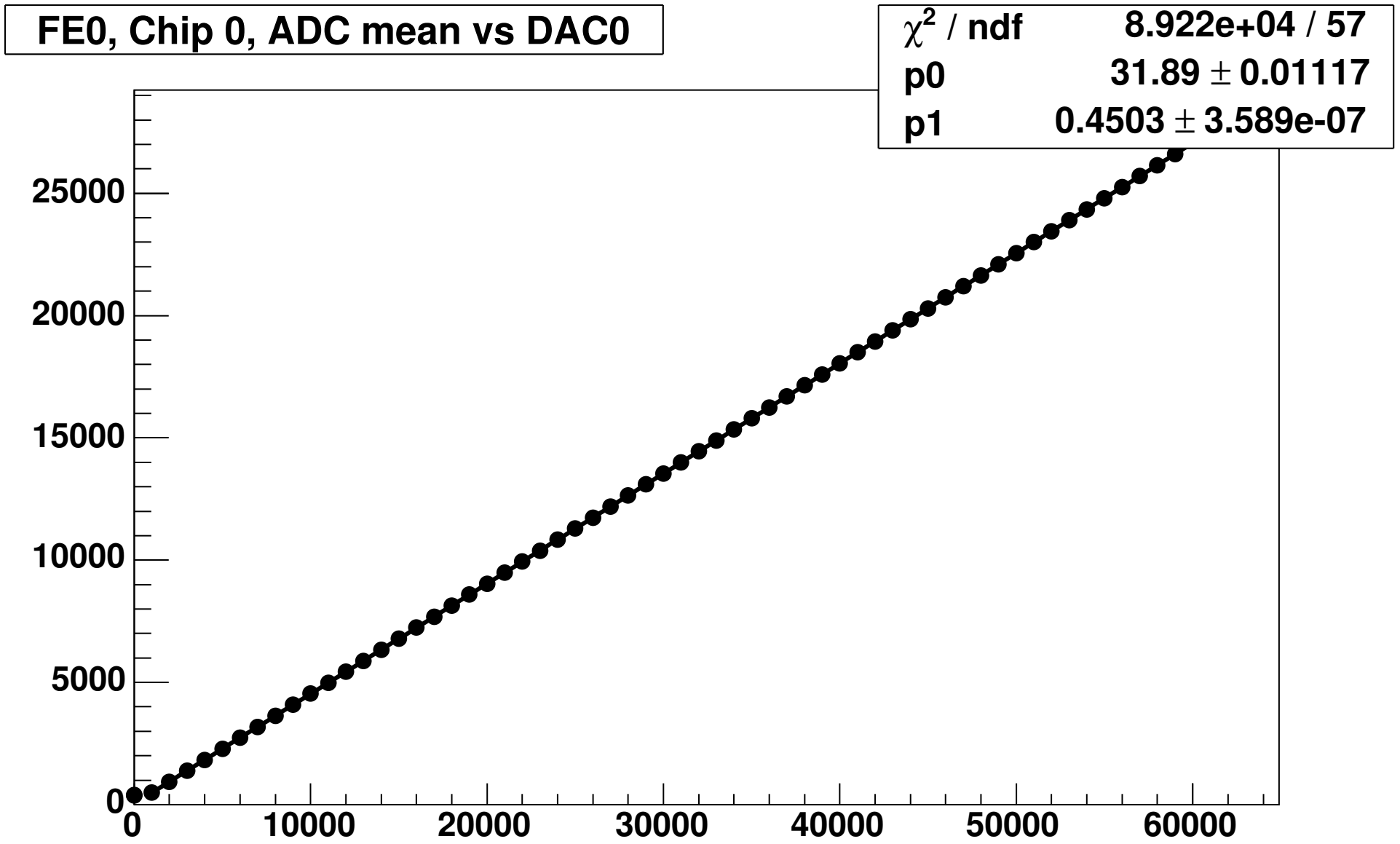
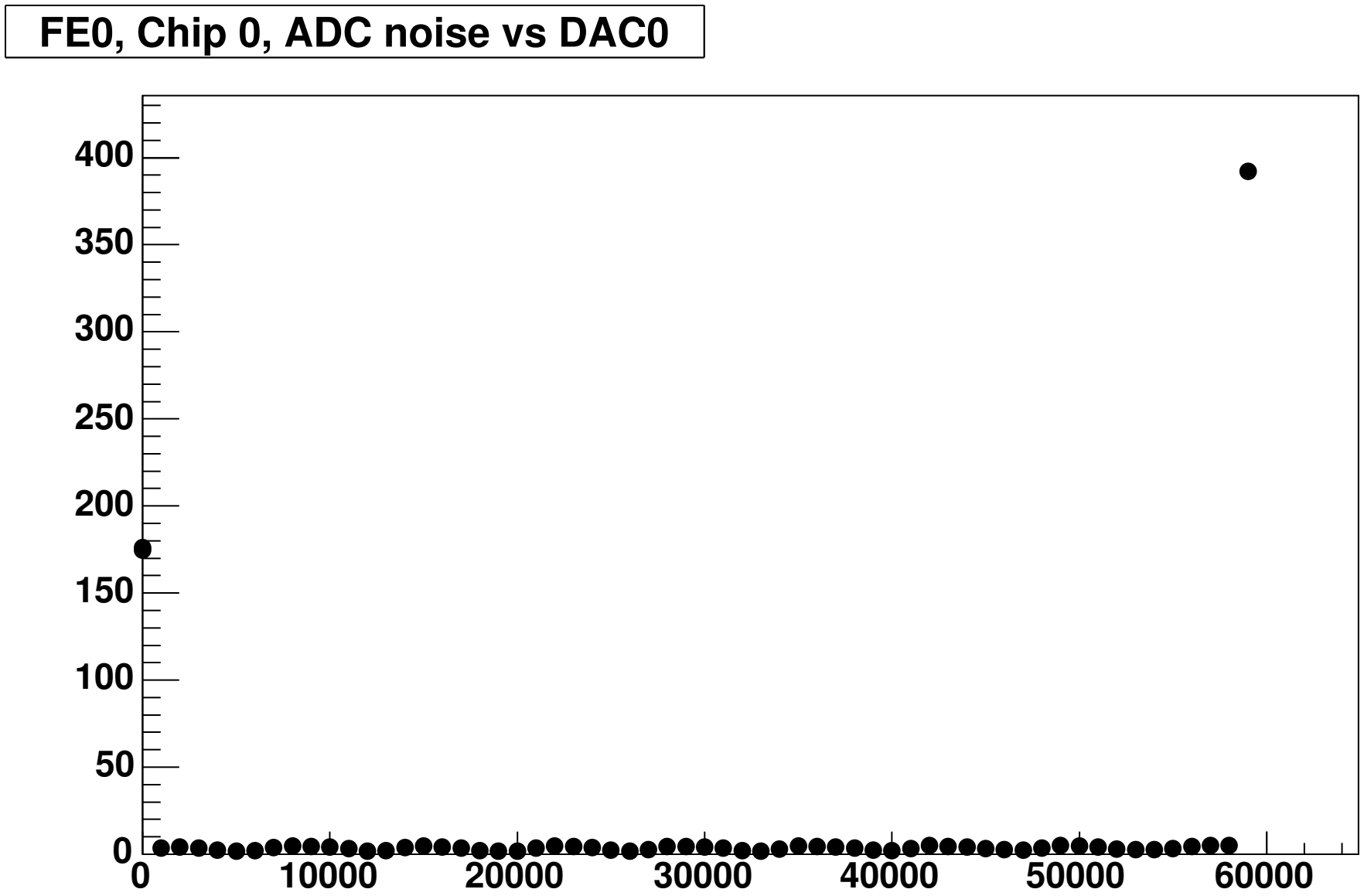
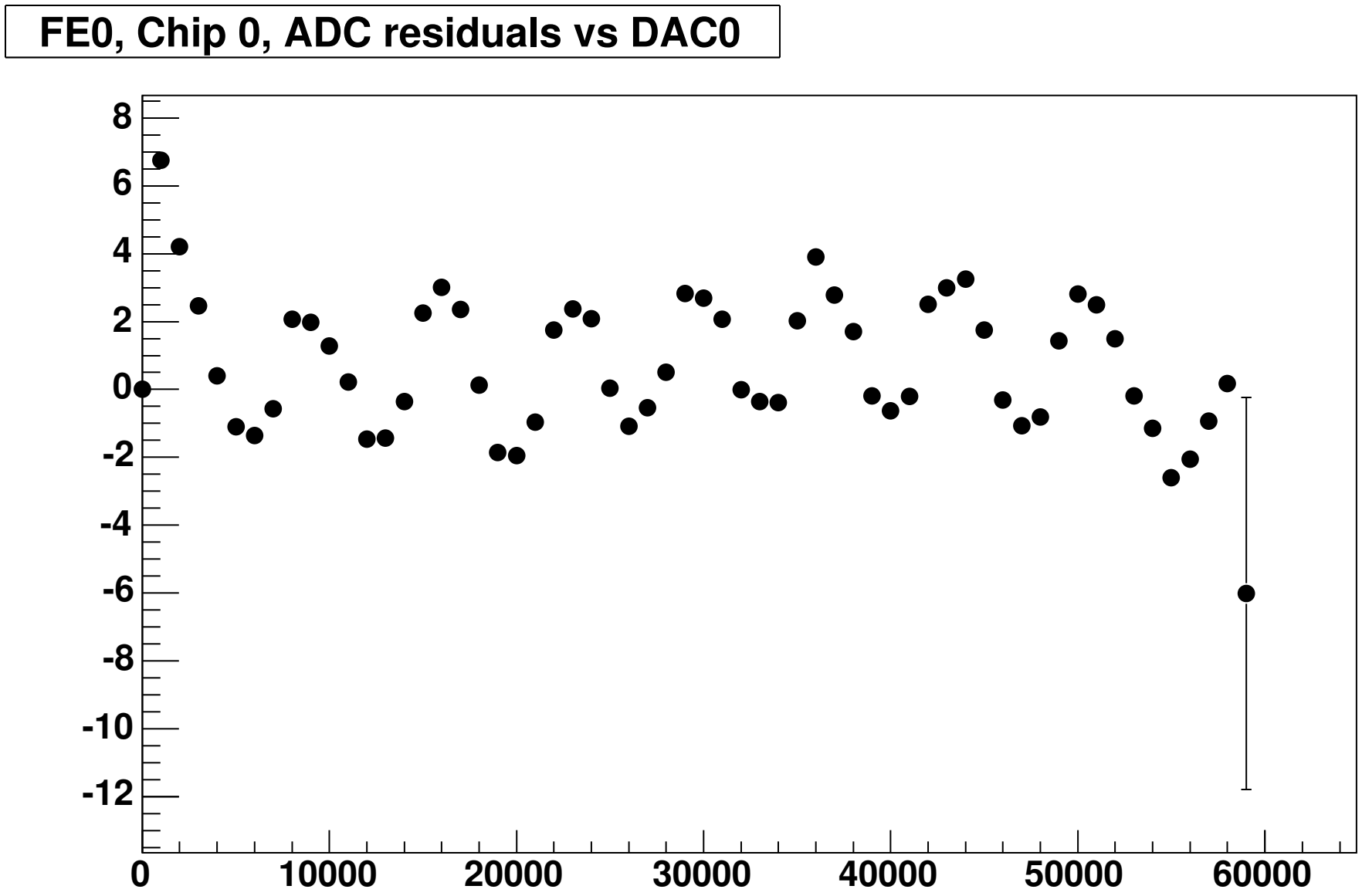
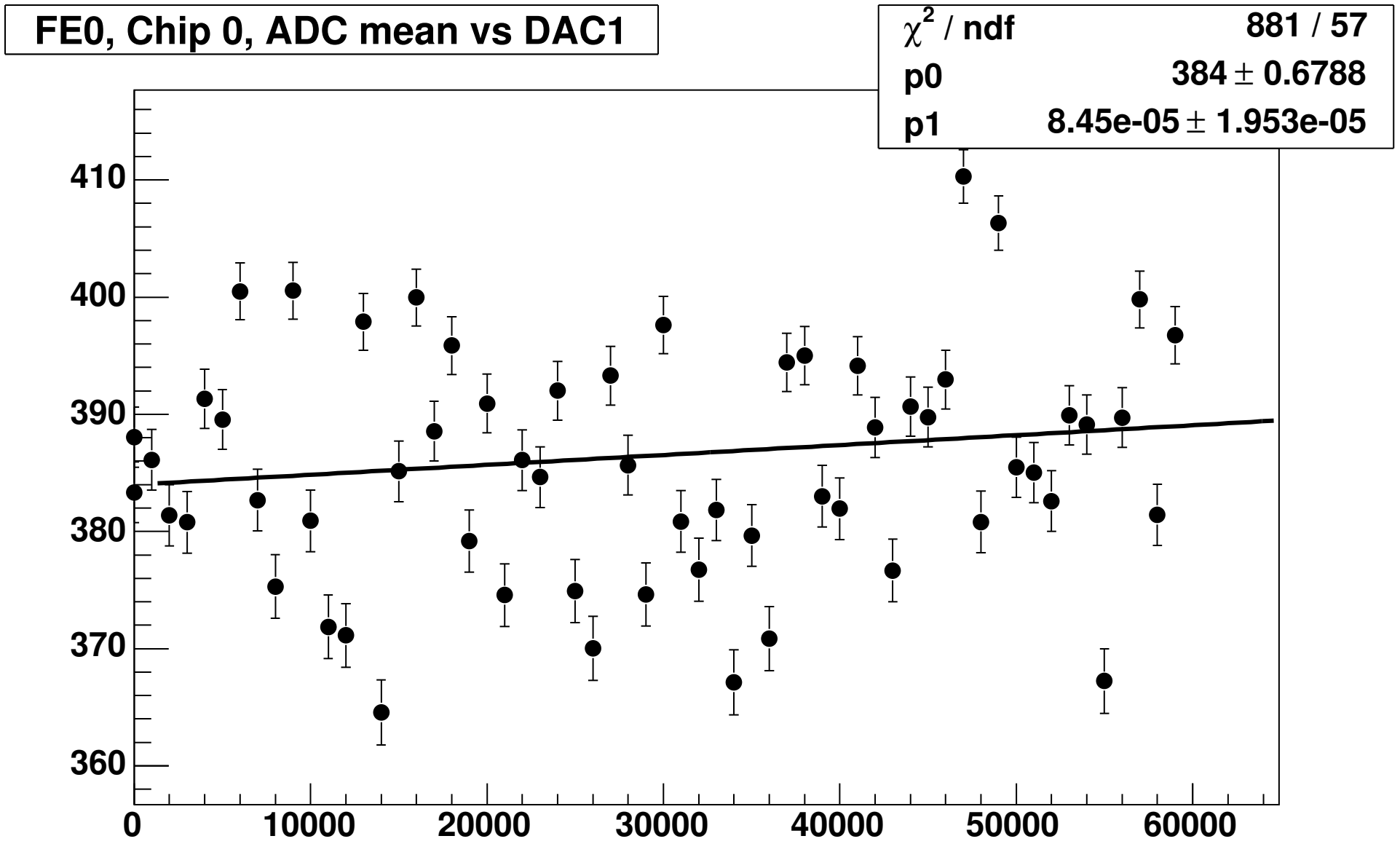
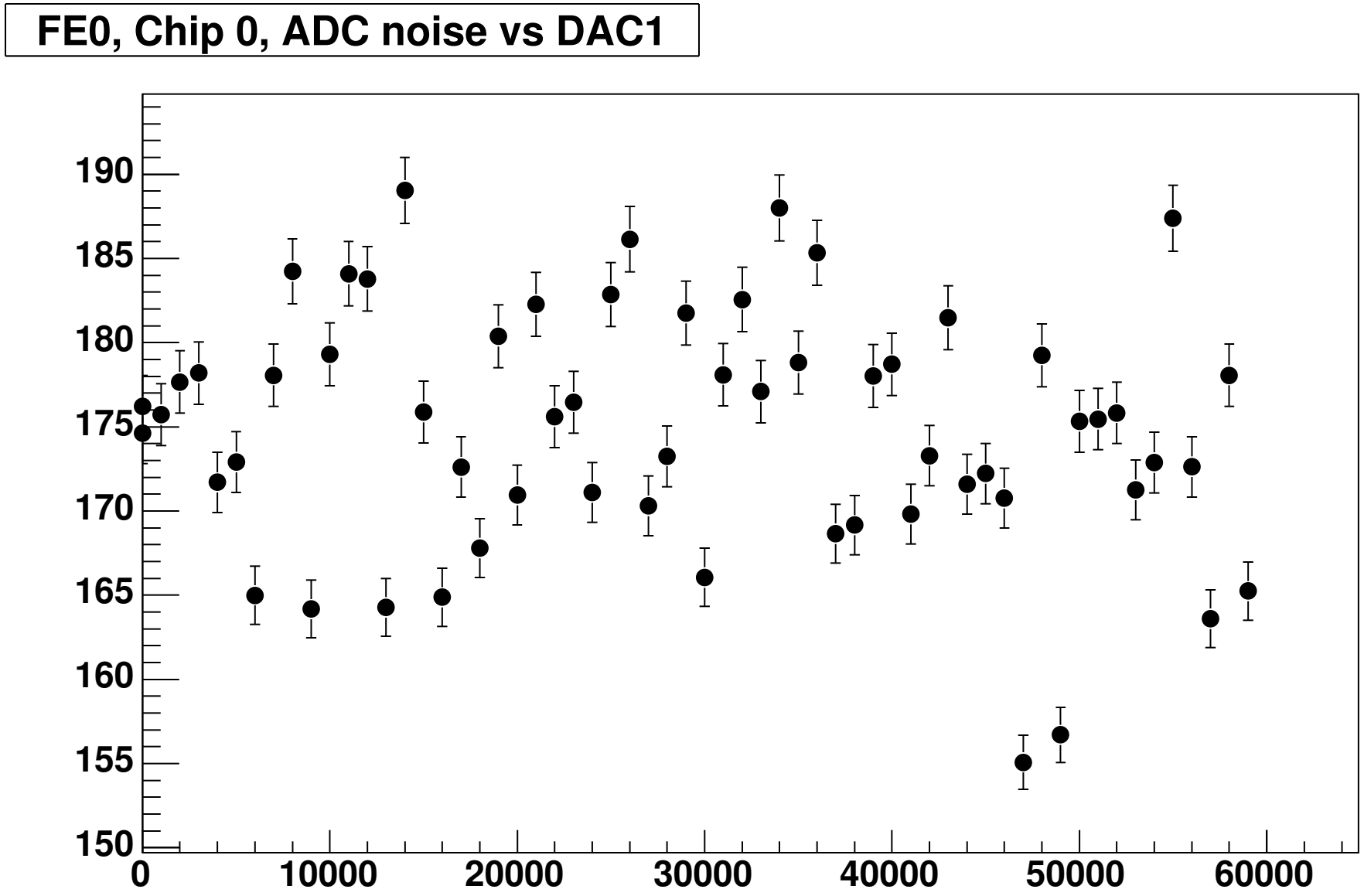

FE0, Chip 0, ADC mean vs DAC0
χ² / ndf 8.922e+04 / 57
p0 31.89 ± 0.01117
p1 0.4503 ± 3.589e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

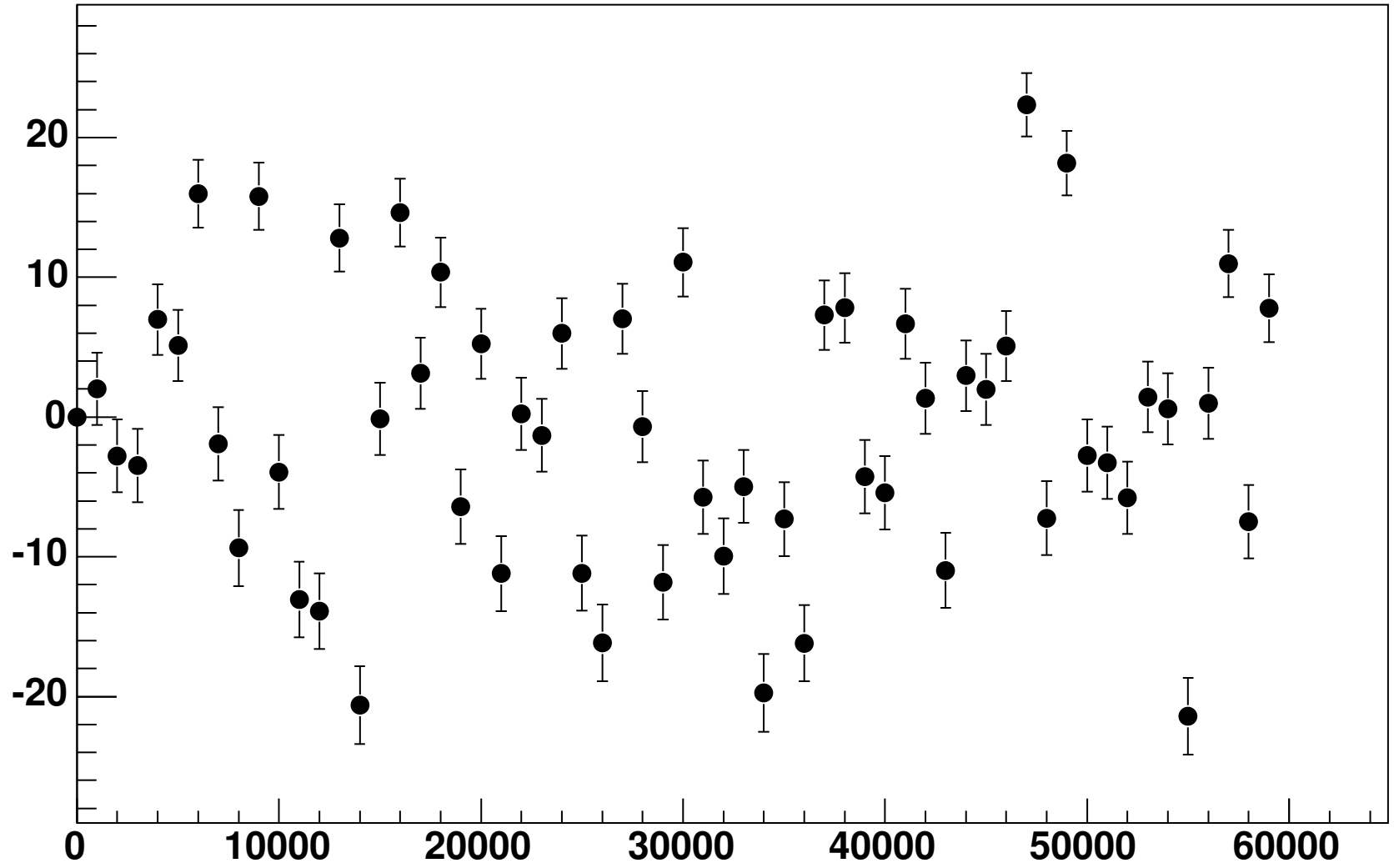

FE0, Chip 0, ADC noise vs DAC0
400
350
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000

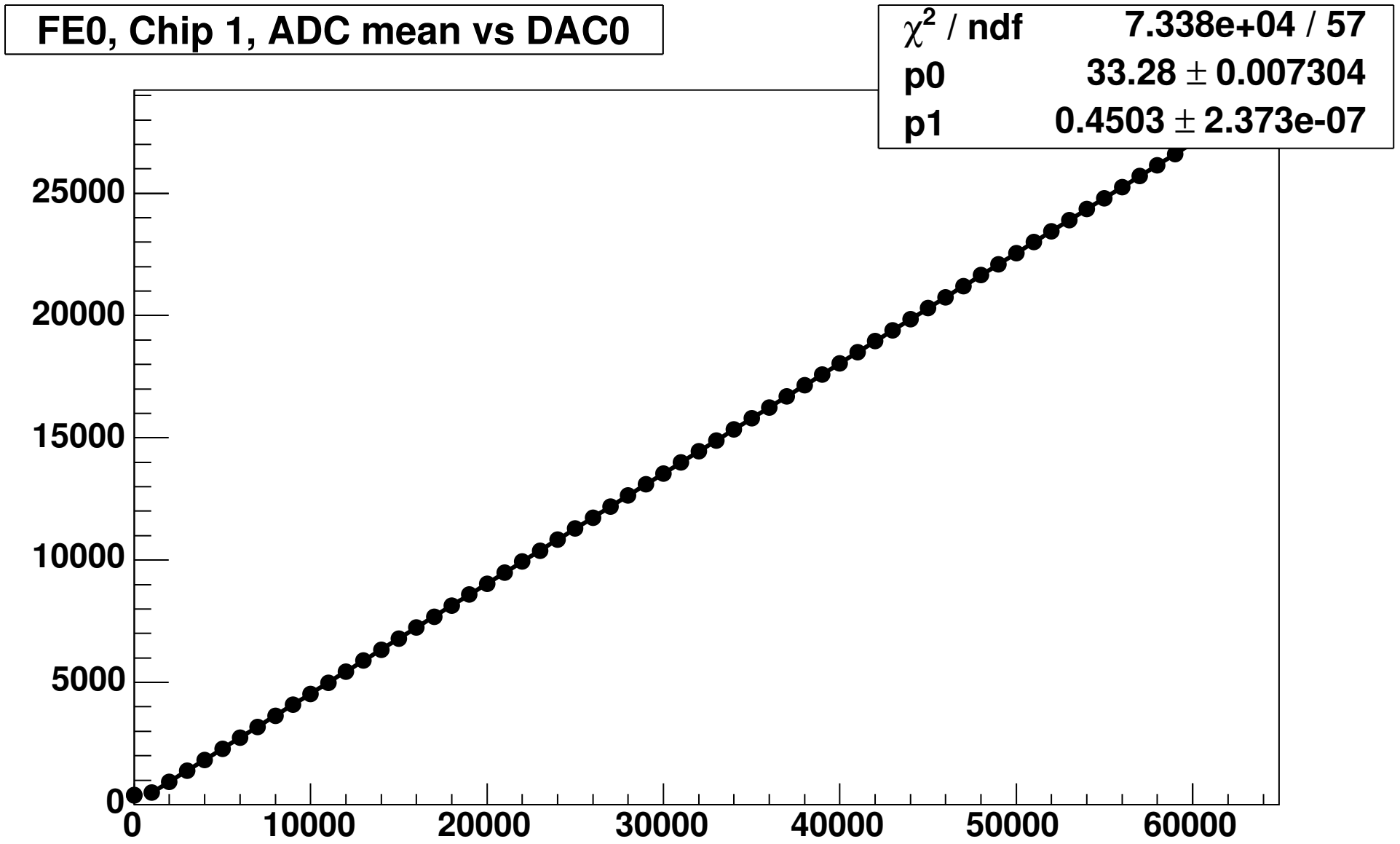

FE0, Chip 0, ADC residuals vs DAC0
8
6
4
2
0
-2
-4
-6
-8
-10
-12
0
10000
20000
30000
40000
50000
60000

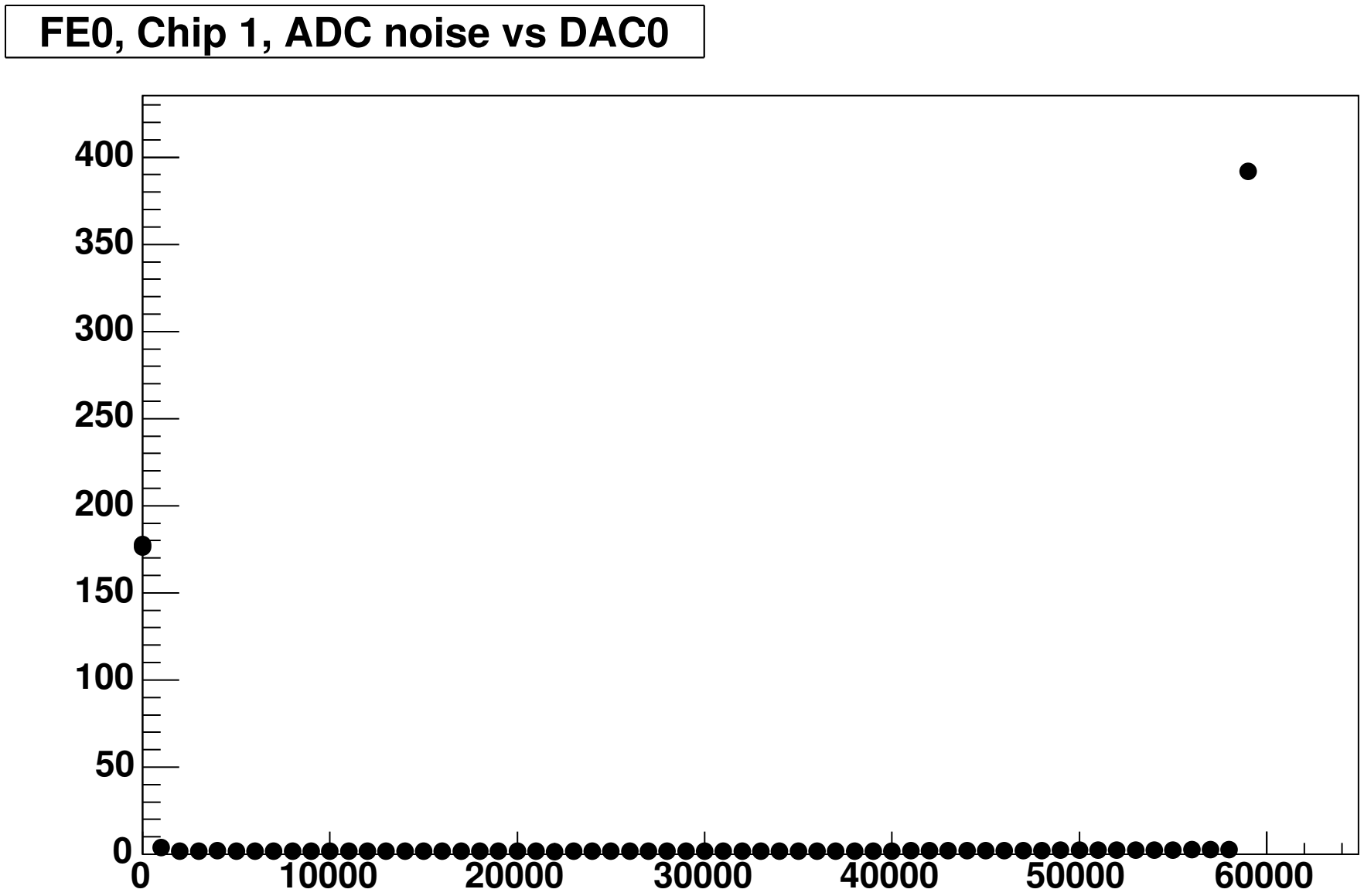

FE0, Chip 0, ADC mean vs DAC1
χ² / ndf 881 / 57
p0 384 ± 0.6788
p1 8.45e-05 ± 1.953e-05
410
400
390
380
370
360
0
10000
20000
30000
40000
50000
60000

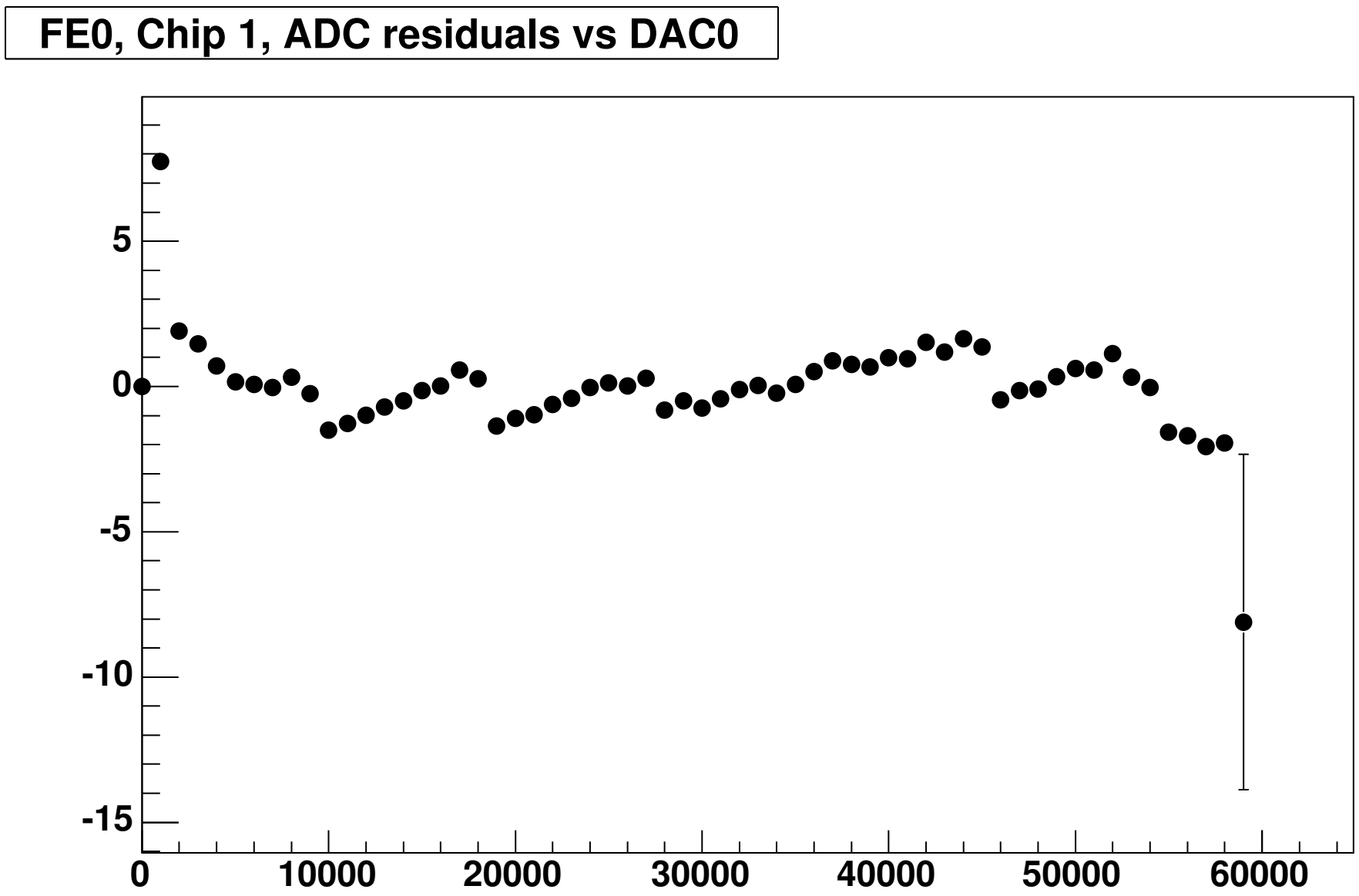

FE0, Chip 0, ADC noise vs DAC1
190
185
180
175
170
165
160
155
150
0
10000
20000
30000
40000
50000
60000

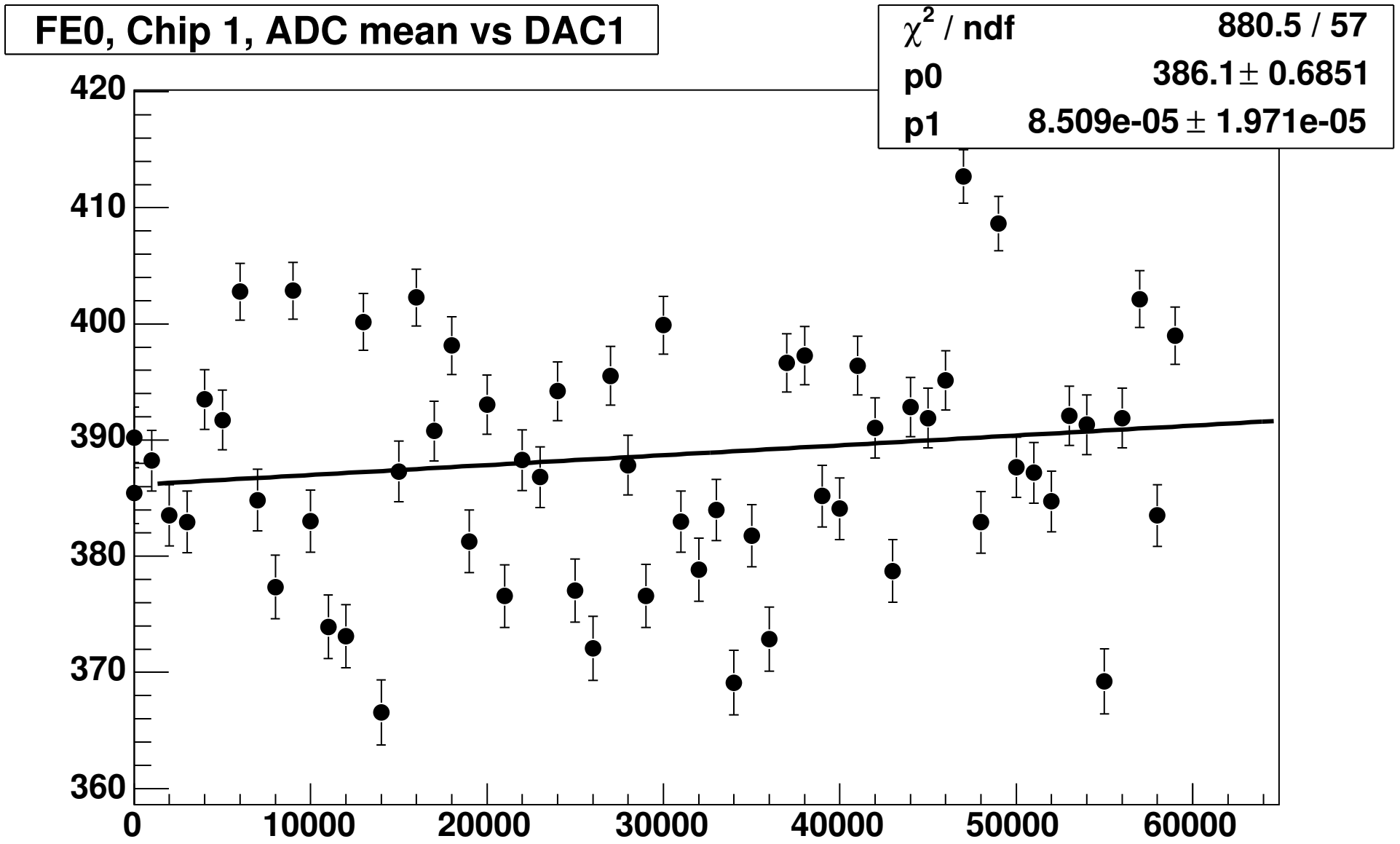
FE0, Chip 0, ADC residuals vs DAC1

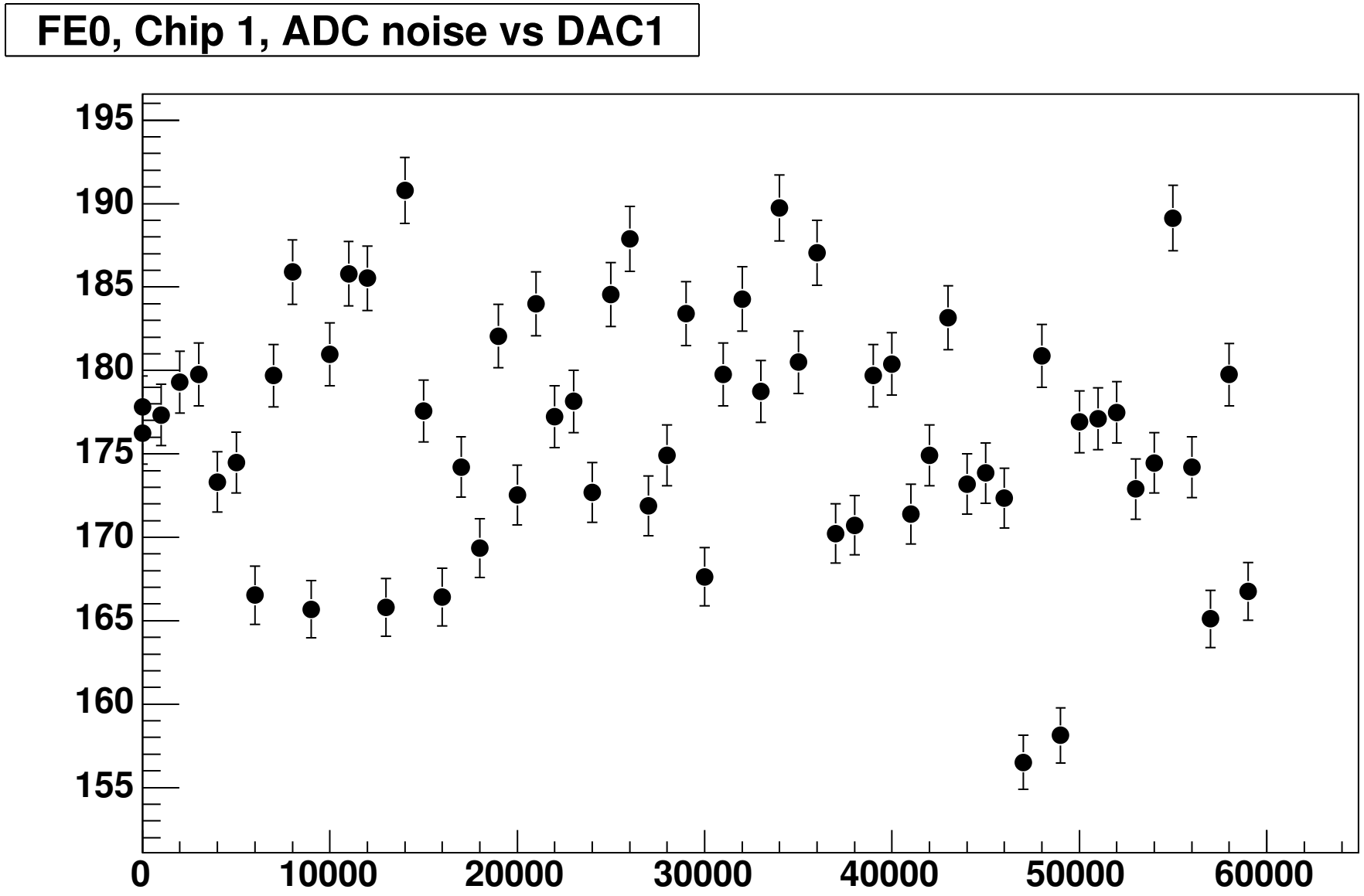


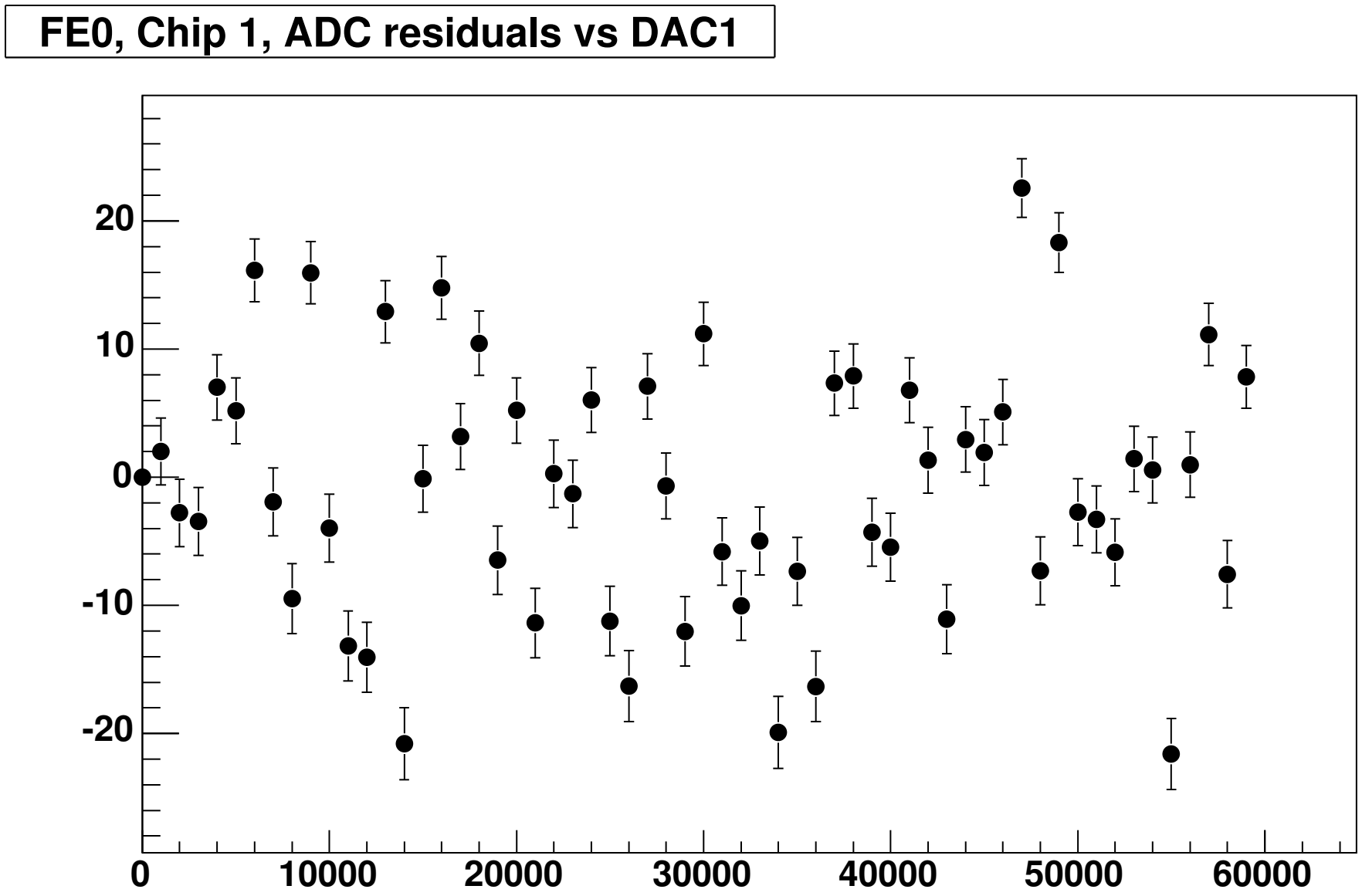

FE0, Chip 1, ADC mean vs DAC0
χ² / ndf 7.338e+04 / 57
p0 33.28 ± 0.007304
p1 0.4503 ± 2.373e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

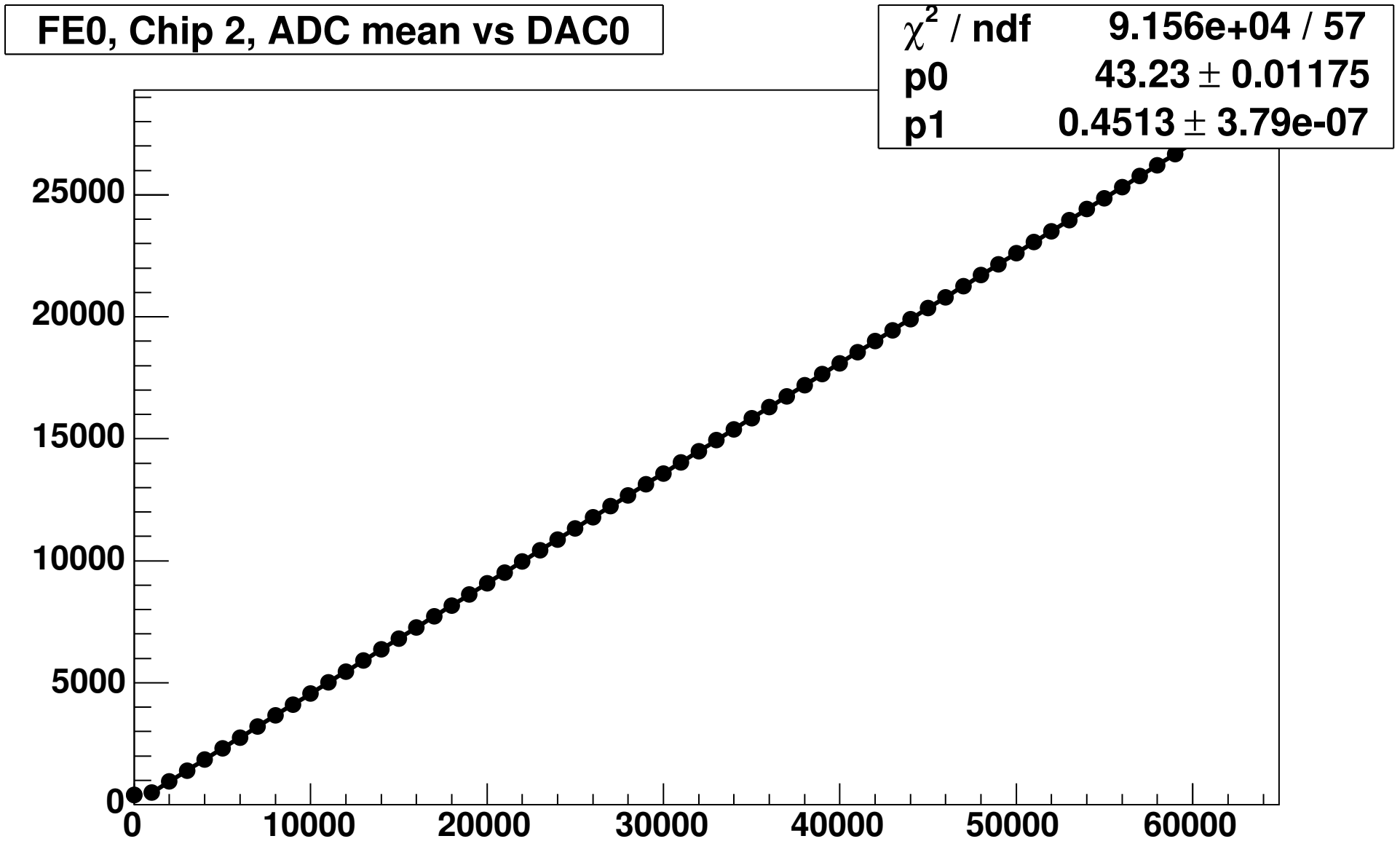

FE0, Chip 1, ADC noise vs DAC0
400
350
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000

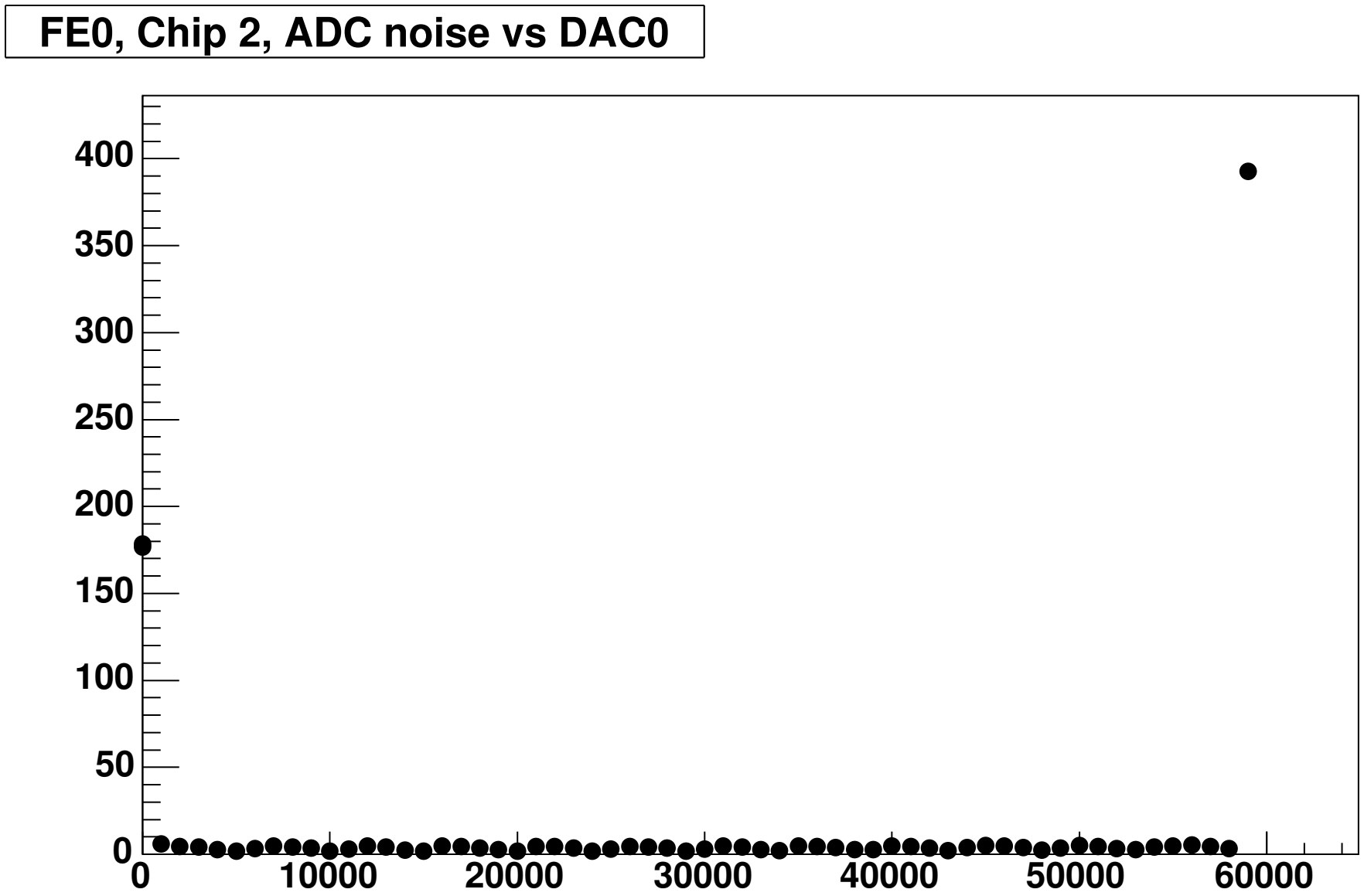

FE0, Chip 1, ADC residuals vs DAC0
5
0
-5
-10
-15
0
10000
20000
30000
40000
50000
60000

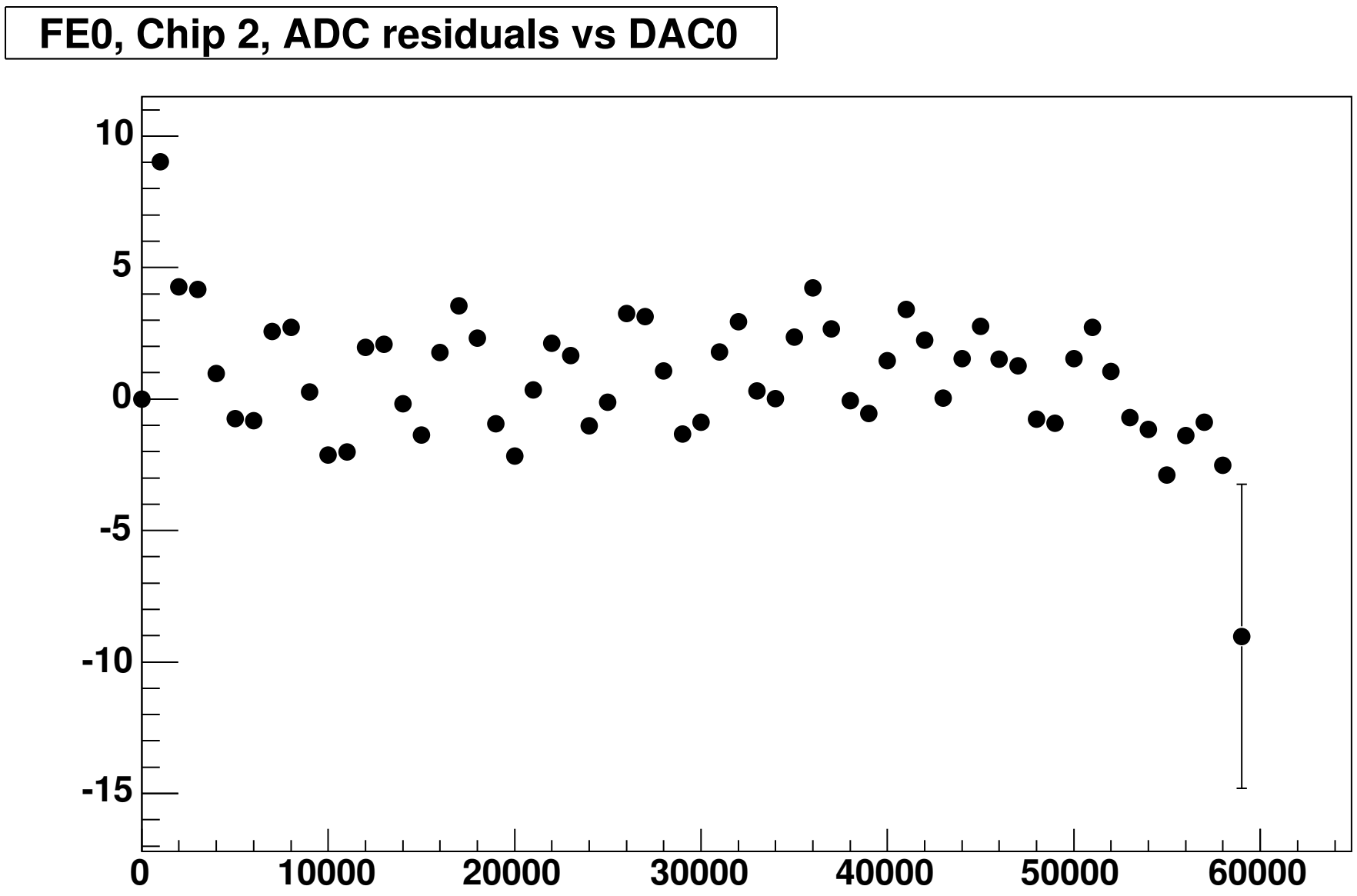

FE0, Chip 1, ADC mean vs DAC1
χ² / ndf 880.5 / 57
p0 386.1 ± 0.6851
p1 8.509e-05 ± 1.971e-05
420
410
400
390
380
370
360
0
10000
20000
30000
40000
50000
60000

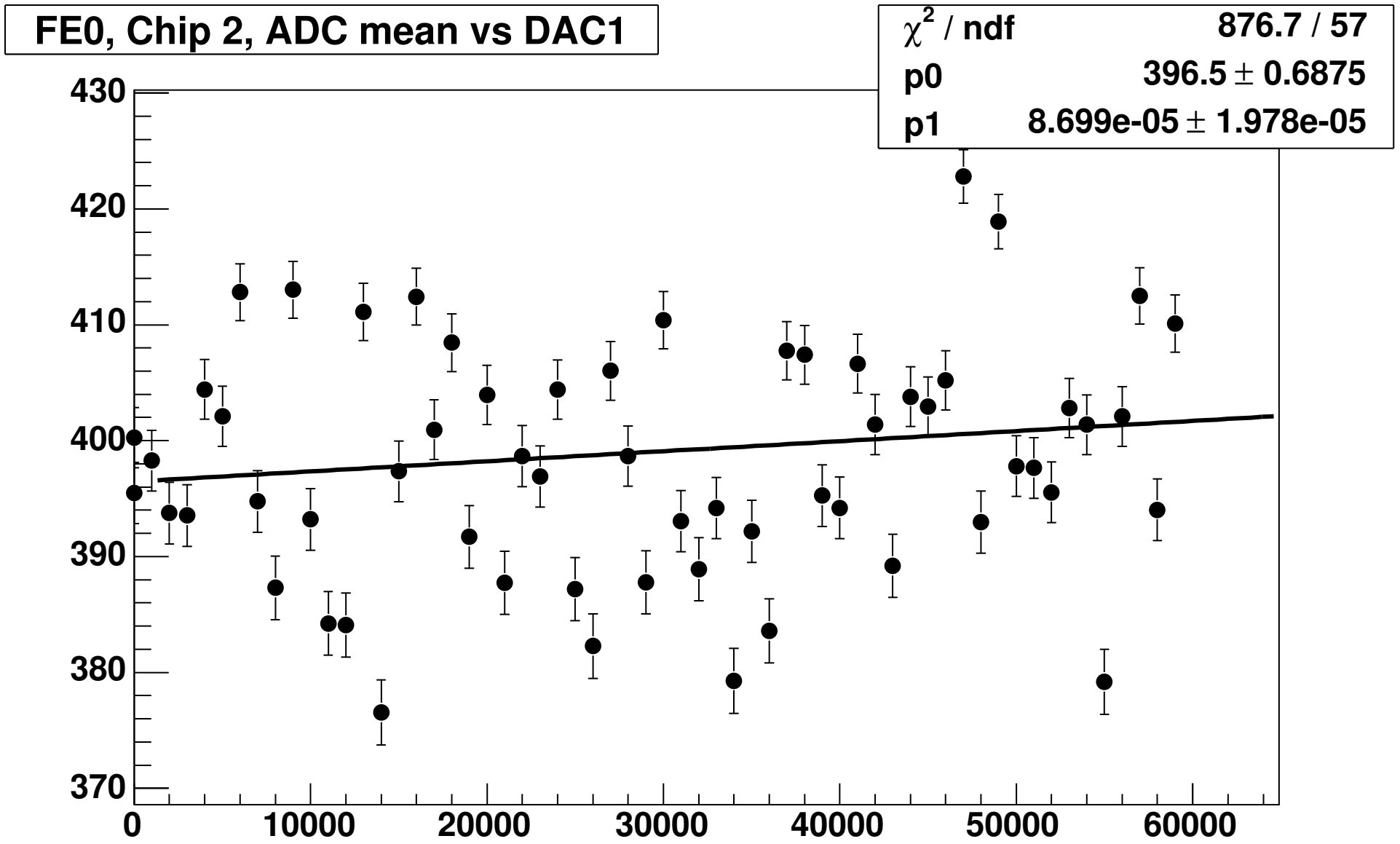

FE0, Chip 1, ADC noise vs DAC1
195
190
185
180
175
170
165
160
155
0
10000
20000
30000
40000
50000
60000

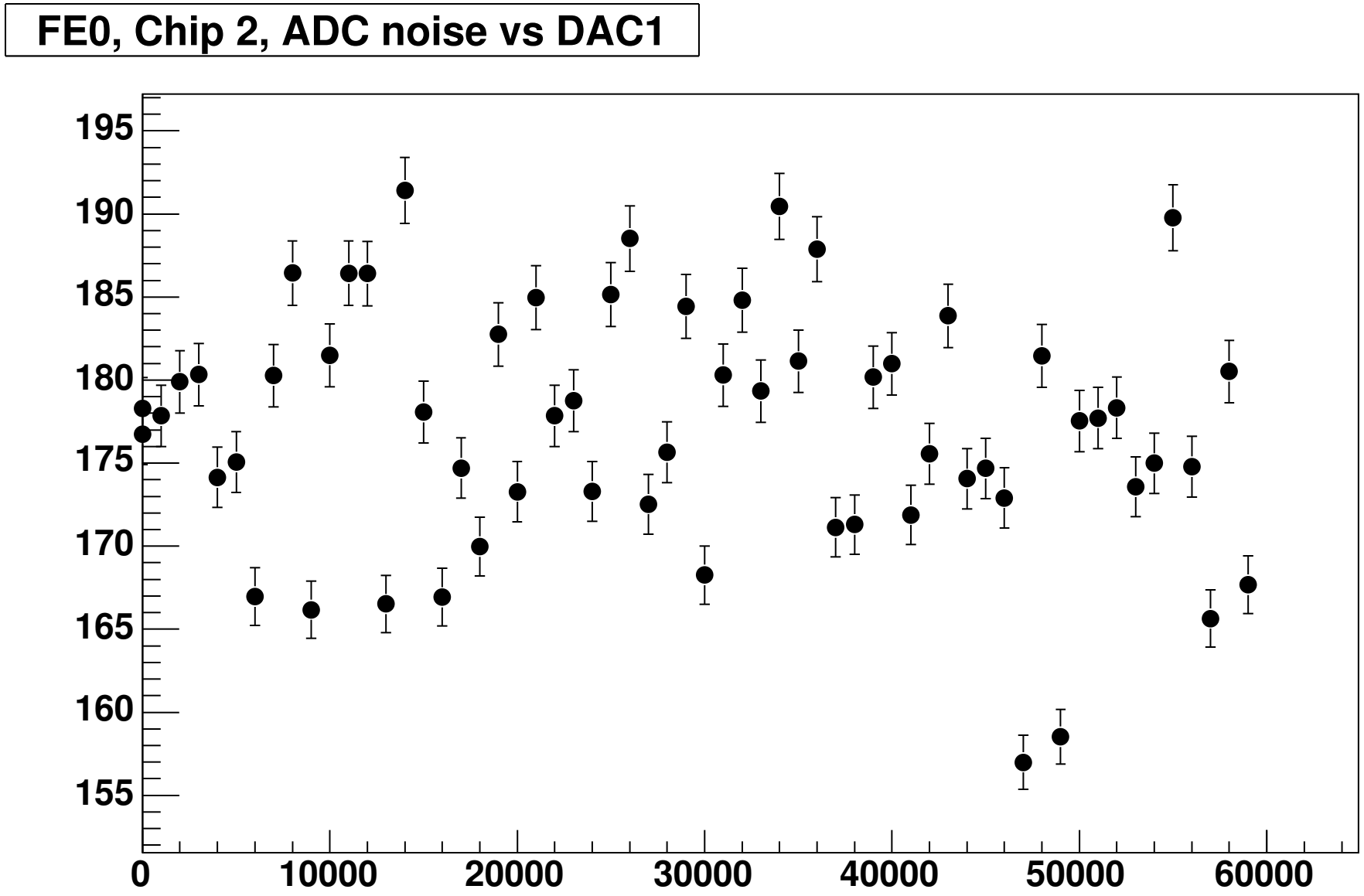

FE0, Chip 1, ADC residuals vs DAC1
20
10
0
-10
-20
0
10000
20000
30000
40000
50000
60000

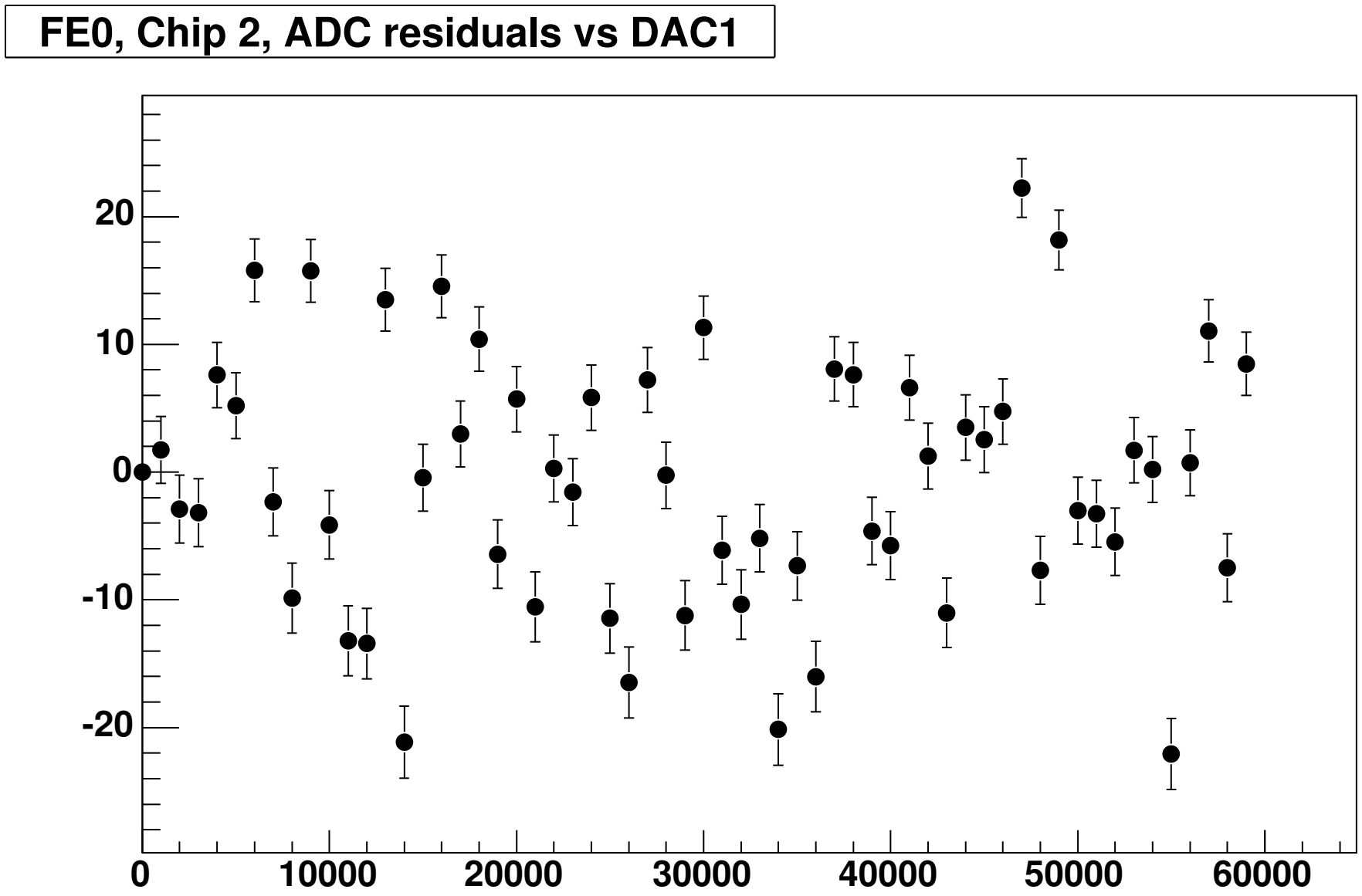

FE0, Chip 2, ADC mean vs DAC0
χ² / ndf 9.156e+04 / 57
p0 43.23 ± 0.01175
p1 0.4513 ± 3.79e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

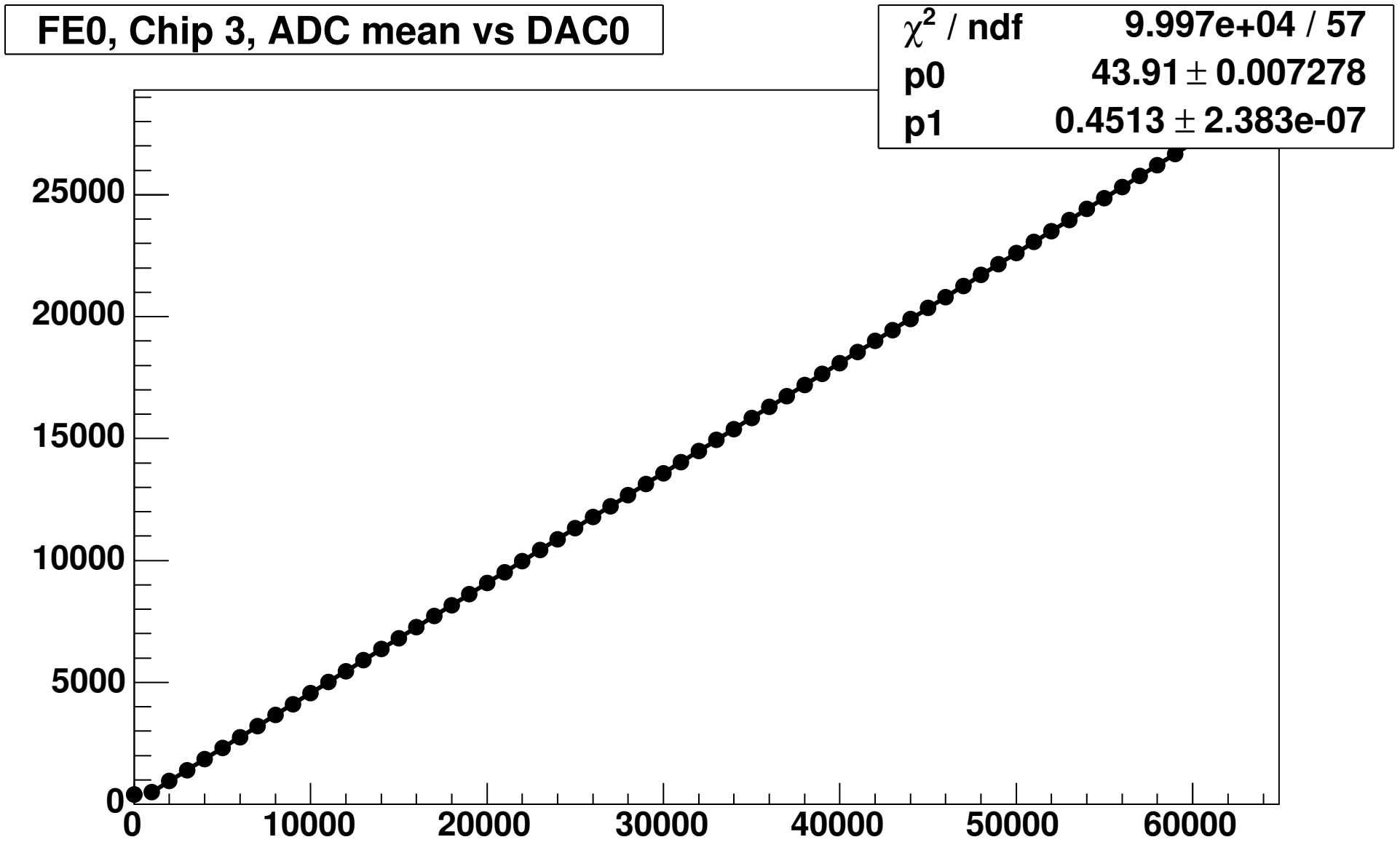

FE0, Chip 2, ADC noise vs DAC0
400
350
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000

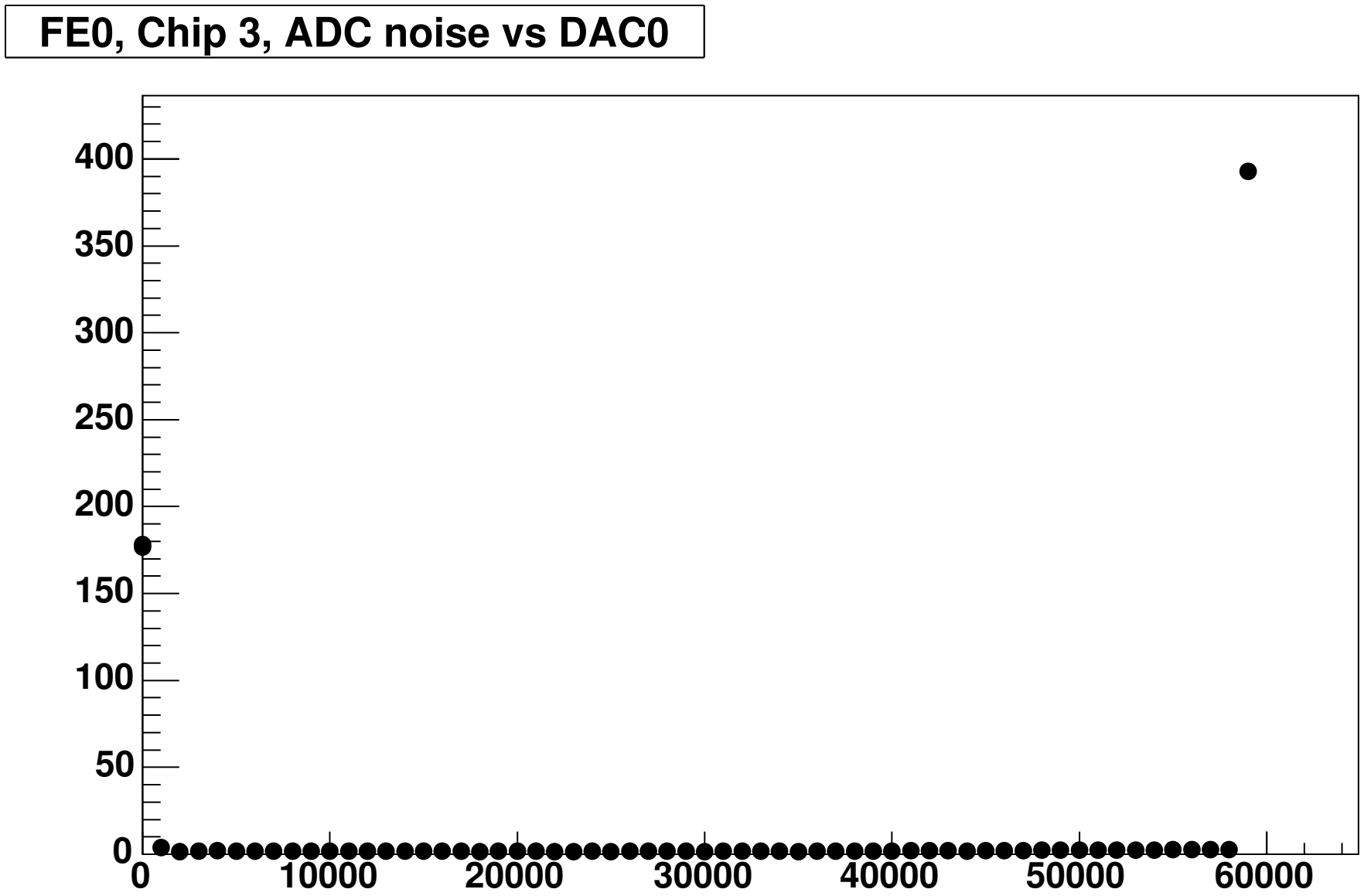

FE0, Chip 2, ADC residuals vs DAC0
10
5
0
-5
-10
-15
0
10000
20000
30000
40000
50000
60000

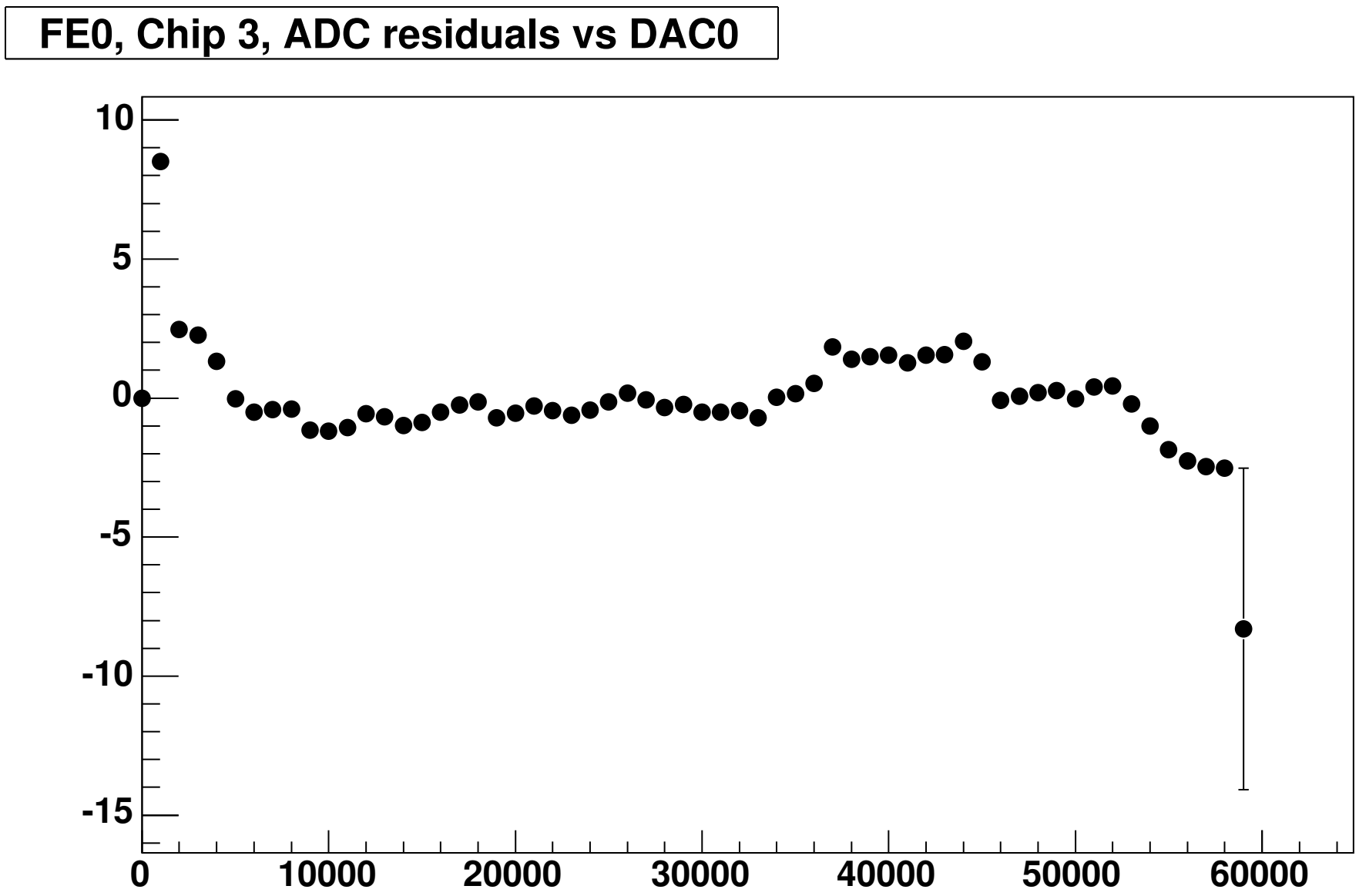

FE0, Chip 2, ADC mean vs DAC1
χ² / ndf 876.7 / 57
p0 396.5 ± 0.6875
p1 8.699e-05 ± 1.978e-05
430
420
410
400
390
380
370
0
10000
20000
30000
40000
50000
60000

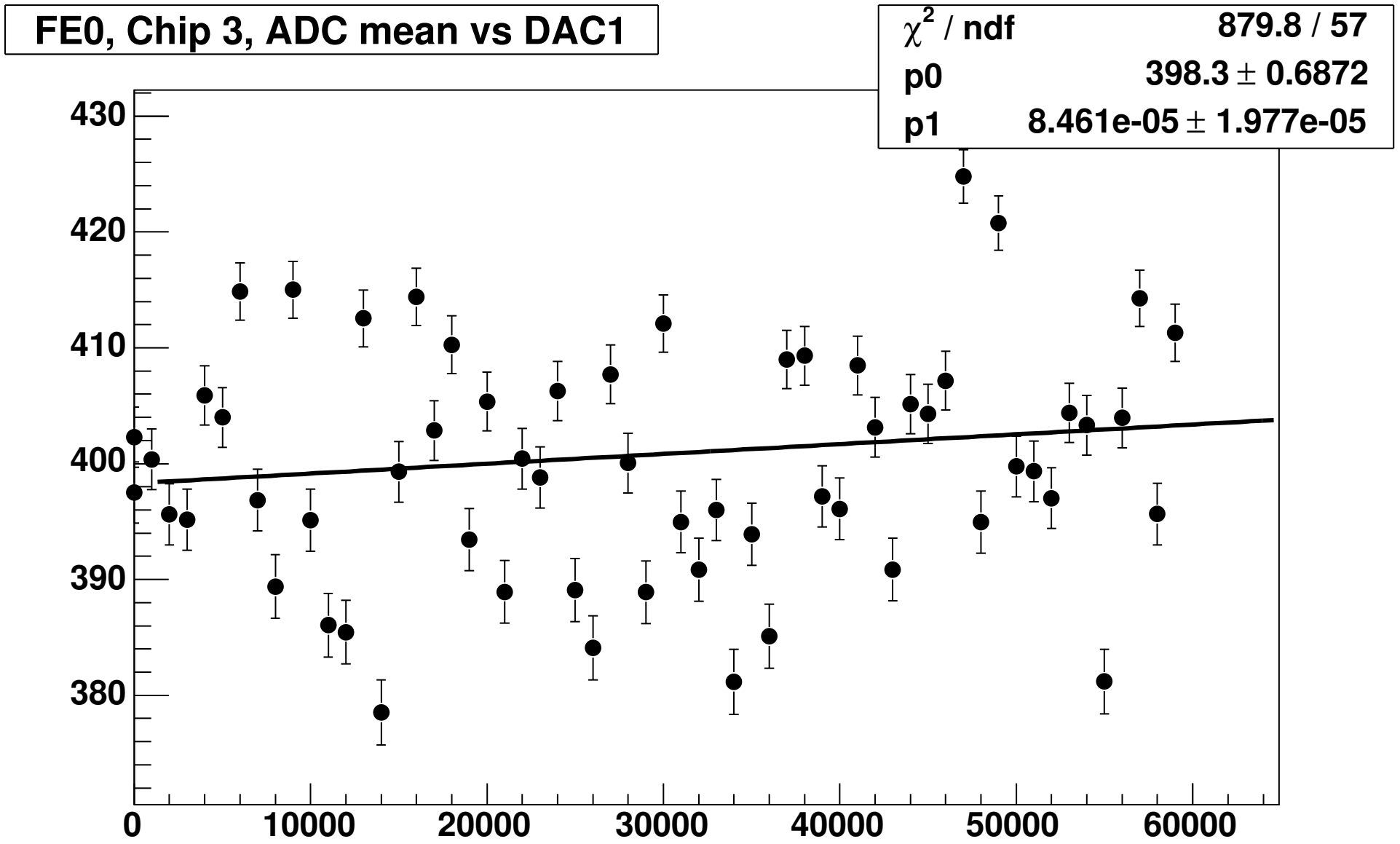

FE0, Chip 2, ADC noise vs DAC1
195
190
185
180
175
170
165
160
155
0
10000
20000
30000
40000
50000
60000

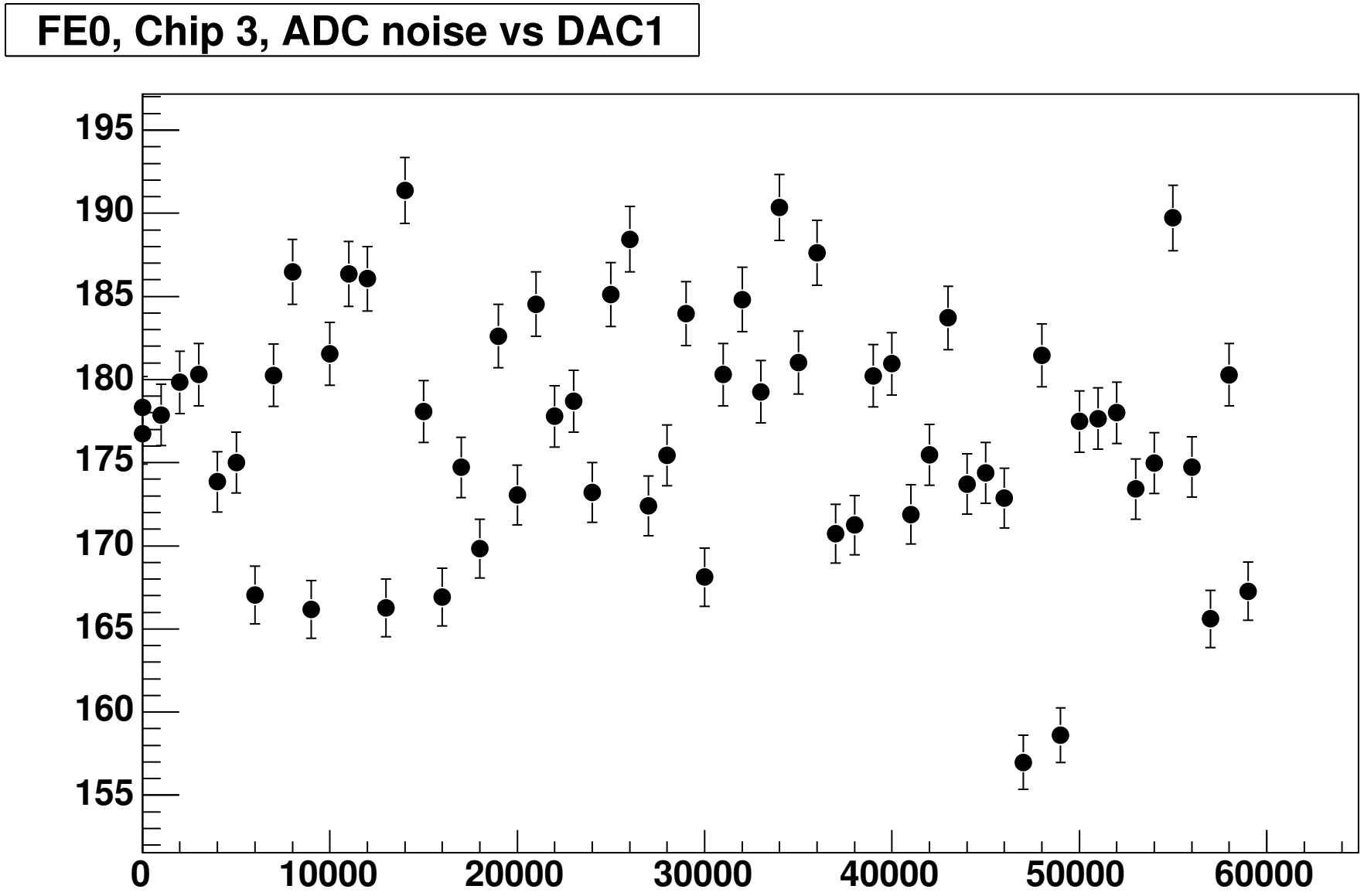

FE0, Chip 2, ADC residuals vs DAC1
20
10
0
-10
-20
0
10000
20000
30000
40000
50000
60000

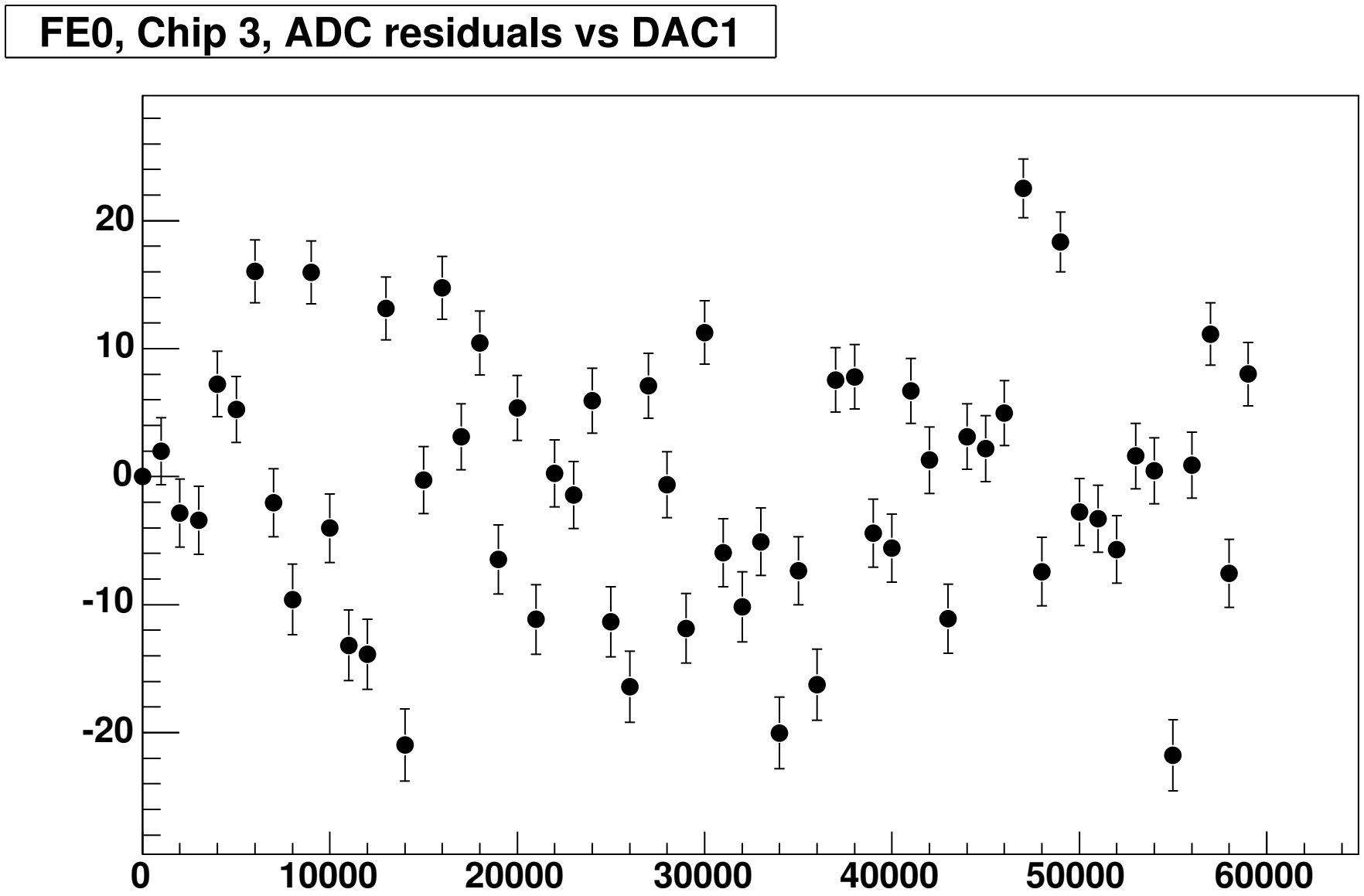

FE0, Chip 3, ADC mean vs DAC0
χ² / ndf 9.997e+04 / 57
p0 43.91 ± 0.007278
p1 0.4513 ± 2.383e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

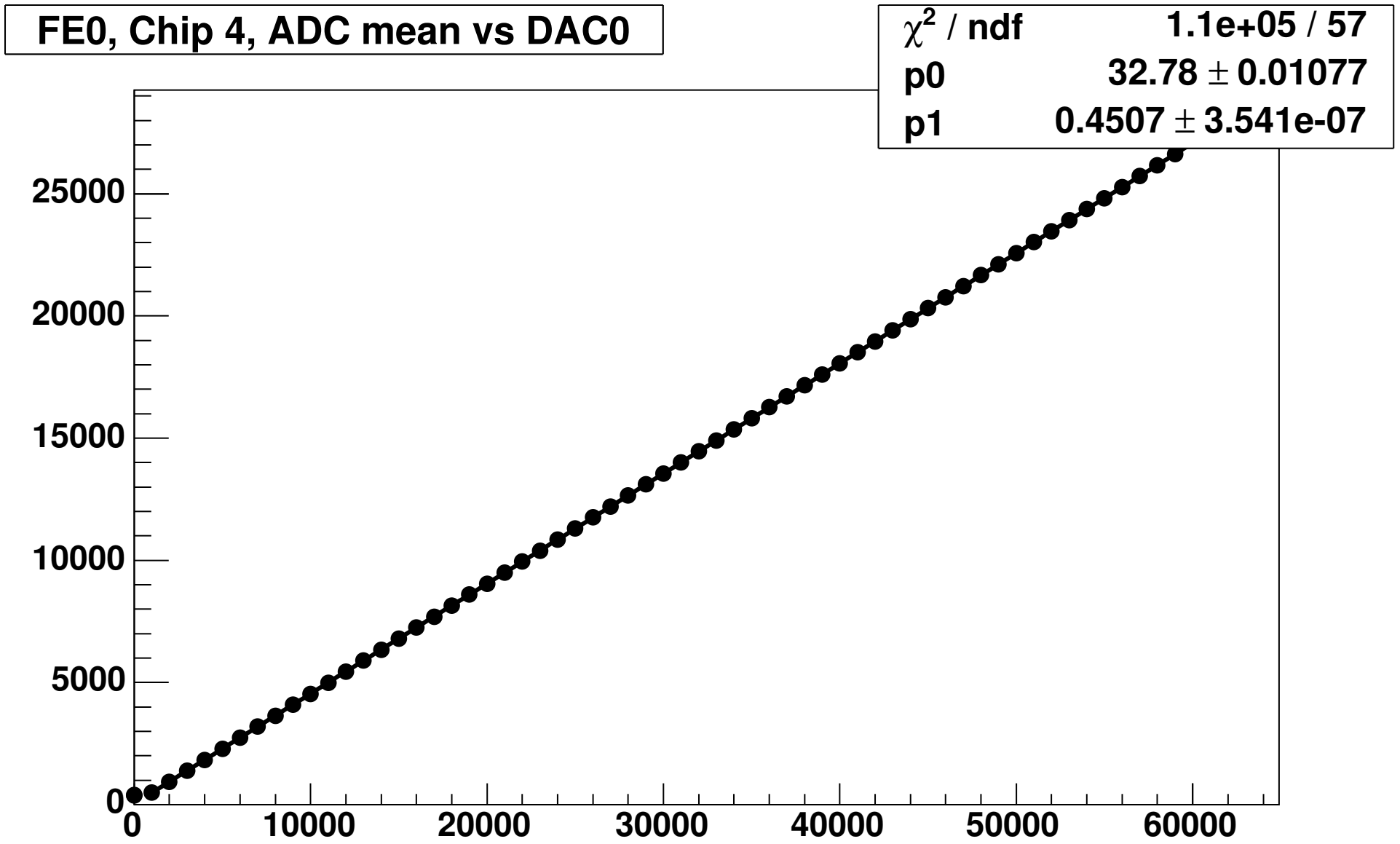

FE0, Chip 3, ADC noise vs DAC0
400
350
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000

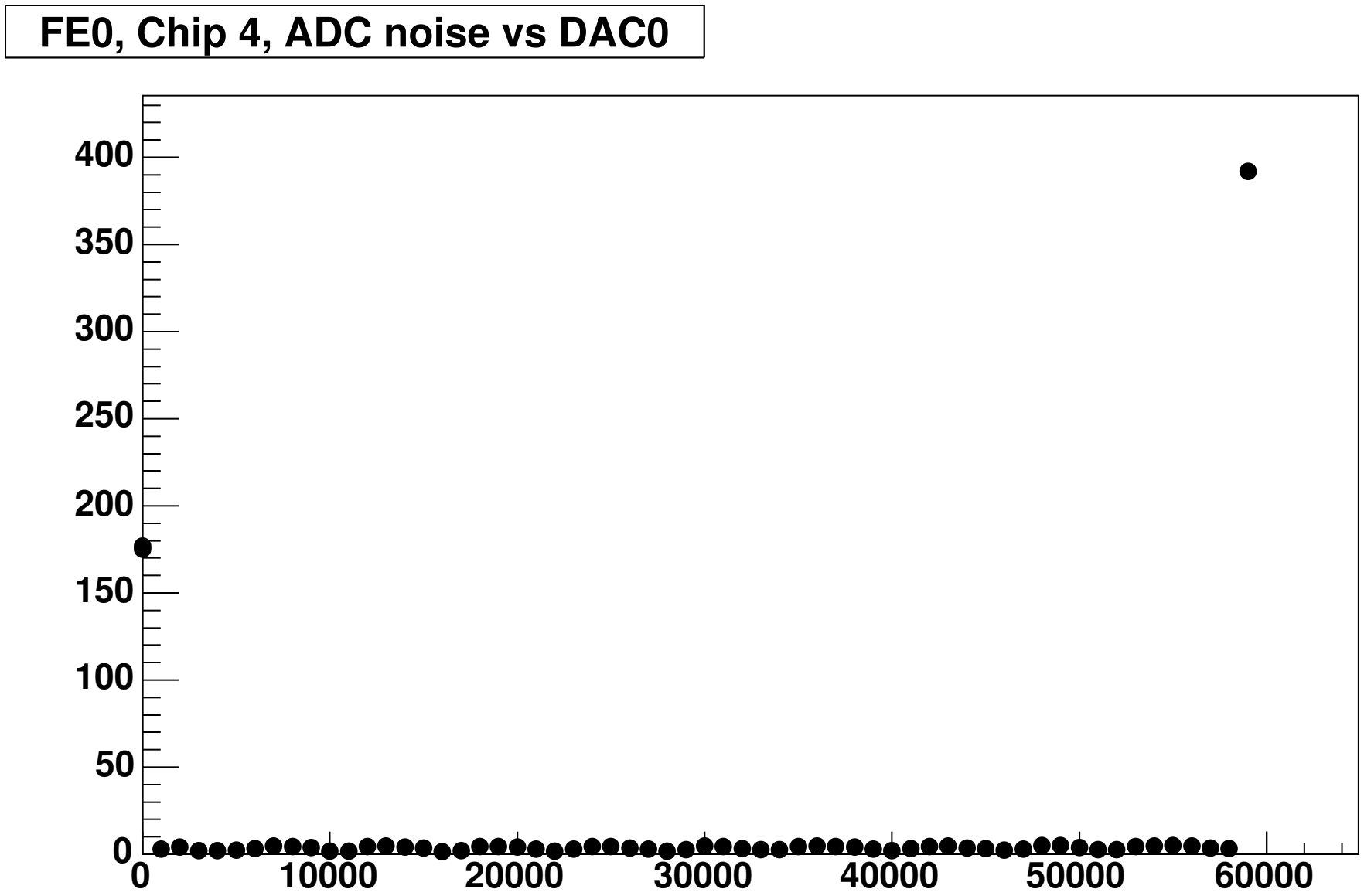

FE0, Chip 3, ADC residuals vs DAC0
10
5
0
-5
-10
-15
0
10000
20000
30000
40000
50000
60000

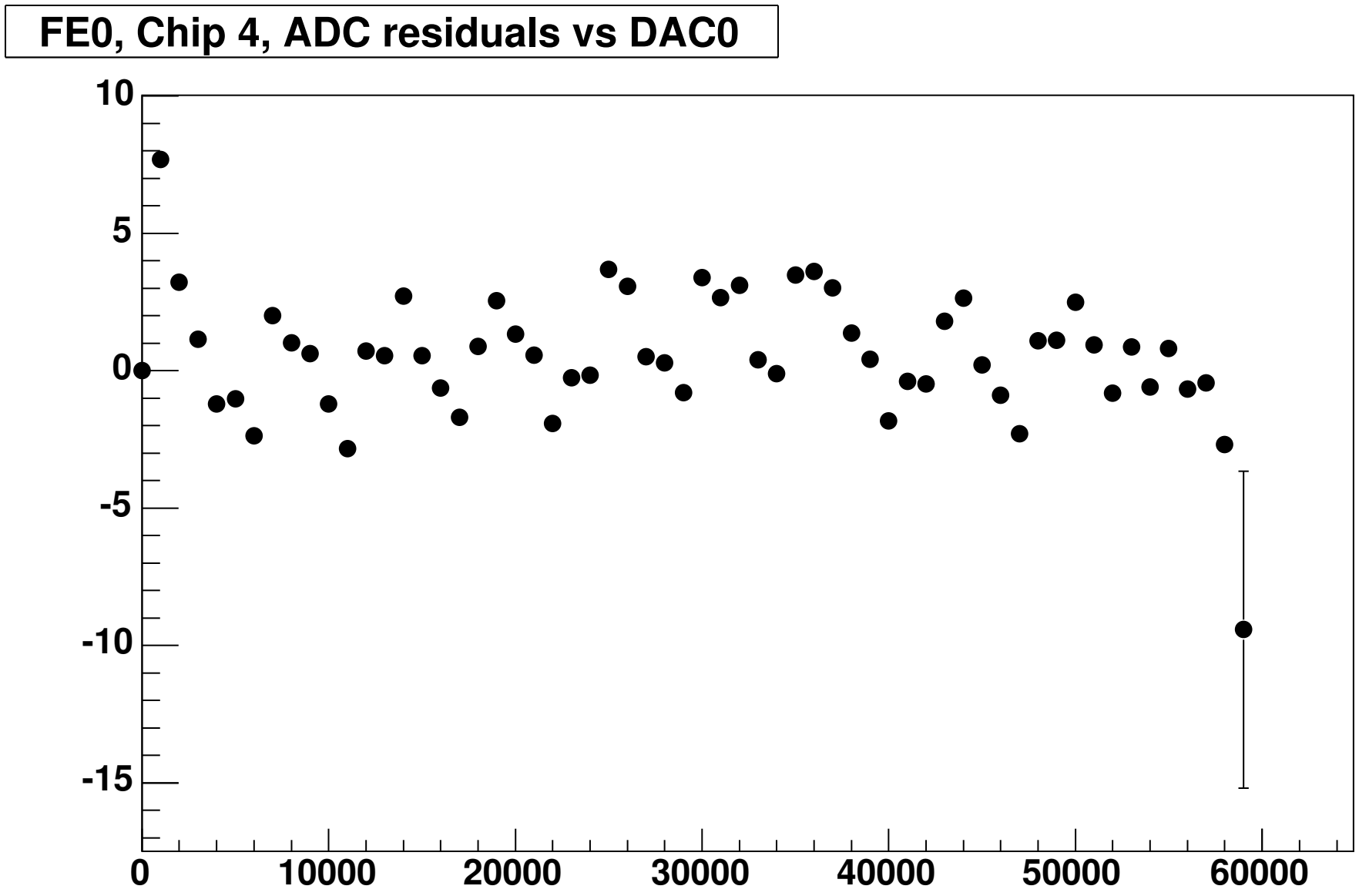

FE0, Chip 3, ADC mean vs DAC1
χ² / ndf 879.8 / 57
p0 398.3 ± 0.6872
p1 8.461e-05 ± 1.977e-05
430
420
410
400
390
380
0
10000
20000
30000
40000
50000
60000

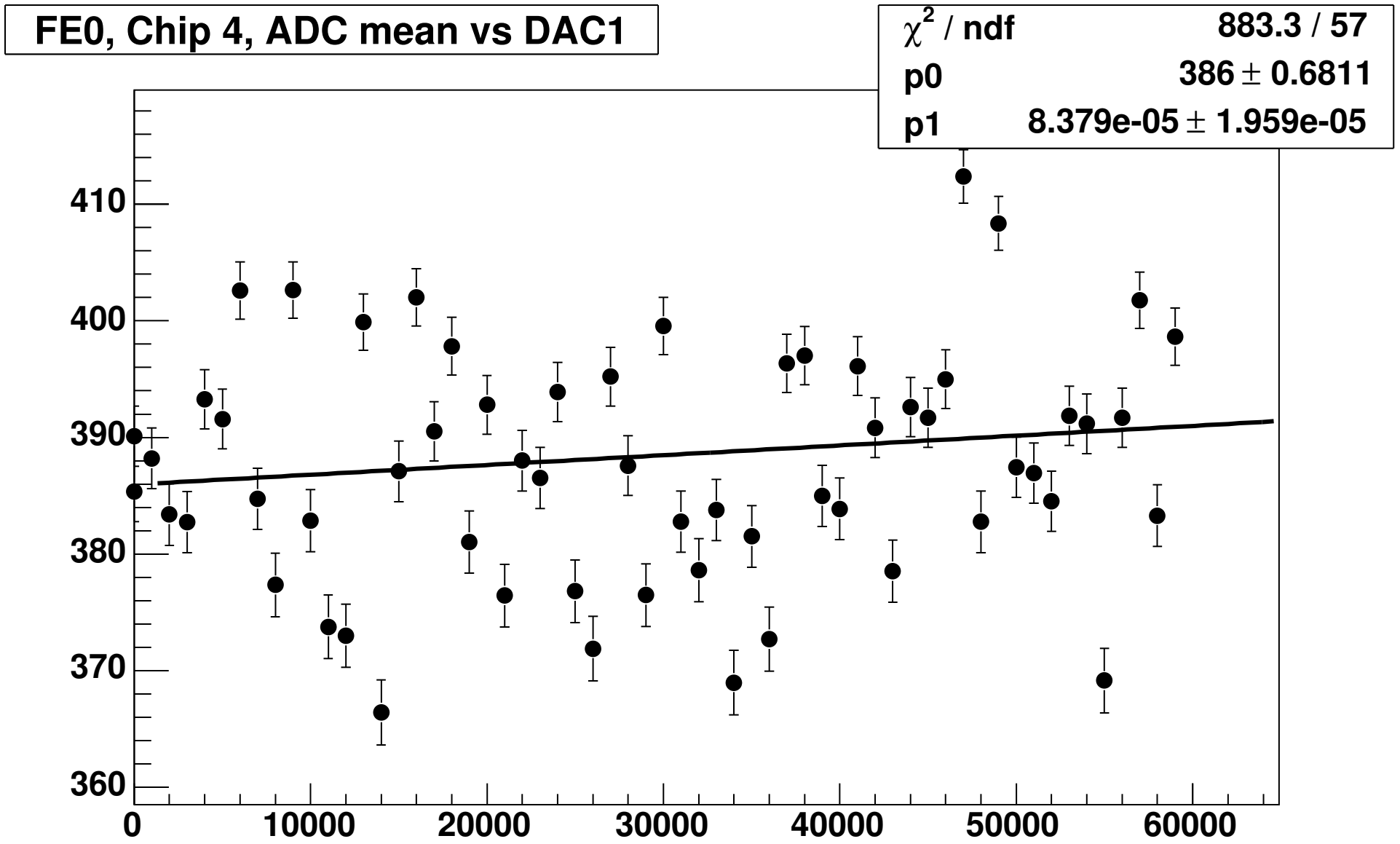

FE0, Chip 3, ADC noise vs DAC1
195
190
185
180
175
170
165
160
155
0
10000
20000
30000
40000
50000
60000

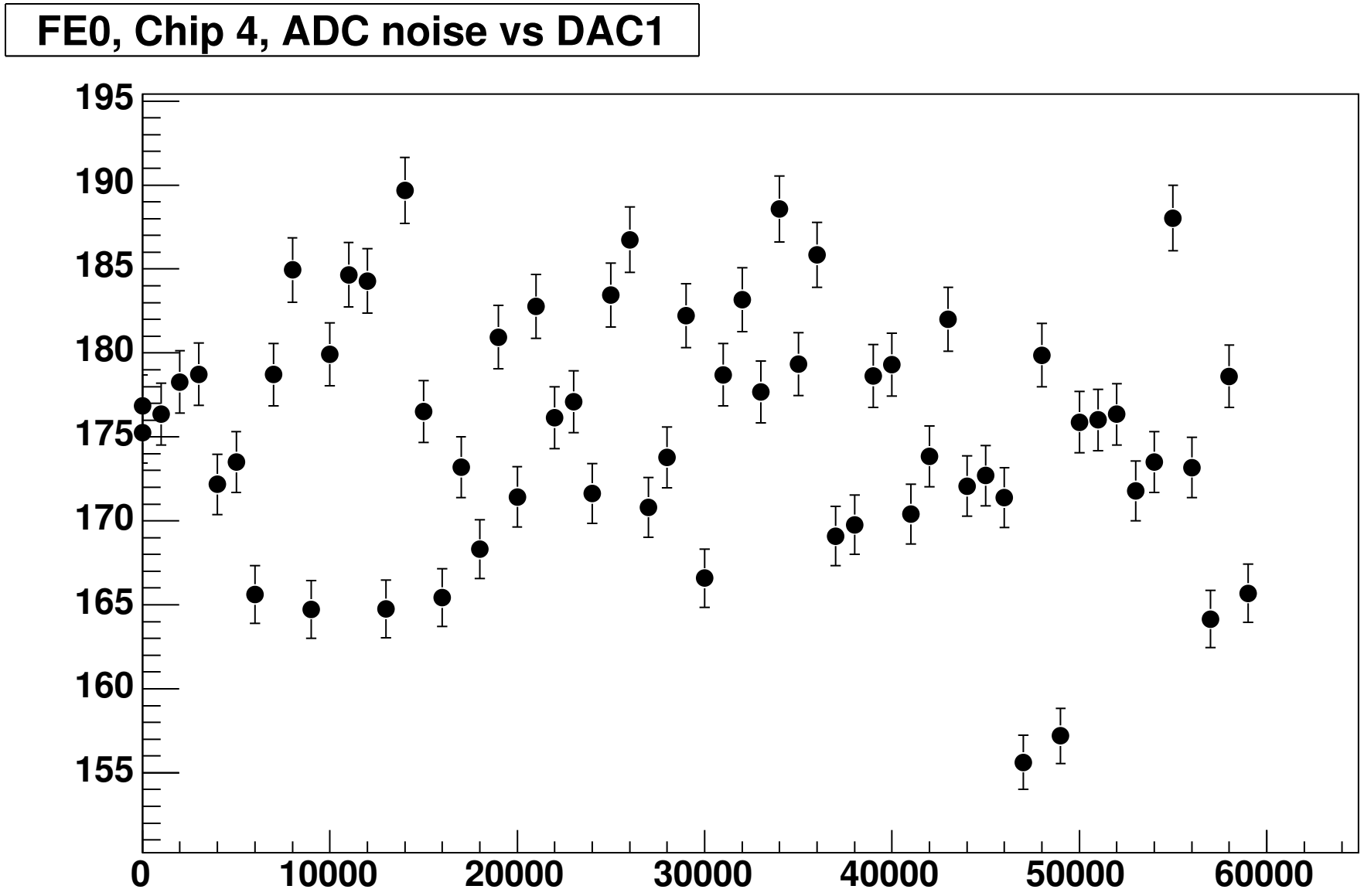

FE0, Chip 3, ADC residuals vs DAC1
20
10
0
-10
-20
0
10000
20000
30000
40000
50000
60000


FE0, Chip 4, ADC mean vs DAC0
χ² / ndf 1.1e+05 / 57
p0 32.78 ± 0.01077
p1 0.4507 ± 3.541e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

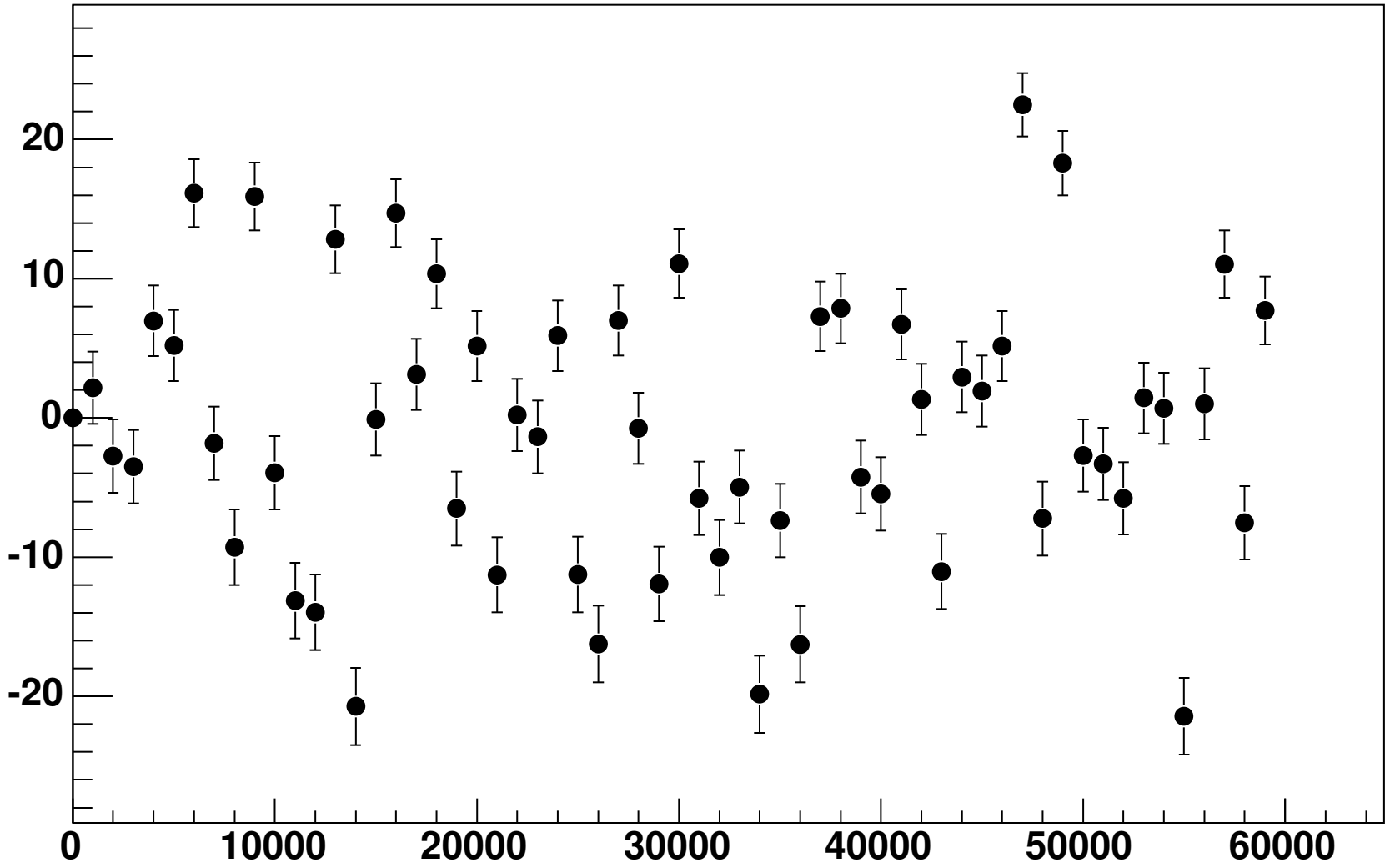

FE0, Chip 4, ADC noise vs DAC0
400
350
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000

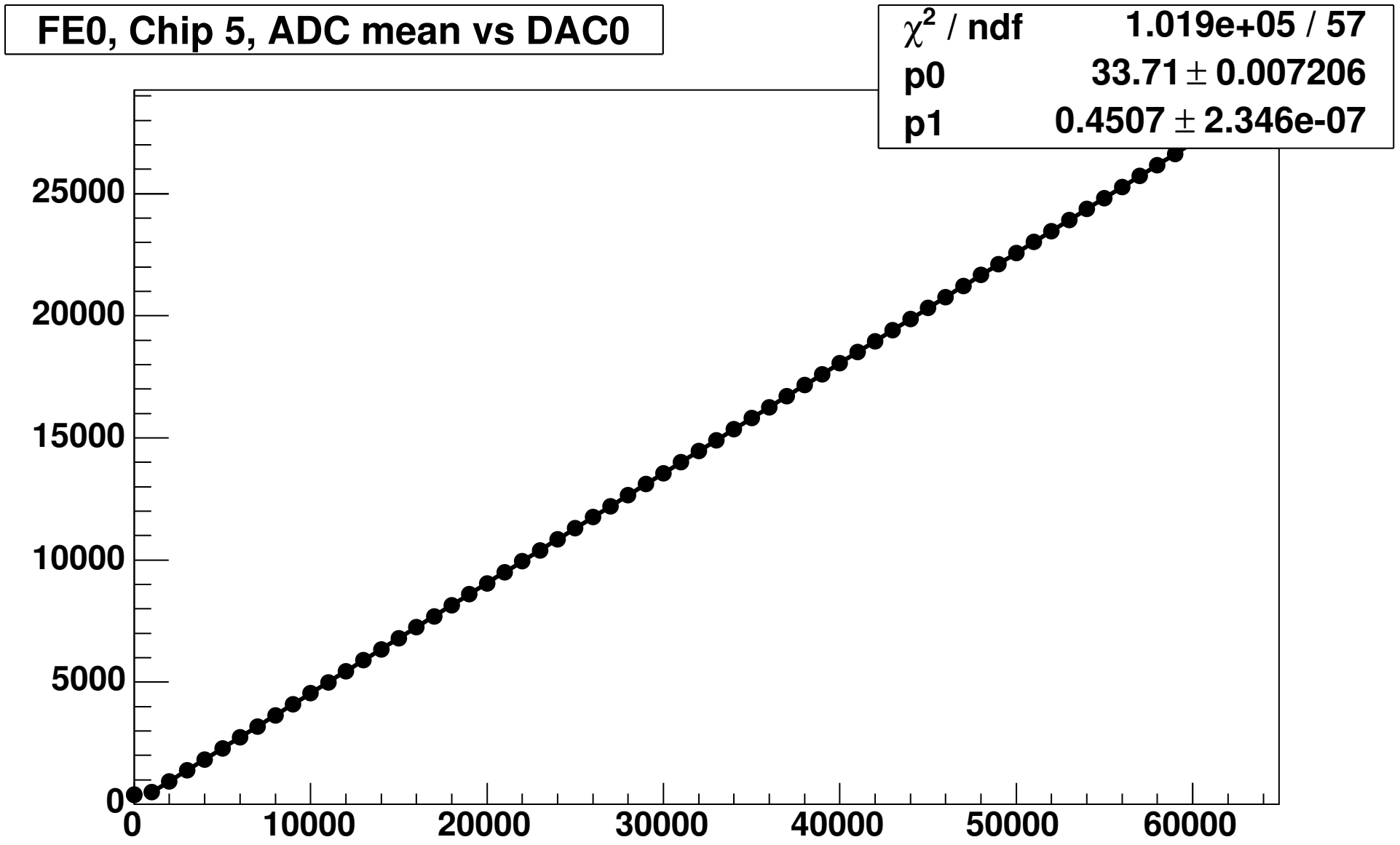

FE0, Chip 4, ADC residuals vs DAC0
10
5
0
-5
-10
-15
0
10000
20000
30000
40000
50000
60000

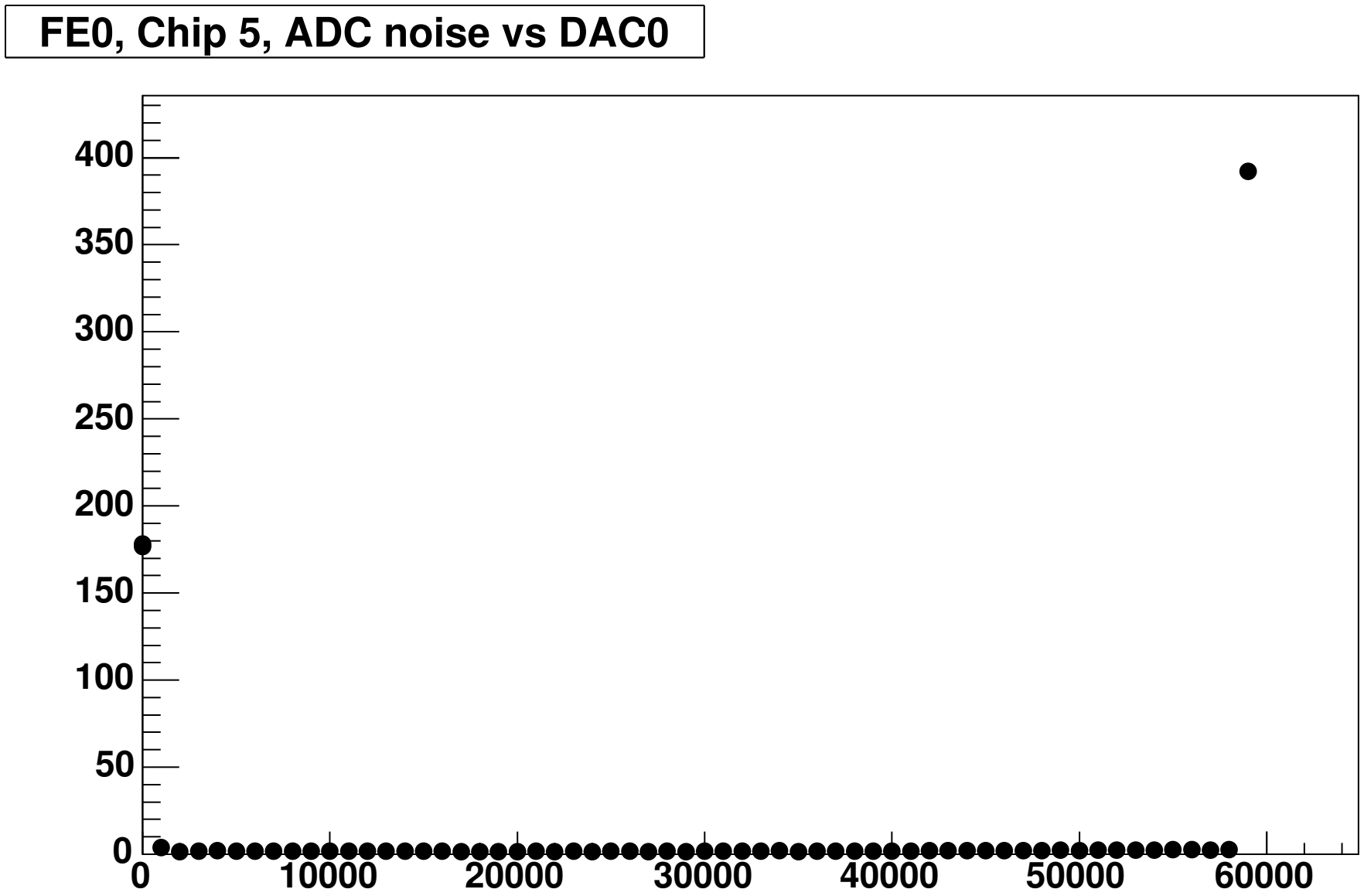

FE0, Chip 4, ADC mean vs DAC1
χ² / ndf 883.3 / 57
p0 386 ± 0.6811
p1 8.379e-05 ± 1.959e-05
410
400
390
380
370
360
0
10000
20000
30000
40000
50000
60000

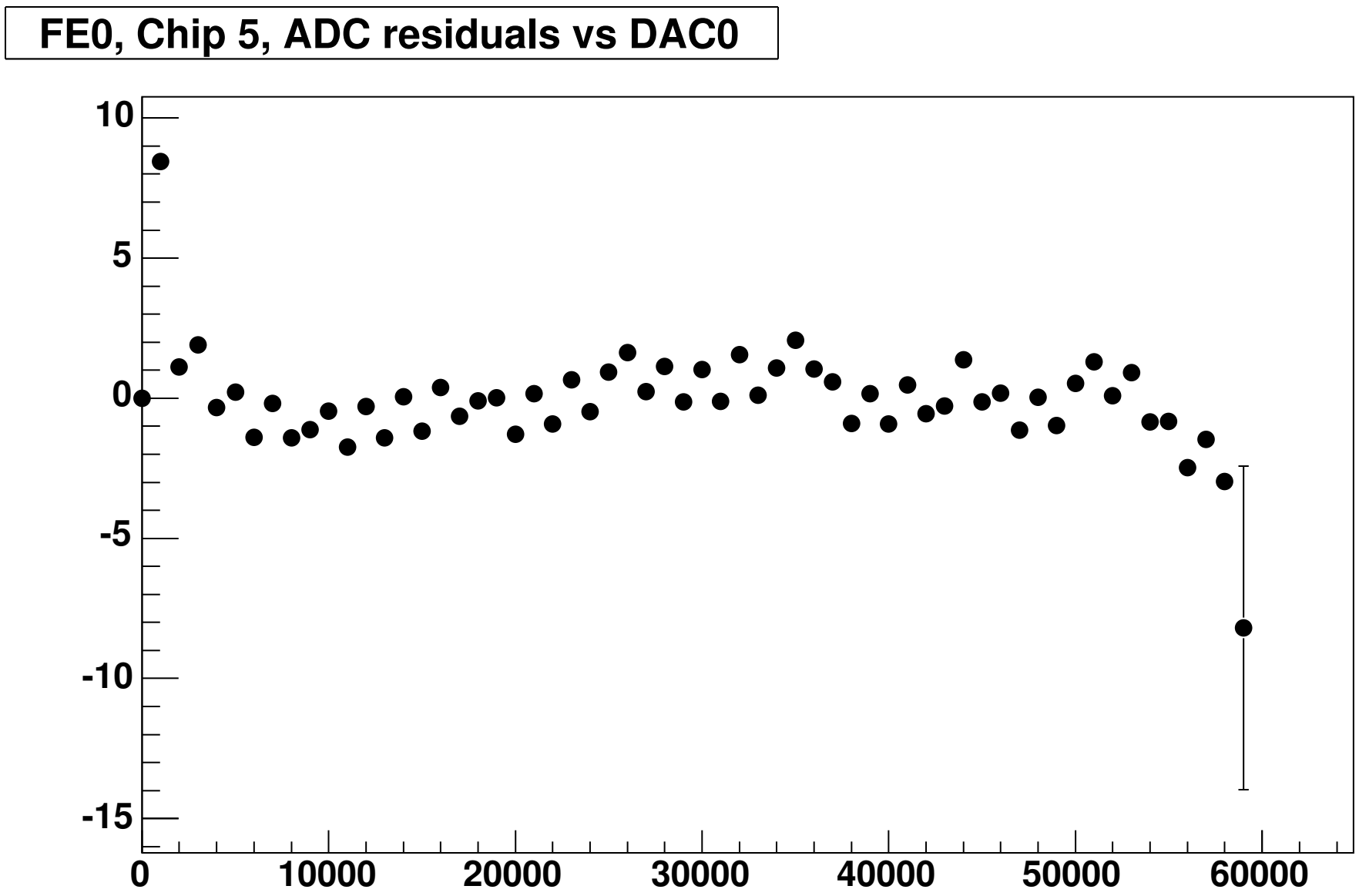

FE0, Chip 4, ADC noise vs DAC1
195
190
185
180
175
170
165
160
155
0
10000
20000
30000
40000
50000
60000

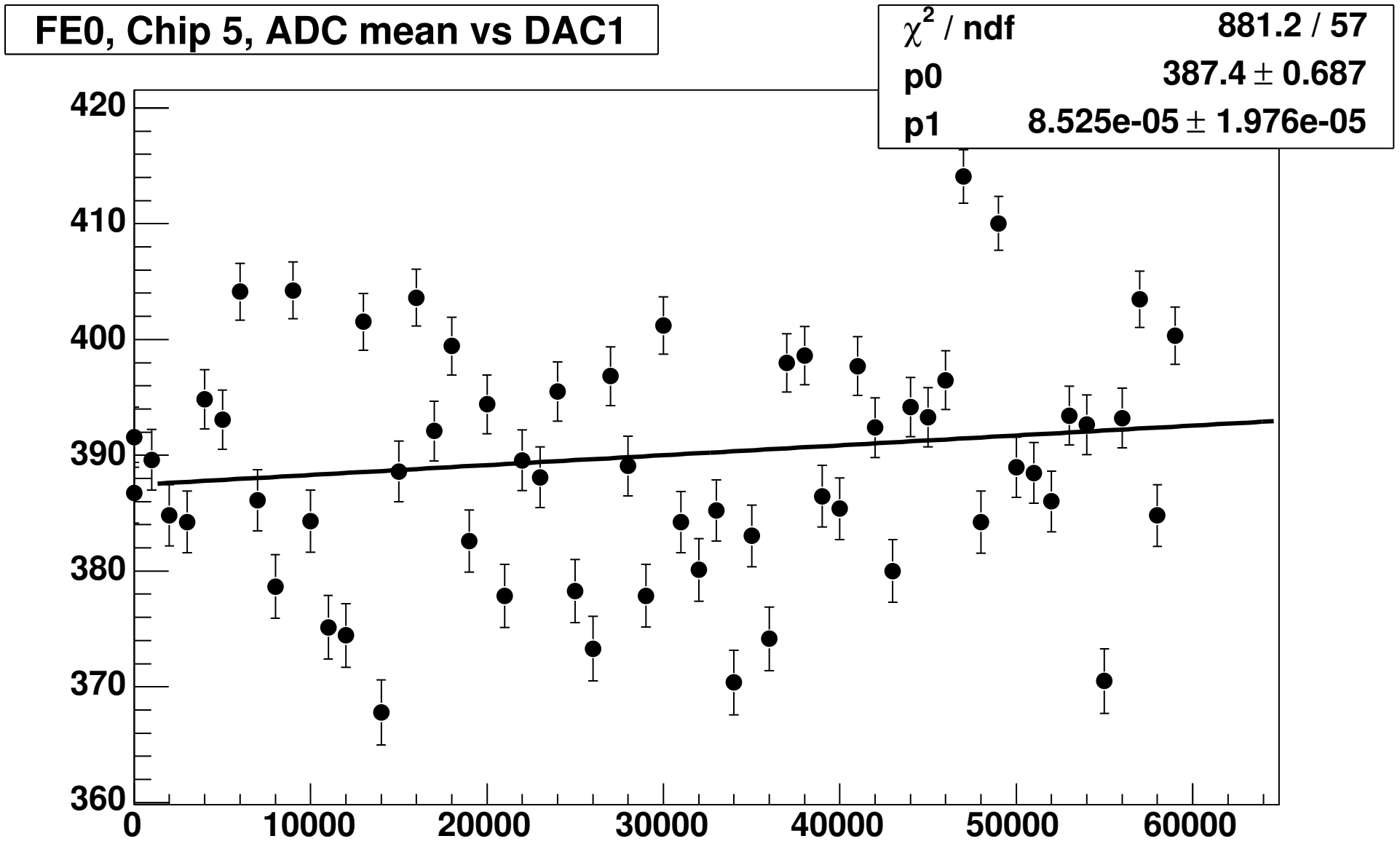
FE0, Chip 4, ADC residuals vs DAC1

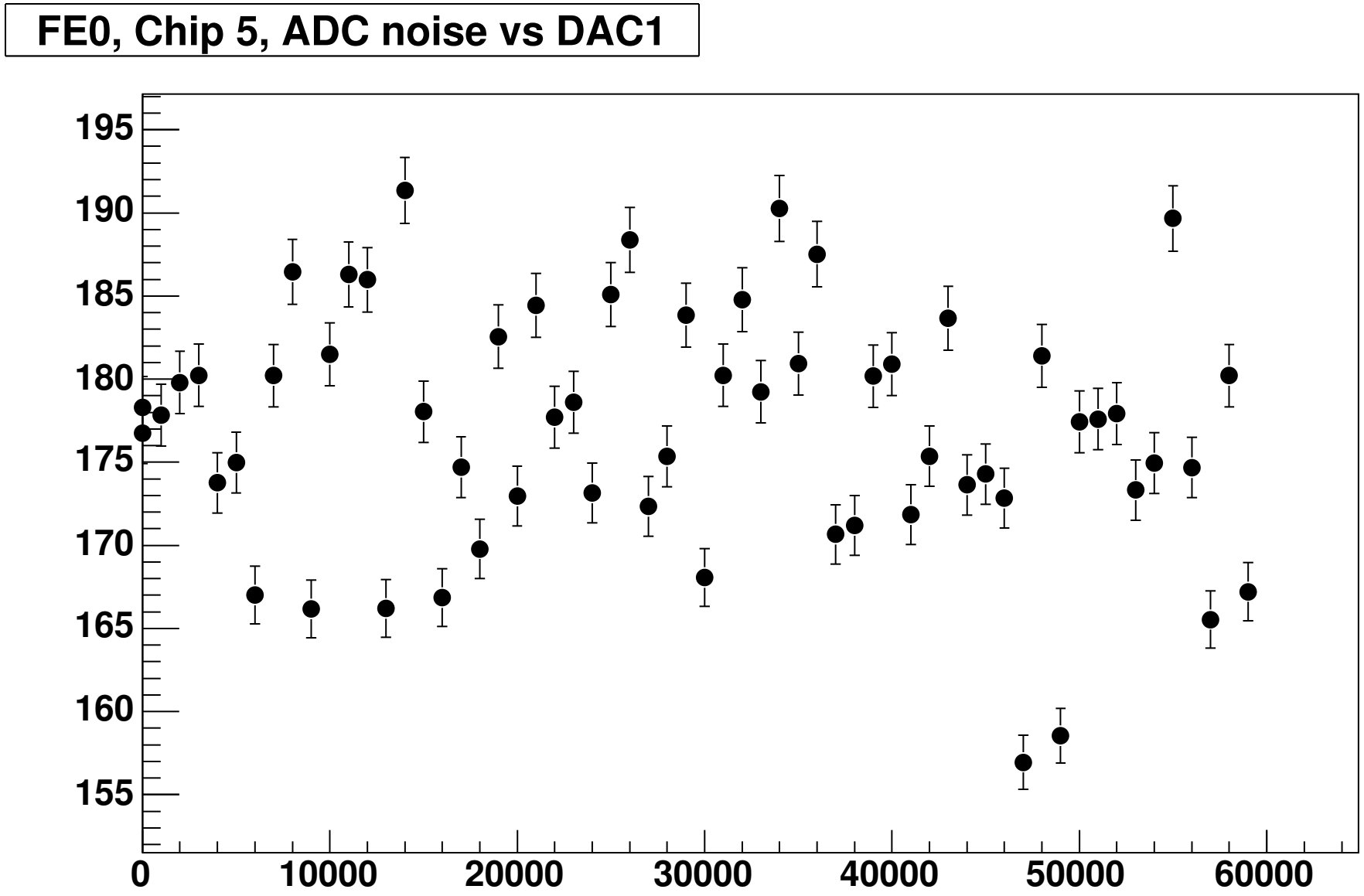



FE0, Chip 5, ADC mean vs DAC0
χ² / ndf 1.019e+05 / 57
p0 33.71 ± 0.007206
p1 0.4507 ± 2.346e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

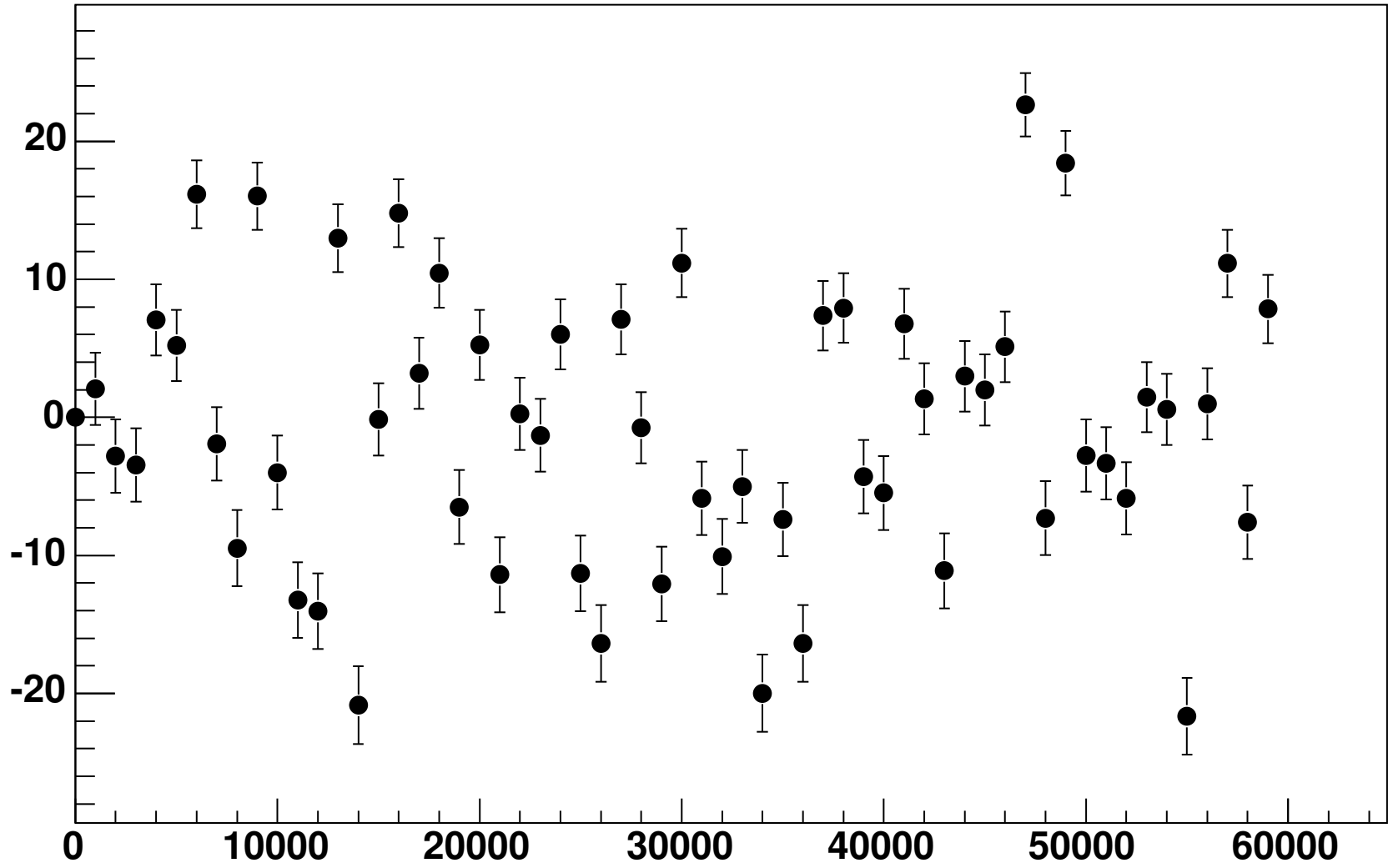

FE0, Chip 5, ADC noise vs DAC0
400
350
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000

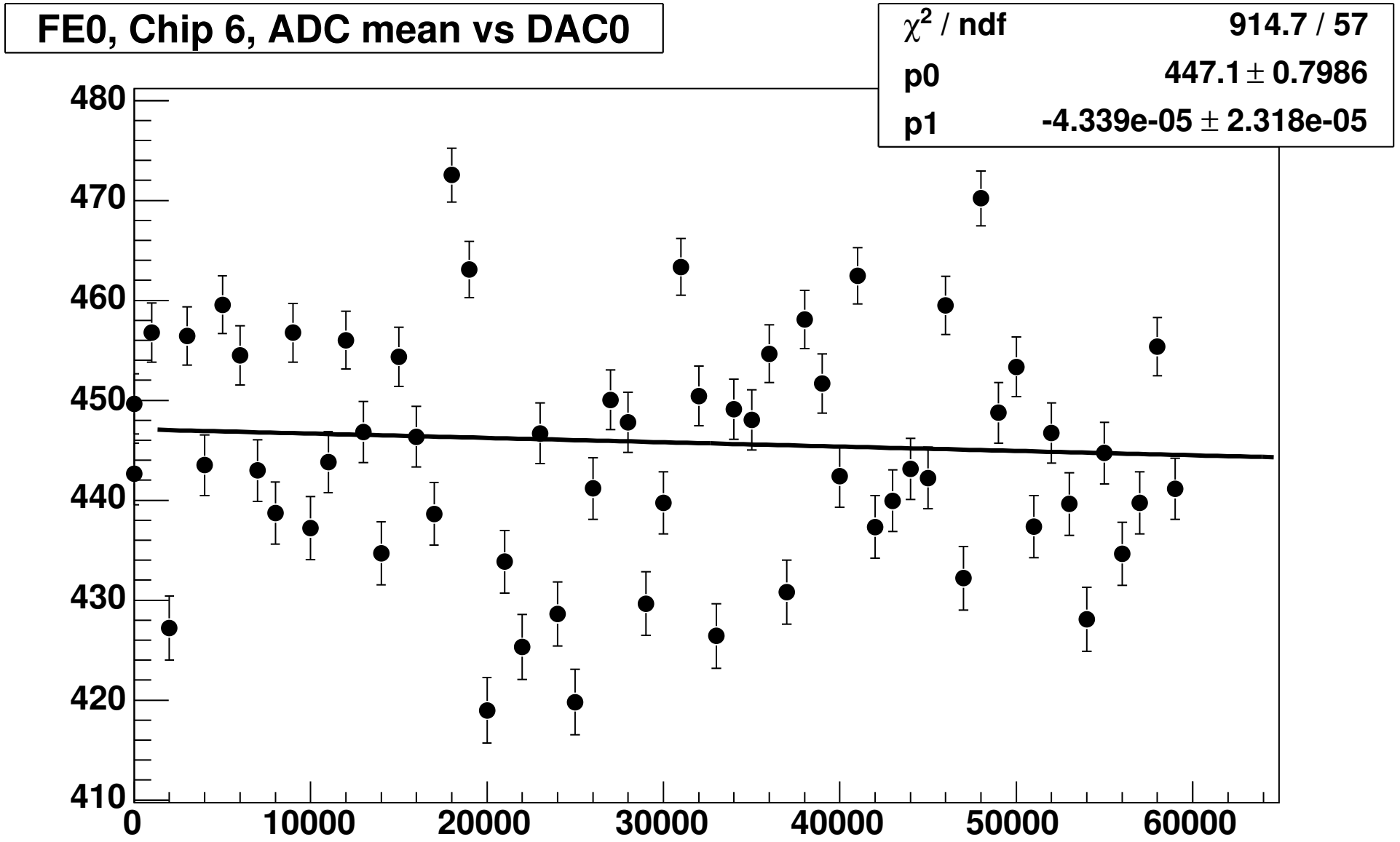

FE0, Chip 5, ADC residuals vs DAC0
10
5
0
-5
-10
-15
0
10000
20000
30000
40000
50000
60000

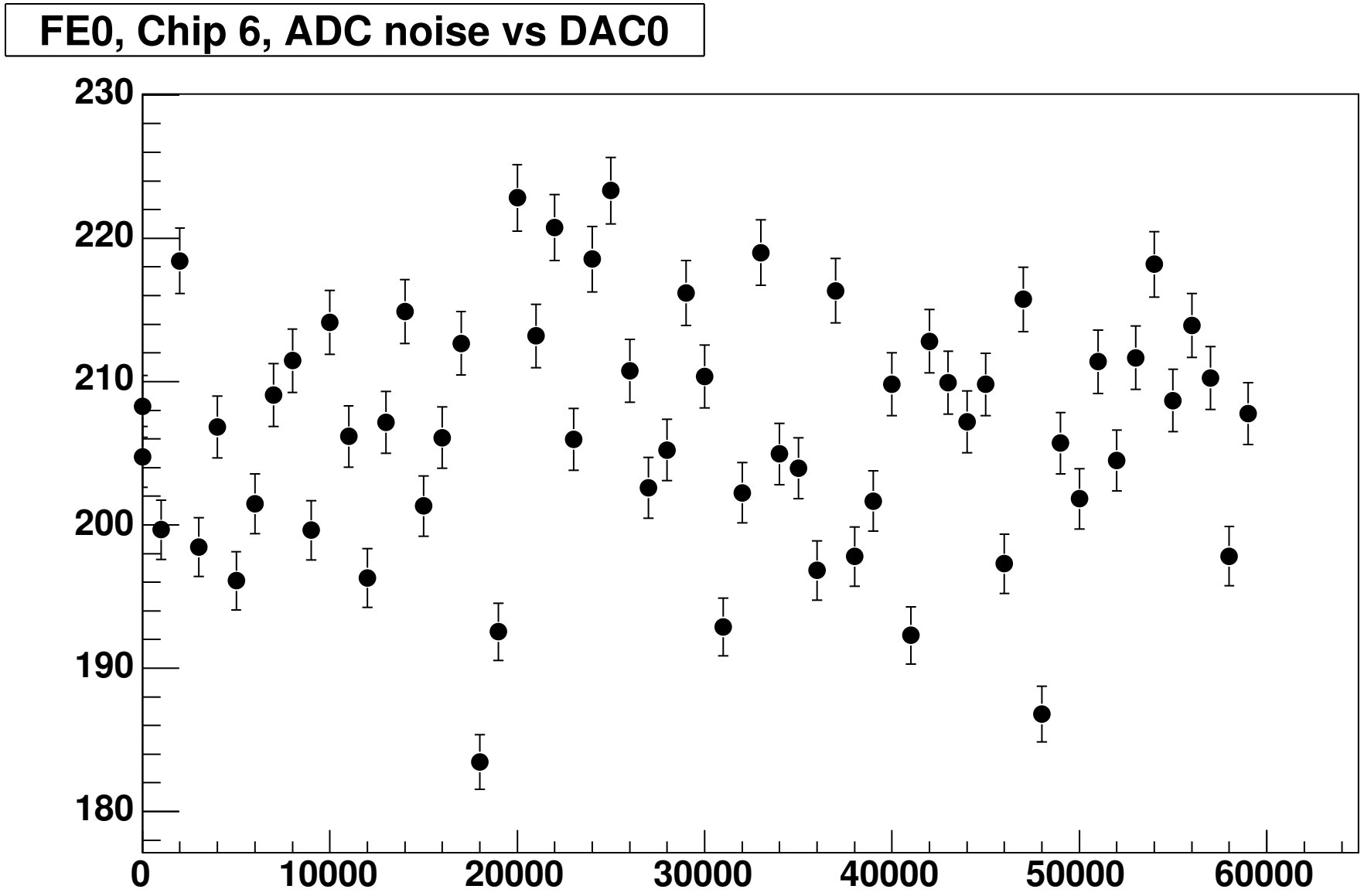

FE0, Chip 5, ADC mean vs DAC1
χ² / ndf 881.2 / 57
p0 387.4 ± 0.687
p1 8.525e-05 ± 1.976e-05
420
410
400
390
380
370
360
0
10000
20000
30000
40000
50000
60000


FE0, Chip 5, ADC noise vs DAC1
195
190
185
180
175
170
165
160
155
0
10000
20000
30000
40000
50000
60000

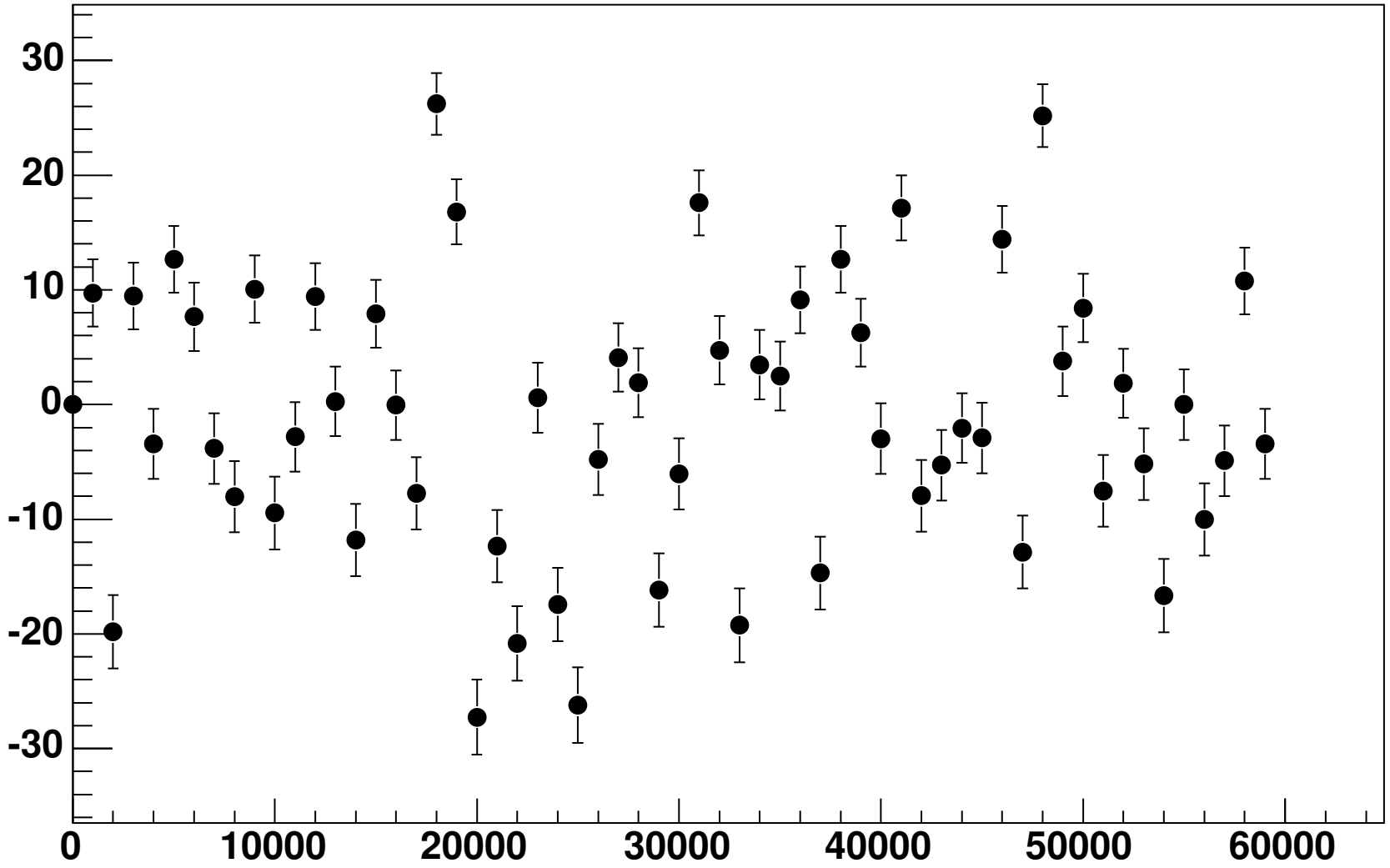
FE0, Chip 5, ADC residuals vs DAC1

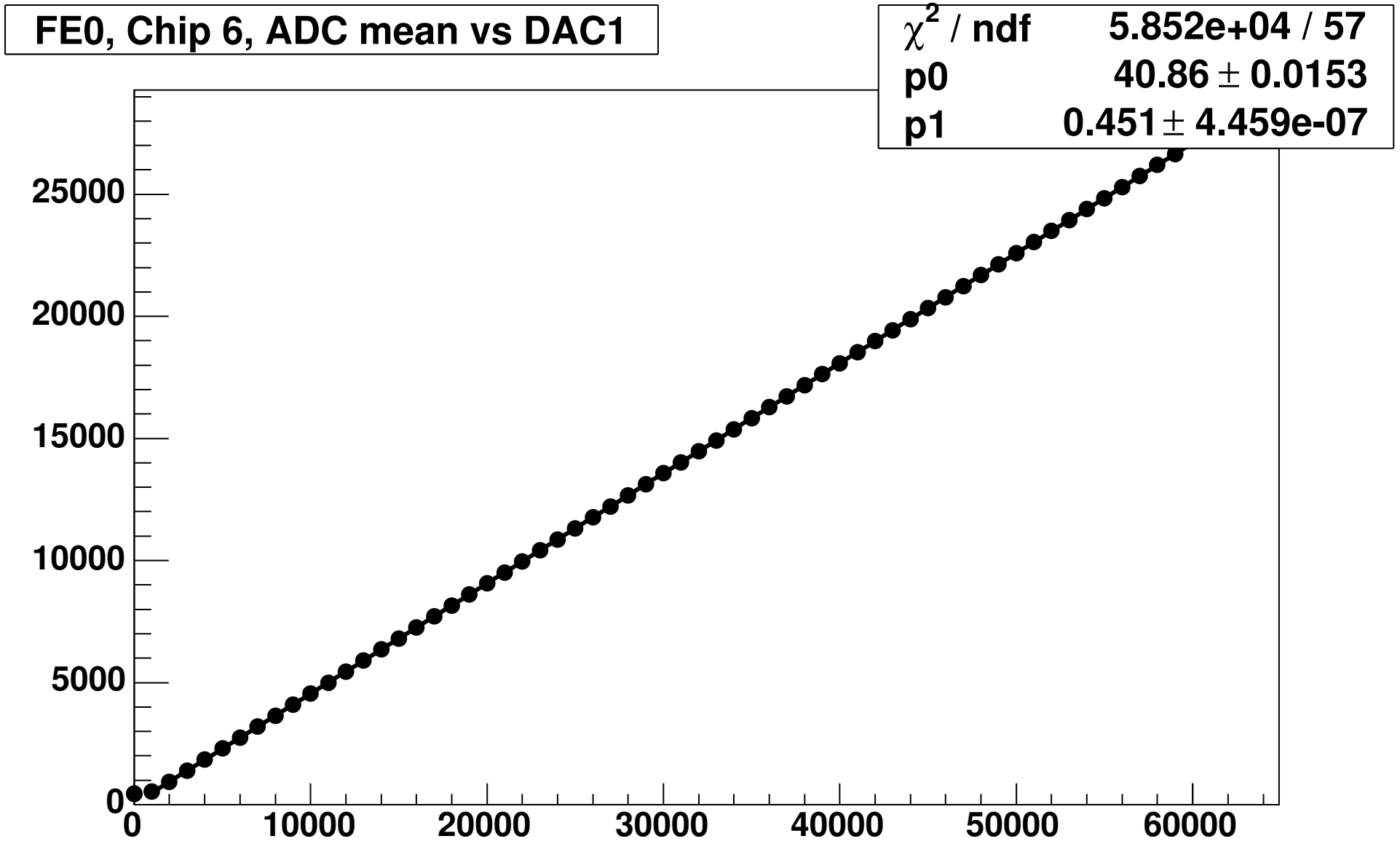


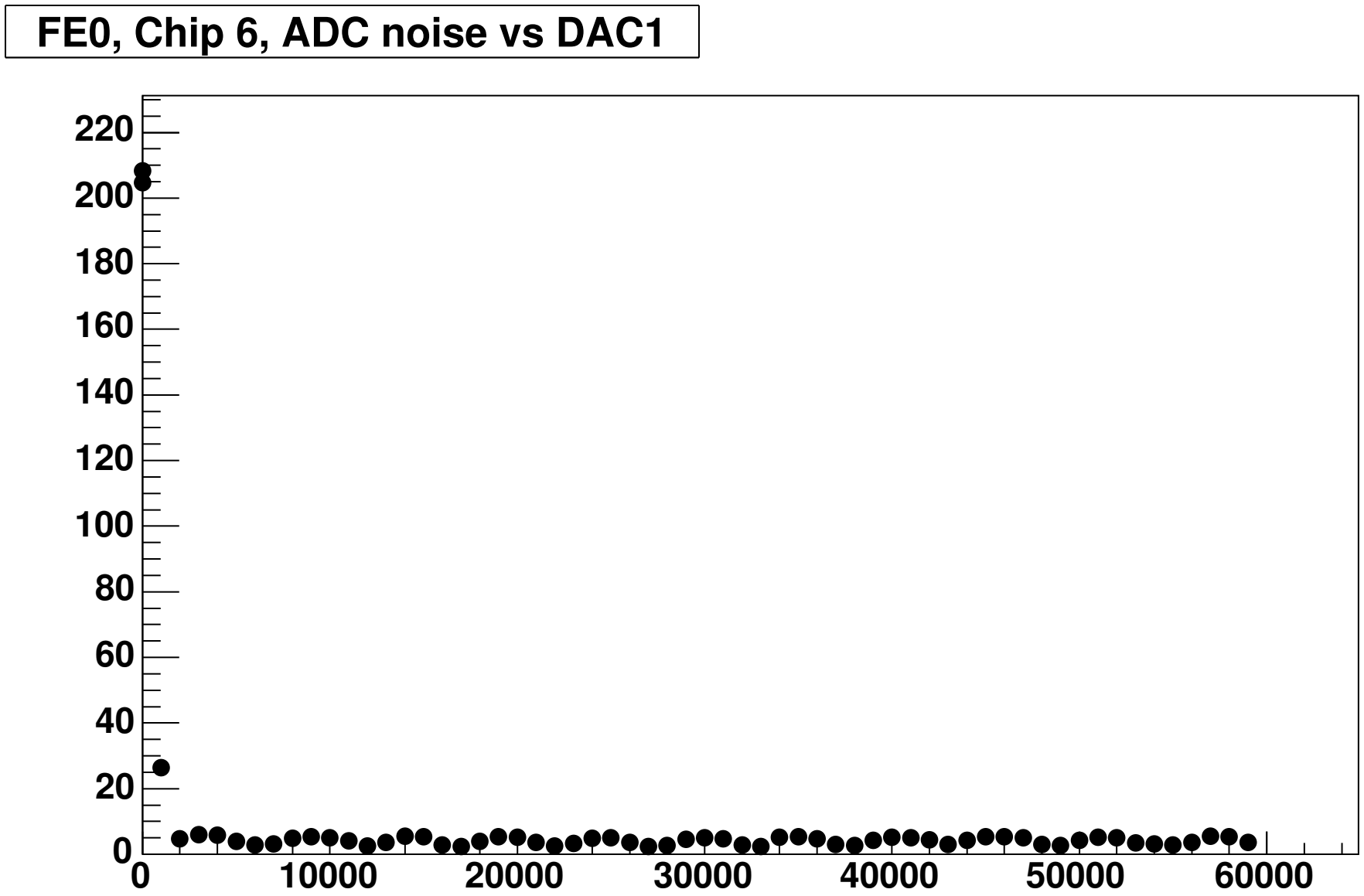

FE0, Chip 6, ADC mean vs DAC0
χ² / ndf 914.7 / 57
p0 447.1 ± 0.7986
p1 -4.339e-05 ± 2.318e-05
480
470
460
450
440
430
420
410
0
10000
20000
30000
40000
50000
60000

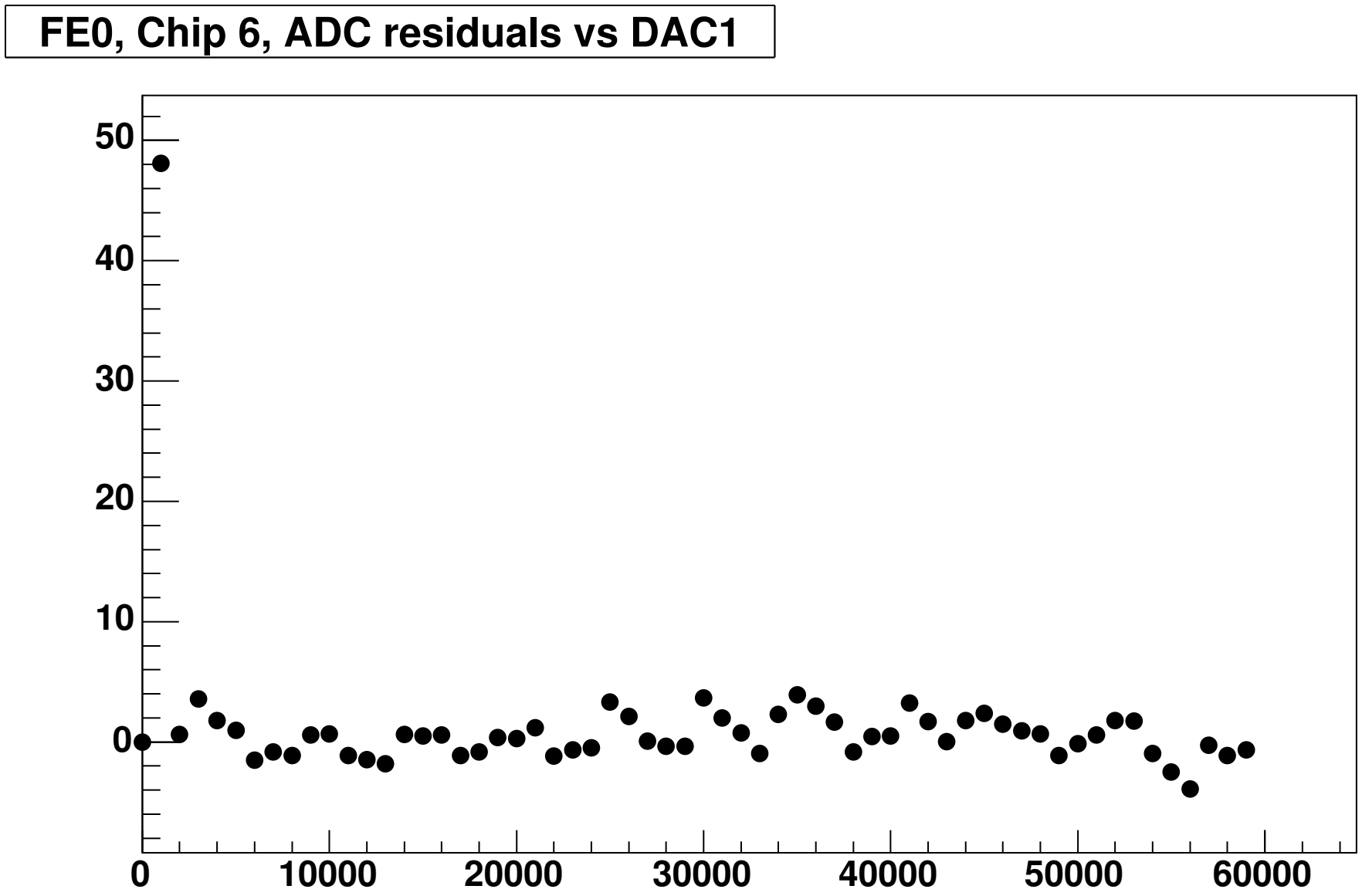

FE0, Chip 6, ADC noise vs DAC0
230
220
210
200
190
180
0
10000
20000
30000
40000
50000
60000

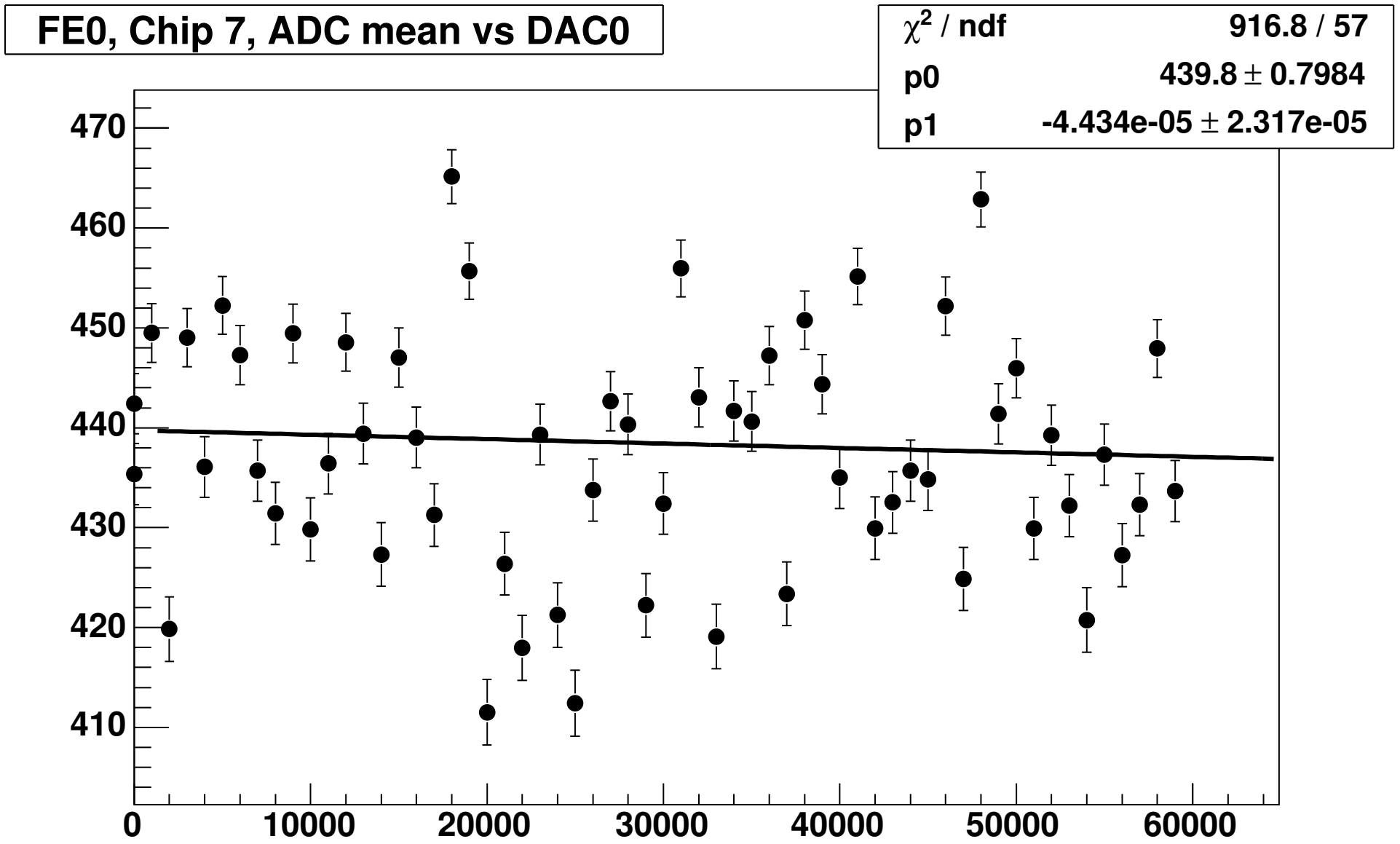
FE0, Chip 6, ADC residuals vs DAC0

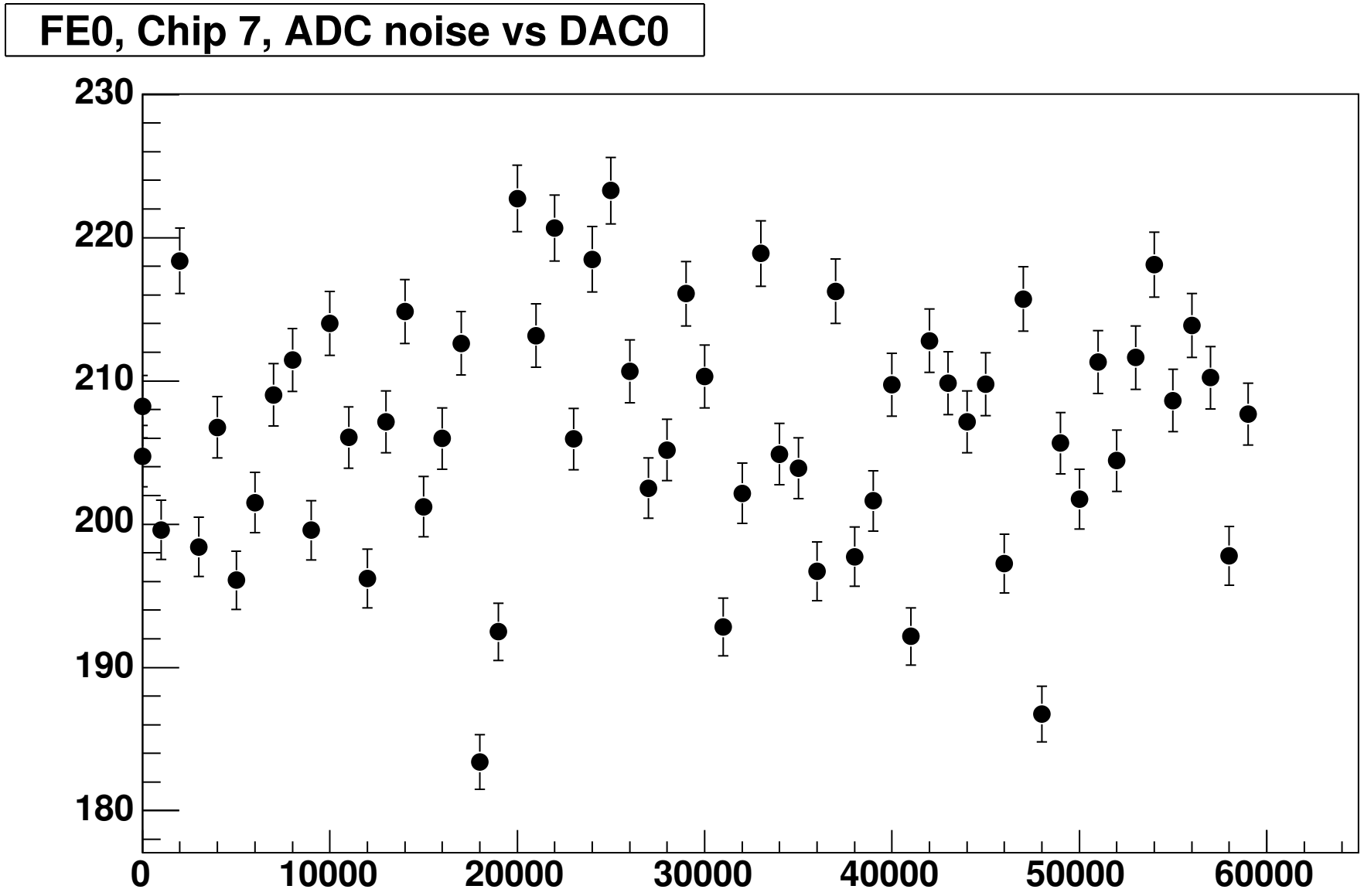


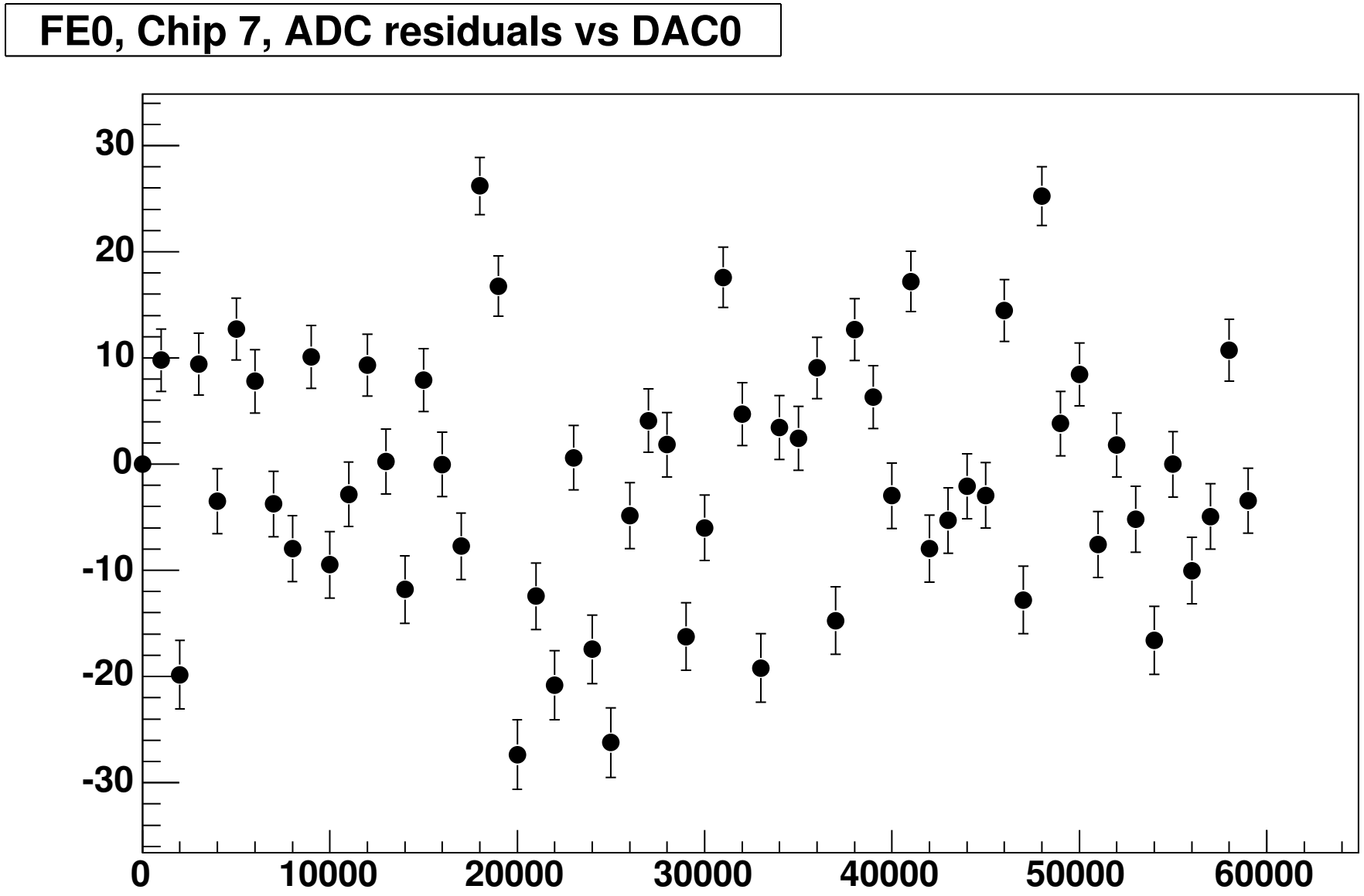

FE0, Chip 6, ADC mean vs DAC1
χ² / ndf 5.852e+04 / 57
p0 40.86 ± 0.0153
p1 0.451 ± 4.459e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

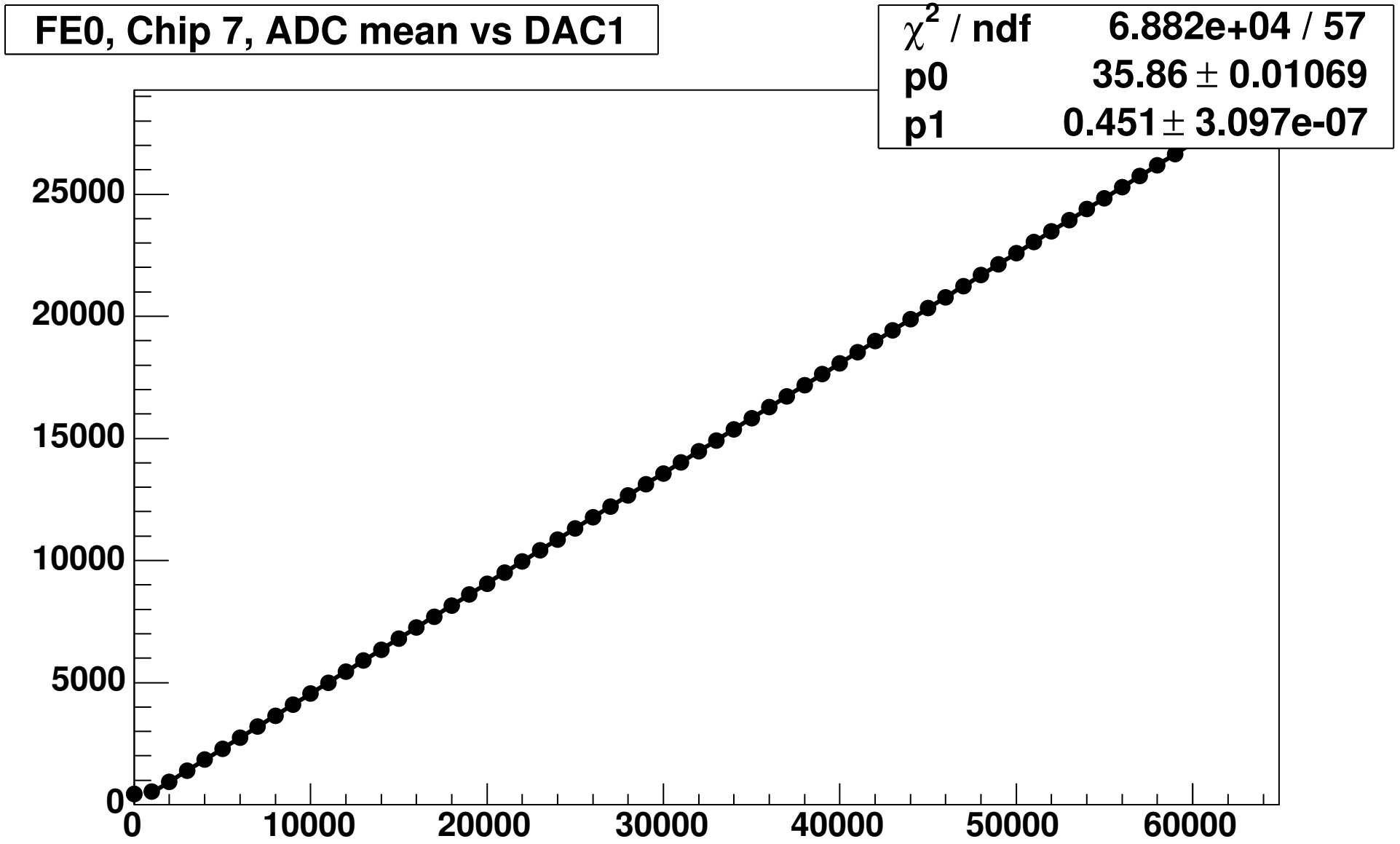

FE0, Chip 6, ADC noise vs DAC1
220
200
180
160
140
120
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
60000


FE0, Chip 6, ADC residuals vs DAC1
50
40
30
20
10
0
0
10000
20000
30000
40000
50000
60000

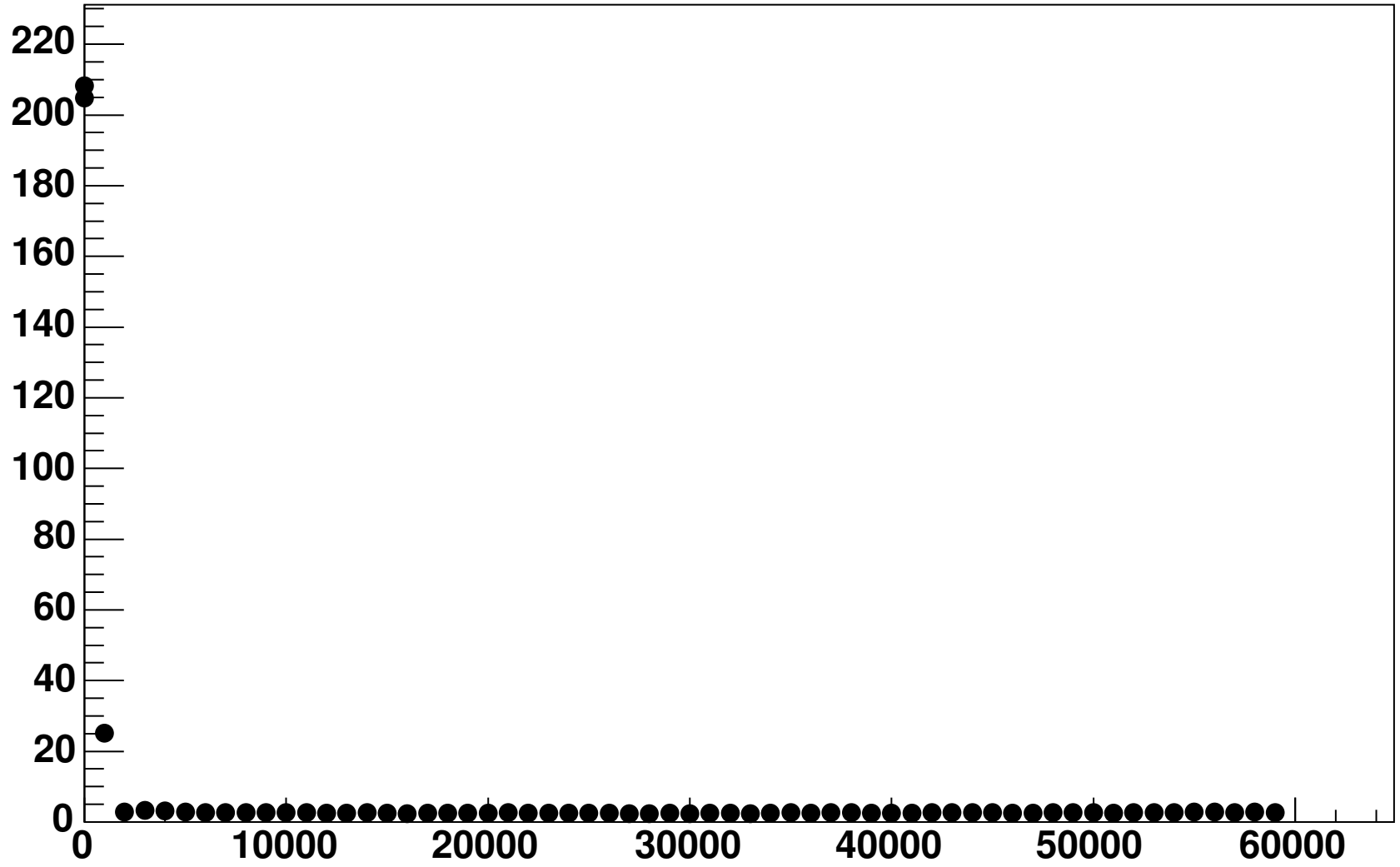

FE0, Chip 7, ADC mean vs DAC0
χ² / ndf 916.8 / 57
p0 439.8 ± 0.7984
p1 -4.434e-05 ± 2.317e-05
470
460
450
440
430
420
410
0
10000
20000
30000
40000
50000
60000

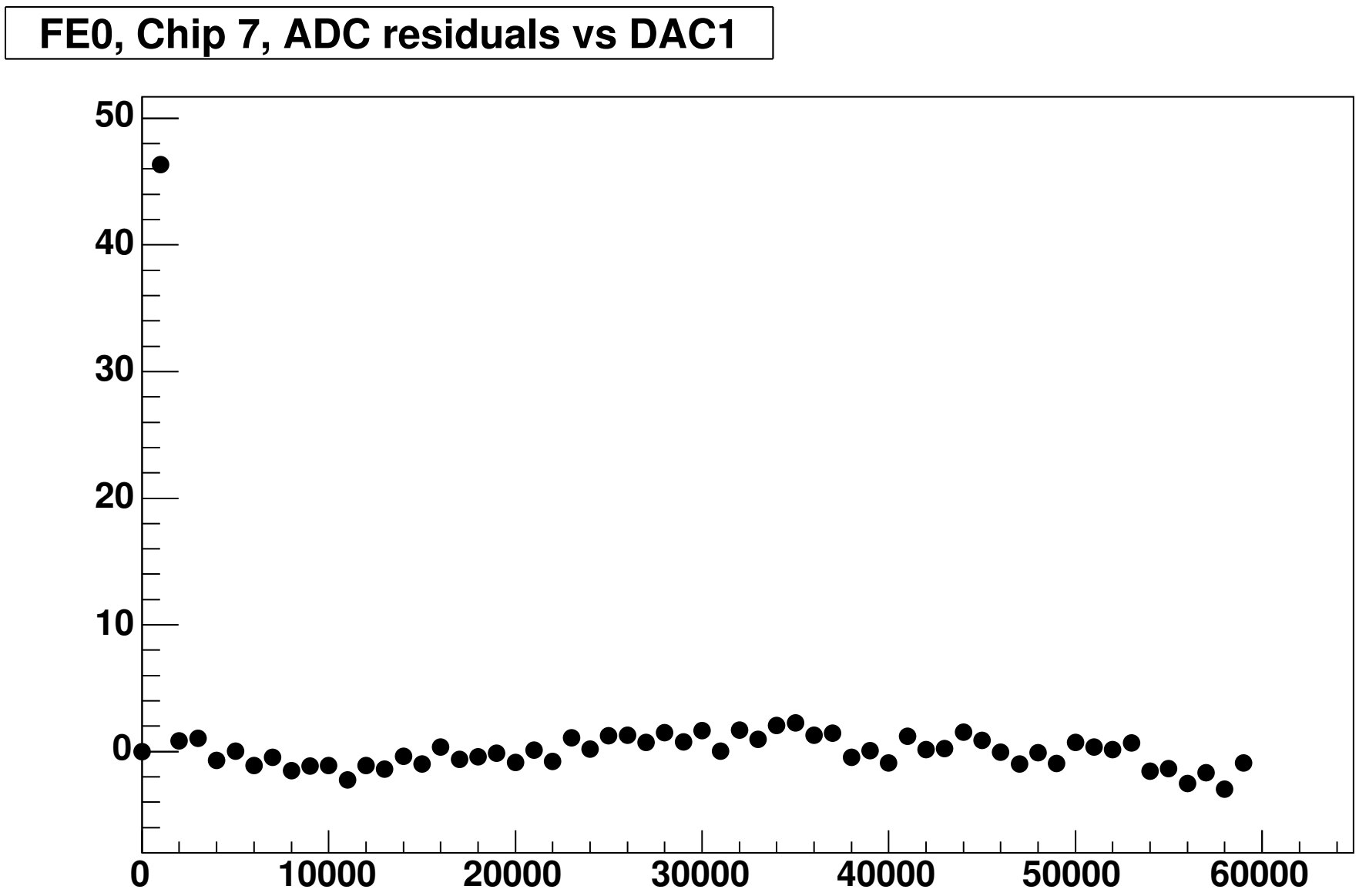

FE0, Chip 7, ADC noise vs DAC0
230
220
210
200
190
180
0
10000
20000
30000
40000
50000
60000

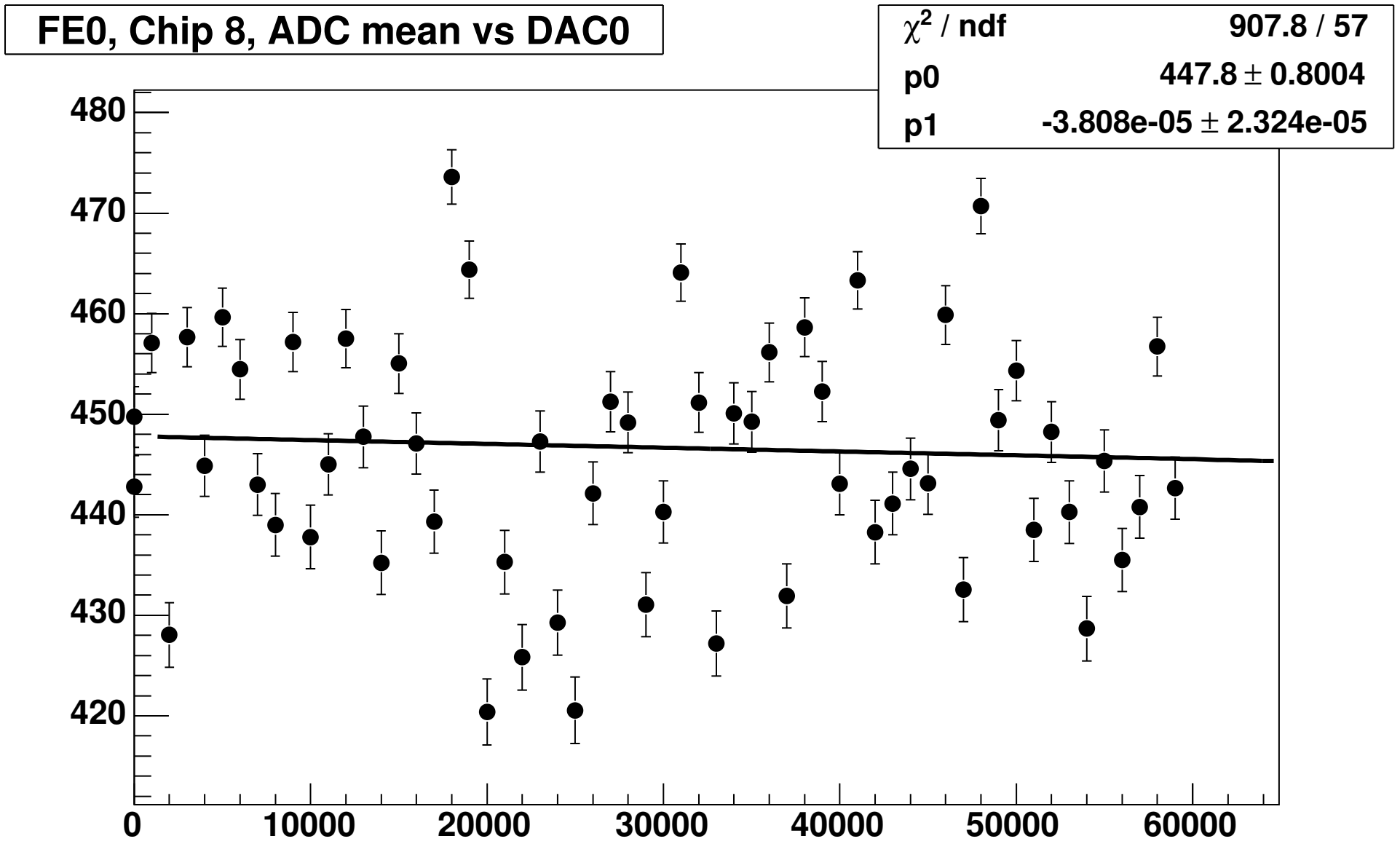

FE0, Chip 7, ADC residuals vs DAC0
30
20
10
0
-10
-20
-30
0
10000
20000
30000
40000
50000
60000

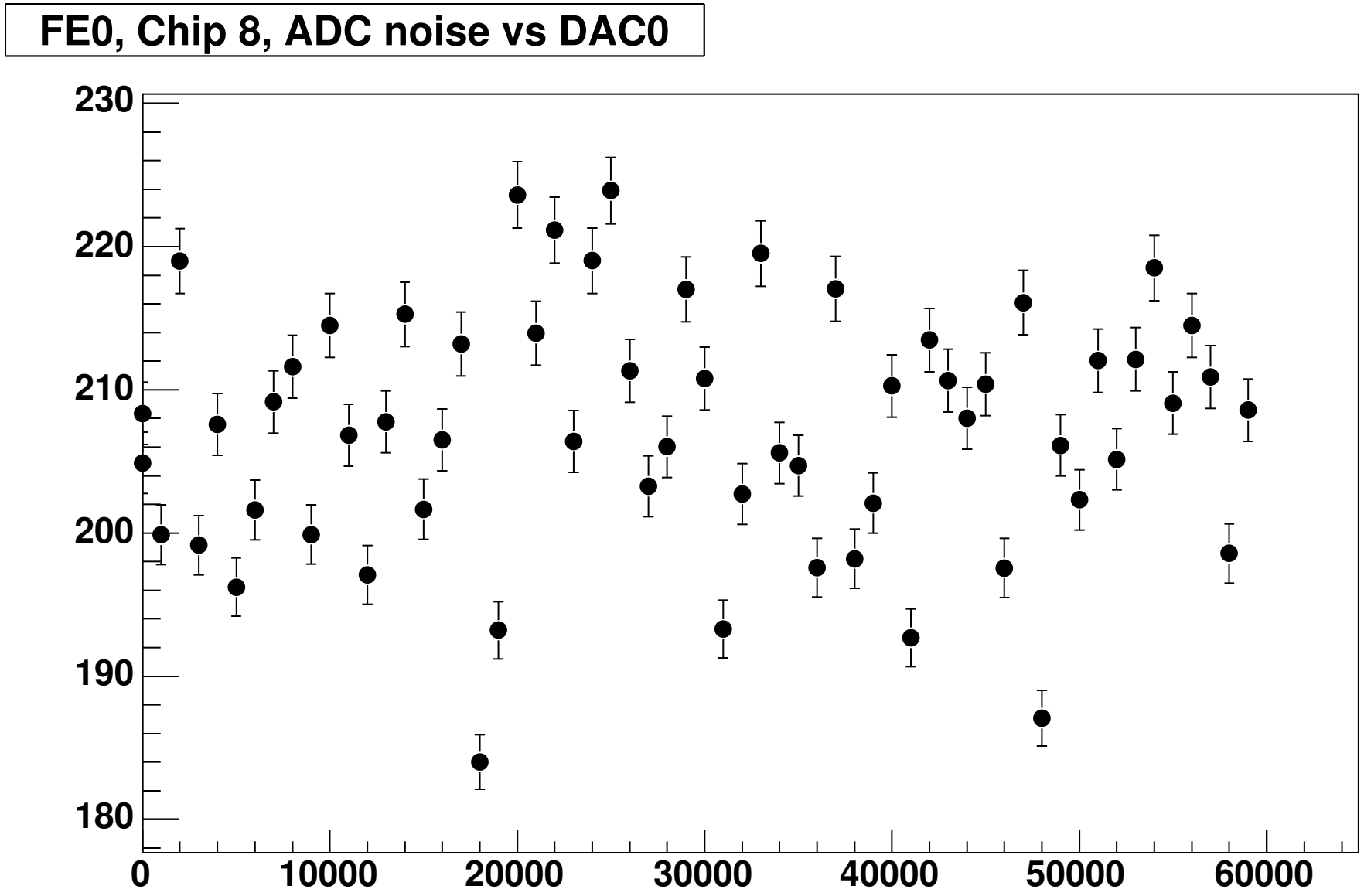

FE0, Chip 7, ADC mean vs DAC1
χ² / ndf 6.882e+04 / 57
p0 35.86 ± 0.01069
p1 0.451 ± 3.097e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

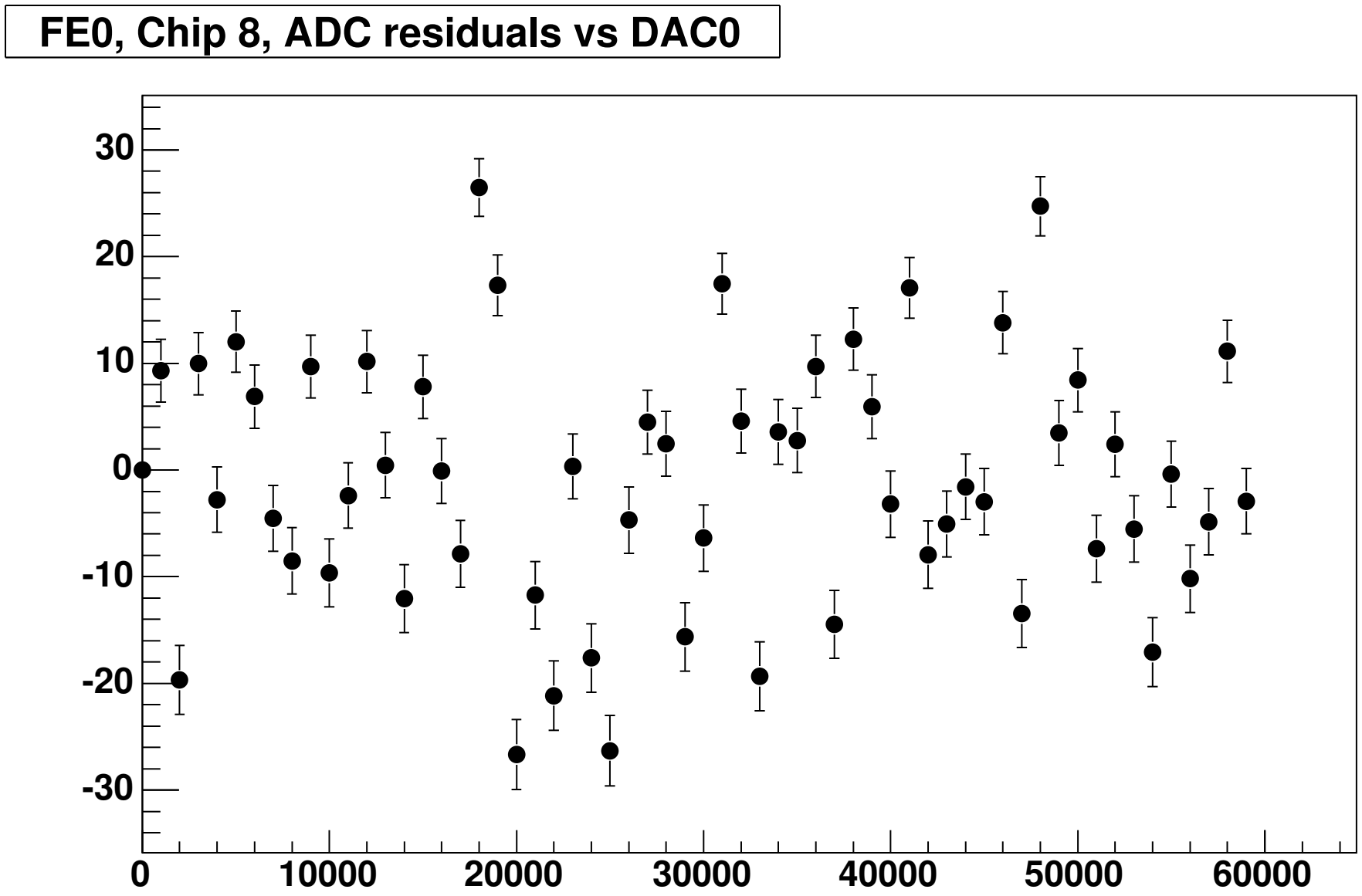
FE0, Chip 7, ADC noise vs DAC1

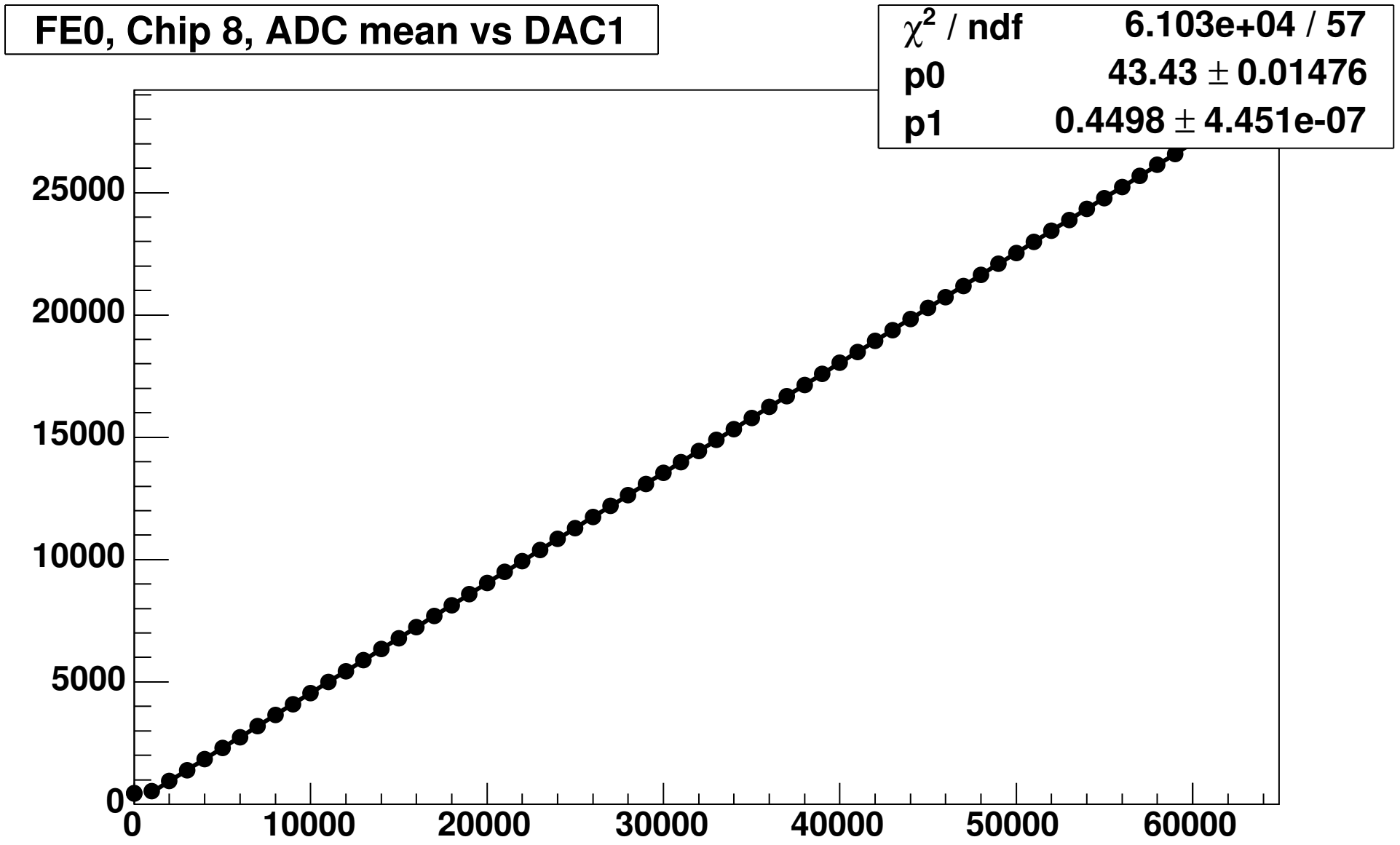



FE0, Chip 7, ADC residuals vs DAC1
50
40
30
20
10
0
0
10000
20000
30000
40000
50000
60000

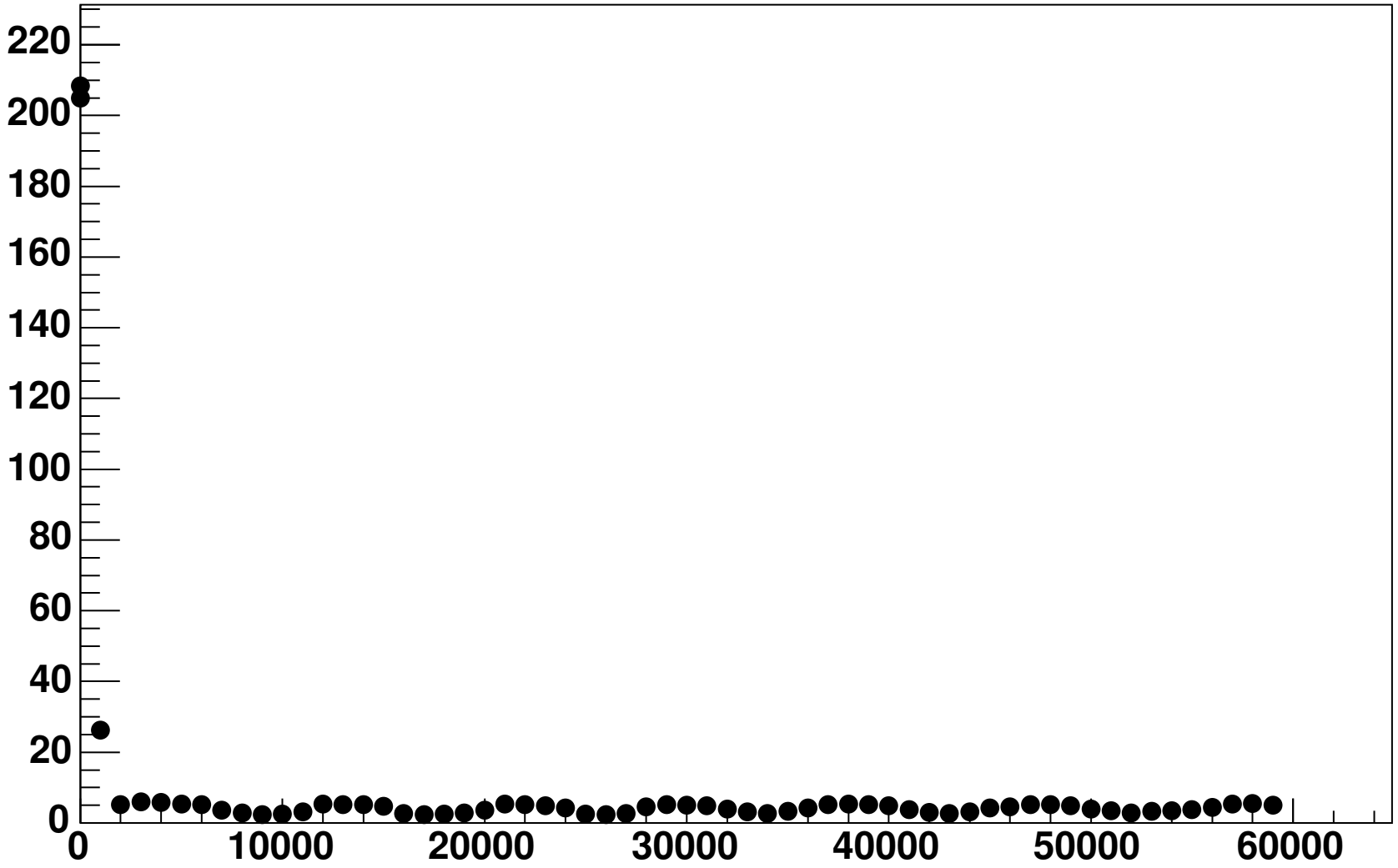

FE0, Chip 8, ADC mean vs DAC0
χ² / ndf 907.8 / 57
p0 447.8 ± 0.8004
p1 -3.808e-05 ± 2.324e-05
480
470
460
450
440
430
420
0
10000
20000
30000
40000
50000
60000

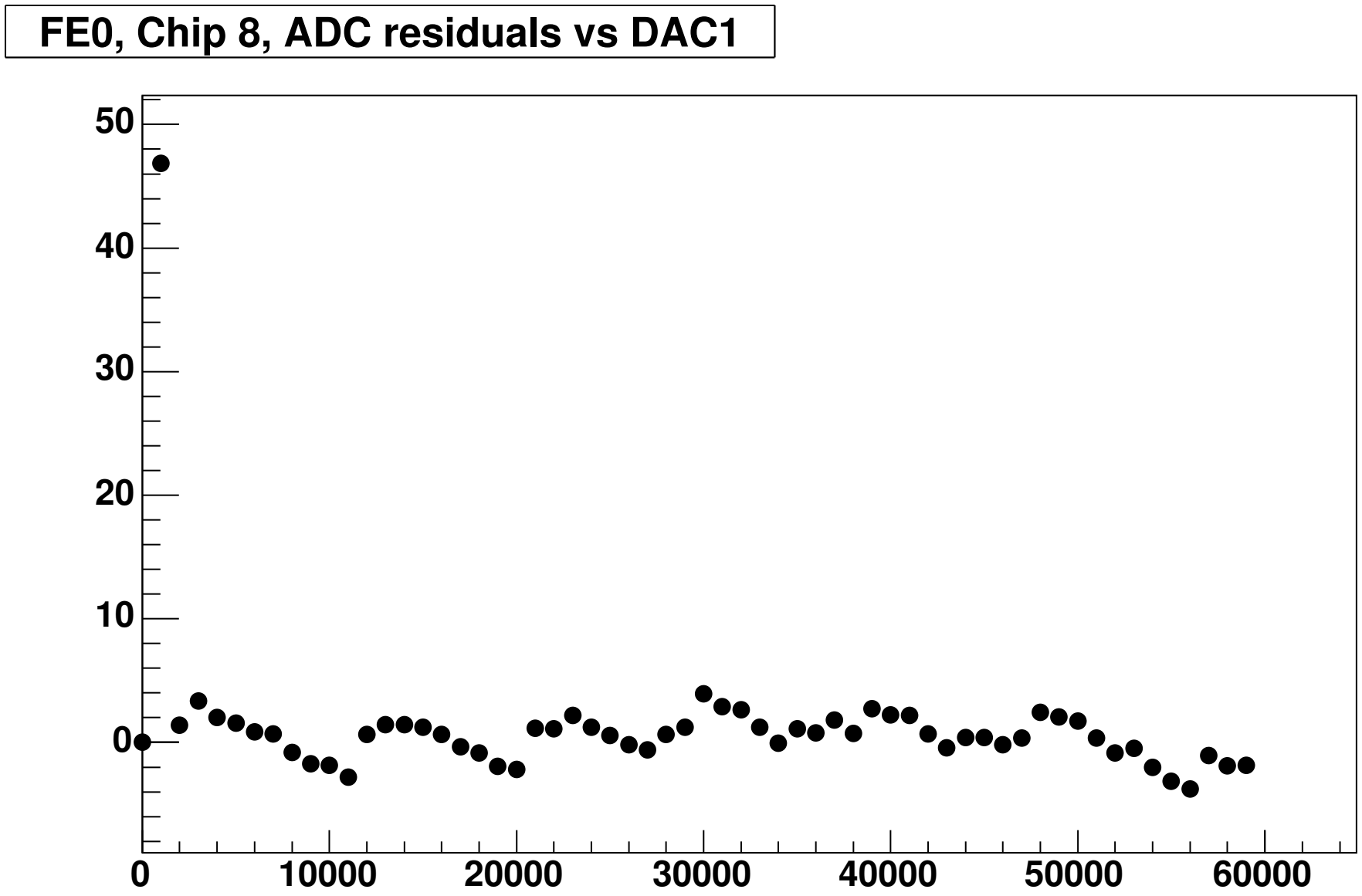

FE0, Chip 8, ADC noise vs DAC0
230
220
210
200
190
180
0
10000
20000
30000
40000
50000
60000

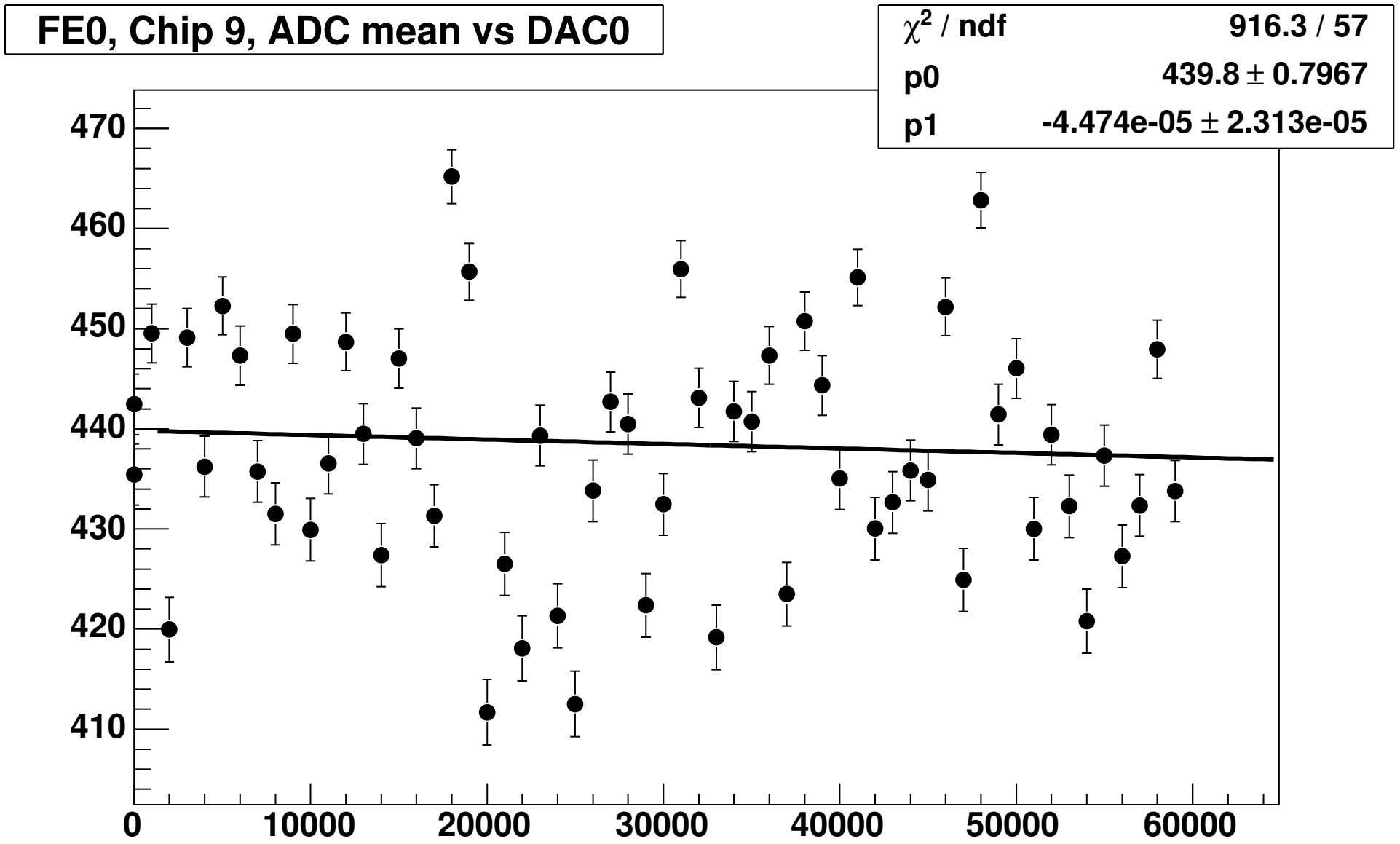

FE0, Chip 8, ADC residuals vs DAC0
30
20
10
0
-10
-20
-30
0
10000
20000
30000
40000
50000
60000

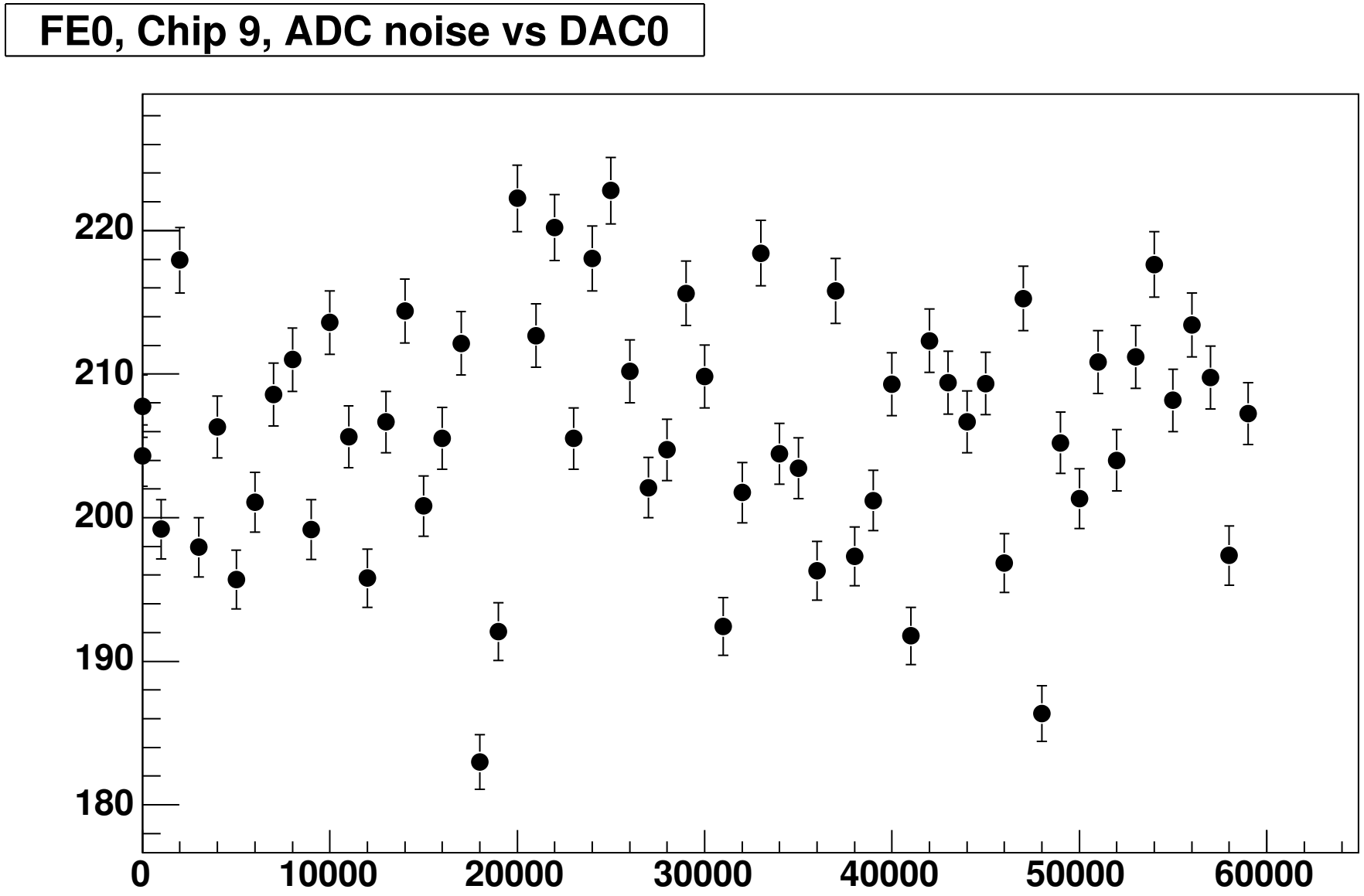

FE0, Chip 8, ADC mean vs DAC1
χ² / ndf 6.103e+04 / 57
p0 43.43 ± 0.01476
p1 0.4498 ± 4.451e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

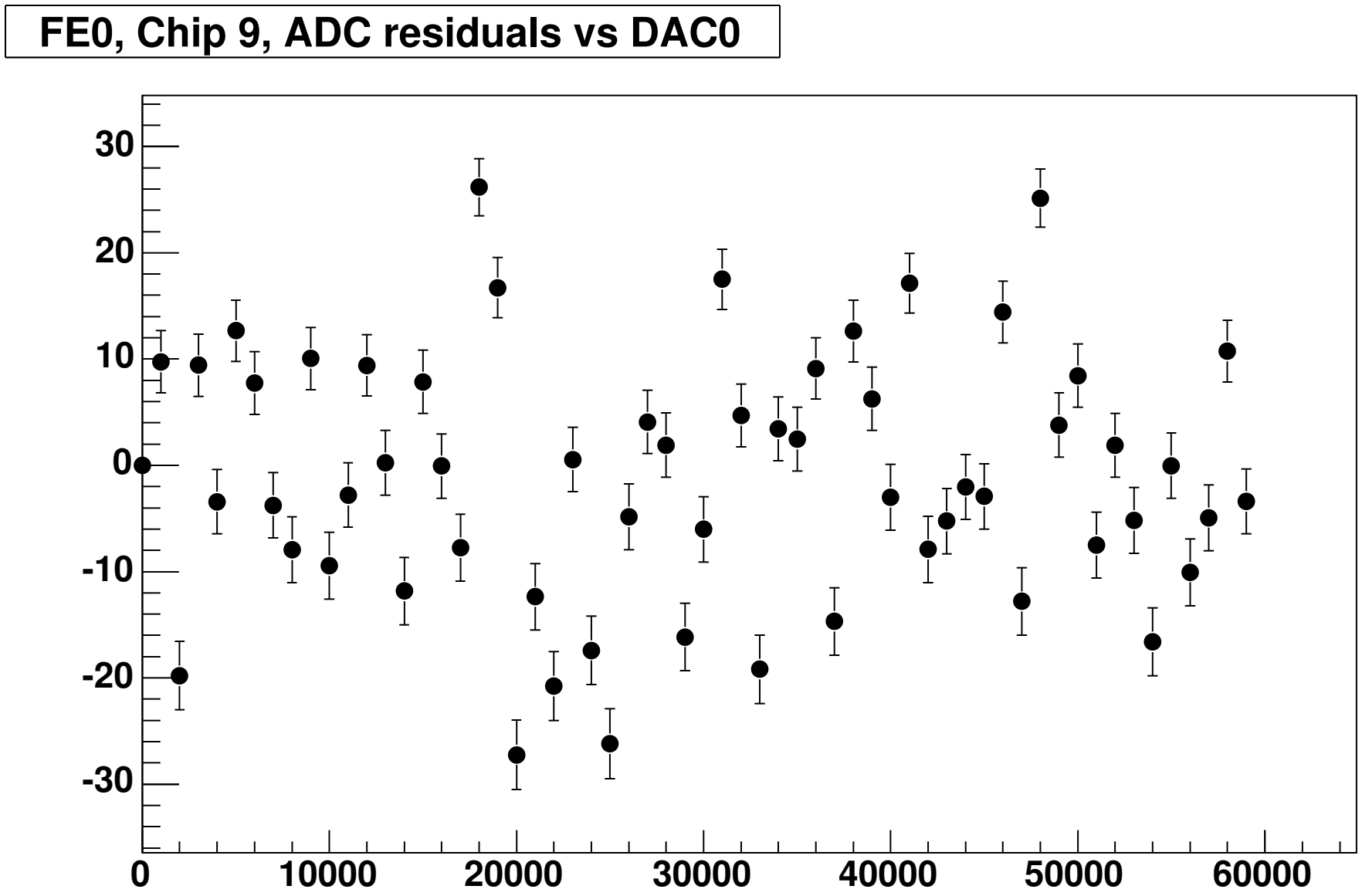
FE0, Chip 8, ADC noise vs DAC1

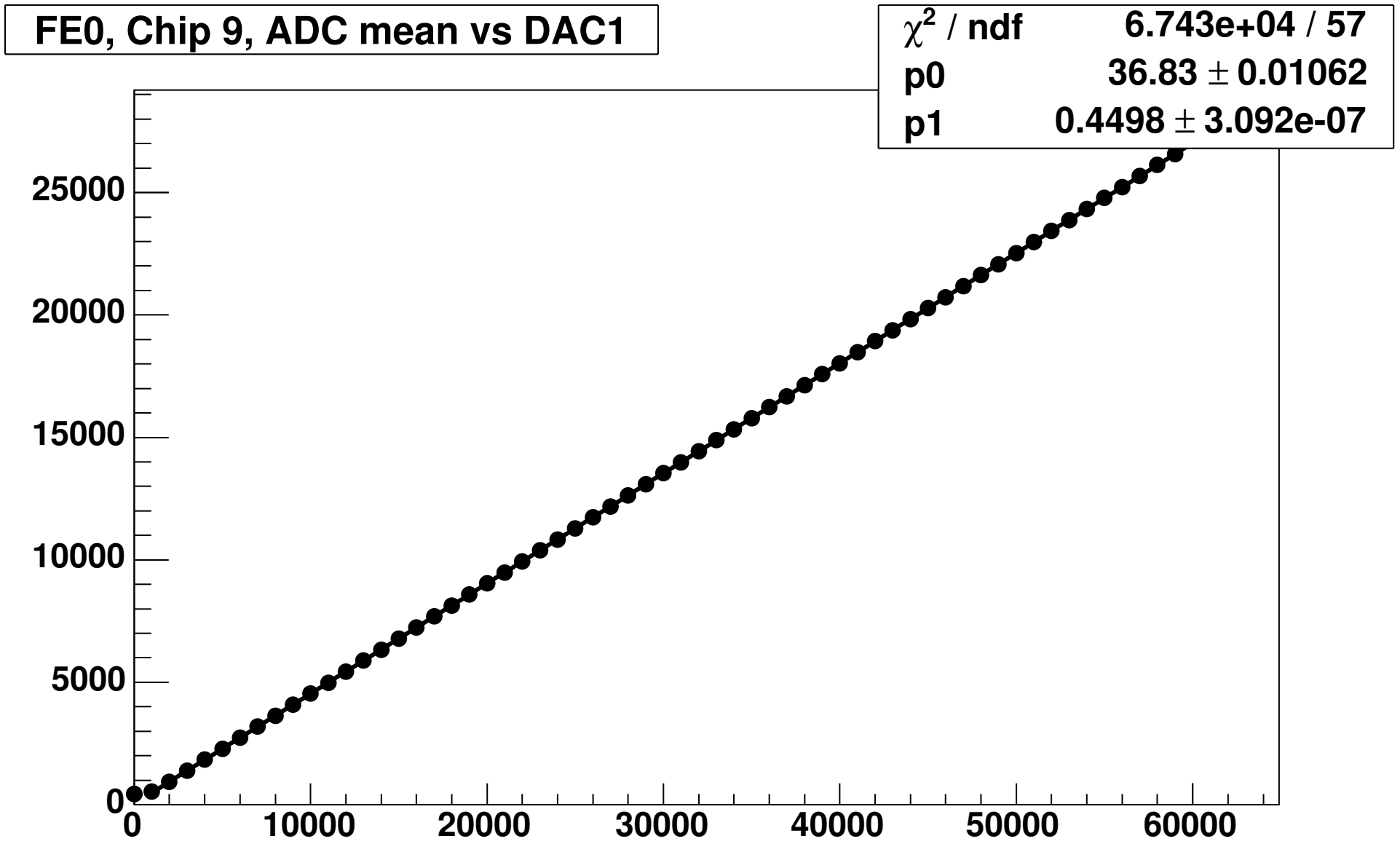



FE0, Chip 8, ADC residuals vs DAC1
50
40
30
20
10
0
0
10000
20000
30000
40000
50000
60000

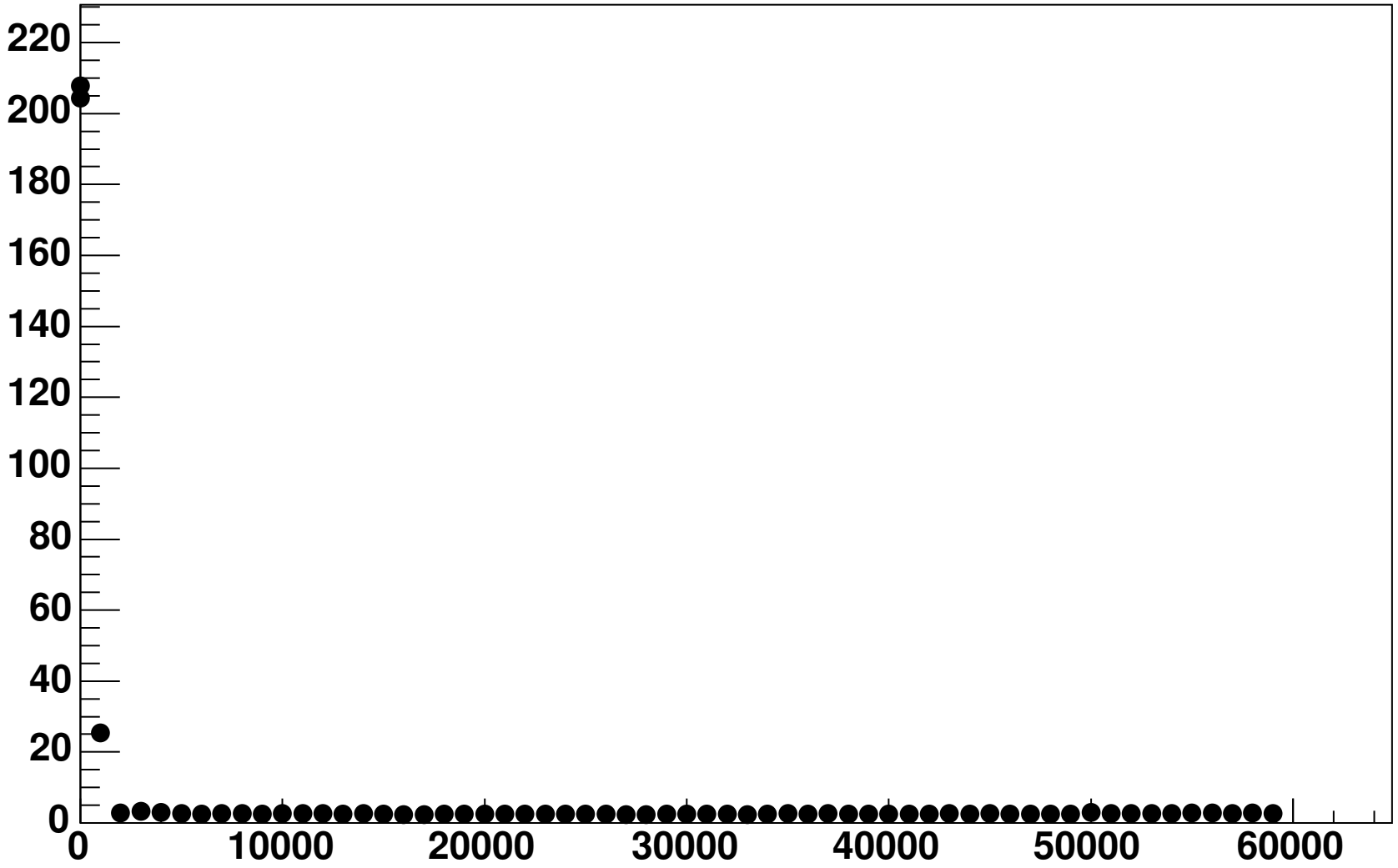

FE0, Chip 9, ADC mean vs DAC0
χ² / ndf 916.3 / 57
p0 439.8 ± 0.7967
p1 -4.474e-05 ± 2.313e-05
470
460
450
440
430
420
410
0
10000
20000
30000
40000
50000
60000

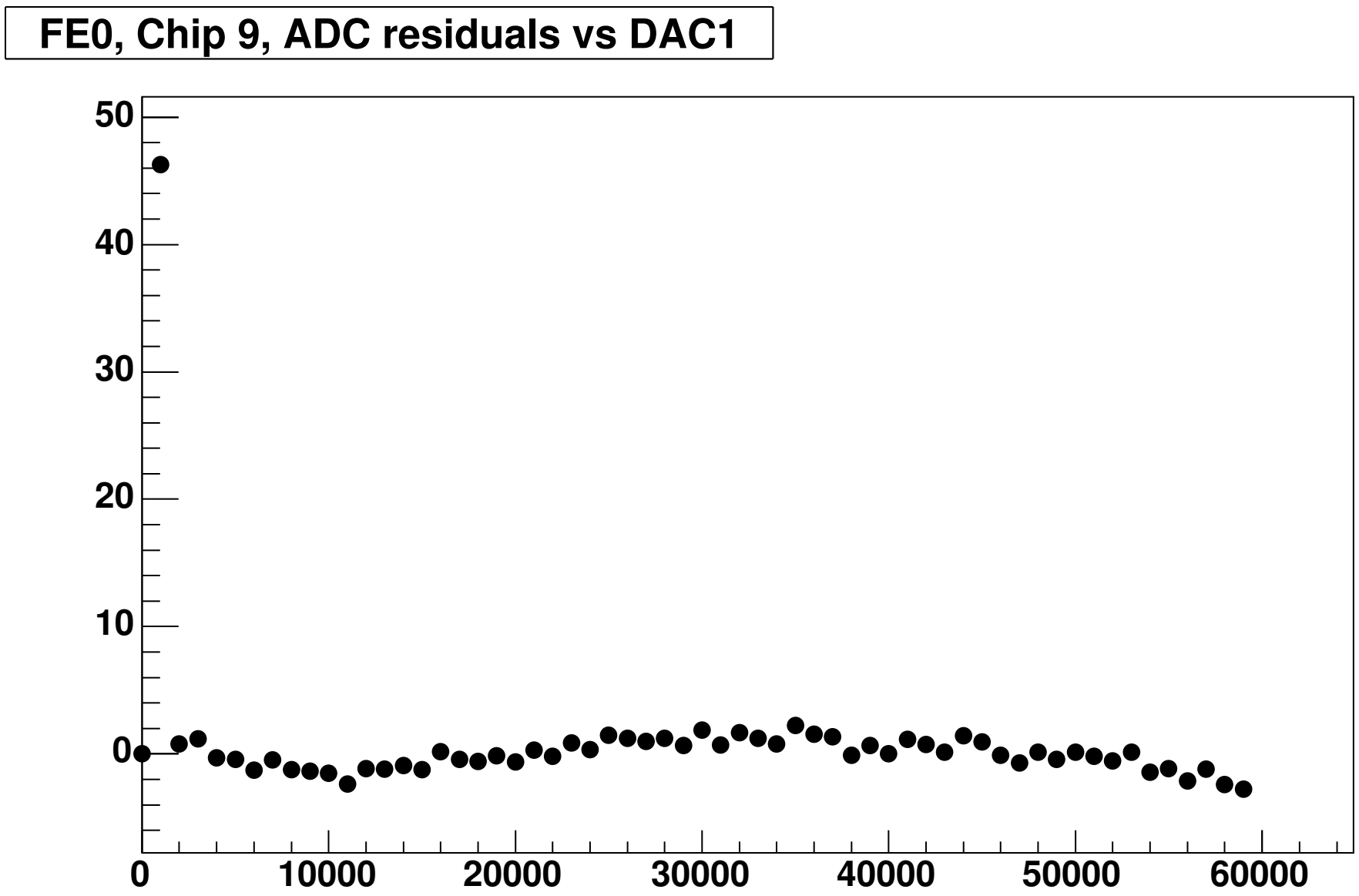

FE0, Chip 9, ADC noise vs DAC0
220
210
200
190
180
0
10000
20000
30000
40000
50000
60000

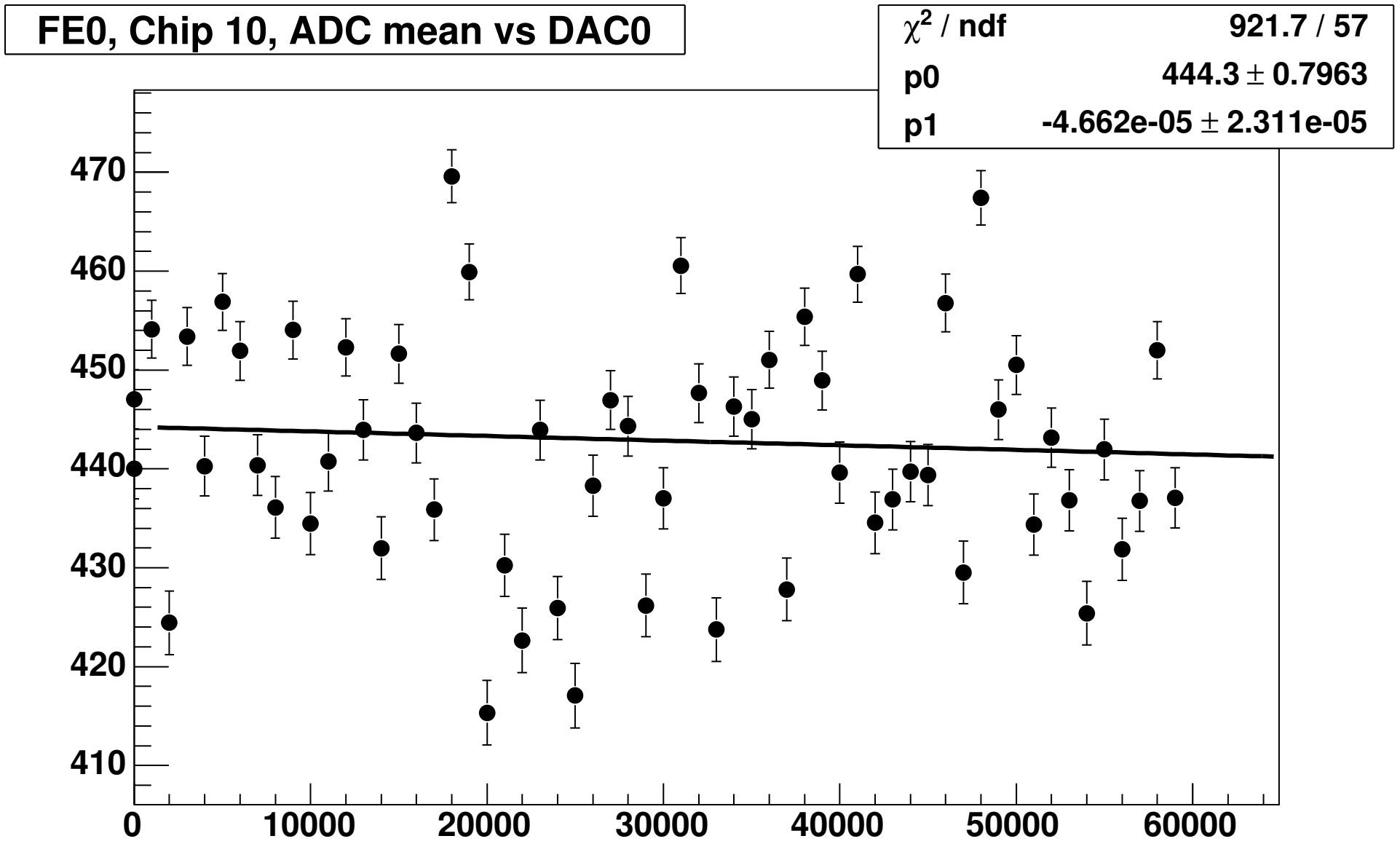

FE0, Chip 9, ADC residuals vs DAC0
30
20
10
0
-10
-20
-30
0
10000
20000
30000
40000
50000
60000

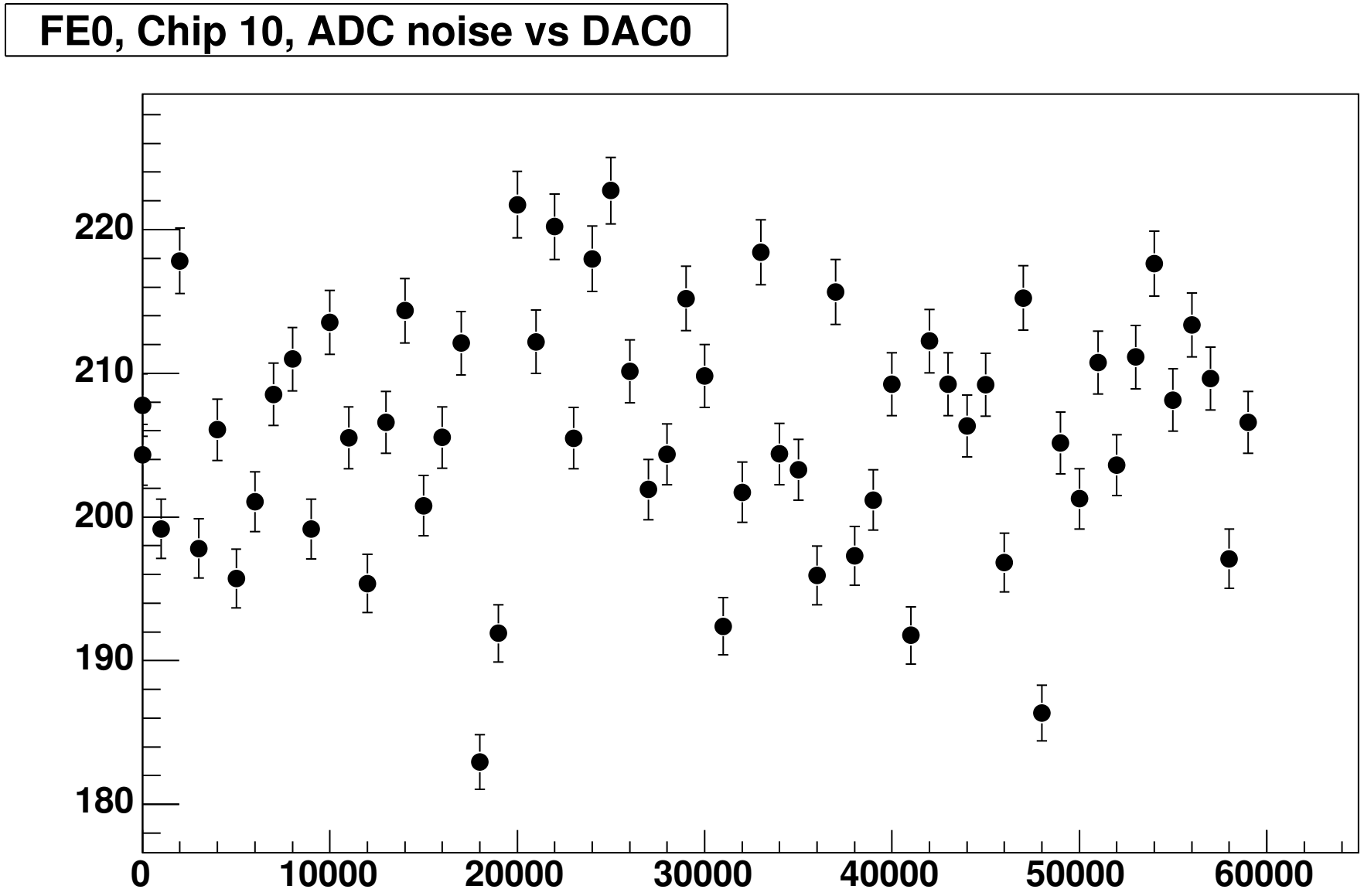

FE0, Chip 9, ADC mean vs DAC1
χ² / ndf 6.743e+04 / 57
p0 36.83 ± 0.01062
p1 0.4498 ± 3.092e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

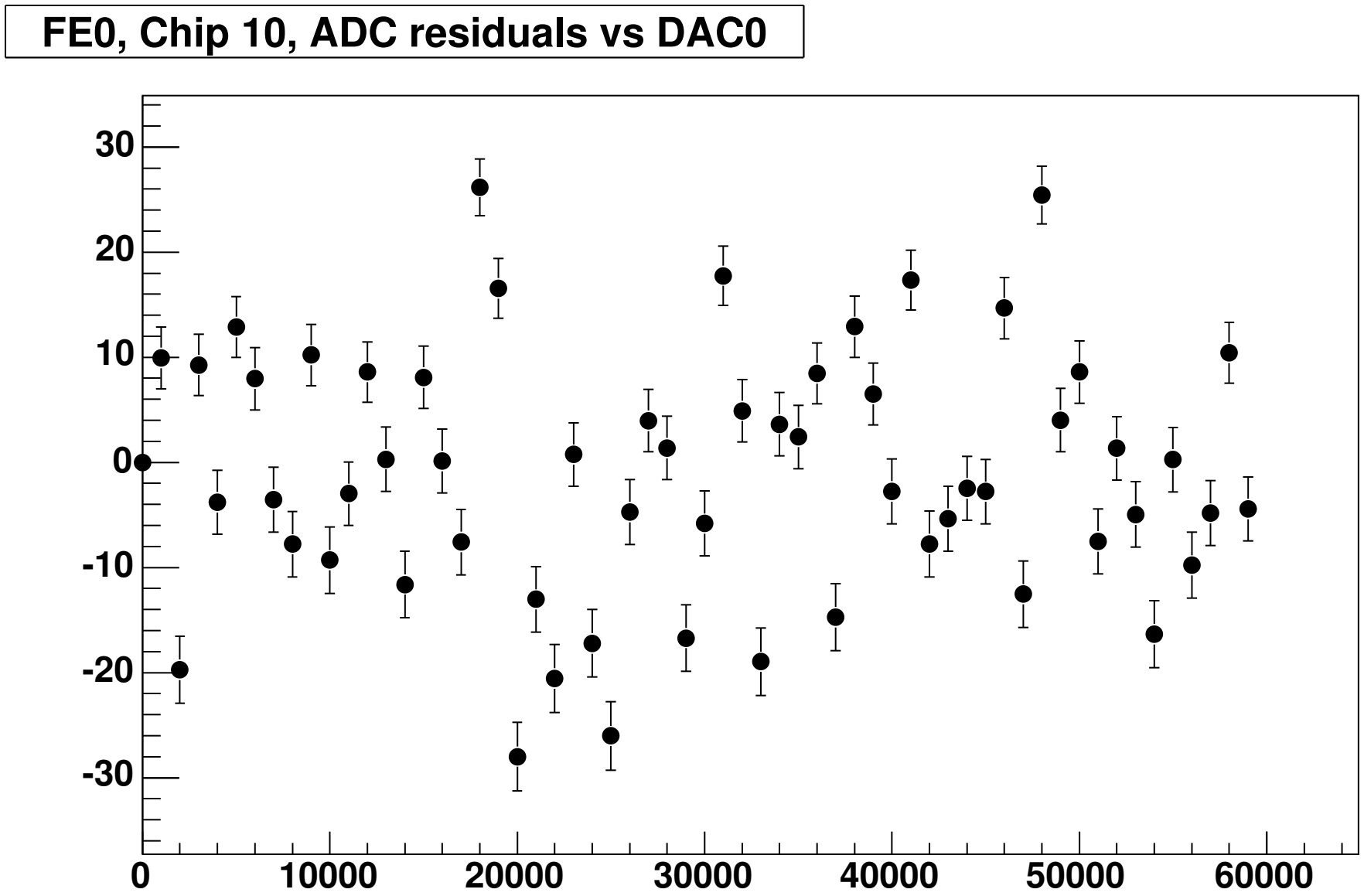
FE0, Chip 9, ADC noise vs DAC1

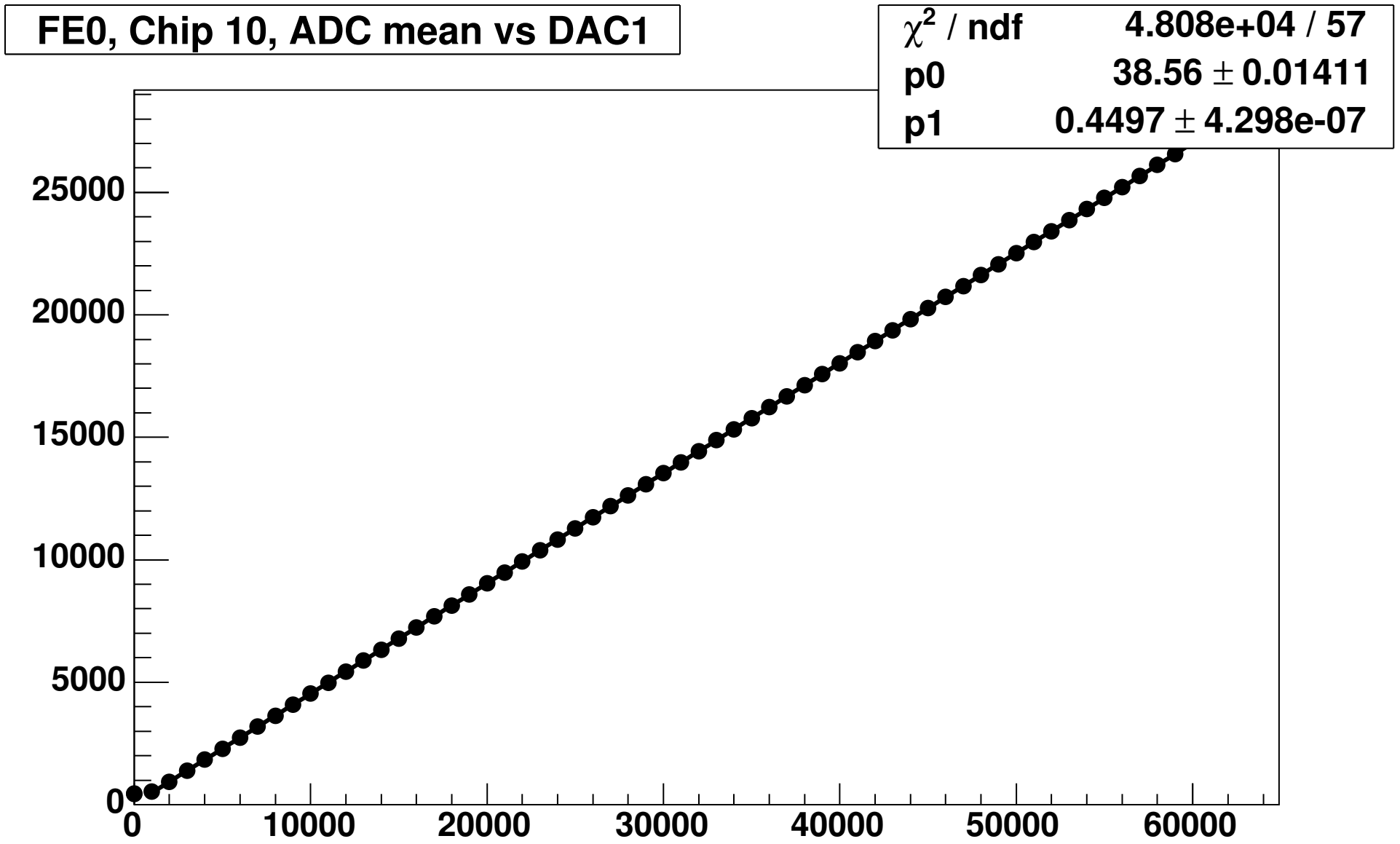


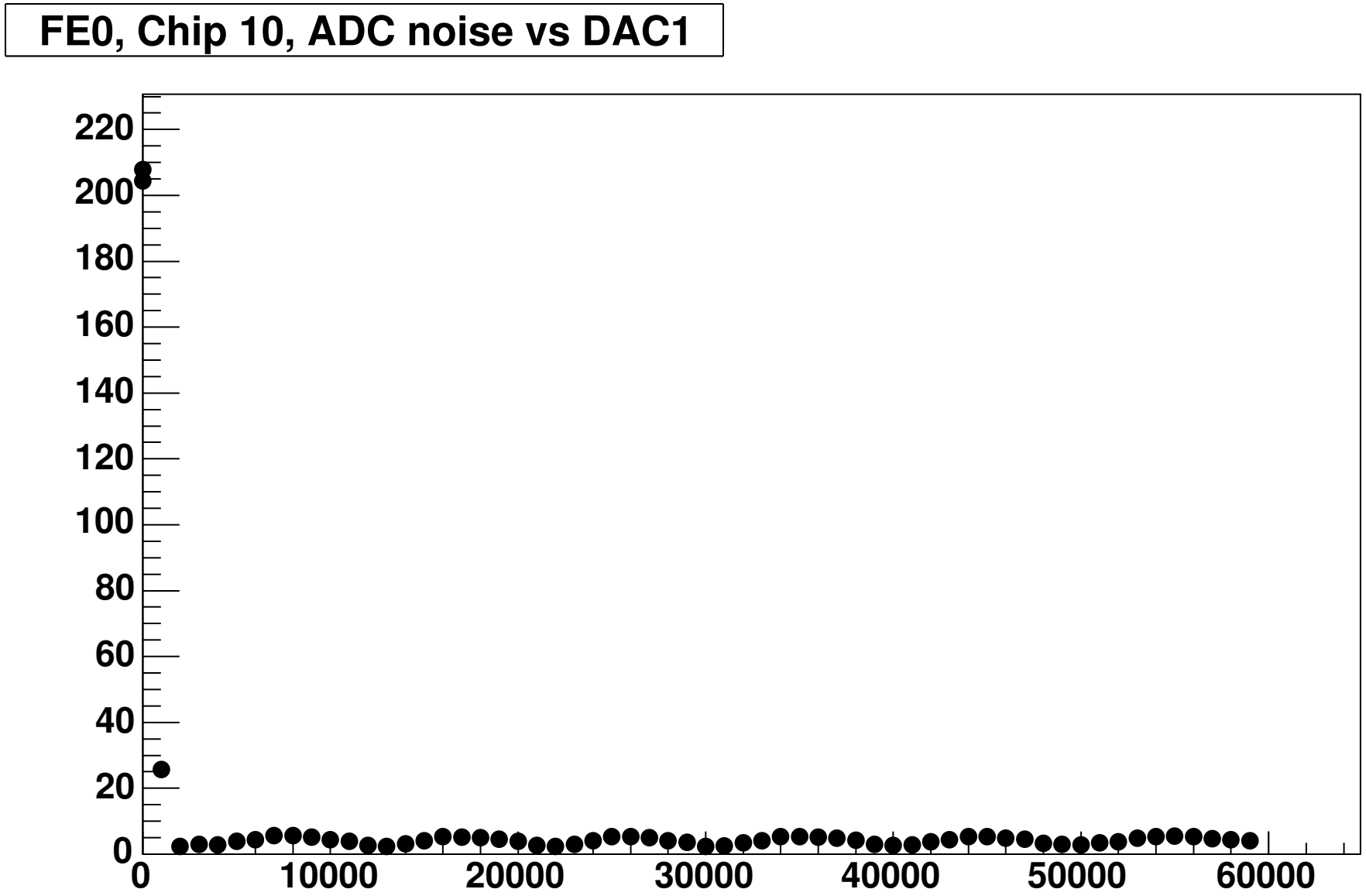

FE0, Chip 9, ADC residuals vs DAC1
50
40
30
20
10
0
0
10000
20000
30000
40000
50000
60000

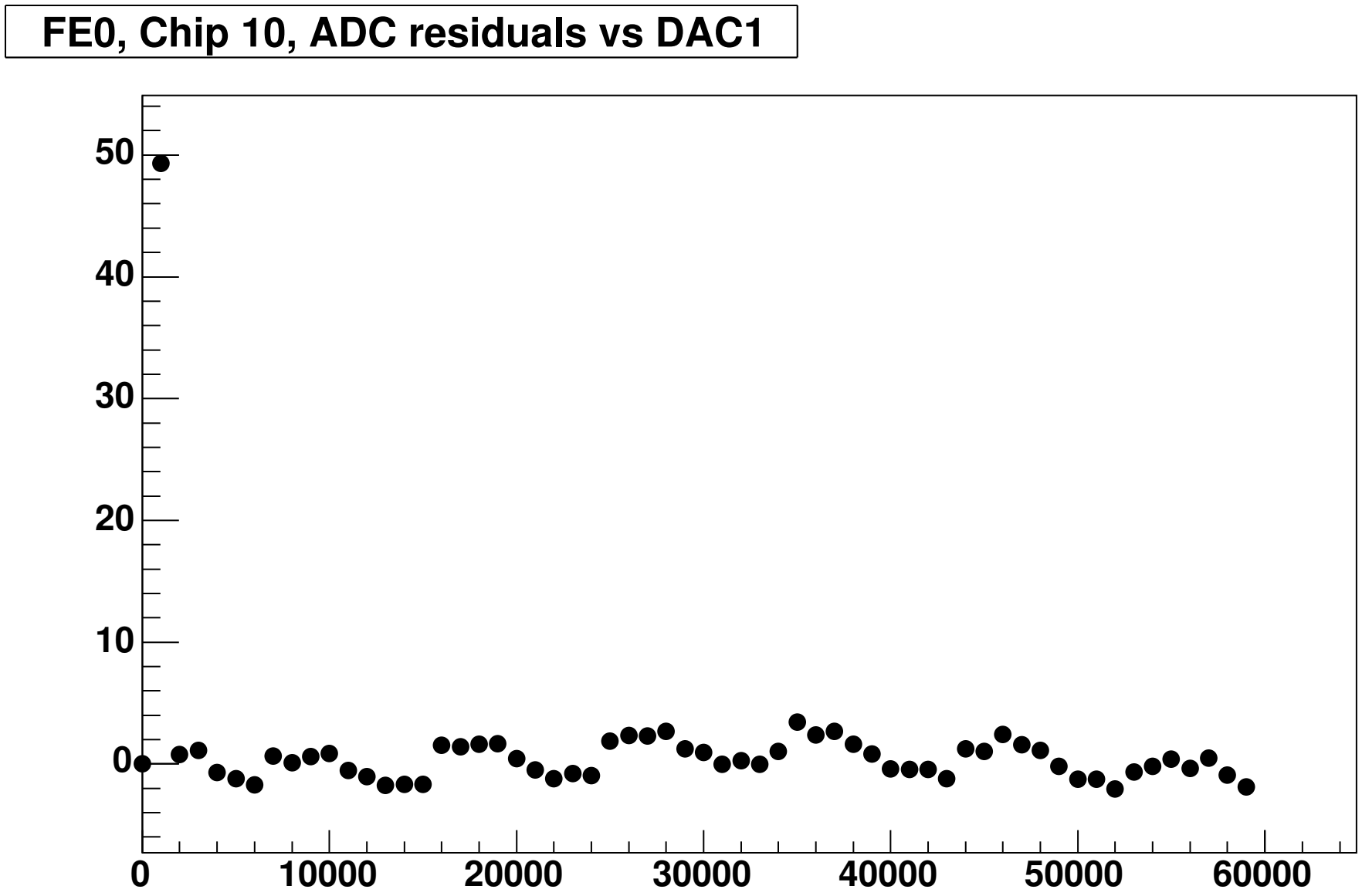

FE0, Chip 10, ADC mean vs DAC0
χ² / ndf 921.7 / 57
p0 444.3 ± 0.7963
p1 -4.662e-05 ± 2.311e-05
470
460
450
440
430
420
410
0
10000
20000
30000
40000
50000
60000

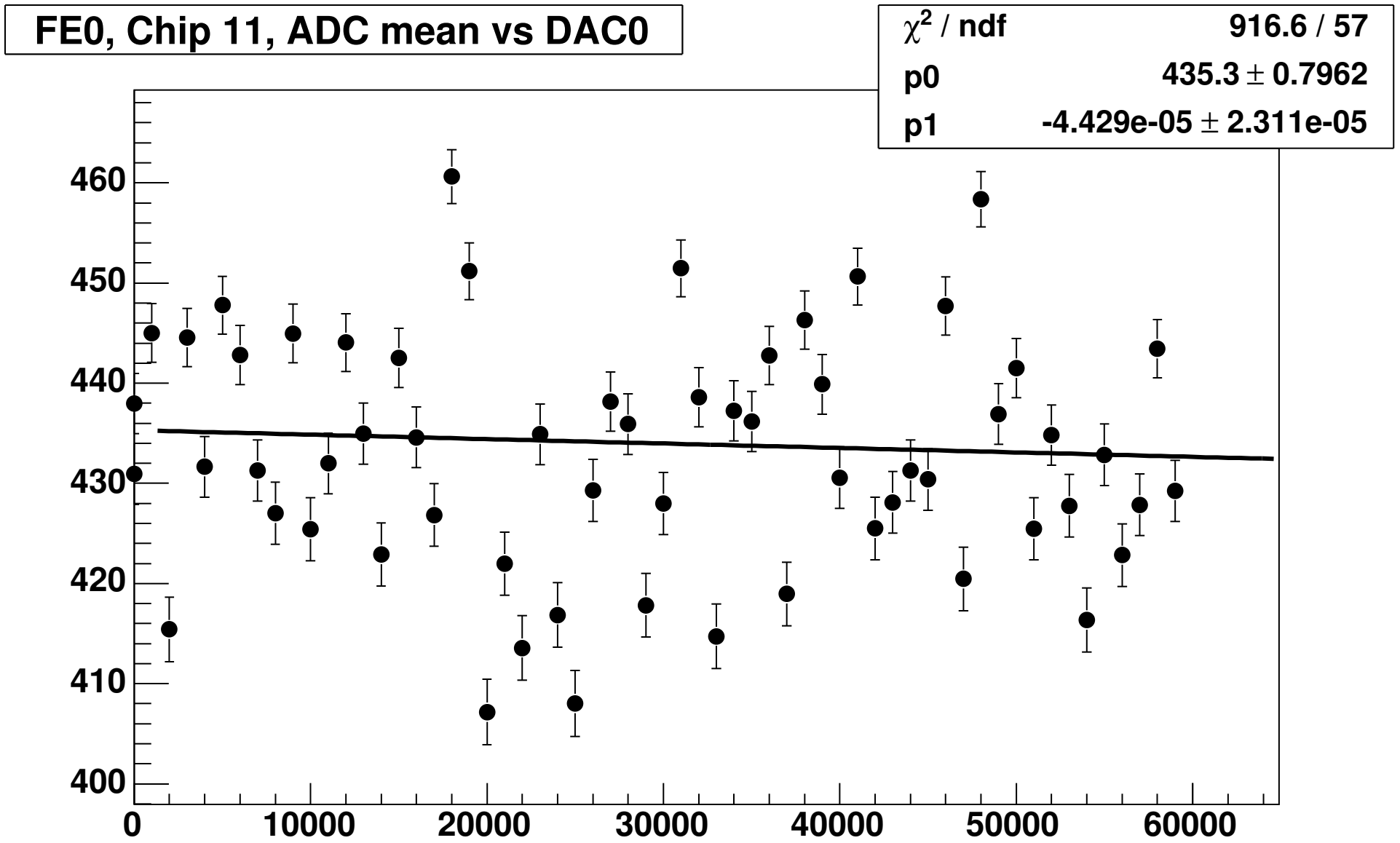

FE0, Chip 10, ADC noise vs DAC0
220
210
200
190
180
0
10000
20000
30000
40000
50000
60000

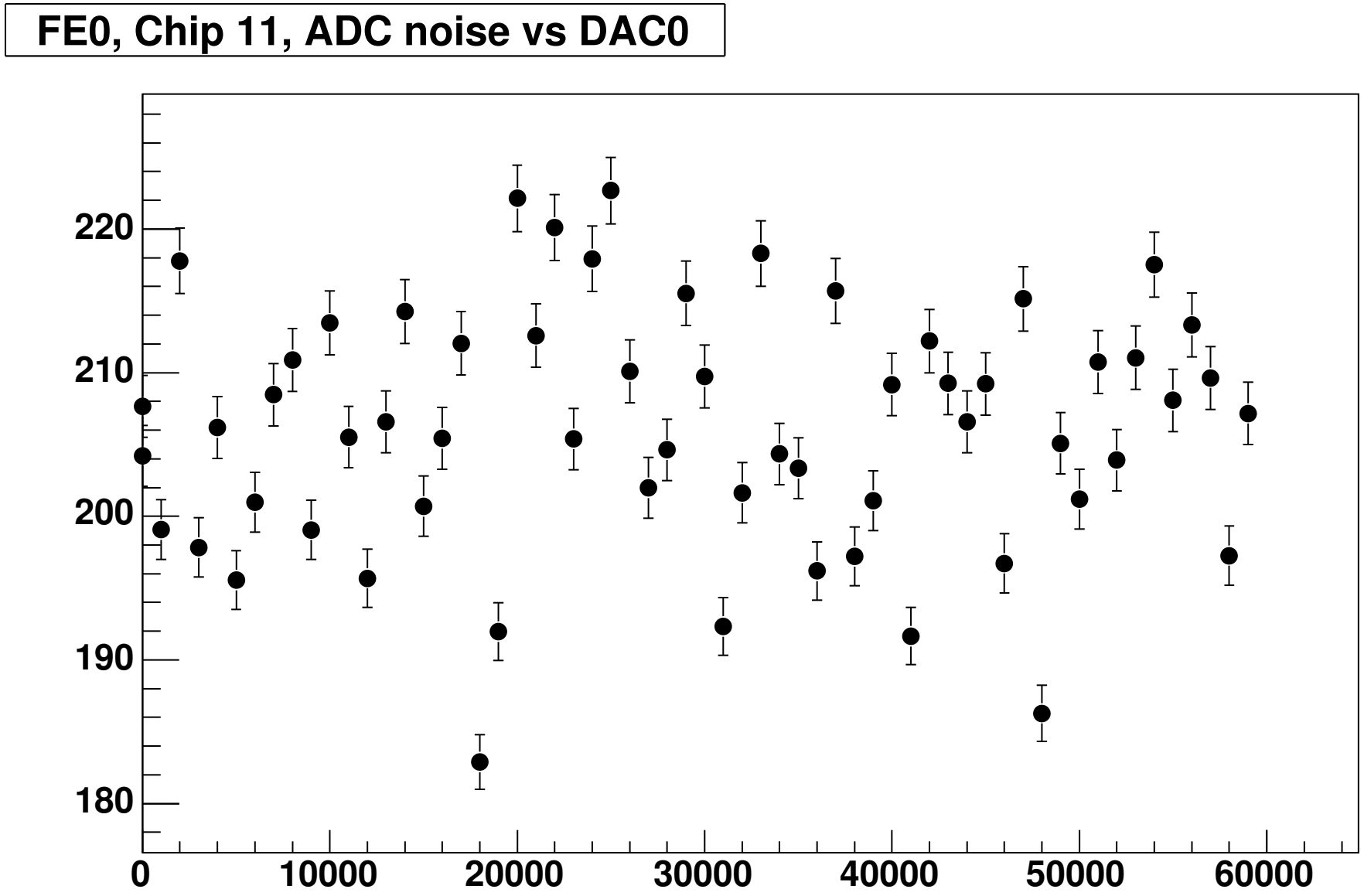

FE0, Chip 10, ADC residuals vs DAC0
30
20
10
0
-10
-20
-30
0
10000
20000
30000
40000
50000
60000

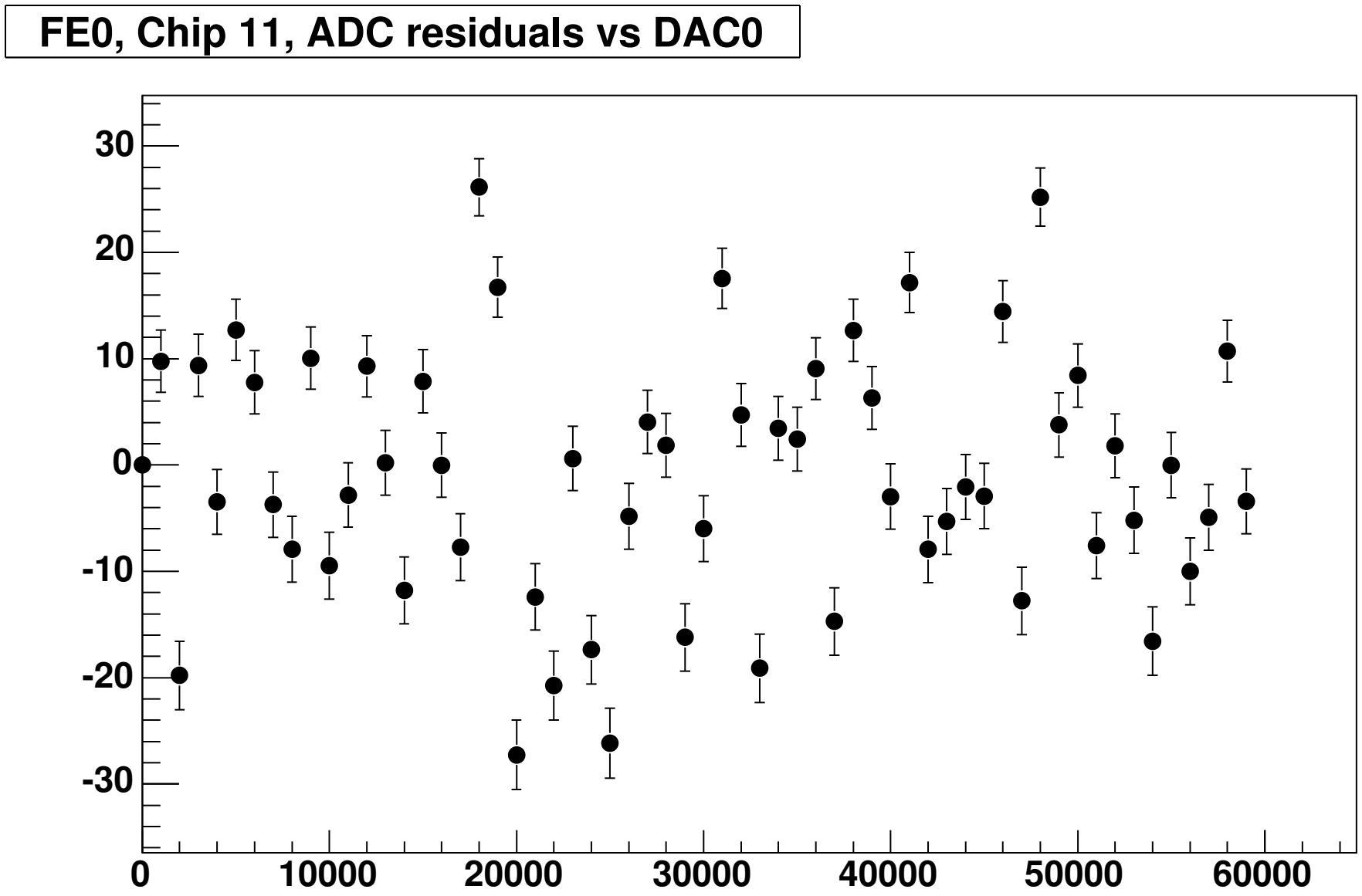

FE0, Chip 10, ADC mean vs DAC1
χ² / ndf 4.808e+04 / 57
p0 38.56 ± 0.01411
p1 0.4497 ± 4.298e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

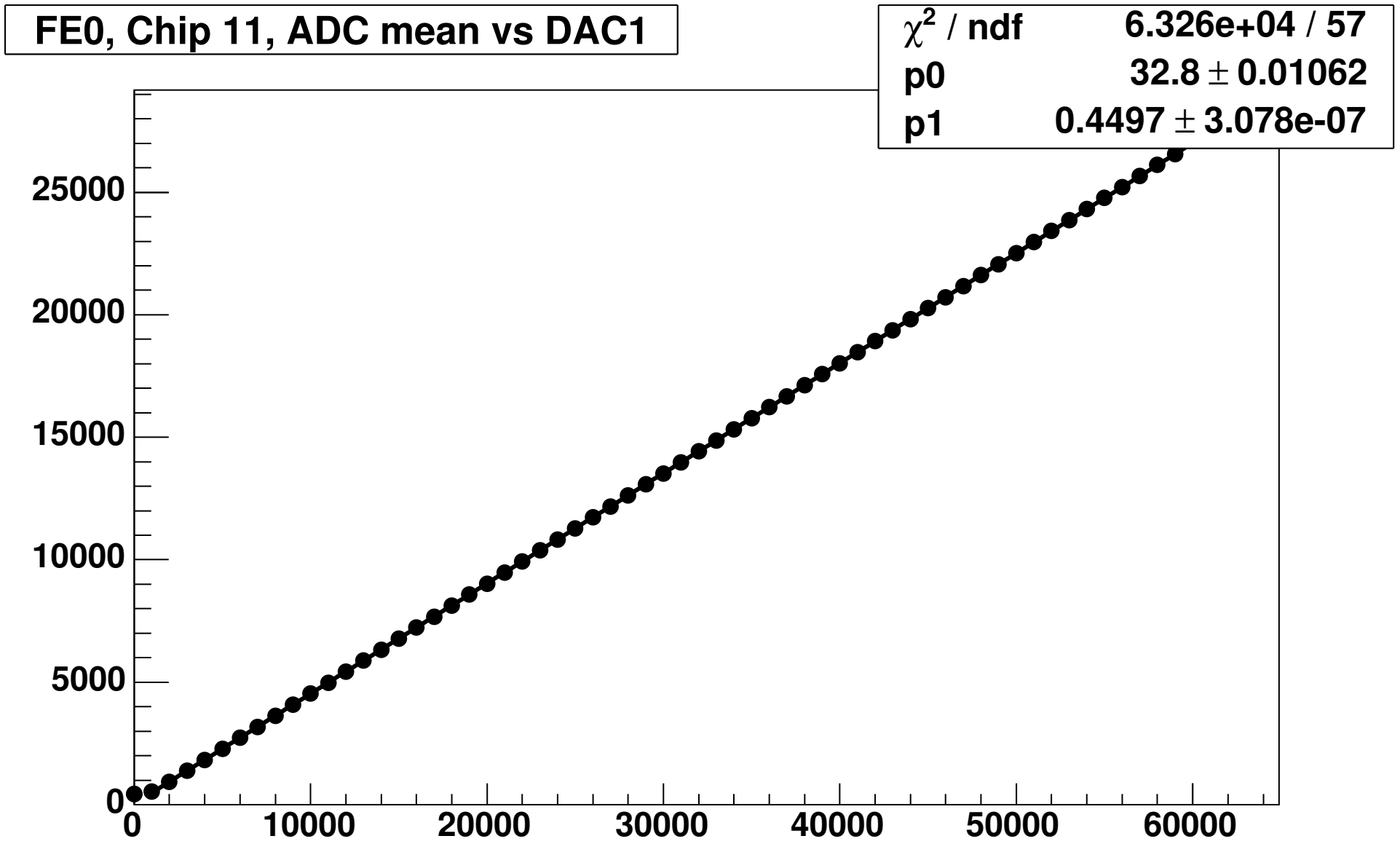

FE0, Chip 10, ADC noise vs DAC1
220
200
180
160
140
120
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
60000

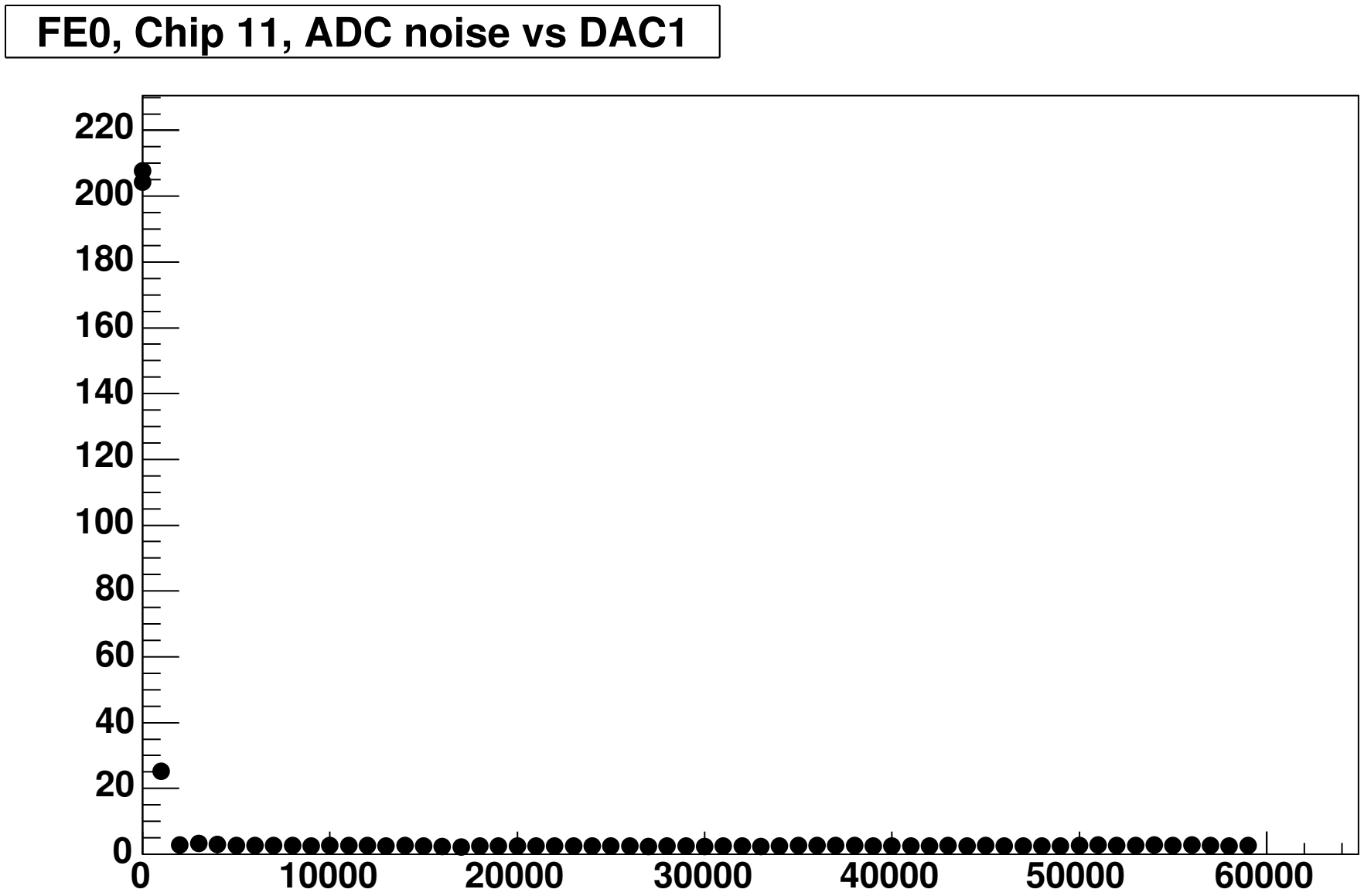

FE0, Chip 10, ADC residuals vs DAC1
50
40
30
20
10
0
0
10000
20000
30000
40000
50000
60000

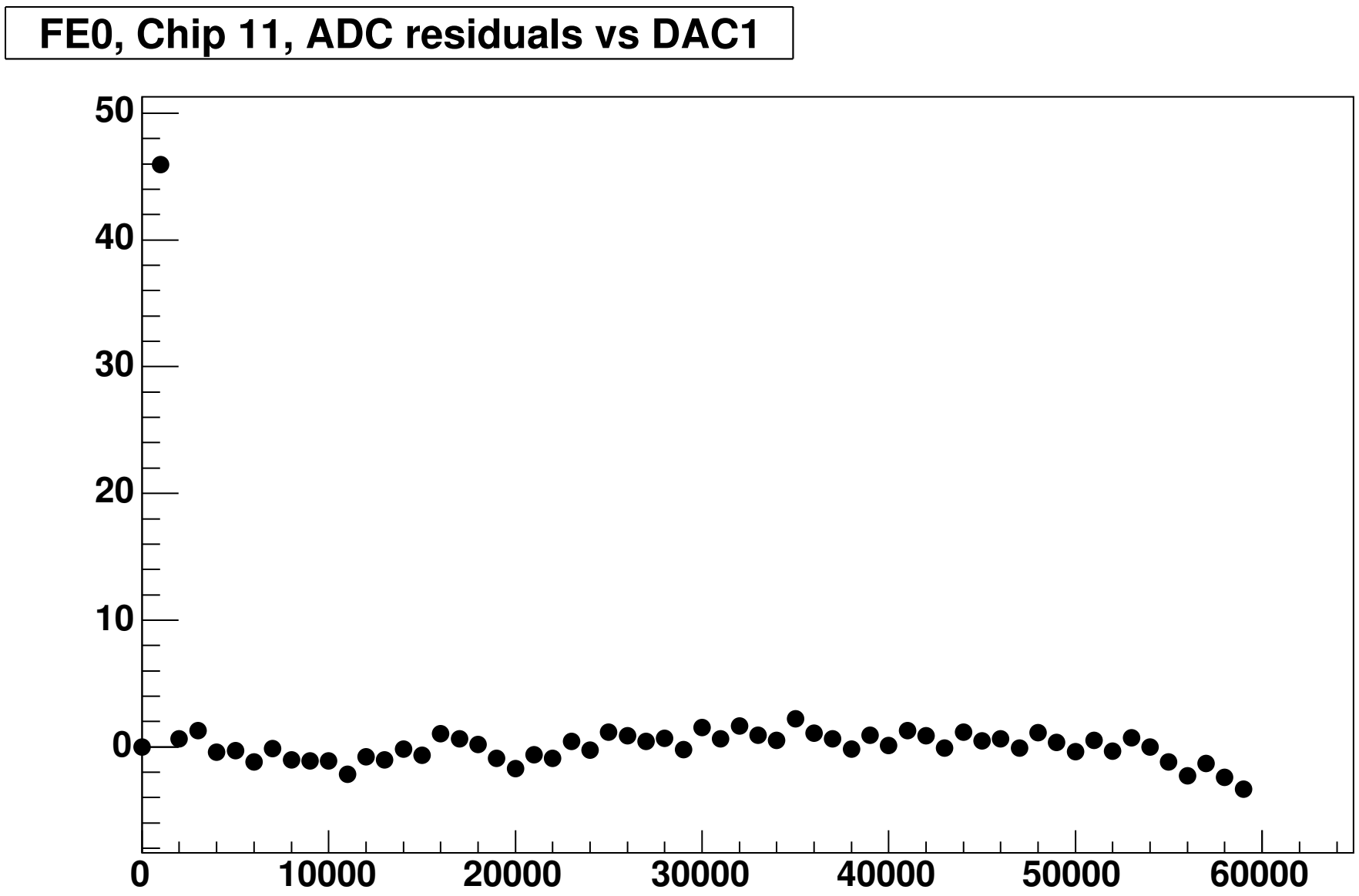

FE0, Chip 11, ADC mean vs DAC0
χ² / ndf 916.6 / 57
p0 435.3 ± 0.7962
p1 -4.429e-05 ± 2.311e-05
460
450
440
430
420
410
400
0
10000
20000
30000
40000
50000
60000

