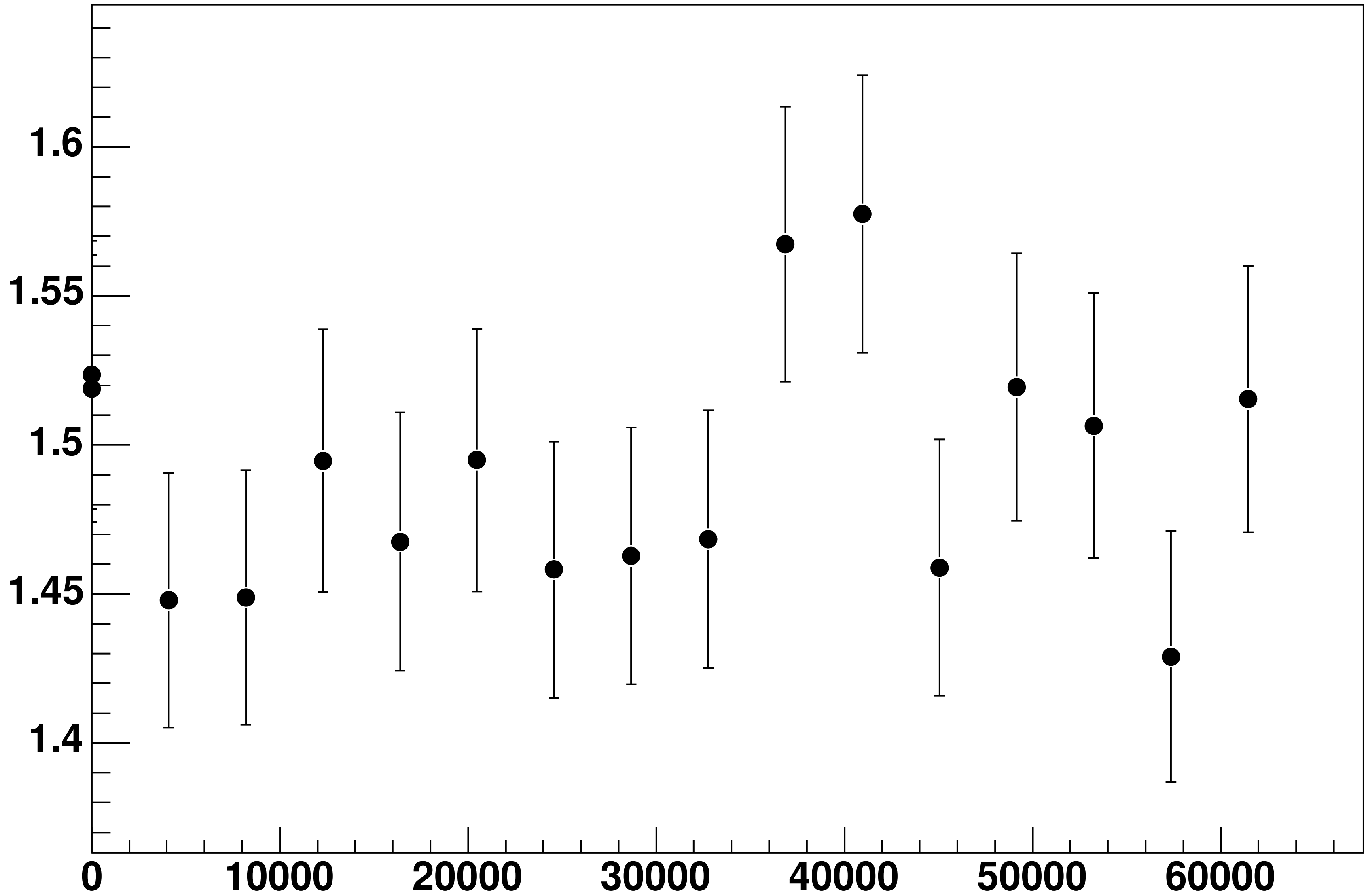
FE5, Chip 1, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

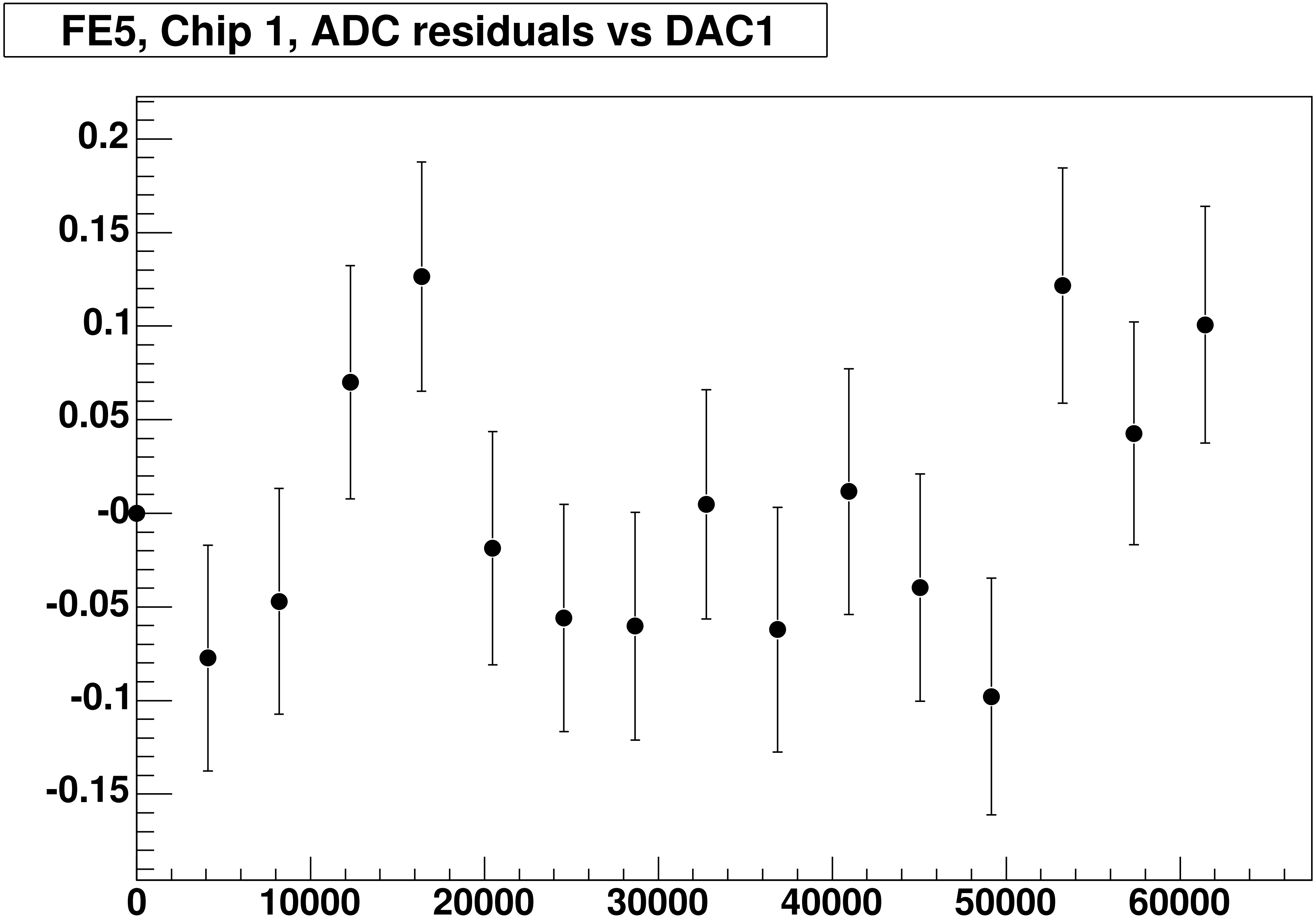

FE5, Chip 1, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
0
10000
20000
30000
40000
50000
60000



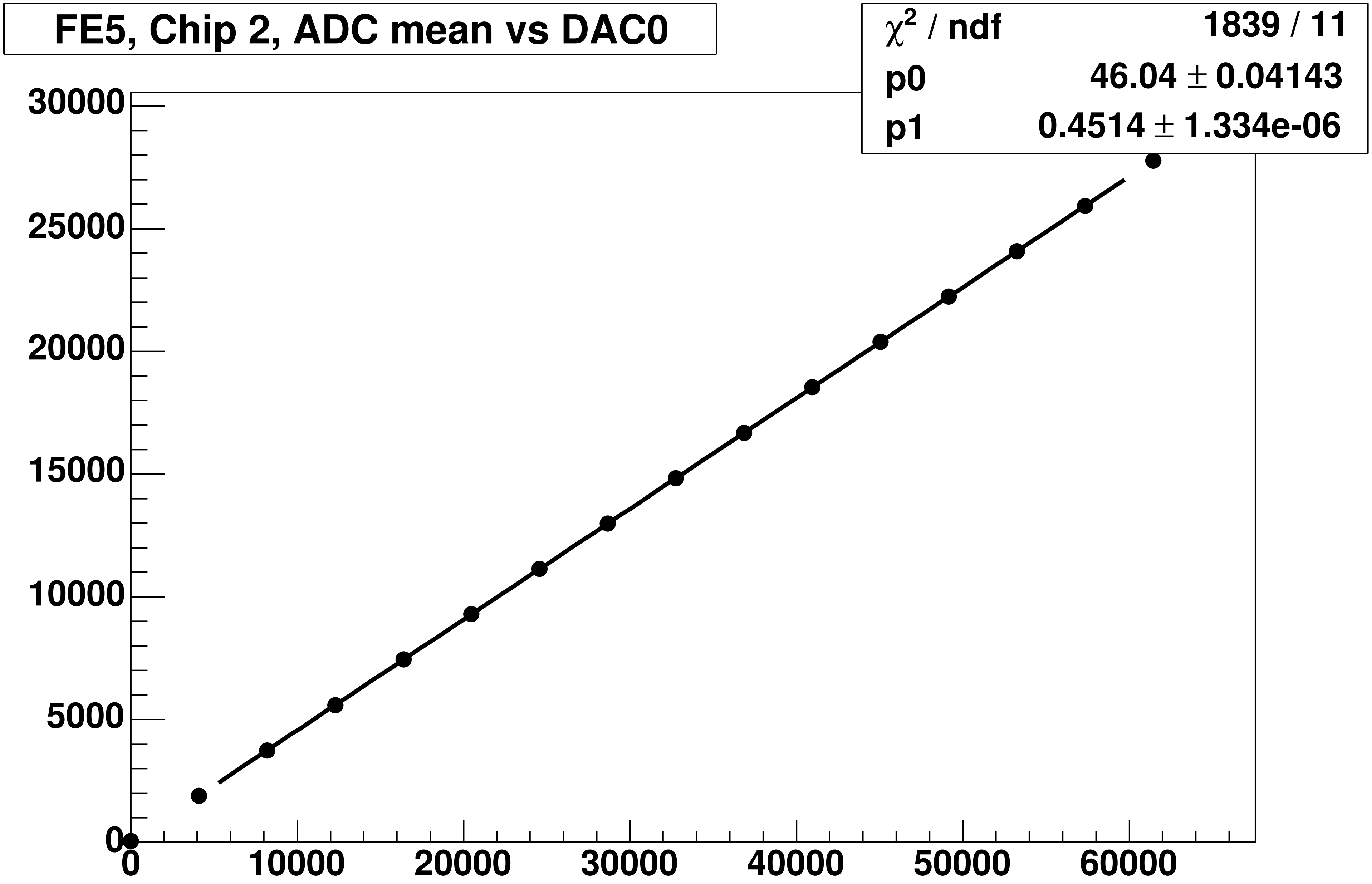
FE5, Chip 1, ADC mean vs DAC1
χ^2 / ndf 16.1 / 11
p0 49.66 ± 0.04009
p1 1.496e-06 ± 1.11e-06
49.95
49.9
49.85
49.8
49.75
49.7
49.65
49.6
49.55
49.5
0
10000
20000
30000
40000
50000
60000

FE5, Chip 1, ADC noise vs DAC1

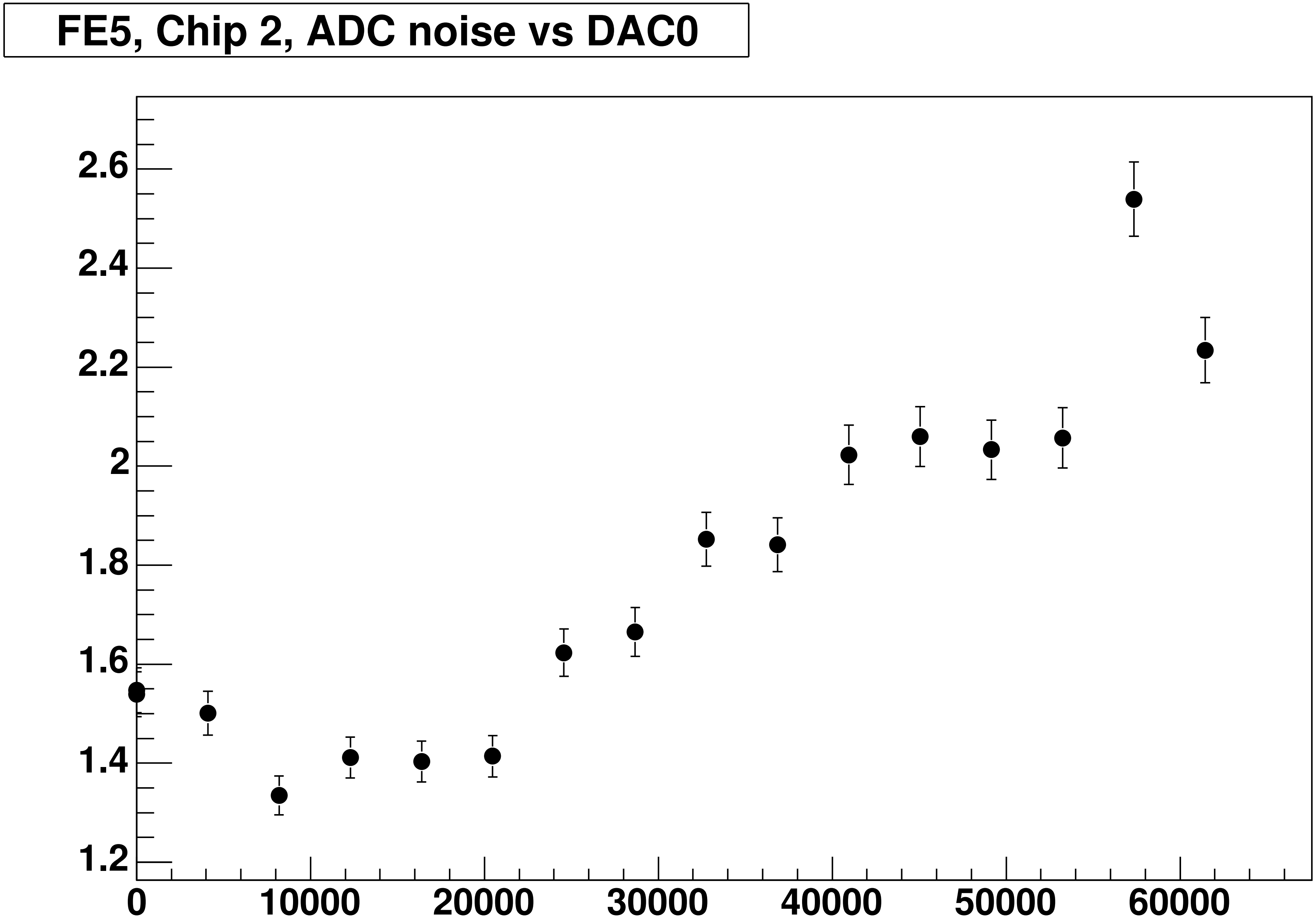


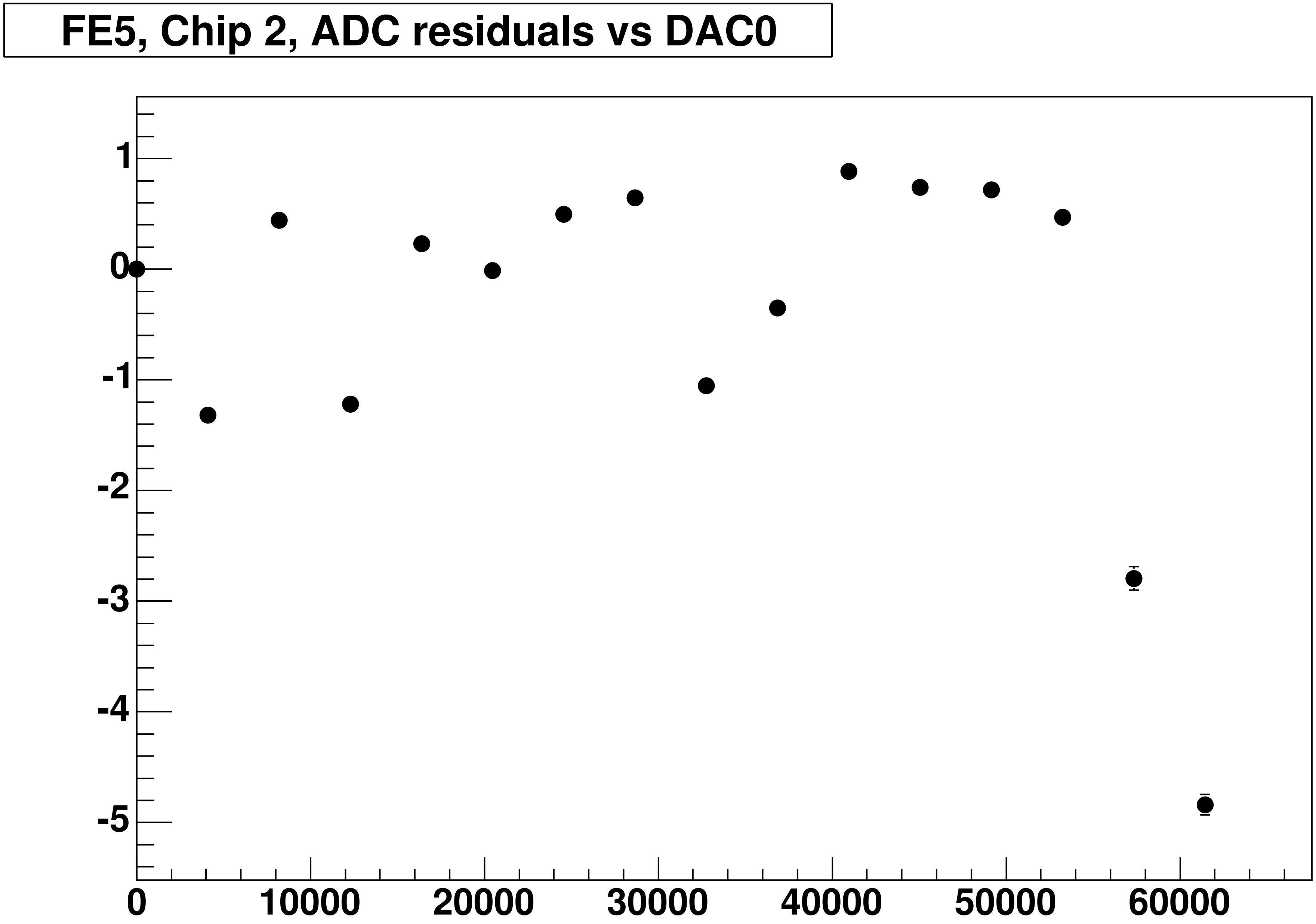


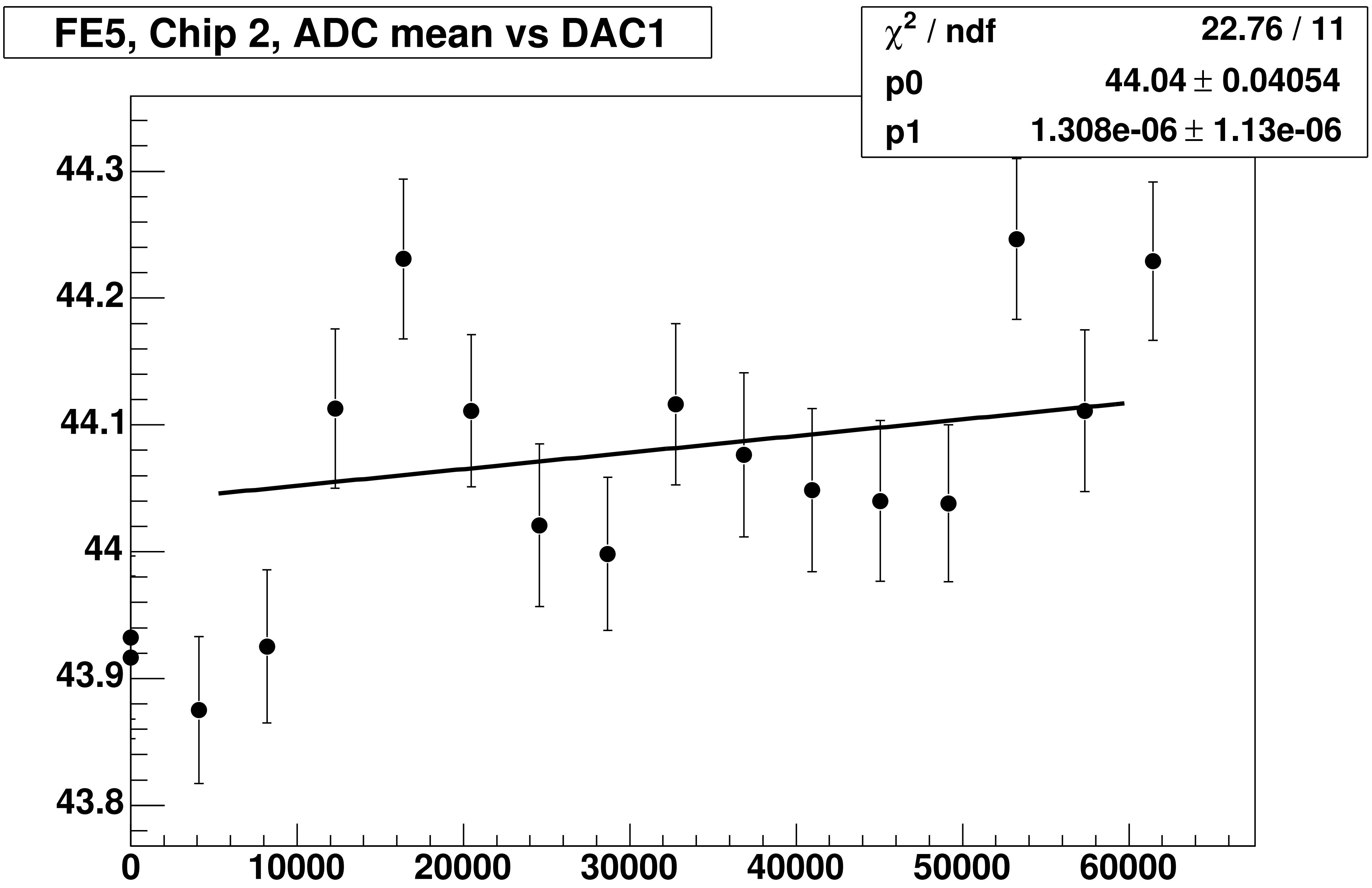
FE5, Chip 1, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

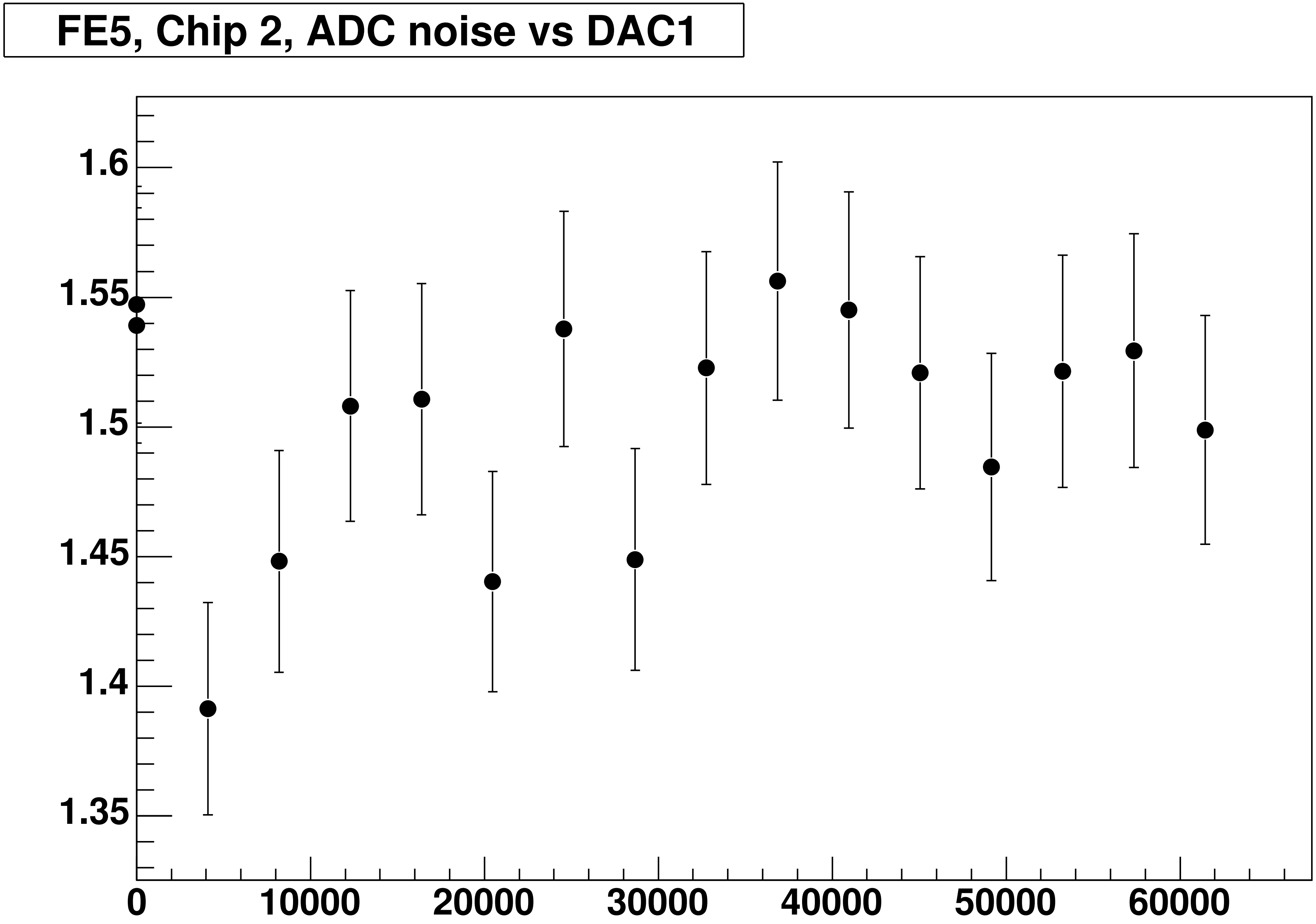


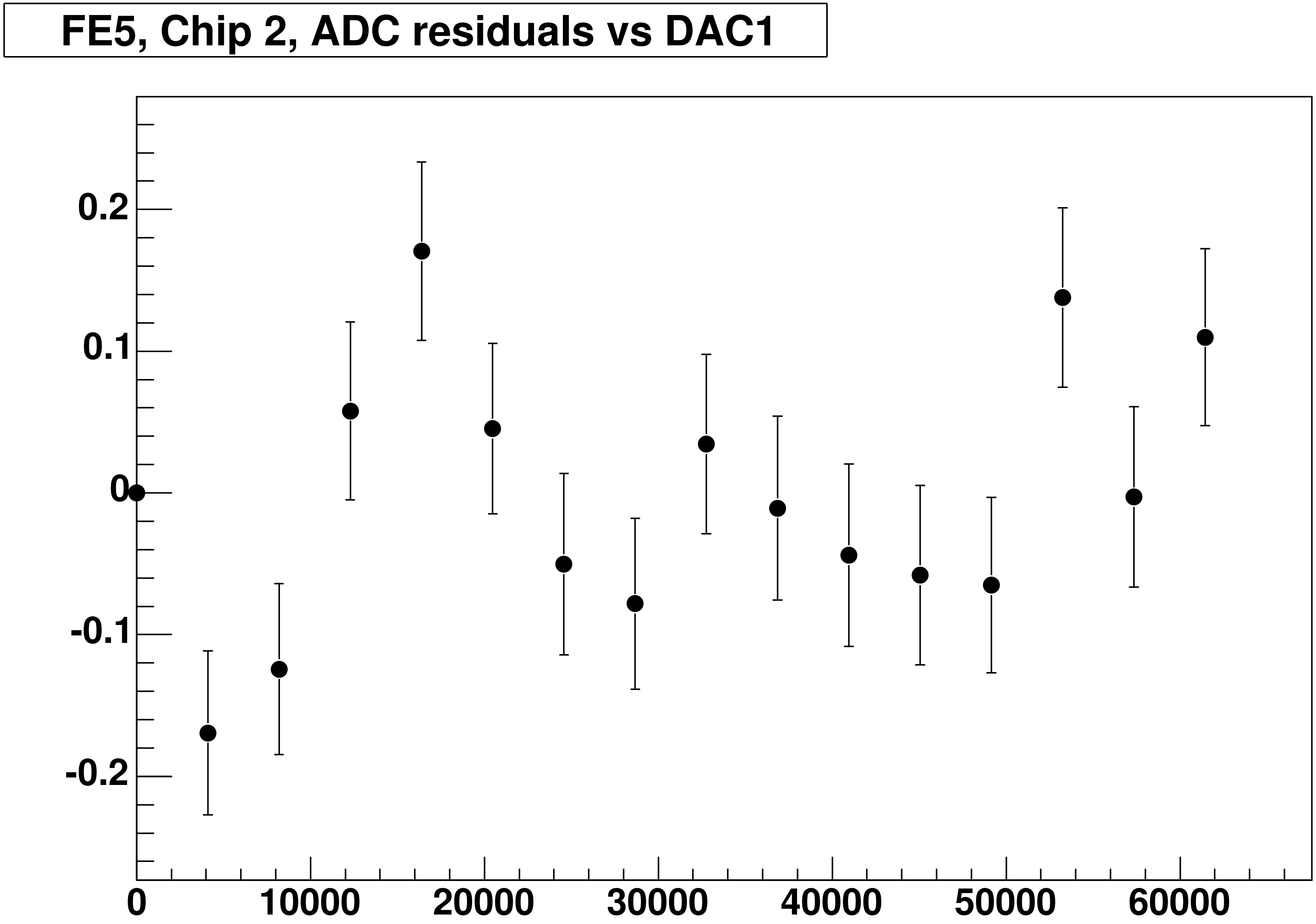
FE5, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1839 / 11
p0 46.04 ± 0.04143
p1 0.4514 ± 1.334e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

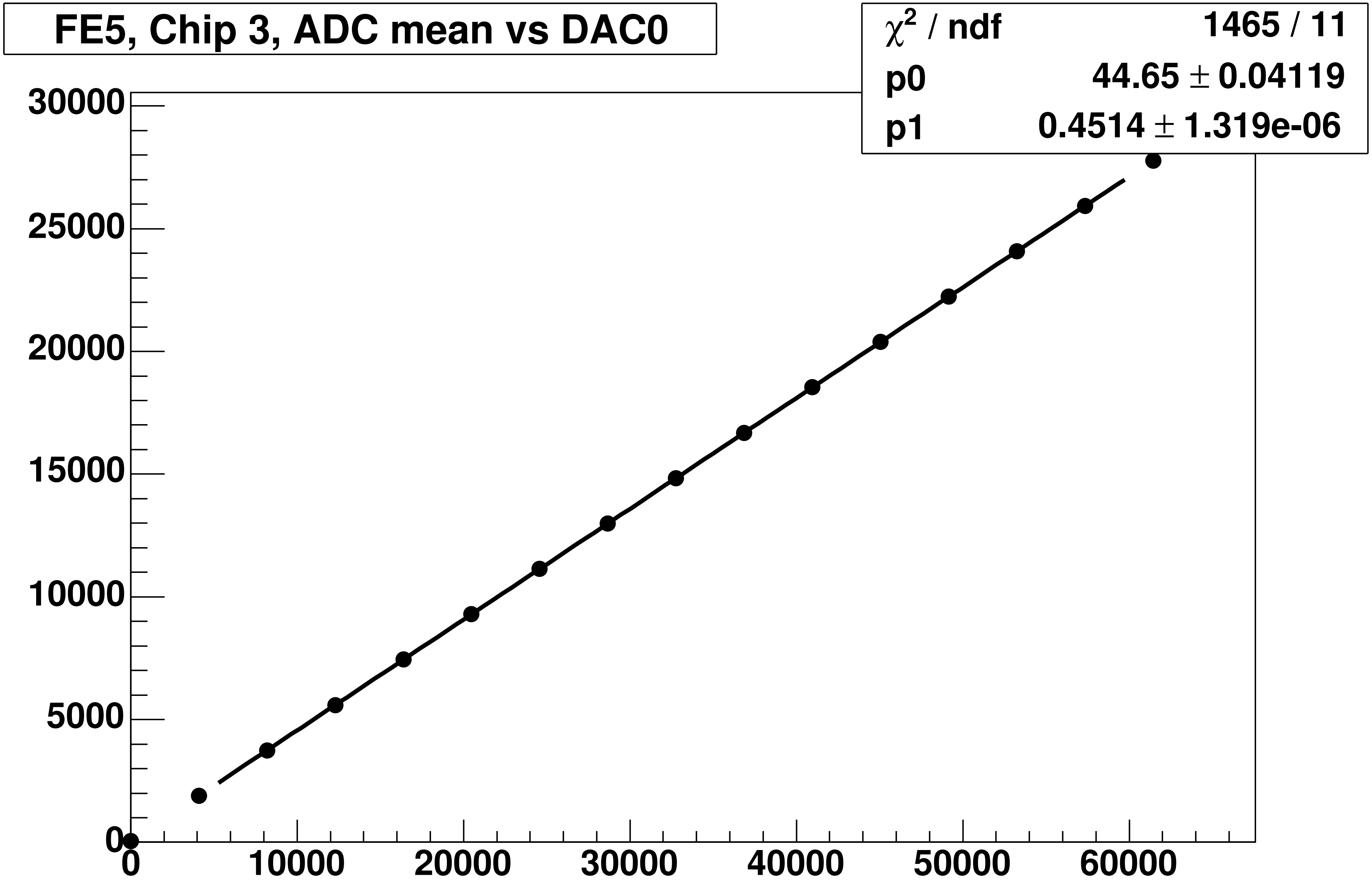

FE5, Chip 2, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

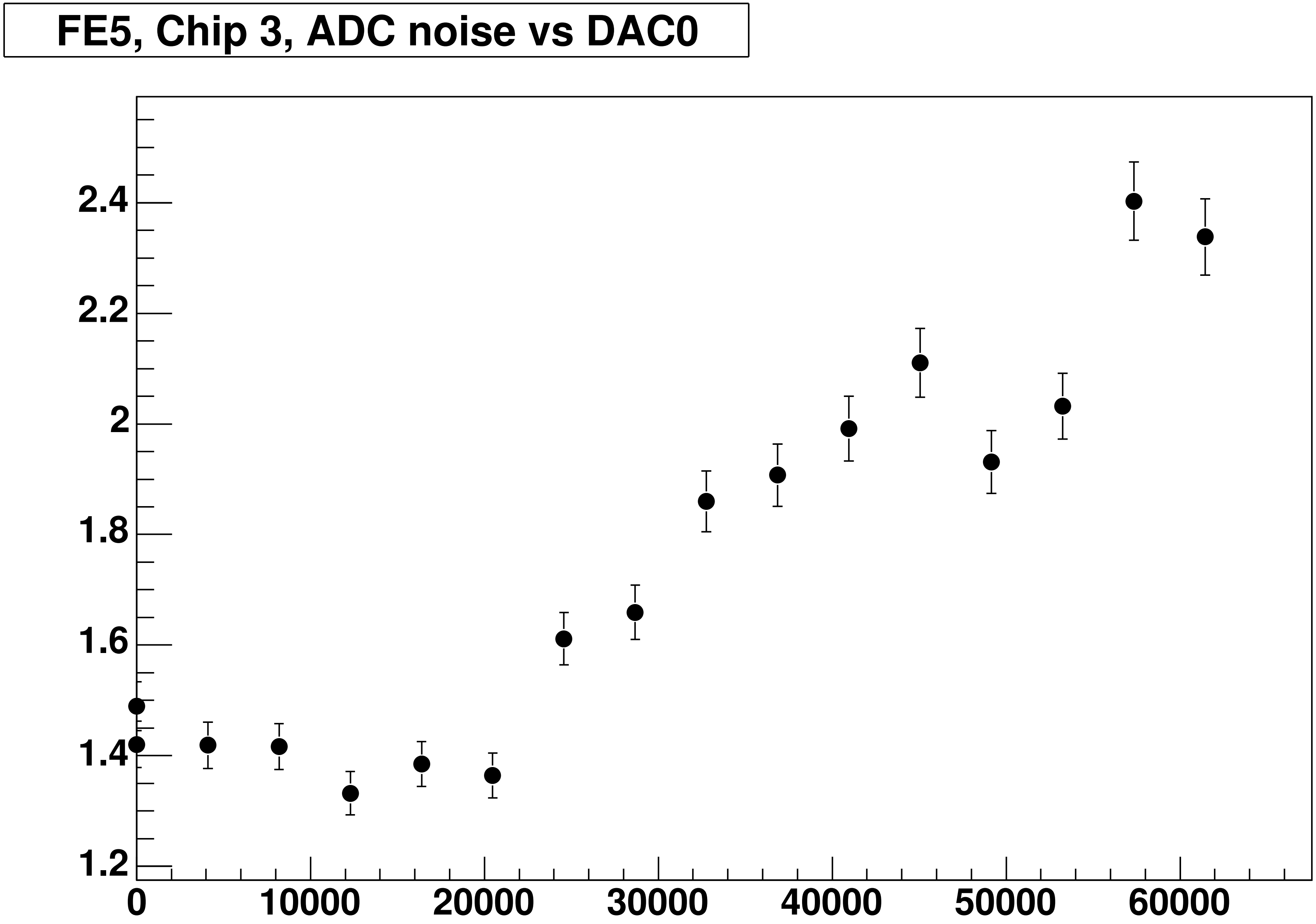

FE5, Chip 2, ADC mean vs DAC1
χ² / ndf 22.76 / 11
p0 44.04 ± 0.04054
p1 1.308e-06 ± 1.13e-06
44.3
44.2
44.1
44
43.9
43.8
0
10000
20000
30000
40000
50000
60000

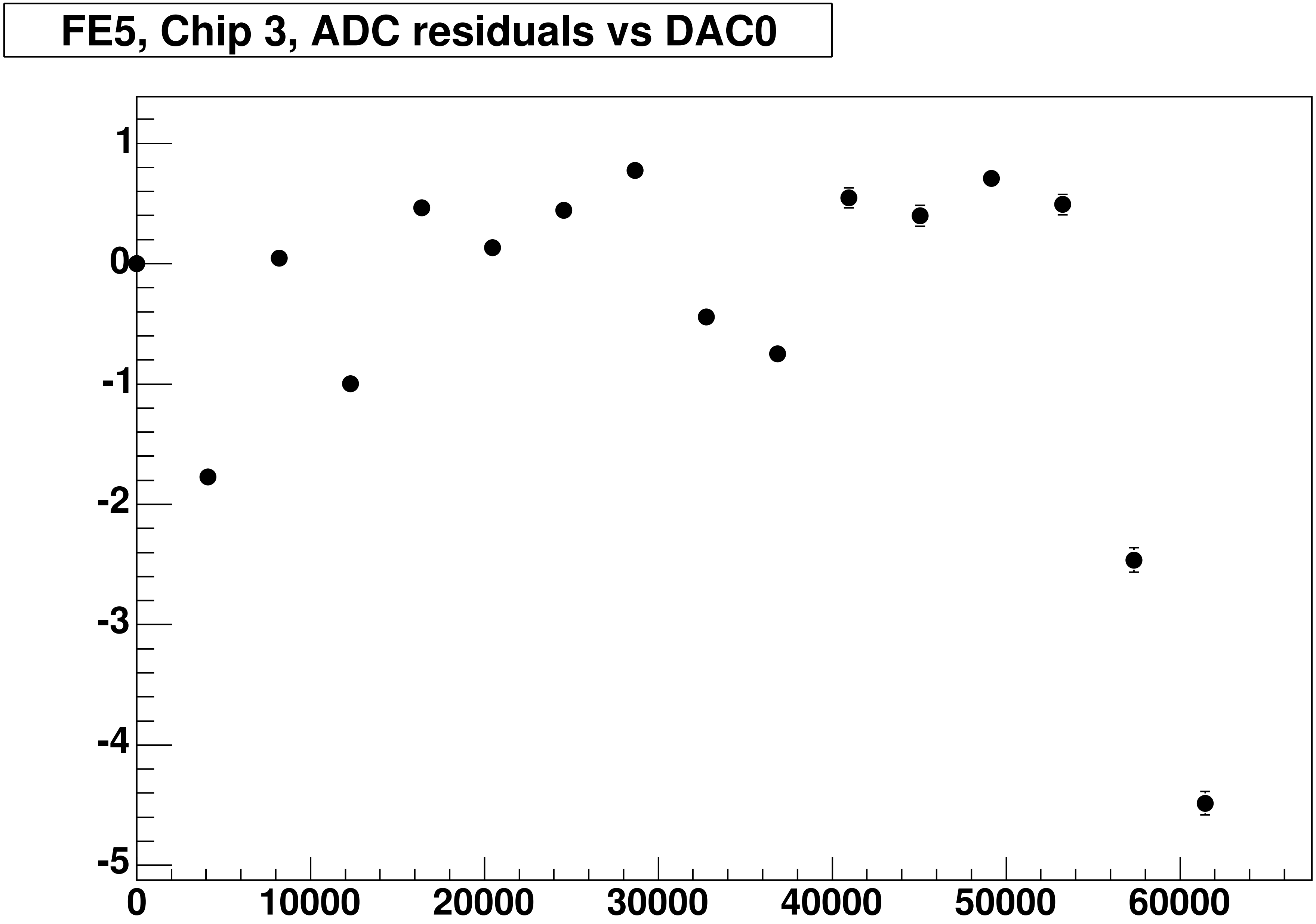

FE5, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

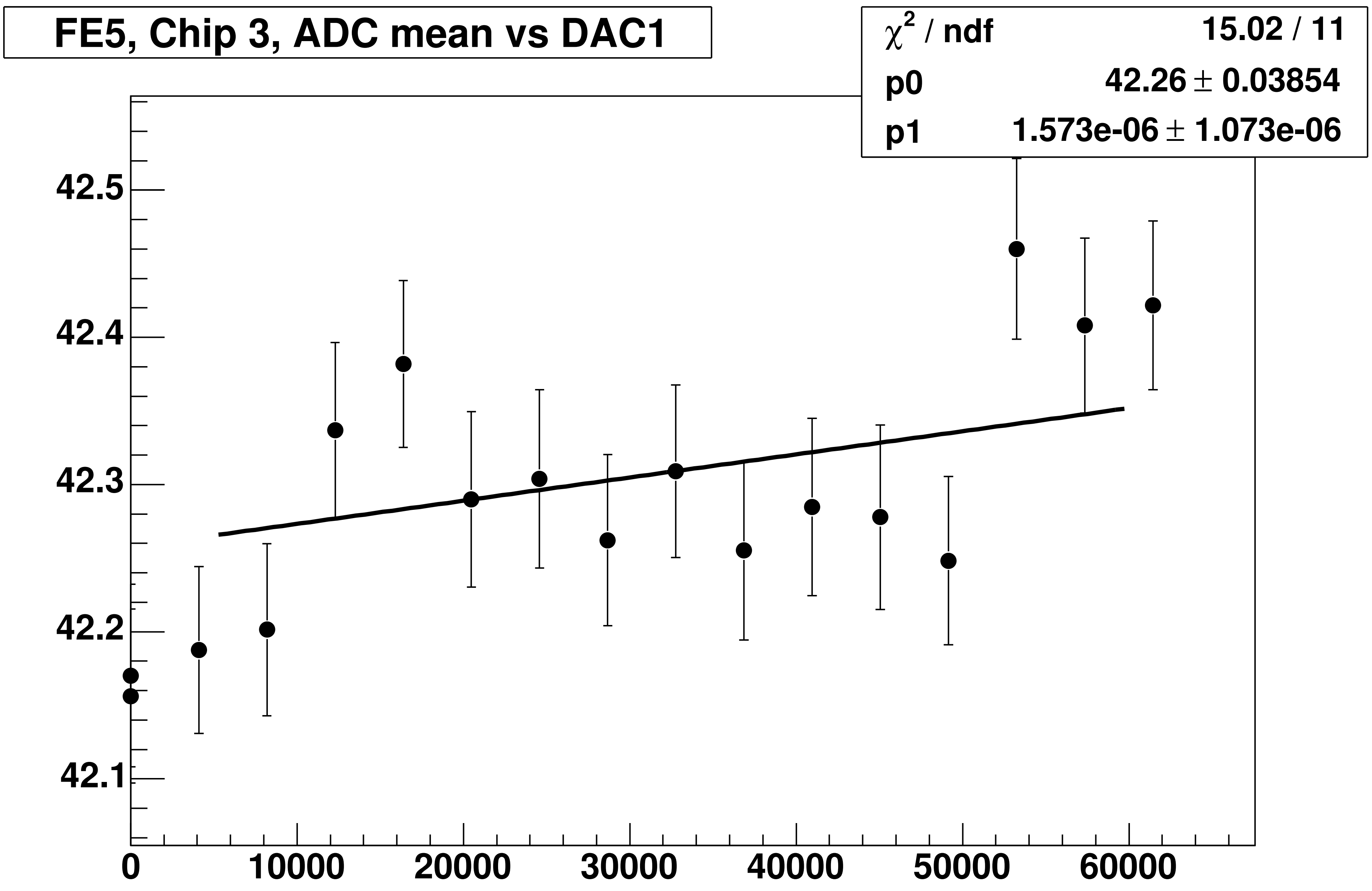

FE5, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000



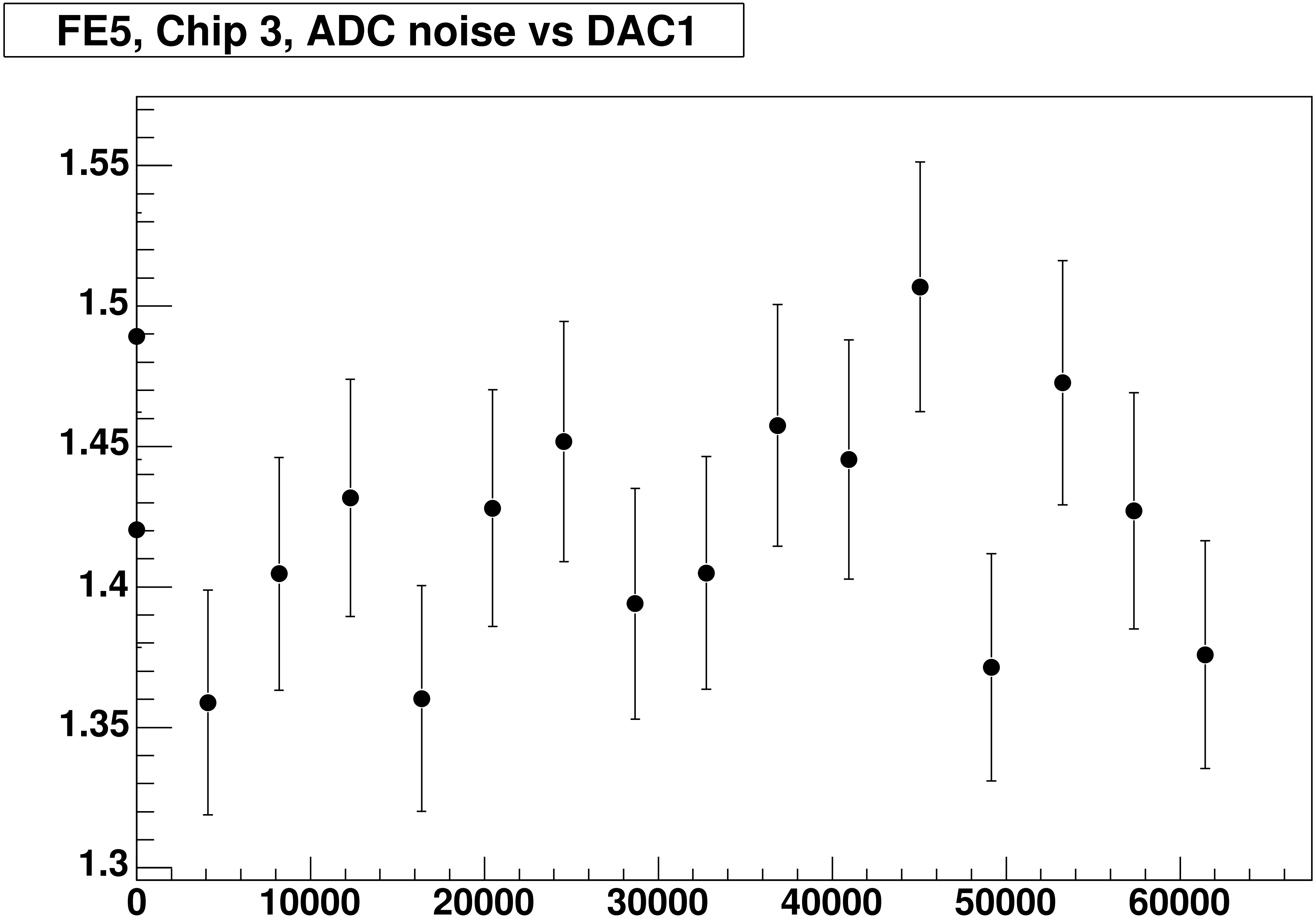
FE5, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1465 / 11
p0 44.65 ± 0.04119
p1 0.4514 ± 1.319e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

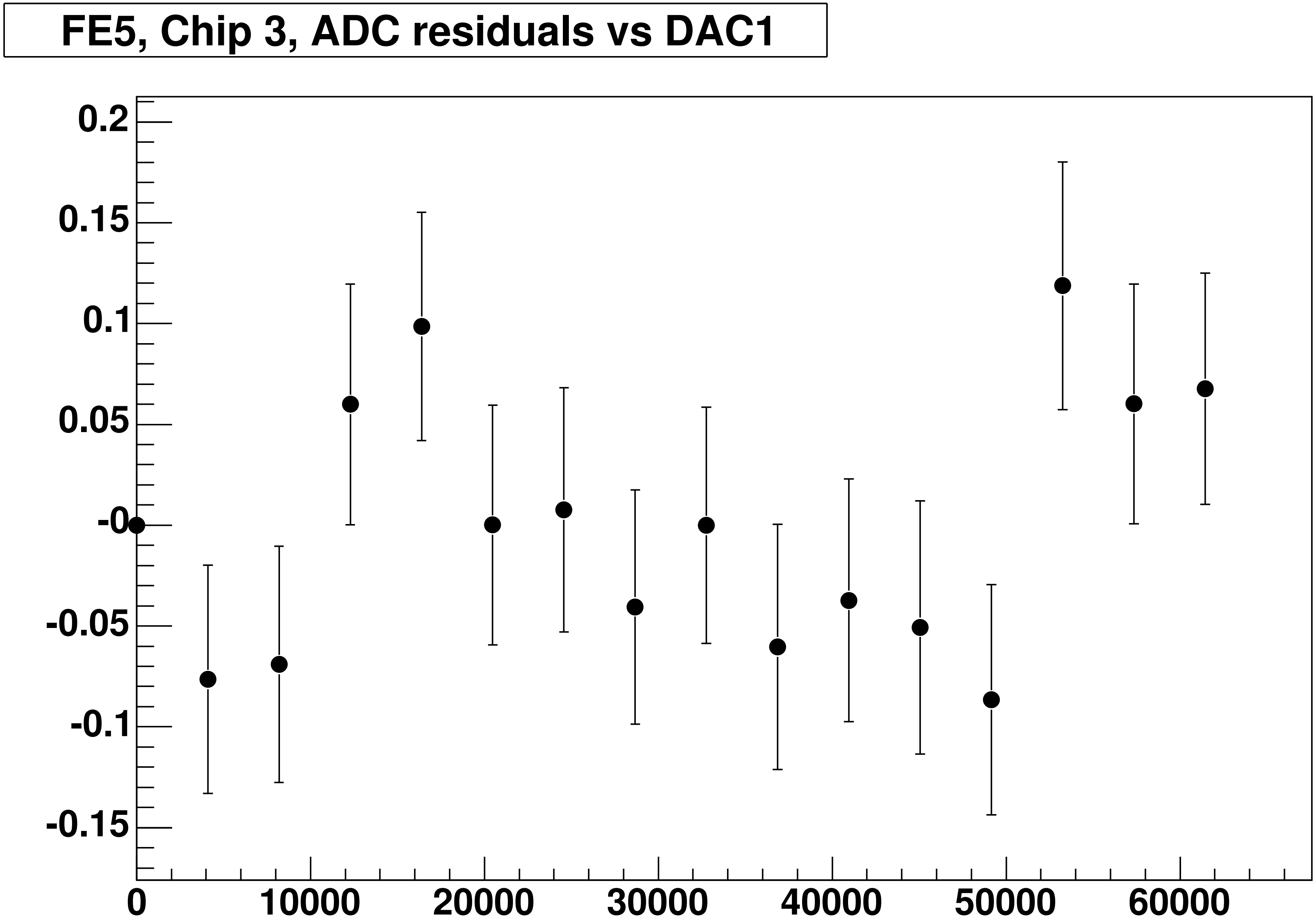

FE5, Chip 3, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

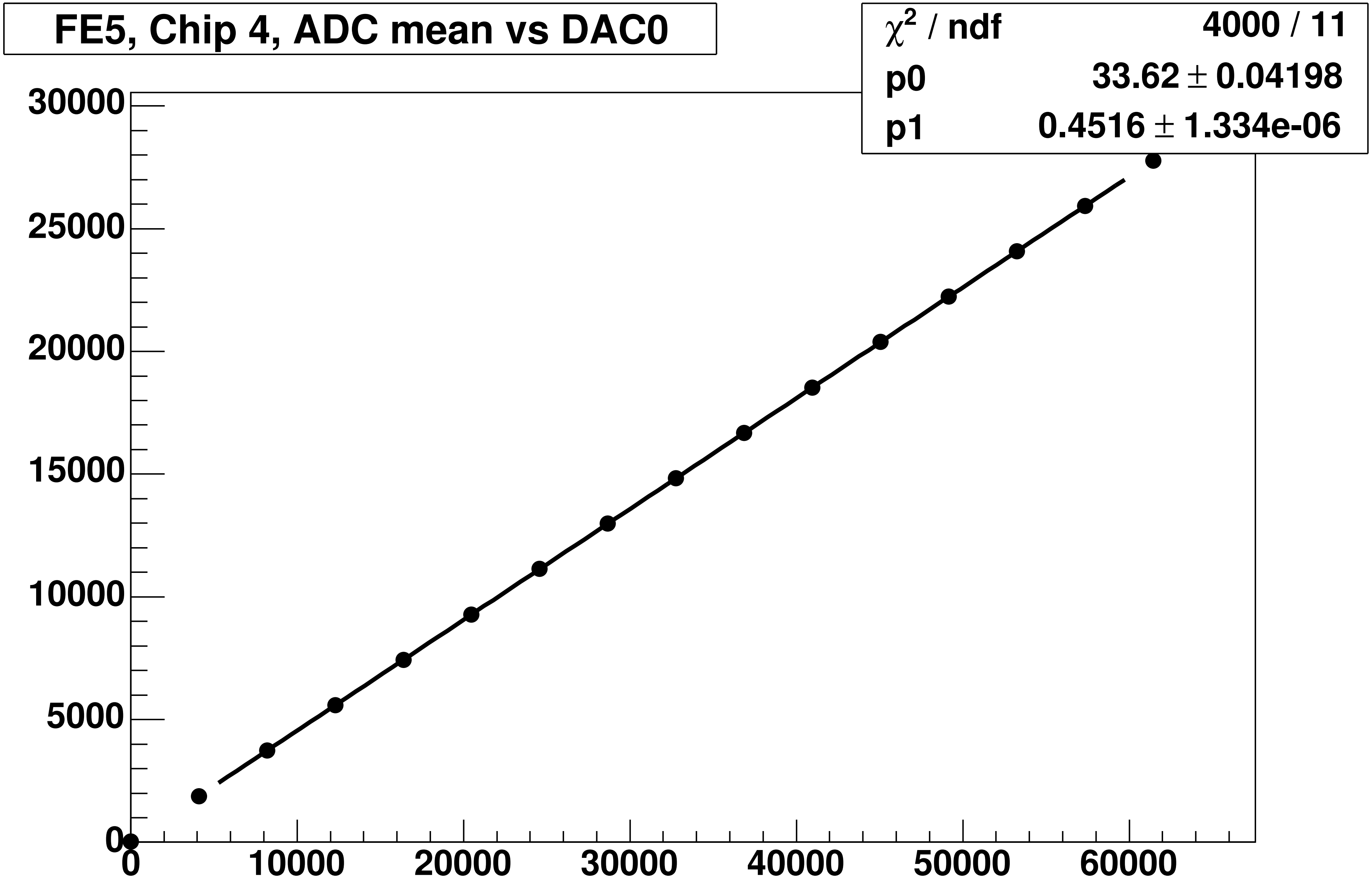


FE5, Chip 3, ADC mean vs DAC1
χ^2 / ndf 15.02 / 11
p0 42.26 ± 0.03854
p1 1.573e-06 ± 1.073e-06
42.5
42.4
42.3
42.2
42.1
0
10000
20000
30000
40000
50000
60000

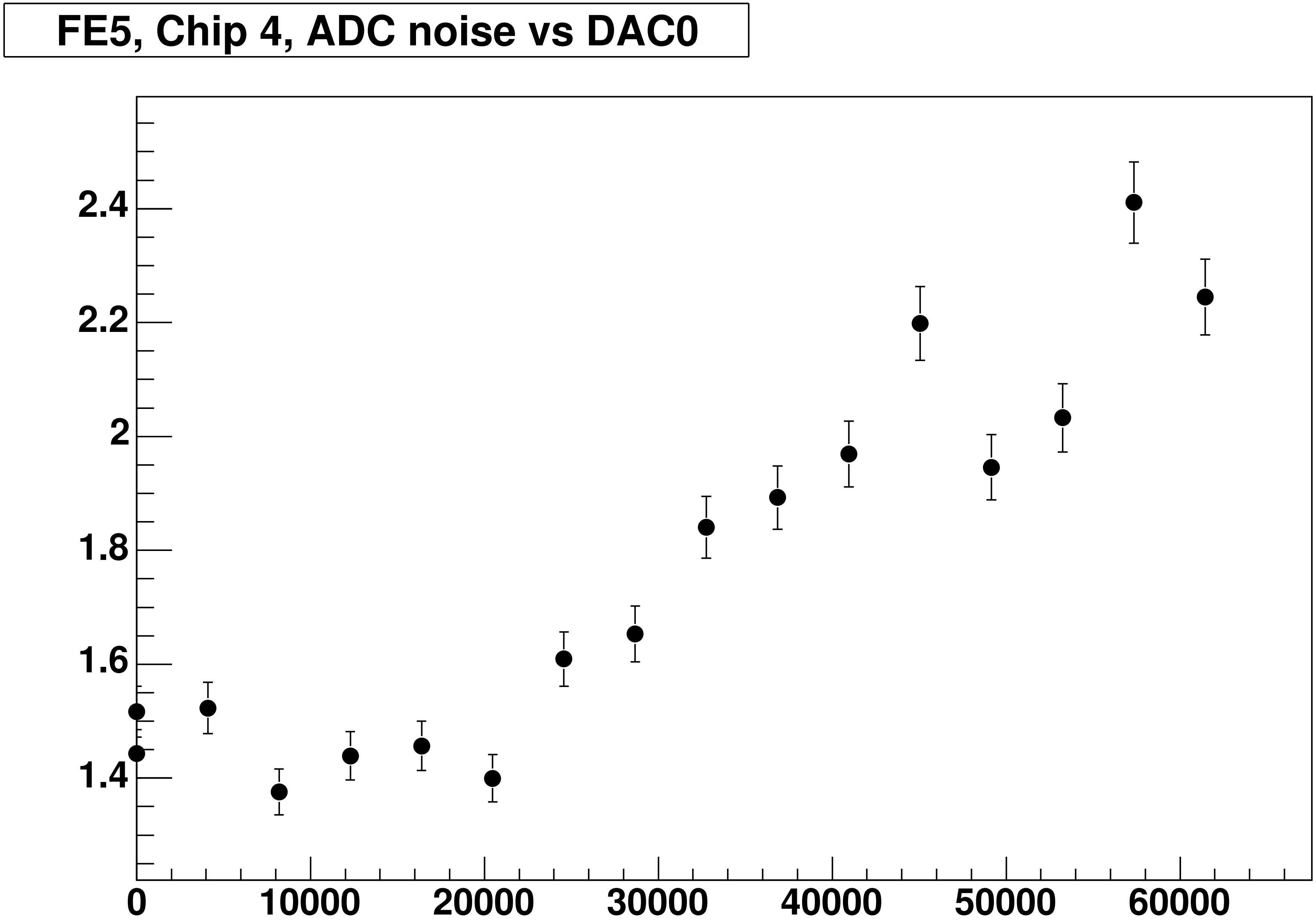

FE5, Chip 3, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

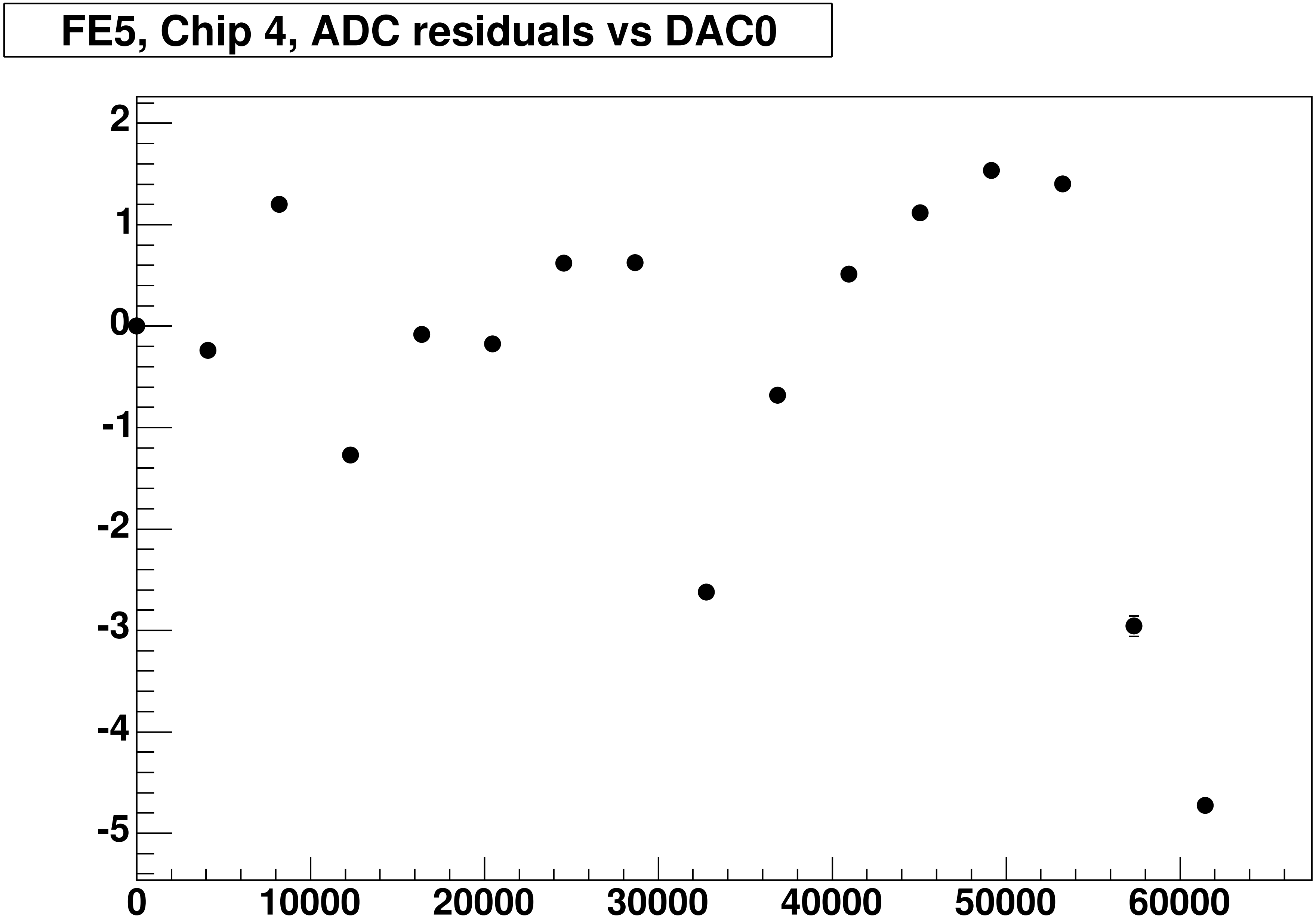


FE5, Chip 3, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

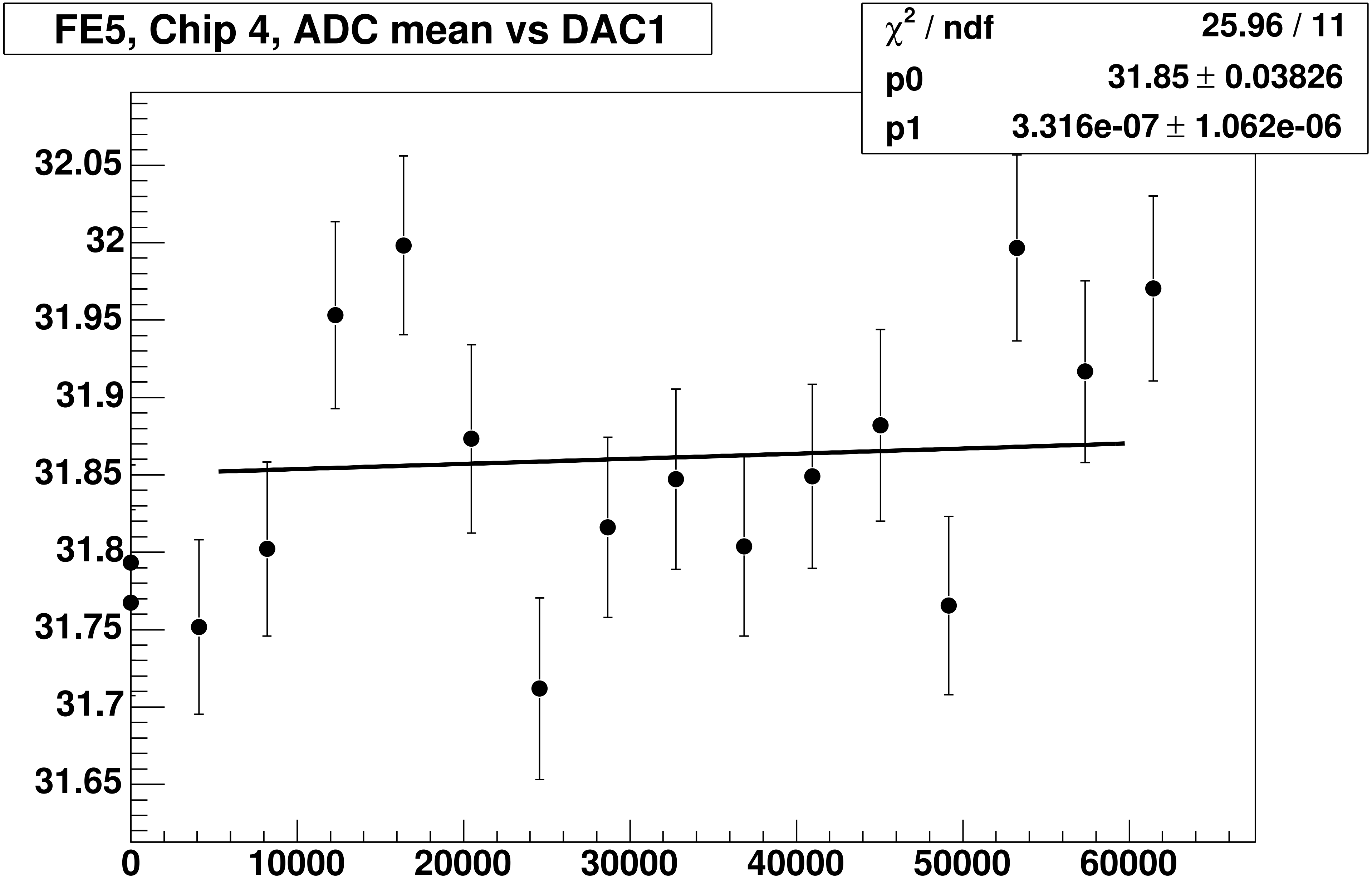


FE5, Chip 4, ADC mean vs DAC0
χ^2 / ndf 4000 / 11
p0 33.62 ± 0.04198
p1 0.4516 ± 1.334e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

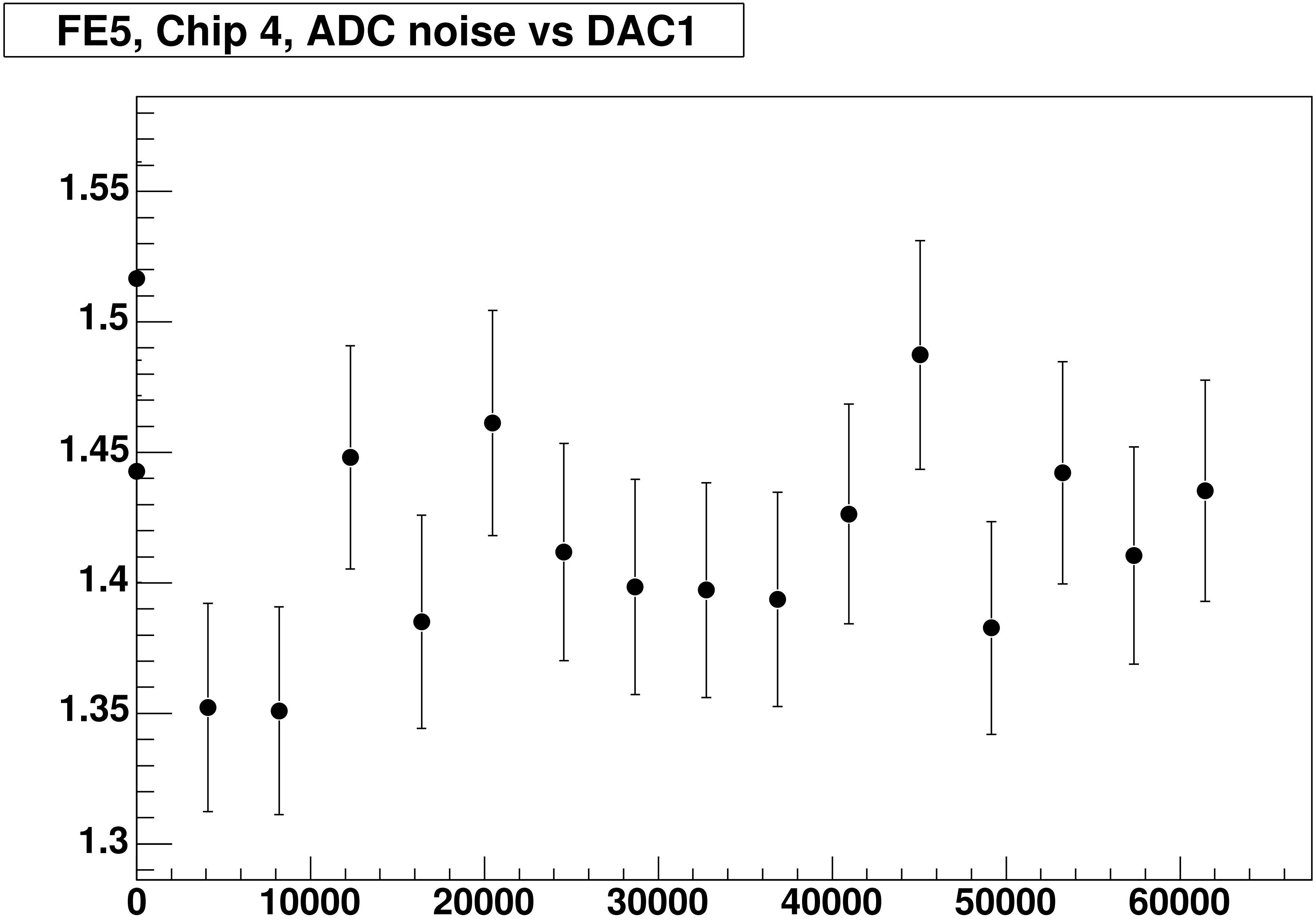

FE5, Chip 4, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



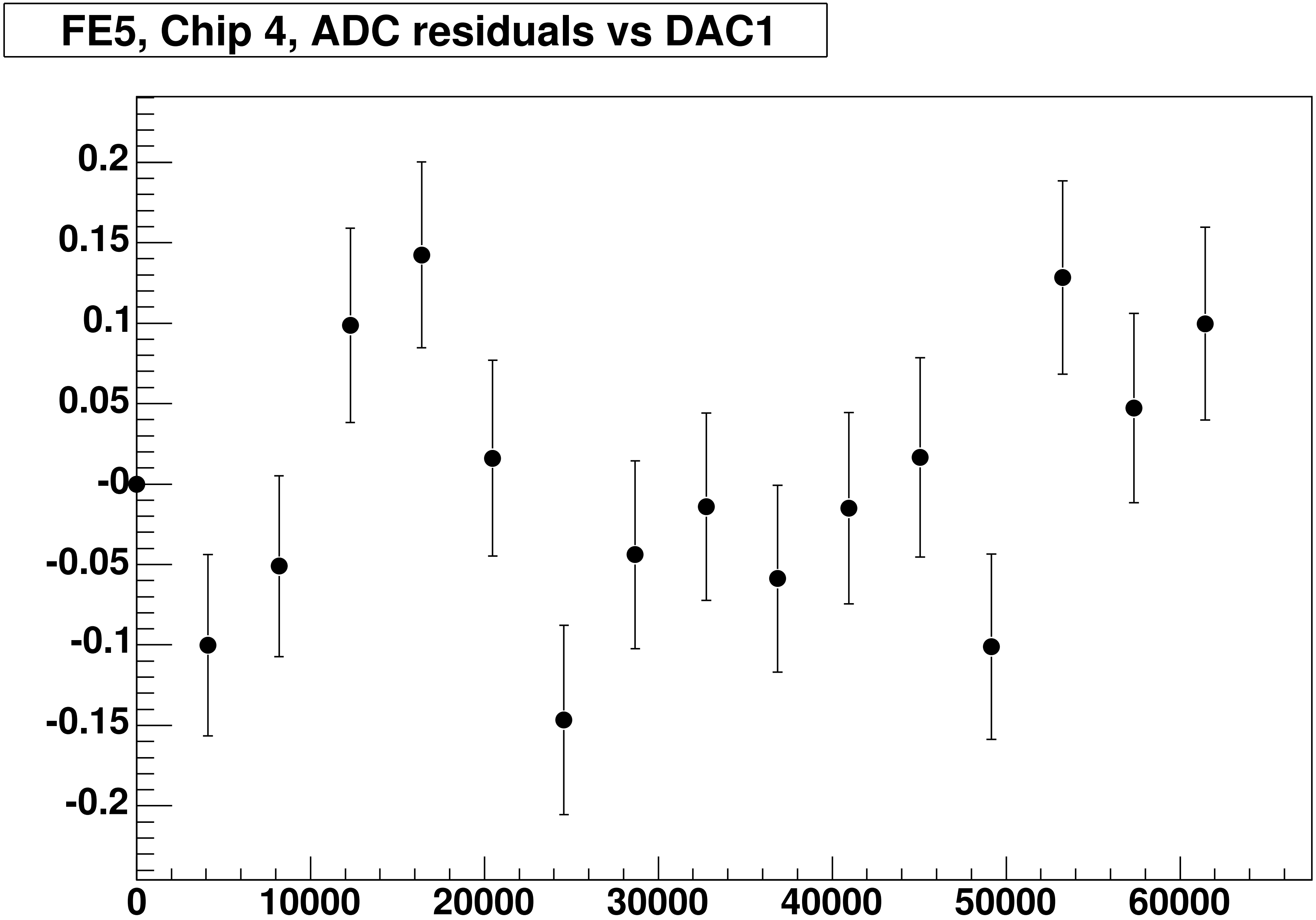
FE5, Chip 4, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



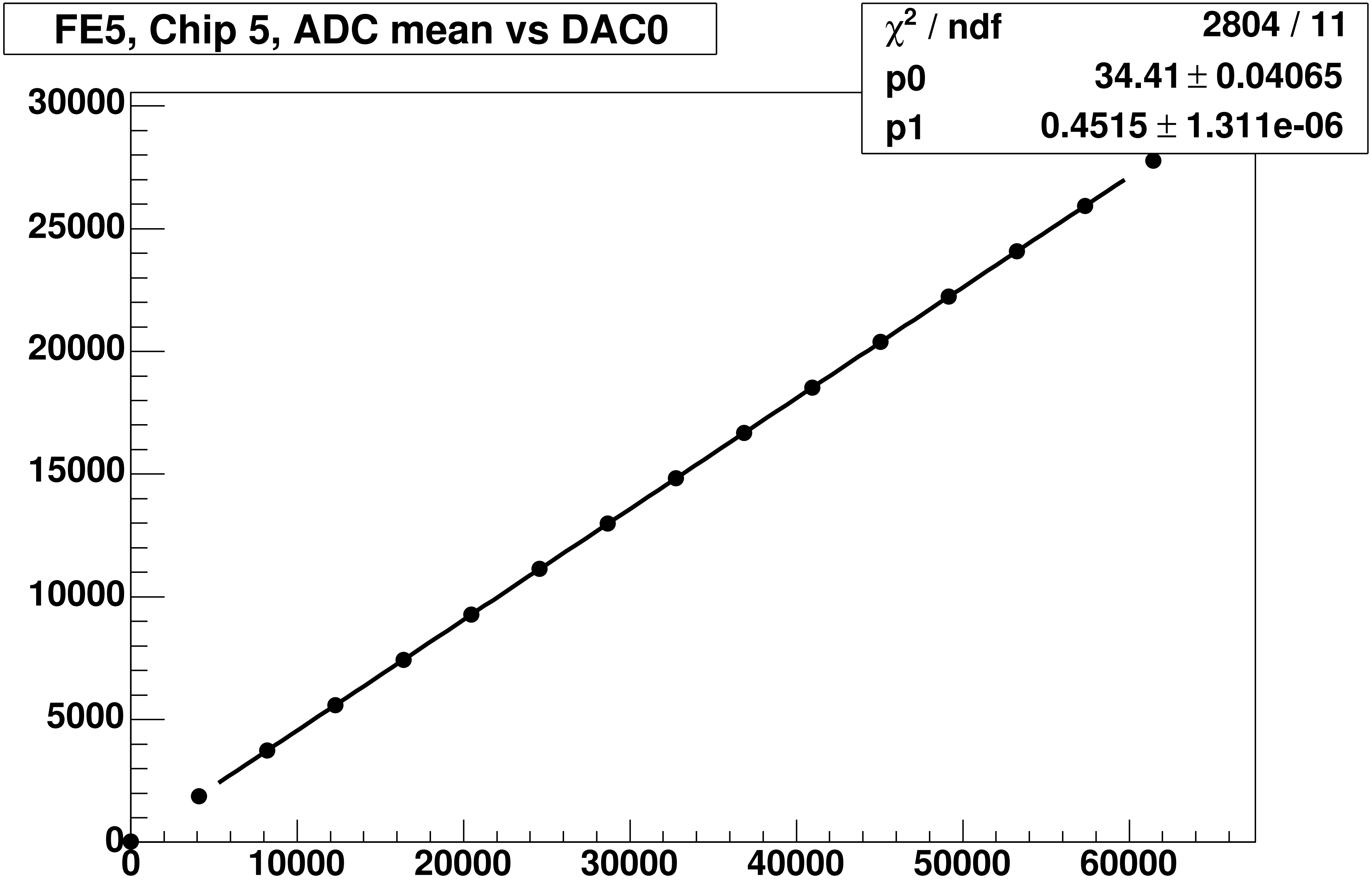
FE5, Chip 4, ADC mean vs DAC1
χ^2 / ndf 25.96 / 11
p0 31.85 ± 0.03826
p1 3.316e-07 ± 1.062e-06
32.05
32
31.95
31.9
31.85
31.8
31.75
31.7
31.65
0
10000
20000
30000
40000
50000
60000



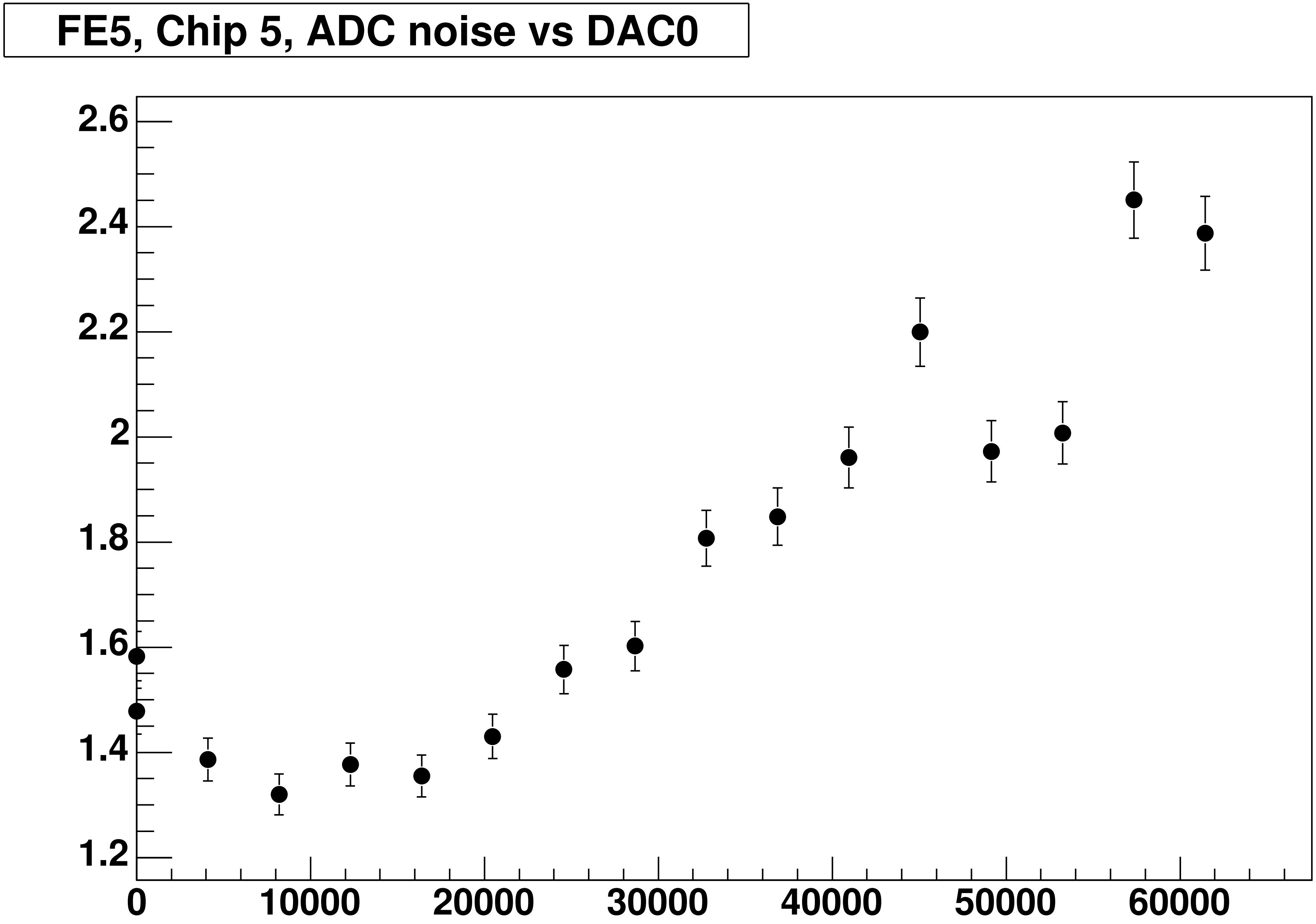
FE5, Chip 4, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

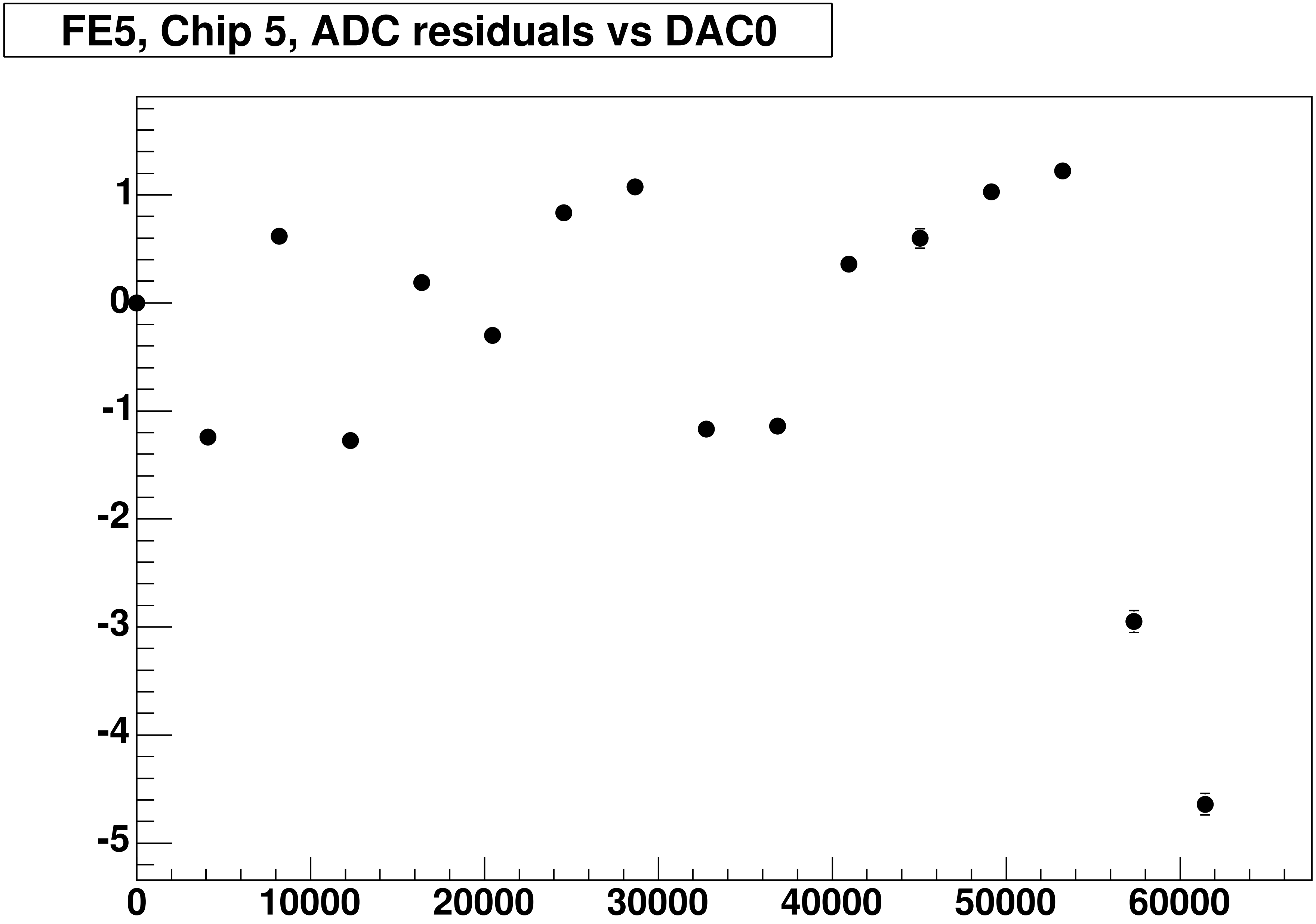


FE5, Chip 4, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000

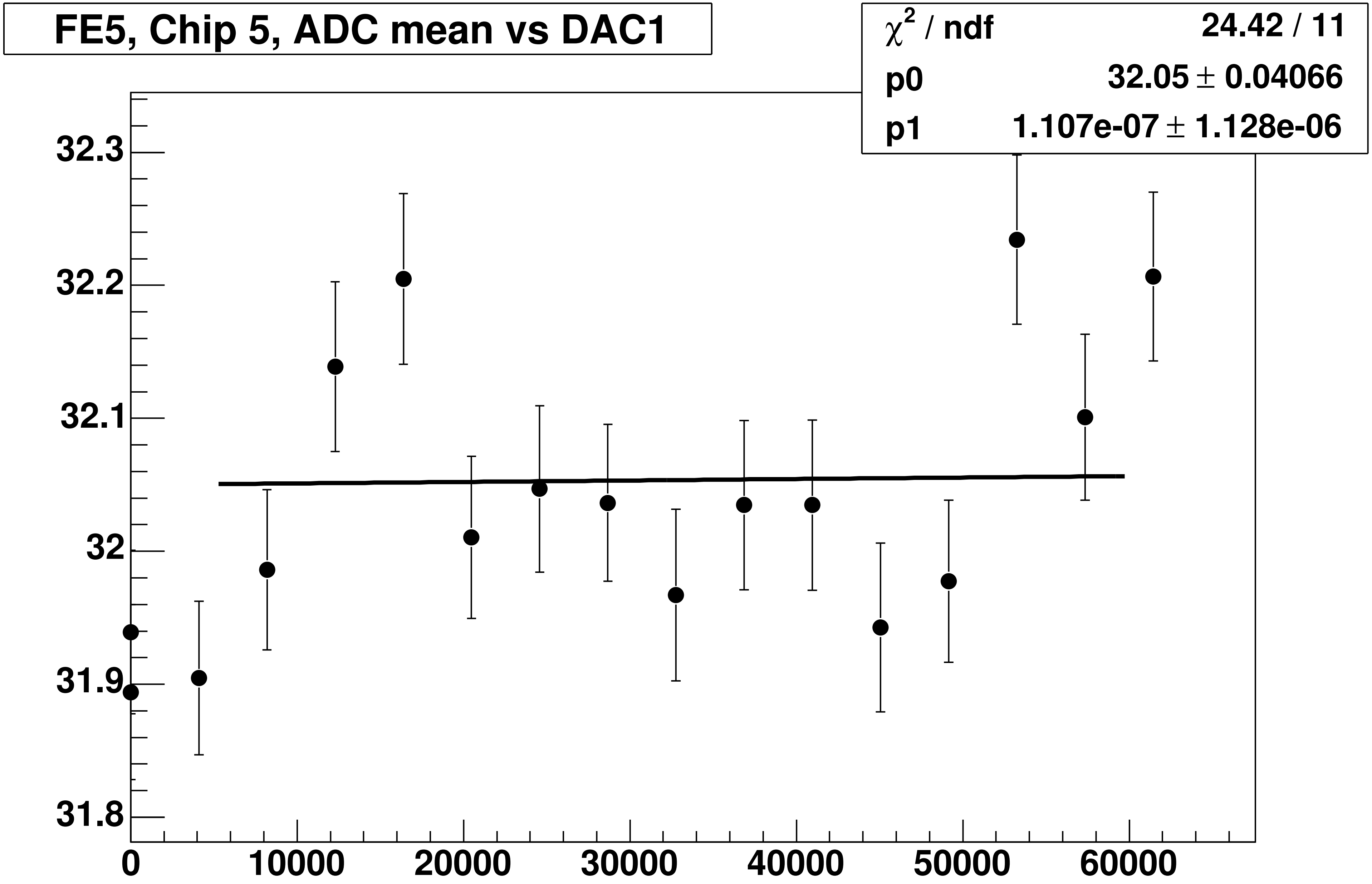


FE5, Chip 5, ADC mean vs DAC0
χ^2 / ndf 2804 / 11
p0 34.41 ± 0.04065
p1 0.4515 ± 1.311e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

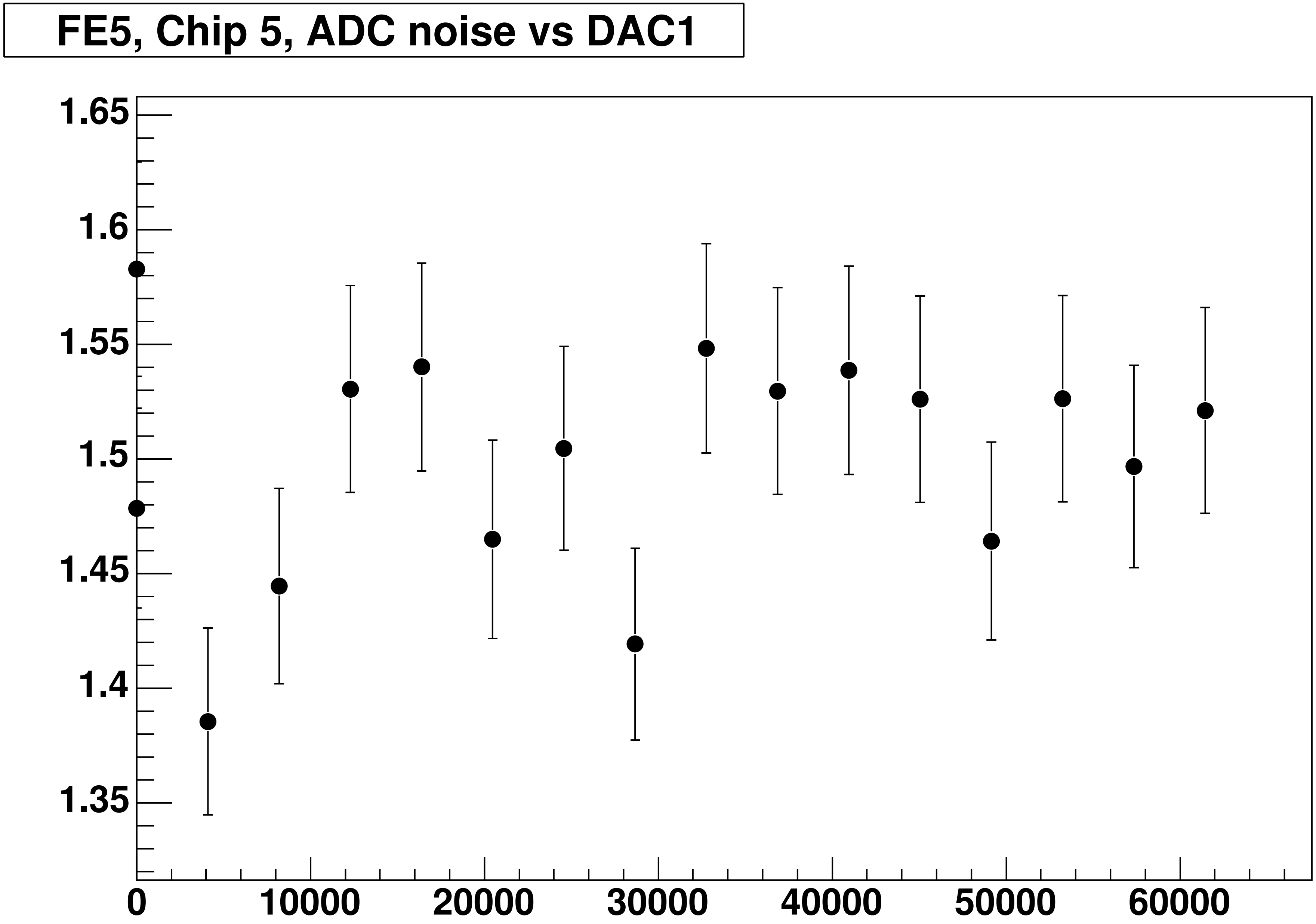

FE5, Chip 5, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



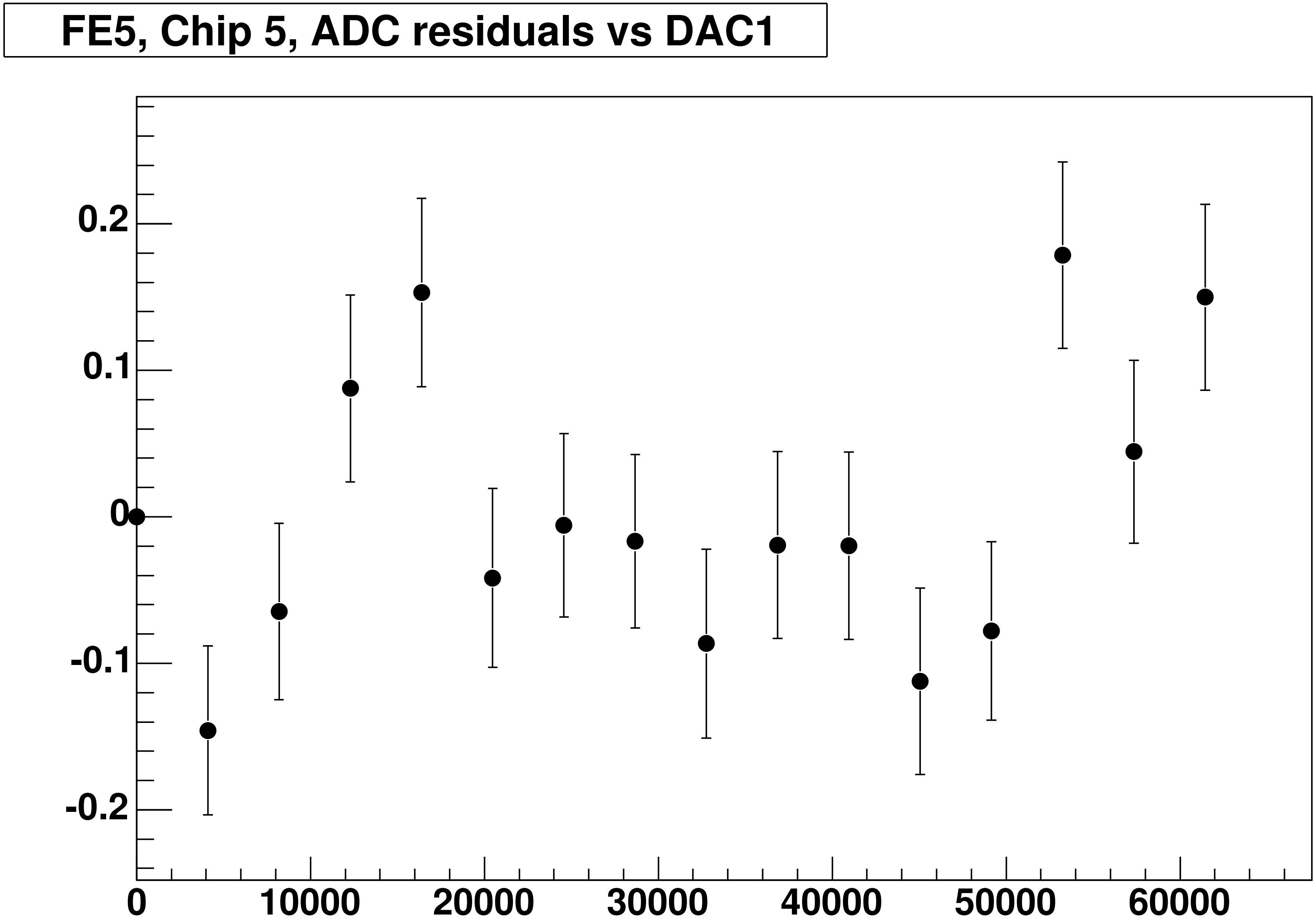
FE5, Chip 5, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



