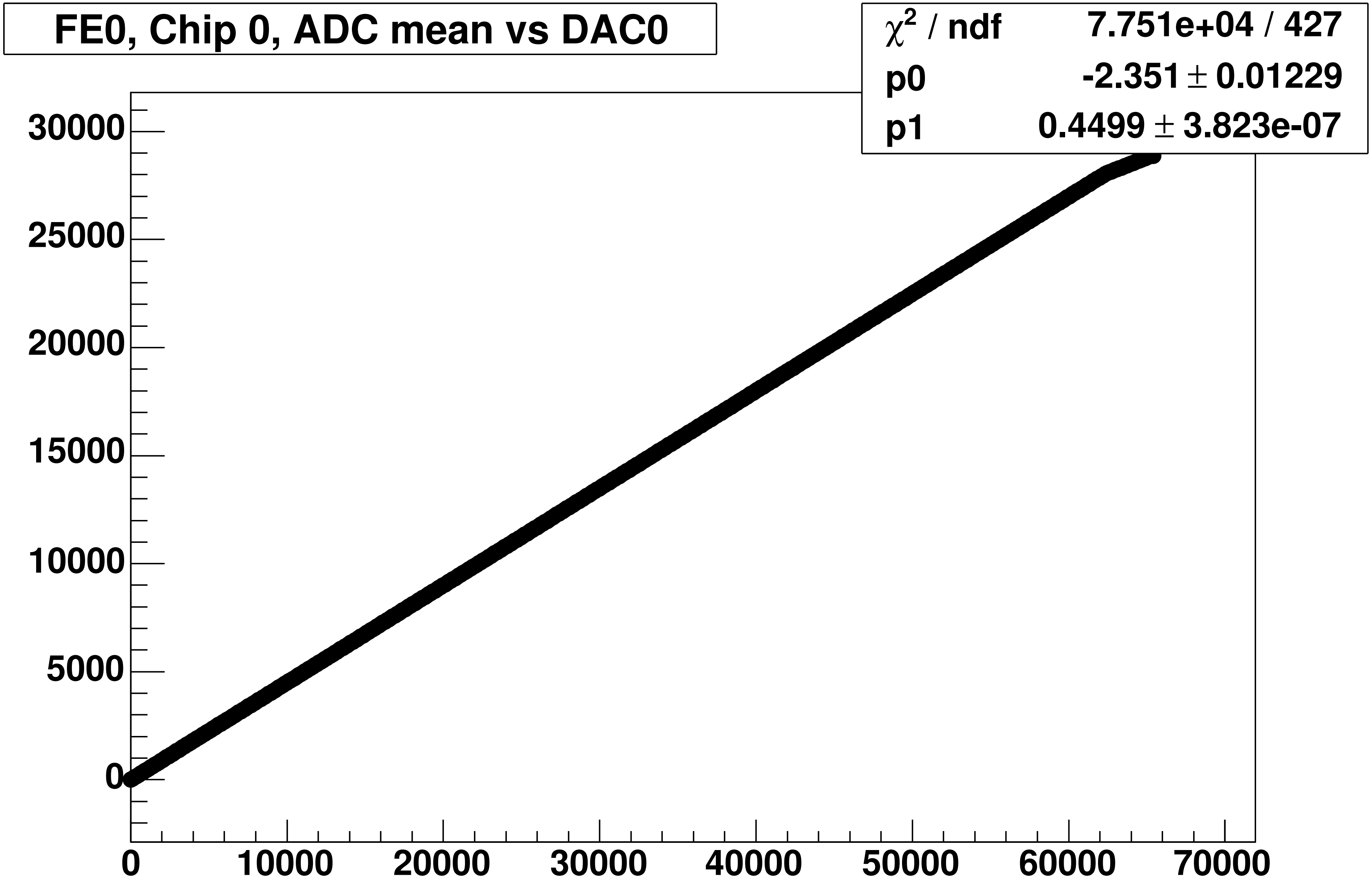
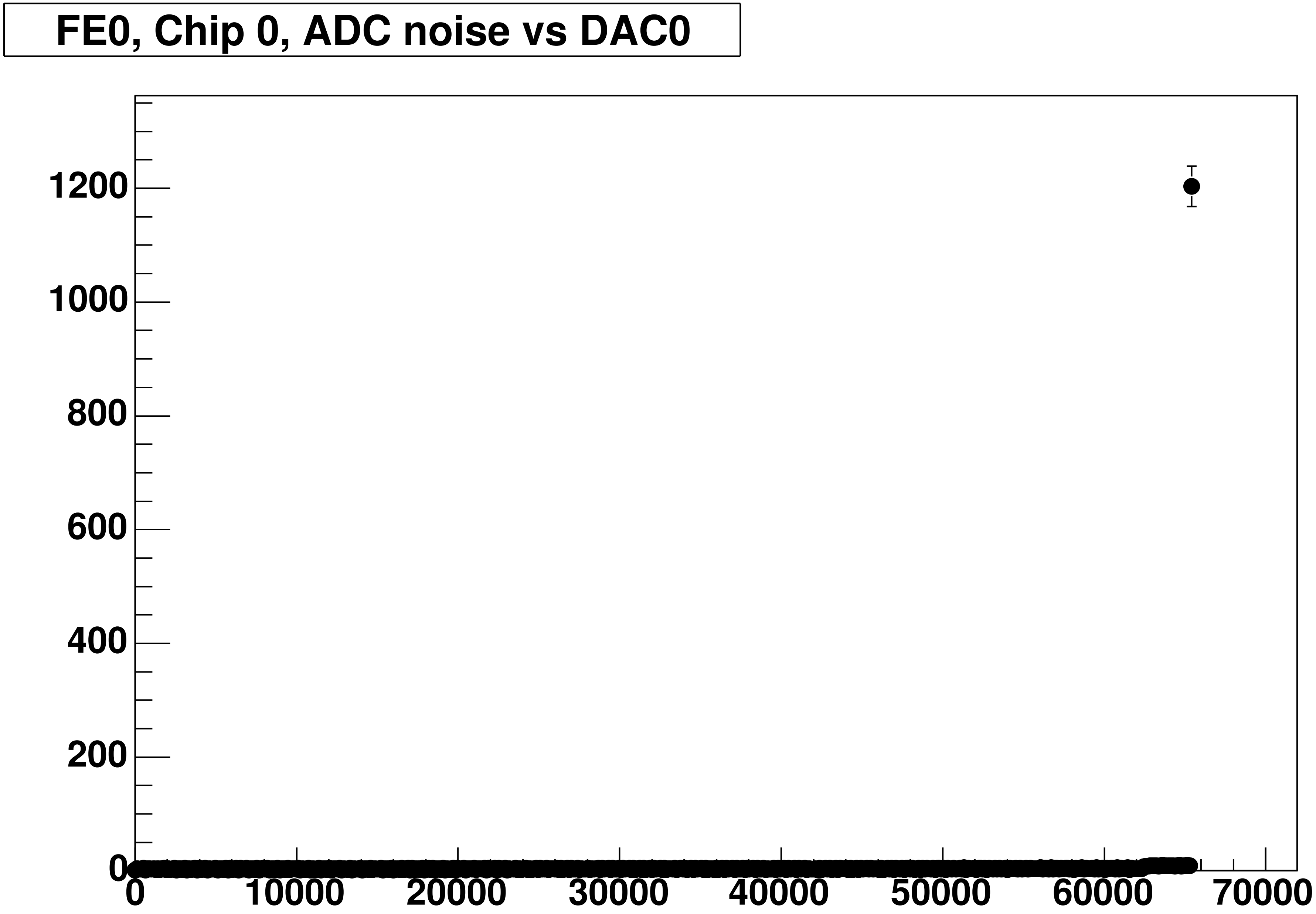
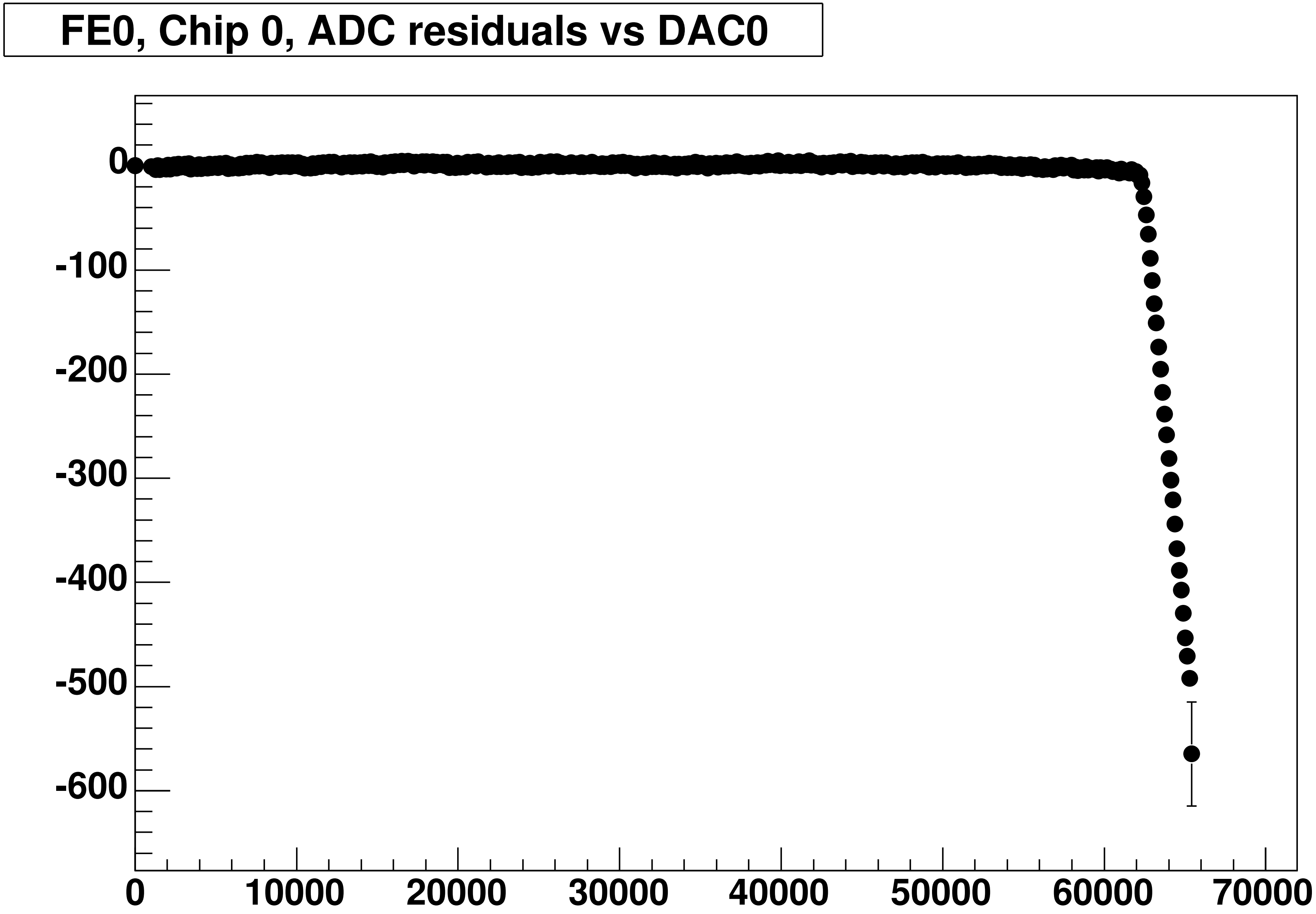
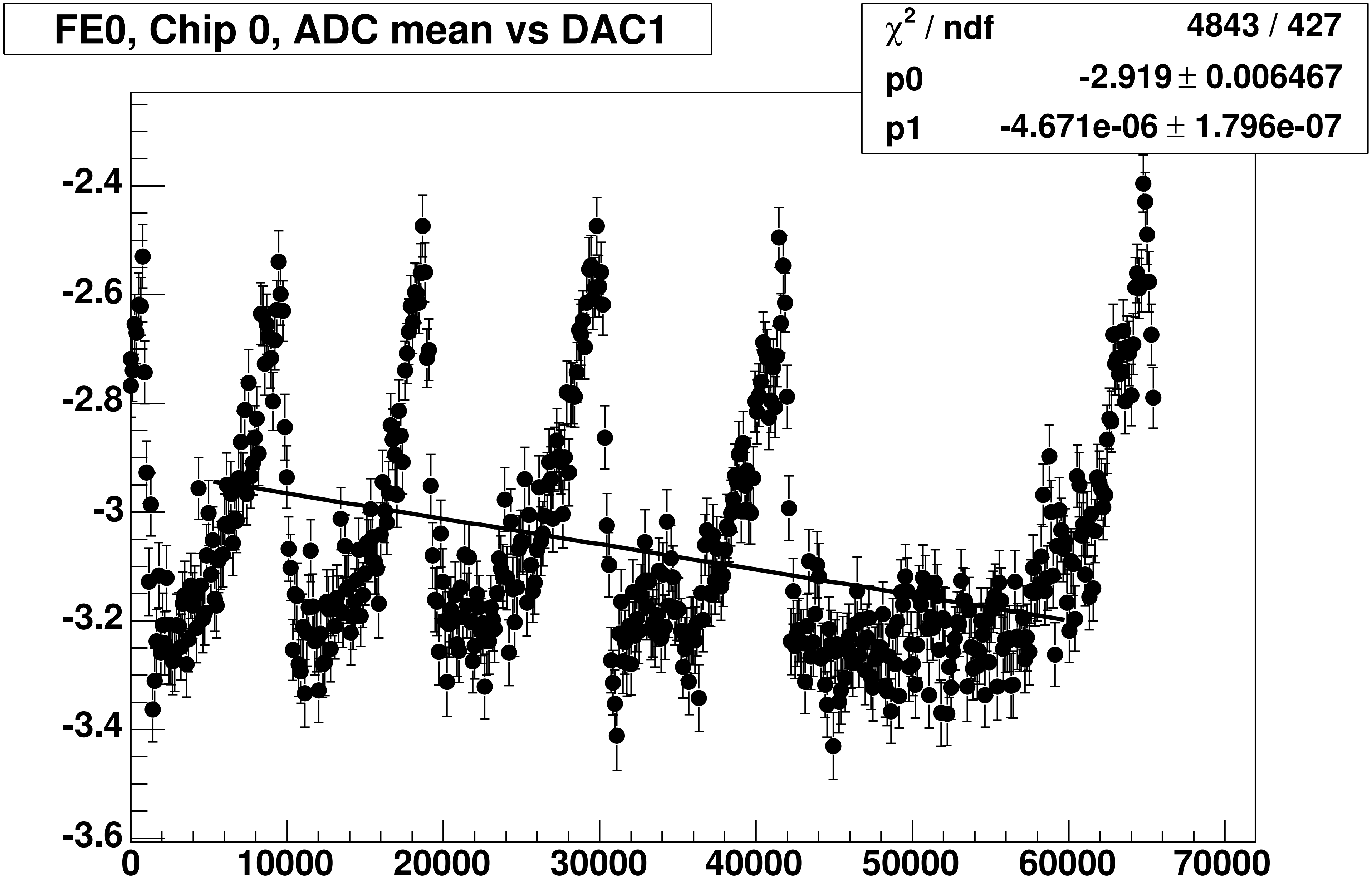
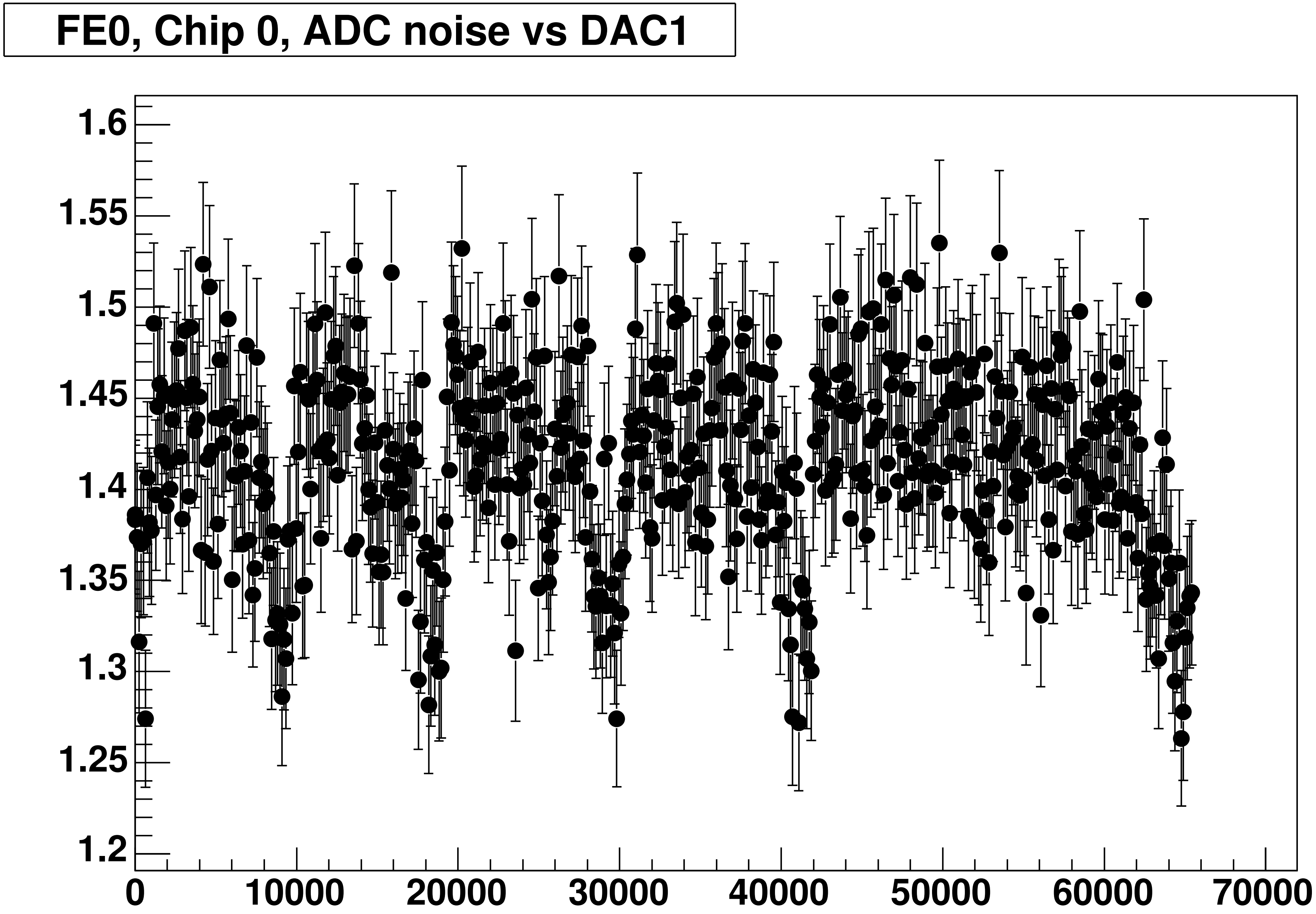

FE0, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 7.751e+04 / 427
p0 -2.351 ± 0.01229
p1 0.4499 ± 3.823e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

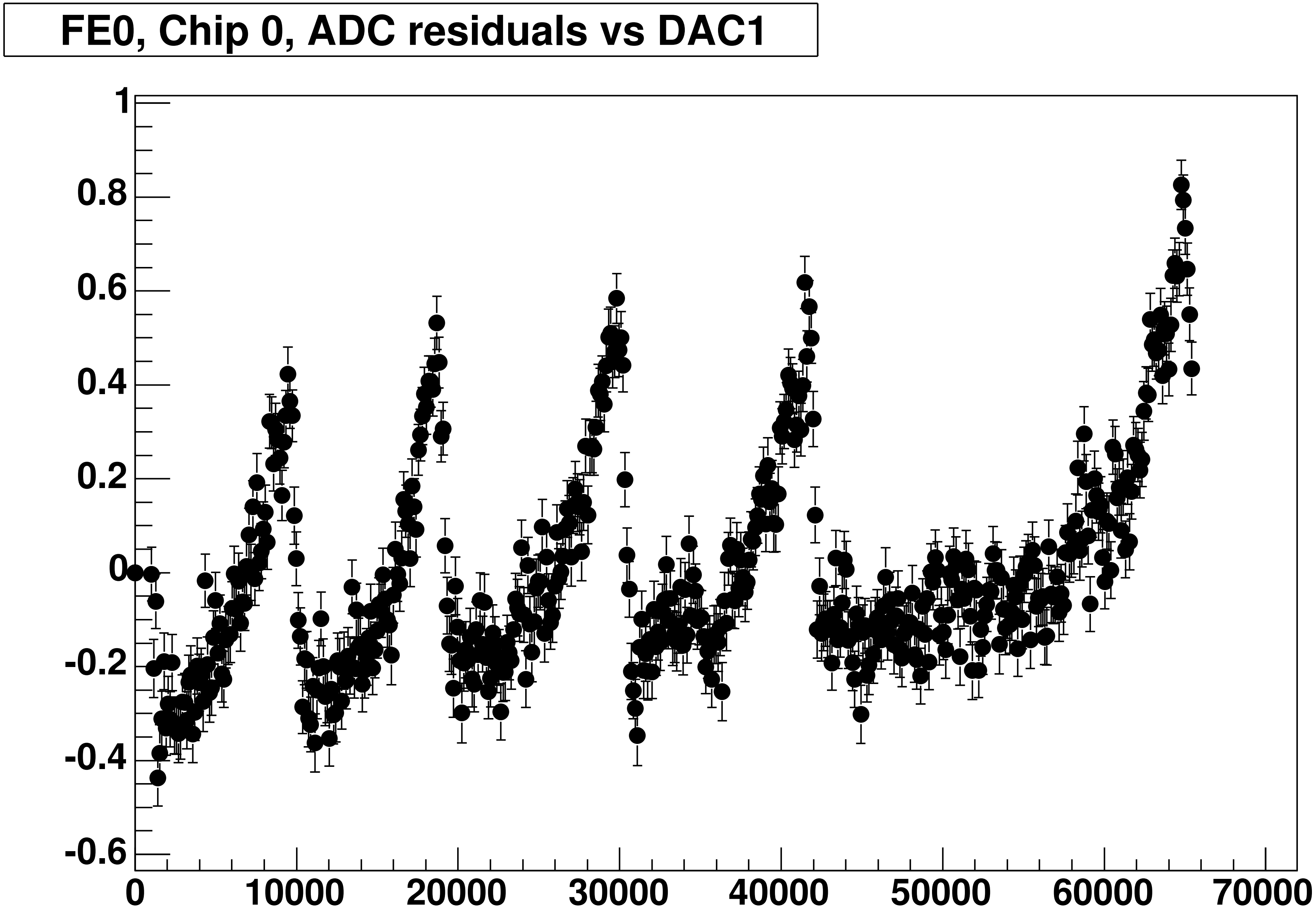


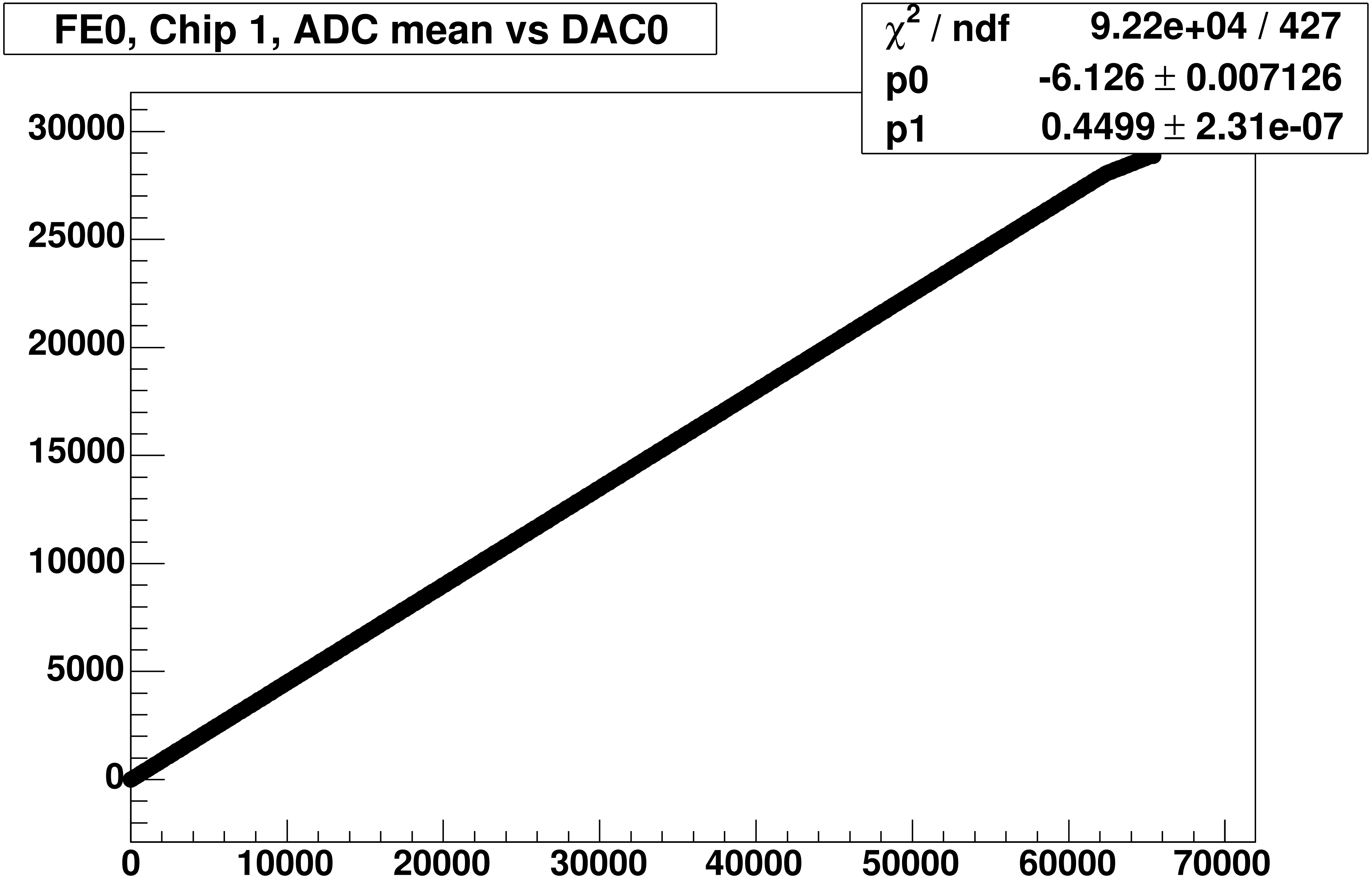
FE0, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000


FE0, Chip 0, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

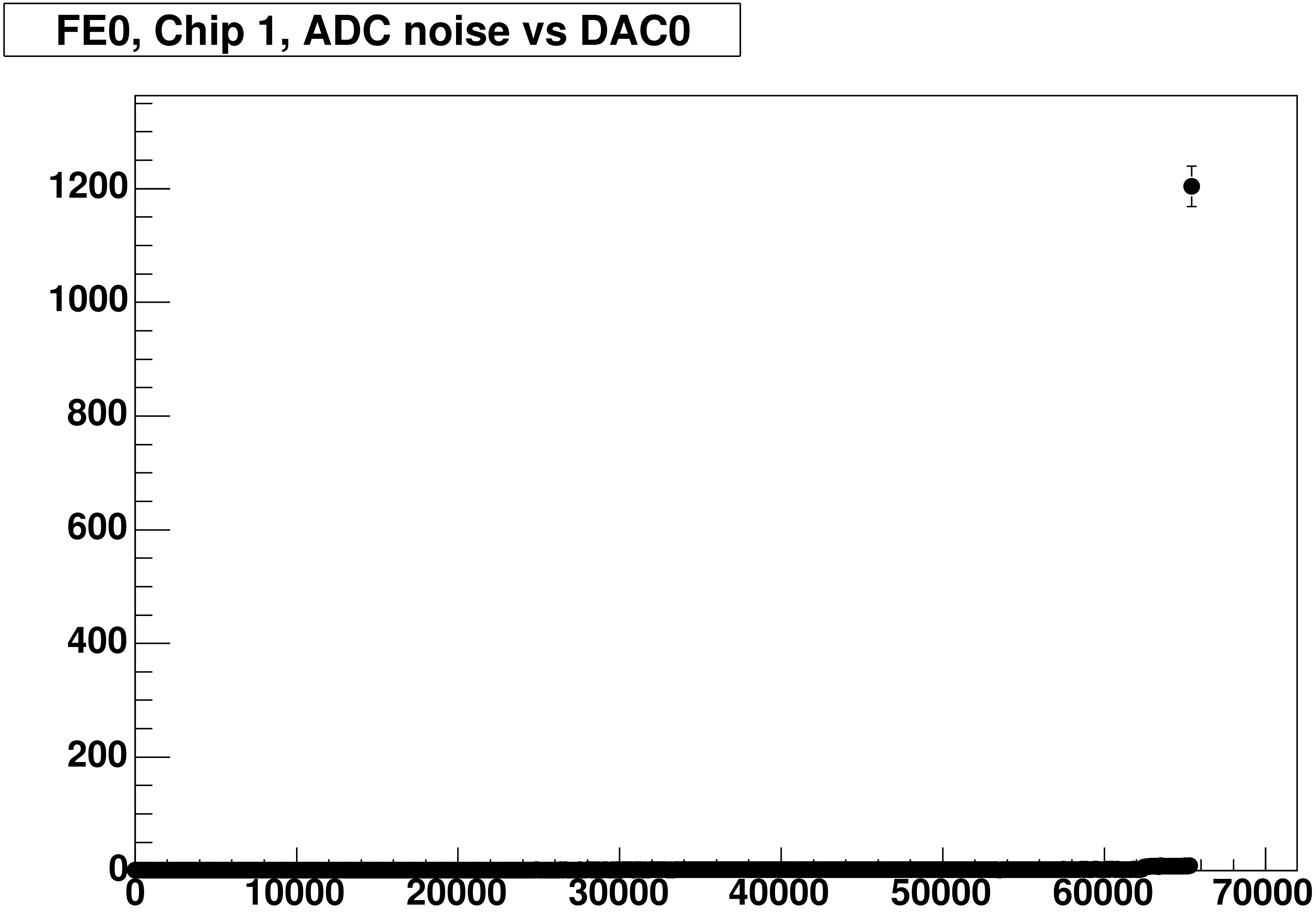

FE0, Chip 0, ADC mean vs DAC1
$\chi^2$ / ndf 4843 / 427
p0 -2.919 ± 0.006467
p1 -4.671e-06 ± 1.796e-07
-2.4
-2.6
-2.8
-3
-3.2
-3.4
-3.6
0
10000
20000
30000
40000
50000
60000
70000

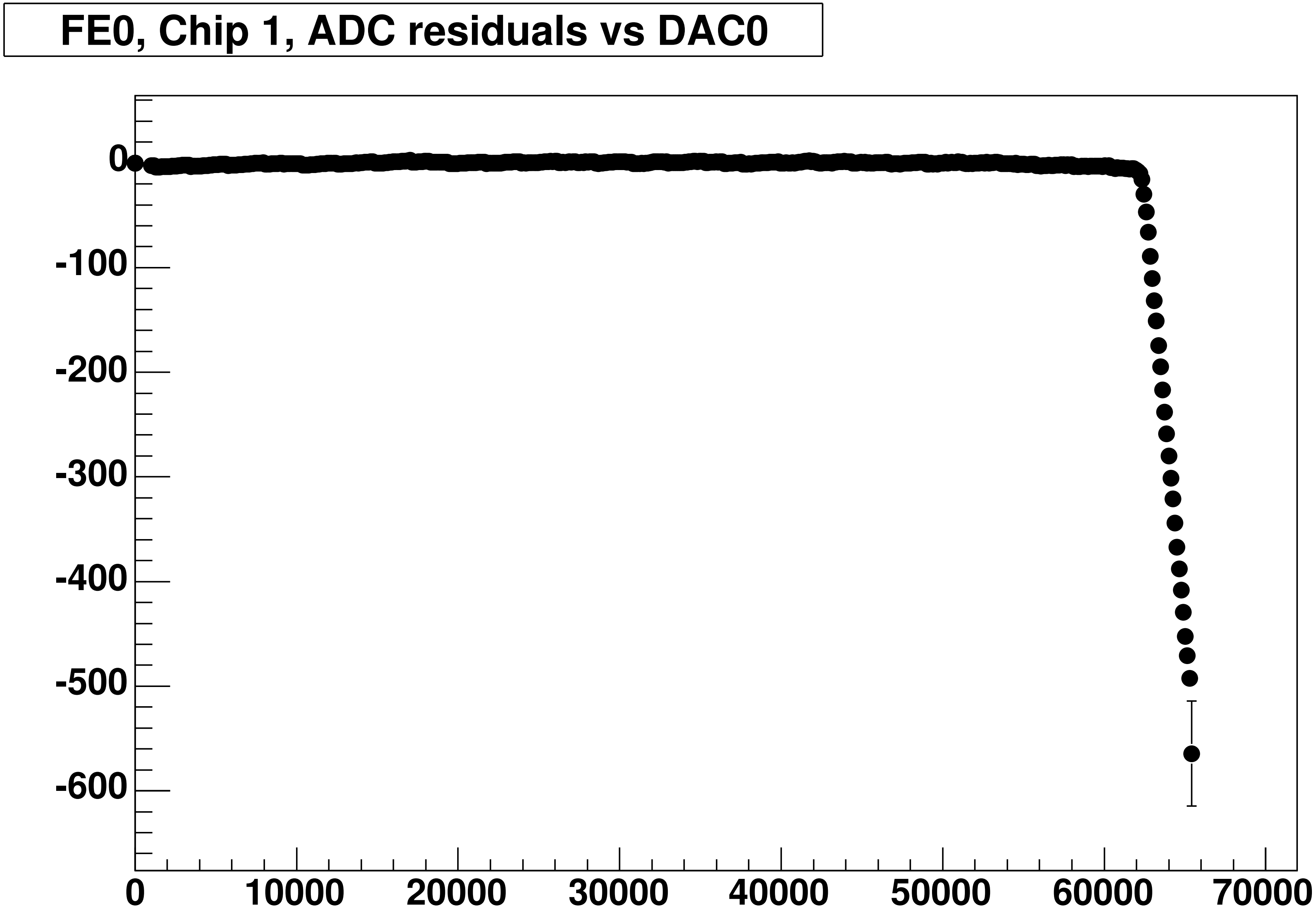

FE0, Chip 0, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
1.25
1.2
0
10000
20000
30000
40000
50000
60000
70000

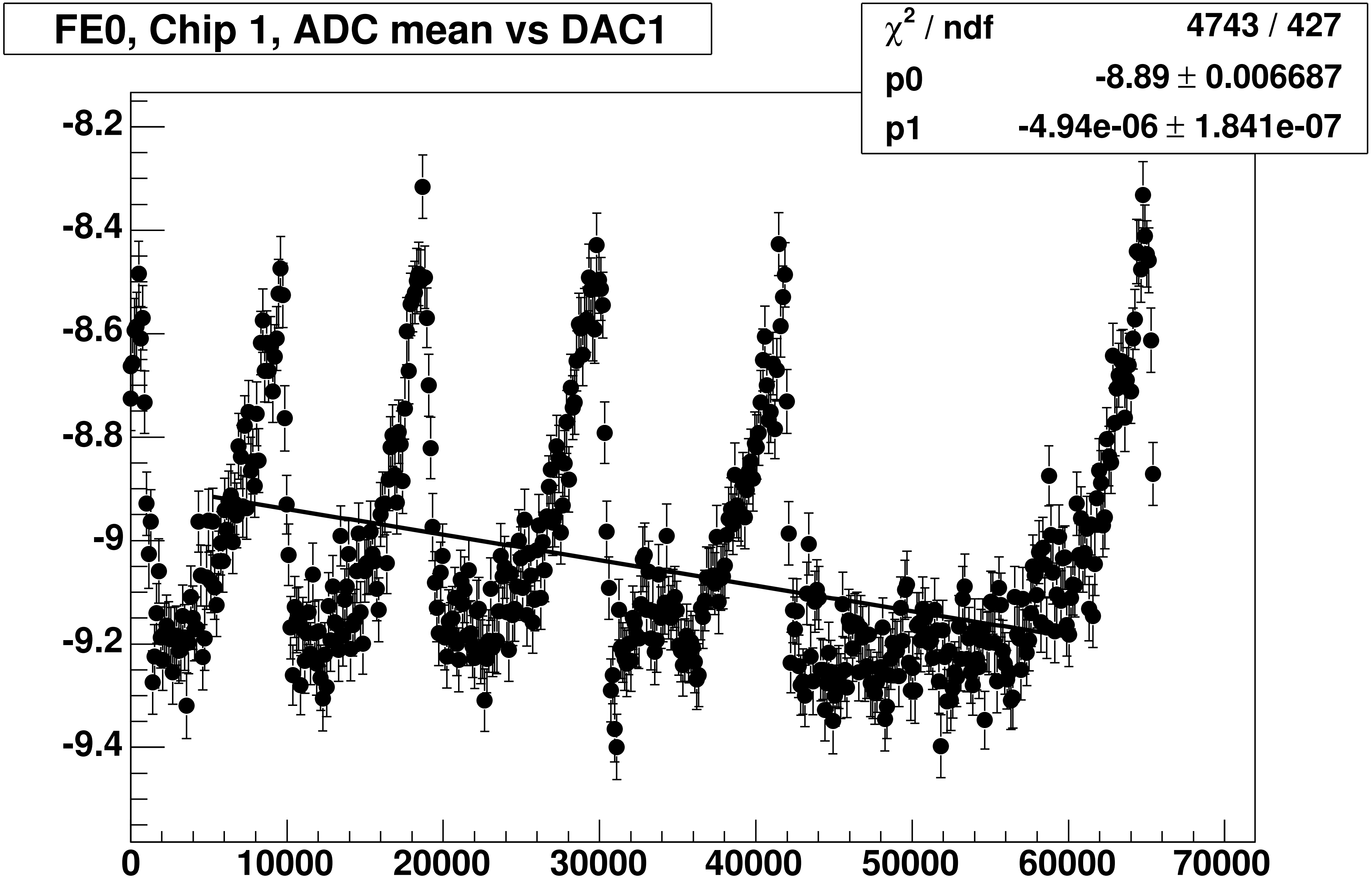

FE0, Chip 0, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000

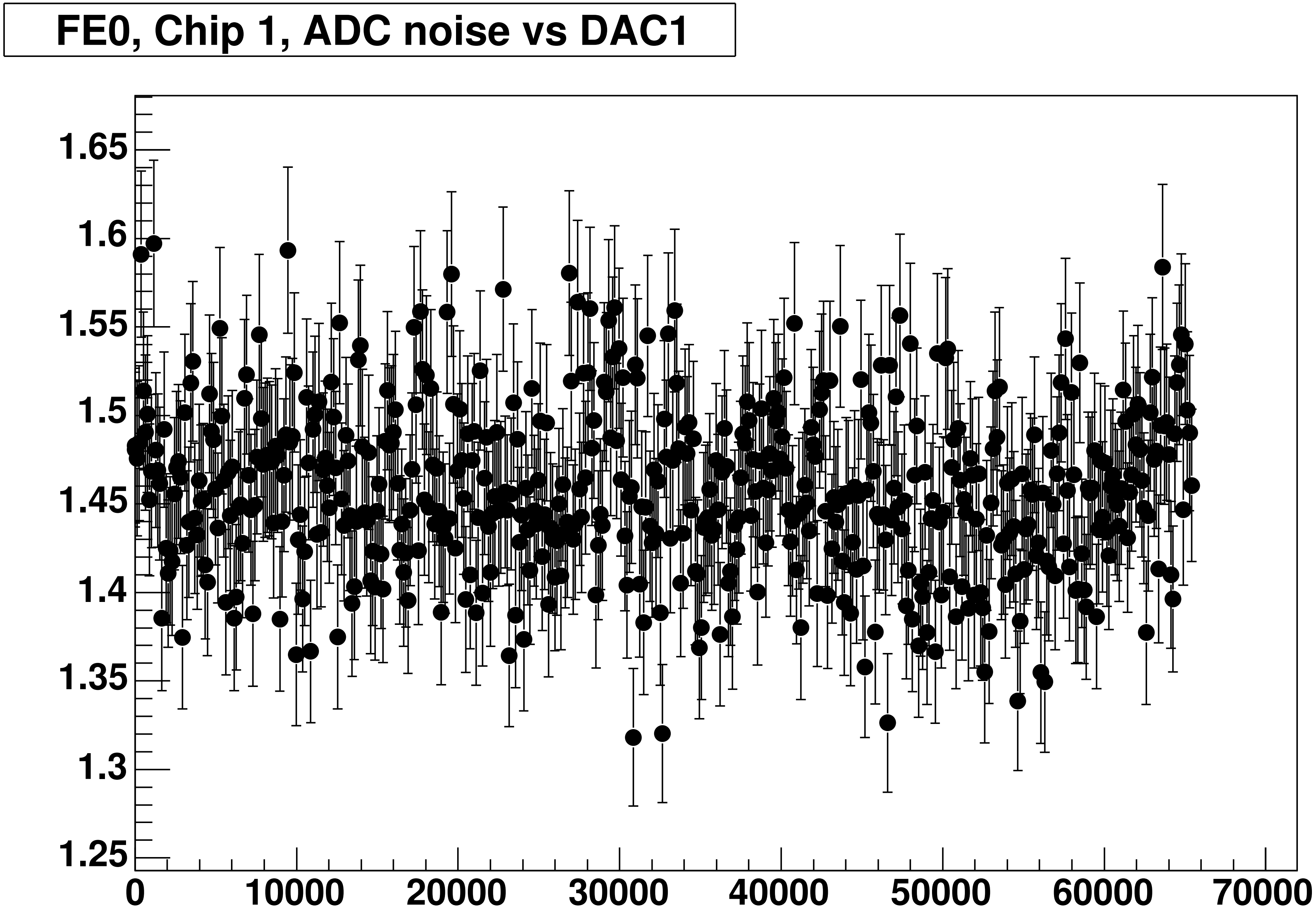


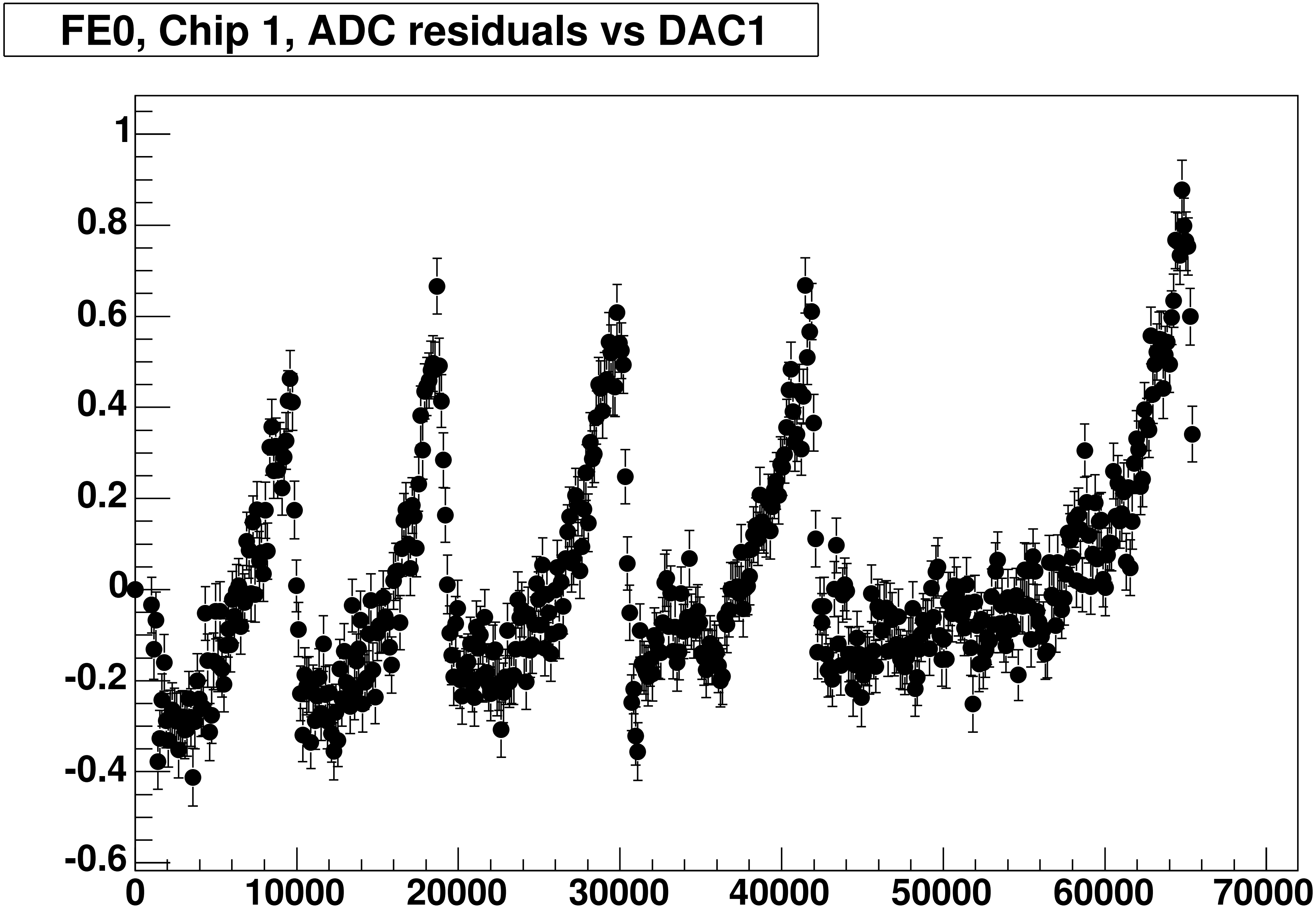
FE0, Chip 1, ADC mean vs DAC0
$\chi^2$ / ndf 9.22e+04 / 427
p0 -6.126 ± 0.007126
p1 0.4499 ± 2.31e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000

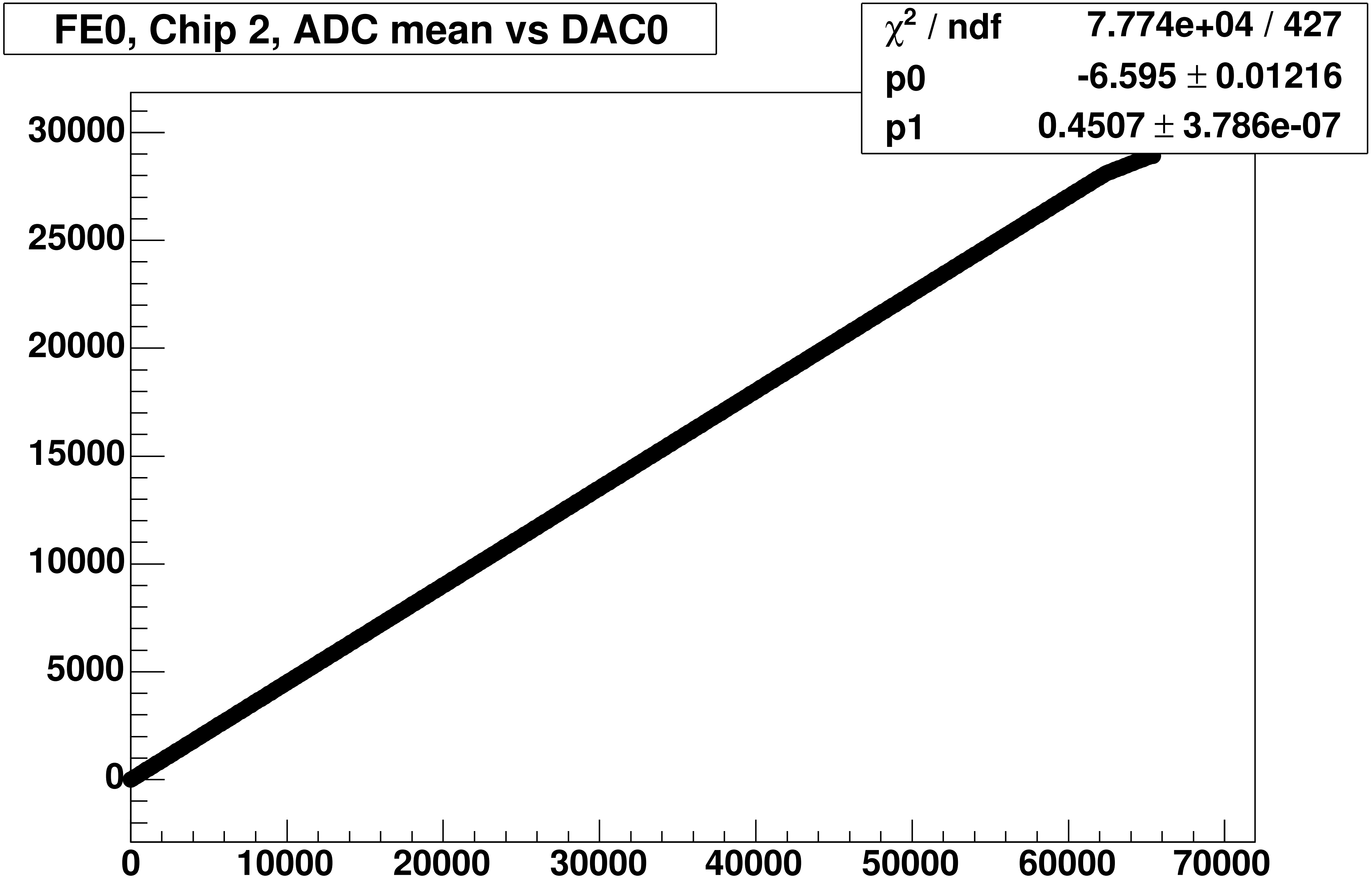

FE0, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000

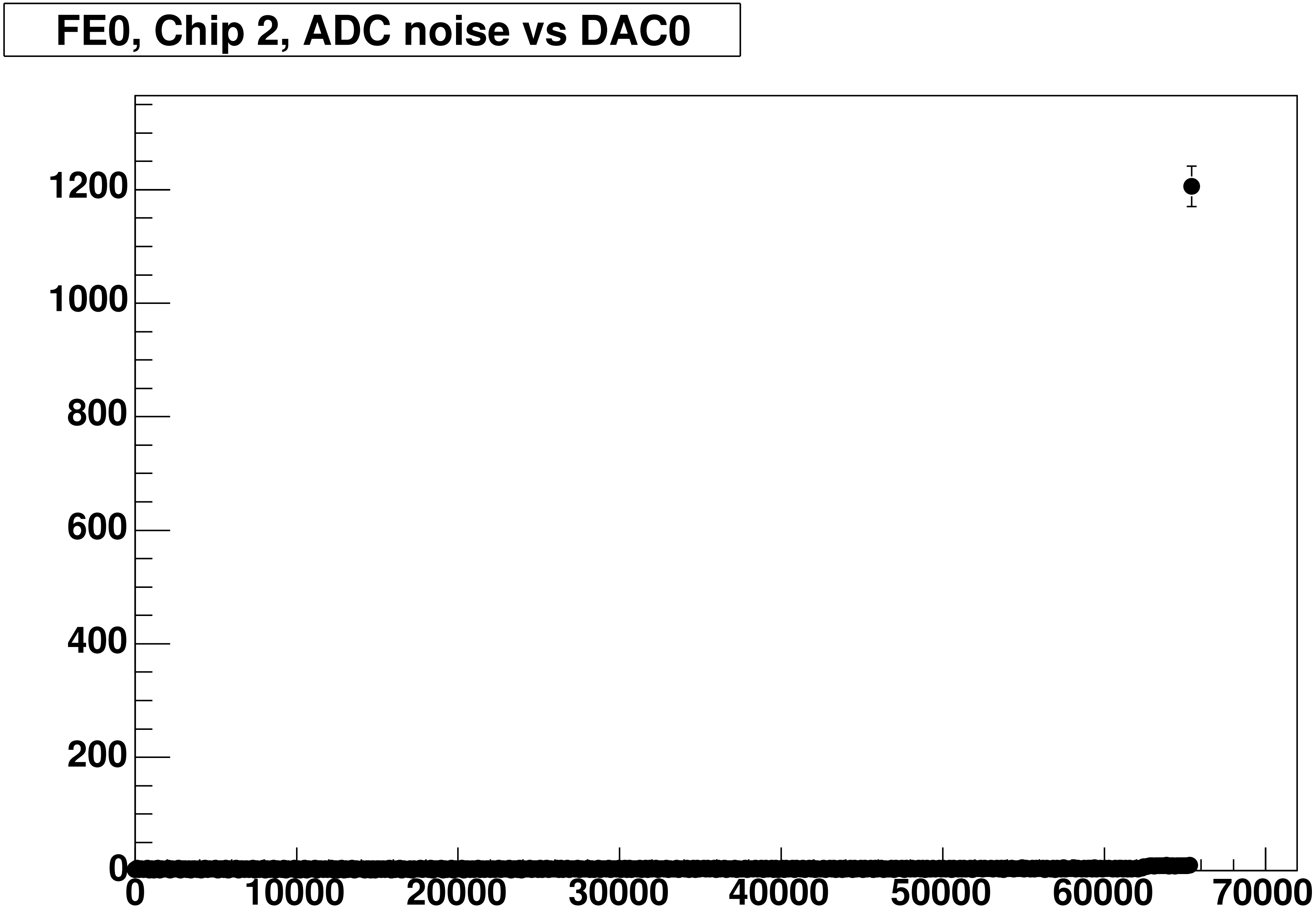

FE0, Chip 1, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

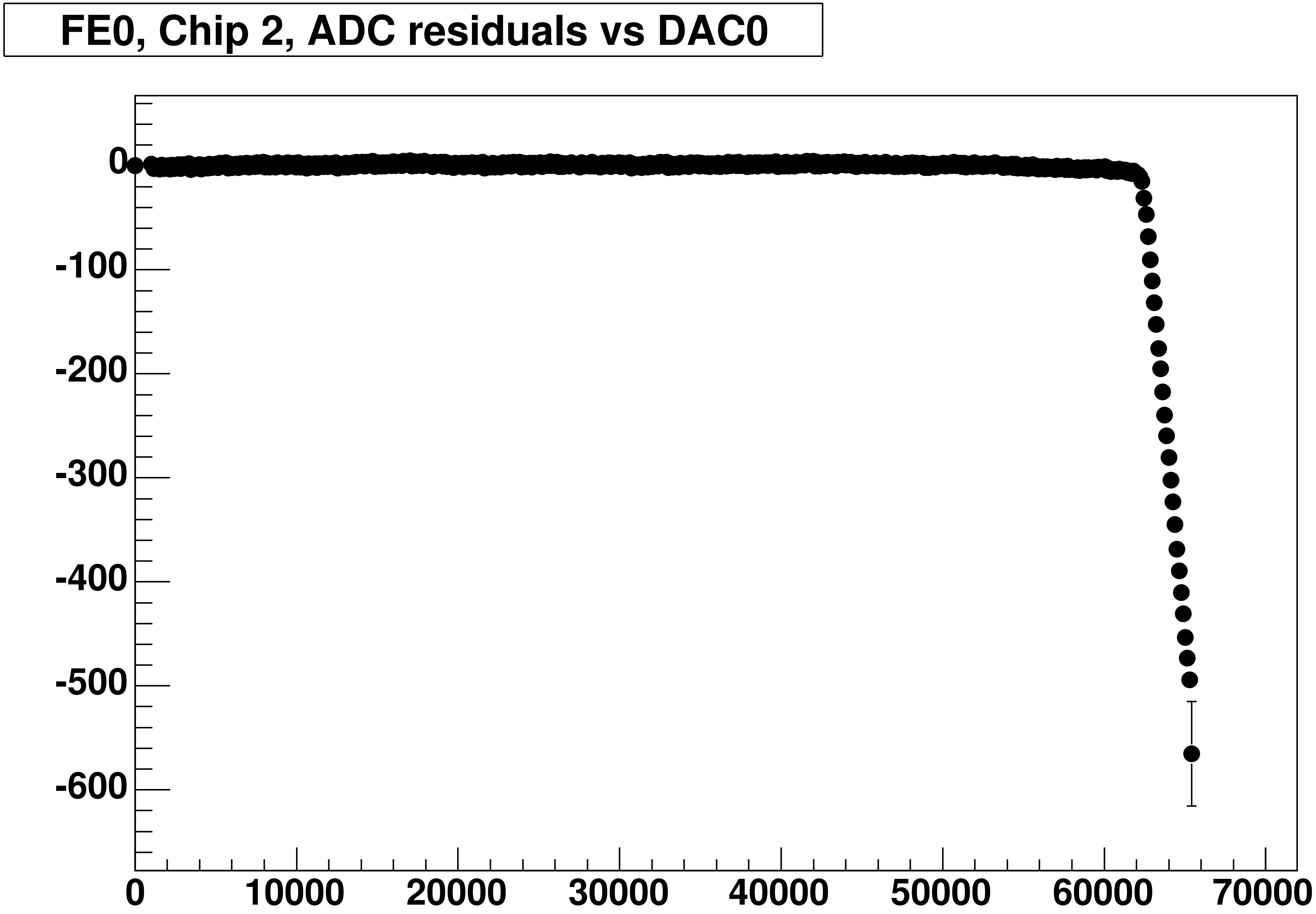

FE0, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 4743 / 427
p0 -8.89 ± 0.006687
p1 -4.94e-06 ± 1.841e-07
-8.2
-8.4
-8.6
-8.8
-9
-9.2
-9.4
0
10000
20000
30000
40000
50000
60000
70000

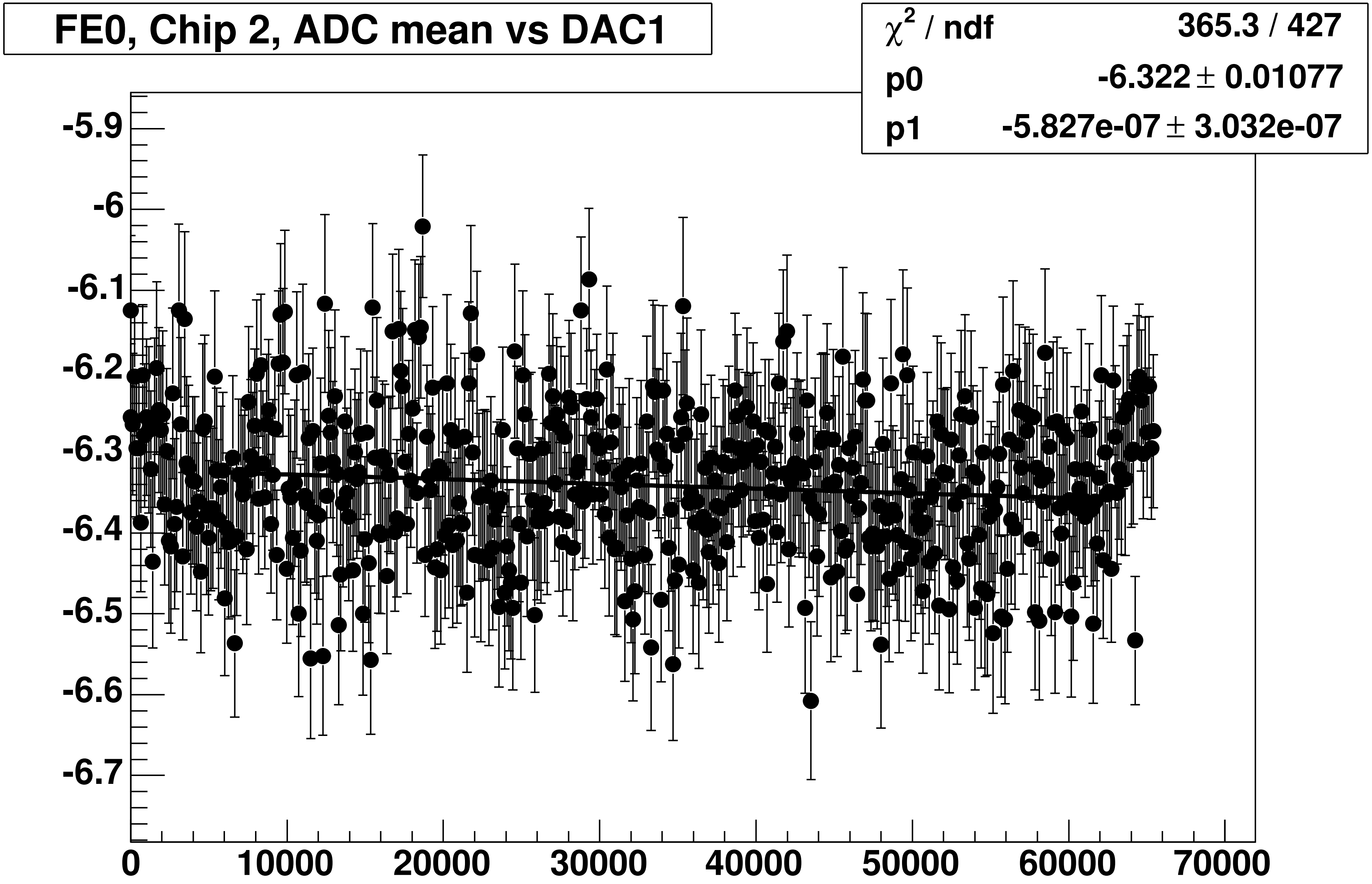

FE0, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000
70000


FE0, Chip 1, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000

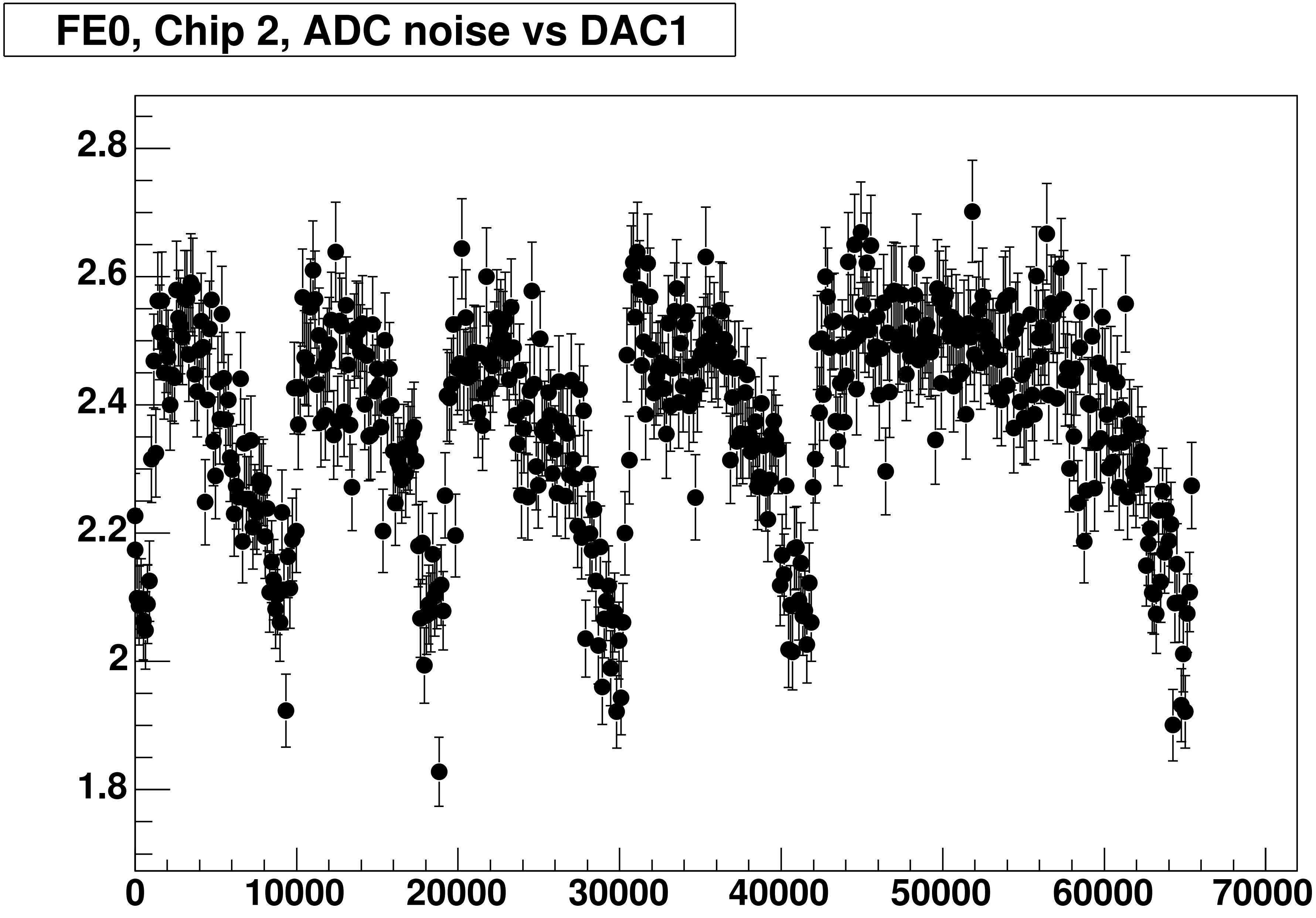

FE0, Chip 2, ADC mean vs DAC0
χ2 / ndf 7.774e+04 / 427
p0 -6.595 ± 0.01216
p1 0.4507 ± 3.786e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

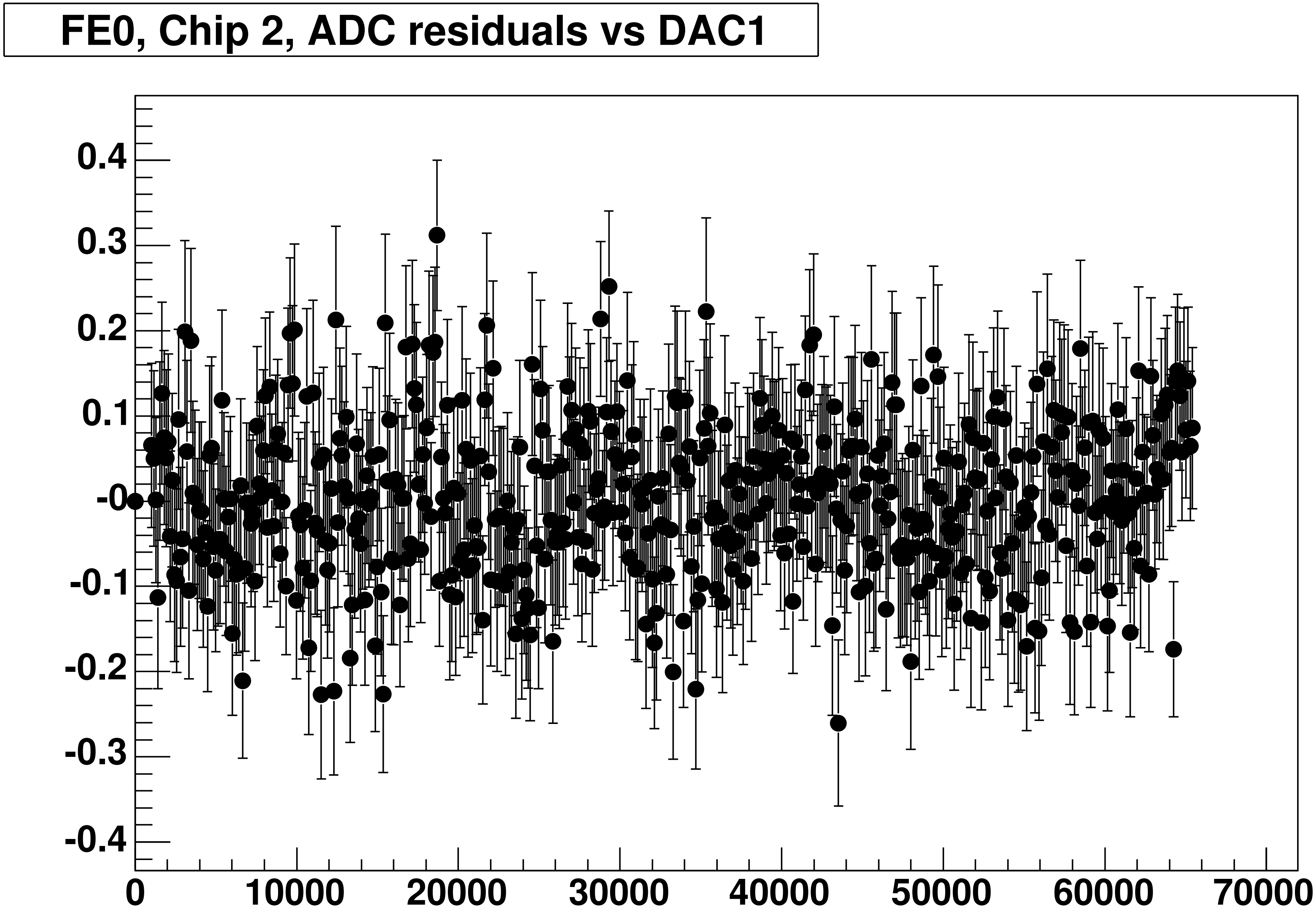

FE0, Chip 2, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000
70000


FE0, Chip 2, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

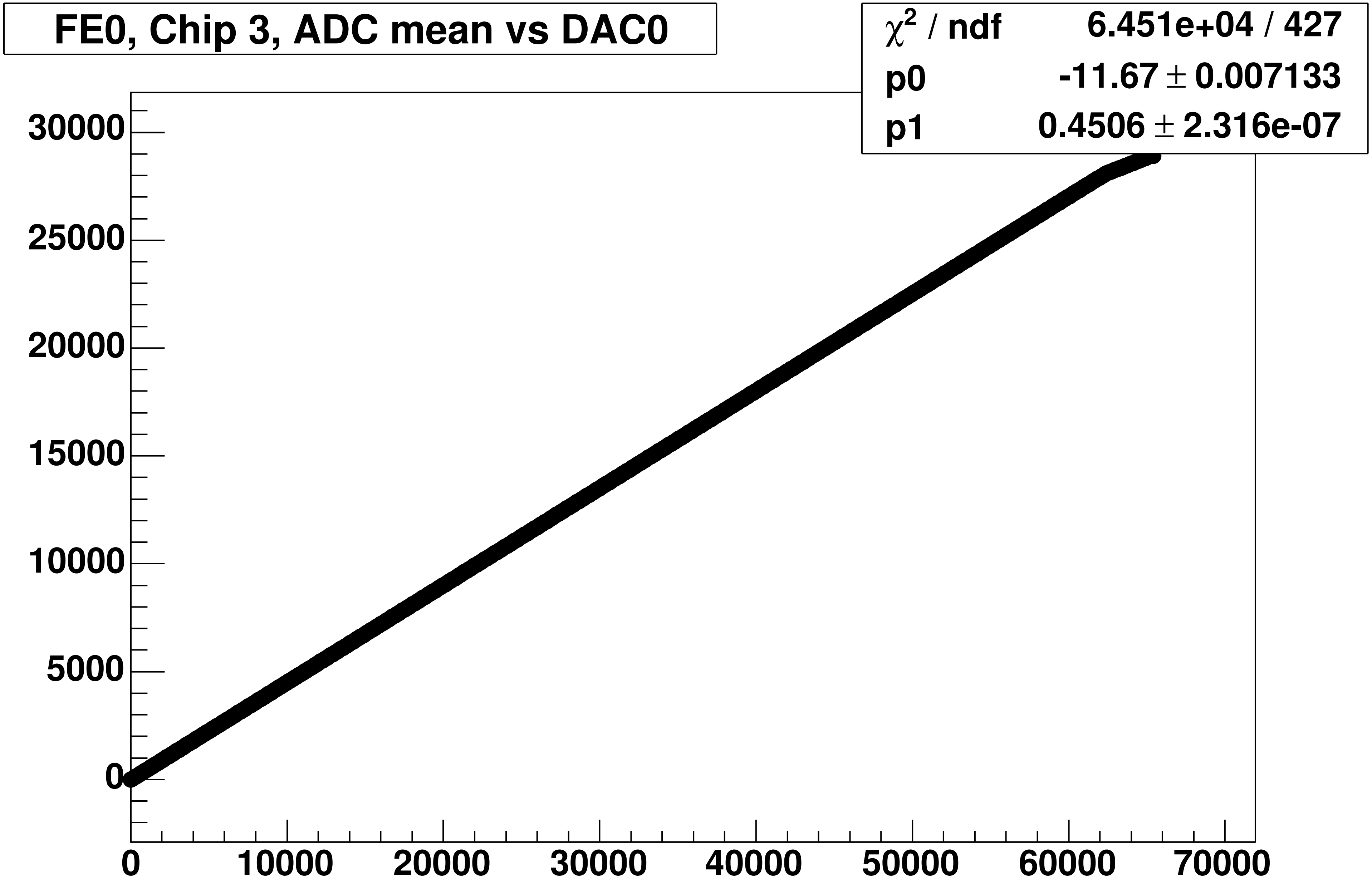


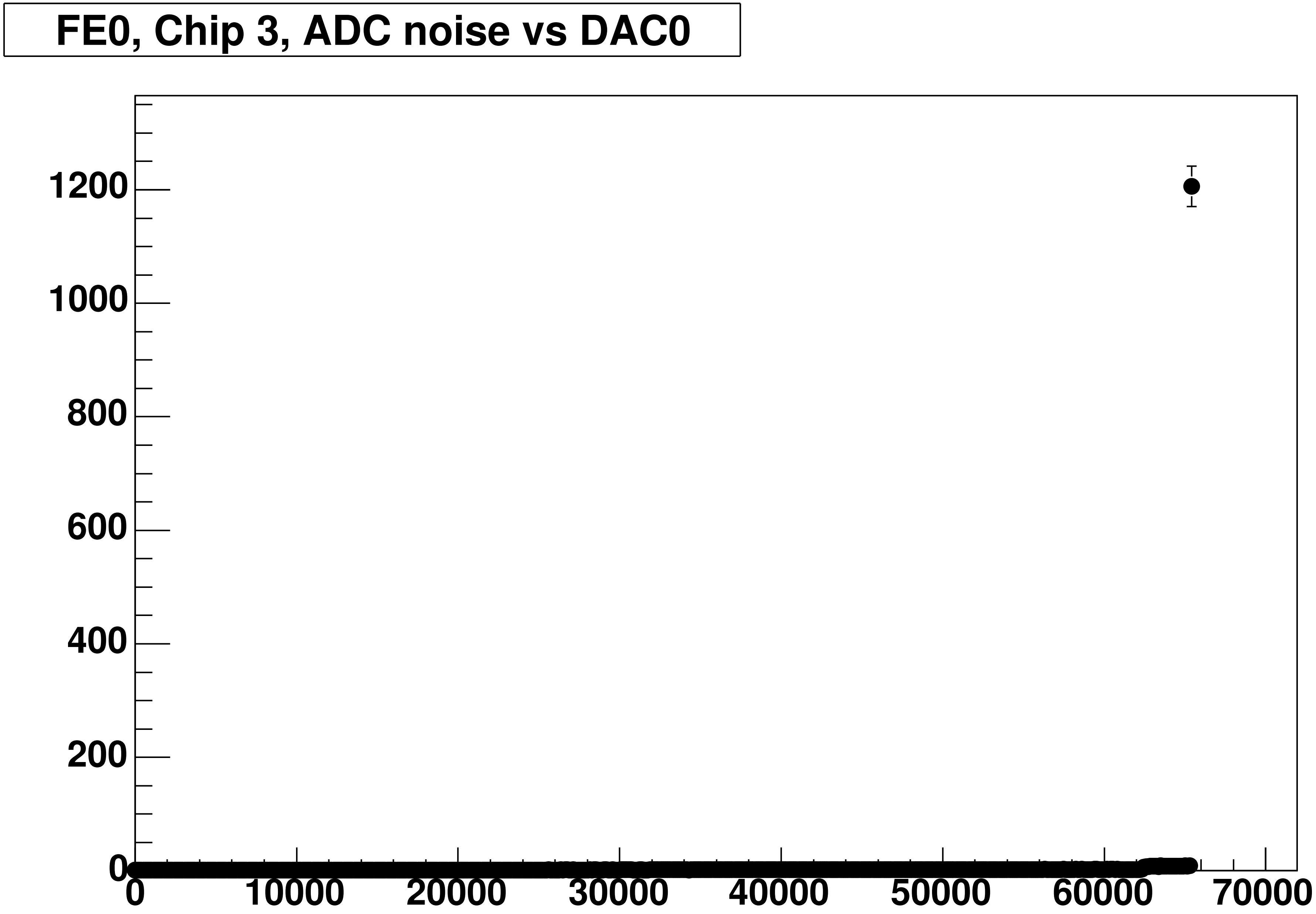
FE0, Chip 2, ADC mean vs DAC1
$\chi^2$ / ndf 365.3 / 427
p0 -6.322 ± 0.01077
p1 -5.827e-07 ± 3.032e-07
-5.9
-6
-6.1
-6.2
-6.3
-6.4
-6.5
-6.6
-6.7
0
10000
20000
30000
40000
50000
60000
70000