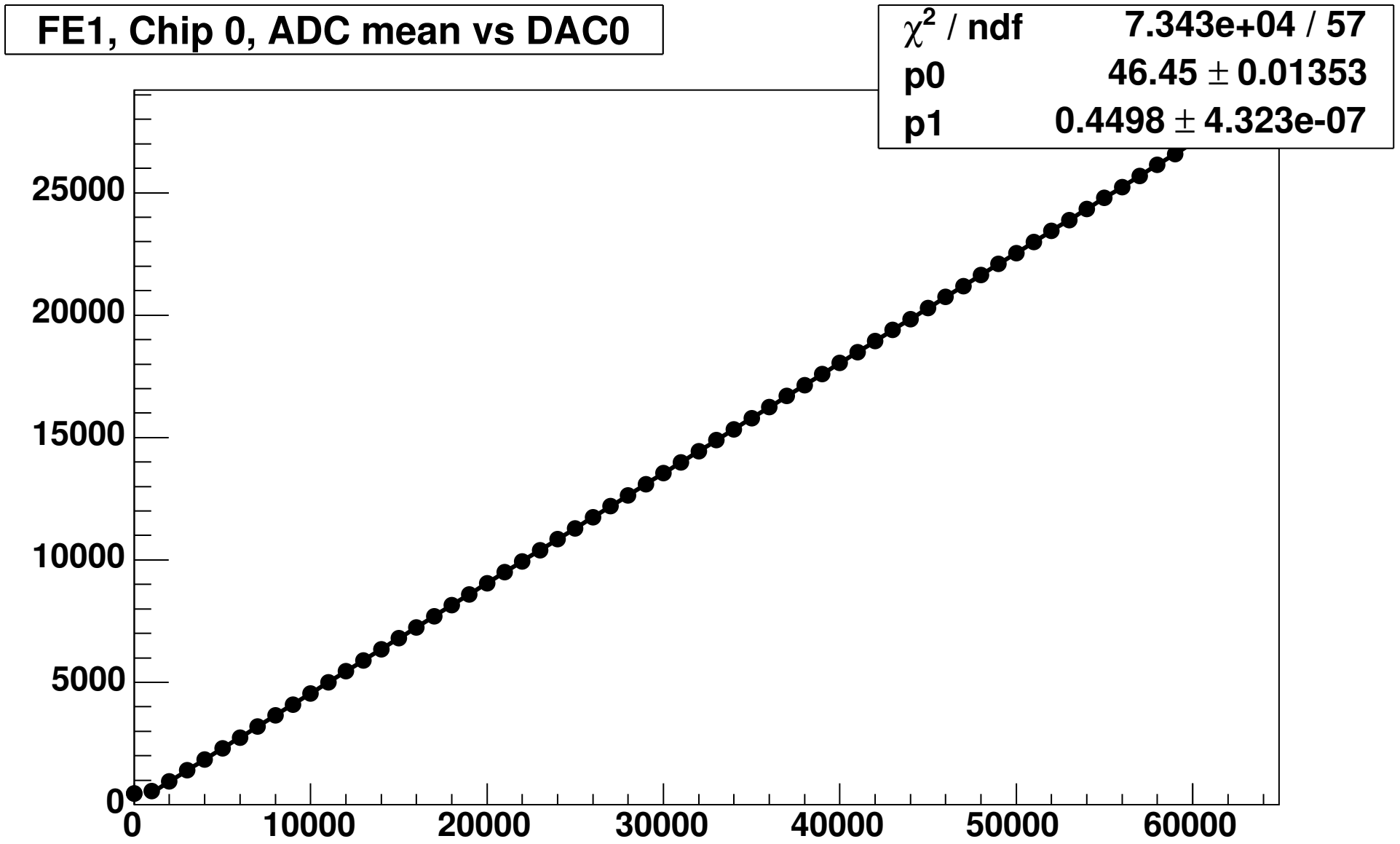

FE0, Chip 11, ADC noise vs DAC0
220
210
200
190
180
0
10000
20000
30000
40000
50000
60000

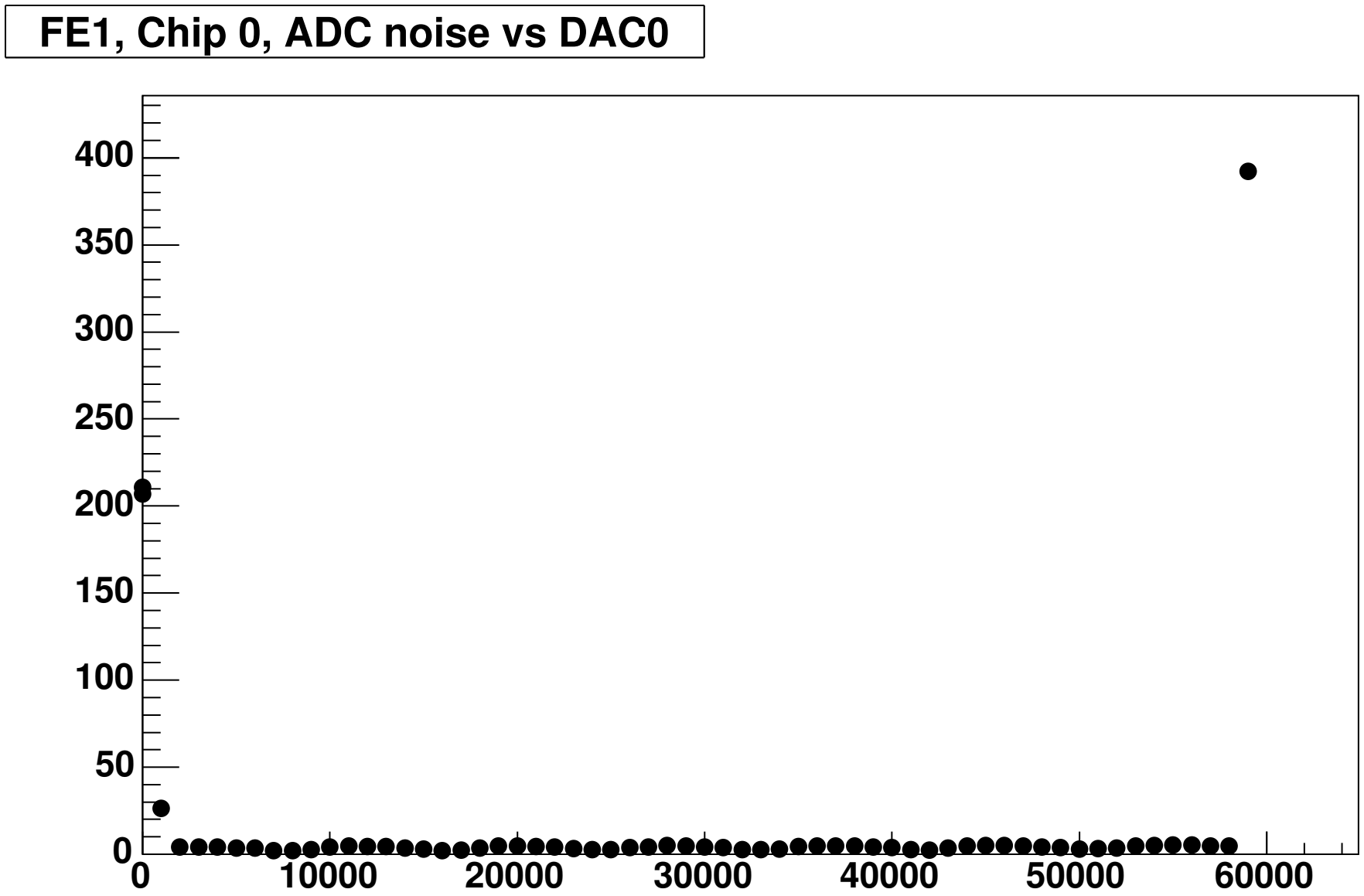

FE0, Chip 11, ADC residuals vs DAC0
30
20
10
0
-10
-20
-30
0
10000
20000
30000
40000
50000
60000

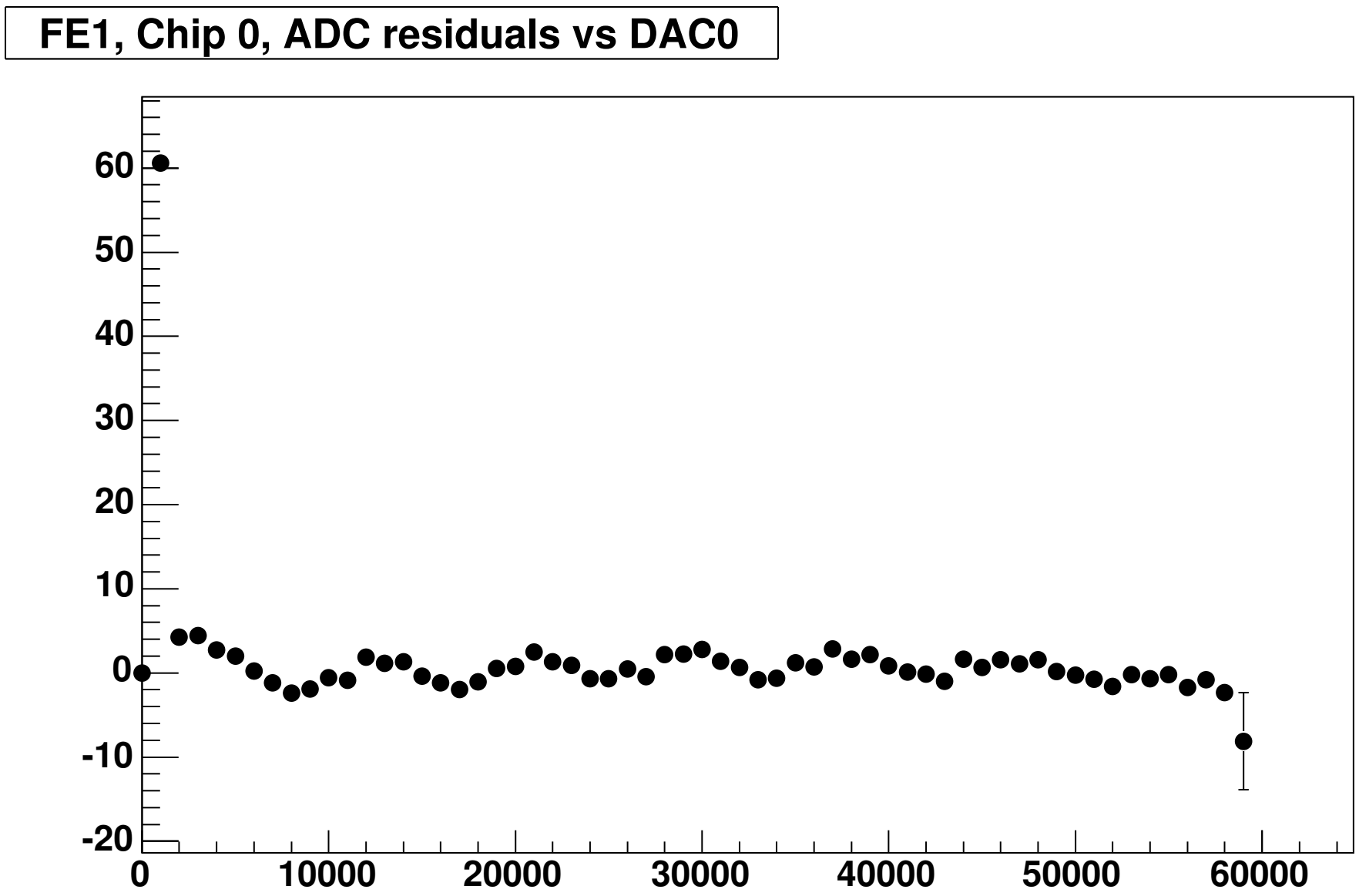

FE0, Chip 11, ADC mean vs DAC1
χ² / ndf 6.326e+04 / 57
p0 32.8 ± 0.01062
p1 0.4497 ± 3.078e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

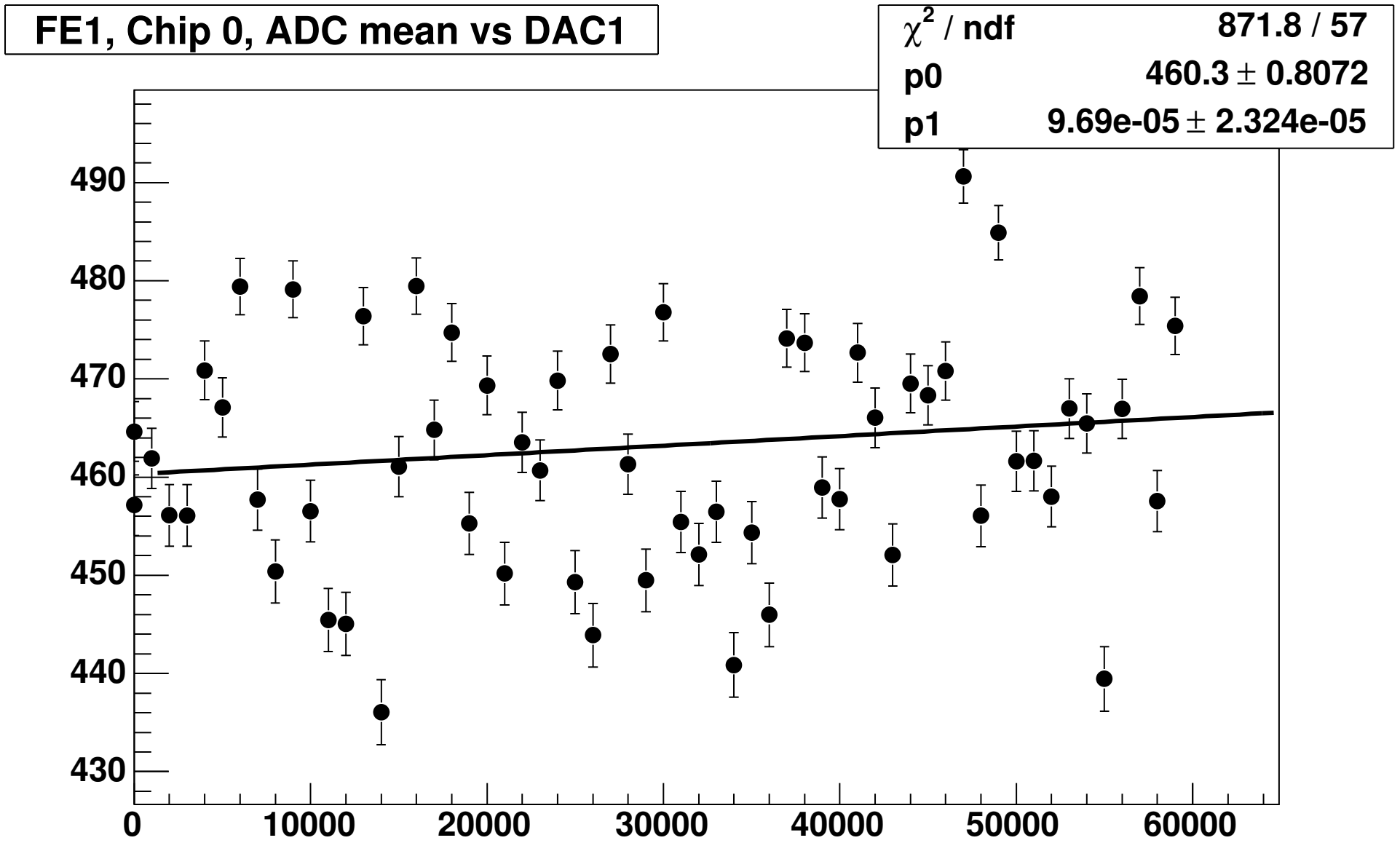

FE0, Chip 11, ADC noise vs DAC1
220
200
180
160
140
120
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
60000

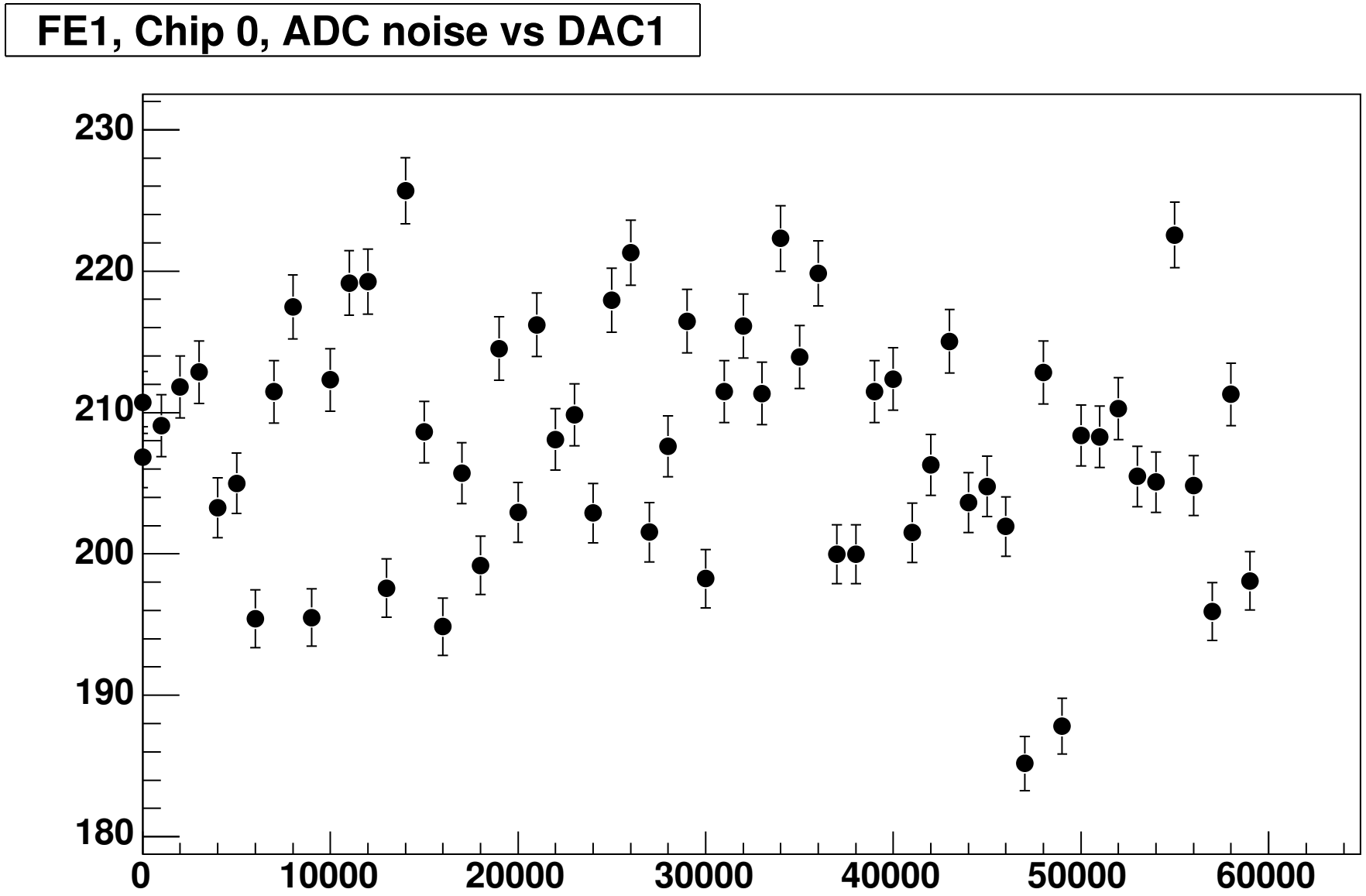

FE0, Chip 11, ADC residuals vs DAC1
50
40
30
20
10
0
0
10000
20000
30000
40000
50000
60000

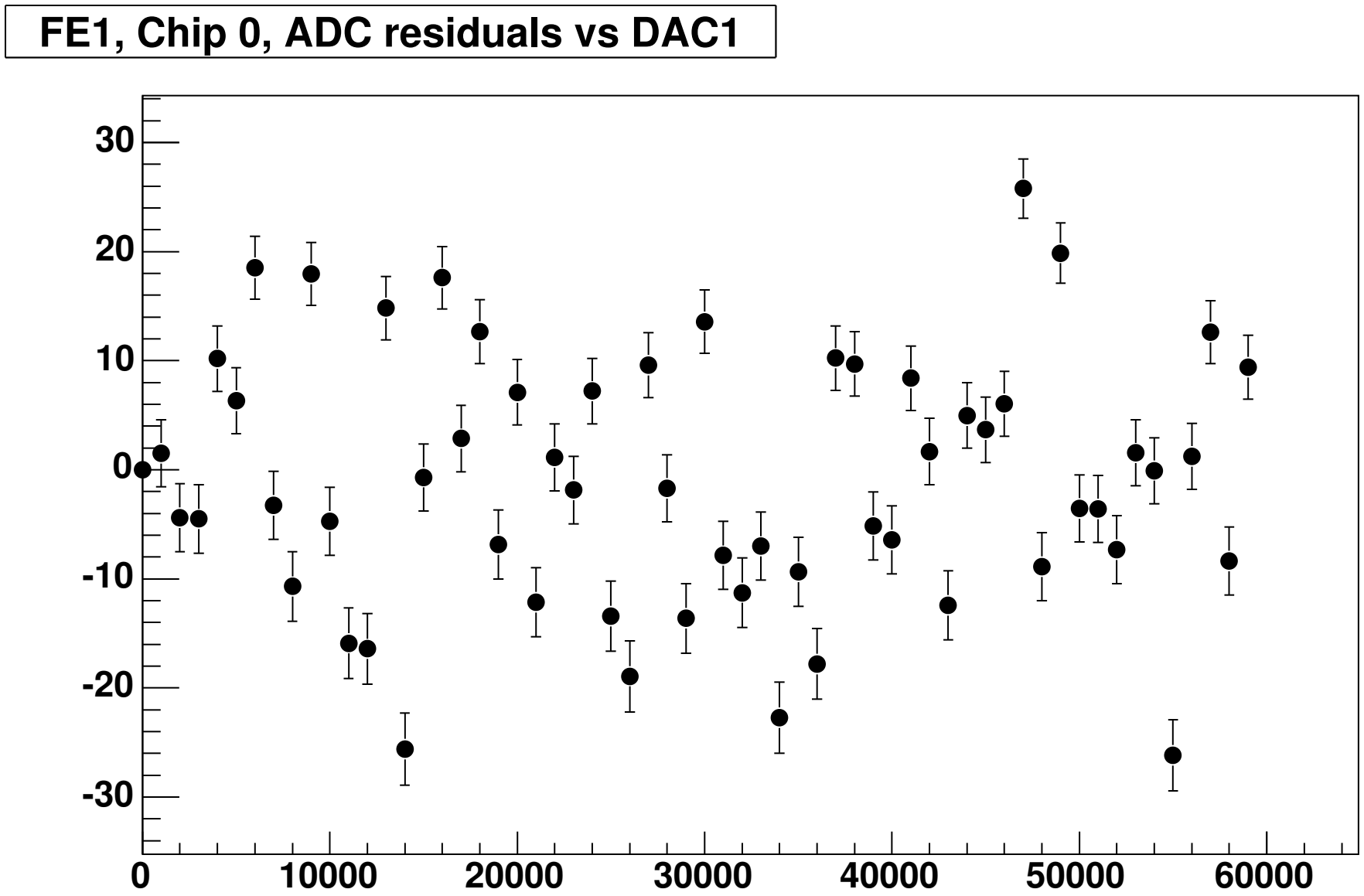

FE1, Chip 0, ADC mean vs DAC0
χ² / ndf 7.343e+04 / 57
p0 46.45 ± 0.01353
p1 0.4498 ± 4.323e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

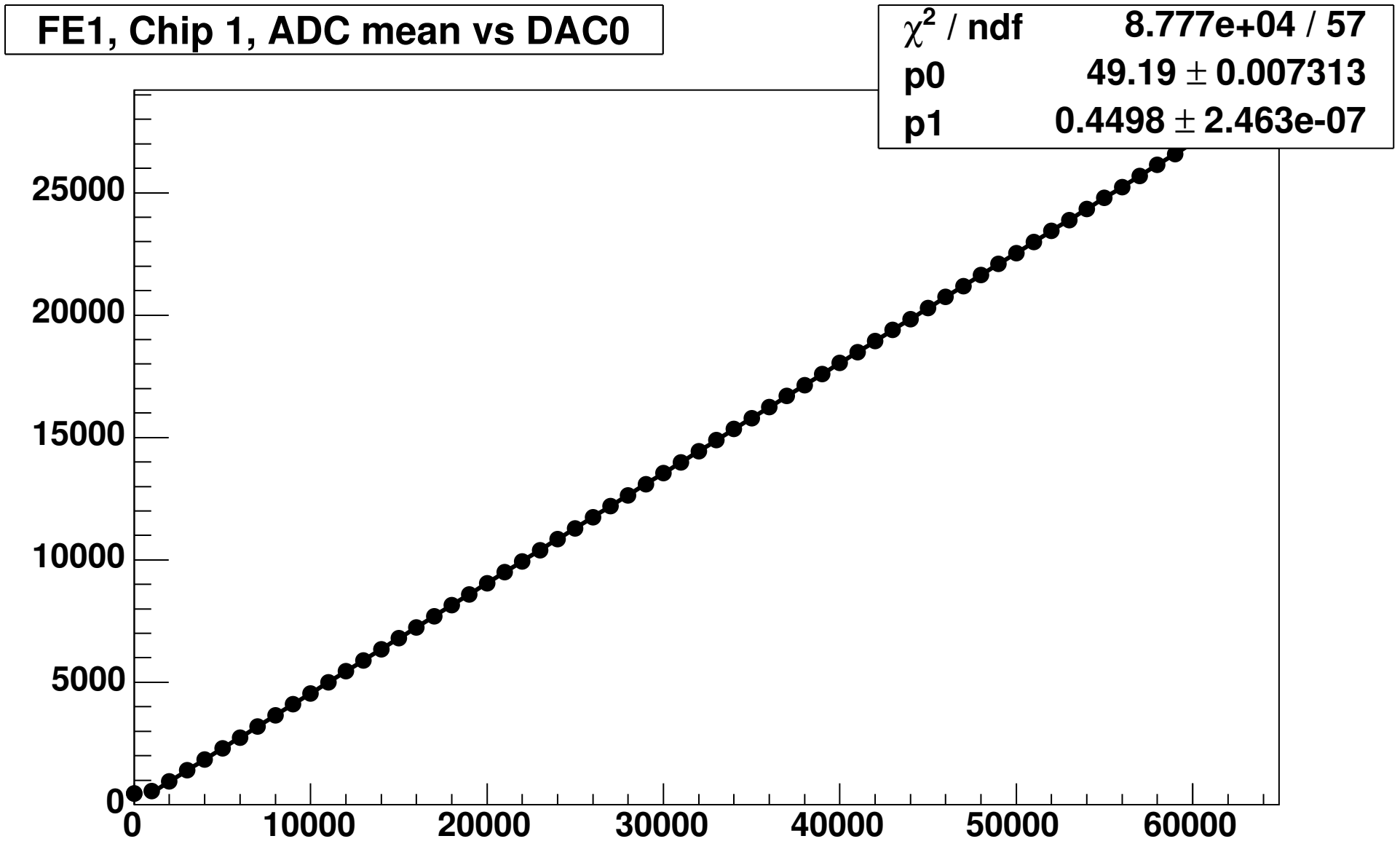

FE1, Chip 0, ADC noise vs DAC0
400
350
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000

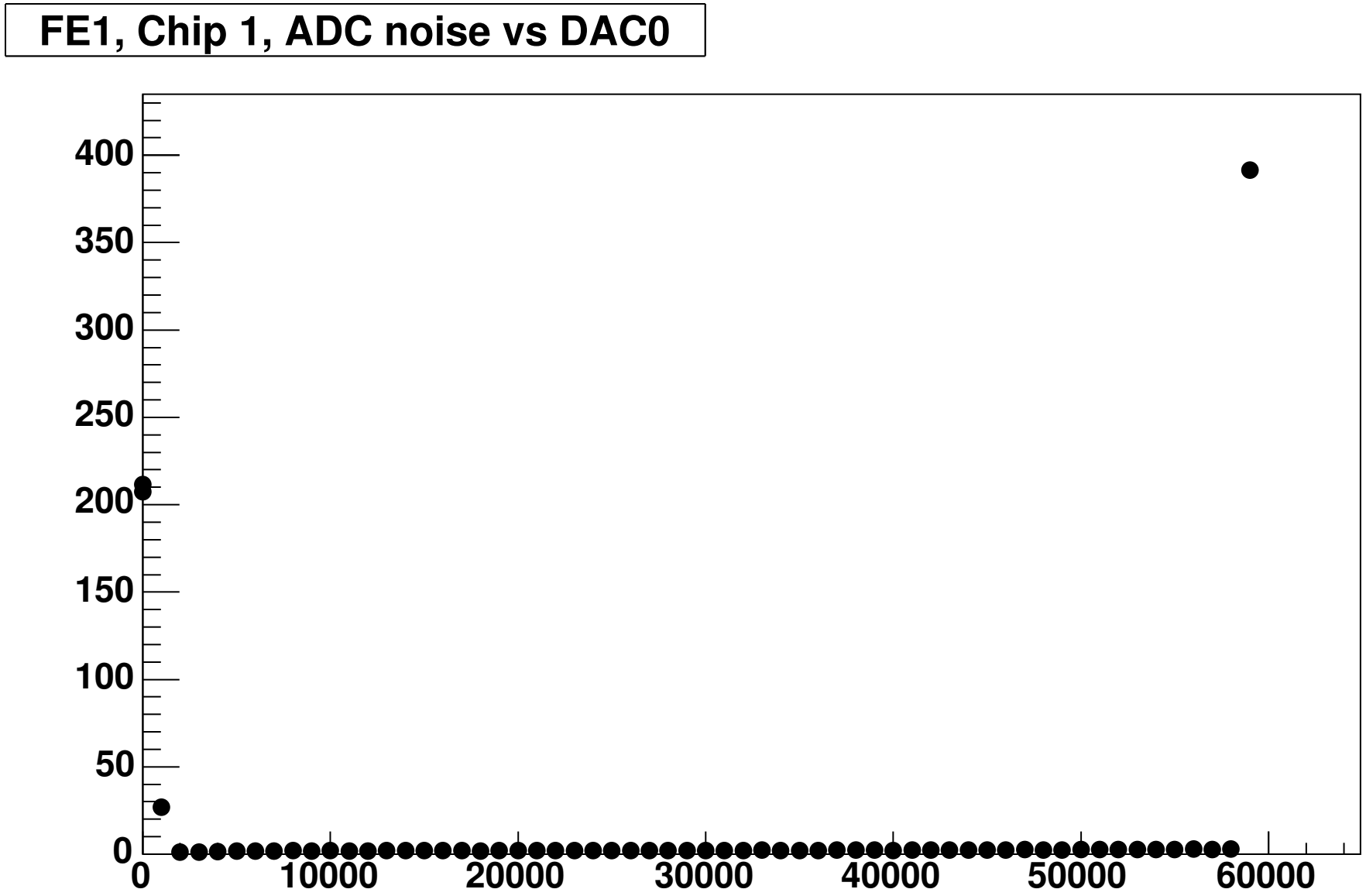

FE1, Chip 0, ADC residuals vs DAC0
60
50
40
30
20
10
0
-10
-20
0
10000
20000
30000
40000
50000
60000

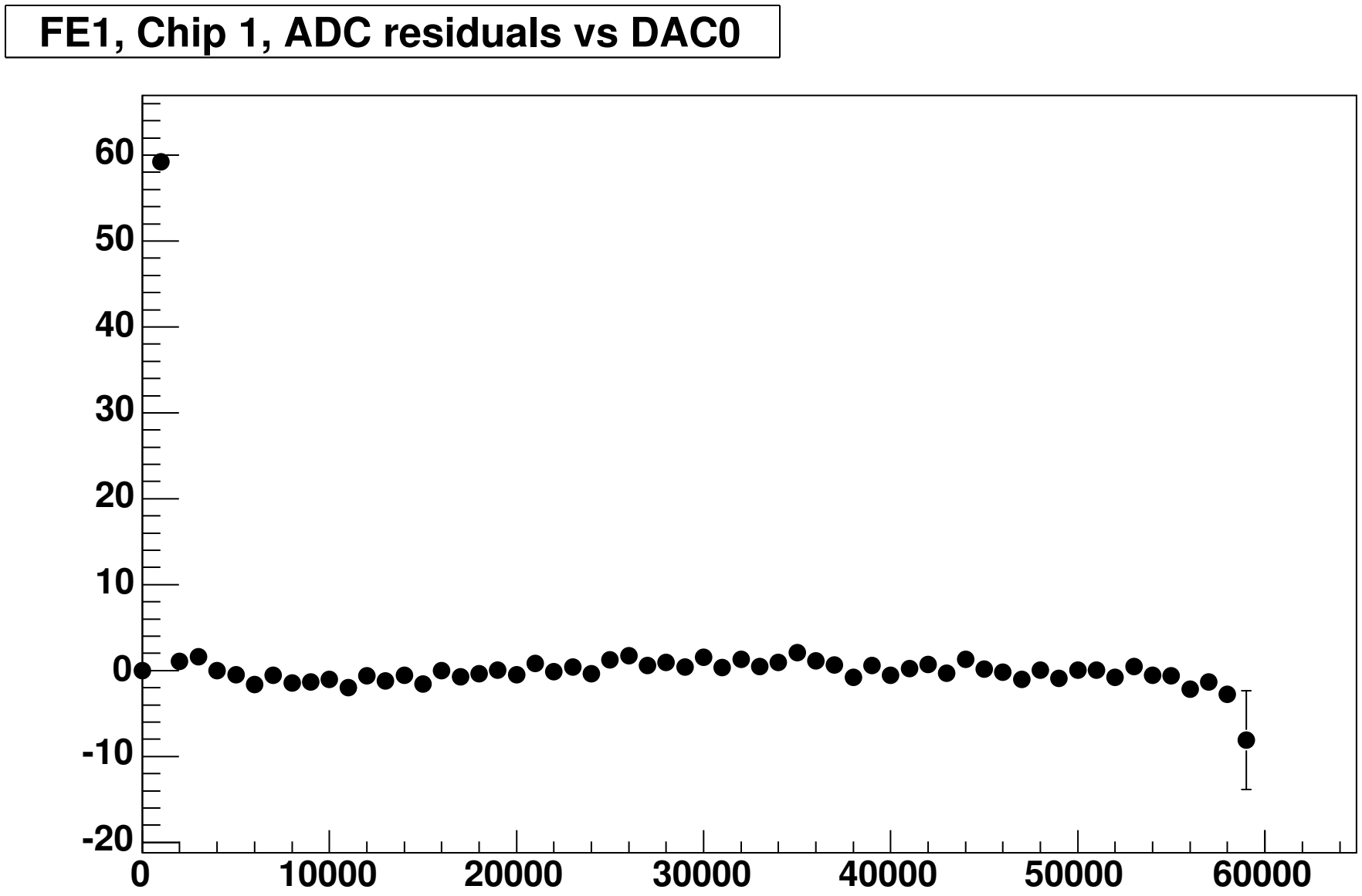

FE1, Chip 0, ADC mean vs DAC1
χ² / ndf 871.8 / 57
p0 460.3 ± 0.8072
p1 9.69e-05 ± 2.324e-05
490
480
470
460
450
440
430
0
10000
20000
30000
40000
50000
60000

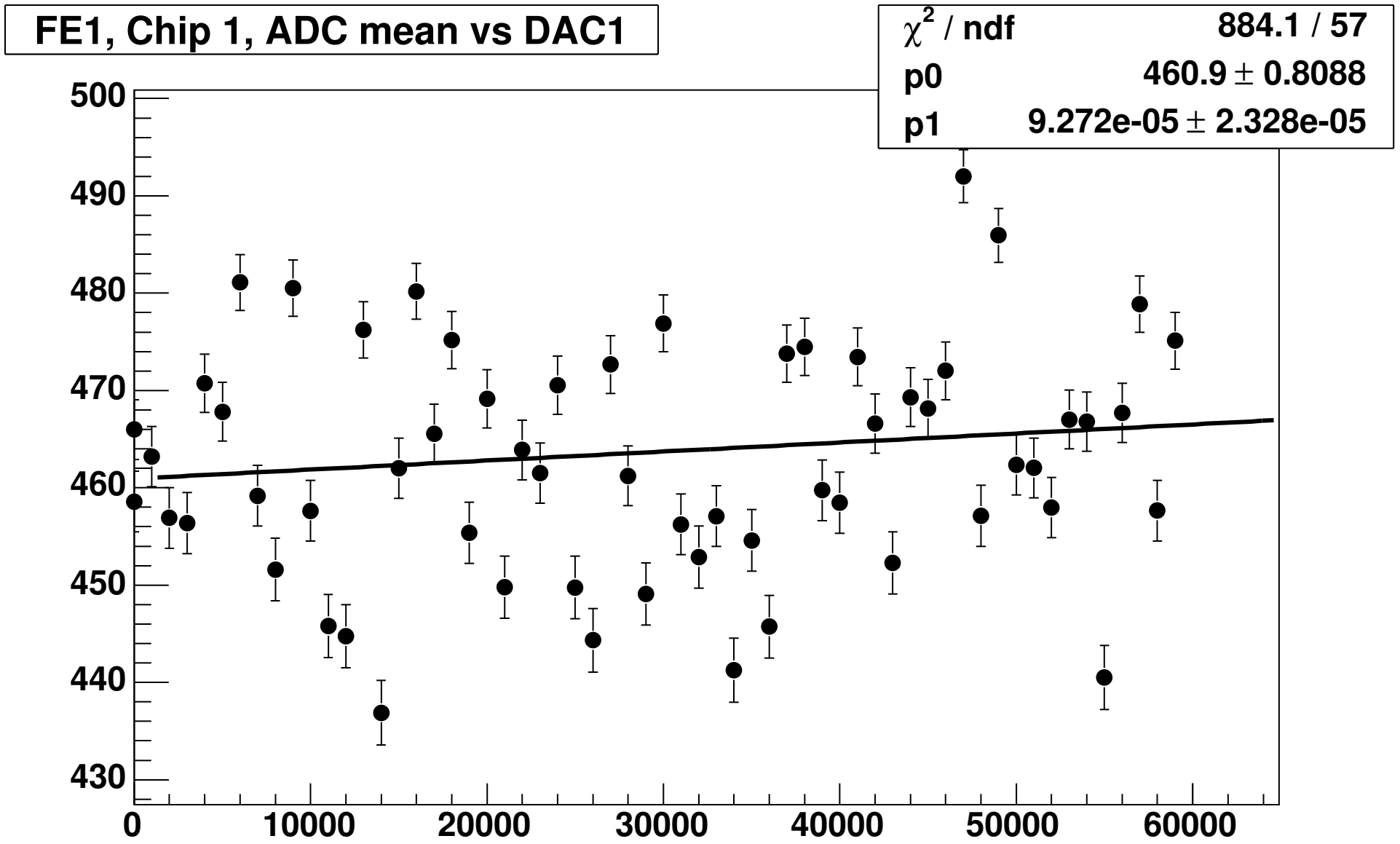

FE1, Chip 0, ADC noise vs DAC1
230
220
210
200
190
180
0
10000
20000
30000
40000
50000
60000

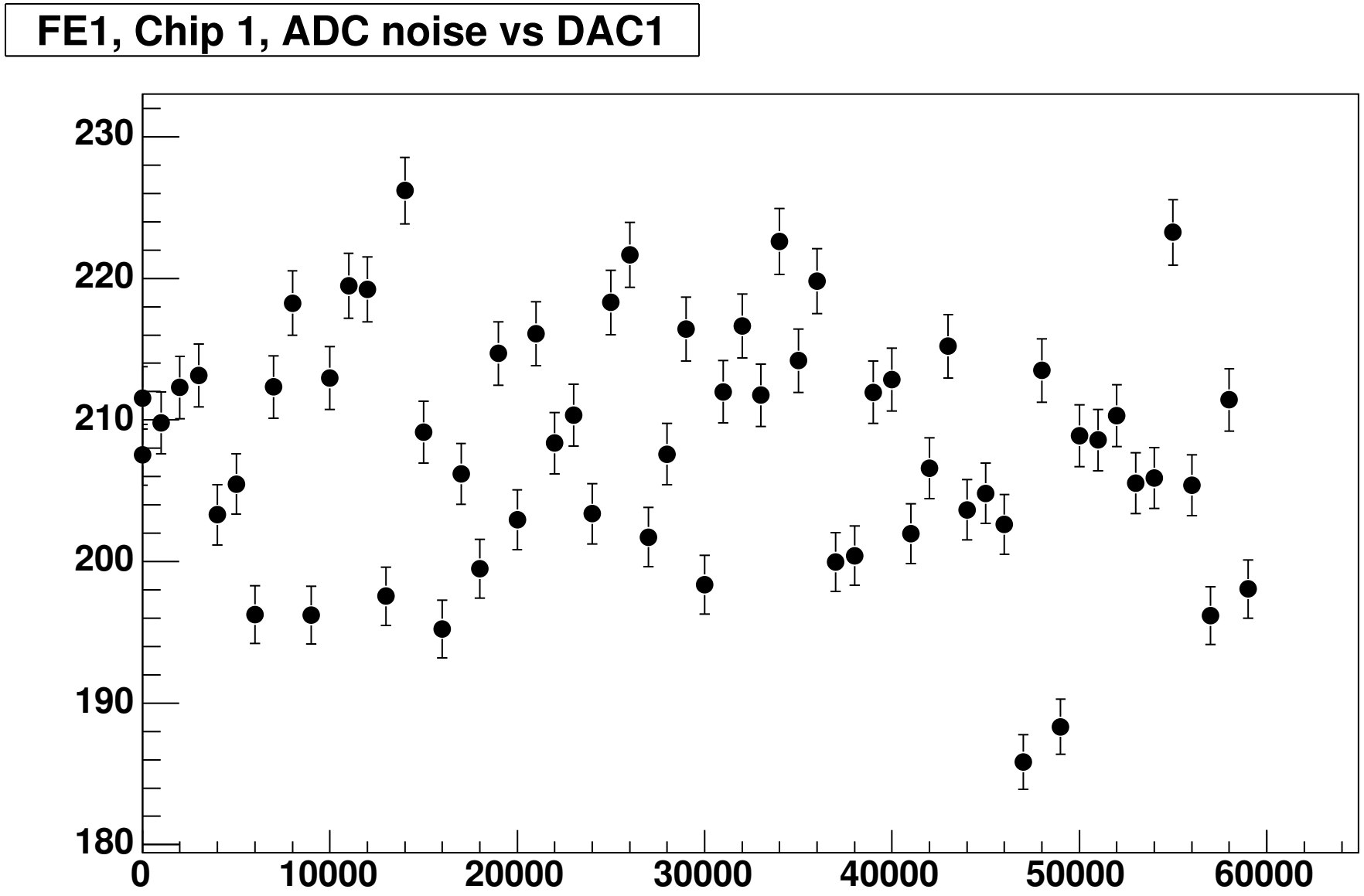

FE1, Chip 0, ADC residuals vs DAC1
30
20
10
0
-10
-20
-30
0
10000
20000
30000
40000
50000
60000

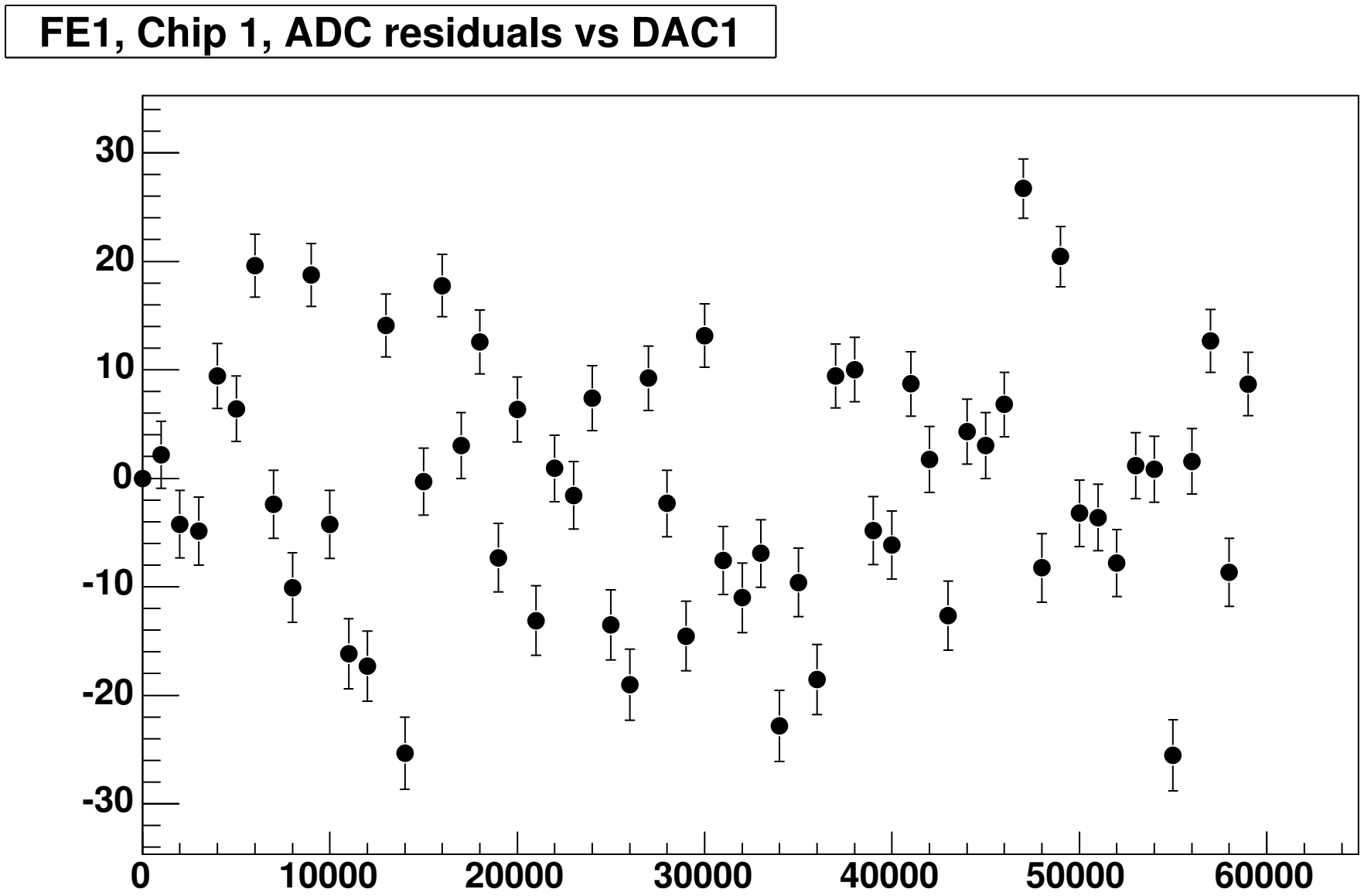

FE1, Chip 1, ADC mean vs DAC0
χ² / ndf 8.777e+04 / 57
p0 49.19 ± 0.007313
p1 0.4498 ± 2.463e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

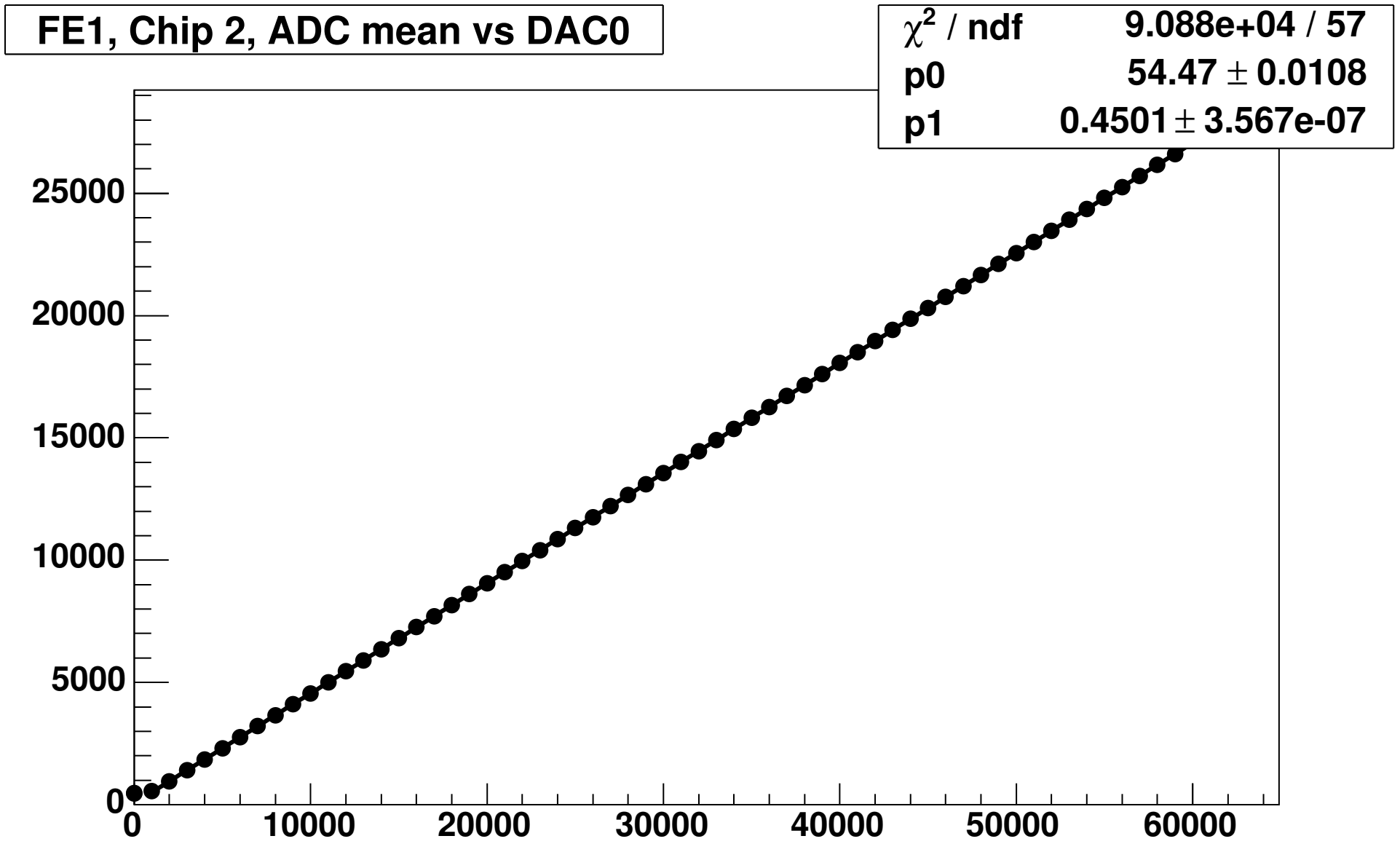

FE1, Chip 1, ADC noise vs DAC0
400
350
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000

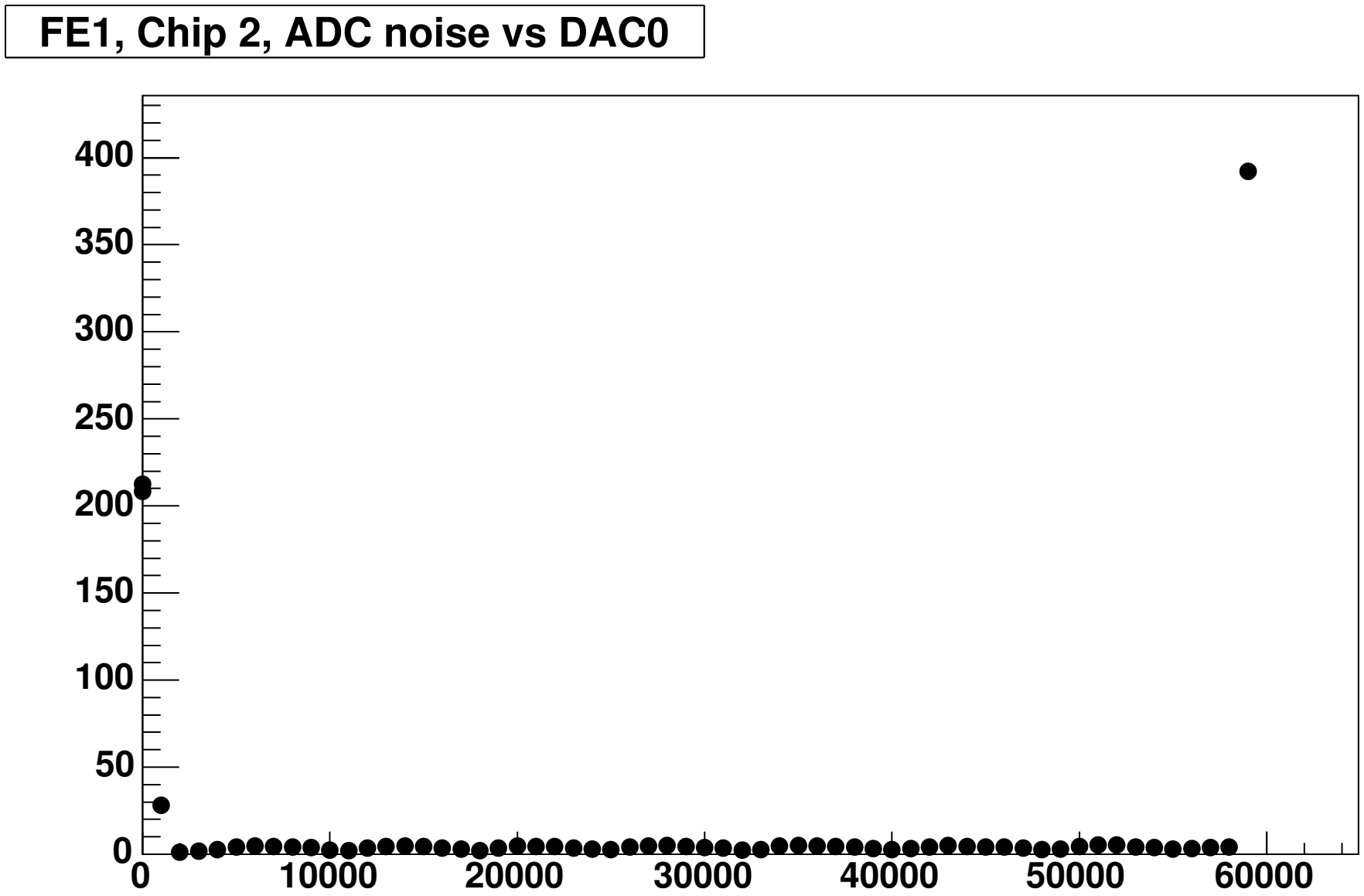

FE1, Chip 1, ADC residuals vs DAC0
60
50
40
30
20
10
0
-10
-20
0
10000
20000
30000
40000
50000
60000

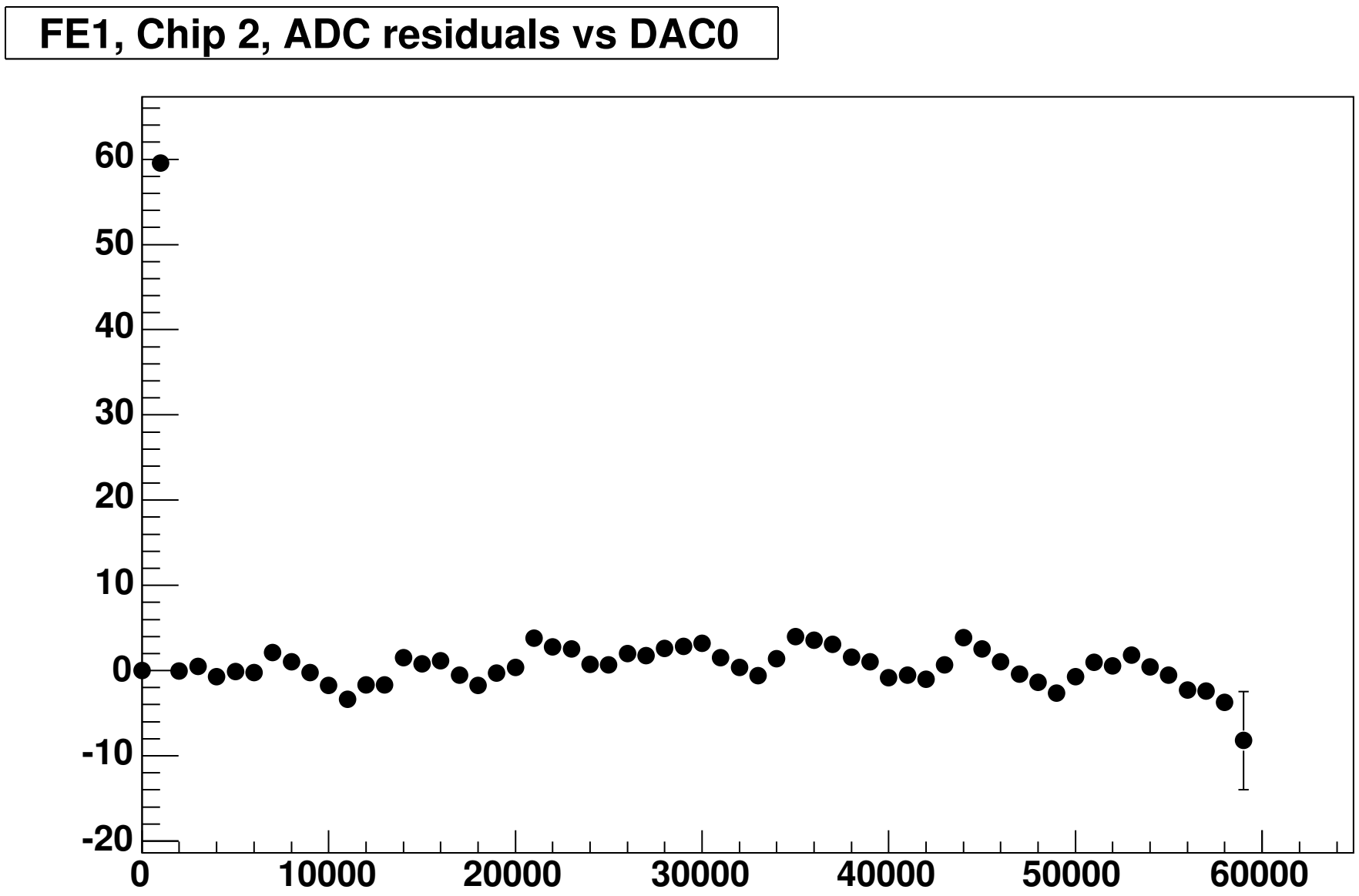

FE1, Chip 1, ADC mean vs DAC1
χ² / ndf 884.1 / 57
p0 460.9 ± 0.8088
p1 9.272e-05 ± 2.328e-05
500
490
480
470
460
450
440
430
0
10000
20000
30000
40000
50000
60000

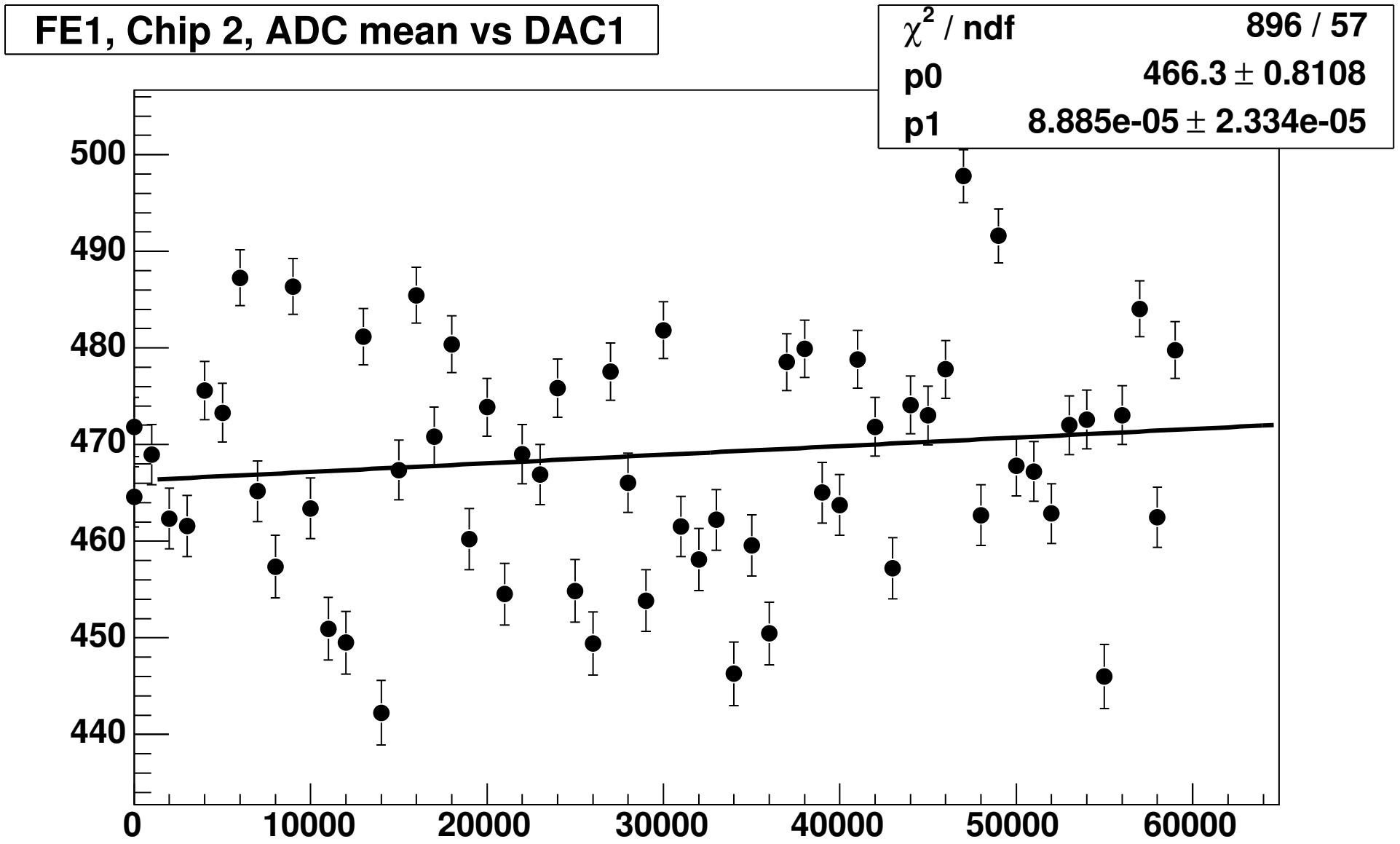

FE1, Chip 1, ADC noise vs DAC1
230
220
210
200
190
180
0
10000
20000
30000
40000
50000
60000

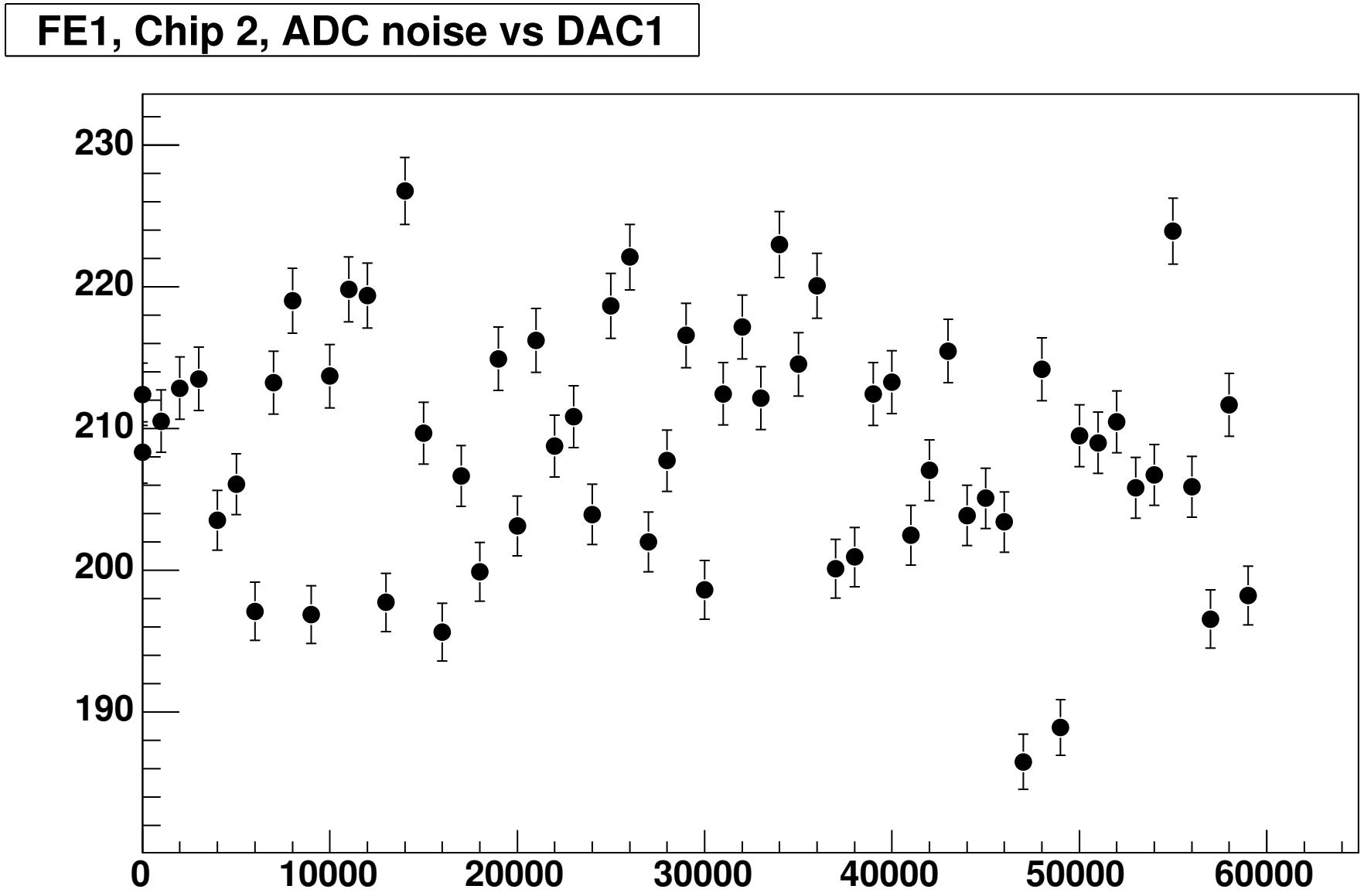

FE1, Chip 1, ADC residuals vs DAC1
30
20
10
0
-10
-20
-30
0
10000
20000
30000
40000
50000
60000

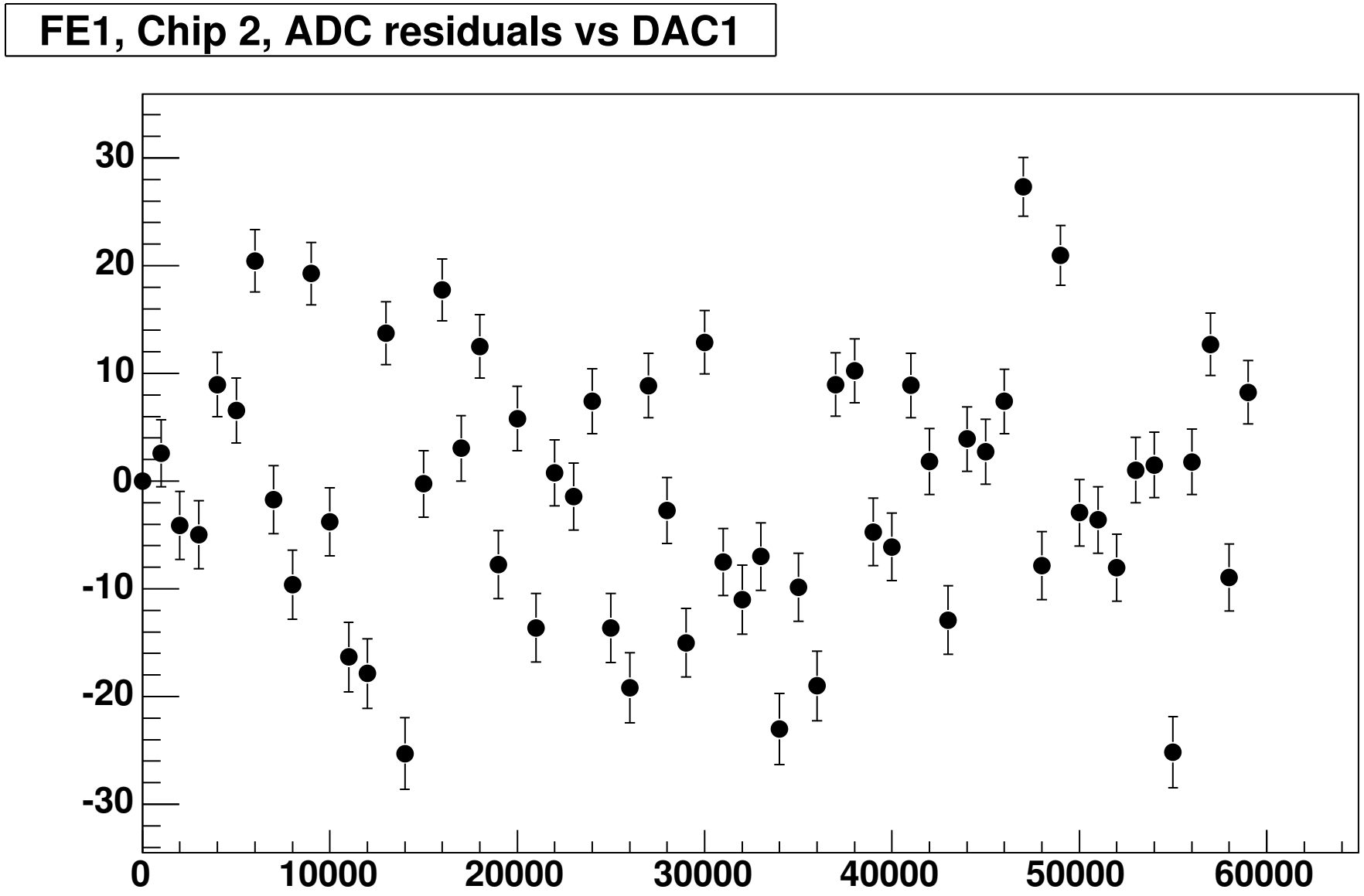

FE1, Chip 2, ADC mean vs DAC0
χ² / ndf 9.088e+04 / 57
p0 54.47 ± 0.0108
p1 0.4501 ± 3.567e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

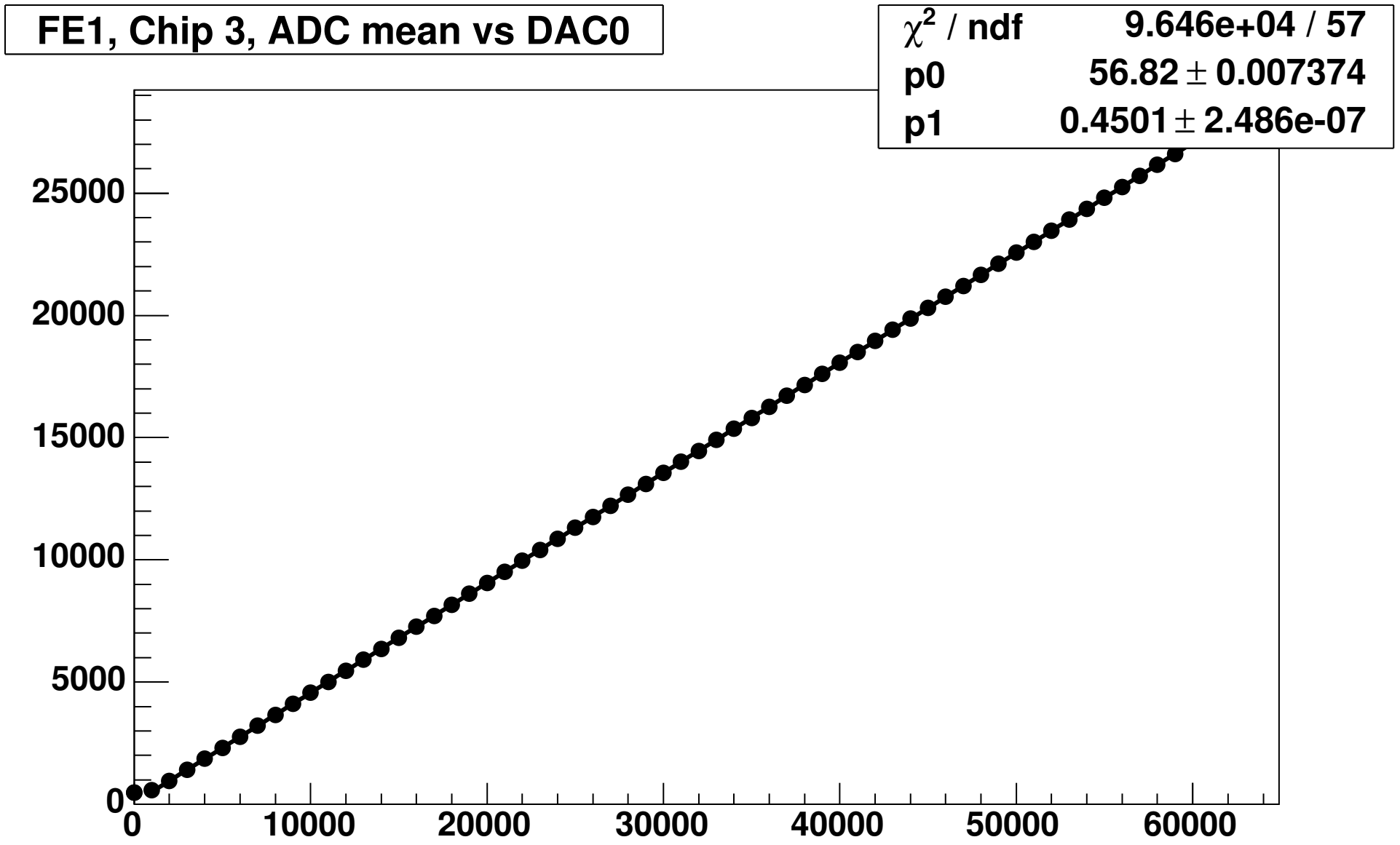

FE1, Chip 2, ADC noise vs DAC0
400
350
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000

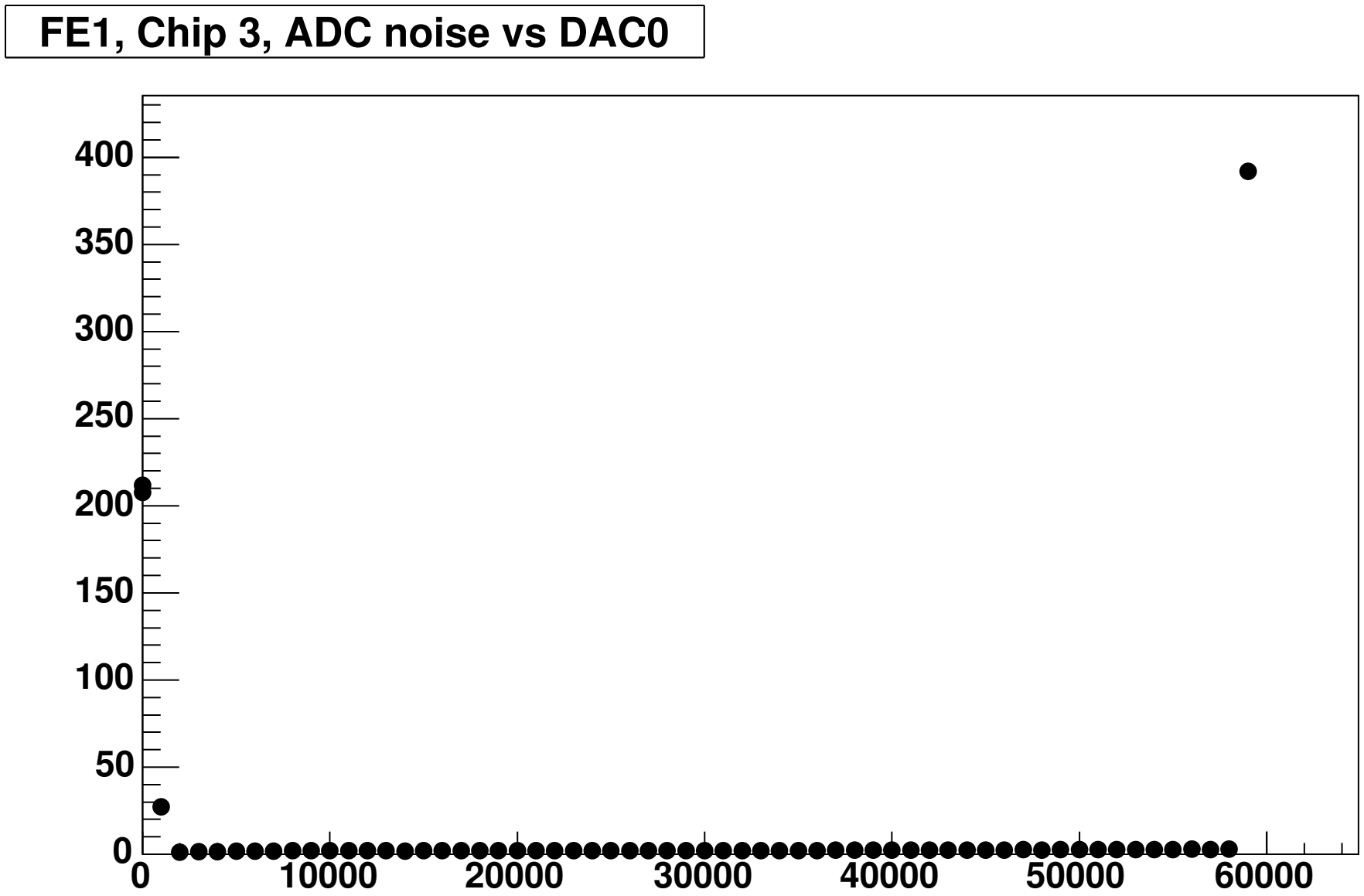

FE1, Chip 2, ADC residuals vs DAC0
60
50
40
30
20
10
0
-10
-20
0
10000
20000
30000
40000
50000
60000

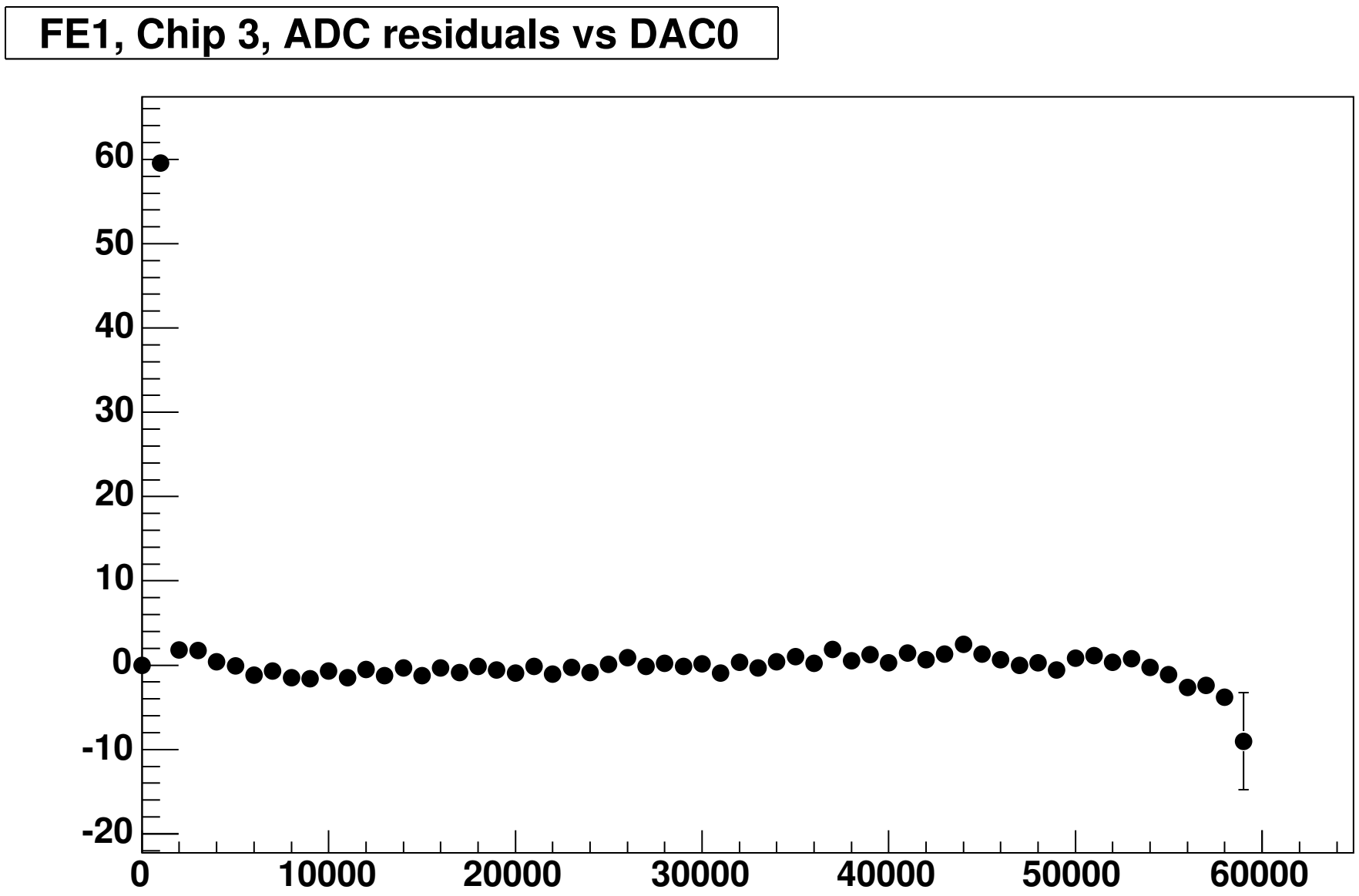

FE1, Chip 2, ADC mean vs DAC1
χ² / ndf 896 / 57
p0 466.3 ± 0.8108
p1 8.885e-05 ± 2.334e-05
500
490
480
470
460
450
440
0
10000
20000
30000
40000
50000
60000

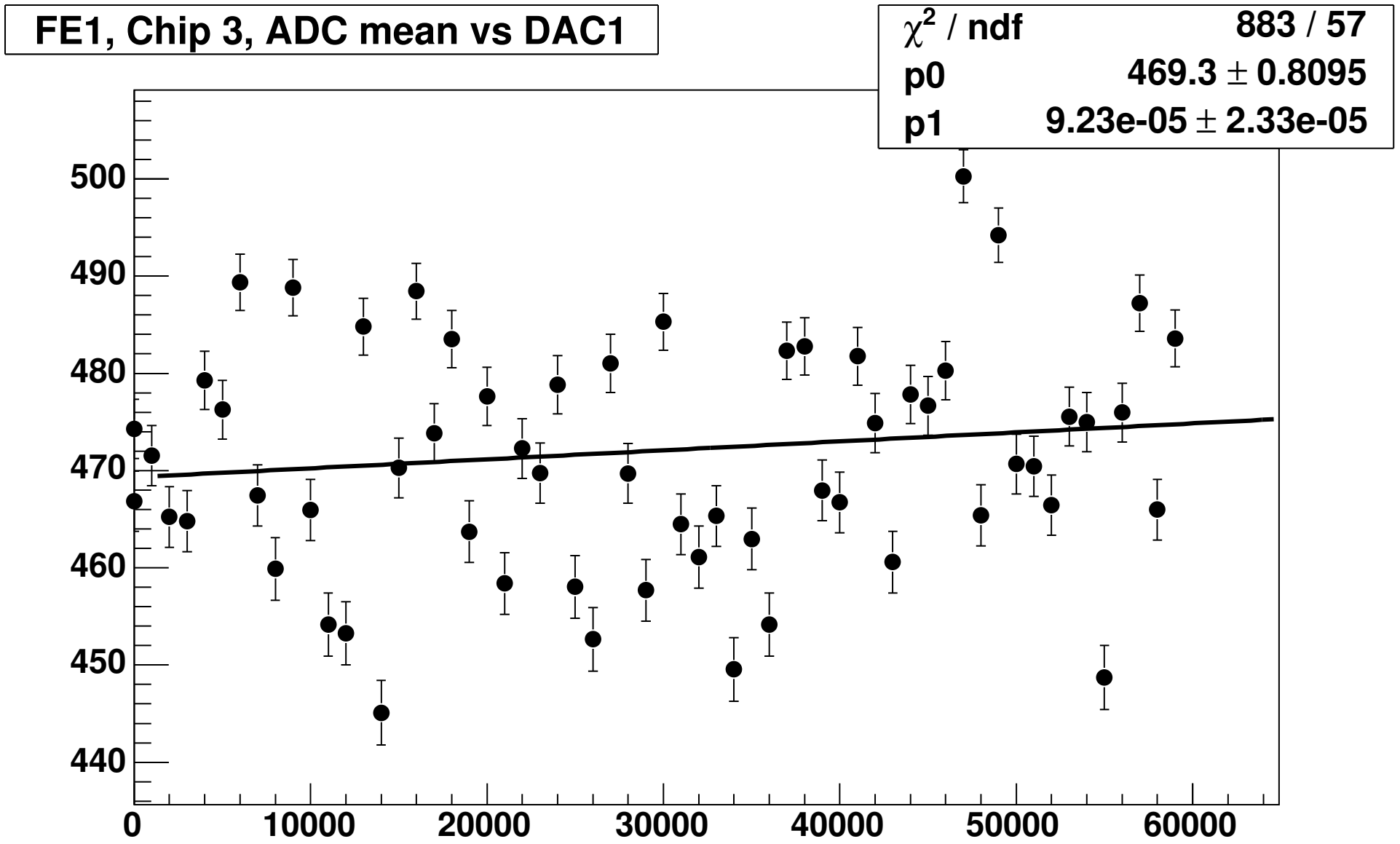

FE1, Chip 2, ADC noise vs DAC1
230
220
210
200
190
0
10000
20000
30000
40000
50000
60000

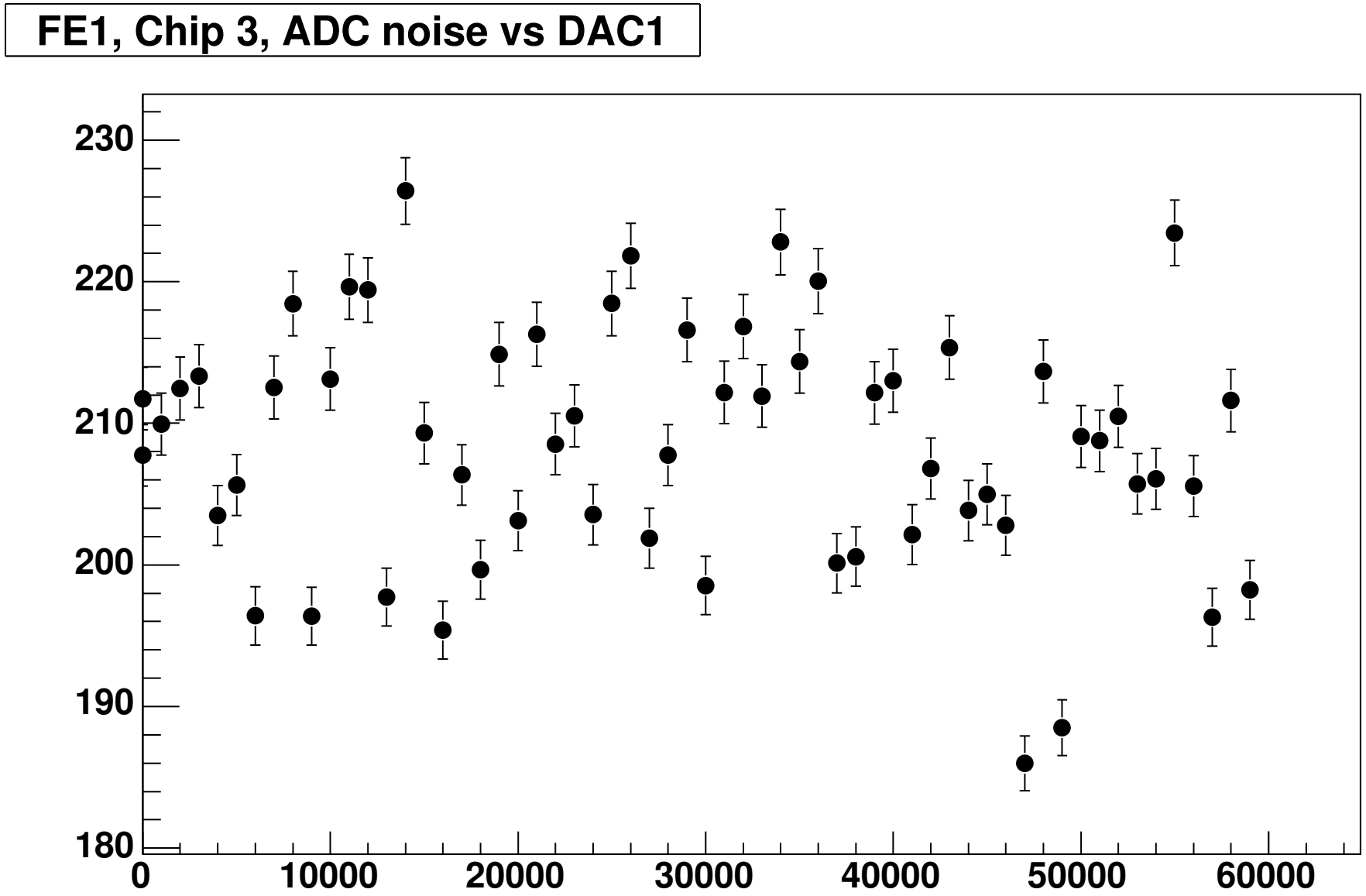

FE1, Chip 2, ADC residuals vs DAC1
30
20
10
0
-10
-20
-30
0
10000
20000
30000
40000
50000
60000


FE1, Chip 3, ADC mean vs DAC0
χ² / ndf 9.646e+04 / 57
p0 56.82 ± 0.007374
p1 0.4501 ± 2.486e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

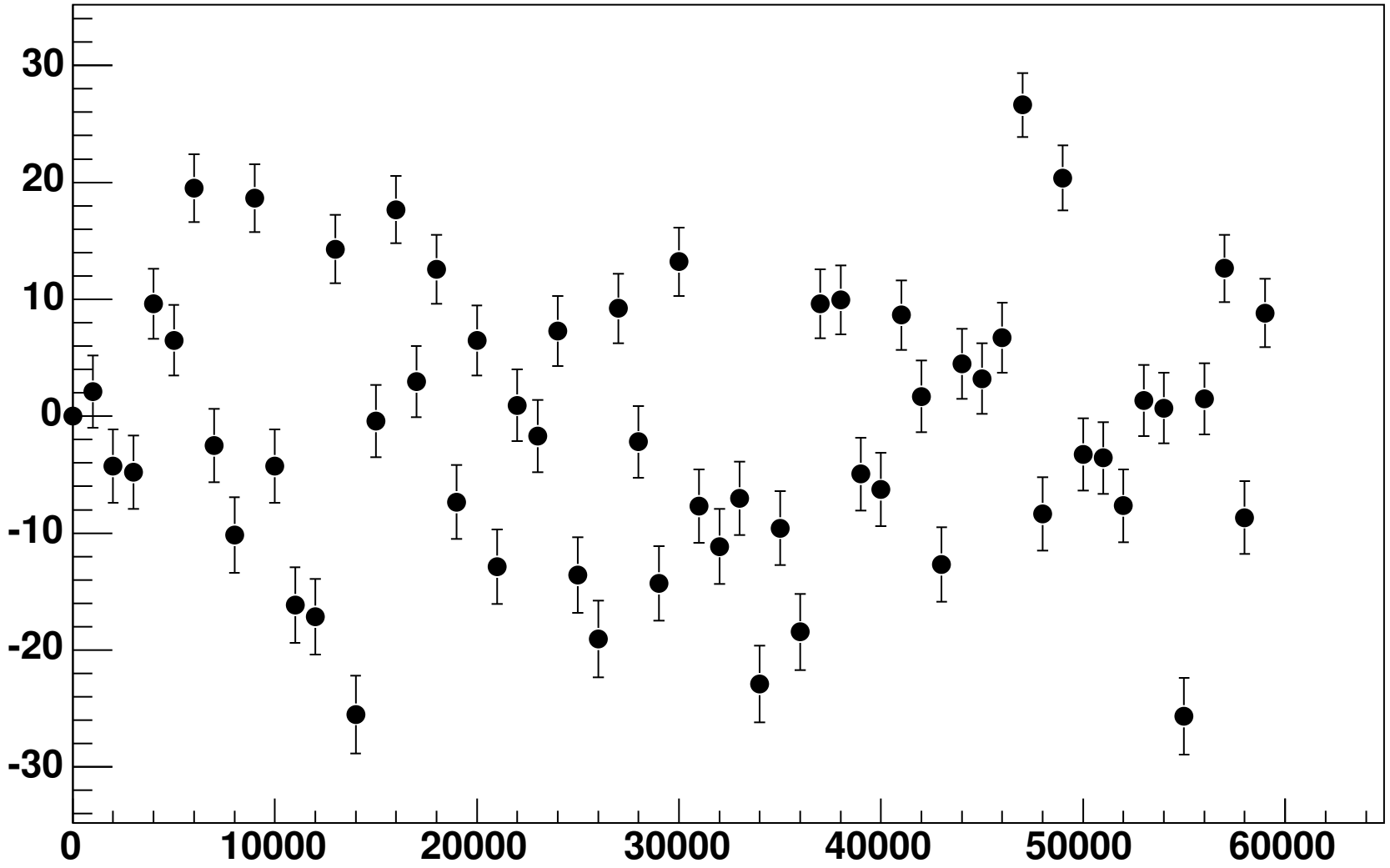

FE1, Chip 3, ADC noise vs DAC0
400
350
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000

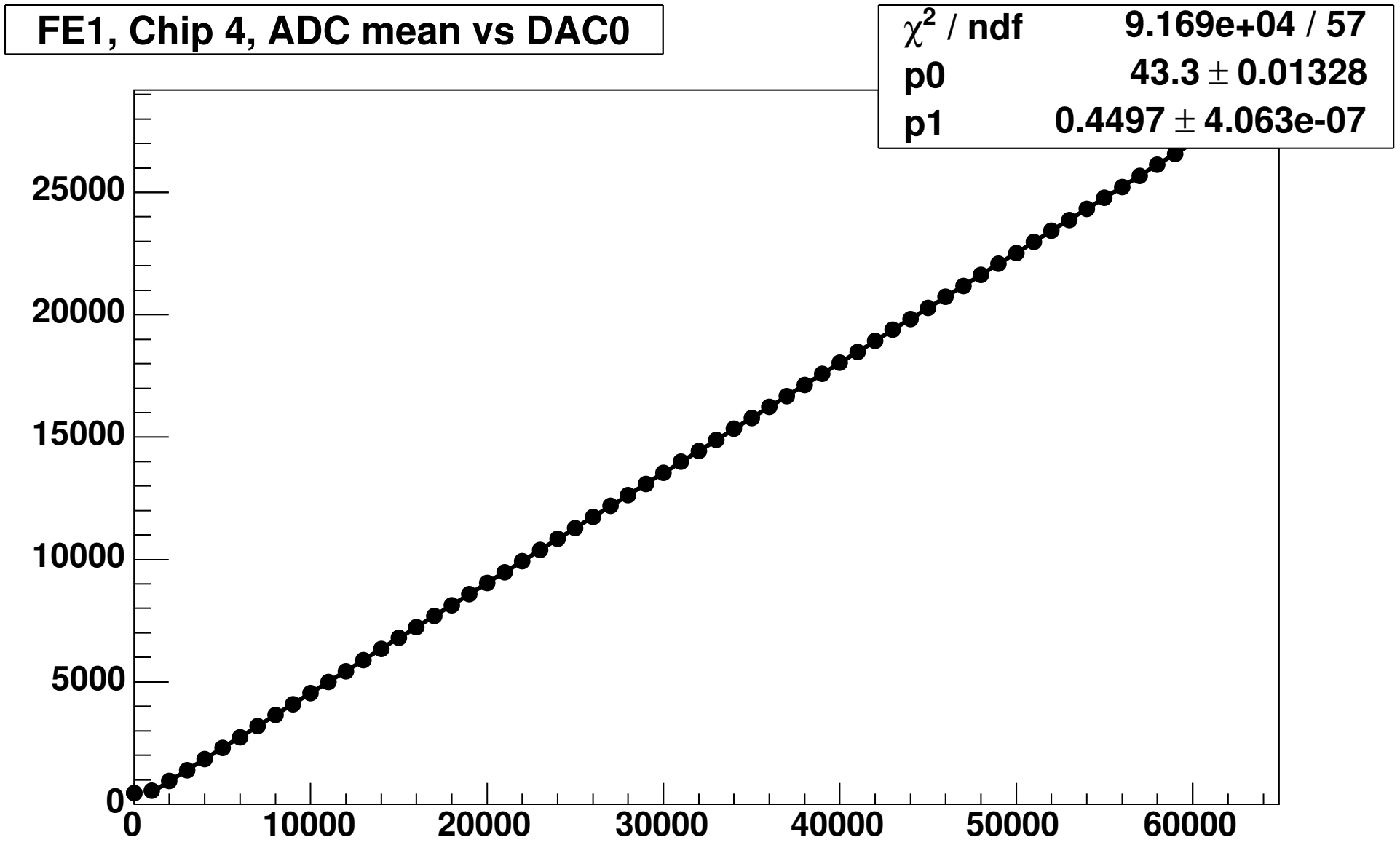

FE1, Chip 3, ADC residuals vs DAC0
60
50
40
30
20
10
0
-10
-20
0
10000
20000
30000
40000
50000
60000

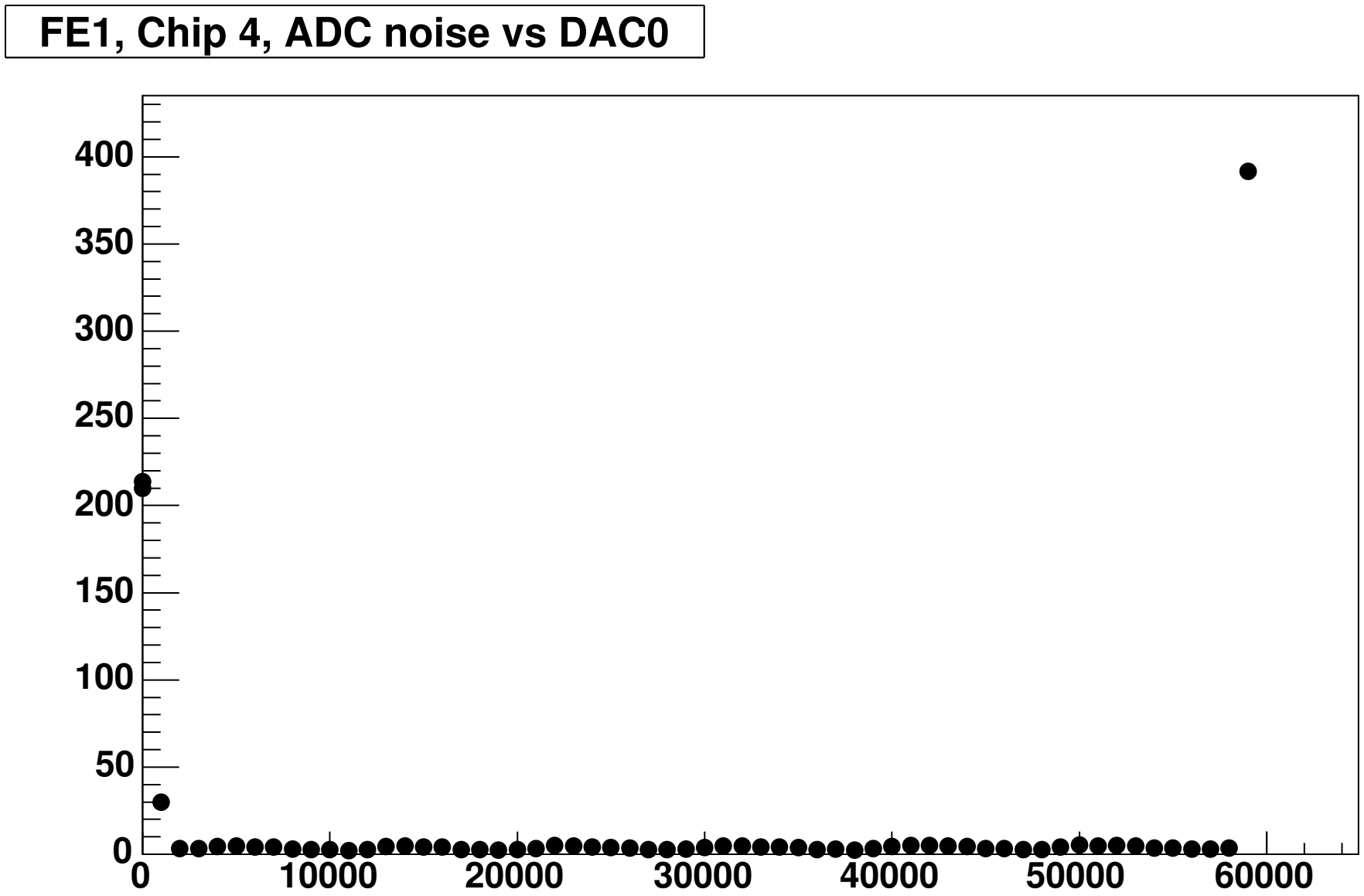

FE1, Chip 3, ADC mean vs DAC1
χ² / ndf 883 / 57
p0 469.3 ± 0.8095
p1 9.23e-05 ± 2.33e-05
500
490
480
470
460
450
440
0
10000
20000
30000
40000
50000
60000

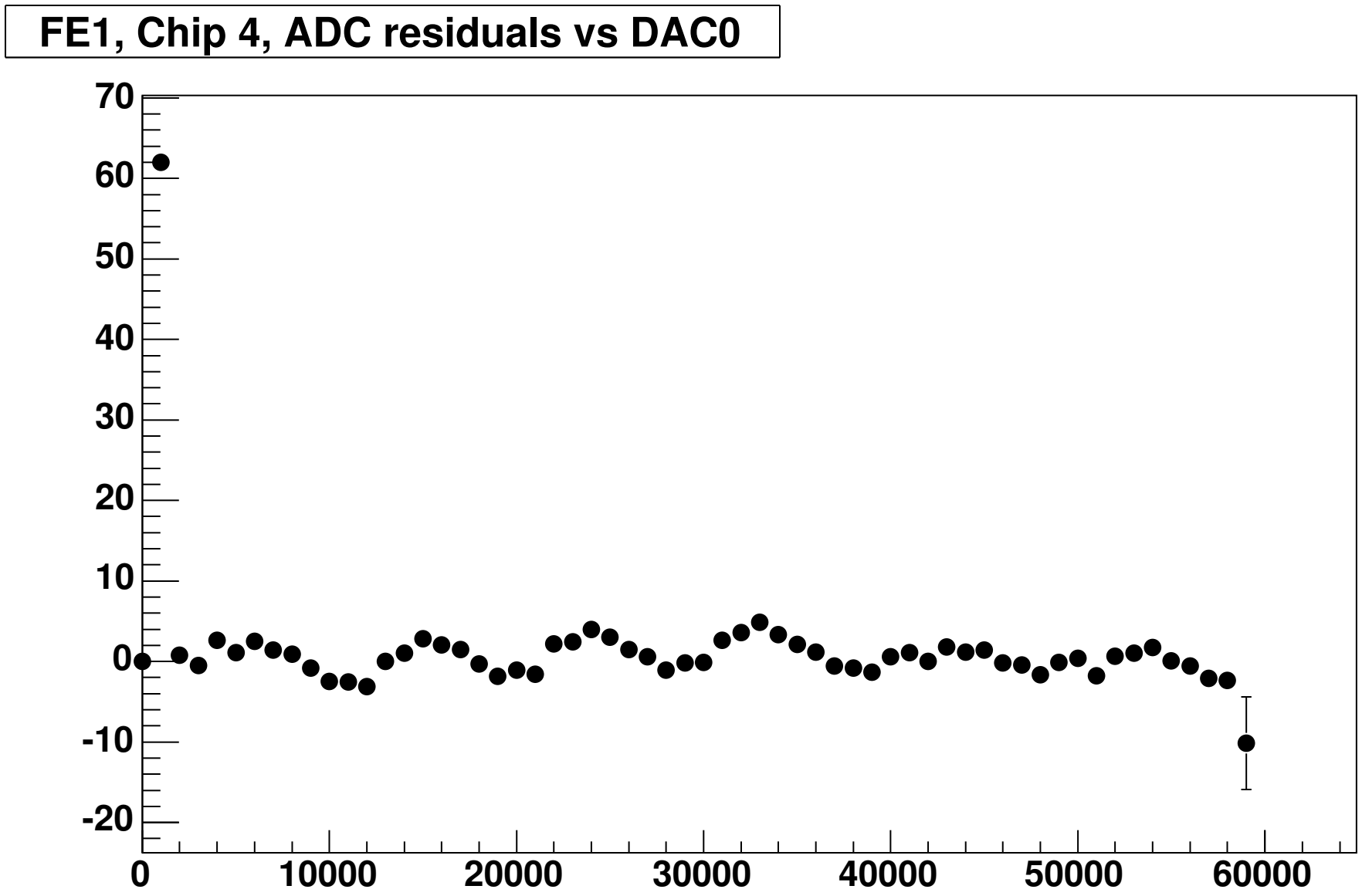

FE1, Chip 3, ADC noise vs DAC1
230
220
210
200
190
180
0
10000
20000
30000
40000
50000
60000

FE1, Chip 3, ADC residuals vs DAC1




FE1, Chip 4, ADC mean vs DAC0
χ² / ndf 9.169e+04 / 57
p0 43.3 ± 0.01328
p1 0.4497 ± 4.063e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE1, Chip 4, ADC noise vs DAC0
400
350
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000


FE1, Chip 4, ADC residuals vs DAC0
70
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30
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0
-10
-20
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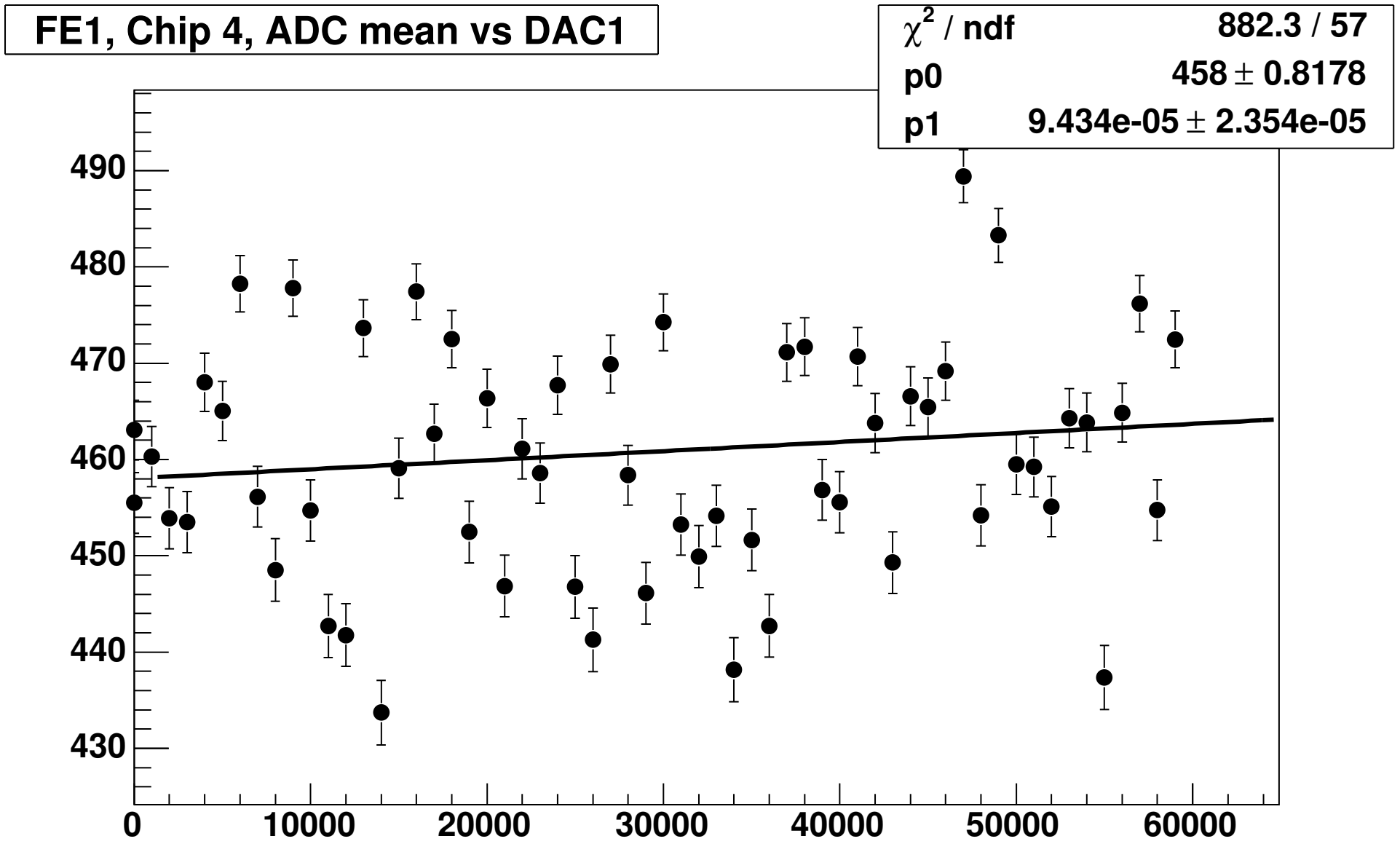
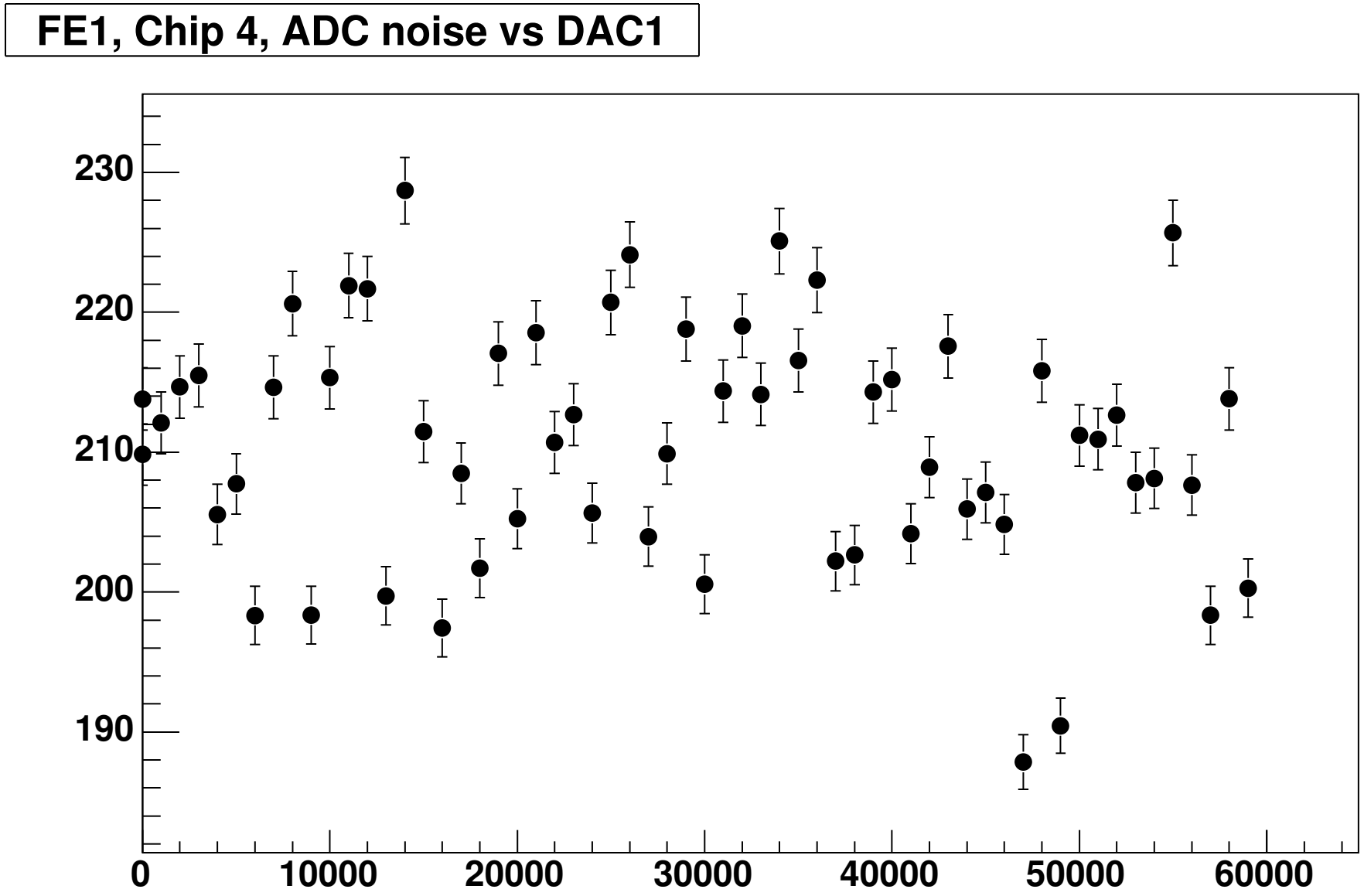
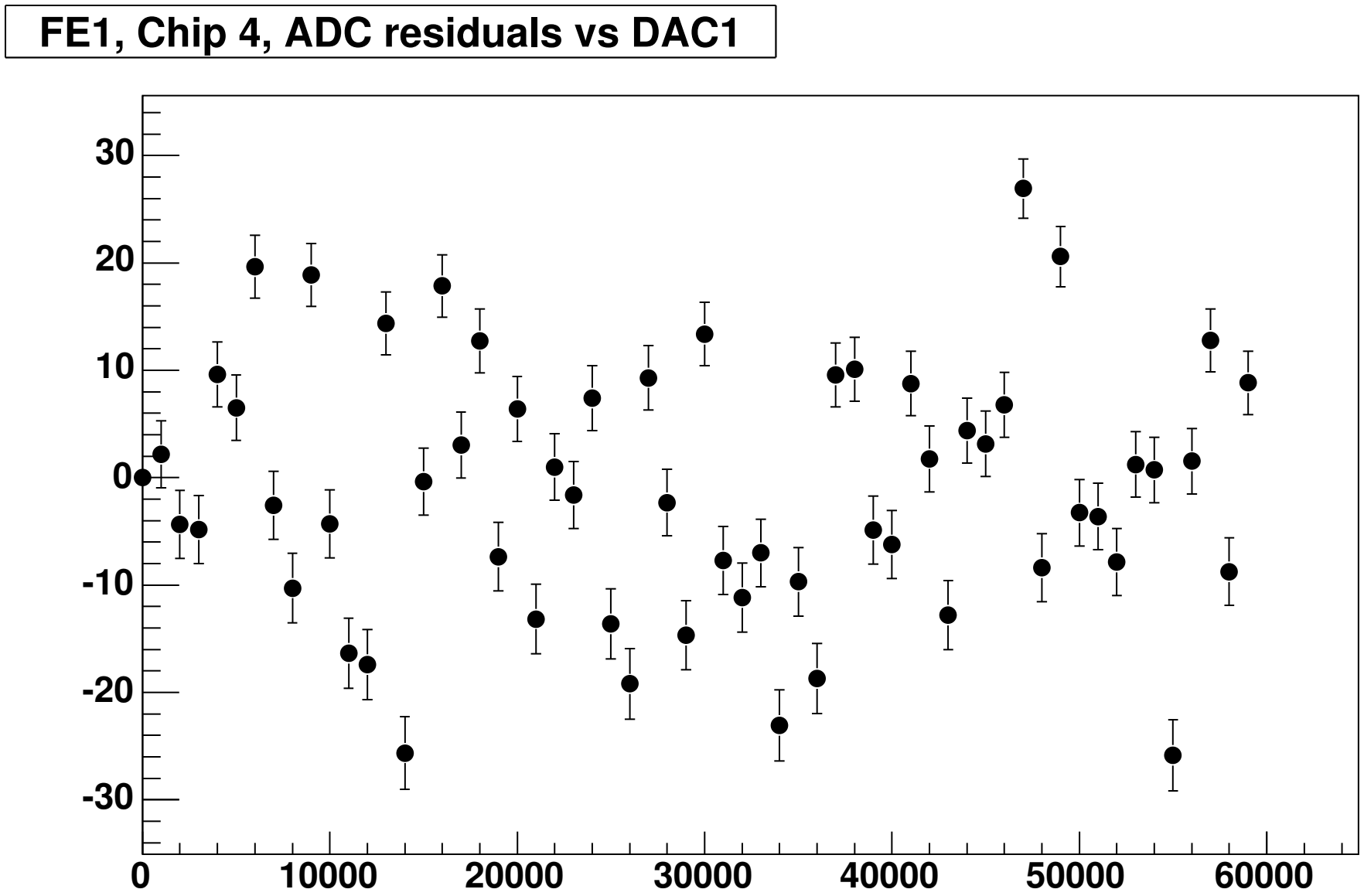
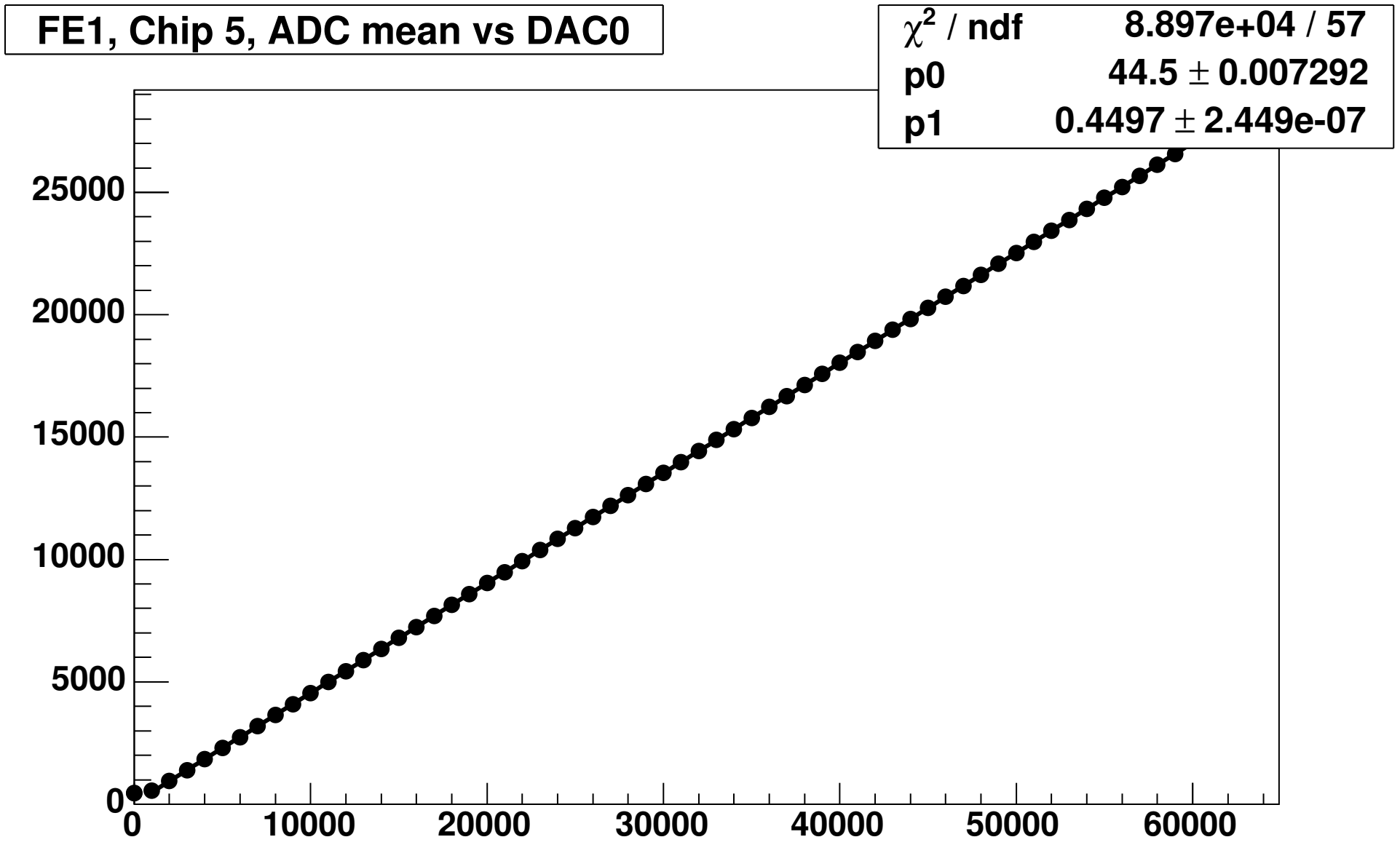
10000
20000
30000
40000
50000
60000

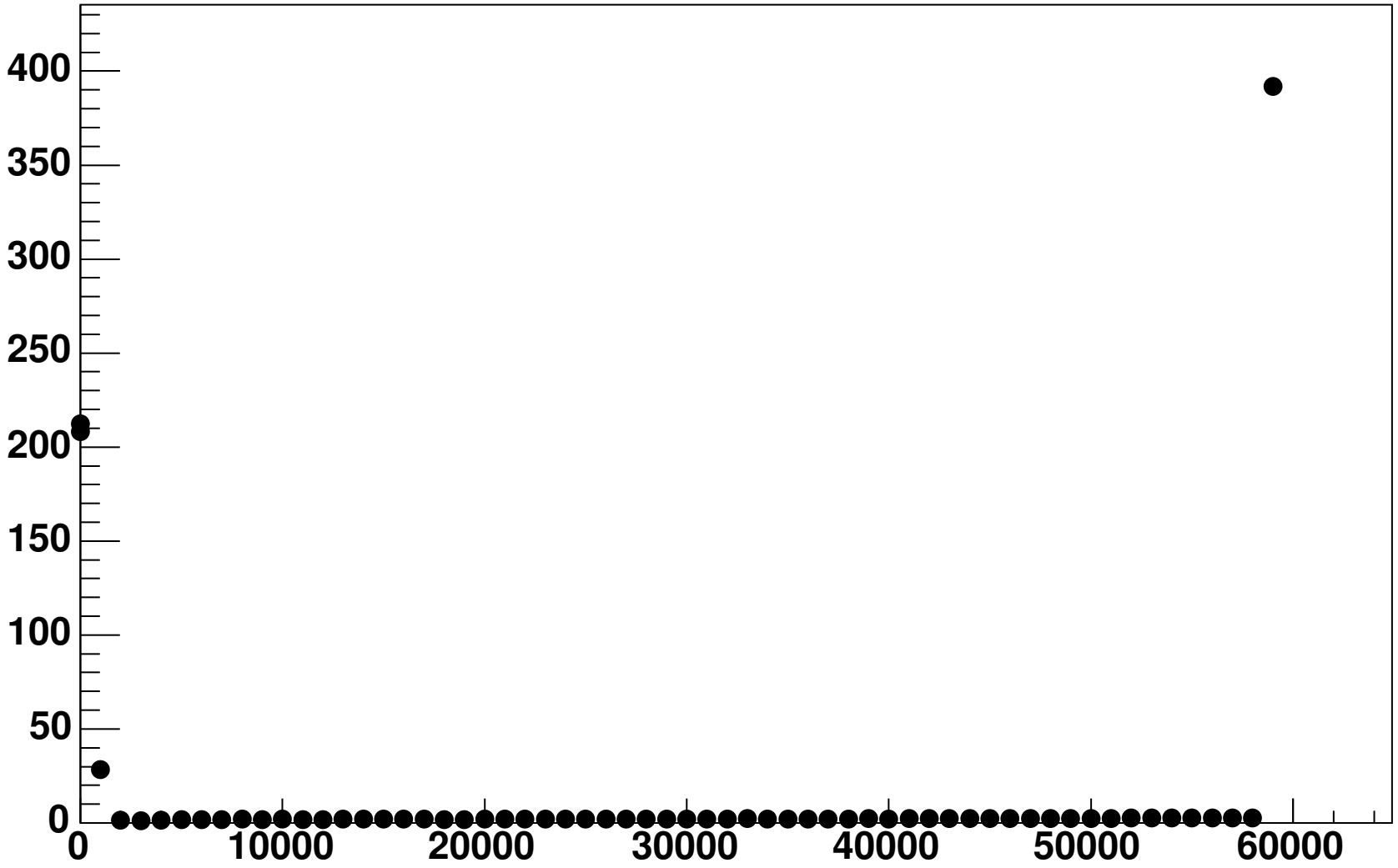

FE1, Chip 4, ADC mean vs DAC1
χ² / ndf 882.3 / 57
p0 458 ± 0.8178
p1 9.434e-05 ± 2.354e-05
490
480
470
460
450
440
430
0
10000
20000
30000
40000
50000
60000

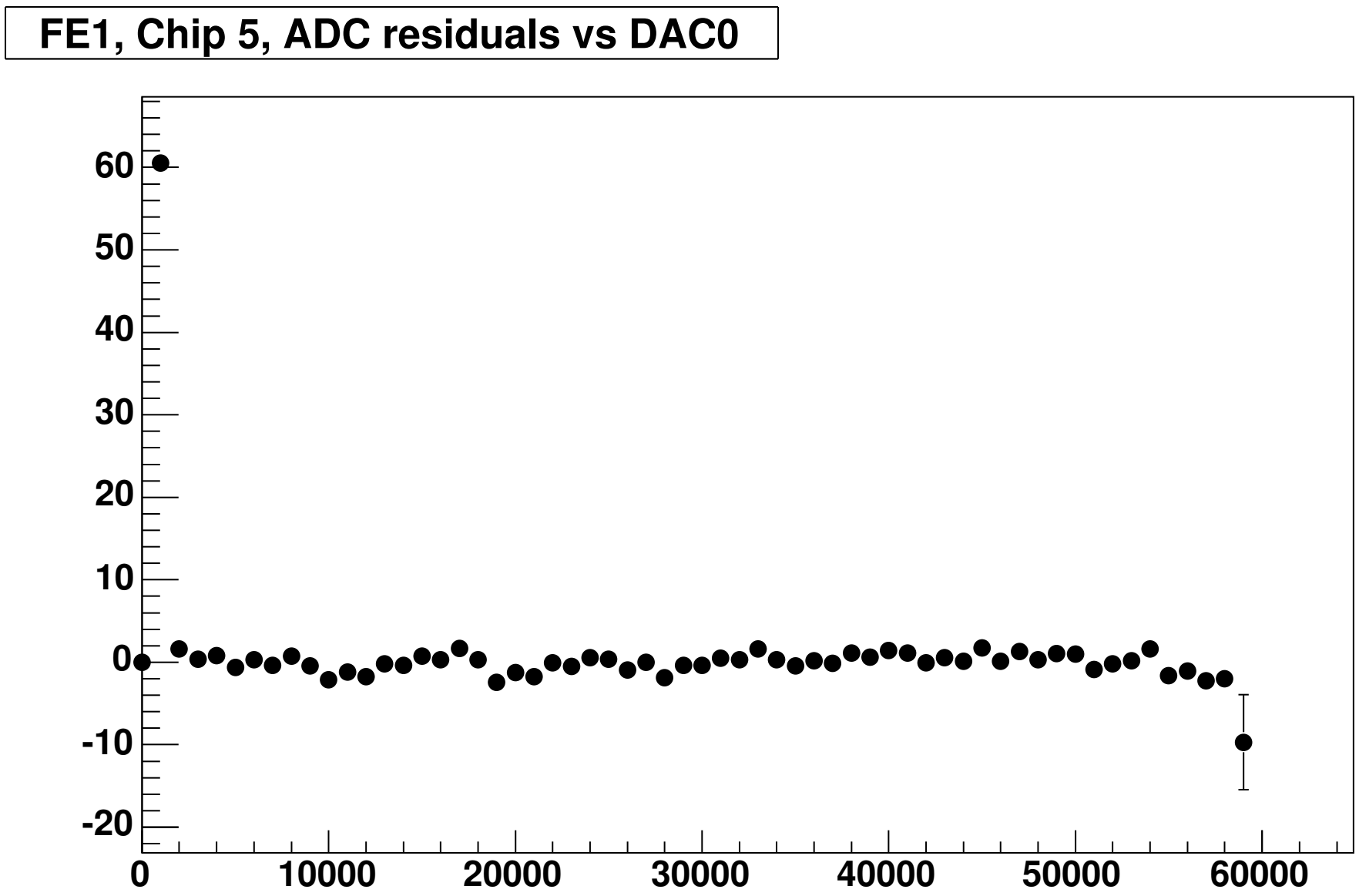

FE1, Chip 4, ADC noise vs DAC1
230
220
210
200
190
0
10000
20000
30000
40000
50000
60000

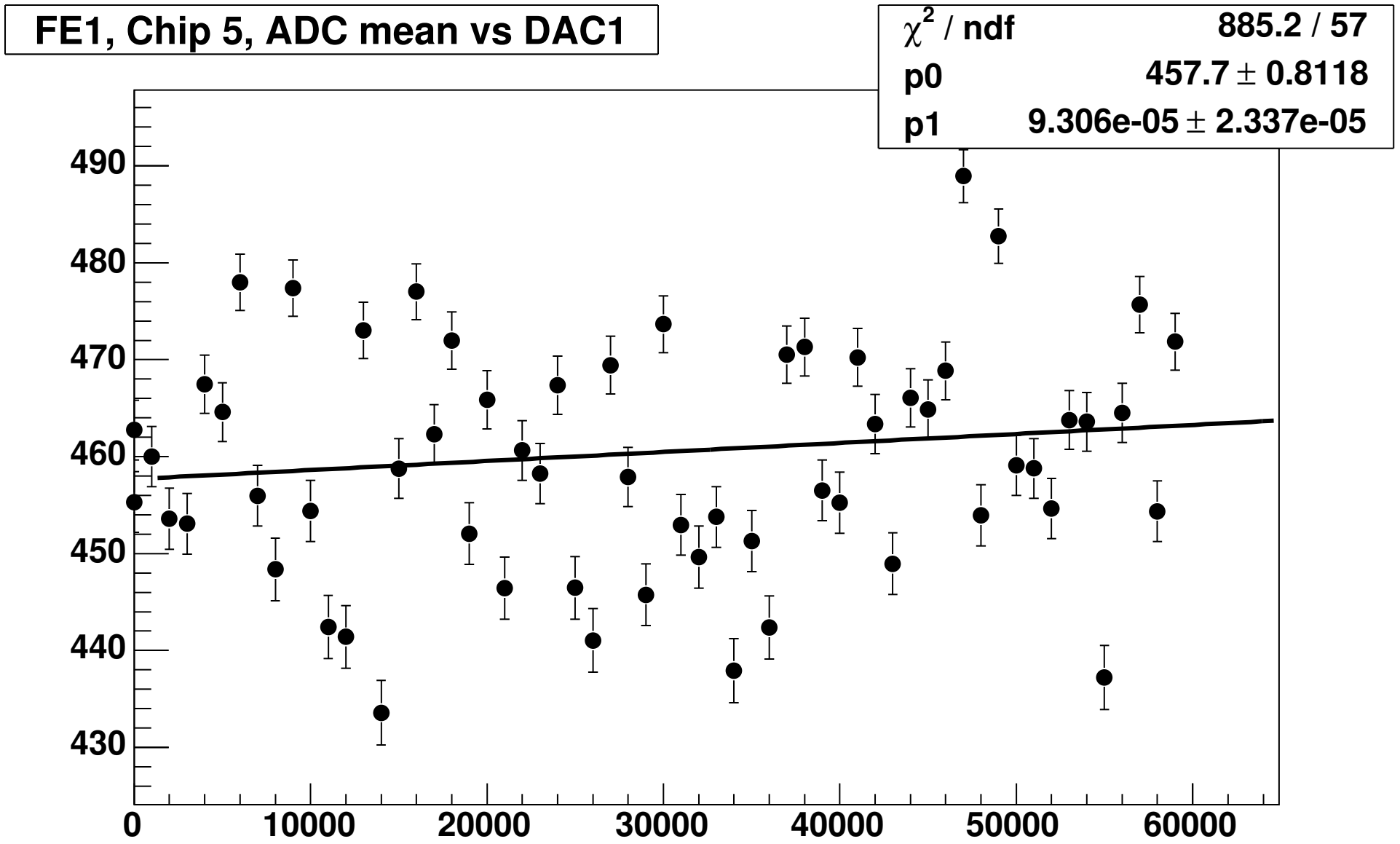

FE1, Chip 4, ADC residuals vs DAC1
30
20
10
0
-10
-20
-30
0
10000
20000
30000
40000
50000
60000

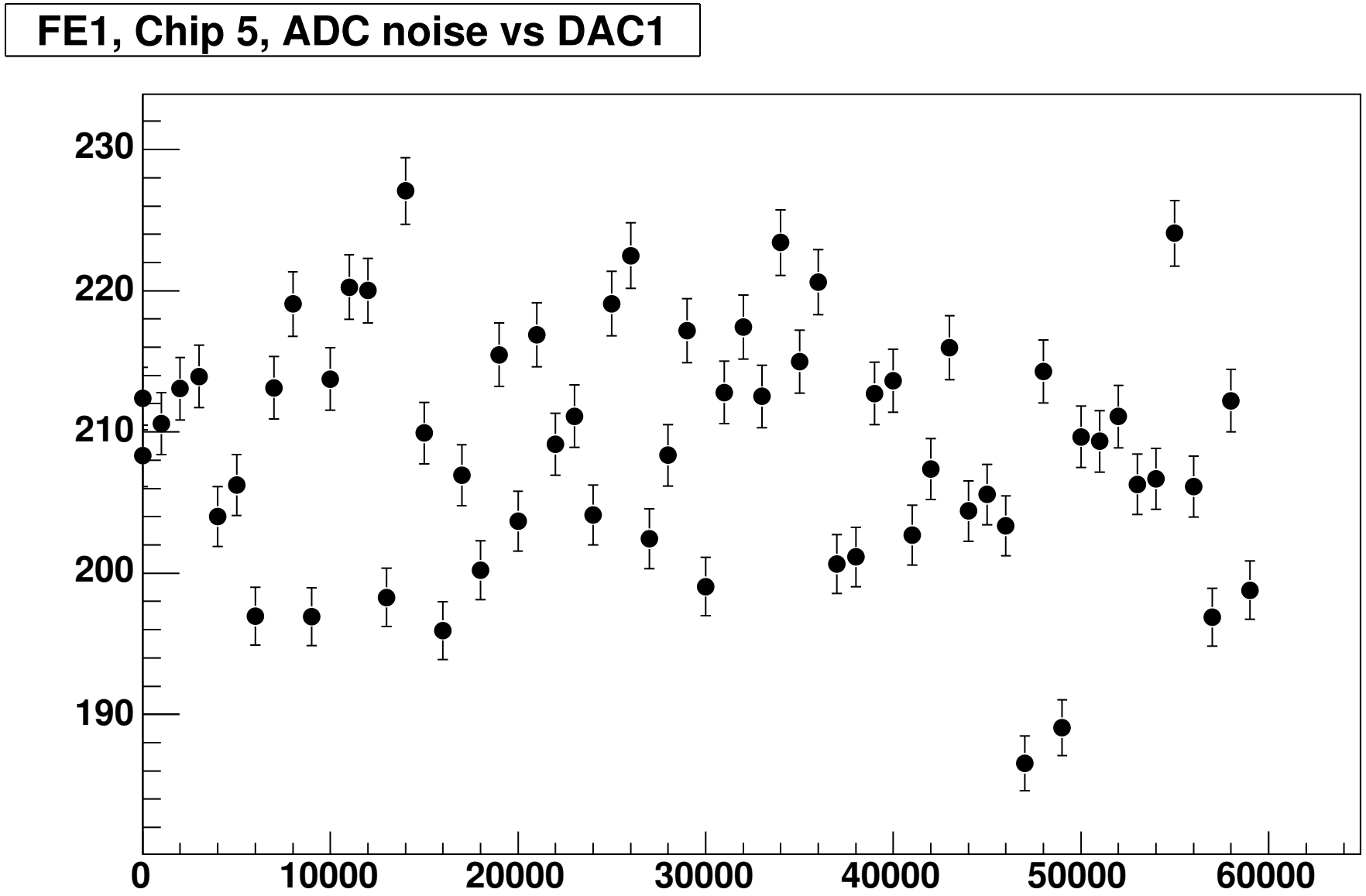

FE1, Chip 5, ADC mean vs DAC0
χ² / ndf 8.897e+04 / 57
p0 44.5 ± 0.007292
p1 0.4497 ± 2.449e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

FE1, Chip 5, ADC noise vs DAC0

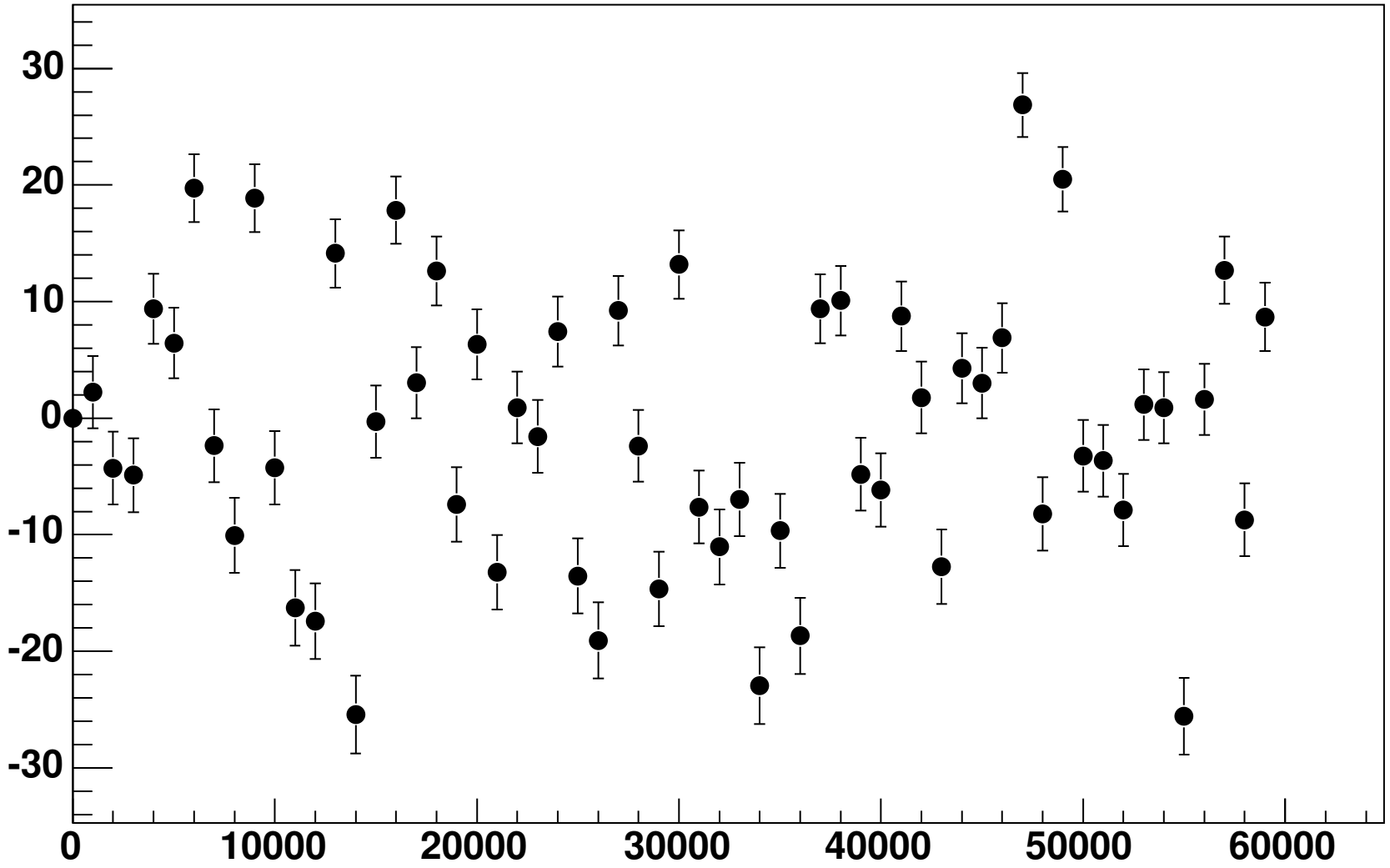


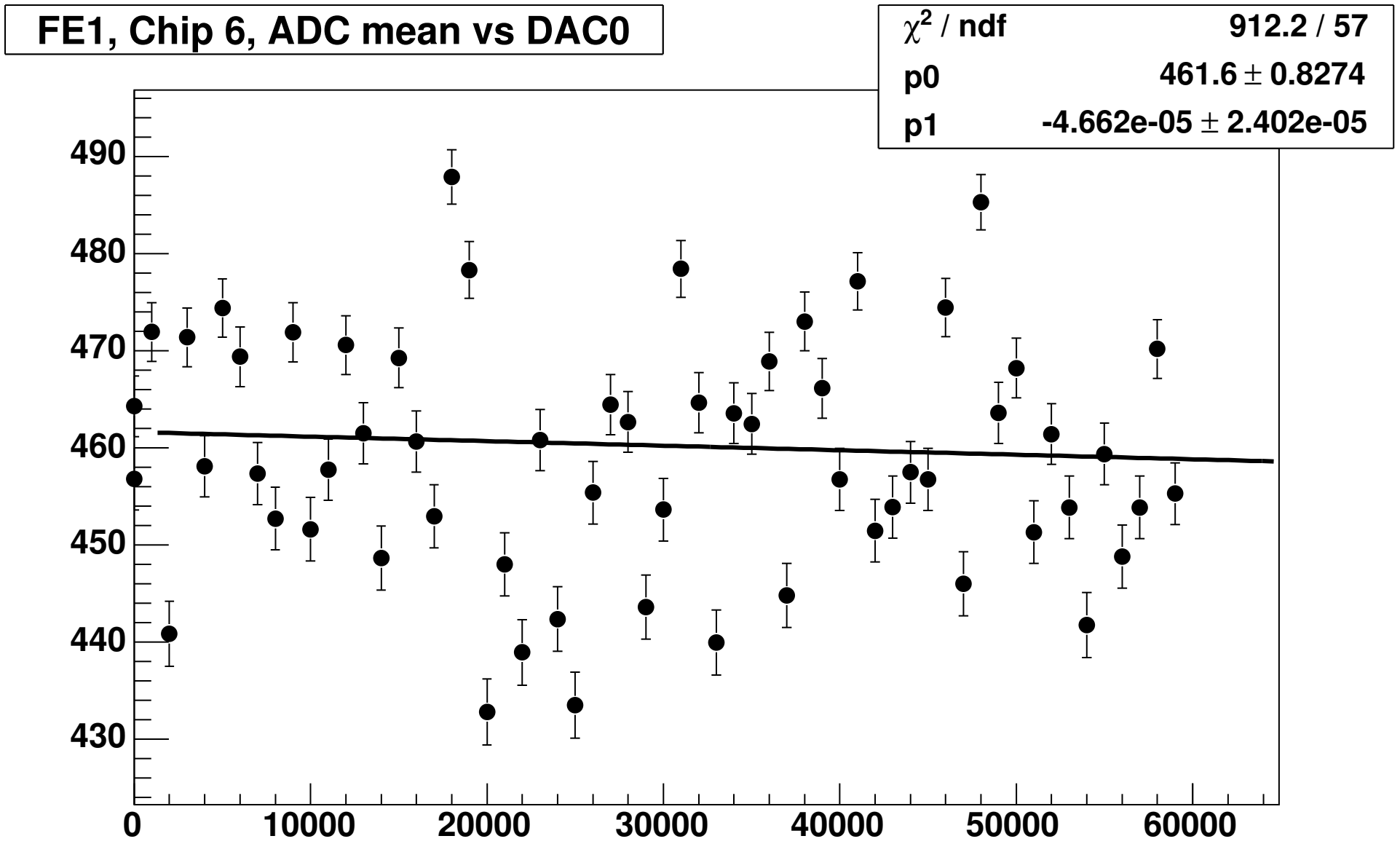

FE1, Chip 5, ADC residuals vs DAC0
60
50
40
30
20
10
0
-10
-20
0
10000
20000
30000
40000
50000
60000

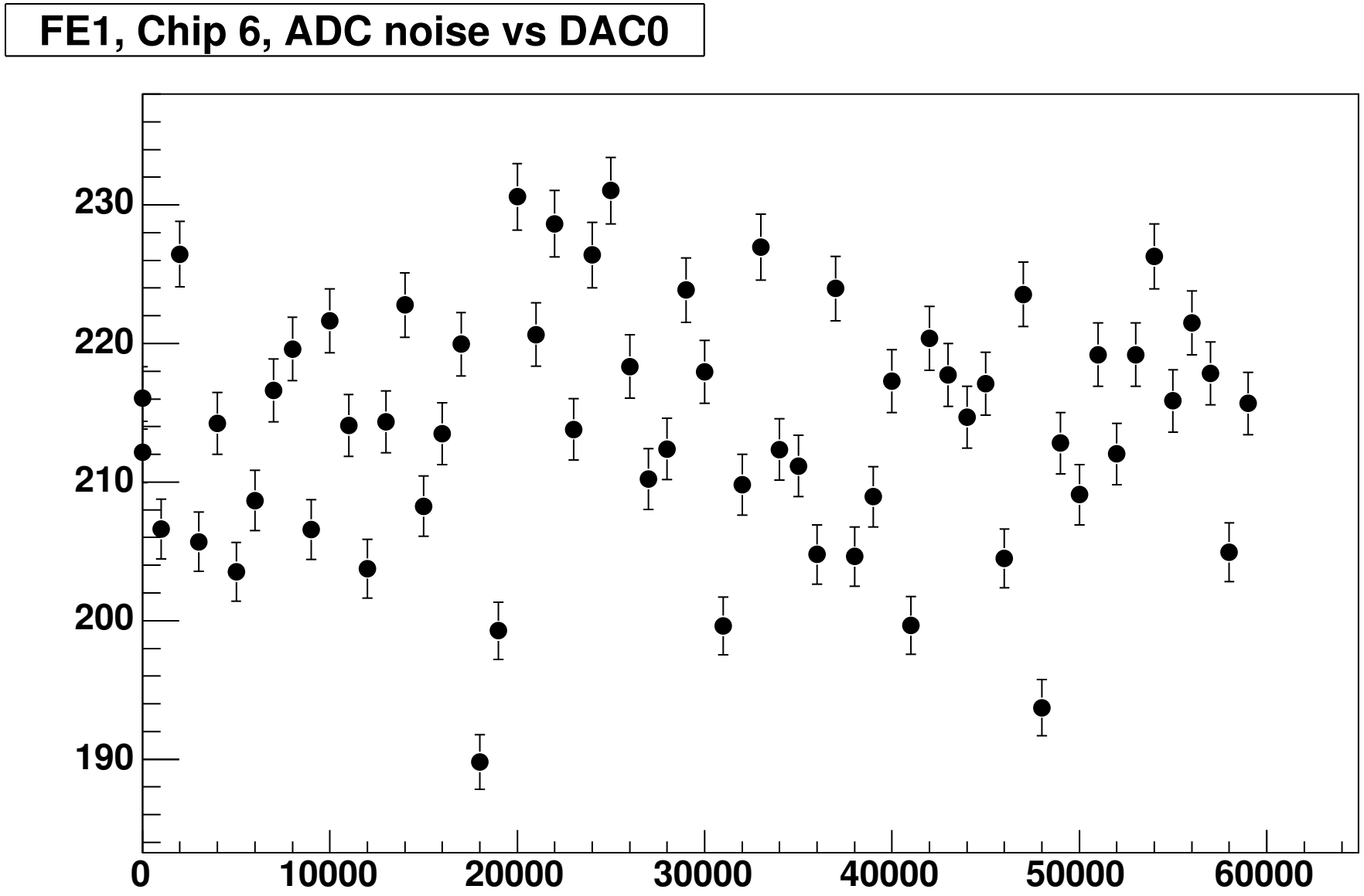

FE1, Chip 5, ADC mean vs DAC1
χ² / ndf 885.2 / 57
p0 457.7 ± 0.8118
p1 9.306e-05 ± 2.337e-05
490
480
470
460
450
440
430
0
10000
20000
30000
40000
50000
60000

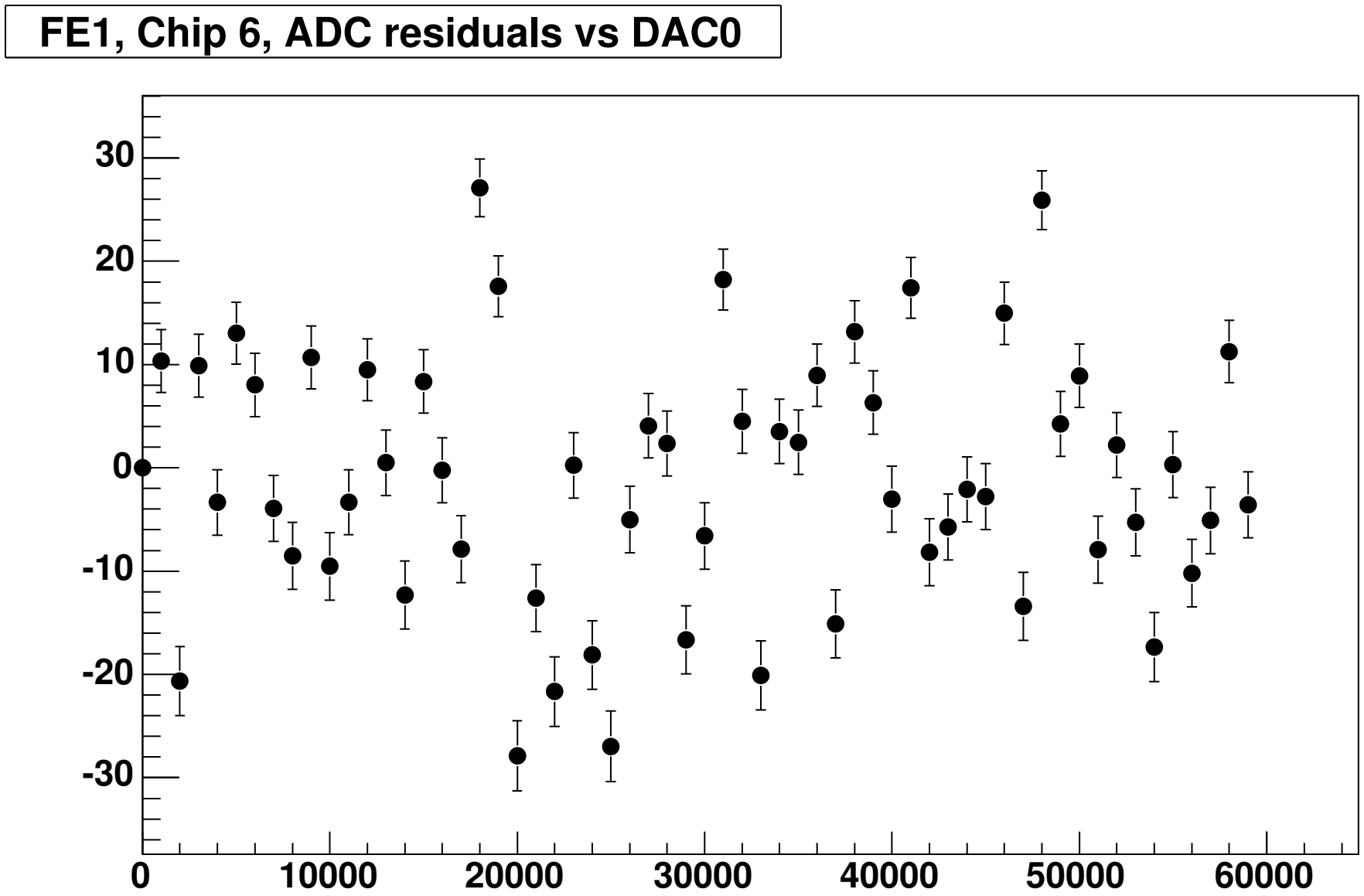

FE1, Chip 5, ADC noise vs DAC1
230
220
210
200
190
0
10000
20000
30000
40000
50000
60000

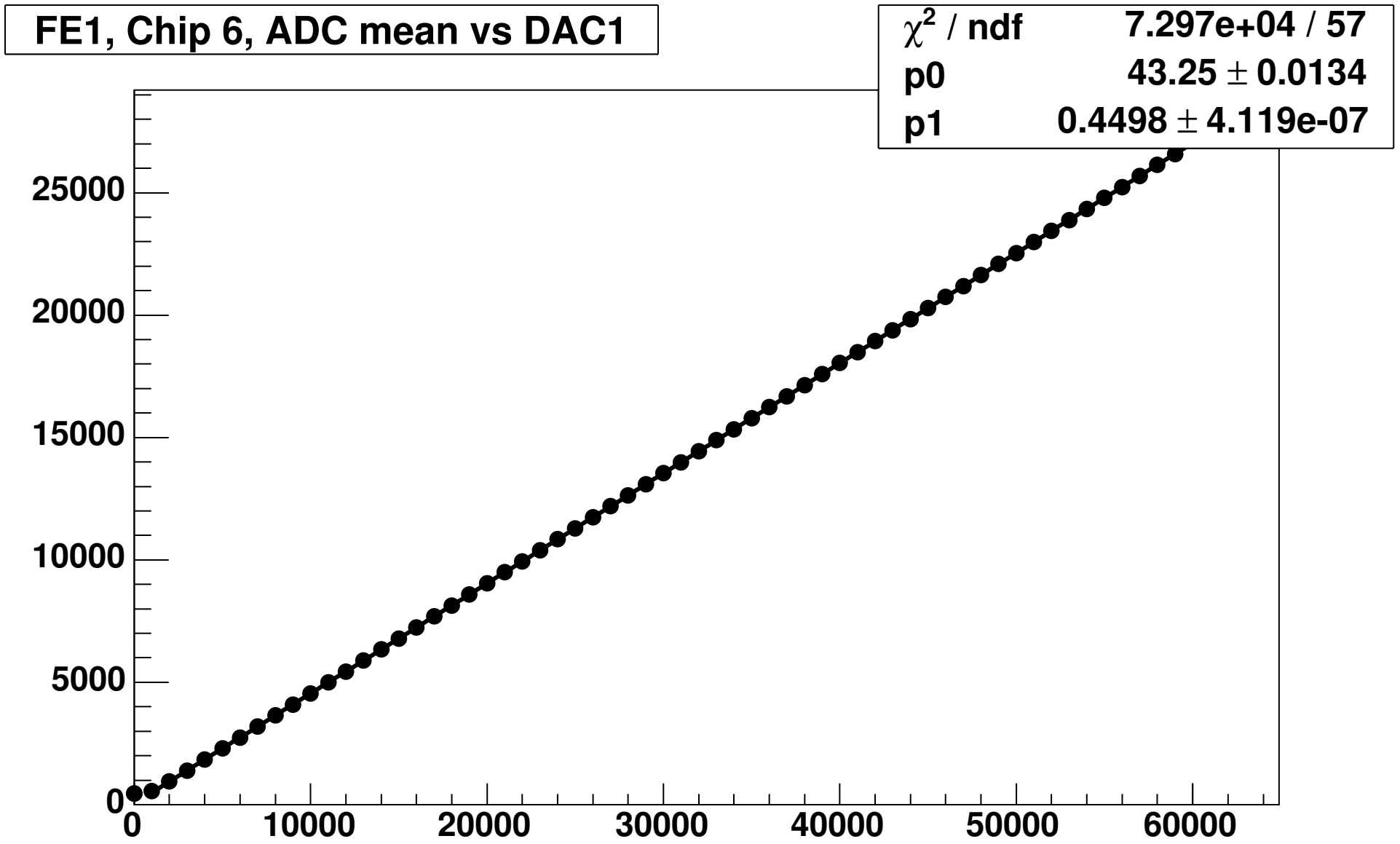
FE1, Chip 5, ADC residuals vs DAC1



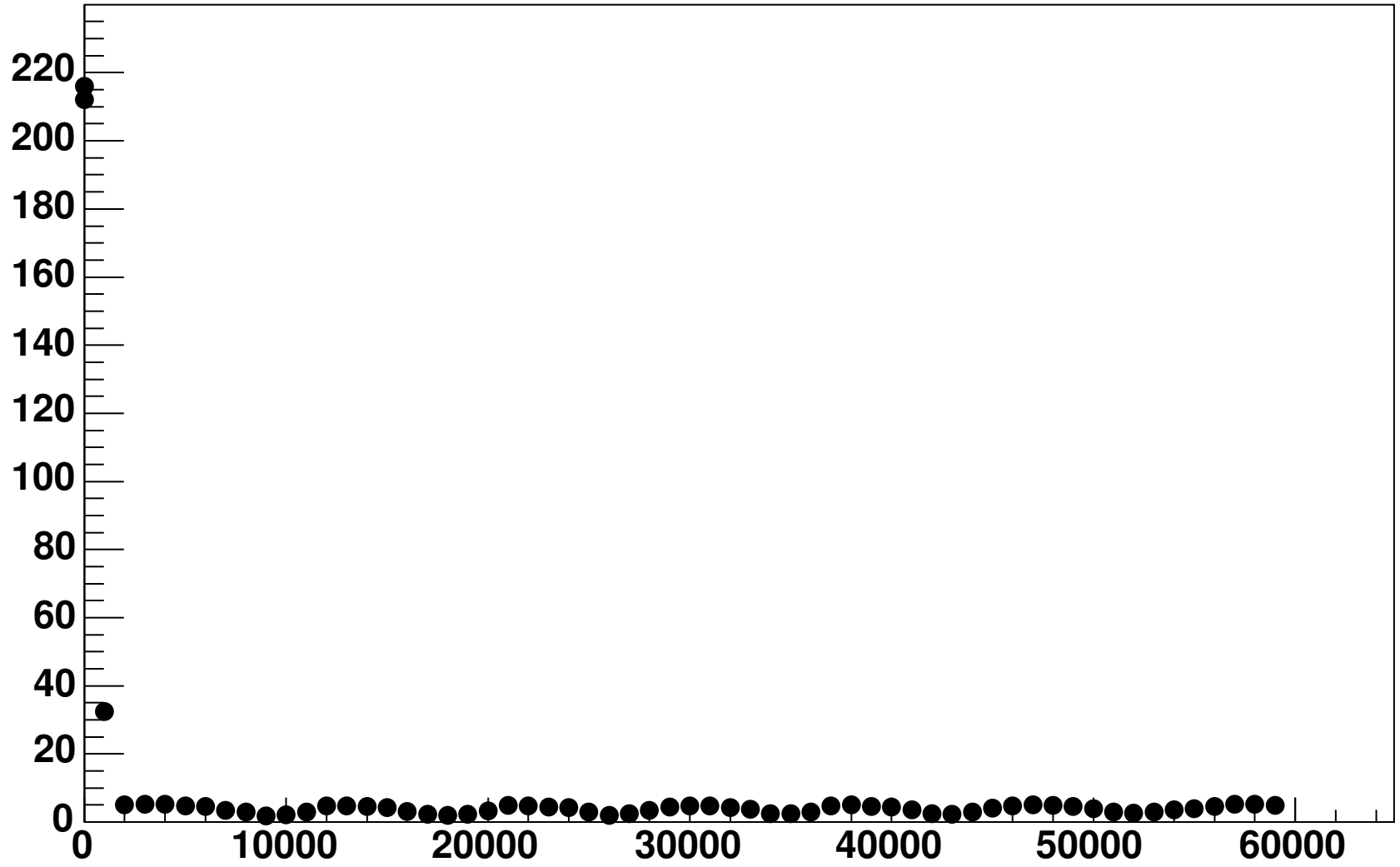

FE1, Chip 6, ADC mean vs DAC0
χ² / ndf 912.2 / 57
p0 461.6 ± 0.8274
p1 -4.662e-05 ± 2.402e-05
490
480
470
460
450
440
430
0
10000
20000
30000
40000
50000
60000


FE1, Chip 6, ADC noise vs DAC0
230
220
210
200
190
0
10000
20000
30000
40000
50000
60000

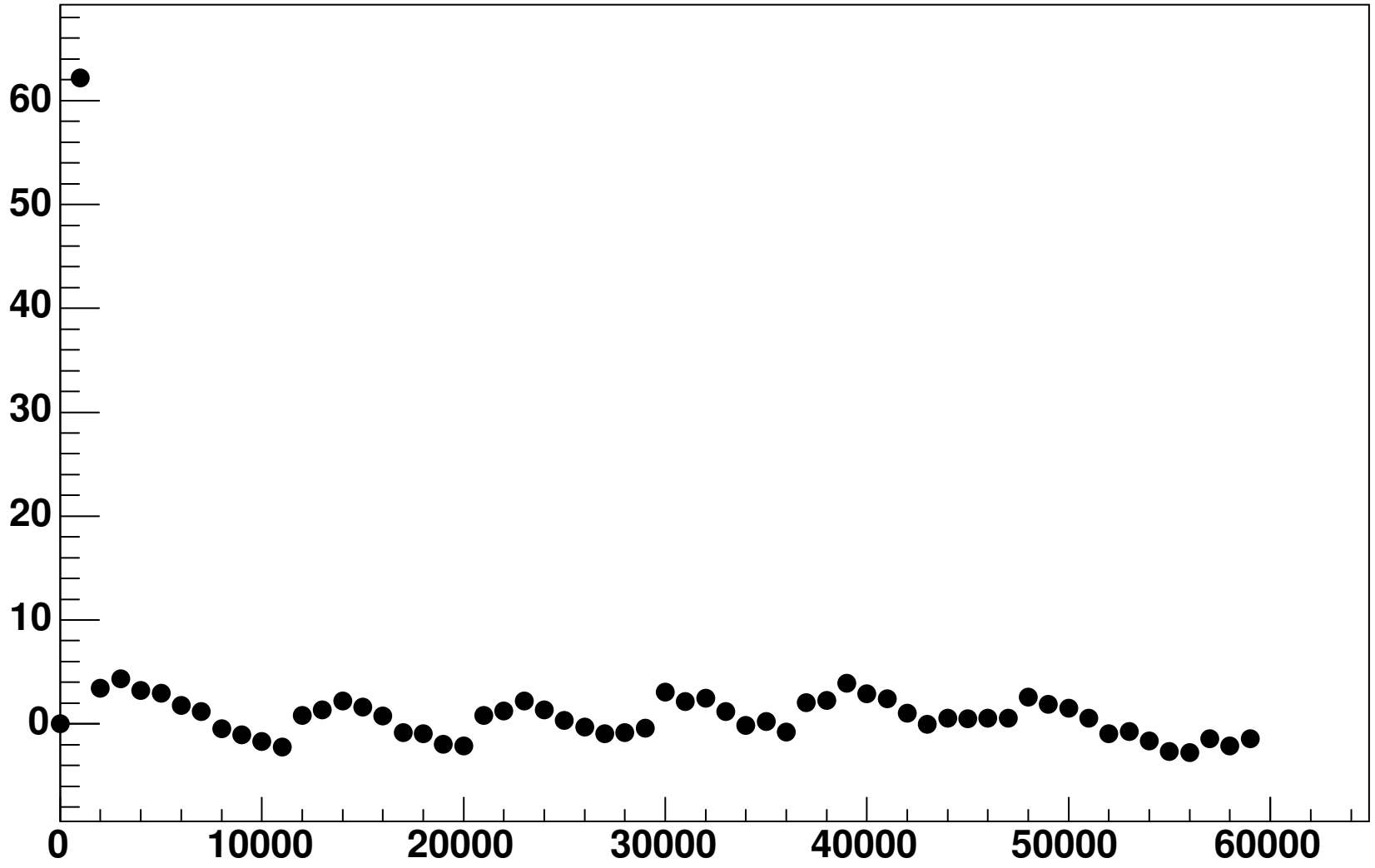

FE1, Chip 6, ADC residuals vs DAC0
30
20
10
0
-10
-20
-30
0
10000
20000
30000
40000
50000
60000

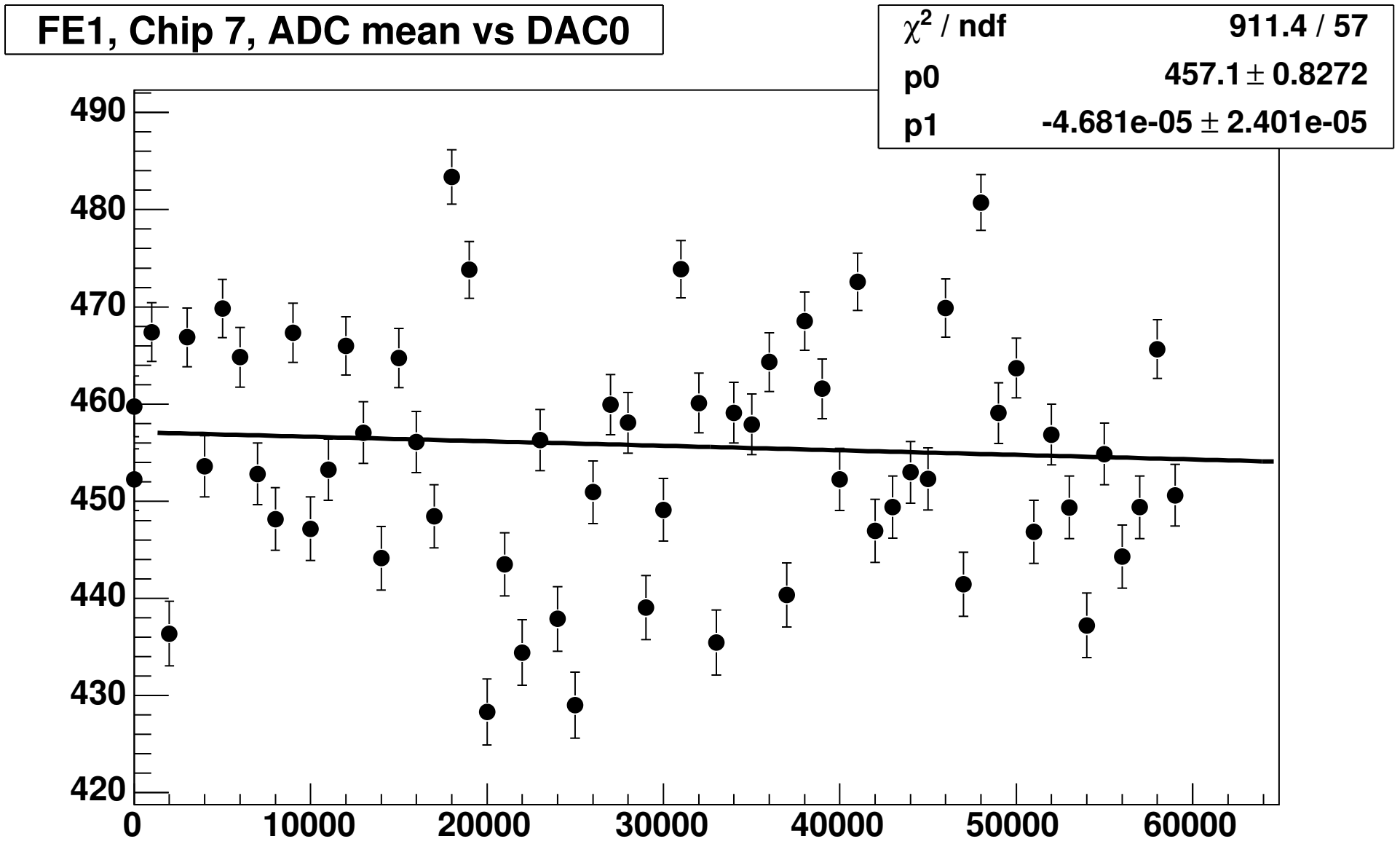

FE1, Chip 6, ADC mean vs DAC1
χ² / ndf 7.297e+04 / 57
p0 43.25 ± 0.0134
p1 0.4498 ± 4.119e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

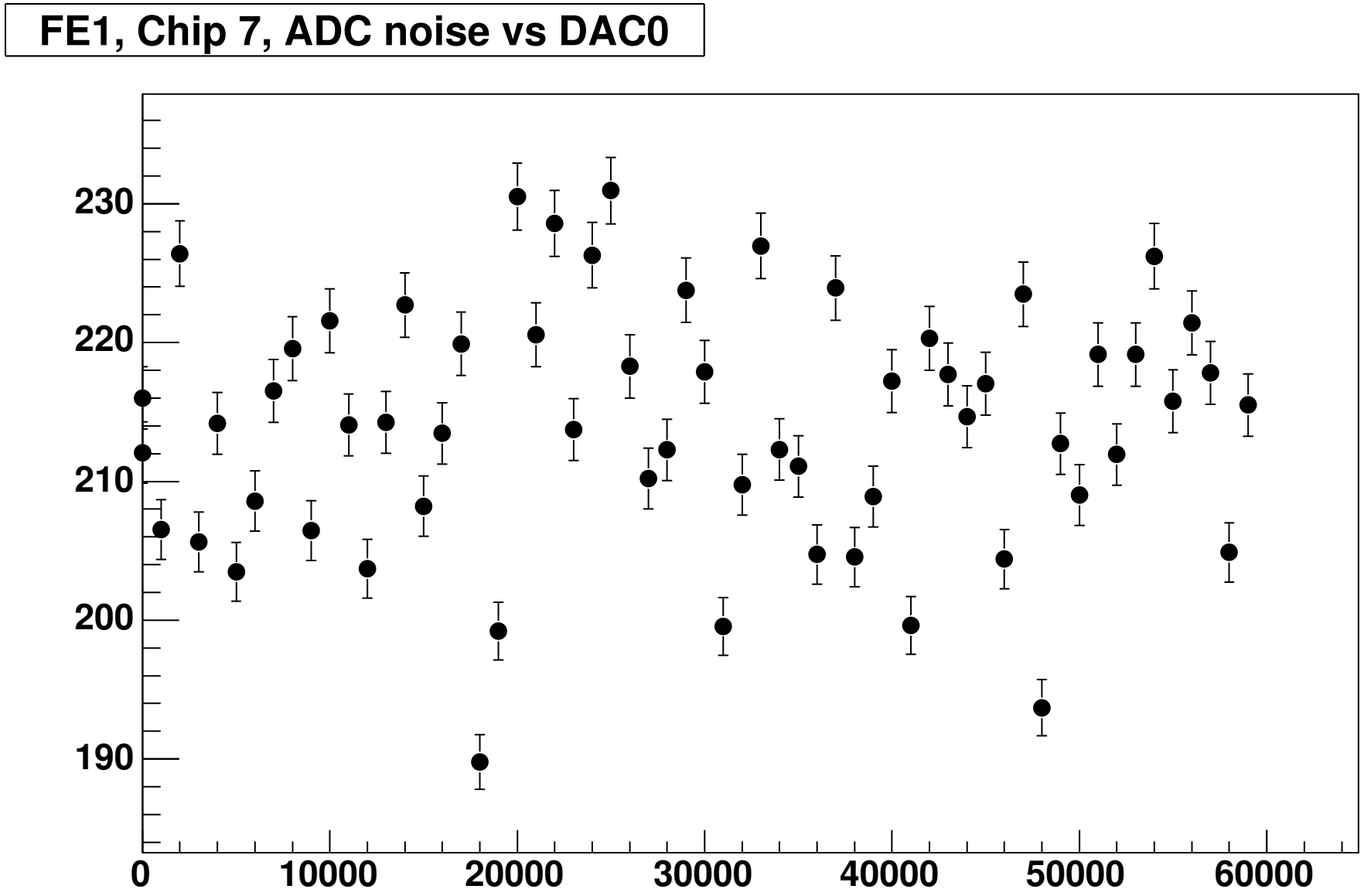
FE1, Chip 6, ADC noise vs DAC1



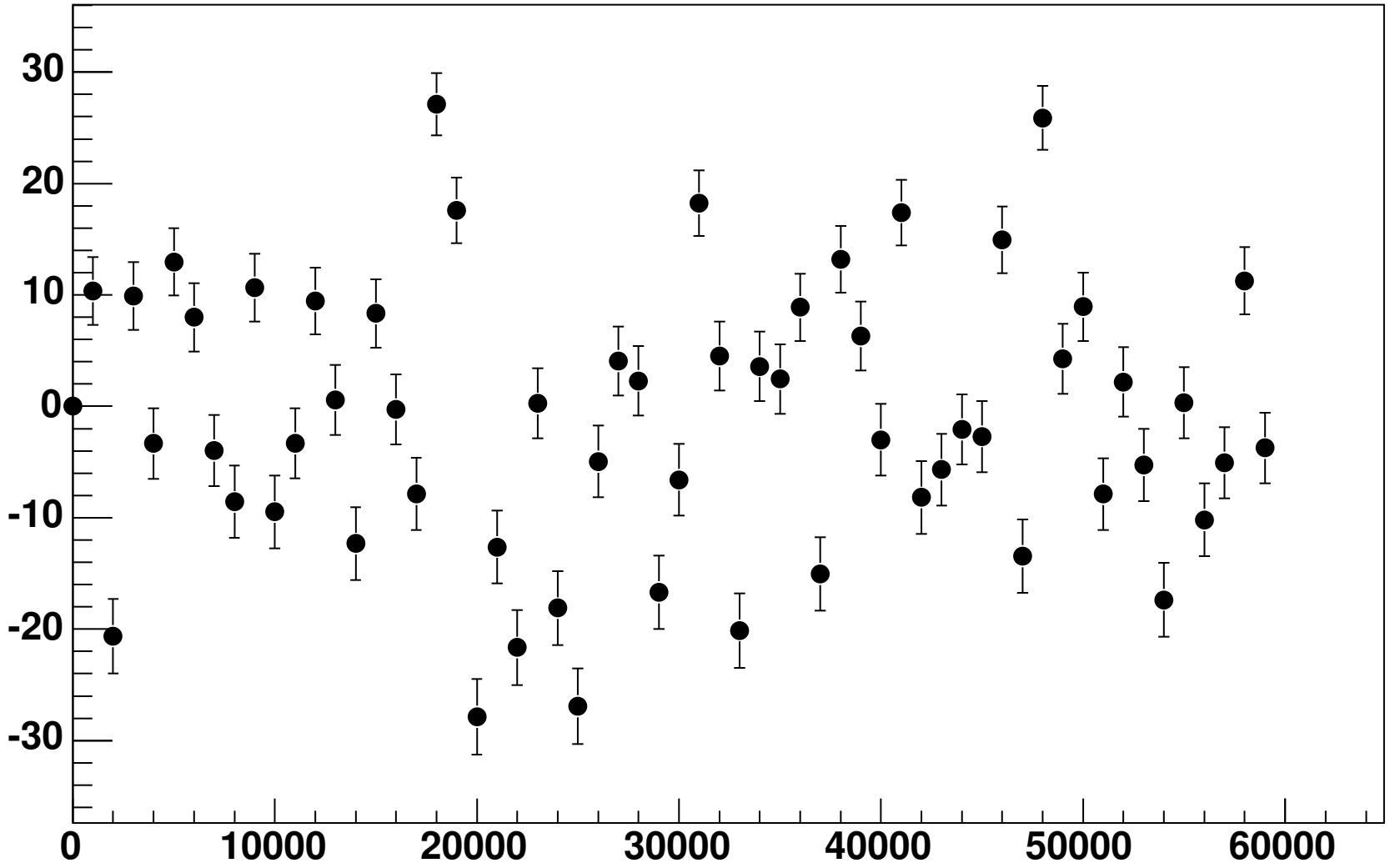
FE1, Chip 6, ADC residuals vs DAC1

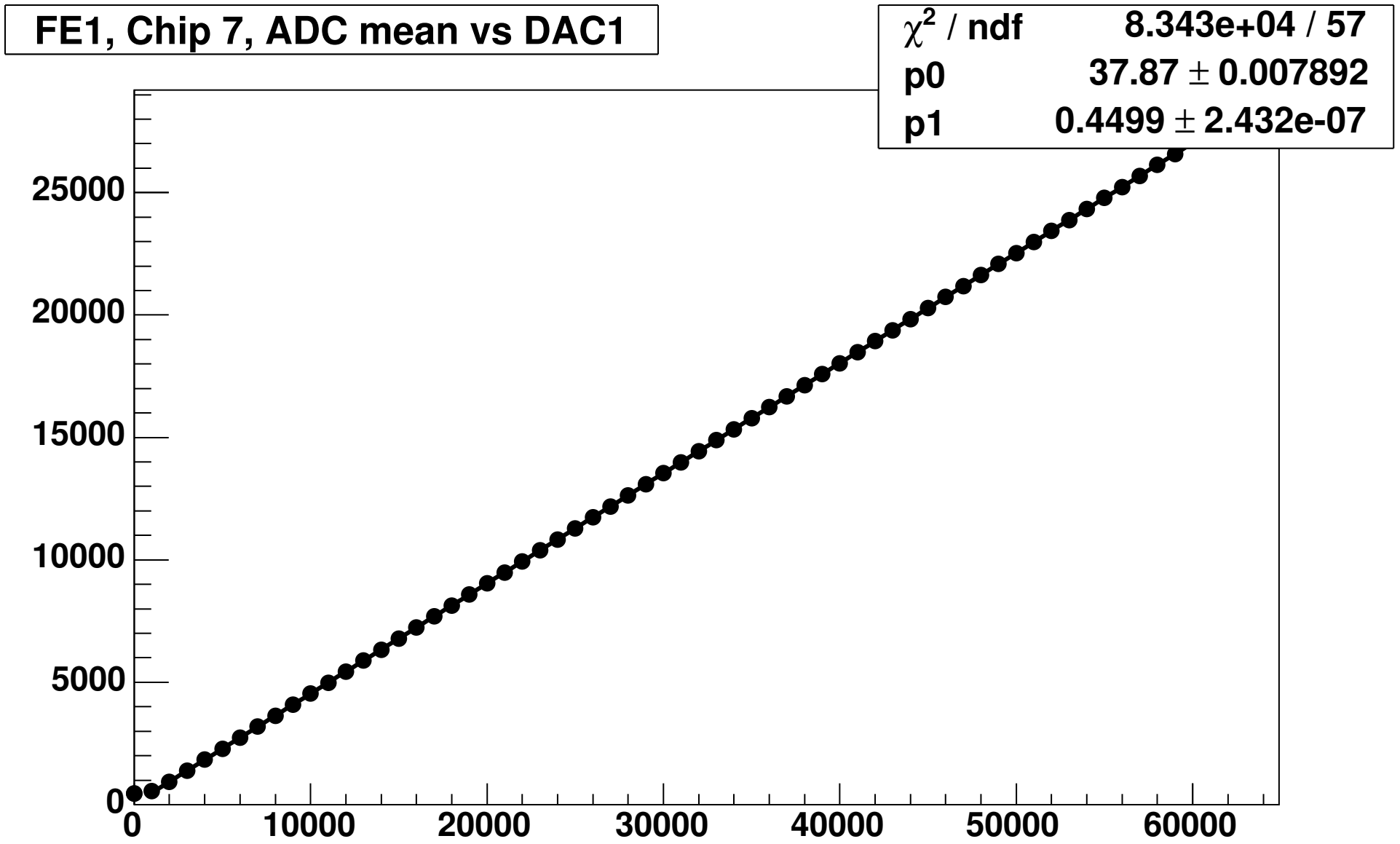



FE1, Chip 7, ADC mean vs DAC0
χ² / ndf 911.4 / 57
p0 457.1 ± 0.8272
p1 -4.681e-05 ± 2.401e-05
490
480
470
460
450
440
430
420
0
10000
20000
30000
40000
50000
60000

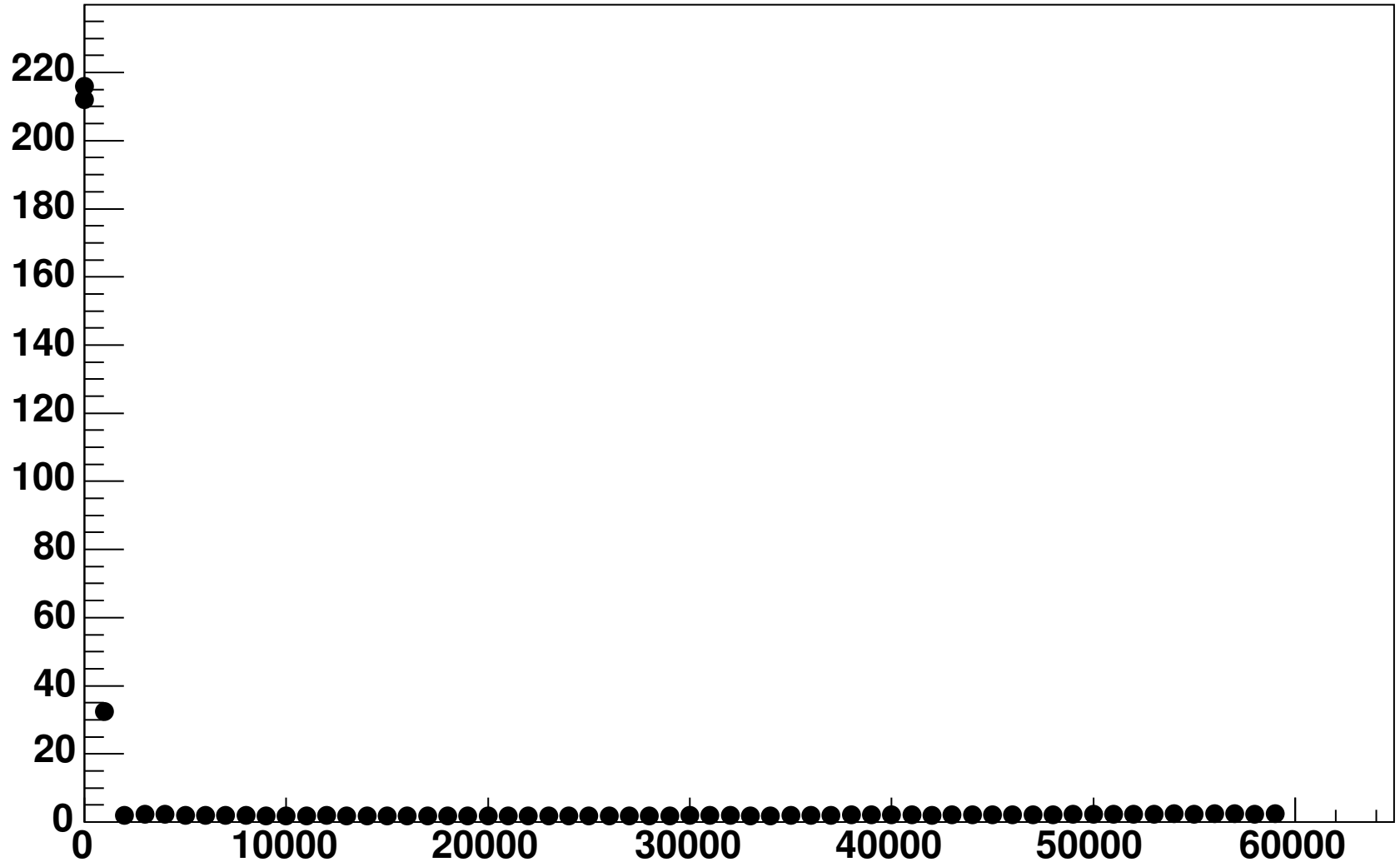

FE1, Chip 7, ADC noise vs DAC0
230
220
210
200
190
0
10000
20000
30000
40000
50000
60000

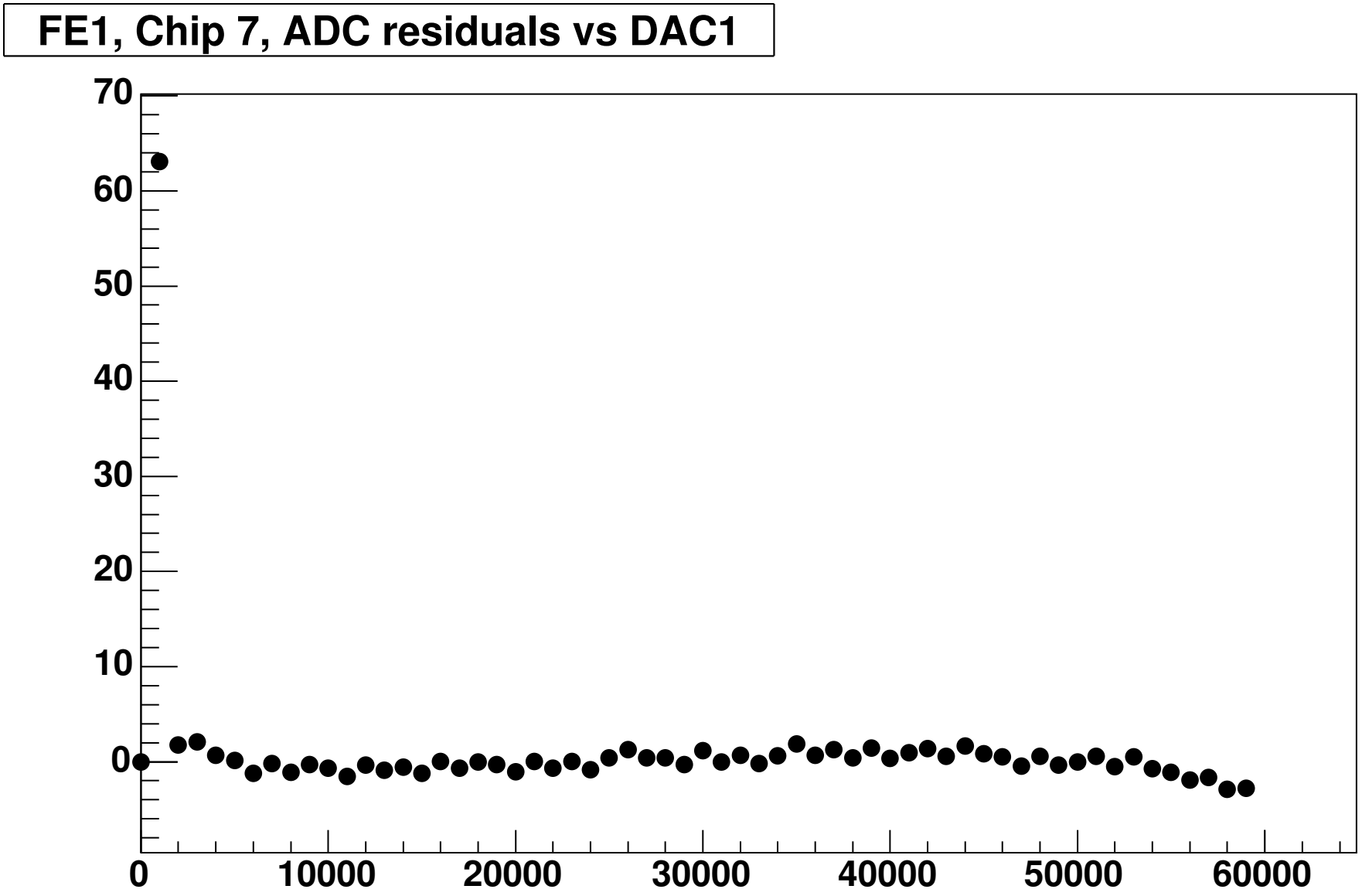
FE1, Chip 7, ADC residuals vs DAC0

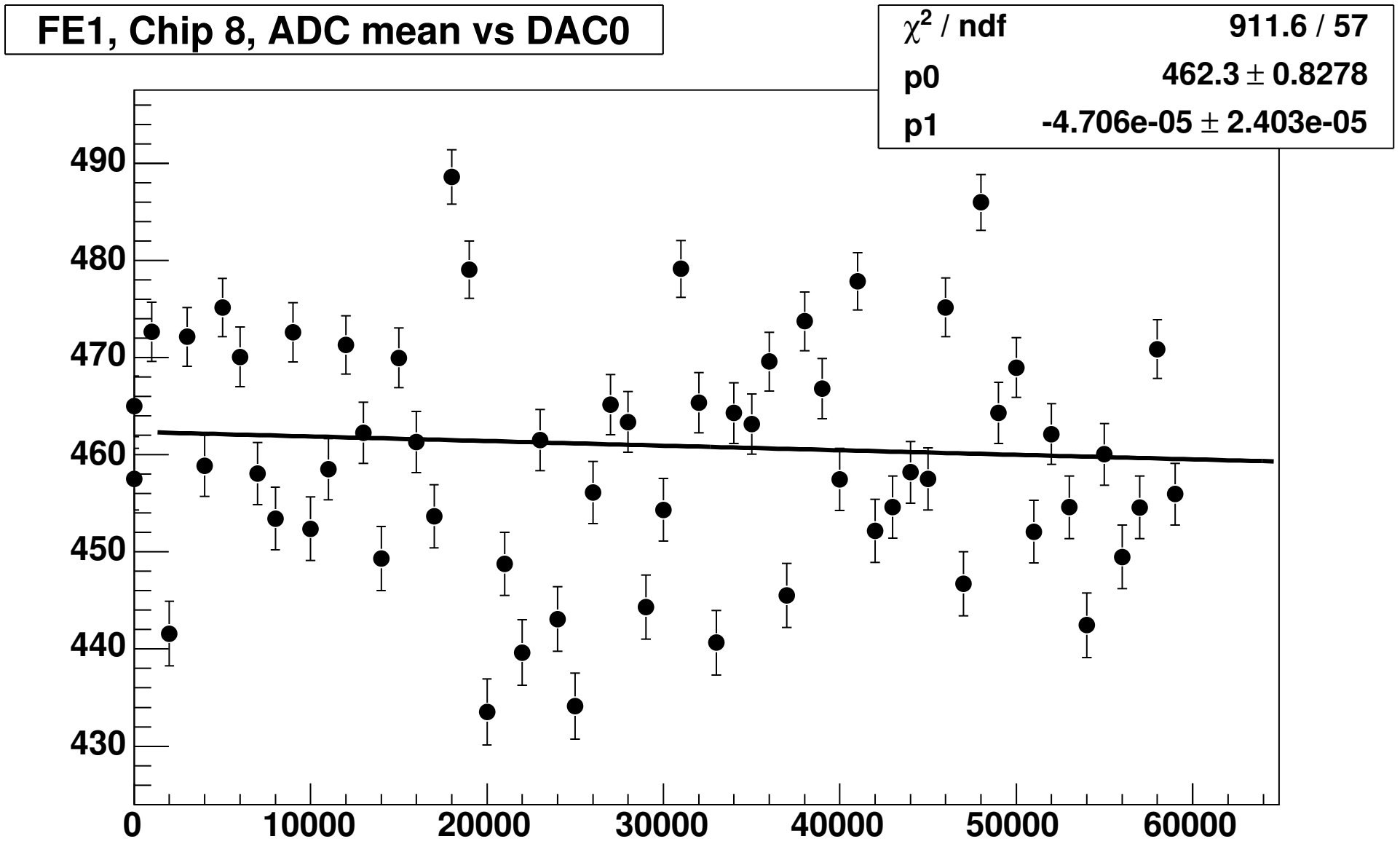


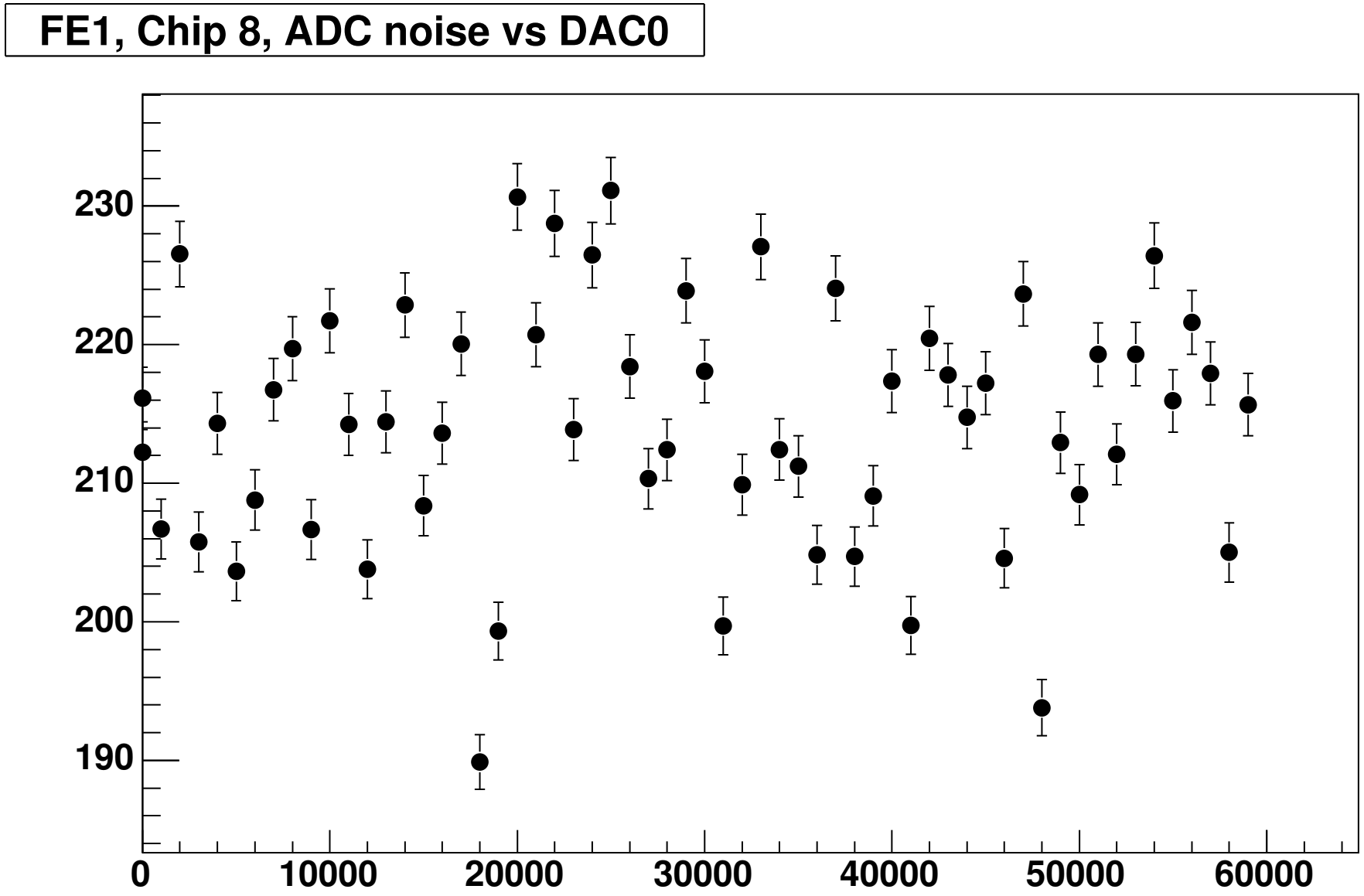

FE1, Chip 7, ADC mean vs DAC1
χ² / ndf 8.343e+04 / 57
p0 37.87 ± 0.007892
p1 0.4499 ± 2.432e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

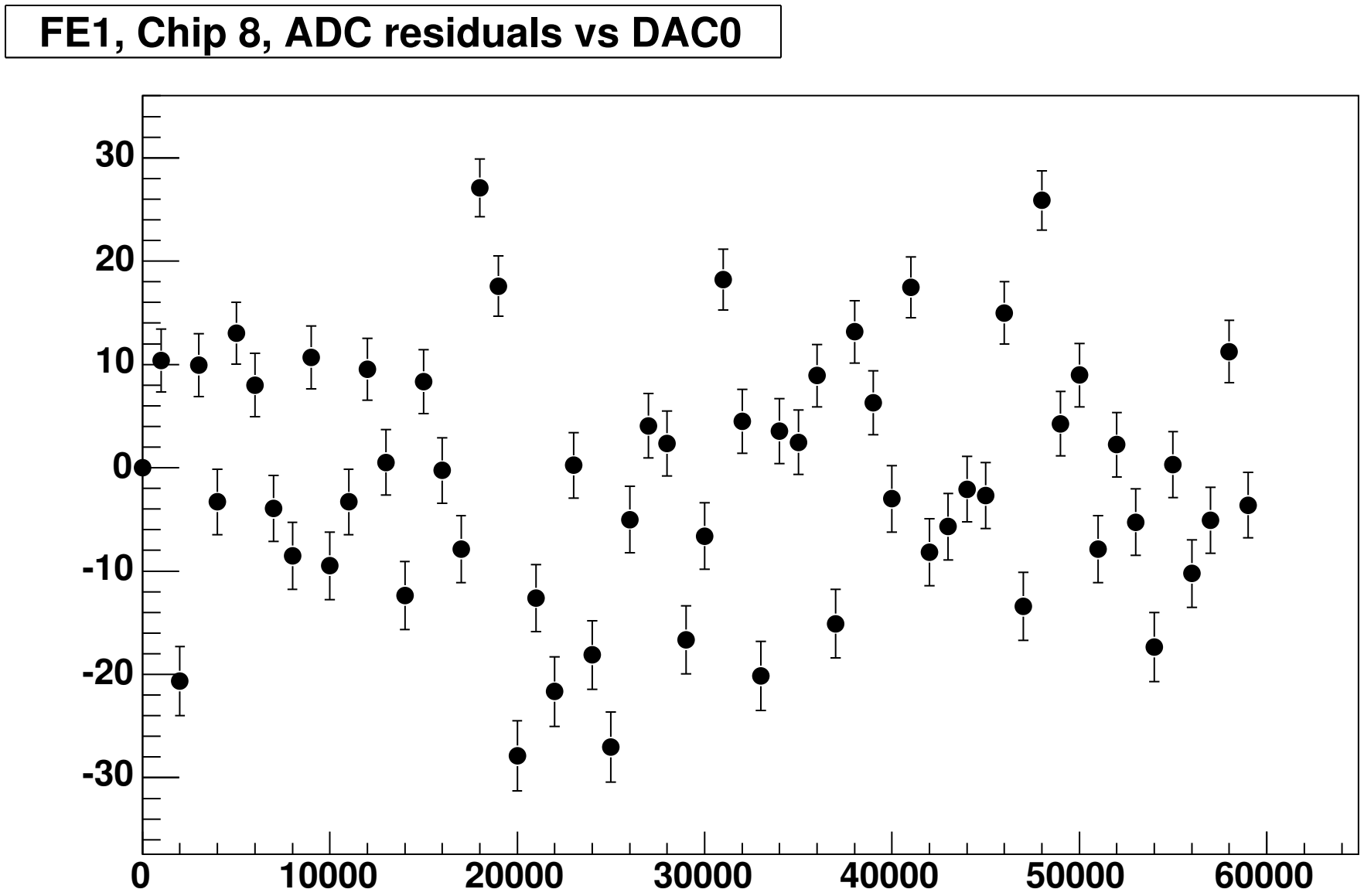
FE1, Chip 7, ADC noise vs DAC1

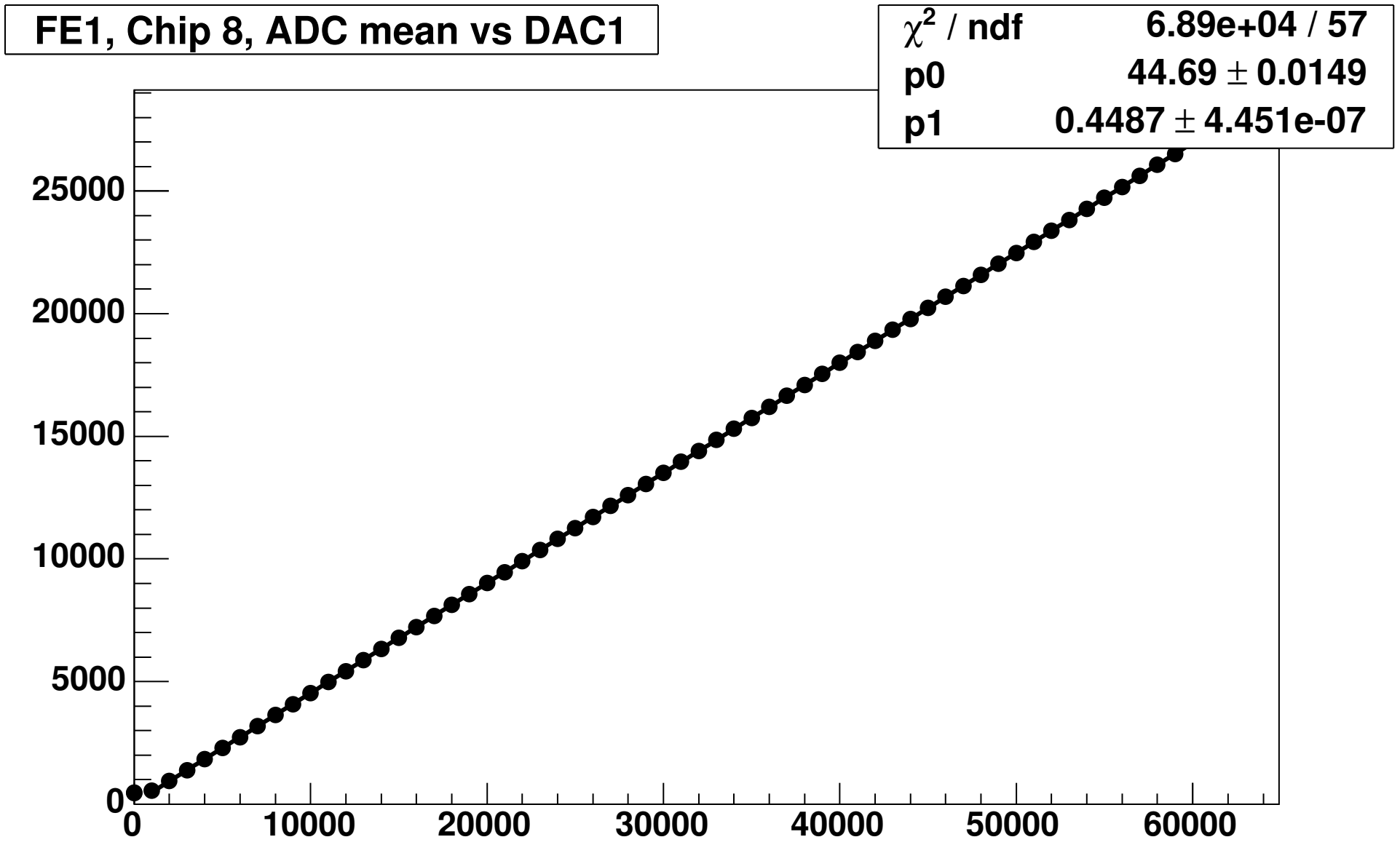


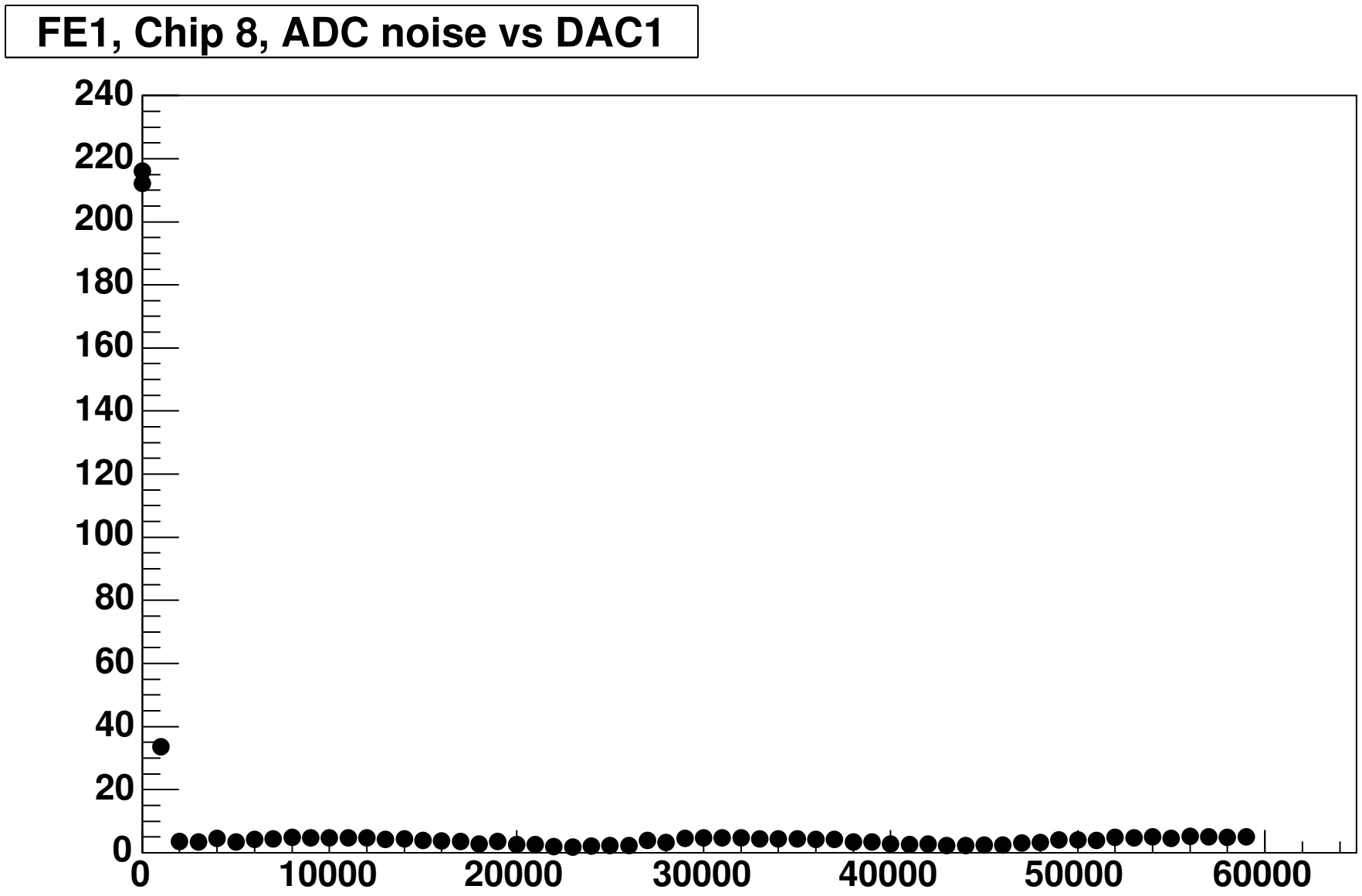

FE1, Chip 7, ADC residuals vs DAC1
70
60
50
40
30
20
10
0
0
10000
20000
30000
40000
50000
60000


FE1, Chip 8, ADC mean vs DAC0
χ^2 / ndf 911.6 / 57
p0 462.3 ± 0.8278
p1 -4.706e-05 ± 2.403e-05
490
480
470
460
450
440
430
0
10000
20000
30000
40000
50000
60000

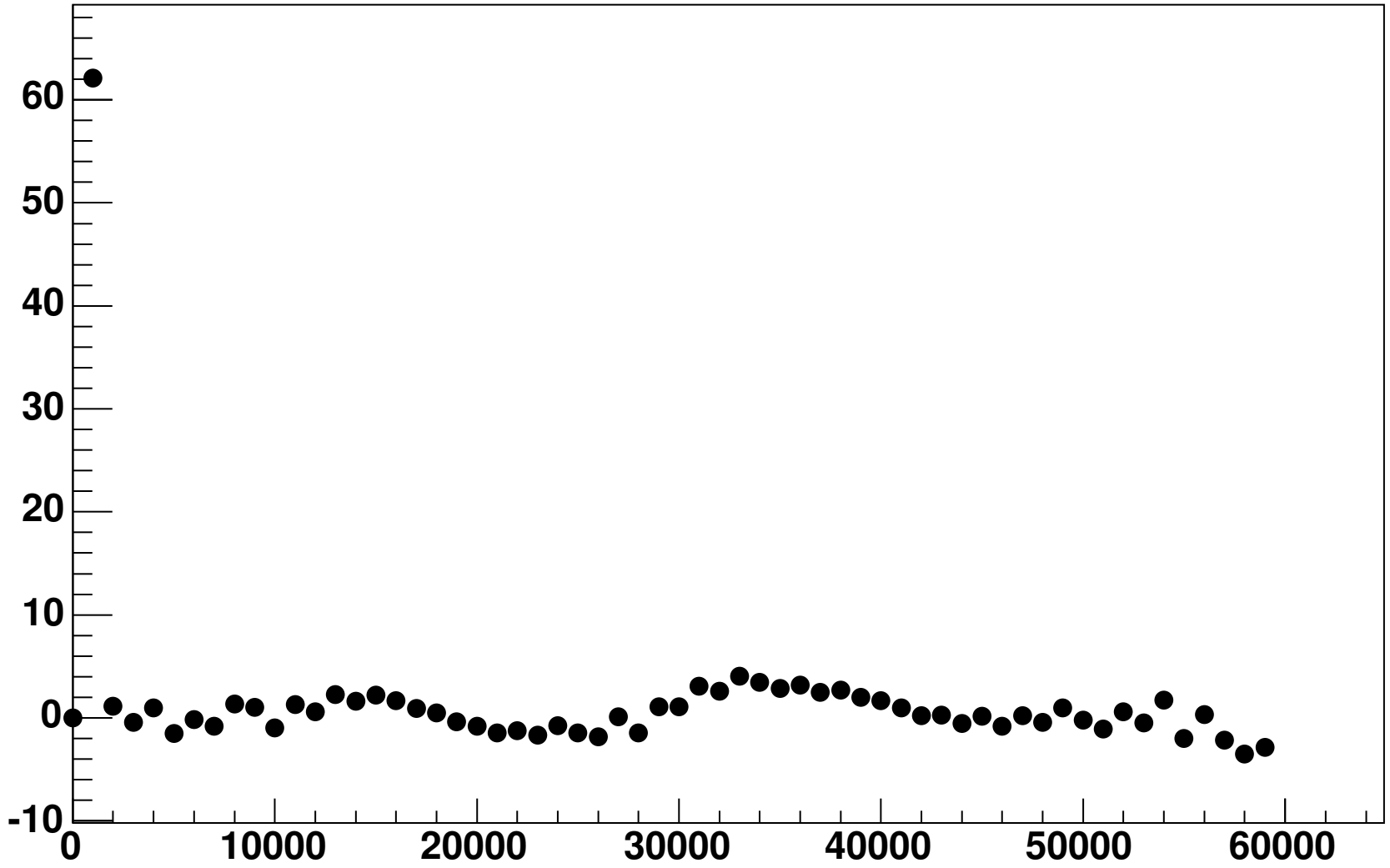

FE1, Chip 8, ADC noise vs DAC0
230
220
210
200
190
0
10000
20000
30000
40000
50000
60000

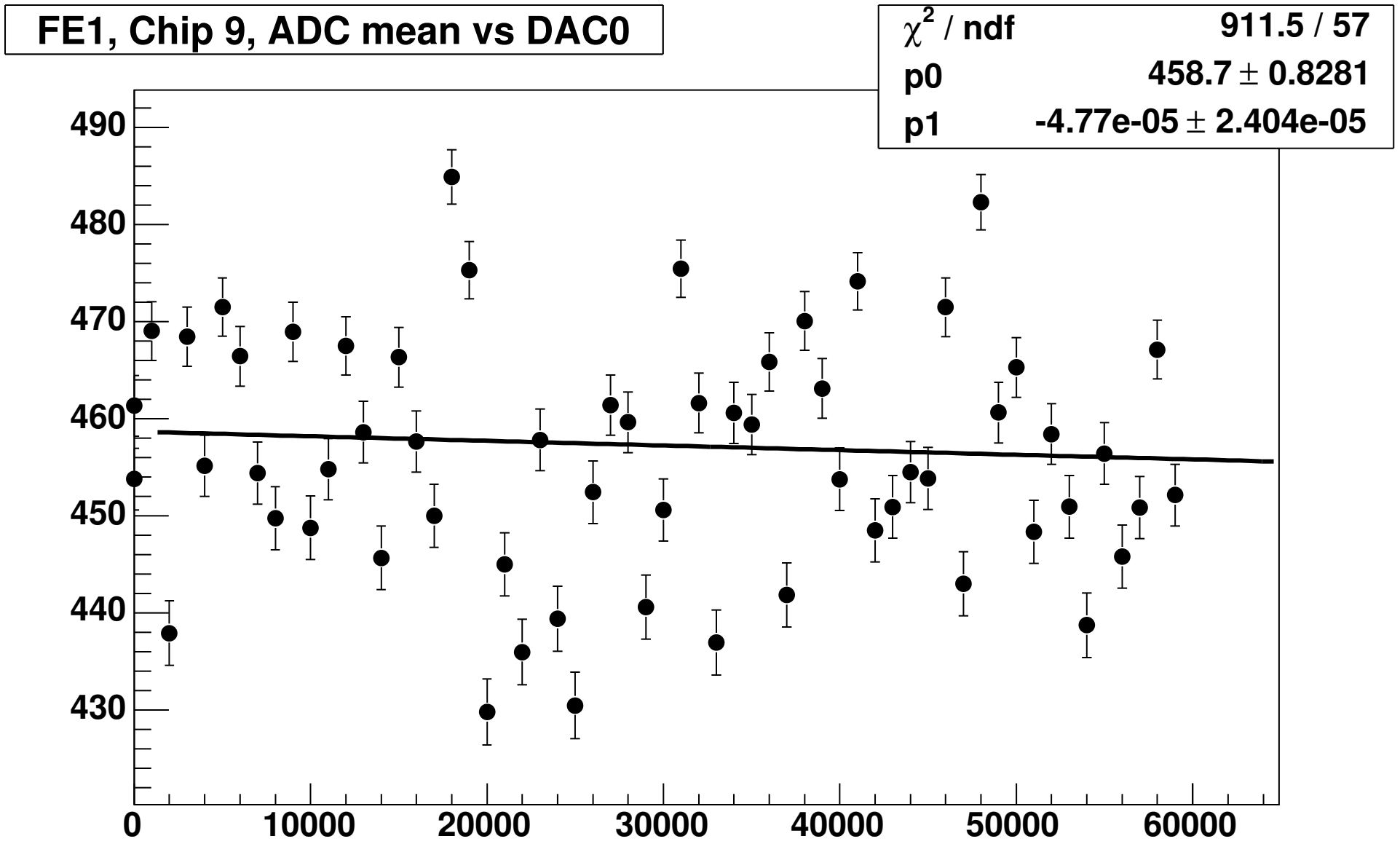

FE1, Chip 8, ADC residuals vs DAC0
30
20
10
0
-10
-20
-30
0
10000
20000
30000
40000
50000
60000

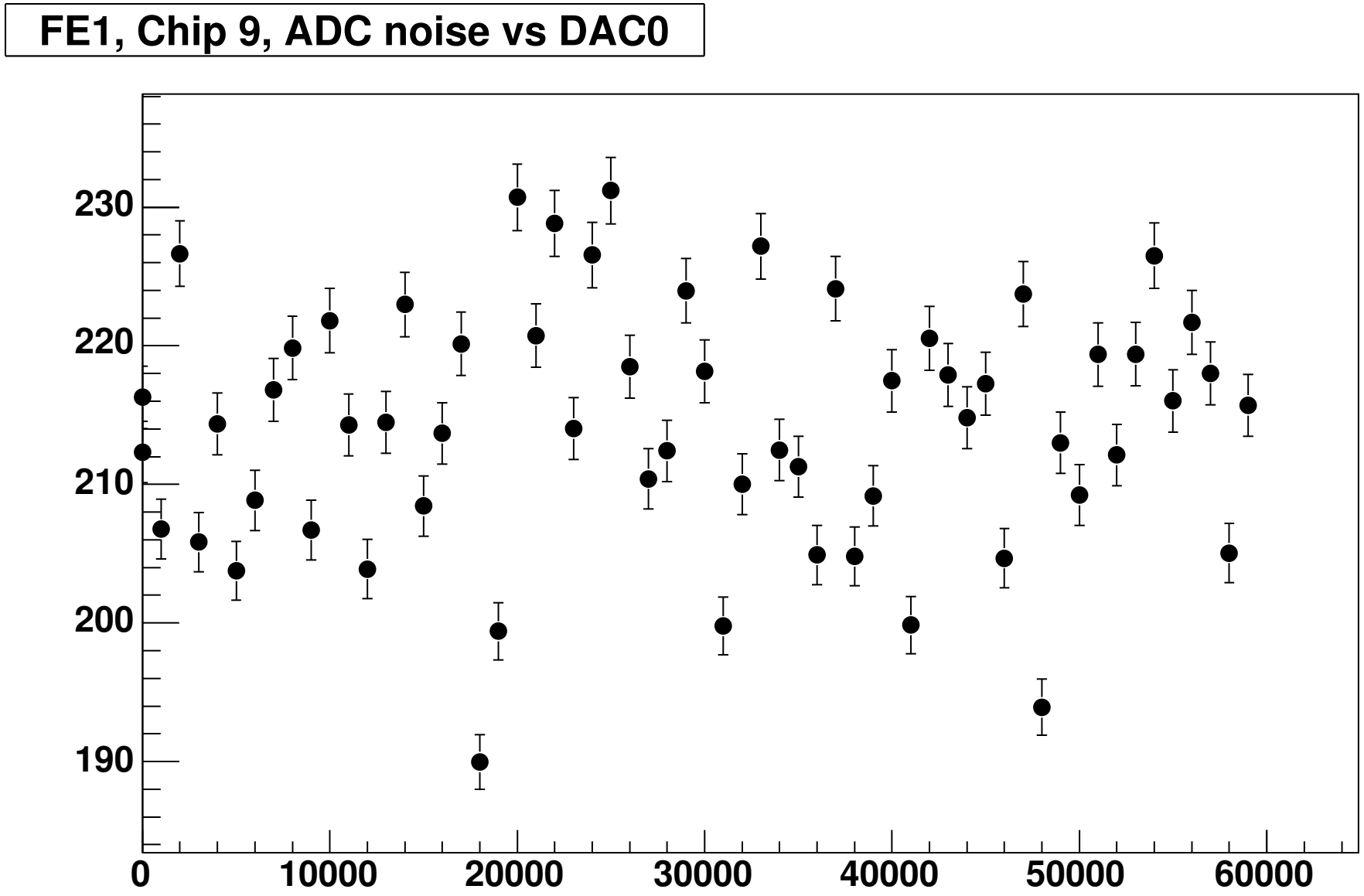

FE1, Chip 8, ADC mean vs DAC1
χ² / ndf 6.89e+04 / 57
p0 44.69 ± 0.0149
p1 0.4487 ± 4.451e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000


FE1, Chip 8, ADC noise vs DAC1
240
220
200
180
160
140
120
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
60000

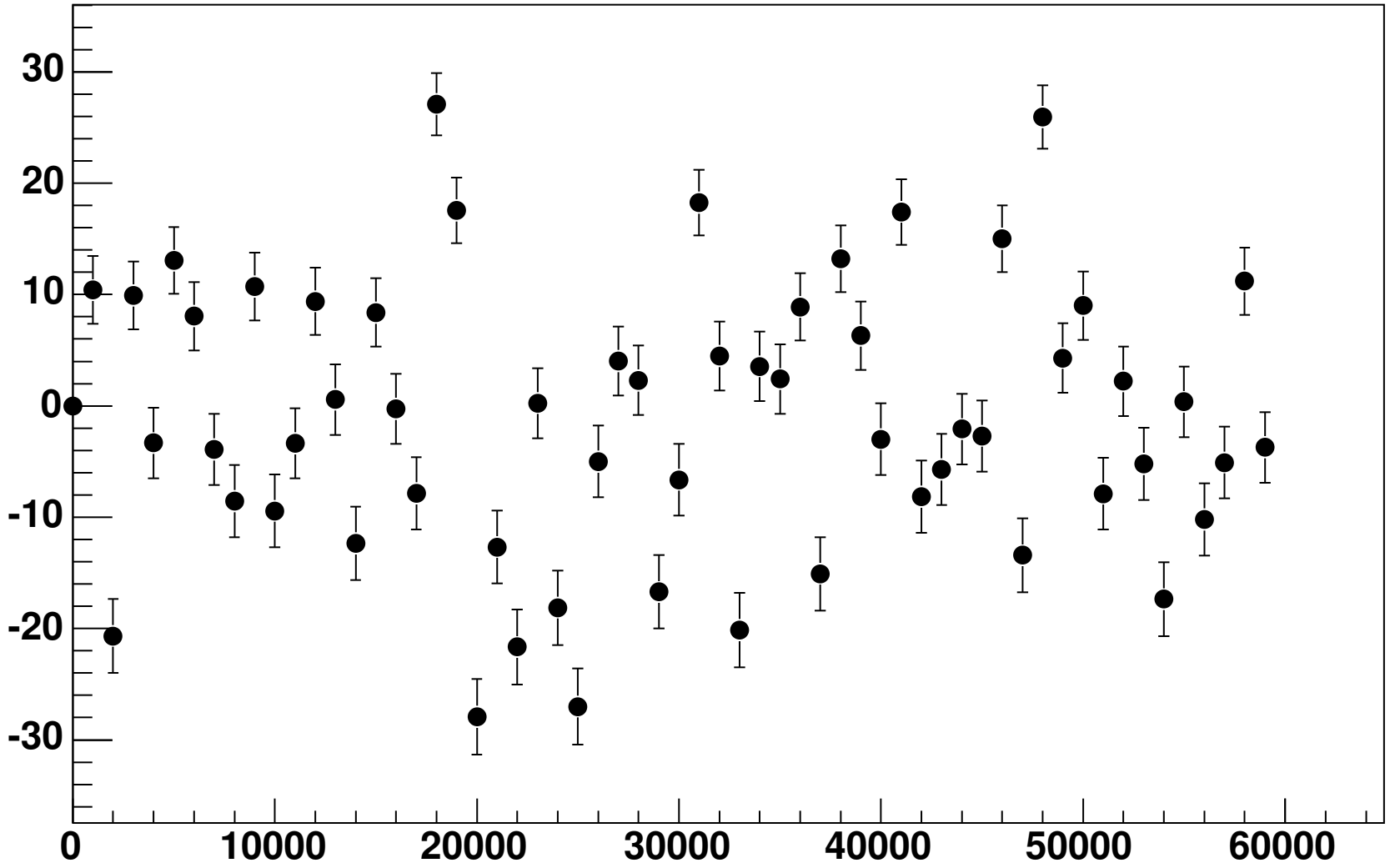
FE1, Chip 8, ADC residuals vs DAC1

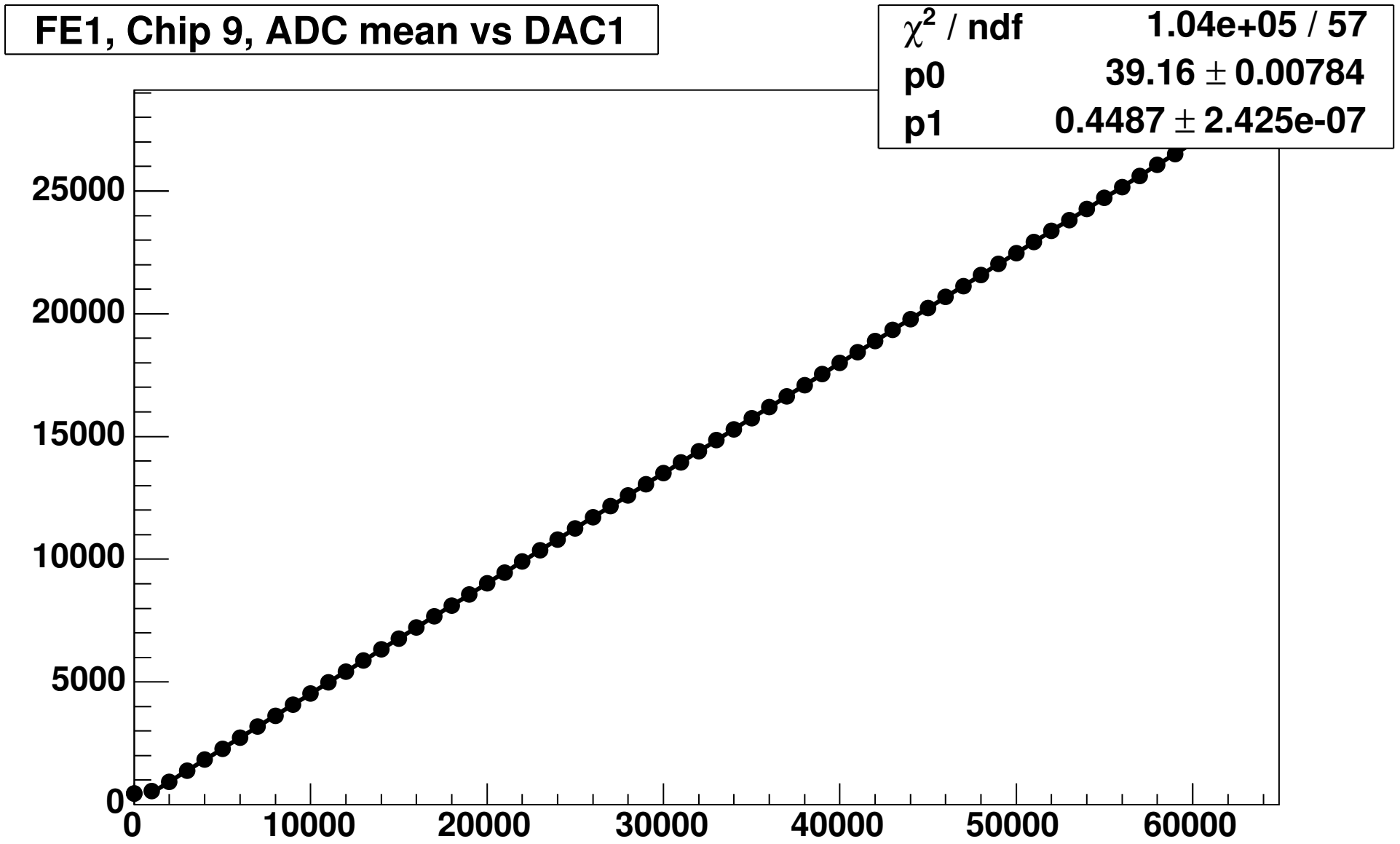


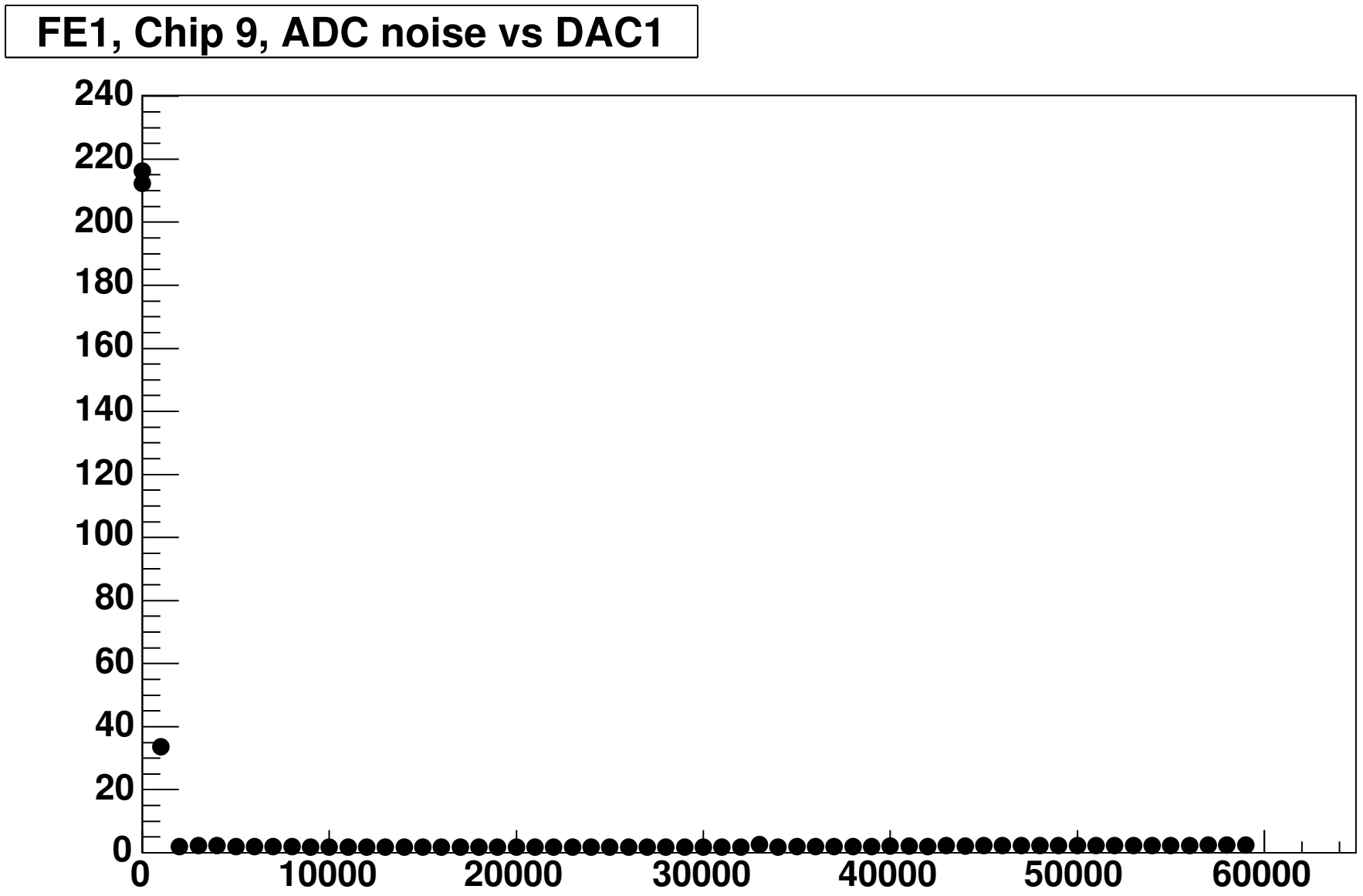

FE1, Chip 9, ADC mean vs DAC0
χ² / ndf 911.5 / 57
p0 458.7 ± 0.8281
p1 -4.77e-05 ± 2.404e-05
490
480
470
460
450
440
430
0
10000
20000
30000
40000
50000
60000

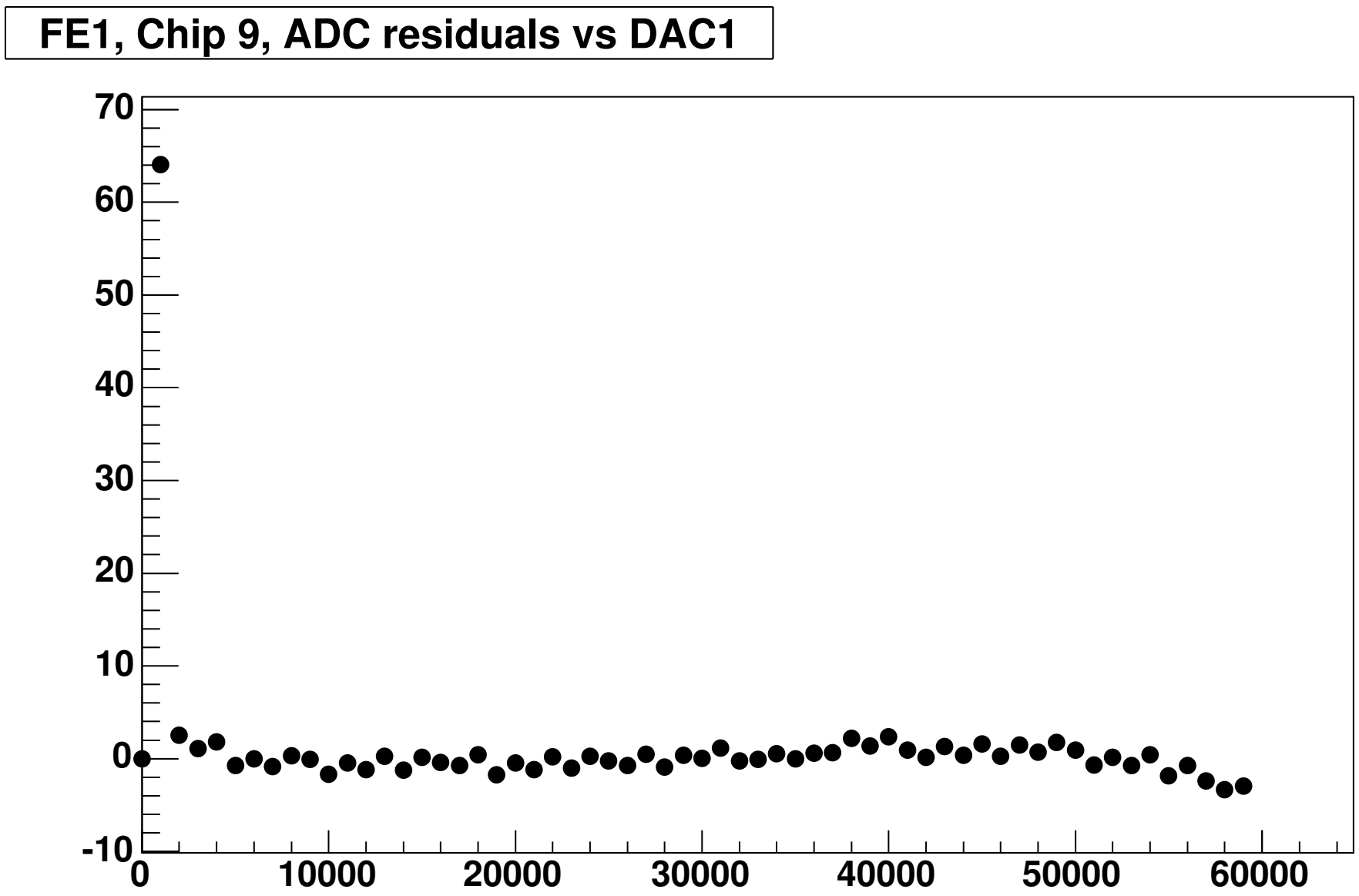

FE1, Chip 9, ADC noise vs DAC0
230
220
210
200
190
0
10000
20000
30000
40000
50000
60000

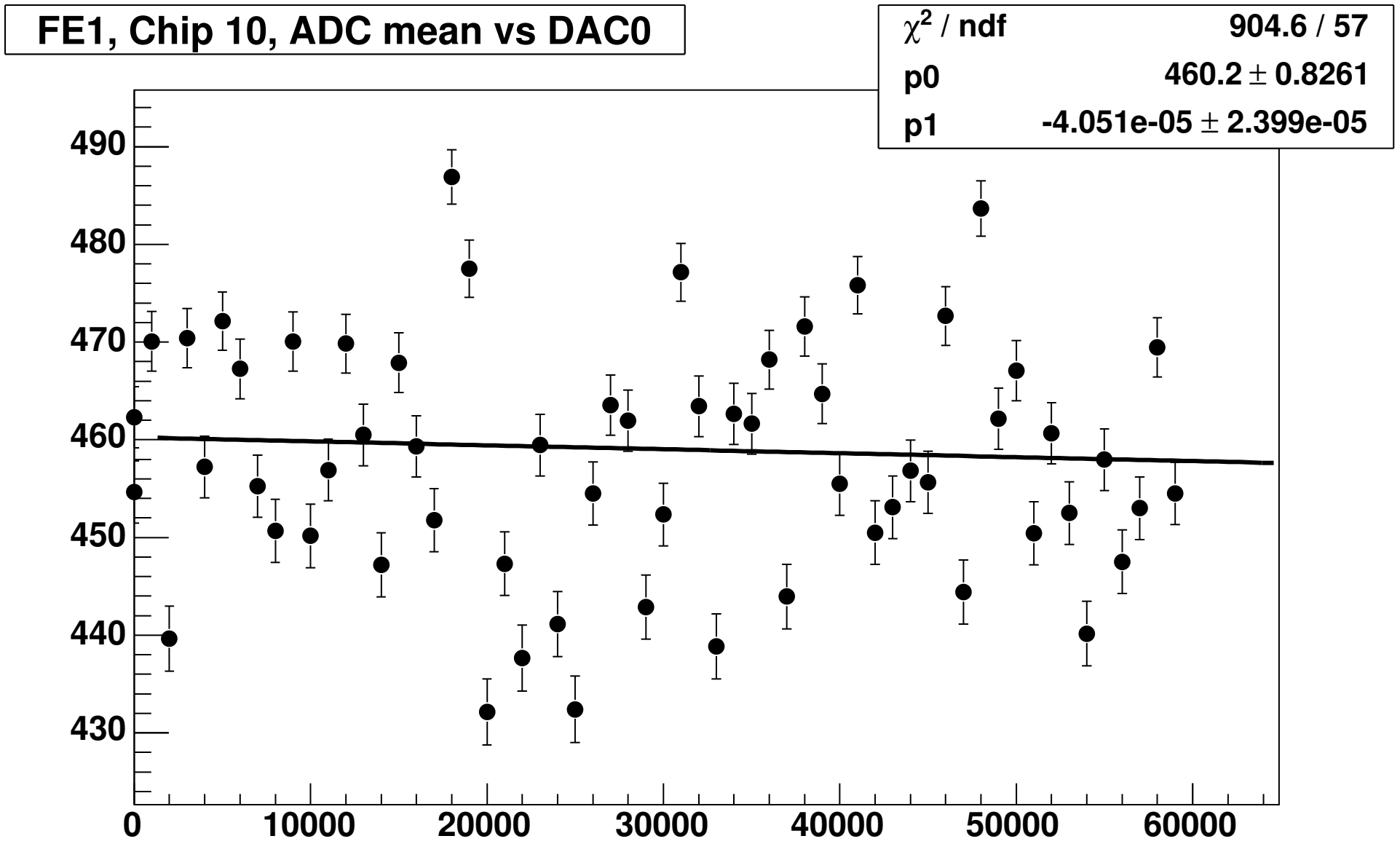
FE1, Chip 9, ADC residuals vs DAC0

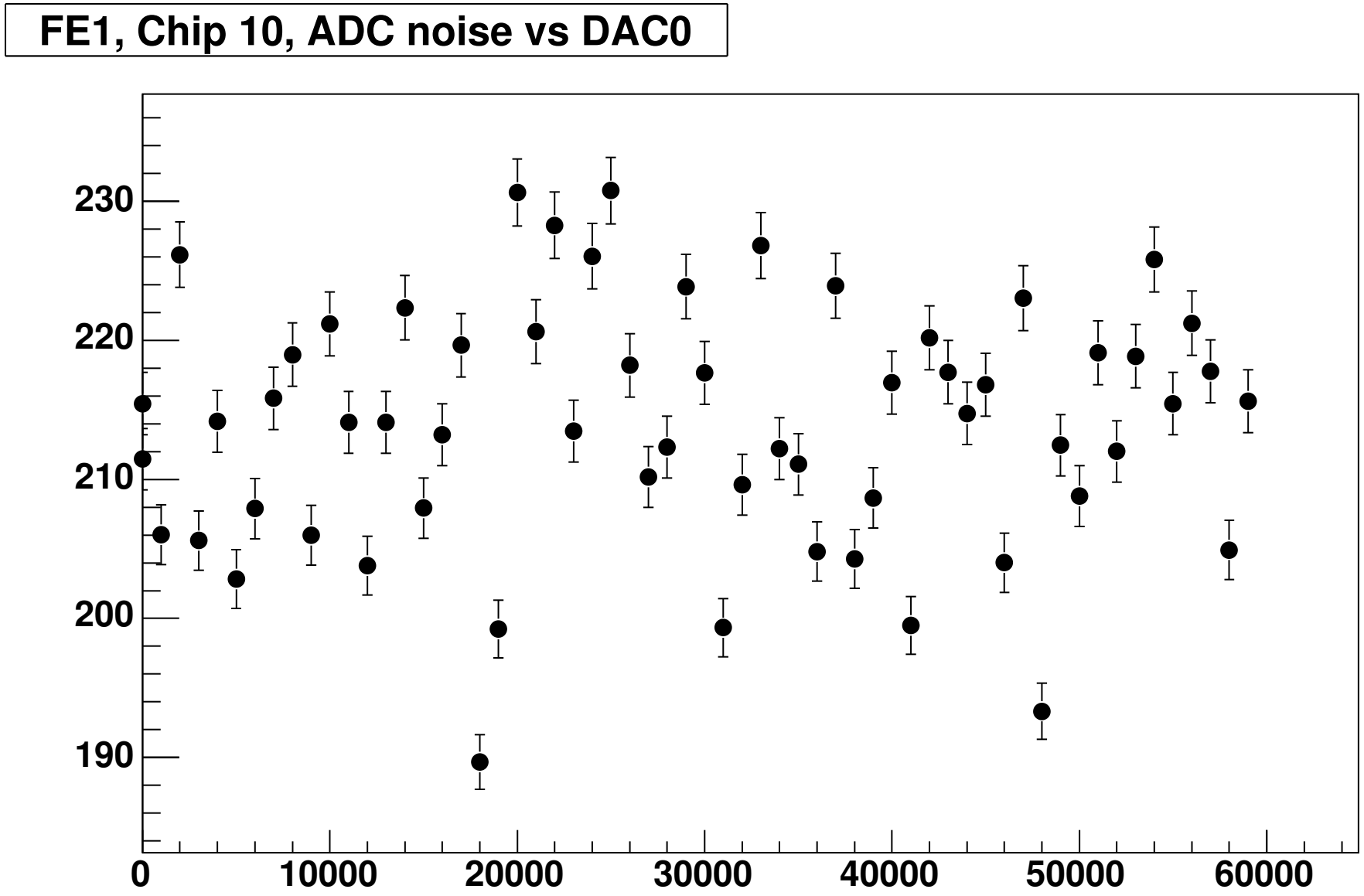


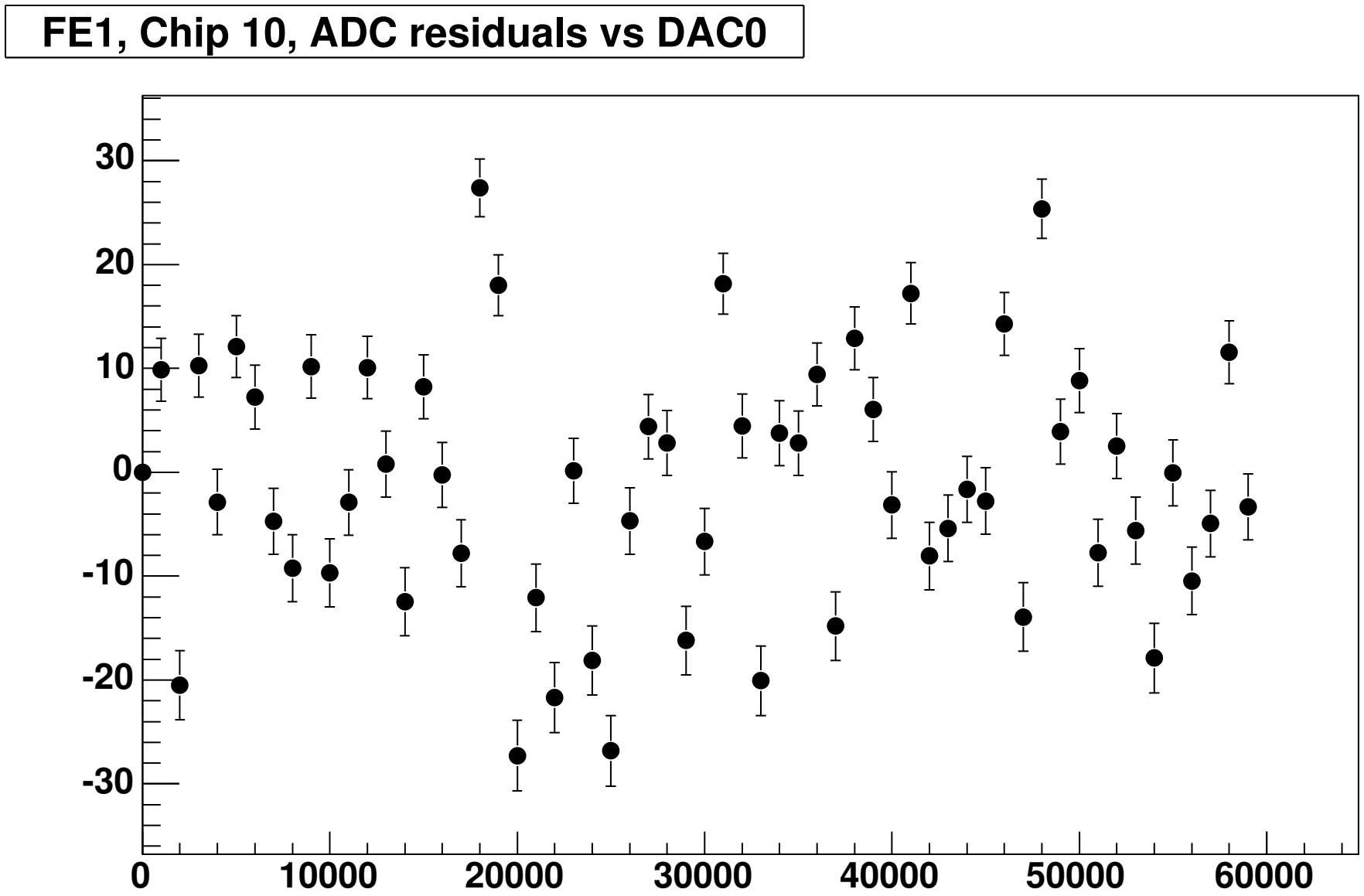

FE1, Chip 9, ADC mean vs DAC1
χ² / ndf 1.04e+05 / 57
p0 39.16 ± 0.00784
p1 0.4487 ± 2.425e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

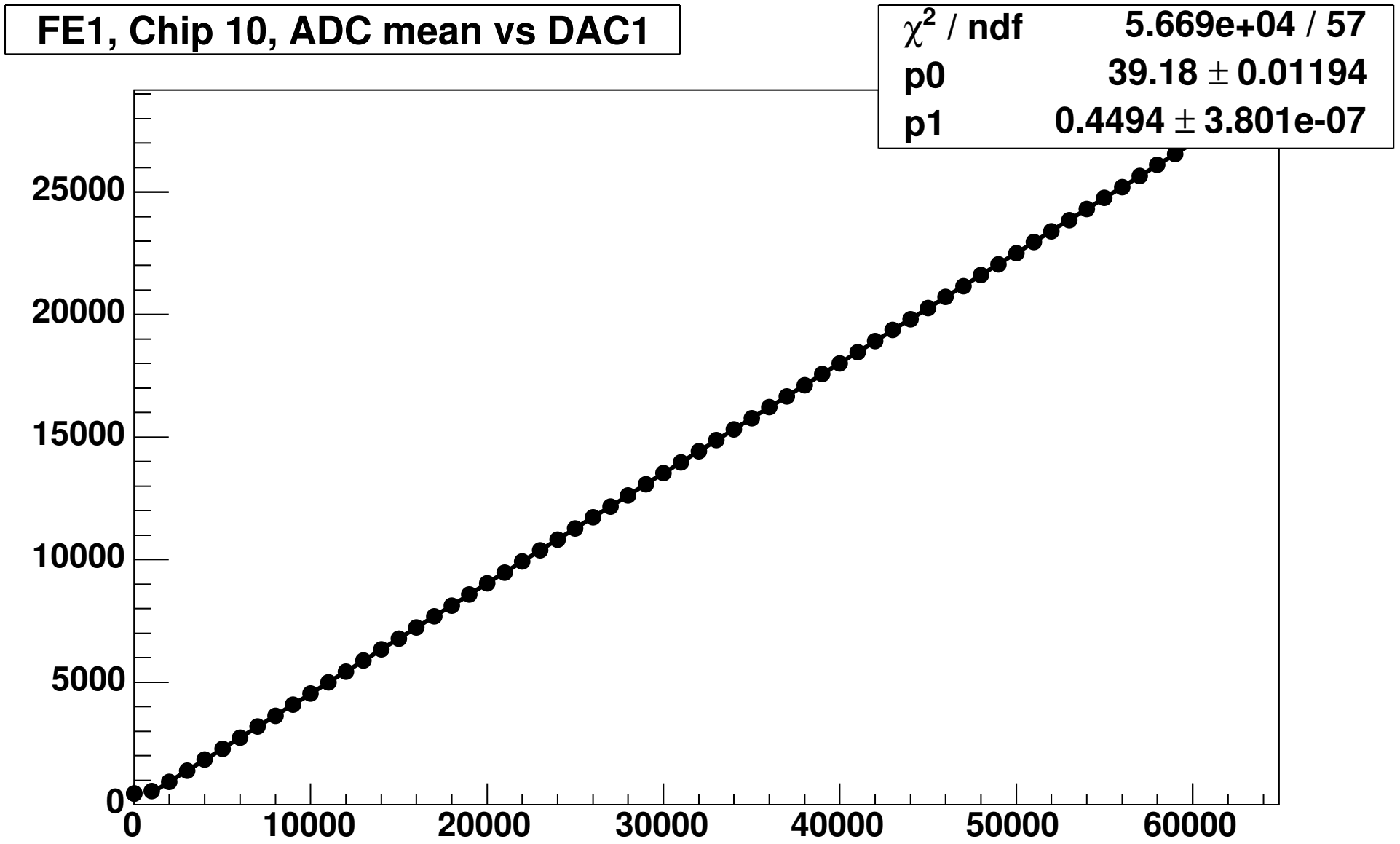

FE1, Chip 9, ADC noise vs DAC1
240
220
200
180
160
140
120
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
60000


FE1, Chip 9, ADC residuals vs DAC1
70
60
50
40
30
20
10
0
-10
0
10000
20000
30000
40000
50000
60000

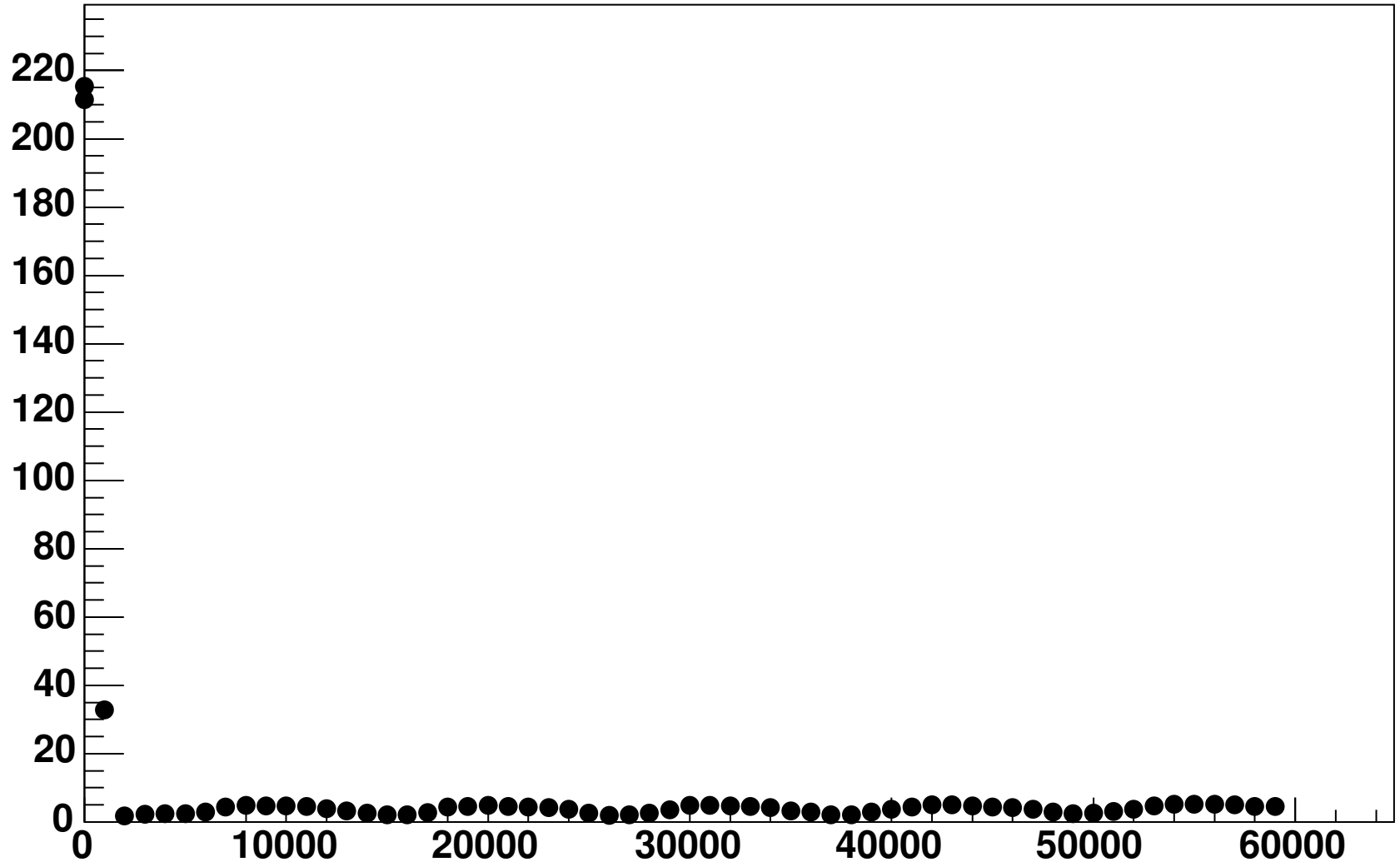

FE1, Chip 10, ADC mean vs DAC0
χ² / ndf 904.6 / 57
p0 460.2 ± 0.8261
p1 -4.051e-05 ± 2.399e-05
490
480
470
460
450
440
430
0
10000
20000
30000
40000
50000
60000

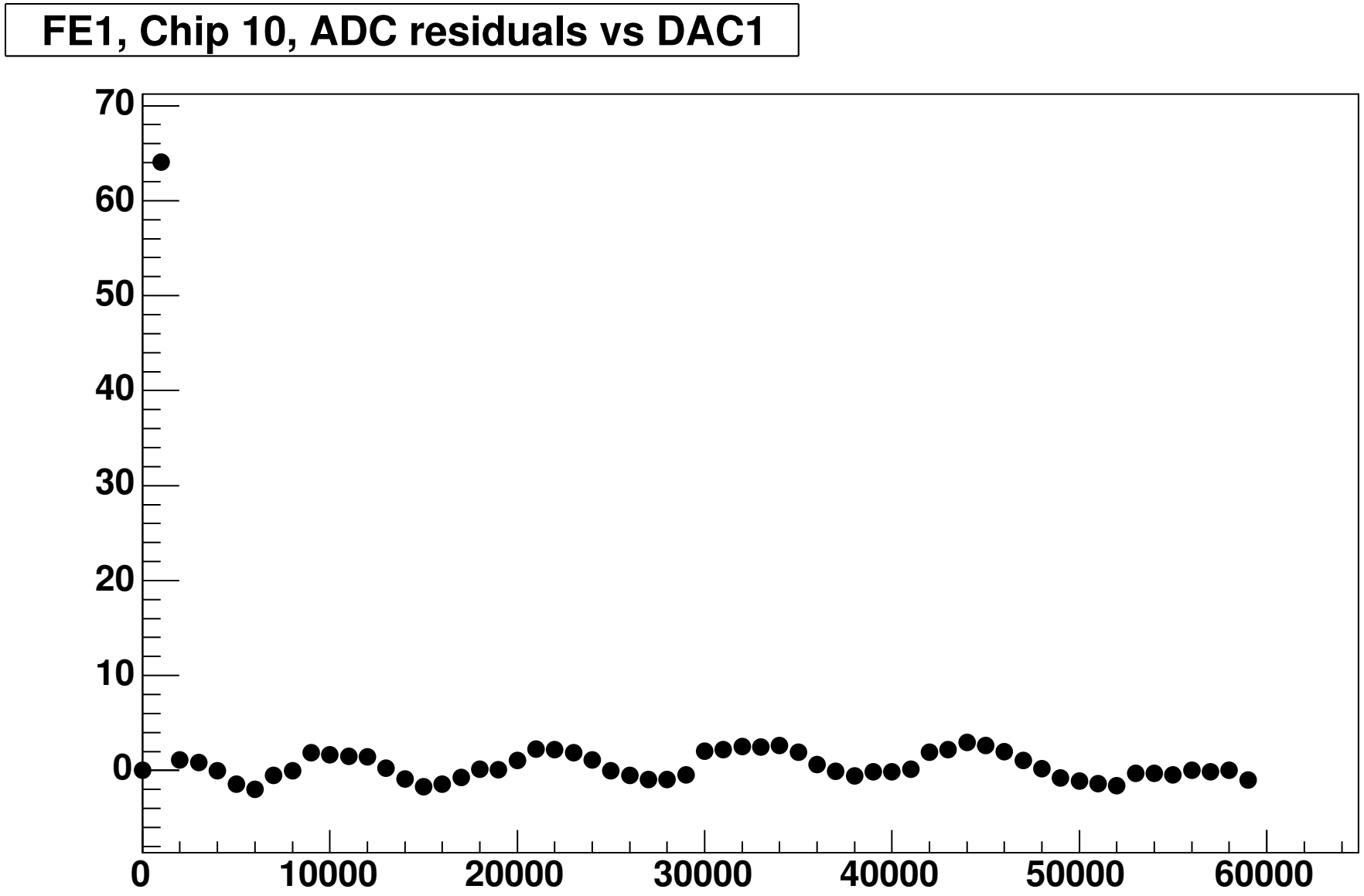

FE1, Chip 10, ADC noise vs DAC0
230
220
210
200
190
0
10000
20000
30000
40000
50000
60000

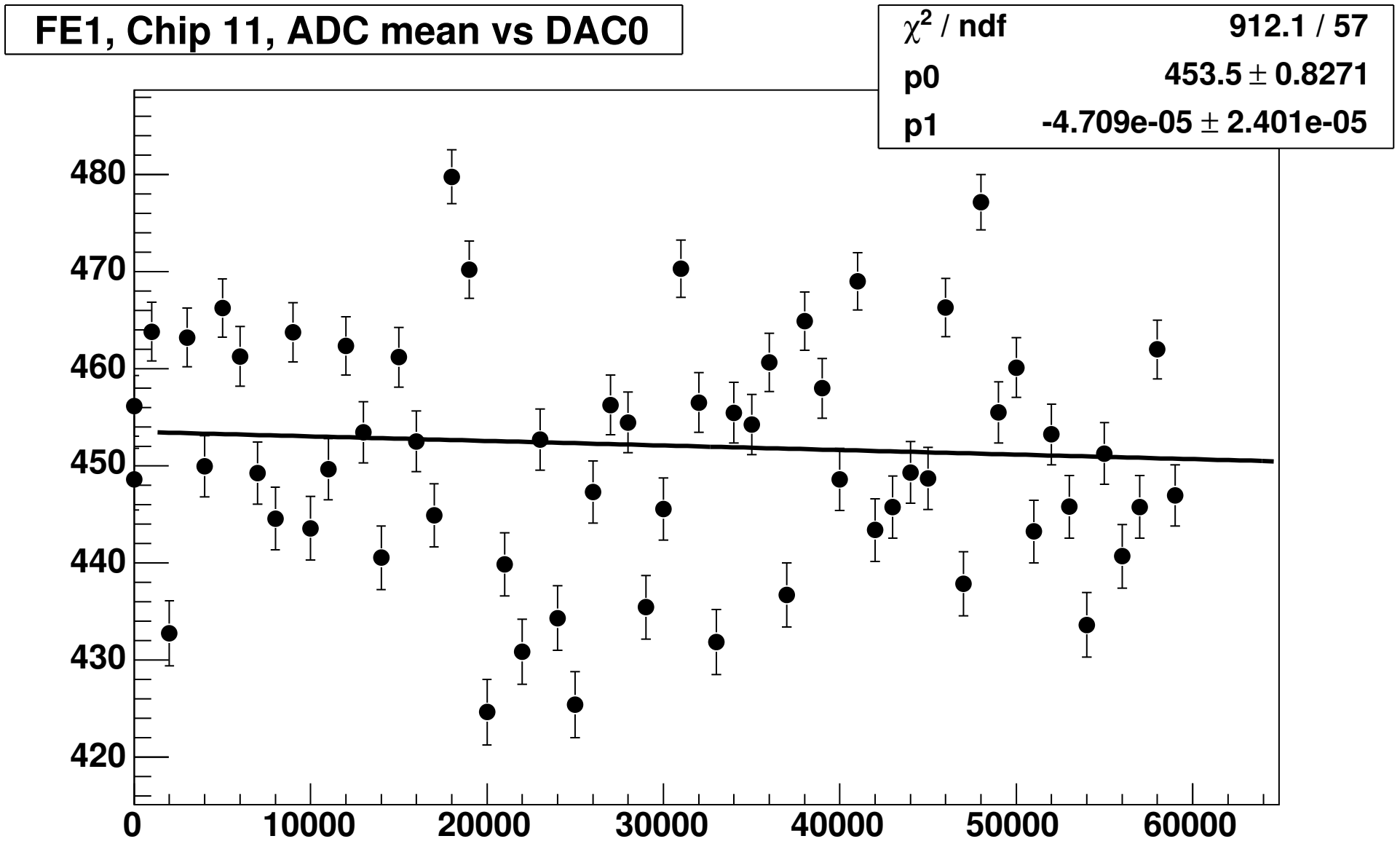

FE1, Chip 10, ADC residuals vs DAC0
30
20
10
0
-10
-20
-30
0
10000
20000
30000
40000
50000
60000

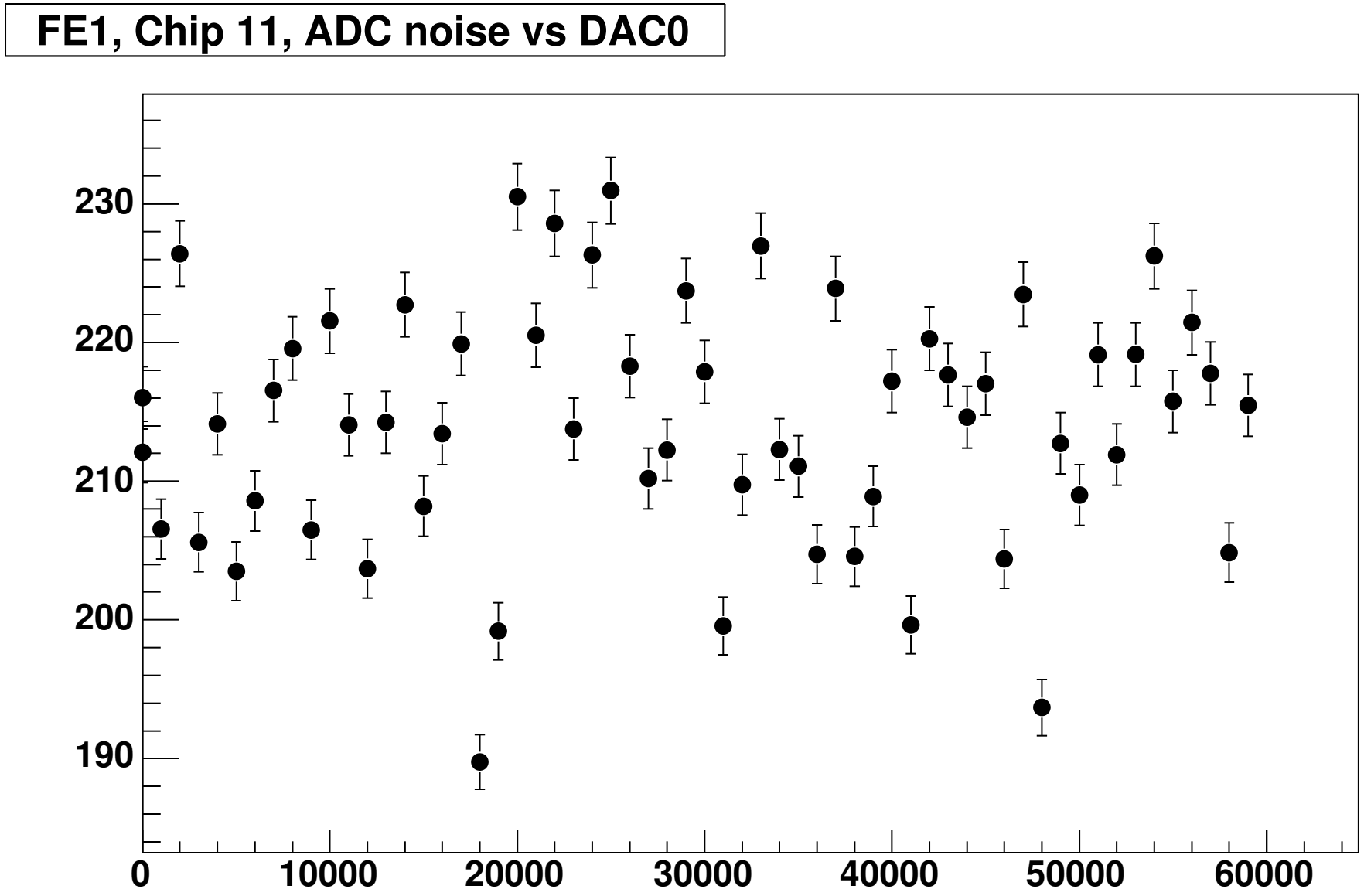

FE1, Chip 10, ADC mean vs DAC1
χ² / ndf 5.669e+04 / 57
p0 39.18 ± 0.01194
p1 0.4494 ± 3.801e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

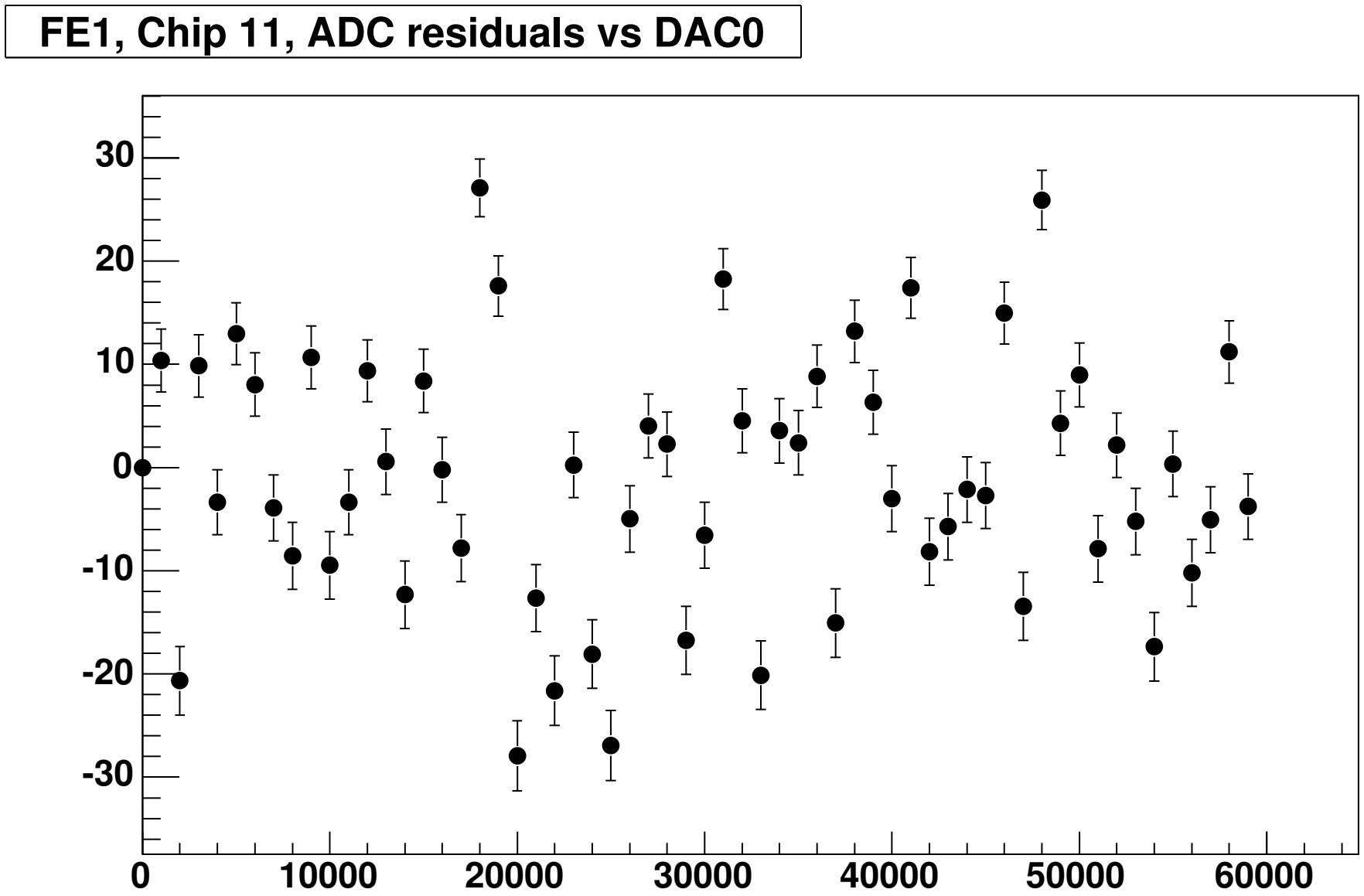
FE1, Chip 10, ADC noise vs DAC1

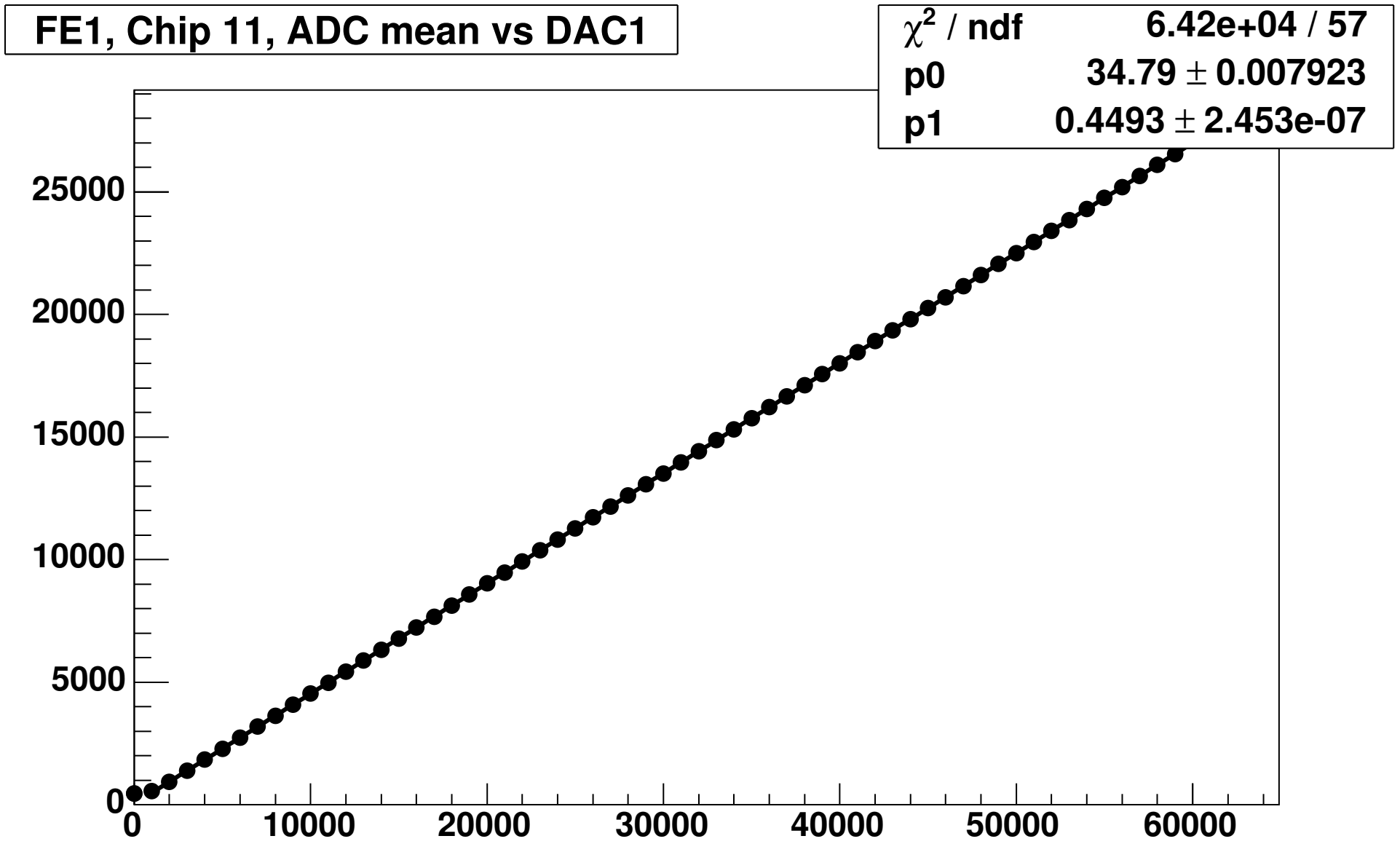


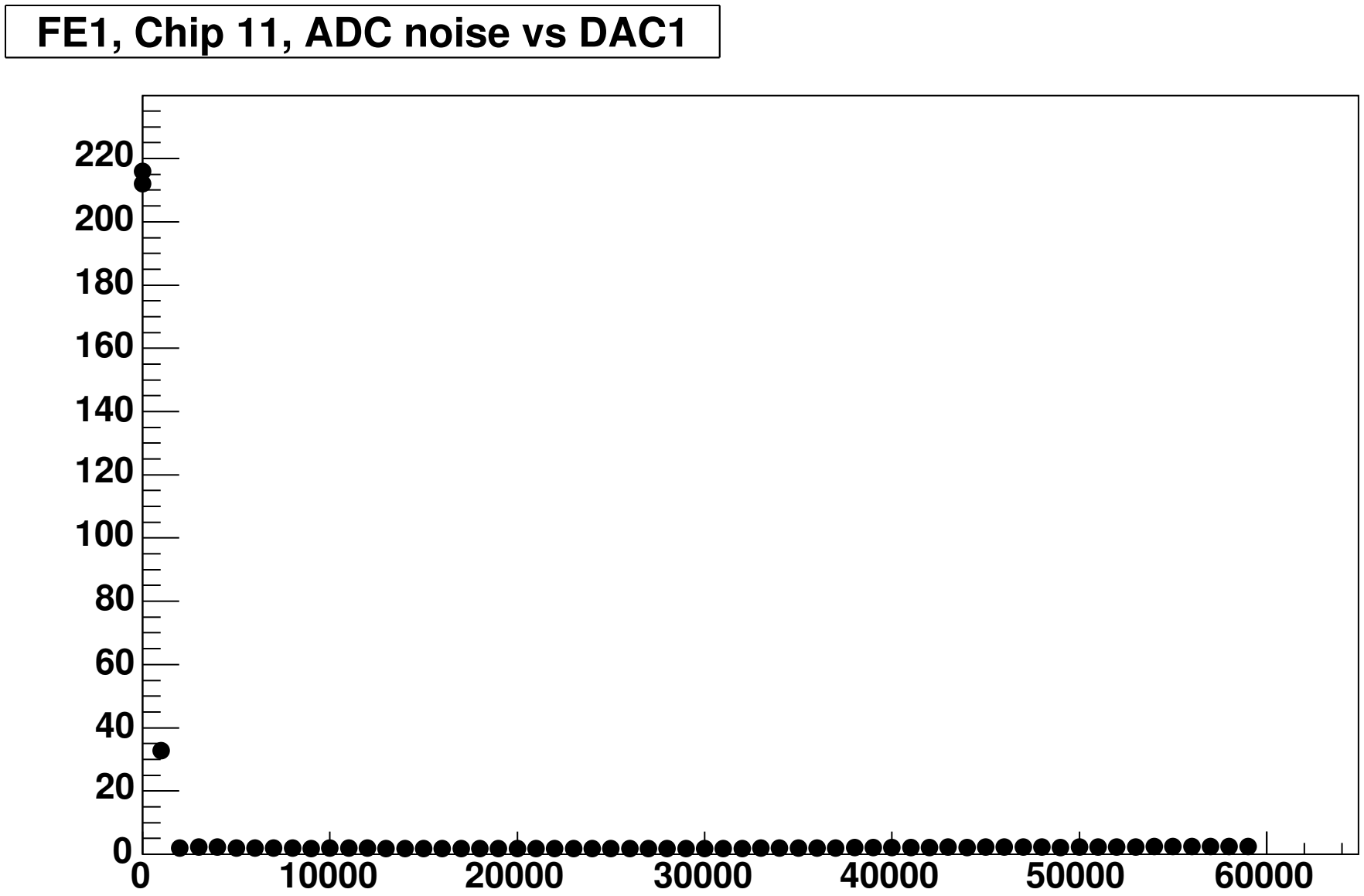

FE1, Chip 10, ADC residuals vs DAC1
70
60
50
40
30
20
10
0
0
10000
20000
30000
40000
50000
60000