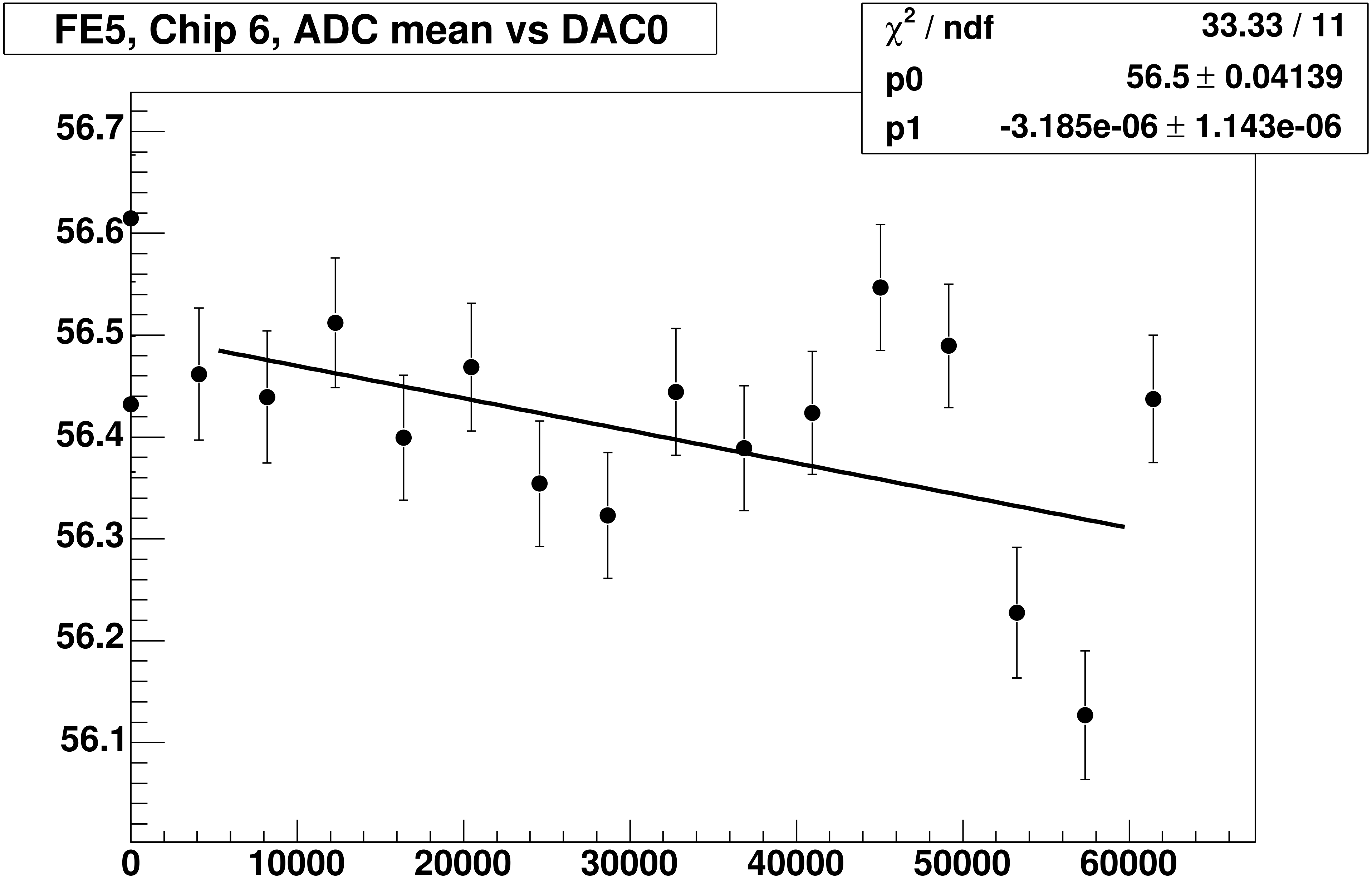
FE5, Chip 5, ADC mean vs DAC1
χ^2 / ndf 24.42 / 11
p0 32.05 ± 0.04066
p1 1.107e-07 ± 1.128e-06
32.3
32.2
32.1
32
31.9
31.8
0
10000
20000
30000
40000
50000
60000



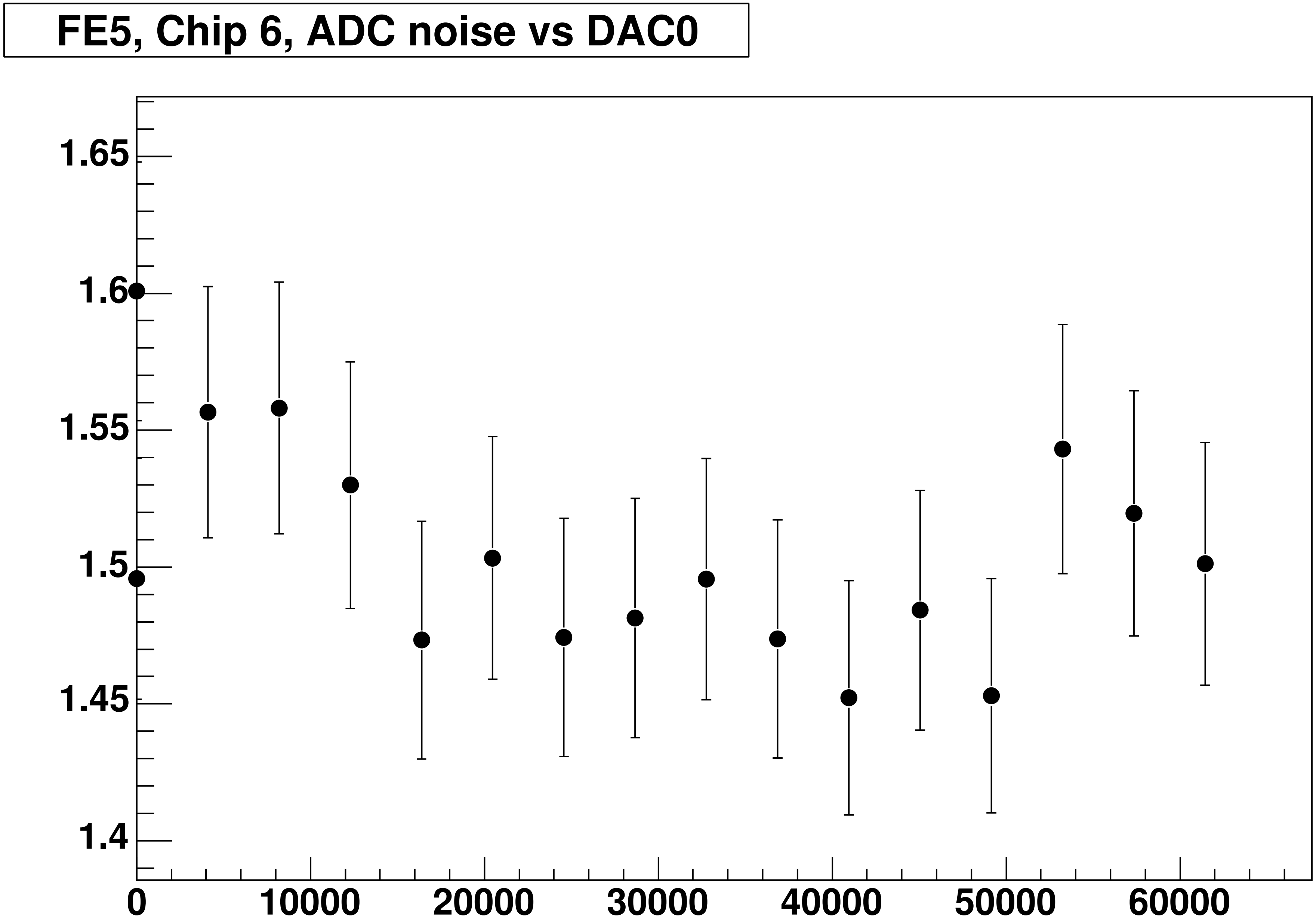
FE5, Chip 5, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

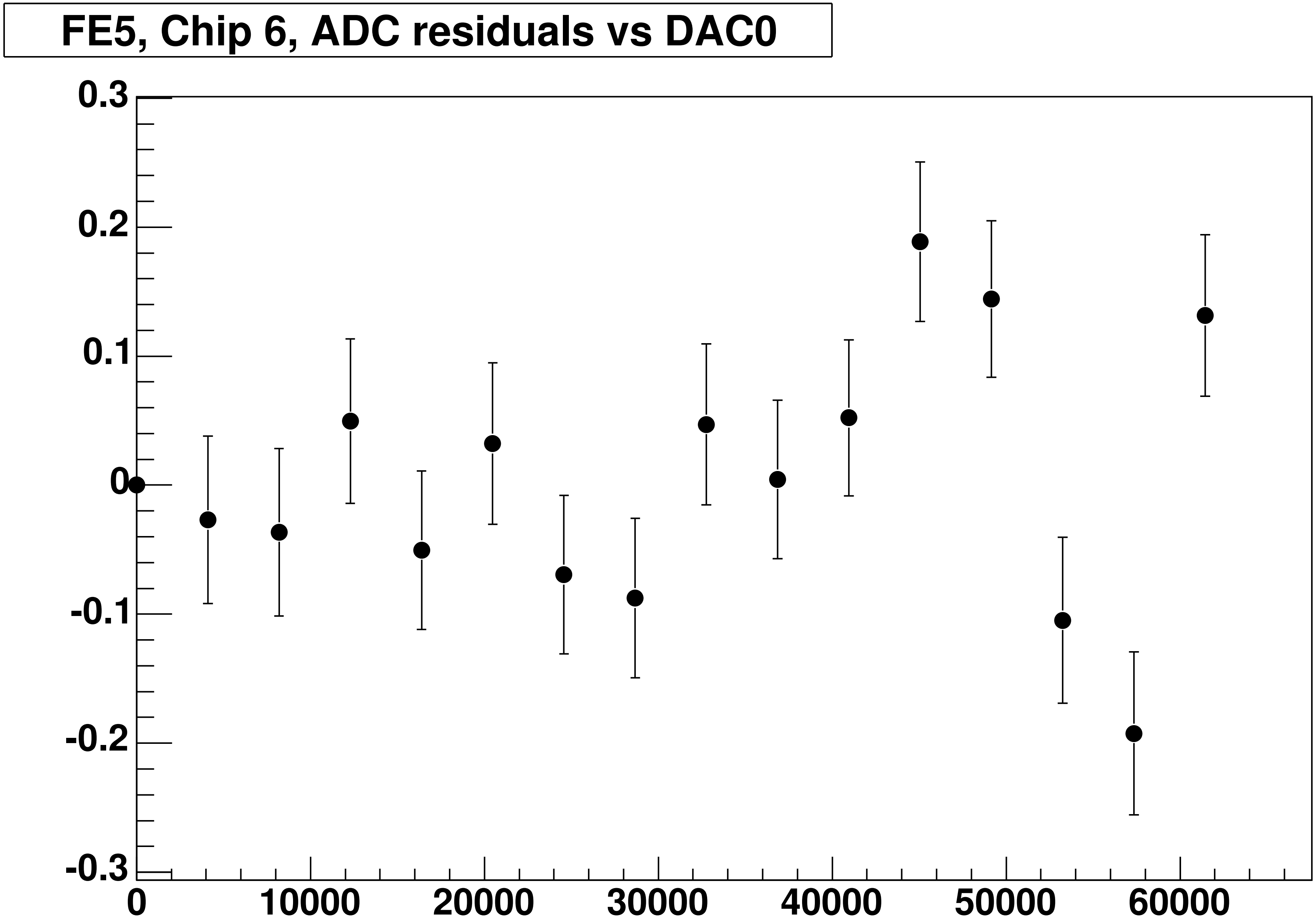


FE5, Chip 5, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

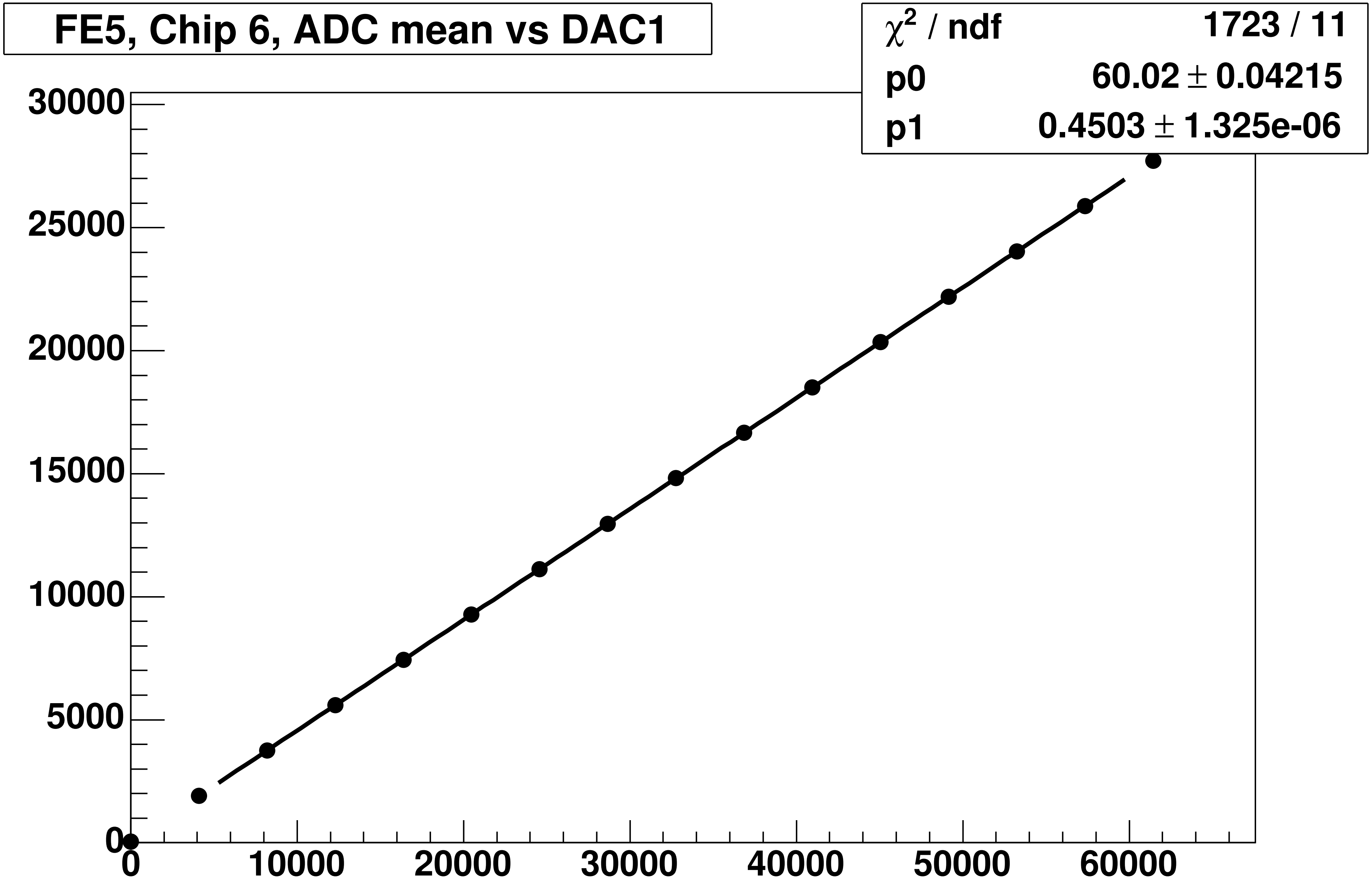


FE5, Chip 6, ADC mean vs DAC0
χ^2 / ndf 33.33 / 11
p0 56.5 ± 0.04139
p1 -3.185e-06 ± 1.143e-06
56.7
56.6
56.5
56.4
56.3
56.2
56.1
0
10000
20000
30000
40000
50000
60000

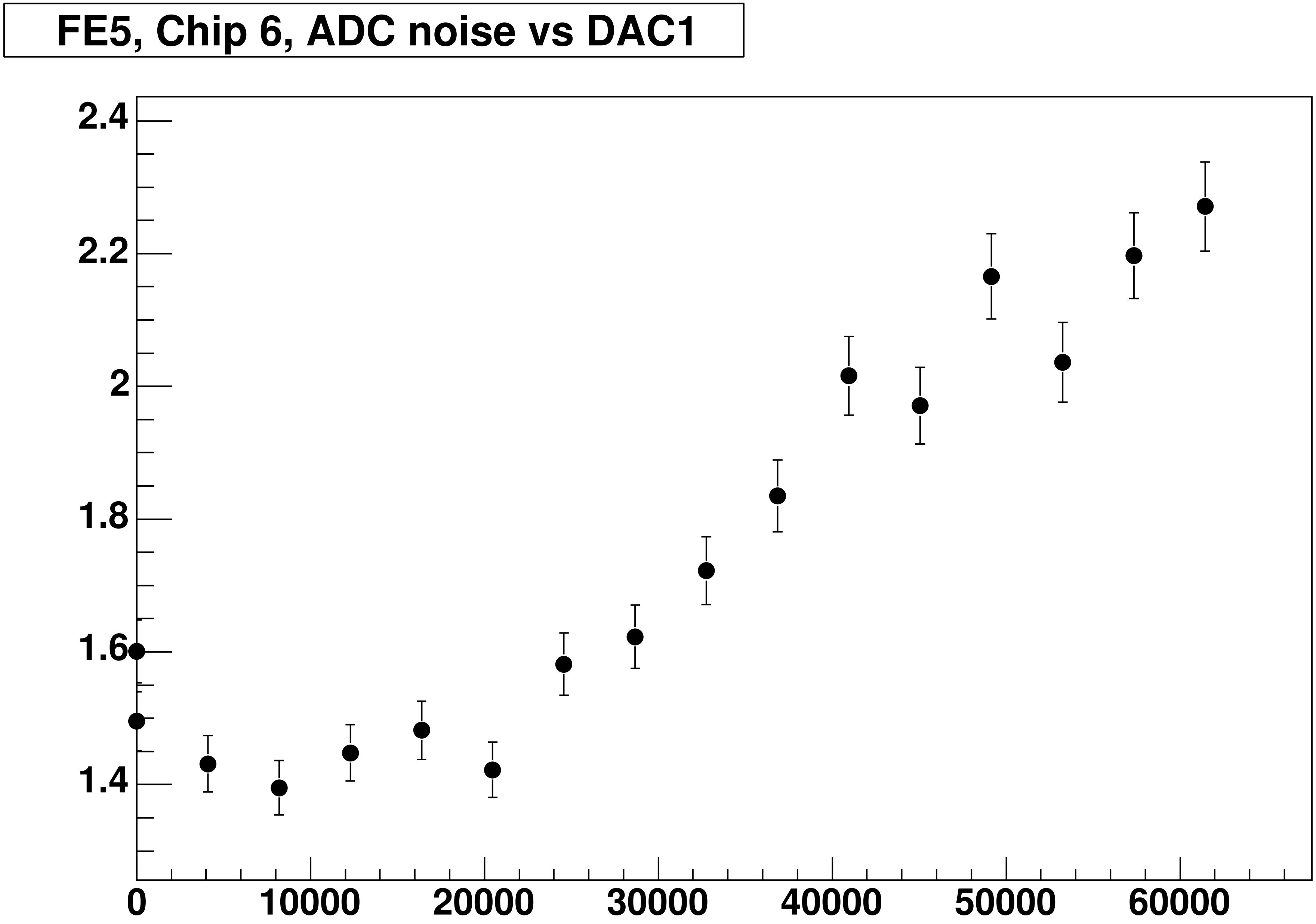

FE5, Chip 6, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

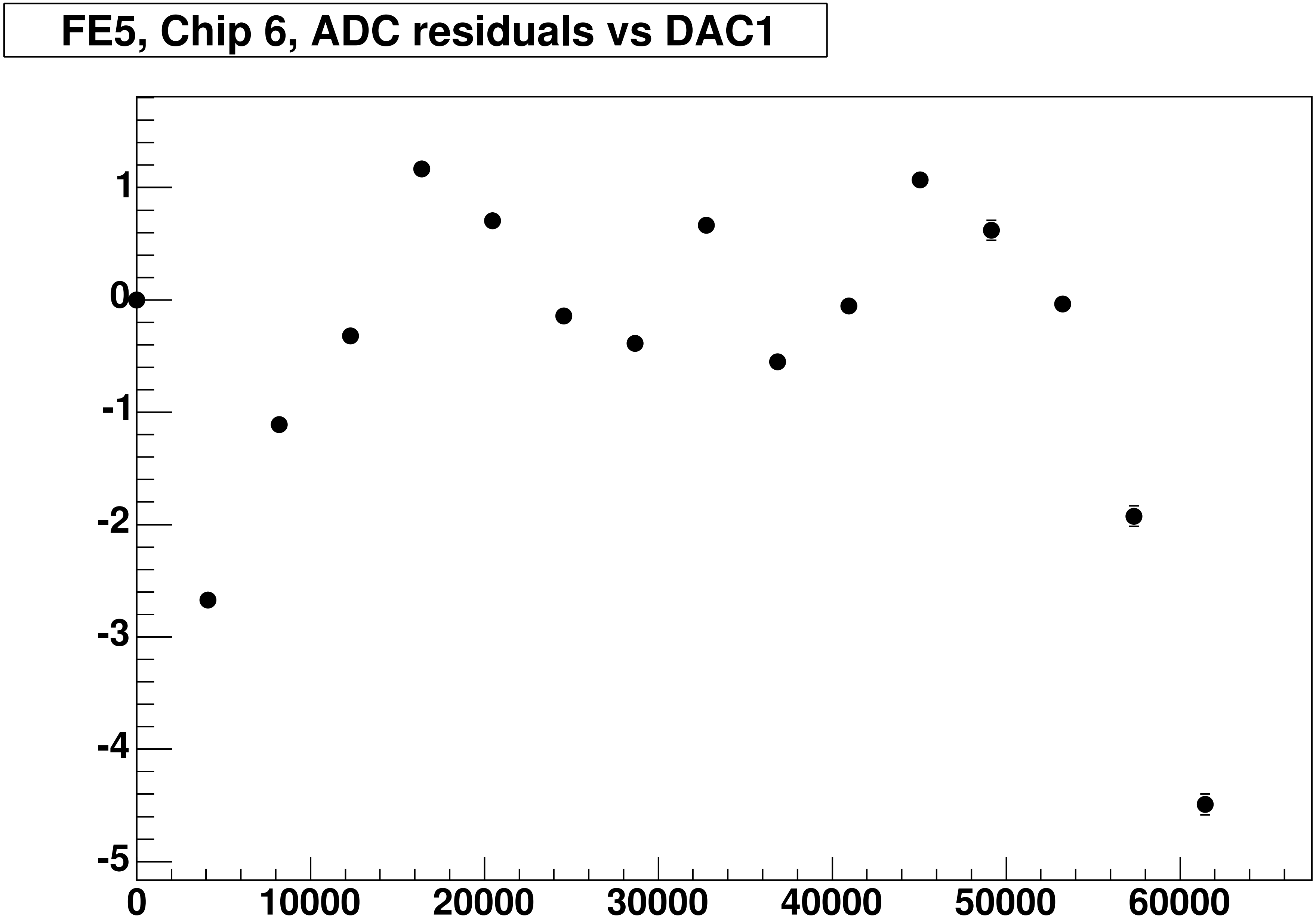


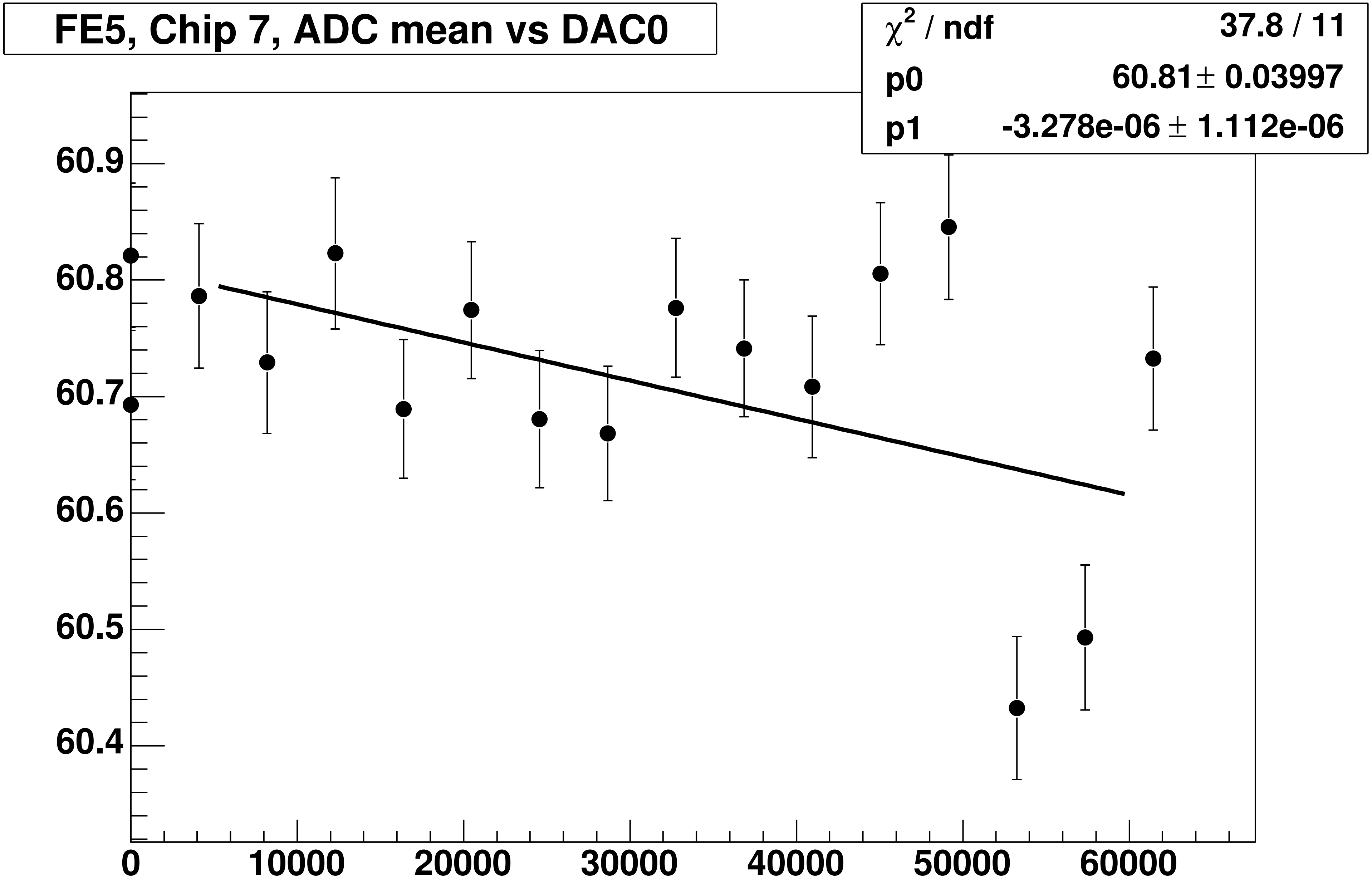
FE5, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



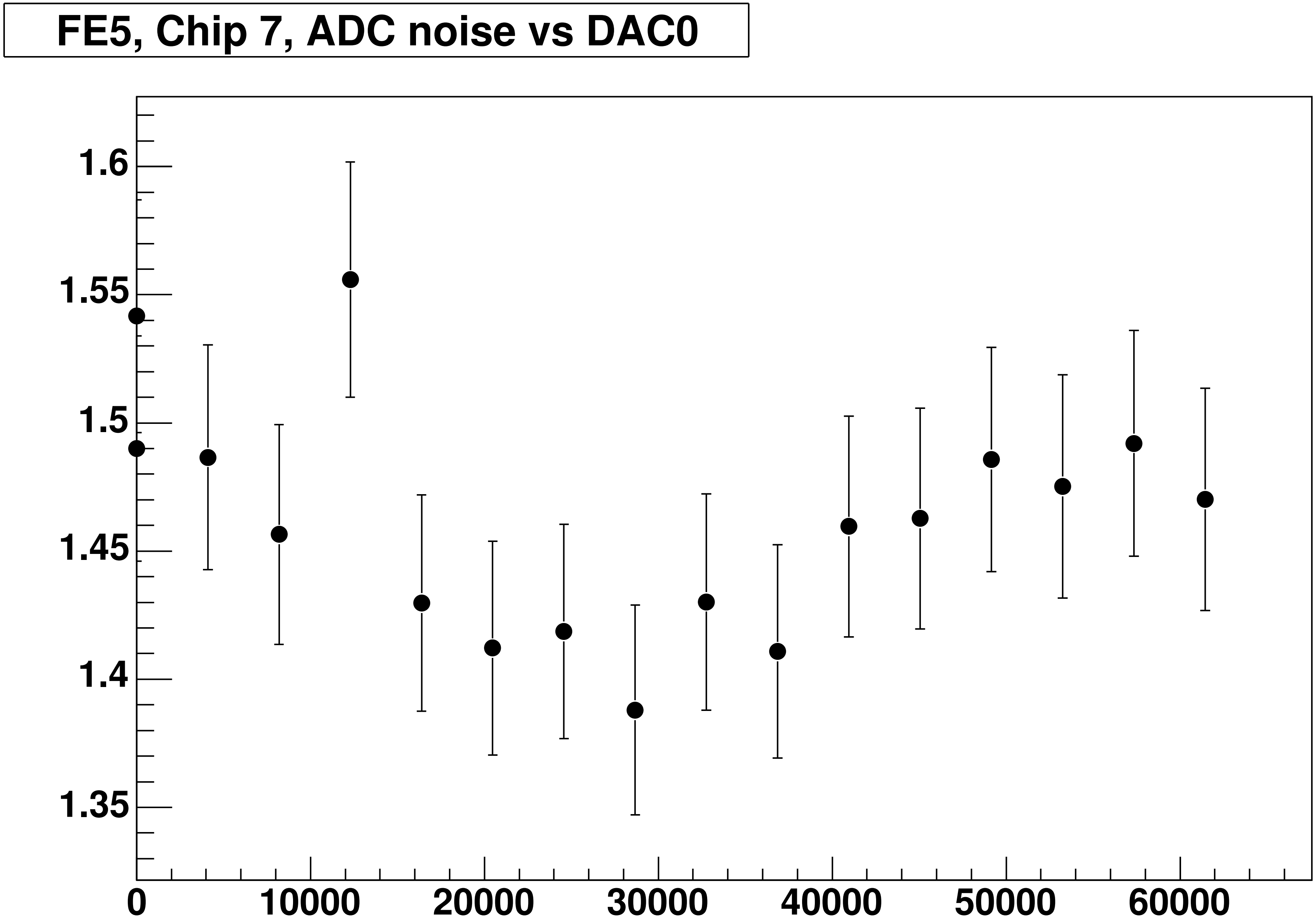
FE5, Chip 6, ADC mean vs DAC1
χ² / ndf 1723 / 11
p0 60.02 ± 0.04215
p1 0.4503 ± 1.325e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

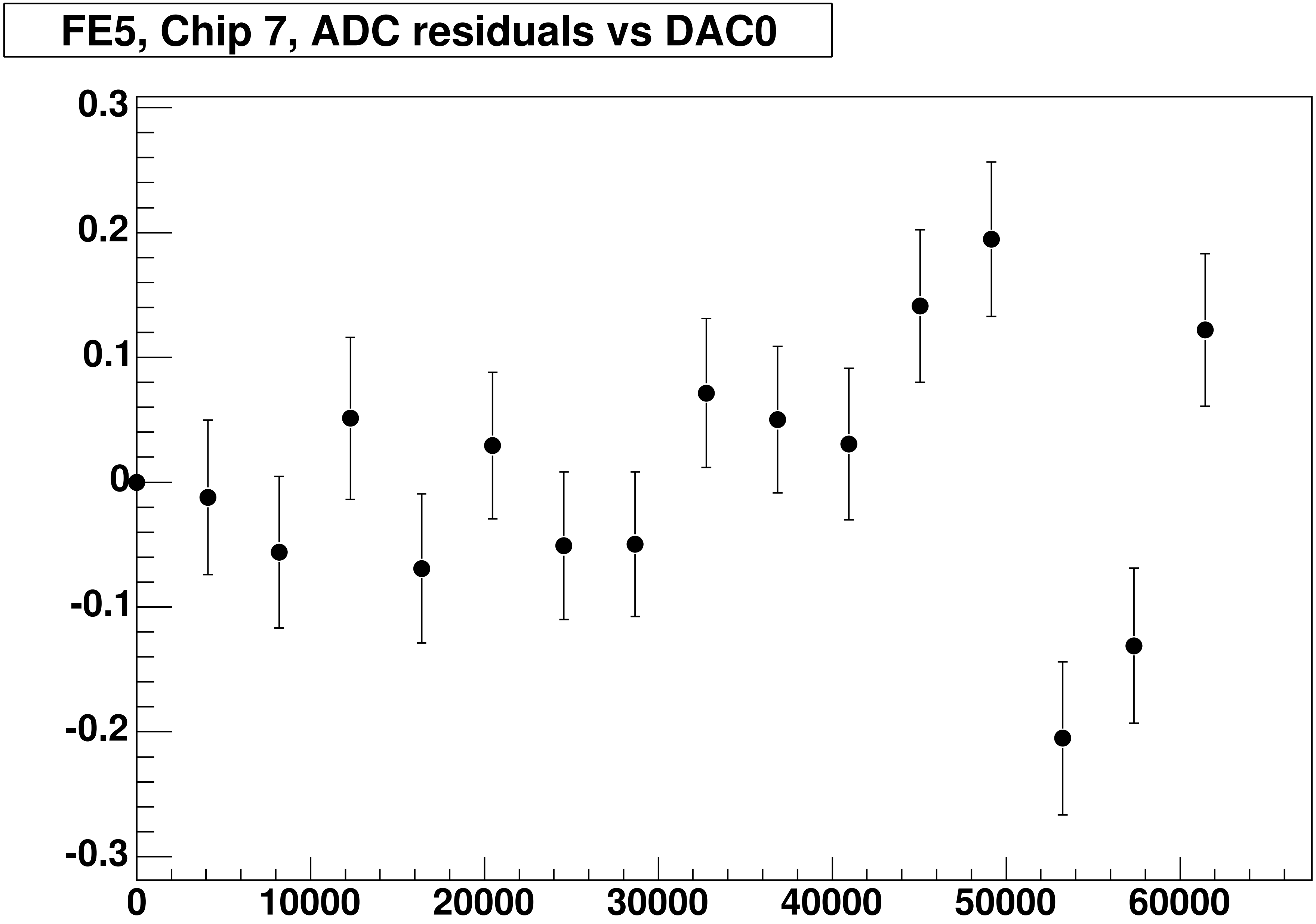

FE5, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

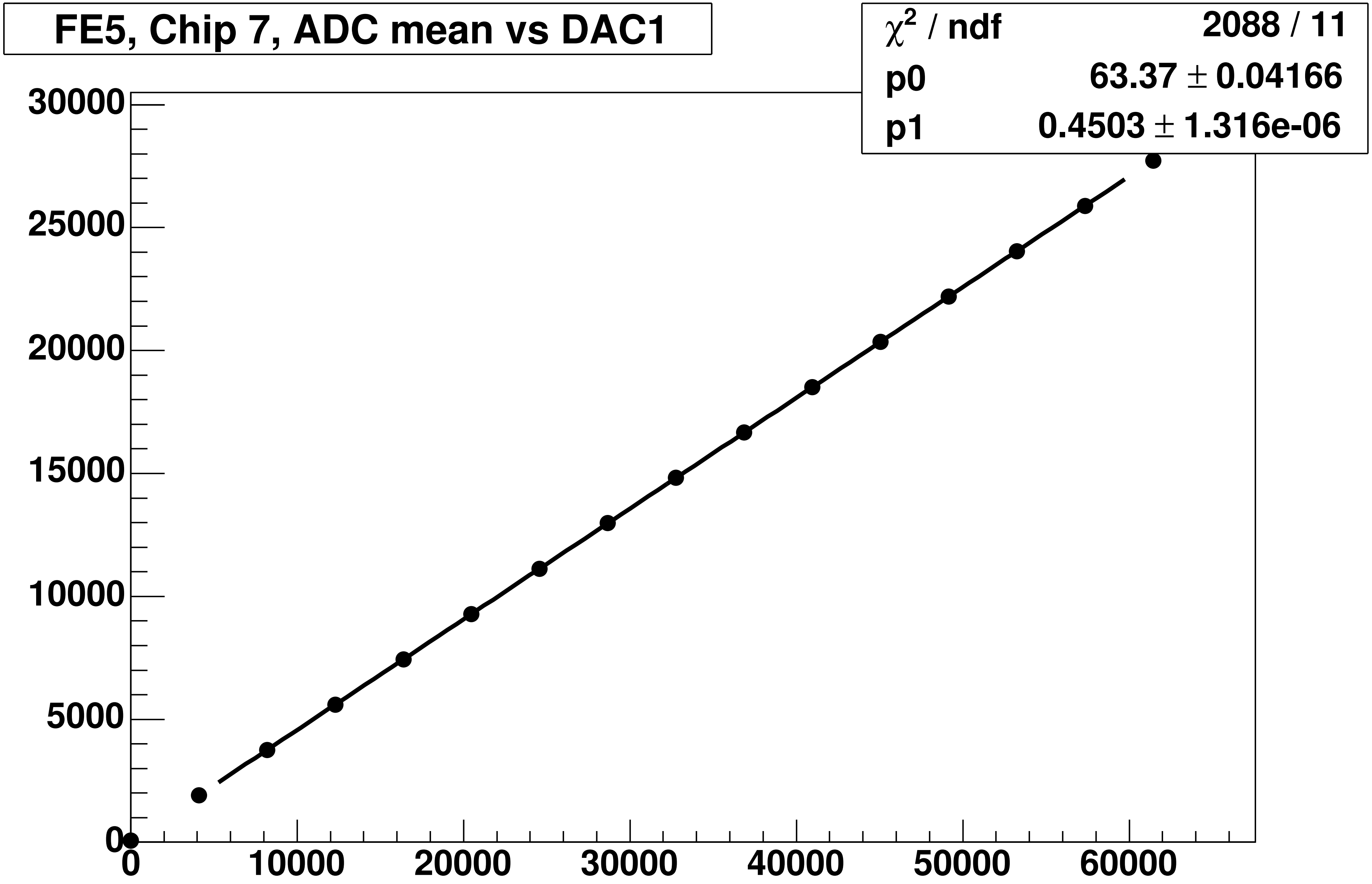

FE5, Chip 6, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



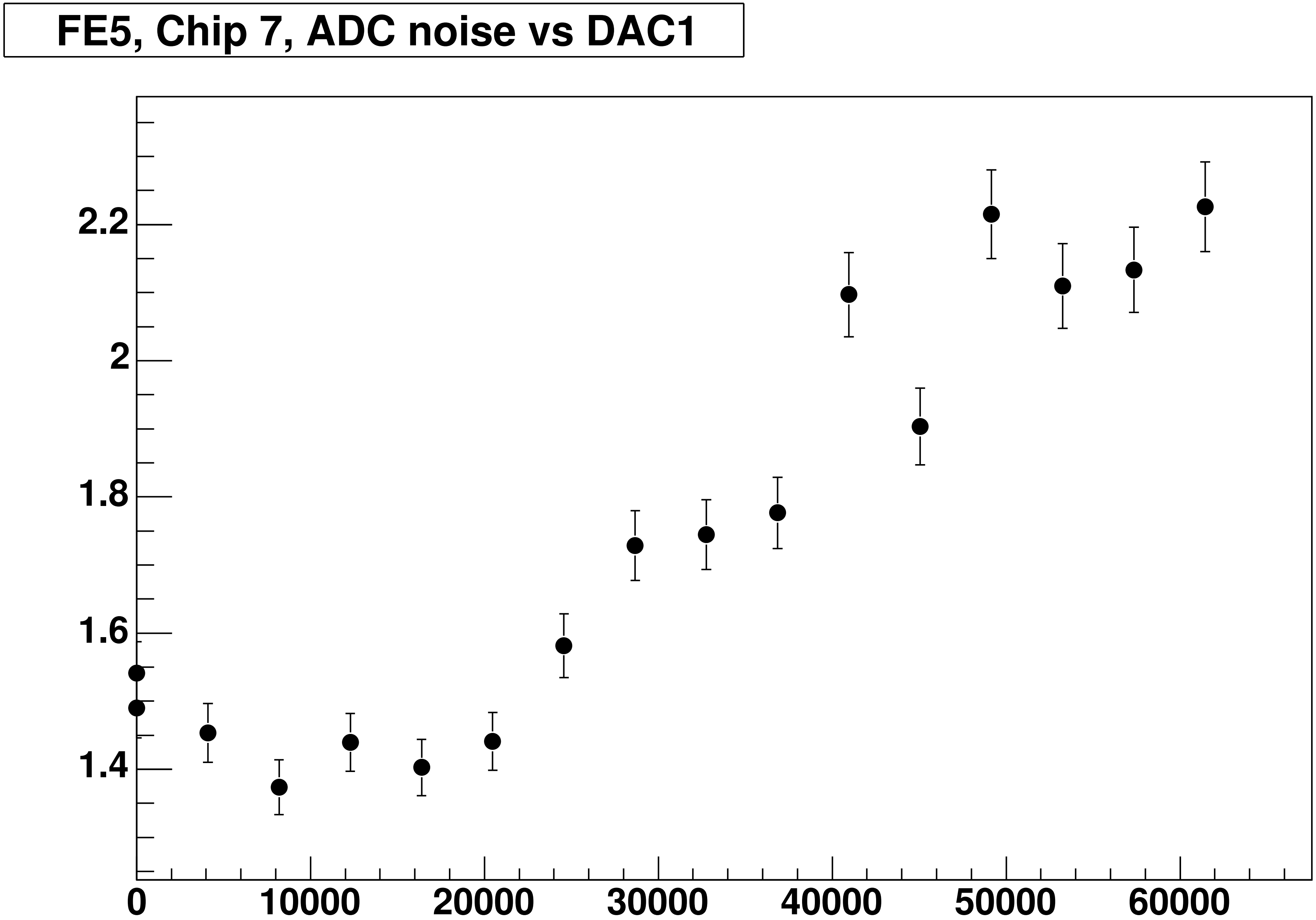
FE5, Chip 7, ADC mean vs DAC0
χ^2 / ndf 37.8 / 11
p0 60.81 ± 0.03997
p1 -3.278e-06 ± 1.112e-06
60.9
60.8
60.7
60.6
60.5
60.4
0
10000
20000
30000
40000
50000
60000

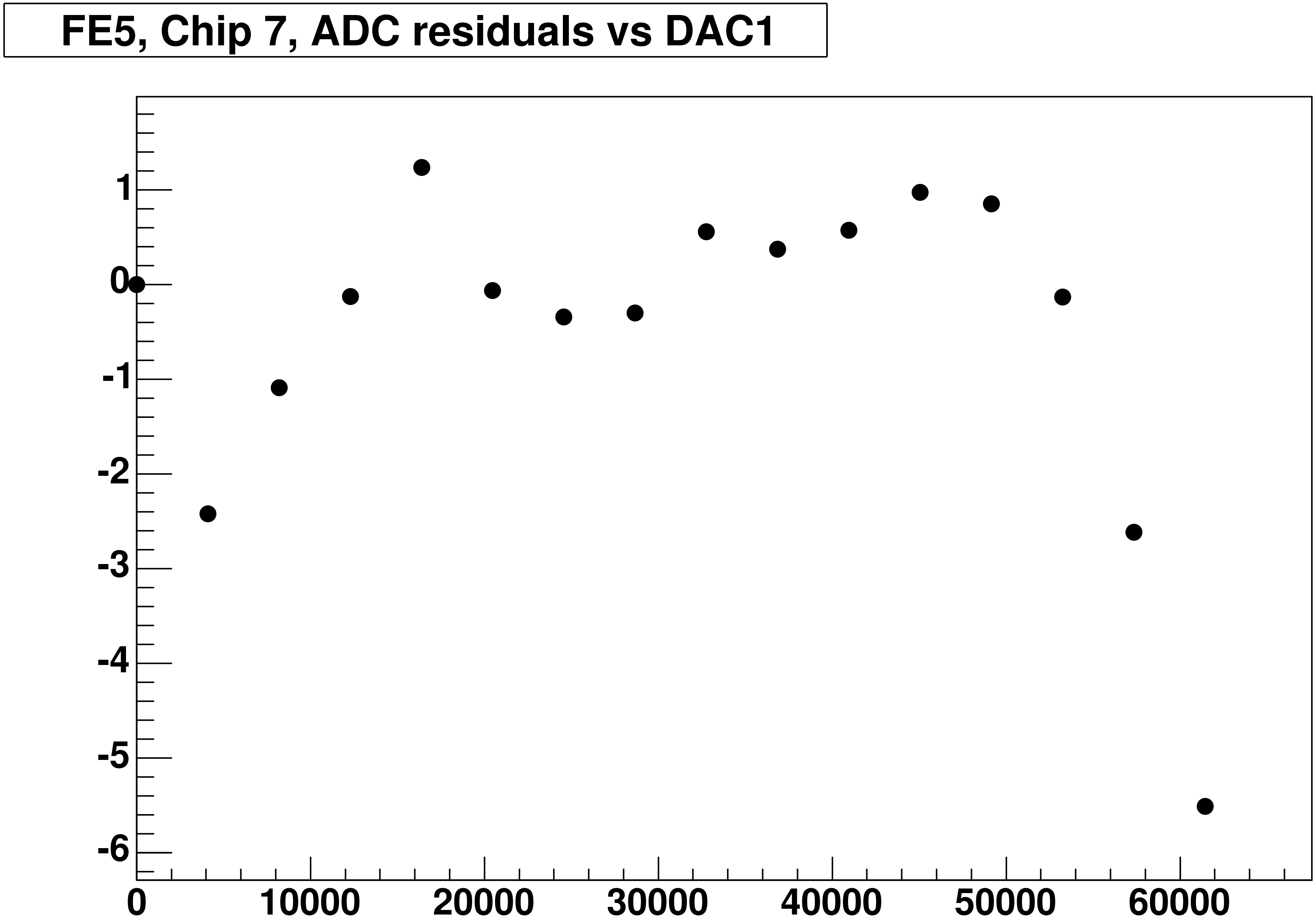

FE5, Chip 7, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

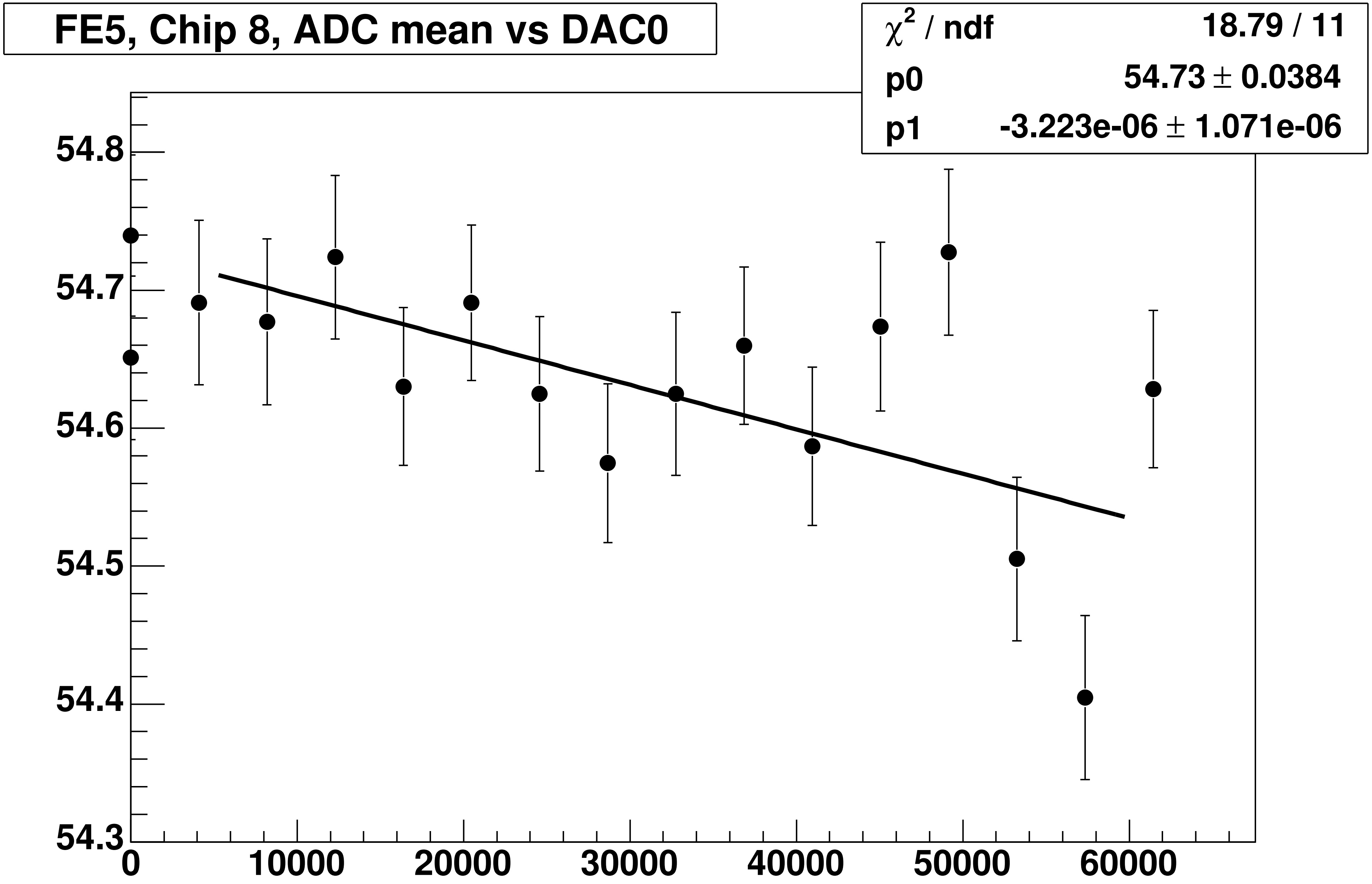


FE5, Chip 7, ADC mean vs DAC1
χ^2 / ndf 2088 / 11
p0 63.37 ± 0.04166
p1 0.4503 ± 1.316e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

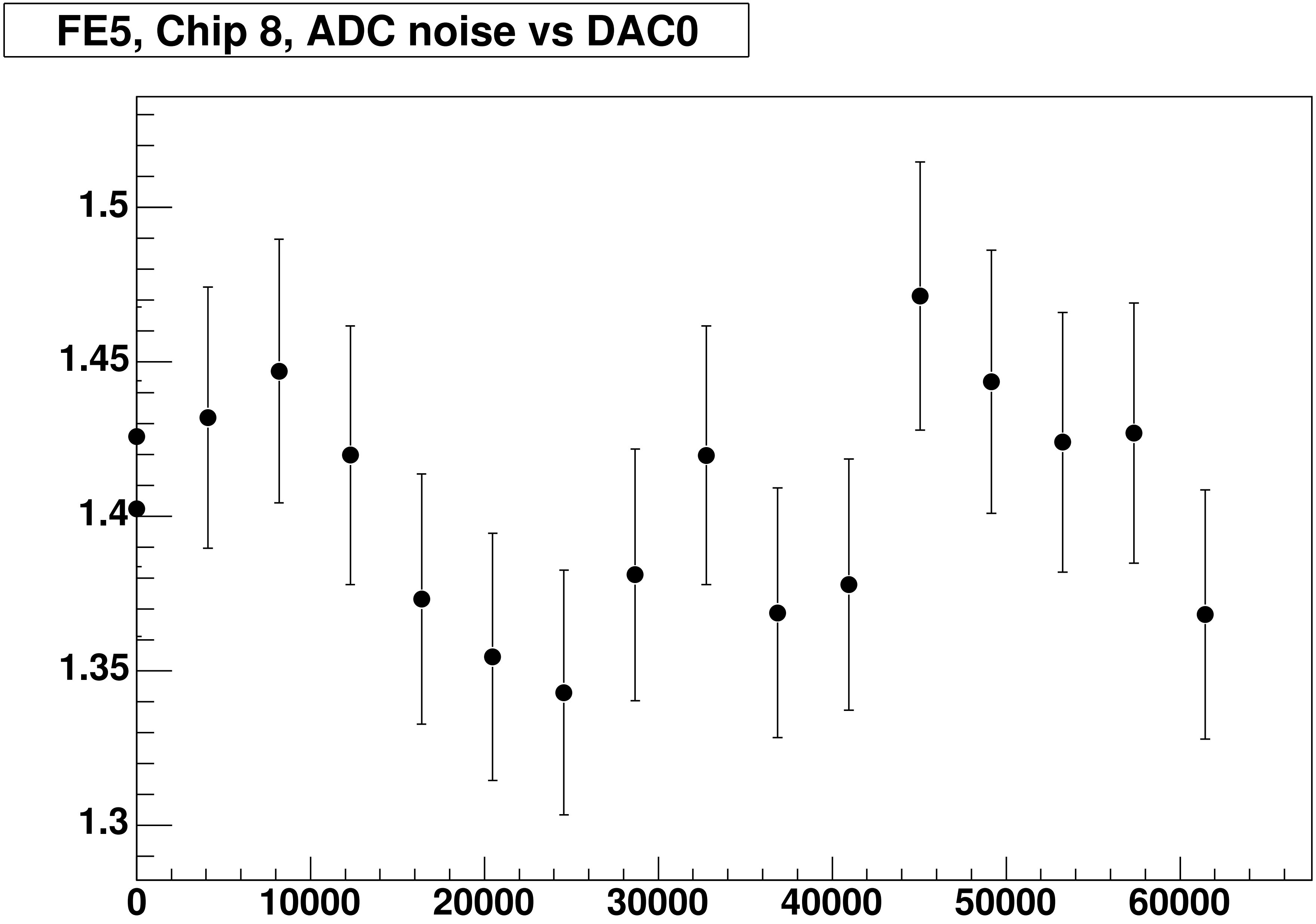

FE5, Chip 7, ADC noise vs DAC1
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



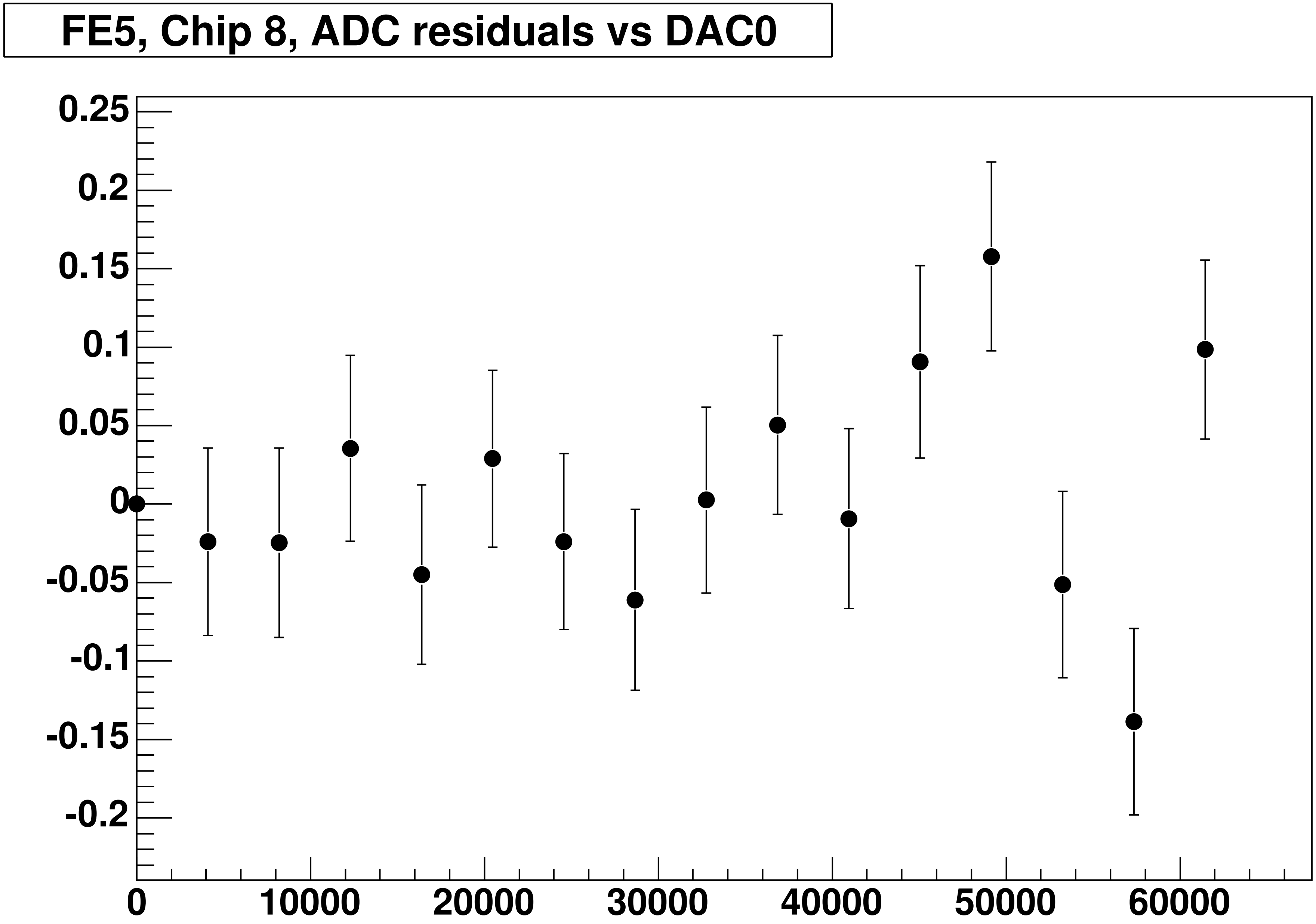
FE5, Chip 7, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

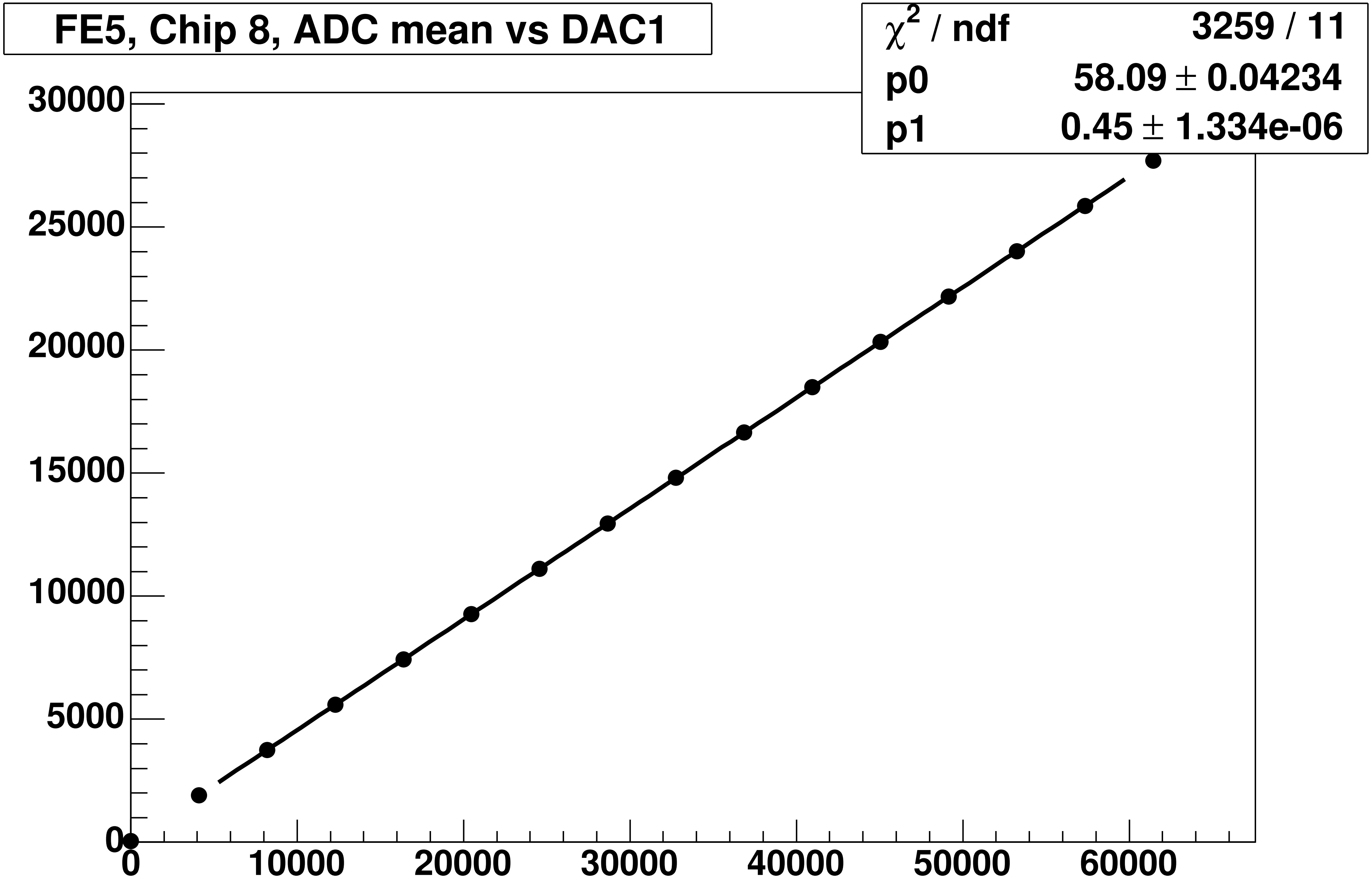


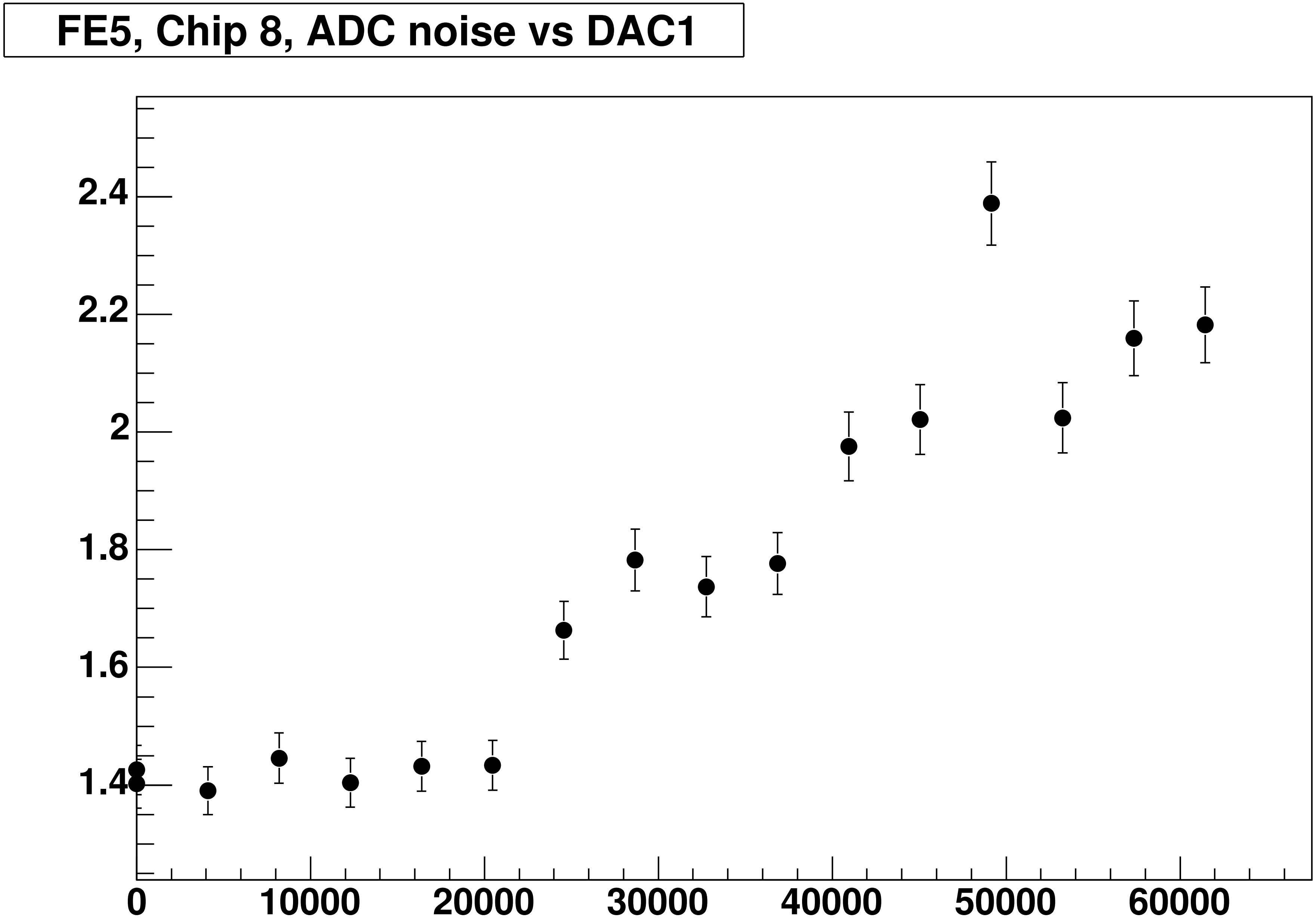
FE5, Chip 8, ADC mean vs DAC0
χ^2 / ndf 18.79 / 11
p0 54.73 ± 0.0384
p1 -3.223e-06 ± 1.071e-06
54.8
54.7
54.6
54.5
54.4
54.3
0
10000
20000
30000
40000
50000
60000

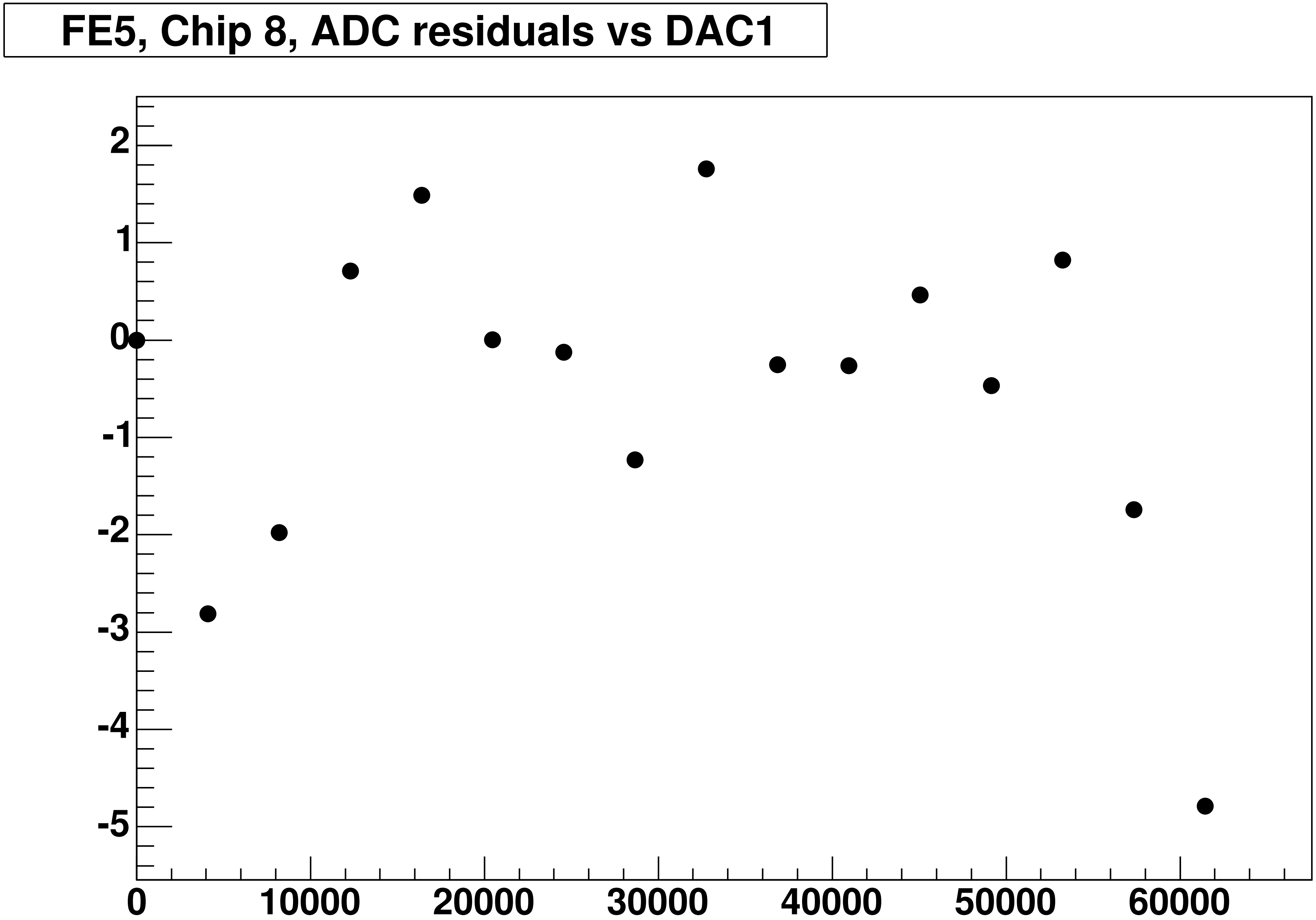


FE5, Chip 8, ADC noise vs DAC0
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

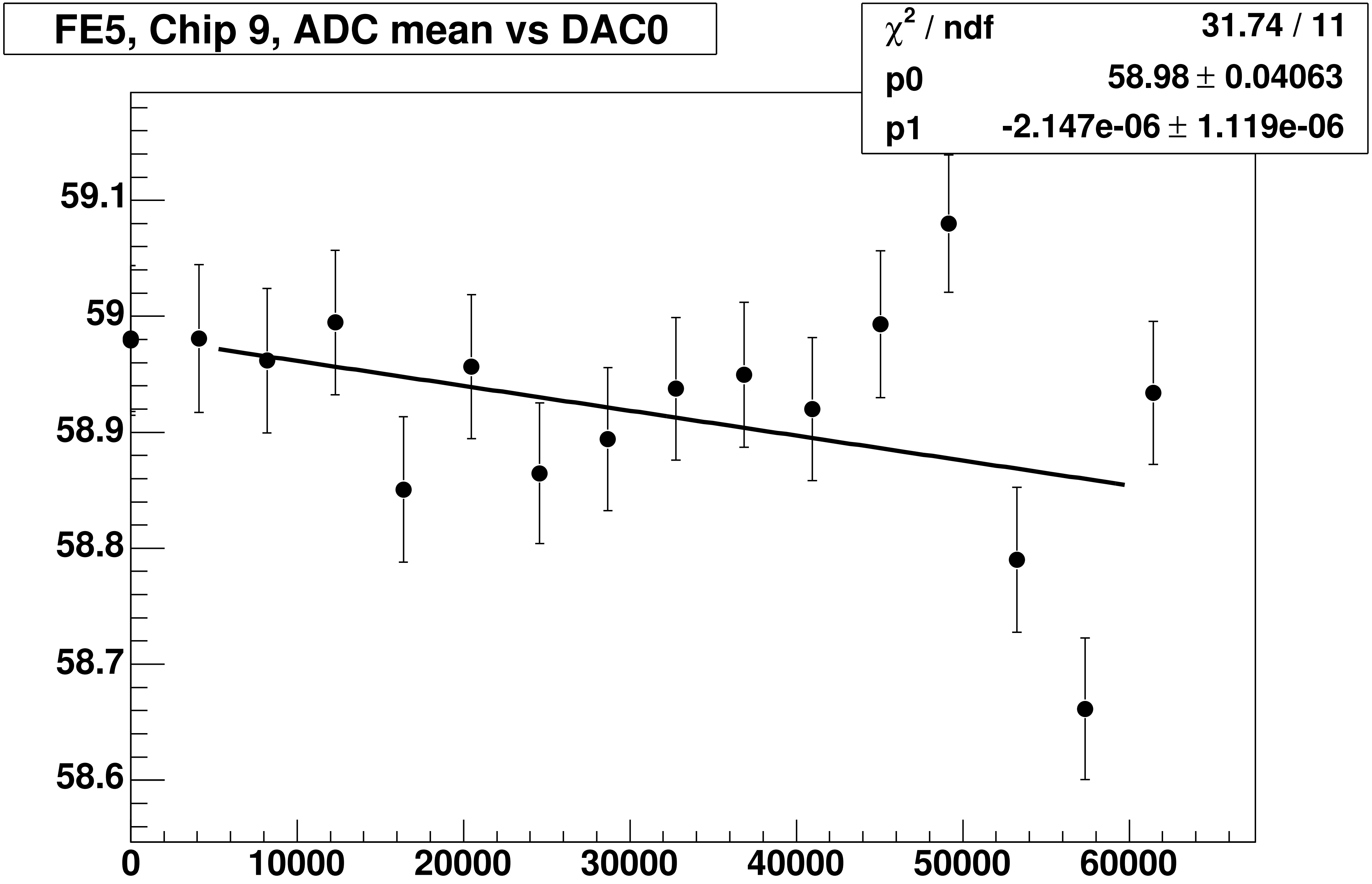

FE5, Chip 8, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000


FE5, Chip 8, ADC mean vs DAC1
χ^2 / ndf 3259 / 11
p0 58.09 ± 0.04234
p1 0.45 ± 1.334e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

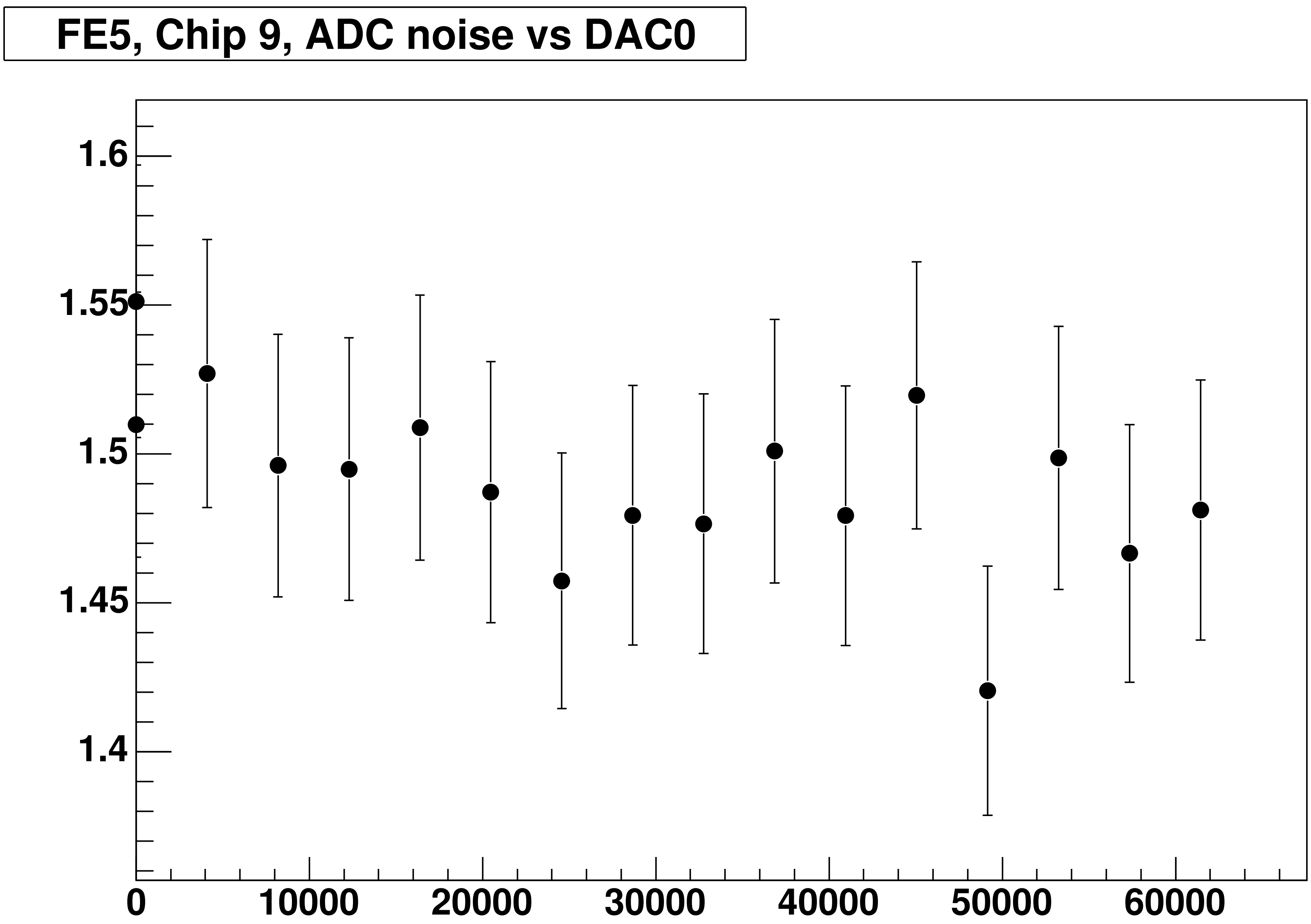

FE5, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



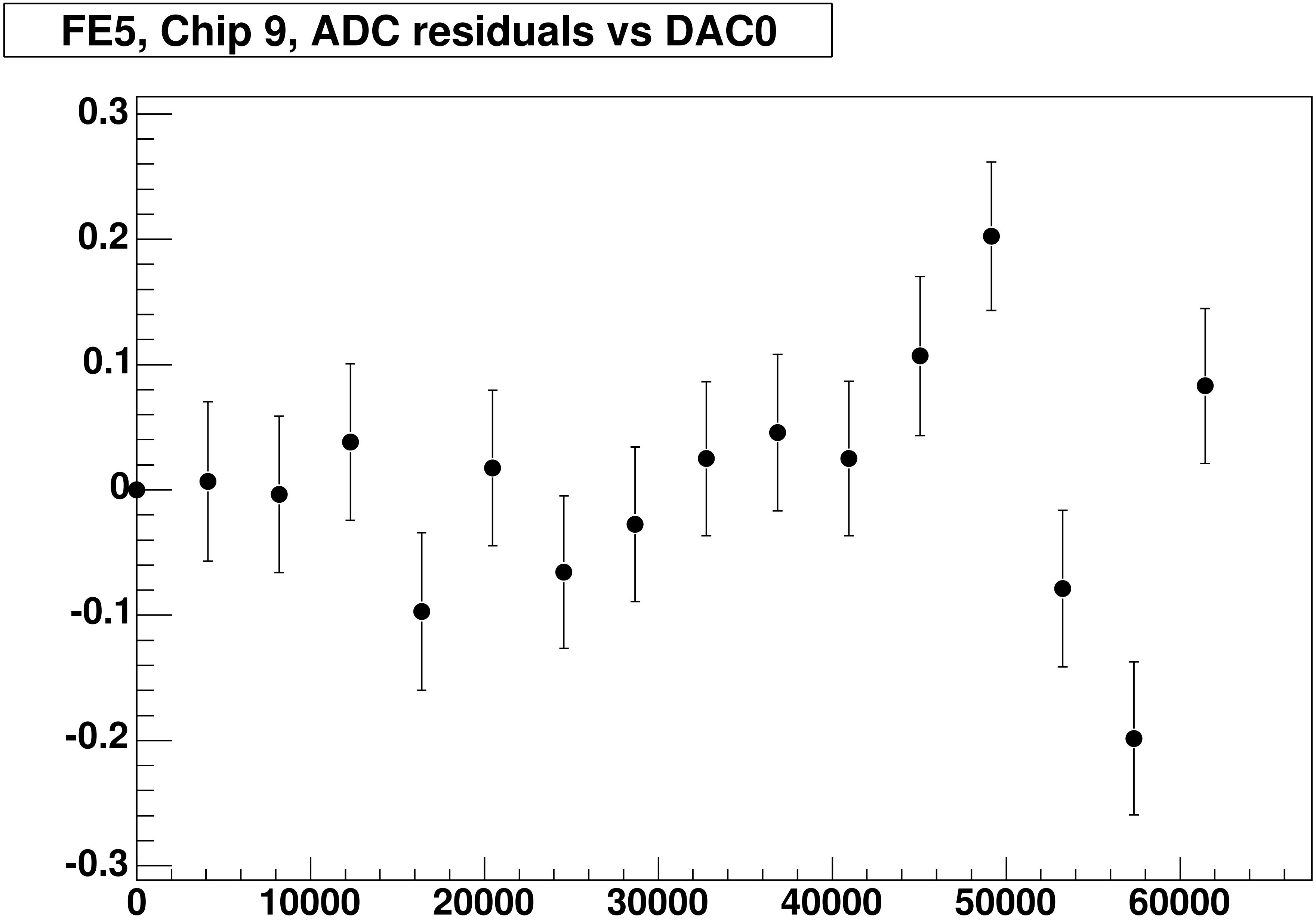
FE5, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



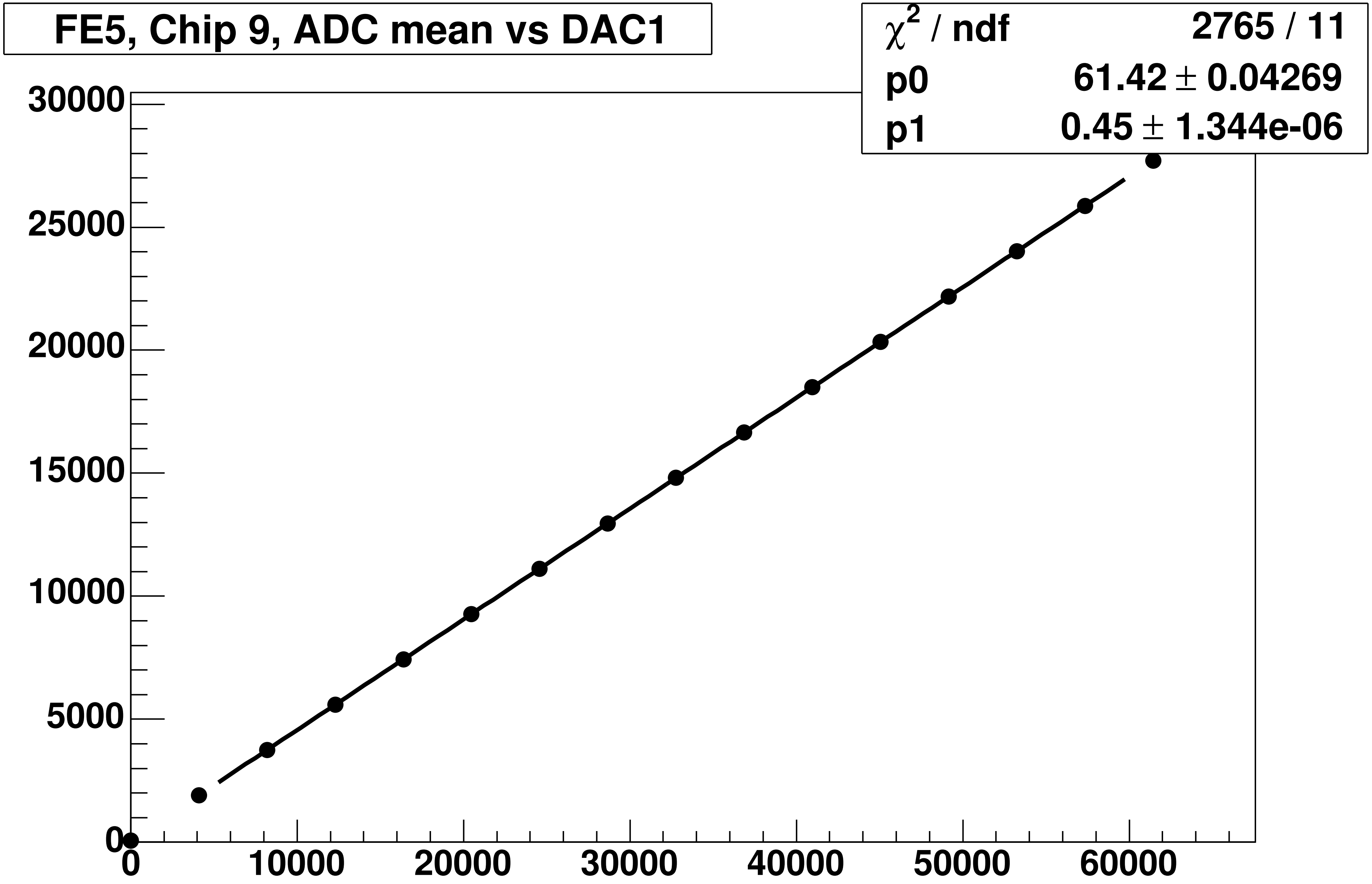
FE5, Chip 9, ADC mean vs DAC0
χ^2 / ndf 31.74 / 11
p0 58.98 ± 0.04063
p1 -2.147e-06 ± 1.119e-06
59.1
59
58.9
58.8
58.7
58.6
0
10000
20000
30000
40000
50000
60000



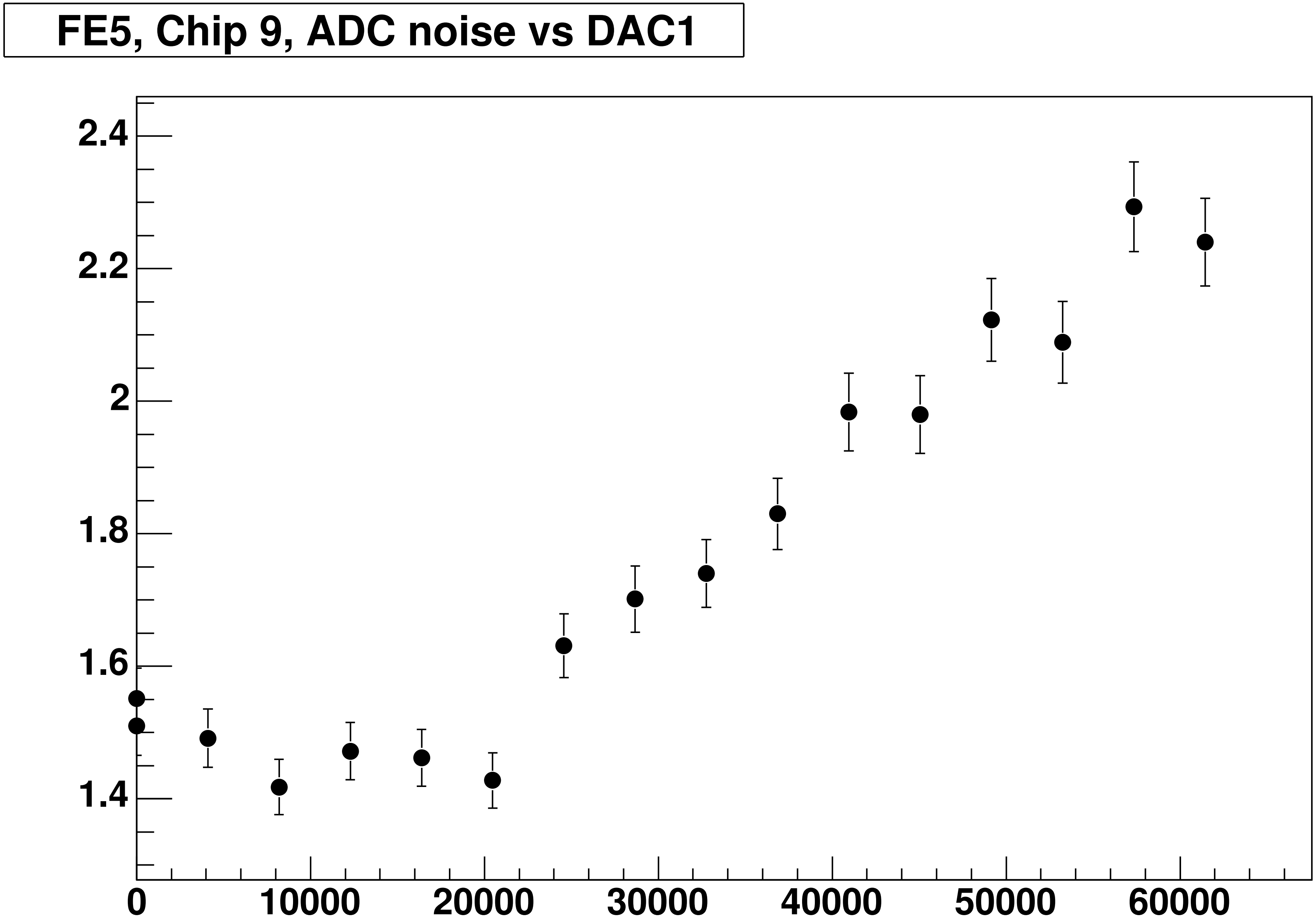
FE5, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

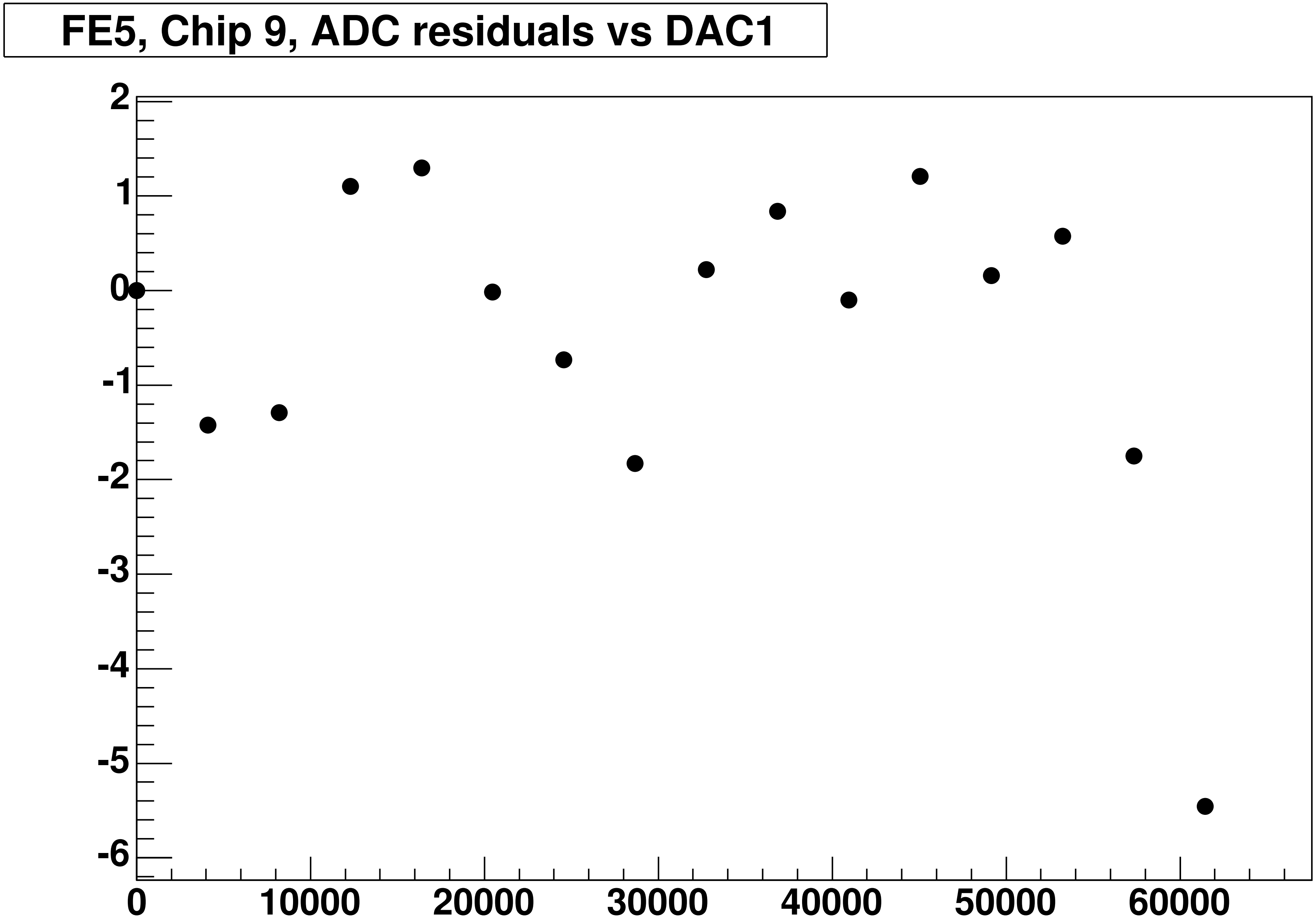


FE5, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

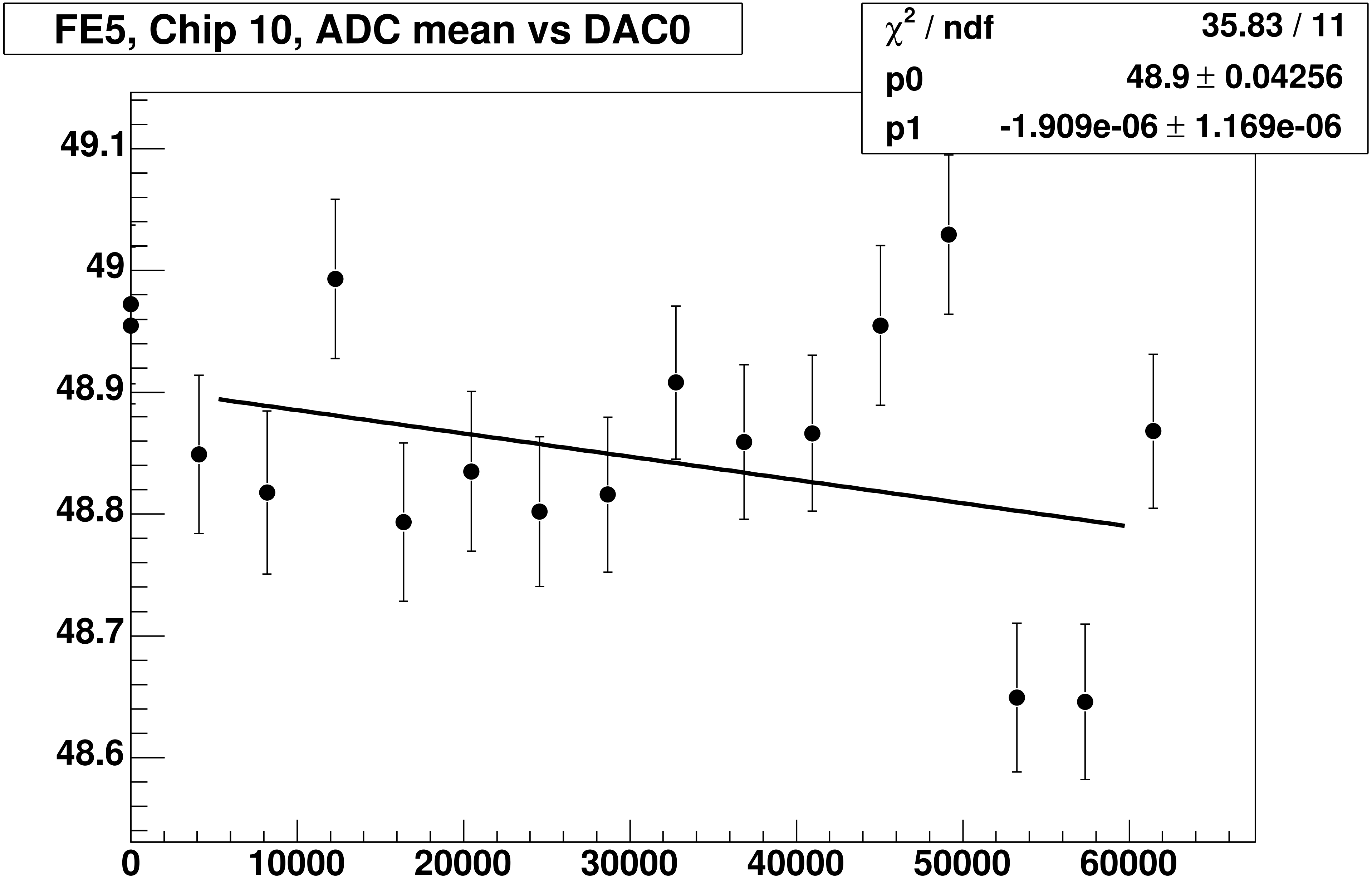


FE5, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2765 / 11
p0 61.42 ± 0.04269
p1 0.45 ± 1.344e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