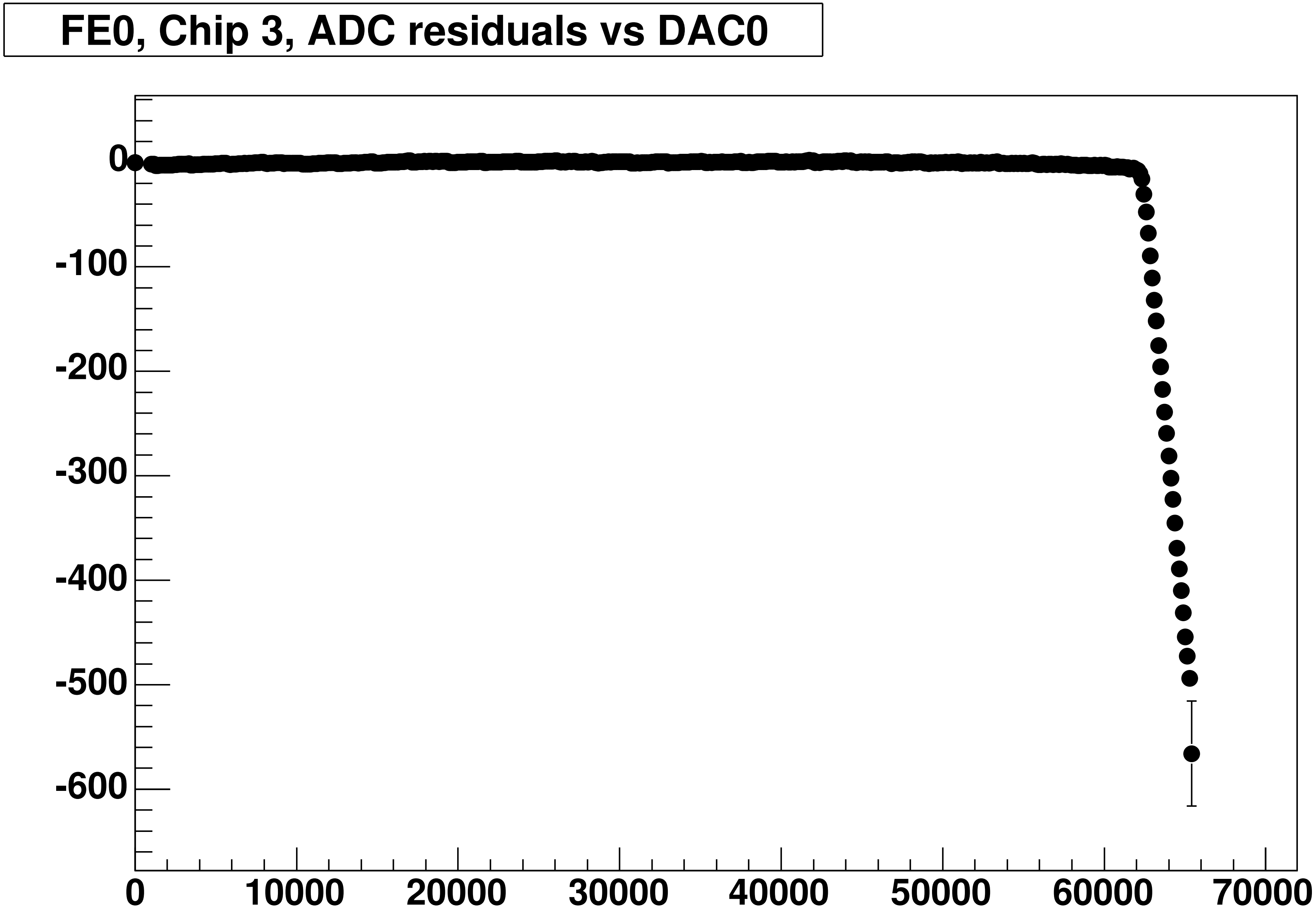

FE0, Chip 2, ADC noise vs DAC1
2.8
2.6
2.4
2.2
2
1.8
0
10000
20000
30000
40000
50000
60000
70000

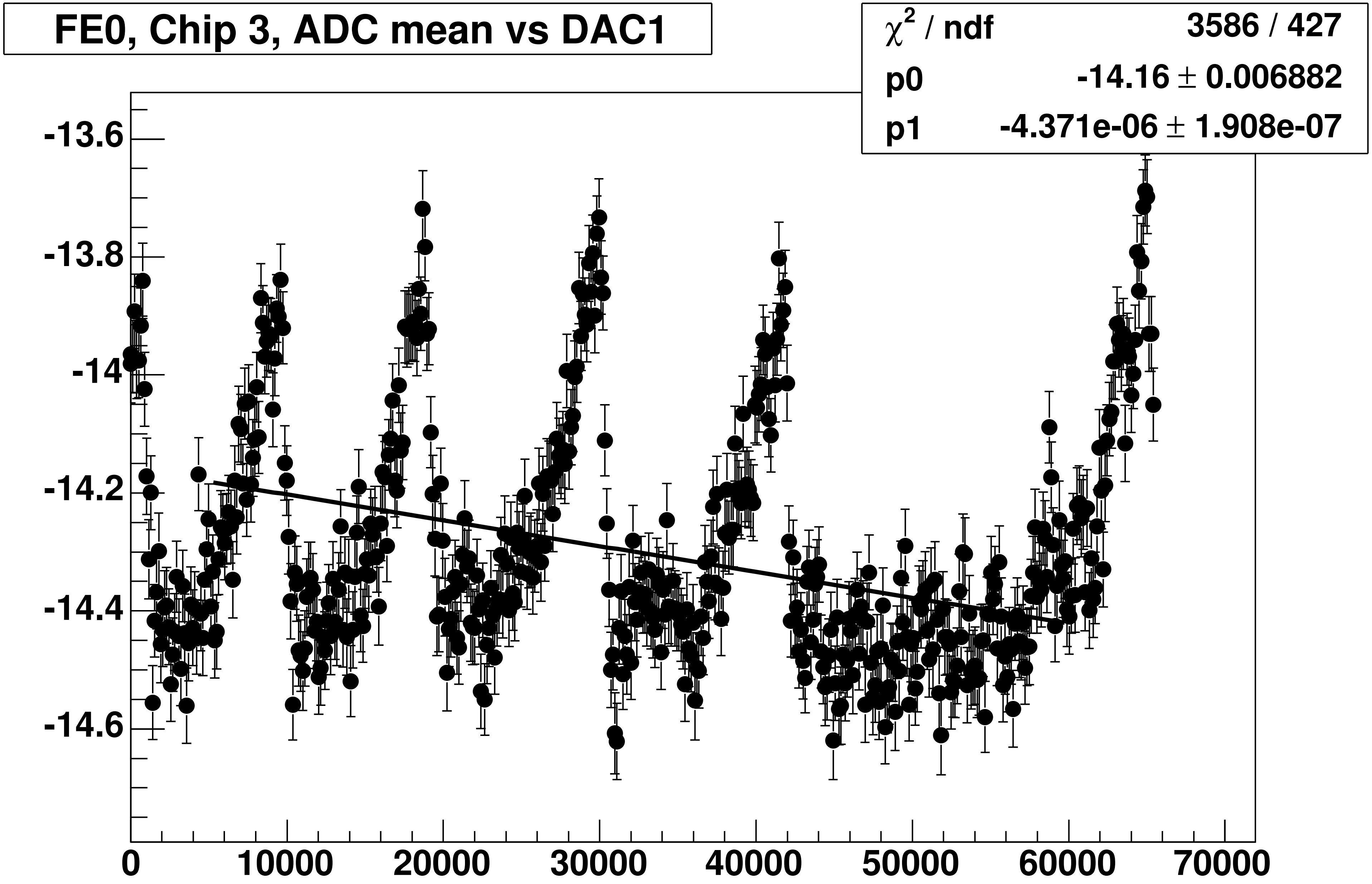


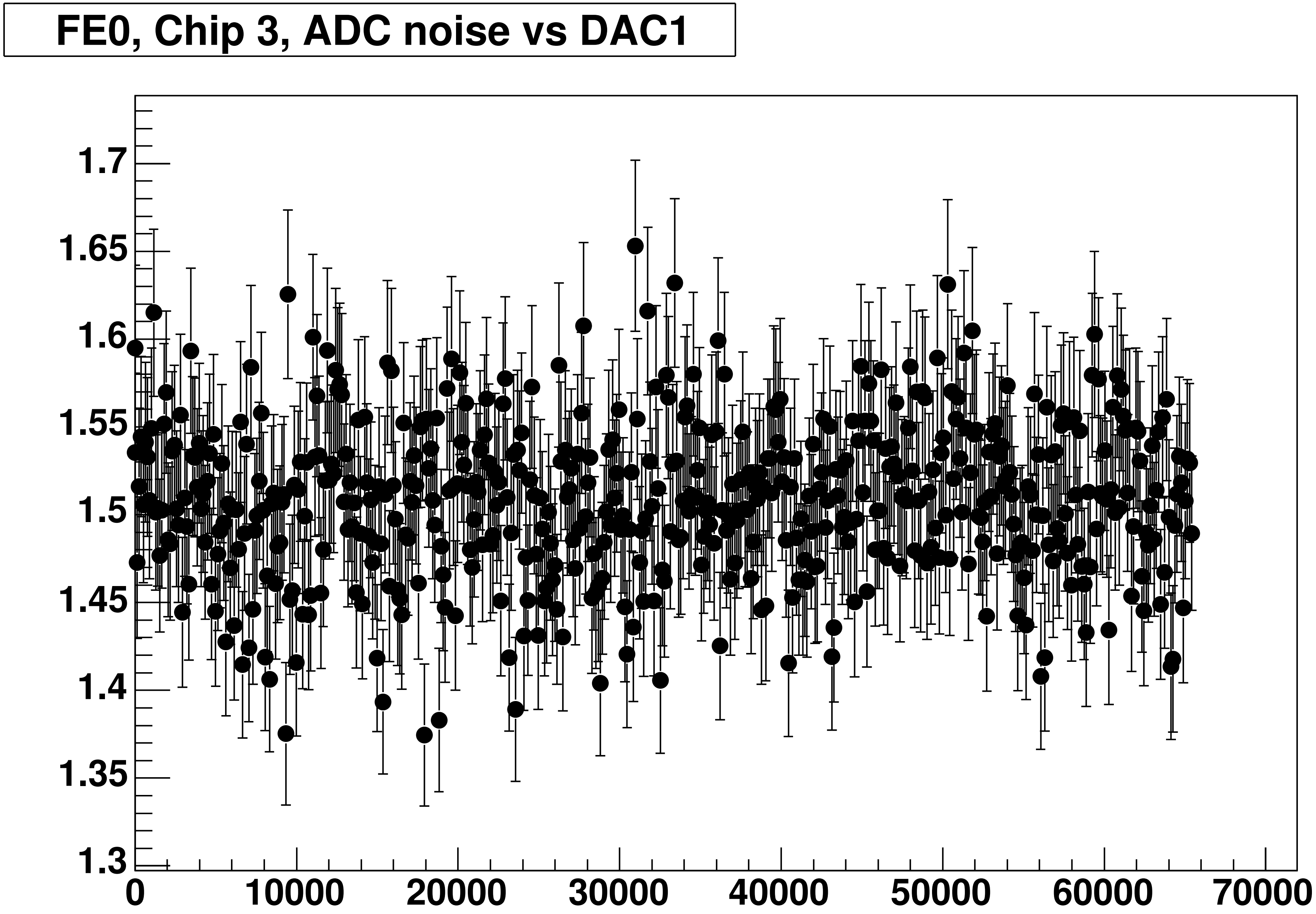
FE0, Chip 2, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000
70000


FE0, Chip 3, ADC mean vs DAC0
χ2 / ndf 6.451e+04 / 427
p0 -11.67 ± 0.007133
p1 0.4506 ± 2.316e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

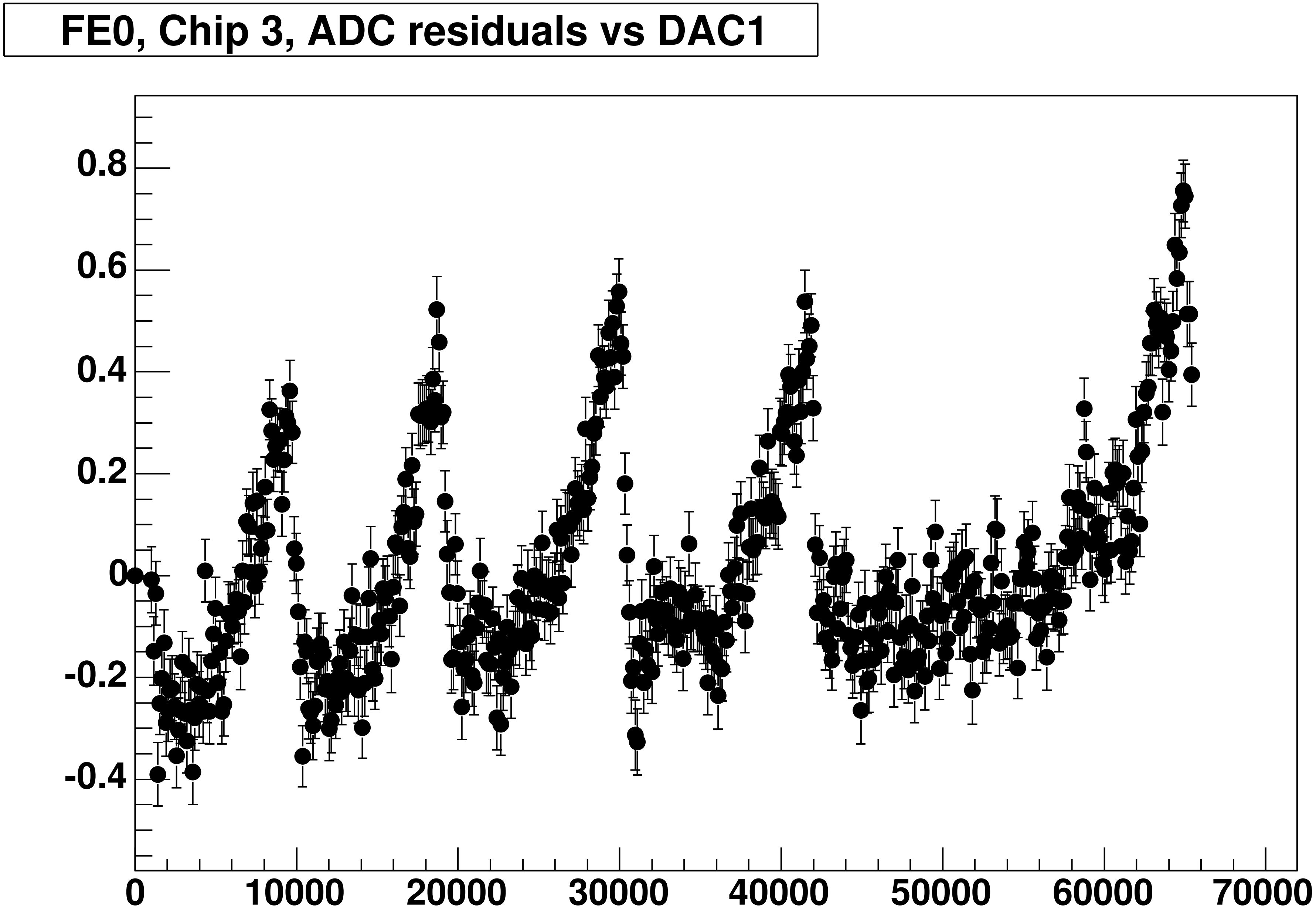

FE0, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000

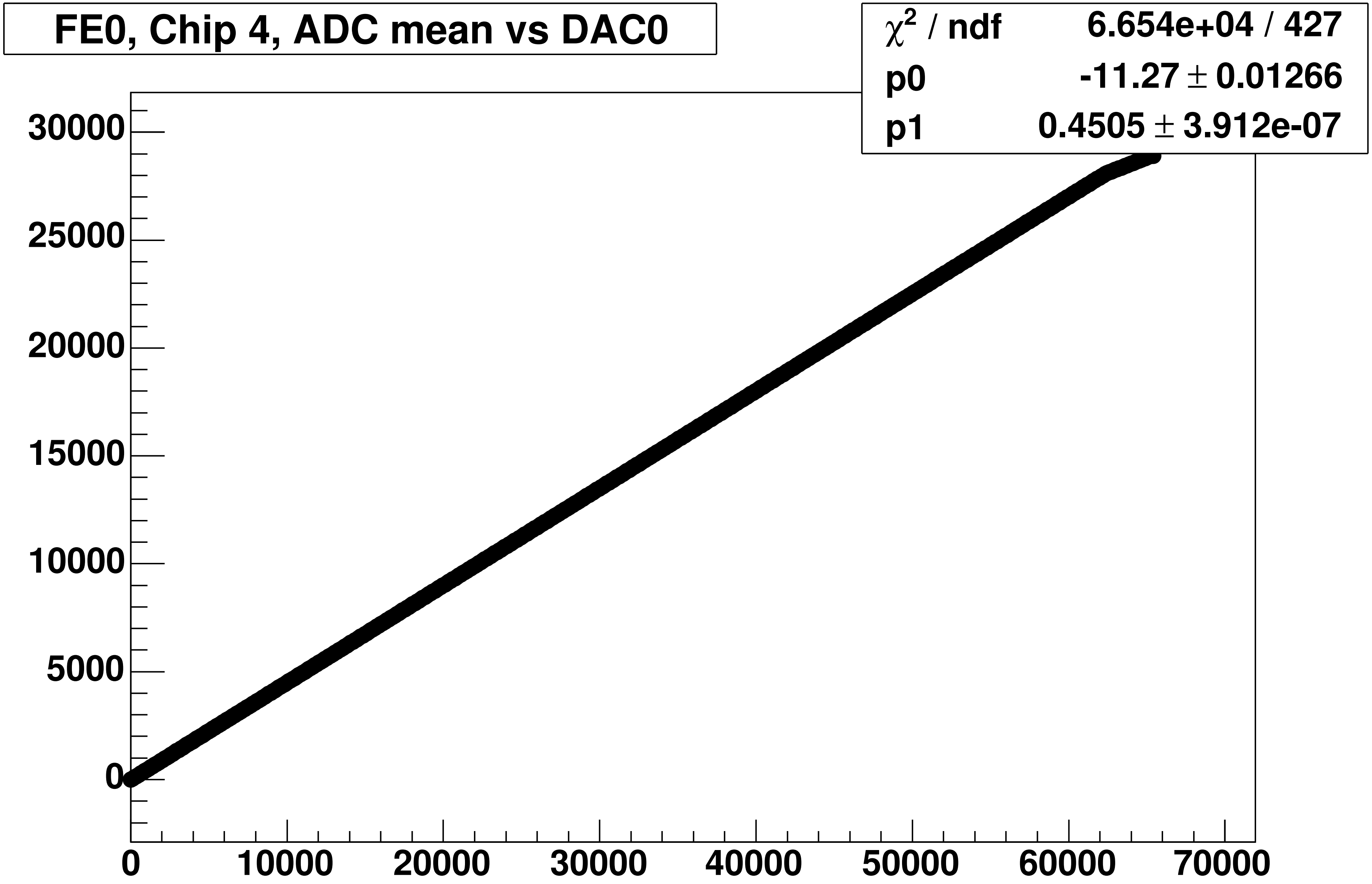

FE0, Chip 3, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000


FE0, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 3586 / 427
p0 -14.16 ± 0.006882
p1 -4.371e-06 ± 1.908e-07
-13.6
-13.8
-14
-14.2
-14.4
-14.6
0
10000
20000
30000
40000
50000
60000
70000

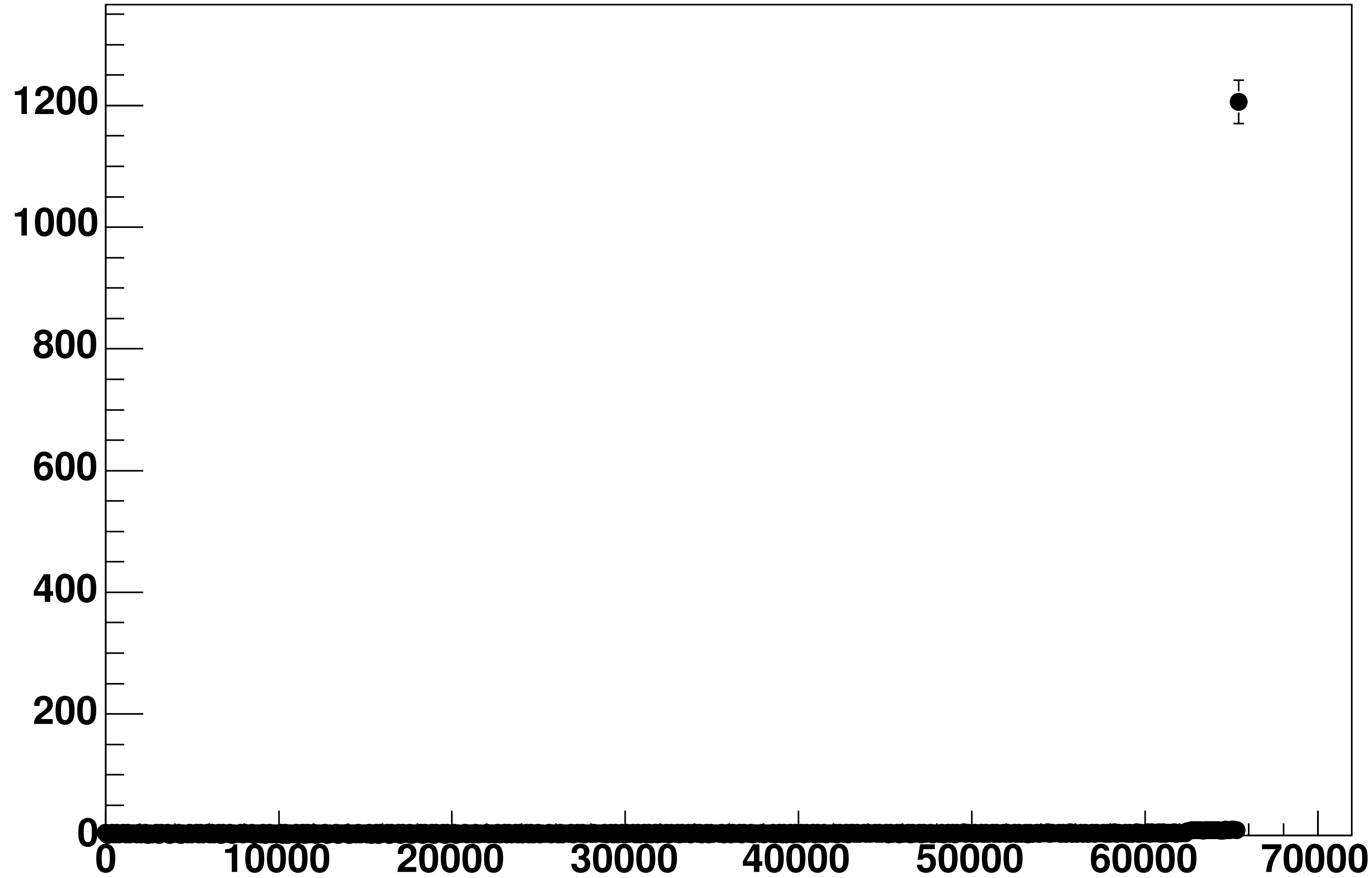


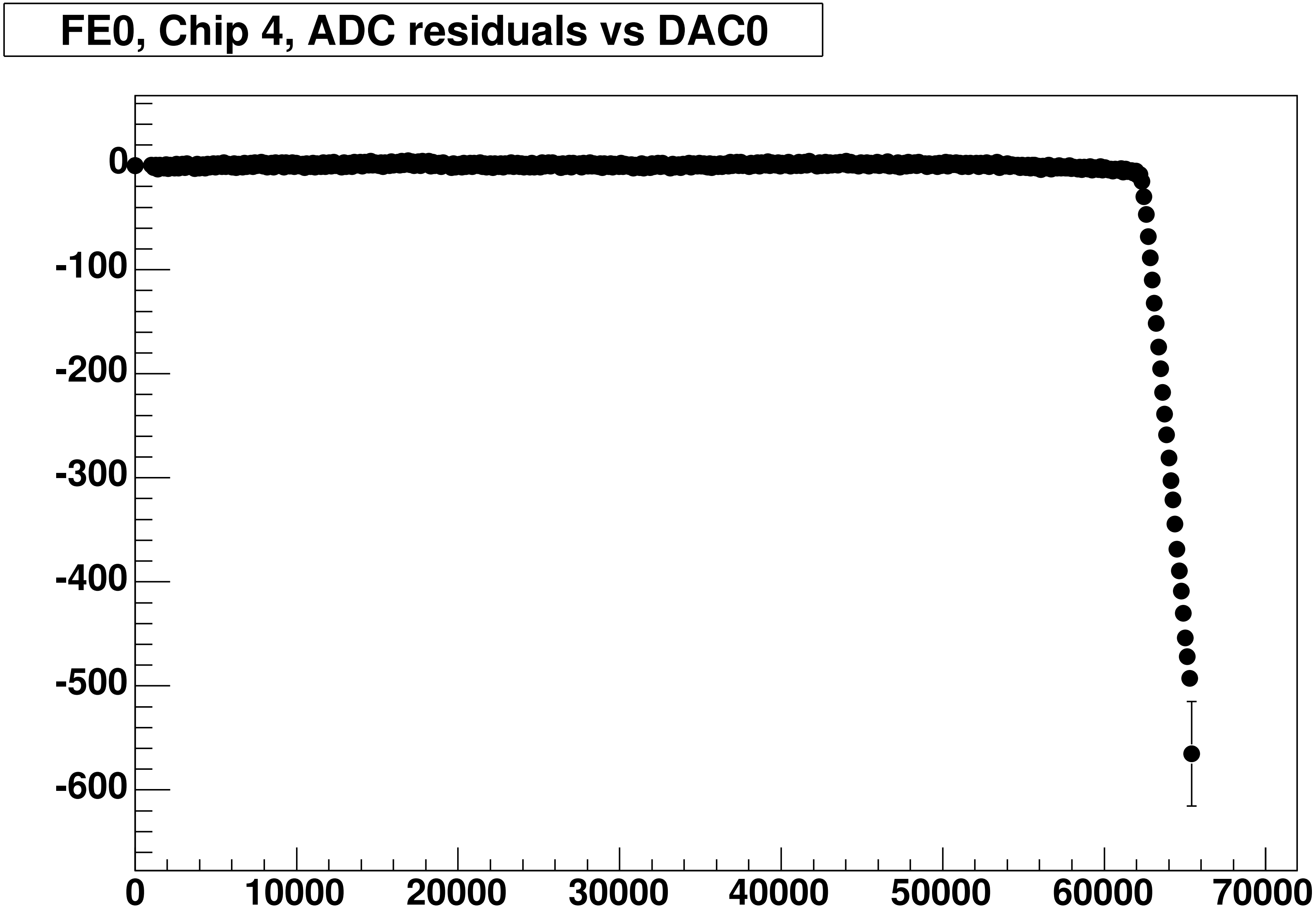
FE0, Chip 3, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000
70000

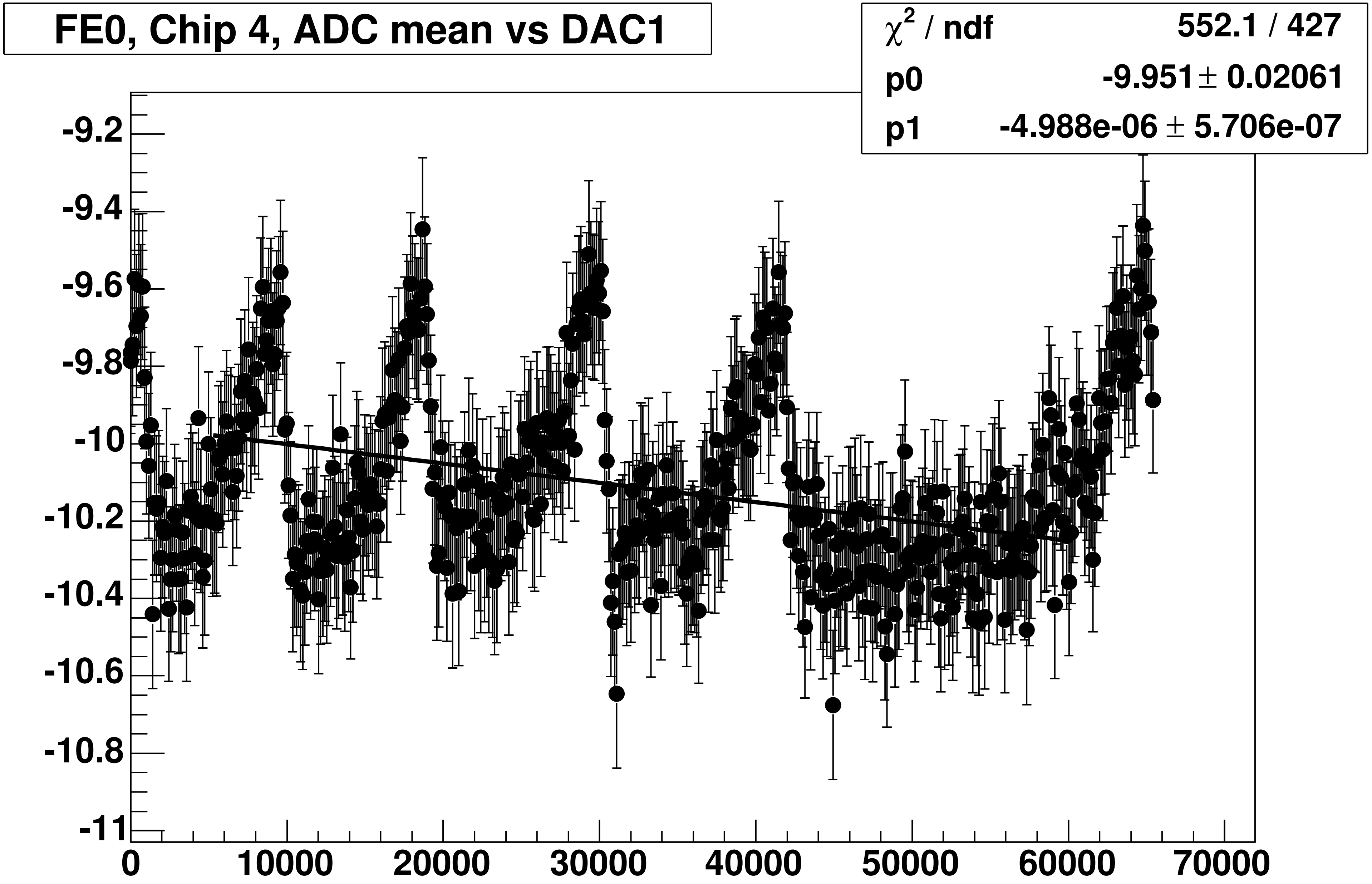

FE0, Chip 3, ADC residuals vs DAC1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000
70000


FE0, Chip 4, ADC mean vs DAC0
$\chi^2$ / ndf 6.654e+04 / 427
p0 -11.27 ± 0.01266
p1 0.4505 ± 3.912e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

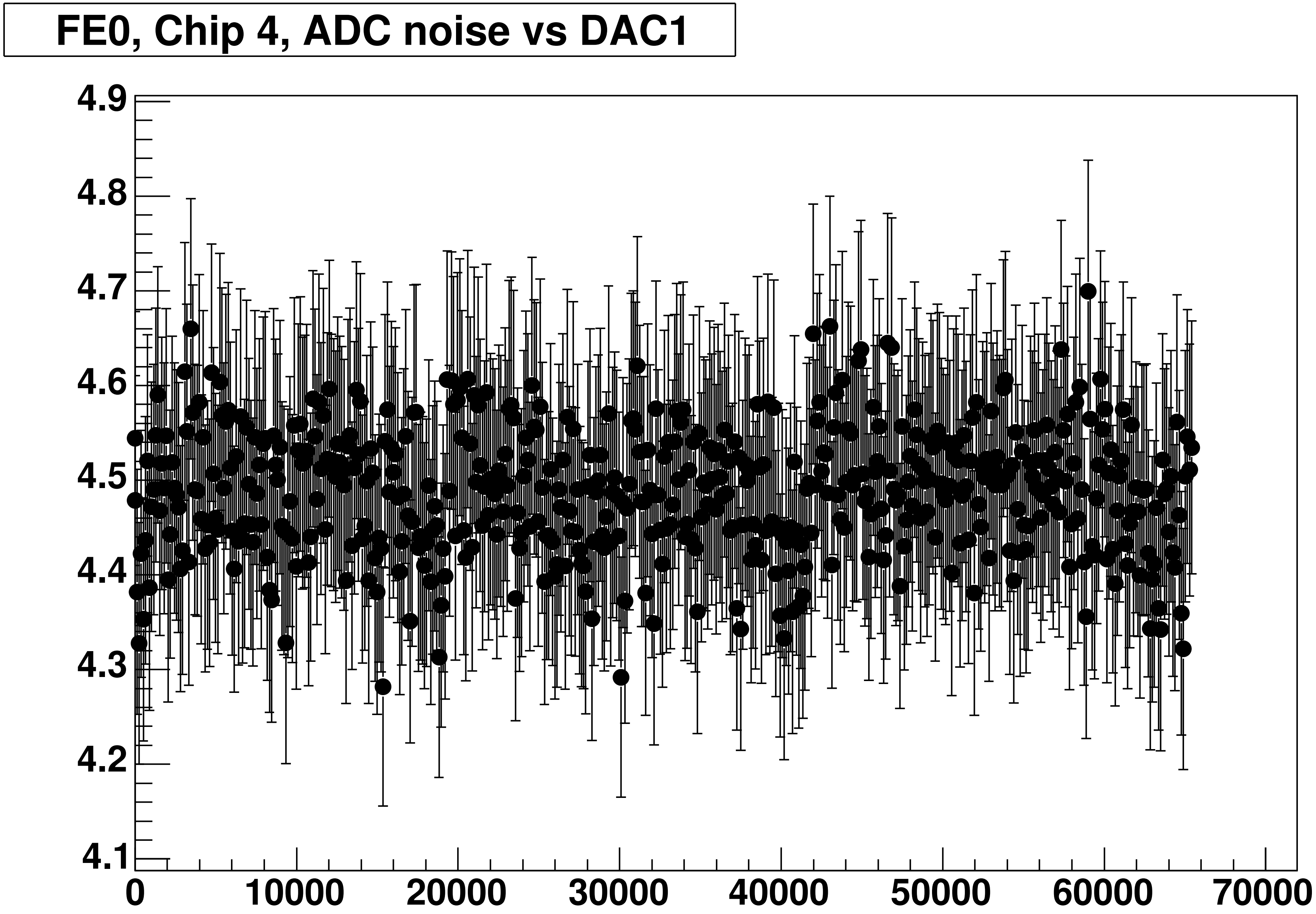
FE0, Chip 4, ADC noise vs DAC0

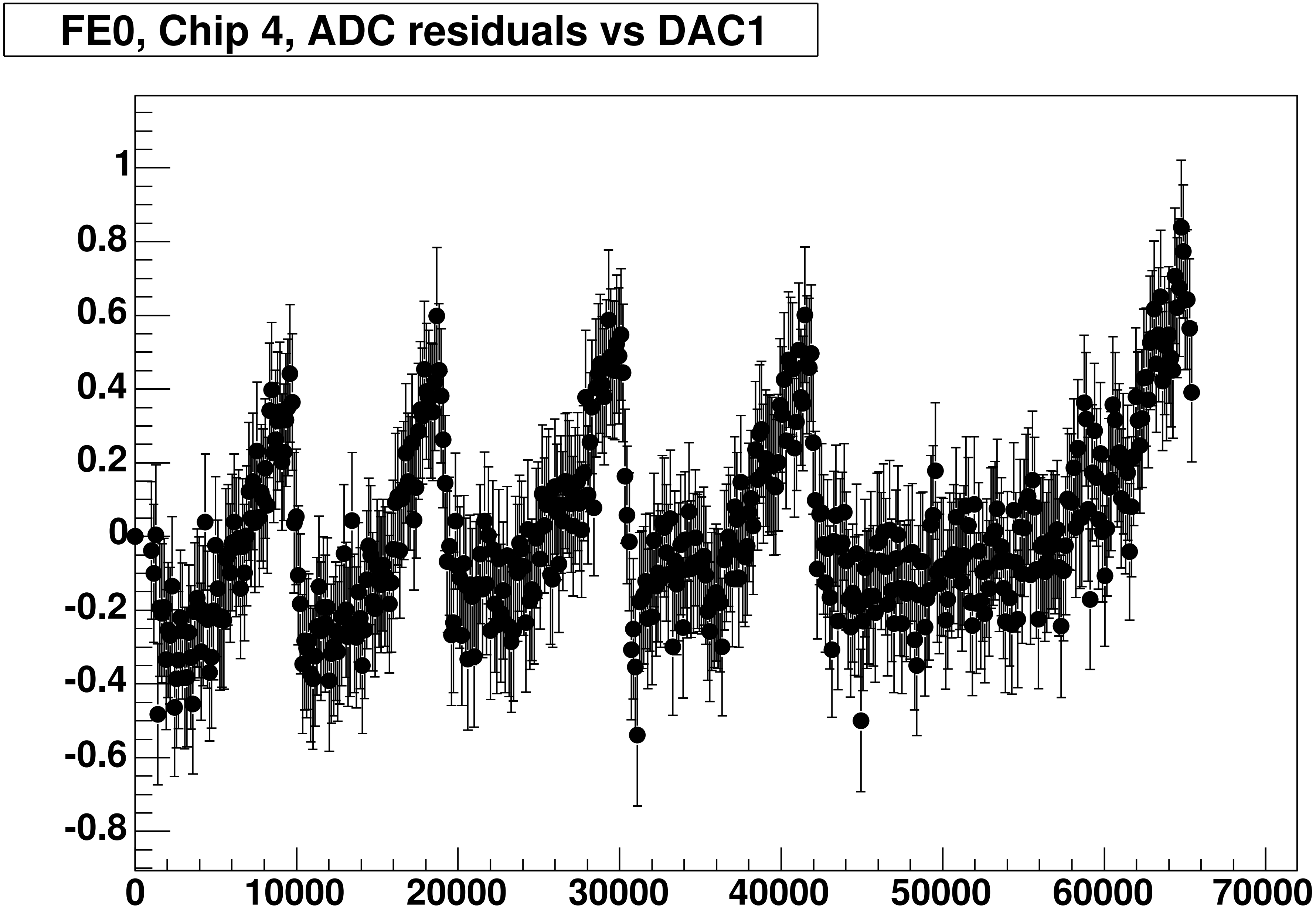



FE0, Chip 4, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

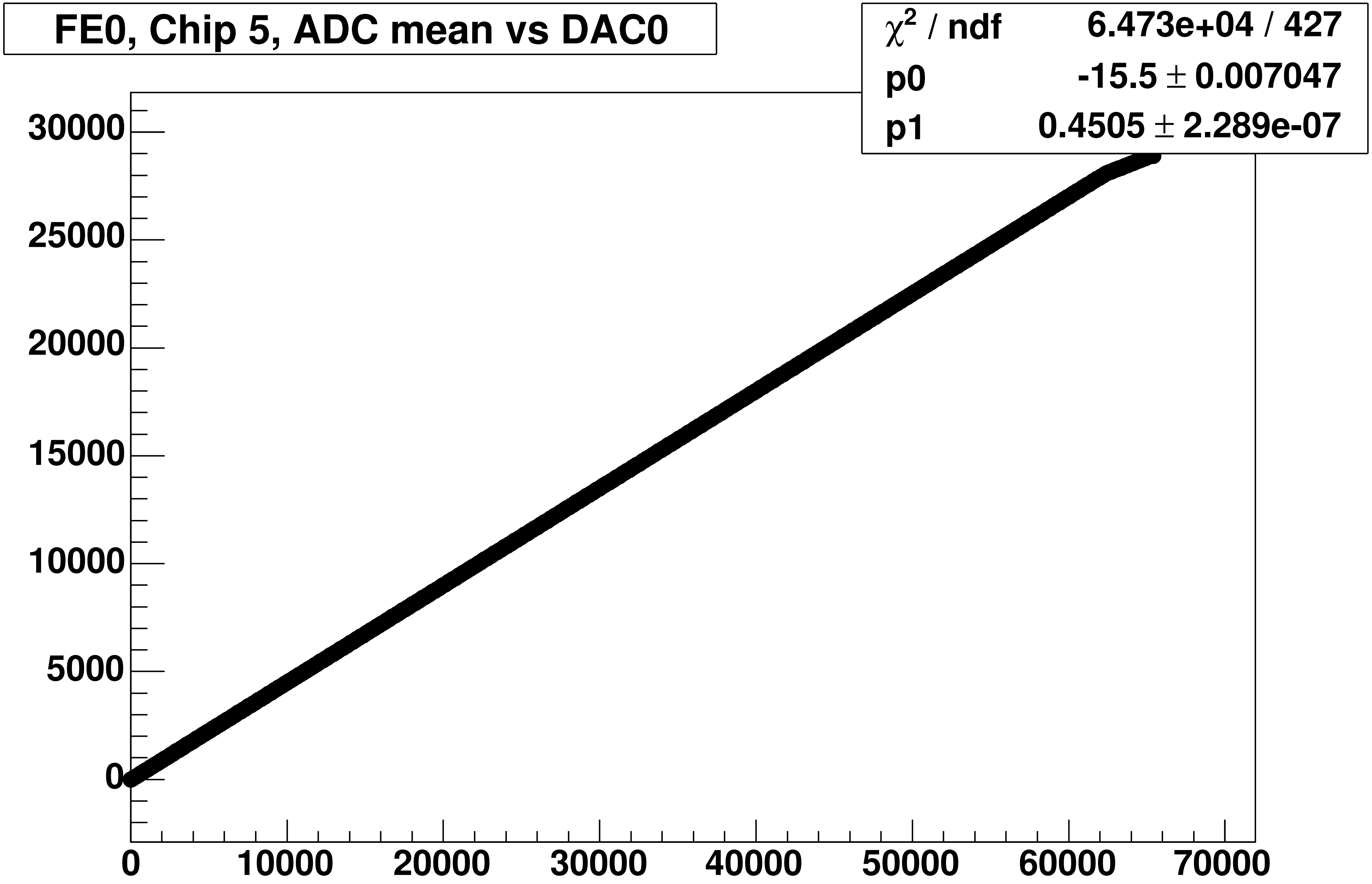


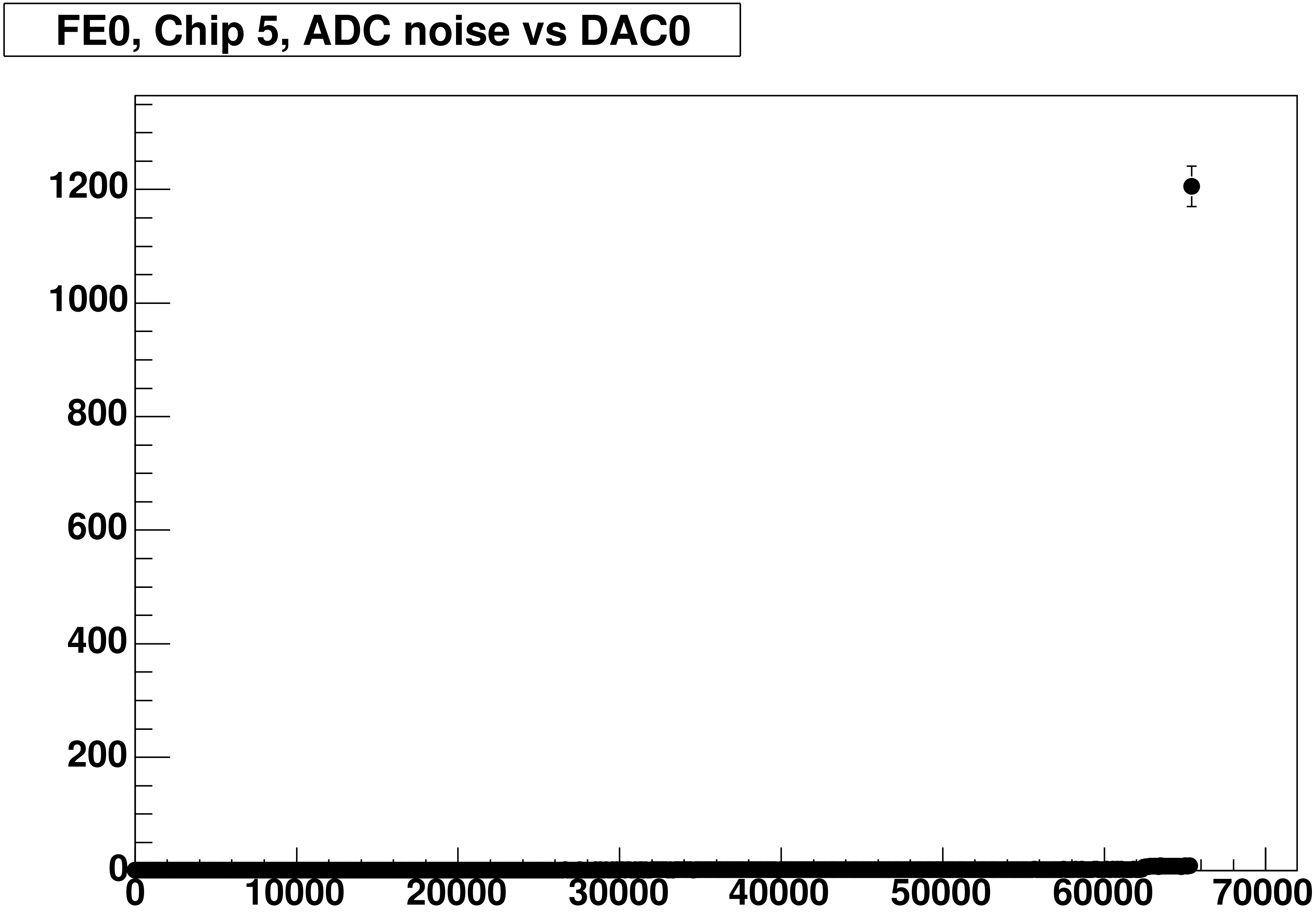
FE0, Chip 4, ADC mean vs DAC1
$\chi^2$ / ndf 552.1 / 427
p0 -9.951 ± 0.02061
p1 -4.988e-06 ± 5.706e-07
-9.2
-9.4
-9.6
-9.8
-10
-10.2
-10.4
-10.6
-10.8
-11
0
10000
20000
30000
40000
50000
60000
70000

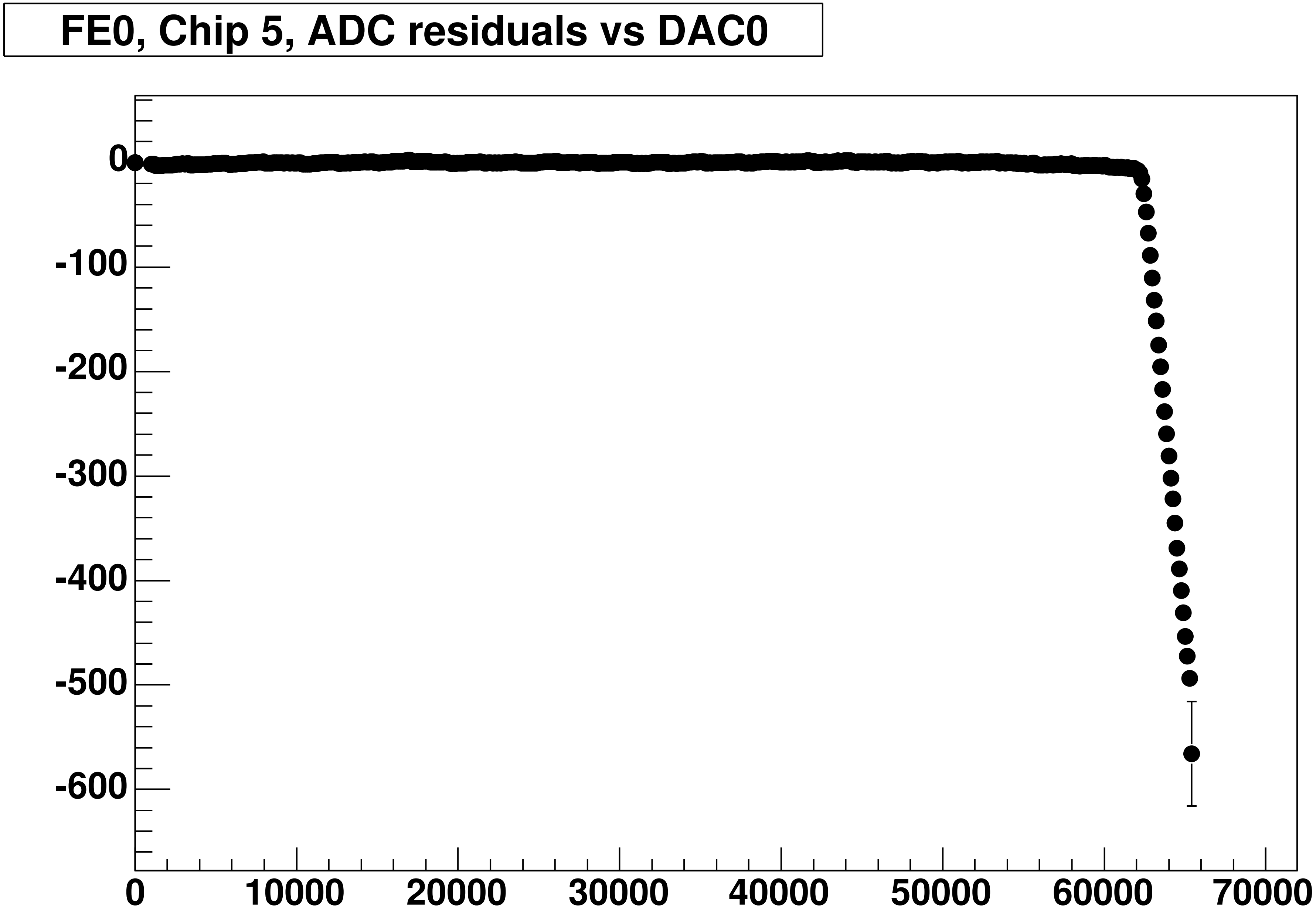

FE0, Chip 4, ADC noise vs DAC1
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
0
10000
20000
30000
40000
50000
60000
70000

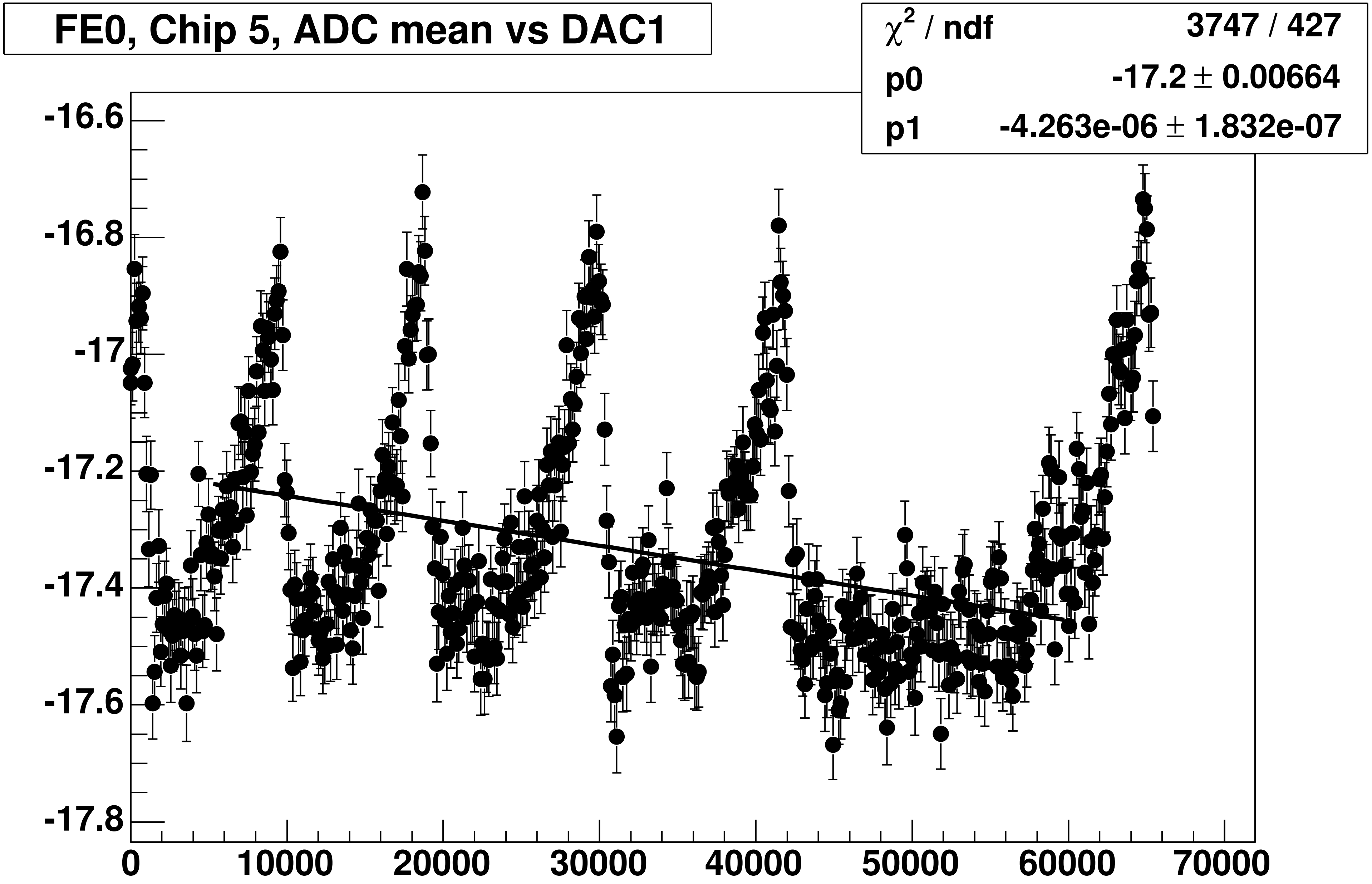


FE0, Chip 4, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
0
10000
20000
30000
40000
50000
60000
70000

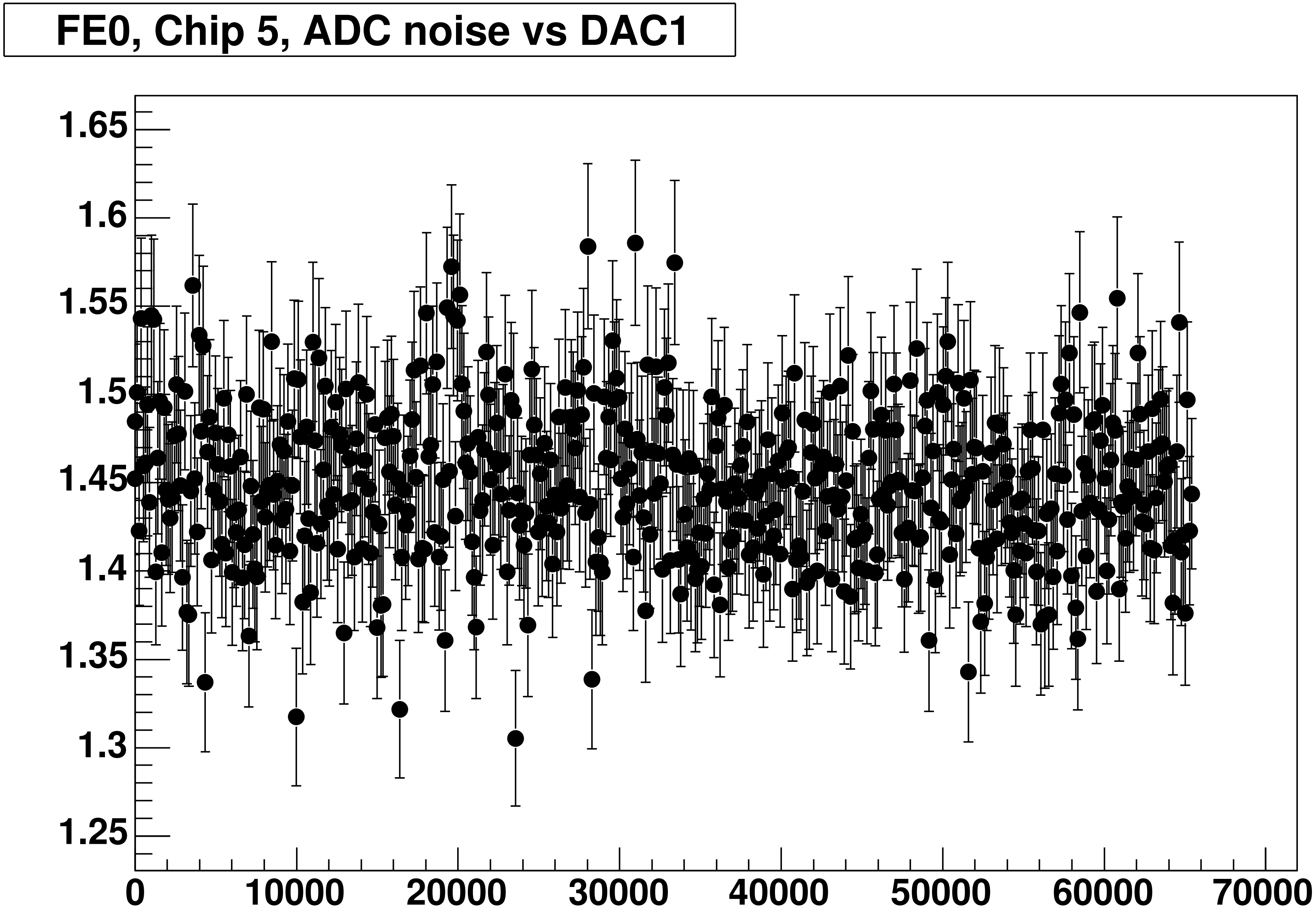

FE0, Chip 5, ADC mean vs DAC0
$\chi^2$ / ndf 6.473e+04 / 427
p0 -15.5 ± 0.007047
p1 0.4505 ± 2.289e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

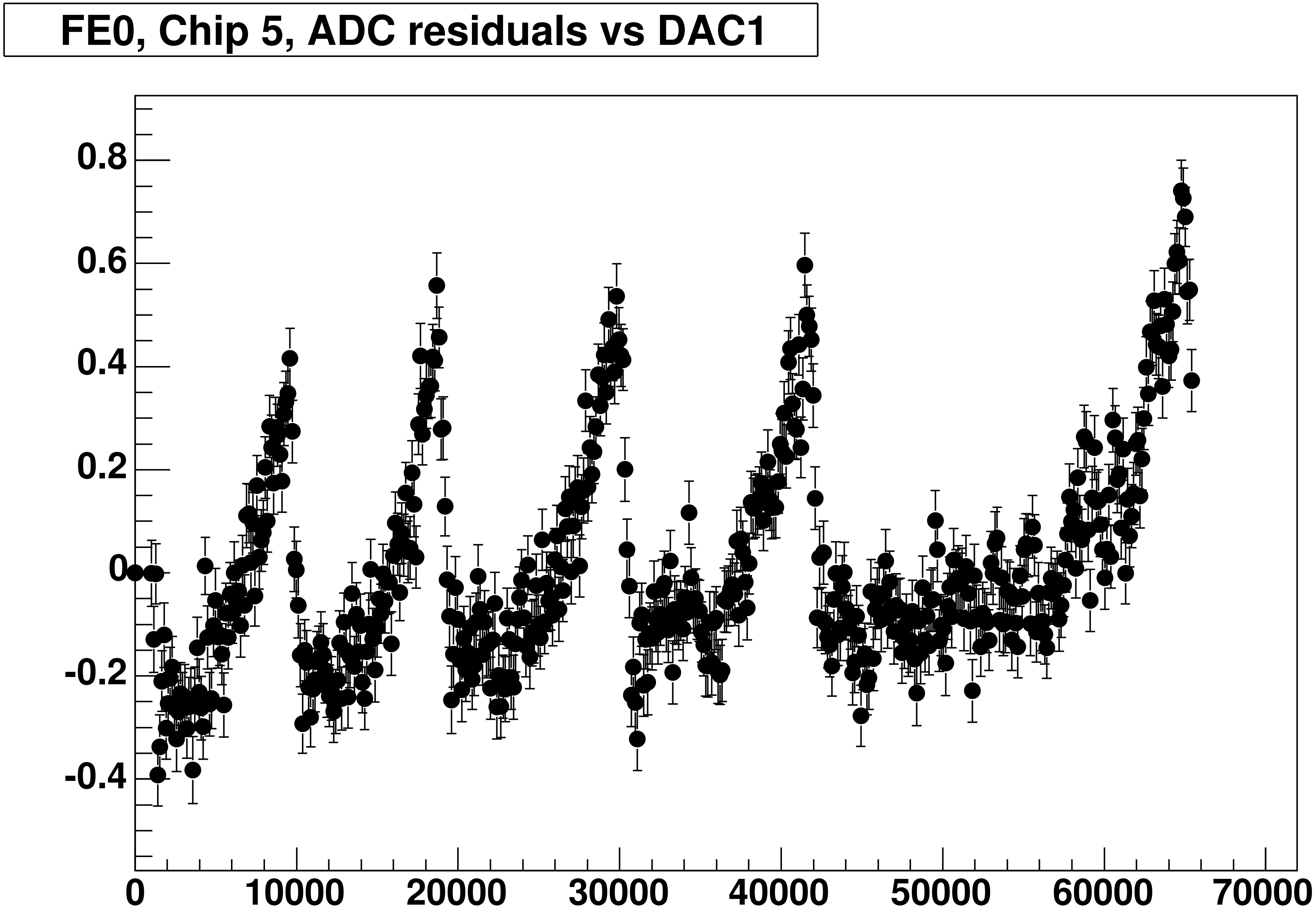

FE0, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000


FE0, Chip 5, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

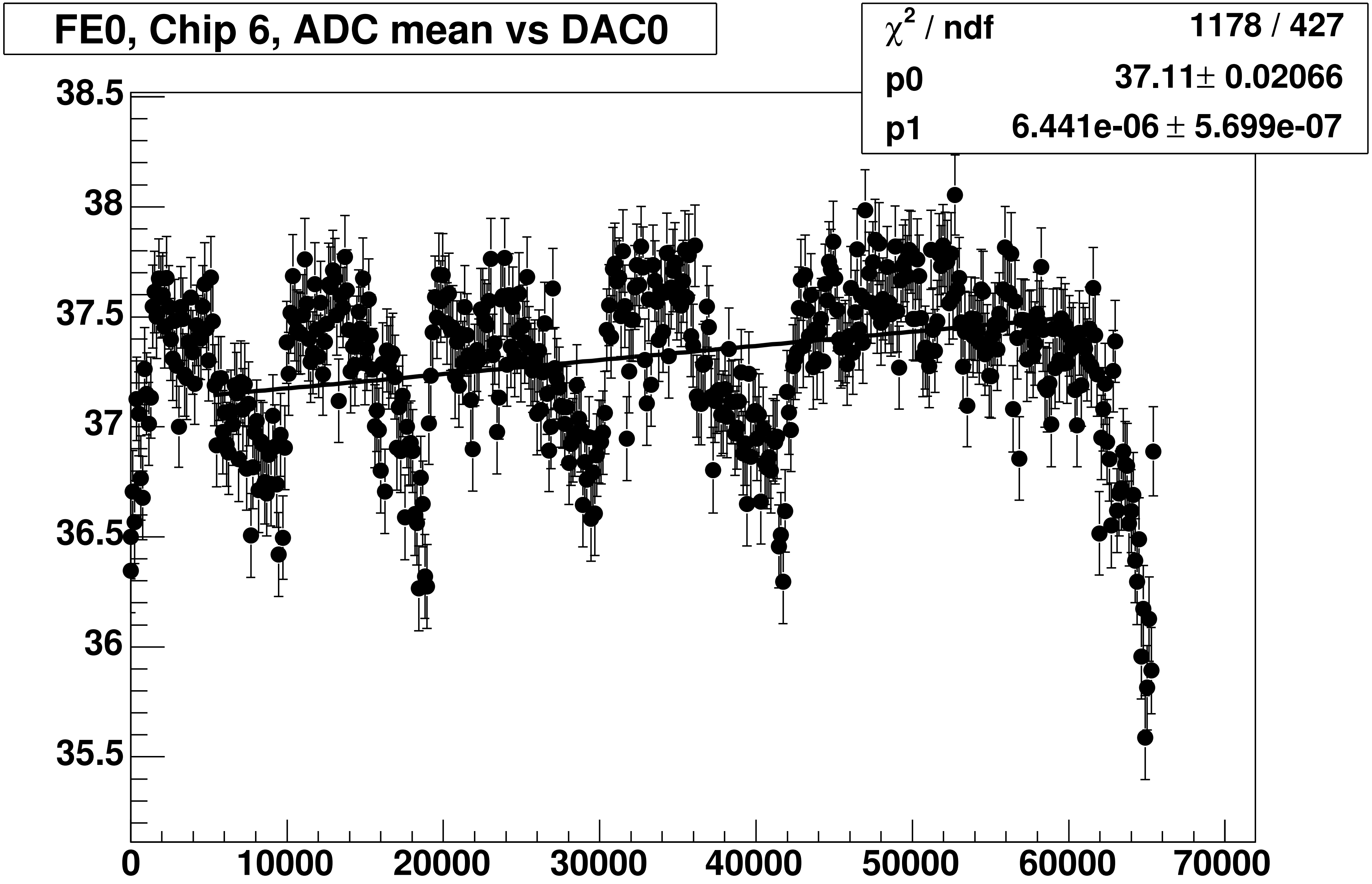


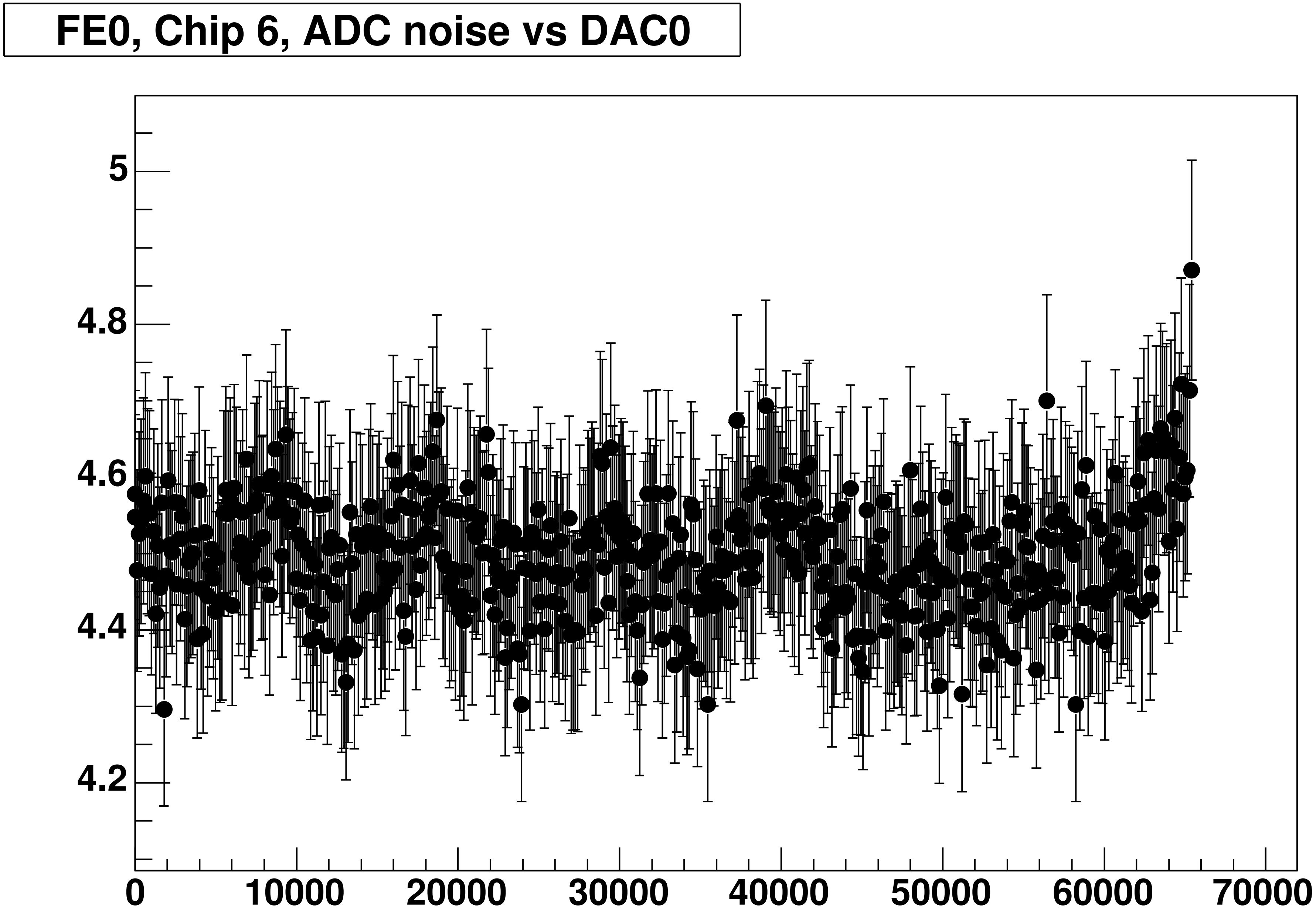
FE0, Chip 5, ADC mean vs DAC1
$\chi^2$ / ndf 3747 / 427
p0 -17.2 ± 0.00664
p1 -4.263e-06 ± 1.832e-07
-16.6
-16.8
-17
-17.2
-17.4
-17.6
-17.8
0
10000
20000
30000
40000
50000
60000
70000