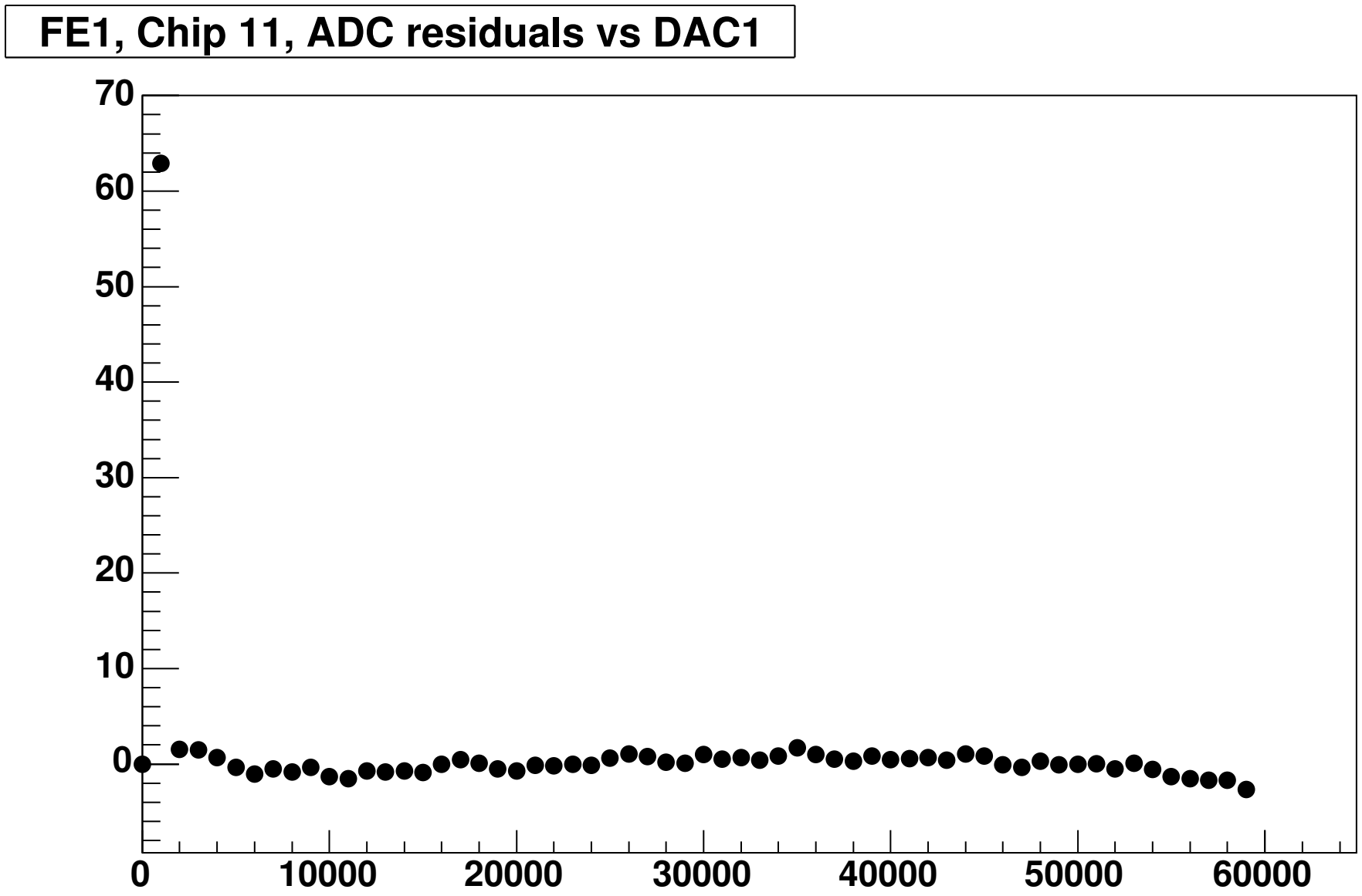

FE1, Chip 11, ADC mean vs DAC0
χ² / ndf 912.1 / 57
p0 453.5 ± 0.8271
p1 -4.709e-05 ± 2.401e-05
480
470
460
450
440
430
420
0
10000
20000
30000
40000
50000
60000

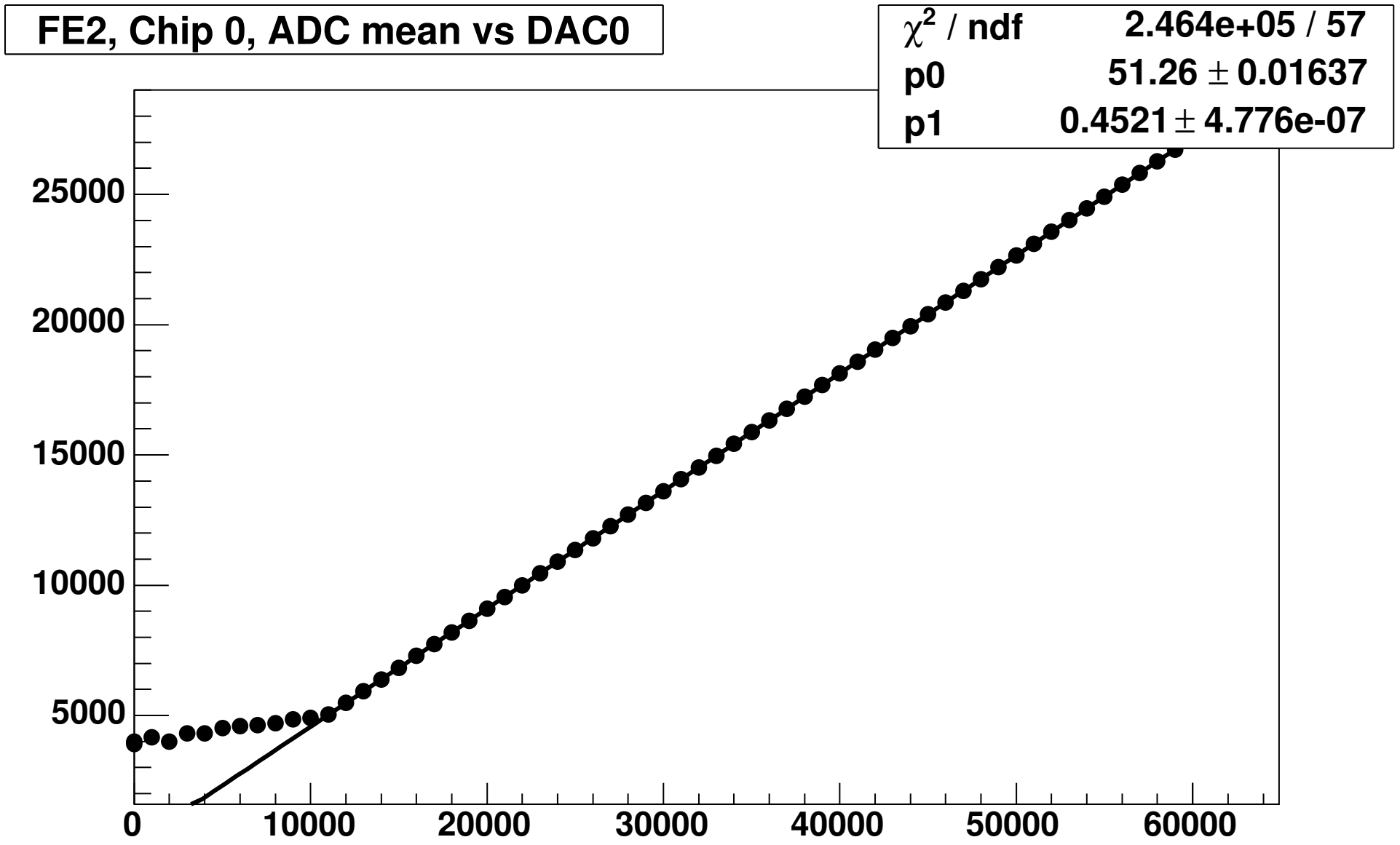

FE1, Chip 11, ADC noise vs DAC0
230
220
210
200
190
0
10000
20000
30000
40000
50000
60000

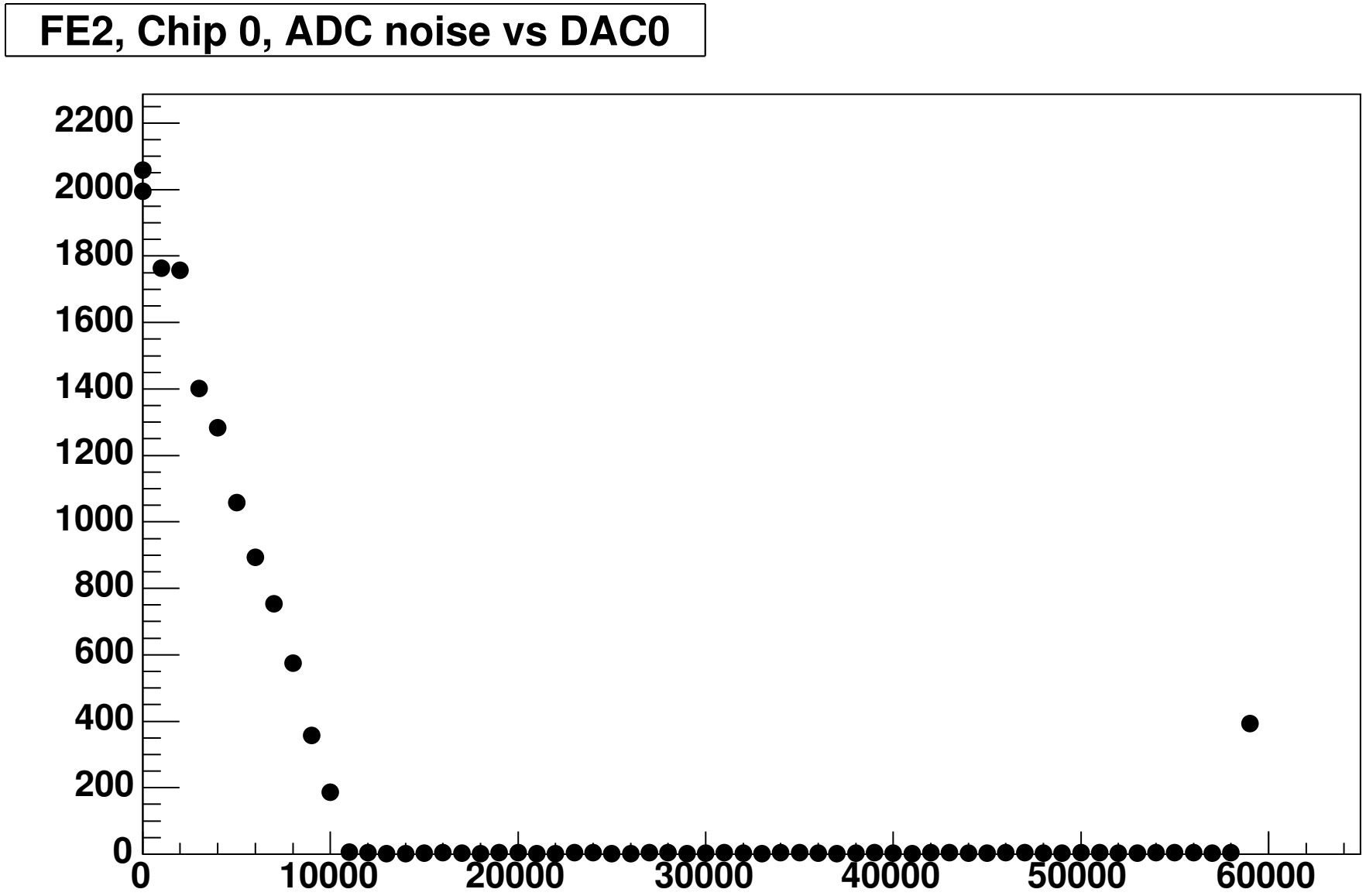

FE1, Chip 11, ADC residuals vs DAC0
30
20
10
0
-10
-20
-30
0
10000
20000
30000
40000
50000
60000

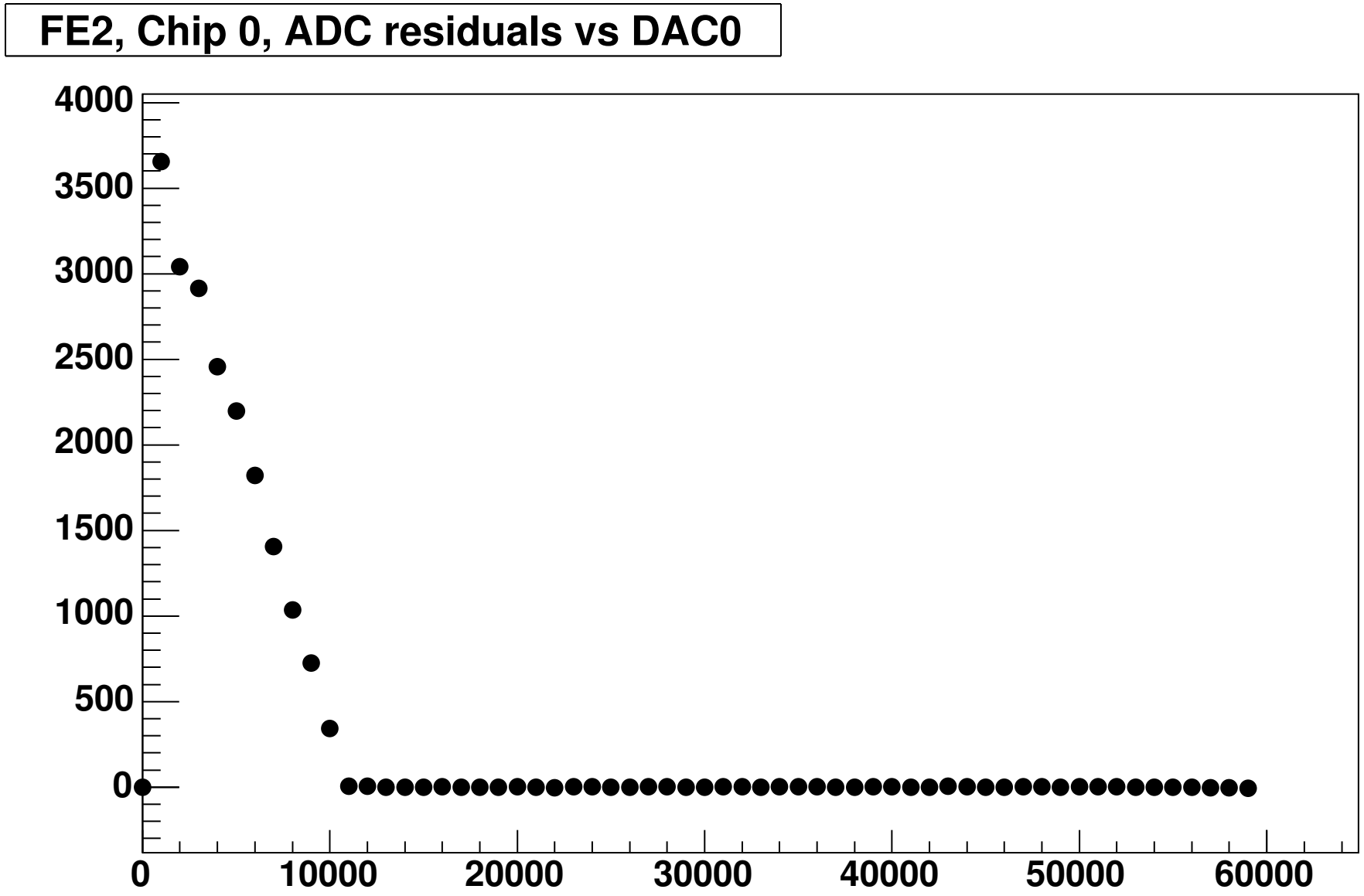

FE1, Chip 11, ADC mean vs DAC1
χ² / ndf 6.42e+04 / 57
p0 34.79 ± 0.007923
p1 0.4493 ± 2.453e-07
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000

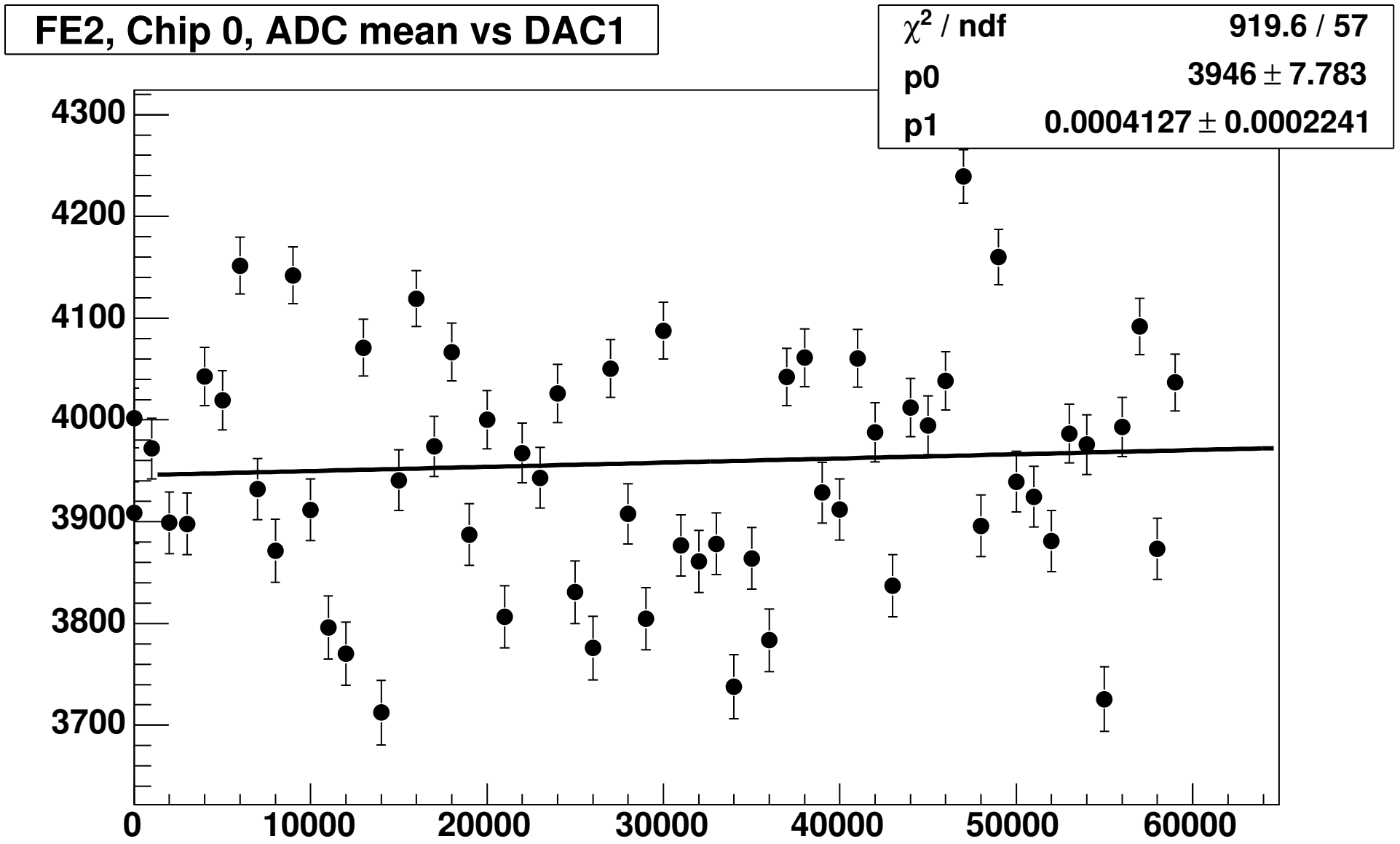

FE1, Chip 11, ADC noise vs DAC1
220
200
180
160
140
120
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
60000

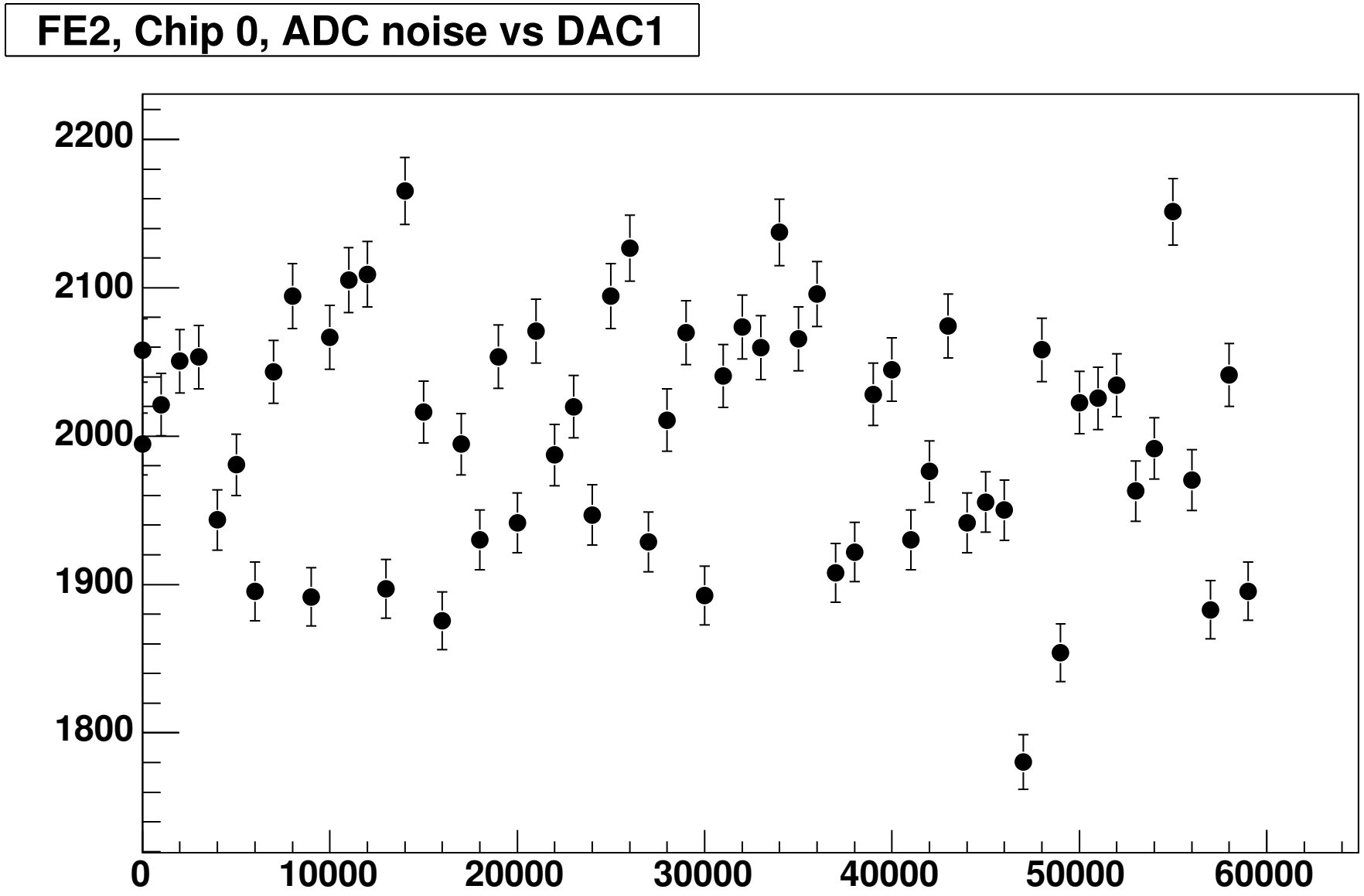

FE1, Chip 11, ADC residuals vs DAC1
70
60
50
40
30
20
10
0
0
10000
20000
30000
40000
50000
60000

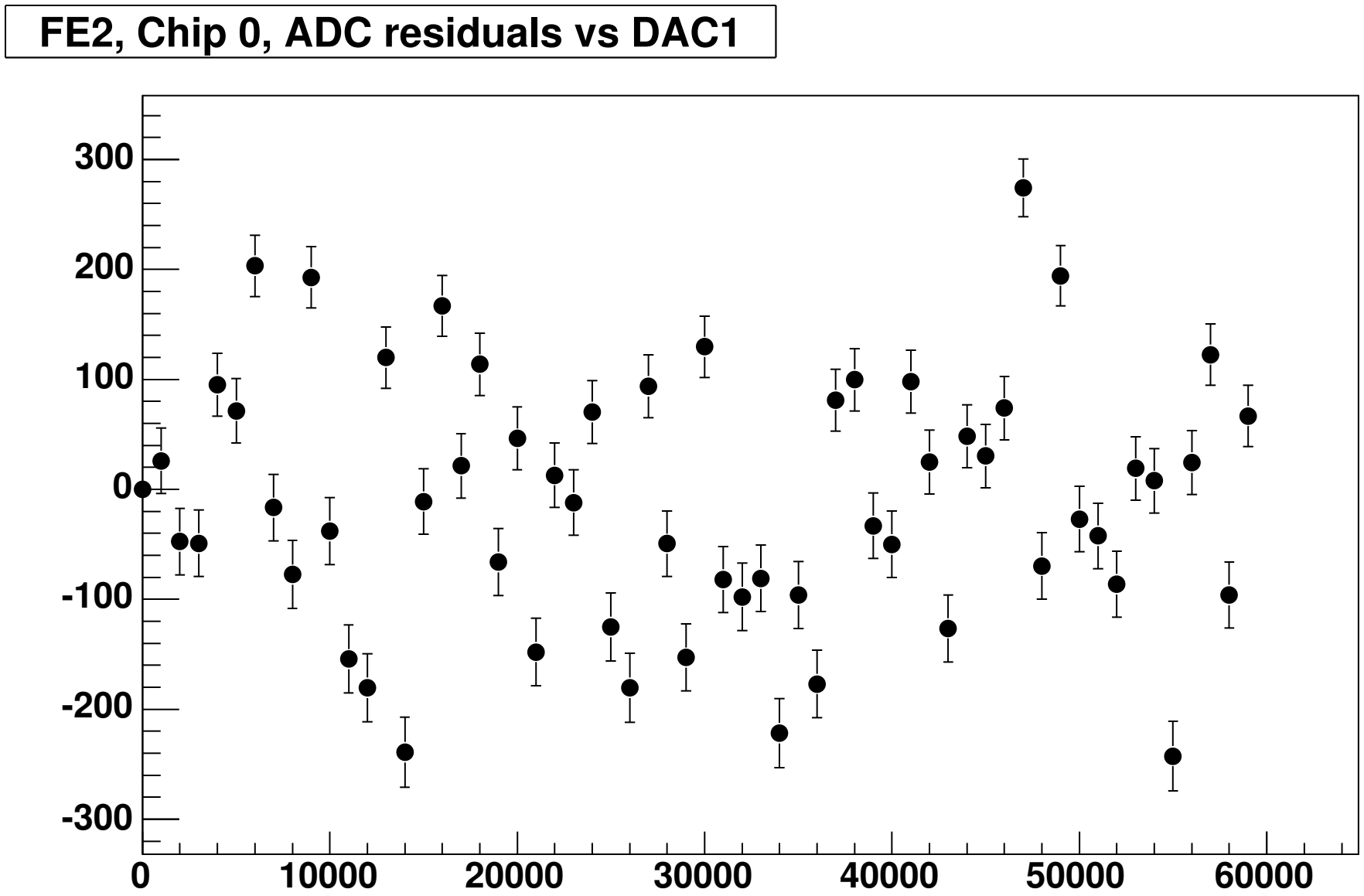

FE2, Chip 0, ADC mean vs DAC0
χ² / ndf 2.464e+05 / 57
p0 51.26 ± 0.01637
p1 0.4521 ± 4.776e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

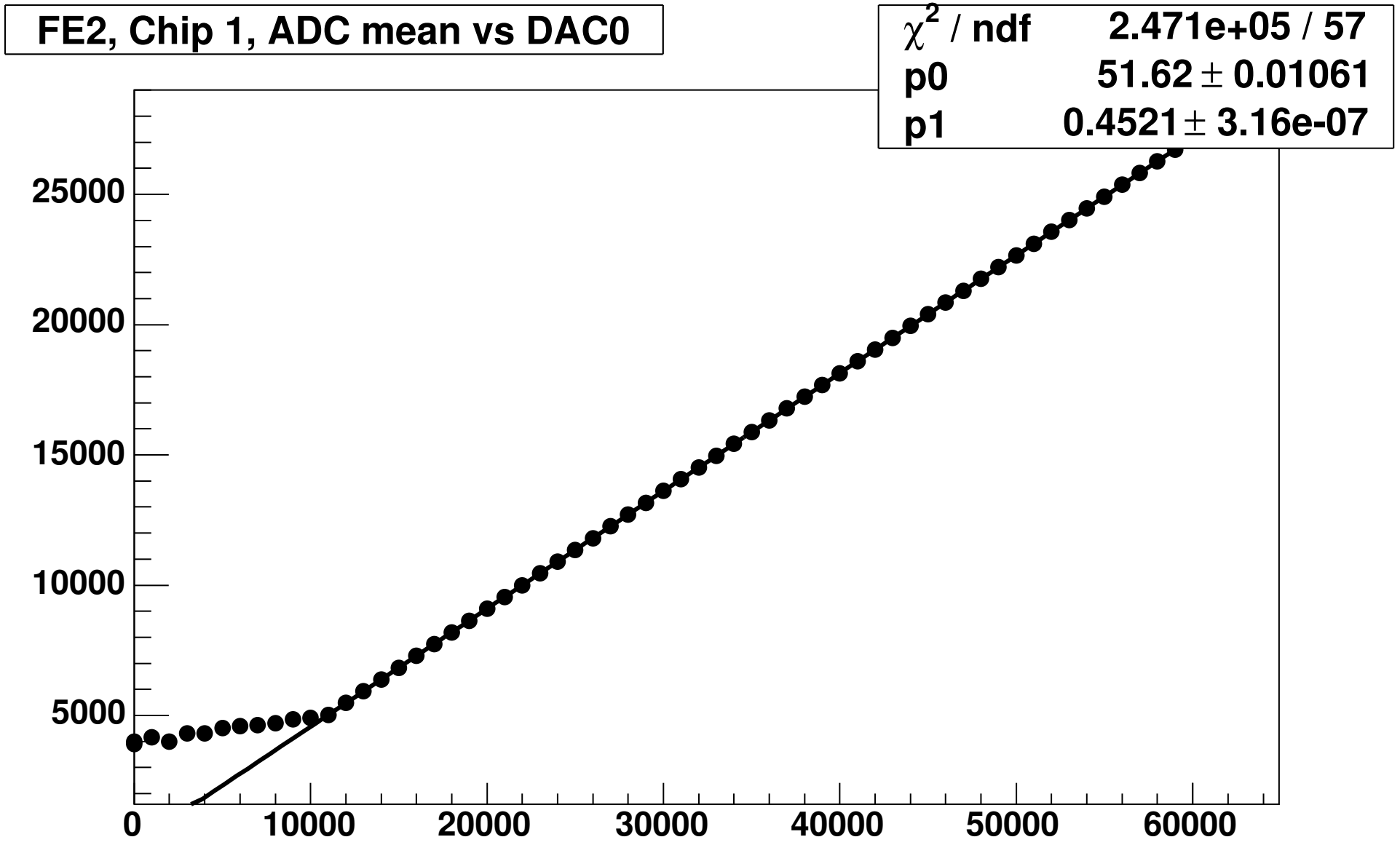

FE2, Chip 0, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

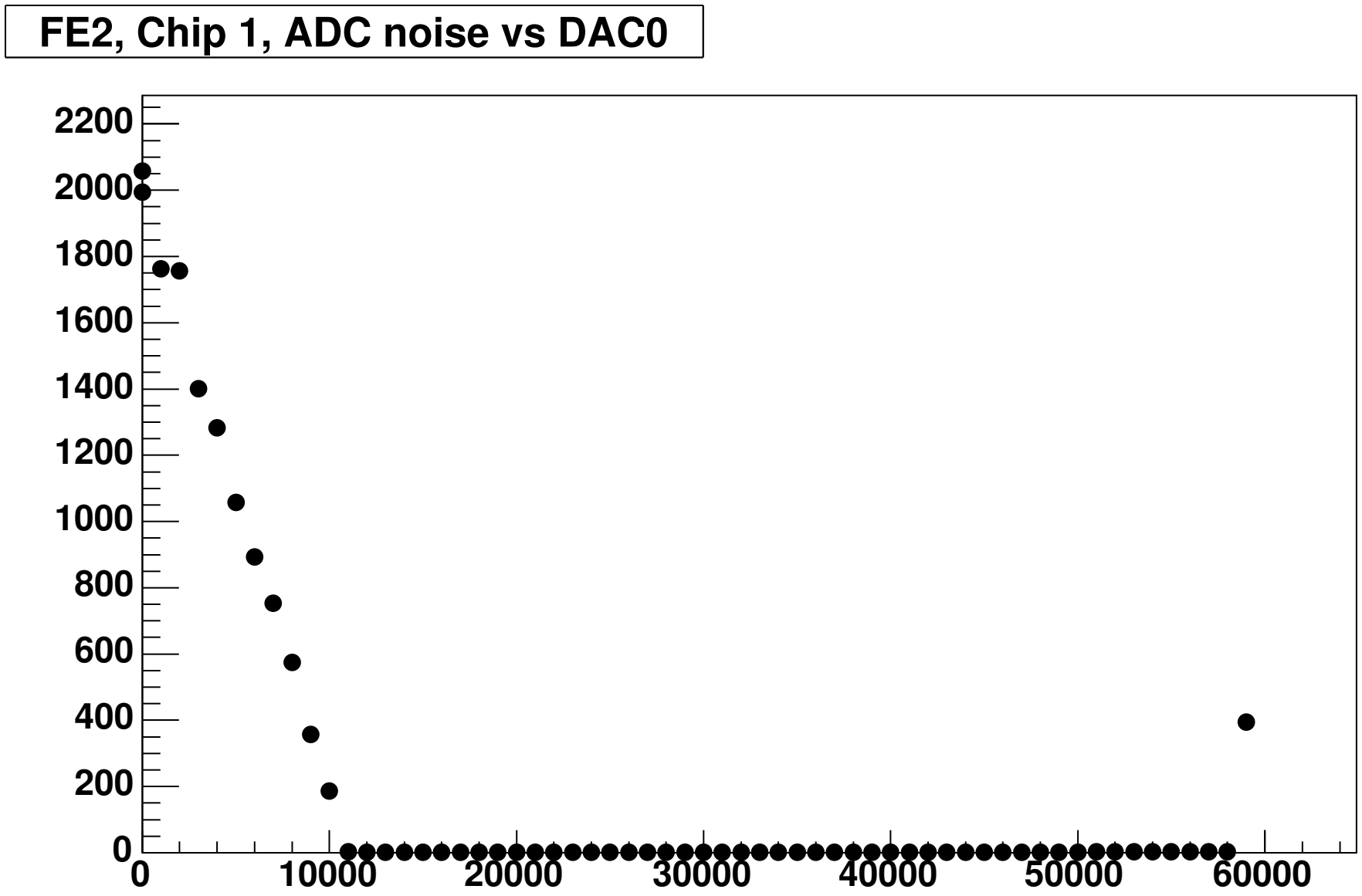

FE2, Chip 0, ADC residuals vs DAC0
4000
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 0, ADC mean vs DAC1
χ² / ndf 919.6 / 57
p0 3946 ± 7.783
p1 0.0004127 ± 0.0002241
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE2, Chip 0, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE2, Chip 0, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE2, Chip 1, ADC mean vs DAC0
χ² / ndf 2.471e+05 / 57
p0 51.62 ± 0.01061
p1 0.4521 ± 3.16e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE2, Chip 1, ADC noise vs DAC0
2200
2000
1800
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1400
1200
1000
800
600
400
200
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0
10000
20000
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50000
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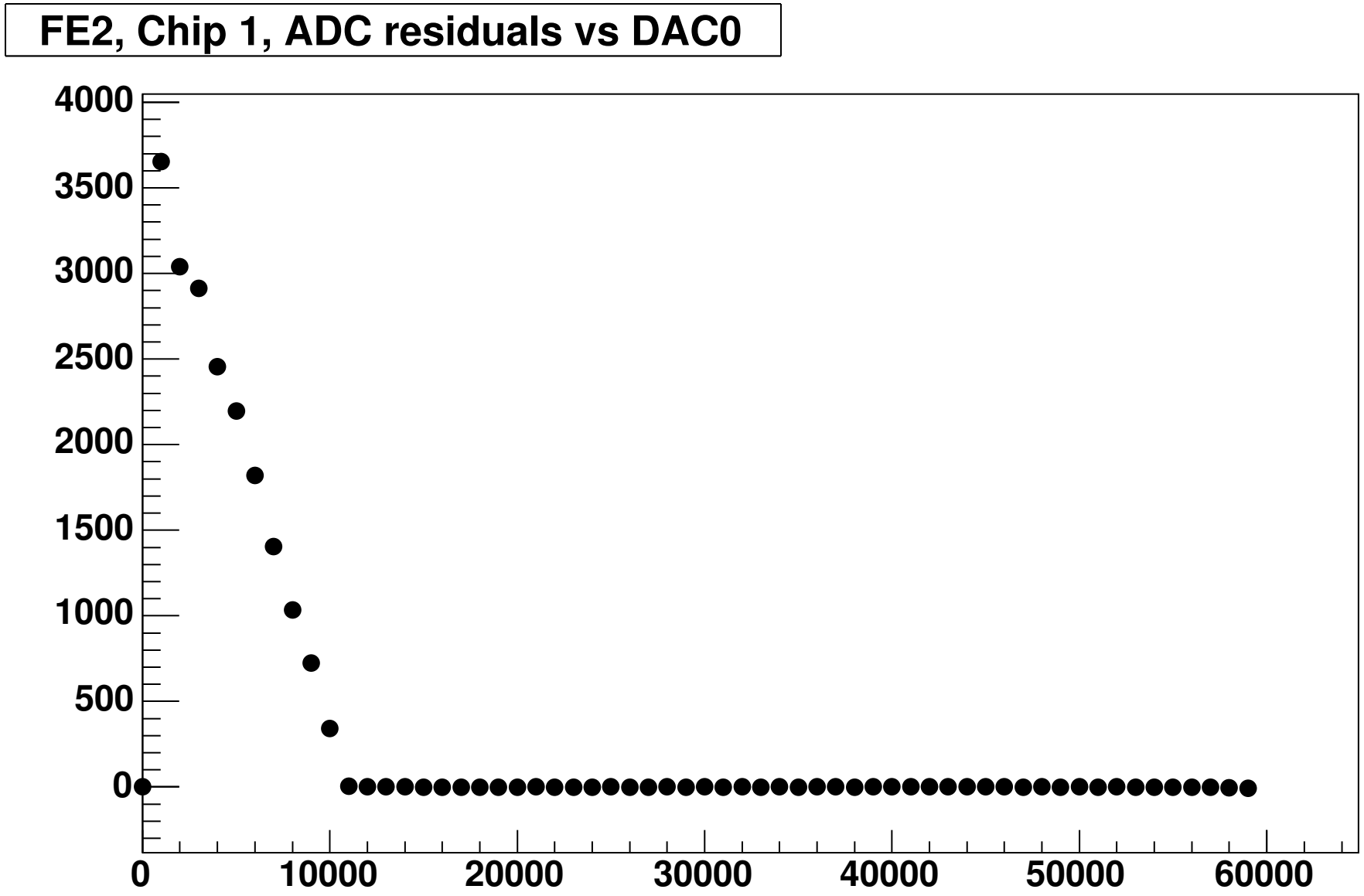
FE2, Chip 1, ADC residuals vs DAC0
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2500
2000
1500
1000
500
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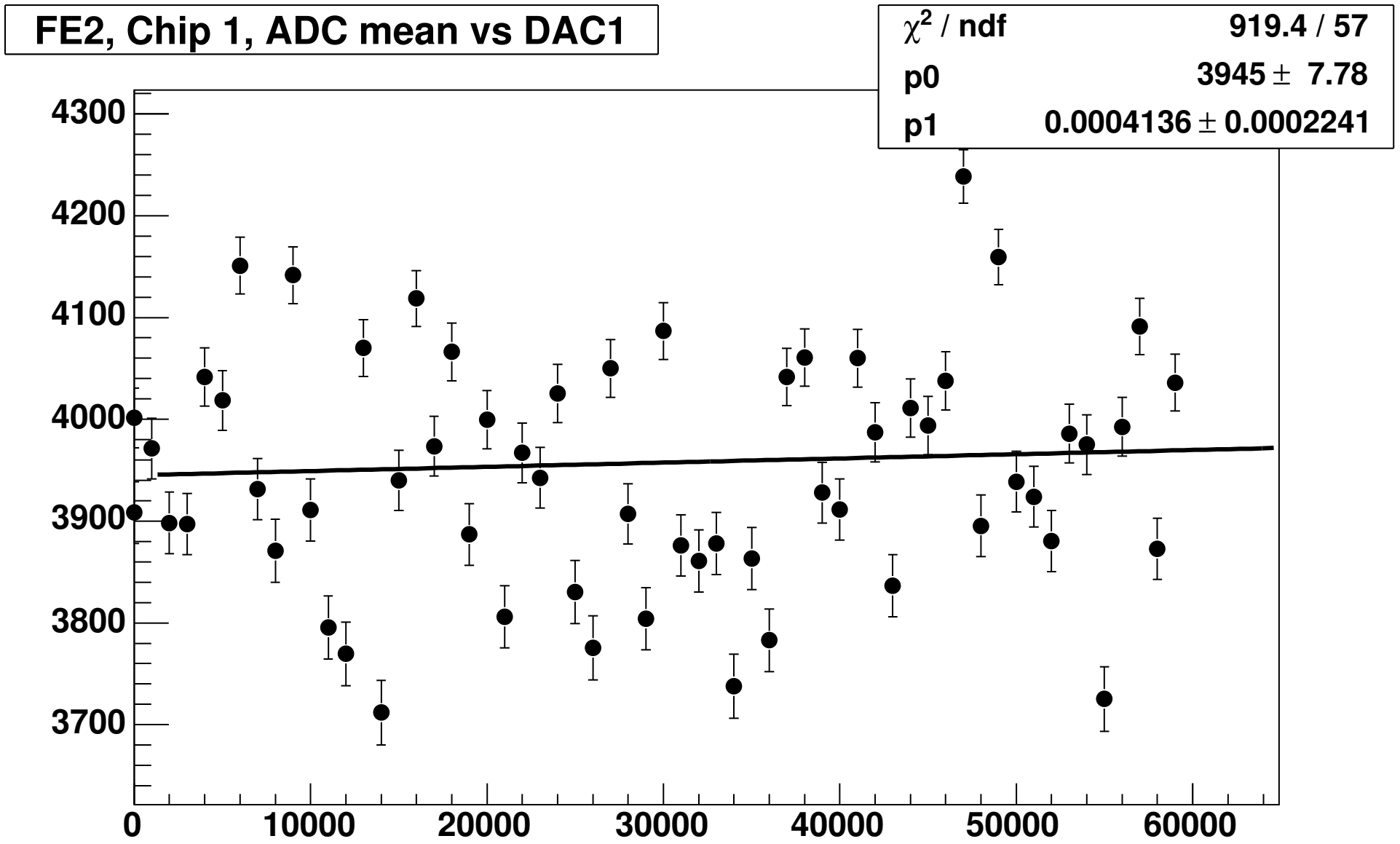
0
10000
20000
30000
40000
50000
60000


FE2, Chip 1, ADC mean vs DAC1
χ² / ndf 919.4 / 57
p0 3945 ± 7.78
p1 0.0004136 ± 0.0002241
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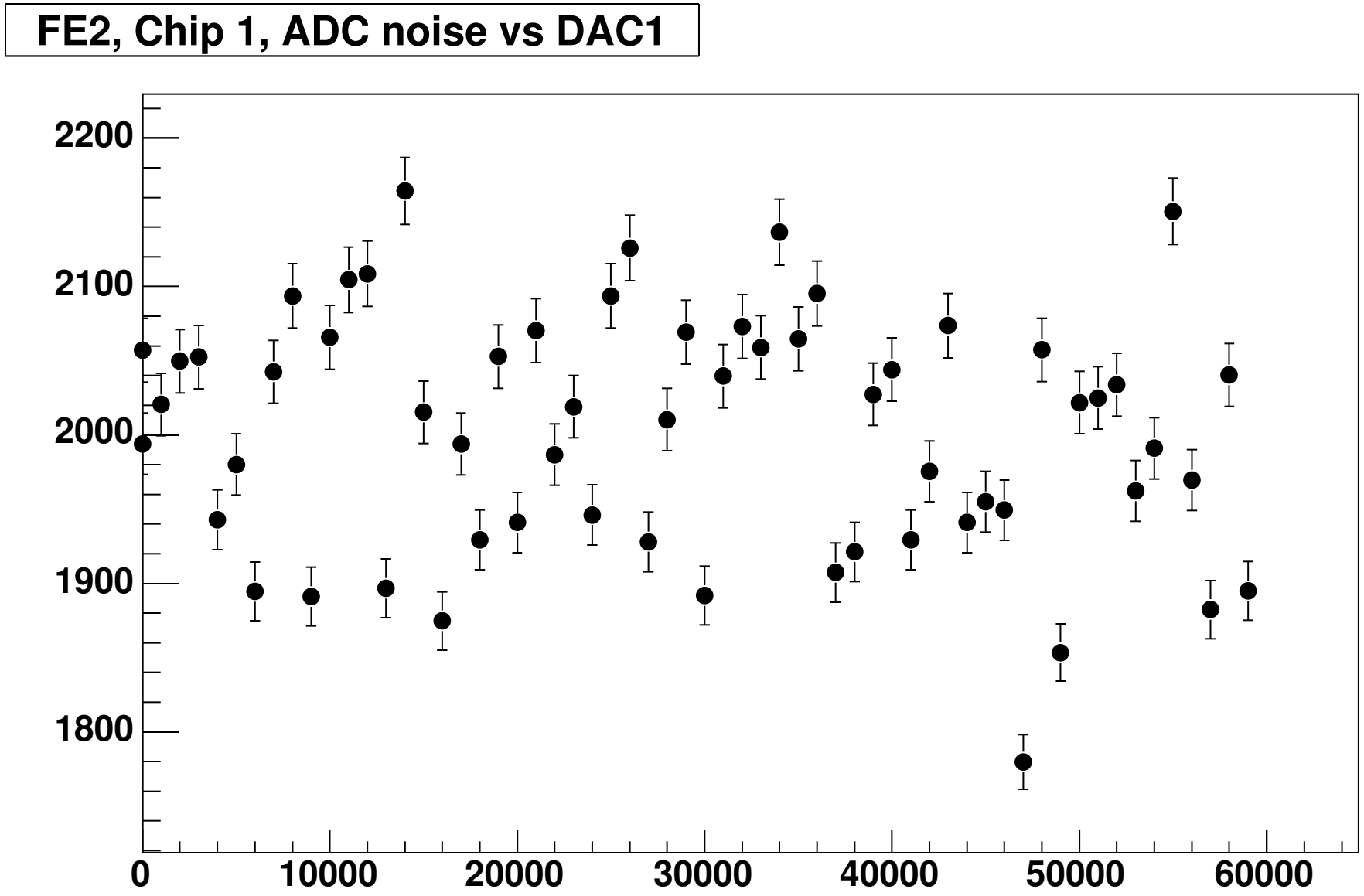
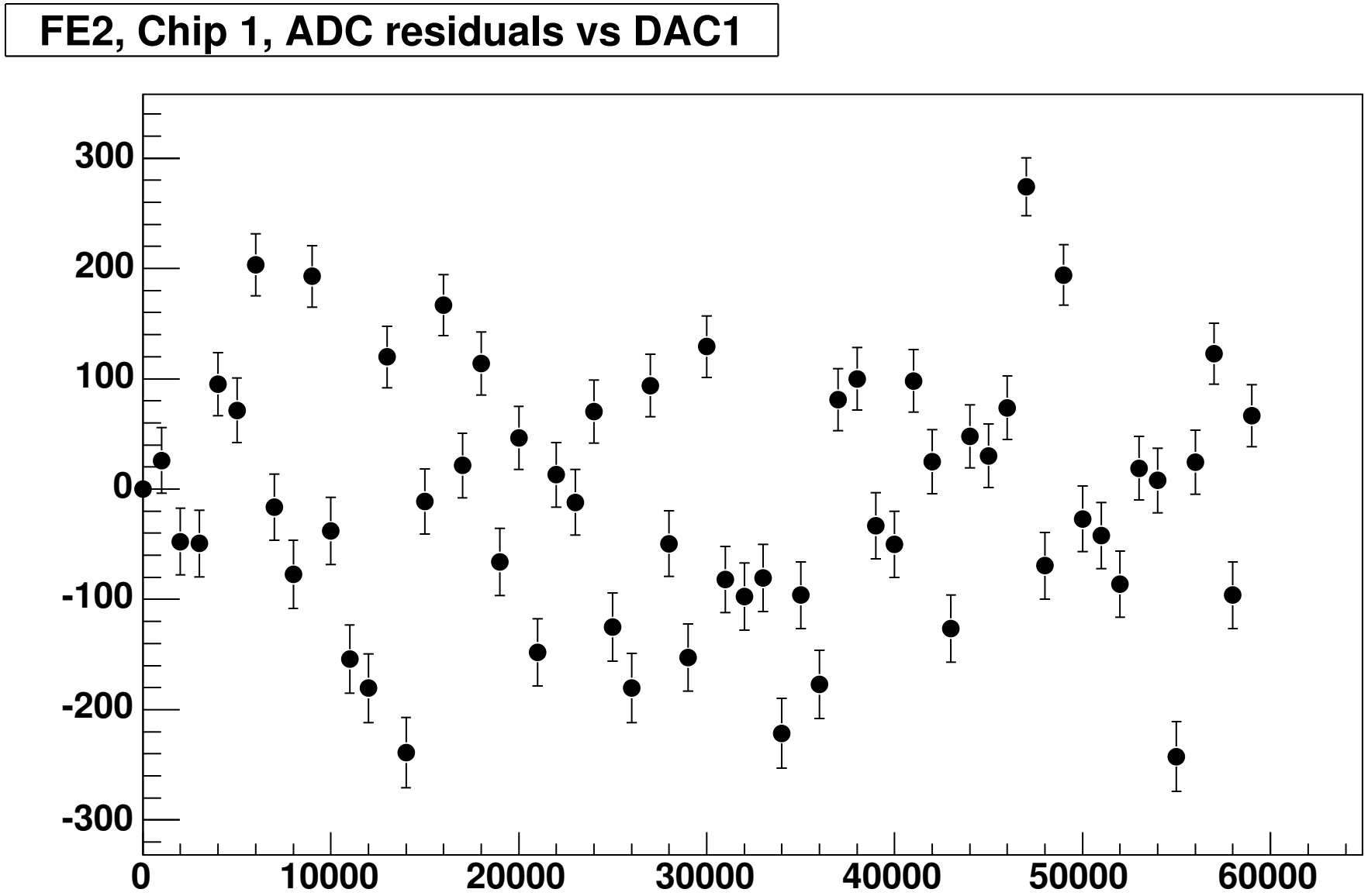
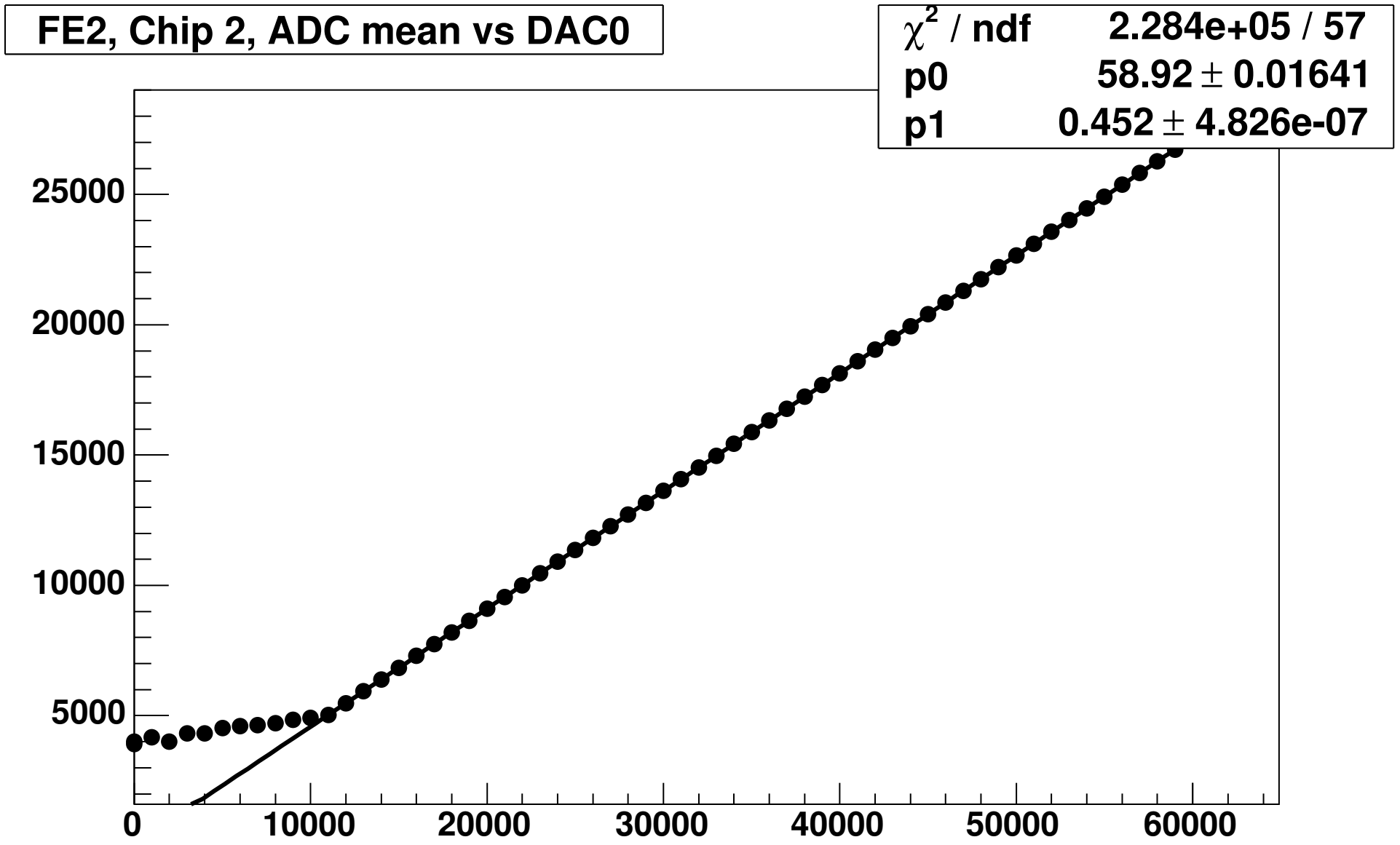
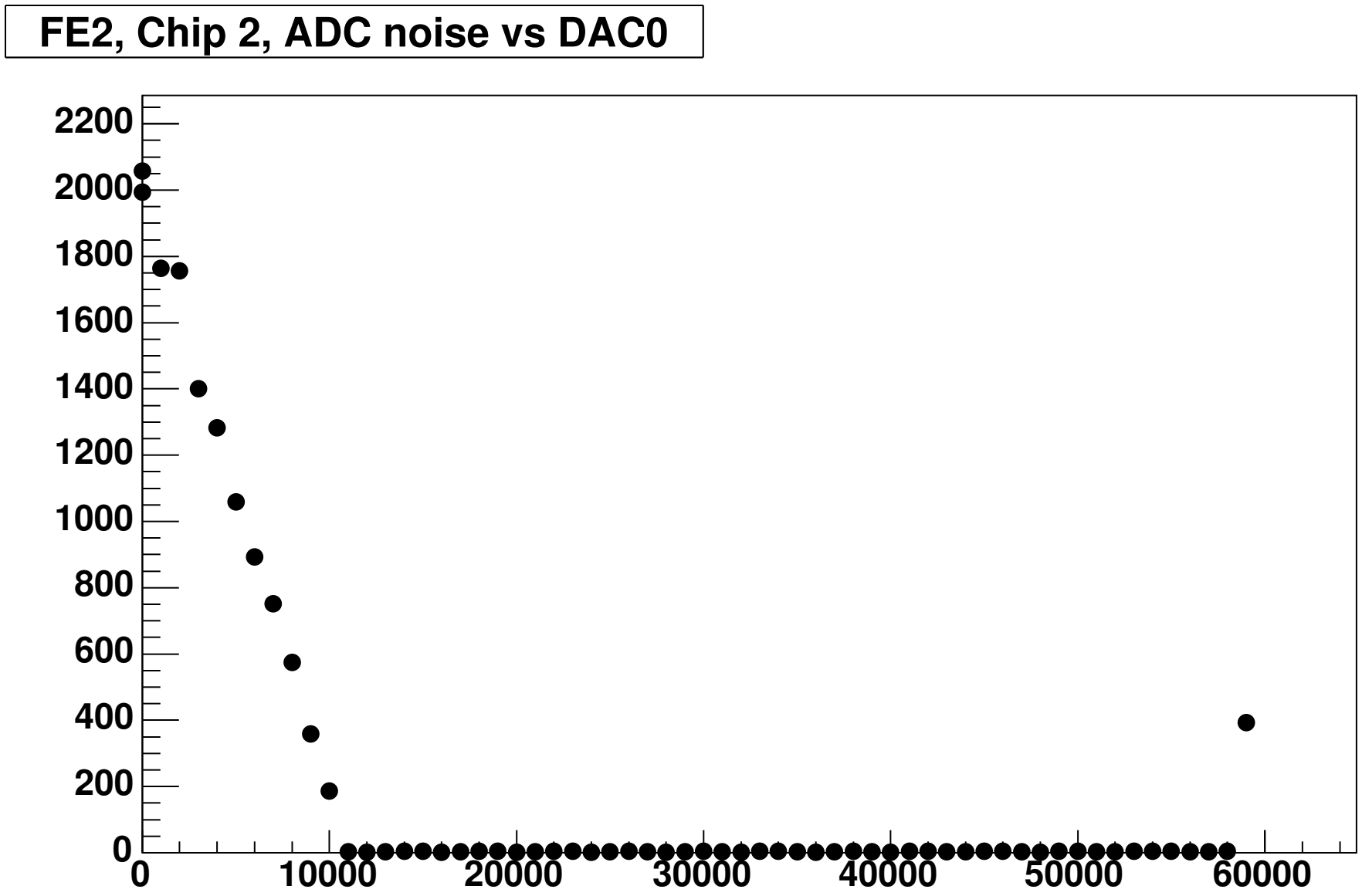
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE2, Chip 1, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE2, Chip 1, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE2, Chip 2, ADC mean vs DAC0
χ² / ndf 2.284e+05 / 57
p0 58.92 ± 0.01641
p1 0.452 ± 4.826e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE2, Chip 2, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
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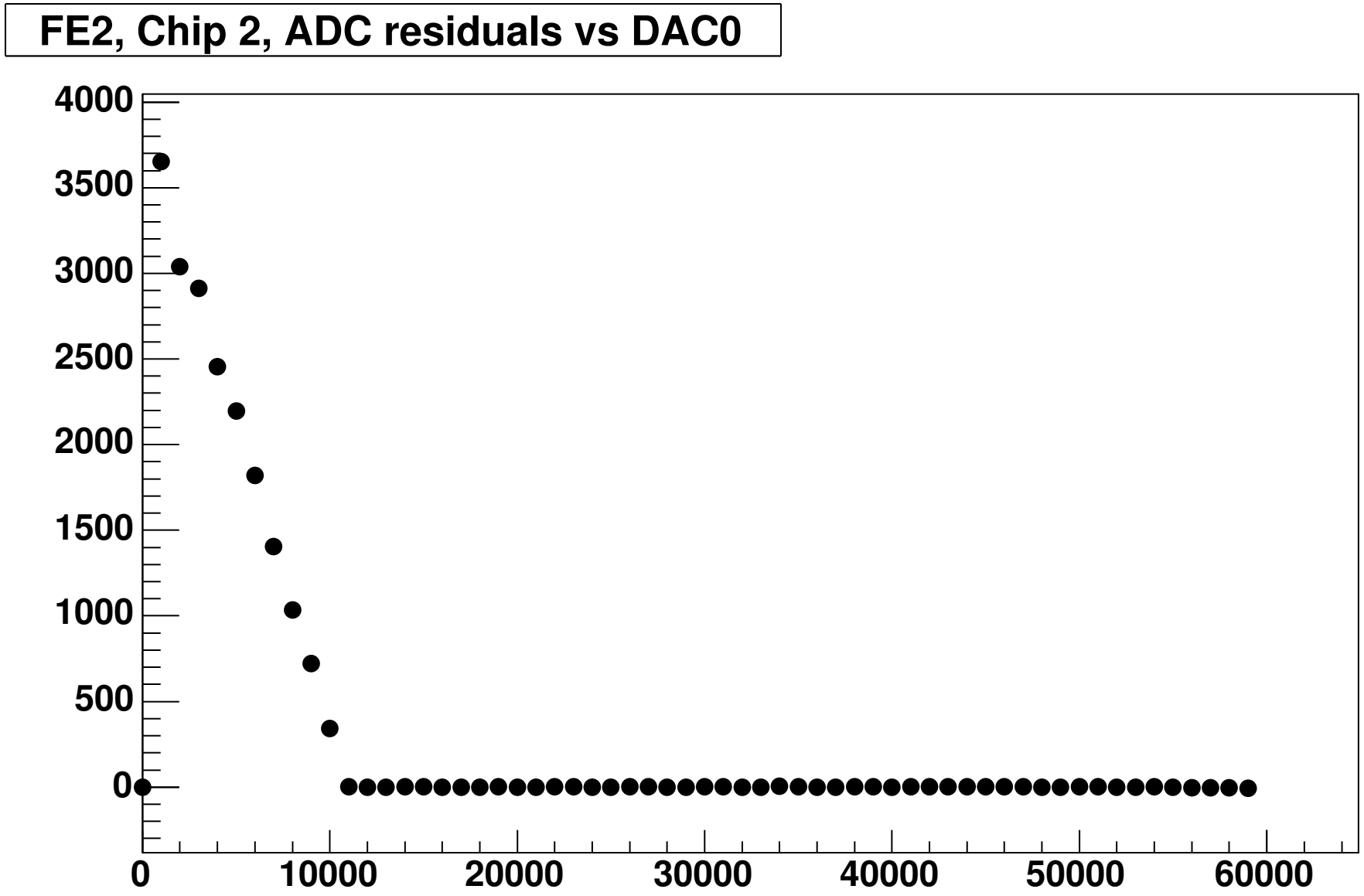
FE2, Chip 2, ADC residuals vs DAC0
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3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
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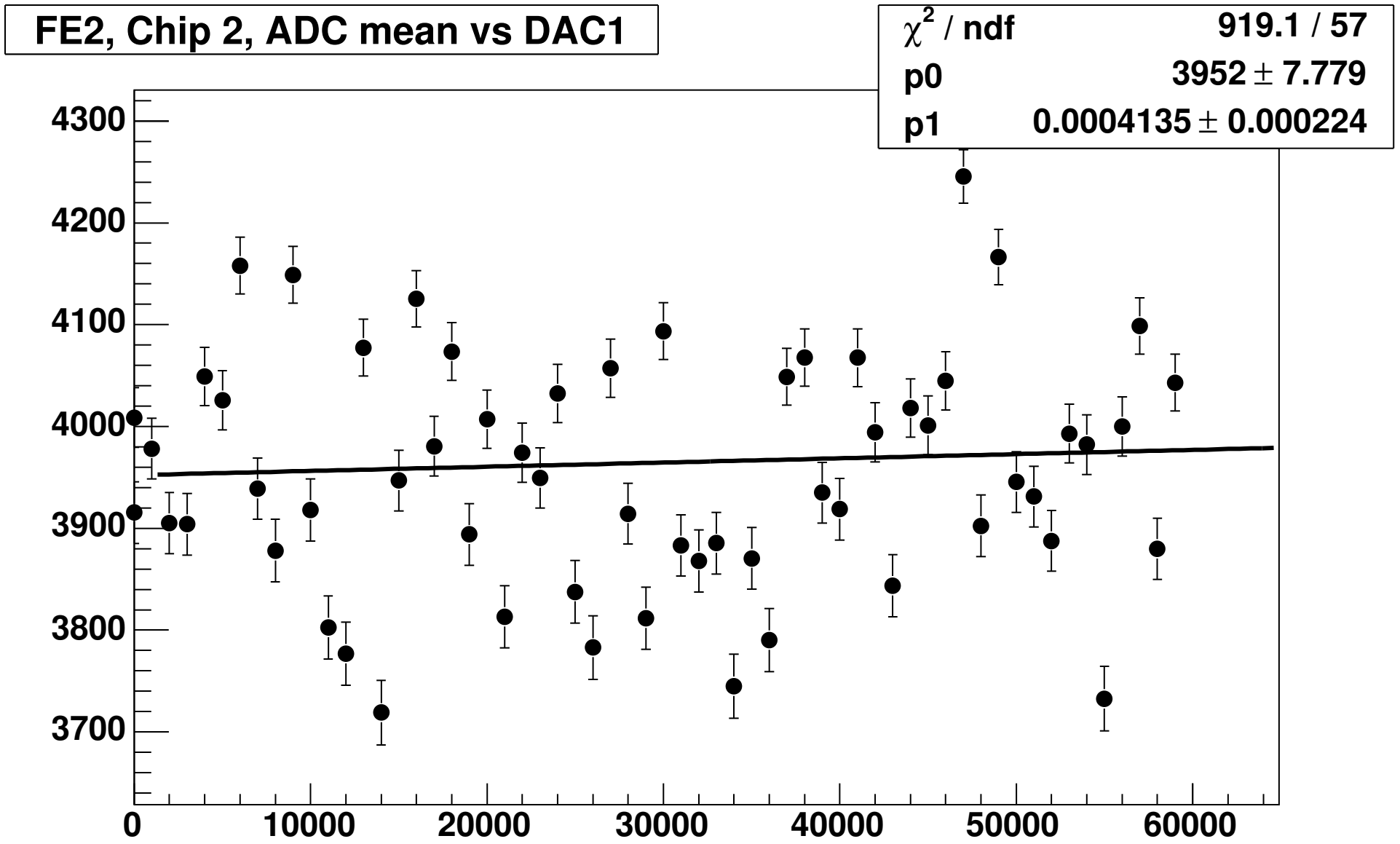
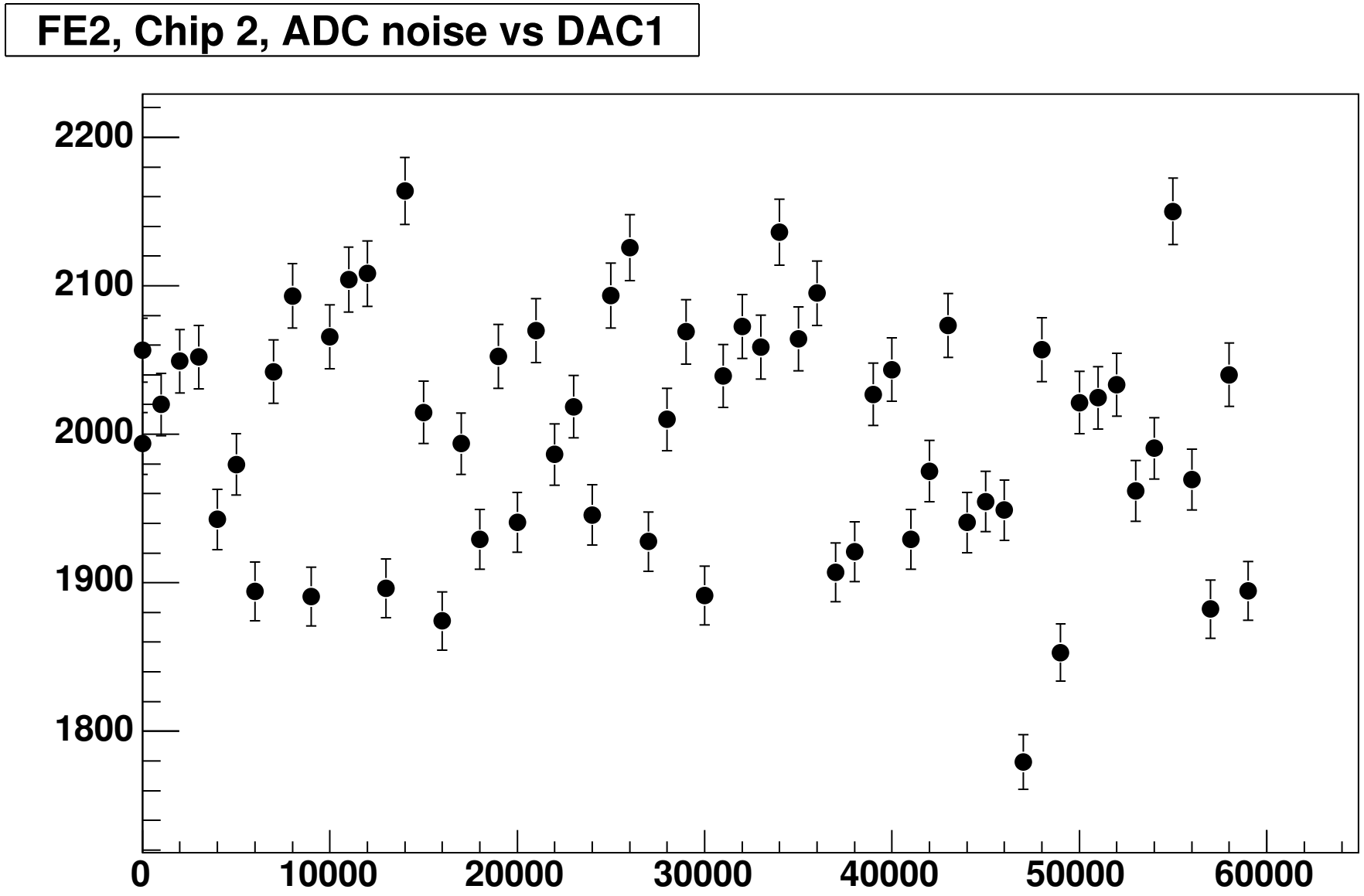
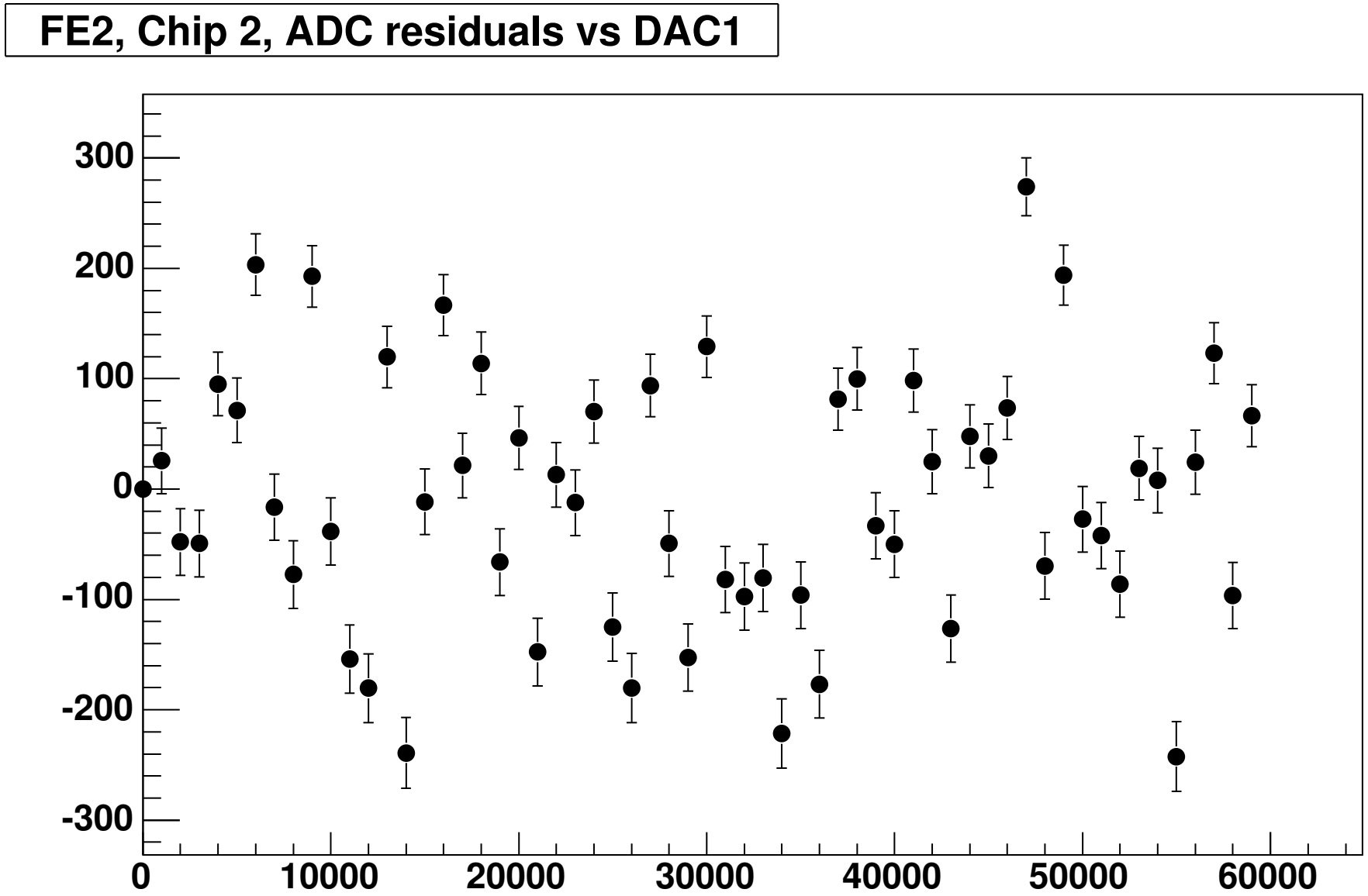

FE2, Chip 2, ADC mean vs DAC1
χ² / ndf 919.1 / 57
p0 3952 ± 7.779
p1 0.0004135 ± 0.000224
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE2, Chip 2, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE2, Chip 2, ADC residuals vs DAC1
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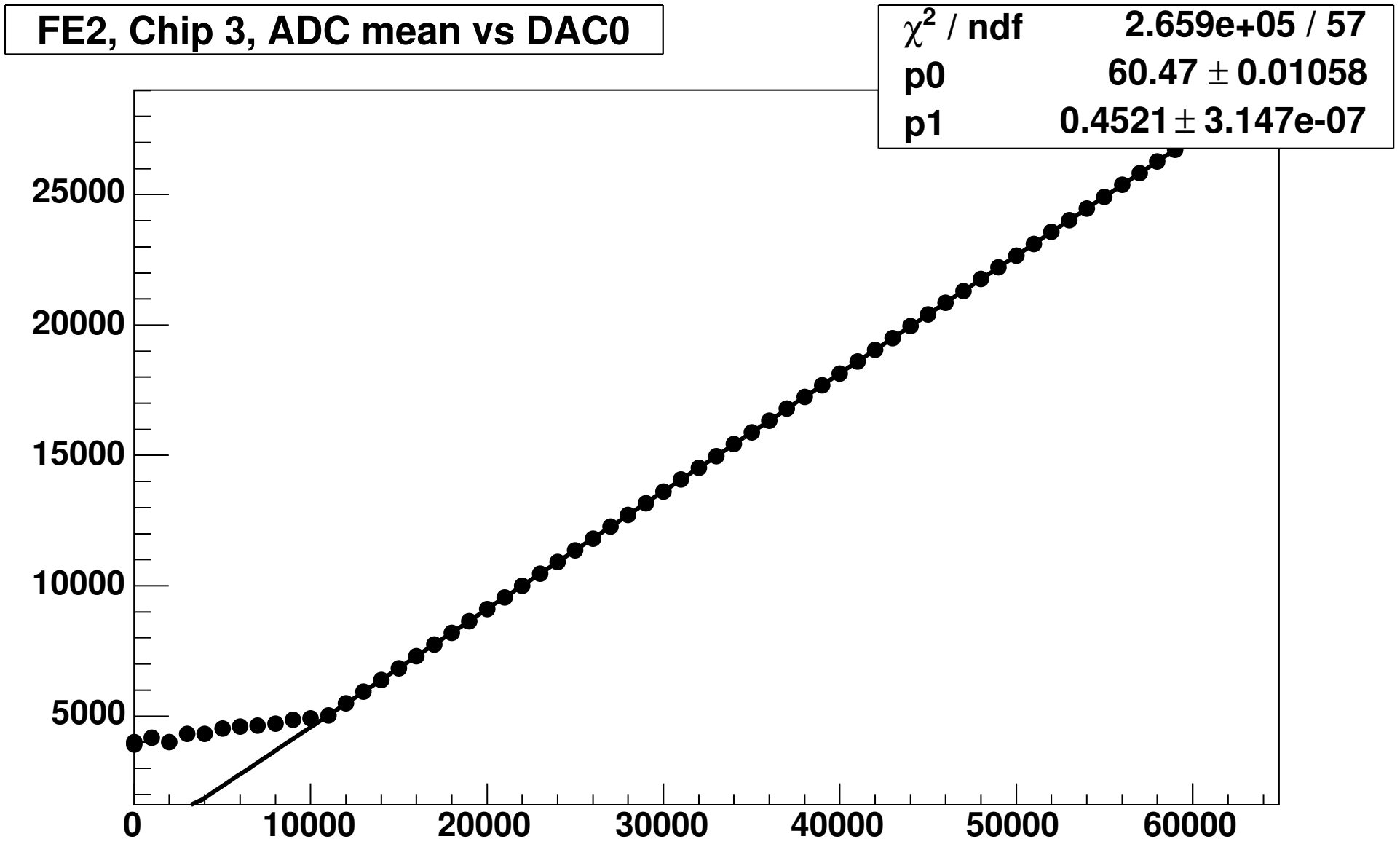
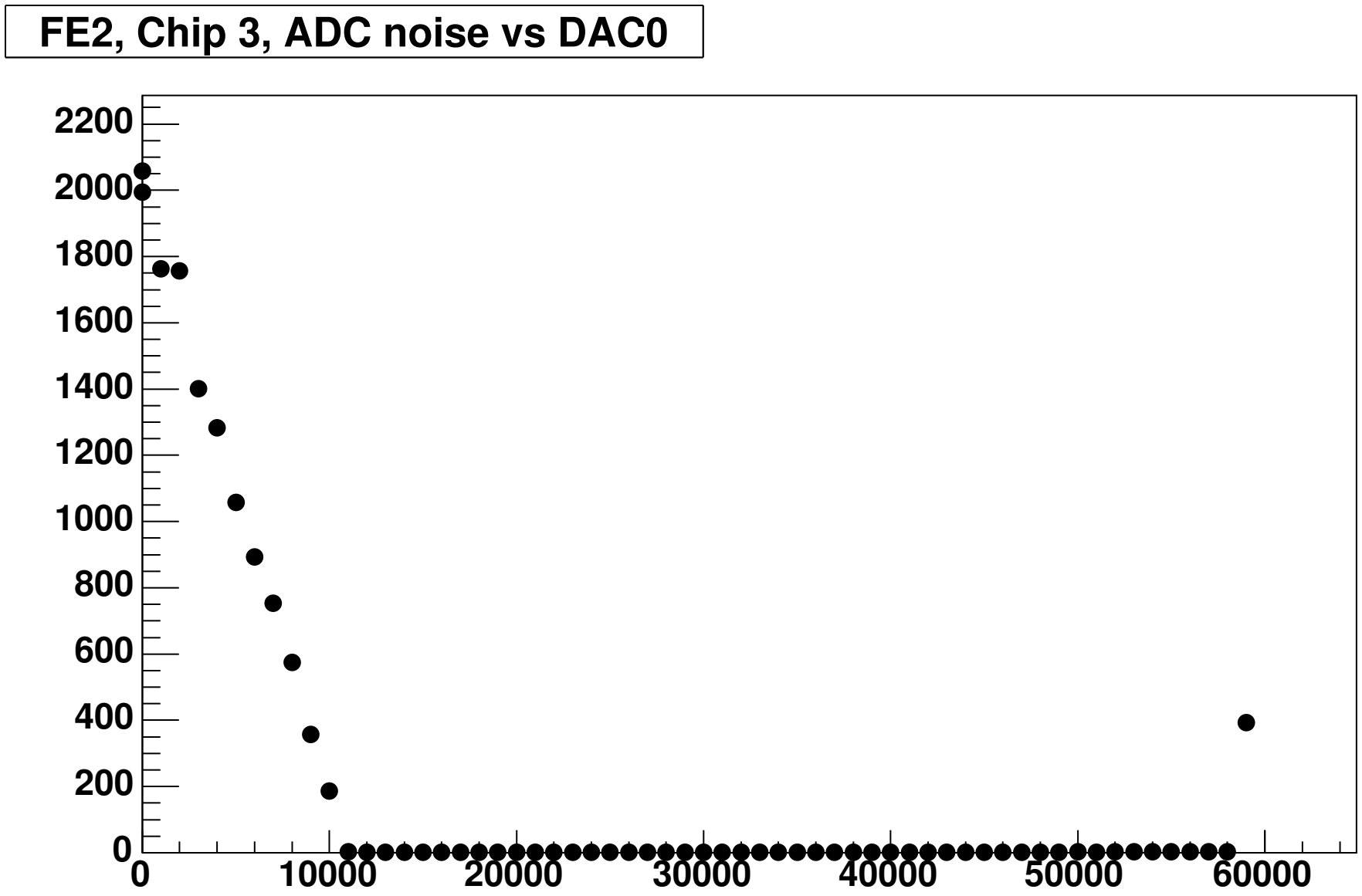
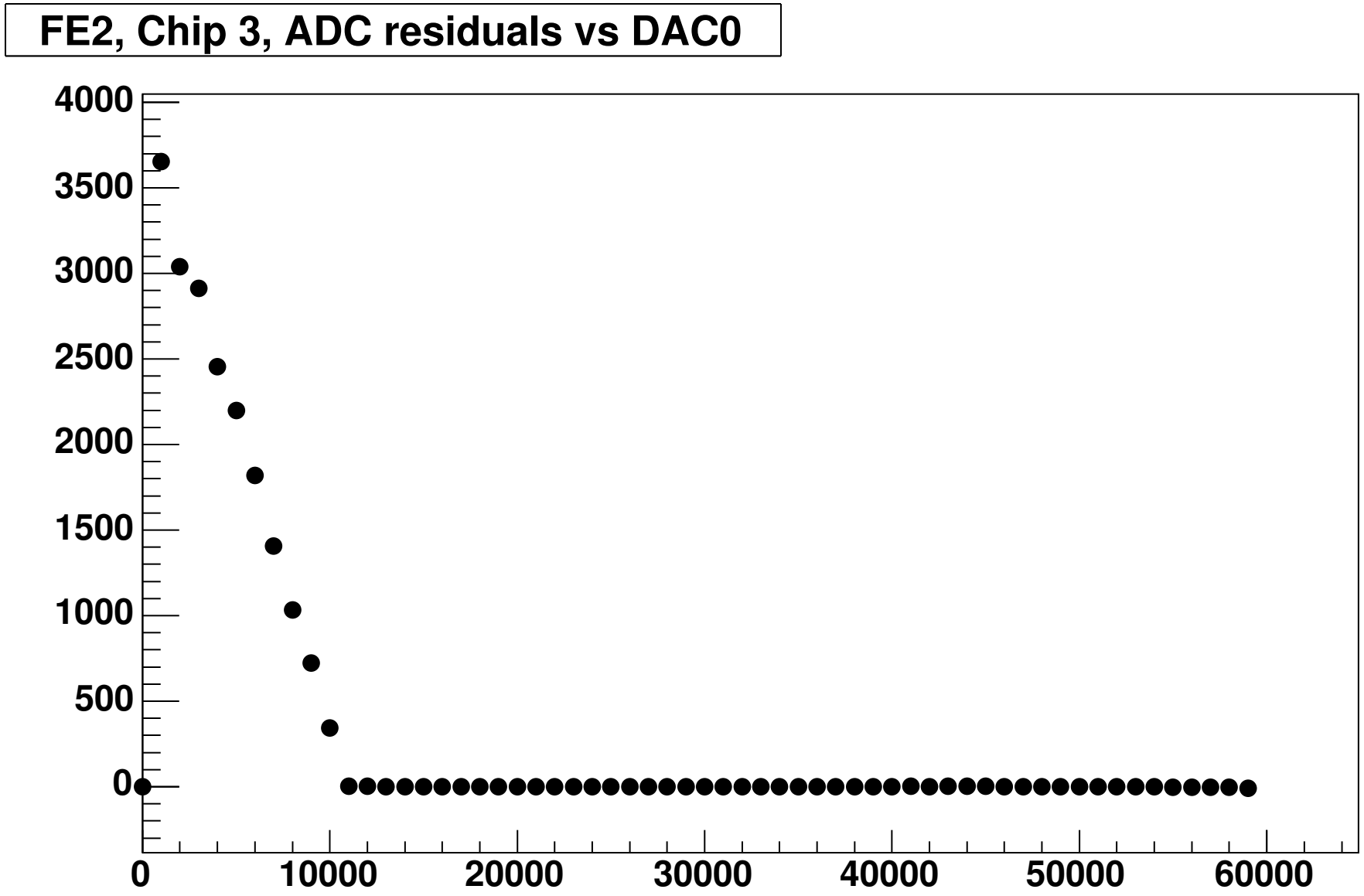
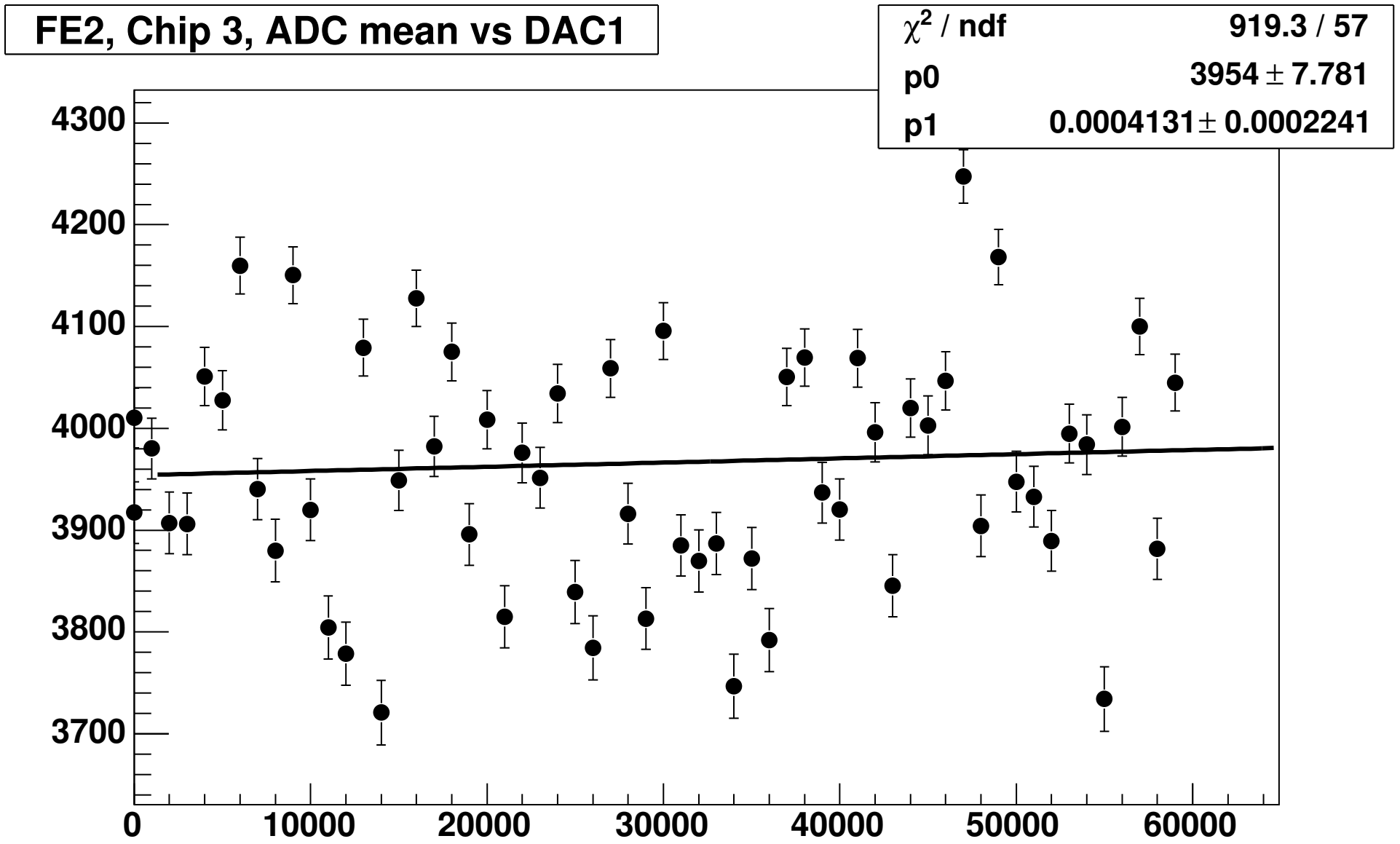
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE2, Chip 3, ADC mean vs DAC0
χ² / ndf 2.659e+05 / 57
p0 60.47 ± 0.01058
p1 0.4521 ± 3.147e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE2, Chip 3, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 3, ADC residuals vs DAC0
4000
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 3, ADC mean vs DAC1
χ² / ndf 919.3 / 57
p0 3954 ± 7.781
p1 0.0004131 ± 0.0002241
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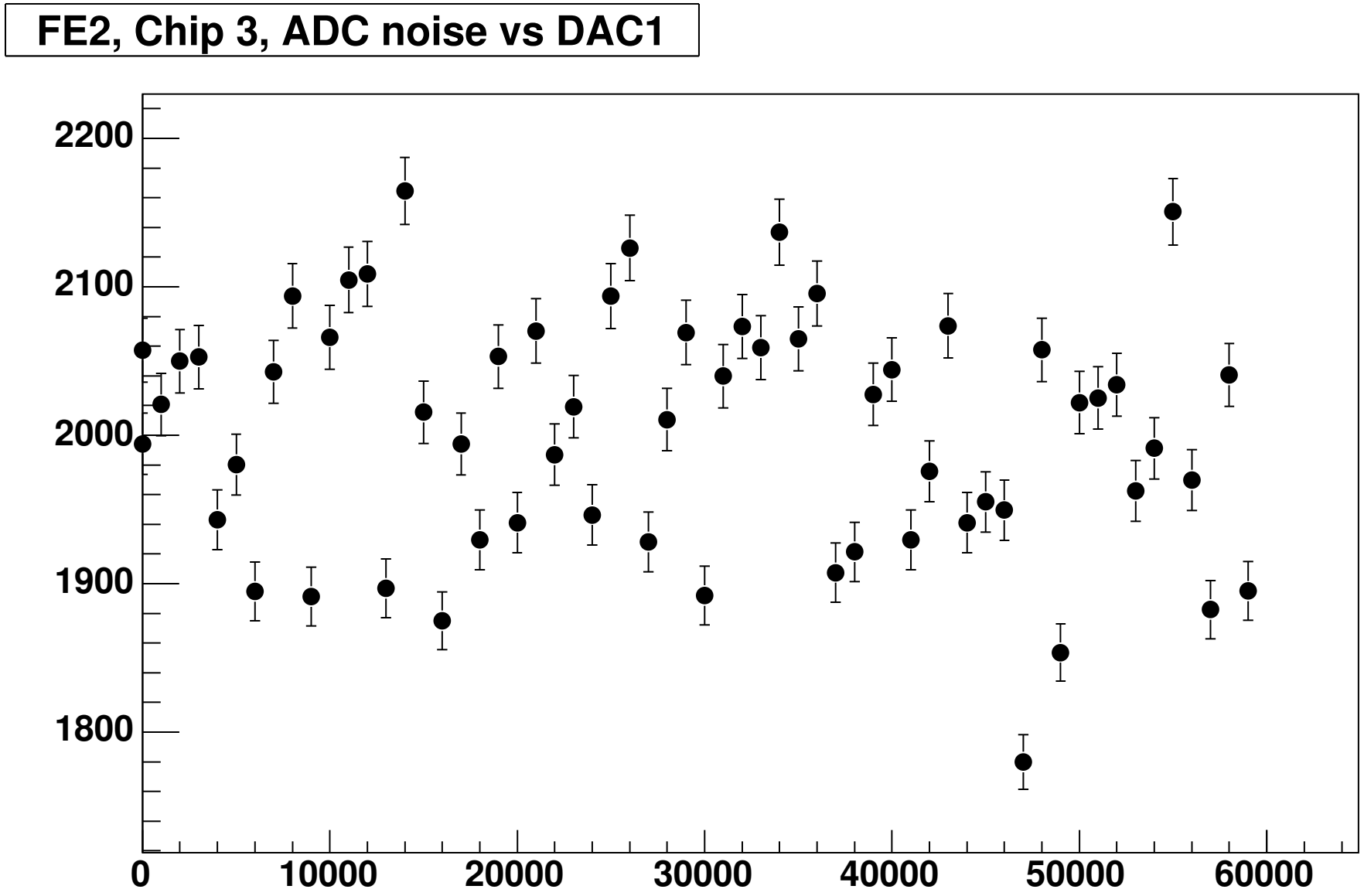
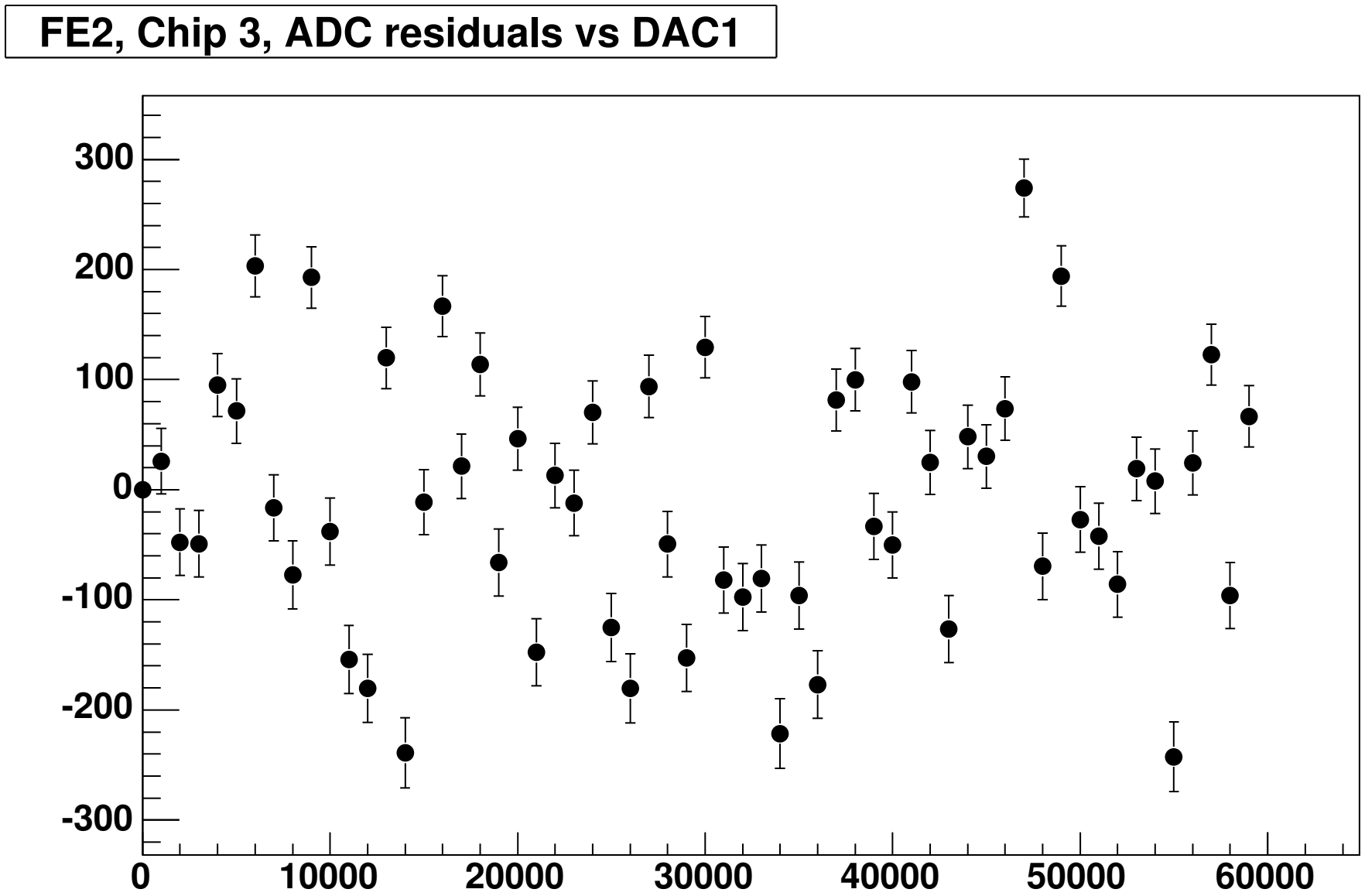
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE2, Chip 3, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE2, Chip 3, ADC residuals vs DAC1
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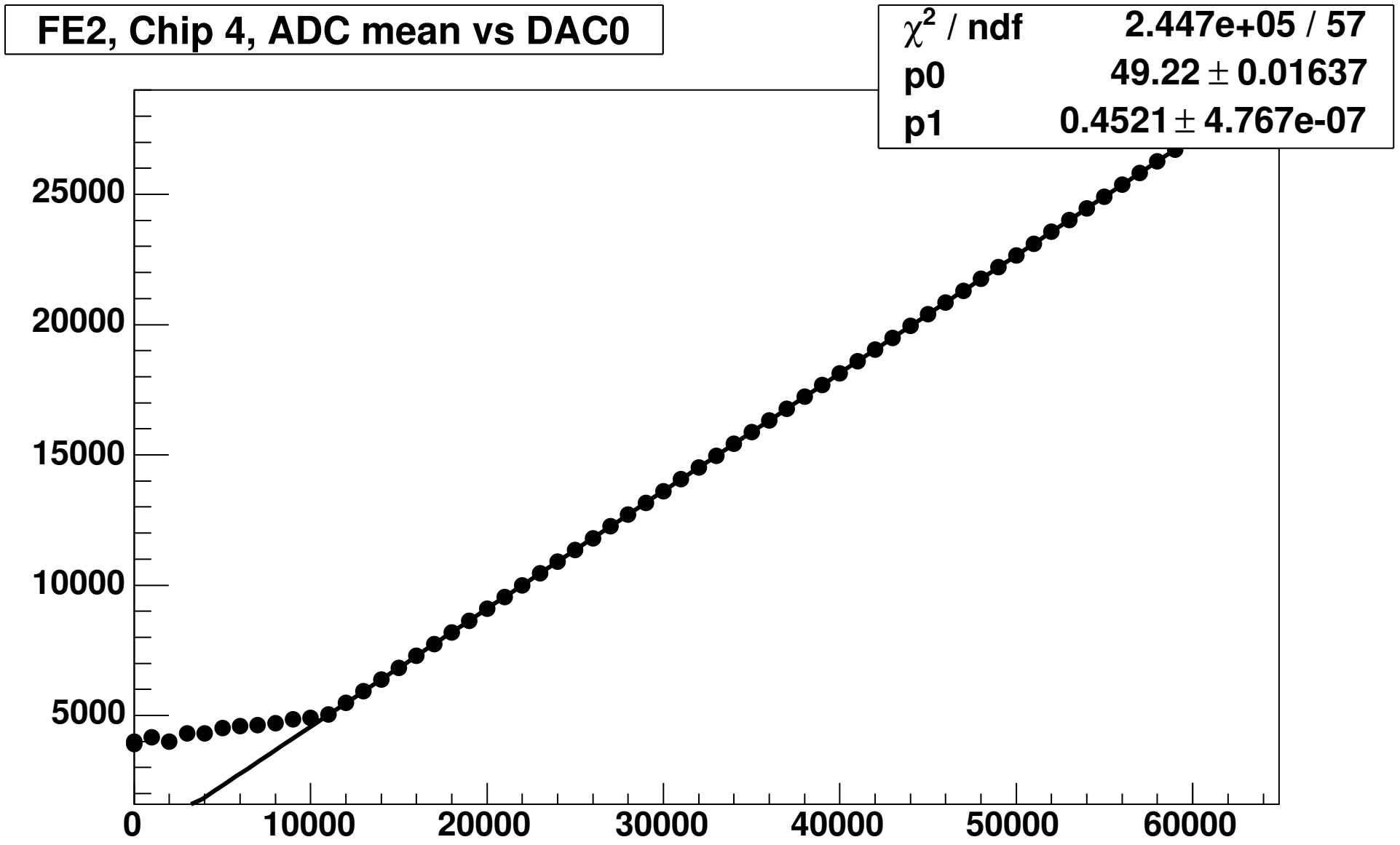
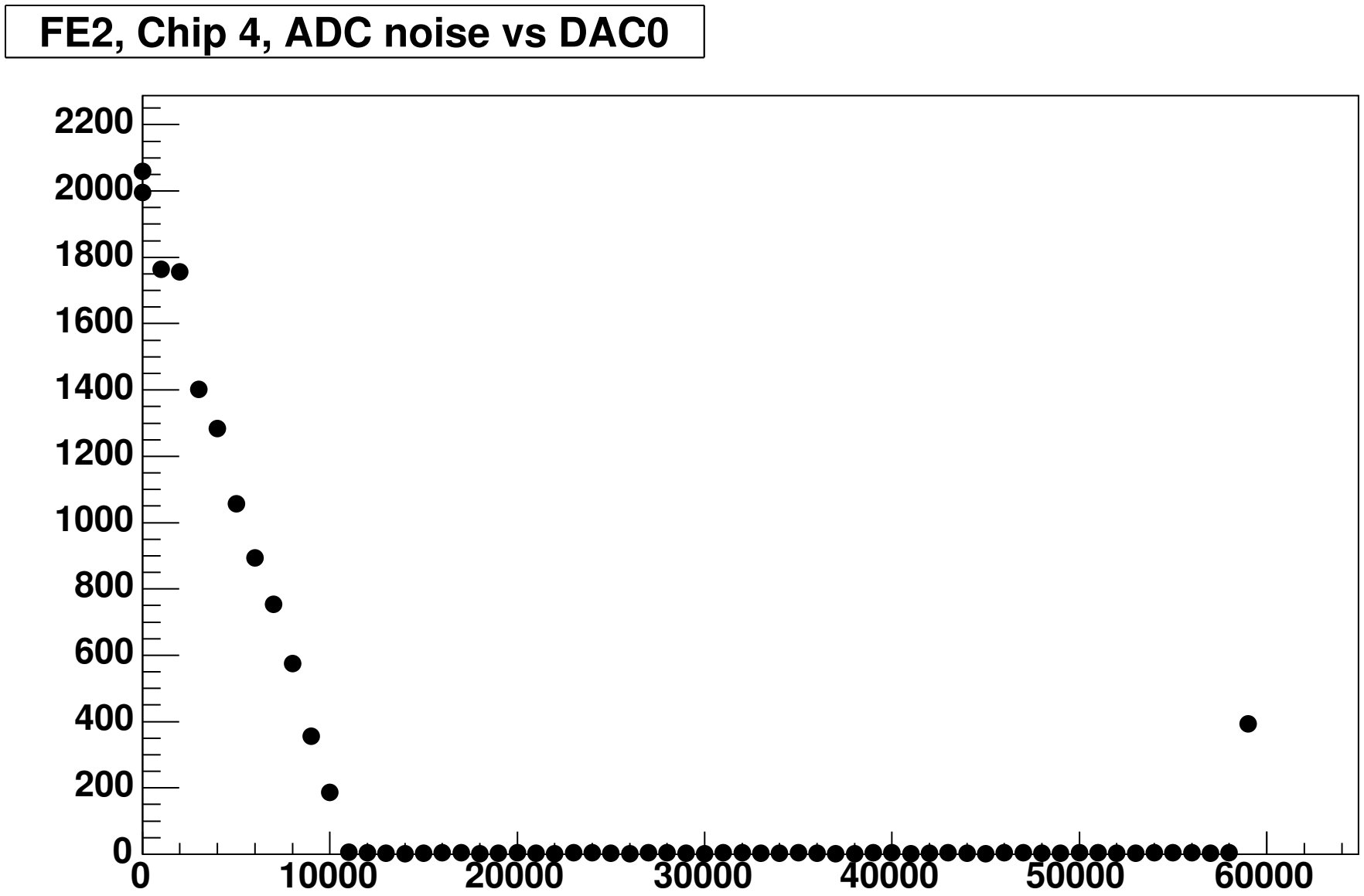
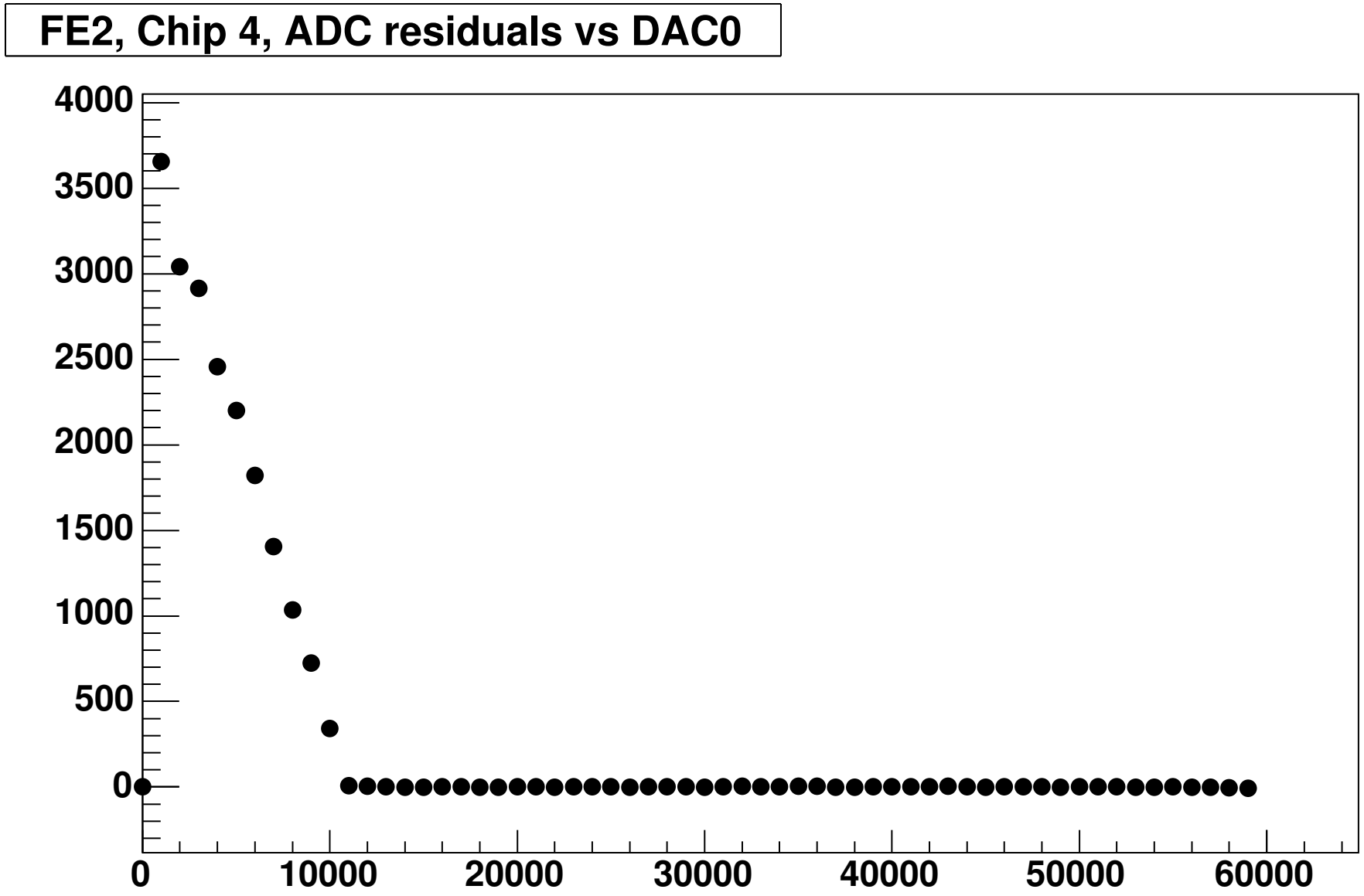
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE2, Chip 4, ADC mean vs DAC0
χ² / ndf 2.447e+05 / 57
p0 49.22 ± 0.01637
p1 0.4521 ± 4.767e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE2, Chip 4, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 4, ADC residuals vs DAC0
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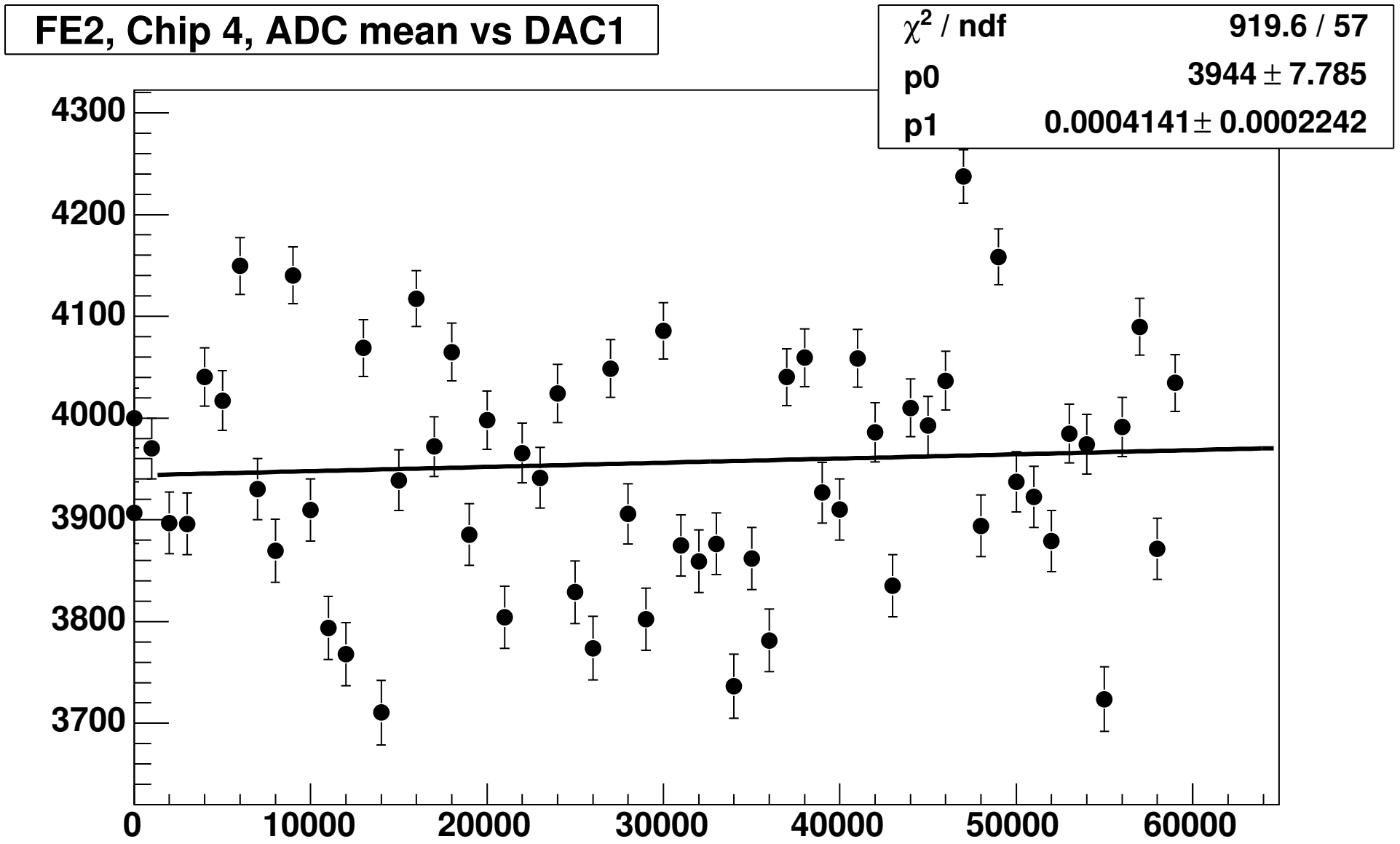
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 4, ADC mean vs DAC1
χ² / ndf 919.6 / 57
p0 3944 ± 7.785
p1 0.0004141 ± 0.0002242
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4100
4000
3900
3800
3700
0
10000
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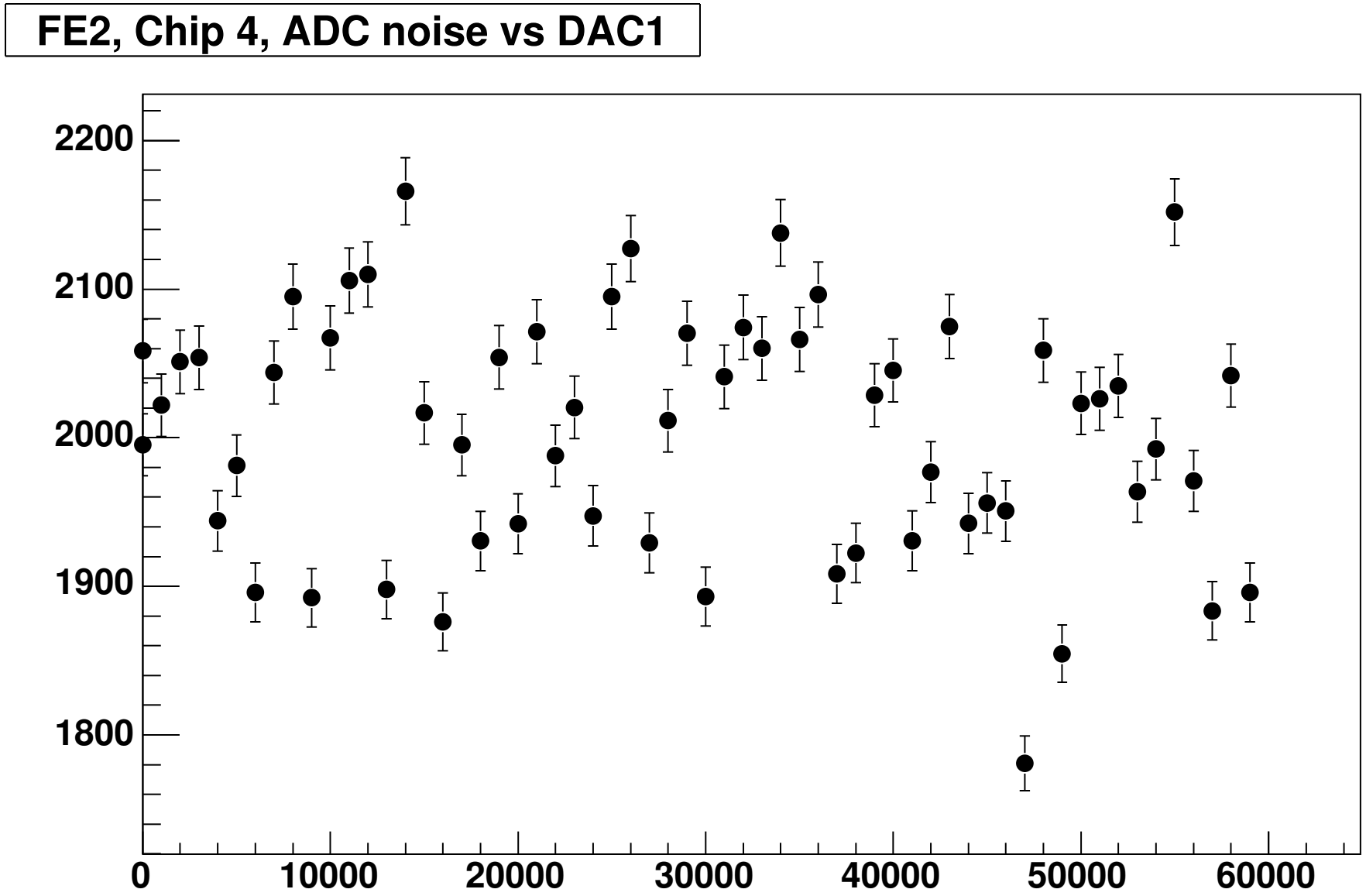
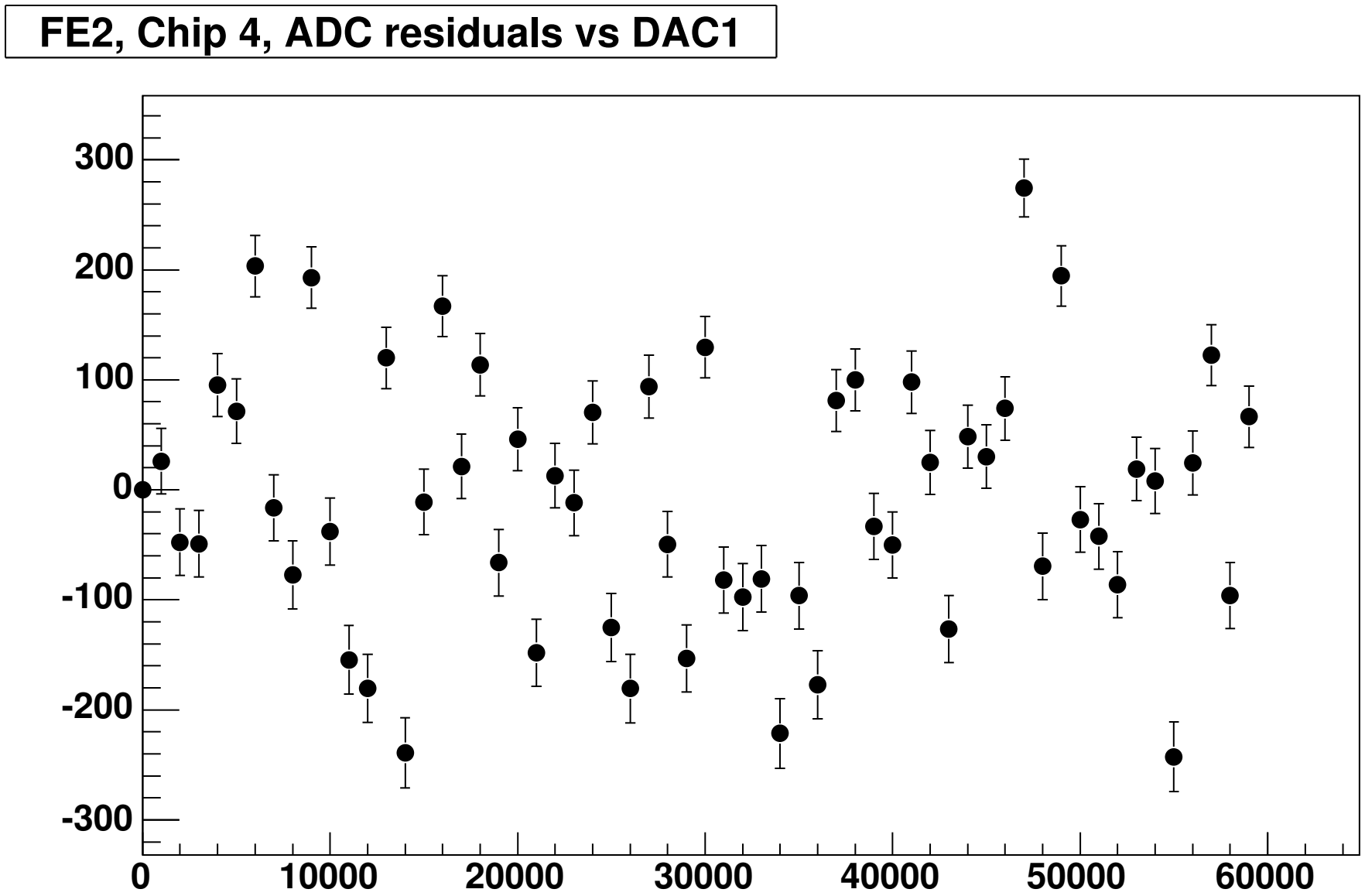
40000
50000
60000


FE2, Chip 4, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE2, Chip 4, ADC residuals vs DAC1
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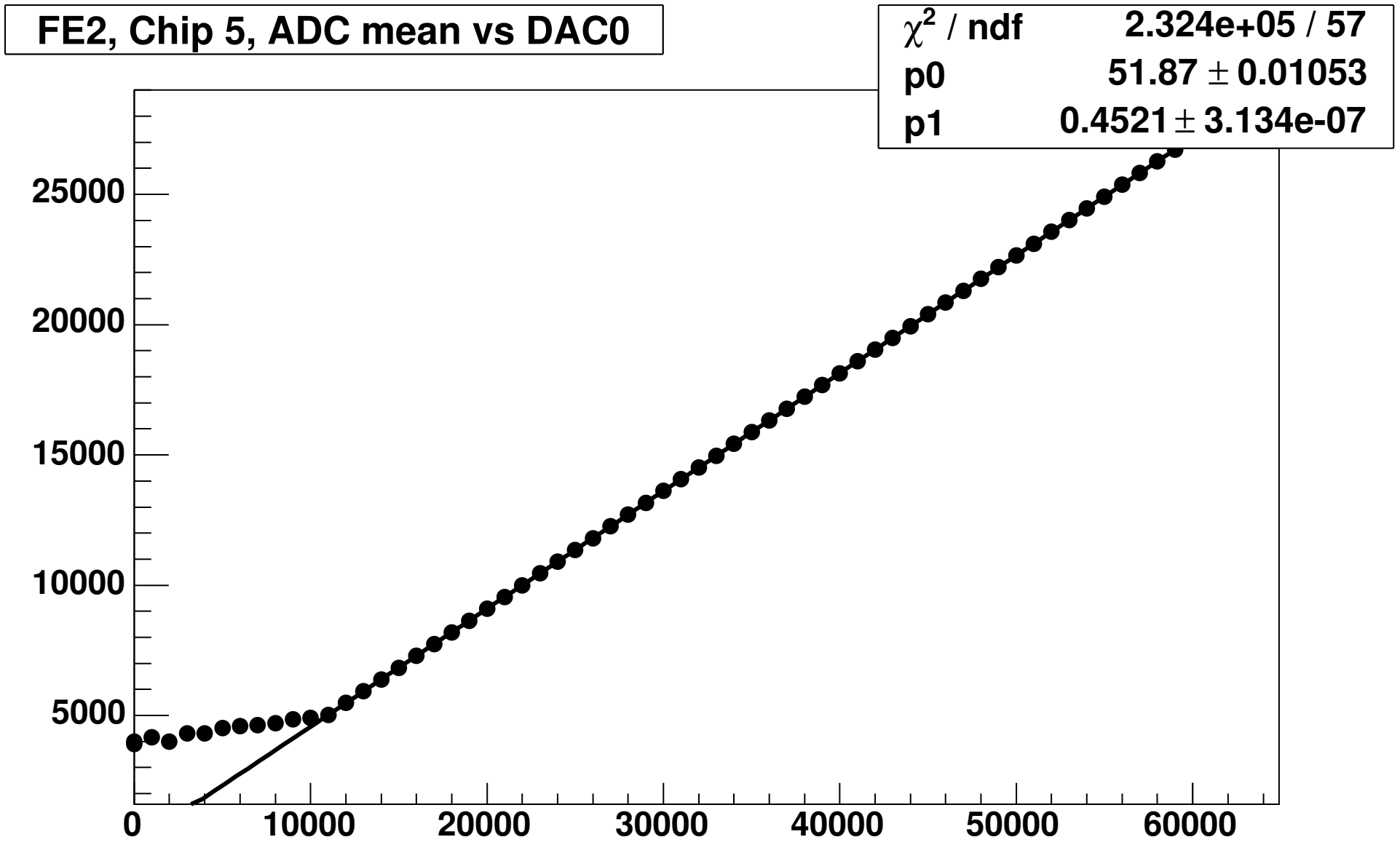
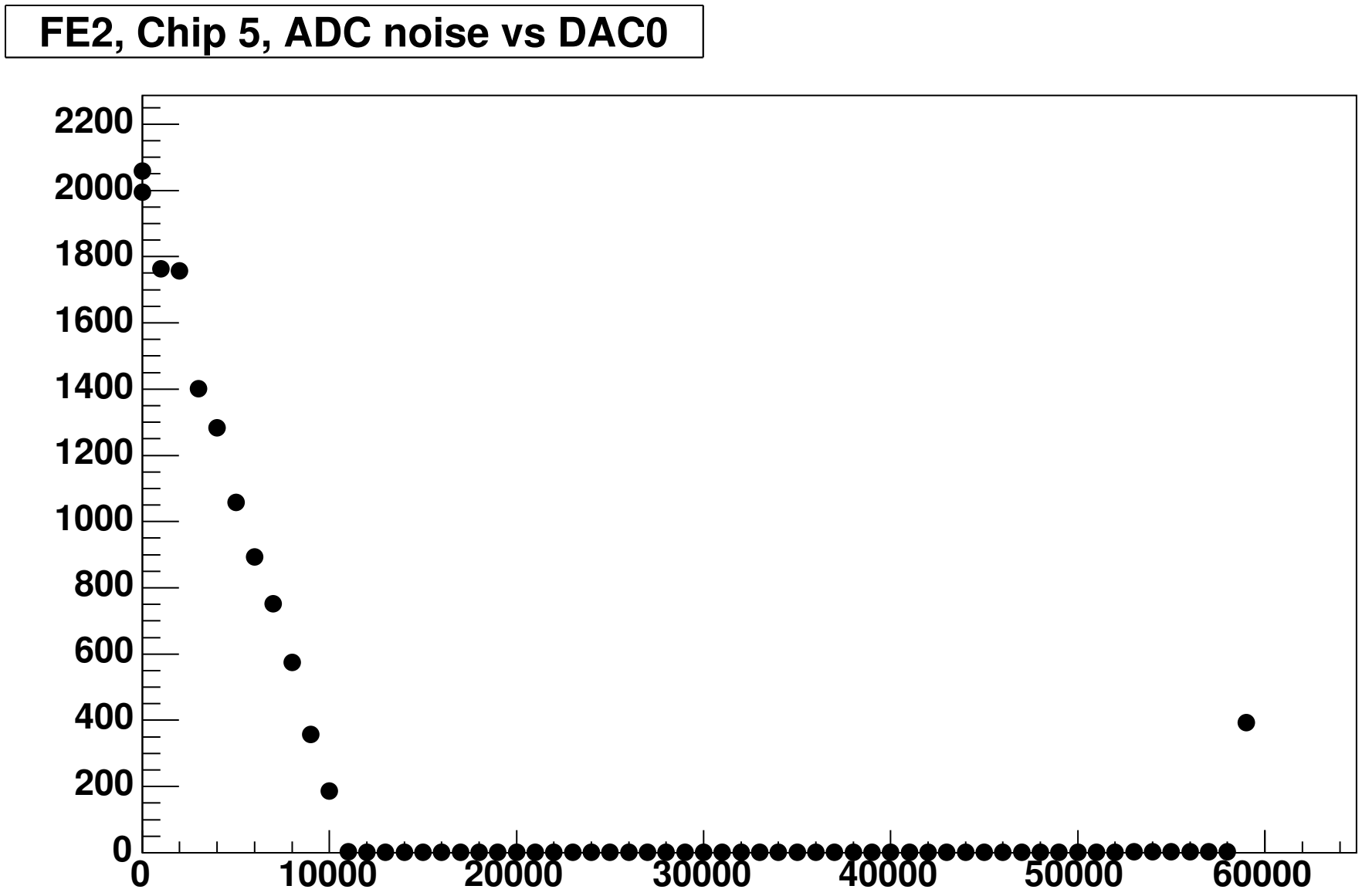
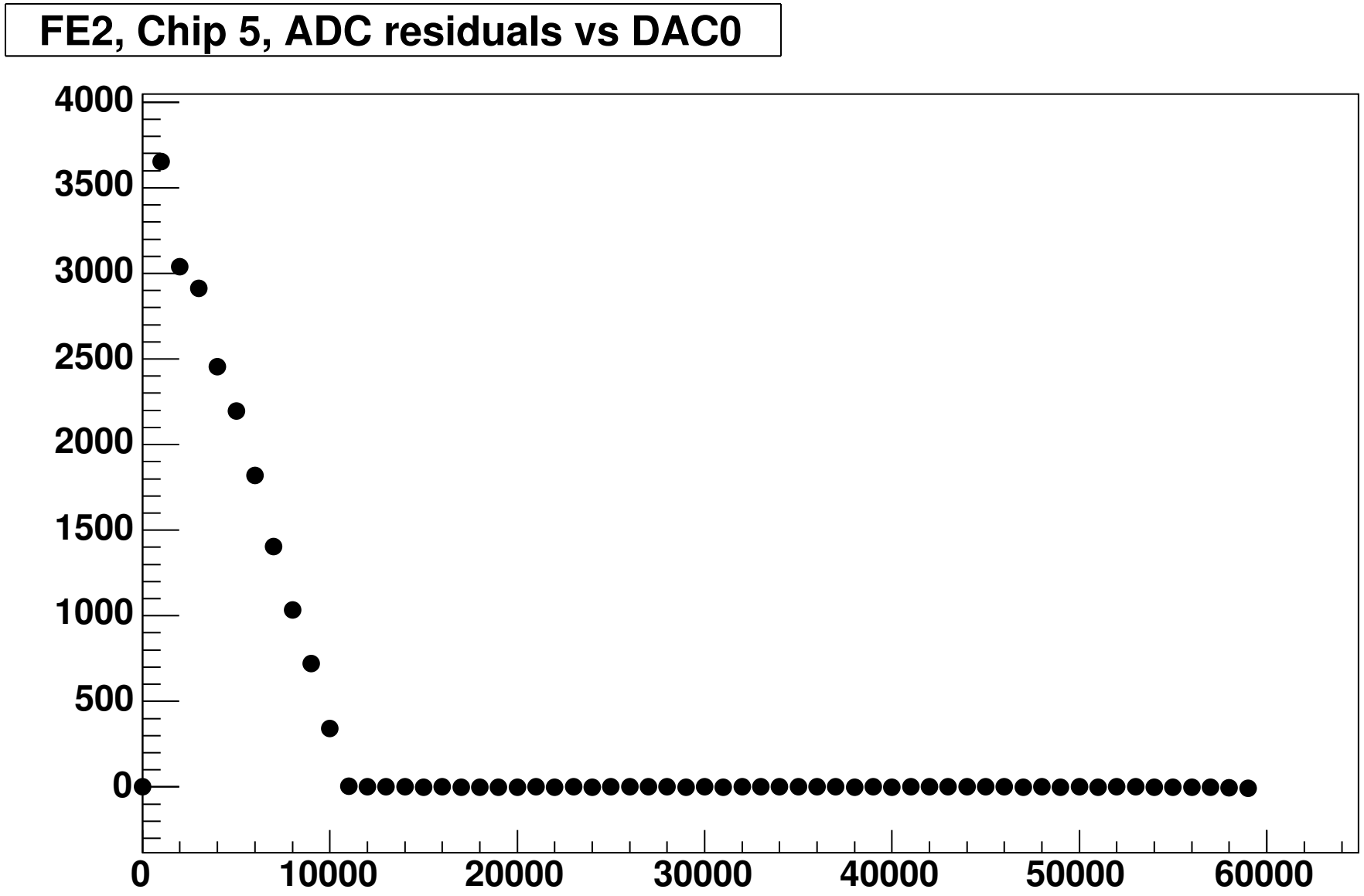
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE2, Chip 5, ADC mean vs DAC0
χ² / ndf 2.324e+05 / 57
p0 51.87 ± 0.01053
p1 0.4521 ± 3.134e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE2, Chip 5, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 5, ADC residuals vs DAC0
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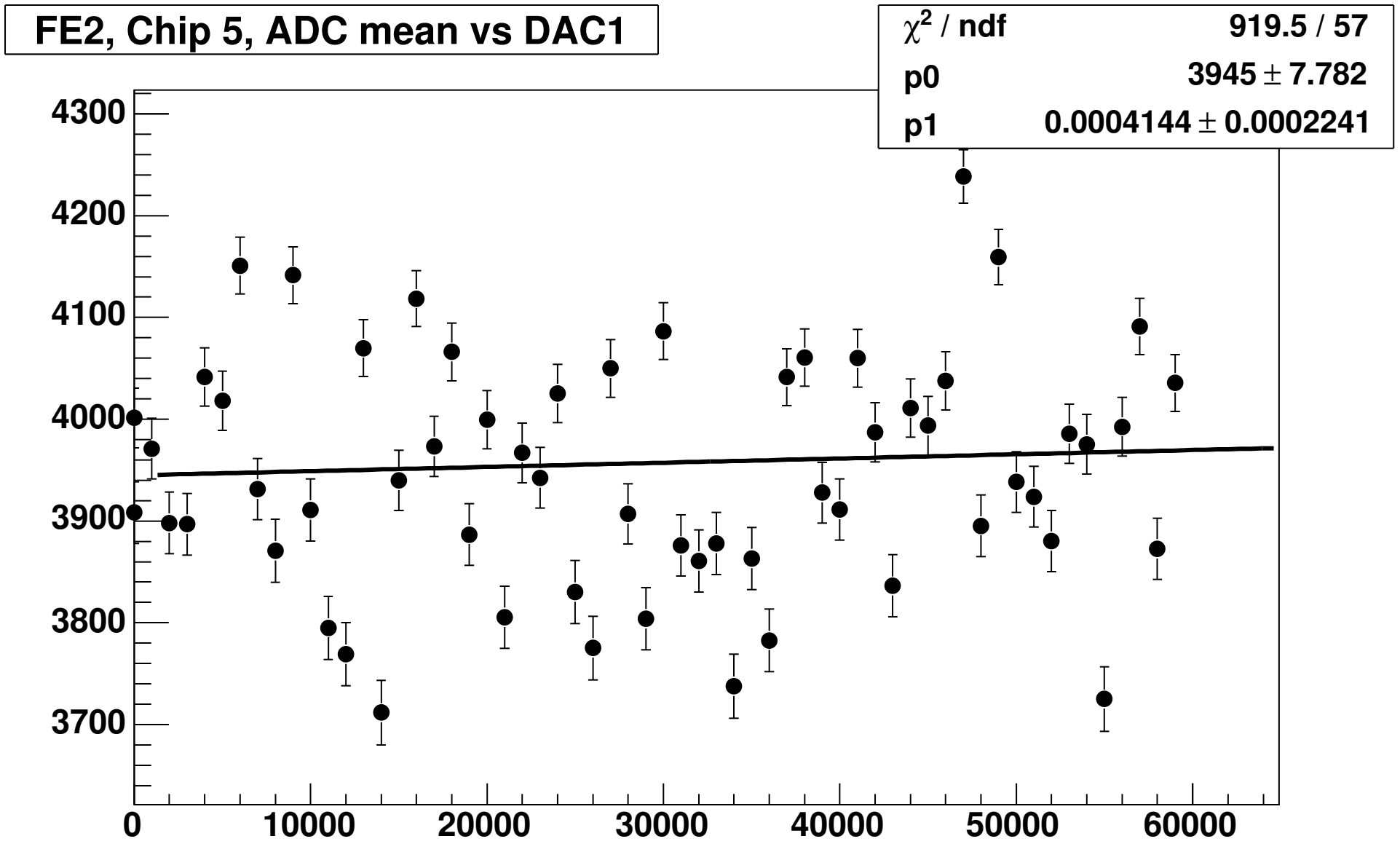
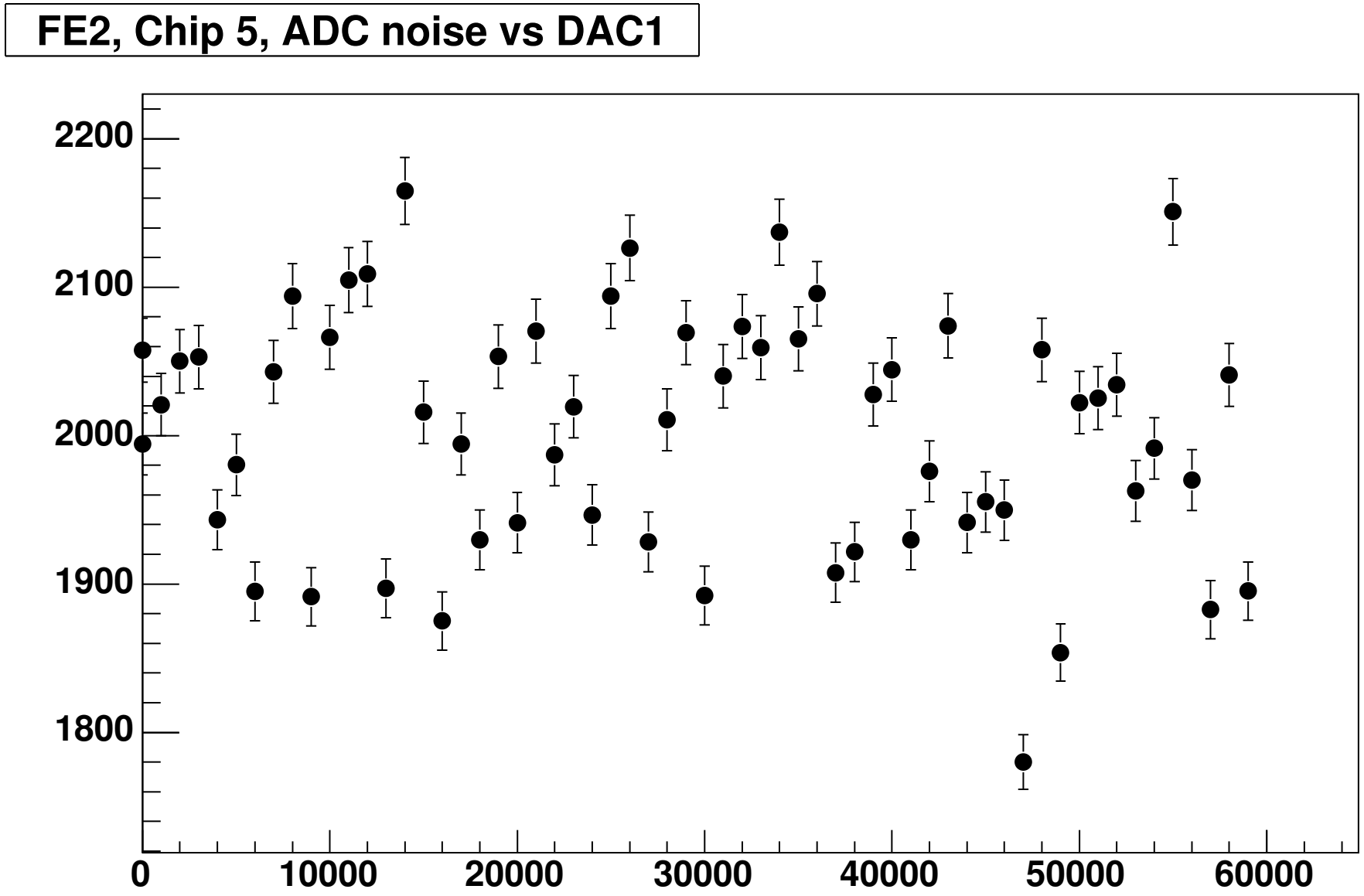
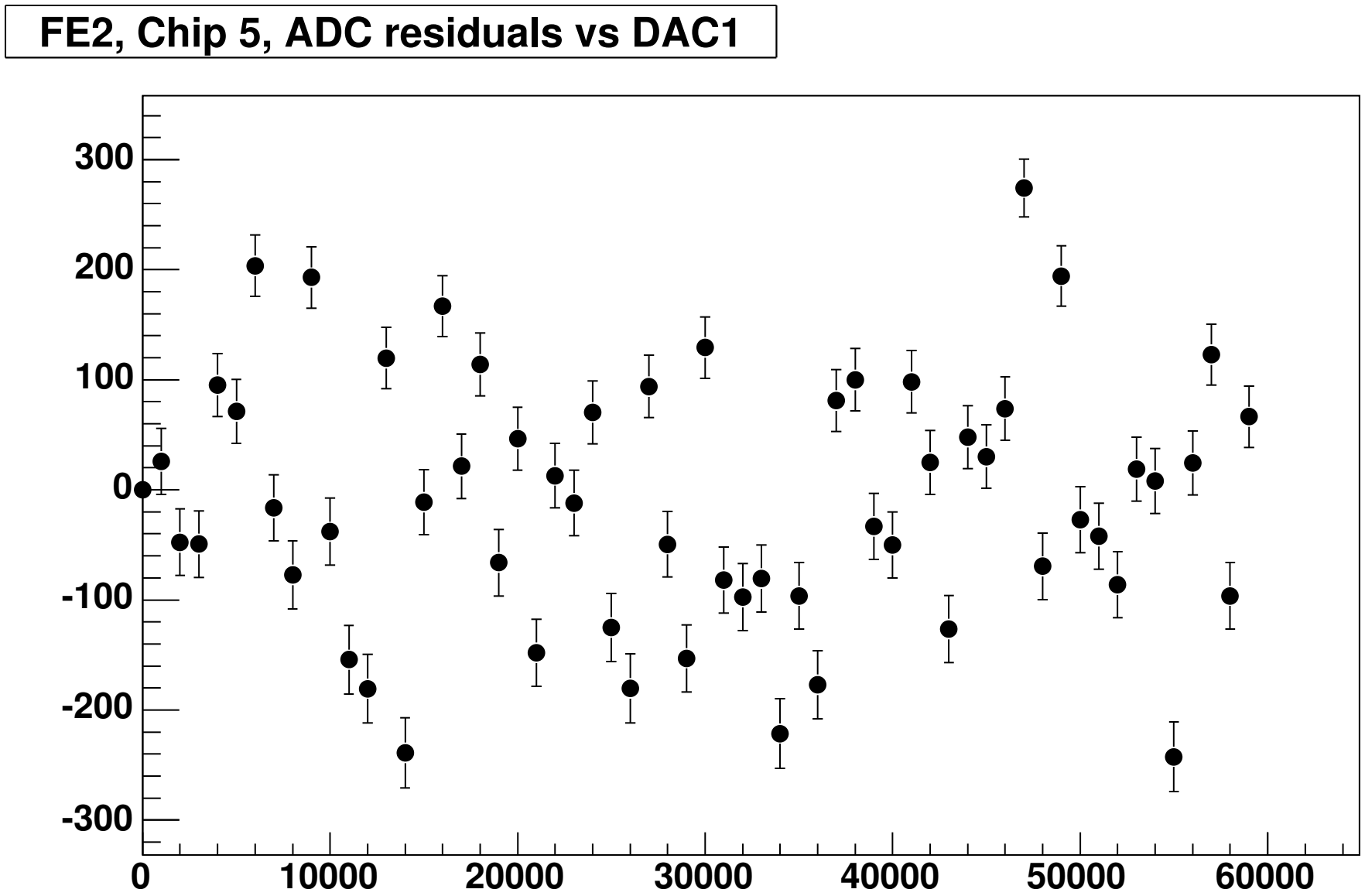
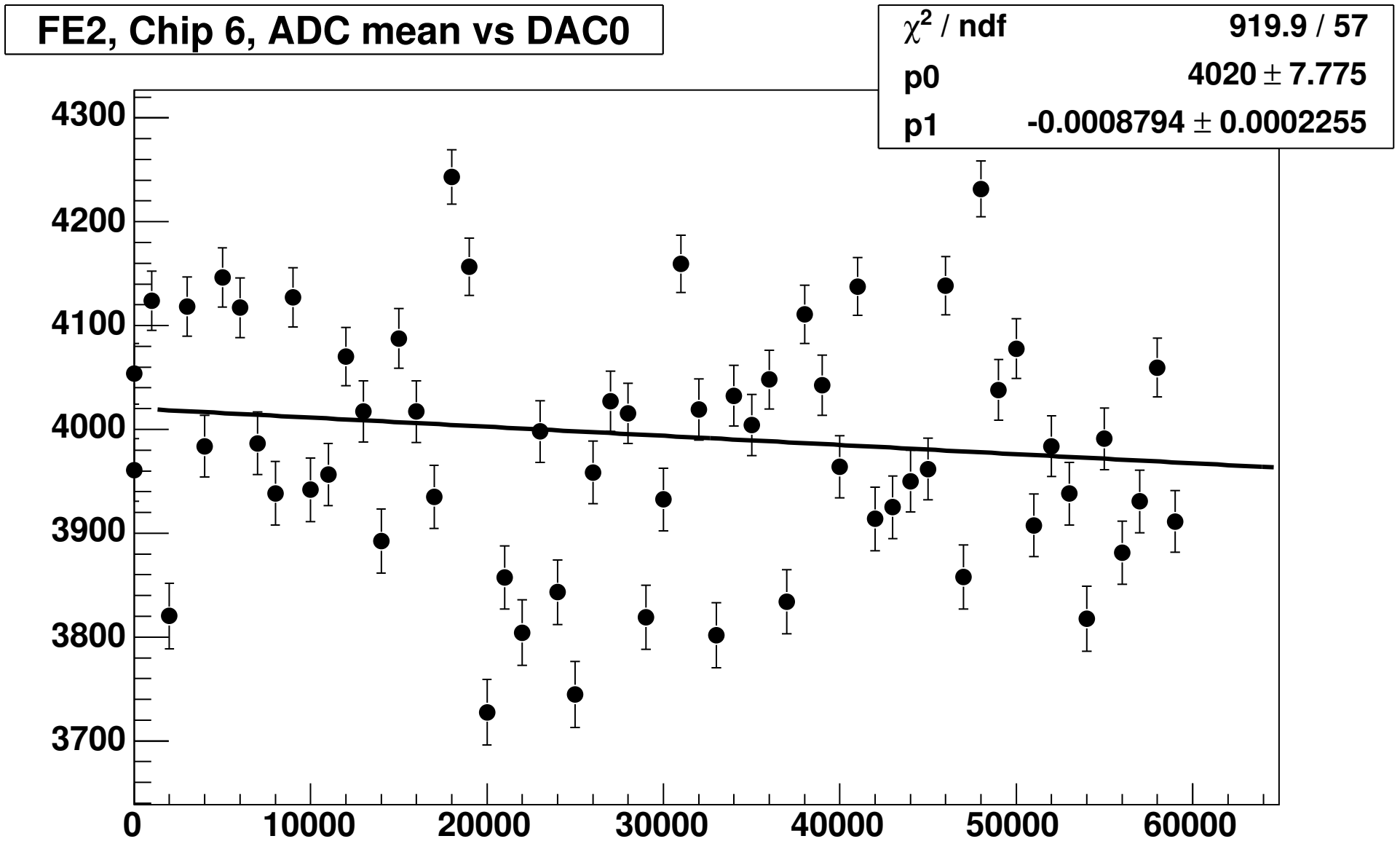
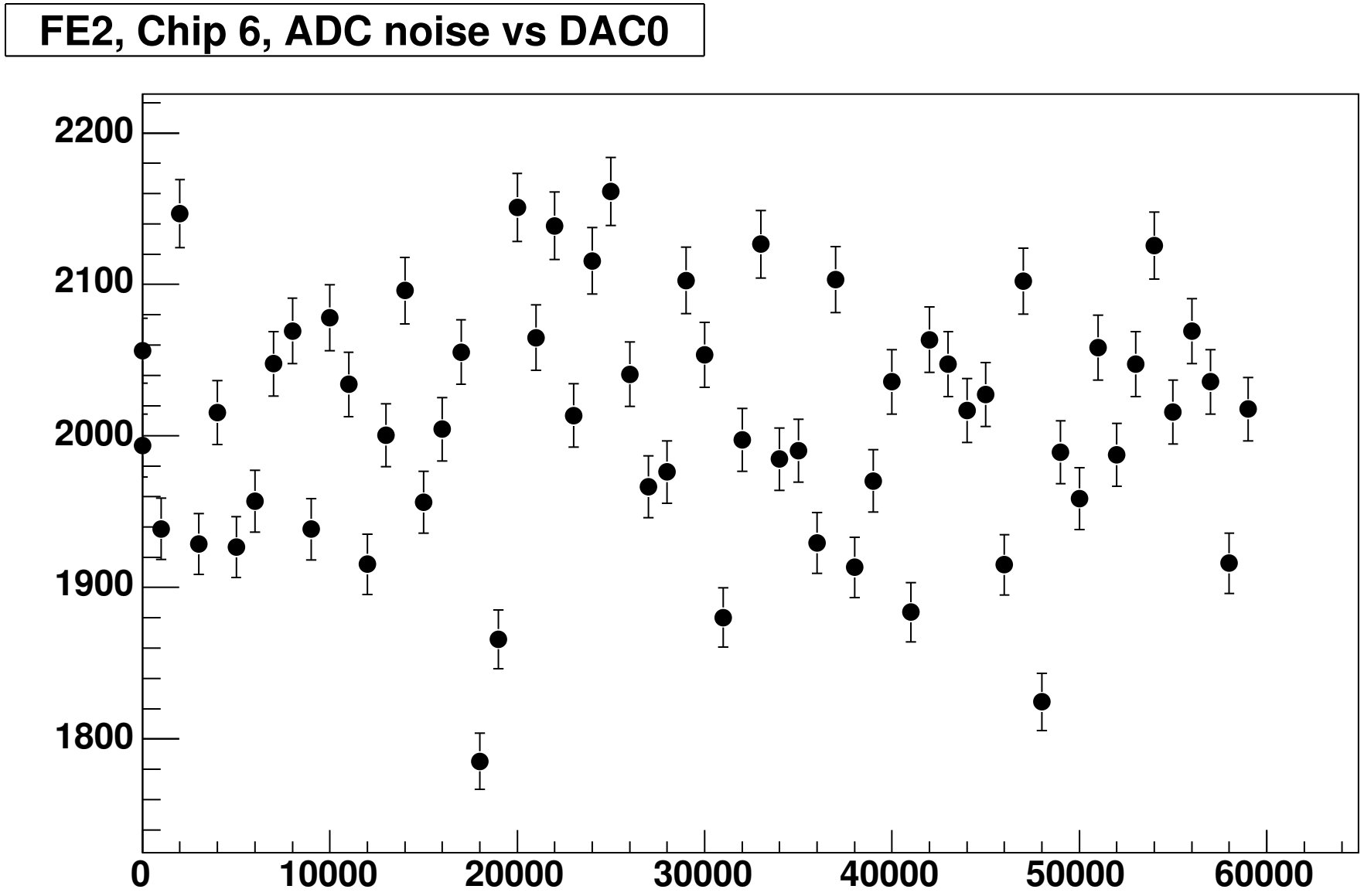
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

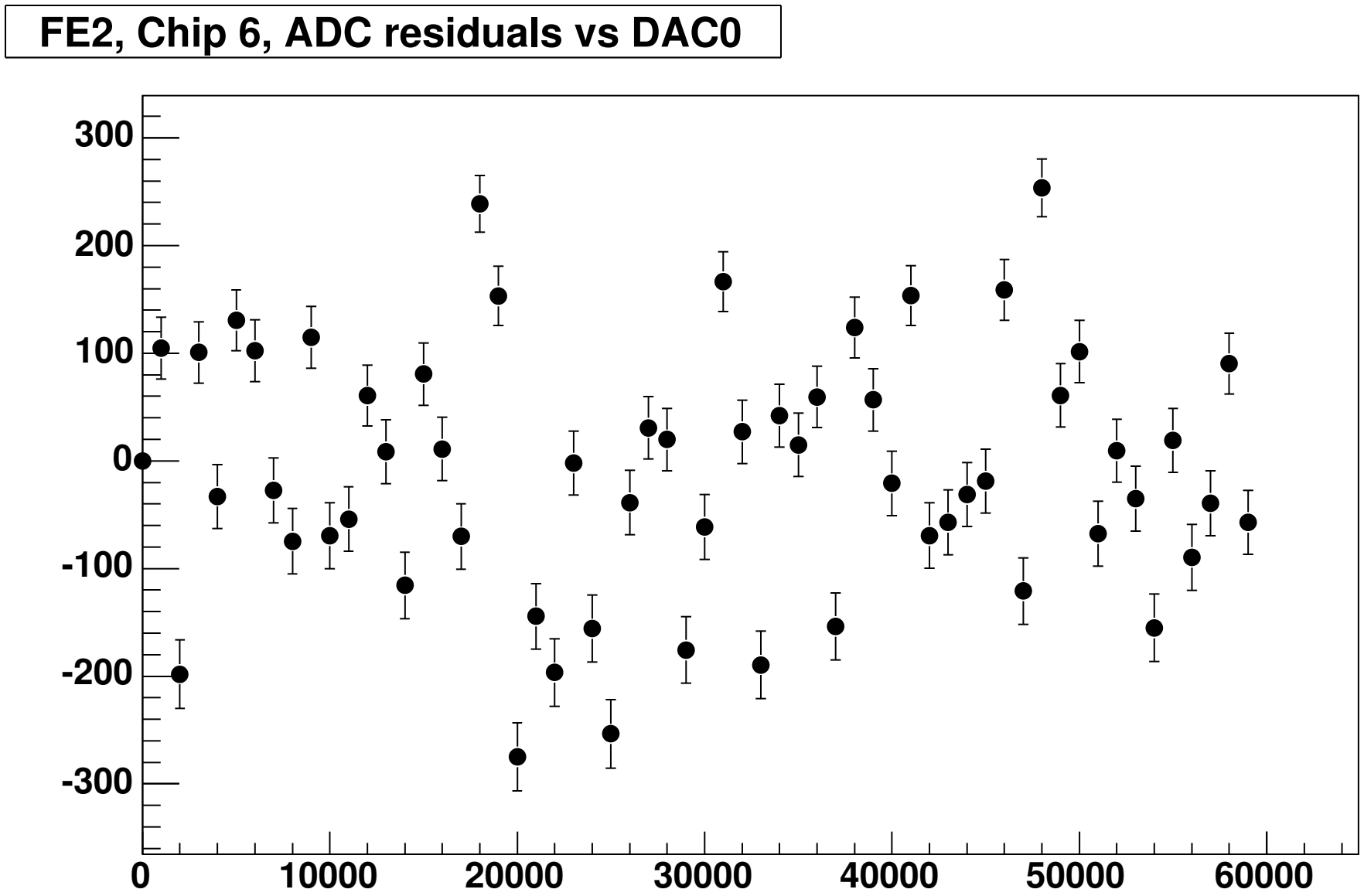

FE2, Chip 5, ADC mean vs DAC1
χ² / ndf 919.5 / 57
p0 3945 ± 7.782
p1 0.0004144 ± 0.0002241
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000

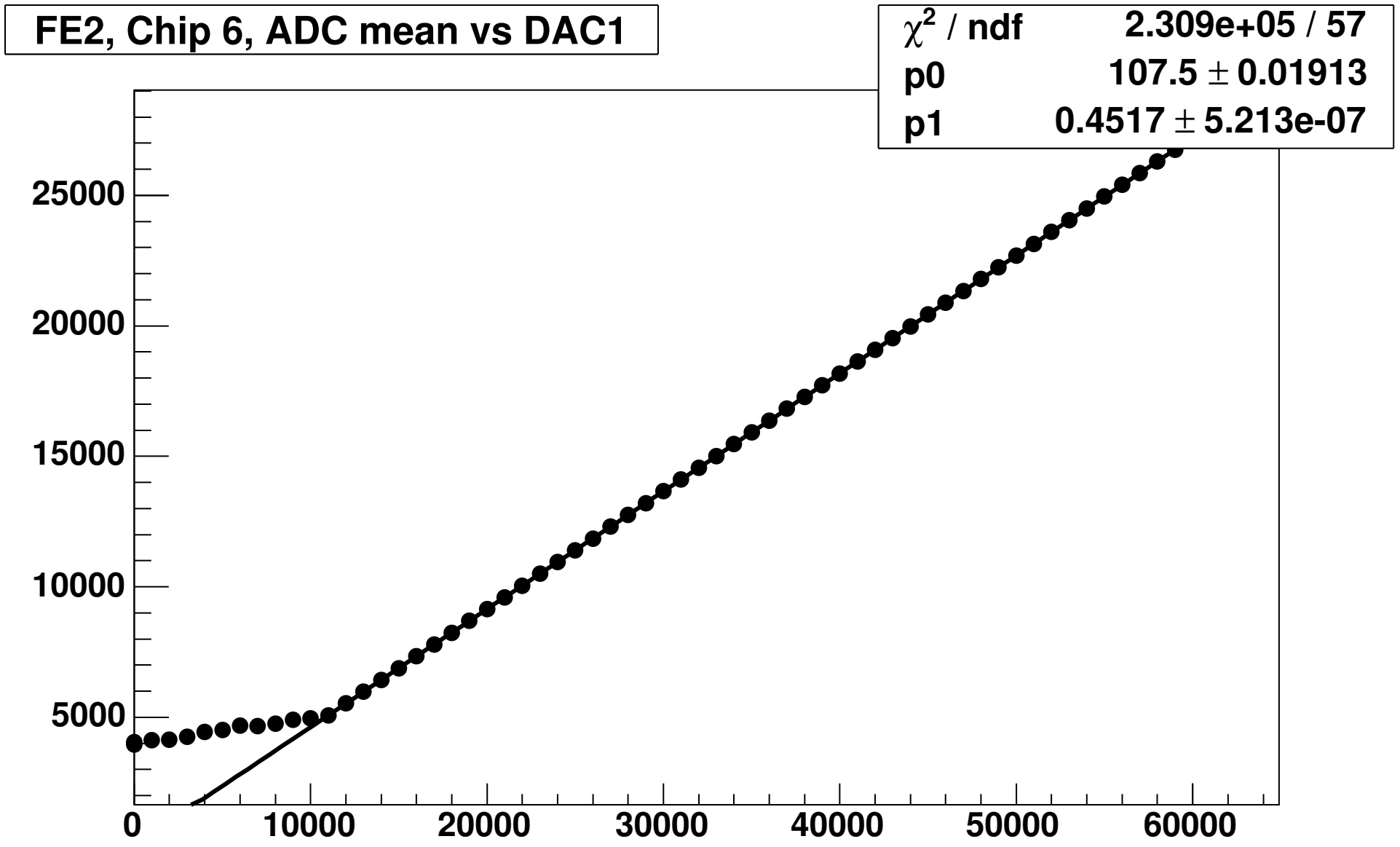

FE2, Chip 5, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000

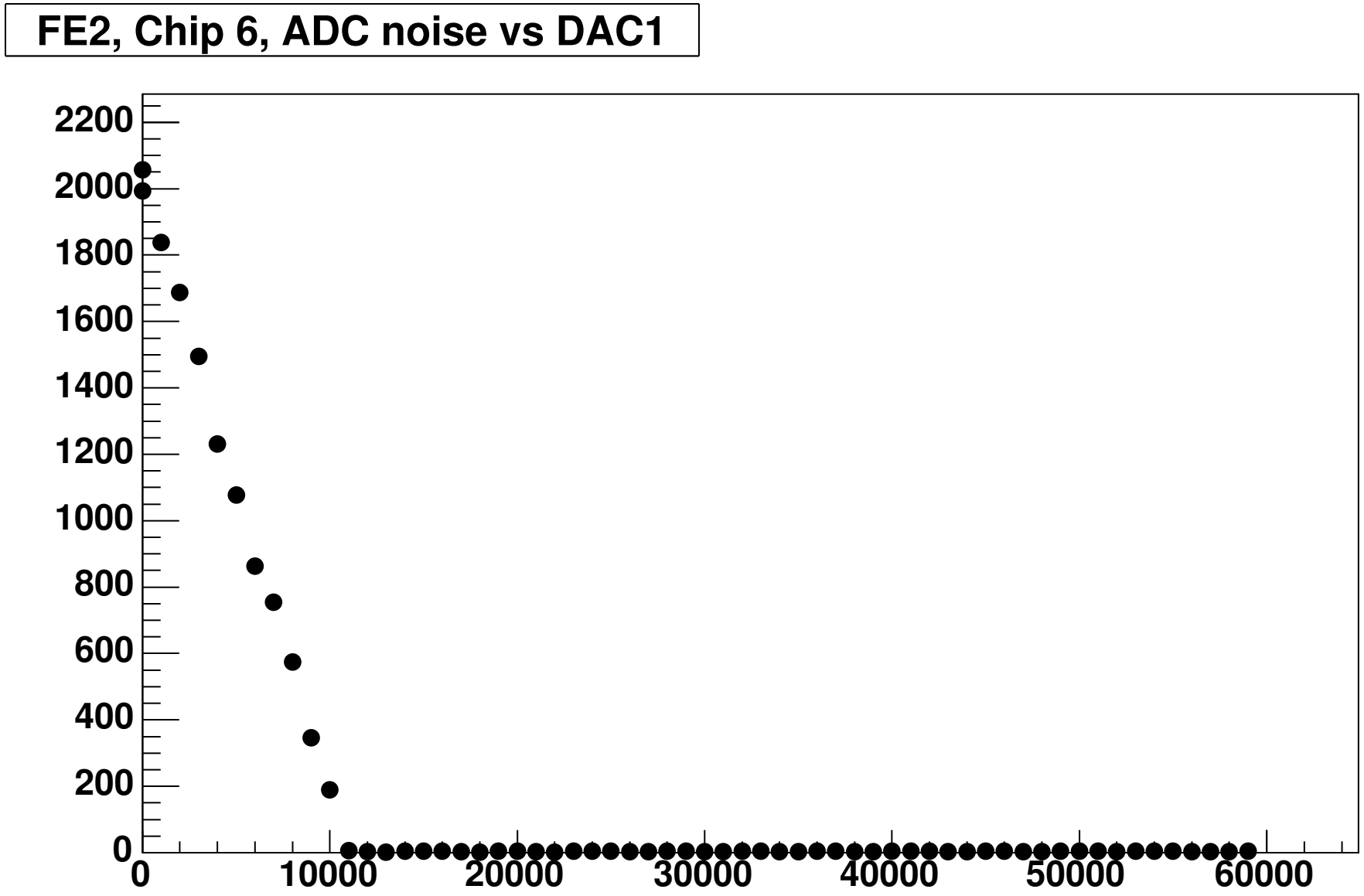

FE2, Chip 5, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

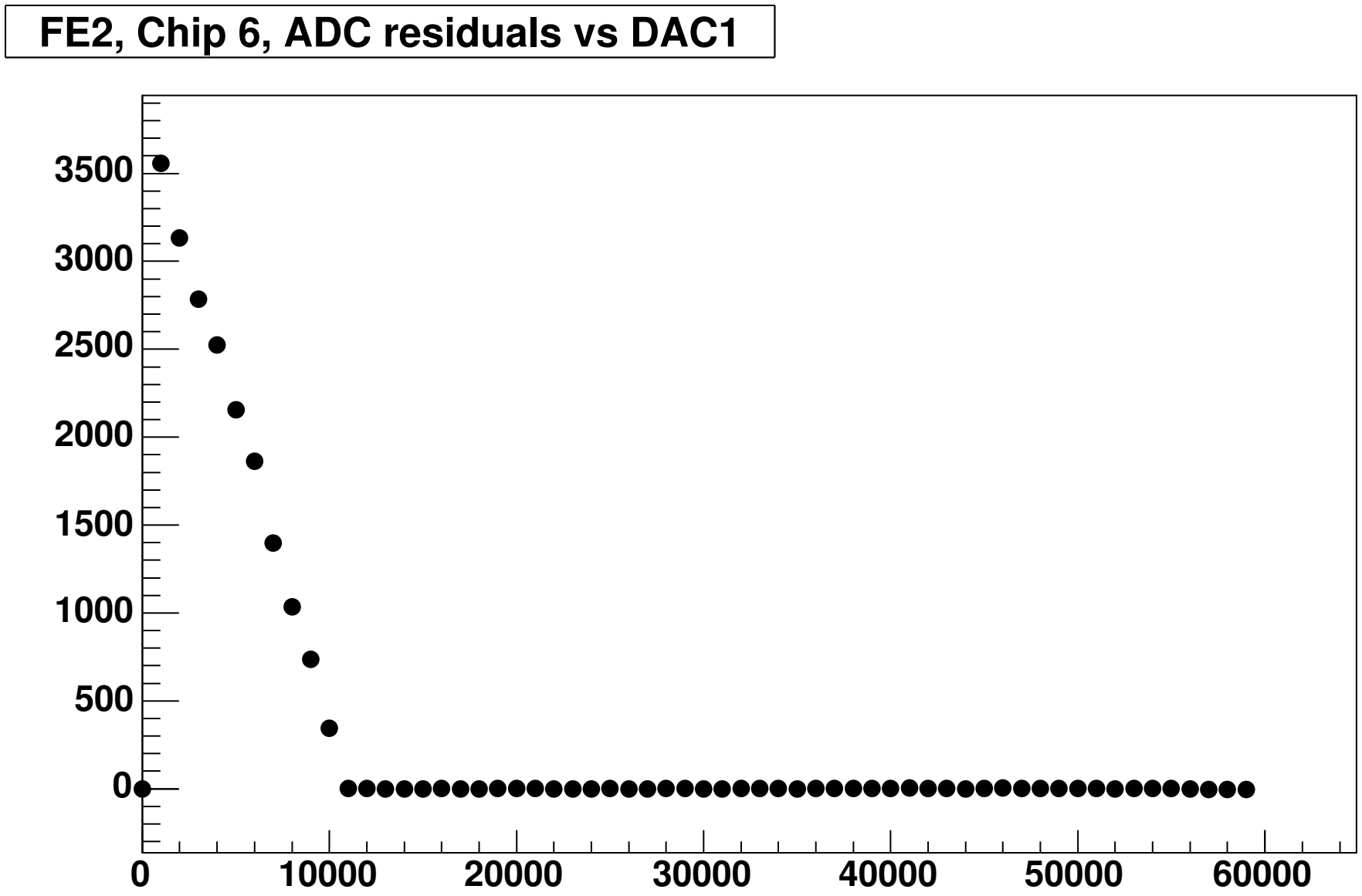

FE2, Chip 6, ADC mean vs DAC0
χ² / ndf 919.9 / 57
p0 4020 ± 7.775
p1 -0.0008794 ± 0.0002255
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000

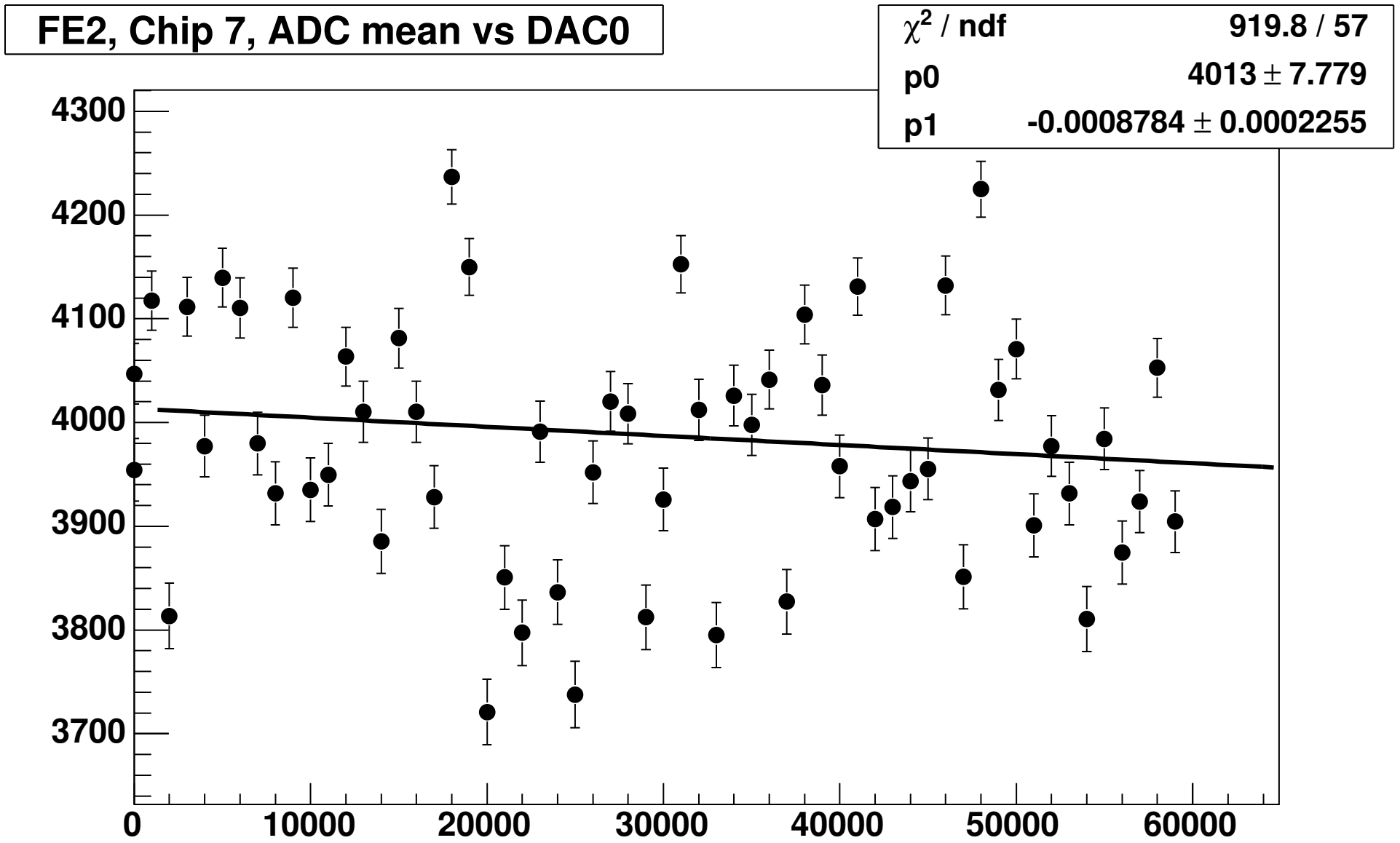

FE2, Chip 6, ADC noise vs DAC0
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000

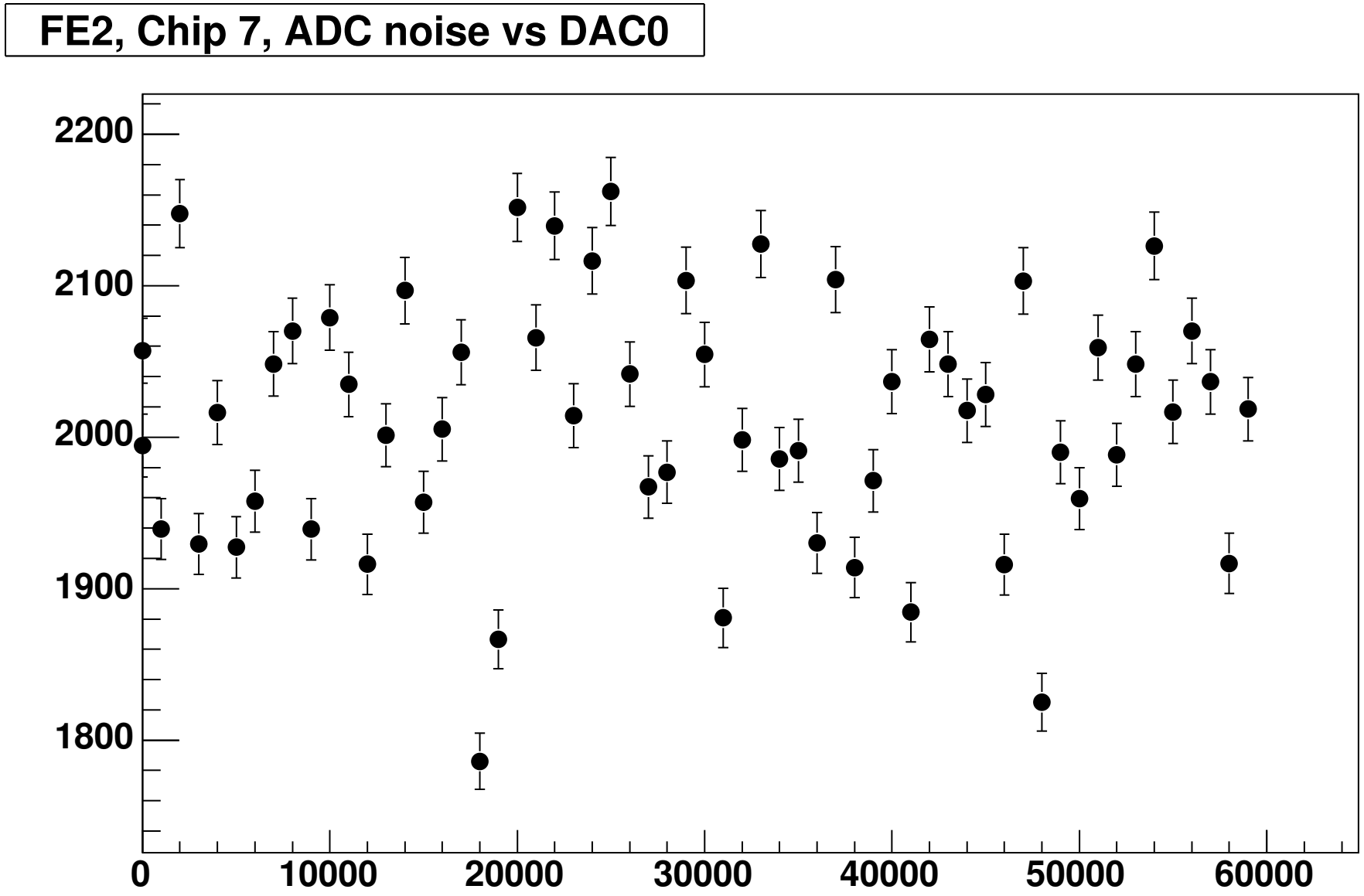

FE2, Chip 6, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE2, Chip 6, ADC mean vs DAC1
χ² / ndf 2.309e+05 / 57
p0 107.5 ± 0.01913
p1 0.4517 ± 5.213e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE2, Chip 6, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 6, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 7, ADC mean vs DAC0
χ² / ndf 919.8 / 57
p0 4013 ± 7.779
p1 -0.0008784 ± 0.0002255
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE2, Chip 7, ADC noise vs DAC0
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2100
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1900
1800
0
10000
20000
30000
40000
50000
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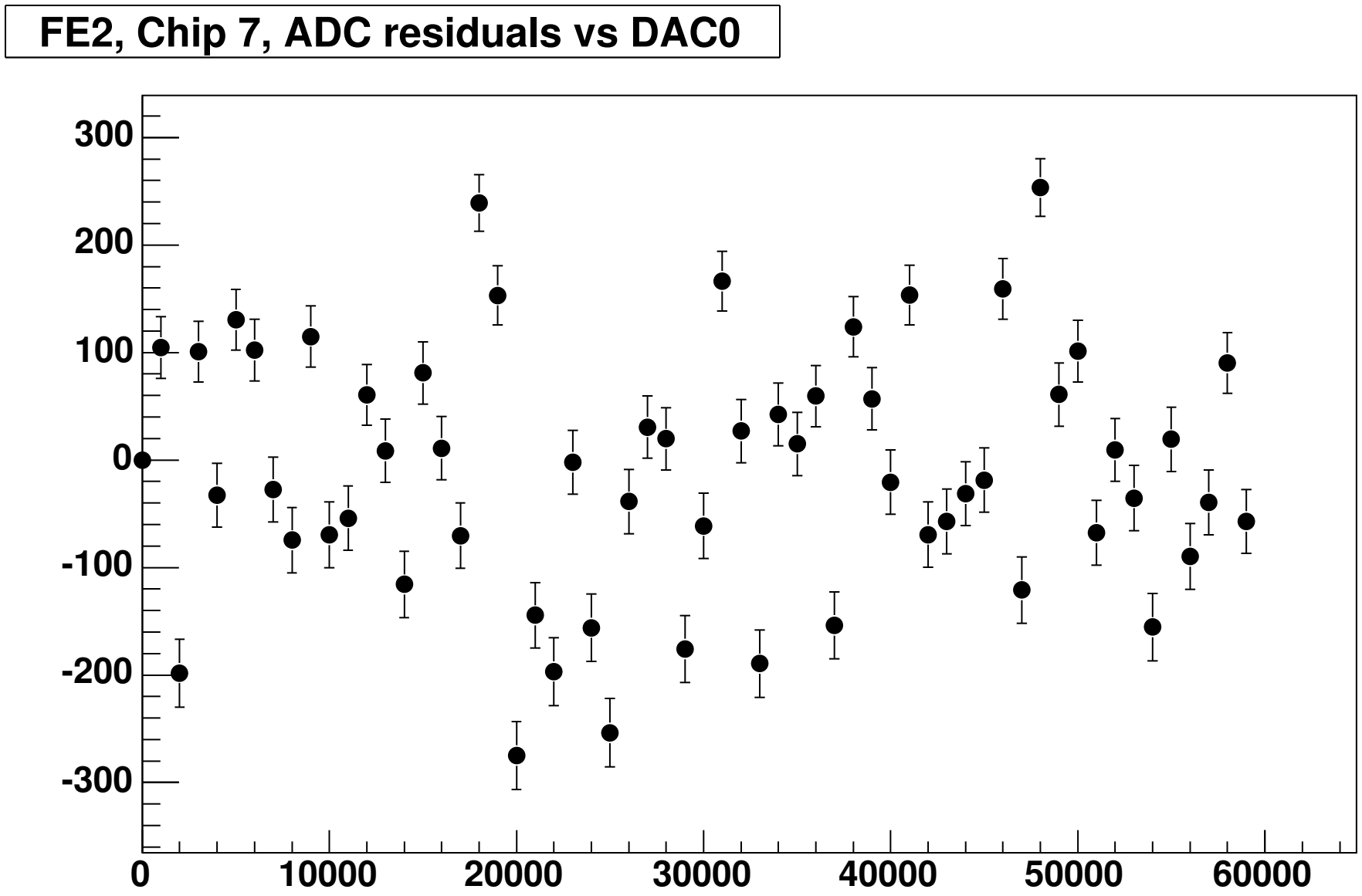
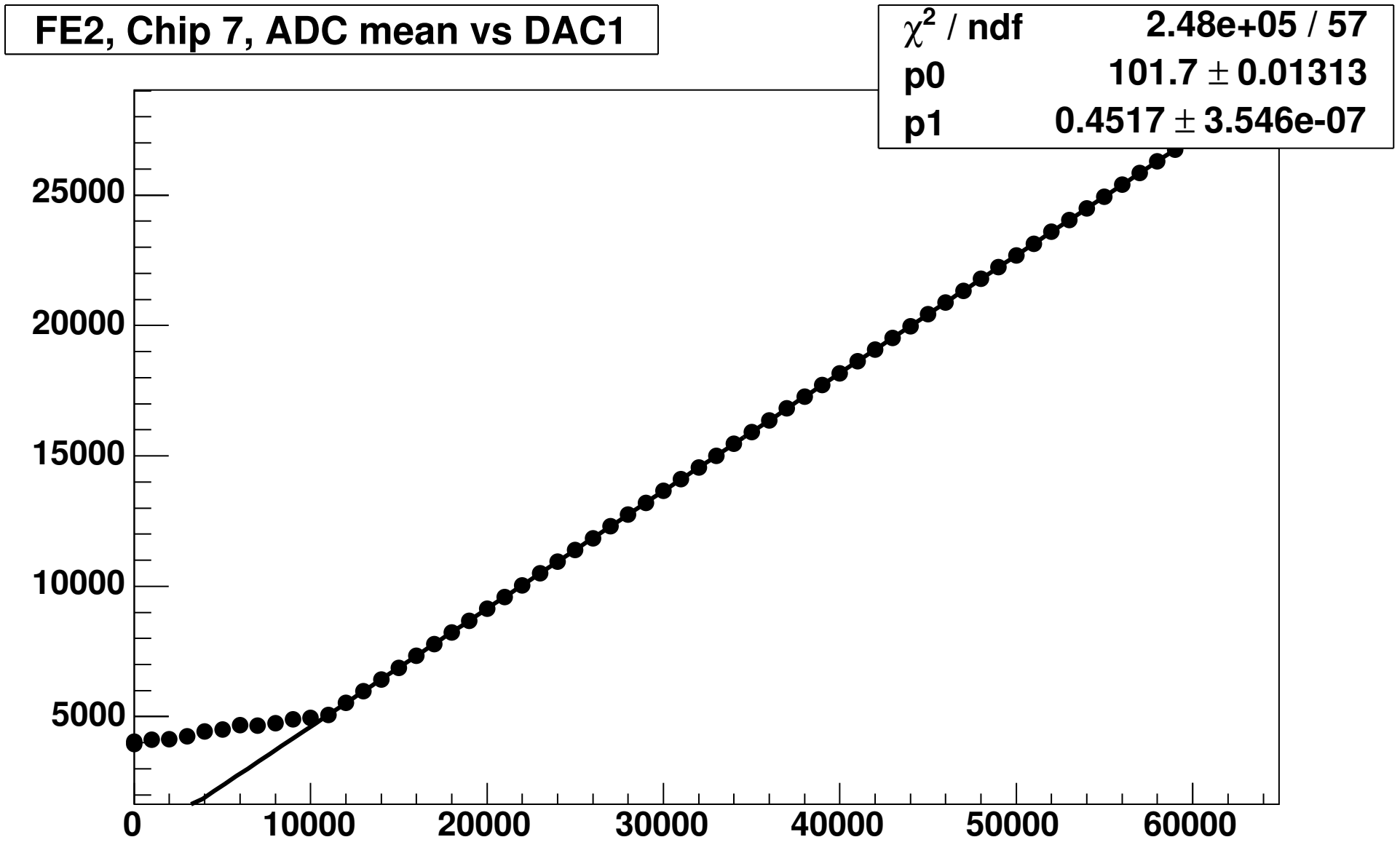
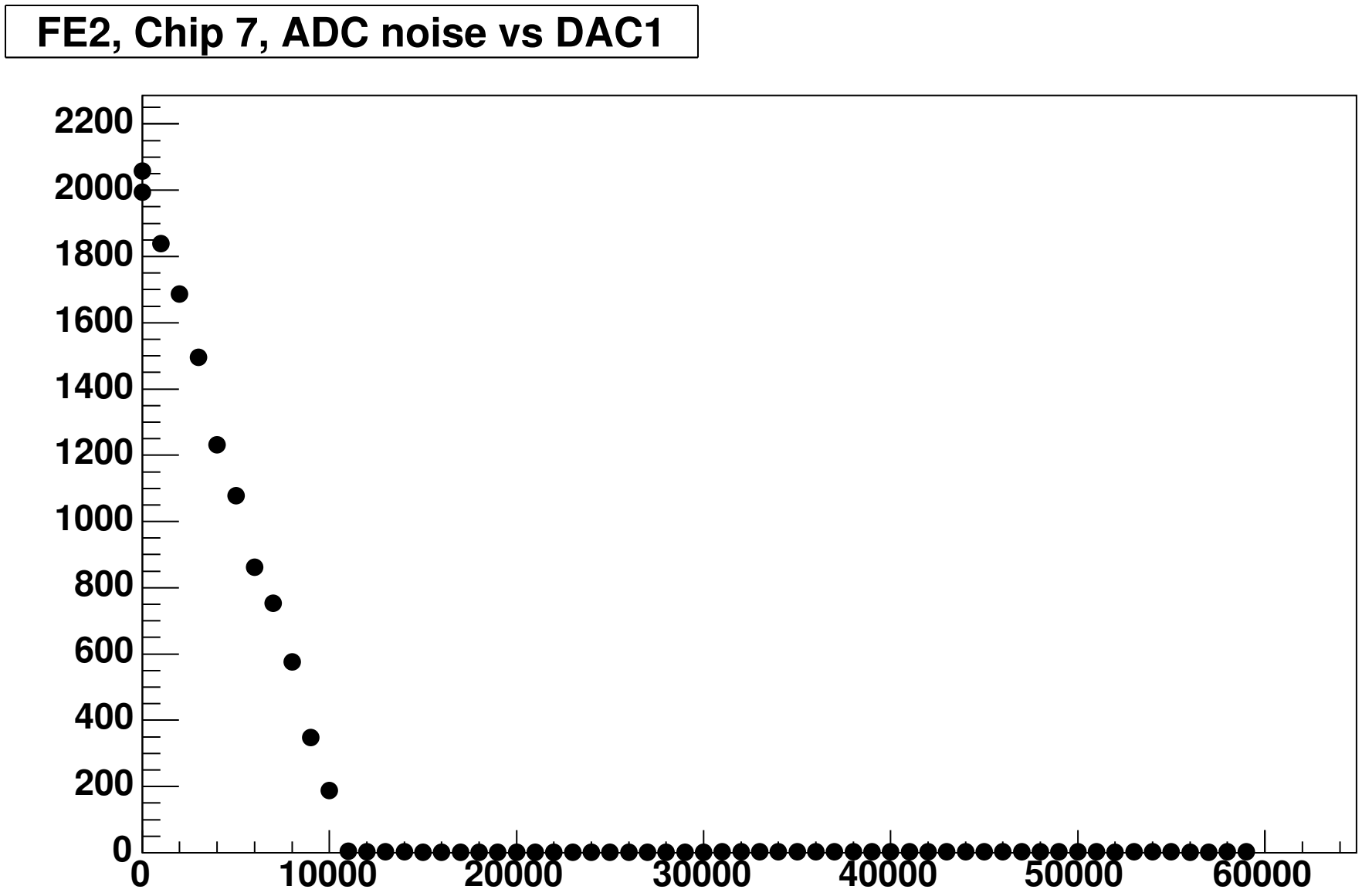

FE2, Chip 7, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE2, Chip 7, ADC mean vs DAC1
χ² / ndf 2.48e+05 / 57
p0 101.7 ± 0.01313
p1 0.4517 ± 3.546e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE2, Chip 7, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
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0
10000
20000
30000
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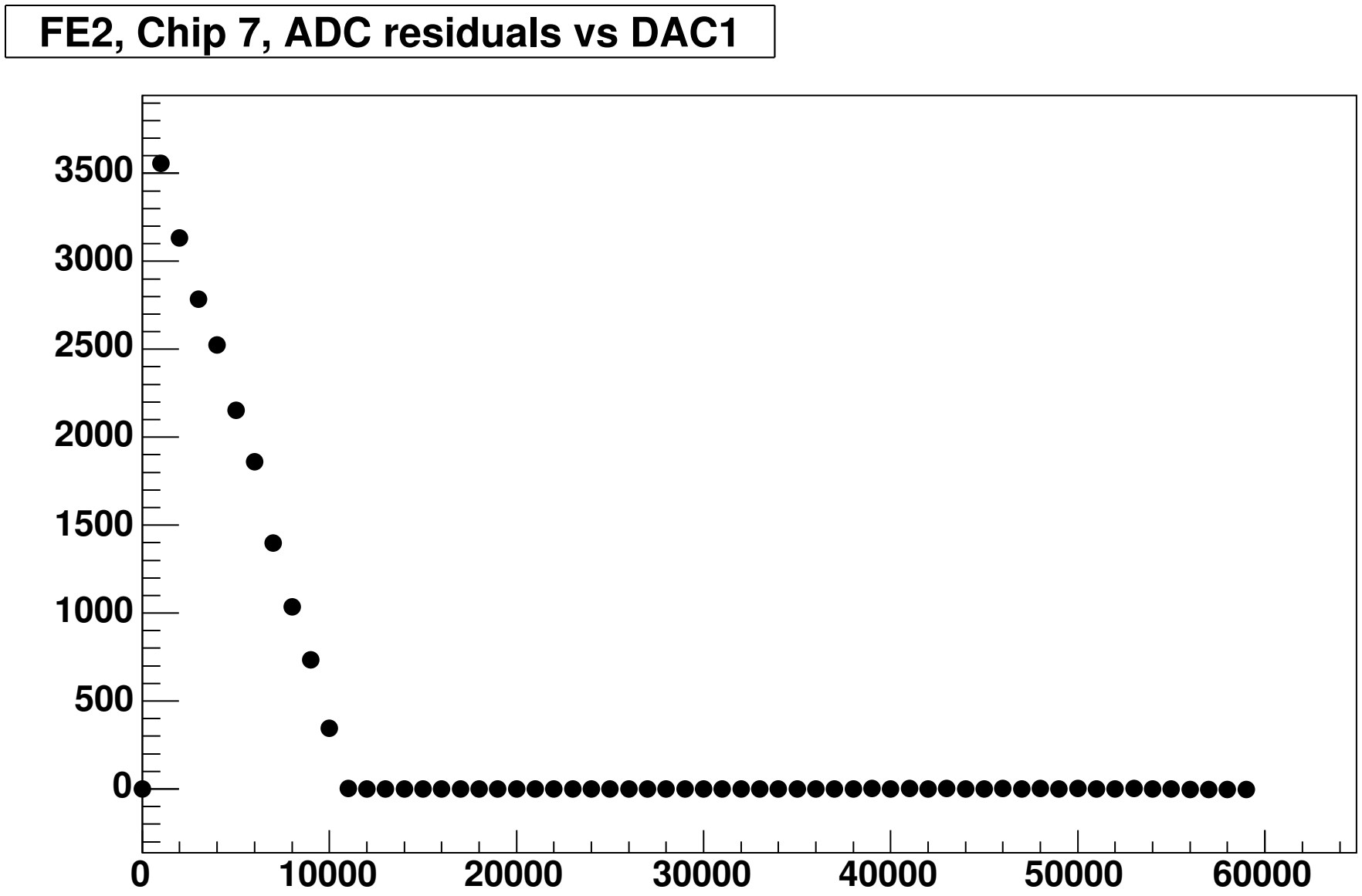
60000


FE2, Chip 7, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
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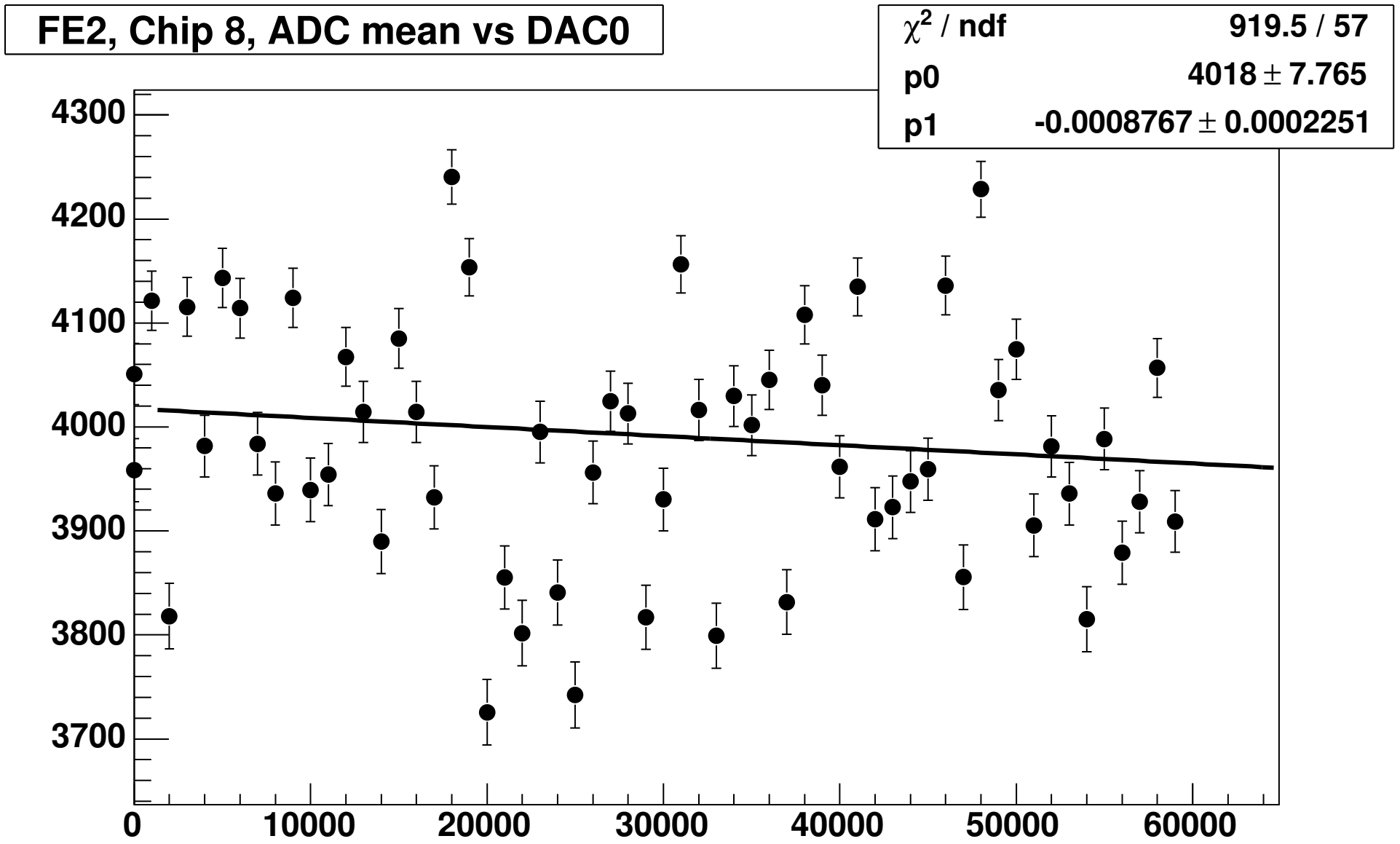
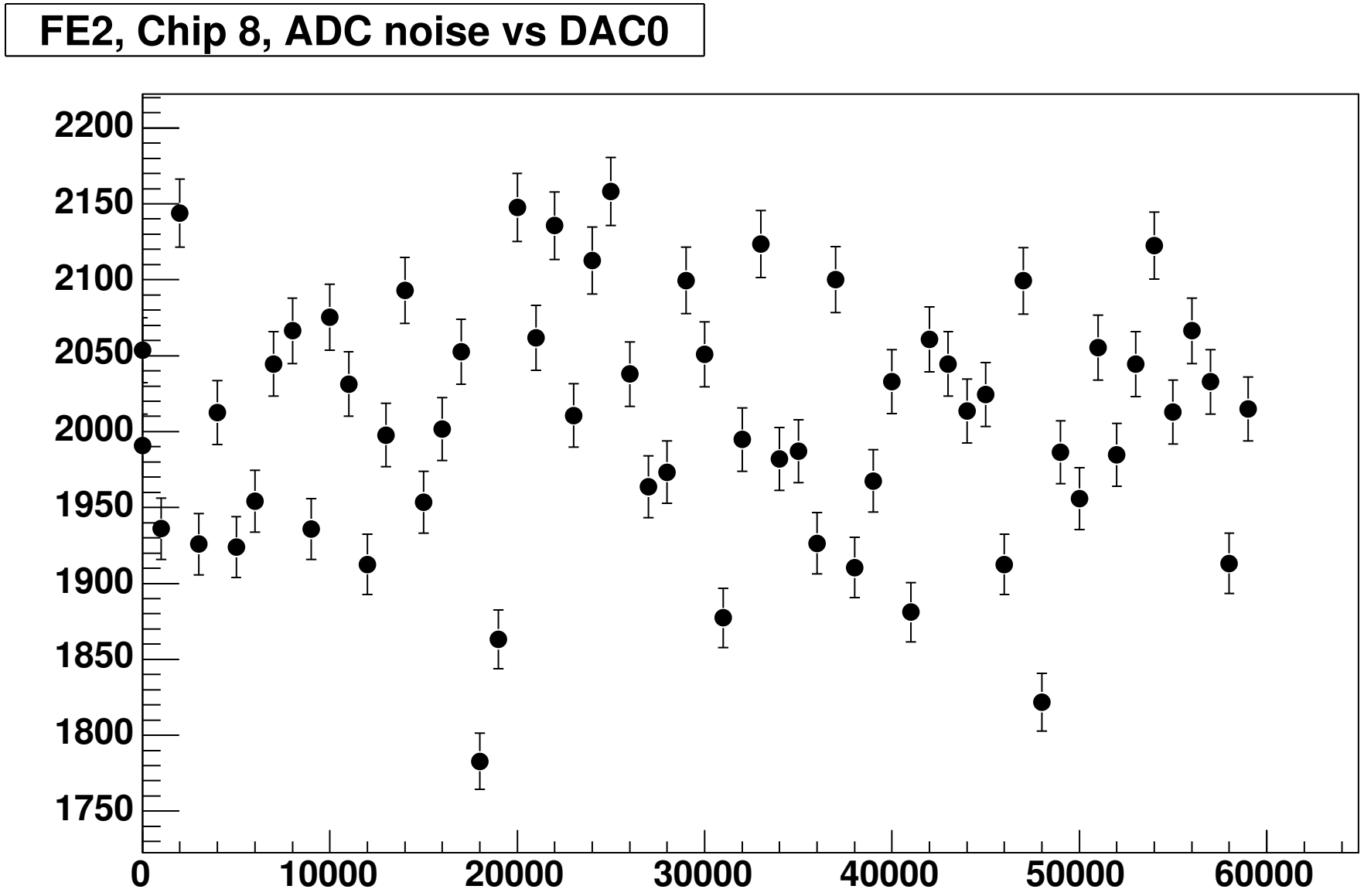
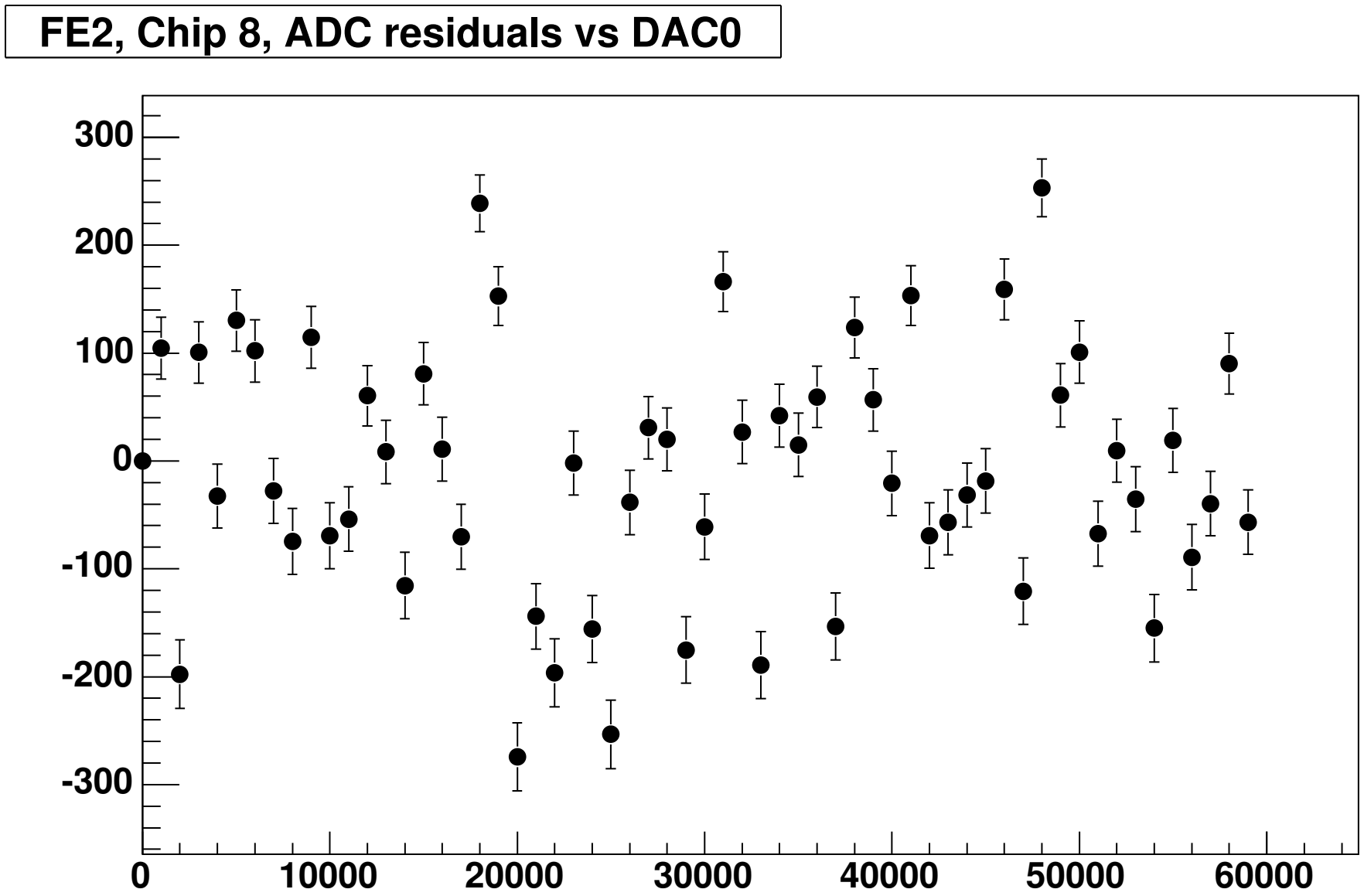
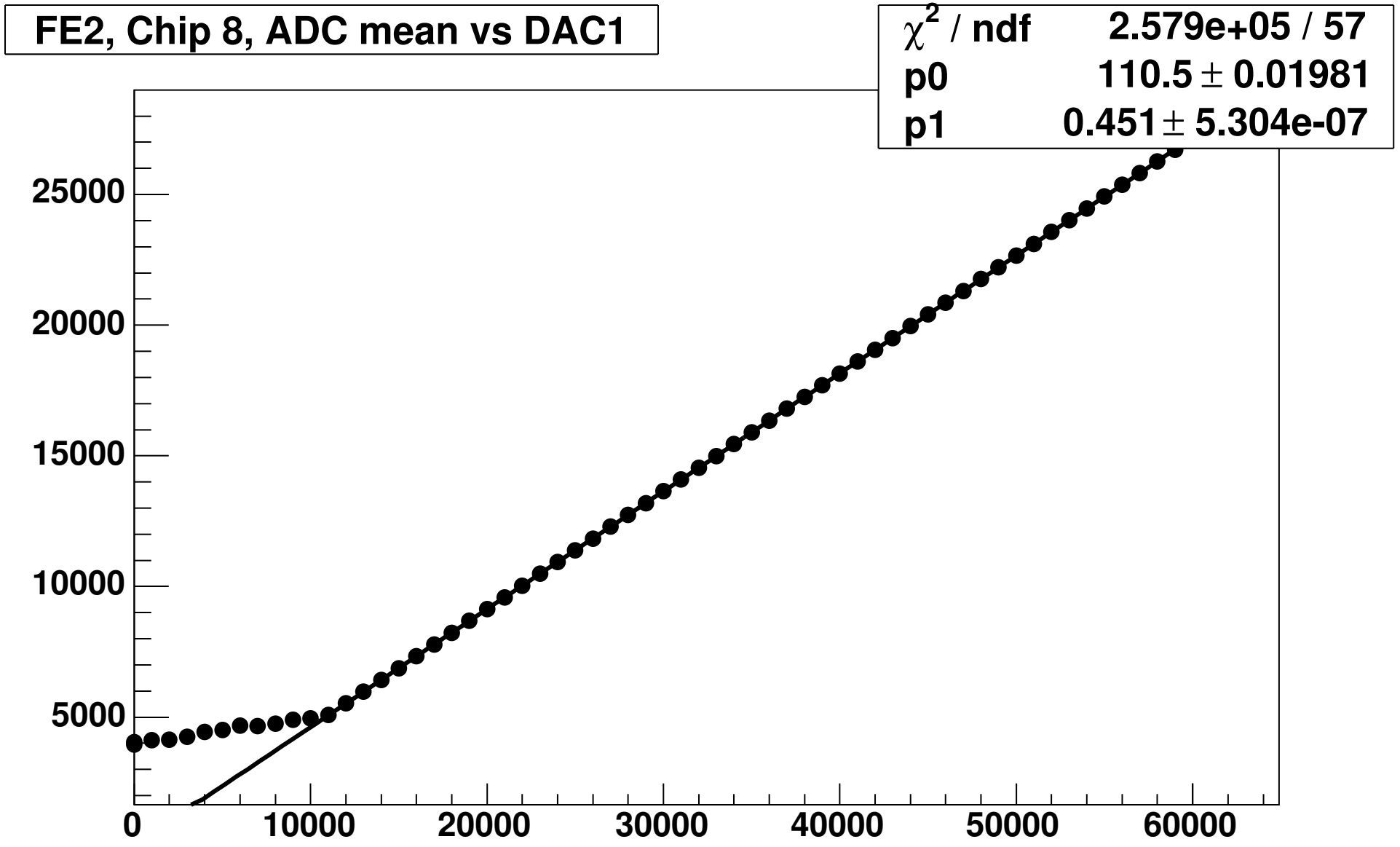
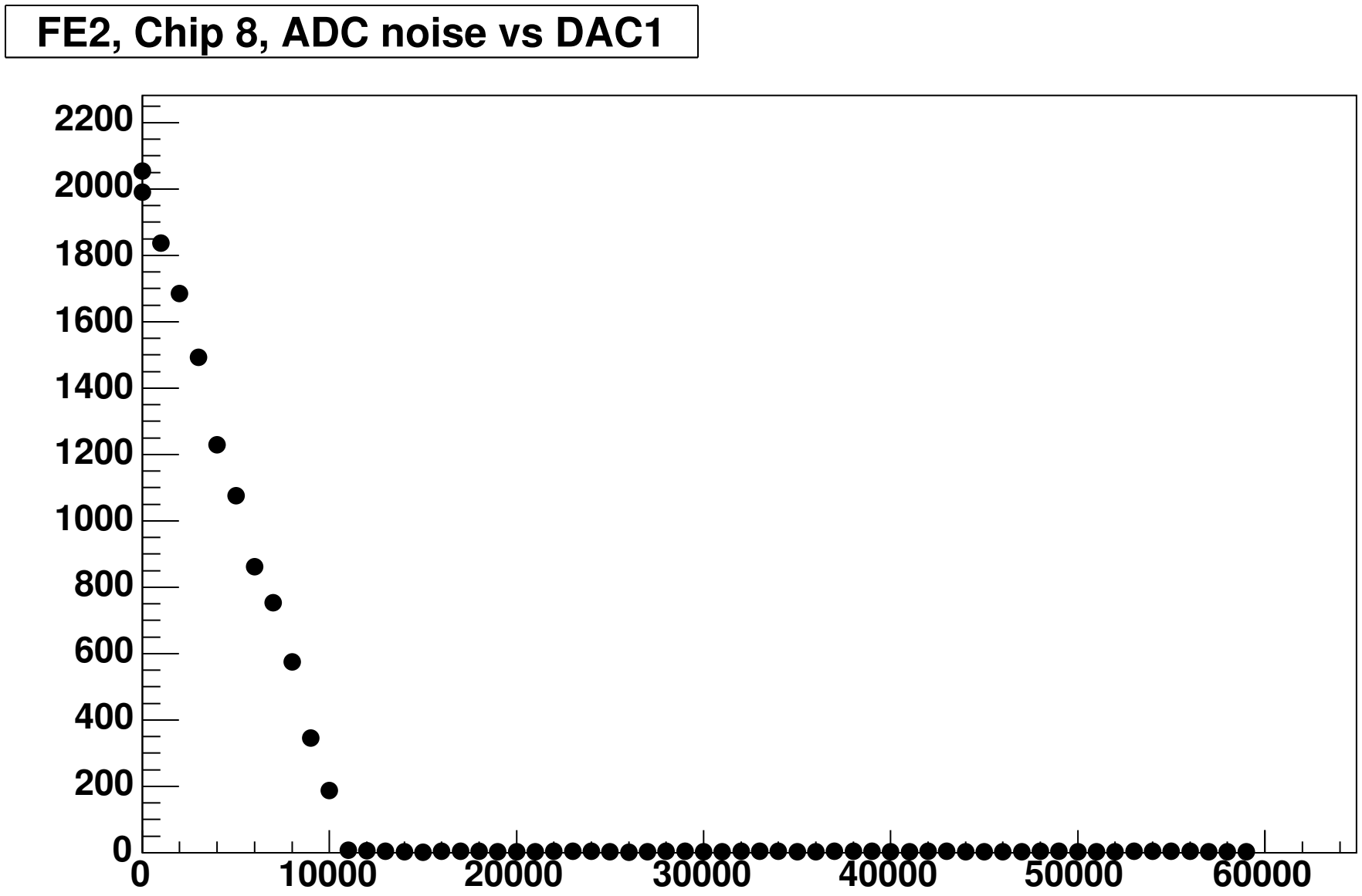
0
10000
20000
30000
40000
50000
60000

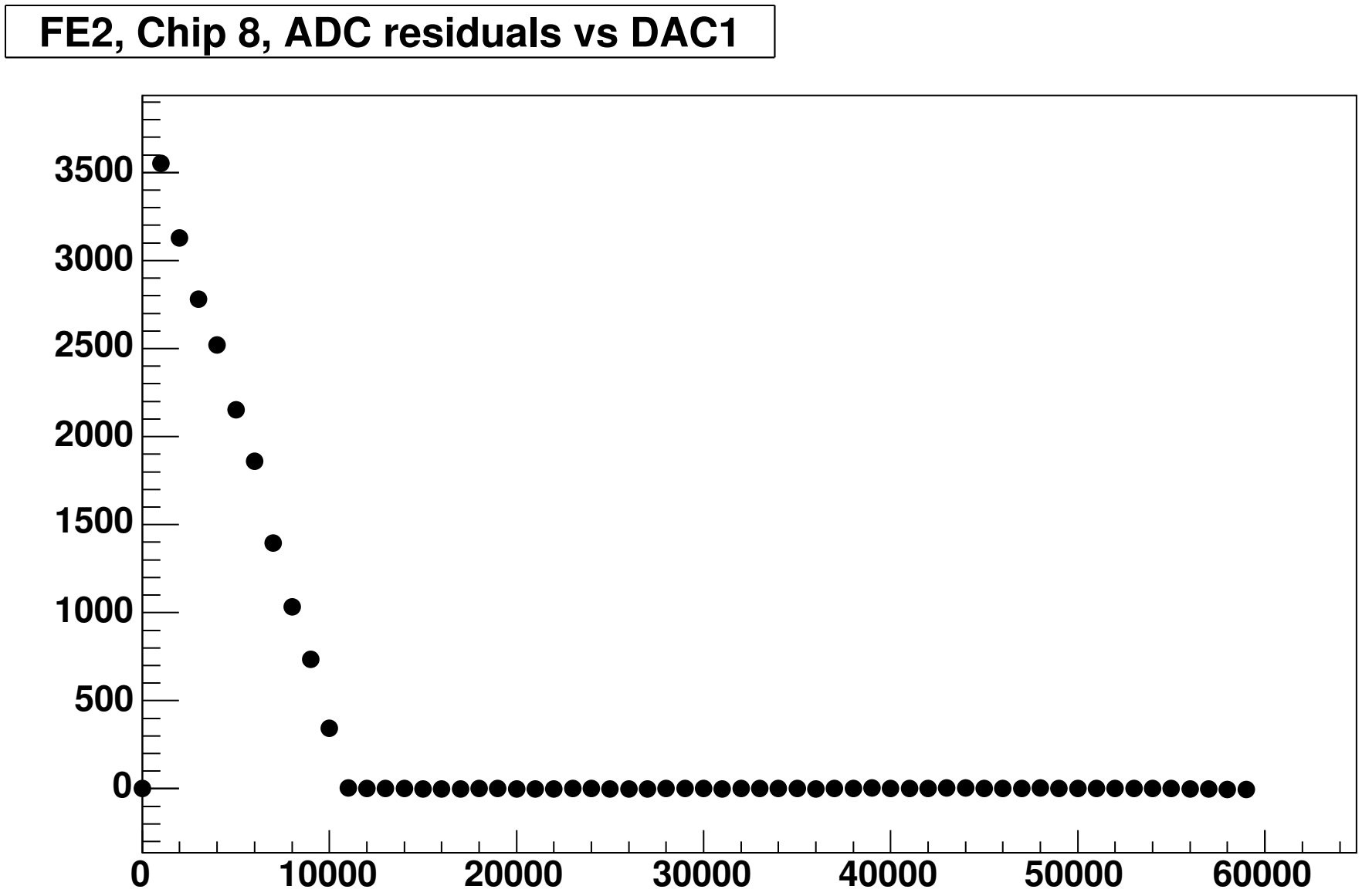

FE2, Chip 8, ADC mean vs DAC0
χ² / ndf 919.5 / 57
p0 4018 ± 7.765
p1 -0.0008767 ± 0.0002251
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000

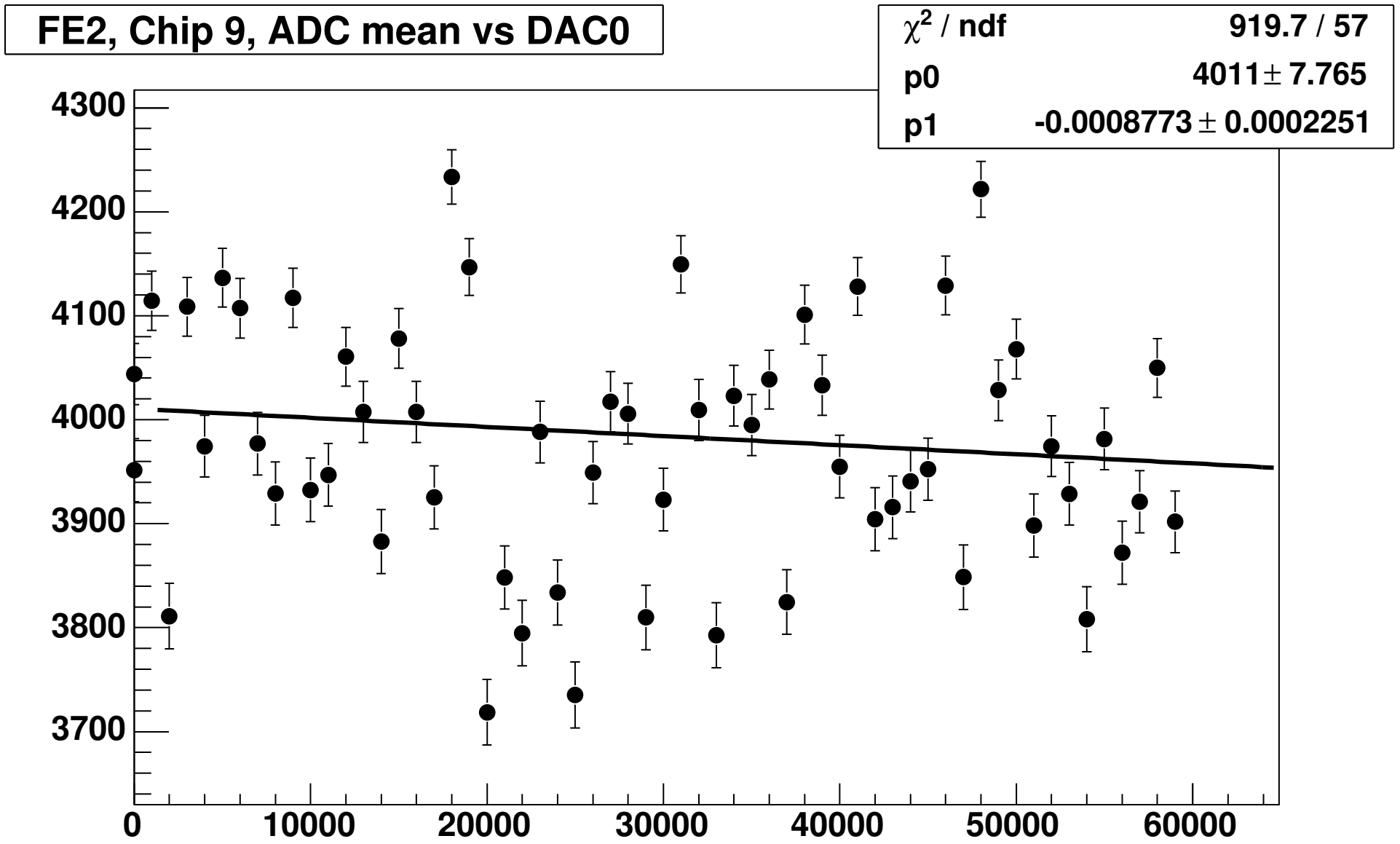

FE2, Chip 8, ADC noise vs DAC0
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
60000

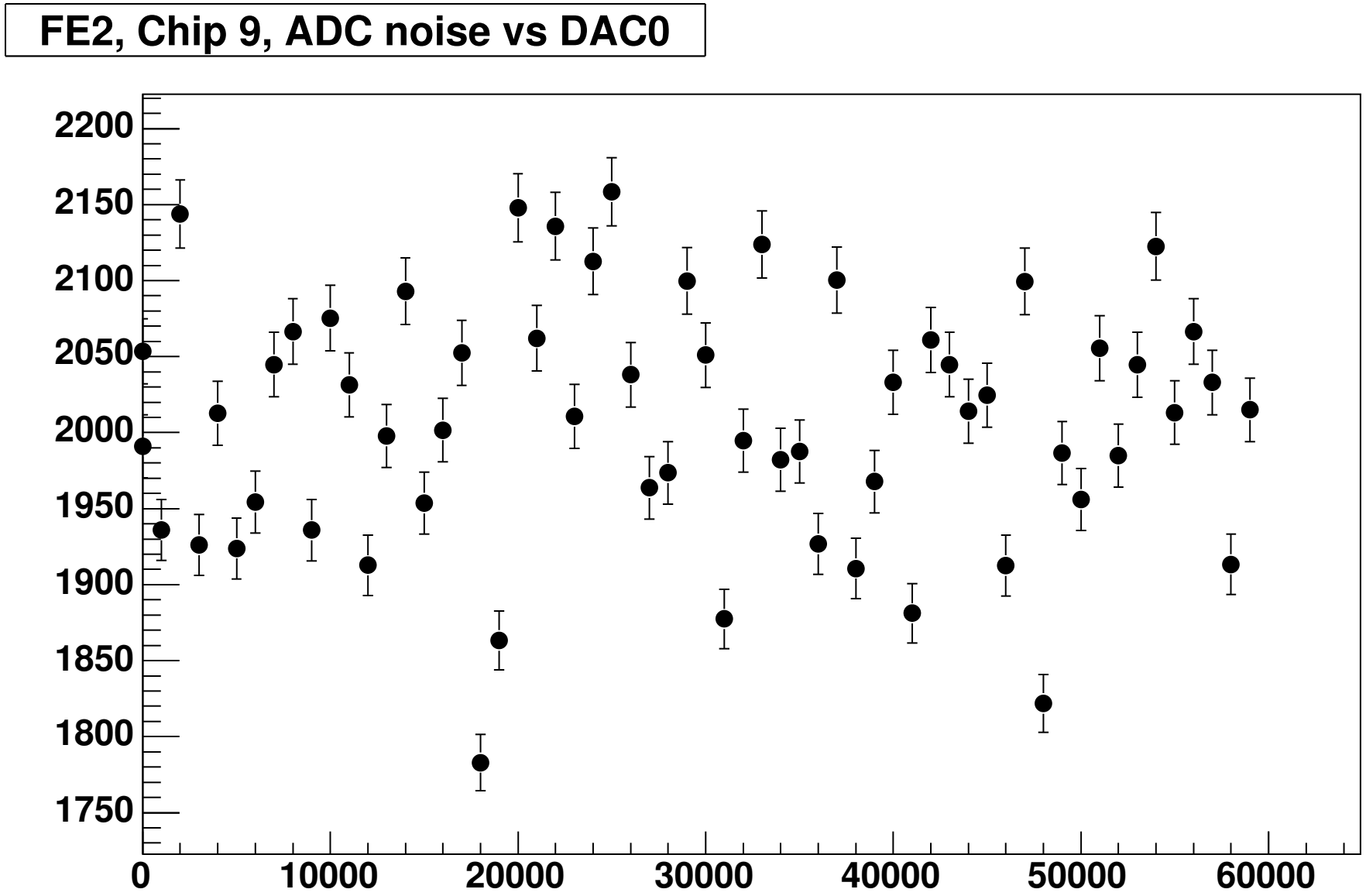

FE2, Chip 8, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

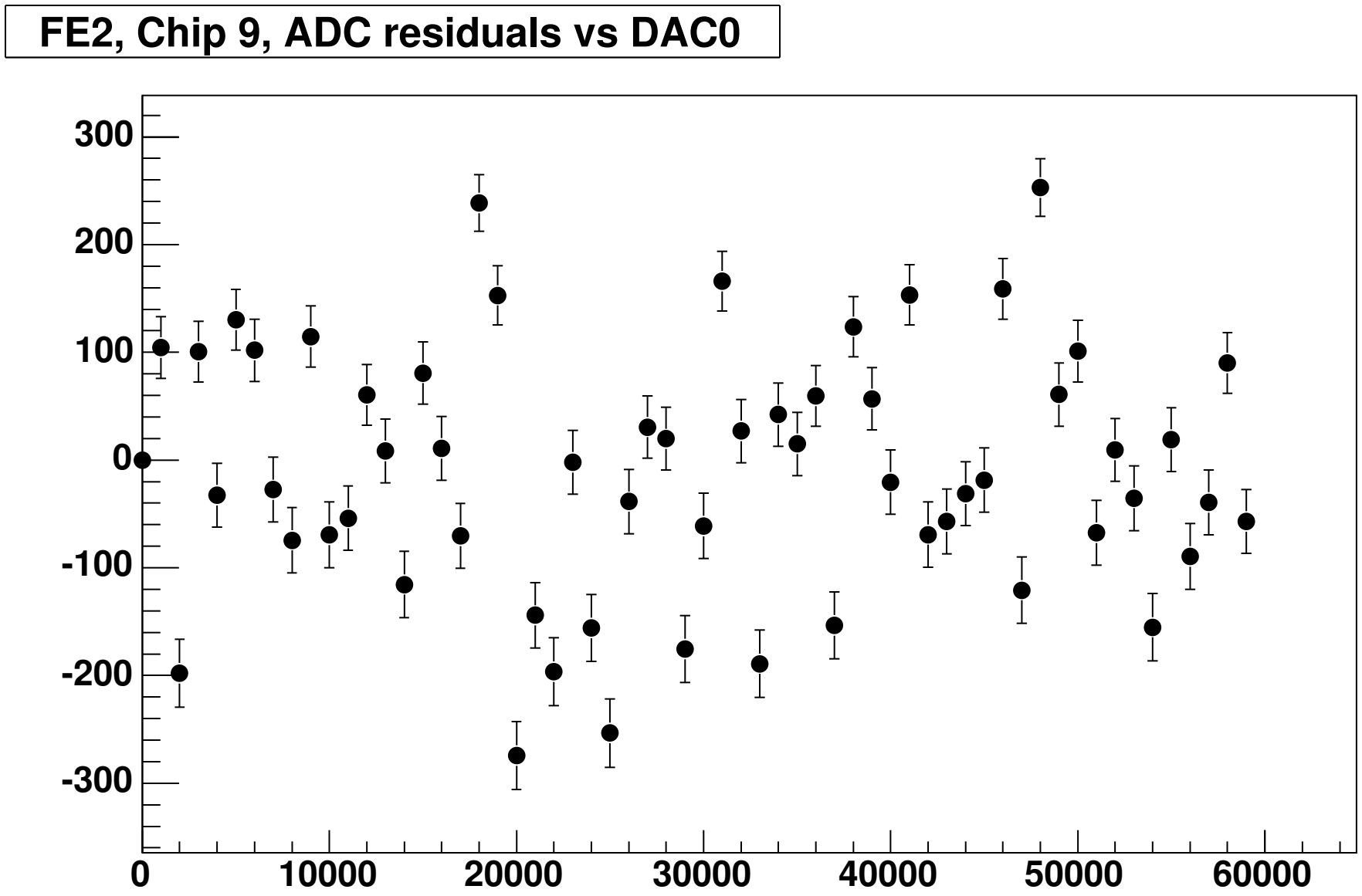

FE2, Chip 8, ADC mean vs DAC1
χ² / ndf 2.579e+05 / 57
p0 110.5 ± 0.01981
p1 0.451 ± 5.304e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

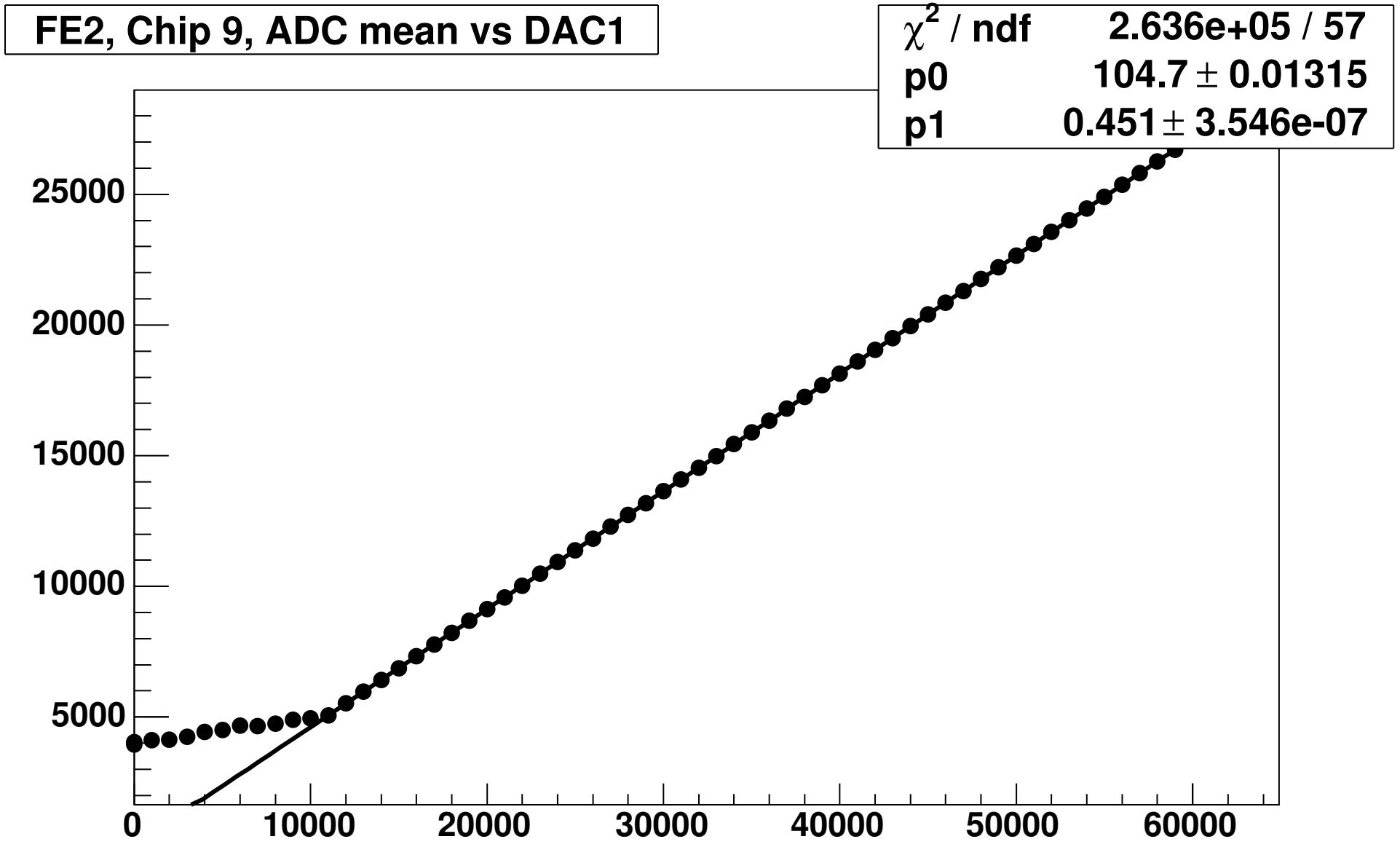

FE2, Chip 8, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

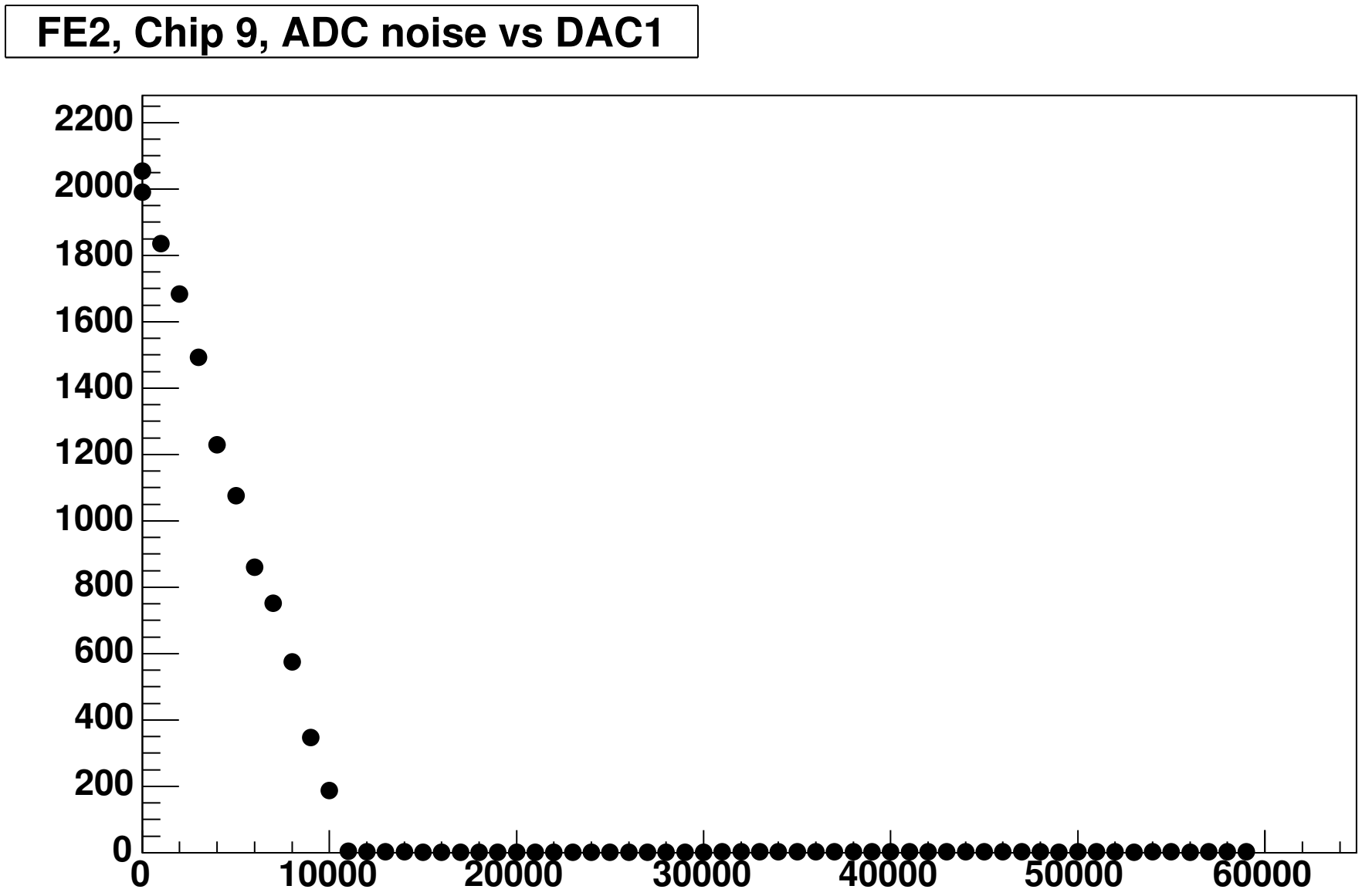

FE2, Chip 8, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

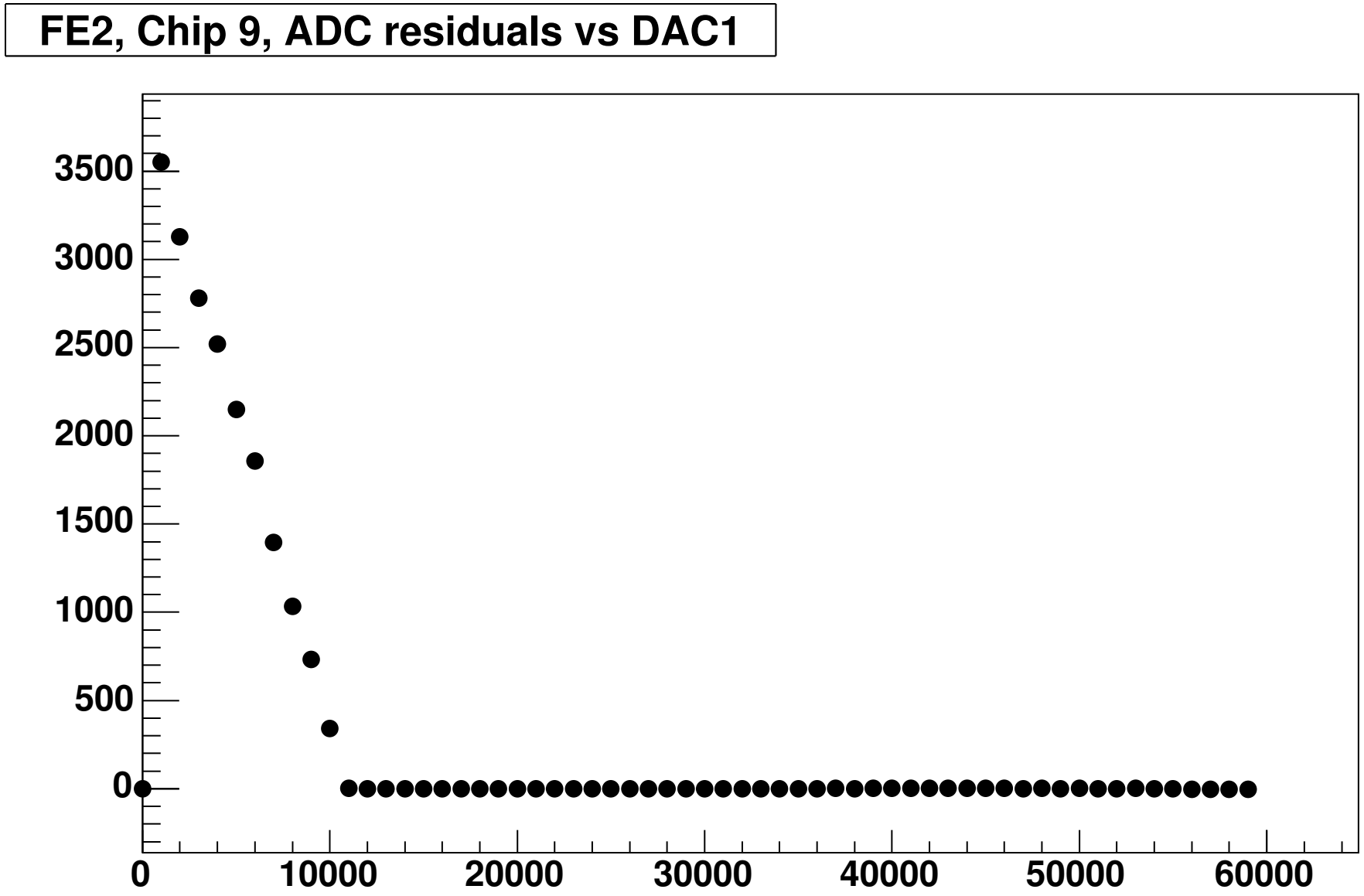

FE2, Chip 9, ADC mean vs DAC0
χ² / ndf 919.7 / 57
p0 4011 ± 7.765
p1 -0.0008773 ± 0.0002251
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE2, Chip 9, ADC noise vs DAC0
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
60000


FE2, Chip 9, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE2, Chip 9, ADC mean vs DAC1
χ² / ndf 2.636e+05 / 57
p0 104.7 ± 0.01315
p1 0.451 ± 3.546e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE2, Chip 9, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 9, ADC residuals vs DAC1
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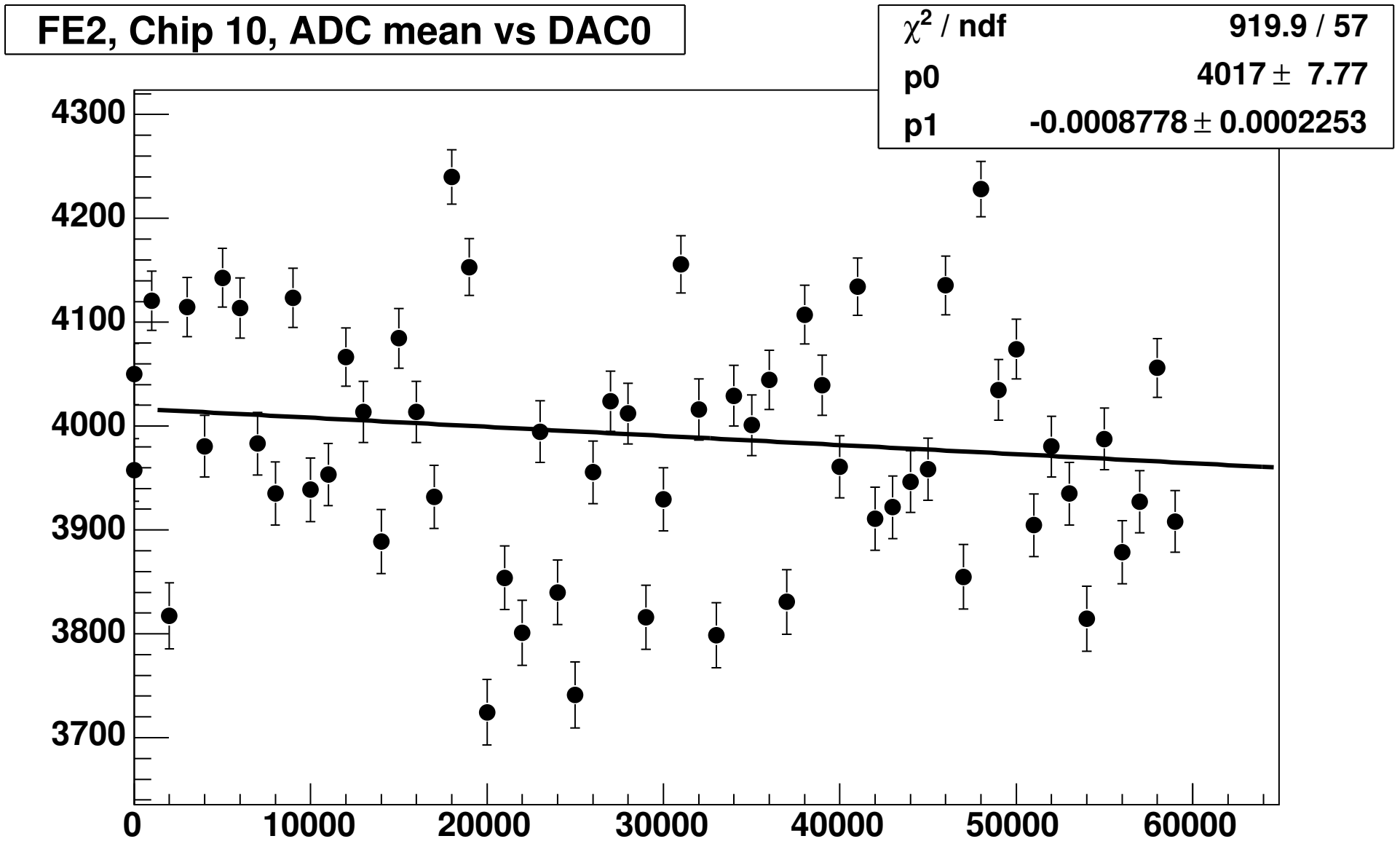
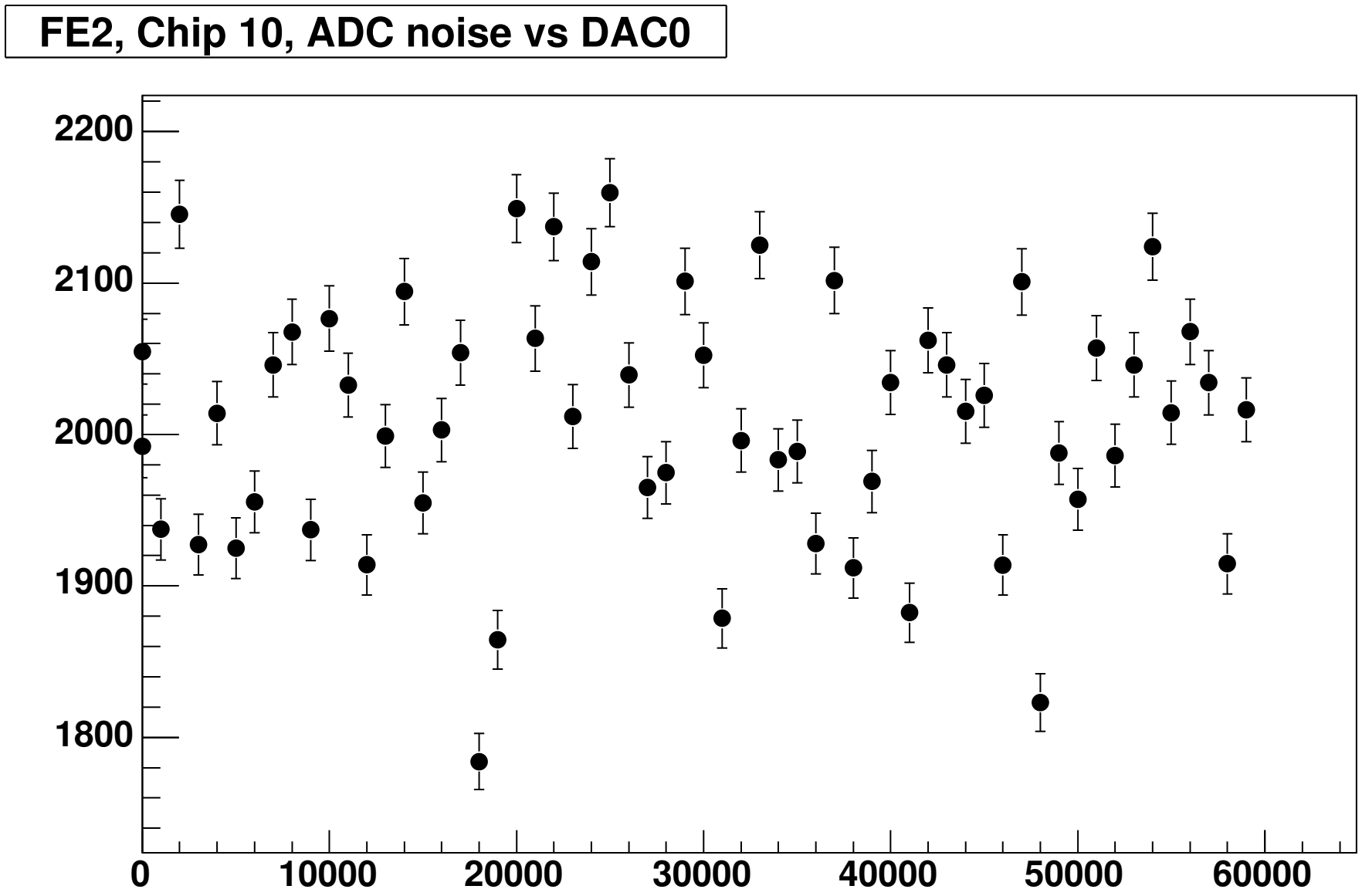
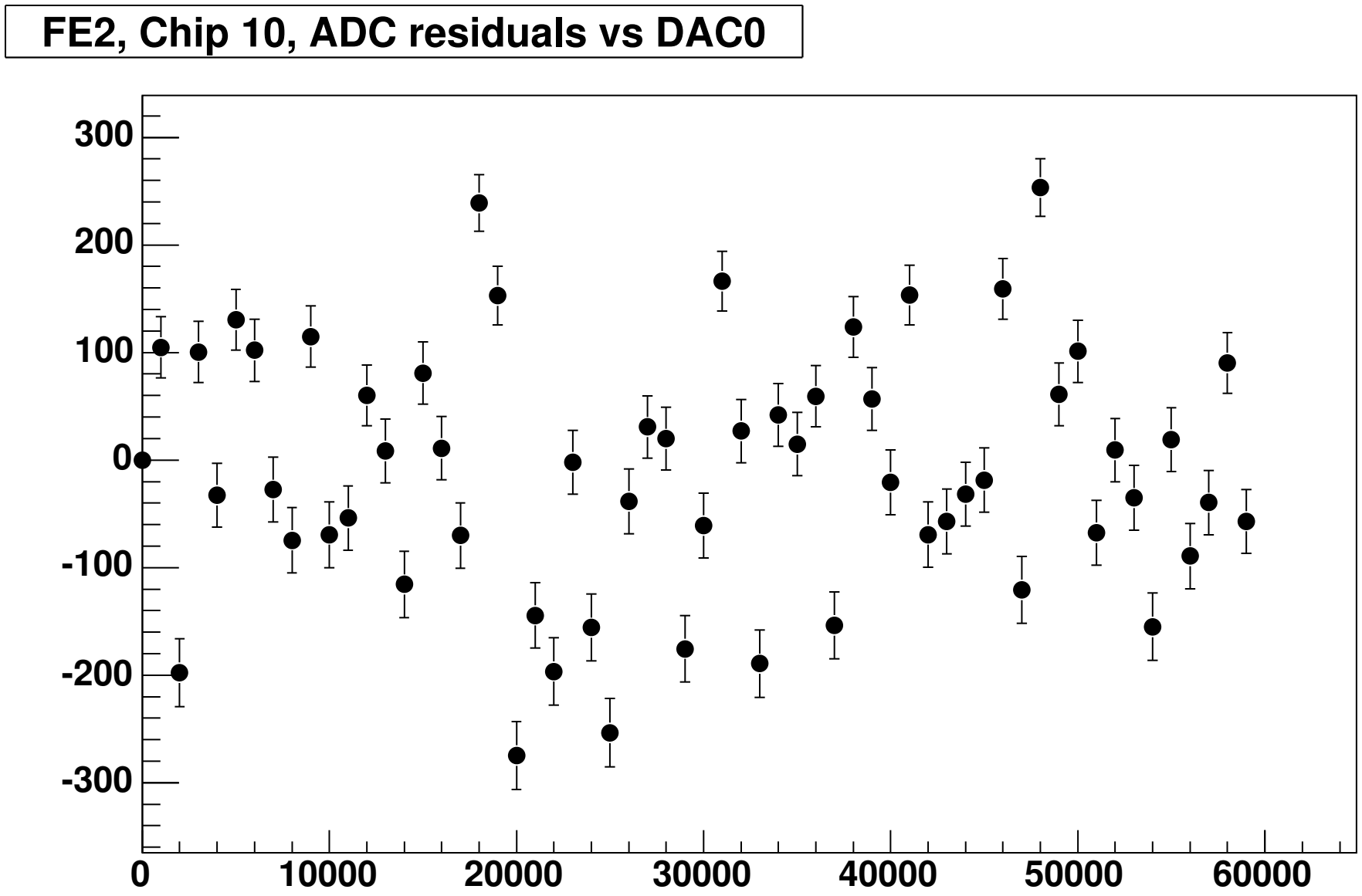
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE2, Chip 10, ADC mean vs DAC0
χ² / ndf 919.9 / 57
p0 4017 ± 7.77
p1 -0.0008778 ± 0.0002253
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE2, Chip 10, ADC noise vs DAC0
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE2, Chip 10, ADC residuals vs DAC0
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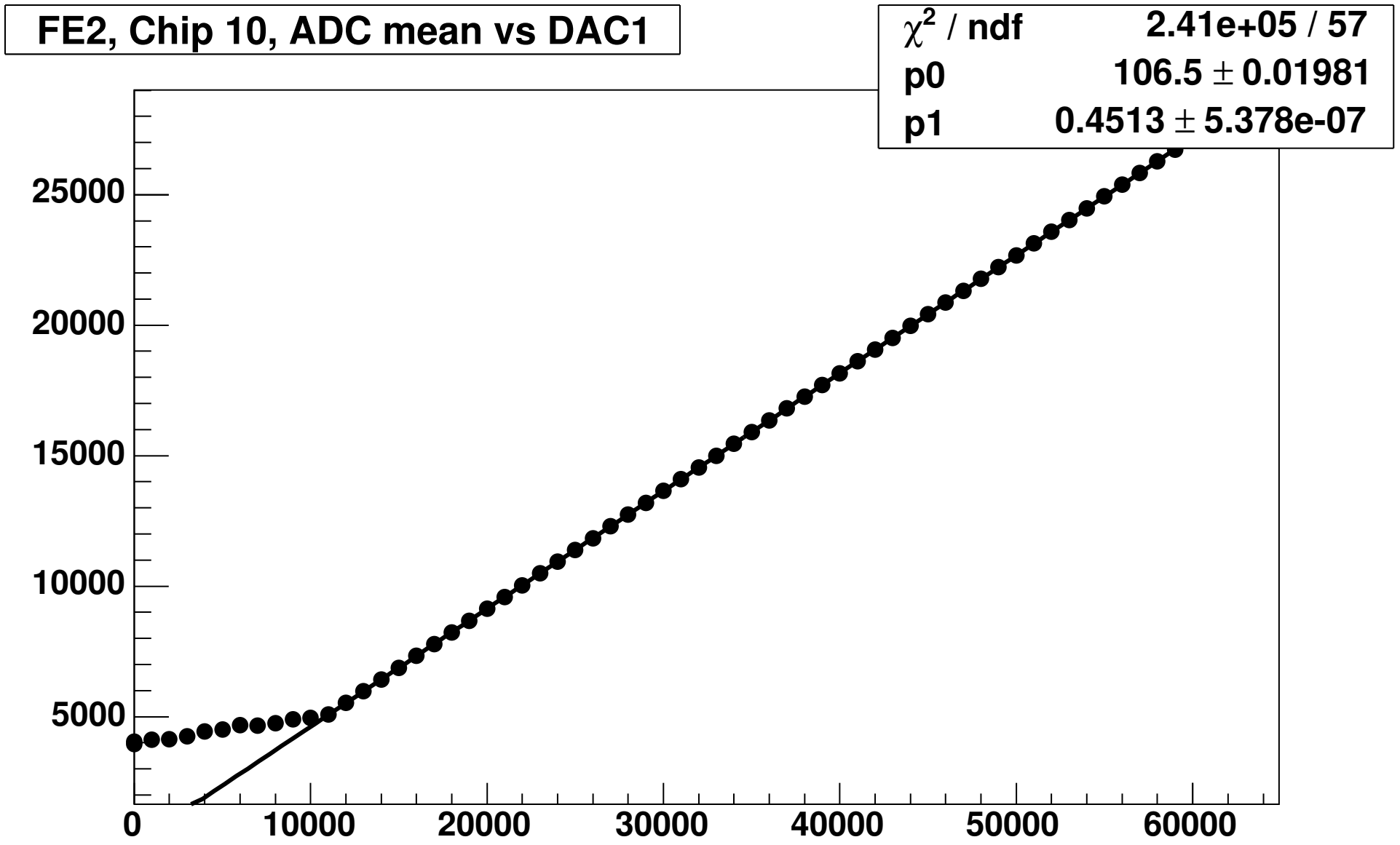
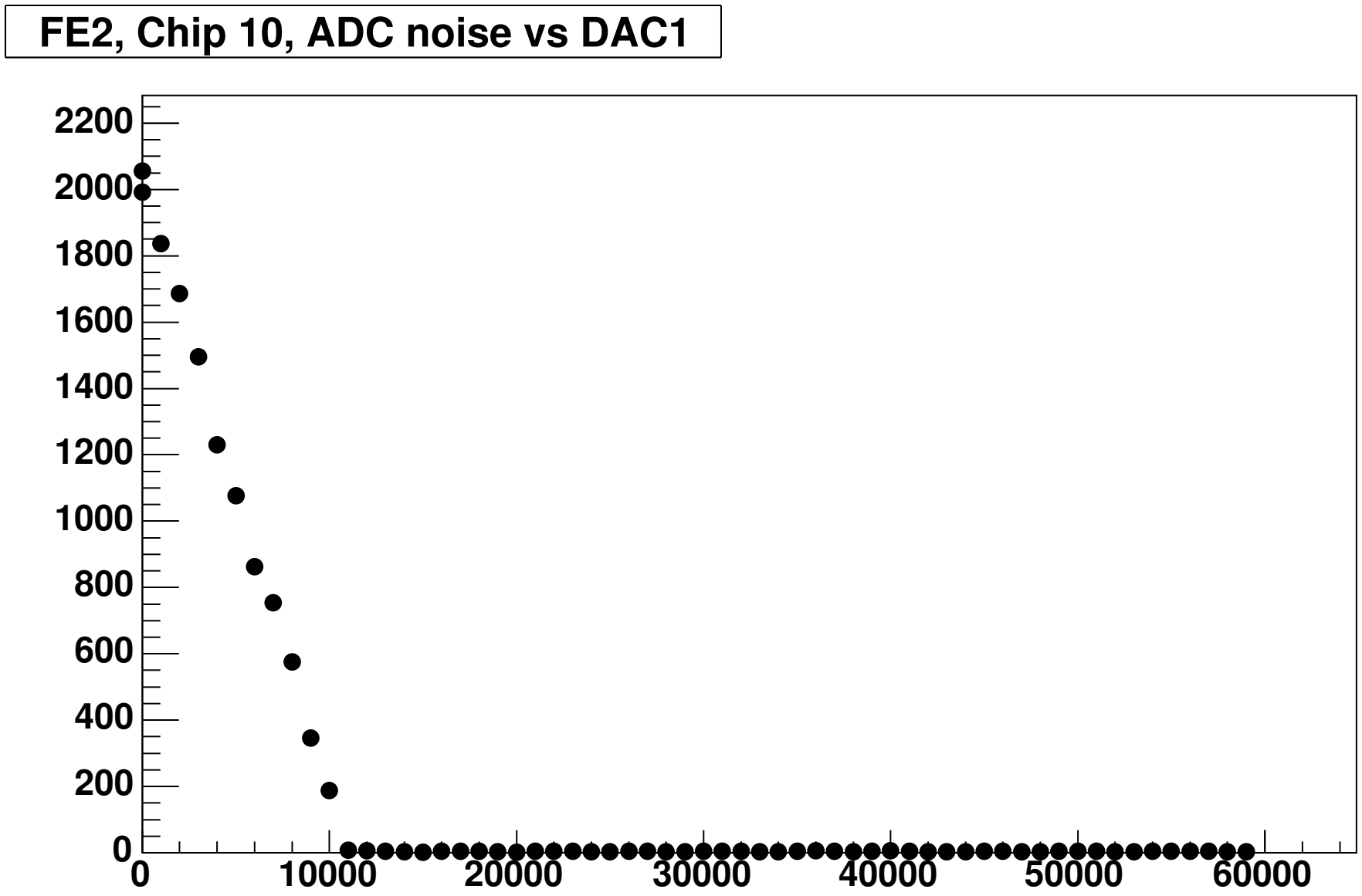
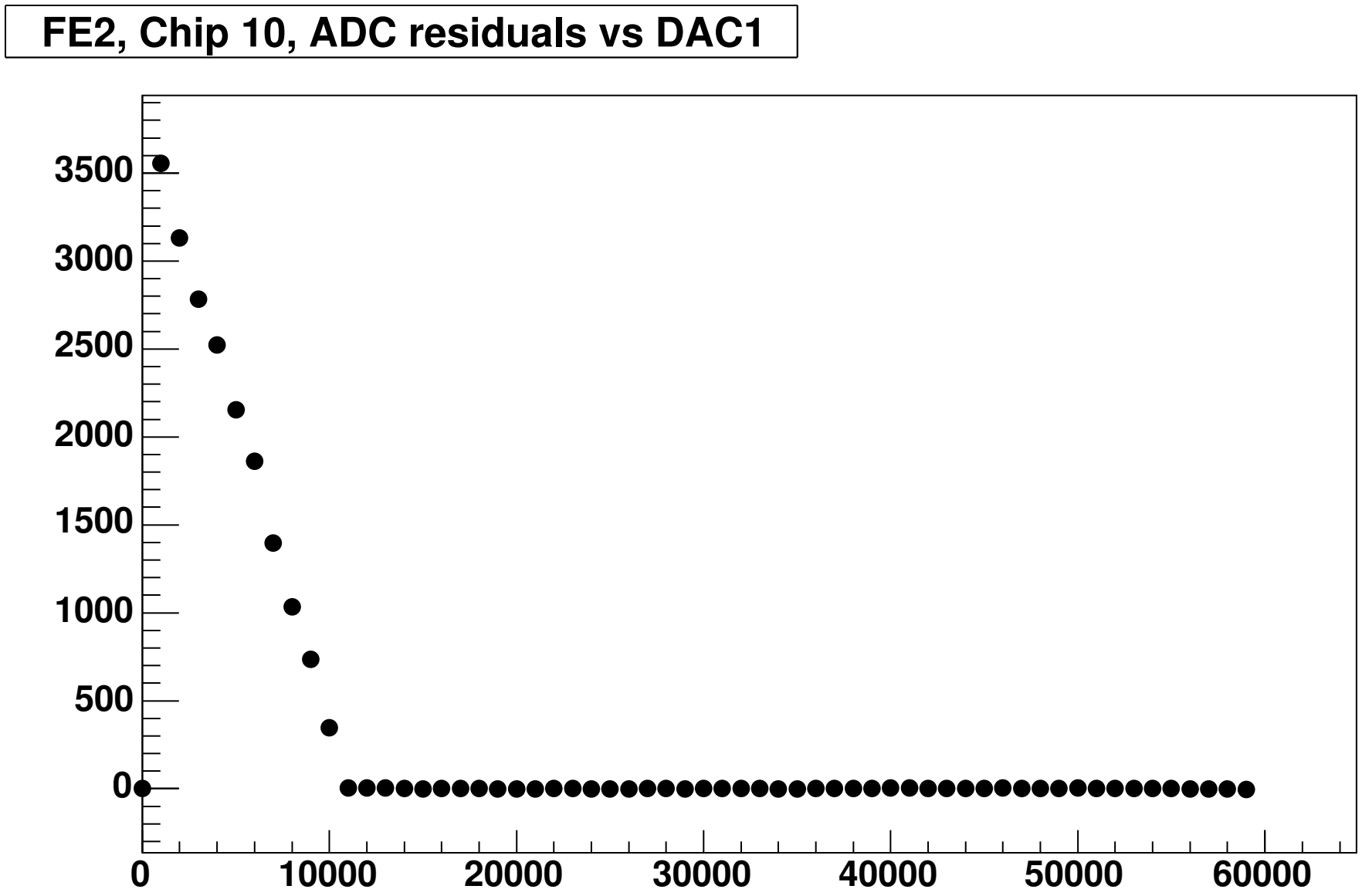
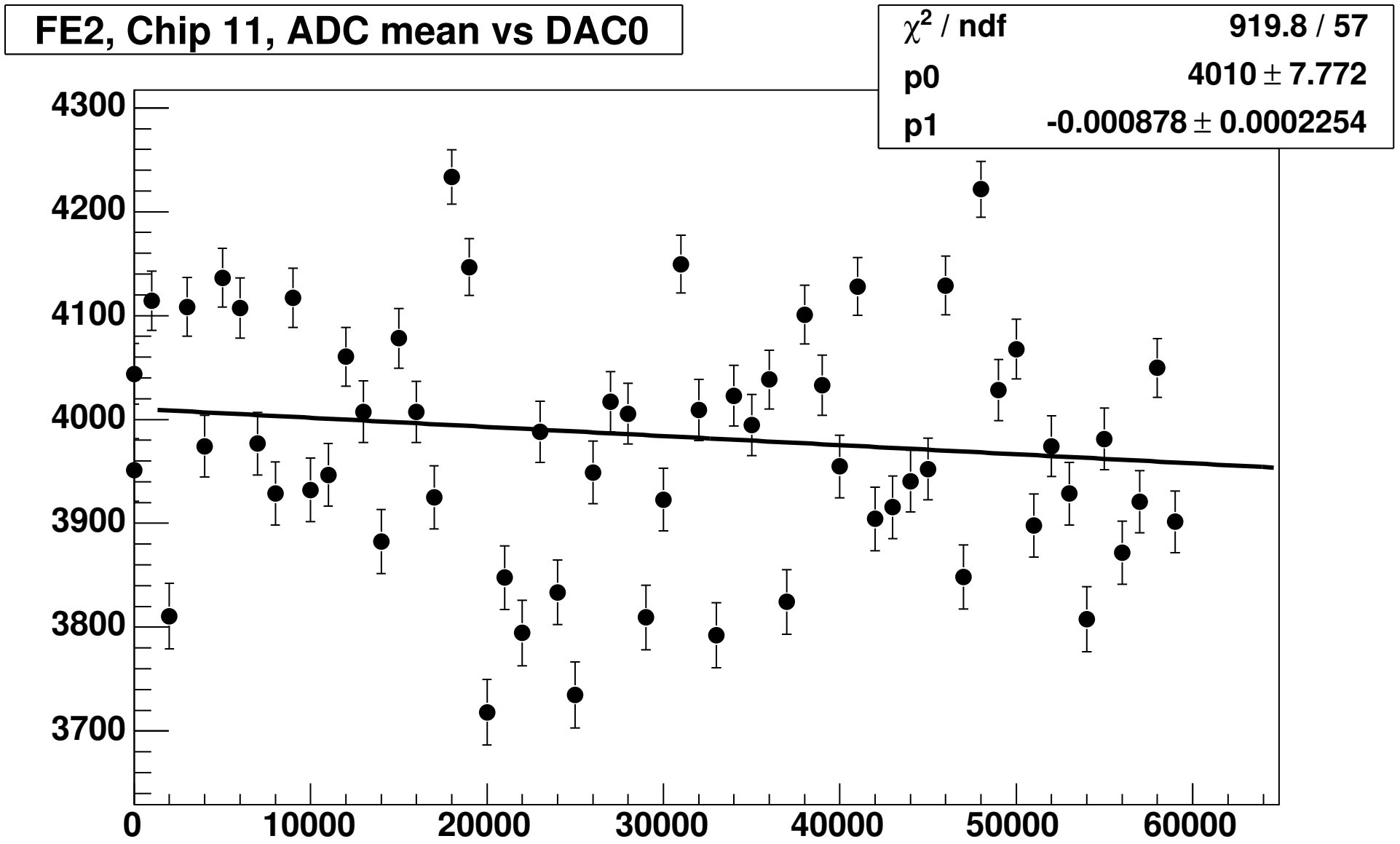
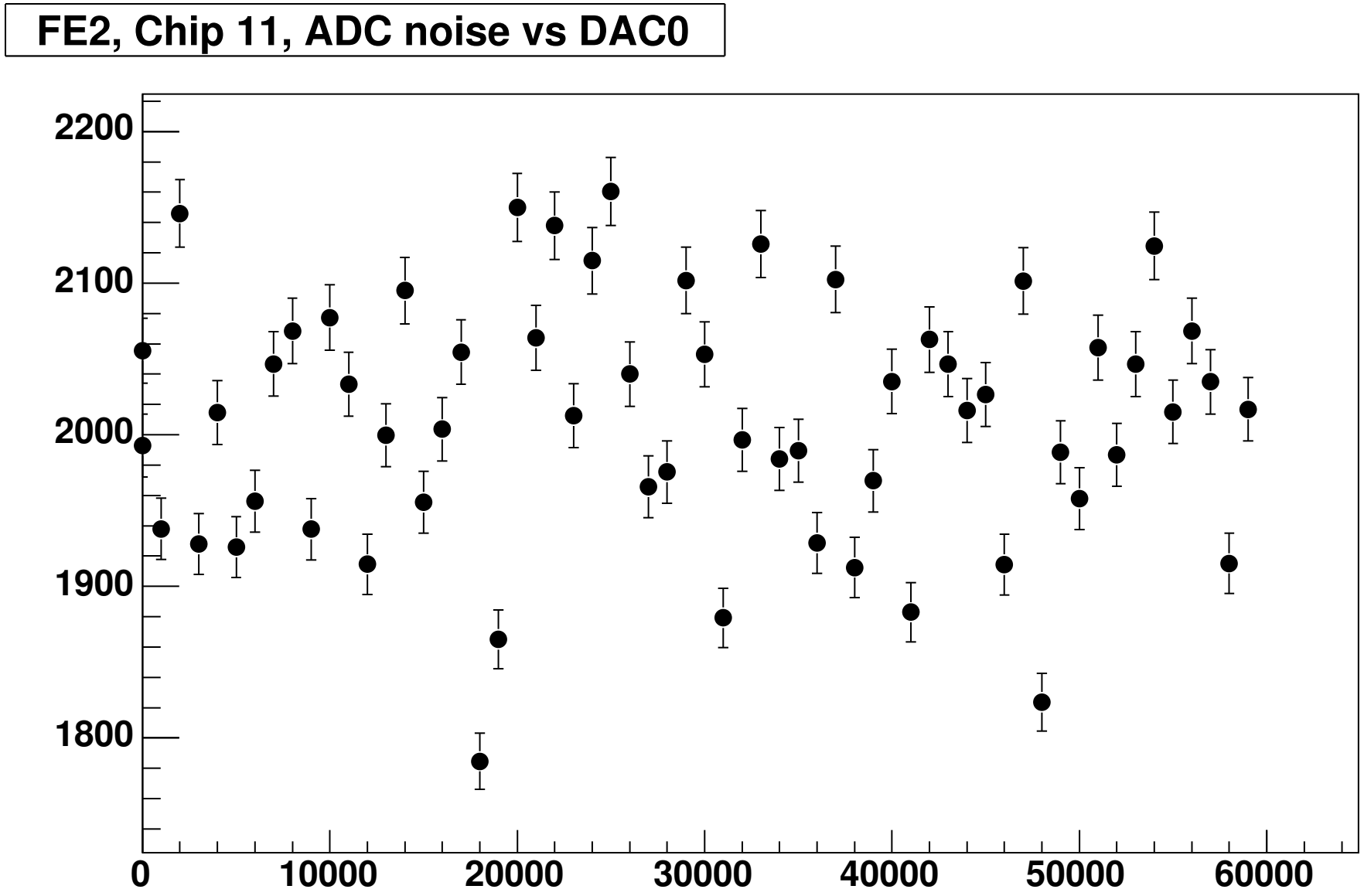
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

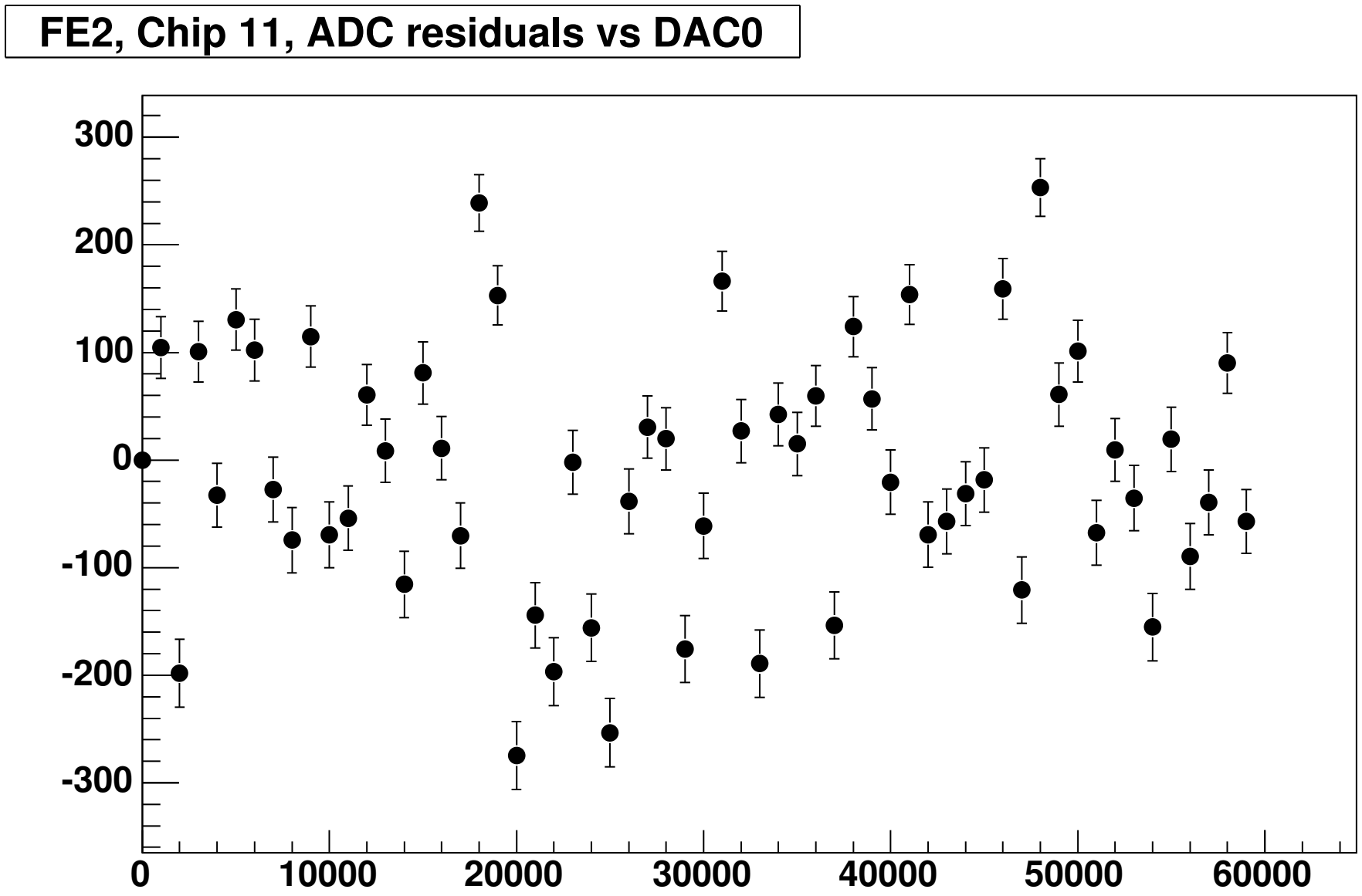

FE2, Chip 10, ADC mean vs DAC1
χ² / ndf 2.41e+05 / 57
p0 106.5 ± 0.01981
p1 0.4513 ± 5.378e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

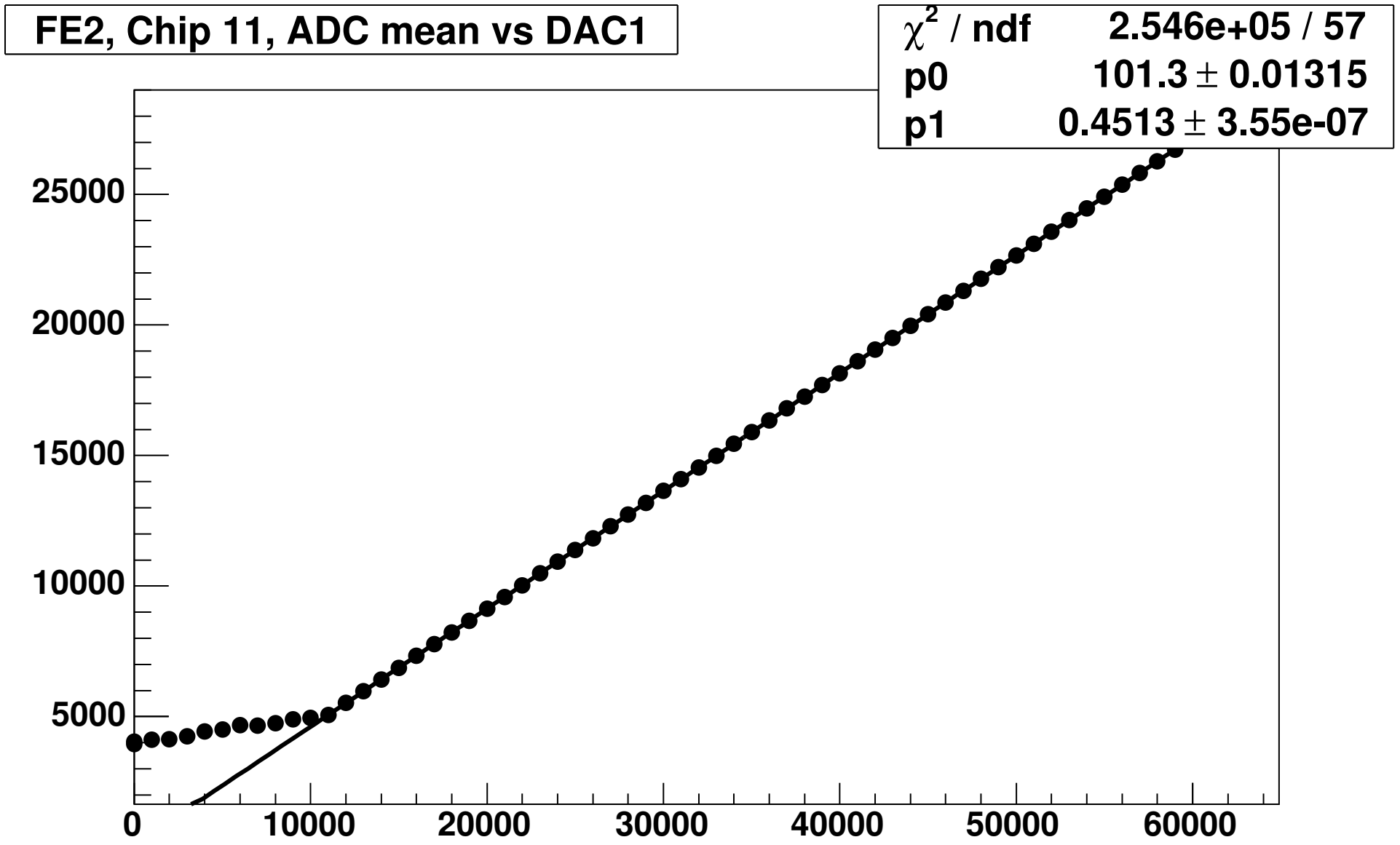

FE2, Chip 10, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

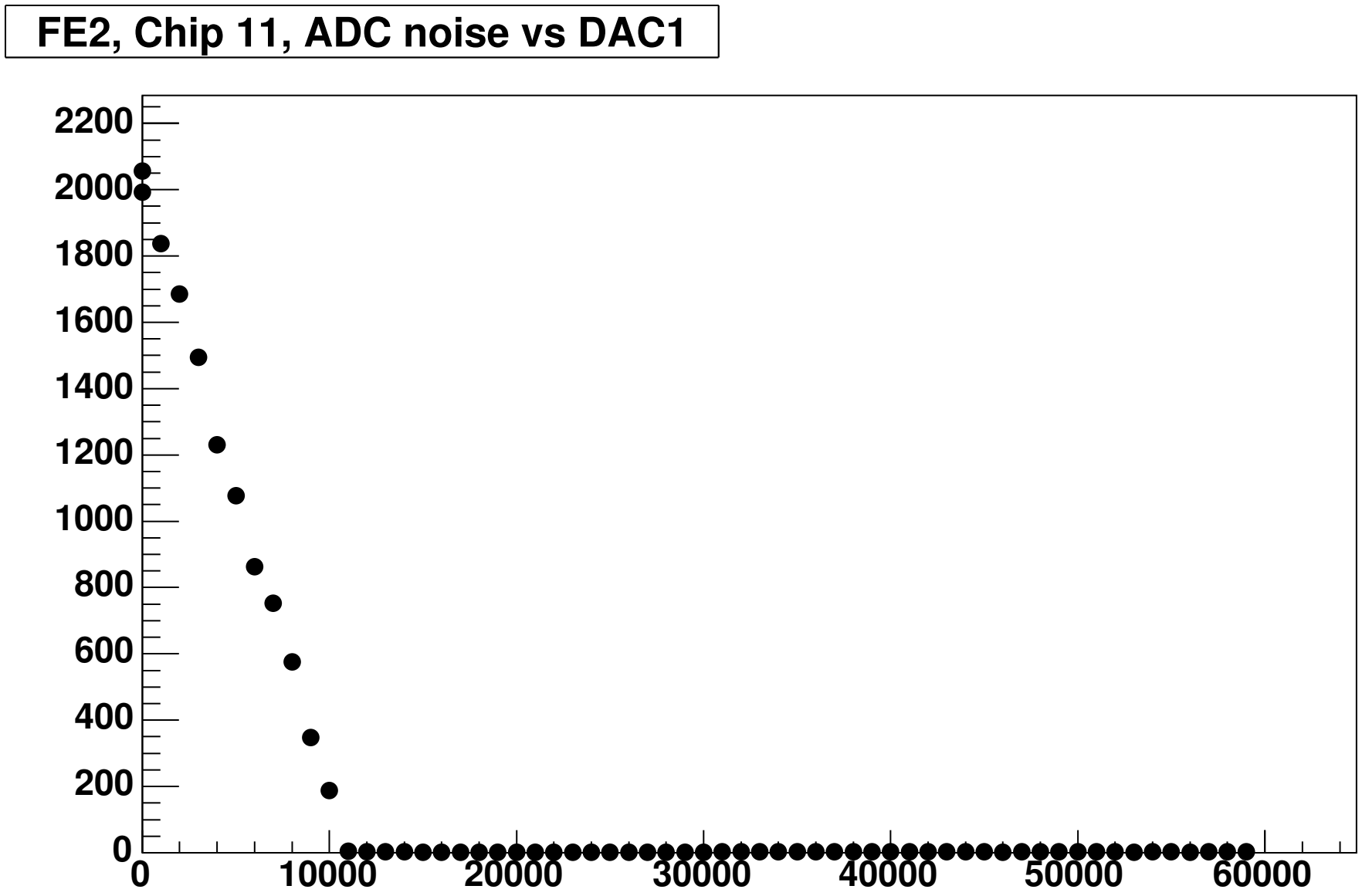

FE2, Chip 10, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

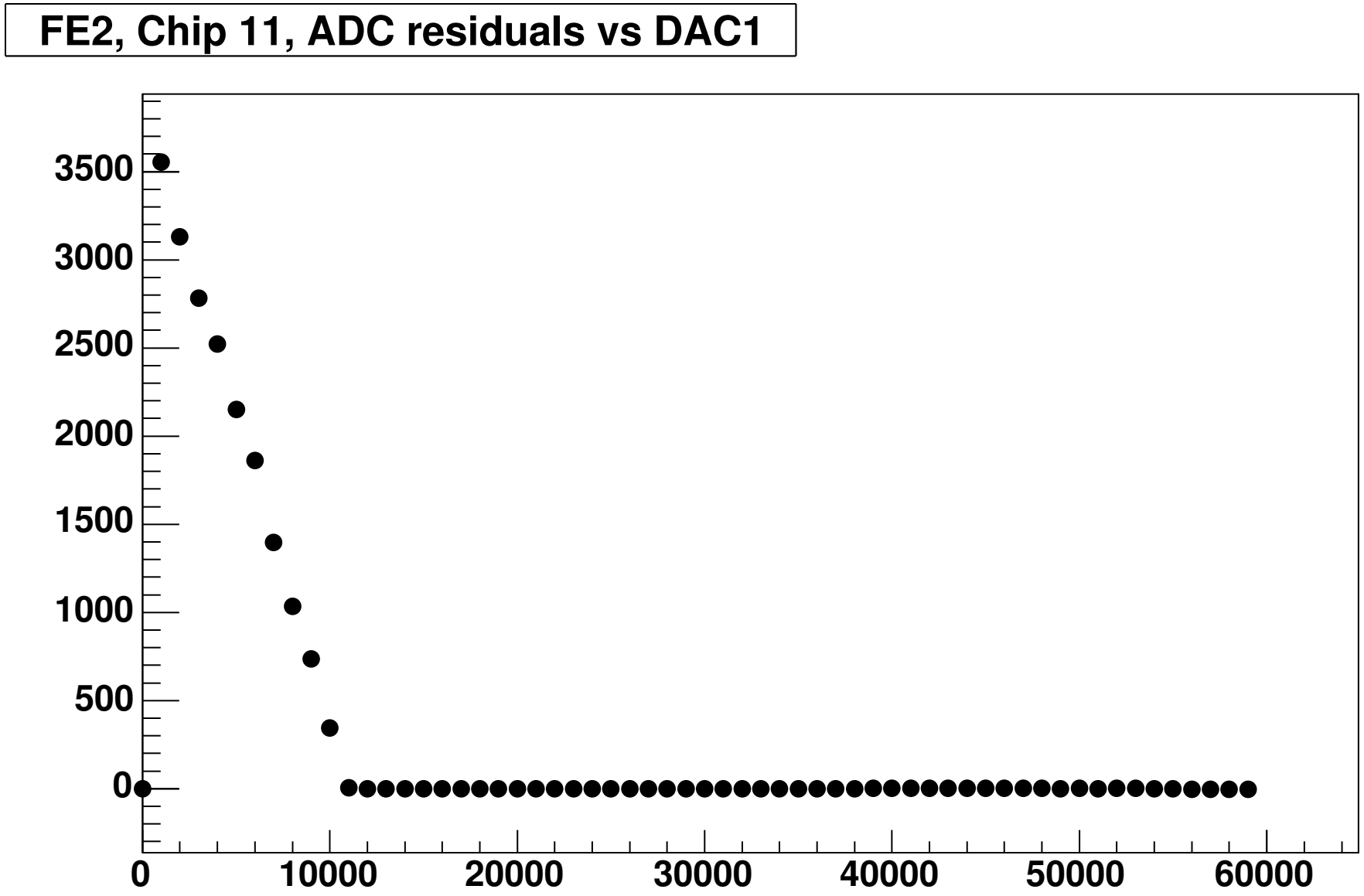

FE2, Chip 11, ADC mean vs DAC0
χ² / ndf 919.8 / 57
p0 4010 ± 7.772
p1 -0.000878 ± 0.0002254
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000