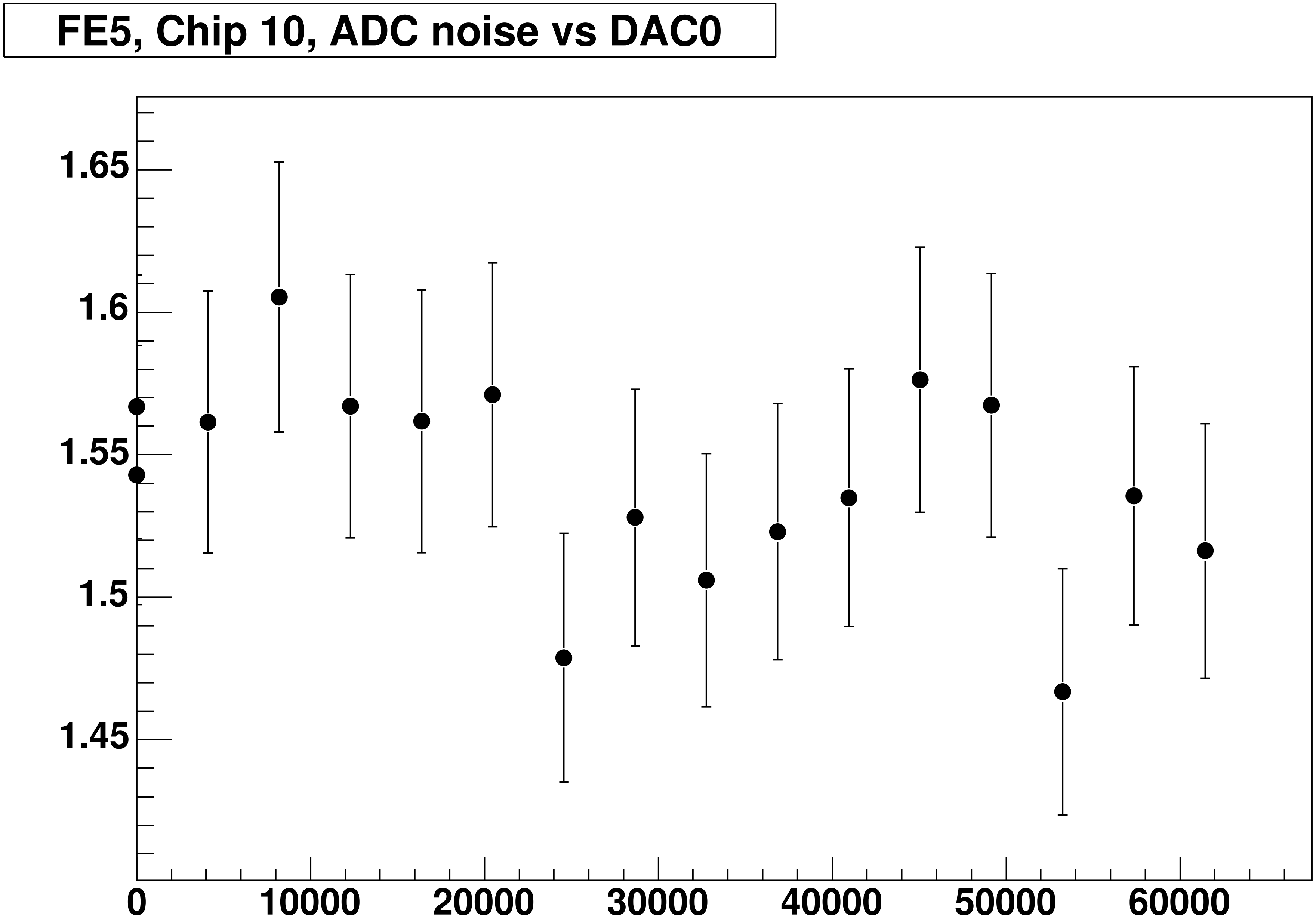

FE5, Chip 9, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

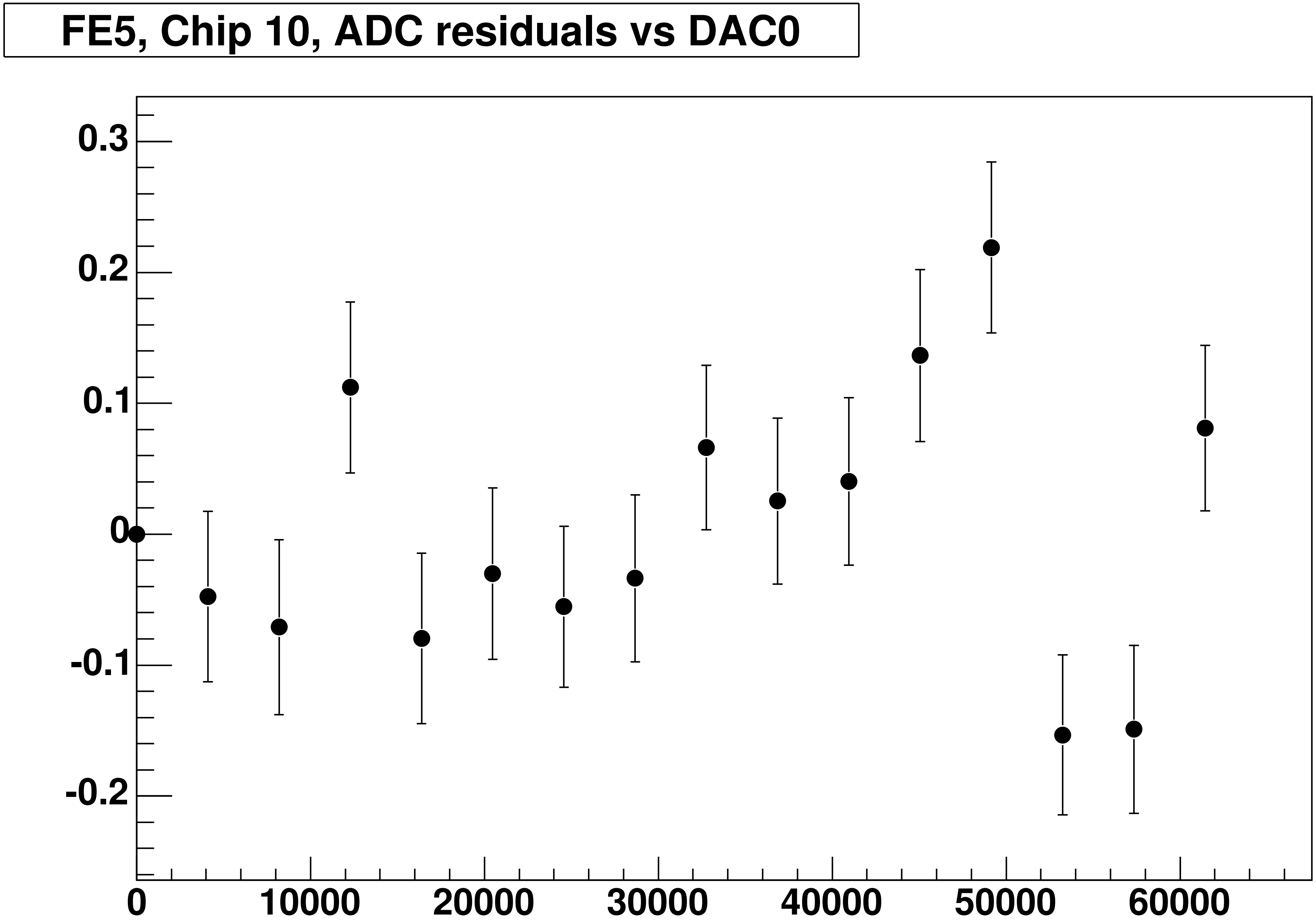


FE5, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

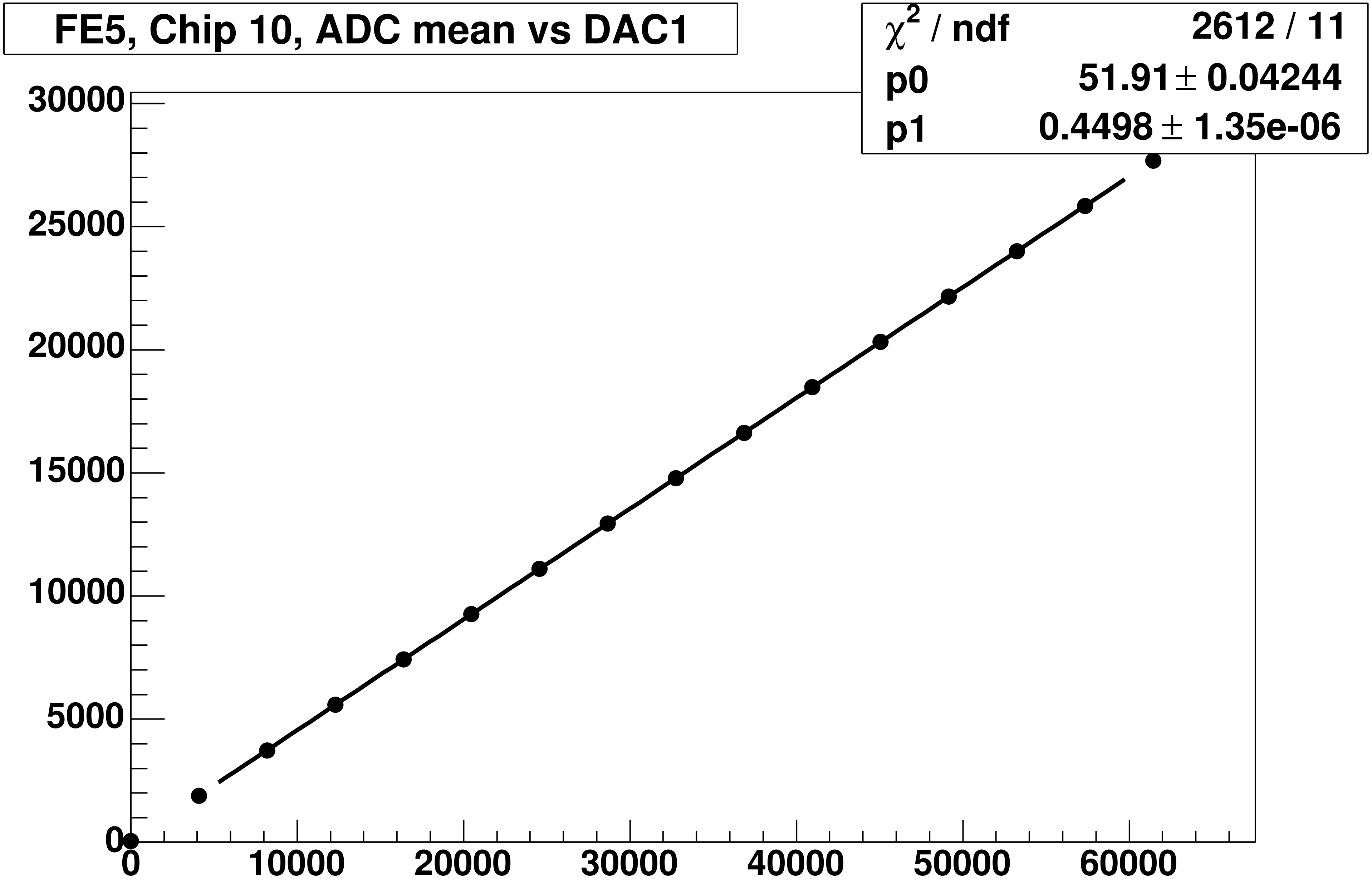


FE5, Chip 10, ADC mean vs DAC0
χ^2 / ndf 35.83 / 11
p0 48.9 ± 0.04256
p1 -1.909e-06 ± 1.169e-06
49.1
49
48.9
48.8
48.7
48.6
0
10000
20000
30000
40000
50000
60000

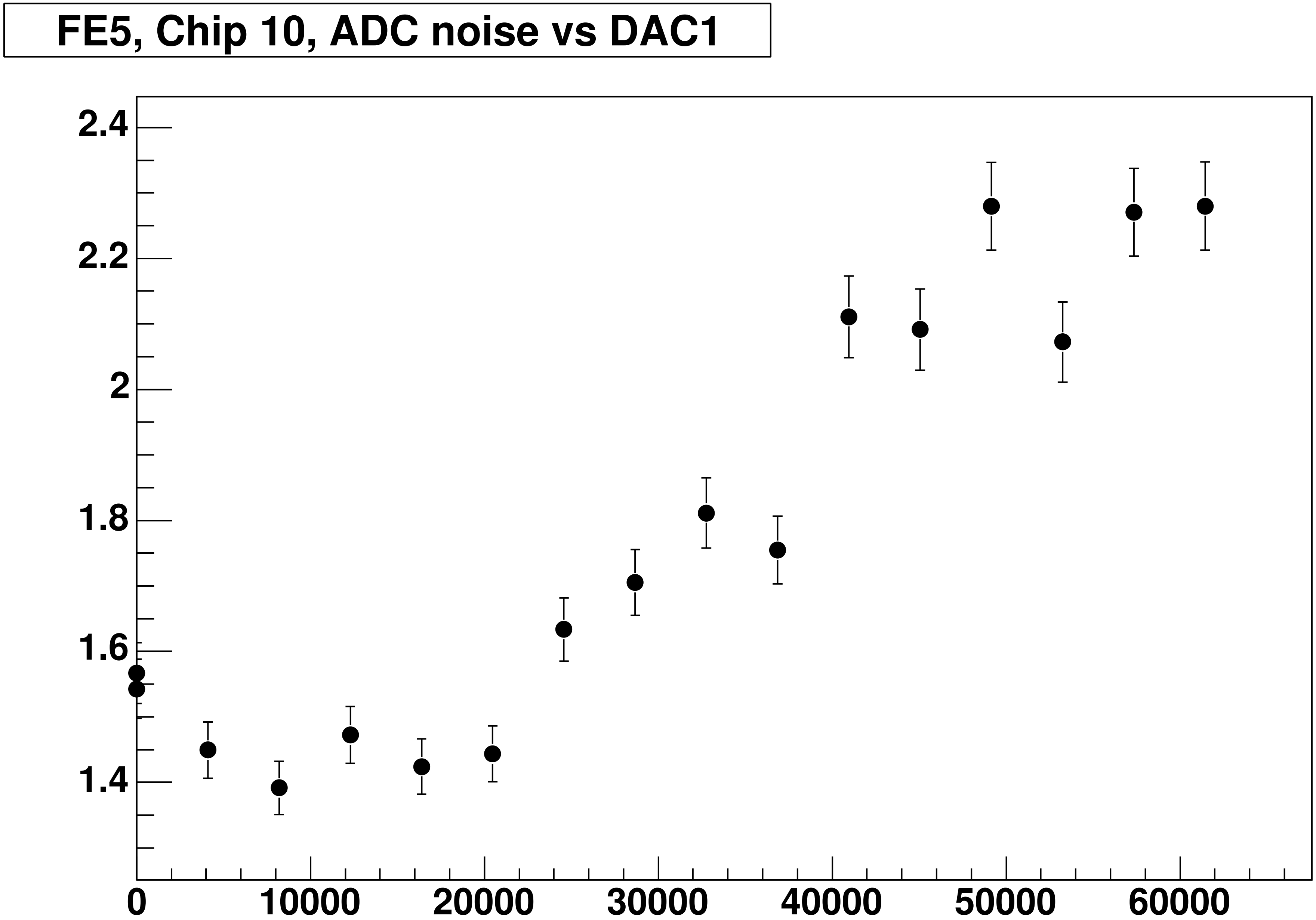

FE5, Chip 10, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
0
10000
20000
30000
40000
50000
60000

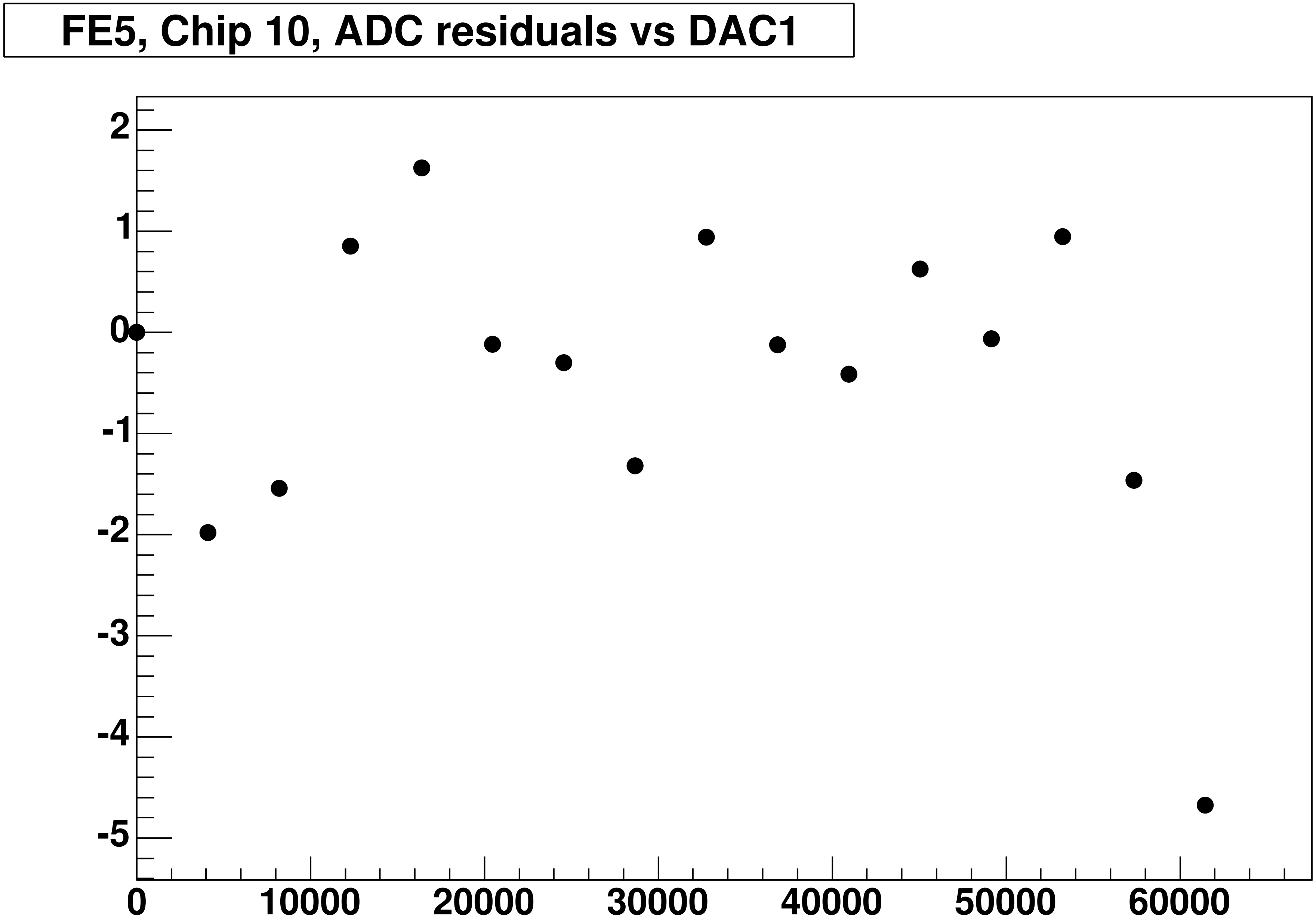


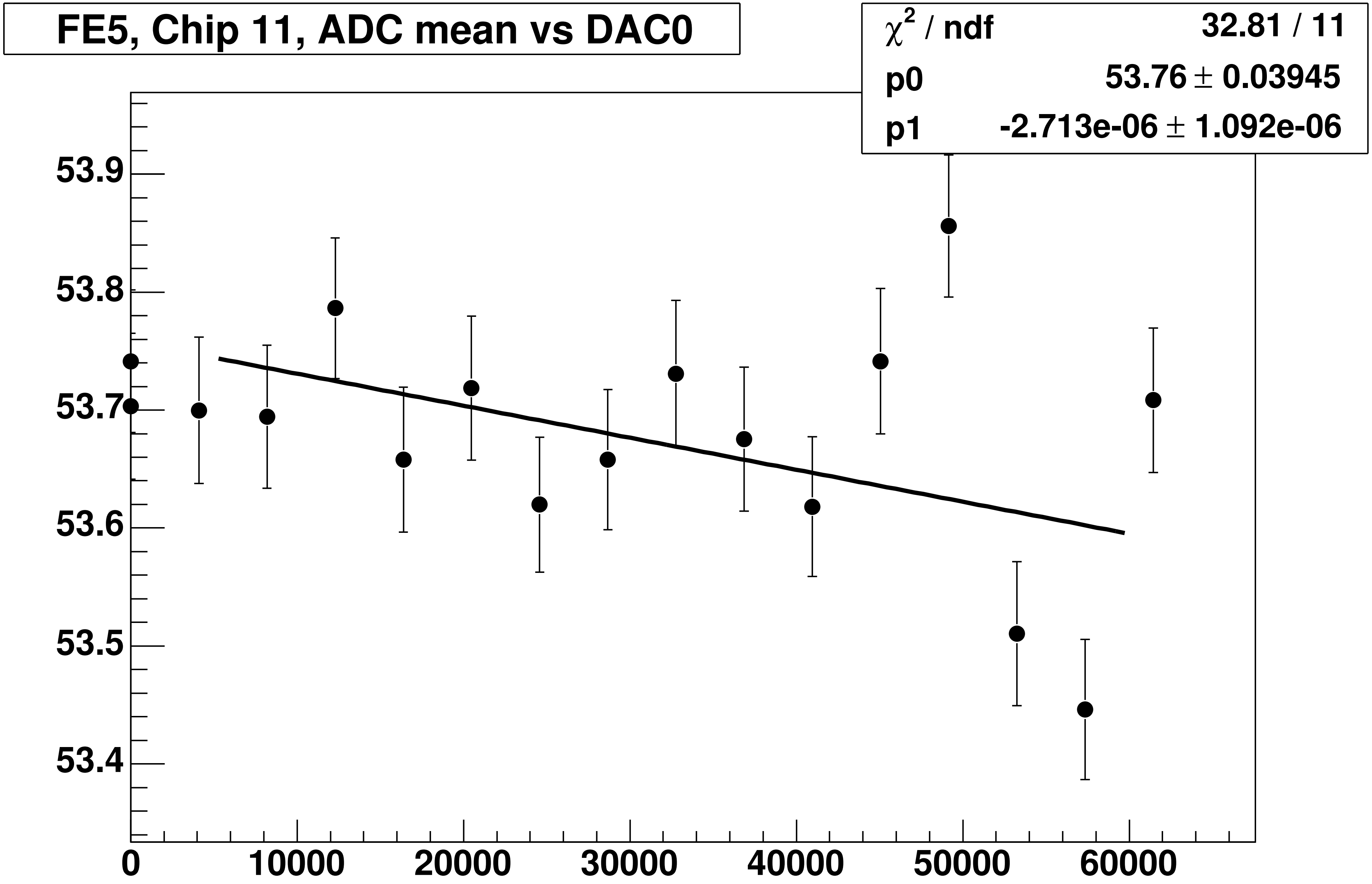
FE5, Chip 10, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

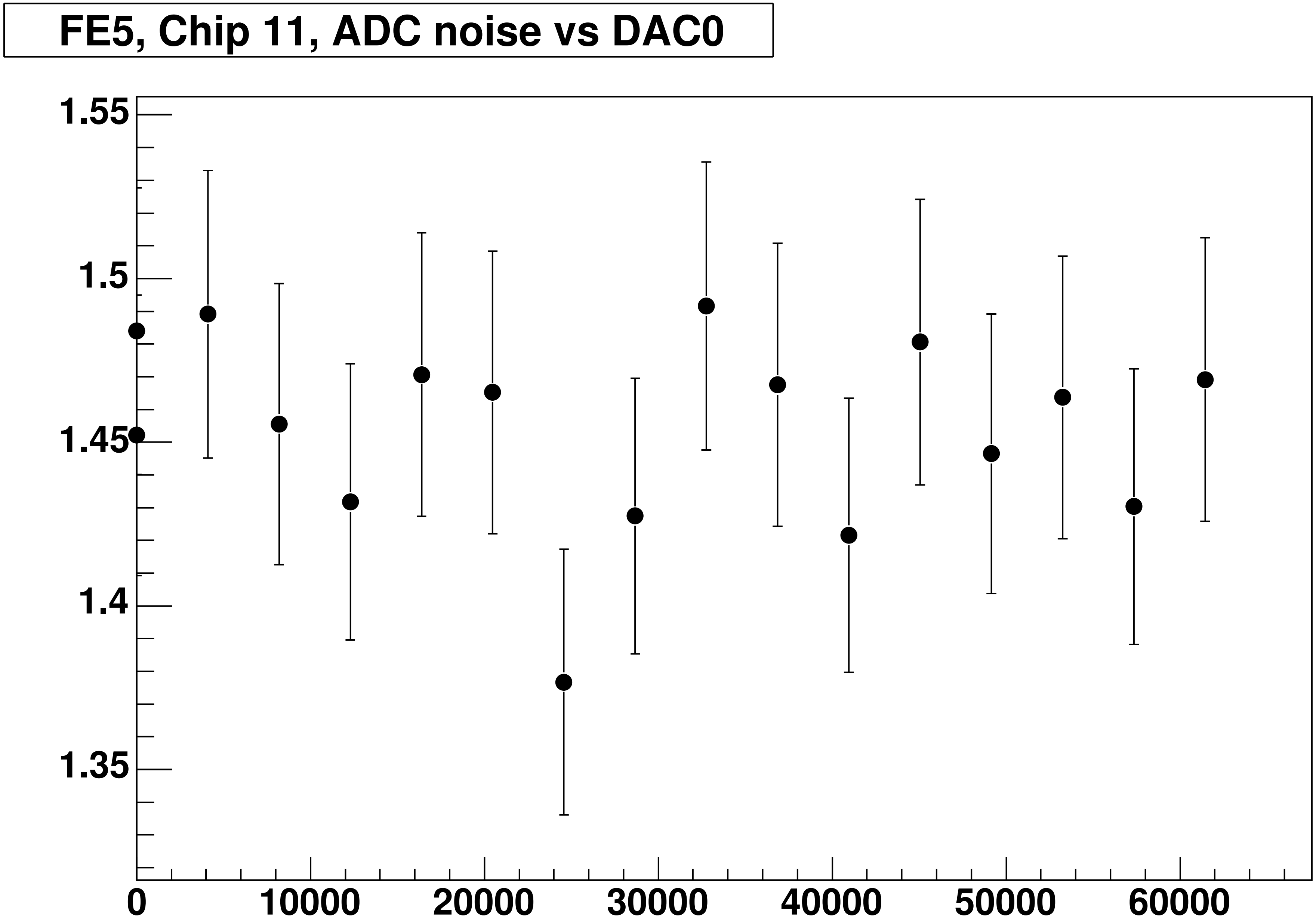


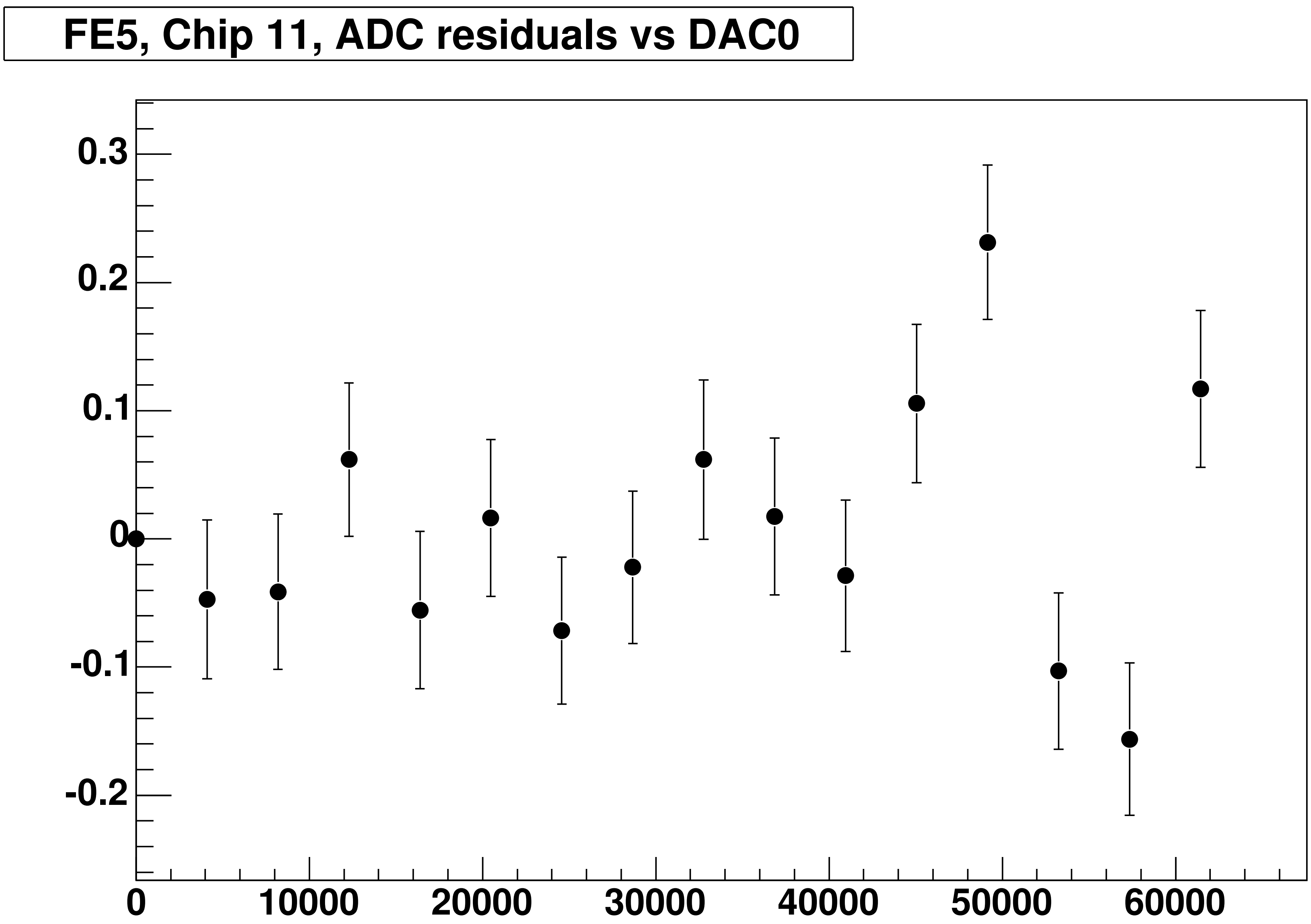
FE5, Chip 10, ADC mean vs DAC1
χ^2 / ndf 2612 / 11
p0 51.91 ± 0.04244
p1 0.4498 ± 1.35e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

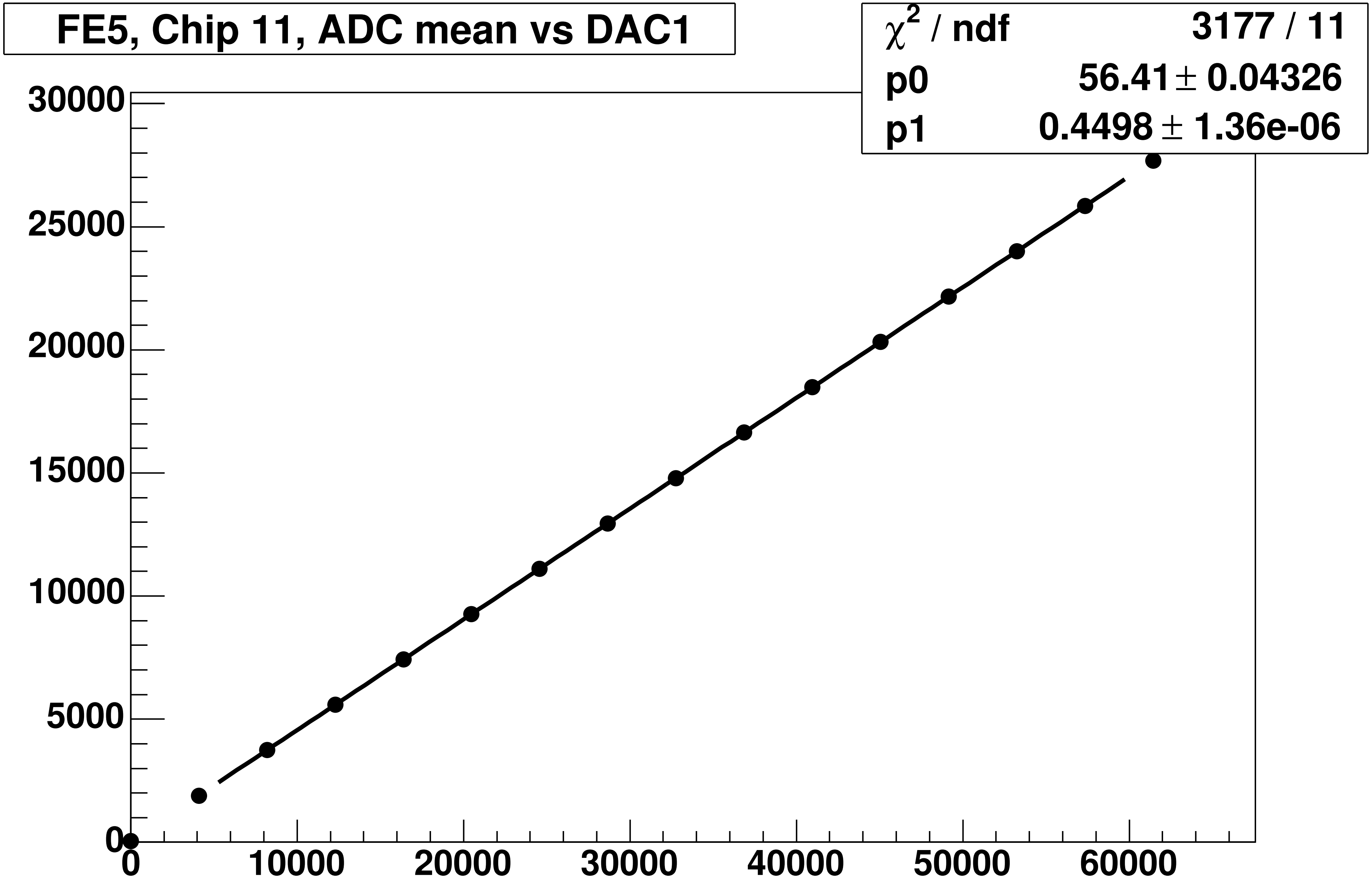

FE5, Chip 10, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

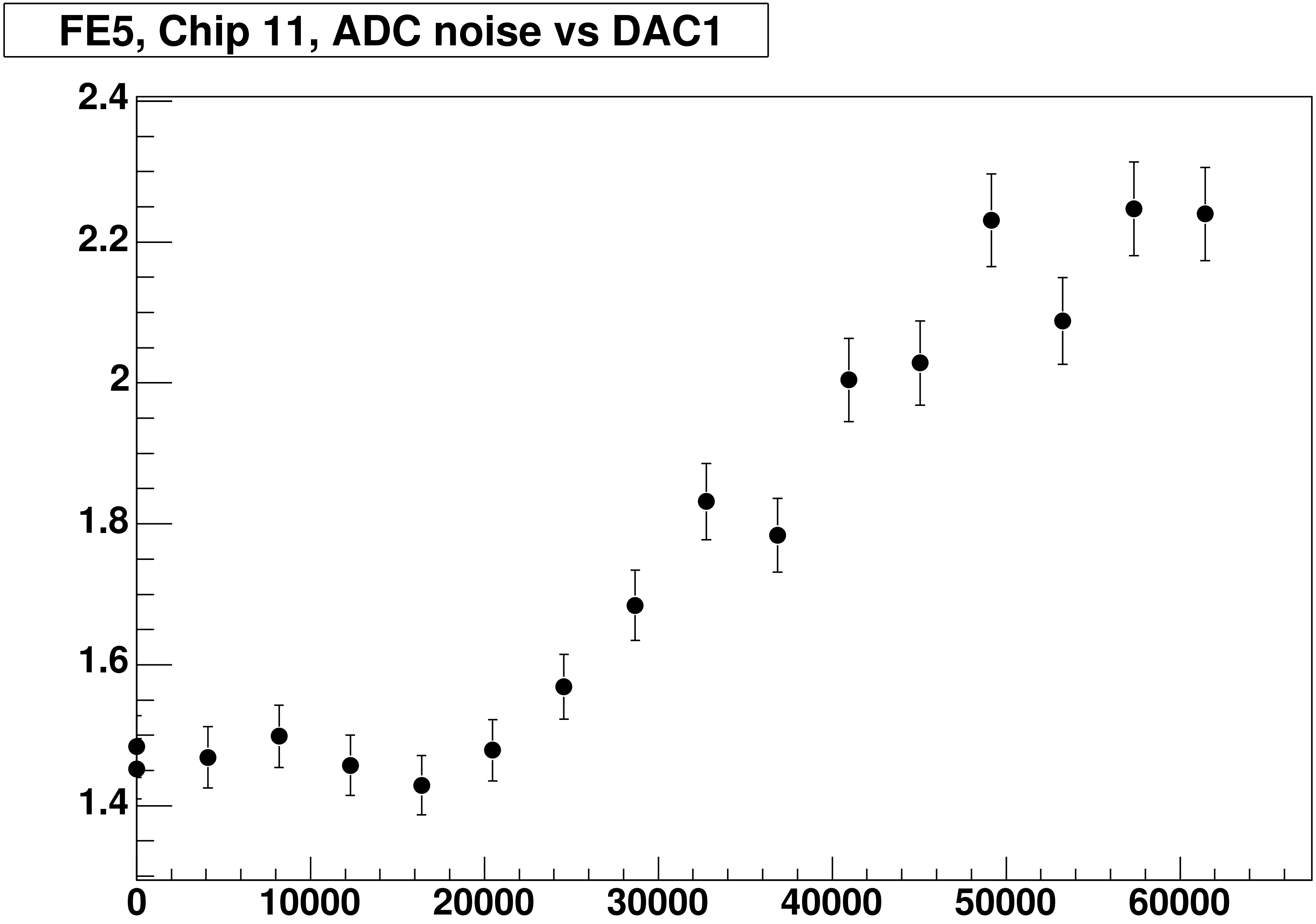

FE5, Chip 10, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

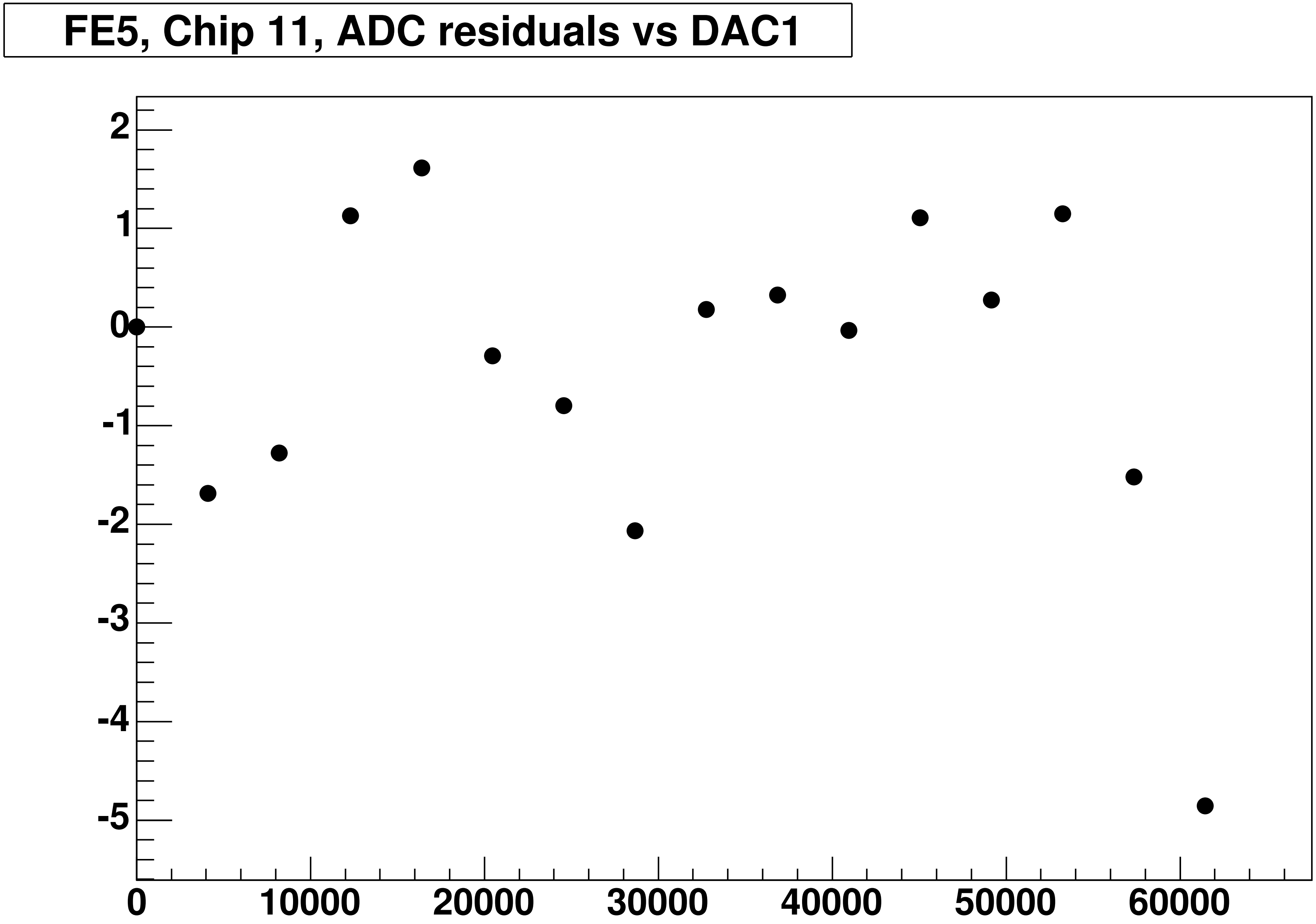

FE5, Chip 11, ADC mean vs DAC0
χ^2 / ndf 32.81 / 11
p0 53.76 ± 0.03945
p1 -2.713e-06 ± 1.092e-06
53.9
53.8
53.7
53.6
53.5
53.4
0
10000
20000
30000
40000
50000
60000


FE5, Chip 11, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

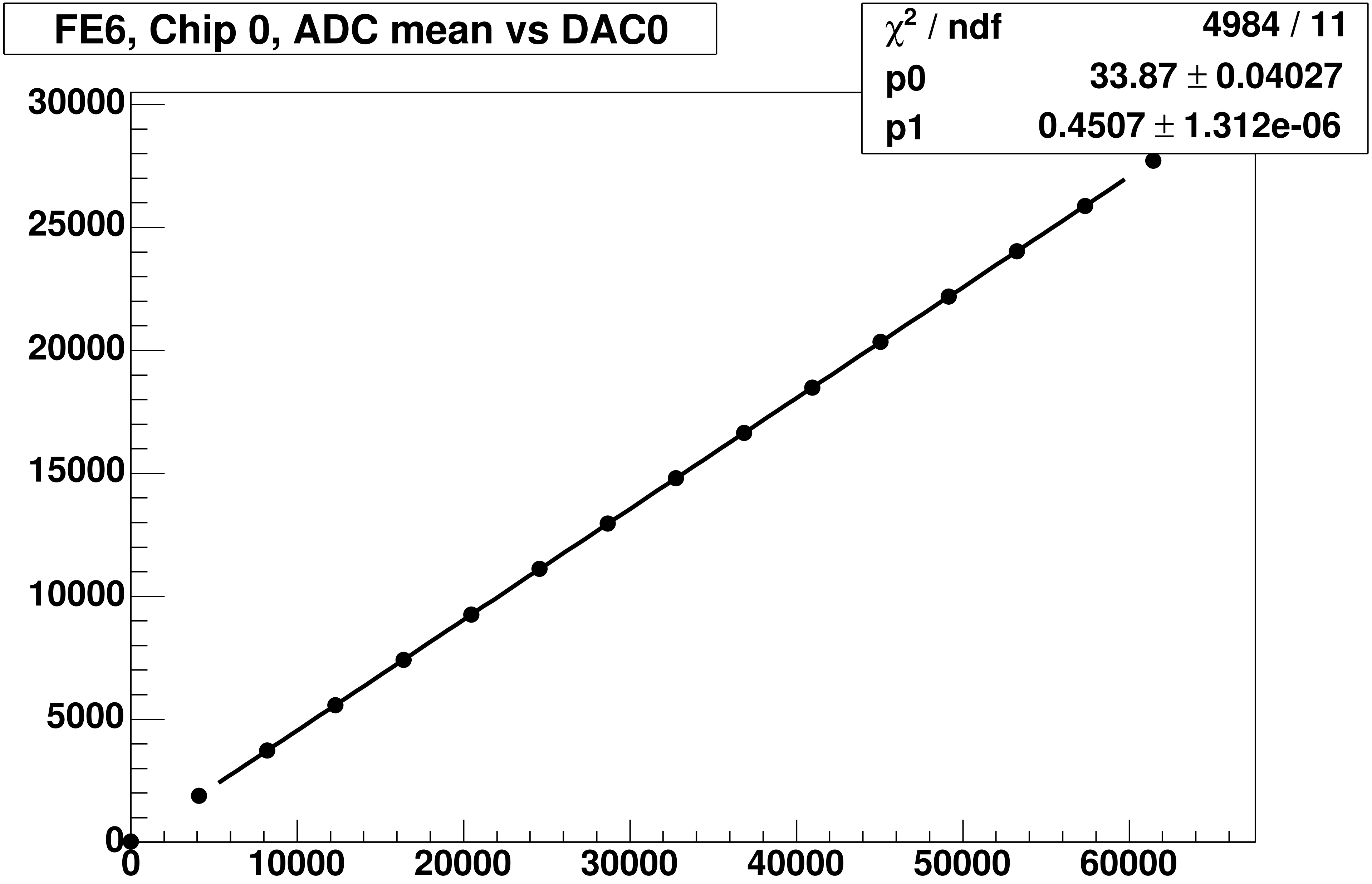

FE5, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE5, Chip 11, ADC mean vs DAC1
χ2 / ndf 3177 / 11
p0 56.41 ± 0.04326
p1 0.4498 ± 1.36e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

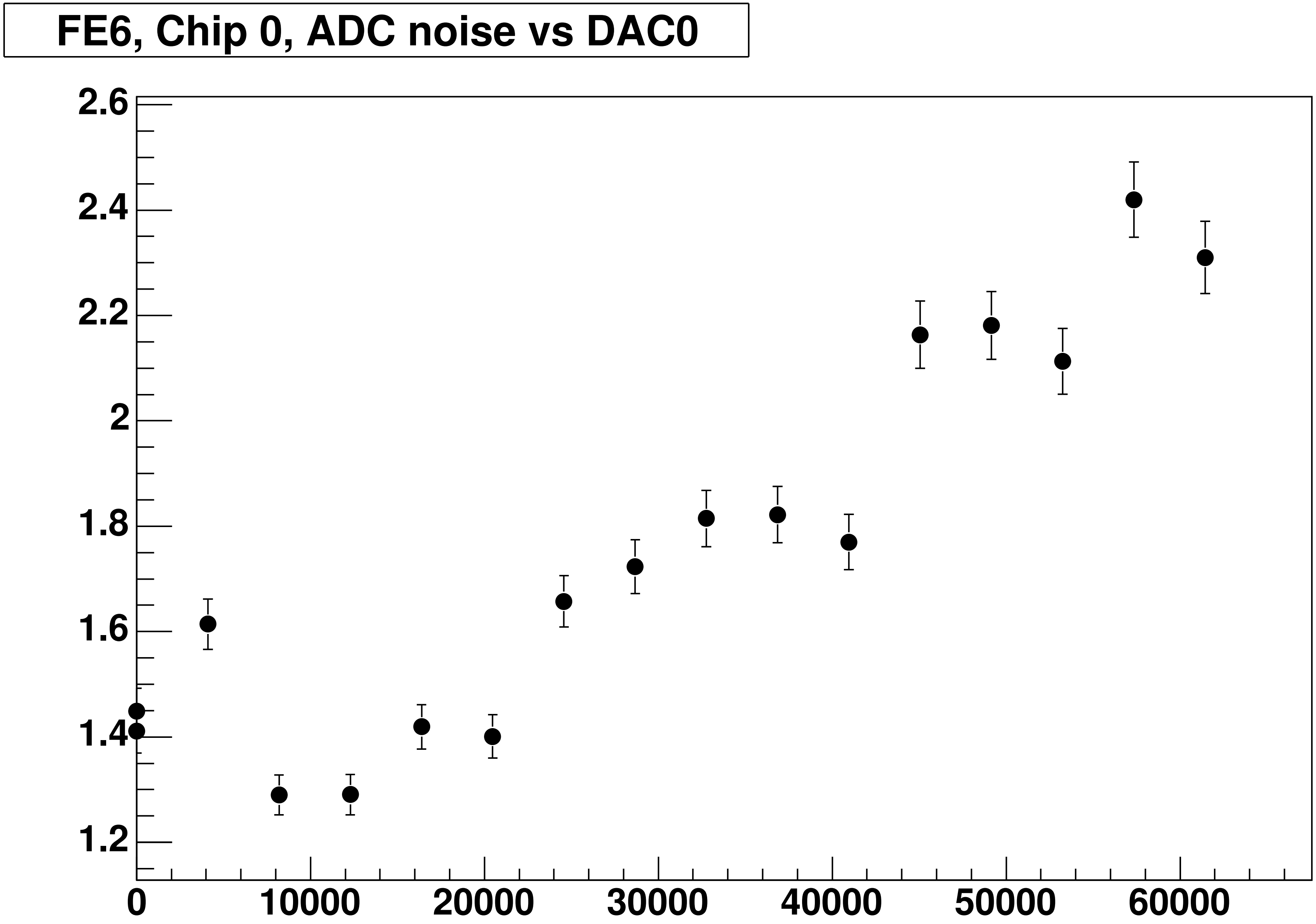

FE5, Chip 11, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000



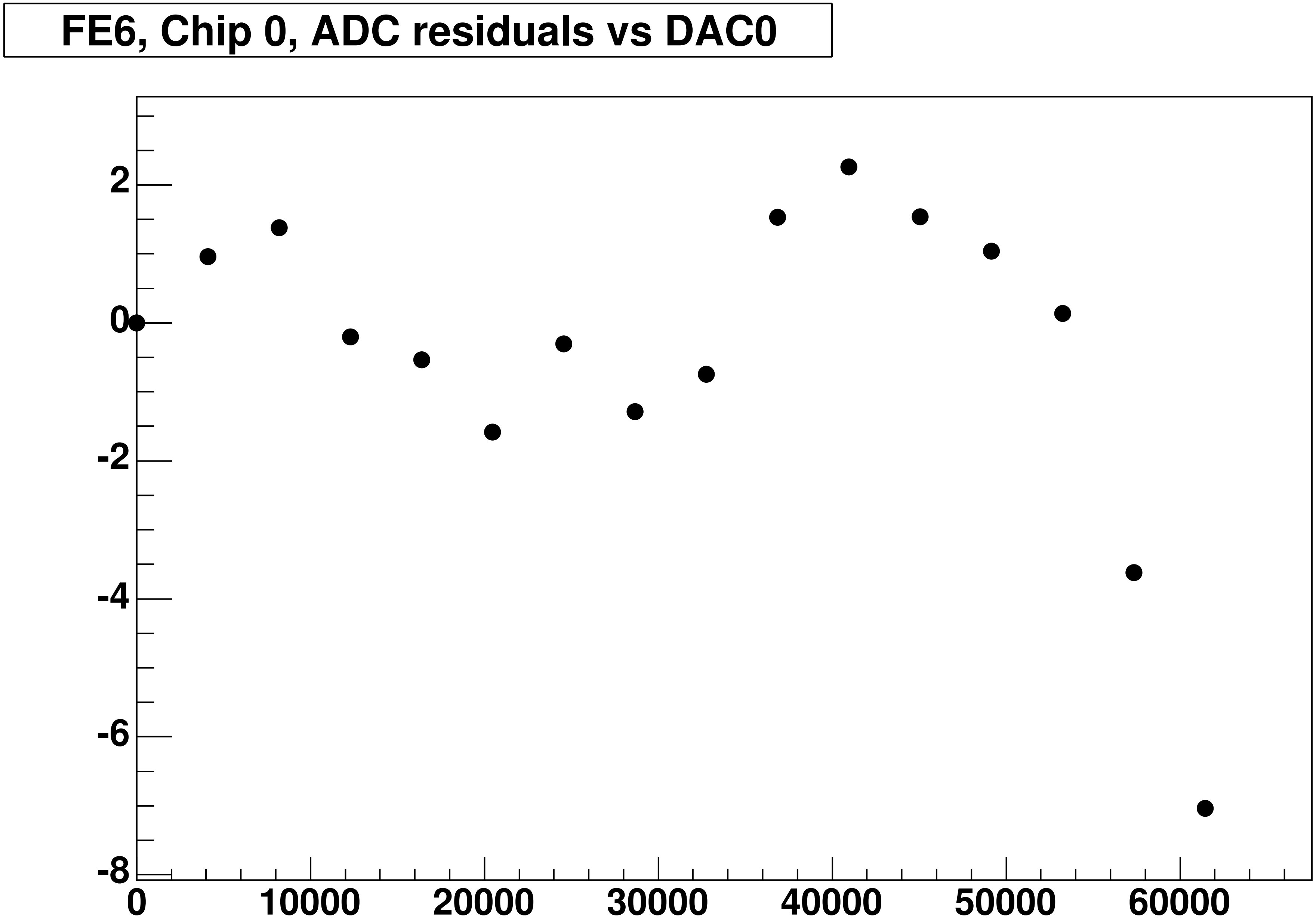
FE5, Chip 11, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

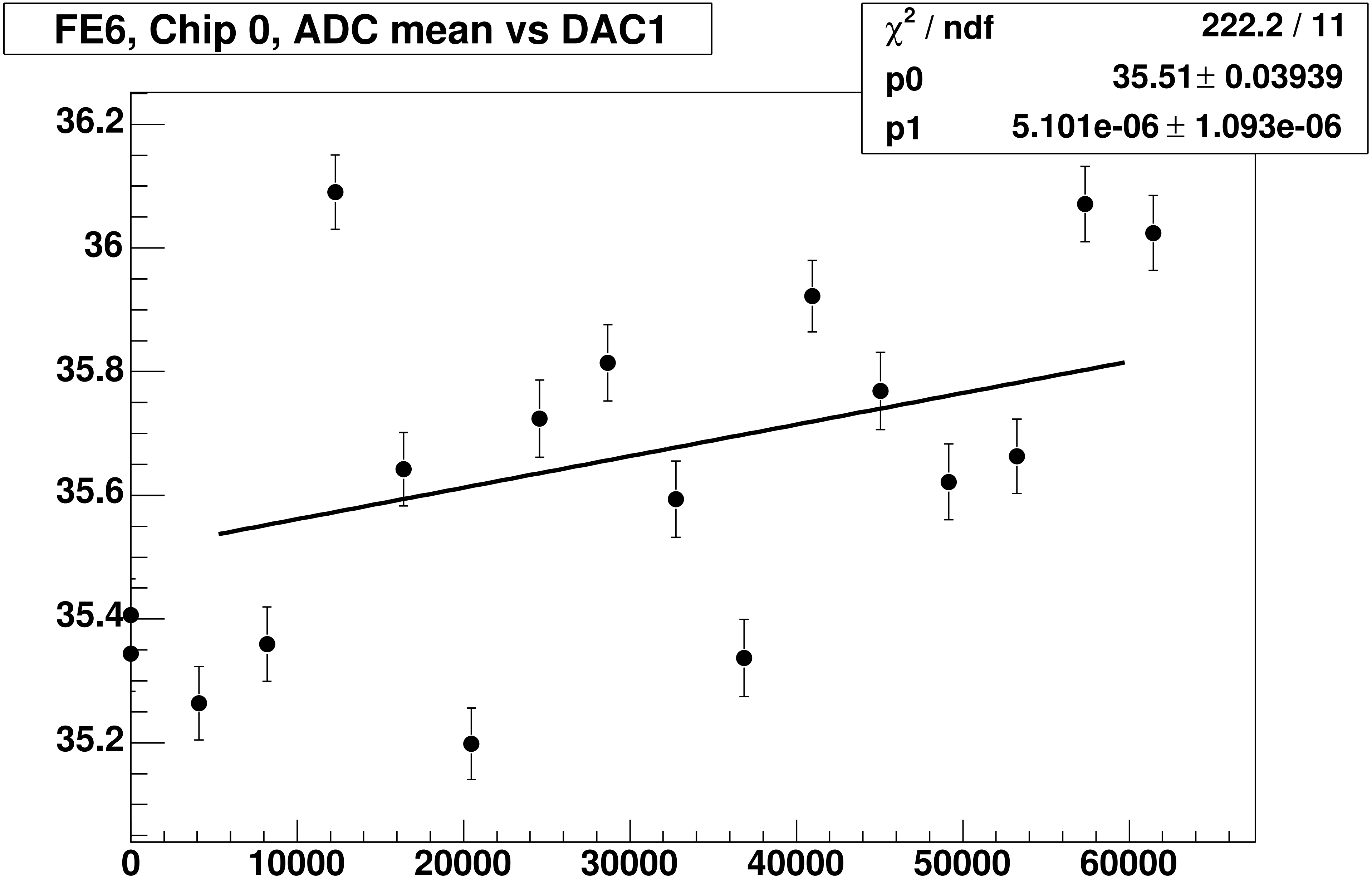


FE6, Chip 0, ADC mean vs DAC0
χ^2 / ndf 4984 / 11
p0 33.87 ± 0.04027
p1 0.4507 ± 1.312e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

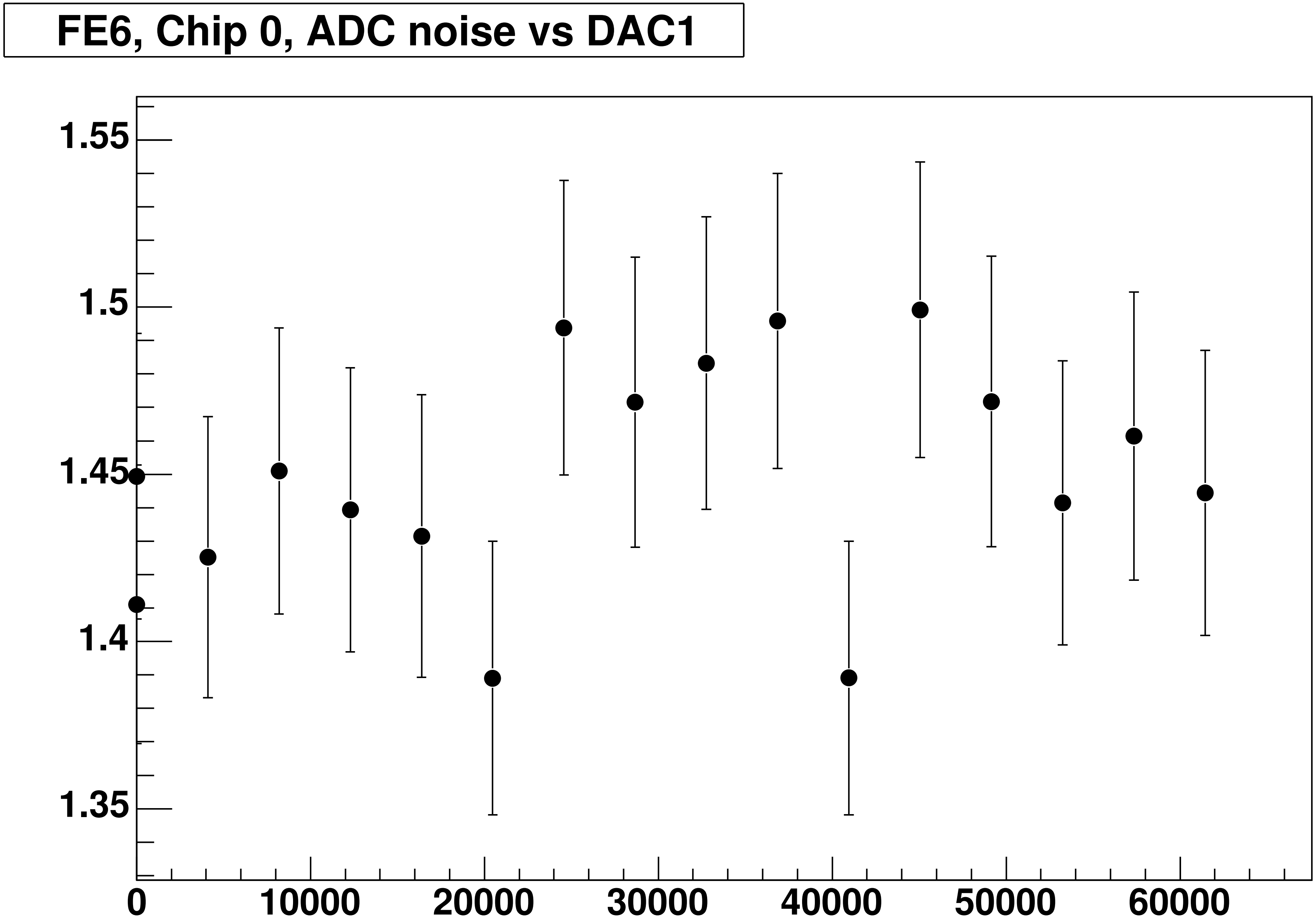


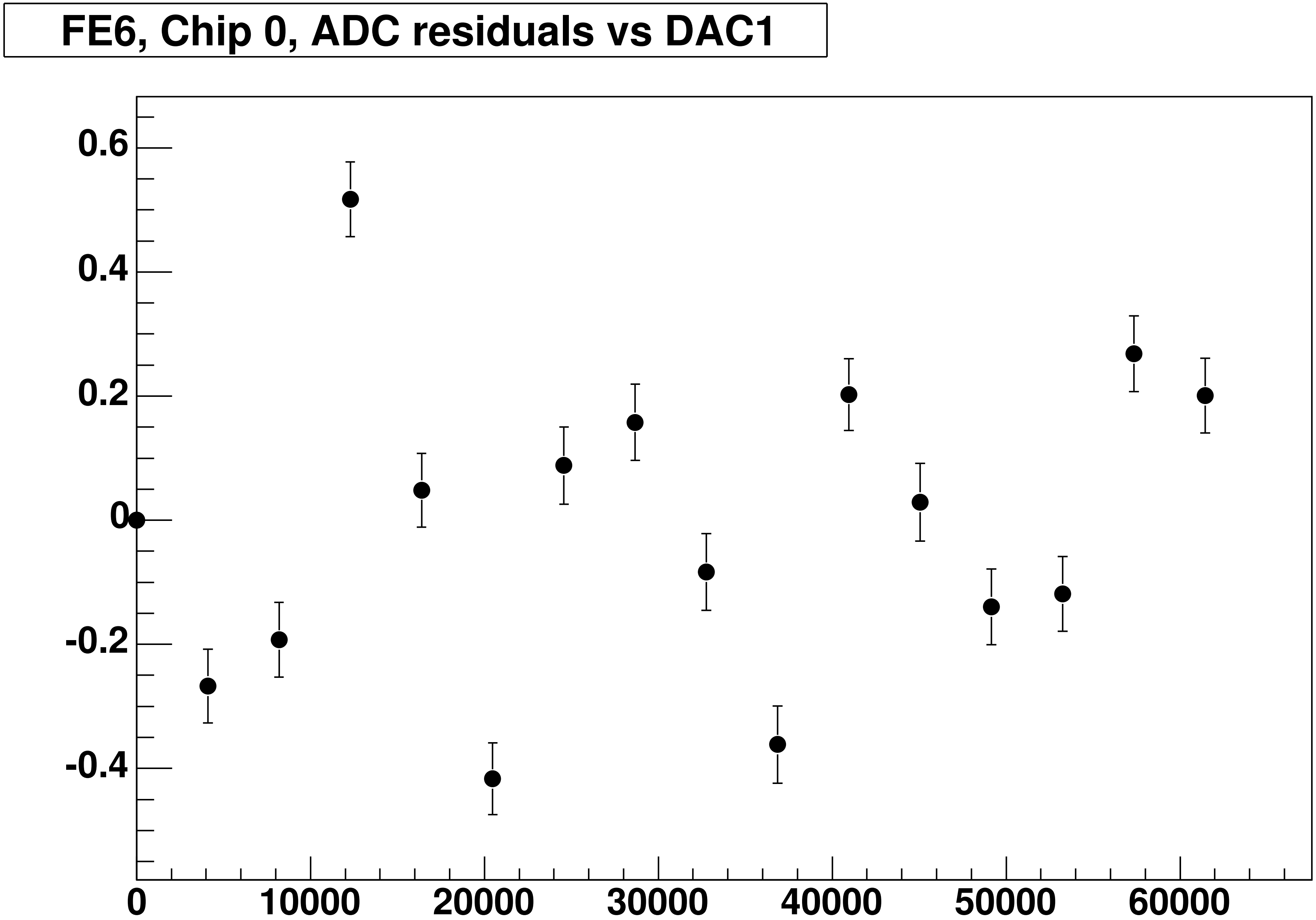
FE6, Chip 0, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

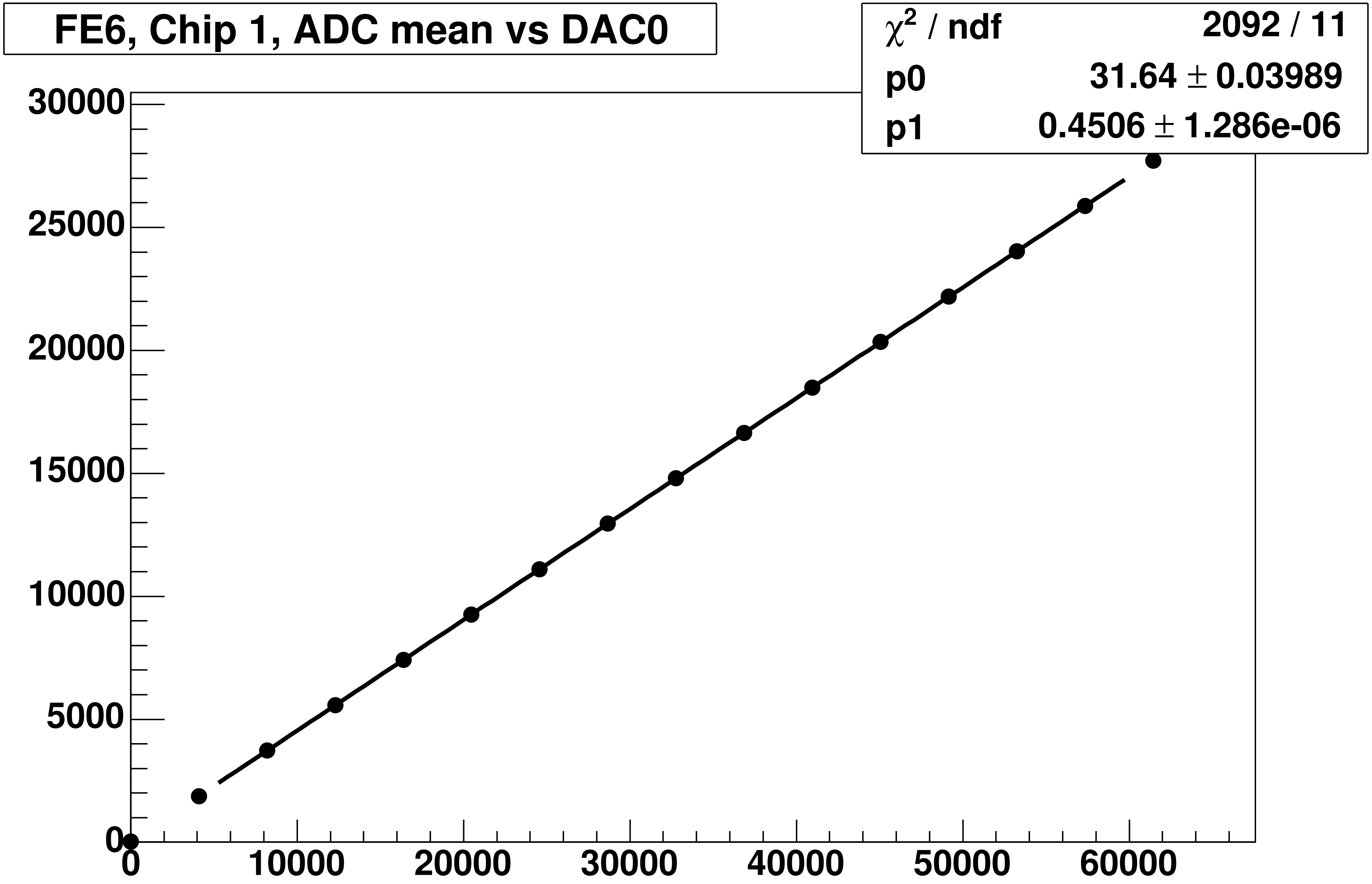

FE6, Chip 0, ADC residuals vs DAC0
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000

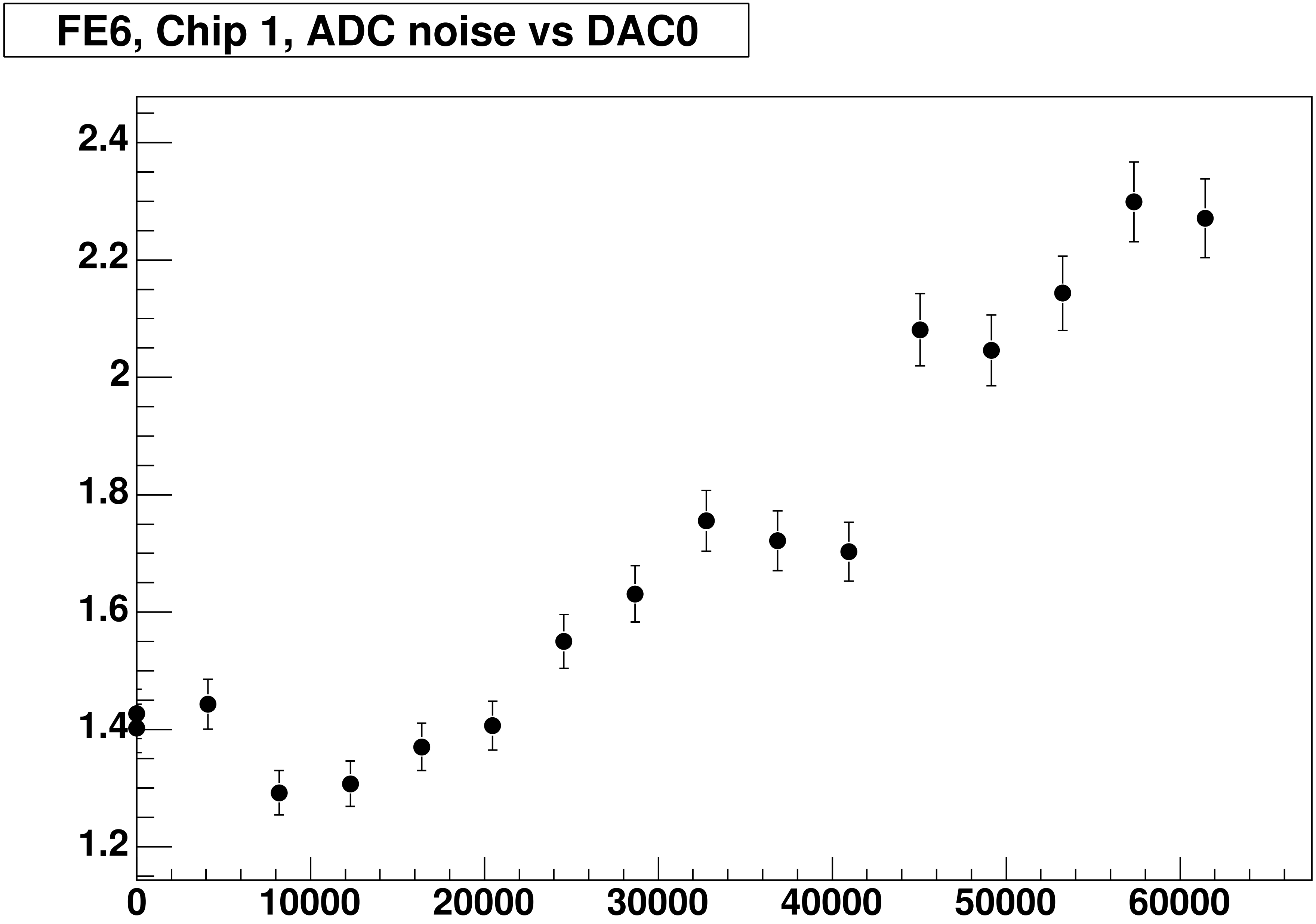


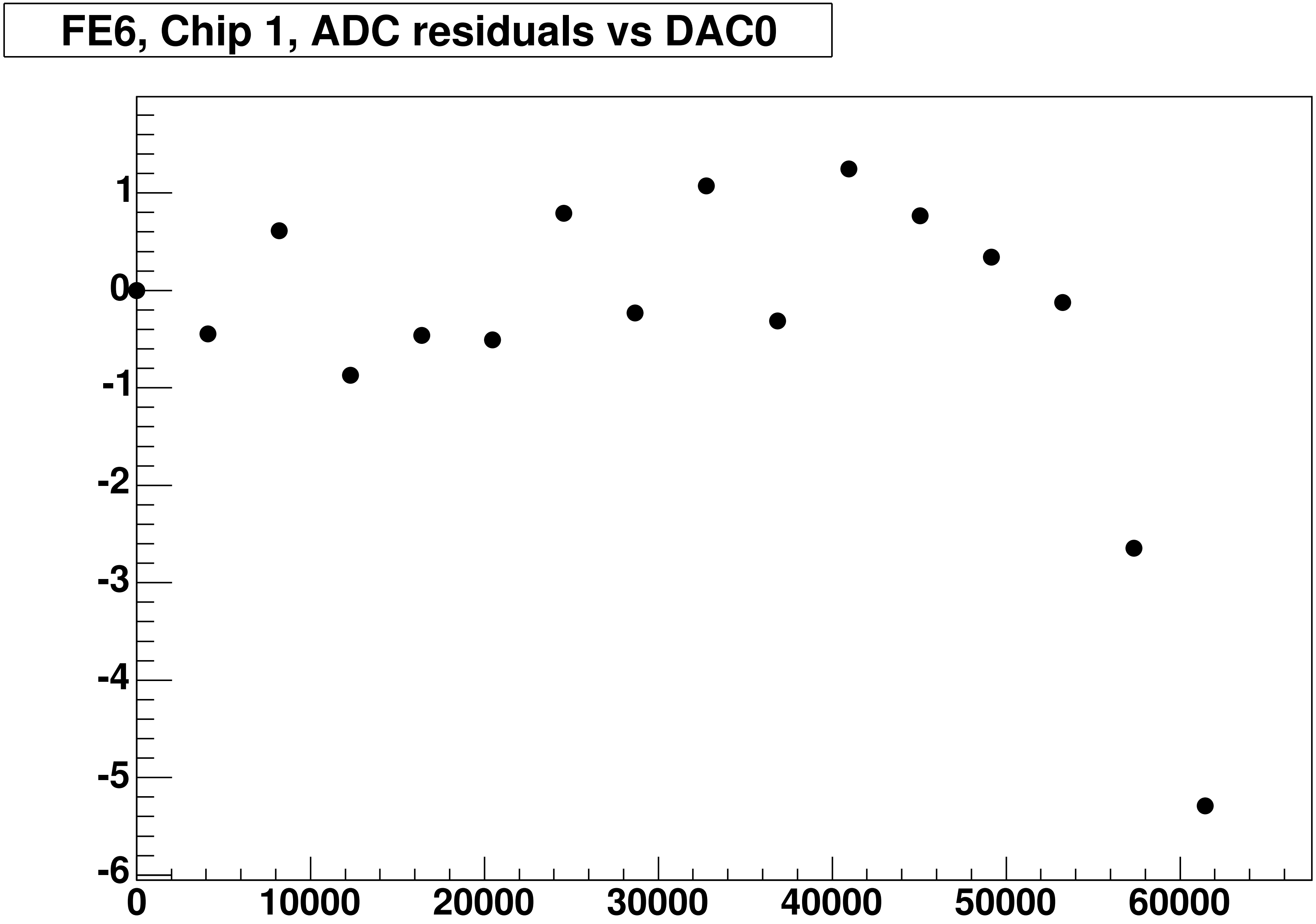
FE6, Chip 0, ADC mean vs DAC1
χ2 / ndf 222.2 / 11
p0 35.51 ± 0.03939
p1 5.101e-06 ± 1.093e-06
36.2
36
35.8
35.6
35.4
35.2
0
10000
20000
30000
40000
50000
60000

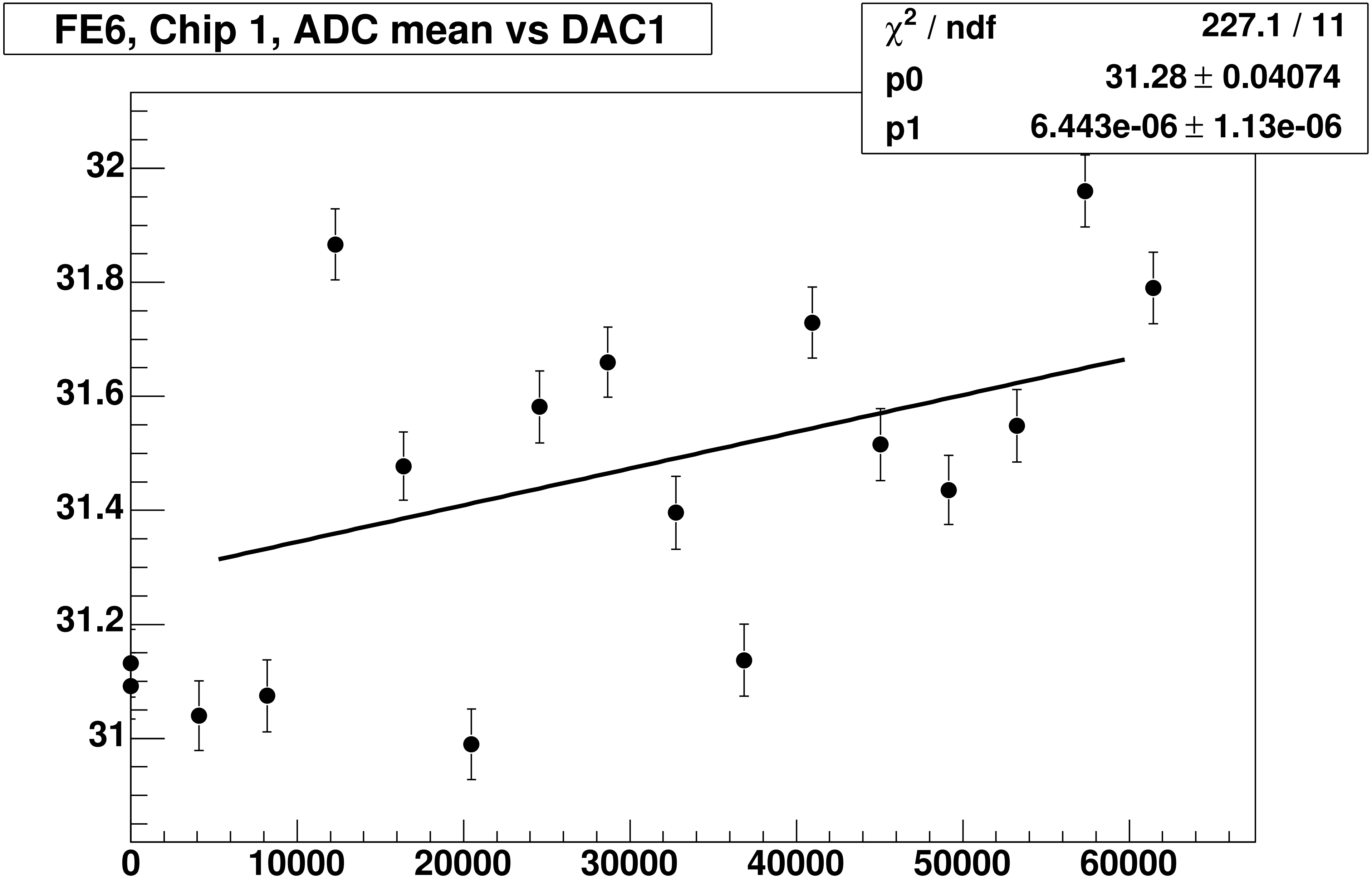

FE6, Chip 0, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

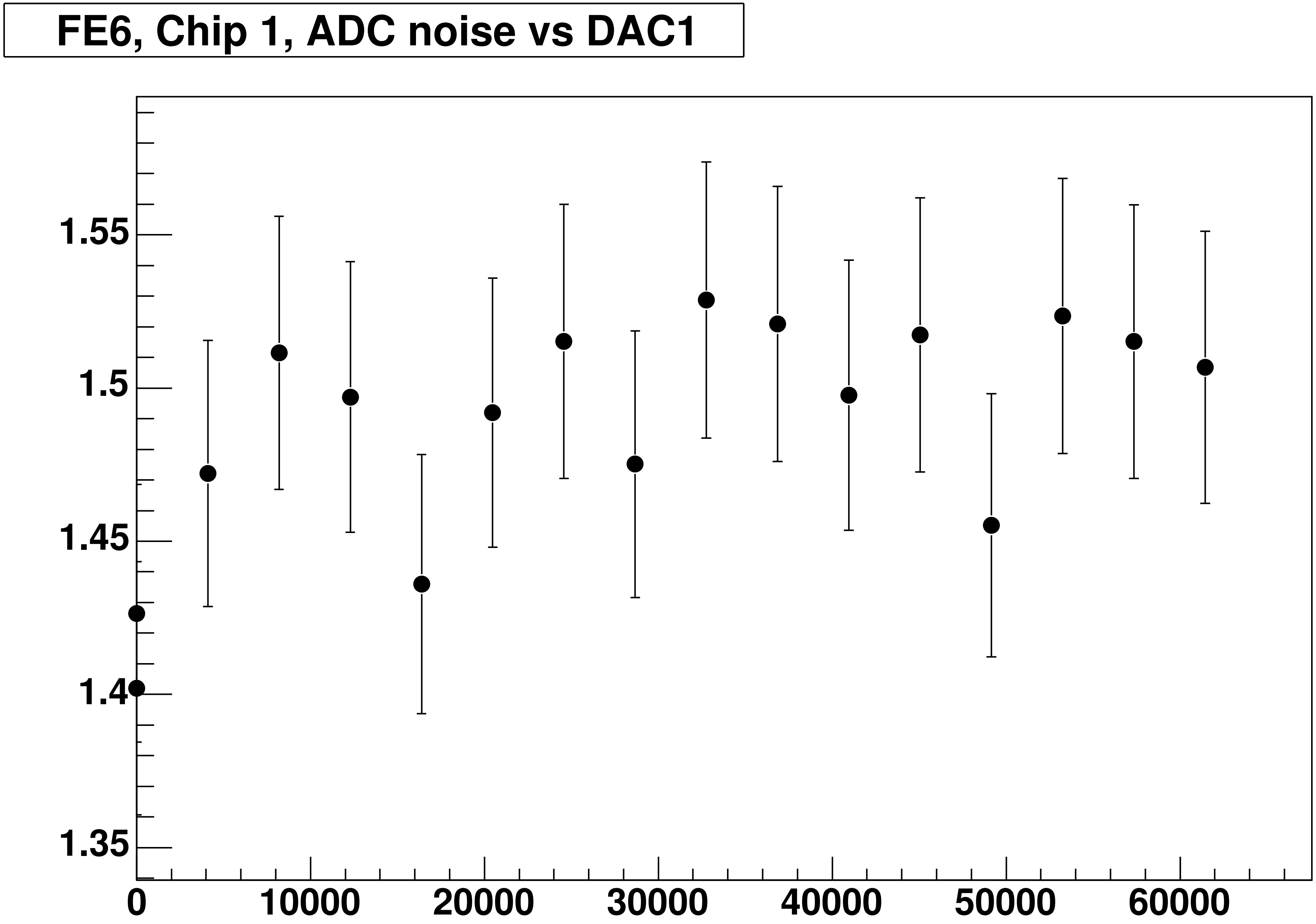

FE6, Chip 1, ADC mean vs DAC0
χ^2 / ndf 2092 / 11
p0 31.64 ± 0.03989
p1 0.4506 ± 1.286e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

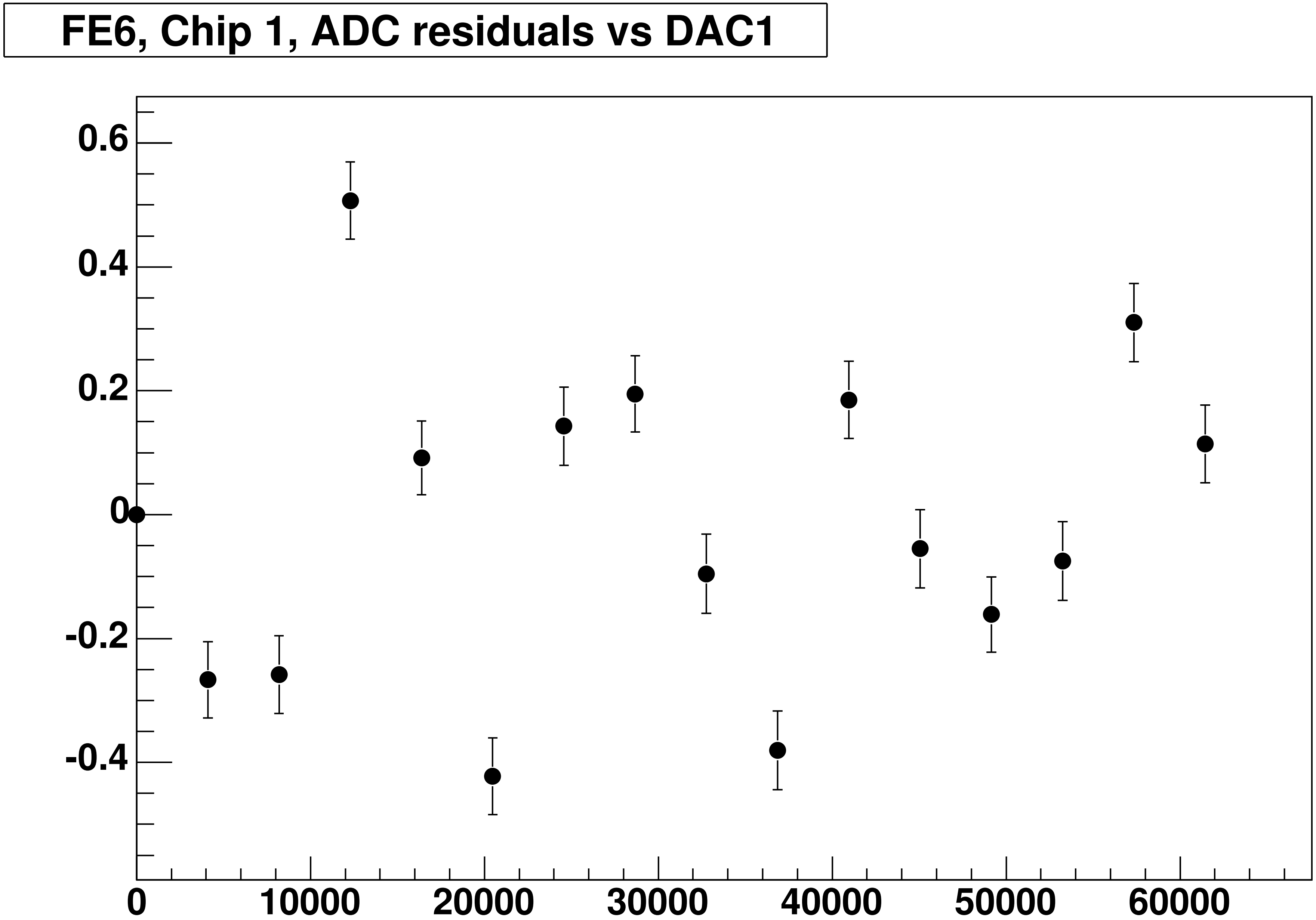

FE6, Chip 1, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


FE6, Chip 1, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

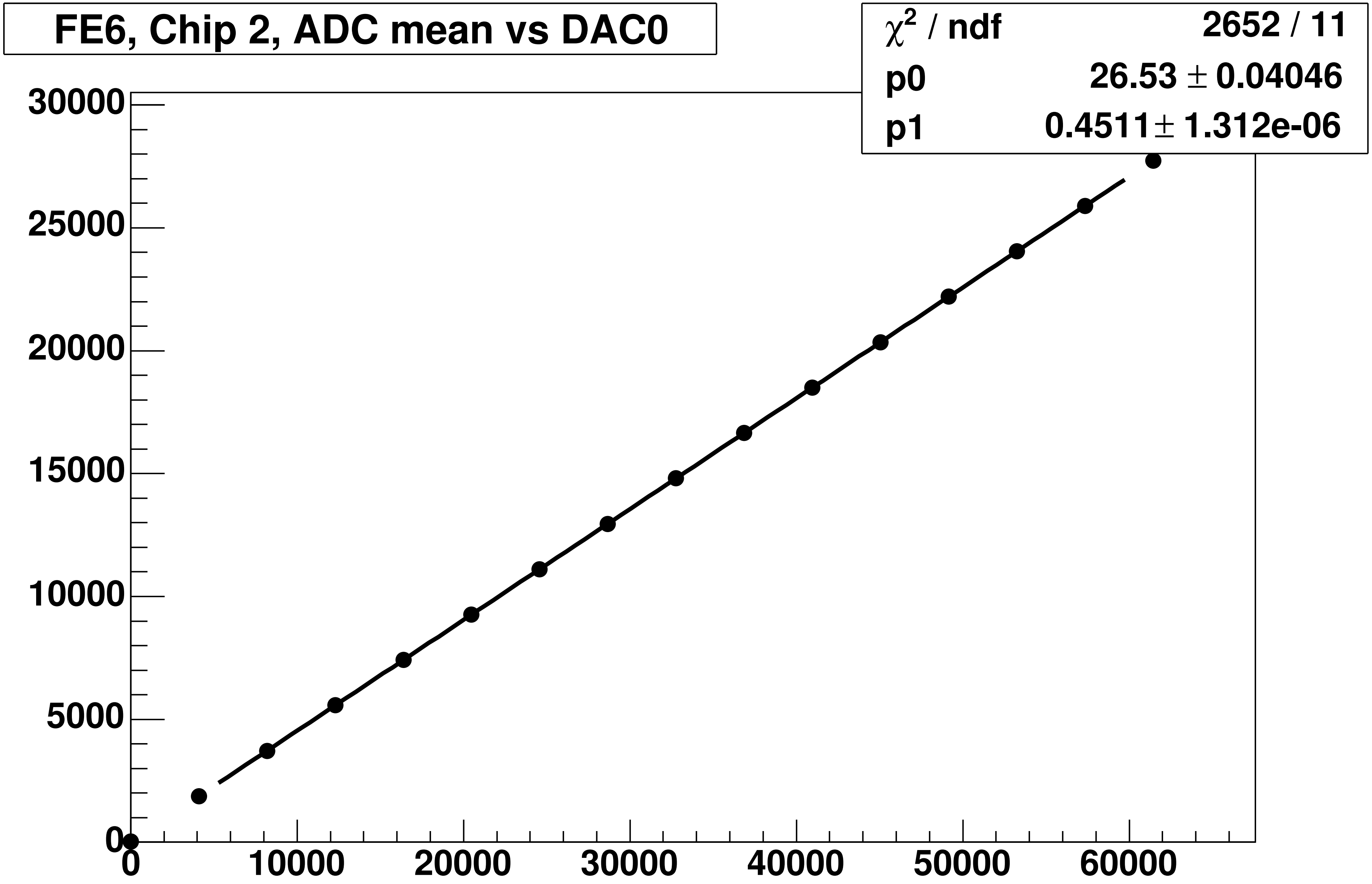


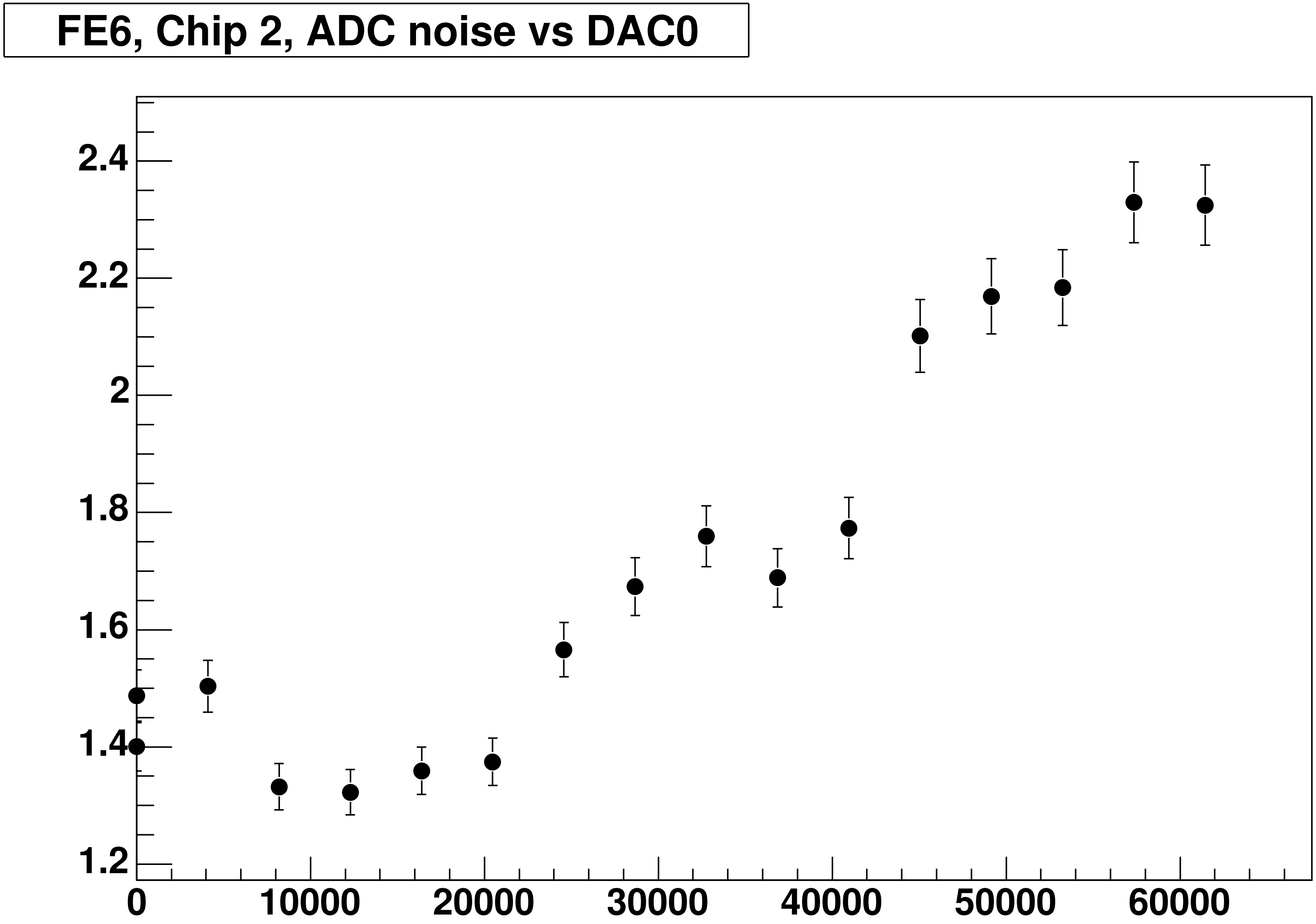
FE6, Chip 1, ADC mean vs DAC1
χ^2 / ndf 227.1 / 11
p0 31.28 ± 0.04074
p1 6.443e-06 ± 1.13e-06
32
31.8
31.6
31.4
31.2
31
0
10000
20000
30000
40000
50000
60000

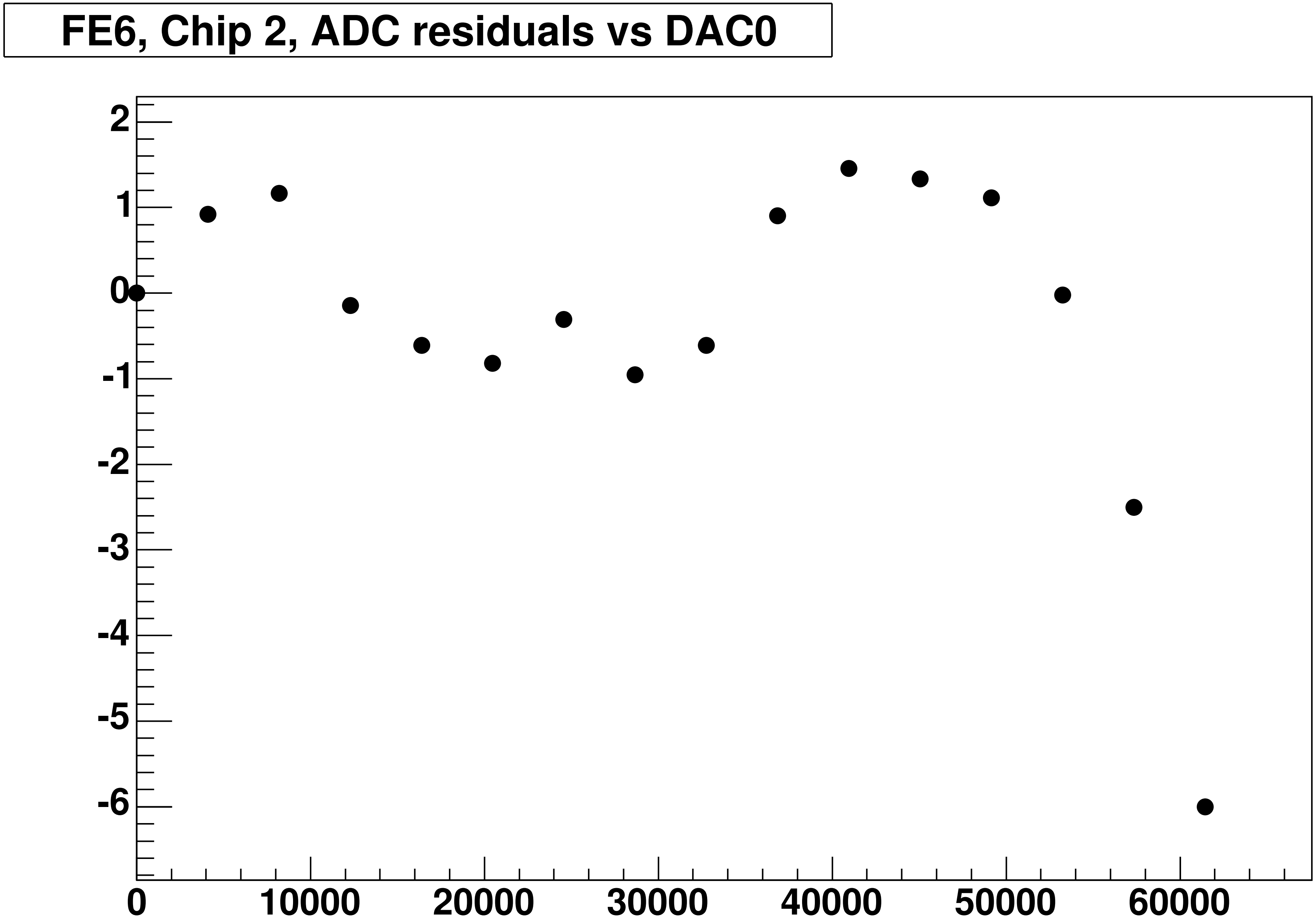

FE6, Chip 1, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000



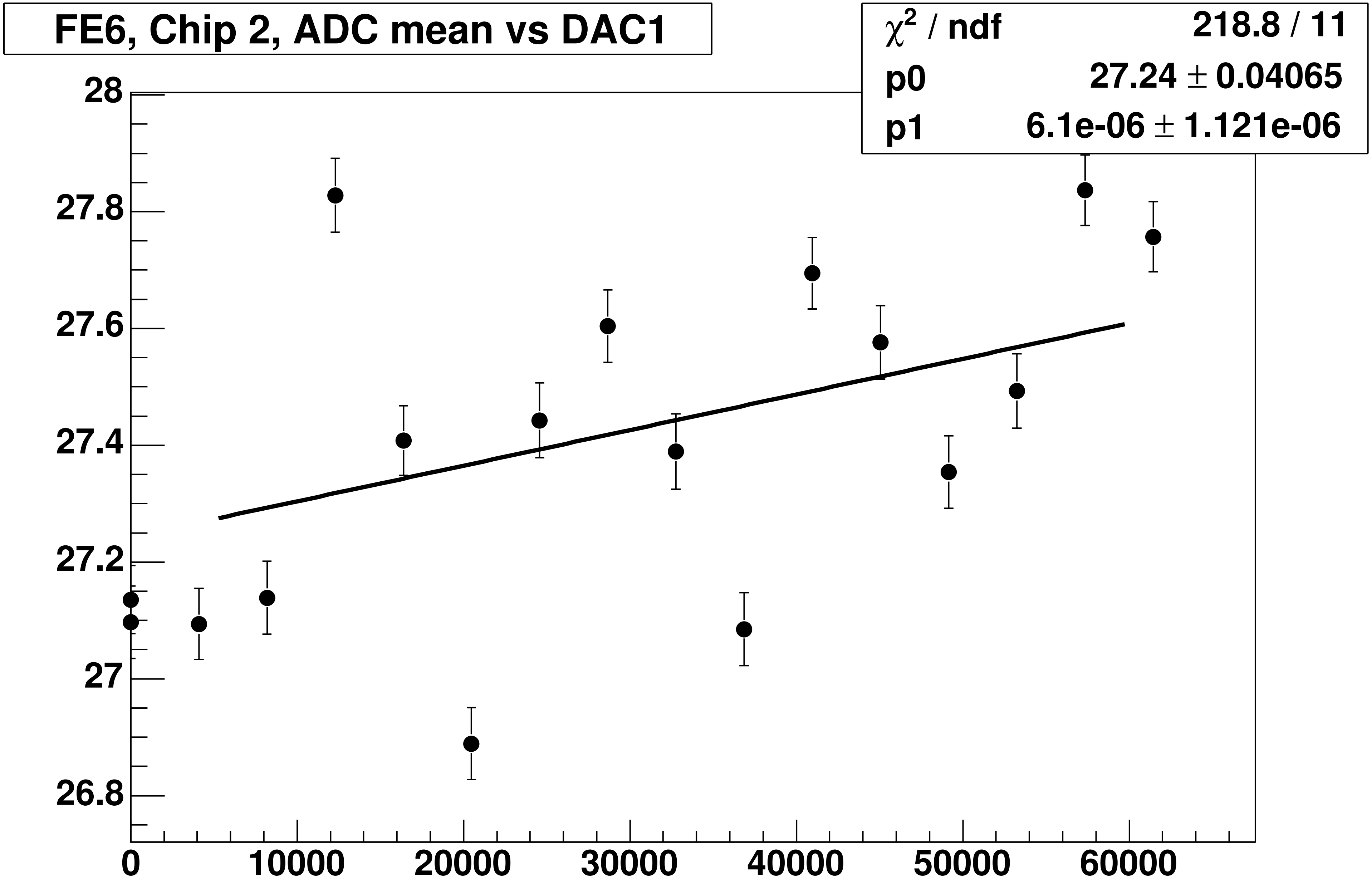
FE6, Chip 1, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000


FE6, Chip 2, ADC mean vs DAC0
χ^2 / ndf 2652 / 11
p0 26.53 ± 0.04046
p1 0.4511 ± 1.312e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