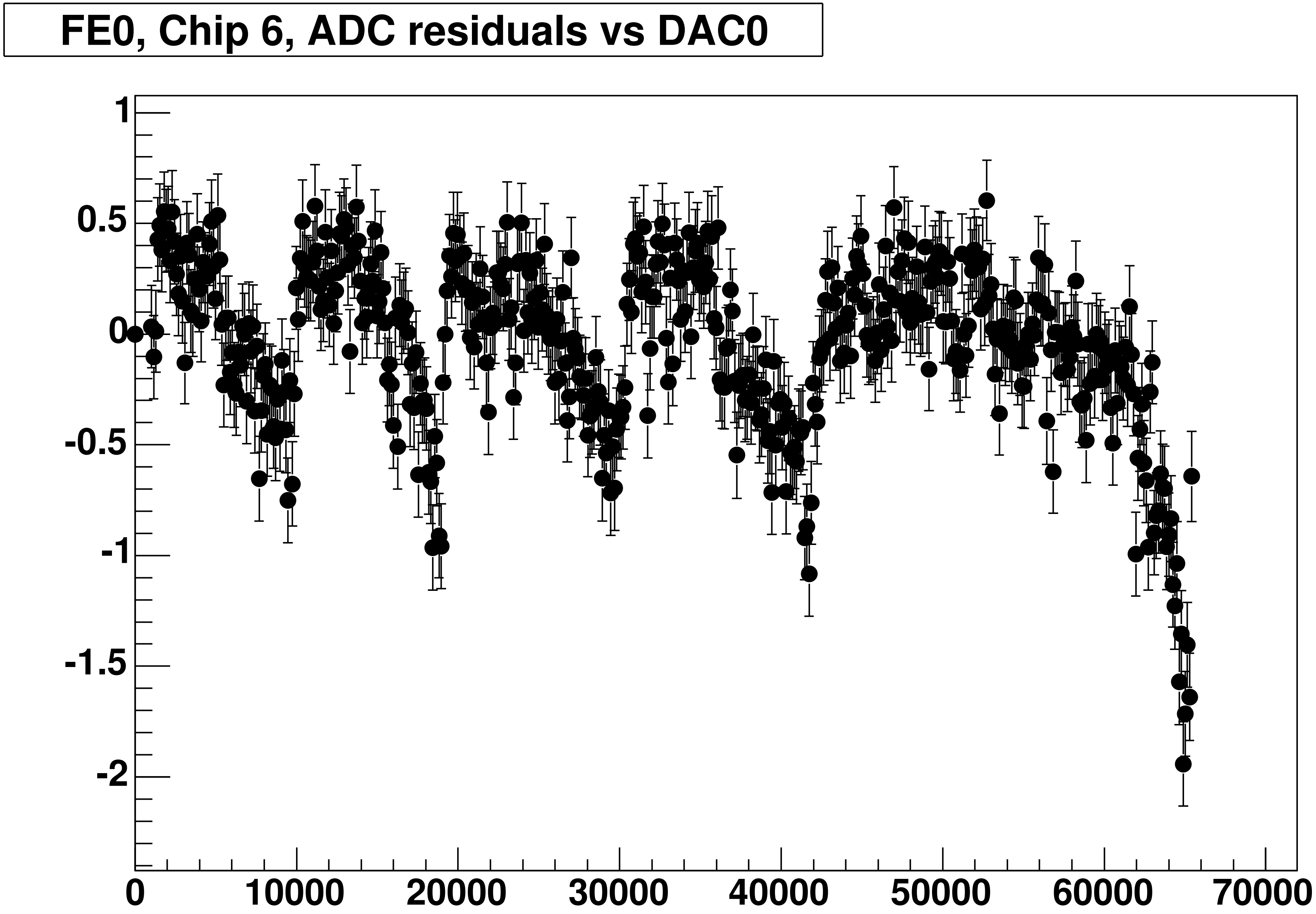

FE0, Chip 5, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000
70000

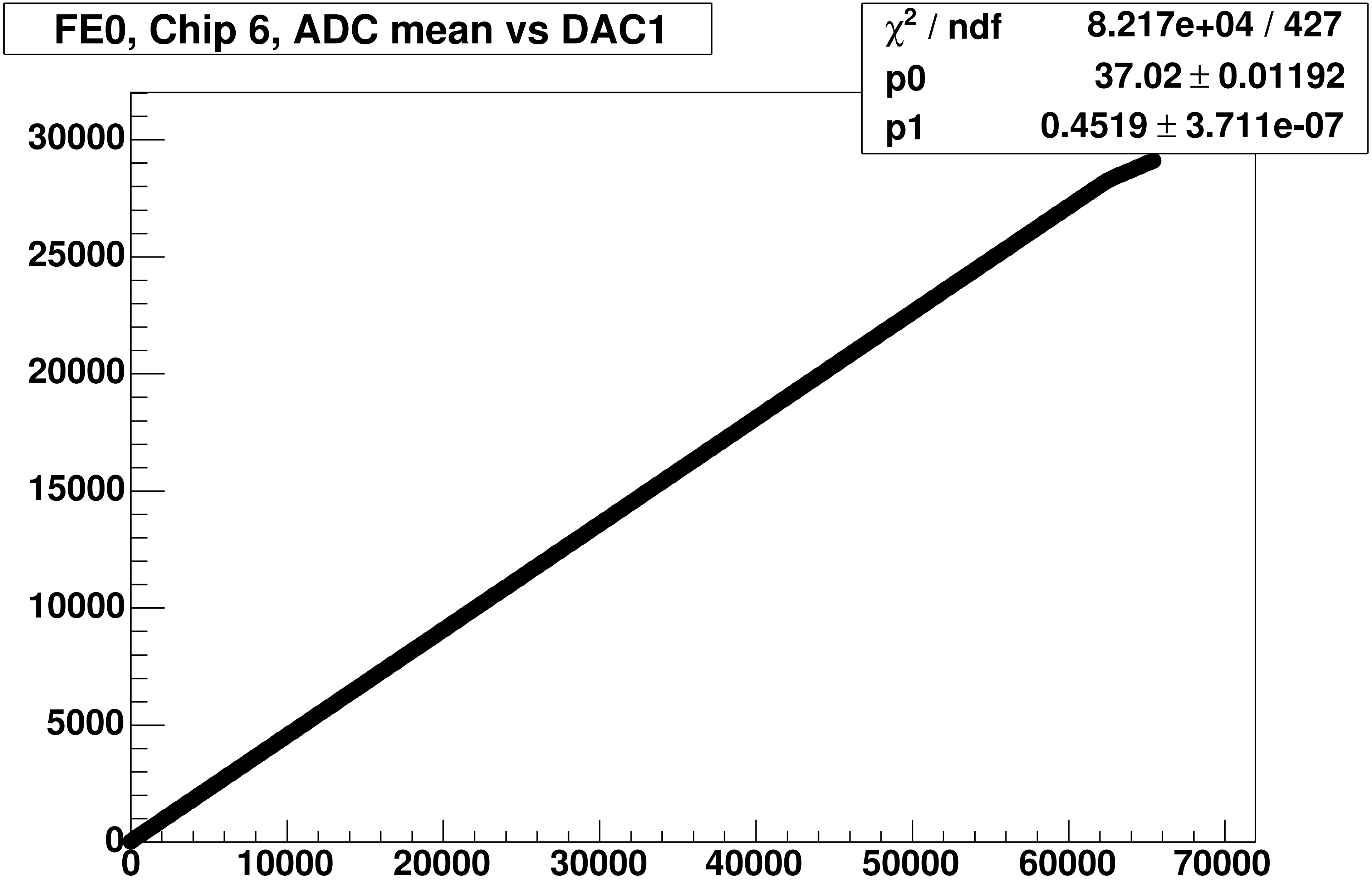


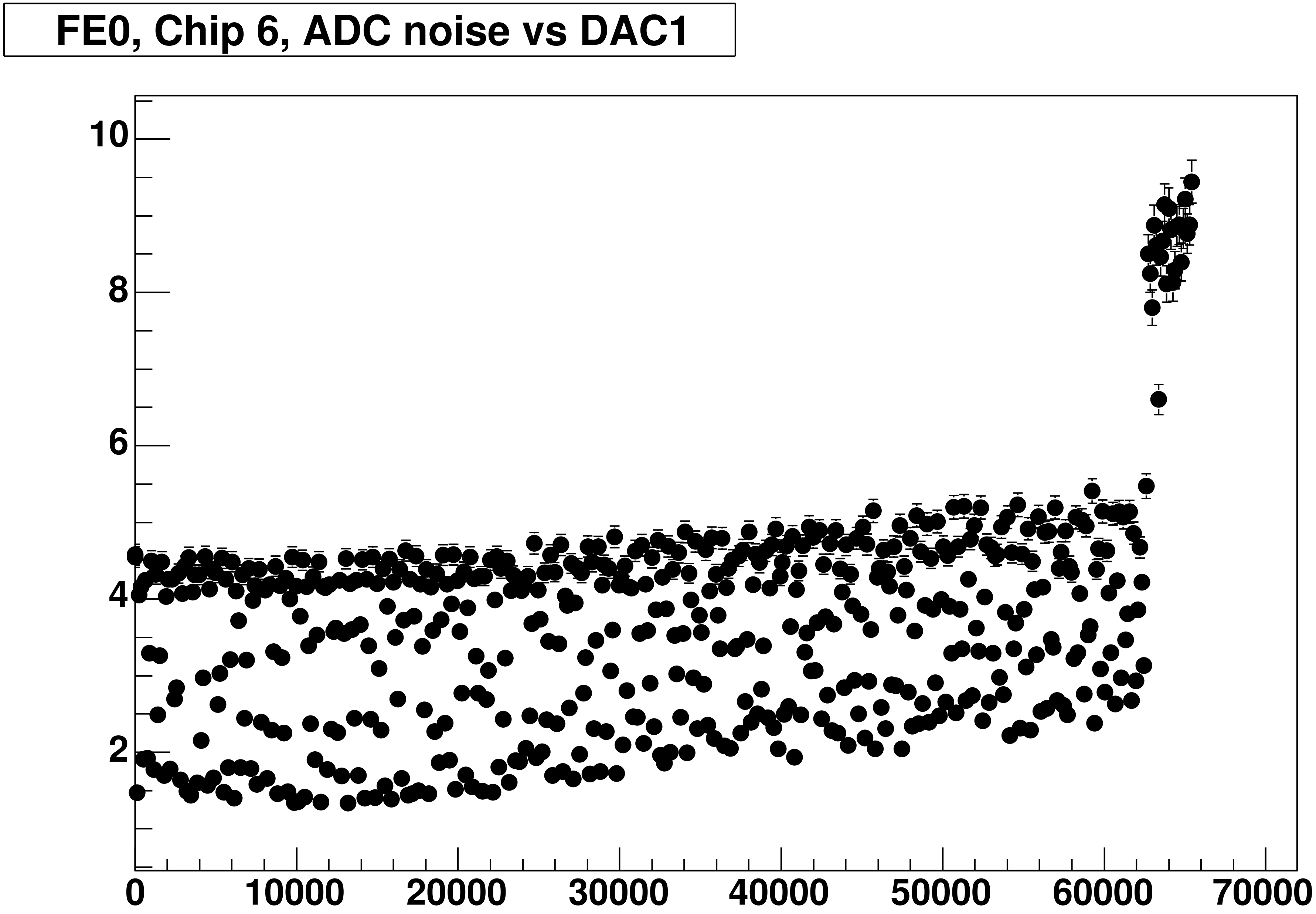
FE0, Chip 5, ADC residuals vs DAC1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000
70000


FE0, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 1178 / 427
p0 37.11± 0.02066
p1 6.441e-06 ± 5.699e-07
38.5
38
37.5
37
36.5
36
35.5
0
10000
20000
30000
40000
50000
60000
70000

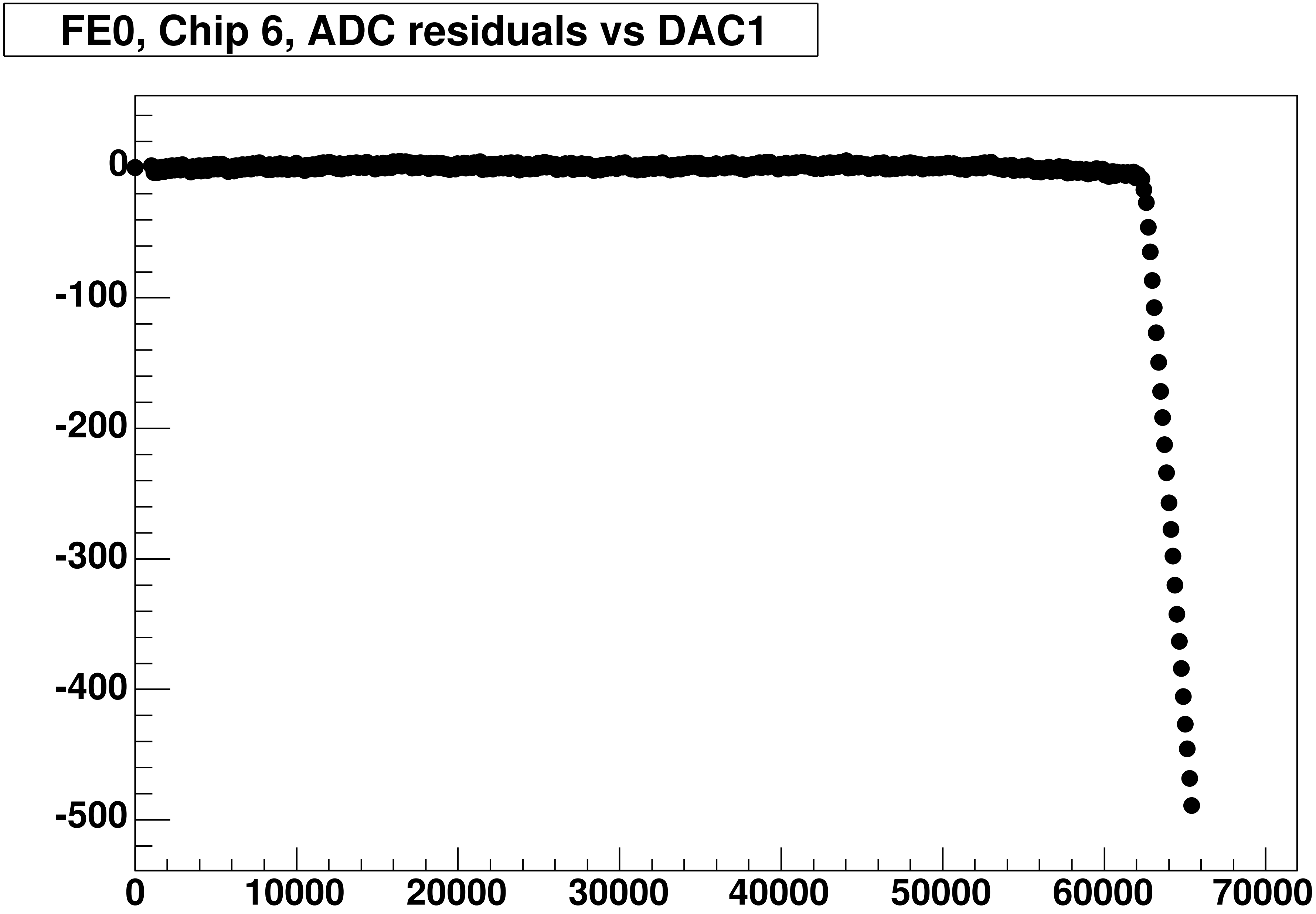

FE0, Chip 6, ADC noise vs DAC0
5
4.8
4.6
4.4
4.2
0
10000
20000
30000
40000
50000
60000
70000


FE0, Chip 6, ADC residuals vs DAC0
1
0.5
0
-0.5
-1
-1.5
-2
0
10000
20000
30000
40000
50000
60000
70000

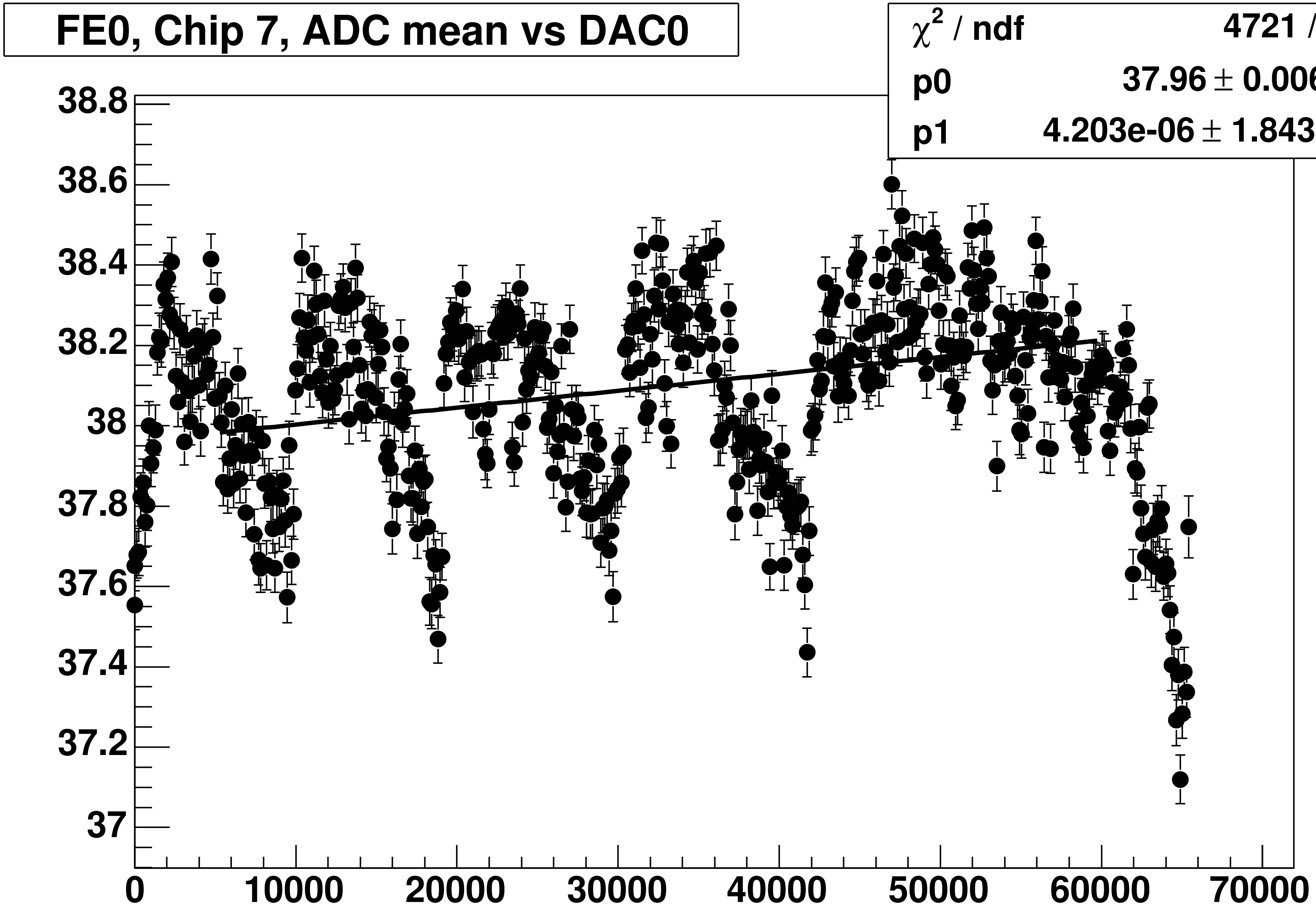

FE0, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 8.217e+04 / 427
p0 37.02 ± 0.01192
p1 0.4519 ± 3.711e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000



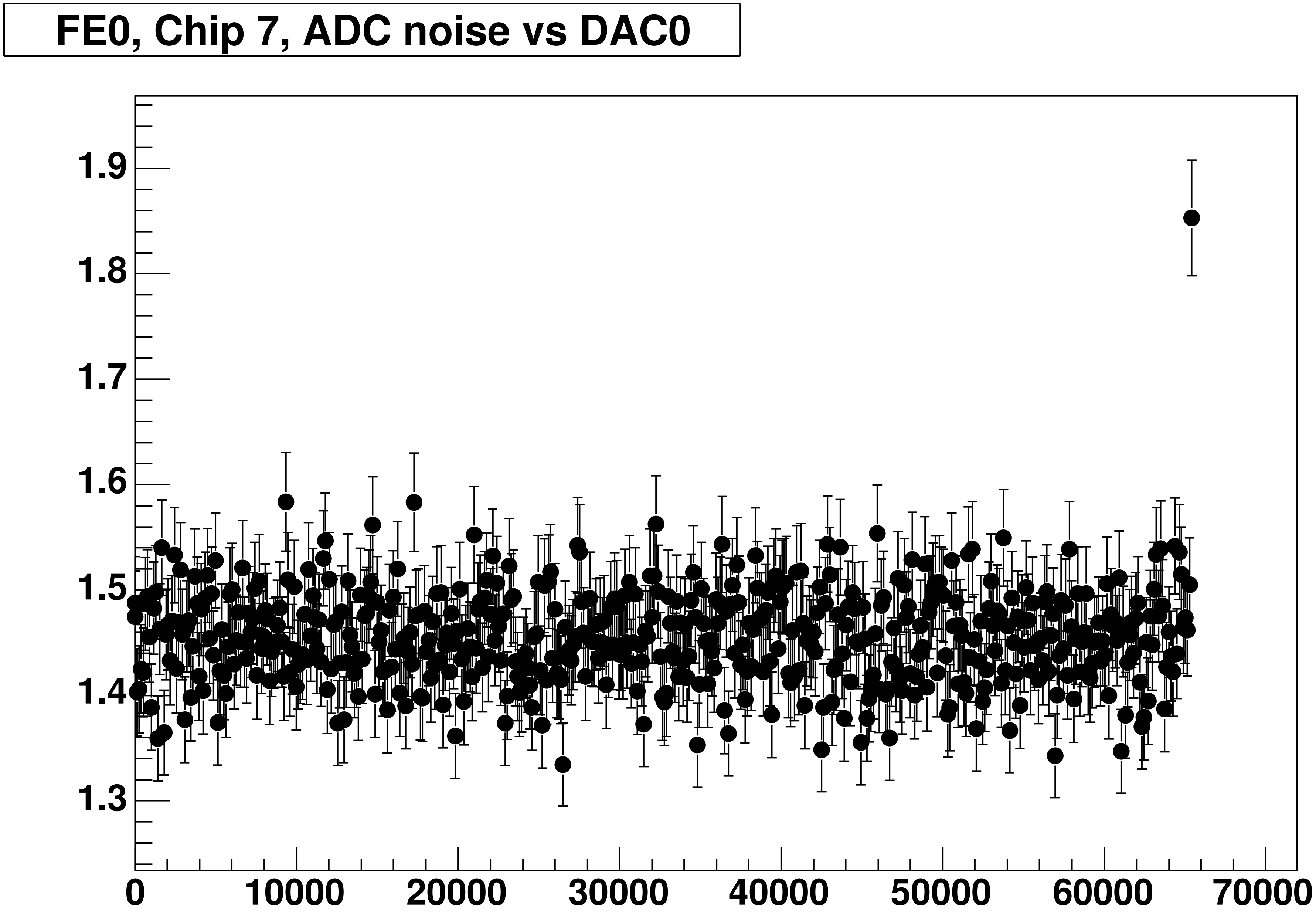
FE0, Chip 6, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000



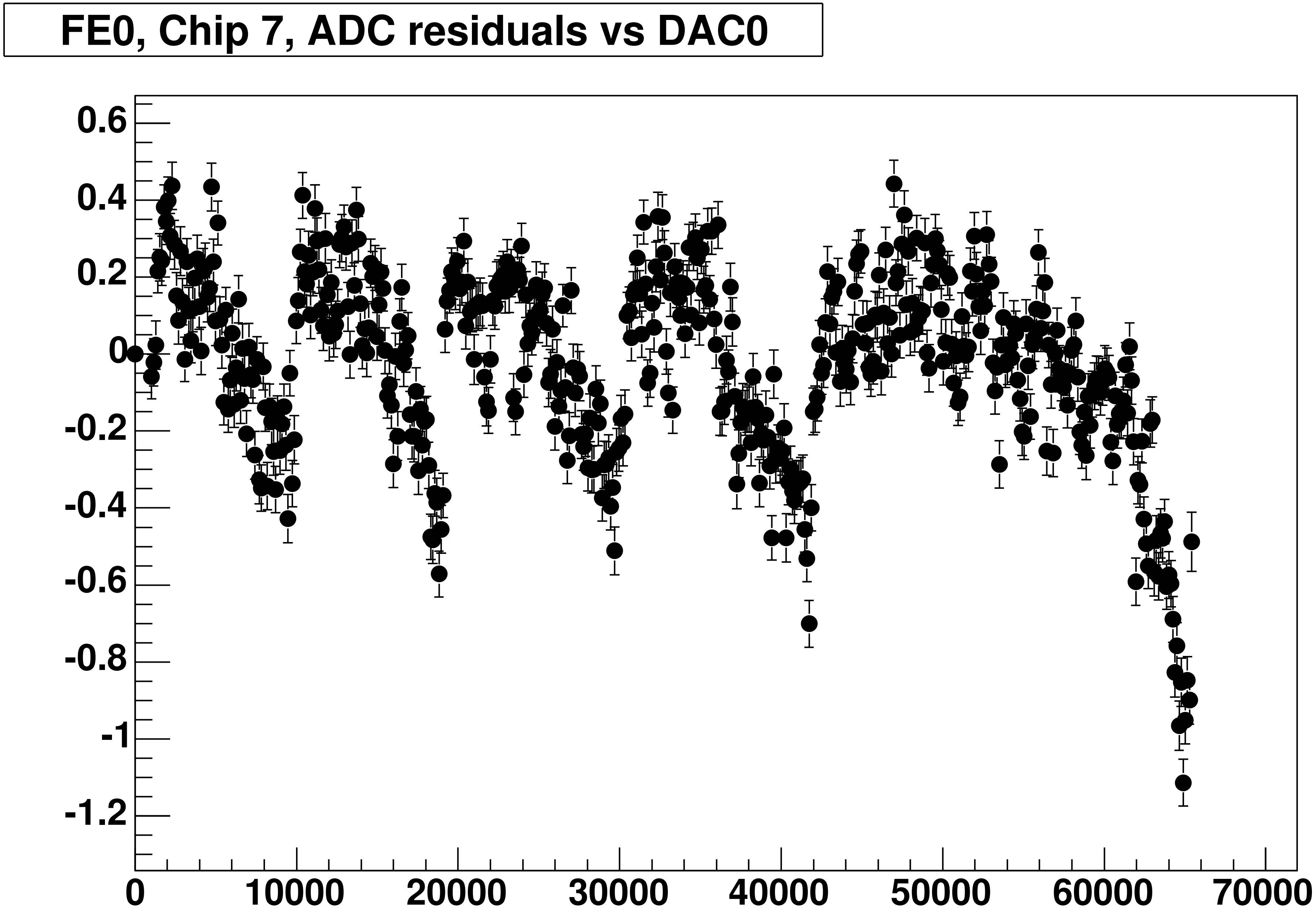
FE0, Chip 6, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000

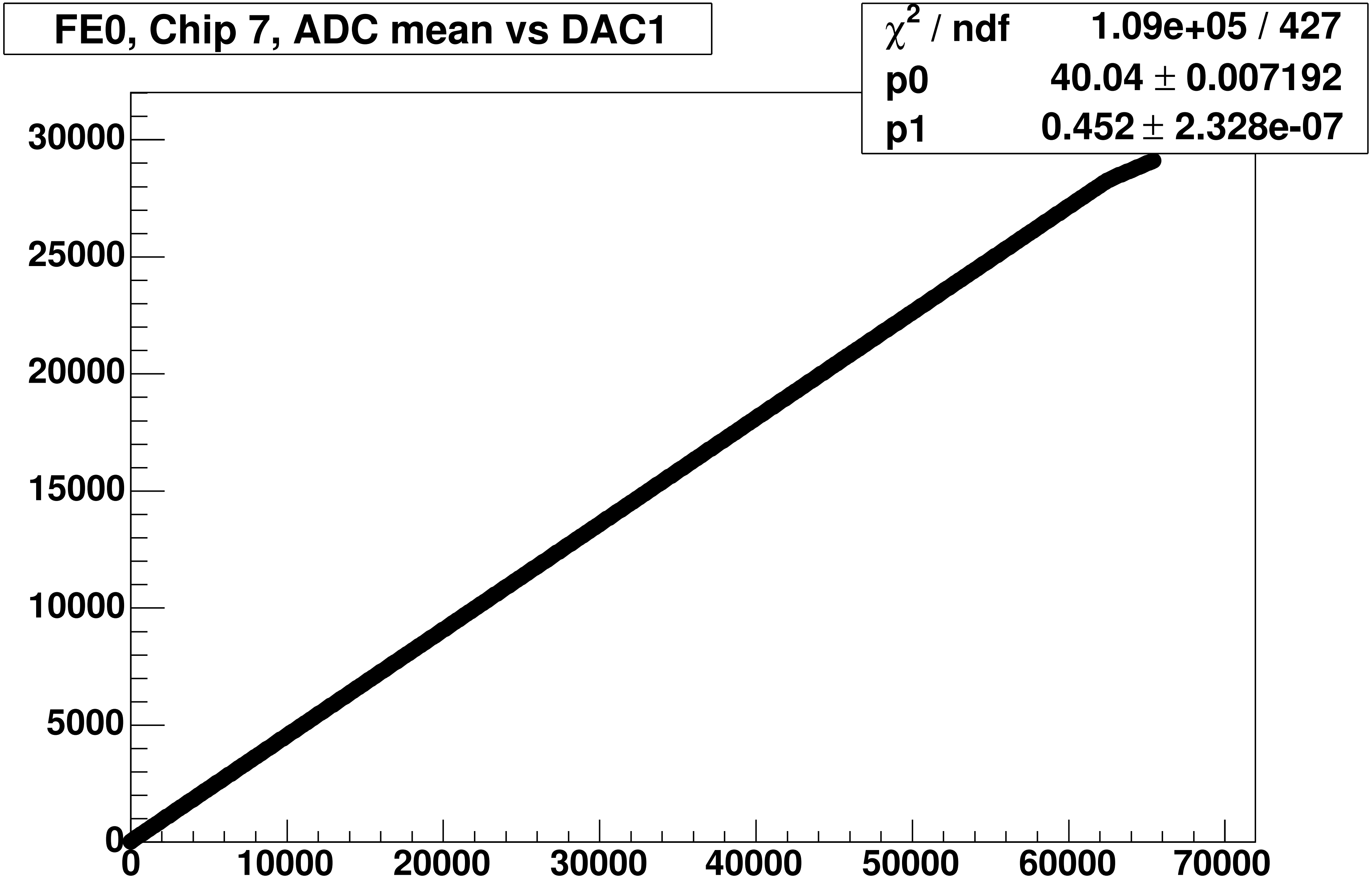


FE0, Chip 7, ADC mean vs DAC0
$\chi^2$ / ndf 4721 / 427
p0 37.96 ± 0.006672
p1 4.203e-06 ± 1.843e-07
38.8
38.6
38.4
38.2
38
37.8
37.6
37.4
37.2
37
0
10000
20000
30000
40000
50000
60000
70000



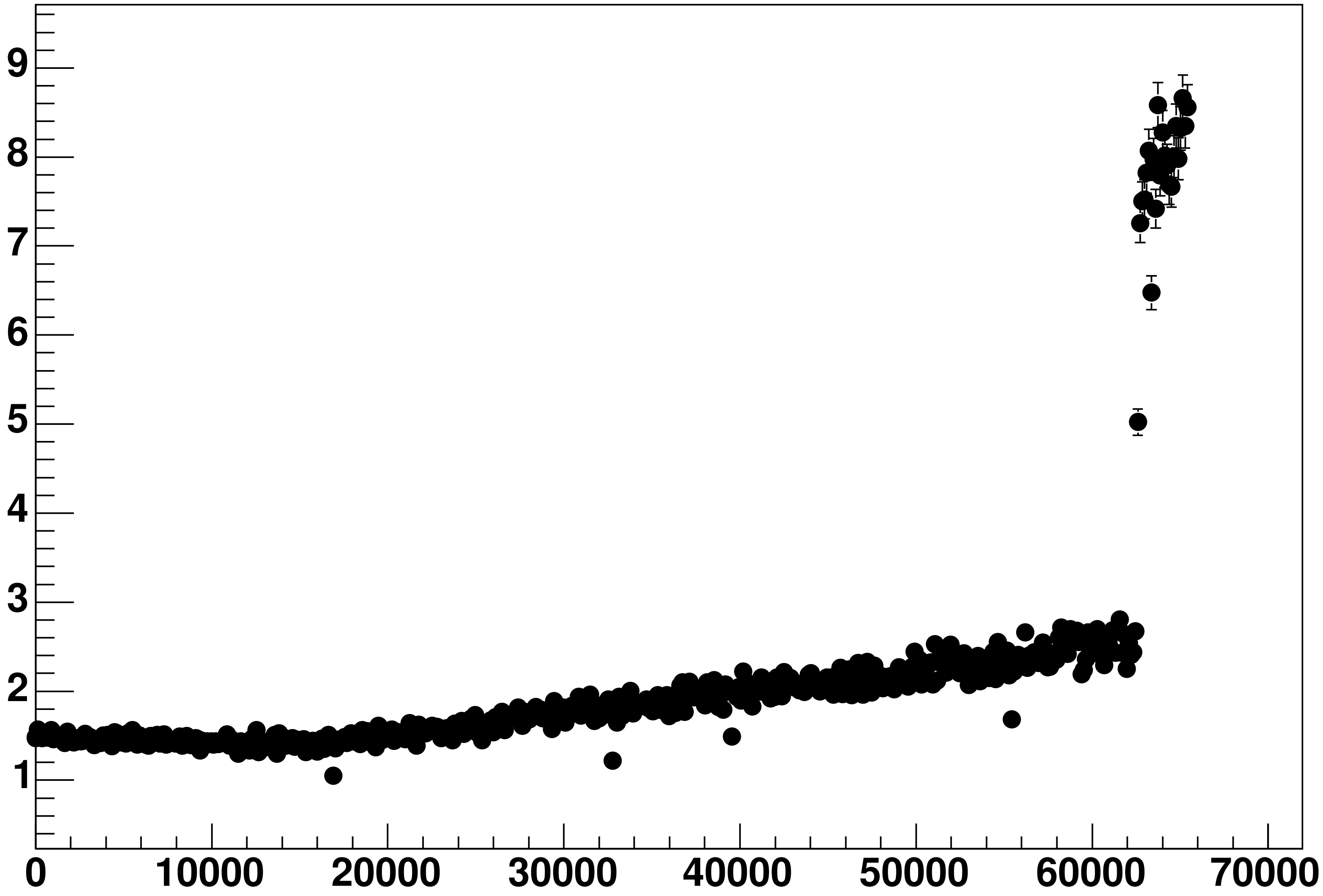
FE0, Chip 7, ADC noise vs DAC0
1.3
1.4
1.5
1.6
1.7
1.8
1.9
0
10000
20000
30000
40000
50000
60000
70000

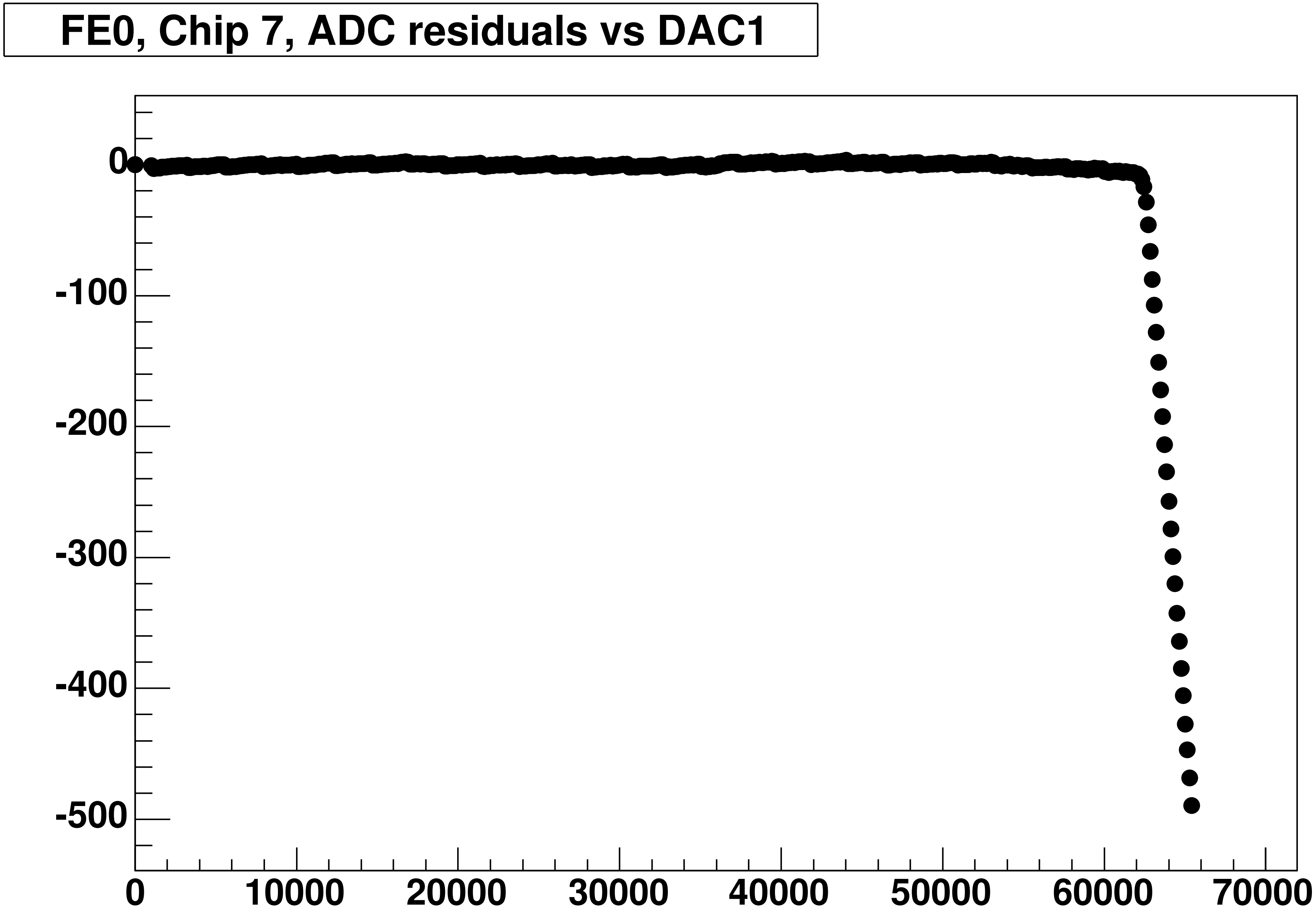

FE0, Chip 7, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
0
10000
20000
30000
40000
50000
60000
70000

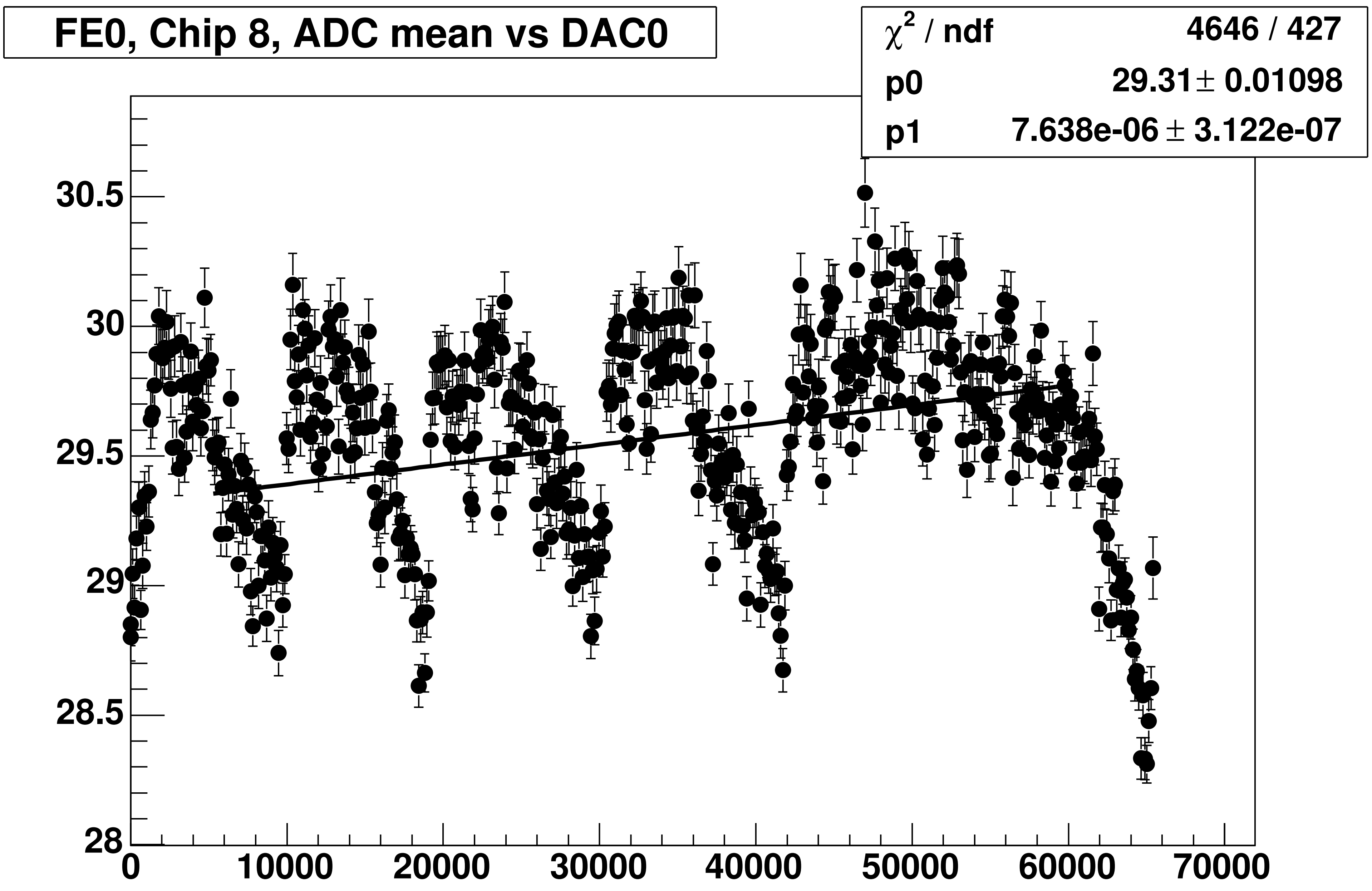


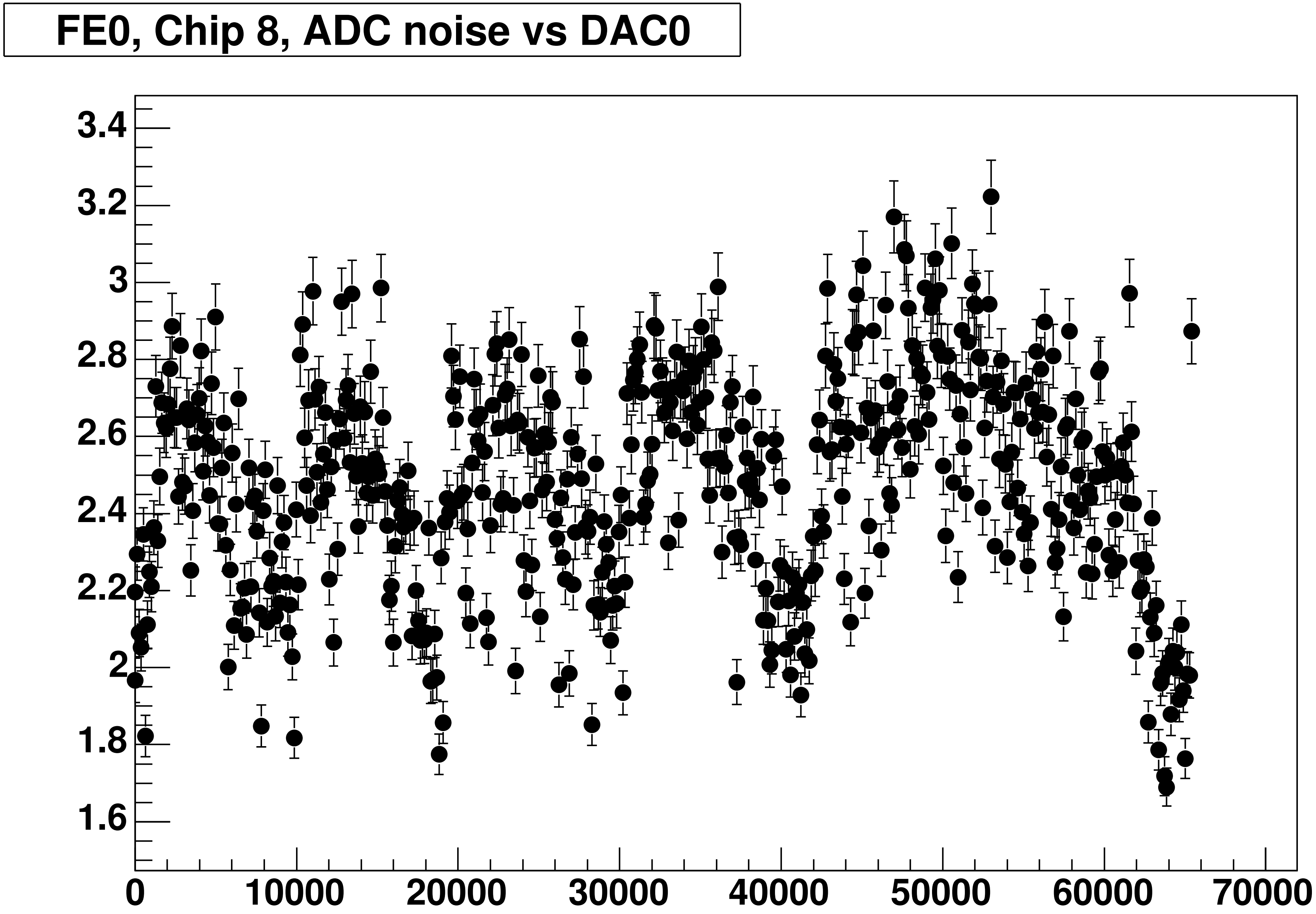
FE0, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 1.09e+05 / 427
p0 40.04 ± 0.007192
p1 0.452 ± 2.328e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

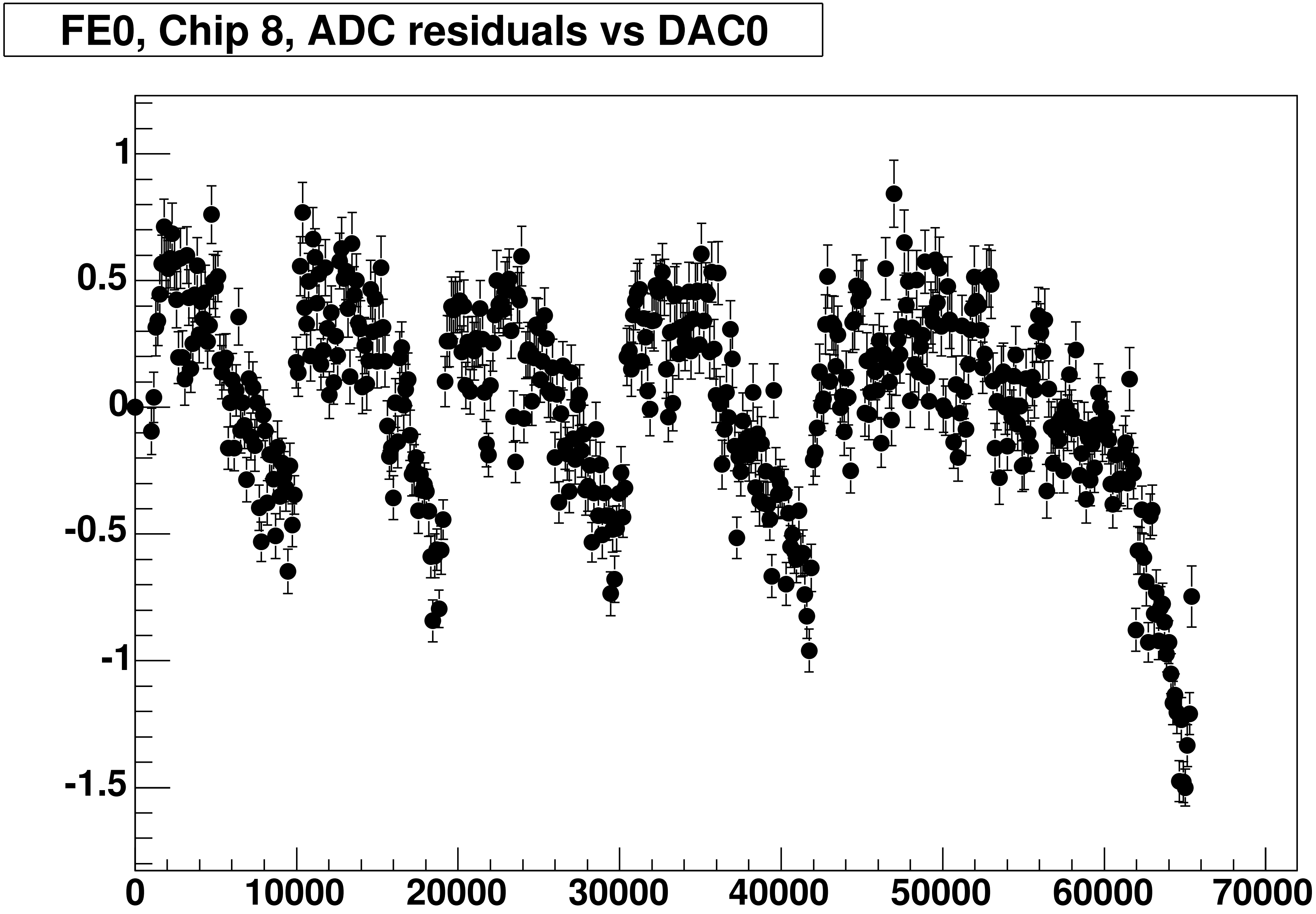
FE0, Chip 7, ADC noise vs DAC1

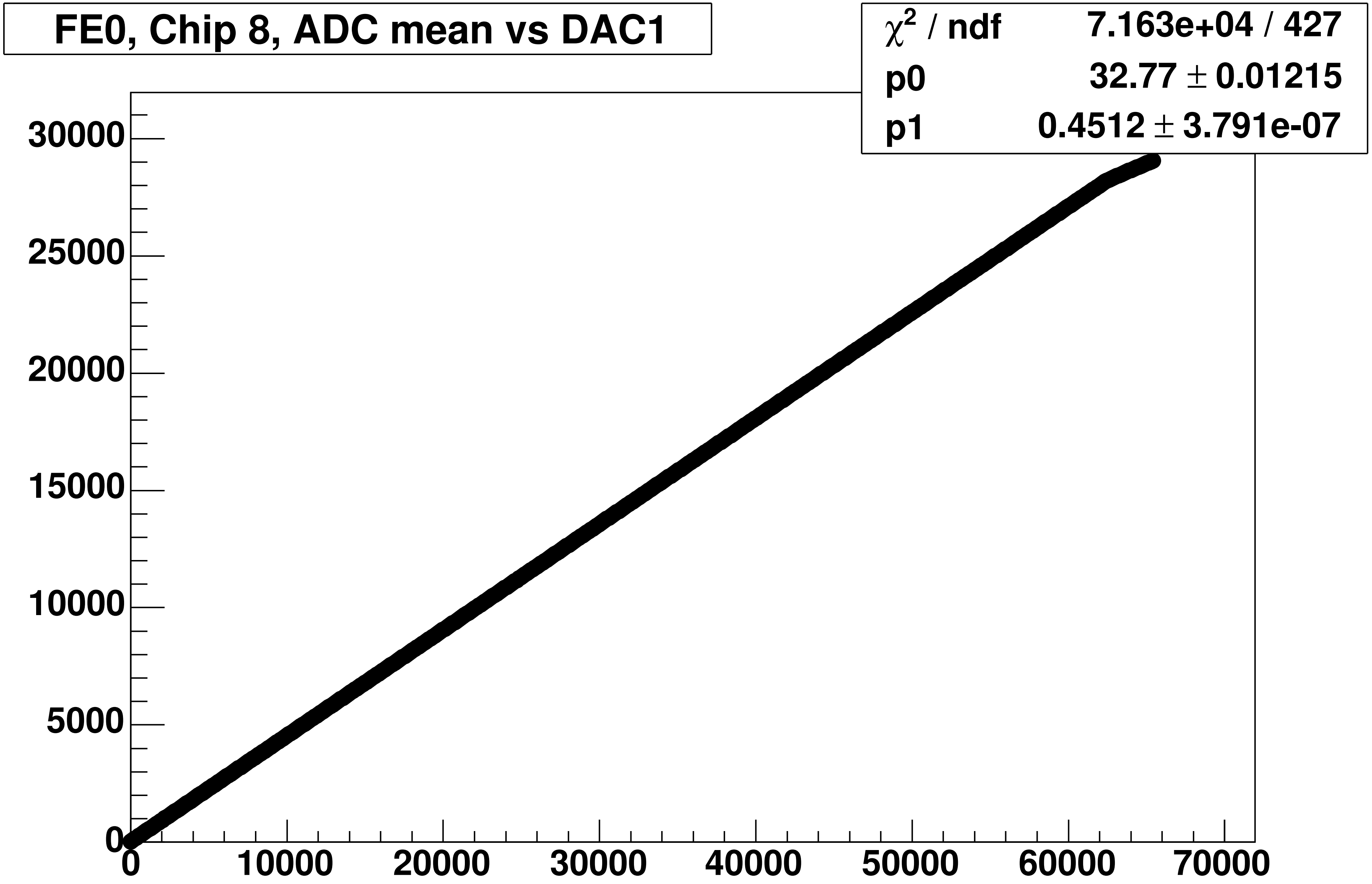



FE0, Chip 7, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000

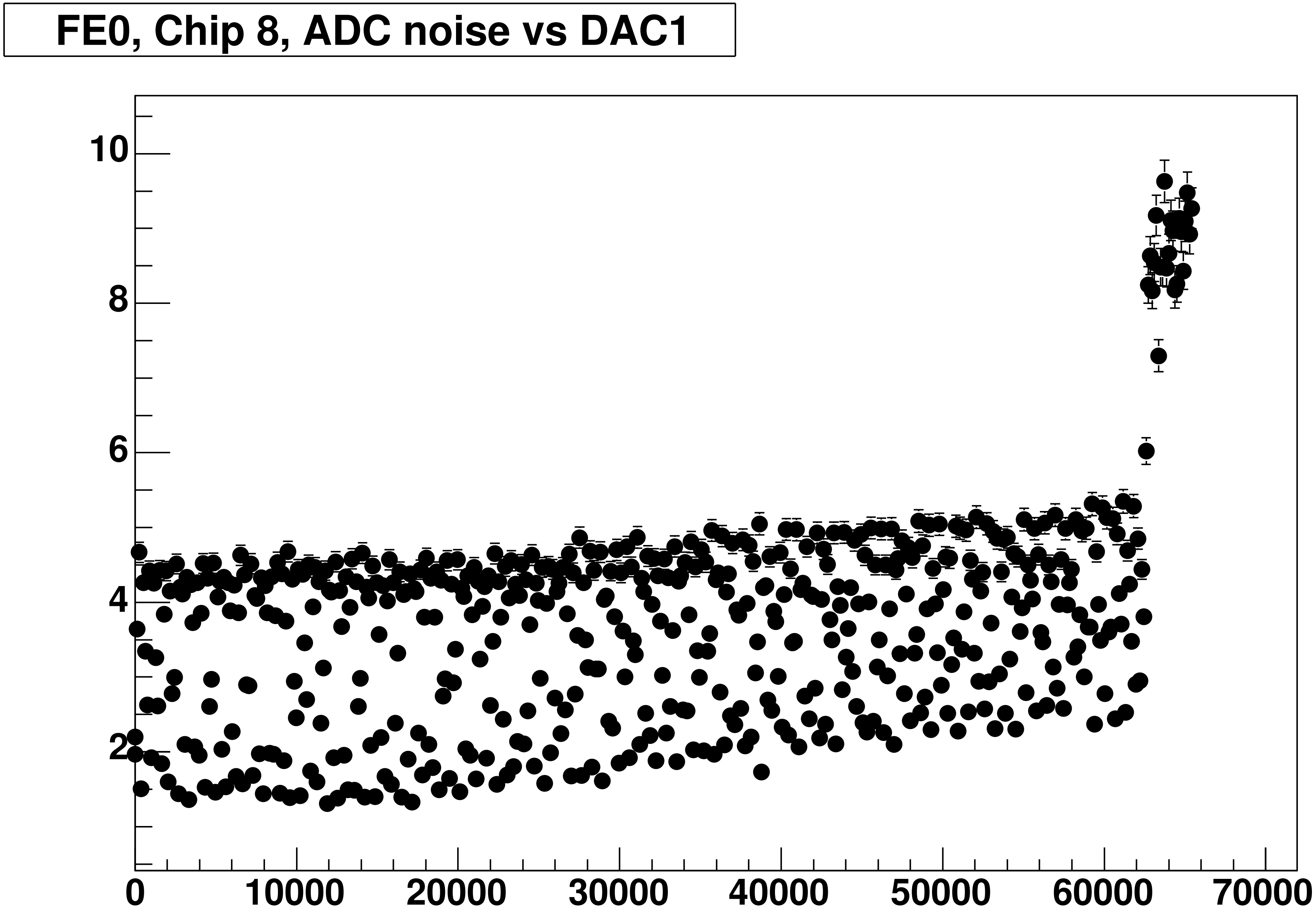

FE0, Chip 8, ADC mean vs DAC0
$\chi^2$ / ndf 4646 / 427
p0 29.31 ± 0.01098
p1 7.638e-06 ± 3.122e-07
30.5
30
29.5
29
28.5
28
0
10000
20000
30000
40000
50000
60000
70000

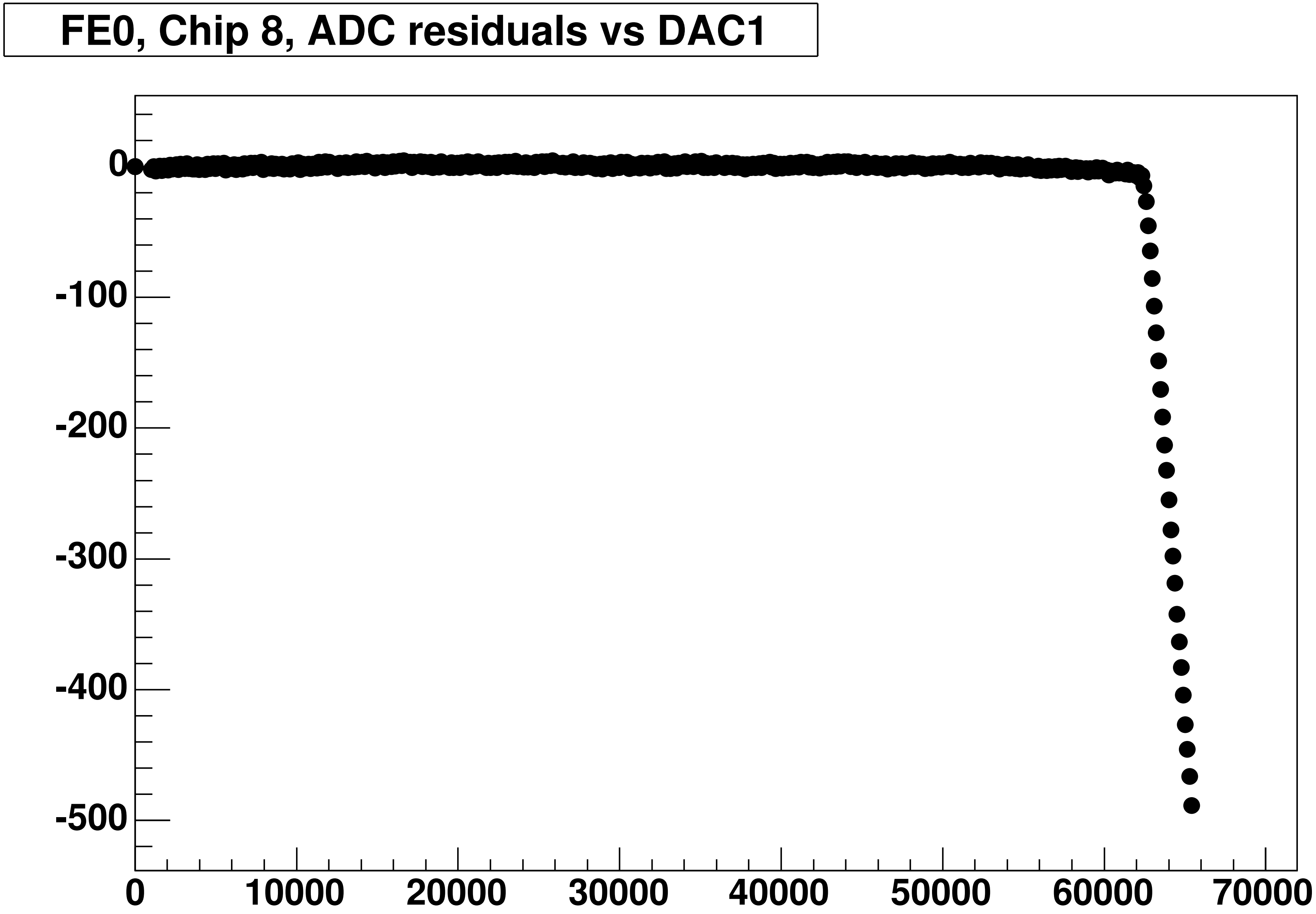

FE0, Chip 8, ADC noise vs DAC0
3.4
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
0
10000
20000
30000
40000
50000
60000
70000


FE0, Chip 8, ADC residuals vs DAC0
1
0.5
0
-0.5
-1
-1.5
0
10000
20000
30000
40000
50000
60000
70000

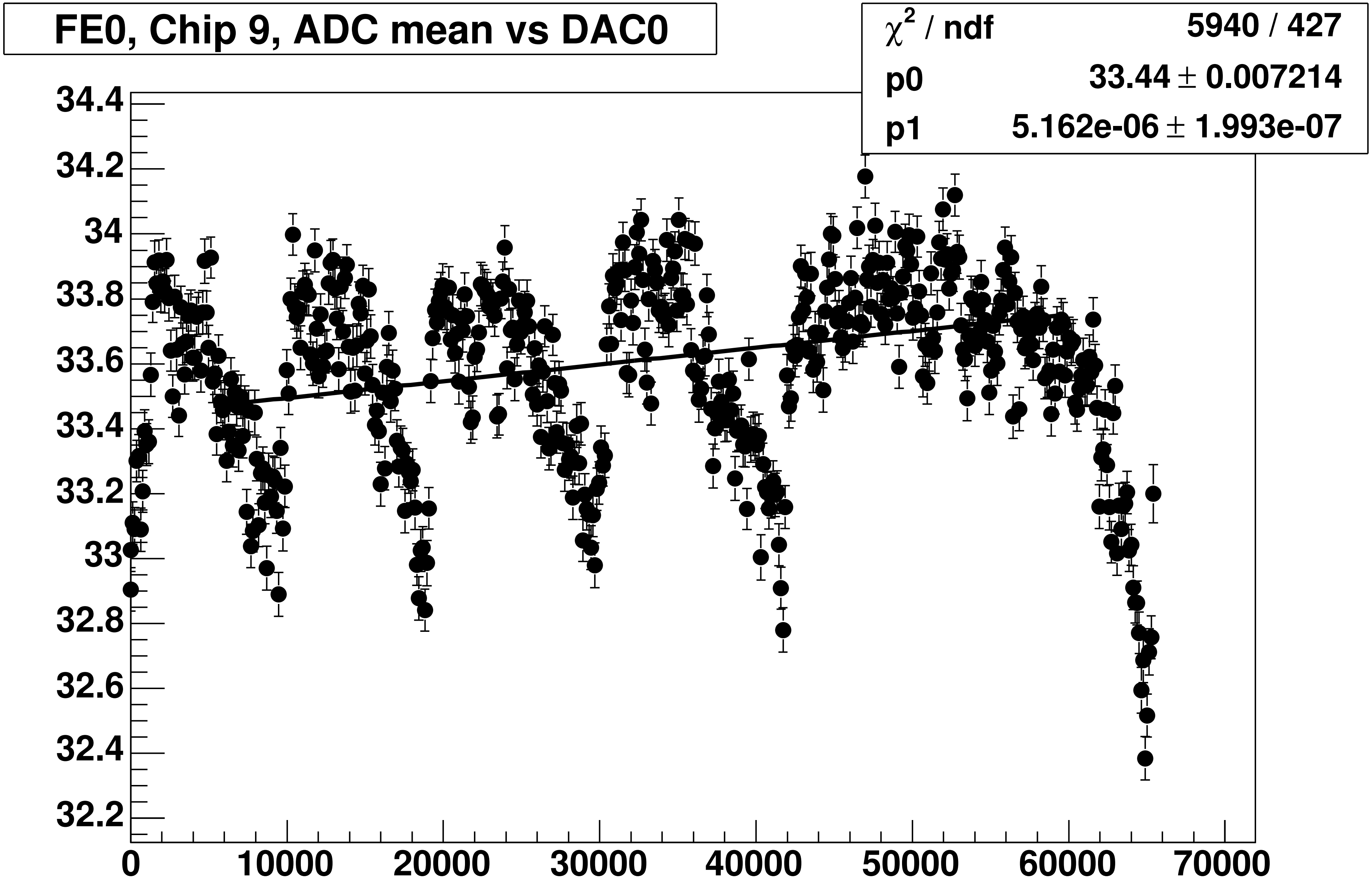


FE0, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 7.163e+04 / 427
p0 32.77 ± 0.01215
p1 0.4512 ± 3.791e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

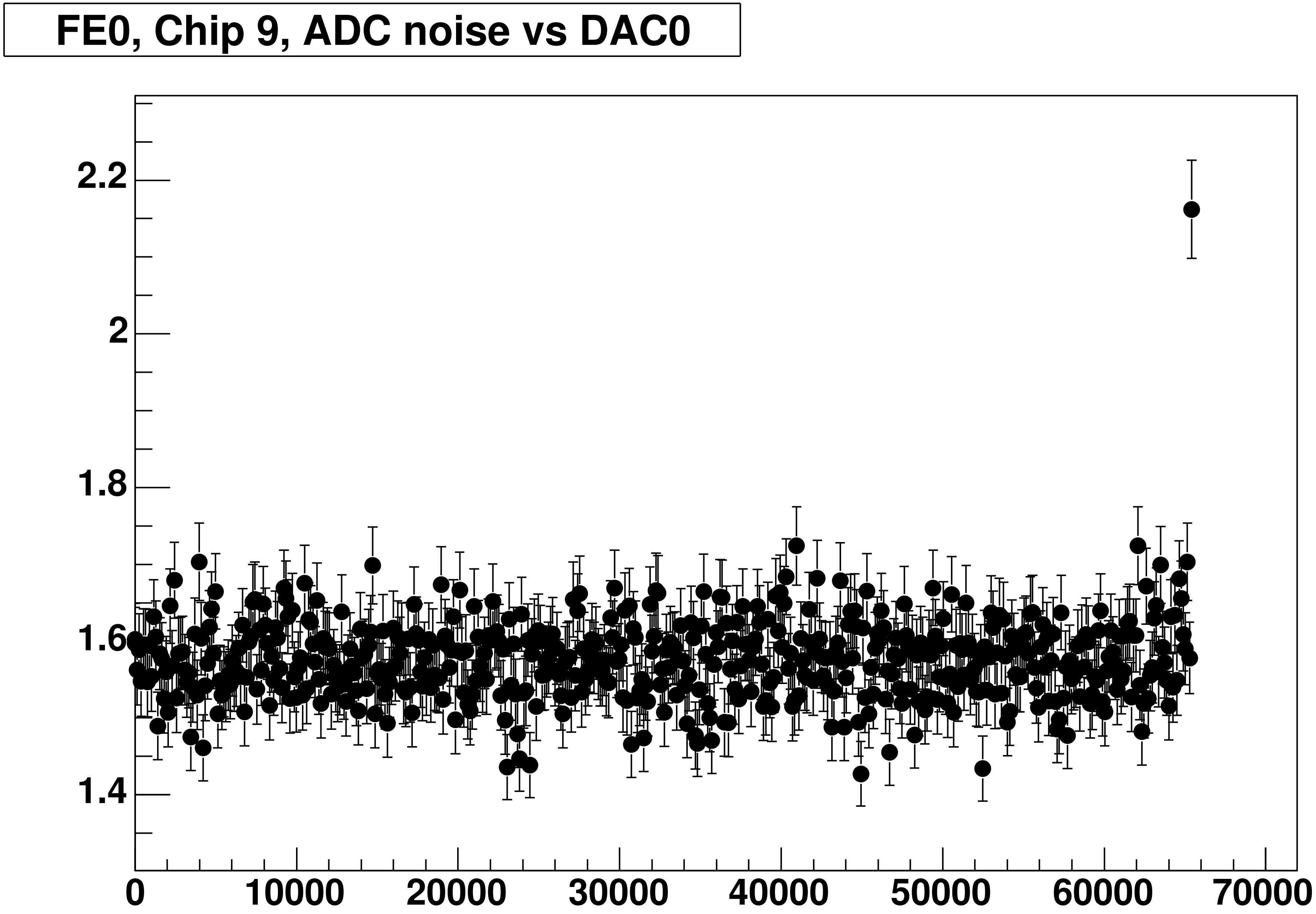

FE0, Chip 8, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000

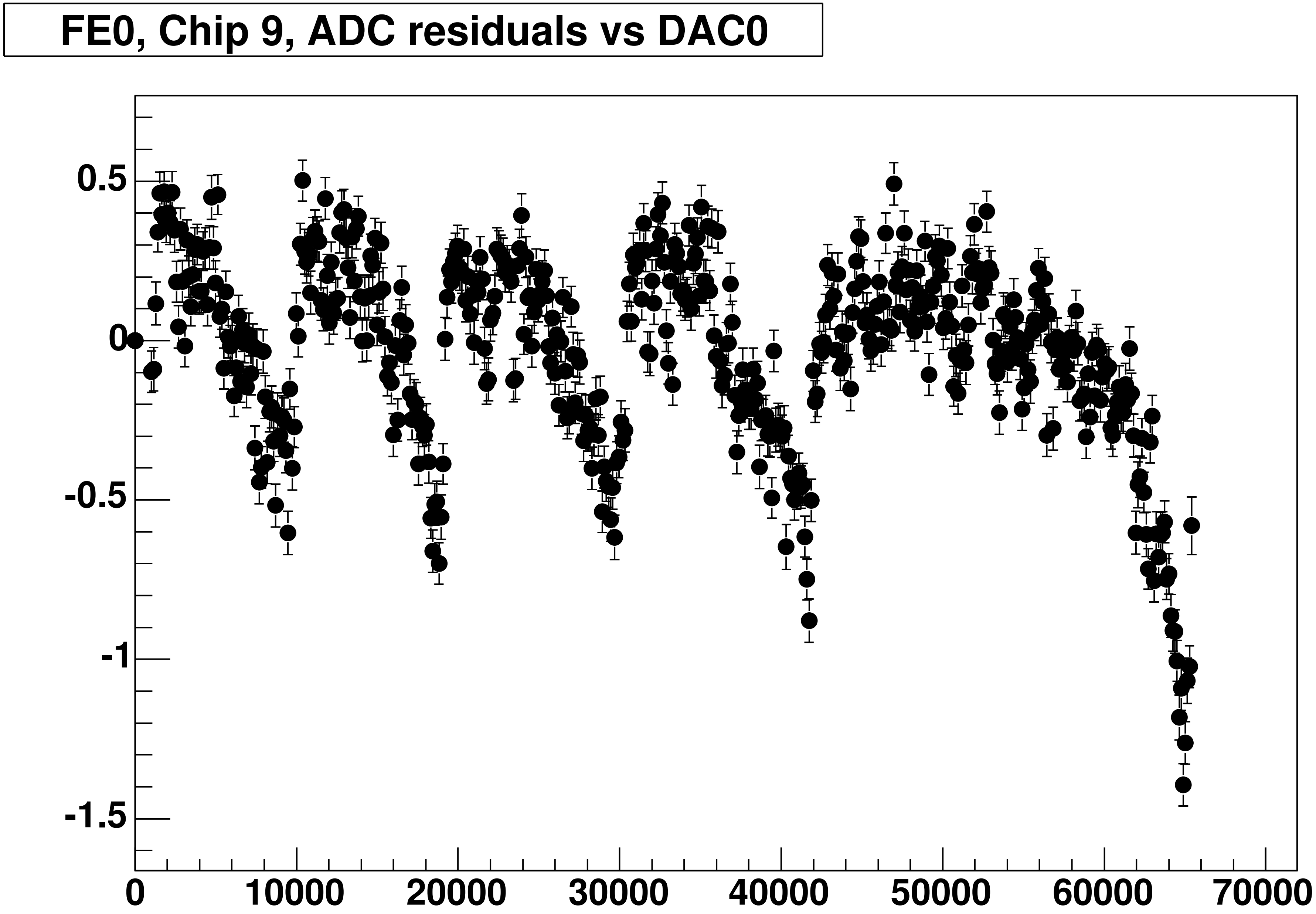


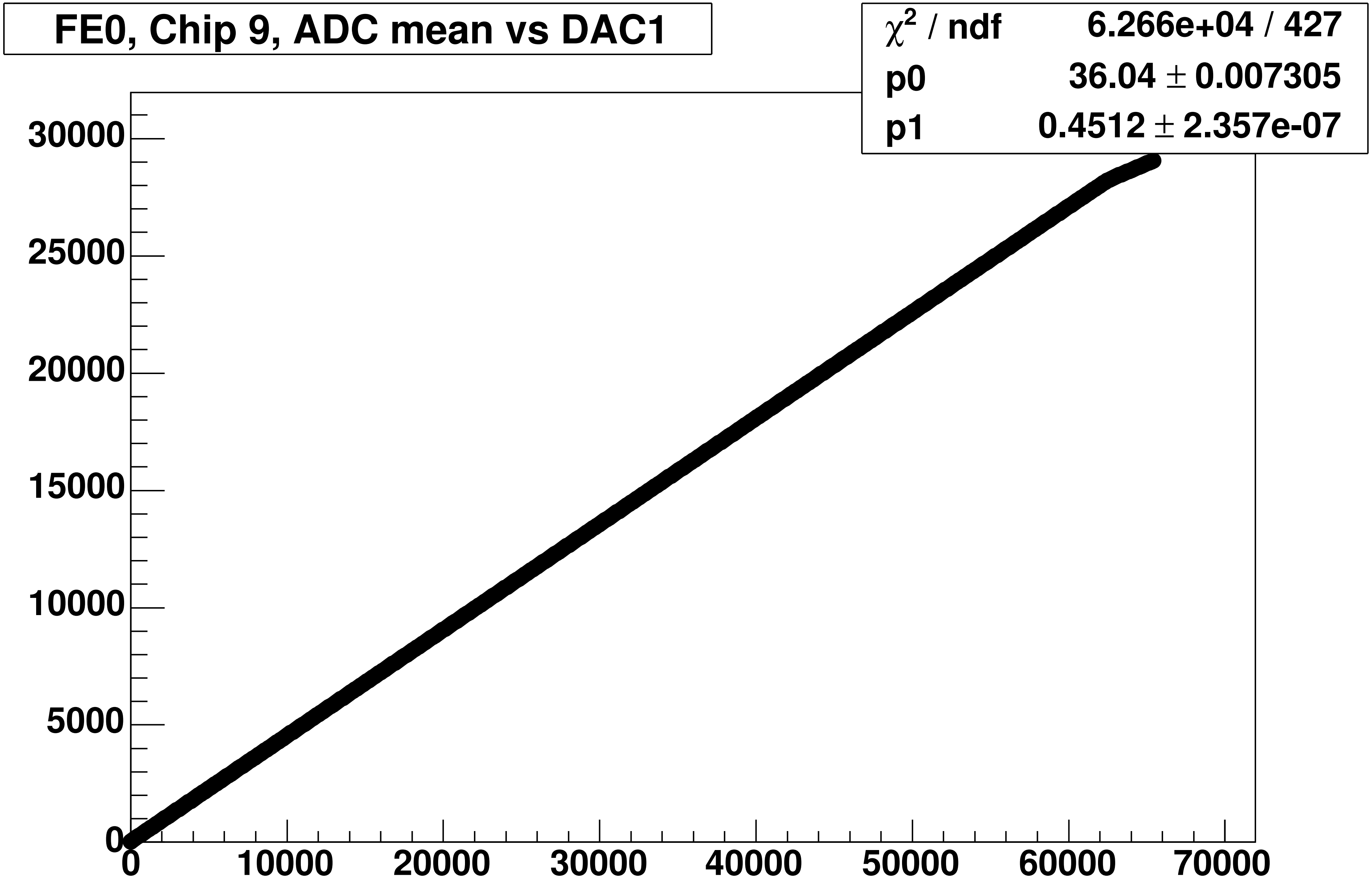
FE0, Chip 8, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000