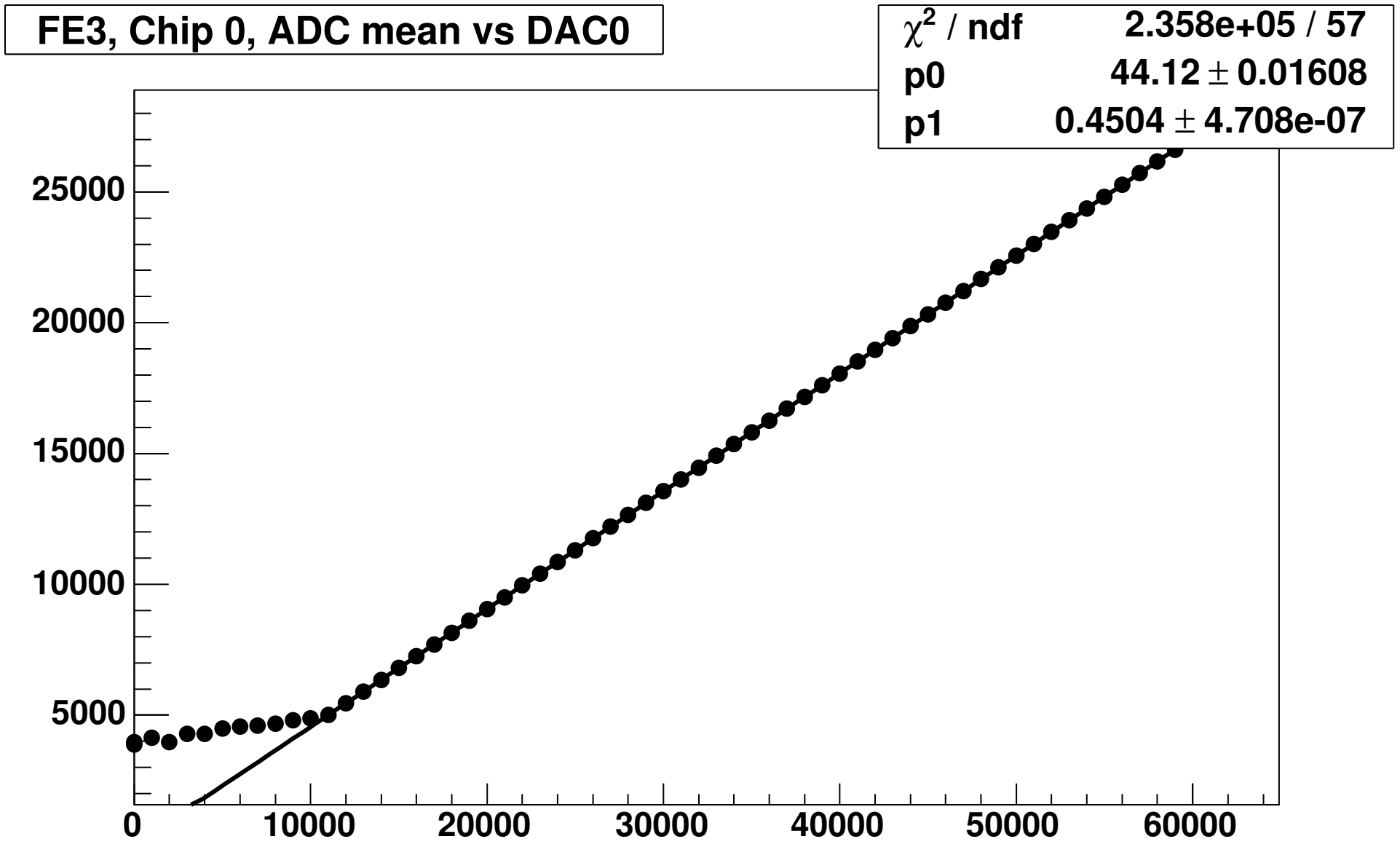

FE2, Chip 11, ADC noise vs DAC0
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000

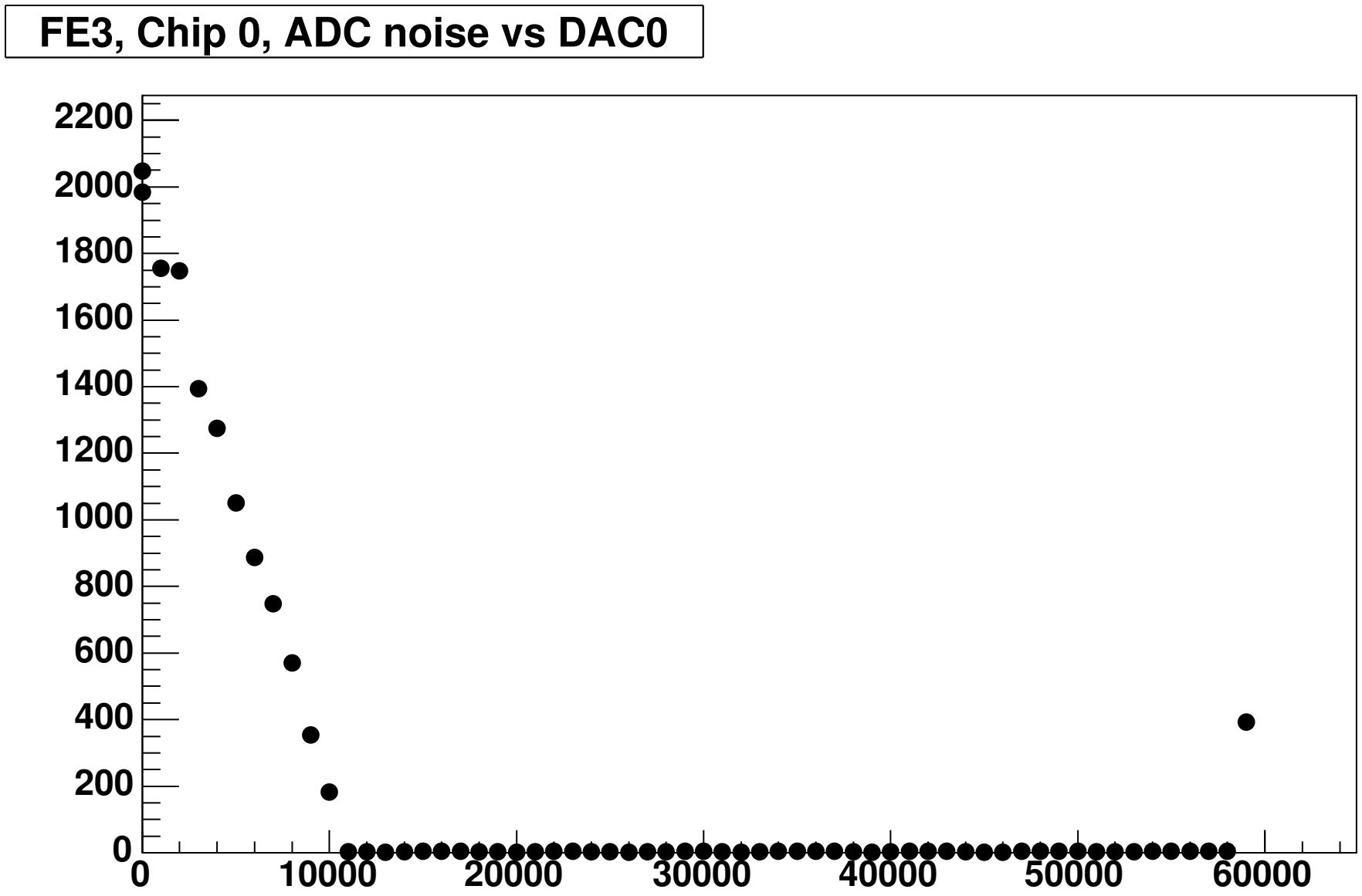

FE2, Chip 11, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

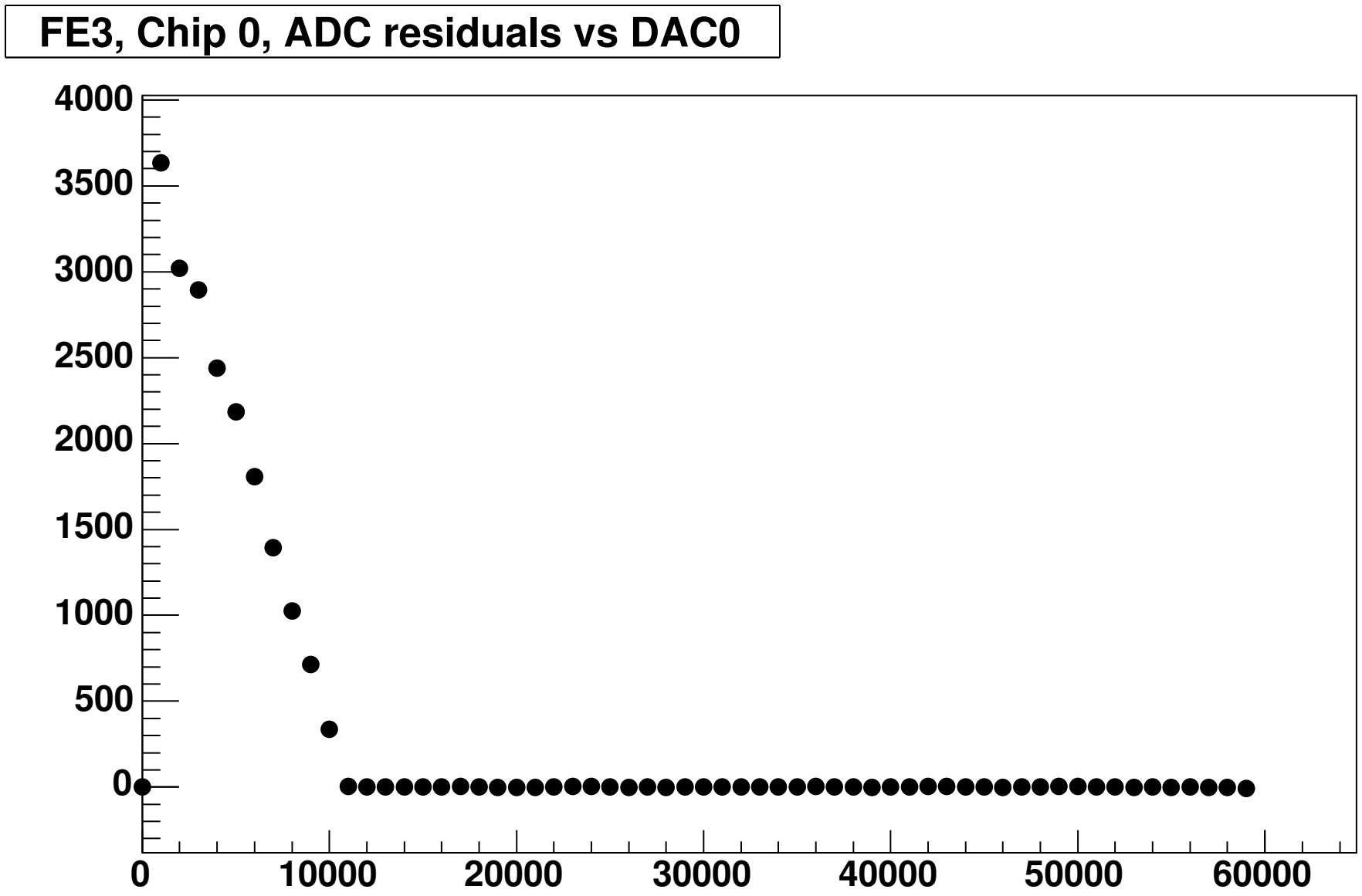

FE2, Chip 11, ADC mean vs DAC1
χ² / ndf 2.546e+05 / 57
p0 101.3 ± 0.01315
p1 0.4513 ± 3.55e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

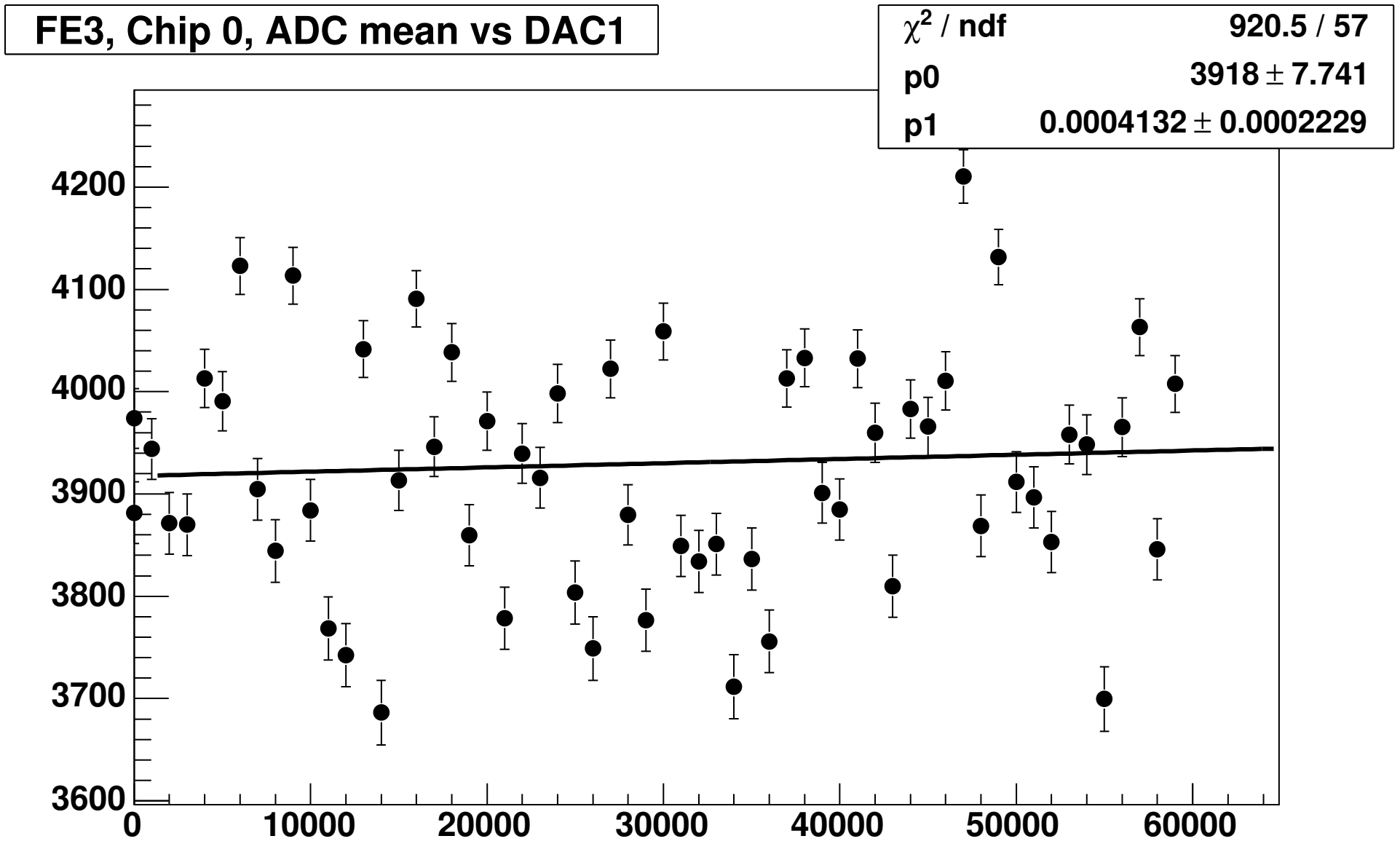

FE2, Chip 11, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

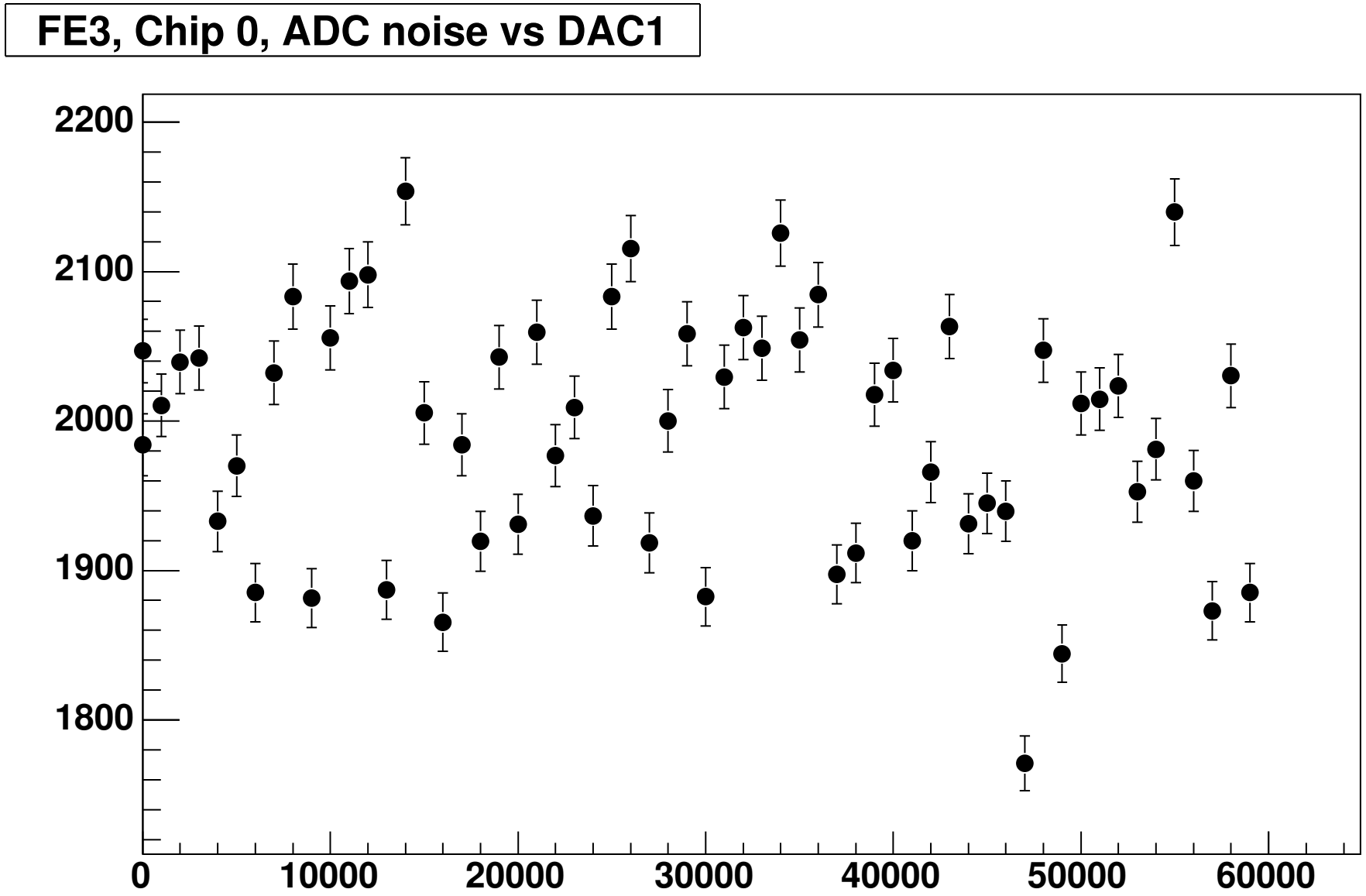

FE2, Chip 11, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

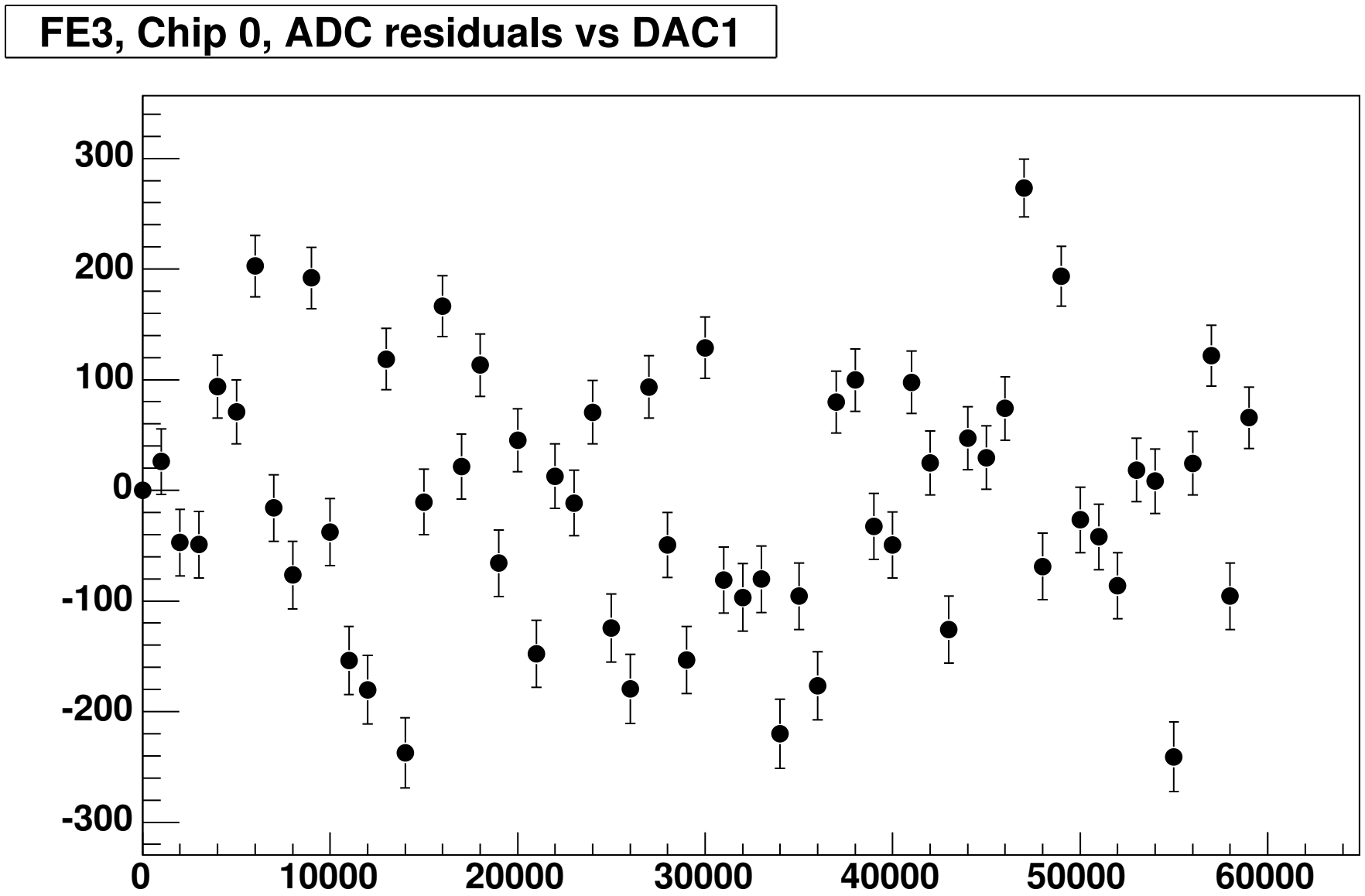

FE3, Chip 0, ADC mean vs DAC0
χ² / ndf 2.358e+05 / 57
p0 44.12 ± 0.01608
p1 0.4504 ± 4.708e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

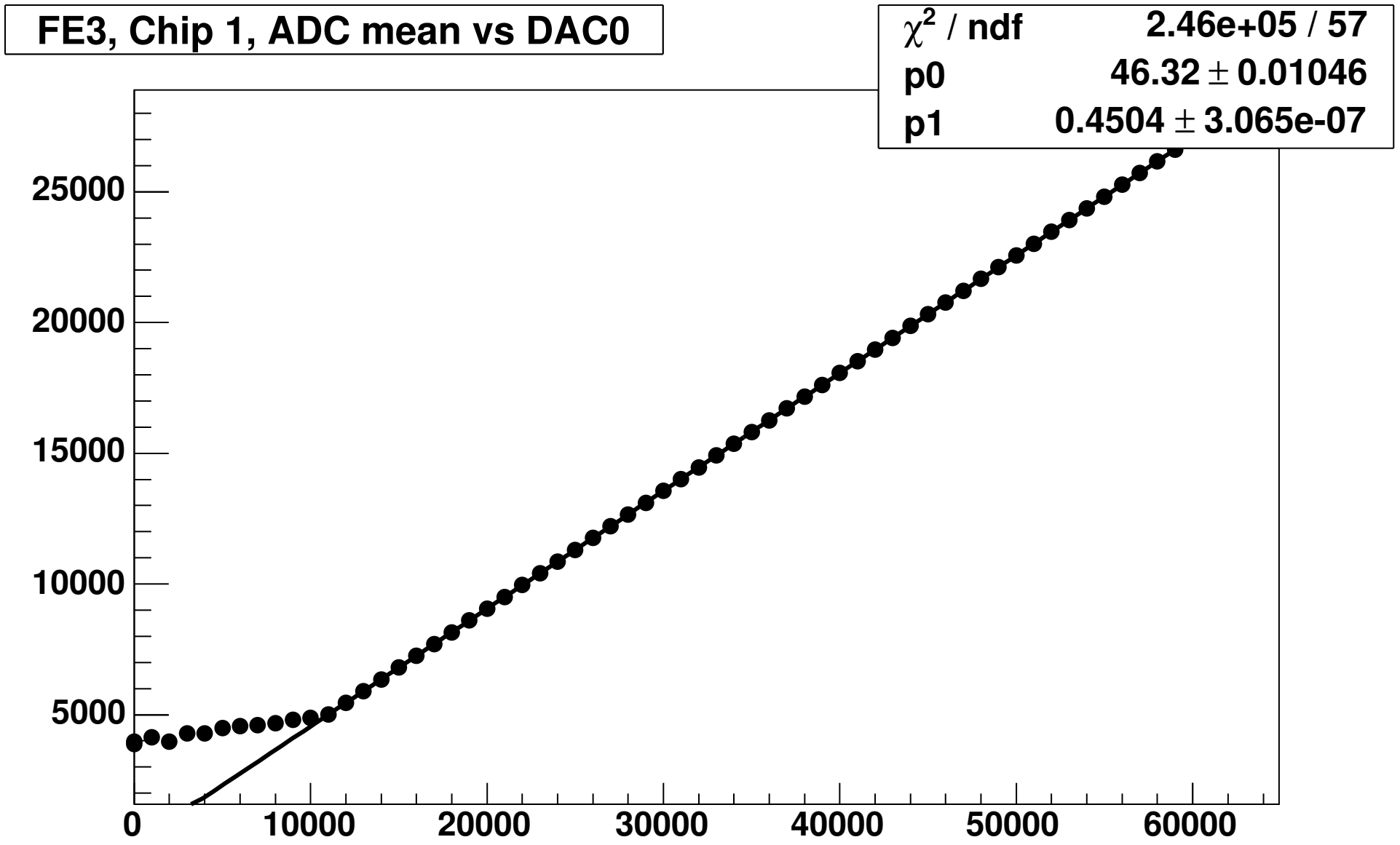

FE3, Chip 0, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

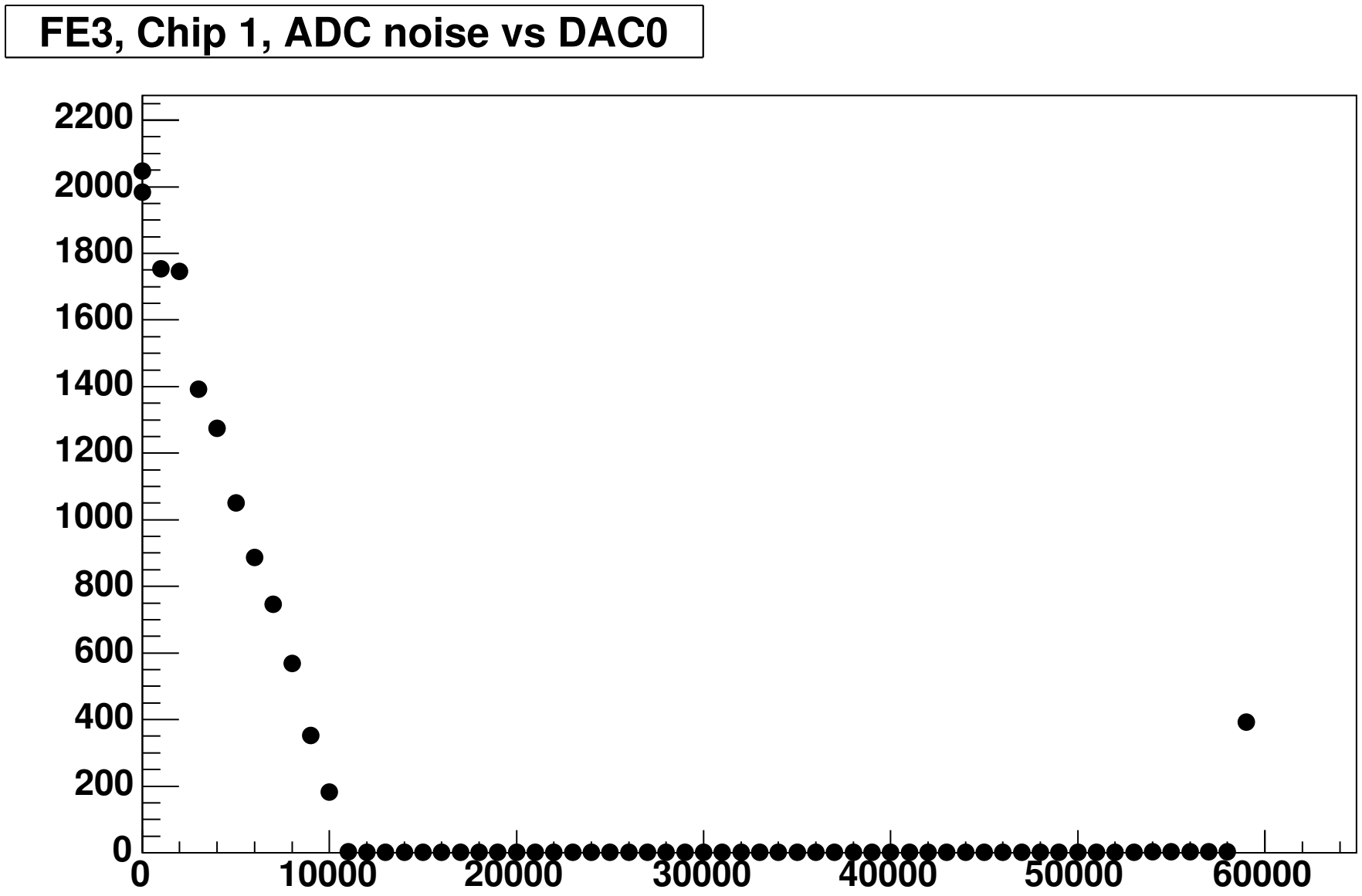

FE3, Chip 0, ADC residuals vs DAC0
4000
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE3, Chip 0, ADC mean vs DAC1
χ² / ndf 920.5 / 57
p0 3918 ± 7.741
p1 0.0004132 ± 0.0002229
4200
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE3, Chip 0, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE3, Chip 0, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE3, Chip 1, ADC mean vs DAC0
χ² / ndf 2.46e+05 / 57
p0 46.32 ± 0.01046
p1 0.4504 ± 3.065e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE3, Chip 1, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
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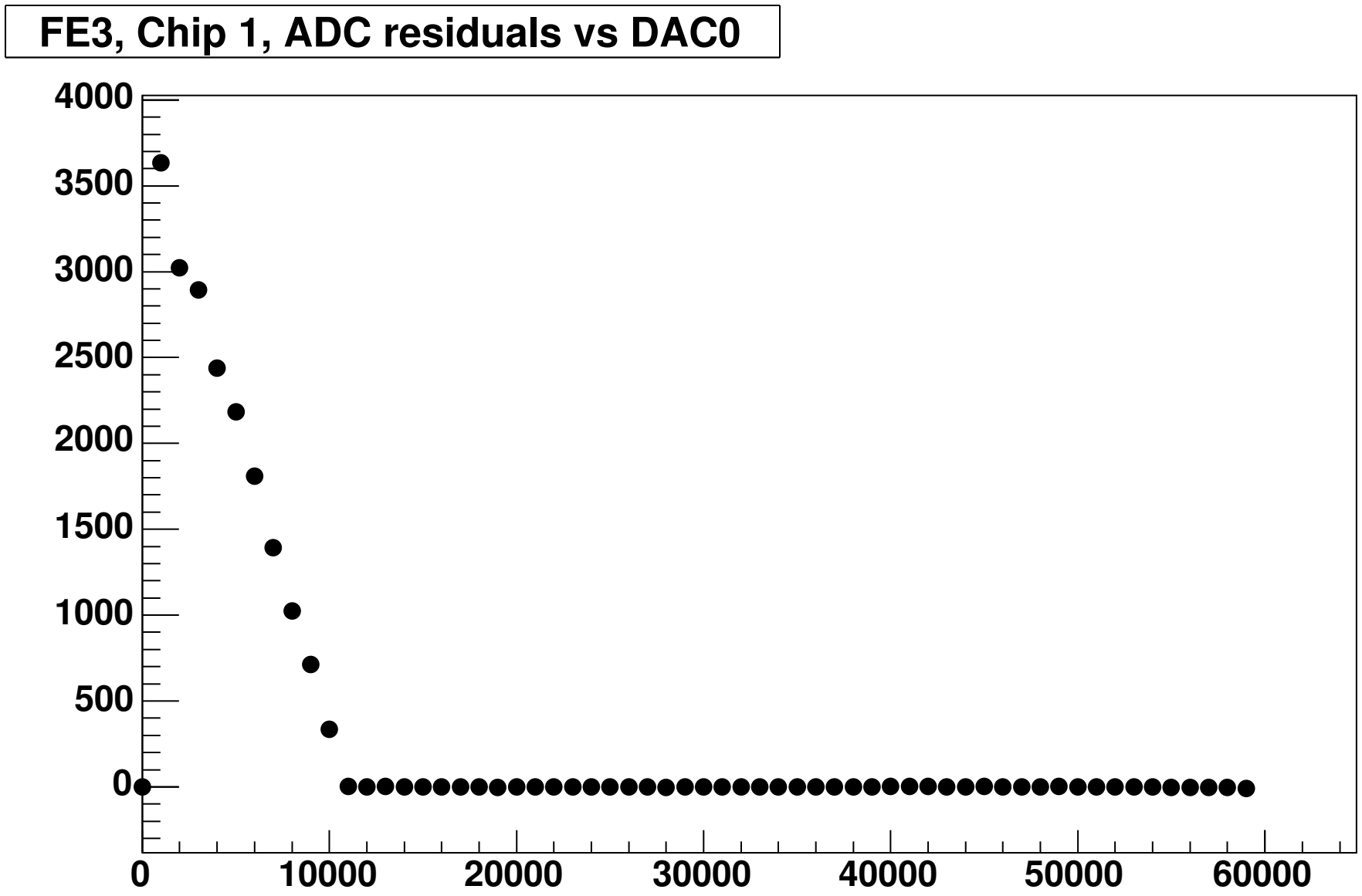
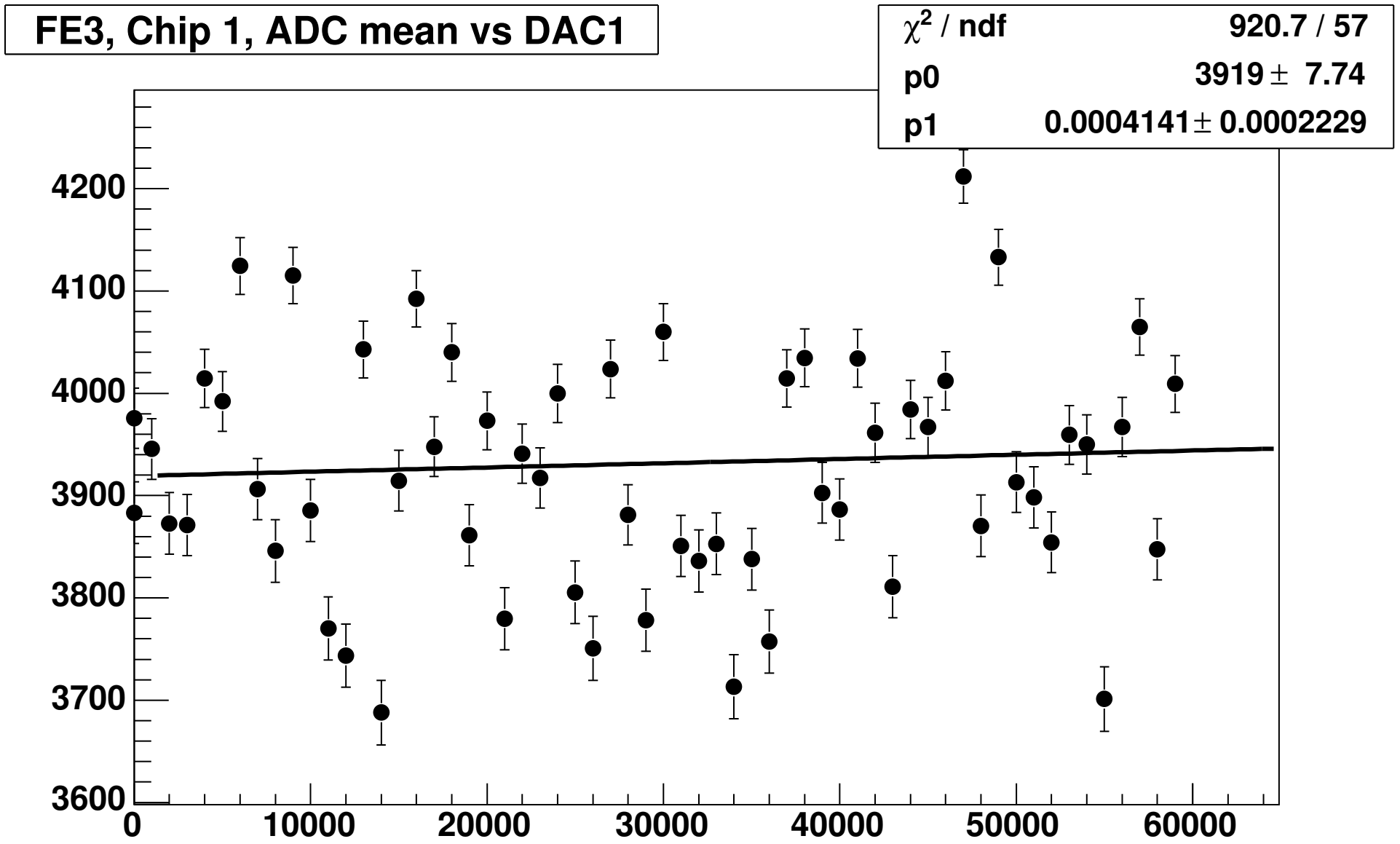
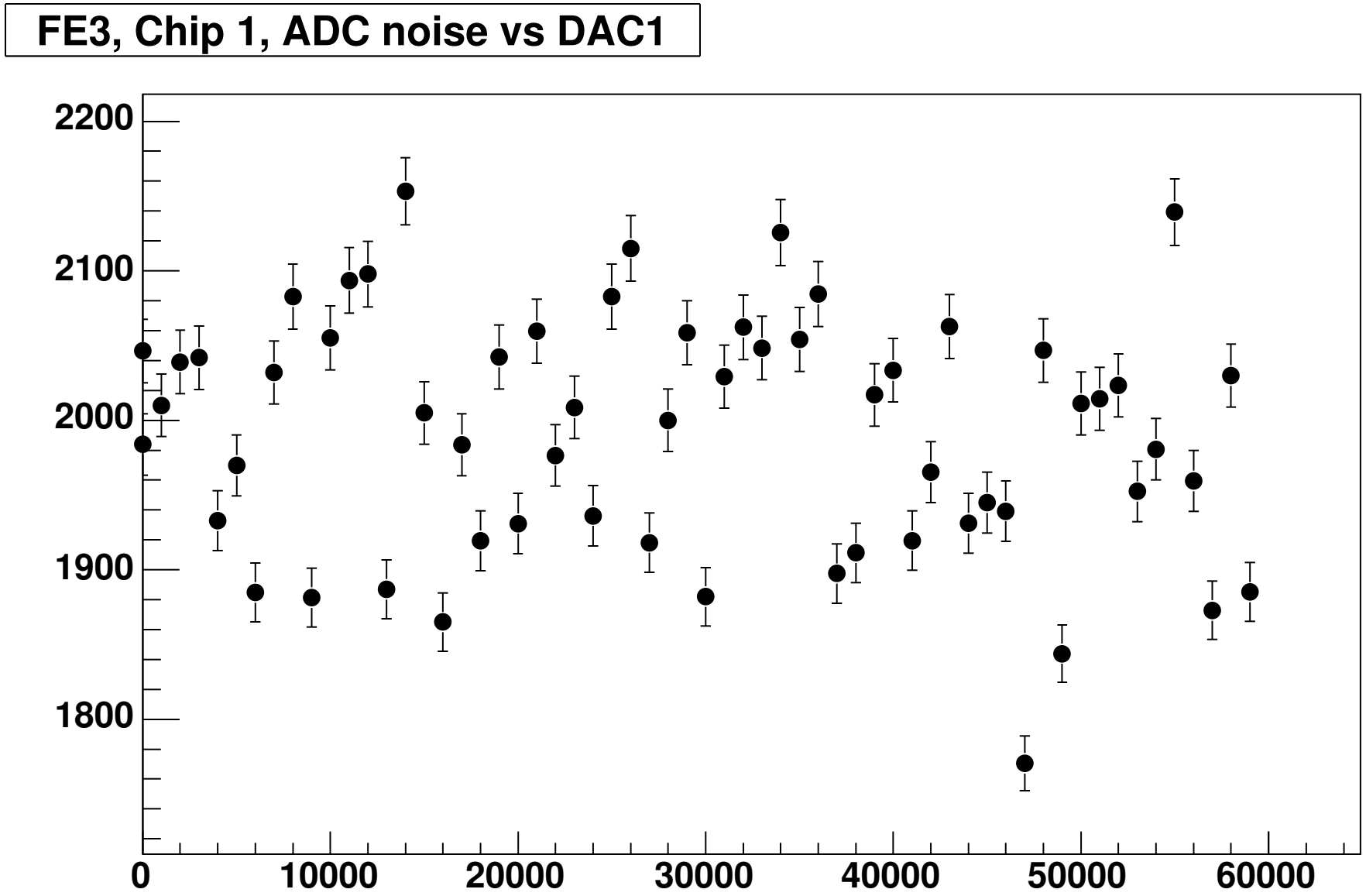
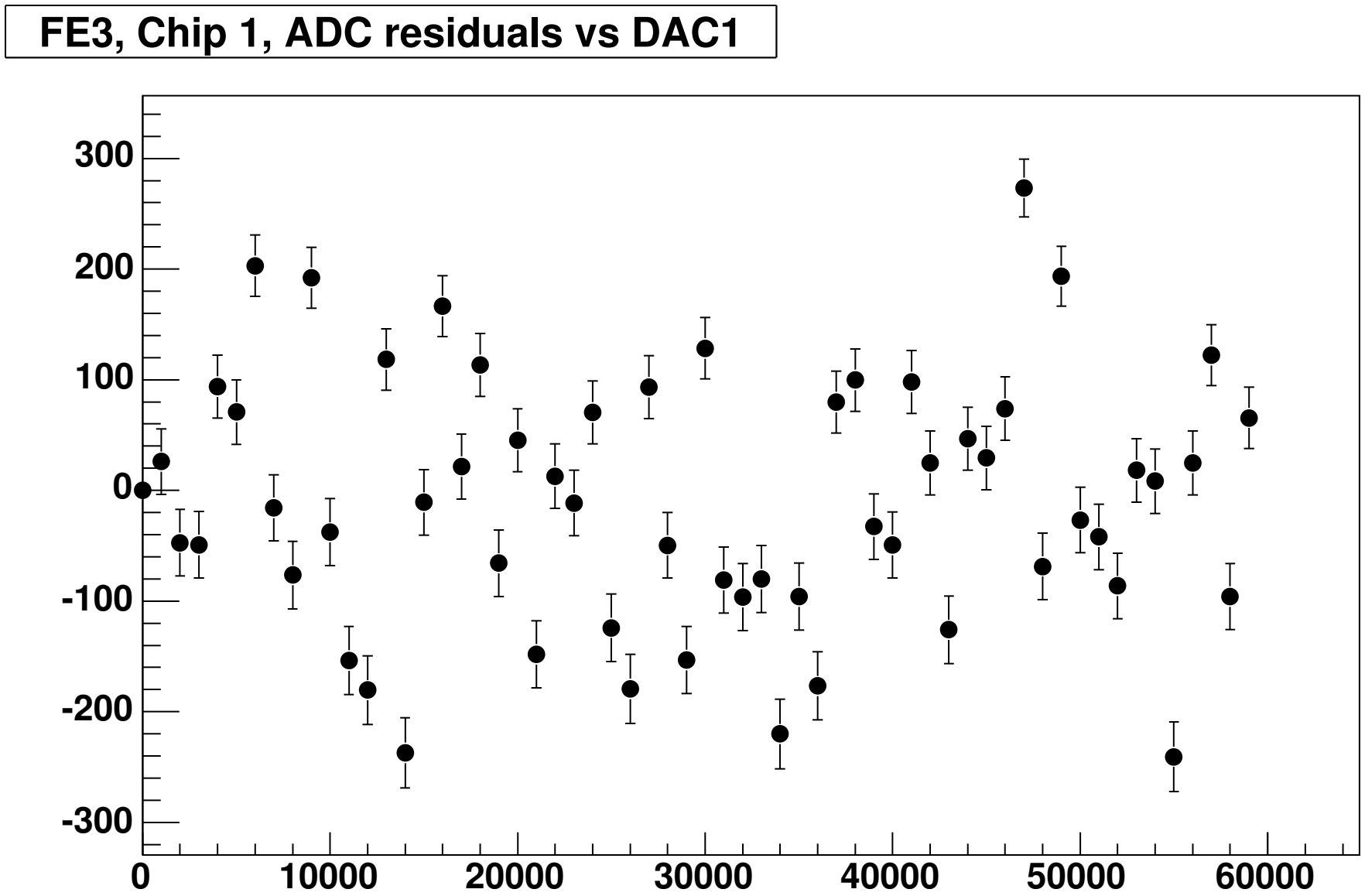
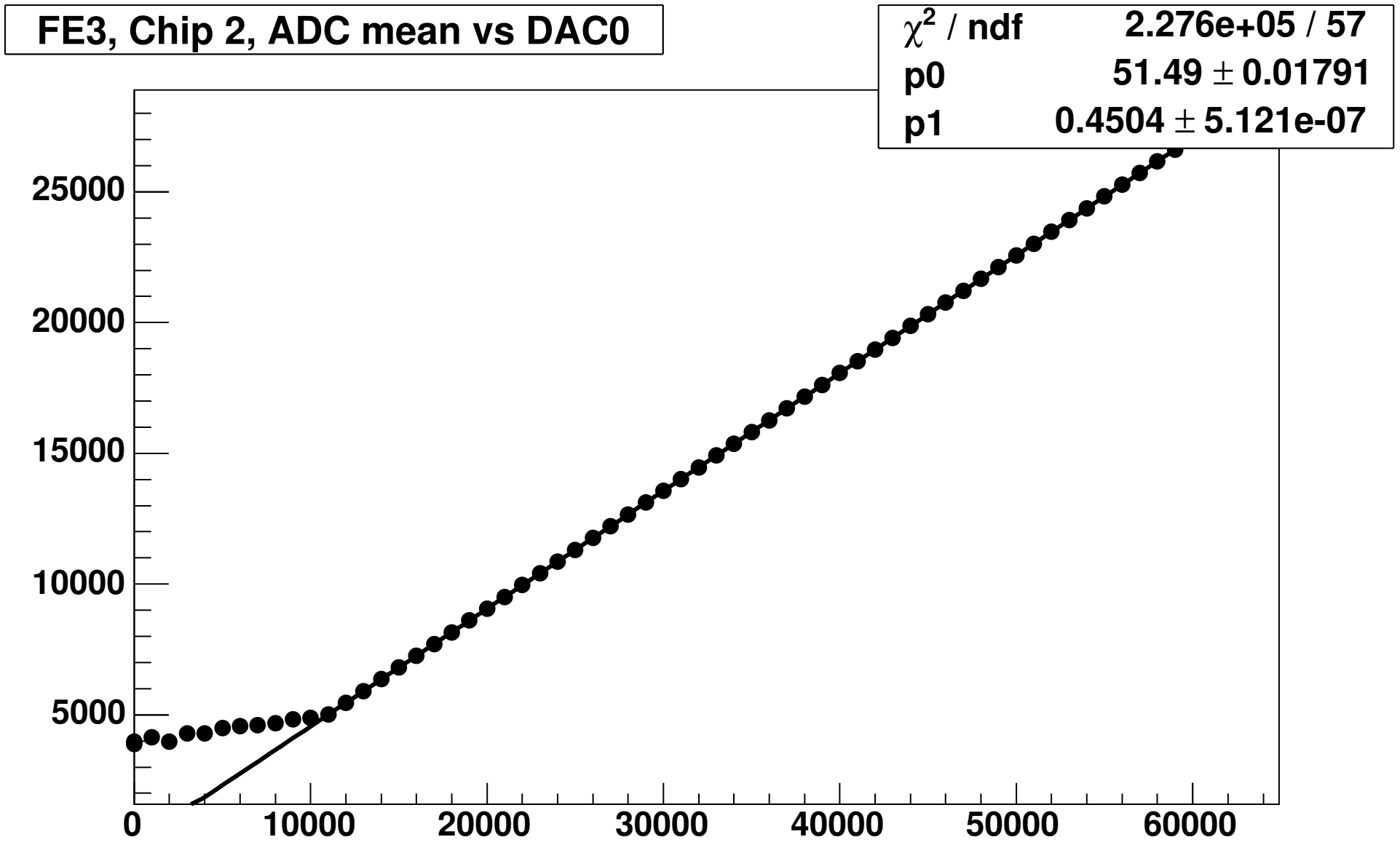
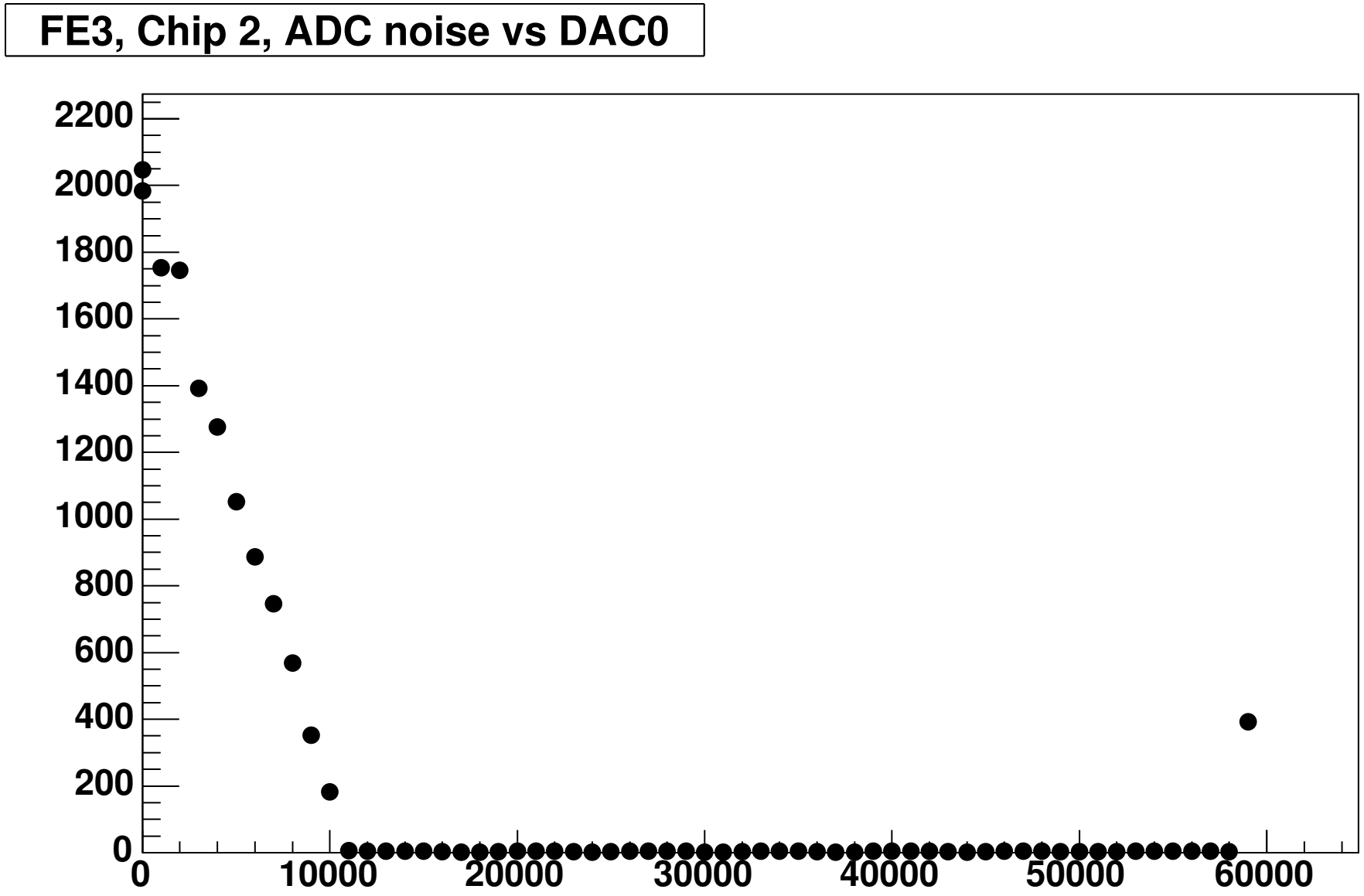

FE3, Chip 1, ADC residuals vs DAC0
4000
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

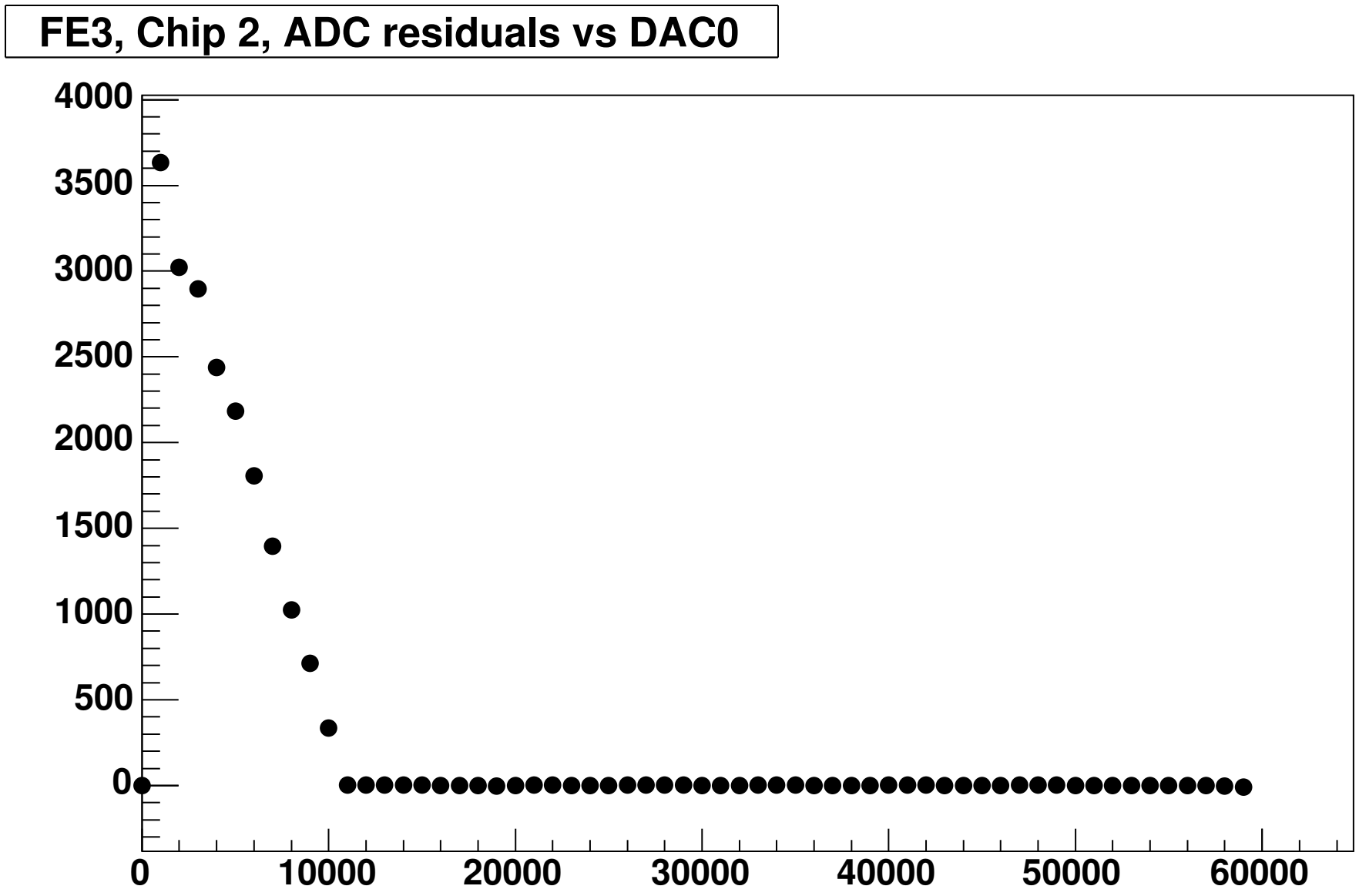

FE3, Chip 1, ADC mean vs DAC1
χ² / ndf 920.7 / 57
p0 3919 ± 7.74
p1 0.0004141 ± 0.0002229
4200
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE3, Chip 1, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE3, Chip 1, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE3, Chip 2, ADC mean vs DAC0
χ² / ndf 2.276e+05 / 57
p0 51.49 ± 0.01791
p1 0.4504 ± 5.121e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE3, Chip 2, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE3, Chip 2, ADC residuals vs DAC0
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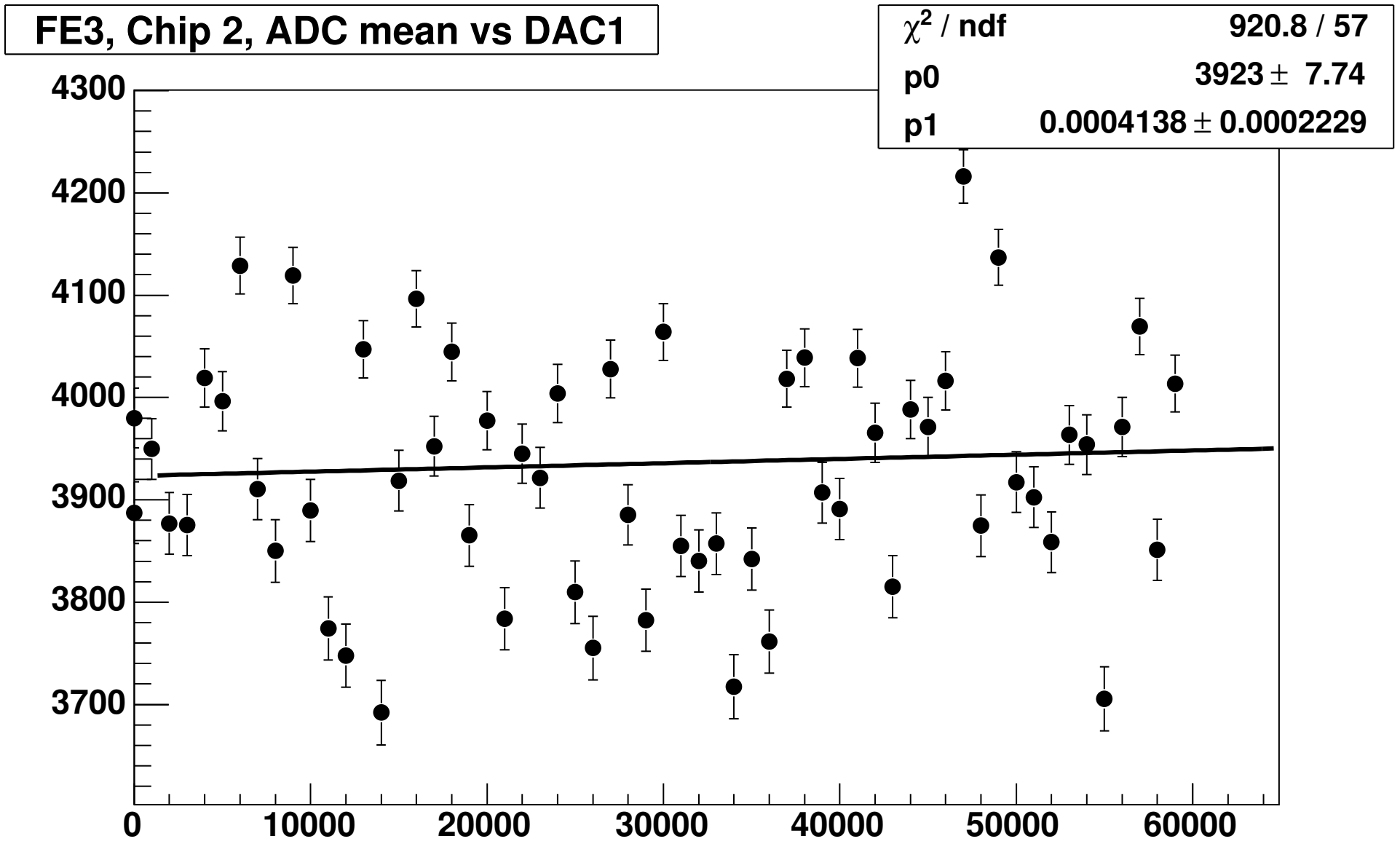
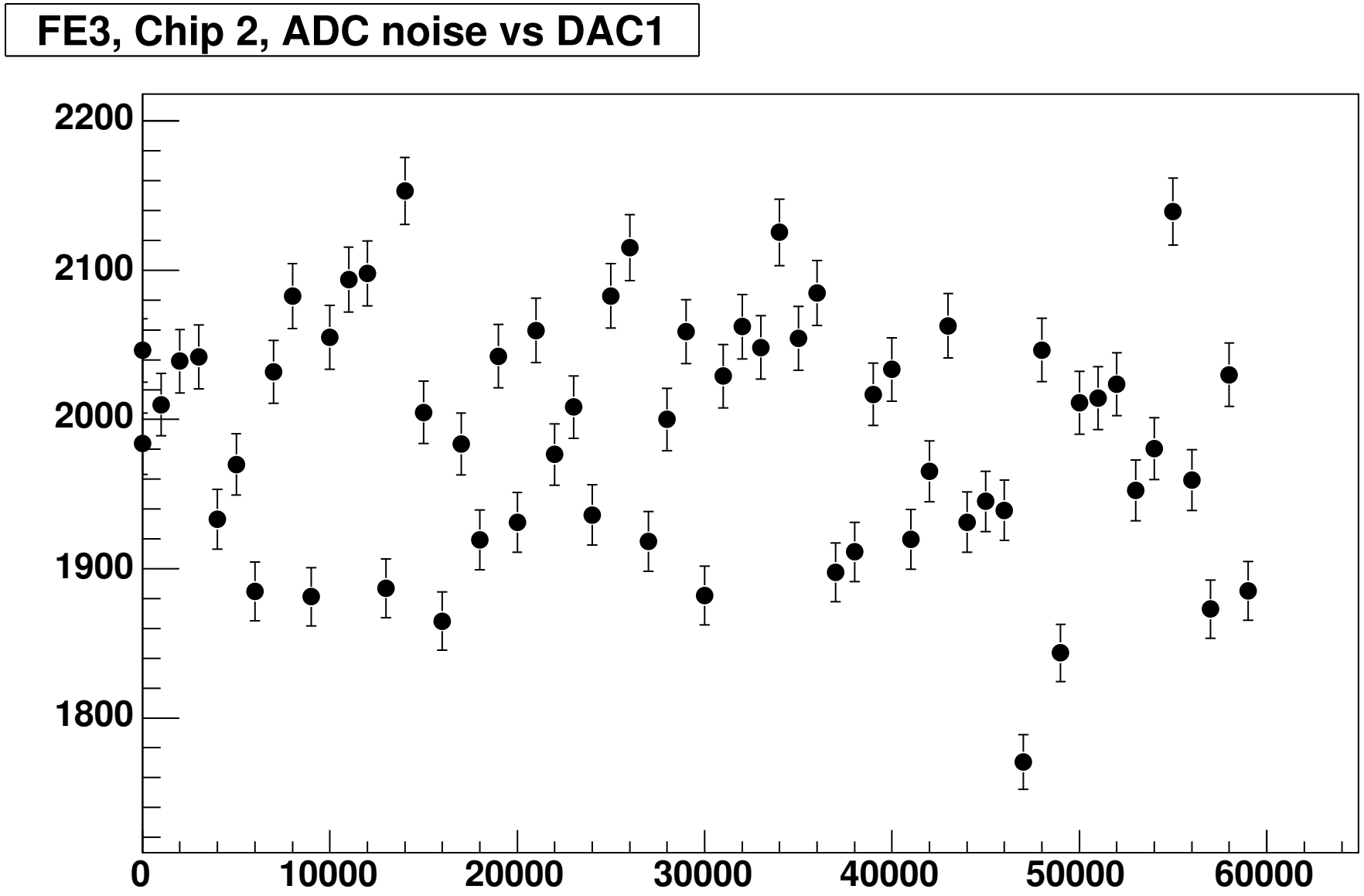
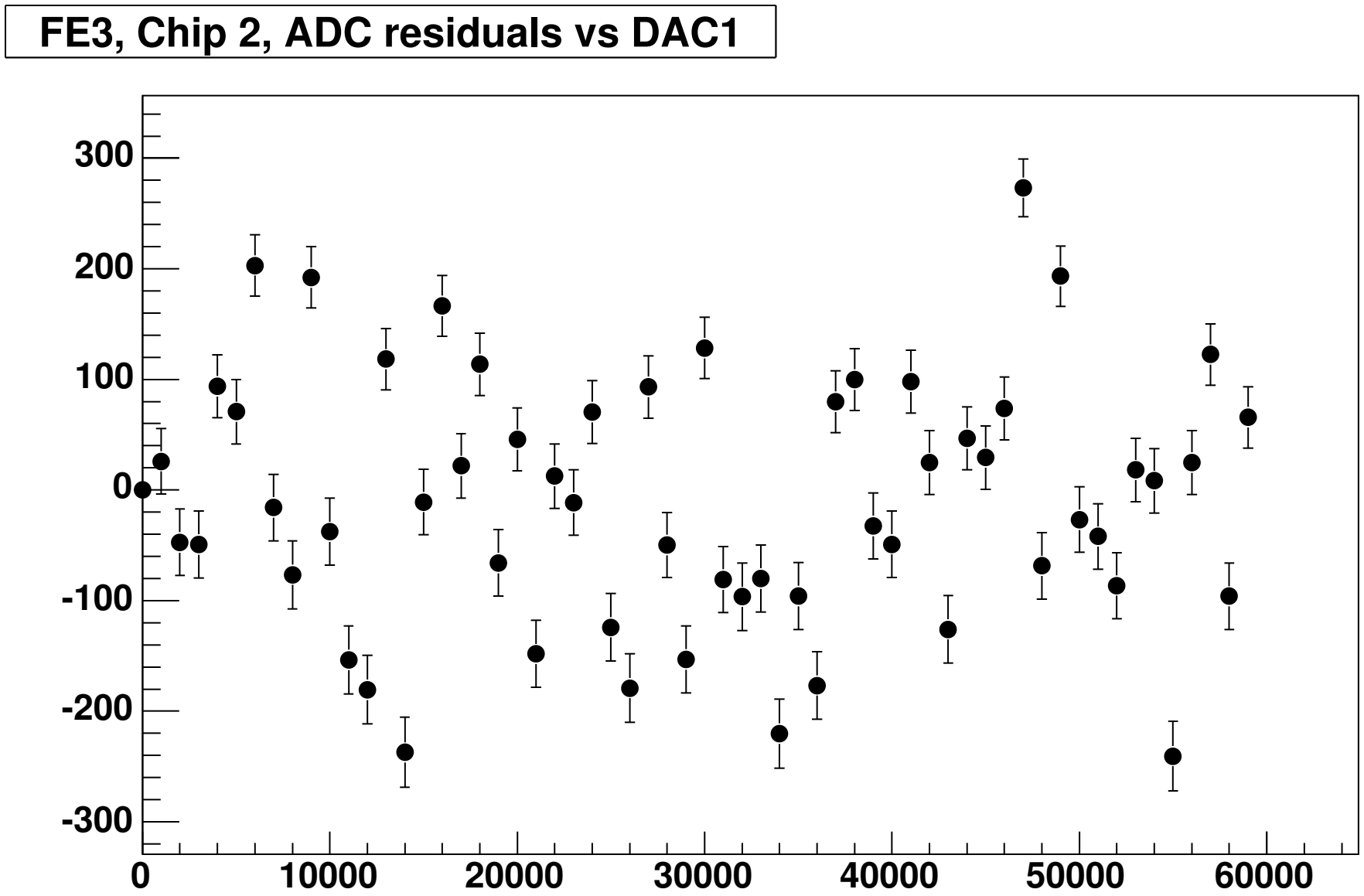
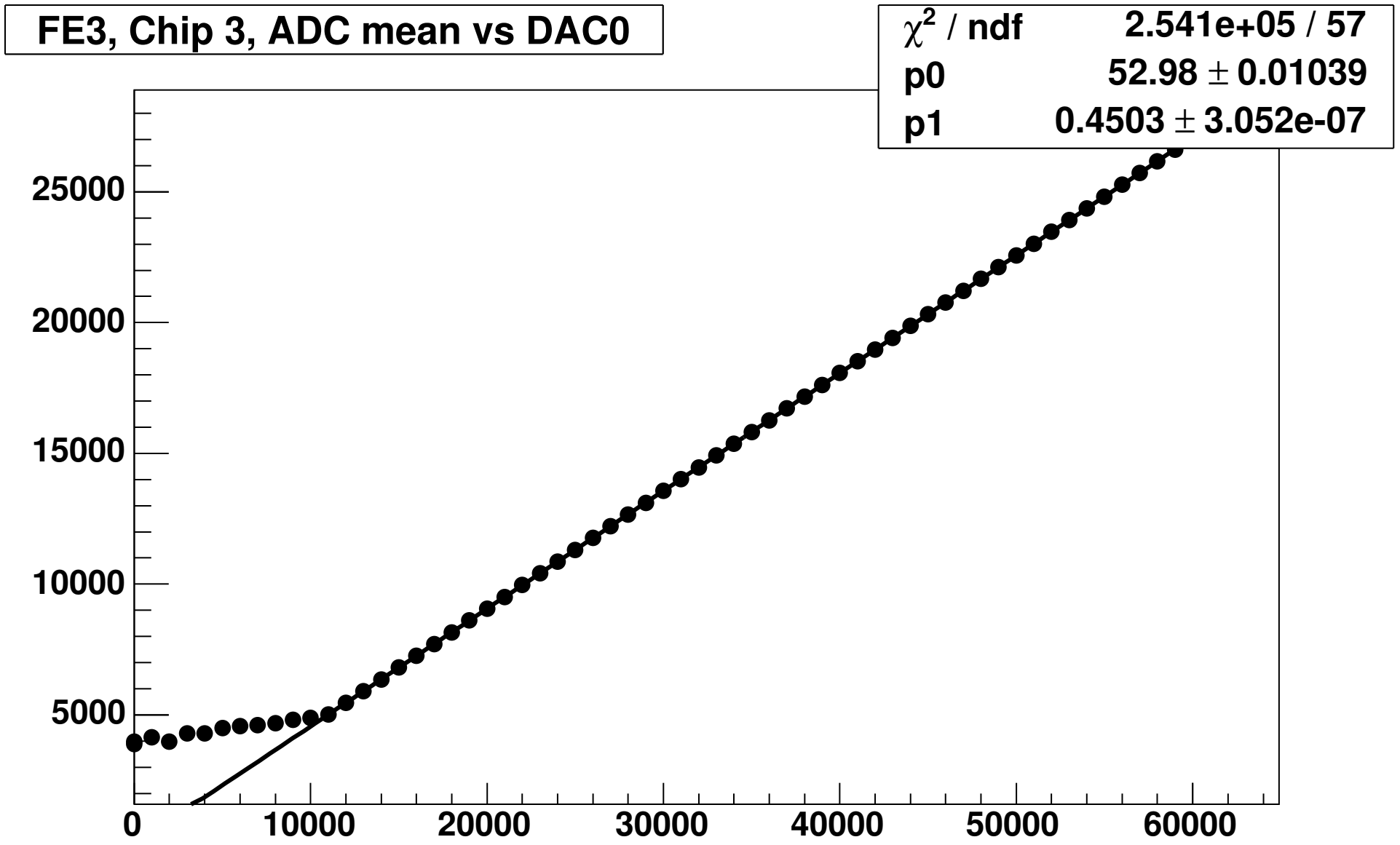
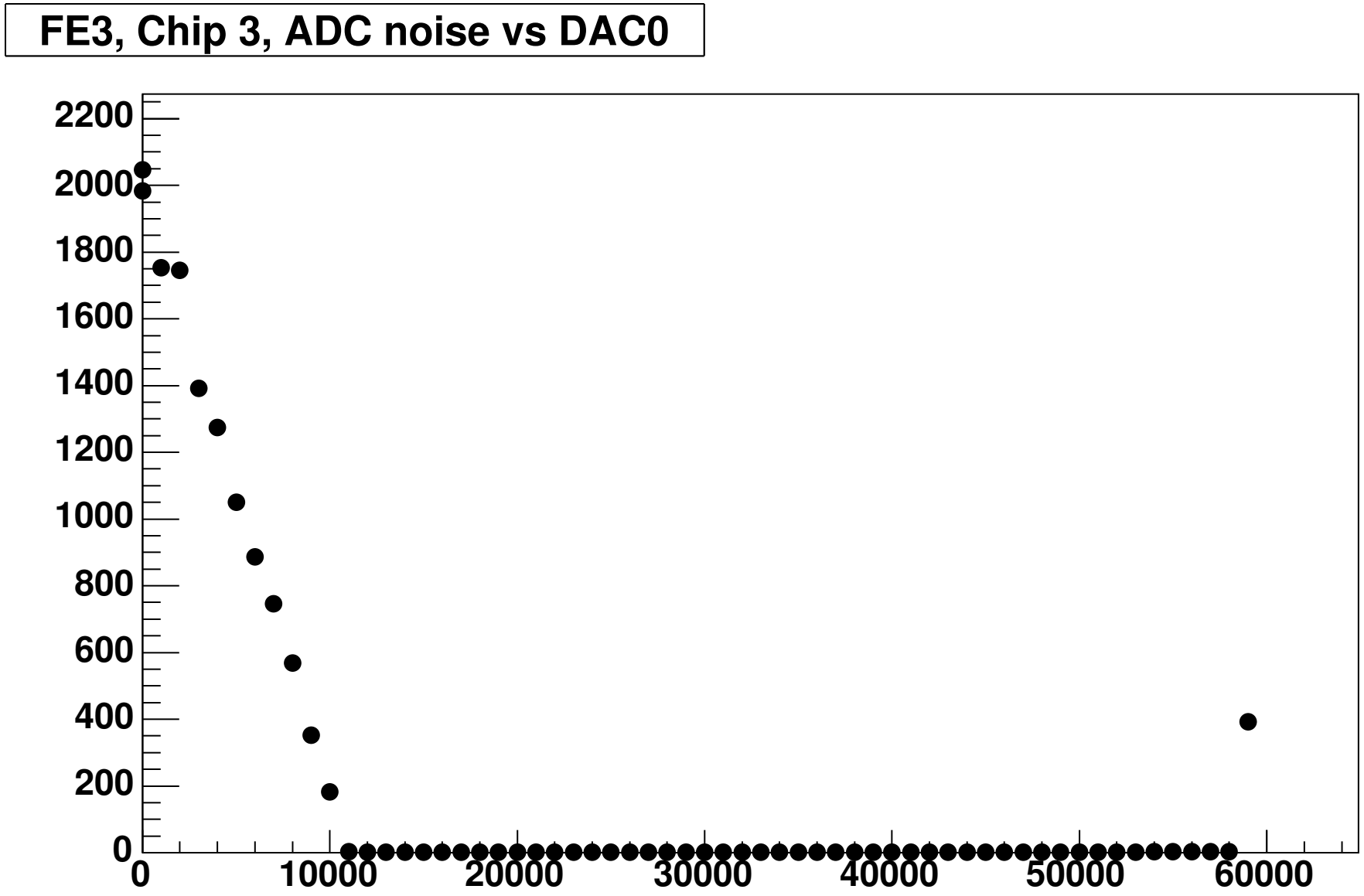
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

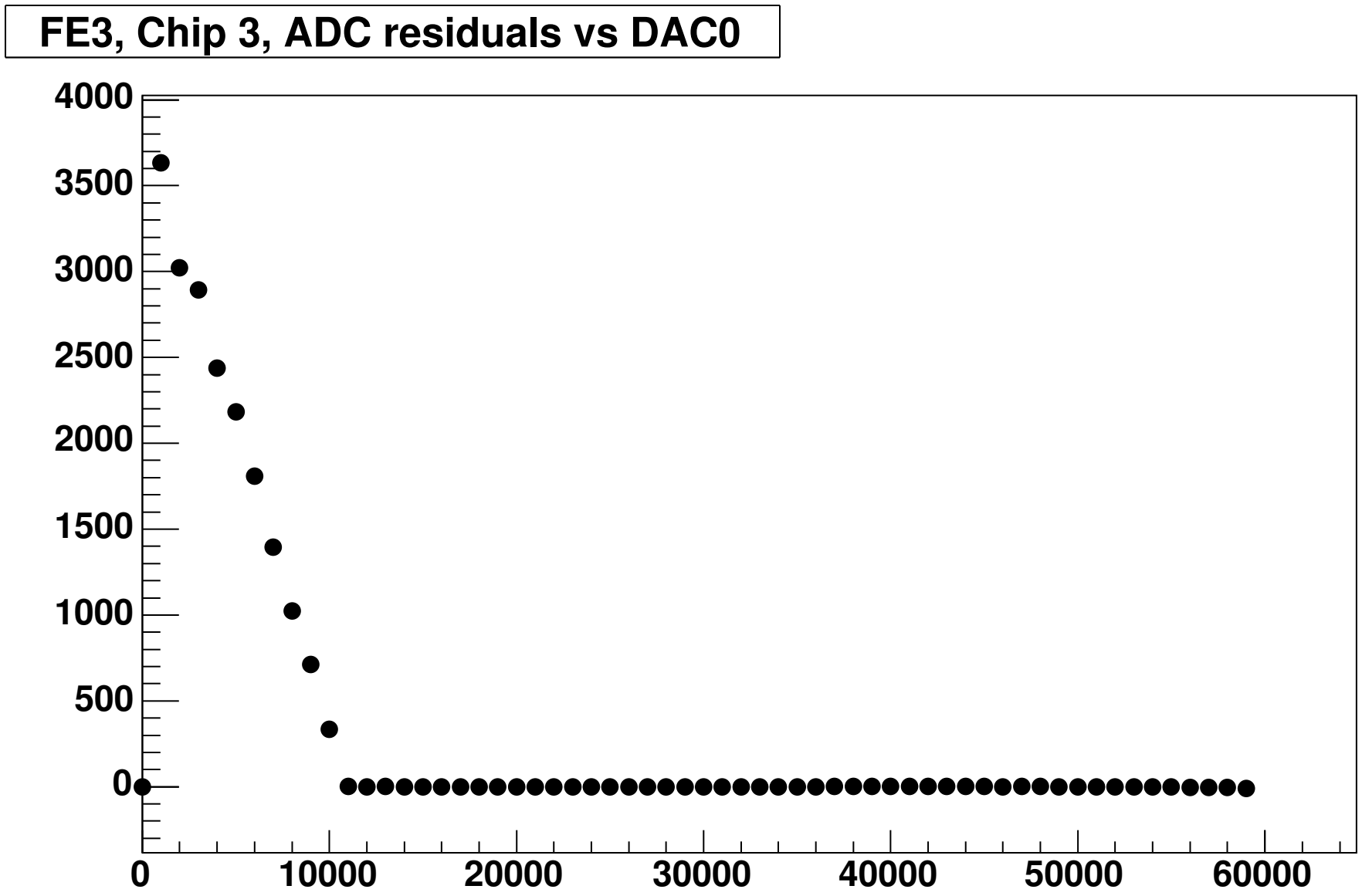

FE3, Chip 2, ADC mean vs DAC1
χ² / ndf 920.8 / 57
p0 3923 ± 7.74
p1 0.0004138 ± 0.0002229
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000

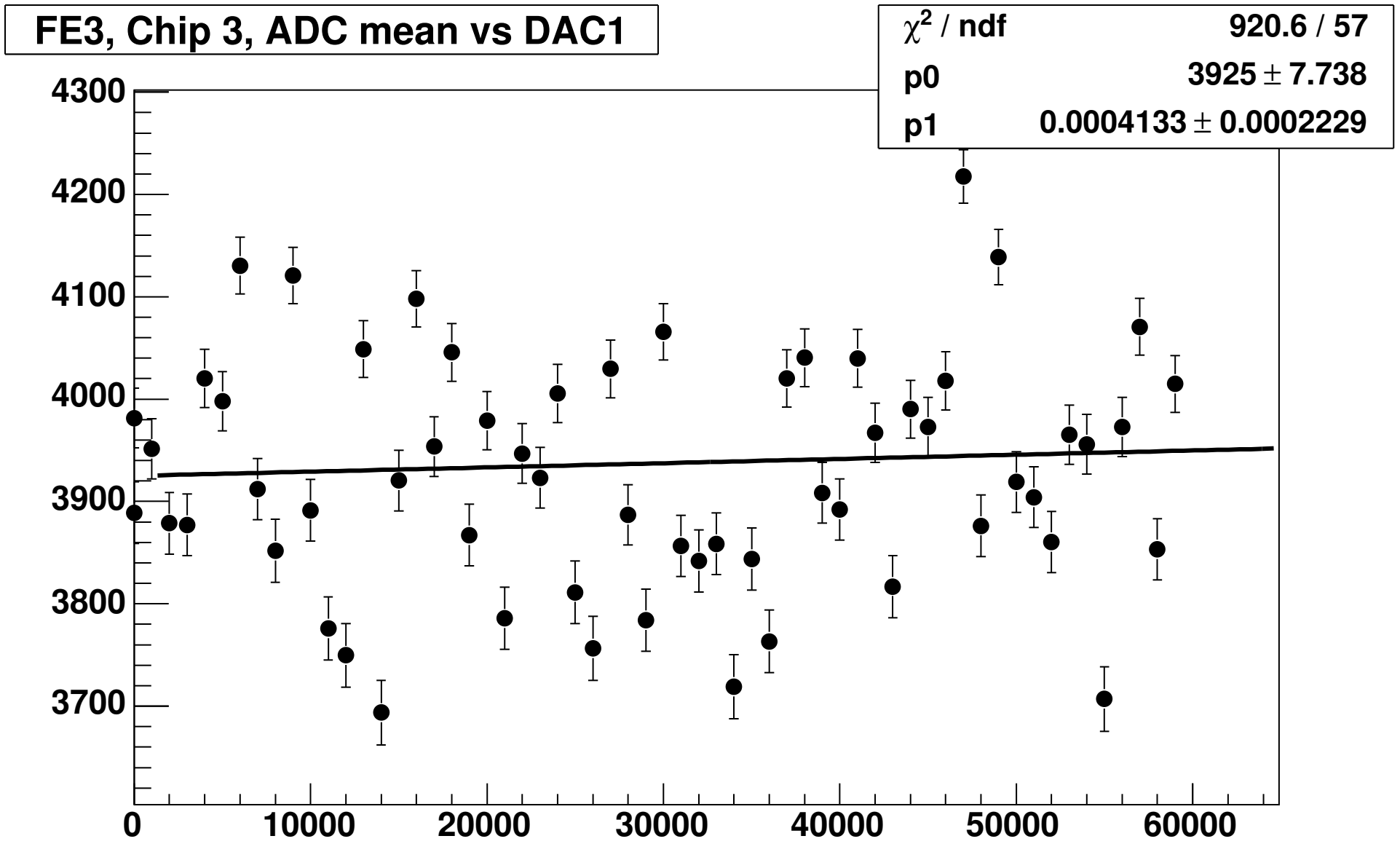

FE3, Chip 2, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000

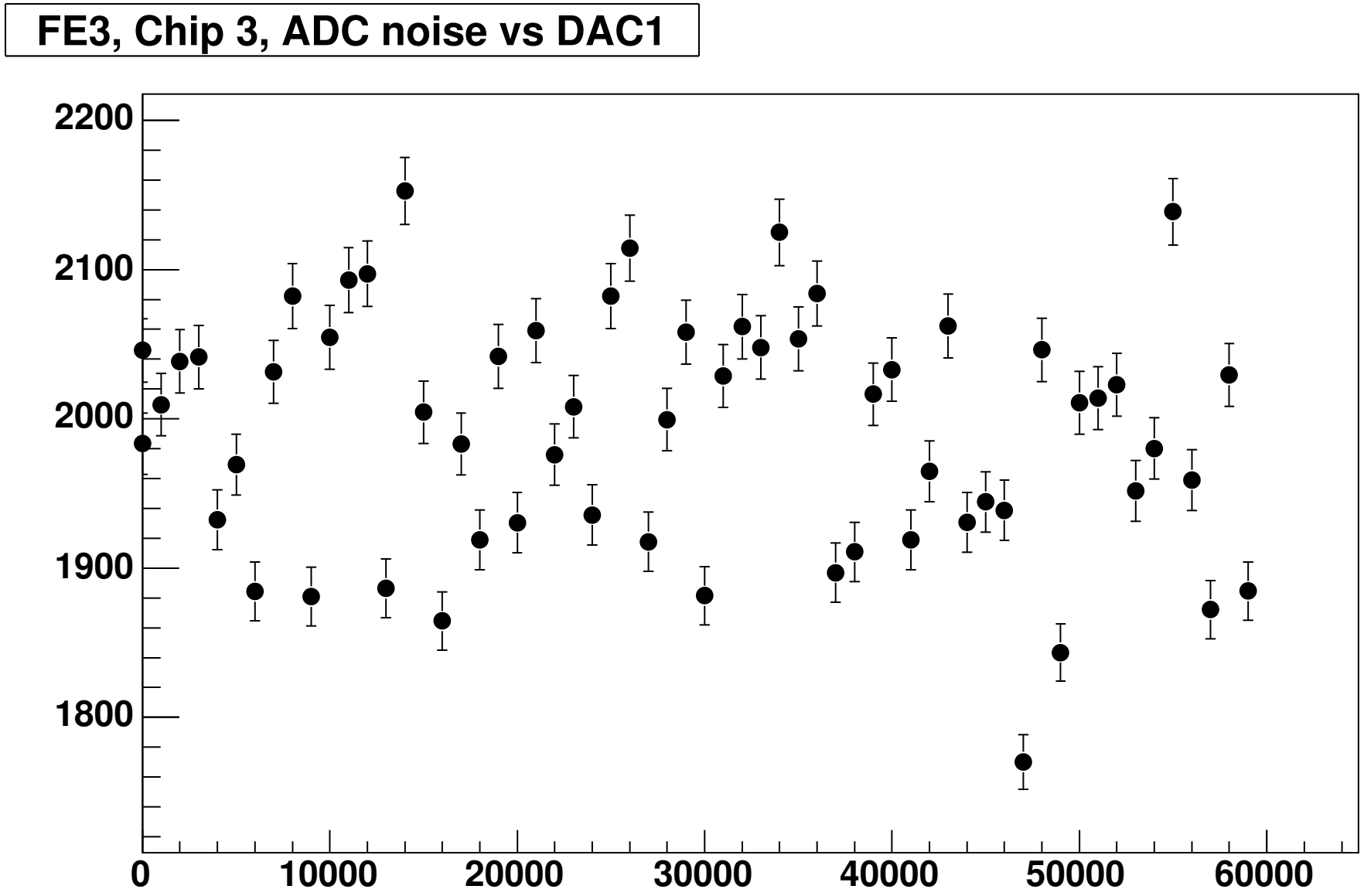

FE3, Chip 2, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

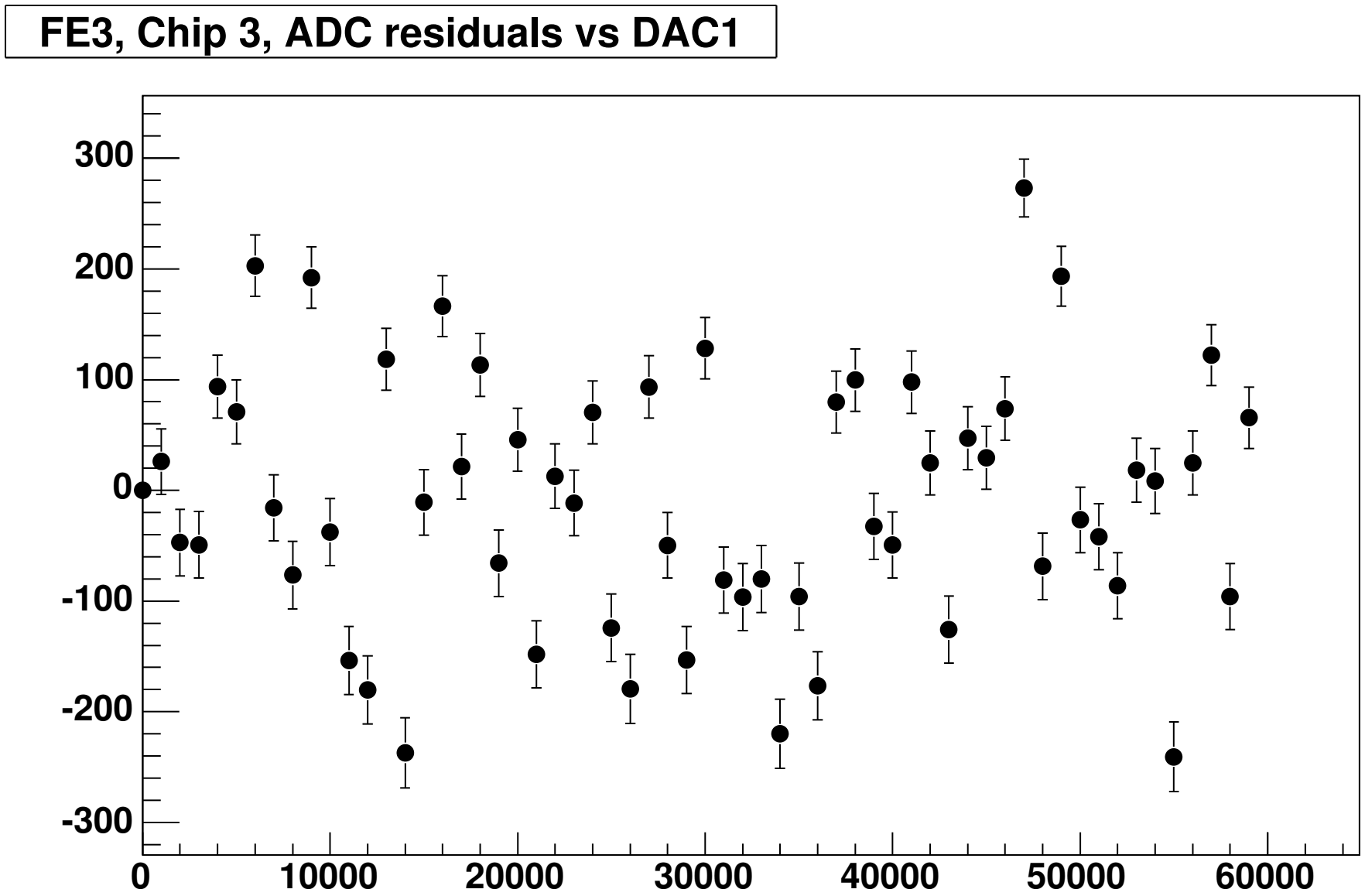

FE3, Chip 3, ADC mean vs DAC0
χ² / ndf 2.541e+05 / 57
p0 52.98 ± 0.01039
p1 0.4503 ± 3.052e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

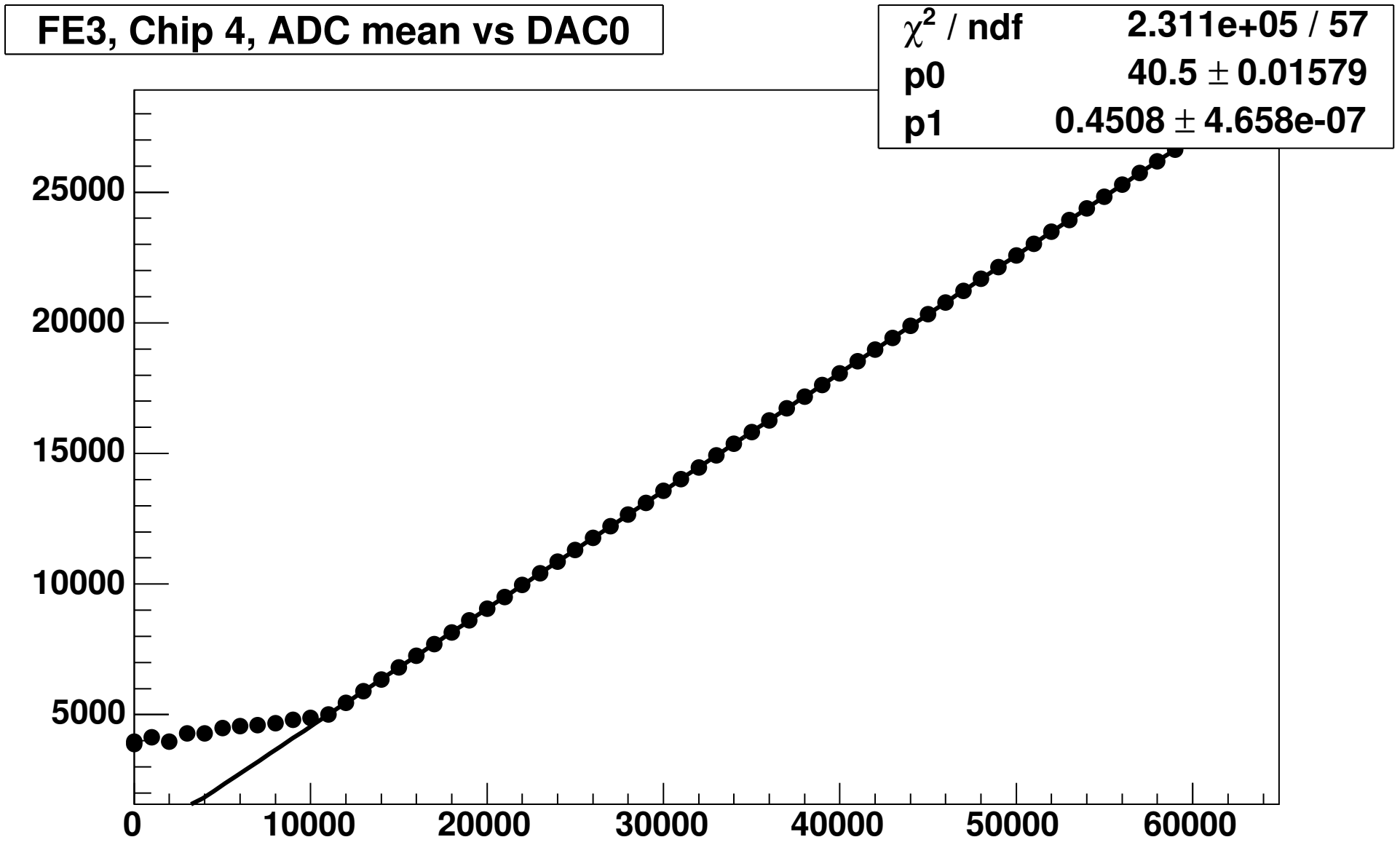

FE3, Chip 3, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

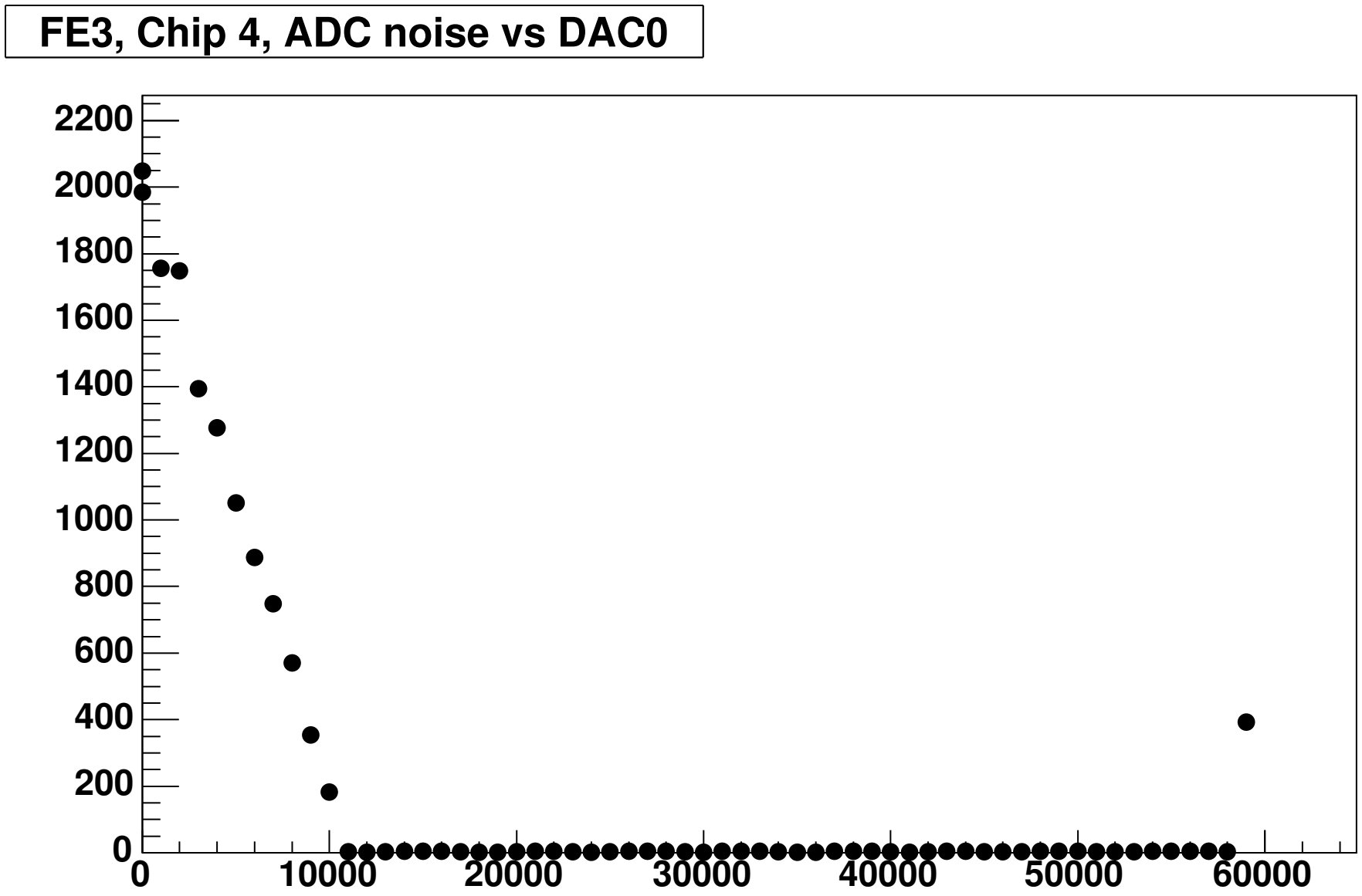

FE3, Chip 3, ADC residuals vs DAC0
4000
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

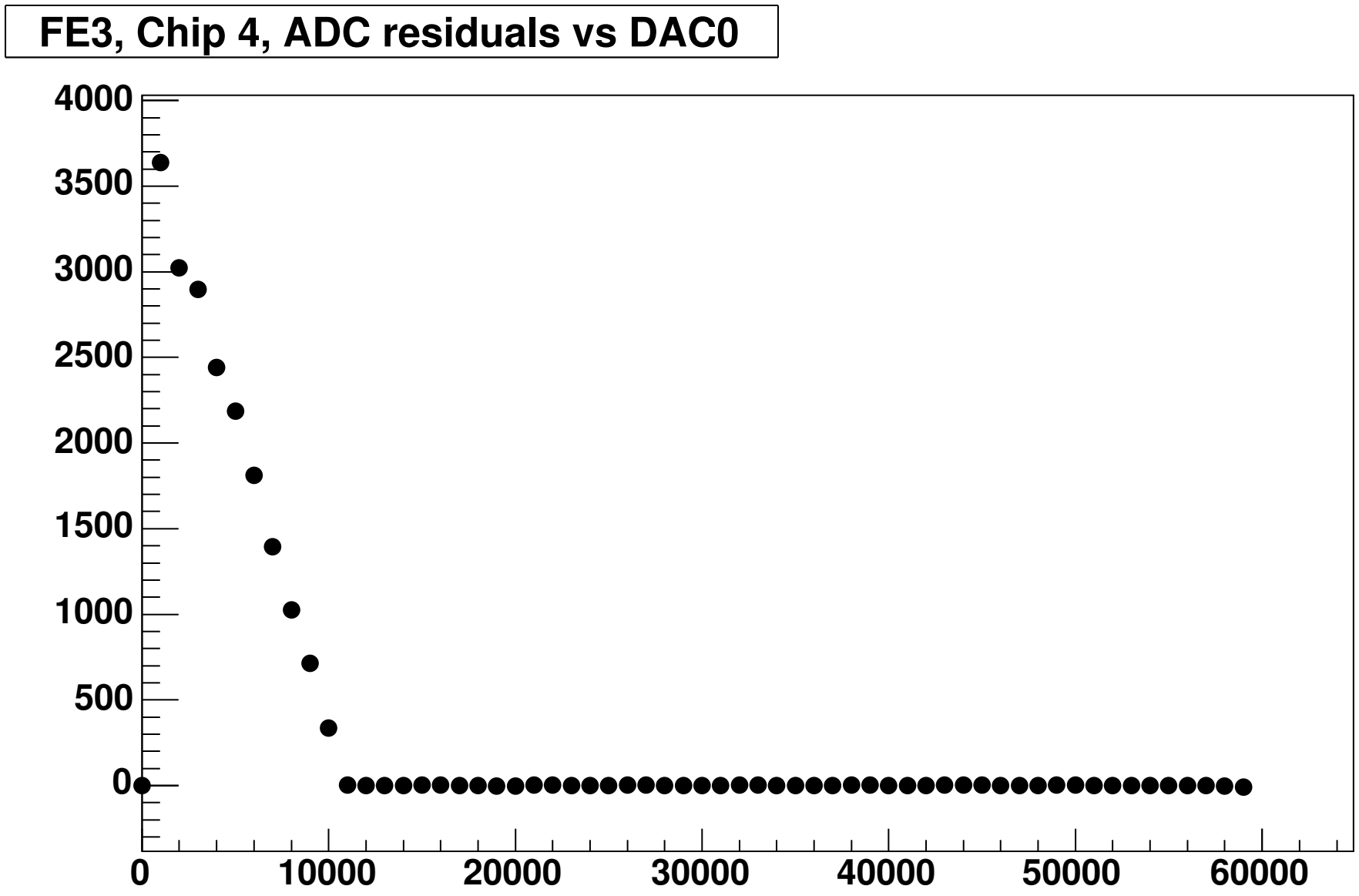

FE3, Chip 3, ADC mean vs DAC1
χ² / ndf 920.6 / 57
p0 3925 ± 7.738
p1 0.0004133 ± 0.0002229
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE3, Chip 3, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE3, Chip 3, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE3, Chip 4, ADC mean vs DAC0
χ² / ndf 2.311e+05 / 57
p0 40.5 ± 0.01579
p1 0.4508 ± 4.658e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE3, Chip 4, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE3, Chip 4, ADC residuals vs DAC0
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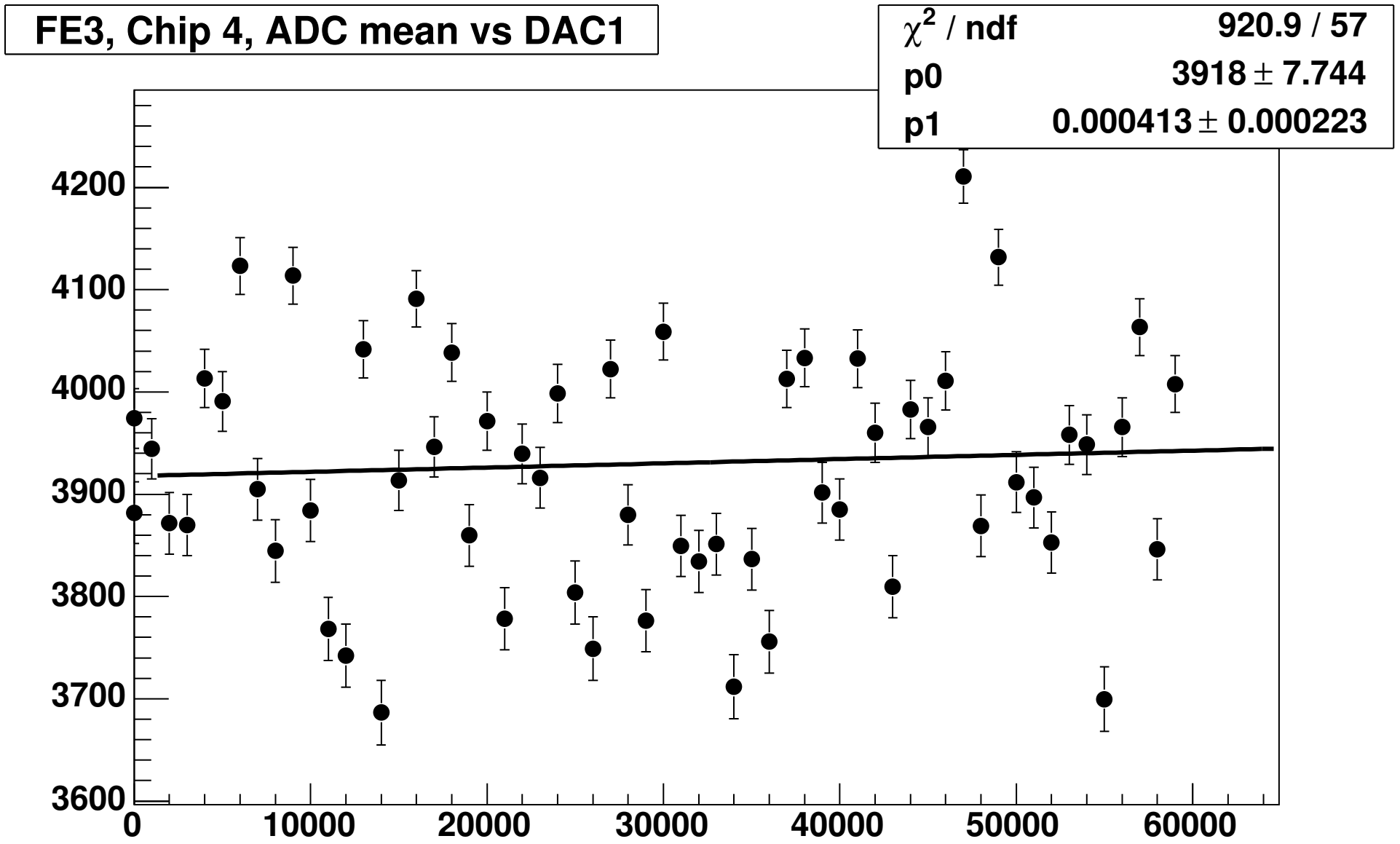
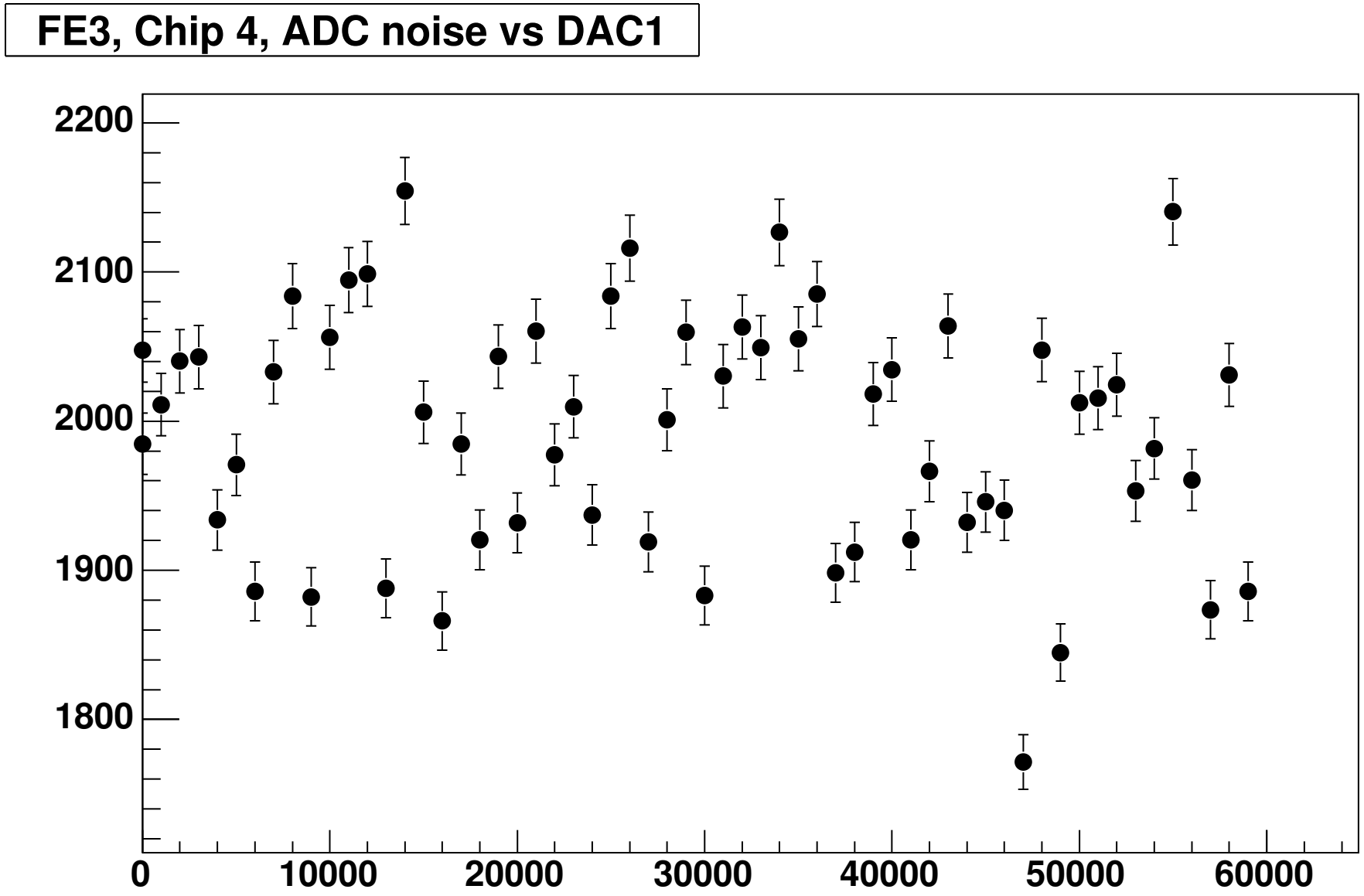
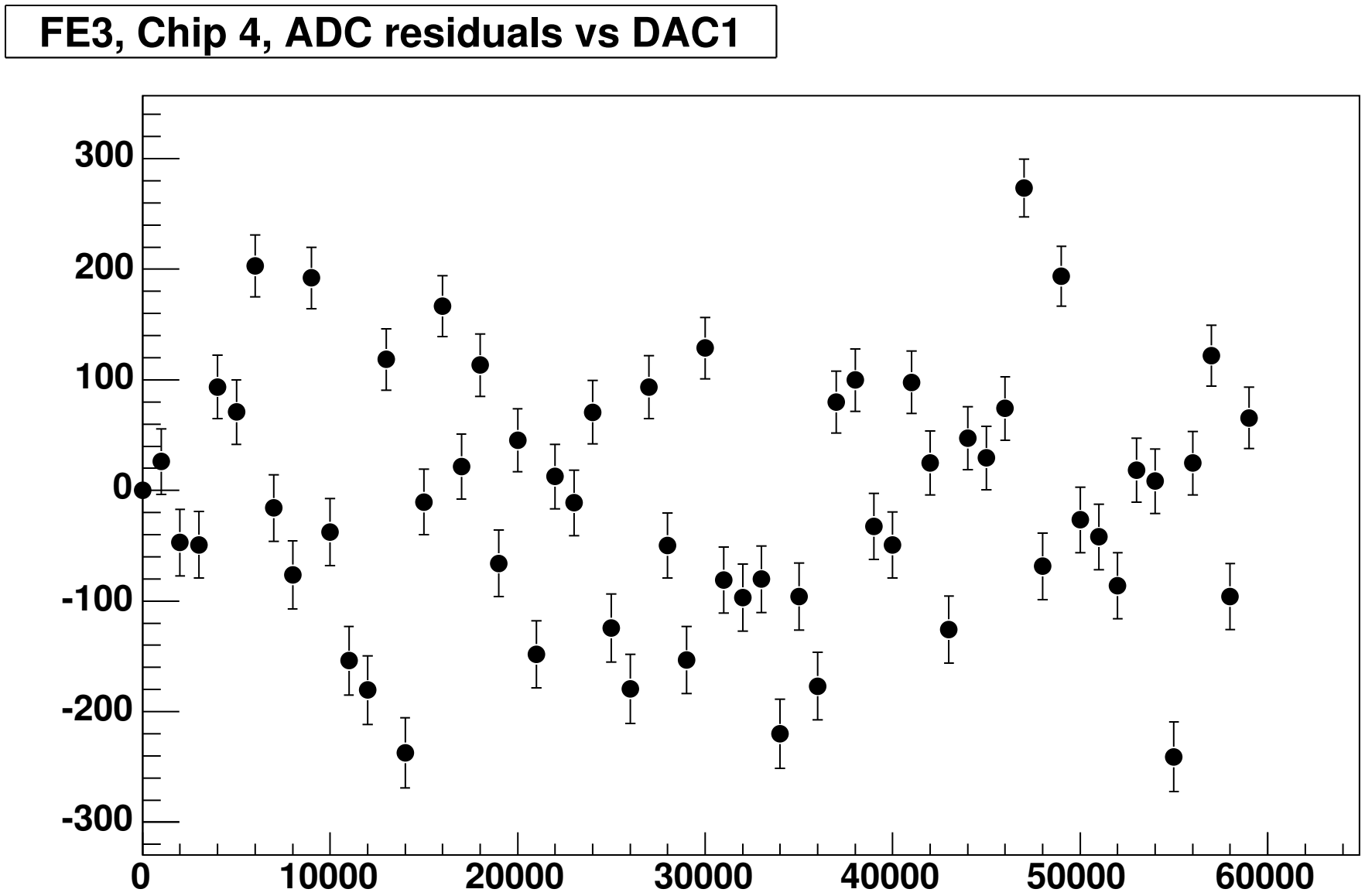
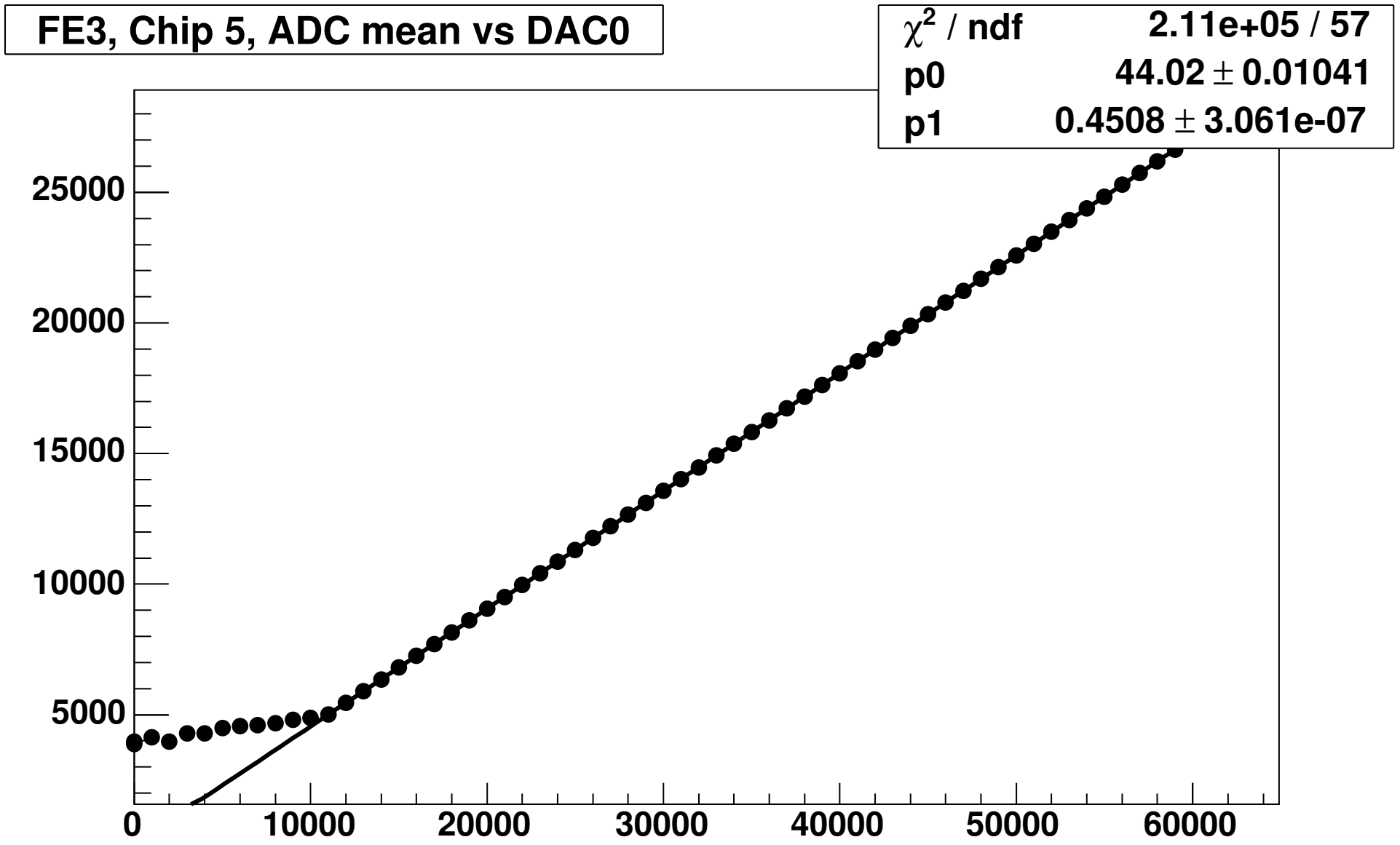
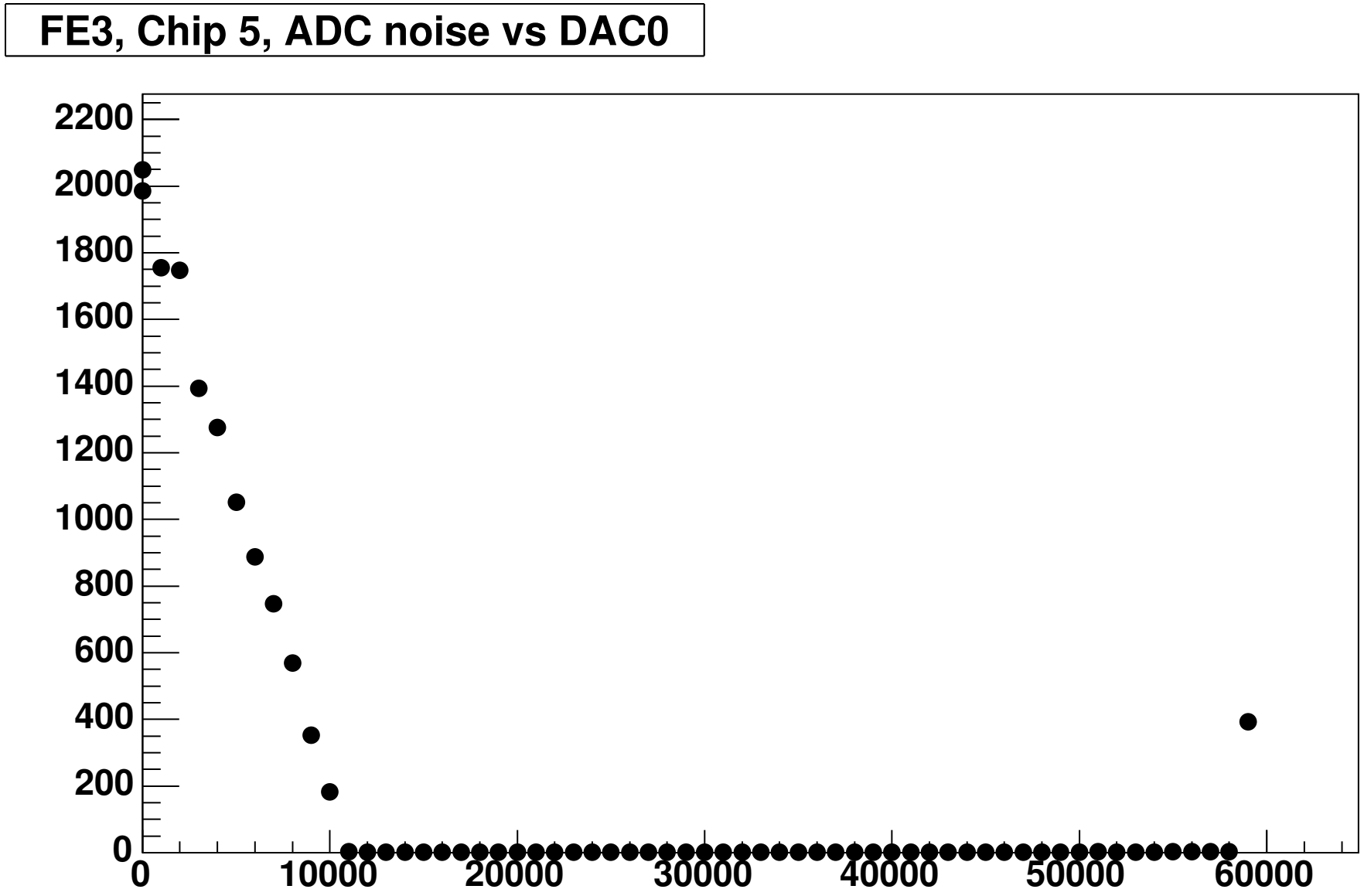
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

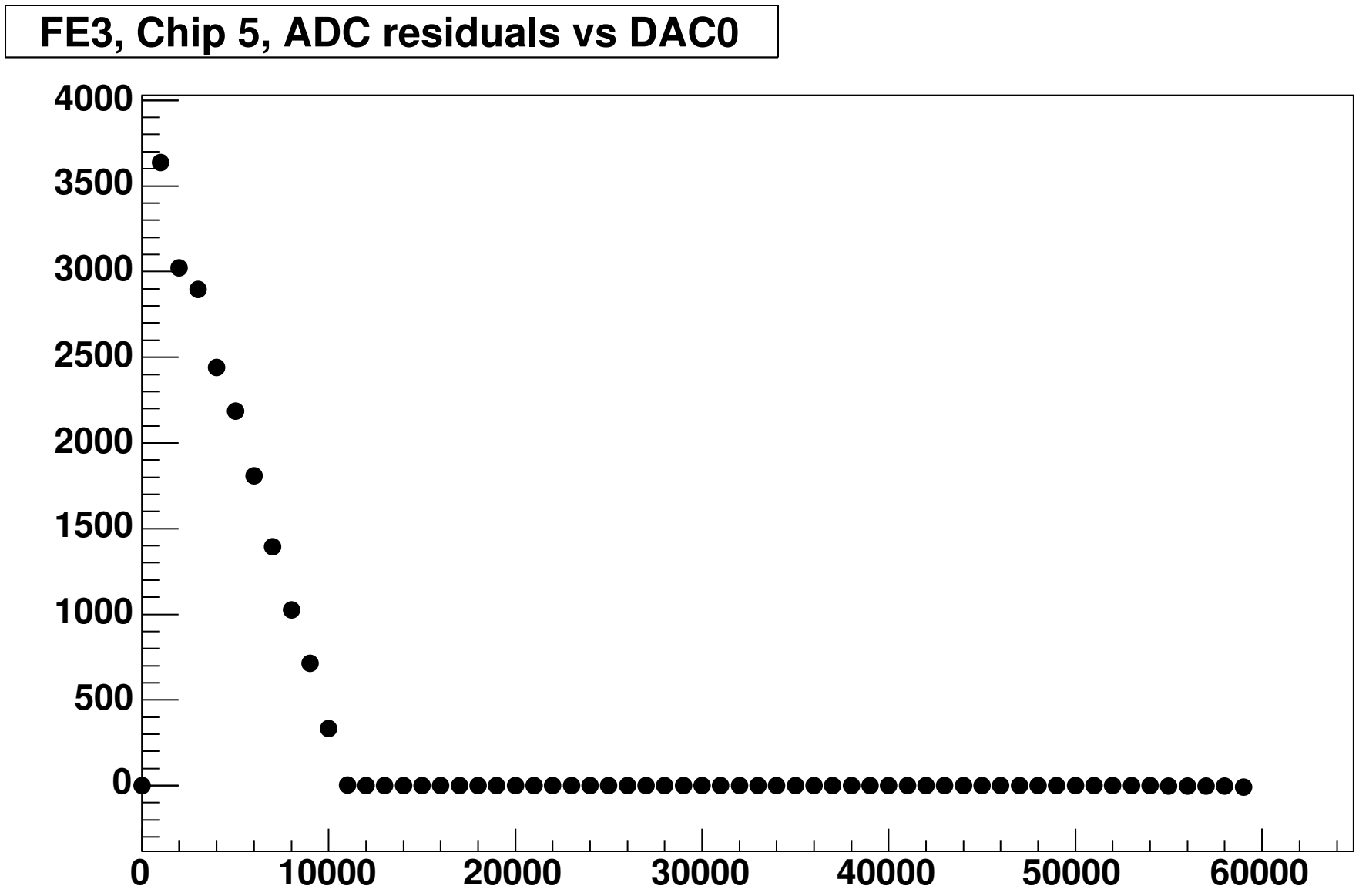

FE3, Chip 4, ADC mean vs DAC1
χ² / ndf 920.9 / 57
p0 3918 ± 7.744
p1 0.000413 ± 0.000223
4200
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000

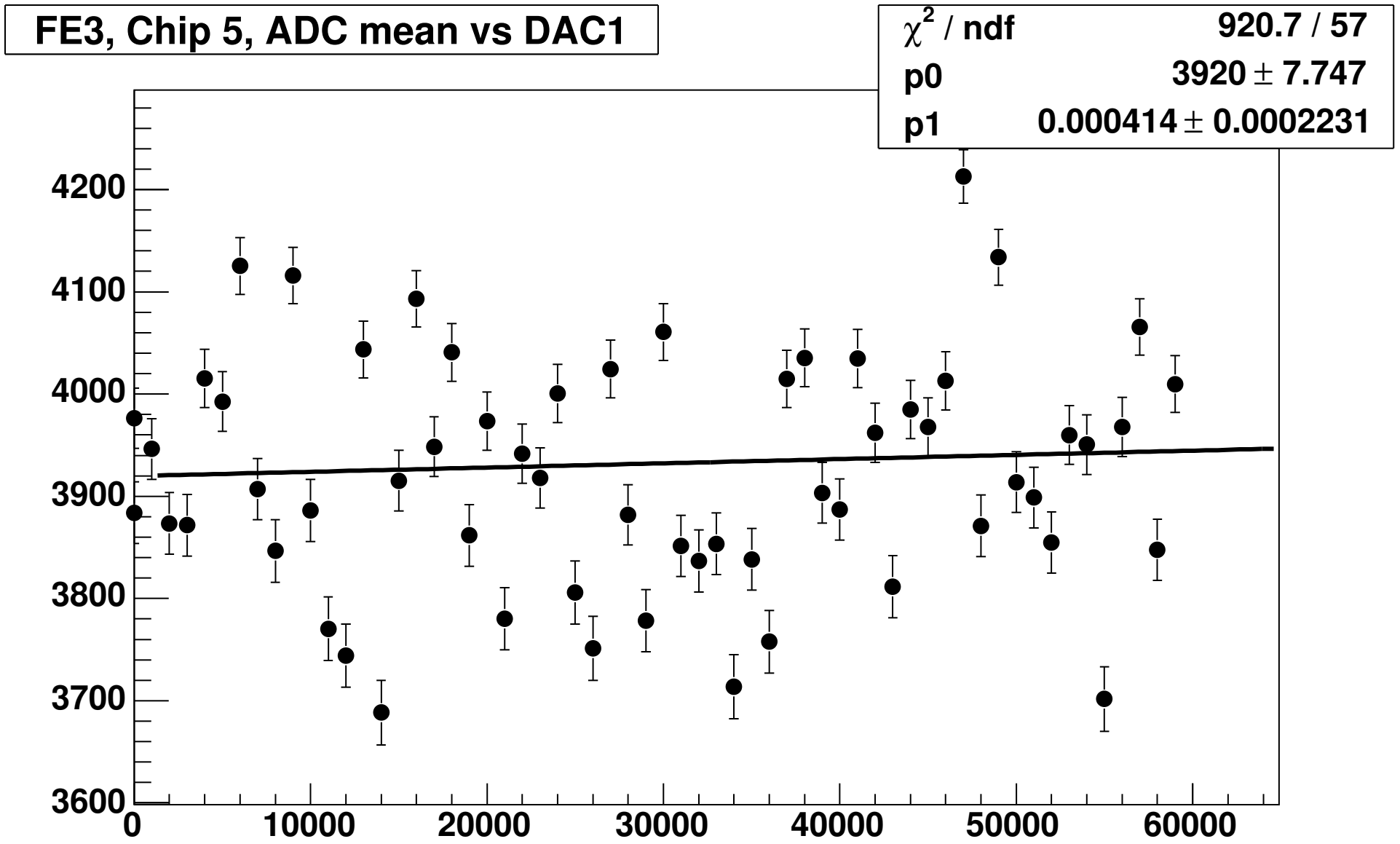

FE3, Chip 4, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000

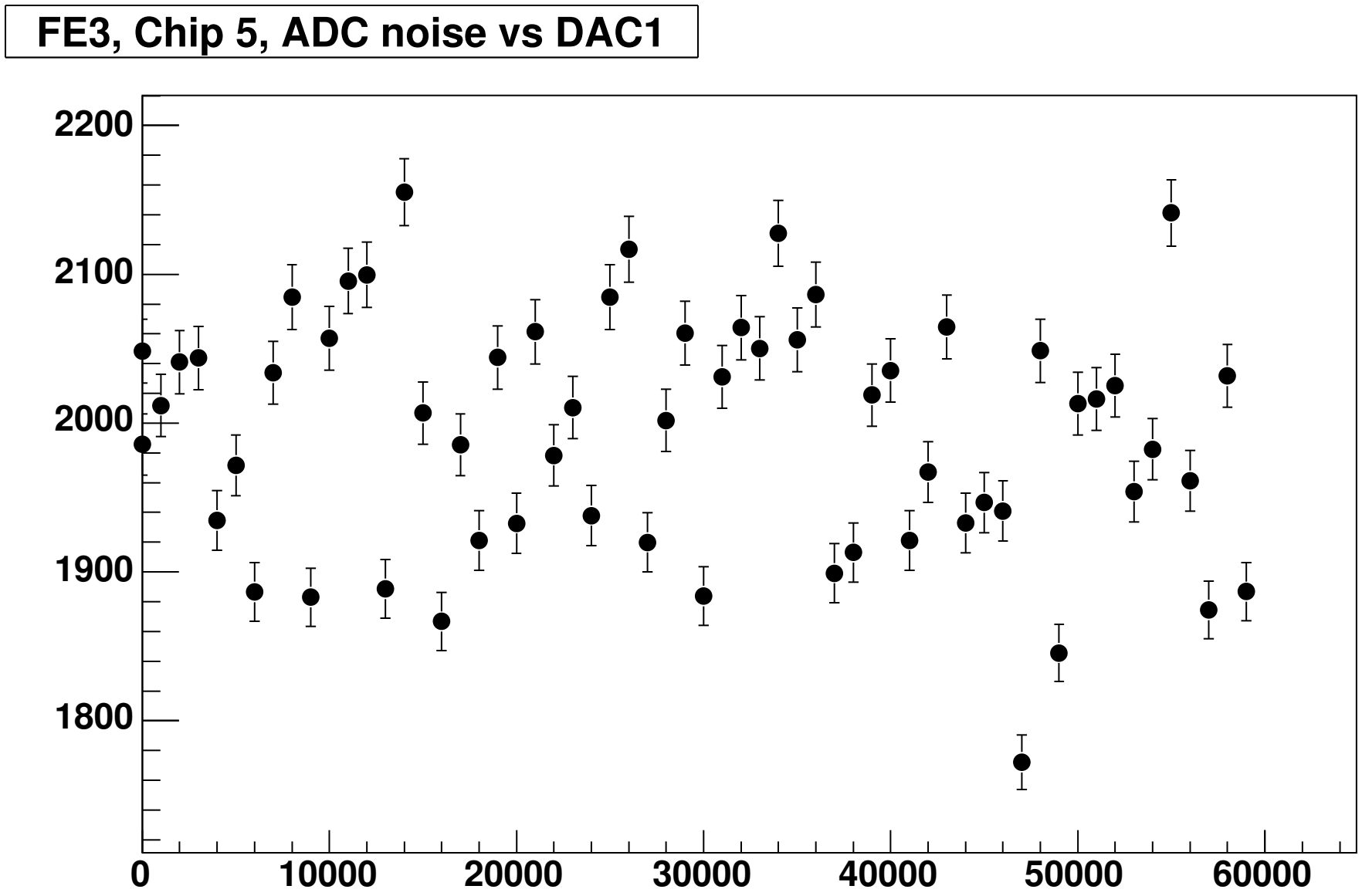

FE3, Chip 4, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

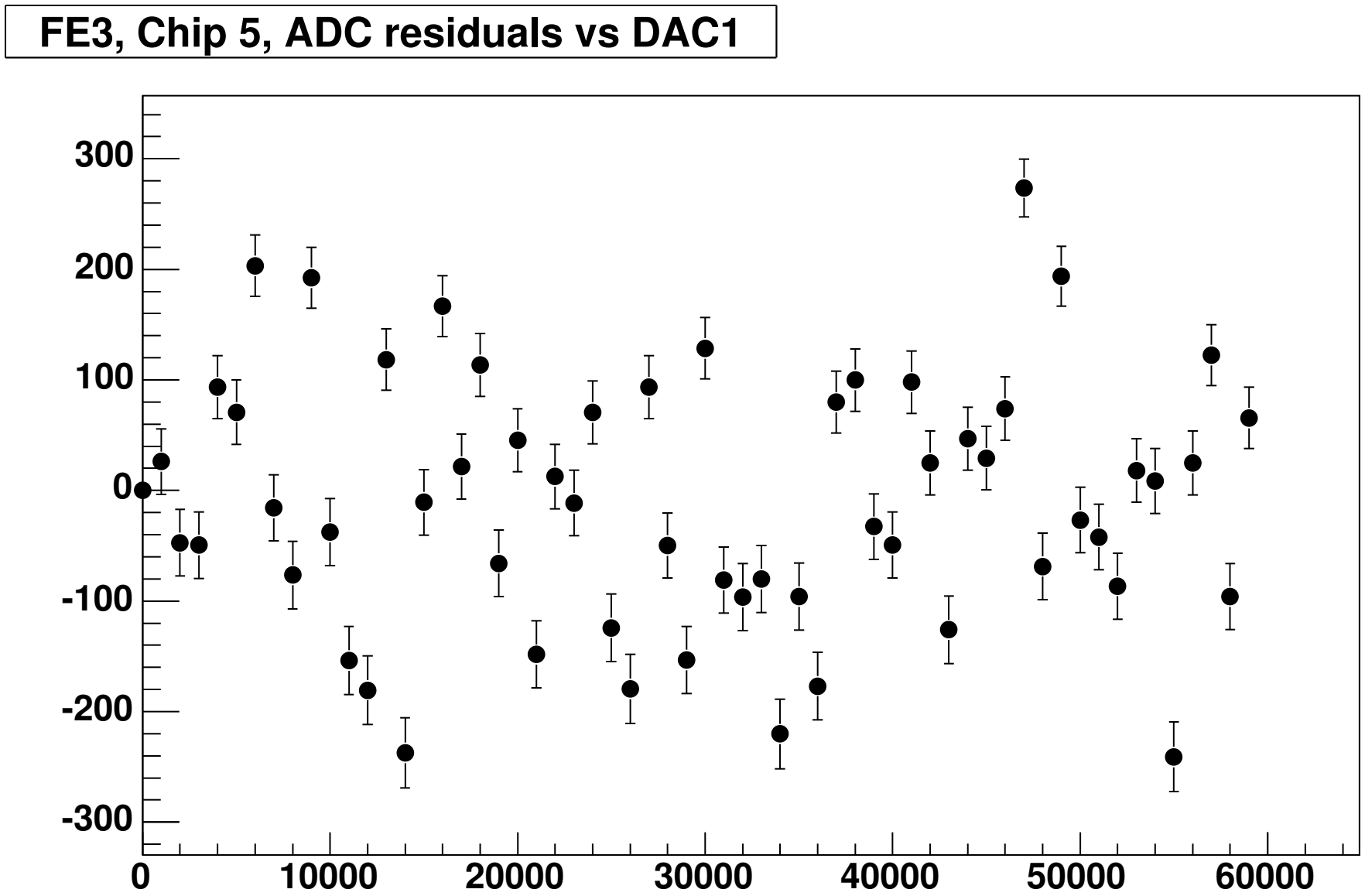

FE3, Chip 5, ADC mean vs DAC0
χ² / ndf 2.11e+05 / 57
p0 44.02 ± 0.01041
p1 0.4508 ± 3.061e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

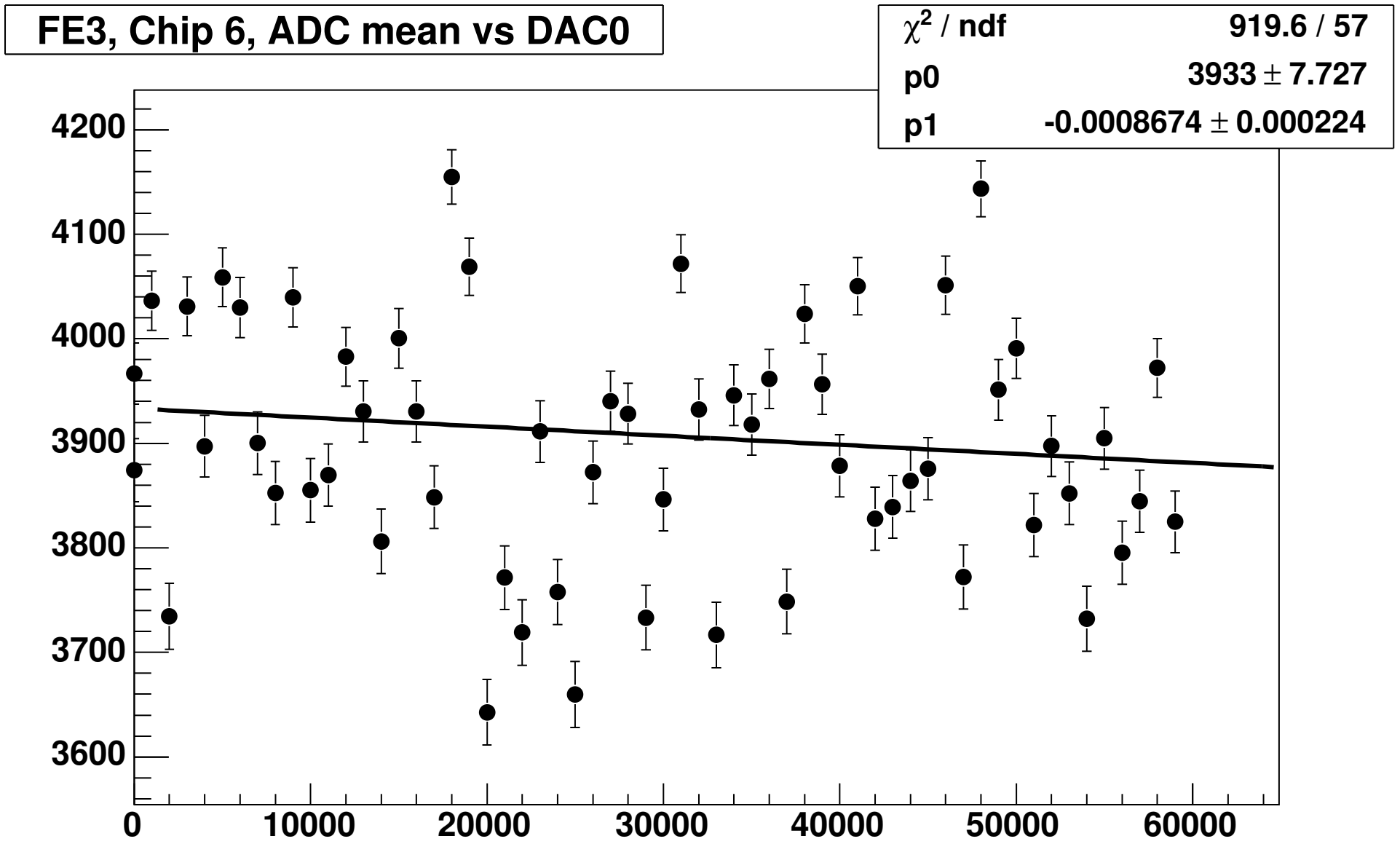

FE3, Chip 5, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

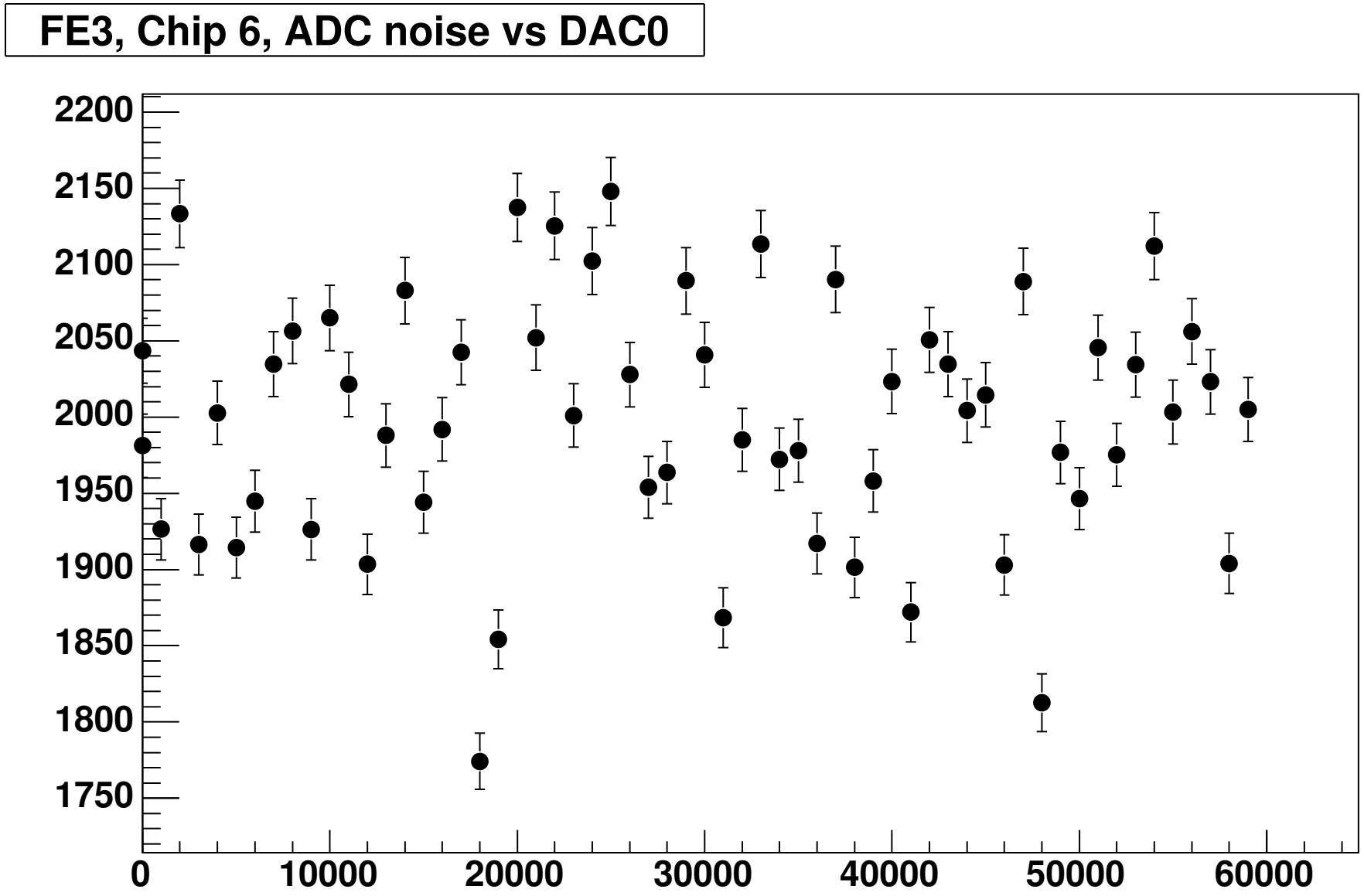

FE3, Chip 5, ADC residuals vs DAC0
4000
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

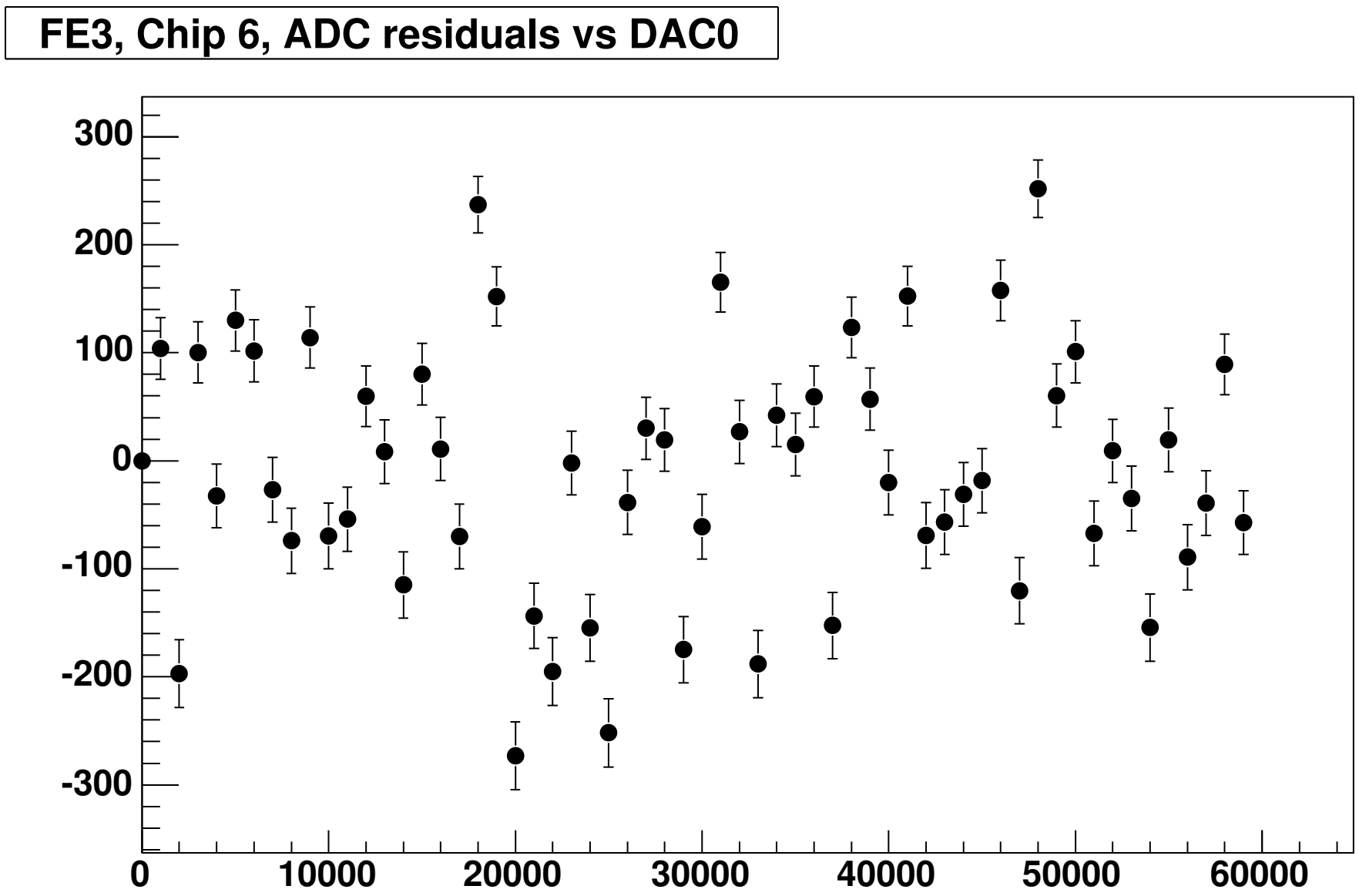

FE3, Chip 5, ADC mean vs DAC1
χ² / ndf 920.7 / 57
p0 3920 ± 7.747
p1 0.000414 ± 0.0002231
4200
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000

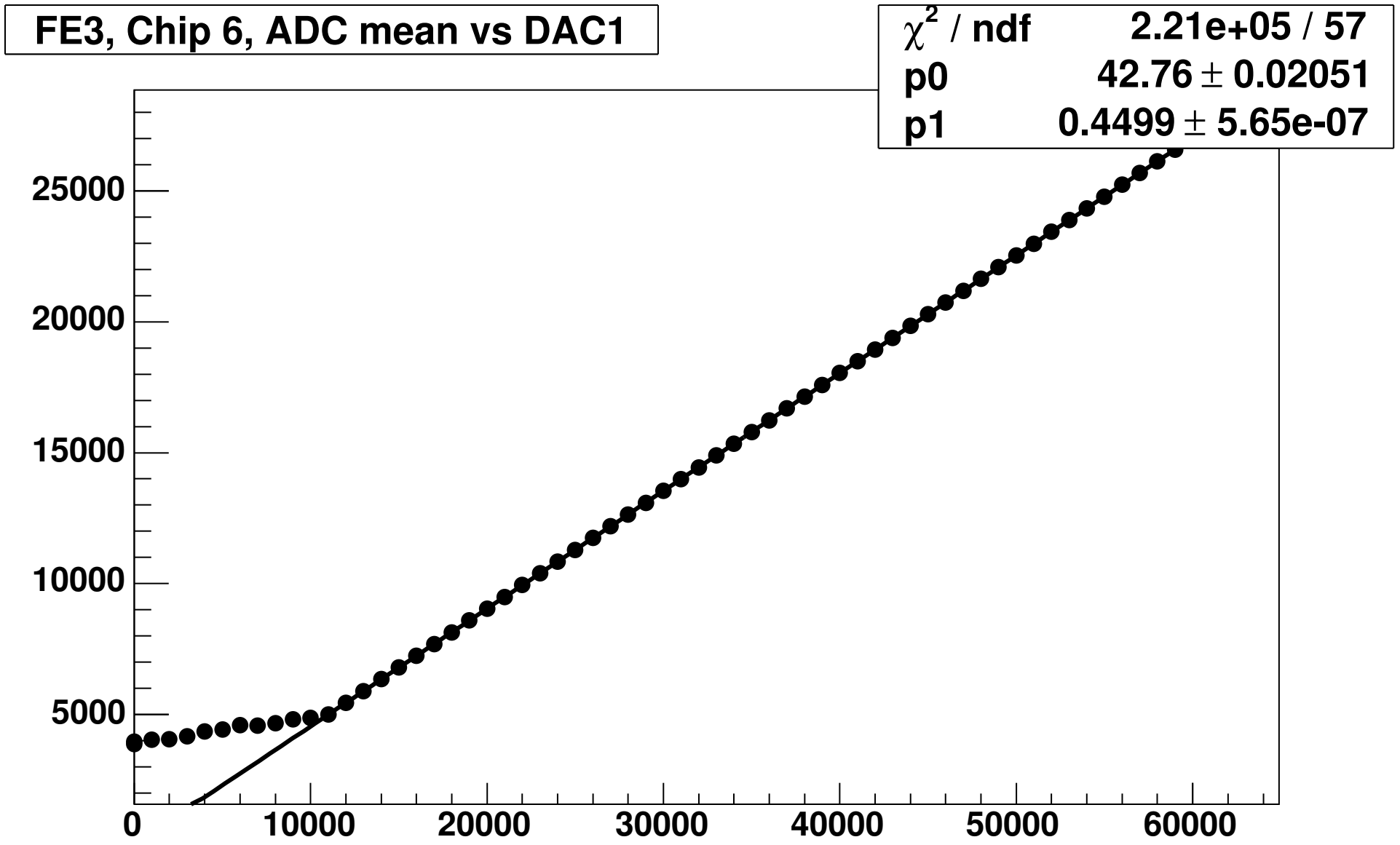

FE3, Chip 5, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000

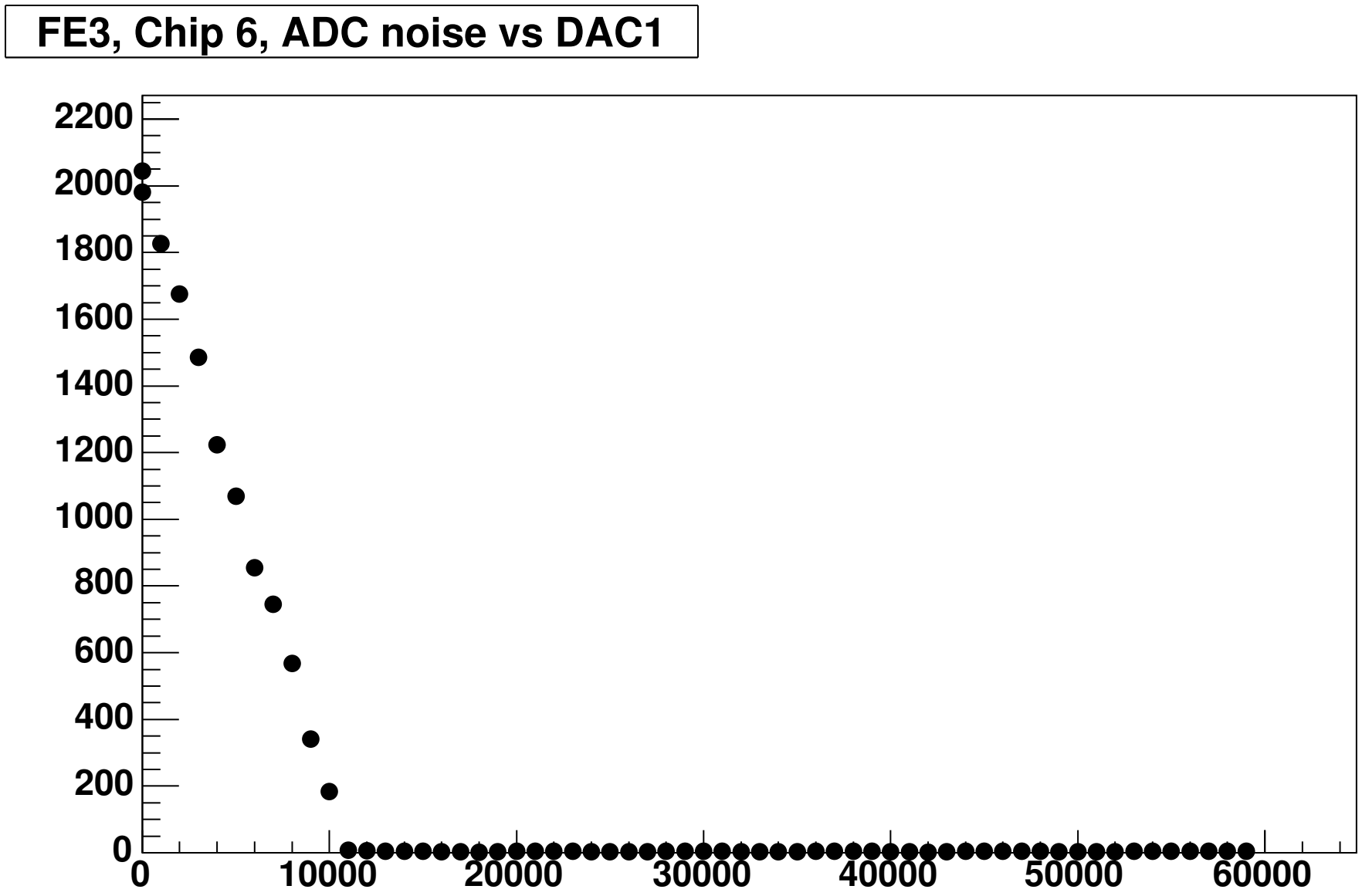

FE3, Chip 5, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

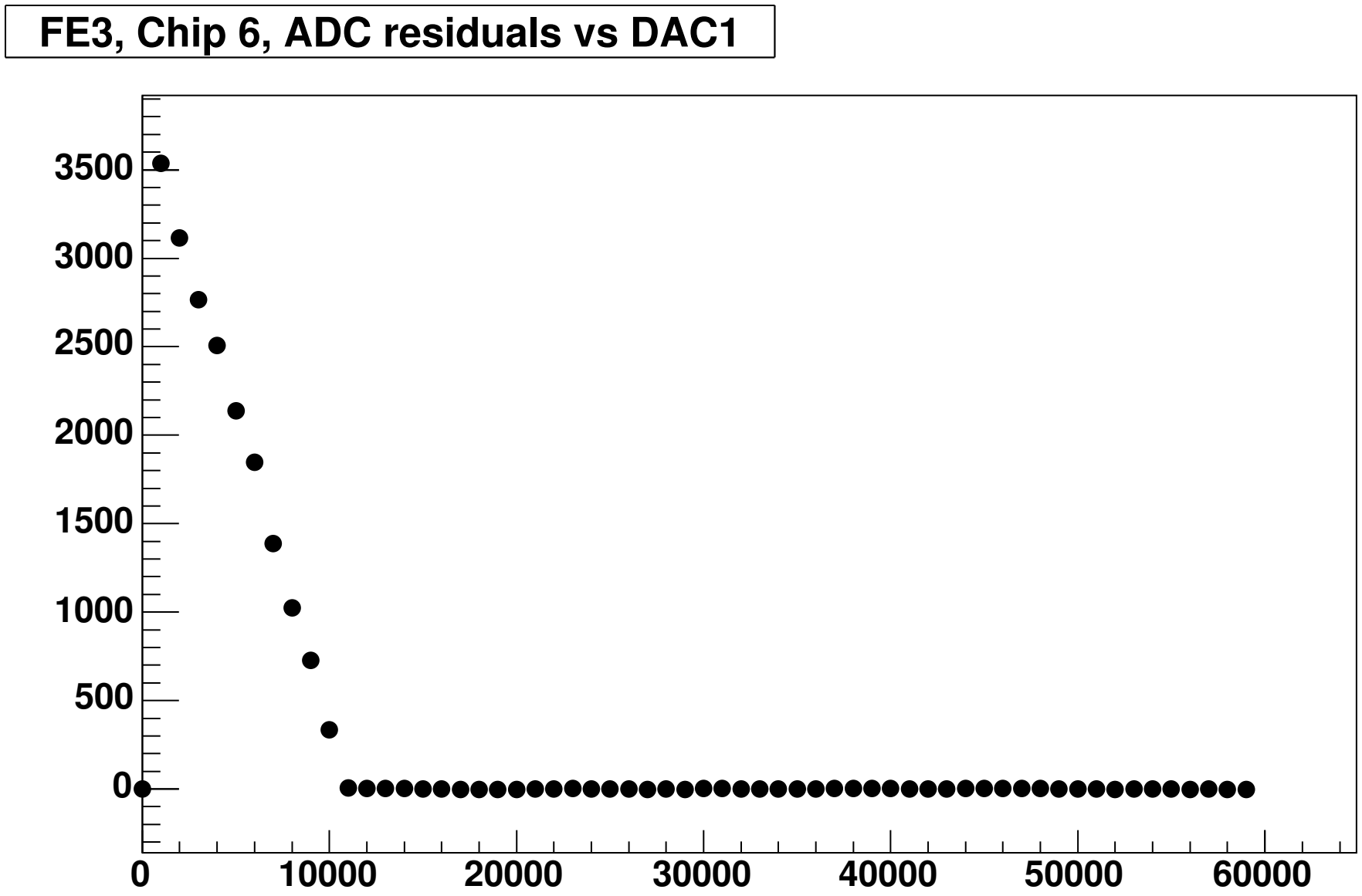

FE3, Chip 6, ADC mean vs DAC0
χ² / ndf 919.6 / 57
p0 3933 ± 7.727
p1 -0.0008674 ± 0.000224
4200
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000

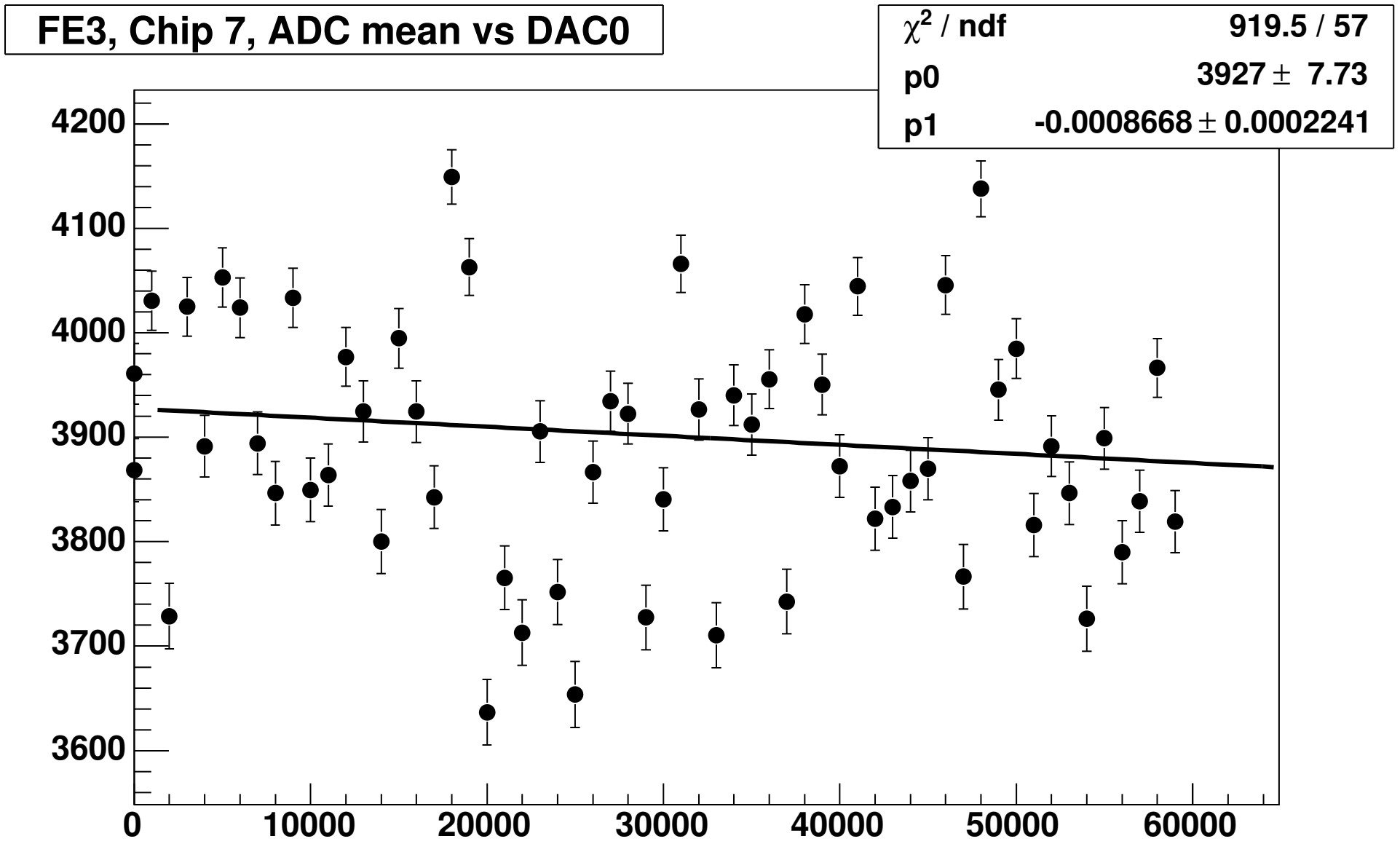

FE3, Chip 6, ADC noise vs DAC0
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
60000

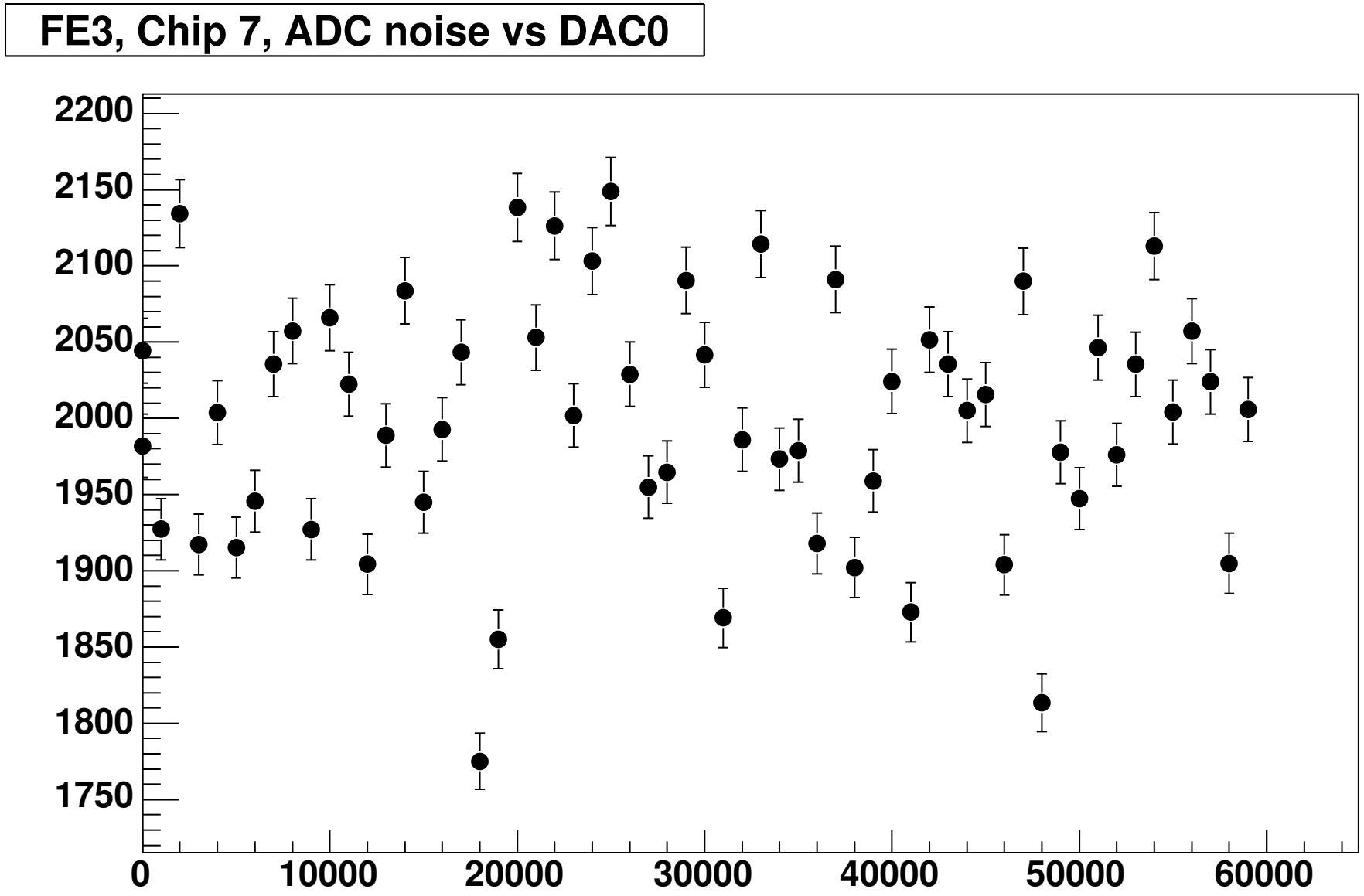

FE3, Chip 6, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE3, Chip 6, ADC mean vs DAC1
χ² / ndf 2.21e+05 / 57
p0 42.76 ± 0.02051
p1 0.4499 ± 5.65e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE3, Chip 6, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE3, Chip 6, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE3, Chip 7, ADC mean vs DAC0
χ² / ndf 919.5 / 57
p0 3927 ± 7.73
p1 -0.0008668 ± 0.0002241
4200
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE3, Chip 7, ADC noise vs DAC0
2200
2150
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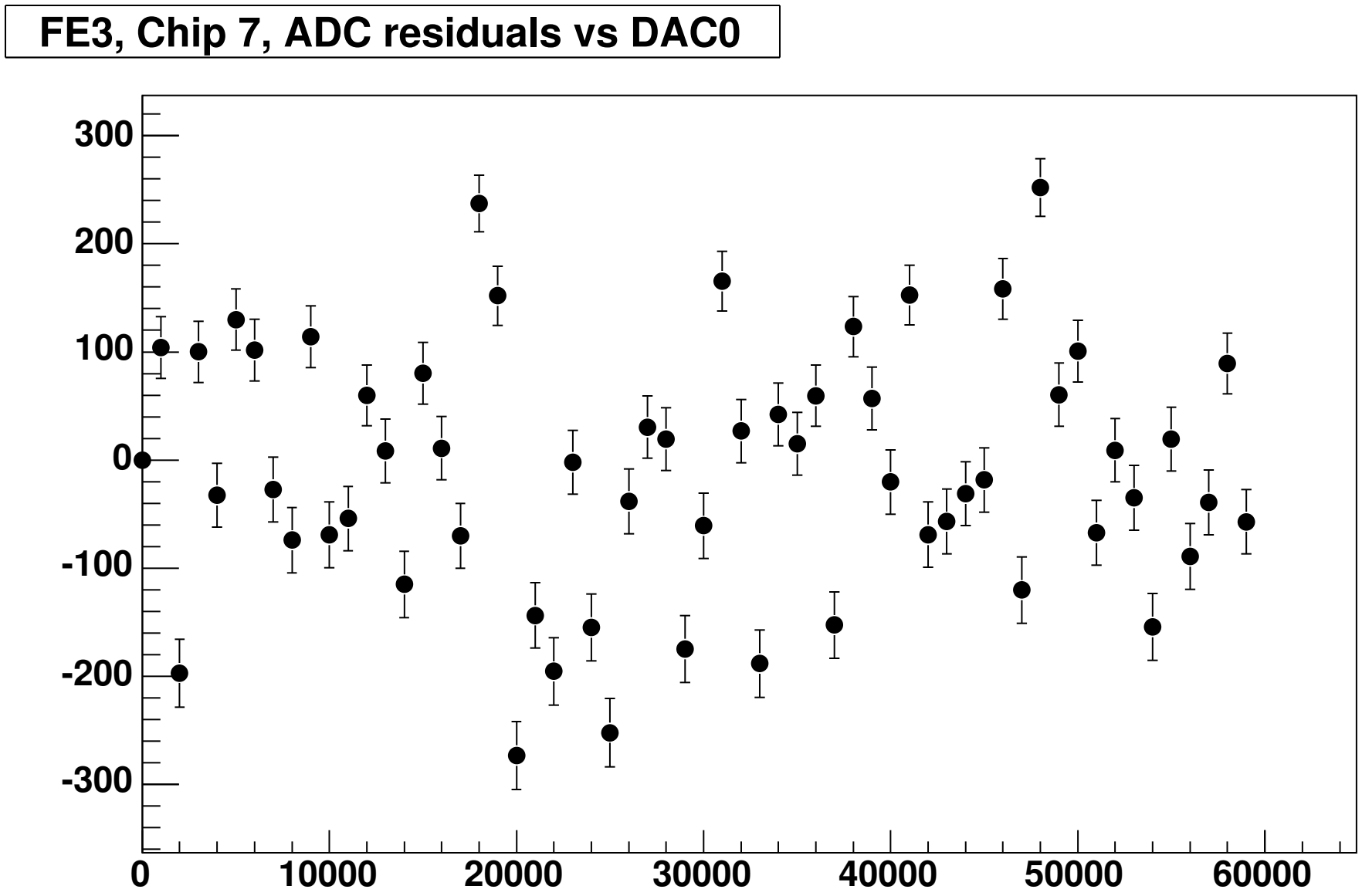
FE3, Chip 7, ADC residuals vs DAC0
300
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-100
-200
-300
0
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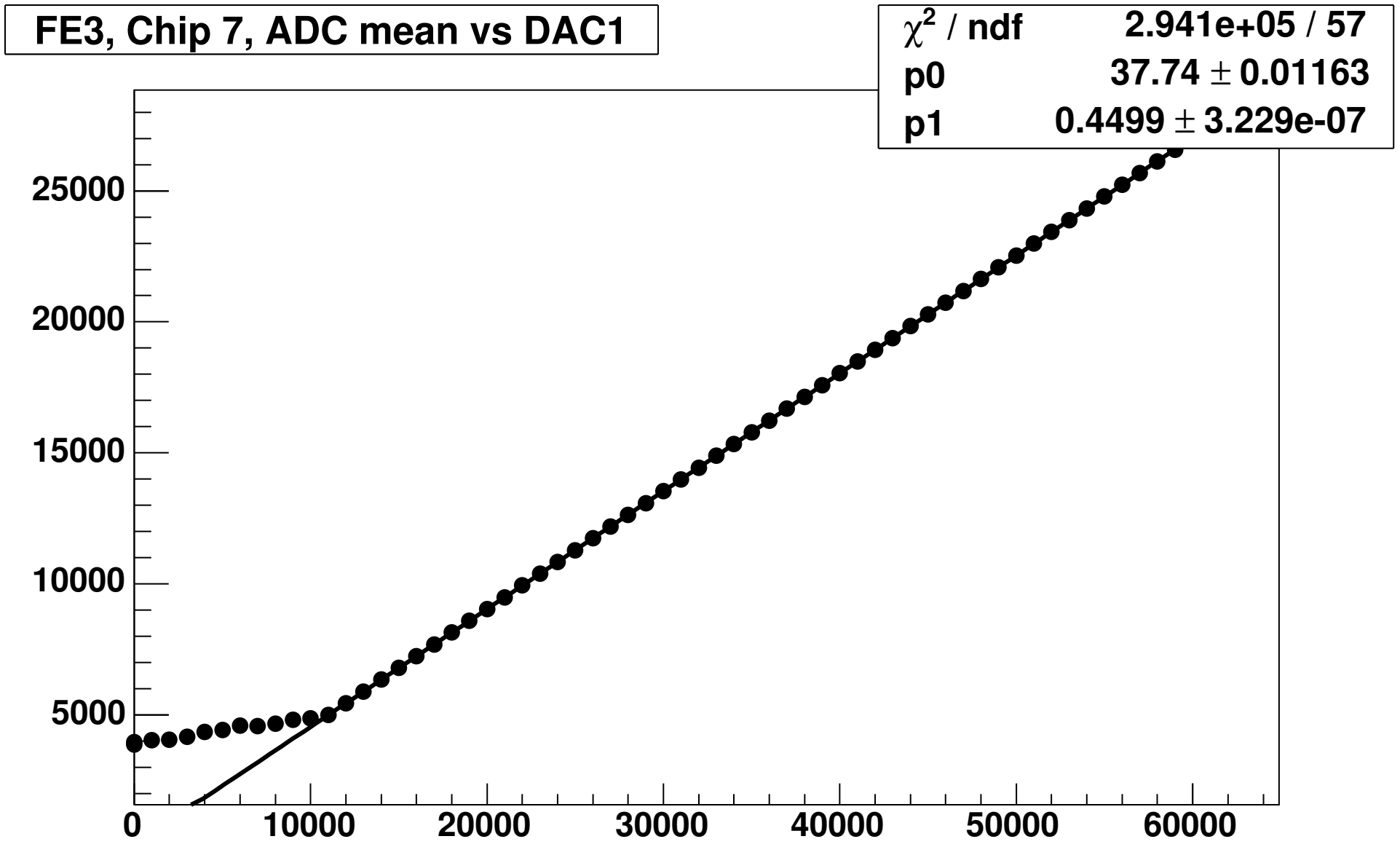
60000


FE3, Chip 7, ADC mean vs DAC1
χ² / ndf 2.941e+05 / 57
p0 37.74 ± 0.01163
p1 0.4499 ± 3.229e-07
25000
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0
10000
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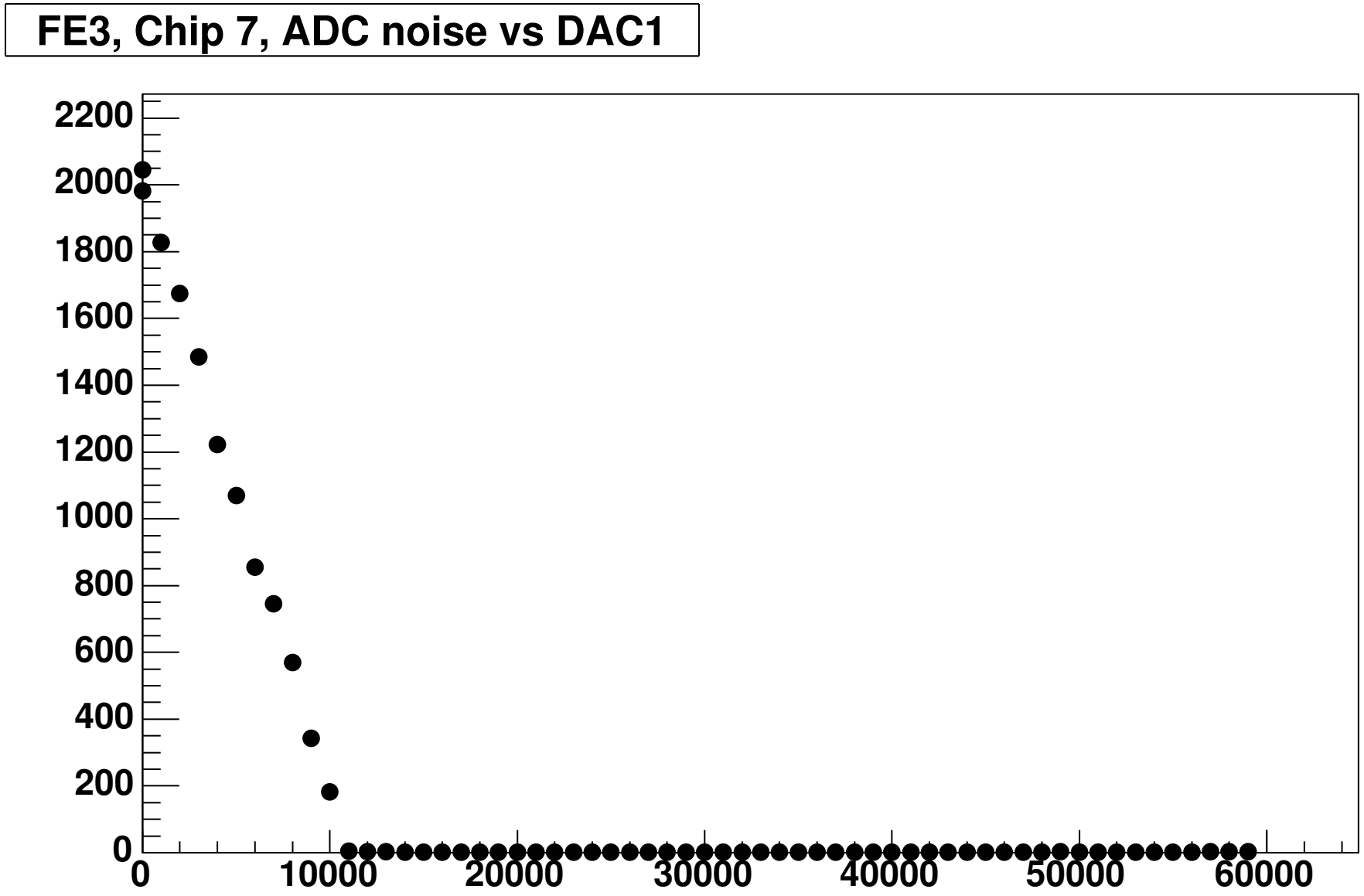
60000


FE3, Chip 7, ADC noise vs DAC1
2200
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10000
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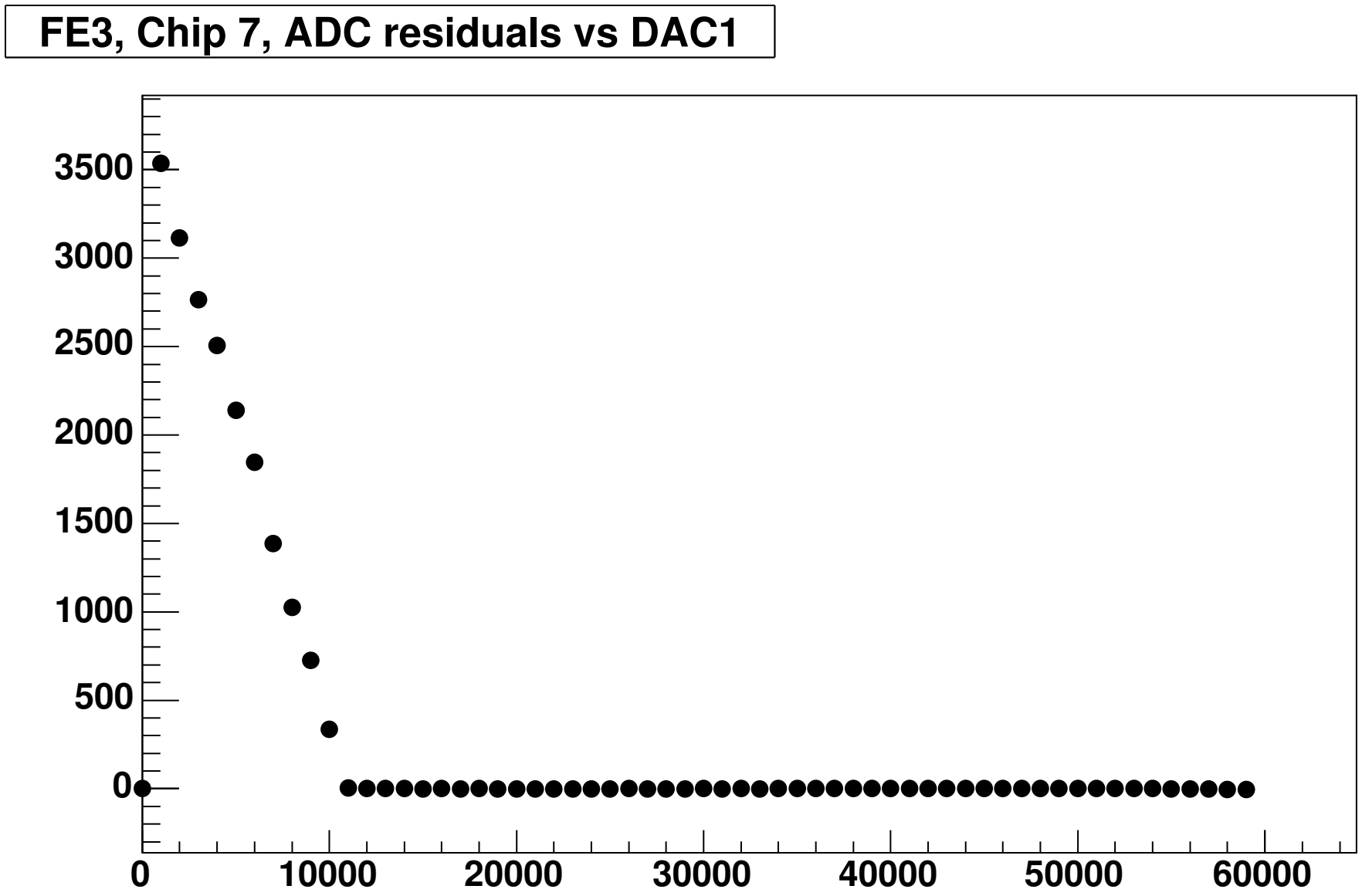
FE3, Chip 7, ADC residuals vs DAC1
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1500
1000
500
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10000
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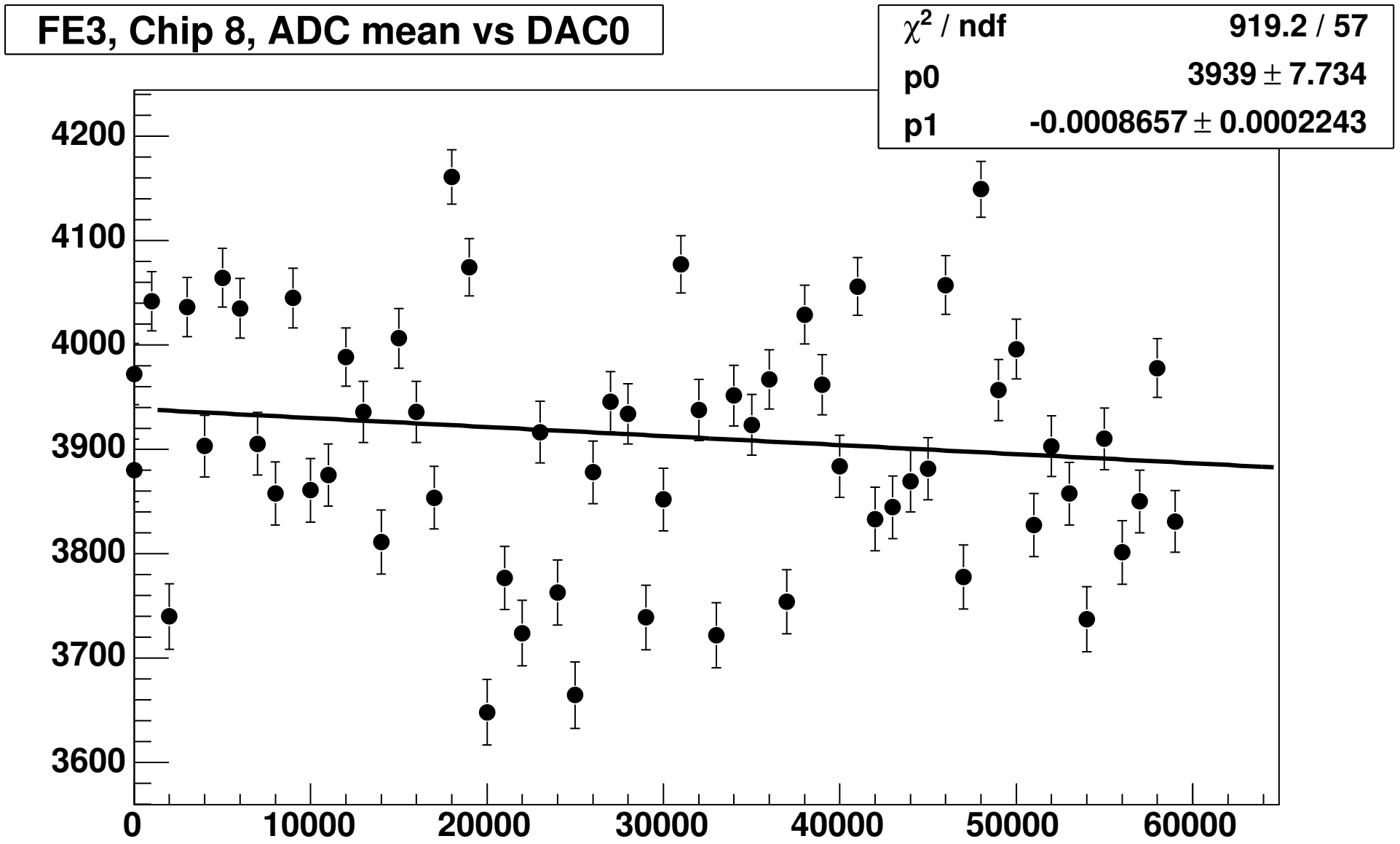
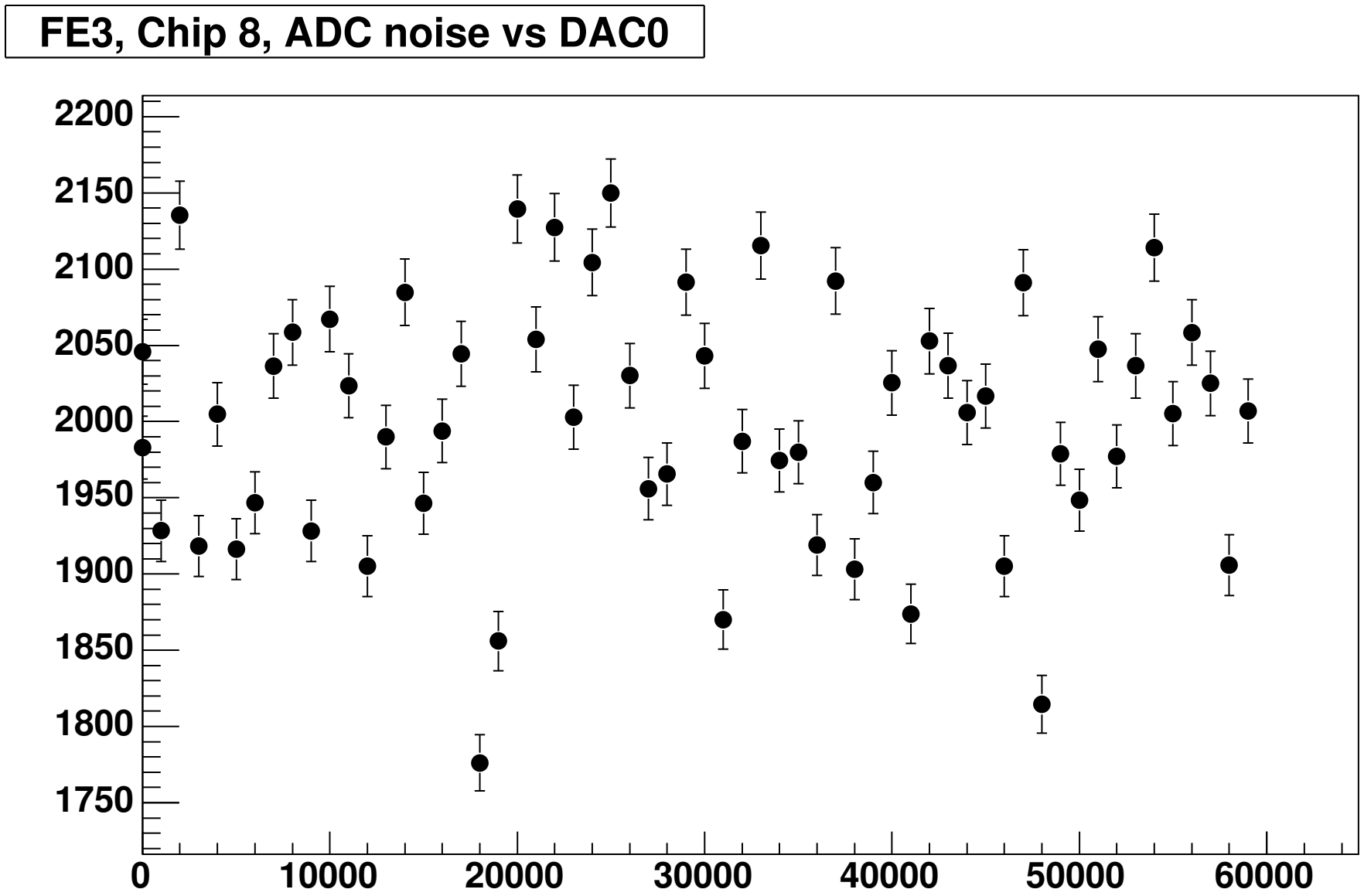

FE3, Chip 8, ADC mean vs DAC0
χ^2 / ndf 919.2 / 57
p0 3939 ± 7.734
p1 -0.0008657 ± 0.0002243
4200
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE3, Chip 8, ADC noise vs DAC0
2200
2150
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2000
1950
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1850
1800
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0
10000
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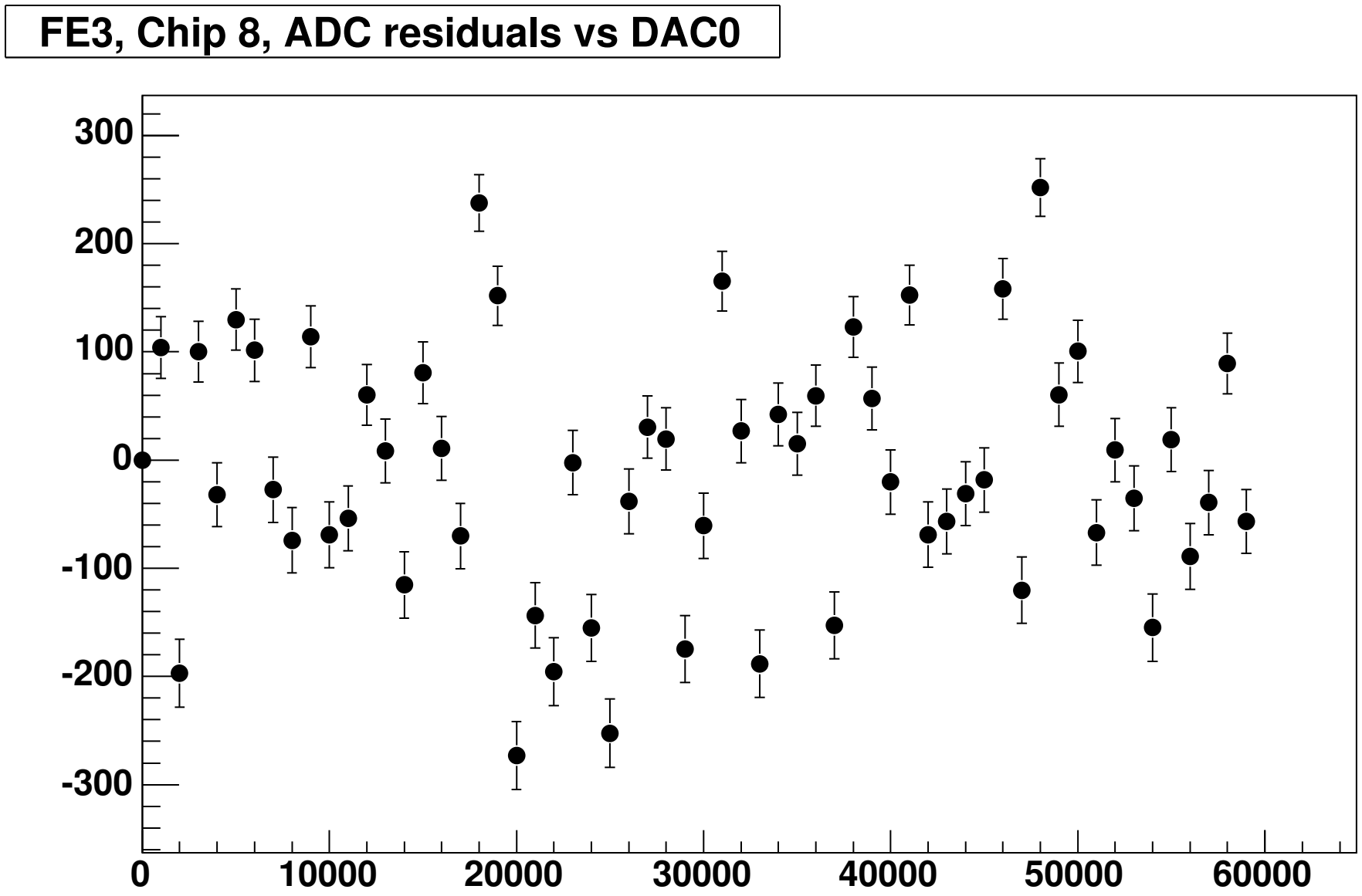
FE3, Chip 8, ADC residuals vs DAC0
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200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
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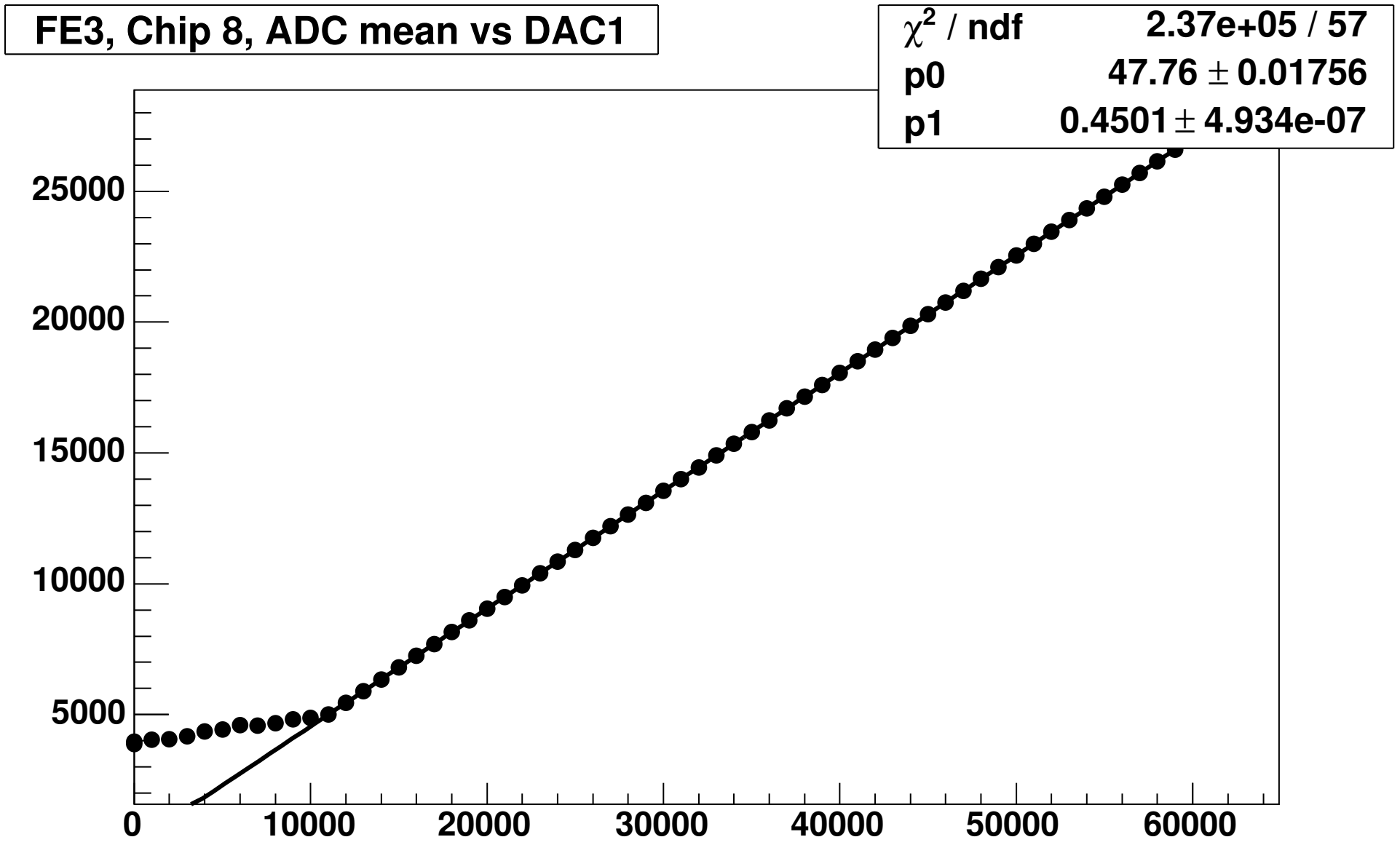
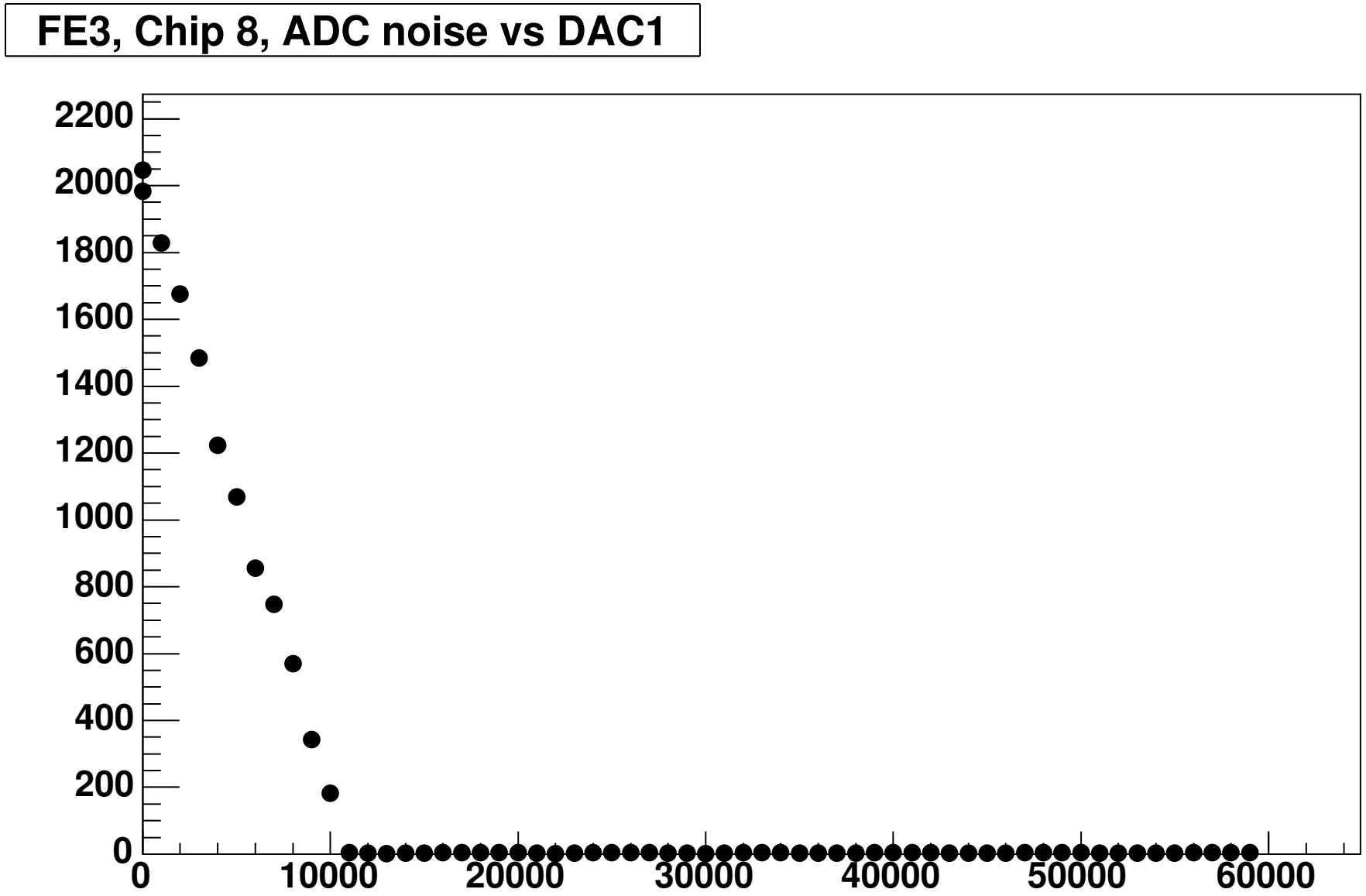

FE3, Chip 8, ADC mean vs DAC1
χ² / ndf 2.37e+05 / 57
p0 47.76 ± 0.01756
p1 0.4501 ± 4.934e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE3, Chip 8, ADC noise vs DAC1
2200
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1600
1400
1200
1000
800
600
400
200
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0
10000
20000
30000
40000
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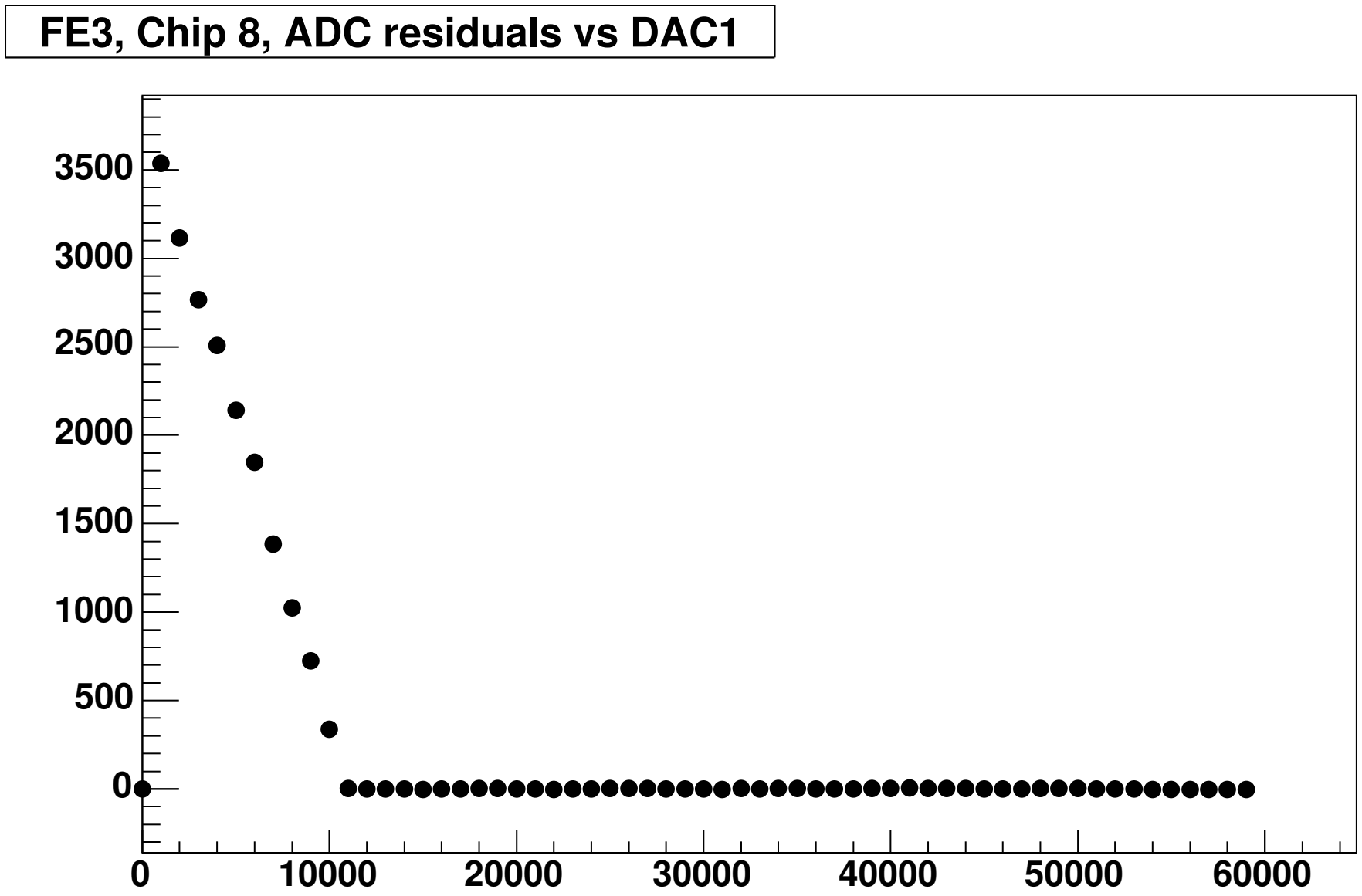
FE3, Chip 8, ADC residuals vs DAC1
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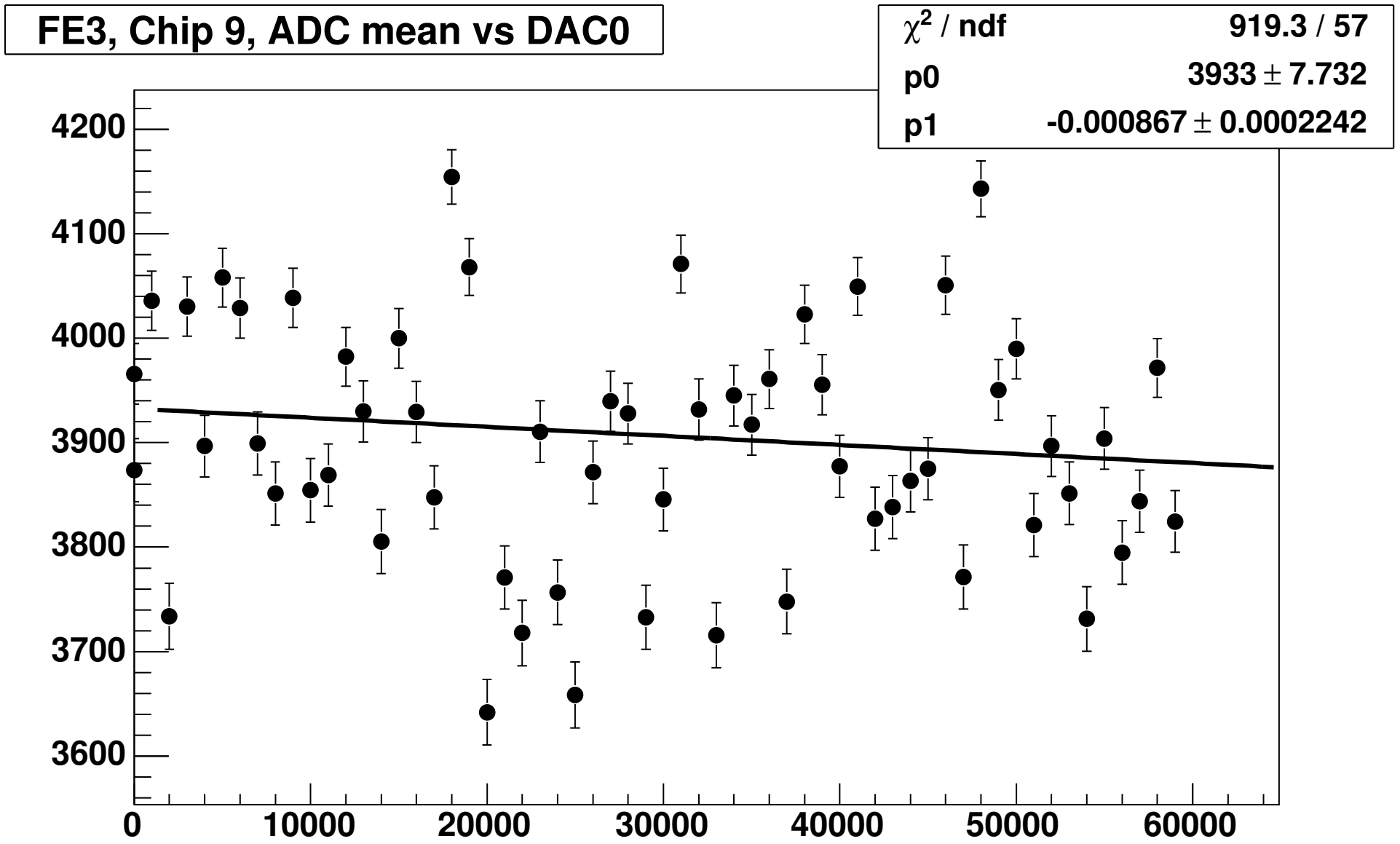
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE3, Chip 9, ADC mean vs DAC0
χ^2 / ndf 919.3 / 57
p0 3933 ± 7.732
p1 -0.000867 ± 0.0002242
4200
4100
4000
3900
3800
3700
3600
0
10000
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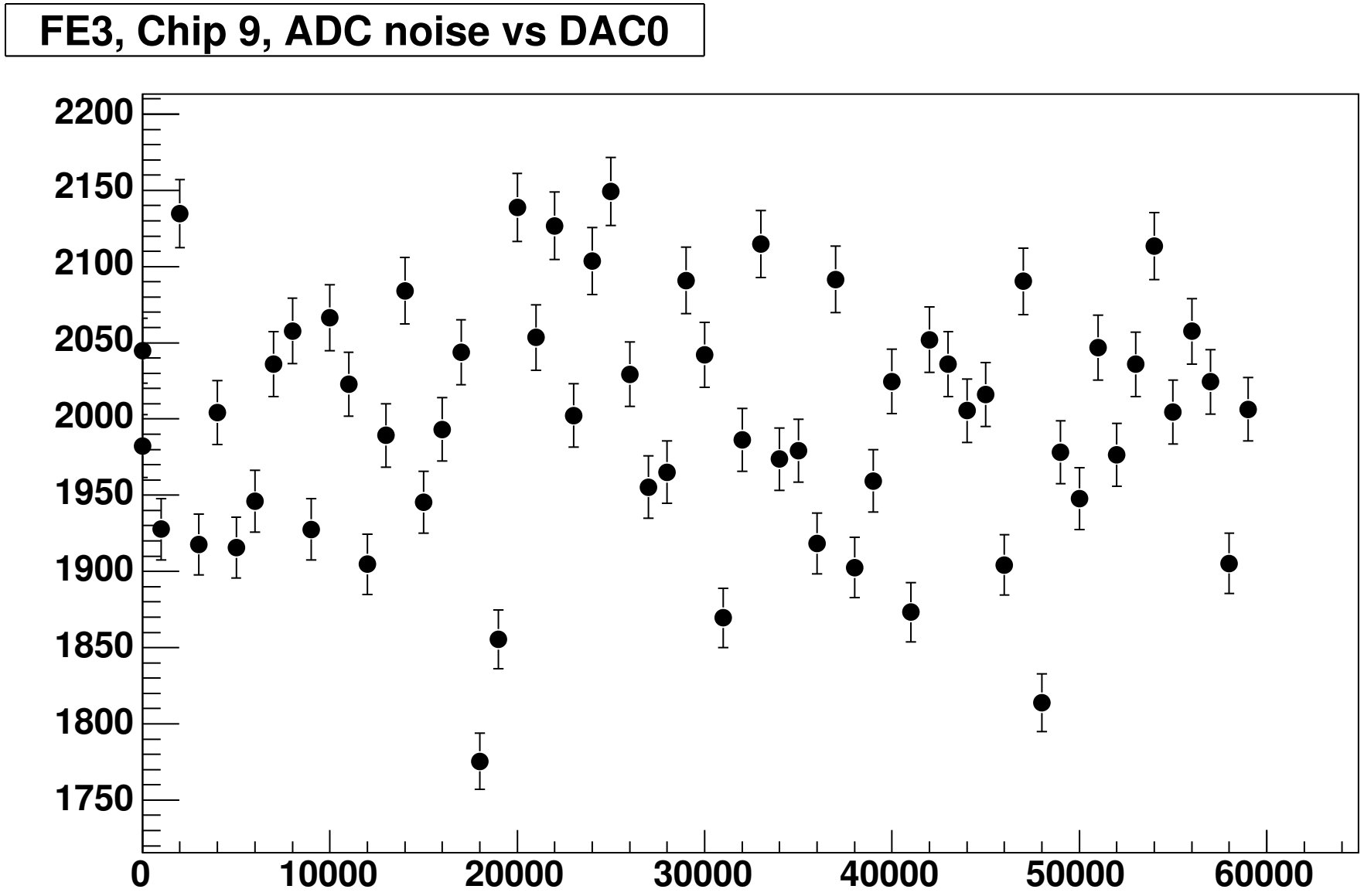
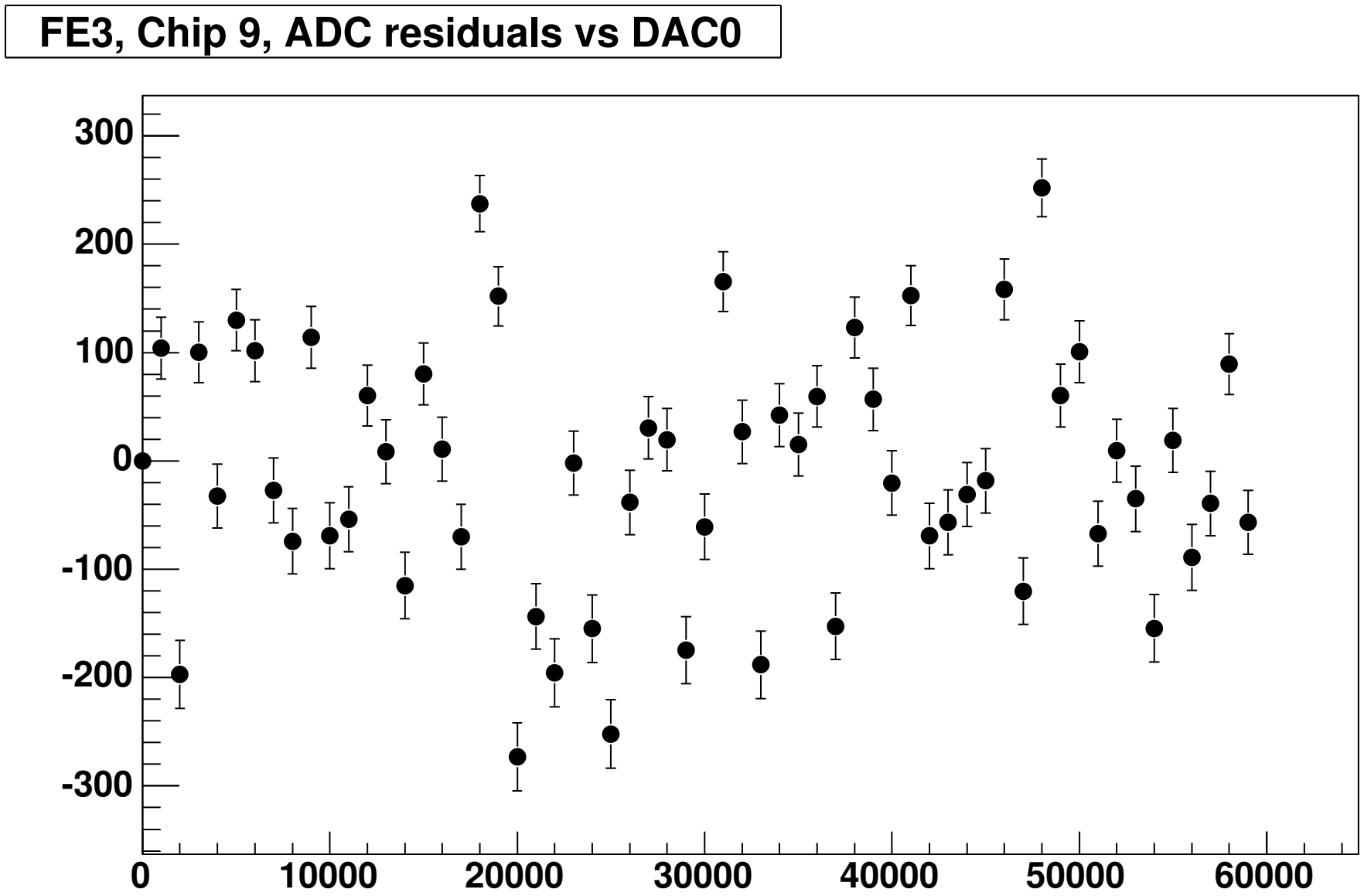
30000
40000
50000
60000


FE3, Chip 9, ADC noise vs DAC0
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
60000


FE3, Chip 9, ADC residuals vs DAC0
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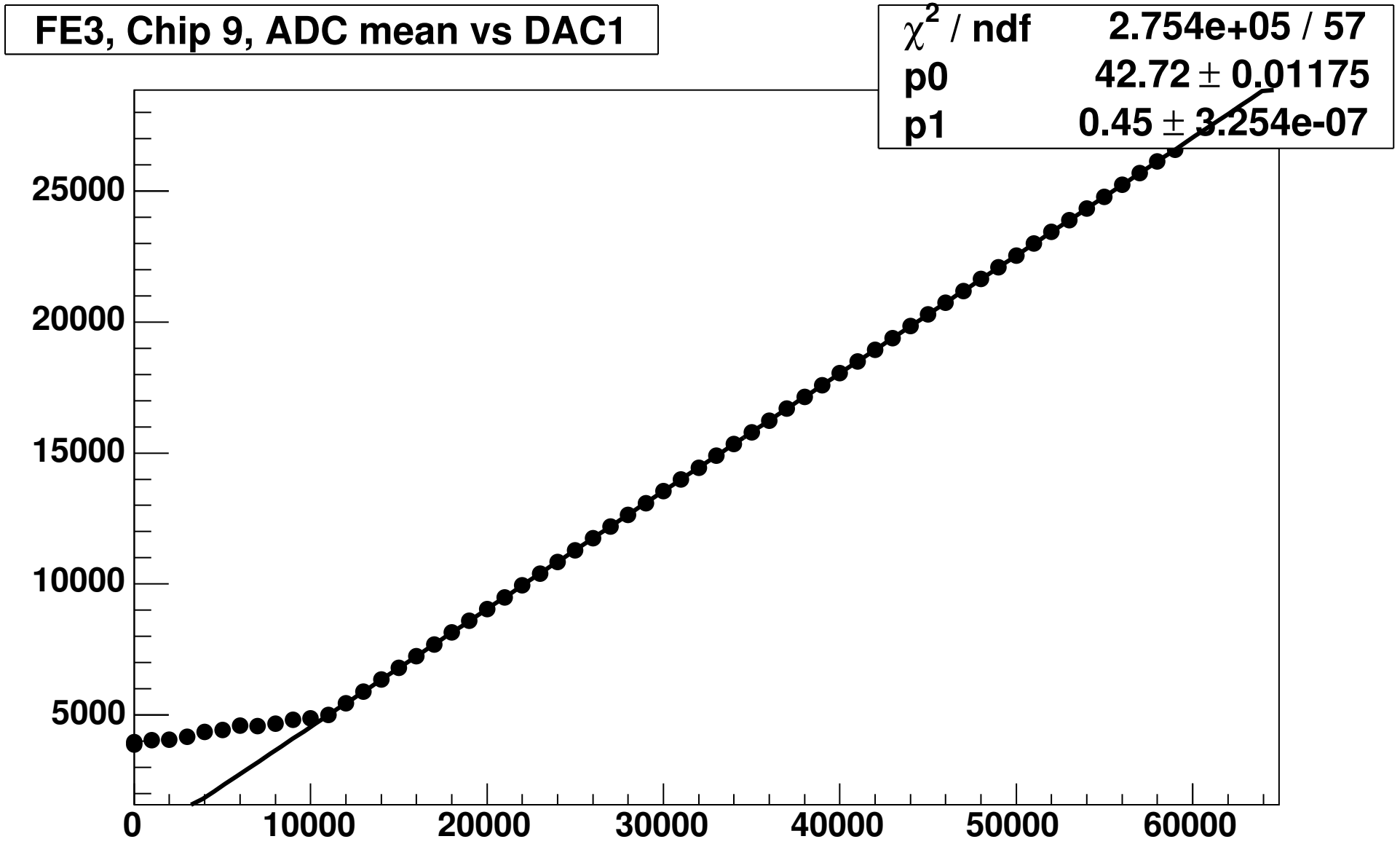
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE3, Chip 9, ADC mean vs DAC1
χ² / ndf 2.754e+05 / 57
p0 42.72 ± 0.01175
p1 0.45 ± 3.254e-07
25000
20000
15000
10000
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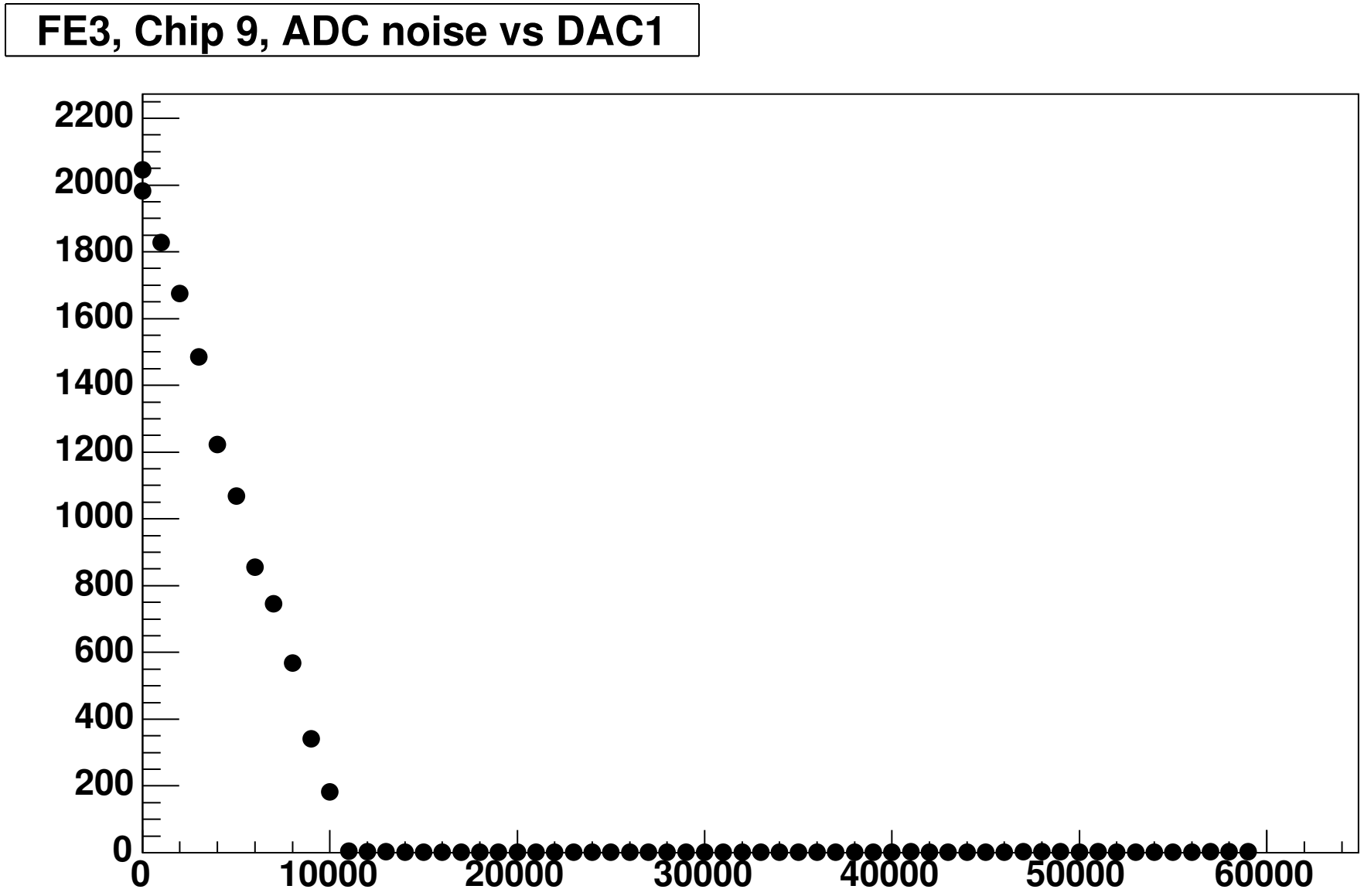
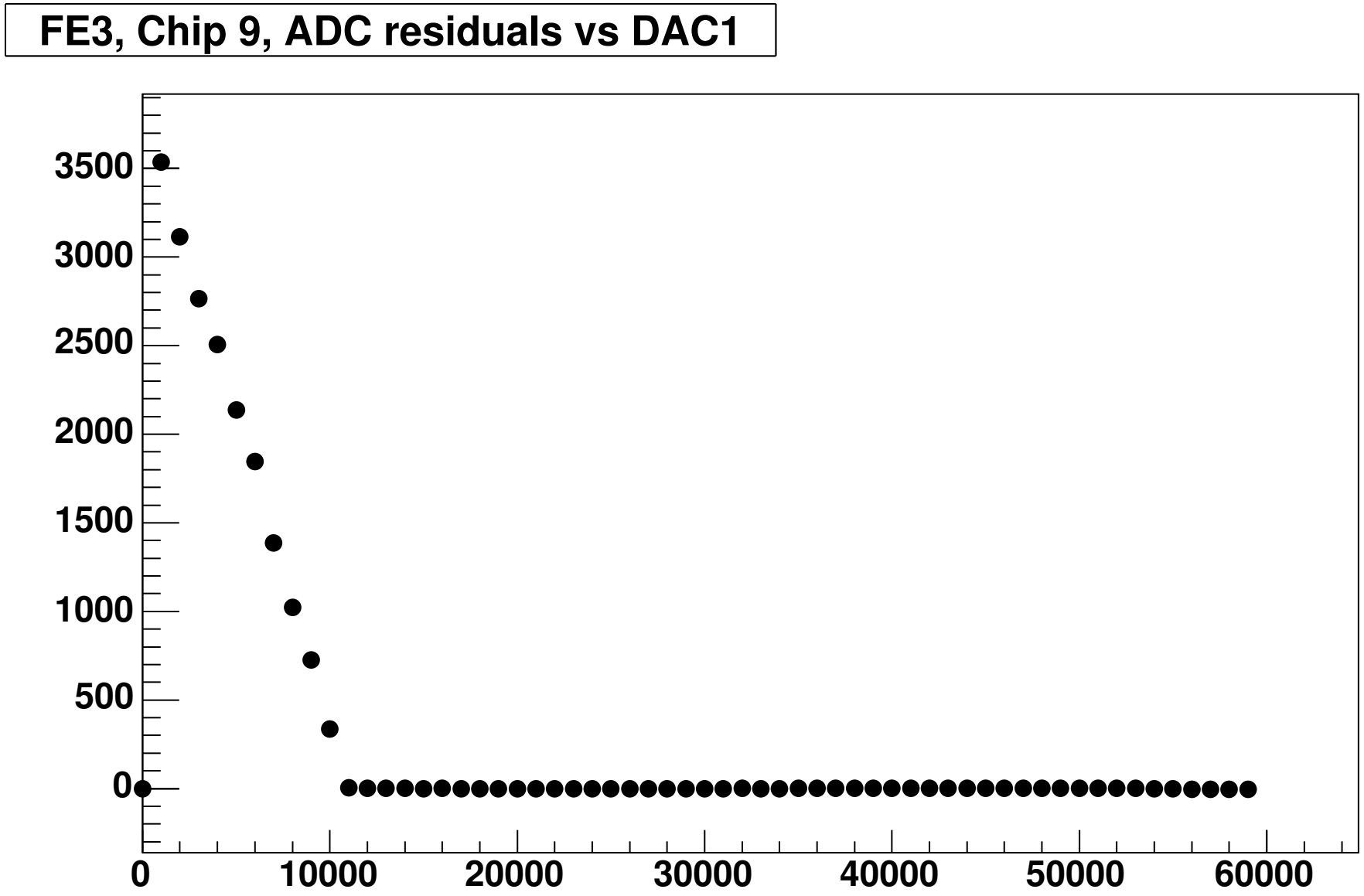
0
10000
20000
30000
40000
50000
60000


FE3, Chip 9, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE3, Chip 9, ADC residuals vs DAC1
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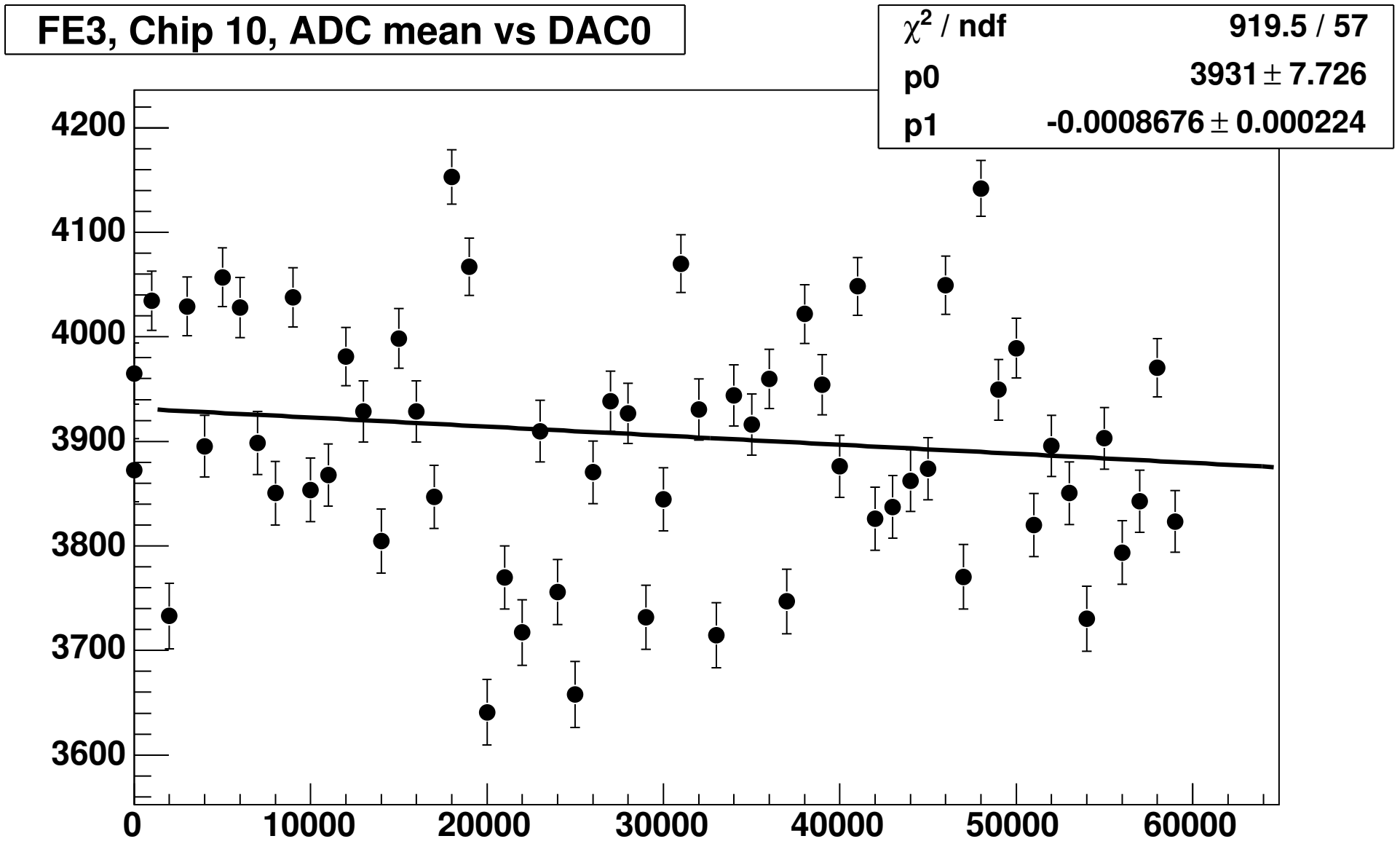
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE3, Chip 10, ADC mean vs DAC0
χ² / ndf 919.5 / 57
p0 3931 ± 7.726
p1 -0.0008676 ± 0.000224
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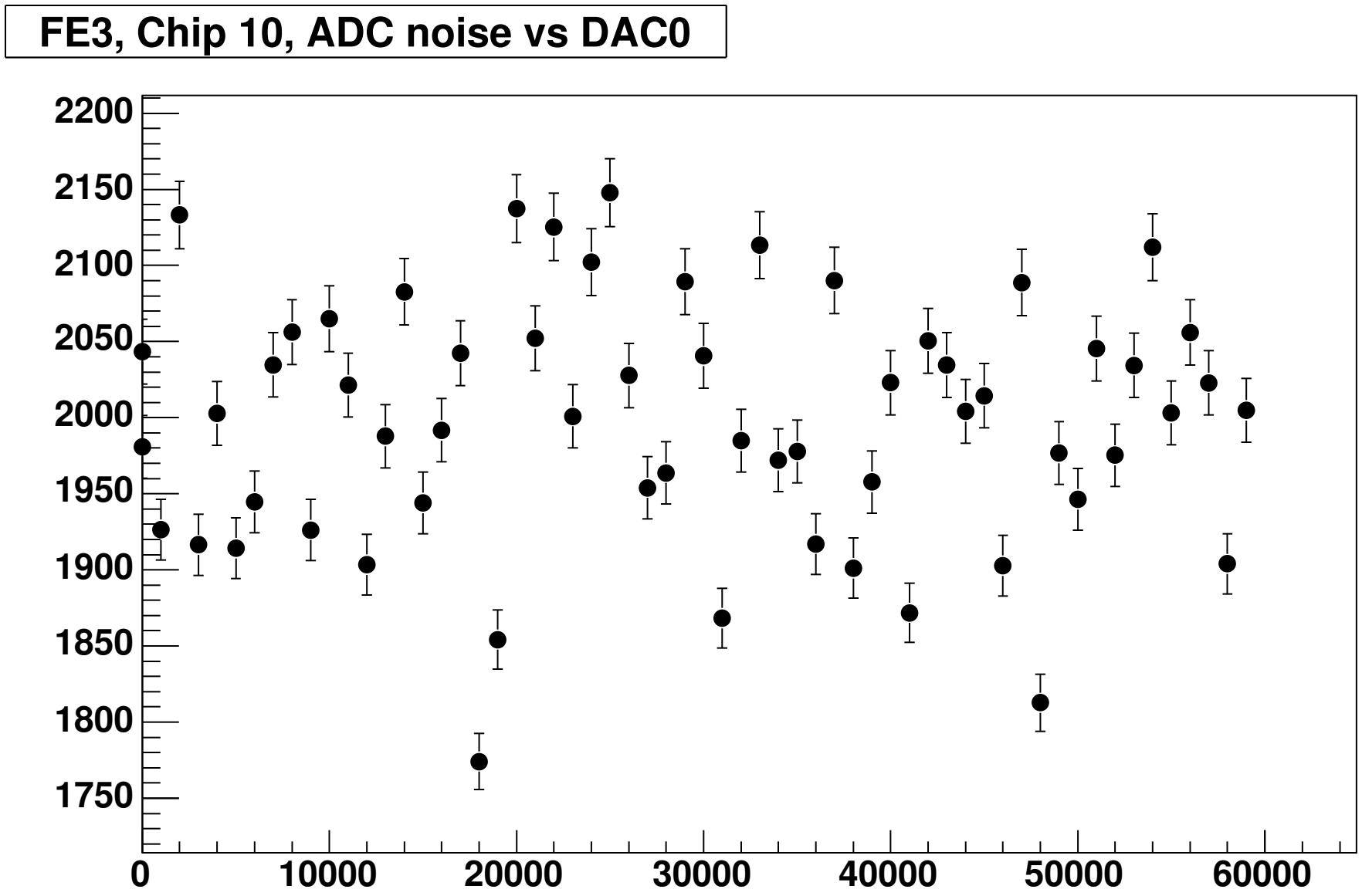
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE3, Chip 10, ADC noise vs DAC0
2200
2150
2100
2050
2000
1950
1900
1850
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10000
20000
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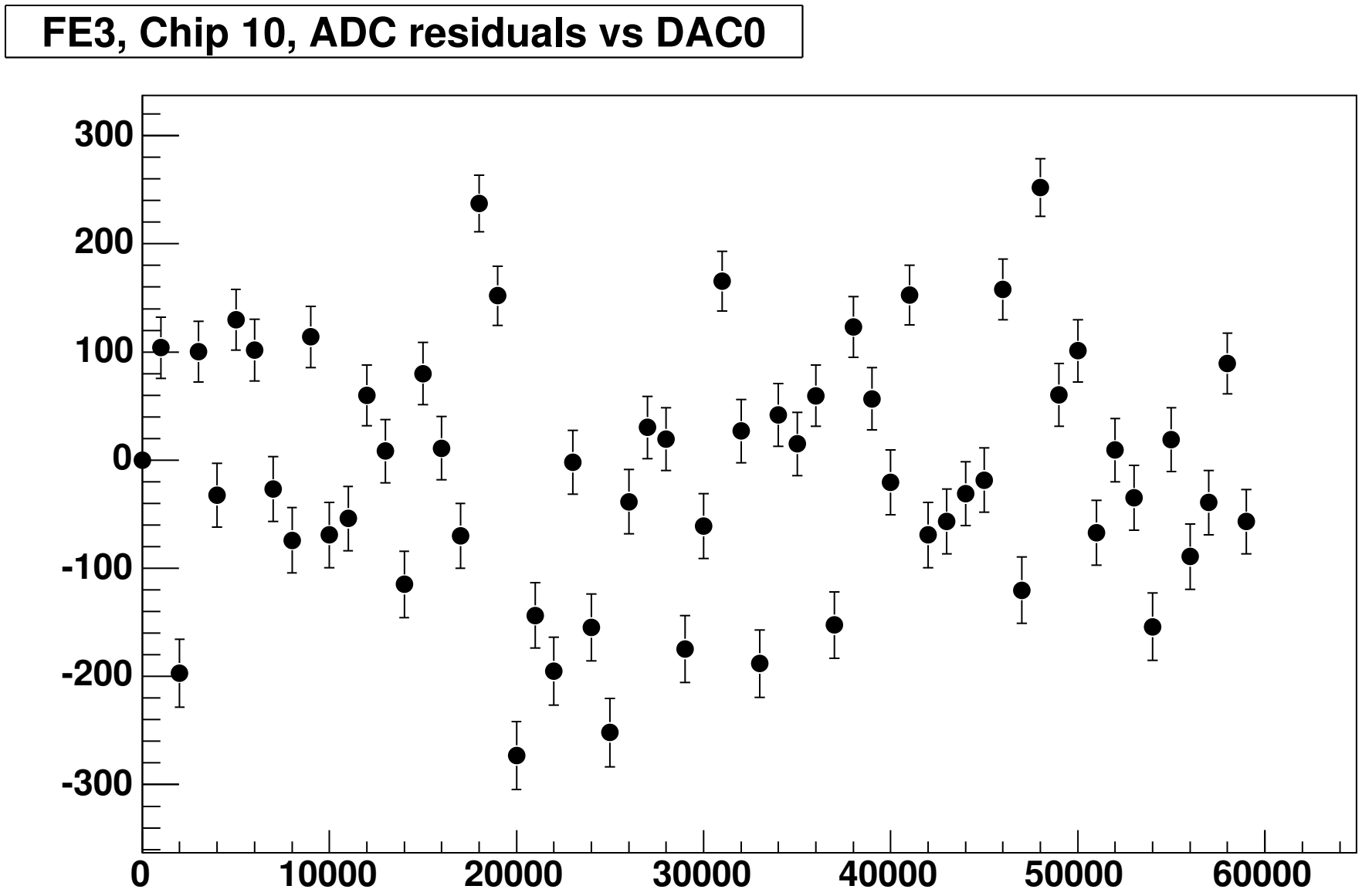
FE3, Chip 10, ADC residuals vs DAC0
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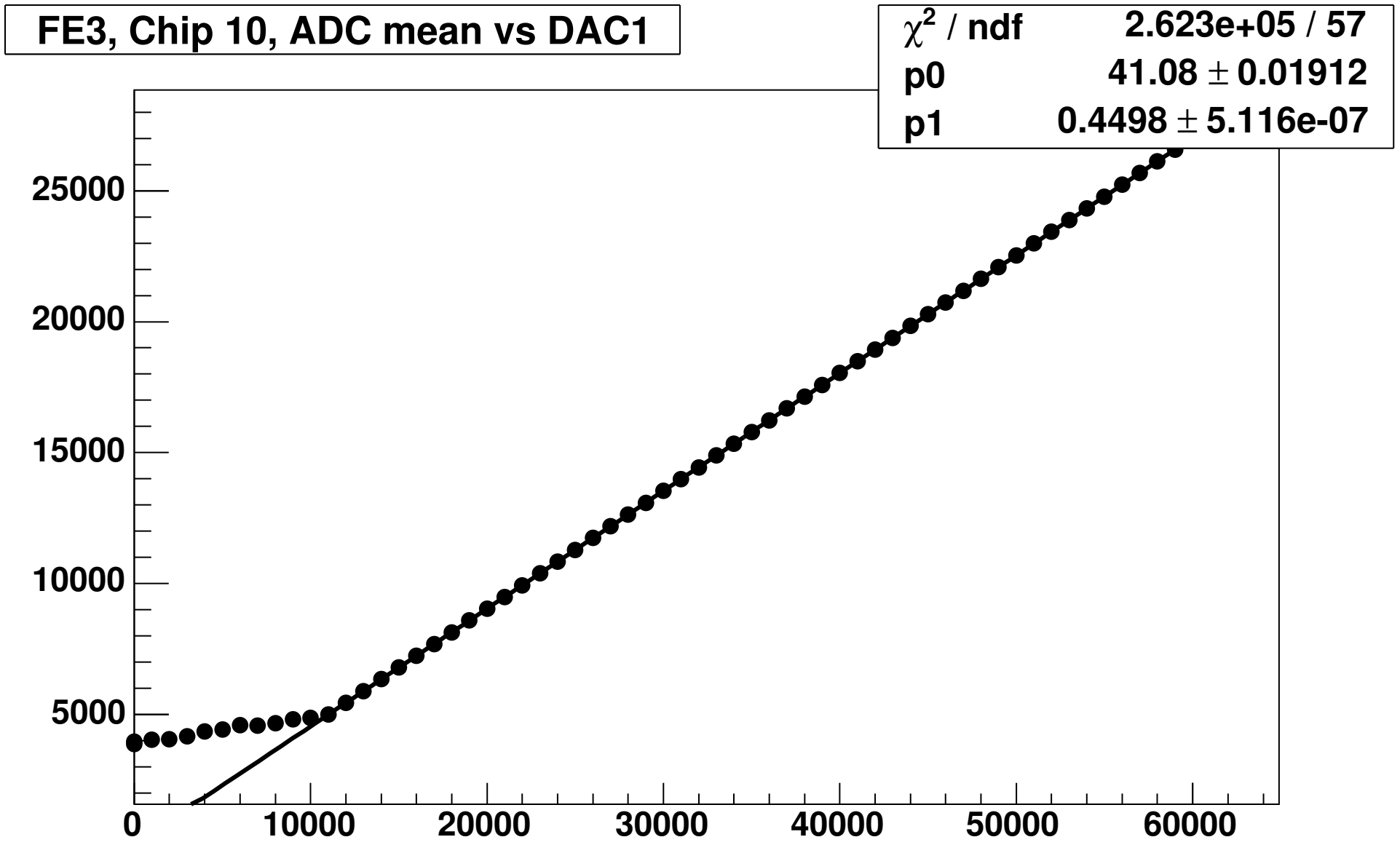
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE3, Chip 10, ADC mean vs DAC1
χ² / ndf 2.623e+05 / 57
p0 41.08 ± 0.01912
p1 0.4498 ± 5.116e-07
25000
20000
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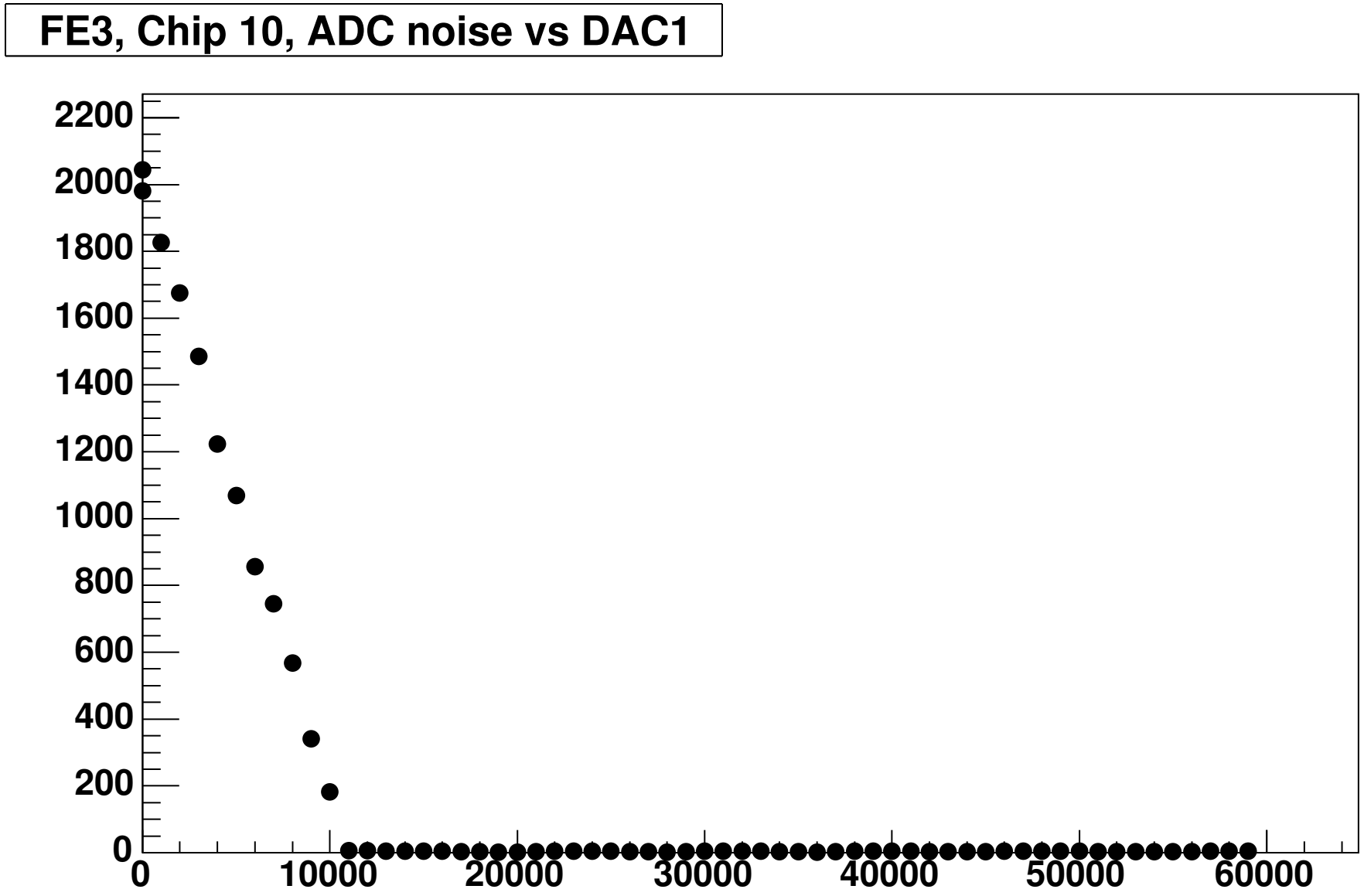
5000
0
10000
20000
30000
40000
50000
60000


FE3, Chip 10, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
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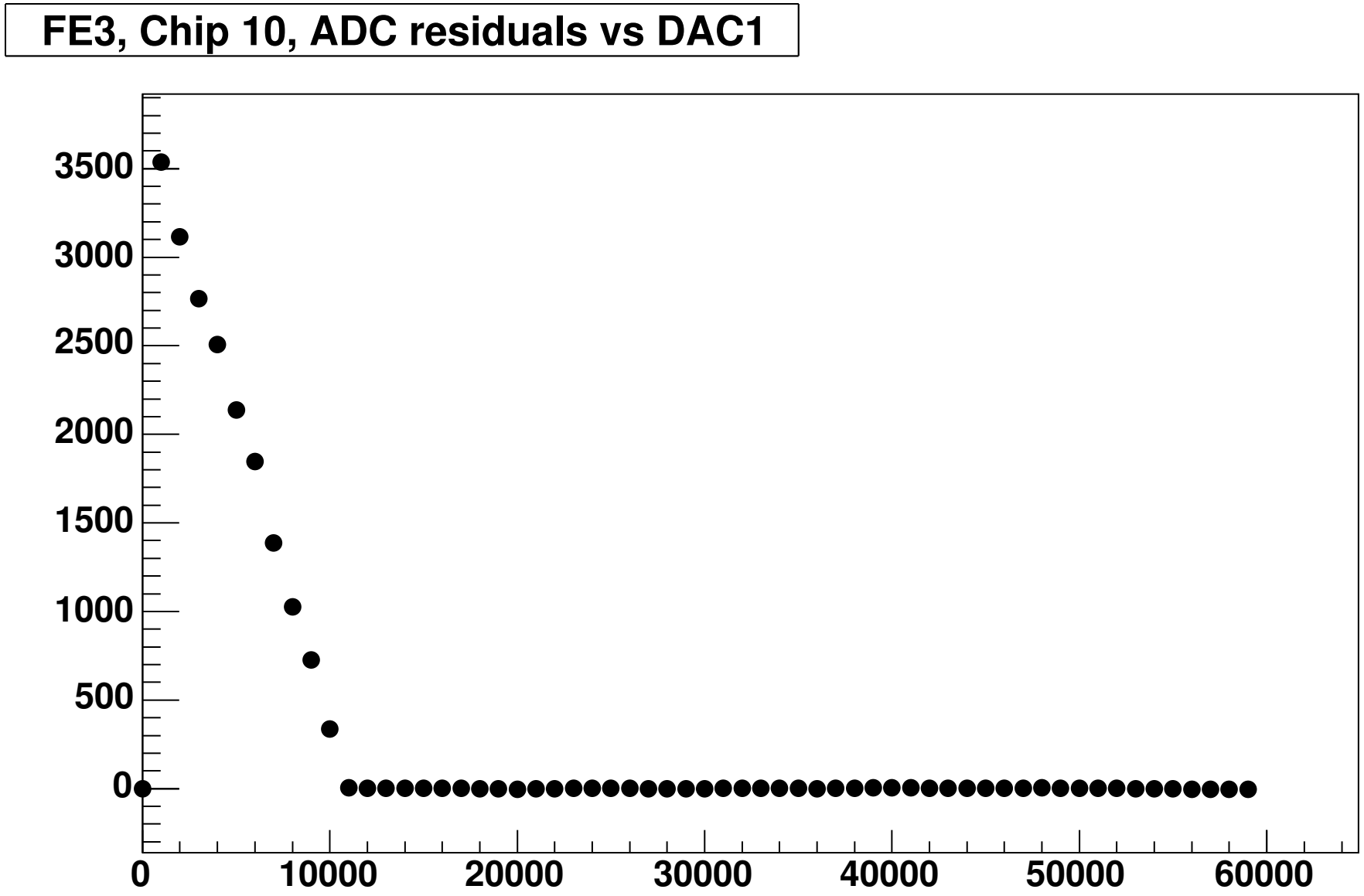
FE3, Chip 10, ADC residuals vs DAC1
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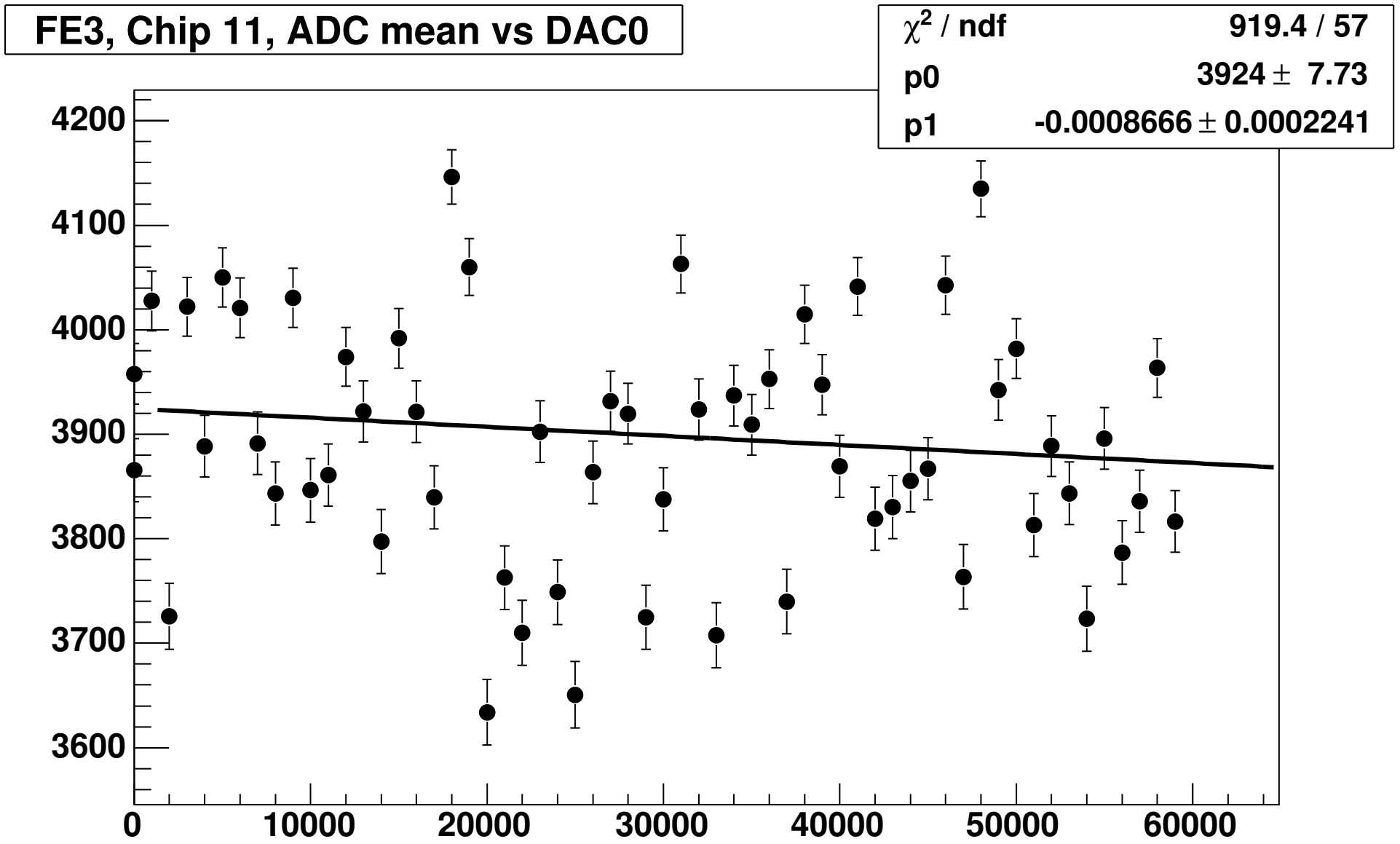
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE3, Chip 11, ADC mean vs DAC0
χ² / ndf 919.4 / 57
p0 3924 ± 7.73
p1 -0.0008666 ± 0.0002241
4200
4100
4000
3900
3800
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0
10000
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30000
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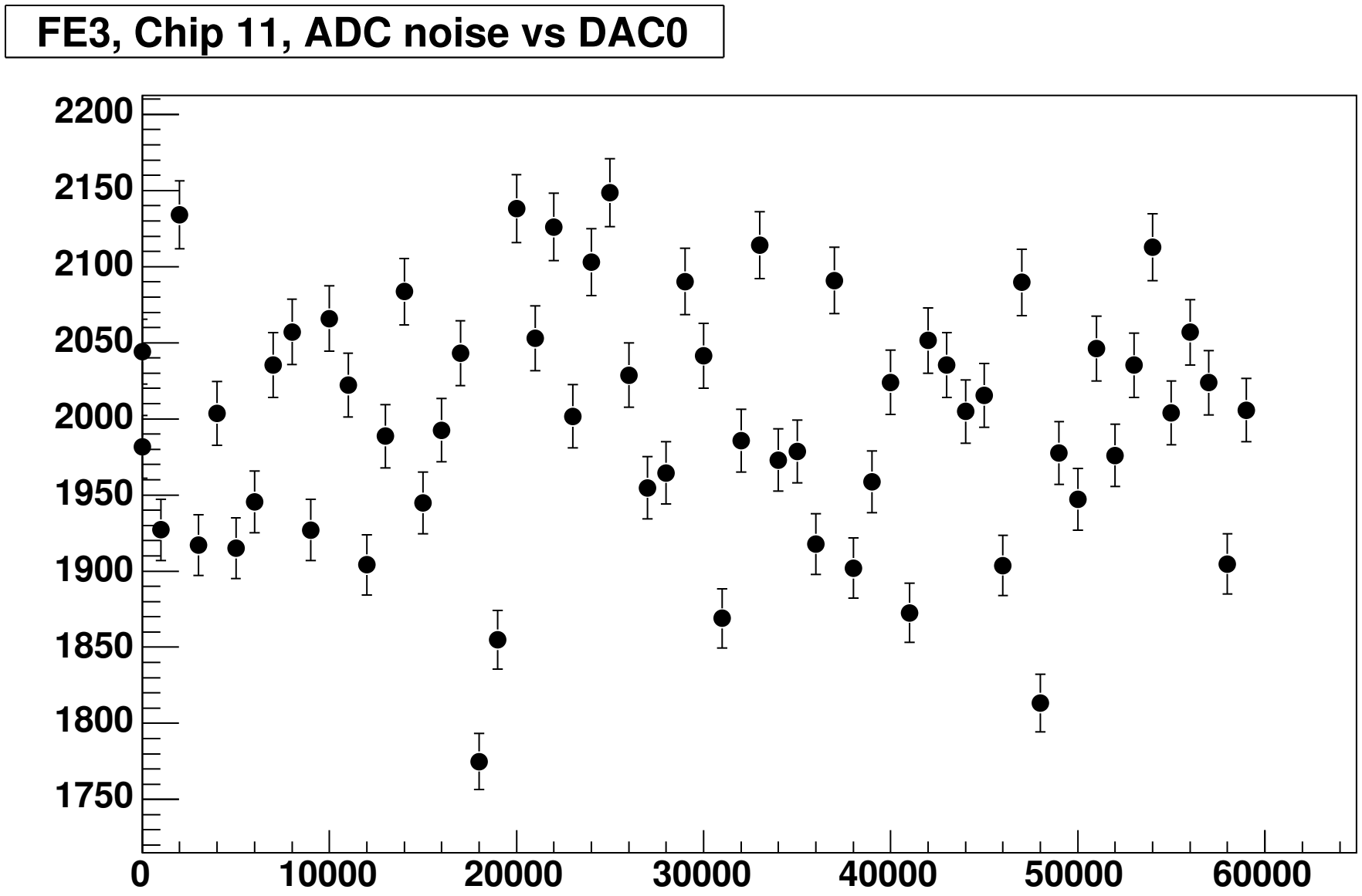
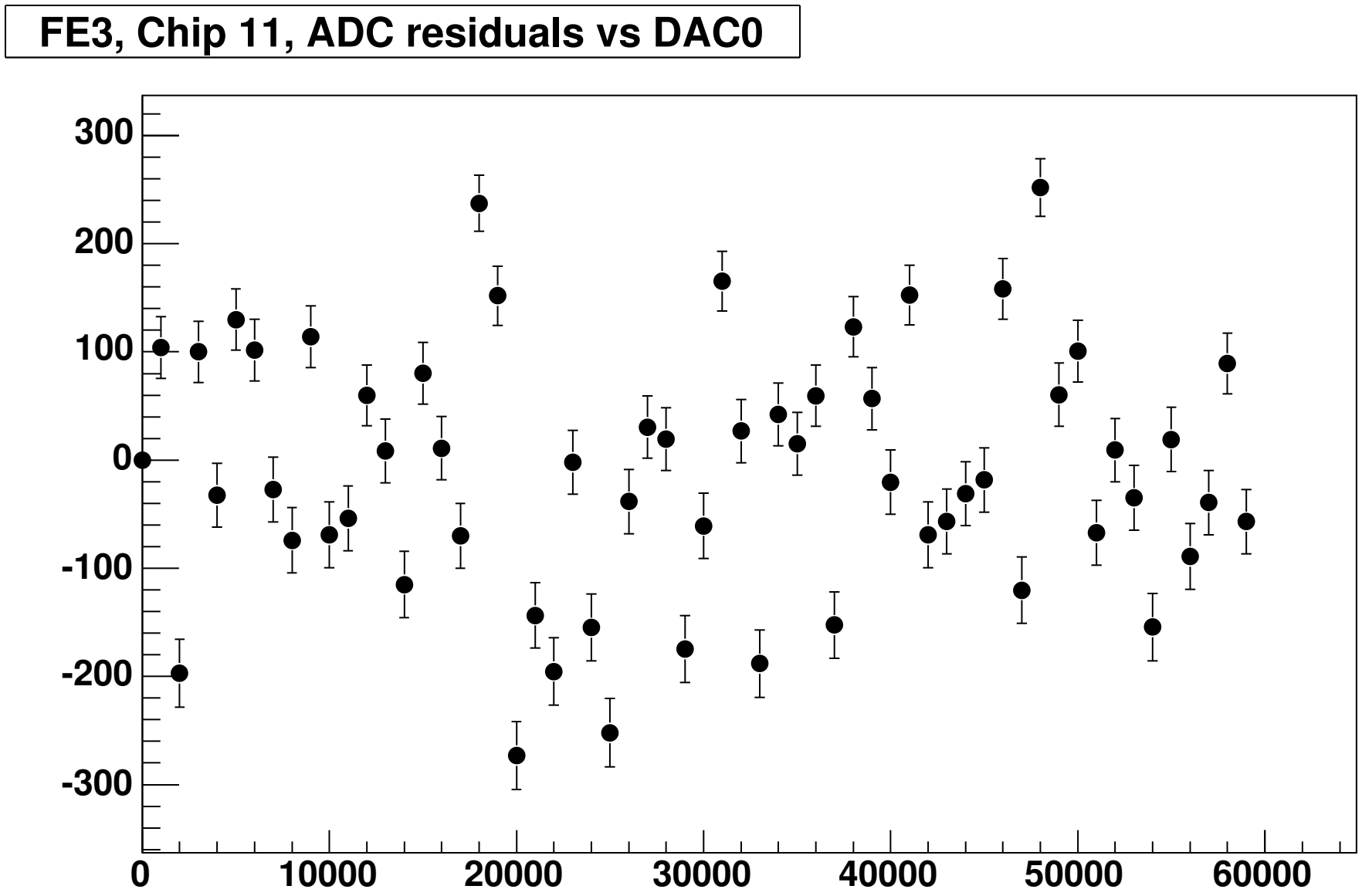
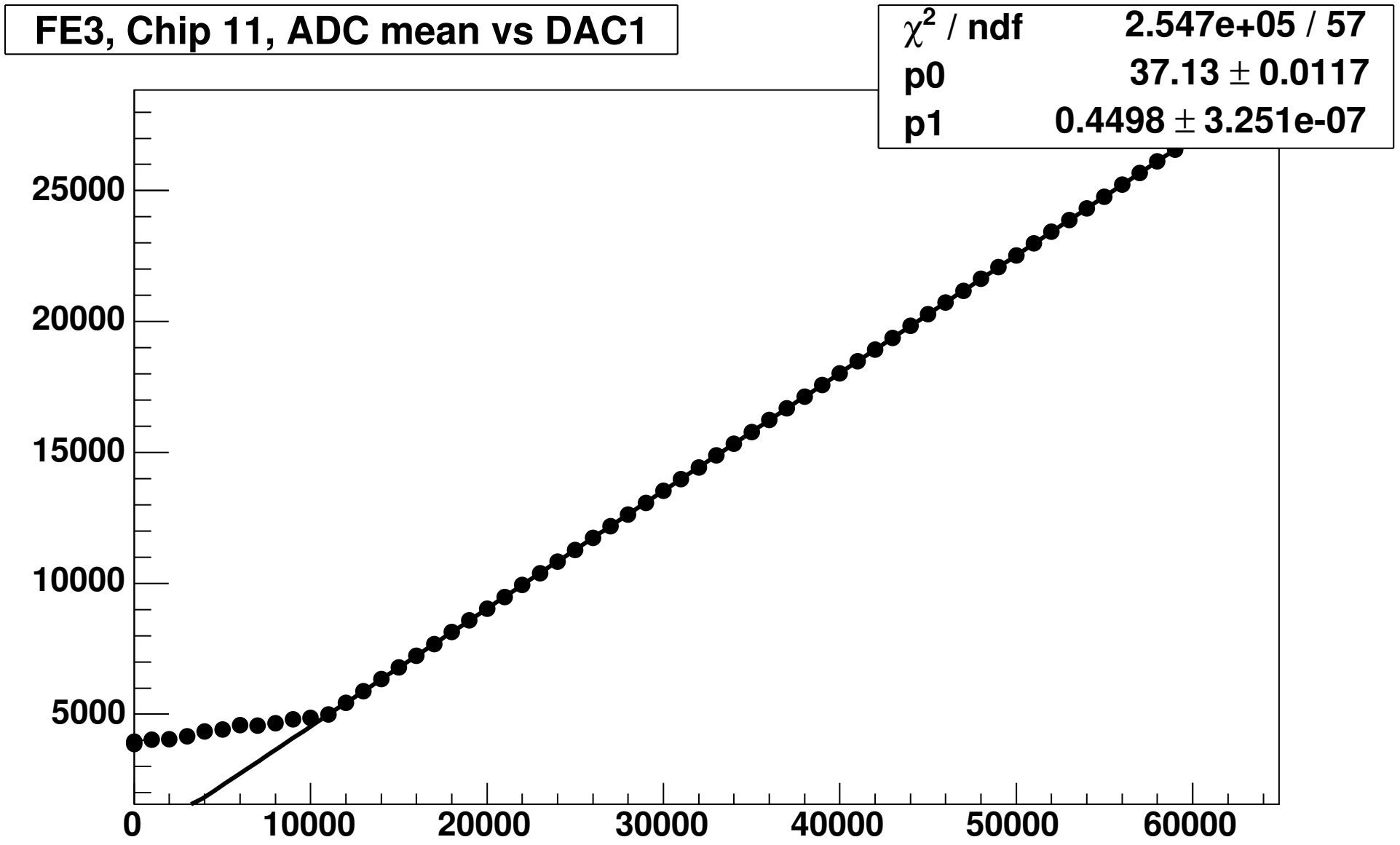
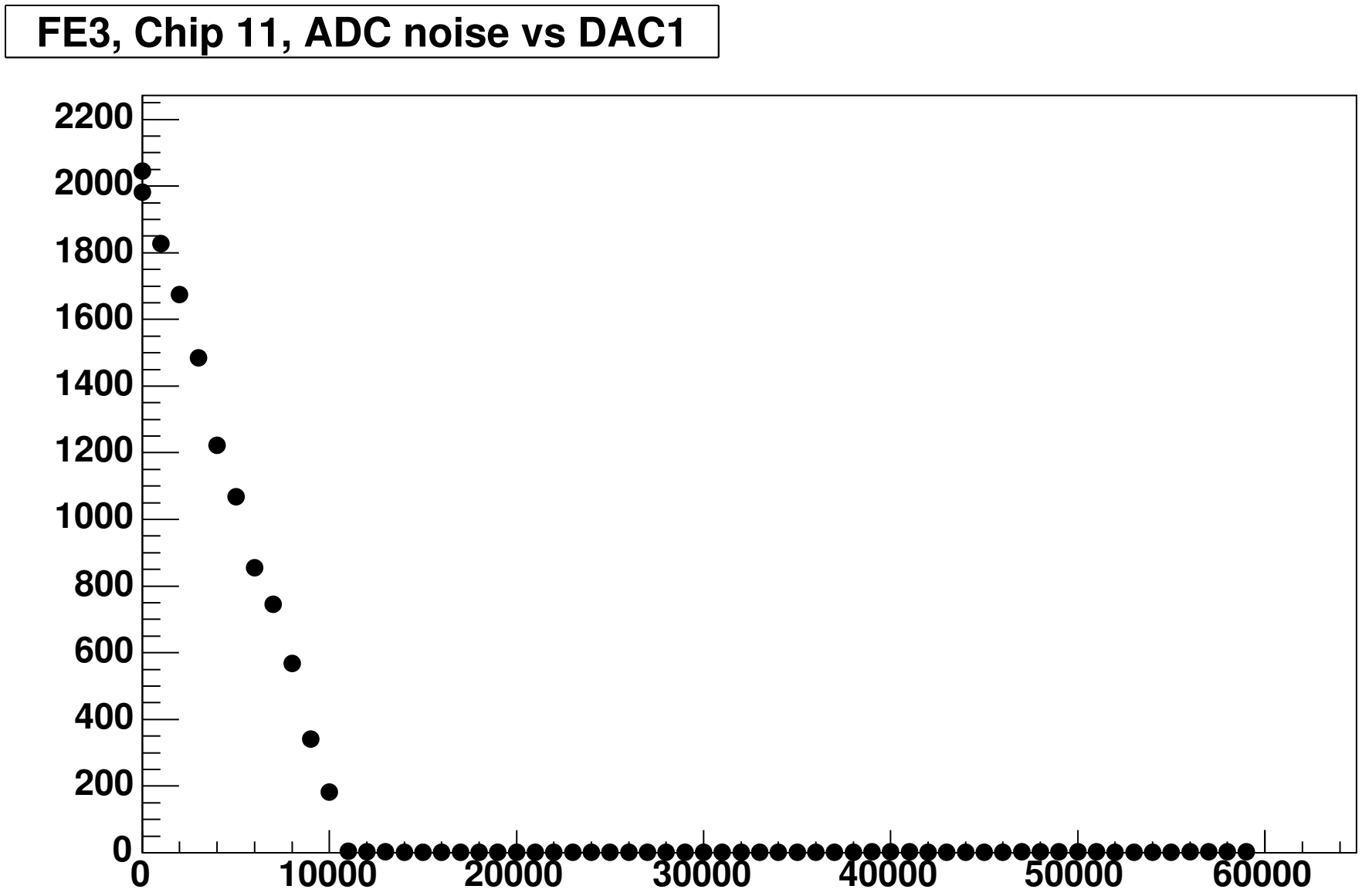
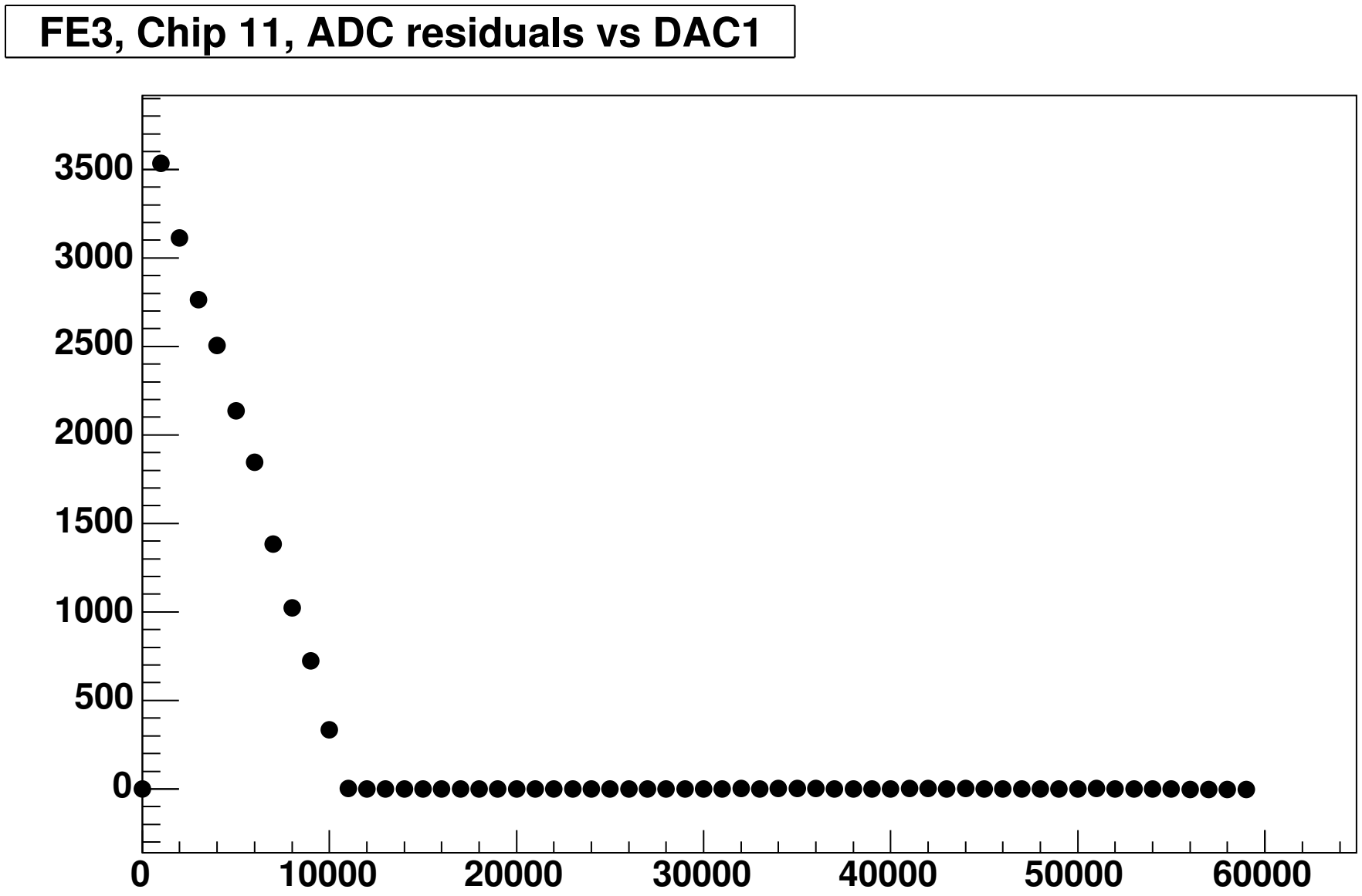

FE3, Chip 11, ADC noise vs DAC0
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
60000