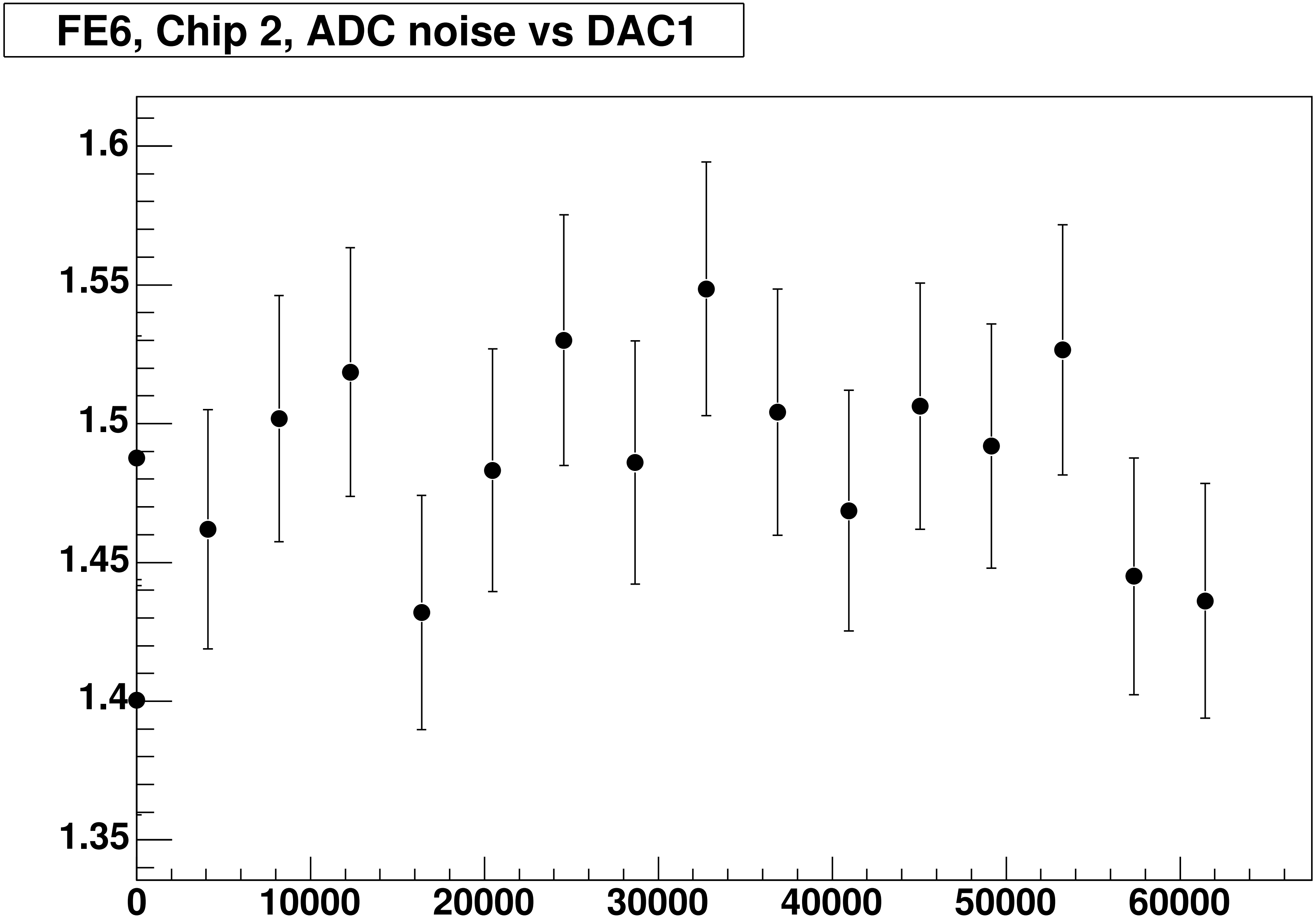

FE6, Chip 2, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

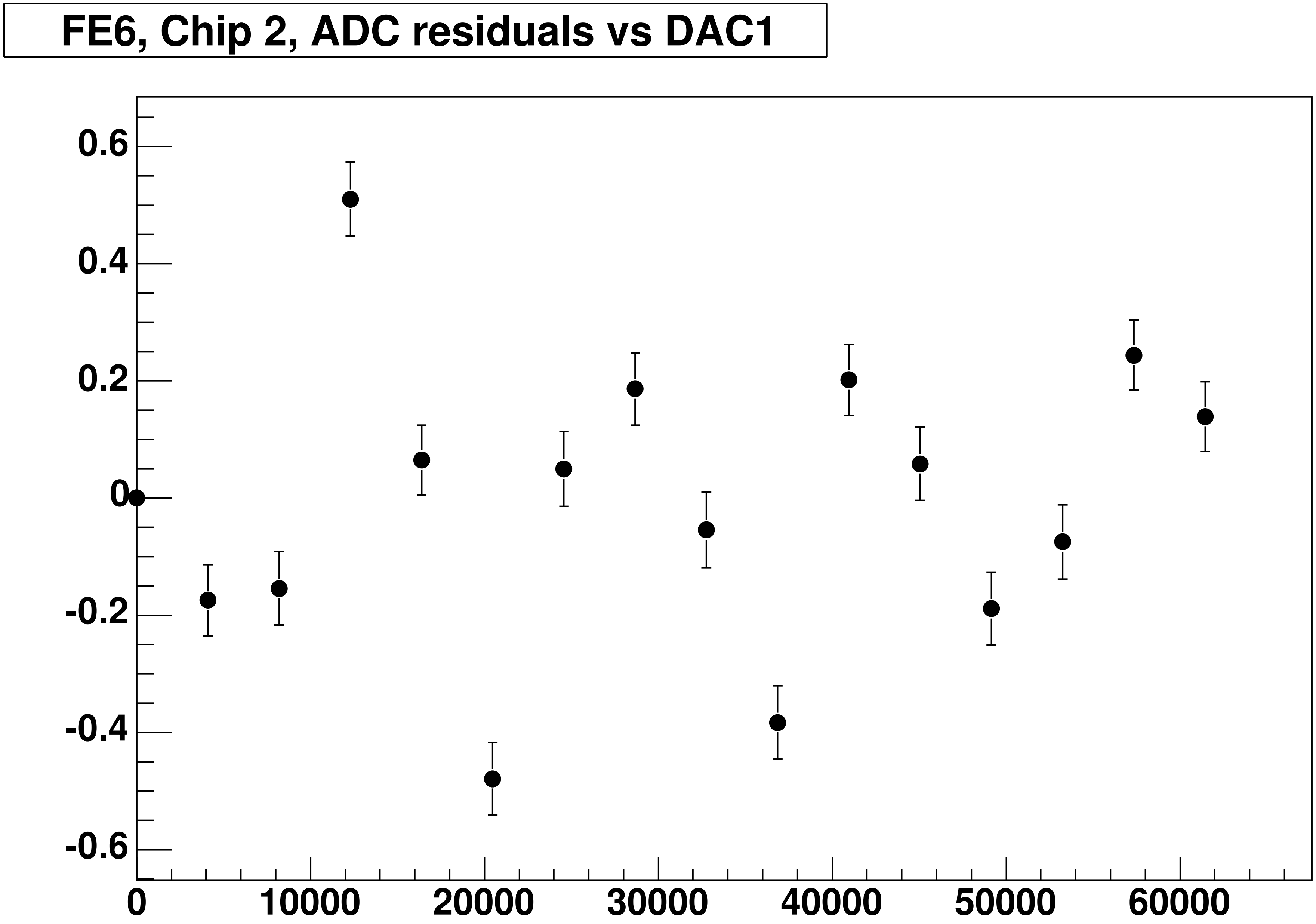


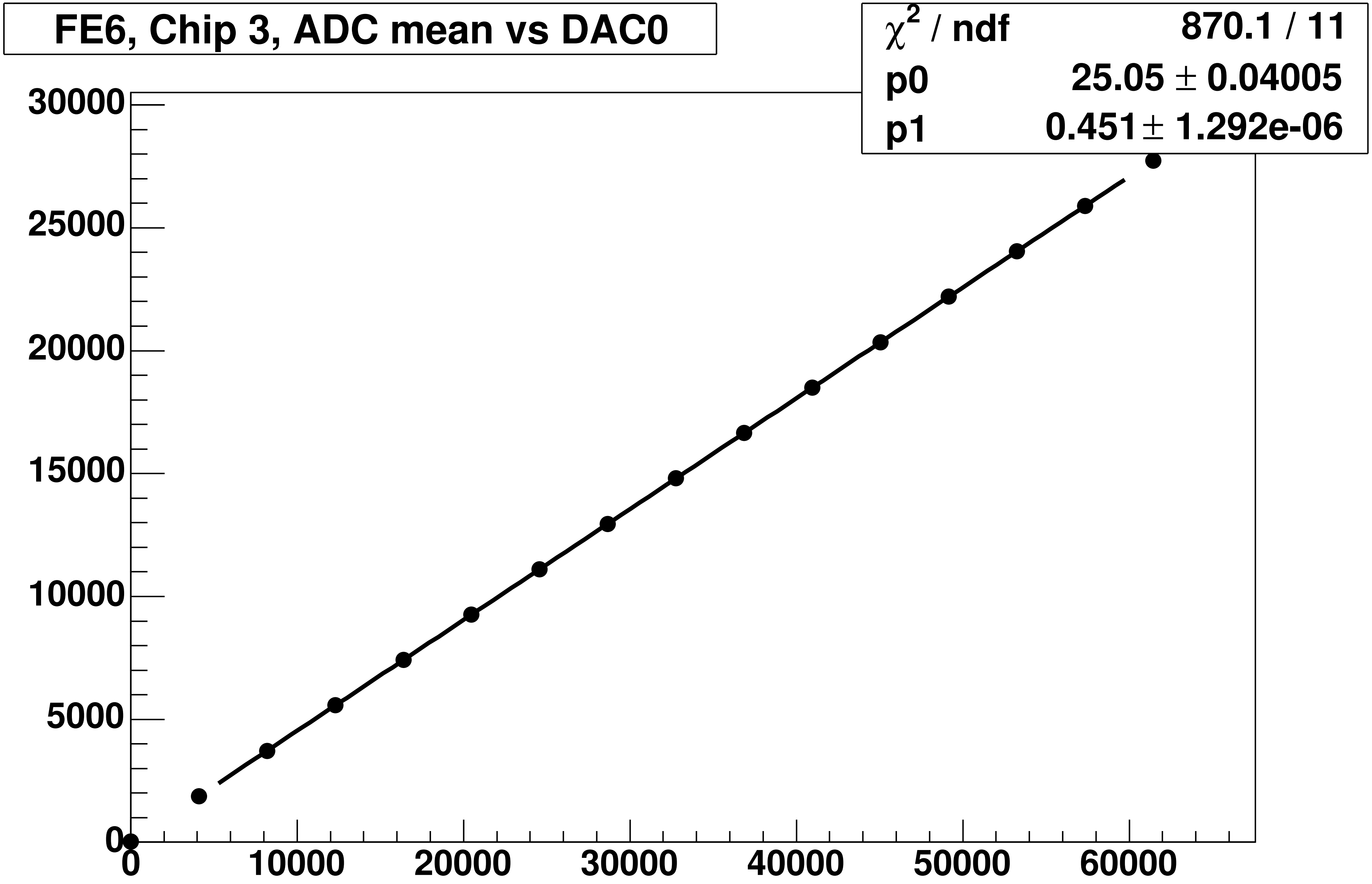
FE6, Chip 2, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



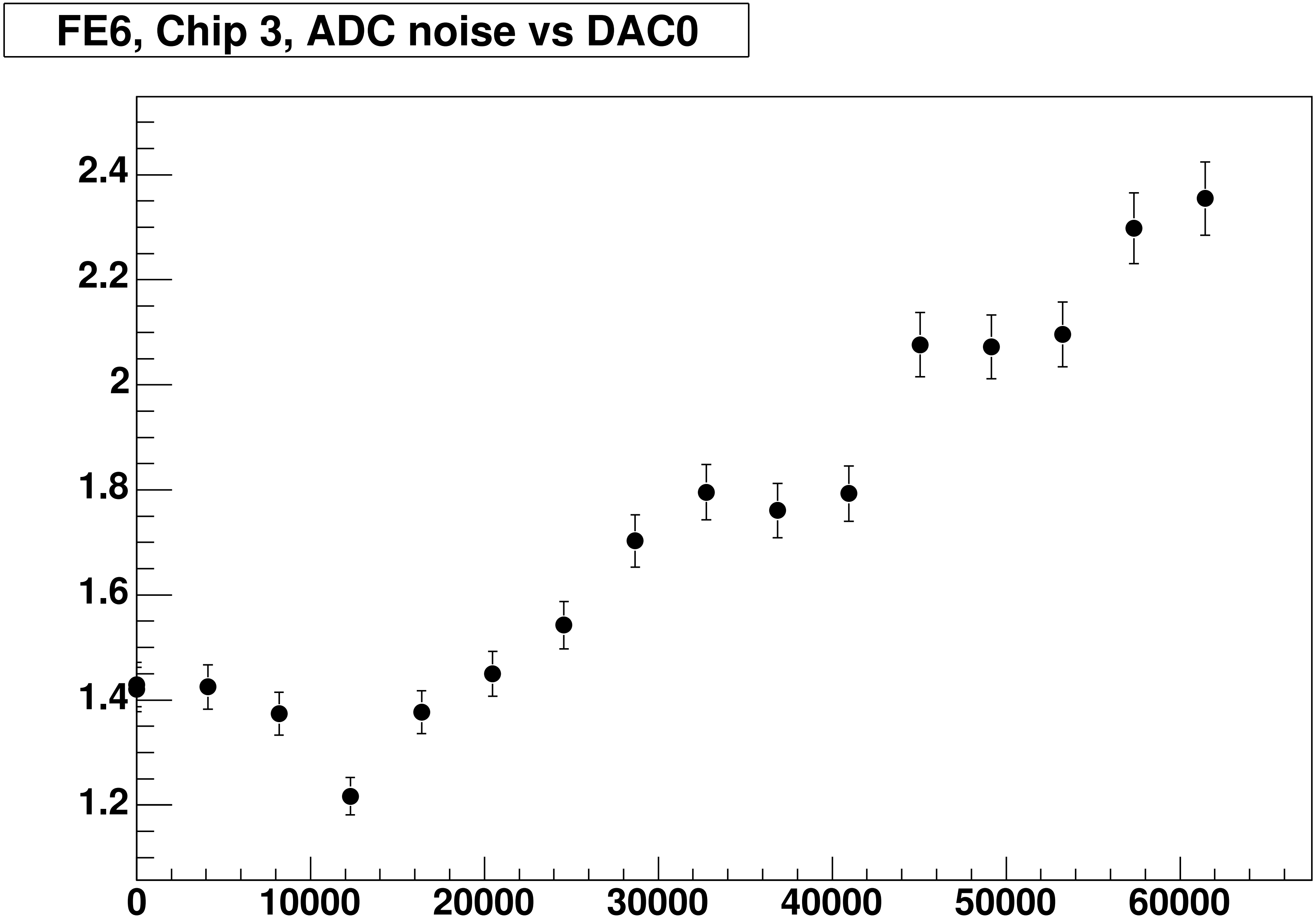
FE6, Chip 2, ADC mean vs DAC1
χ^2 / ndf 218.8 / 11
p0 27.24 ± 0.04065
p1 6.1e-06 ± 1.121e-06
28
27.8
27.6
27.4
27.2
27
26.8
0
10000
20000
30000
40000
50000
60000

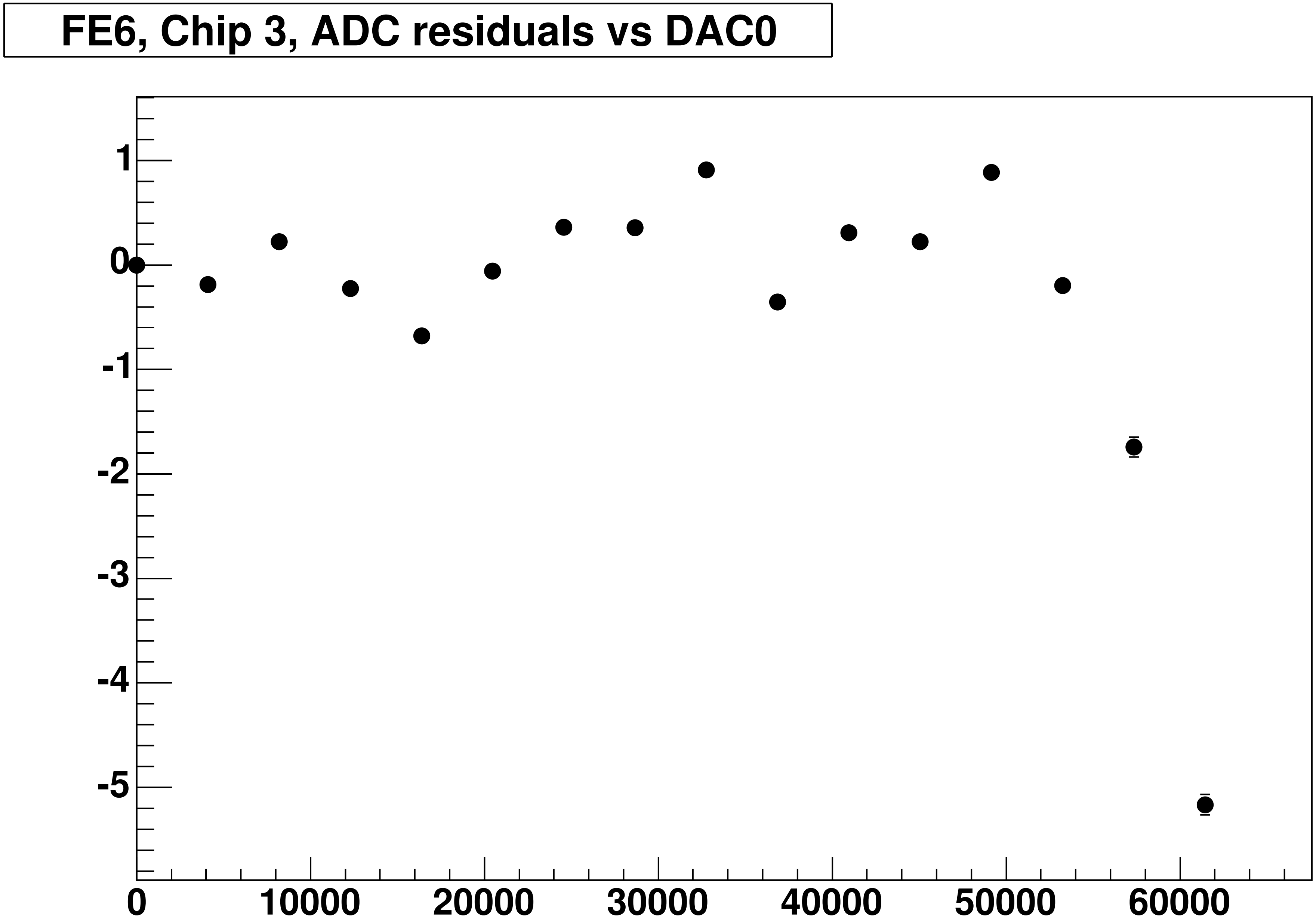

FE6, Chip 2, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

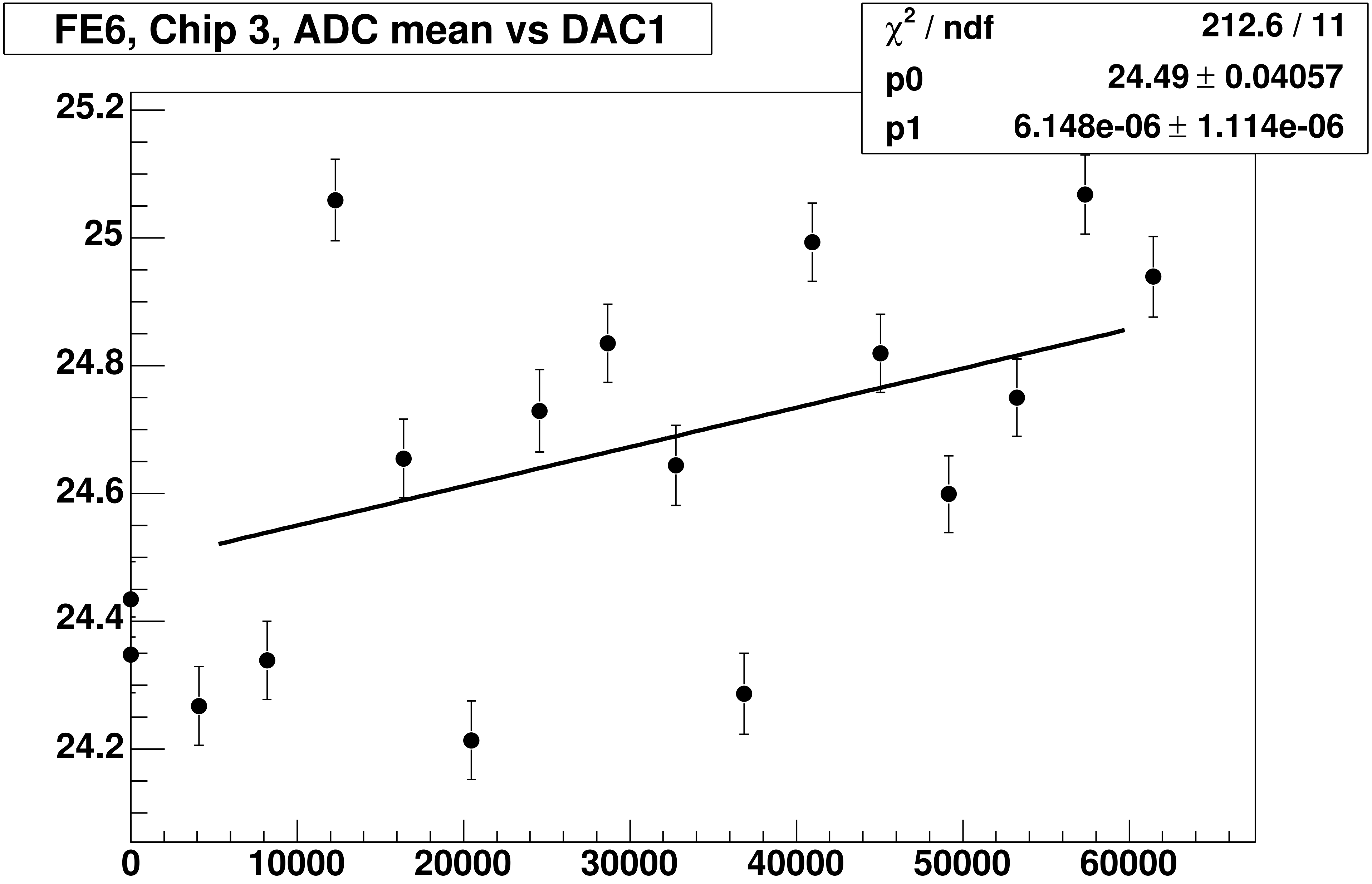


FE6, Chip 3, ADC mean vs DAC0
χ^2 / ndf 870.1 / 11
p0 25.05 ± 0.04005
p1 0.451 ± 1.292e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

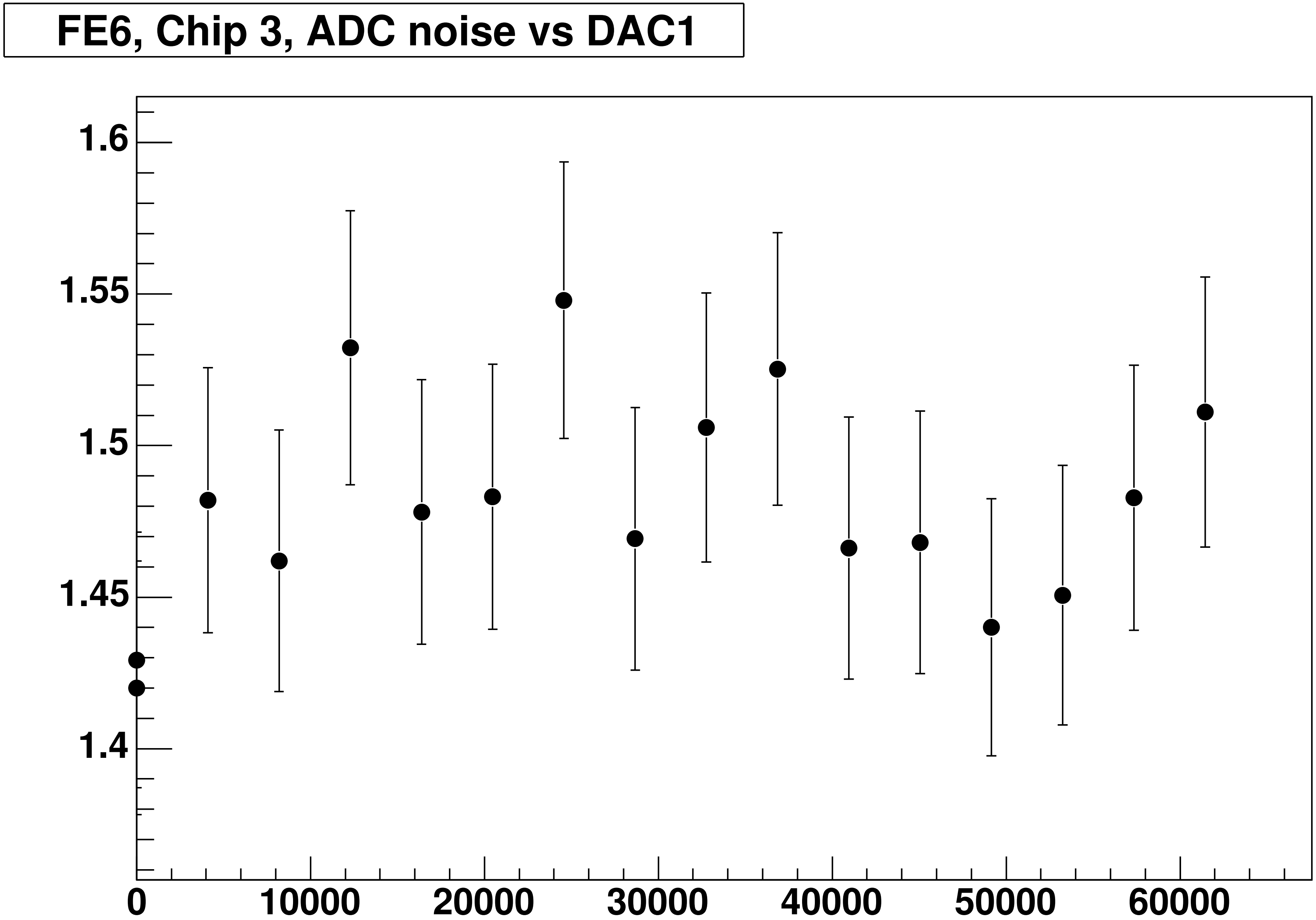

FE6, Chip 3, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



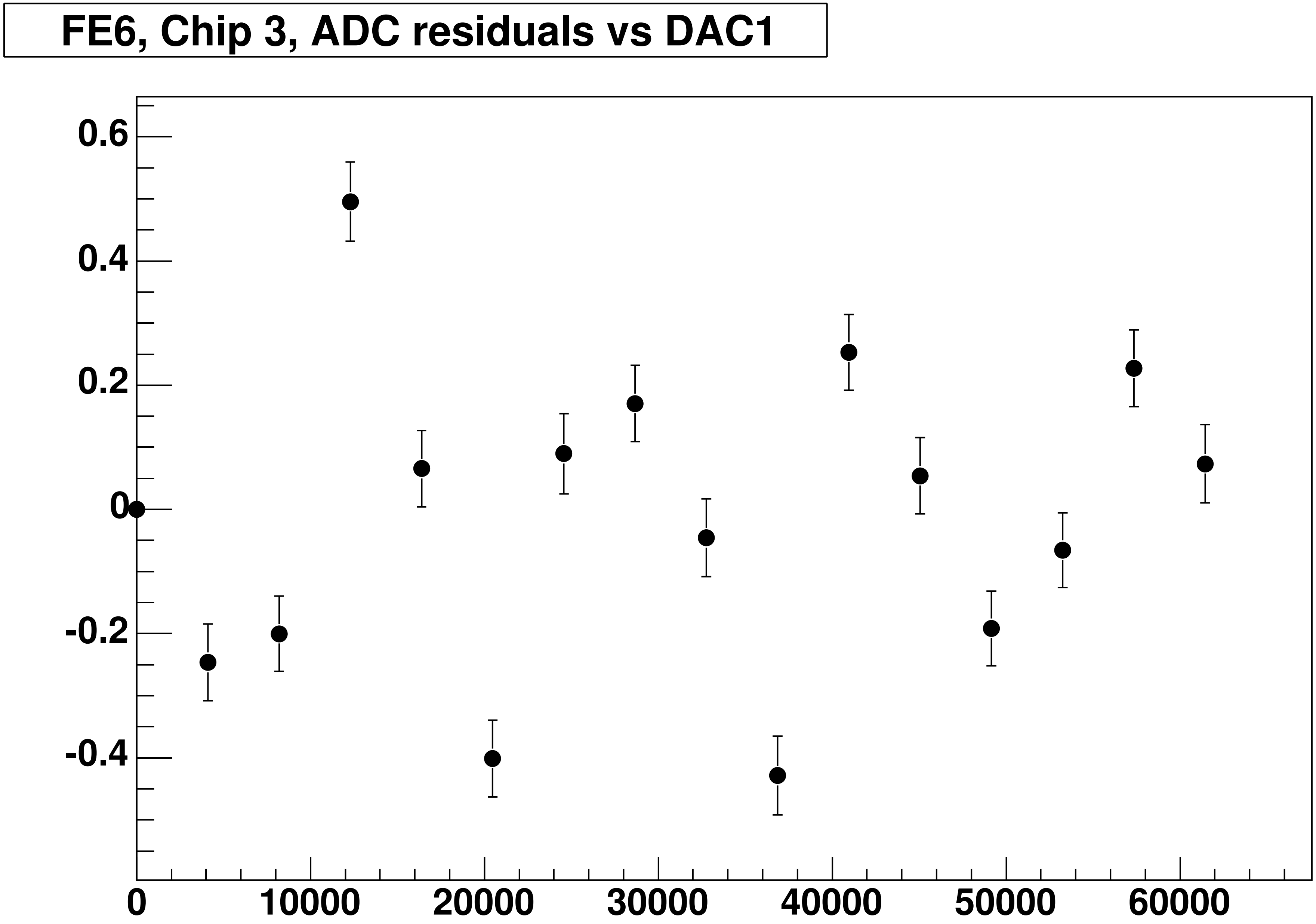
FE6, Chip 3, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



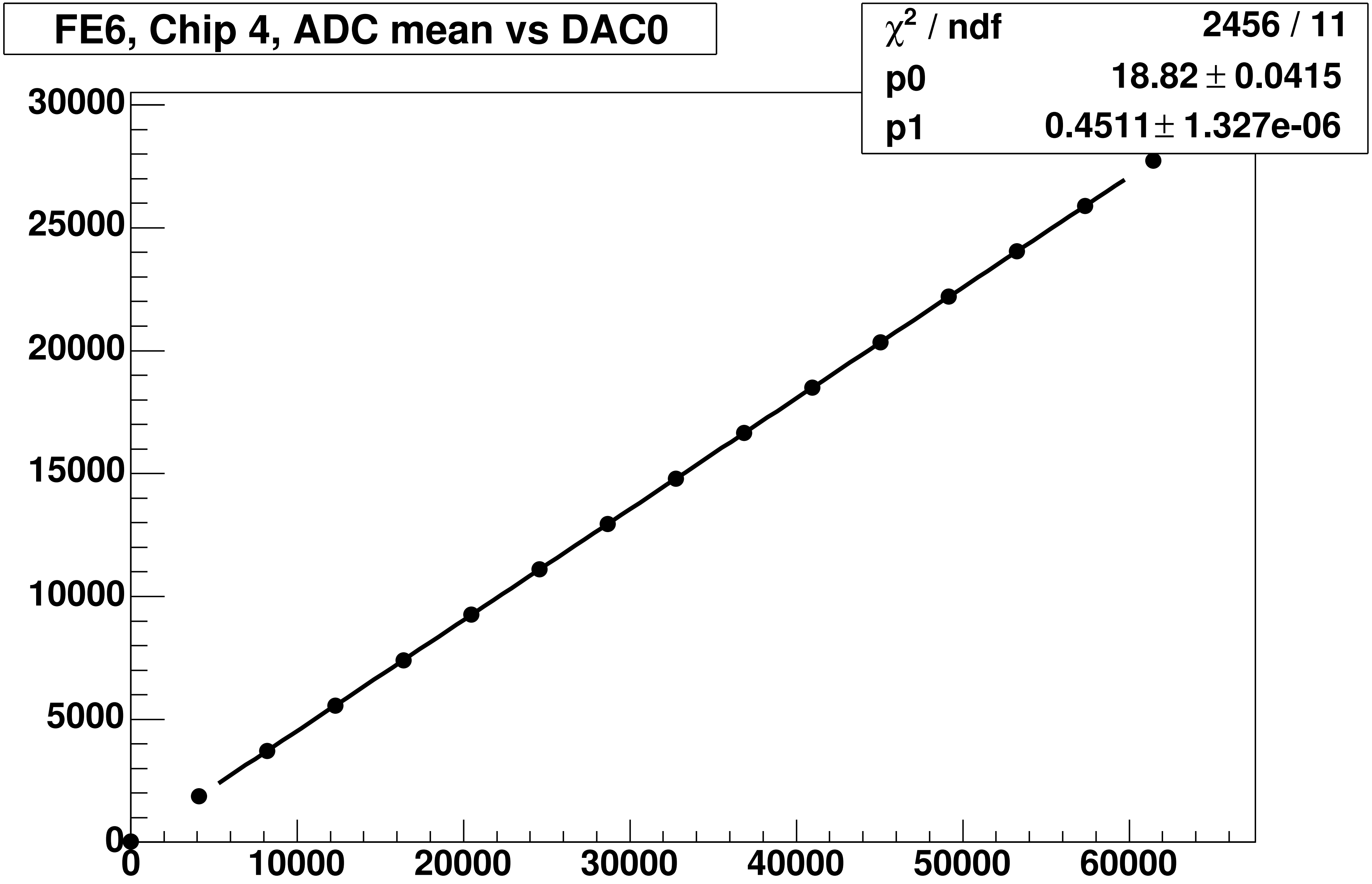
FE6, Chip 3, ADC mean vs DAC1
χ² / ndf 212.6 / 11
p0 24.49 ± 0.04057
p1 6.148e-06 ± 1.114e-06
25.2
25
24.8
24.6
24.4
24.2
0
10000
20000
30000
40000
50000
60000



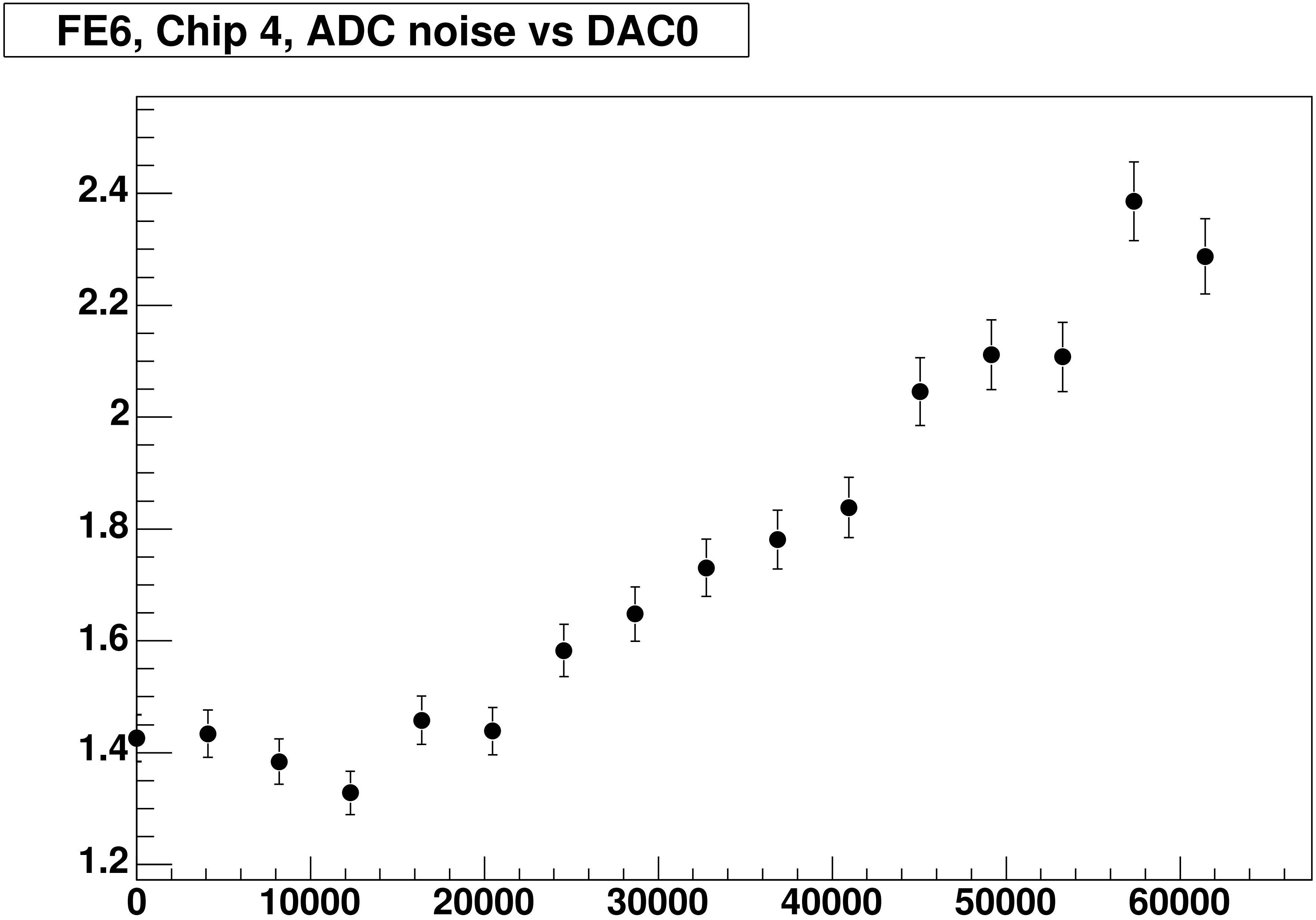
FE6, Chip 3, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

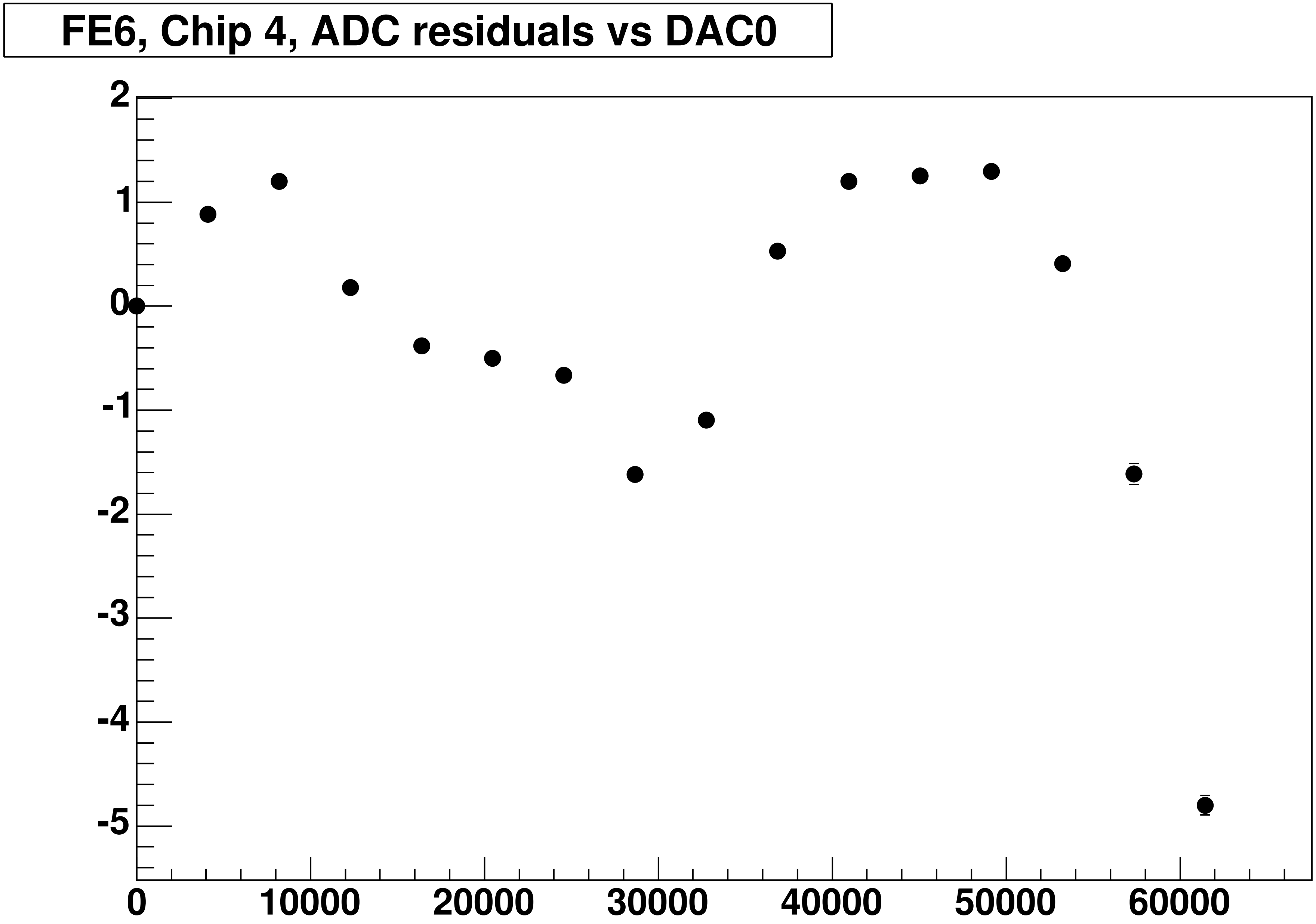


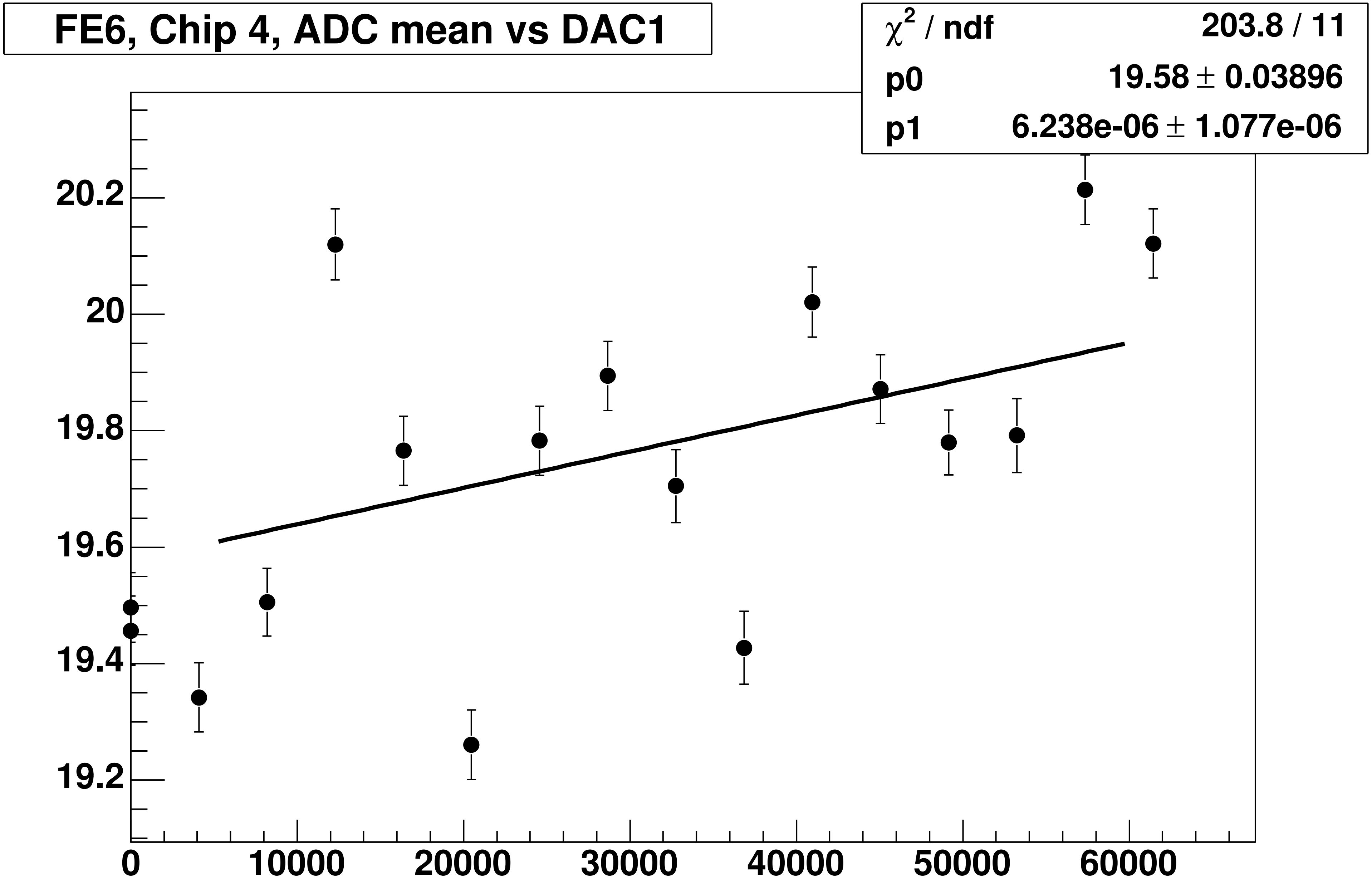
FE6, Chip 3, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000

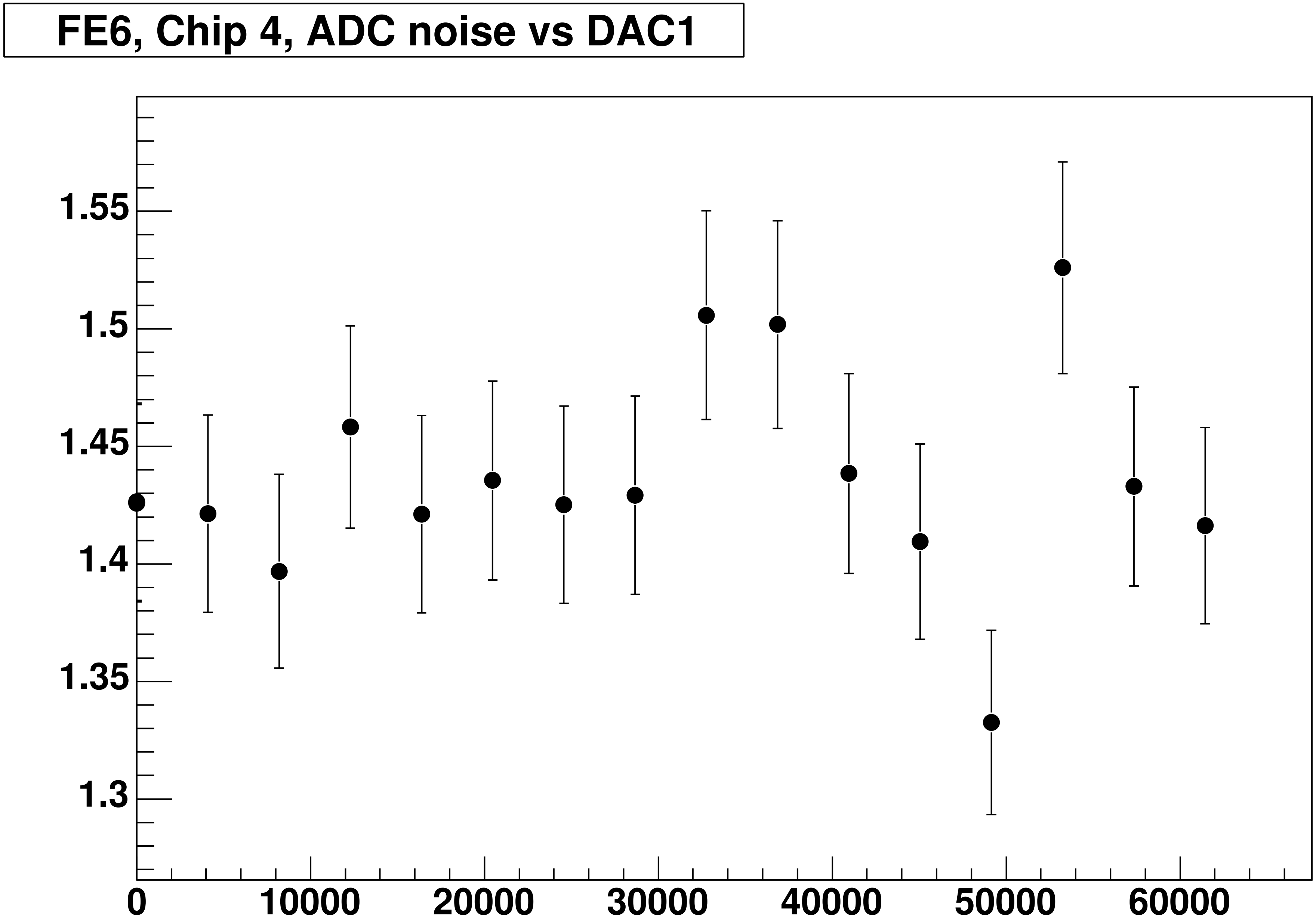


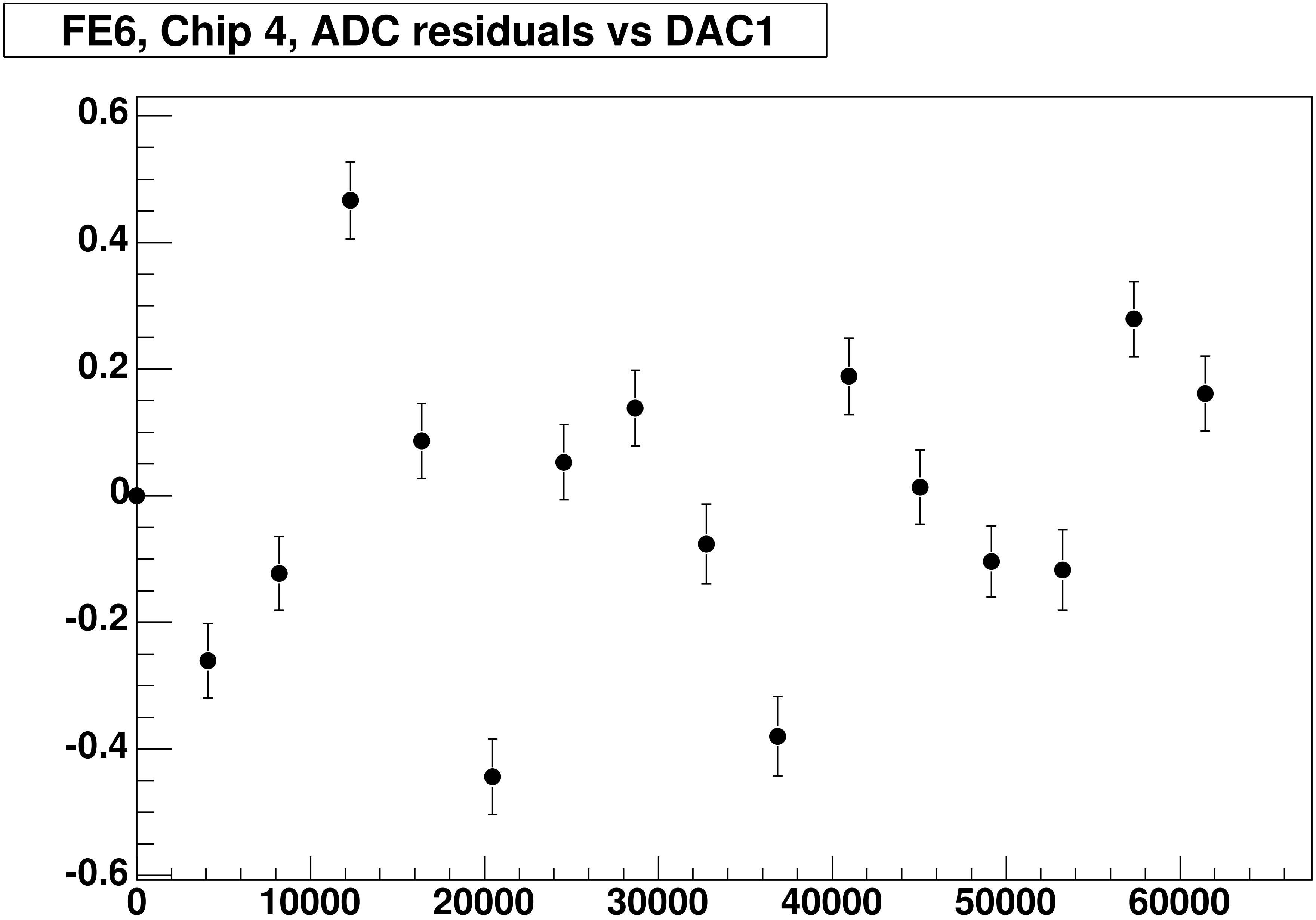
FE6, Chip 4, ADC mean vs DAC0
χ^2 / ndf 2456 / 11
p0 18.82 ± 0.0415
p1 0.4511 ± 1.327e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

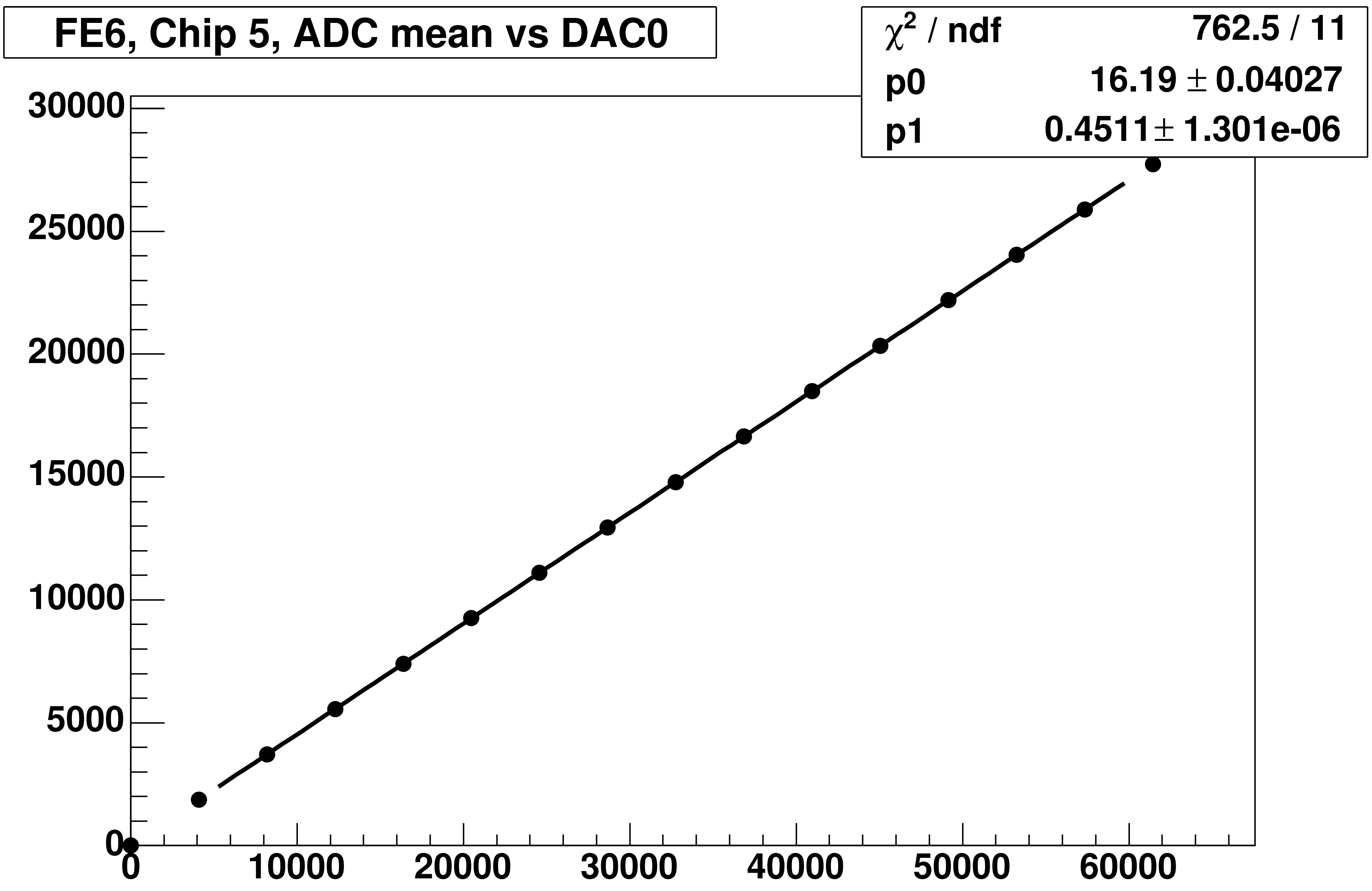

FE6, Chip 4, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

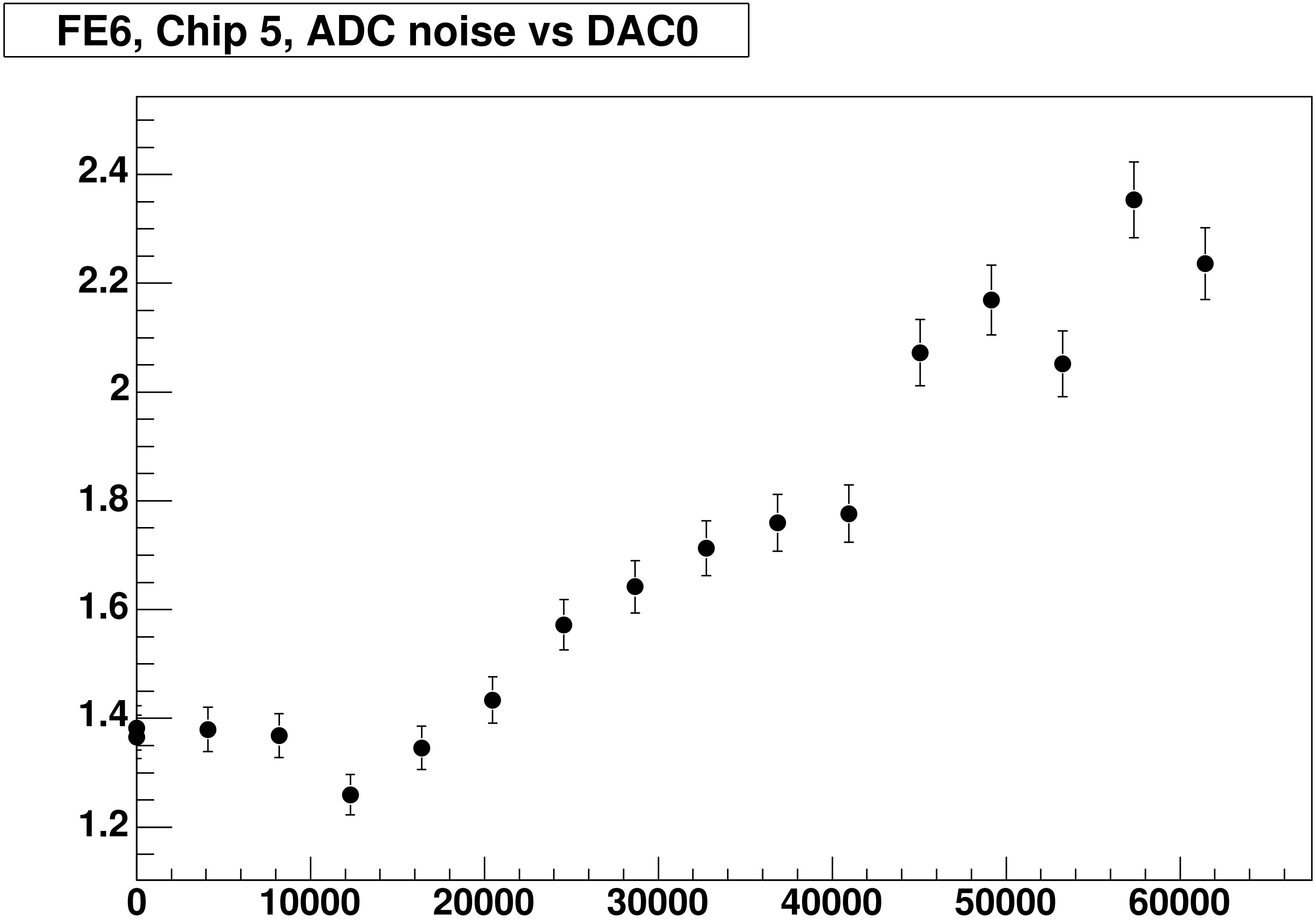

FE6, Chip 4, ADC mean vs DAC1
χ^2 / ndf 203.8 / 11
p0 19.58 ± 0.03896
p1 6.238e-06 ± 1.077e-06
20.2
20
19.8
19.6
19.4
19.2
0
10000
20000
30000
40000
50000
60000


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

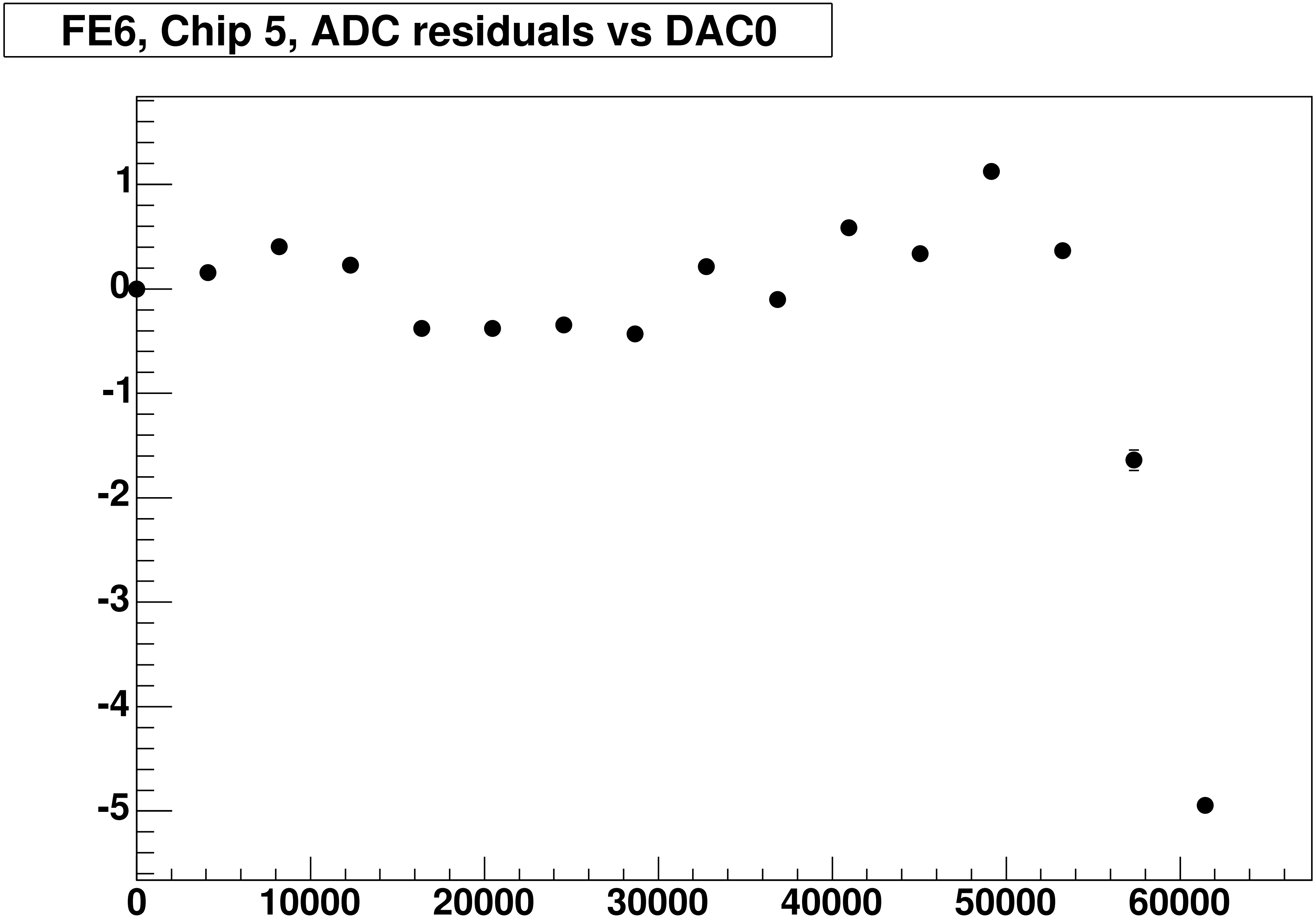

FE6, Chip 4, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000

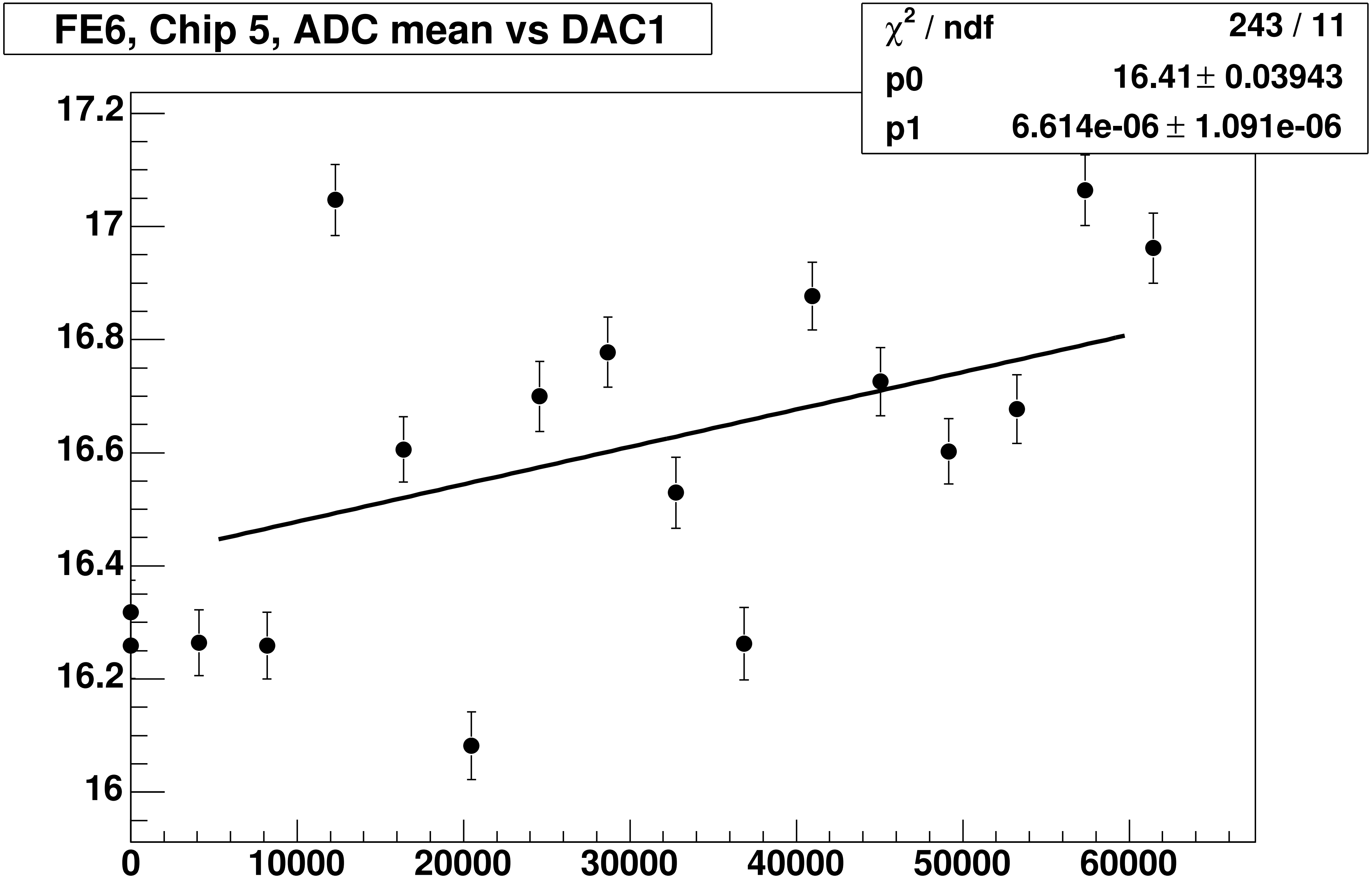


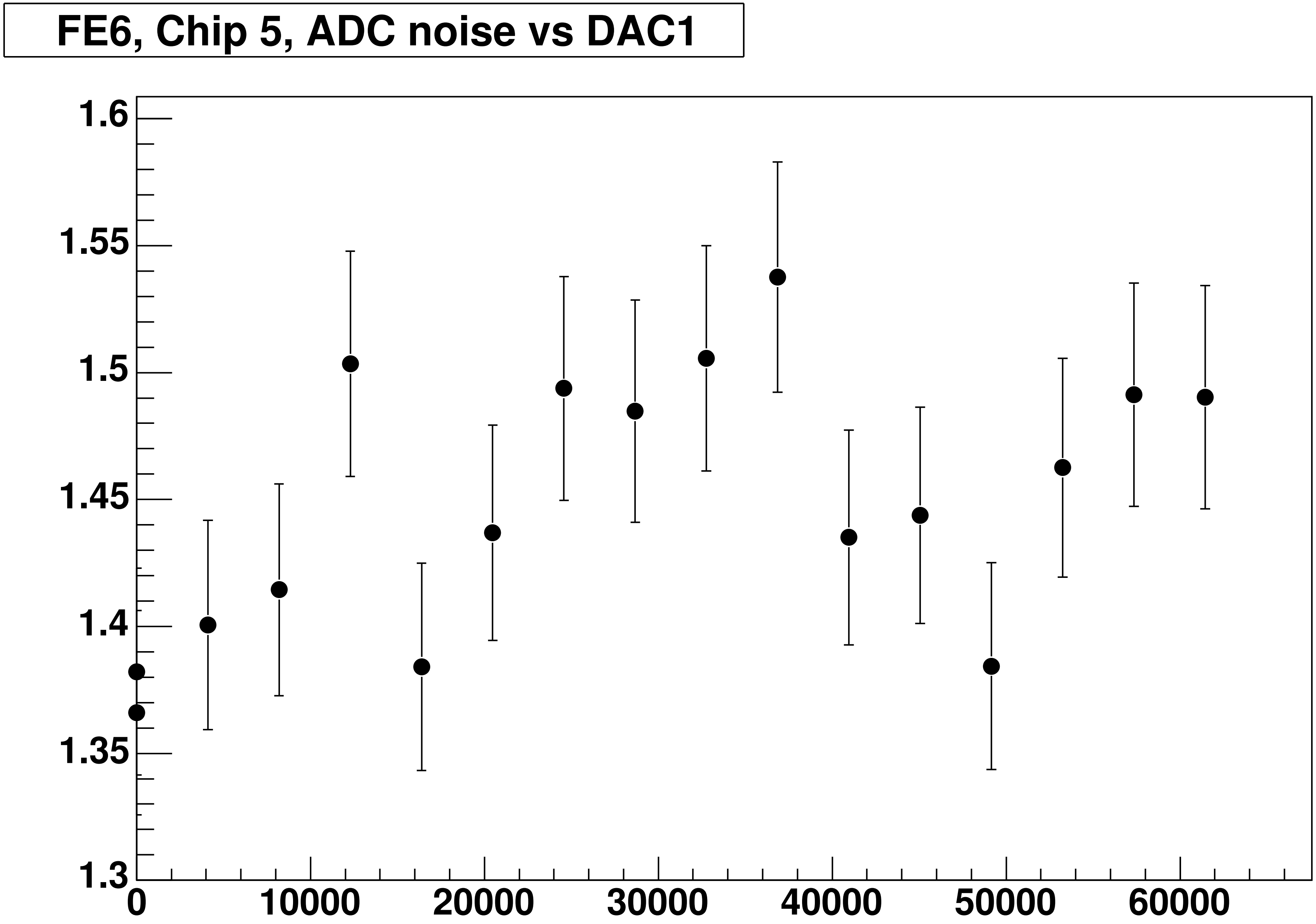
FE6, Chip 5, ADC mean vs DAC0
χ^2 / ndf 762.5 / 11
p0 16.19 ± 0.04027
p1 0.4511± 1.301e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

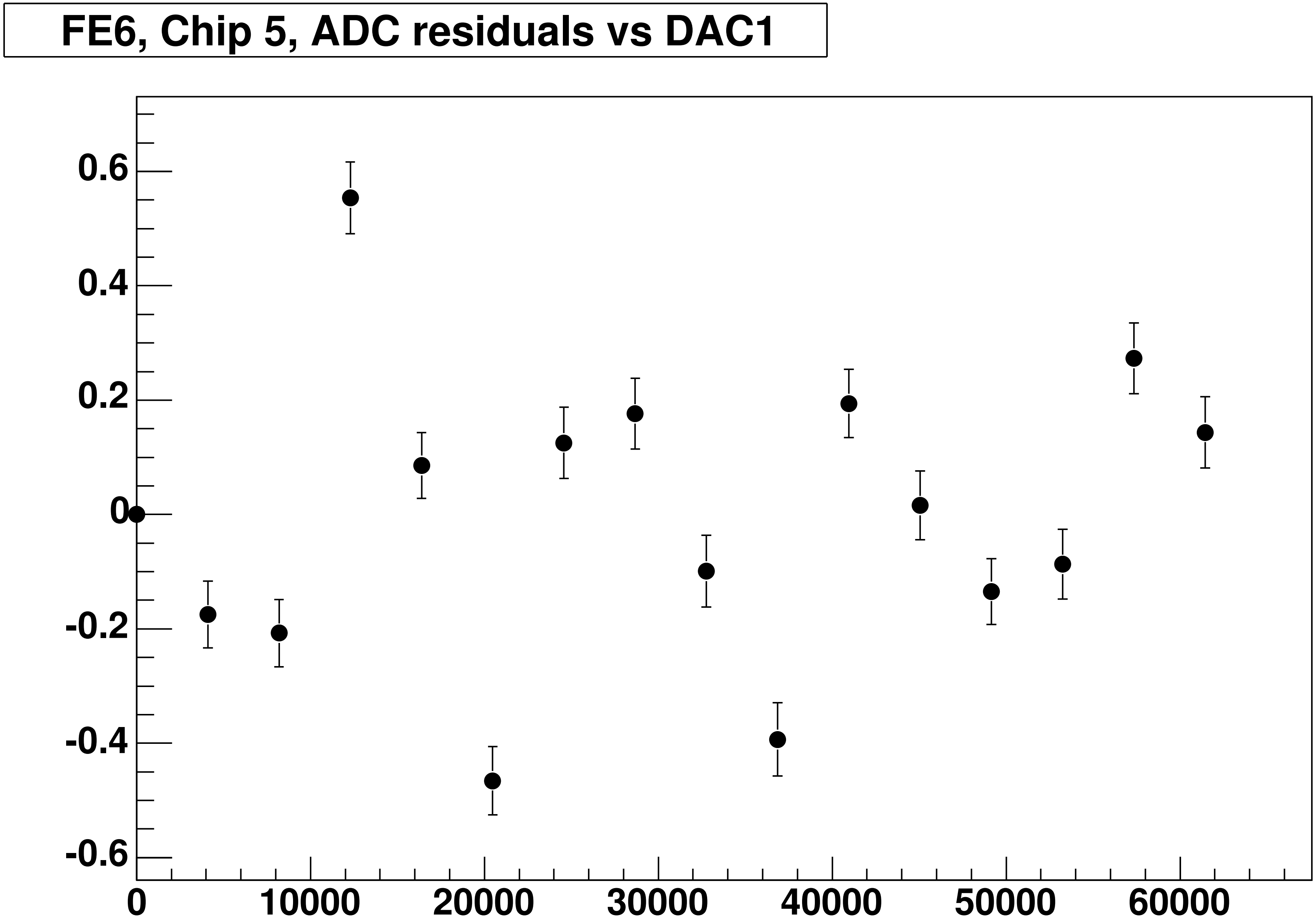


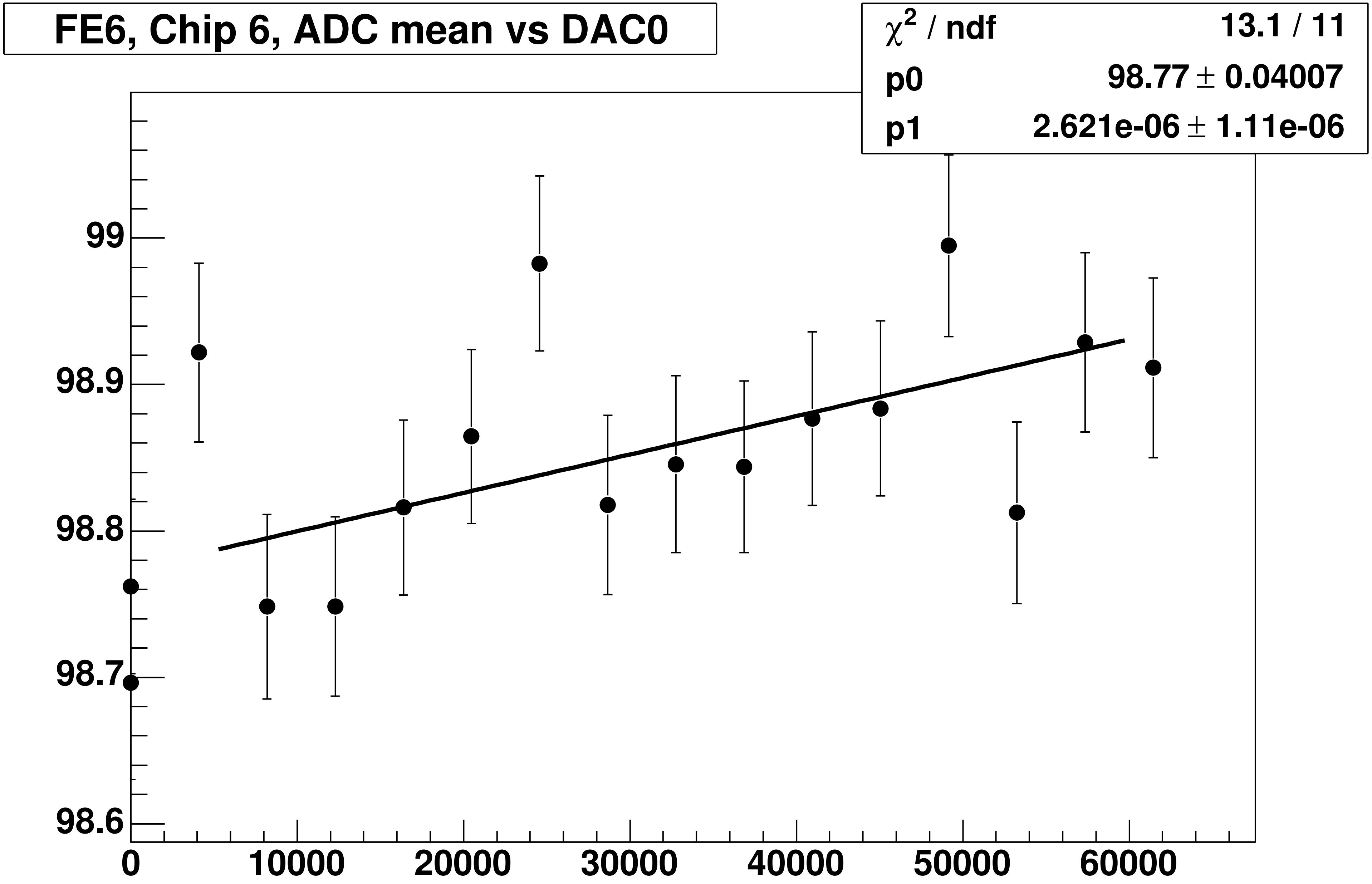
FE6, Chip 5, ADC noise vs DAC0
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000


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

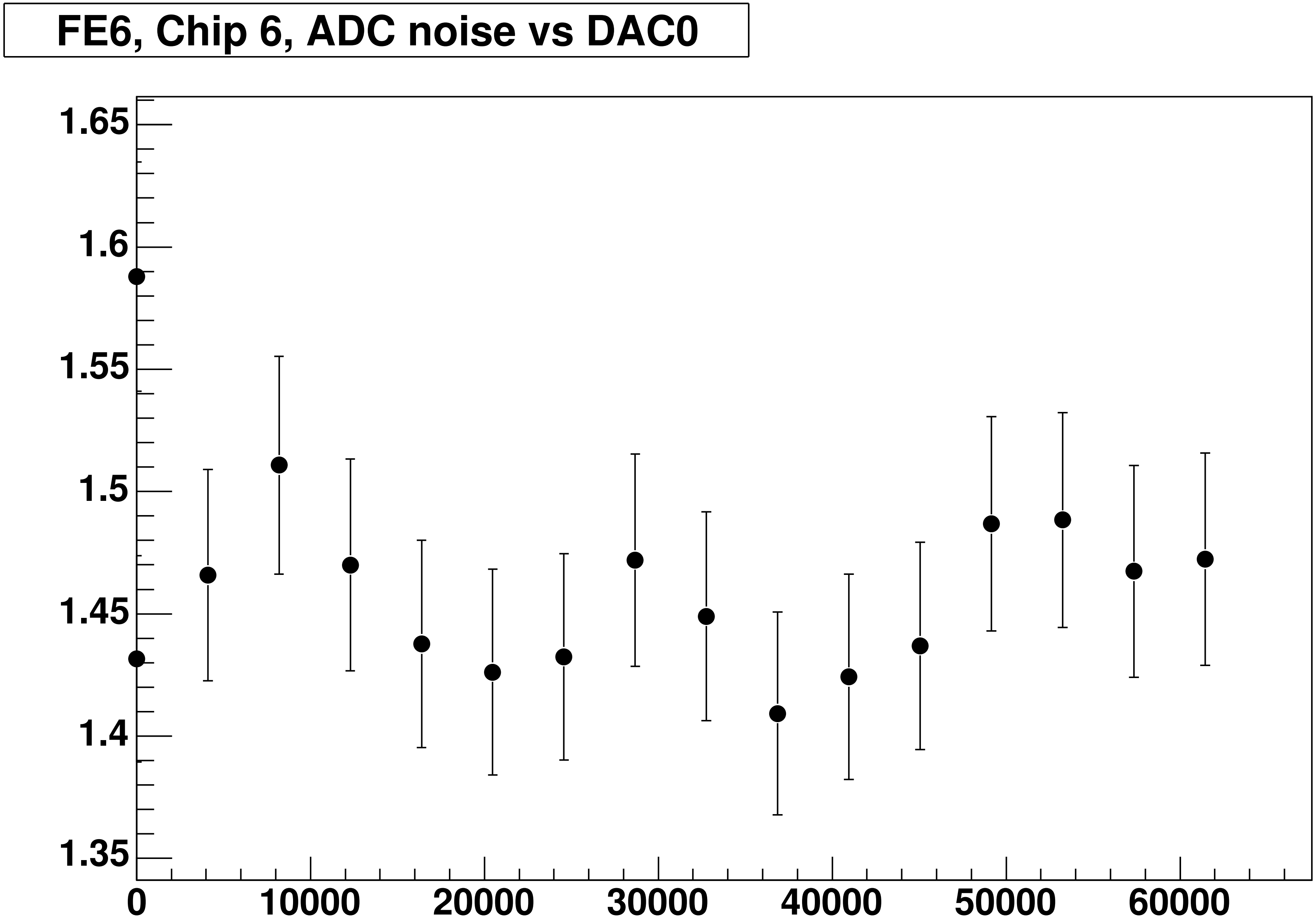

FE6, Chip 5, ADC mean vs DAC1
χ^2 / ndf 243 / 11
p0 16.41 ± 0.03943
p1 6.614e-06 ± 1.091e-06
17.2
17
16.8
16.6
16.4
16.2
16
0
10000
20000
30000
40000
50000
60000

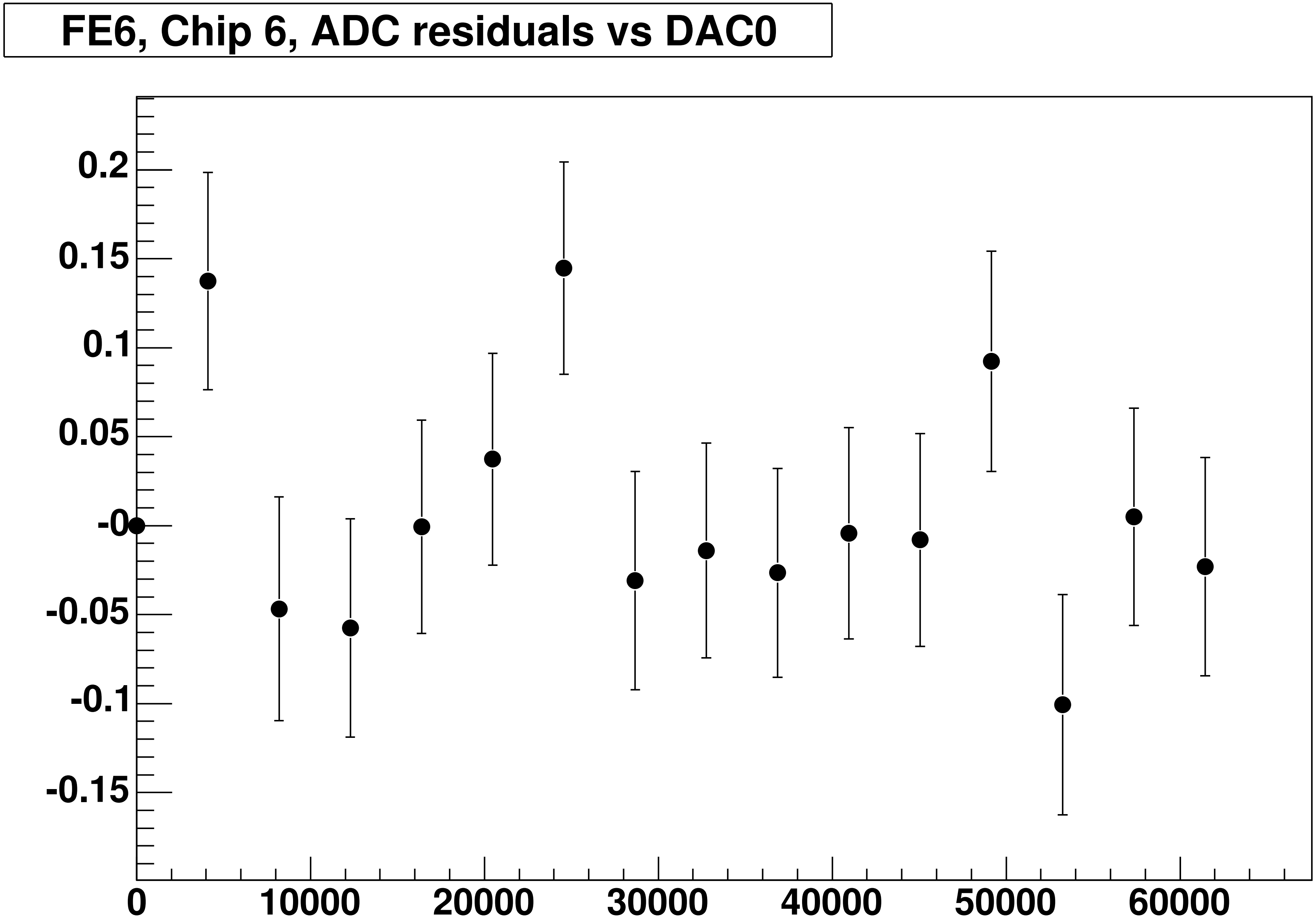

FE6, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

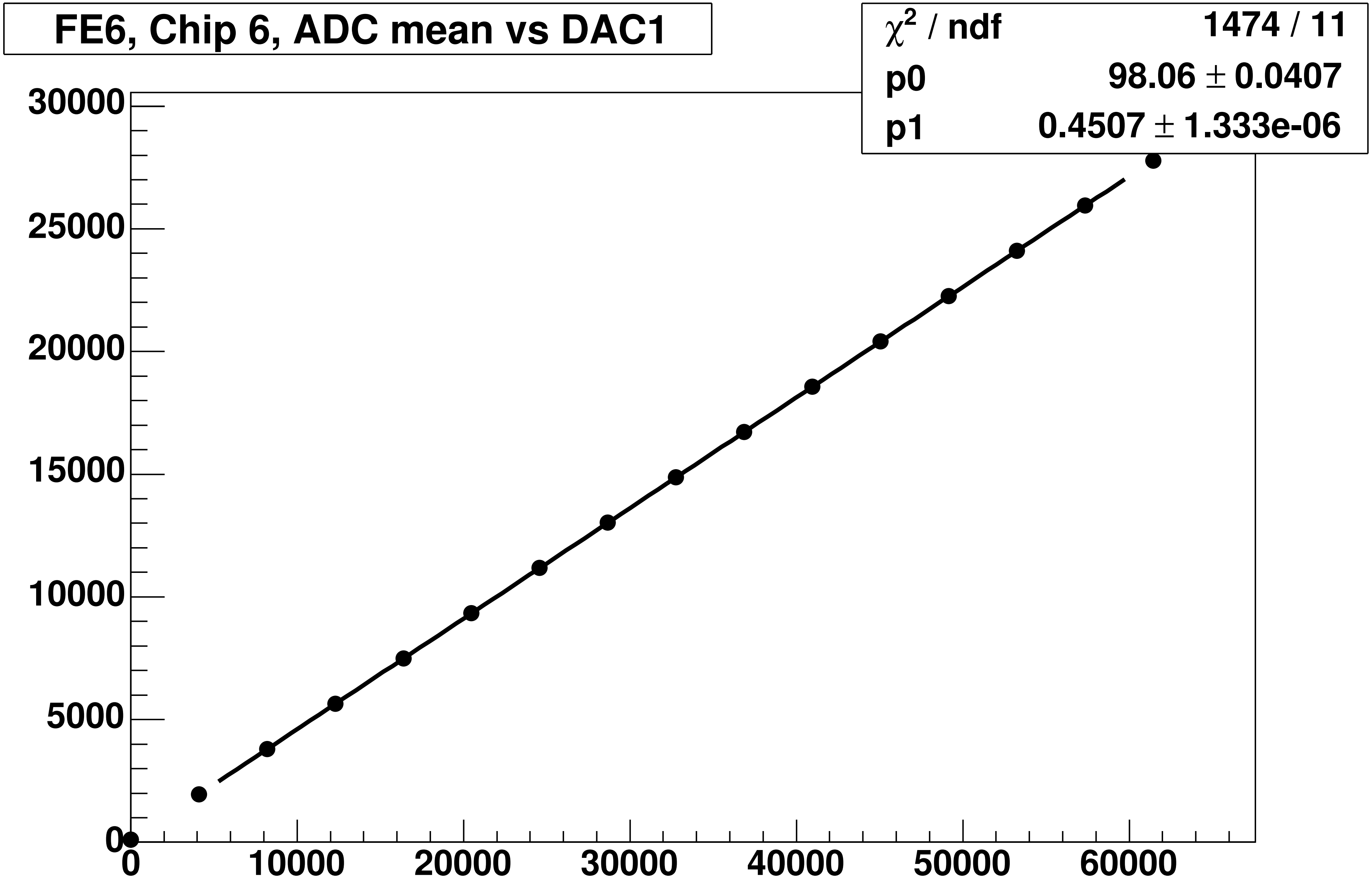

FE6, Chip 5, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000



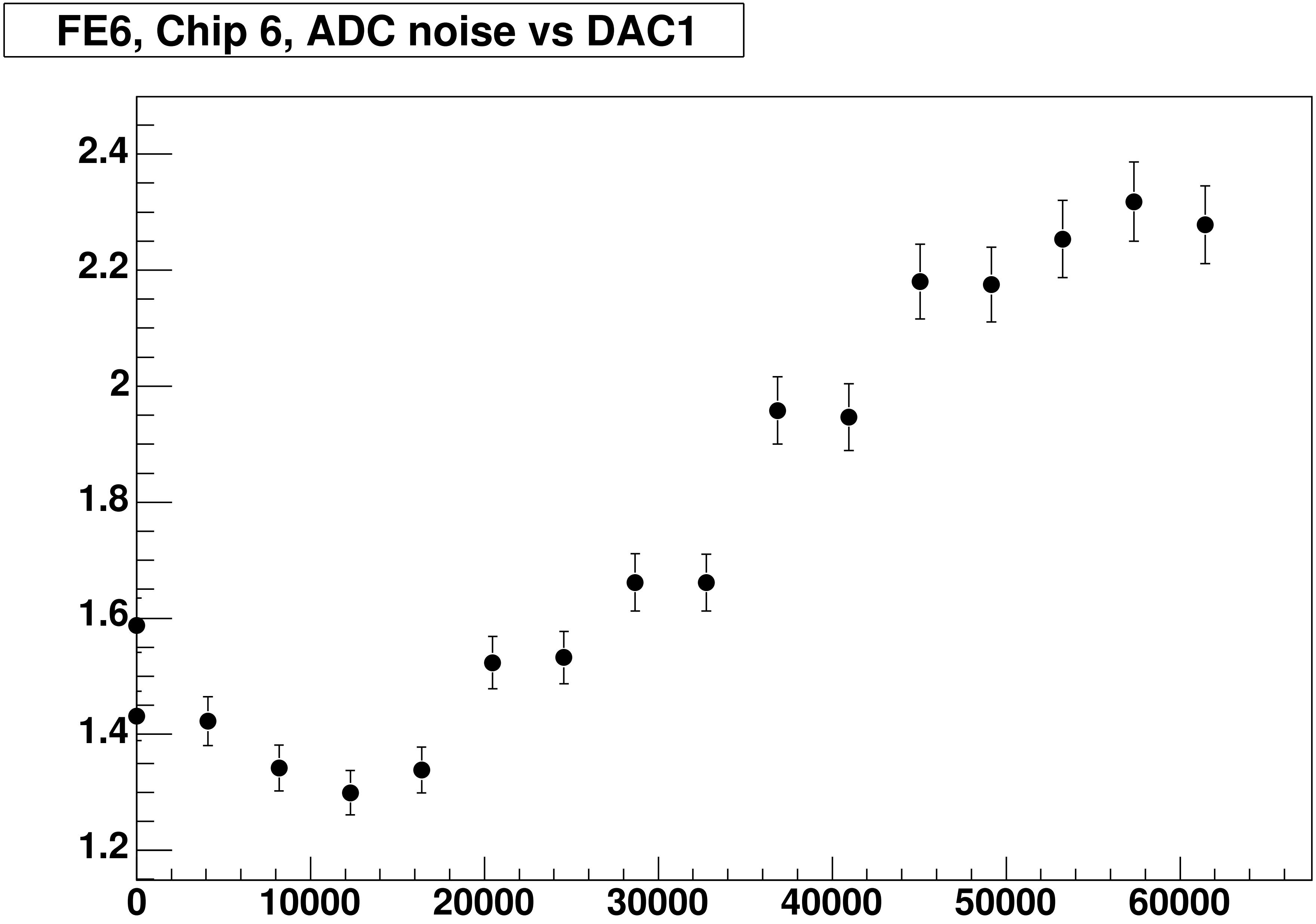
FE6, Chip 6, ADC mean vs DAC0
χ^2 / ndf 13.1 / 11
p0 98.77 ± 0.04007
p1 2.621e-06 ± 1.11e-06
99
98.9
98.8
98.7
98.6
0
10000
20000
30000
40000
50000
60000