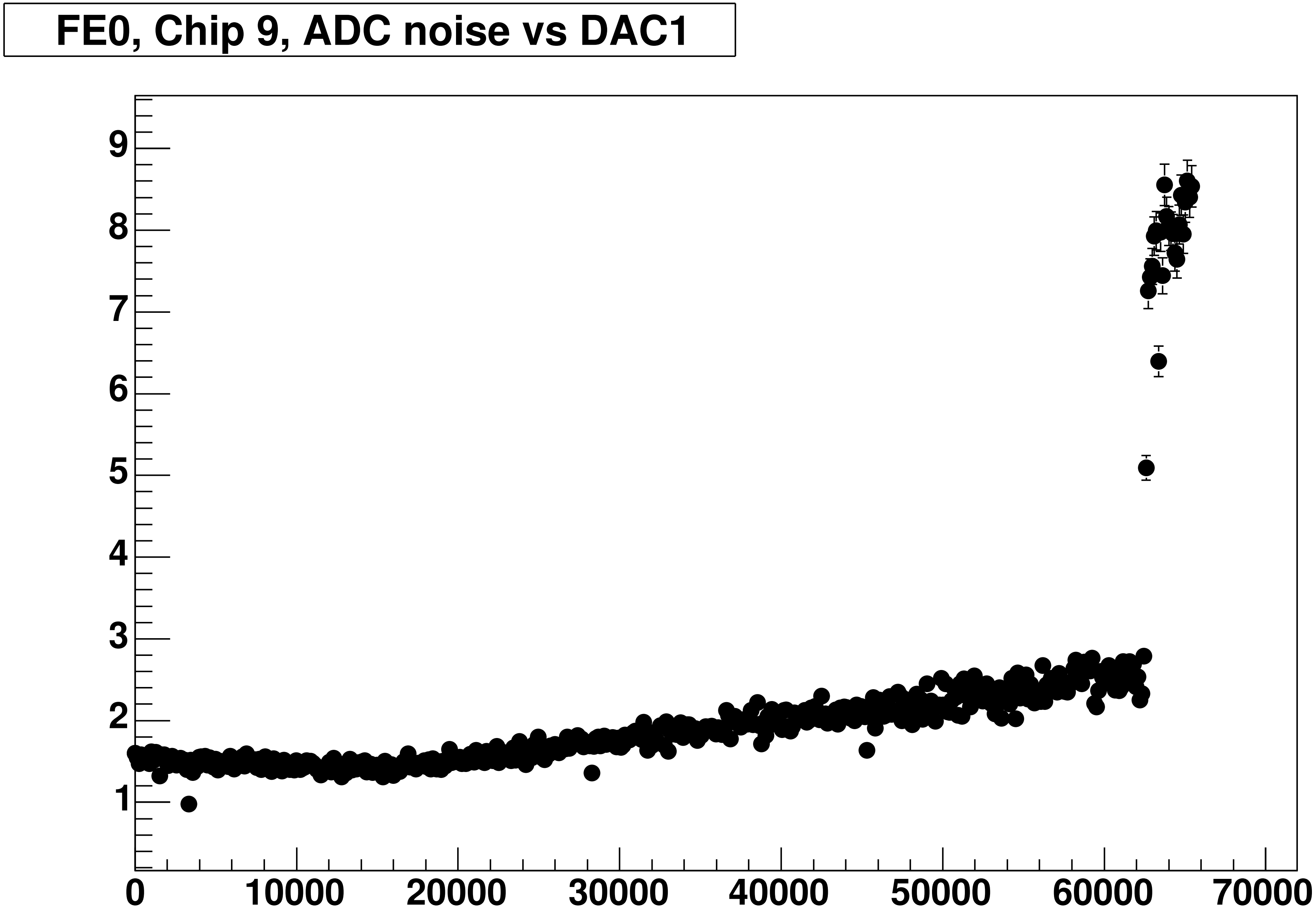


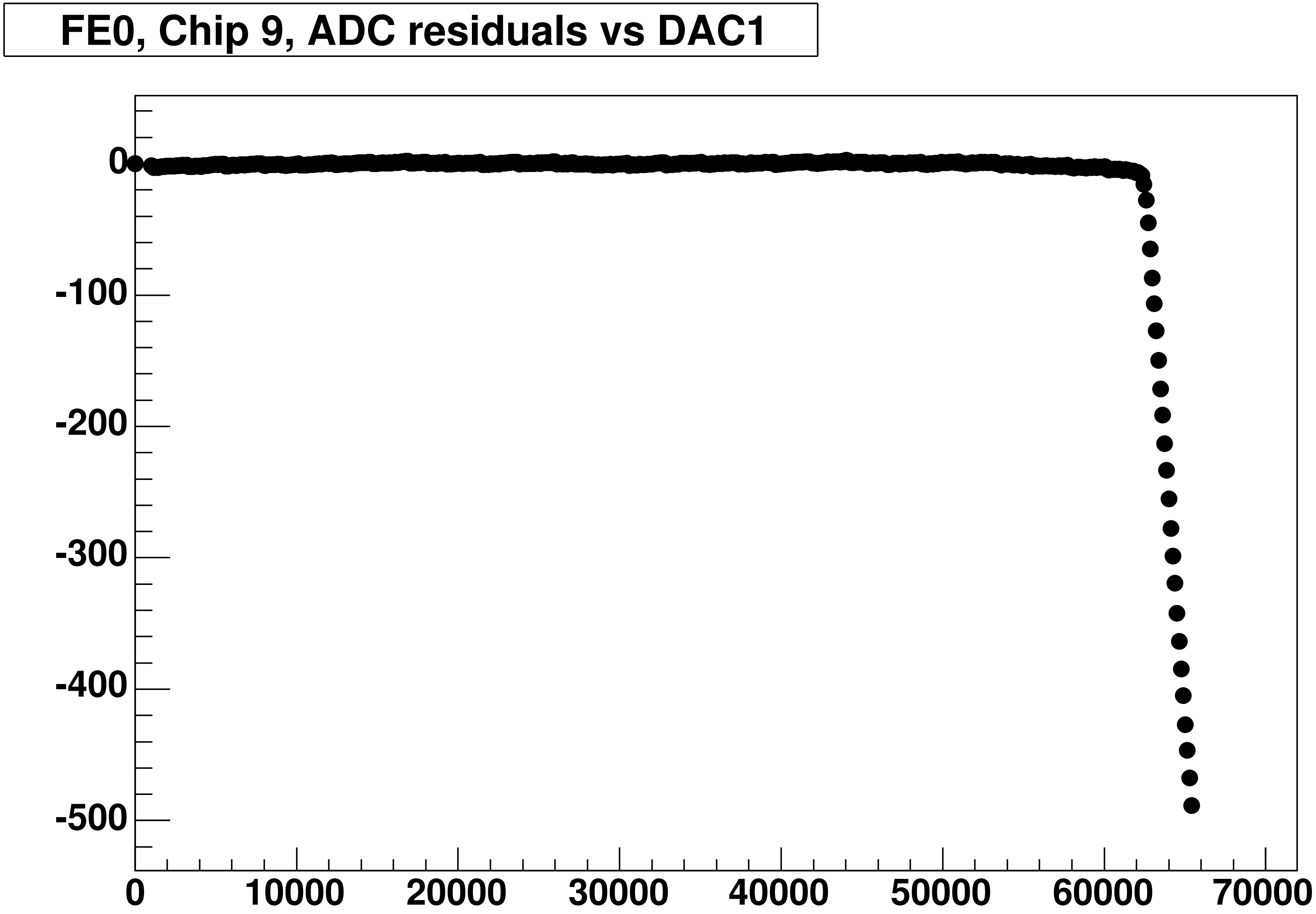
FE0, Chip 9, ADC mean vs DAC0
χ² / ndf 5940 / 427
p0 33.44 ± 0.007214
p1 5.162e-06 ± 1.993e-07
34.4
34.2
34
33.8
33.6
33.4
33.2
33
32.8
32.6
32.4
32.2
0
10000
20000
30000
40000
50000
60000
70000

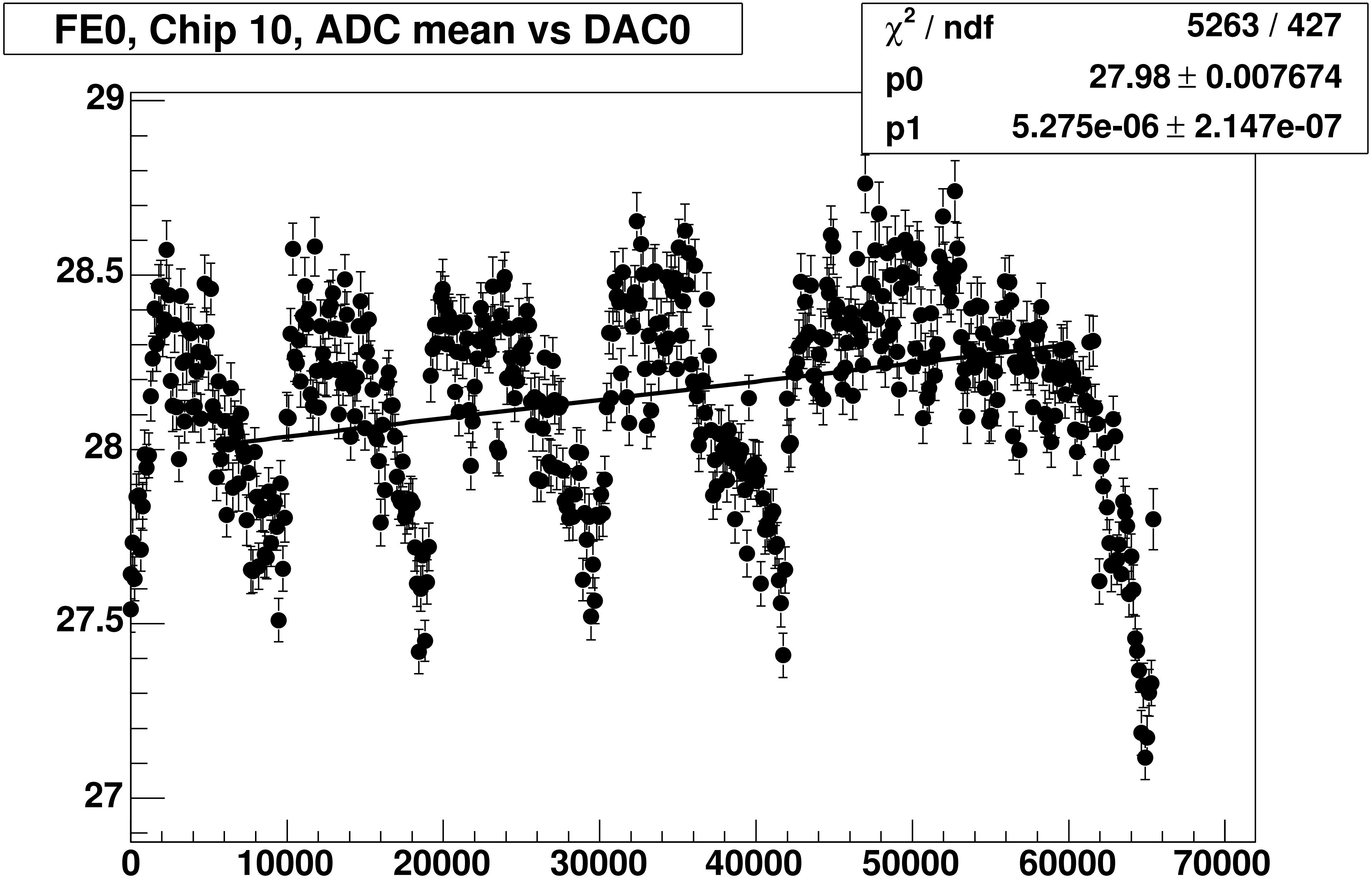

FE0, Chip 9, ADC noise vs DAC0
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000
70000


FE0, Chip 9, ADC residuals vs DAC0
0.5
0
-0.5
-1
-1.5
0
10000
20000
30000
40000
50000
60000
70000

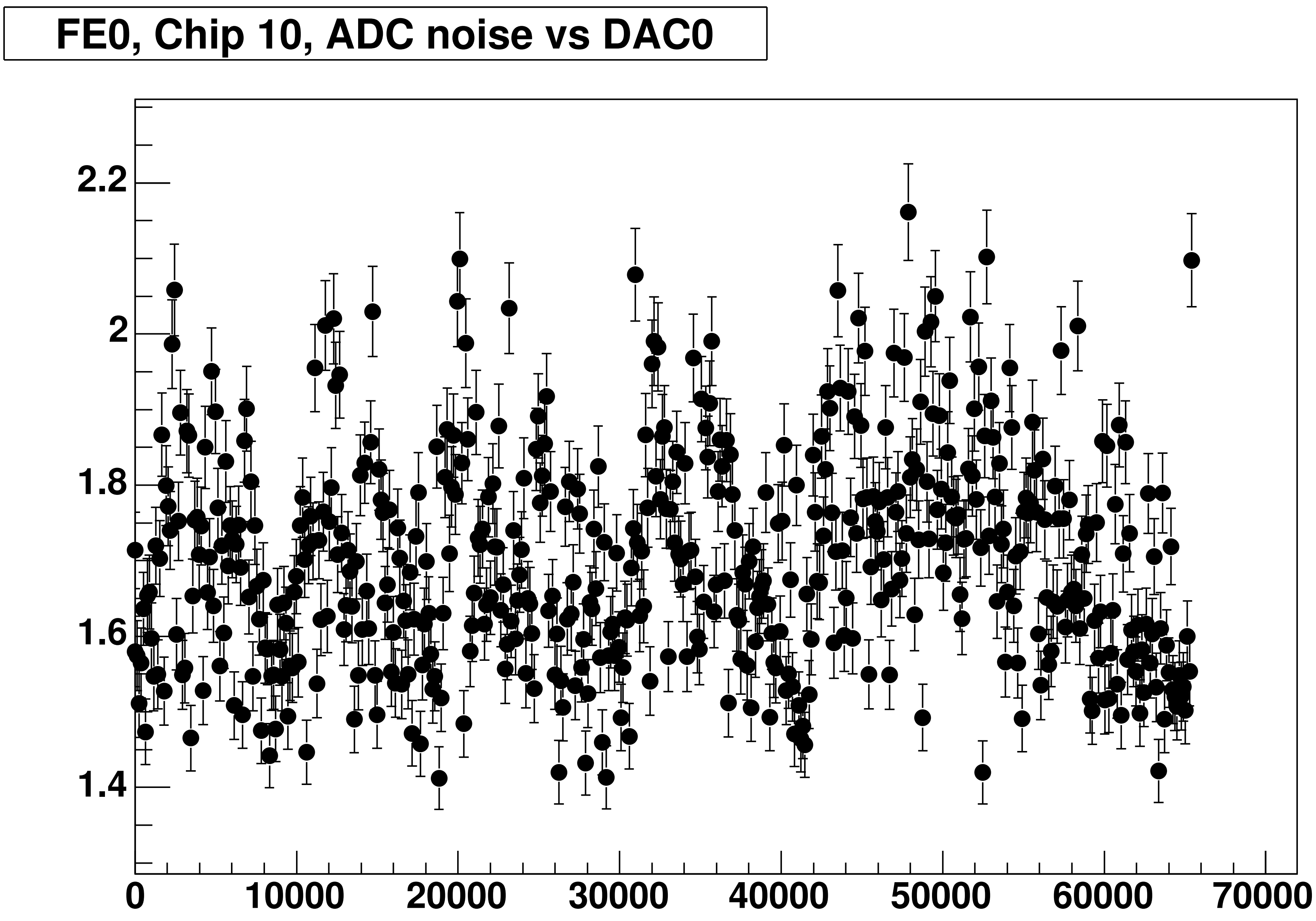

FE0, Chip 9, ADC mean vs DAC1
χ² / ndf 6.266e+04 / 427
p0 36.04 ± 0.007305
p1 0.4512 ± 2.357e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

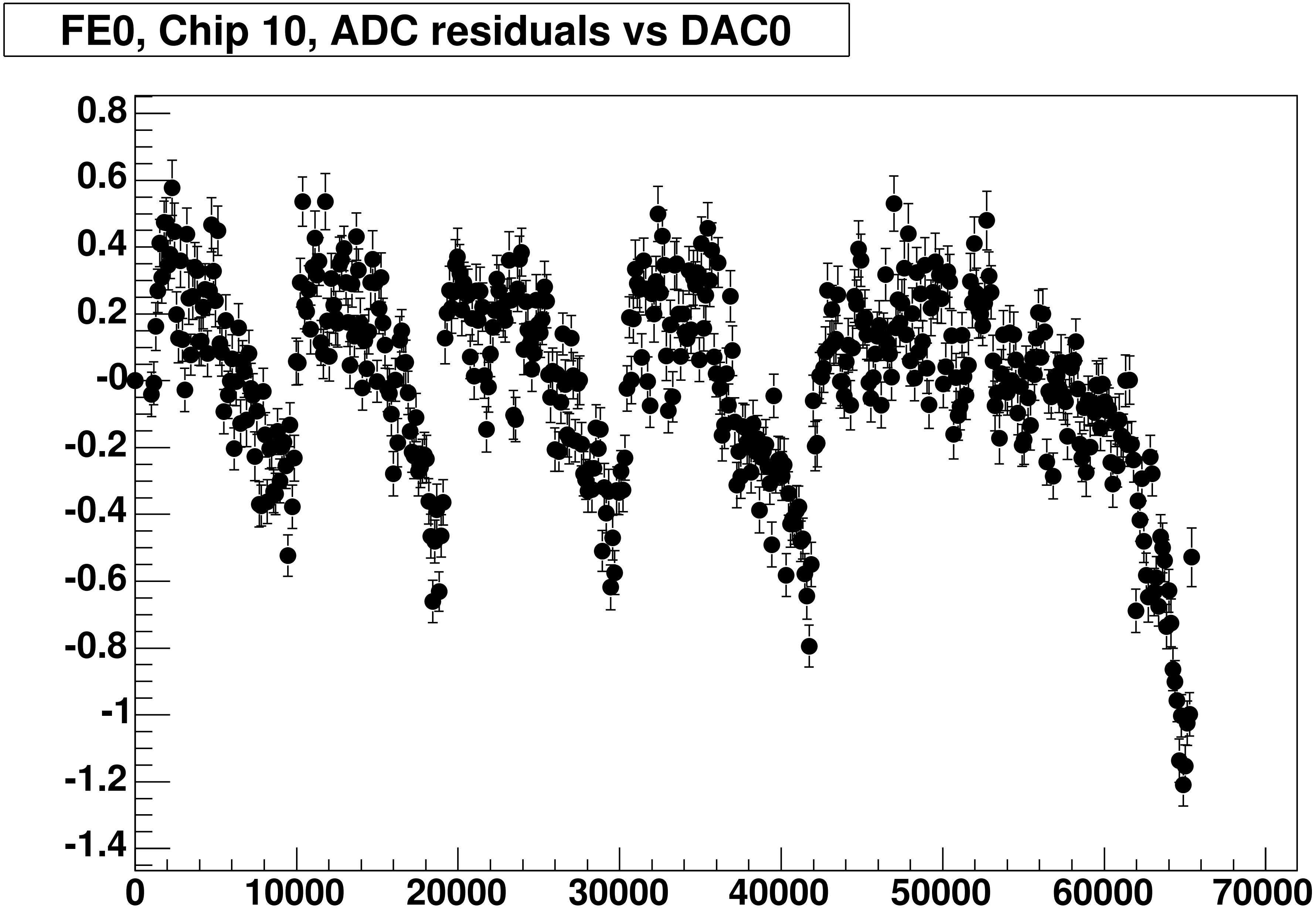

FE0, Chip 9, ADC noise vs DAC1
1
2
3
4
5
6
7
8
9
0
10000
20000
30000
40000
50000
60000
70000

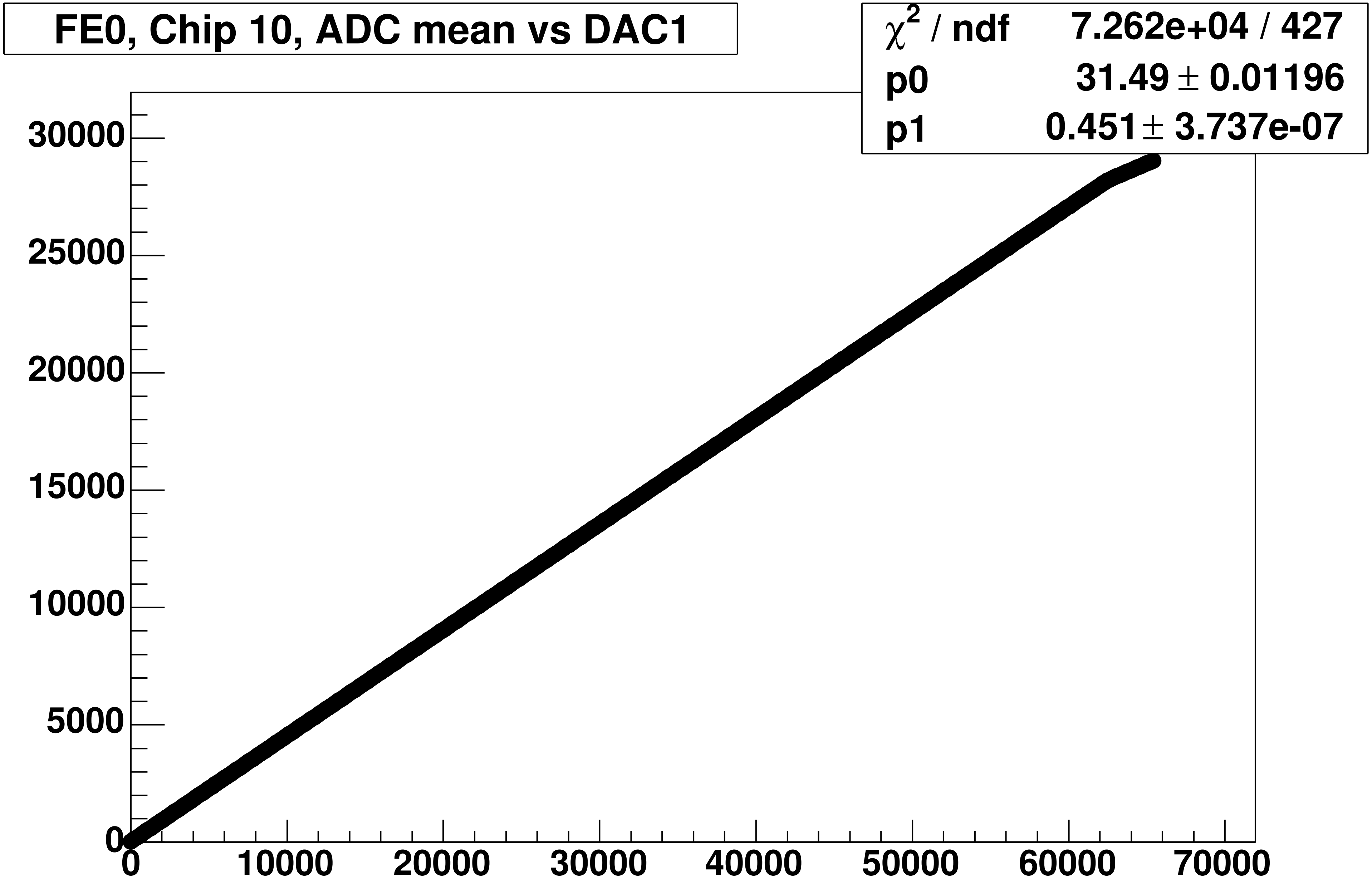

FE0, Chip 9, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000



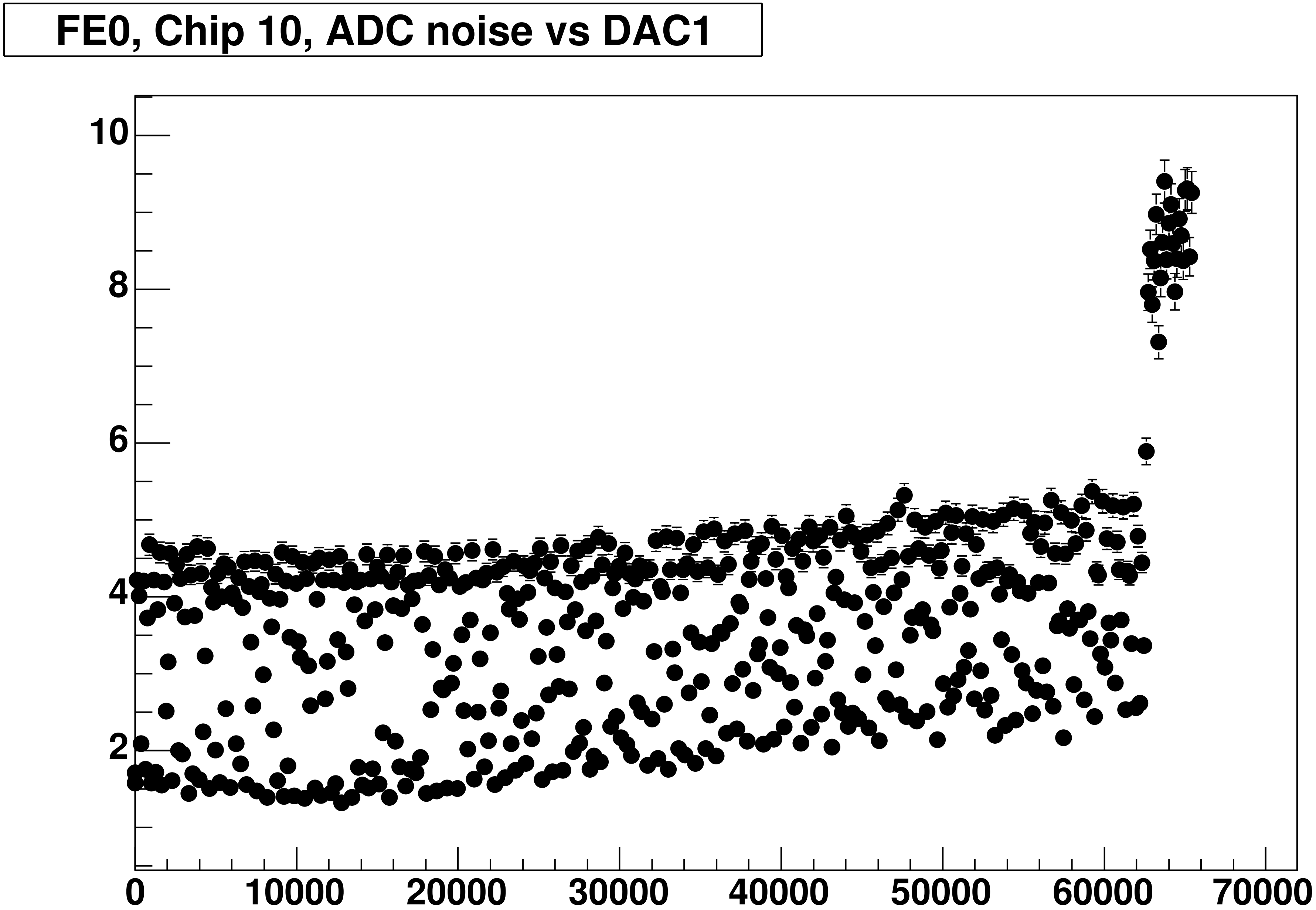
FE0, Chip 10, ADC mean vs DAC0
χ² / ndf 5263 / 427
p0 27.98 ± 0.007674
p1 5.275e-06 ± 2.147e-07
29
28.5
28
27.5
27
0
10000
20000
30000
40000
50000
60000
70000


FE0, Chip 10, ADC noise vs DAC0
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000
70000

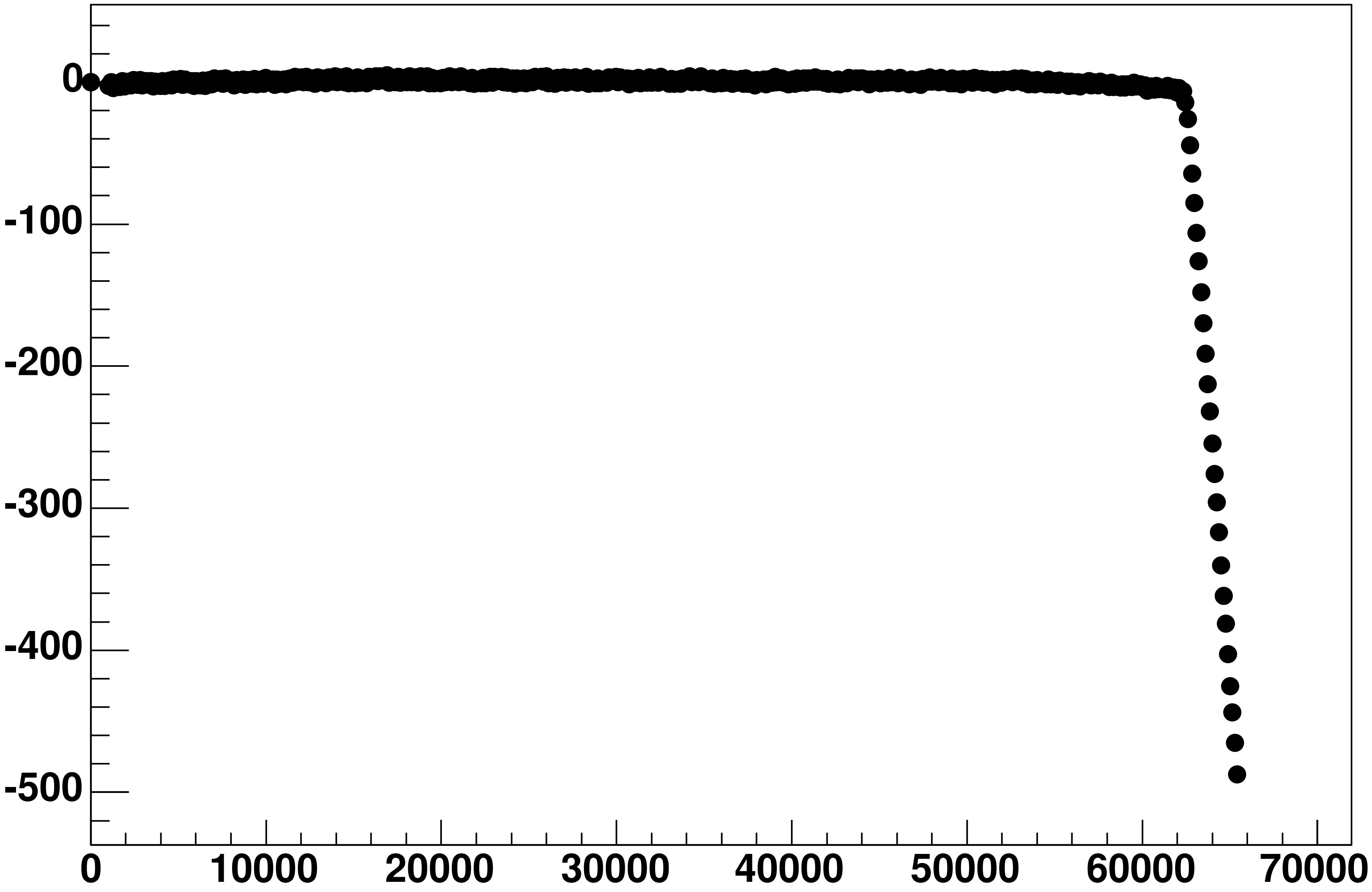

FE0, Chip 10, ADC residuals vs DAC0
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
0
10000
20000
30000
40000
50000
60000
70000

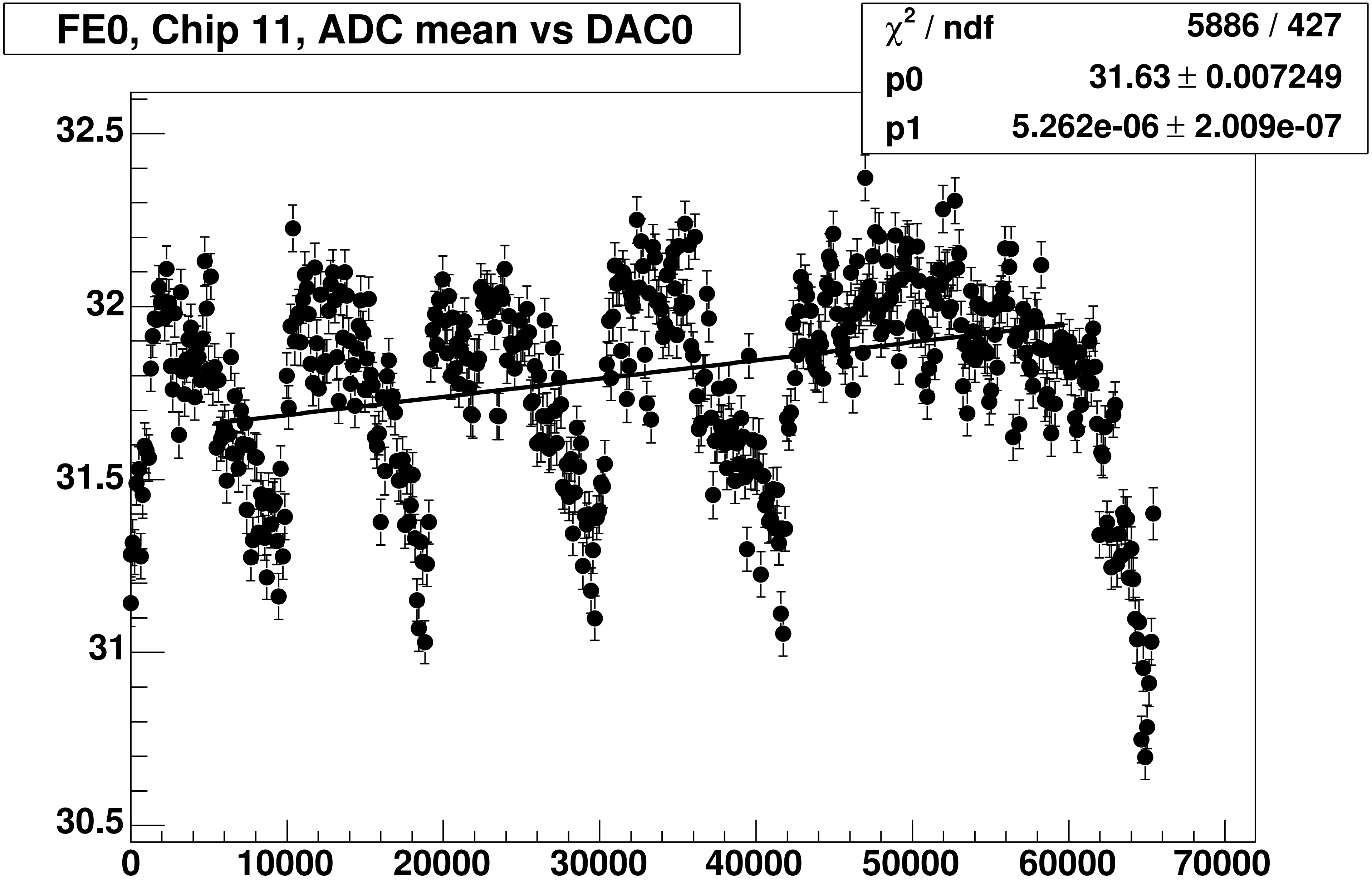


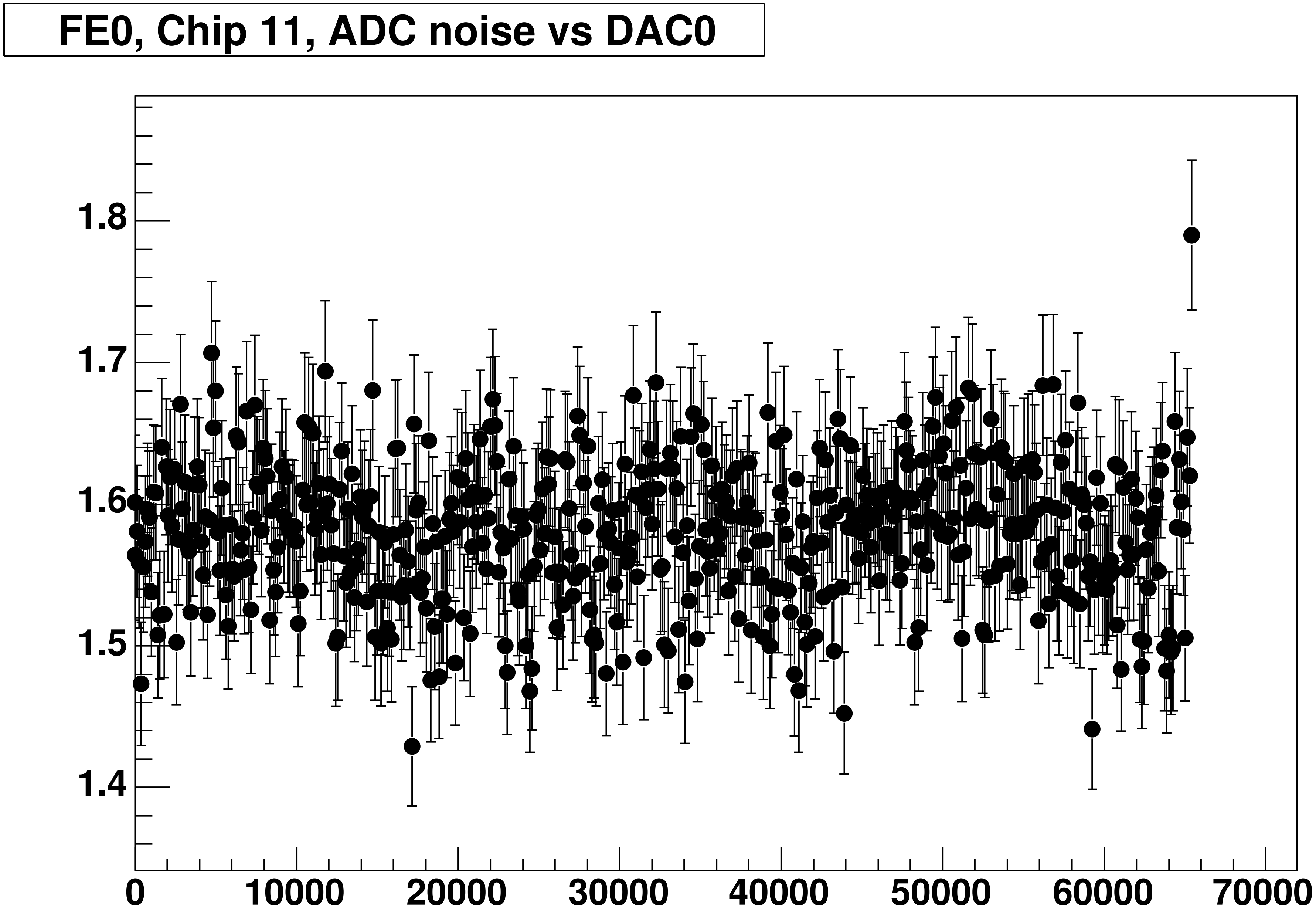
FE0, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 7.262e+04 / 427
p0 31.49 ± 0.01196
p1 0.451 ± 3.737e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

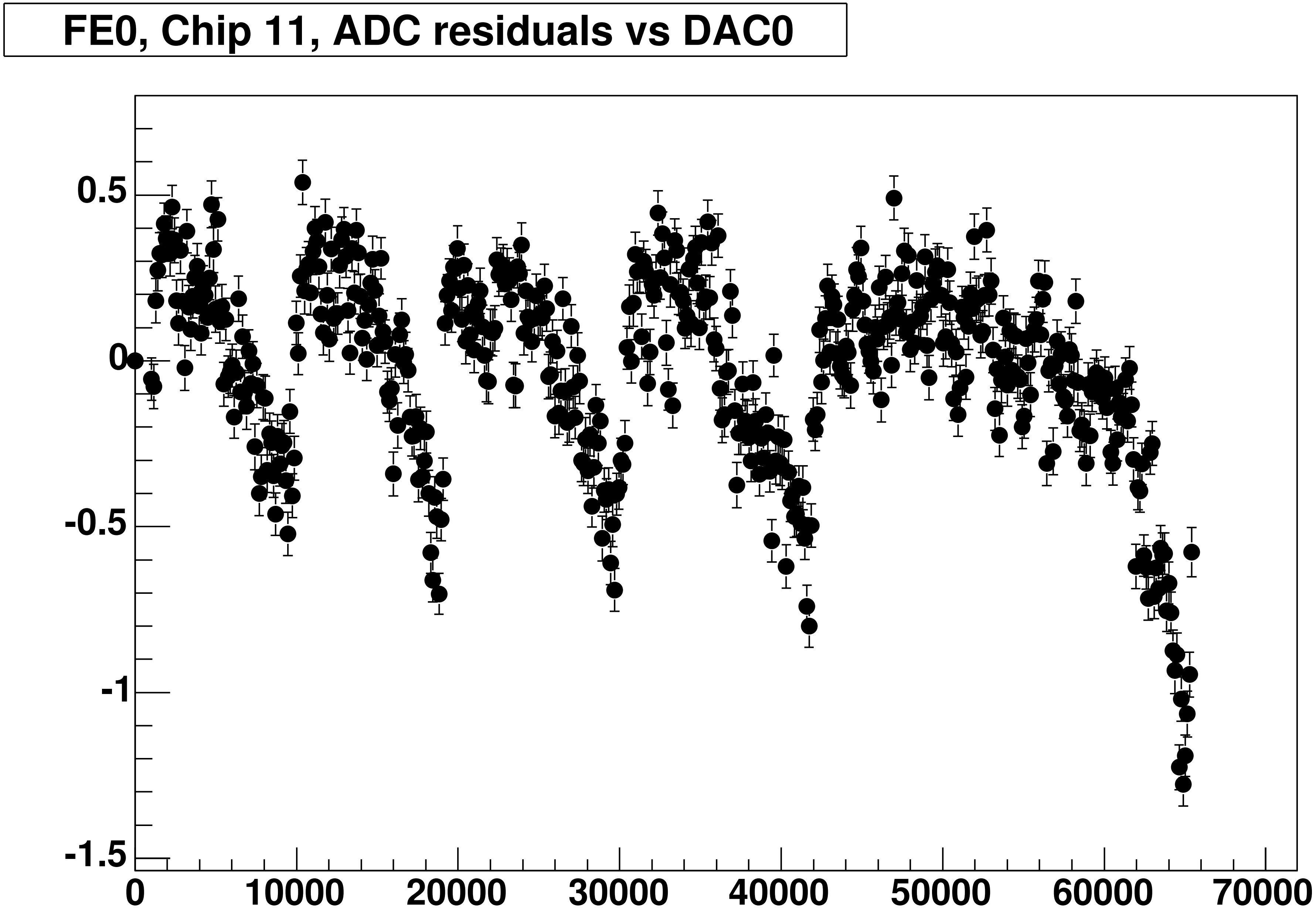

FE0, Chip 10, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000

FE0, Chip 10, ADC residuals vs DAC1

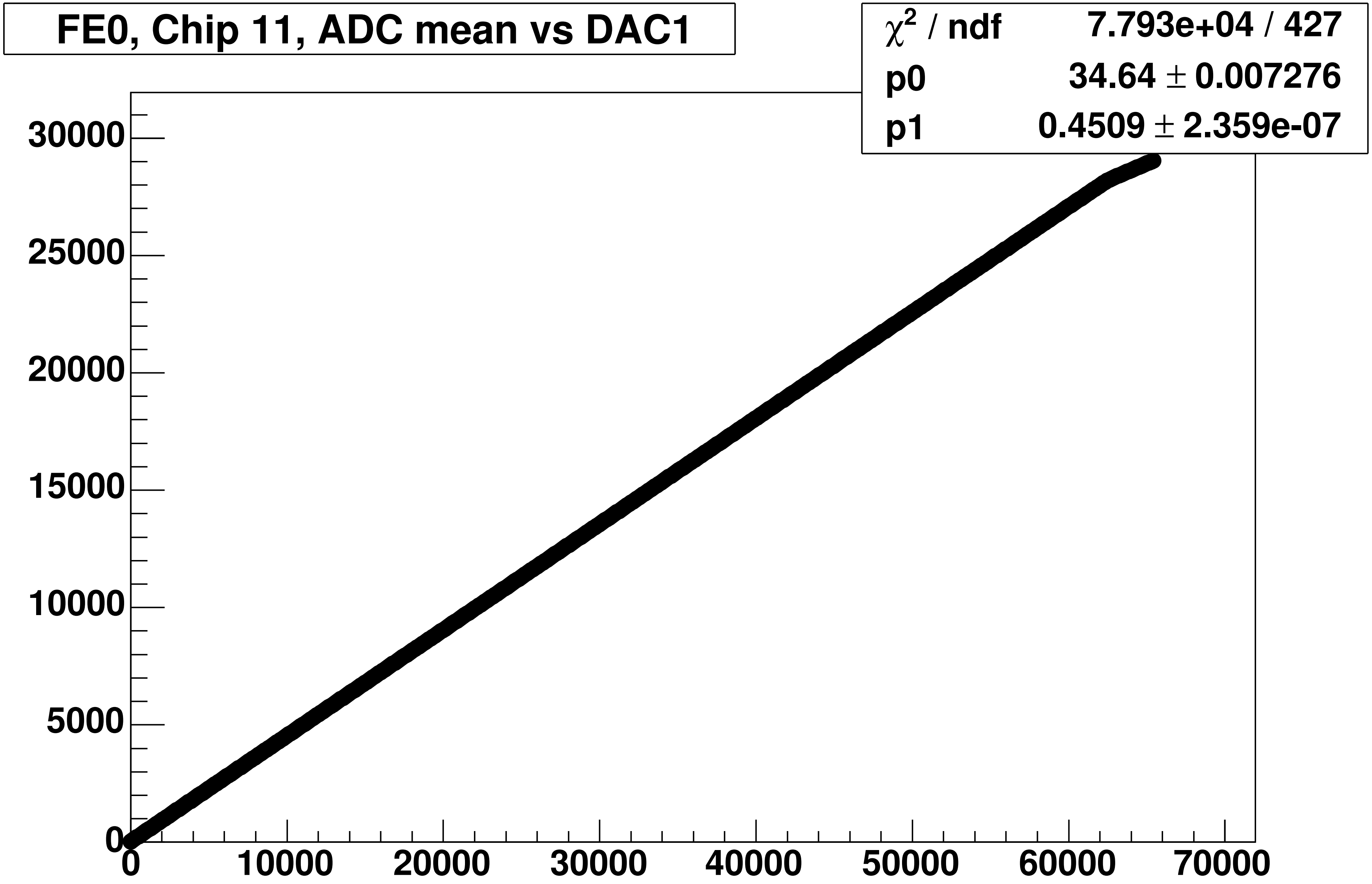



FE0, Chip 11, ADC mean vs DAC0
χ² / ndf 5886 / 427
p0 31.63 ± 0.007249
p1 5.262e-06 ± 2.009e-07
32.5
32
31.5
31
30.5
0
10000
20000
30000
40000
50000
60000
70000

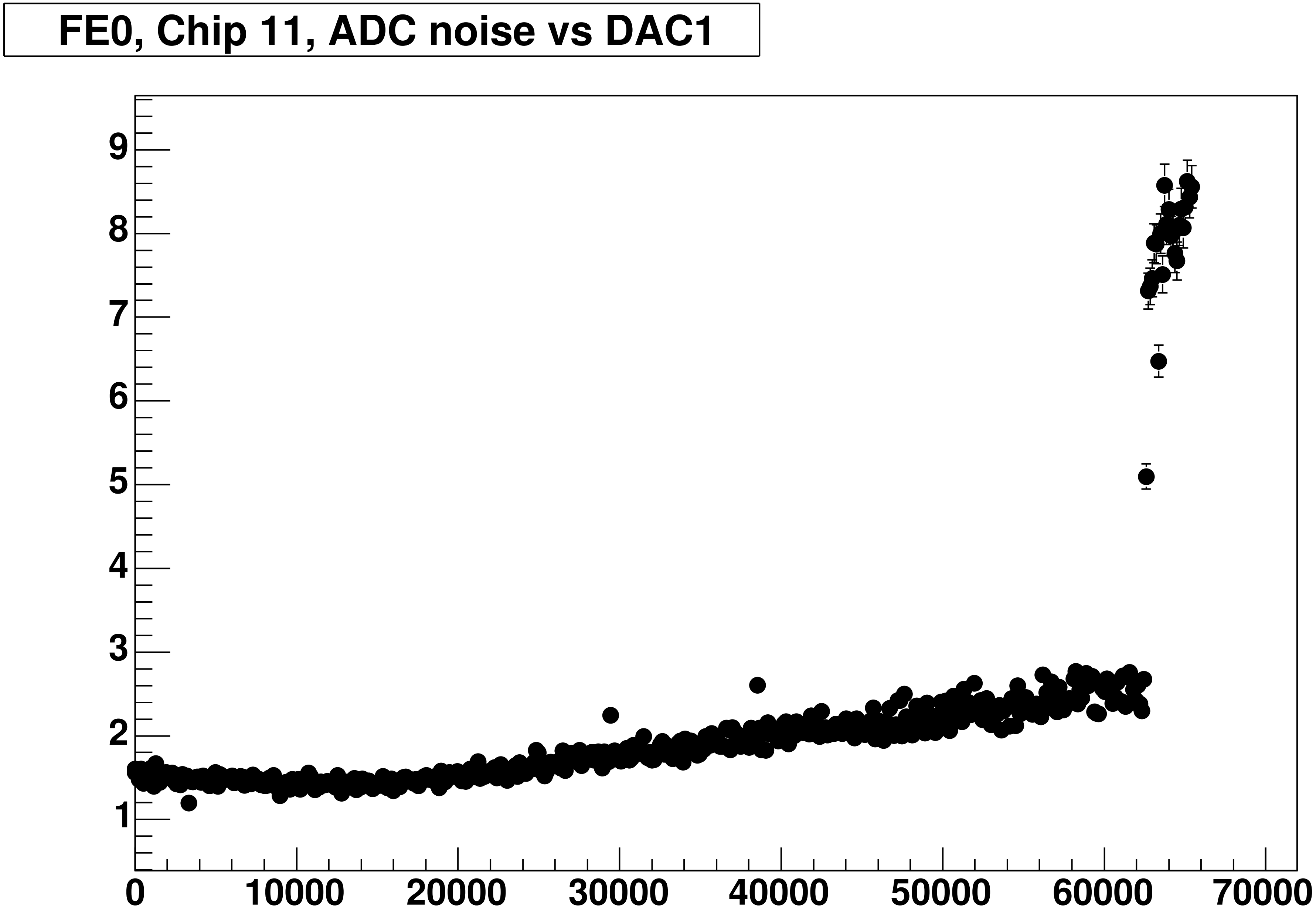

FE0, Chip 11, ADC noise vs DAC0
1.4
1.5
1.6
1.7
1.8
0
10000
20000
30000
40000
50000
60000
70000



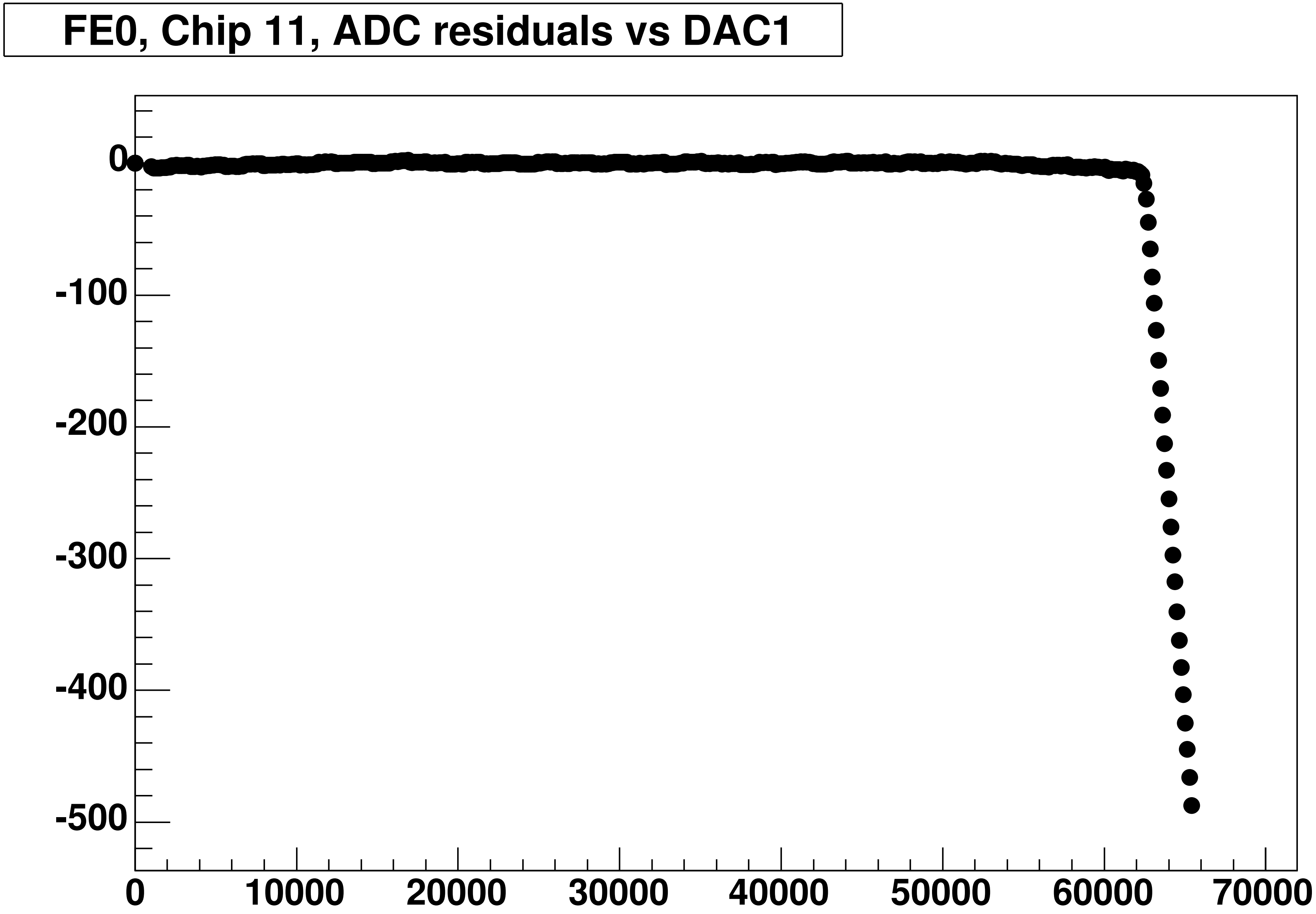
FE0, Chip 11, ADC residuals vs DAC0
0.5
0
-0.5
-1
-1.5
0
10000
20000
30000
40000
50000
60000
70000

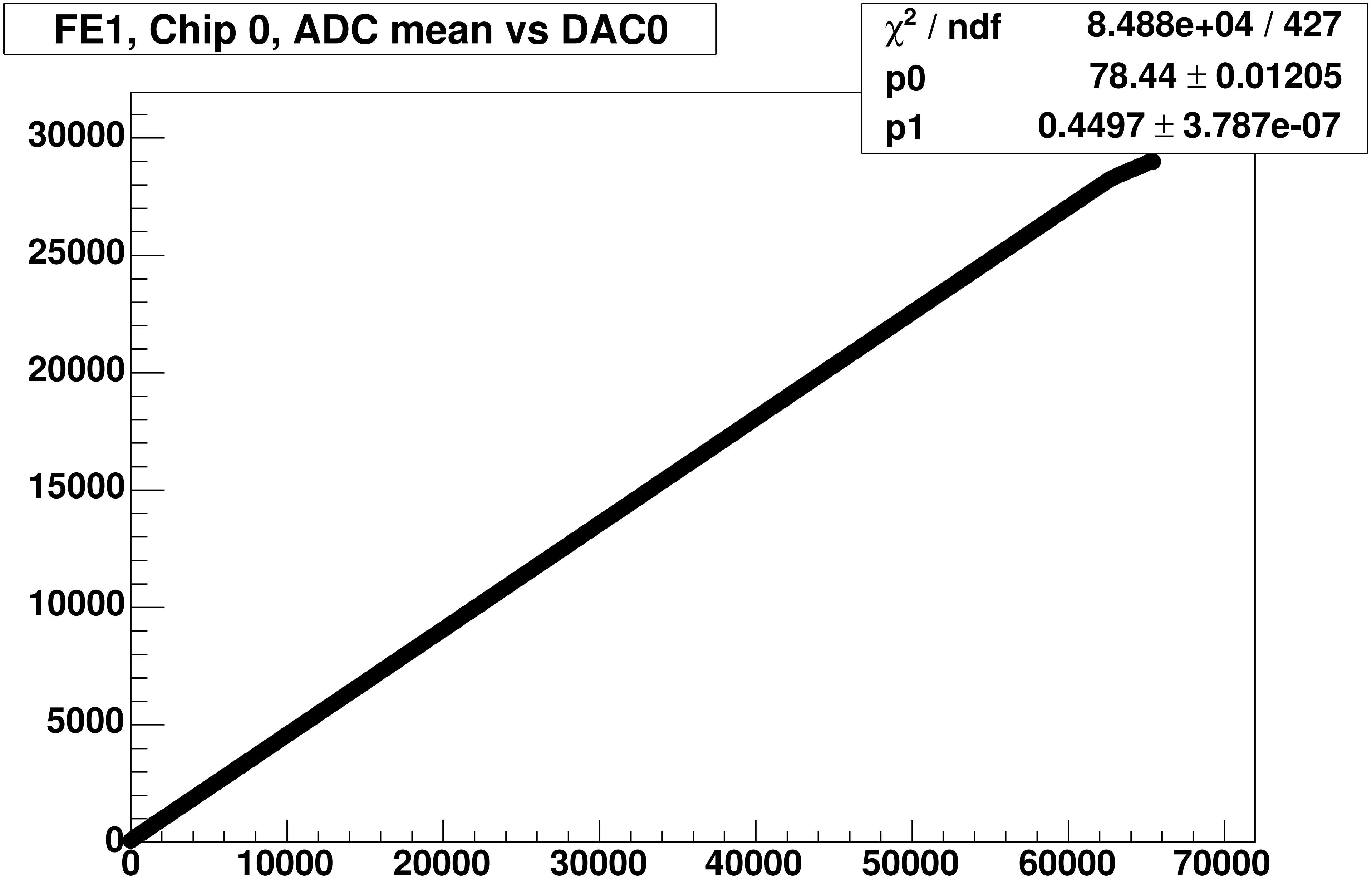


FE0, Chip 11, ADC mean vs DAC1
χ² / ndf 7.793e+04 / 427
p0 34.64 ± 0.007276
p1 0.4509 ± 2.359e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

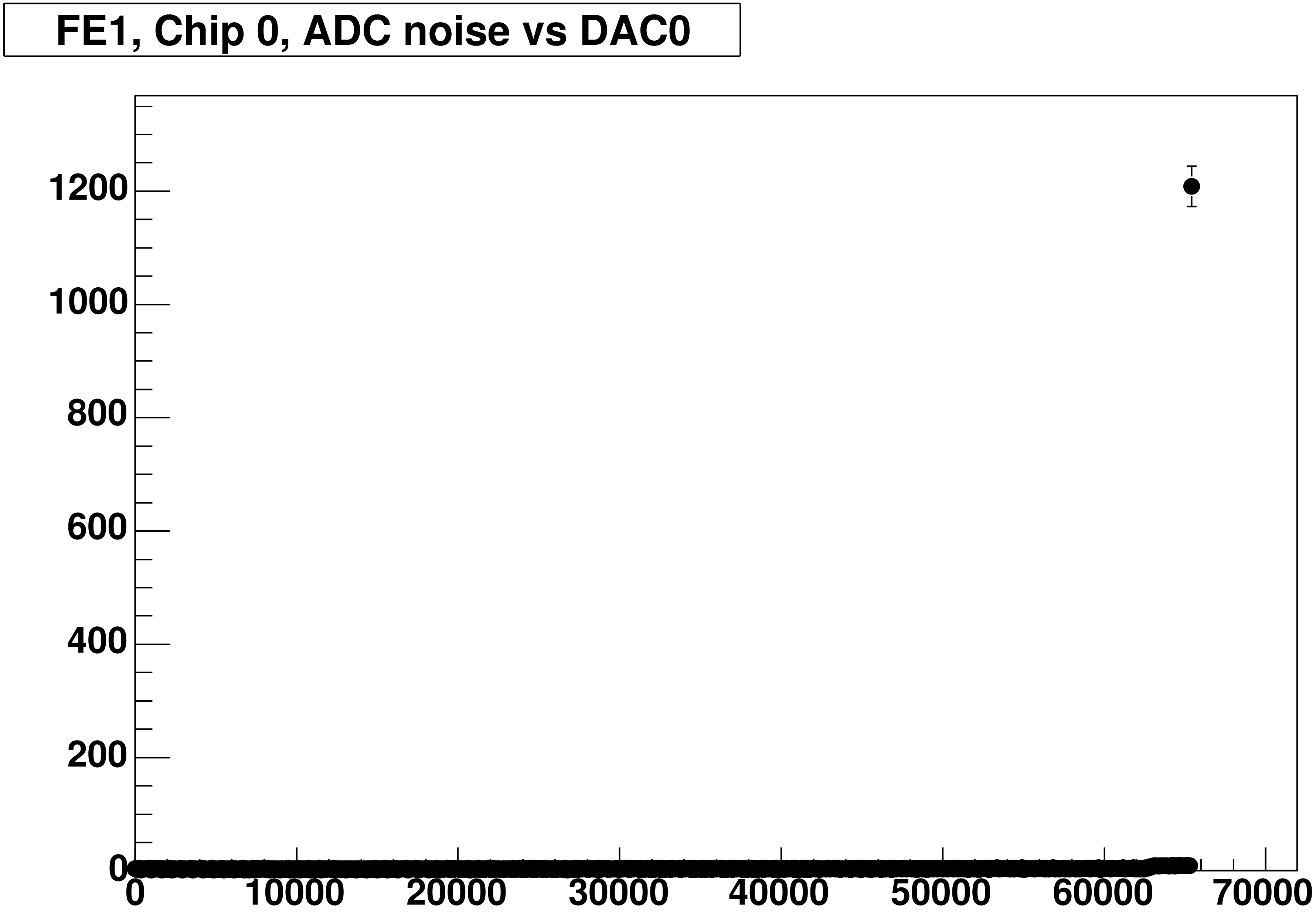


FE0, Chip 11, ADC noise vs DAC1
1
2
3
4
5
6
7
8
9
0
10000
20000
30000
40000
50000
60000
70000

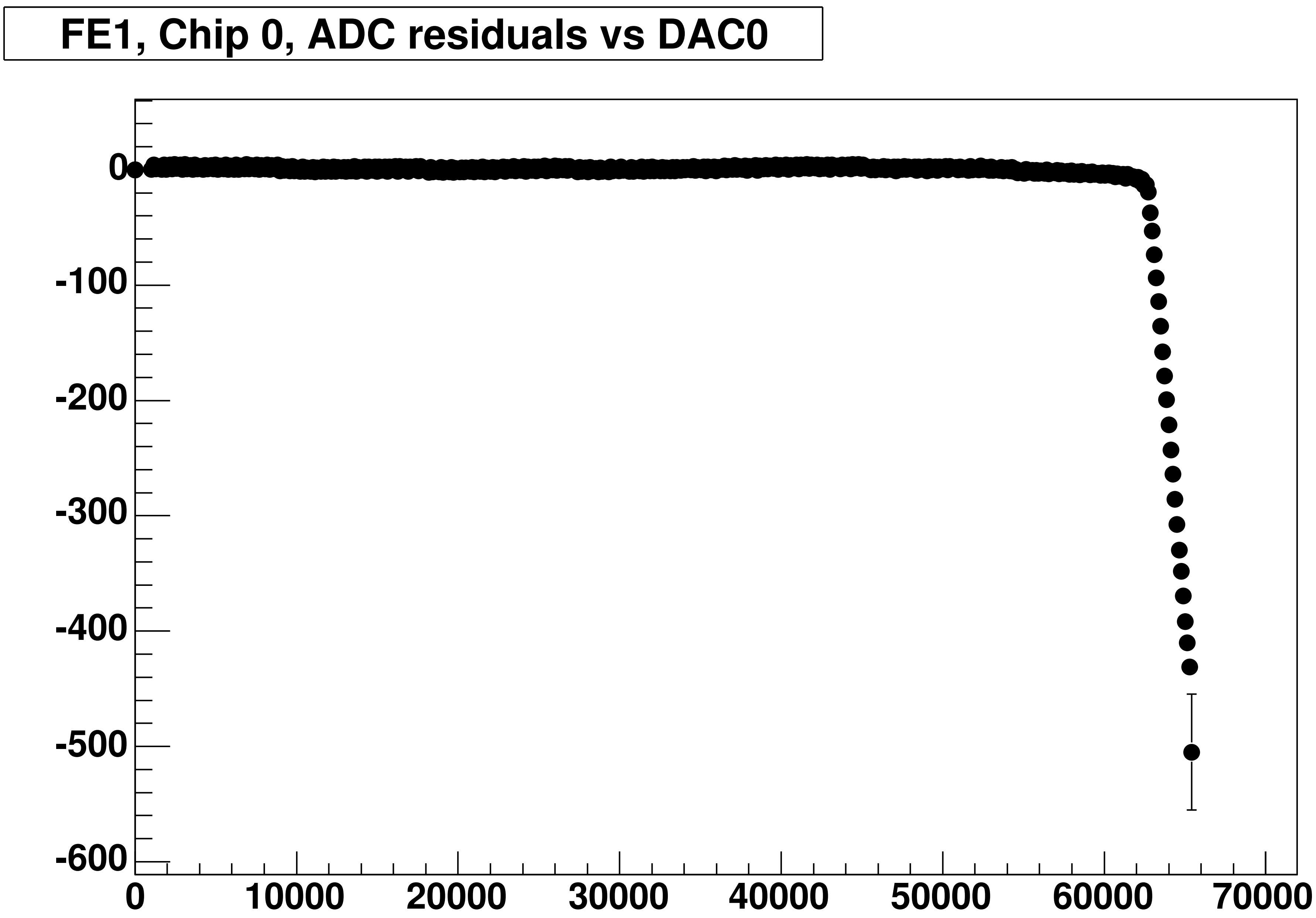

FE0, Chip 11, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000

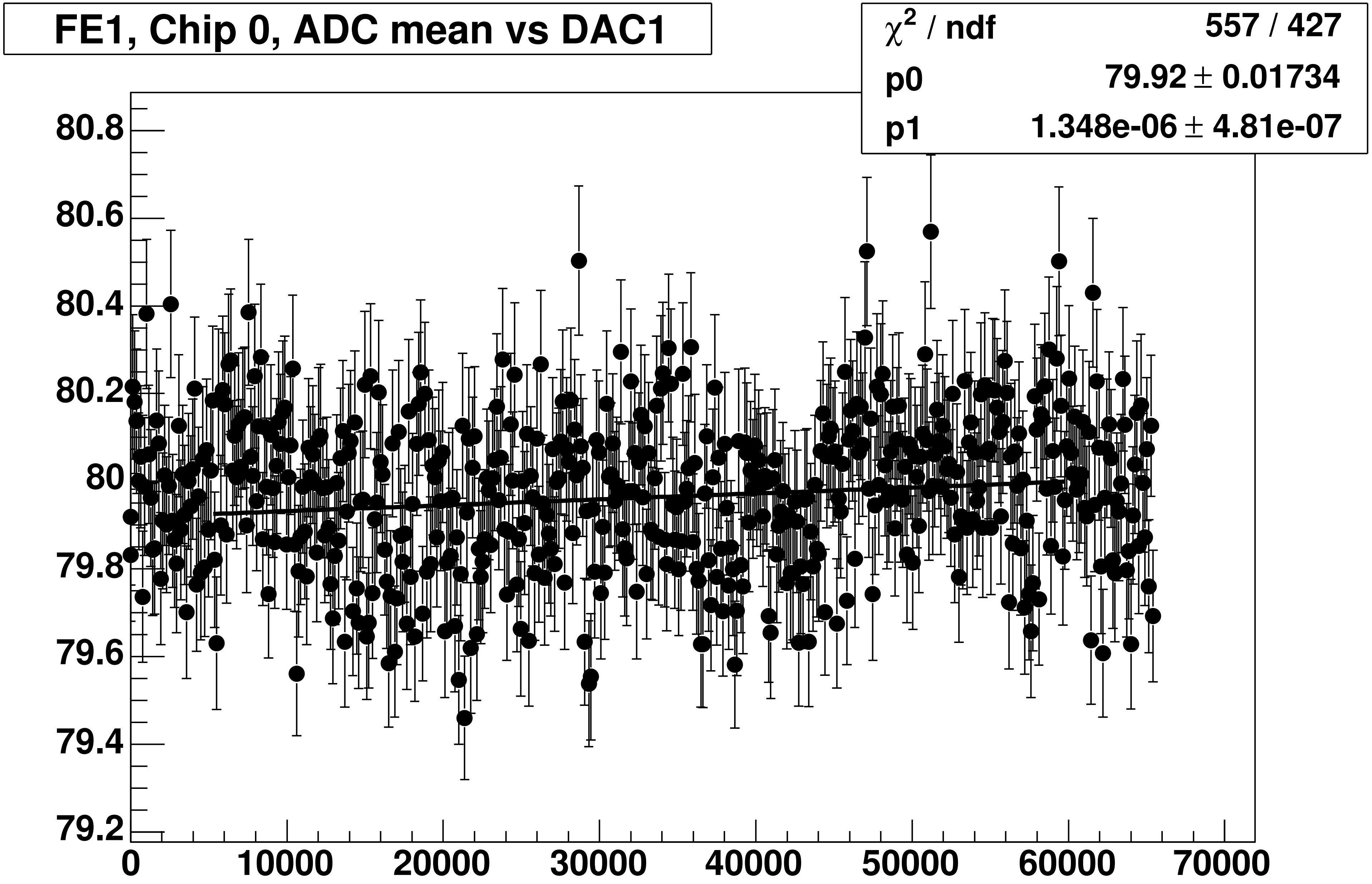


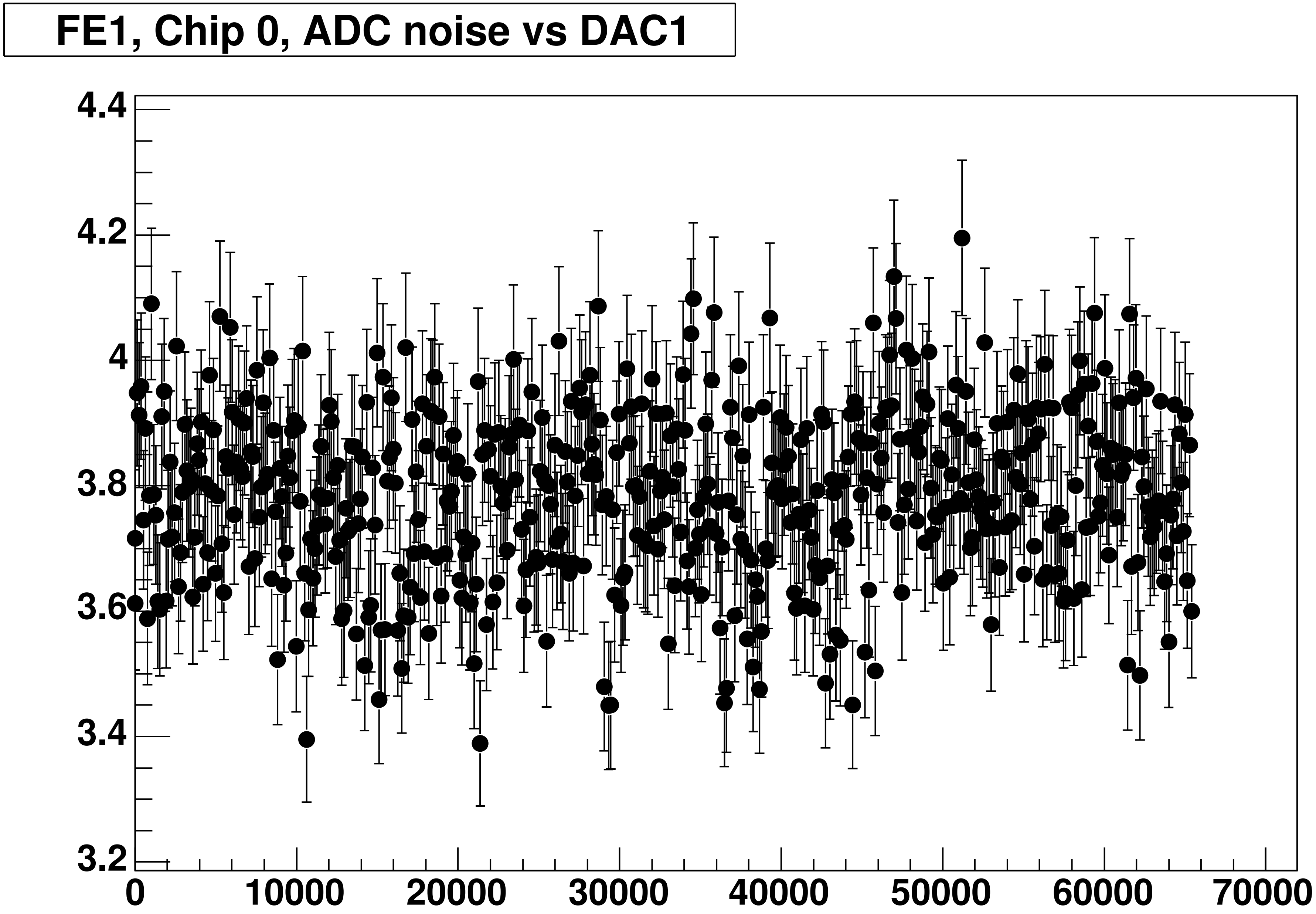
FE1, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 8.488e+04 / 427
p0 78.44 ± 0.01205
p1 0.4497 ± 3.787e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000



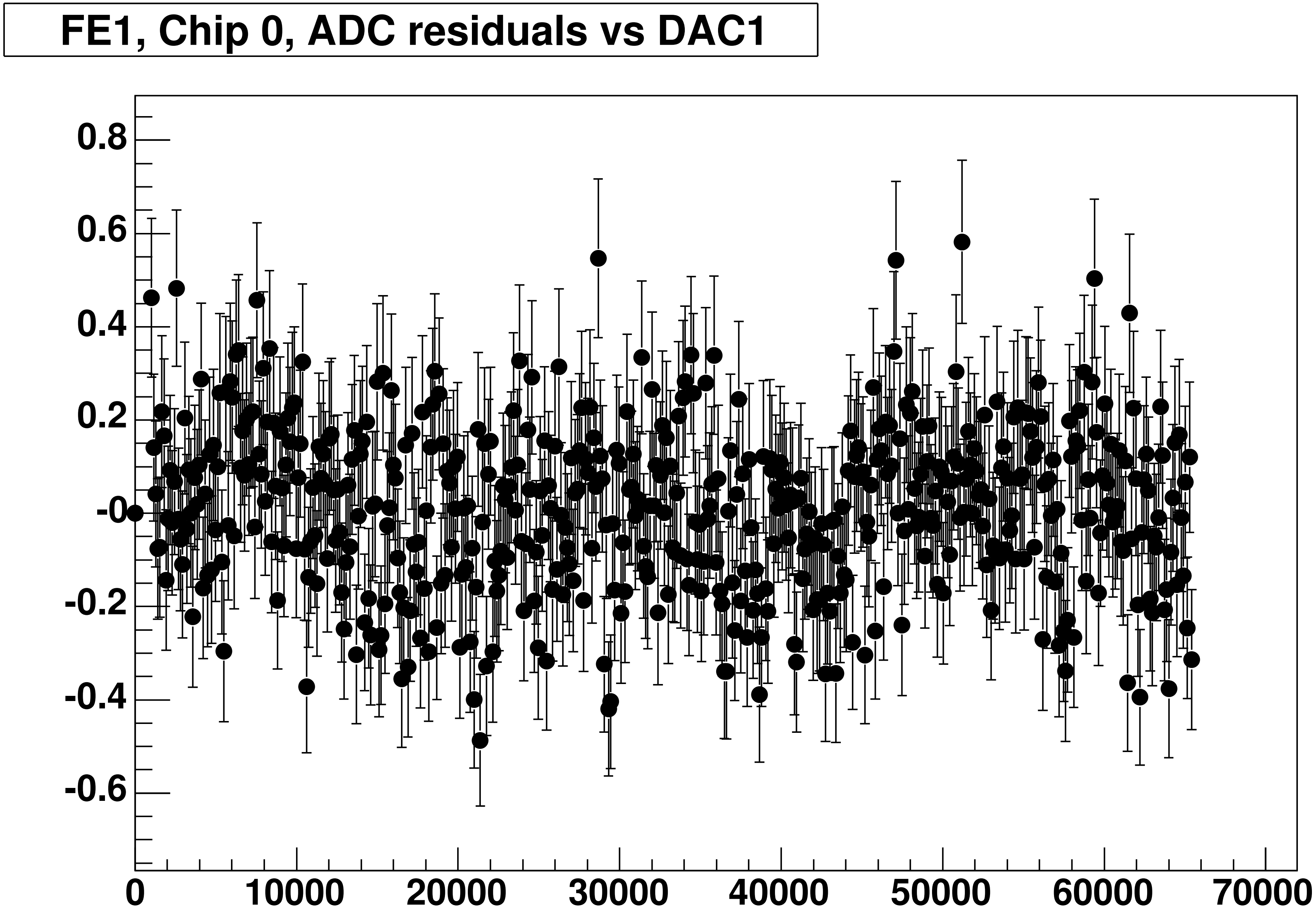
FE1, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000