FE3, Chip 11, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE3, Chip 11, ADC mean vs DAC1
χ² / ndf 2.547e+05 / 57
p0 37.13 ± 0.0117
p1 0.4498 ± 3.251e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE3, Chip 11, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE3, Chip 11, ADC residuals vs DAC1
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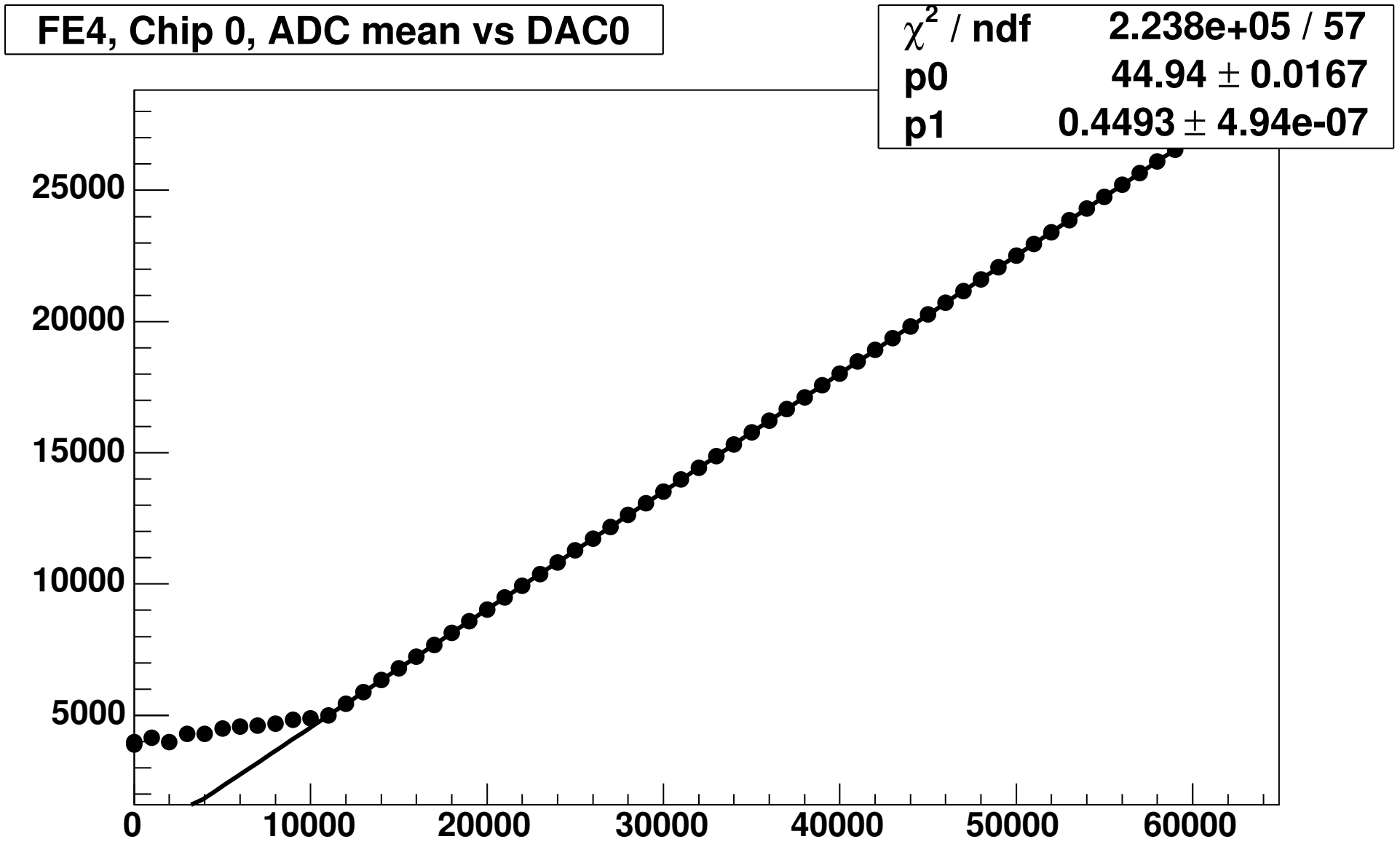
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 0, ADC mean vs DAC0
χ² / ndf 2.238e+05 / 57
p0 44.94 ± 0.0167
p1 0.4493 ± 4.94e-07
25000
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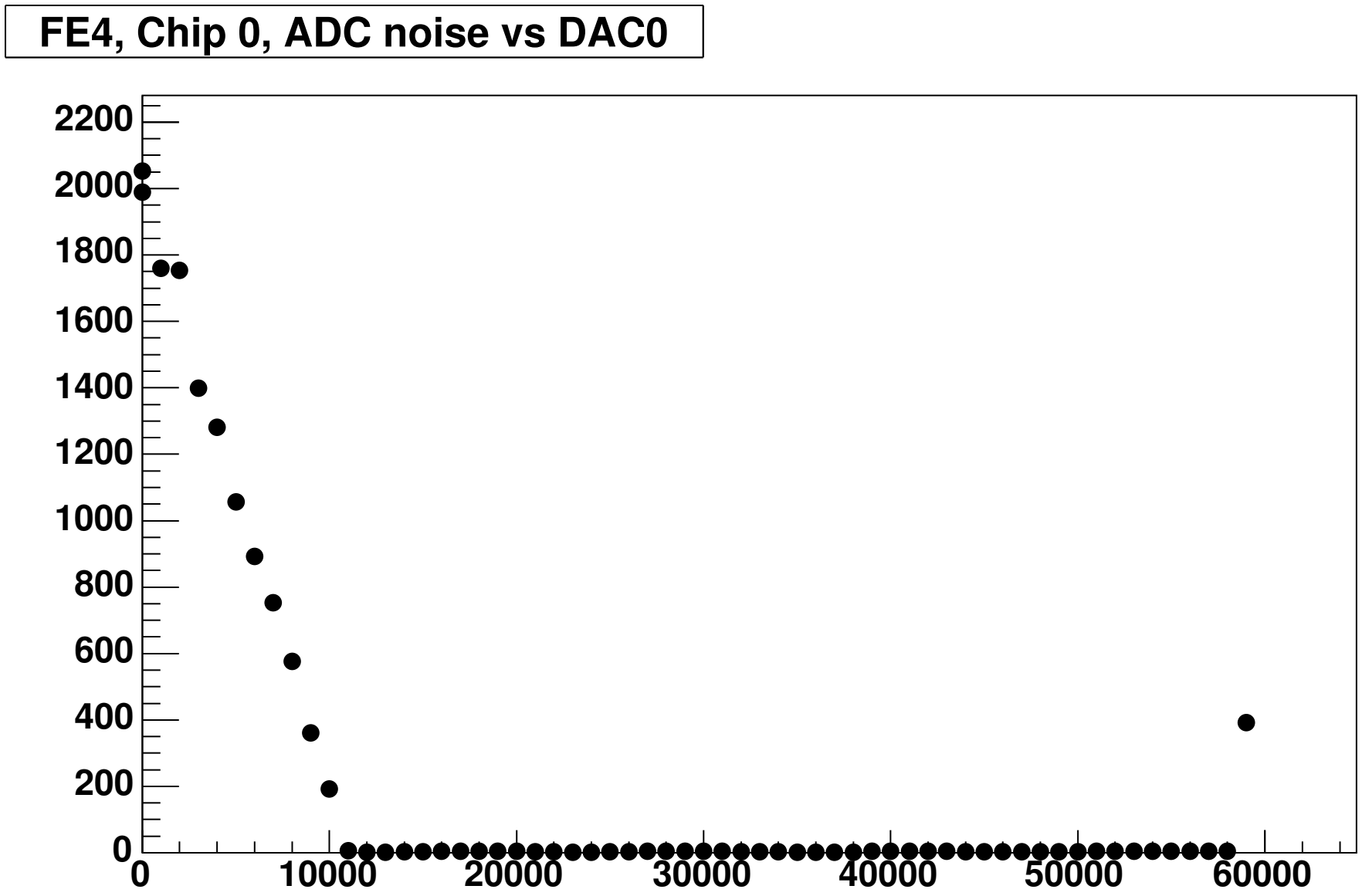
10000
5000
0
10000
20000
30000
40000
50000
60000


FE4, Chip 0, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
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0
10000
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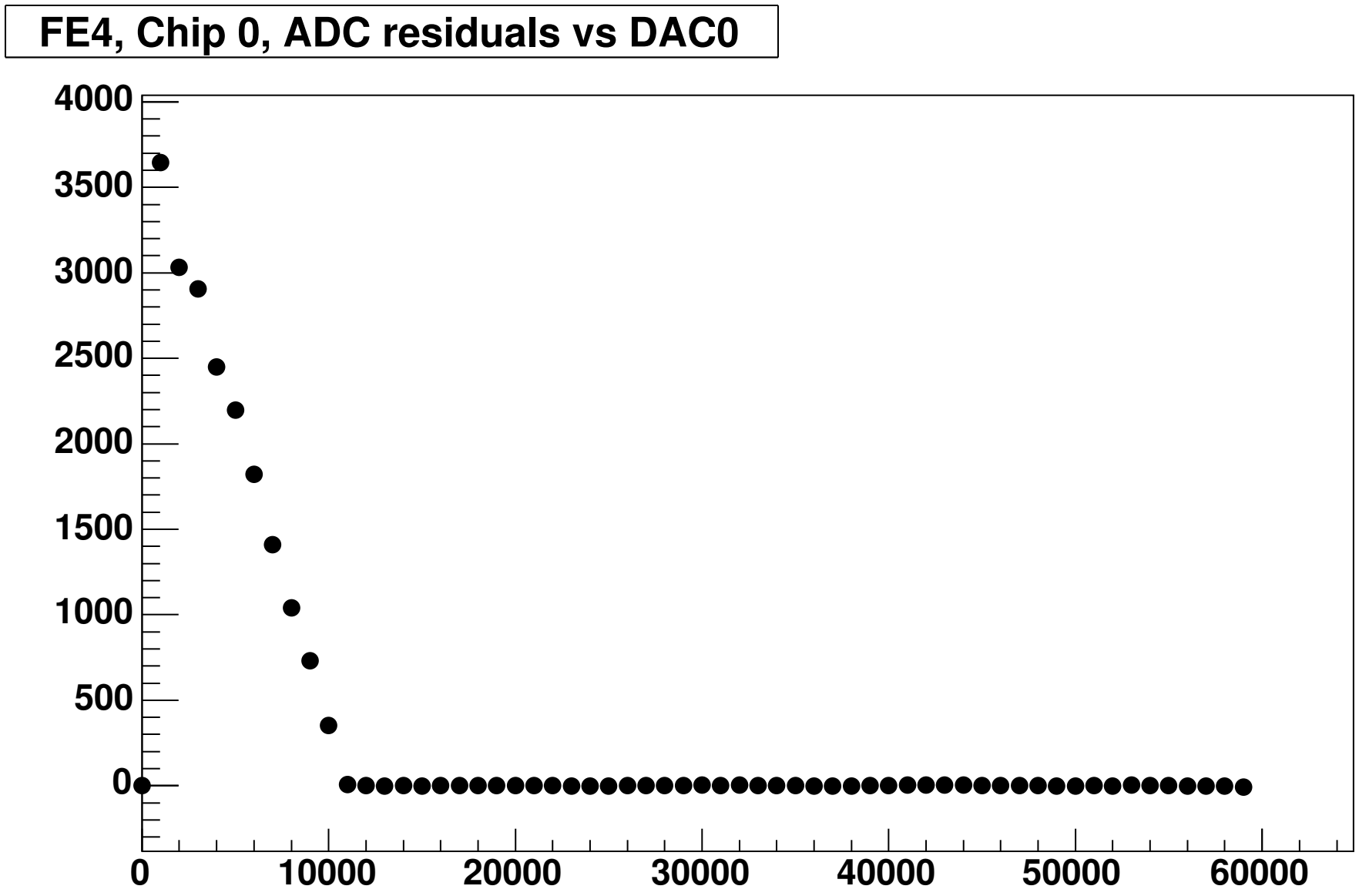
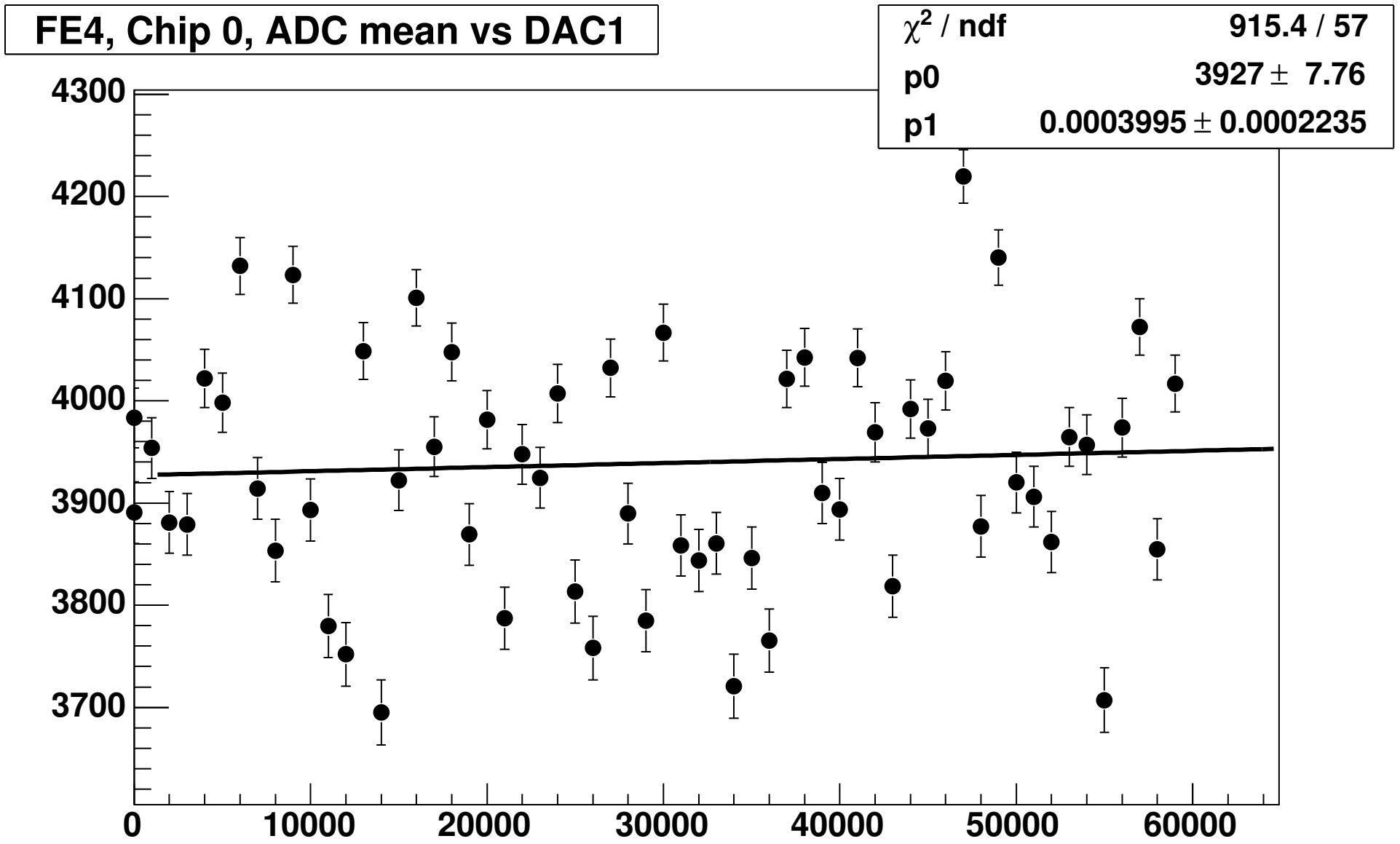
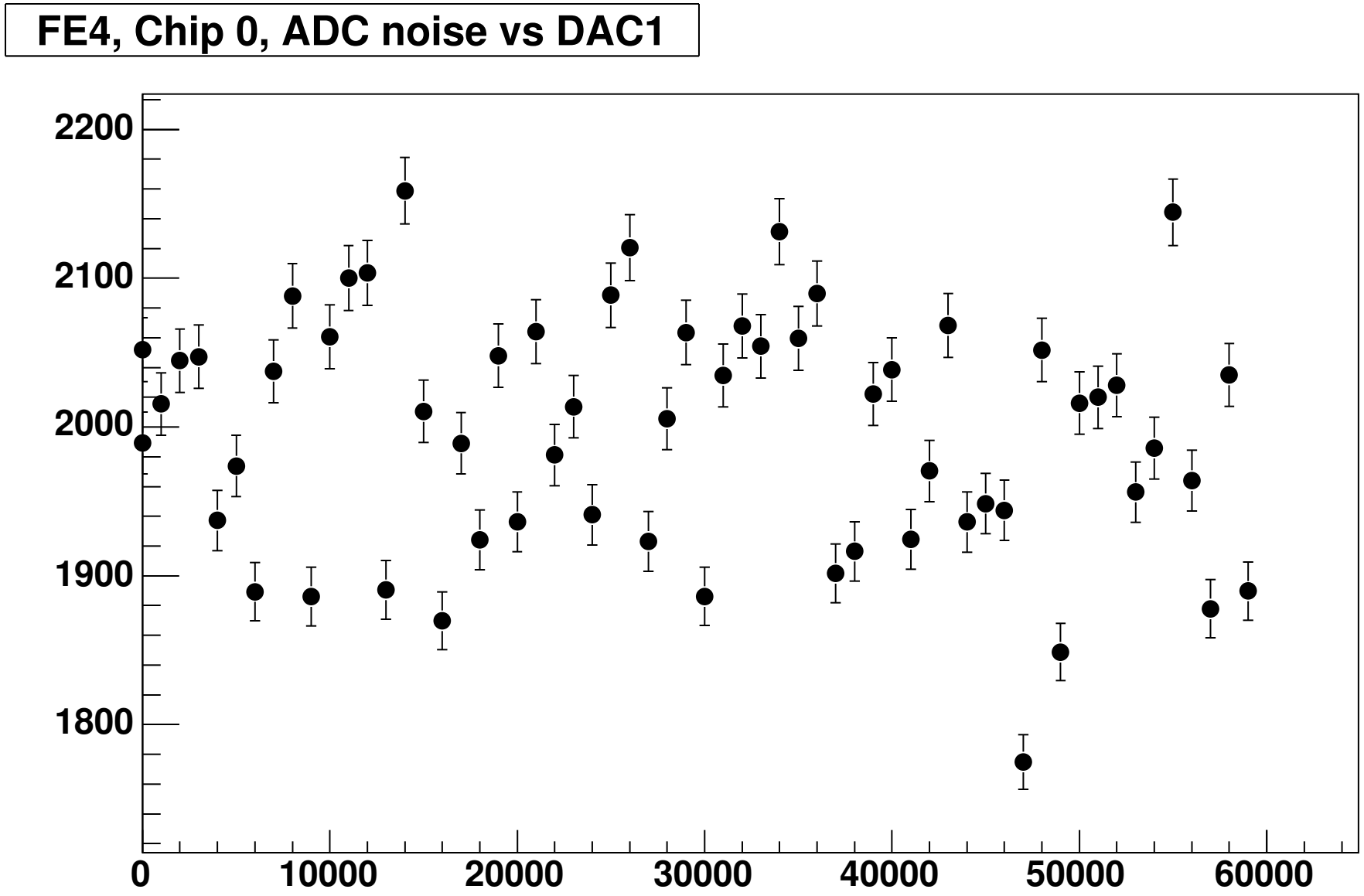
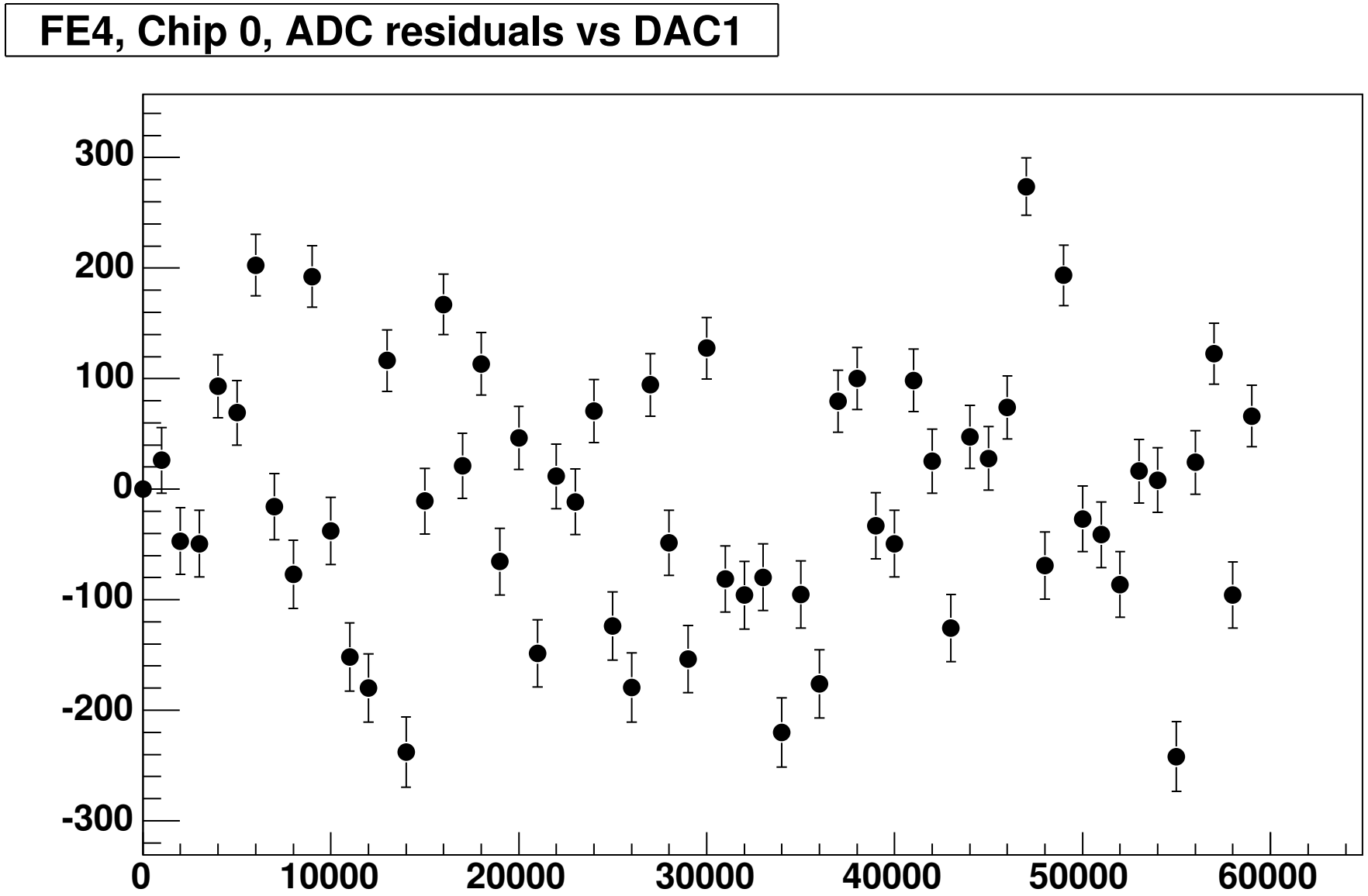
30000
40000
50000
60000


FE4, Chip 0, ADC residuals vs DAC0
4000
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 0, ADC mean vs DAC1
χ² / ndf 915.4 / 57
p0 3927 ± 7.76
p1 0.0003995 ± 0.0002235
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE4, Chip 0, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE4, Chip 0, ADC residuals vs DAC1
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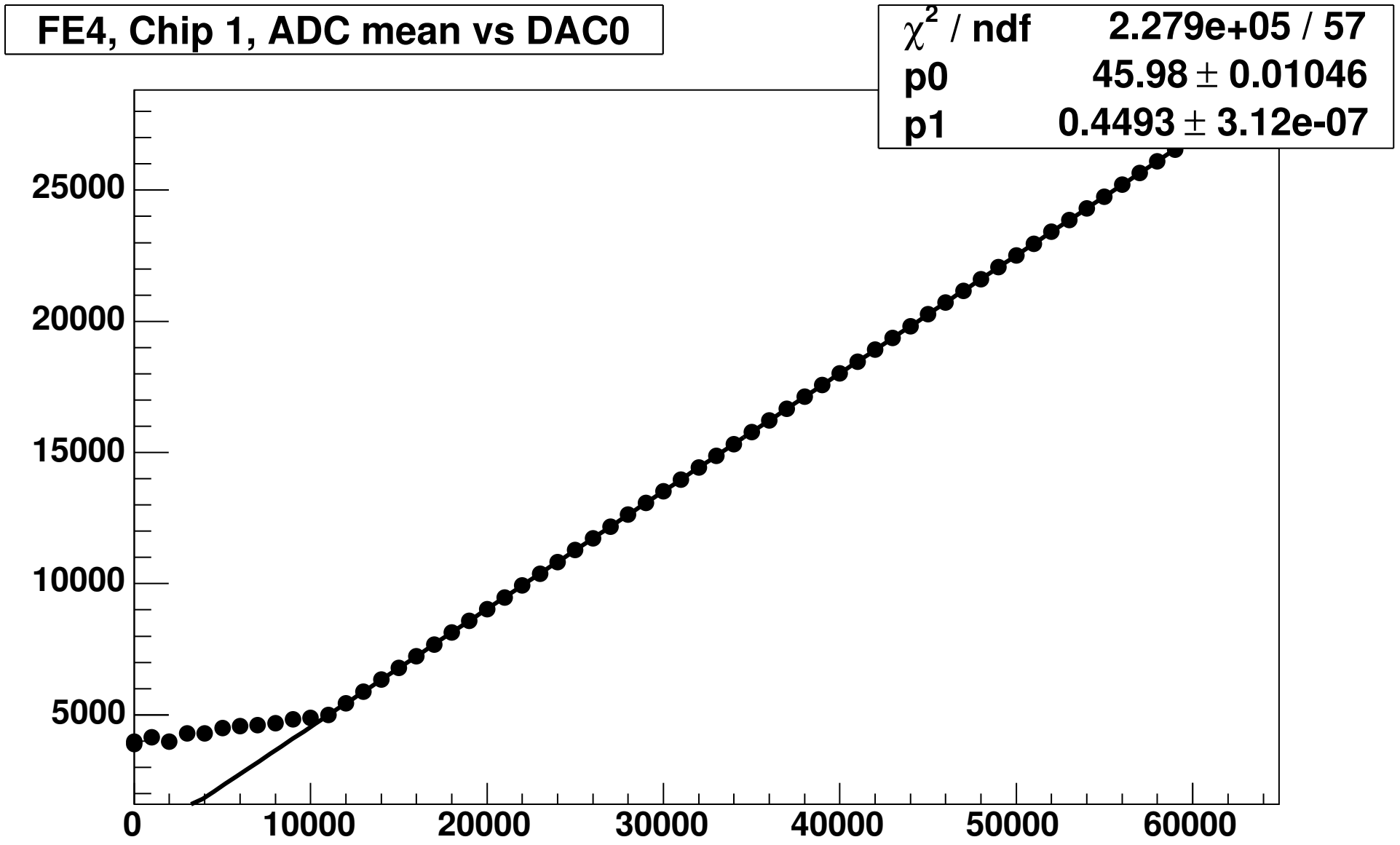
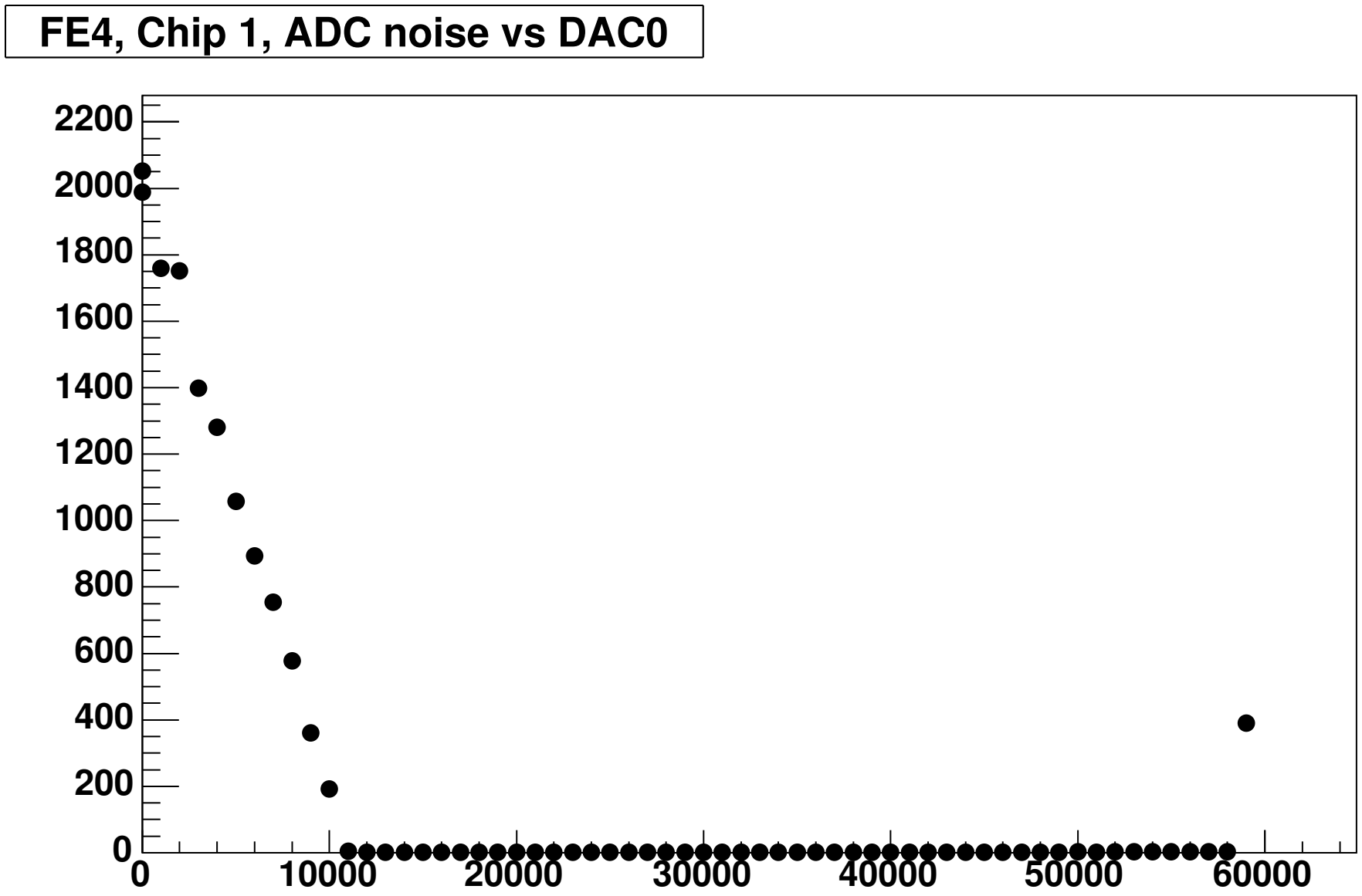
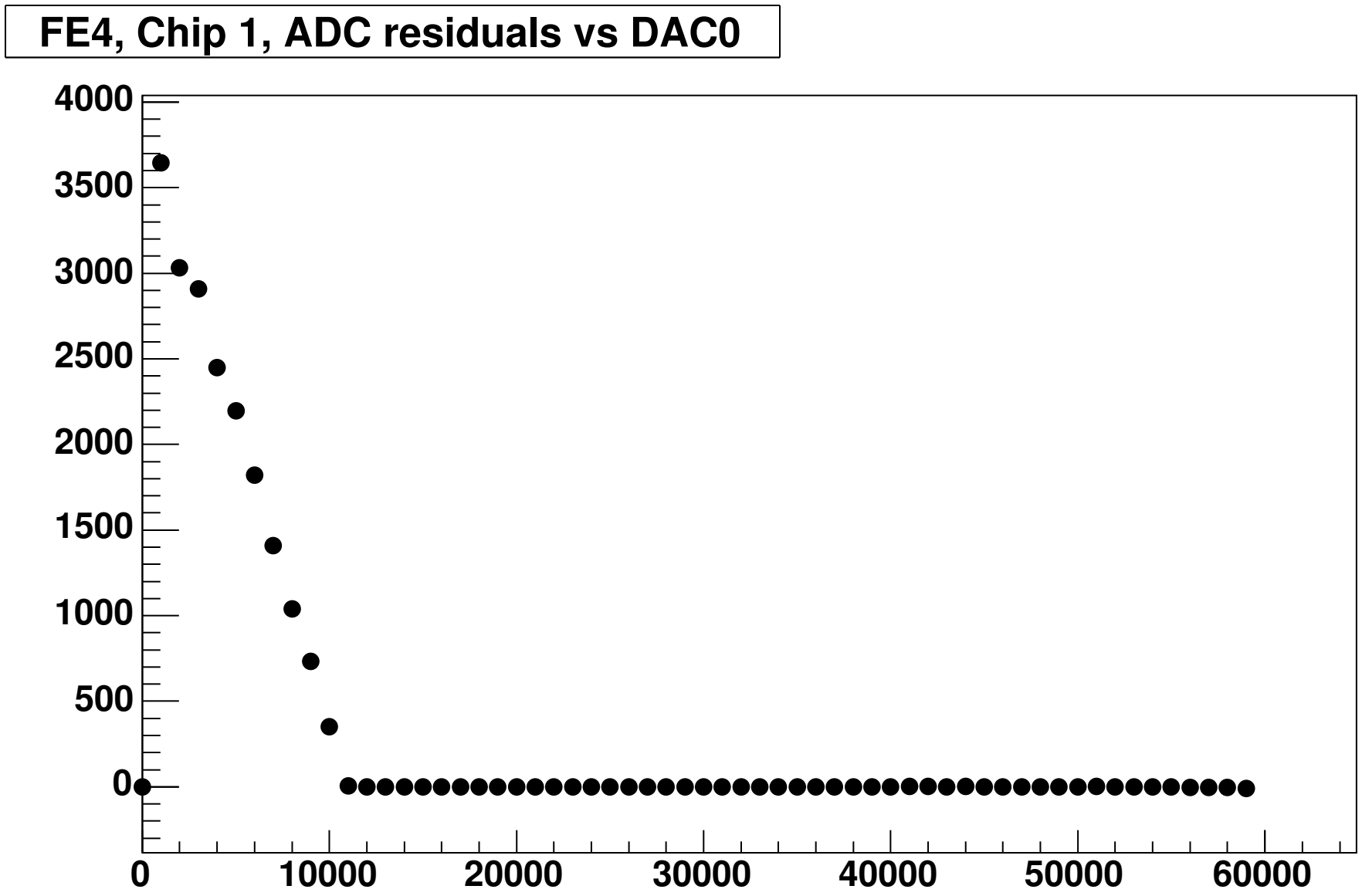
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE4, Chip 1, ADC mean vs DAC0
χ² / ndf 2.279e+05 / 57
p0 45.98 ± 0.01046
p1 0.4493 ± 3.12e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE4, Chip 1, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 1, ADC residuals vs DAC0
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2500
2000
1500
1000
500
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0
10000
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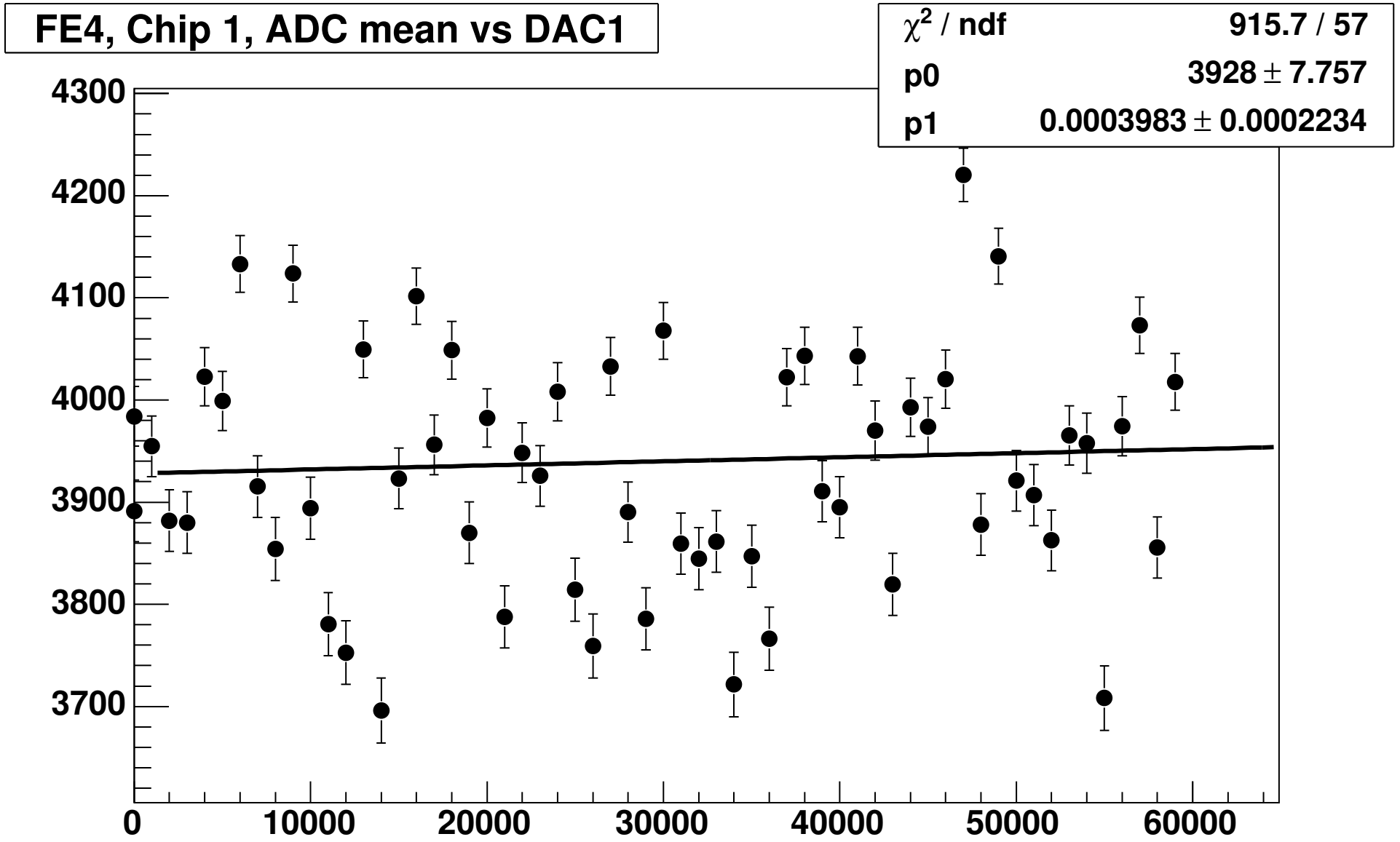
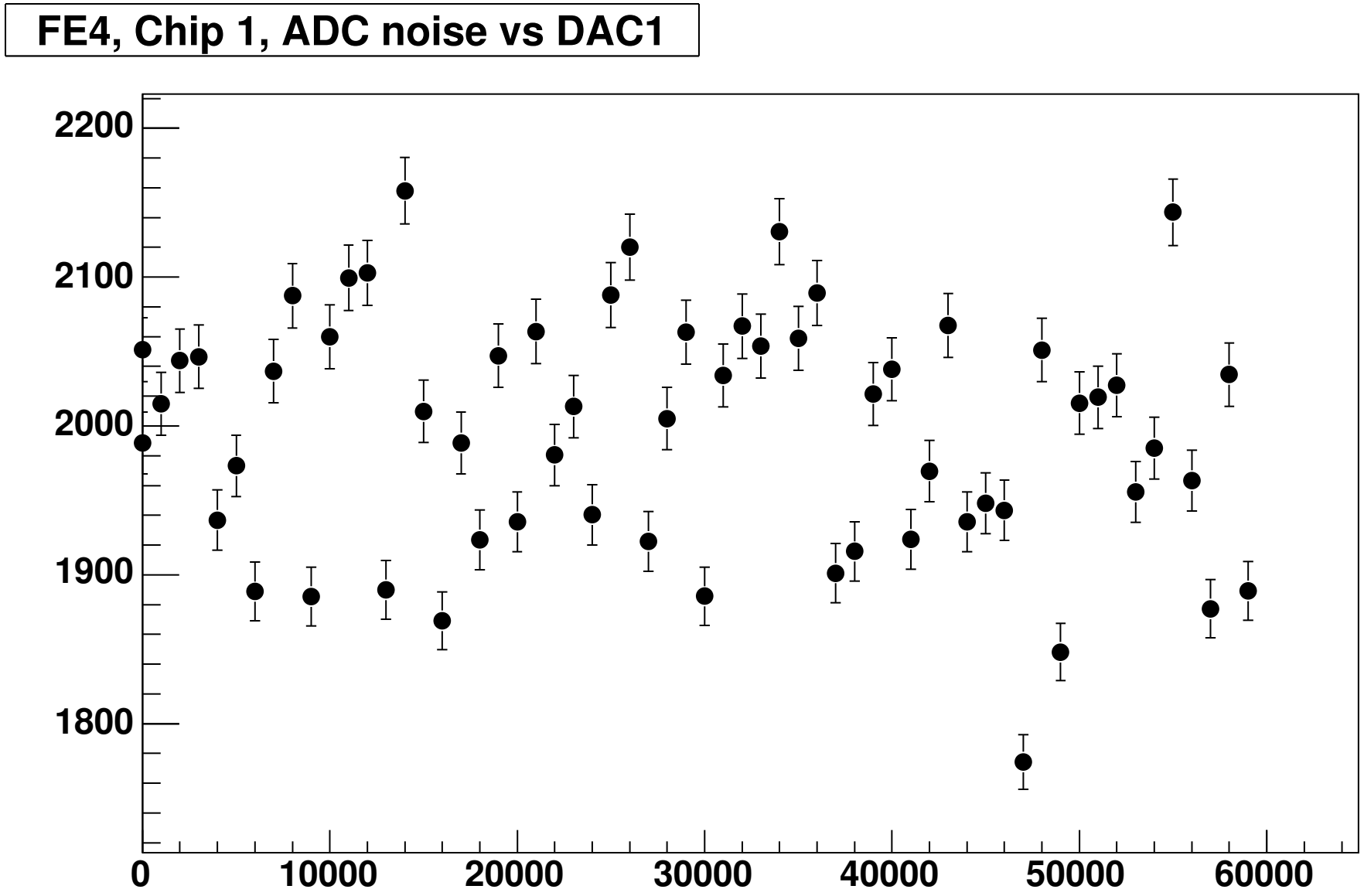

FE4, Chip 1, ADC mean vs DAC1
χ² / ndf 915.7 / 57
p0 3928 ± 7.757
p1 0.0003983 ± 0.0002234
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE4, Chip 1, ADC noise vs DAC1
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2100
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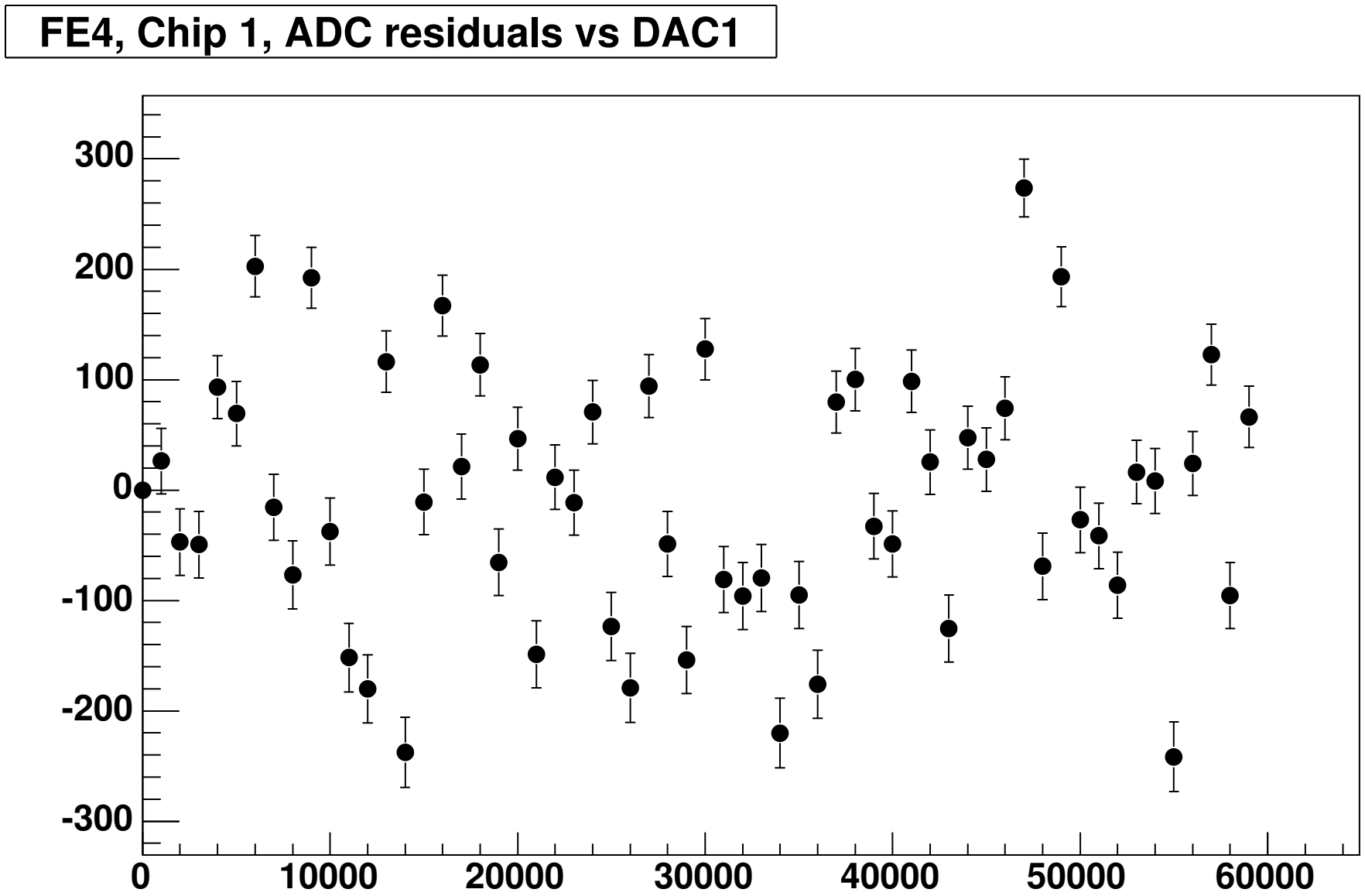
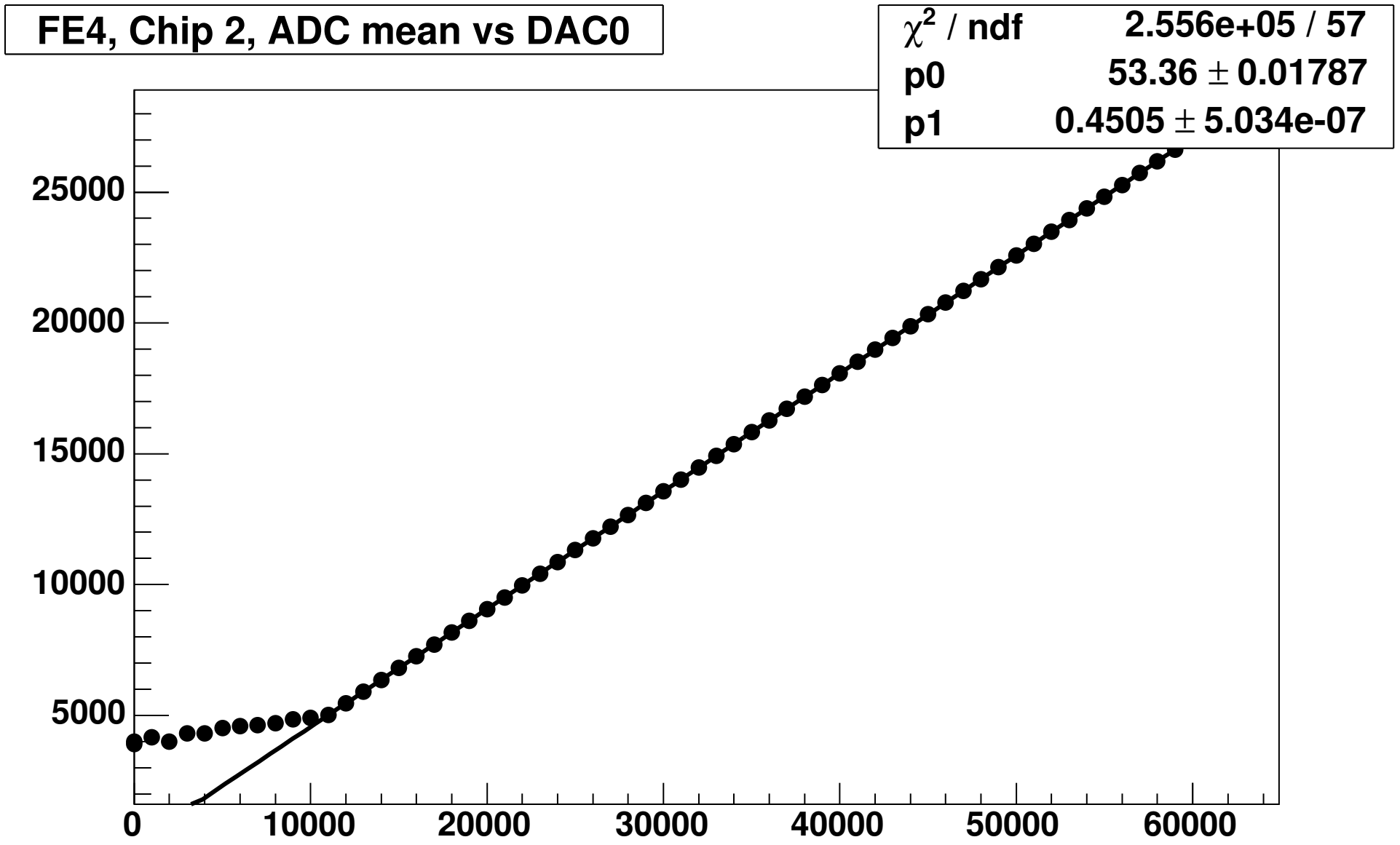
1900
1800
0
10000
20000
30000
40000
50000
60000


FE4, Chip 1, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE4, Chip 2, ADC mean vs DAC0
χ² / ndf 2.556e+05 / 57
p0 53.36 ± 0.01787
p1 0.4505 ± 5.034e-07
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20000
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0
10000
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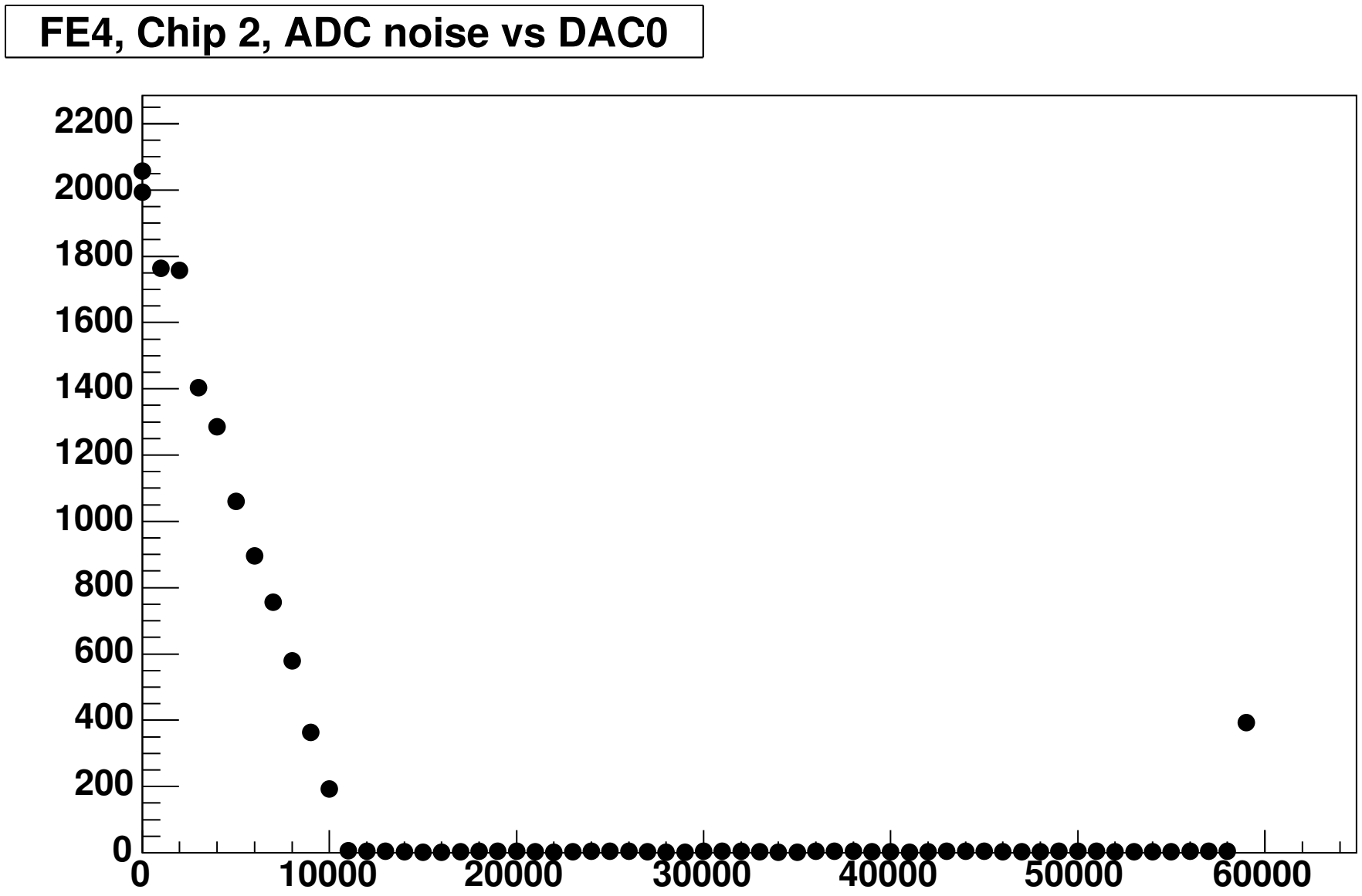
60000


FE4, Chip 2, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
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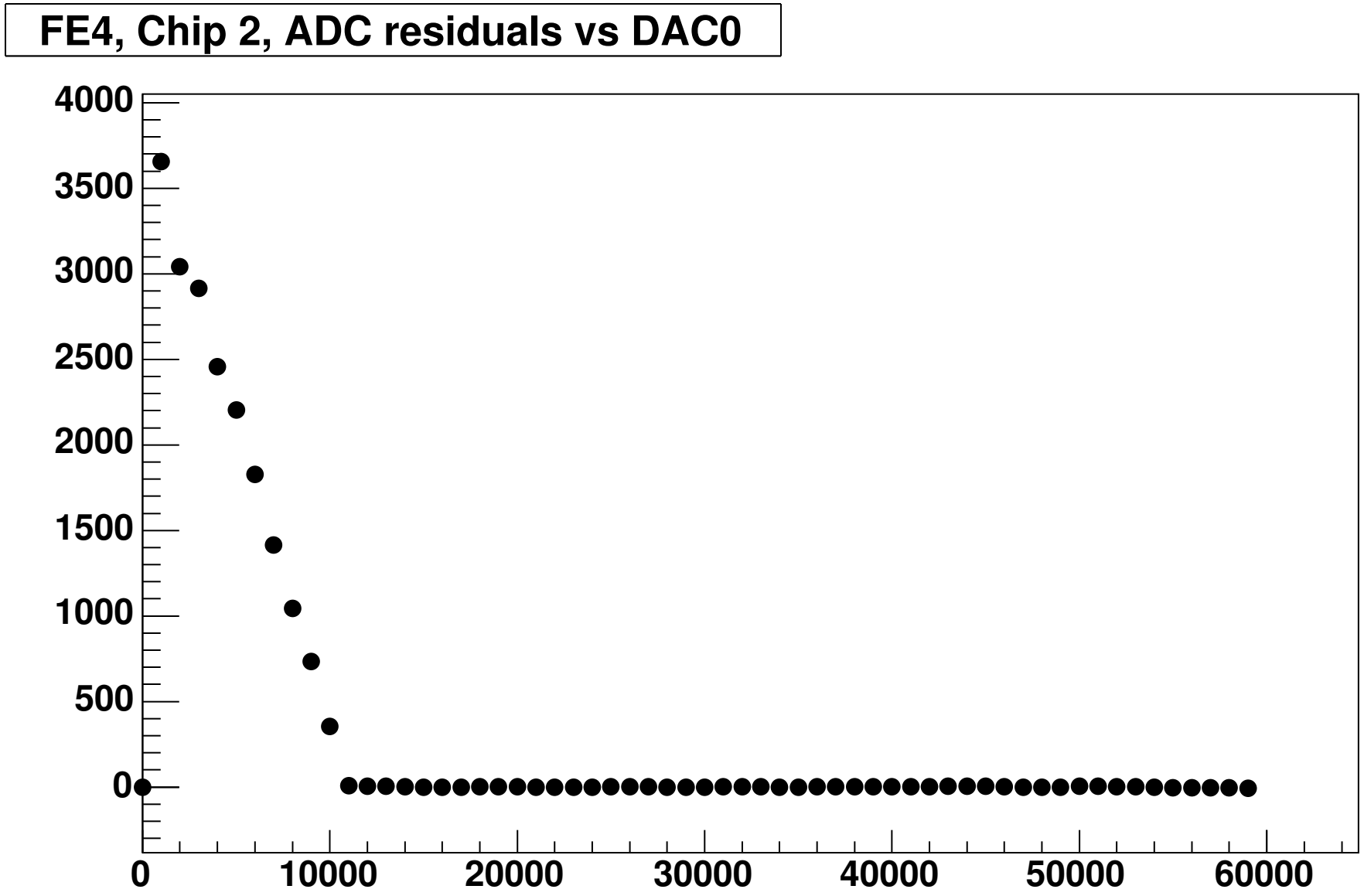
FE4, Chip 2, ADC residuals vs DAC0
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3500
3000
2500
2000
1500
1000
500
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10000
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30000
40000
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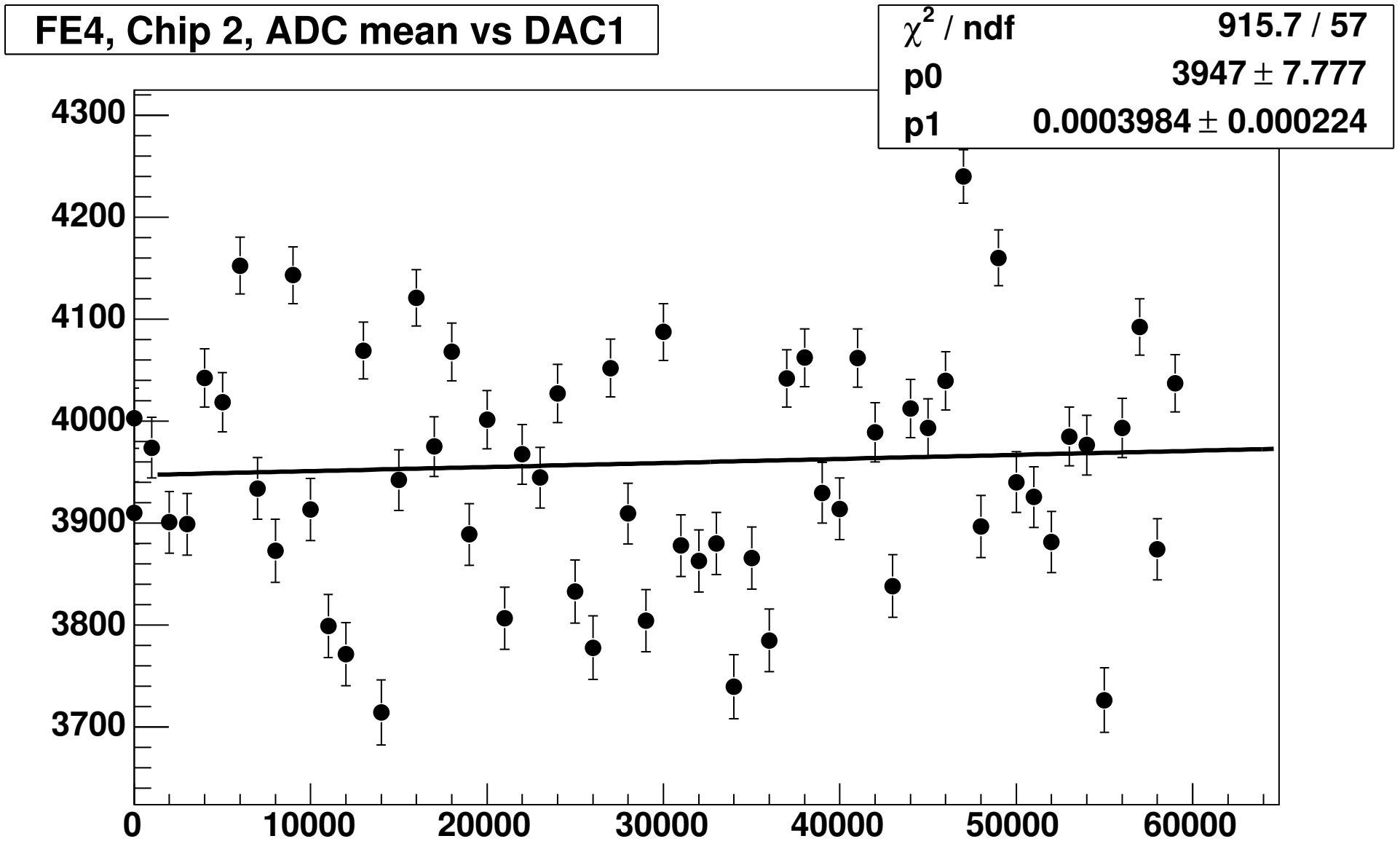
FE4, Chip 2, ADC mean vs DAC1
χ² / ndf 915.7 / 57
p0 3947 ± 7.777
p1 0.0003984 ± 0.000224
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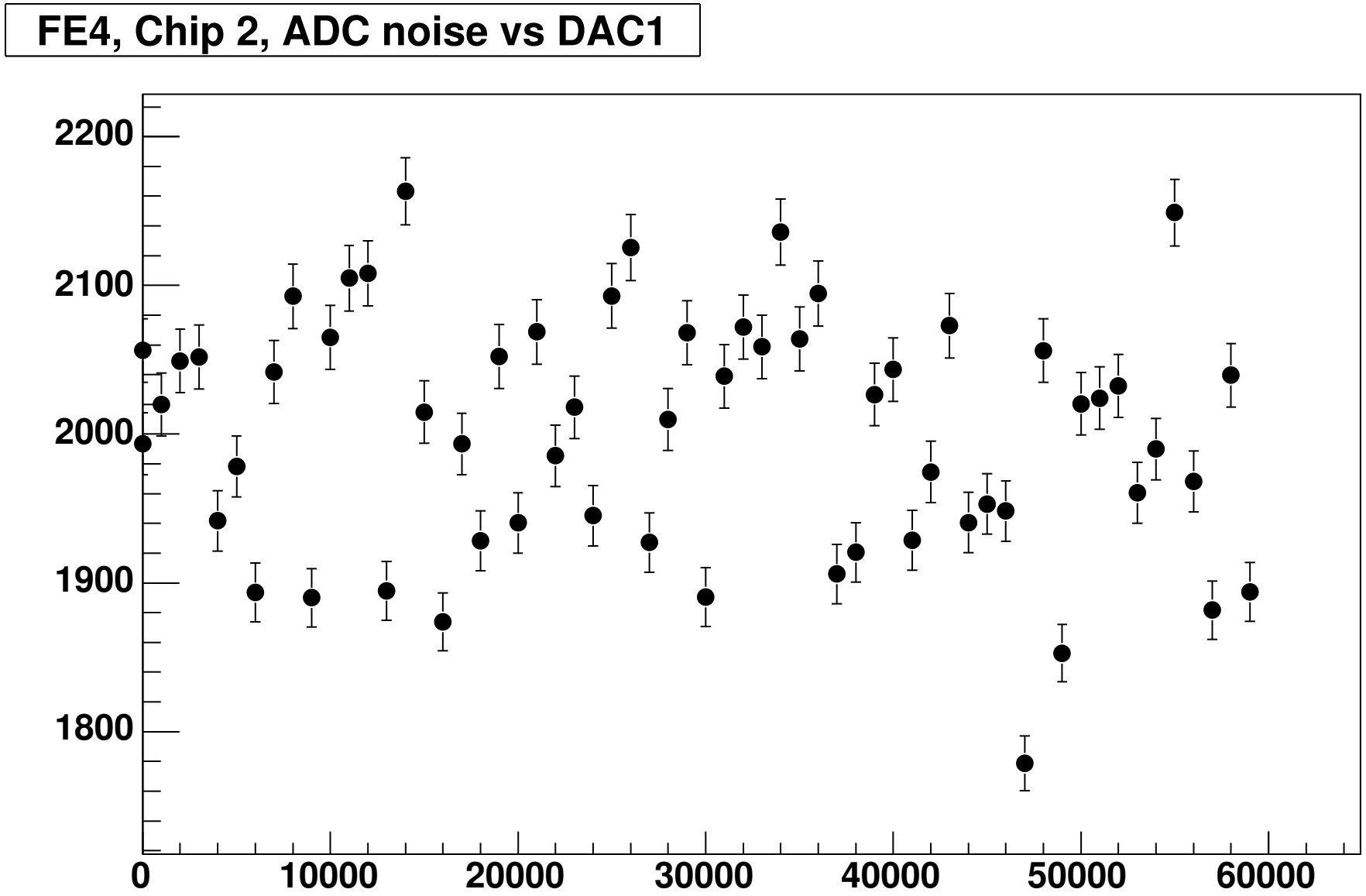
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE4, Chip 2, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
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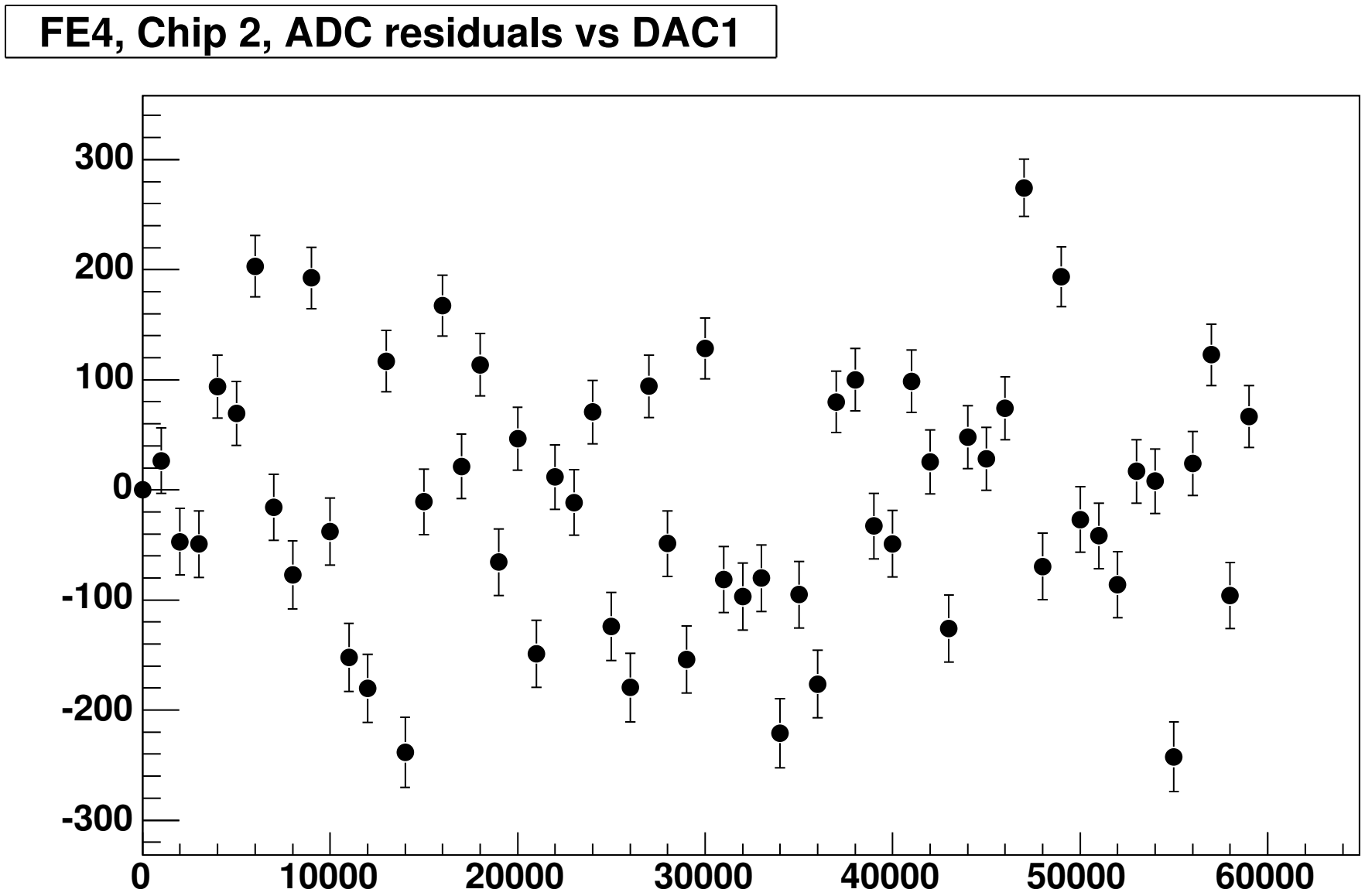
FE4, Chip 2, ADC residuals vs DAC1
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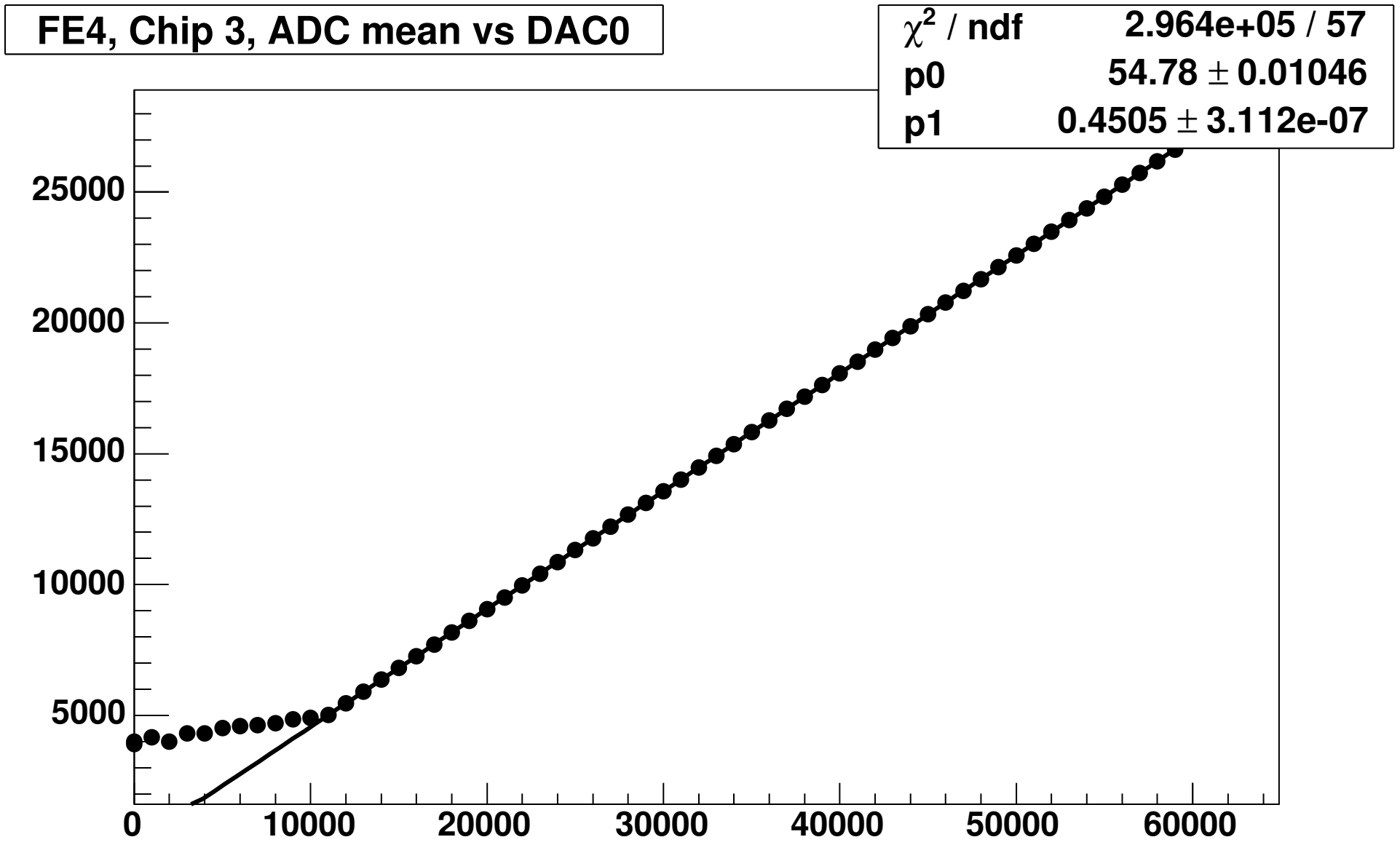
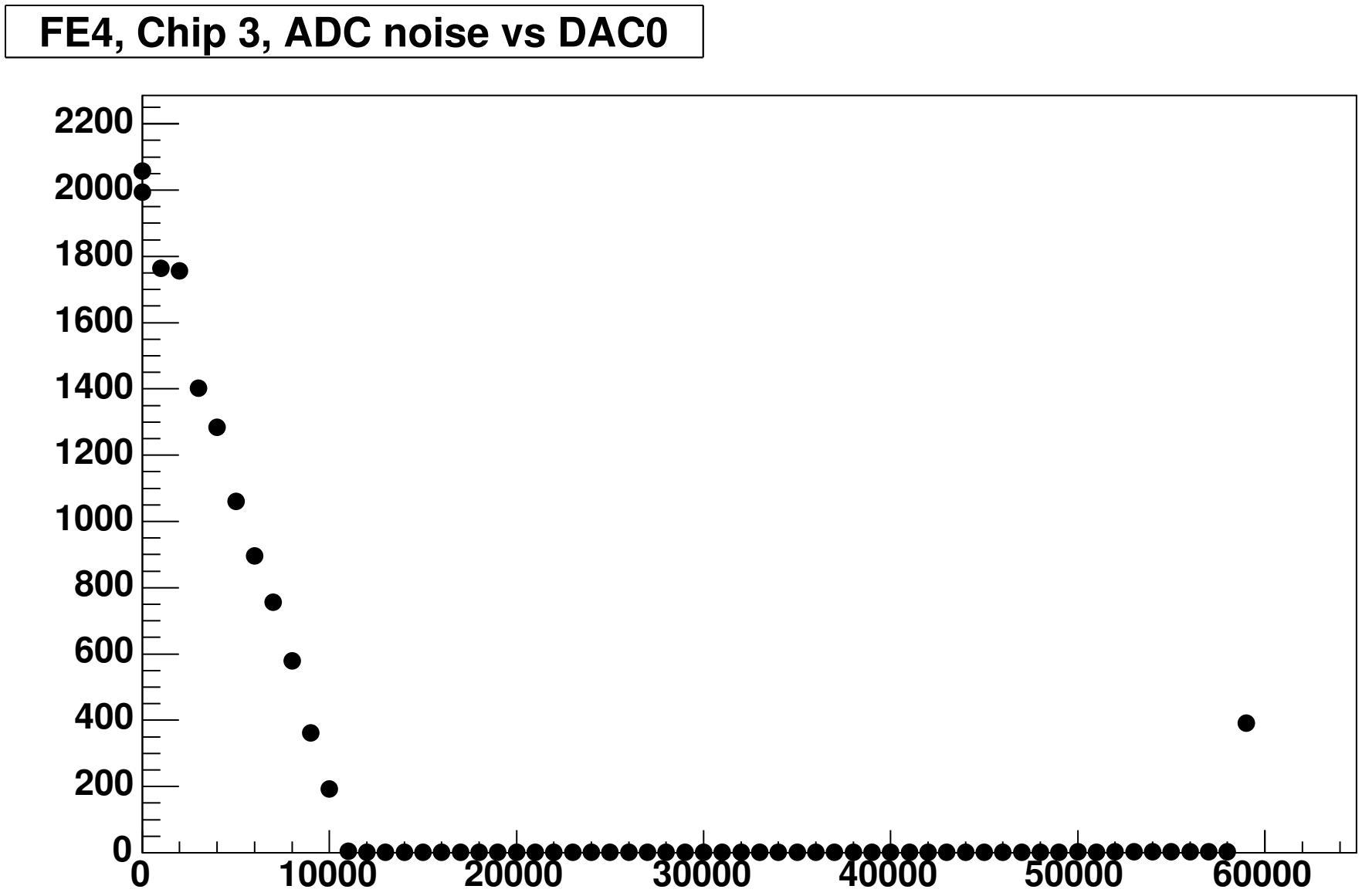
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE4, Chip 3, ADC mean vs DAC0
χ² / ndf 2.964e+05 / 57
p0 54.78 ± 0.01046
p1 0.4505 ± 3.112e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE4, Chip 3, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
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0
10000
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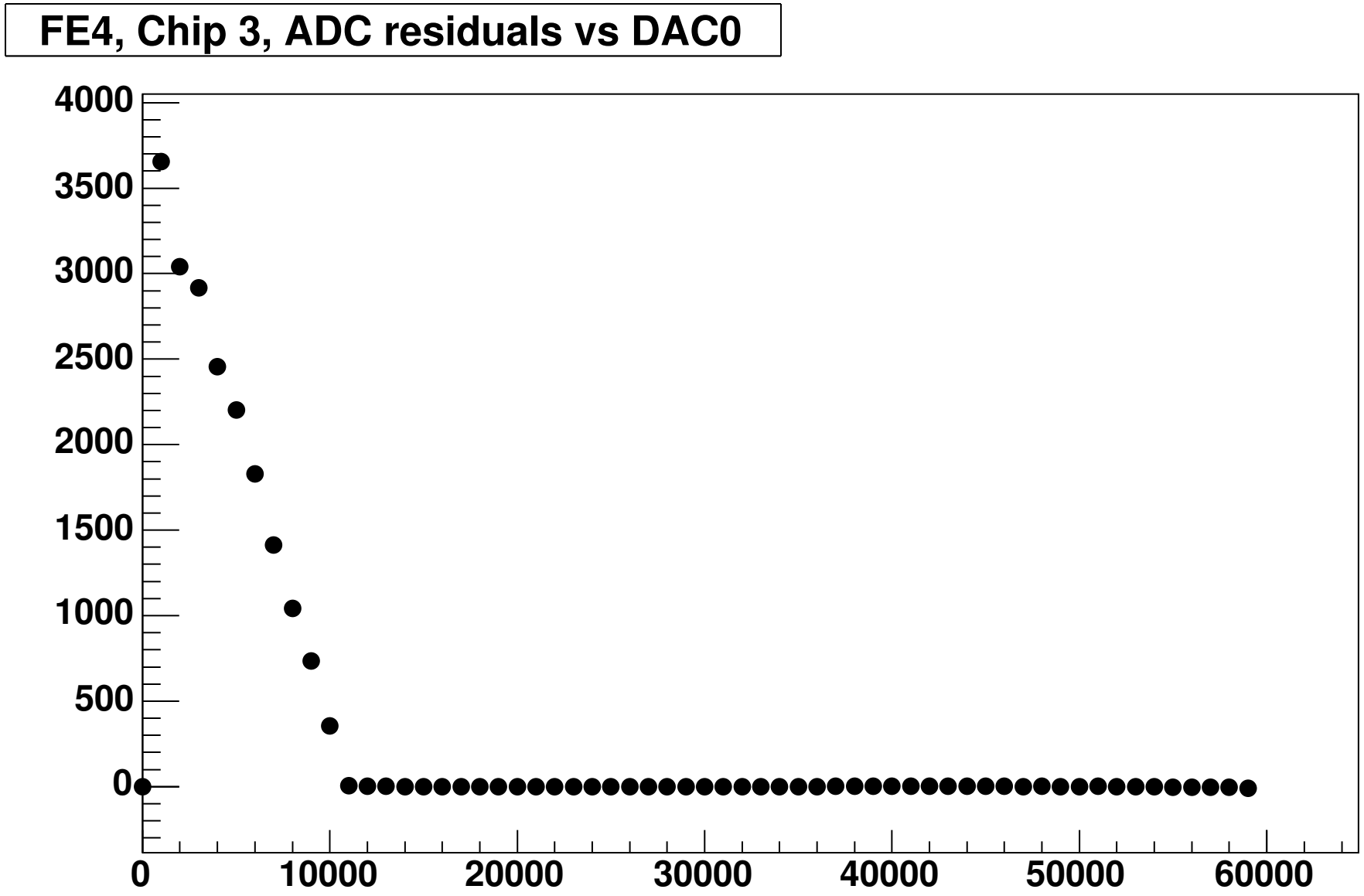
FE4, Chip 3, ADC residuals vs DAC0
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3500
3000
2500
2000
1500
1000
500
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0
10000
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40000
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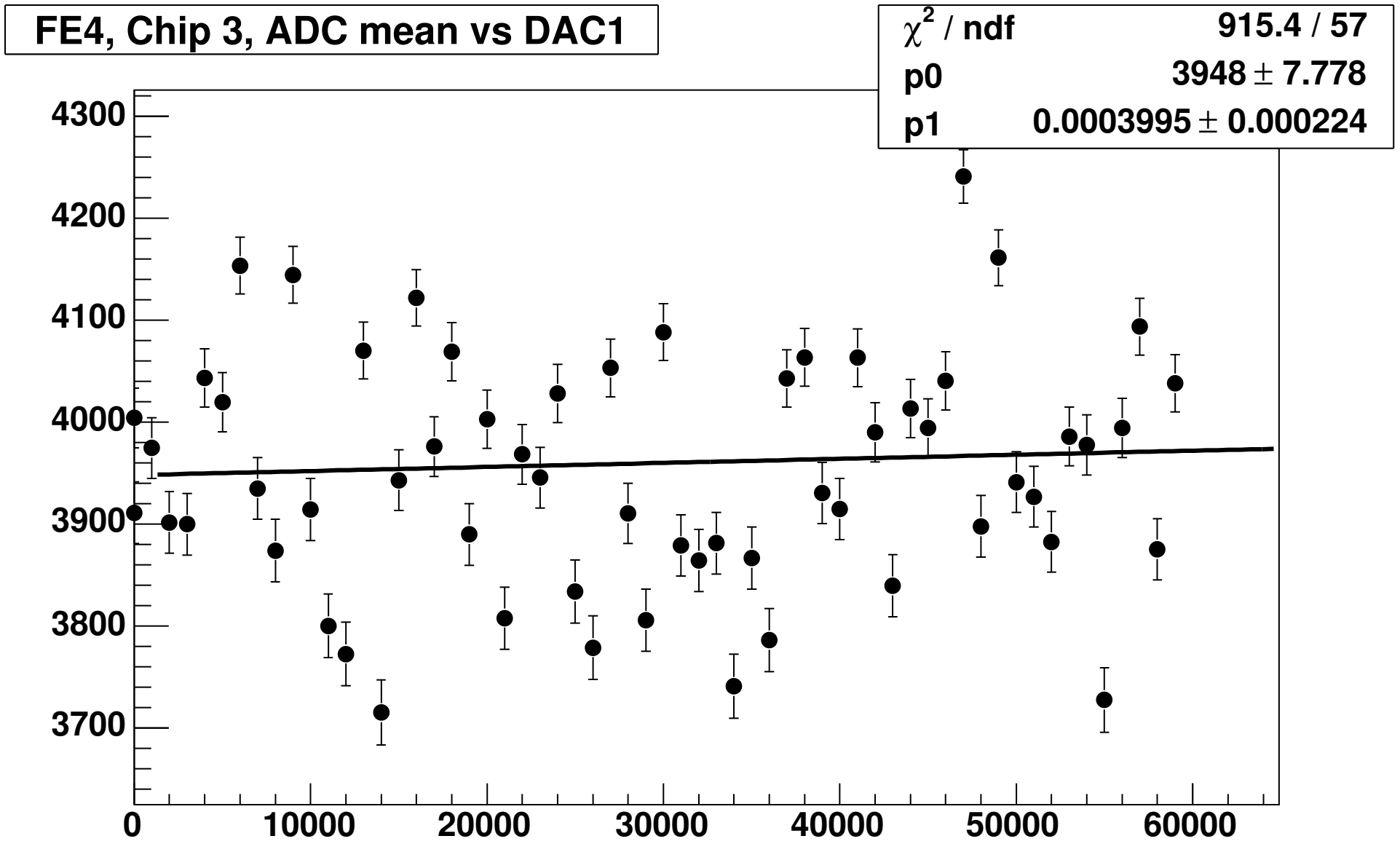
60000


FE4, Chip 3, ADC mean vs DAC1
χ² / ndf 915.4 / 57
p0 3948 ± 7.778
p1 0.0003995 ± 0.000224
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4200
4100
4000
3900
3800
3700
0
10000
20000
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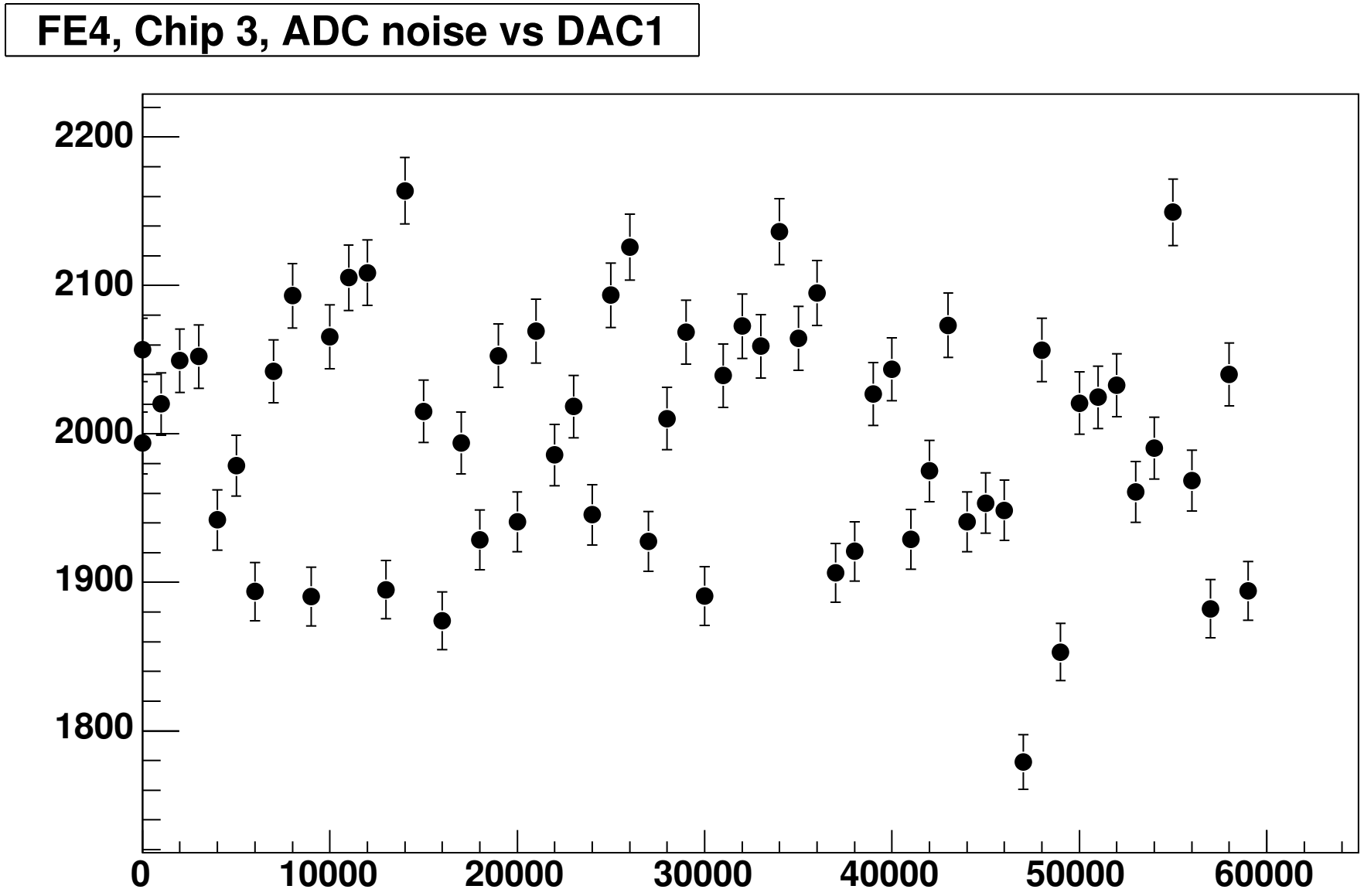
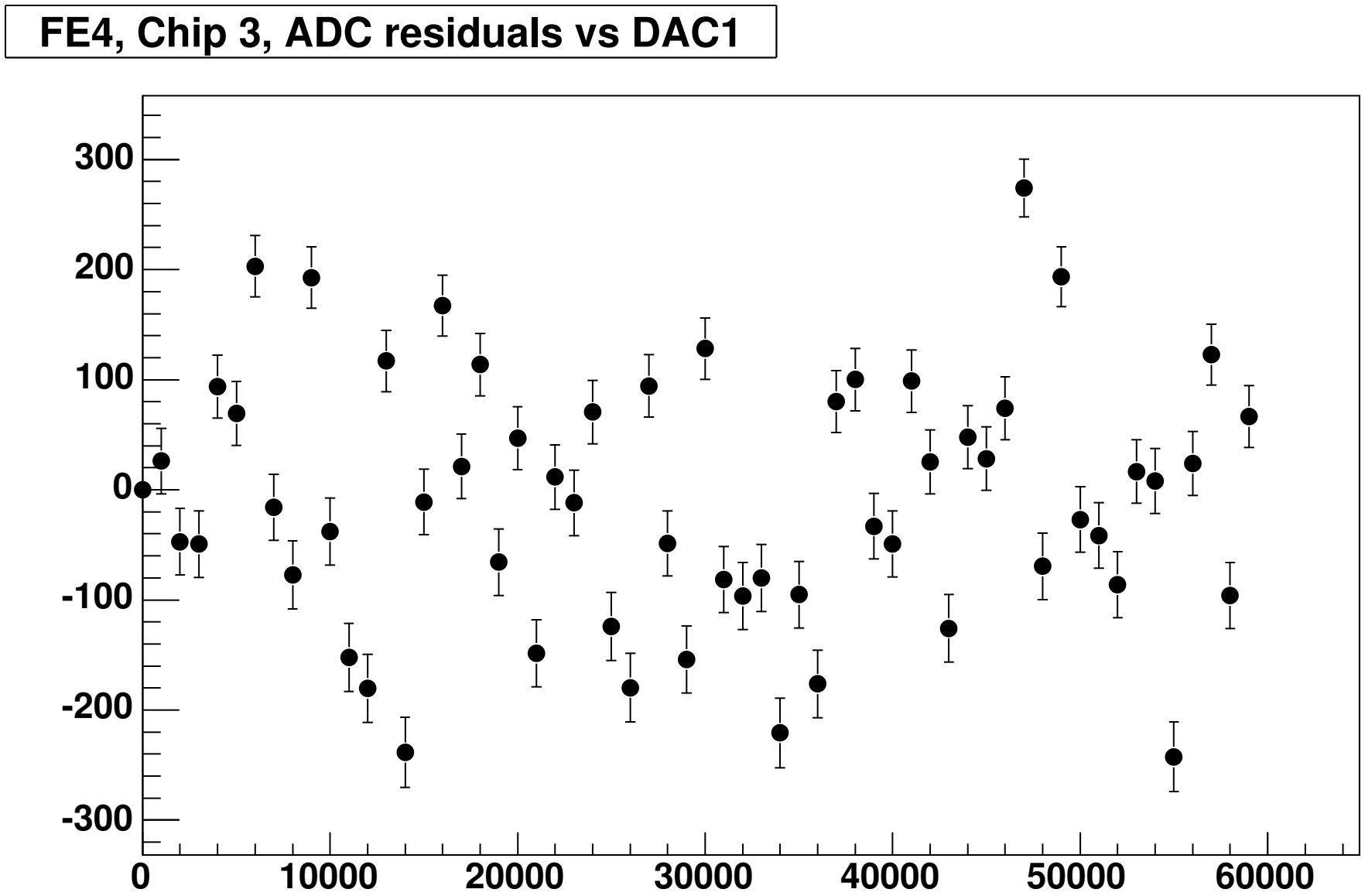
40000
50000
60000


FE4, Chip 3, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE4, Chip 3, ADC residuals vs DAC1
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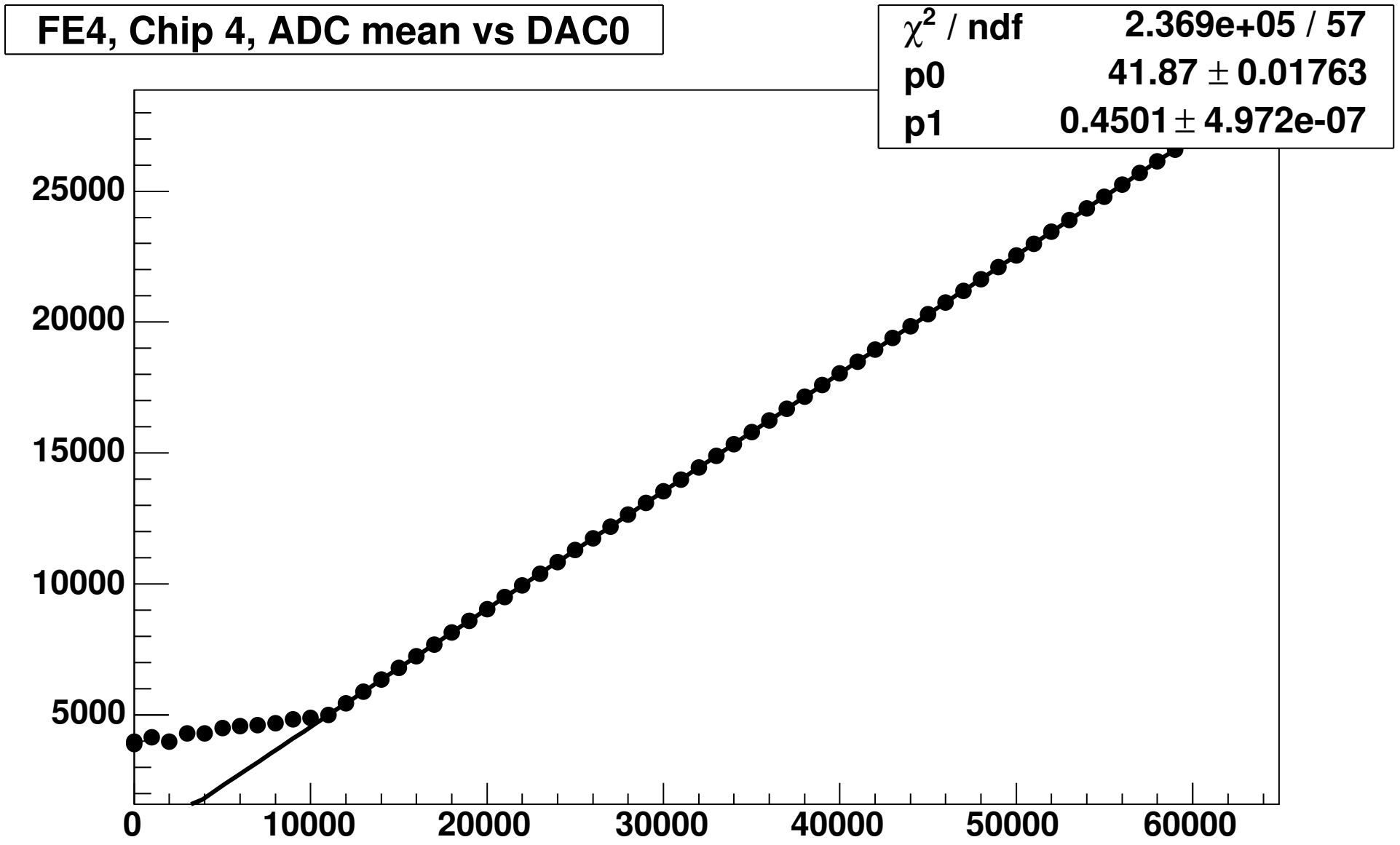
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE4, Chip 4, ADC mean vs DAC0
χ² / ndf 2.369e+05 / 57
p0 41.87 ± 0.01763
p1 0.4501 ± 4.972e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
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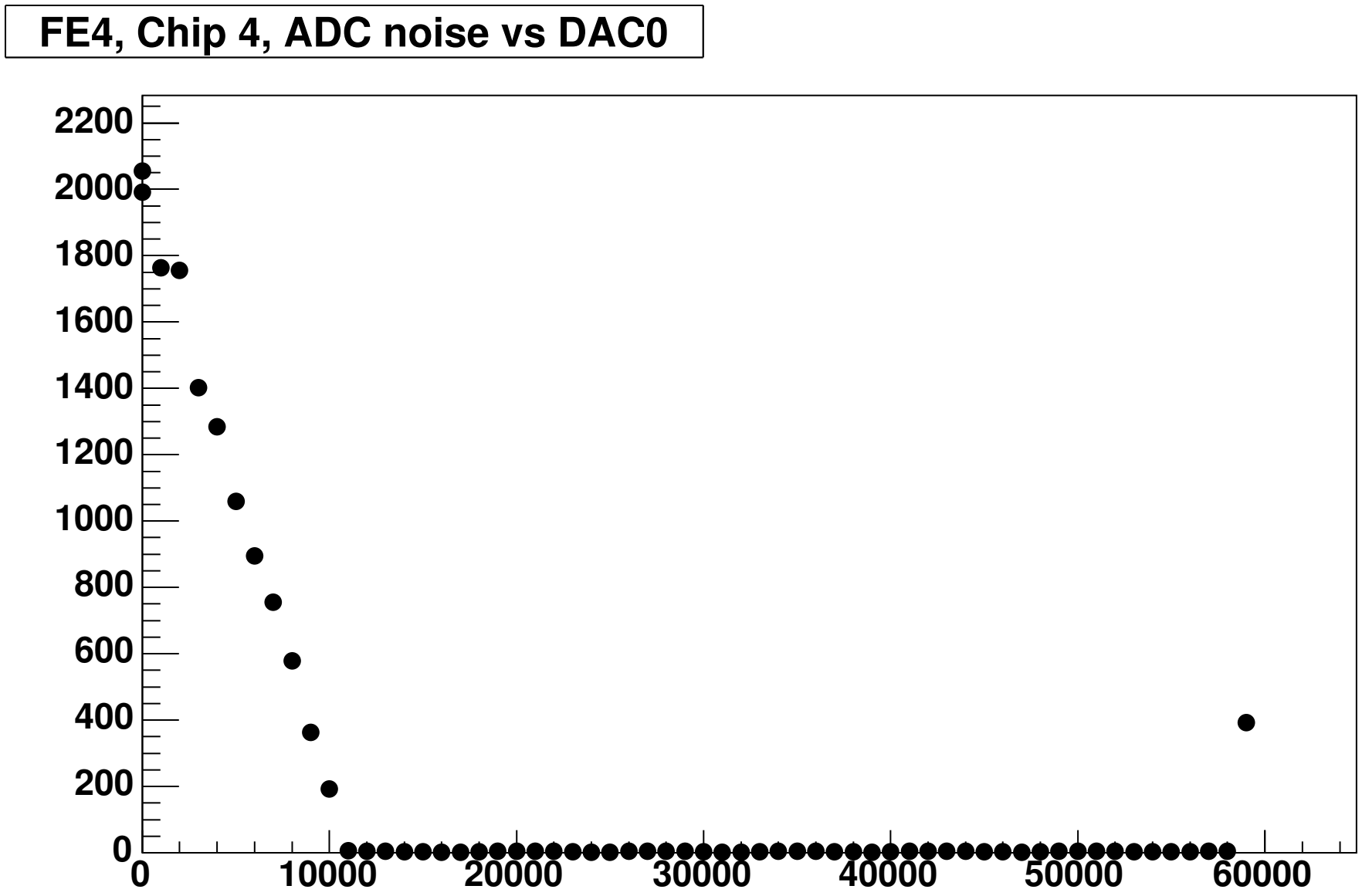
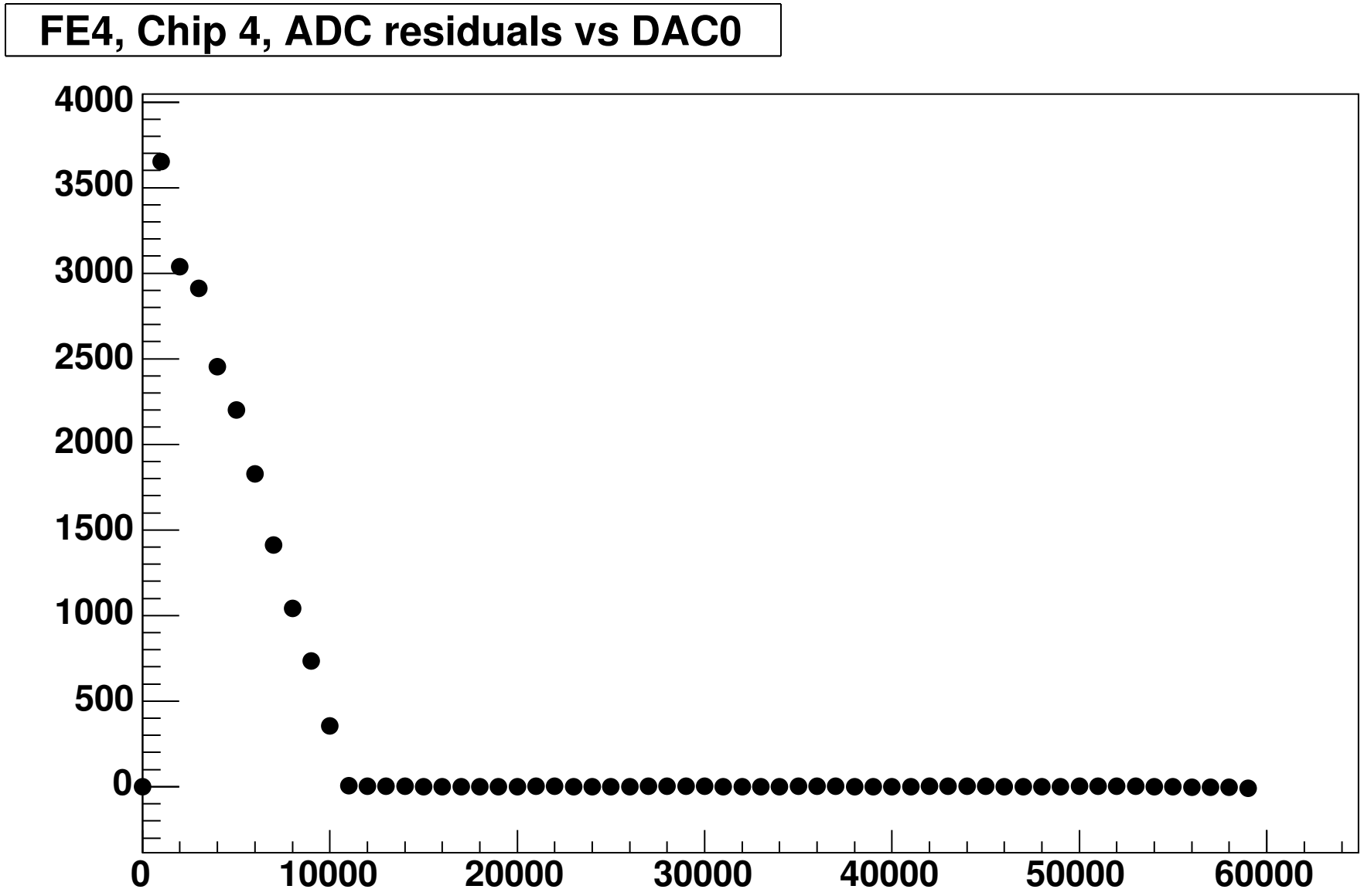
60000


FE4, Chip 4, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 4, ADC residuals vs DAC0
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3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
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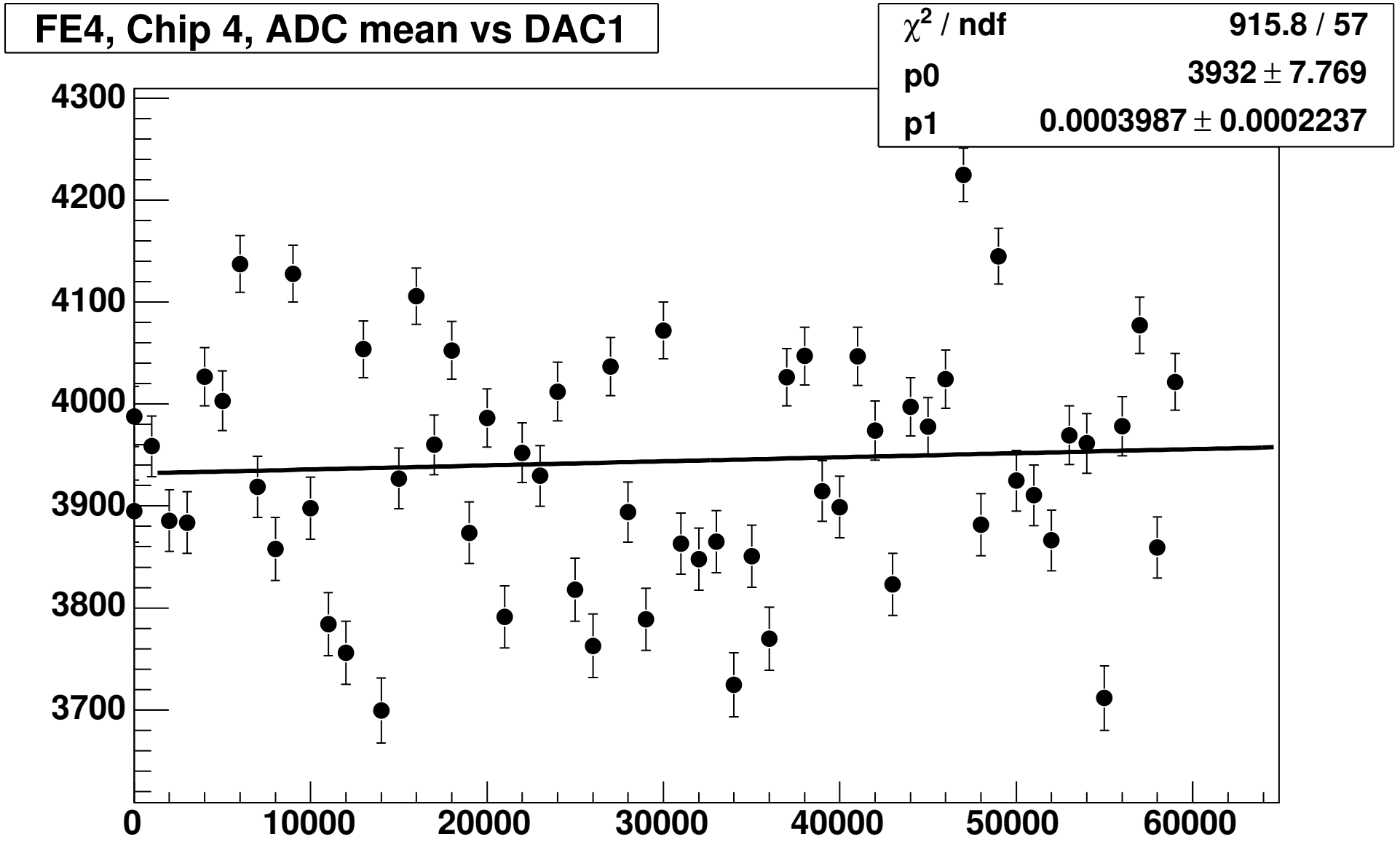
60000


FE4, Chip 4, ADC mean vs DAC1
χ² / ndf 915.8 / 57
p0 3932 ± 7.769
p1 0.0003987 ± 0.0002237
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4200
4100
4000
3900
3800
3700
0
10000
20000
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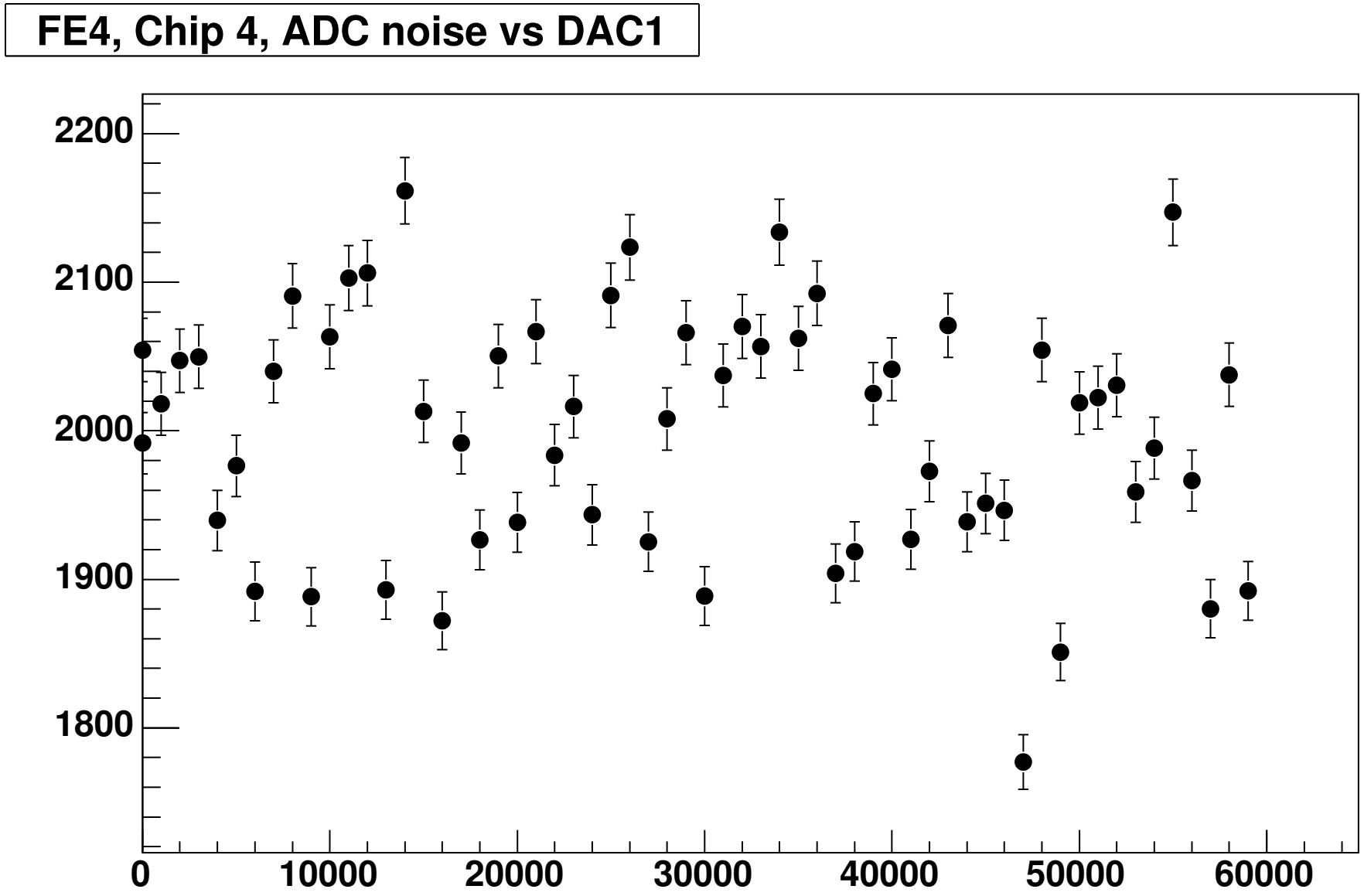
50000
60000


FE4, Chip 4, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
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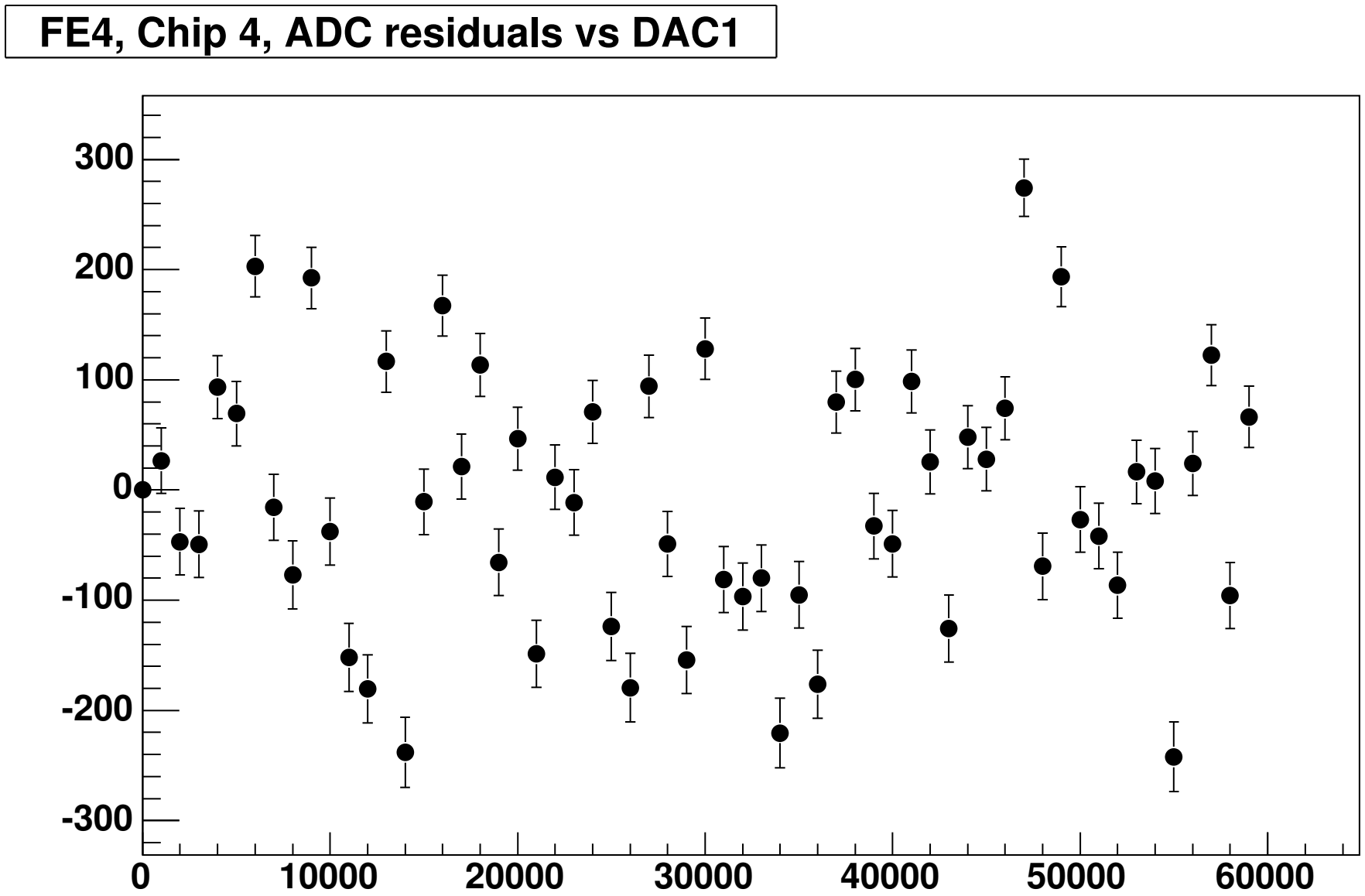
FE4, Chip 4, ADC residuals vs DAC1
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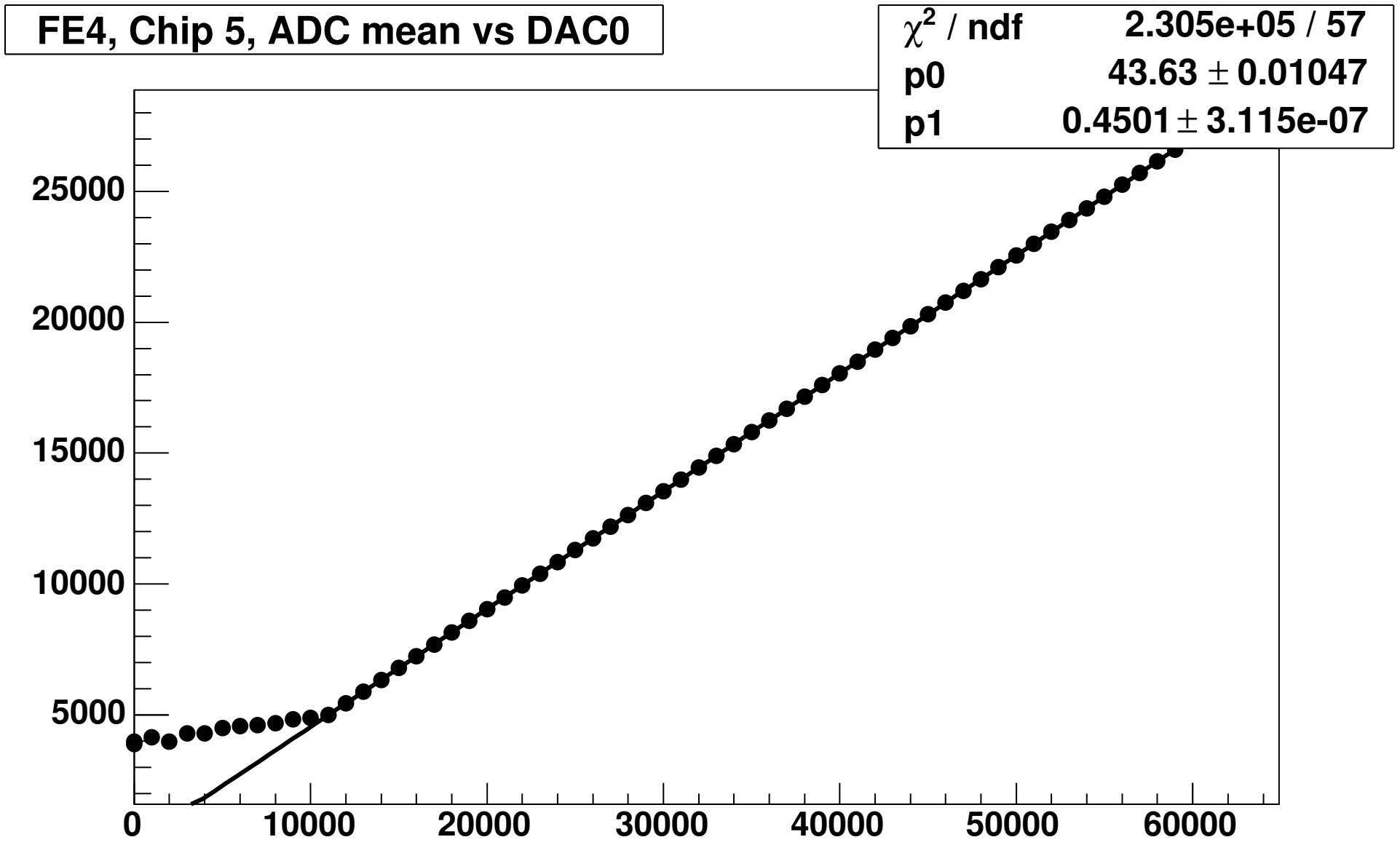
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE4, Chip 5, ADC mean vs DAC0
χ² / ndf 2.305e+05 / 57
p0 43.63 ± 0.01047
p1 0.4501 ± 3.115e-07
25000
20000
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0
10000
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40000
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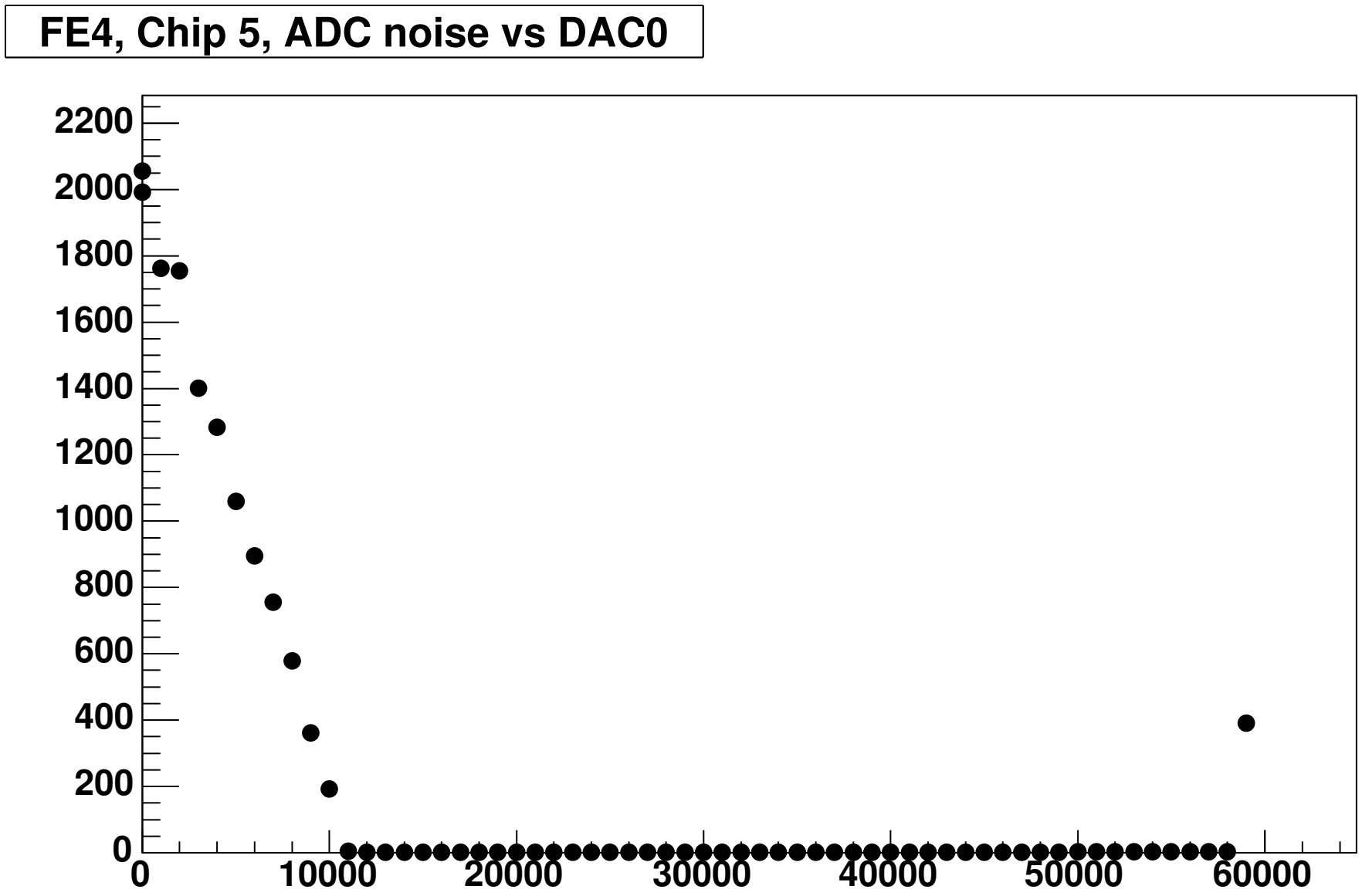
FE4, Chip 5, ADC noise vs DAC0
2200
2000
1800
1600
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1200
1000
800
600
400
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10000
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30000
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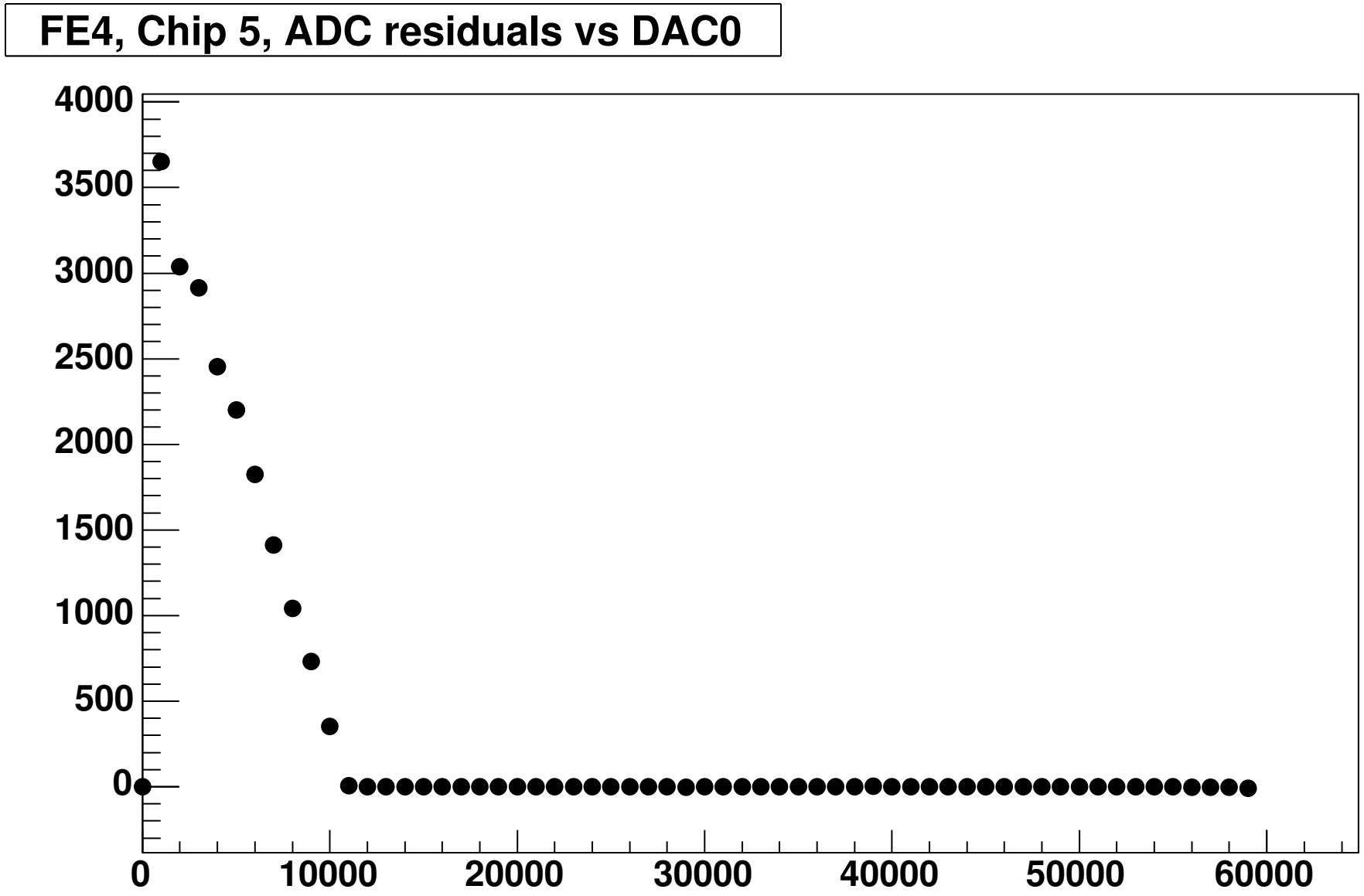
FE4, Chip 5, ADC residuals vs DAC0
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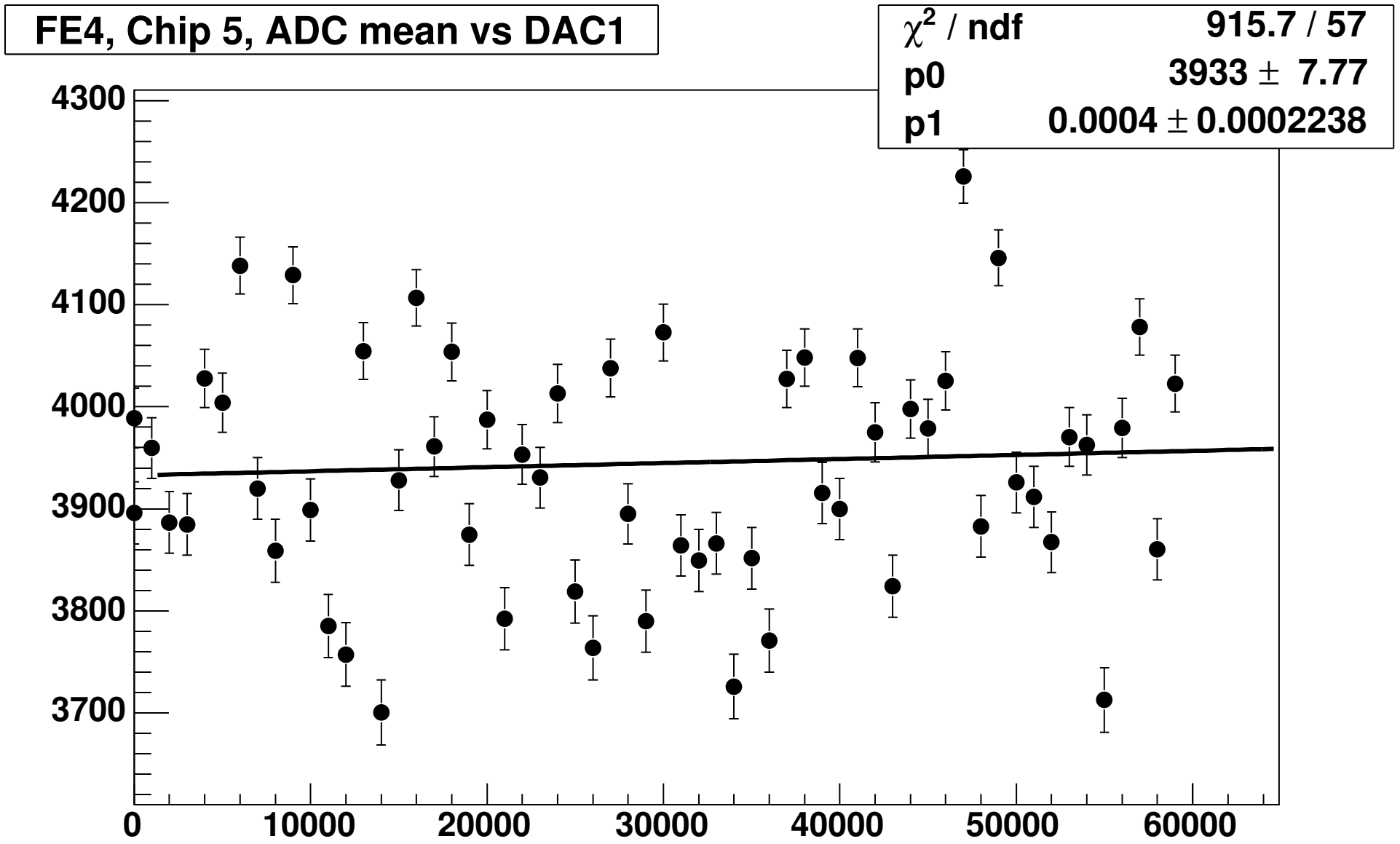
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 5, ADC mean vs DAC1
χ² / ndf 915.7 / 57
p0 3933 ± 7.77
p1 0.0004 ± 0.0002238
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4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
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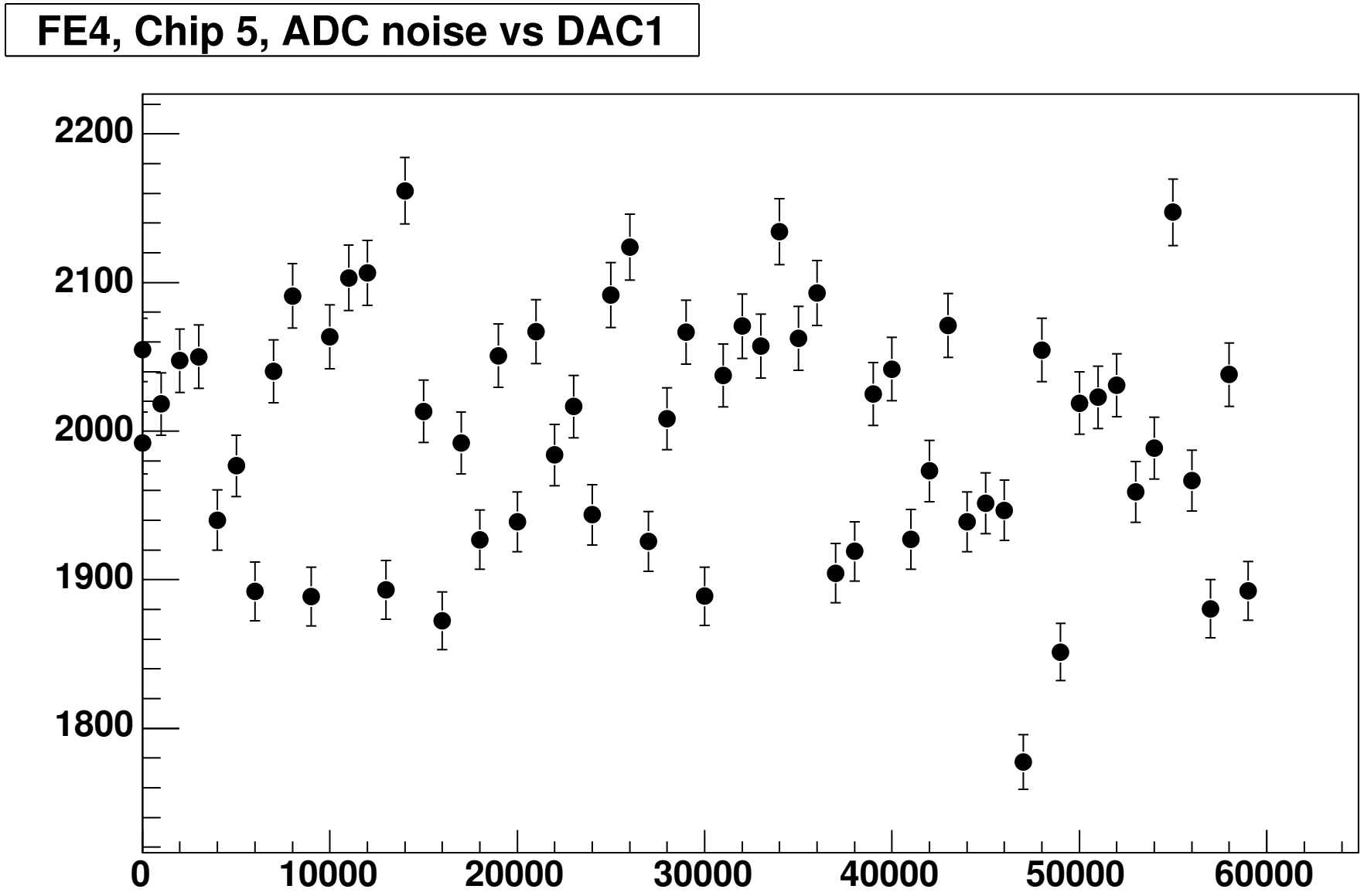
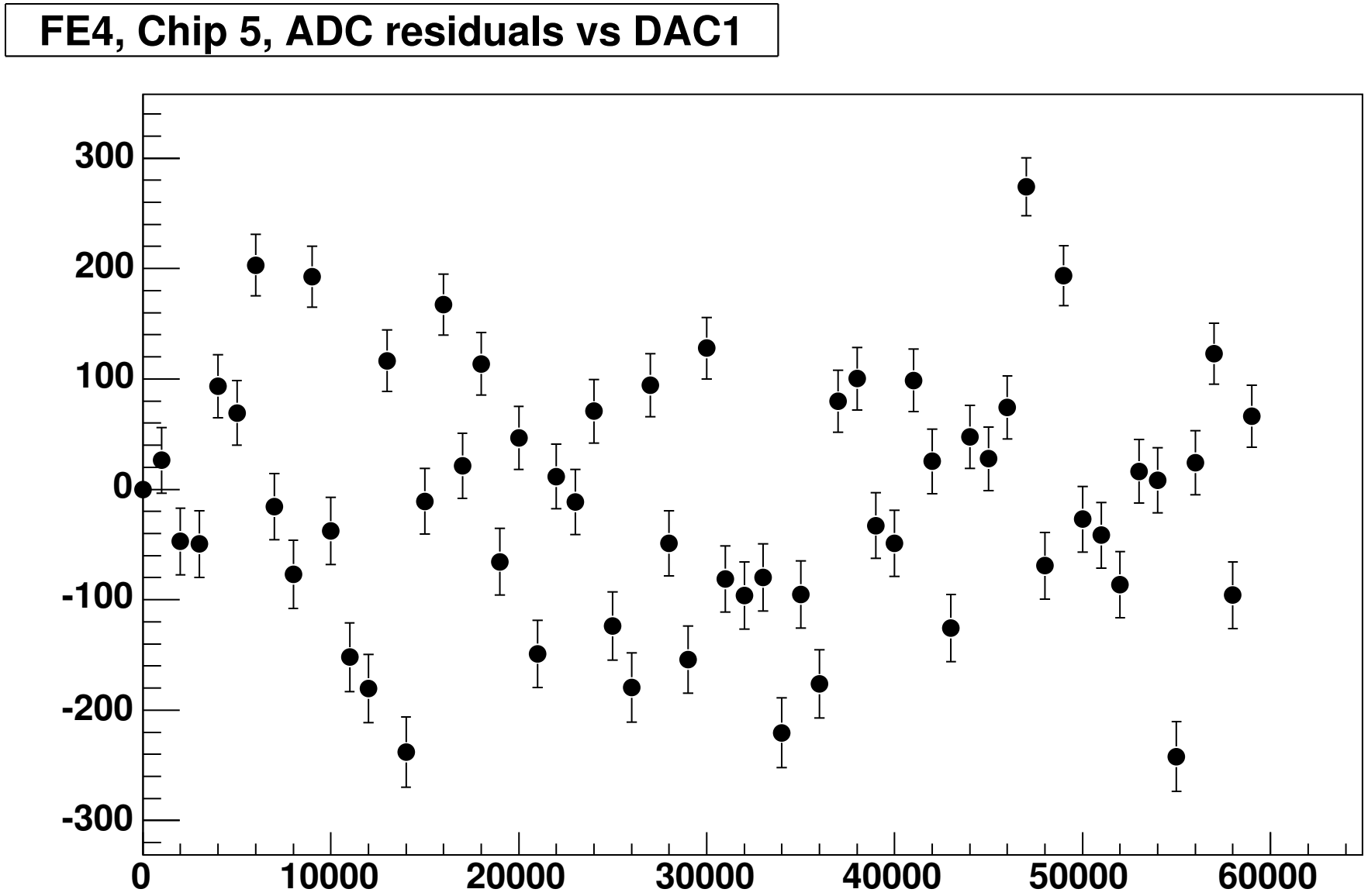
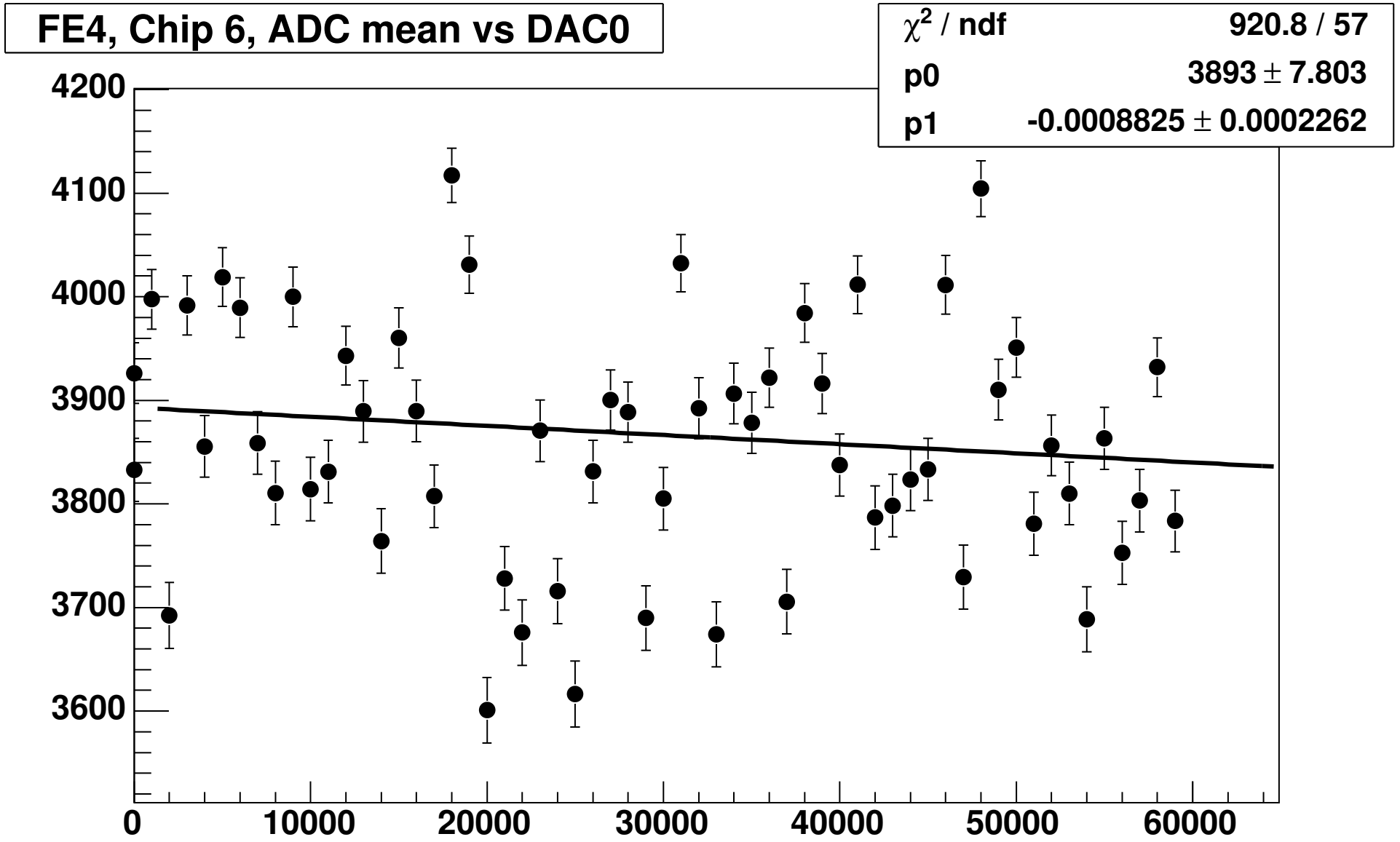
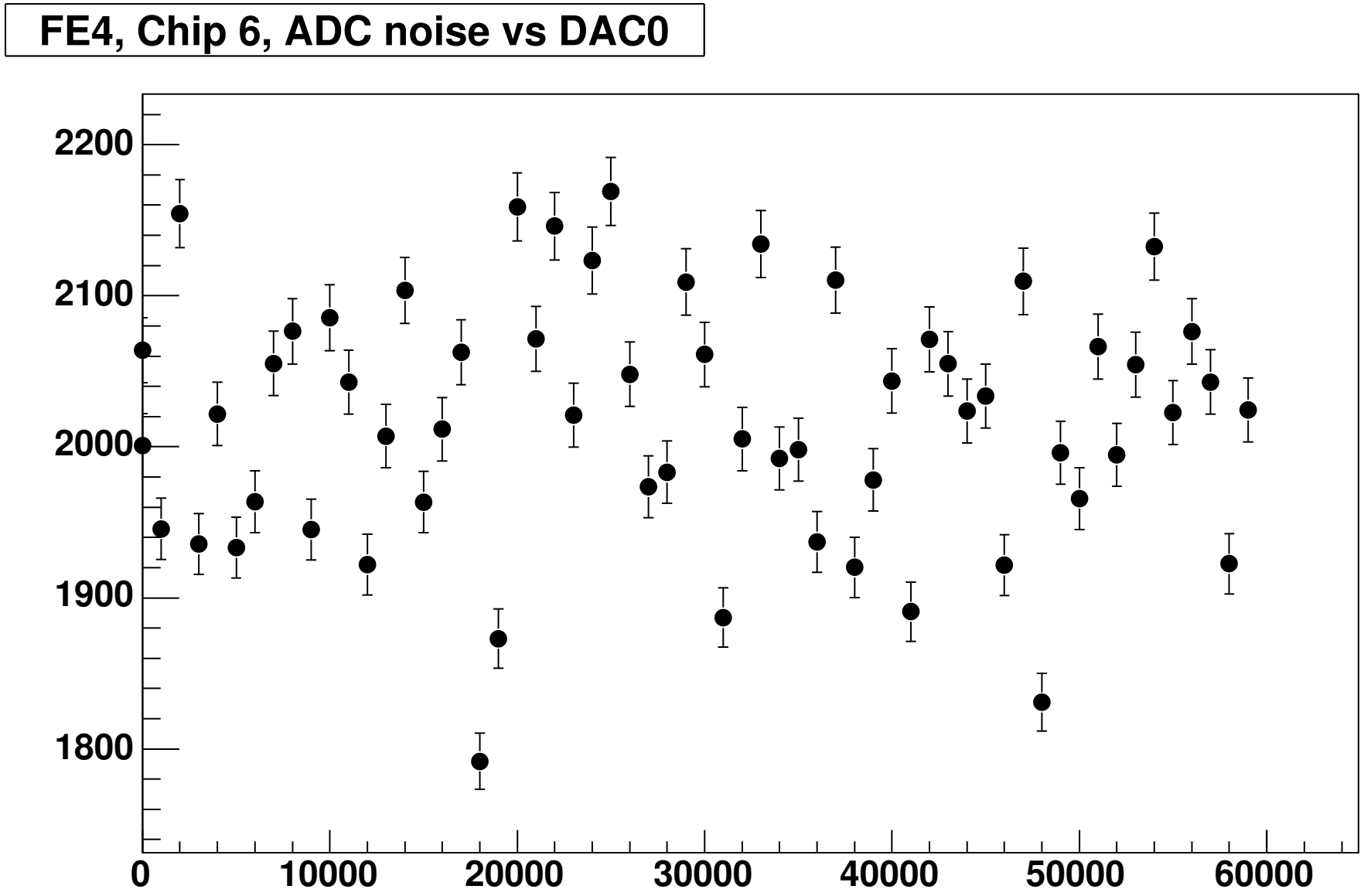
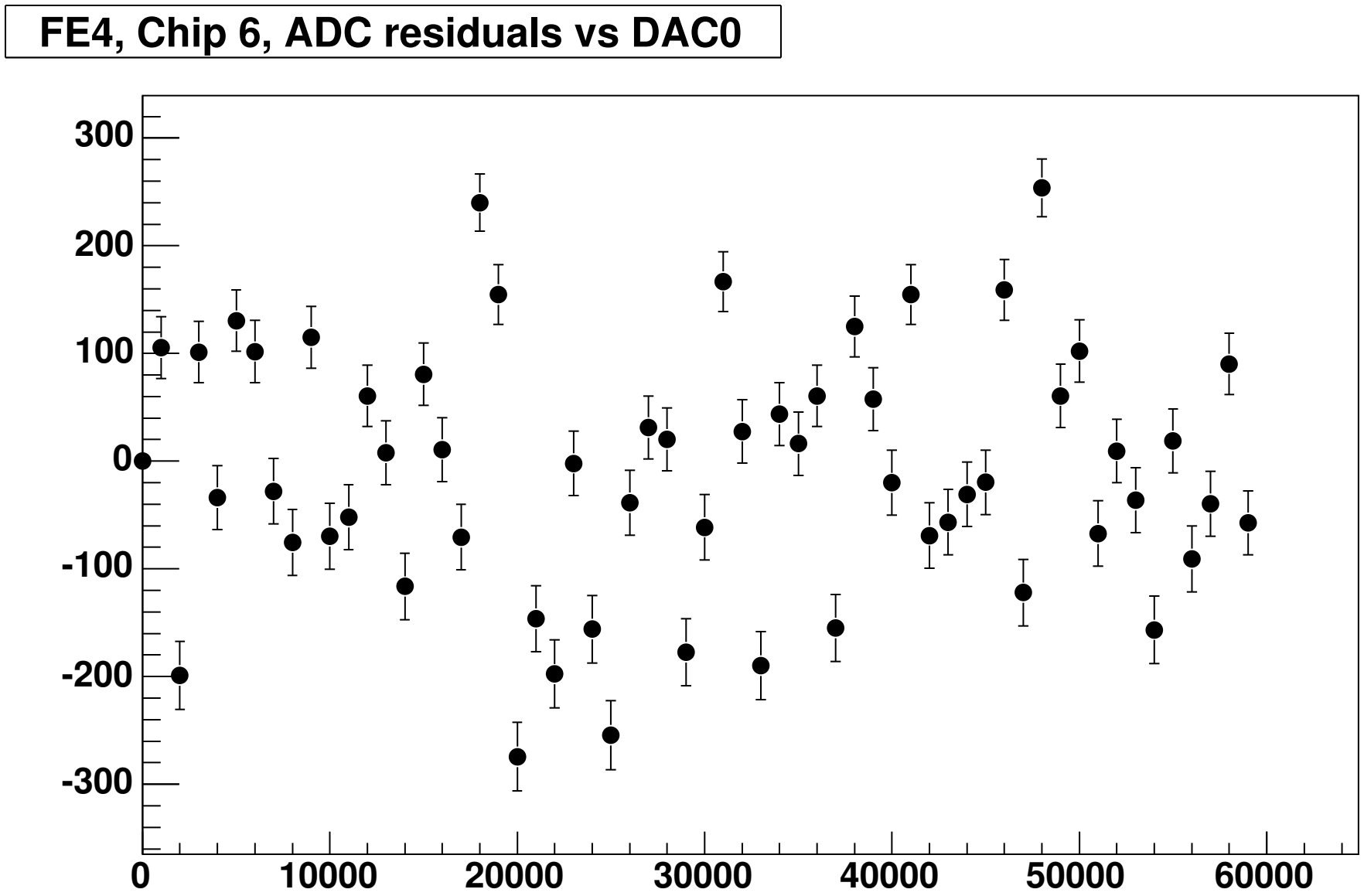
60000


FE4, Chip 5, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE4, Chip 5, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE4, Chip 6, ADC mean vs DAC0
χ² / ndf 920.8 / 57
p0 3893 ± 7.803
p1 -0.0008825 ± 0.0002262
4200
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE4, Chip 6, ADC noise vs DAC0
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE4, Chip 6, ADC residuals vs DAC0
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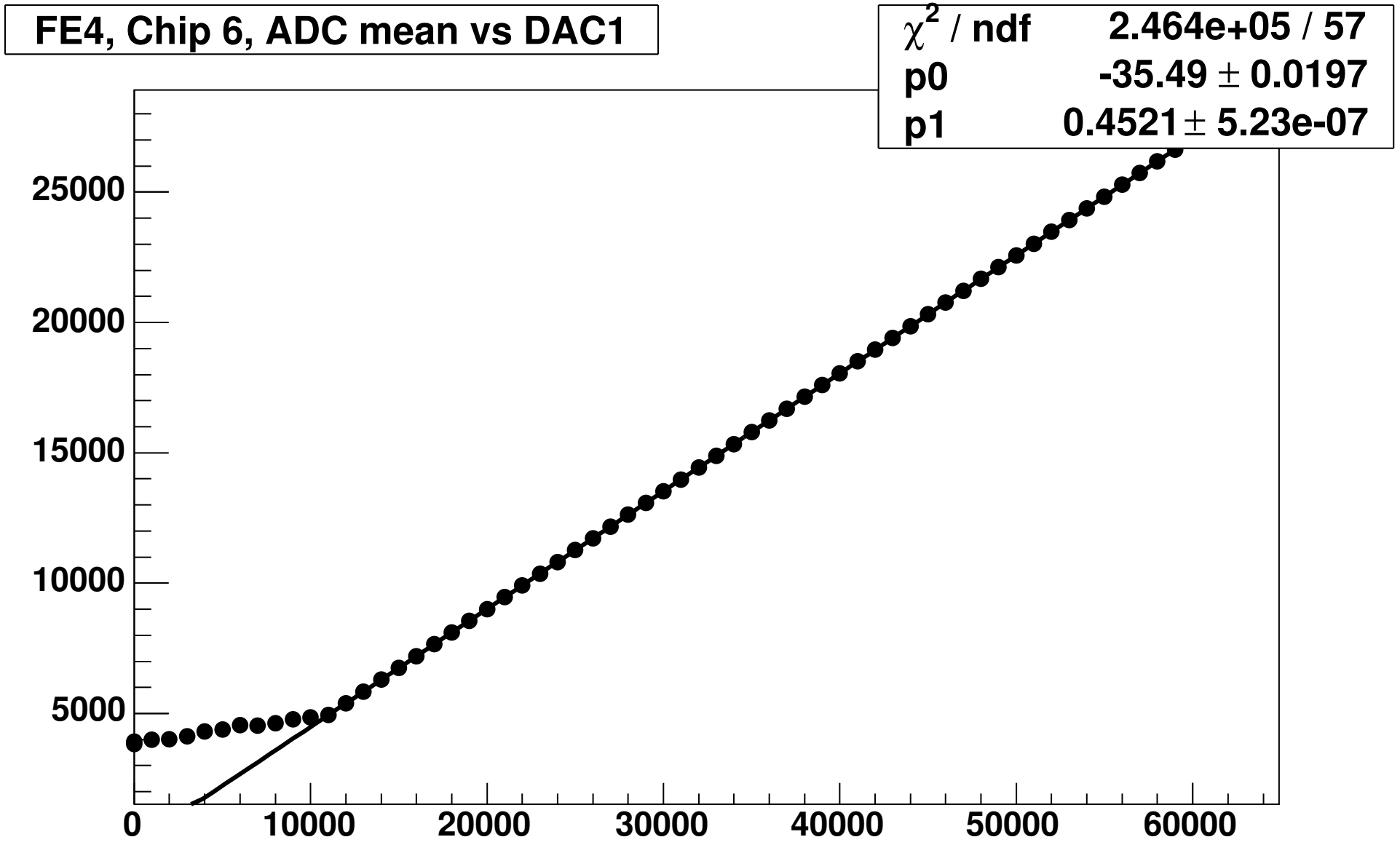
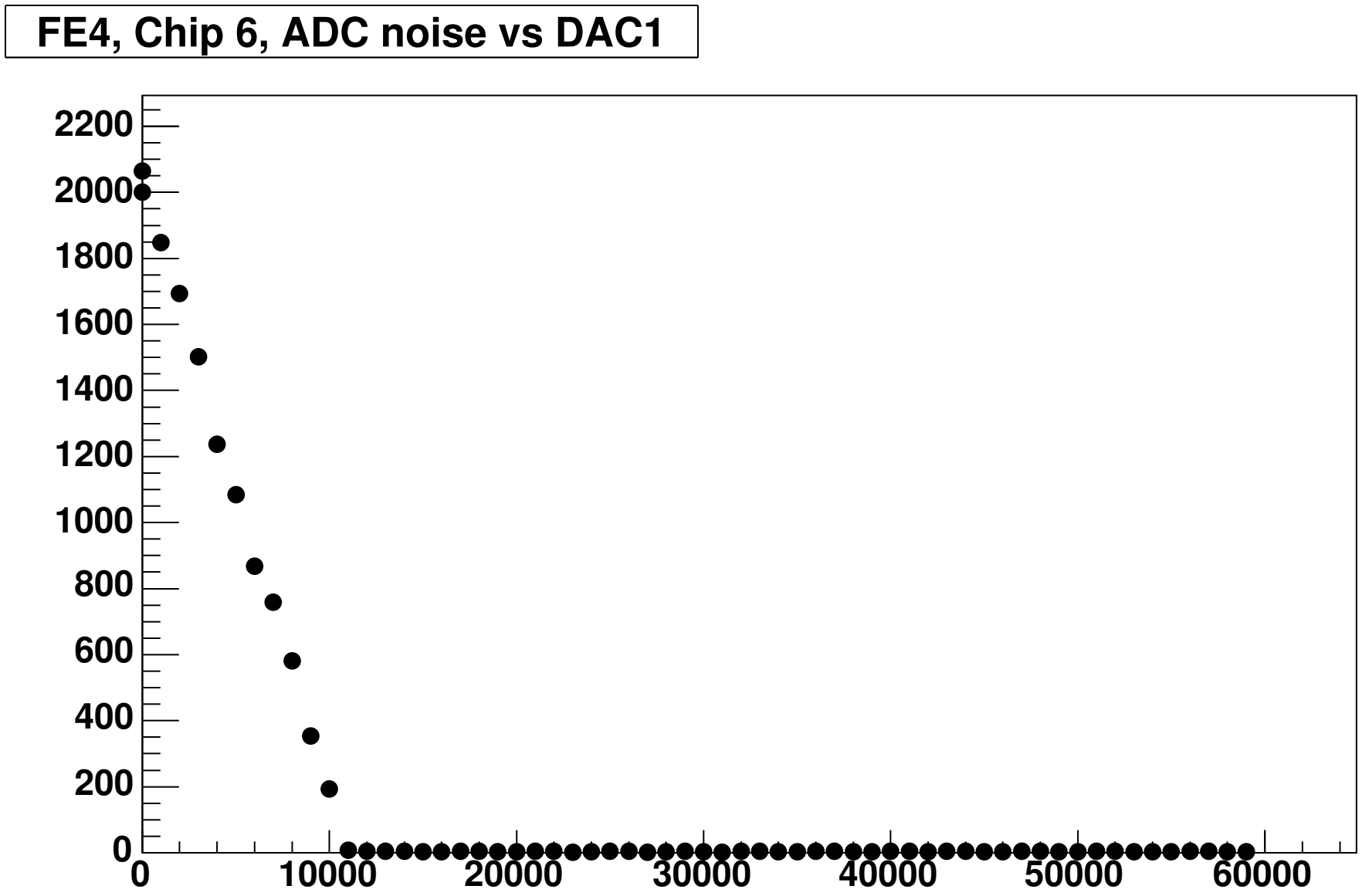
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE4, Chip 6, ADC mean vs DAC1
χ² / ndf 2.464e+05 / 57
p0 -35.49 ± 0.0197
p1 0.4521 ± 5.23e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE4, Chip 6, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
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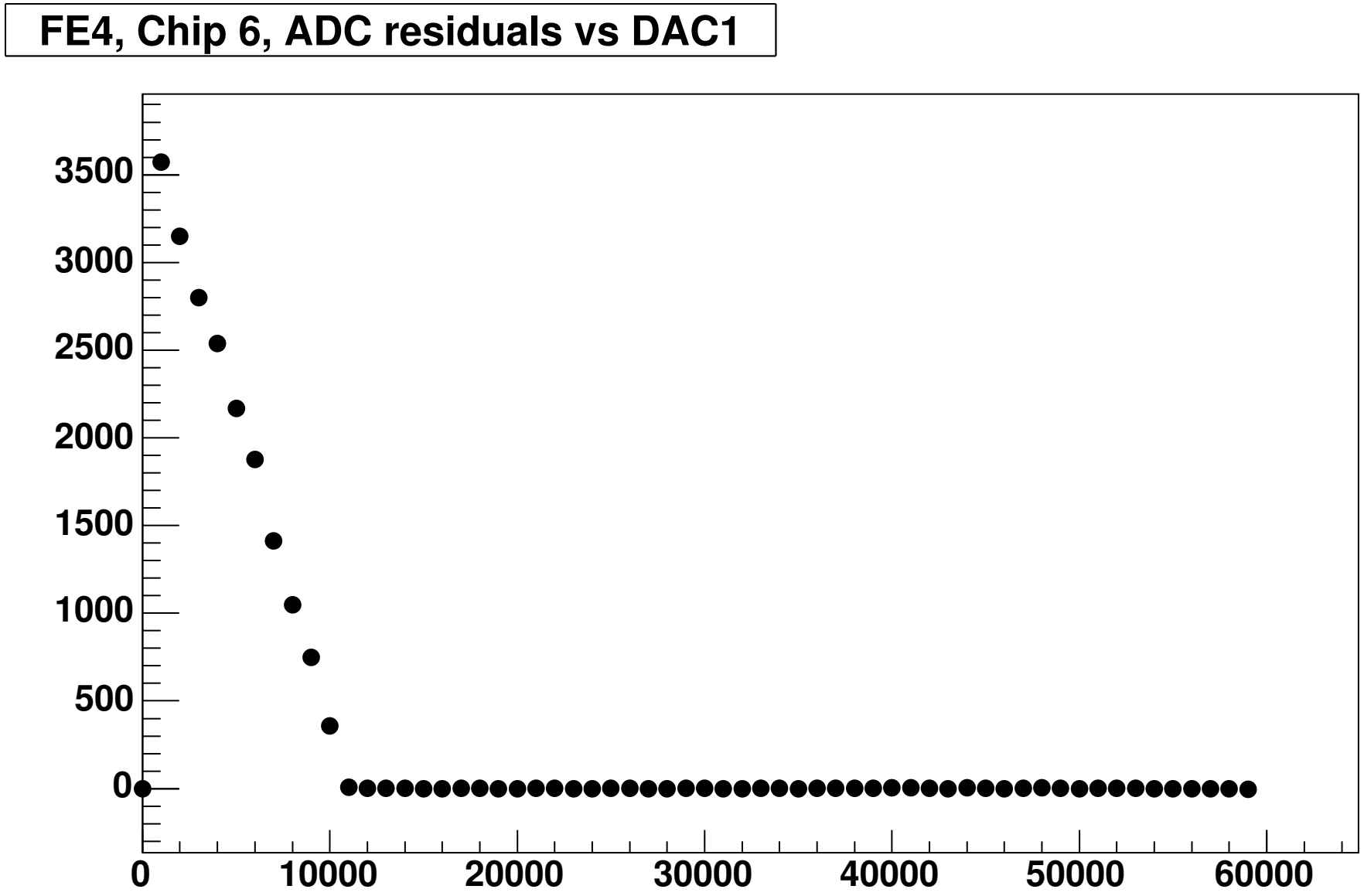
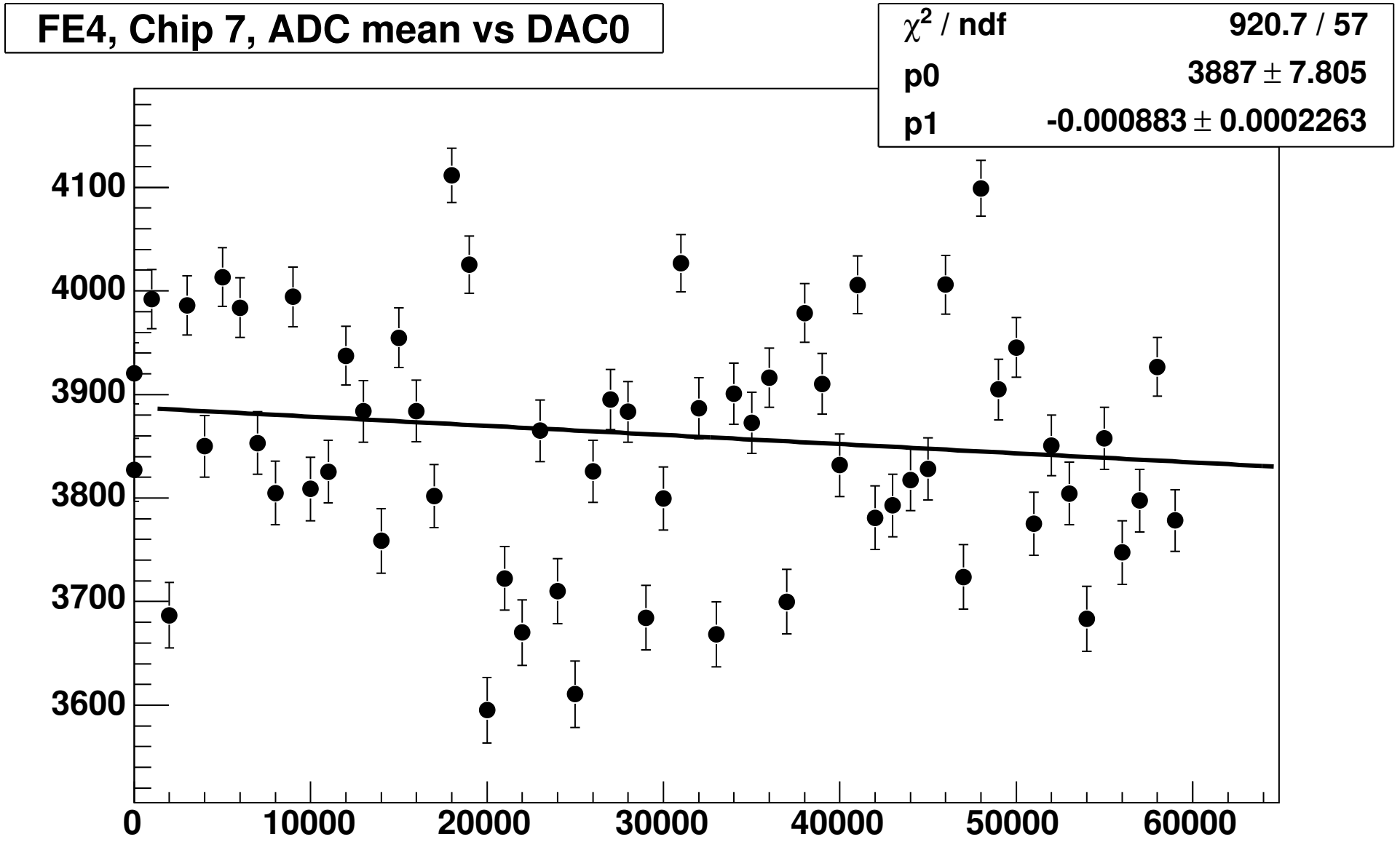
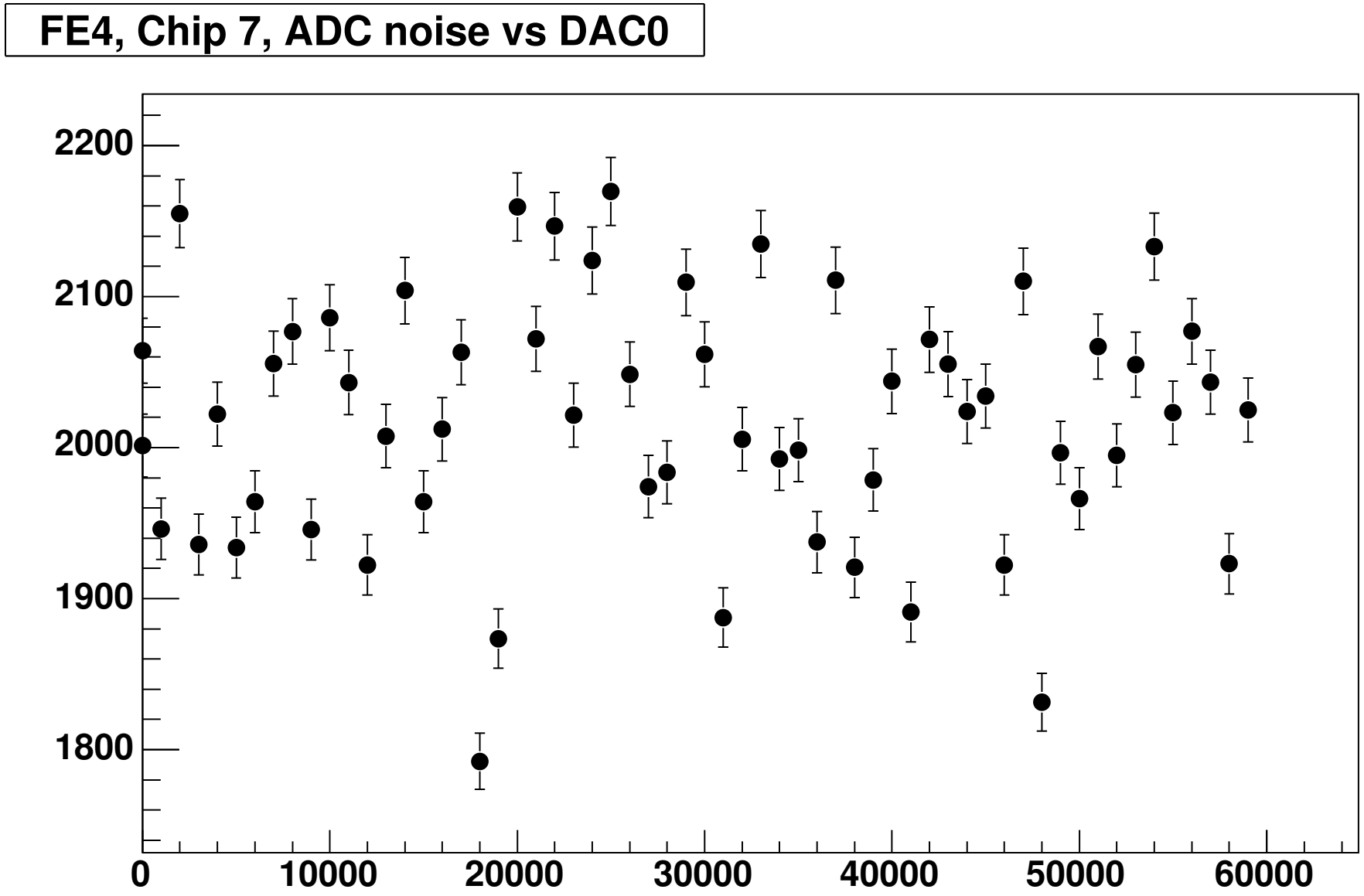
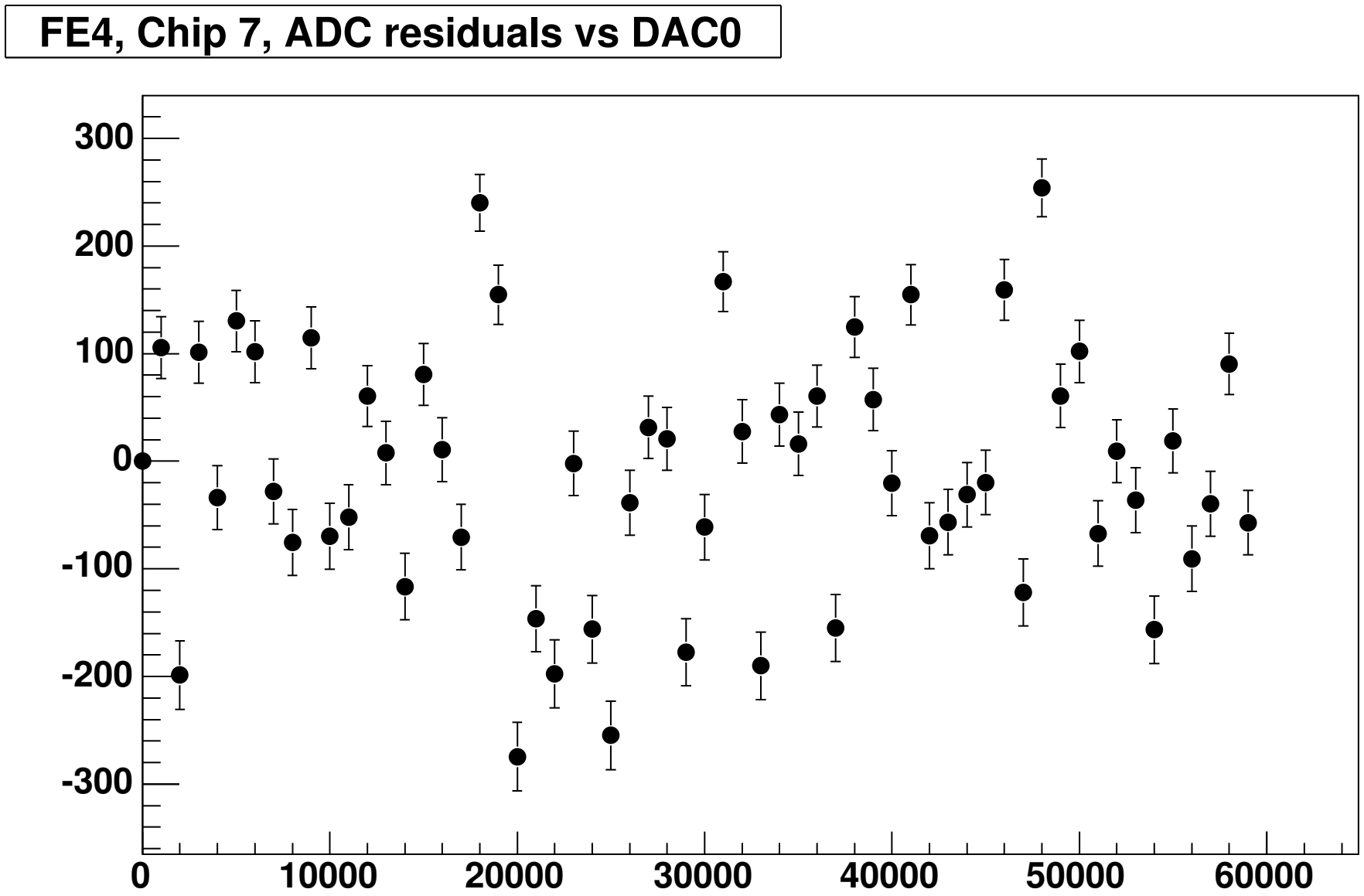
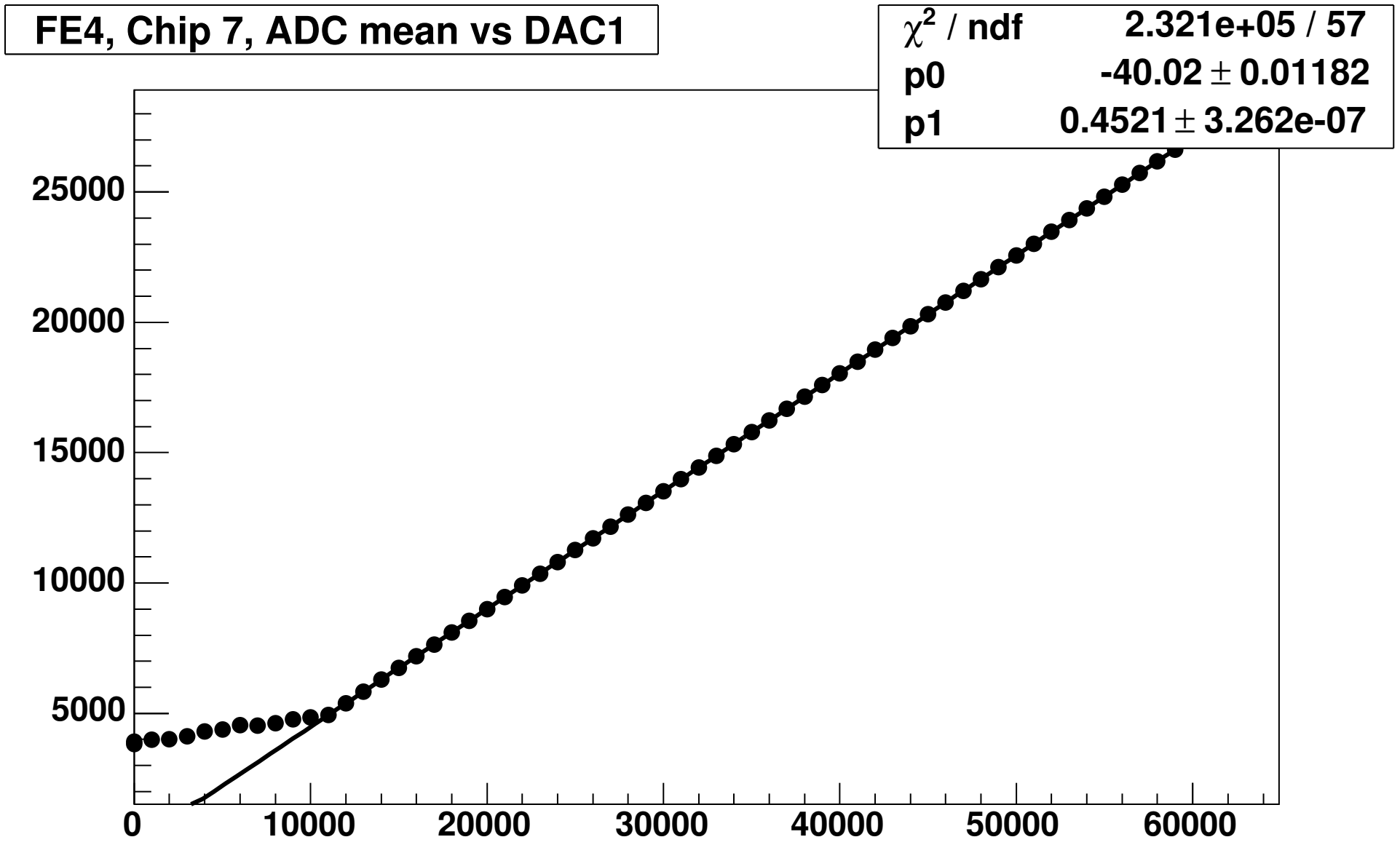
60000


FE4, Chip 6, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 7, ADC mean vs DAC0
χ^2 / ndf 920.7 / 57
p0 3887 ± 7.805
p1 -0.000883 ± 0.0002263
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE4, Chip 7, ADC noise vs DAC0
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE4, Chip 7, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE4, Chip 7, ADC mean vs DAC1
χ² / ndf 2.321e+05 / 57
p0 -40.02 ± 0.01182
p1 0.4521 ± 3.262e-07
25000
20000
15000
10000
5000
0
10000
20000
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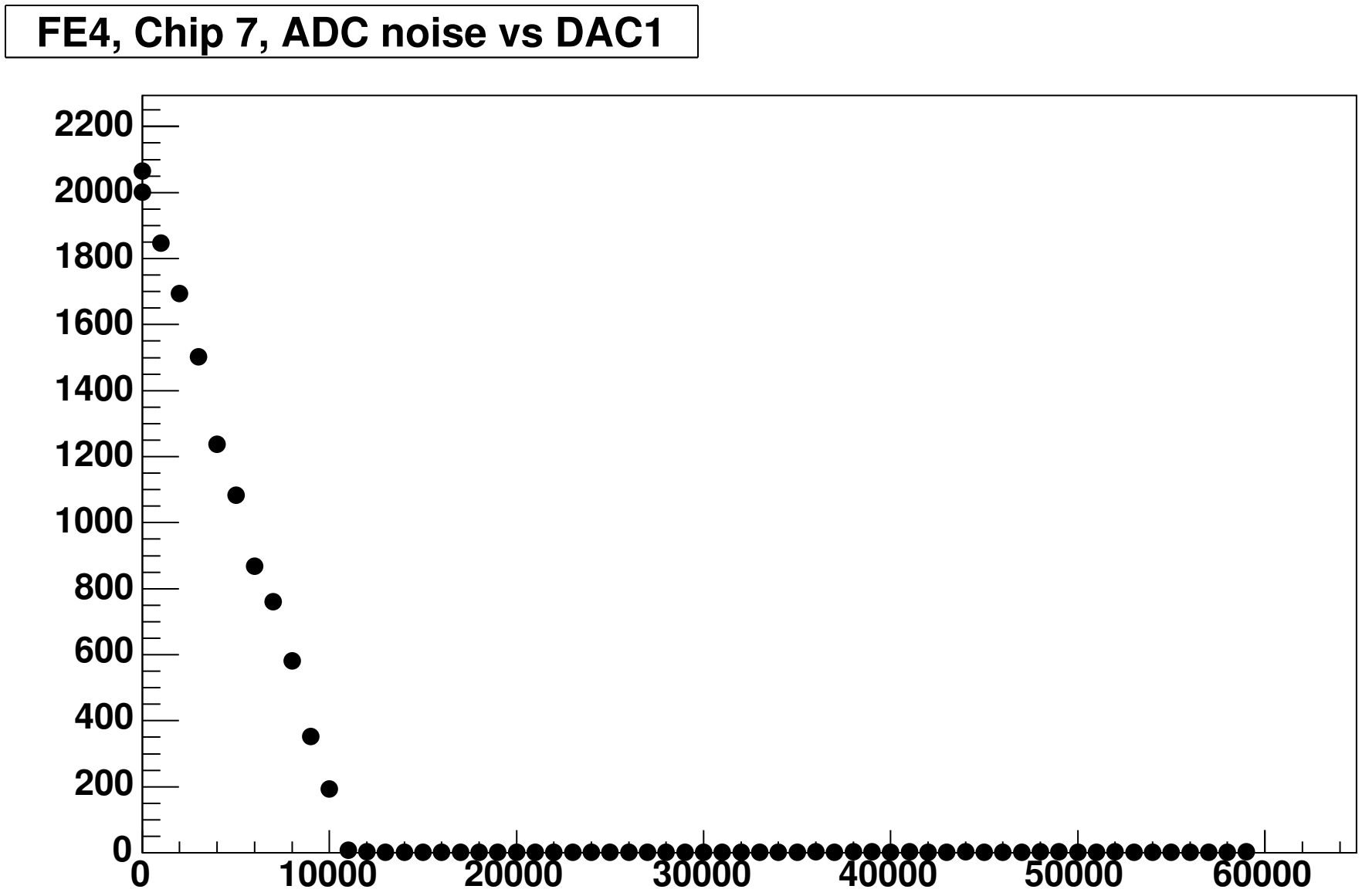
FE4, Chip 7, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
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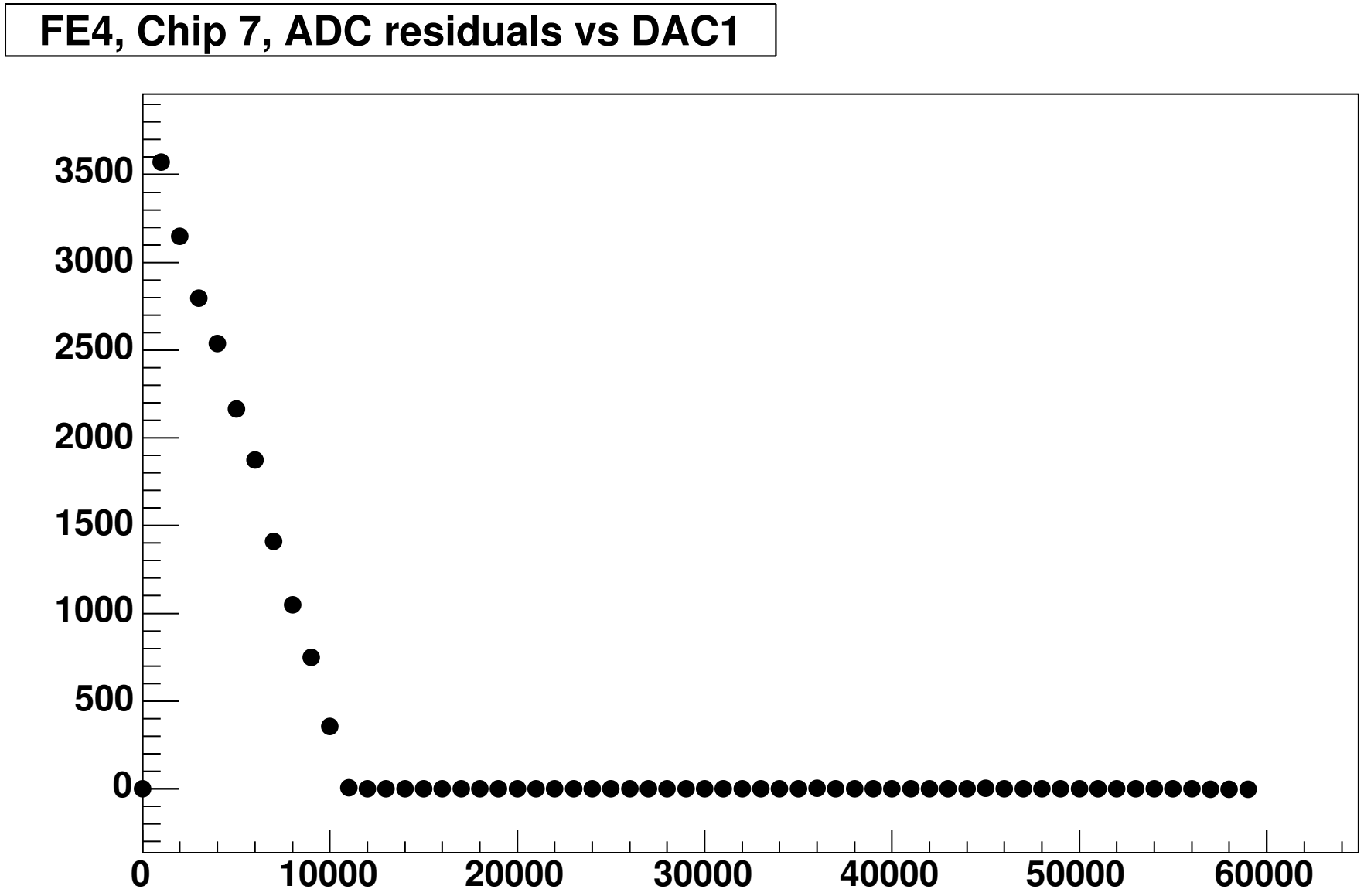
FE4, Chip 7, ADC residuals vs DAC1
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1500
1000
500
0
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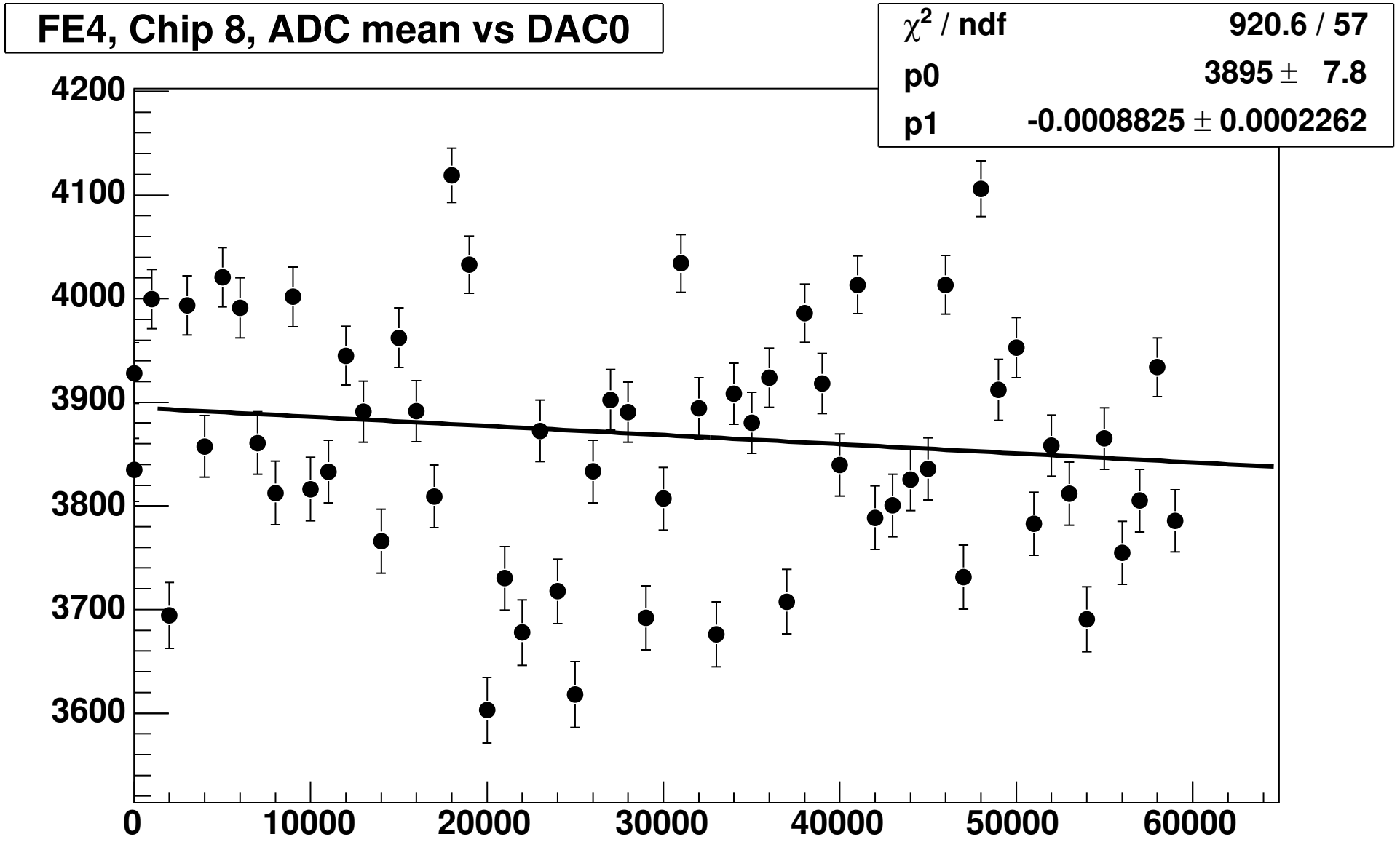
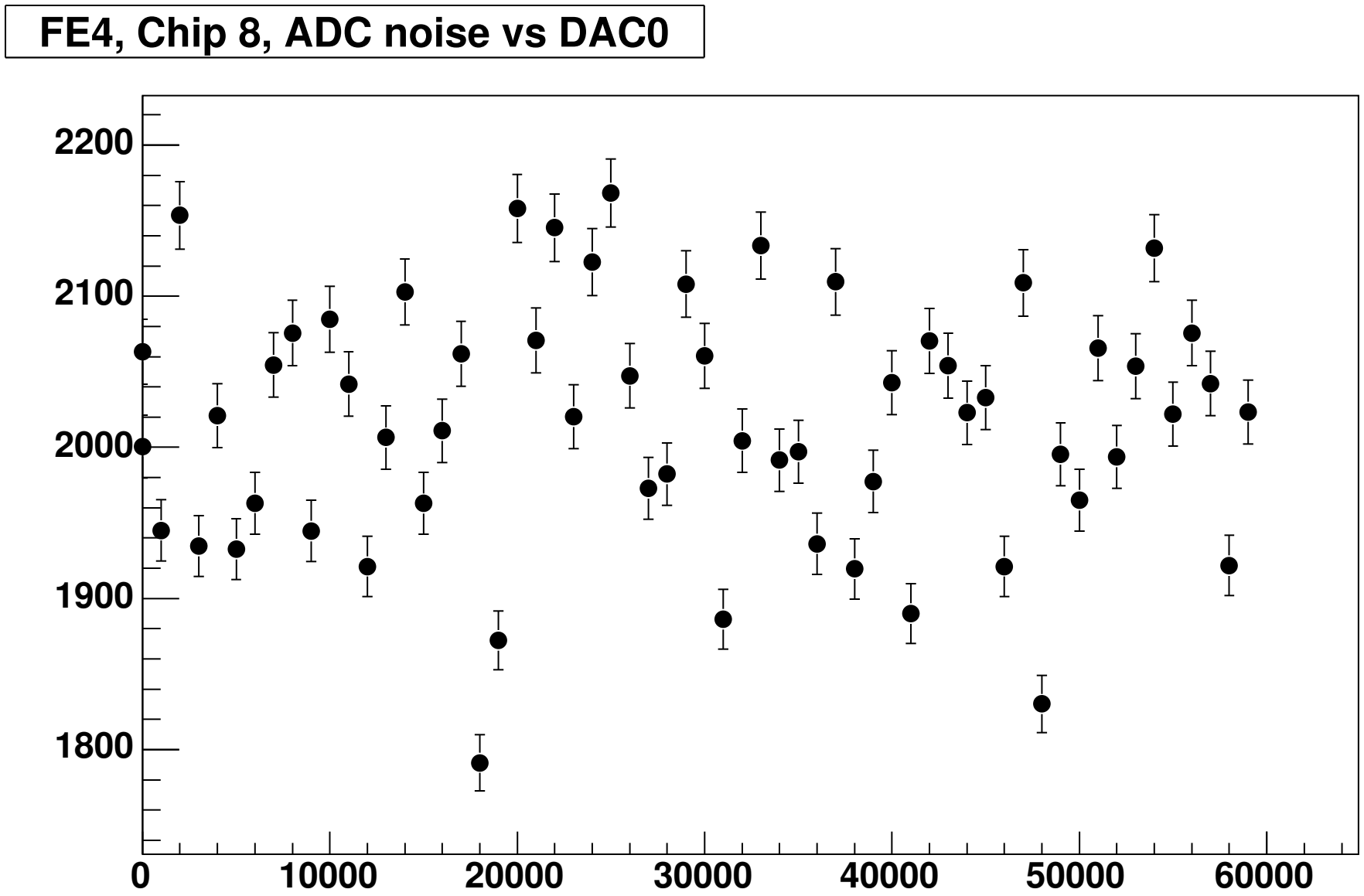
20000
30000
40000
50000
60000


FE4, Chip 8, ADC mean vs DAC0
χ² / ndf 920.6 / 57
p0 3895 ± 7.8
p1 -0.0008825 ± 0.0002262
4200
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE4, Chip 8, ADC noise vs DAC0
2200
2100
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1900
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10000
20000
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40000
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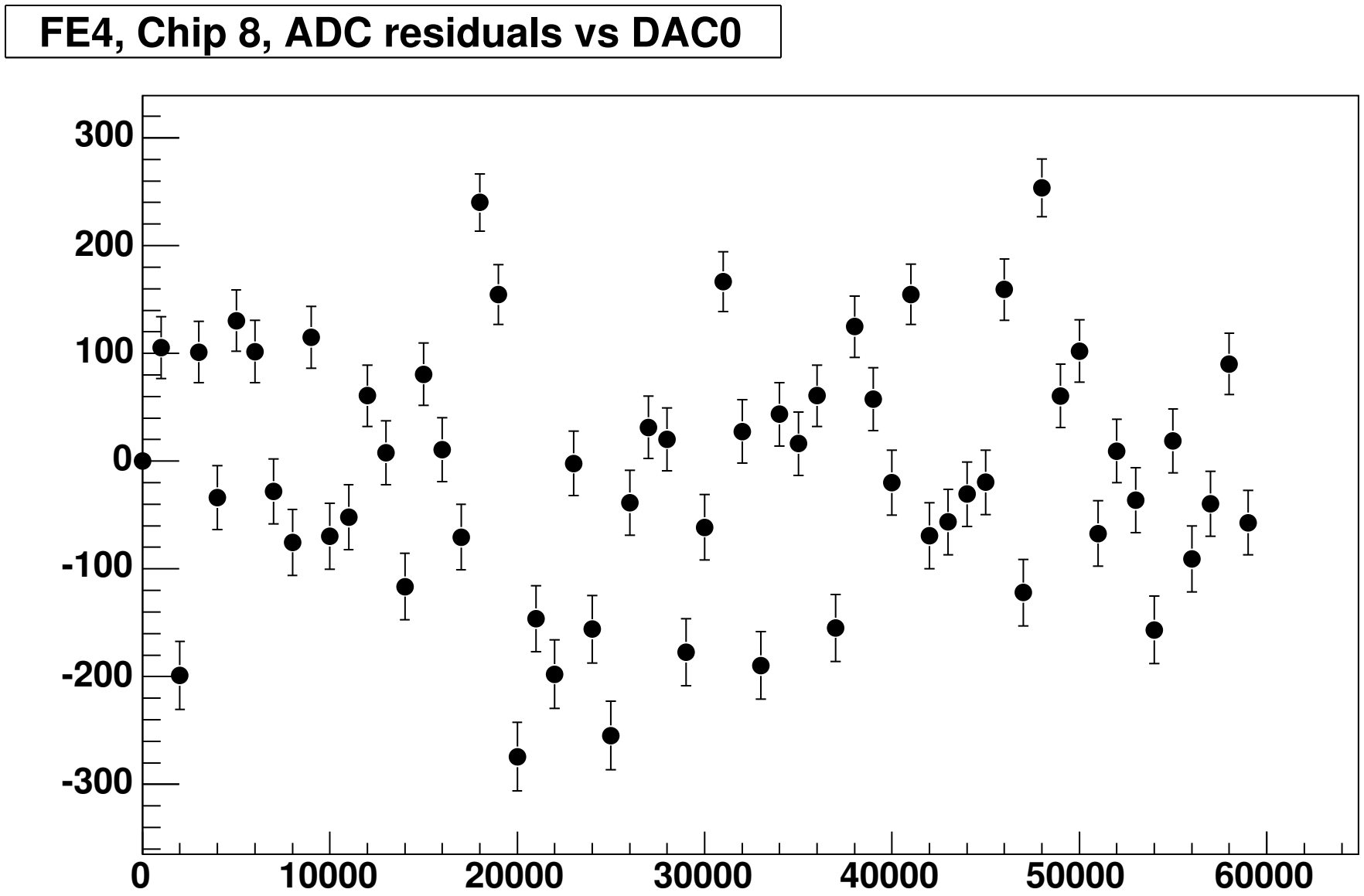
FE4, Chip 8, ADC residuals vs DAC0
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200
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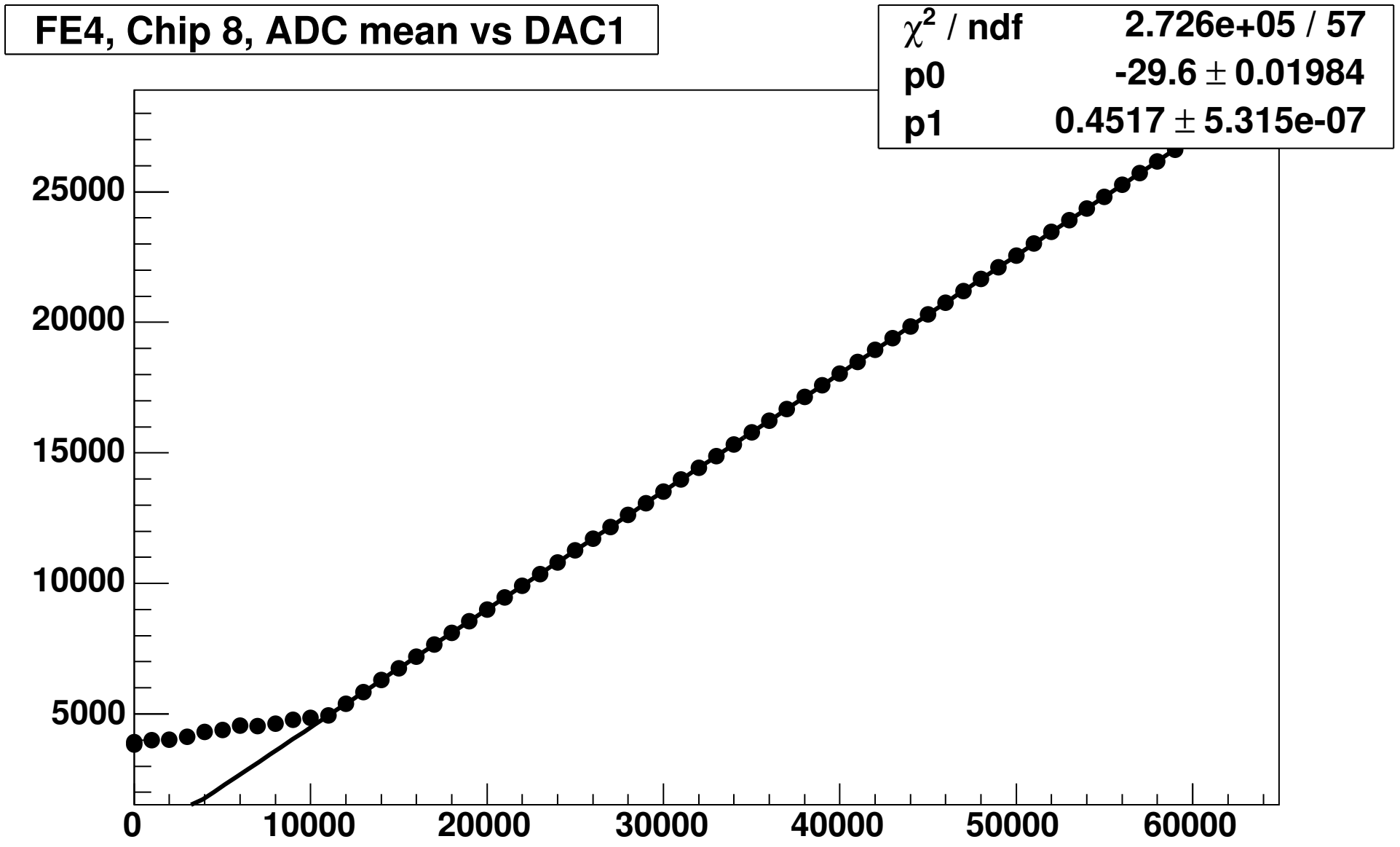
-200
-300
0
10000
20000
30000
40000
50000
60000


FE4, Chip 8, ADC mean vs DAC1
χ² / ndf 2.726e+05 / 57
p0 -29.6 ± 0.01984
p1 0.4517 ± 5.315e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
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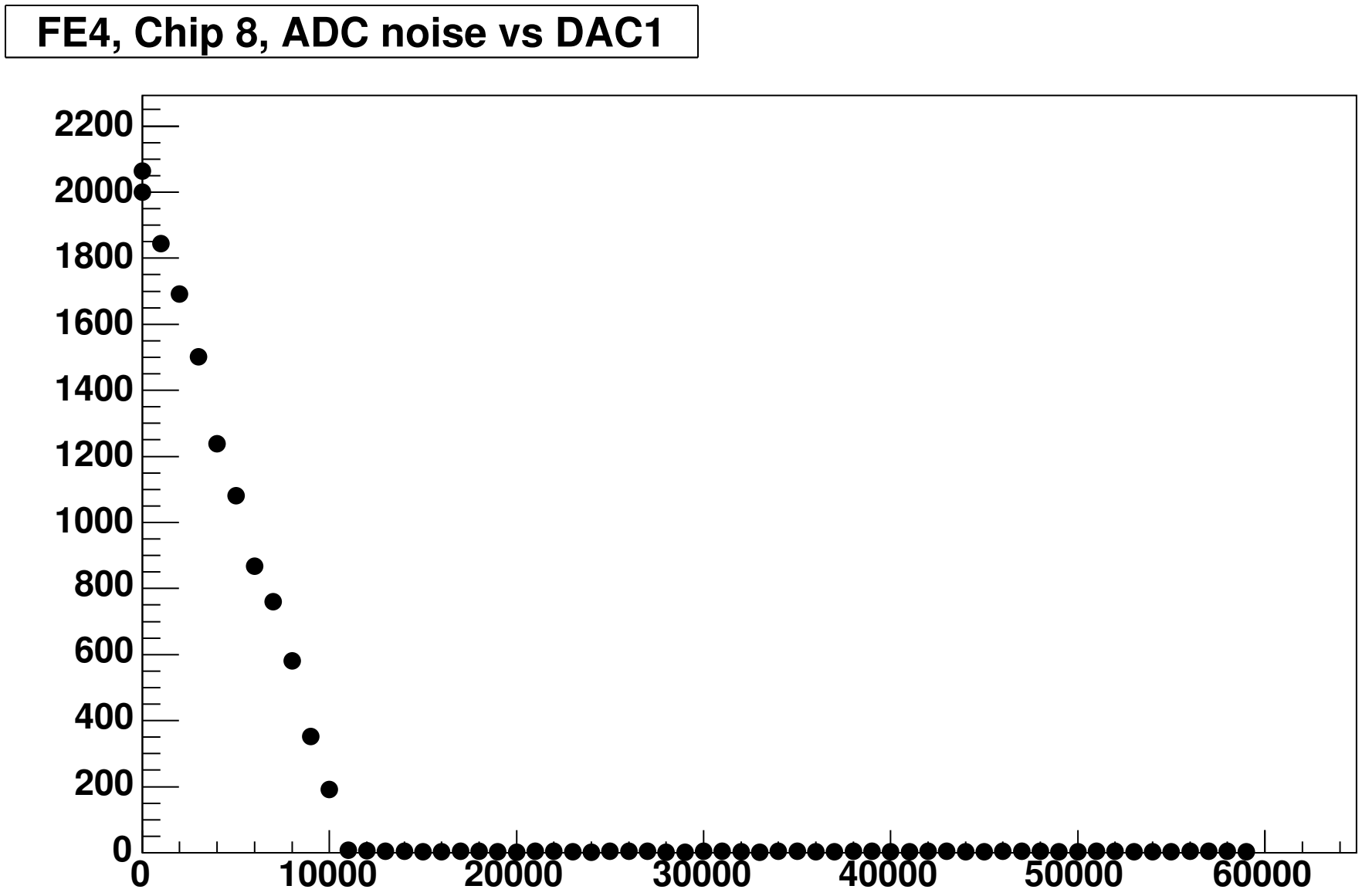
60000


FE4, Chip 8, ADC noise vs DAC1
2200
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1600
1400
1200
1000
800
600
400
200
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0
10000
20000
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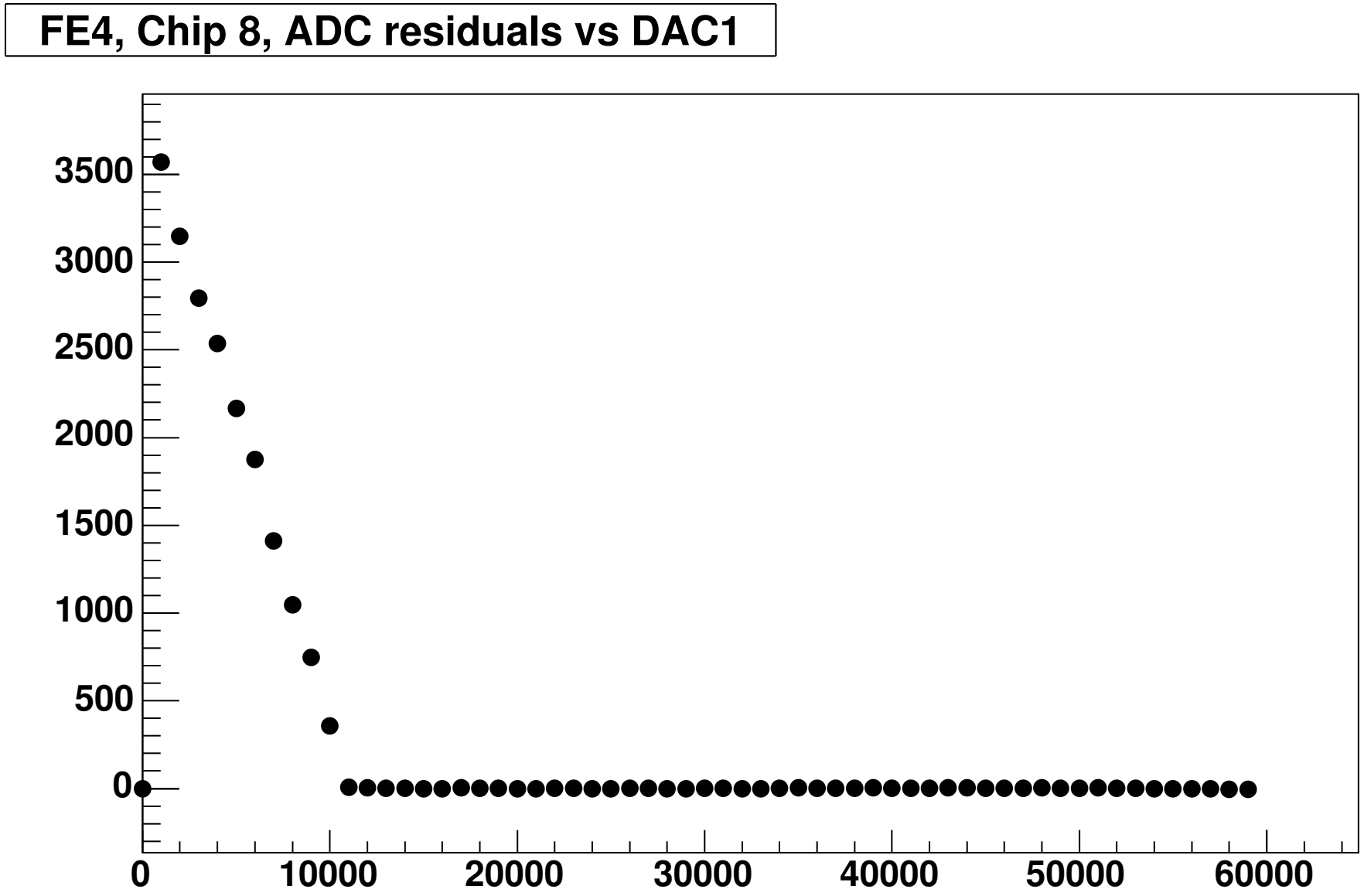
FE4, Chip 8, ADC residuals vs DAC1
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2500
2000
1500
1000
500
0
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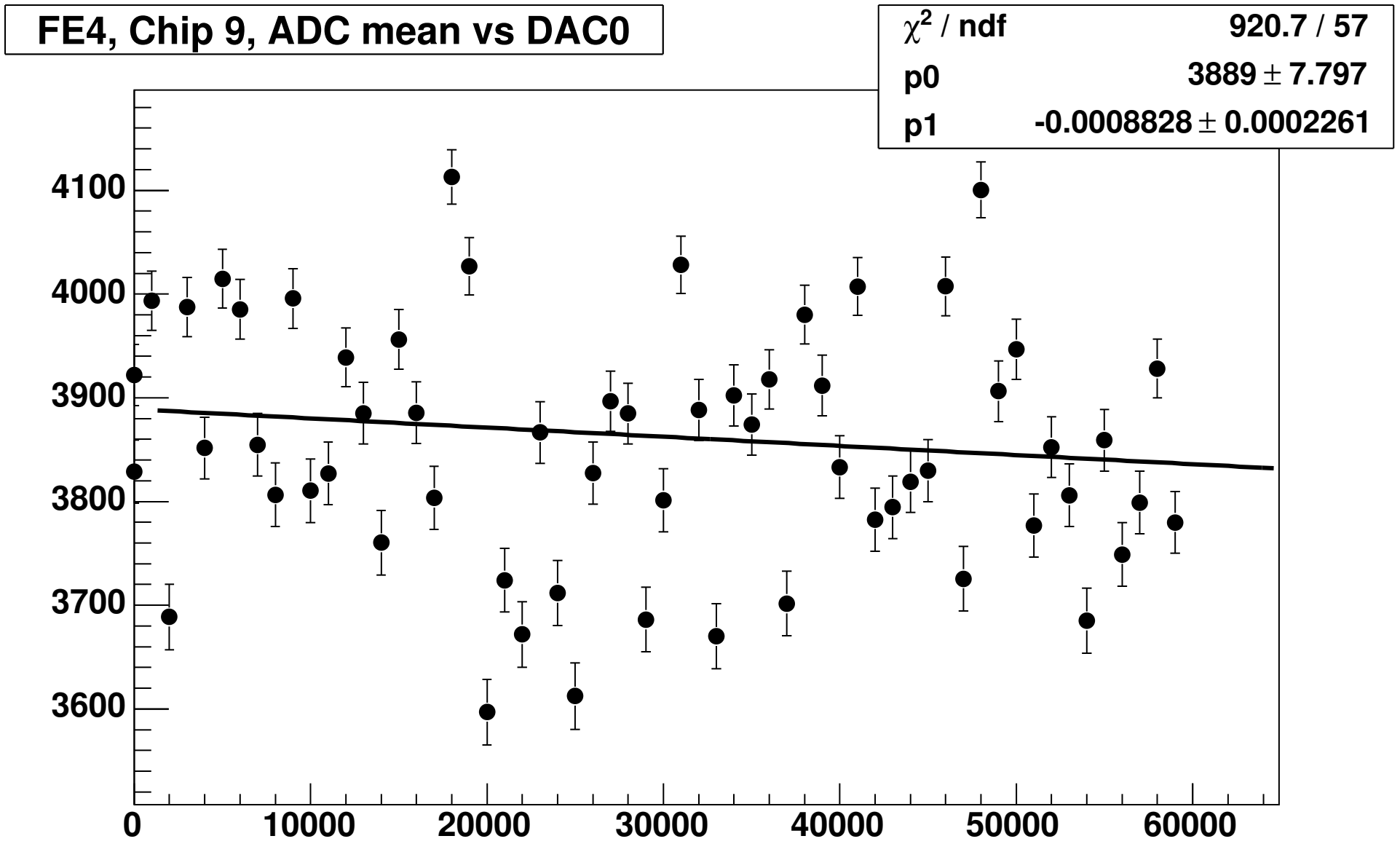
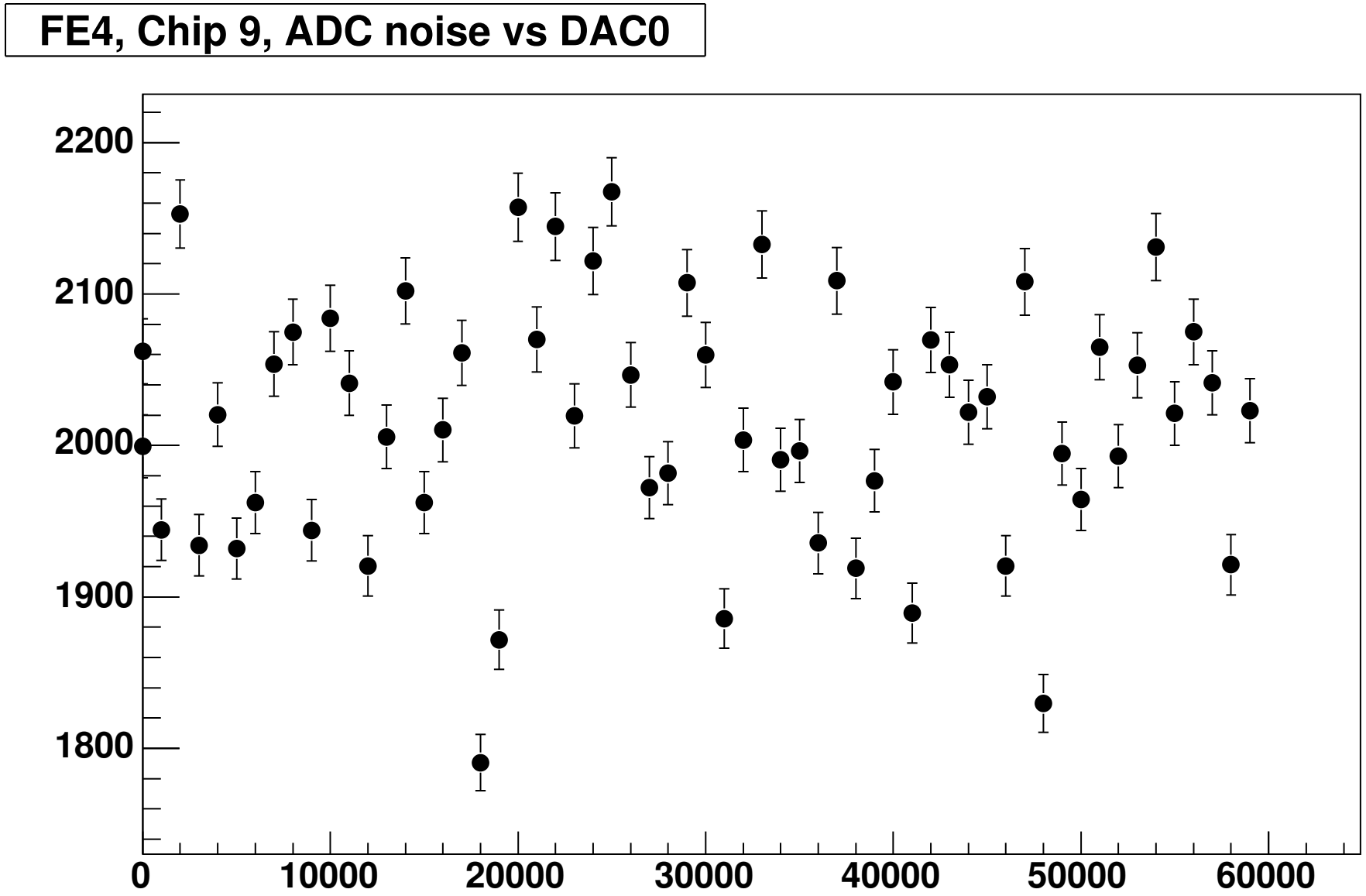
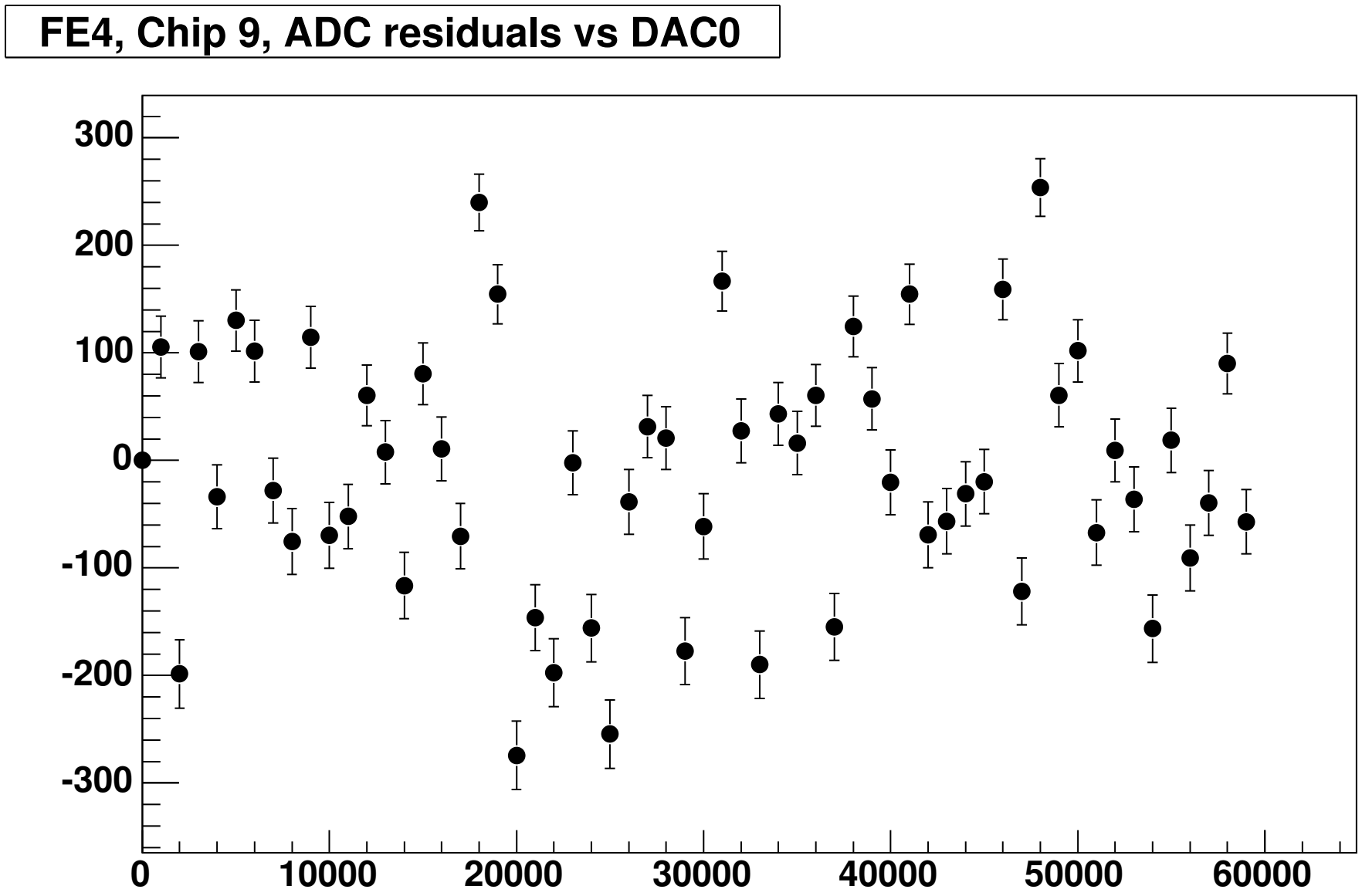

FE4, Chip 9, ADC mean vs DAC0
χ² / ndf 920.7 / 57
p0 3889 ± 7.797
p1 -0.0008828 ± 0.0002261
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE4, Chip 9, ADC noise vs DAC0
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE4, Chip 9, ADC residuals vs DAC0
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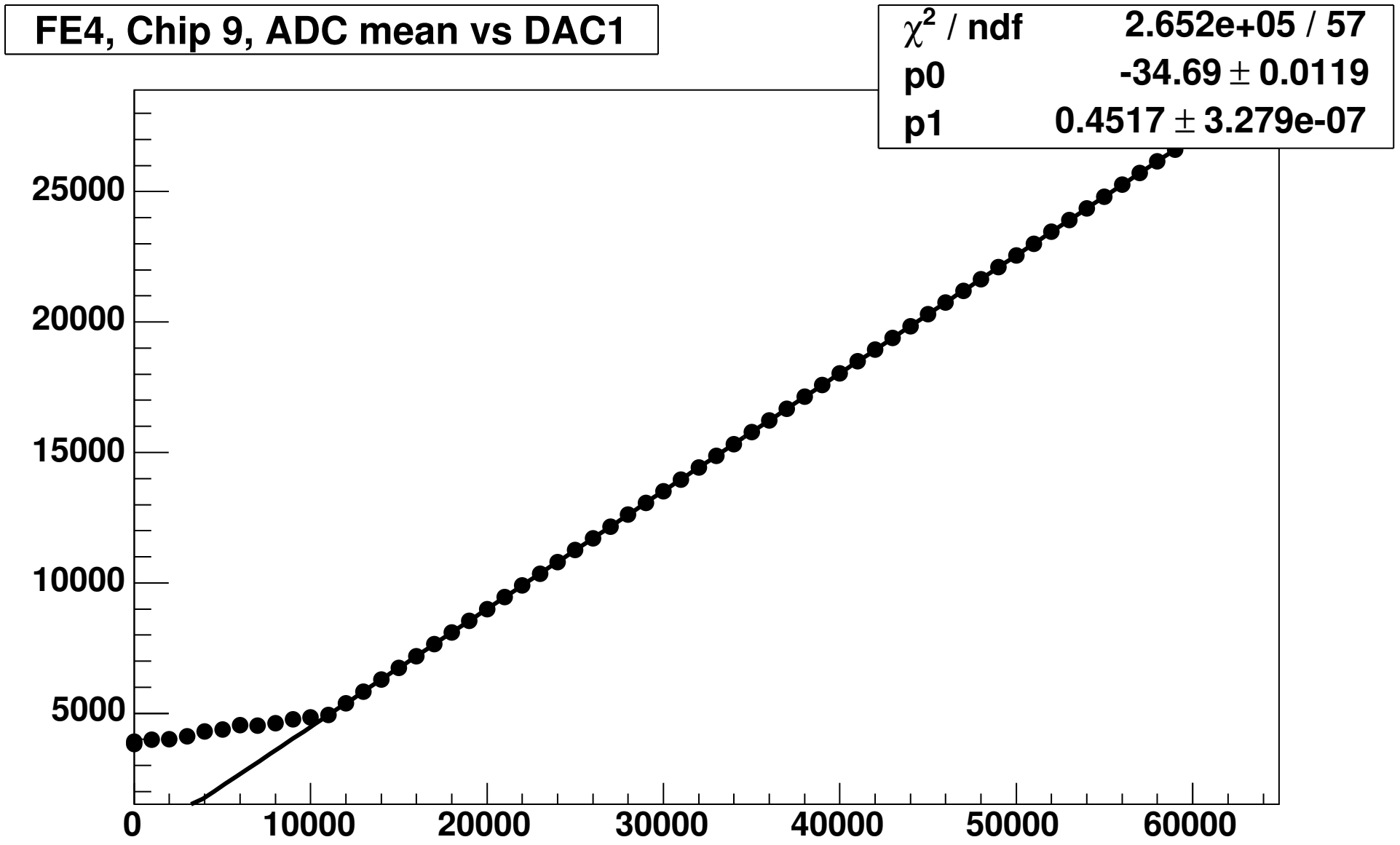
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE4, Chip 9, ADC mean vs DAC1
χ² / ndf 2.652e+05 / 57
p0 -34.69 ± 0.0119
p1 0.4517 ± 3.279e-07
25000
20000
15000
10000
5000
0
10000
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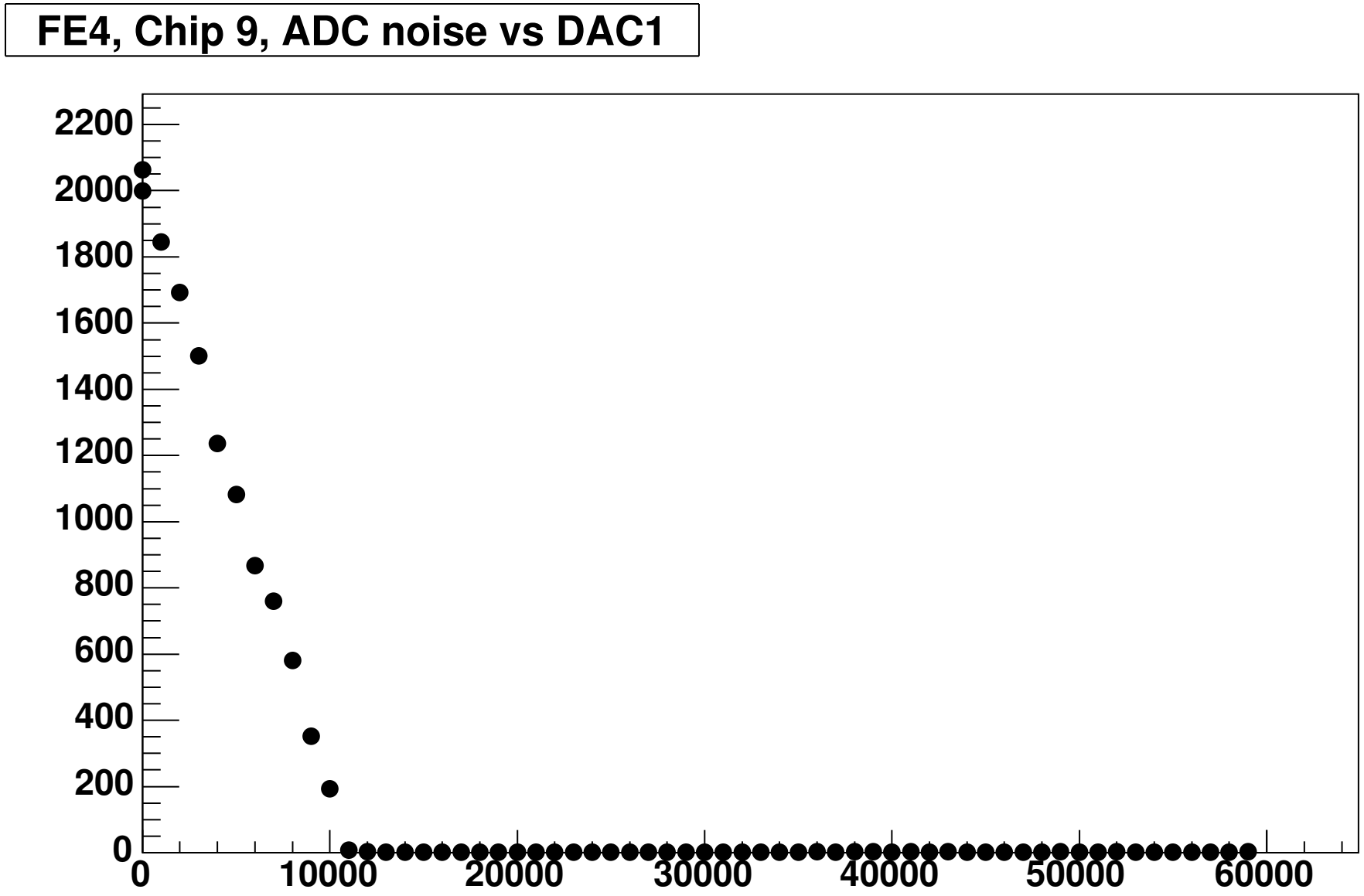
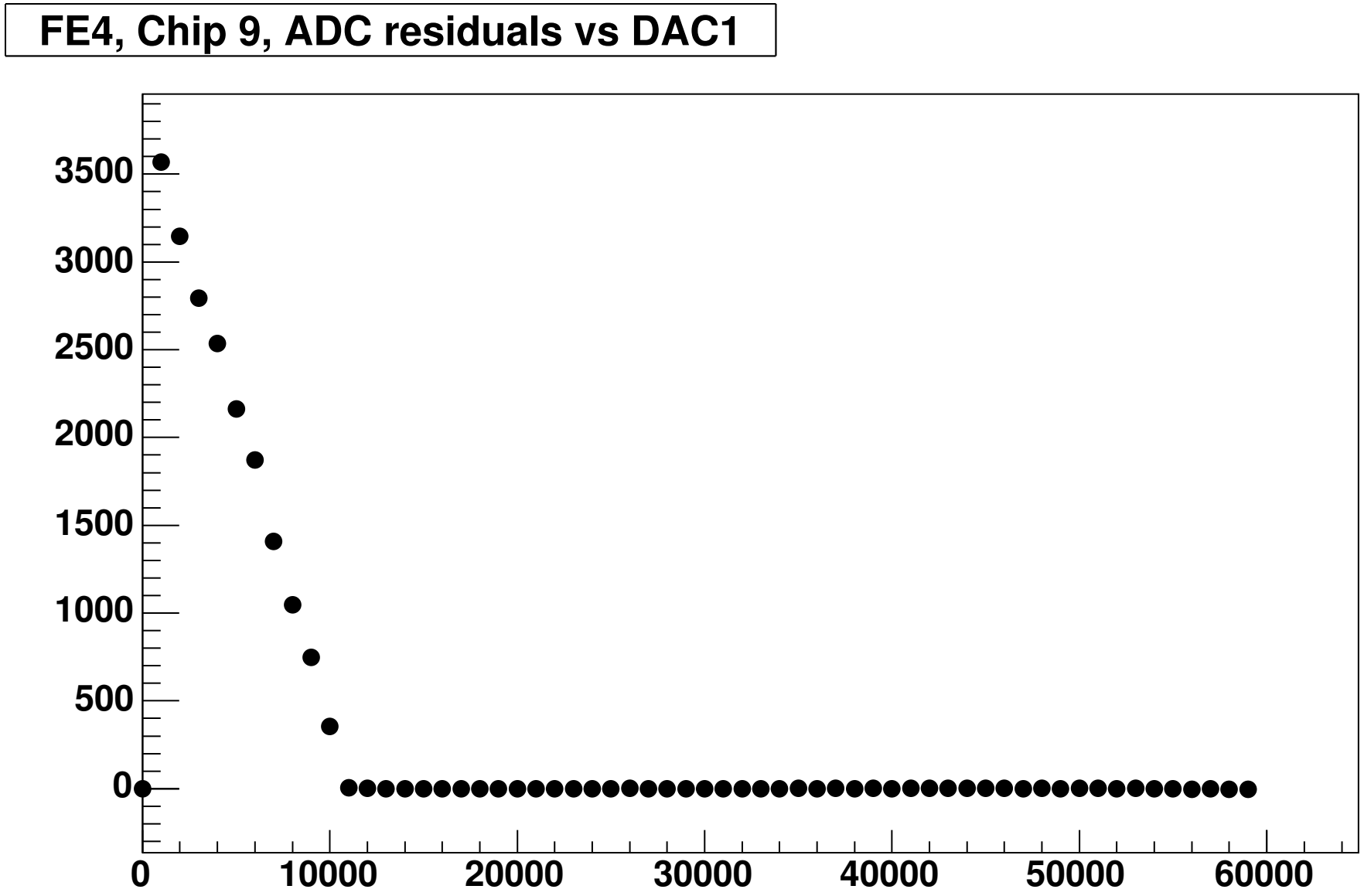
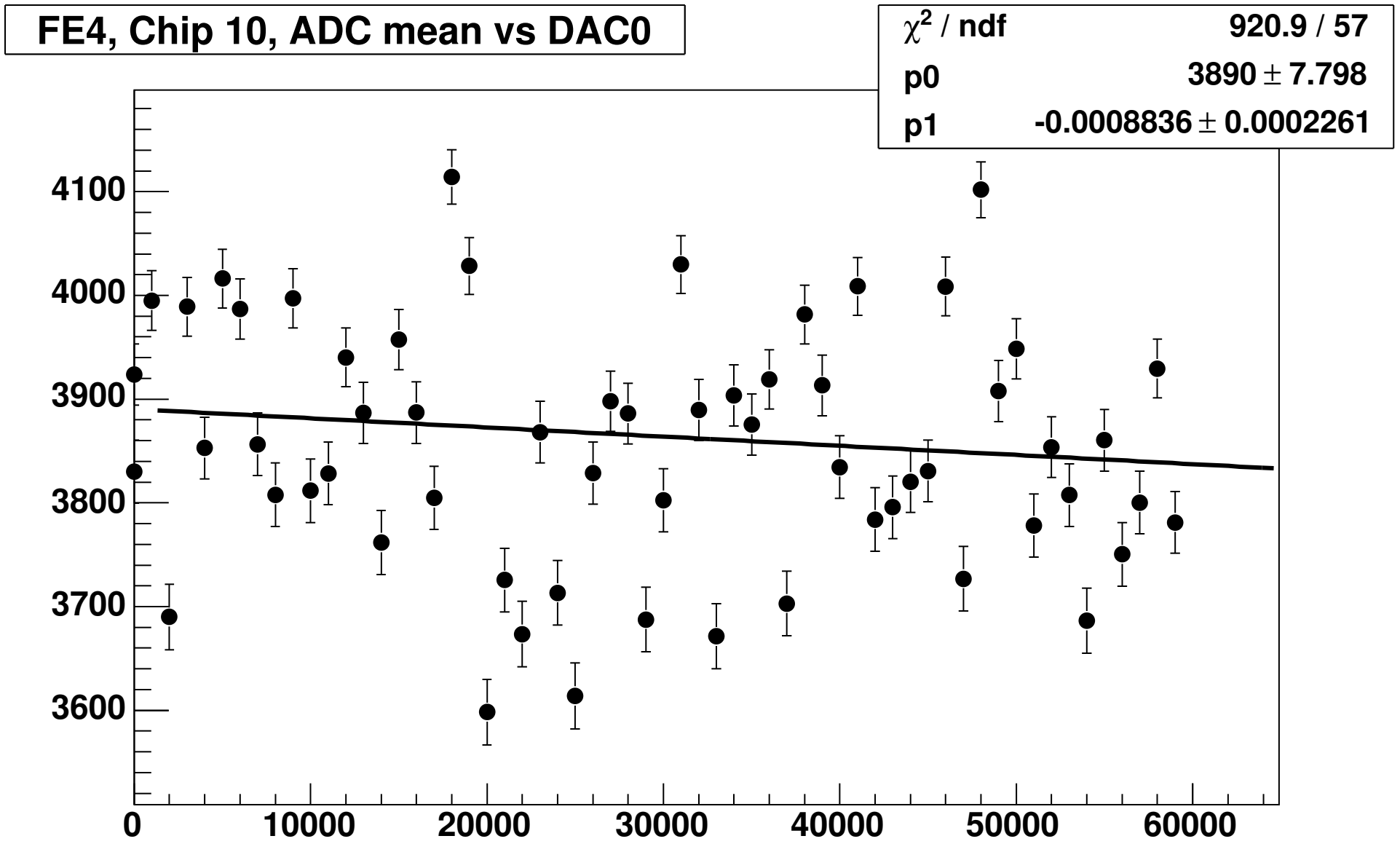
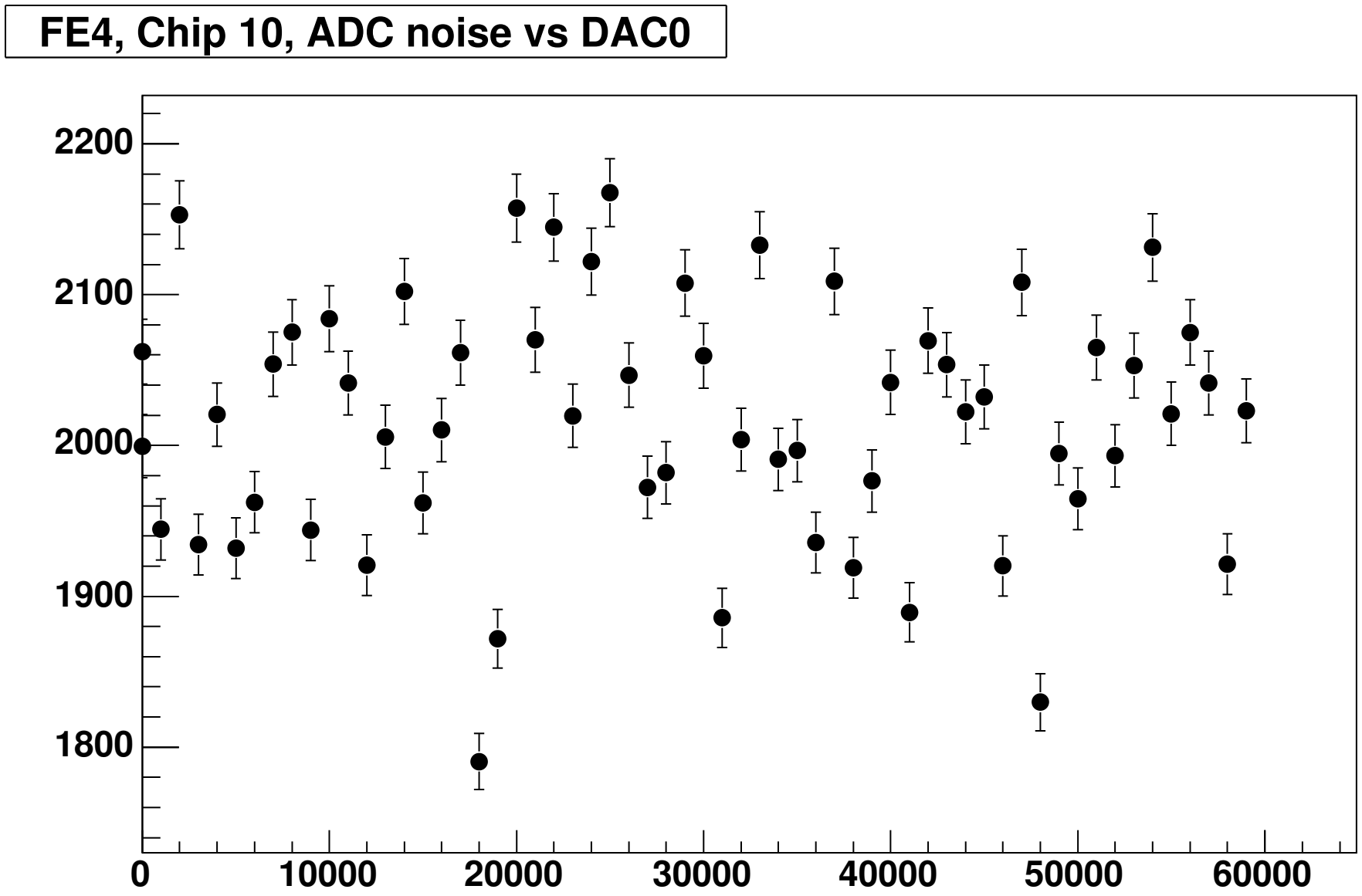
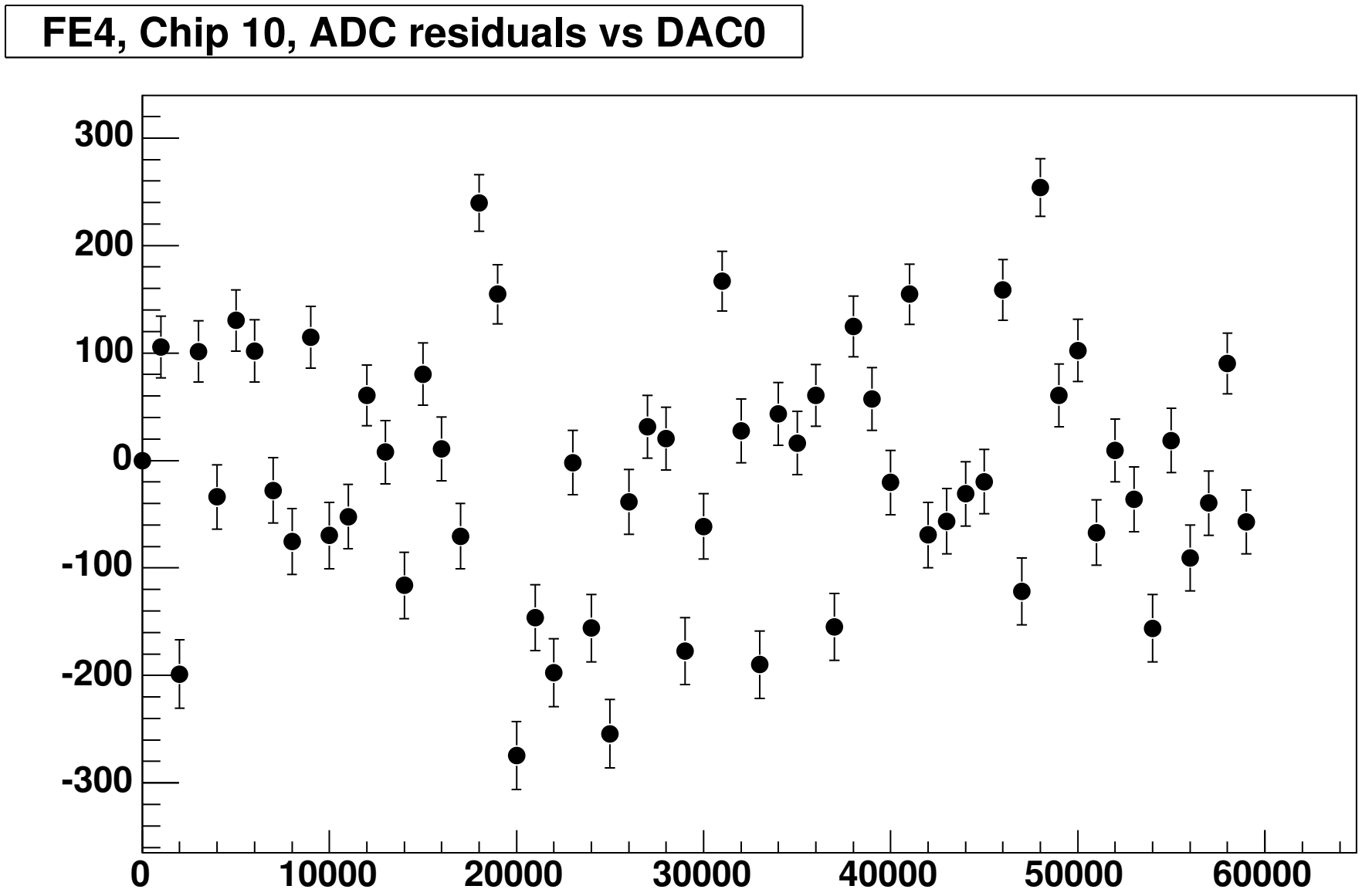
40000
50000
60000


FE4, Chip 9, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 9, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 10, ADC mean vs DAC0
χ² / ndf 920.9 / 57
p0 3890 ± 7.798
p1 -0.0008836 ± 0.0002261
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE4, Chip 10, ADC noise vs DAC0
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE4, Chip 10, ADC residuals vs DAC0
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200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
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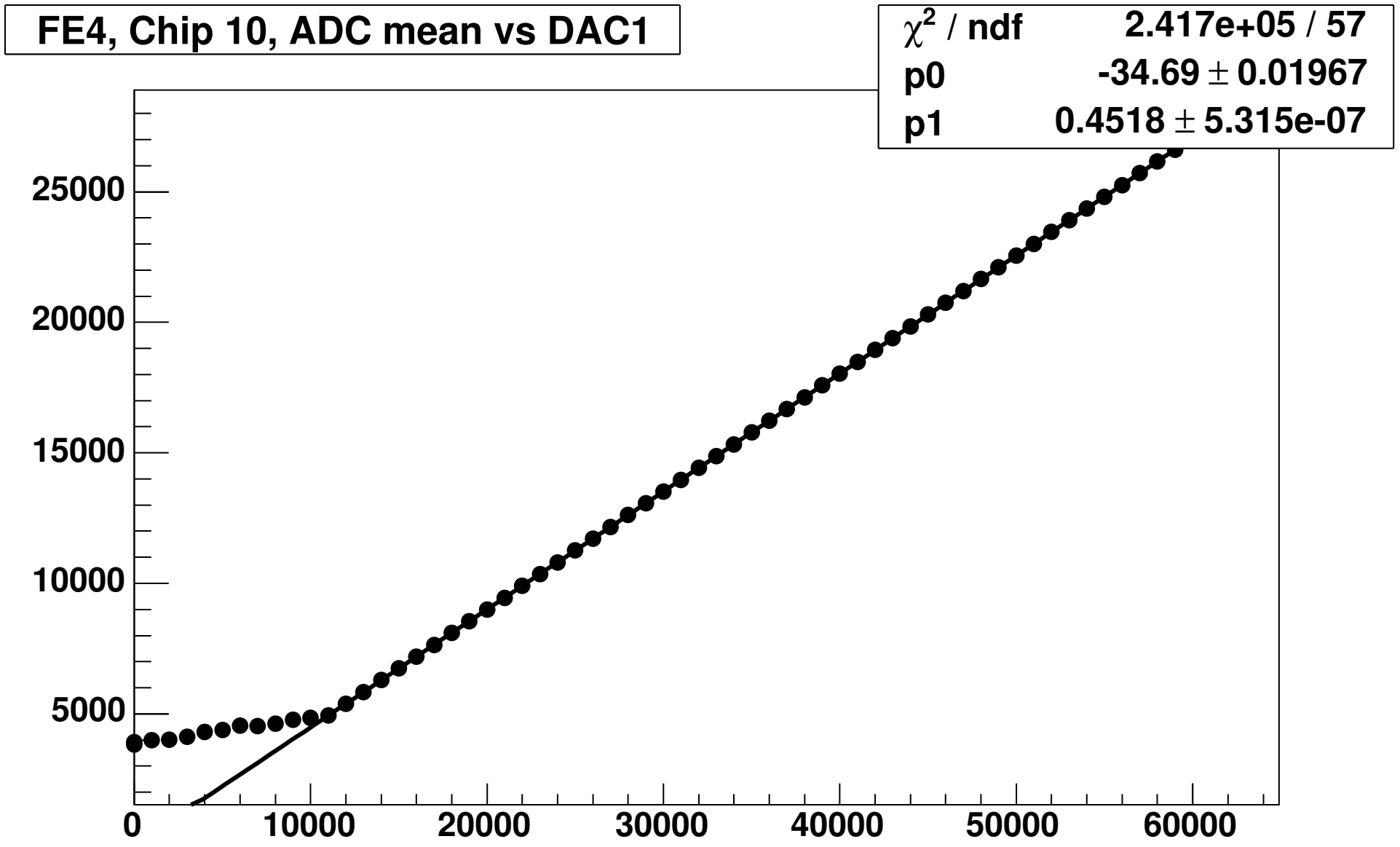
FE4, Chip 10, ADC mean vs DAC1
χ² / ndf 2.417e+05 / 57
p0 -34.69 ± 0.01967
p1 0.4518 ± 5.315e-07
25000
20000
15000
10000
5000
0
10000
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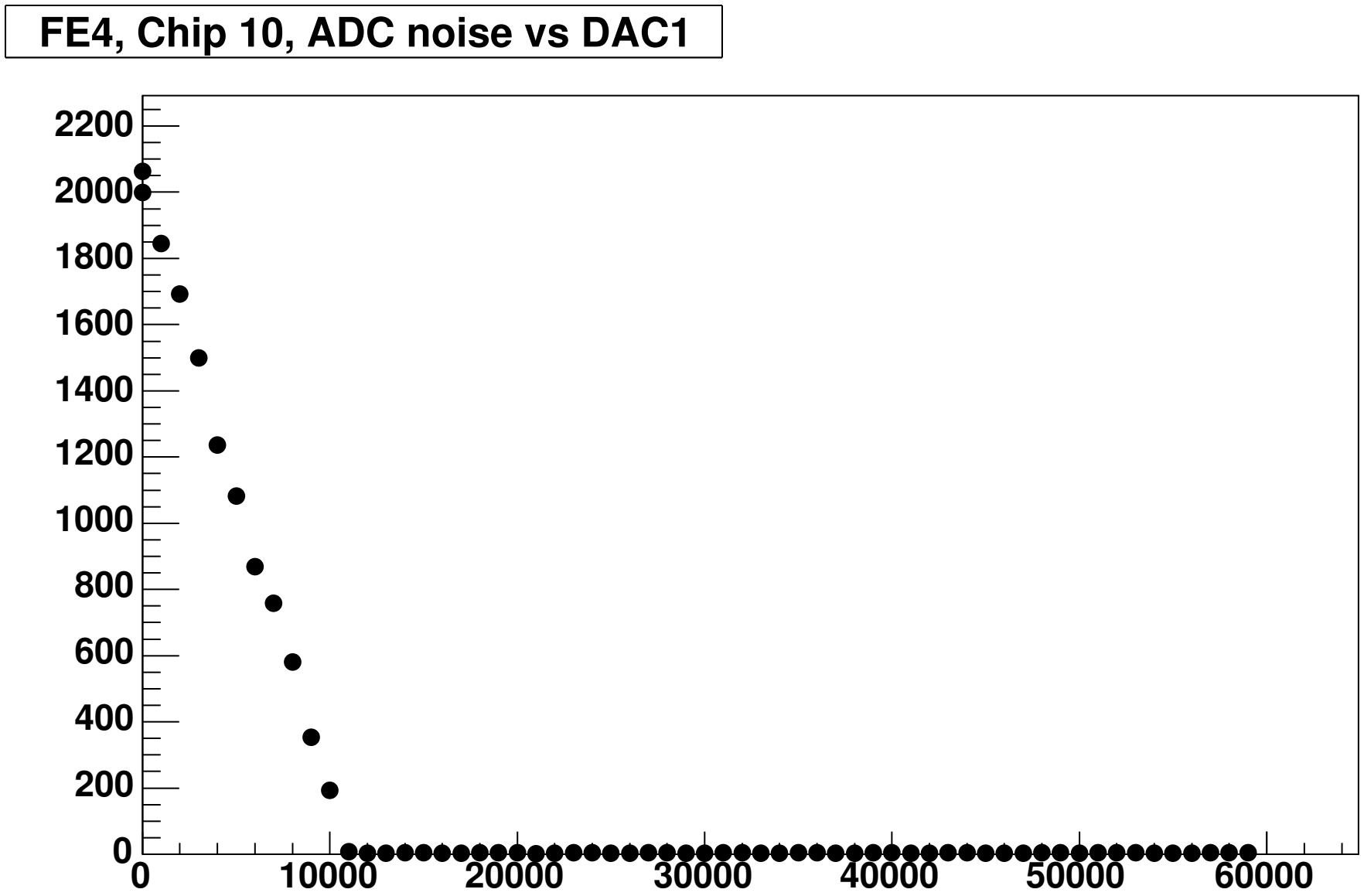
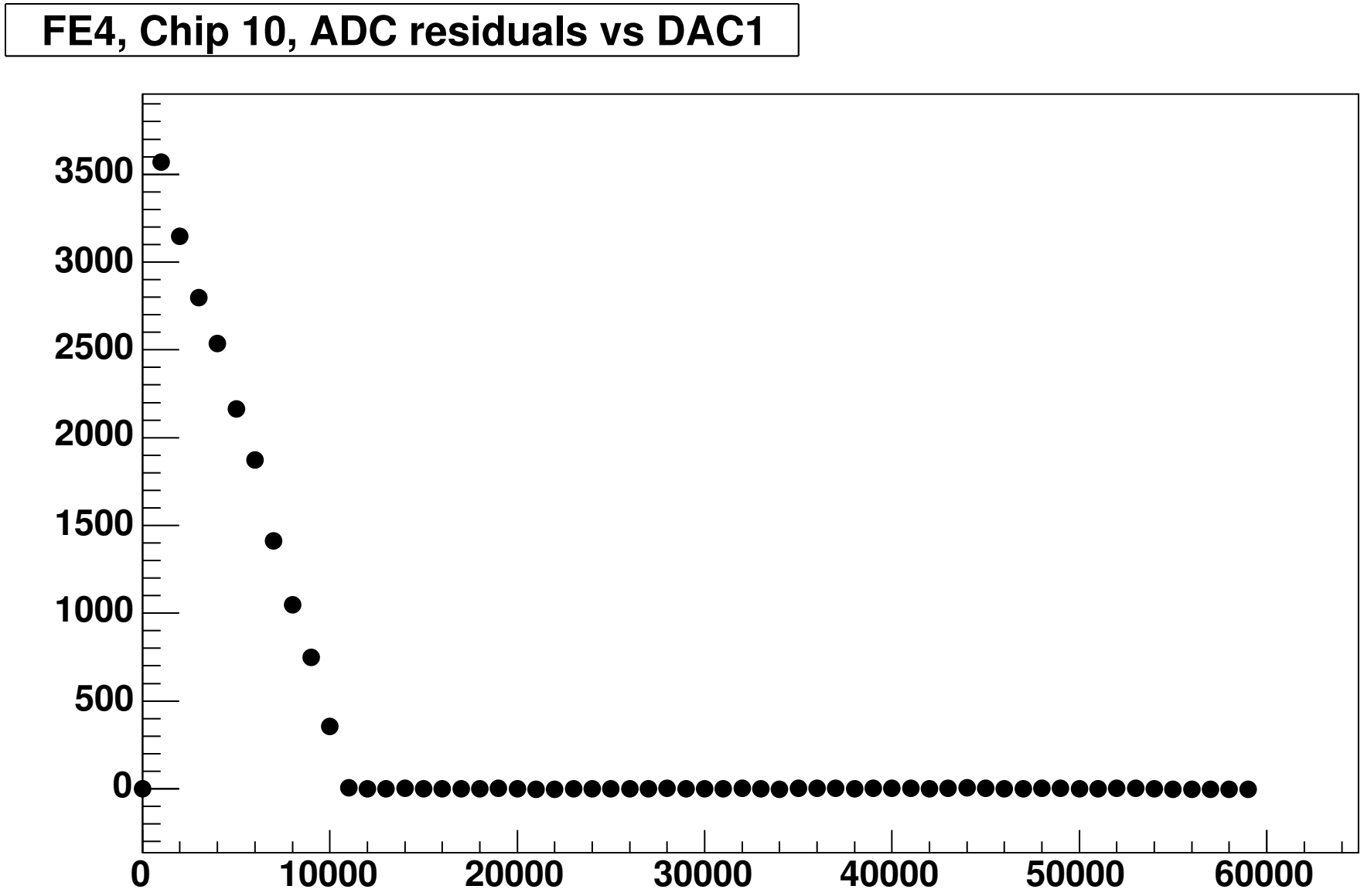
40000
50000
60000


FE4, Chip 10, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 10, ADC residuals vs DAC1
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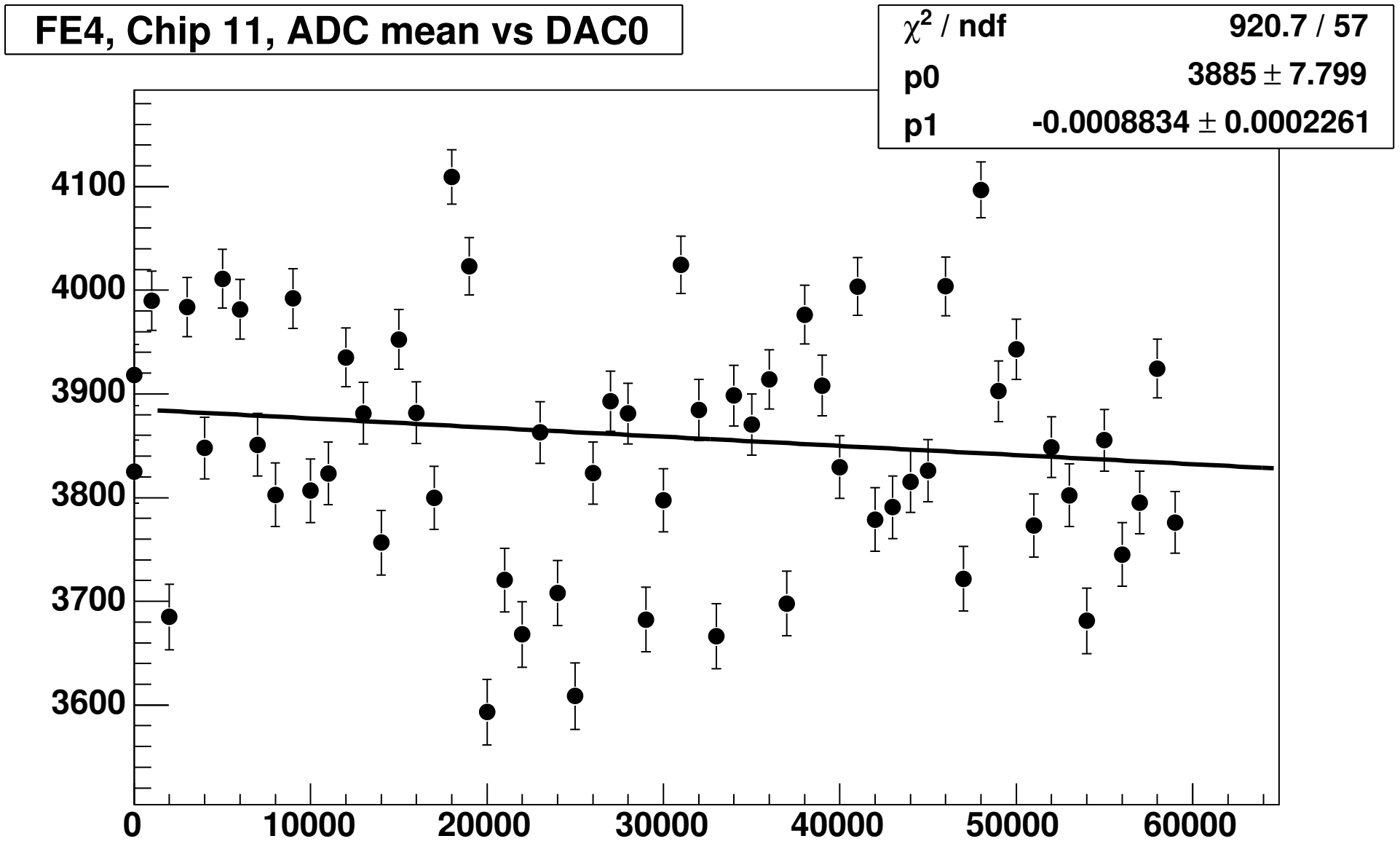
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 11, ADC mean vs DAC0
χ² / ndf 920.7 / 57
p0 3885 ± 7.799
p1 -0.0008834 ± 0.0002261
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4000
3900
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3700
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0
10000
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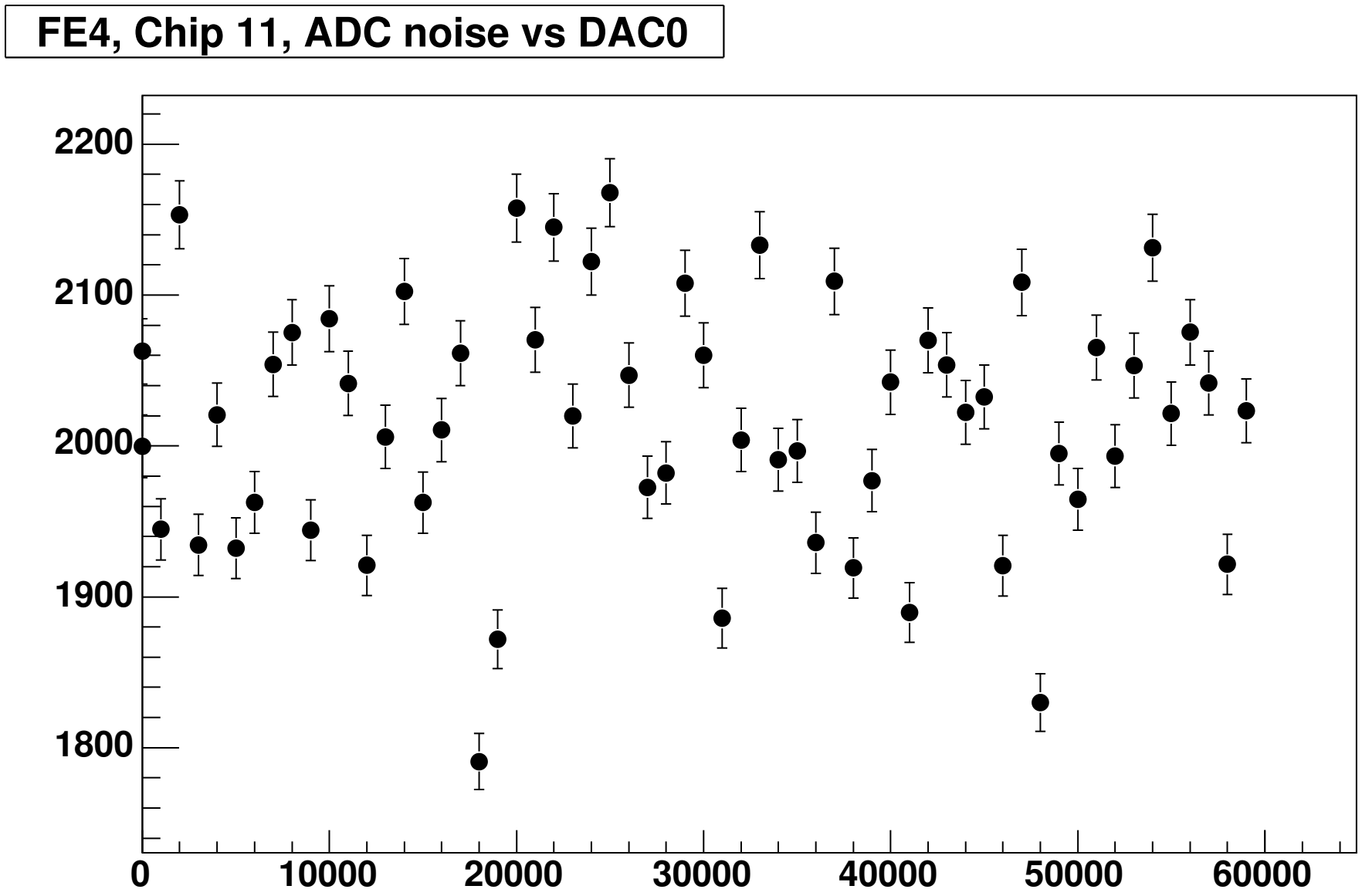
40000
50000
60000


FE4, Chip 11, ADC noise vs DAC0
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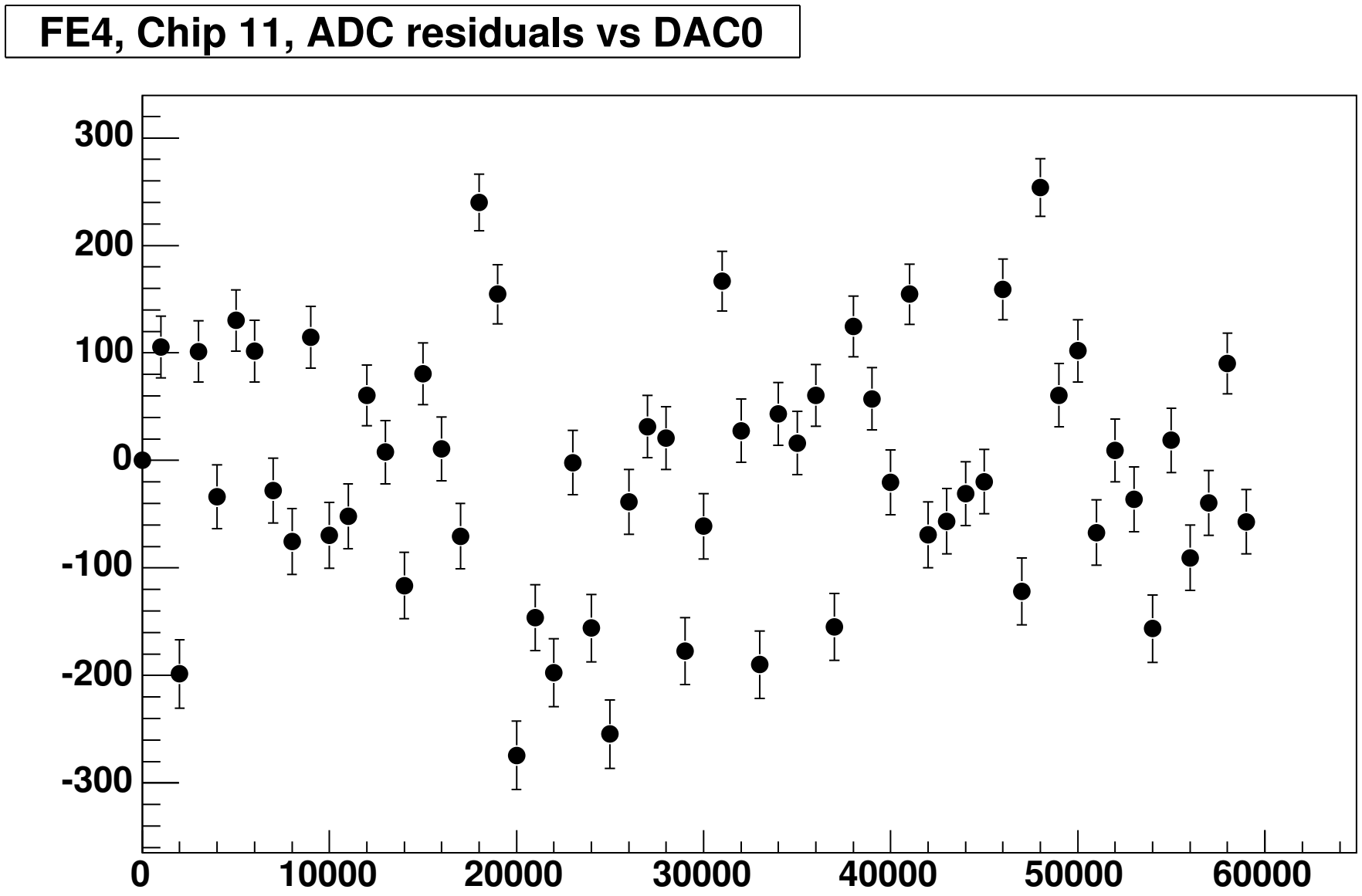
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE4, Chip 11, ADC residuals vs DAC0
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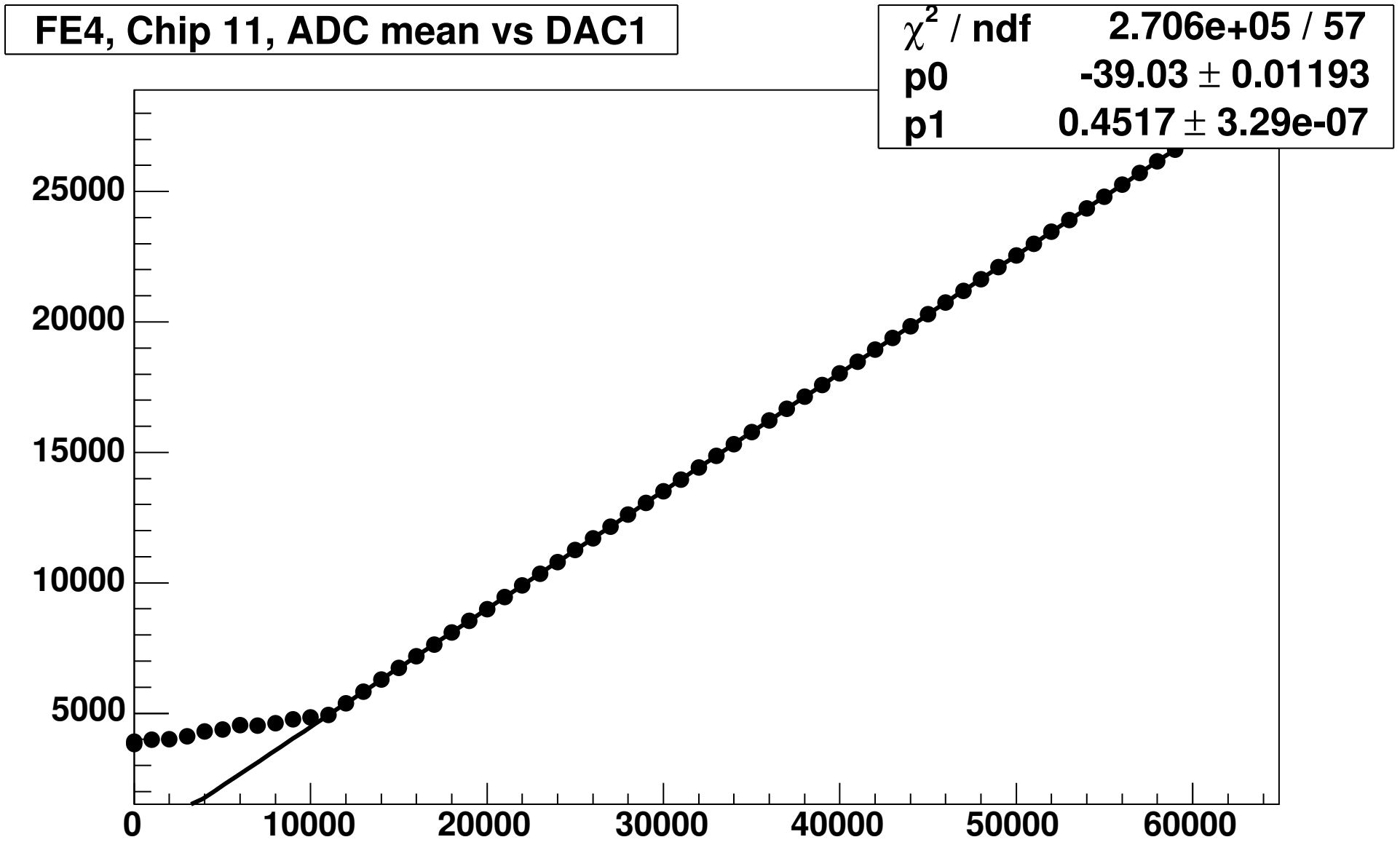
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE4, Chip 11, ADC mean vs DAC1
χ² / ndf 2.706e+05 / 57
p0 -39.03 ± 0.01193
p1 0.4517 ± 3.29e-07
25000
20000
15000
10000
5000
0
10000
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40000
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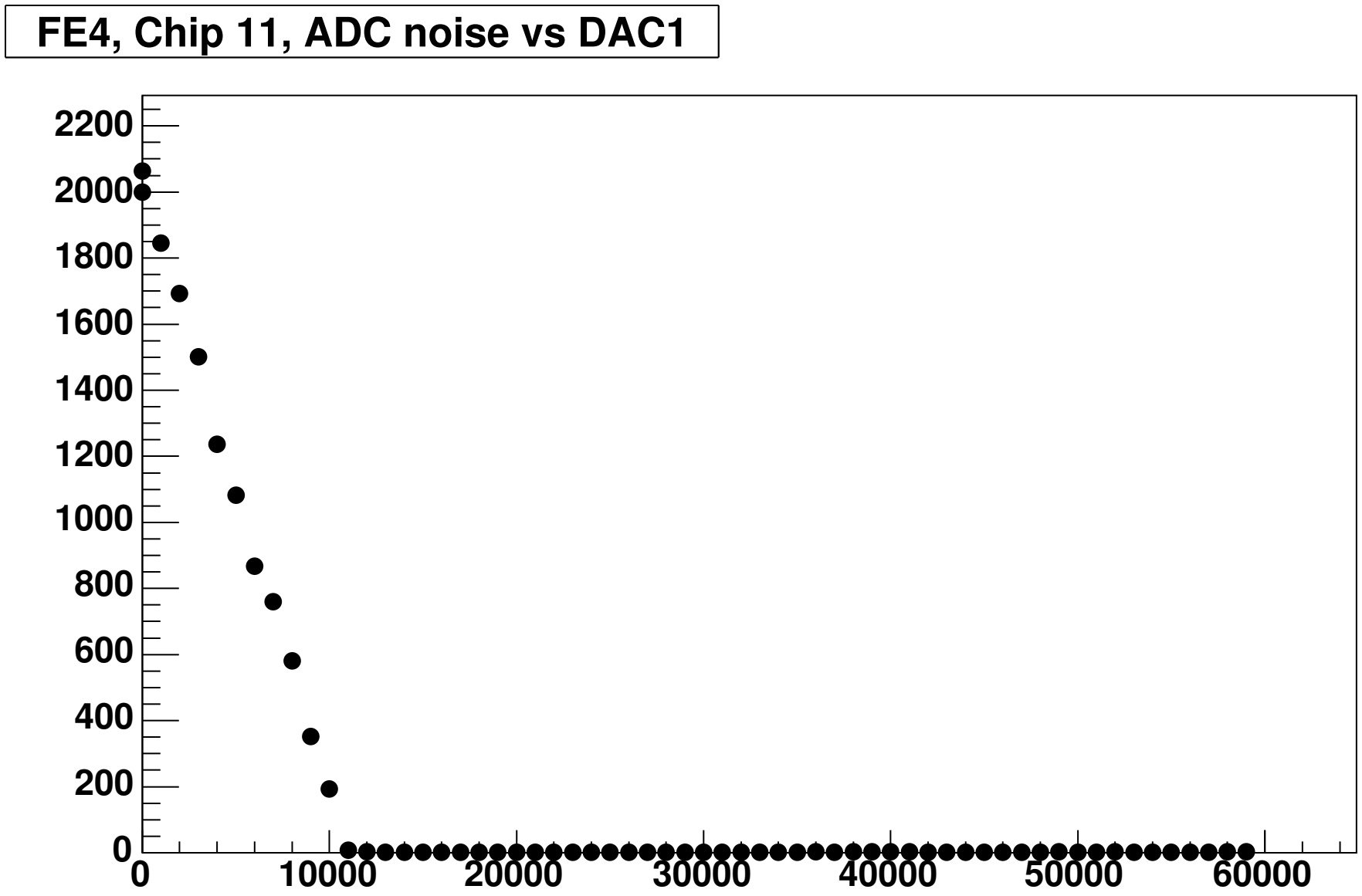
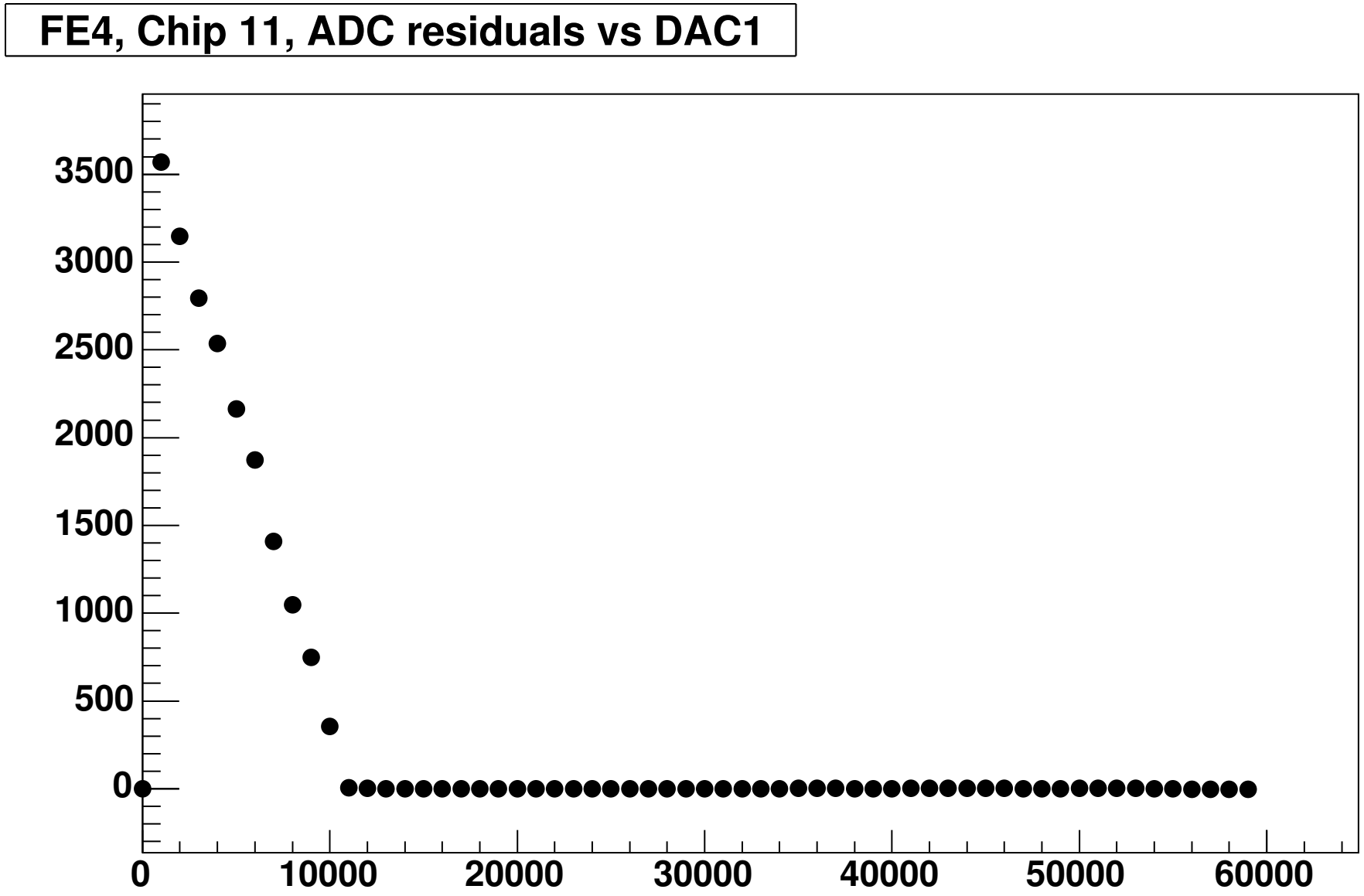
60000