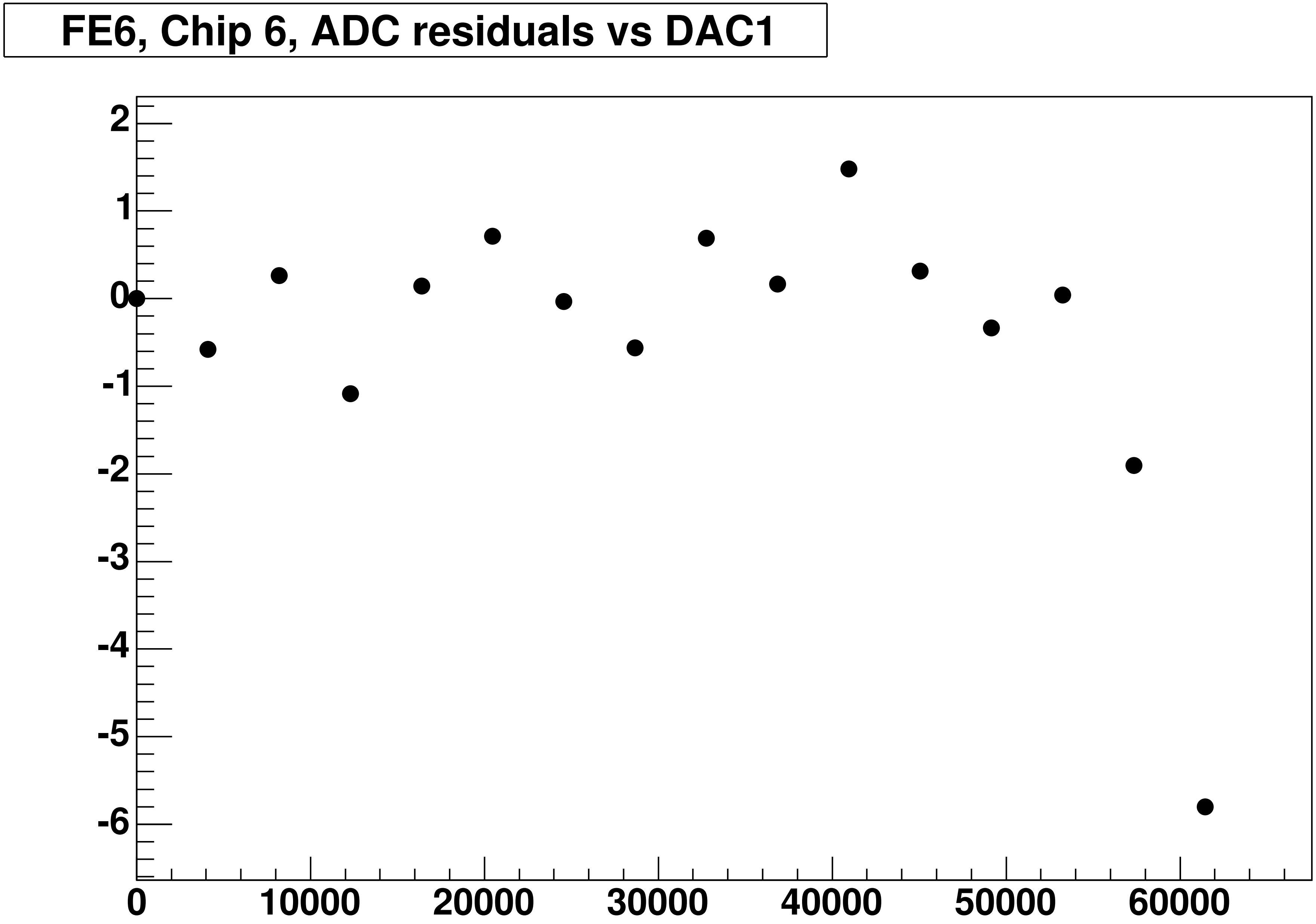

FE6, Chip 6, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

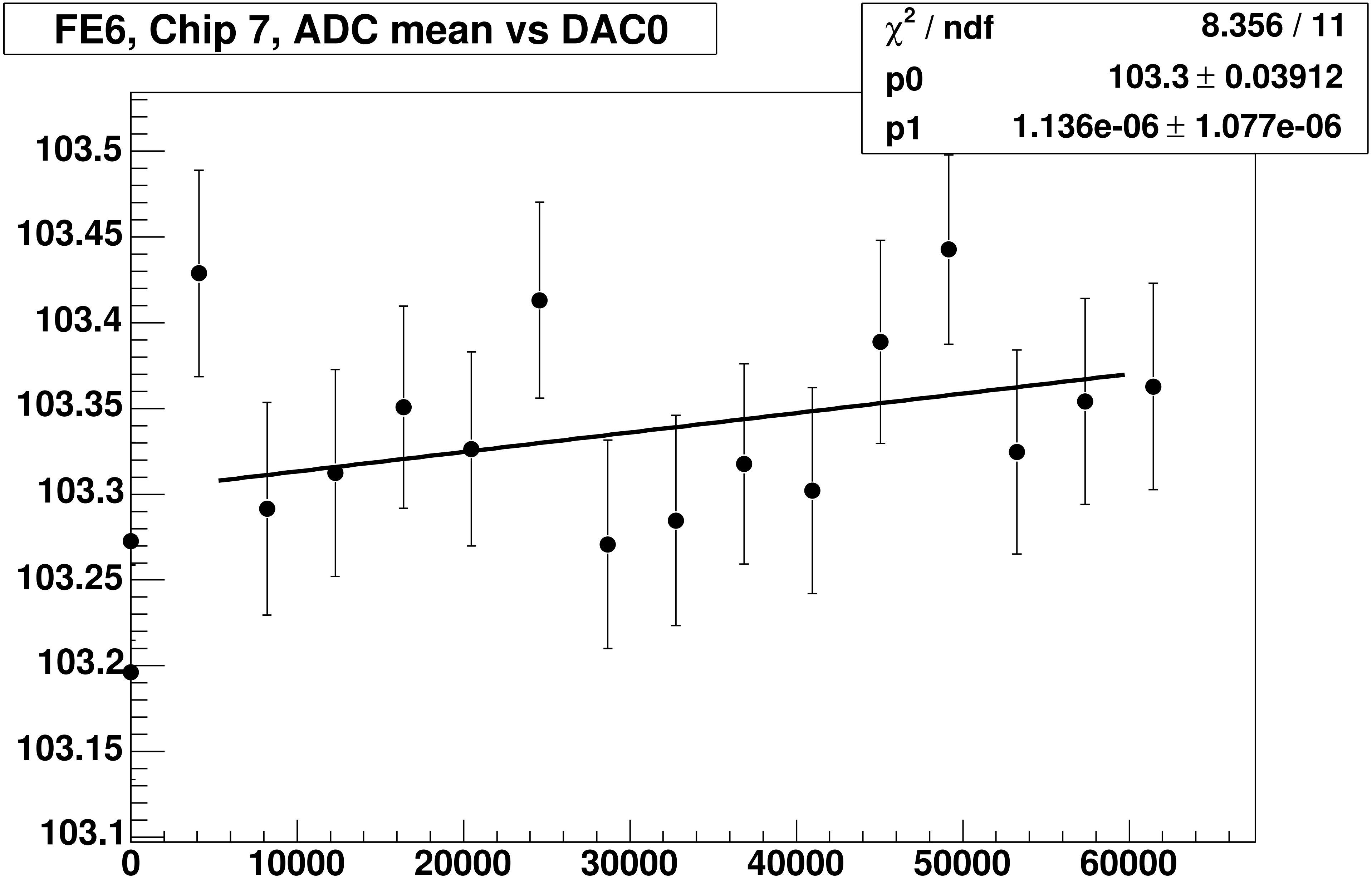

FE6, Chip 6, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



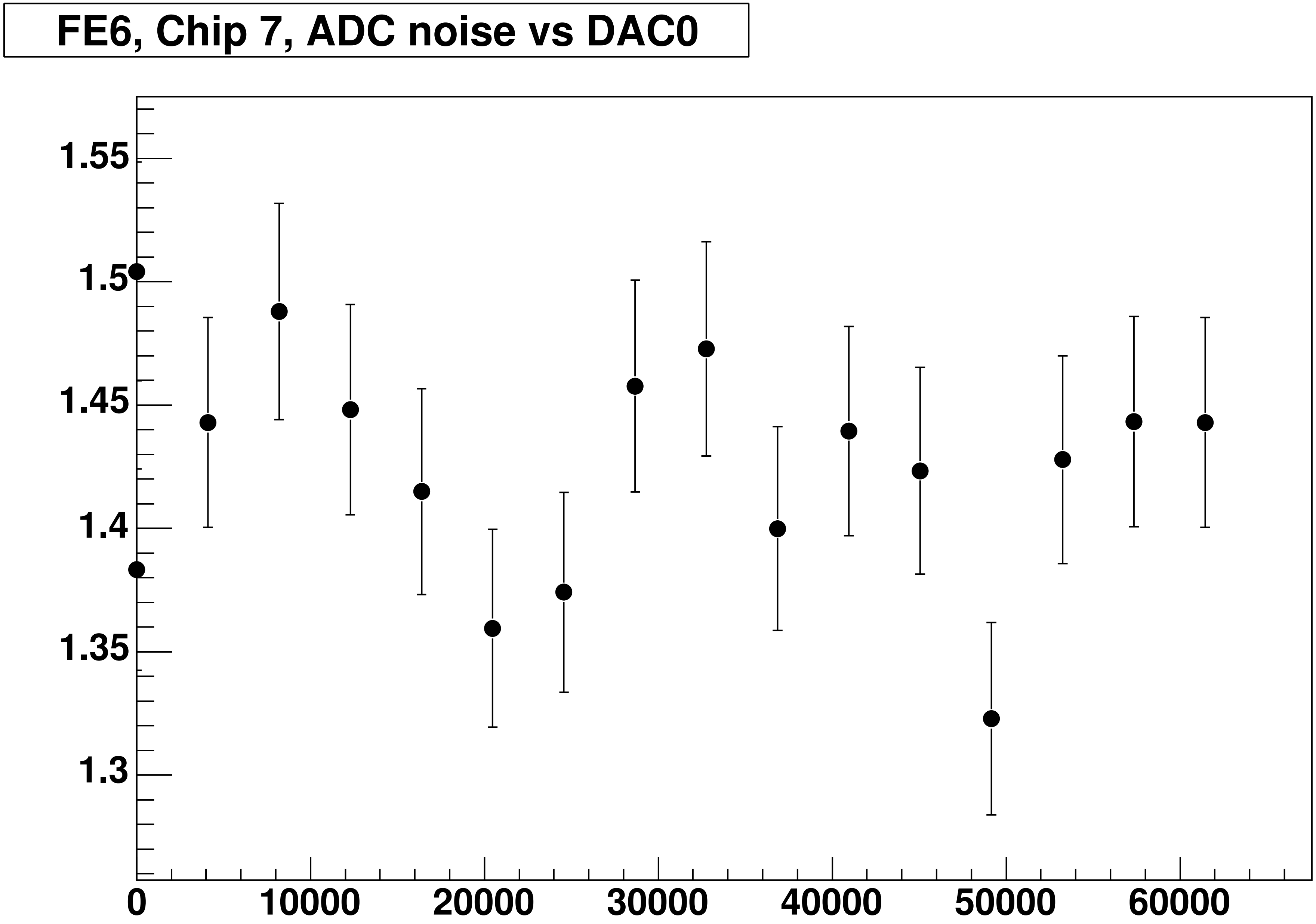
FE6, Chip 6, ADC mean vs DAC1
χ^2 / ndf 1474 / 11
p0 98.06 ± 0.0407
p1 0.4507 ± 1.333e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

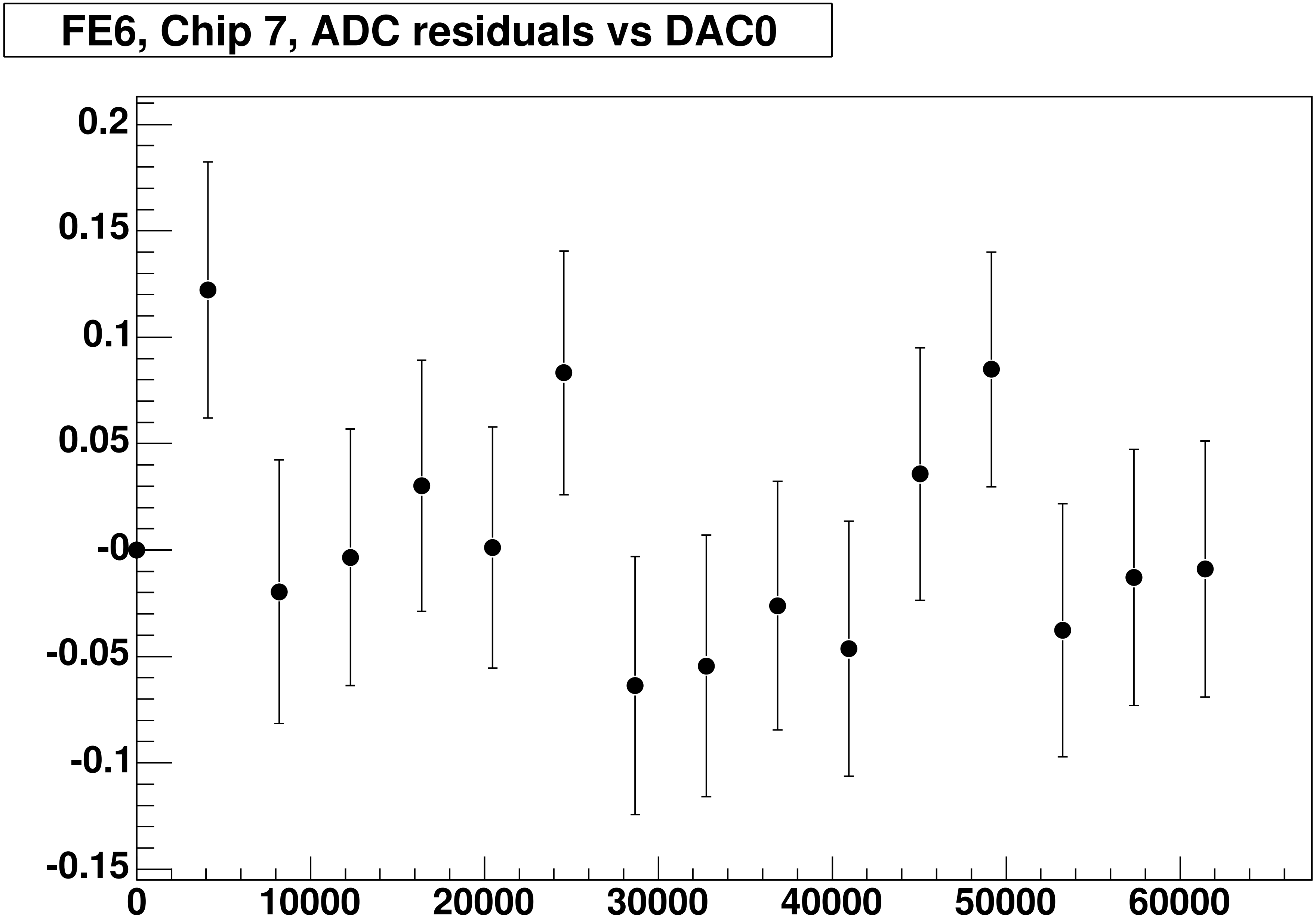

FE6, Chip 6, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

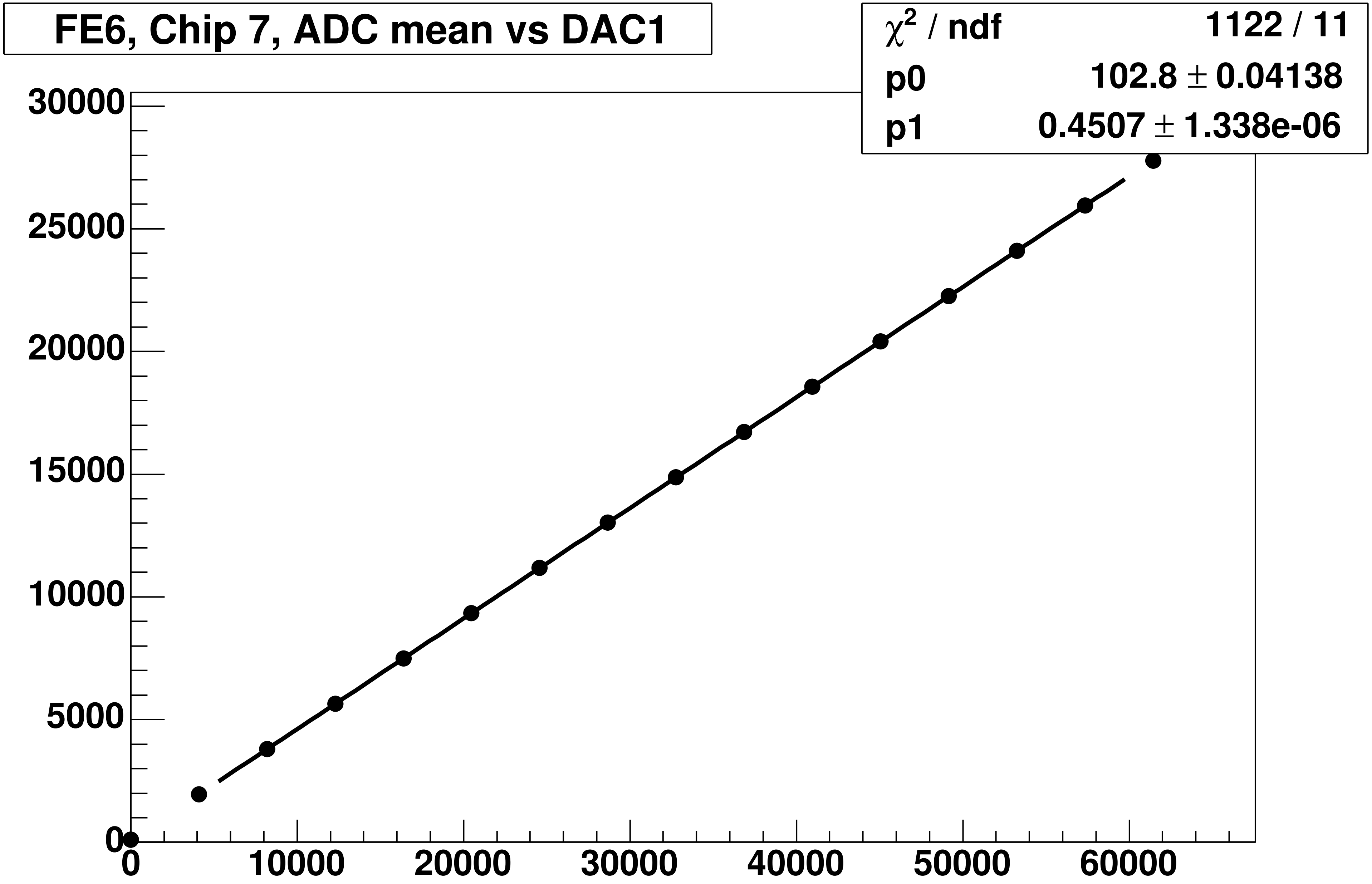

FE6, Chip 6, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



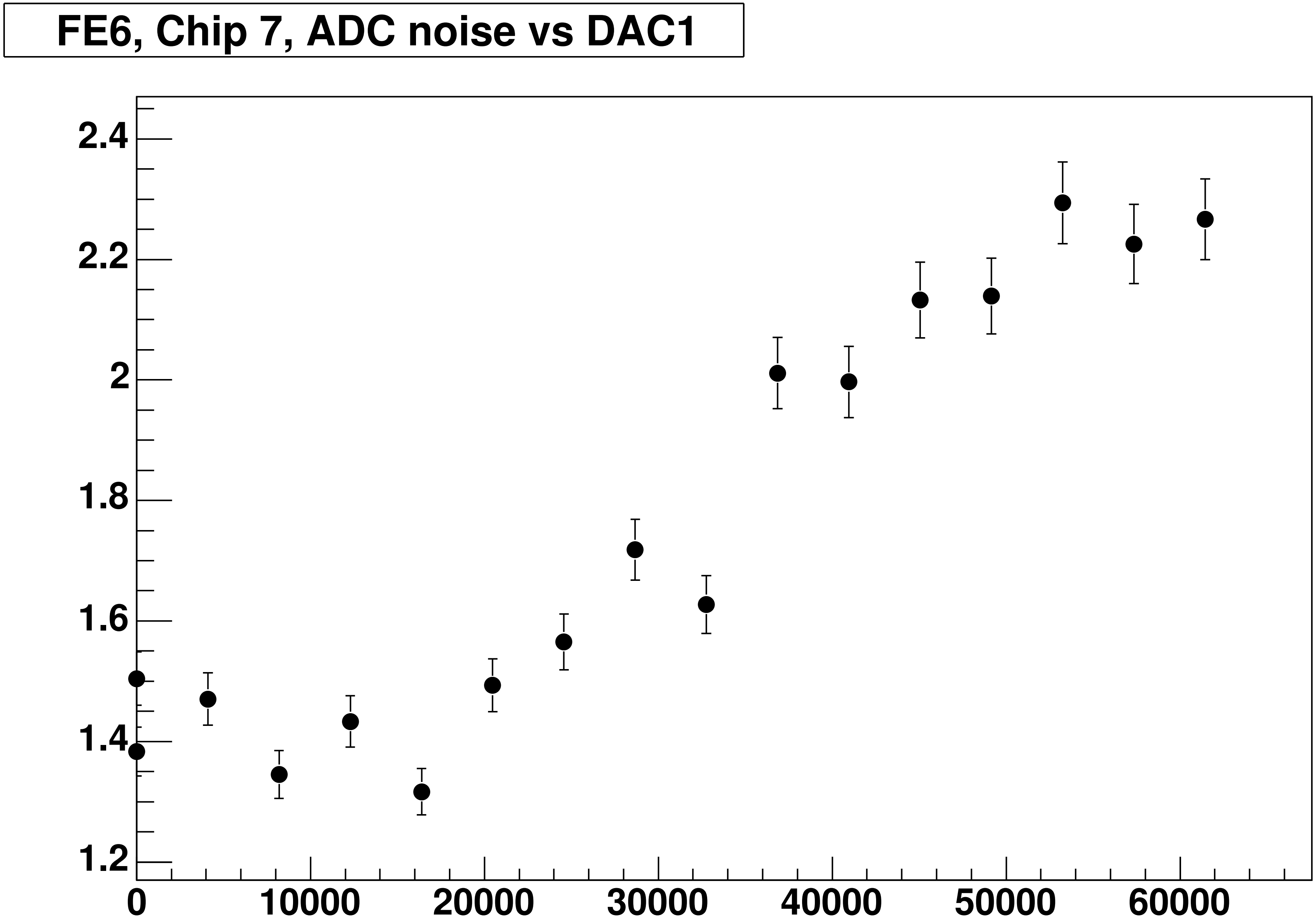
FE6, Chip 7, ADC mean vs DAC0
χ^2 / ndf 8.356 / 11
p0 103.3 ± 0.03912
p1 1.136e-06 ± 1.077e-06
103.5
103.45
103.4
103.35
103.3
103.25
103.2
103.15
103.1
0
10000
20000
30000
40000
50000
60000

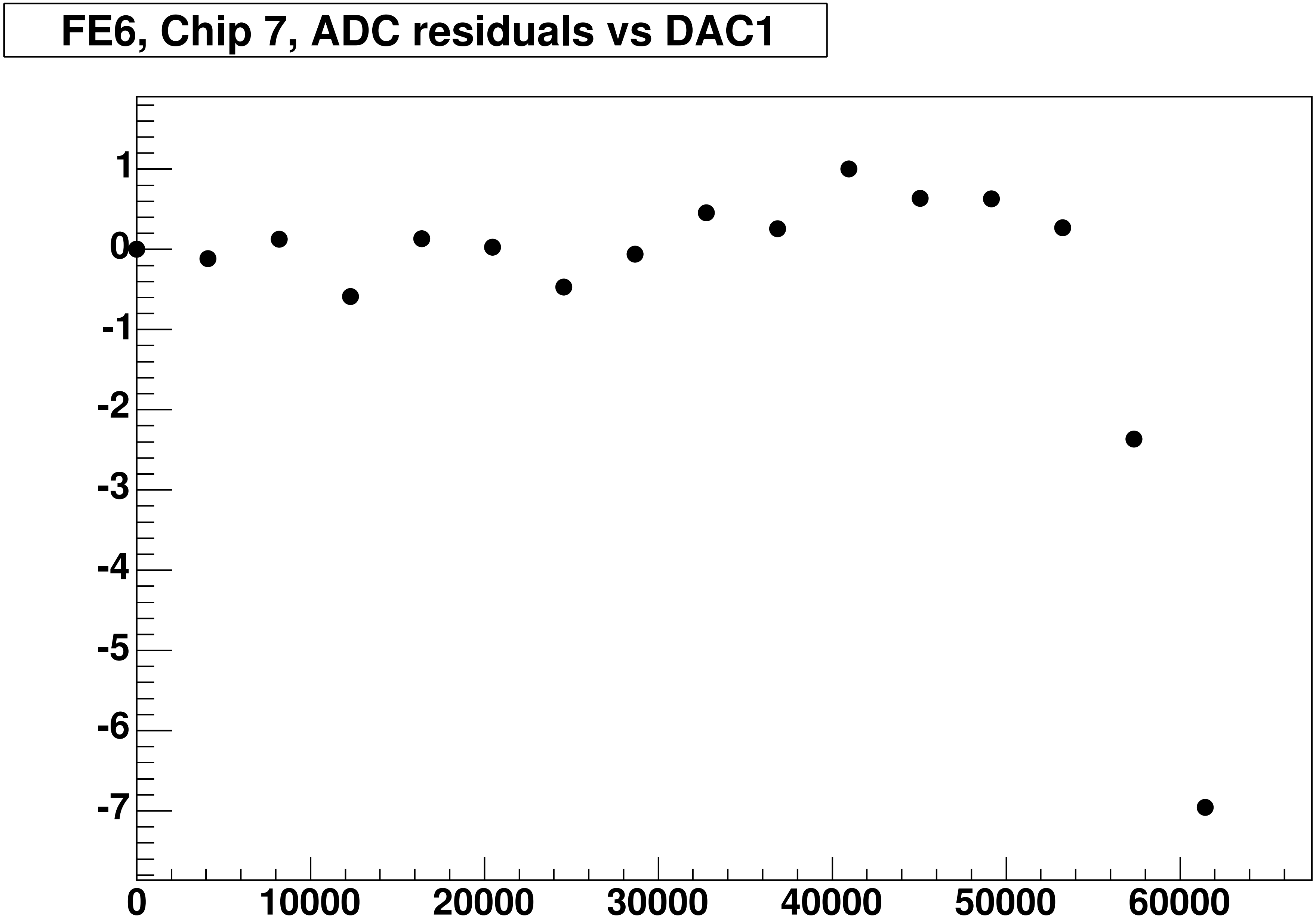

FE6, Chip 7, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

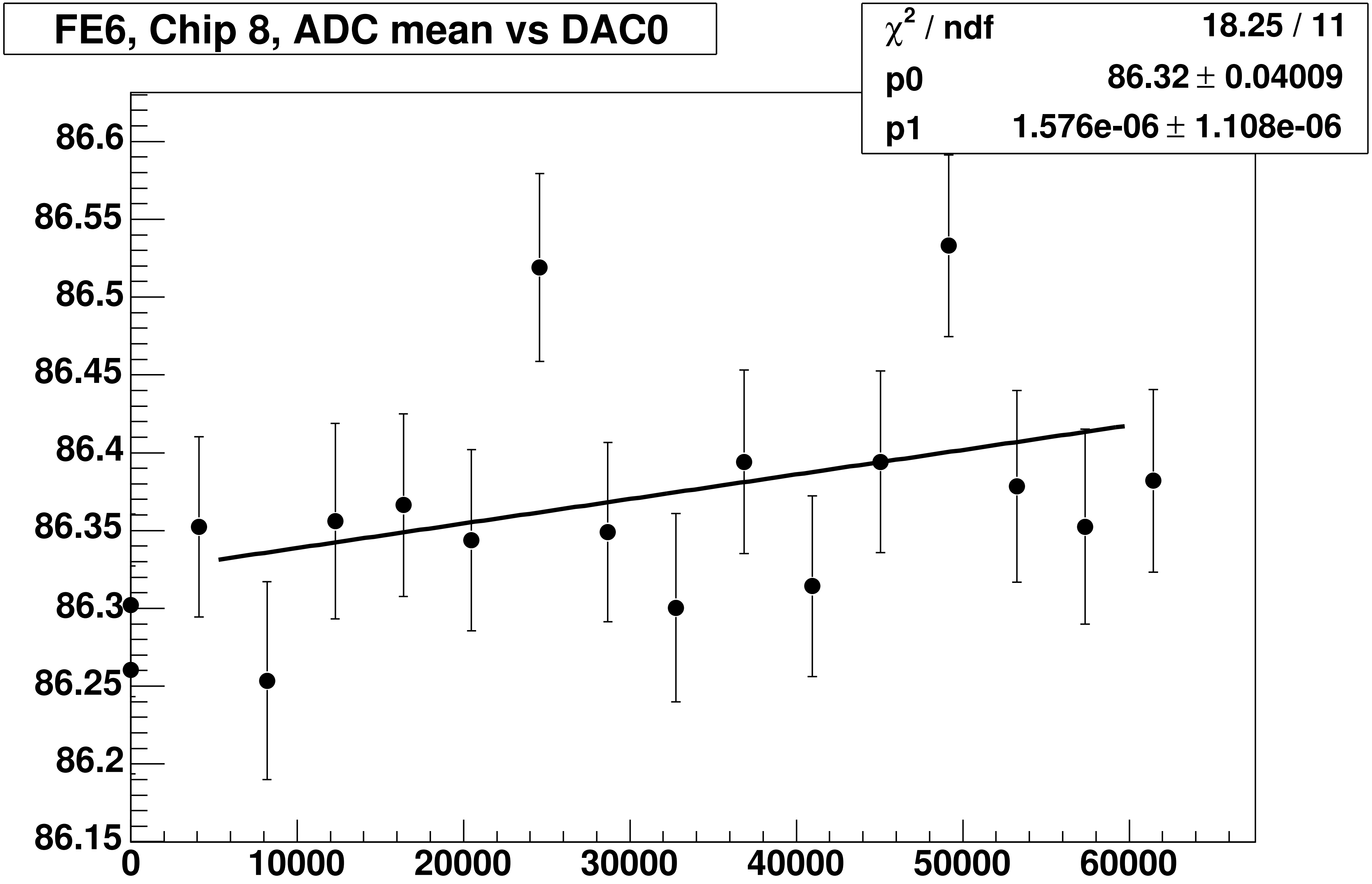

FE6, Chip 7, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



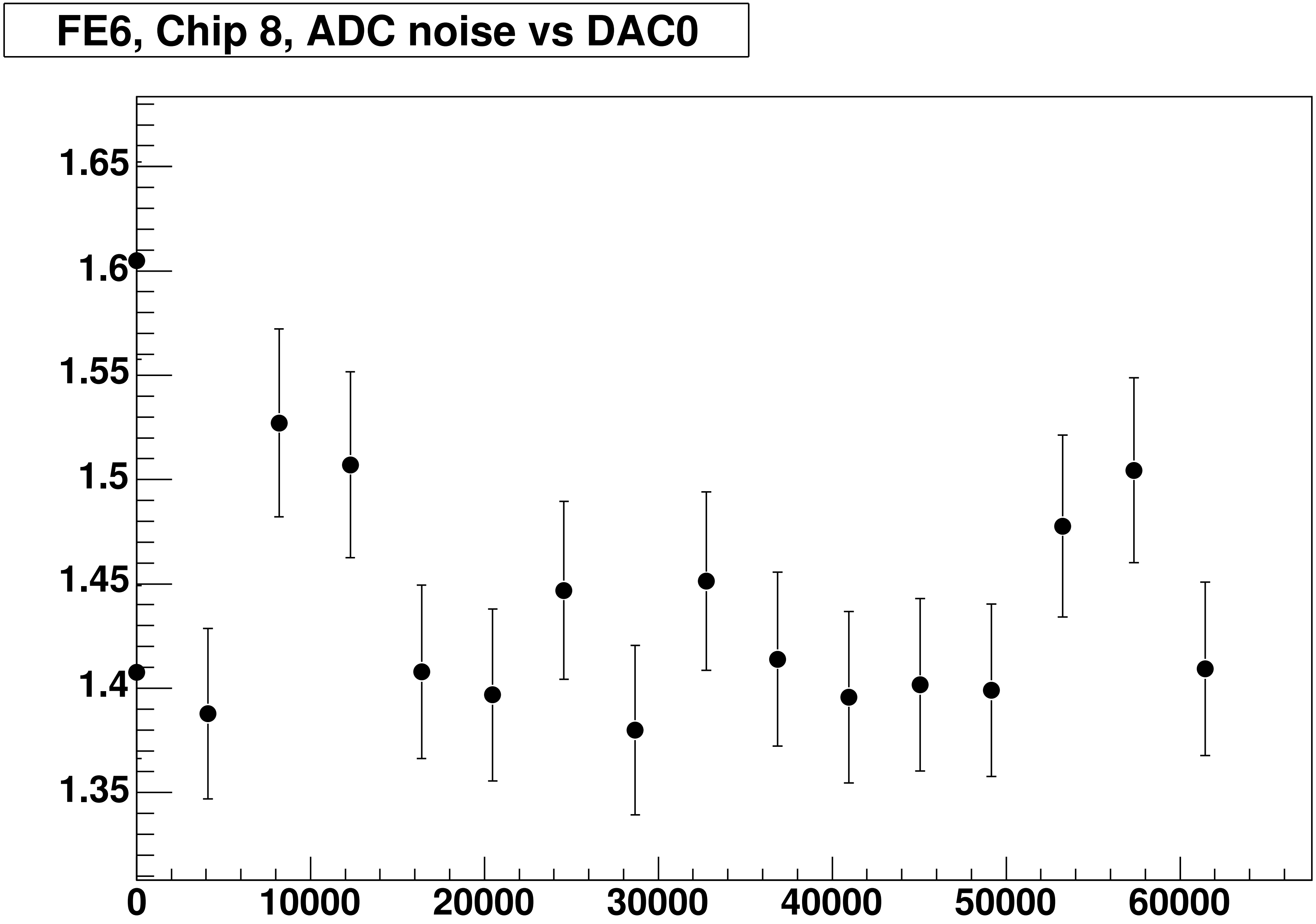
FE6, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1122 / 11
p0 102.8 ± 0.04138
p1 0.4507 ± 1.338e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

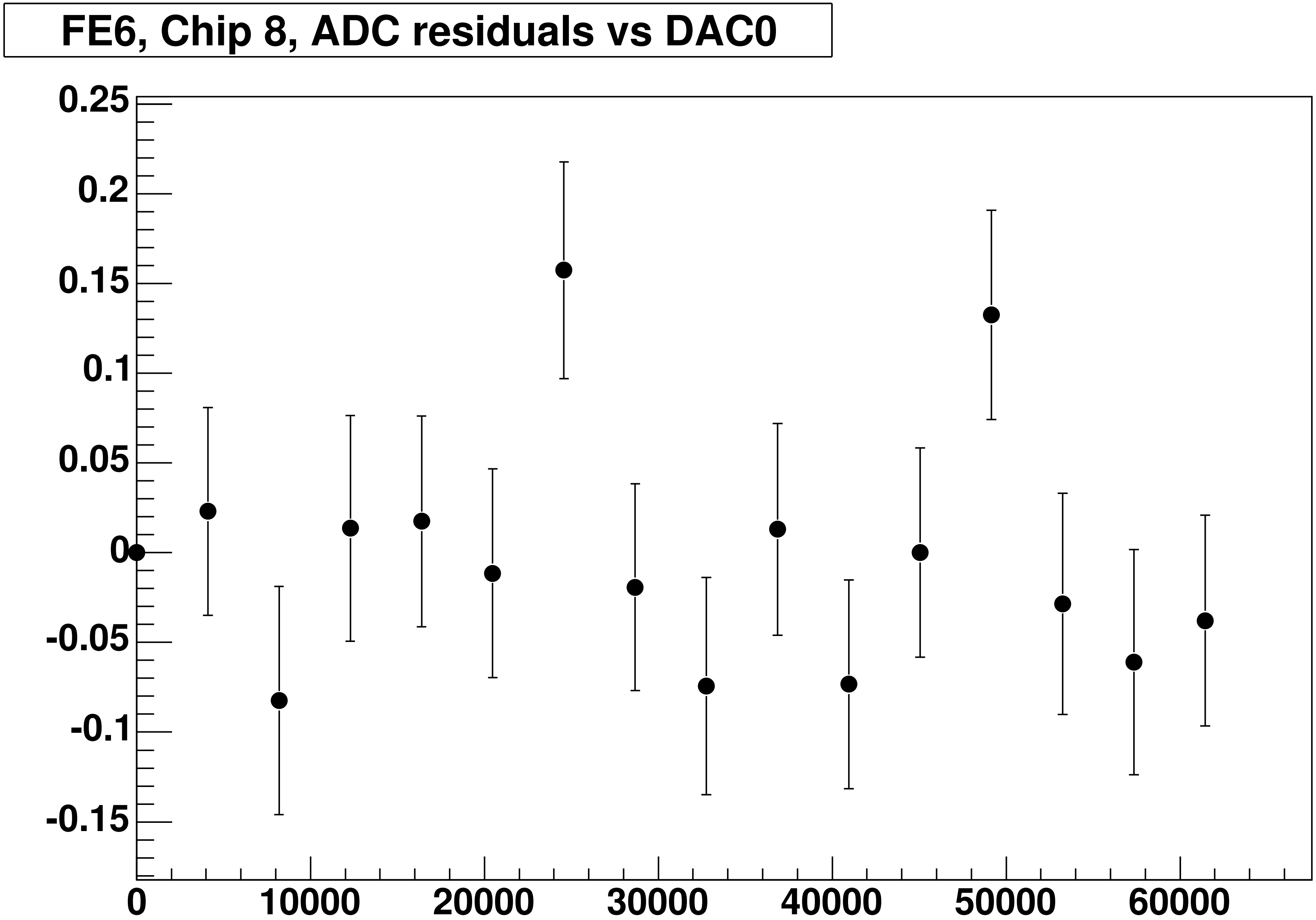

FE6, Chip 7, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

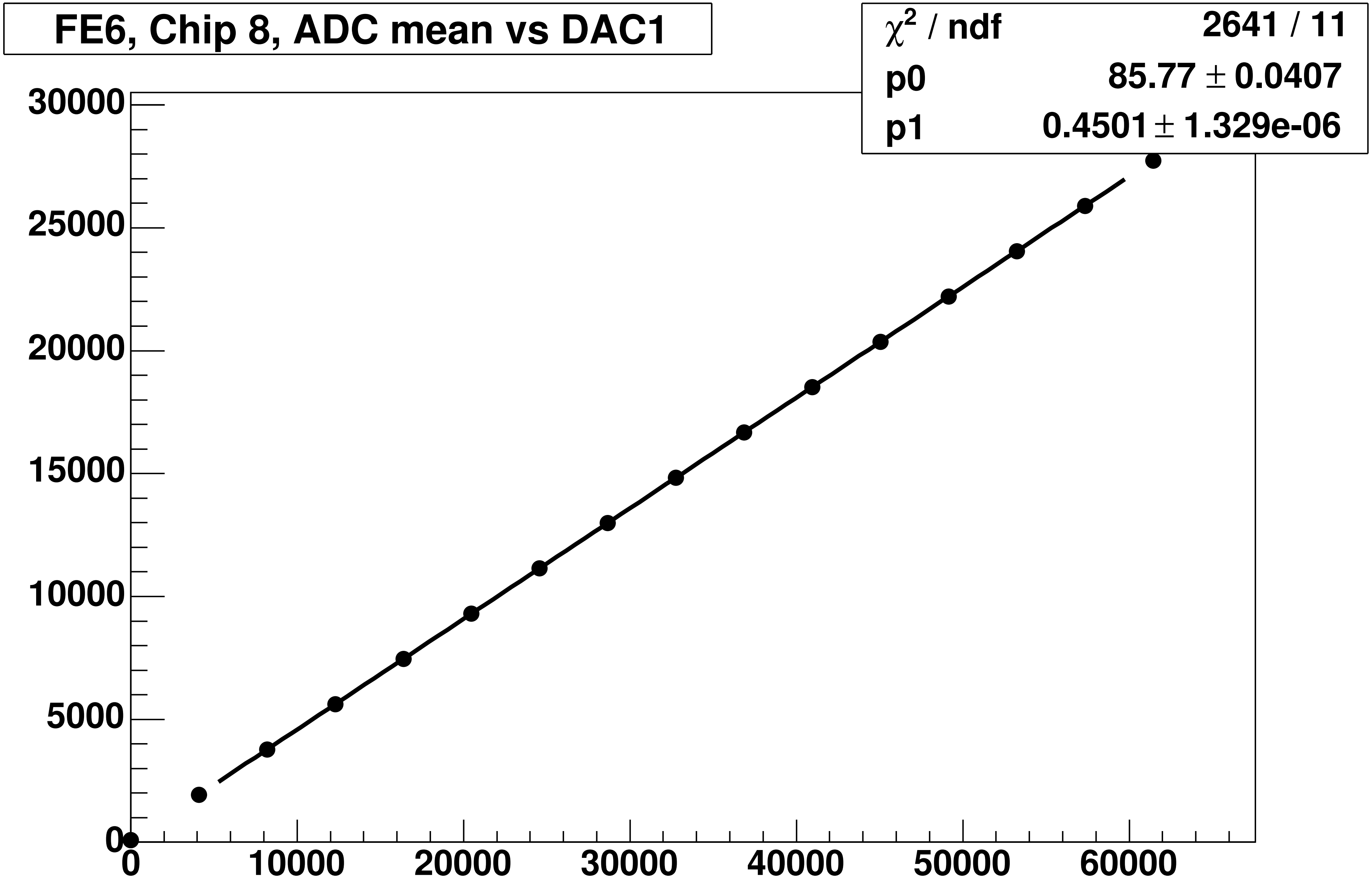

FE6, Chip 7, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000



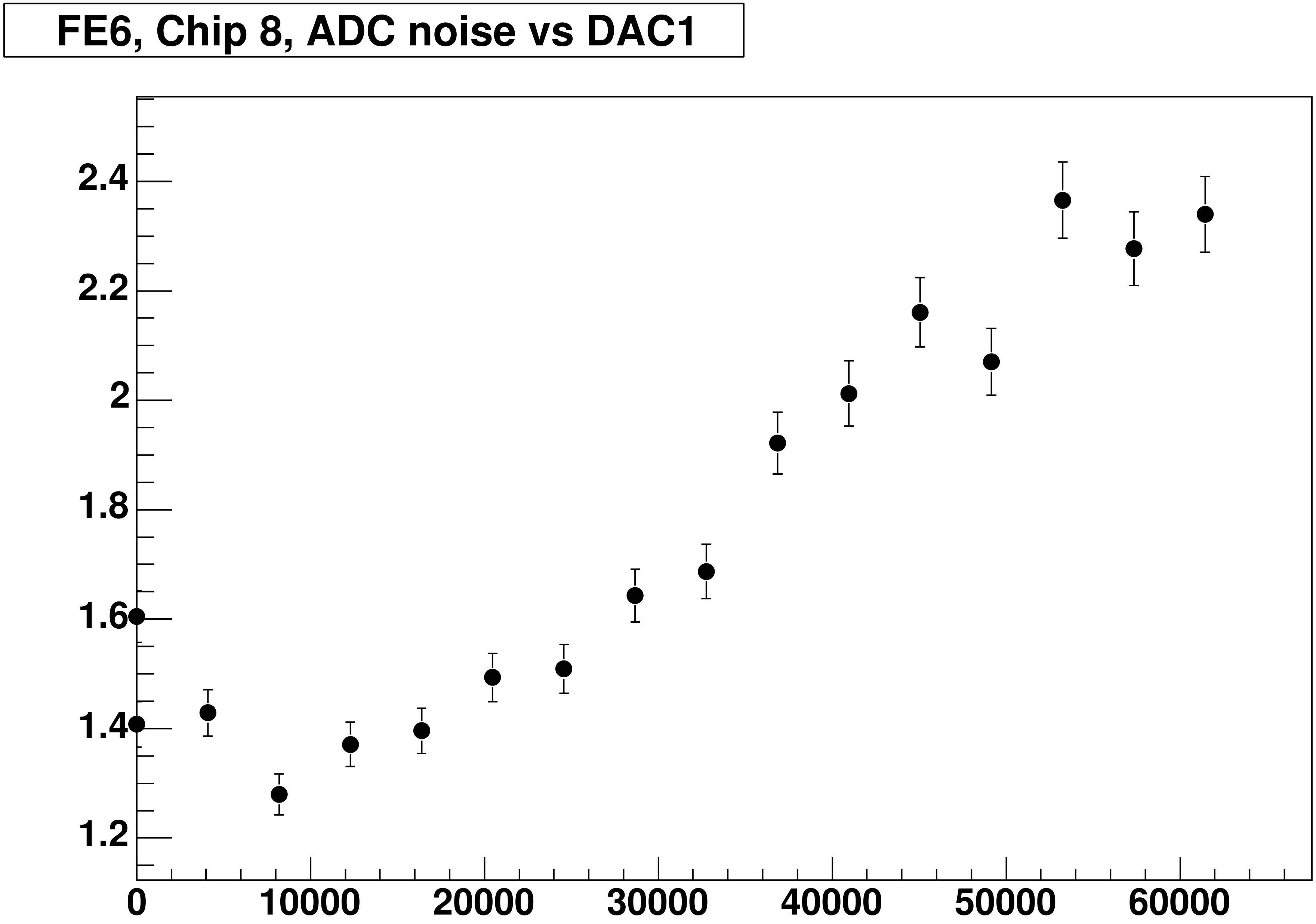
FE6, Chip 8, ADC mean vs DAC0
χ^2 / ndf 18.25 / 11
p0 86.32 ± 0.04009
p1 1.576e-06 ± 1.108e-06
86.6
86.55
86.5
86.45
86.4
86.35
86.3
86.25
86.2
86.15
0
10000
20000
30000
40000
50000
60000

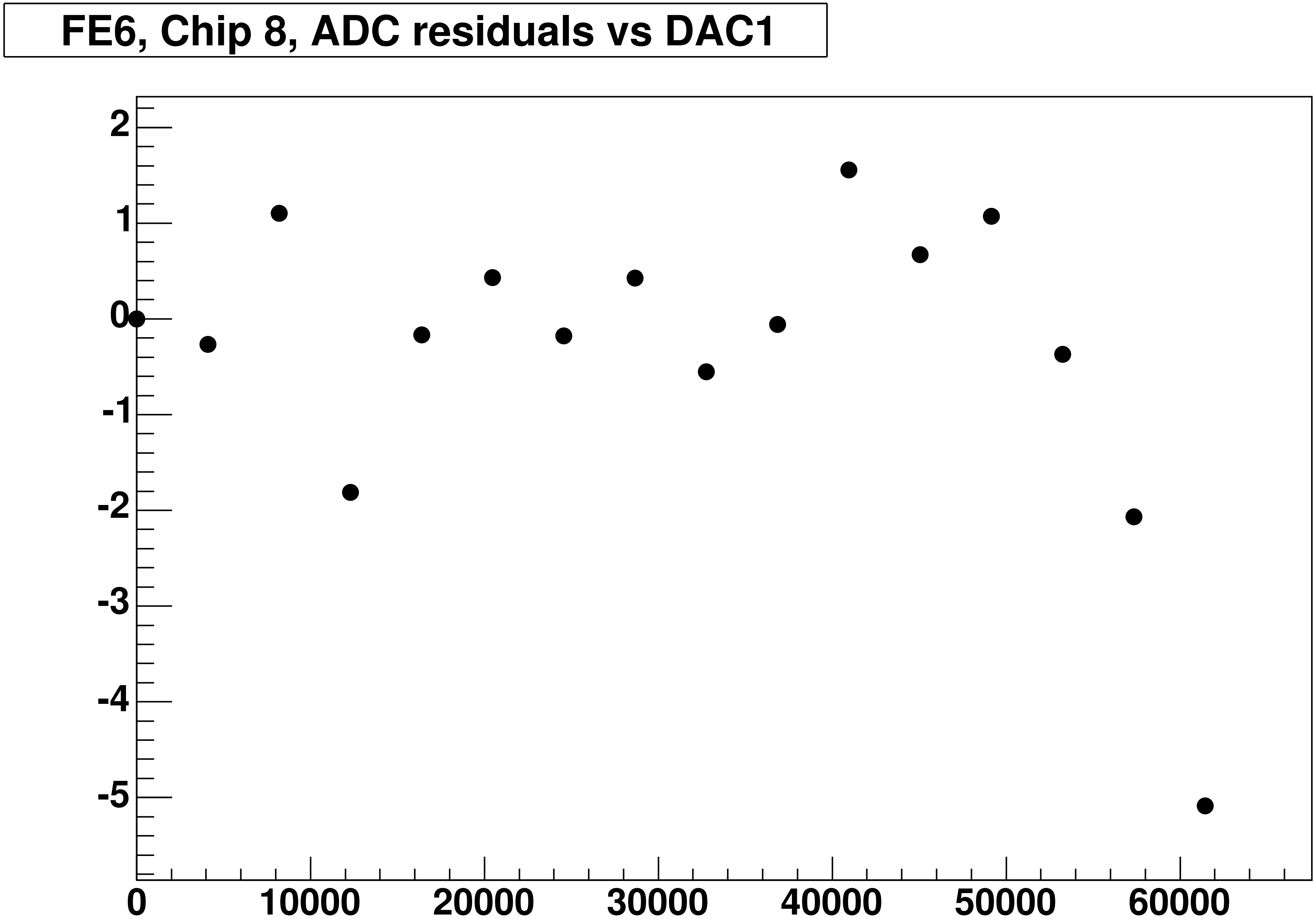

FE6, Chip 8, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

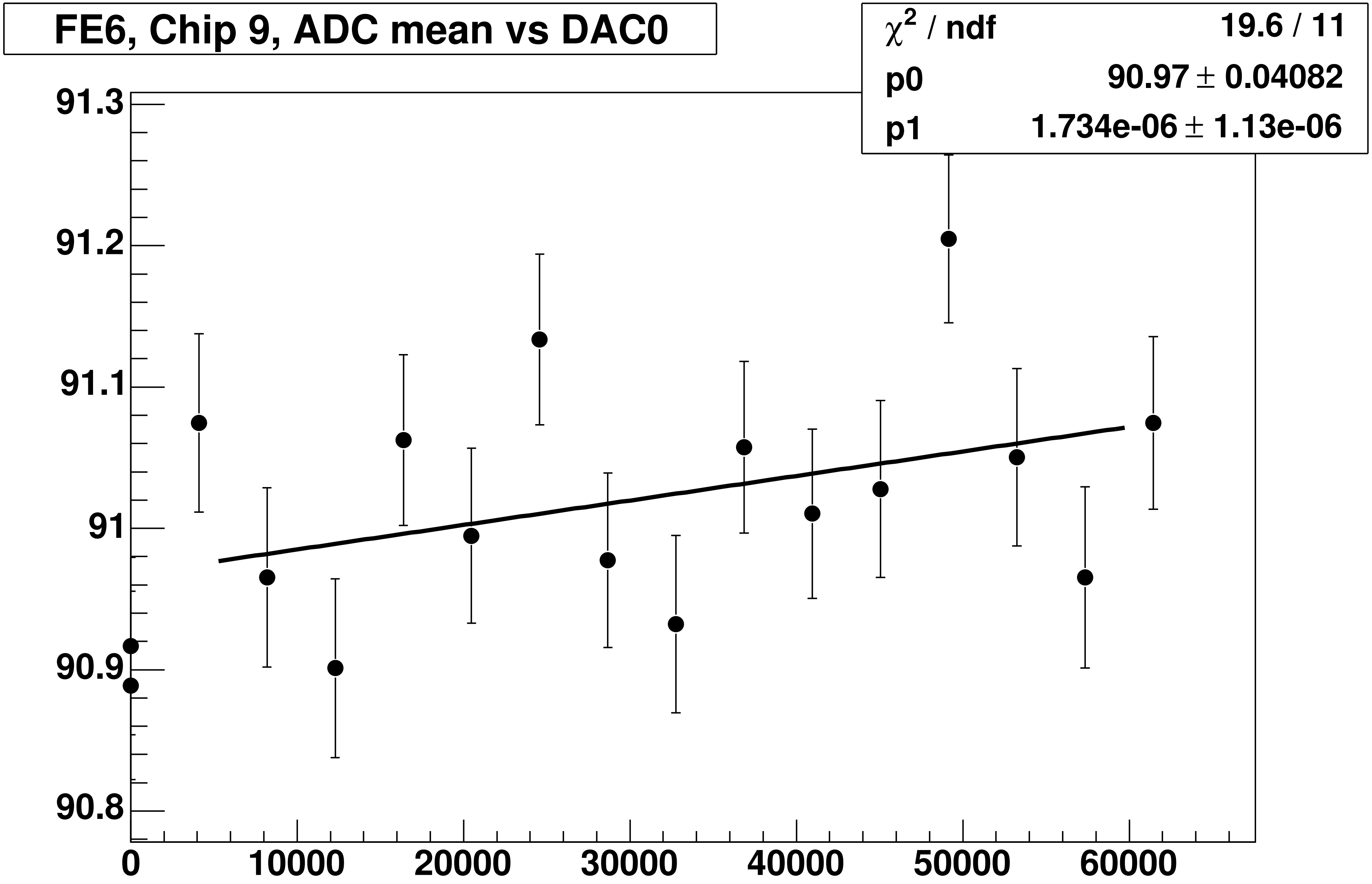

FE6, Chip 8, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000



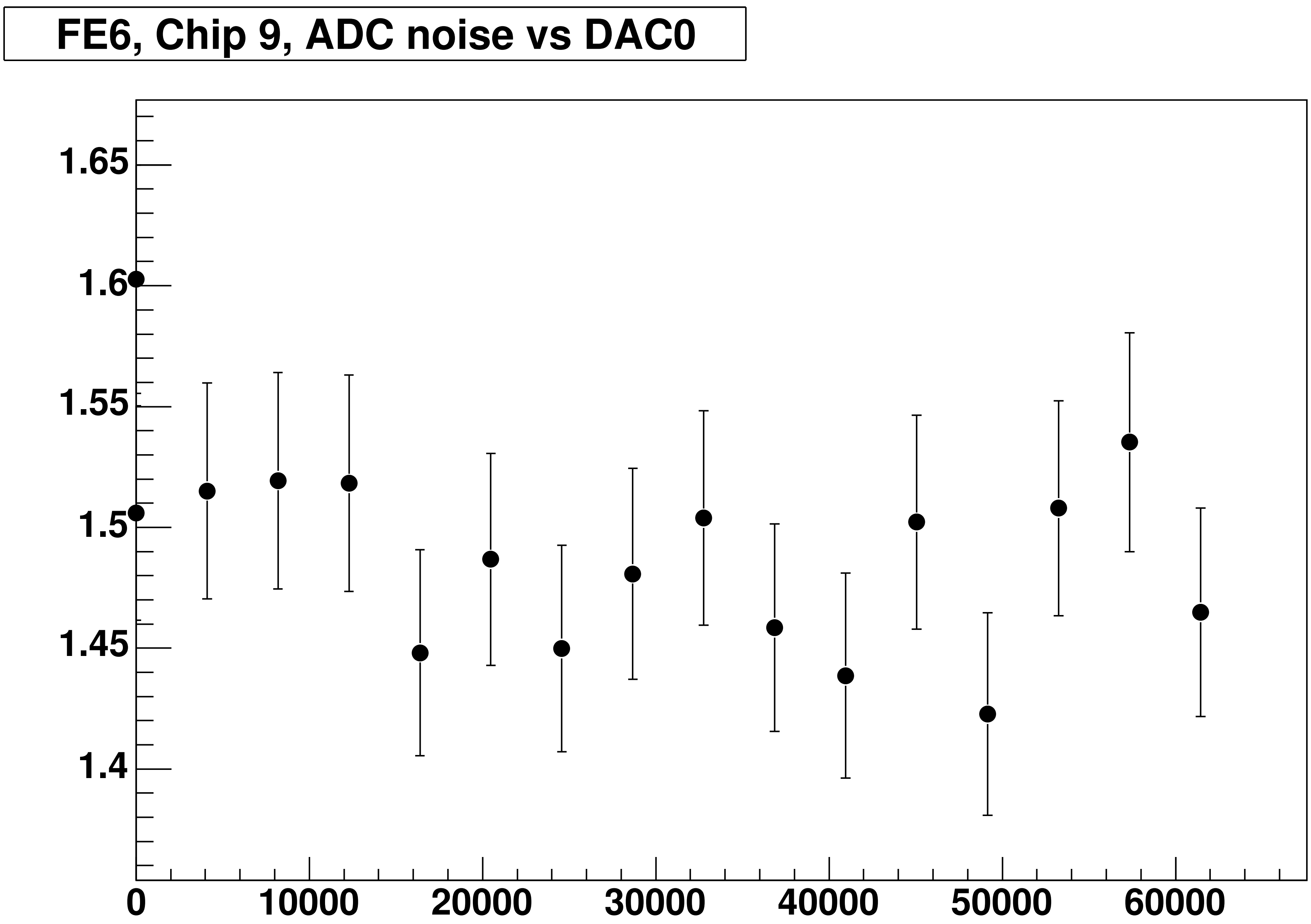
FE6, Chip 8, ADC mean vs DAC1
χ^2 / ndf 2641 / 11
p0 85.77 ± 0.0407
p1 0.4501 ± 1.329e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

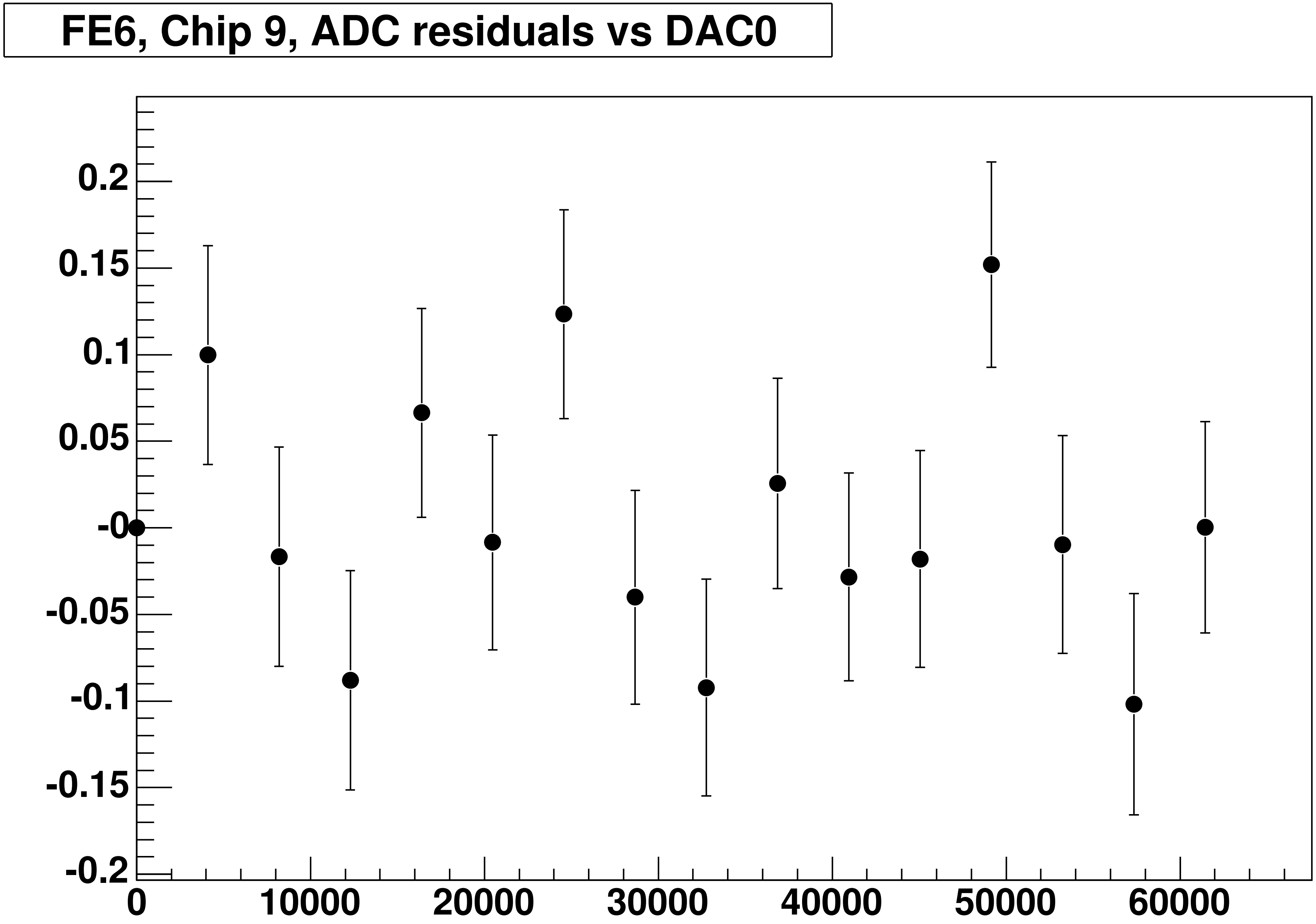

FE6, Chip 8, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

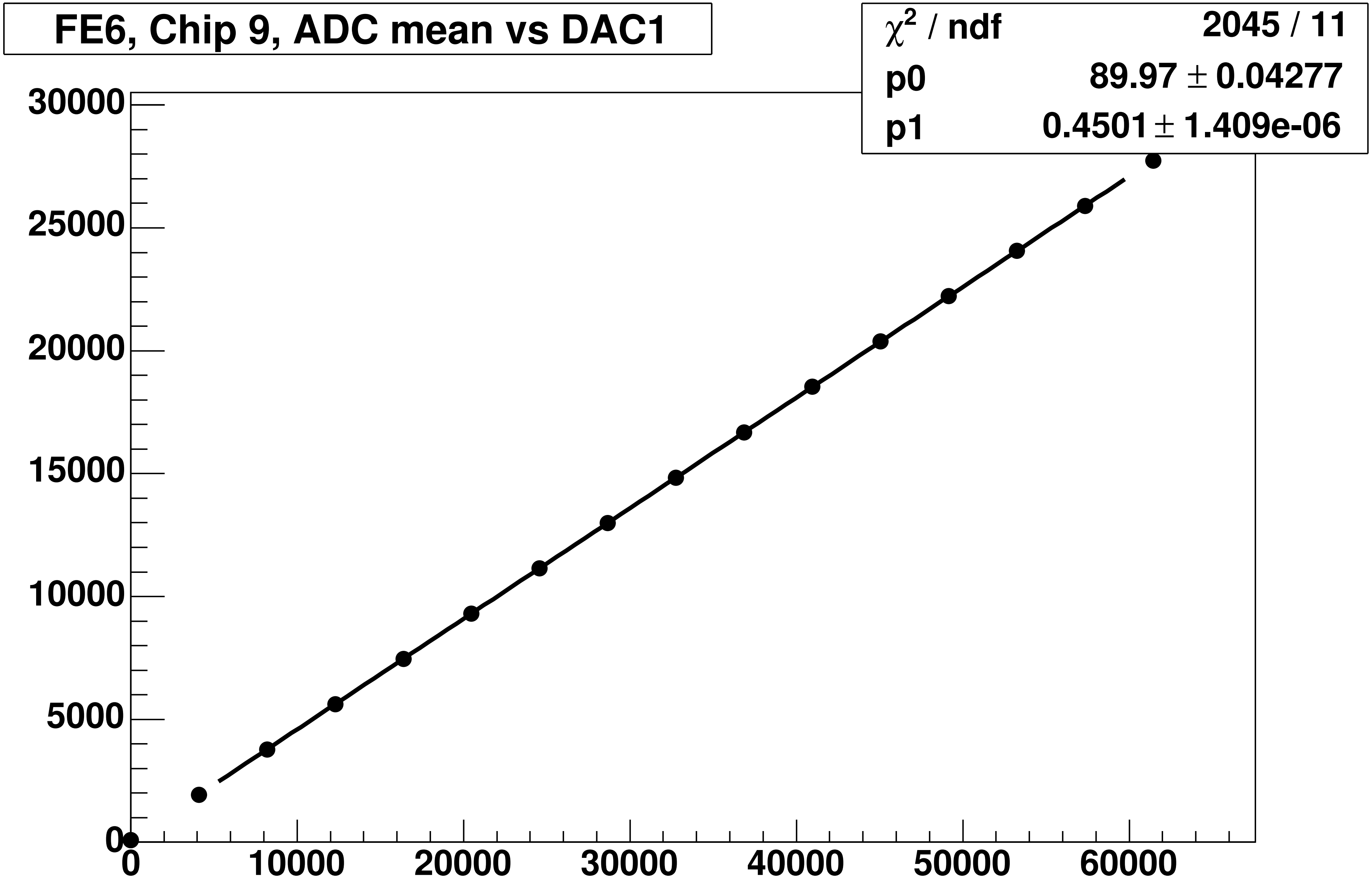

FE6, Chip 8, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000



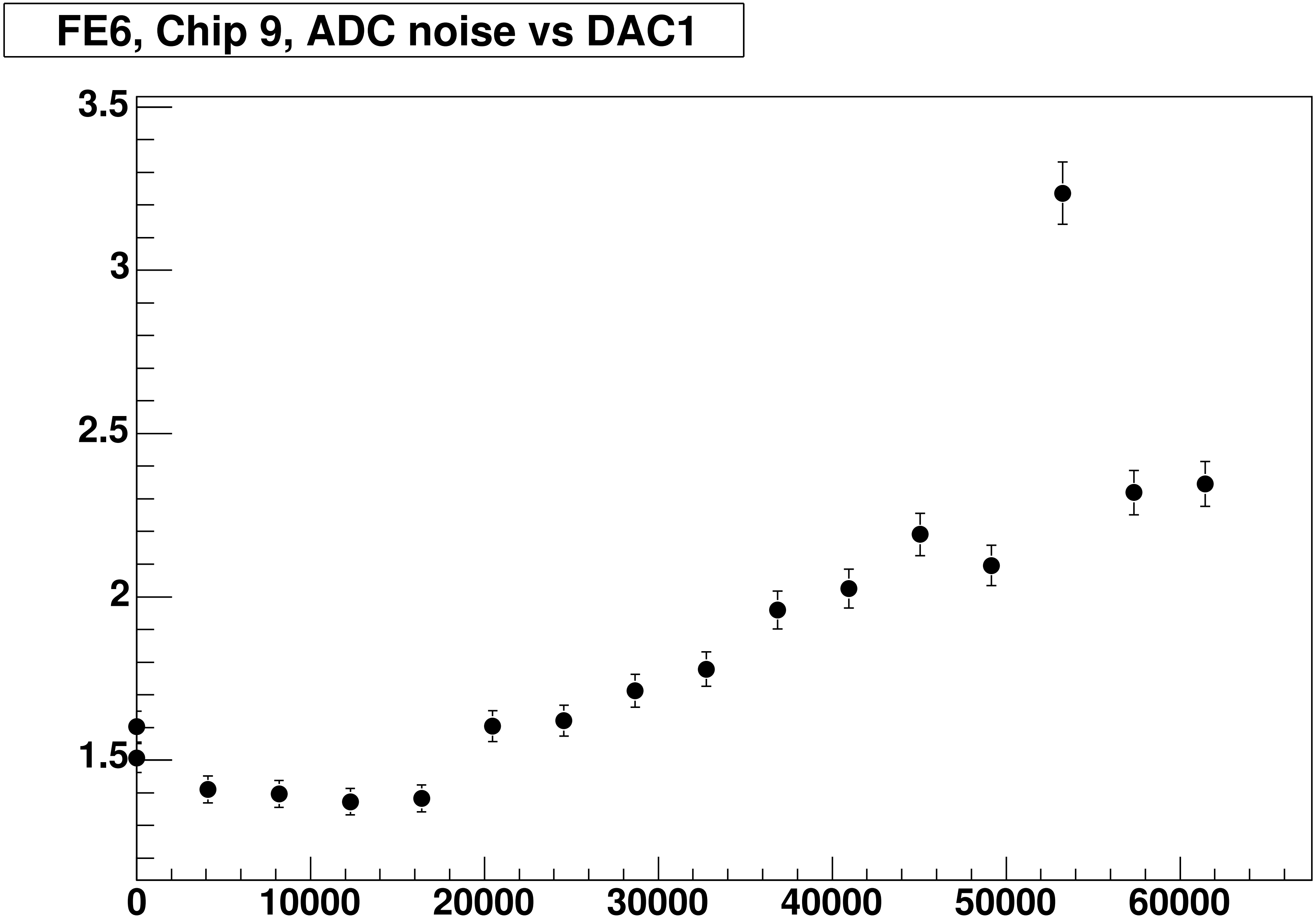
FE6, Chip 9, ADC mean vs DAC0
χ^2 / ndf 19.6 / 11
p0 90.97 ± 0.04082
p1 1.734e-06 ± 1.13e-06
91.3
91.2
91.1
91
90.9
90.8
0
10000
20000
30000
40000
50000
60000

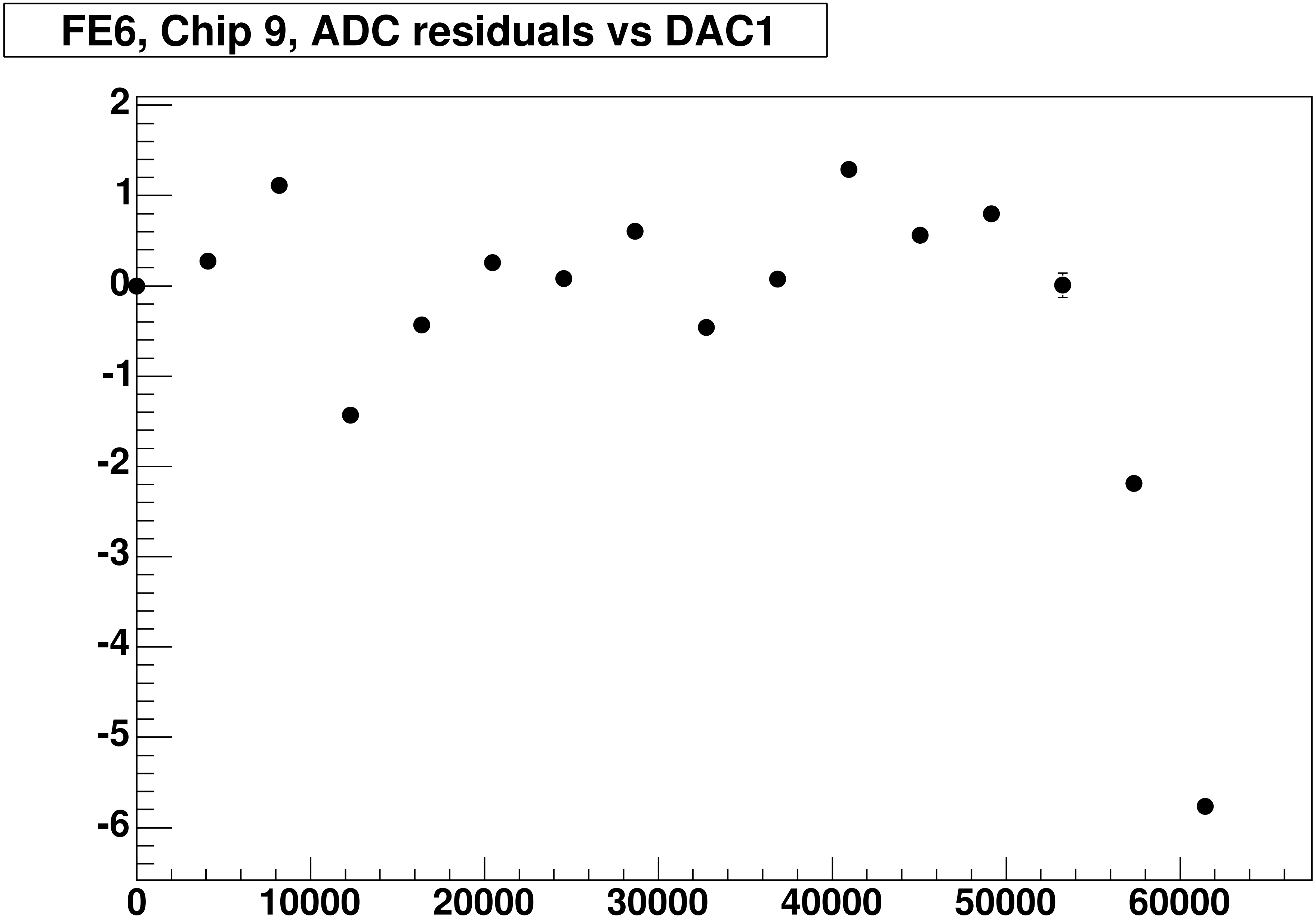

FE6, Chip 9, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

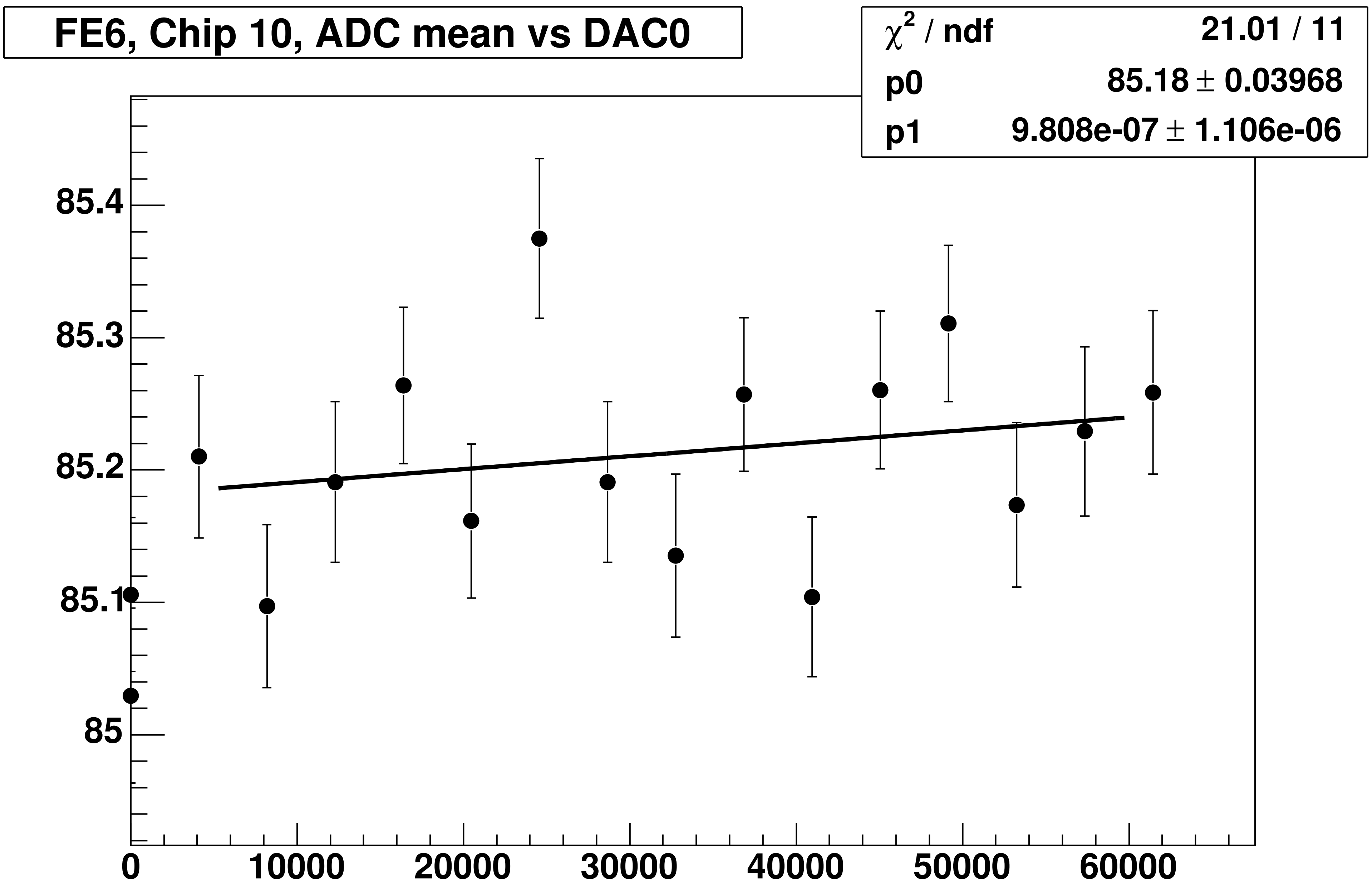

FE6, Chip 9, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



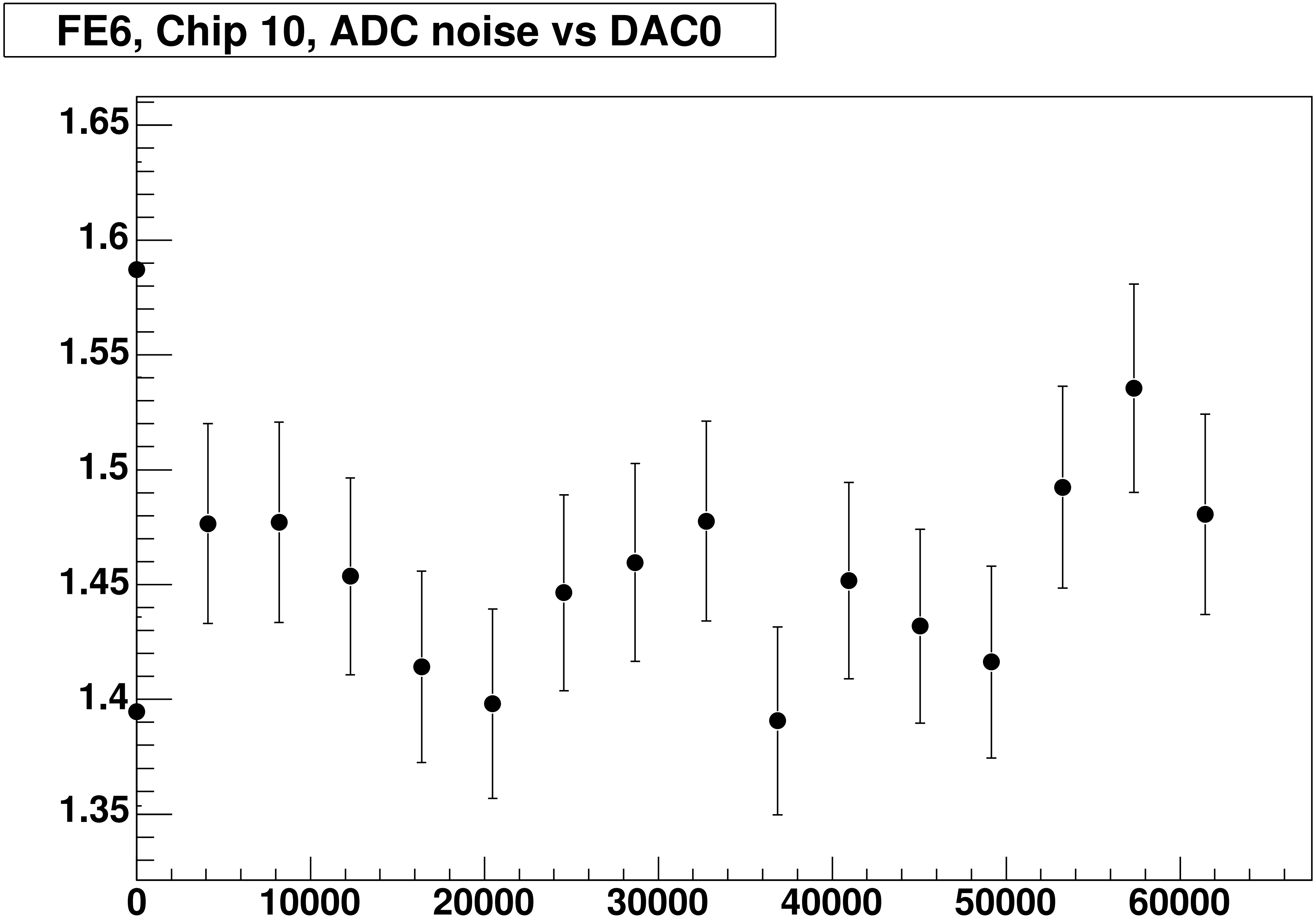
FE6, Chip 9, ADC mean vs DAC1
χ^2 / ndf 2045 / 11
p0 89.97 ± 0.04277
p1 0.4501 ± 1.409e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE6, Chip 9, ADC noise vs DAC1
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000

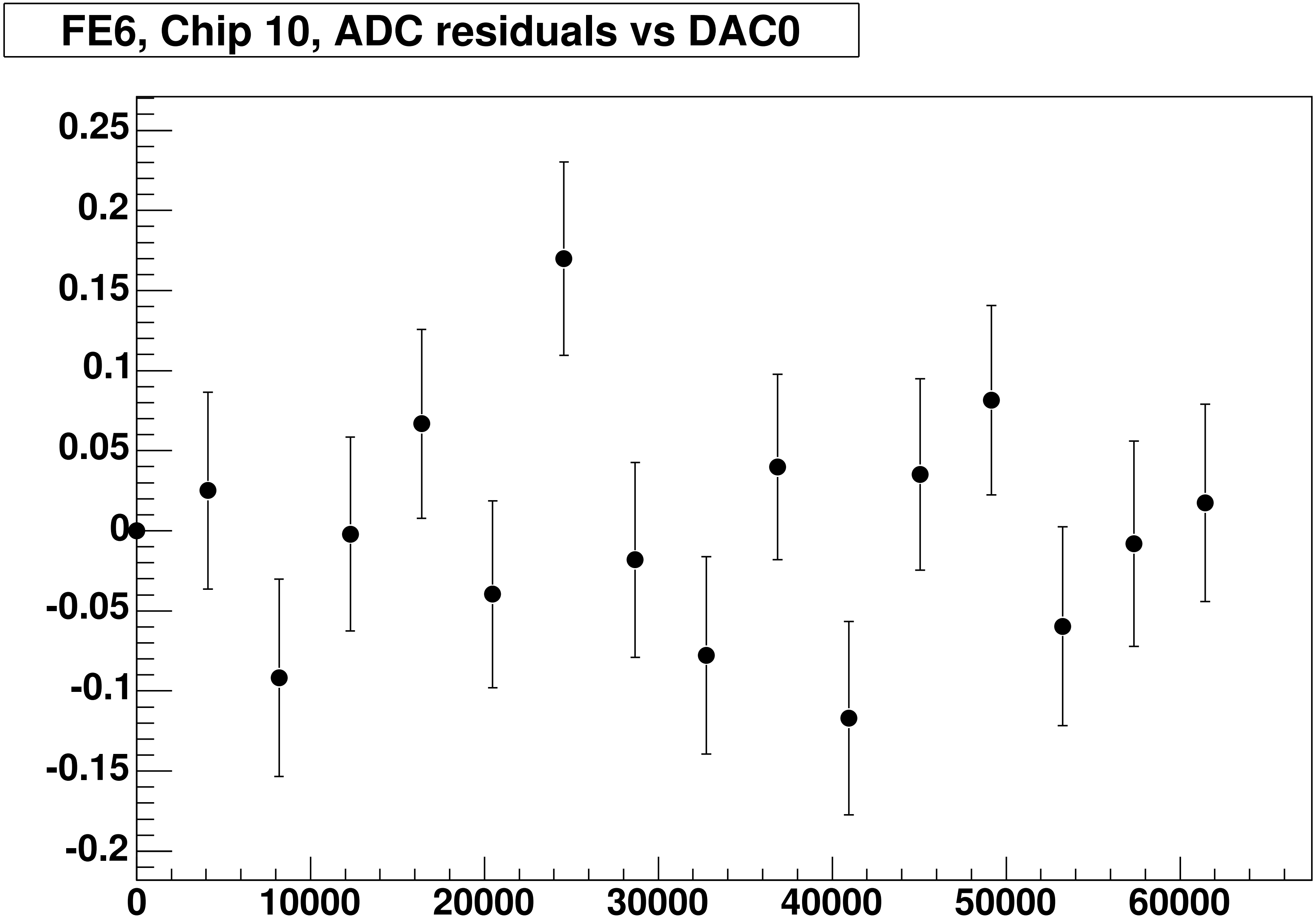

FE6, Chip 9, ADC residuals vs DAC1
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



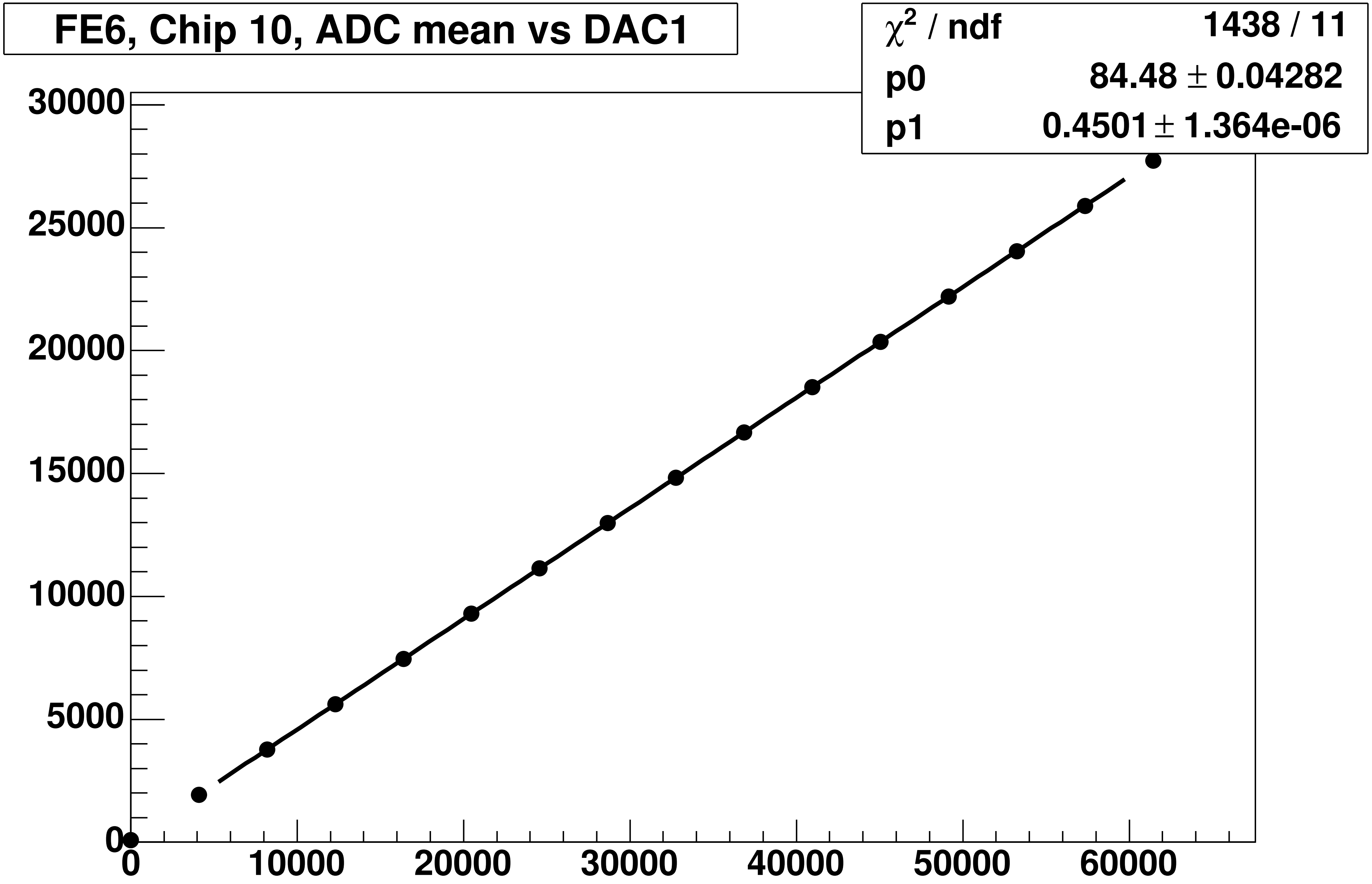
FE6, Chip 10, ADC mean vs DAC0
χ^2 / ndf 21.01 / 11
p0 85.18 ± 0.03968
p1 9.808e-07 ± 1.106e-06
85.4
85.3
85.2
85.1
85
0
10000
20000
30000
40000
50000
60000



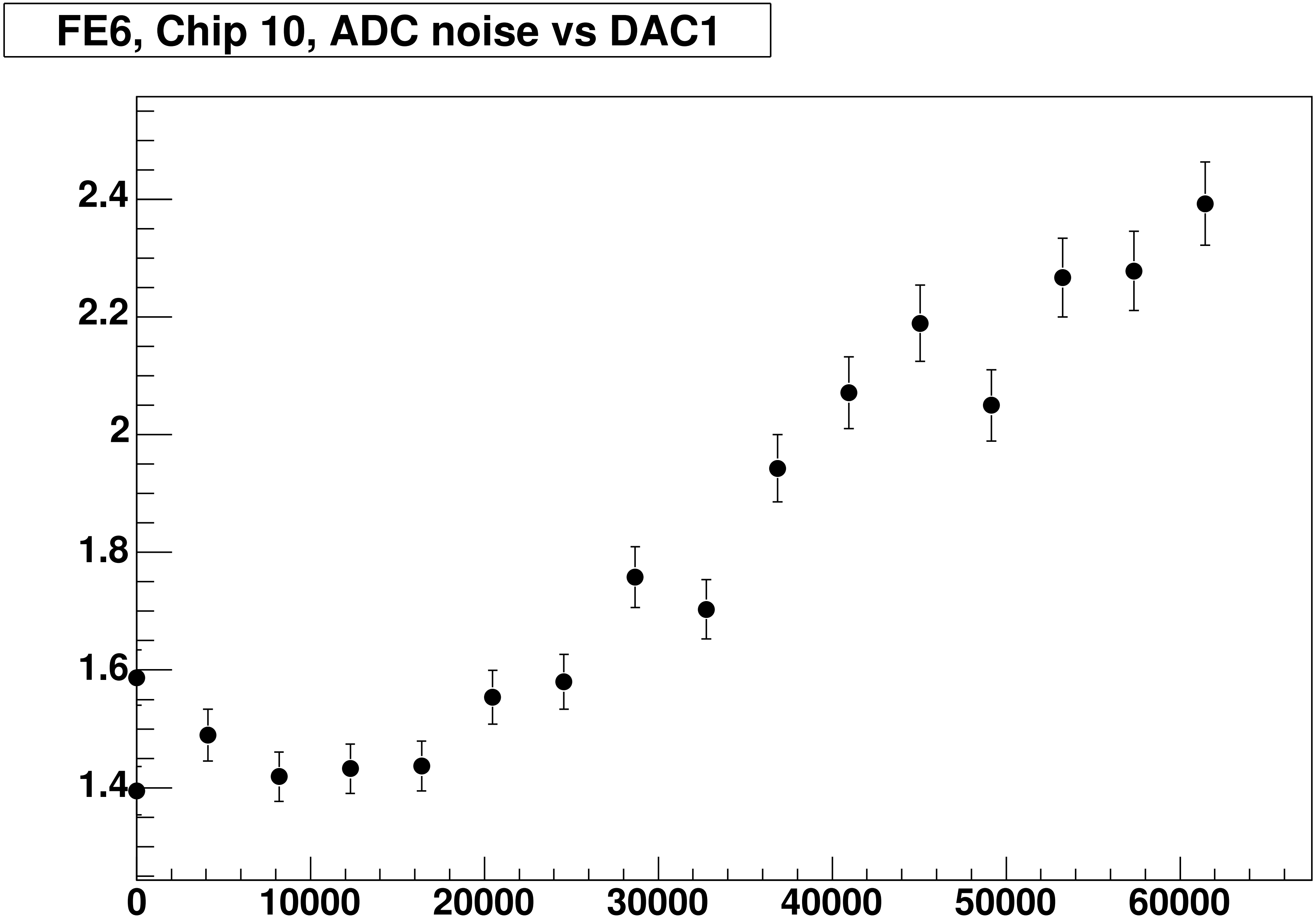
FE6, Chip 10, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

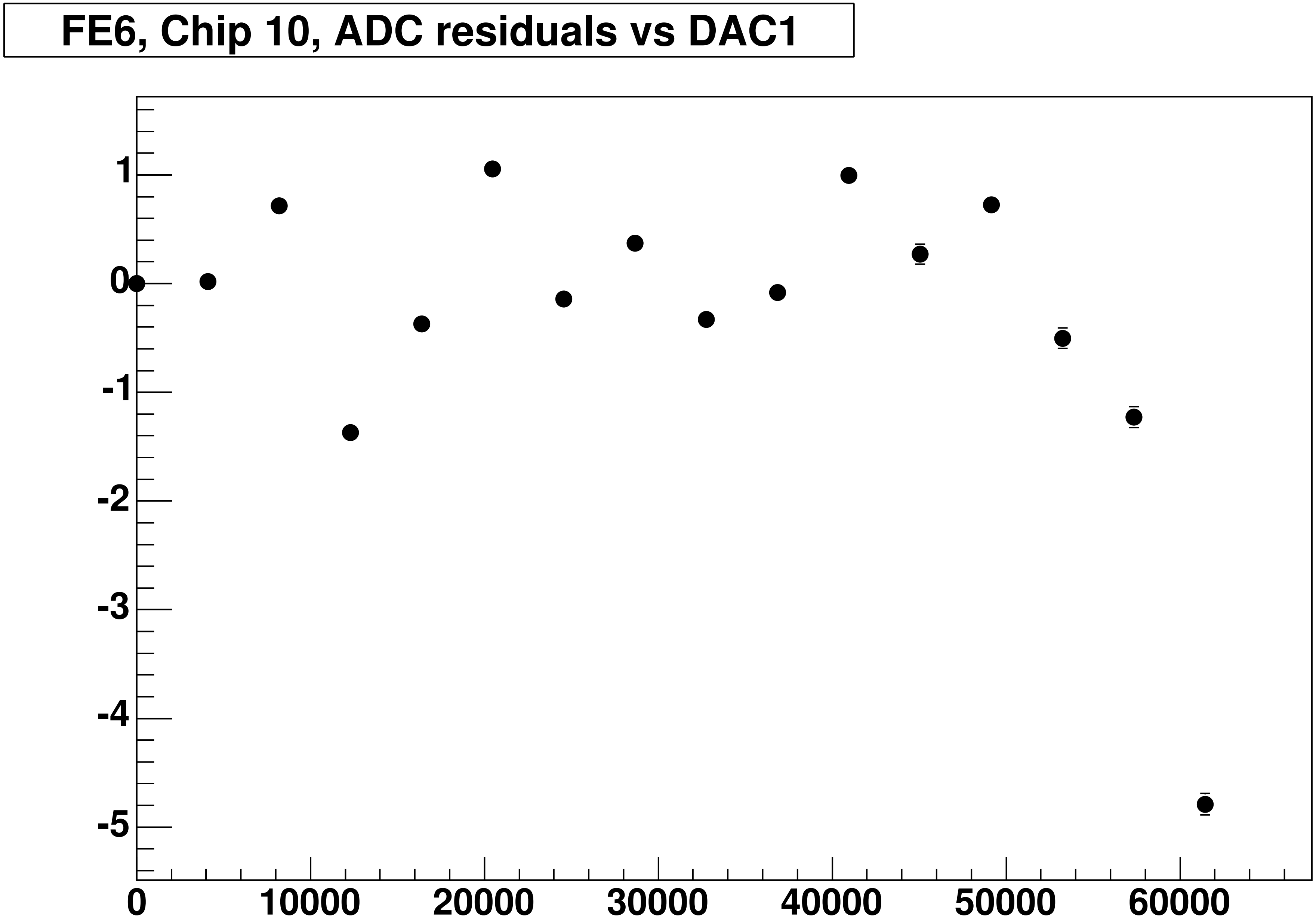


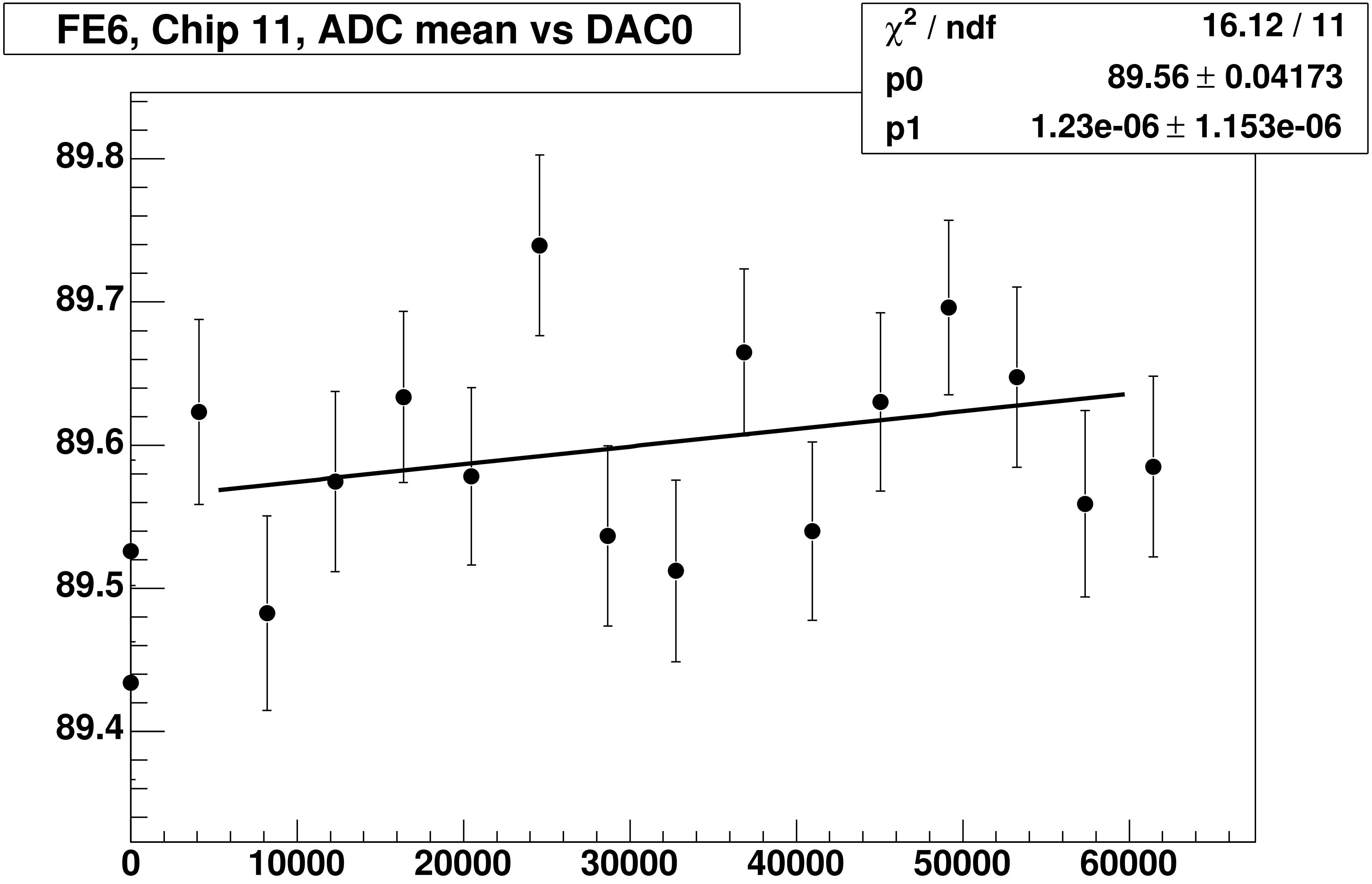
FE6, Chip 10, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
10000
20000
30000
40000
50000
60000



FE6, Chip 10, ADC mean vs DAC1
χ^2 / ndf 1438 / 11
p0 84.48 ± 0.04282
p1 0.4501 ± 1.364e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

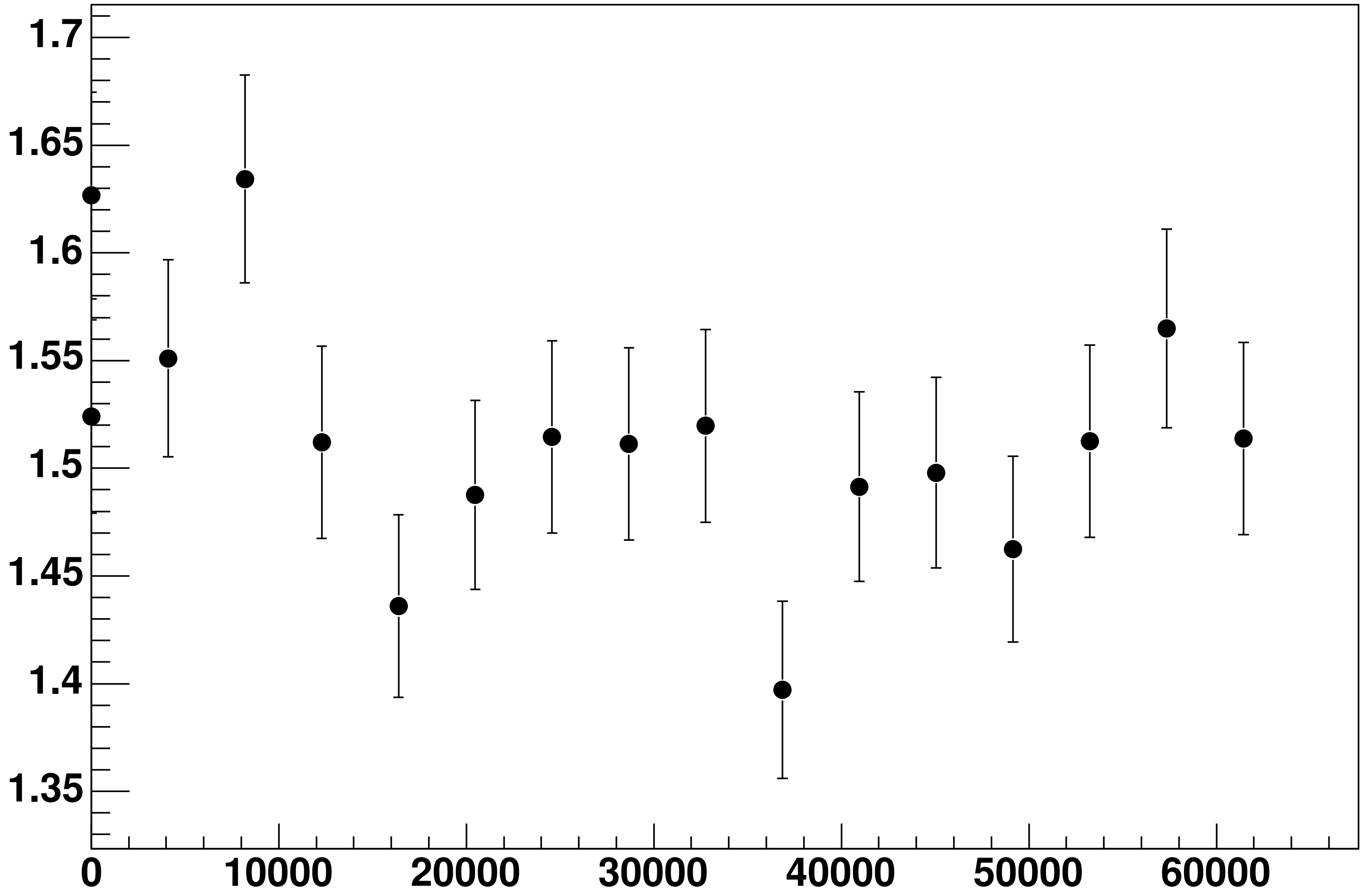

FE6, Chip 10, ADC noise vs DAC1
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