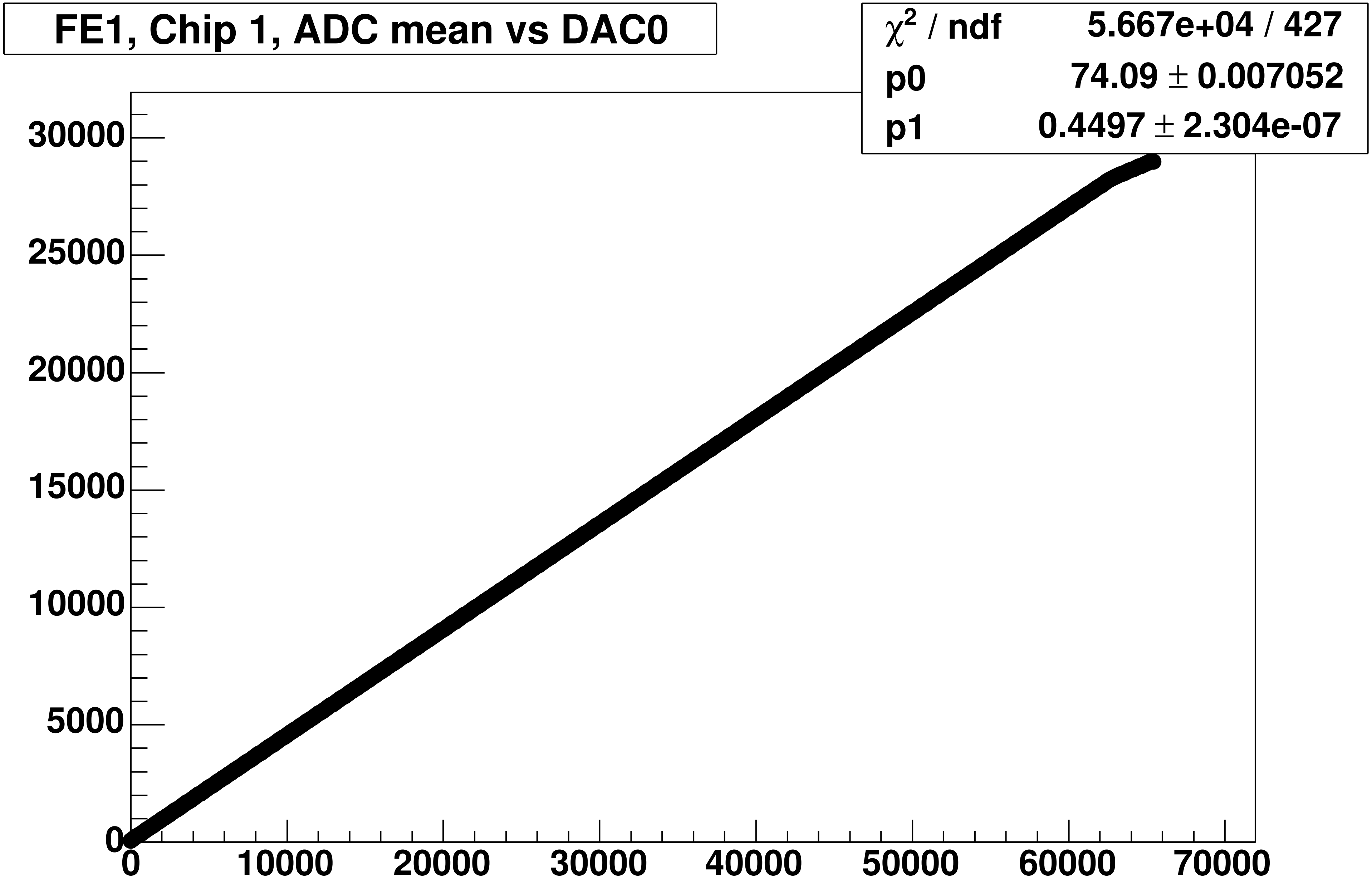

FE1, Chip 0, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

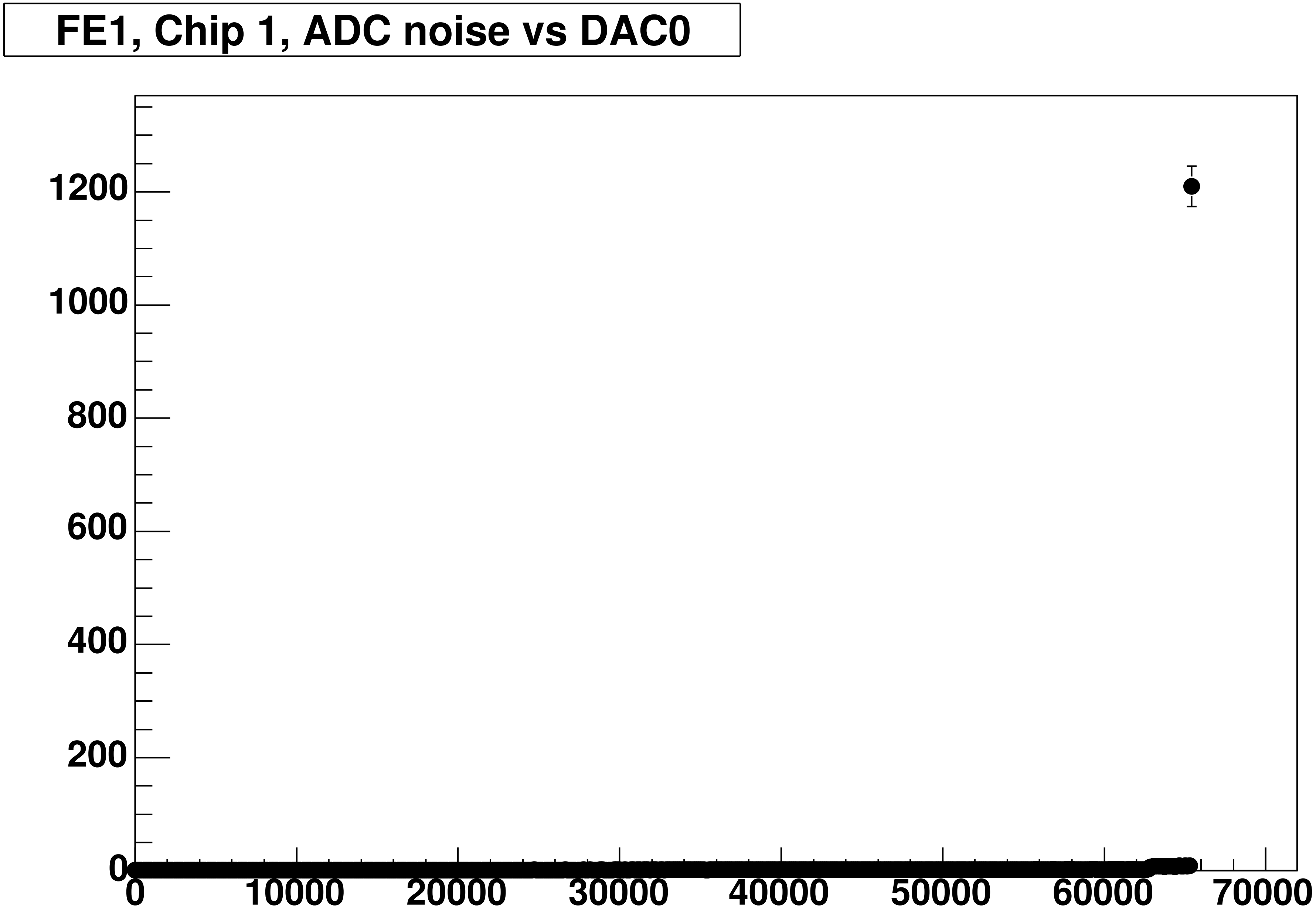

FE1, Chip 0, ADC mean vs DAC1
χ2 / ndf 557 / 427
p0 79.92 ± 0.01734
p1 1.348e-06 ± 4.81e-07
80.8
80.6
80.4
80.2
80
79.8
79.6
79.4
79.2
0
10000
20000
30000
40000
50000
60000
70000

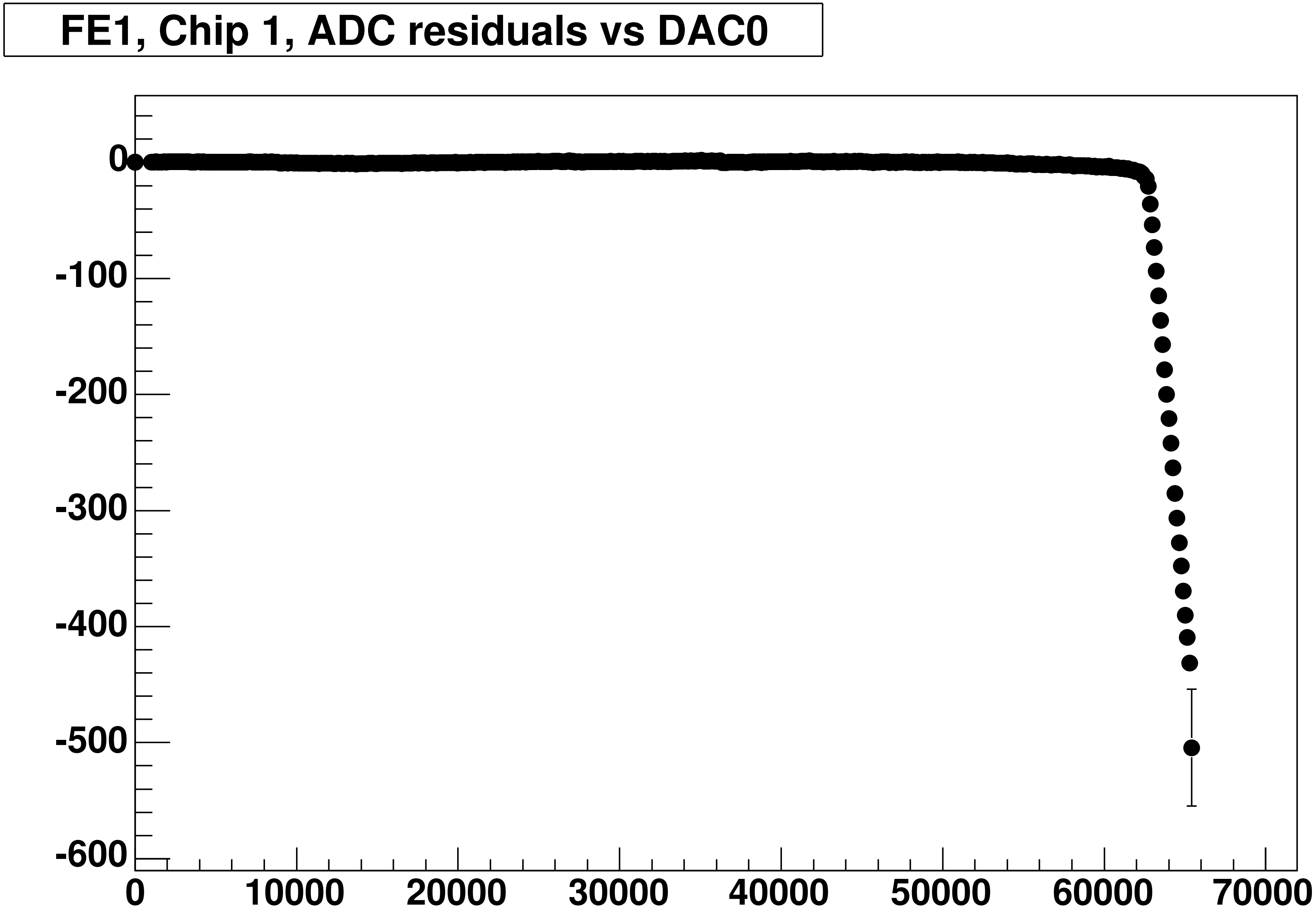


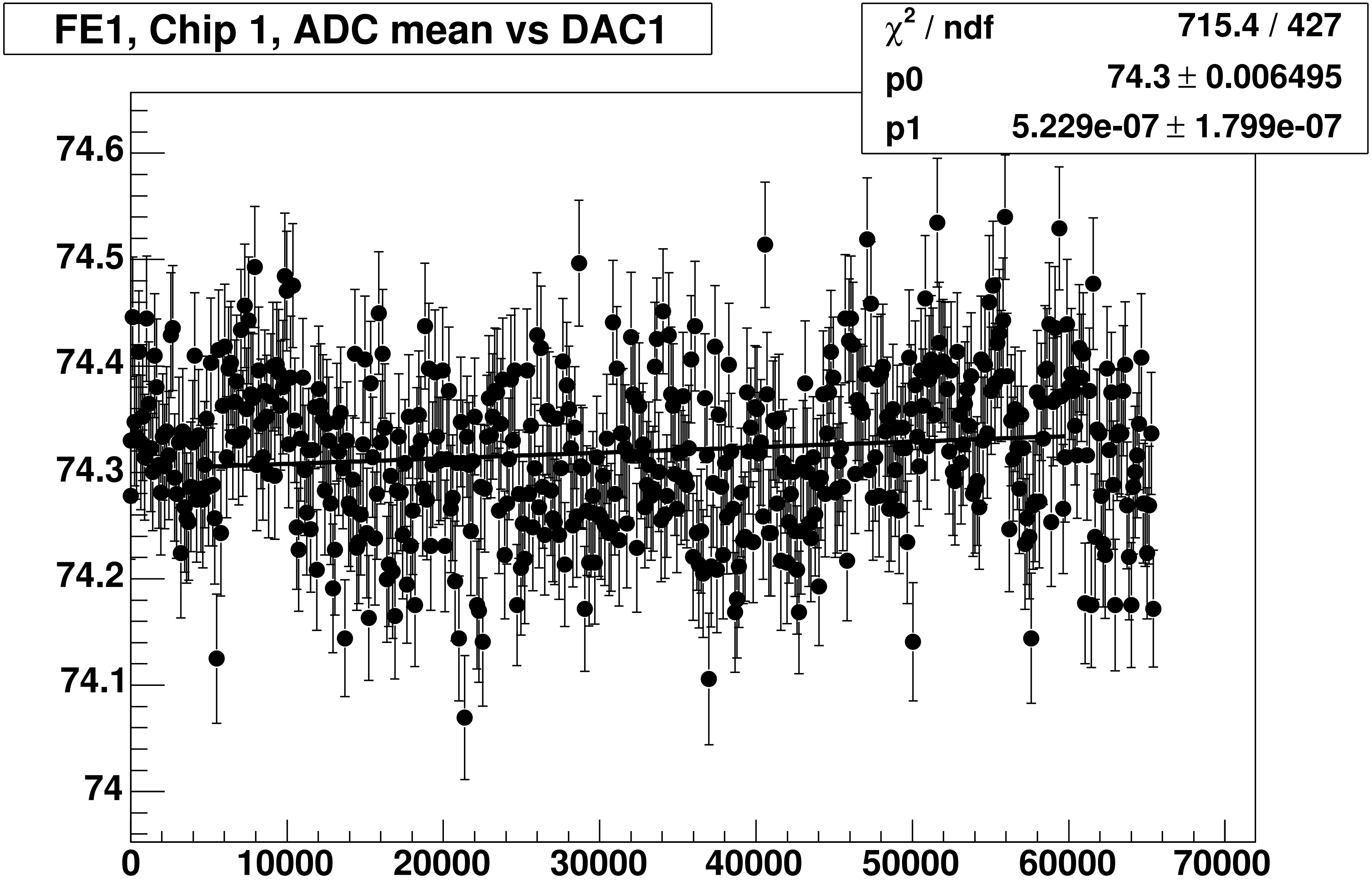
FE1, Chip 0, ADC noise vs DAC1
4.4
4.2
4
3.8
3.6
3.4
3.2
0
10000
20000
30000
40000
50000
60000
70000


FE1, Chip 0, ADC residuals vs DAC1
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000

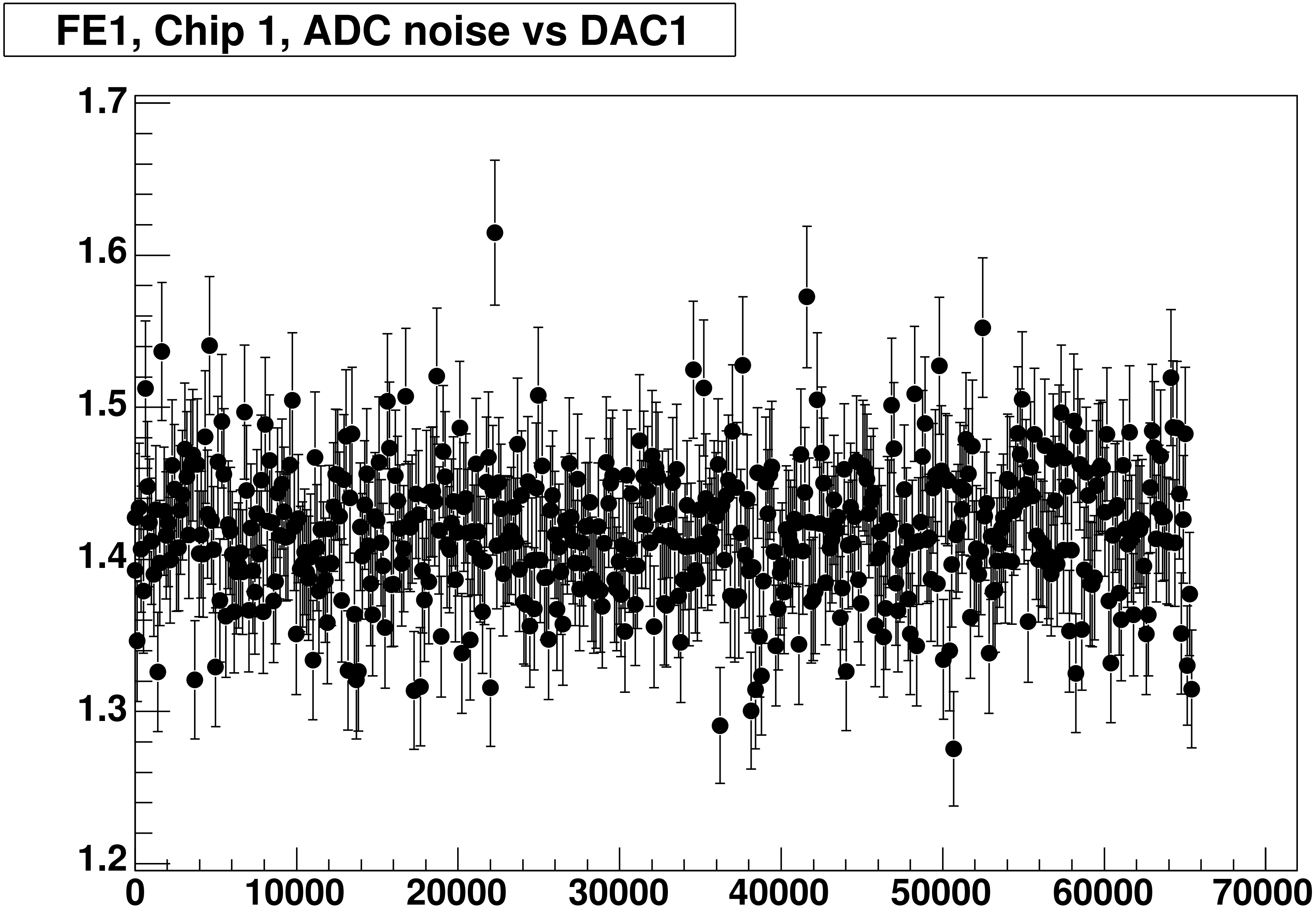

FE1, Chip 1, ADC mean vs DAC0
χ2 / ndf 5.667e+04 / 427
p0 74.09 ± 0.007052
p1 0.4497 ± 2.304e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

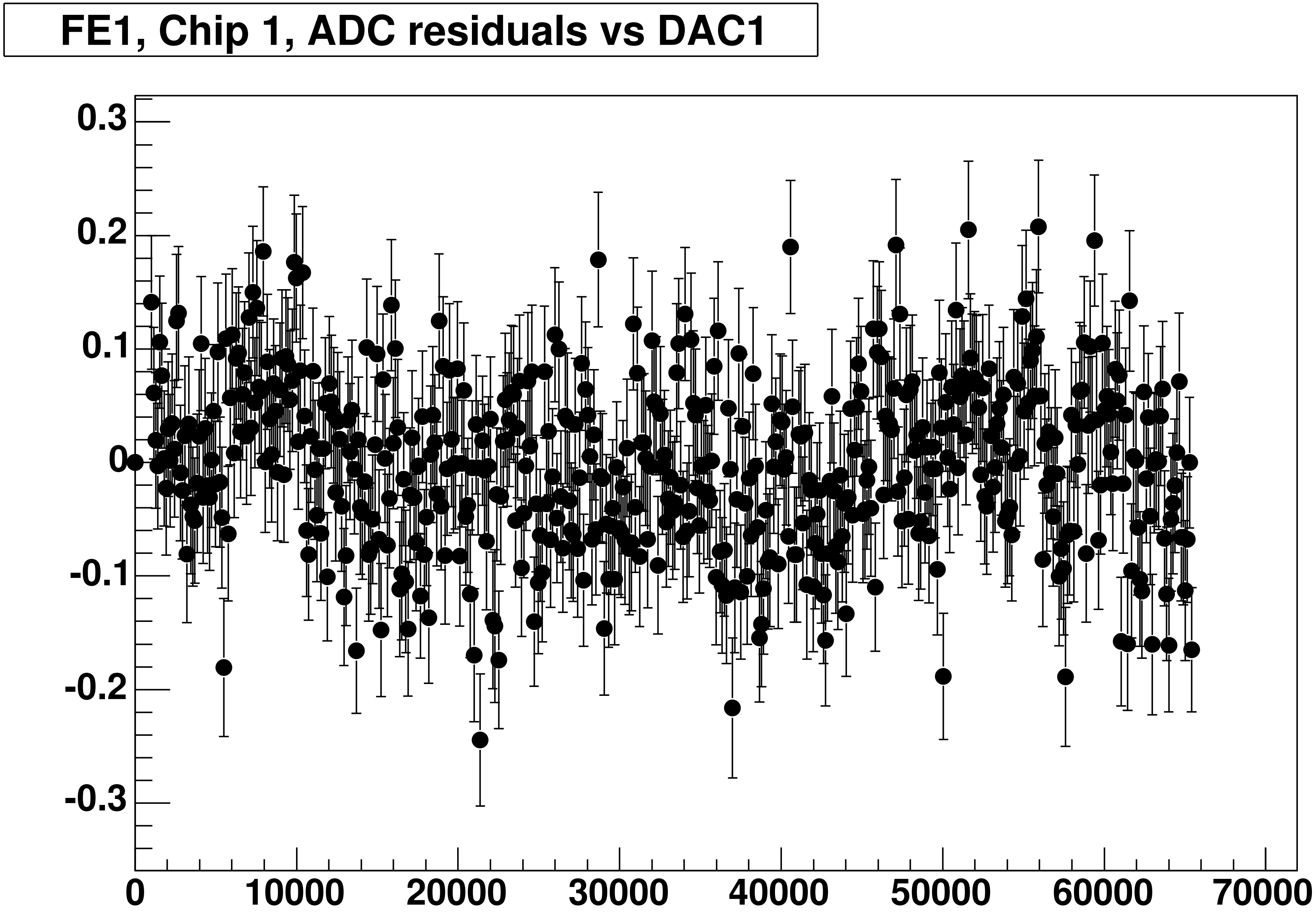

FE1, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000


FE1, Chip 1, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

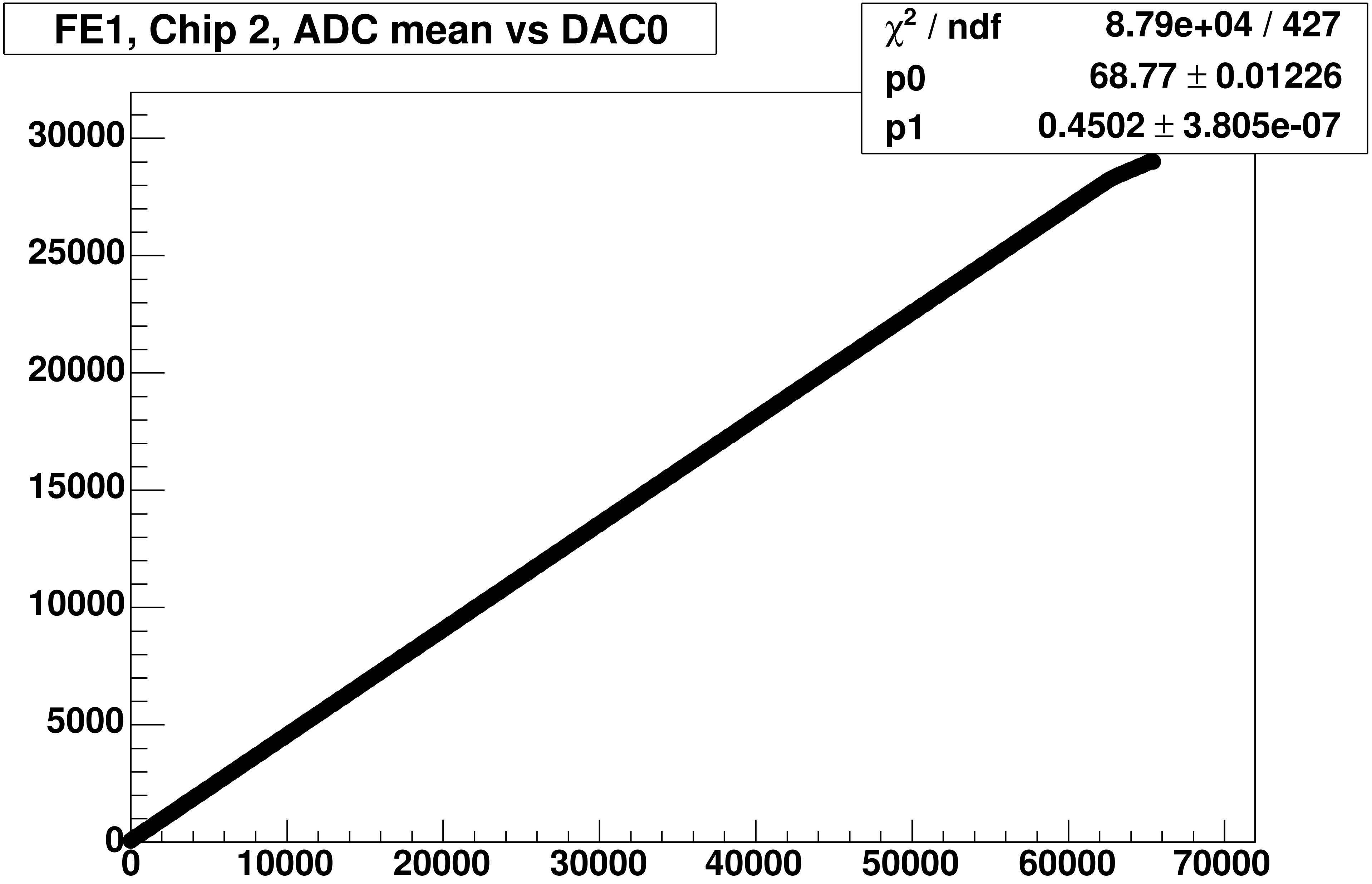


FE1, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 715.4 / 427
p0 74.3 ± 0.006495
p1 5.229e-07 ± 1.799e-07
74.6
74.5
74.4
74.3
74.2
74.1
74
0
10000
20000
30000
40000
50000
60000
70000

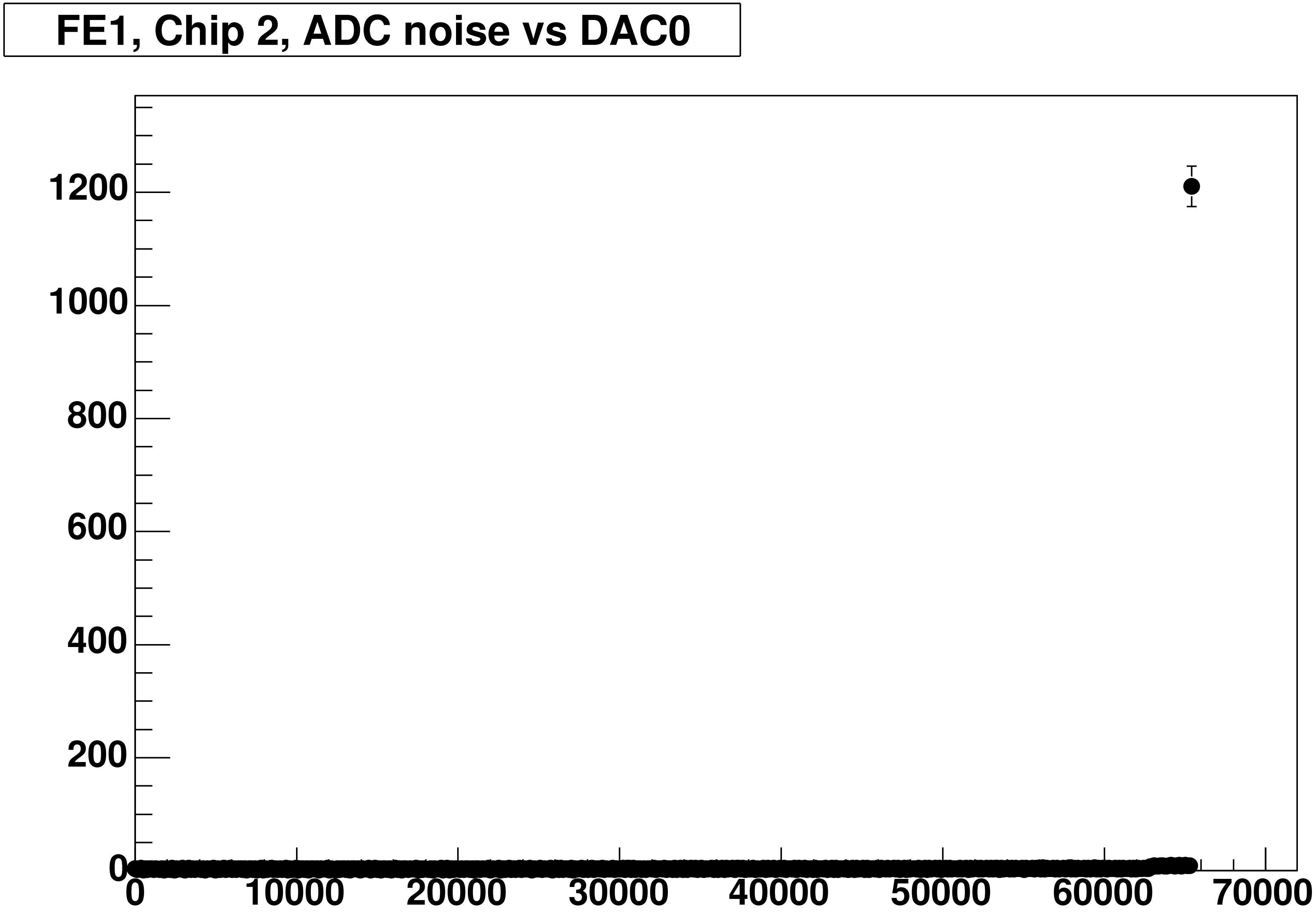

FE1, Chip 1, ADC noise vs DAC1
1.7
1.6
1.5
1.4
1.3
1.2
0
10000
20000
30000
40000
50000
60000
70000

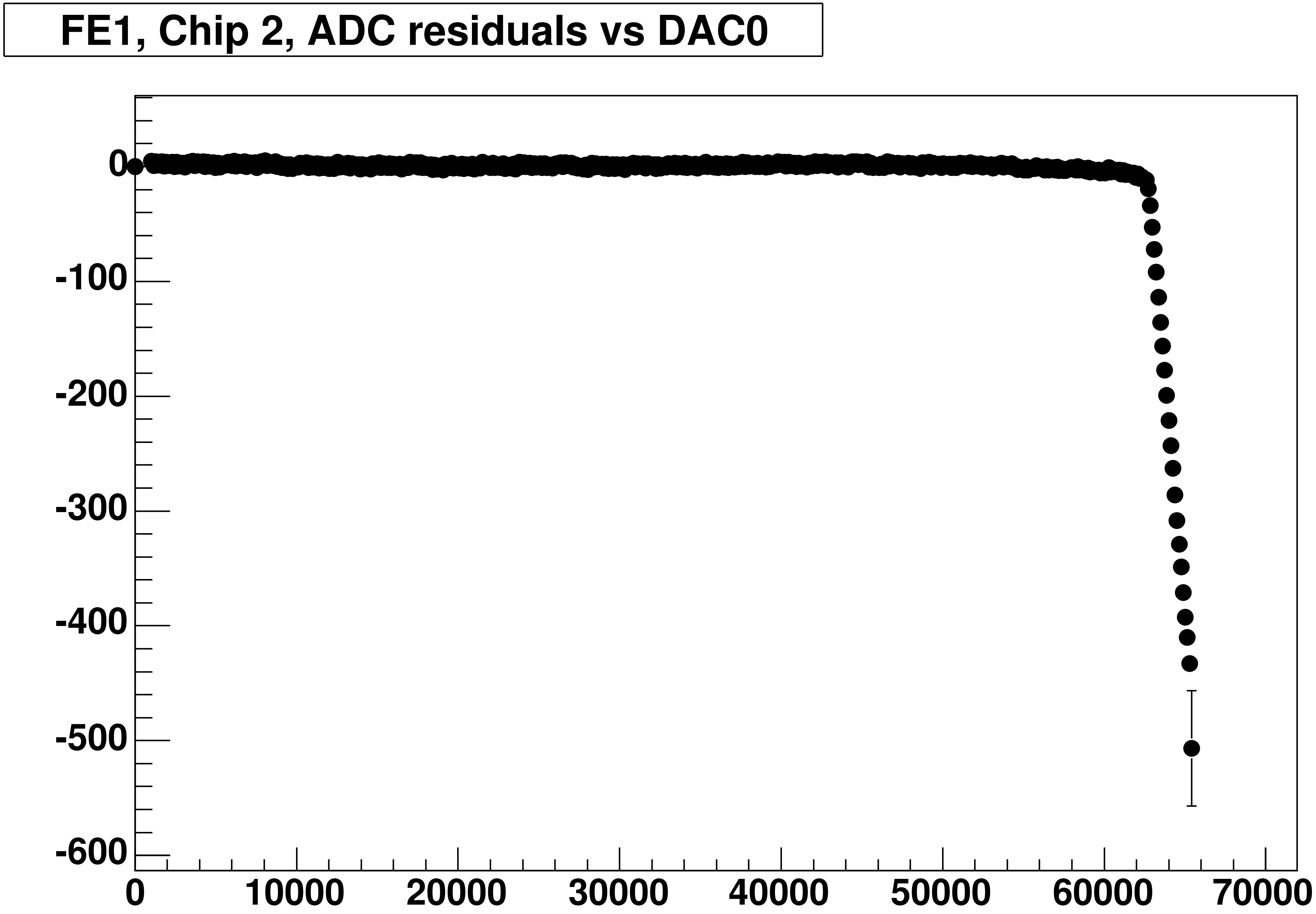


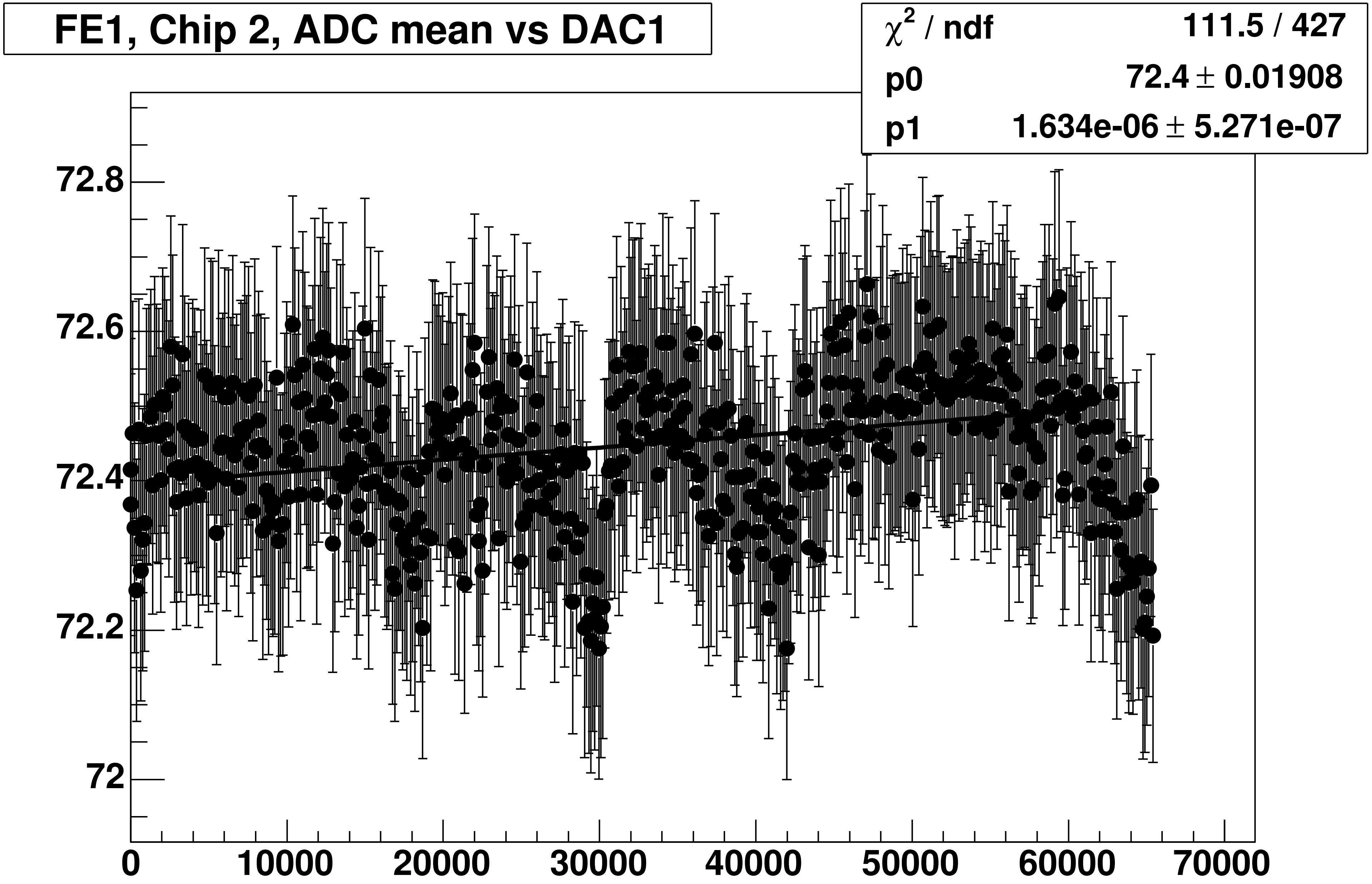
FE1, Chip 1, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000
70000



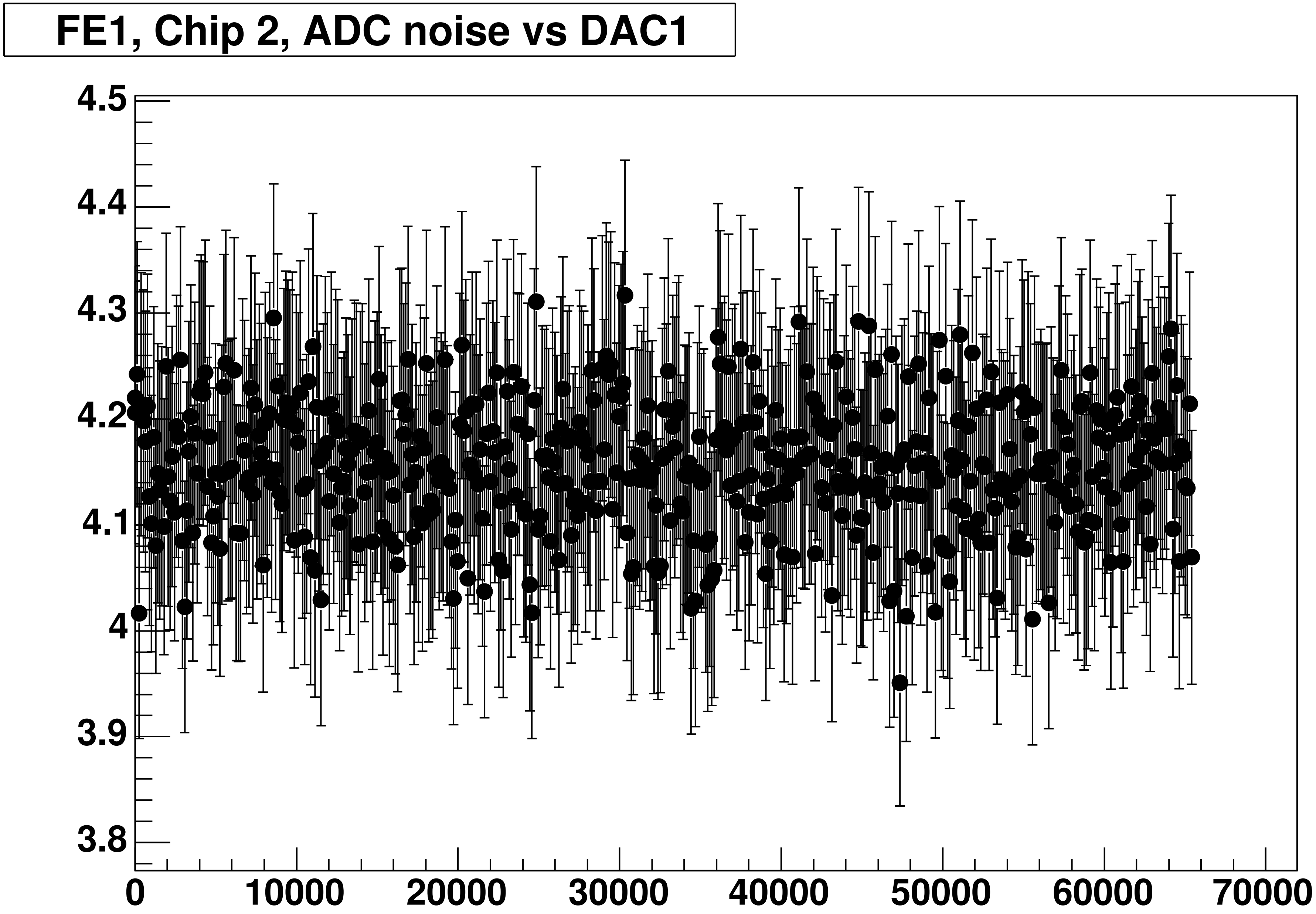
FE1, Chip 2, ADC mean vs DAC0
$\chi^2$ / ndf 8.79e+04 / 427
p0 68.77 ± 0.01226
p1 0.4502 ± 3.805e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000


FE1, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000

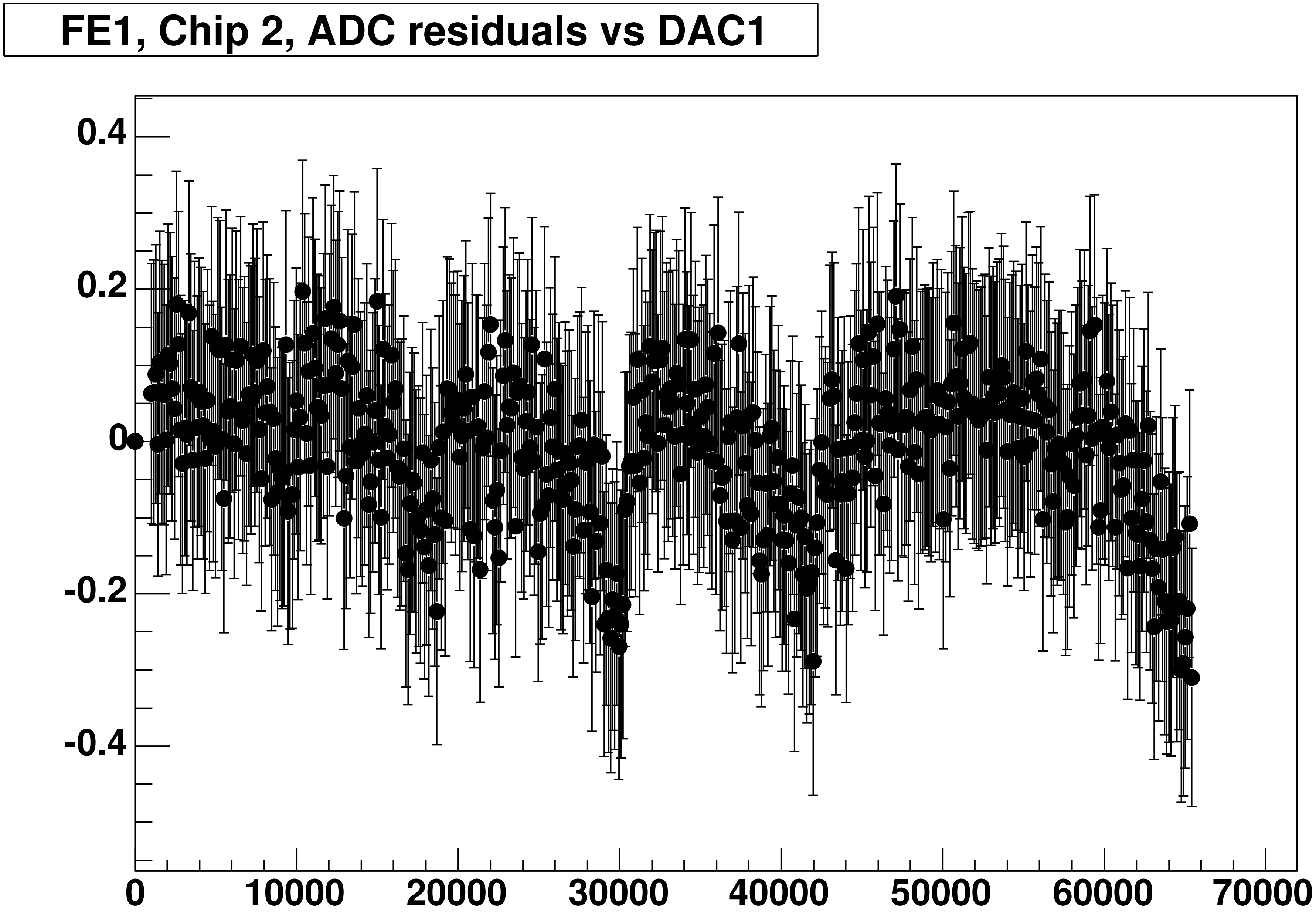

FE1, Chip 2, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

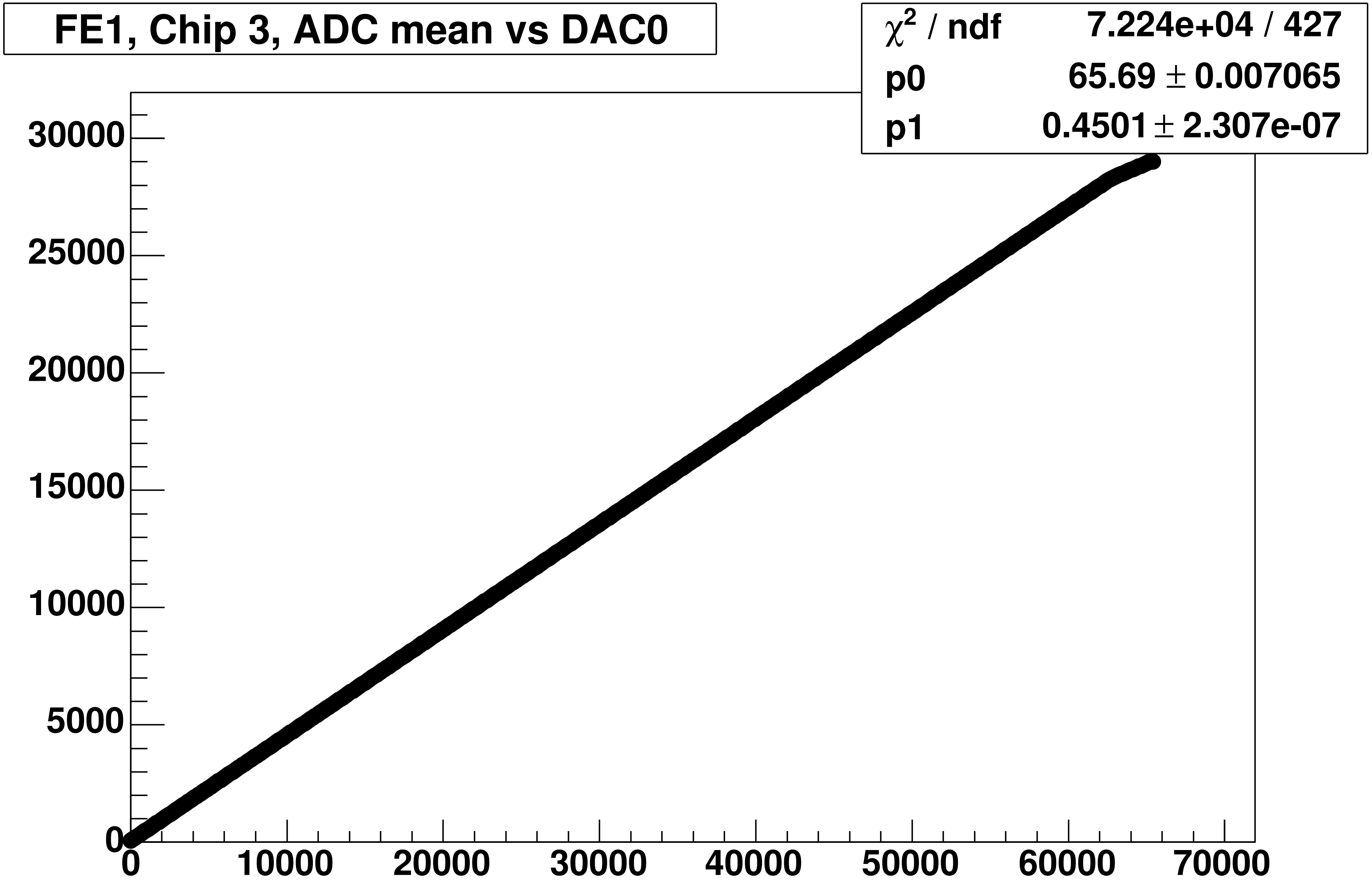


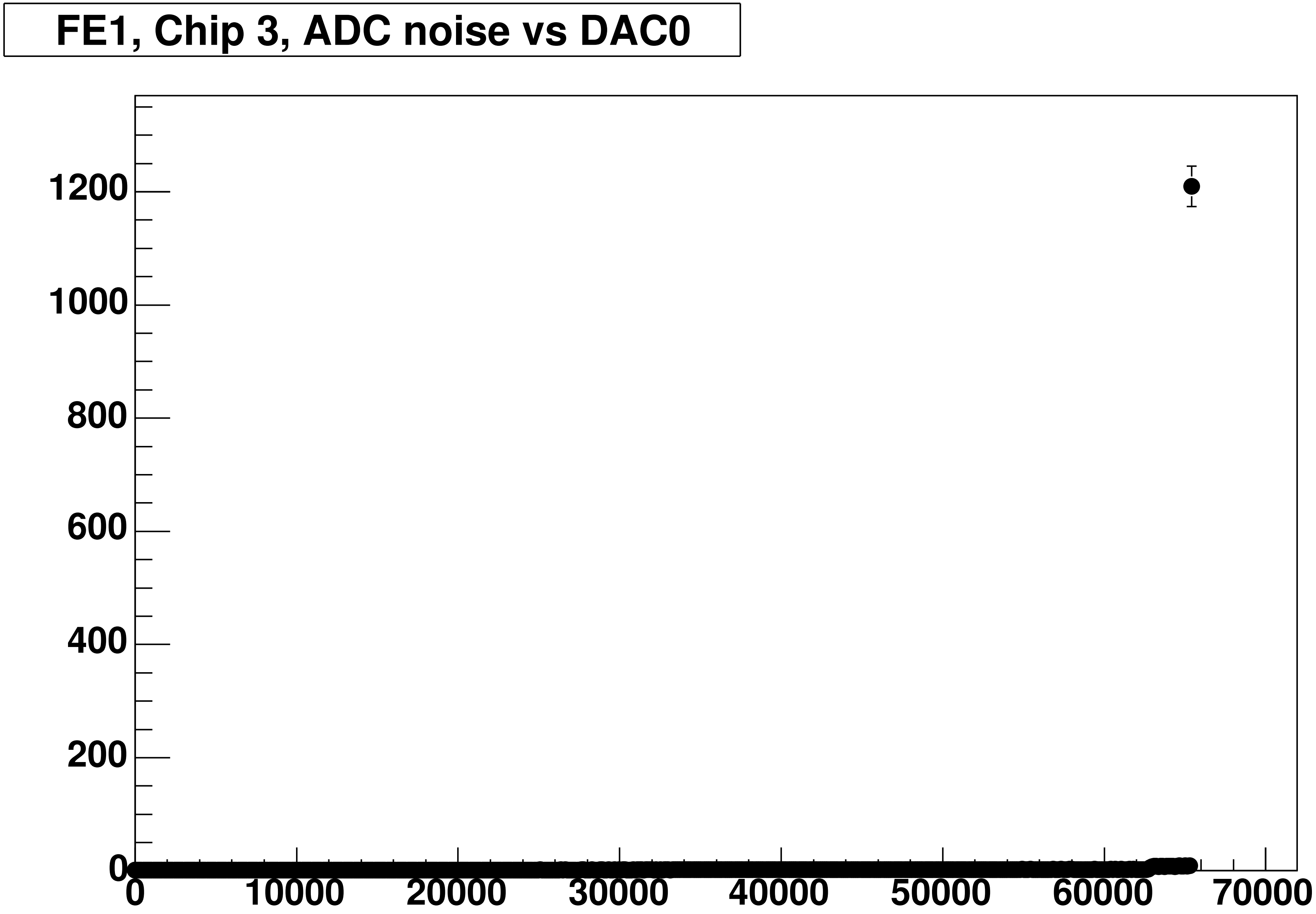
FE1, Chip 2, ADC mean vs DAC1
$\chi^2$ / ndf 111.5 / 427
p0 72.4 ± 0.01908
p1 1.634e-06 ± 5.271e-07
72.8
72.6
72.4
72.2
72
0
10000
20000
30000
40000
50000
60000
70000

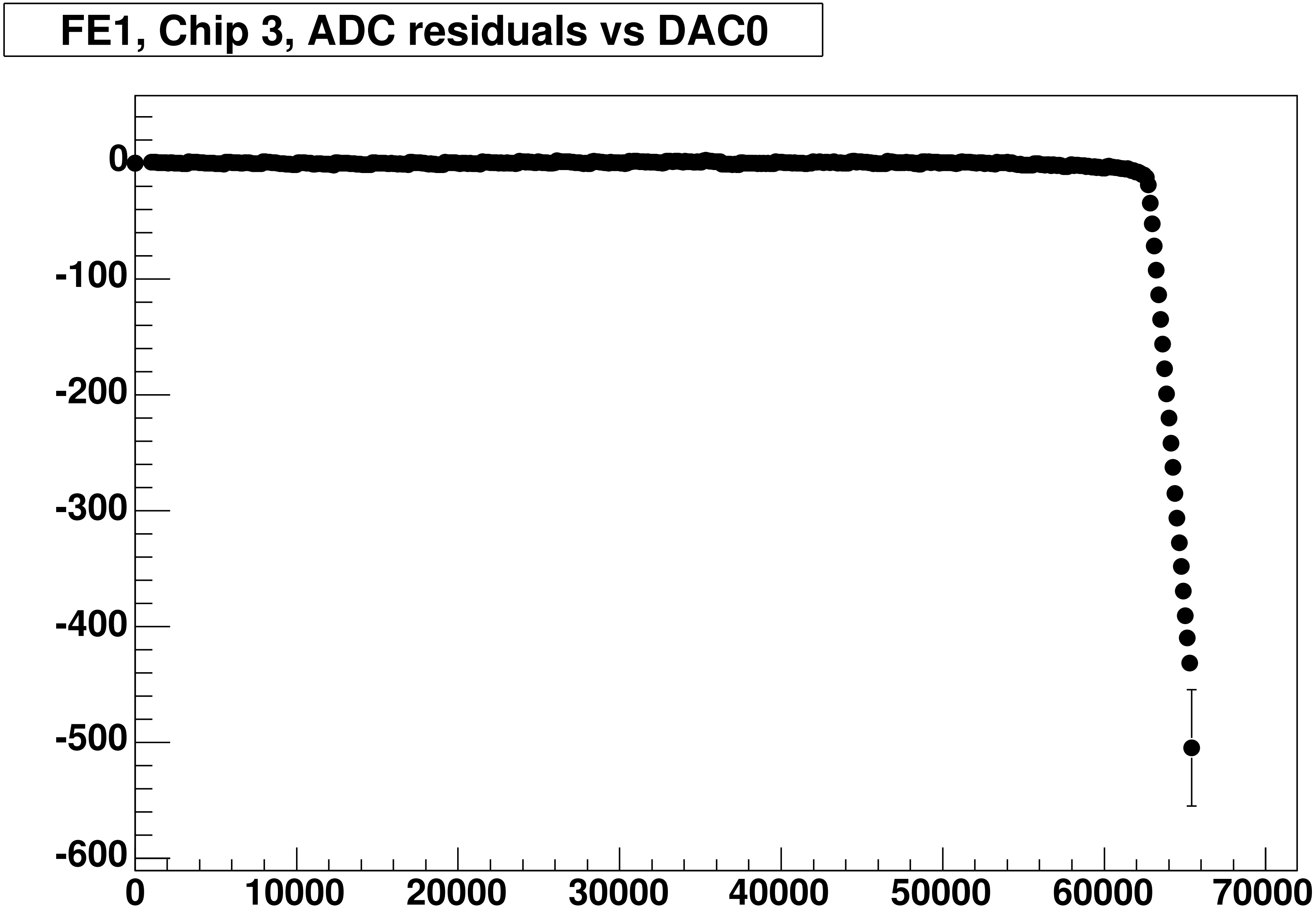


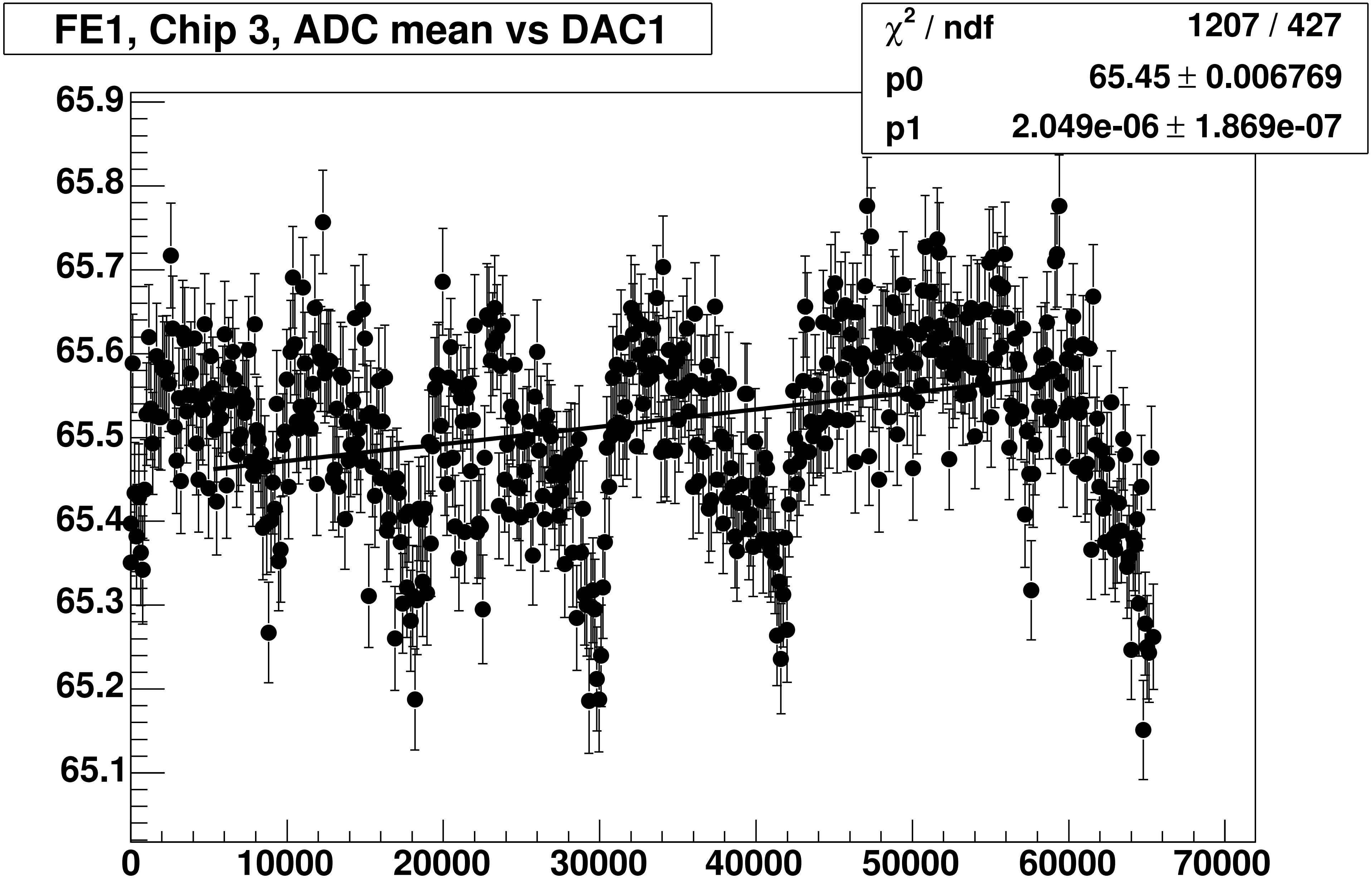
FE1, Chip 2, ADC noise vs DAC1
4.5
4.4
4.3
4.2
4.1
4
3.9
3.8
0
10000
20000
30000
40000
50000
60000
70000

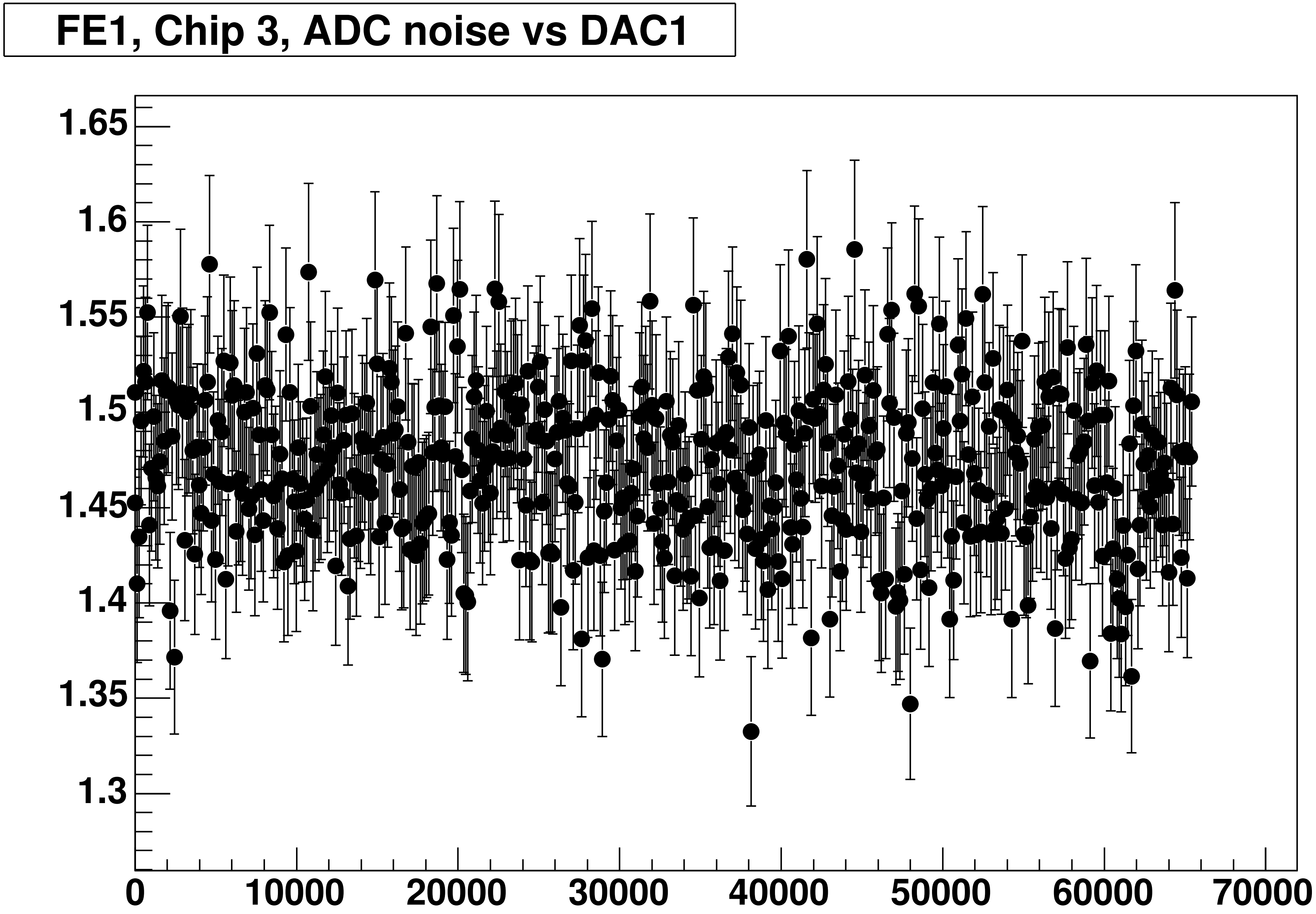

FE1, Chip 2, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000
70000

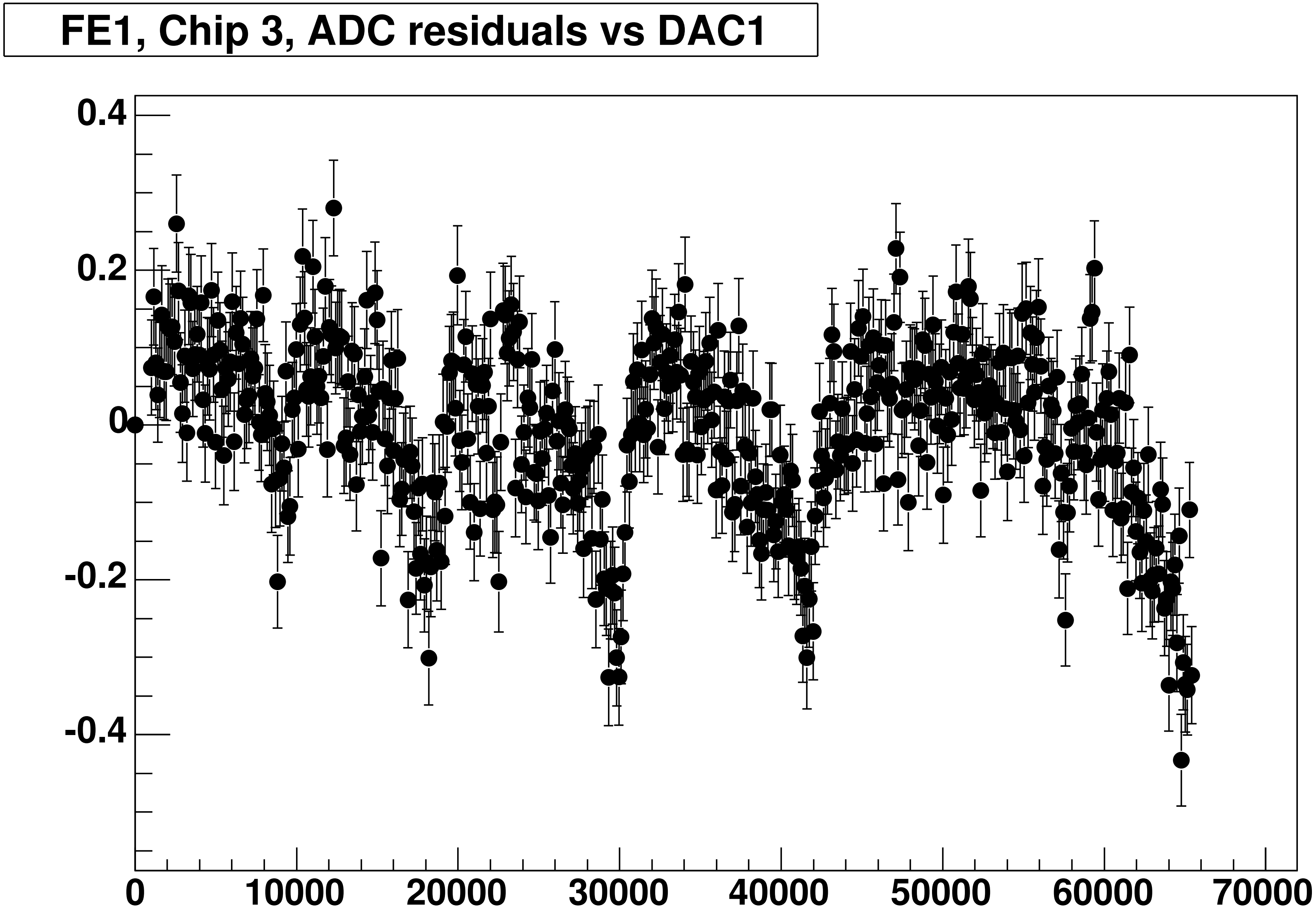

FE1, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 7.224e+04 / 427
p0 65.69 ± 0.007065
p1 0.4501 ± 2.307e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000

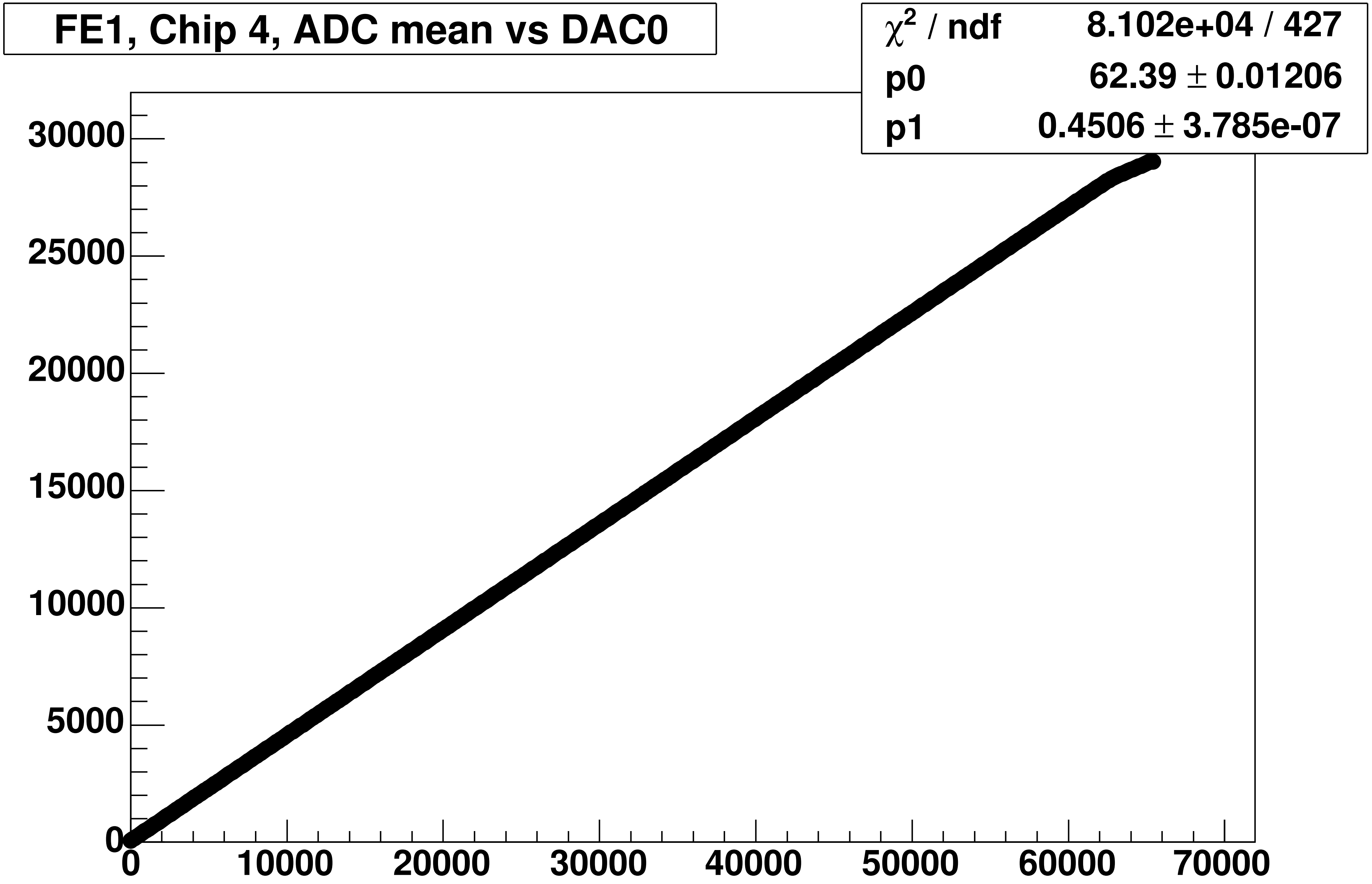

FE1, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000


FE1, Chip 3, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

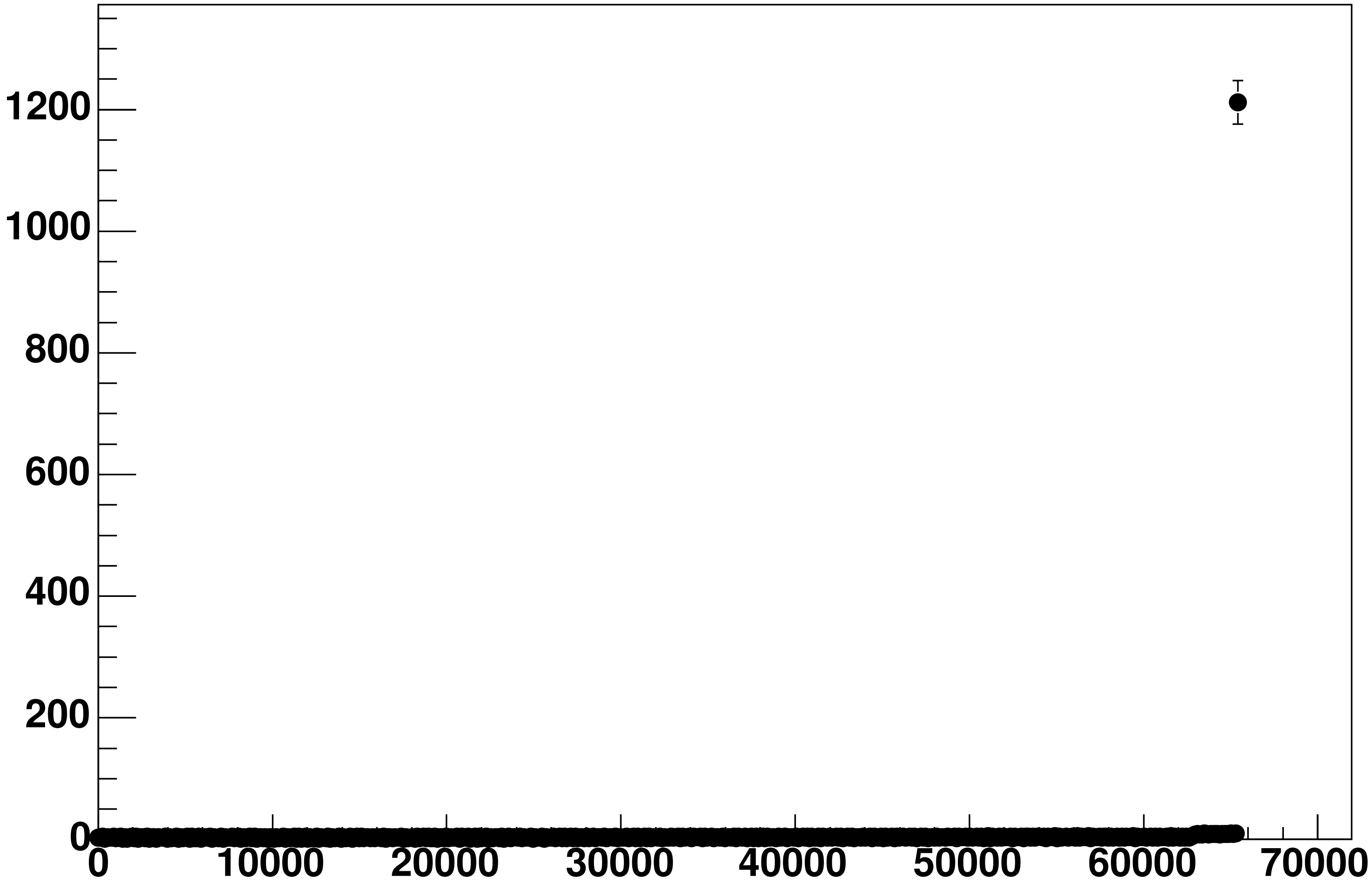

FE1, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 1207 / 427
p0 65.45 ± 0.006769
p1 2.049e-06 ± 1.869e-07
65.9
65.8
65.7
65.6
65.5
65.4
65.3
65.2
65.1
0
10000
20000
30000
40000
50000
60000
70000