FE4, Chip 11, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE4, Chip 11, ADC residuals vs DAC1
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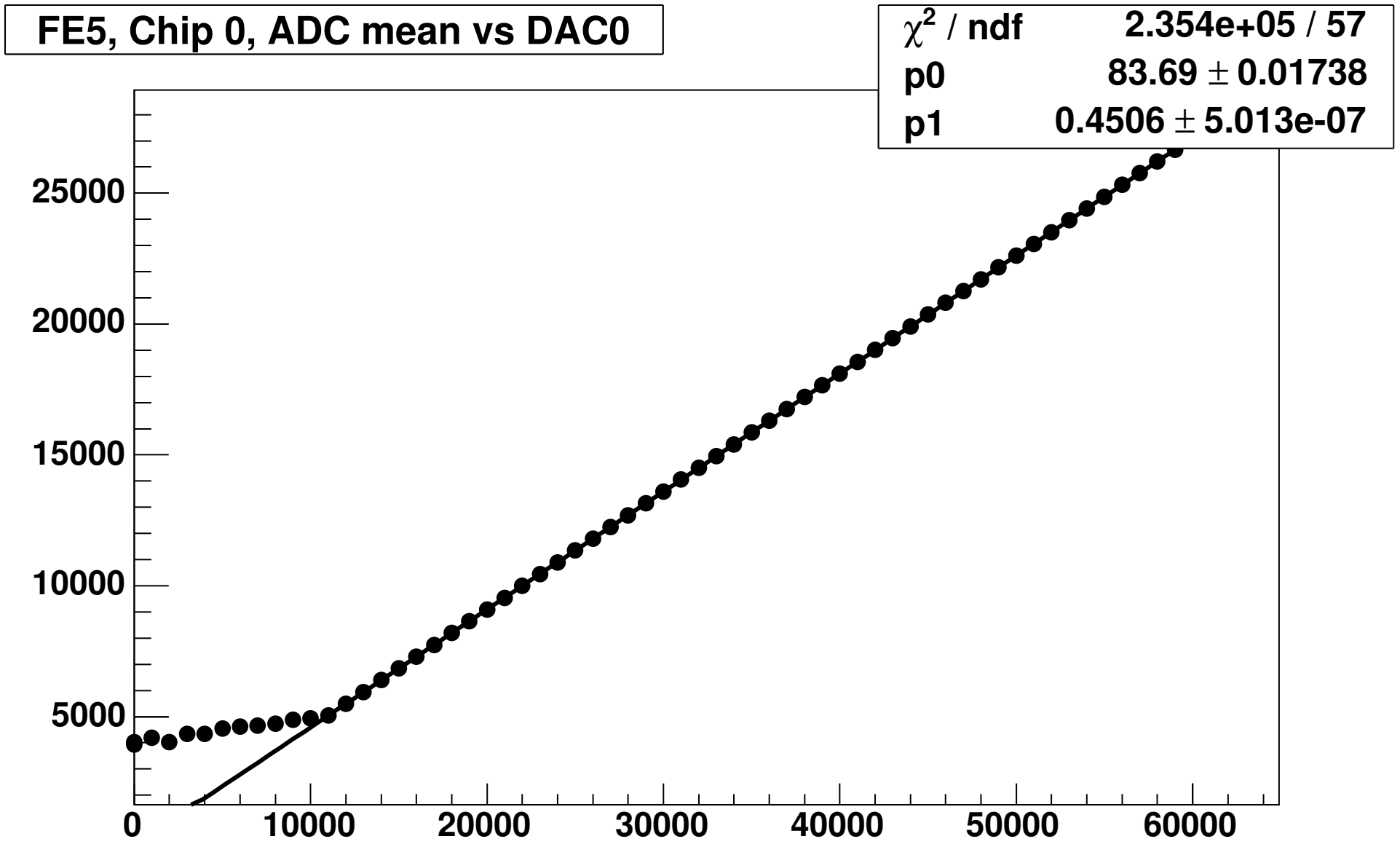
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 0, ADC mean vs DAC0
χ² / ndf 2.354e+05 / 57
p0 83.69 ± 0.01738
p1 0.4506 ± 5.013e-07
25000
20000
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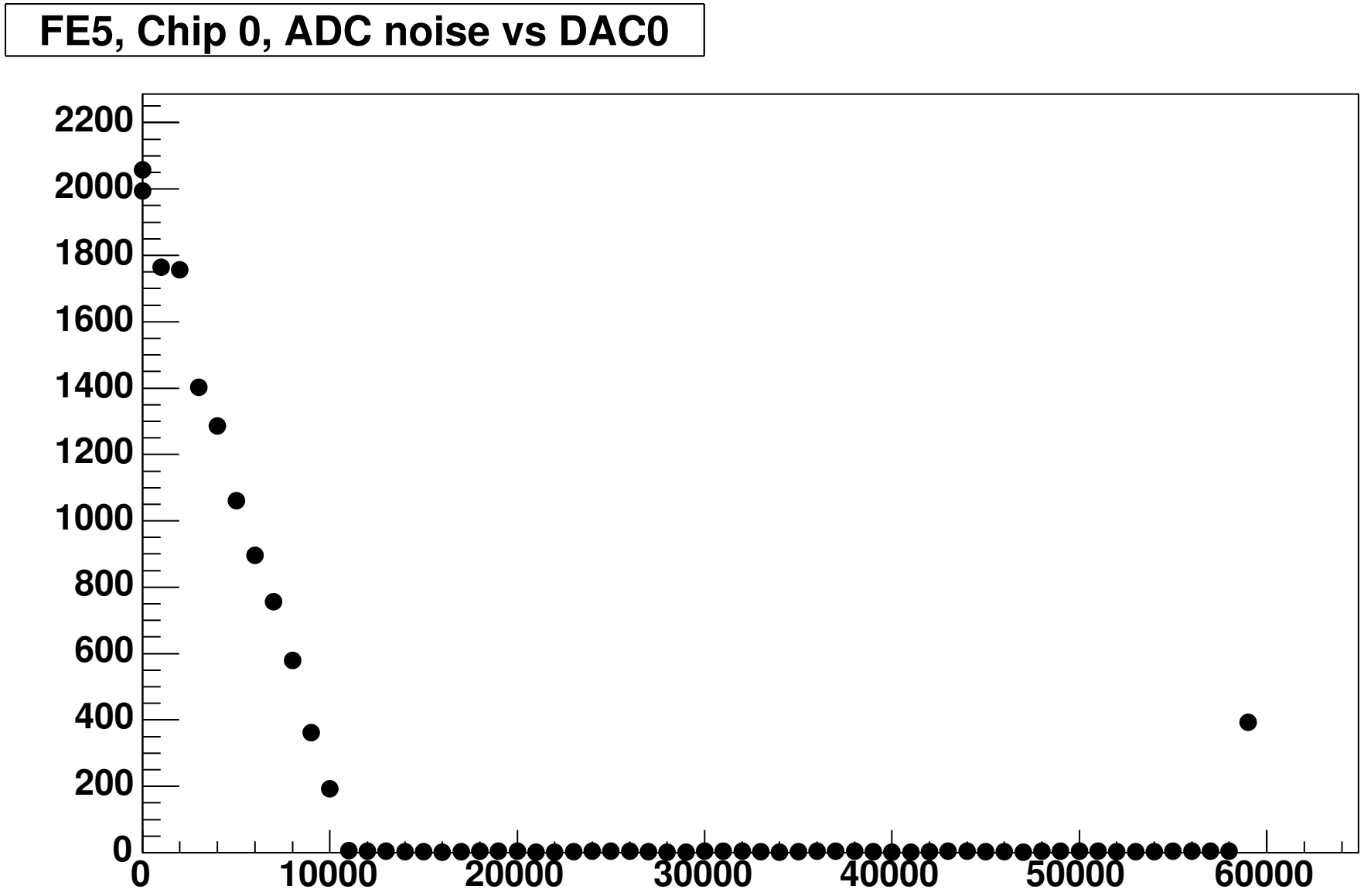
10000
5000
0
10000
20000
30000
40000
50000
60000


FE5, Chip 0, ADC noise vs DAC0
2200
2000
1800
1600
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1200
1000
800
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10000
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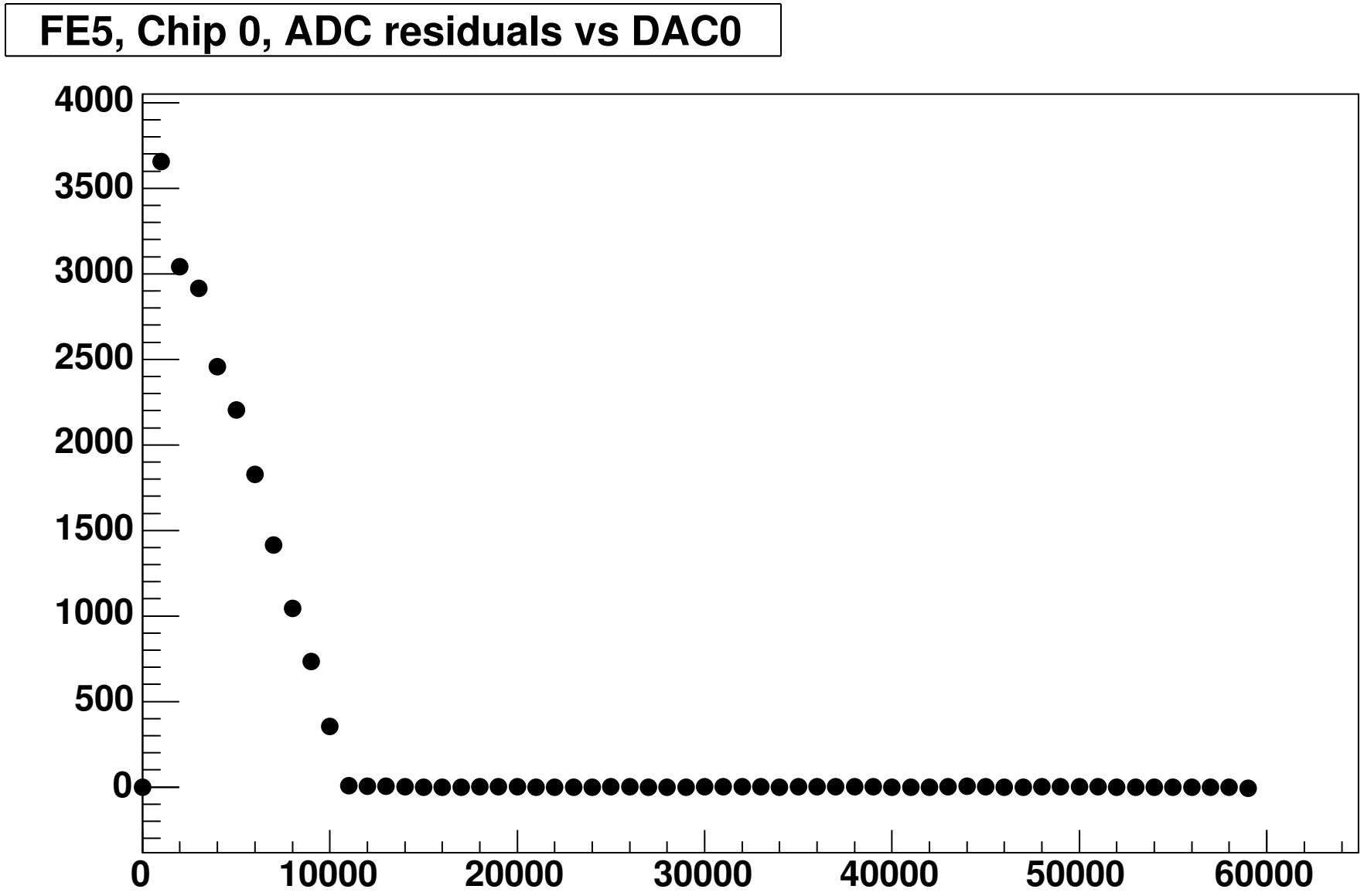
FE5, Chip 0, ADC residuals vs DAC0
4000
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
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40000
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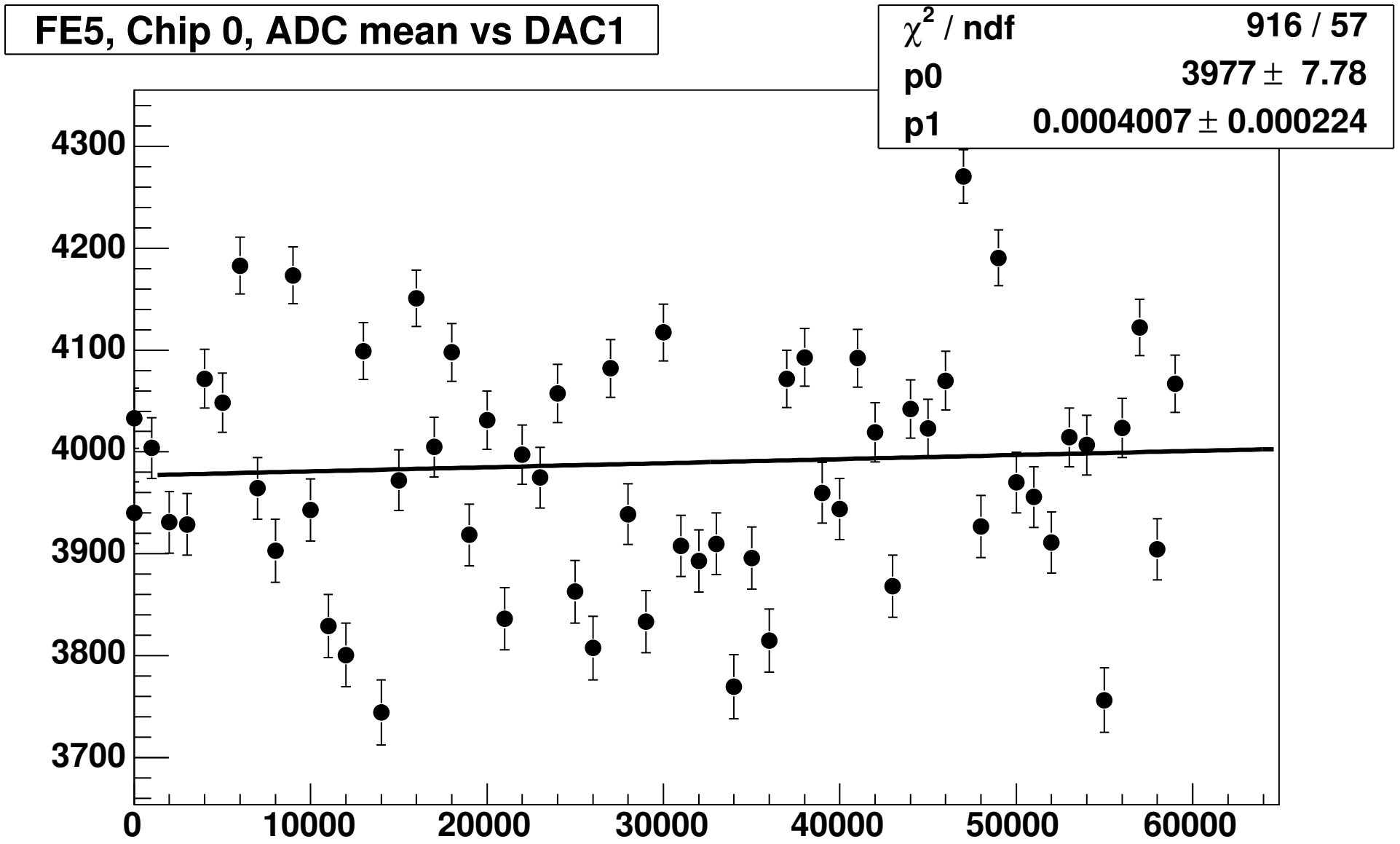
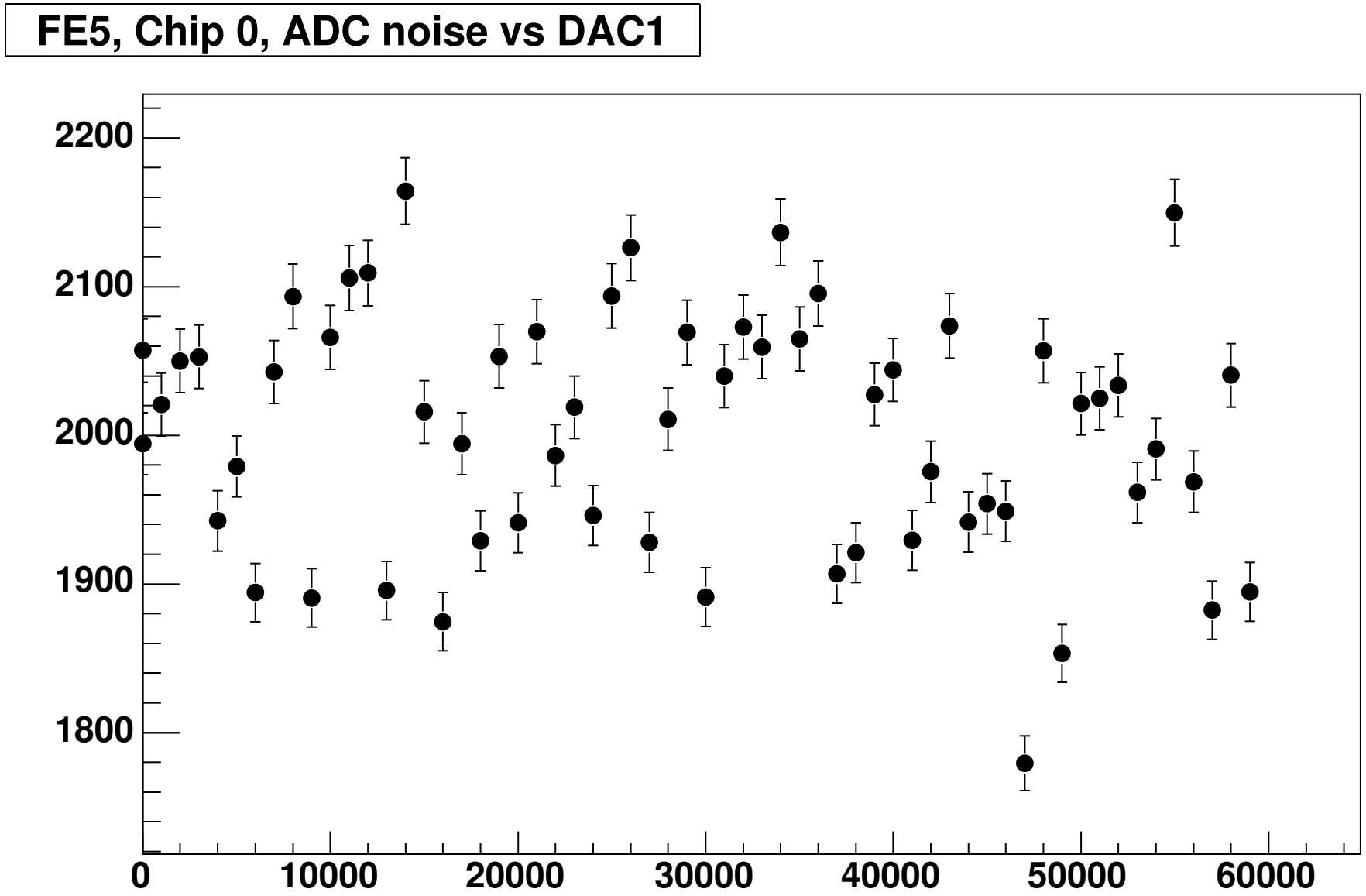
60000


FE5, Chip 0, ADC mean vs DAC1
χ² / ndf 916 / 57
p0 3977 ± 7.78
p1 0.0004007 ± 0.000224
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE5, Chip 0, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
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40000
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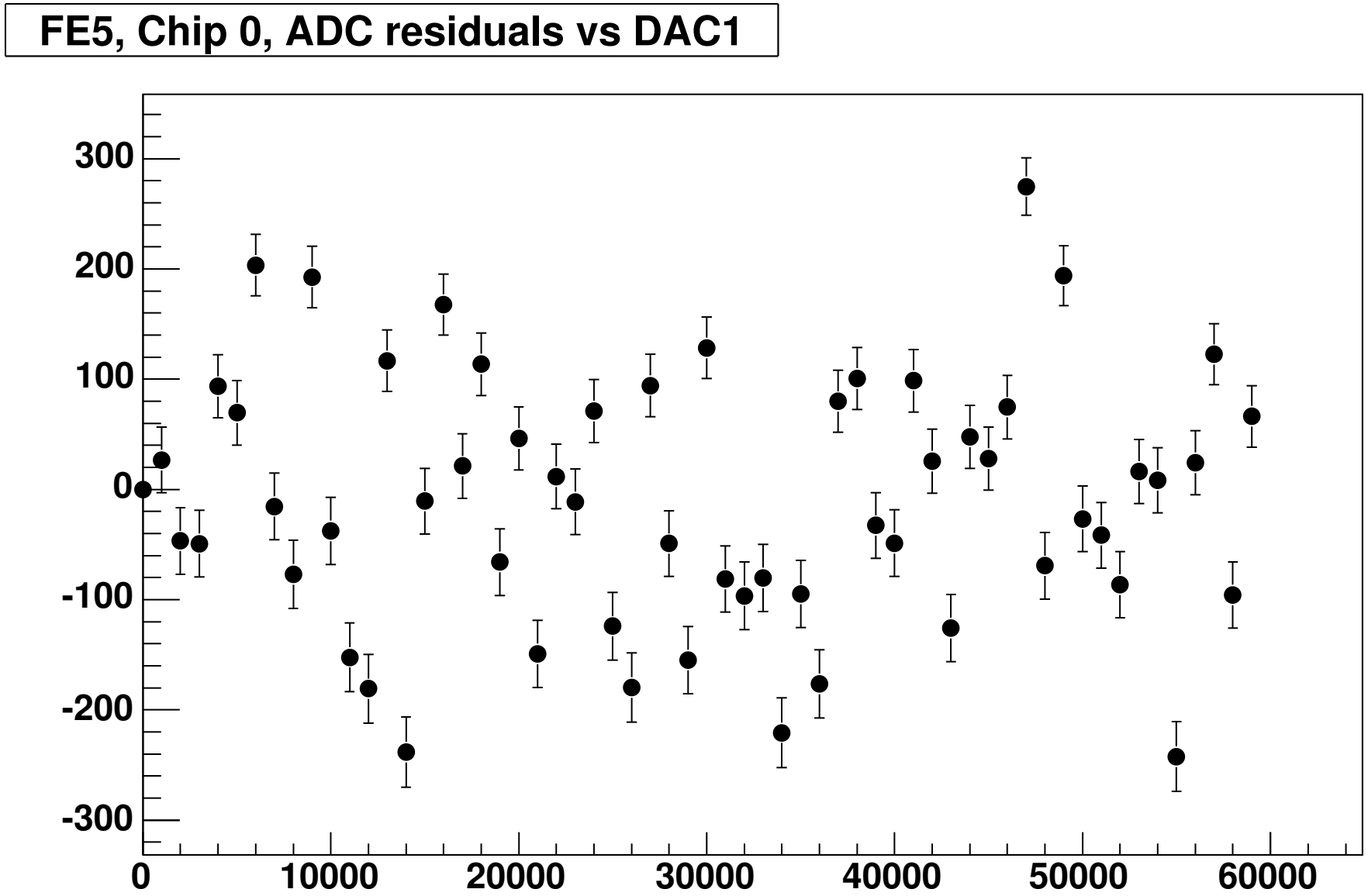
FE5, Chip 0, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
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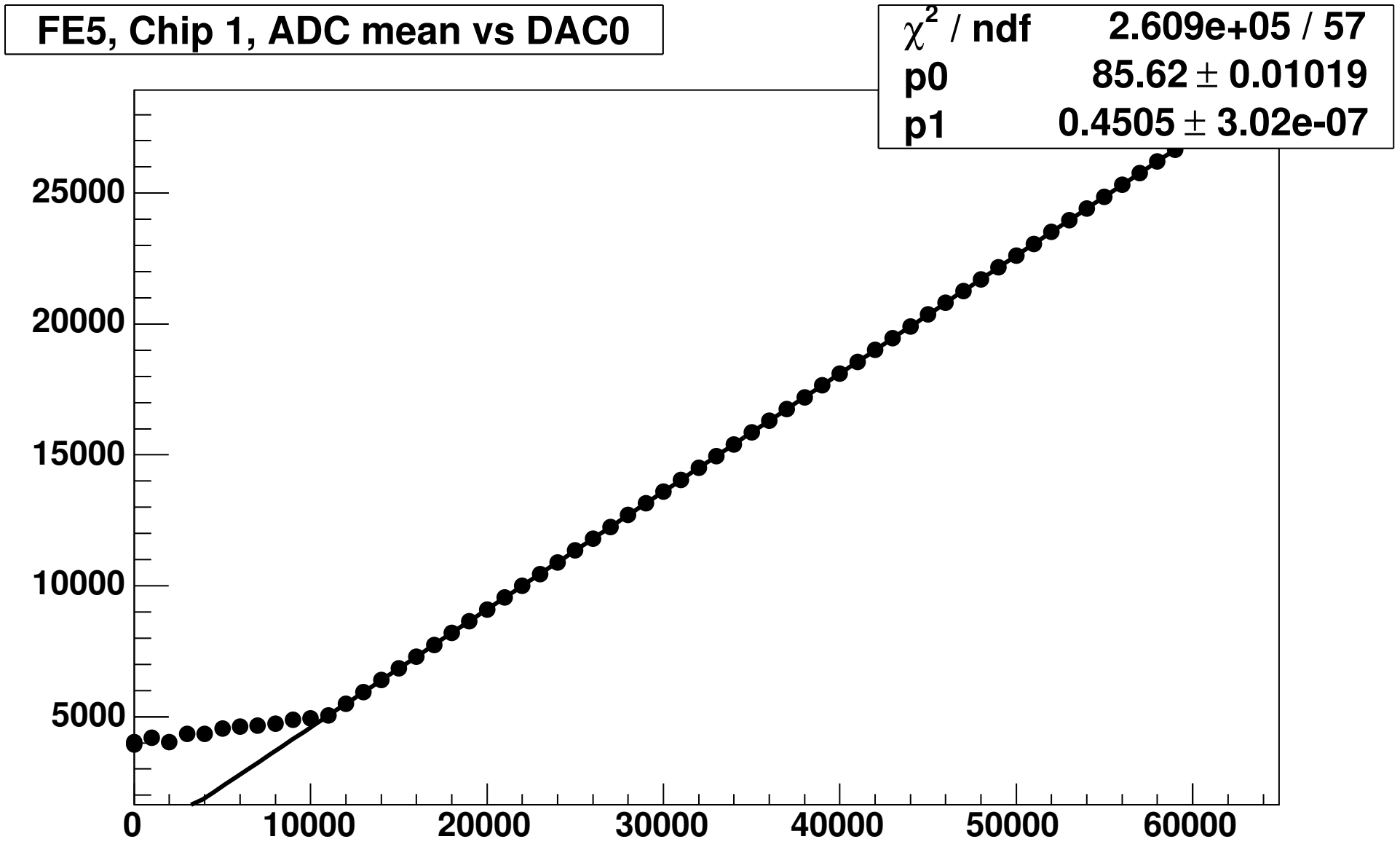
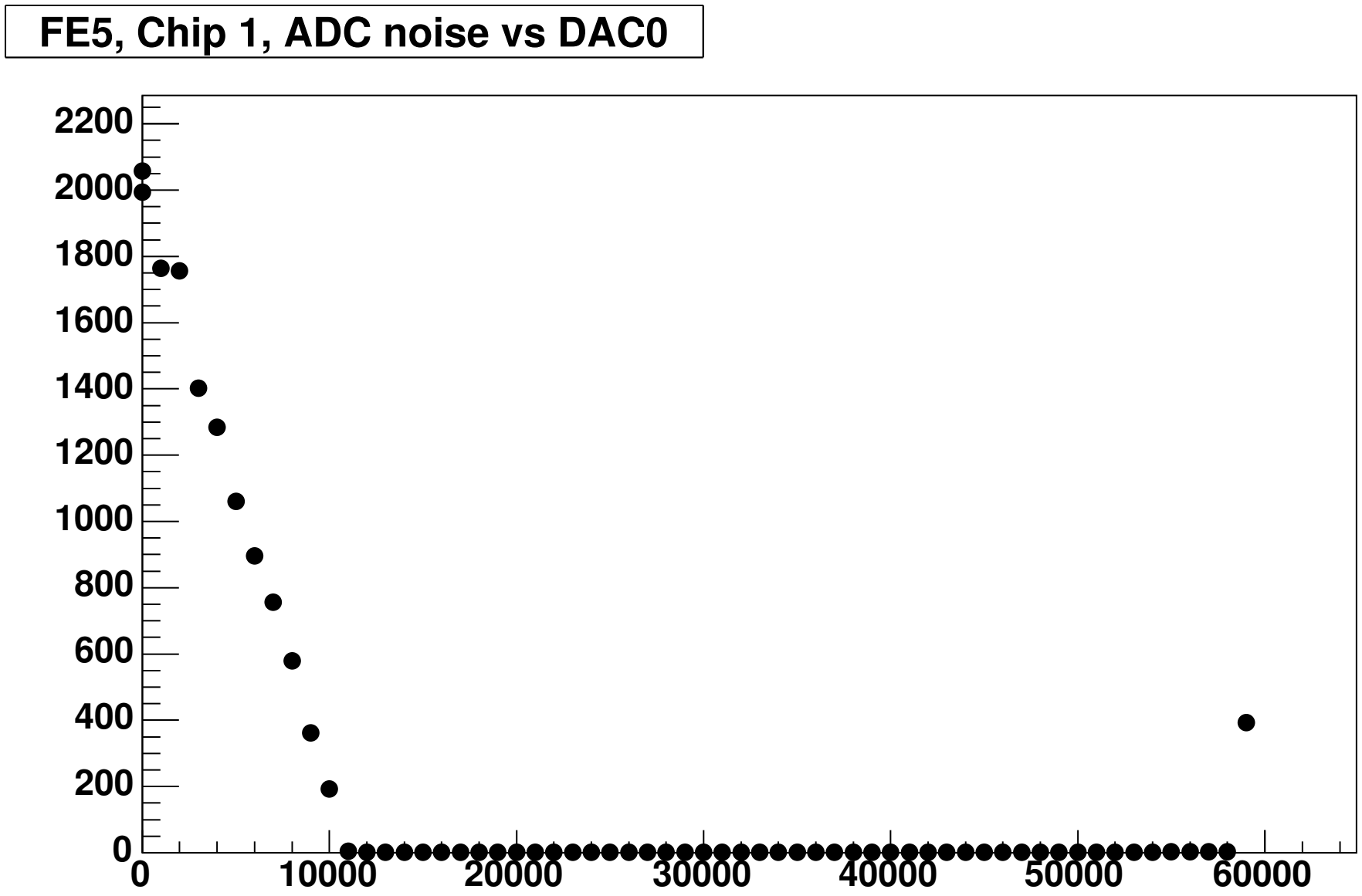
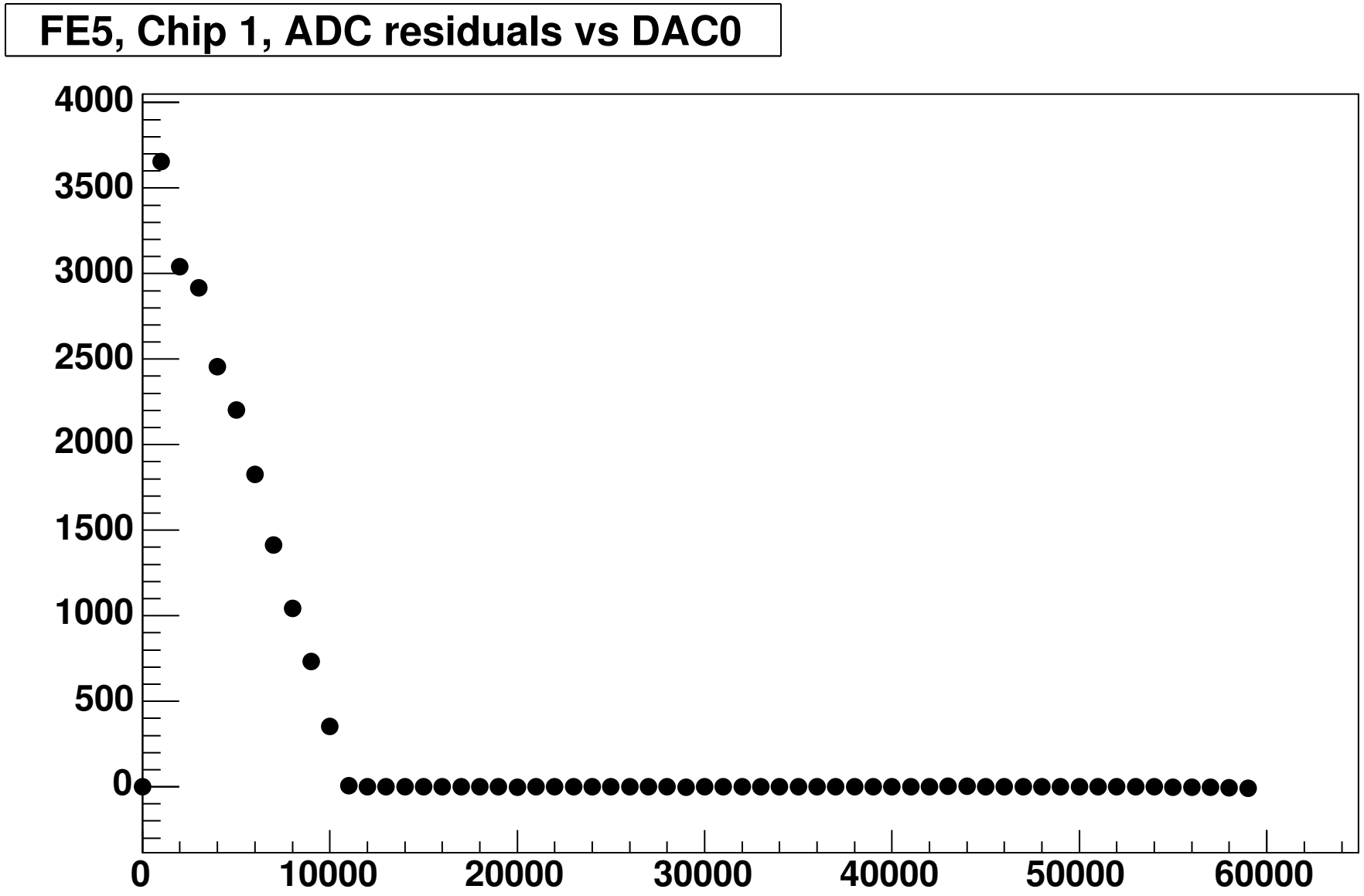
50000
60000


FE5, Chip 1, ADC mean vs DAC0
χ² / ndf 2.609e+05 / 57
p0 85.62 ± 0.01019
p1 0.4505 ± 3.02e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE5, Chip 1, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 1, ADC residuals vs DAC0
4000
3500
3000
2500
2000
1500
1000
500
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0
10000
20000
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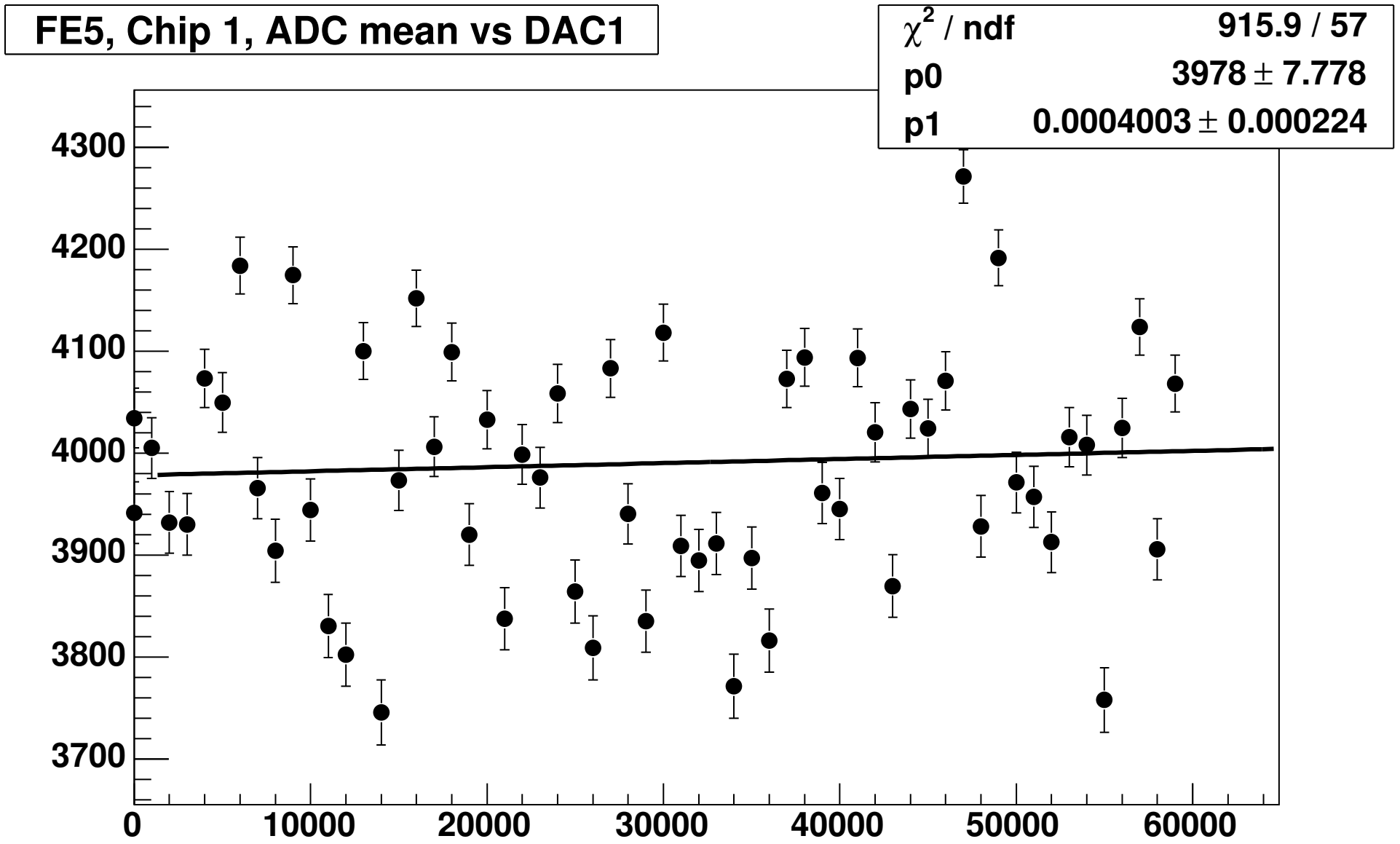
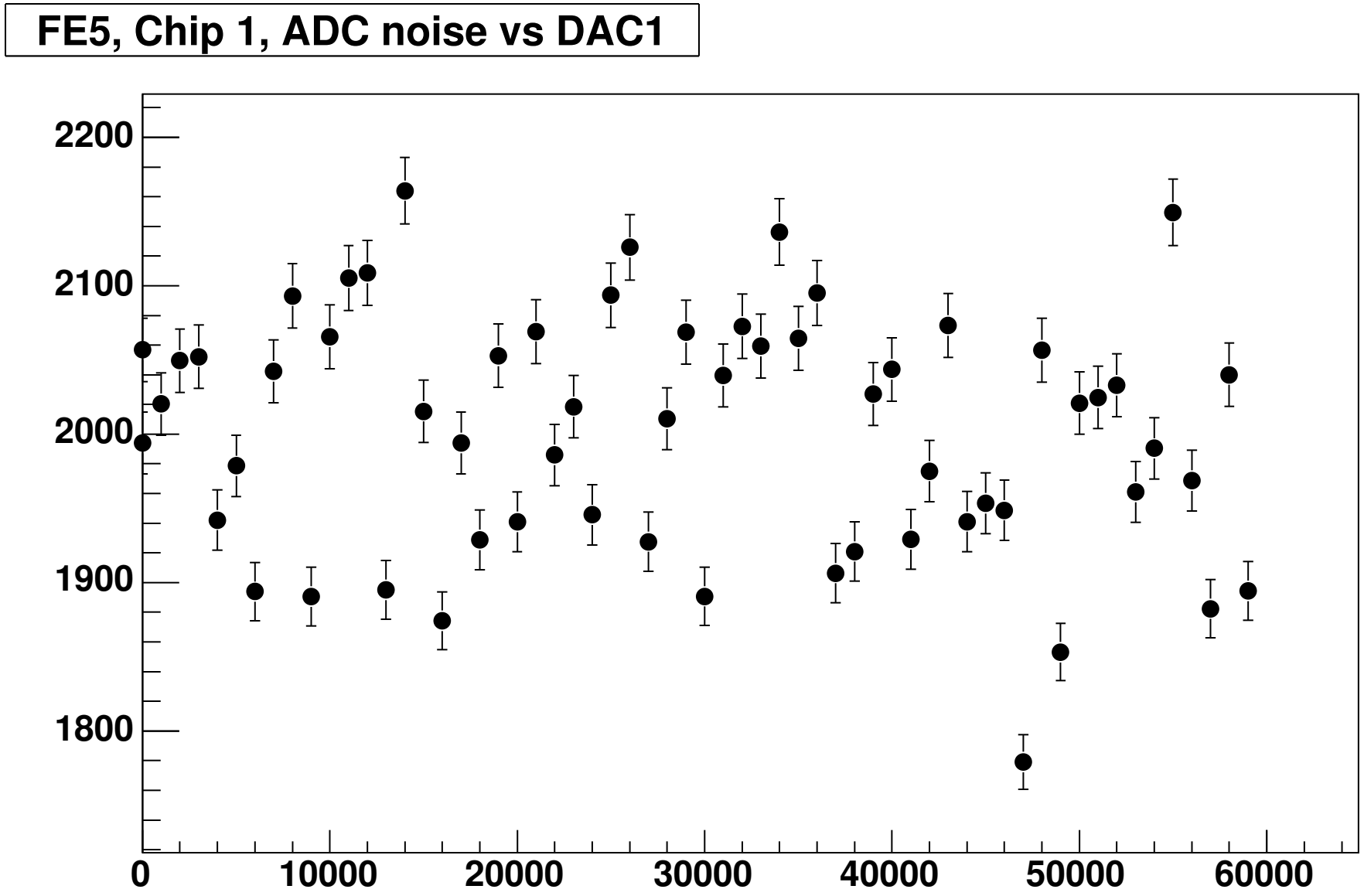
40000
50000
60000


FE5, Chip 1, ADC mean vs DAC1
χ² / ndf 915.9 / 57
p0 3978 ± 7.778
p1 0.0004003 ± 0.000224
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE5, Chip 1, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
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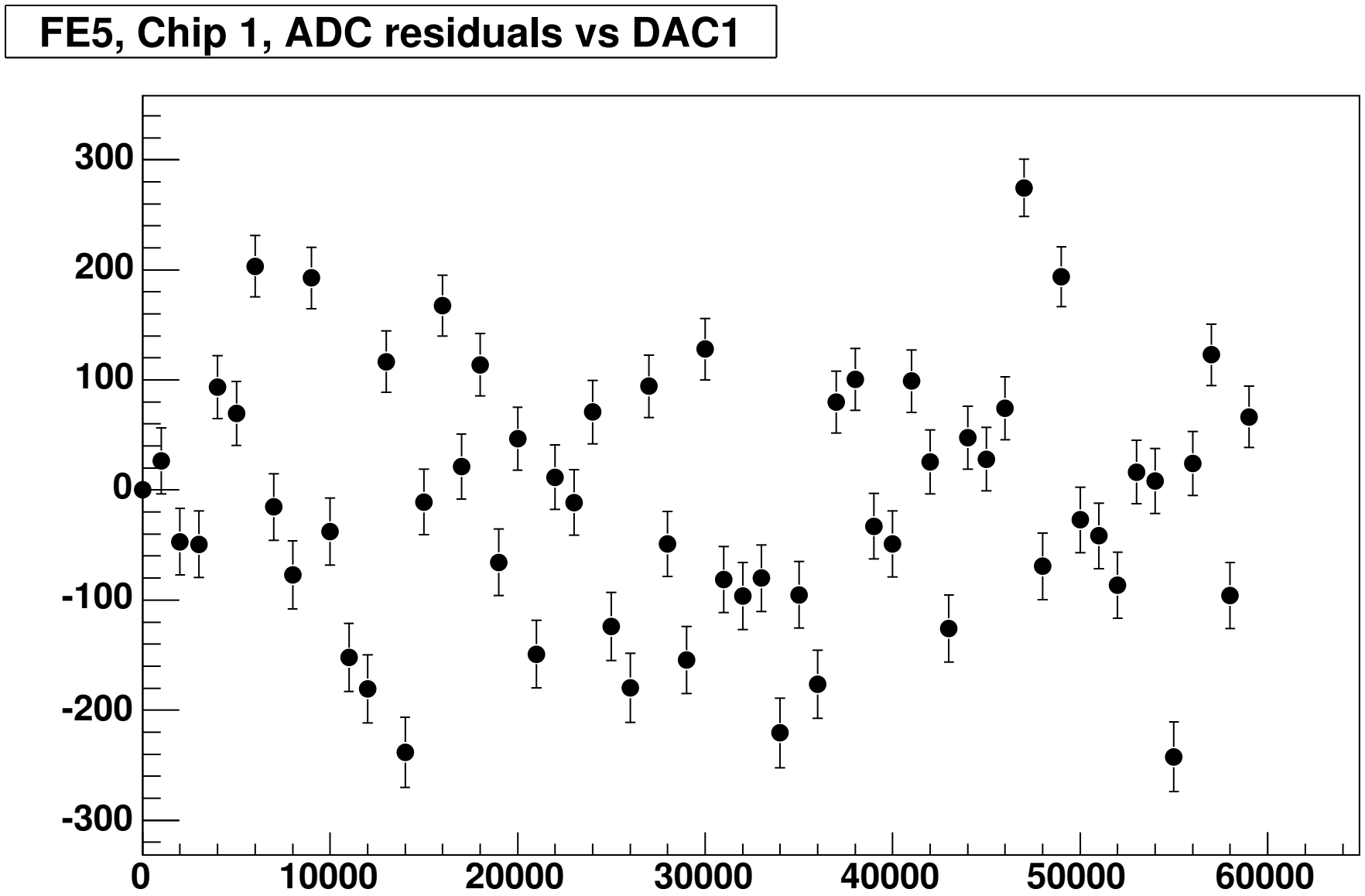
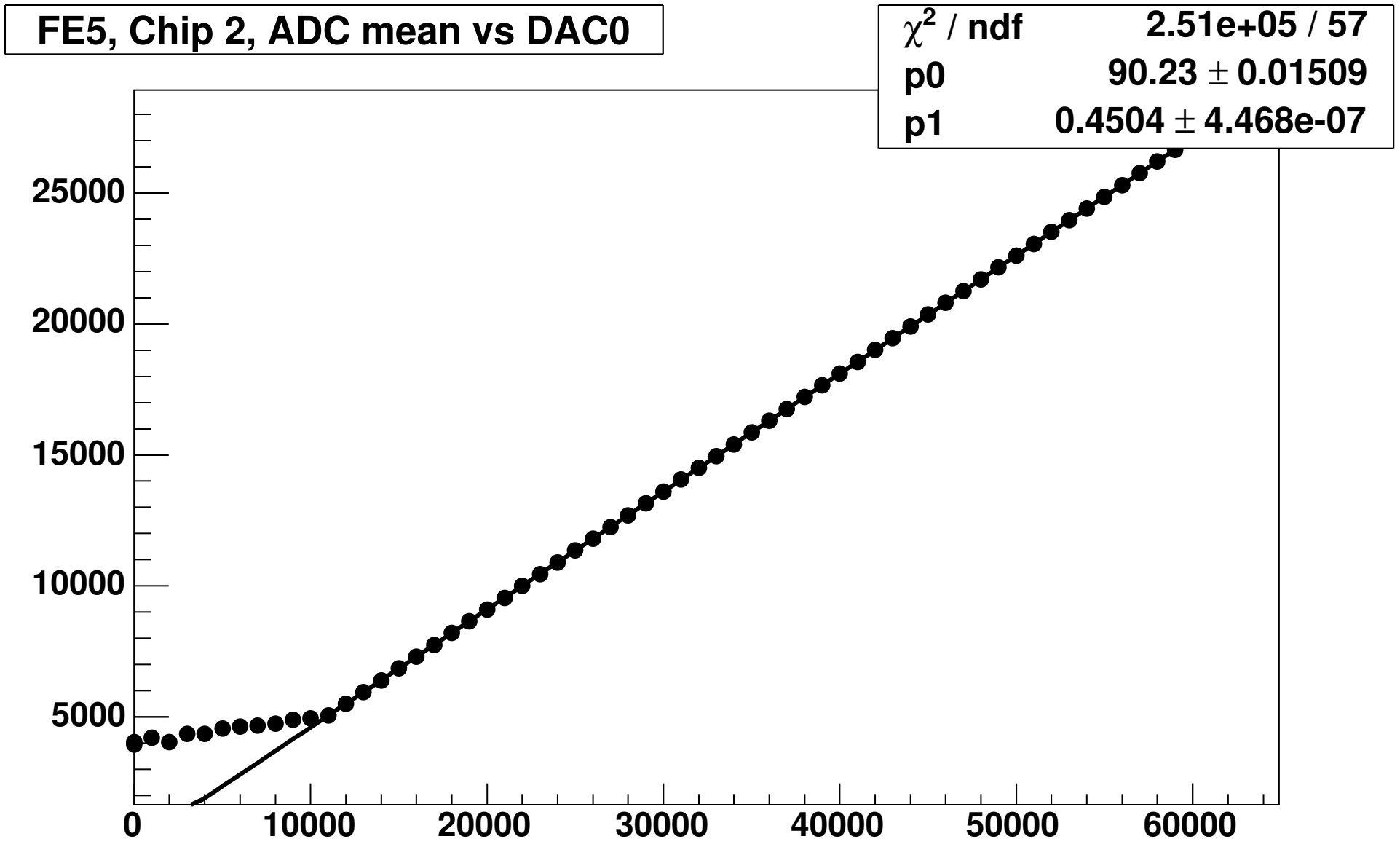

FE5, Chip 1, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE5, Chip 2, ADC mean vs DAC0
χ² / ndf 2.51e+05 / 57
p0 90.23 ± 0.01509
p1 0.4504 ± 4.468e-07
25000
20000
15000
10000
5000
0
10000
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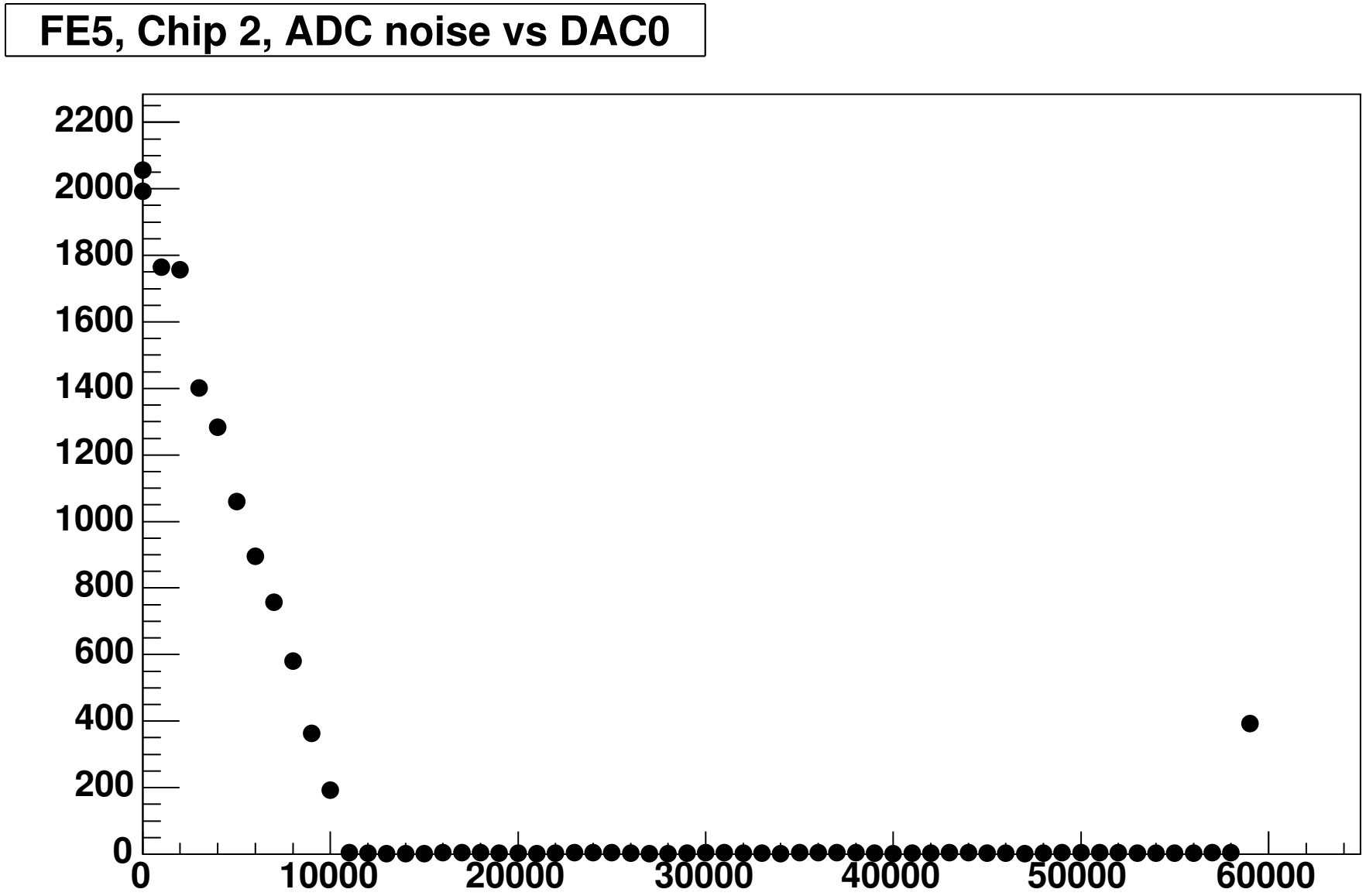
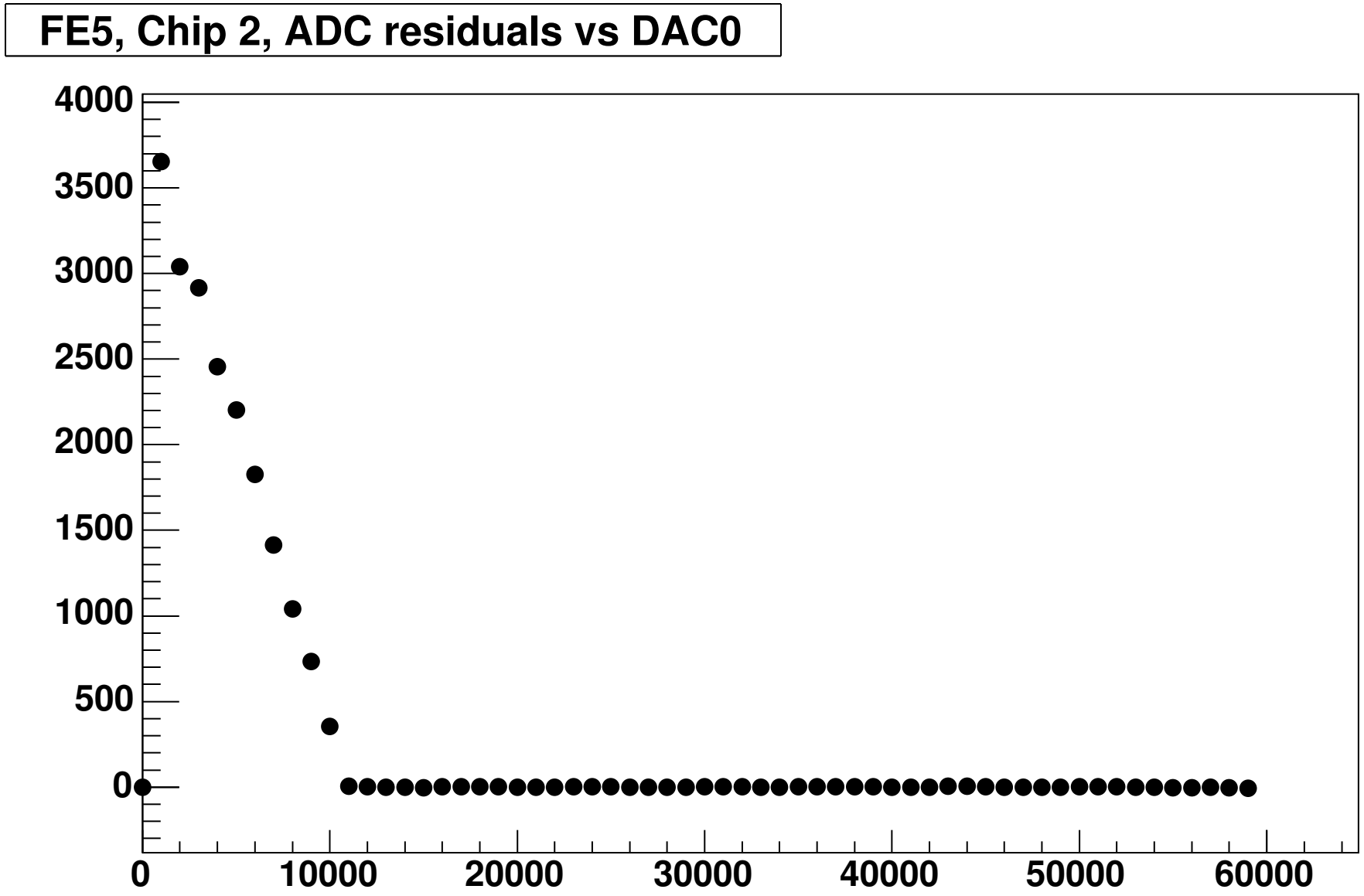
30000
40000
50000
60000


FE5, Chip 2, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 2, ADC residuals vs DAC0
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3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
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40000
50000
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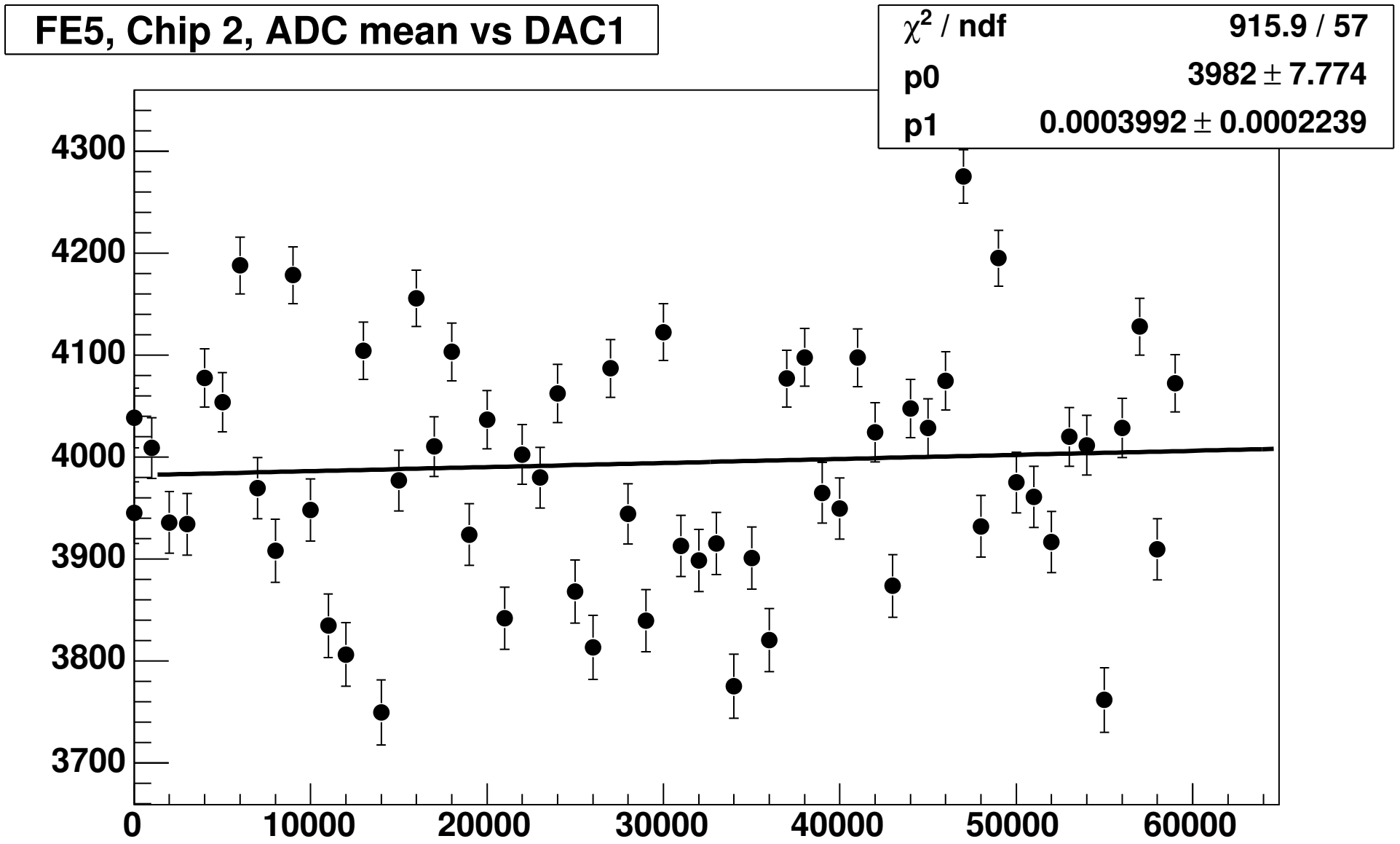
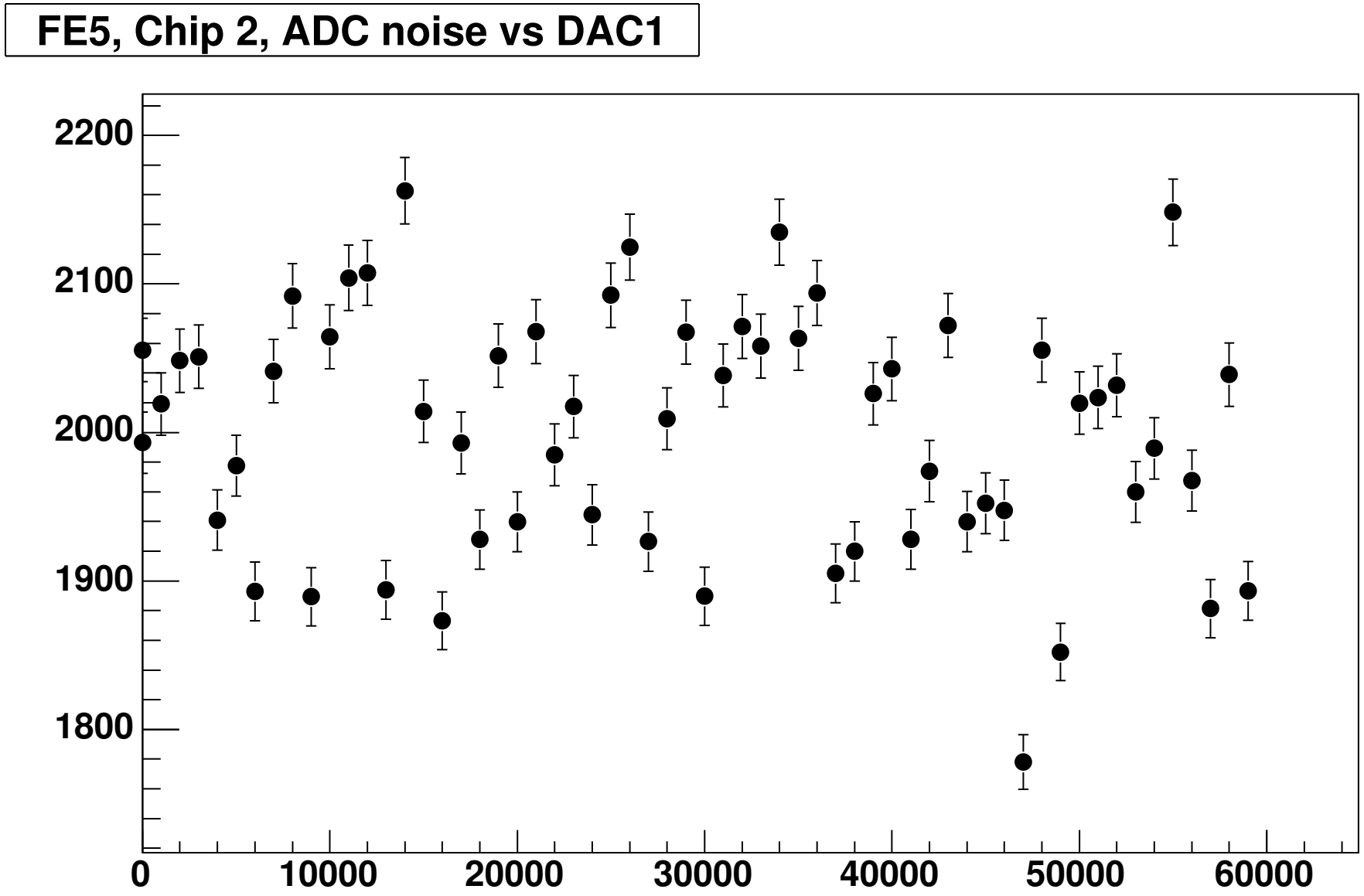
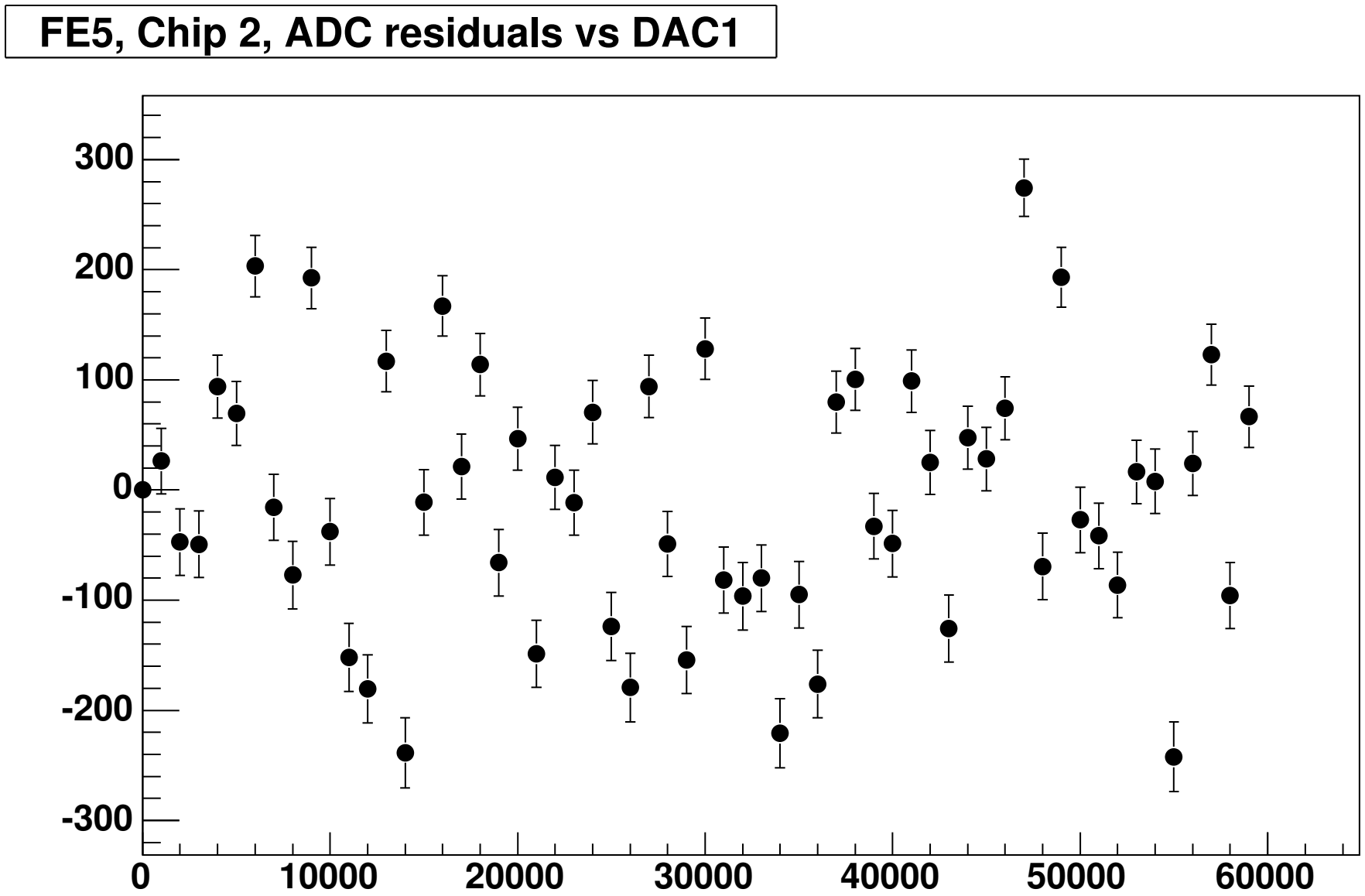
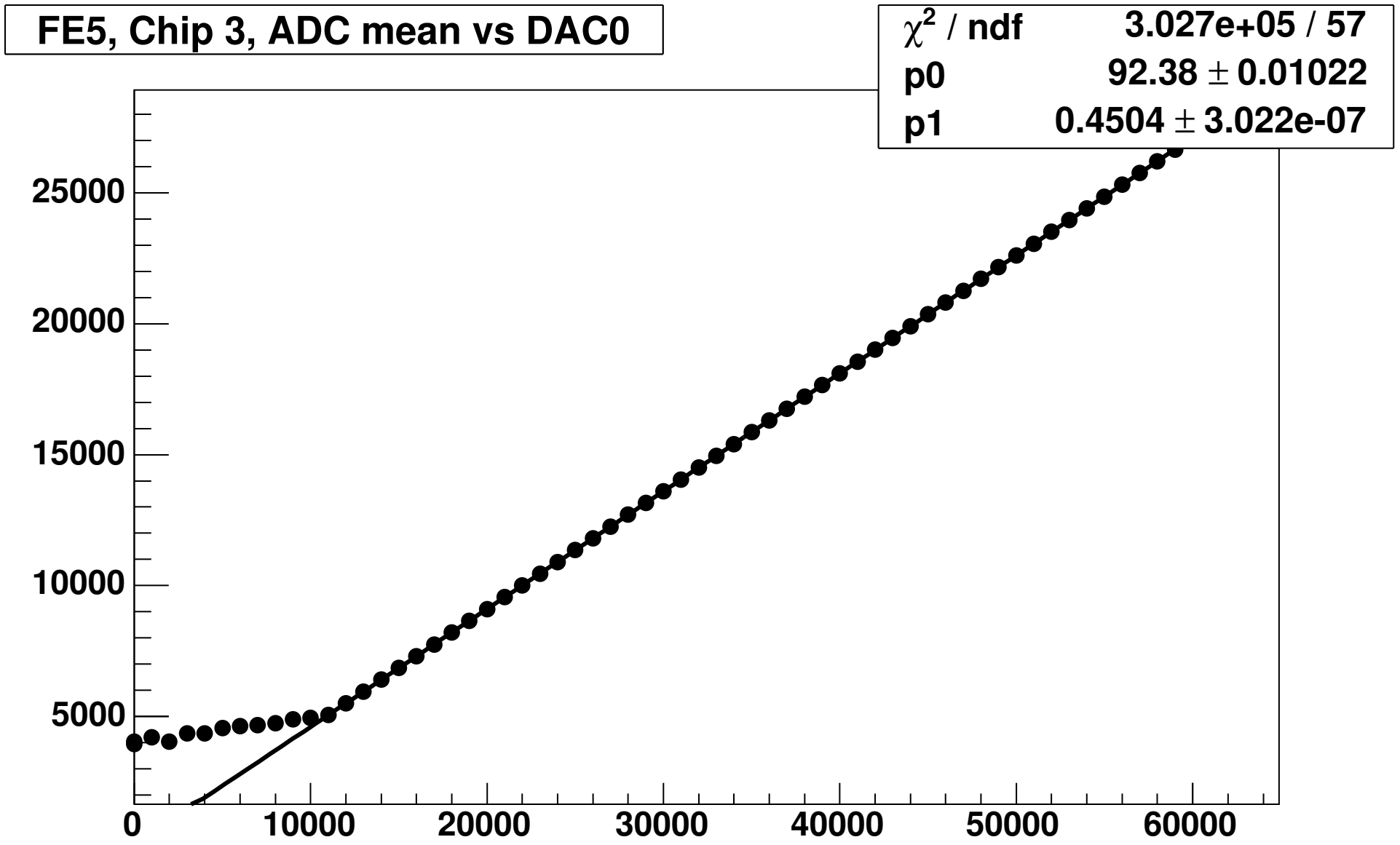

FE5, Chip 2, ADC mean vs DAC1
χ² / ndf 915.9 / 57
p0 3982 ± 7.774
p1 0.0003992 ± 0.0002239
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE5, Chip 2, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE5, Chip 2, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE5, Chip 3, ADC mean vs DAC0
χ² / ndf 3.027e+05 / 57
p0 92.38 ± 0.01022
p1 0.4504 ± 3.022e-07
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20000
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0
10000
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40000
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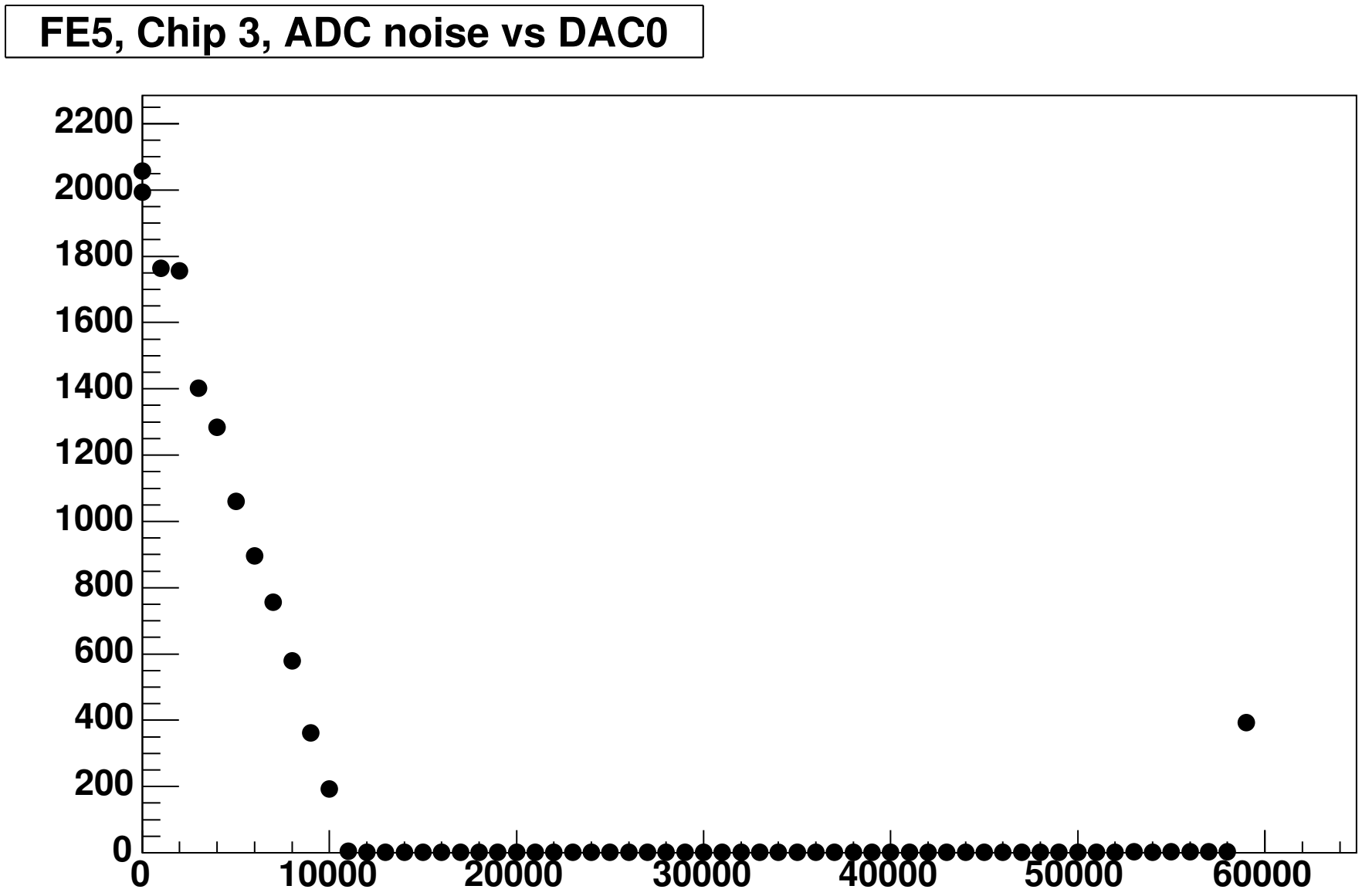
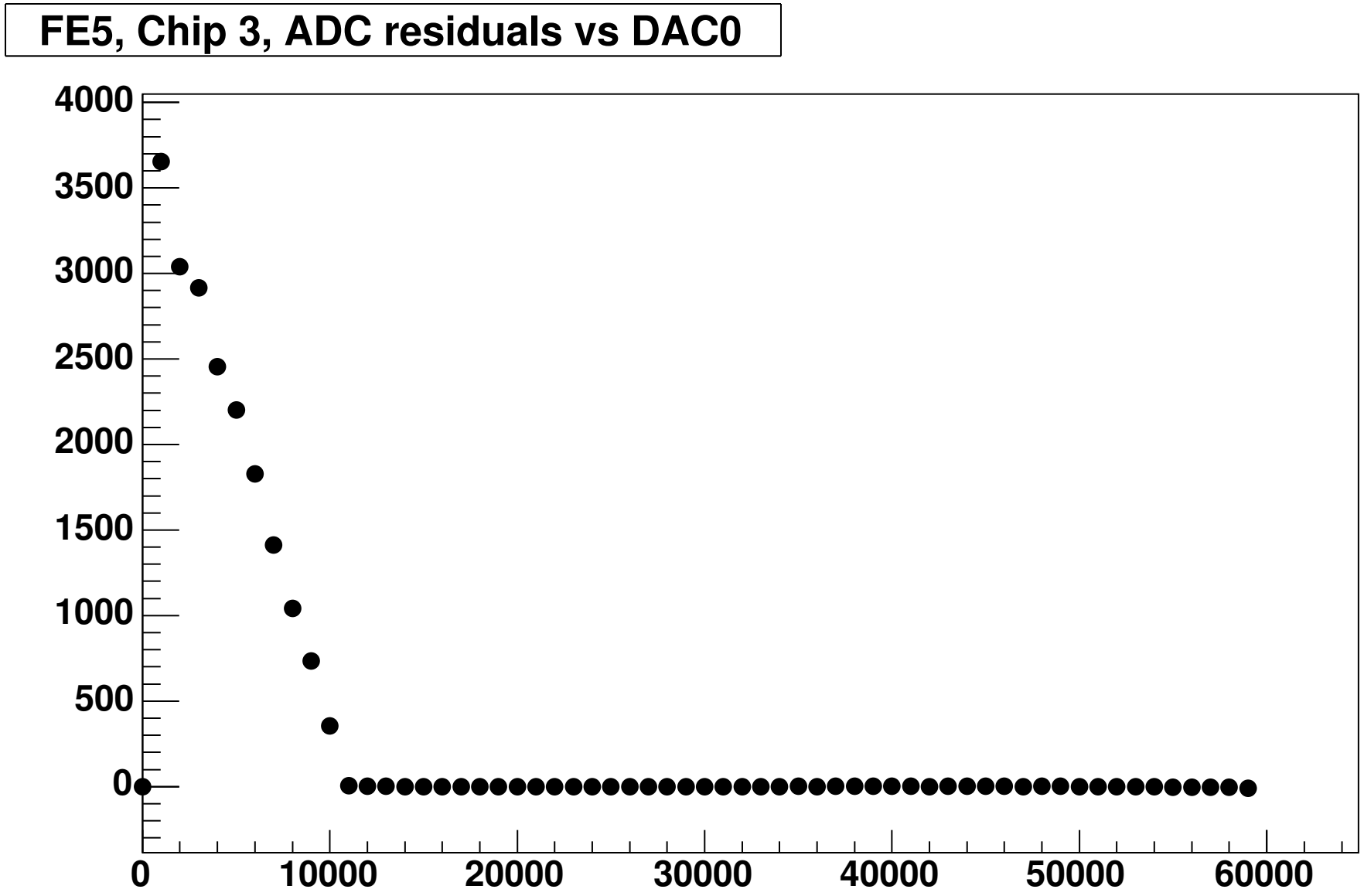
60000


FE5, Chip 3, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 3, ADC residuals vs DAC0
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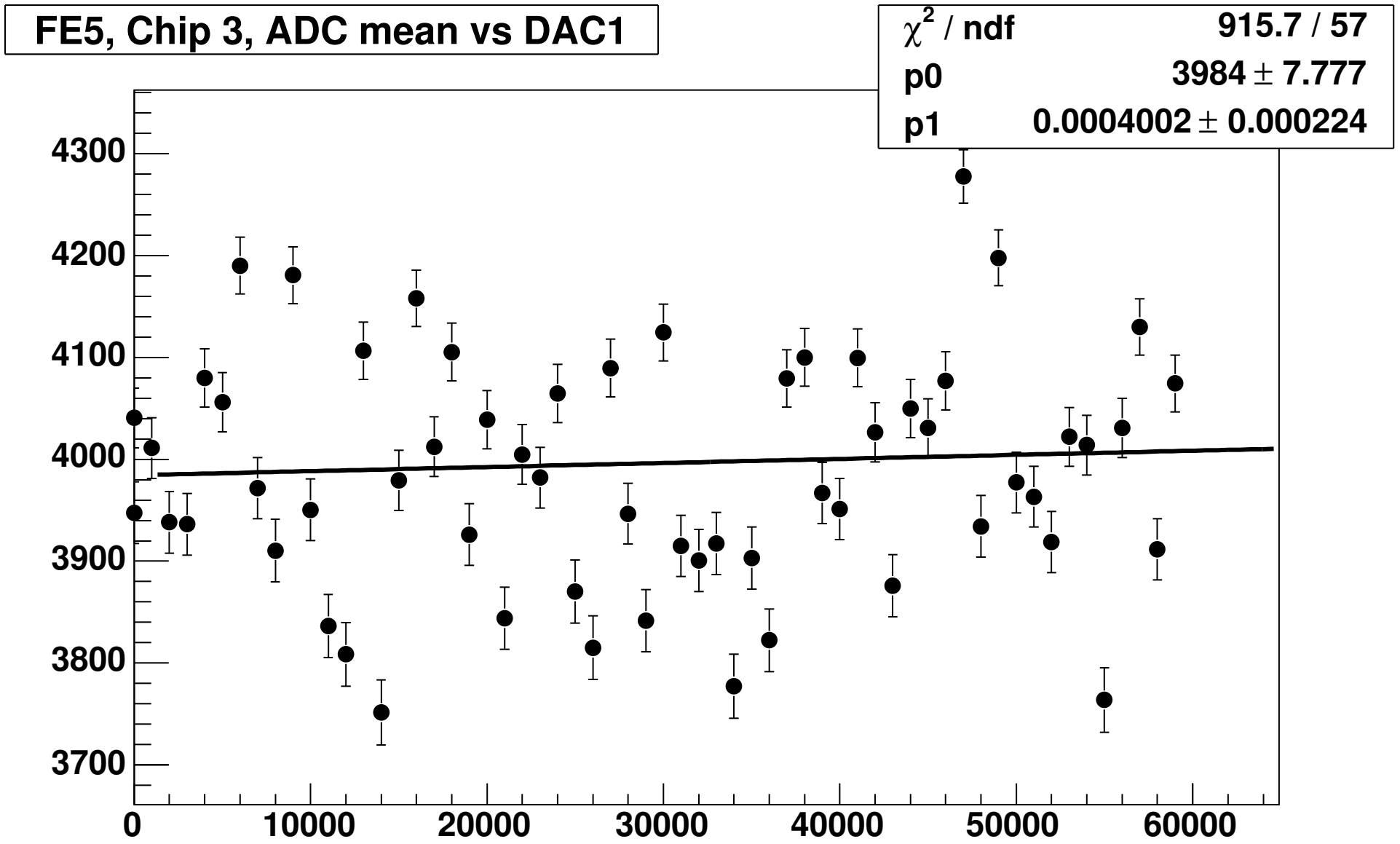
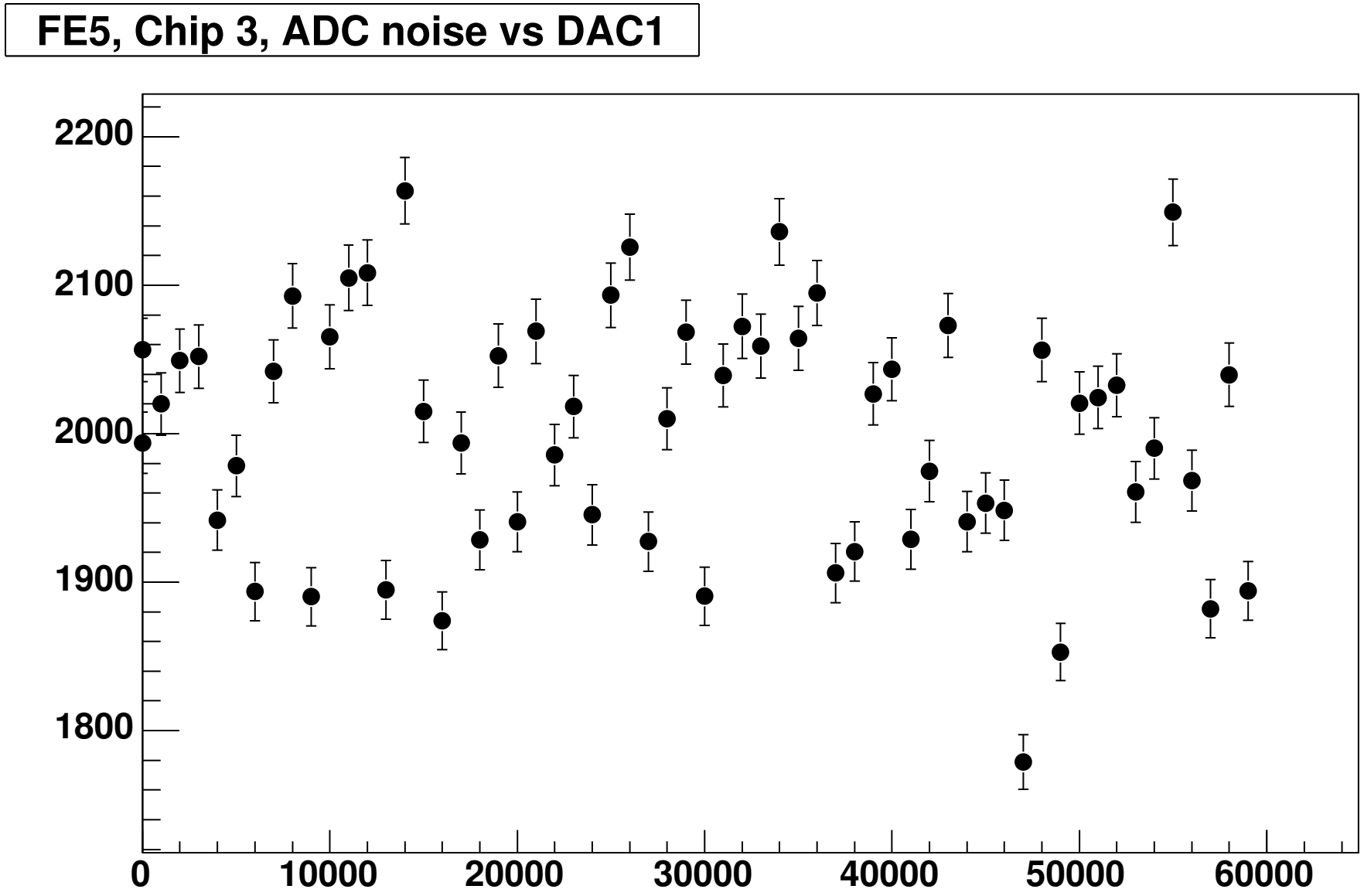
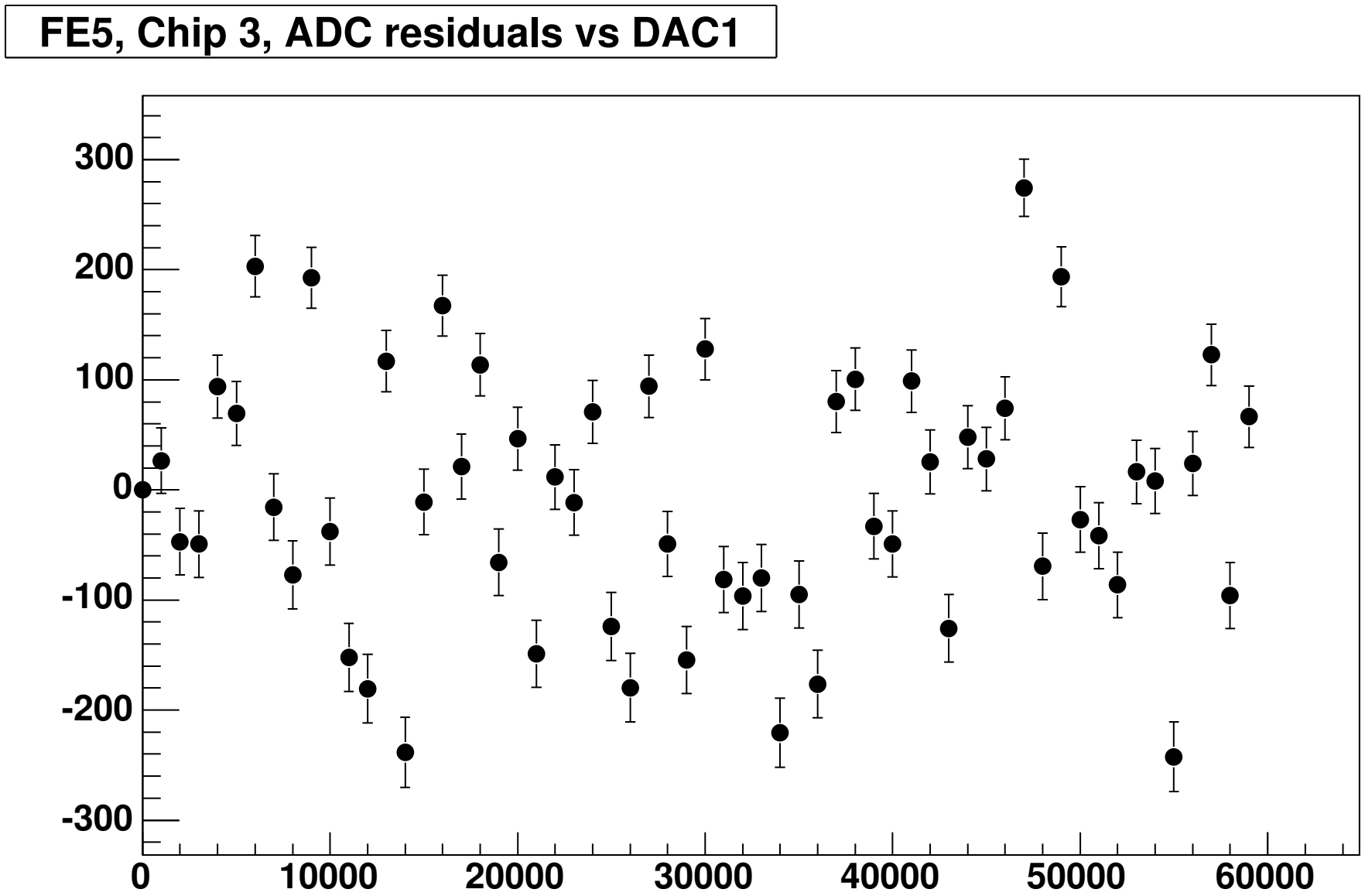
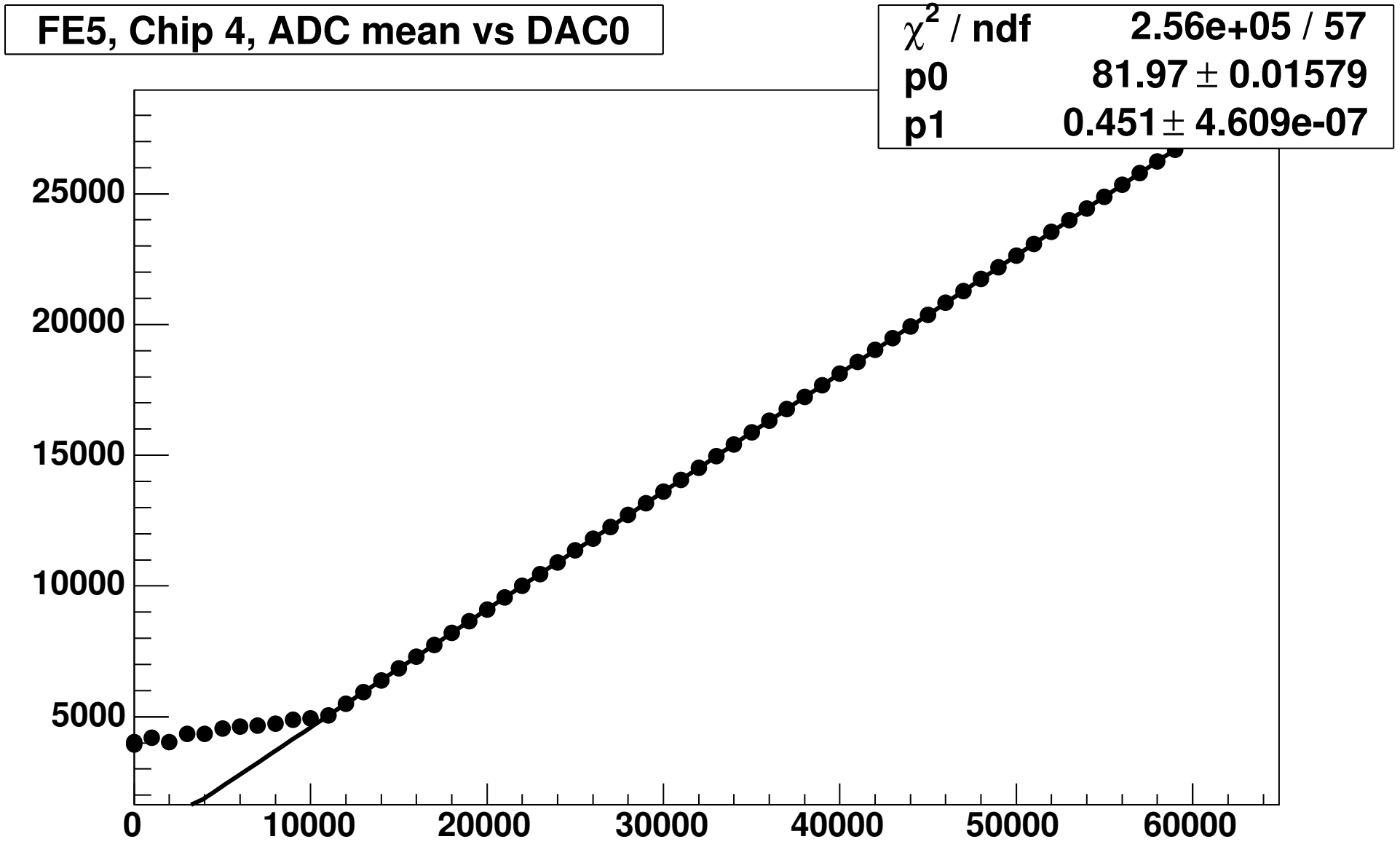
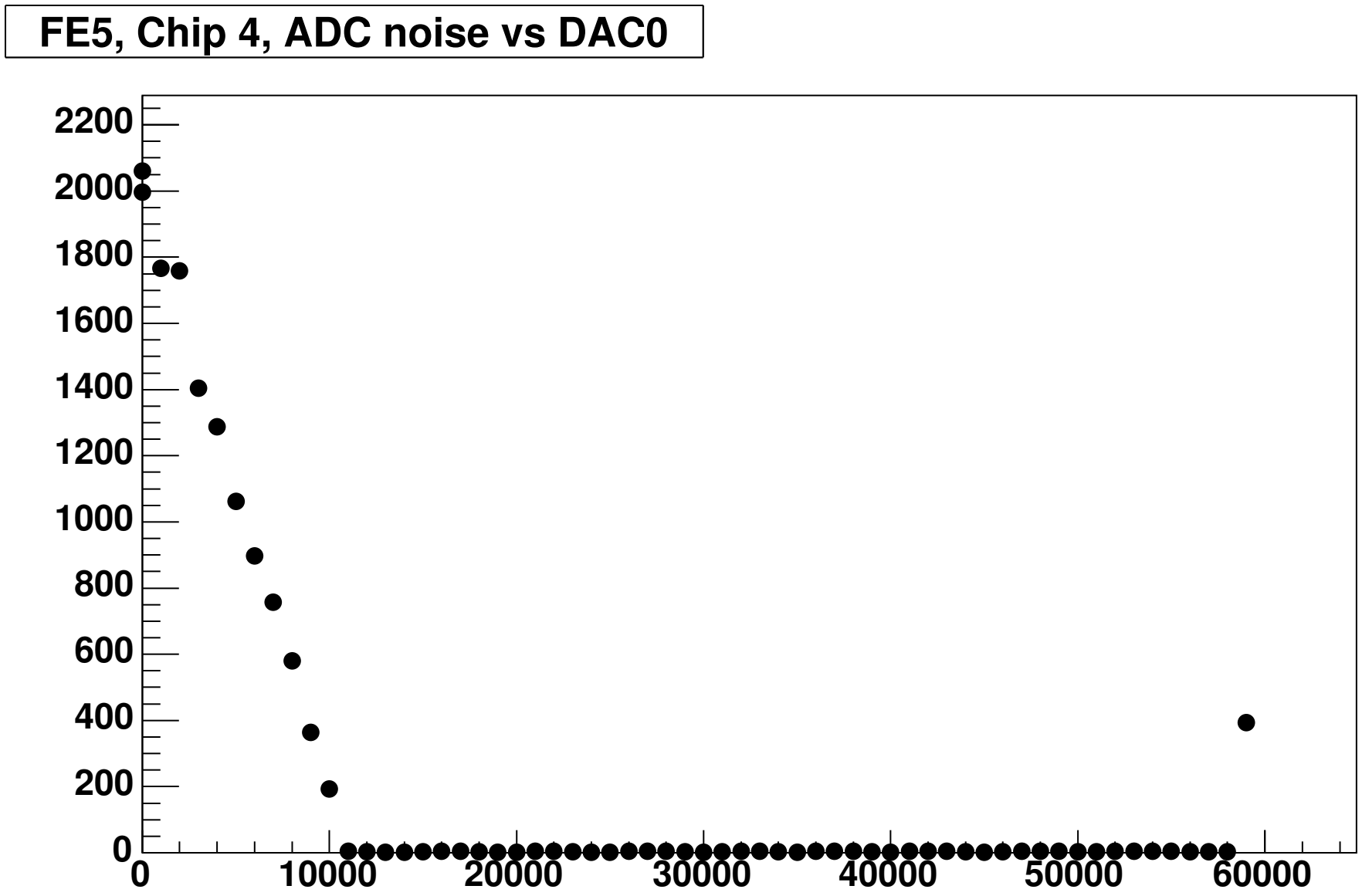
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

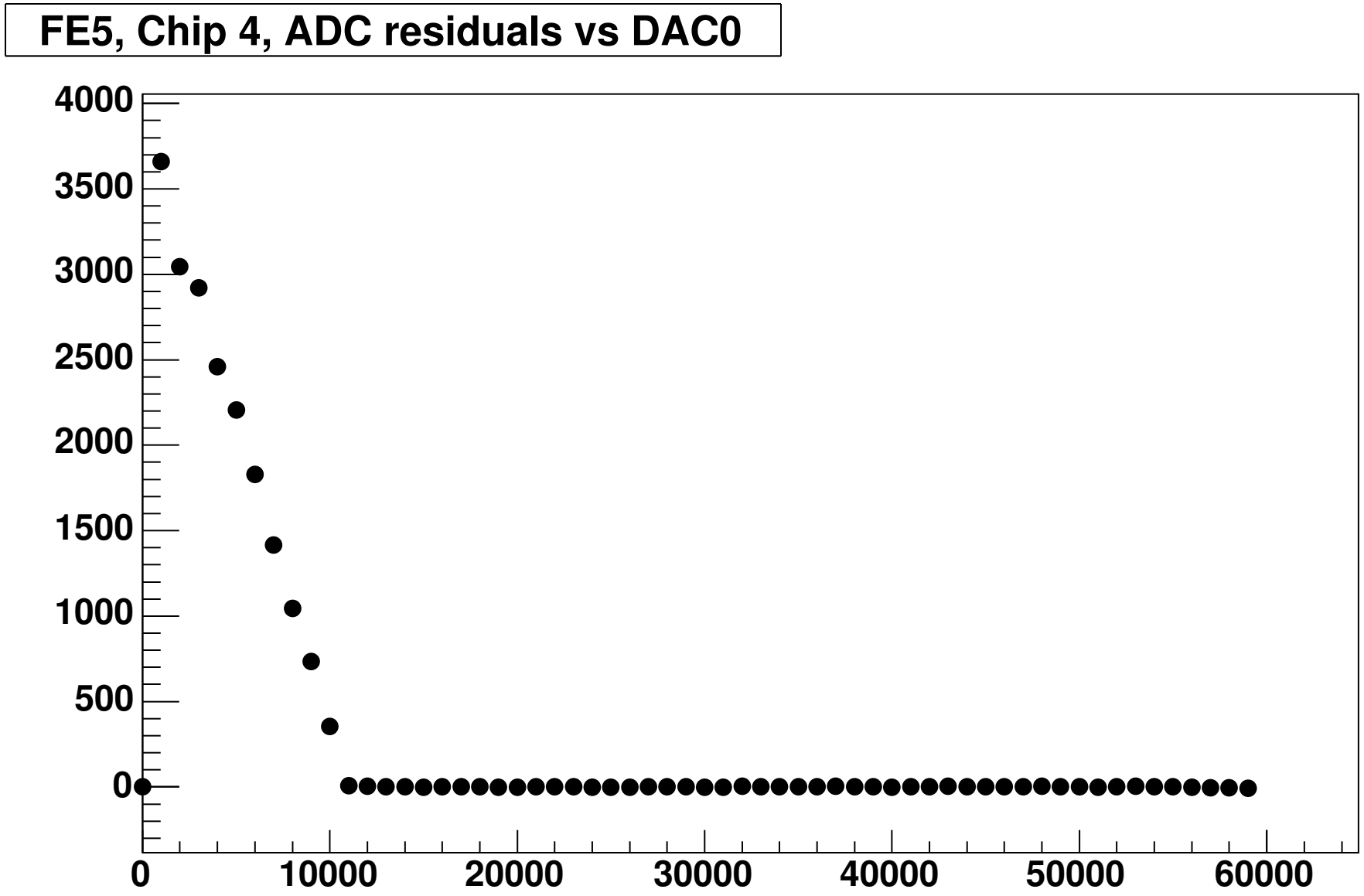

FE5, Chip 3, ADC mean vs DAC1
χ² / ndf 915.7 / 57
p0 3984 ± 7.777
p1 0.0004002 ± 0.000224
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000

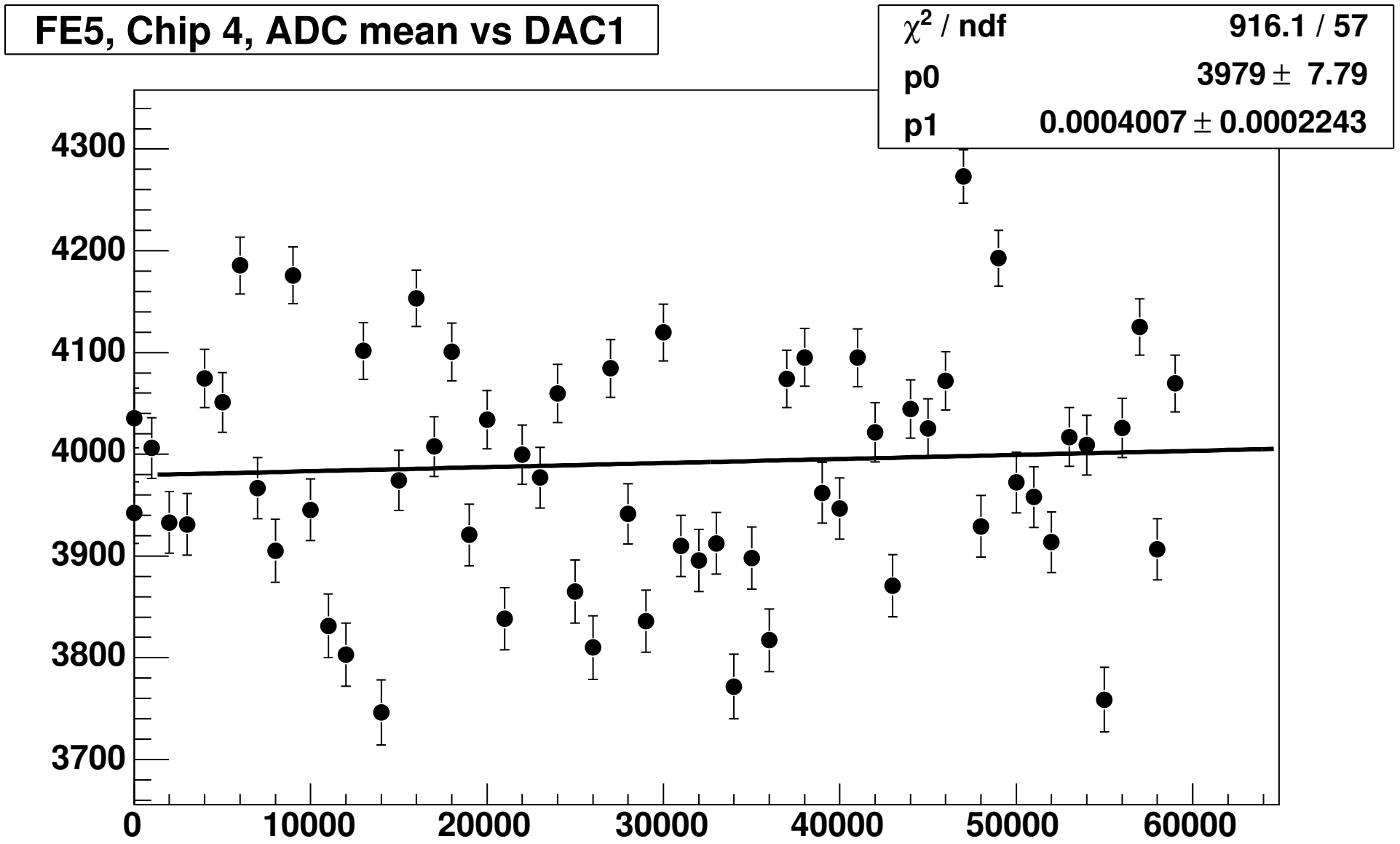

FE5, Chip 3, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000

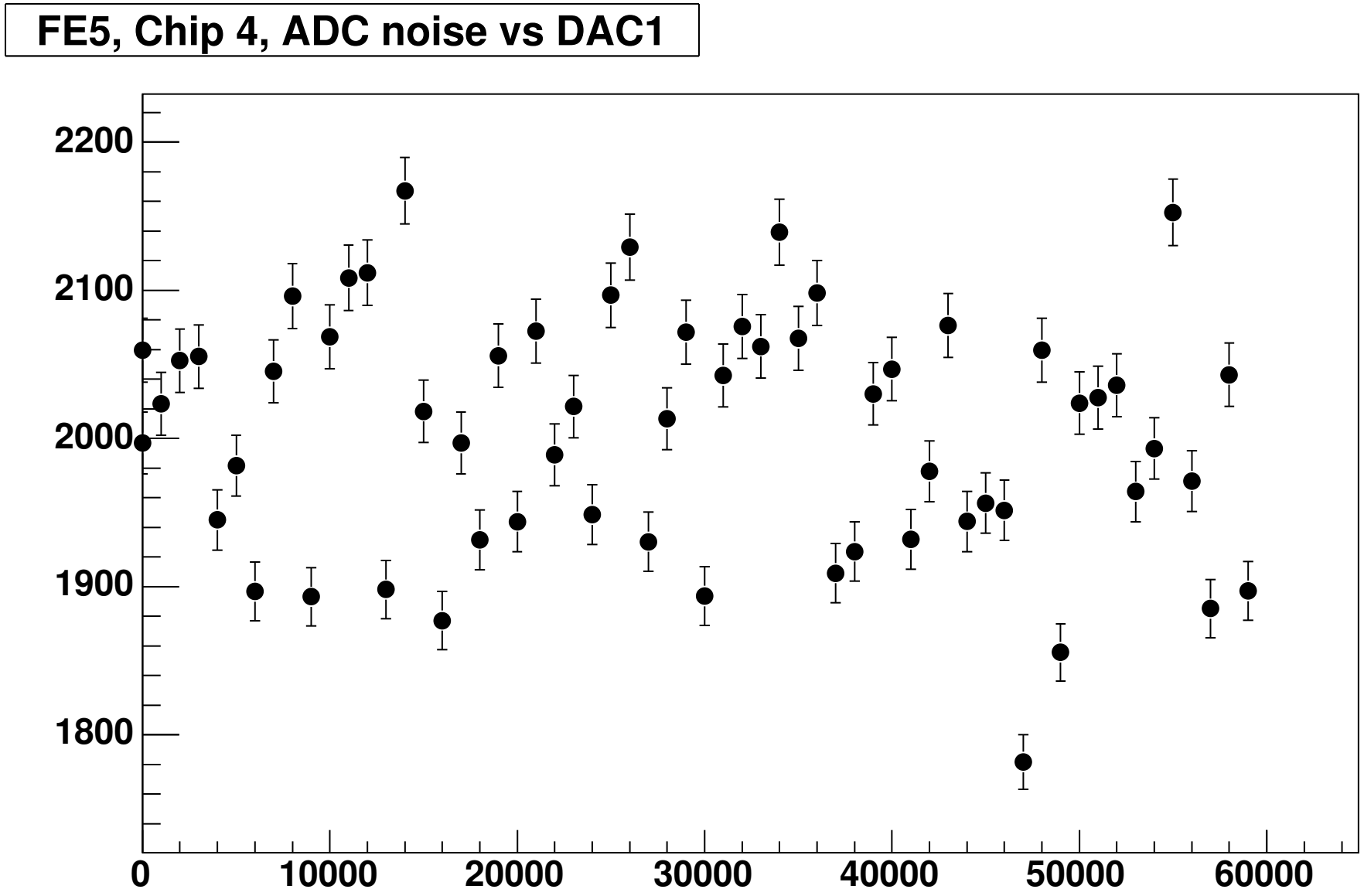

FE5, Chip 3, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

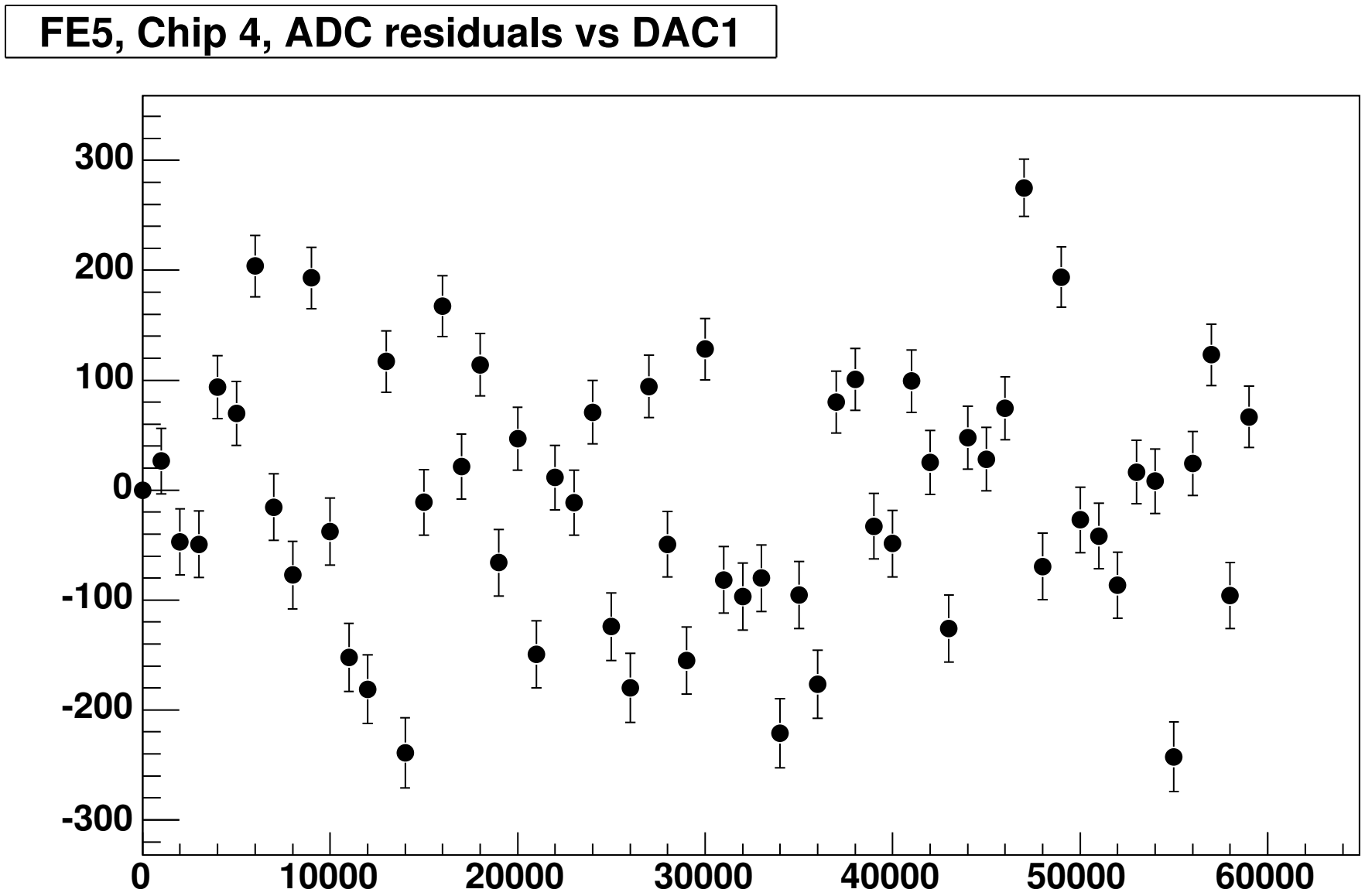

FE5, Chip 4, ADC mean vs DAC0
χ² / ndf 2.56e+05 / 57
p0 81.97 ± 0.01579
p1 0.451 ± 4.609e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE5, Chip 4, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 4, ADC residuals vs DAC0
4000
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 4, ADC mean vs DAC1
χ² / ndf 916.1 / 57
p0 3979 ± 7.79
p1 0.0004007 ± 0.0002243
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE5, Chip 4, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE5, Chip 4, ADC residuals vs DAC1
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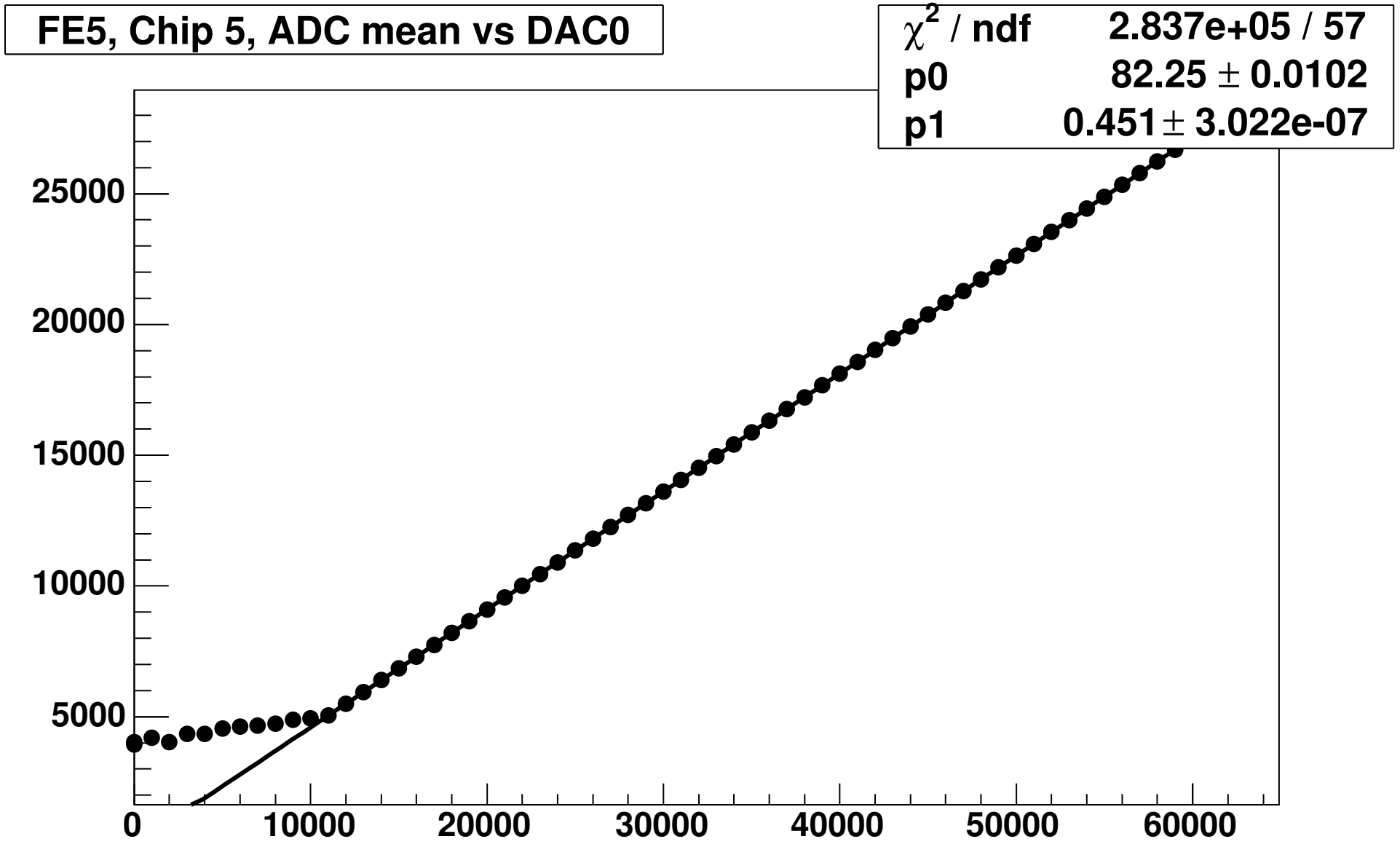
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE5, Chip 5, ADC mean vs DAC0
χ² / ndf 2.837e+05 / 57
p0 82.25 ± 0.0102
p1 0.451 ± 3.022e-07
25000
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10000
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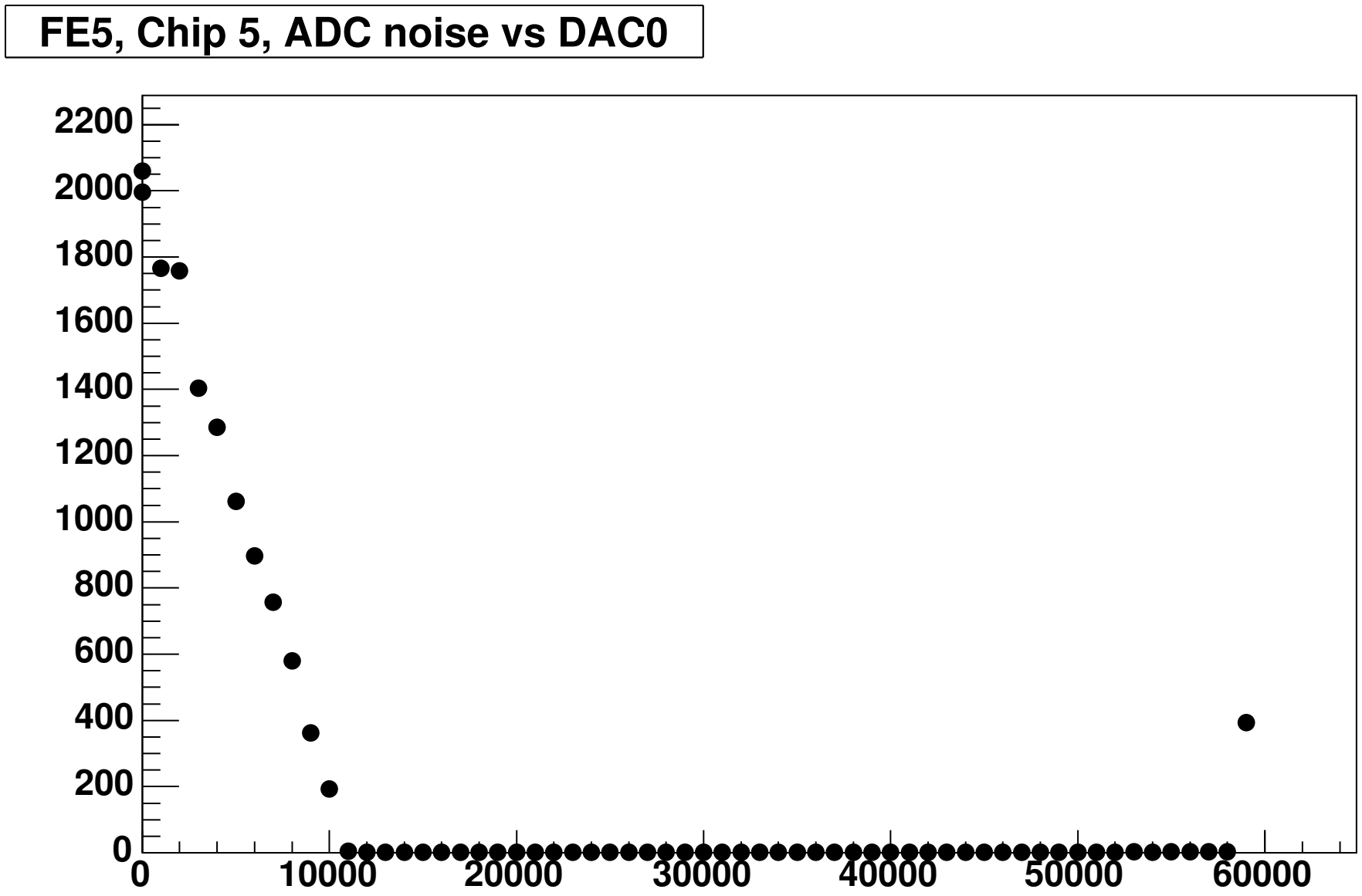
40000
50000
60000


FE5, Chip 5, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
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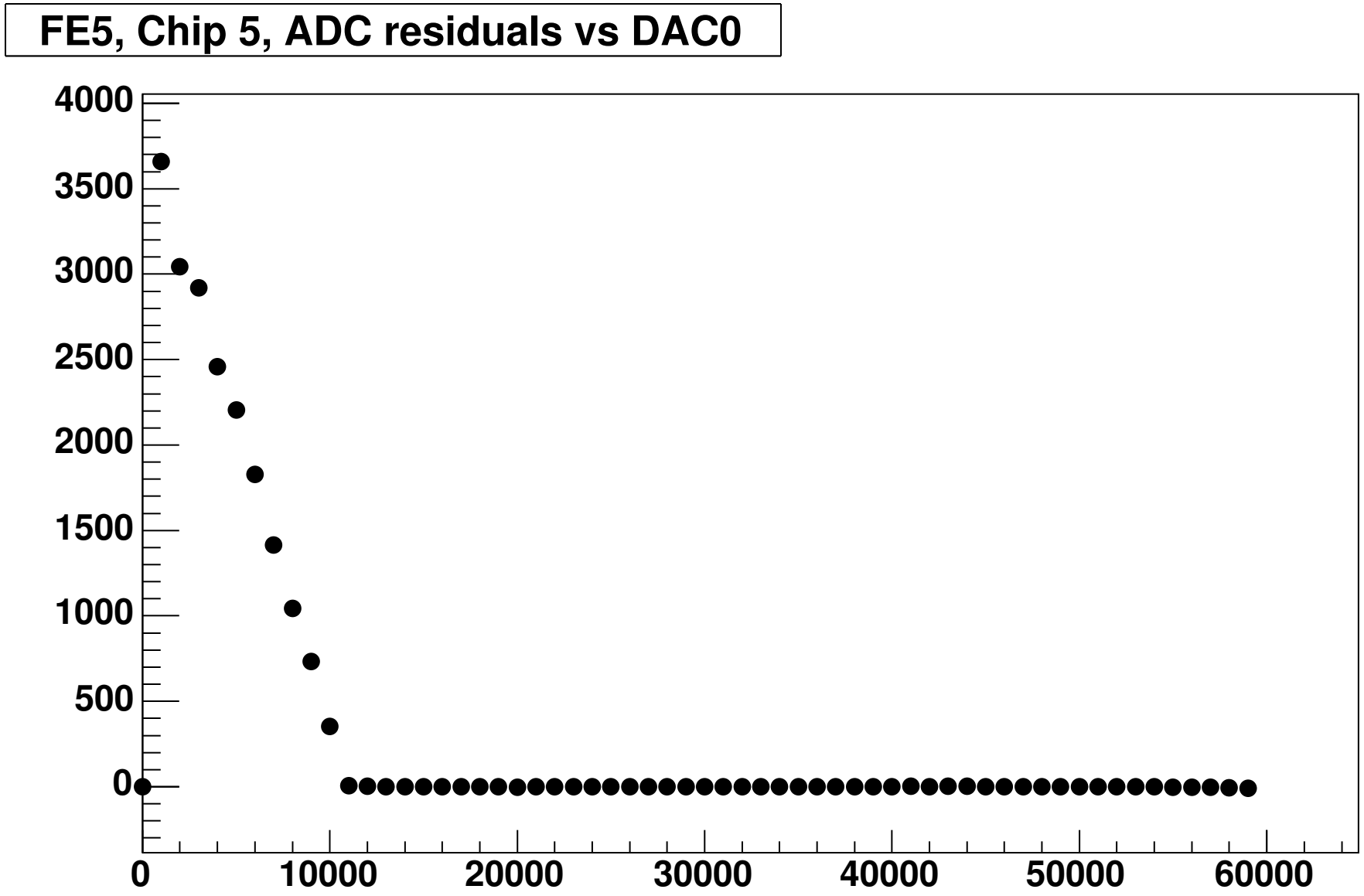
FE5, Chip 5, ADC residuals vs DAC0
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3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
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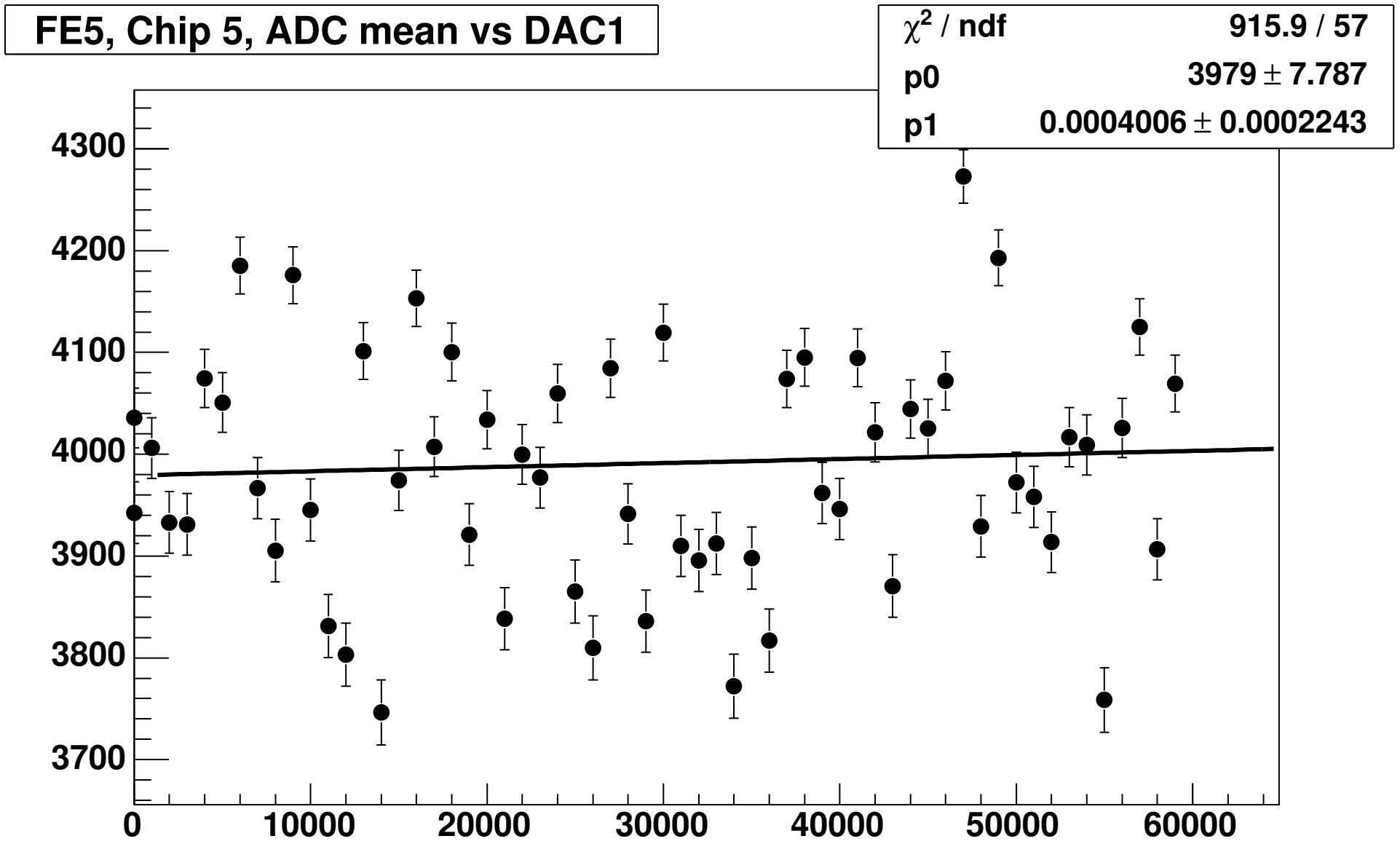
60000


FE5, Chip 5, ADC mean vs DAC1
χ² / ndf 915.9 / 57
p0 3979 ± 7.787
p1 0.0004006 ± 0.0002243
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
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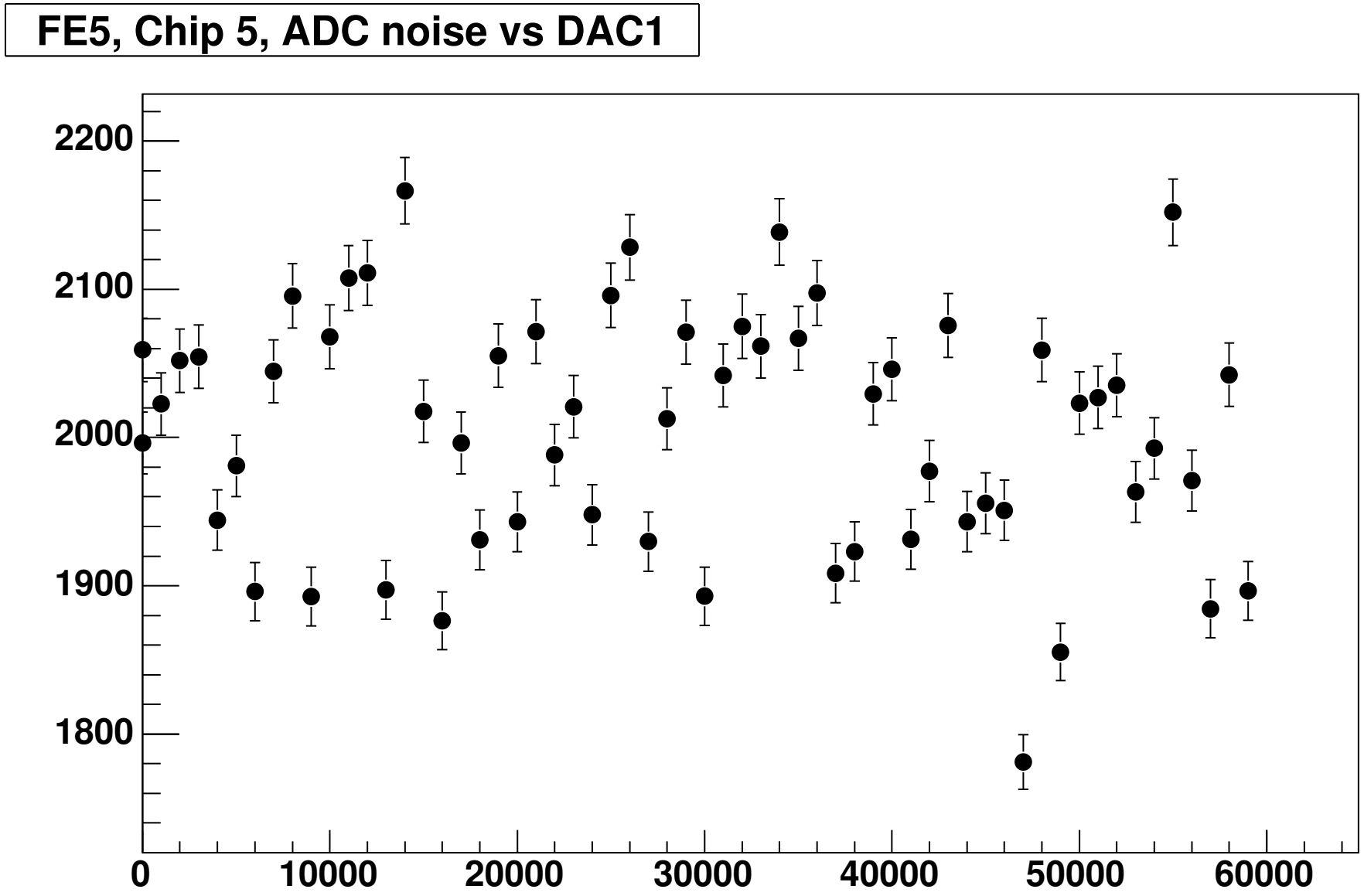
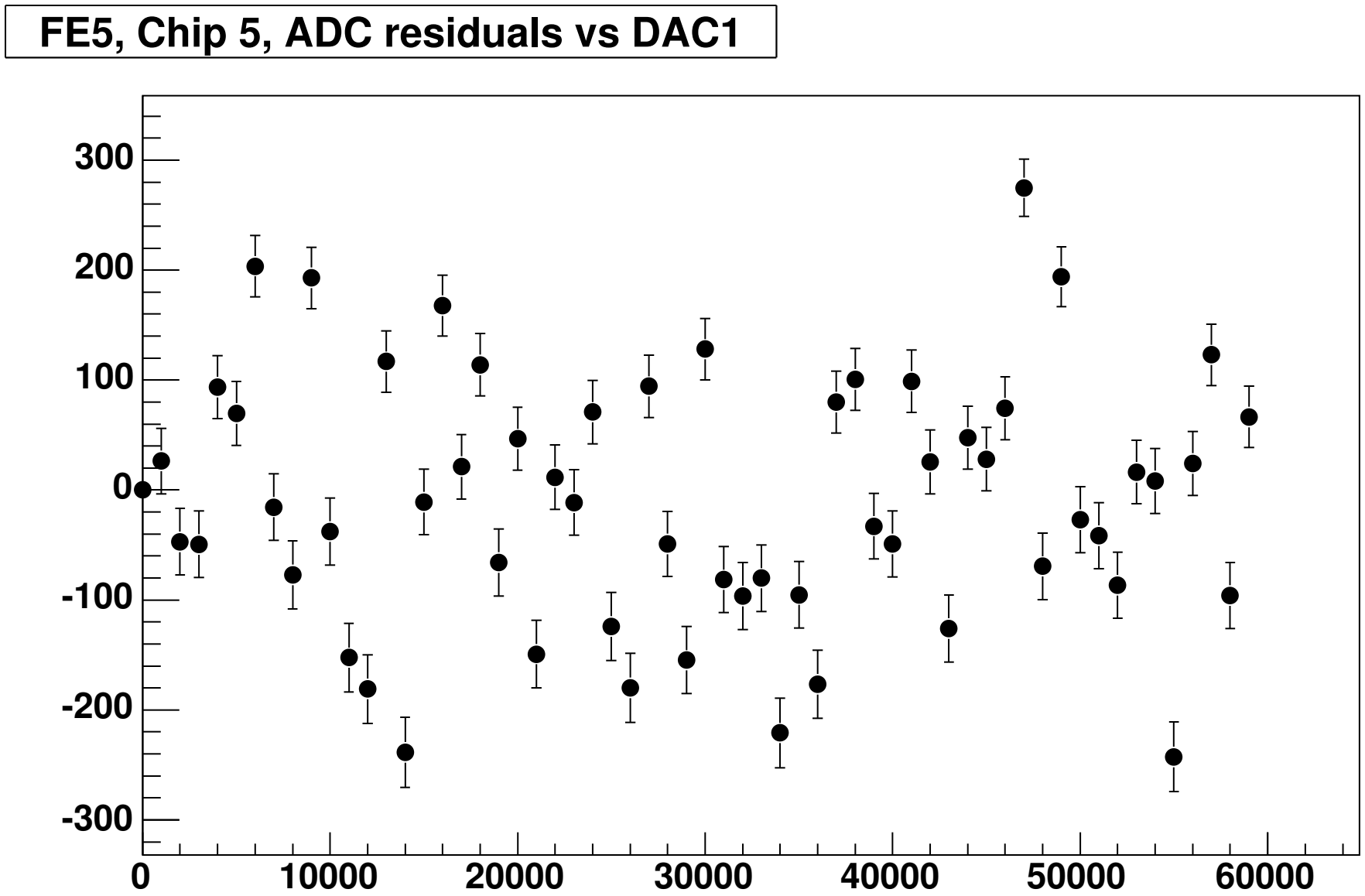
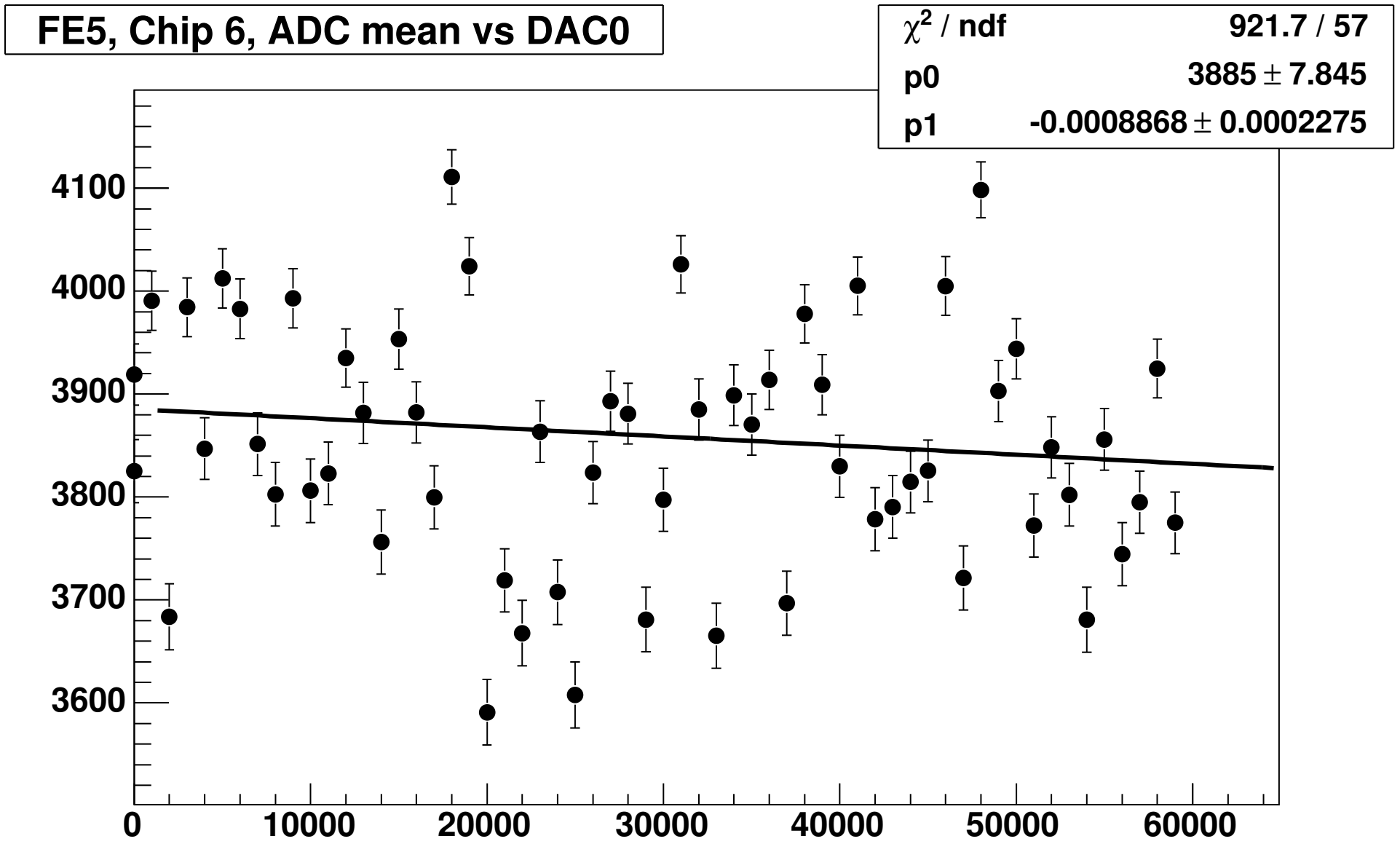
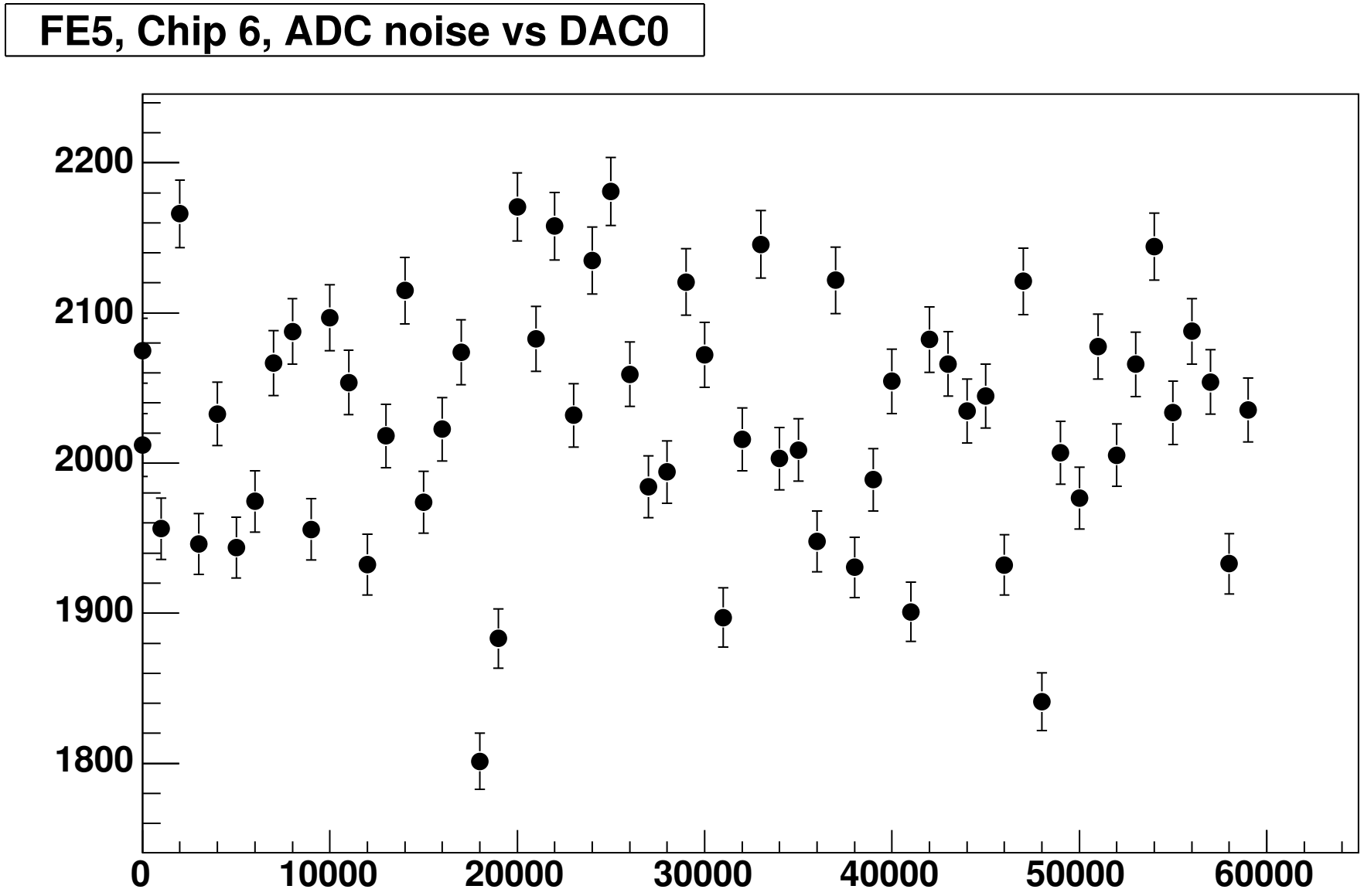
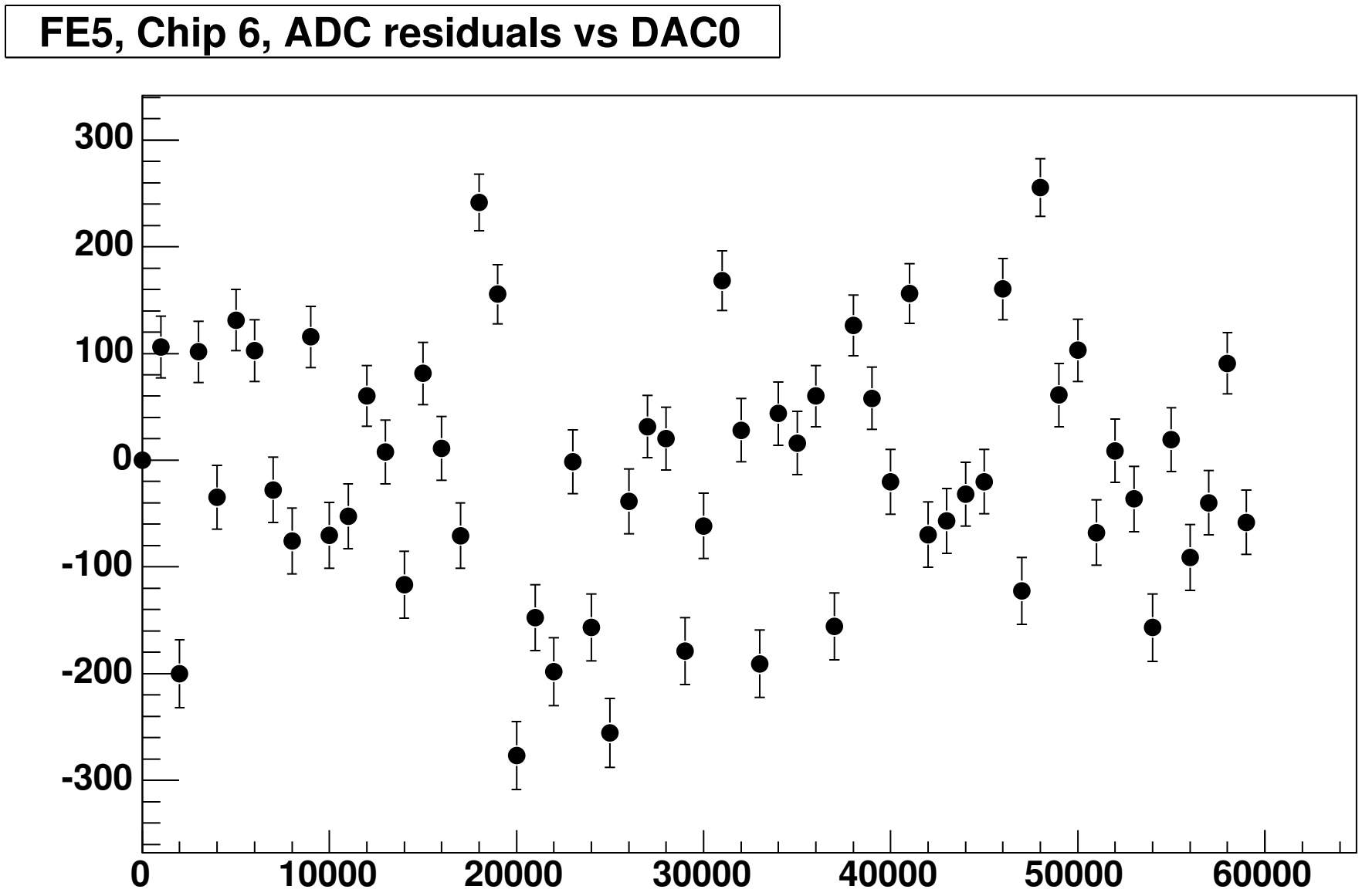
60000


FE5, Chip 5, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE5, Chip 5, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE5, Chip 6, ADC mean vs DAC0
χ² / ndf 921.7 / 57
p0 3885 ± 7.845
p1 -0.0008868 ± 0.0002275
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE5, Chip 6, ADC noise vs DAC0
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE5, Chip 6, ADC residuals vs DAC0
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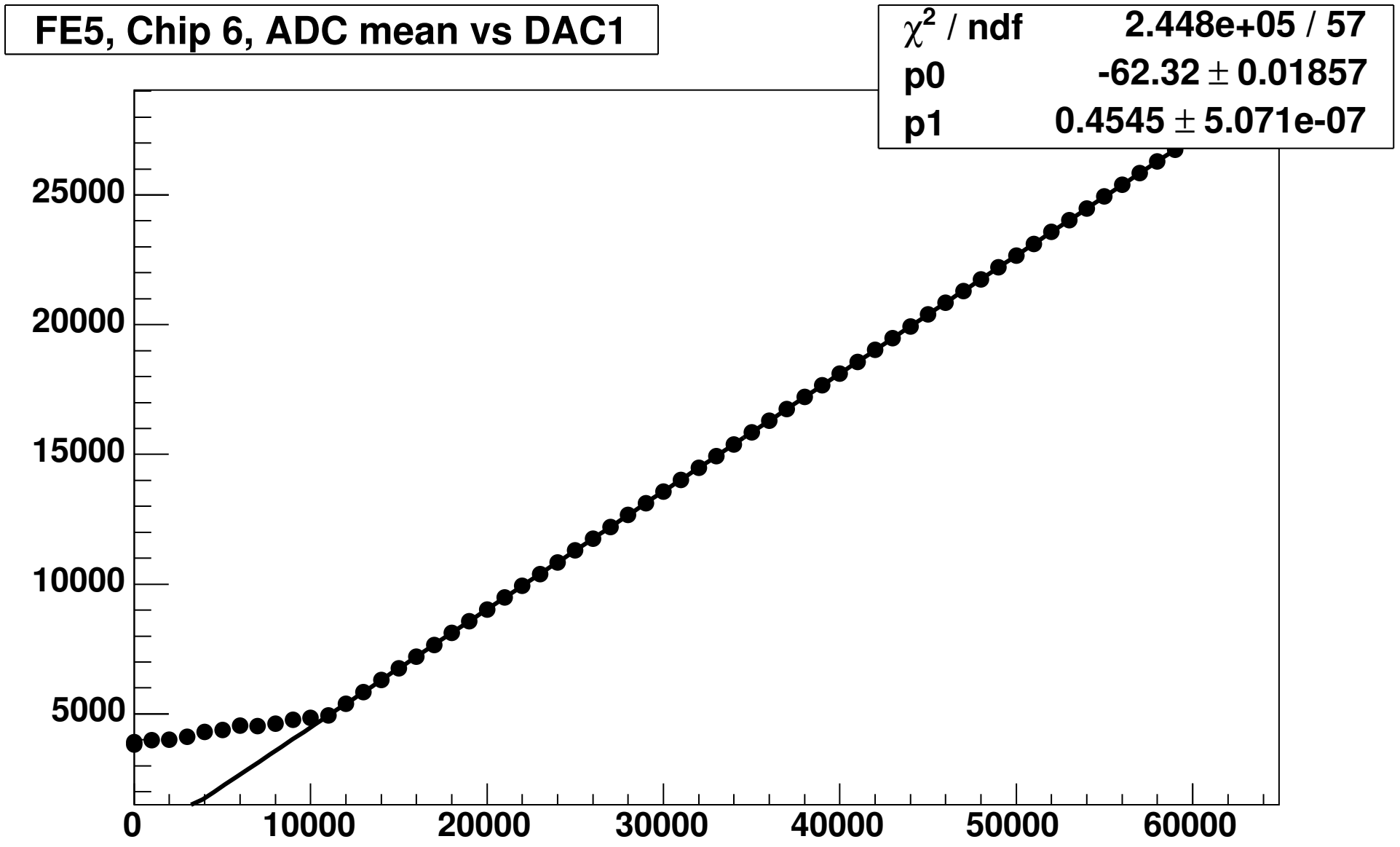
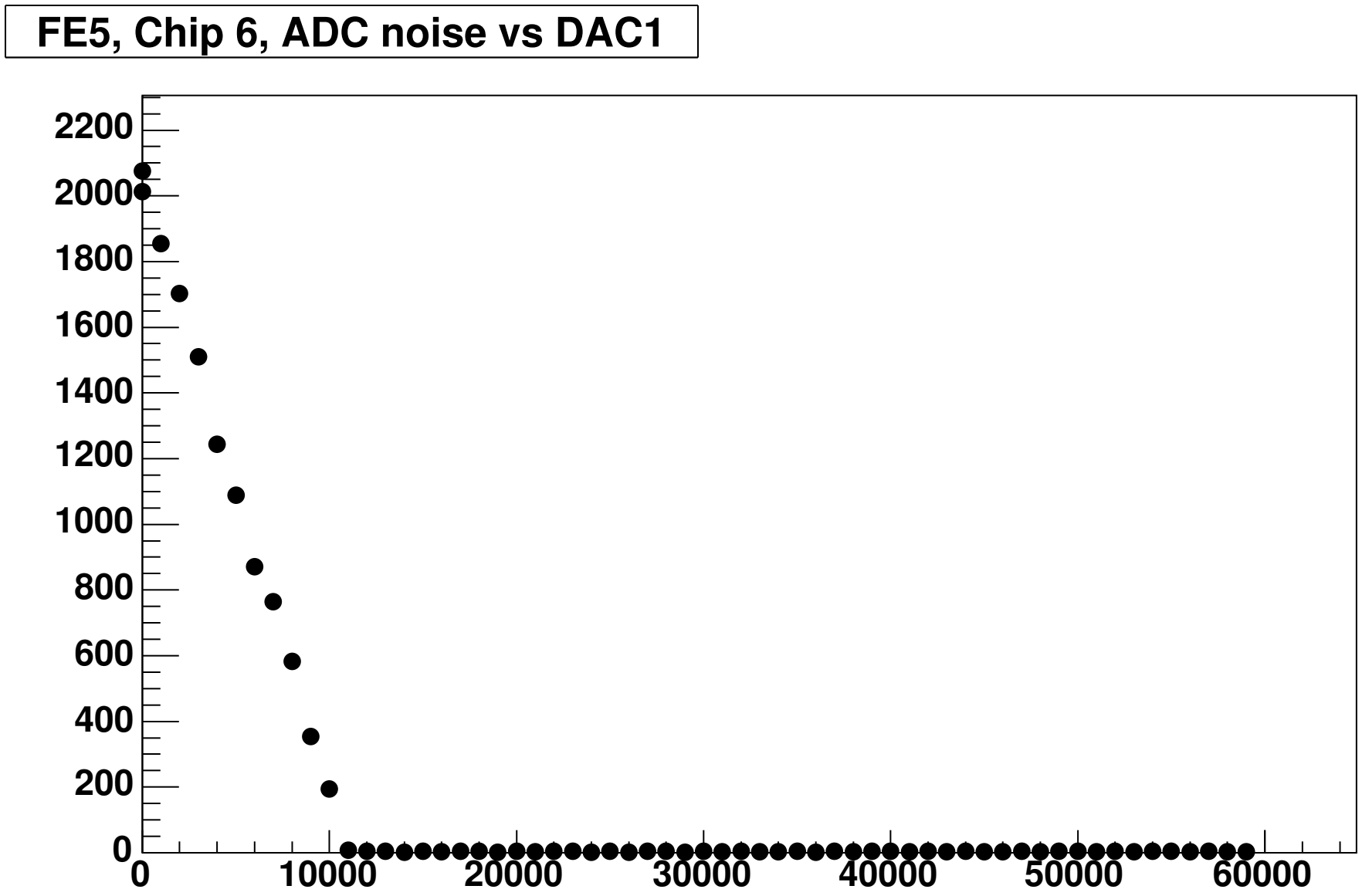
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE5, Chip 6, ADC mean vs DAC1
χ² / ndf 2.448e+05 / 57
p0 -62.32 ± 0.01857
p1 0.4545 ± 5.071e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE5, Chip 6, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
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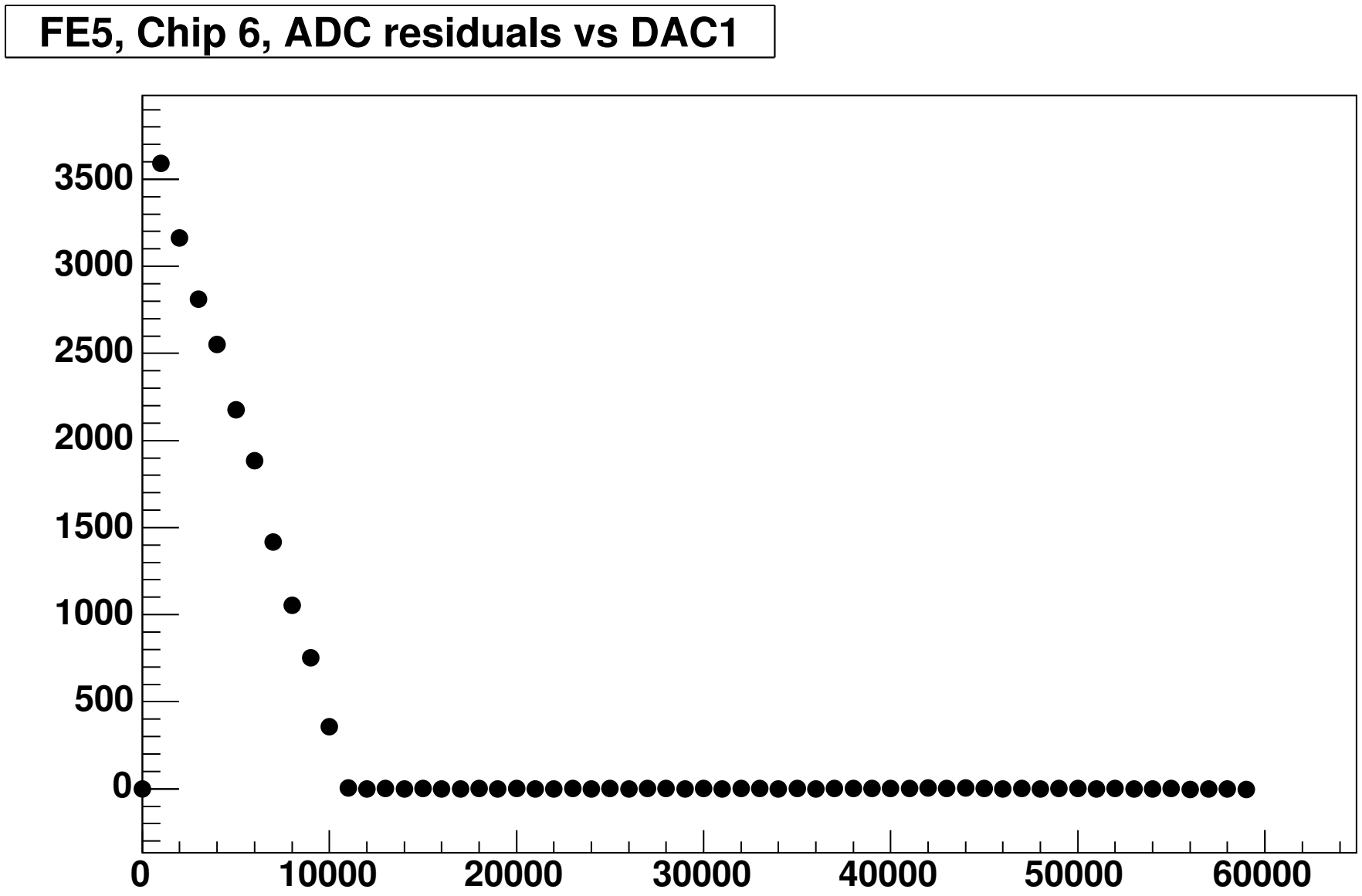
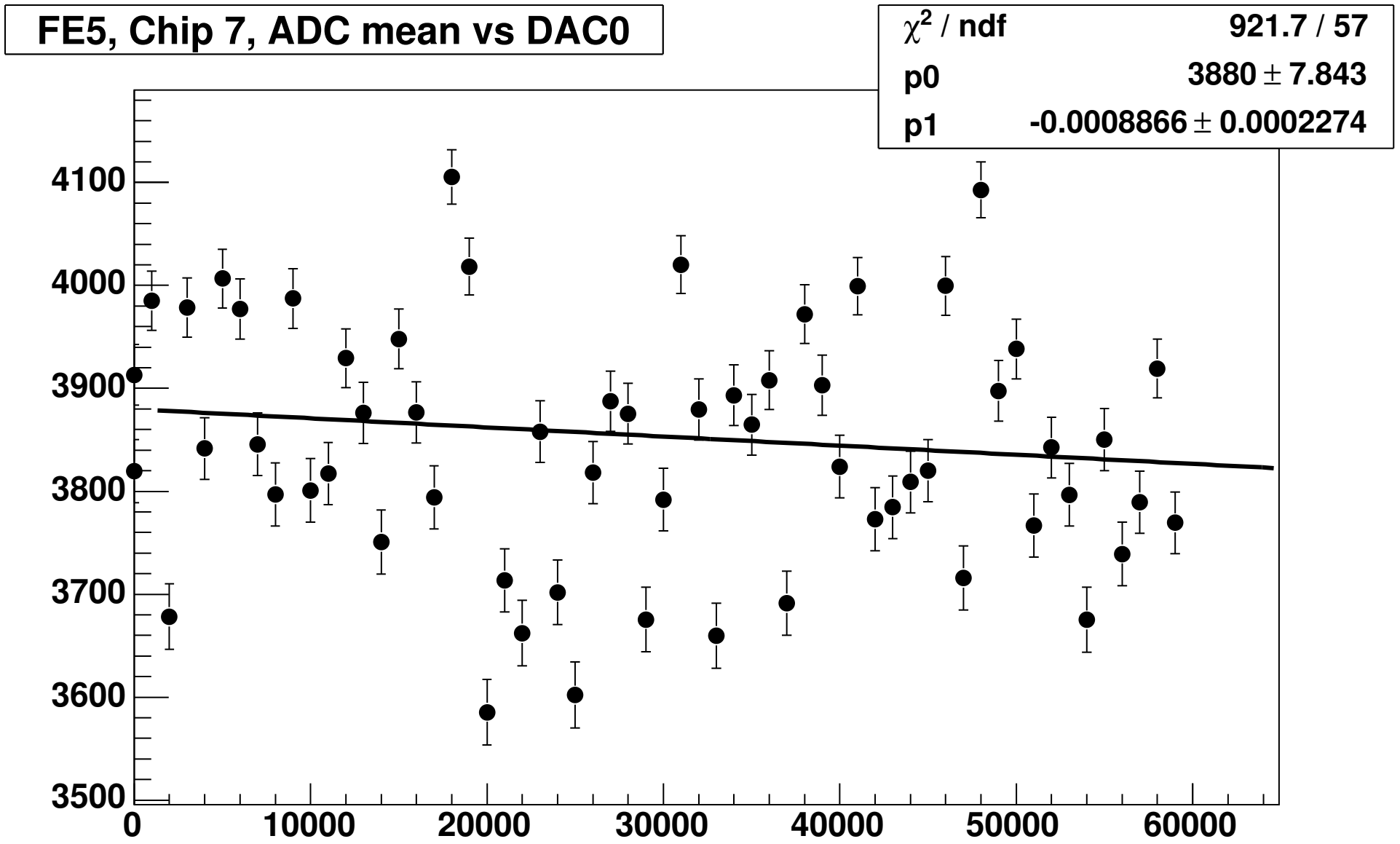
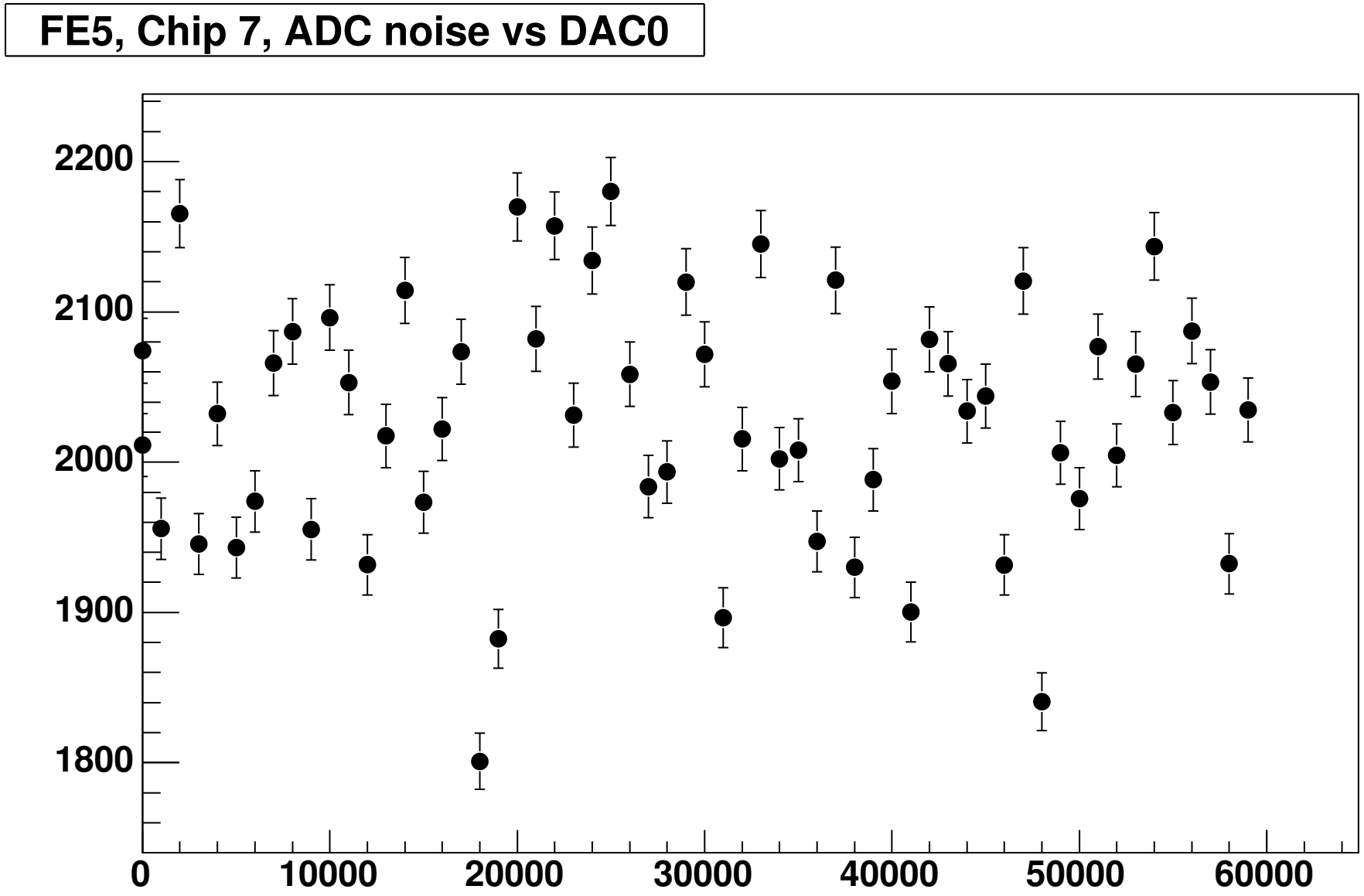
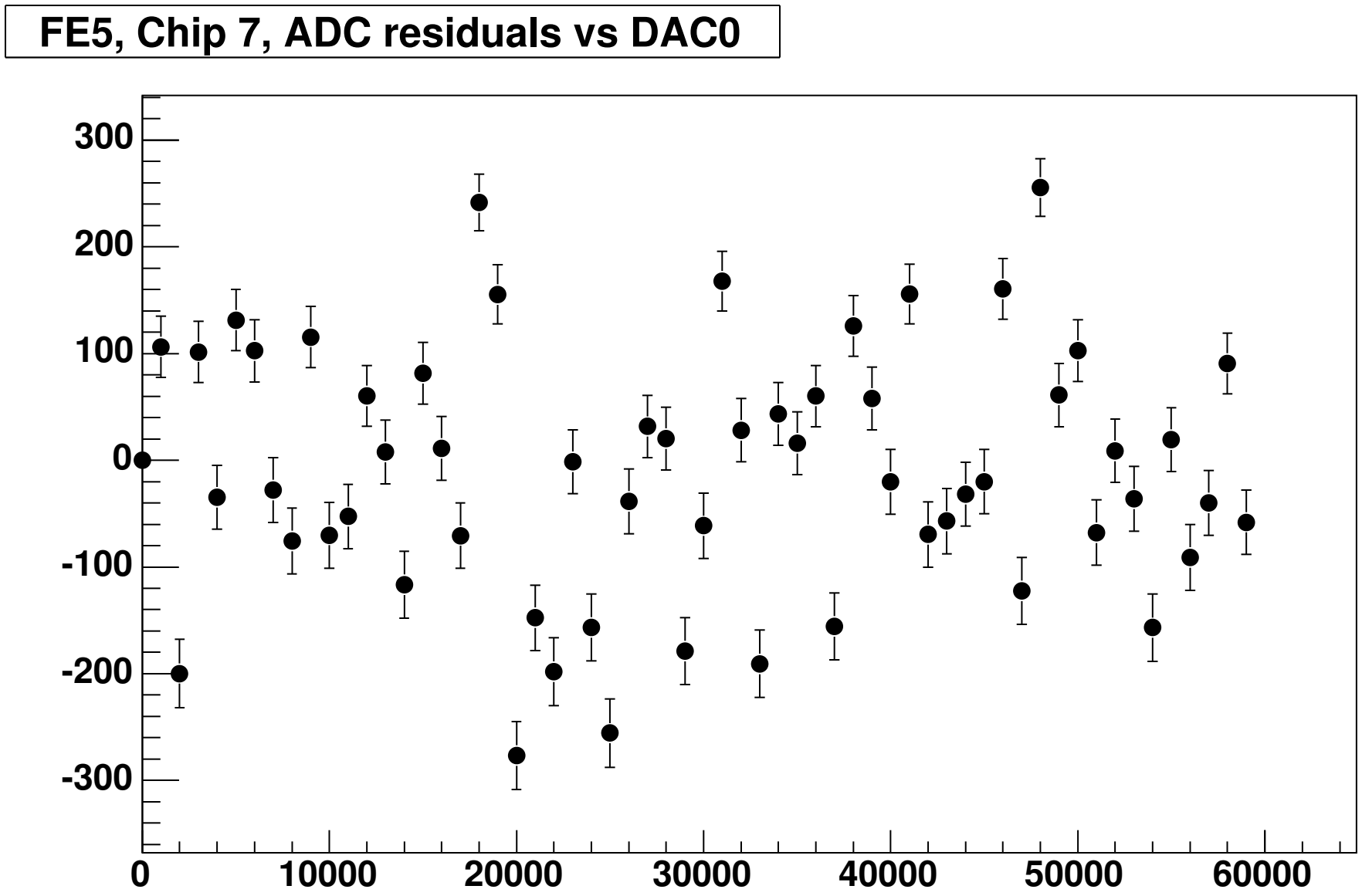
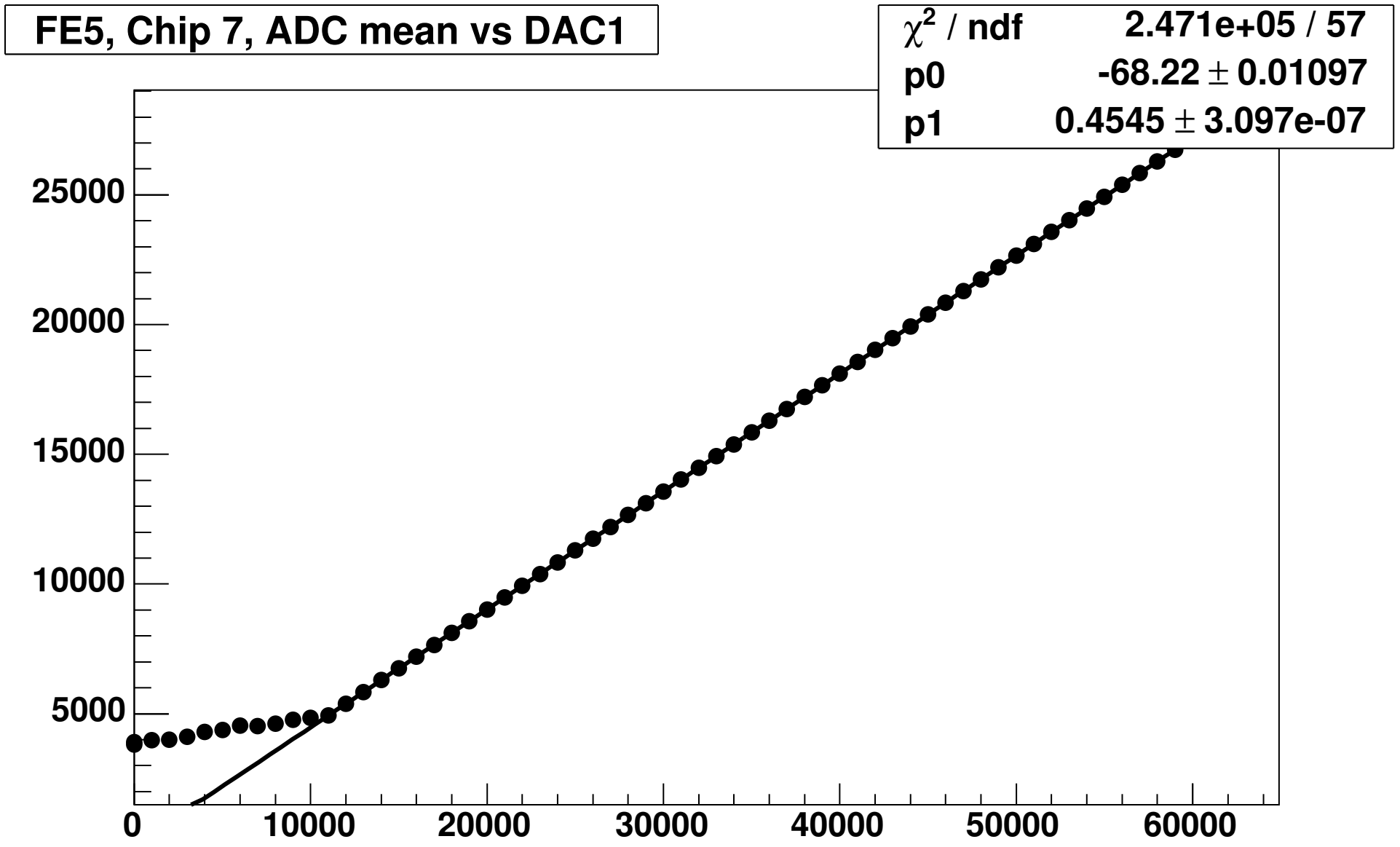
60000

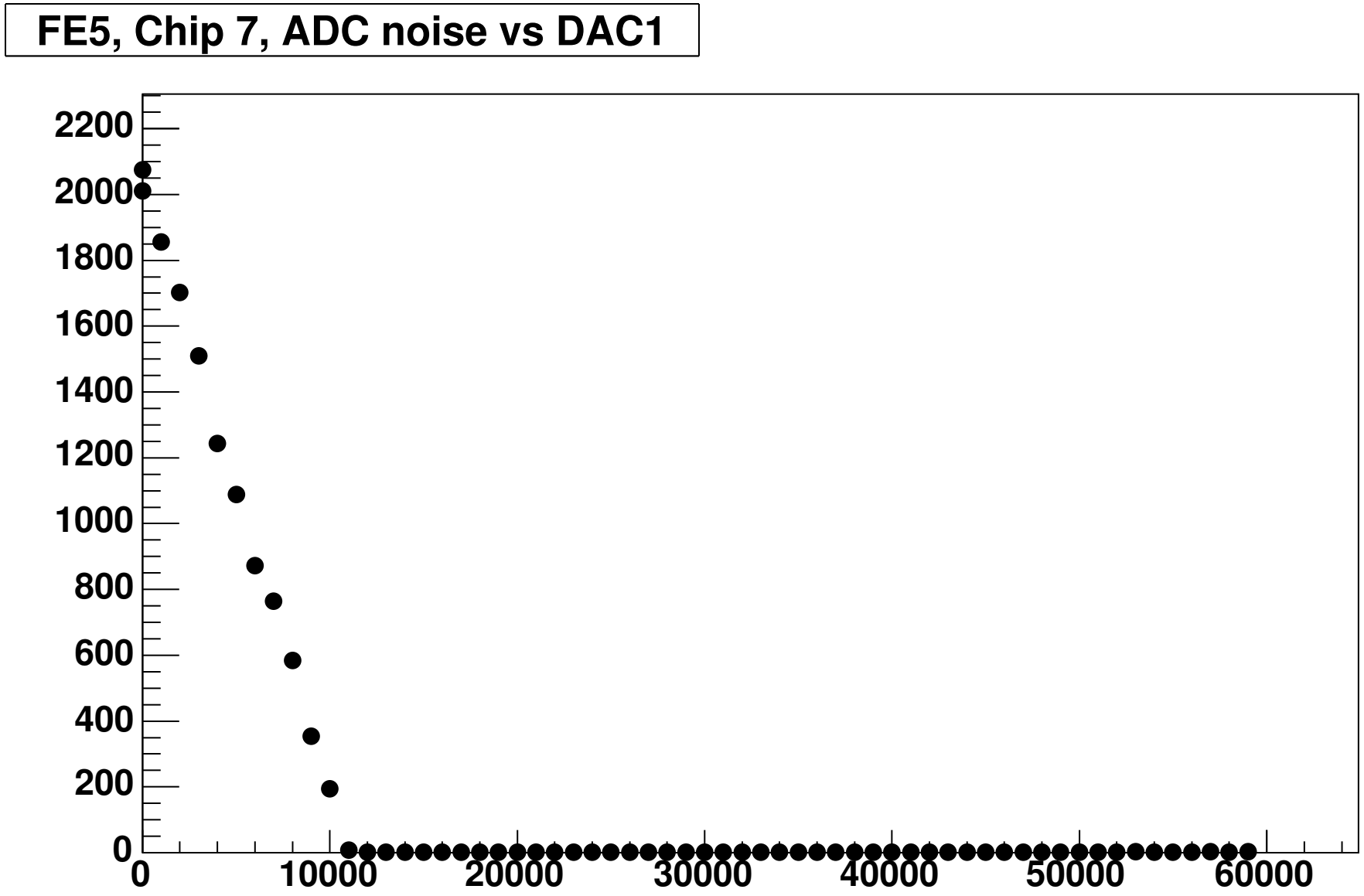

FE5, Chip 6, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 7, ADC mean vs DAC0
χ² / ndf 921.7 / 57
p0 3880 ± 7.843
p1 -0.0008866 ± 0.0002274
4100
4000
3900
3800
3700
3600
3500
0
10000
20000
30000
40000
50000
60000


FE5, Chip 7, ADC noise vs DAC0
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE5, Chip 7, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE5, Chip 7, ADC mean vs DAC1
χ² / ndf 2.471e+05 / 57
p0 -68.22 ± 0.01097
p1 0.4545 ± 3.097e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE5, Chip 7, ADC noise vs DAC1
2200
2000
1800
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1200
1000
800
600
400
200
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10000
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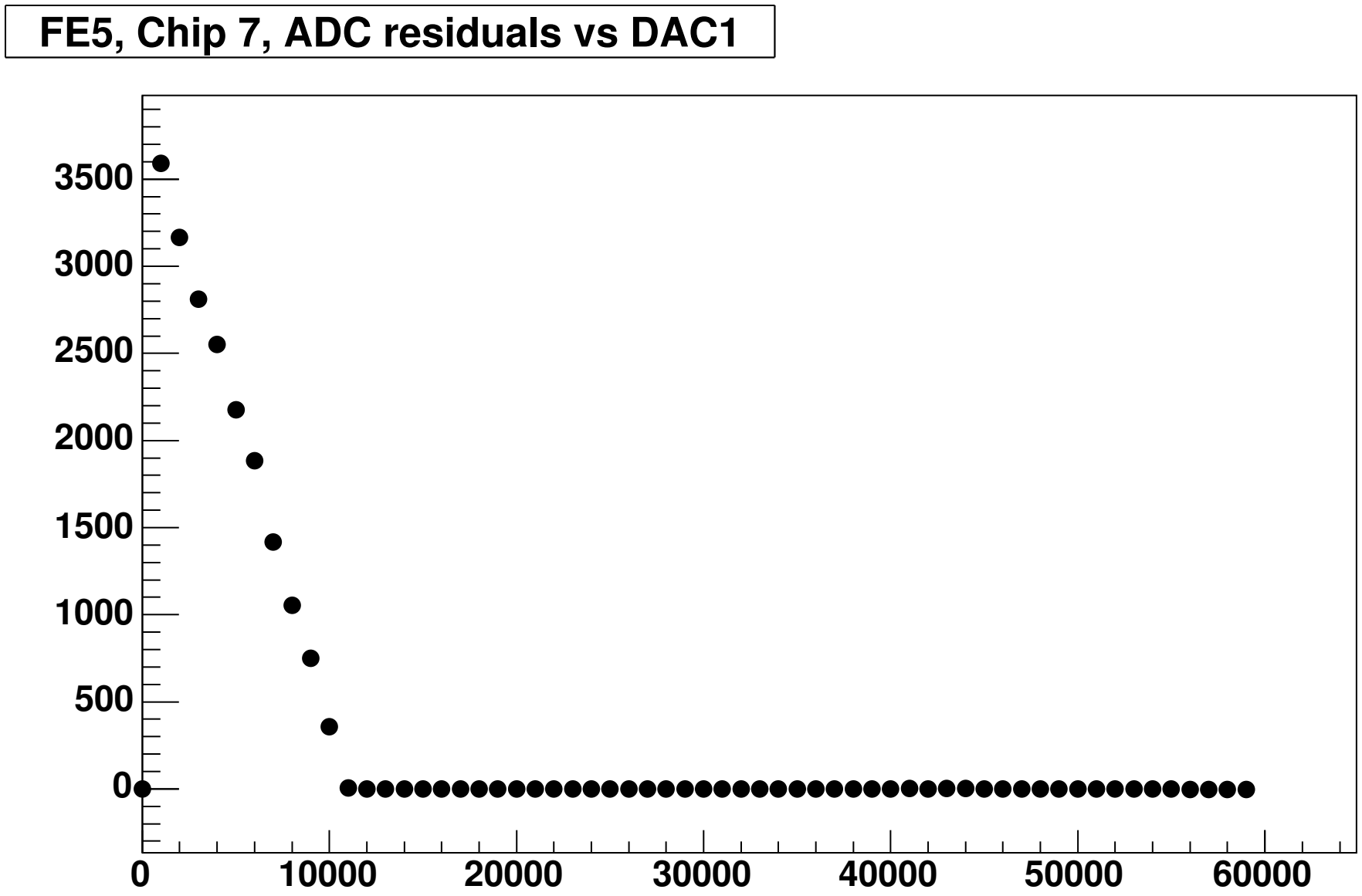
FE5, Chip 7, ADC residuals vs DAC1
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1500
1000
500
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10000
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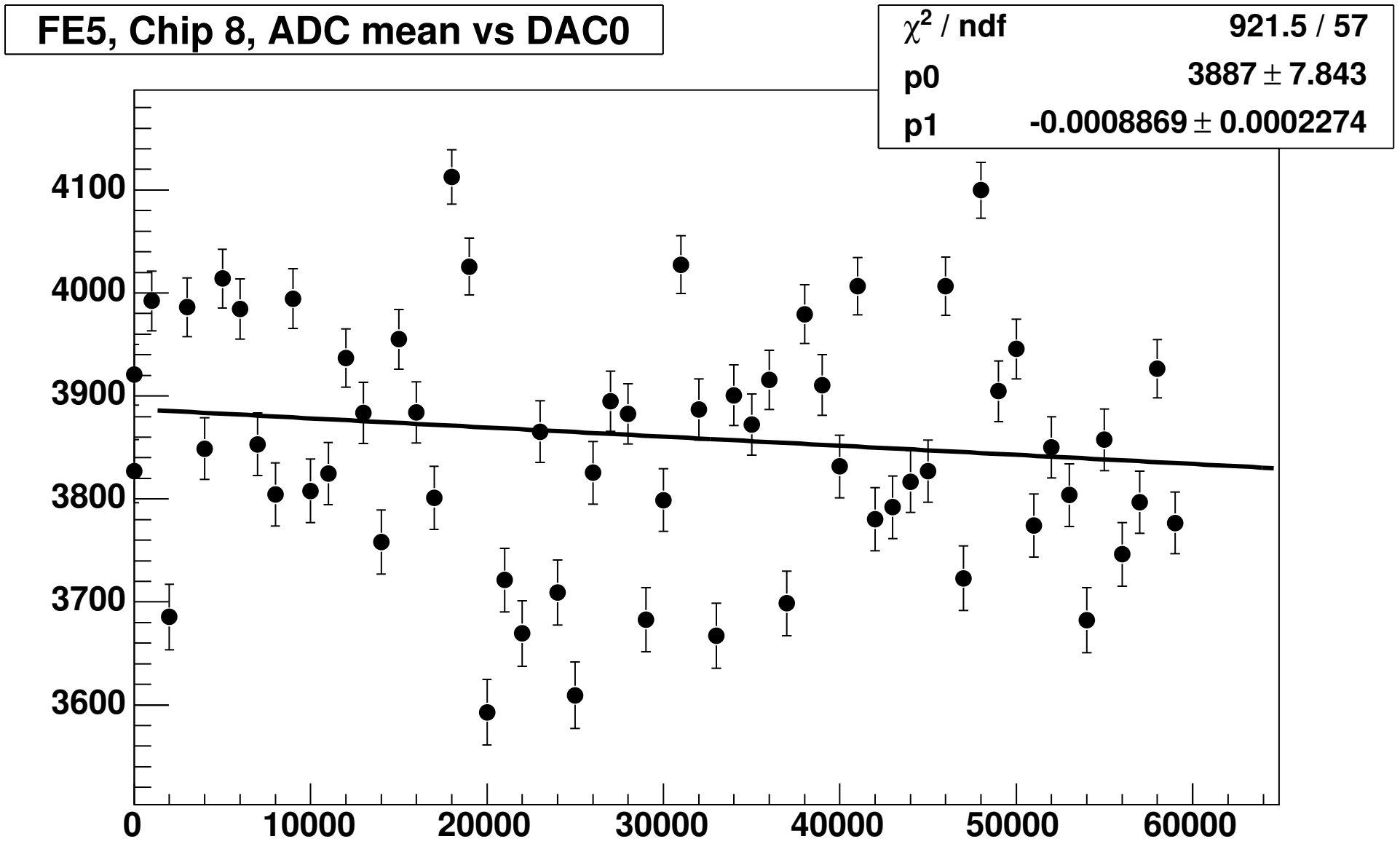
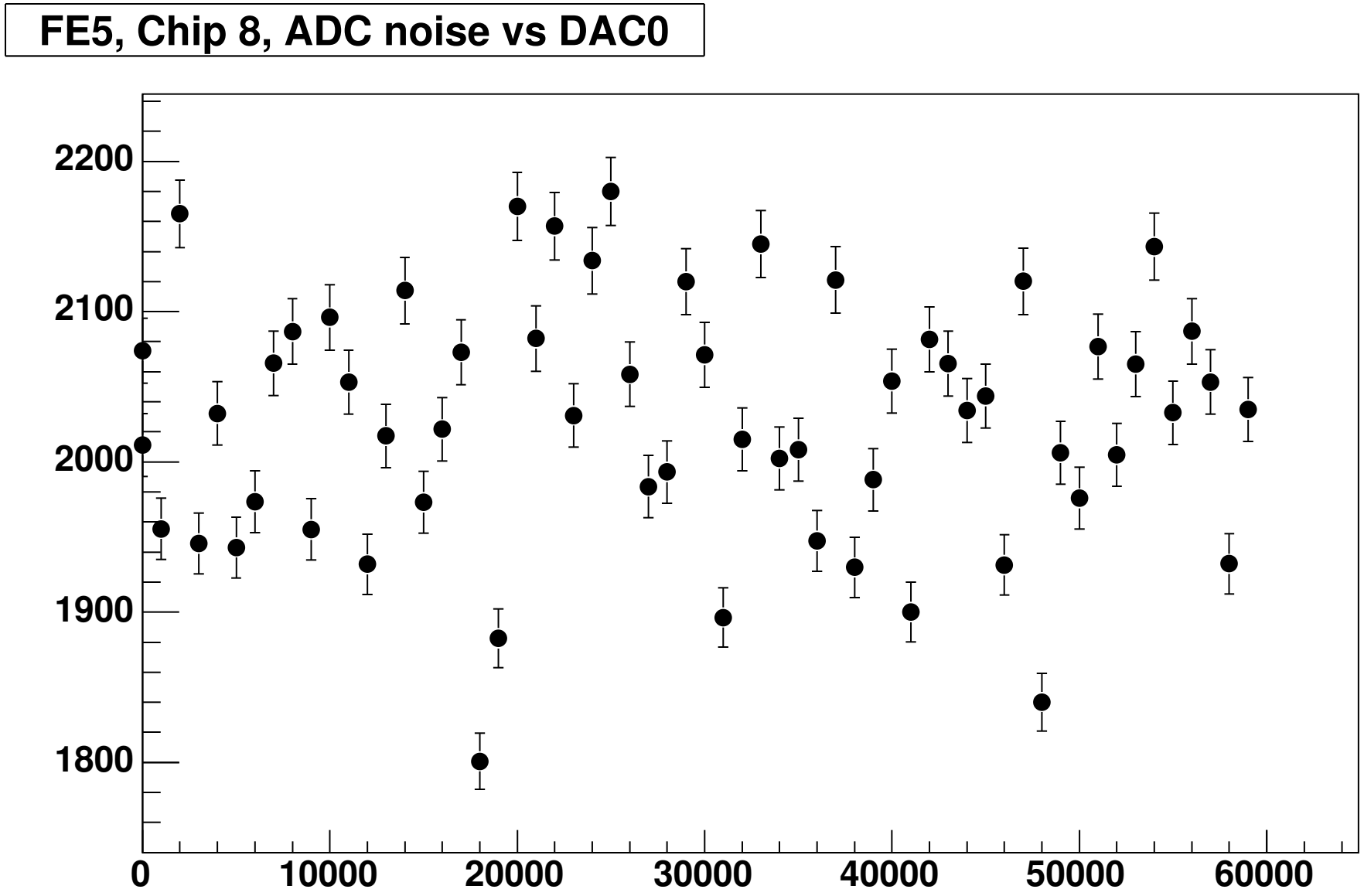

FE5, Chip 8, ADC mean vs DAC0
χ² / ndf 921.5 / 57
p0 3887 ± 7.843
p1 -0.0008869 ± 0.0002274
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE5, Chip 8, ADC noise vs DAC0
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1900
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10000
20000
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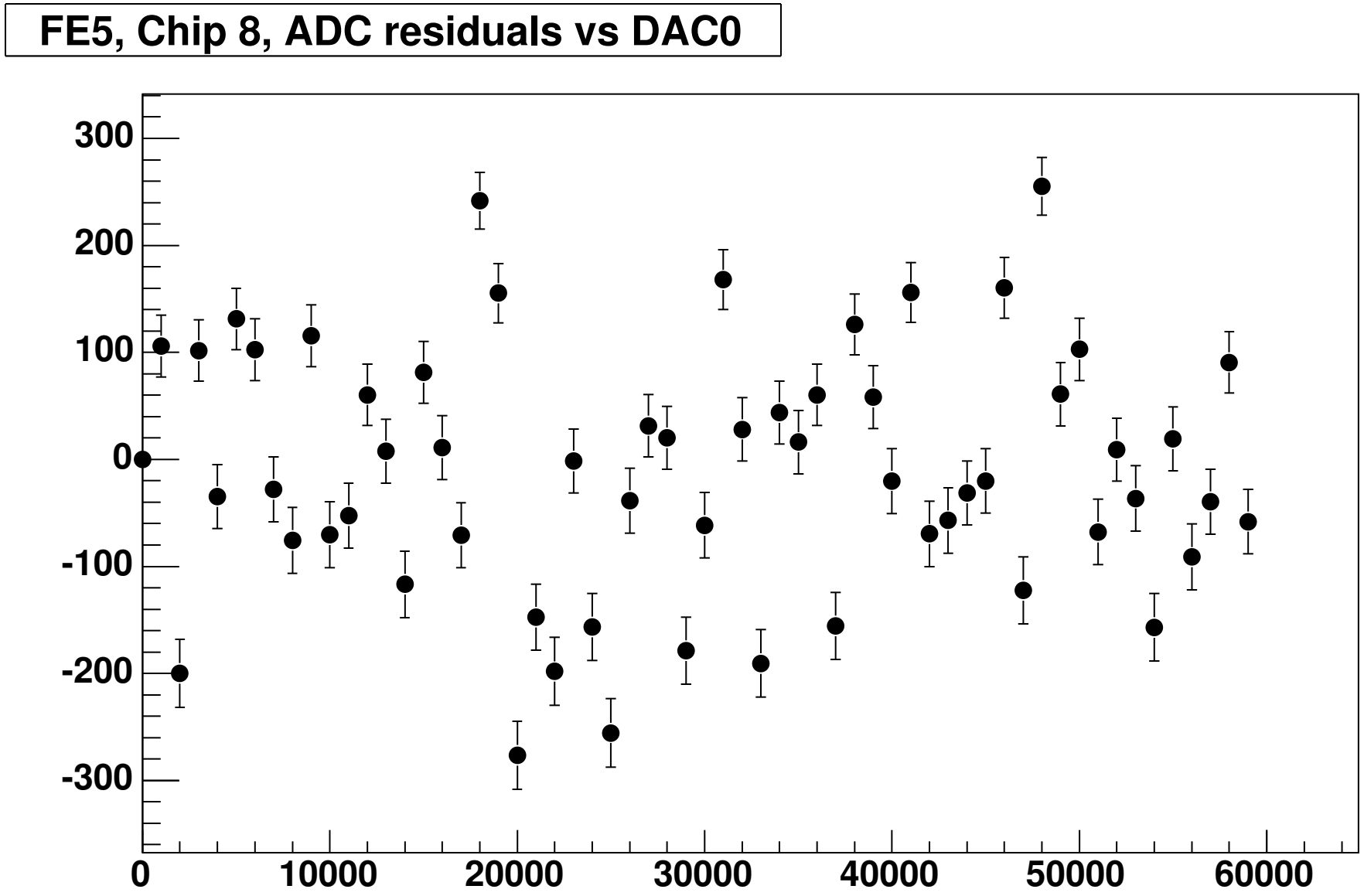
FE5, Chip 8, ADC residuals vs DAC0
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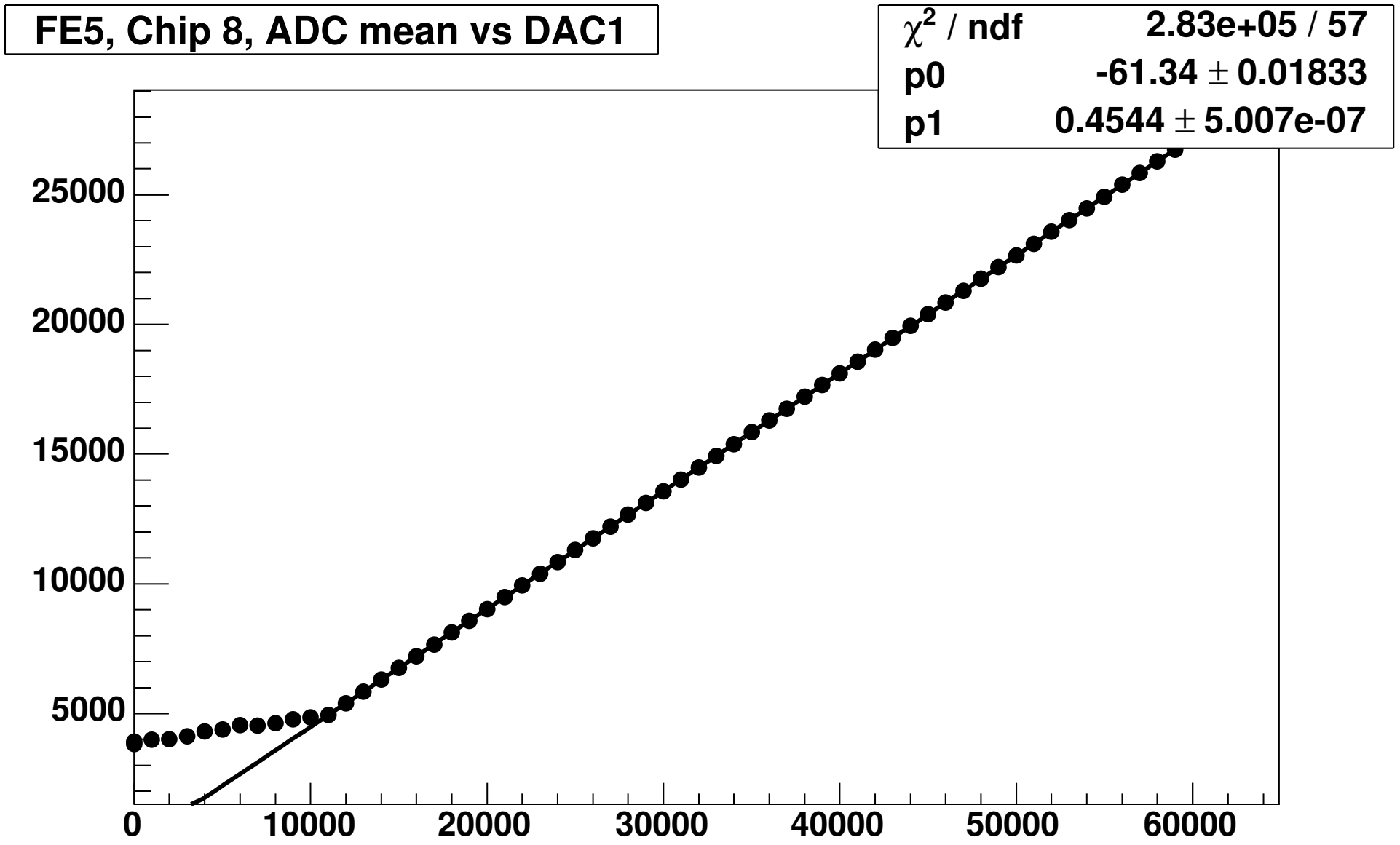
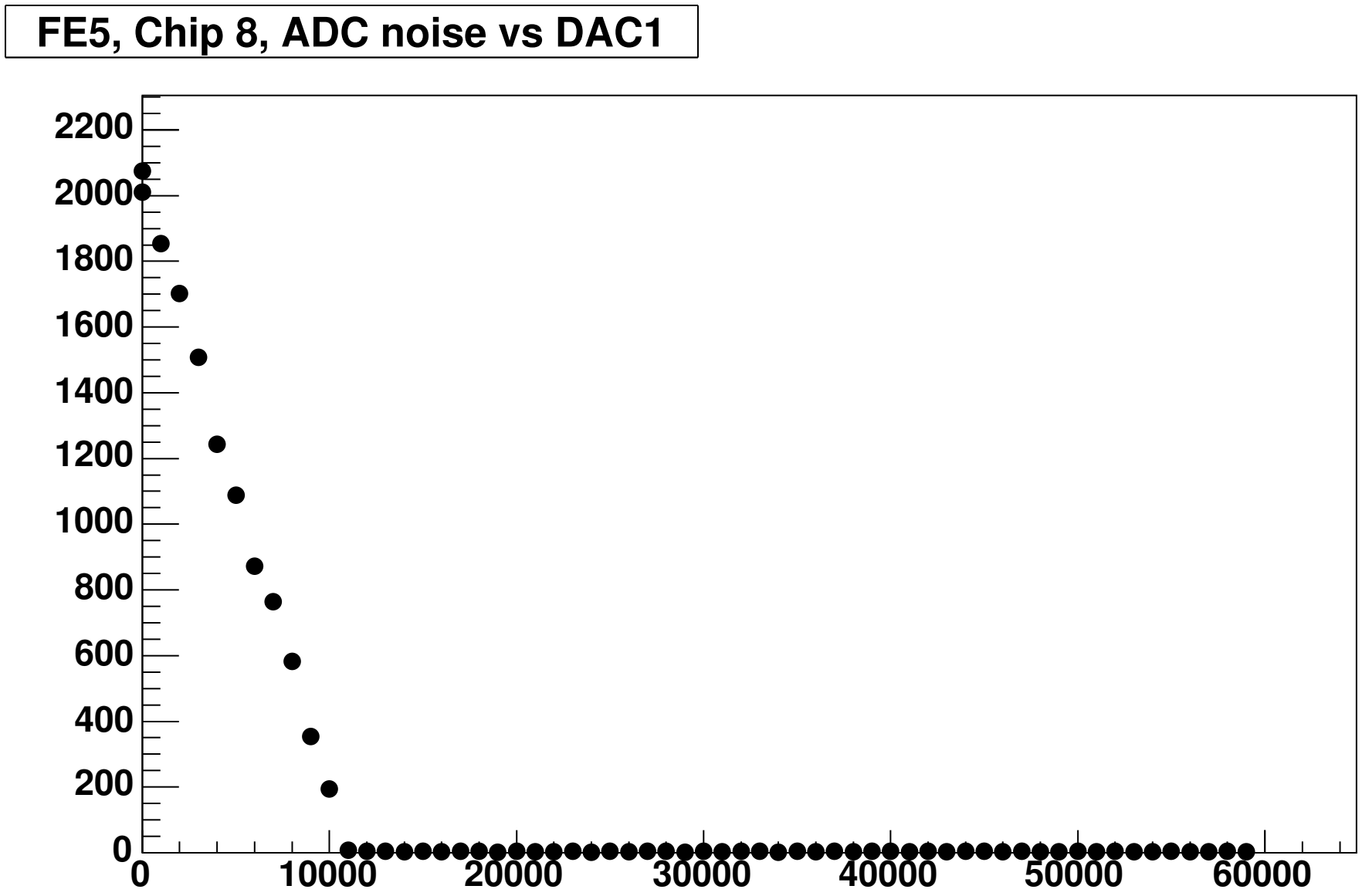
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE5, Chip 8, ADC mean vs DAC1
χ² / ndf 2.83e+05 / 57
p0 -61.34 ± 0.01833
p1 0.4544 ± 5.007e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE5, Chip 8, ADC noise vs DAC1
2200
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1800
1600
1400
1200
1000
800
600
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200
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0
10000
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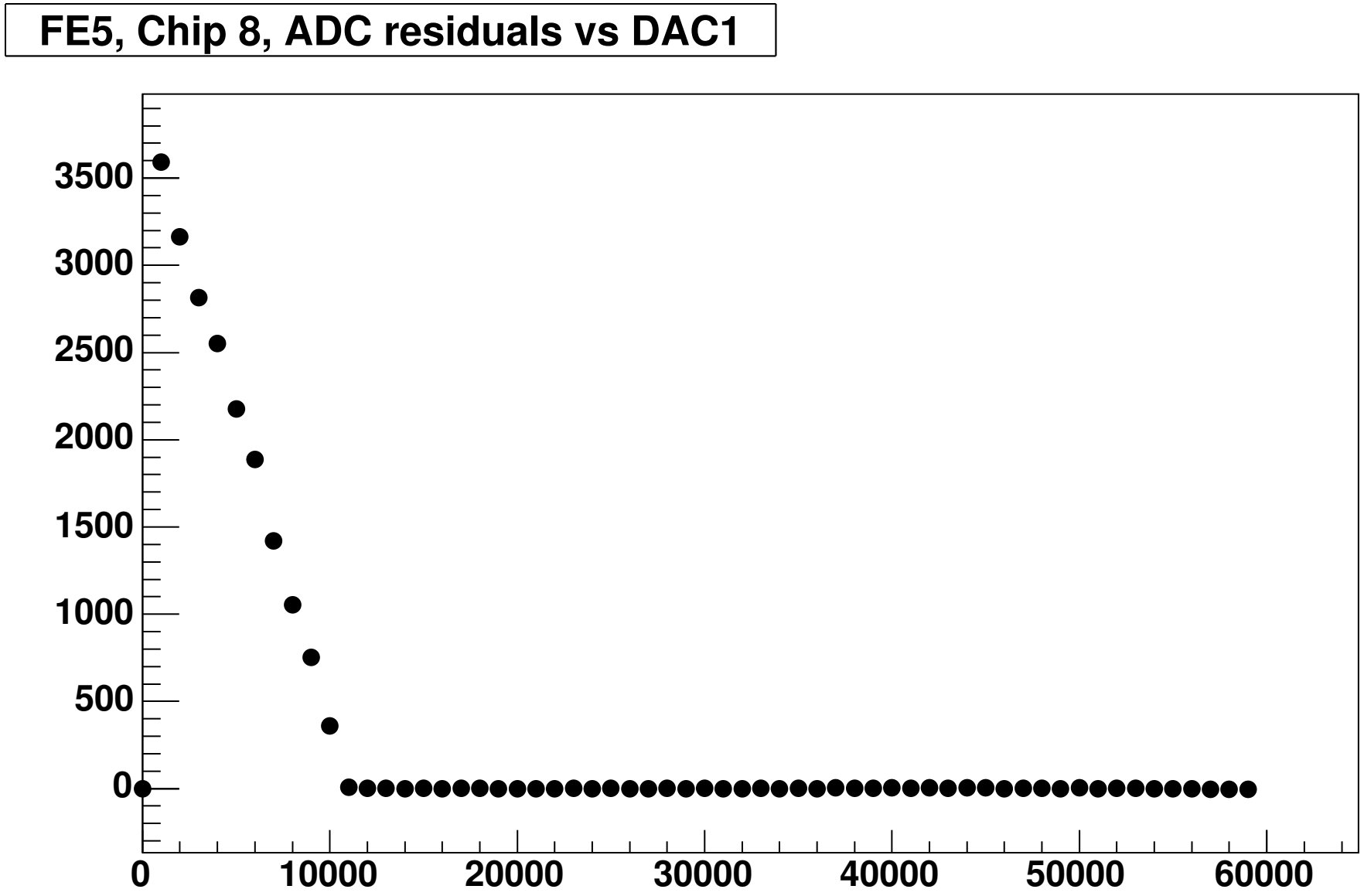
FE5, Chip 8, ADC residuals vs DAC1
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2500
2000
1500
1000
500
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10000
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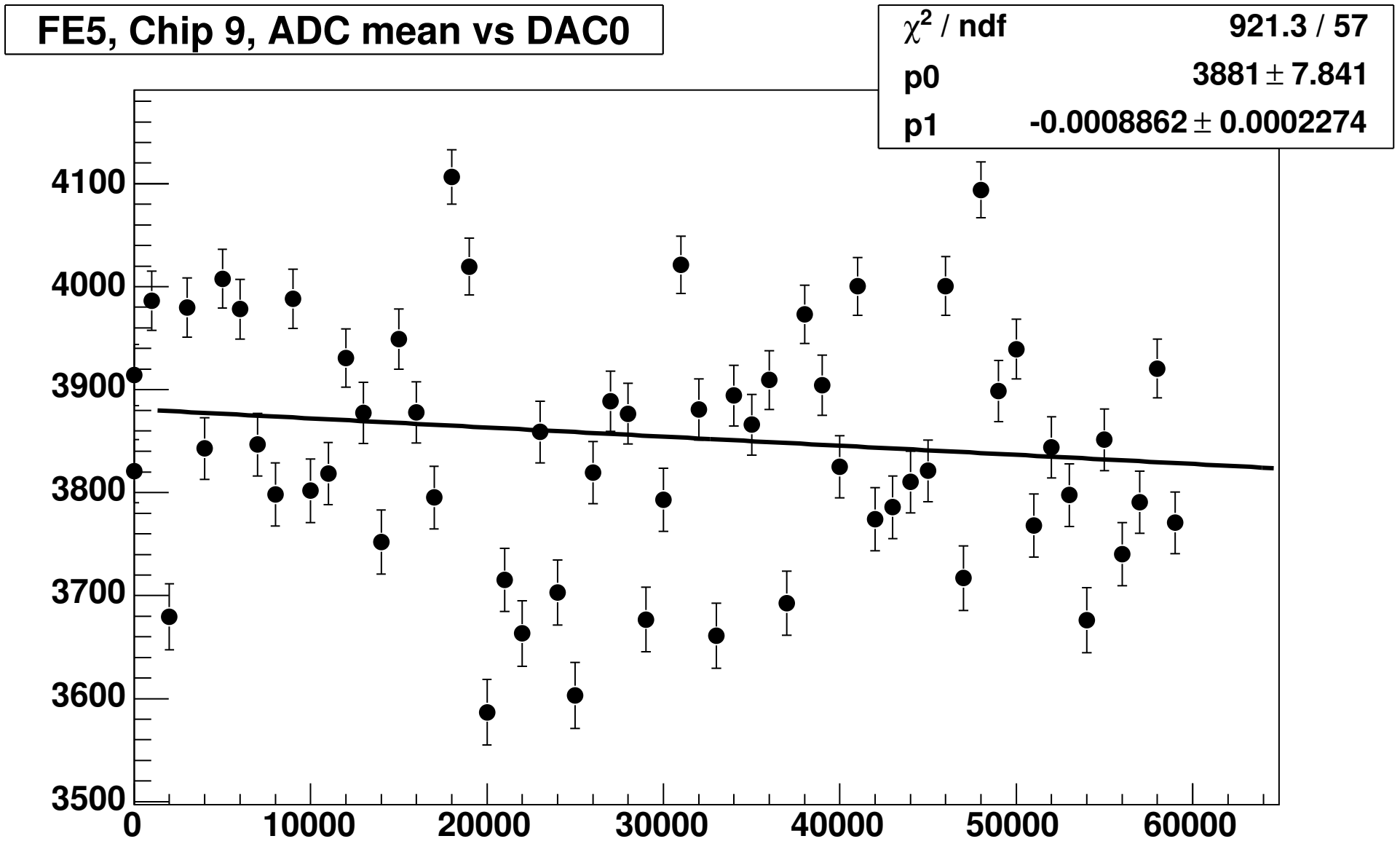
FE5, Chip 9, ADC mean vs DAC0
χ² / ndf 921.3 / 57
p0 3881 ± 7.841
p1 -0.0008862 ± 0.0002274
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4000
3900
3800
3700
3600
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0
10000
20000
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40000
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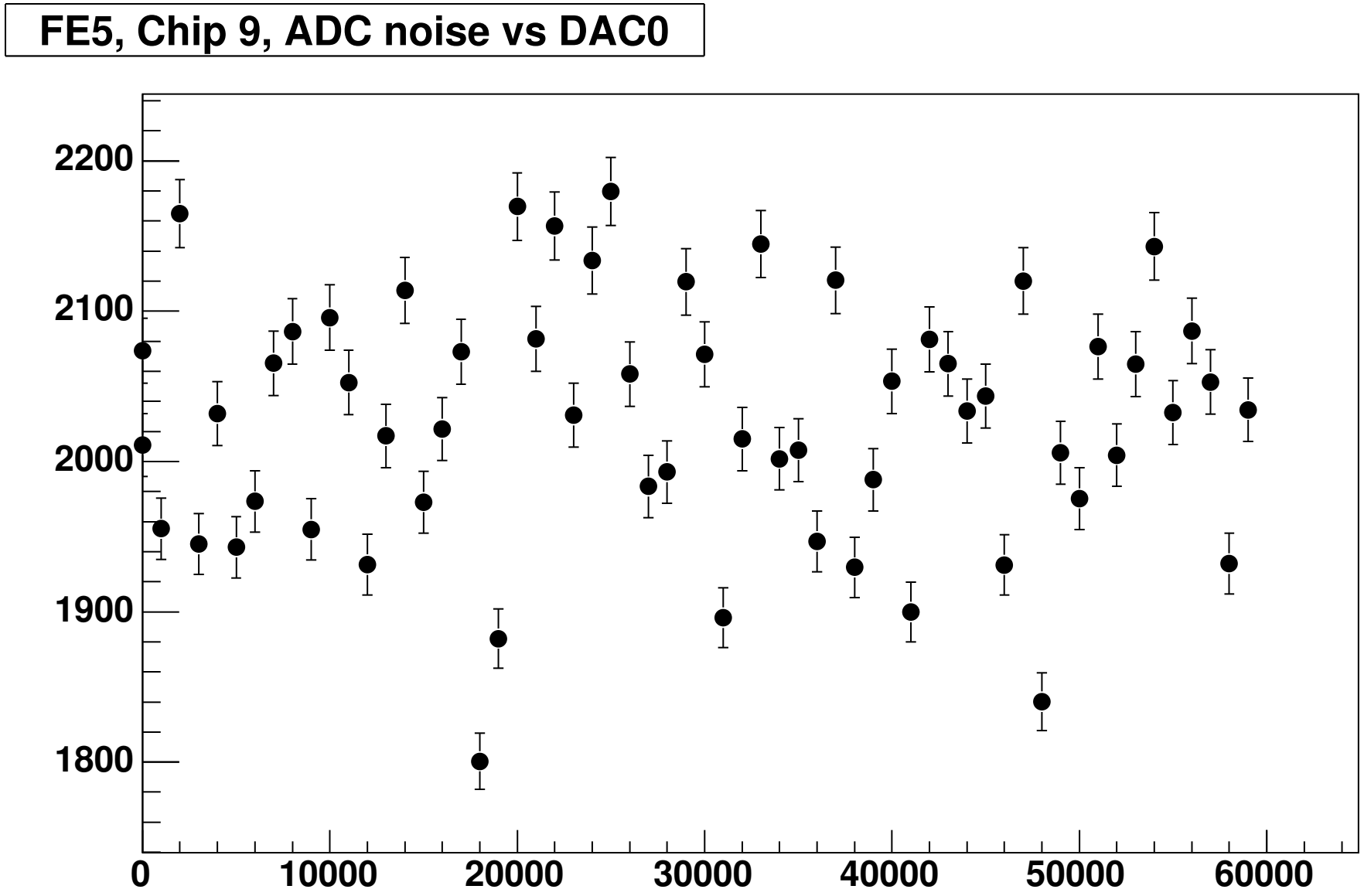
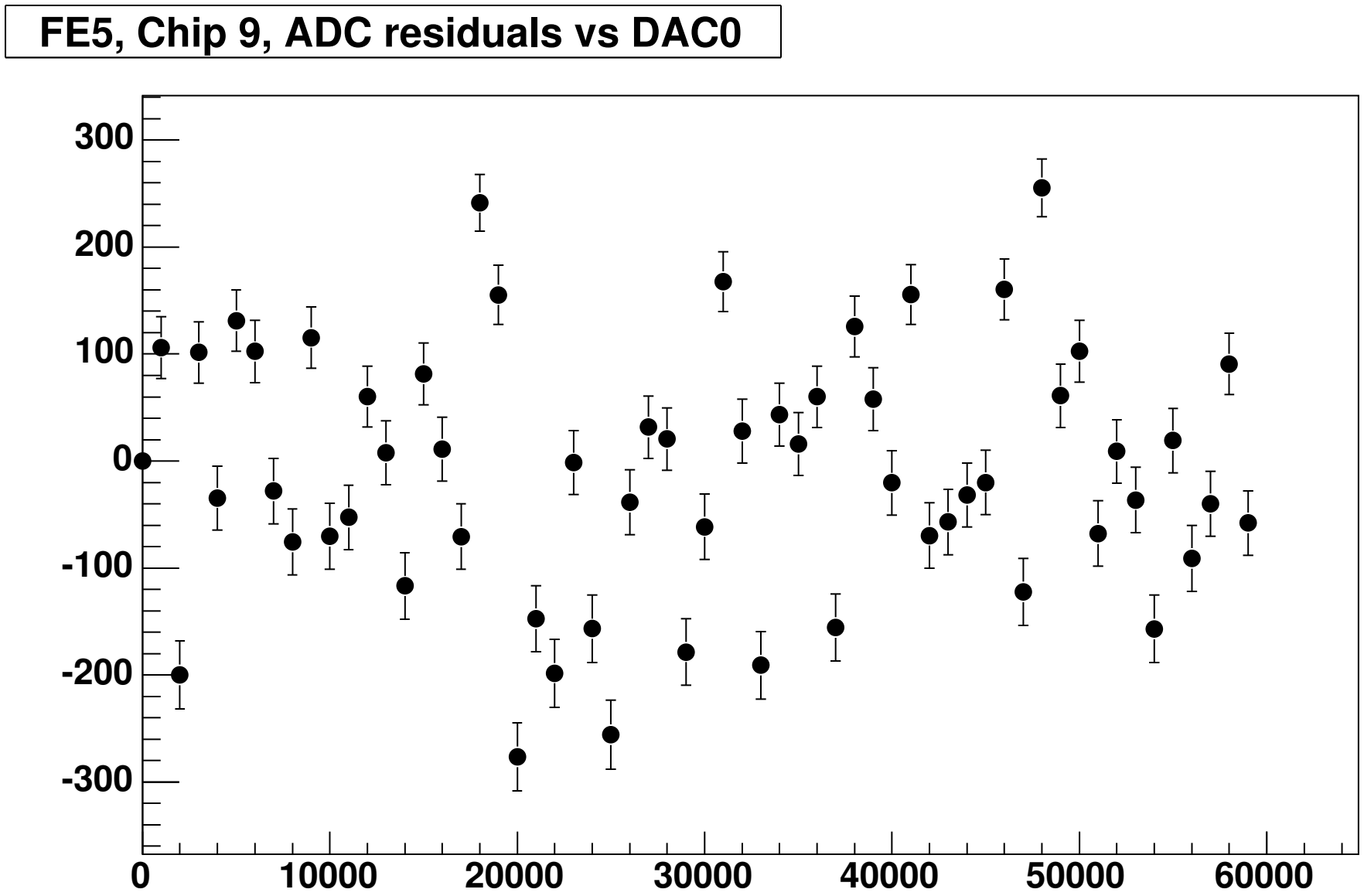
60000


FE5, Chip 9, ADC noise vs DAC0
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE5, Chip 9, ADC residuals vs DAC0
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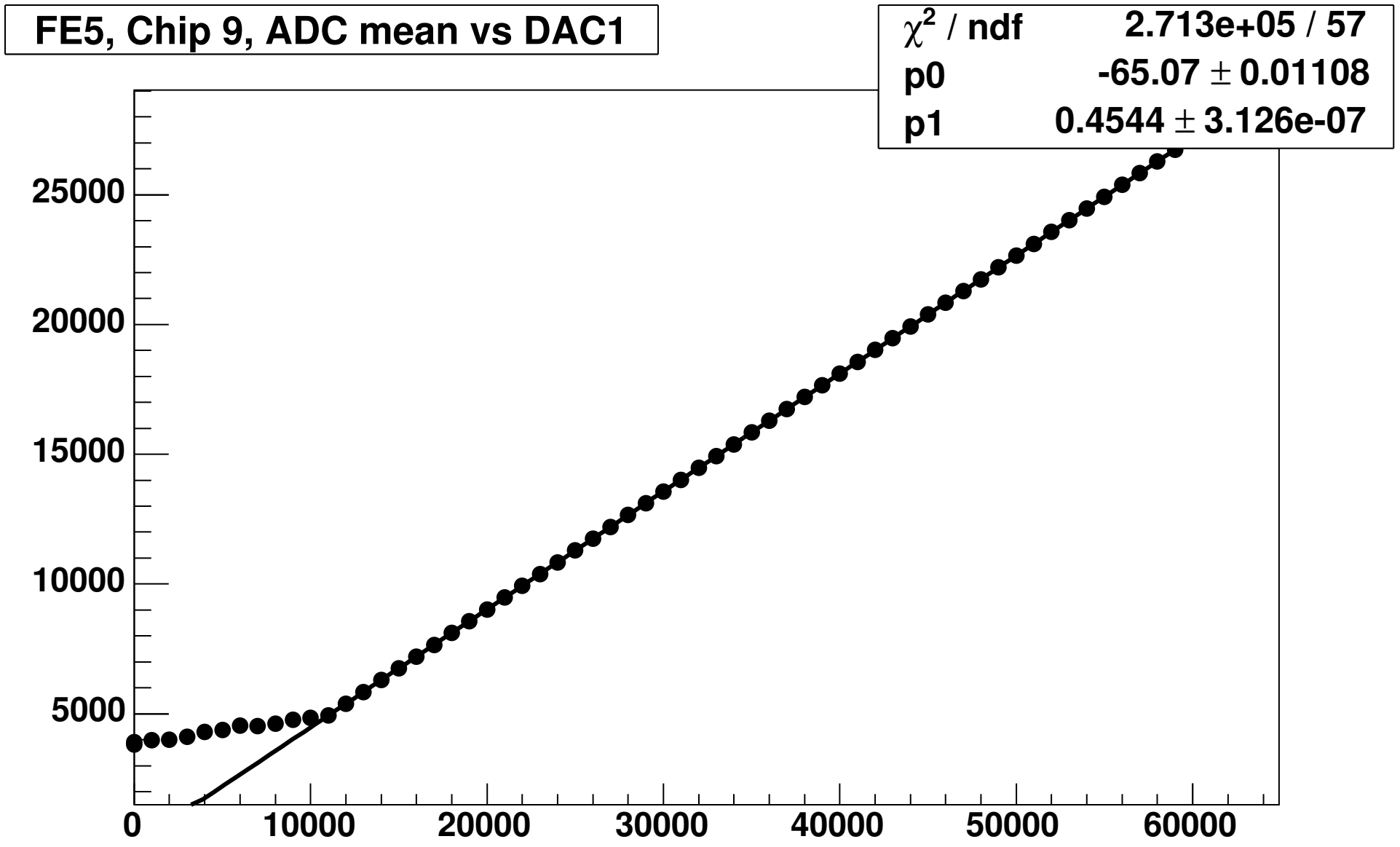
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE5, Chip 9, ADC mean vs DAC1
χ² / ndf 2.713e+05 / 57
p0 -65.07 ± 0.01108
p1 0.4544 ± 3.126e-07
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20000
15000
10000
5000
0
10000
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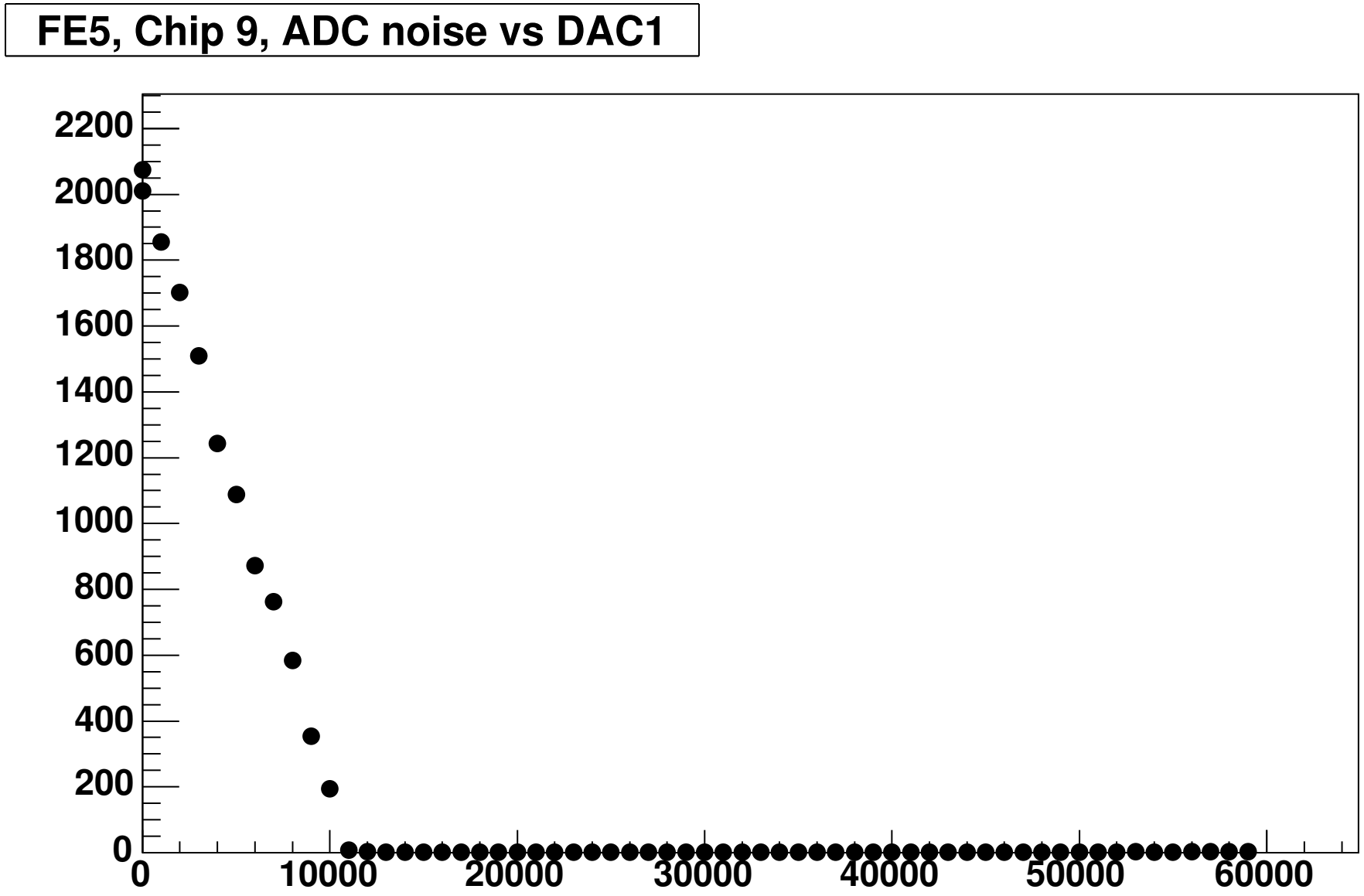
30000
40000
50000
60000


FE5, Chip 9, ADC noise vs DAC1
2200
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1800
1600
1400
1200
1000
800
600
400
200
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0
10000
20000
30000
40000
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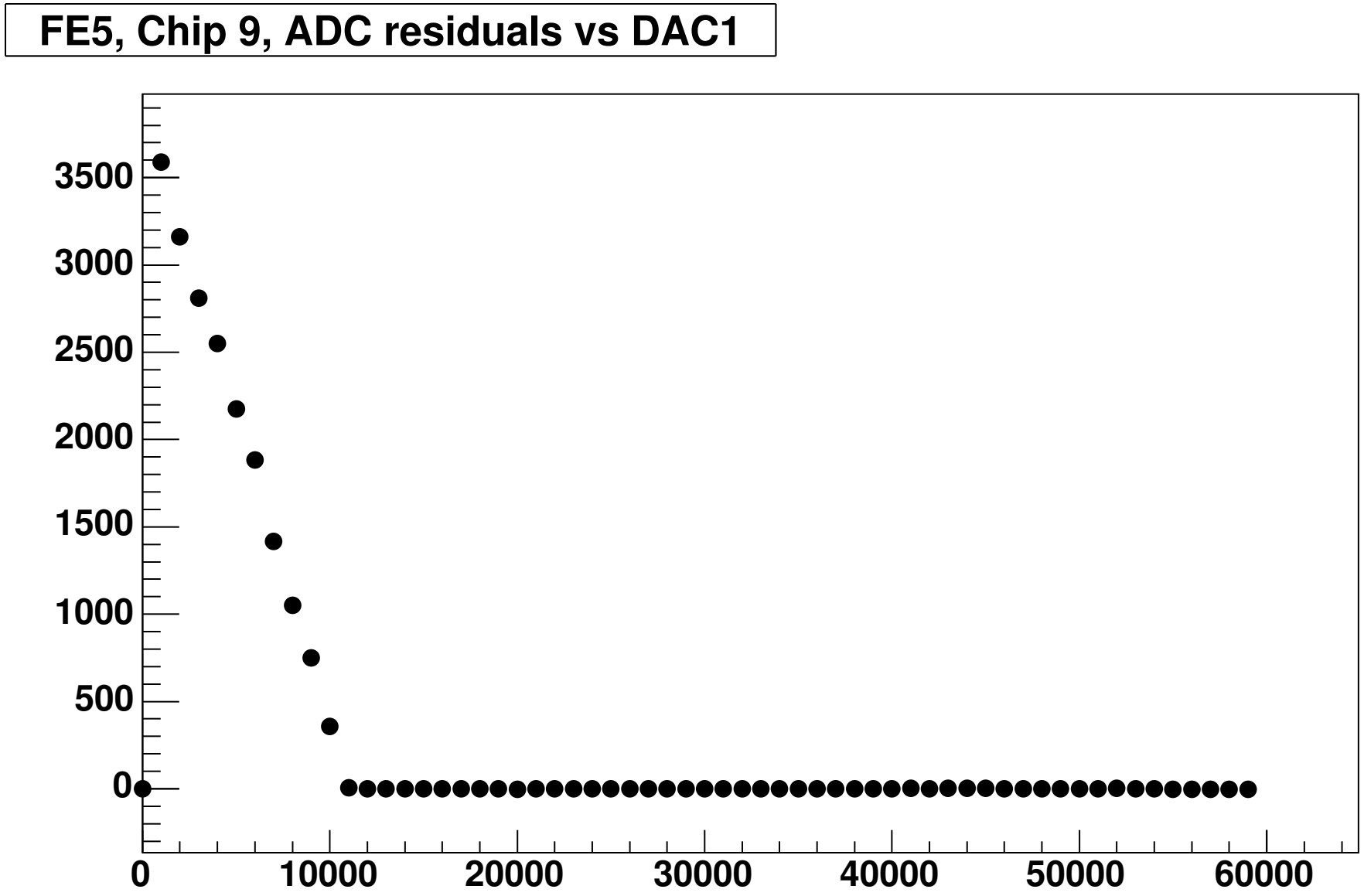
60000


FE5, Chip 9, ADC residuals vs DAC1
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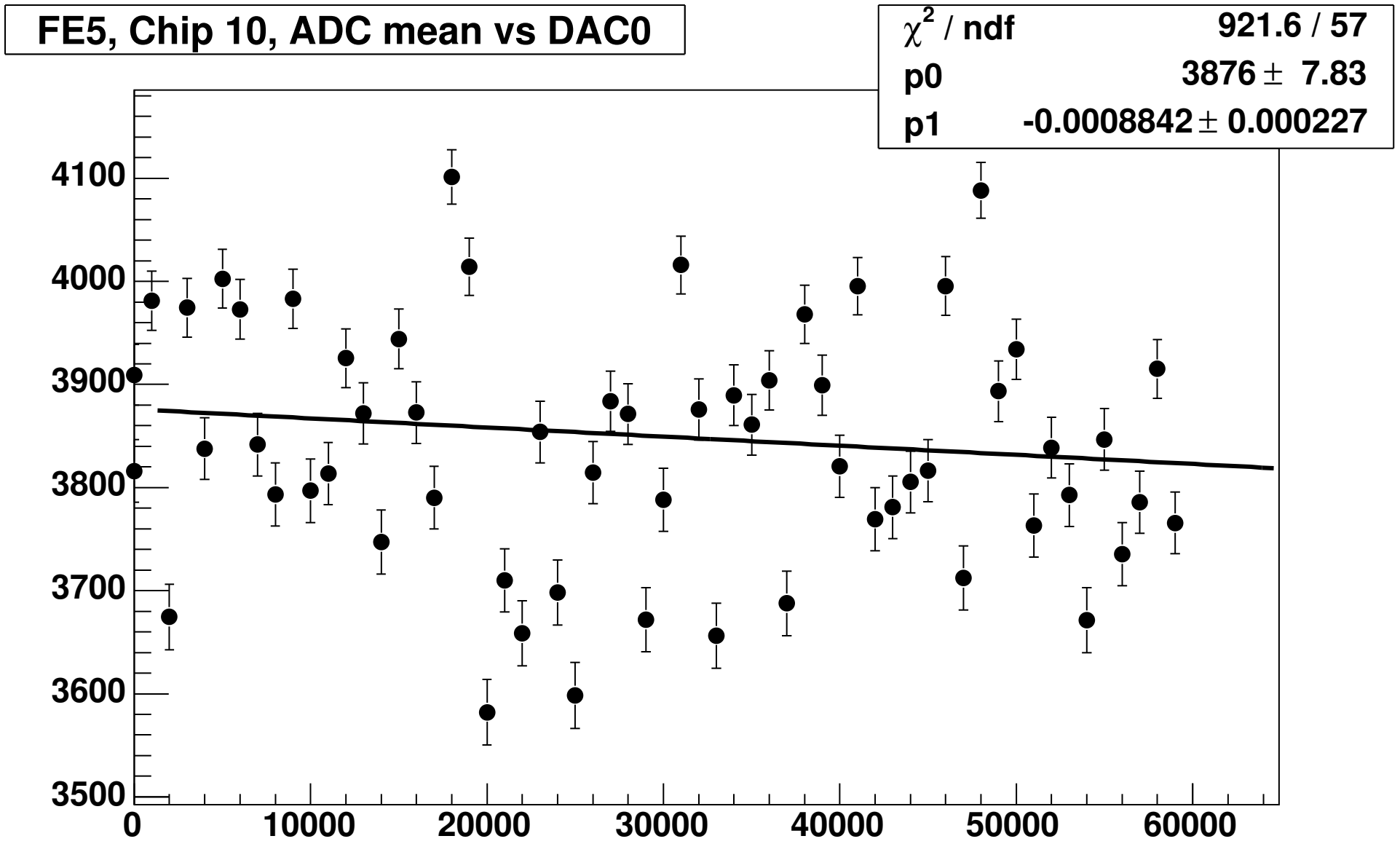
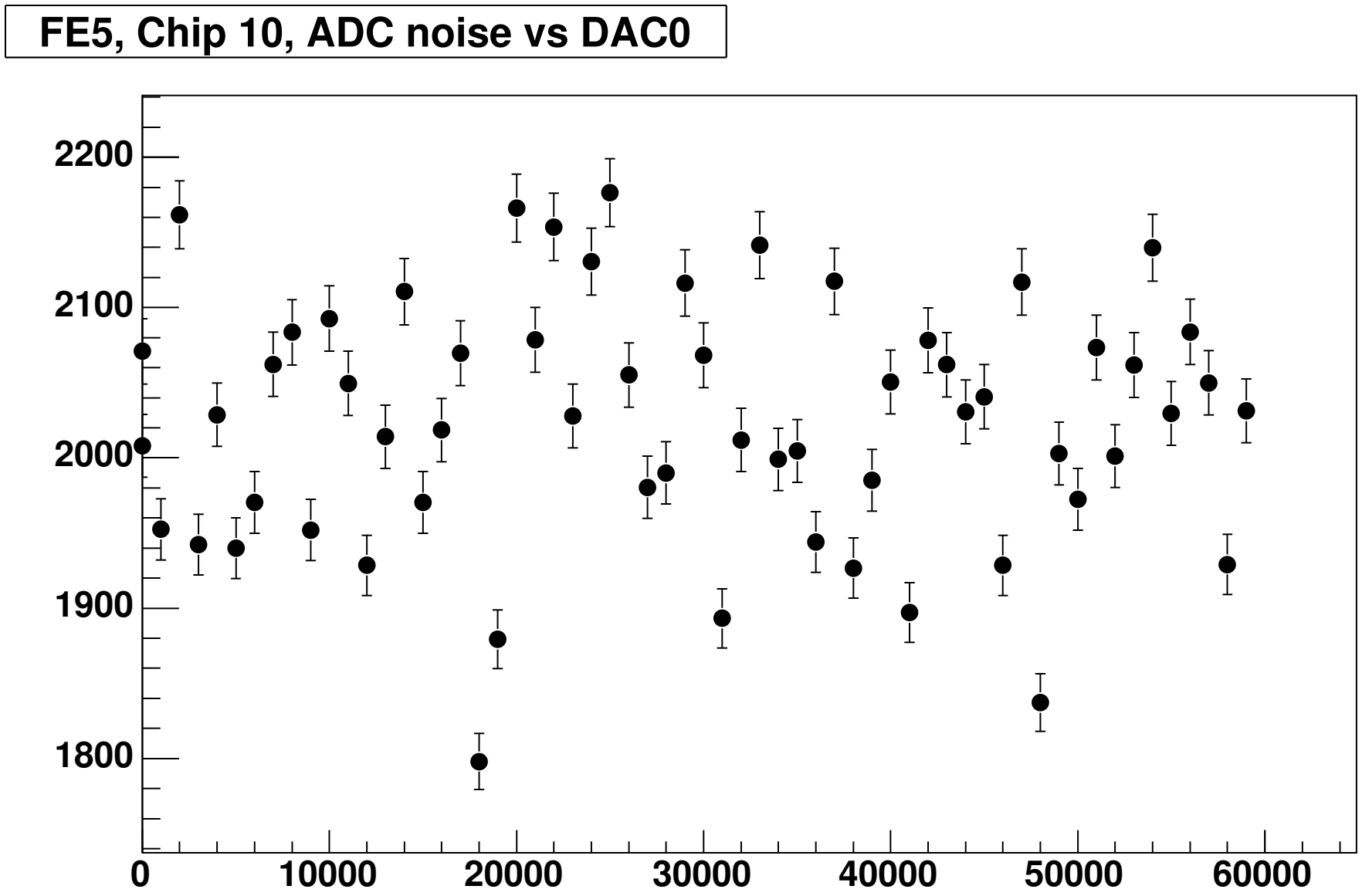
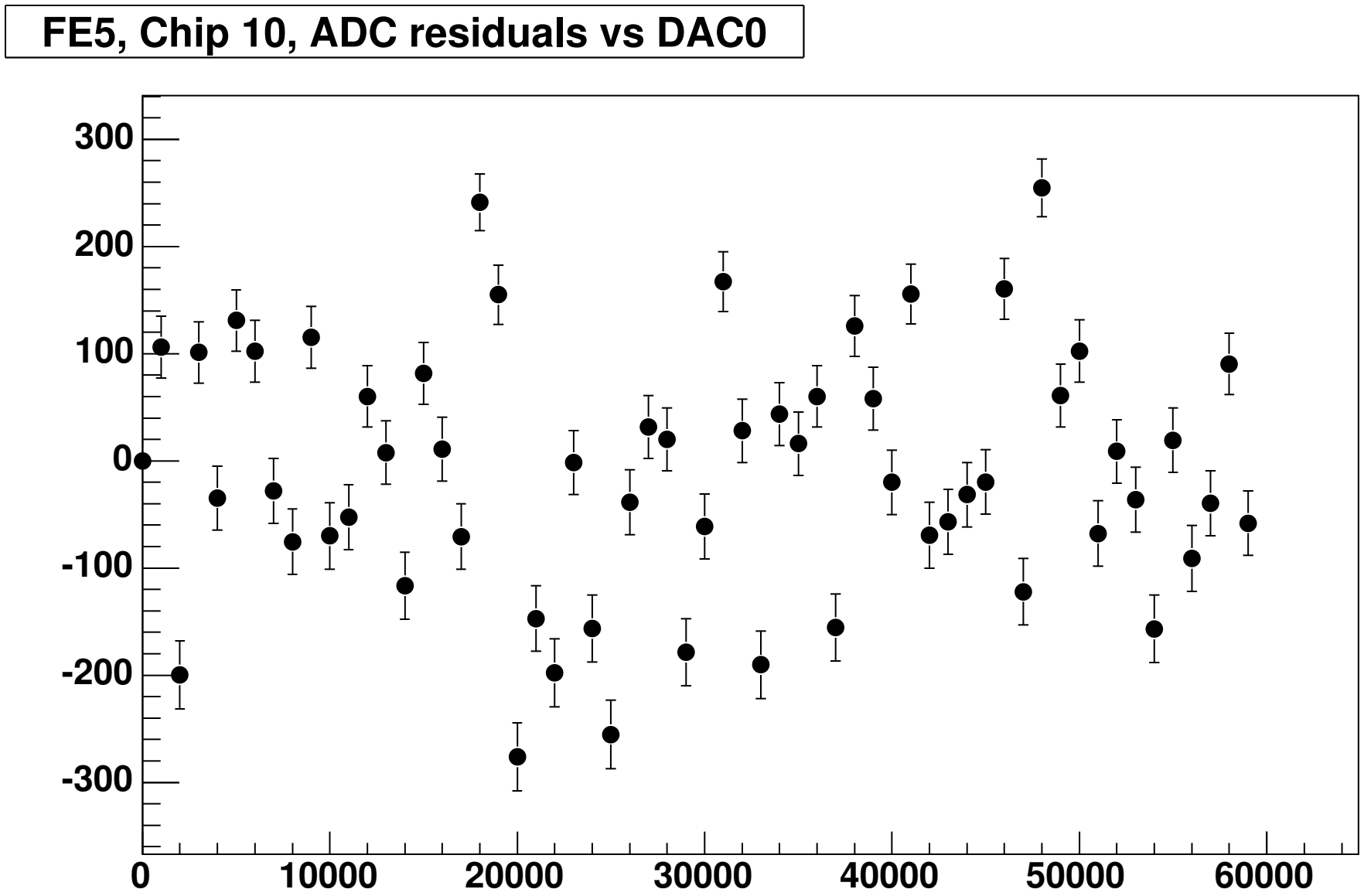
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 10, ADC mean vs DAC0
χ^2 / ndf 921.6 / 57
p0 3876 ± 7.83
p1 -0.0008842 ± 0.000227
4100
4000
3900
3800
3700
3600
3500
0
10000
20000
30000
40000
50000
60000


FE5, Chip 10, ADC noise vs DAC0
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE5, Chip 10, ADC residuals vs DAC0
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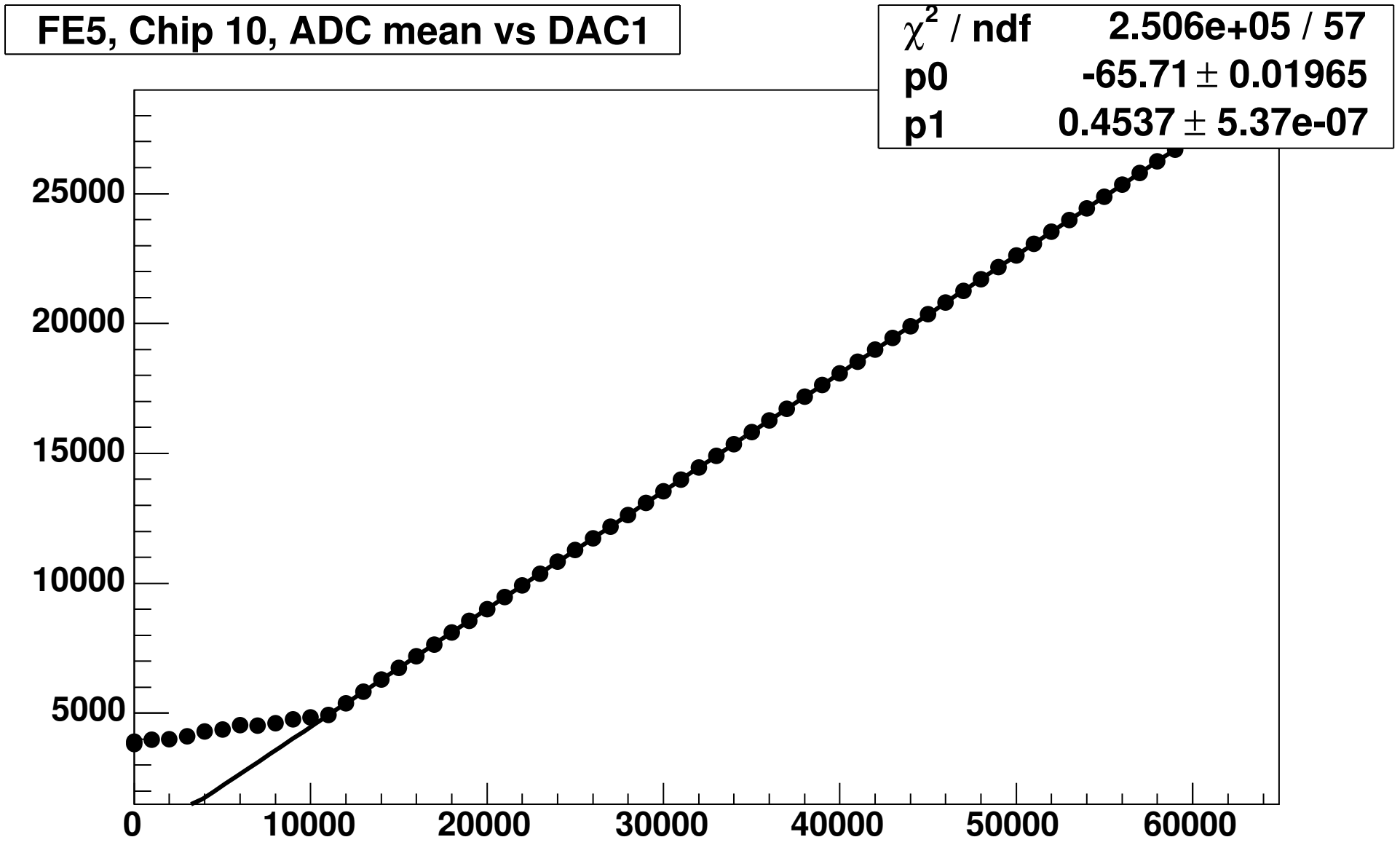
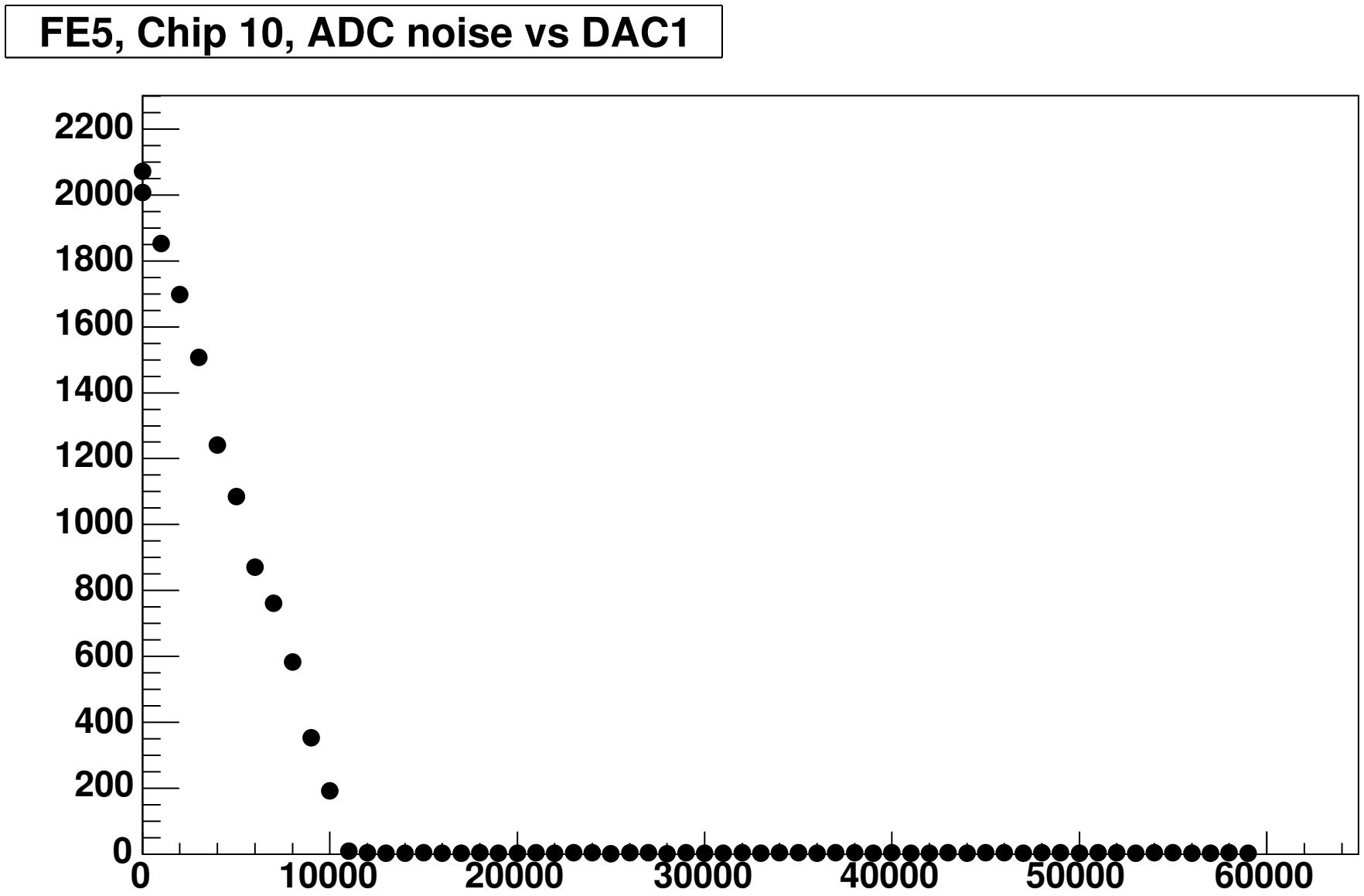
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE5, Chip 10, ADC mean vs DAC1
χ² / ndf 2.506e+05 / 57
p0 -65.71 ± 0.01965
p1 0.4537 ± 5.37e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE5, Chip 10, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
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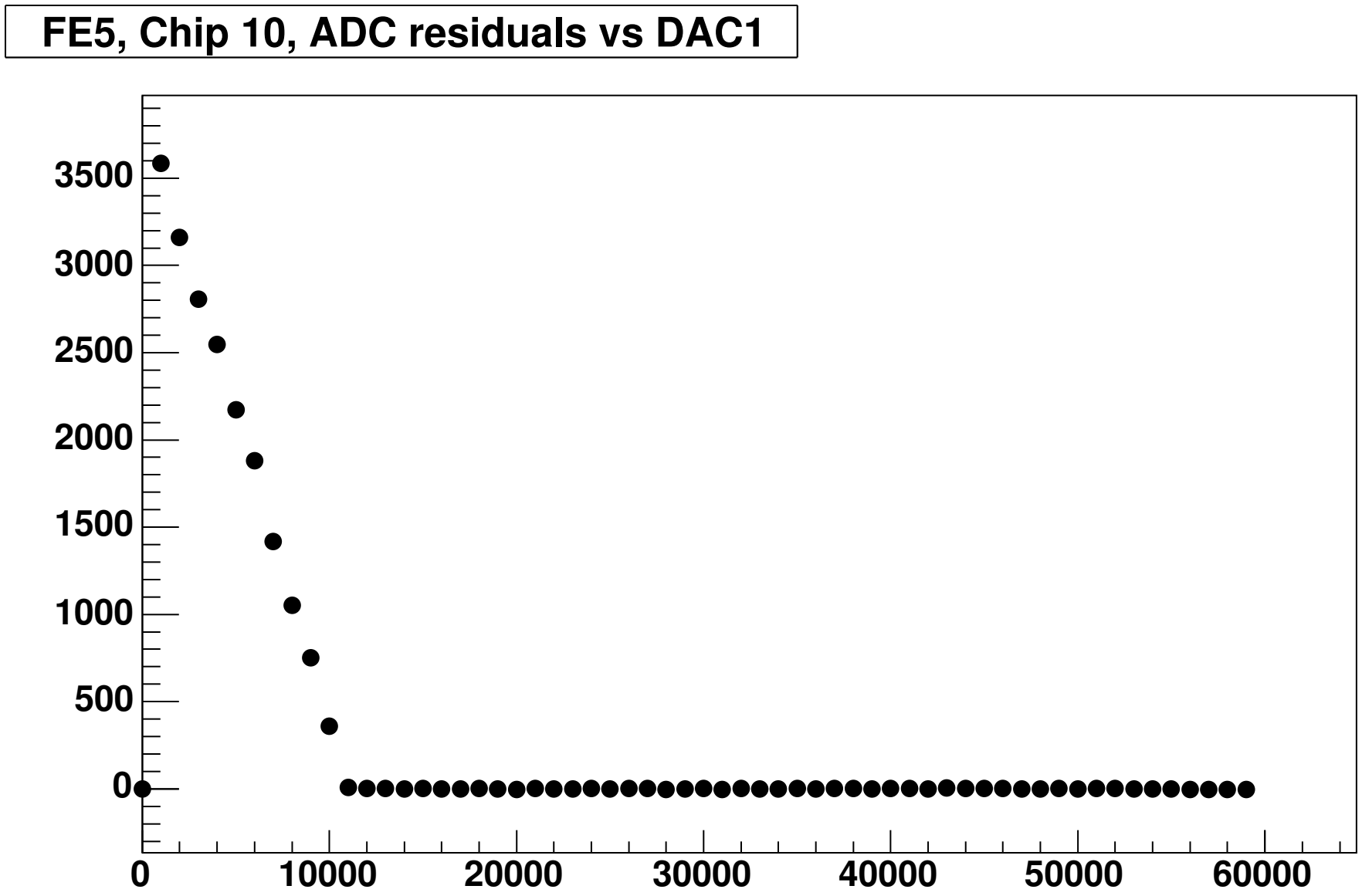
FE5, Chip 10, ADC residuals vs DAC1
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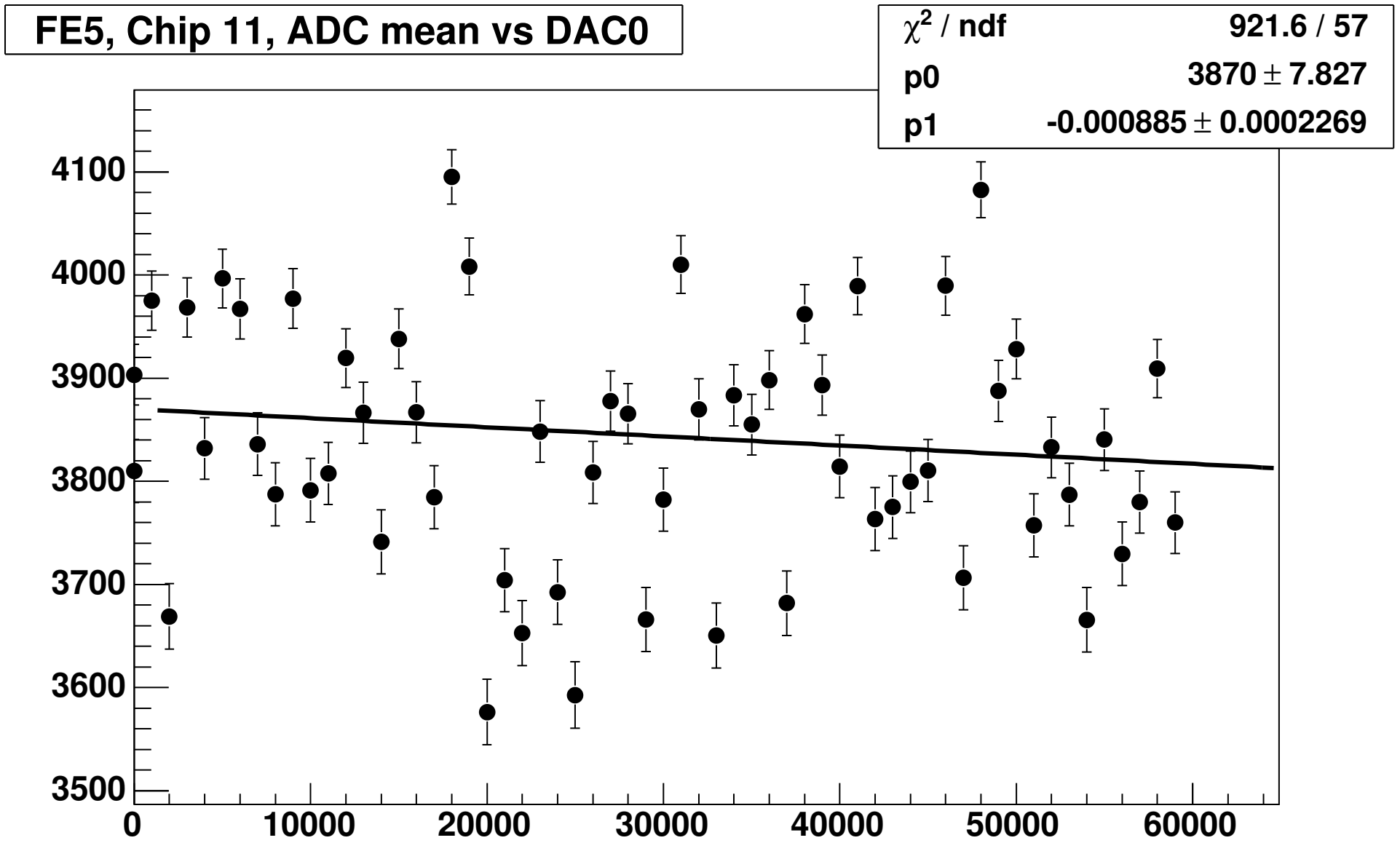
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 11, ADC mean vs DAC0
χ² / ndf 921.6 / 57
p0 3870 ± 7.827
p1 -0.000885 ± 0.0002269
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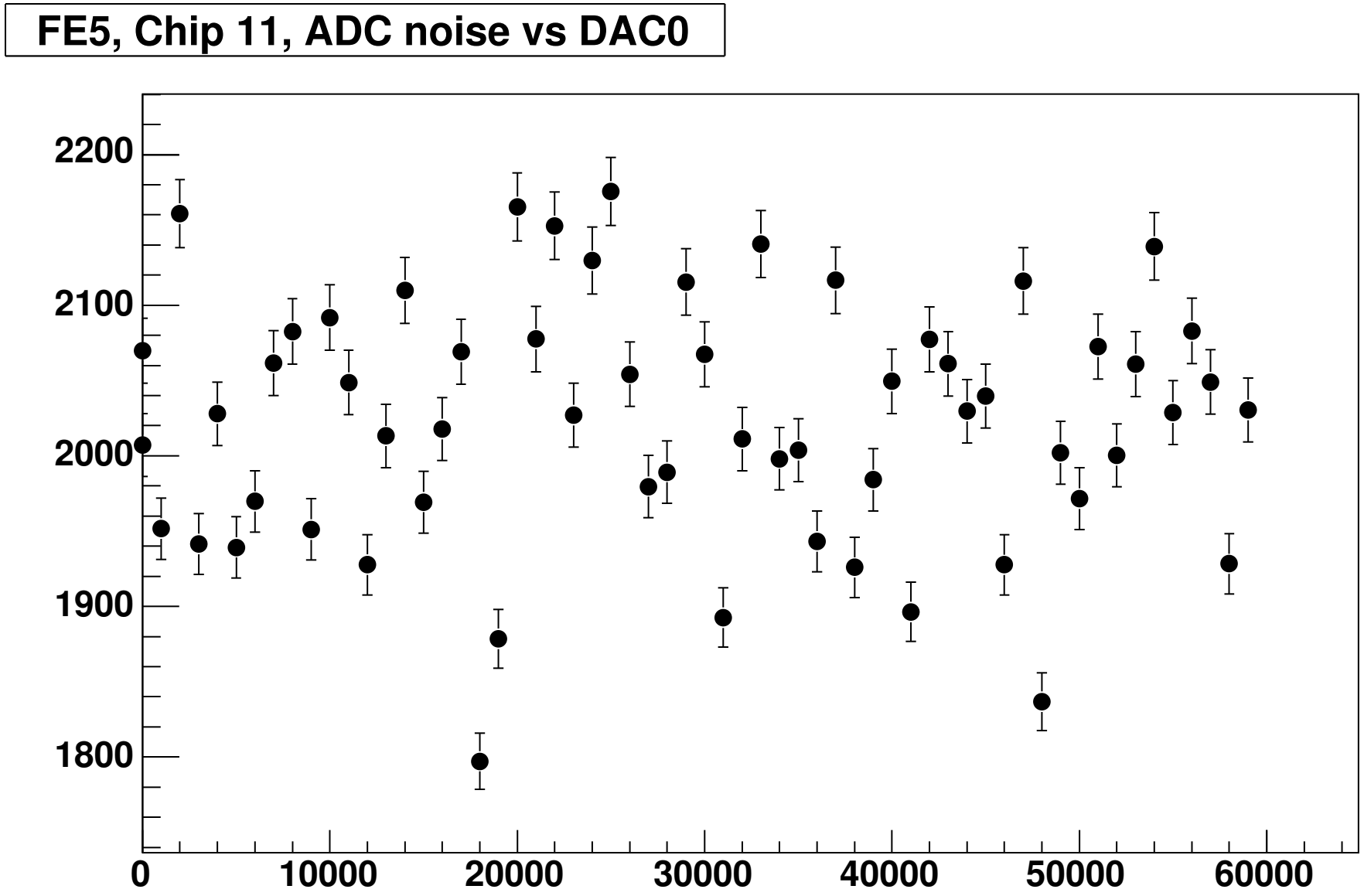
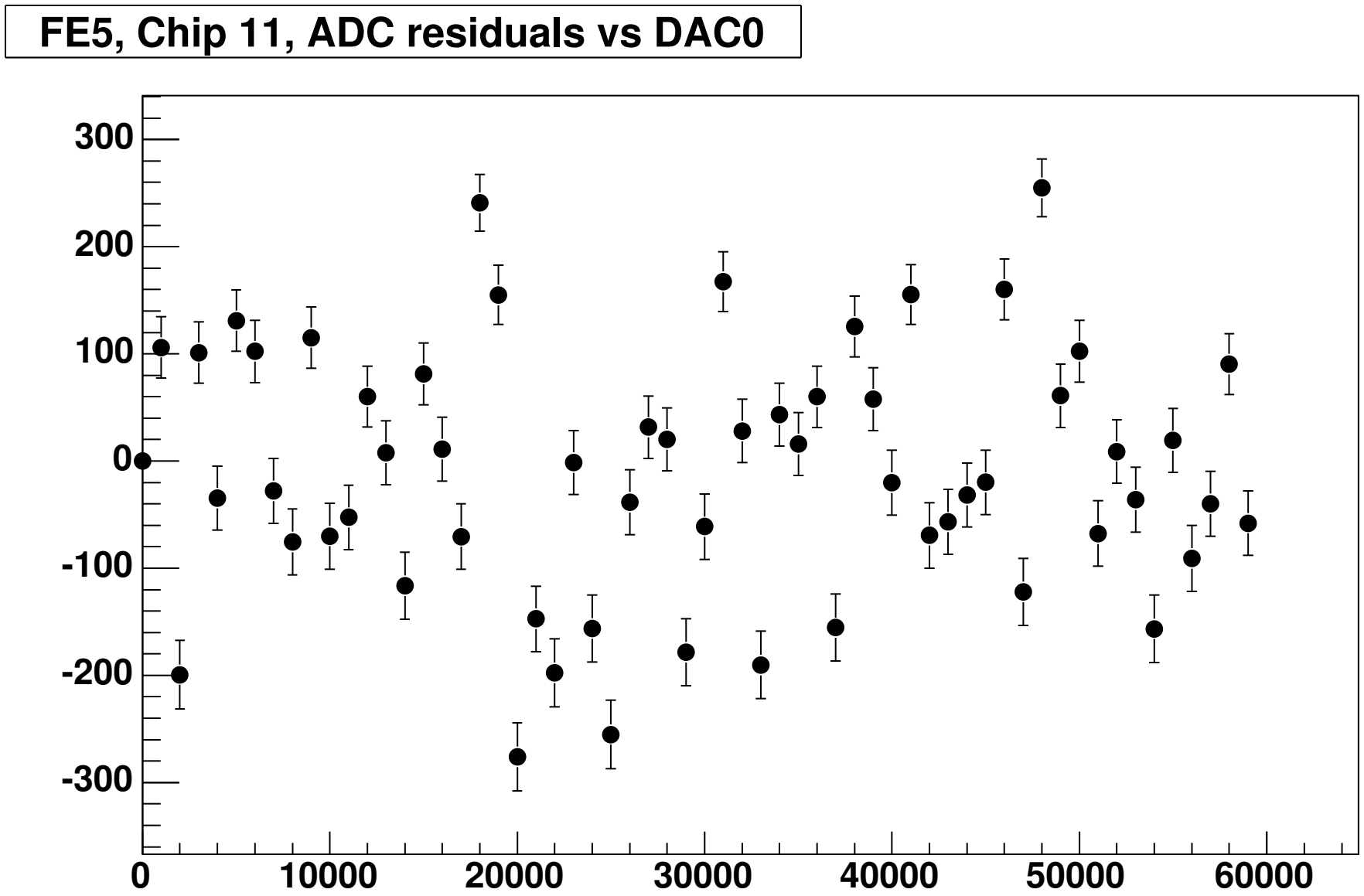
4000
3900
3800
3700
3600
3500
0
10000
20000
30000
40000
50000
60000


FE5, Chip 11, ADC noise vs DAC0
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE5, Chip 11, ADC residuals vs DAC0
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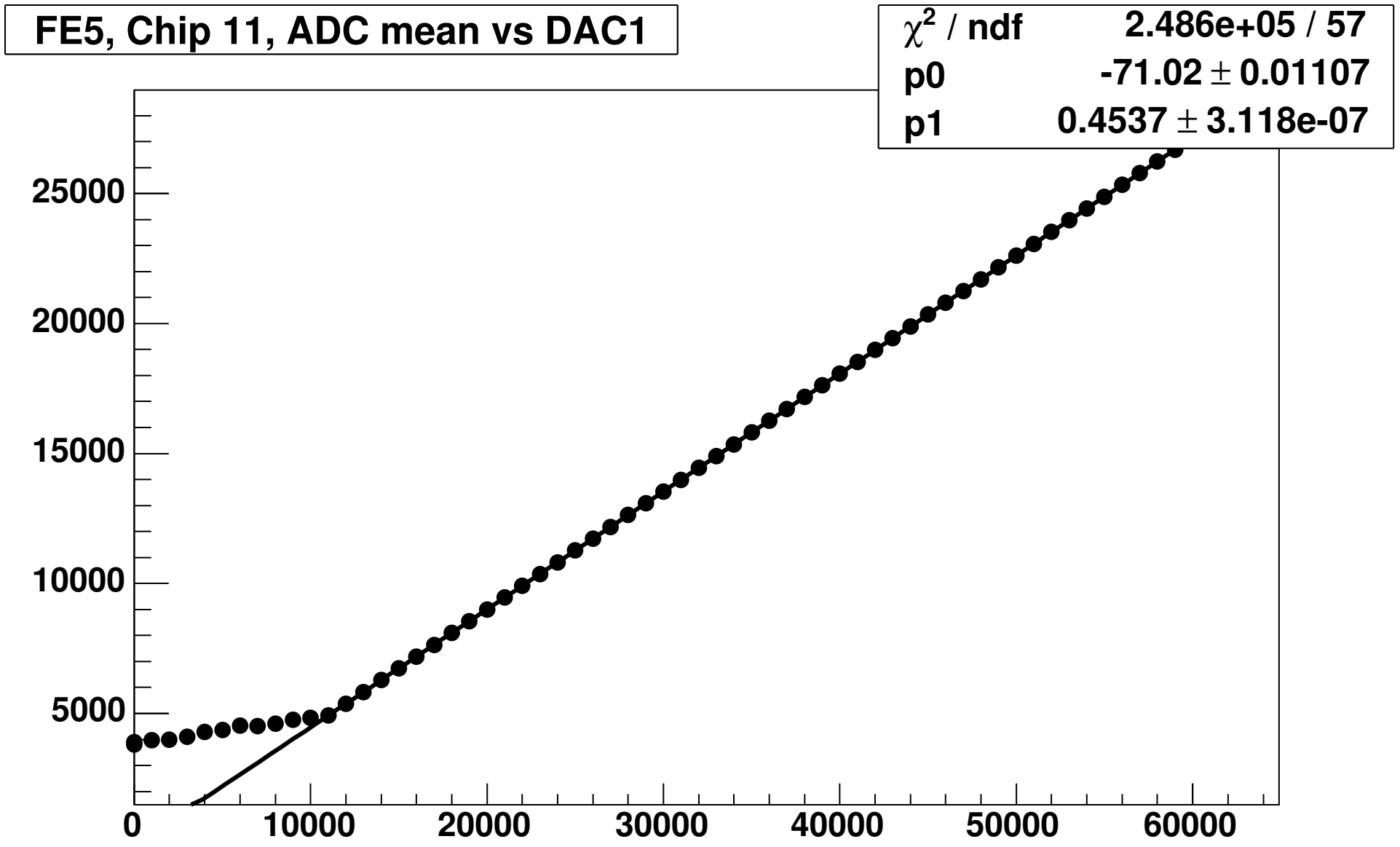
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE5, Chip 11, ADC mean vs DAC1
χ² / ndf 2.486e+05 / 57
p0 -71.02 ± 0.01107
p1 0.4537 ± 3.118e-07
25000
20000
15000
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0
10000
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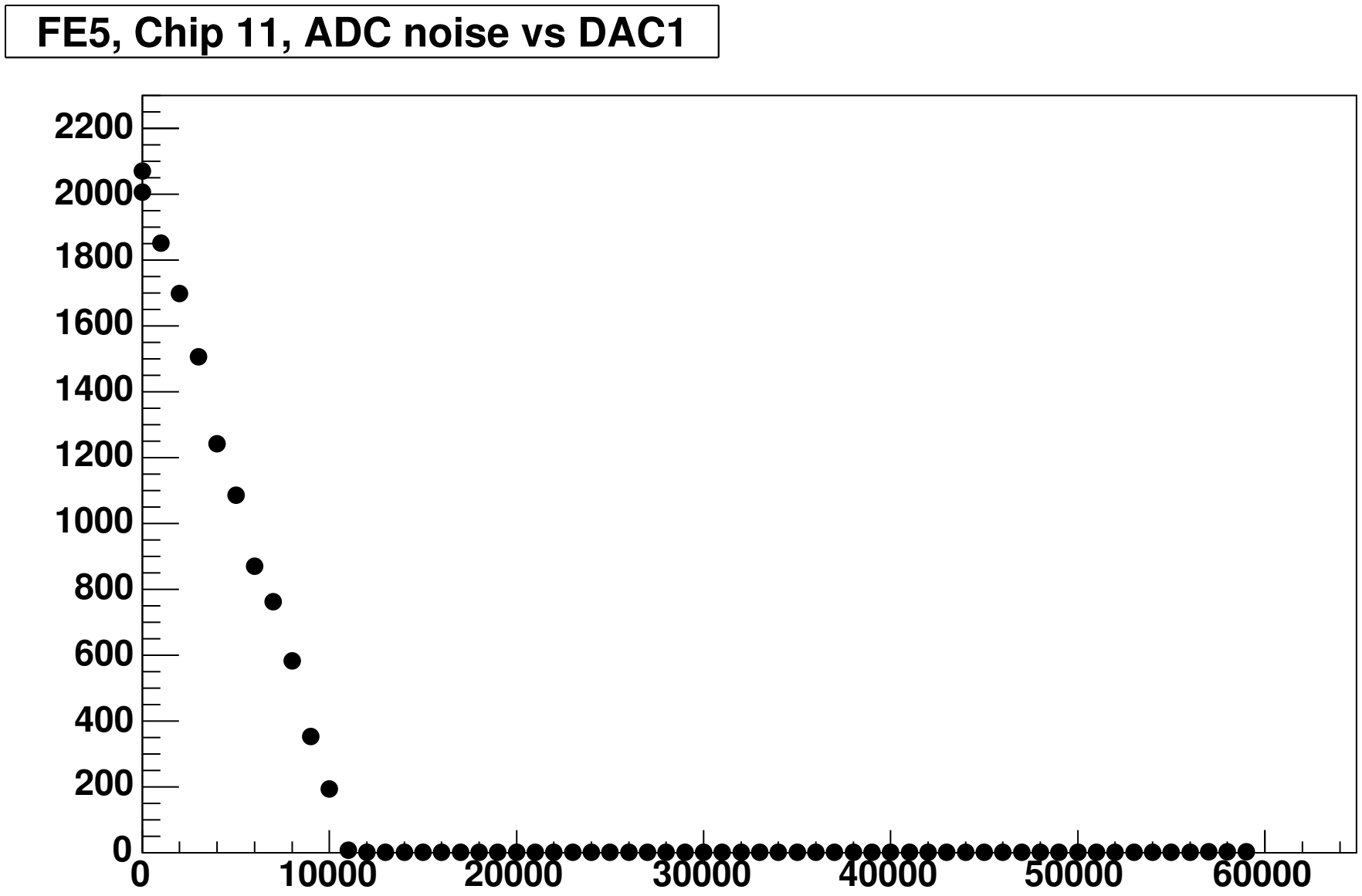
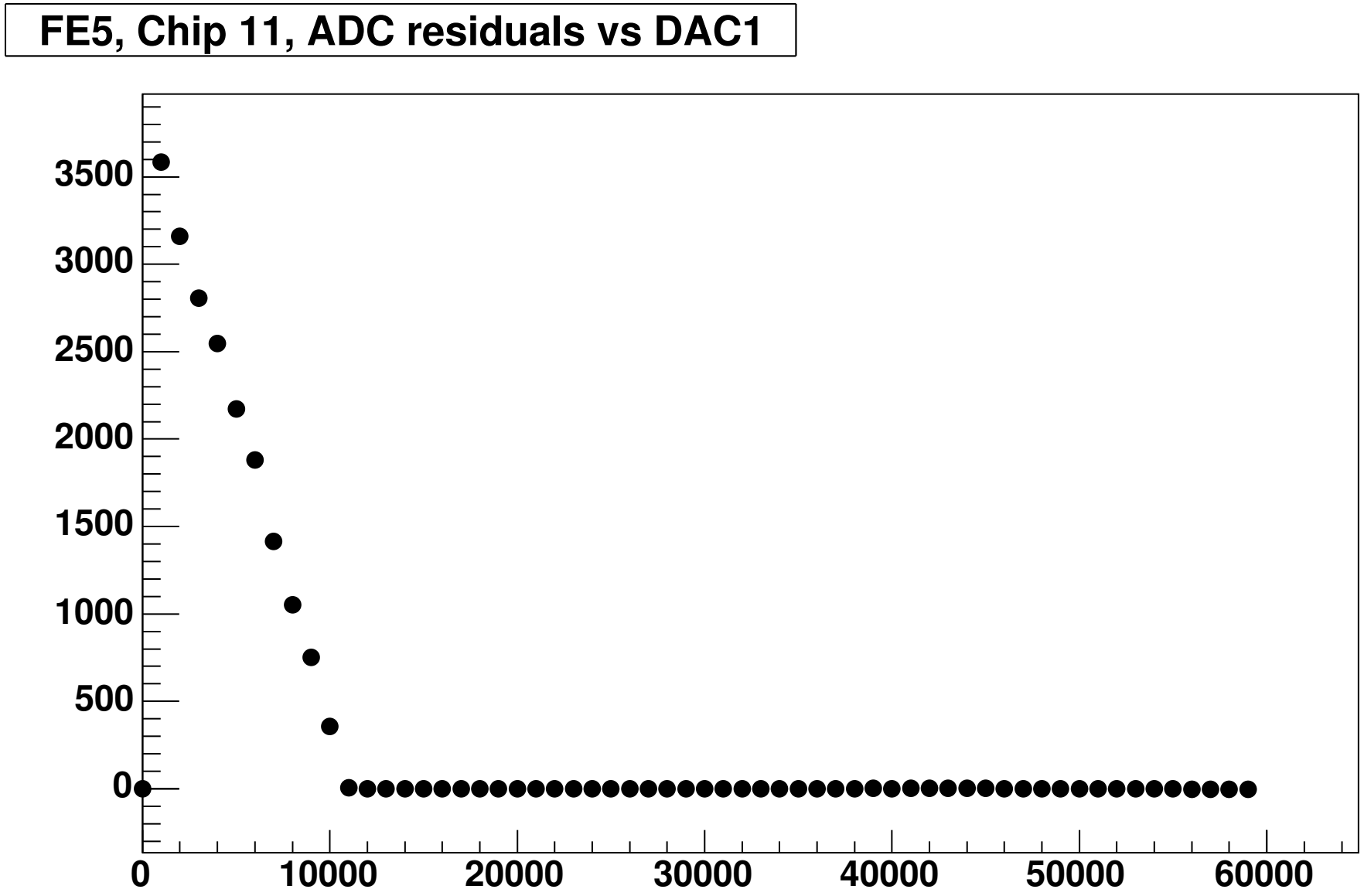
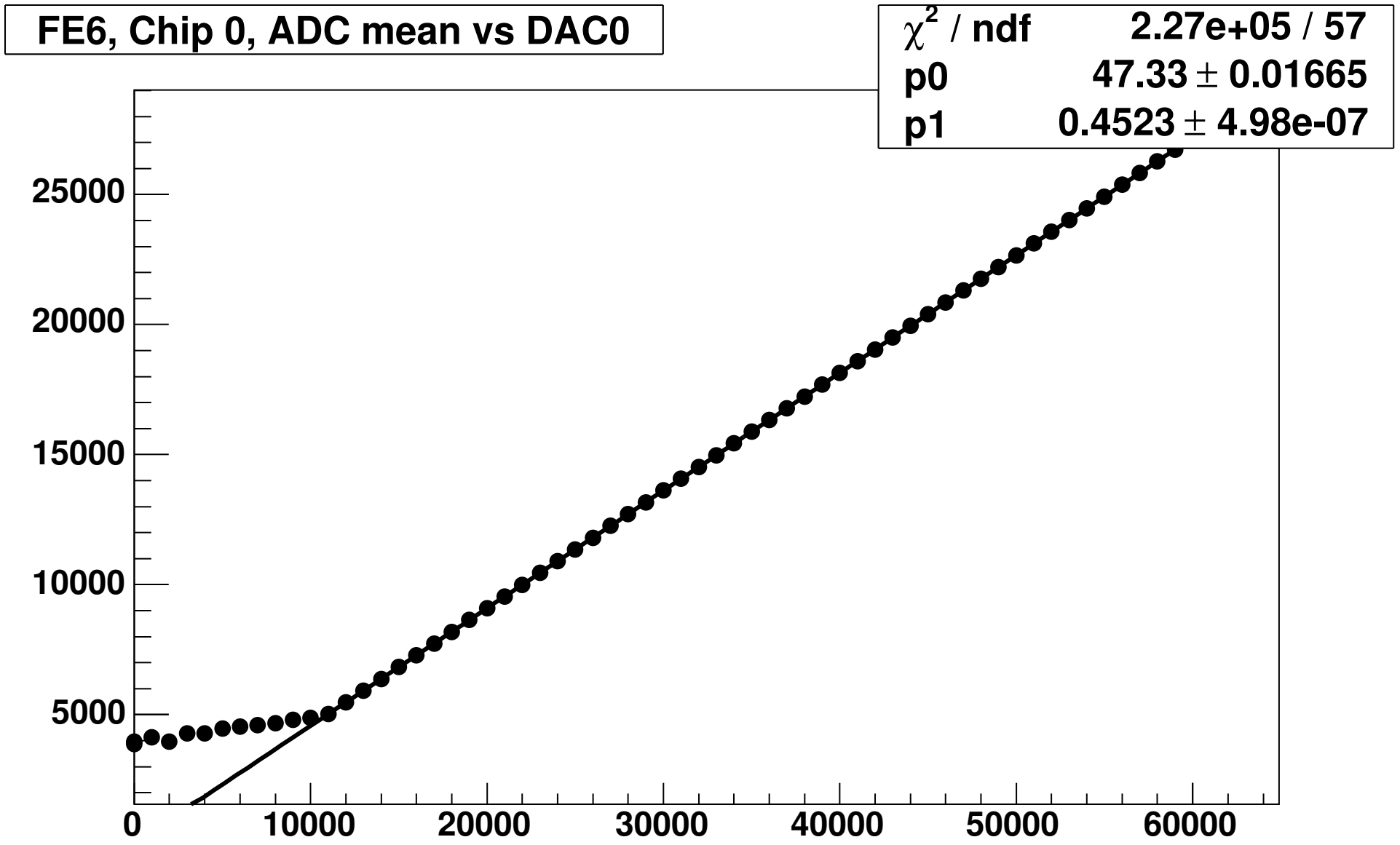
60000