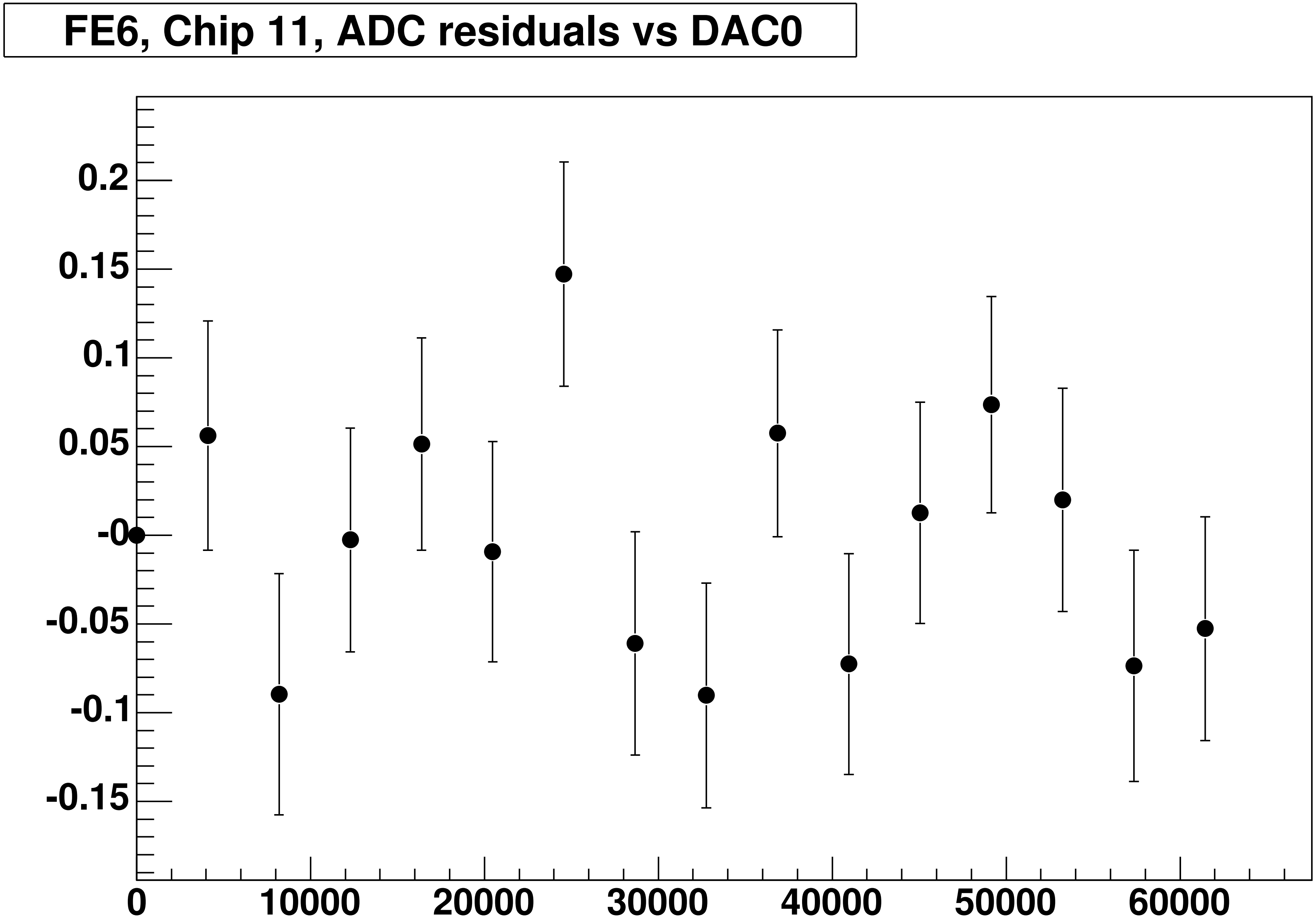

FE6, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

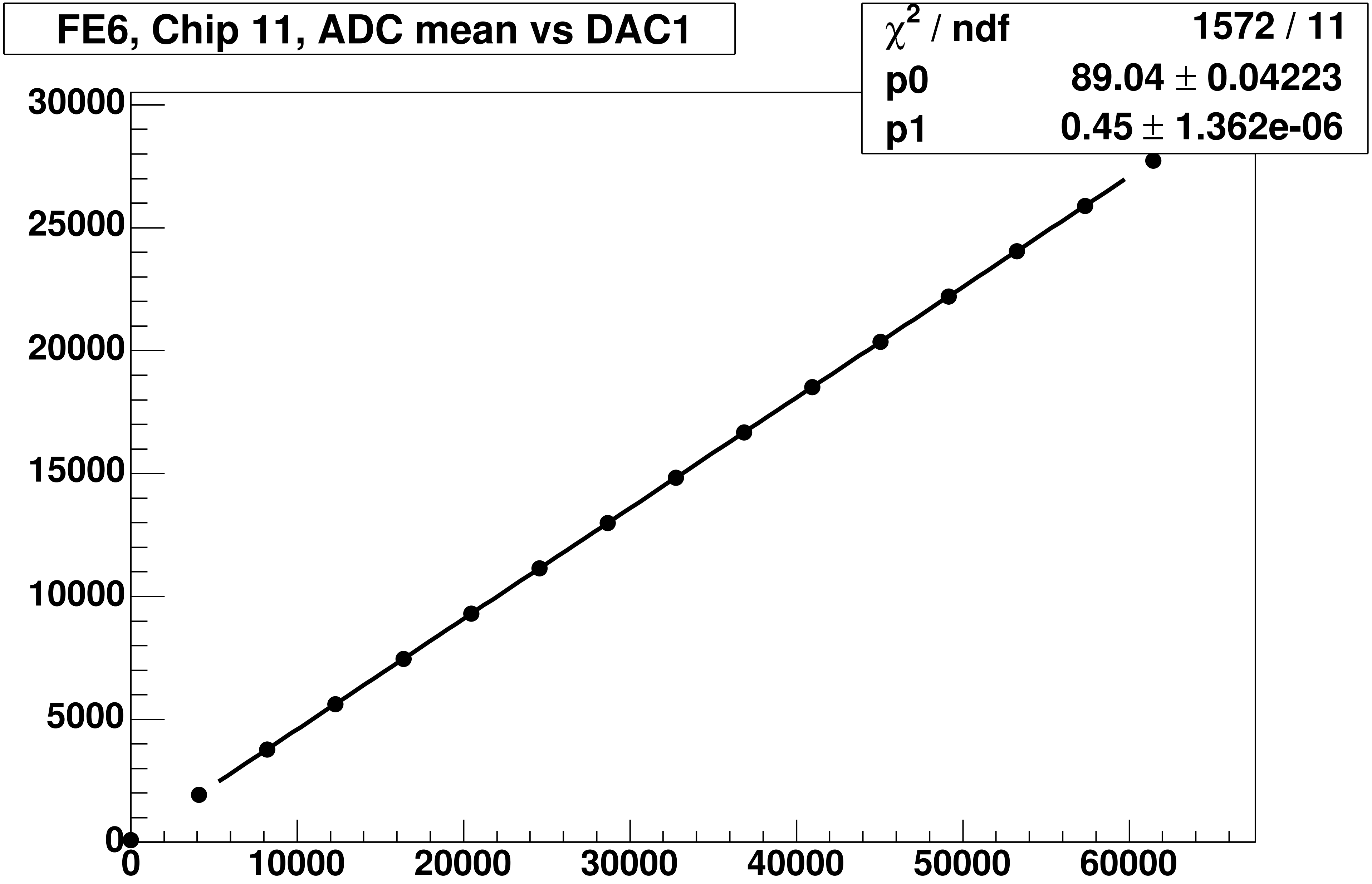


FE6, Chip 11, ADC mean vs DAC0
χ^2 / ndf 16.12 / 11
p0 89.56 ± 0.04173
p1 1.23e-06 ± 1.153e-06
89.8
89.7
89.6
89.5
89.4
0
10000
20000
30000
40000
50000
60000

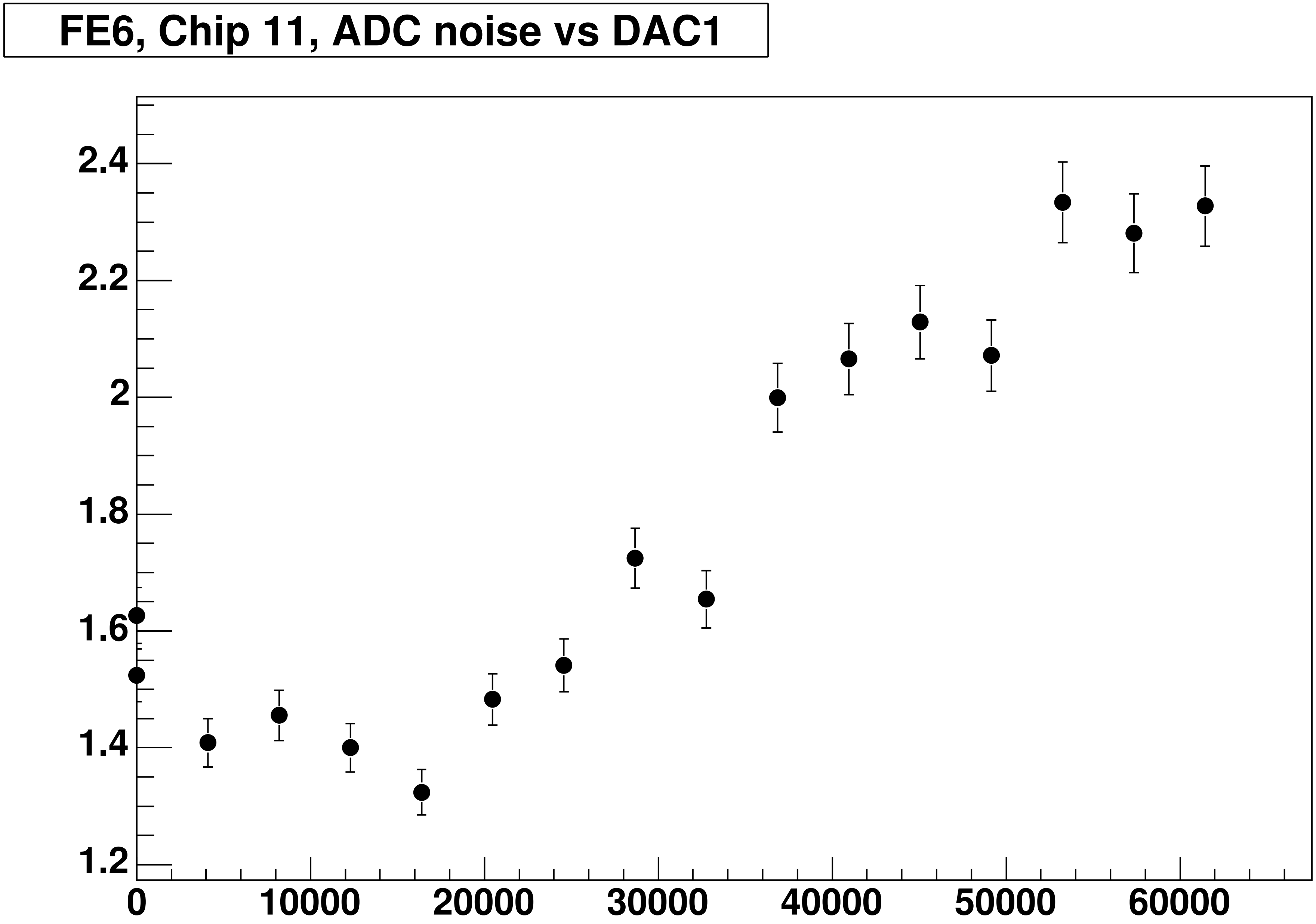
FE6, Chip 11, ADC noise vs DAC0

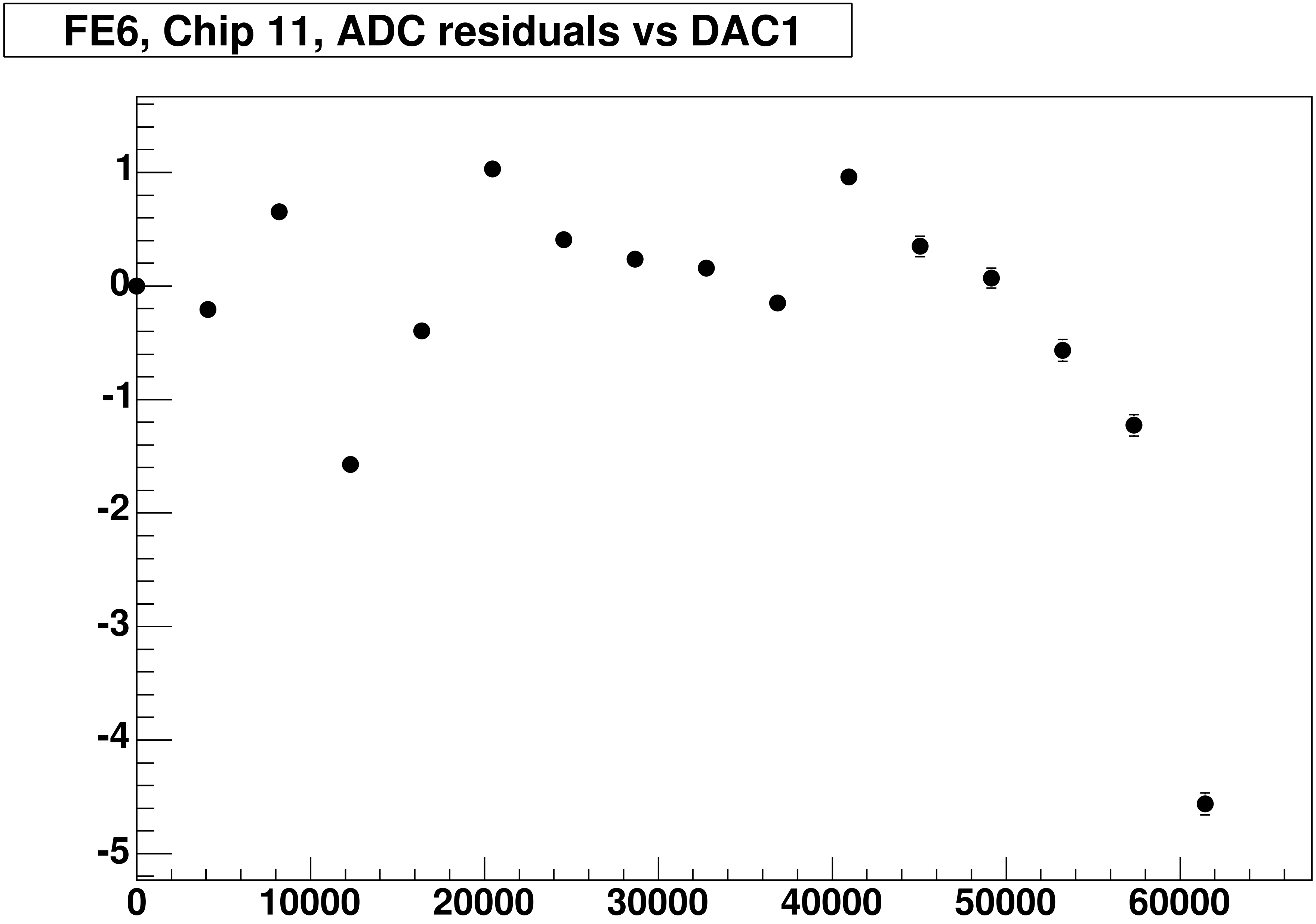


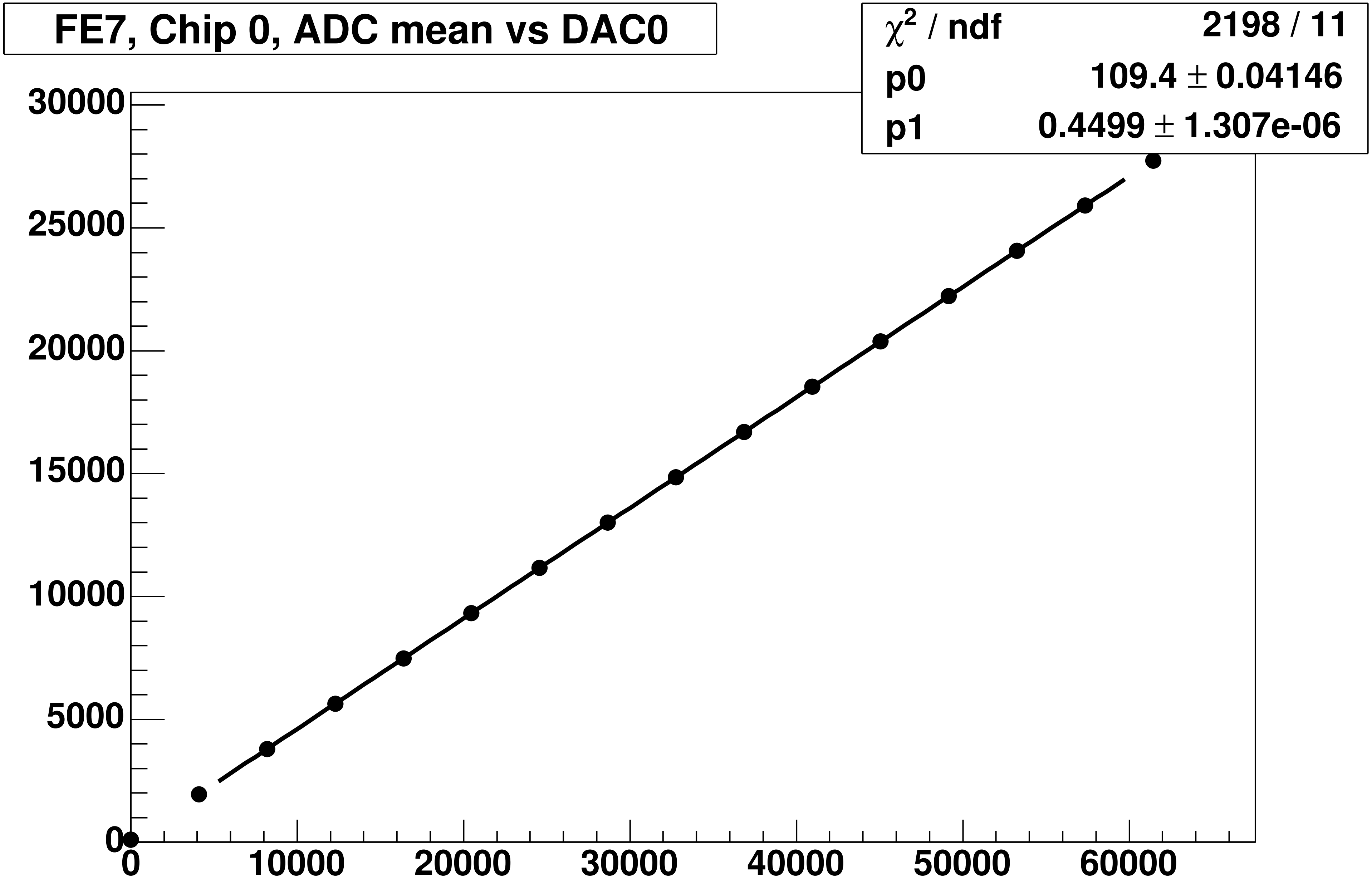

FE6, Chip 11, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
10000
20000
30000
40000
50000
60000

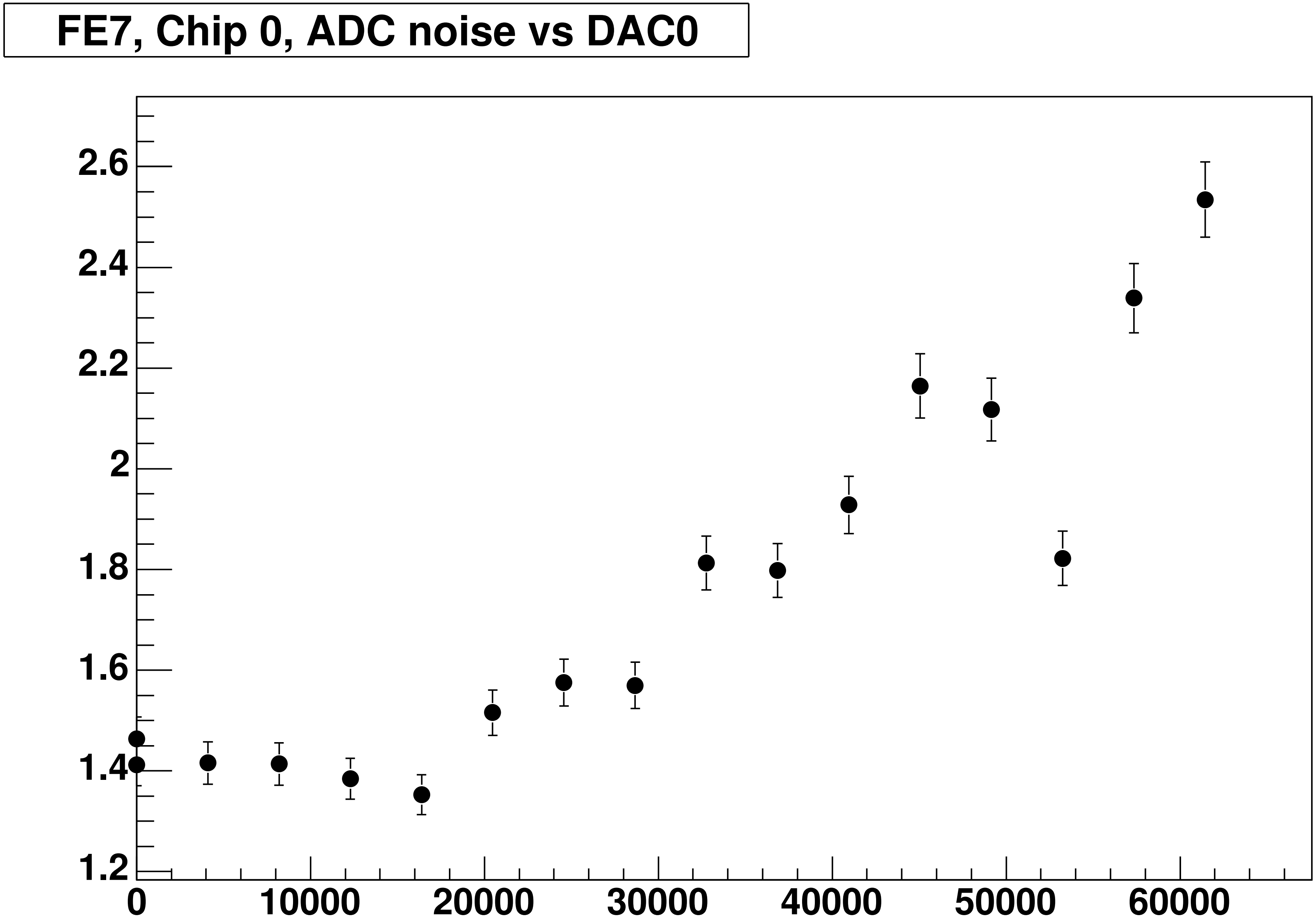


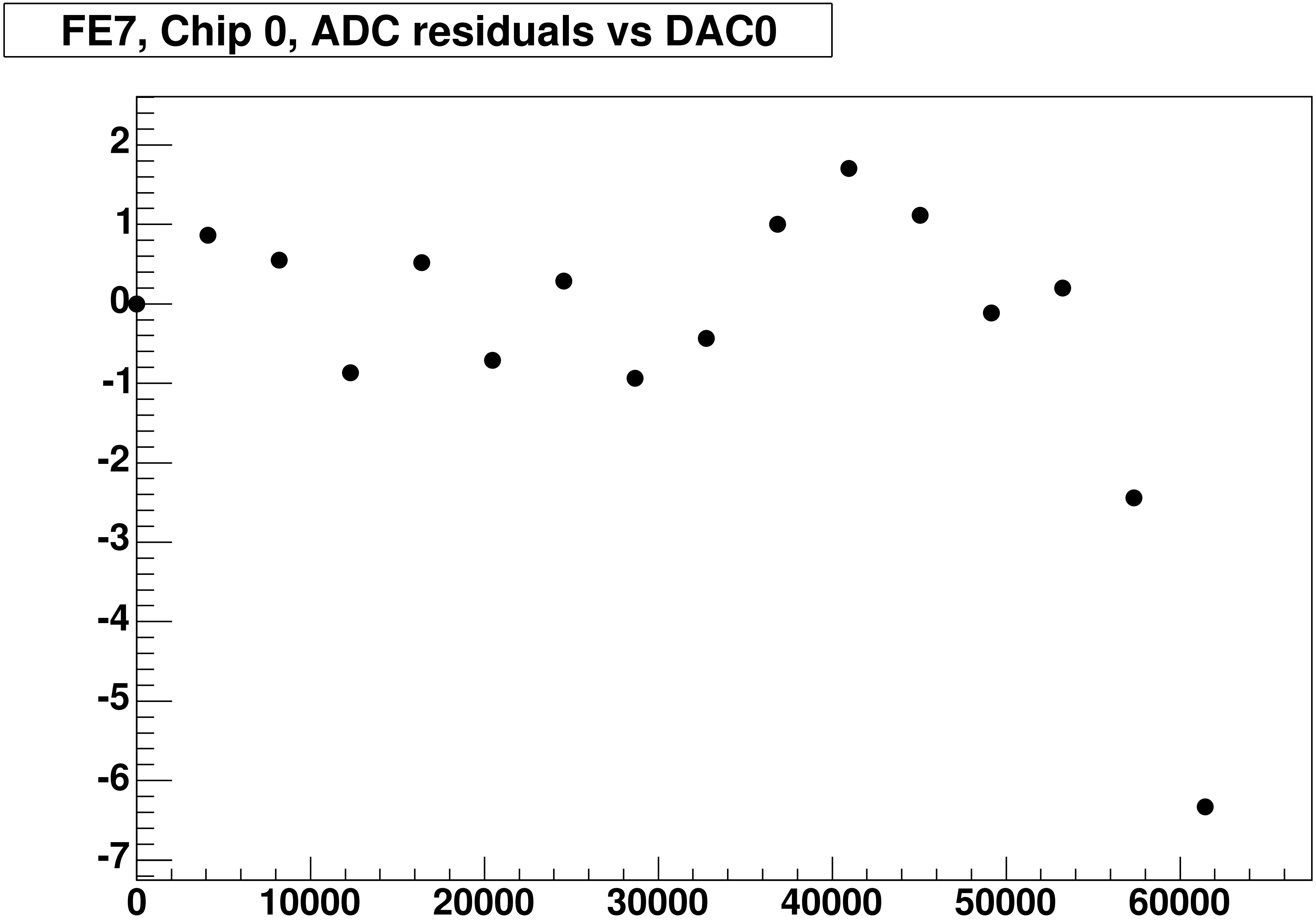
FE6, Chip 11, ADC mean vs DAC1
χ^2 / ndf 1572 / 11
p0 89.04 ± 0.04223
p1 0.45 ± 1.362e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE6, 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

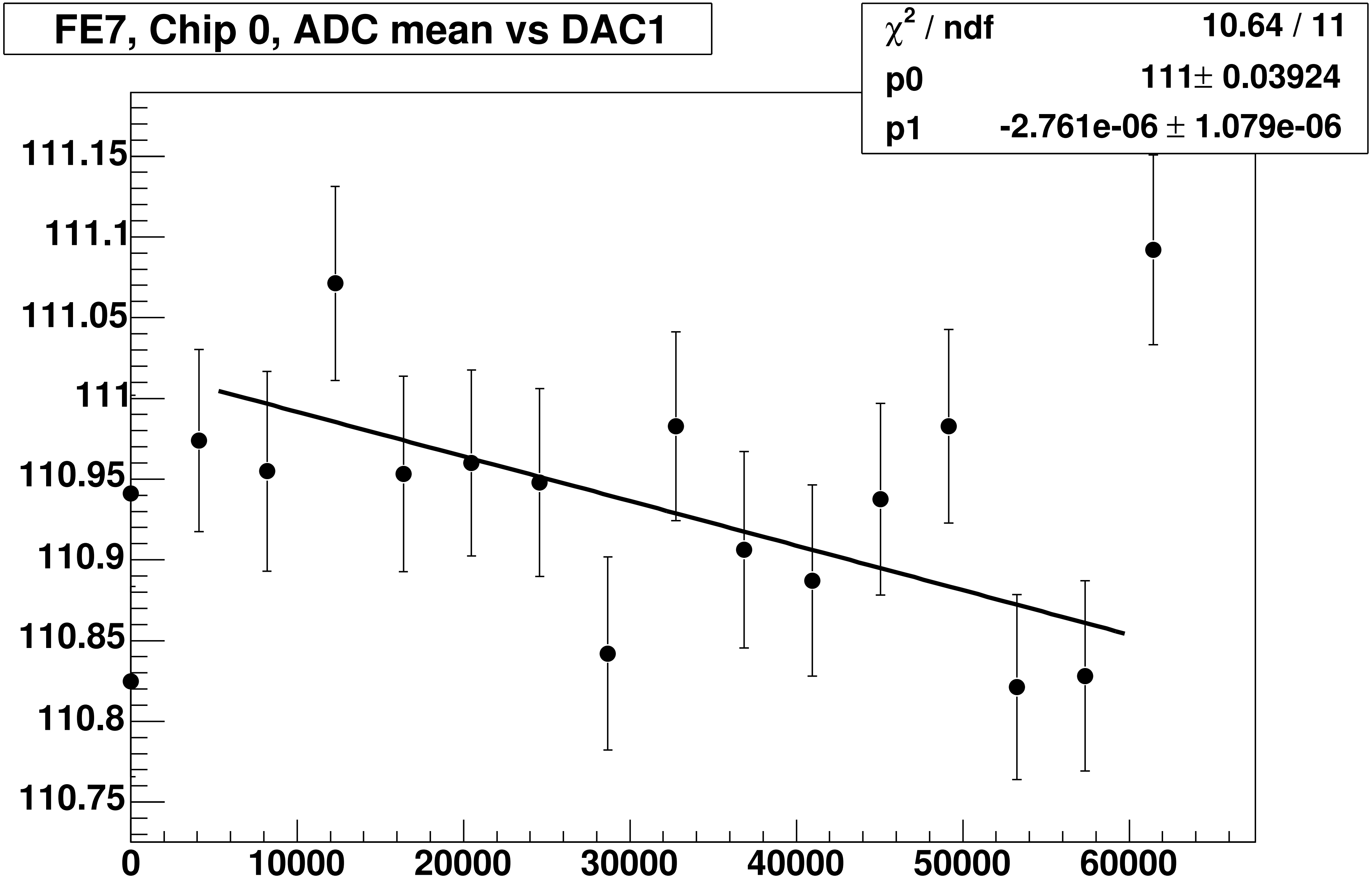

FE6, Chip 11, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

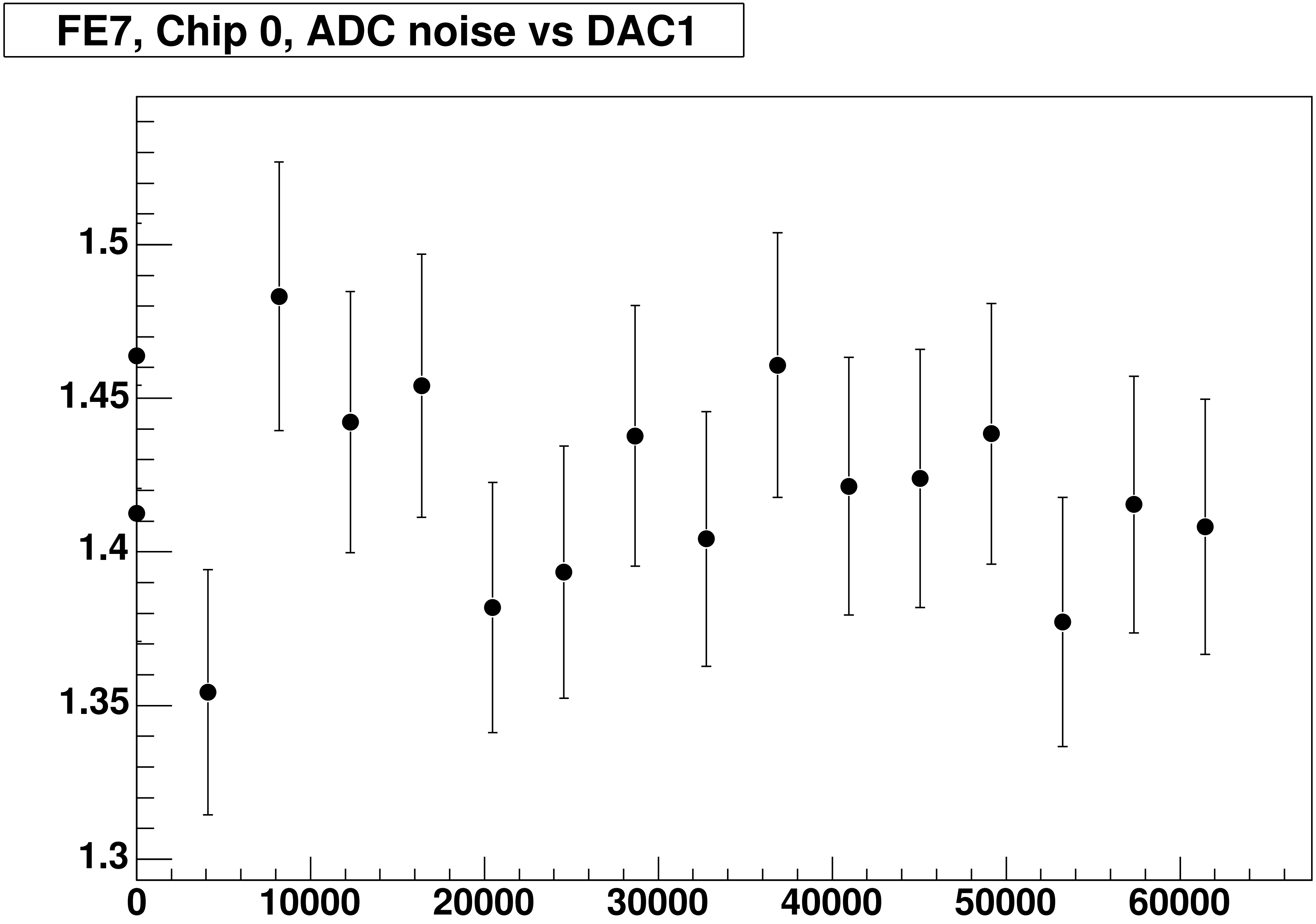

FE7, Chip 0, ADC mean vs DAC0
χ2 / ndf 2198 / 11
p0 109.4 ± 0.04146
p1 0.4499 ± 1.307e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

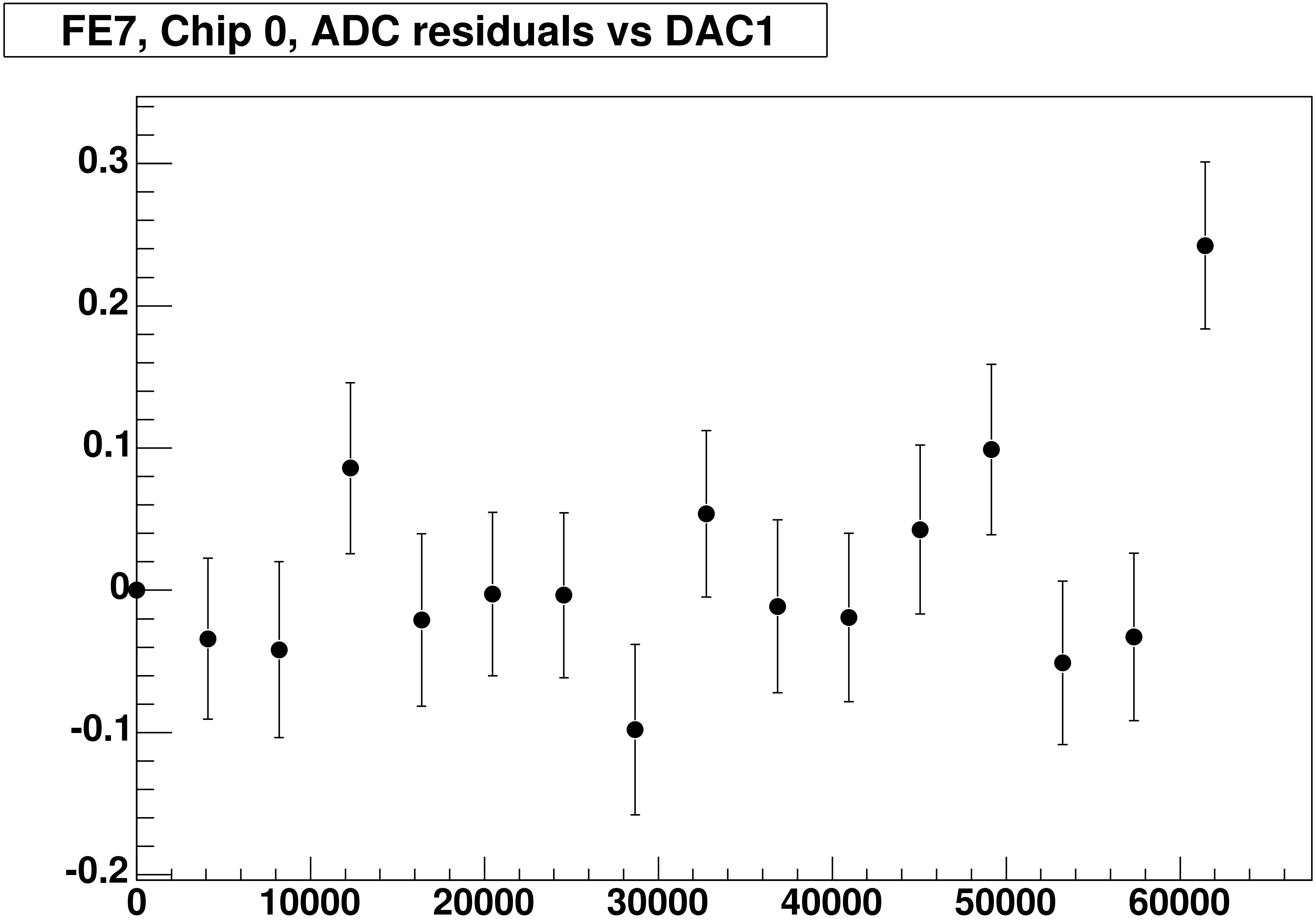

FE7, Chip 0, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

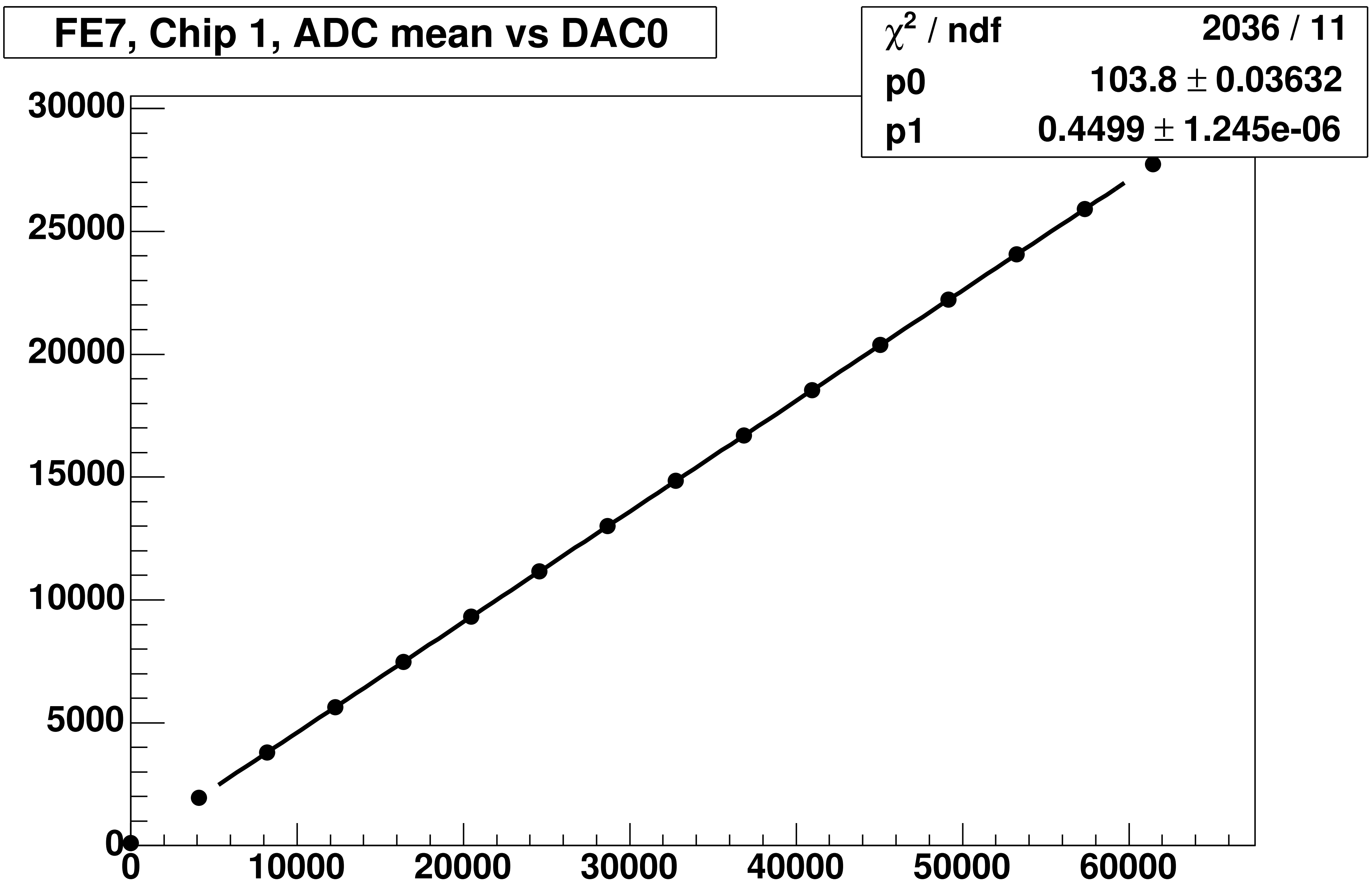


FE7, Chip 0, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

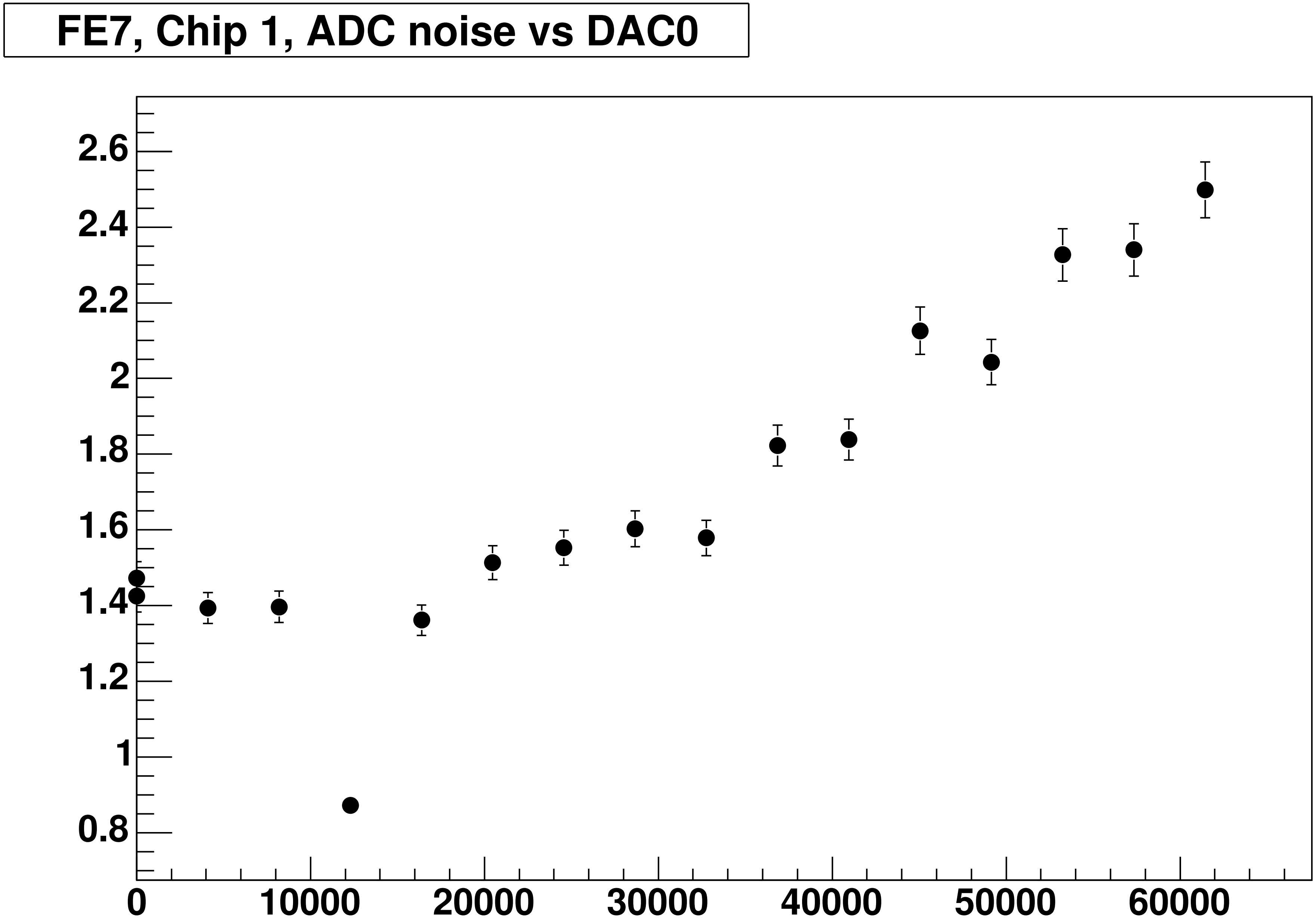

FE7, Chip 0, ADC mean vs DAC1
χ^2 / ndf 10.64 / 11
p0 111± 0.03924
p1 -2.761e-06 ± 1.079e-06
111.15
111.1
111.05
111
110.95
110.9
110.85
110.8
110.75
0
10000
20000
30000
40000
50000
60000

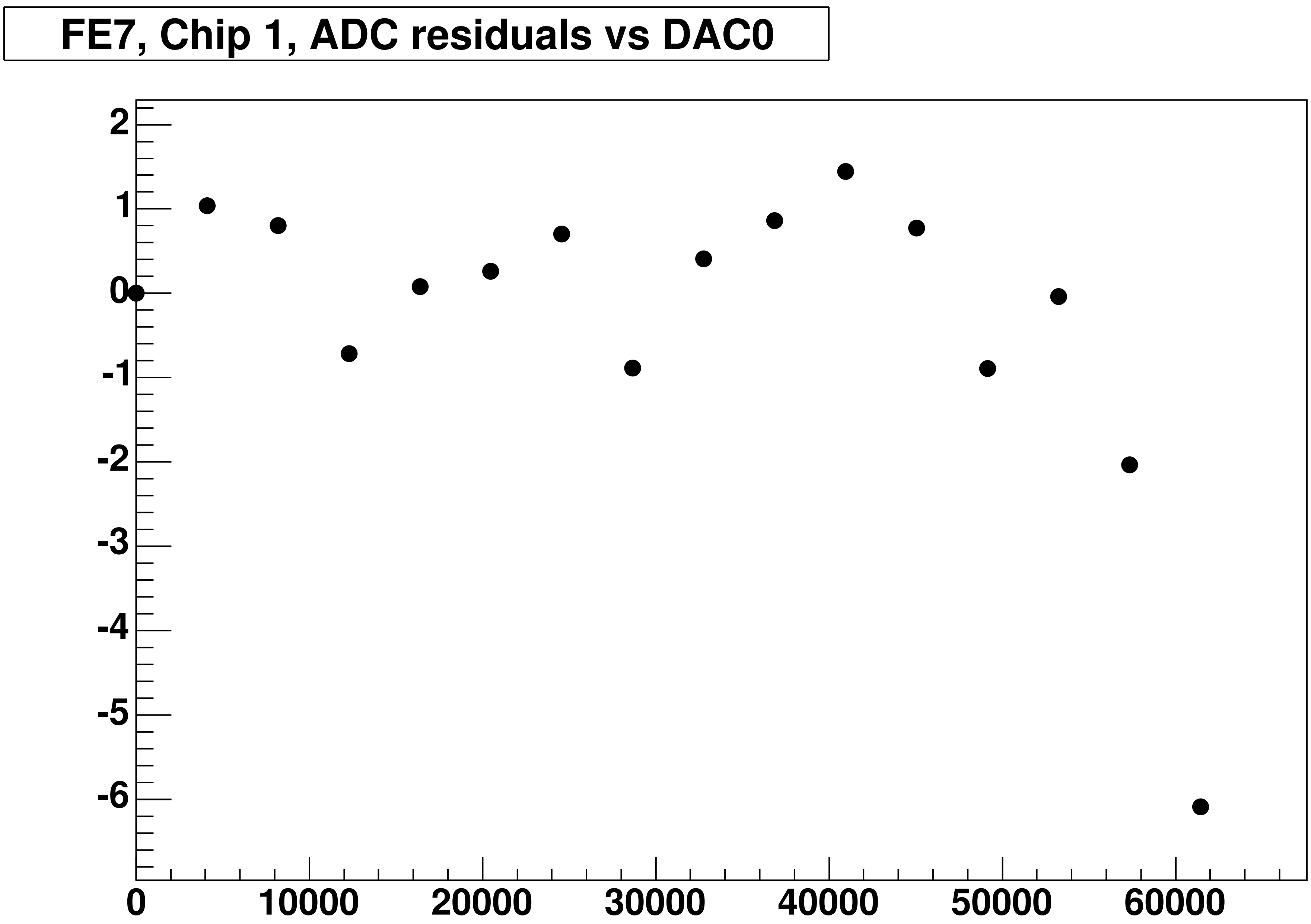

FE7, Chip 0, ADC noise vs DAC1
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


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

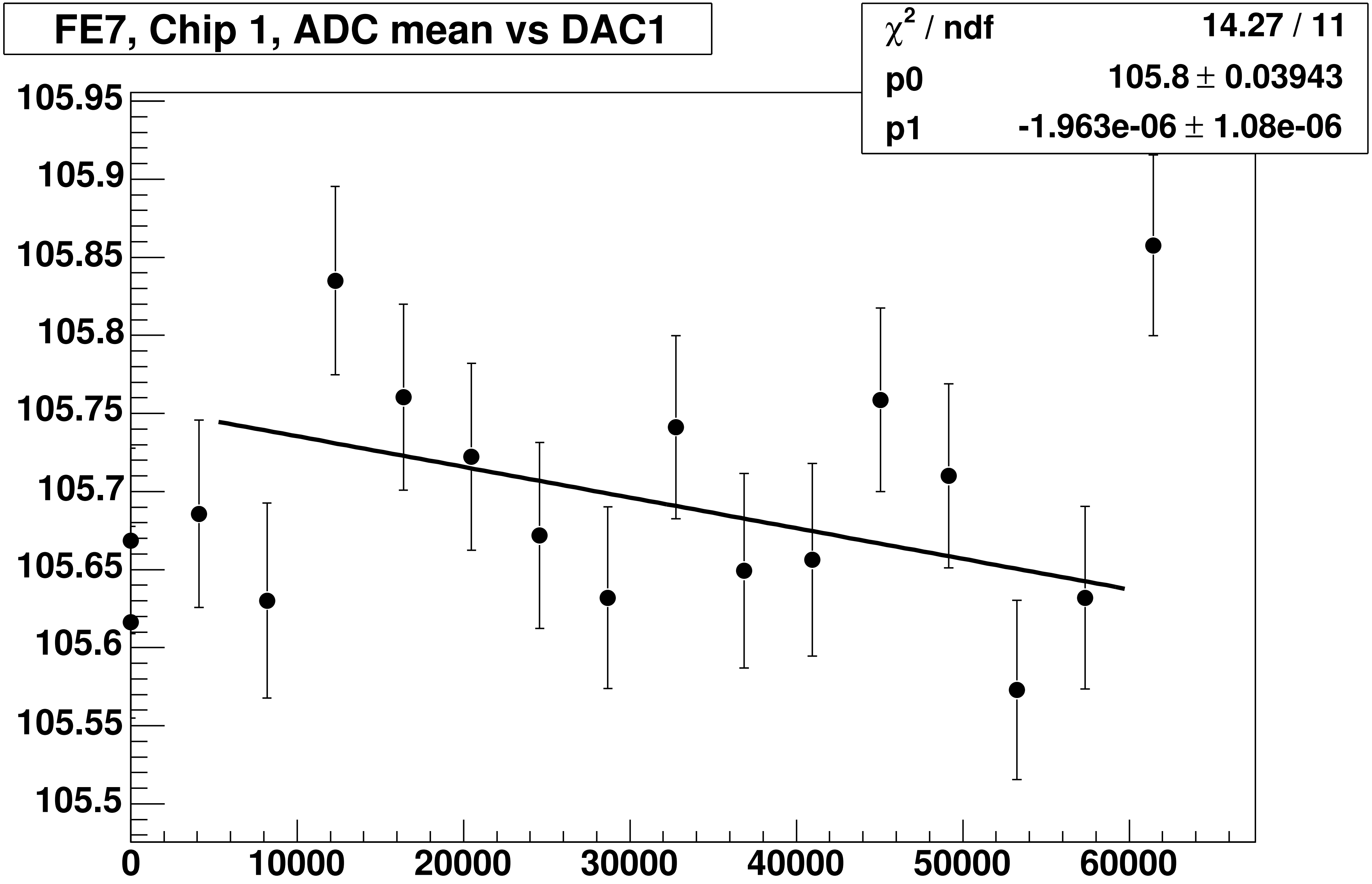


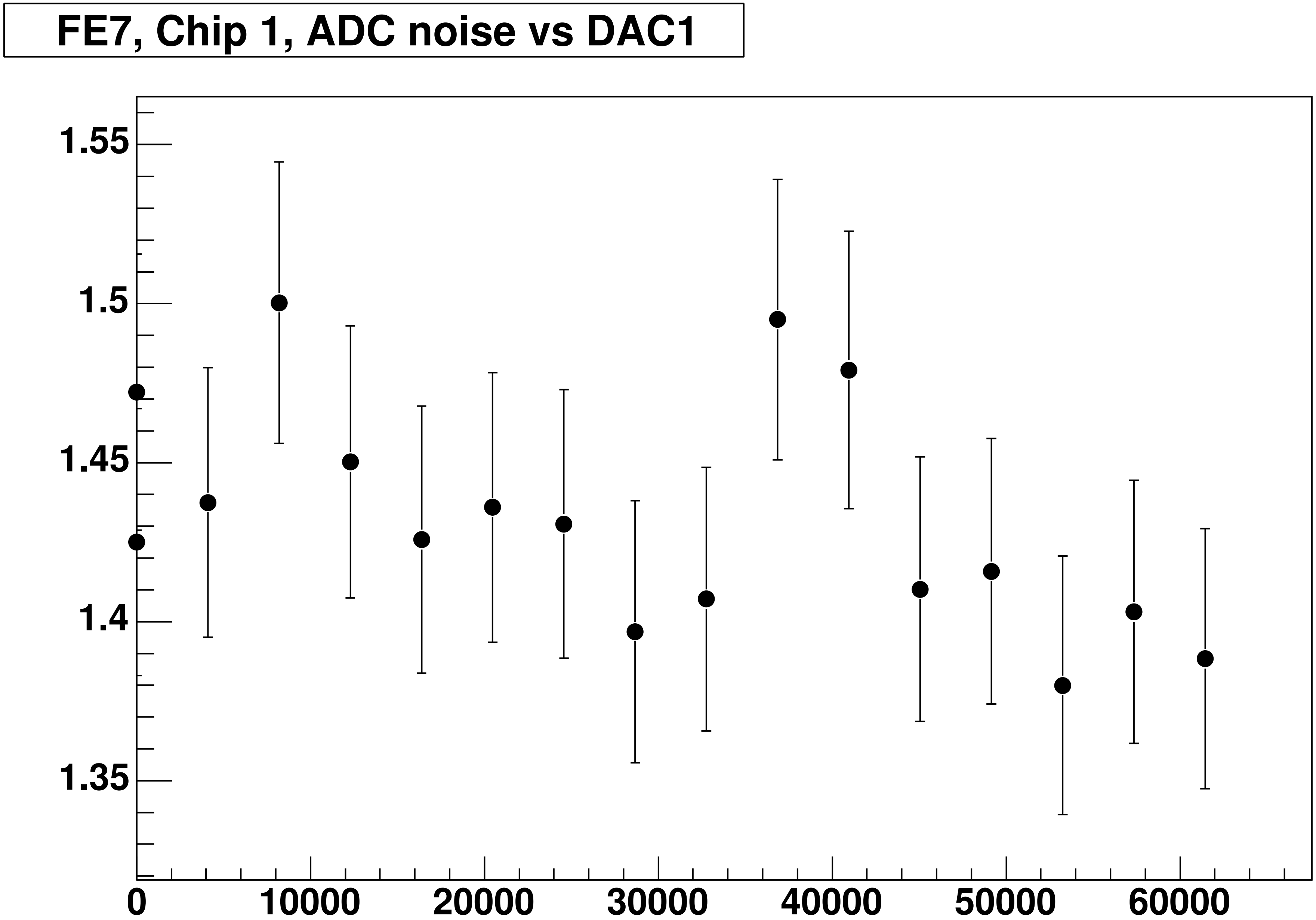
FE7, Chip 1, ADC mean vs DAC0
χ² / ndf 2036 / 11
p0 103.8 ± 0.03632
p1 0.4499 ± 1.245e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 1, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0
10000
20000
30000
40000
50000
60000

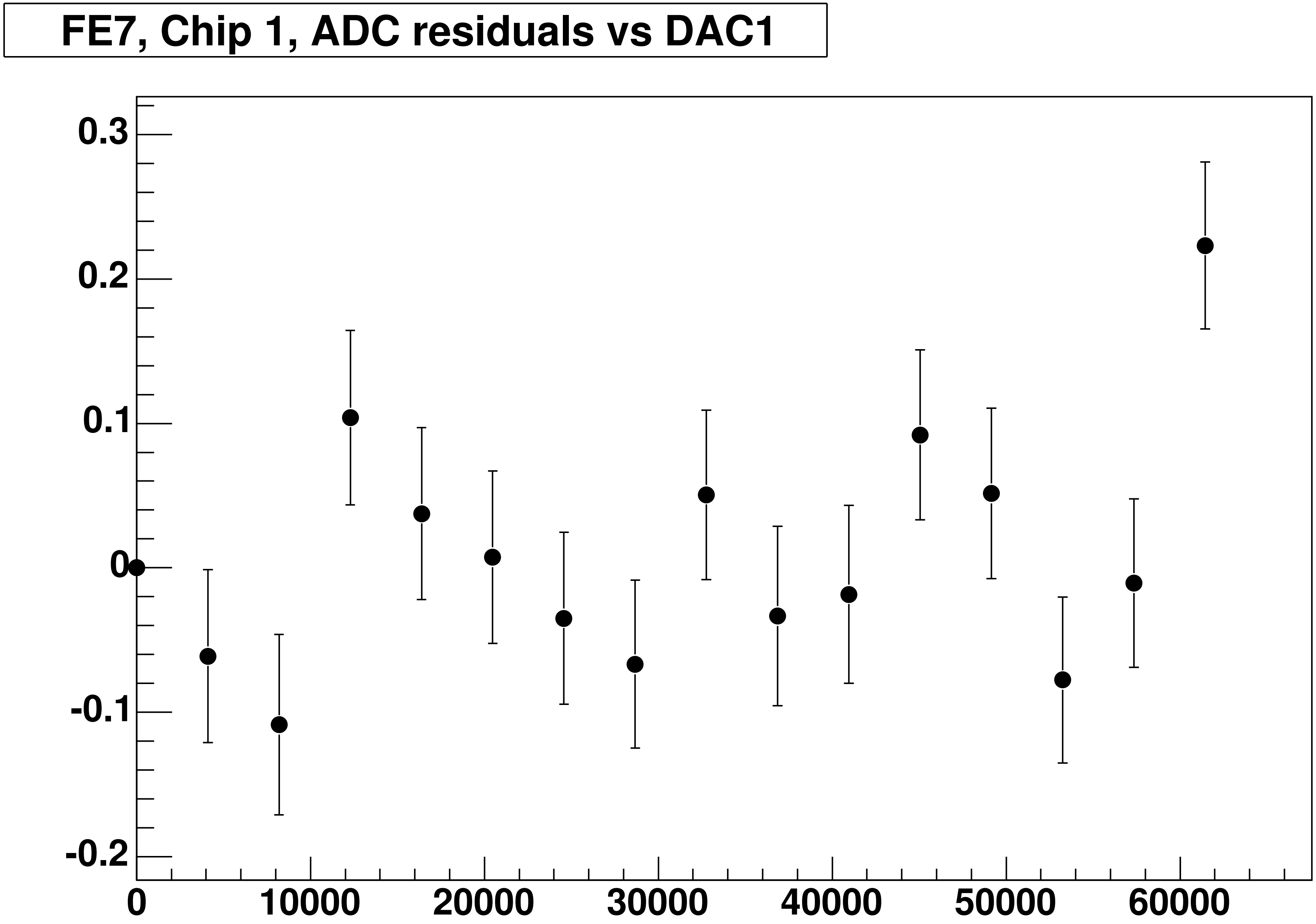


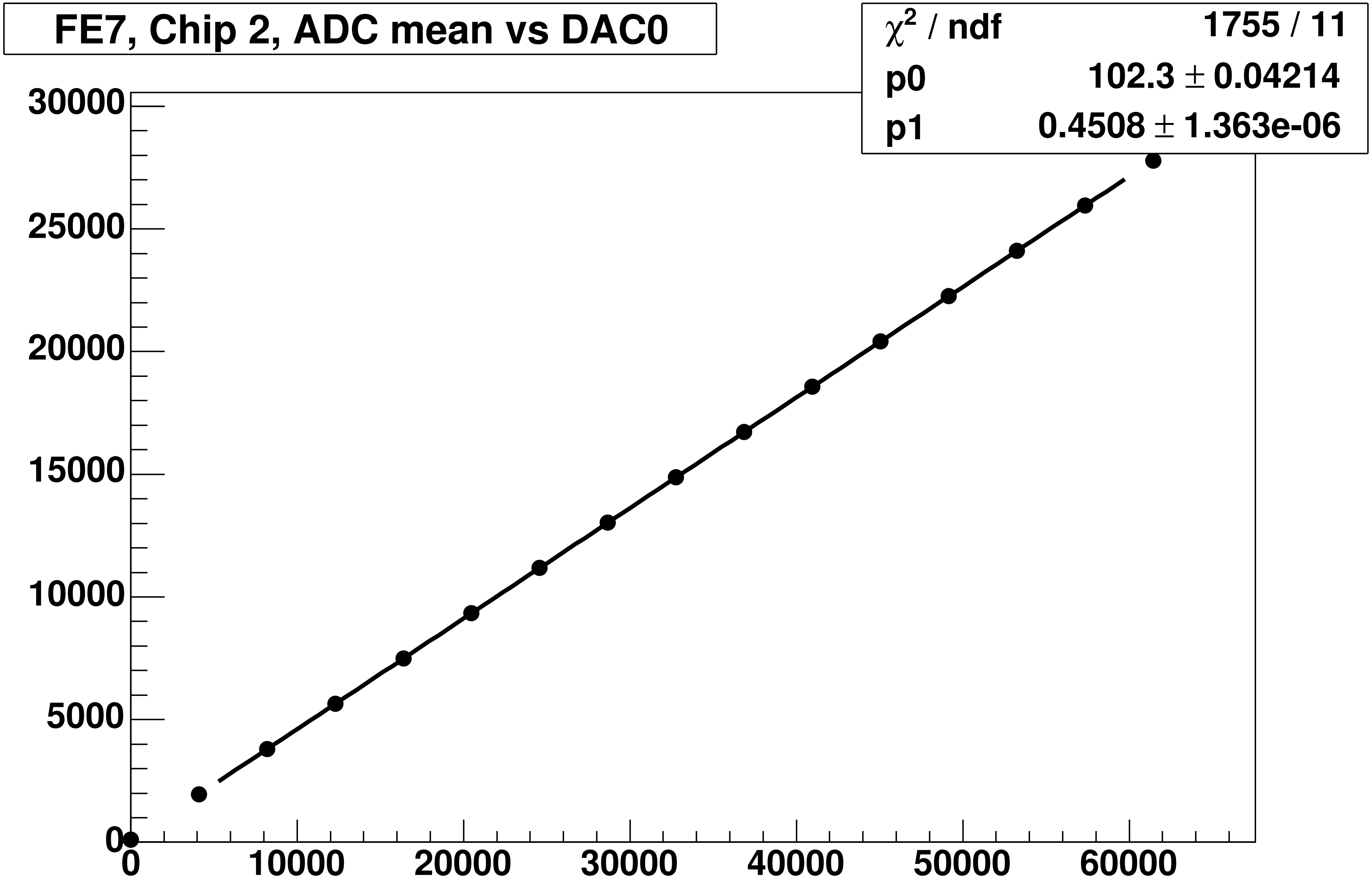
FE7, Chip 1, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000

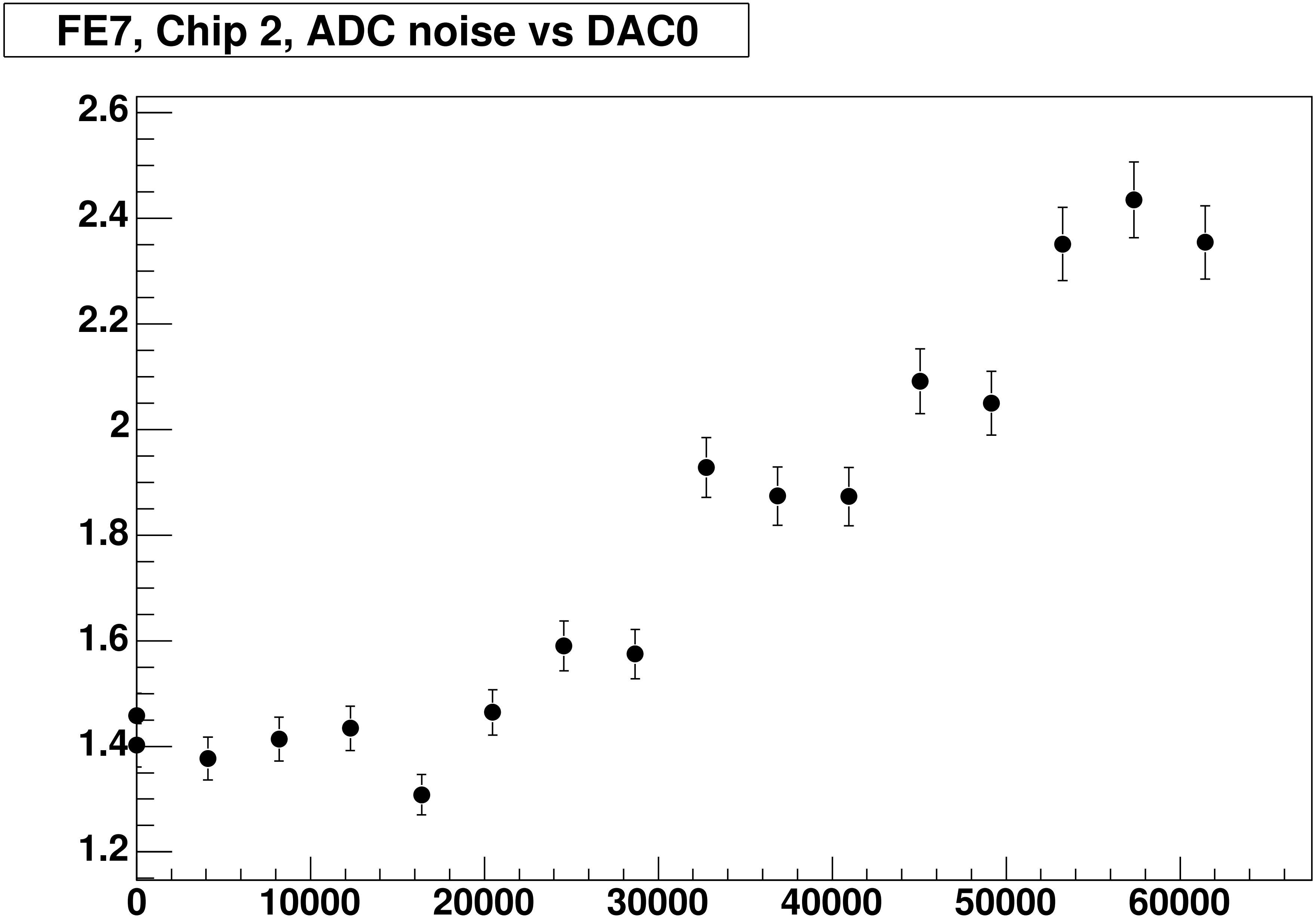

FE7, Chip 1, ADC mean vs DAC1
χ^2 / ndf 14.27 / 11
p0 105.8 ± 0.03943
p1 -1.963e-06 ± 1.08e-06
105.95
105.9
105.85
105.8
105.75
105.7
105.65
105.6
105.55
105.5
0
10000
20000
30000
40000
50000
60000



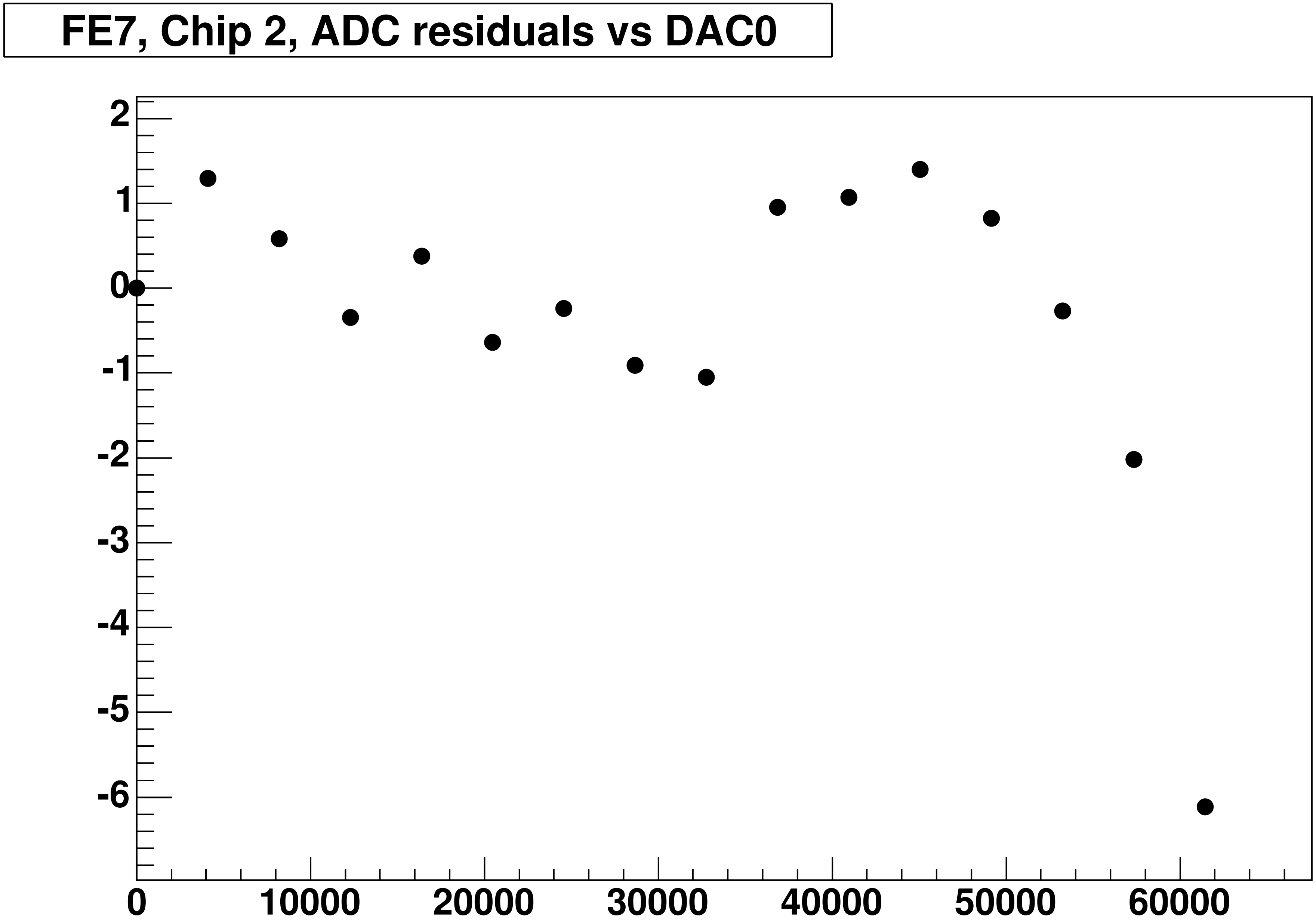
FE7, Chip 1, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

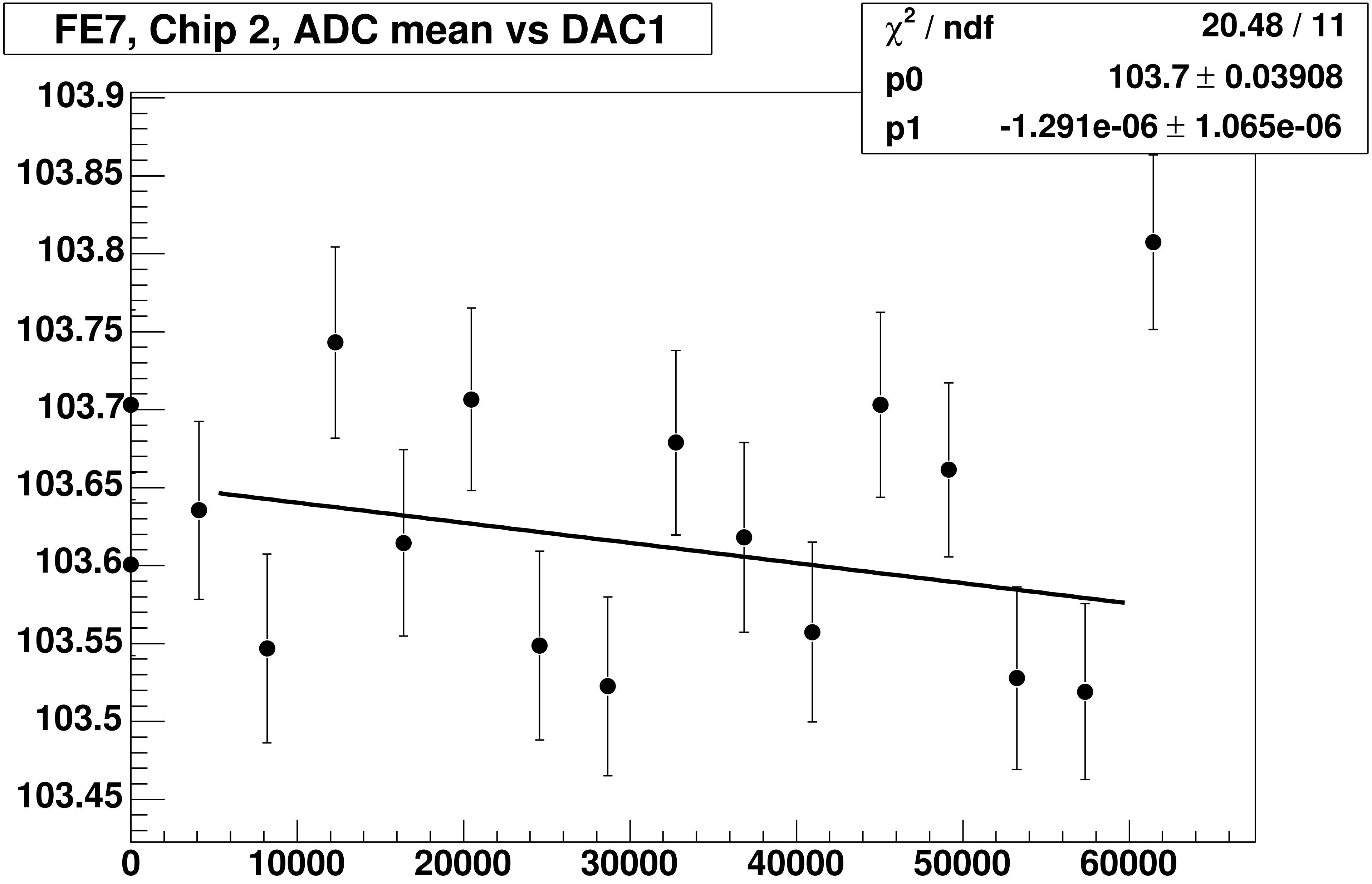

FE7, Chip 1, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 2, ADC mean vs DAC0
χ^2 / ndf 1755 / 11
p0 102.3 ± 0.04214
p1 0.4508 ± 1.363e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

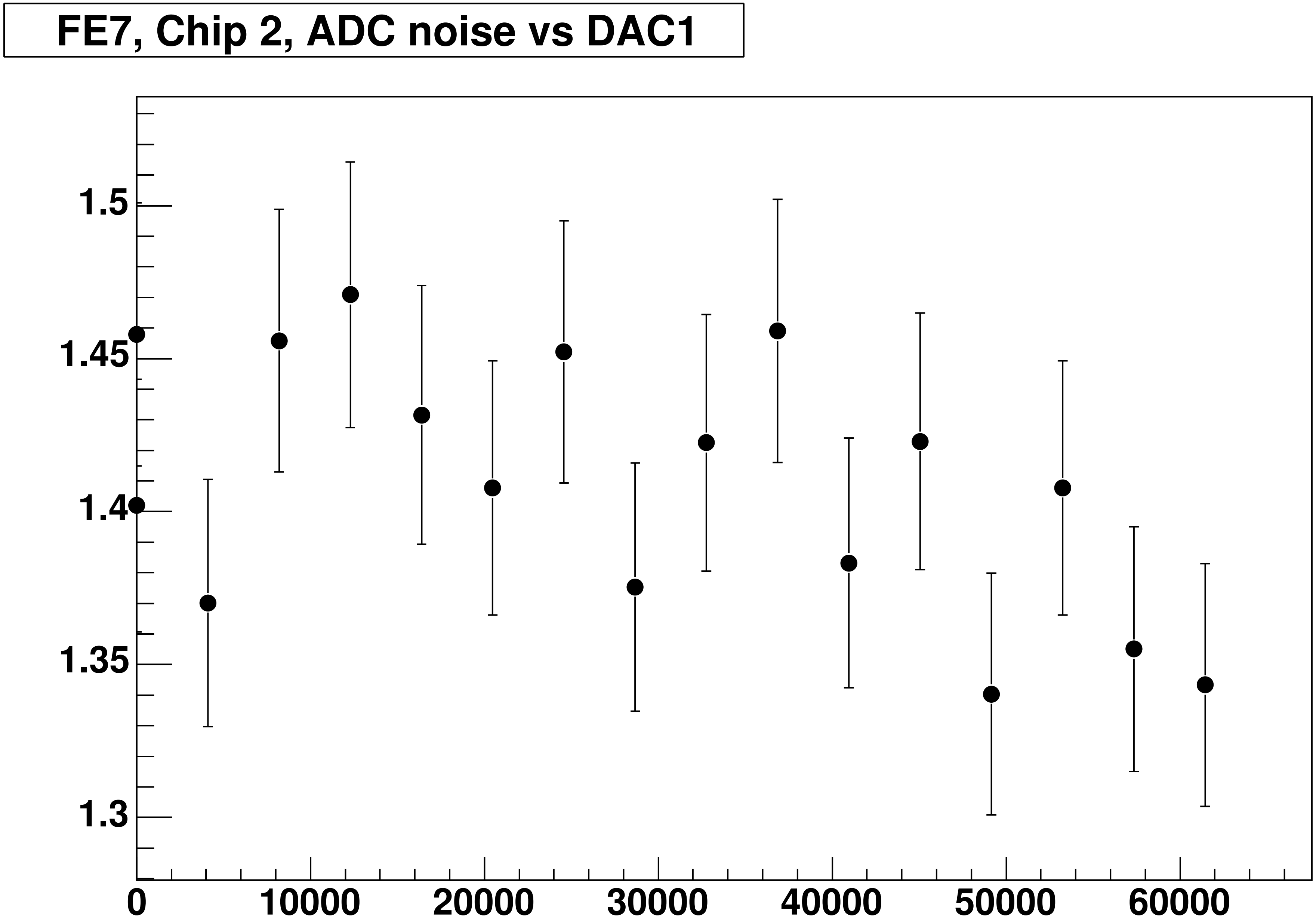


FE7, Chip 2, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

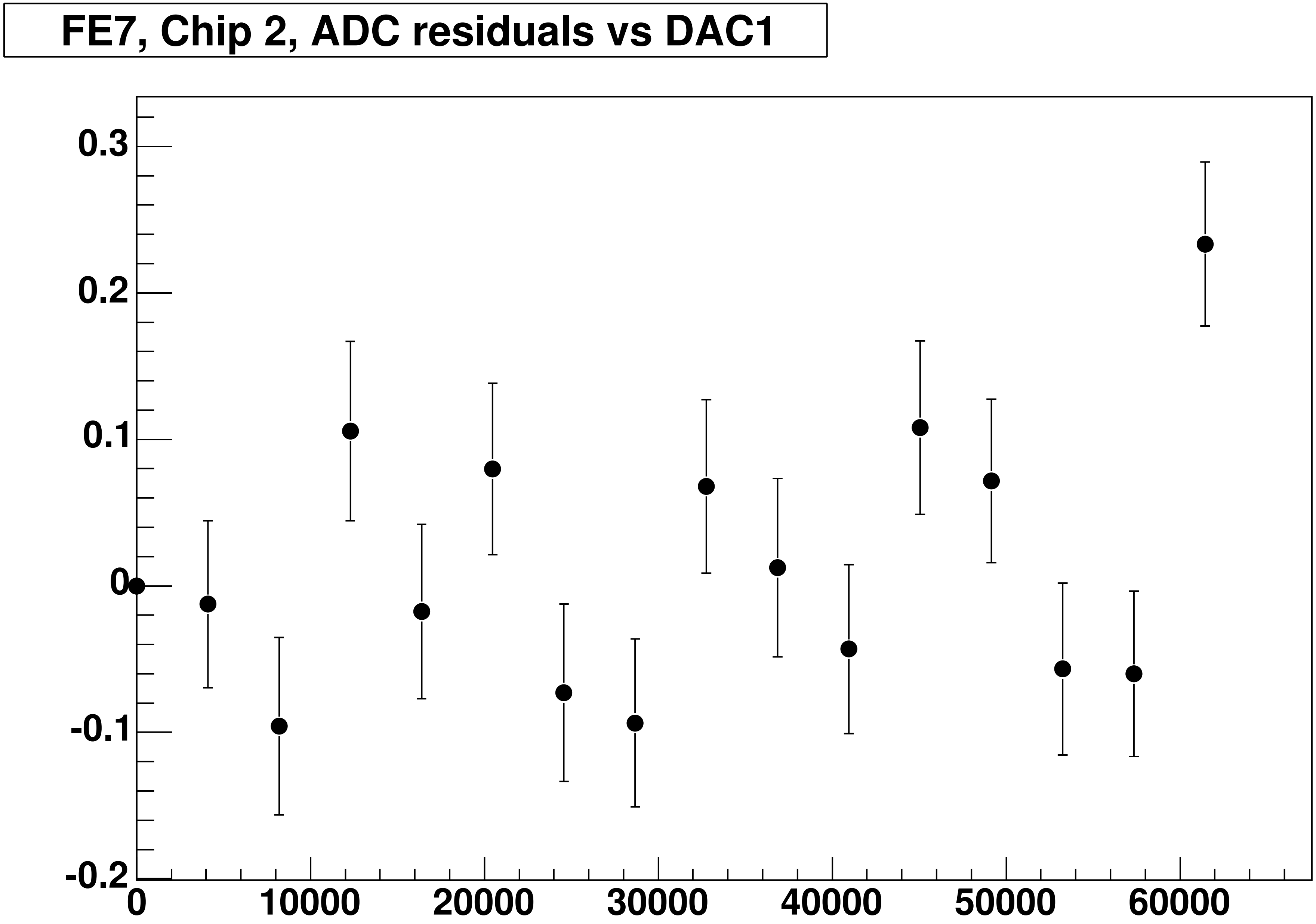

FE7, Chip 2, ADC residuals vs DAC0
2
1
0
-1
-2
-3
-4
-5
-6
0
10000
20000
30000
40000
50000
60000



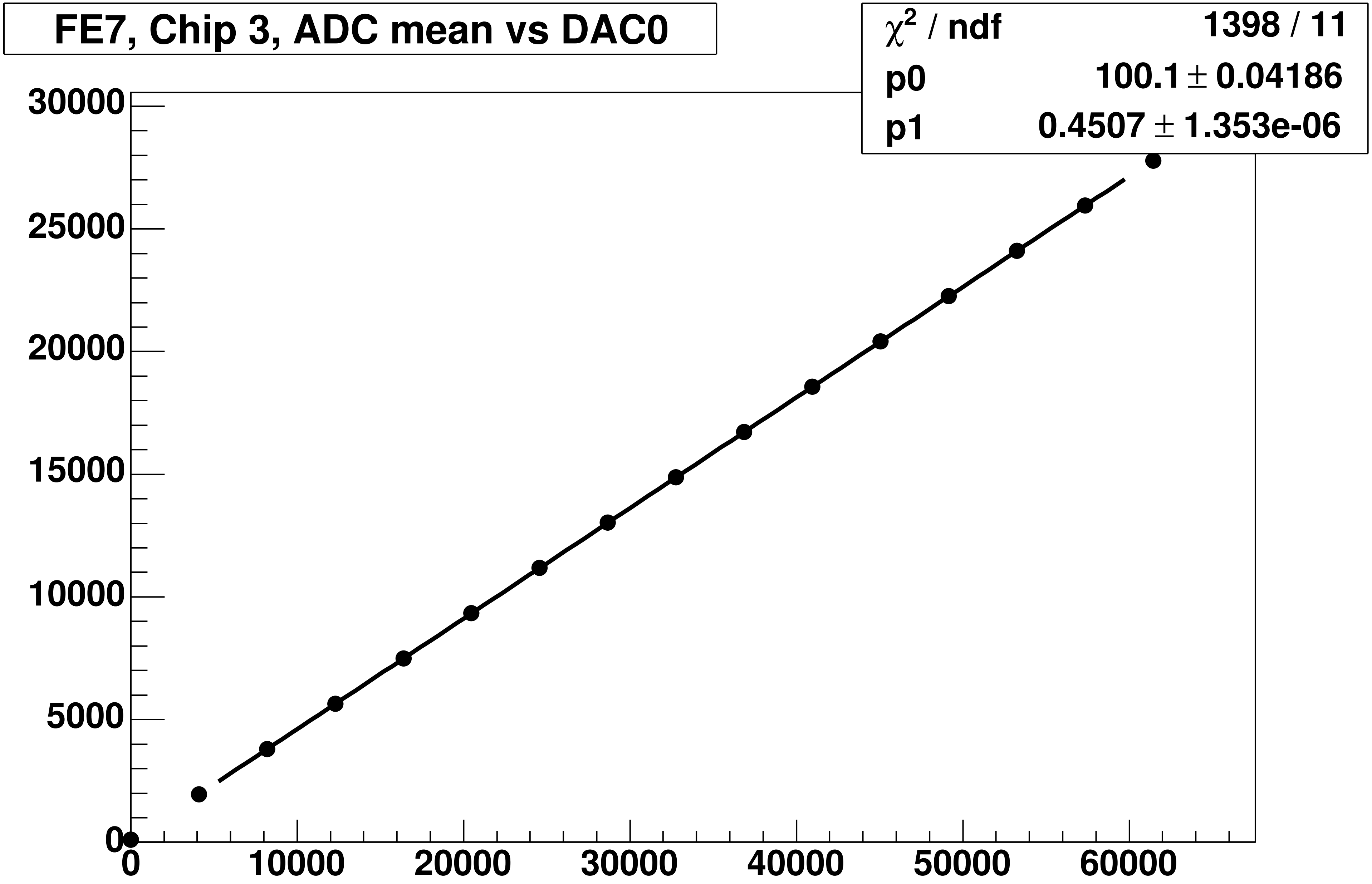
FE7, Chip 2, ADC mean vs DAC1
χ^2 / ndf 20.48 / 11
p0 103.7 ± 0.03908
p1 -1.291e-06 ± 1.065e-06
103.9
103.85
103.8
103.75
103.7
103.65
103.6
103.55
103.5
103.45
0
10000
20000
30000
40000
50000
60000

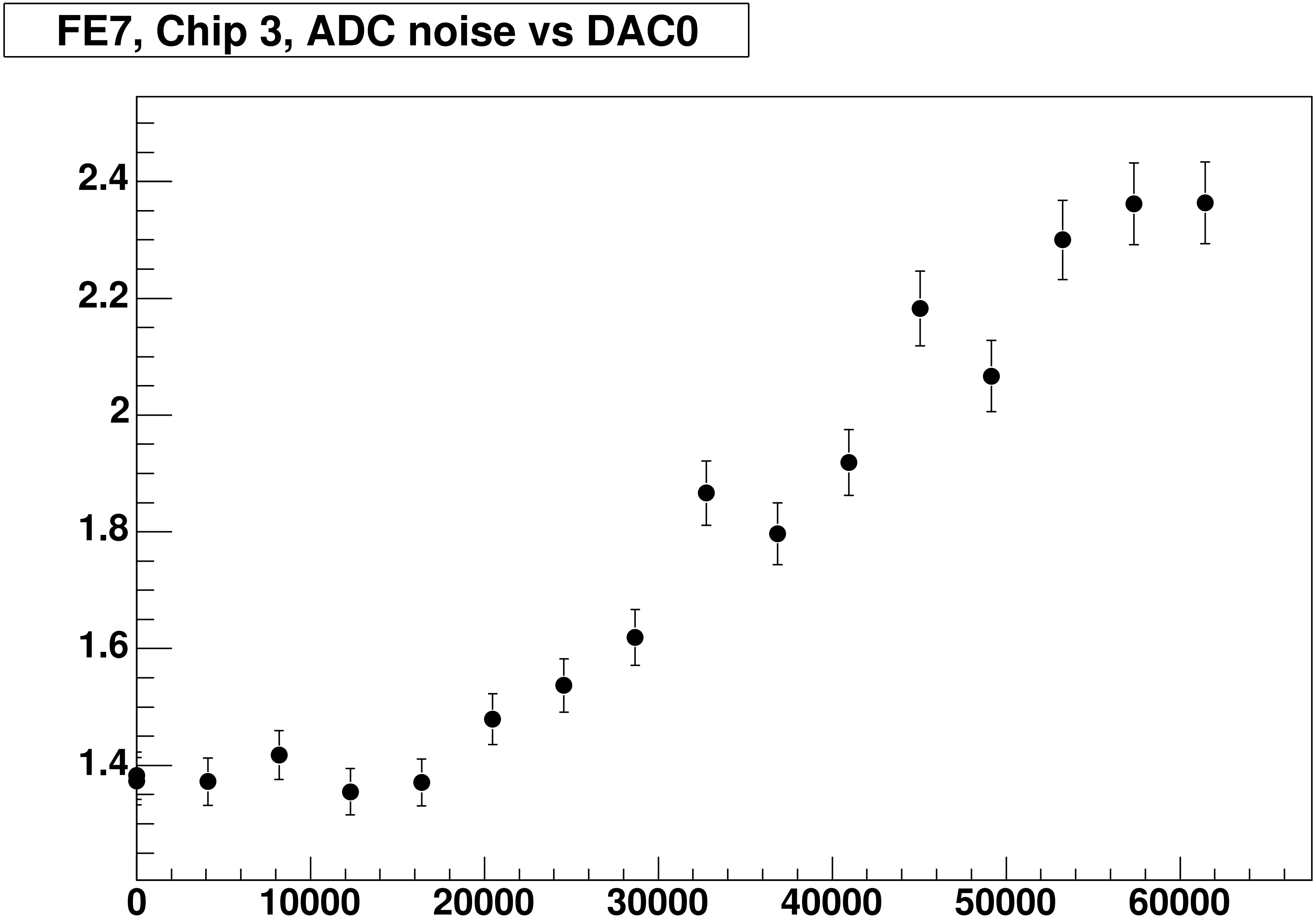


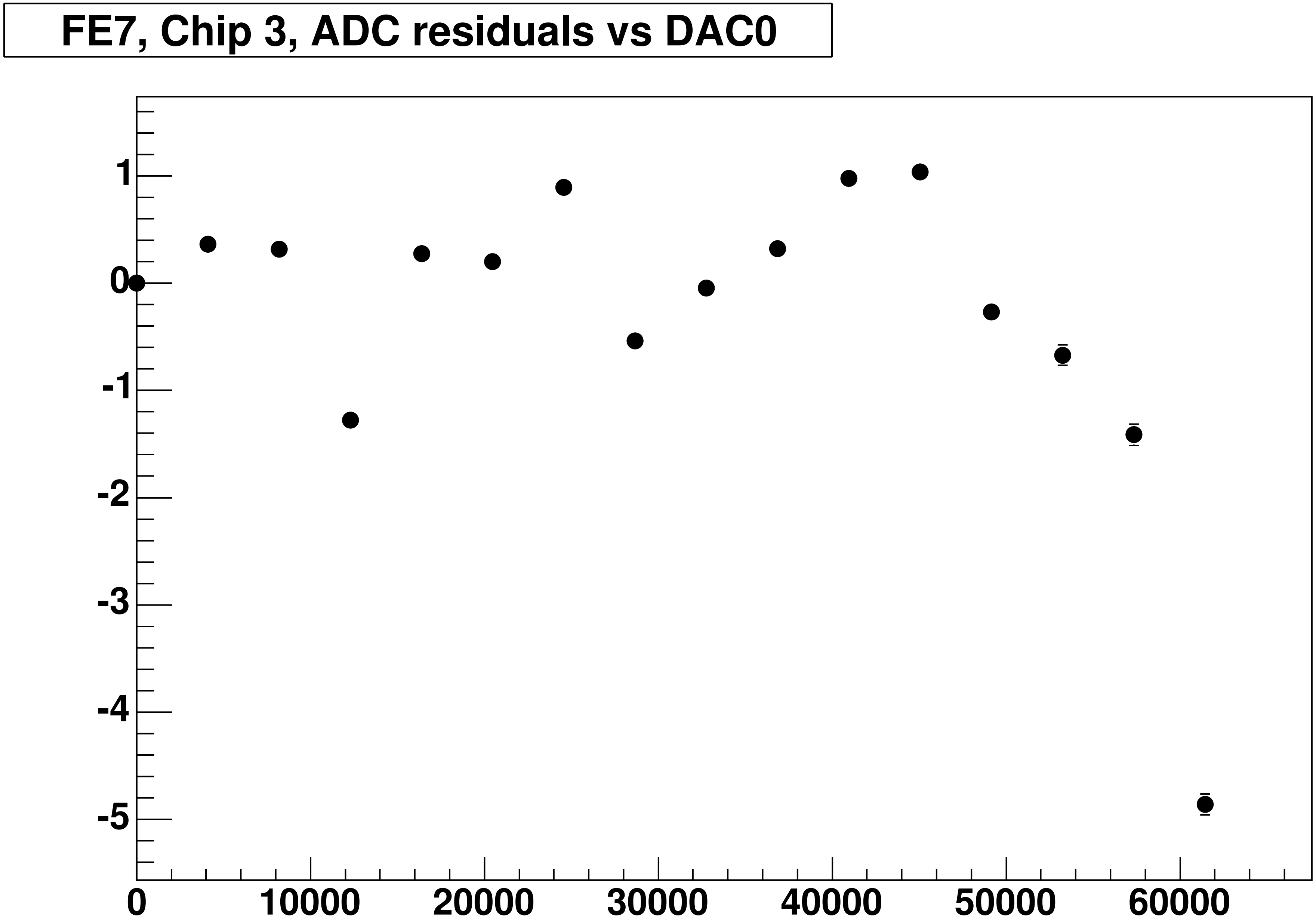
FE7, Chip 2, ADC noise vs DAC1
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

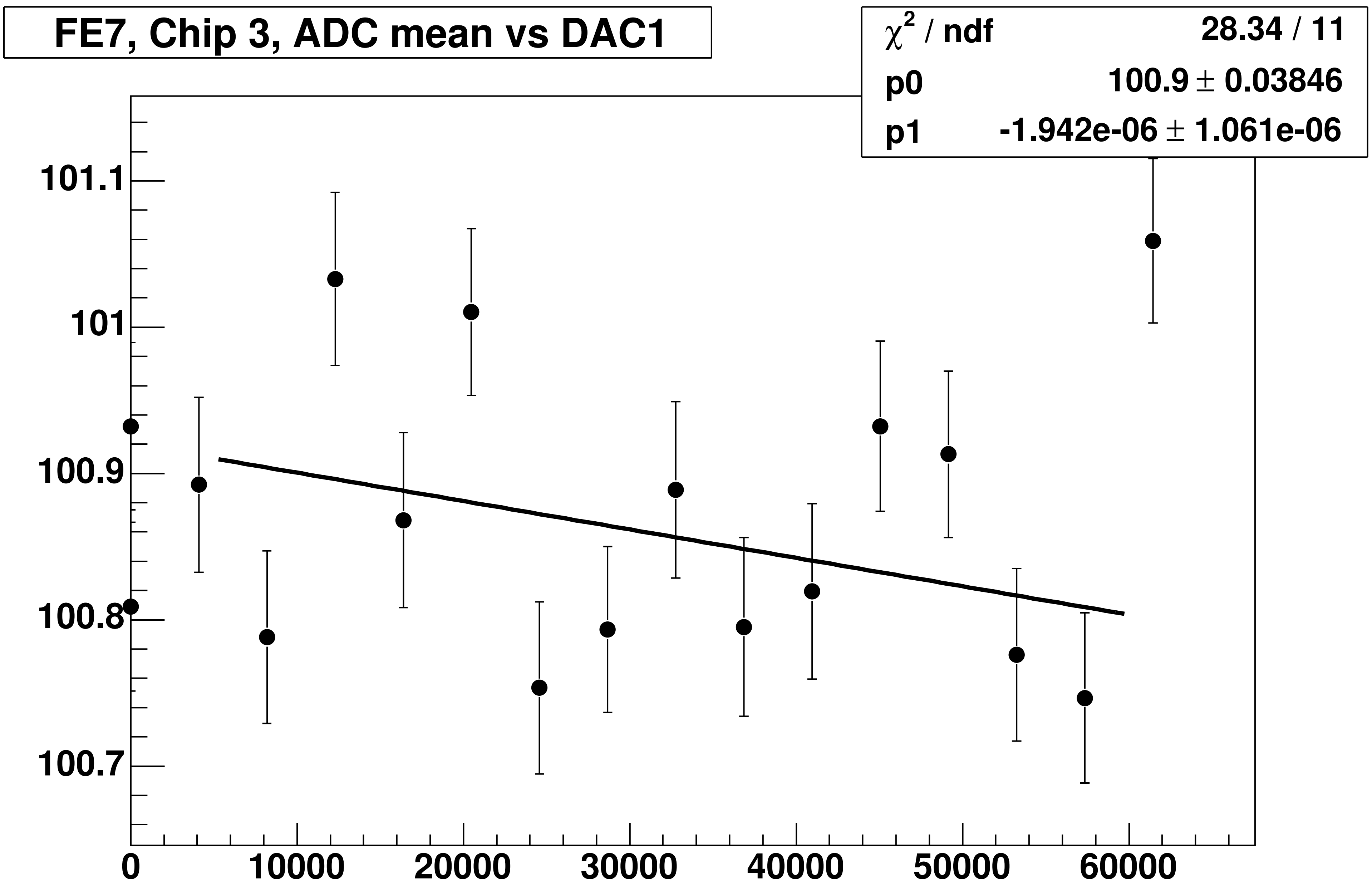


FE7, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

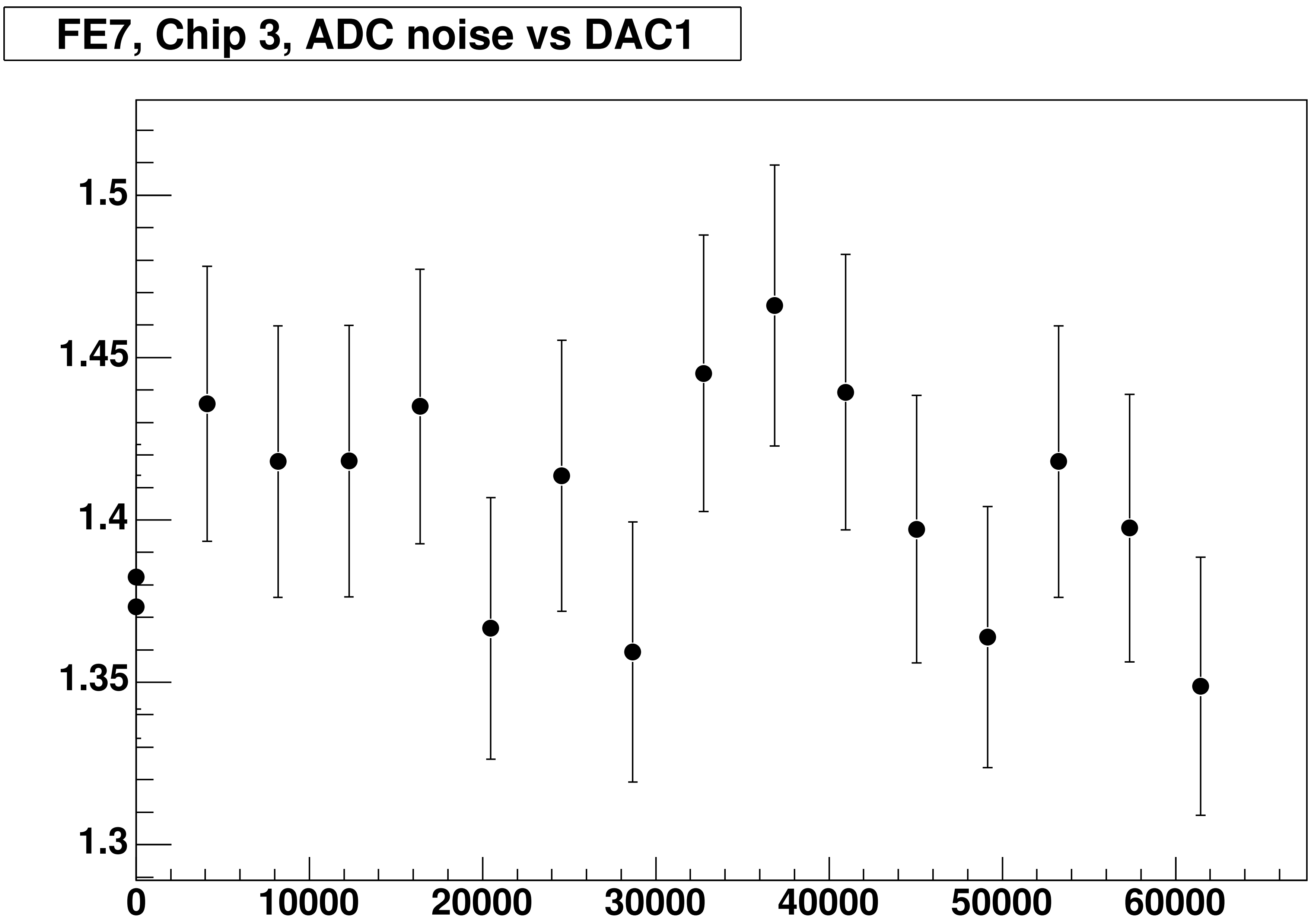

FE7, Chip 3, ADC mean vs DAC0
χ^2 / ndf 1398 / 11
p0 100.1 ± 0.04186
p1 0.4507 ± 1.353e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