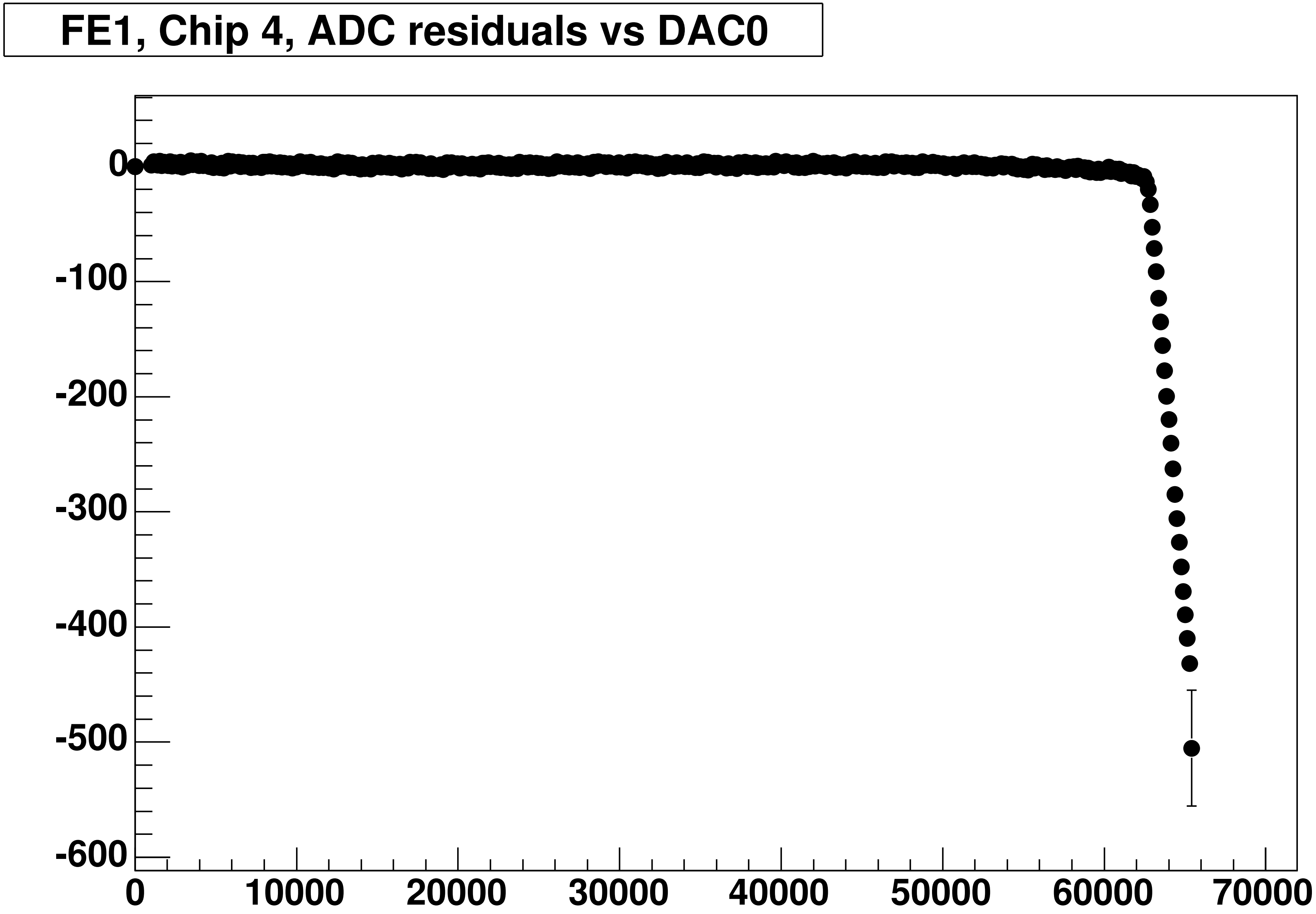

FE1, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000
70000

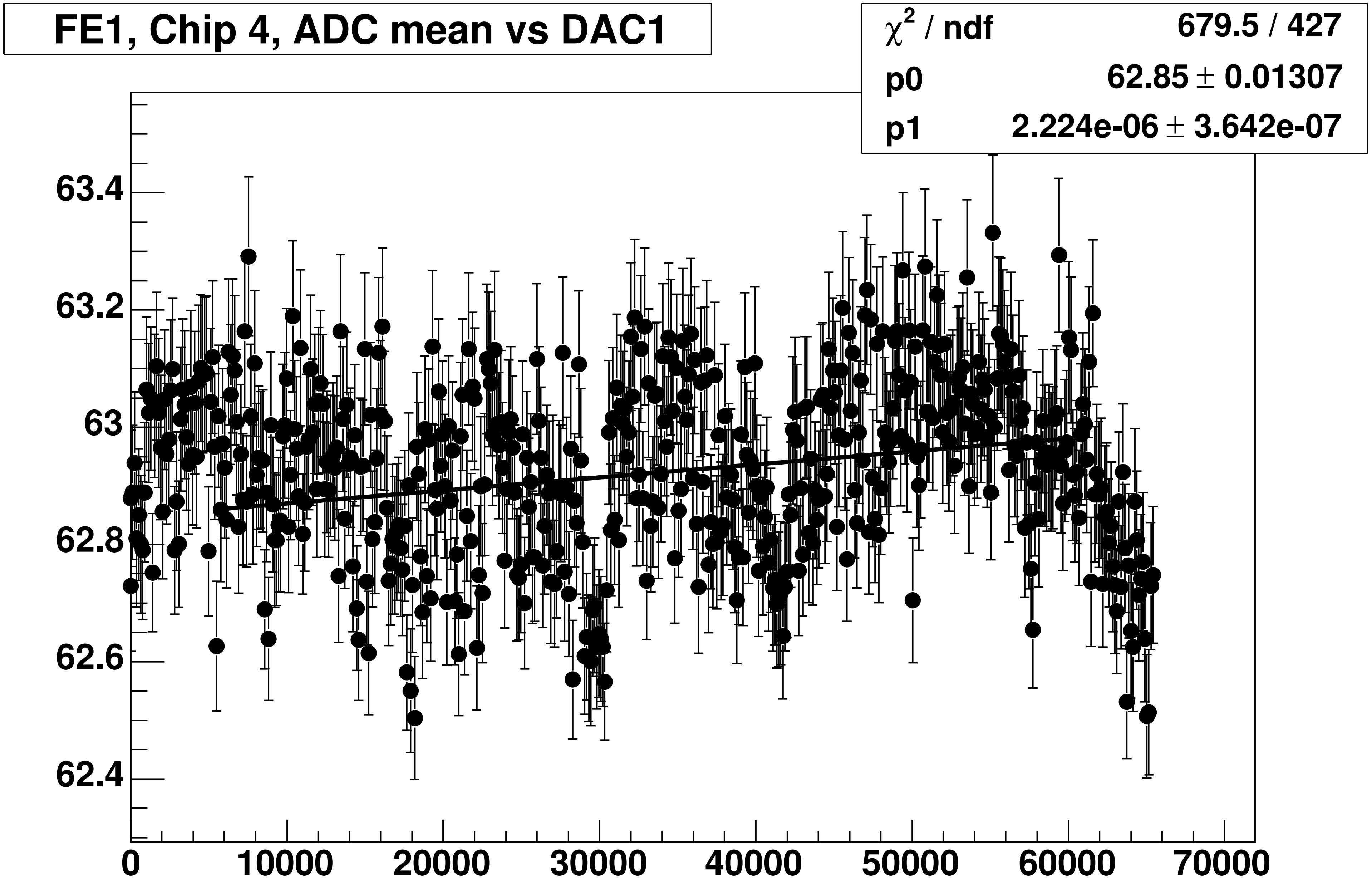

FE1, Chip 3, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000
70000

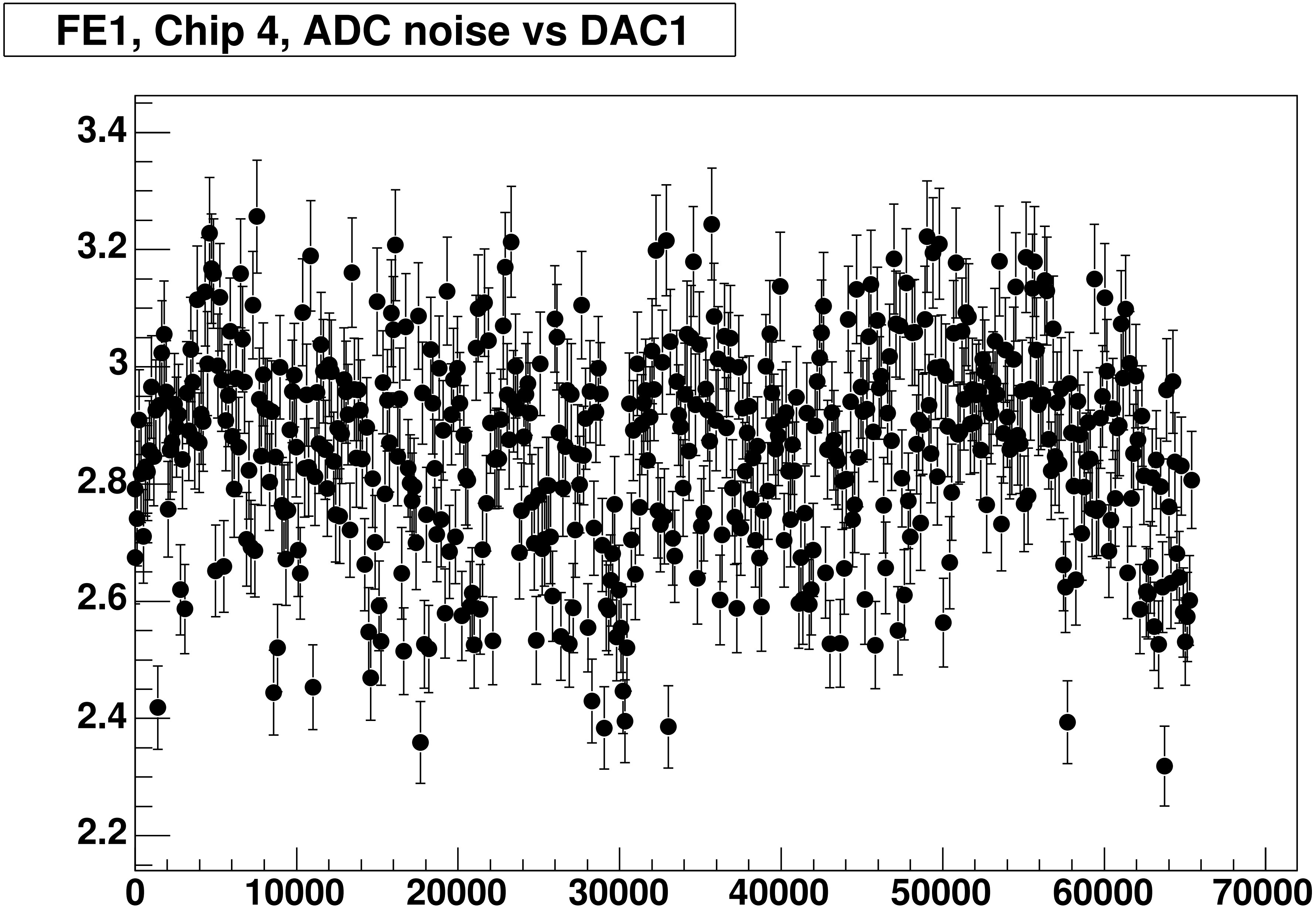

FE1, Chip 4, ADC mean vs DAC0
$\chi^2$ / ndf 8.102e+04 / 427
p0 62.39 ± 0.01206
p1 0.4506 ± 3.785e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000

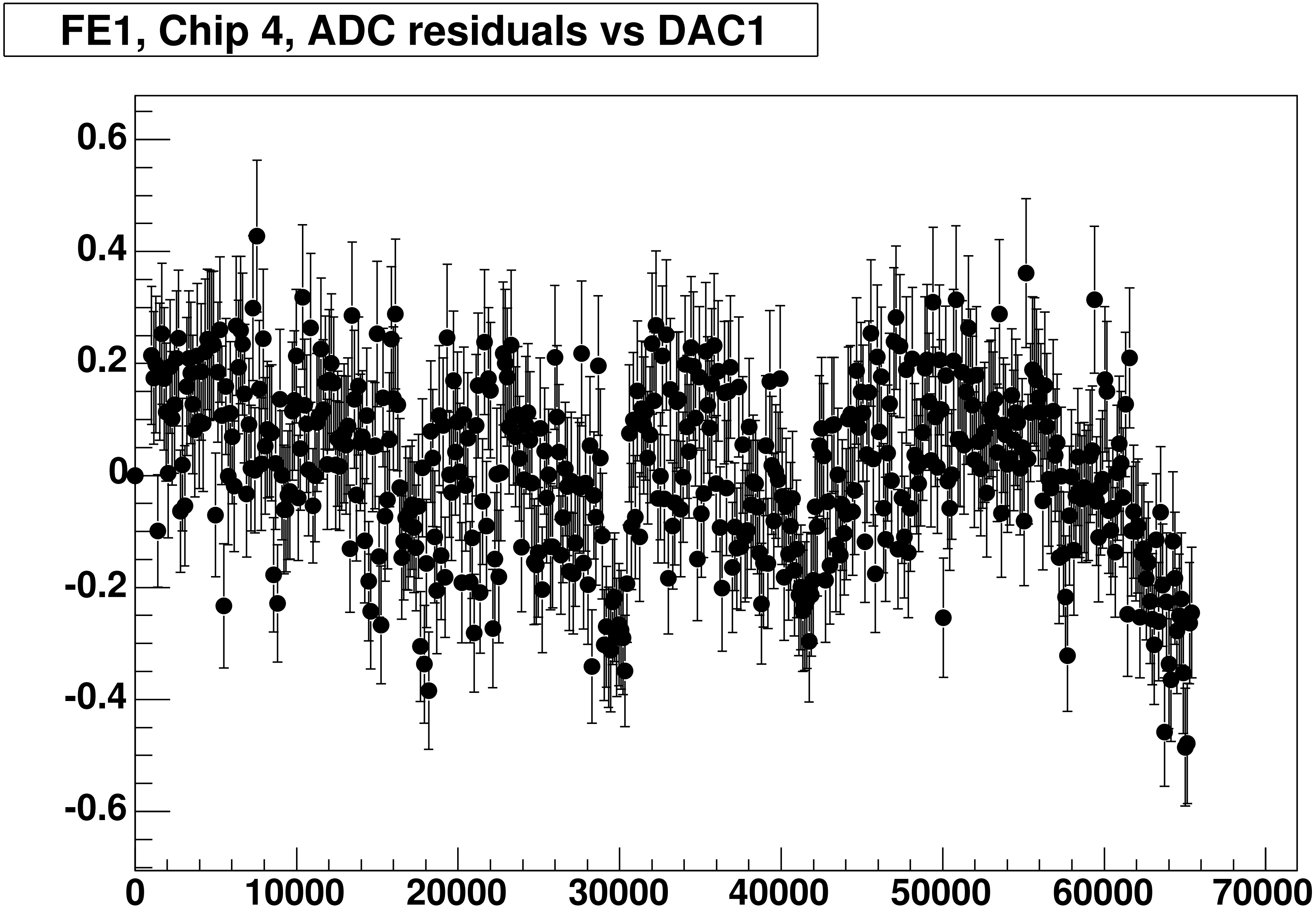
FE1, Chip 4, ADC noise vs DAC0

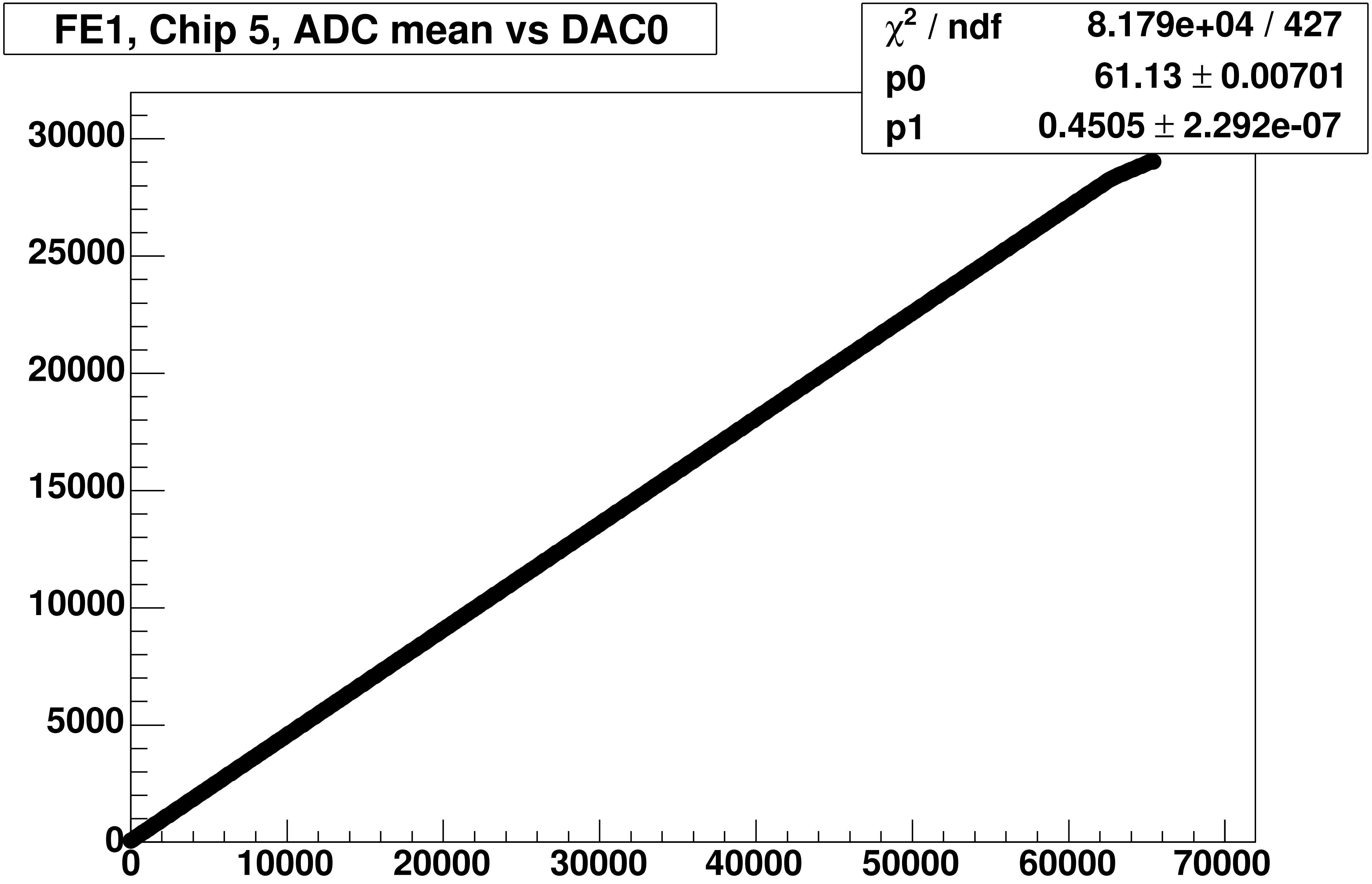


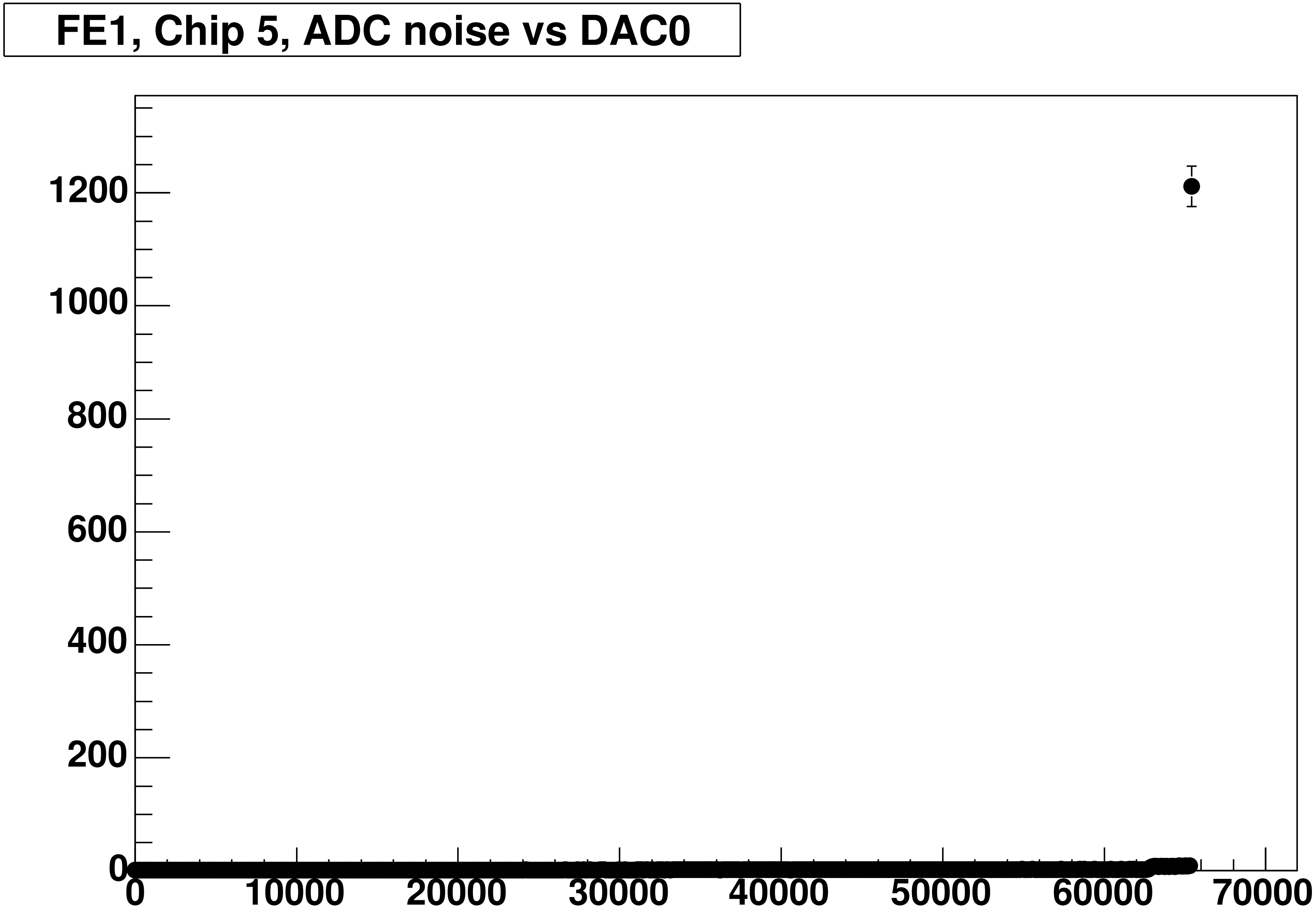

FE1, Chip 4, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000


FE1, Chip 4, ADC mean vs DAC1
$\chi^2$ / ndf 679.5 / 427
p0 62.85 ± 0.01307
p1 2.224e-06 ± 3.642e-07
63.4
63.2
63
62.8
62.6
62.4
0
10000
20000
30000
40000
50000
60000
70000

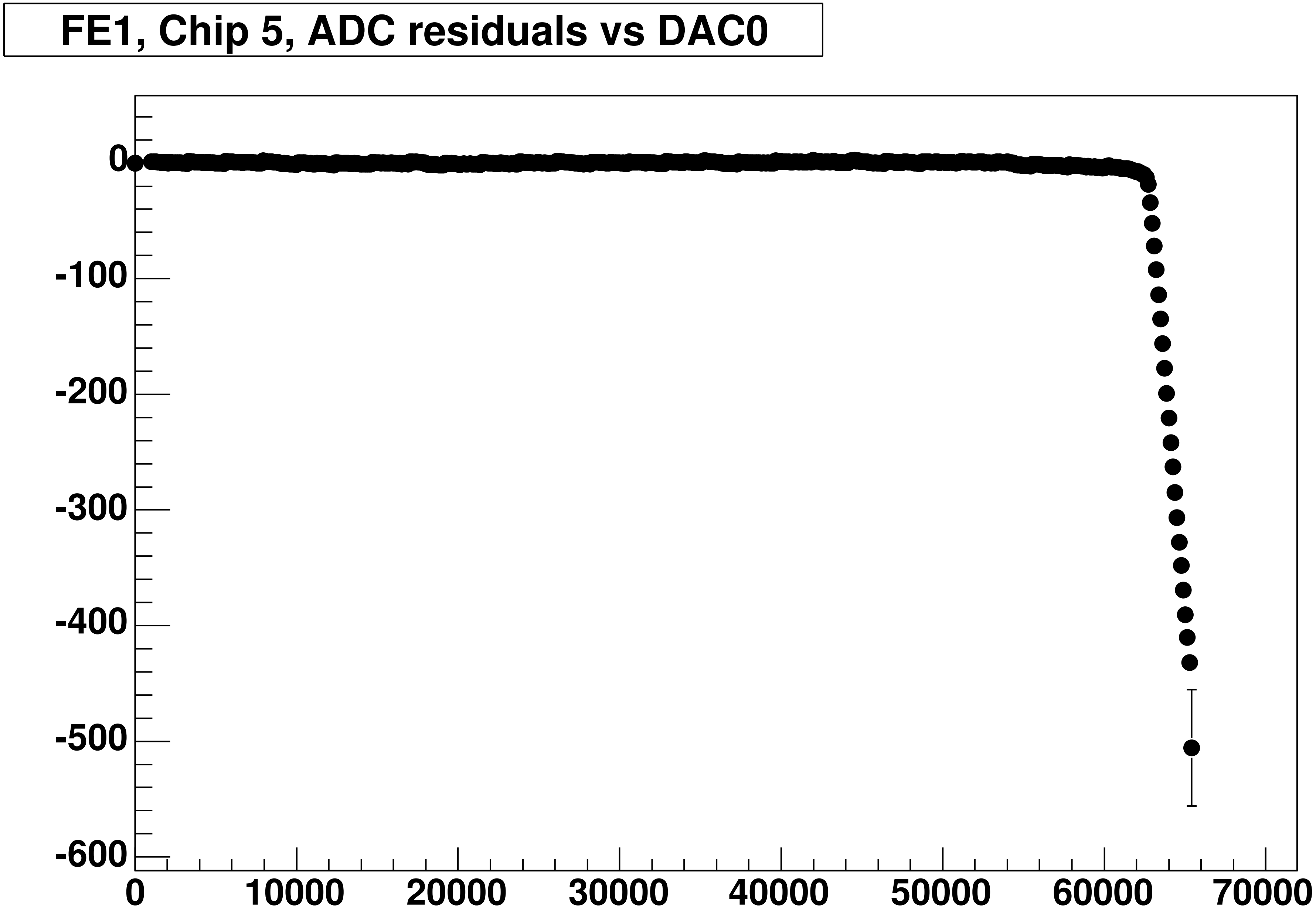

FE1, Chip 4, ADC noise vs DAC1
3.4
3.2
3
2.8
2.6
2.4
2.2
0
10000
20000
30000
40000
50000
60000
70000

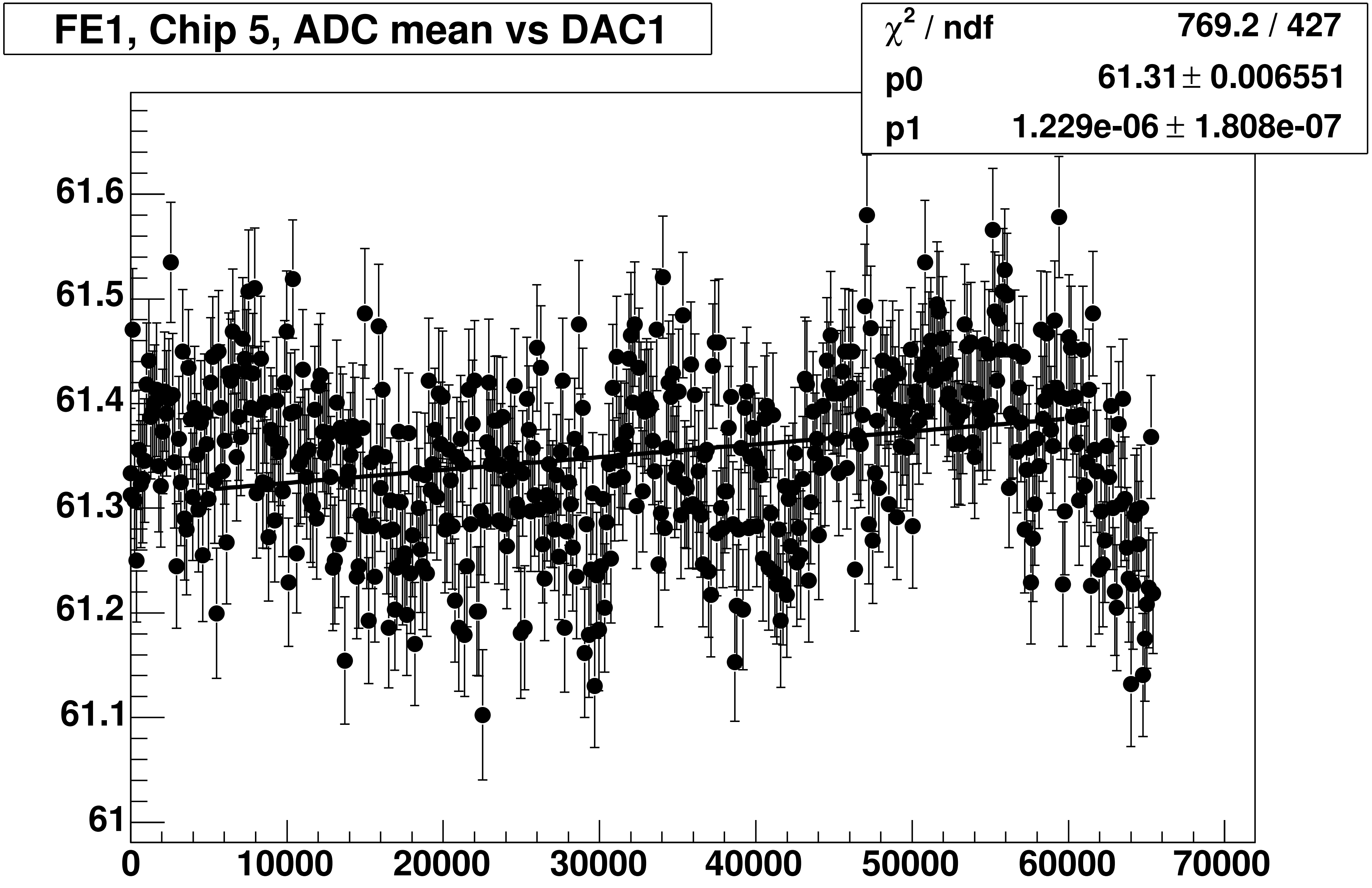

FE1, Chip 4, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000


FE1, Chip 5, ADC mean vs DAC0
$\chi^2$ / ndf 8.179e+04 / 427
p0 61.13 ± 0.00701
p1 0.4505 ± 2.292e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000

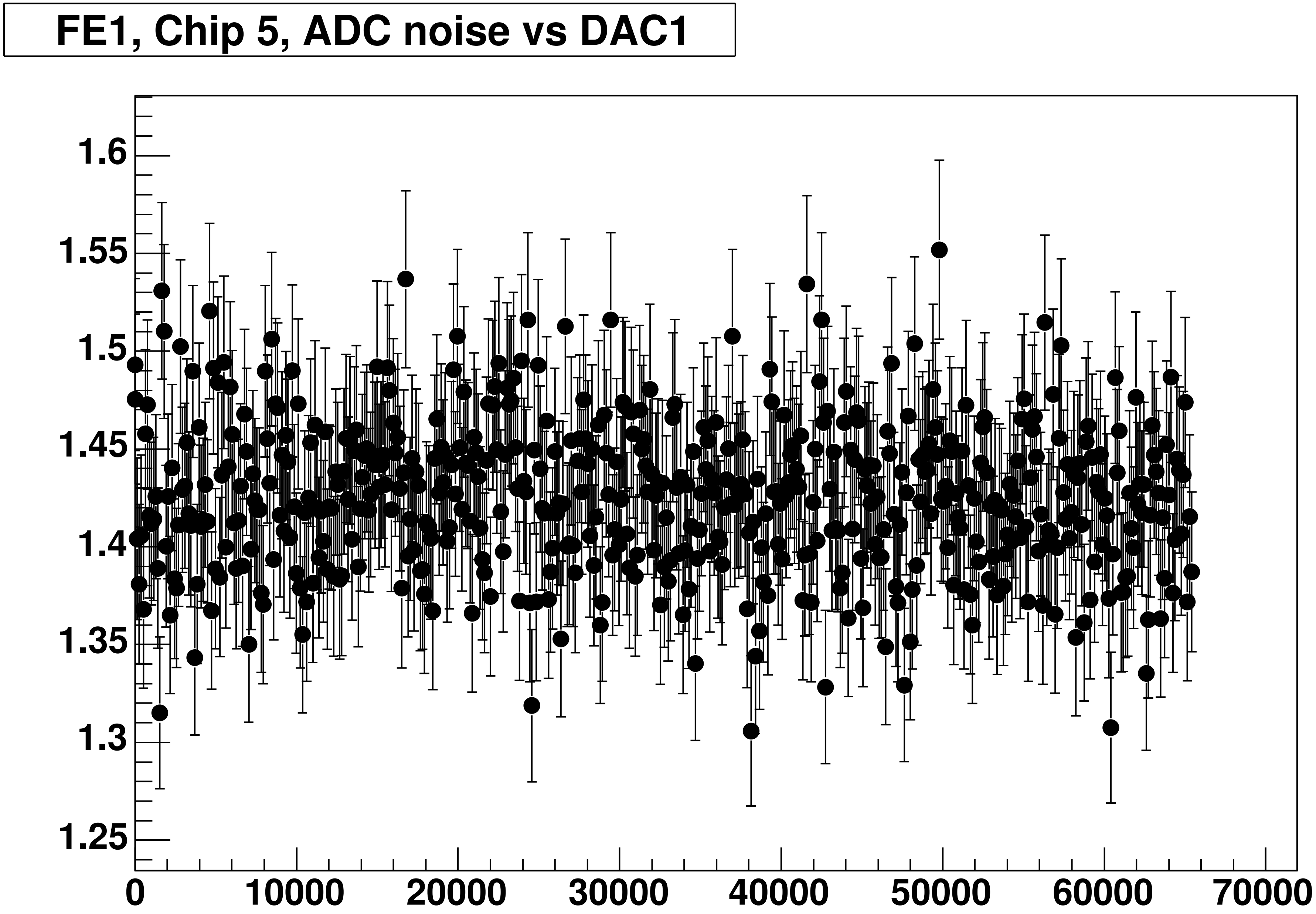


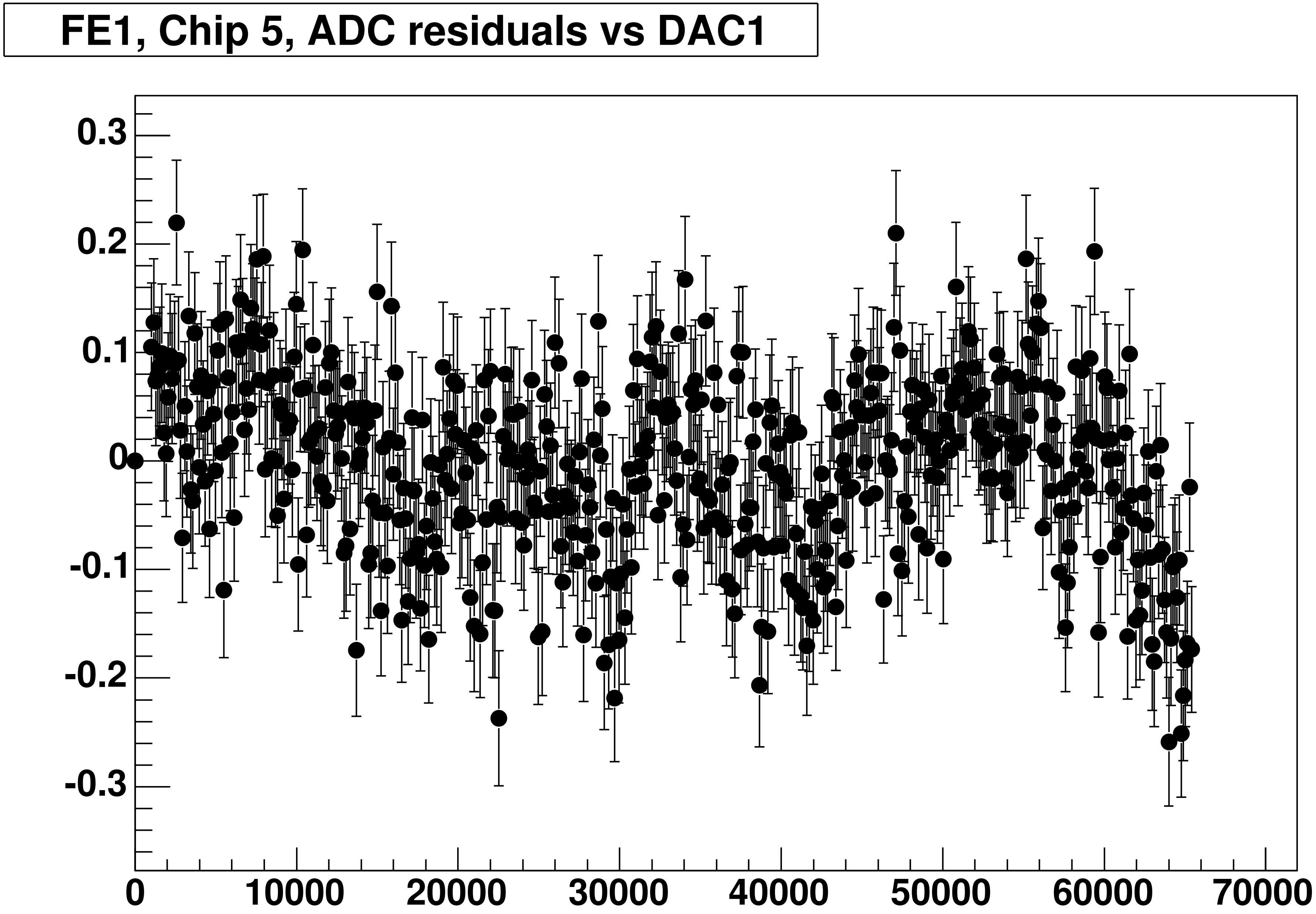
FE1, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000


FE1, Chip 5, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

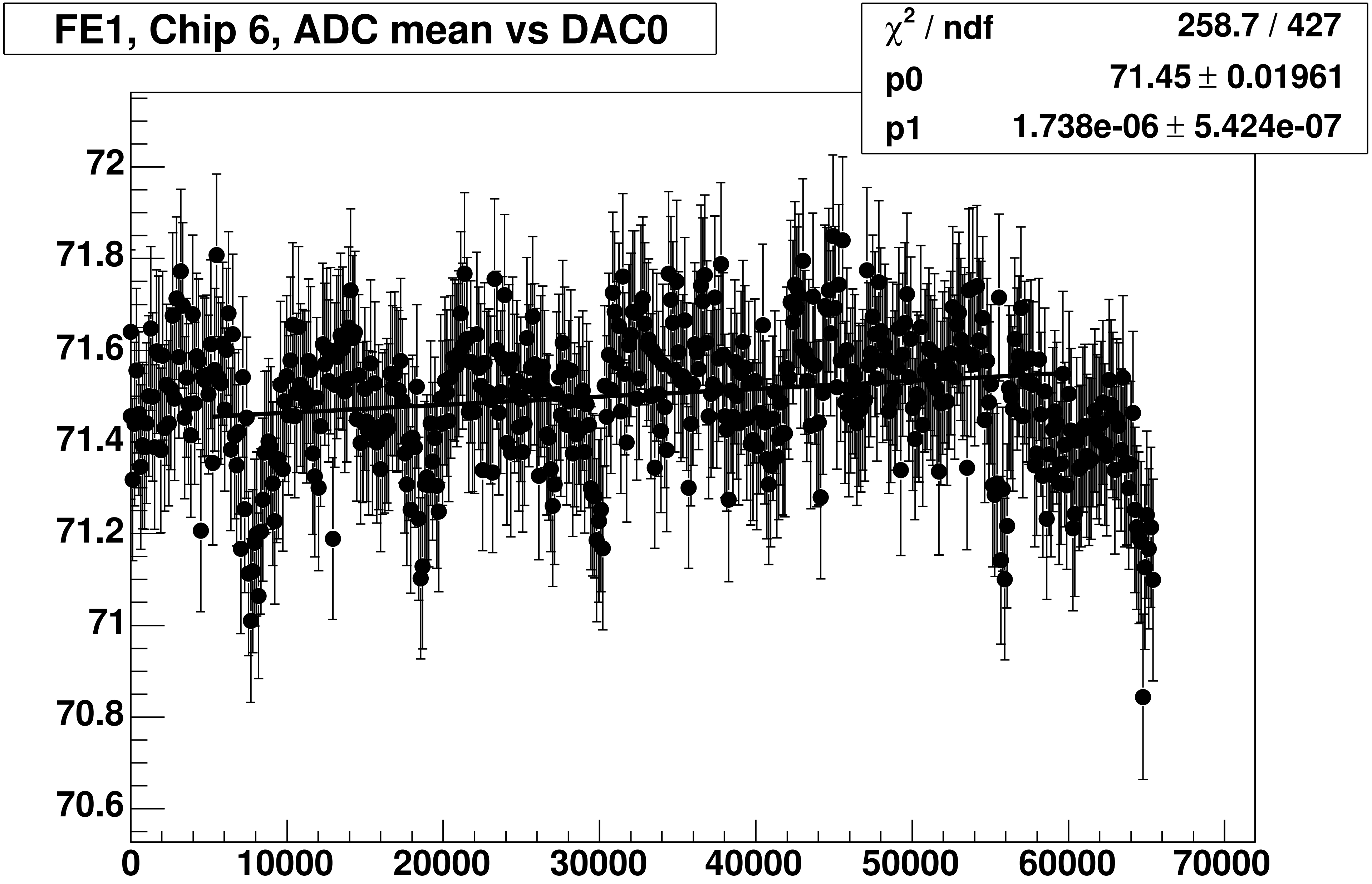


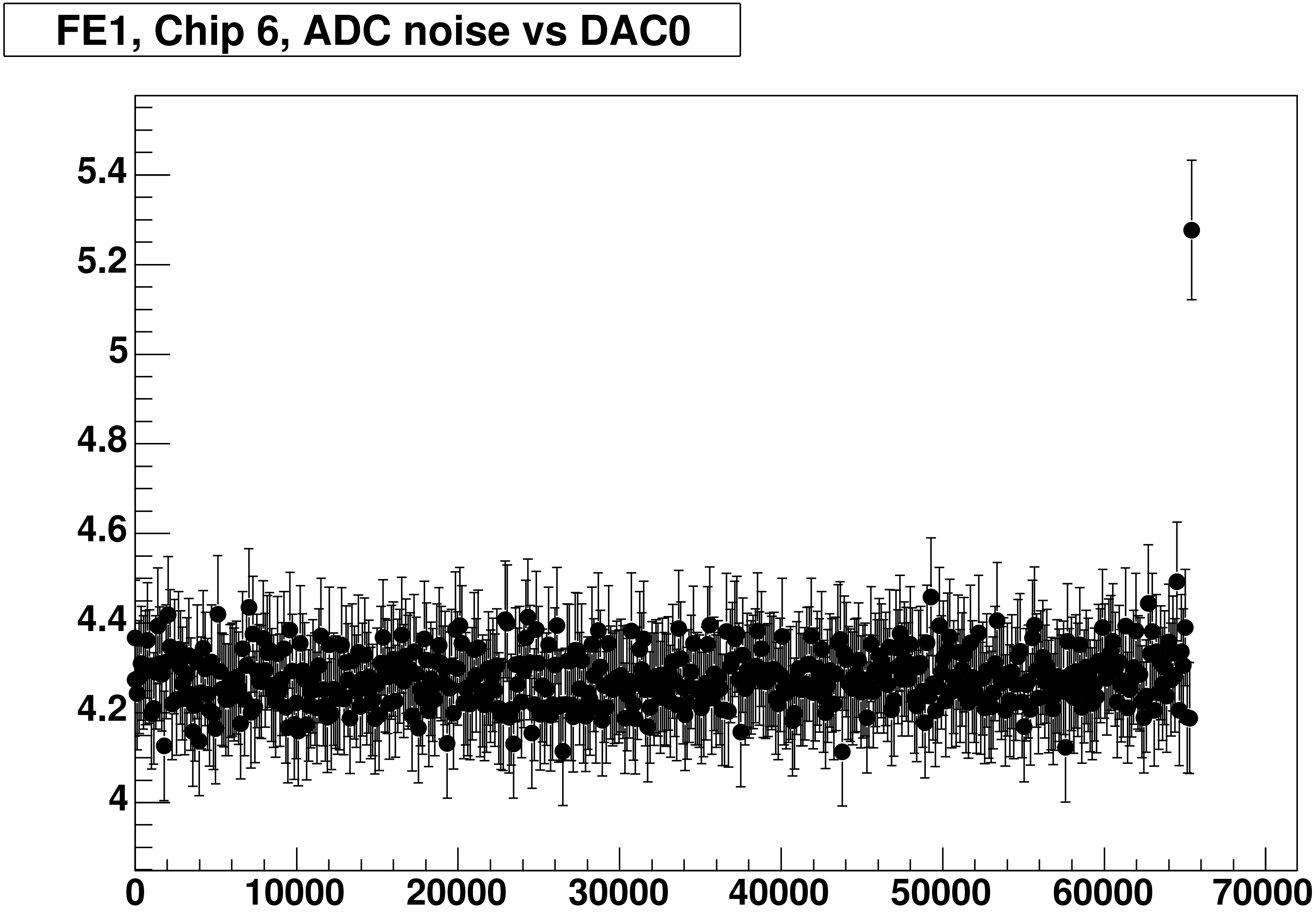
FE1, Chip 5, ADC mean vs DAC1
$\chi^2$ / ndf 769.2 / 427
p0 61.31 ± 0.006551
p1 1.229e-06 ± 1.808e-07
61
61.1
61.2
61.3
61.4
61.5
61.6
0
10000
20000
30000
40000
50000
60000
70000

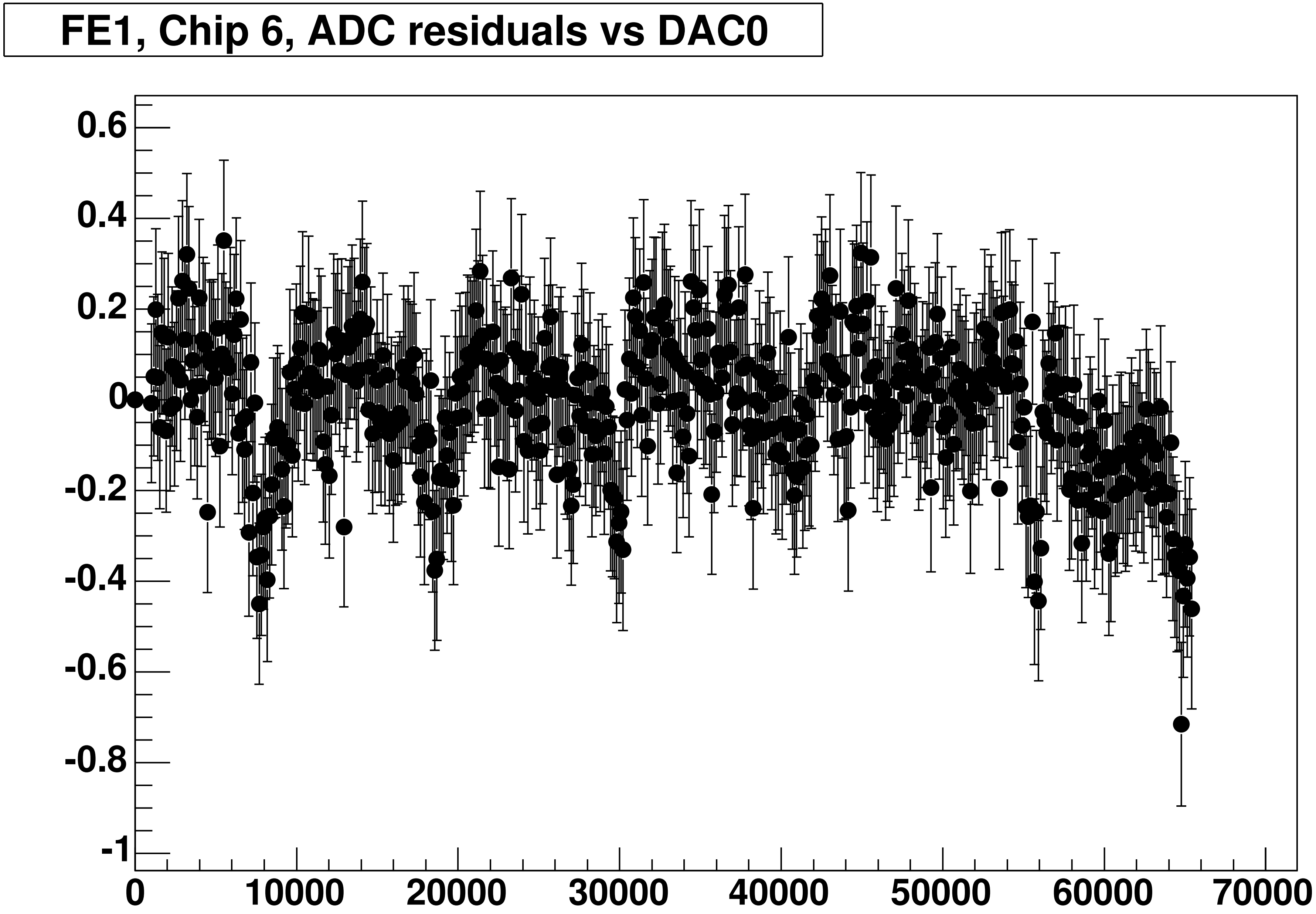

FE1, Chip 5, ADC noise vs DAC1
1.6
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000
70000



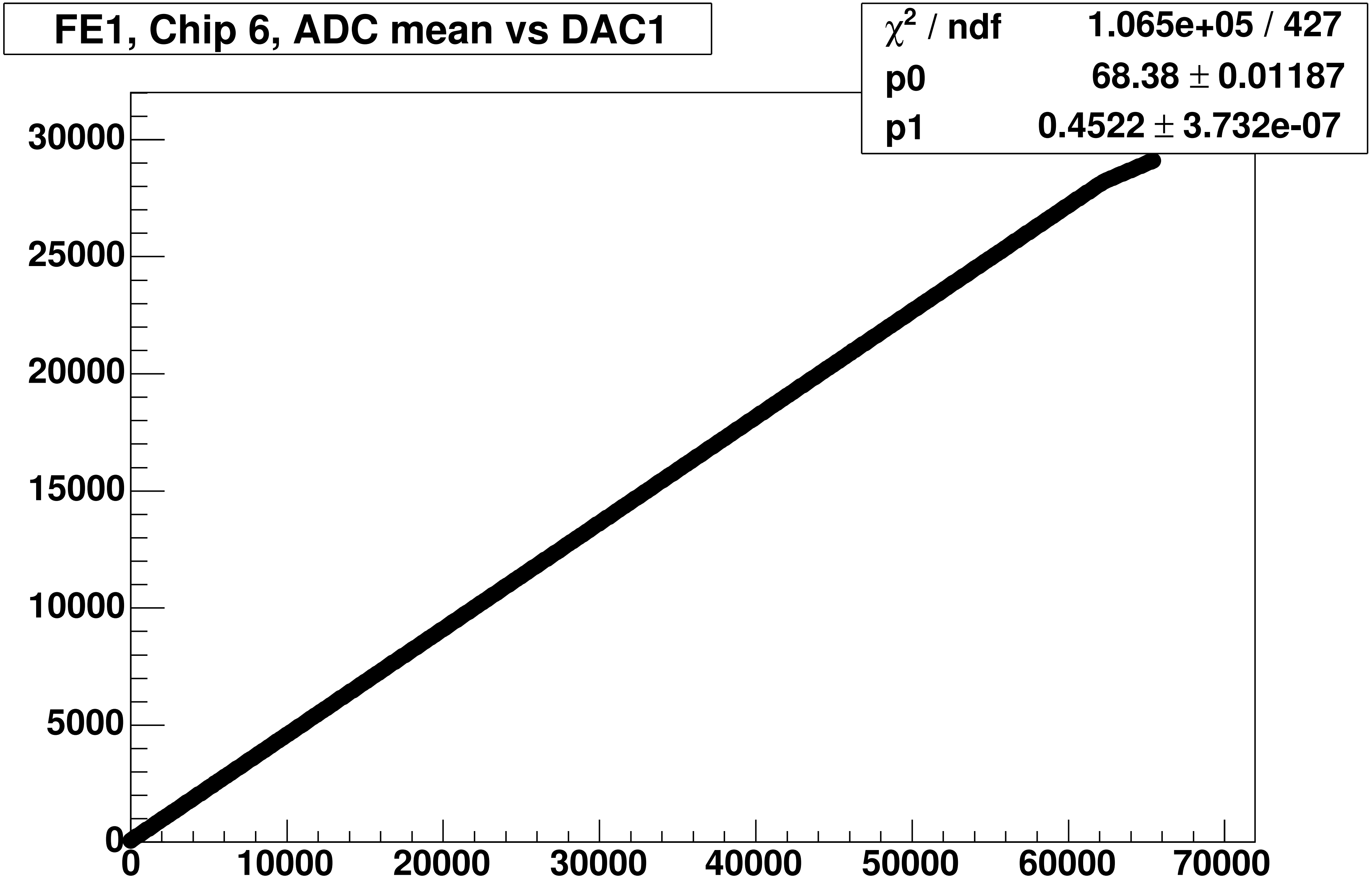
FE1, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000
70000

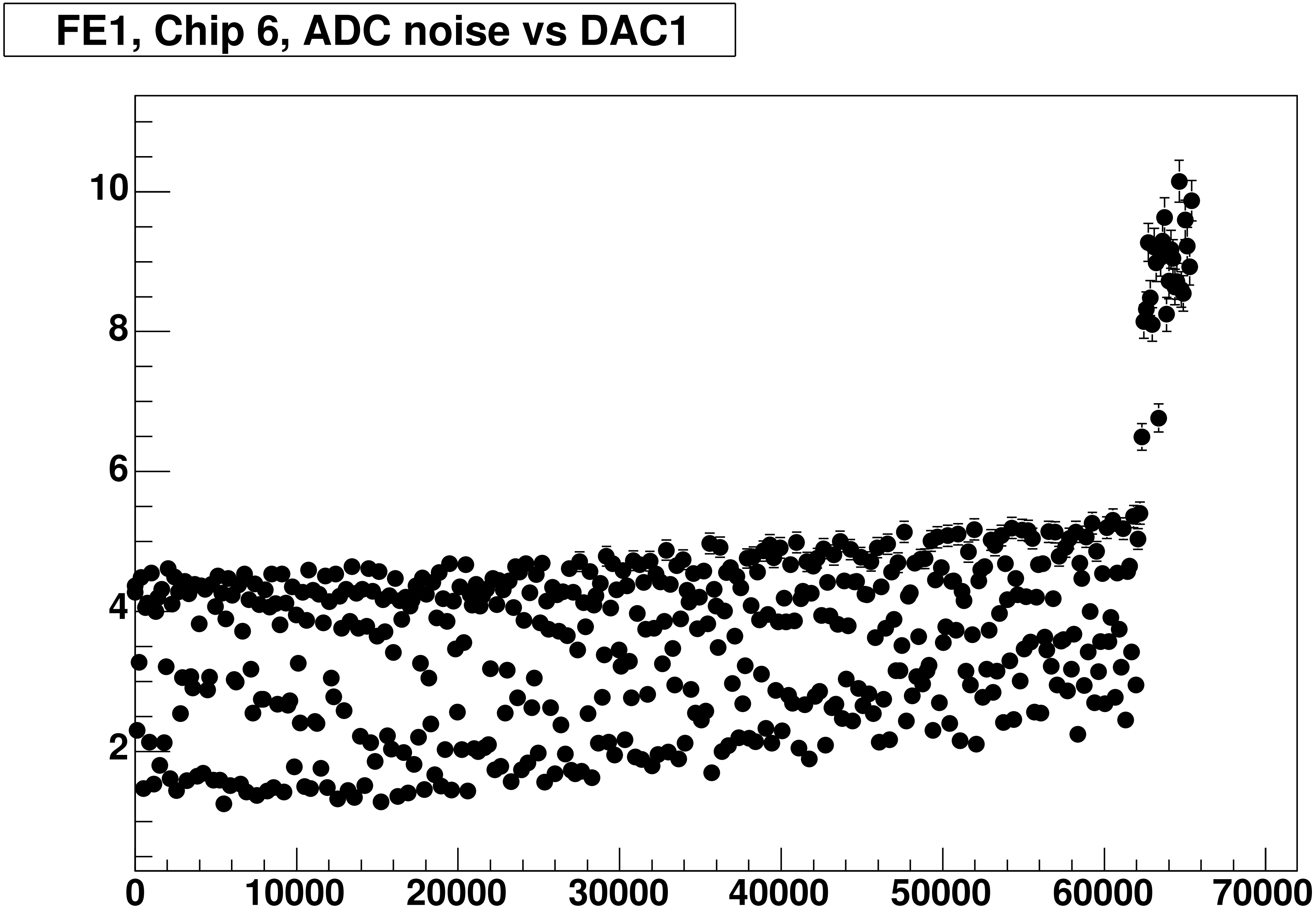

FE1, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 258.7 / 427
p0 71.45 ± 0.01961
p1 1.738e-06 ± 5.424e-07
72
71.8
71.6
71.4
71.2
71
70.8
70.6
0
10000
20000
30000
40000
50000
60000
70000

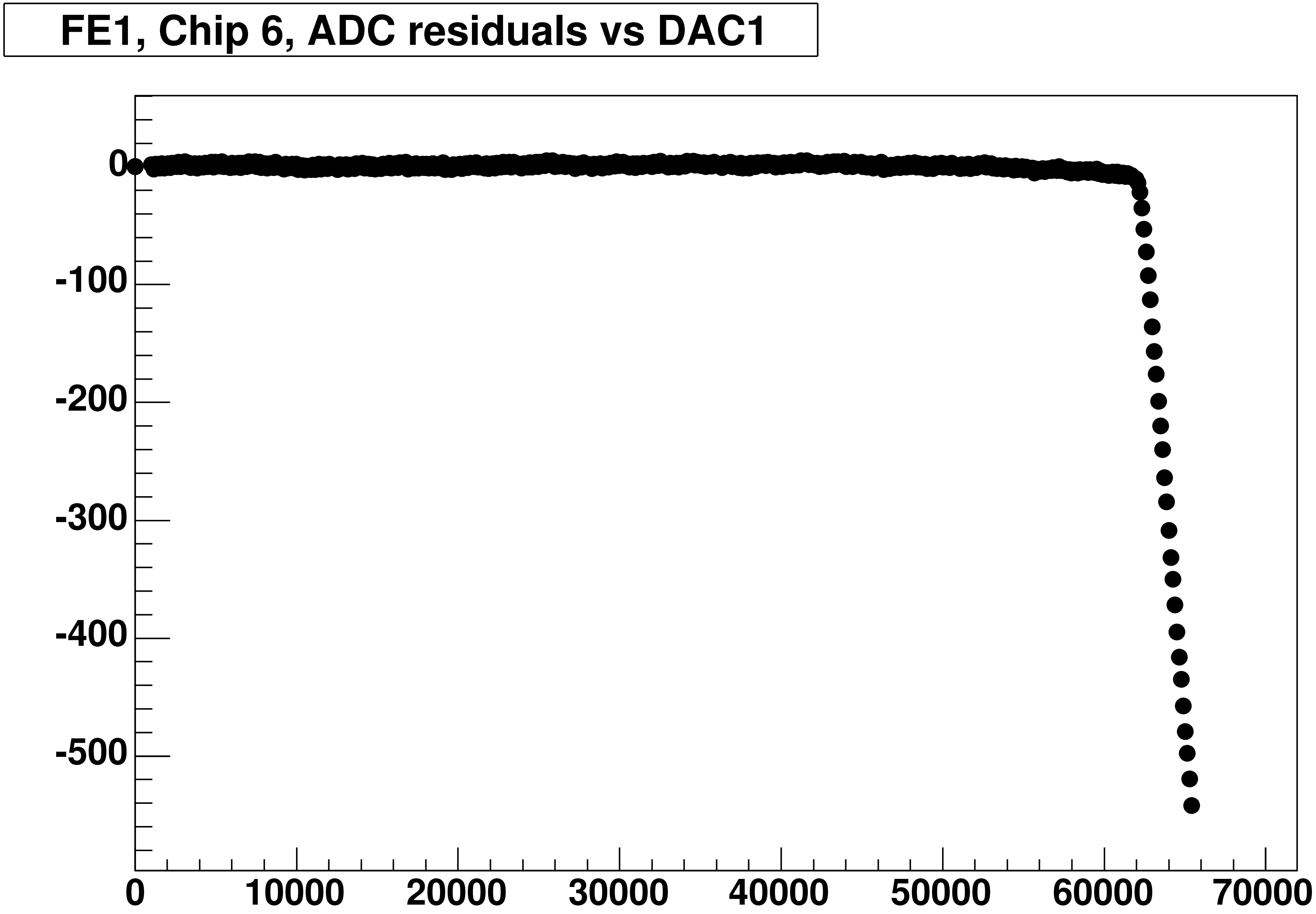

FE1, Chip 6, ADC noise vs DAC0
5.4
5.2
5
4.8
4.6
4.4
4.2
4
0
10000
20000
30000
40000
50000
60000
70000



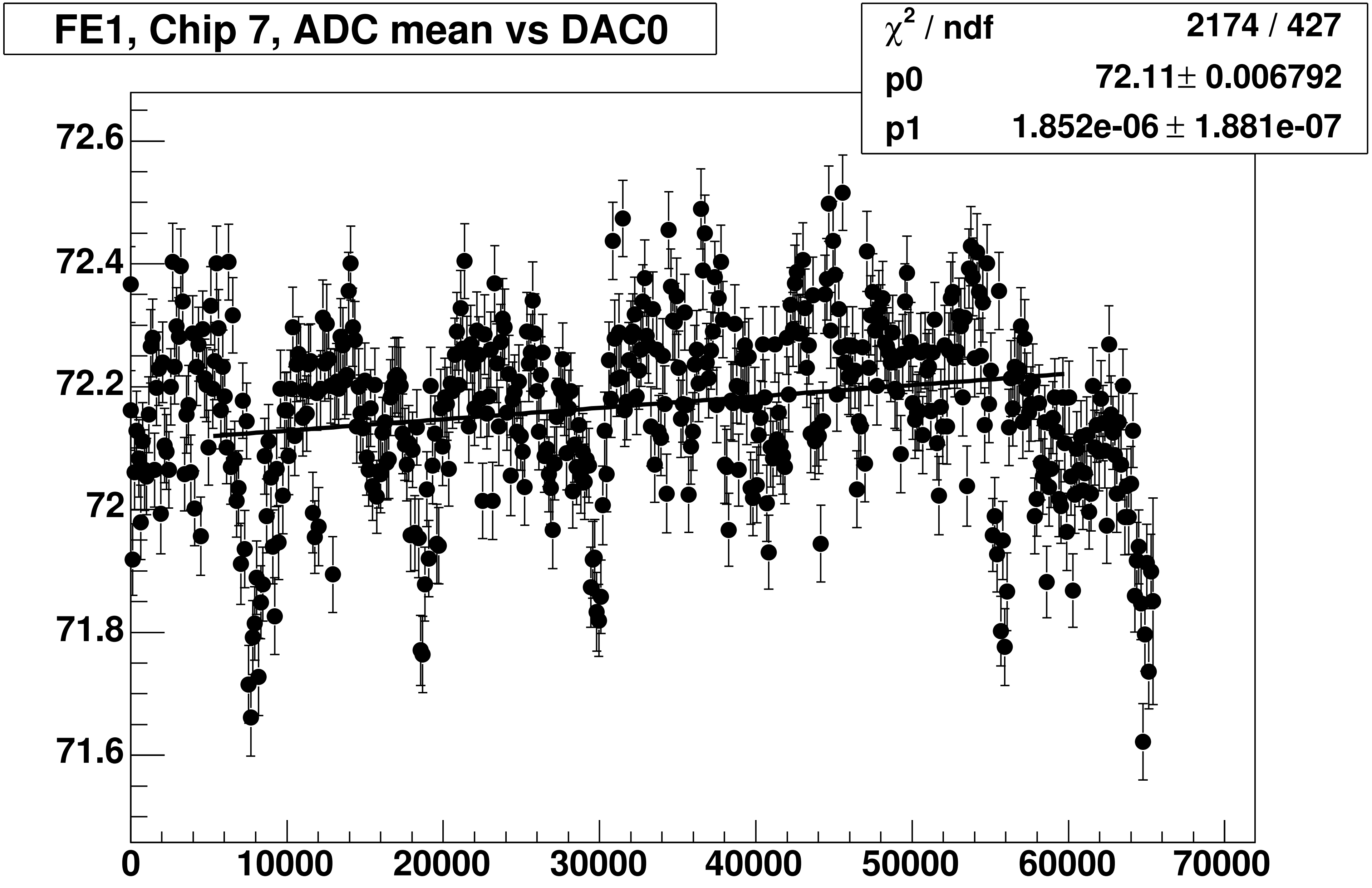
FE1, Chip 6, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
10000
20000
30000
40000
50000
60000
70000


FE1, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 1.065e+05 / 427
p0 68.38 ± 0.01187
p1 0.4522 ± 3.732e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000

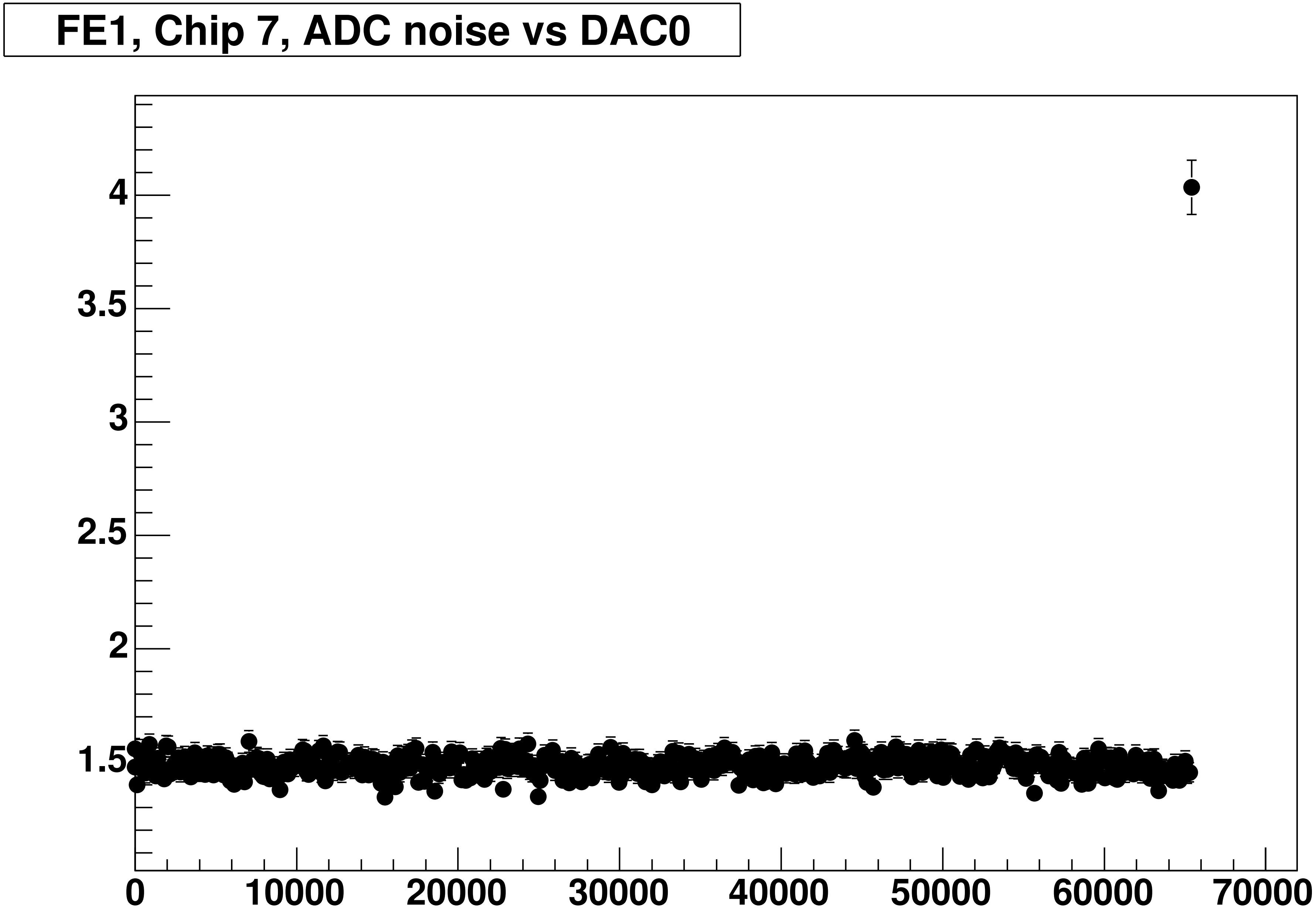

FE1, Chip 6, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000



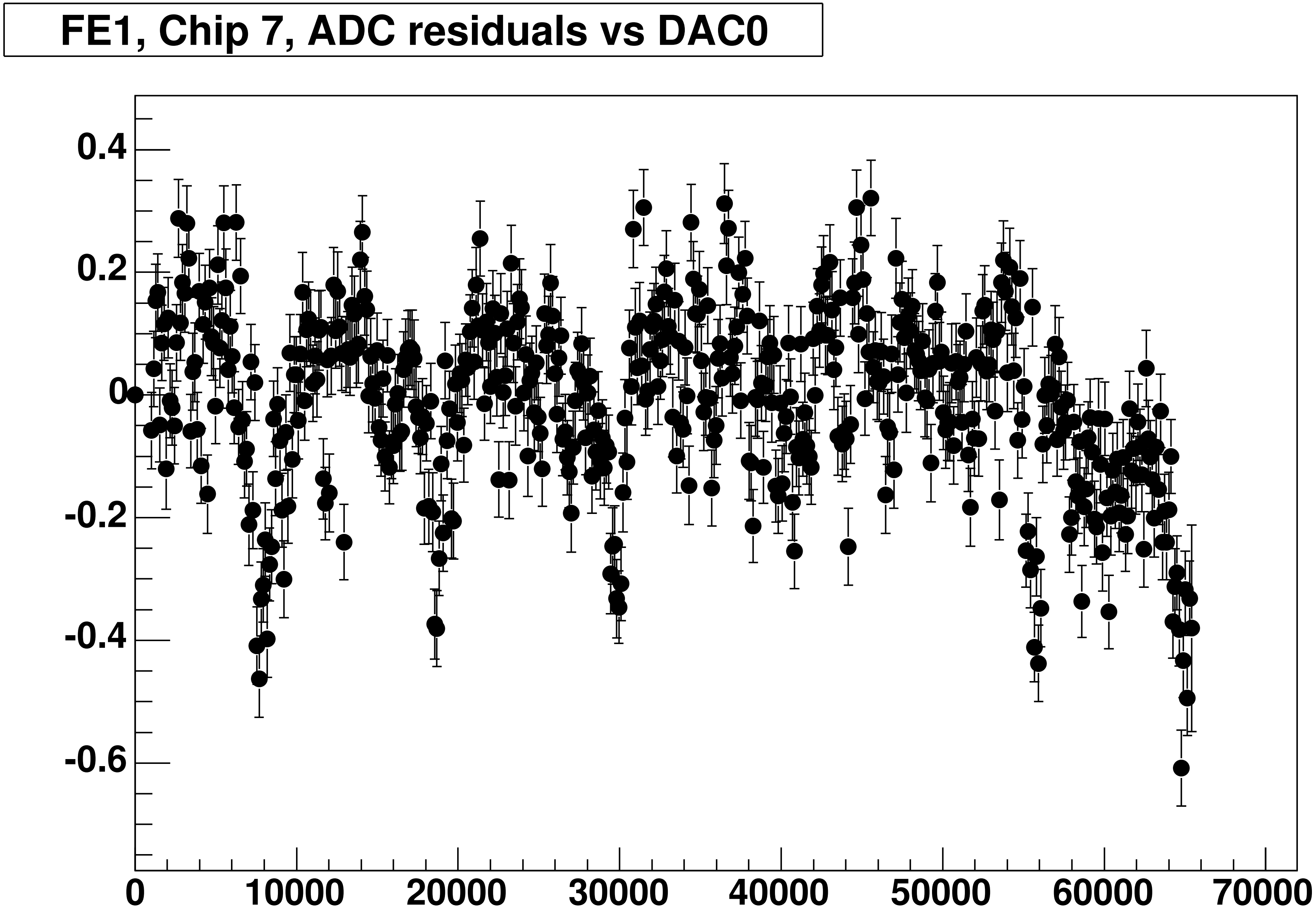
FE1, Chip 6, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000

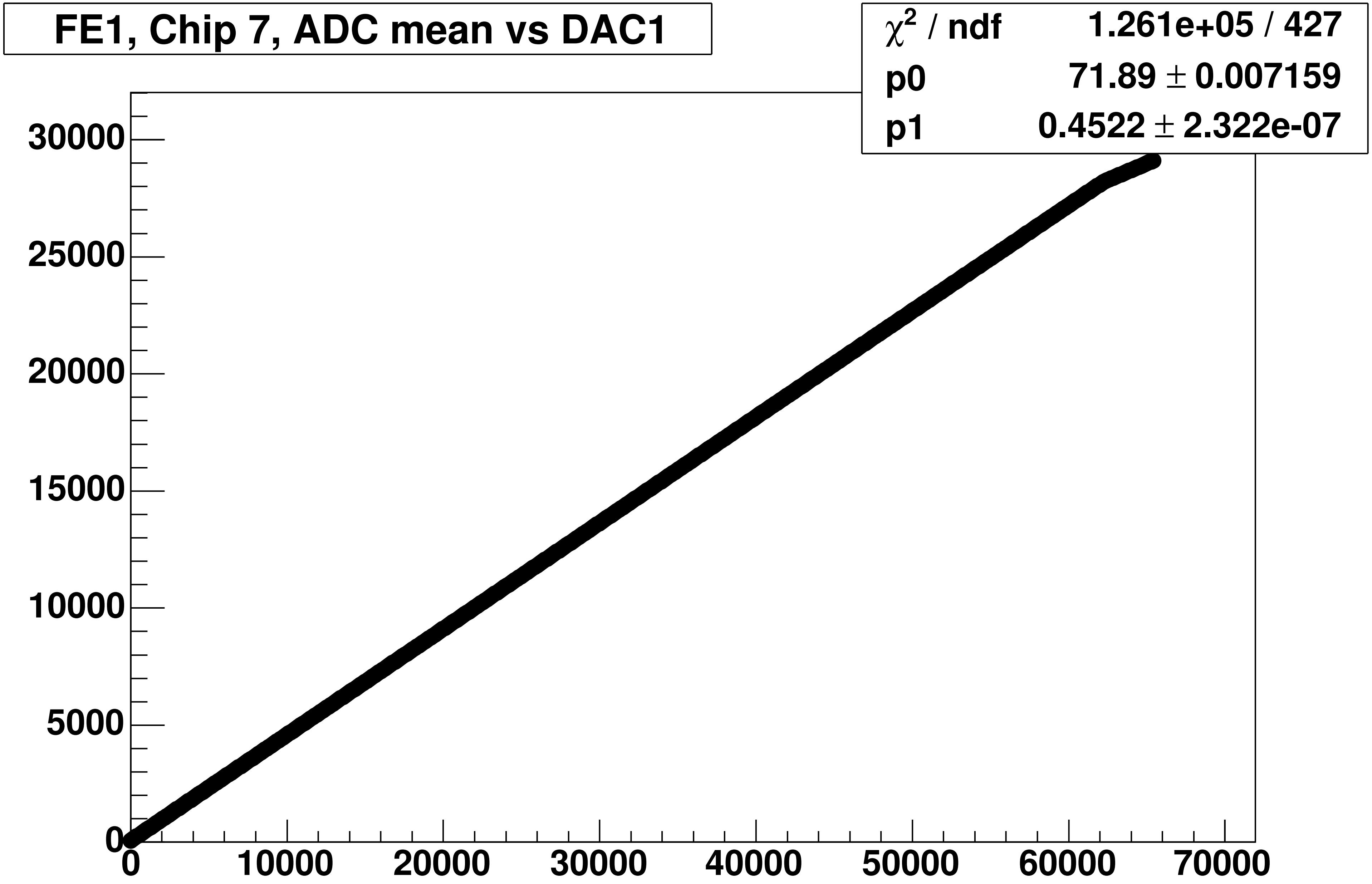


FE1, Chip 7, ADC mean vs DAC0
$\chi^2$ / ndf 2174 / 427
p0 72.11± 0.006792
p1 1.852e-06 ± 1.881e-07
72.6
72.4
72.2
72
71.8
71.6
0
10000
20000
30000
40000
50000
60000
70000