FE5, Chip 11, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE5, Chip 11, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE6, Chip 0, ADC mean vs DAC0
χ² / ndf 2.27e+05 / 57
p0 47.33 ± 0.01665
p1 0.4523 ± 4.98e-07
25000
20000
15000
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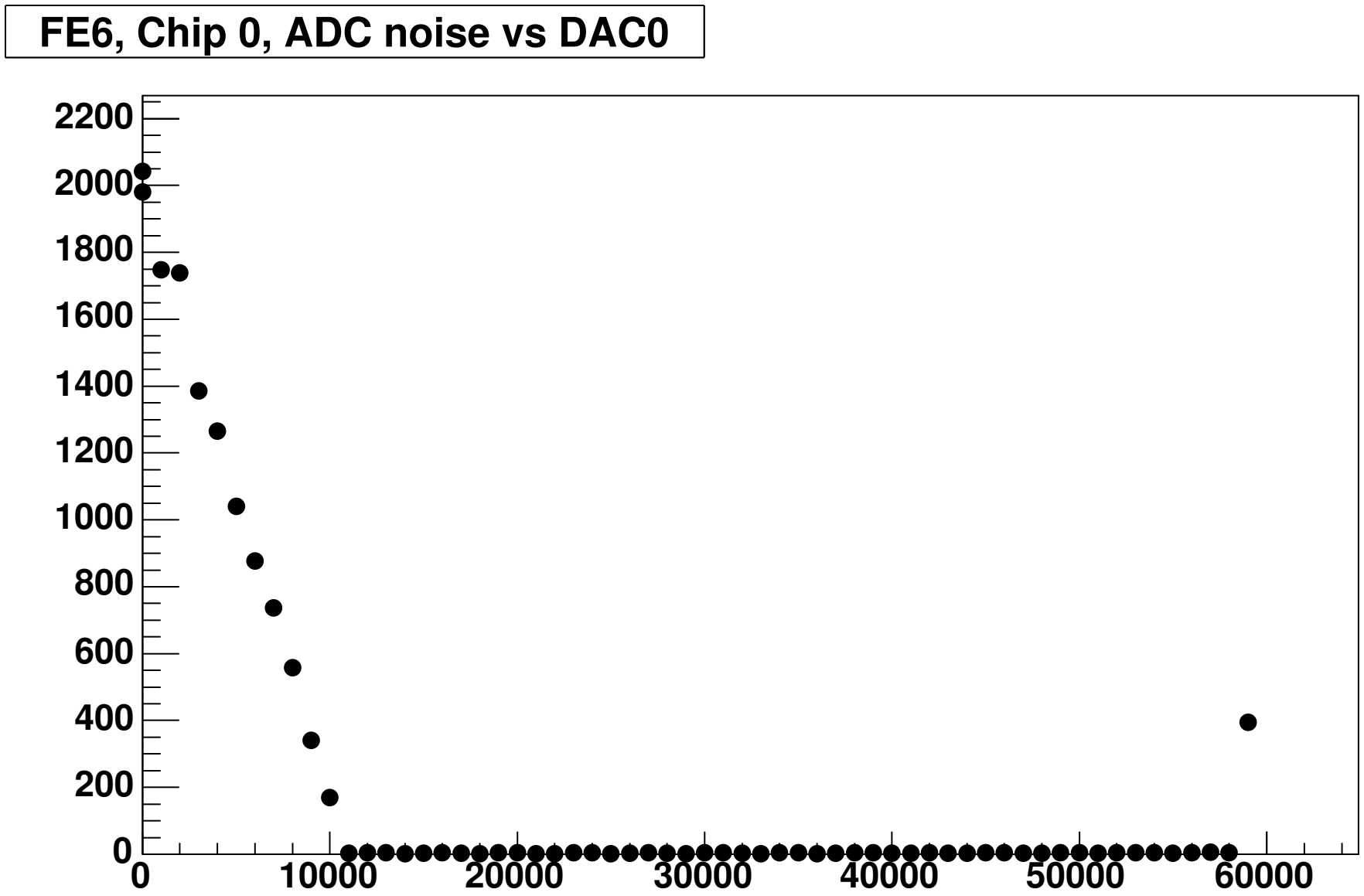
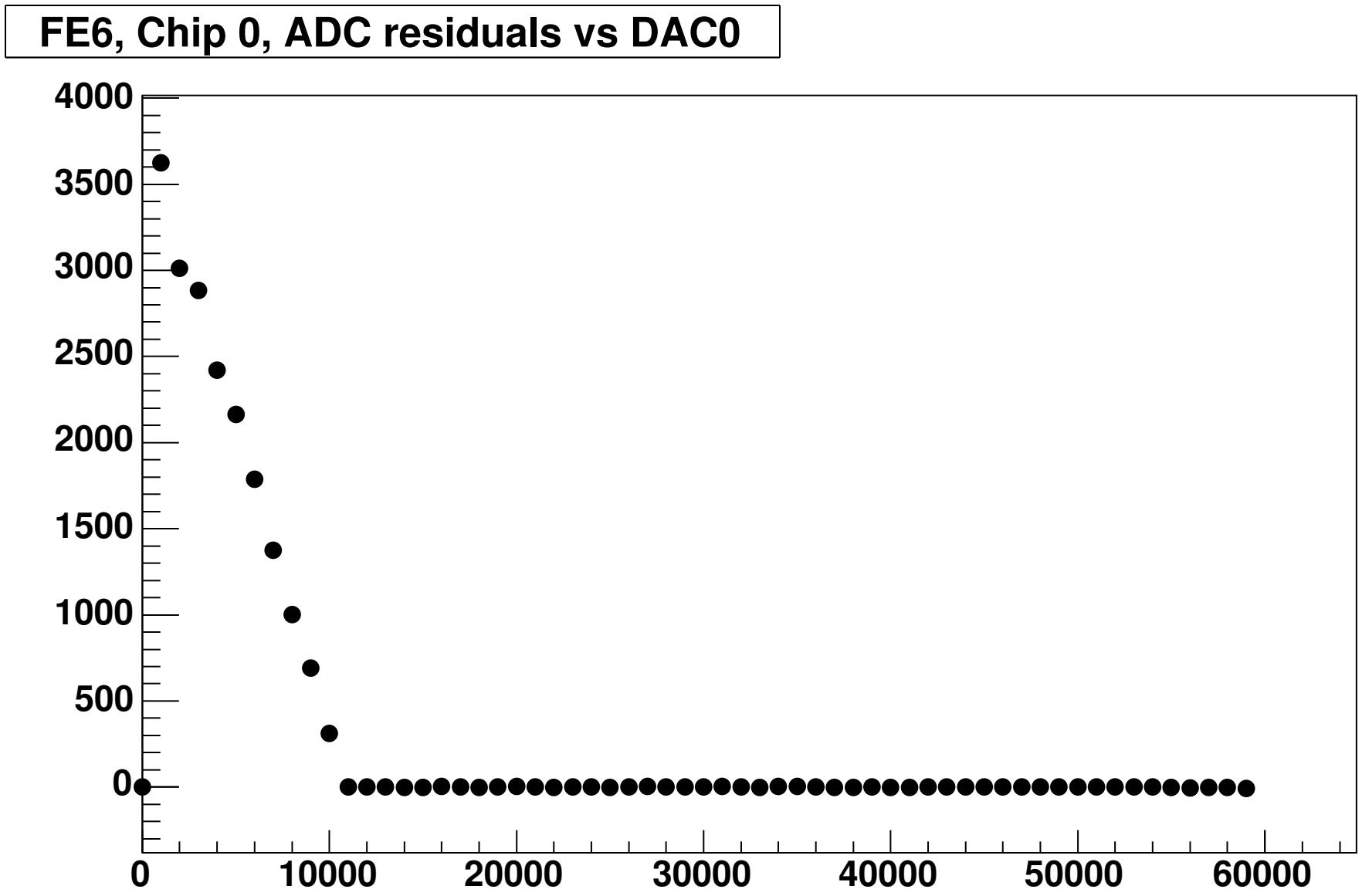
5000
0
10000
20000
30000
40000
50000
60000


FE6, Chip 0, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE6, Chip 0, ADC residuals vs DAC0
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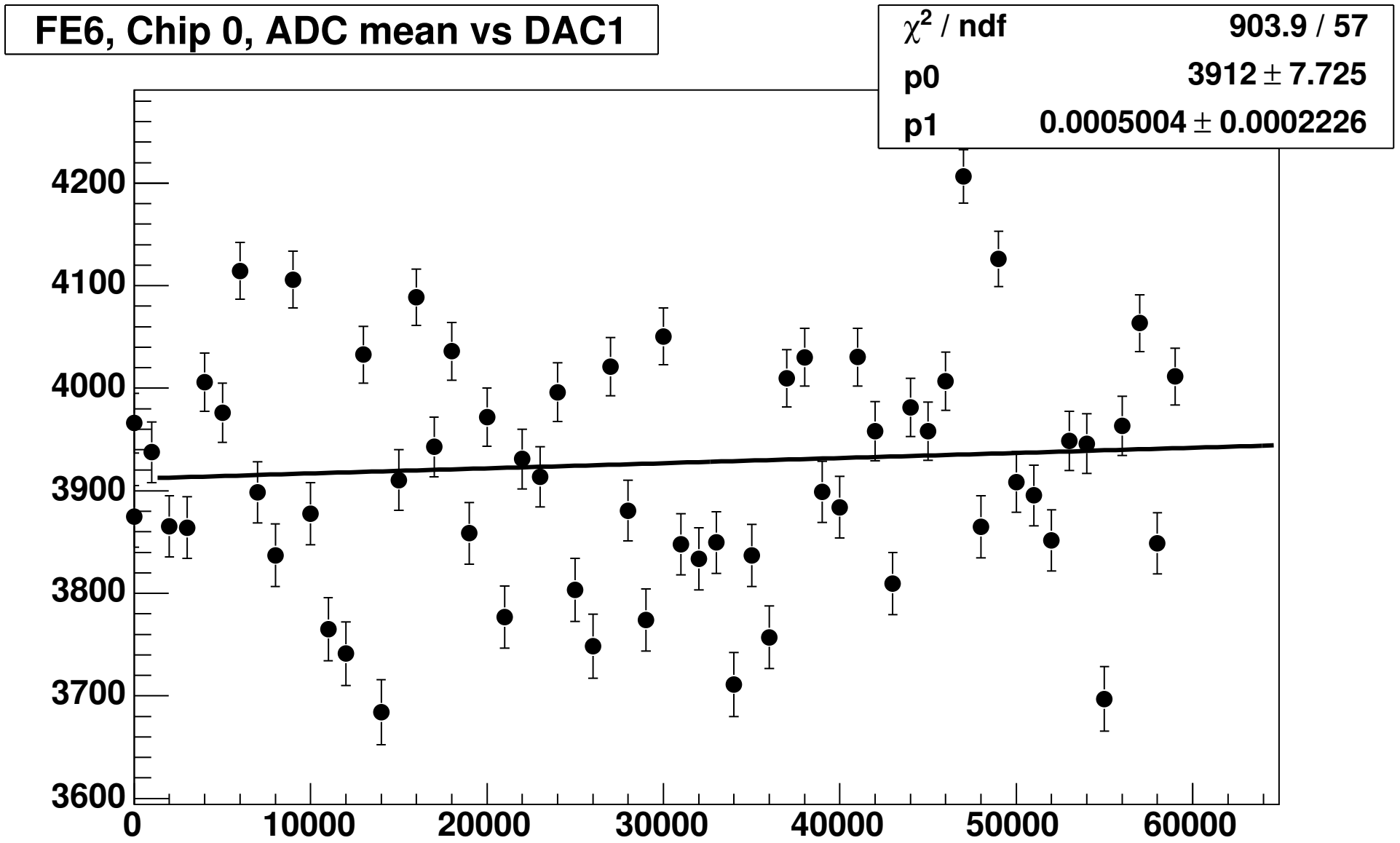
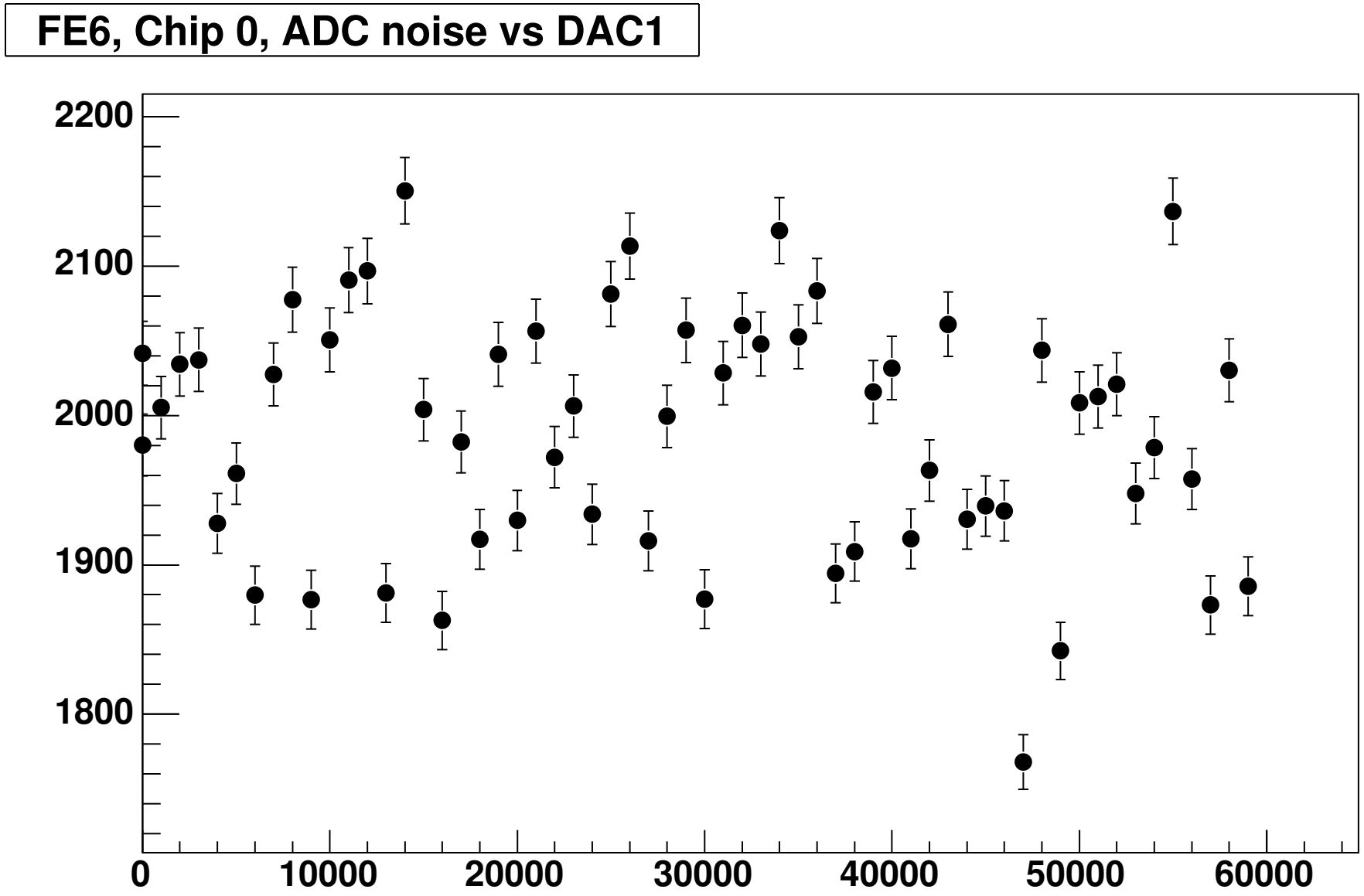
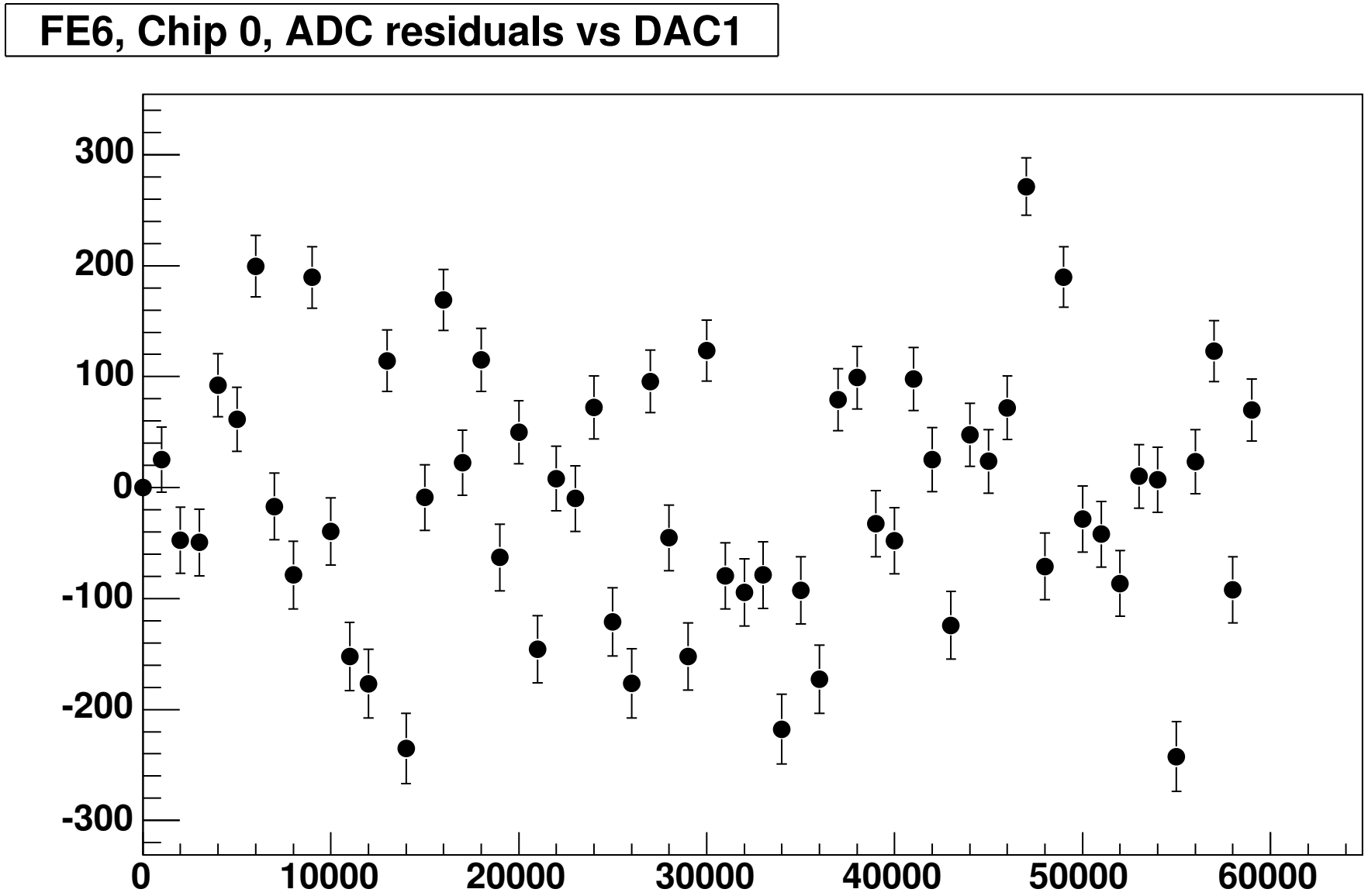
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE6, Chip 0, ADC mean vs DAC1
χ² / ndf 903.9 / 57
p0 3912 ± 7.725
p1 0.0005004 ± 0.0002226
4200
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE6, Chip 0, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE6, Chip 0, ADC residuals vs DAC1
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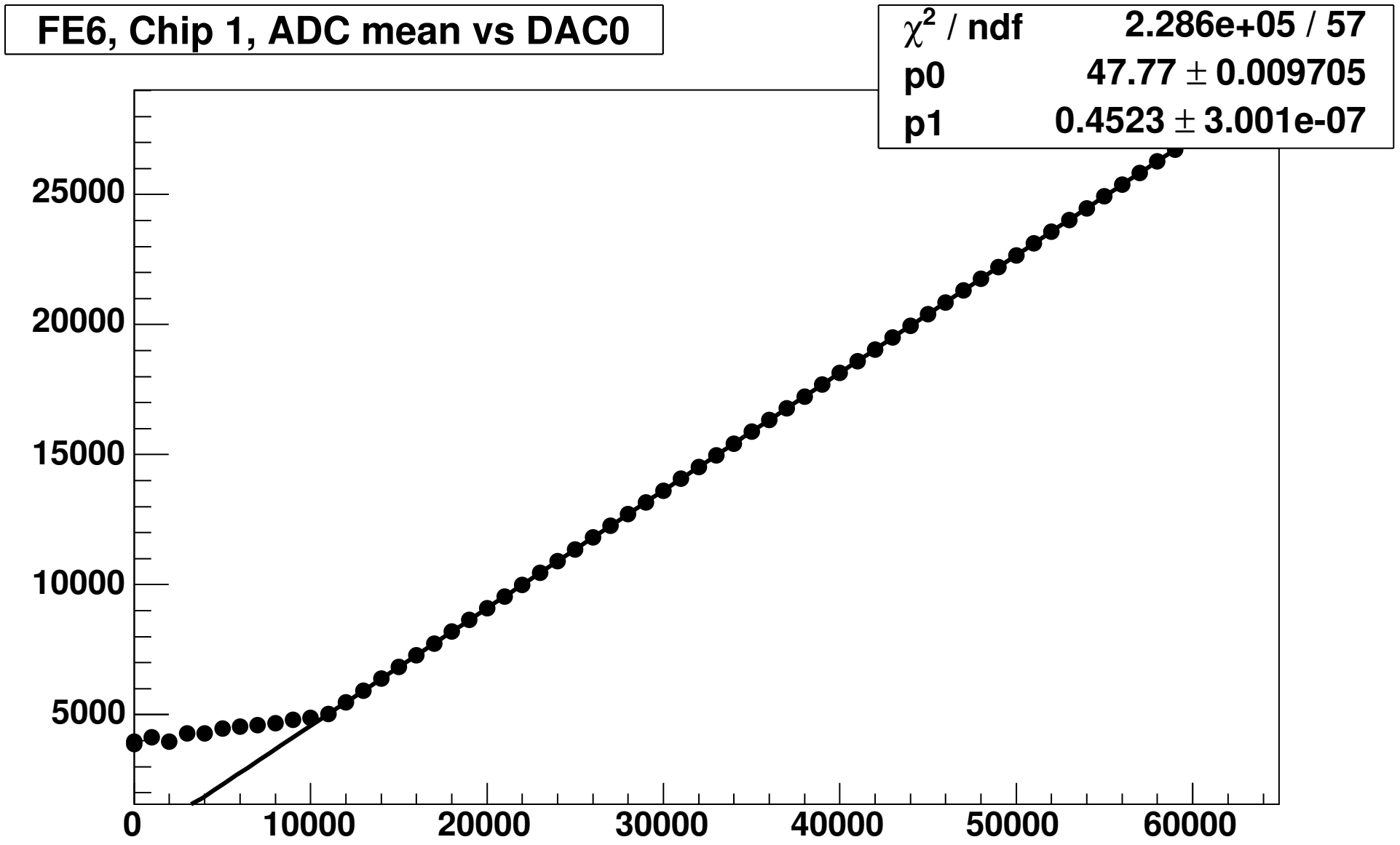
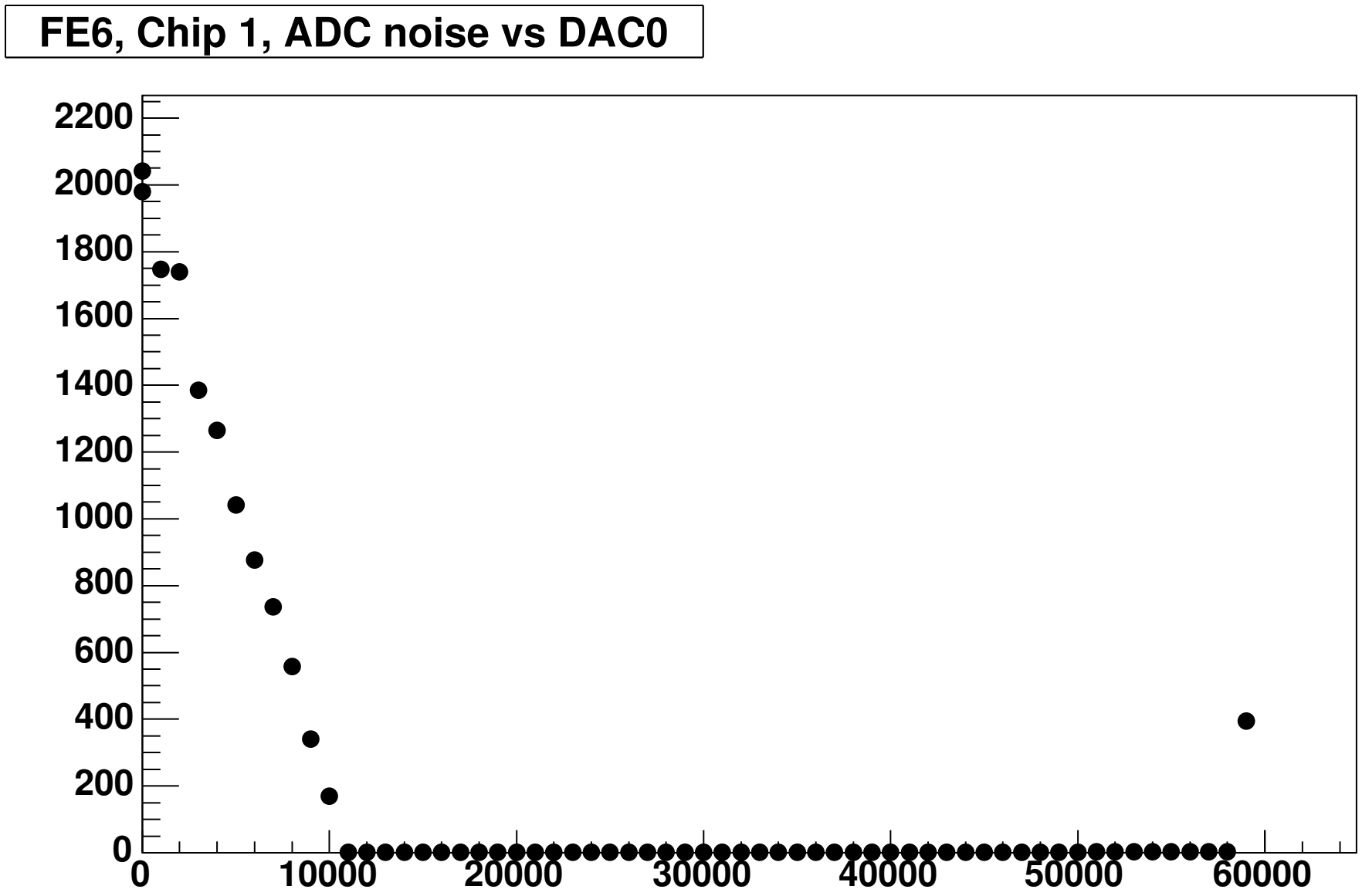
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 1, ADC mean vs DAC0
χ² / ndf 2.286e+05 / 57
p0 47.77 ± 0.009705
p1 0.4523 ± 3.001e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE6, Chip 1, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
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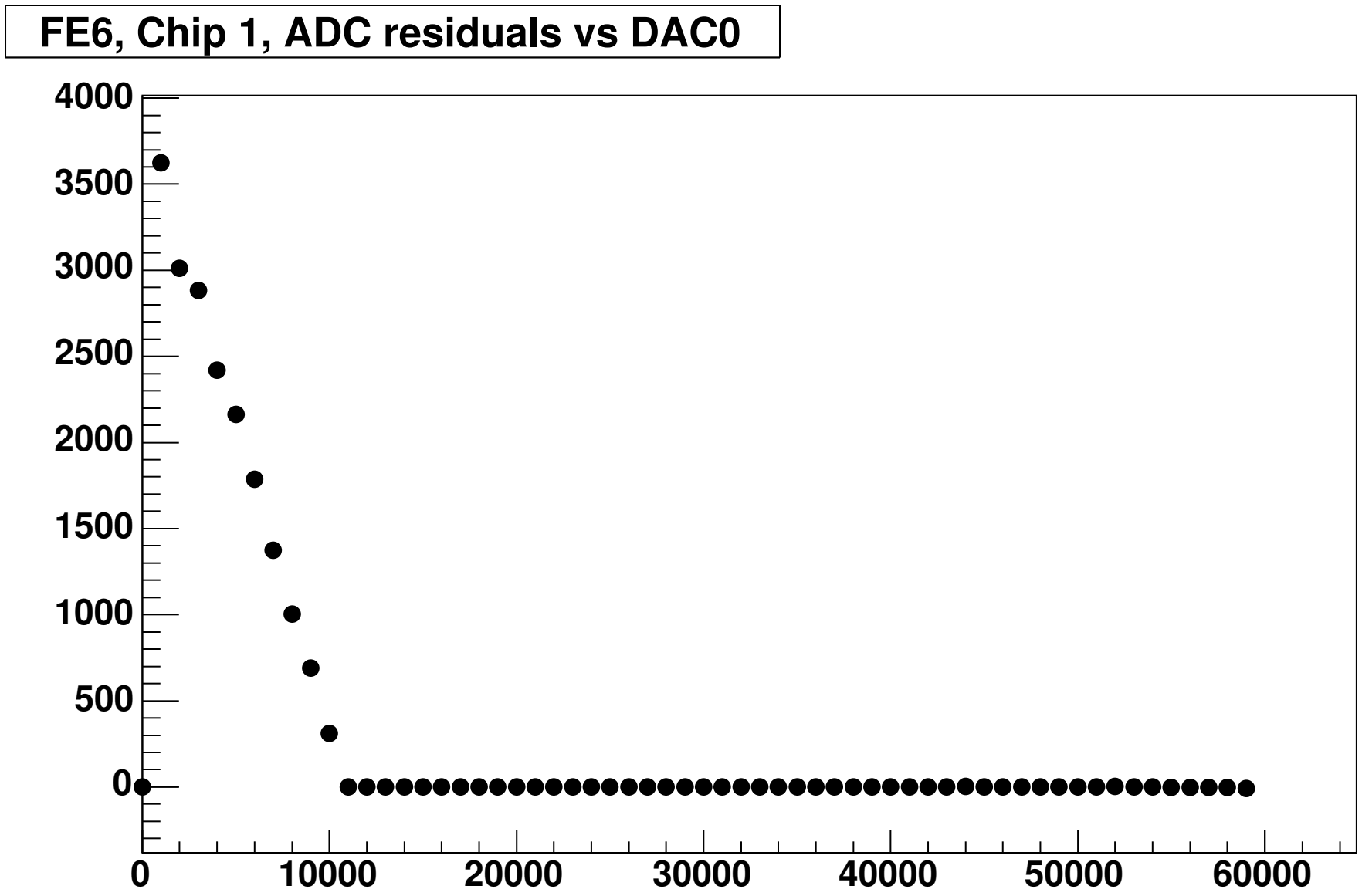
60000


FE6, Chip 1, ADC residuals vs DAC0
4000
3500
3000
2500
2000
1500
1000
500
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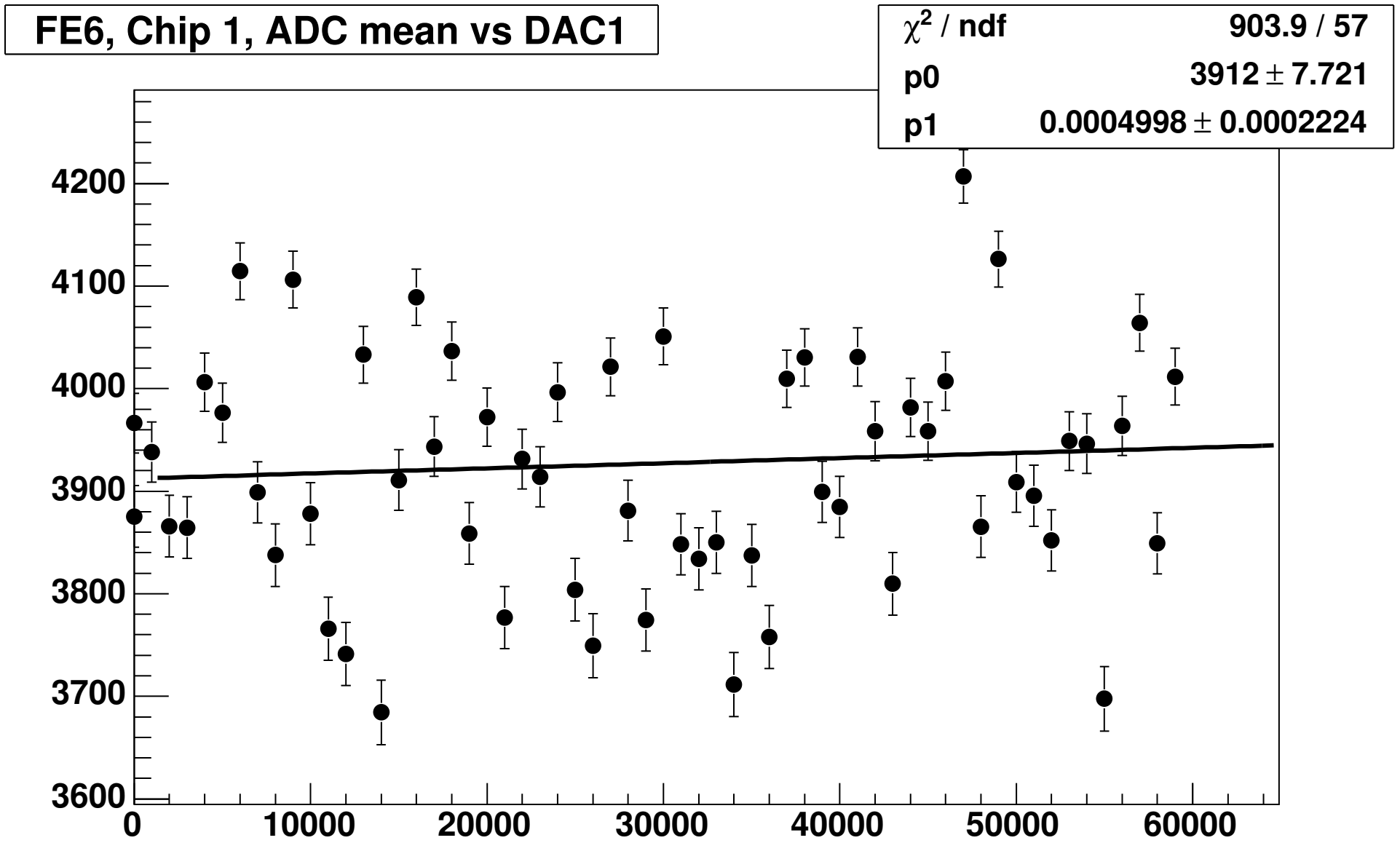
0
10000
20000
30000
40000
50000
60000


FE6, Chip 1, ADC mean vs DAC1
χ² / ndf 903.9 / 57
p0 3912 ± 7.721
p1 0.0004998 ± 0.0002224
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4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
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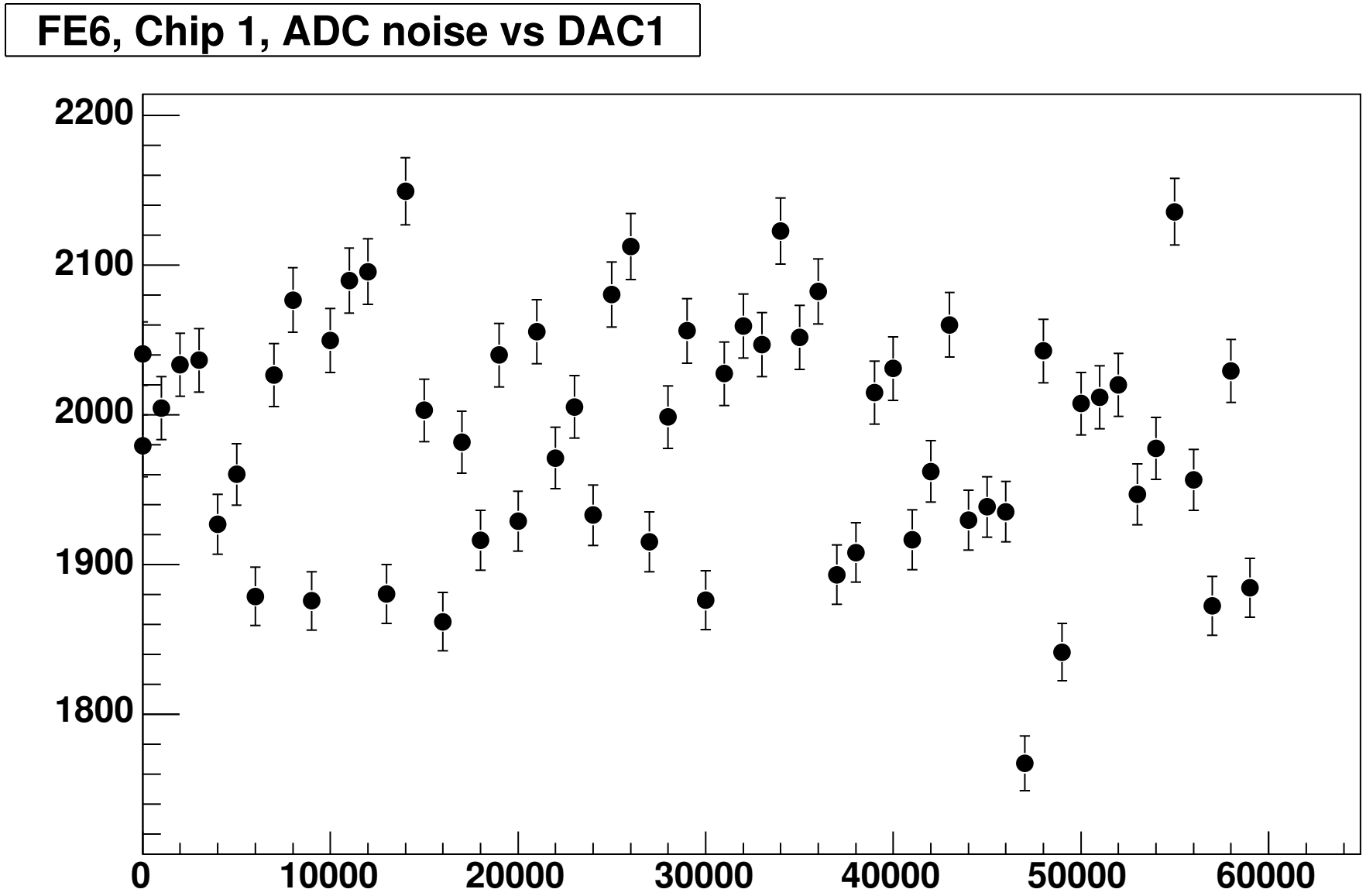
FE6, Chip 1, ADC noise vs DAC1
2200
2100
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1900
1800
0
10000
20000
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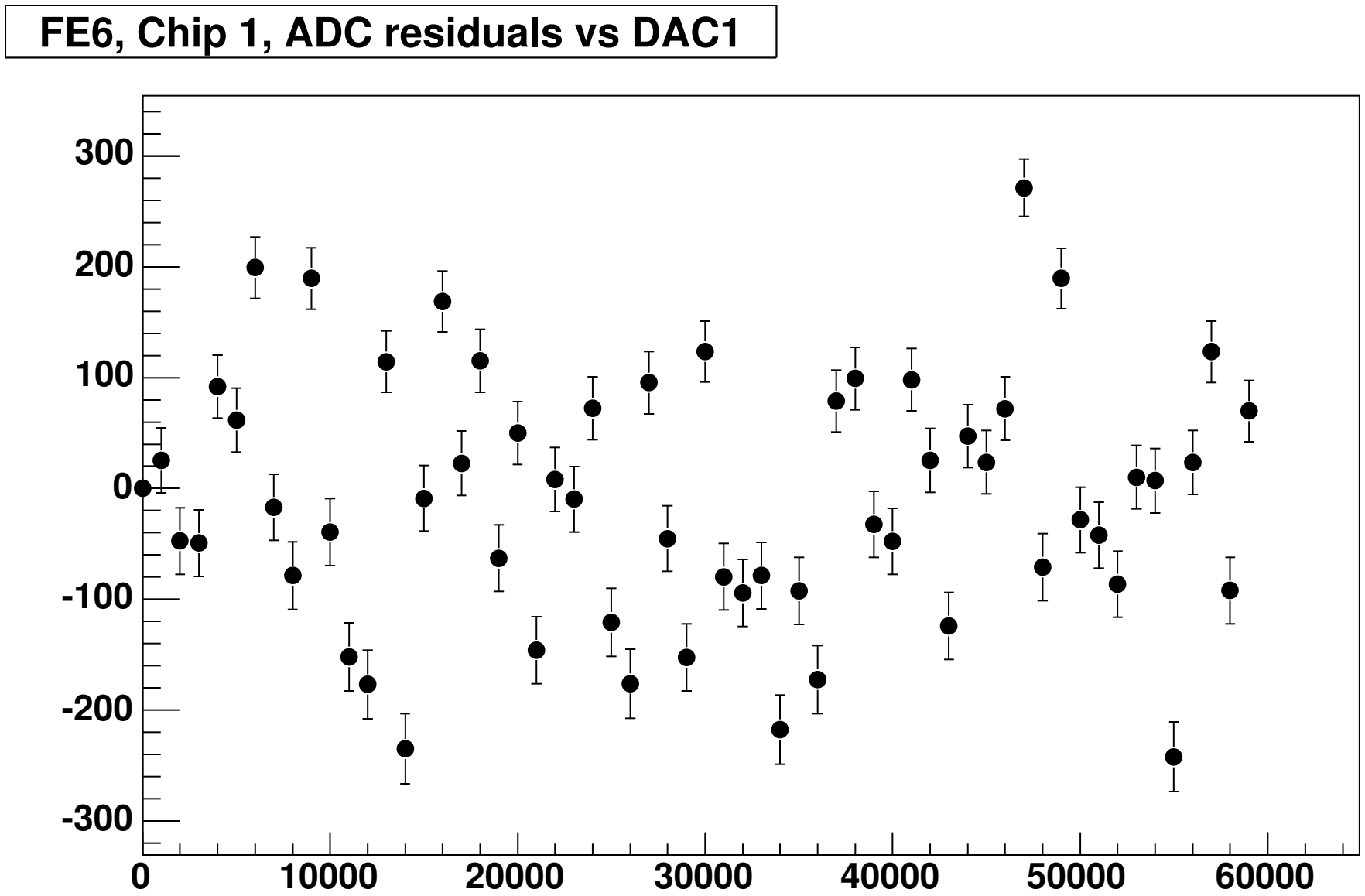
40000
50000
60000


FE6, Chip 1, ADC residuals vs DAC1
300
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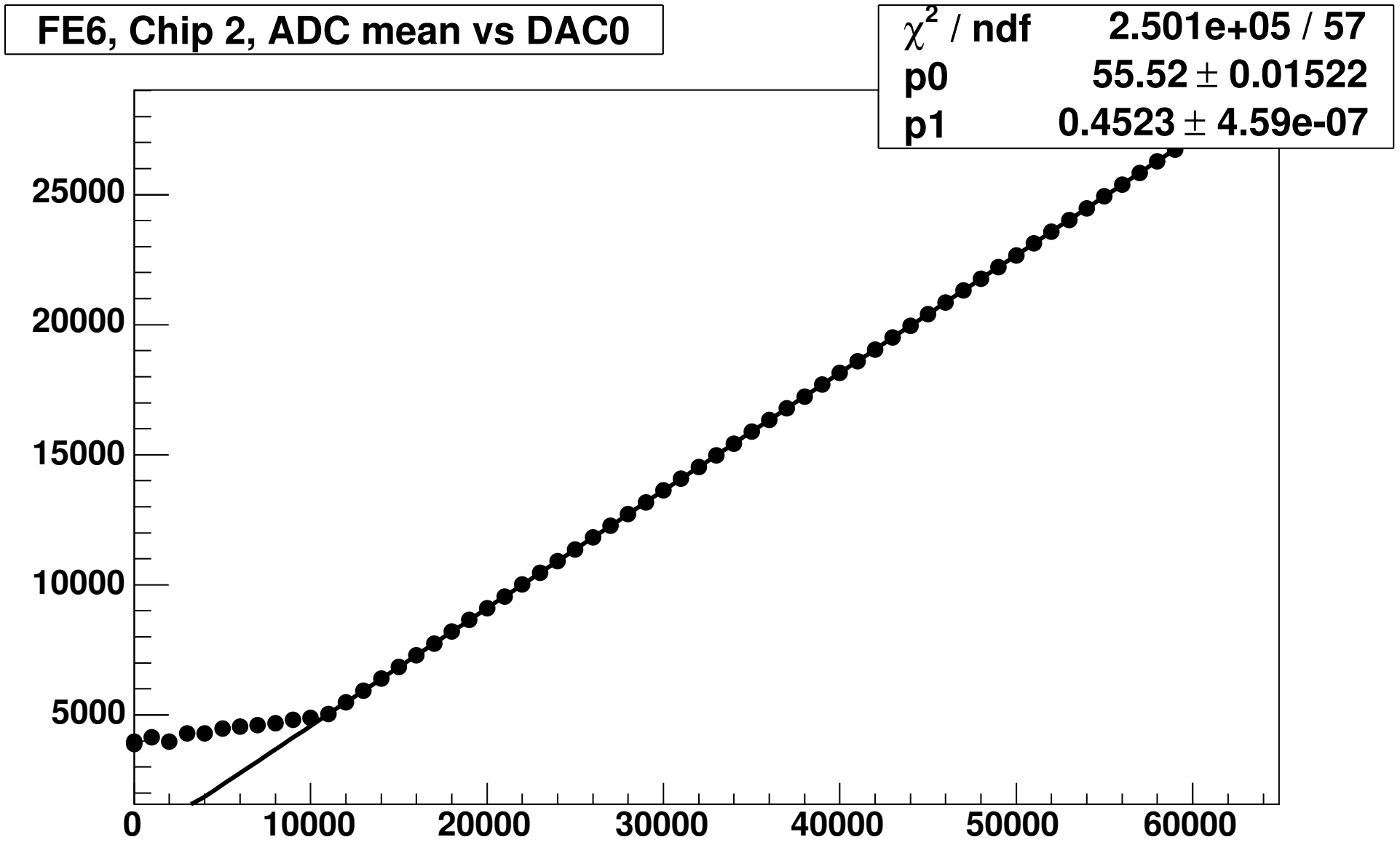
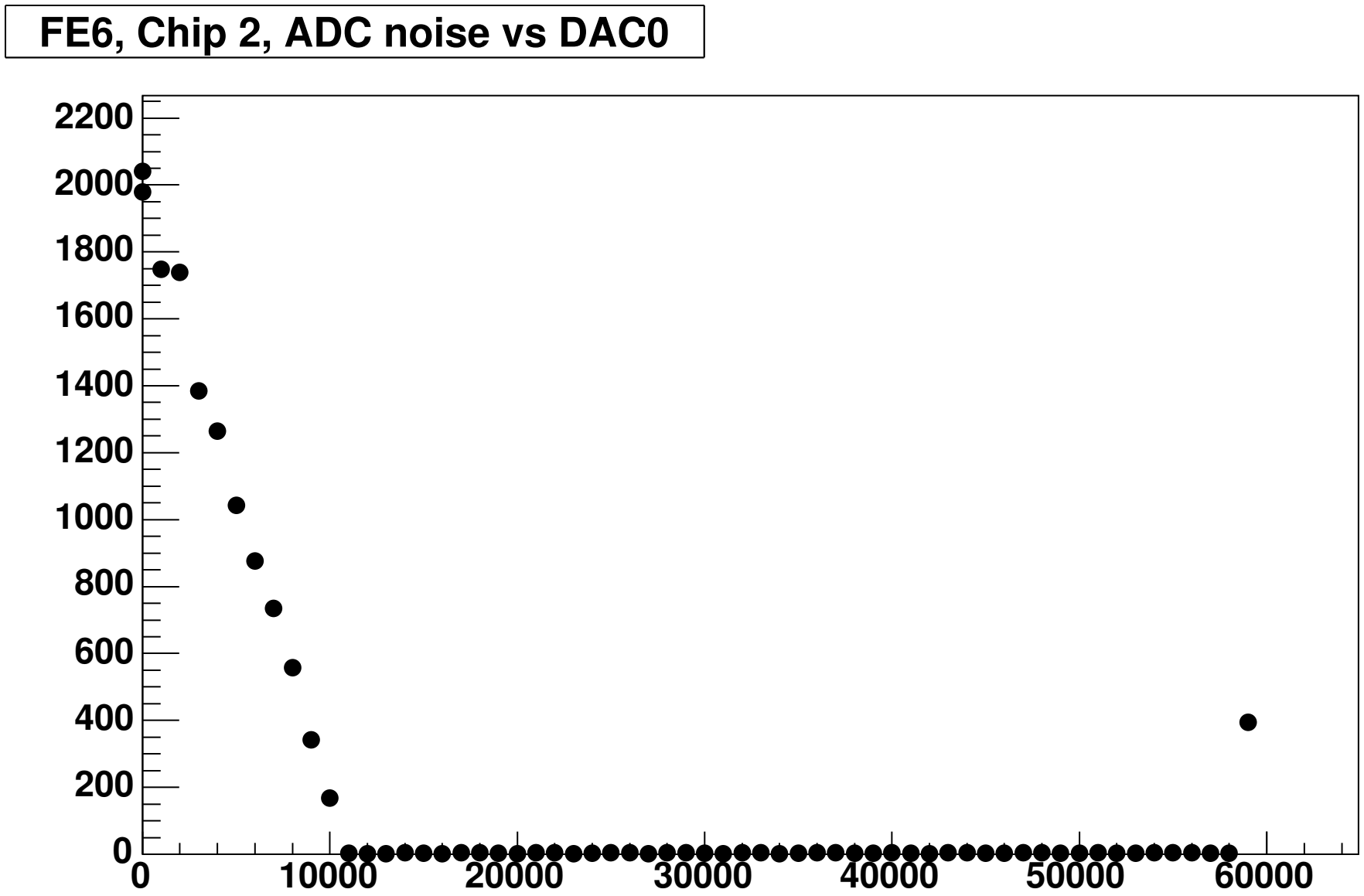
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 2, ADC mean vs DAC0
χ² / ndf 2.501e+05 / 57
p0 55.52 ± 0.01522
p1 0.4523 ± 4.59e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE6, Chip 2, ADC noise vs DAC0
2200
2000
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1400
1200
1000
800
600
400
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0
10000
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30000
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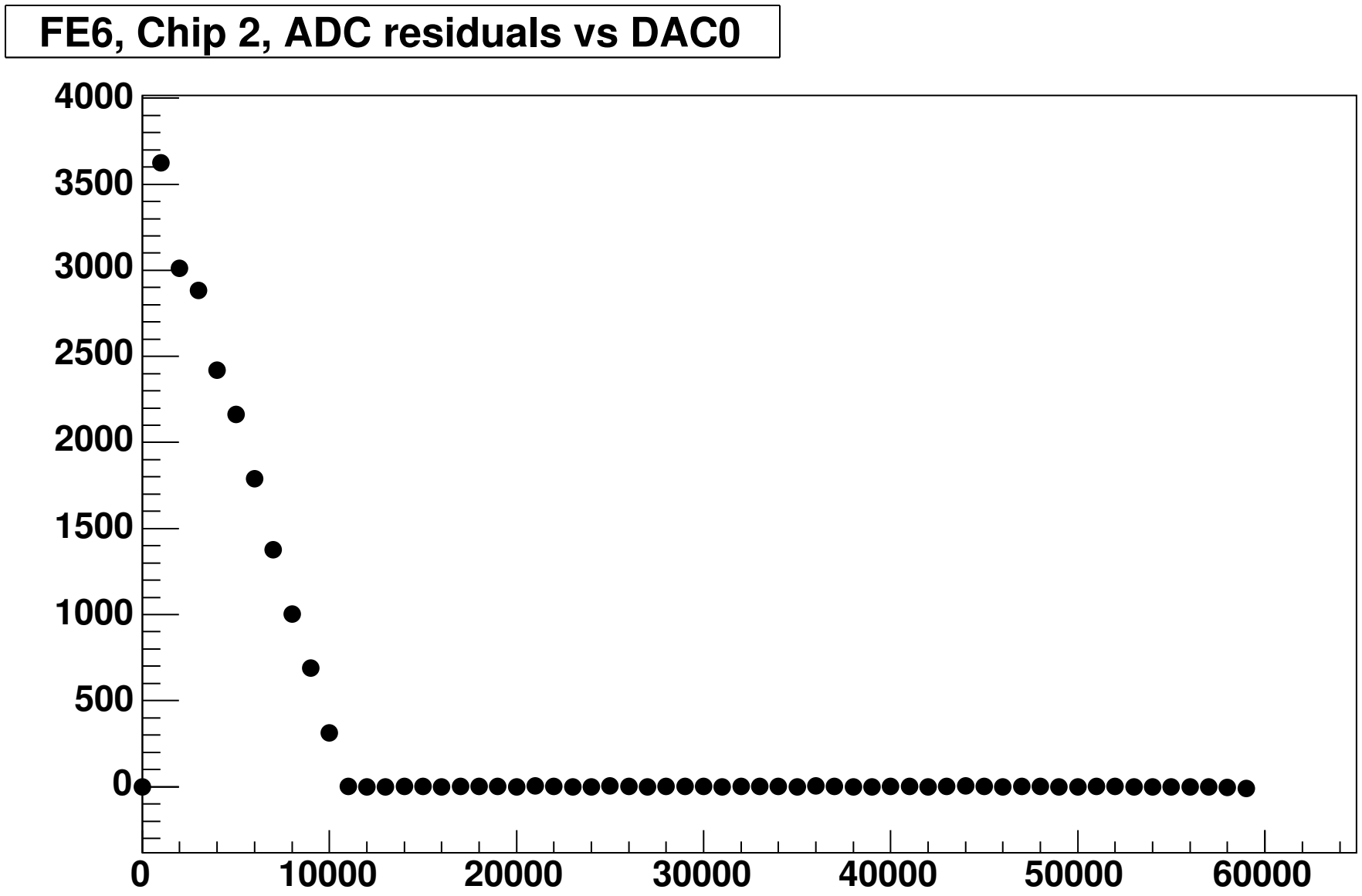
FE6, Chip 2, ADC residuals vs DAC0
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3500
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2500
2000
1500
1000
500
0
0
10000
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30000
40000
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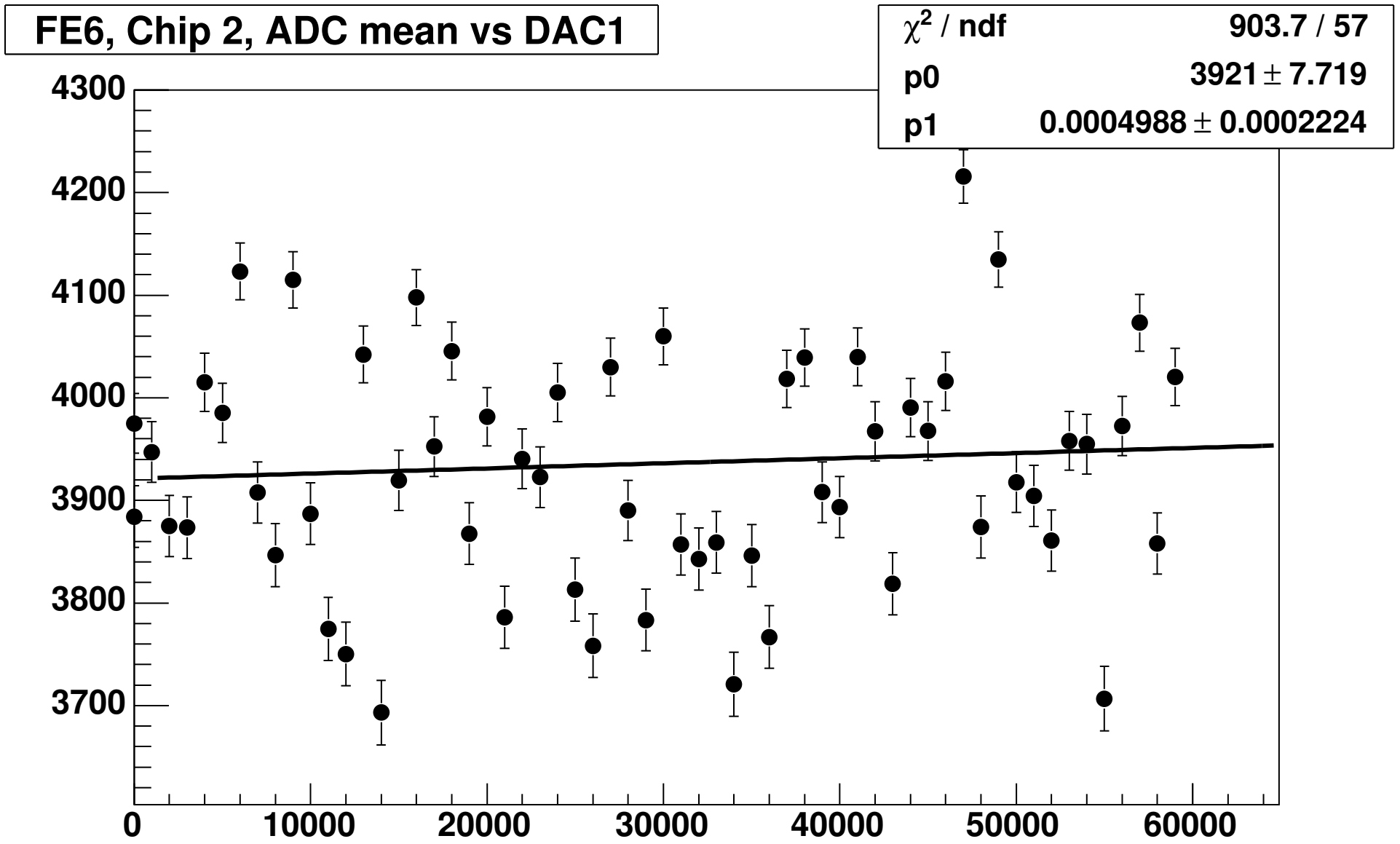
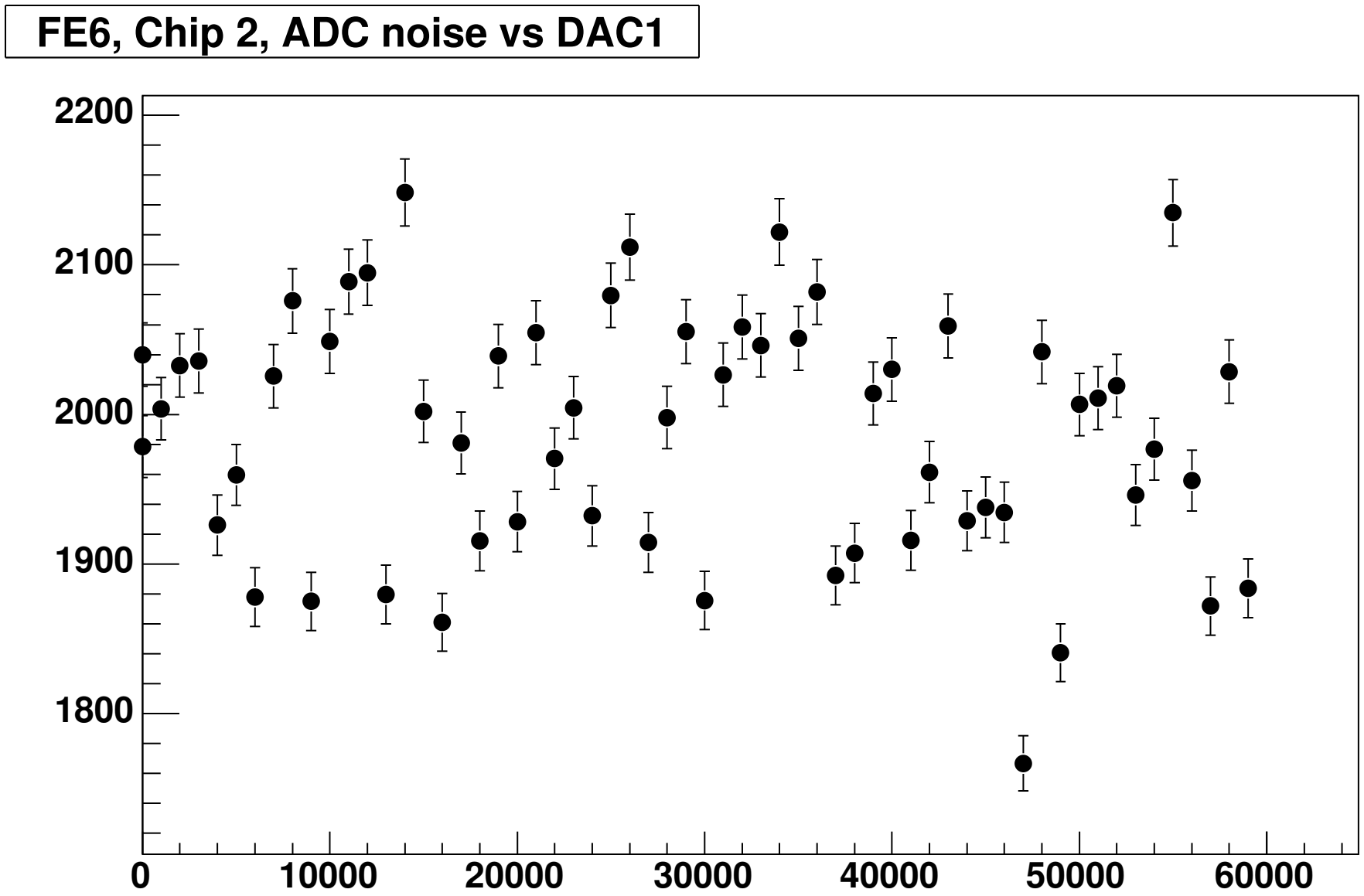
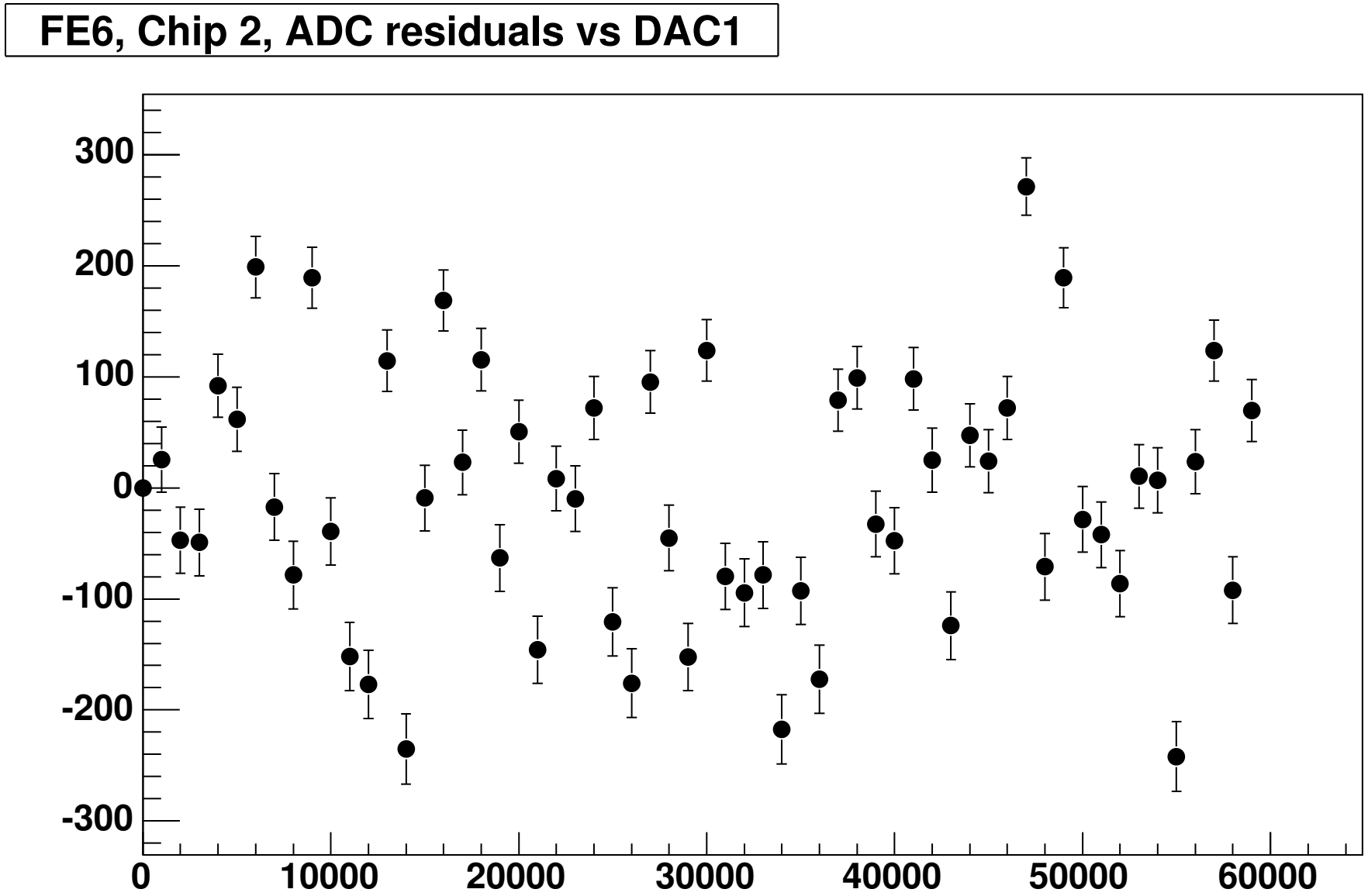
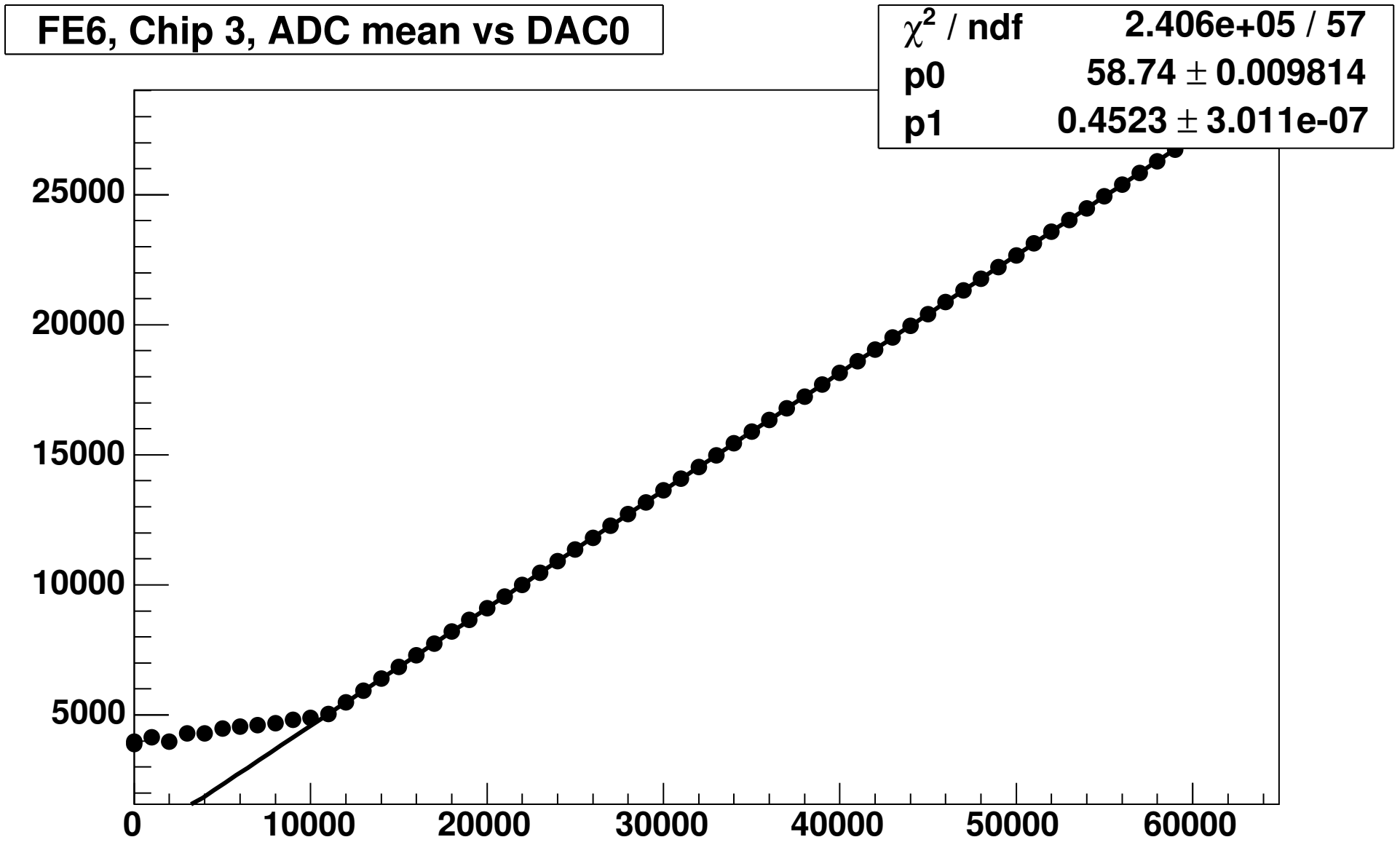
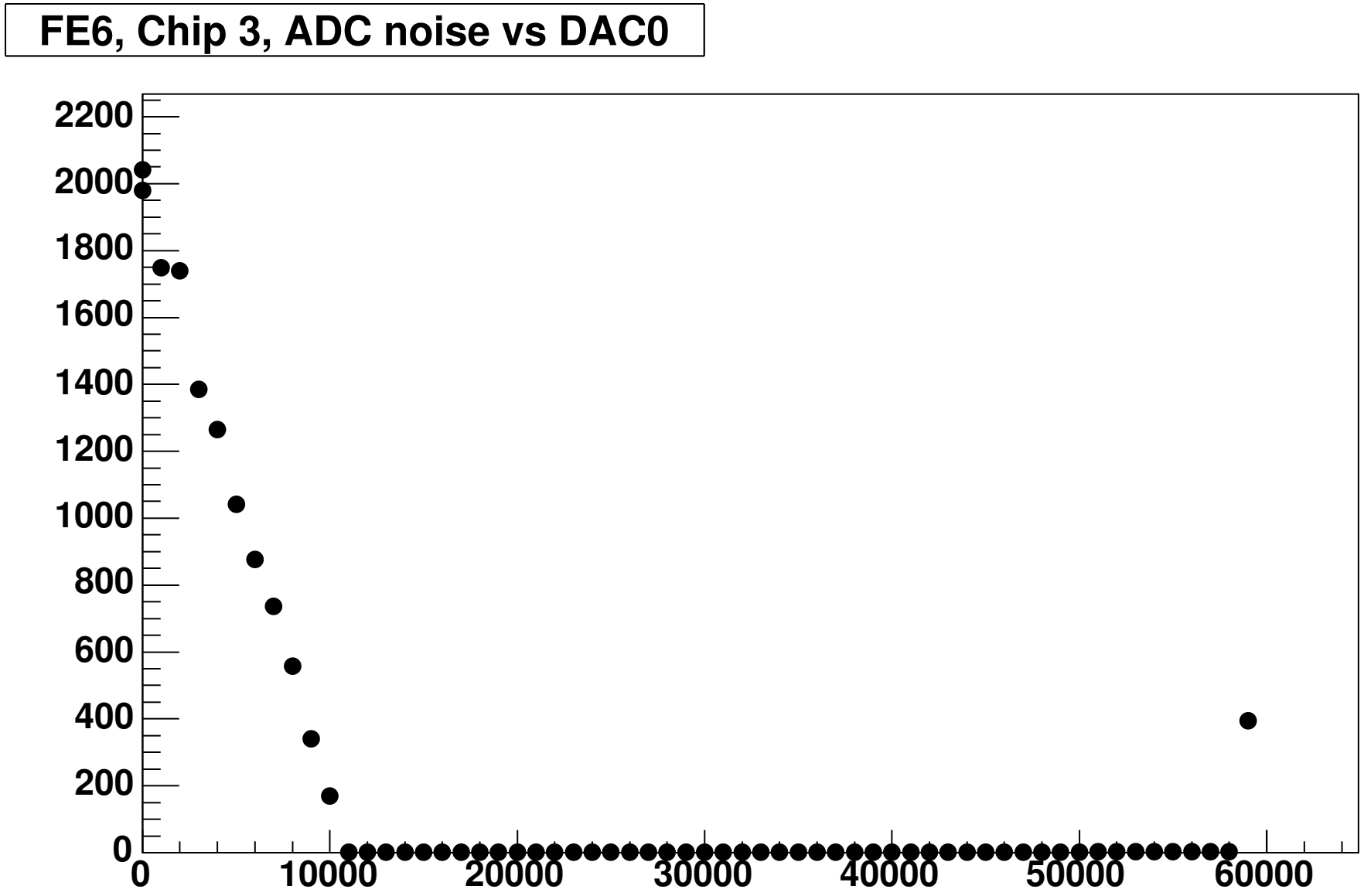
60000

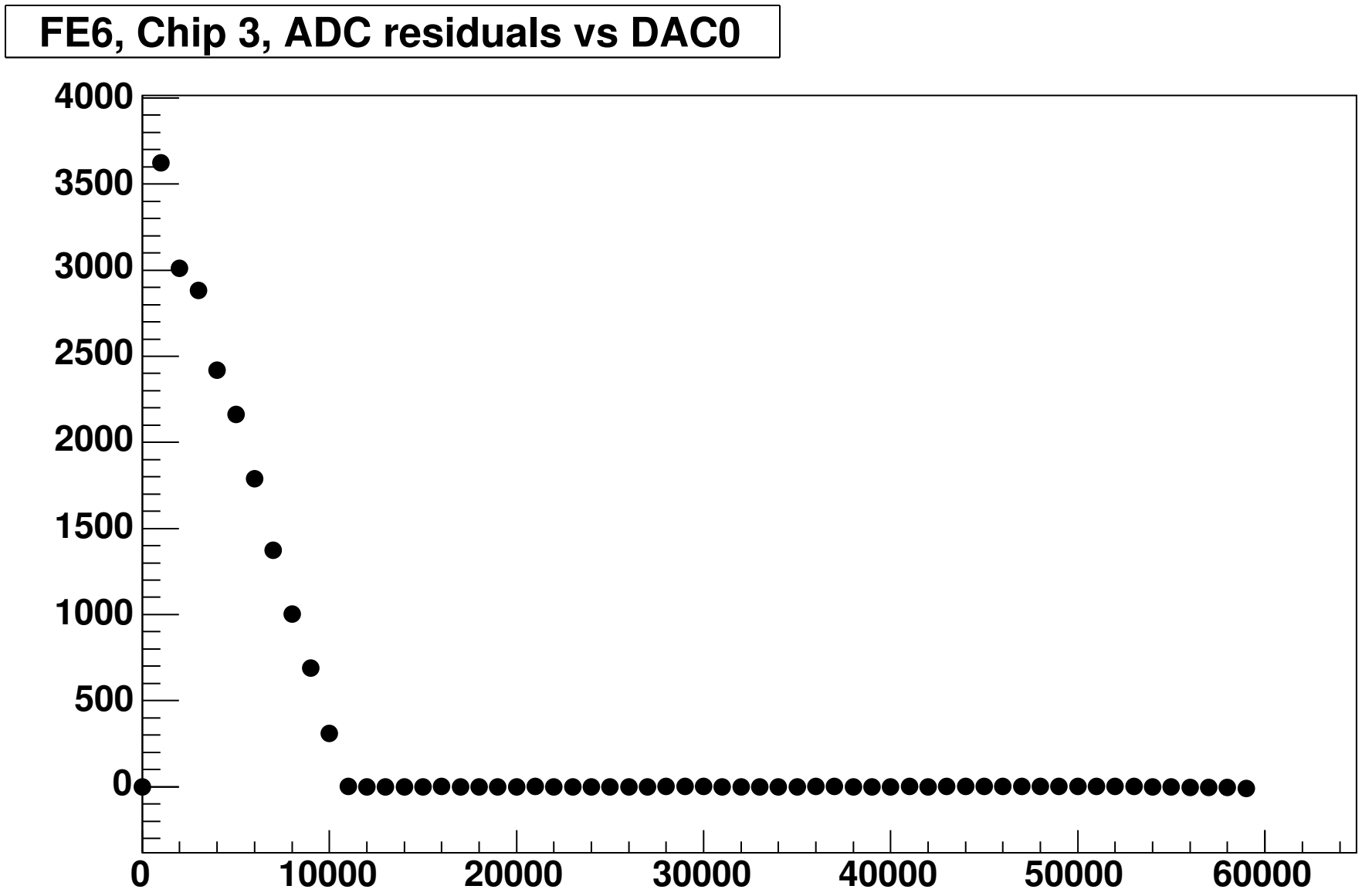

FE6, Chip 2, ADC mean vs DAC1
χ² / ndf 903.7 / 57
p0 3921 ± 7.719
p1 0.0004988 ± 0.0002224
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE6, Chip 2, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE6, Chip 2, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 3, ADC mean vs DAC0
χ² / ndf 2.406e+05 / 57
p0 58.74 ± 0.009814
p1 0.4523 ± 3.011e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE6, Chip 3, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE6, Chip 3, ADC residuals vs DAC0
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3500
3000
2500
2000
1500
1000
500
0
0
10000
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30000
40000
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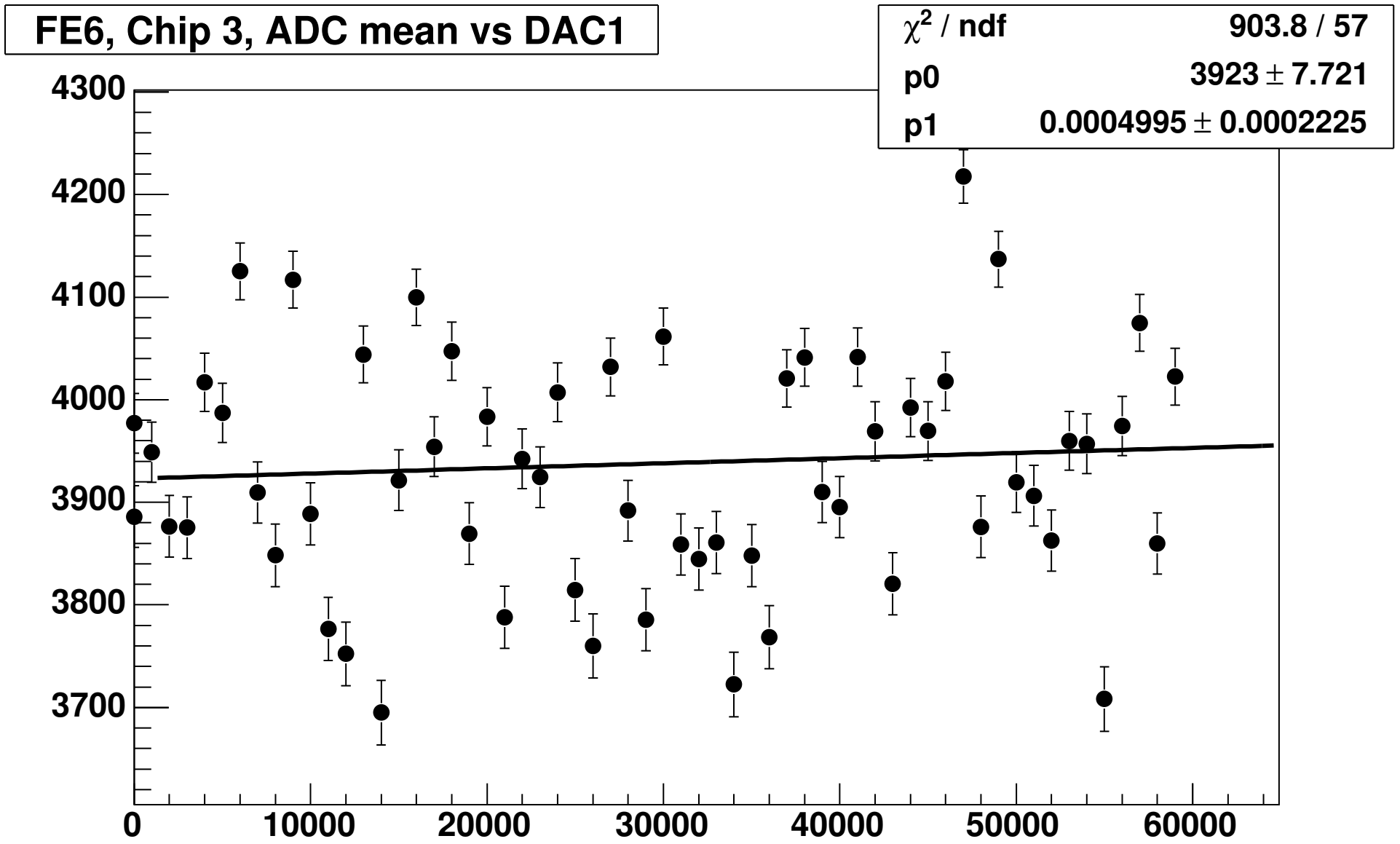
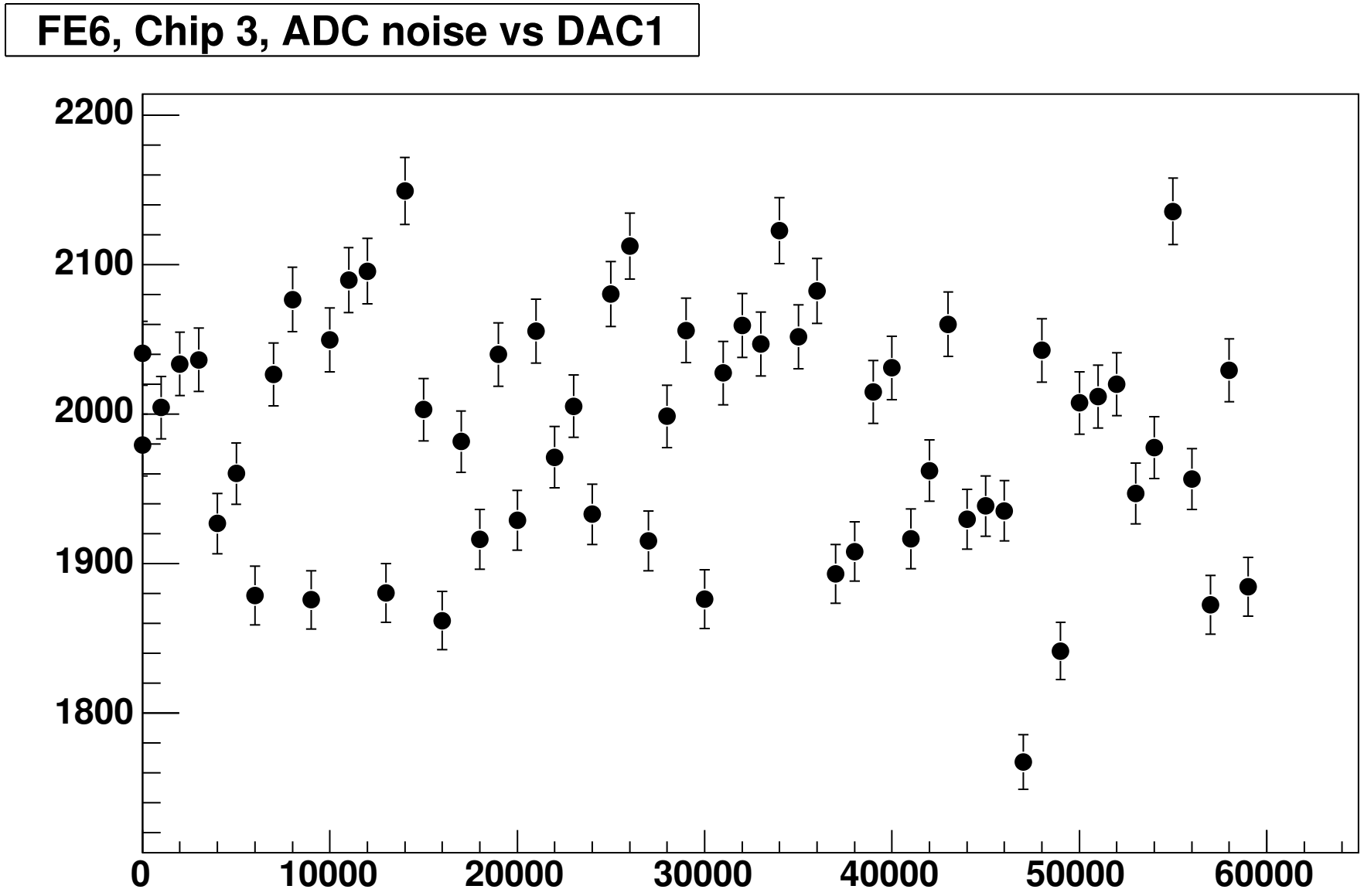
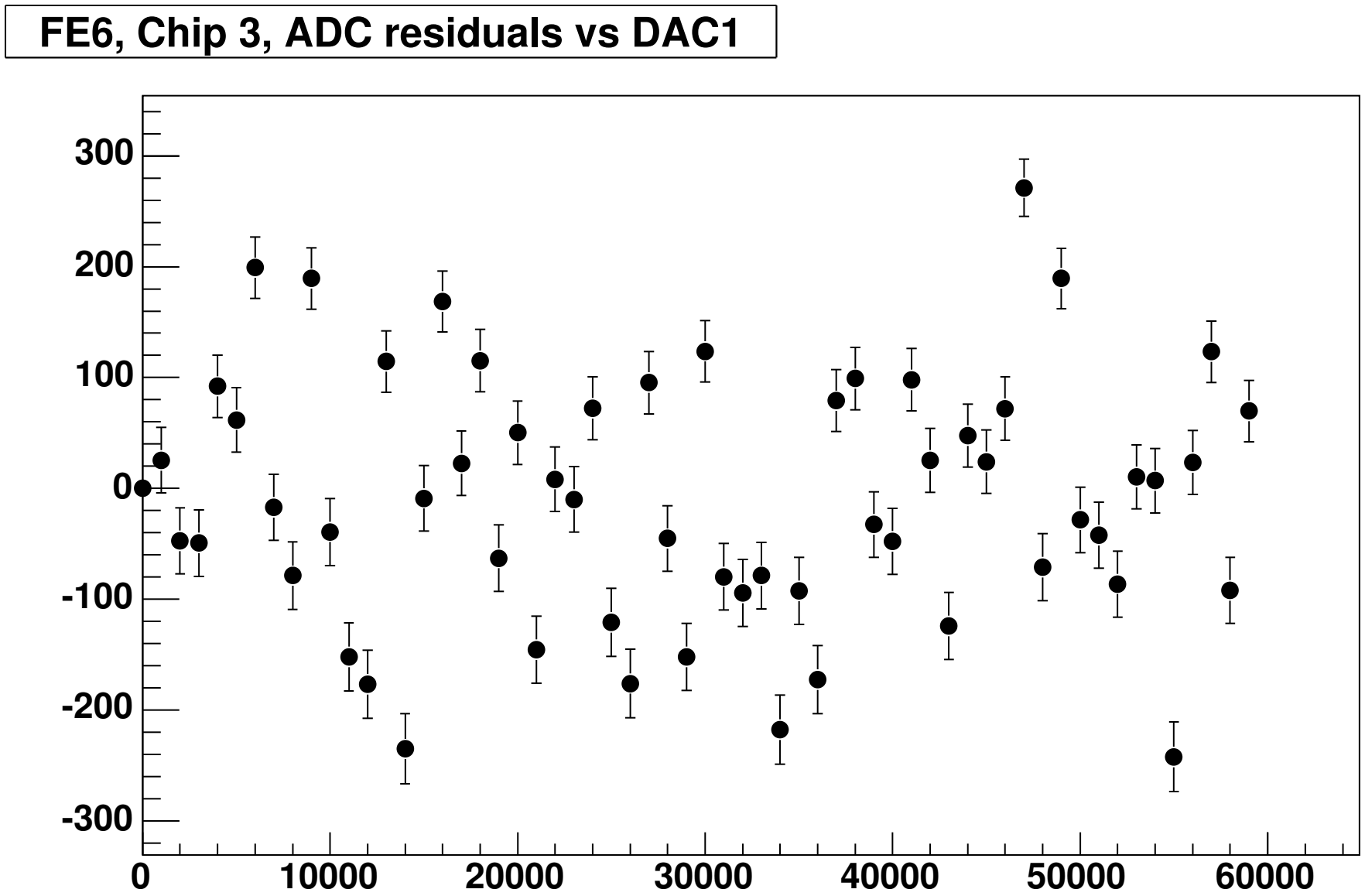
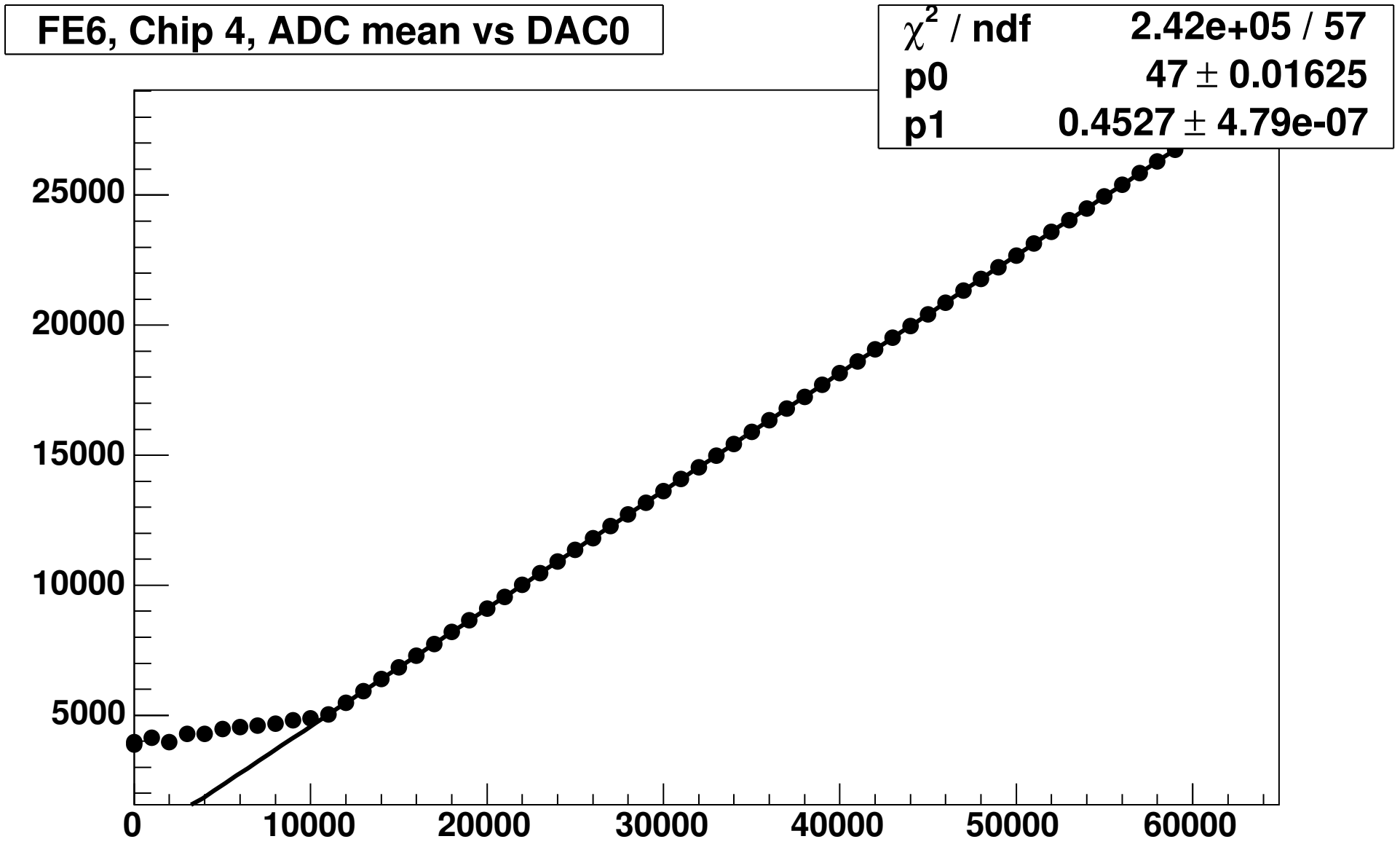
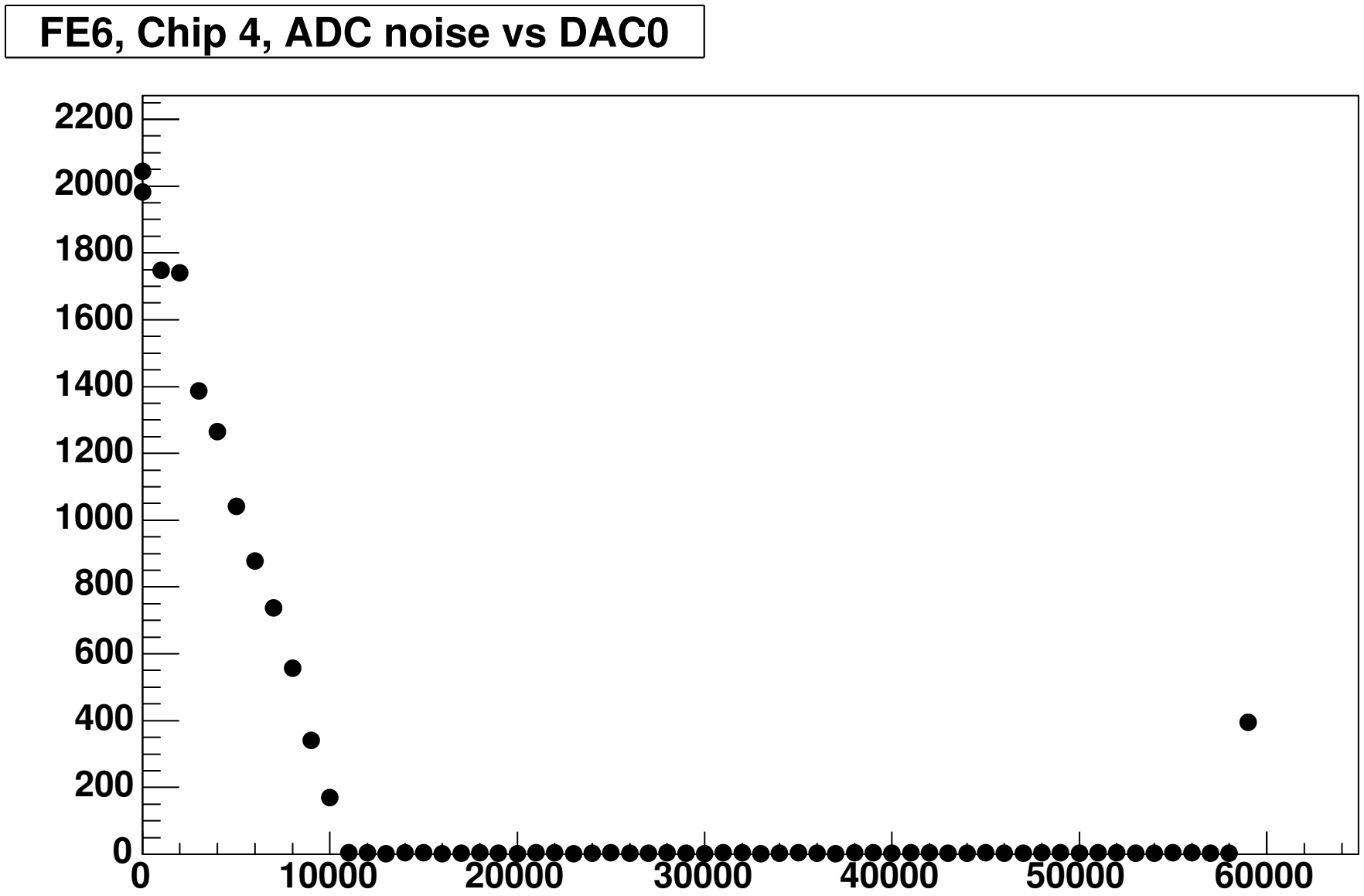
60000

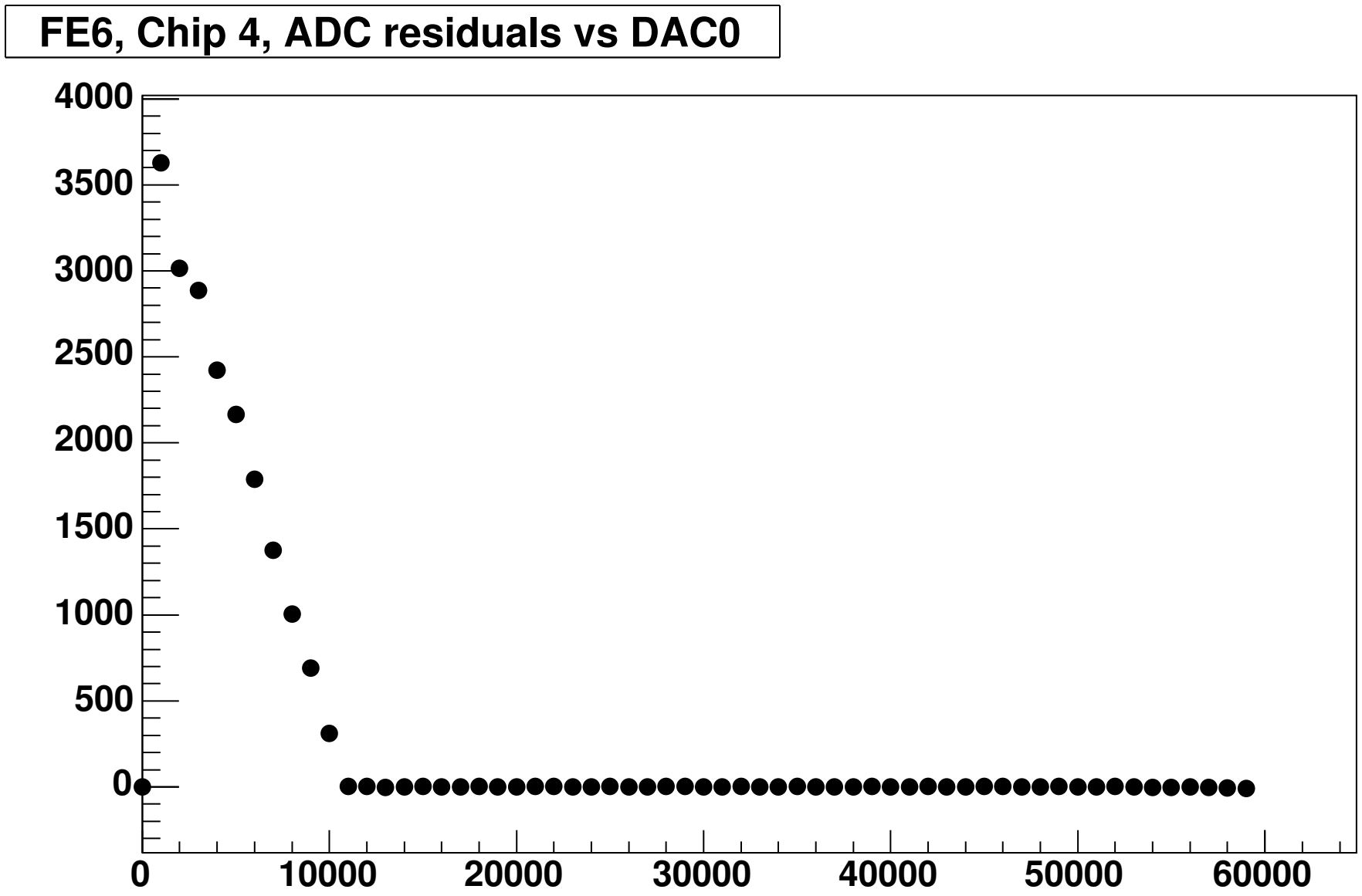

FE6, Chip 3, ADC mean vs DAC1
χ² / ndf 903.8 / 57
p0 3923 ± 7.721
p1 0.0004995 ± 0.0002225
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000

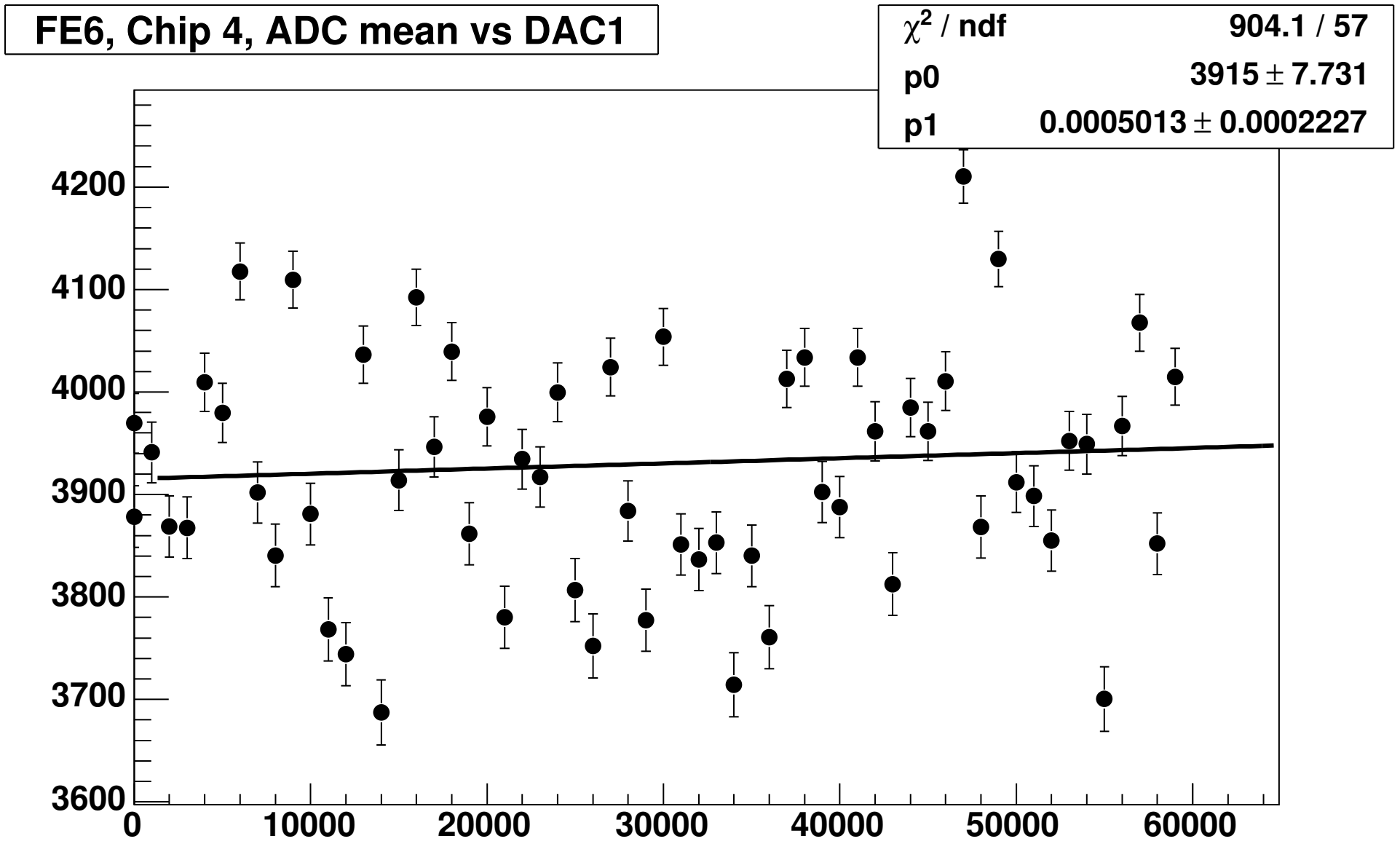

FE6, Chip 3, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000

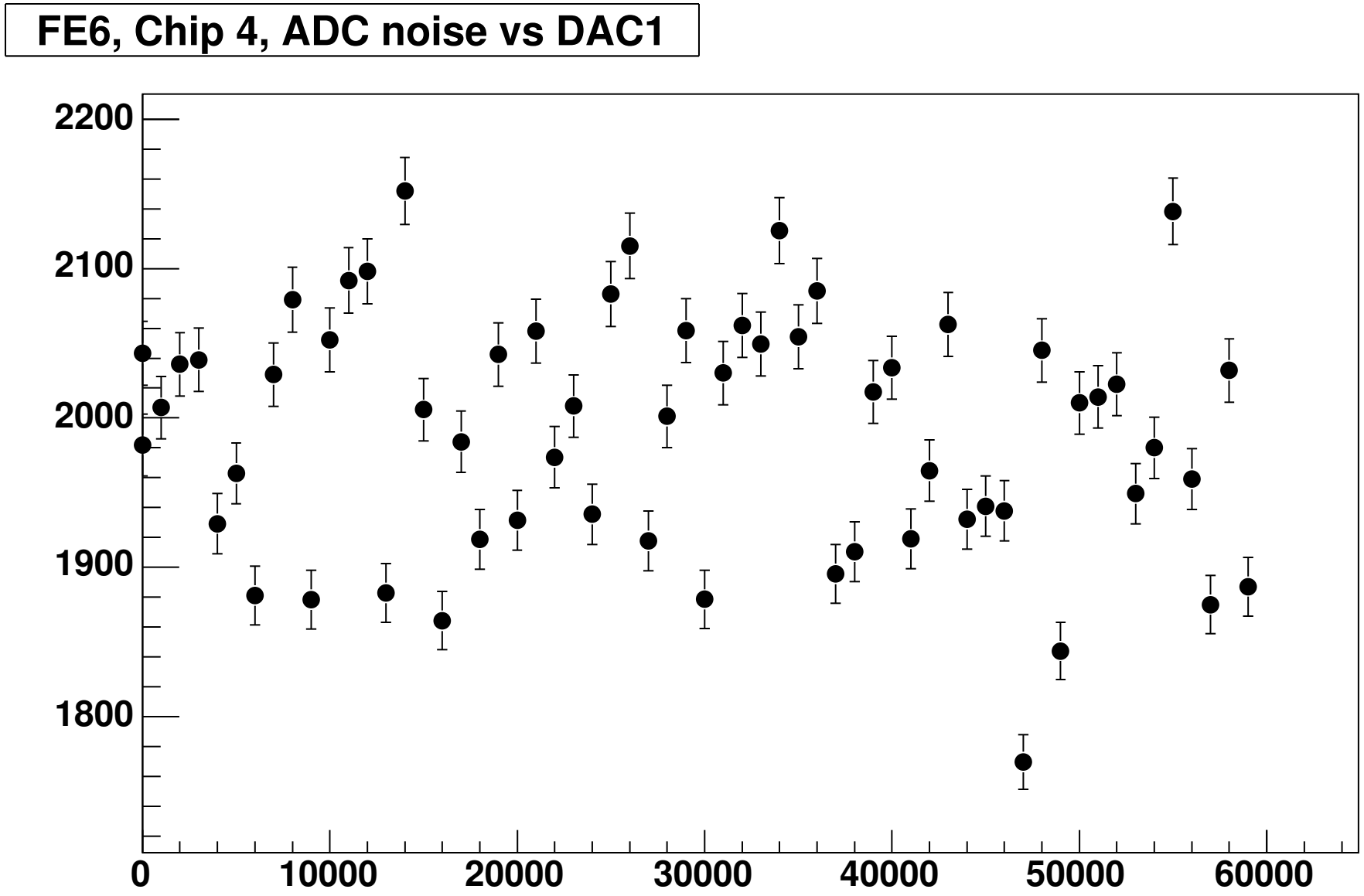

FE6, Chip 3, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

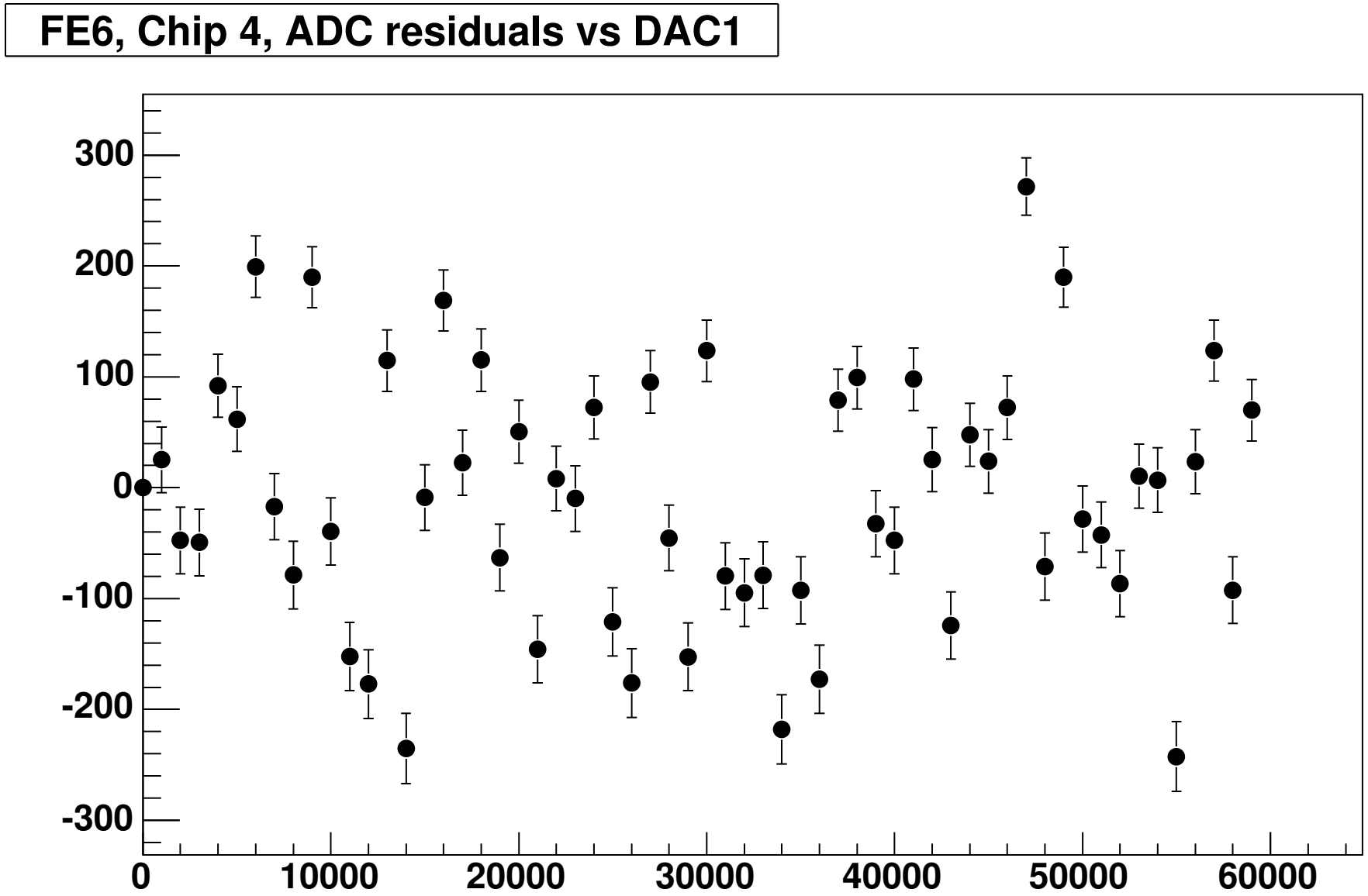

FE6, Chip 4, ADC mean vs DAC0
χ² / ndf 2.42e+05 / 57
p0 47 ± 0.01625
p1 0.4527 ± 4.79e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

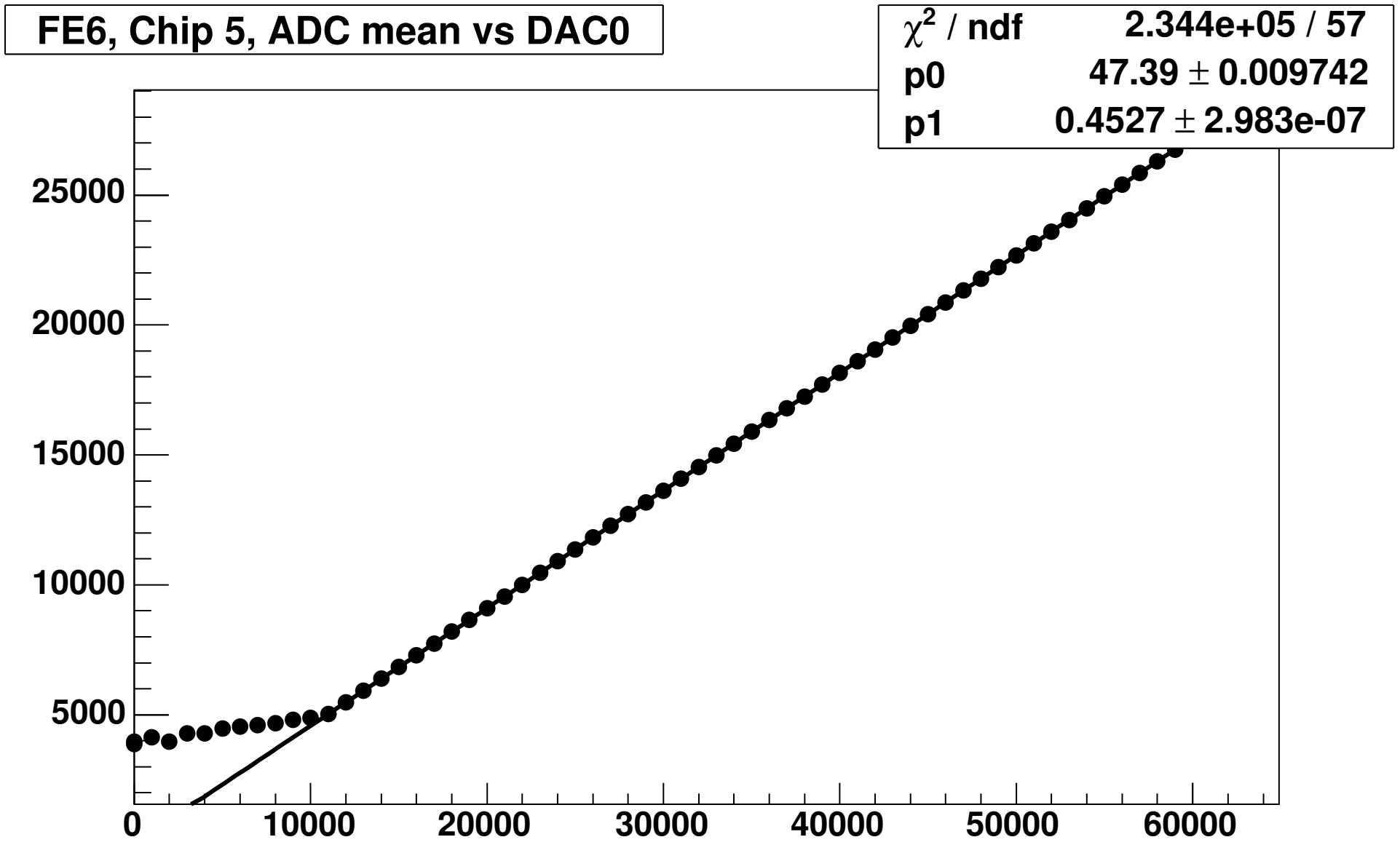

FE6, Chip 4, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

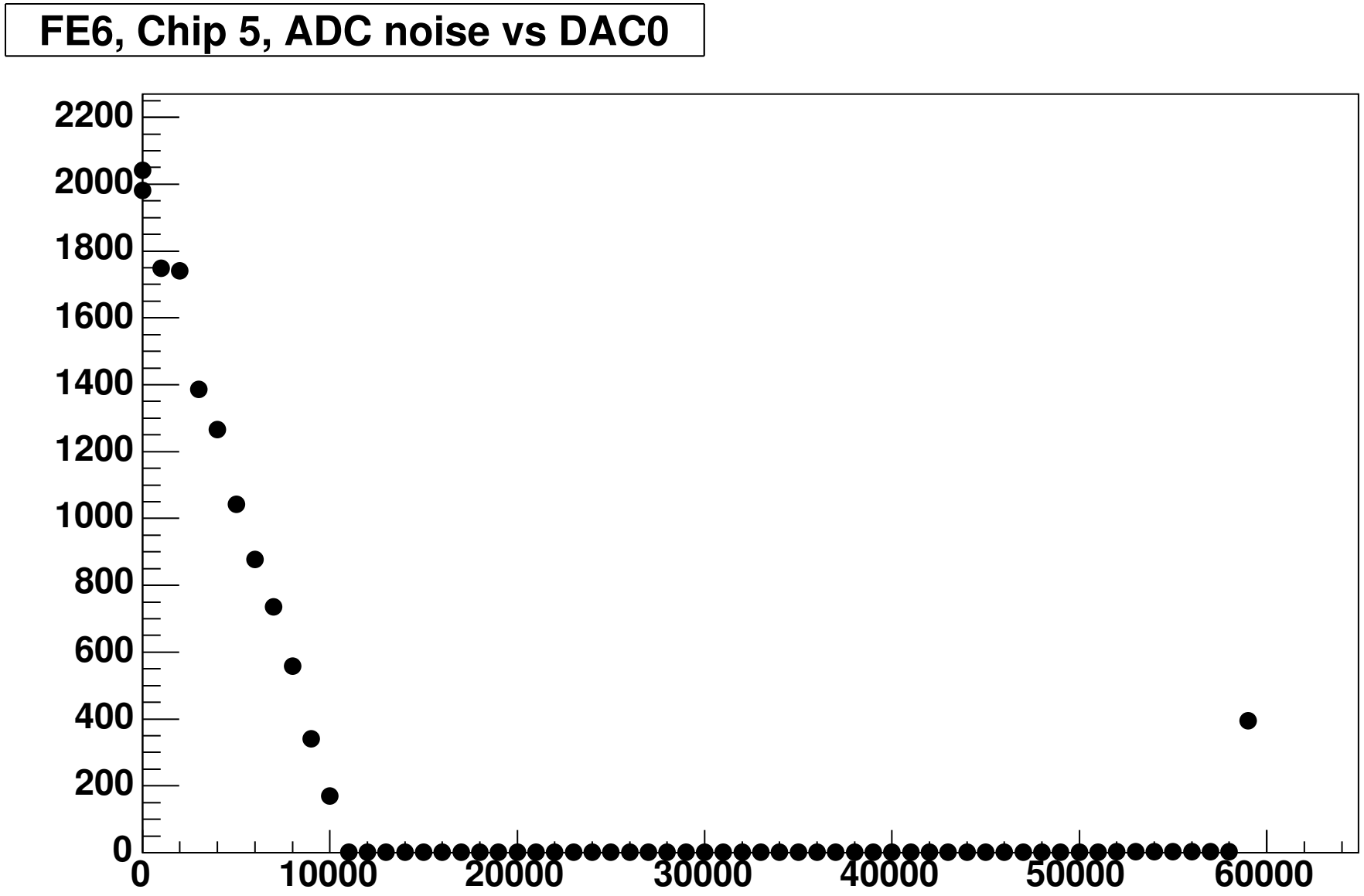

FE6, Chip 4, ADC residuals vs DAC0
4000
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

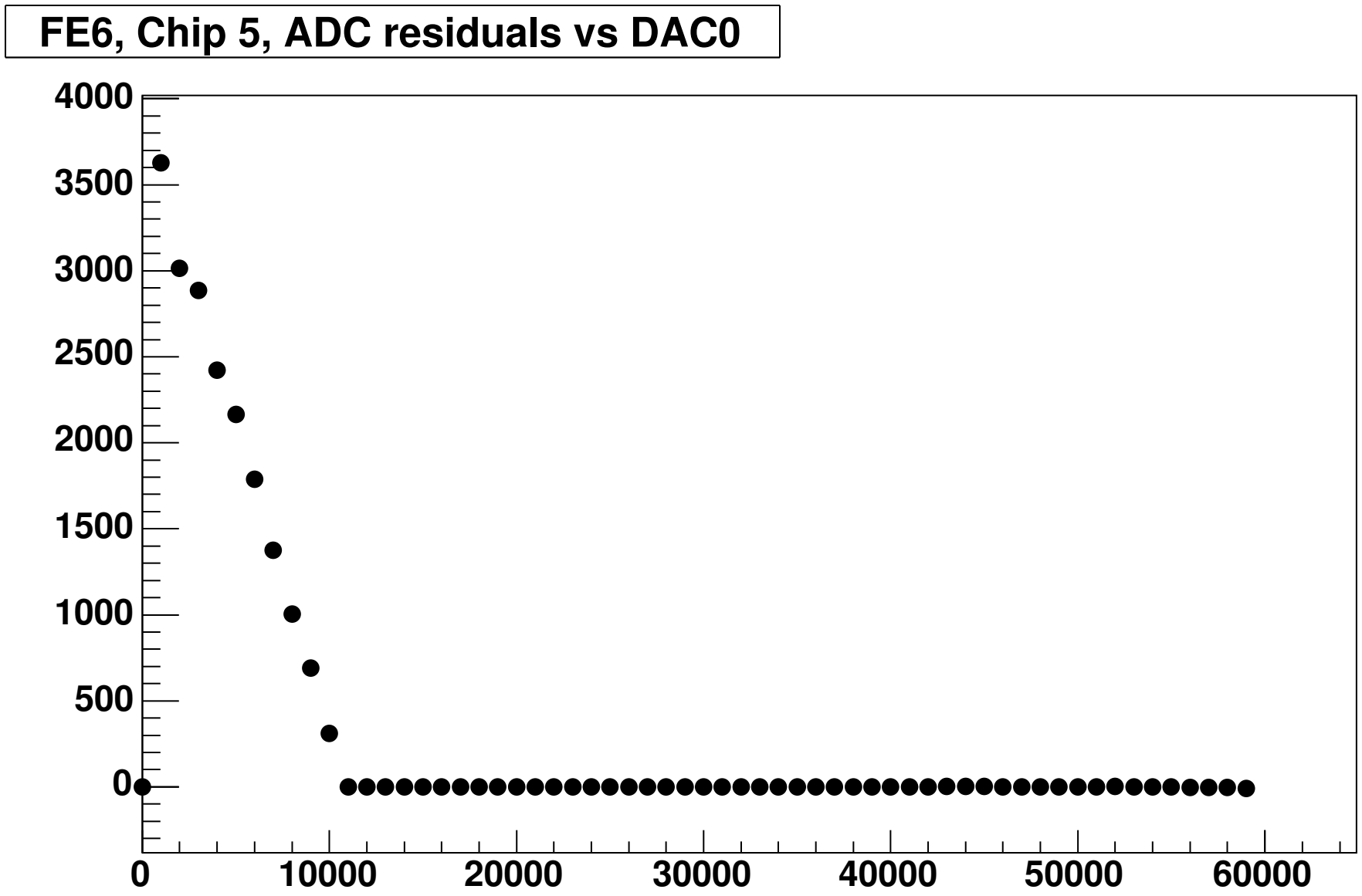

FE6, Chip 4, ADC mean vs DAC1
χ² / ndf 904.1 / 57
p0 3915 ± 7.731
p1 0.0005013 ± 0.0002227
4200
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE6, Chip 4, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE6, Chip 4, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 5, ADC mean vs DAC0
χ² / ndf 2.344e+05 / 57
p0 47.39 ± 0.009742
p1 0.4527 ± 2.983e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE6, Chip 5, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE6, Chip 5, ADC residuals vs DAC0
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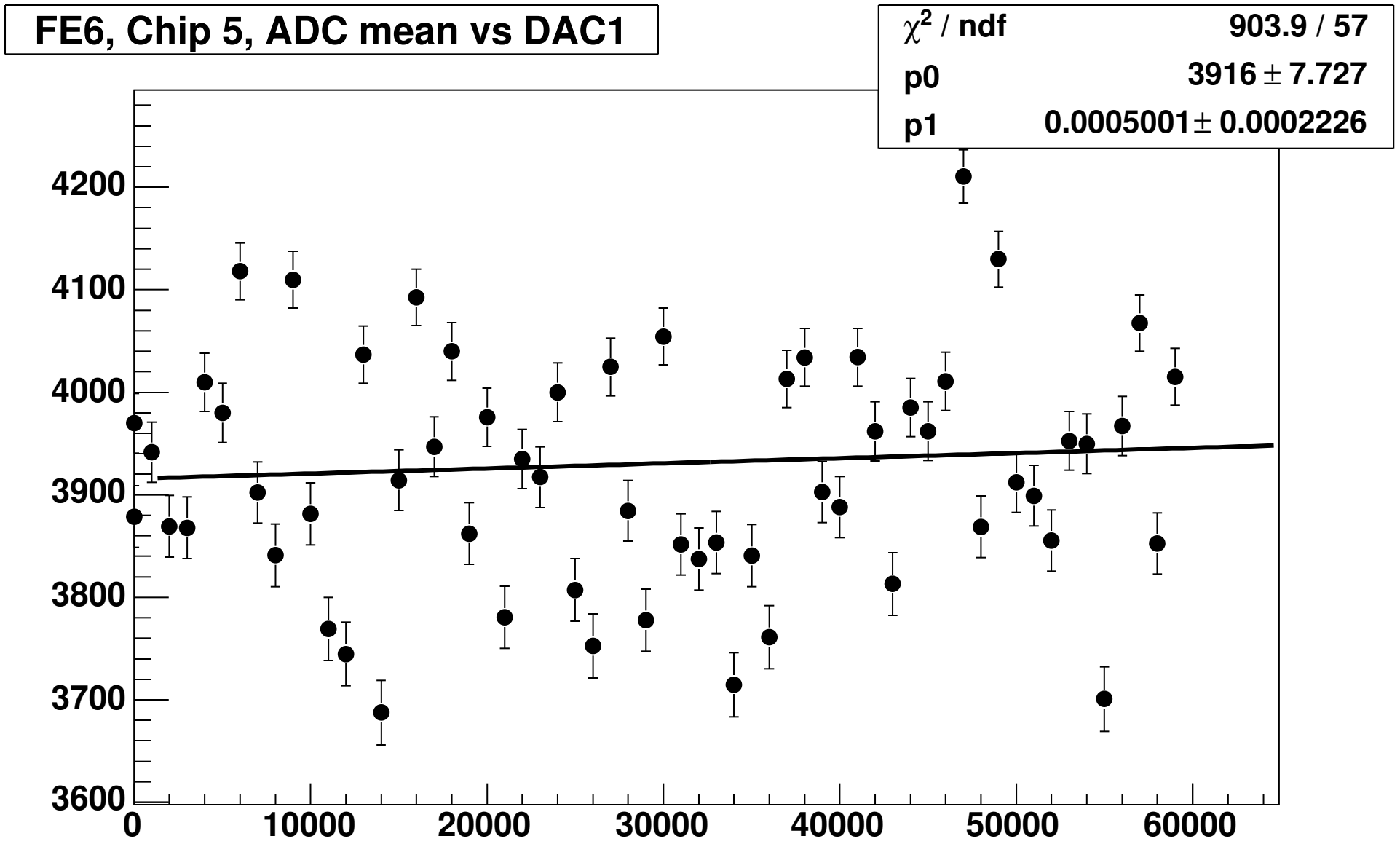
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE6, Chip 5, ADC mean vs DAC1
χ² / ndf 903.9 / 57
p0 3916 ± 7.727
p1 0.0005001 ± 0.0002226
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4100
4000
3900
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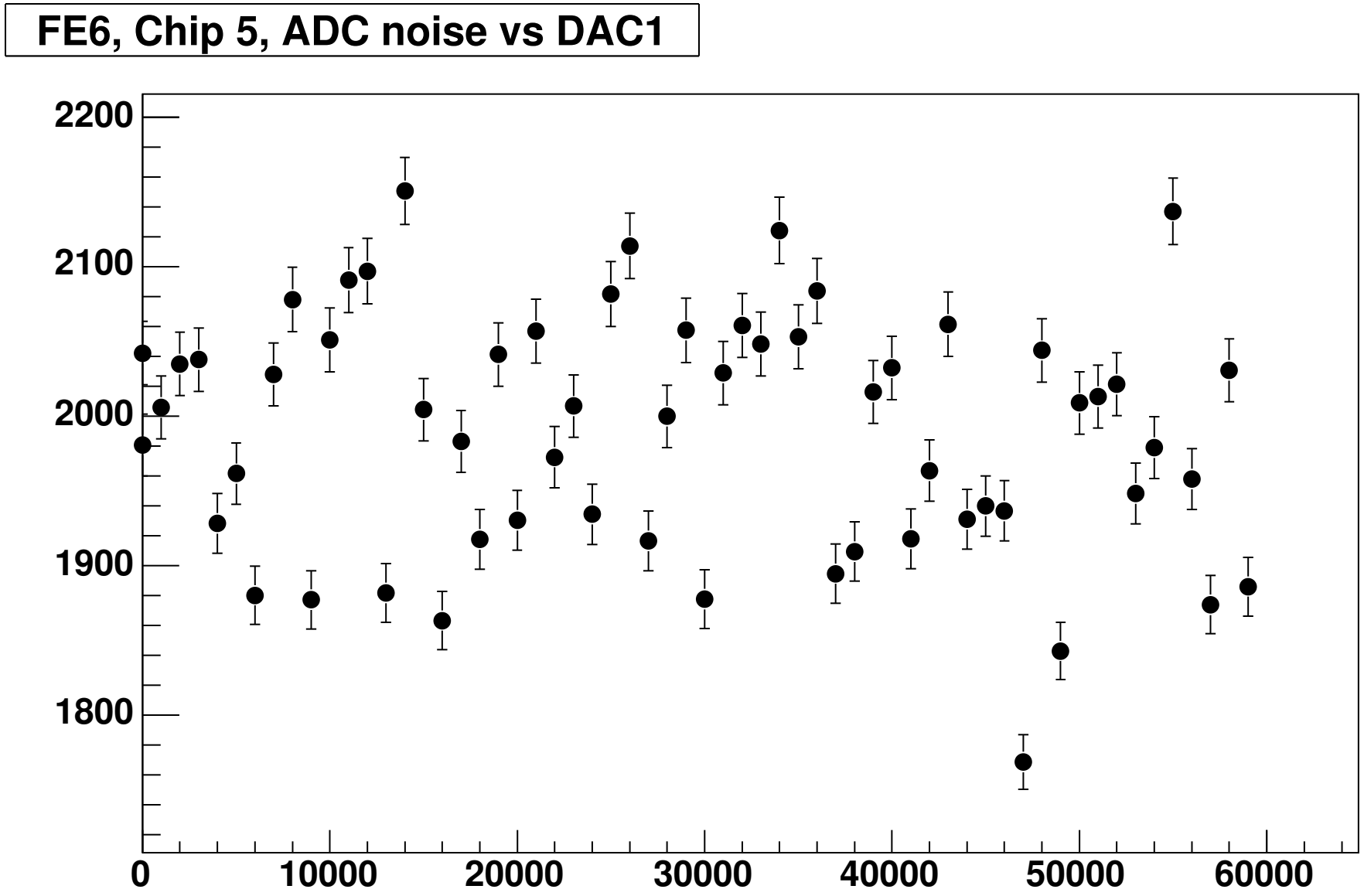
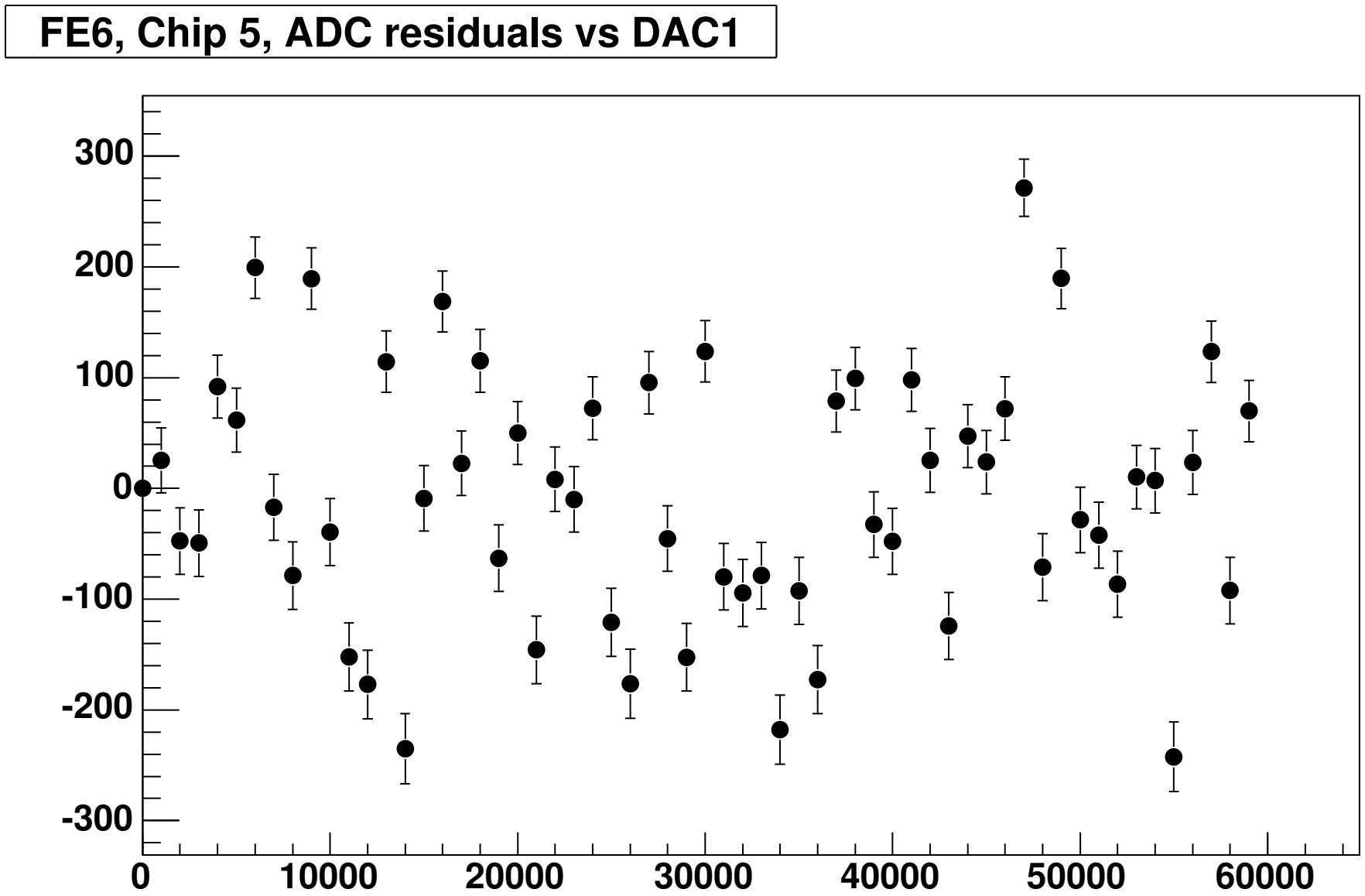
3700
3600
0
10000
20000
30000
40000
50000
60000


FE6, Chip 5, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE6, Chip 5, ADC residuals vs DAC1
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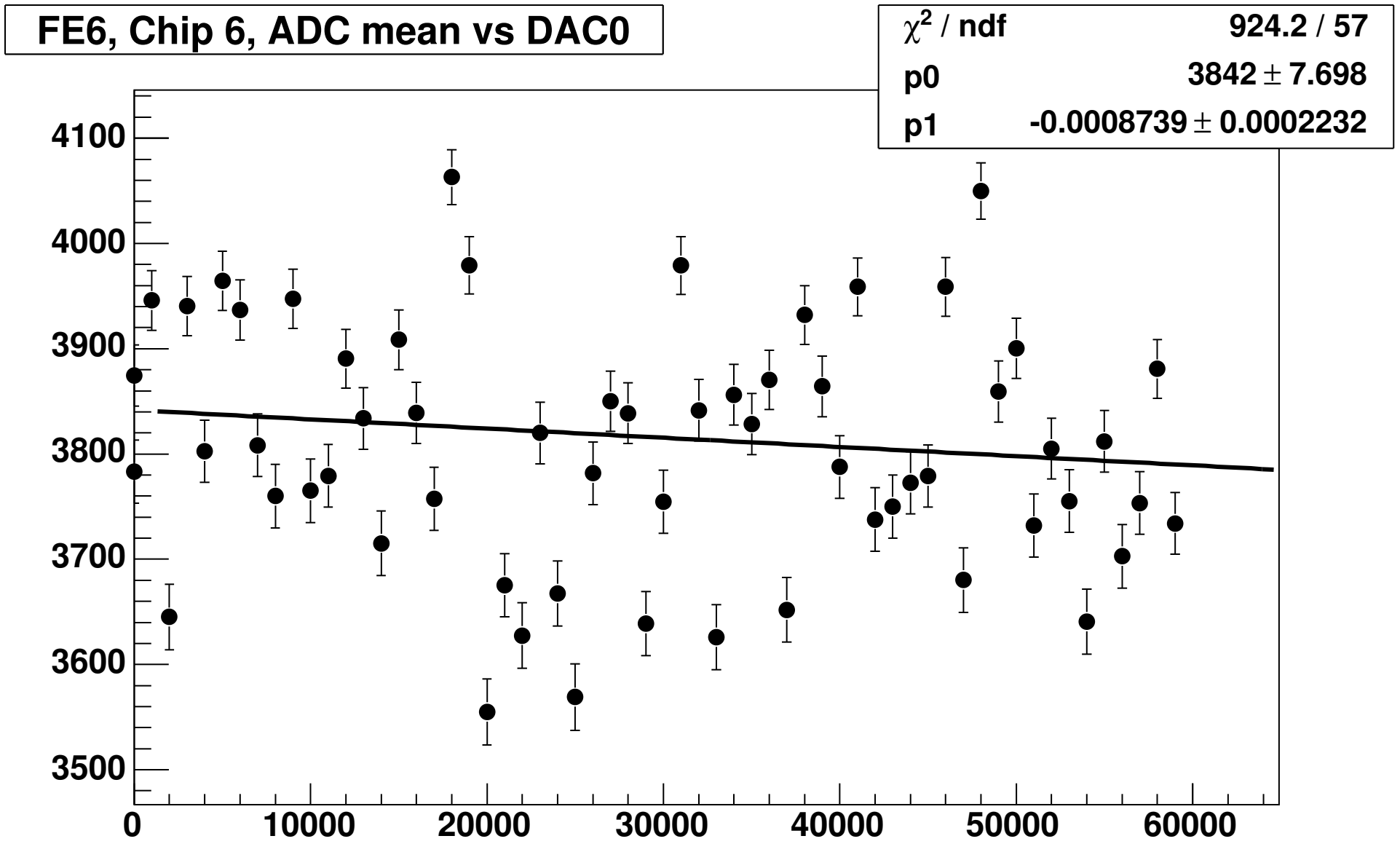
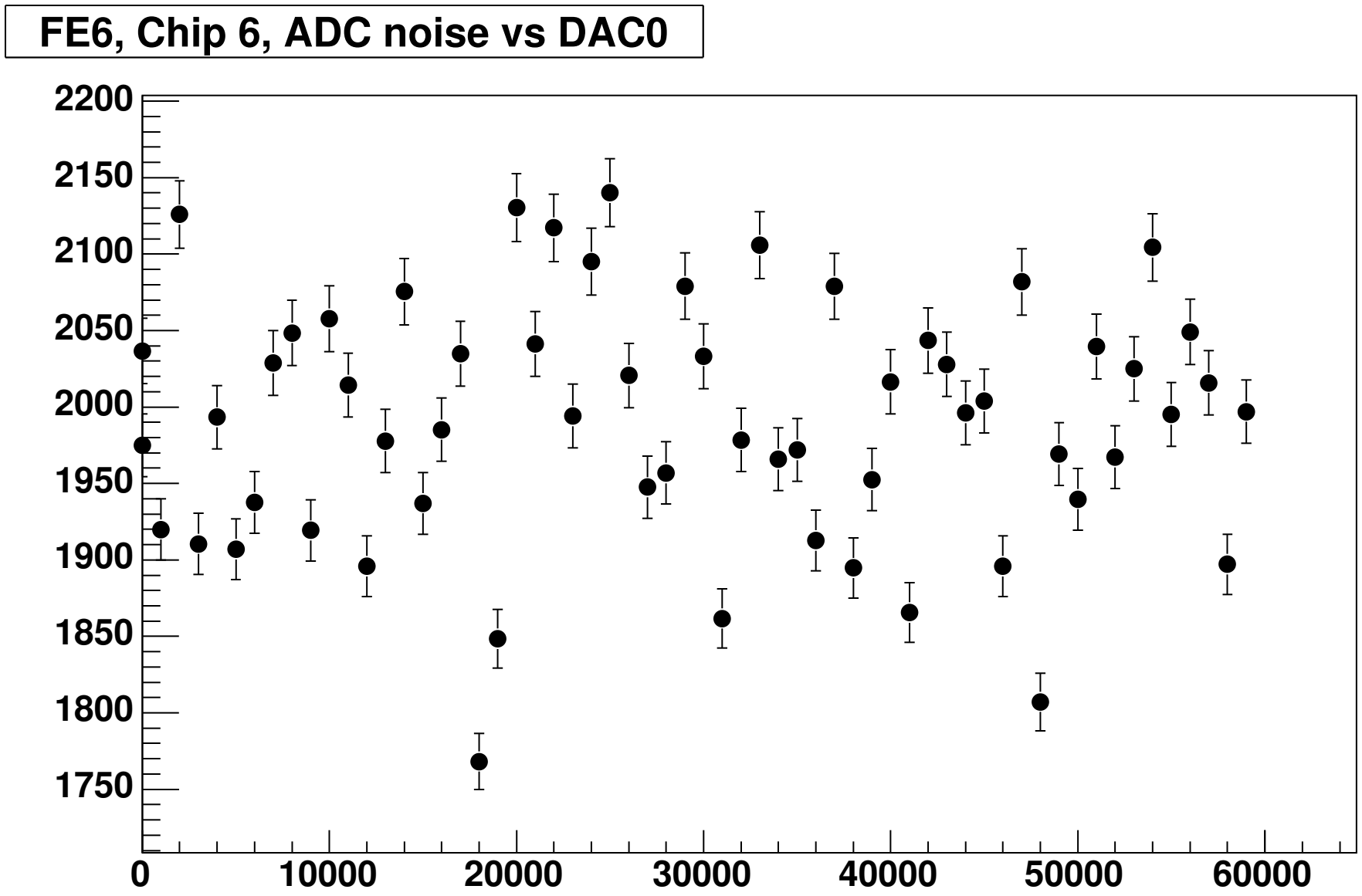
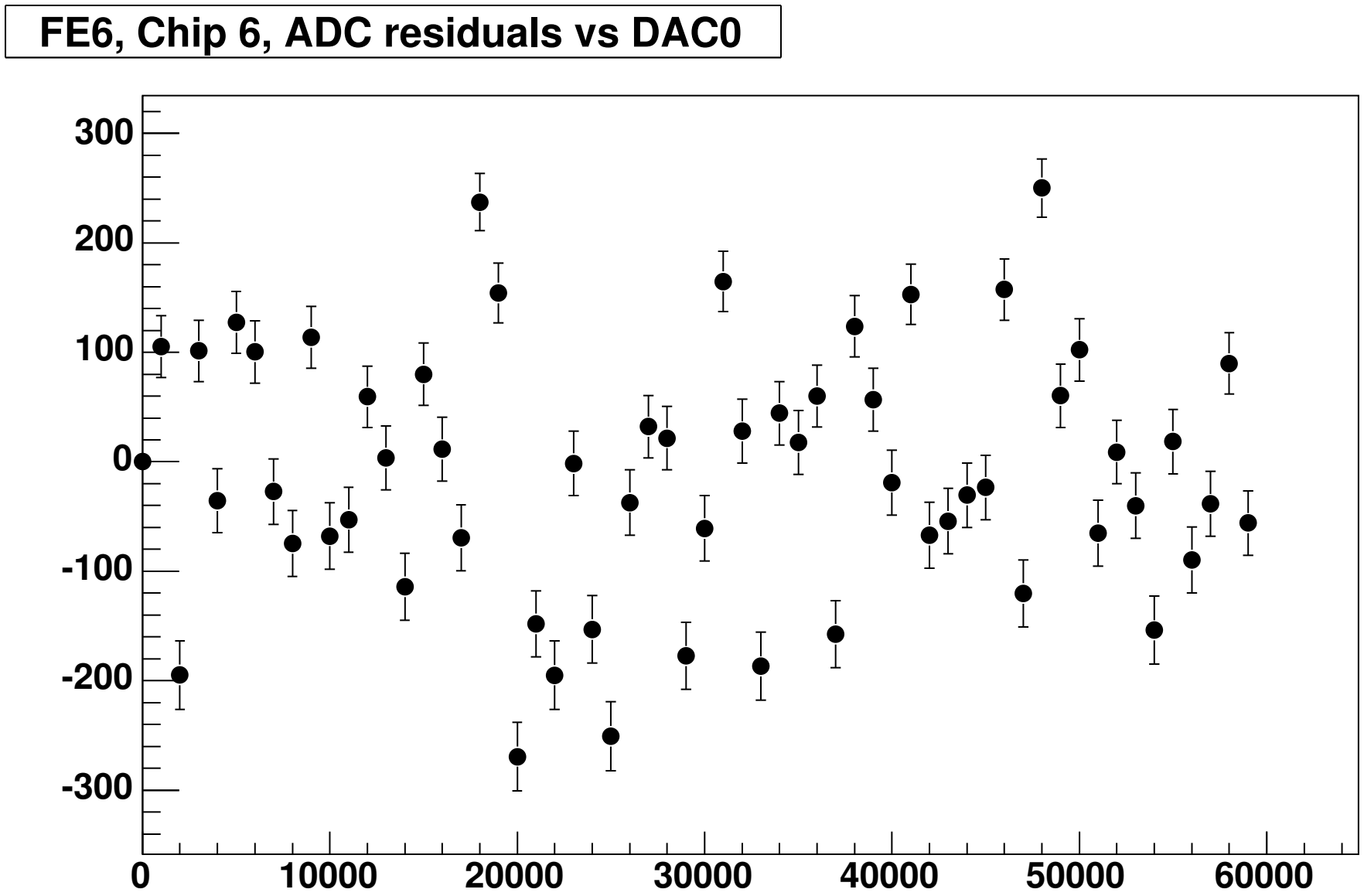
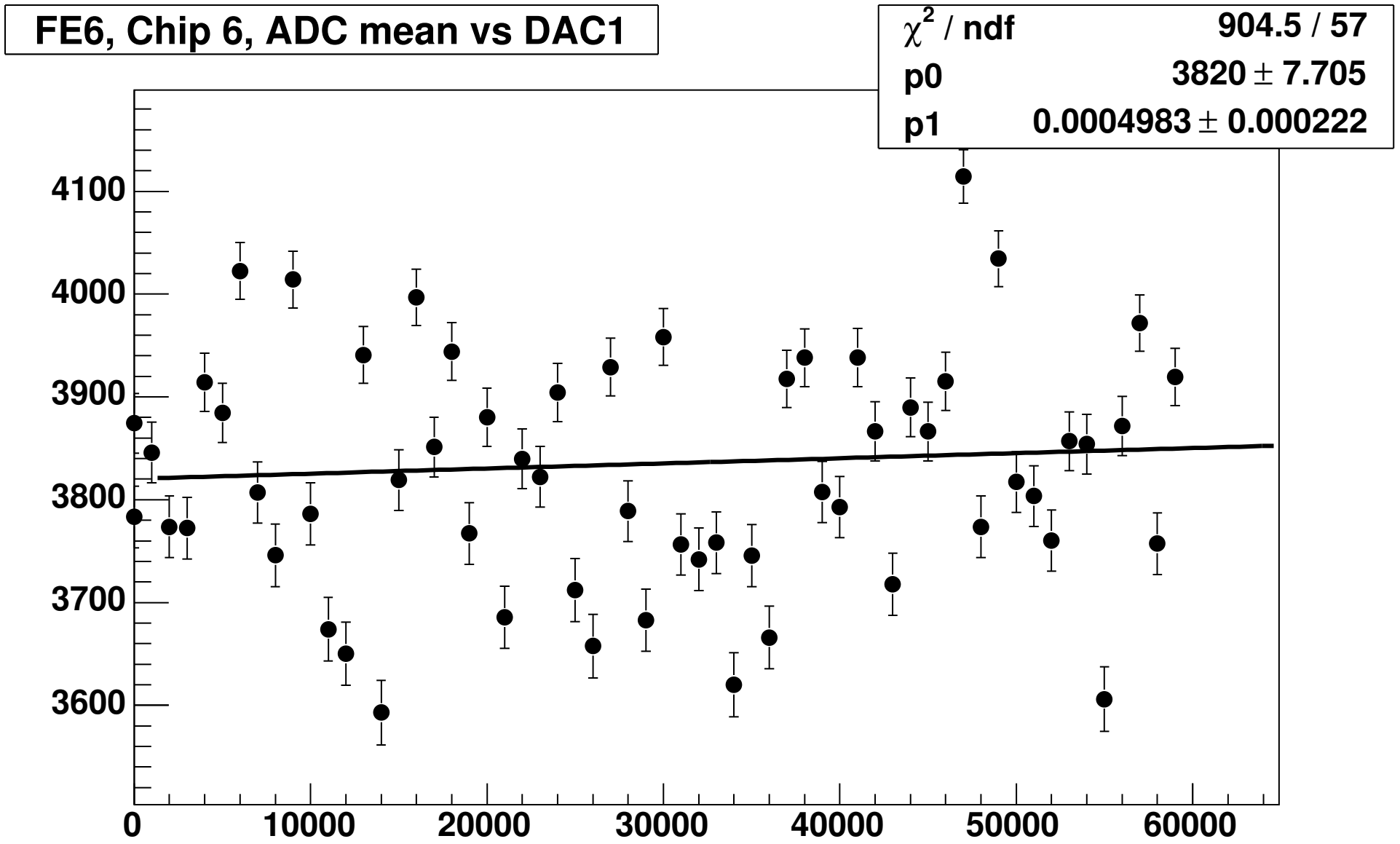
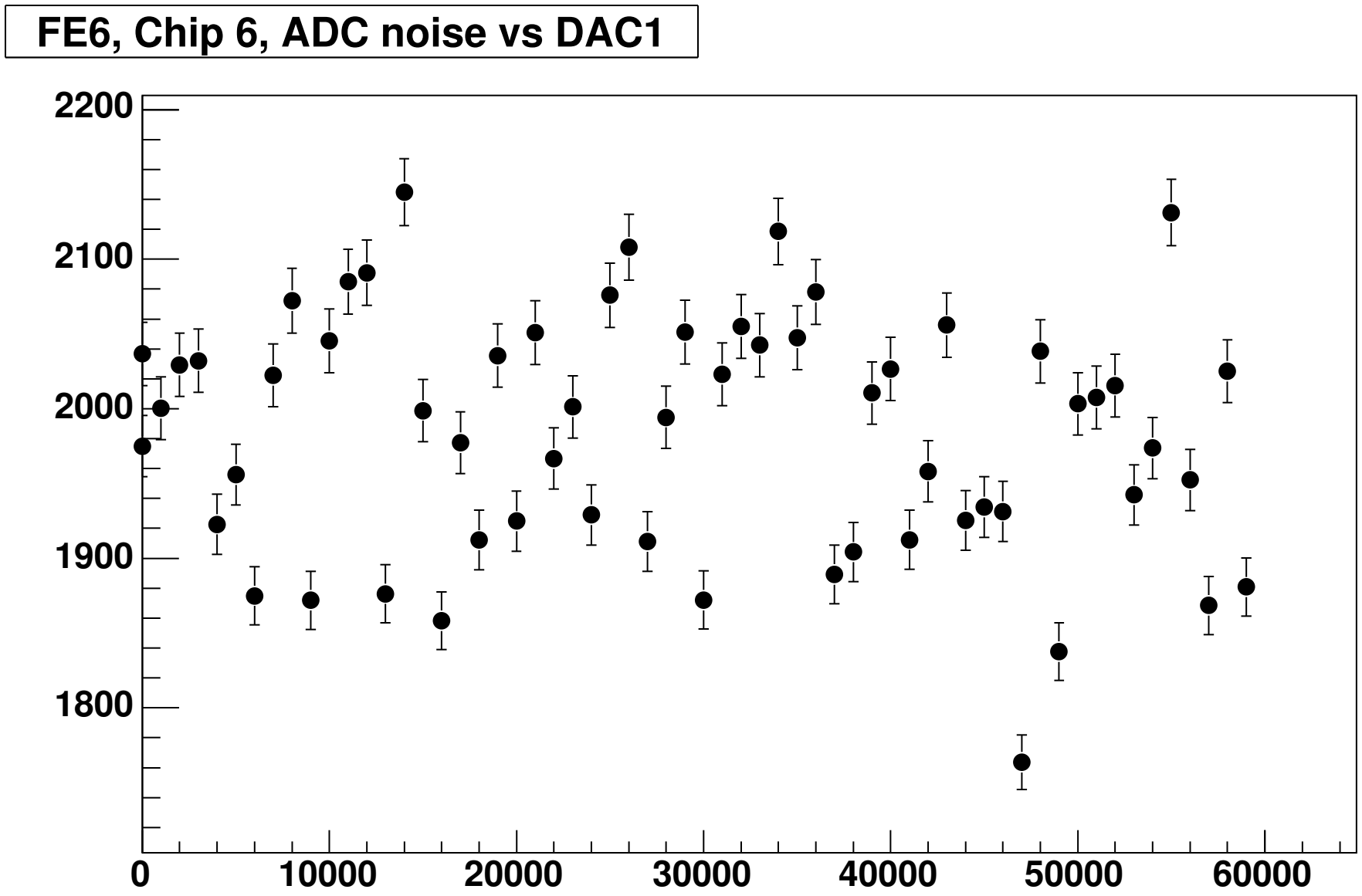
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

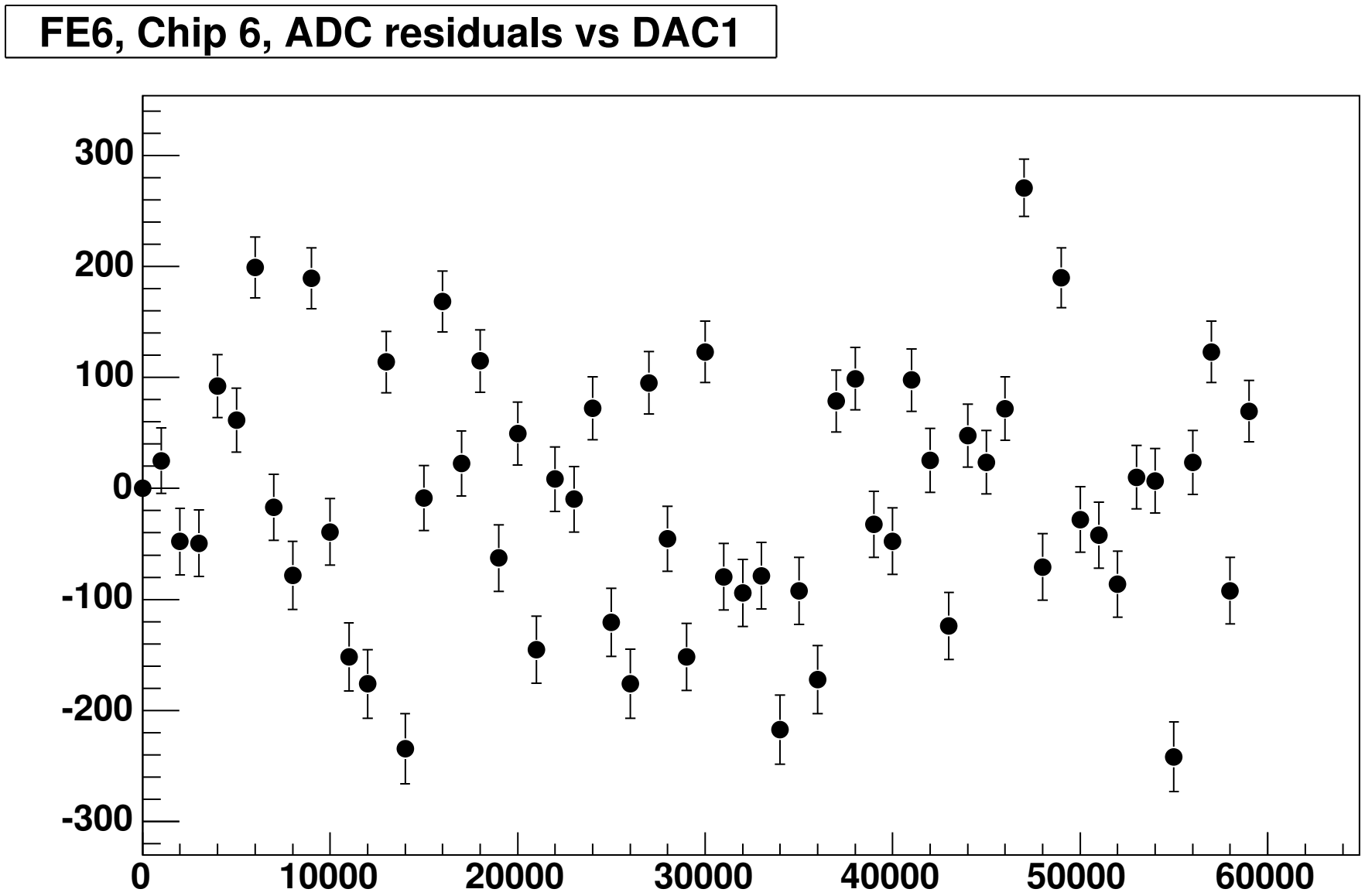

FE6, Chip 6, ADC mean vs DAC0
χ^2 / ndf 924.2 / 57
p0 3842 ± 7.698
p1 -0.0008739 ± 0.0002232
4100
4000
3900
3800
3700
3600
3500
0
10000
20000
30000
40000
50000
60000

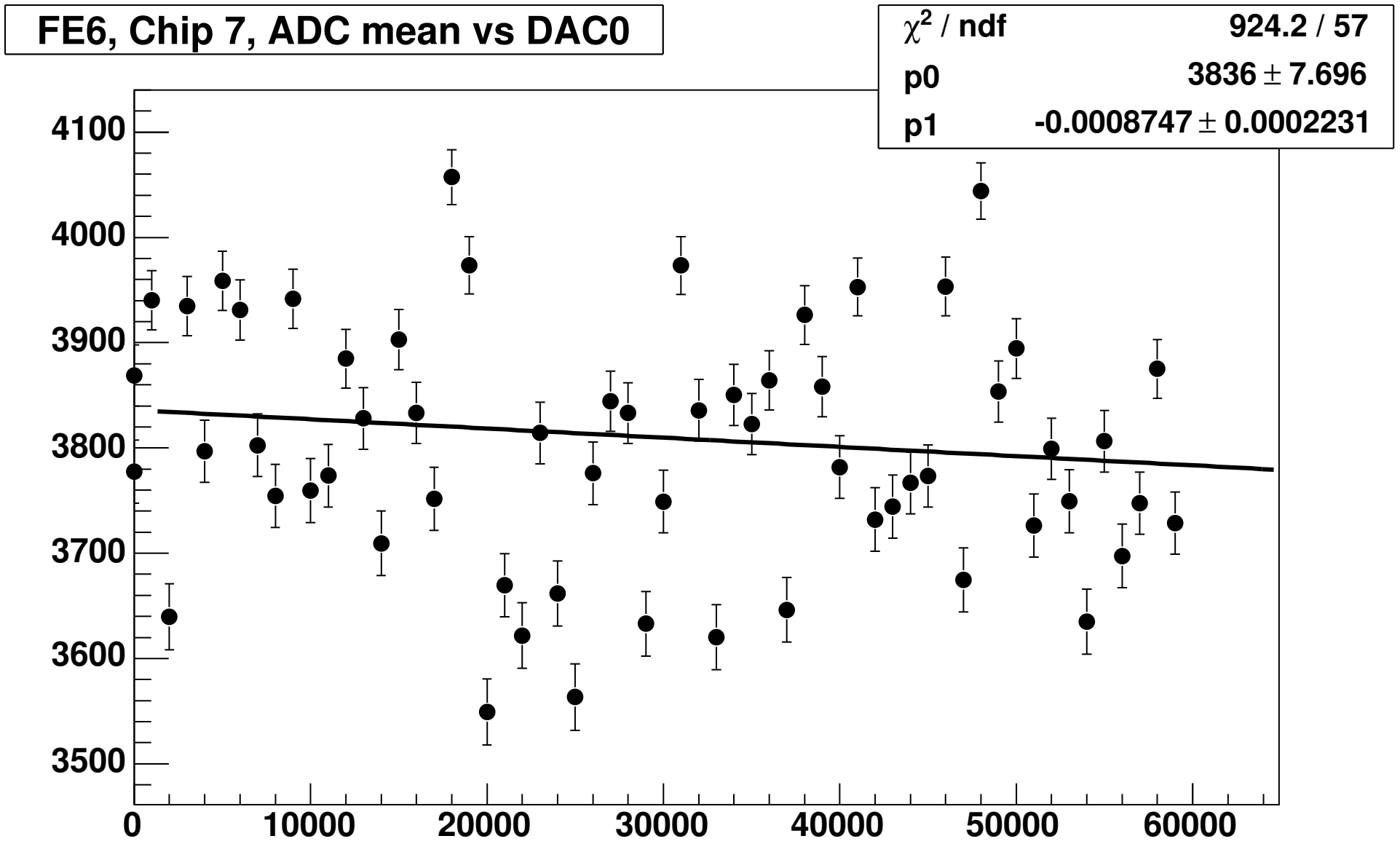

FE6, Chip 6, ADC noise vs DAC0
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
60000

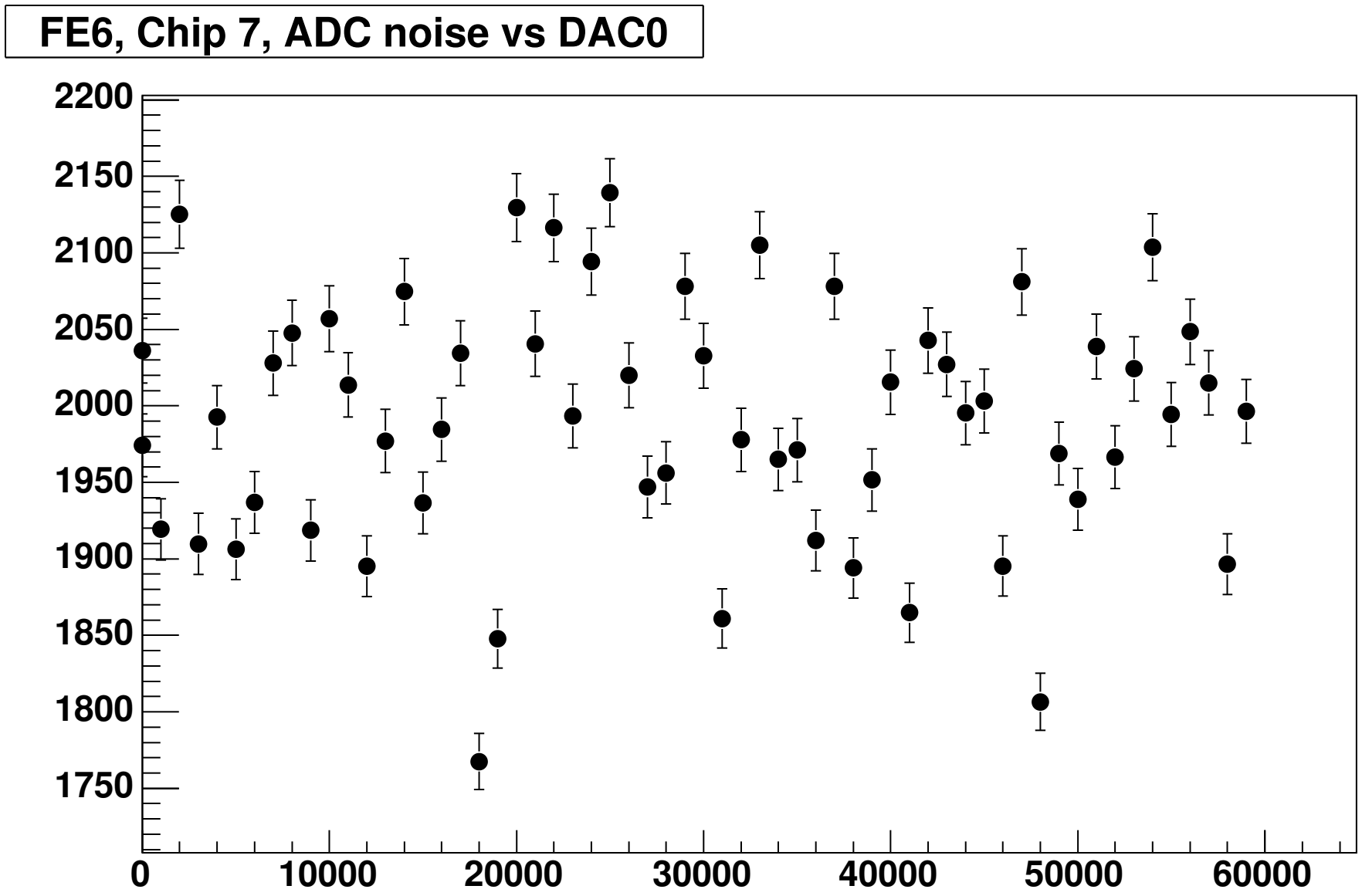

FE6, Chip 6, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 6, ADC mean vs DAC1
χ² / ndf 904.5 / 57
p0 3820 ± 7.705
p1 0.0004983 ± 0.000222
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE6, Chip 6, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE6, Chip 6, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 7, ADC mean vs DAC0
χ^2 / ndf 924.2 / 57
p0 3836 ± 7.696
p1 -0.0008747 ± 0.0002231
4100
4000
3900
3800
3700
3600
3500
0
10000
20000
30000
40000
50000
60000


FE6, Chip 7, ADC noise vs DAC0
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
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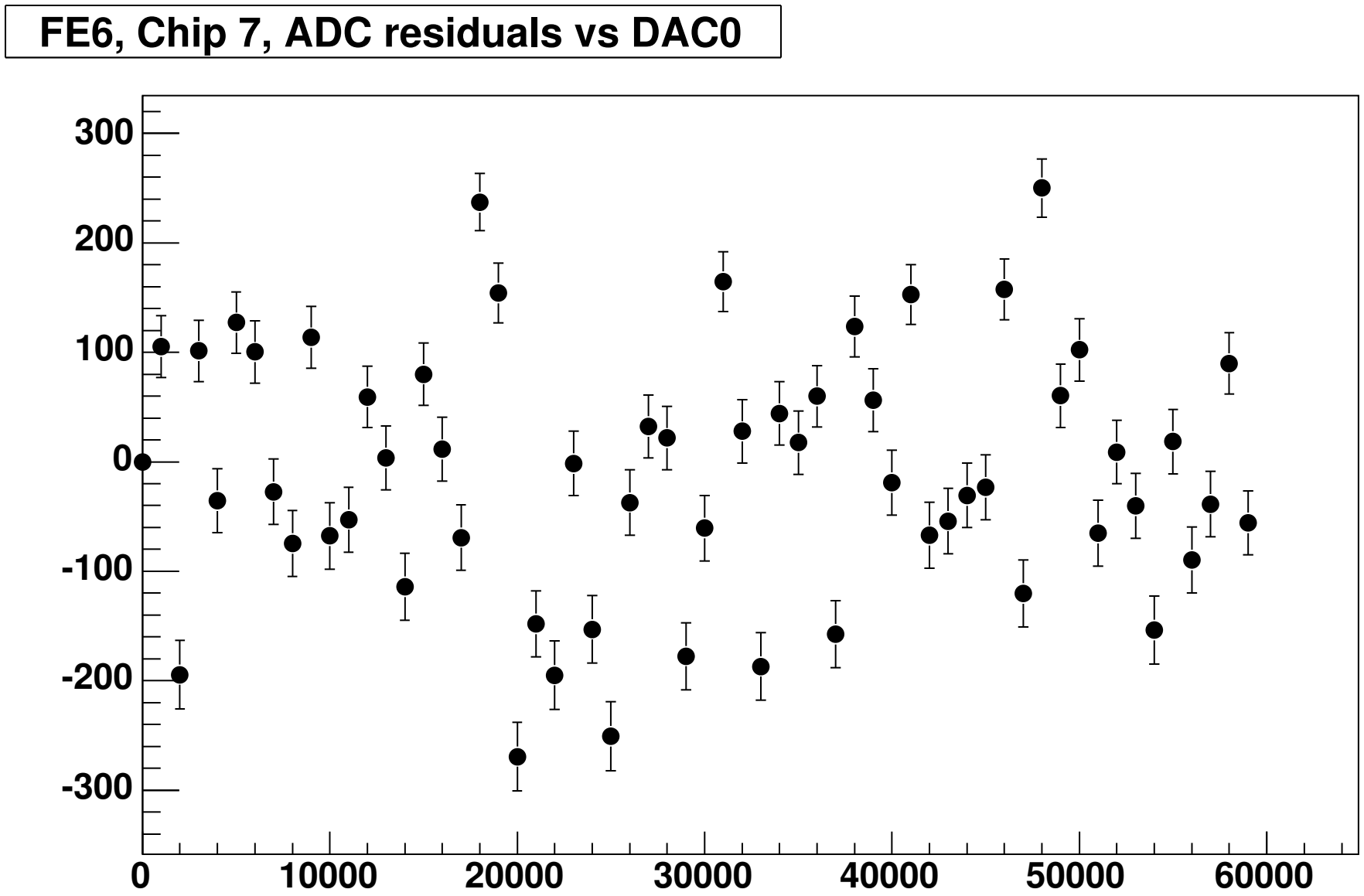
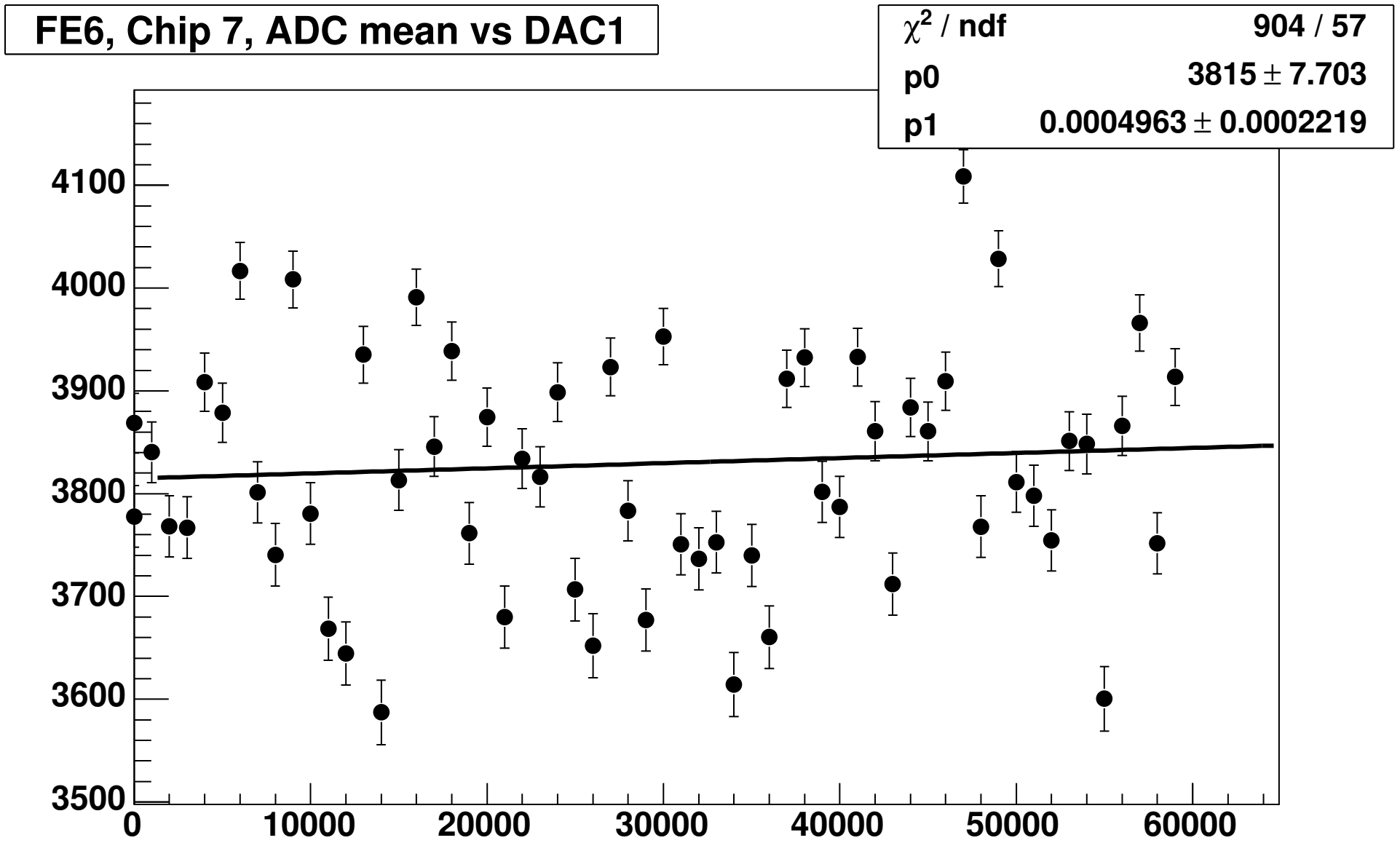
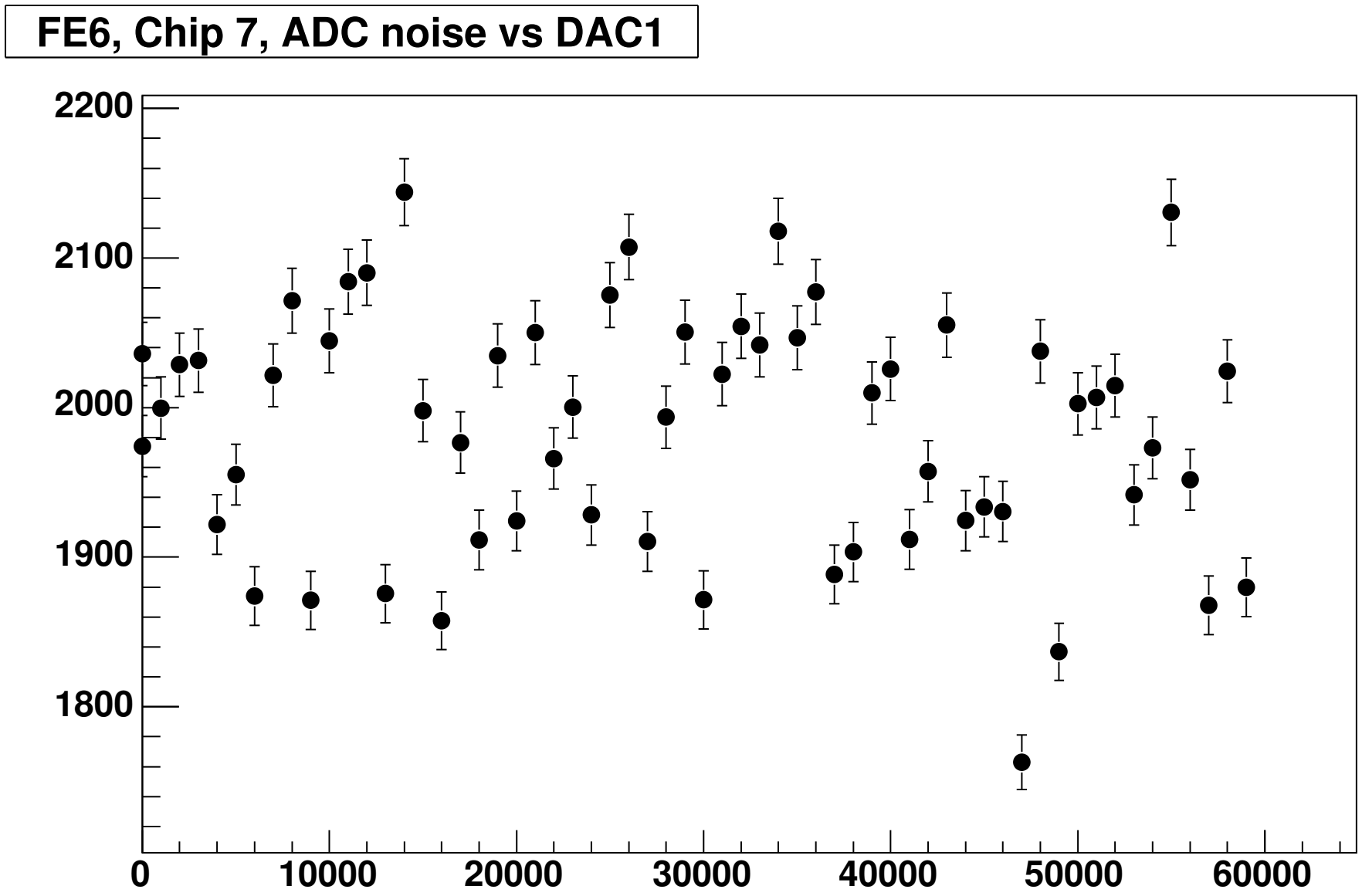
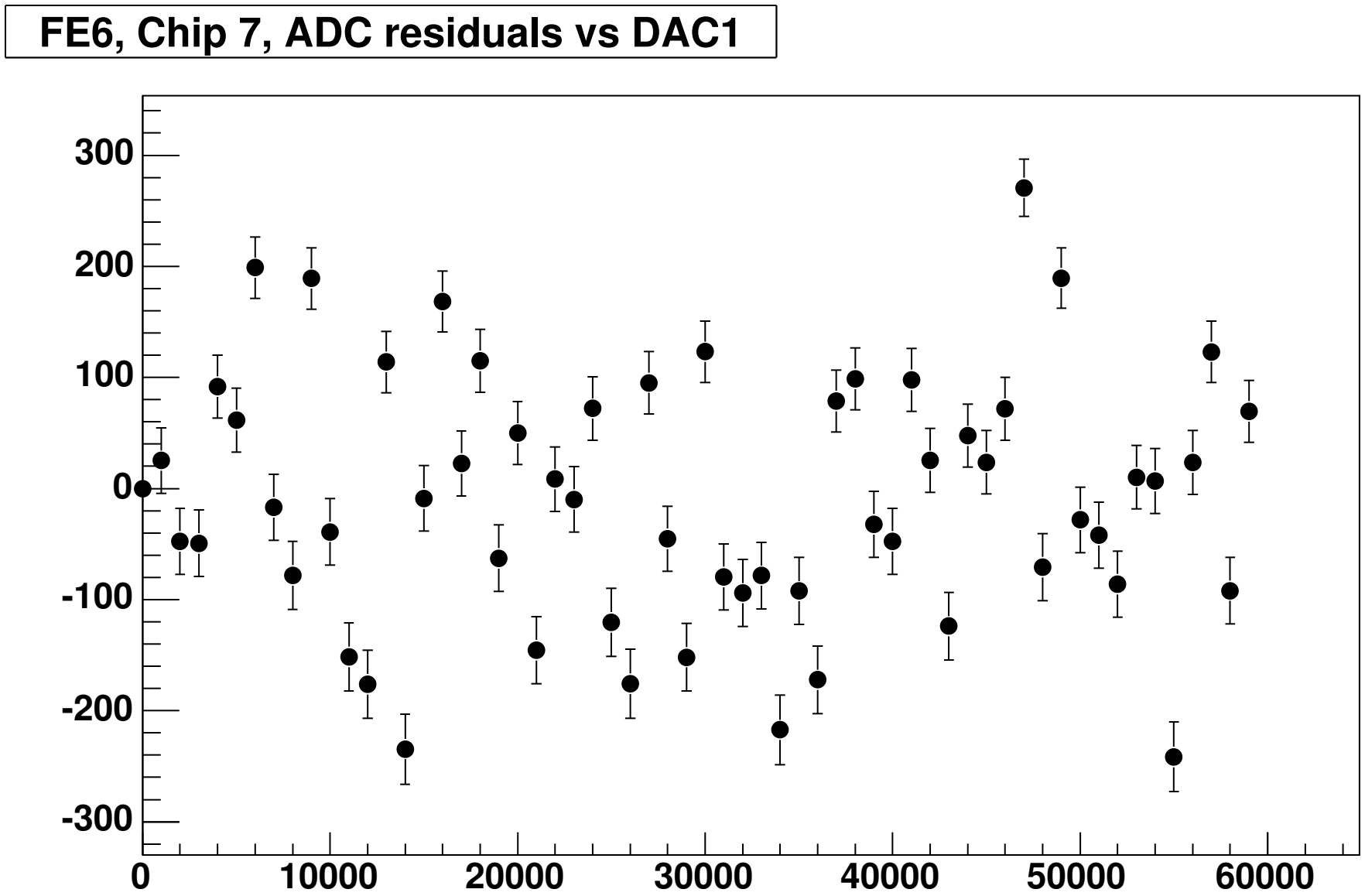
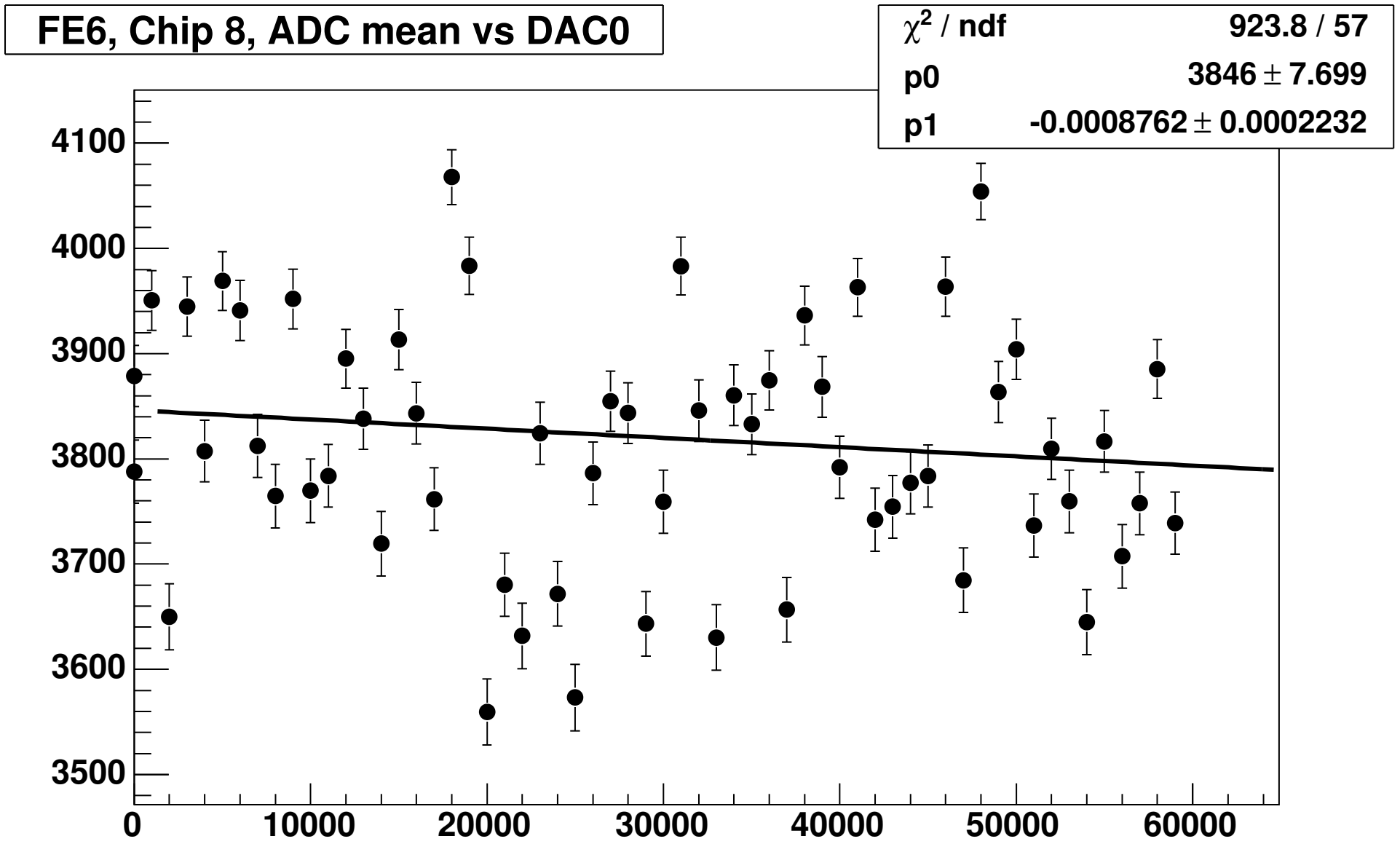
40000
50000
60000


FE6, Chip 7, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 7, ADC mean vs DAC1
χ² / ndf 904 / 57
p0 3815 ± 7.703
p1 0.0004963 ± 0.0002219
4100
4000
3900
3800
3700
3600
3500
0
10000
20000
30000
40000
50000
60000


FE6, Chip 7, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE6, Chip 7, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 8, ADC mean vs DAC0
χ^2 / ndf 923.8 / 57
p0 3846 ± 7.699
p1 -0.0008762 ± 0.0002232
4100
4000
3900
3800
3700
3600
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0
10000
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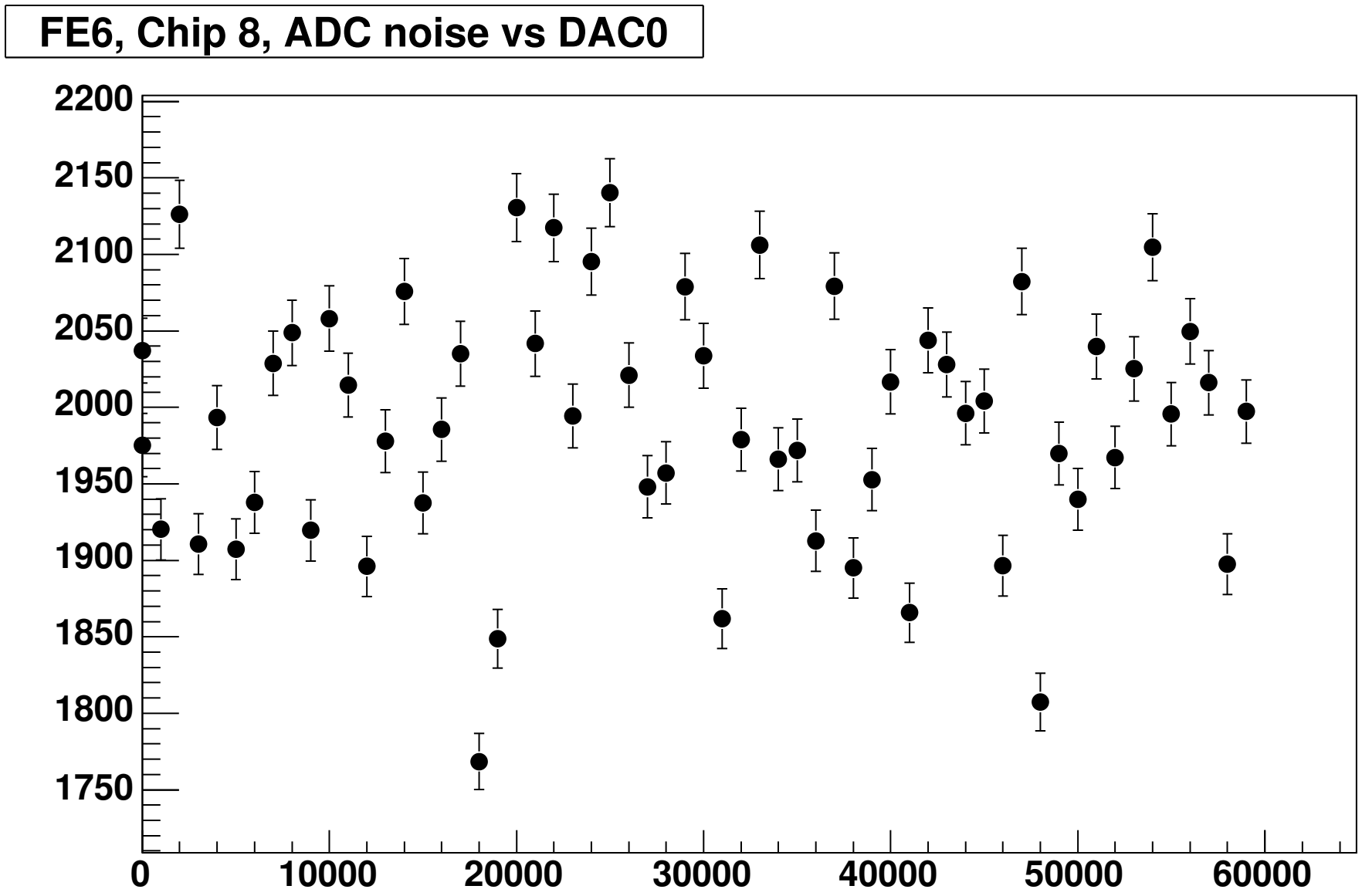
FE6, Chip 8, ADC noise vs DAC0
2200
2150
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2050
2000
1950
1900
1850
1800
1750
0
10000
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30000
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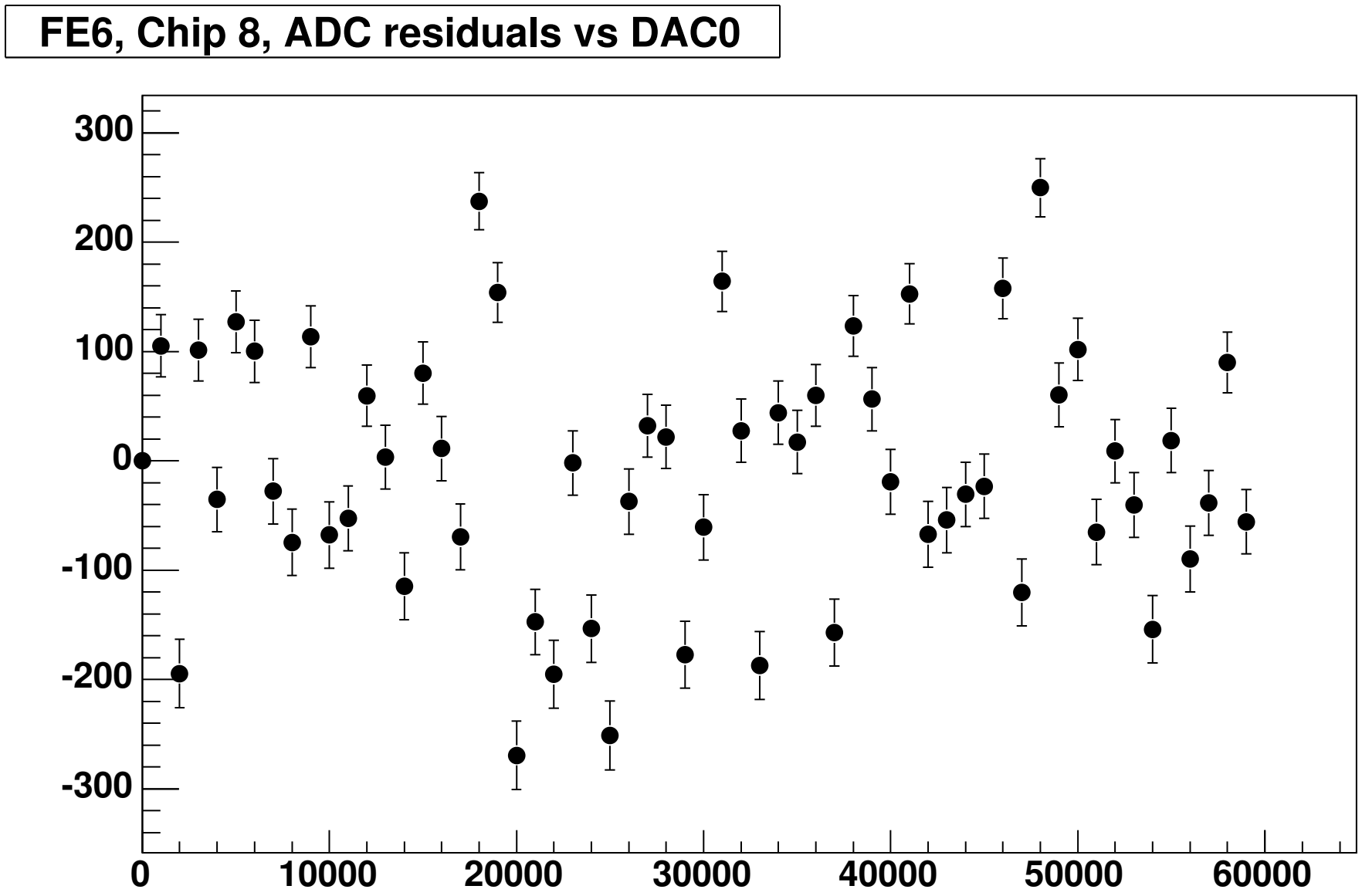
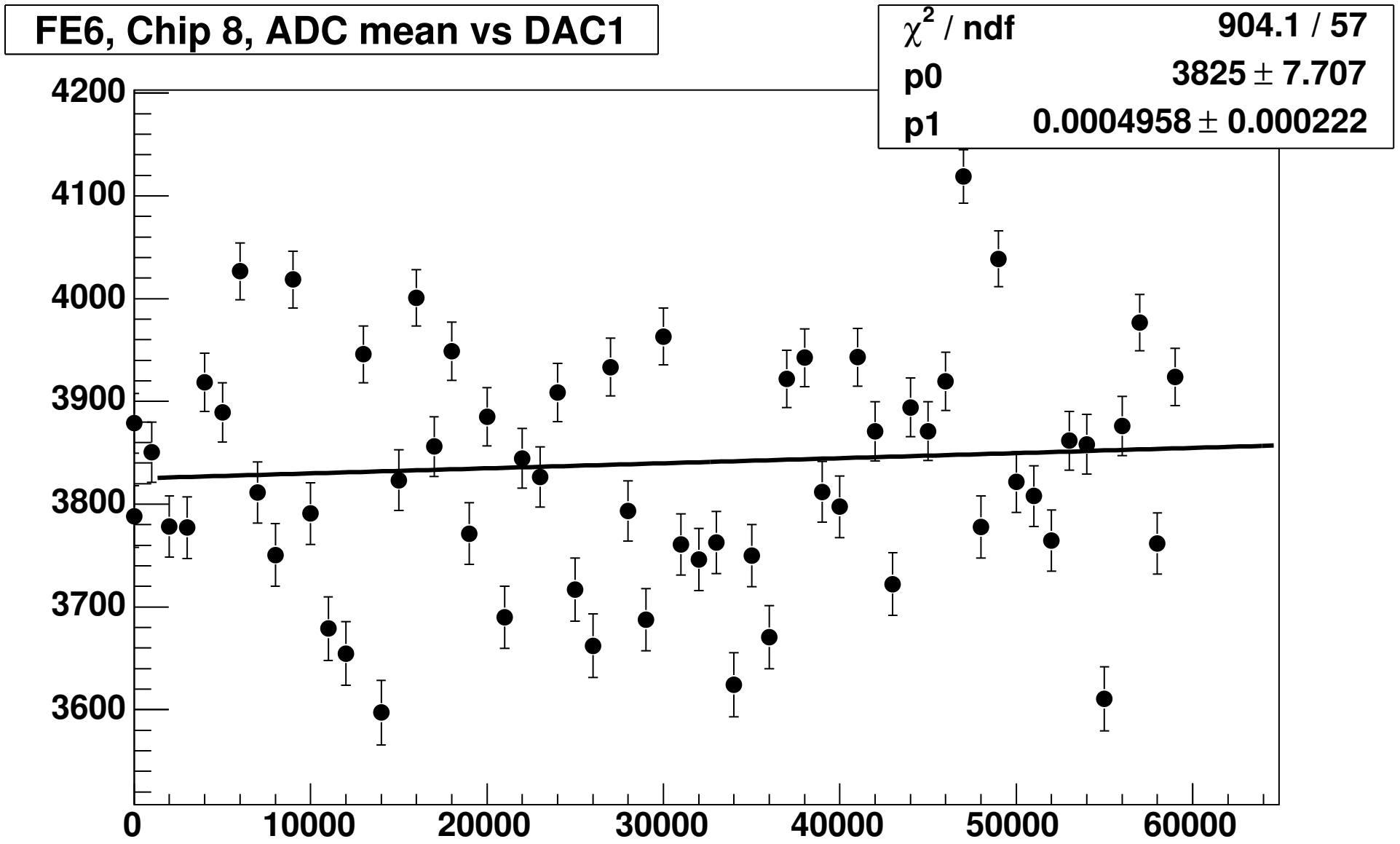

FE6, Chip 8, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 8, ADC mean vs DAC1
χ² / ndf 904.1 / 57
p0 3825 ± 7.707
p1 0.0004958 ± 0.000222
4200
4100
4000
3900
3800
3700
3600
0
10000
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50000
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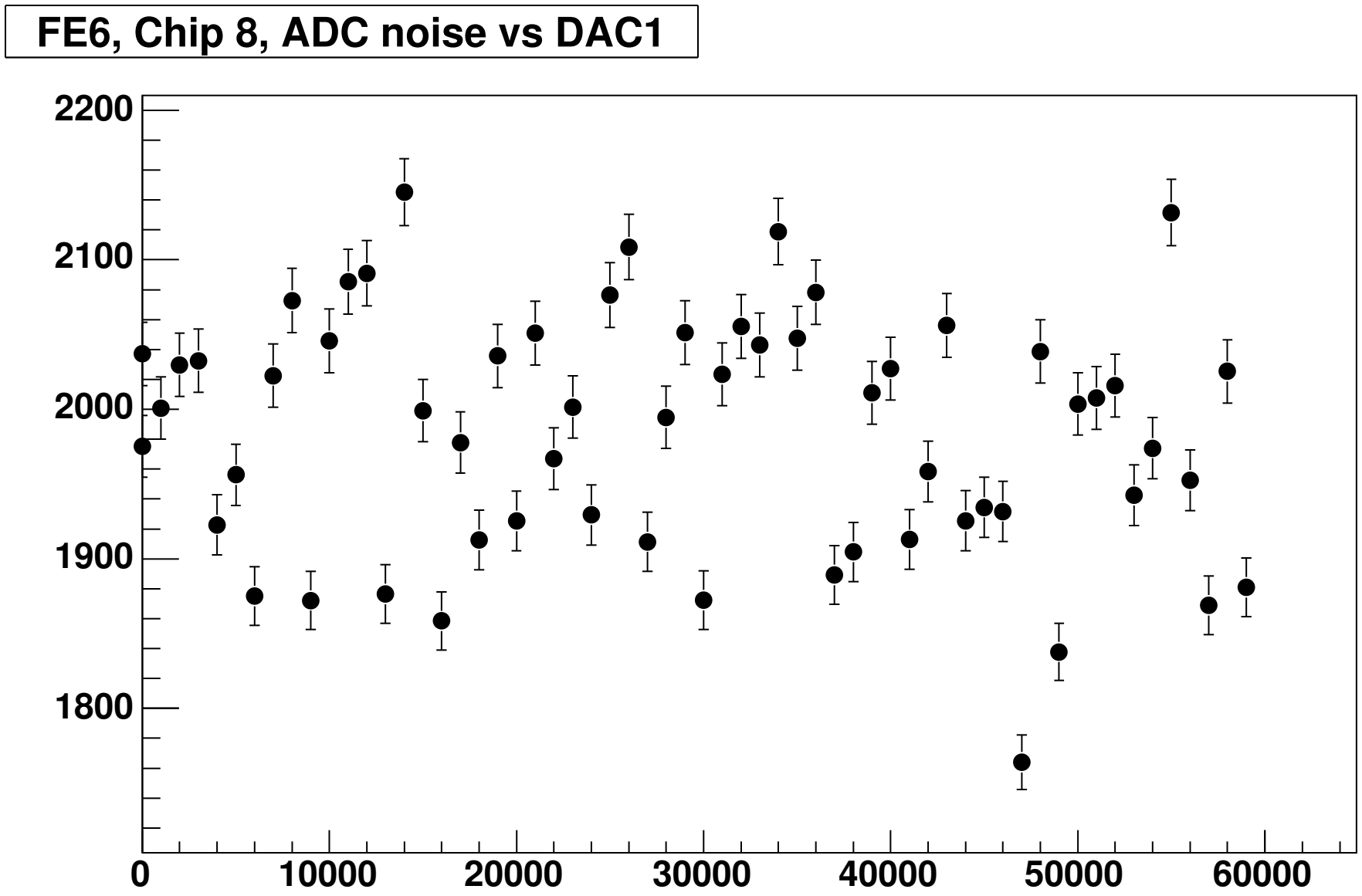
FE6, Chip 8, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
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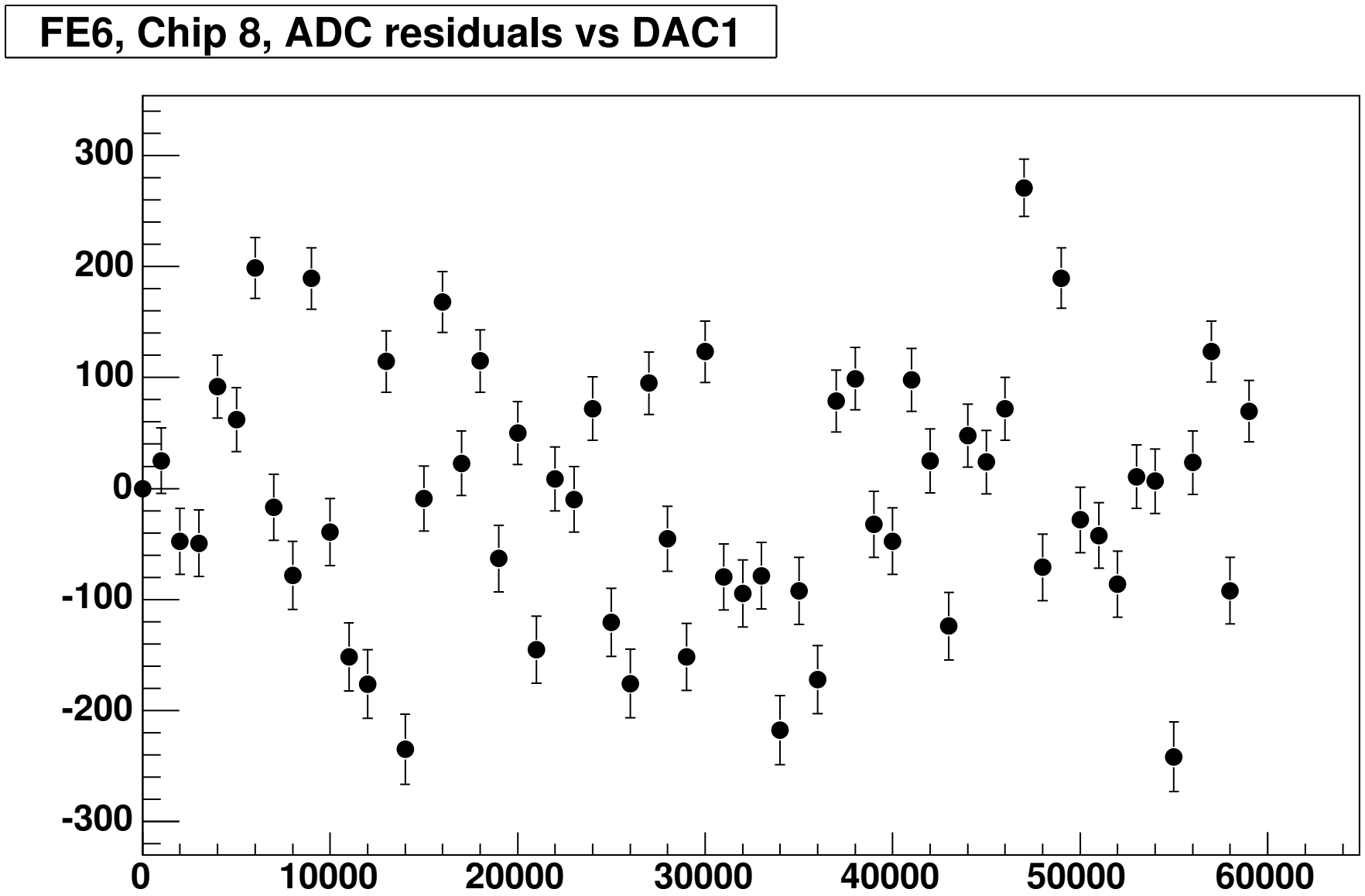
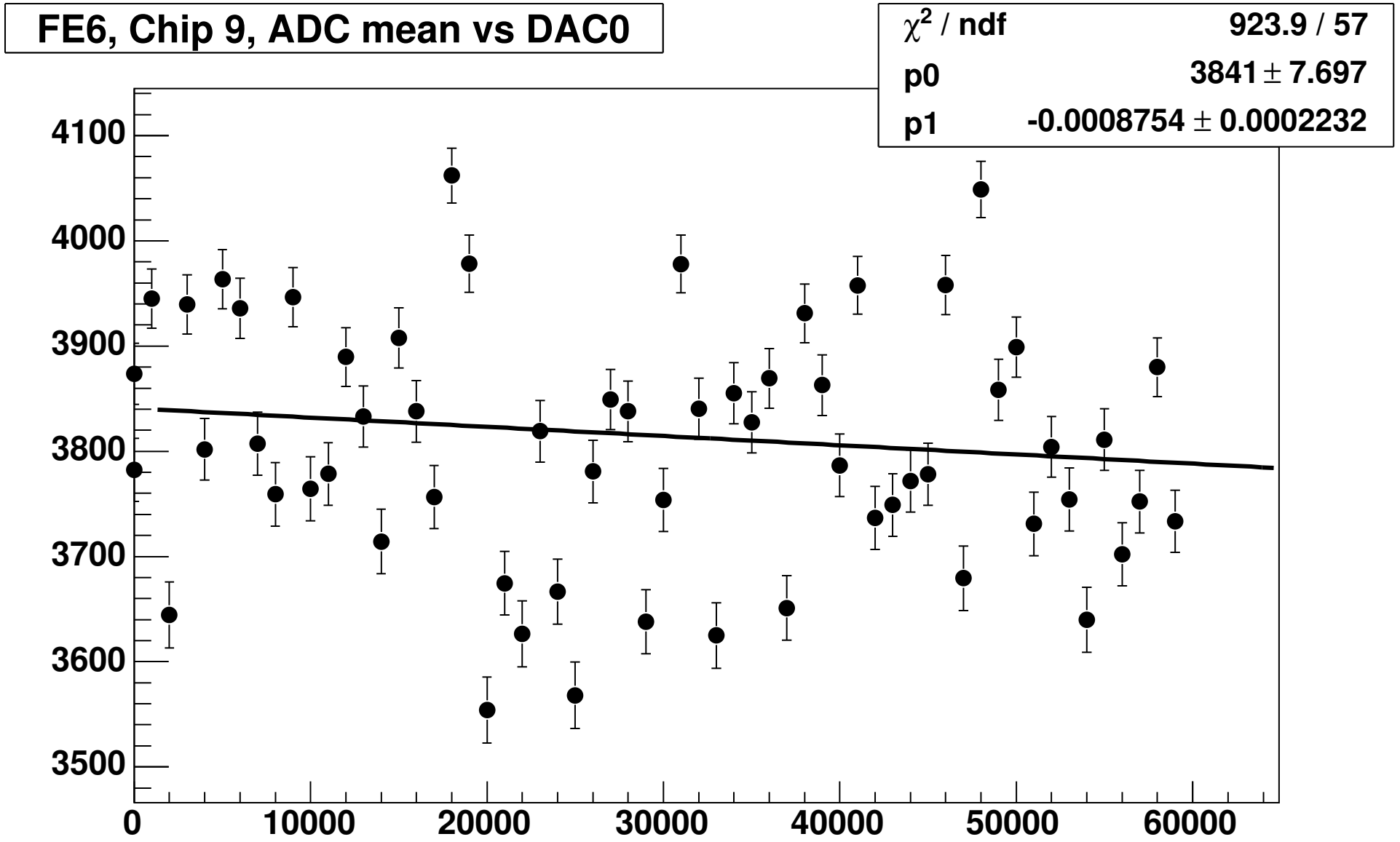

FE6, Chip 8, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 9, ADC mean vs DAC0
χ² / ndf 923.9 / 57
p0 3841 ± 7.697
p1 -0.0008754 ± 0.0002232
4100
4000
3900
3800
3700
3600
3500
0
10000
20000
30000
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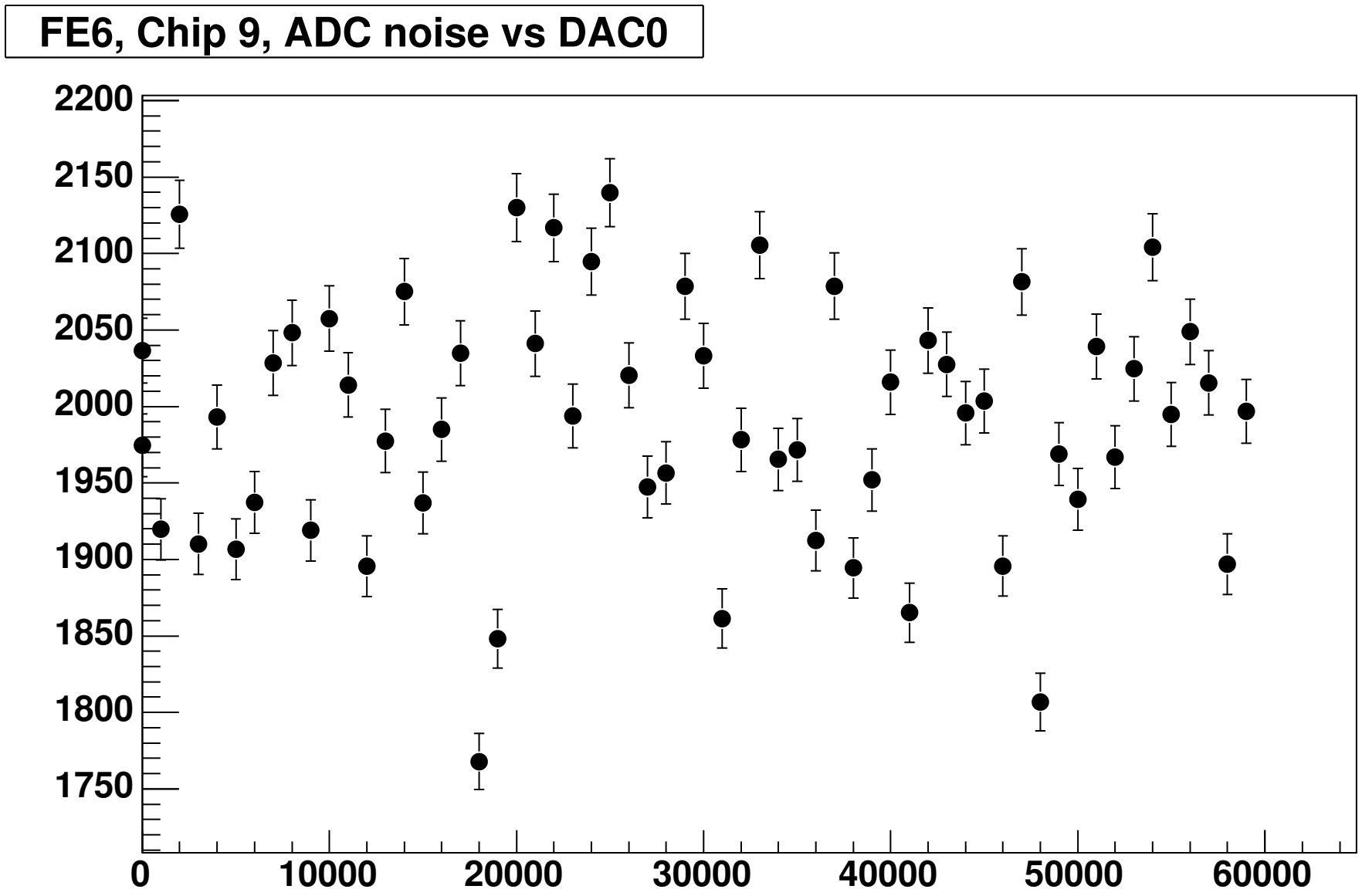
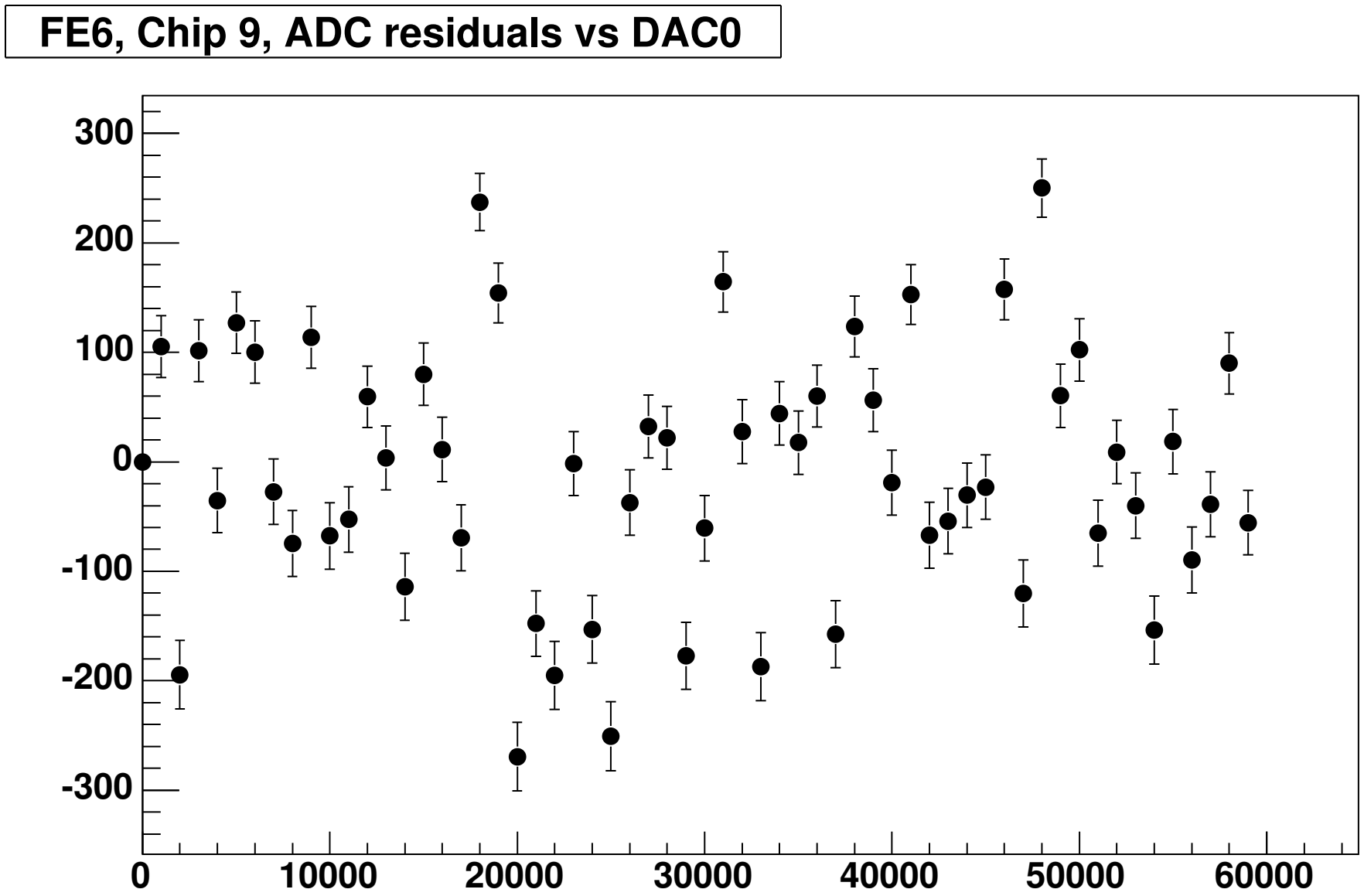
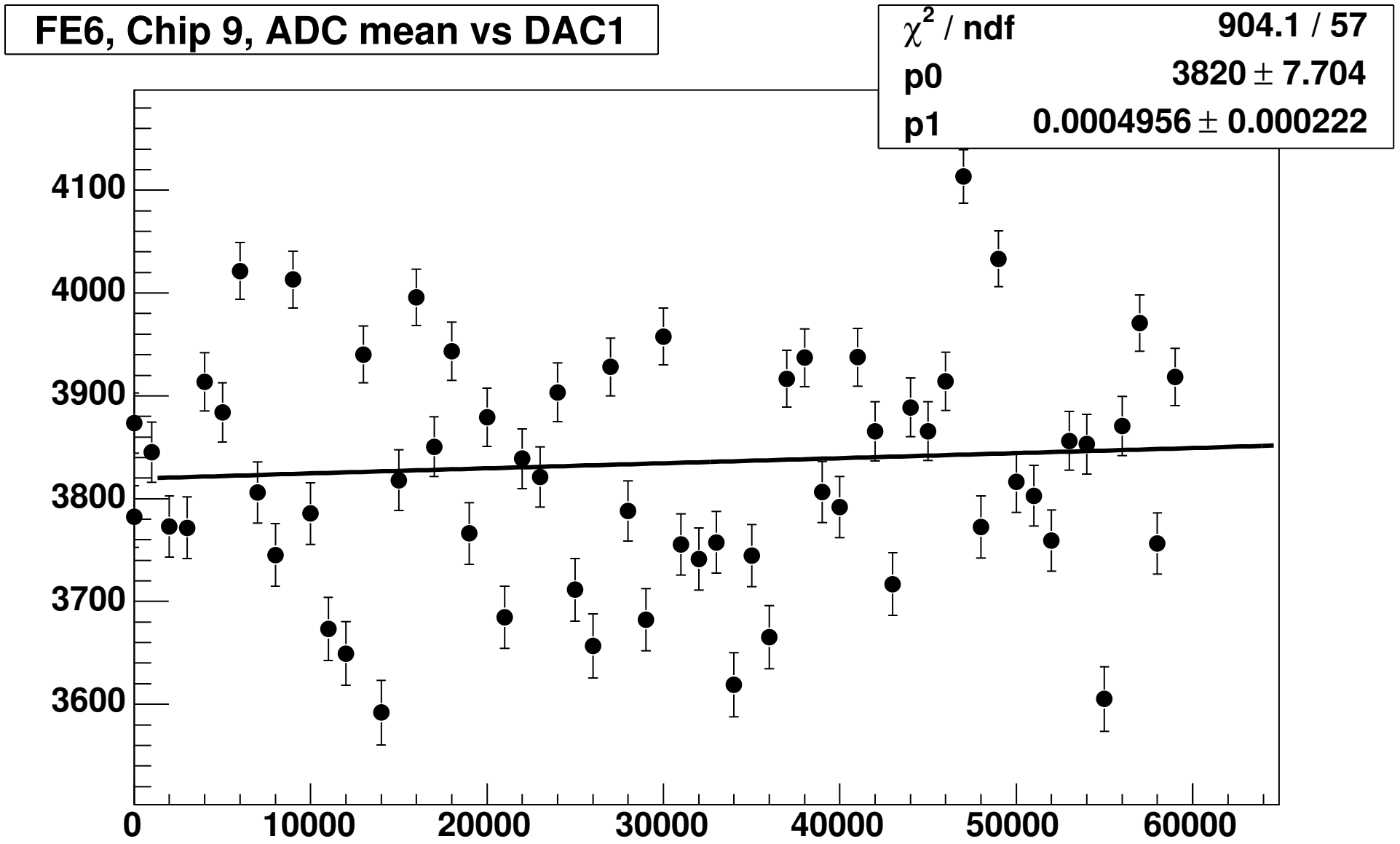
50000
60000


FE6, Chip 9, ADC noise vs DAC0
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
60000


FE6, Chip 9, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 9, ADC mean vs DAC1
χ² / ndf 904.1 / 57
p0 3820 ± 7.704
p1 0.0004956 ± 0.000222
4100
4000
3900
3800
3700
3600
0
10000
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40000
50000
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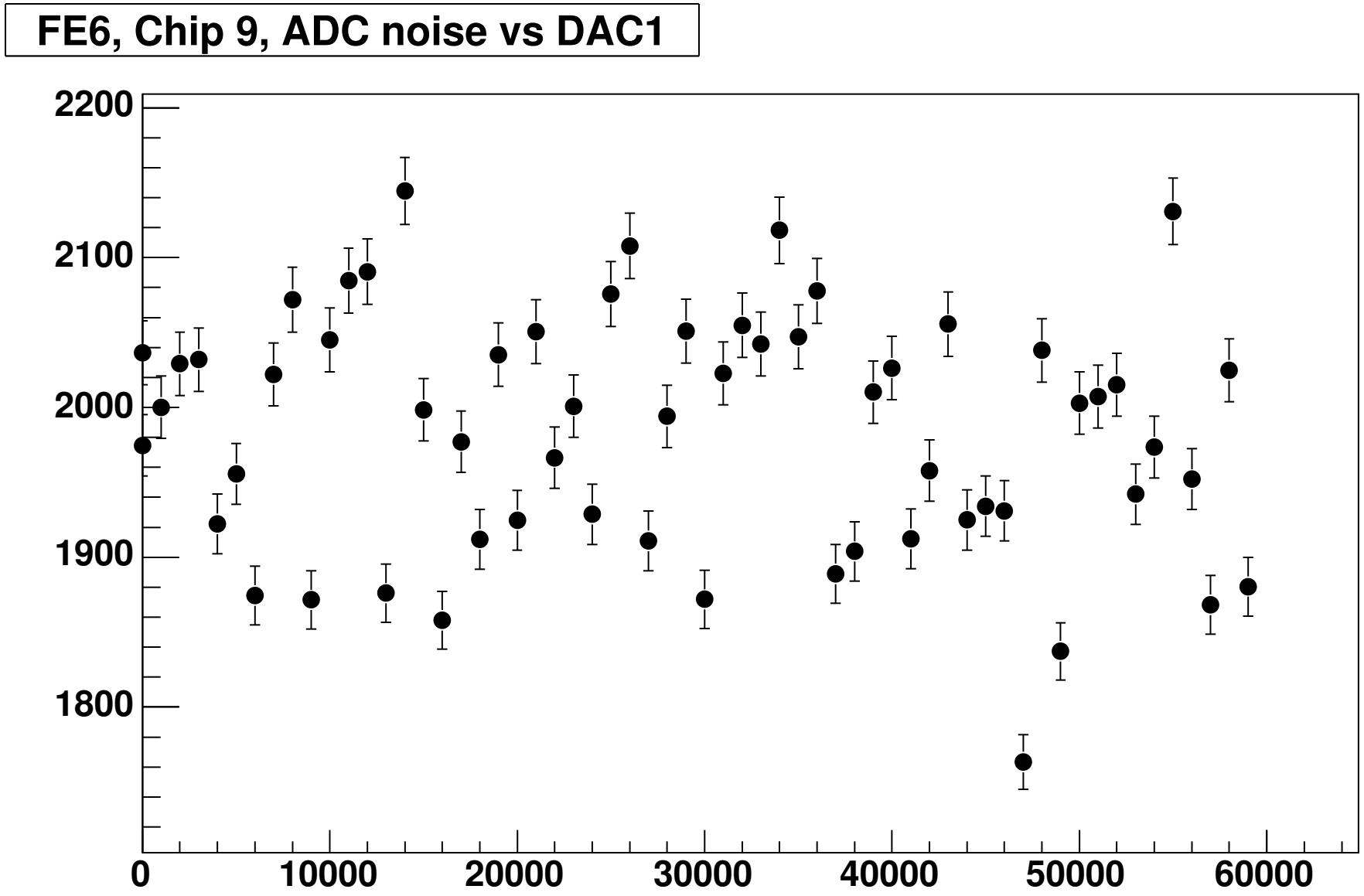
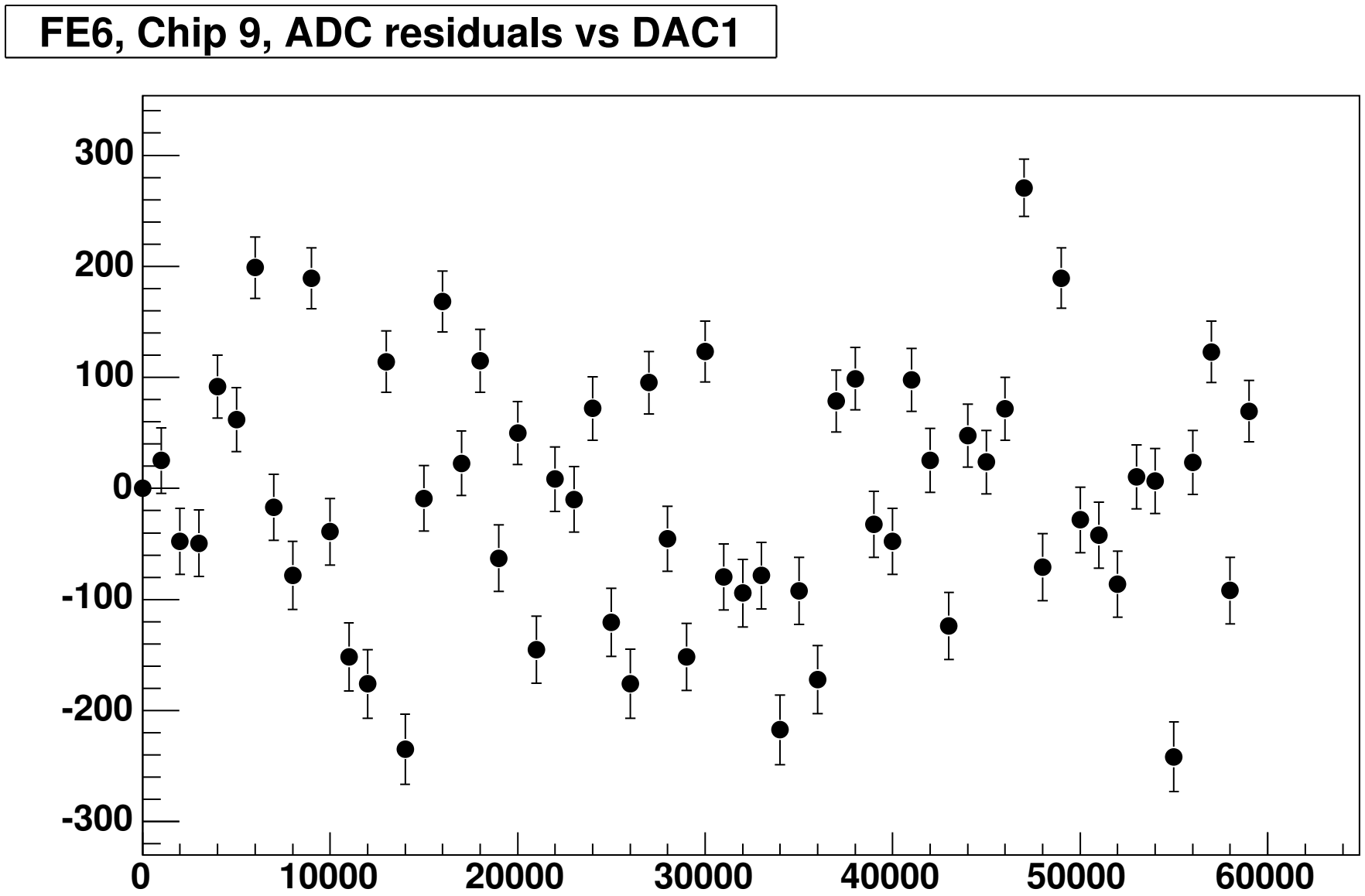

FE6, Chip 9, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE6, Chip 9, ADC residuals vs DAC1
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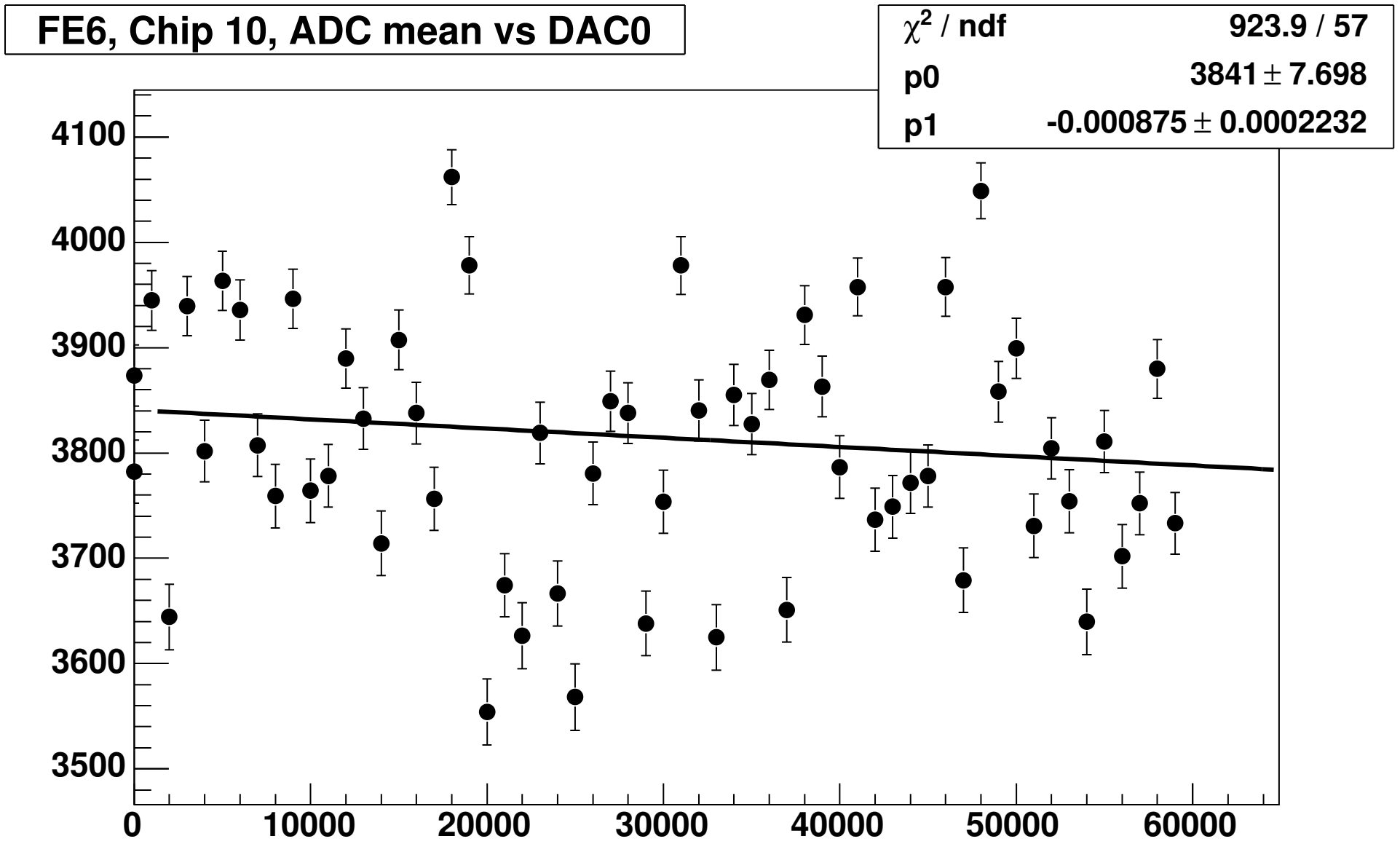
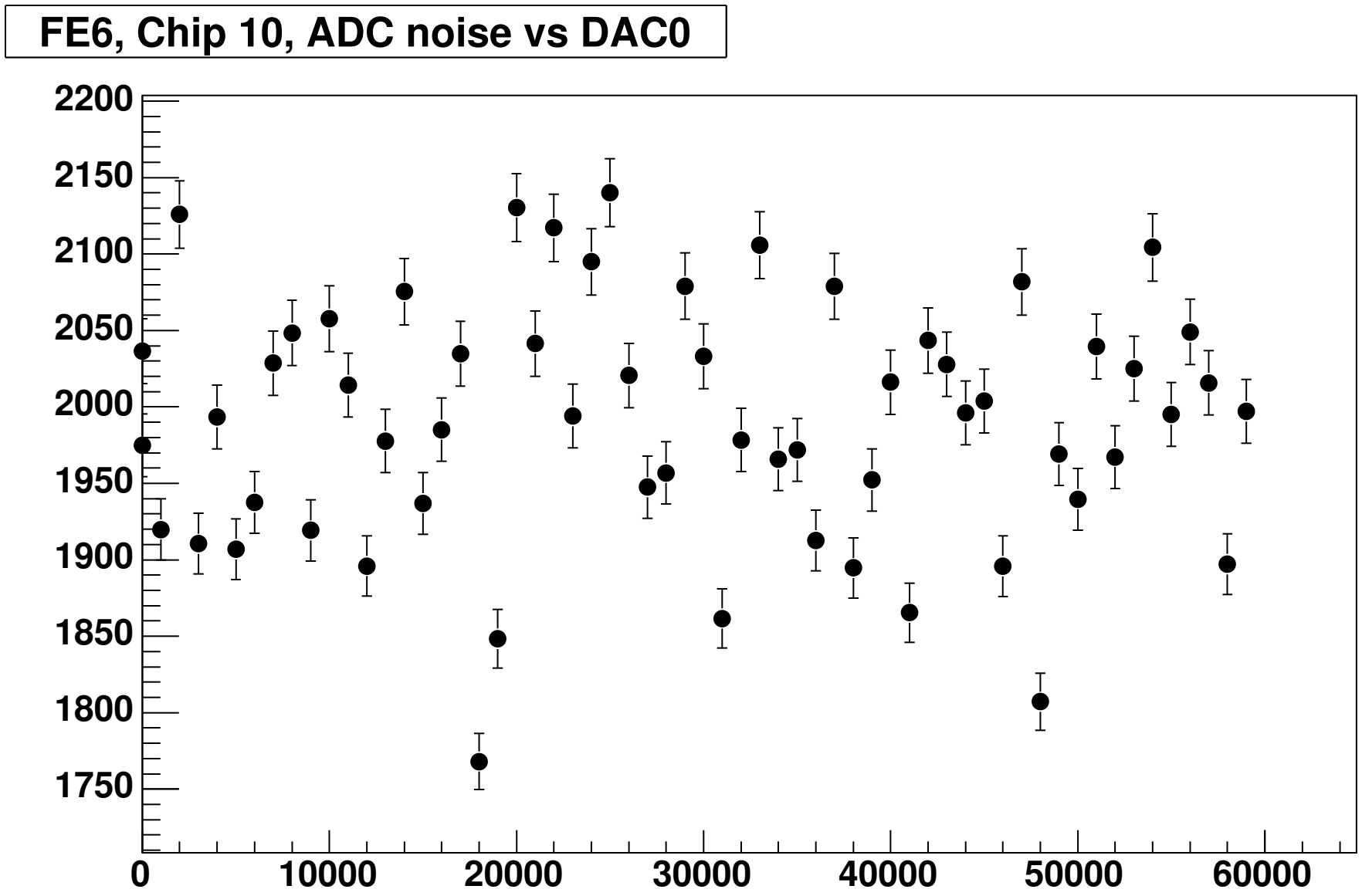
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 10, ADC mean vs DAC0
χ² / ndf 923.9 / 57
p0 3841 ± 7.698
p1 -0.000875 ± 0.0002232
4100
4000
3900
3800
3700
3600
3500
0
10000
20000
30000
40000
50000
60000


FE6, Chip 10, ADC noise vs DAC0
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
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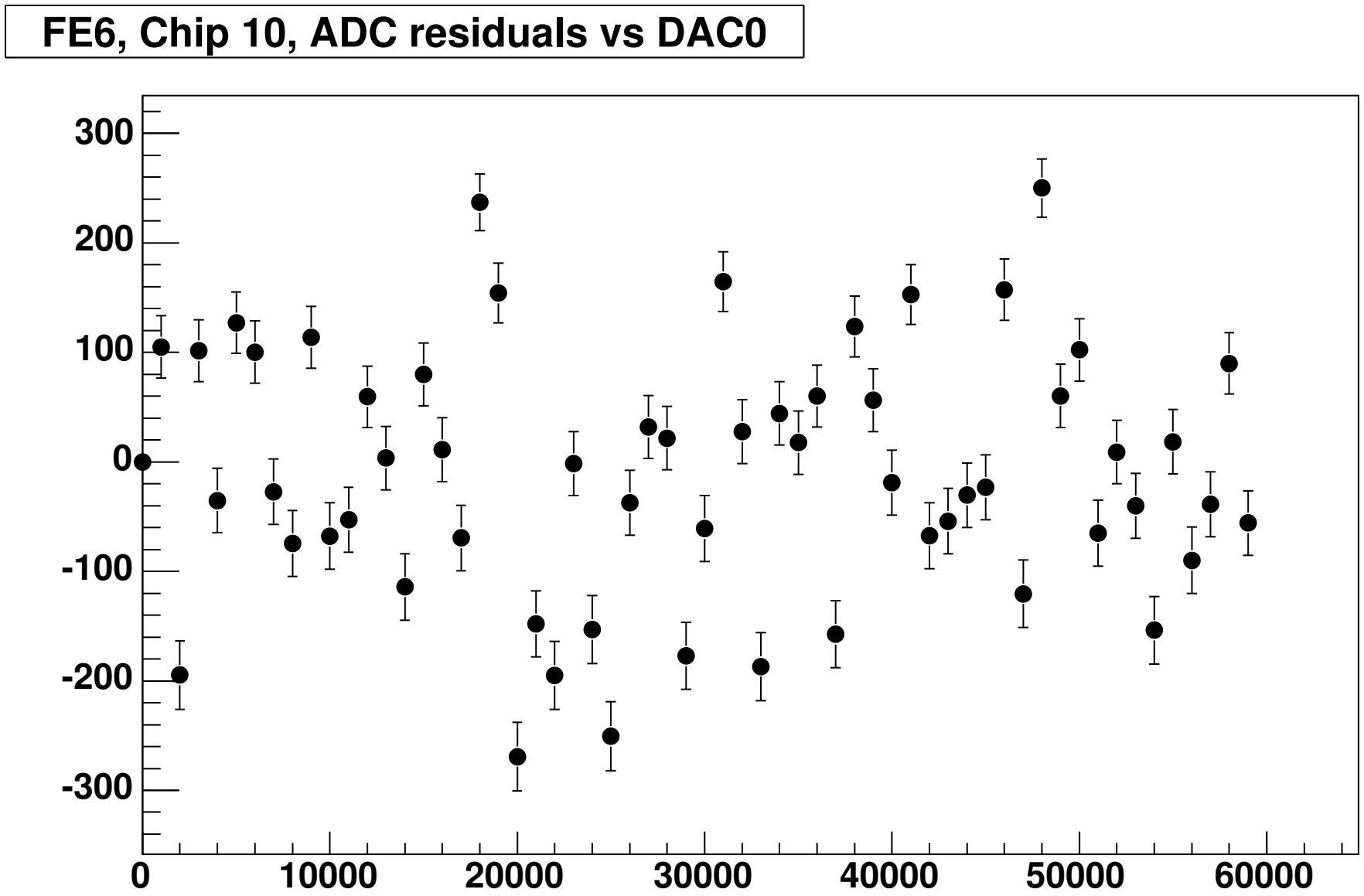
40000
50000
60000


FE6, Chip 10, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
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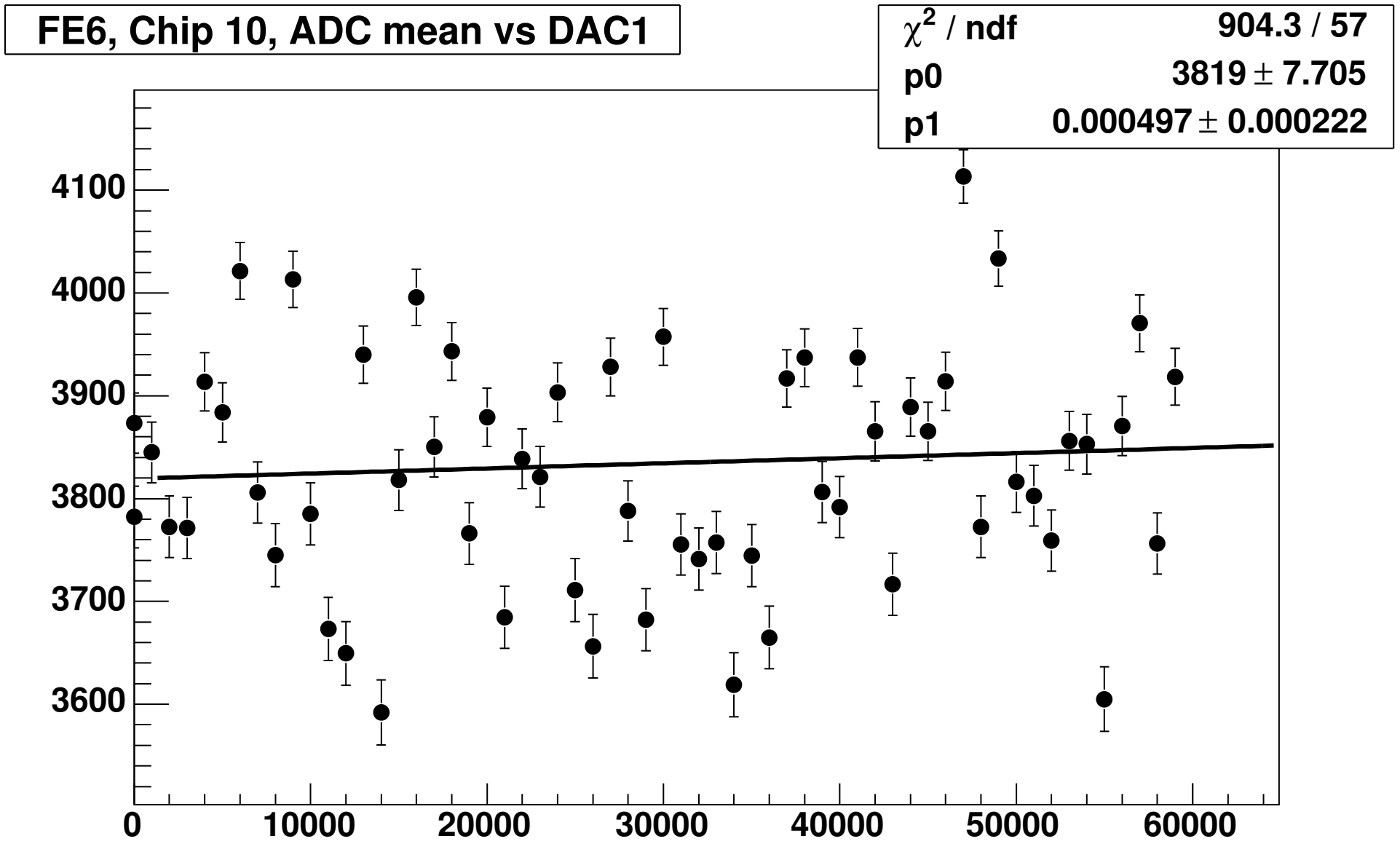
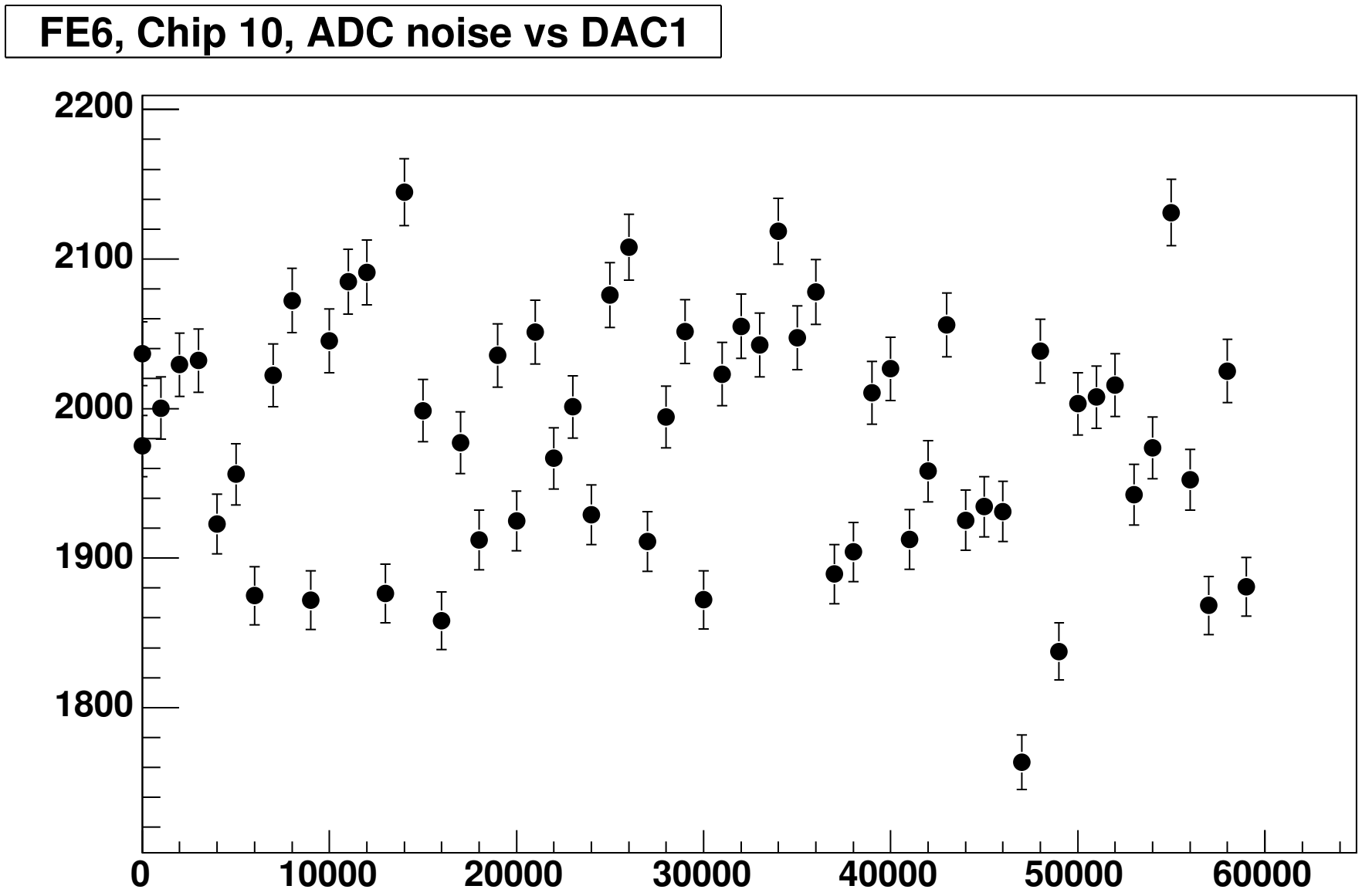
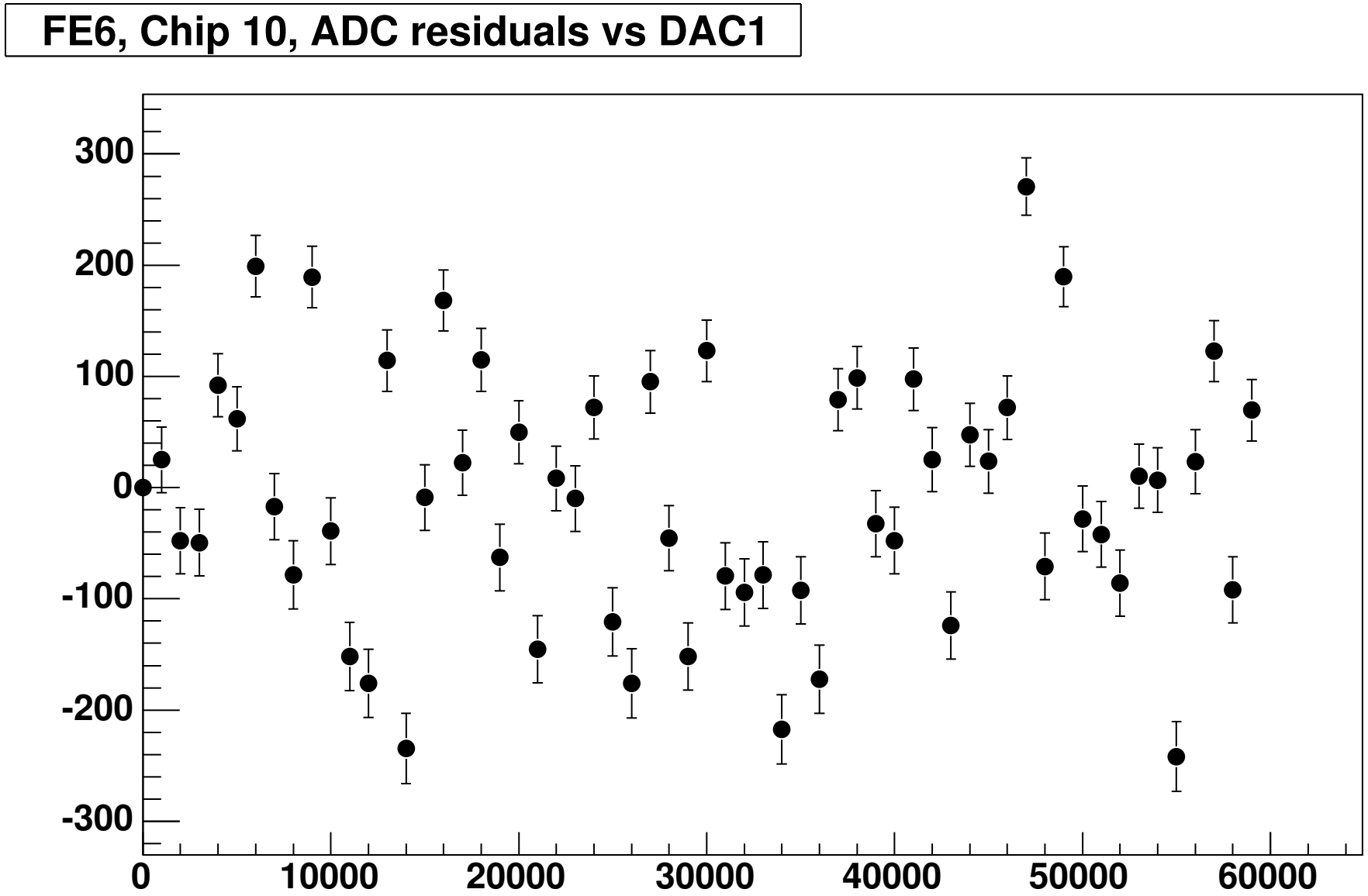
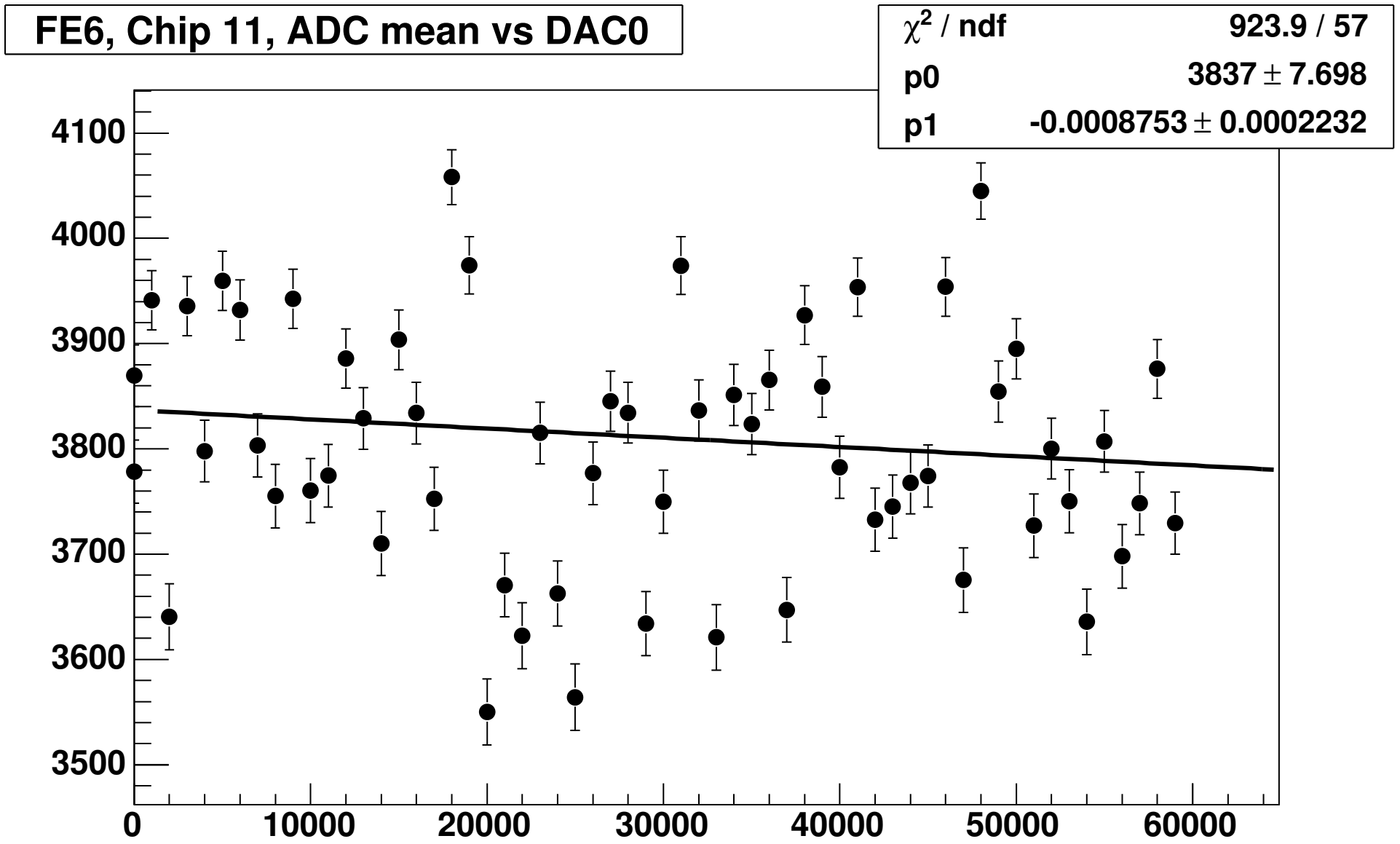
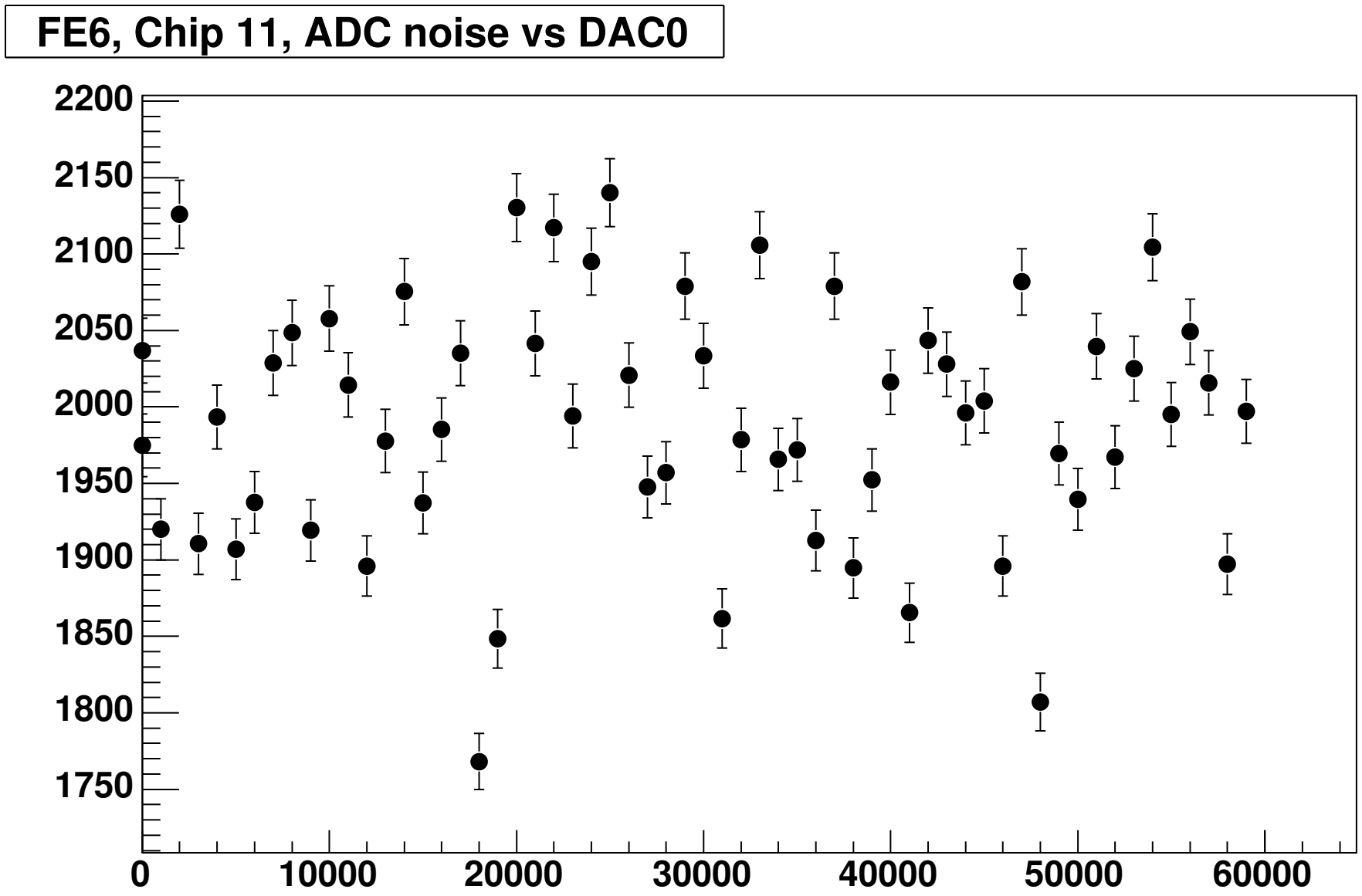
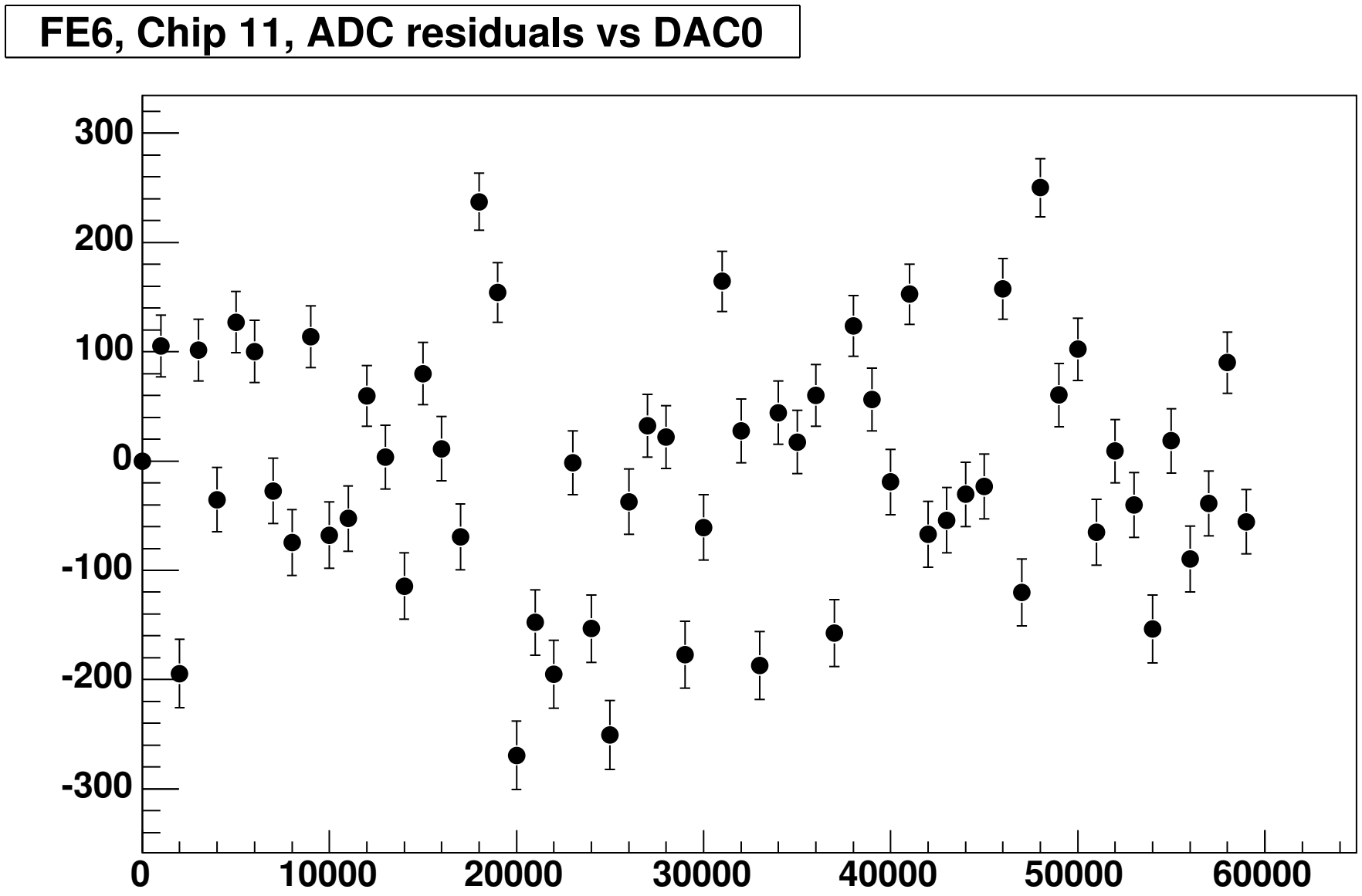

FE6, Chip 10, ADC mean vs DAC1
χ² / ndf 904.3 / 57
p0 3819 ± 7.705
p1 0.000497 ± 0.000222
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000

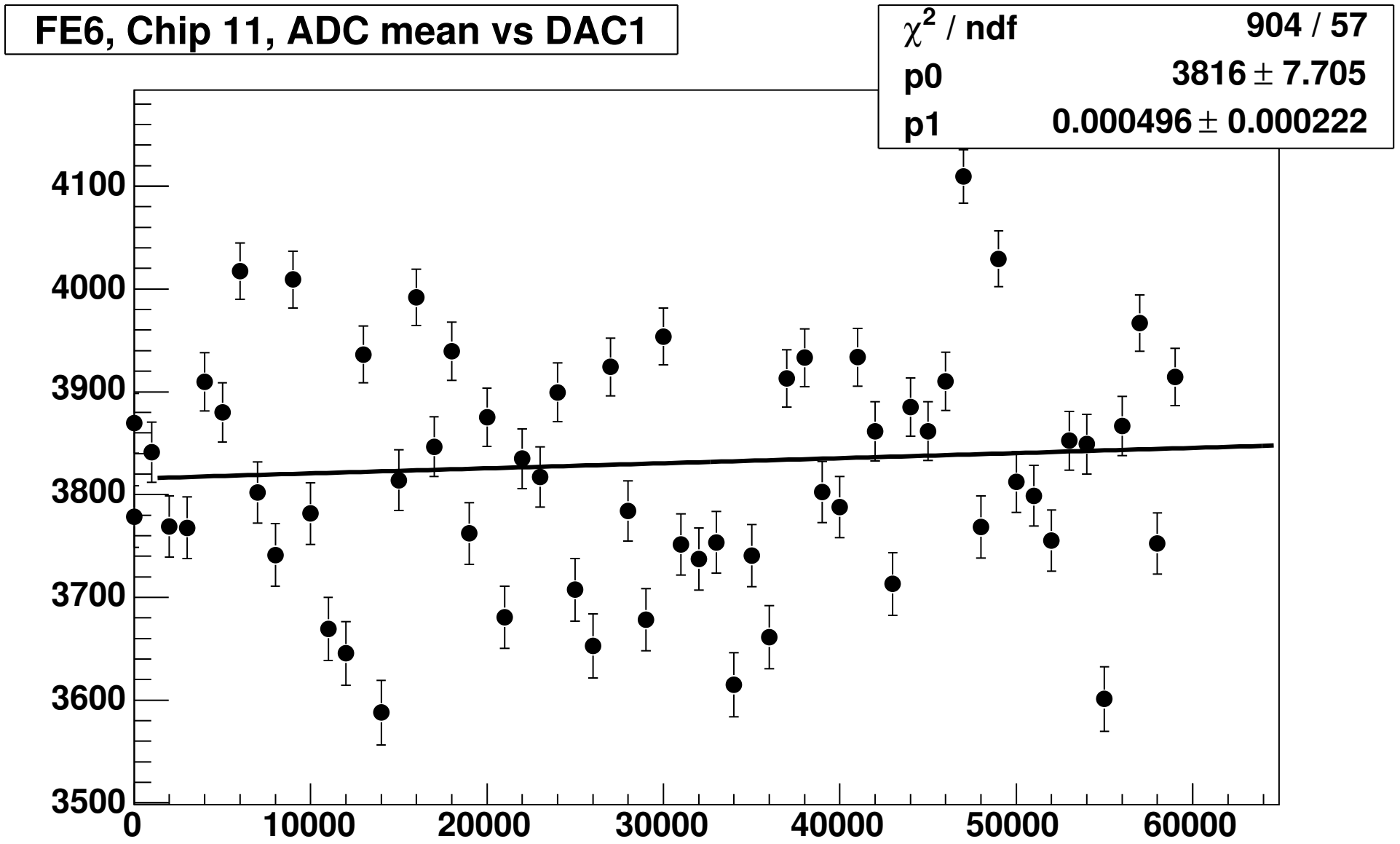

FE6, Chip 10, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE6, Chip 10, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 11, ADC mean vs DAC0
χ^2 / ndf 923.9 / 57
p0 3837 ± 7.698
p1 -0.0008753 ± 0.0002232
4100
4000
3900
3800
3700
3600
3500
0
10000
20000
30000
40000
50000
60000


FE6, Chip 11, ADC noise vs DAC0
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
60000


FE6, Chip 11, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE6, Chip 11, ADC mean vs DAC1
χ² / ndf 904 / 57
p0 3816 ± 7.705
p1 0.000496 ± 0.000222
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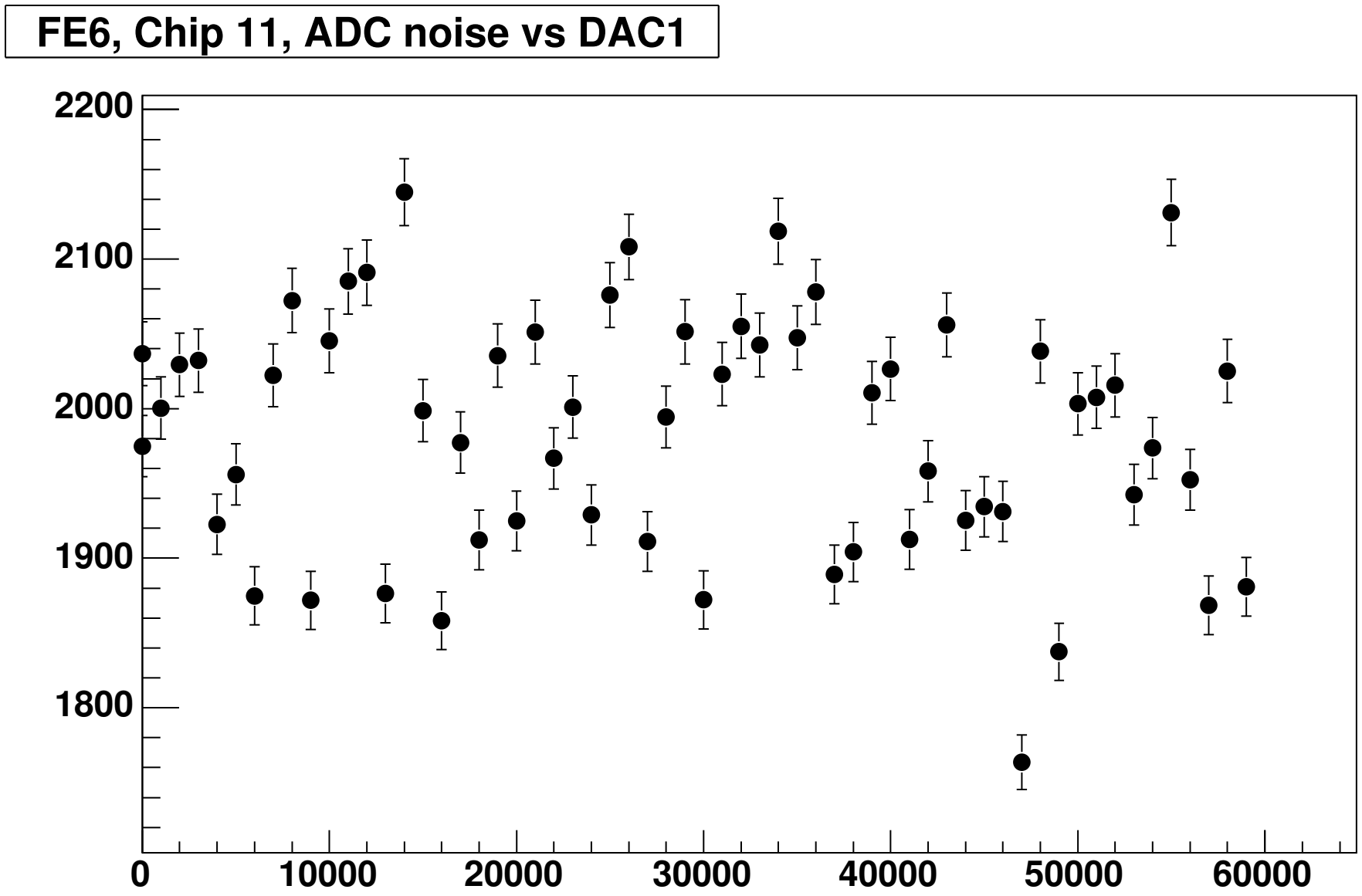
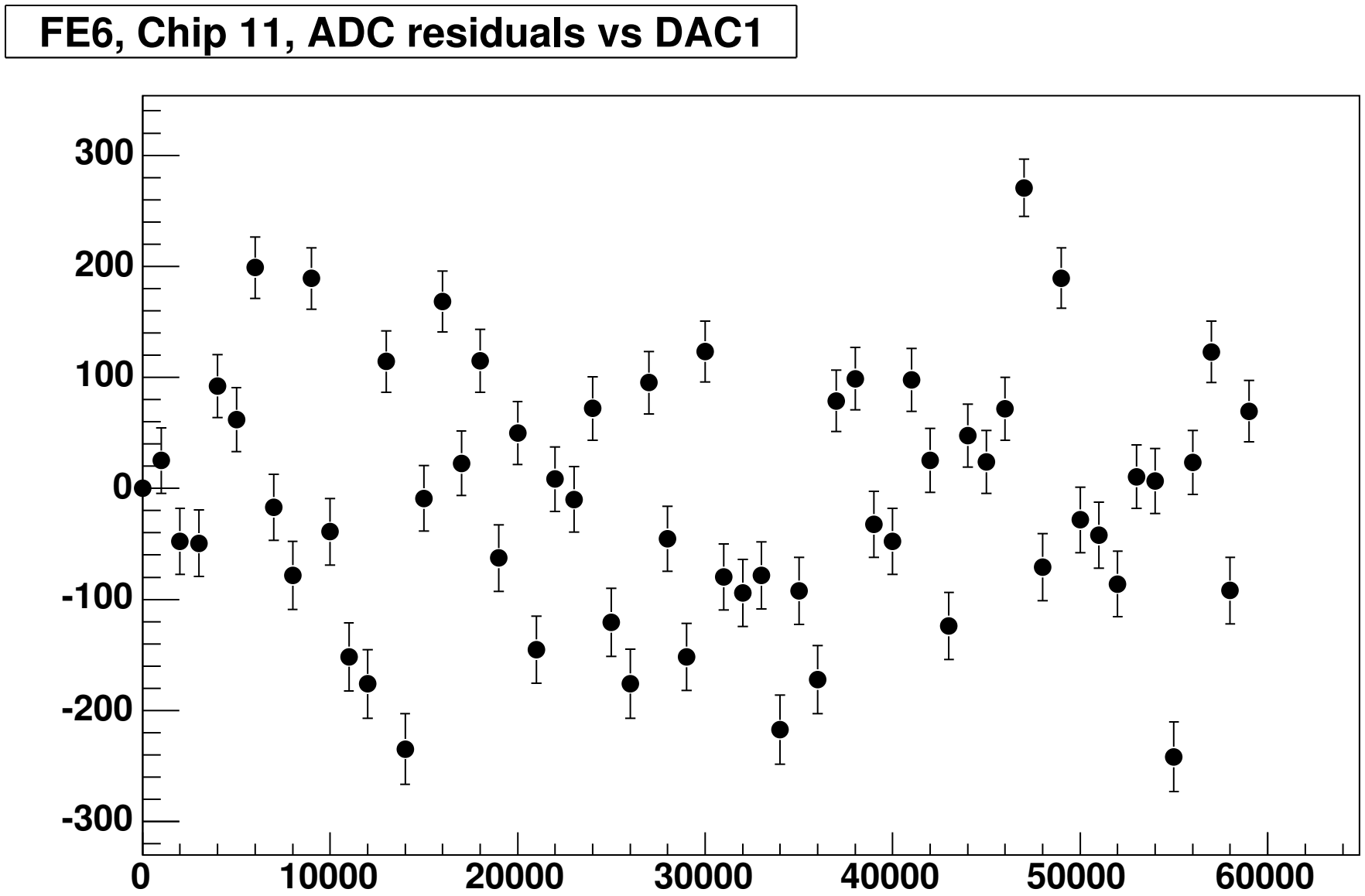
4000
3900
3800
3700
3600
3500
0
10000
20000
30000
40000
50000
60000