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

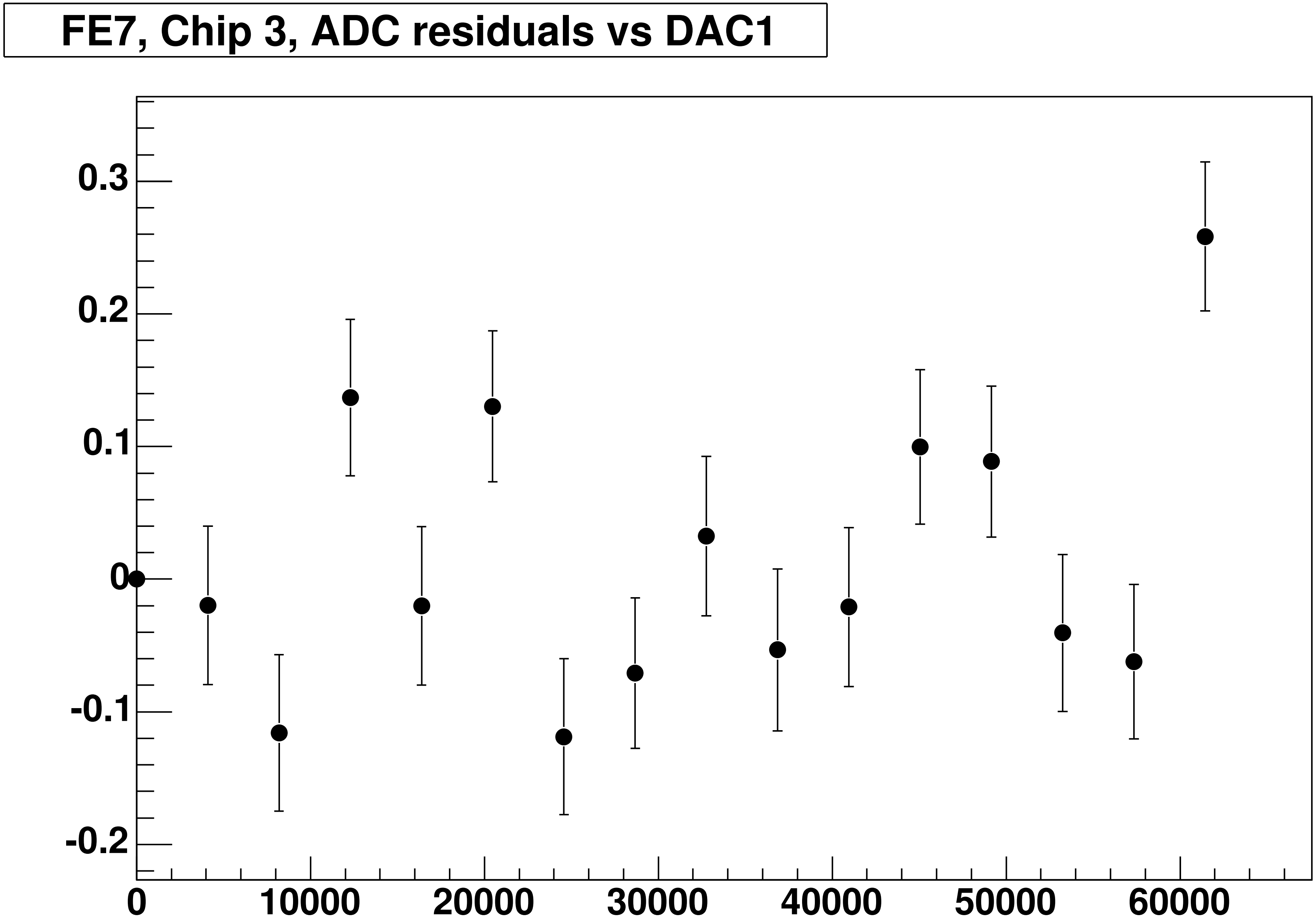

FE7, Chip 3, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000

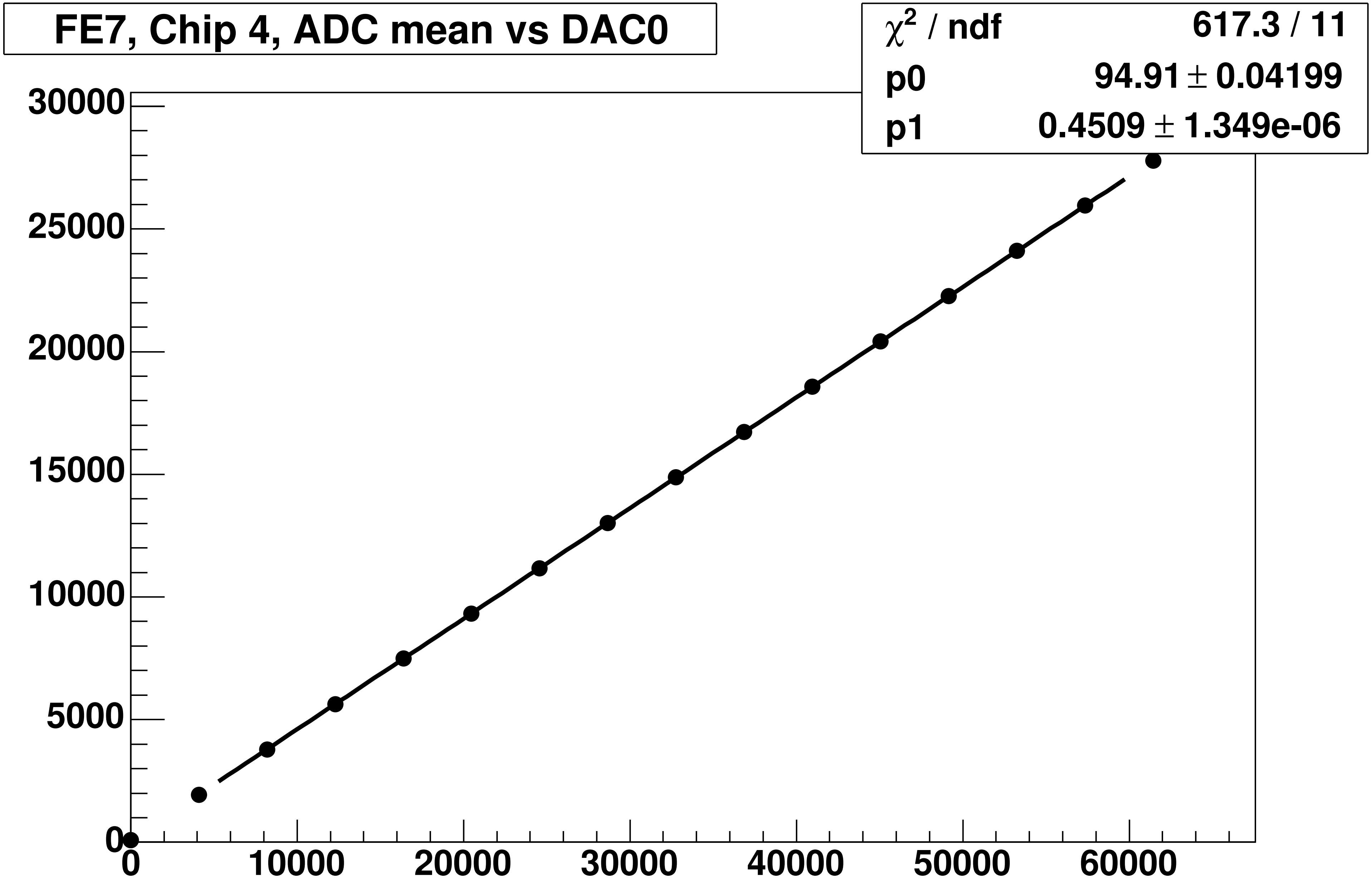


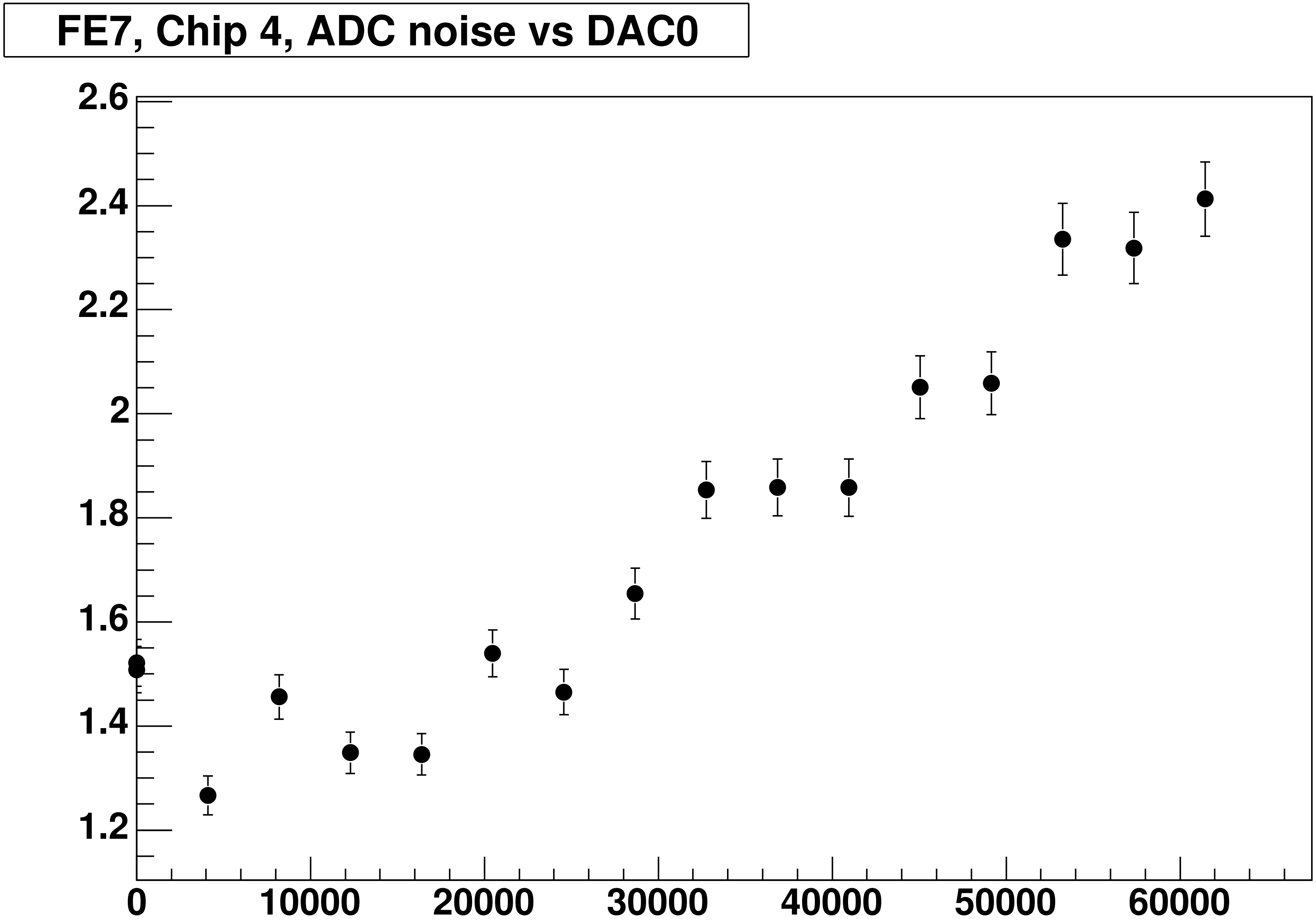
FE7, Chip 3, ADC mean vs DAC1
χ^2 / ndf 28.34 / 11
p0 100.9 ± 0.03846
p1 -1.942e-06 ± 1.061e-06
101.1
101
100.9
100.8
100.7
0
10000
20000
30000
40000
50000
60000

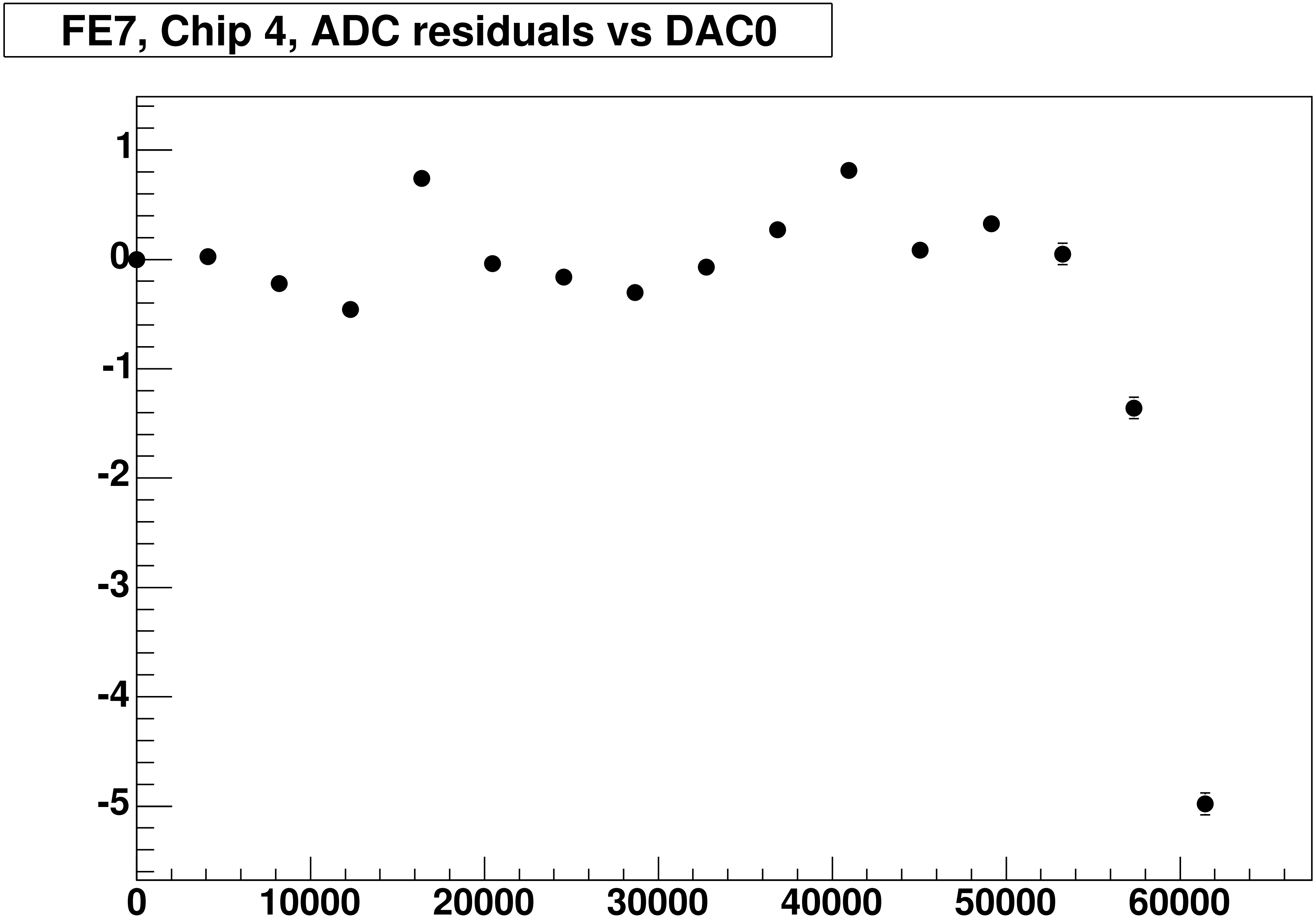


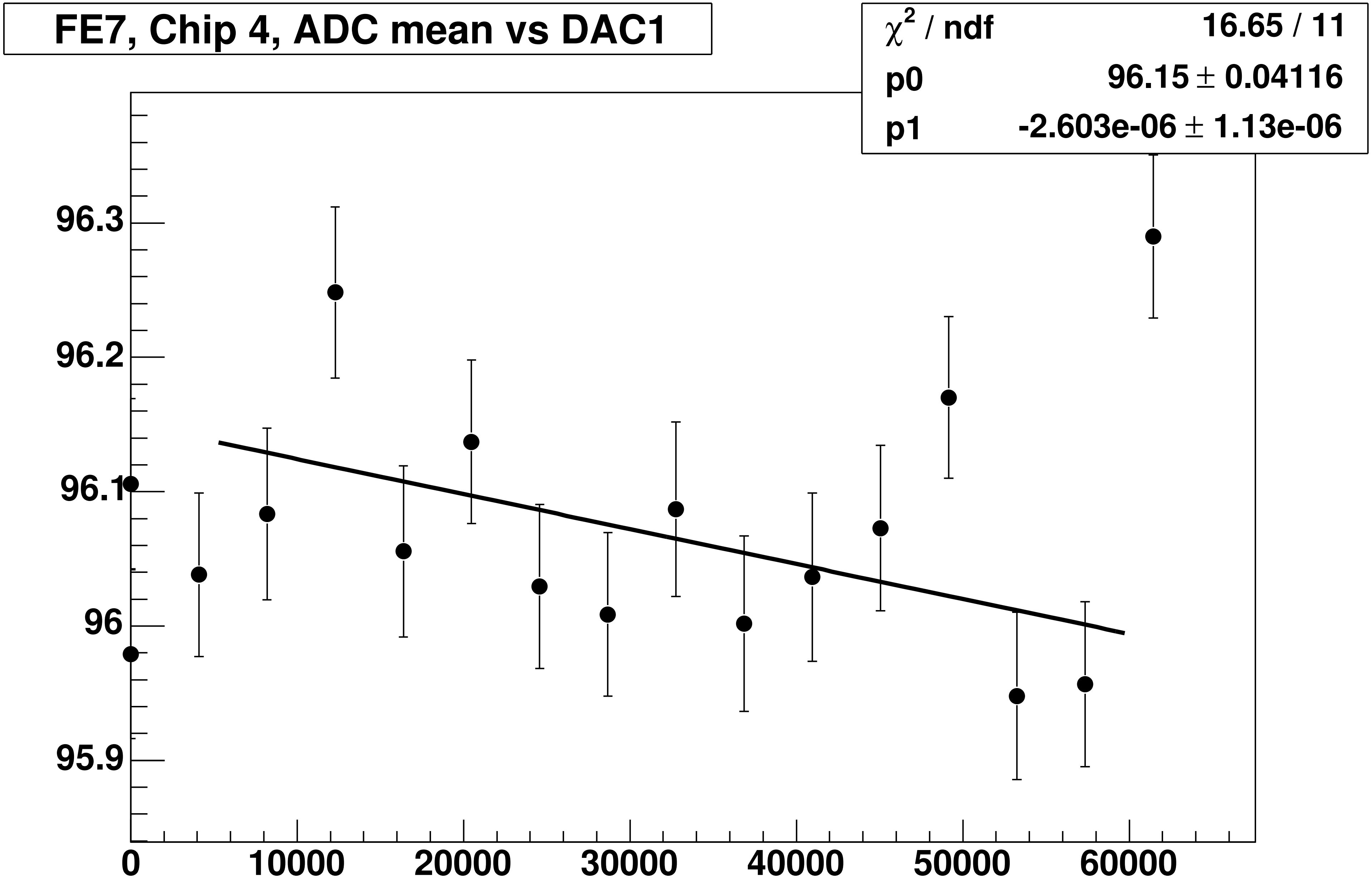
FE7, Chip 3, ADC noise vs DAC1
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

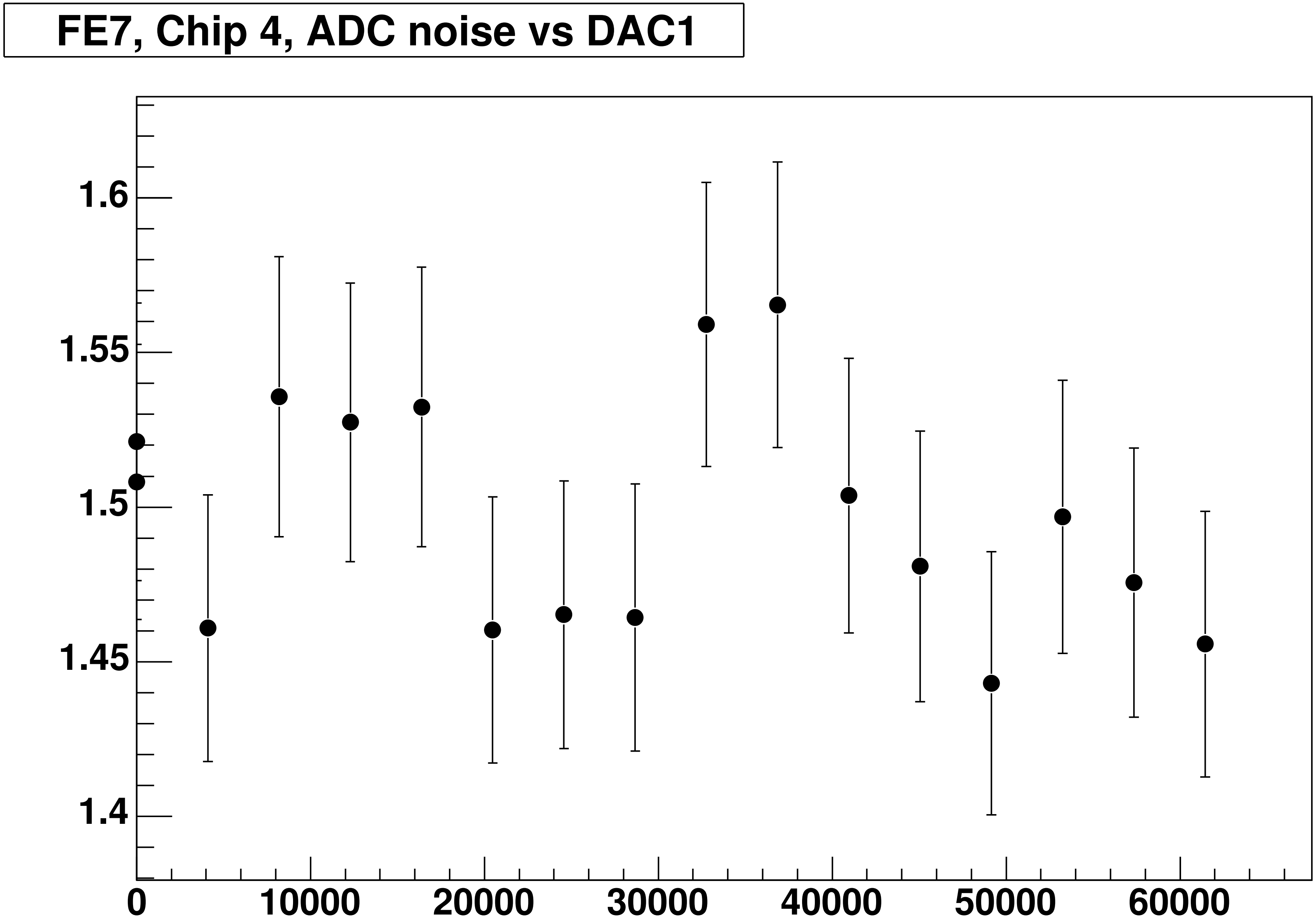

FE7, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC mean vs DAC0
χ2 / ndf 617.3 / 11
p0 94.91 ± 0.04199
p1 0.4509 ± 1.349e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

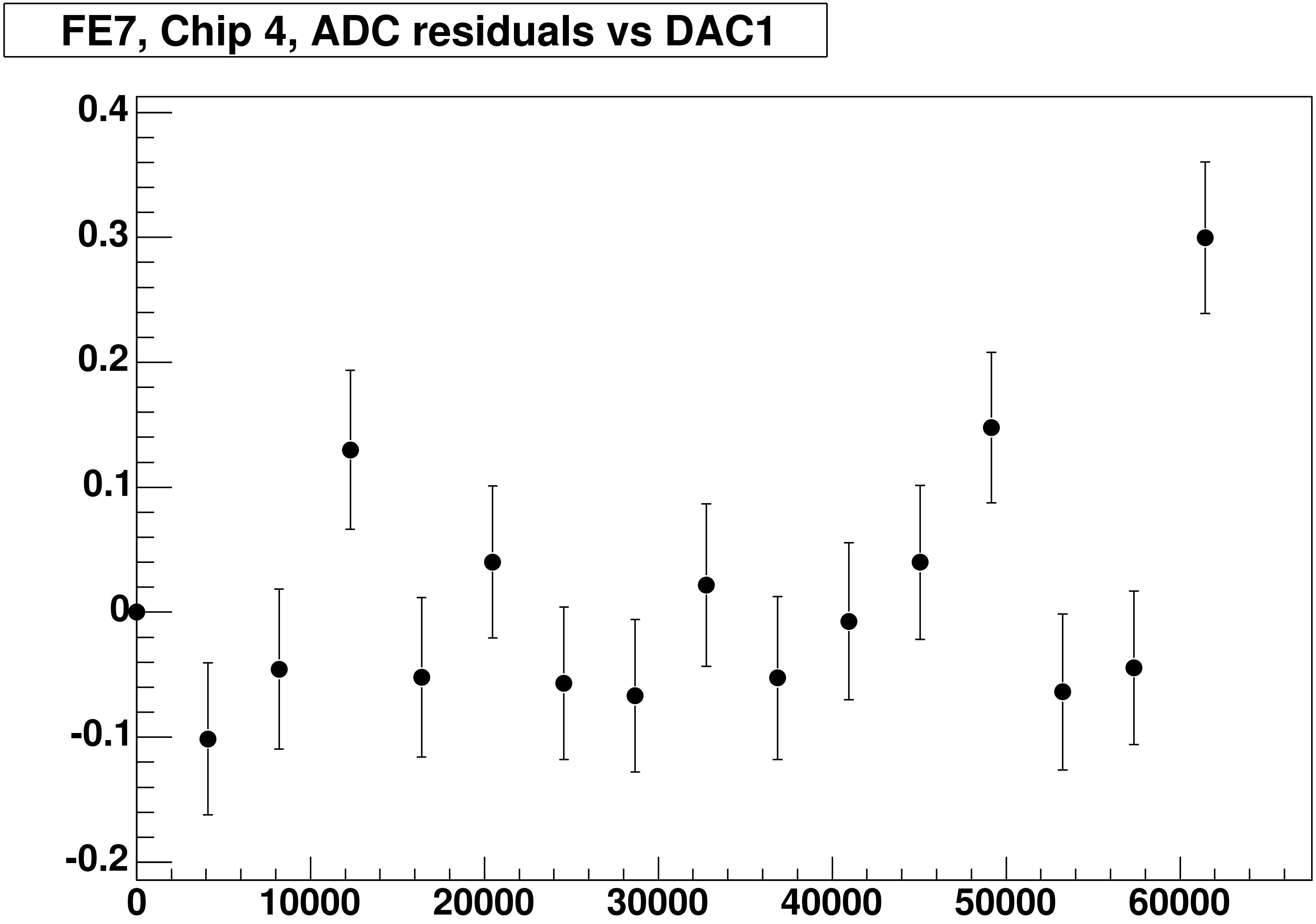

FE7, Chip 4, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

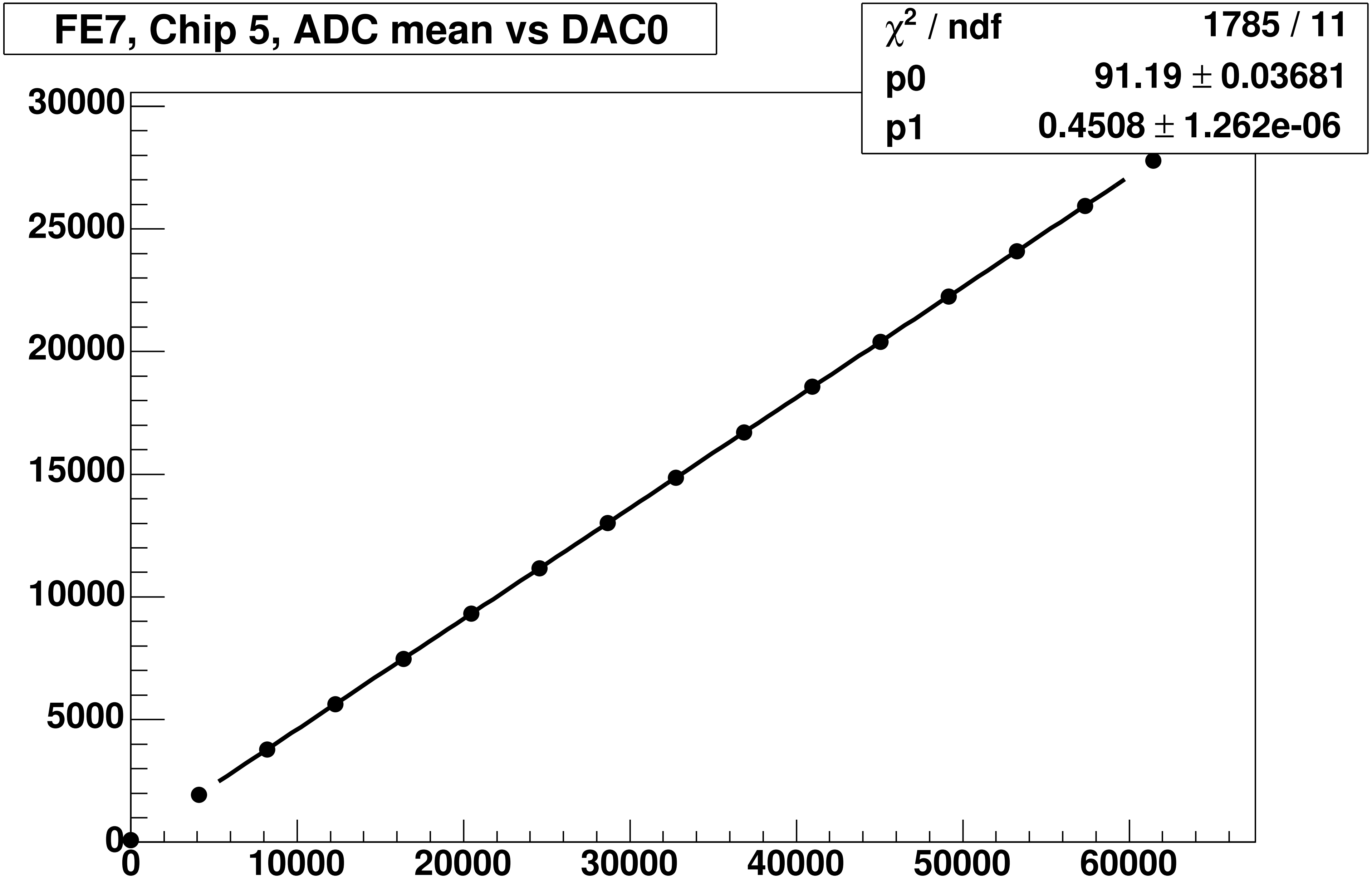

FE7, Chip 4, ADC residuals vs DAC0
1
0
-1
-2
-3
-4
-5
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC mean vs DAC1
χ² / ndf 16.65 / 11
p0 96.15 ± 0.04116
p1 -2.603e-06 ± 1.13e-06
96.3
96.2
96.1
96
95.9
0
10000
20000
30000
40000
50000
60000

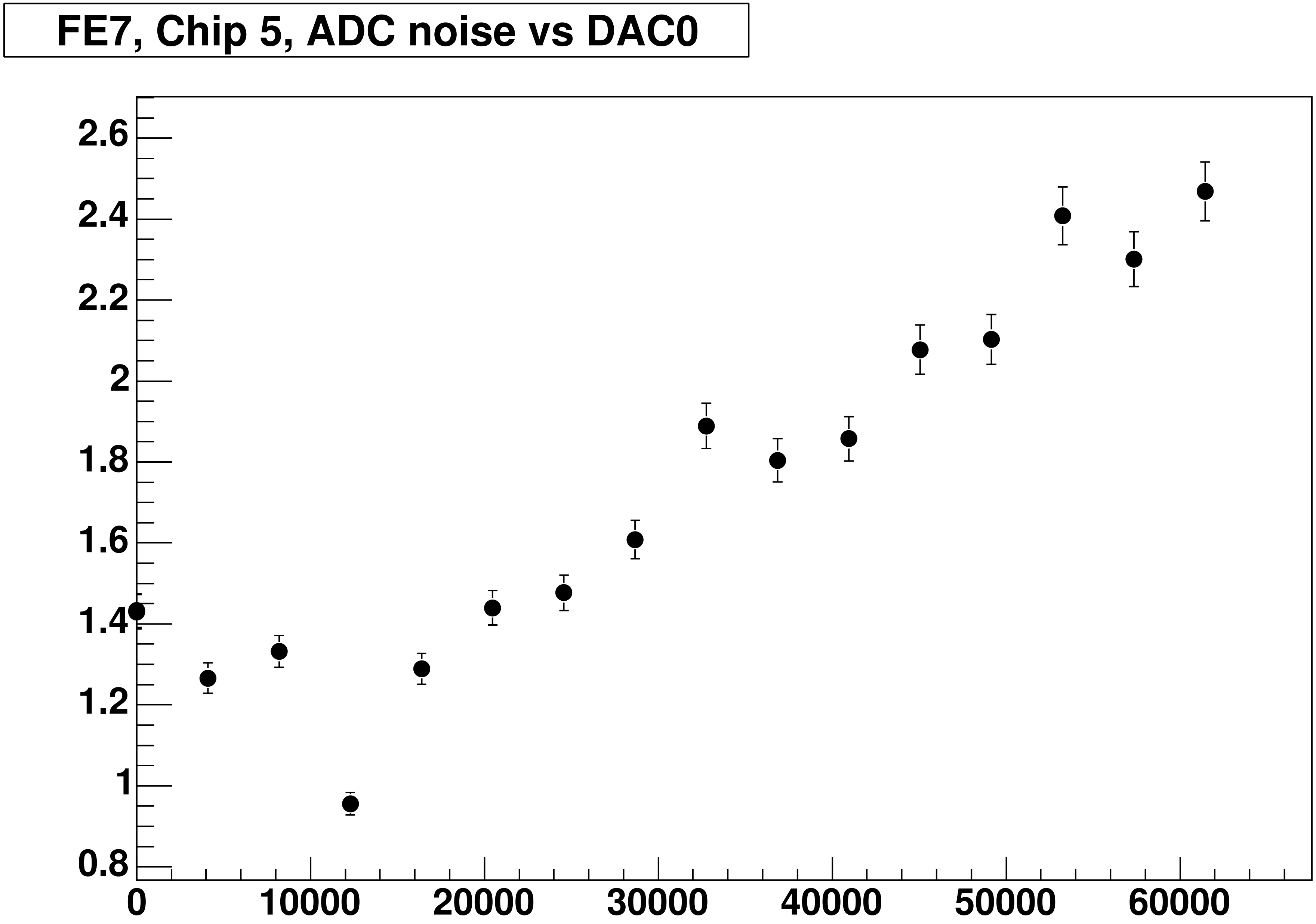


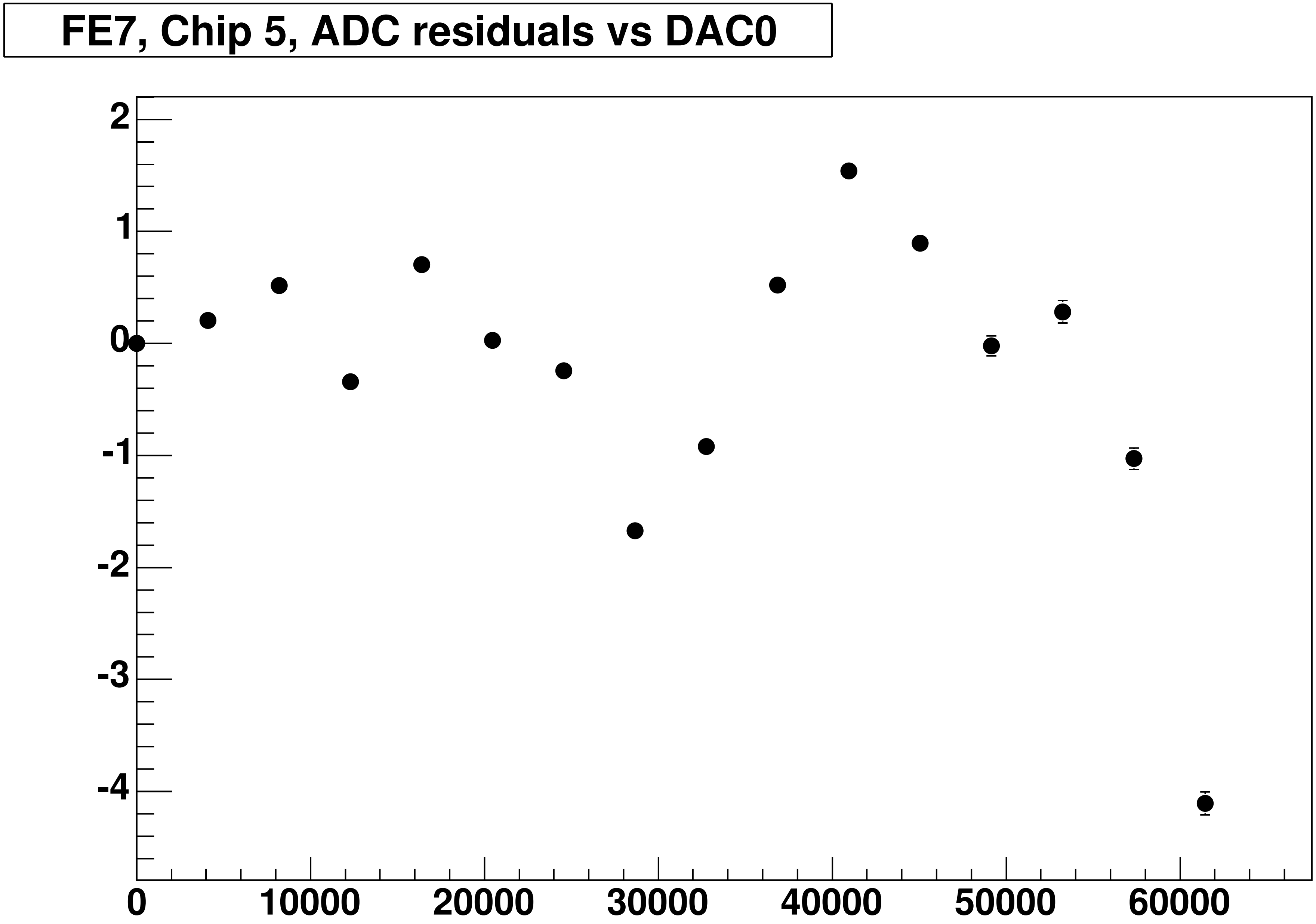
FE7, Chip 4, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
0
10000
20000
30000
40000
50000
60000

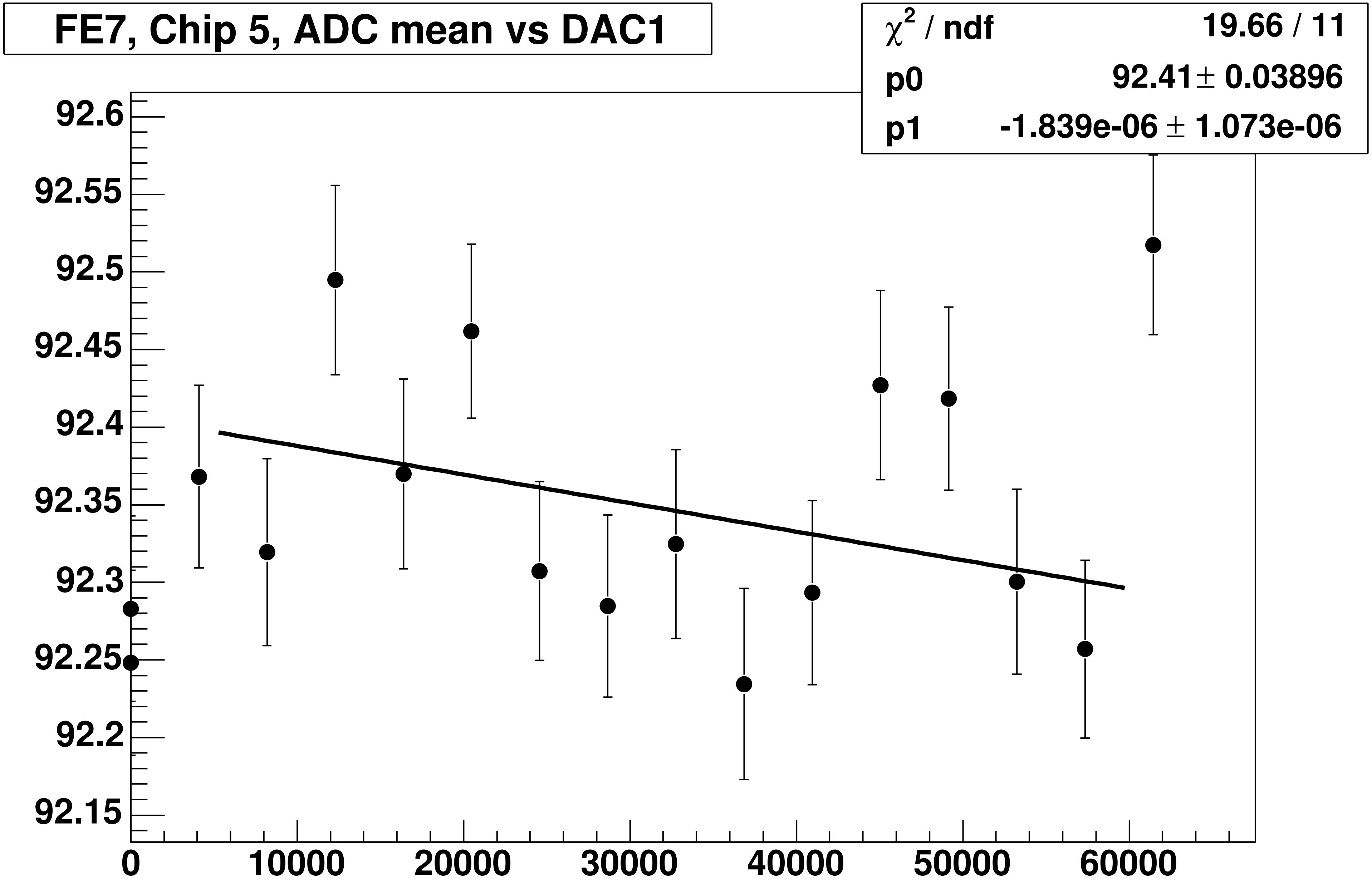

FE7, Chip 4, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

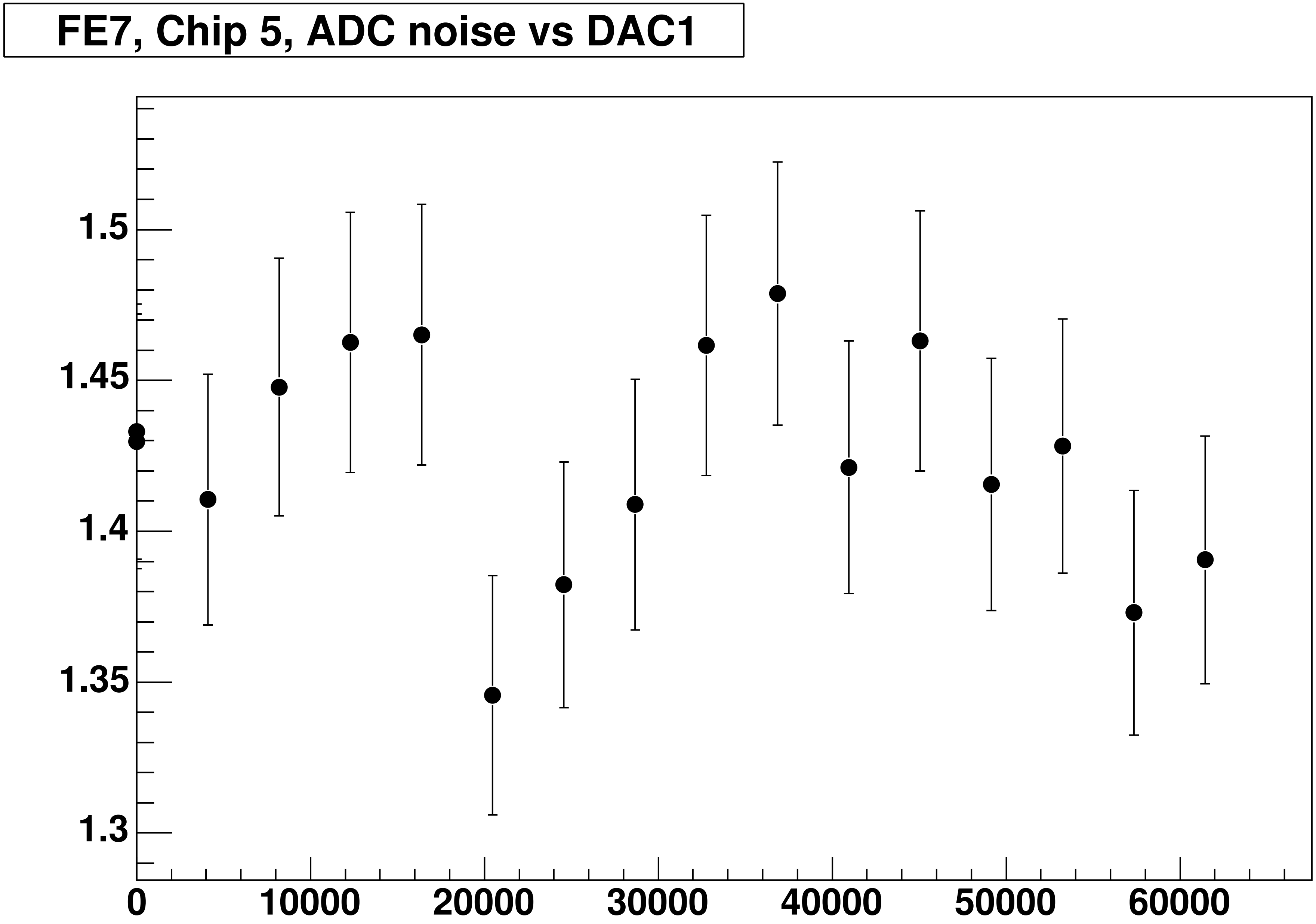


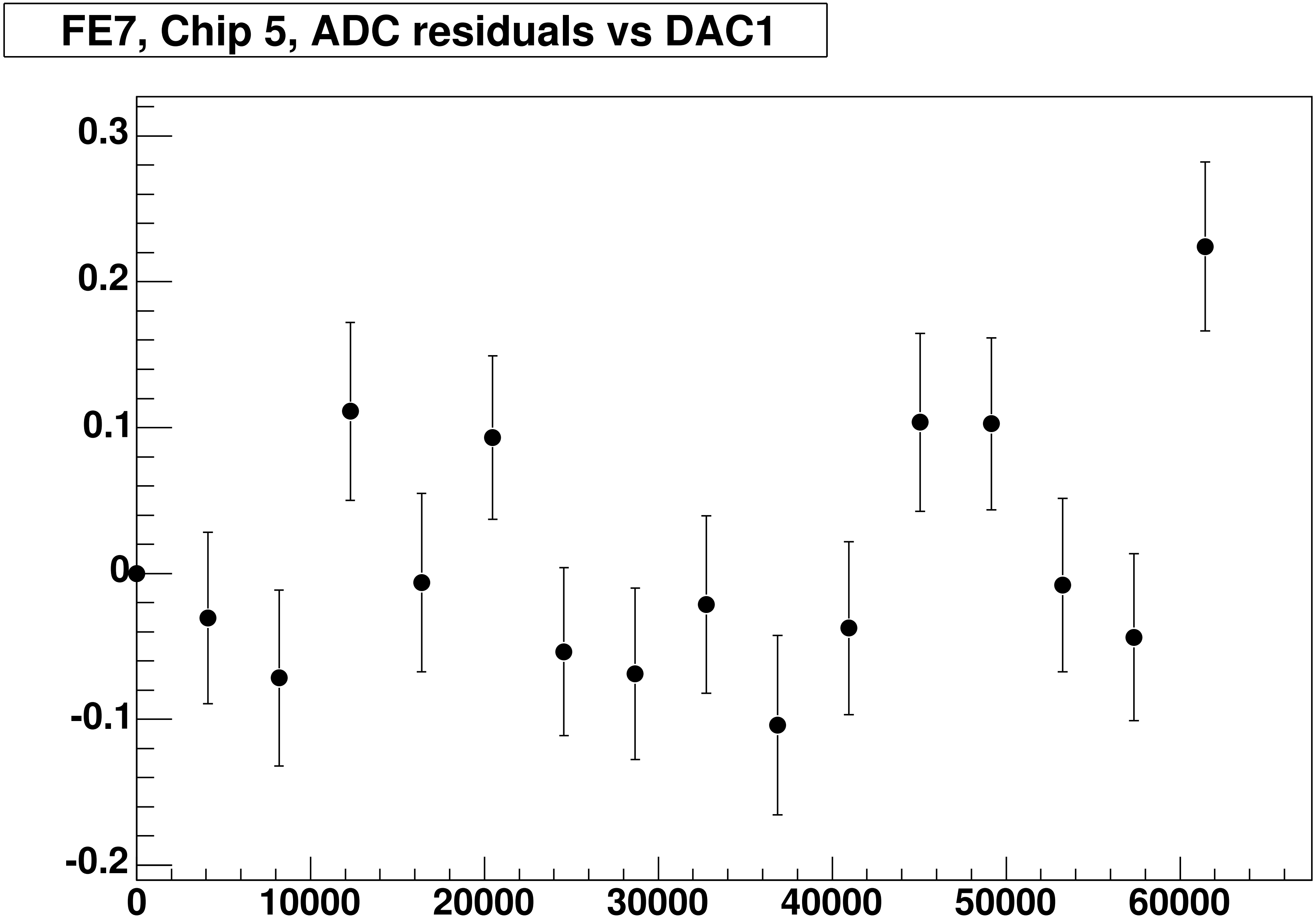
FE7, Chip 5, ADC mean vs DAC0
χ² / ndf 1785 / 11
p0 91.19 ± 0.03681
p1 0.4508 ± 1.262e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

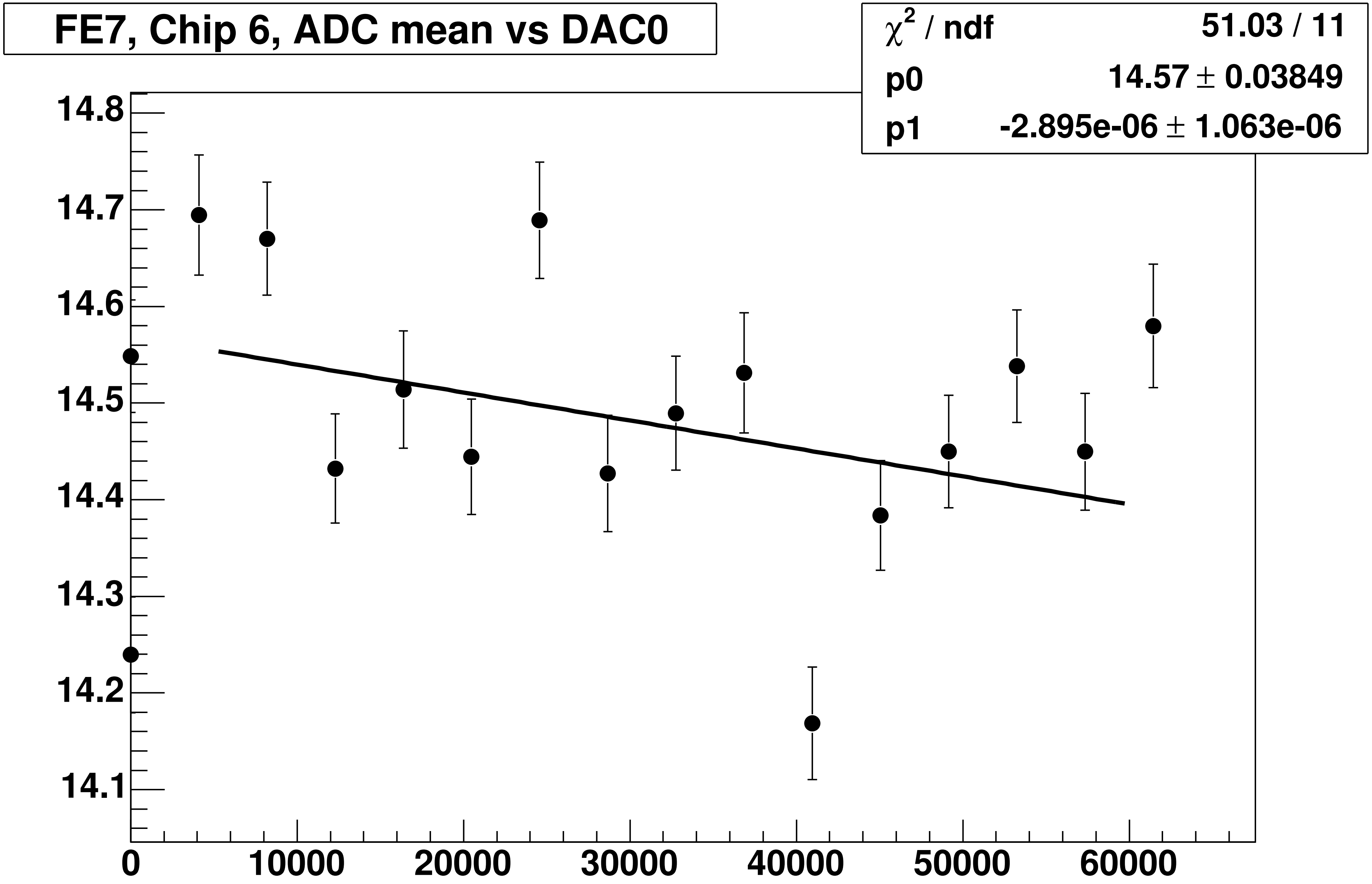

FE7, Chip 5, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0
10000
20000
30000
40000
50000
60000


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

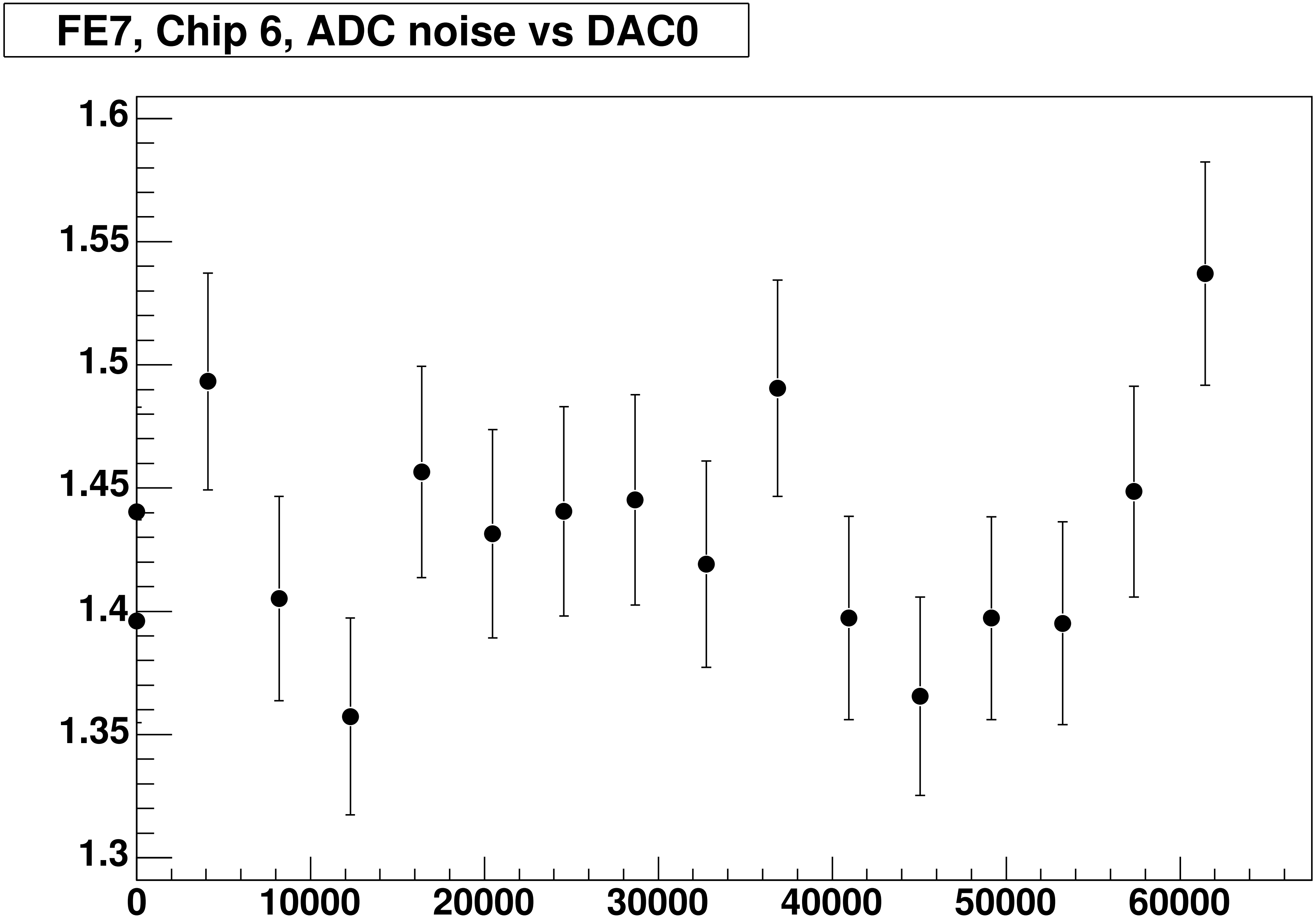

FE7, Chip 5, ADC mean vs DAC1
χ^2 / ndf 19.66 / 11
p0 92.41 ± 0.03896
p1 -1.839e-06 ± 1.073e-06
92.6
92.55
92.5
92.45
92.4
92.35
92.3
92.25
92.2
92.15
0
10000
20000
30000
40000
50000
60000


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

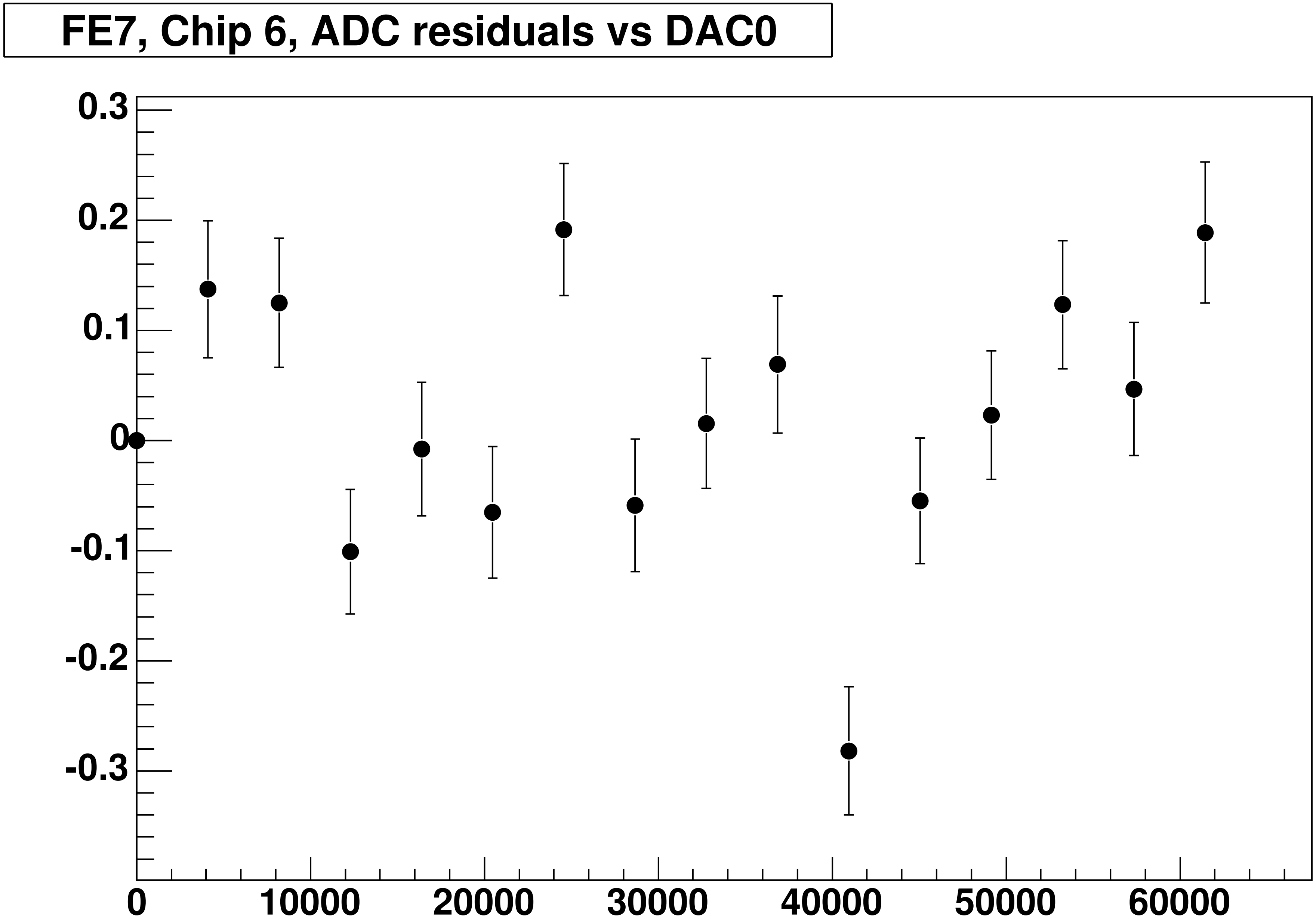

FE7, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
0
10000
20000
30000
40000
50000
60000

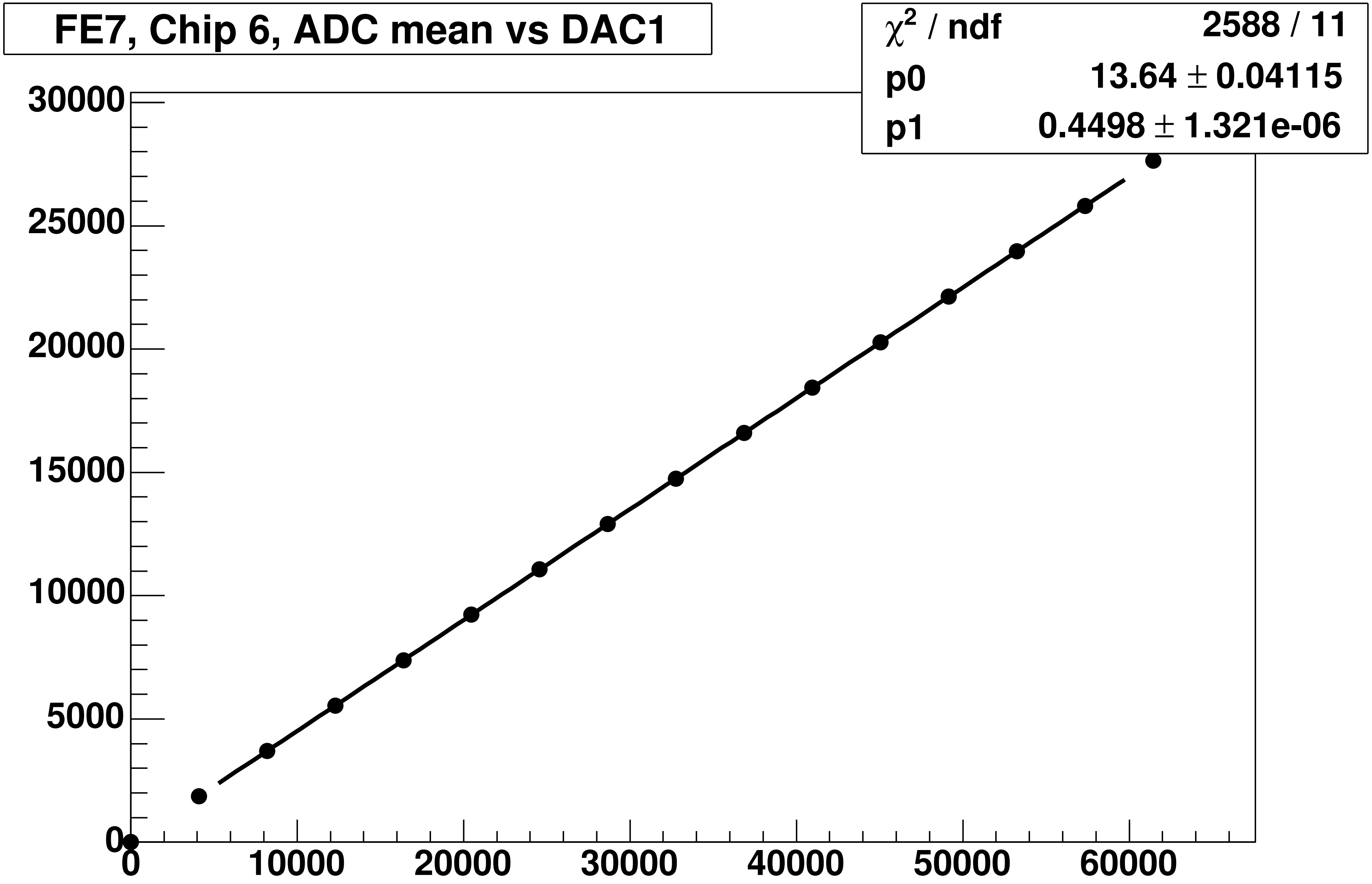


FE7, Chip 6, ADC mean vs DAC0
χ² / ndf 51.03 / 11
p0 14.57 ± 0.03849
p1 -2.895e-06 ± 1.063e-06
14.8
14.7
14.6
14.5
14.4
14.3
14.2
14.1
0
10000
20000
30000
40000
50000
60000

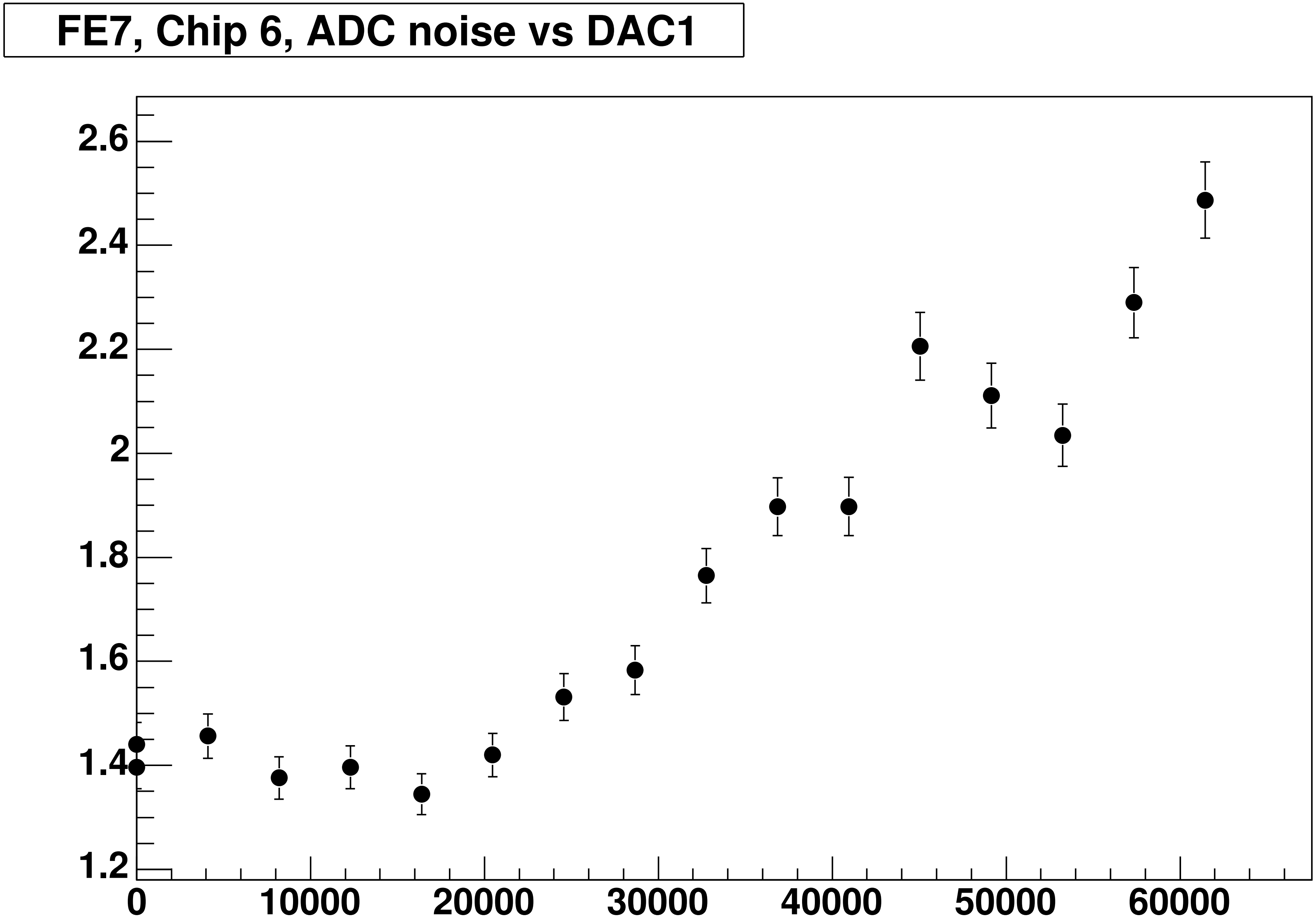


FE7, Chip 6, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000

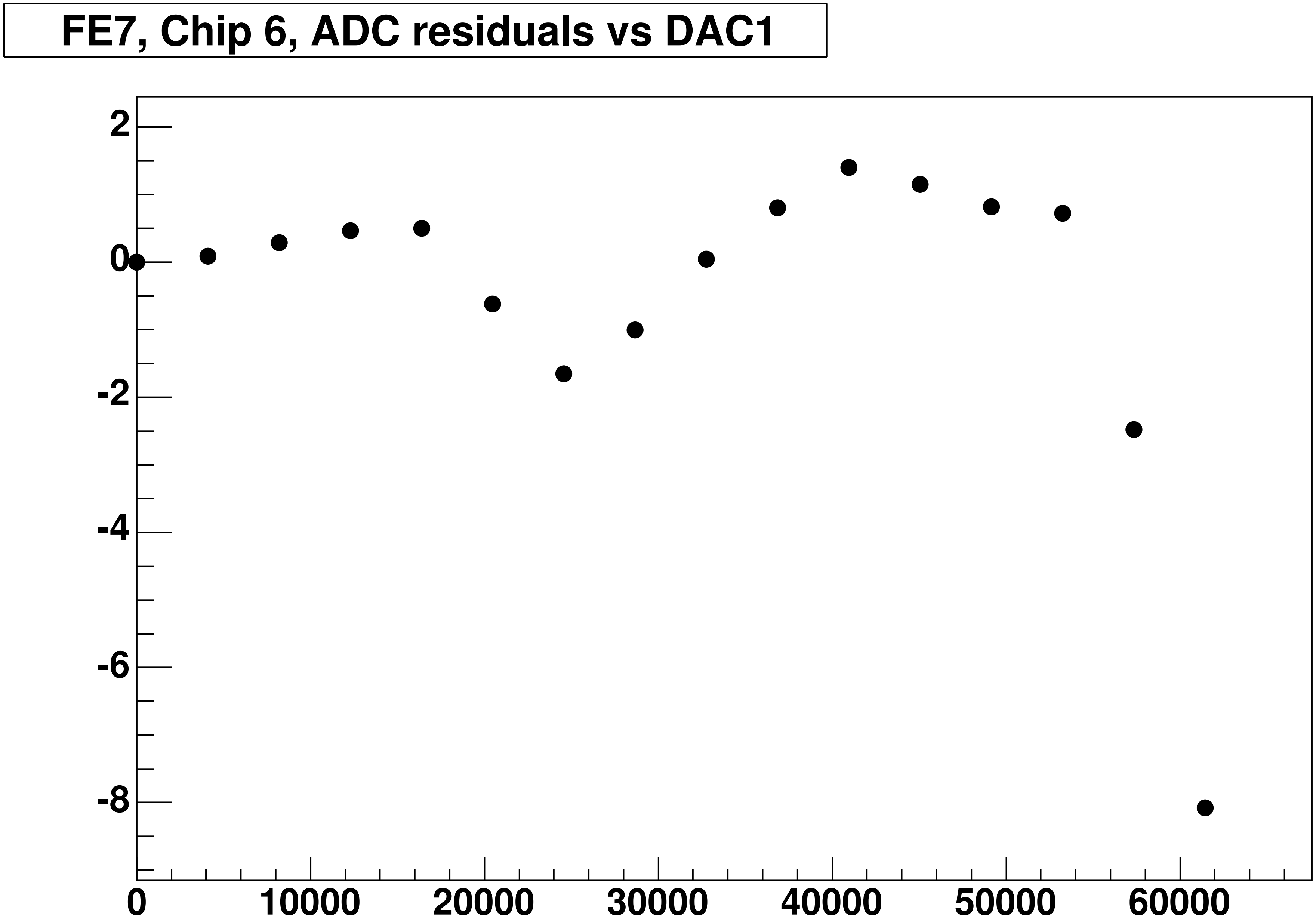

FE7, Chip 6, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000



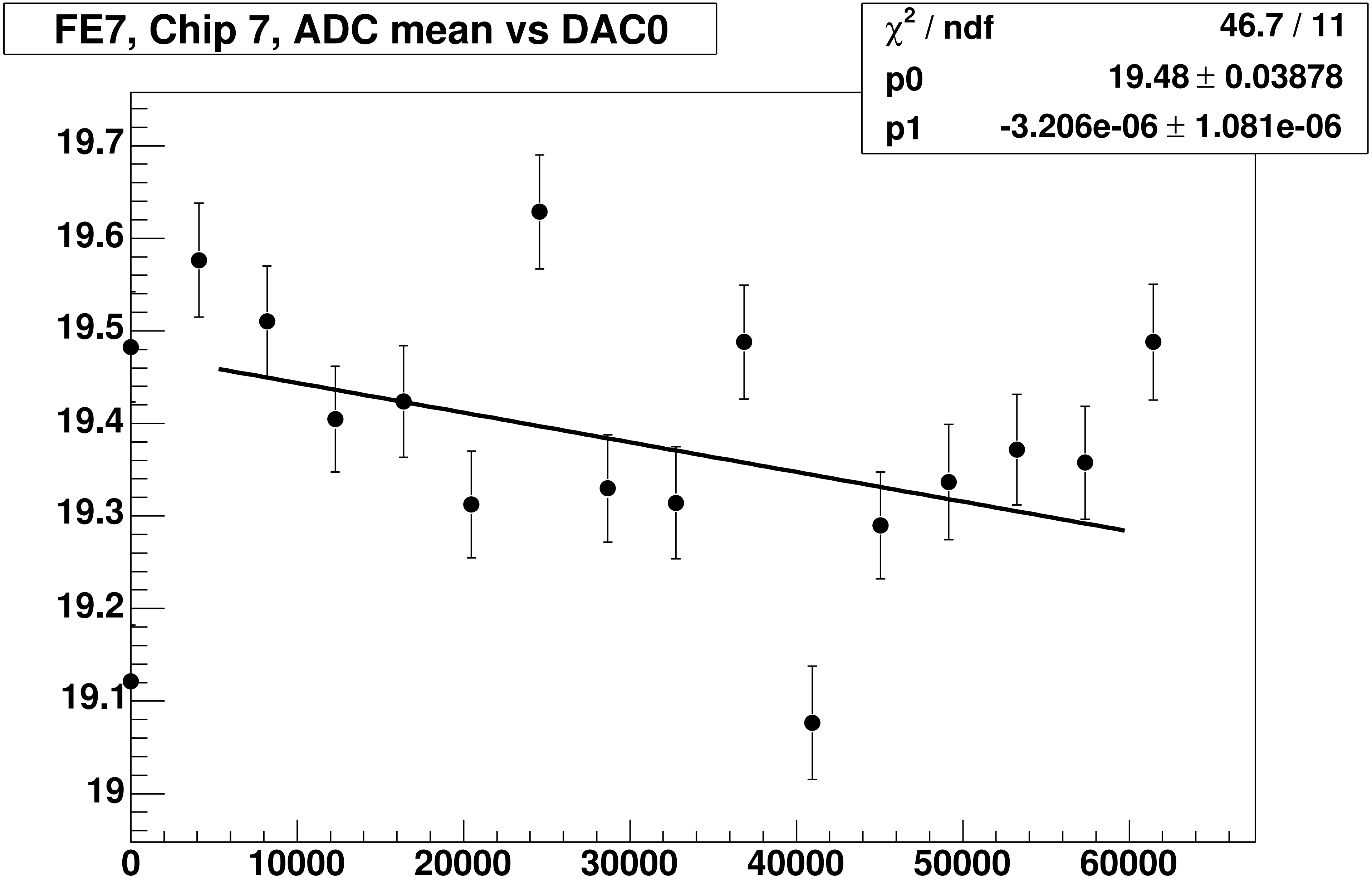
FE7, Chip 6, ADC mean vs DAC1
χ2 / ndf 2588 / 11
p0 13.64 ± 0.04115
p1 0.4498 ± 1.321e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000



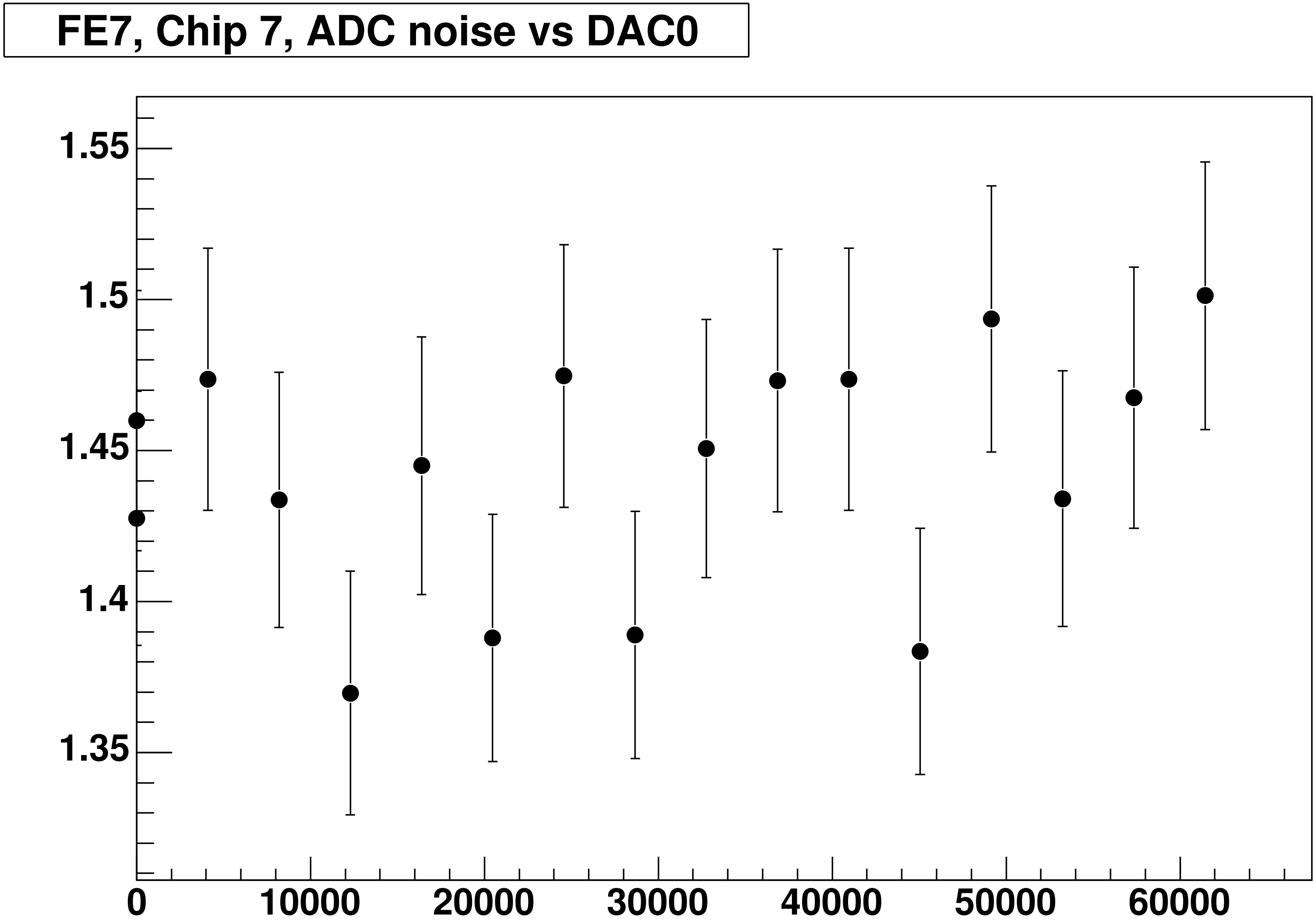
FE7, Chip 6, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

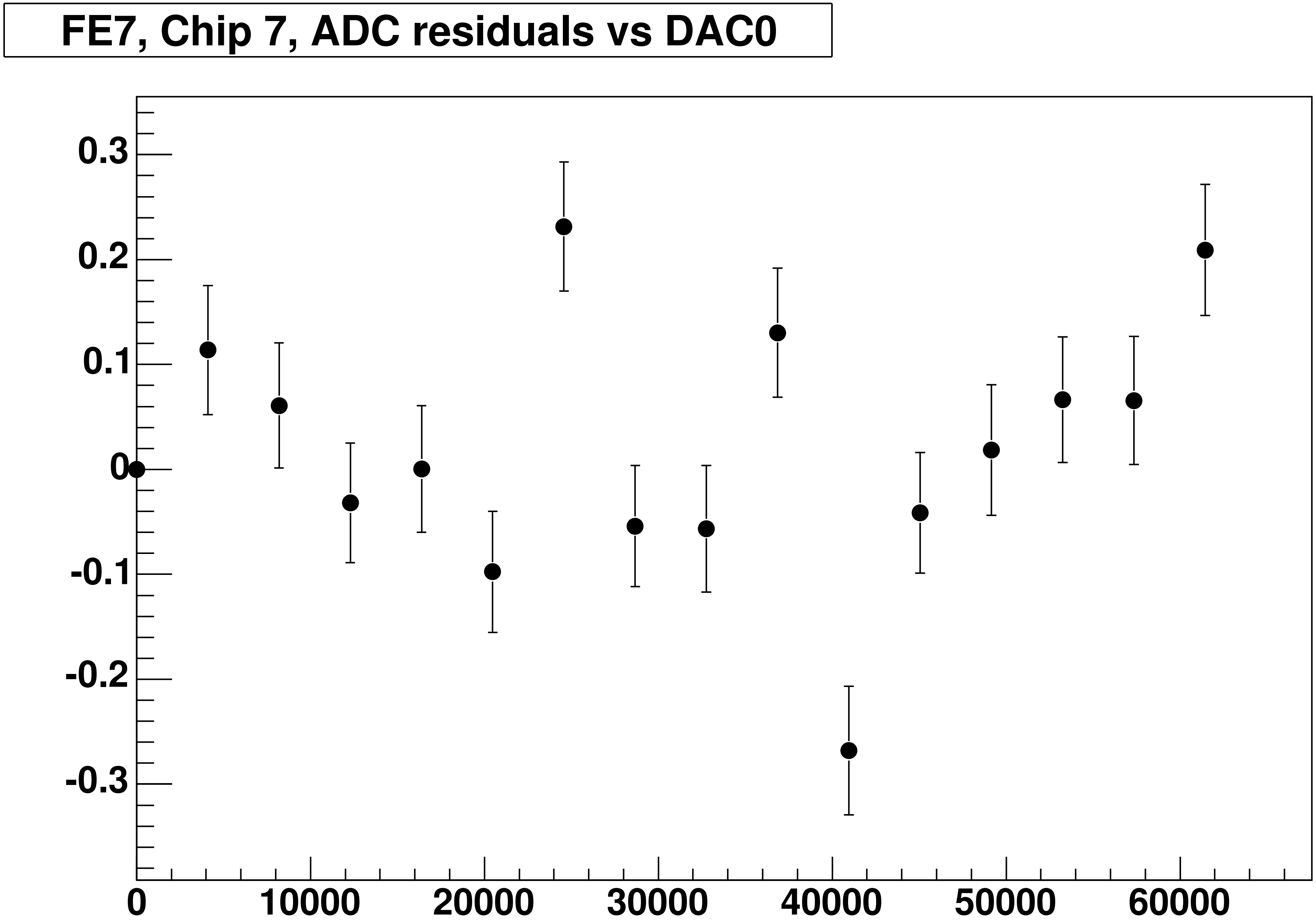


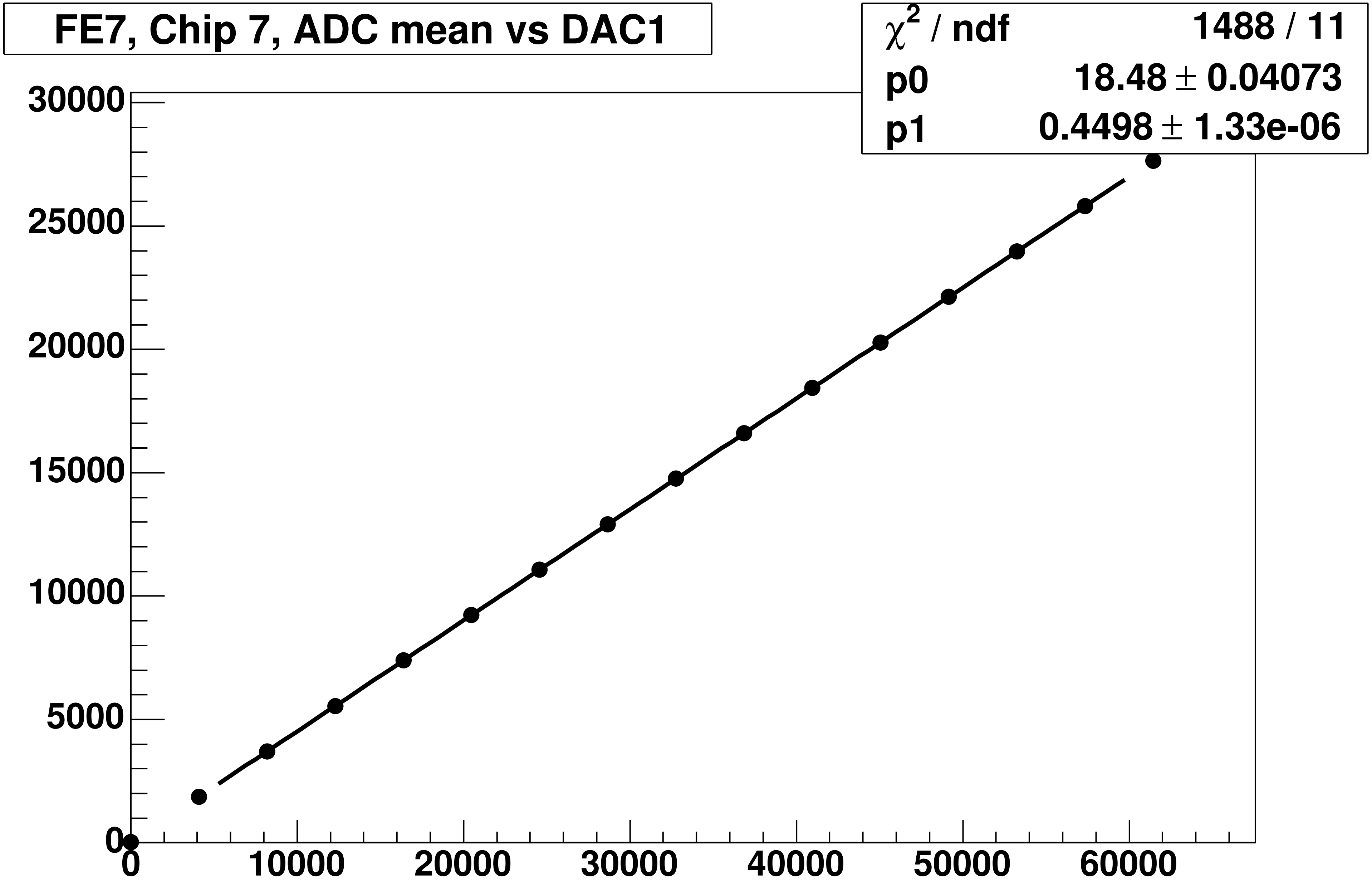
FE7, Chip 6, ADC residuals vs DAC1
2
0
-2
-4
-6
-8
0
10000
20000
30000
40000
50000
60000



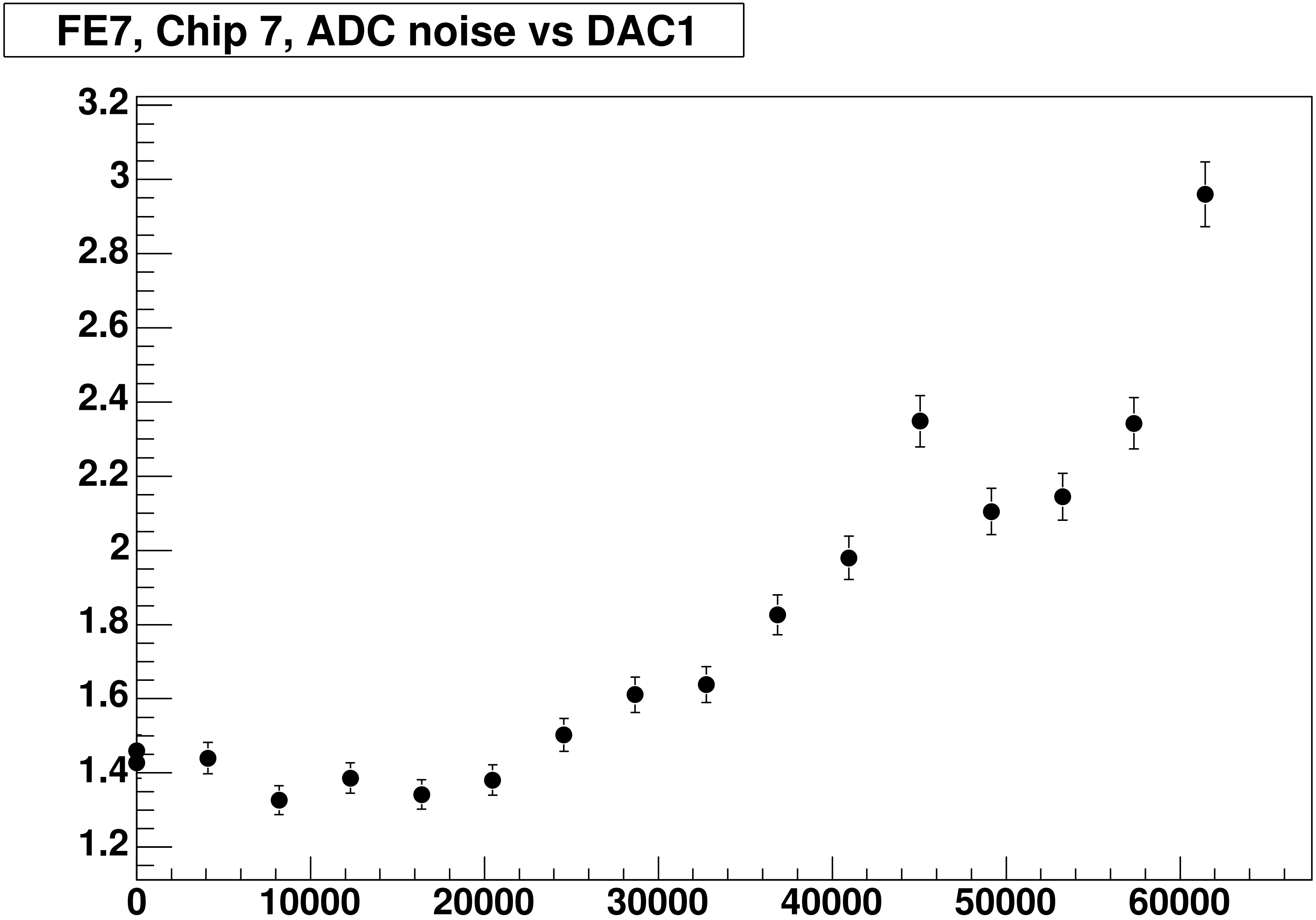
FE7, Chip 7, ADC mean vs DAC0
χ2 / ndf 46.7 / 11
p0 19.48 ± 0.03878
p1 -3.206e-06 ± 1.081e-06
19.7
19.6
19.5
19.4
19.3
19.2
19.1
19
0
10000
20000
30000
40000
50000
60000


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

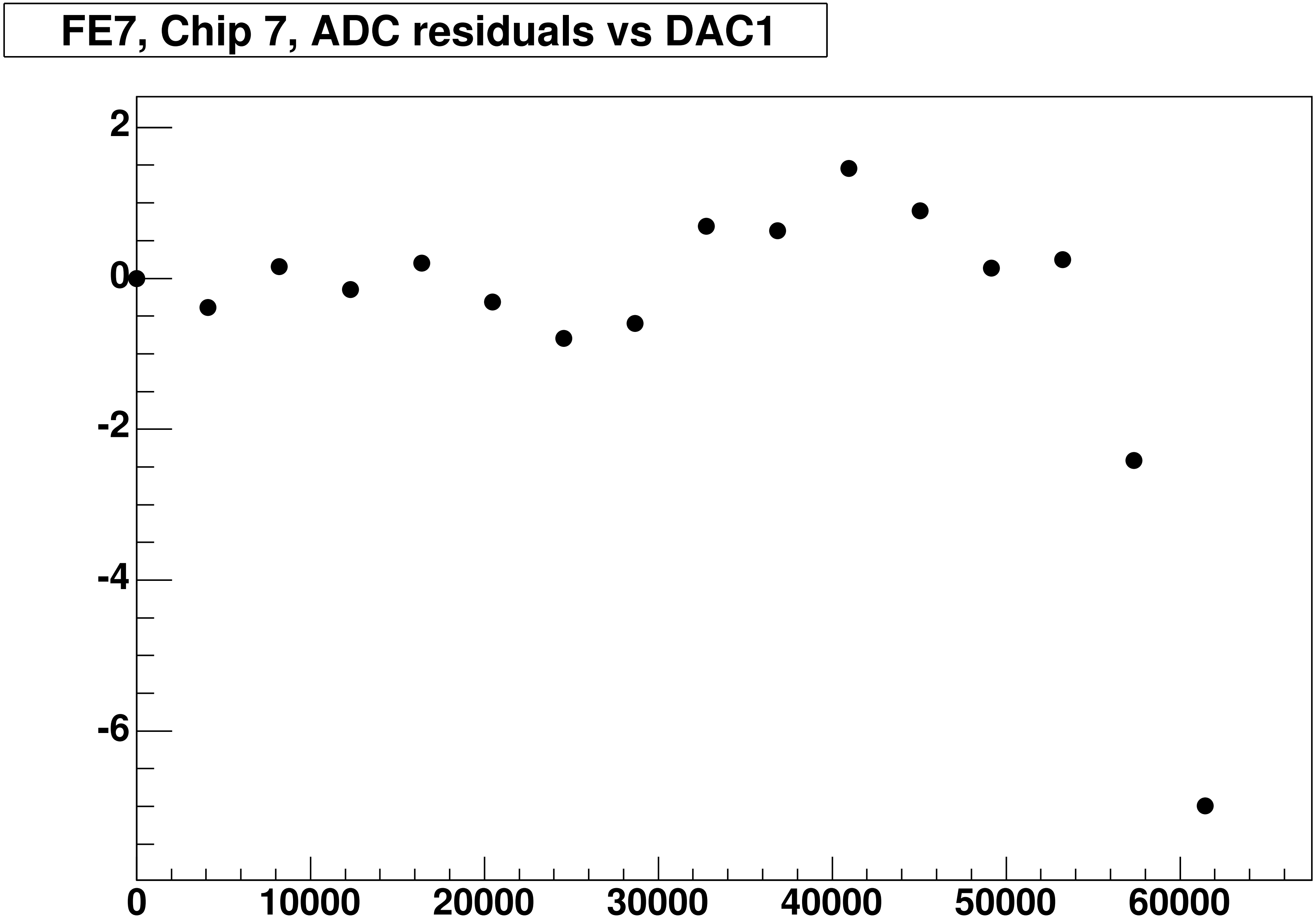

FE7, Chip 7, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000

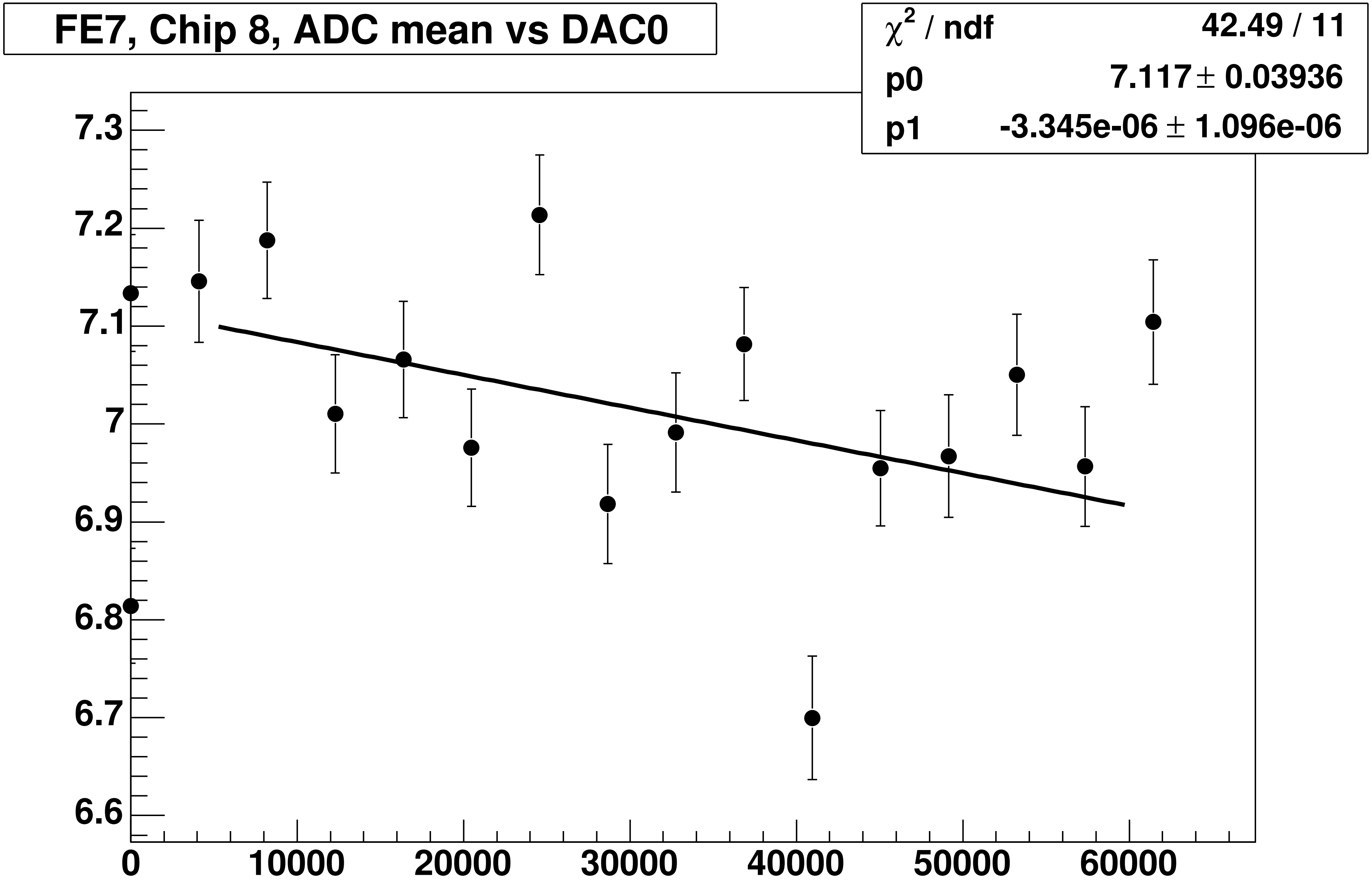


FE7, Chip 7, ADC mean vs DAC1
χ^2 / ndf 1488 / 11
p0 18.48 ± 0.04073
p1 0.4498 ± 1.33e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