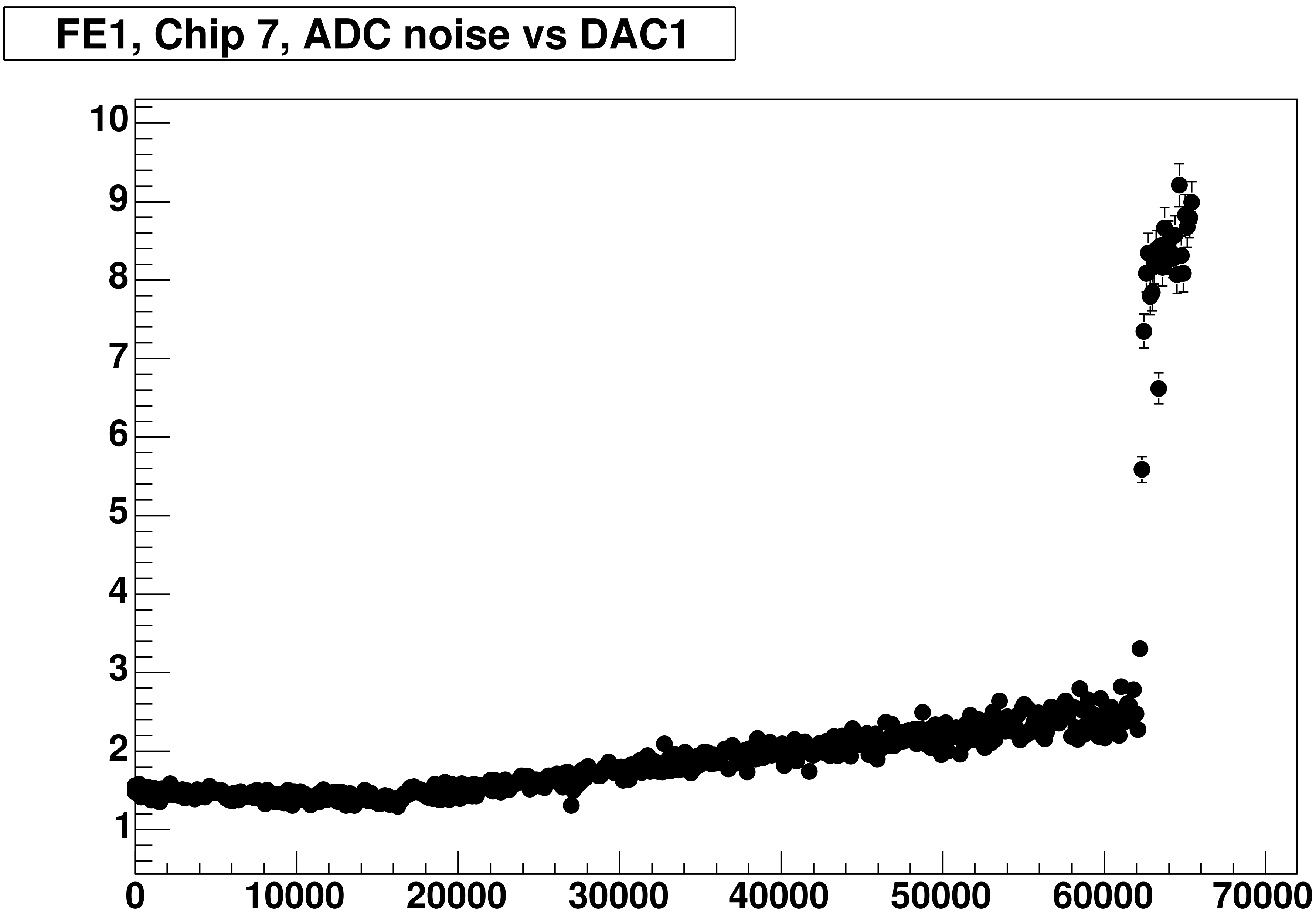


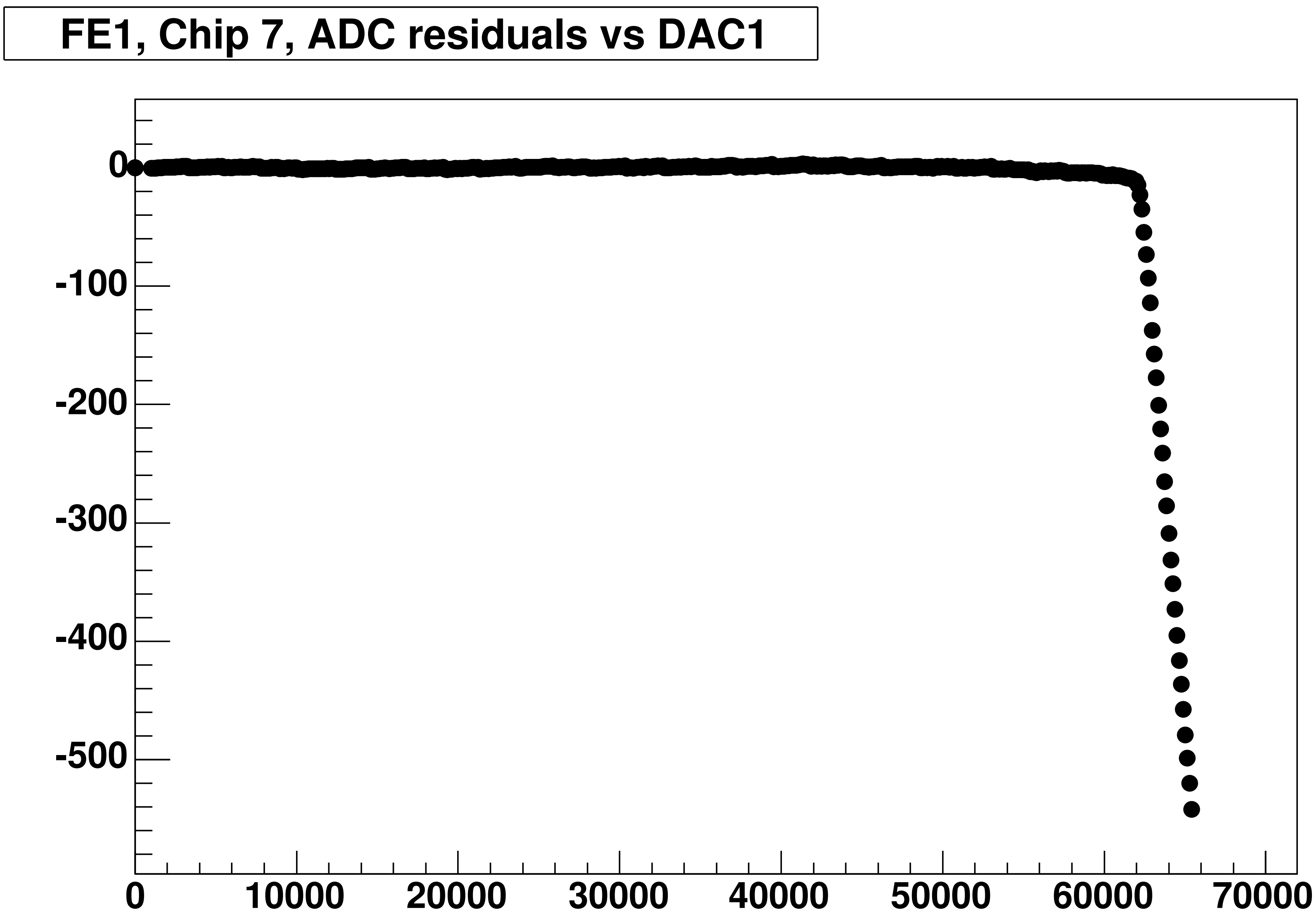
FE1, Chip 7, ADC noise vs DAC0
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000
70000

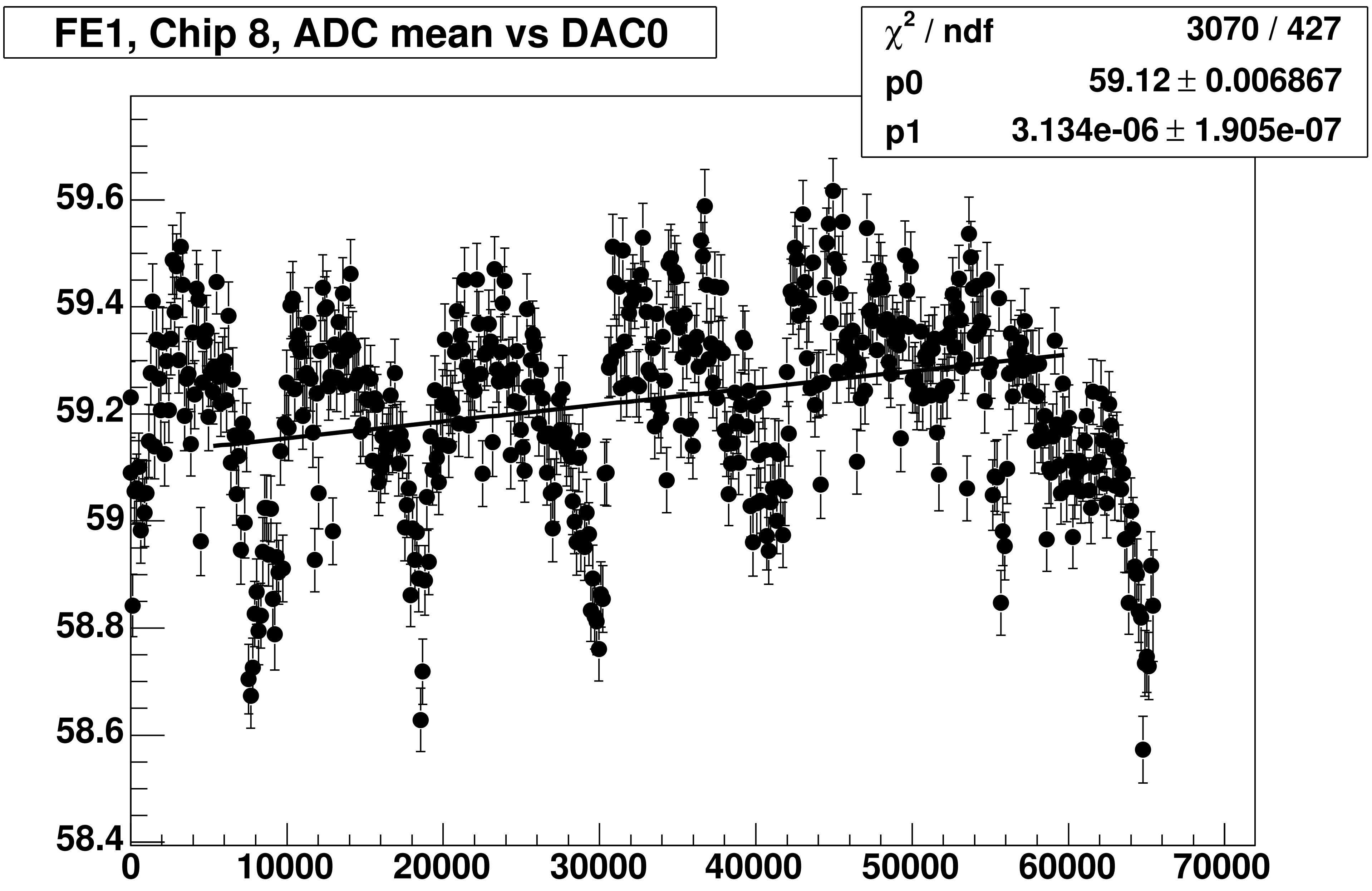

FE1, Chip 7, ADC residuals vs DAC0
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000

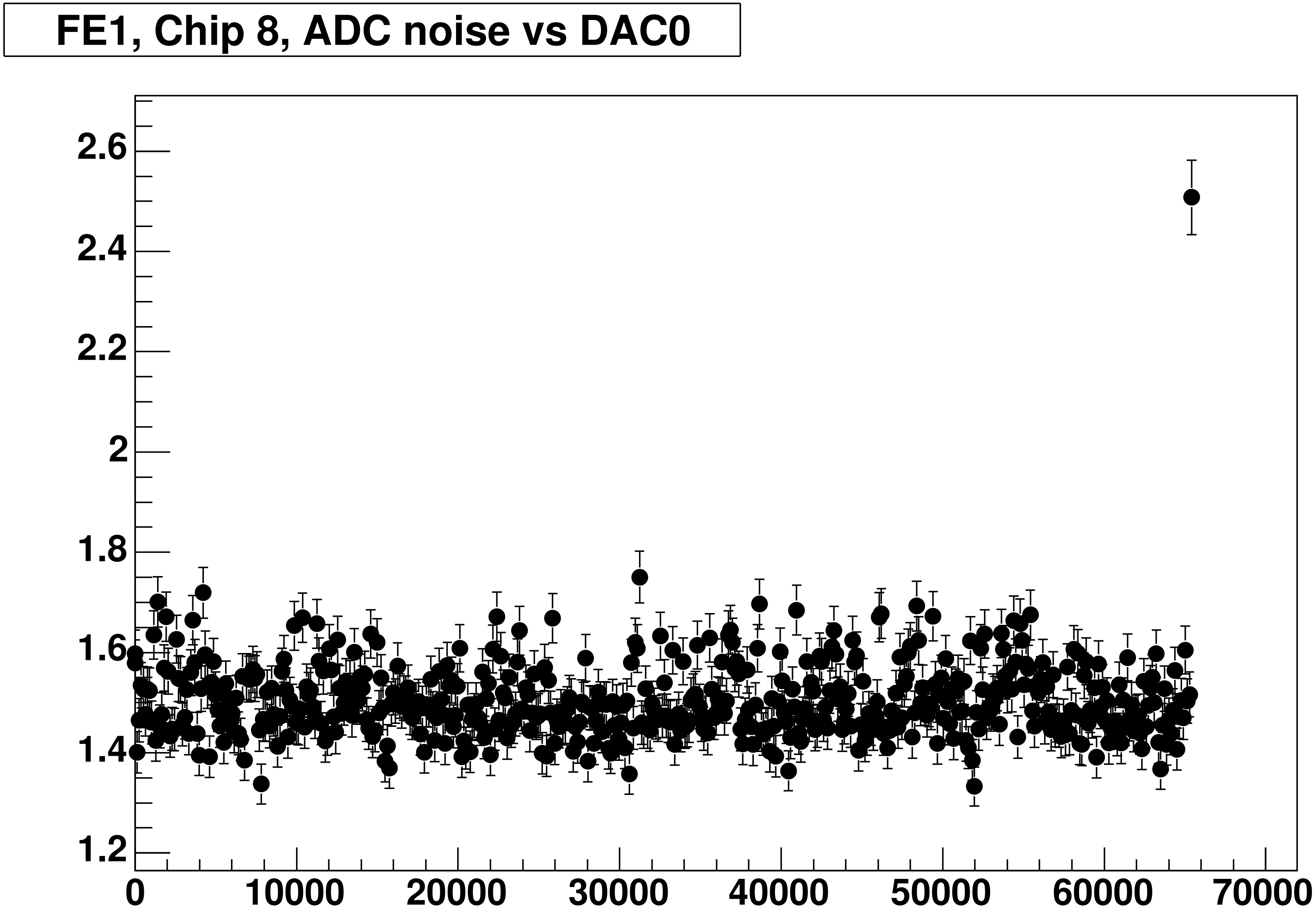


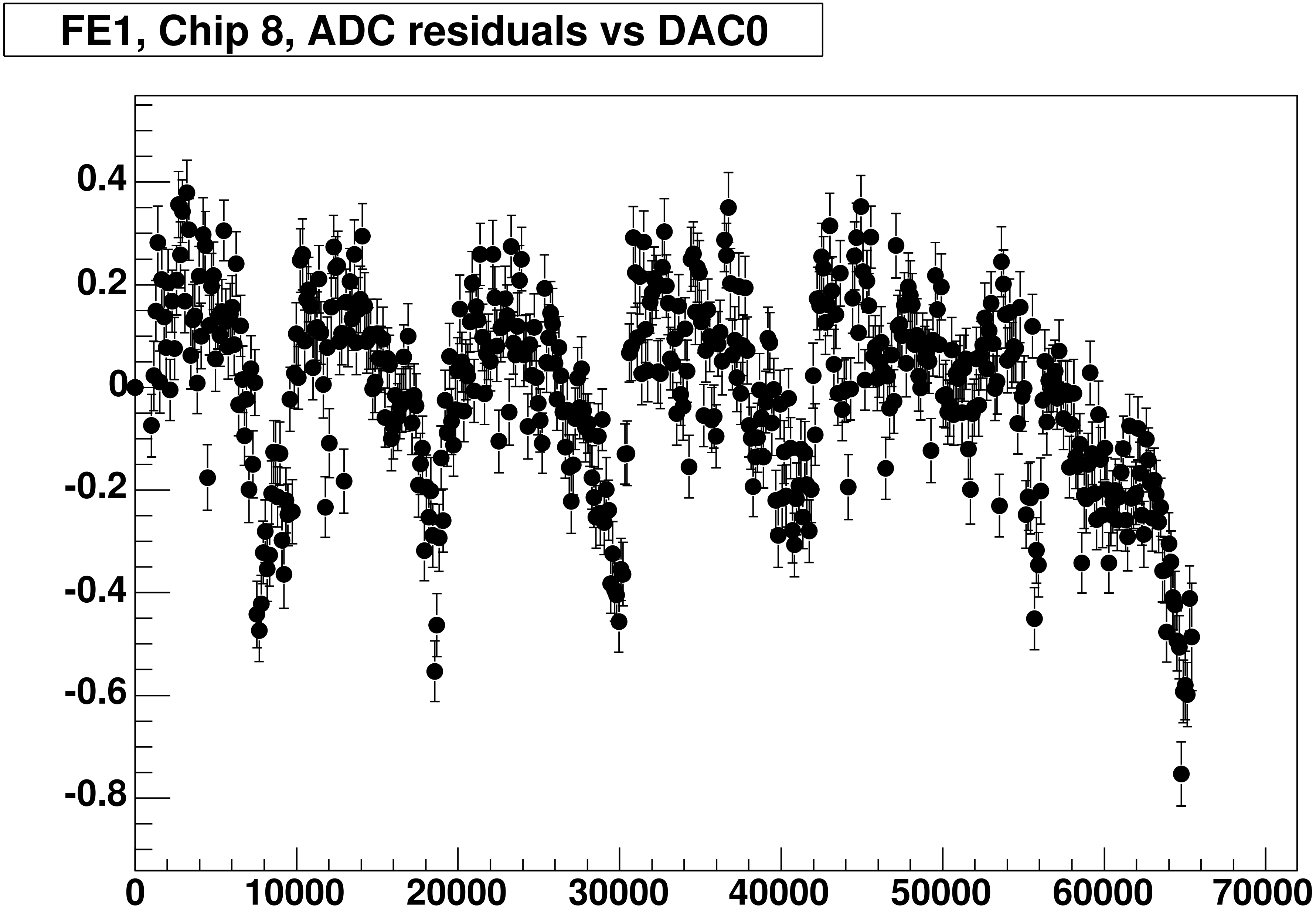
FE1, Chip 7, ADC mean vs DAC1
χ2 / ndf 1.261e+05 / 427
p0 71.89 ± 0.007159
p1 0.4522 ± 2.322e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

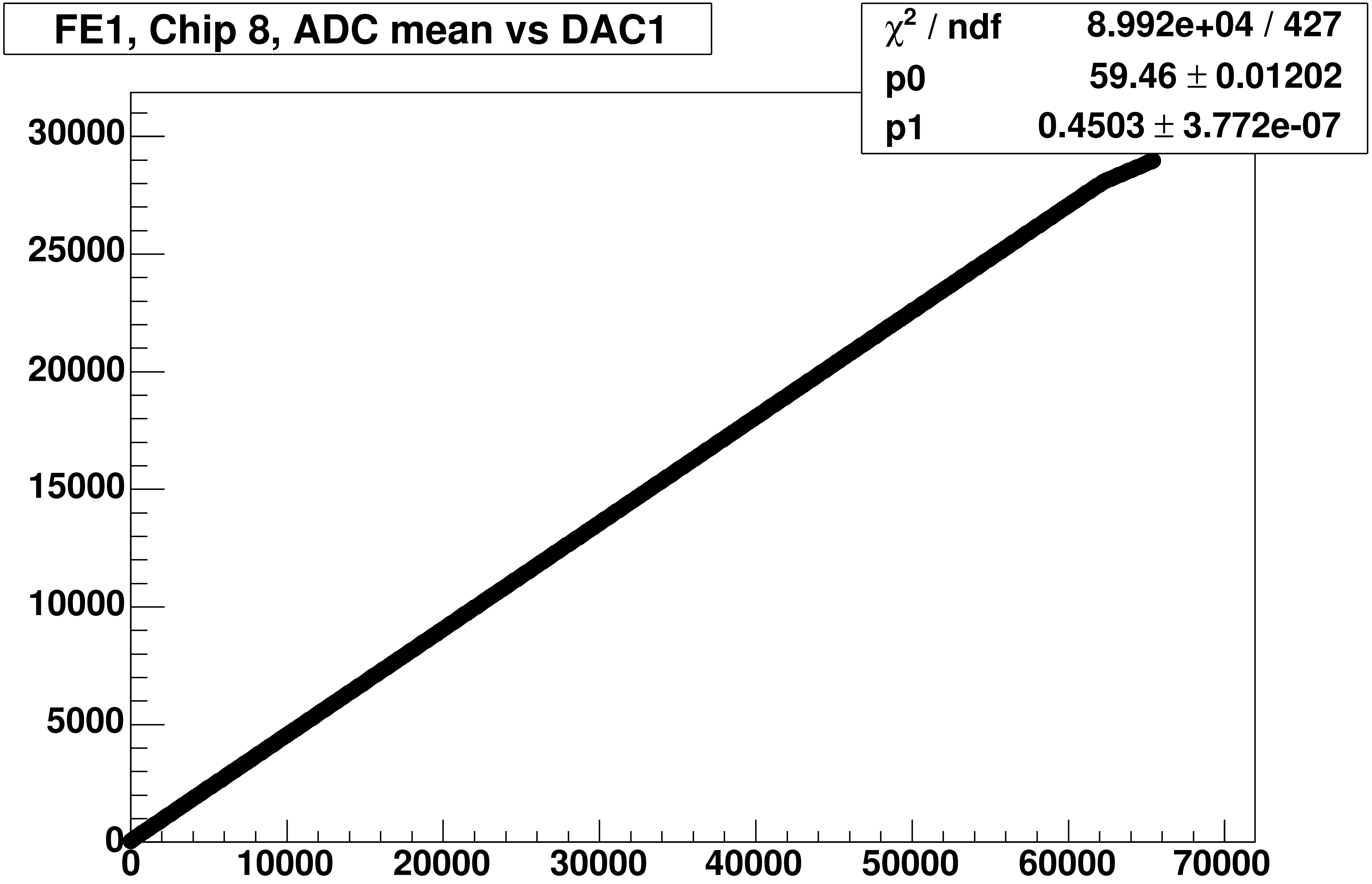

FE1, Chip 7, ADC noise vs DAC1
10
9
8
7
6
5
4
3
2
1
0
10000
20000
30000
40000
50000
60000
70000


FE1, Chip 7, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000

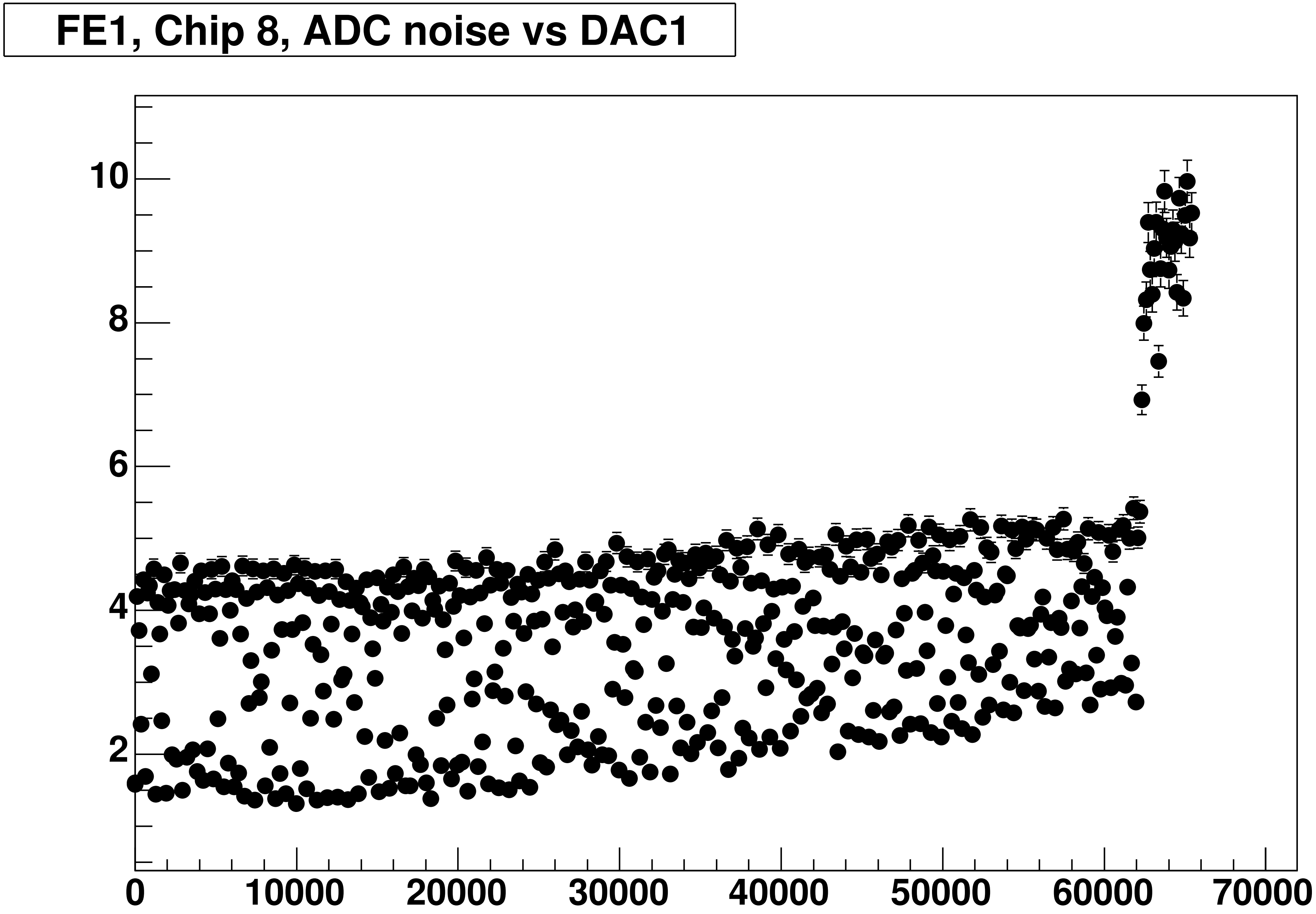

FE1, Chip 8, ADC mean vs DAC0
$\chi^2$ / ndf 3070 / 427
p0 59.12 ± 0.006867
p1 3.134e-06 ± 1.905e-07
59.6
59.4
59.2
59
58.8
58.6
58.4
0
10000
20000
30000
40000
50000
60000
70000


FE1, Chip 8, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000
70000

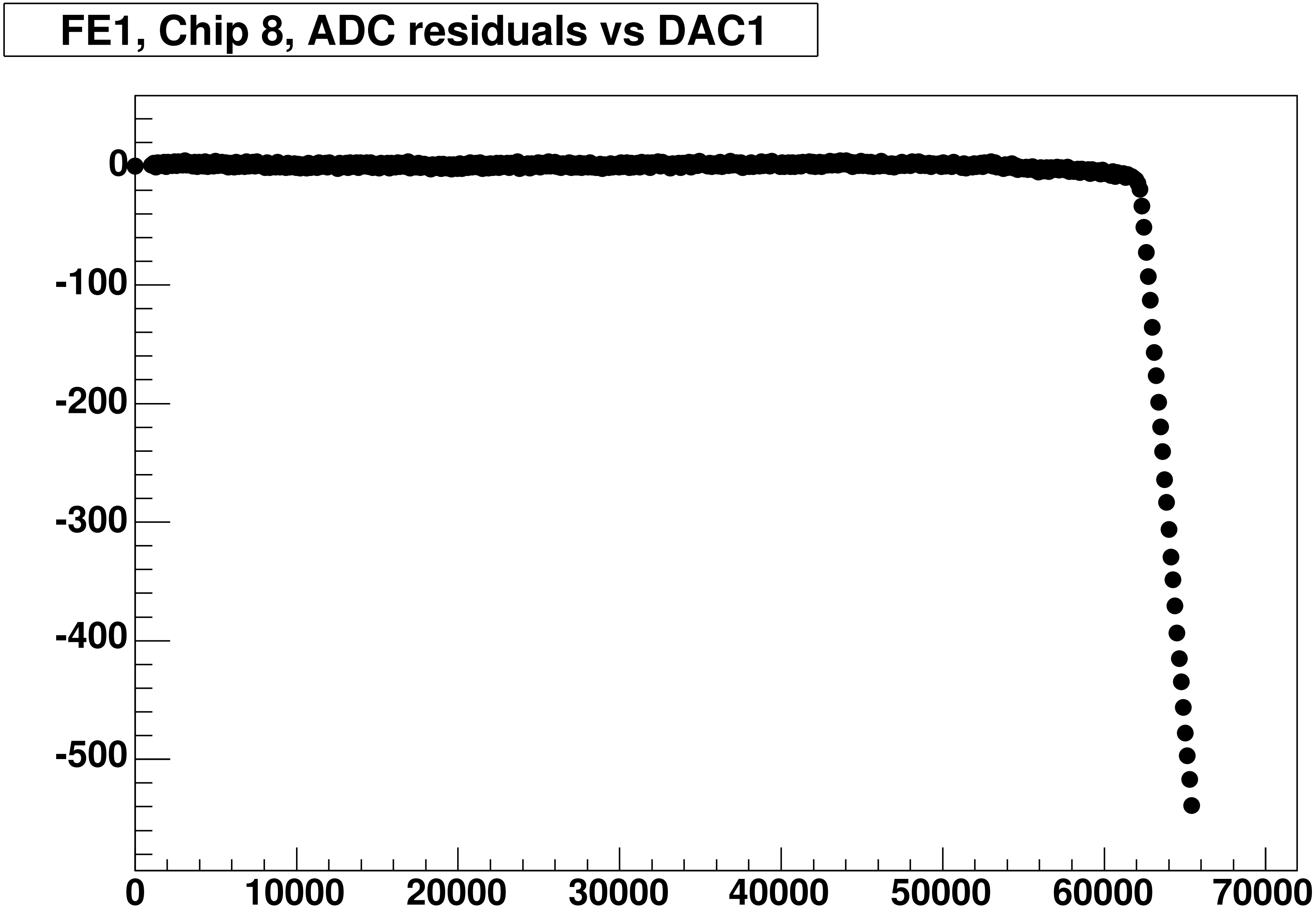

FE1, Chip 8, ADC residuals vs DAC0
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
0
10000
20000
30000
40000
50000
60000
70000



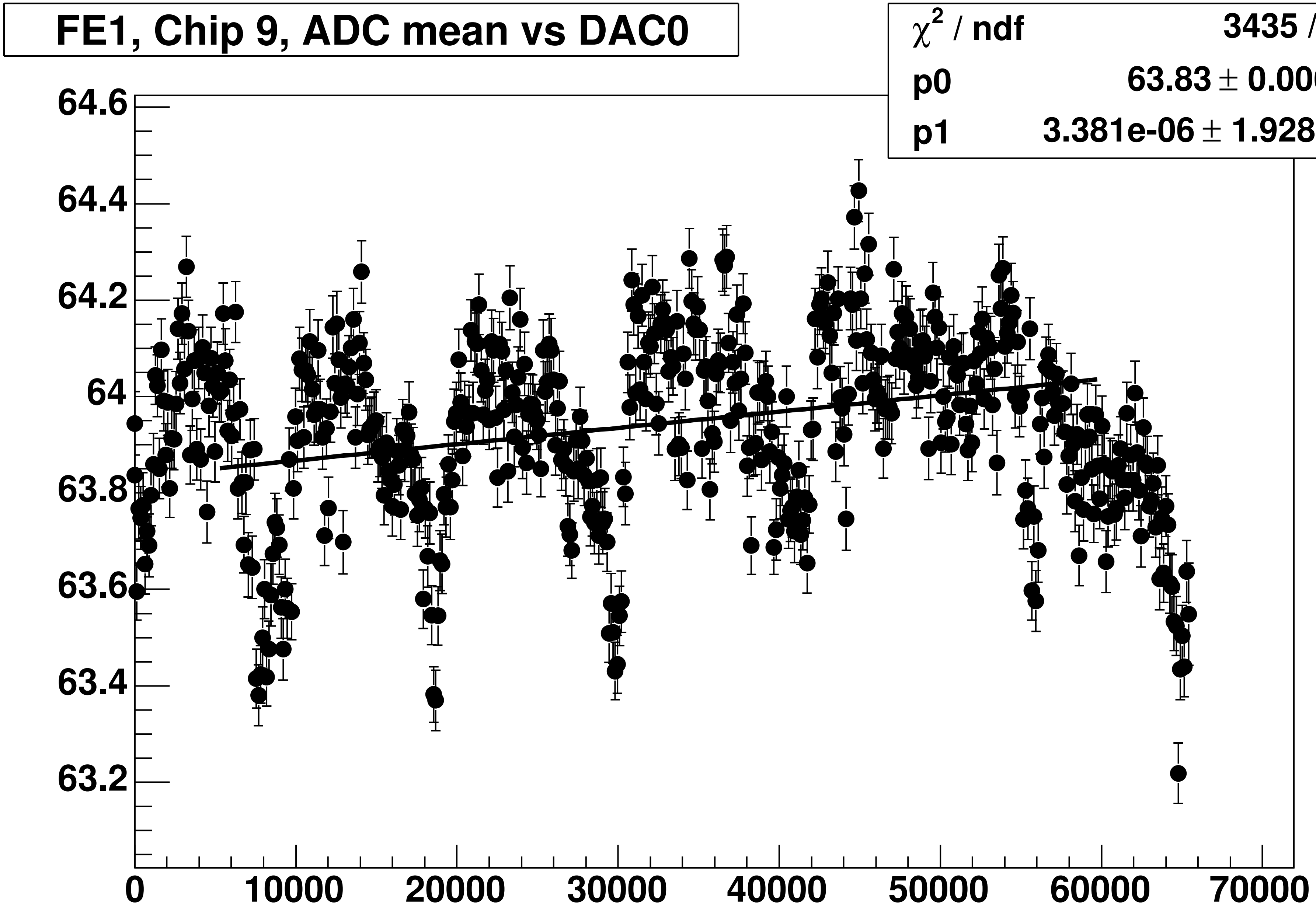
FE1, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 8.992e+04 / 427
p0 59.46 ± 0.01202
p1 0.4503 ± 3.772e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

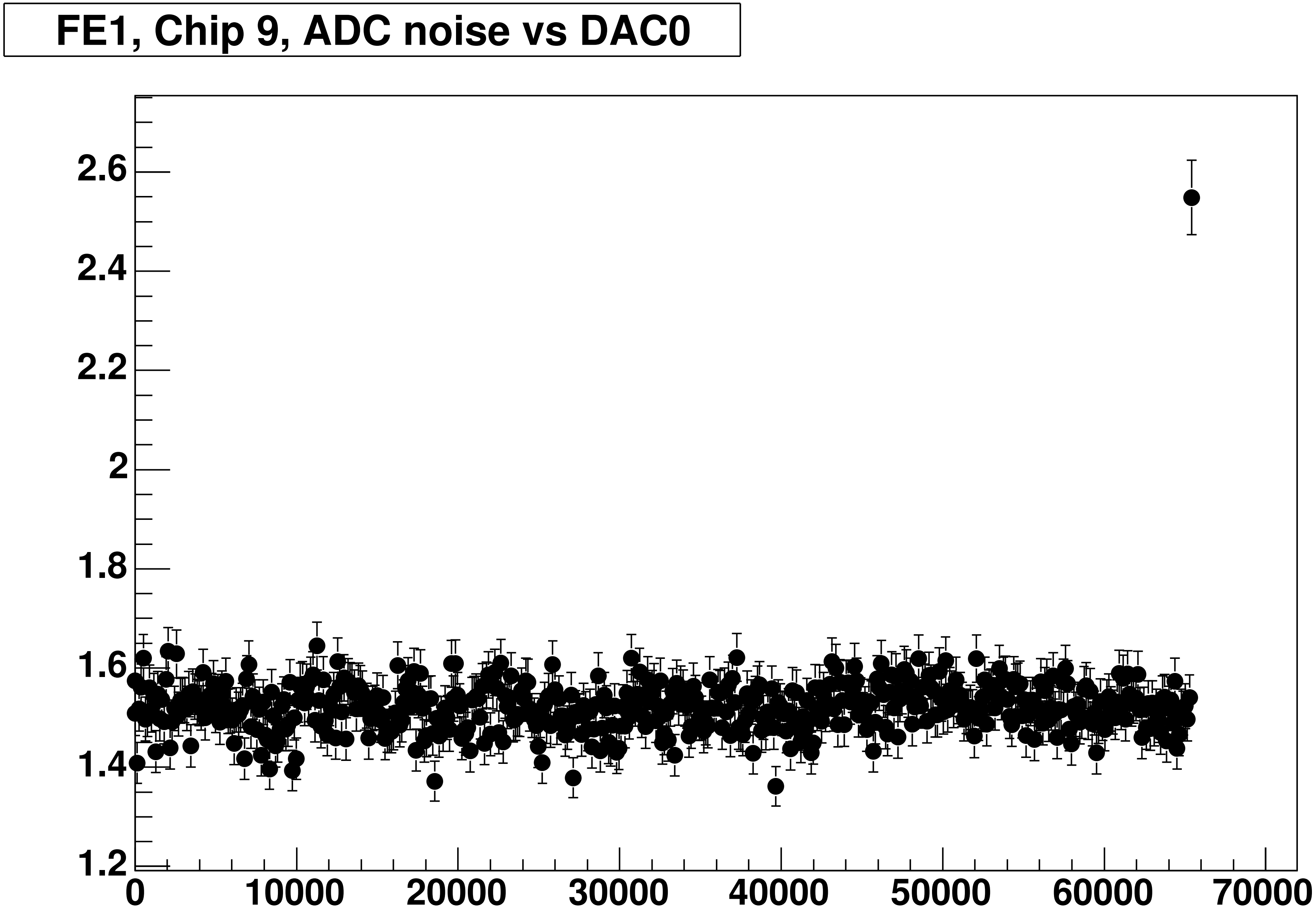


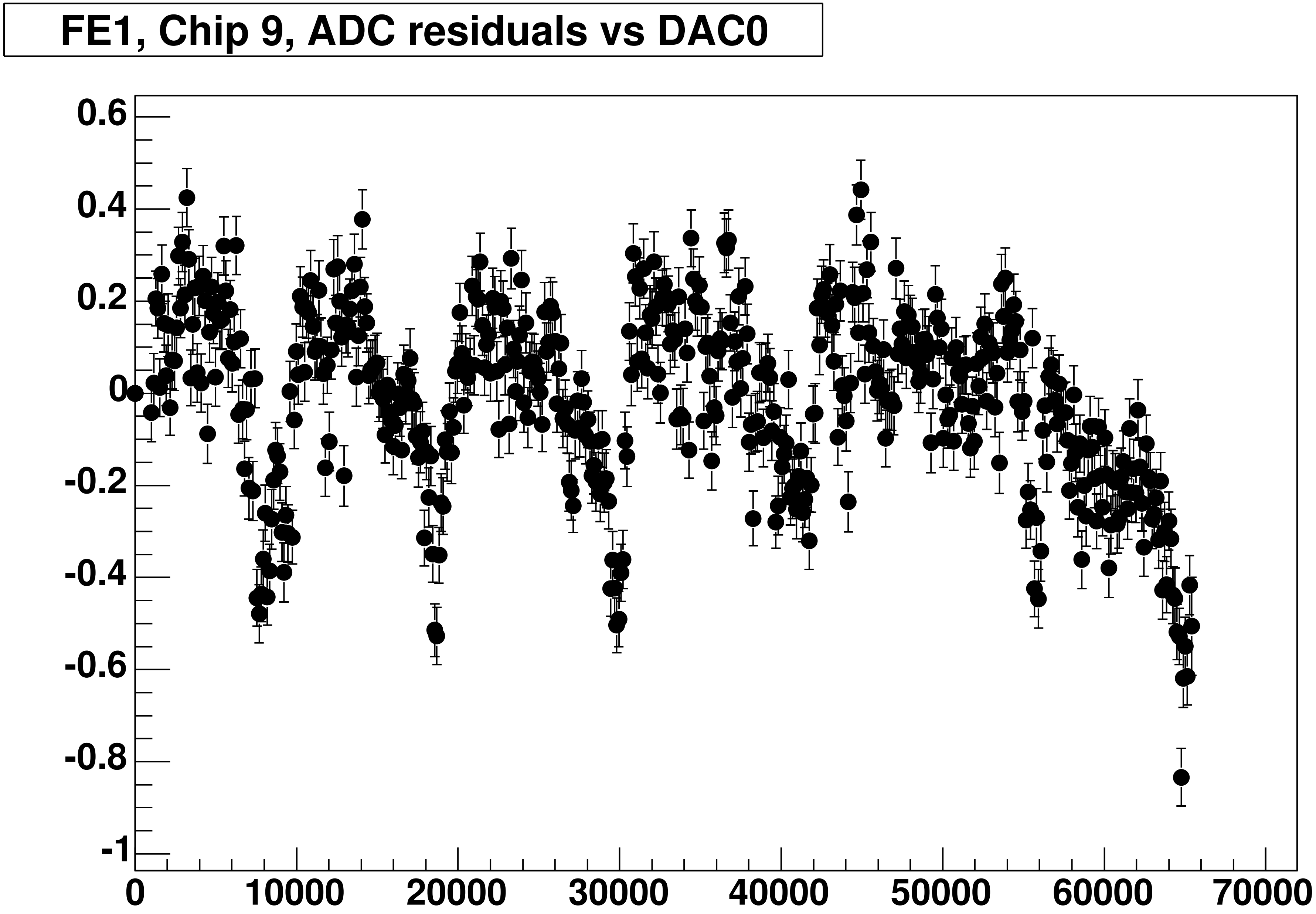
FE1, Chip 8, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000

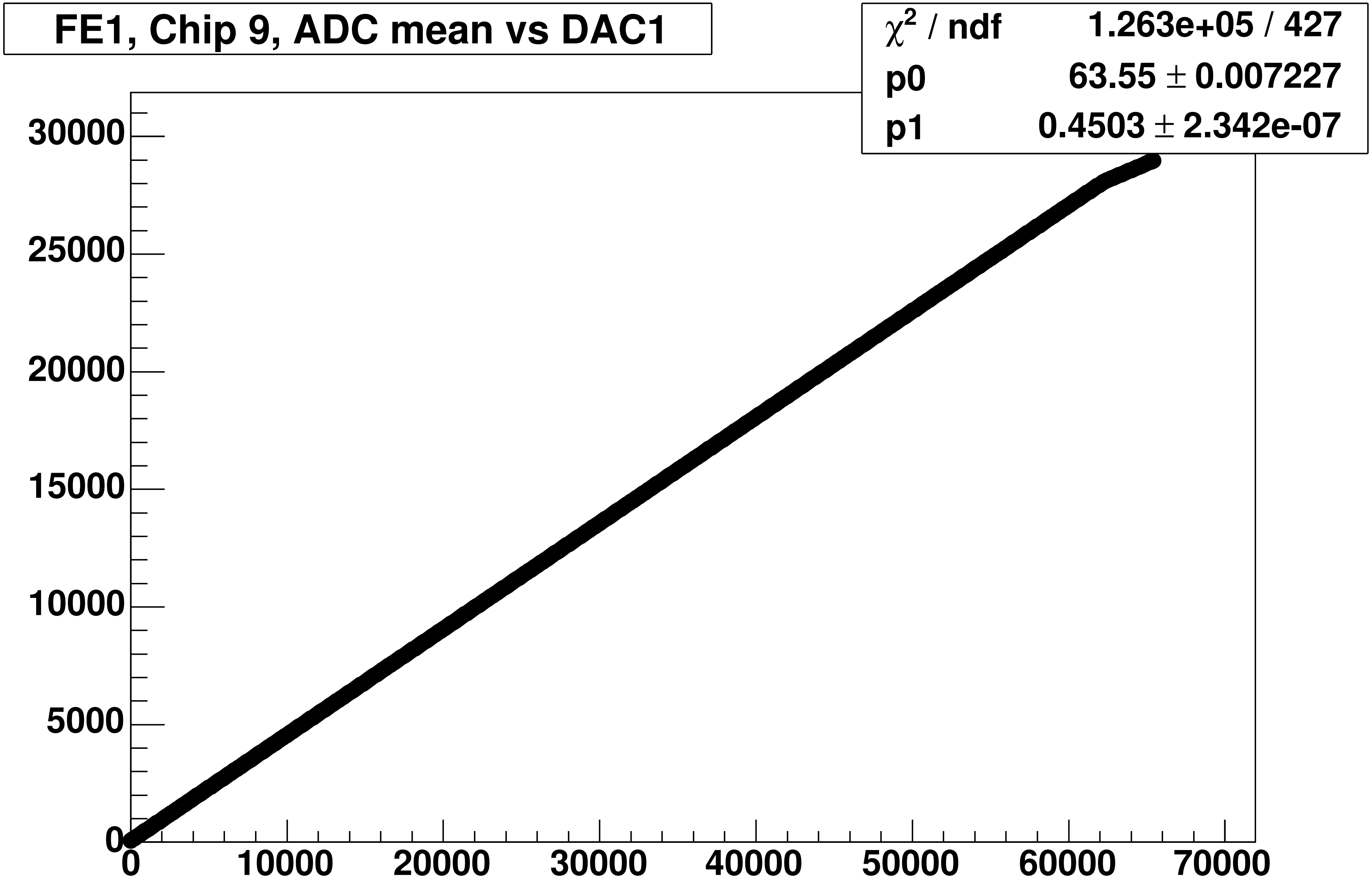


FE1, Chip 8, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000

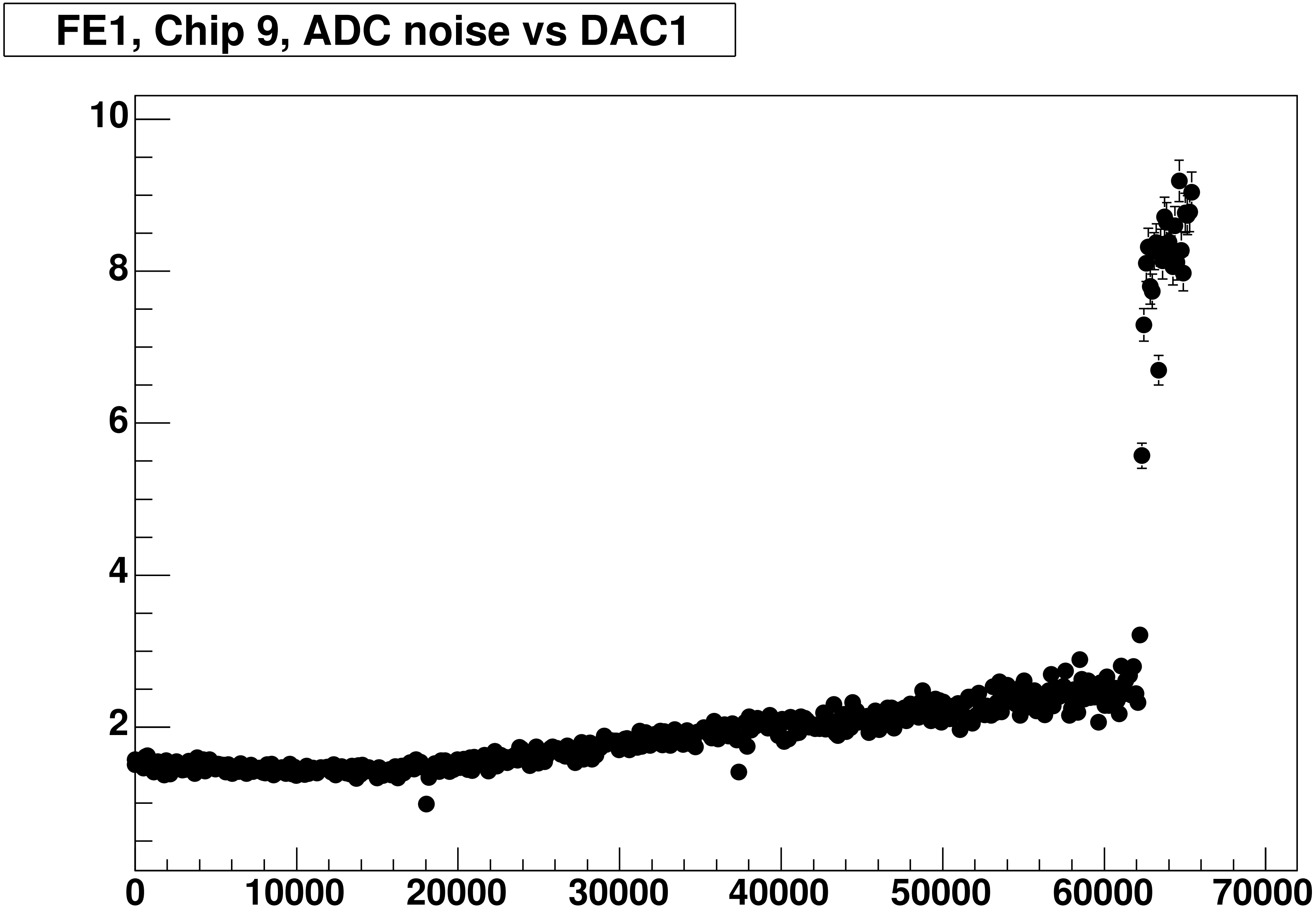

FE1, Chip 9, ADC mean vs DAC0
$\chi^2$ / ndf 3435 / 427
p0 63.83 ± 0.006951
p1 3.381e-06 ± 1.928e-07
64.6
64.4
64.2
64
63.8
63.6
63.4
63.2
0
10000
20000
30000
40000
50000
60000
70000

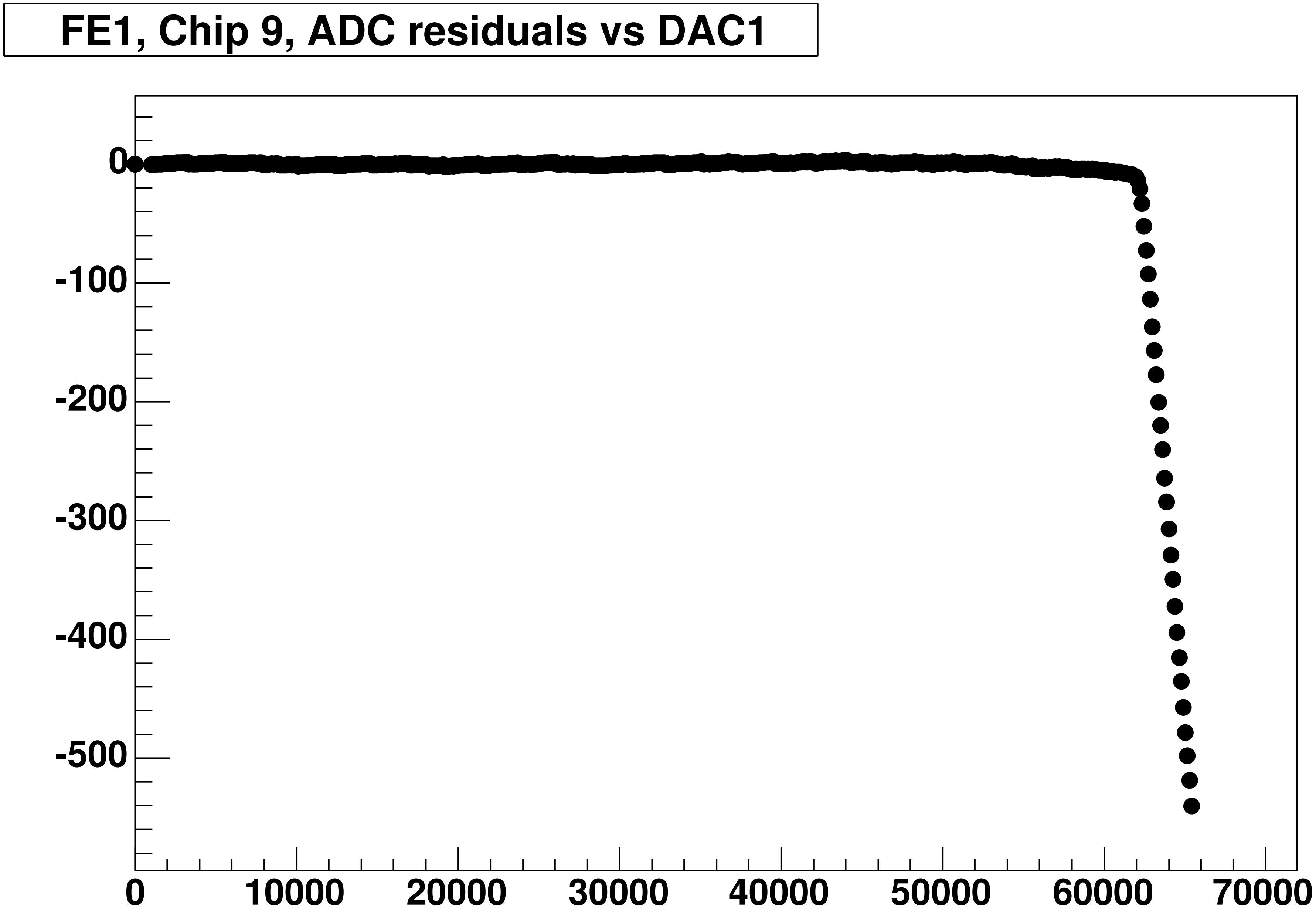

FE1, Chip 9, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000
70000

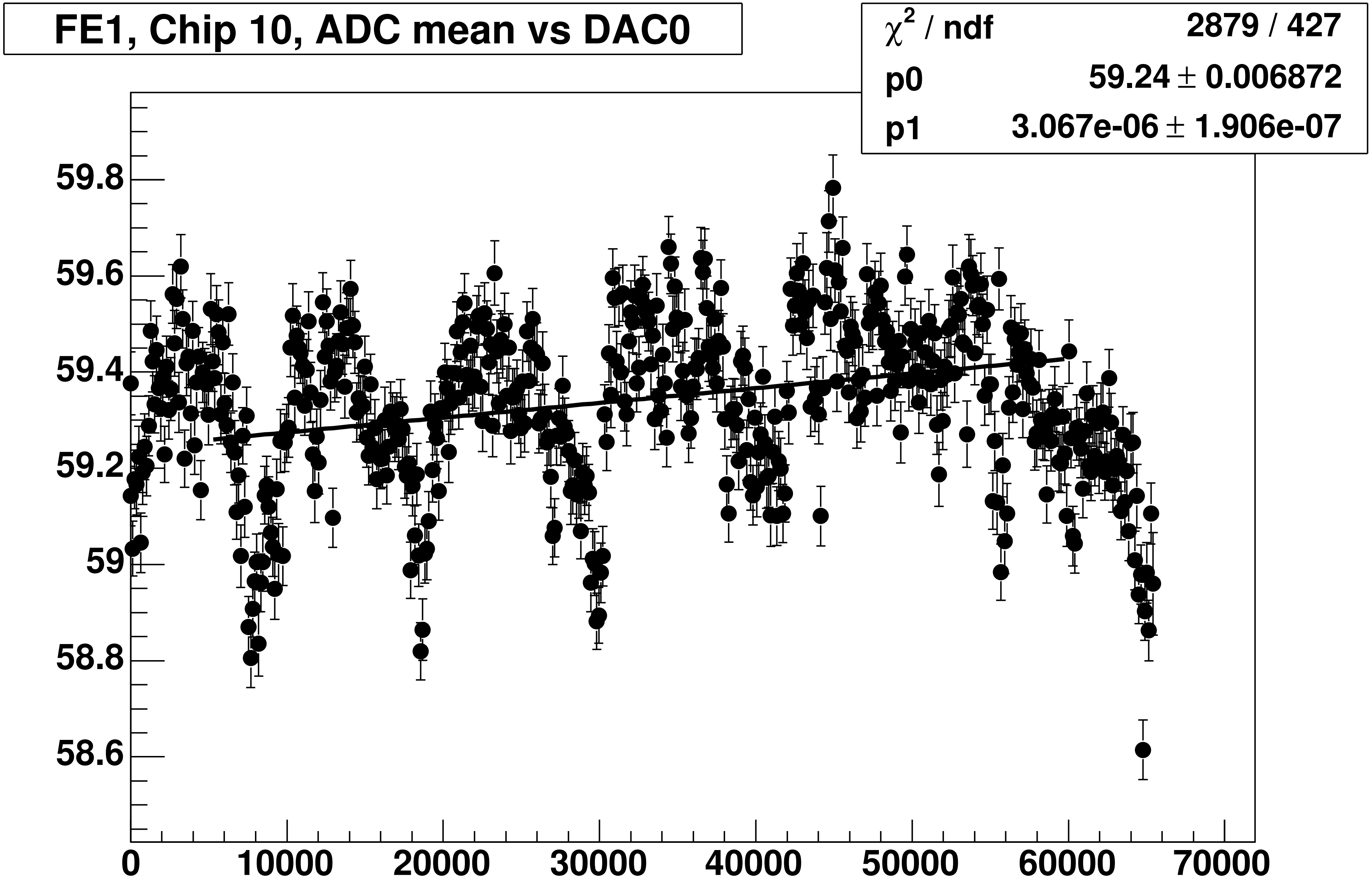

FE1, Chip 9, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
10000
20000
30000
40000
50000
60000
70000

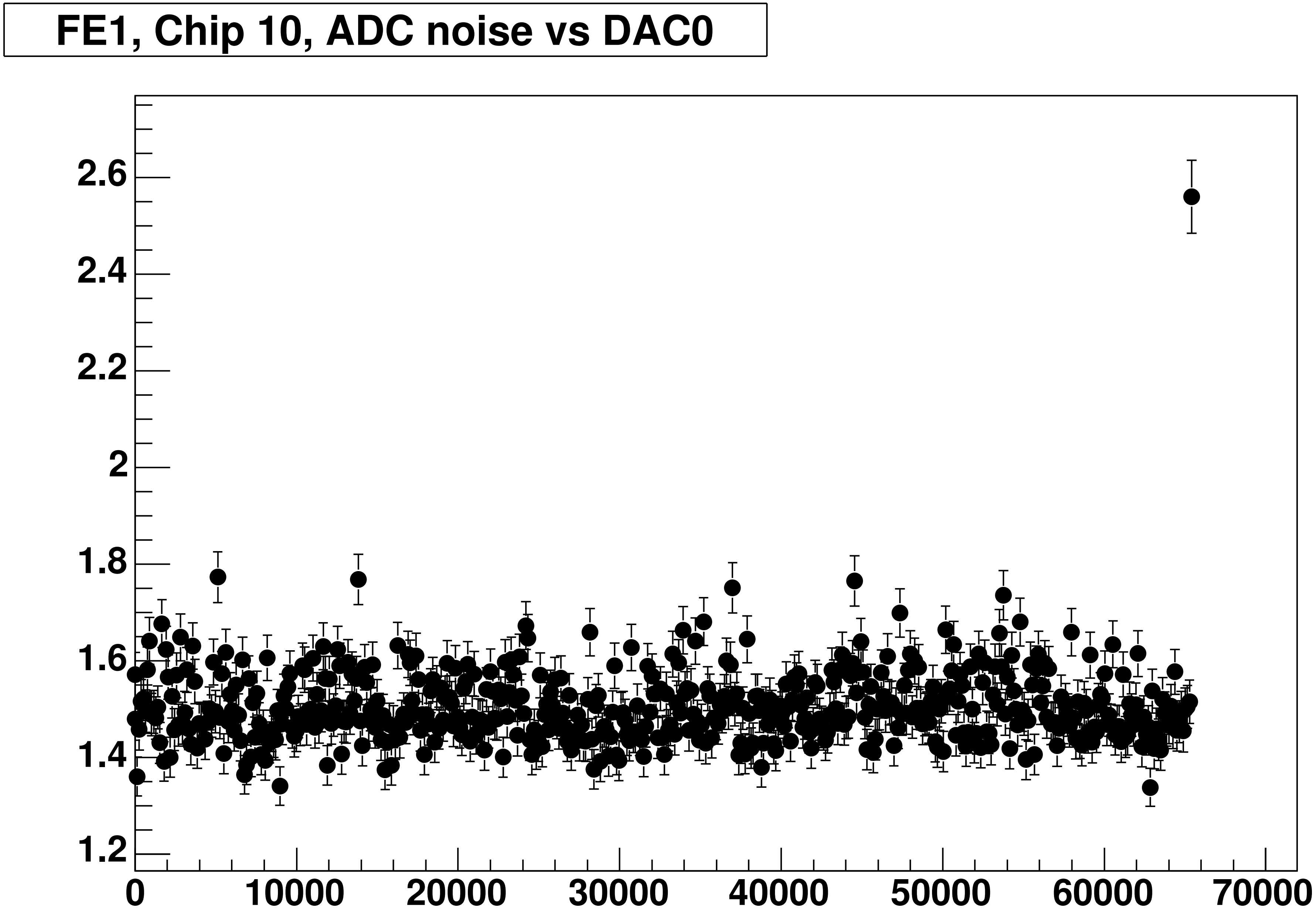


FE1, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 1.263e+05 / 427
p0 63.55 ± 0.007227
p1 0.4503 ± 2.342e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

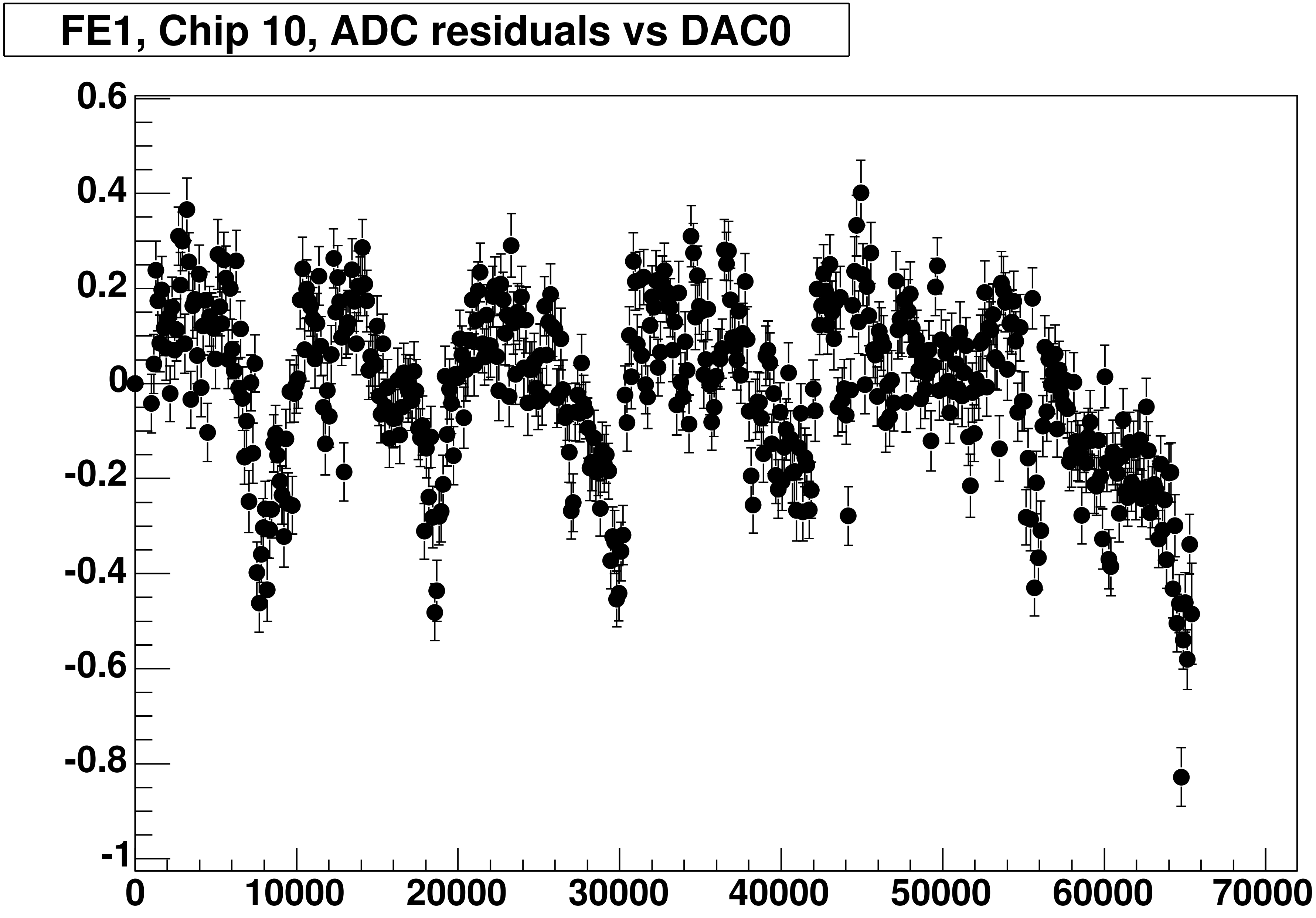

FE1, Chip 9, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000

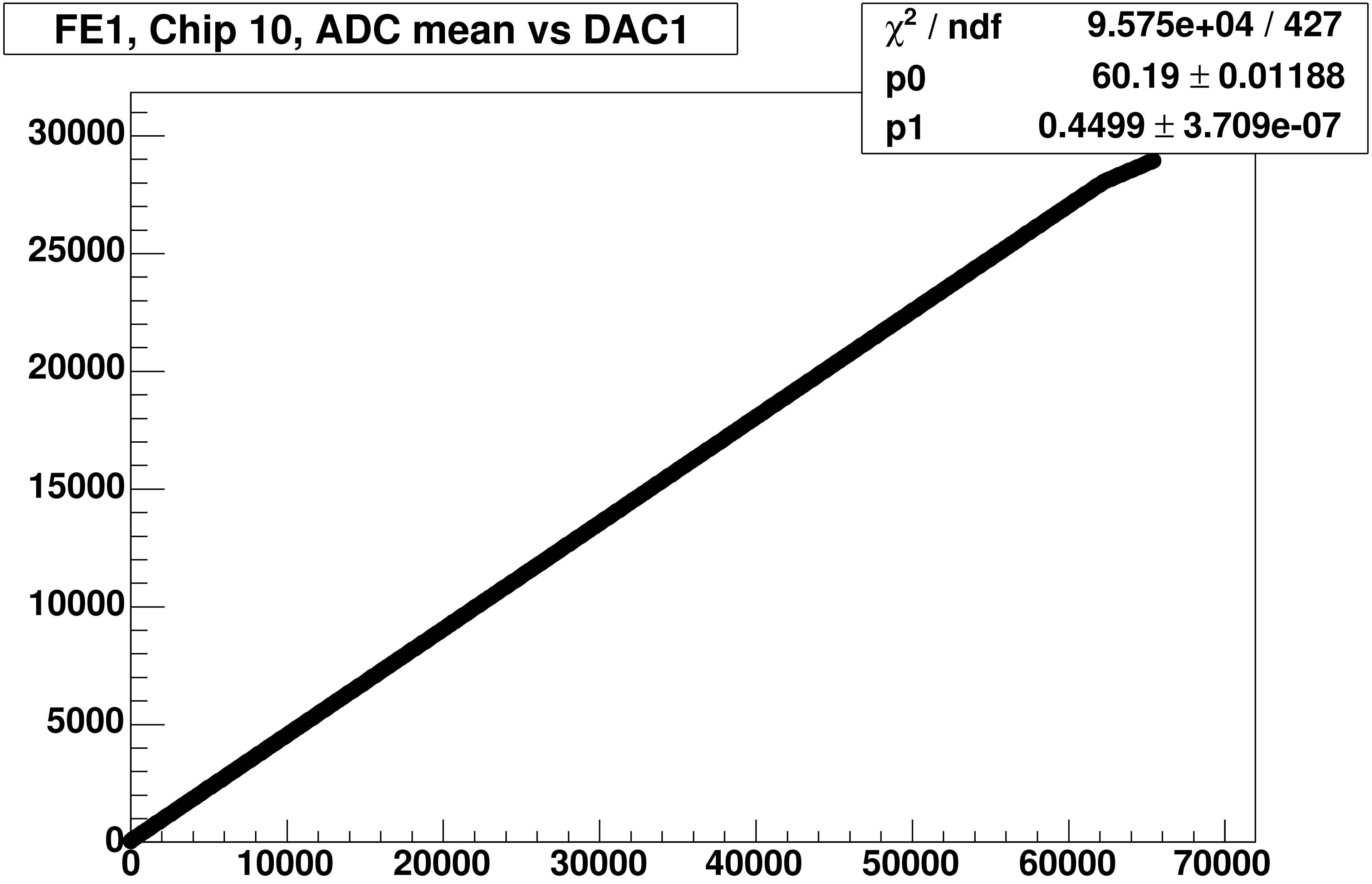

FE1, Chip 9, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000


FE1, Chip 10, ADC mean vs DAC0
$\chi^2$ / ndf 2879 / 427
p0 59.24 ± 0.006872
p1 3.067e-06 ± 1.906e-07
59.8
59.6
59.4
59.2
59
58.8
58.6
0
10000
20000
30000
40000
50000
60000
70000

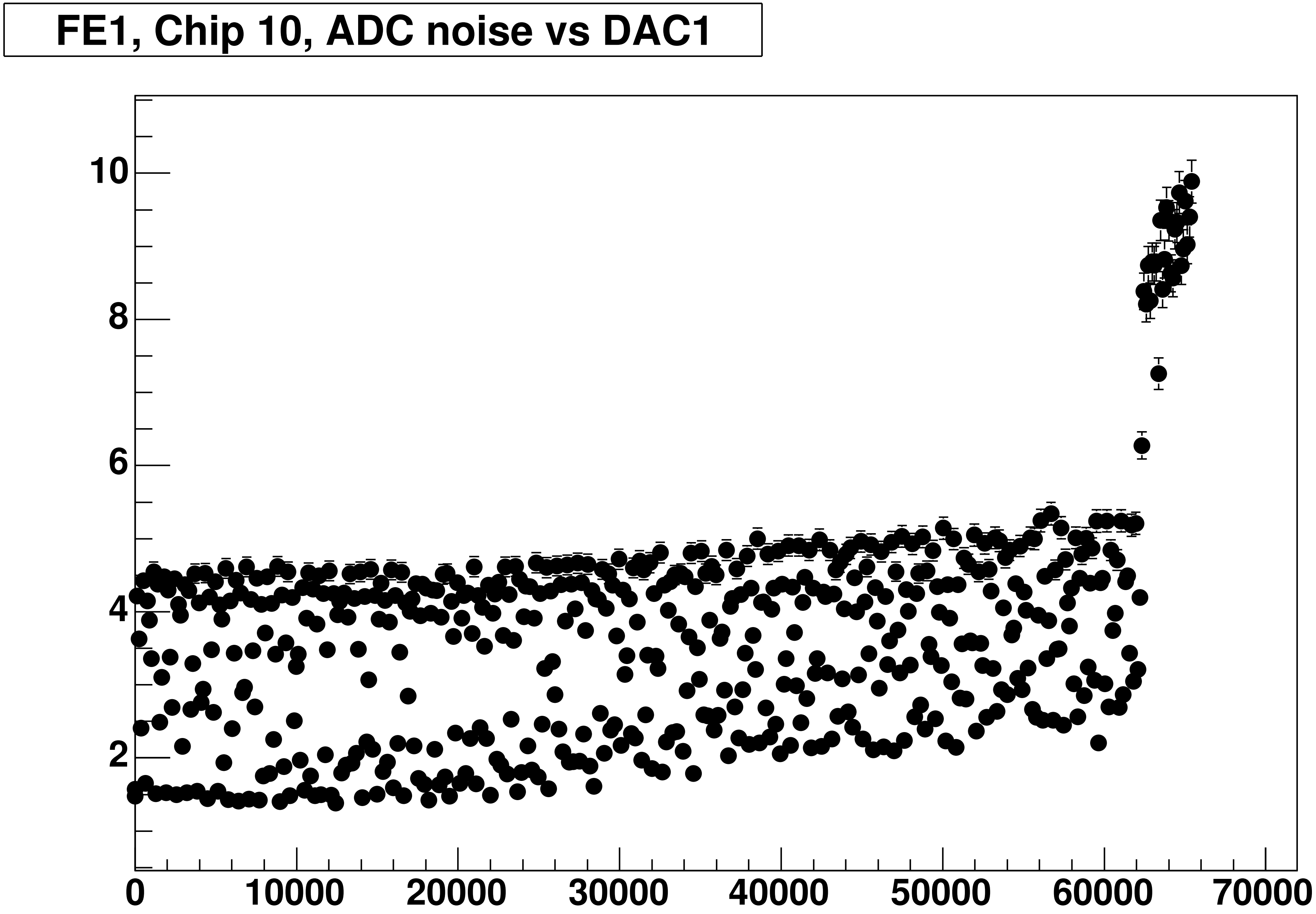


FE1, Chip 10, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000
70000

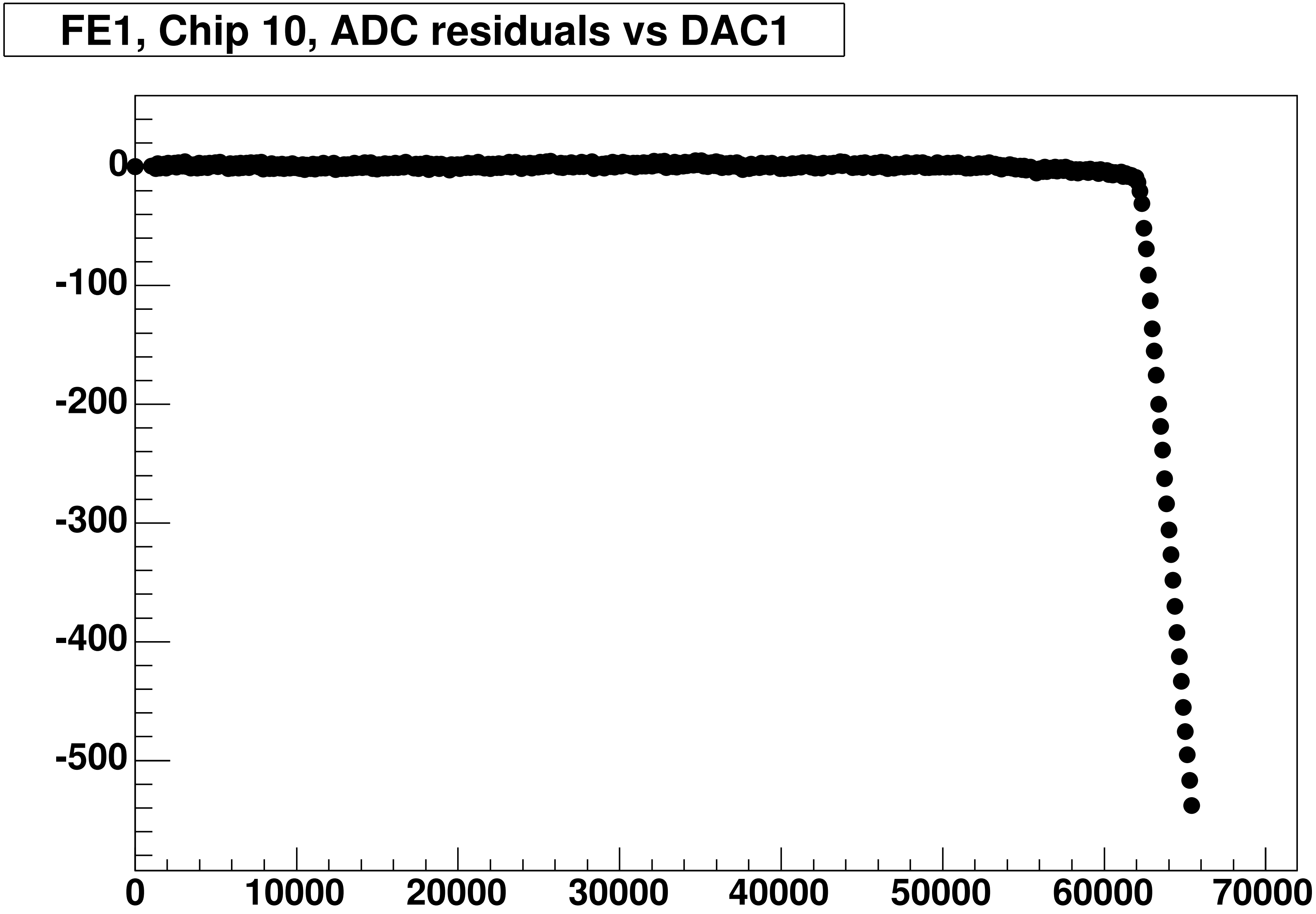

FE1, Chip 10, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
10000
20000
30000
40000
50000
60000
70000