FE6, Chip 11, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE6, Chip 11, ADC residuals vs DAC1
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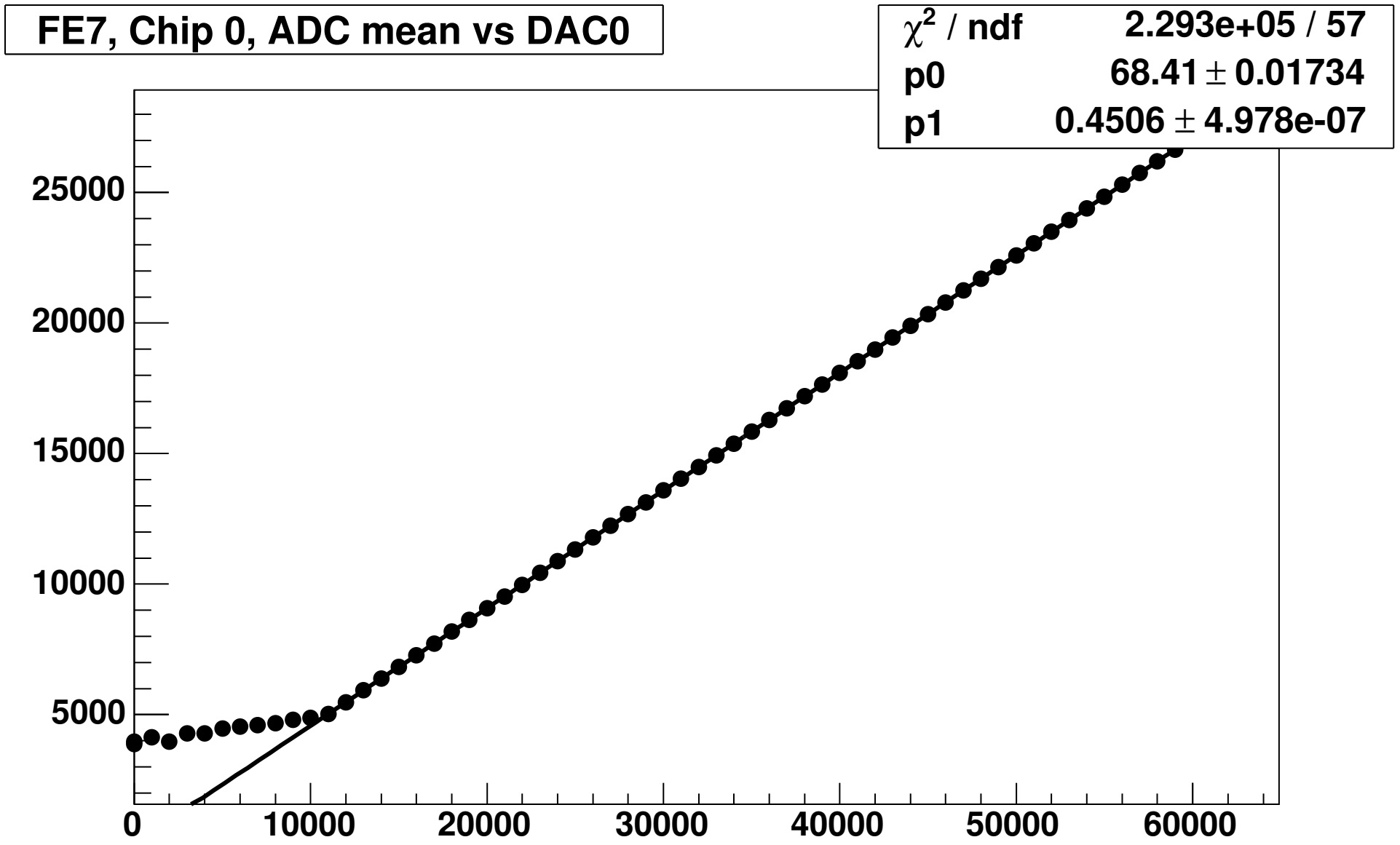
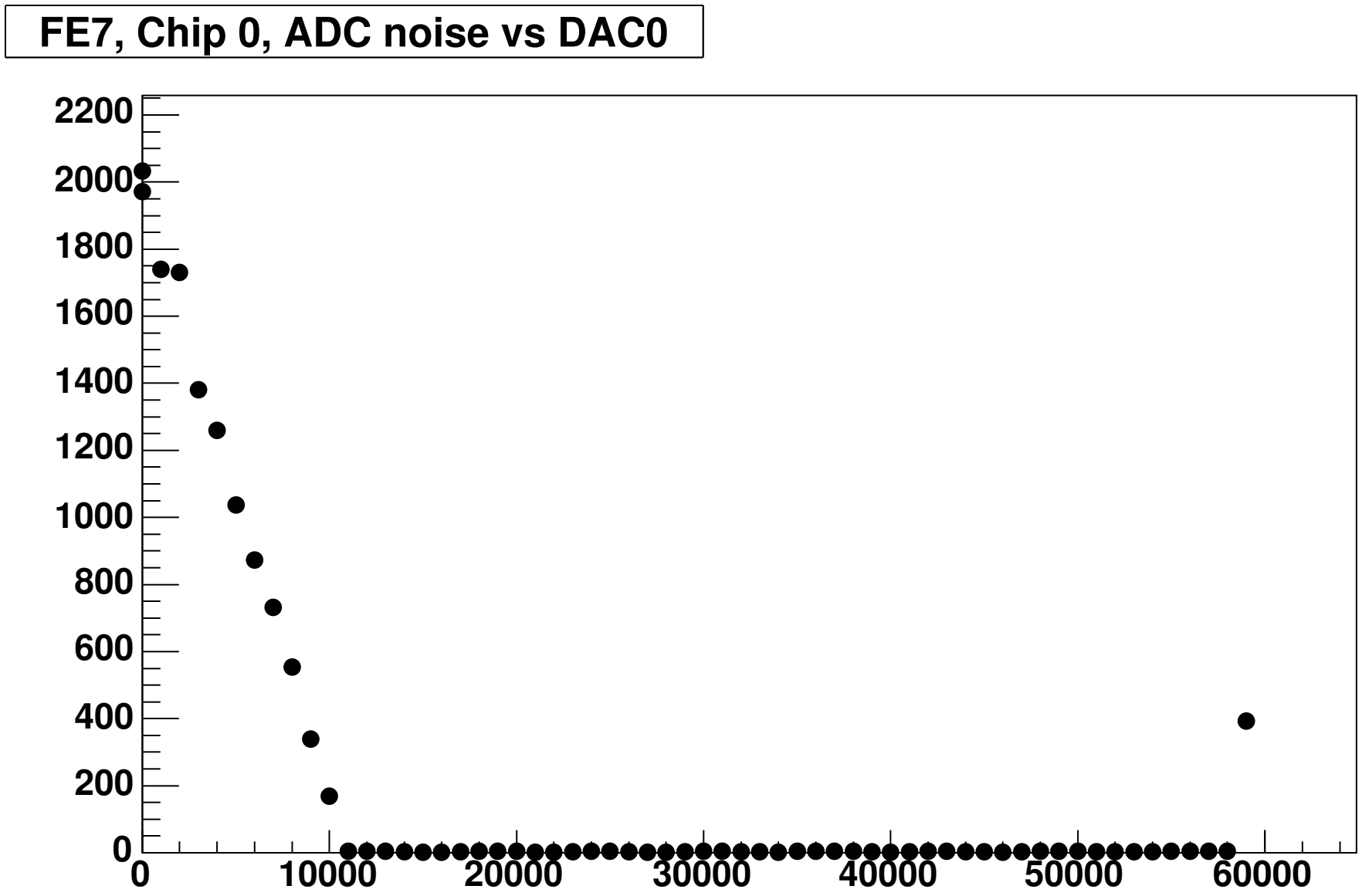
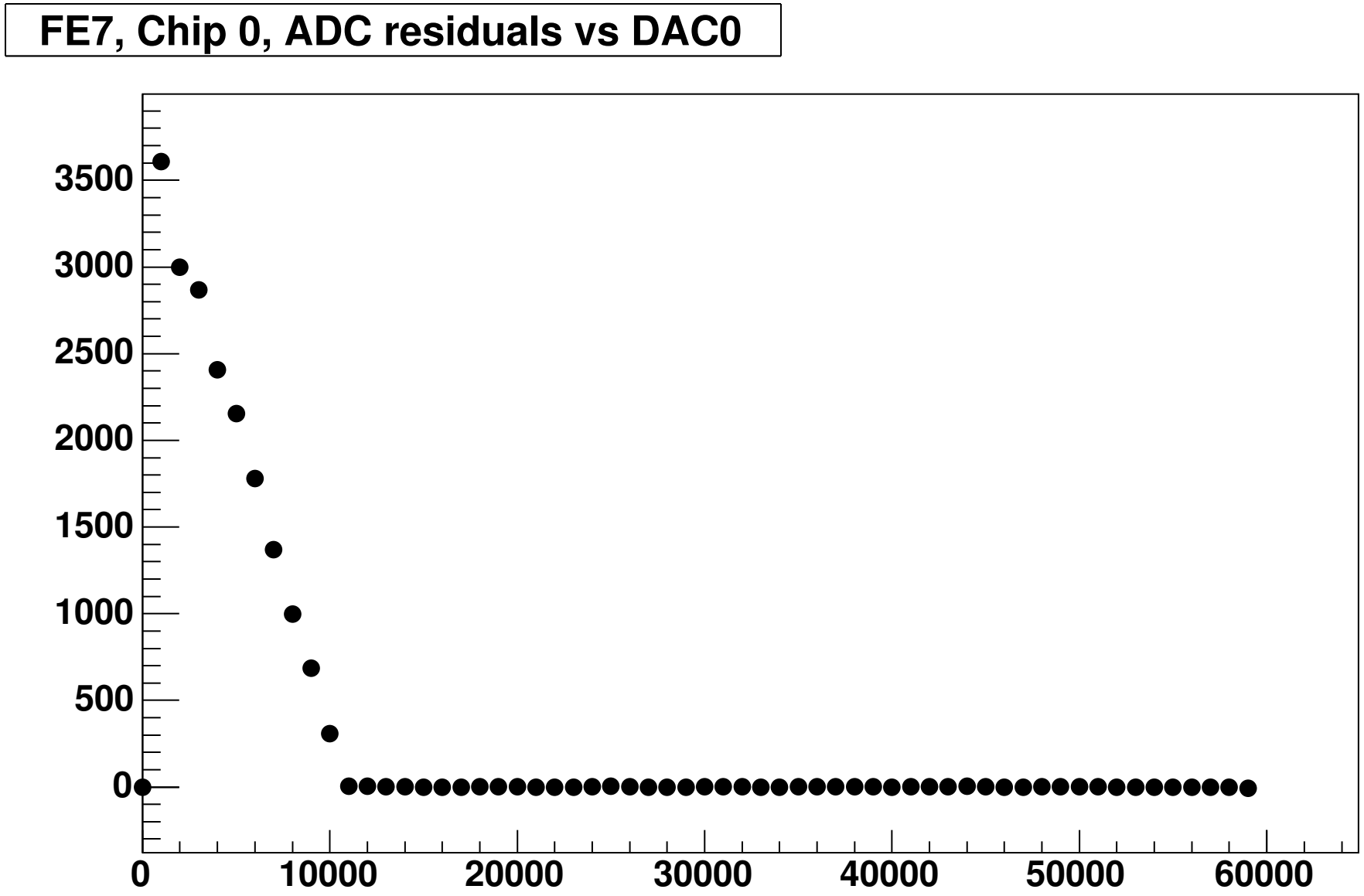
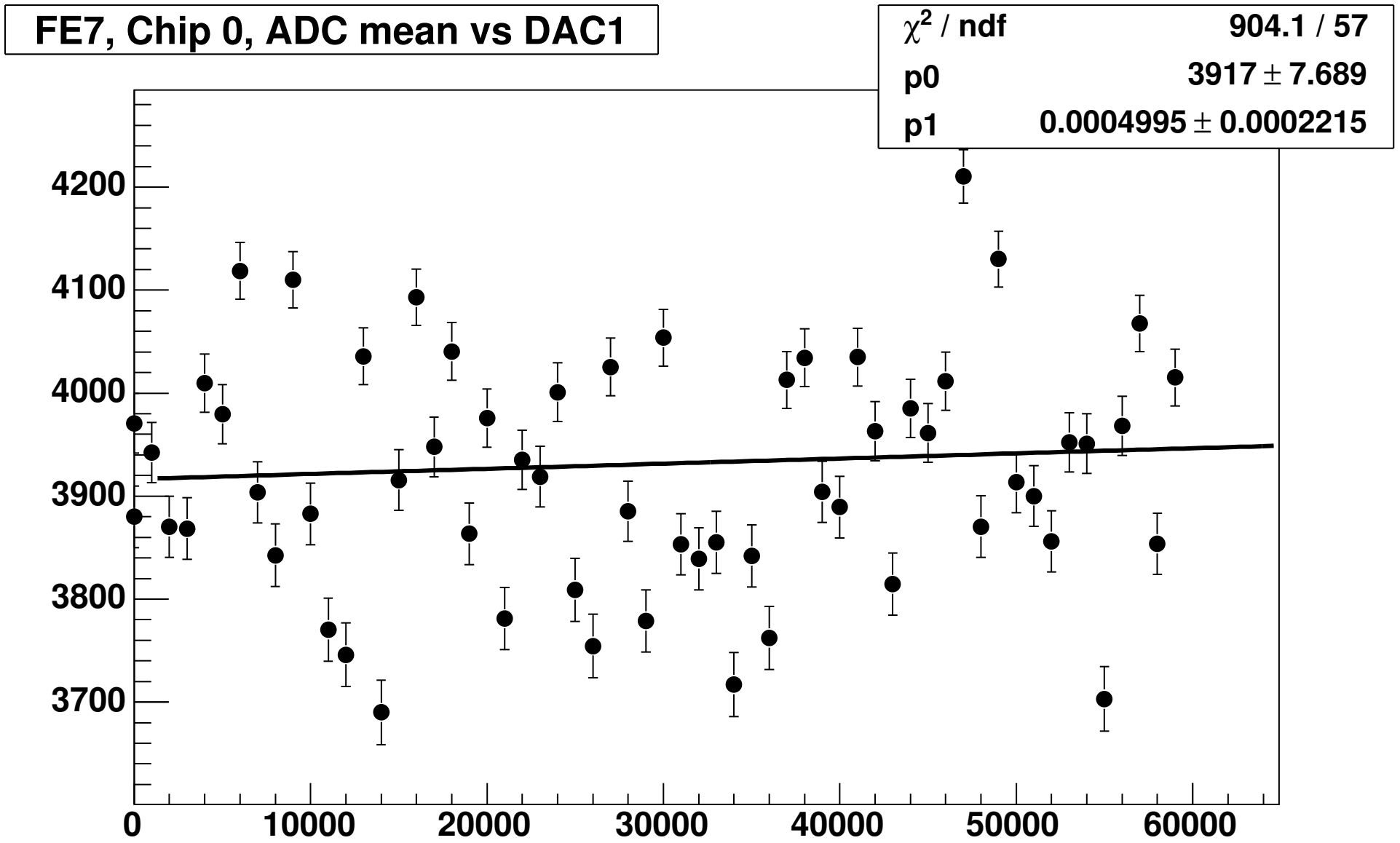
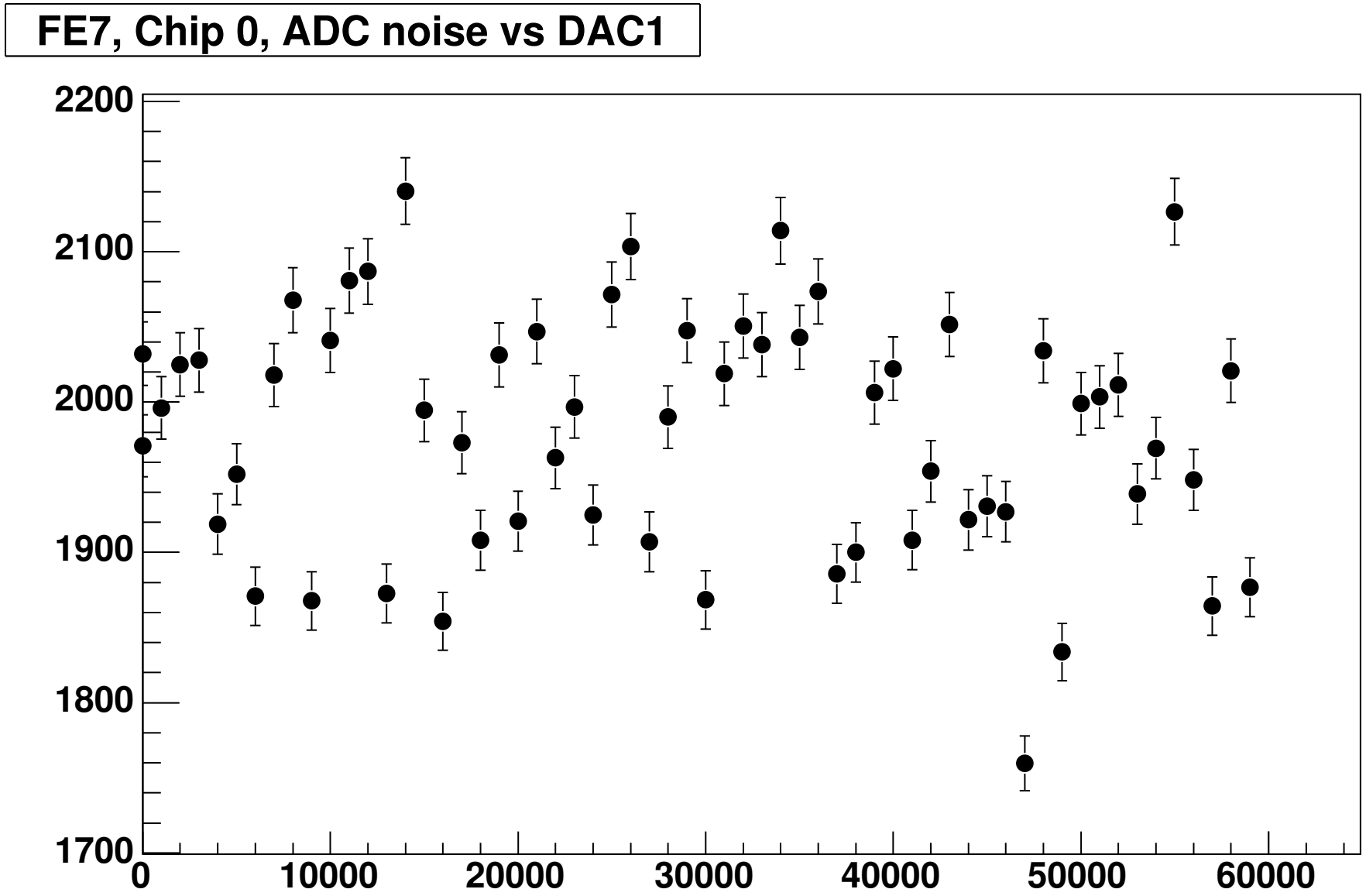
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

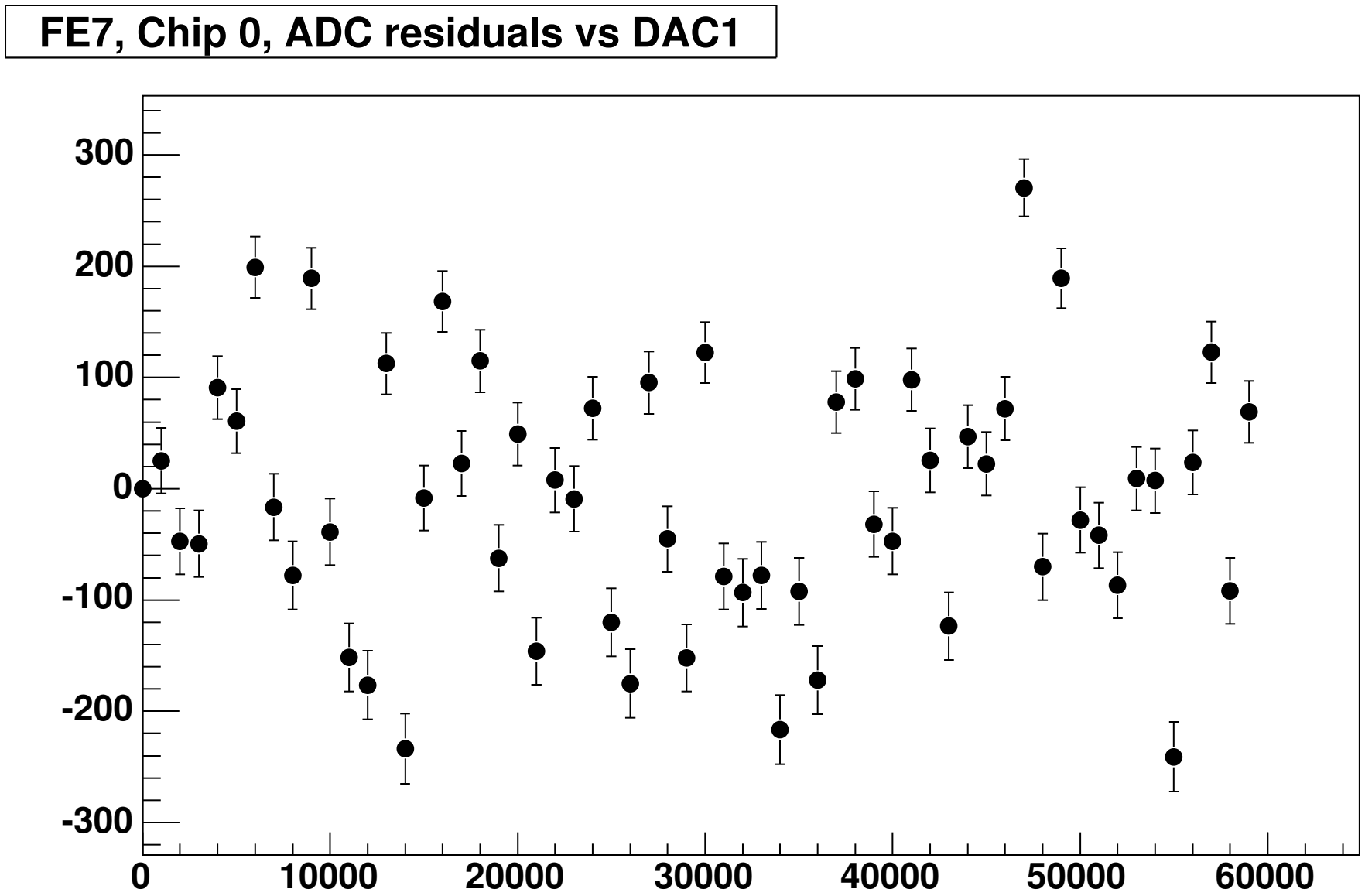

FE7, Chip 0, ADC mean vs DAC0
χ² / ndf 2.293e+05 / 57
p0 68.41 ± 0.01734
p1 0.4506 ± 4.978e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

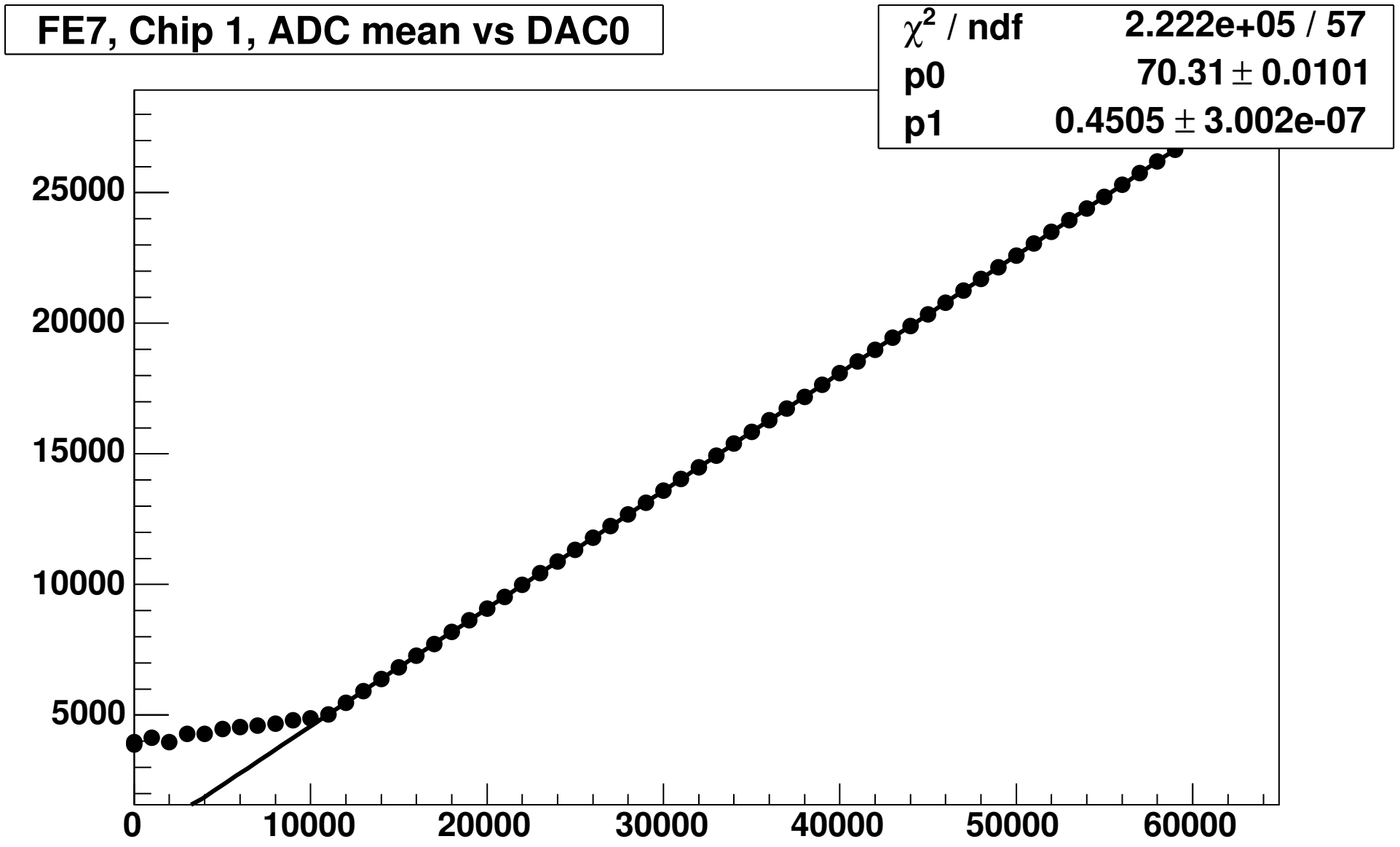

FE7, Chip 0, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

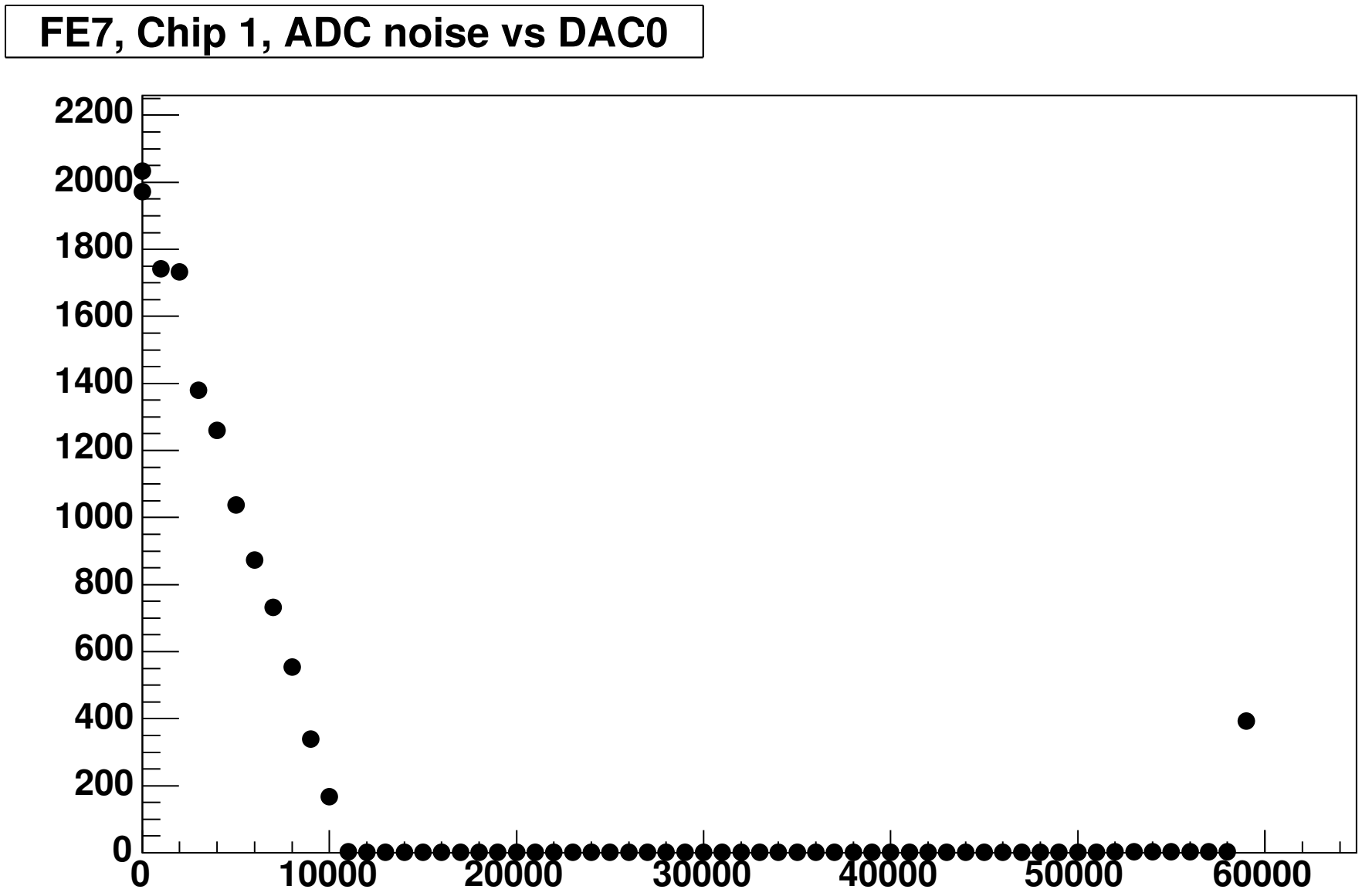

FE7, Chip 0, ADC residuals vs DAC0
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

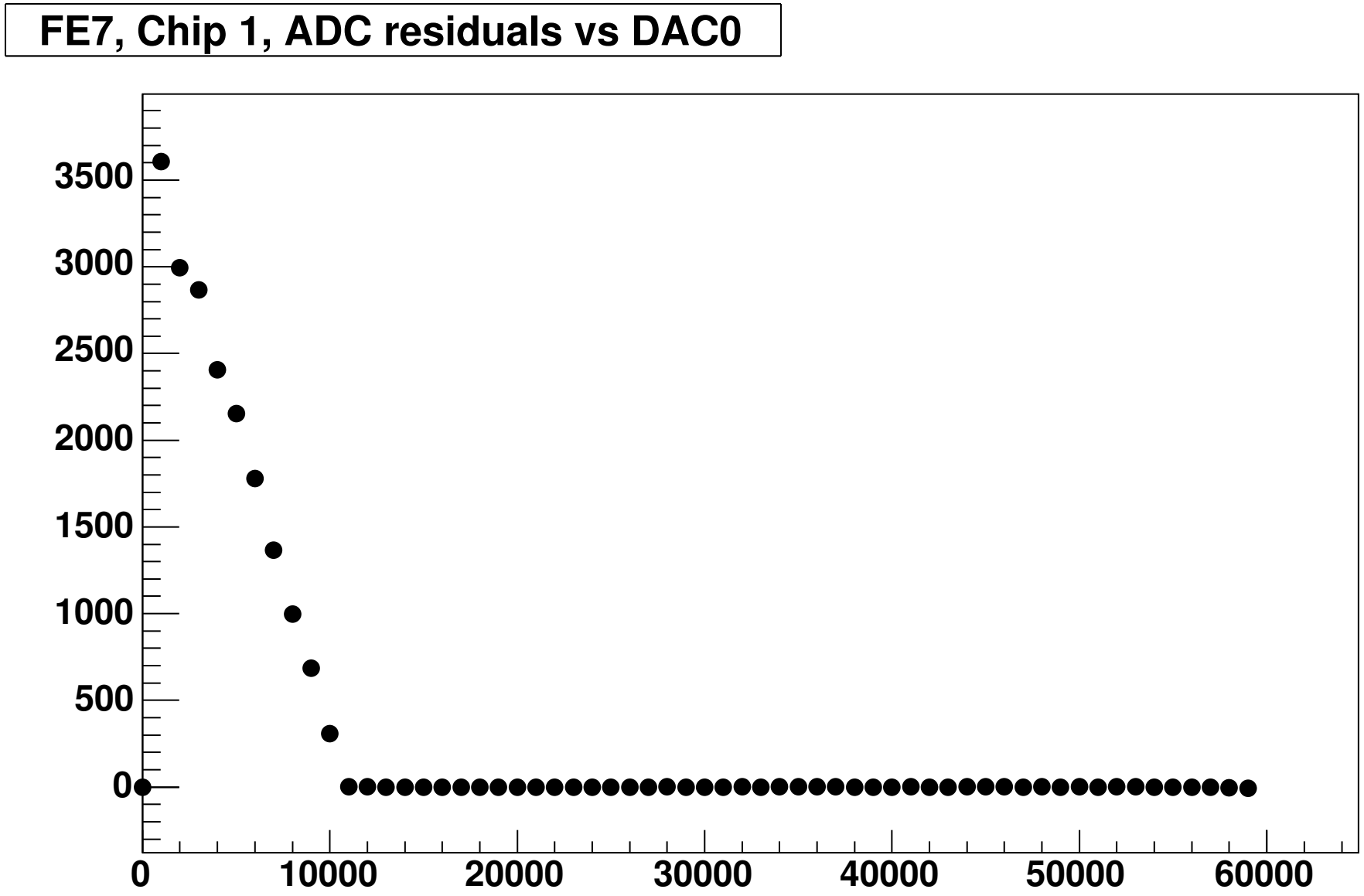

FE7, Chip 0, ADC mean vs DAC1
χ^2 / ndf 904.1 / 57
p0 3917 ± 7.689
p1 0.0004995 ± 0.0002215
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000

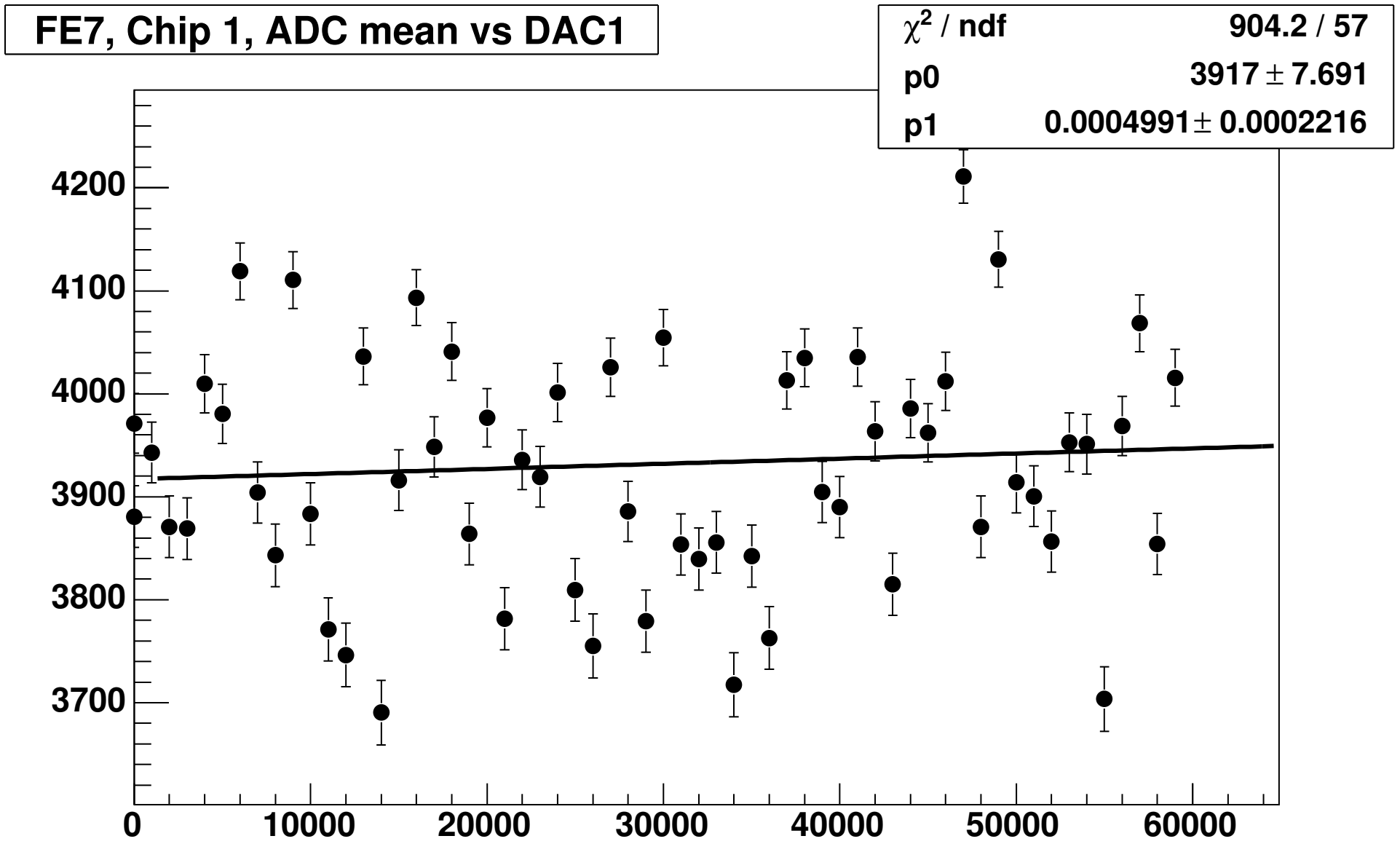

FE7, Chip 0, ADC noise vs DAC1
2200
2100
2000
1900
1800
1700
0
10000
20000
30000
40000
50000
60000

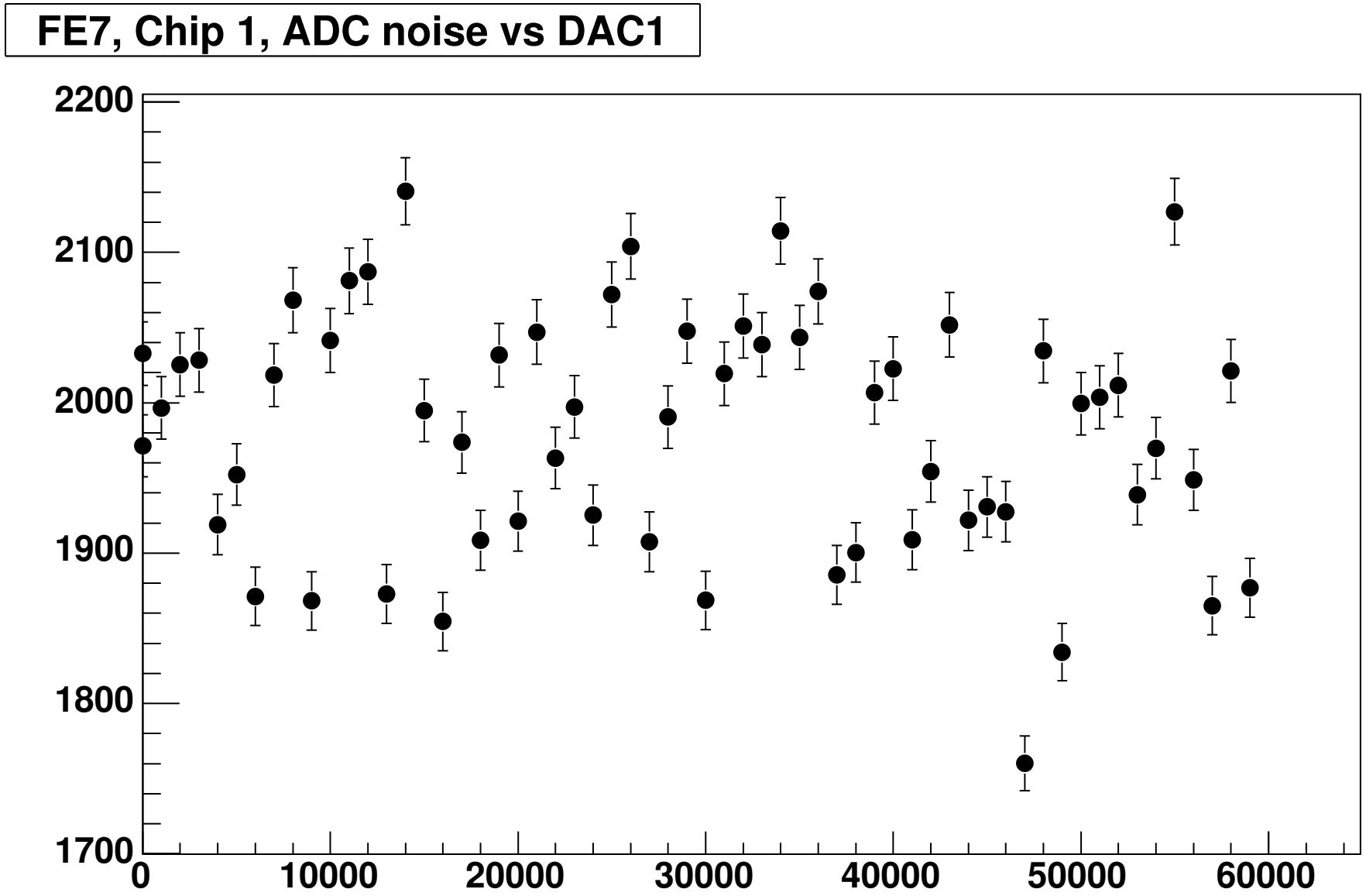

FE7, Chip 0, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

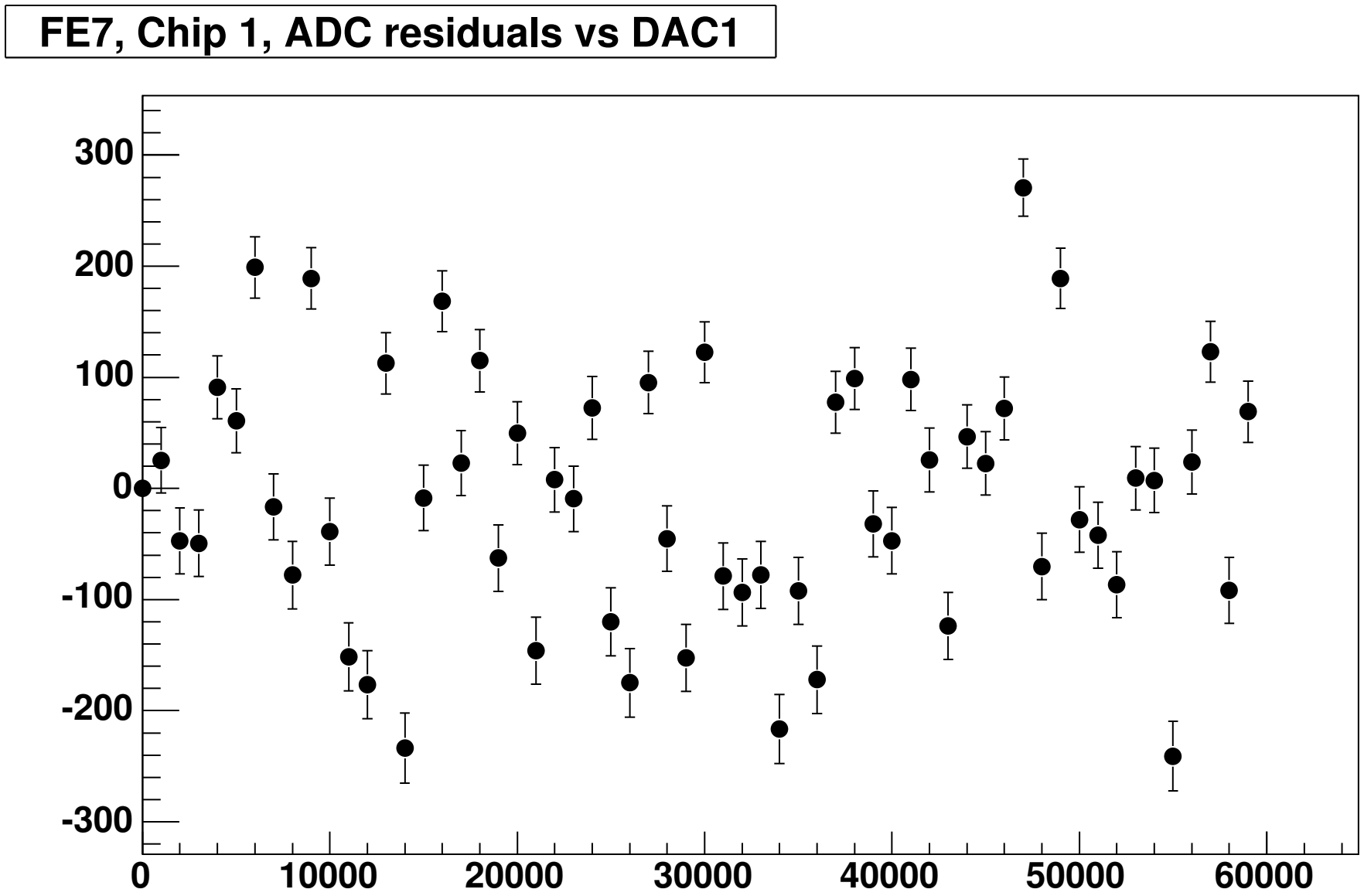

FE7, Chip 1, ADC mean vs DAC0
χ² / ndf 2.222e+05 / 57
p0 70.31 ± 0.0101
p1 0.4505 ± 3.002e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

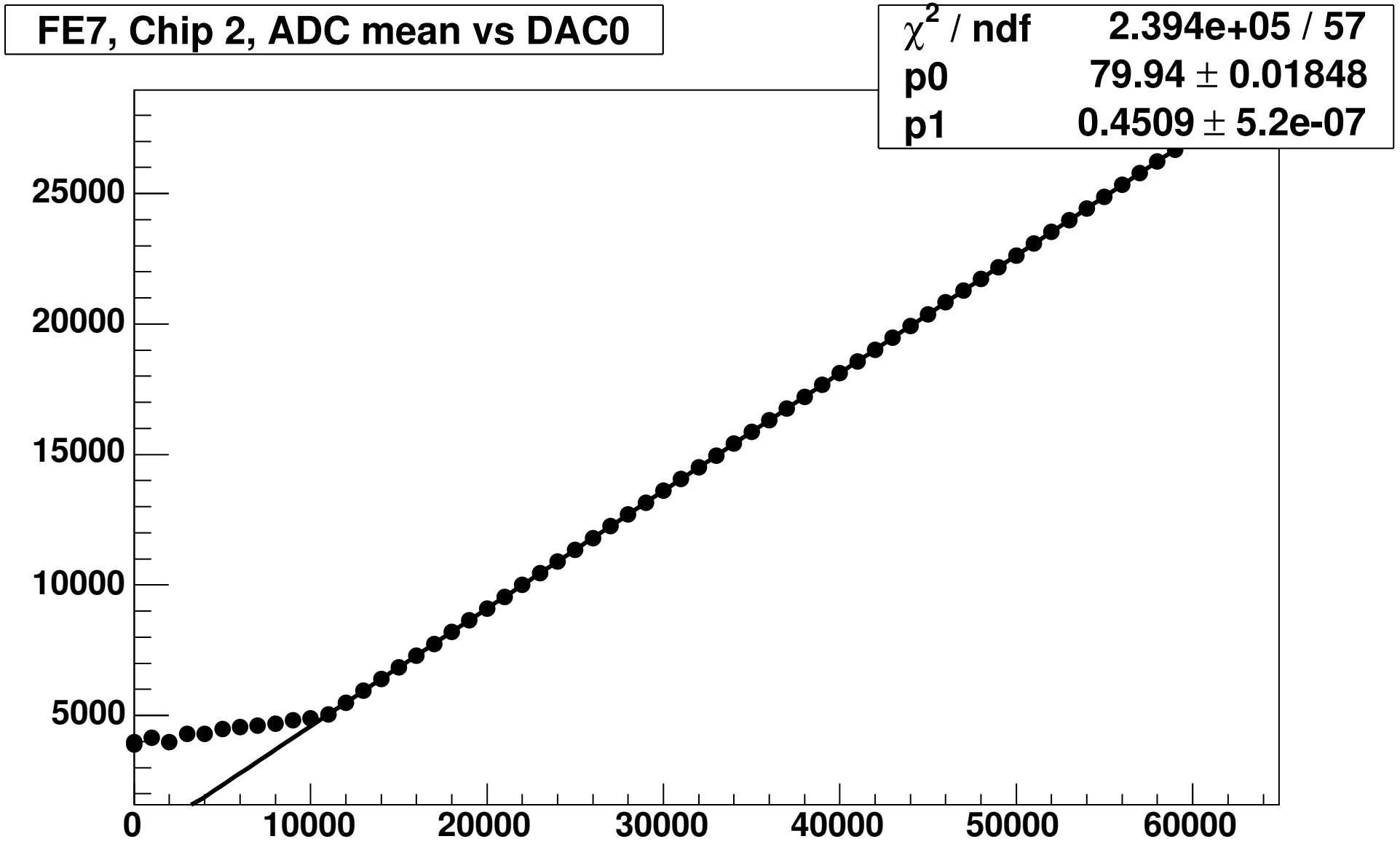

FE7, Chip 1, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 1, ADC residuals vs DAC0
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 1, ADC mean vs DAC1
χ² / ndf 904.2 / 57
p0 3917 ± 7.691
p1 0.0004991 ± 0.0002216
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE7, Chip 1, ADC noise vs DAC1
2200
2100
2000
1900
1800
1700
0
10000
20000
30000
40000
50000
60000


FE7, Chip 1, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE7, Chip 2, ADC mean vs DAC0
χ² / ndf 2.394e+05 / 57
p0 79.94 ± 0.01848
p1 0.4509 ± 5.2e-07
25000
20000
15000
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0
10000
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30000
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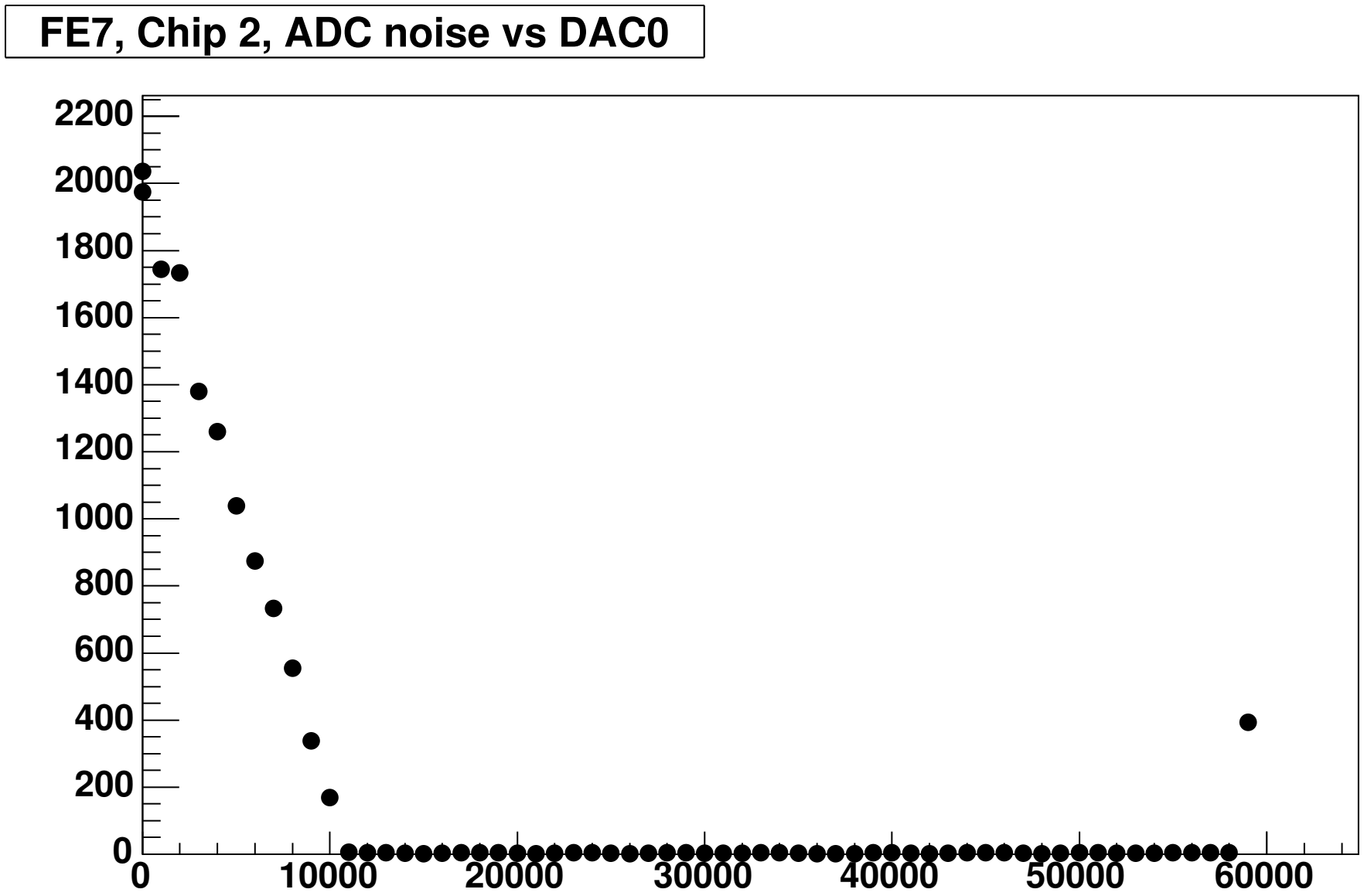
50000
60000


FE7, Chip 2, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
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0
10000
20000
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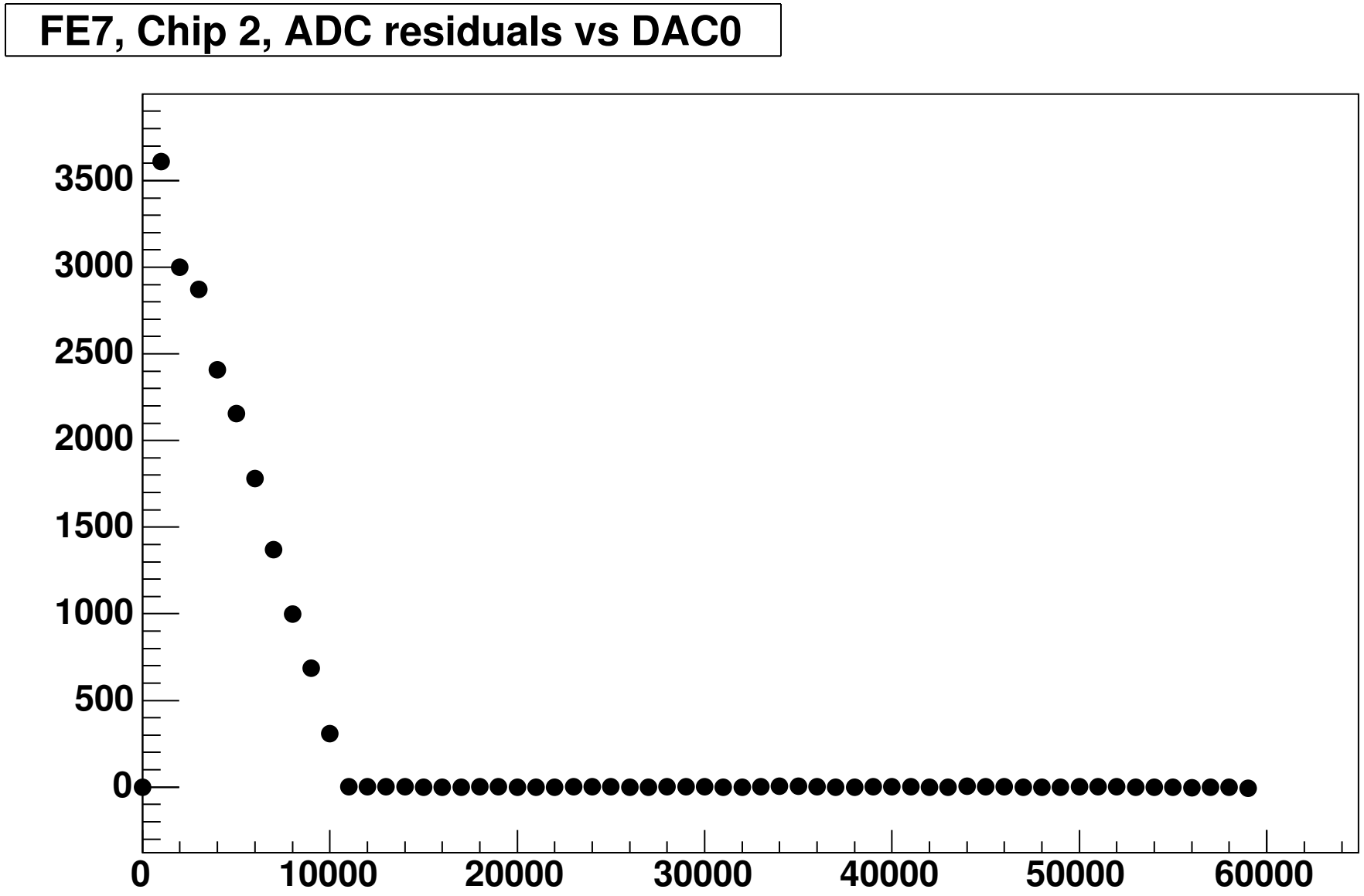
FE7, Chip 2, ADC residuals vs DAC0
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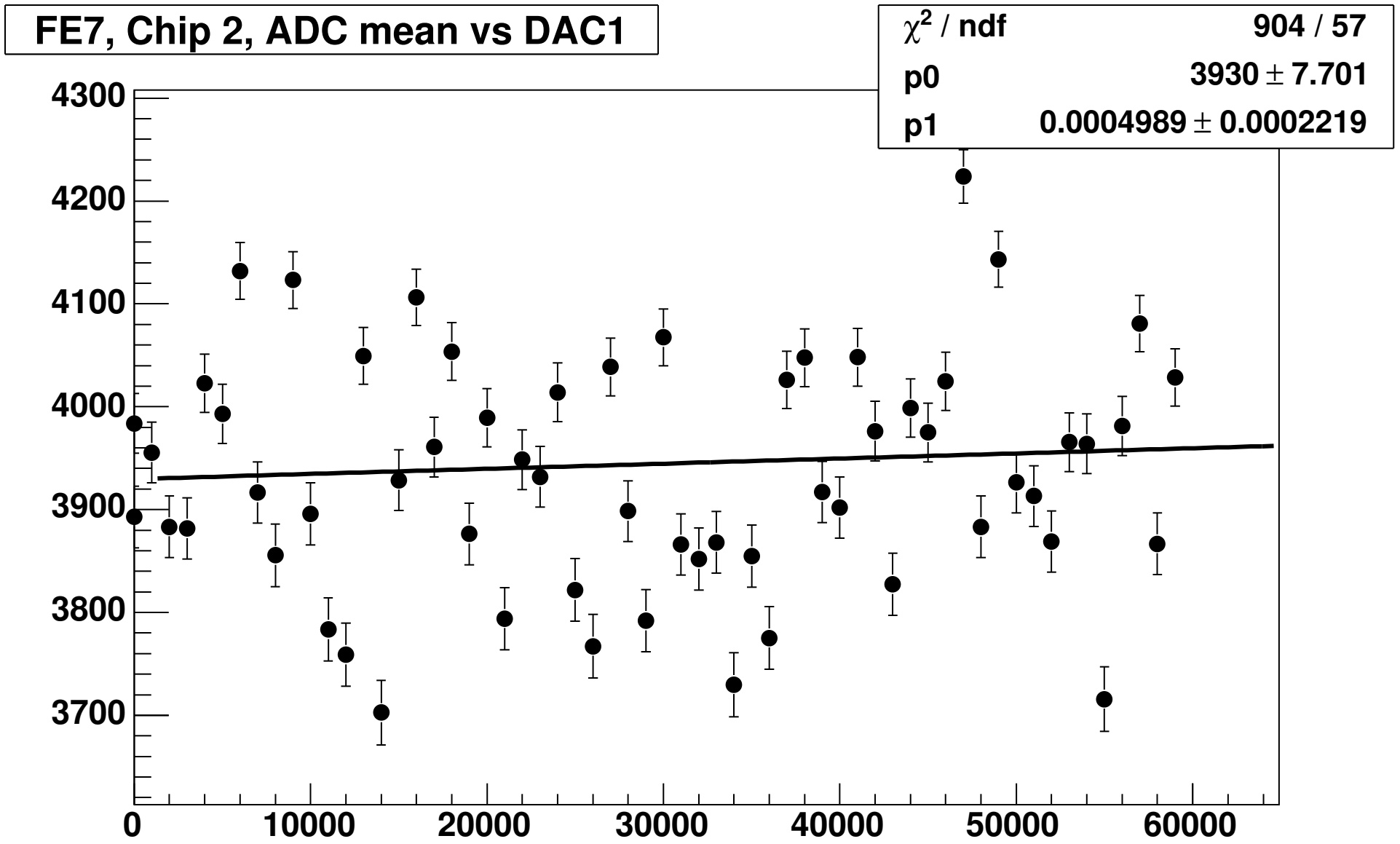
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 2, ADC mean vs DAC1
χ² / ndf 904 / 57
p0 3930 ± 7.701
p1 0.0004989 ± 0.0002219
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
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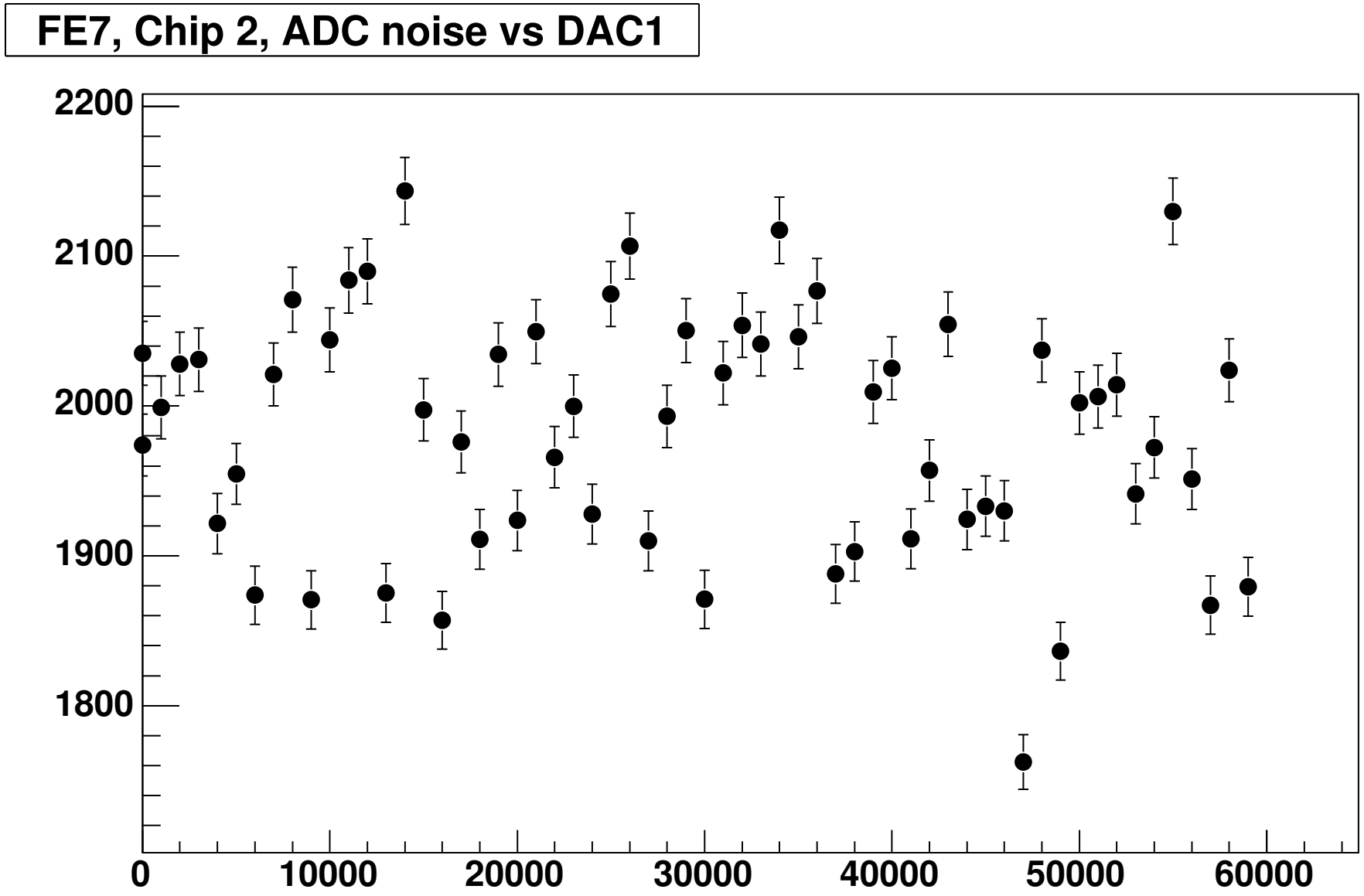
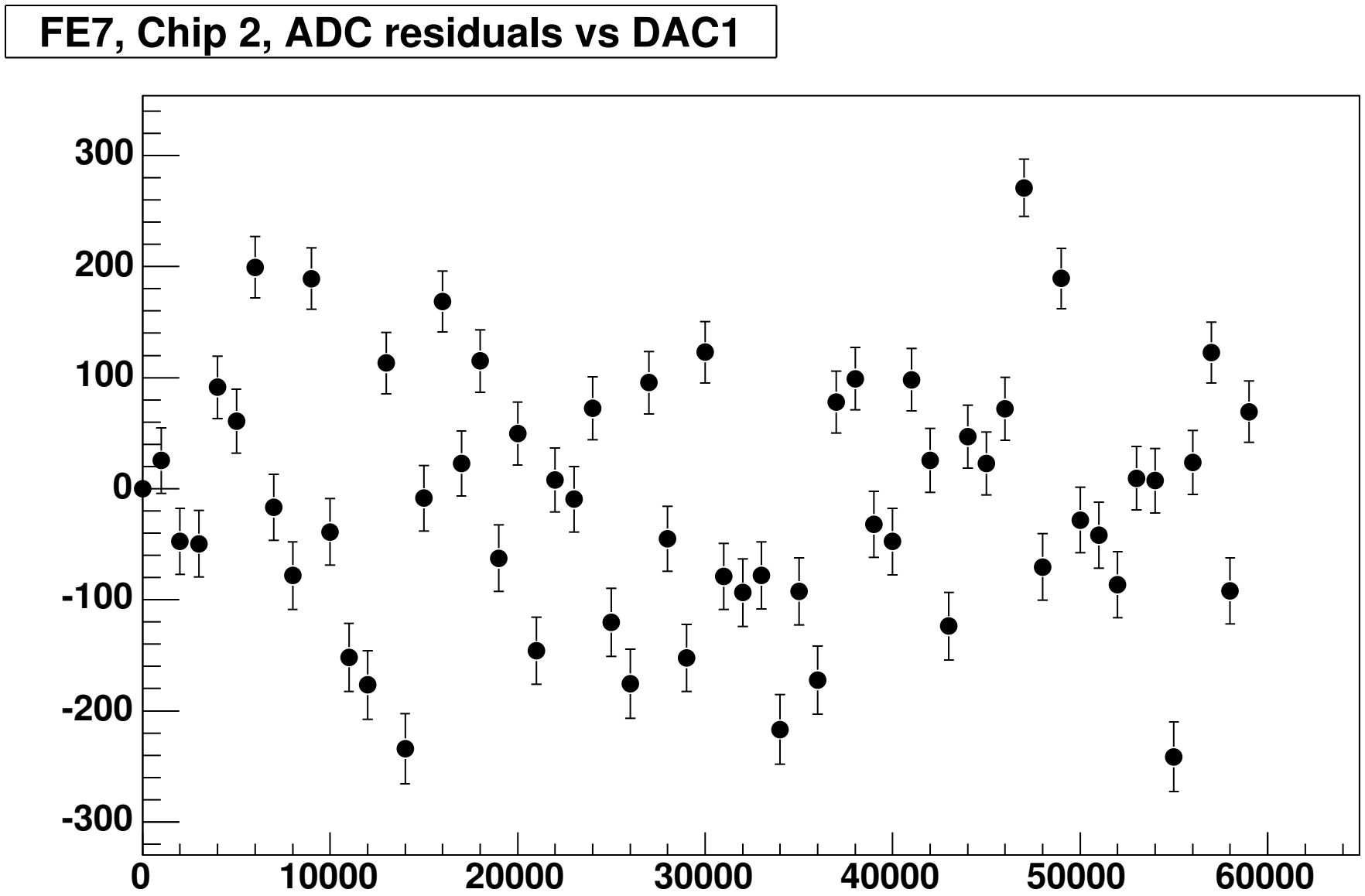
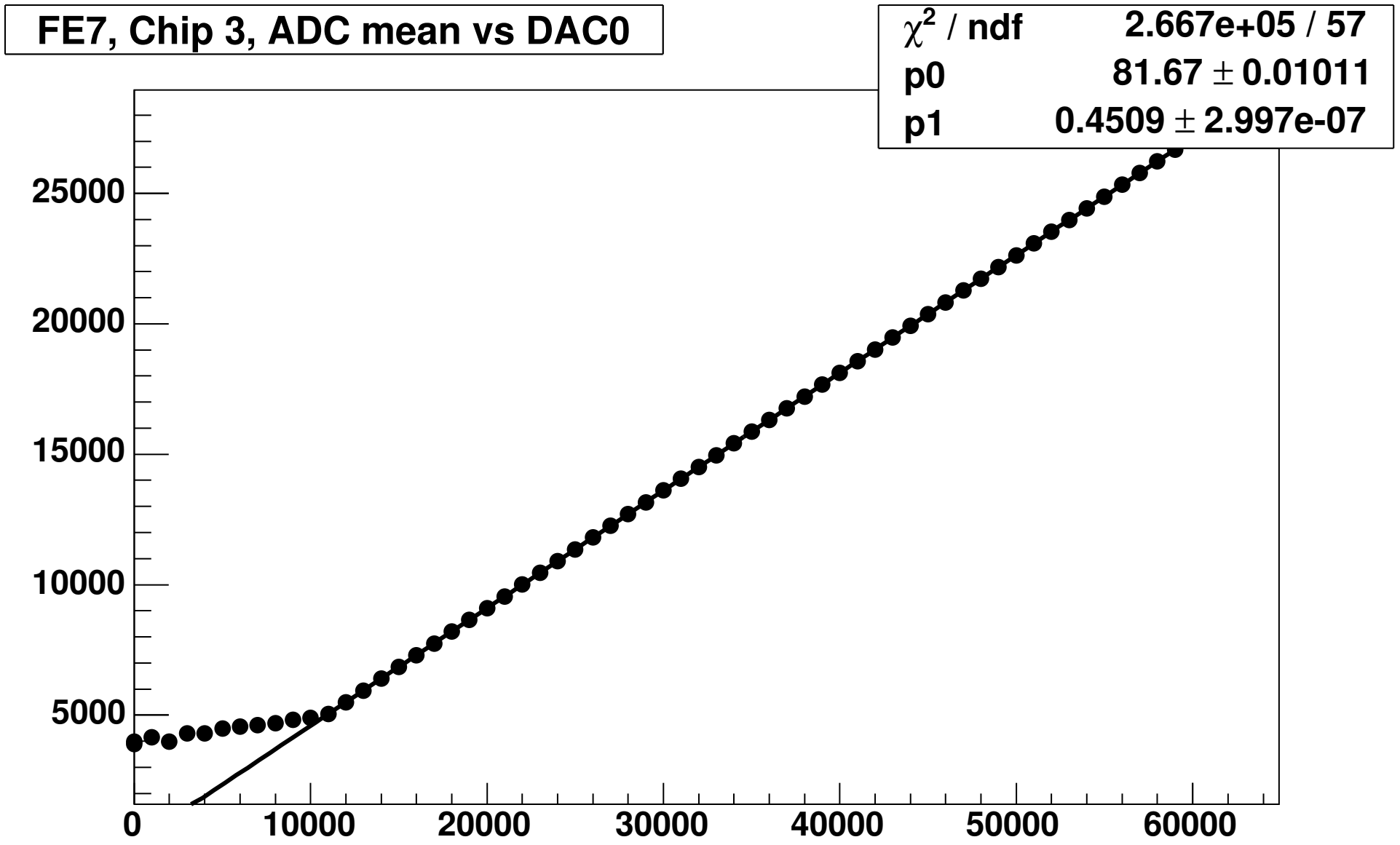
50000
60000


FE7, Chip 2, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE7, Chip 2, ADC residuals vs DAC1
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE7, Chip 3, ADC mean vs DAC0
χ² / ndf 2.667e+05 / 57
p0 81.67 ± 0.01011
p1 0.4509 ± 2.997e-07
25000
20000
15000
10000
5000
0
10000
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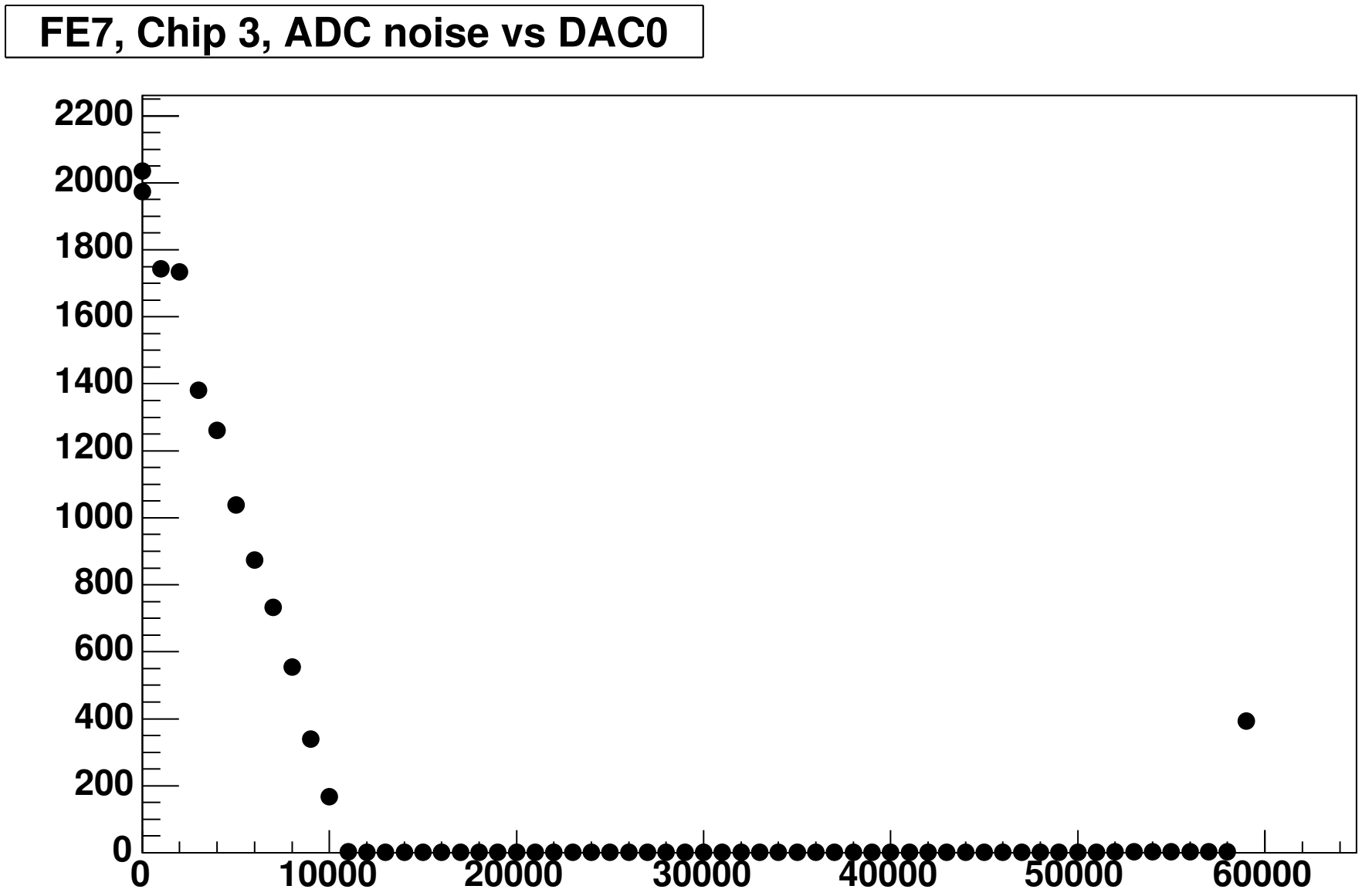
30000
40000
50000
60000


FE7, Chip 3, ADC noise vs DAC0
2200
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1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
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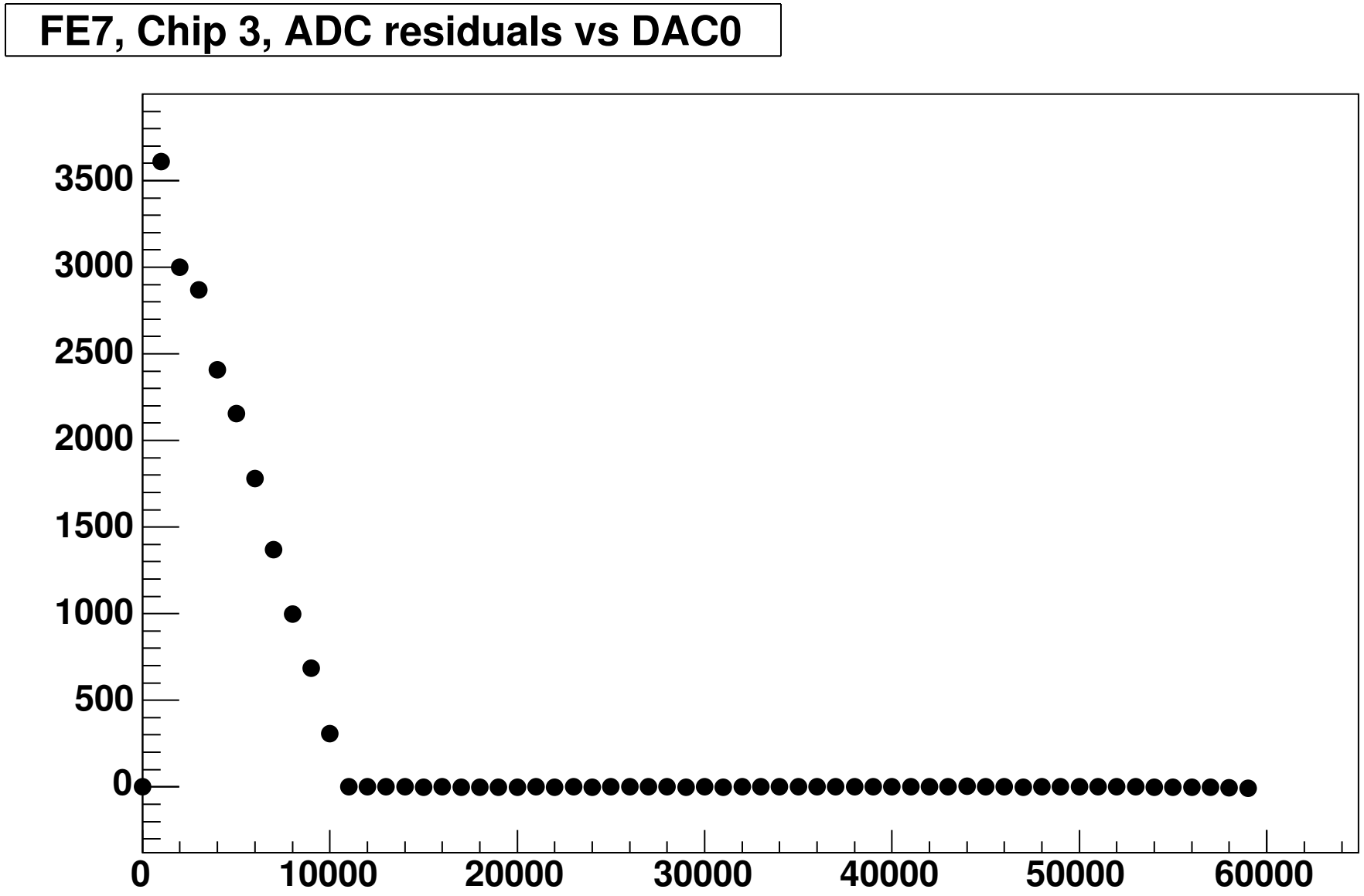
FE7, Chip 3, ADC residuals vs DAC0
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2500
2000
1500
1000
500
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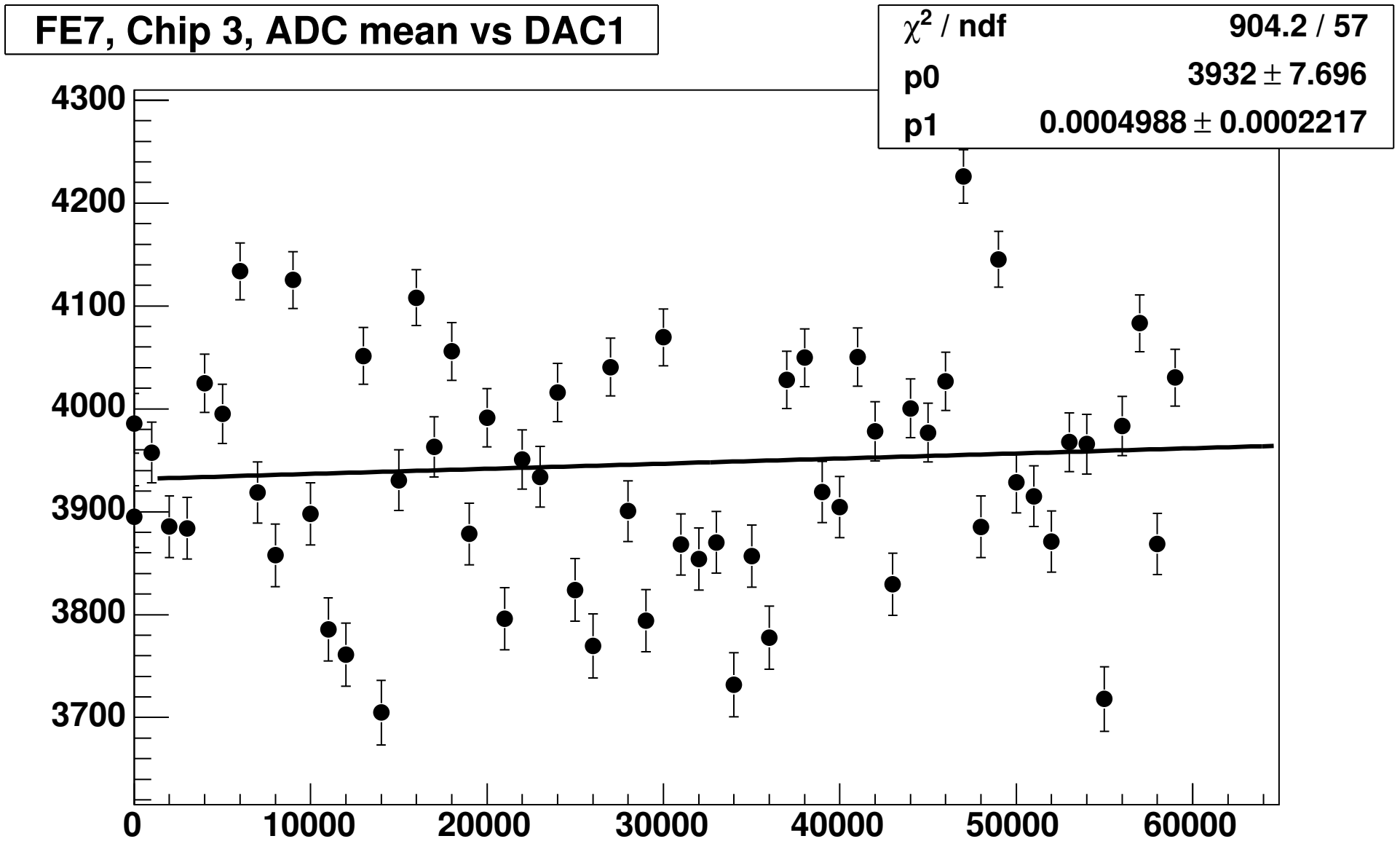
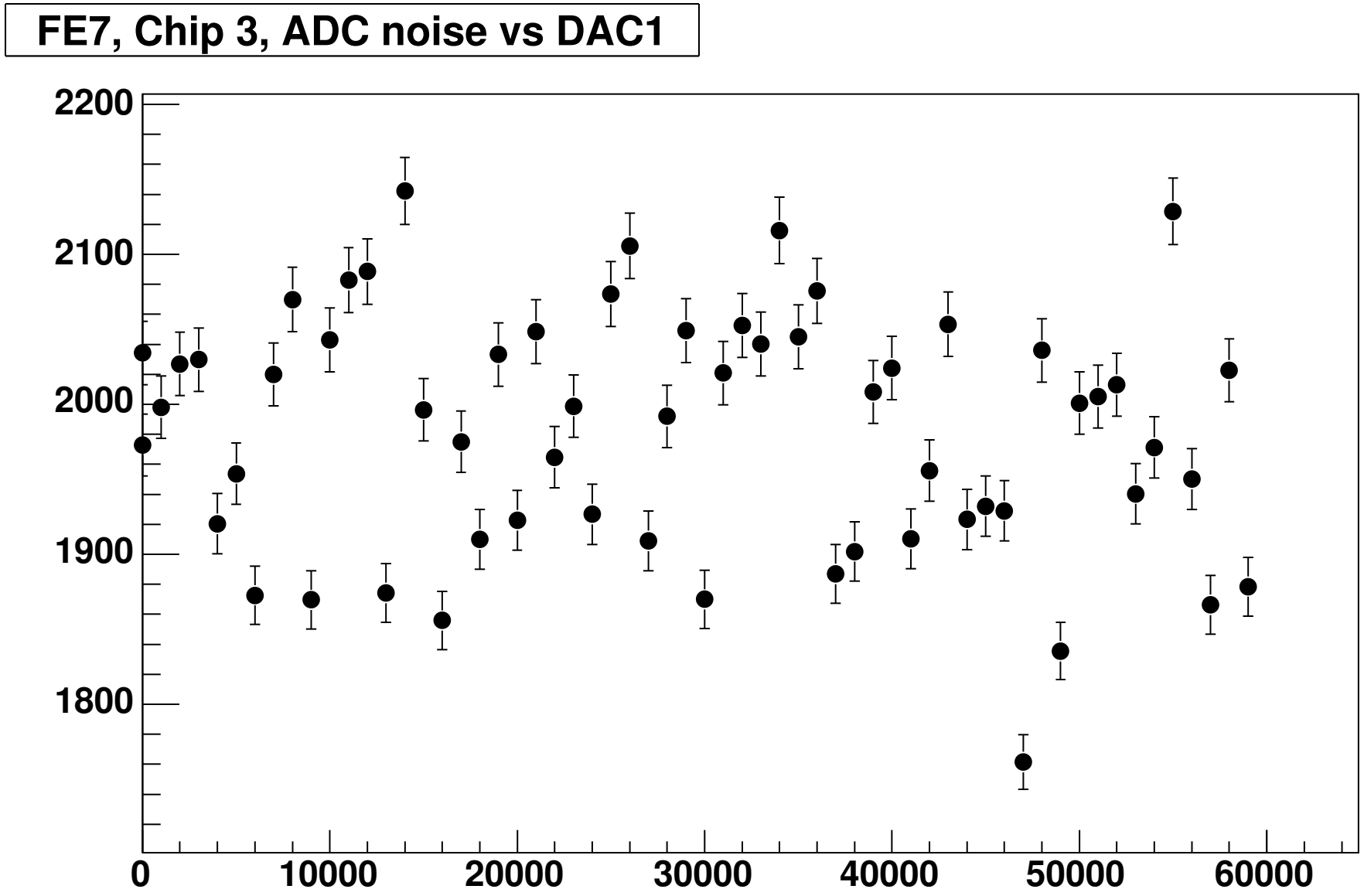
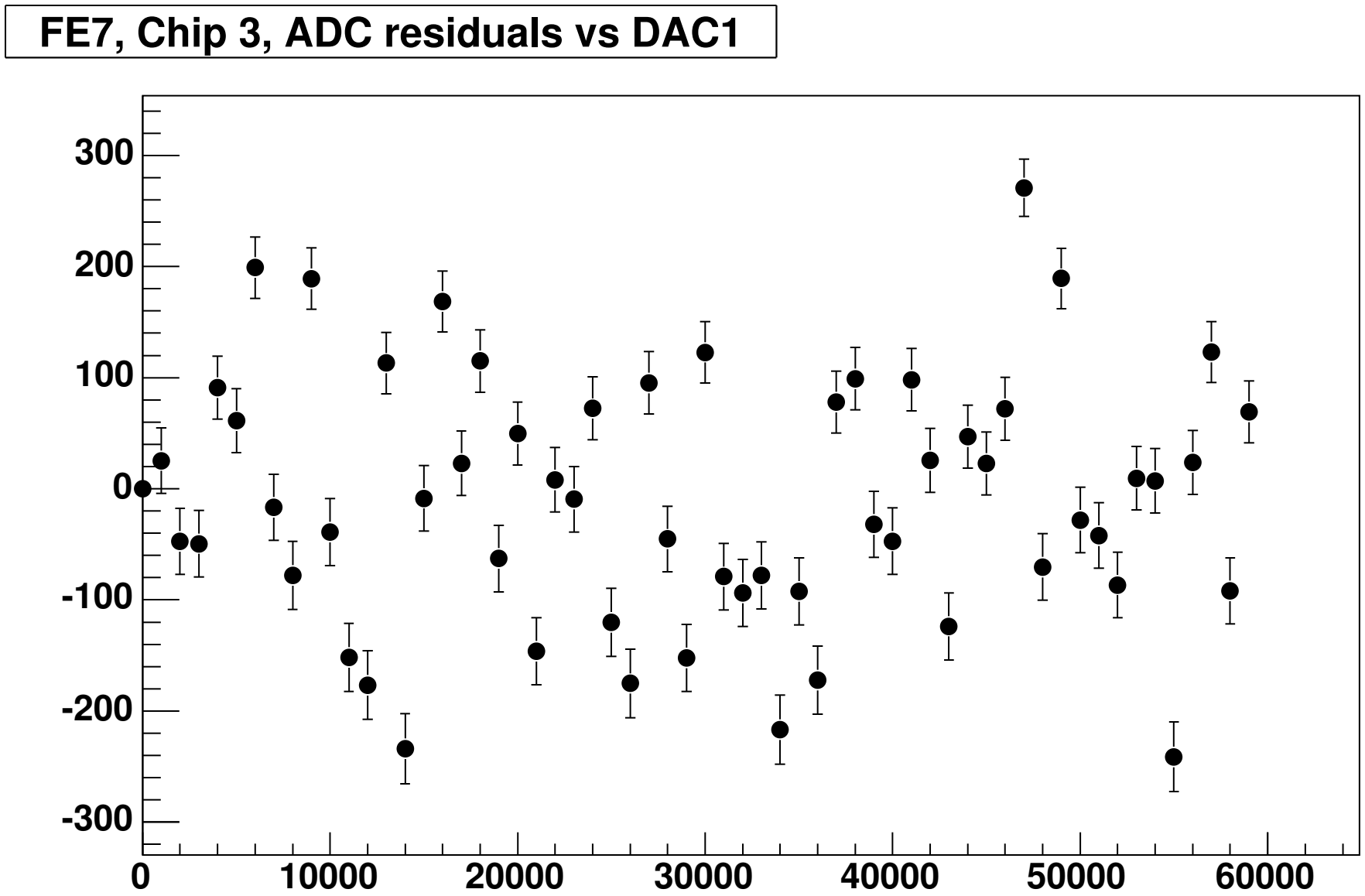

FE7, Chip 3, ADC mean vs DAC1
χ² / ndf 904.2 / 57
p0 3932 ± 7.696
p1 0.0004988 ± 0.0002217
4300
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE7, Chip 3, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE7, Chip 3, ADC residuals vs DAC1
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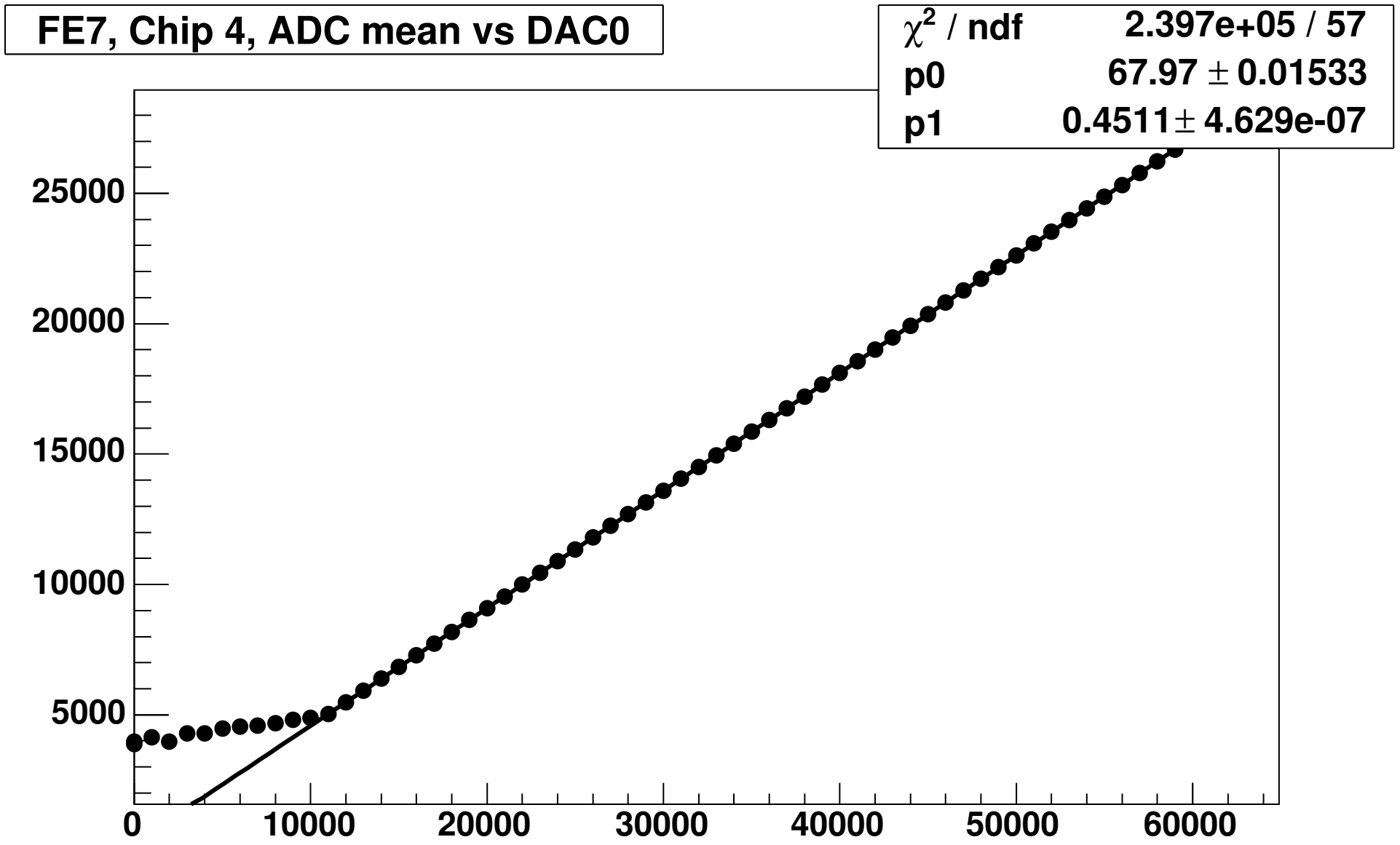
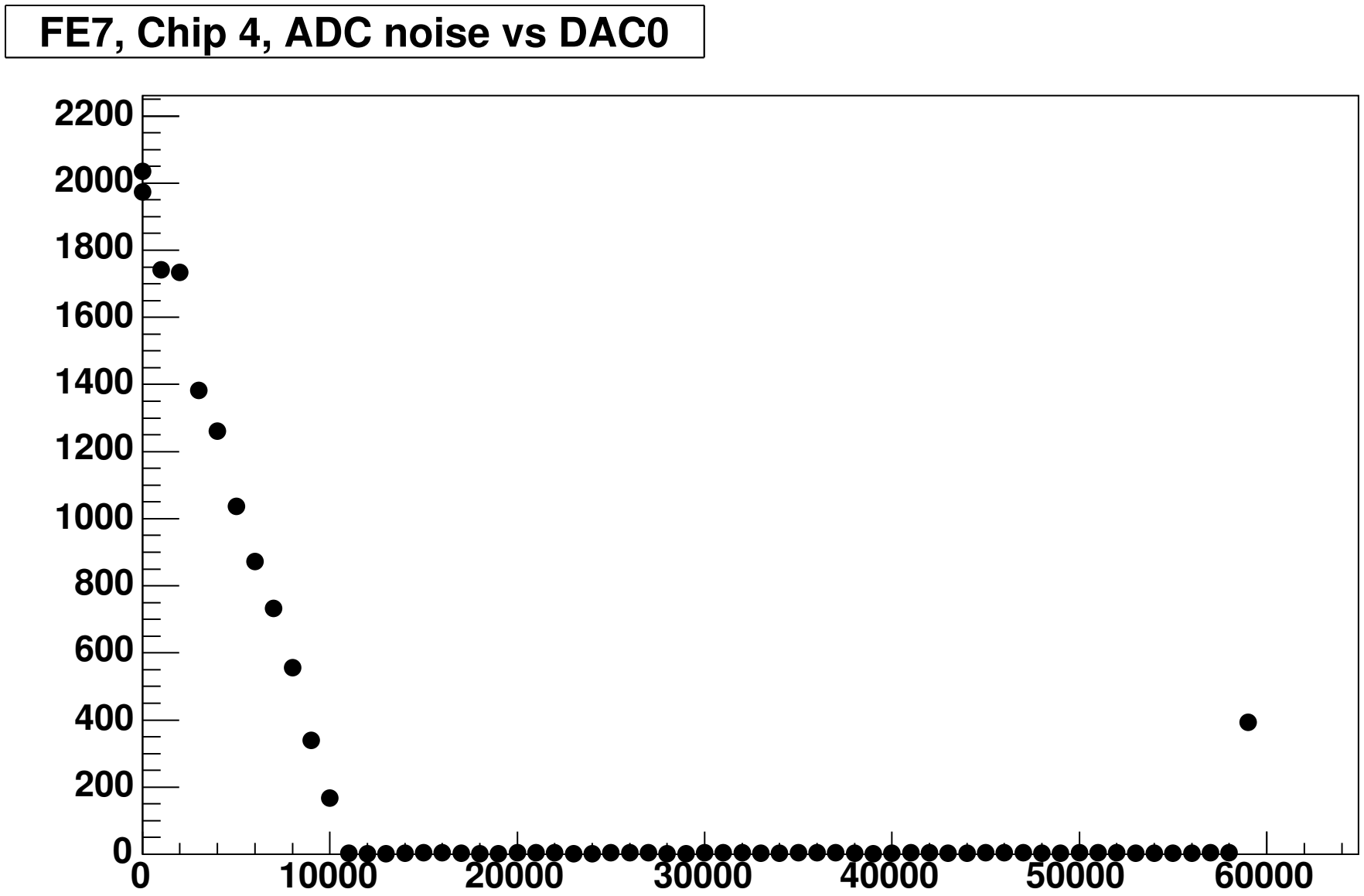
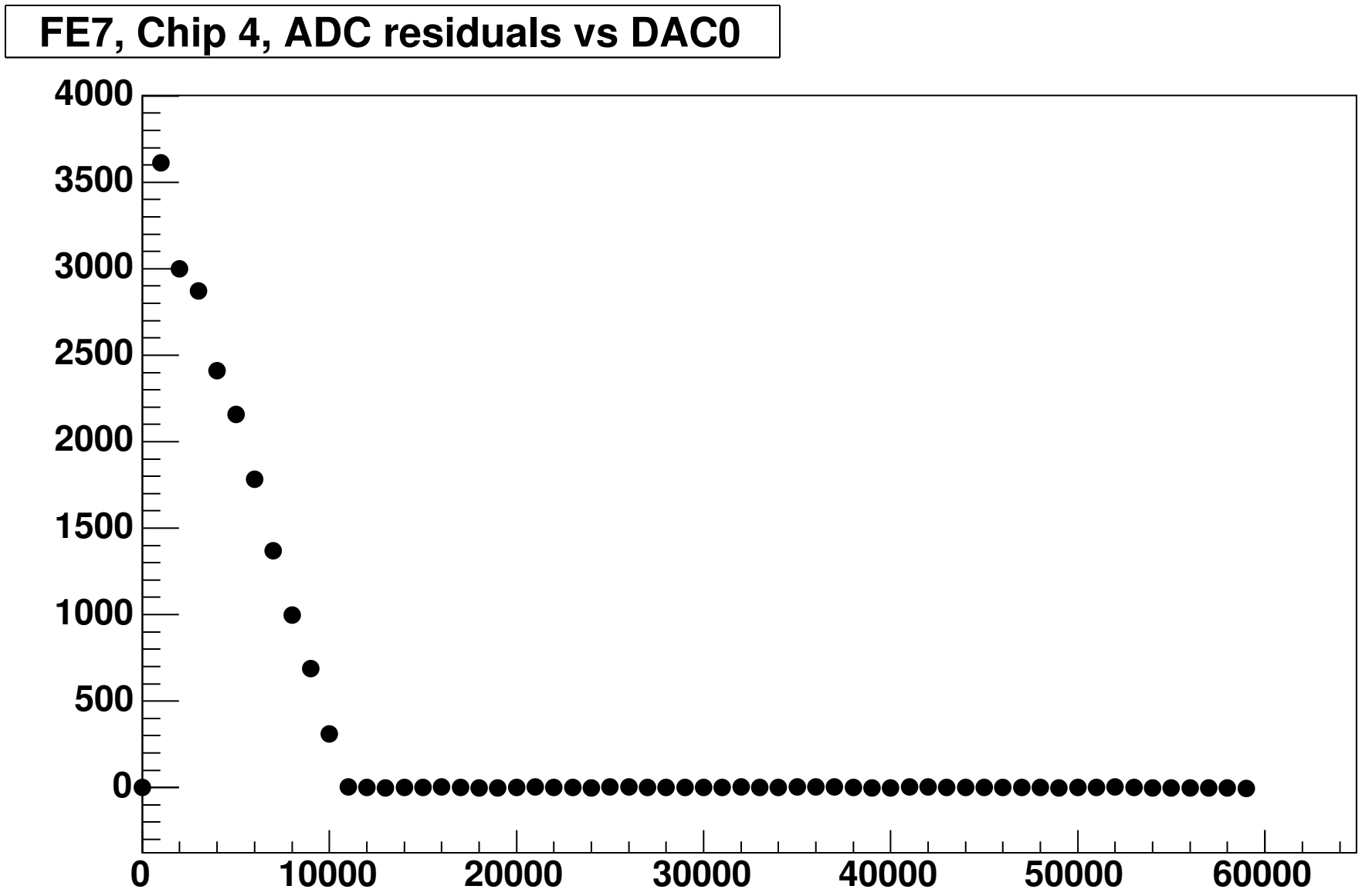
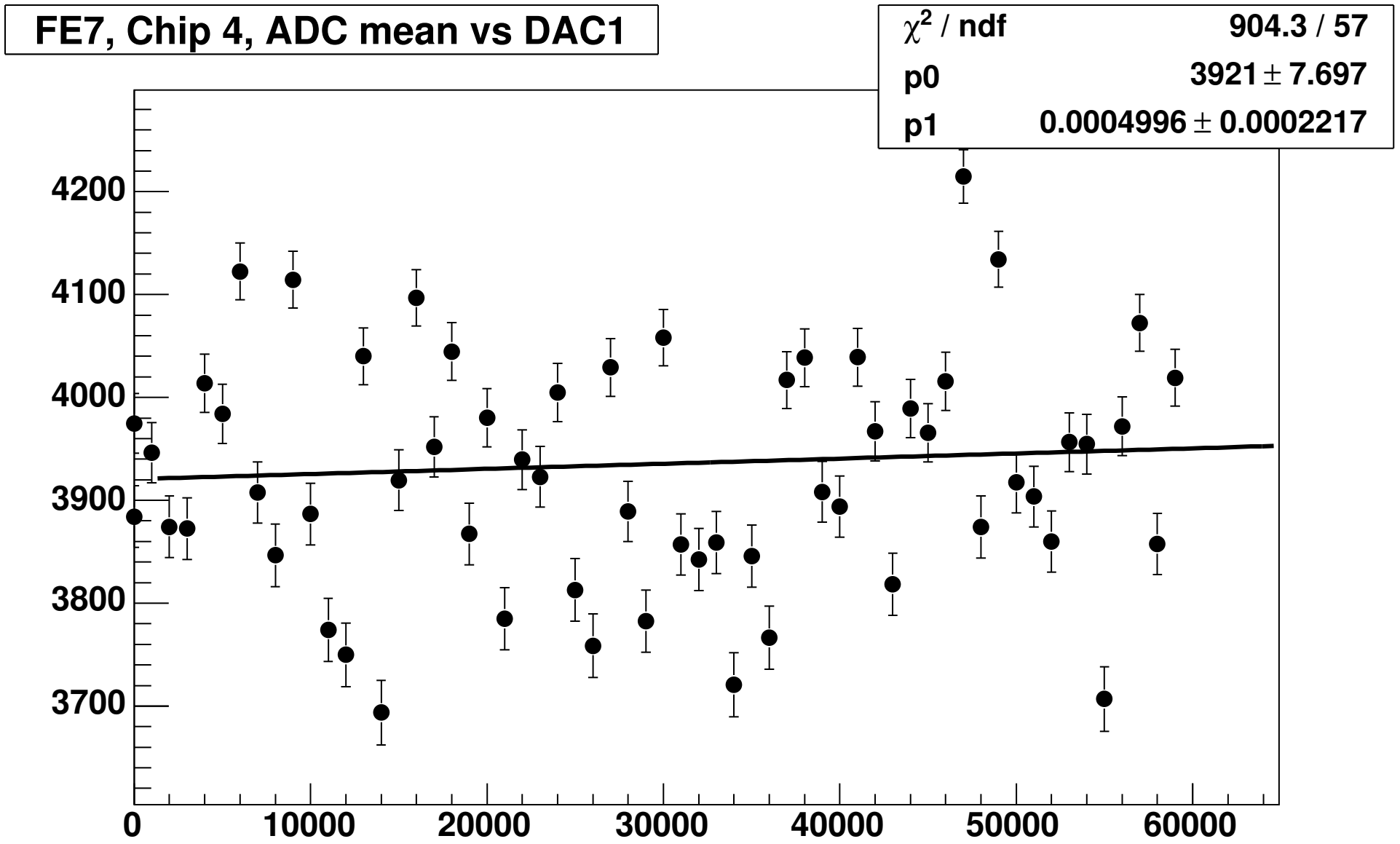
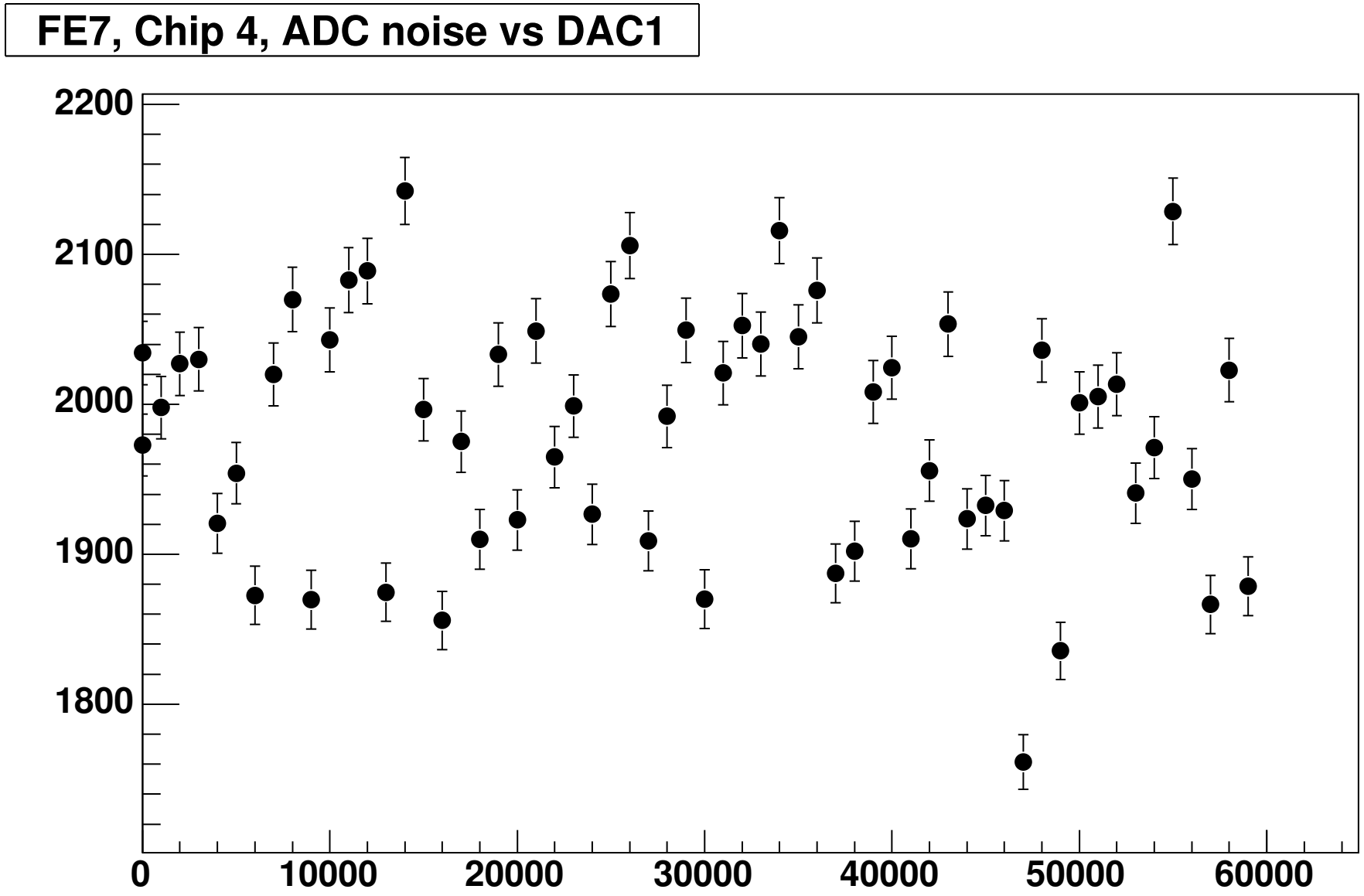
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

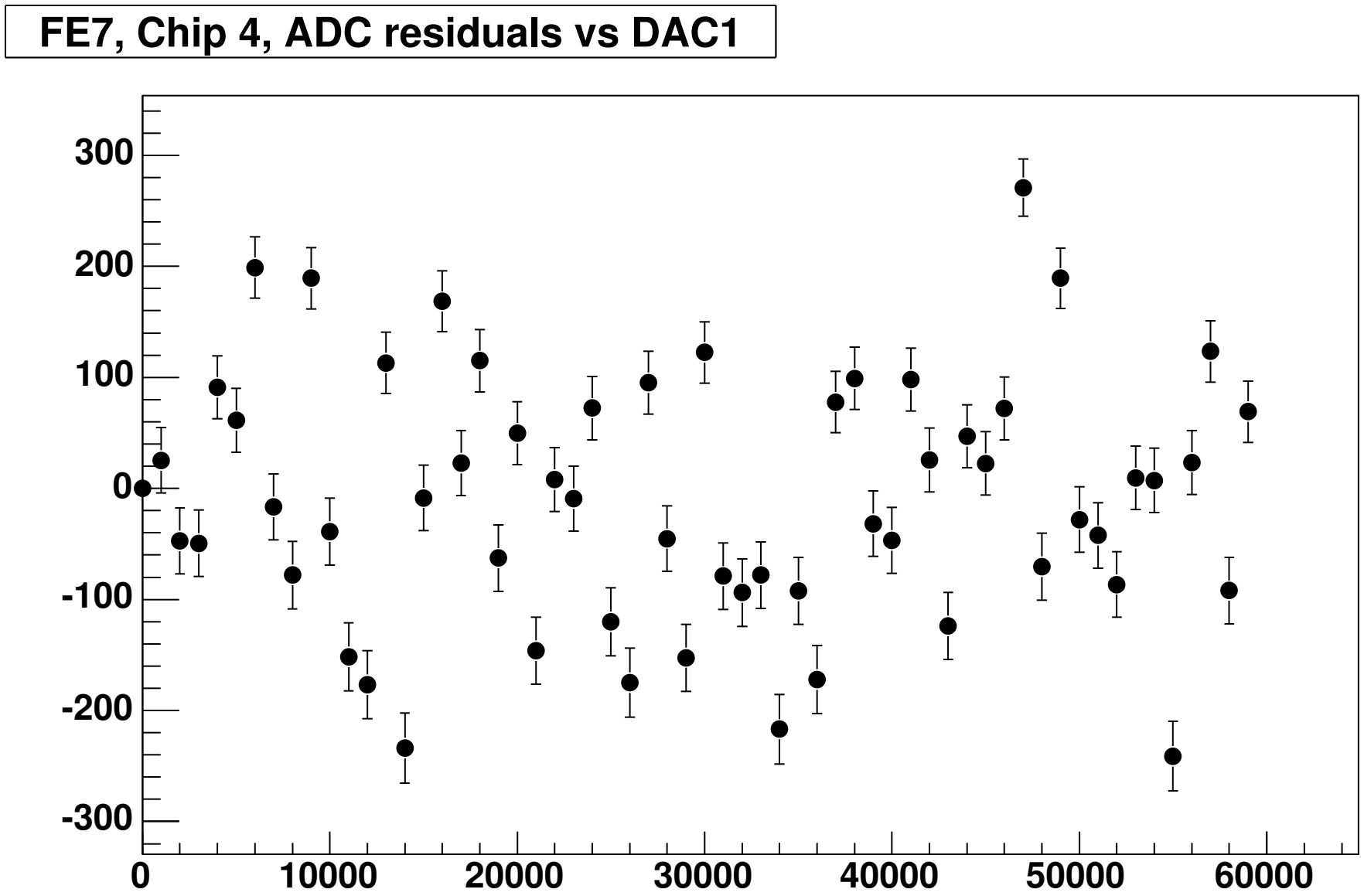

FE7, Chip 4, ADC mean vs DAC0
χ² / ndf 2.397e+05 / 57
p0 67.97 ± 0.01533
p1 0.4511 ± 4.629e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC residuals vs DAC0
4000
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC mean vs DAC1
χ² / ndf 904.3 / 57
p0 3921 ± 7.697
p1 0.0004996 ± 0.0002217
4200
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE7, Chip 4, ADC residuals vs DAC1
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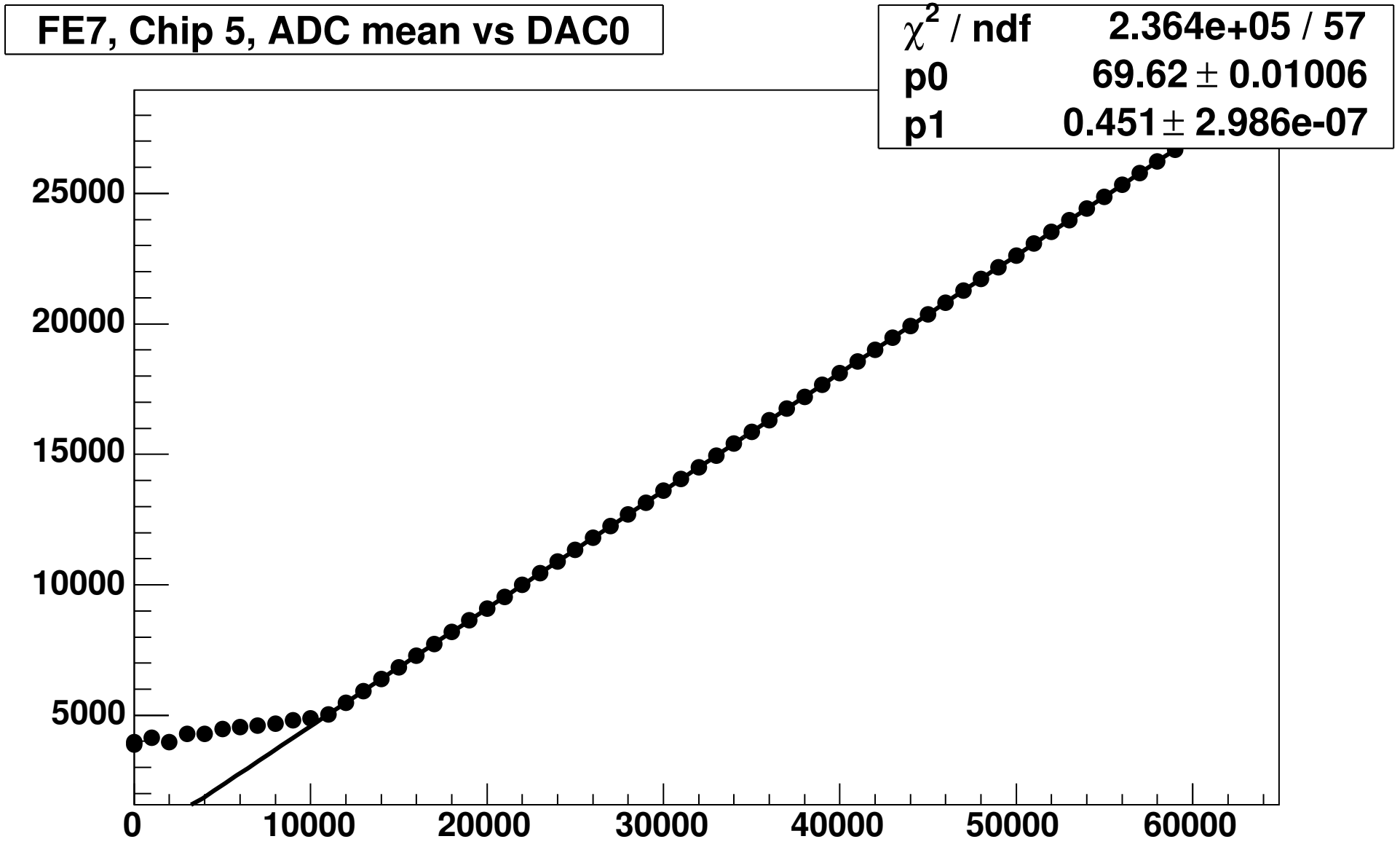
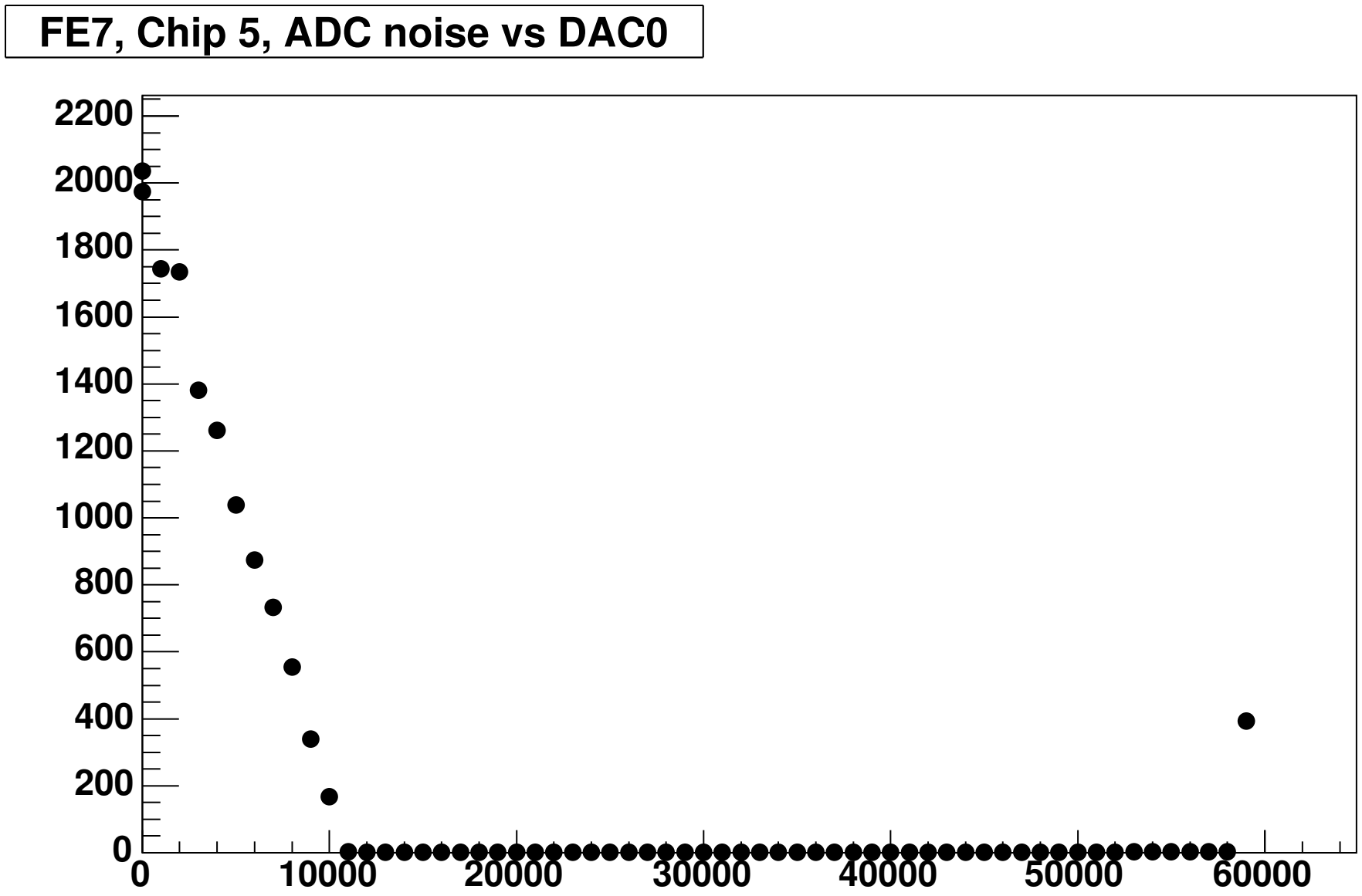
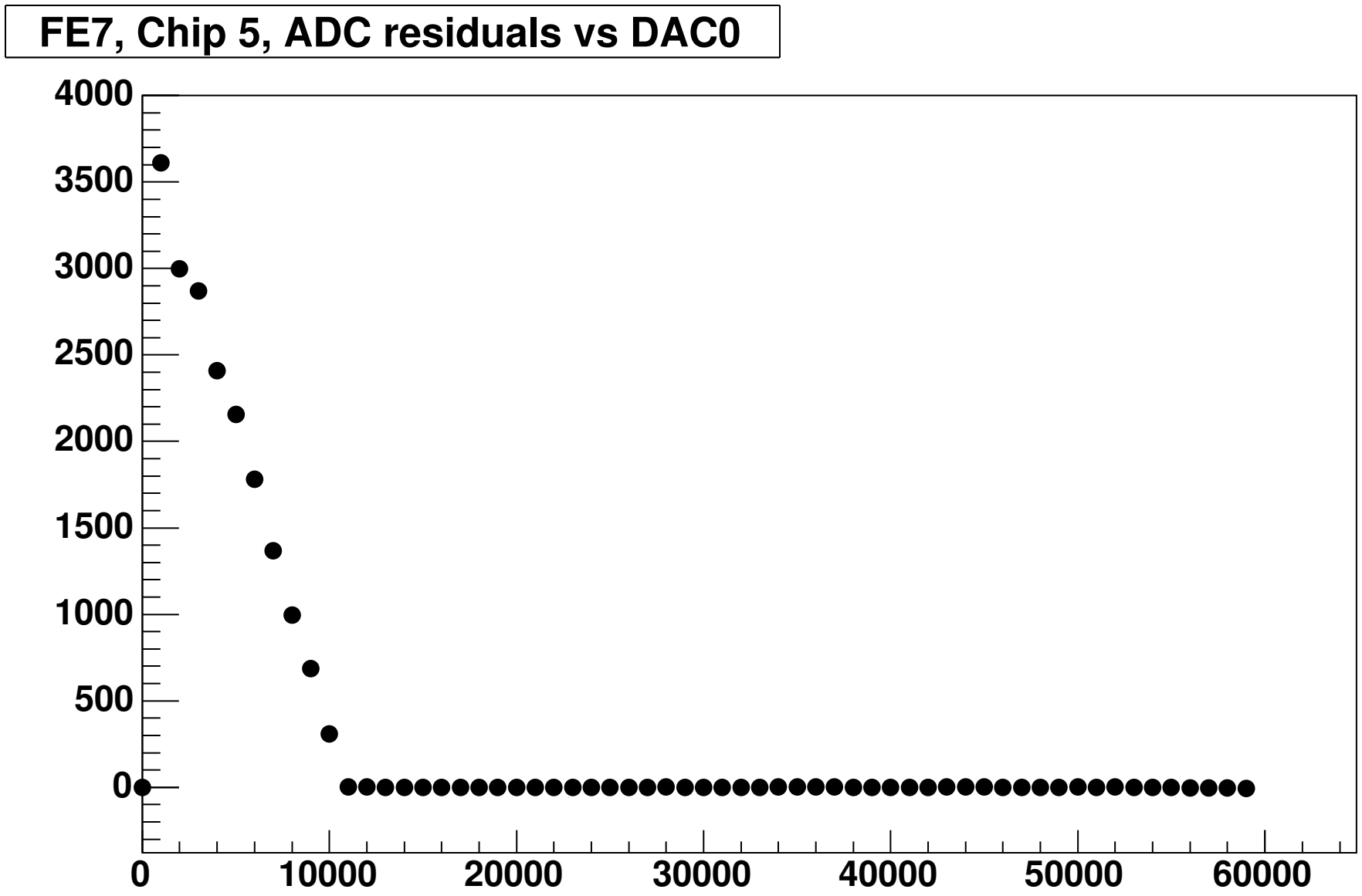
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE7, Chip 5, ADC mean vs DAC0
χ² / ndf 2.364e+05 / 57
p0 69.62 ± 0.01006
p1 0.451 ± 2.986e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE7, Chip 5, ADC noise vs DAC0
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 5, ADC residuals vs DAC0
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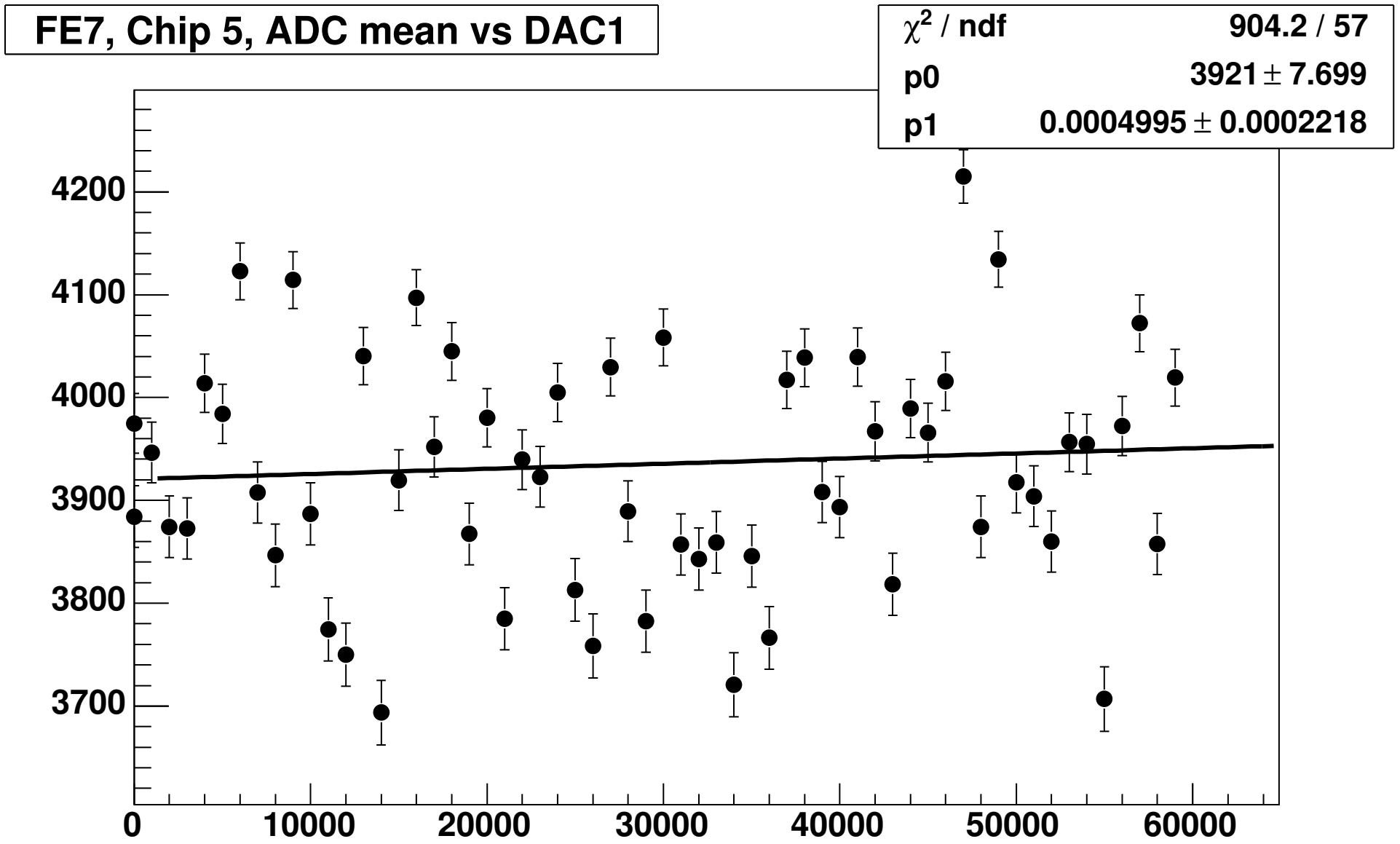
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 5, ADC mean vs DAC1
χ² / ndf 904.2 / 57
p0 3921 ± 7.699
p1 0.0004995 ± 0.0002218
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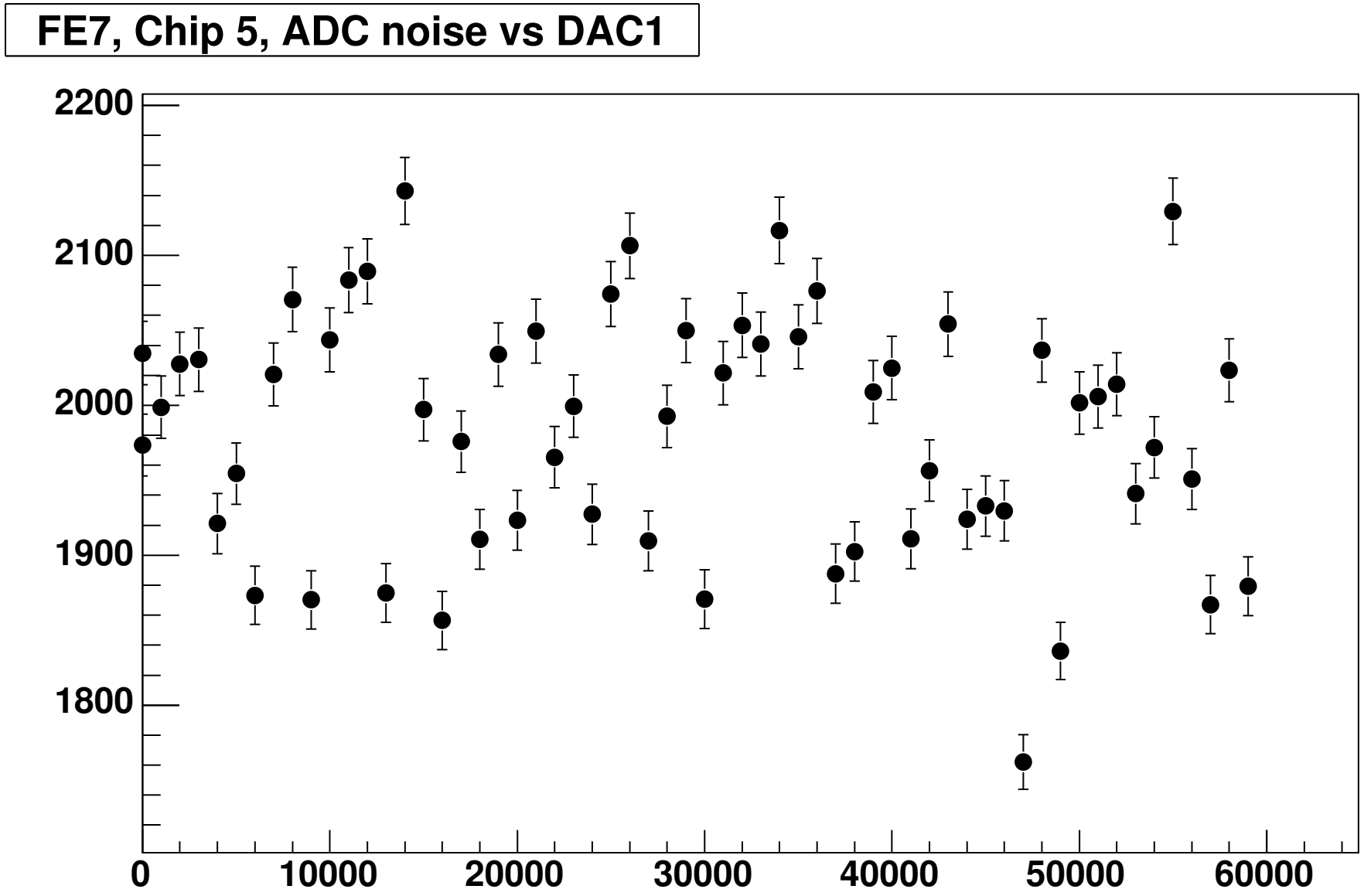
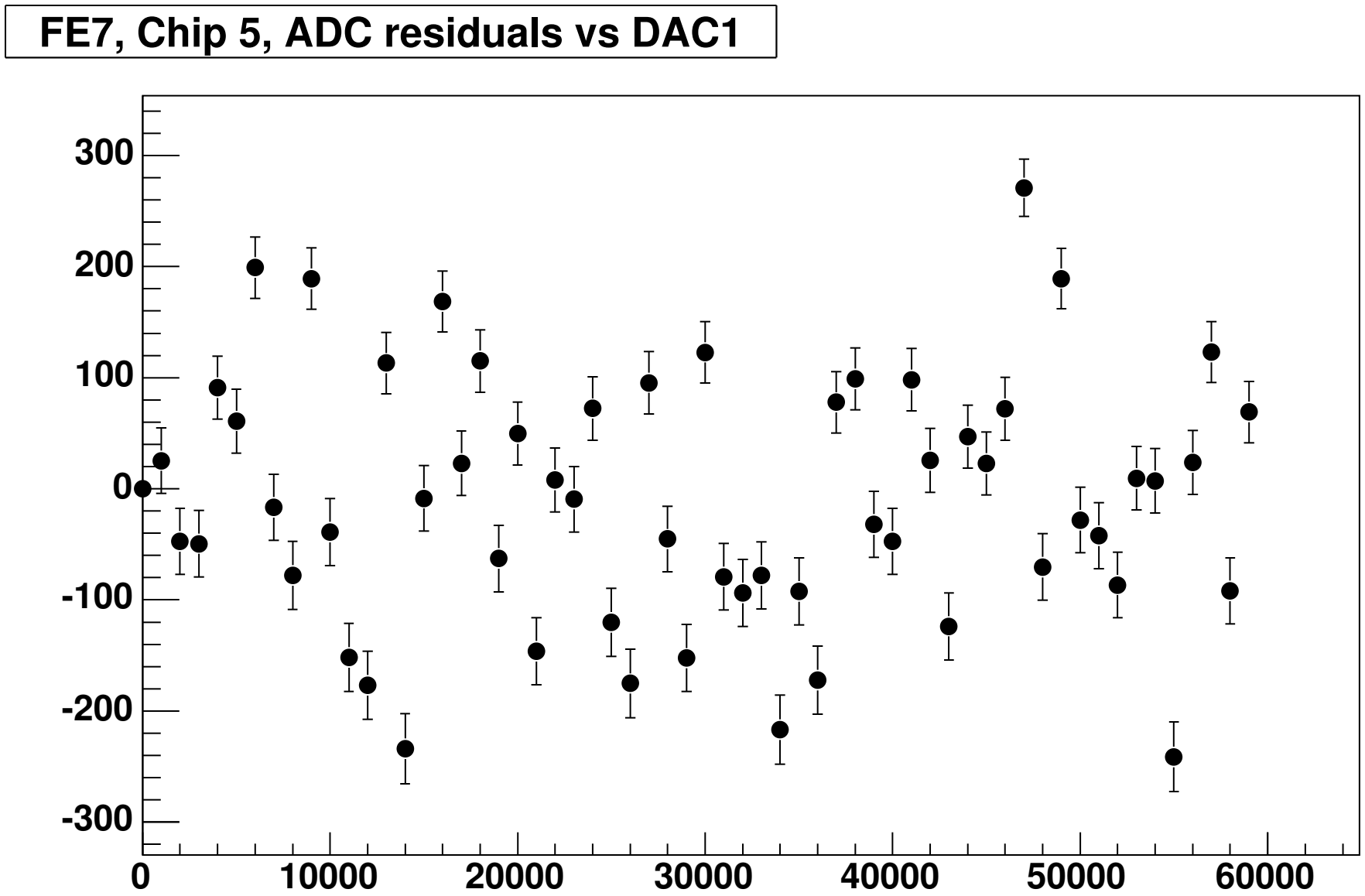
4100
4000
3900
3800
3700
0
10000
20000
30000
40000
50000
60000


FE7, Chip 5, ADC noise vs DAC1
2200
2100
2000
1900
1800
0
10000
20000
30000
40000
50000
60000


FE7, Chip 5, ADC residuals vs DAC1
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200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
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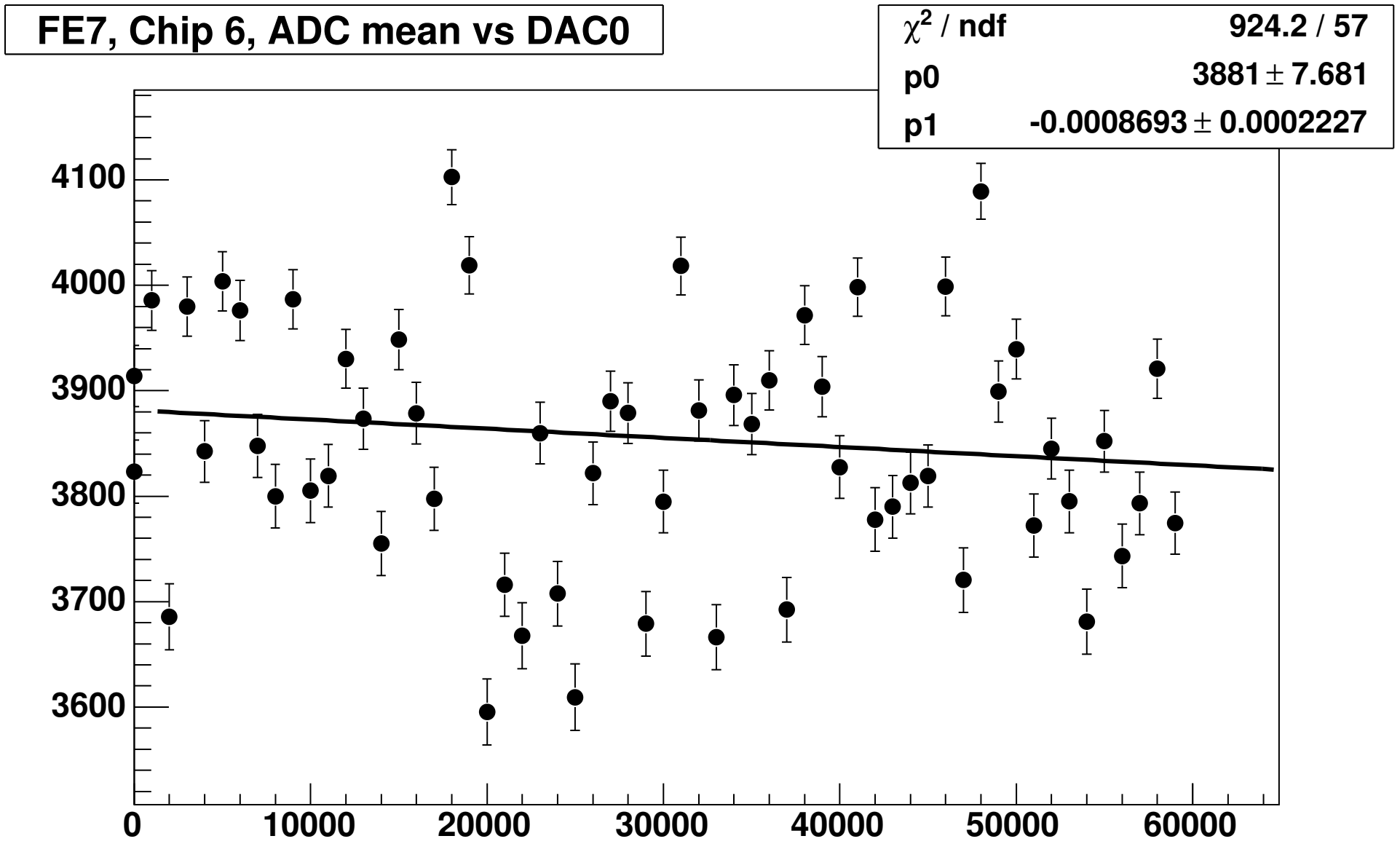
FE7, Chip 6, ADC mean vs DAC0
χ² / ndf 924.2 / 57
p0 3881 ± 7.681
p1 -0.0008693 ± 0.0002227
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4000
3900
3800
3700
3600
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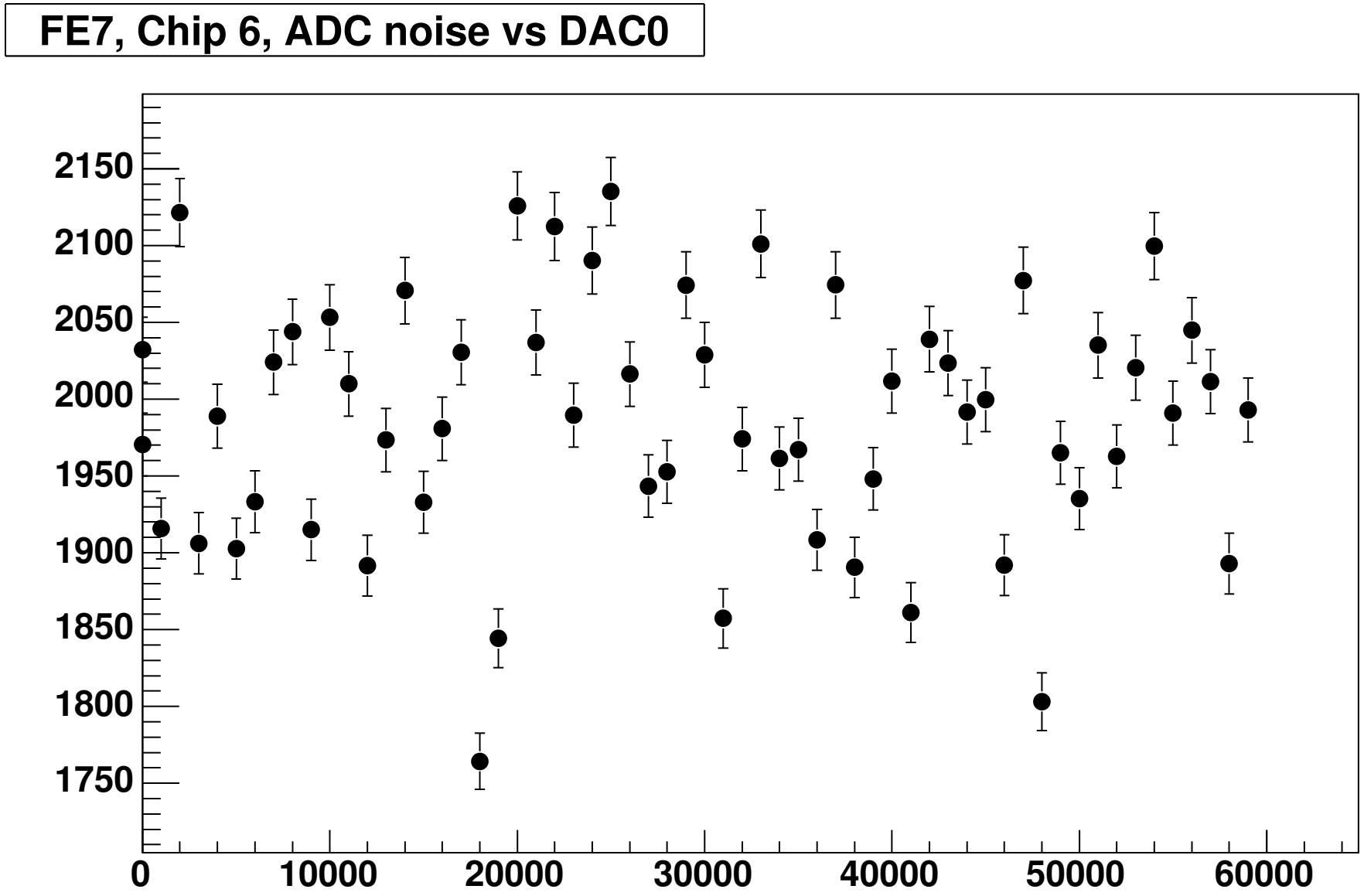
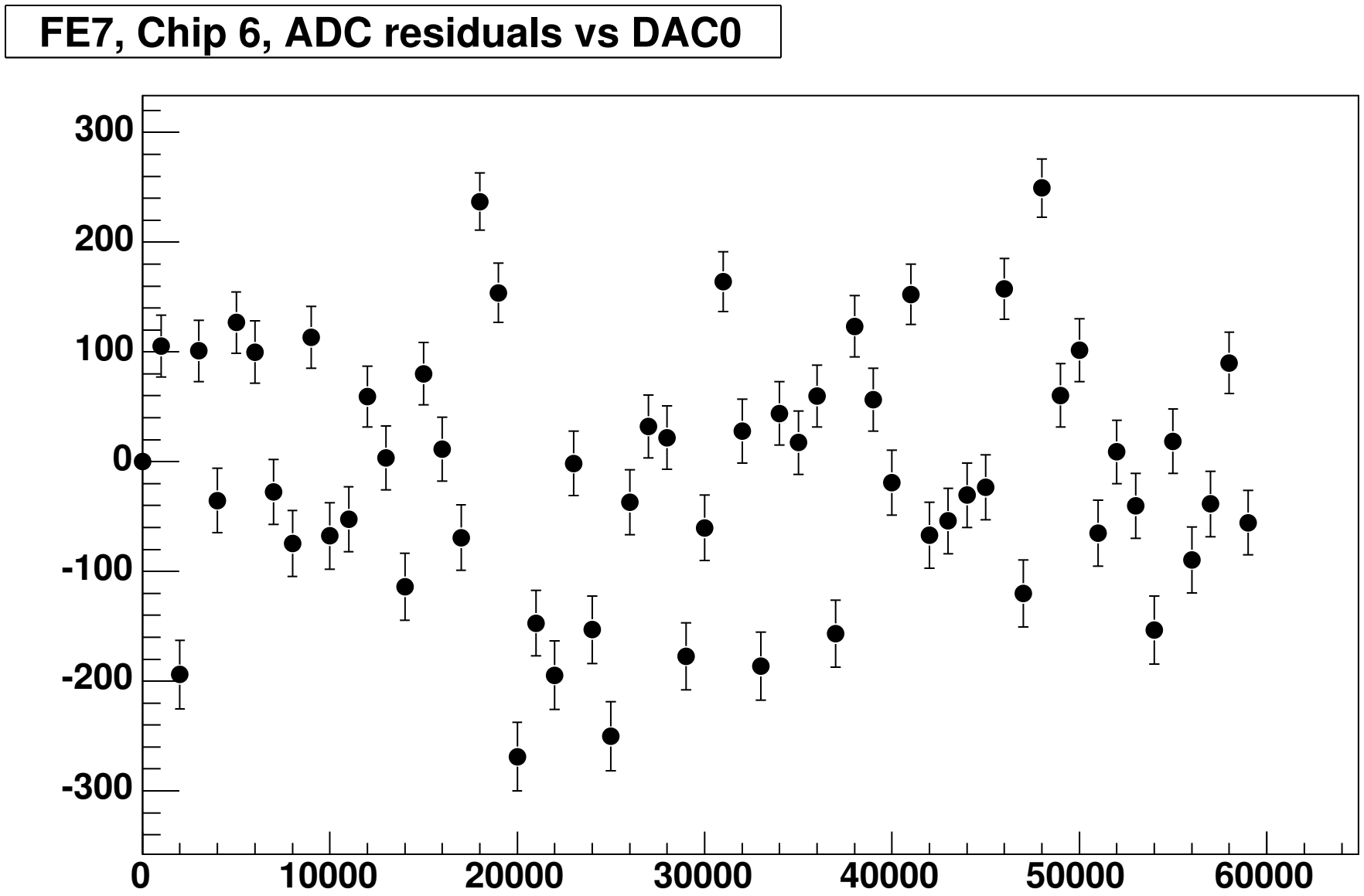
10000
20000
30000
40000
50000
60000


FE7, Chip 6, ADC noise vs DAC0
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
60000


FE7, Chip 6, ADC residuals vs DAC0
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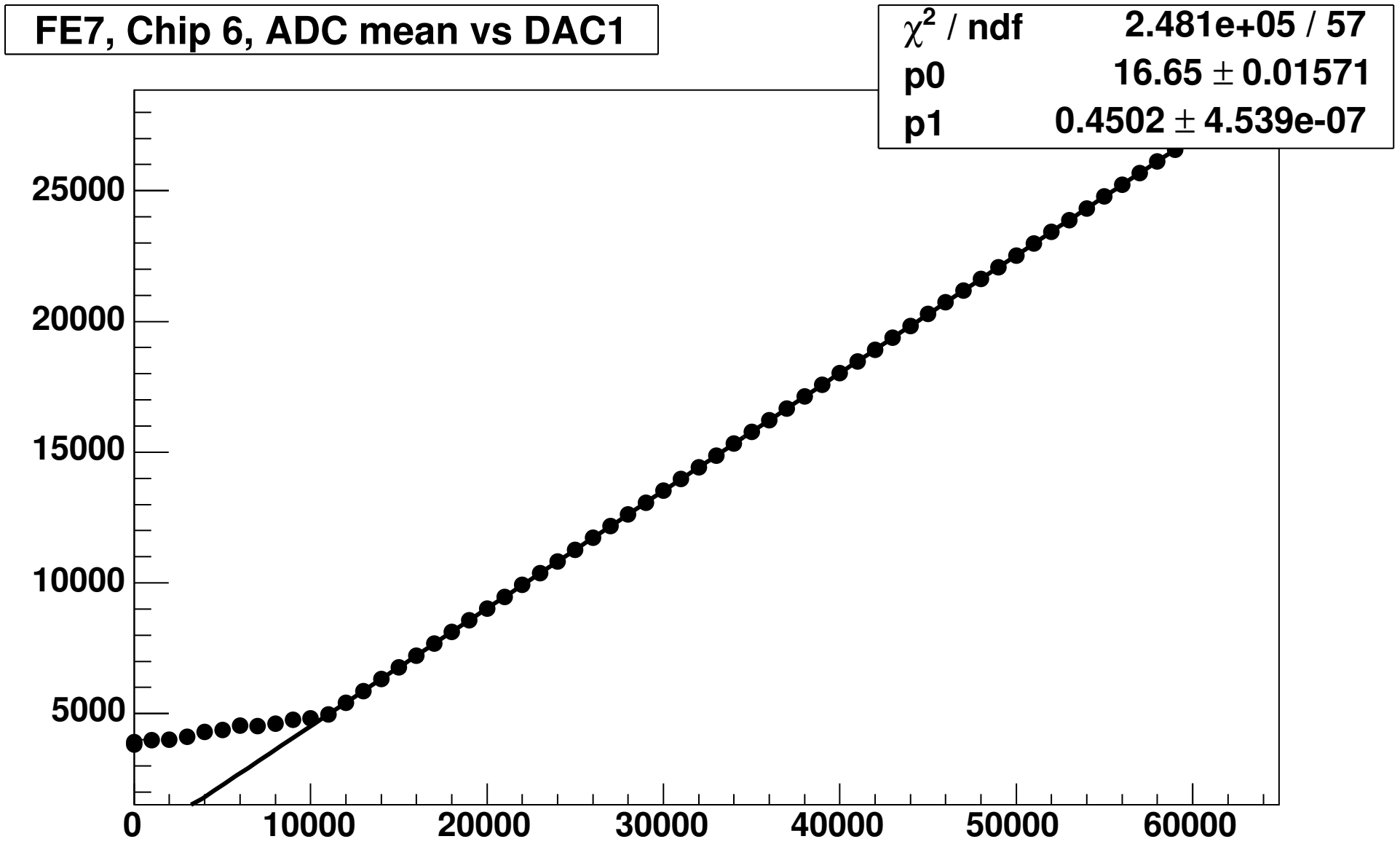
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE7, Chip 6, ADC mean vs DAC1
χ² / ndf 2.481e+05 / 57
p0 16.65 ± 0.01571
p1 0.4502 ± 4.539e-07
25000
20000
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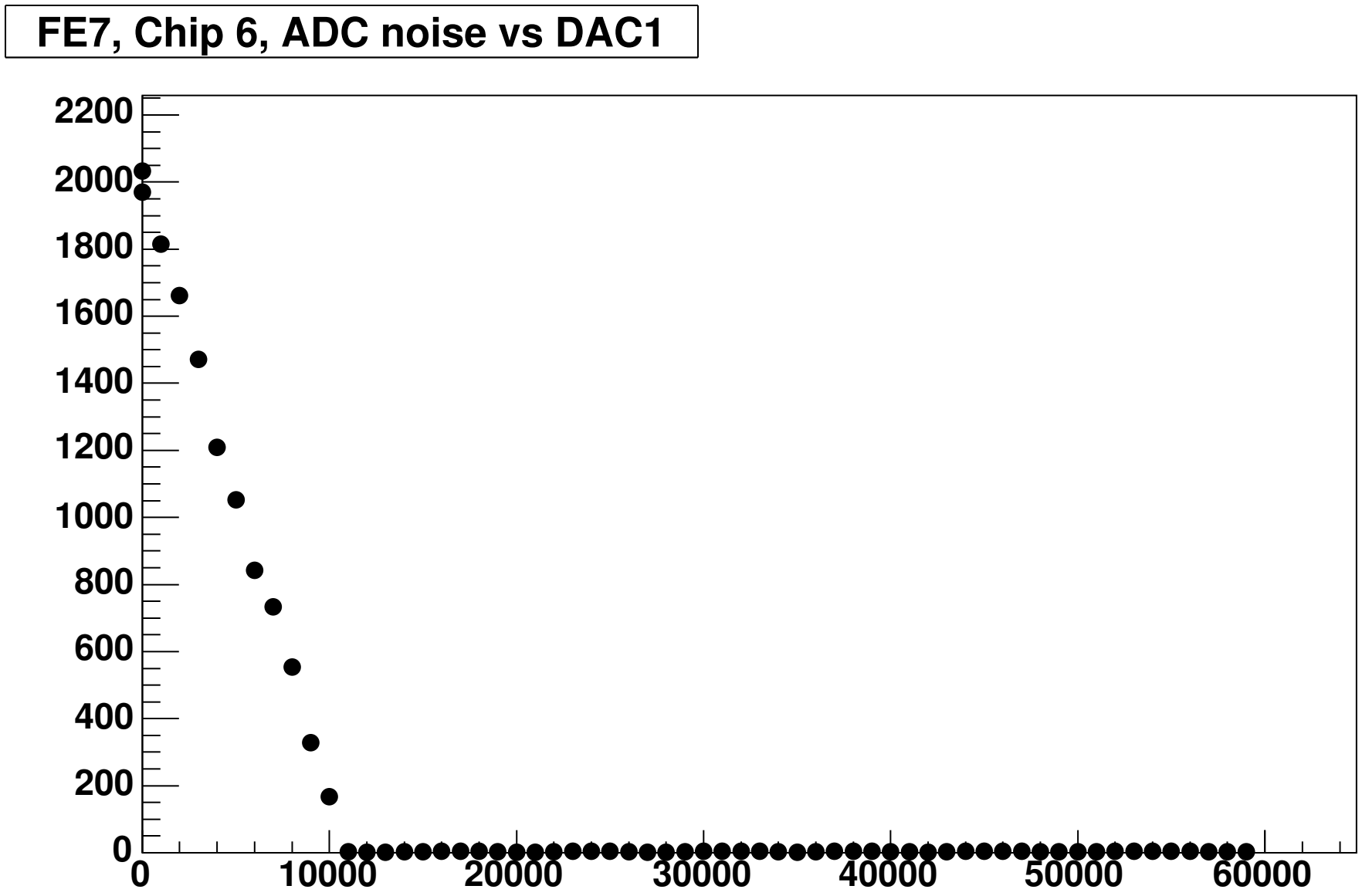
10000
5000
0
10000
20000
30000
40000
50000
60000


FE7, Chip 6, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
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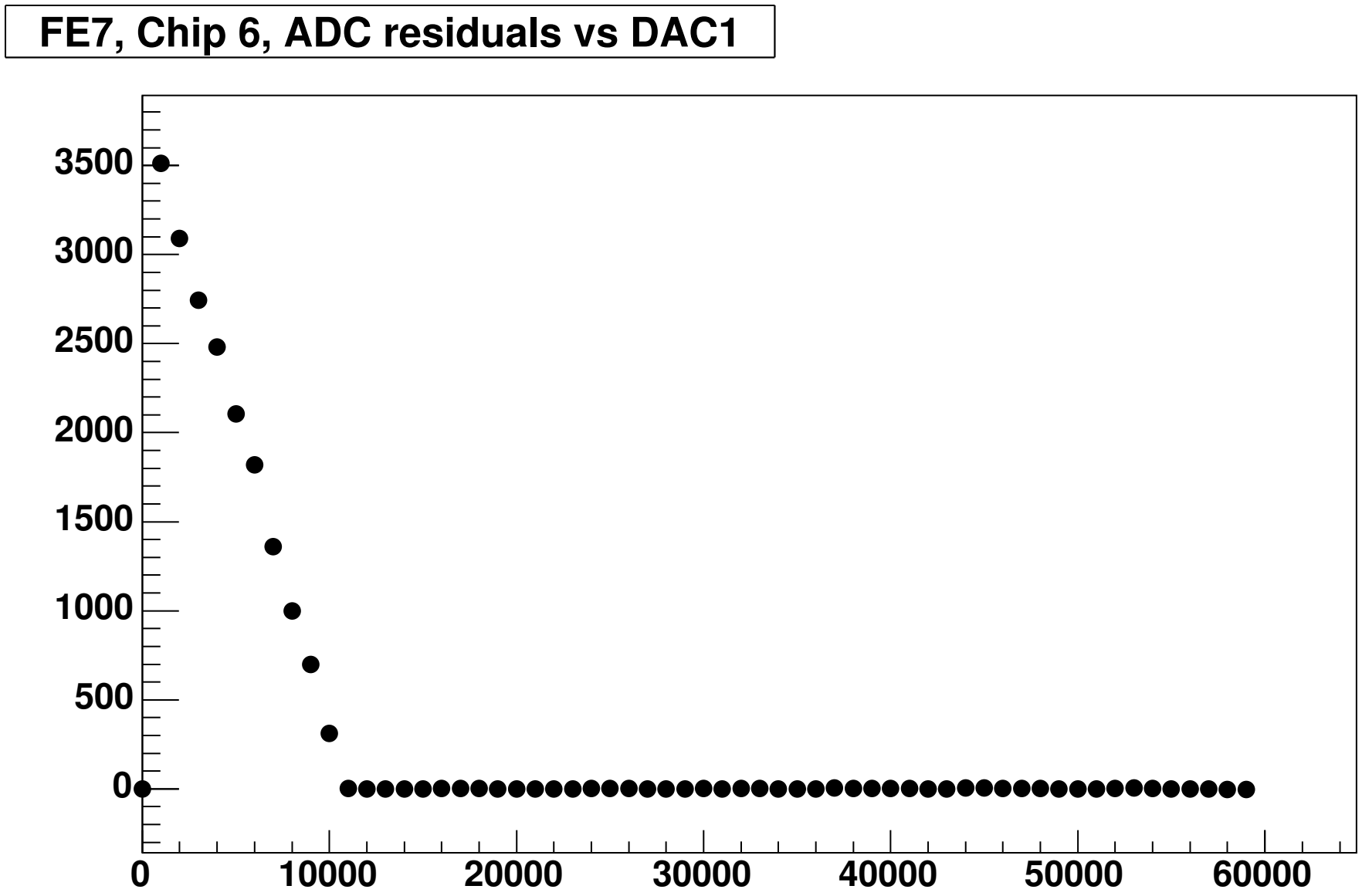
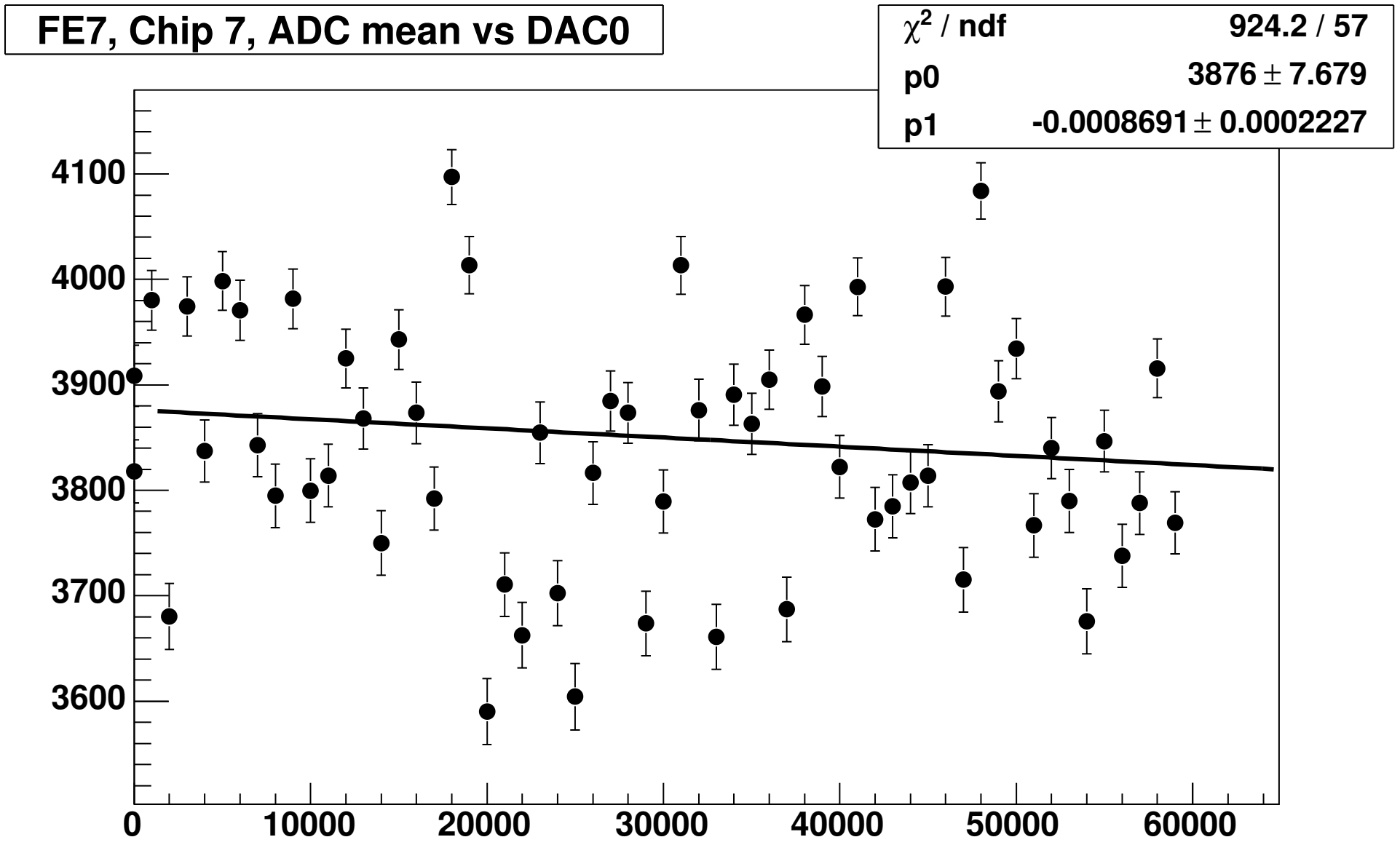
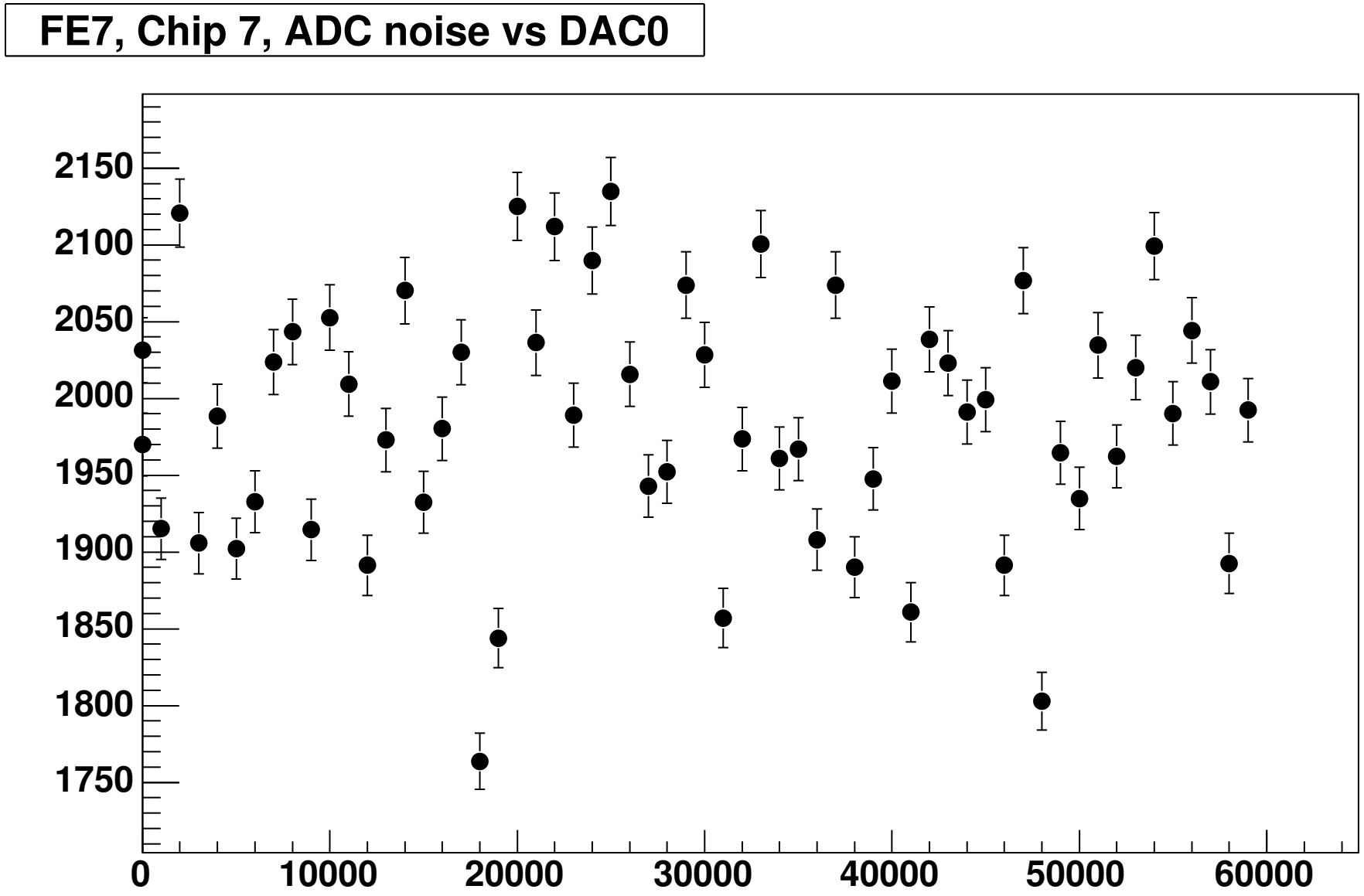
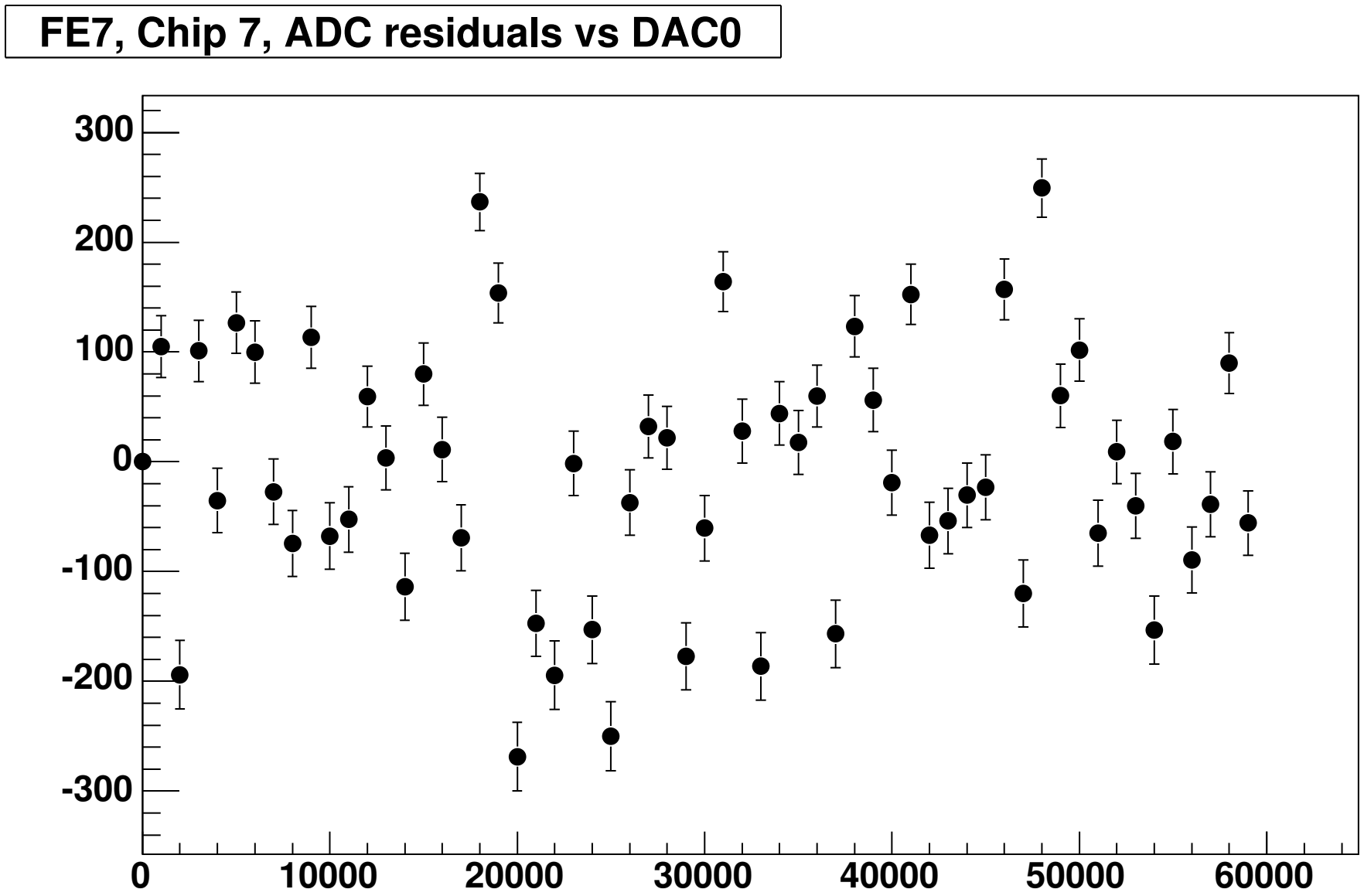
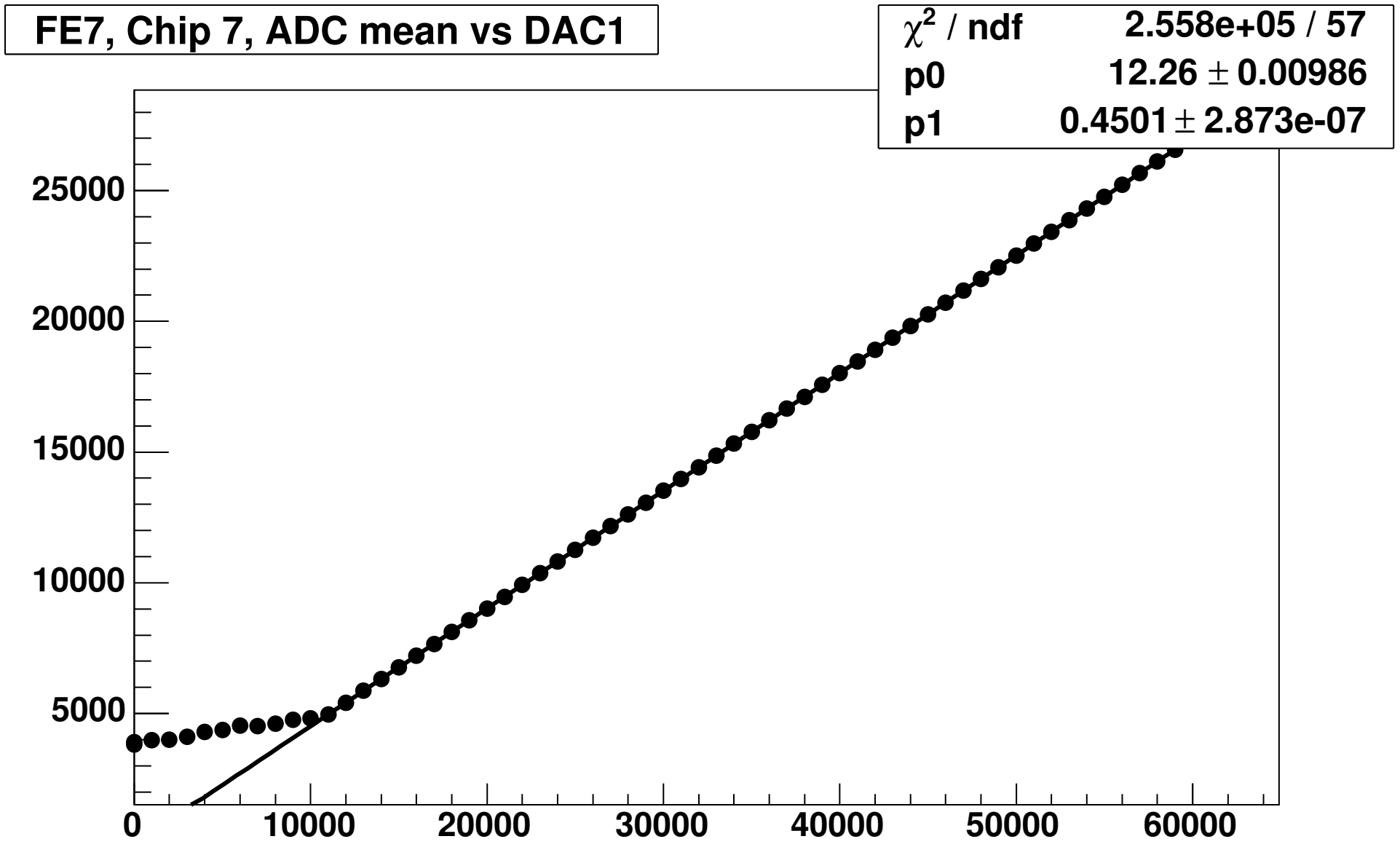
60000


FE7, Chip 6, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 7, ADC mean vs DAC0
χ² / ndf 924.2 / 57
p0 3876 ± 7.679
p1 -0.0008691 ± 0.0002227
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE7, Chip 7, ADC noise vs DAC0
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
60000


FE7, Chip 7, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE7, Chip 7, ADC mean vs DAC1
χ² / ndf 2.558e+05 / 57
p0 12.26 ± 0.00986
p1 0.4501 ± 2.873e-07
25000
20000
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10000
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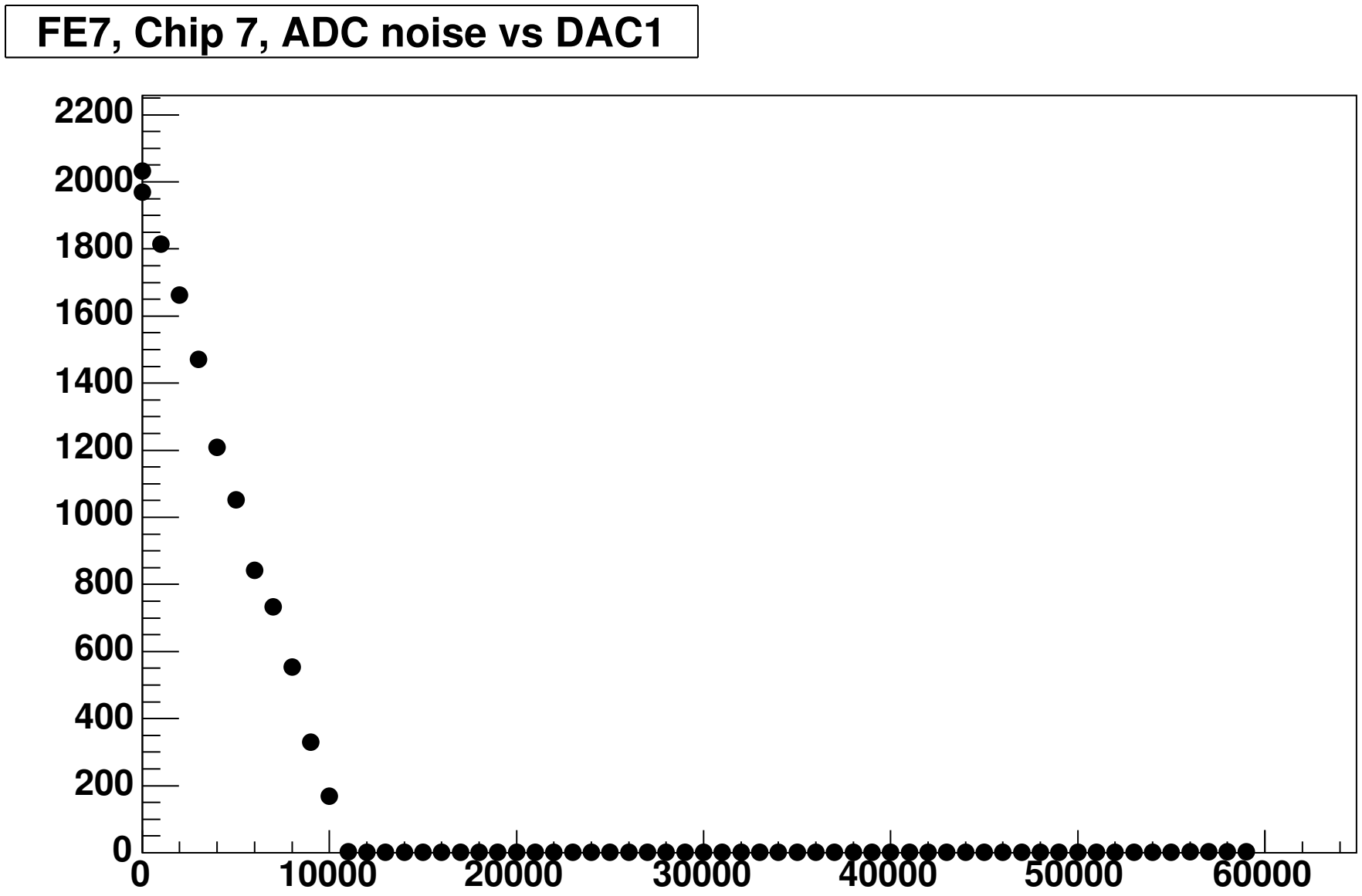
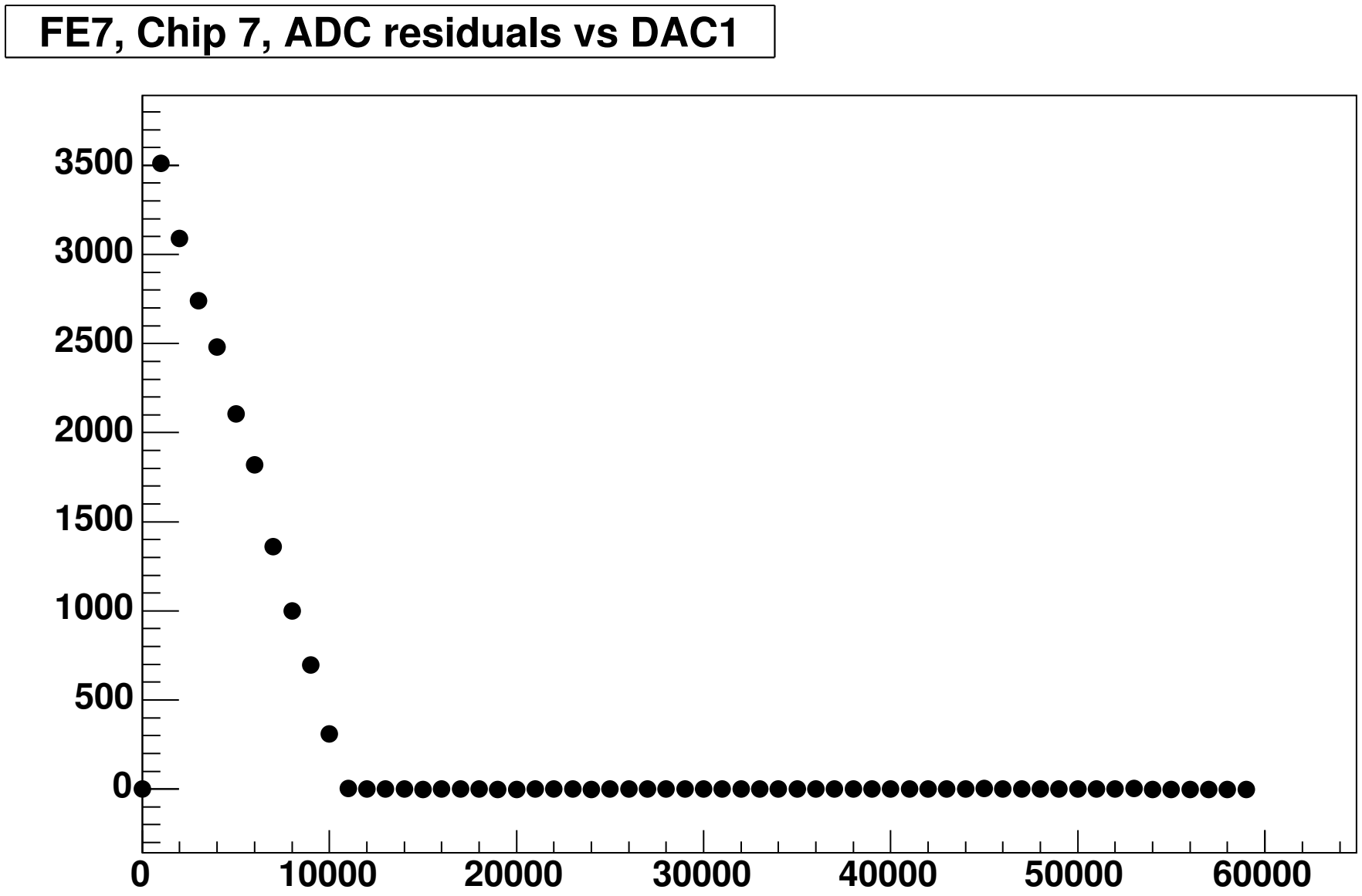
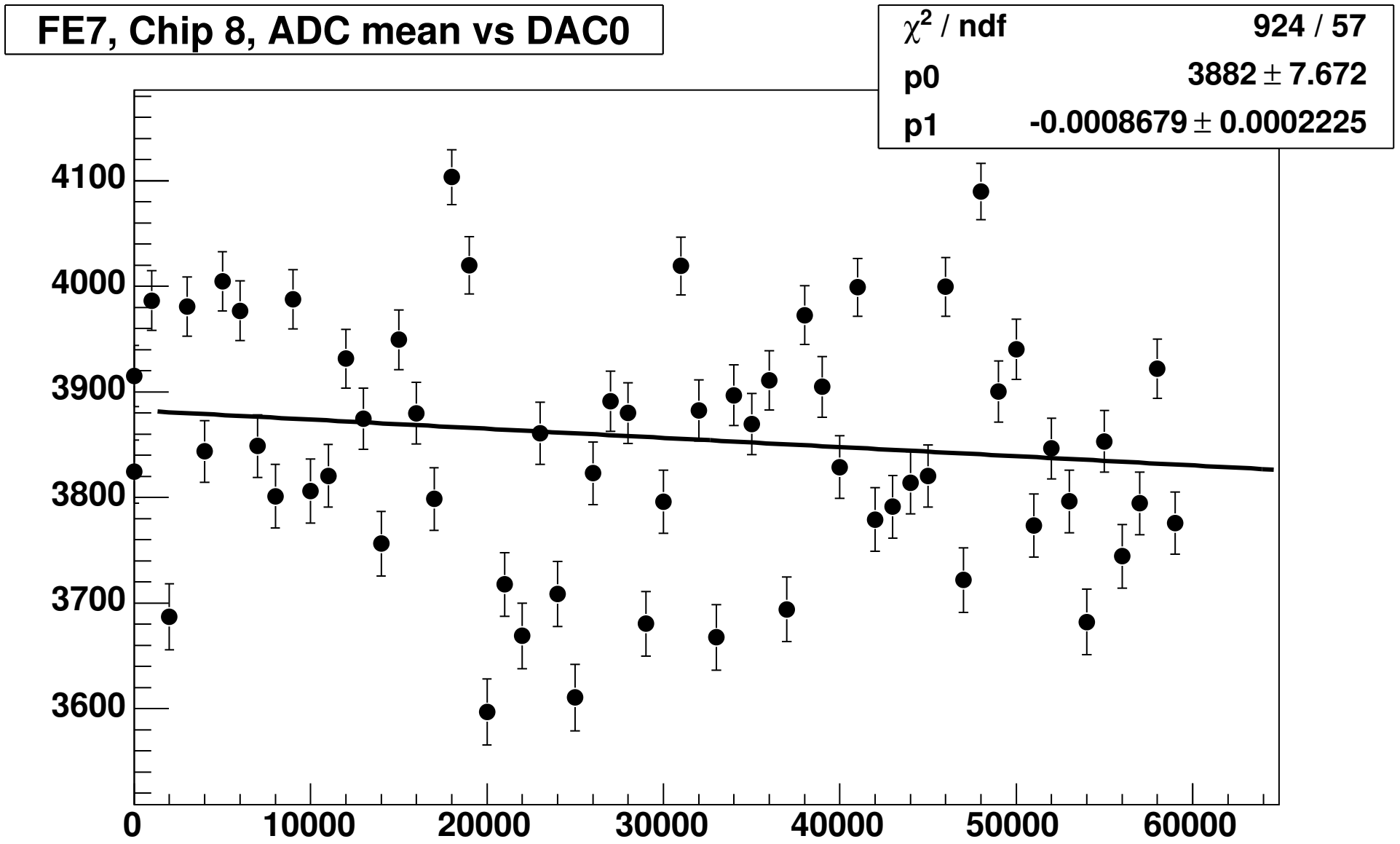
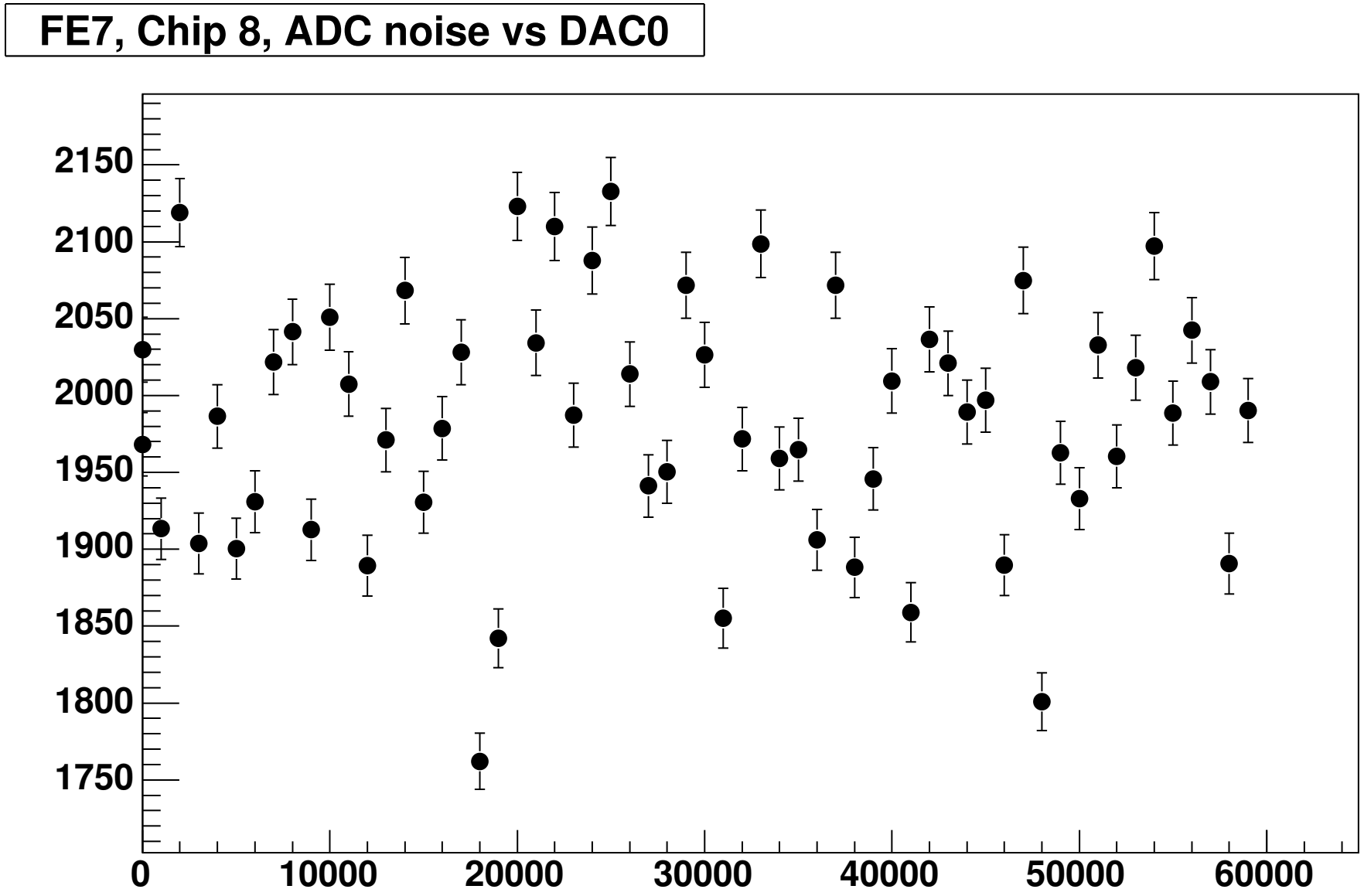
0
10000
20000
30000
40000
50000
60000


FE7, Chip 7, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 7, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 8, ADC mean vs DAC0
χ² / ndf 924 / 57
p0 3882 ± 7.672
p1 -0.0008679 ± 0.0002225
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000


FE7, Chip 8, ADC noise vs DAC0
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
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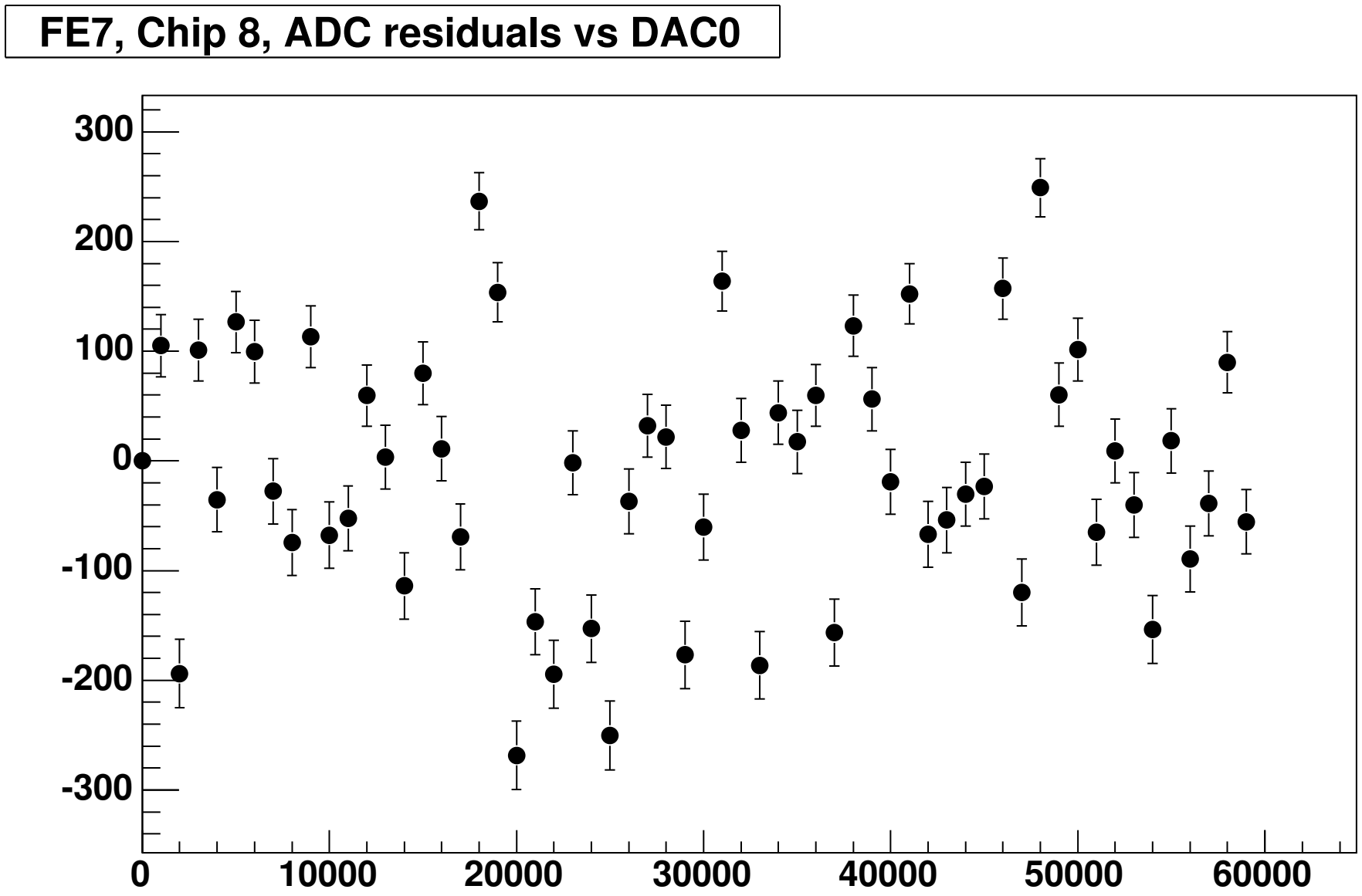
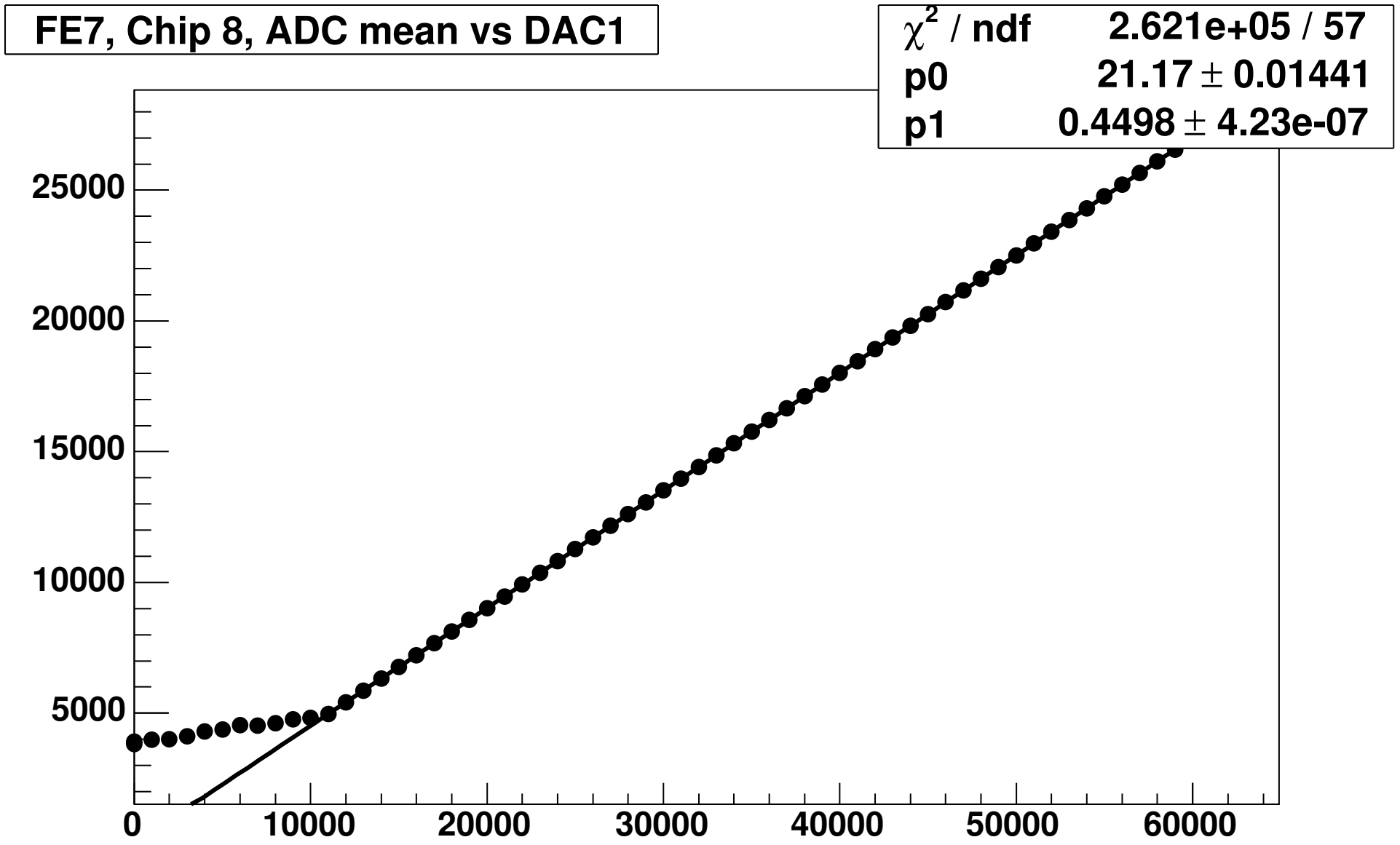
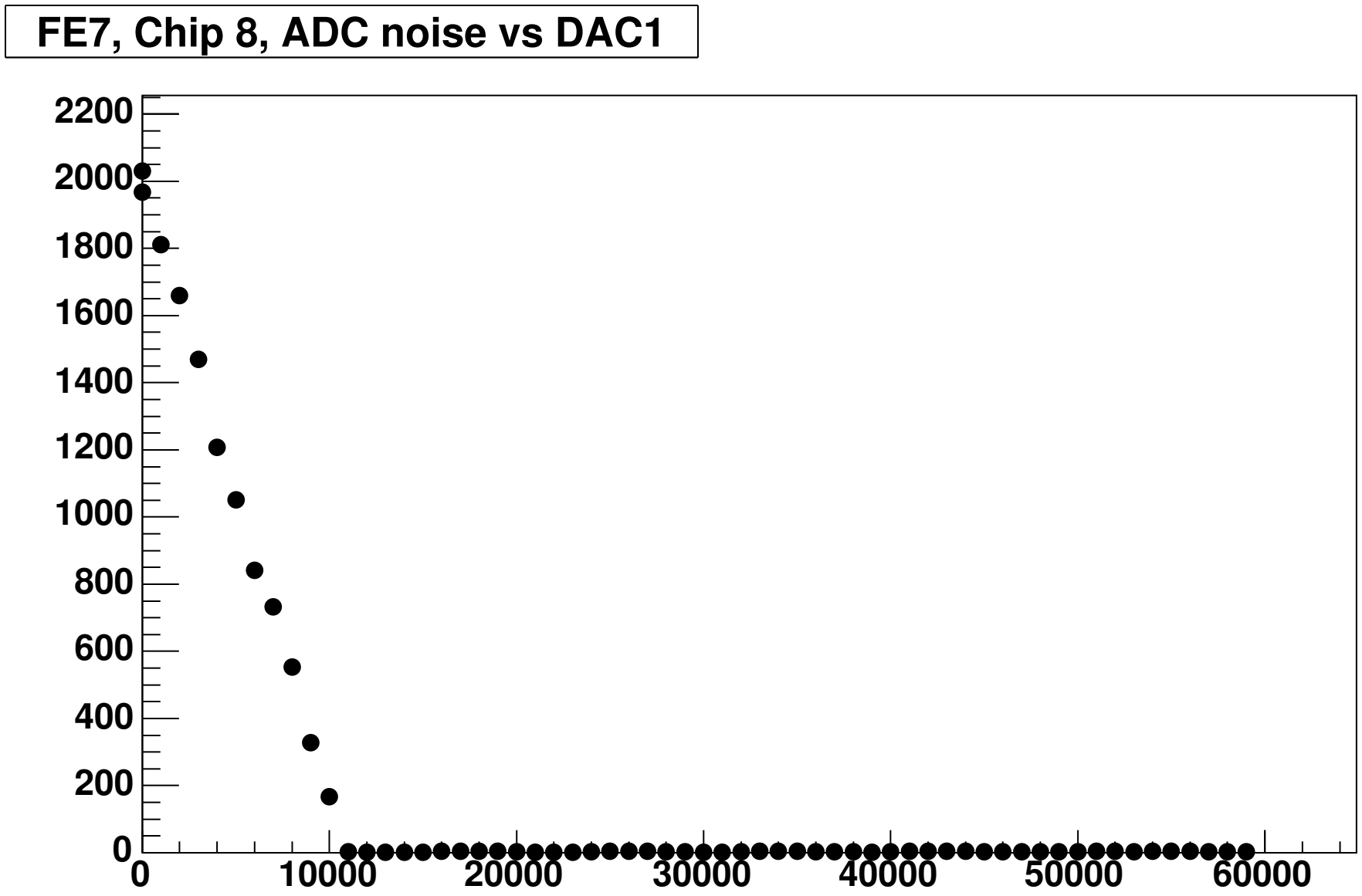
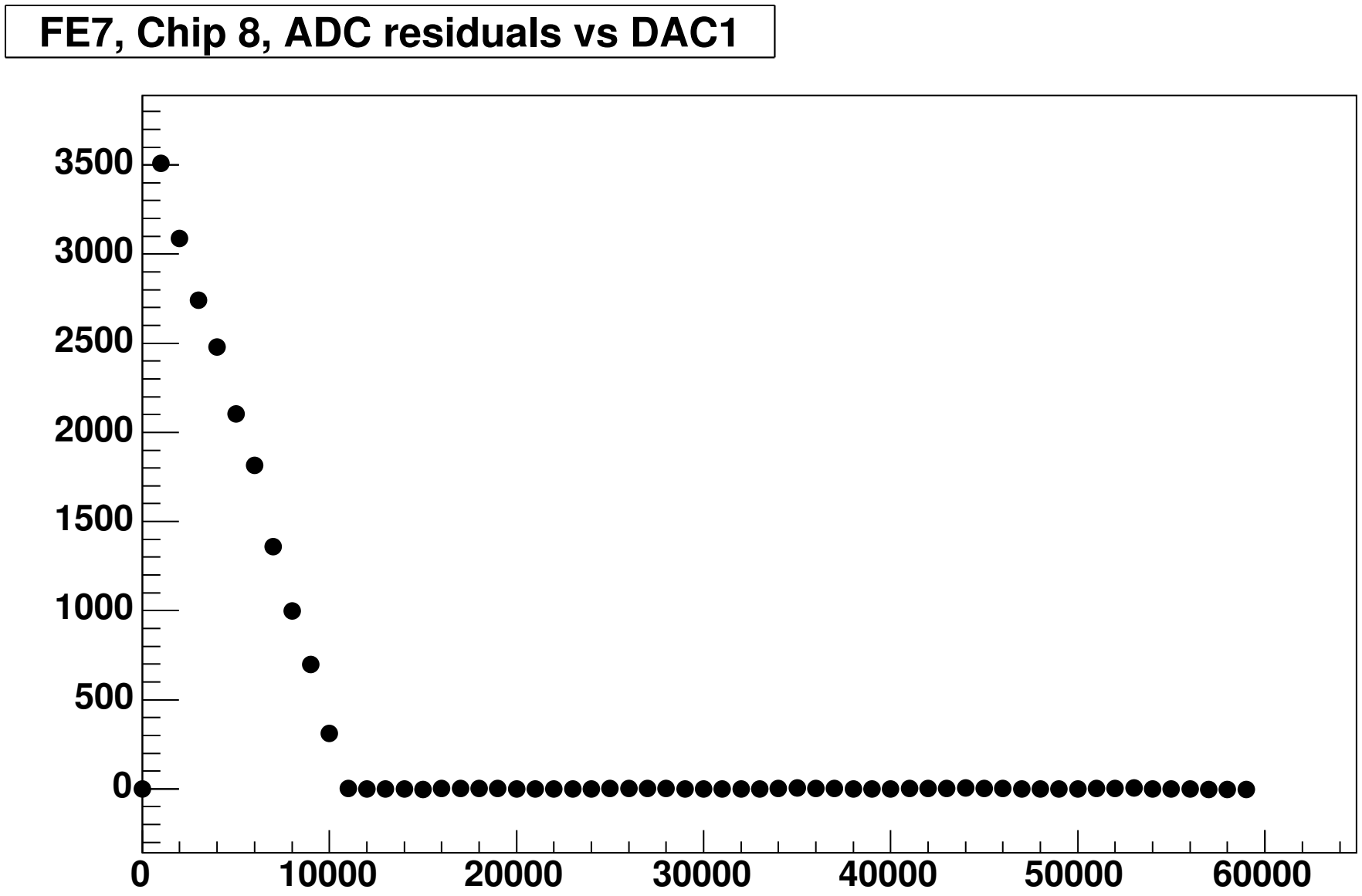
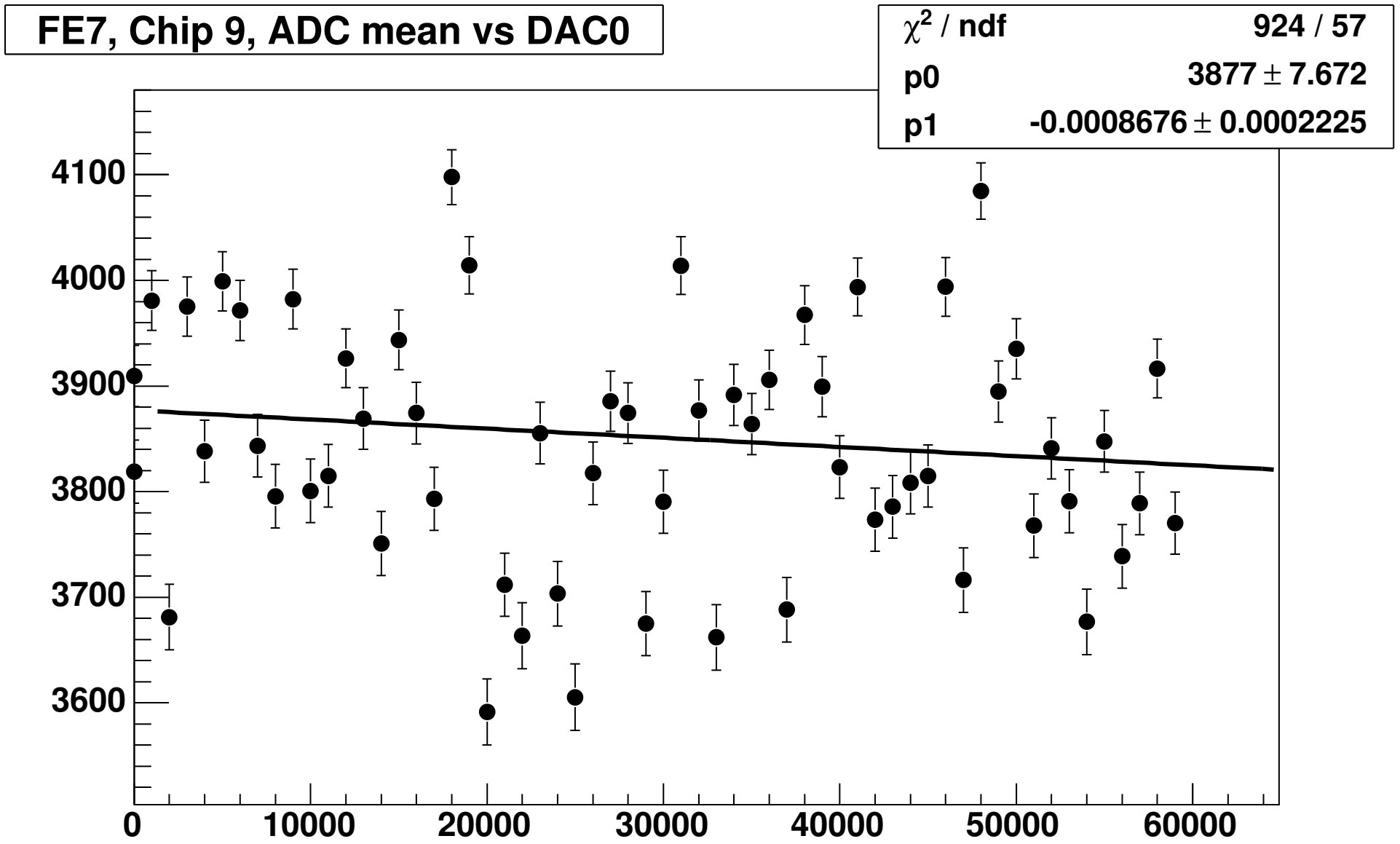
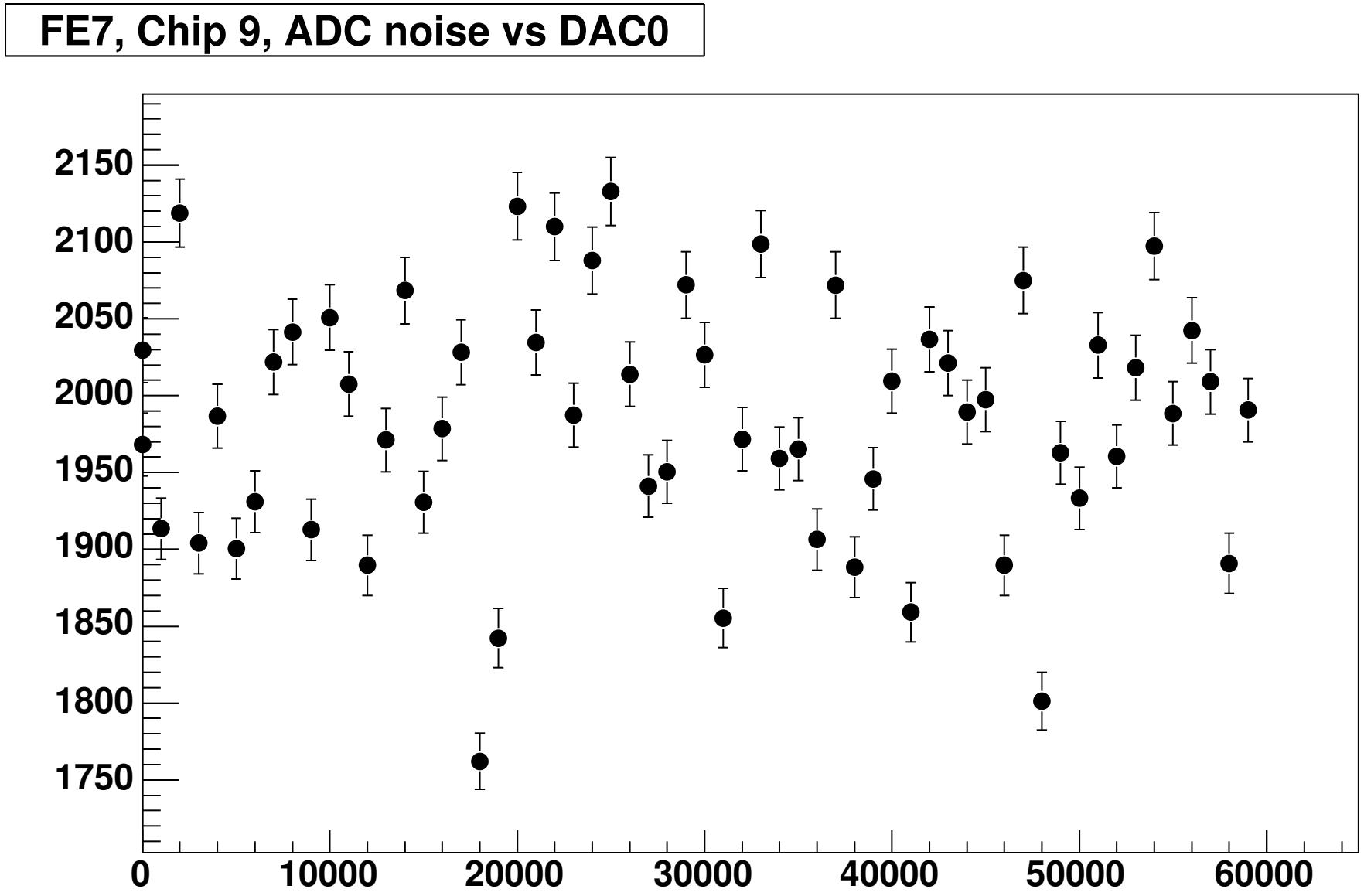

FE7, Chip 8, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

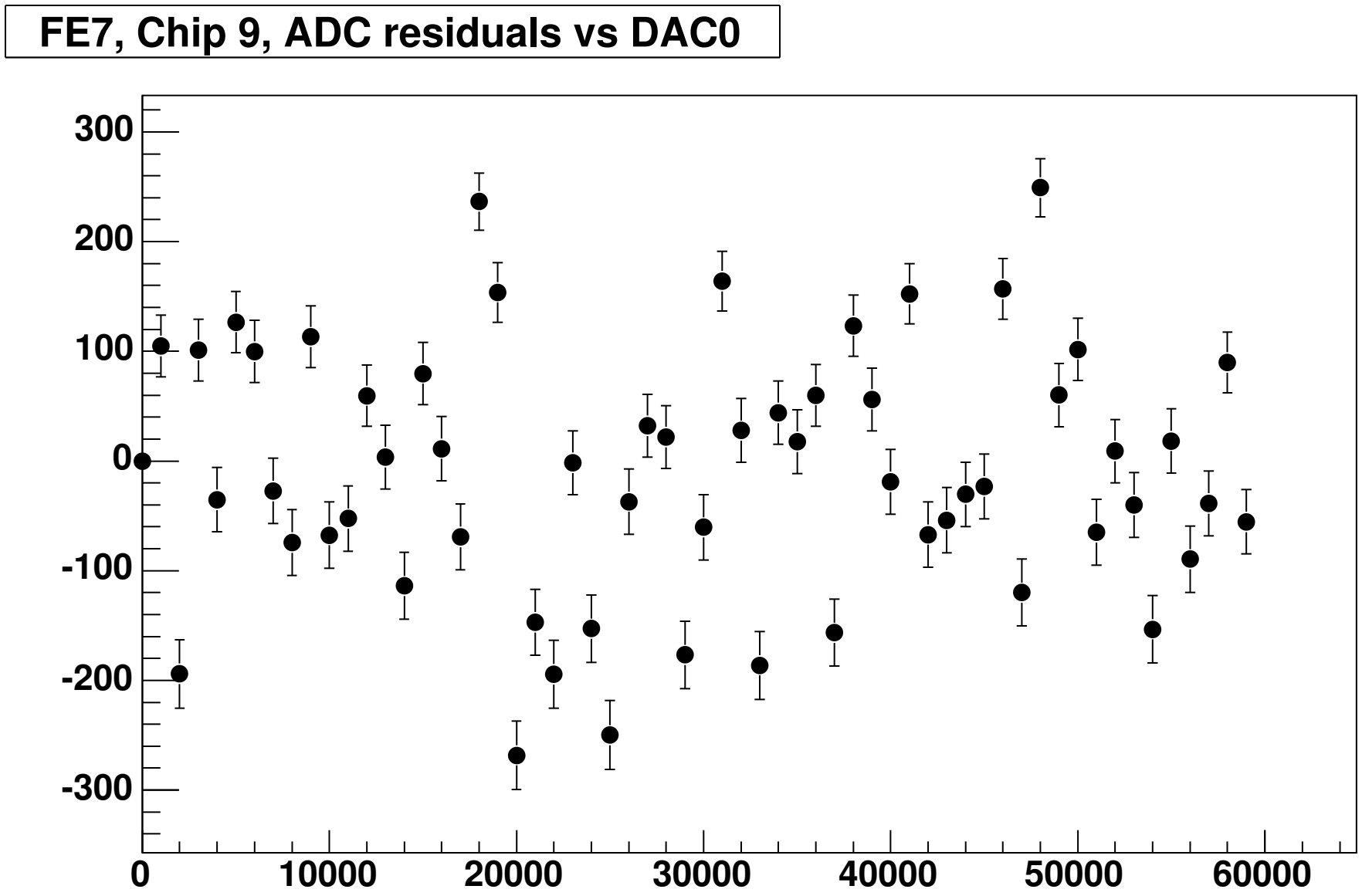

FE7, Chip 8, ADC mean vs DAC1
χ² / ndf 2.621e+05 / 57
p0 21.17 ± 0.01441
p1 0.4498 ± 4.23e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

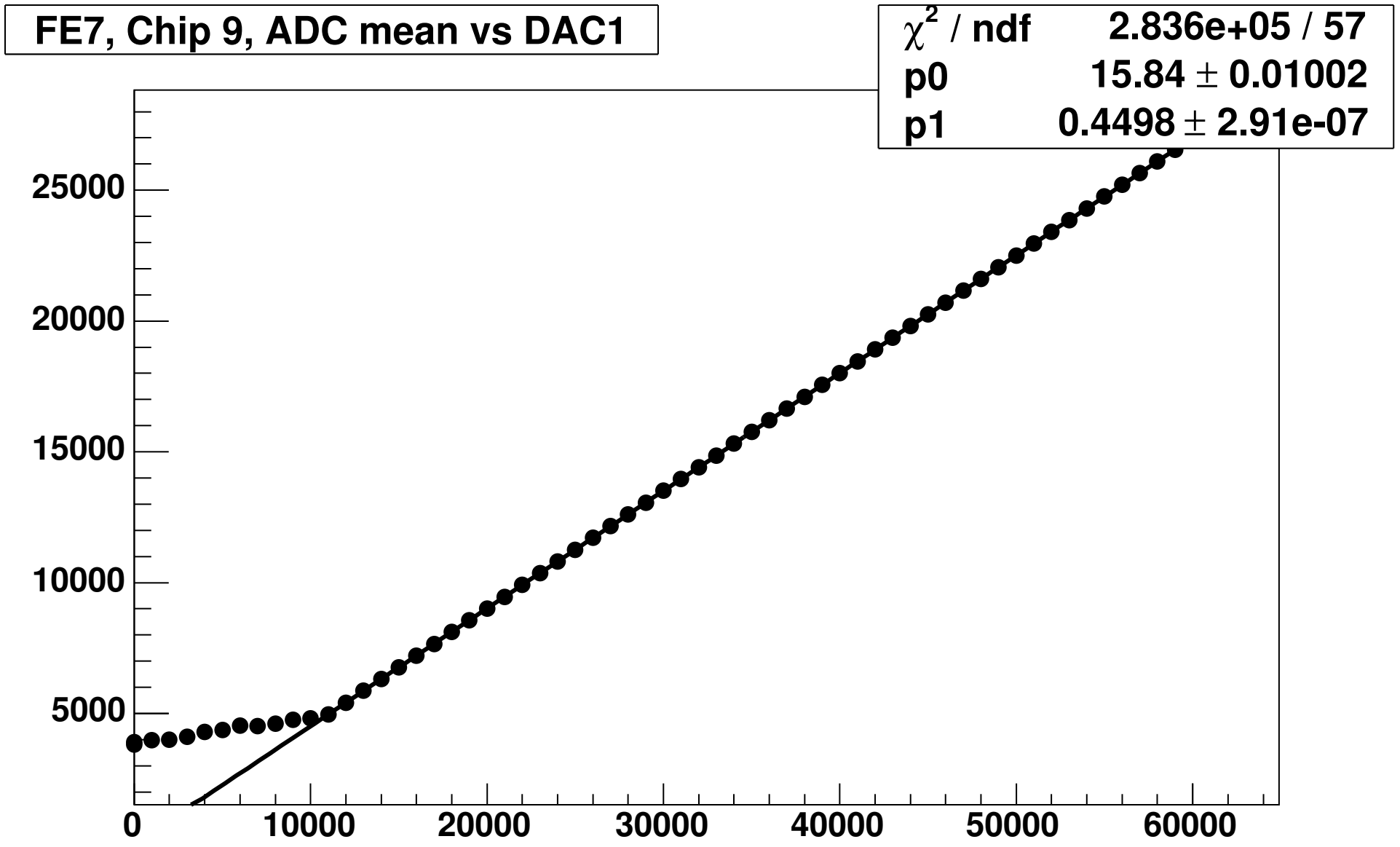

FE7, Chip 8, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

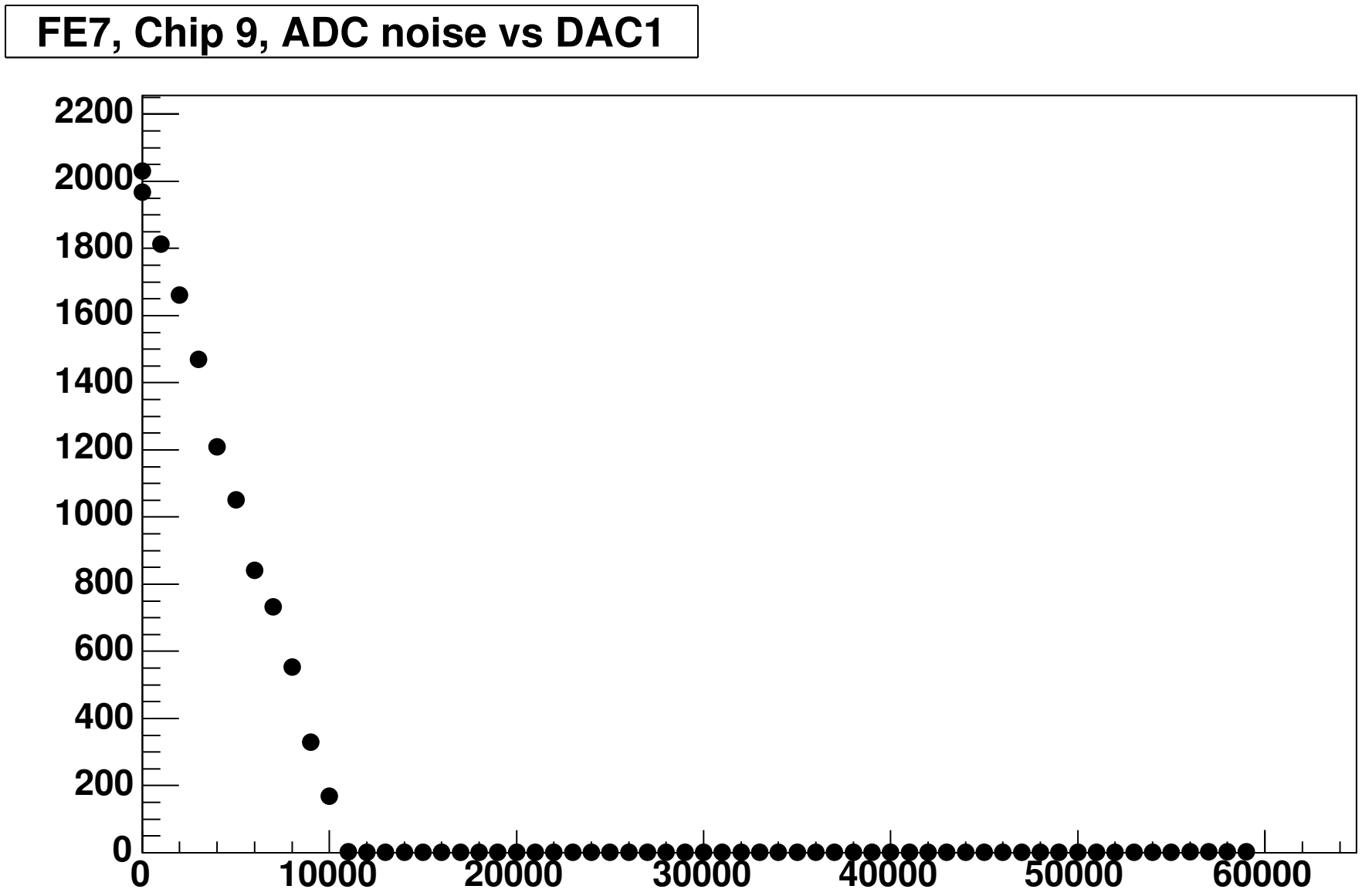

FE7, Chip 8, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

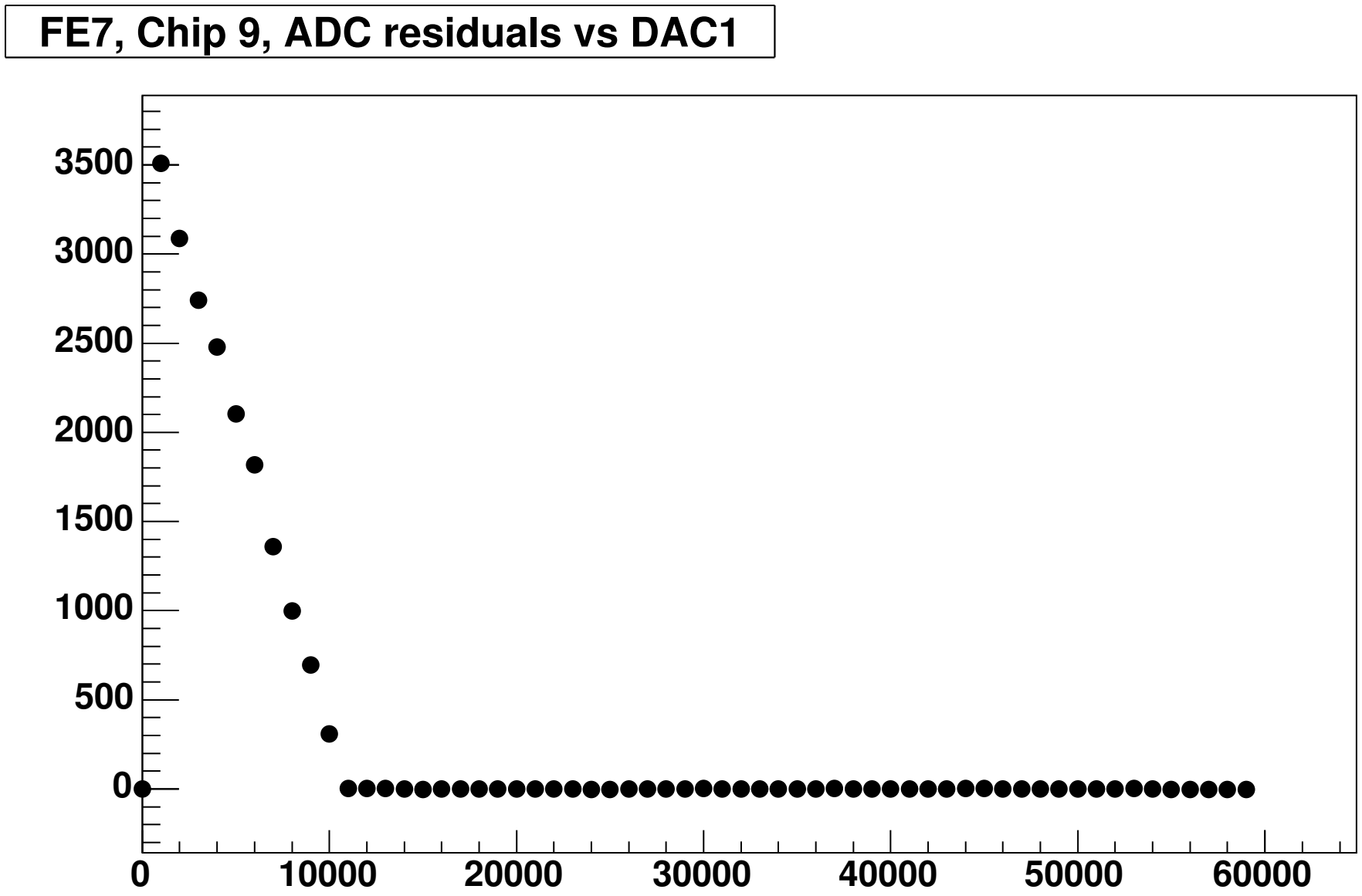

FE7, Chip 9, ADC mean vs DAC0
χ² / ndf 924 / 57
p0 3877 ± 7.672
p1 -0.0008676 ± 0.0002225
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000

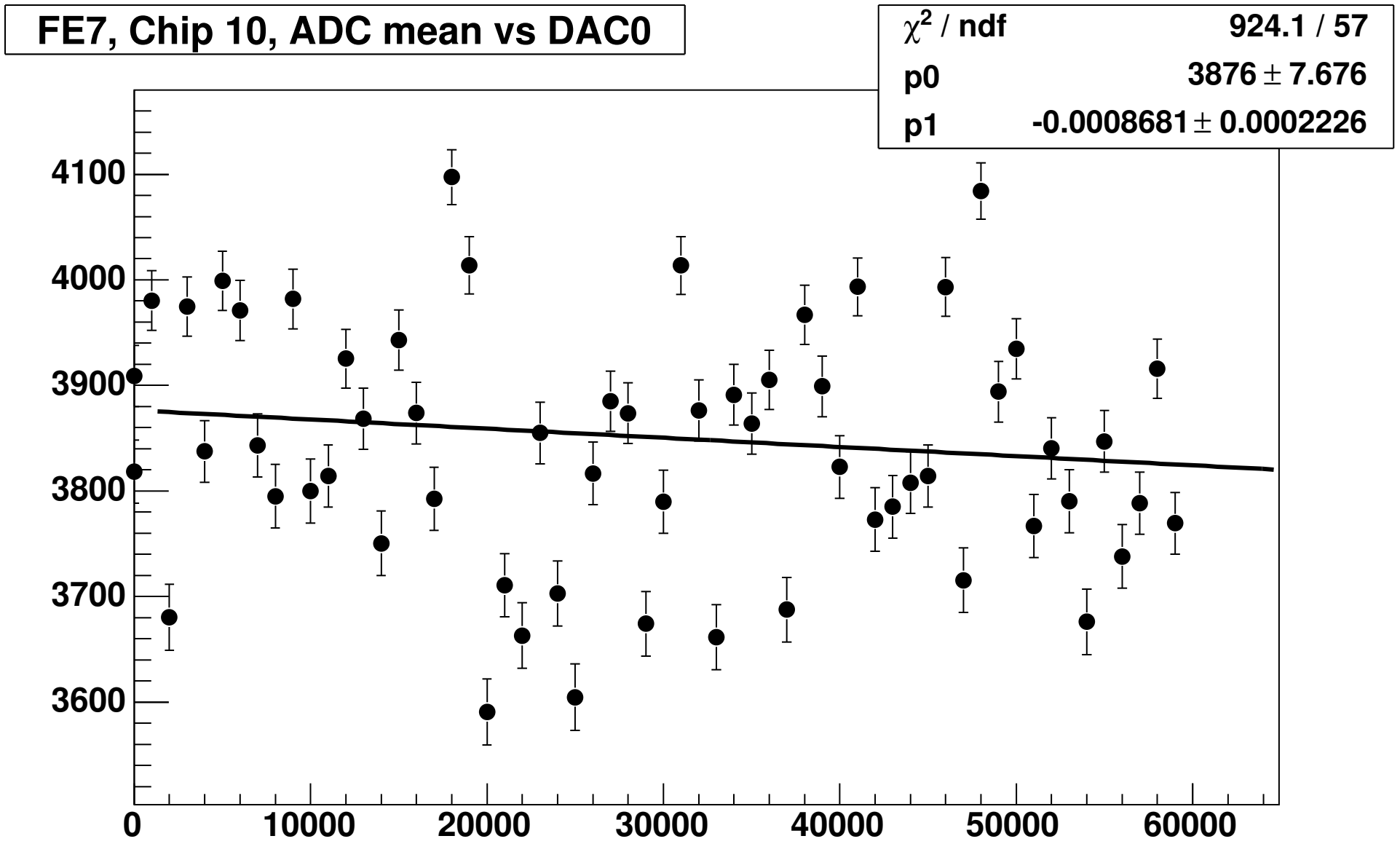

FE7, Chip 9, ADC noise vs DAC0
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
60000

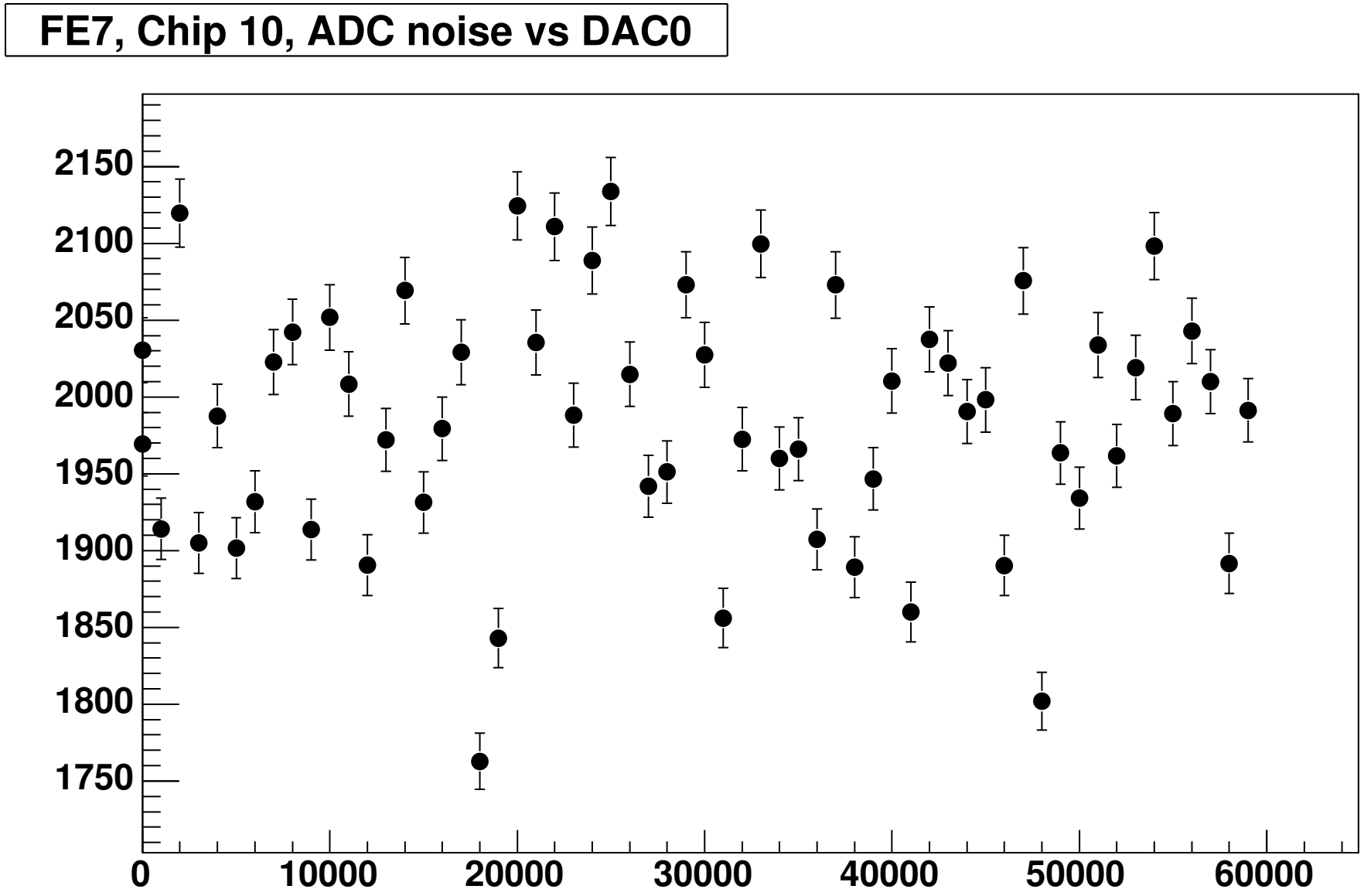

FE7, Chip 9, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

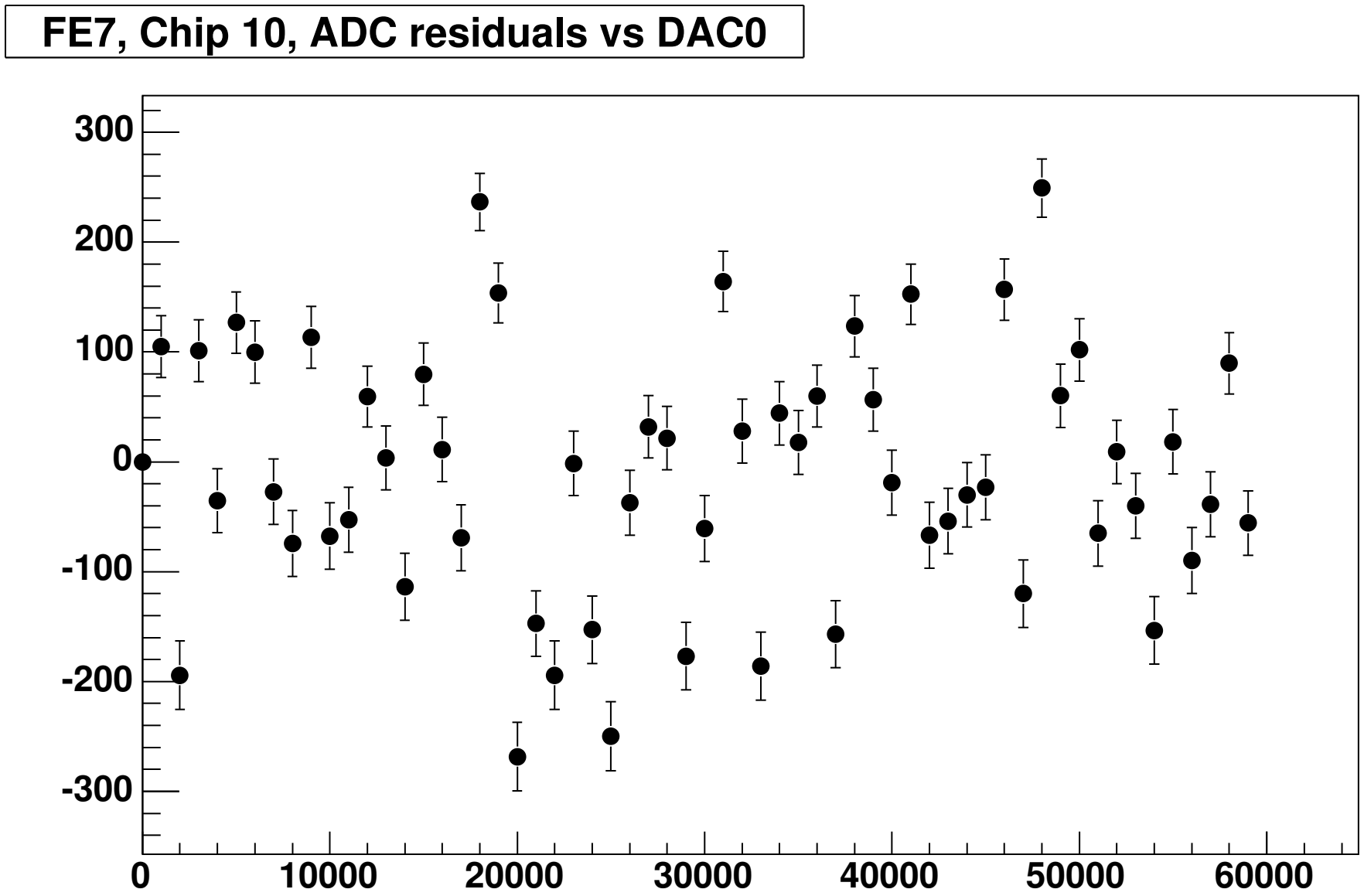

FE7, Chip 9, ADC mean vs DAC1
χ² / ndf 2.836e+05 / 57
p0 15.84 ± 0.01002
p1 0.4498 ± 2.91e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

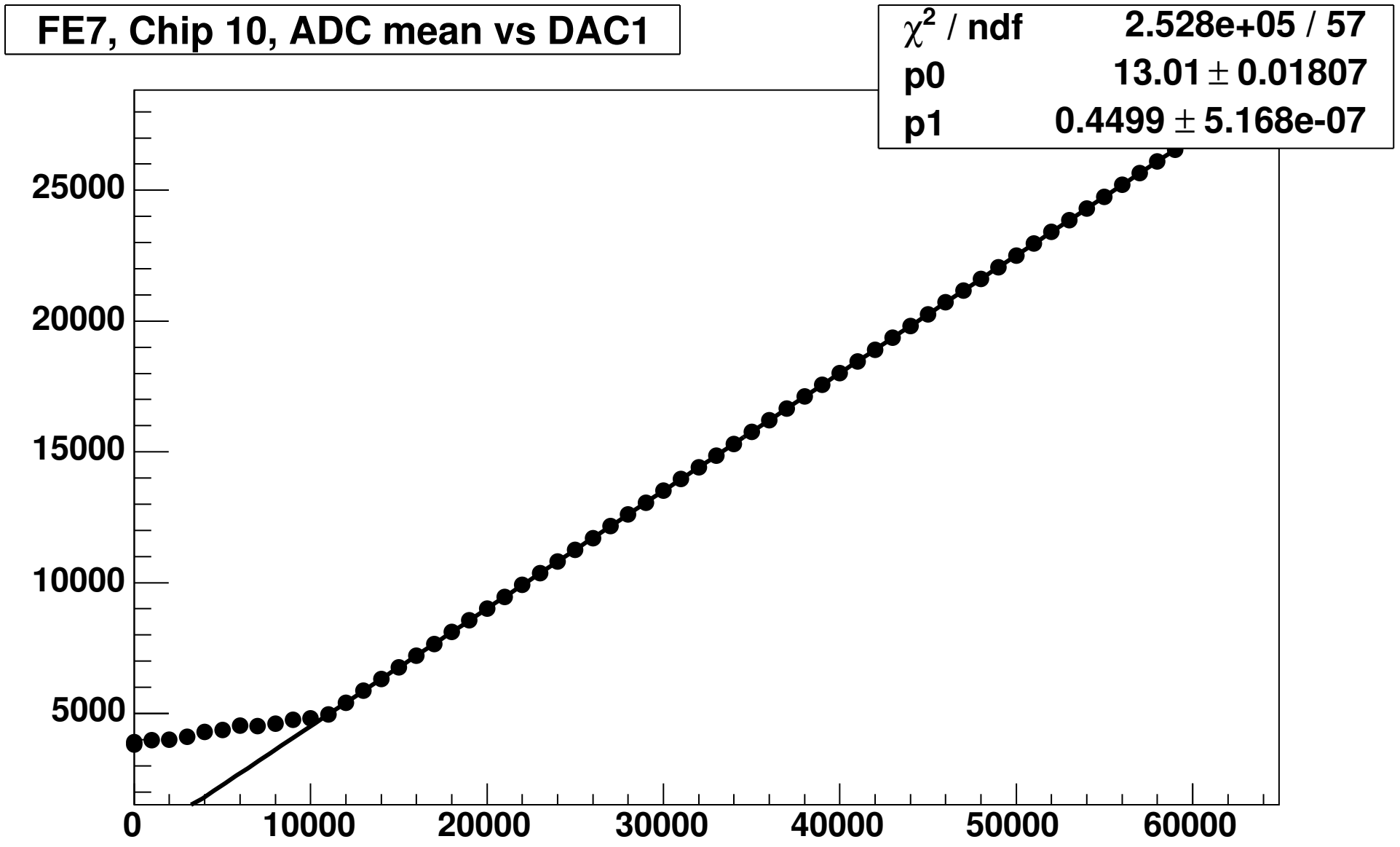

FE7, Chip 9, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

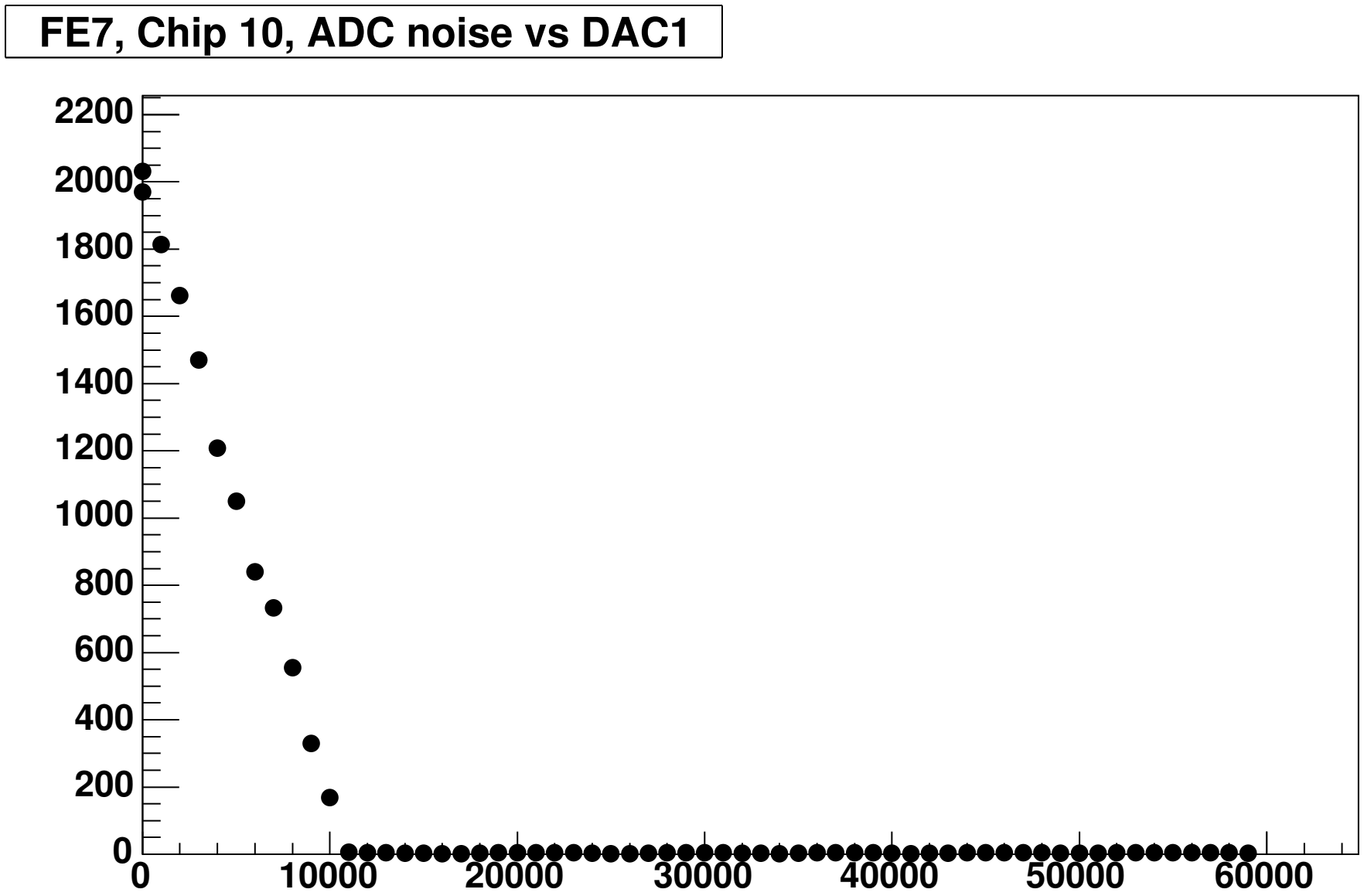

FE7, Chip 9, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

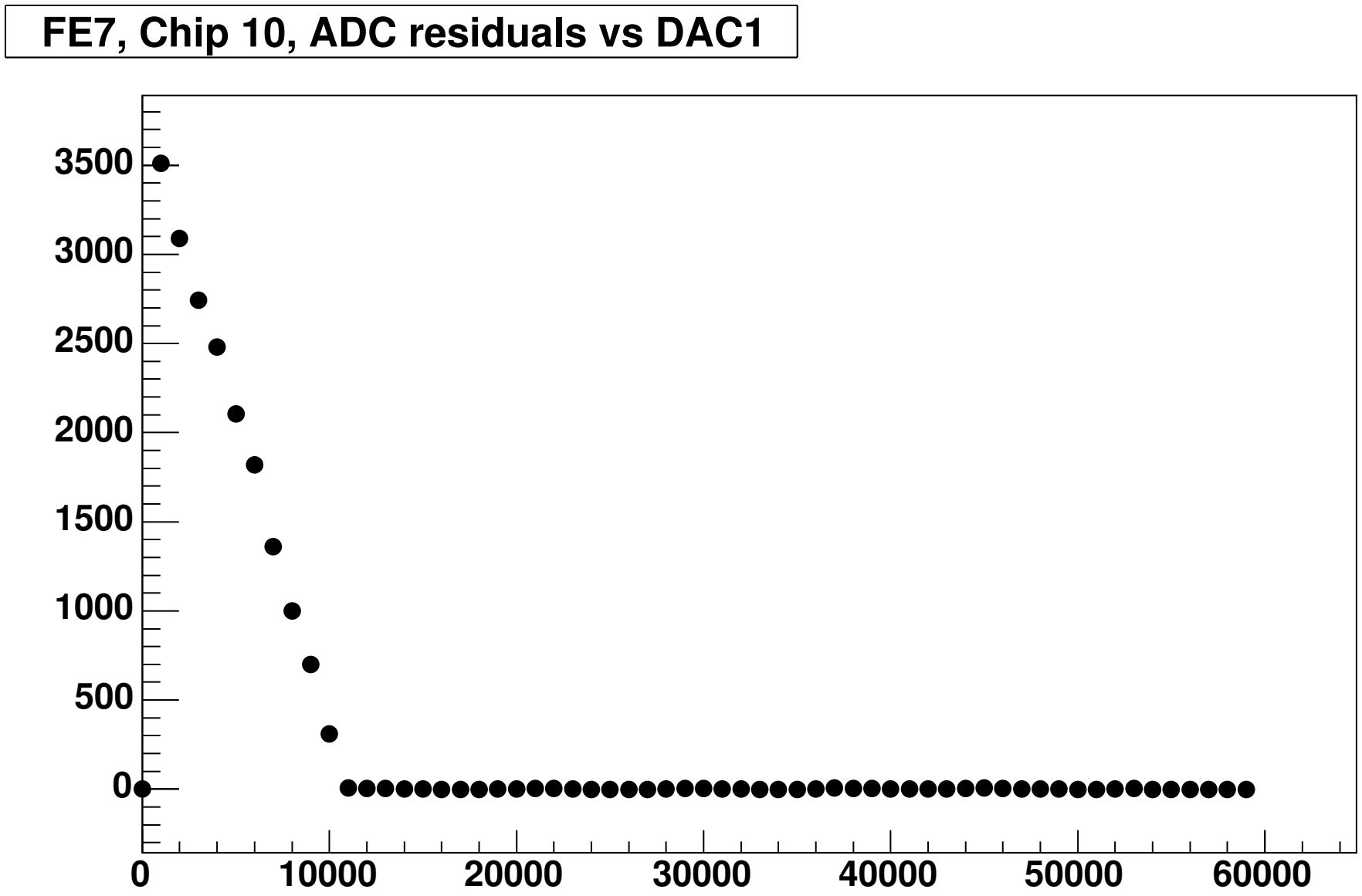

FE7, Chip 10, ADC mean vs DAC0
χ² / ndf 924.1 / 57
p0 3876 ± 7.676
p1 -0.0008681 ± 0.0002226
4100
4000
3900
3800
3700
3600
0
10000
20000
30000
40000
50000
60000

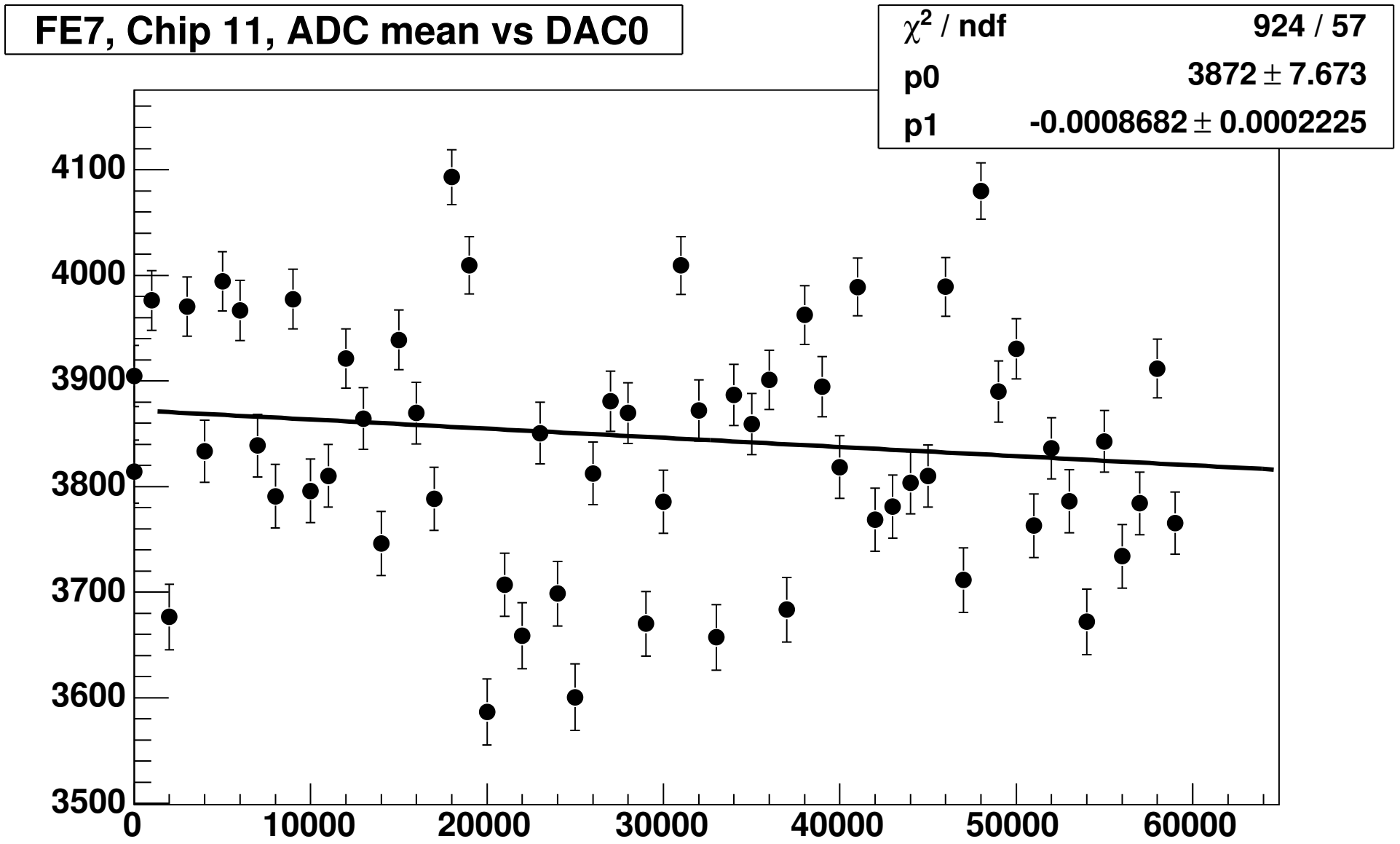

FE7, Chip 10, ADC noise vs DAC0
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
60000

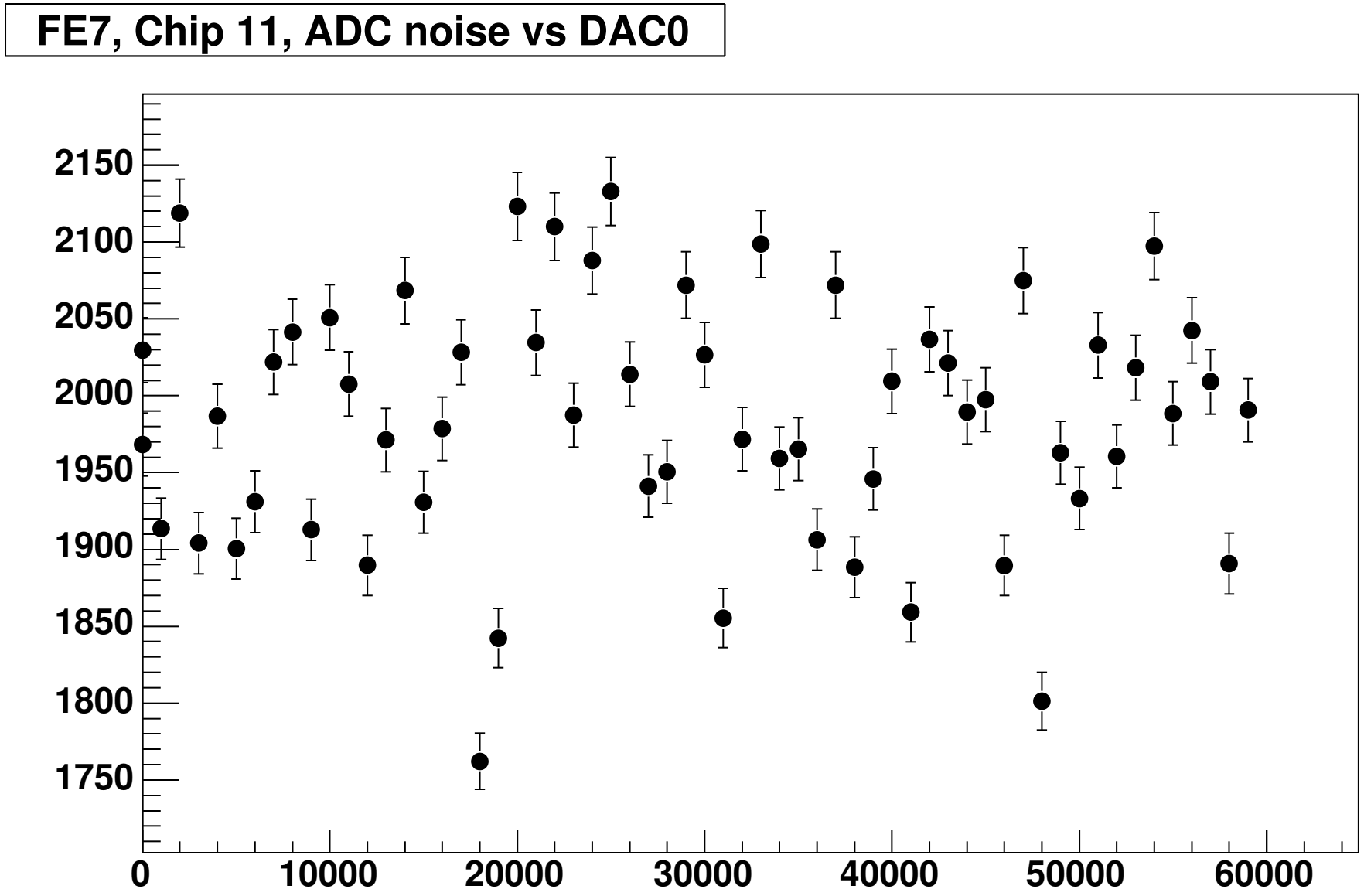

FE7, Chip 10, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000

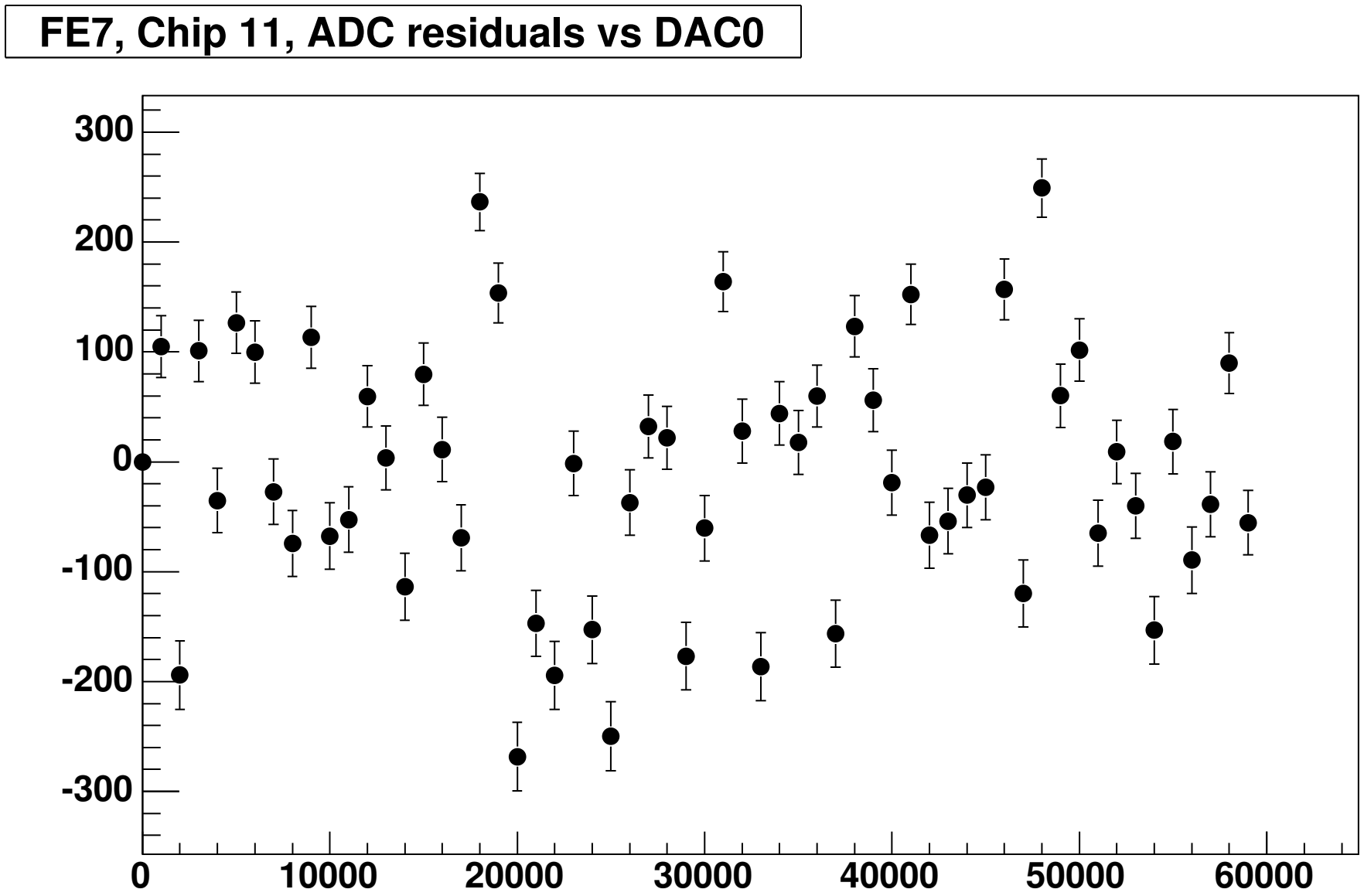

FE7, Chip 10, ADC mean vs DAC1
χ² / ndf 2.528e+05 / 57
p0 13.01 ± 0.01807
p1 0.4499 ± 5.168e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000

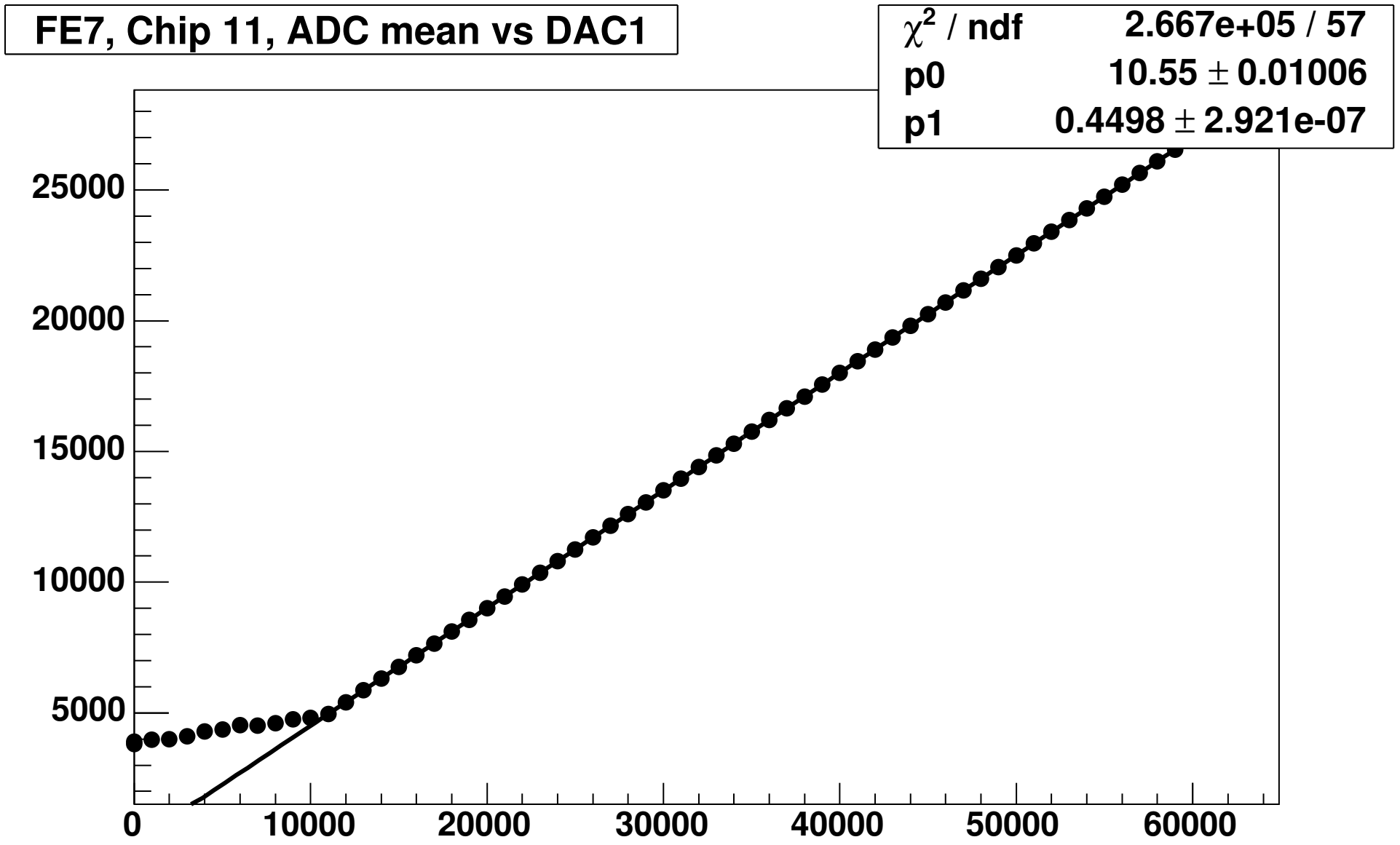

FE7, Chip 10, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000

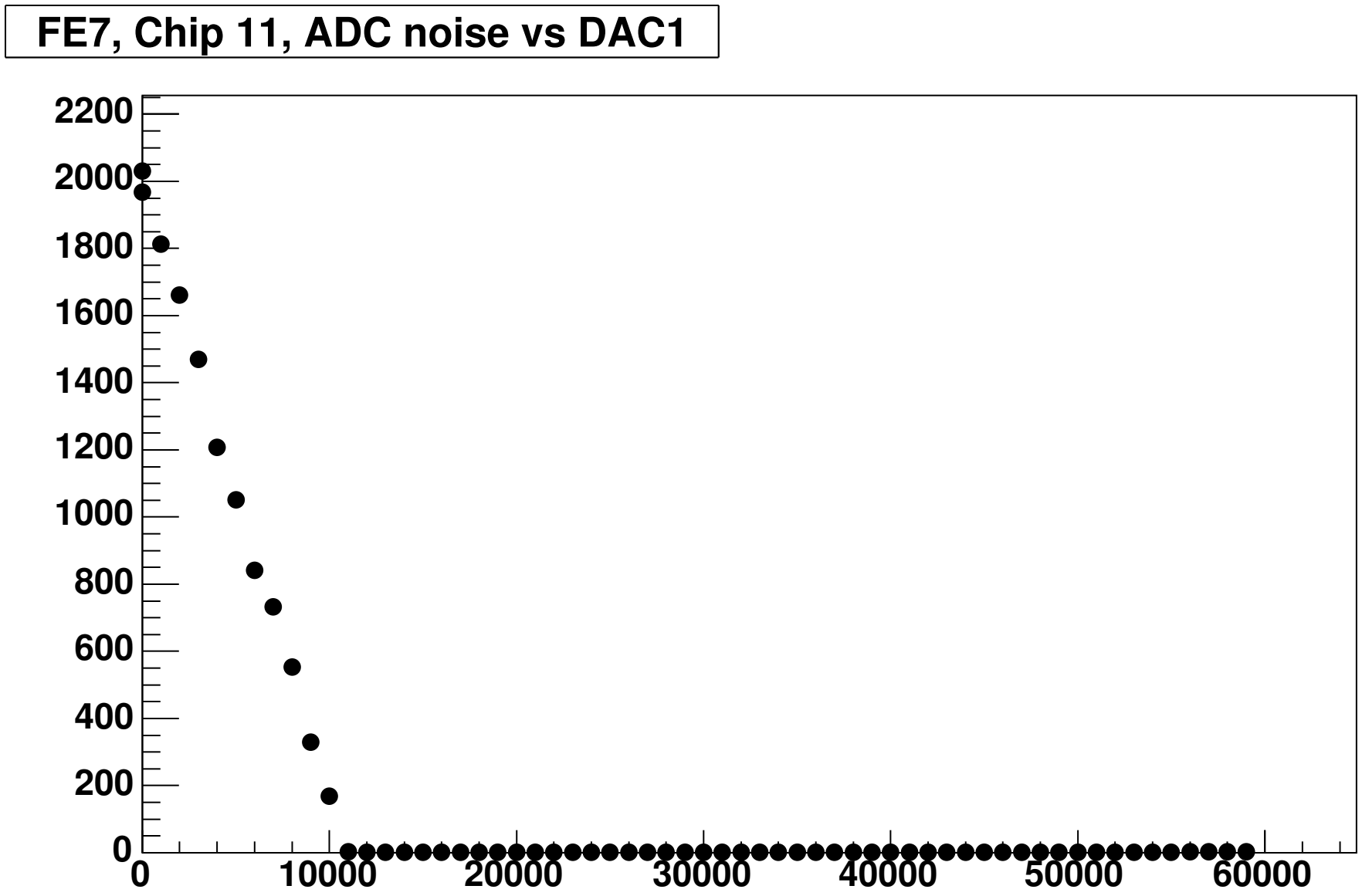

FE7, Chip 10, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000

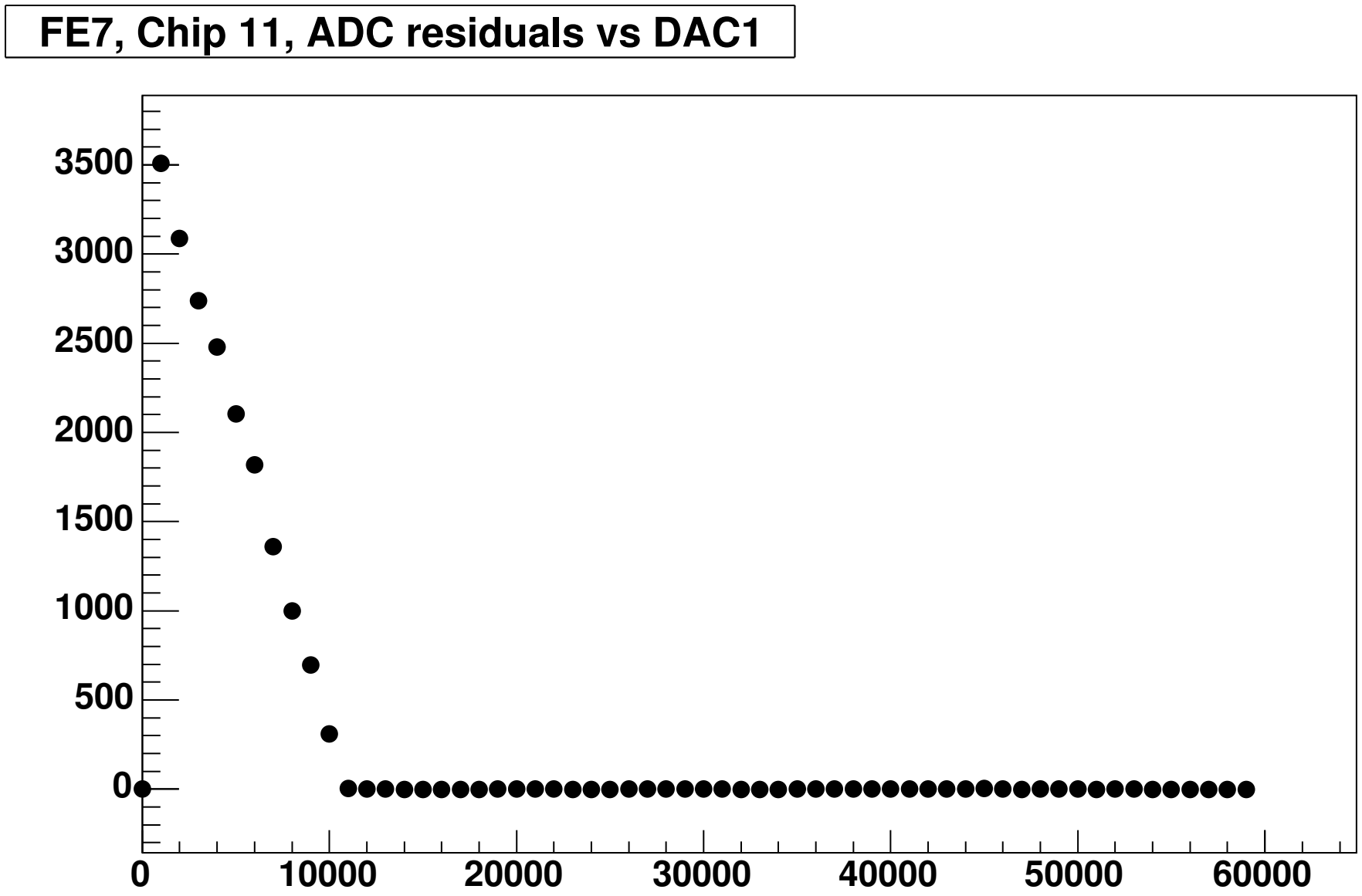

FE7, Chip 11, ADC mean vs DAC0
χ² / ndf 924 / 57
p0 3872 ± 7.673
p1 -0.0008682 ± 0.0002225
4100
4000
3900
3800
3700
3600
3500
0
10000
20000
30000
40000
50000
60000

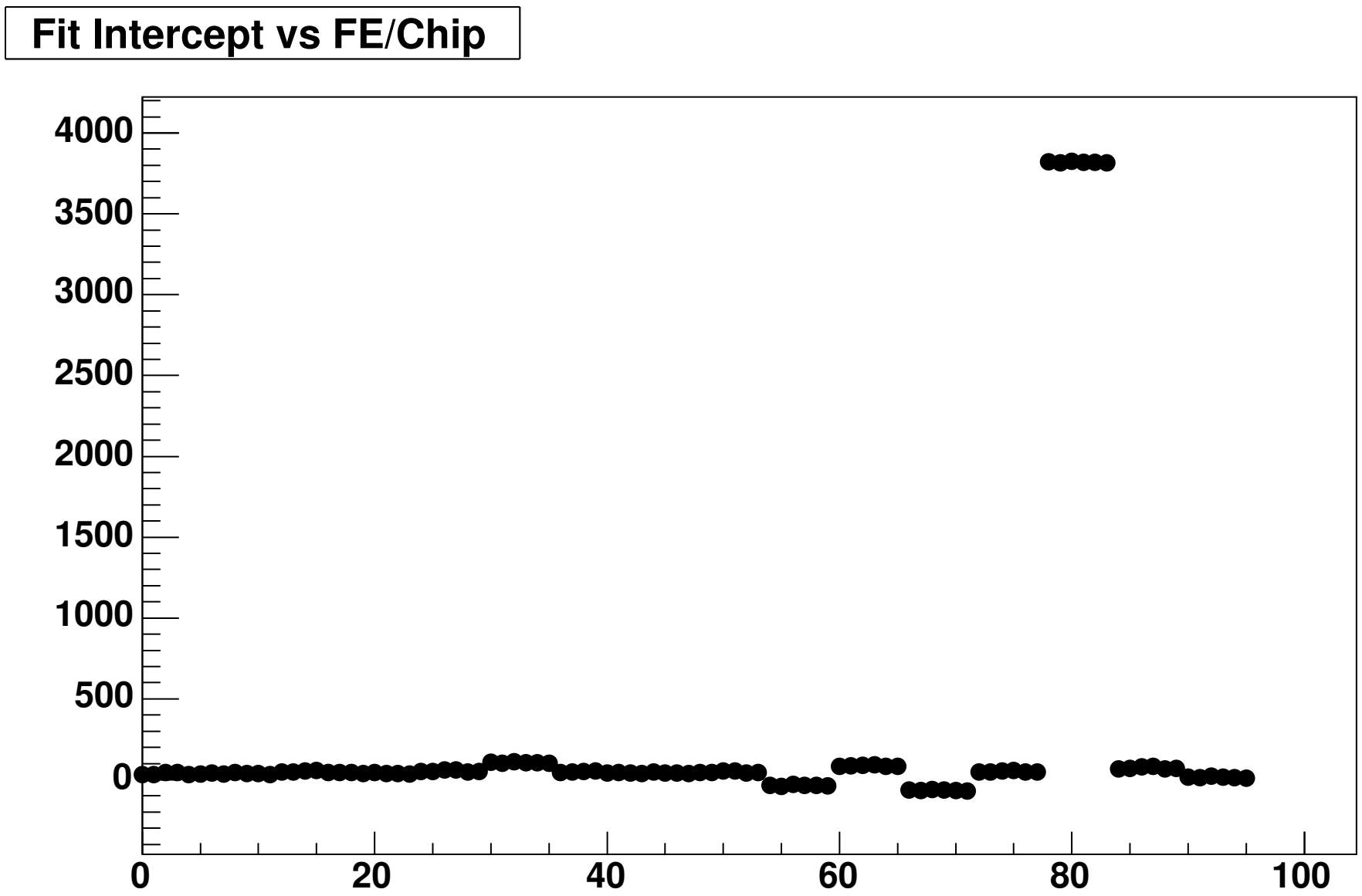

FE7, Chip 11, ADC noise vs DAC0
2150
2100
2050
2000
1950
1900
1850
1800
1750
0
10000
20000
30000
40000
50000
60000

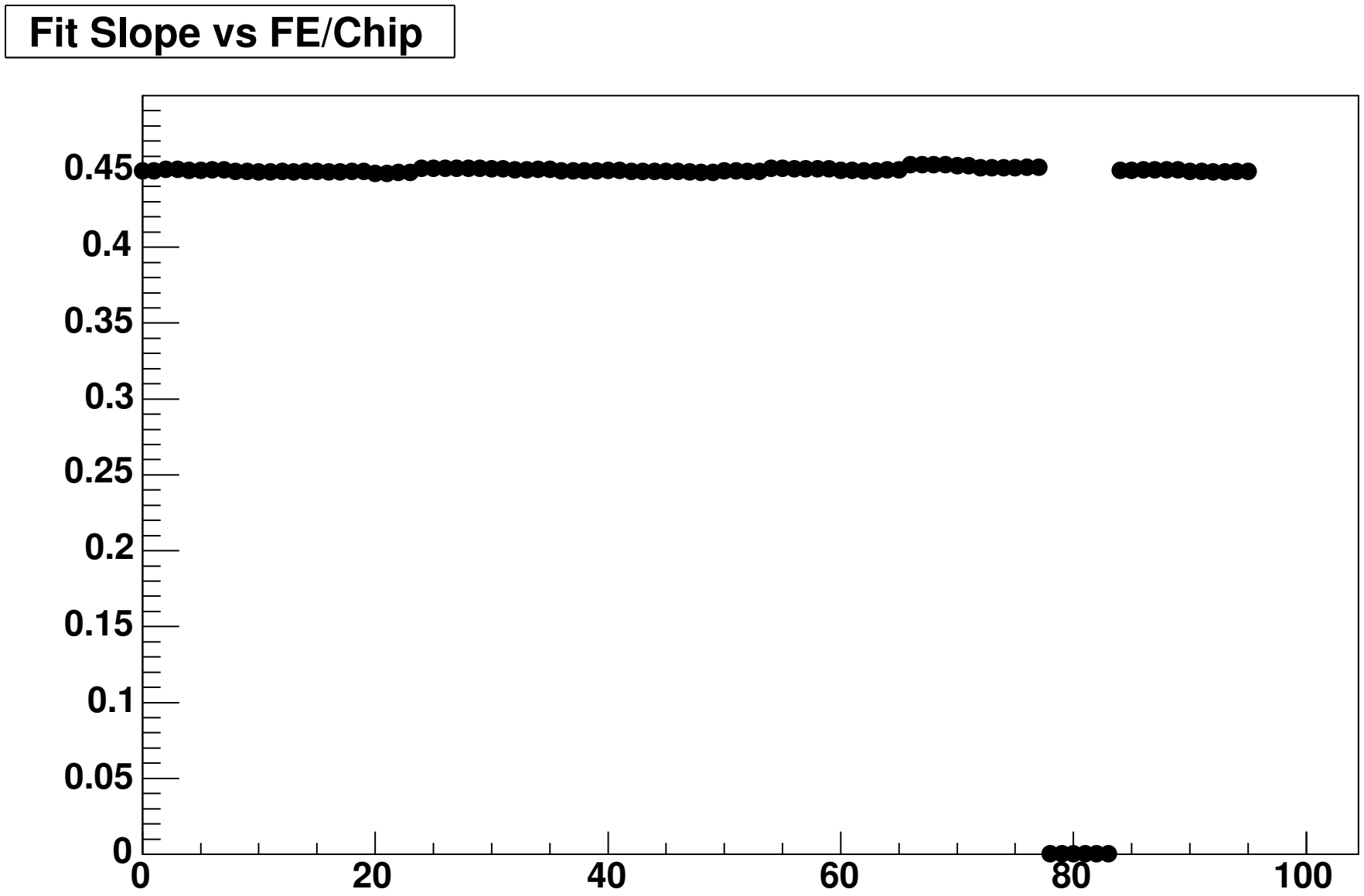

FE7, Chip 11, ADC residuals vs DAC0
300
200
100
0
-100
-200
-300
0
10000
20000
30000
40000
50000
60000


FE7, Chip 11, ADC mean vs DAC1
χ² / ndf 2.667e+05 / 57
p0 10.55 ± 0.01006
p1 0.4498 ± 2.921e-07
25000
20000
15000
10000
5000
0
10000
20000
30000
40000
50000
60000


FE7, Chip 11, ADC noise vs DAC1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000


FE7, Chip 11, ADC residuals vs DAC1
3500
3000
2500
2000
1500
1000
500
0
0
10000
20000
30000
40000
50000
60000


Fit Intercept vs FE/Chip
4000
3500
3000
2500
2000
1500
1000
500
0
0
20
40
60
80
100


Fit Slope vs FE/Chip
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
20
40
60
80
100