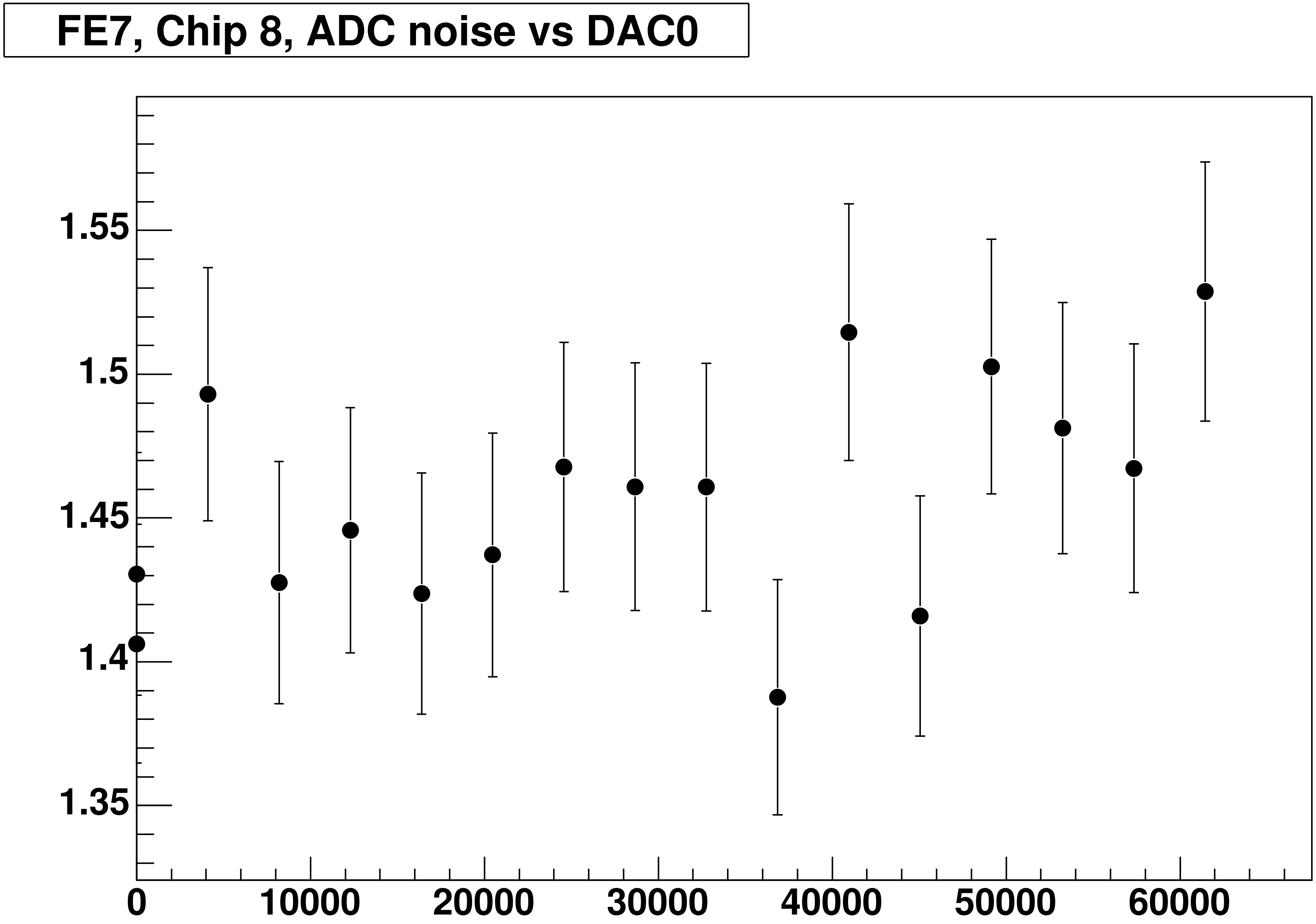


FE7, Chip 7, ADC noise vs DAC1
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

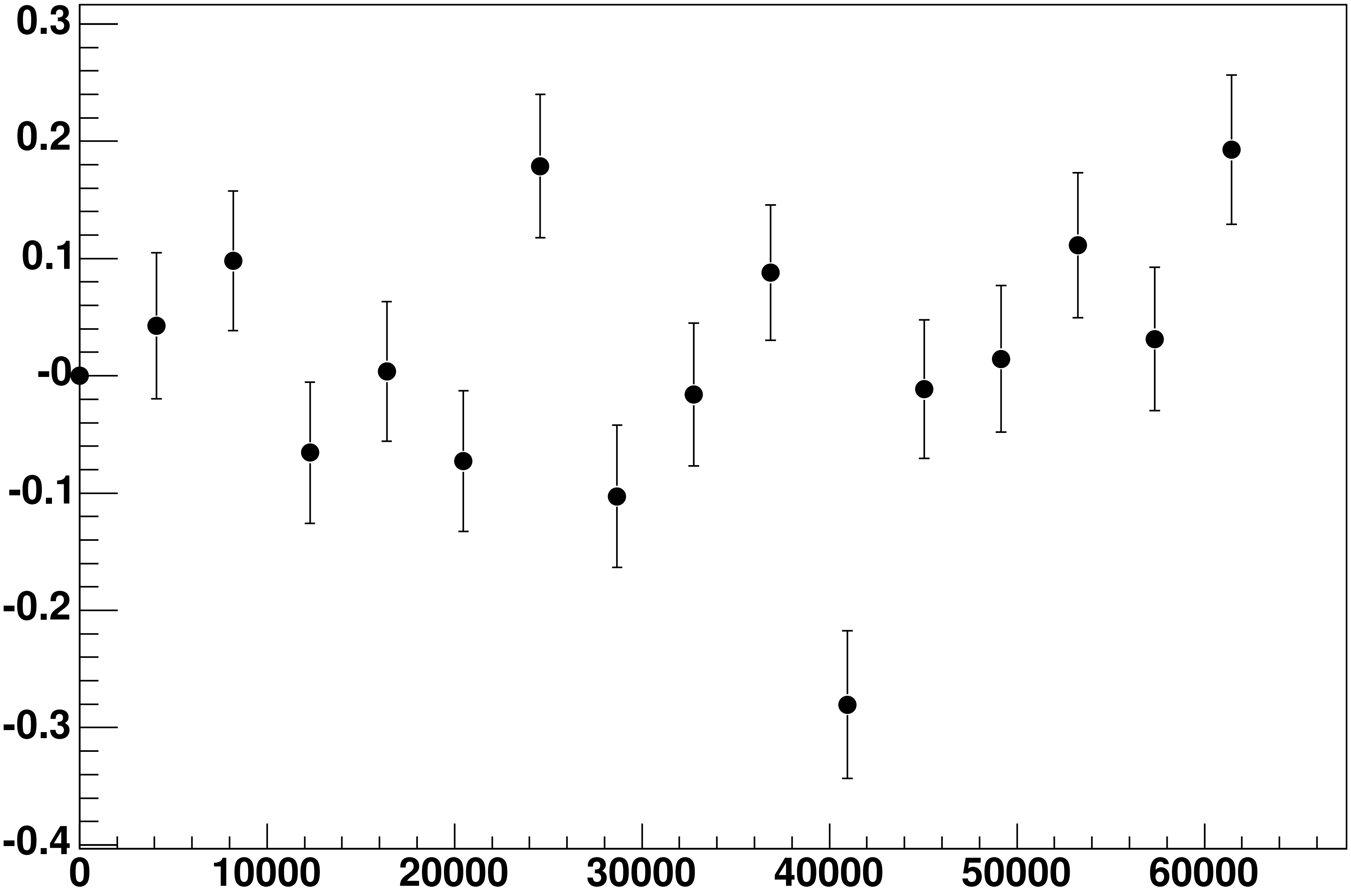

FE7, Chip 7, ADC residuals vs DAC1
2
0
-2
-4
-6
0
10000
20000
30000
40000
50000
60000

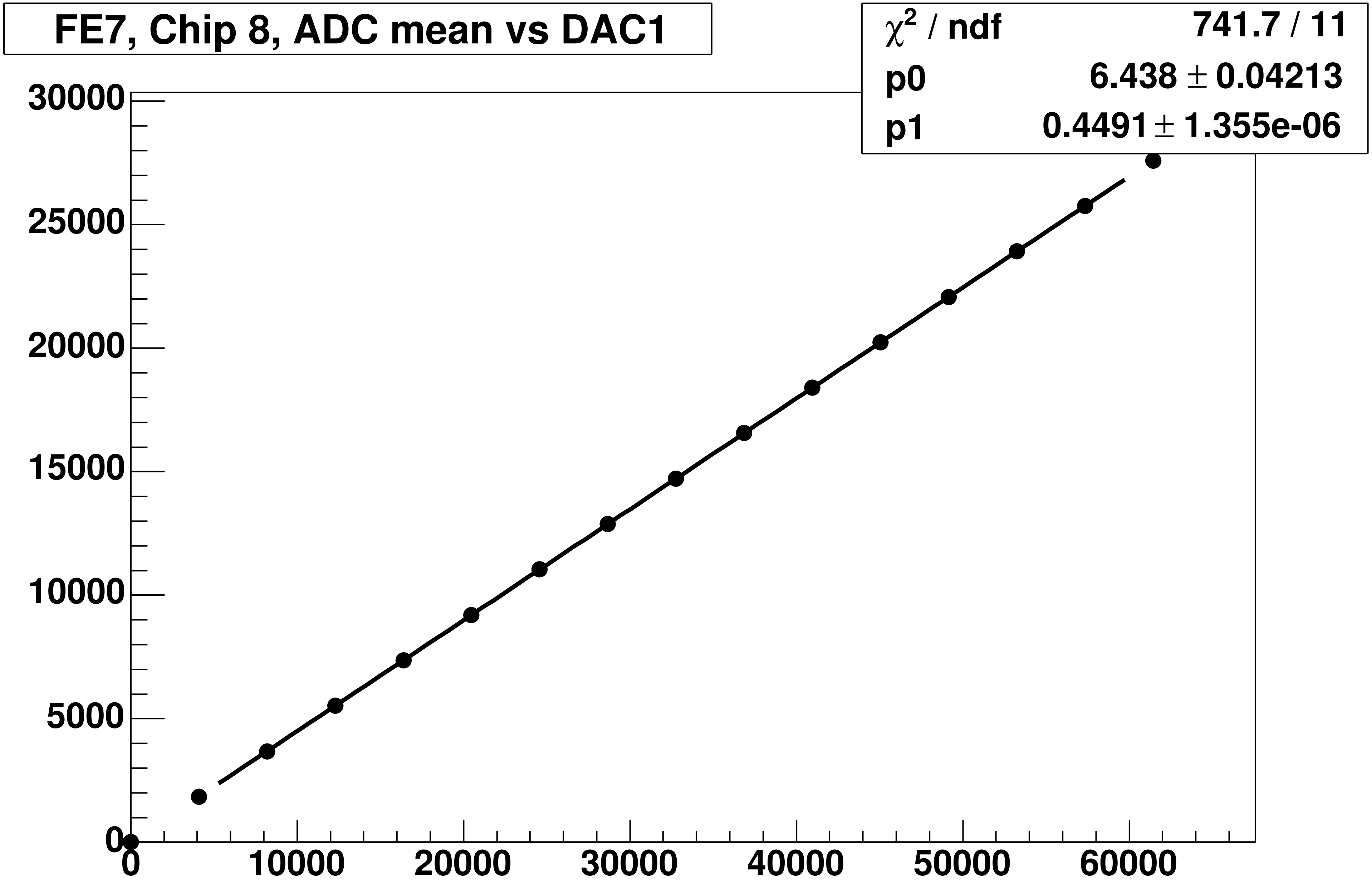


FE7, Chip 8, ADC mean vs DAC0
χ² / ndf 42.49 / 11
p0 7.117 ± 0.03936
p1 -3.345e-06 ± 1.096e-06
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
0
10000
20000
30000
40000
50000
60000

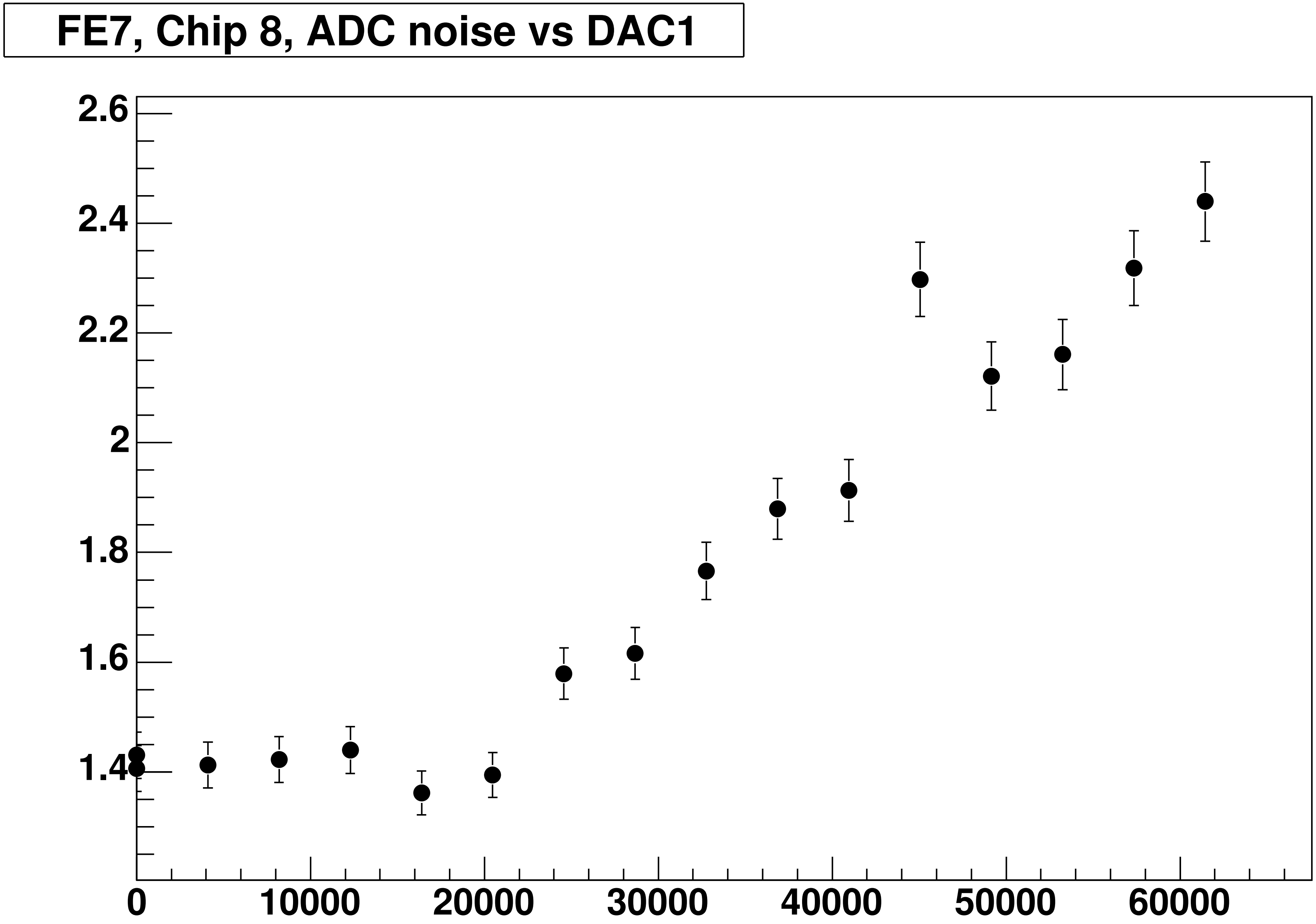

FE7, Chip 8, ADC noise vs DAC0
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

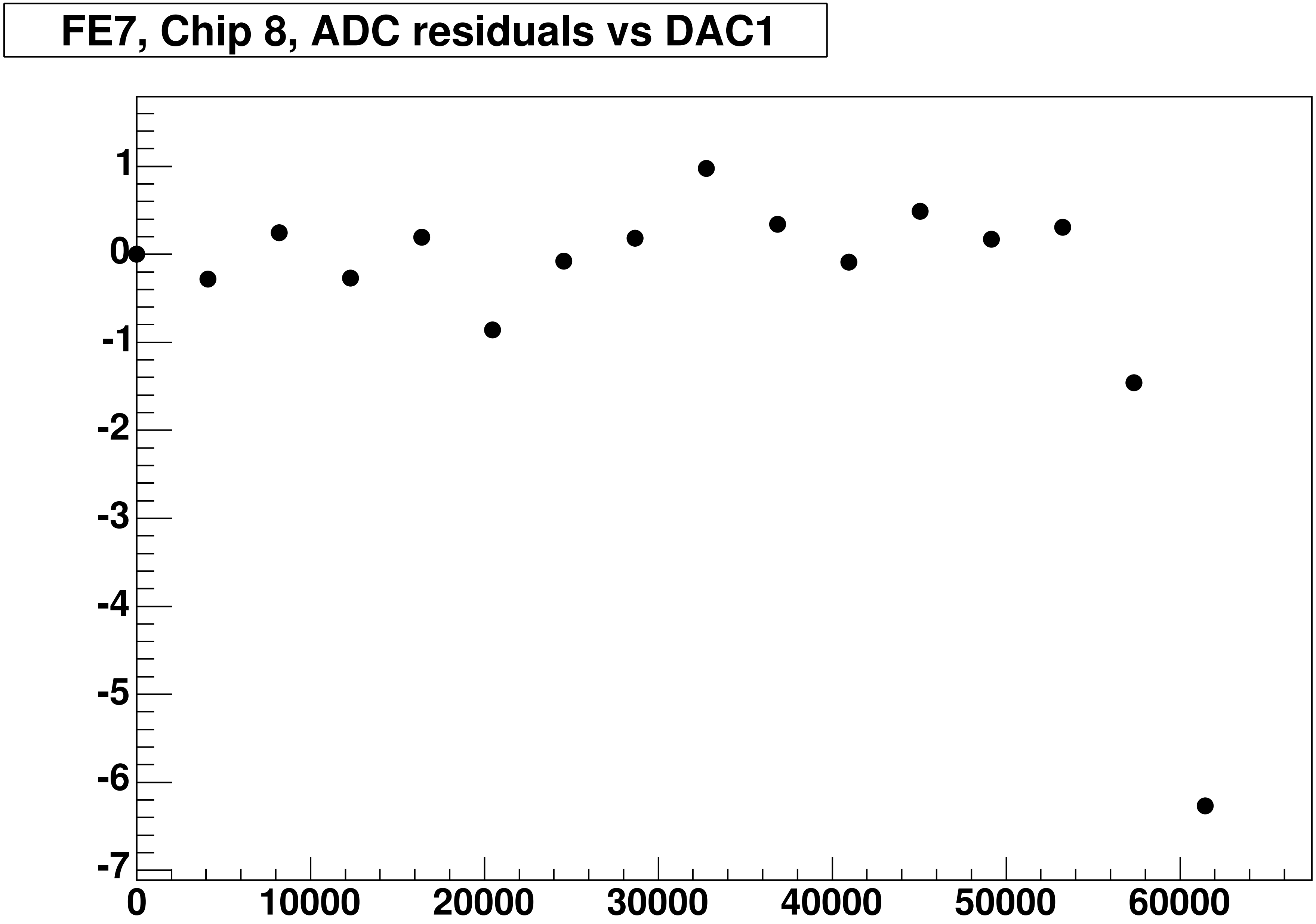
FE7, Chip 8, ADC residuals vs DAC0



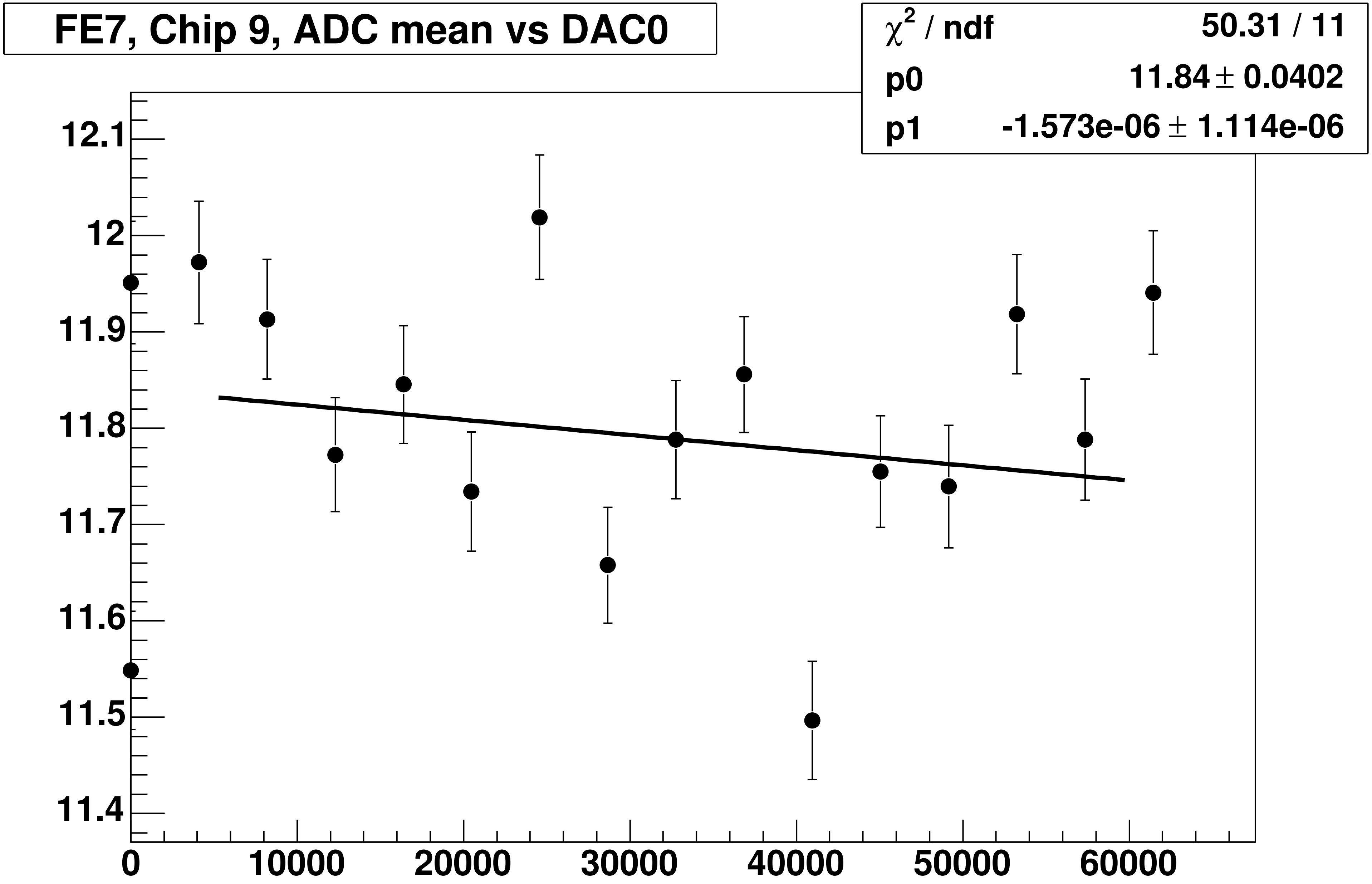


FE7, Chip 8, ADC mean vs DAC1
χ^2 / ndf 741.7 / 11
p0 6.438 ± 0.04213
p1 0.4491 ± 1.355e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

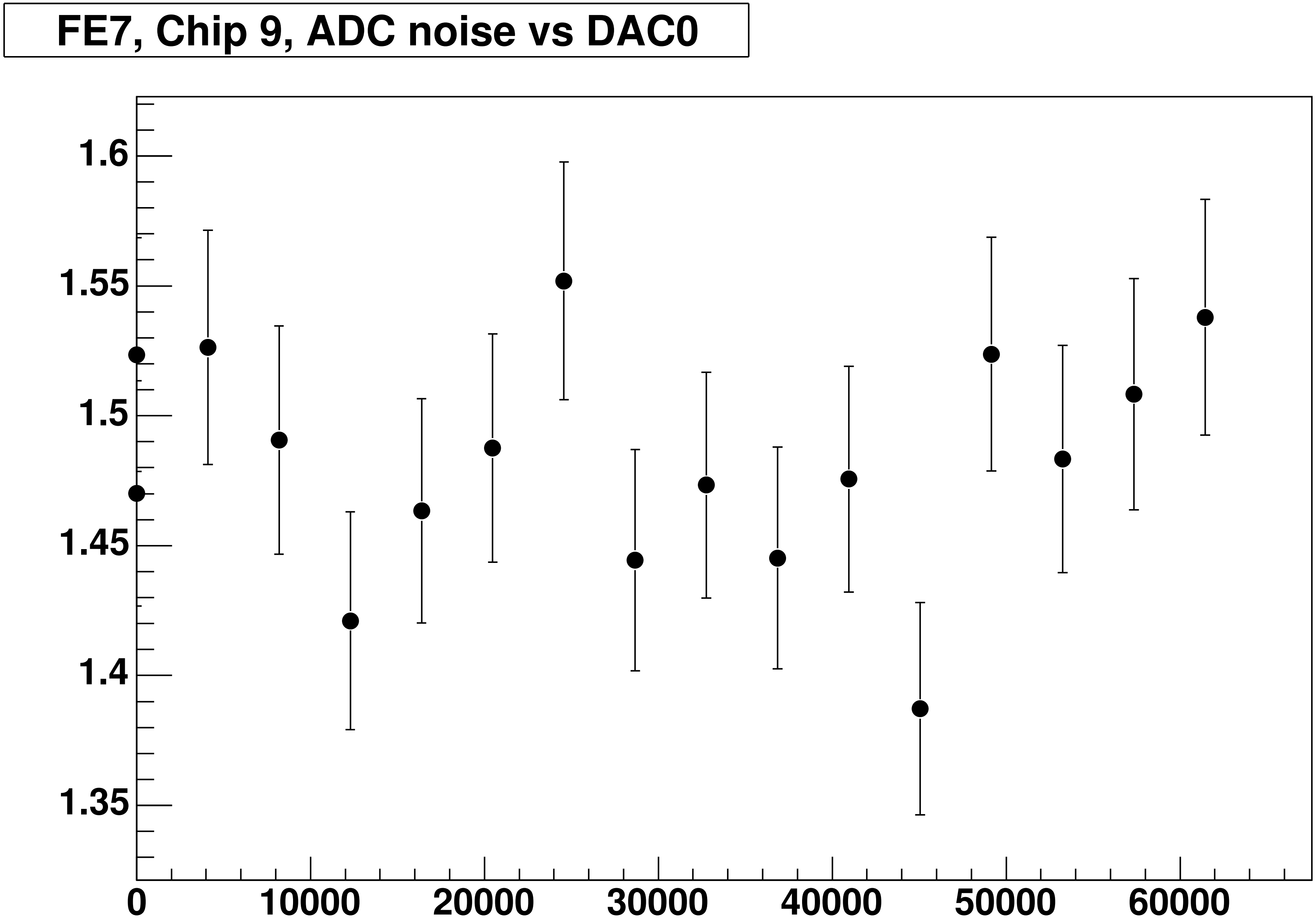

FE7, Chip 8, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

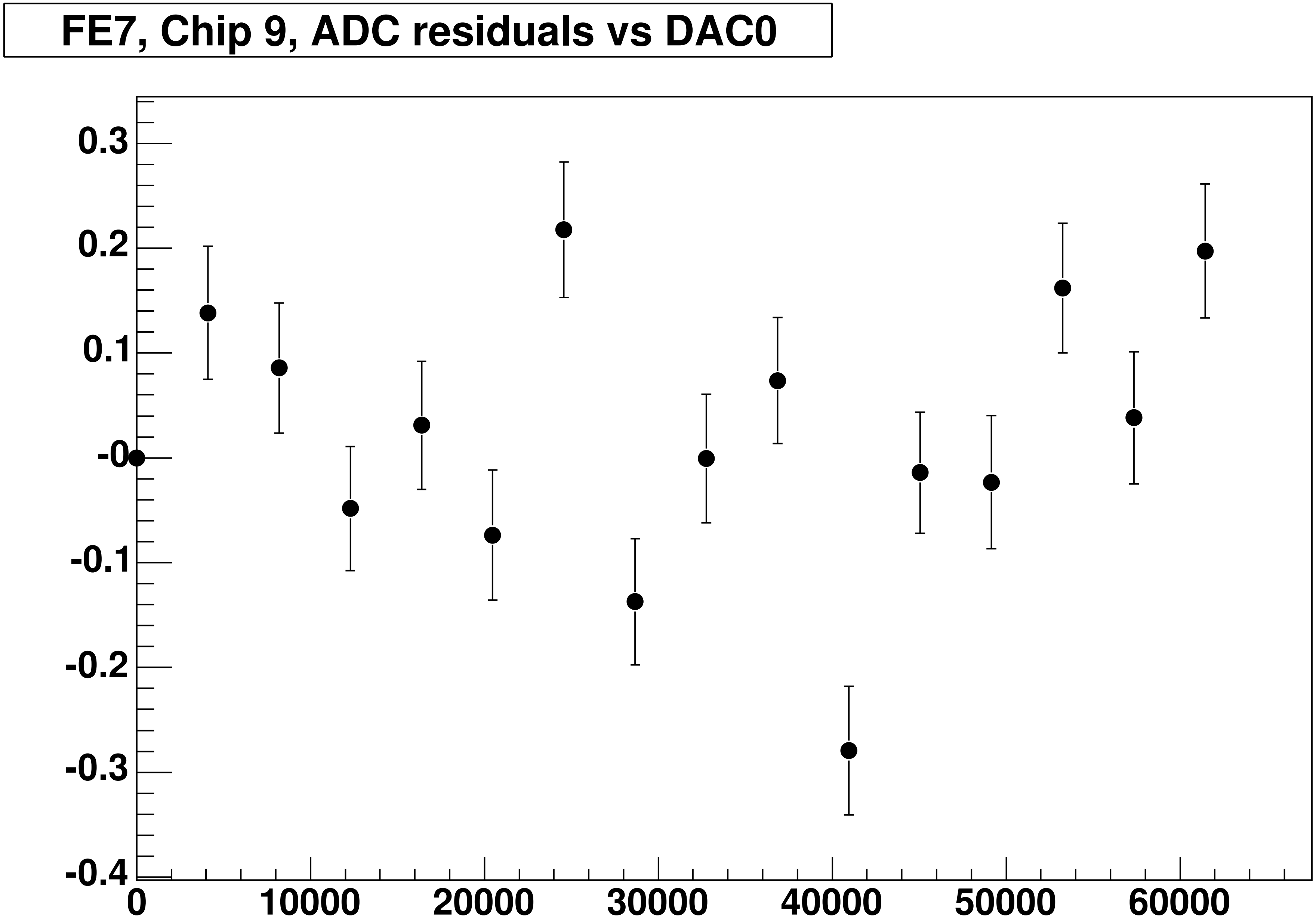


FE7, Chip 8, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

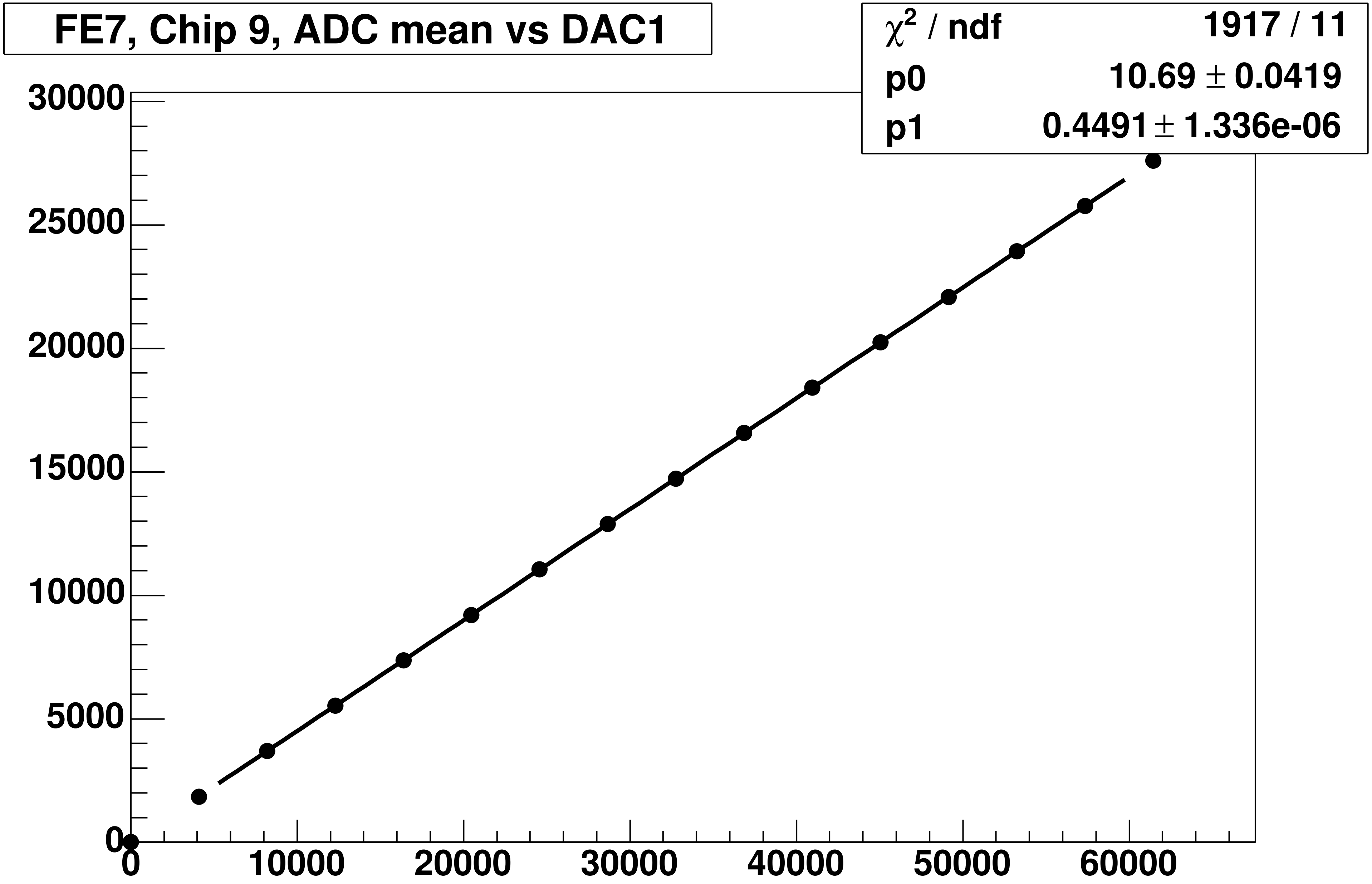


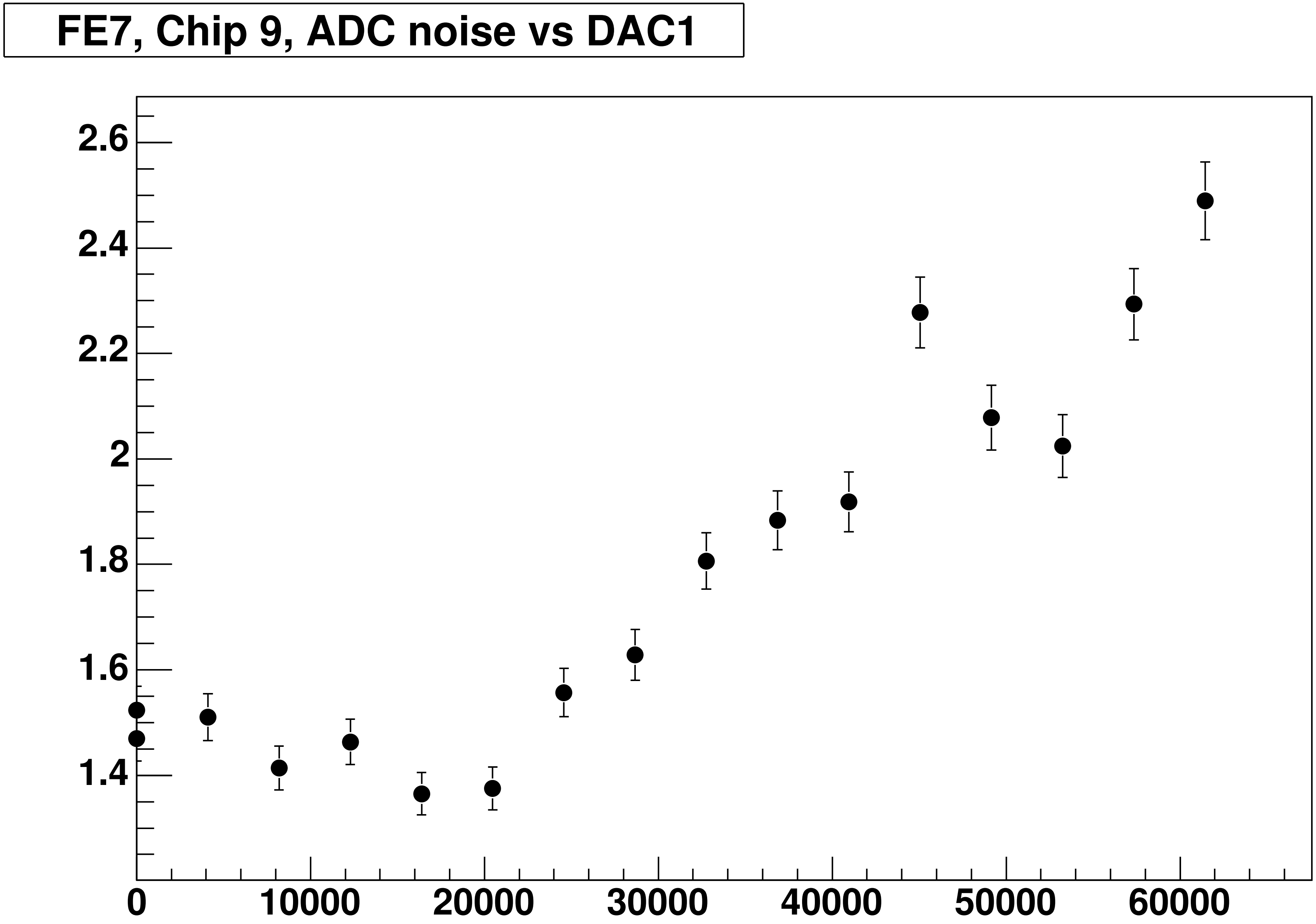
FE7, Chip 9, ADC mean vs DAC0
χ^2 / ndf 50.31 / 11
p0 11.84 ± 0.0402
p1 -1.573e-06 ± 1.114e-06
12.1
12
11.9
11.8
11.7
11.6
11.5
11.4
0
10000
20000
30000
40000
50000
60000

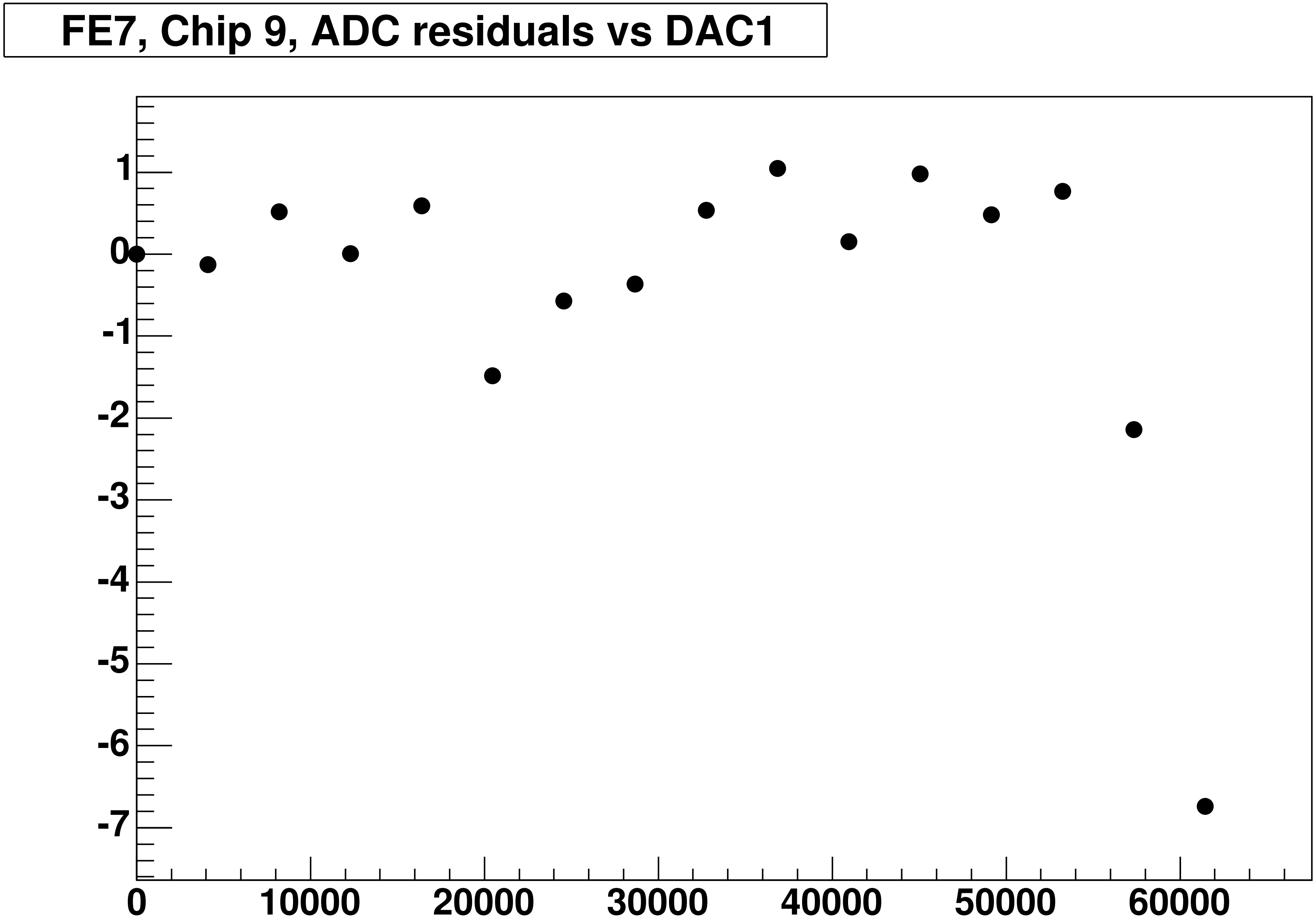

FE7, Chip 9, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000

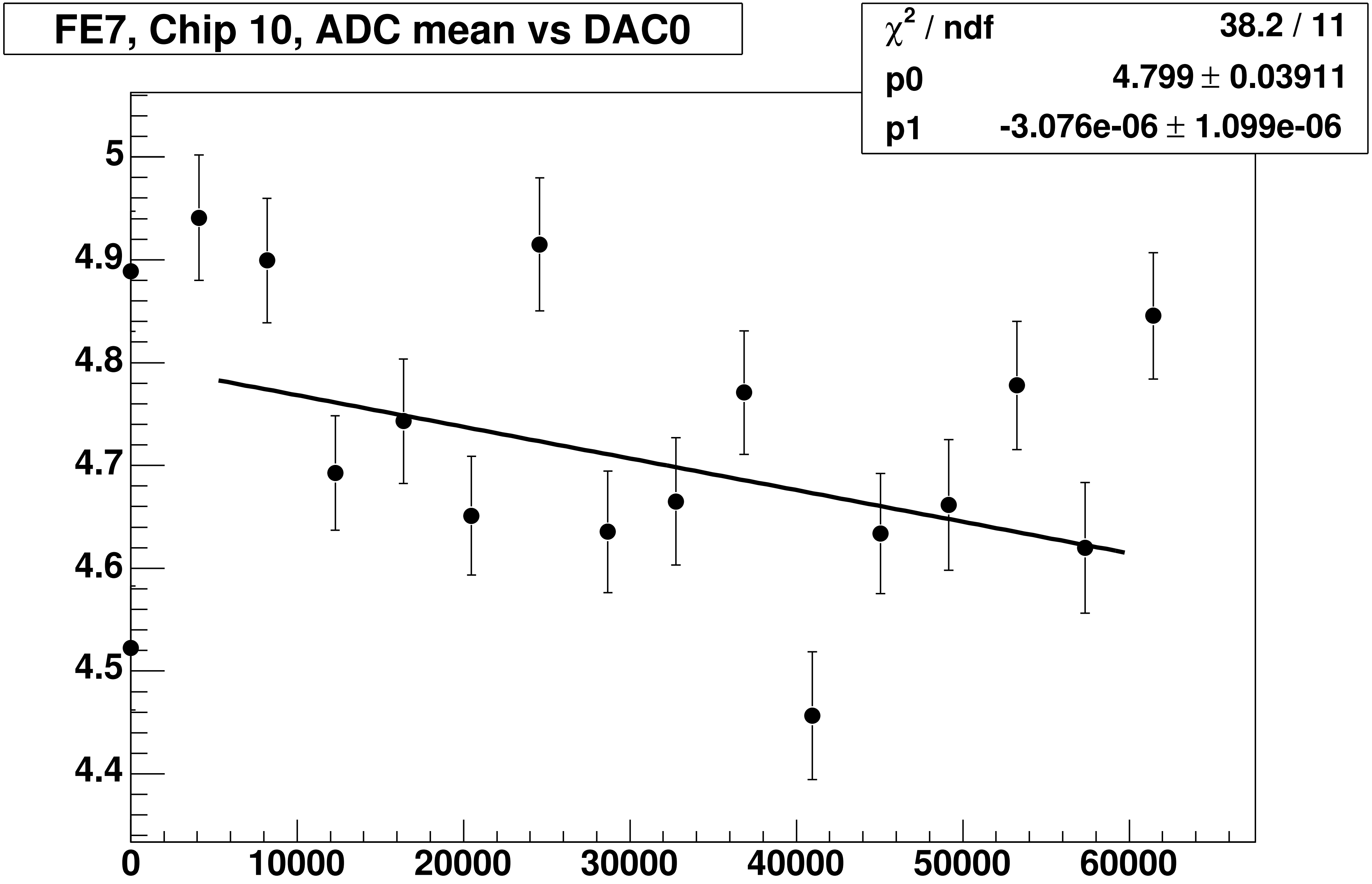


FE7, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000

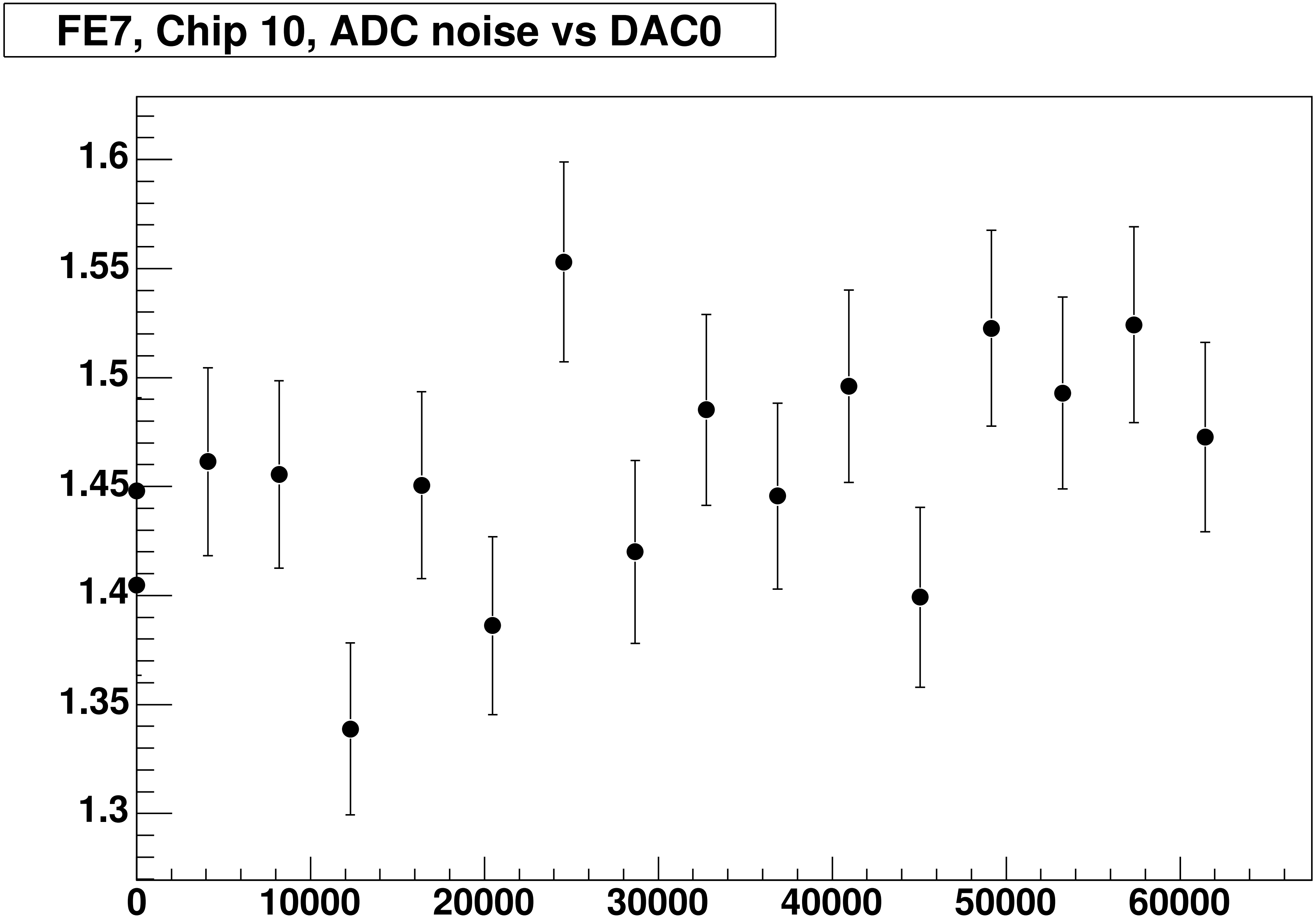

FE7, Chip 9, ADC mean vs DAC1
χ^2 / ndf 1917 / 11
p0 10.69 ± 0.0419
p1 0.4491 ± 1.336e-06
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000

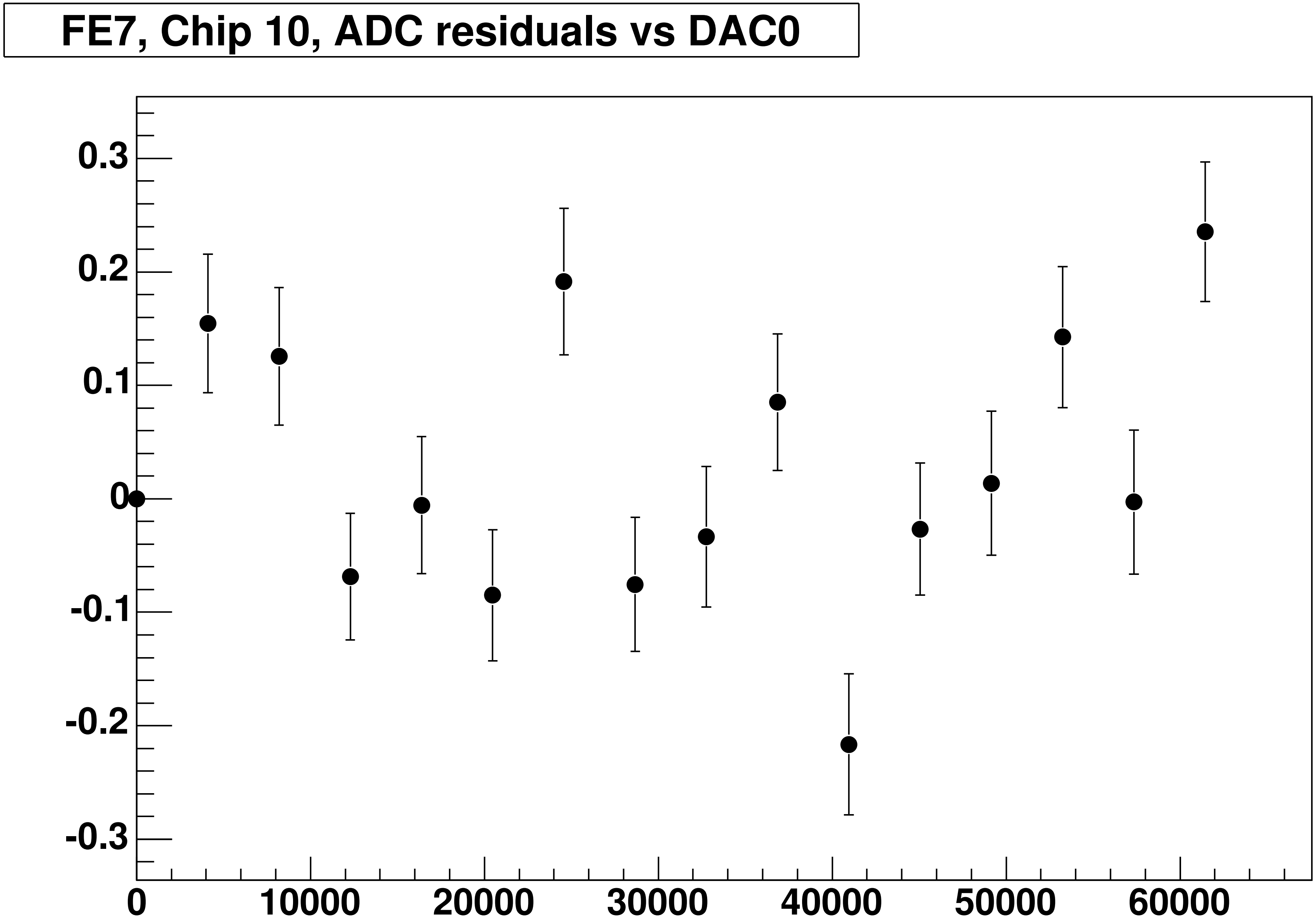

FE7, Chip 9, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000

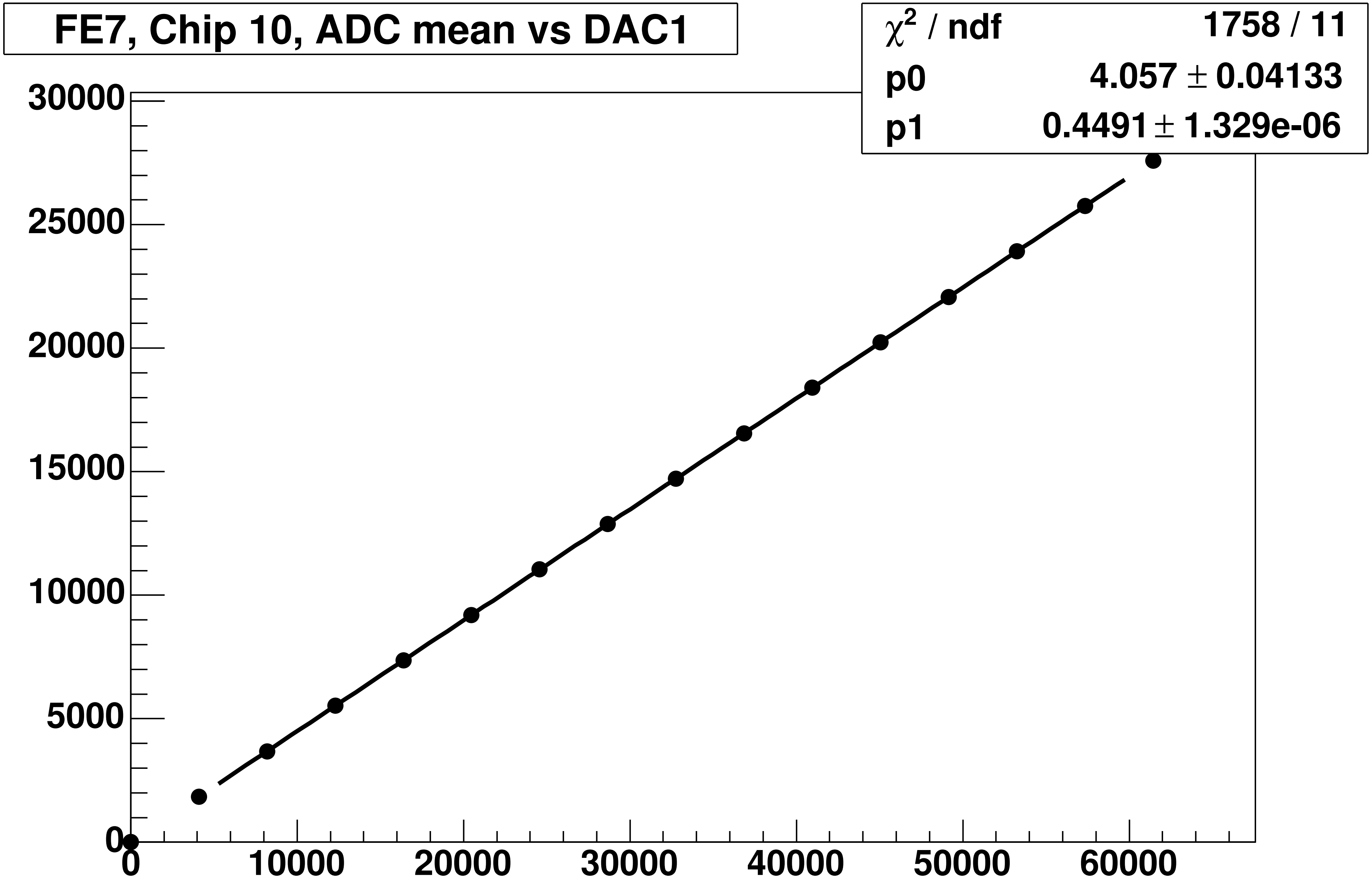

FE7, Chip 9, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000

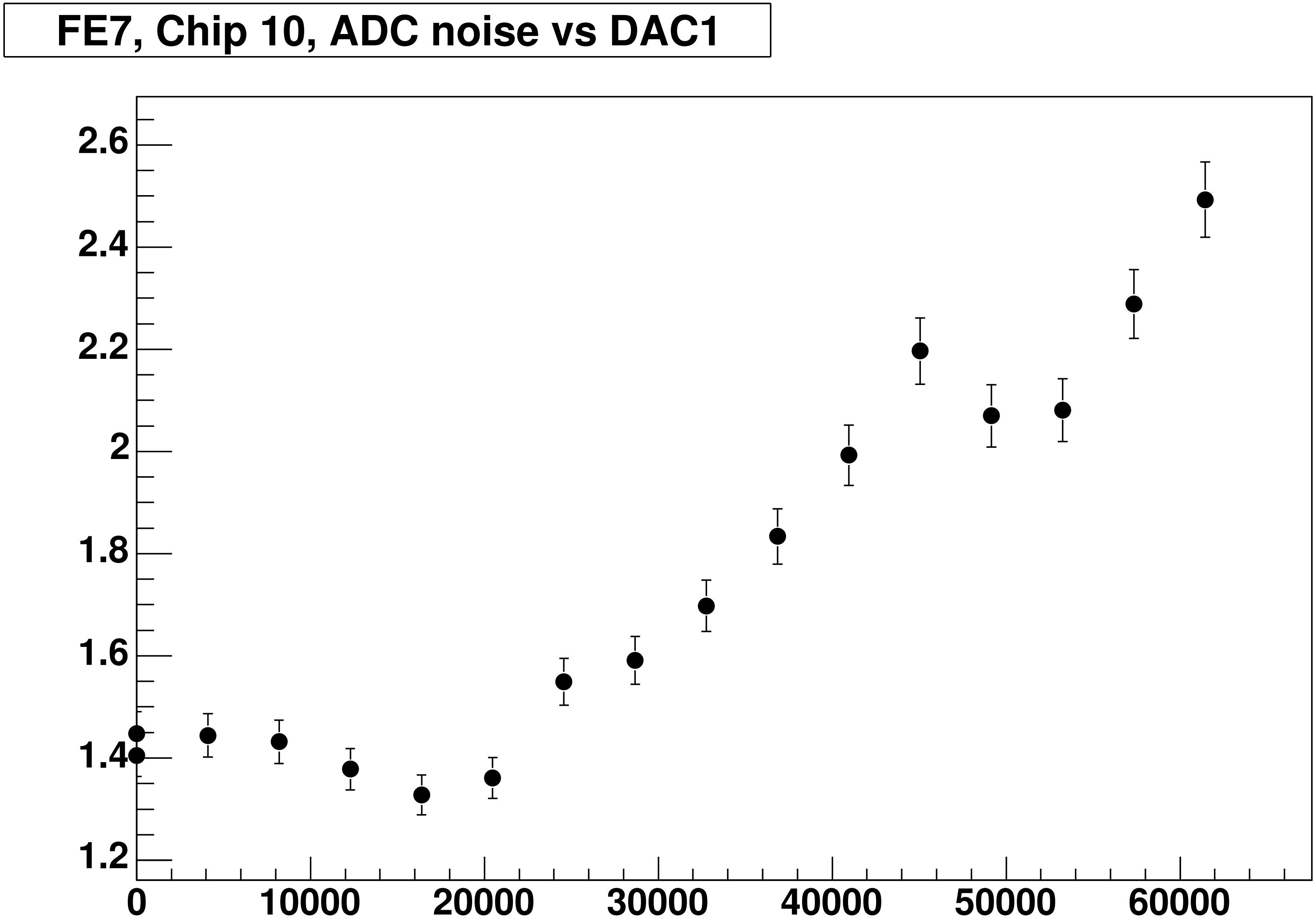


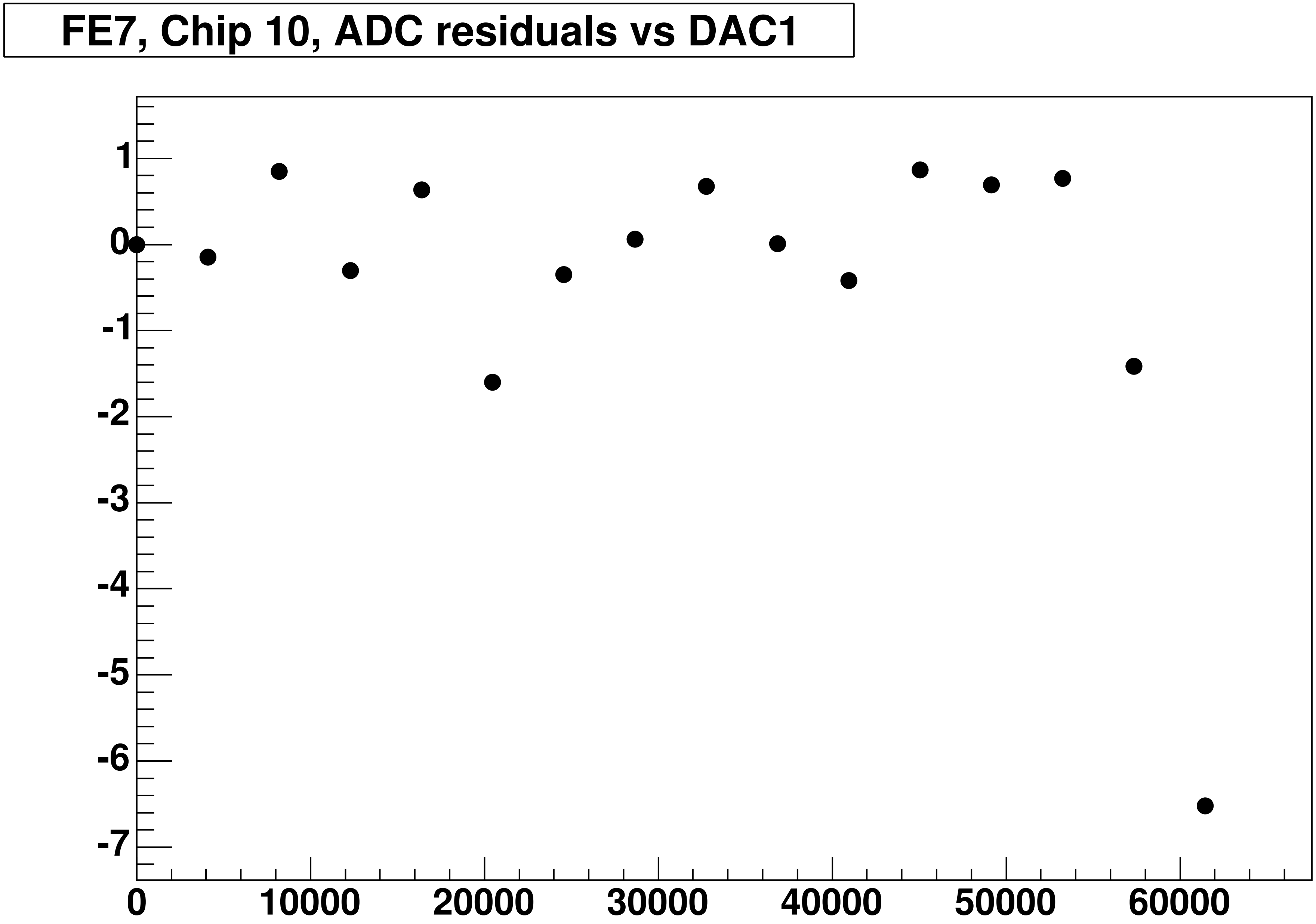
FE7, Chip 10, ADC mean vs DAC0
χ^2 / ndf 38.2 / 11
p0 4.799 ± 0.03911
p1 -3.076e-06 ± 1.099e-06
5
4.9
4.8
4.7
4.6
4.5
4.4
0
10000
20000
30000
40000
50000
60000

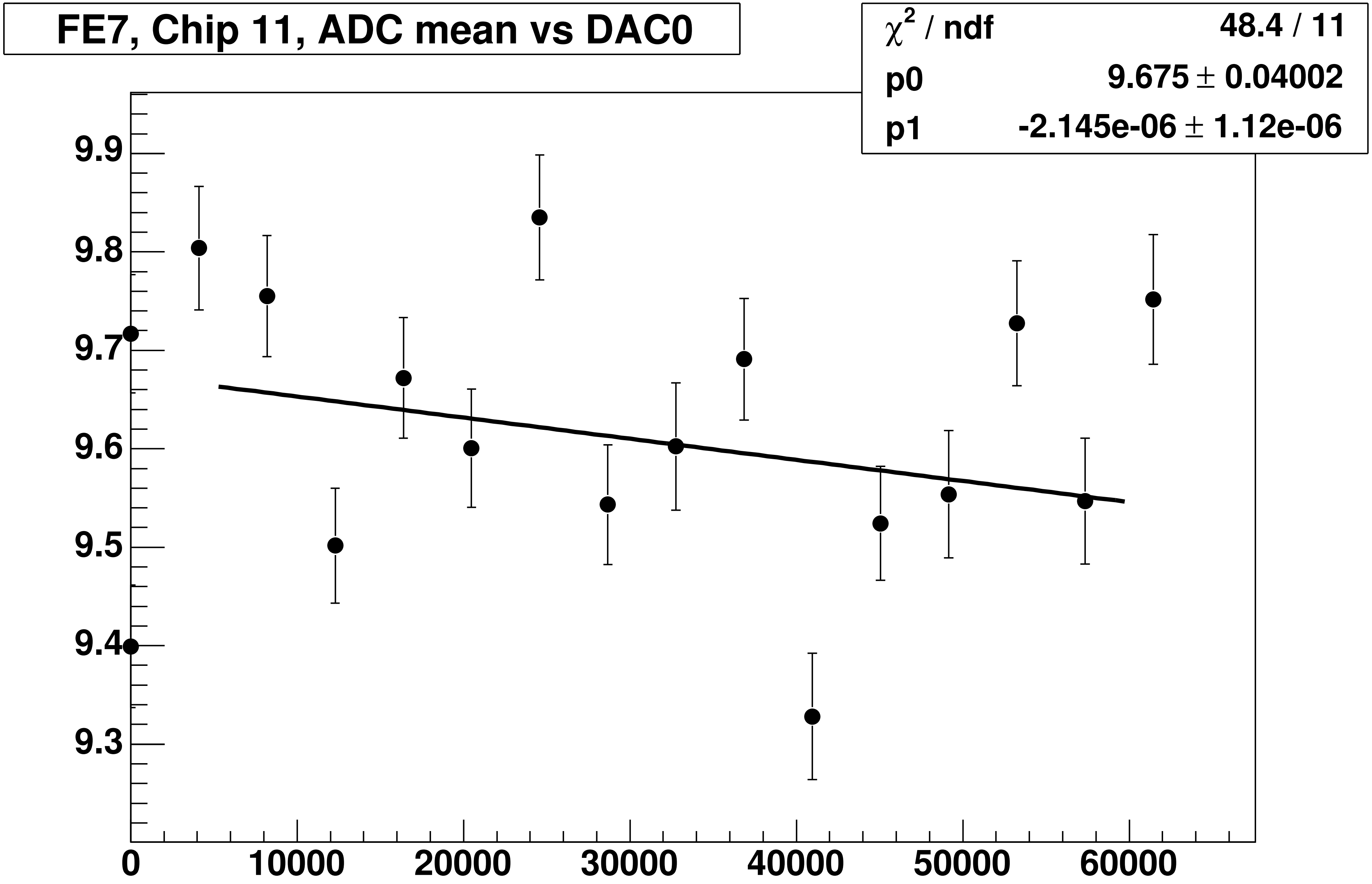

FE7, Chip 10, ADC noise vs DAC0
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000


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

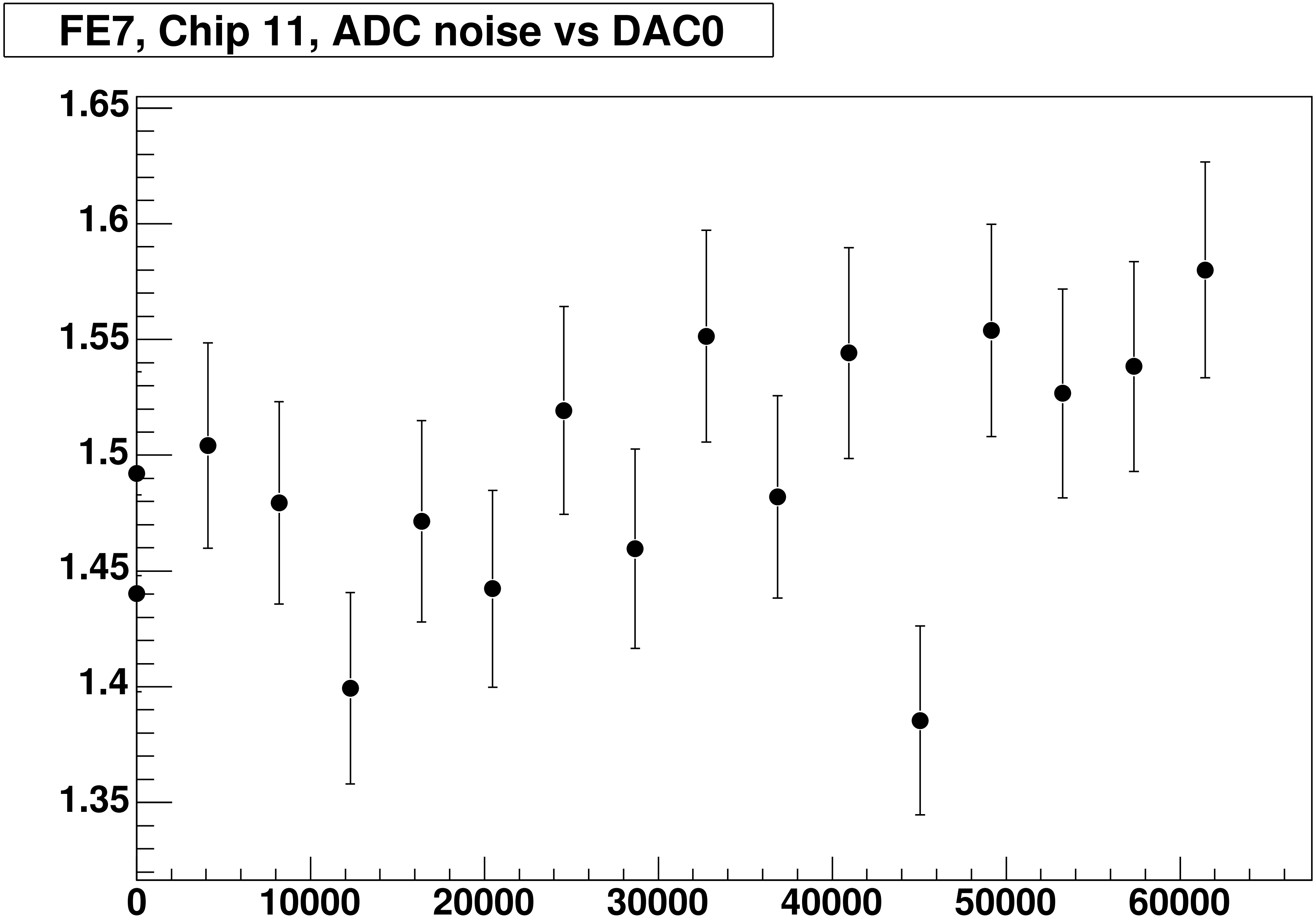

FE7, Chip 10, ADC mean vs DAC1
χ² / ndf 1758 / 11
p0 4.057 ± 0.04133
p1 0.4491 ± 1.329e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

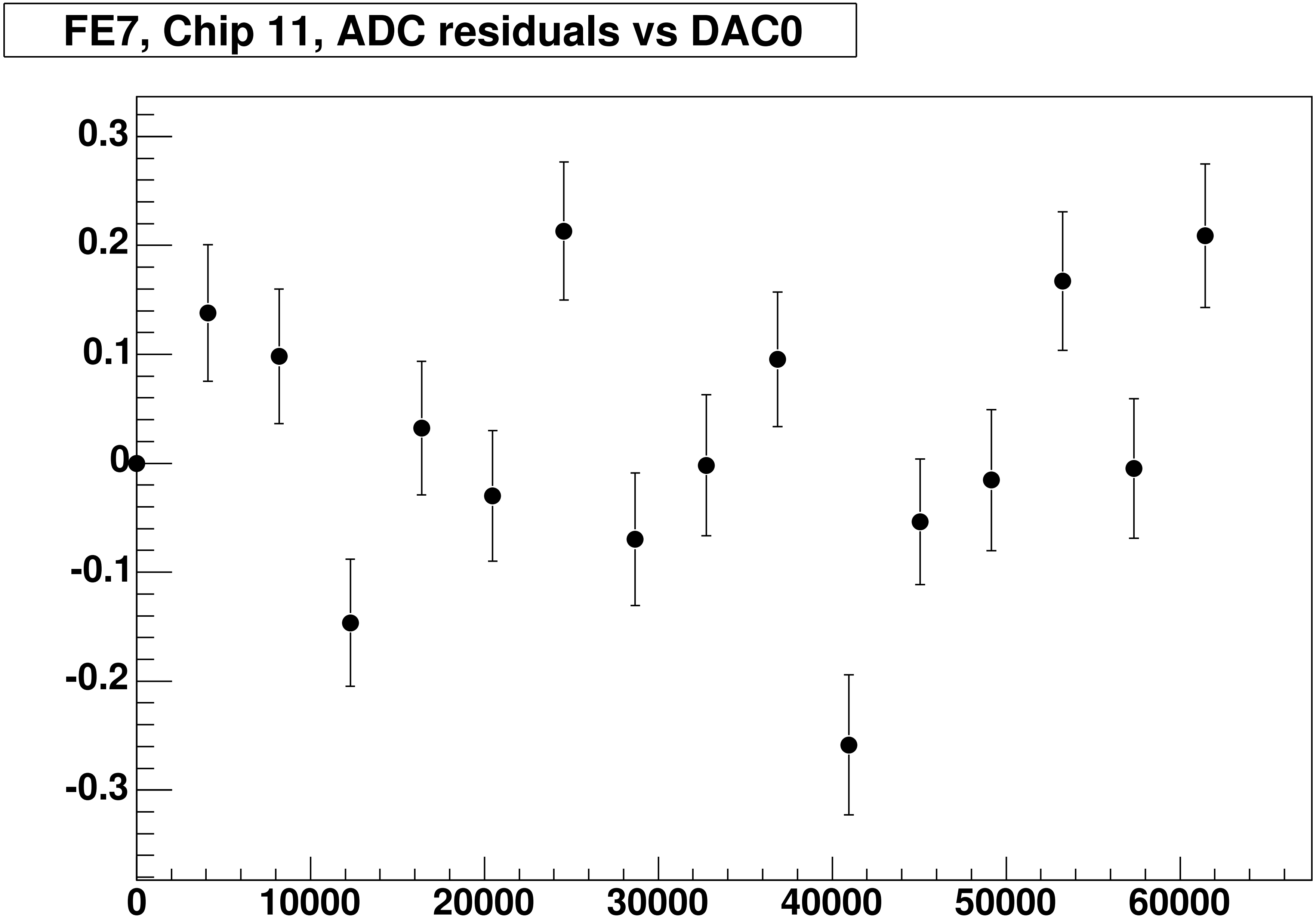

FE7, Chip 10, ADC noise vs DAC1
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000

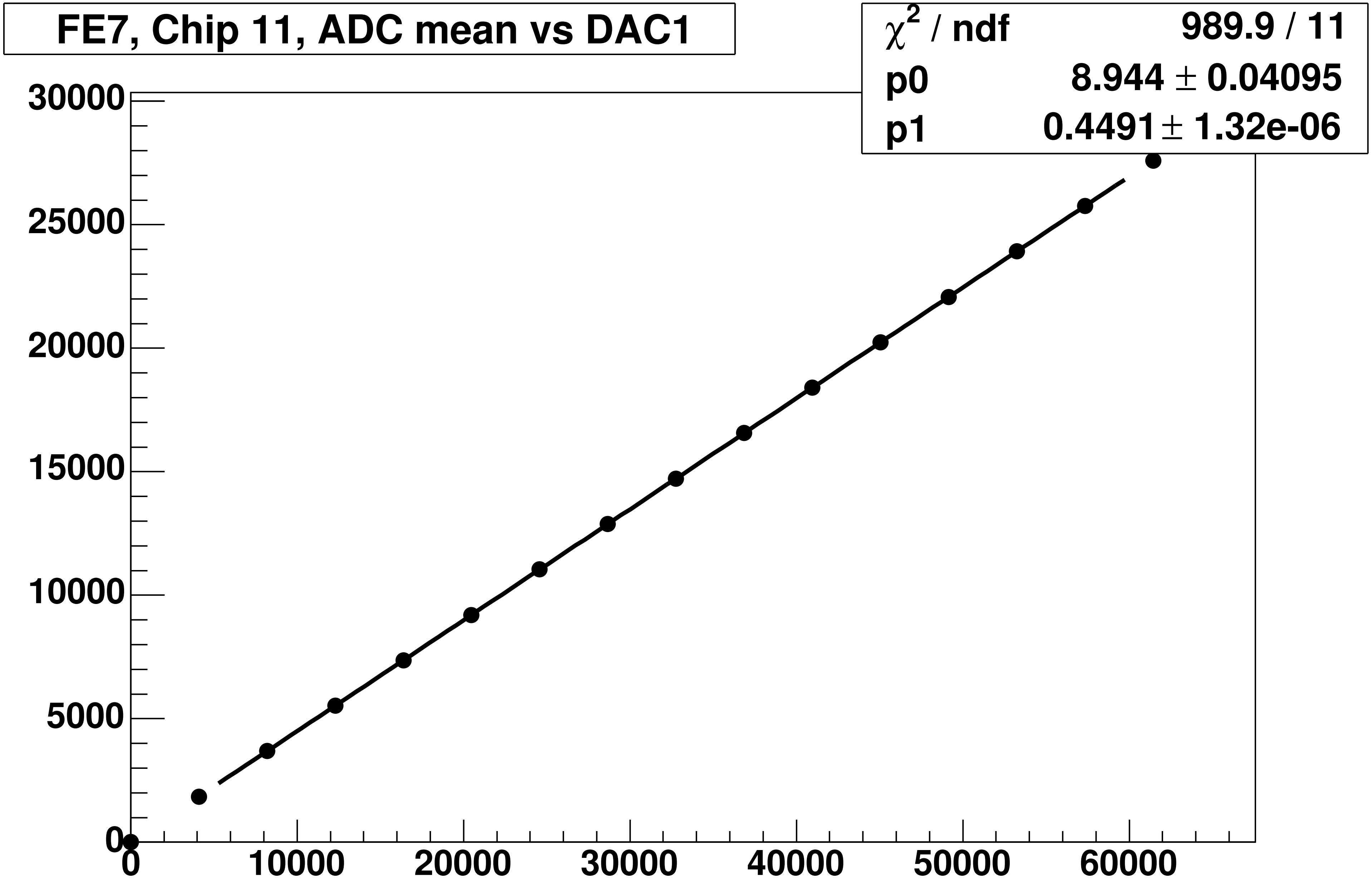

FE7, Chip 10, ADC residuals vs DAC1
1
0
-1
-2
-3
-4
-5
-6
-7
0
10000
20000
30000
40000
50000
60000



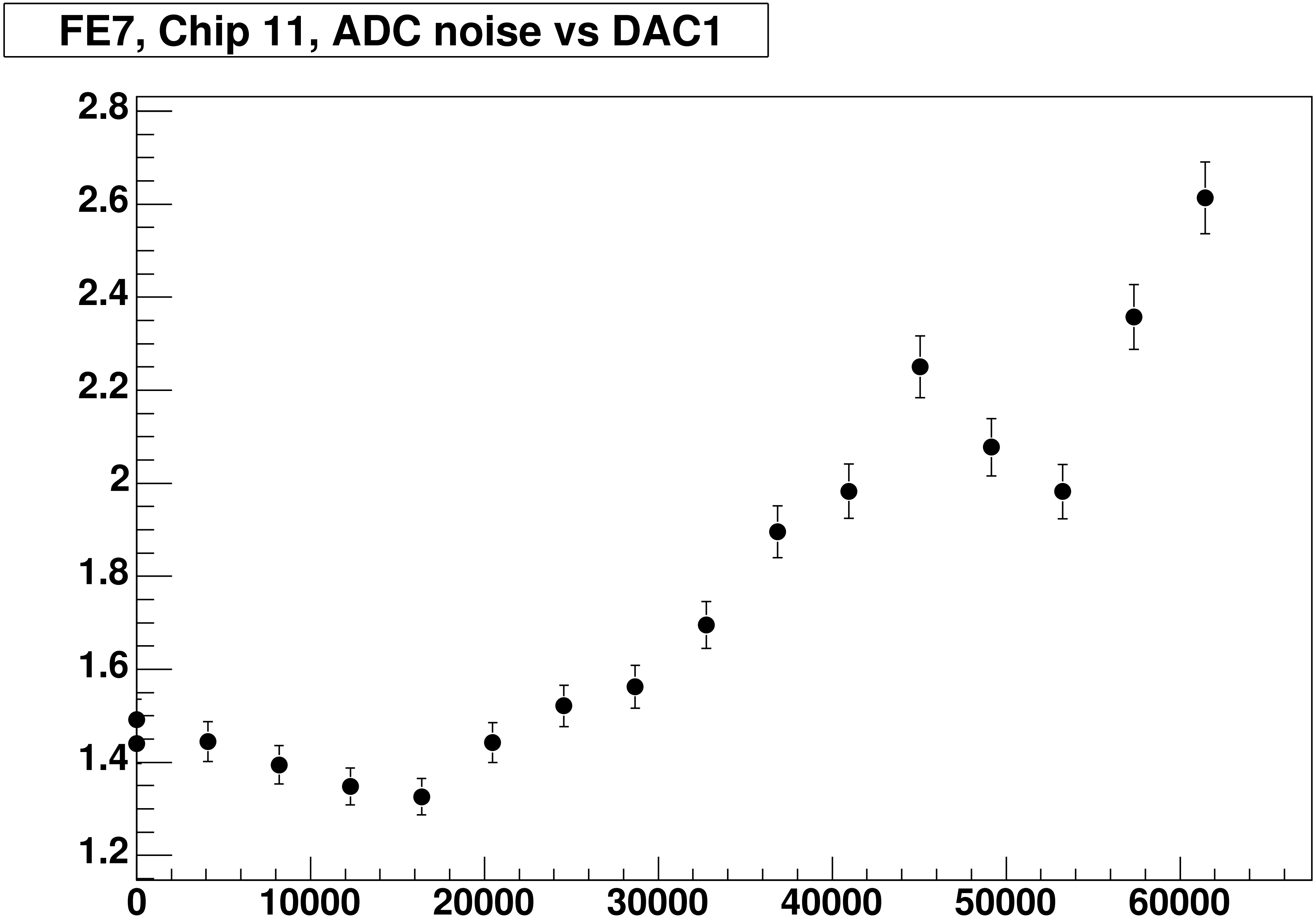
FE7, Chip 11, ADC mean vs DAC0
χ^2 / ndf 48.4 / 11
p0 9.675 ± 0.04002
p1 -2.145e-06 ± 1.12e-06
9.9
9.8
9.7
9.6
9.5
9.4
9.3
0
10000
20000
30000
40000
50000
60000

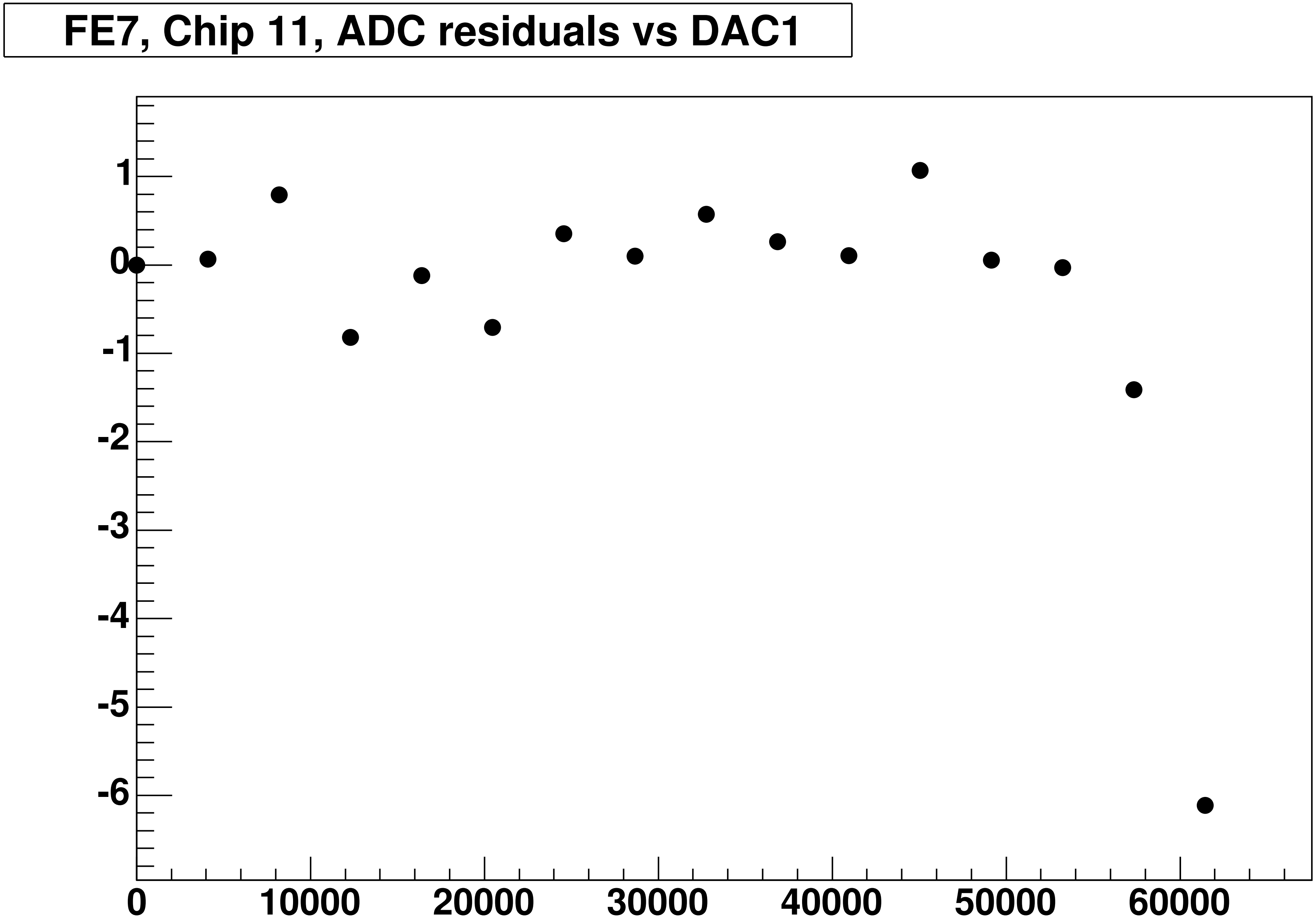

FE7, Chip 11, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000


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

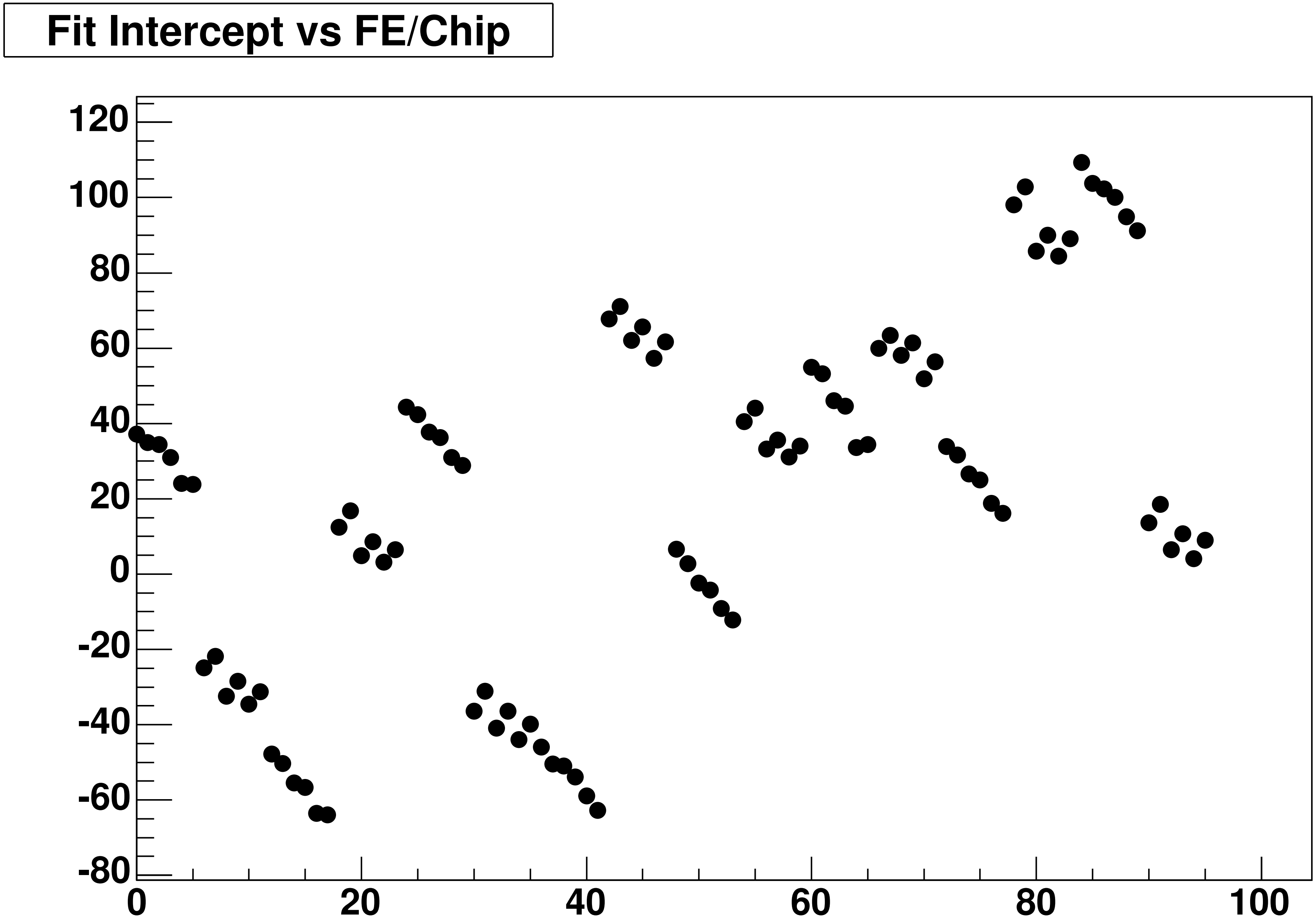


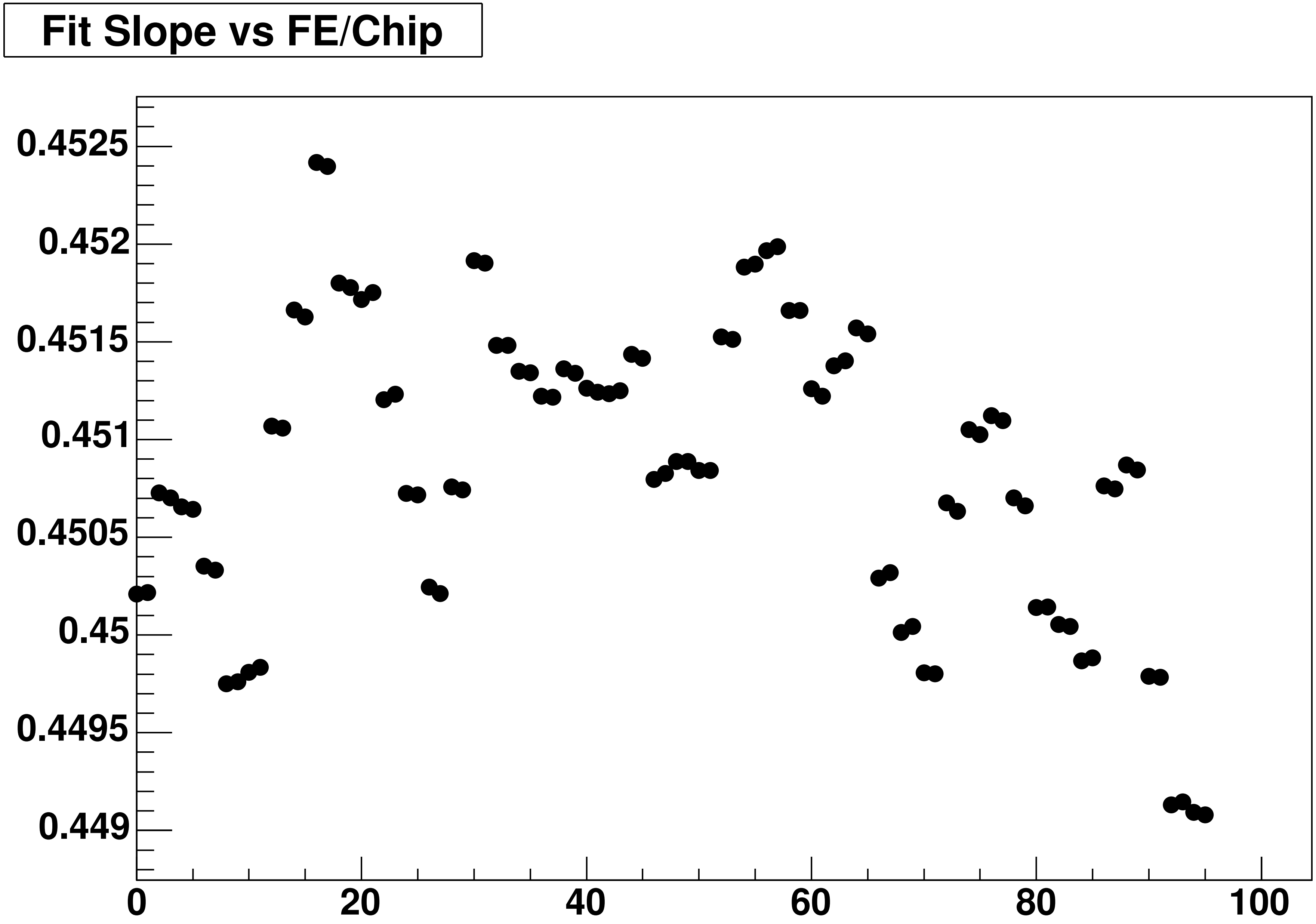
FE7, Chip 11, ADC mean vs DAC1
χ^2 / ndf 989.9 / 11
p0 8.944 ± 0.04095
p1 0.4491 ± 1.32e-06
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 11, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000



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


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



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