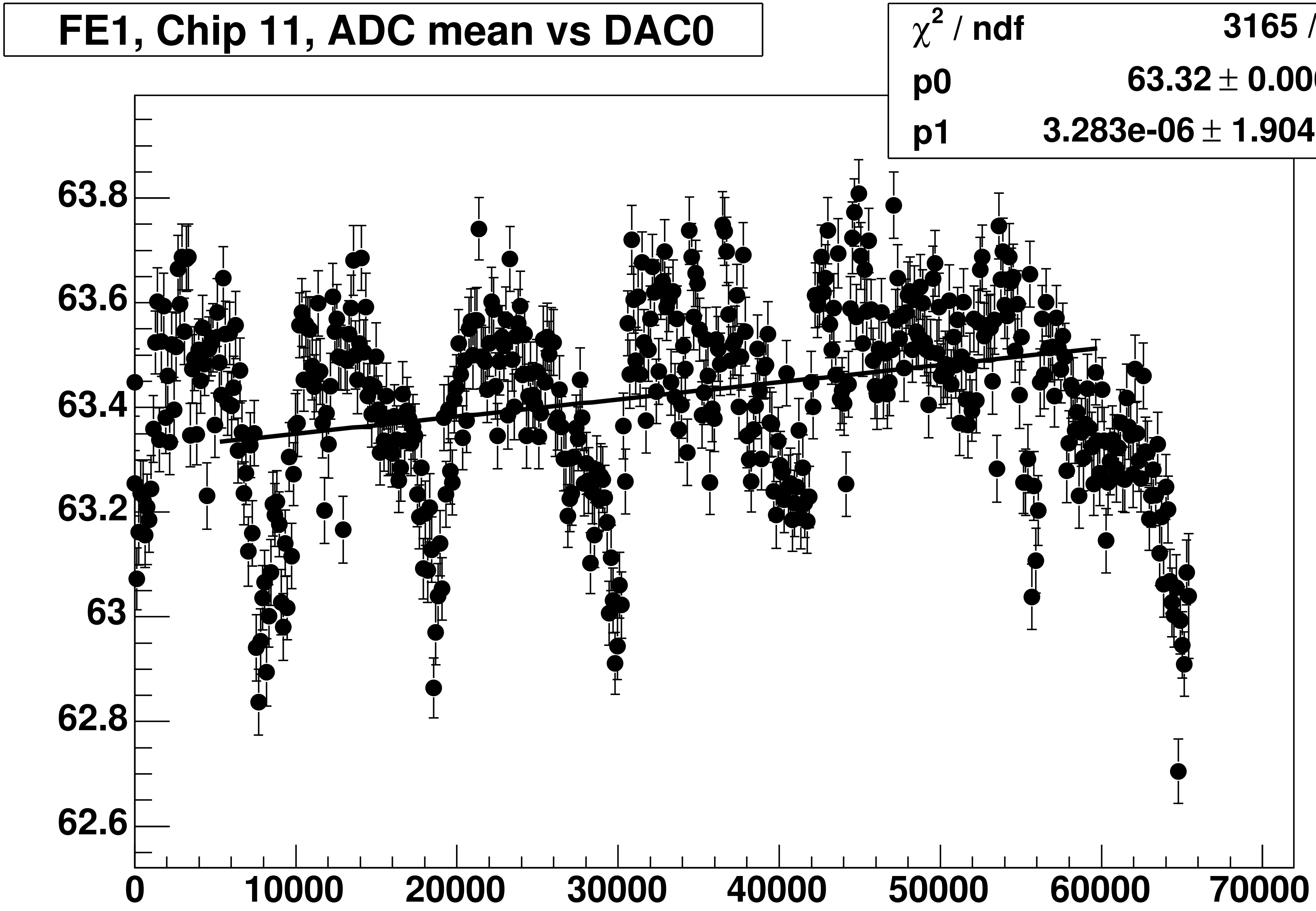
FE1, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 9.575e+04 / 427
p0 60.19 ± 0.01188
p1 0.4499 ± 3.709e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000



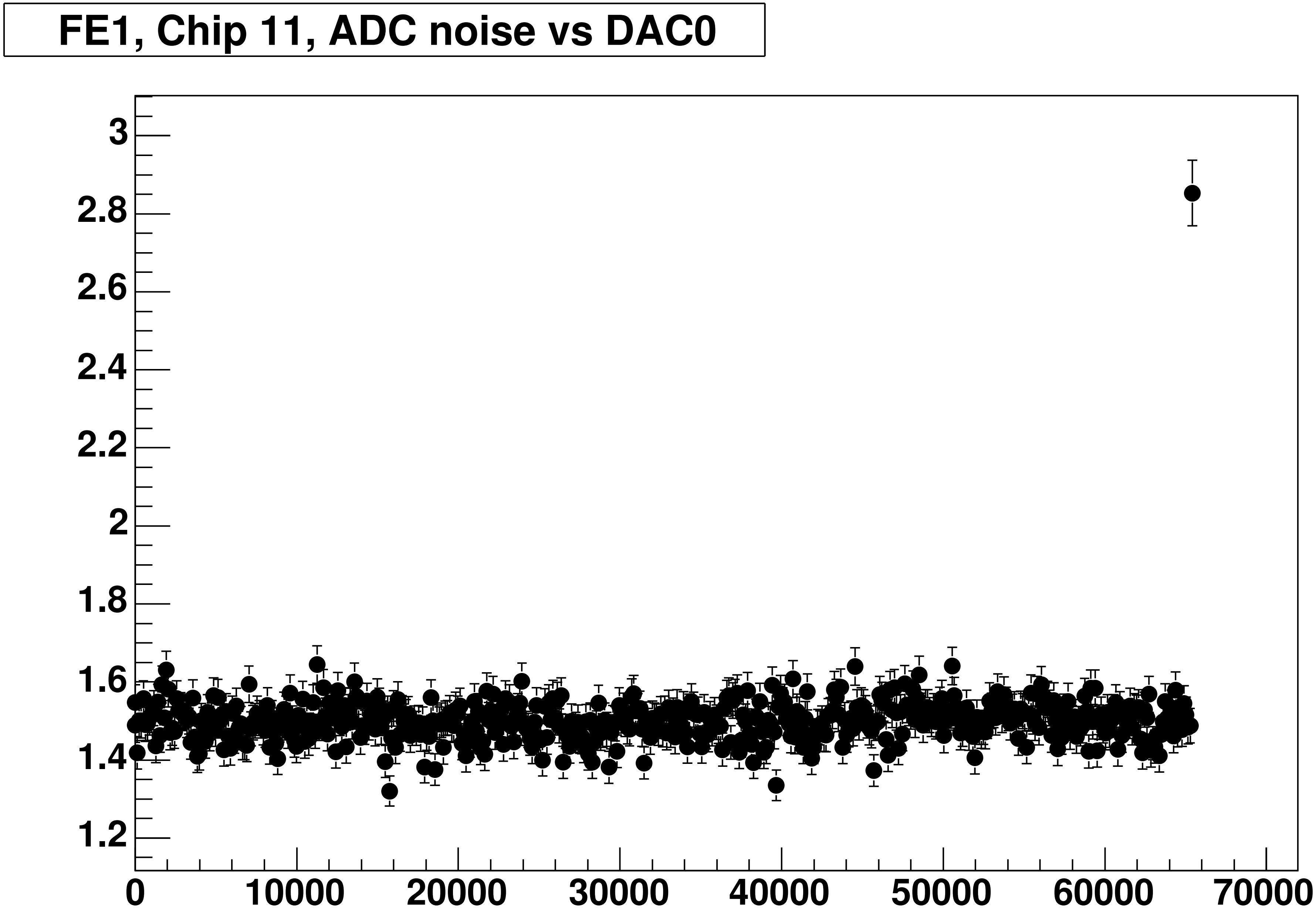
FE1, Chip 10, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000

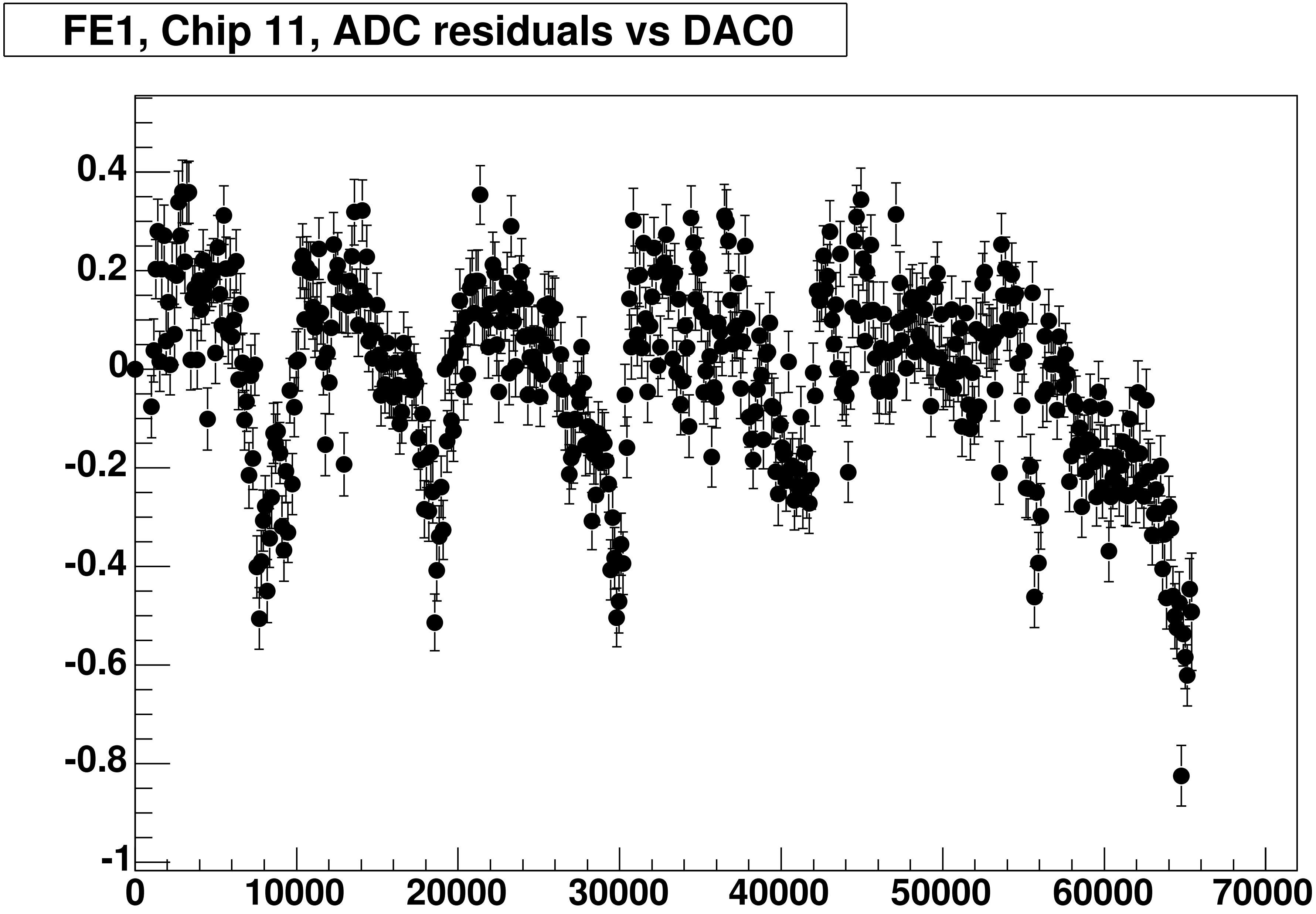


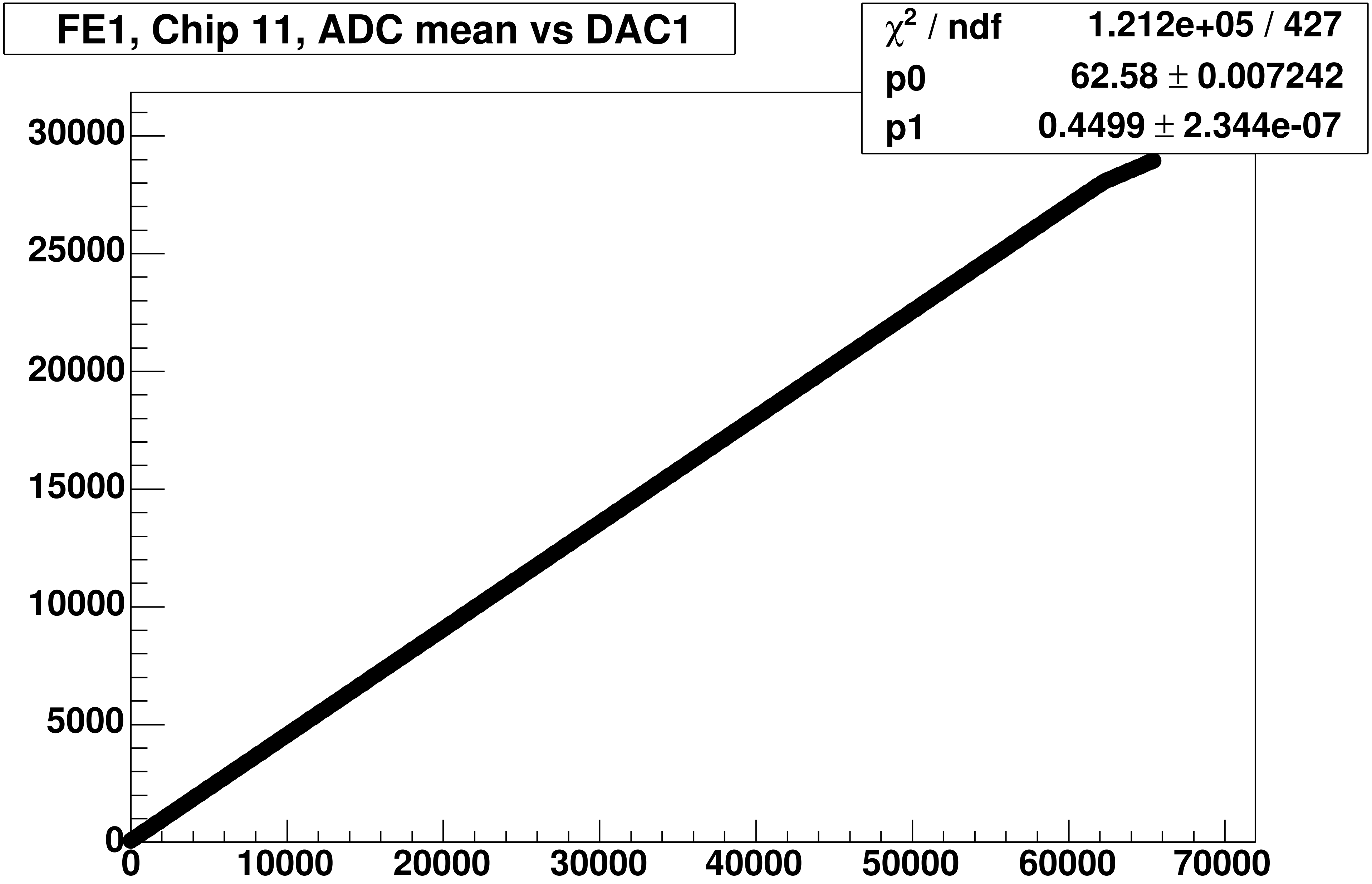
FE1, Chip 10, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000

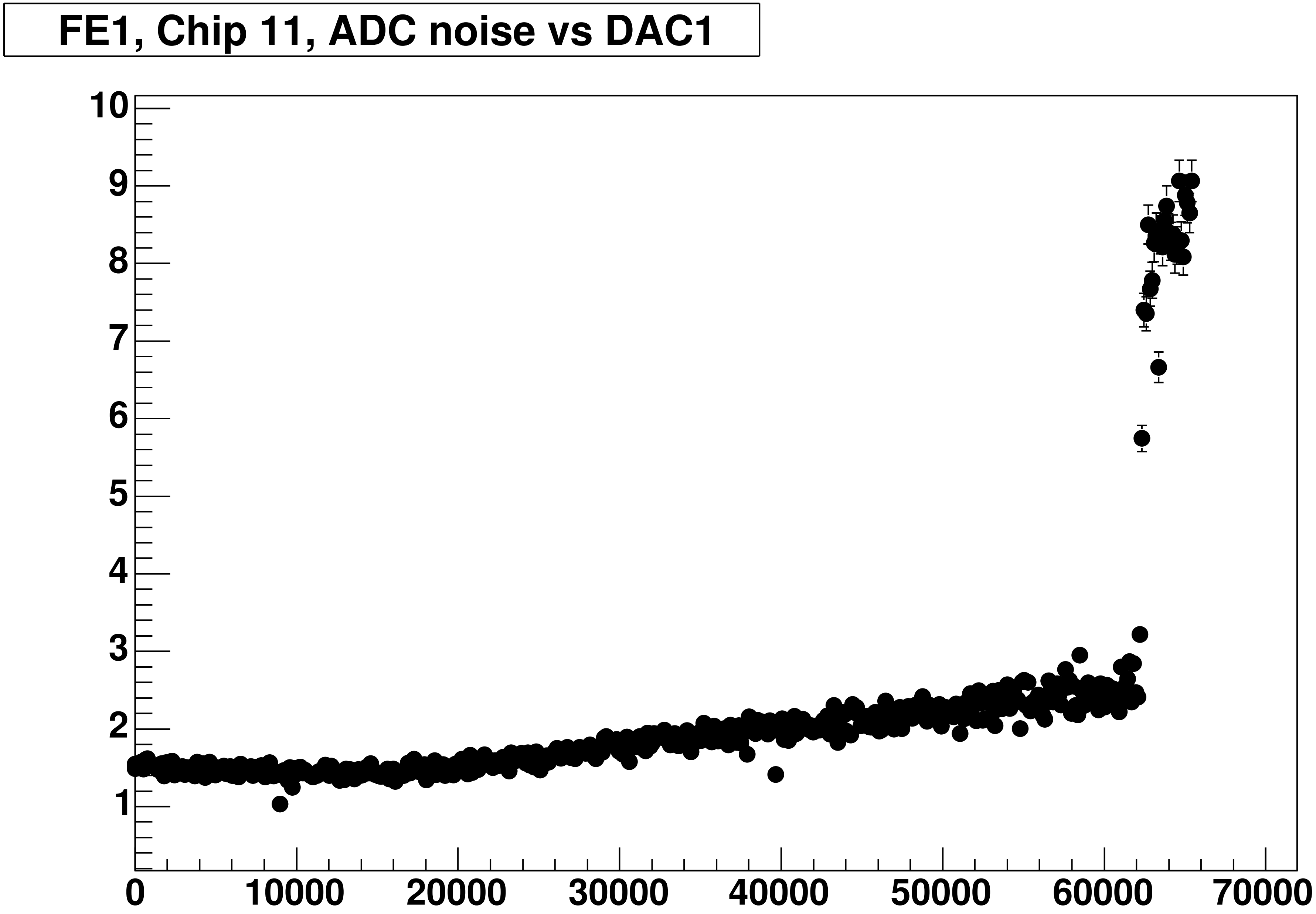


FE1, Chip 11, ADC mean vs DAC0
$\chi^2$ / ndf 3165 / 427
p0 63.32 ± 0.006861
p1 3.283e-06 ± 1.904e-07
63.8
63.6
63.4
63.2
63
62.8
62.6
0
10000
20000
30000
40000
50000
60000
70000

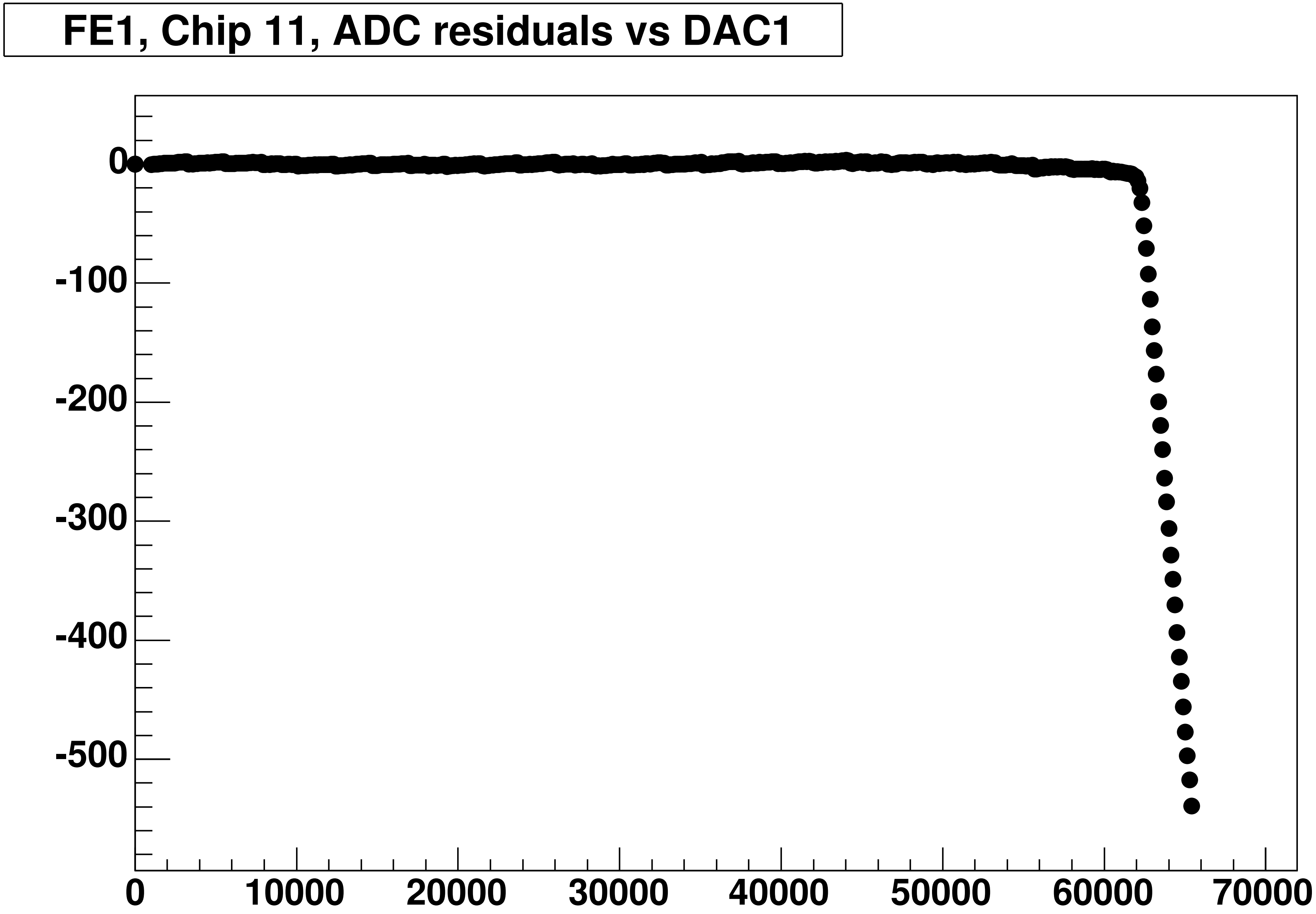

FE1, Chip 11, ADC noise vs DAC0
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000
70000

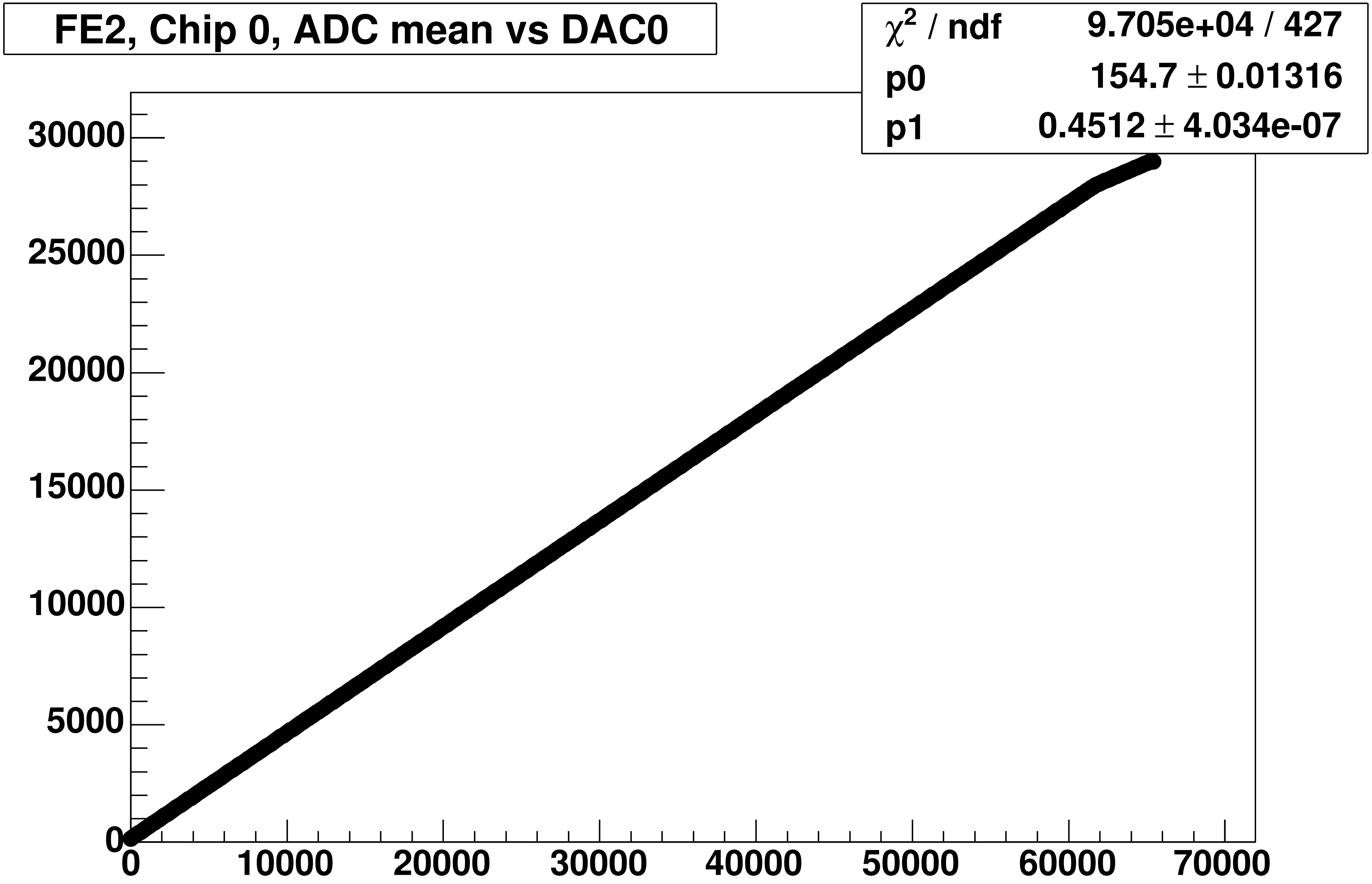

FE1, Chip 11, ADC residuals vs DAC0
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
10000
20000
30000
40000
50000
60000
70000


FE1, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 1.212e+05 / 427
p0 62.58 ± 0.007242
p1 0.4499 ± 2.344e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

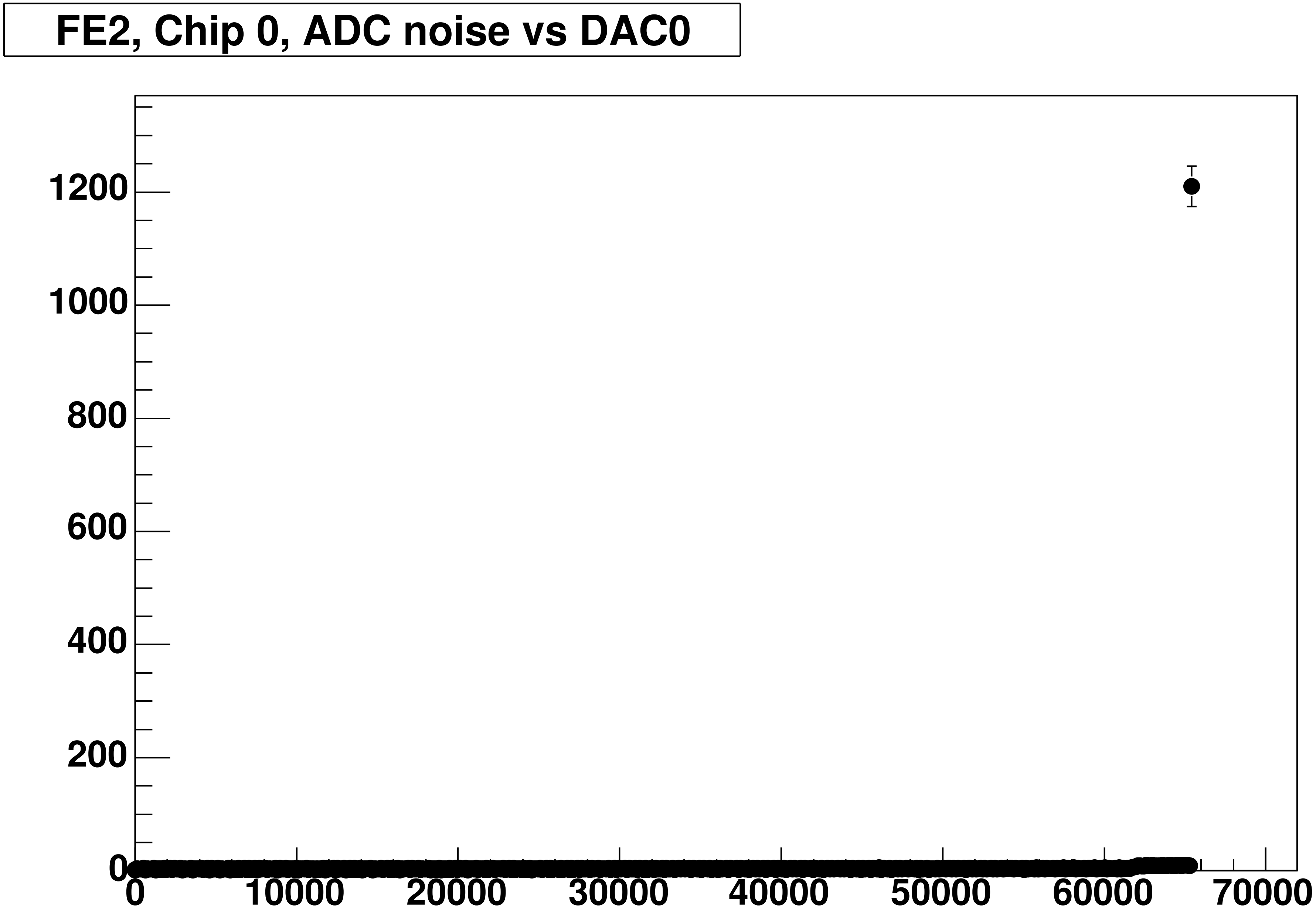


FE1, Chip 11, ADC noise vs DAC1
10
9
8
7
6
5
4
3
2
1
0
10000
20000
30000
40000
50000
60000
70000

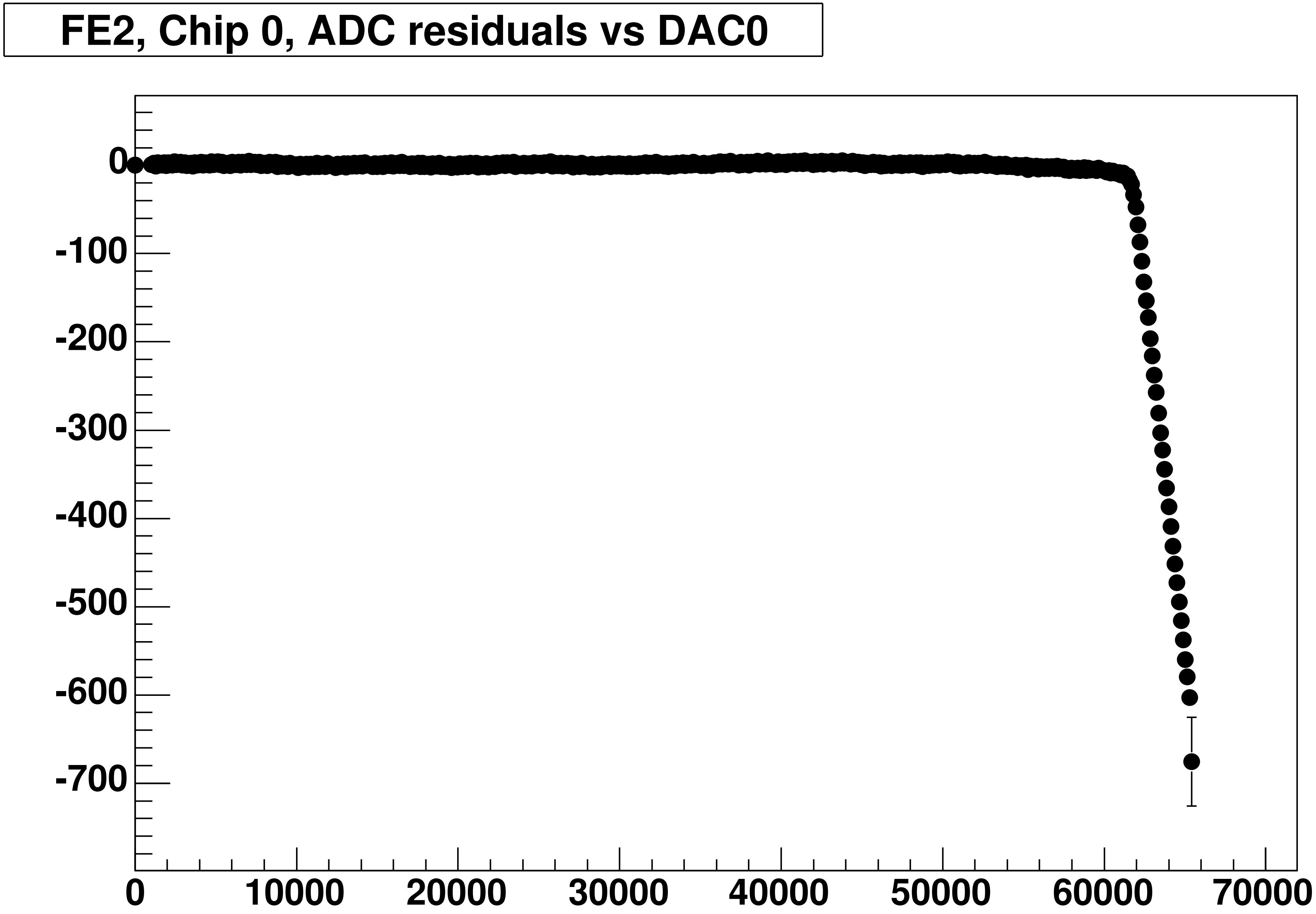

FE1, Chip 11, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000

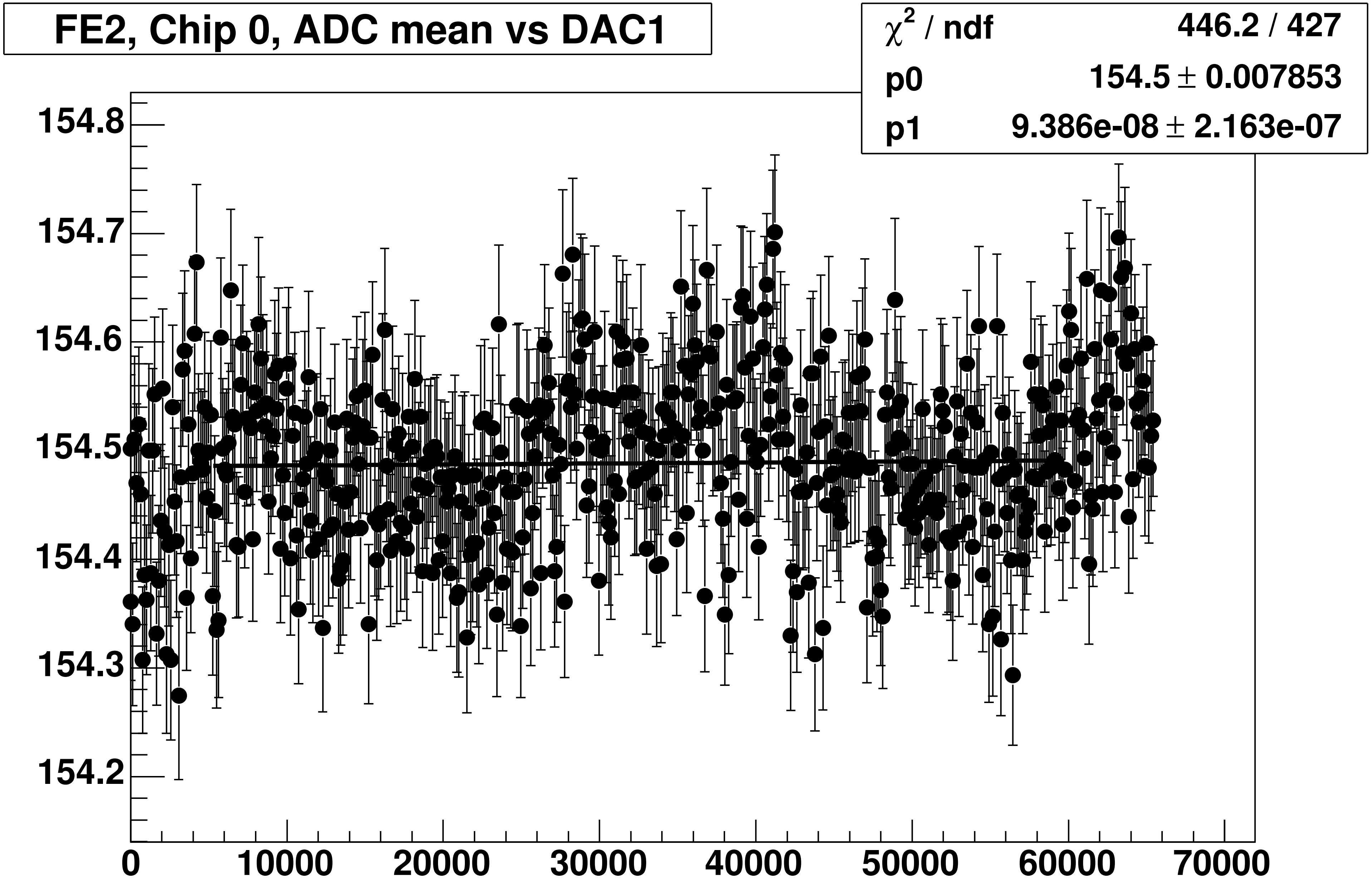


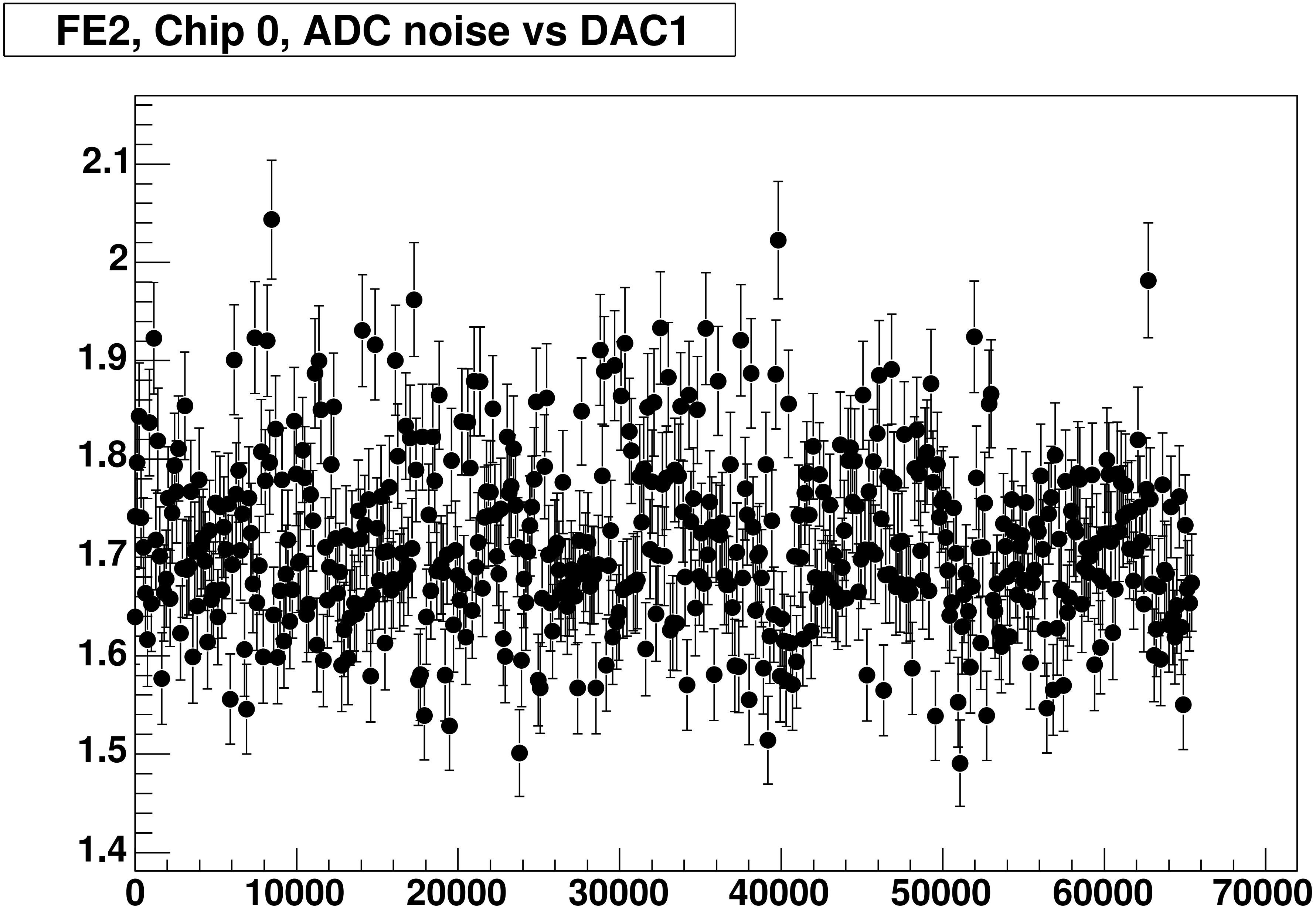
FE2, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 9.705e+04 / 427
p0 154.7 ± 0.01316
p1 0.4512 ± 4.034e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000



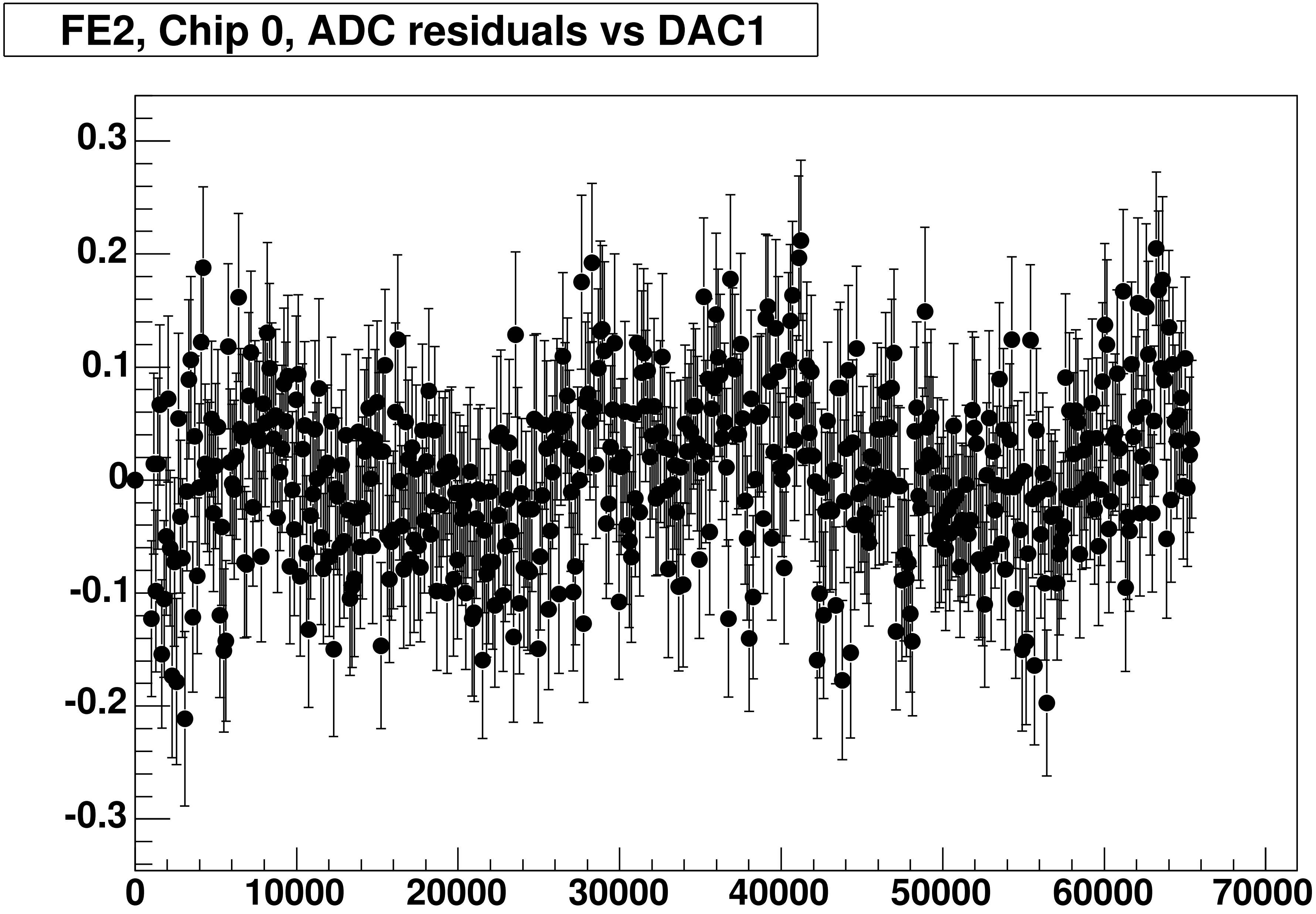
FE2, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000

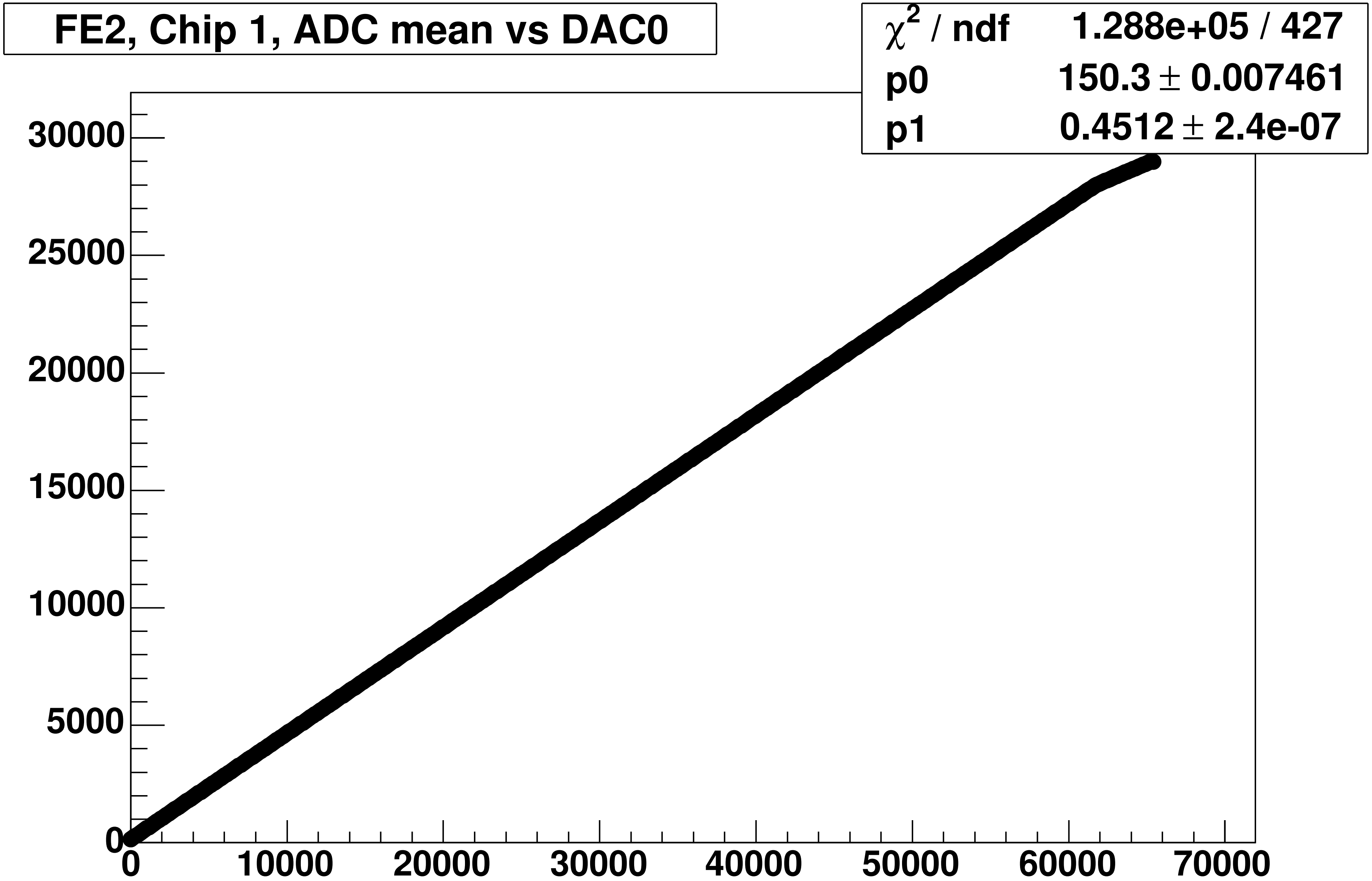

FE2, Chip 0, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
-700
0
10000
20000
30000
40000
50000
60000
70000


FE2, Chip 0, ADC mean vs DAC1
$\chi^2$ / ndf 446.2 / 427
p0 154.5 ± 0.007853
p1 9.386e-08 ± 2.163e-07
154.8
154.7
154.6
154.5
154.4
154.3
154.2
0
10000
20000
30000
40000
50000
60000
70000

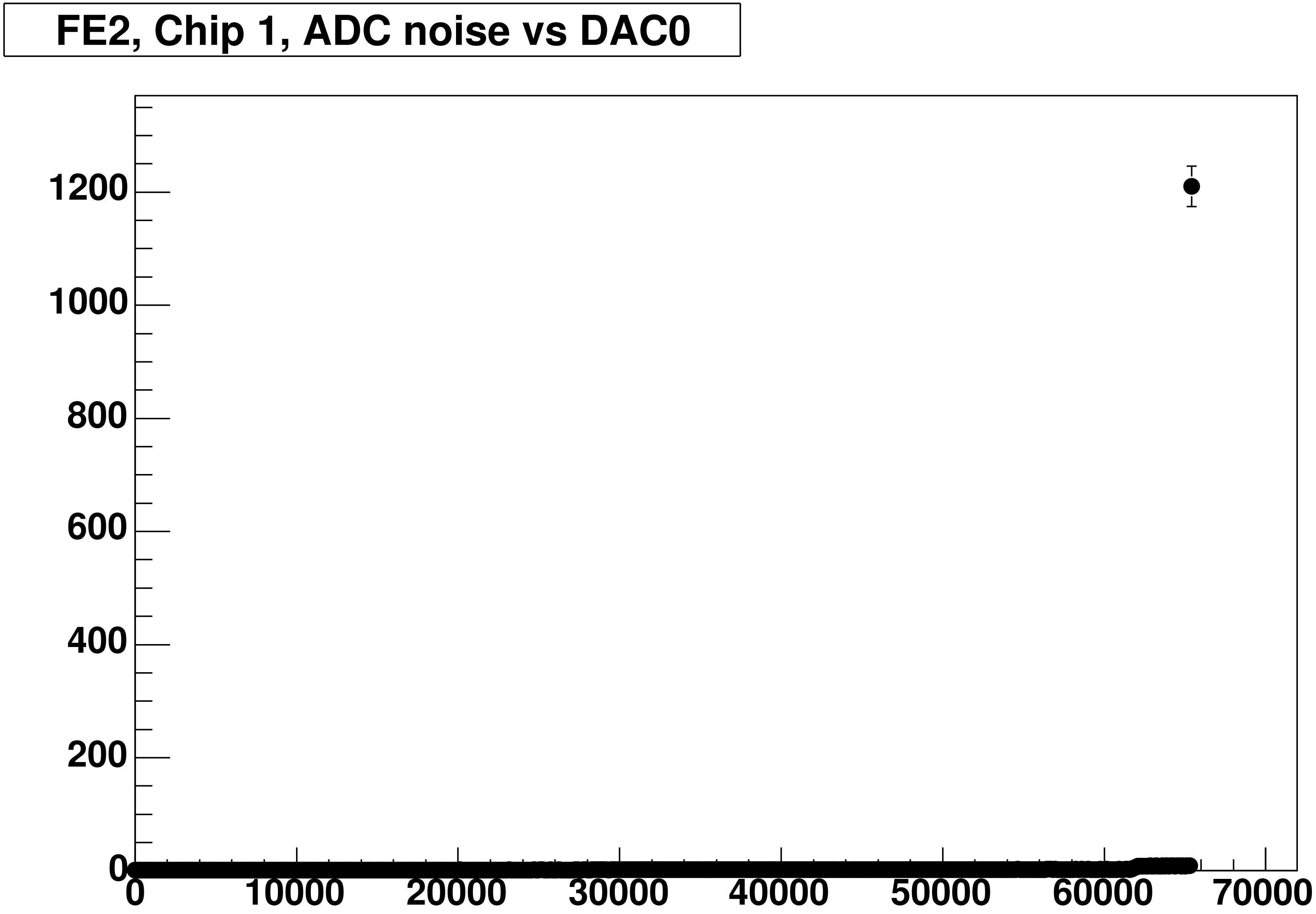


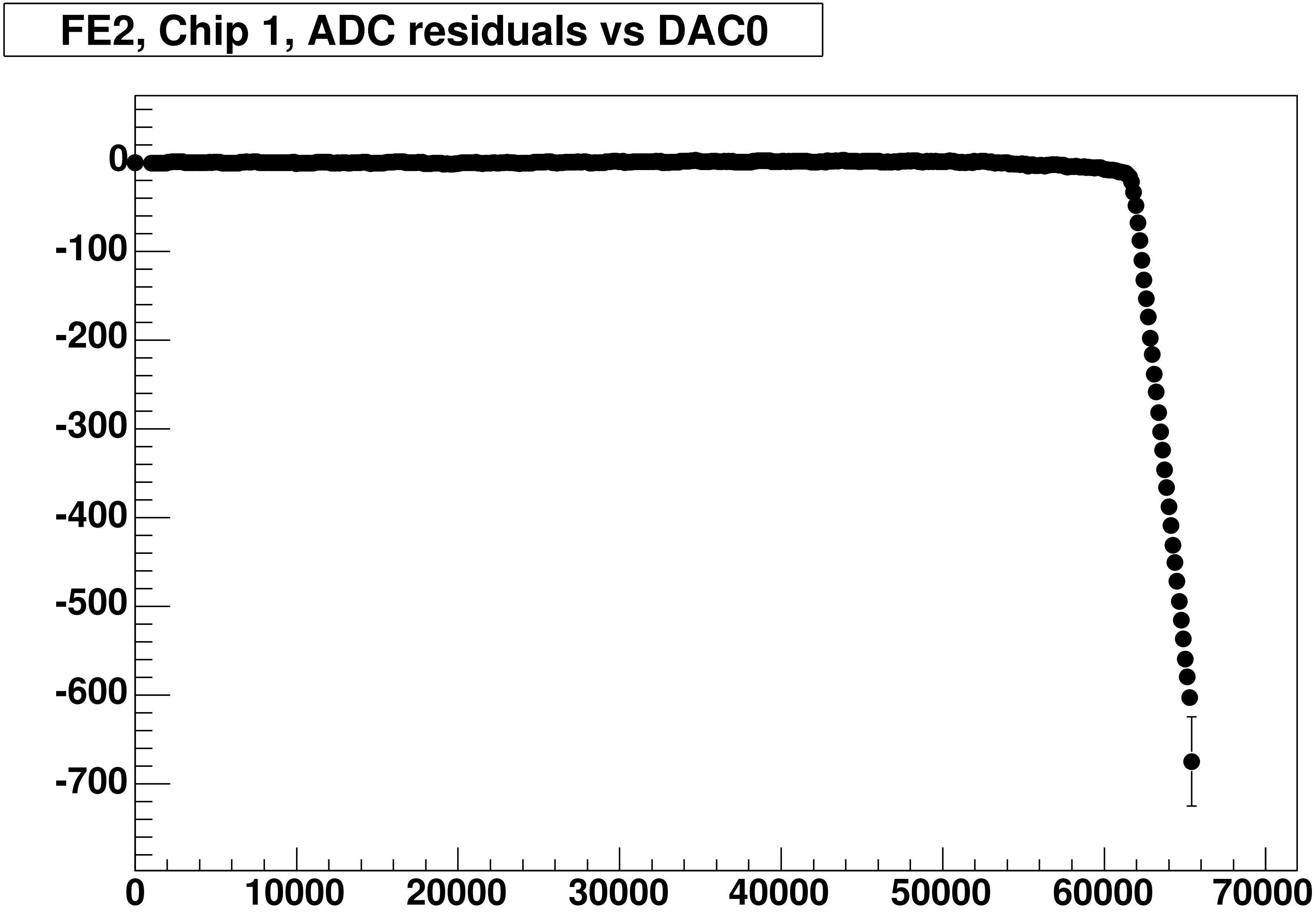
FE2, Chip 0, ADC noise vs DAC1
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
0
10000
20000
30000
40000
50000
60000
70000


FE2, Chip 0, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000
70000

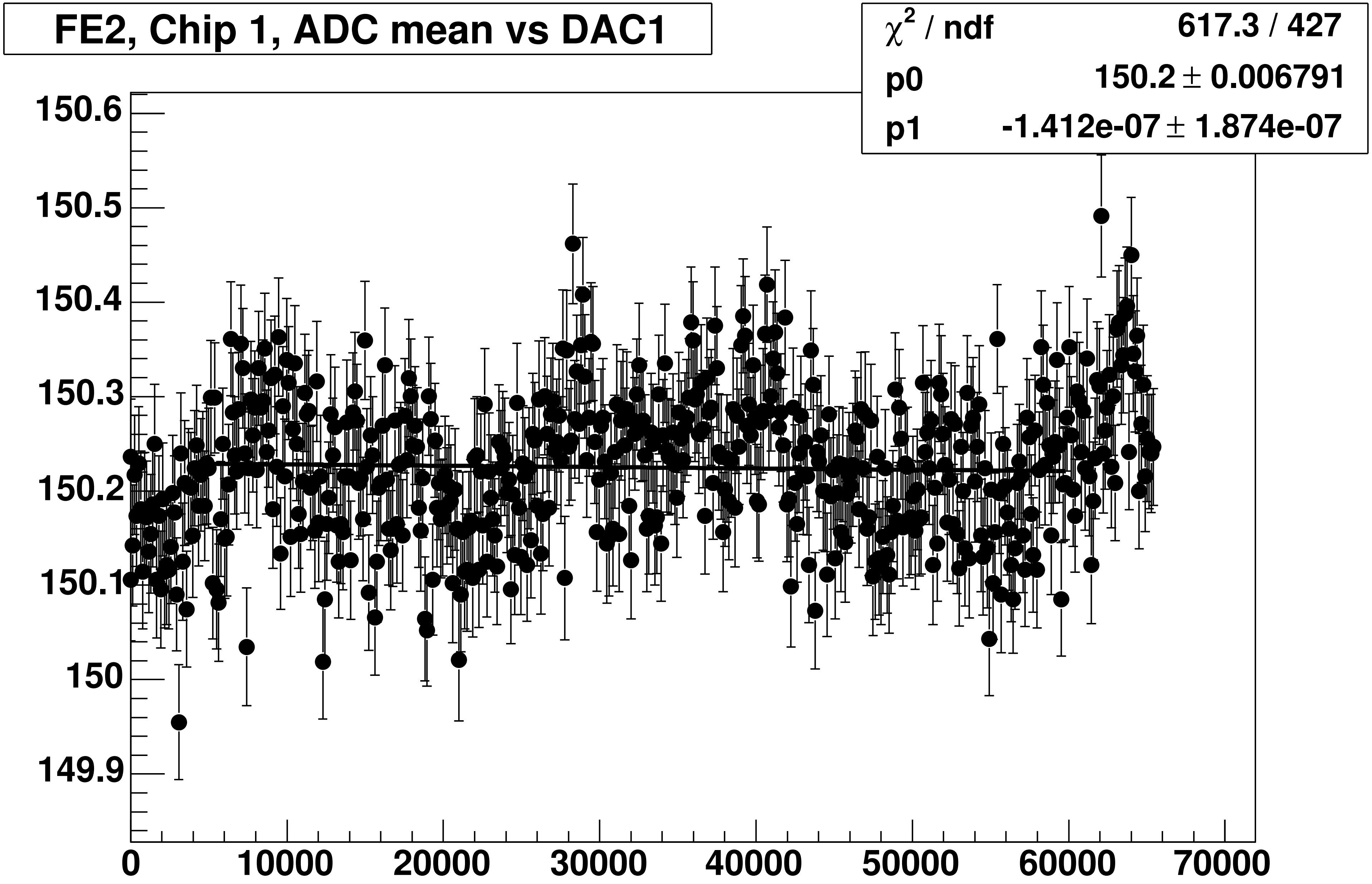


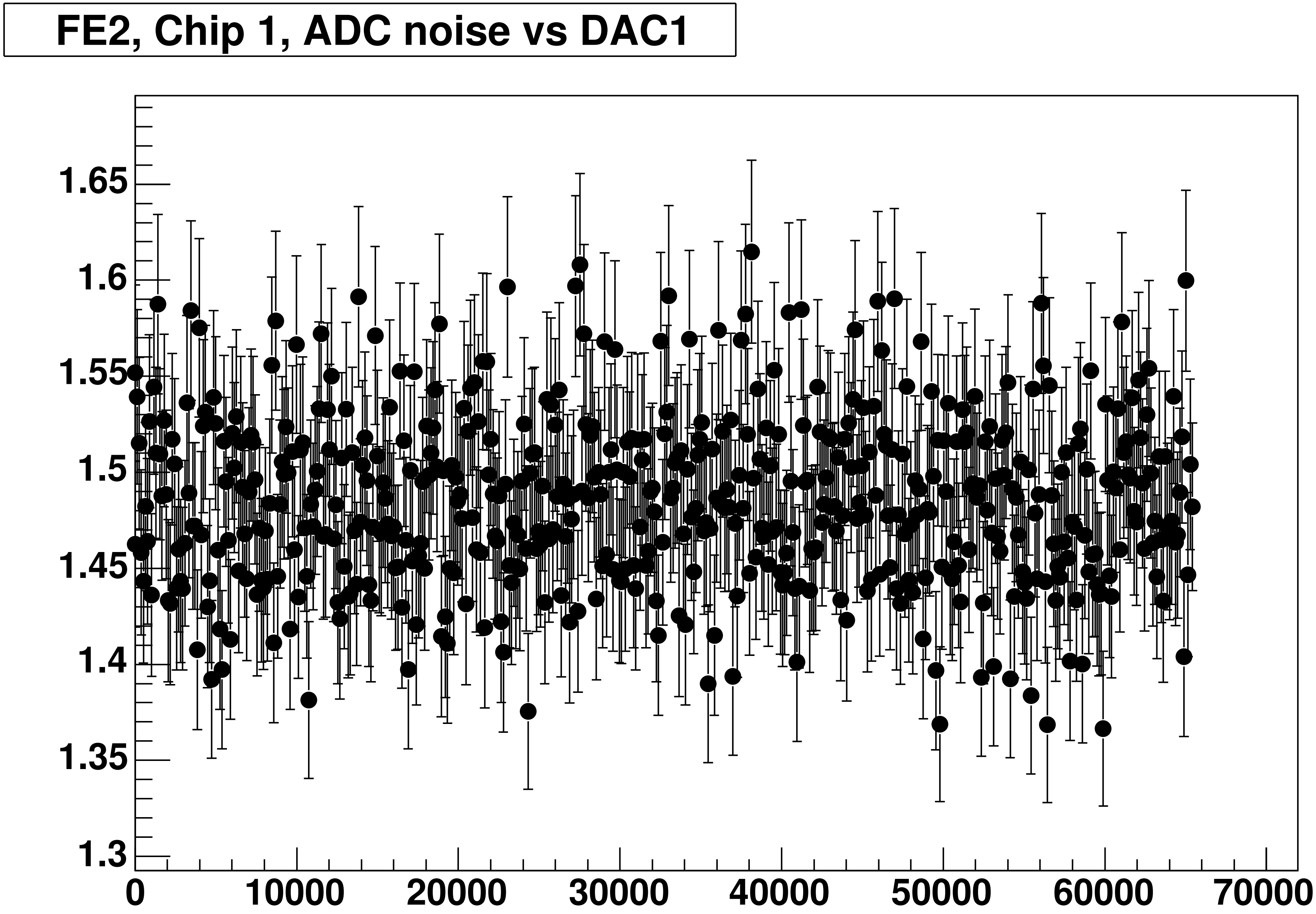
FE2, Chip 1, ADC mean vs DAC0
χ2 / ndf 1.288e+05 / 427
p0 150.3 ± 0.007461
p1 0.4512 ± 2.4e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

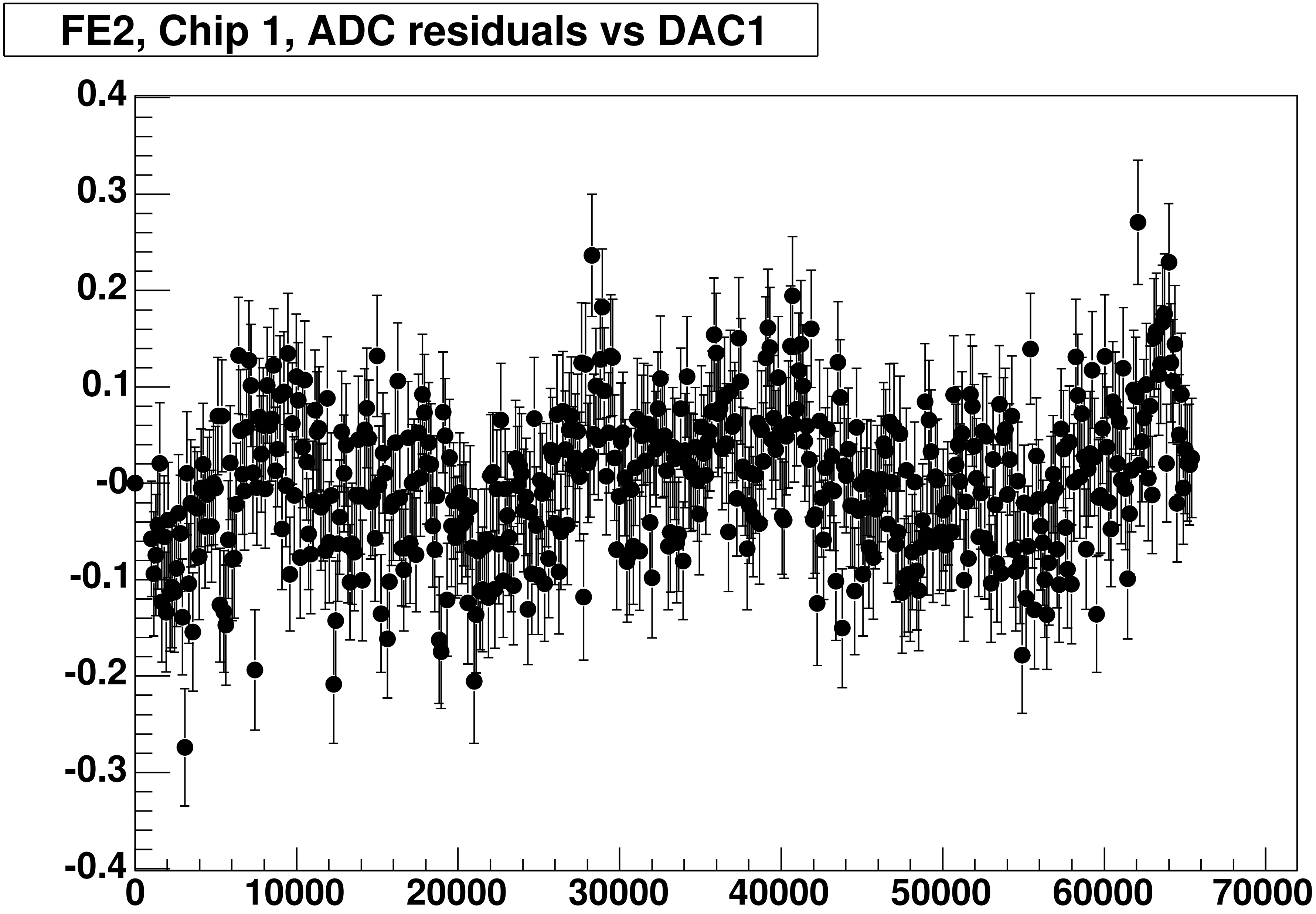

FE2, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000



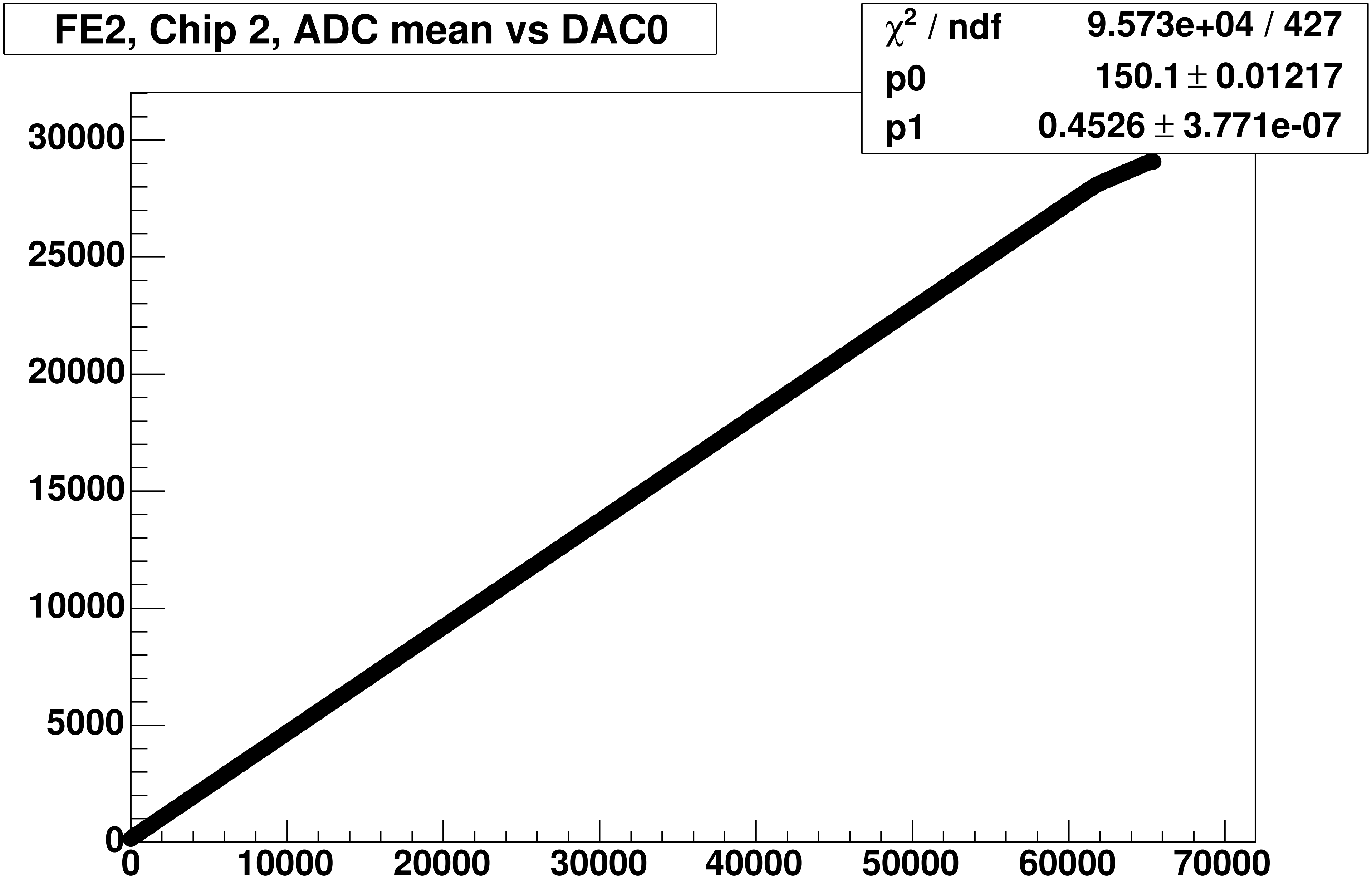
FE2, Chip 1, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
-700
0
10000
20000
30000
40000
50000
60000
70000


FE2, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 617.3 / 427
p0 150.2 ± 0.006791
p1 -1.412e-07 ± 1.874e-07
150.6
150.5
150.4
150.3
150.2
150.1
150
149.9
0
10000
20000
30000
40000
50000
60000
70000

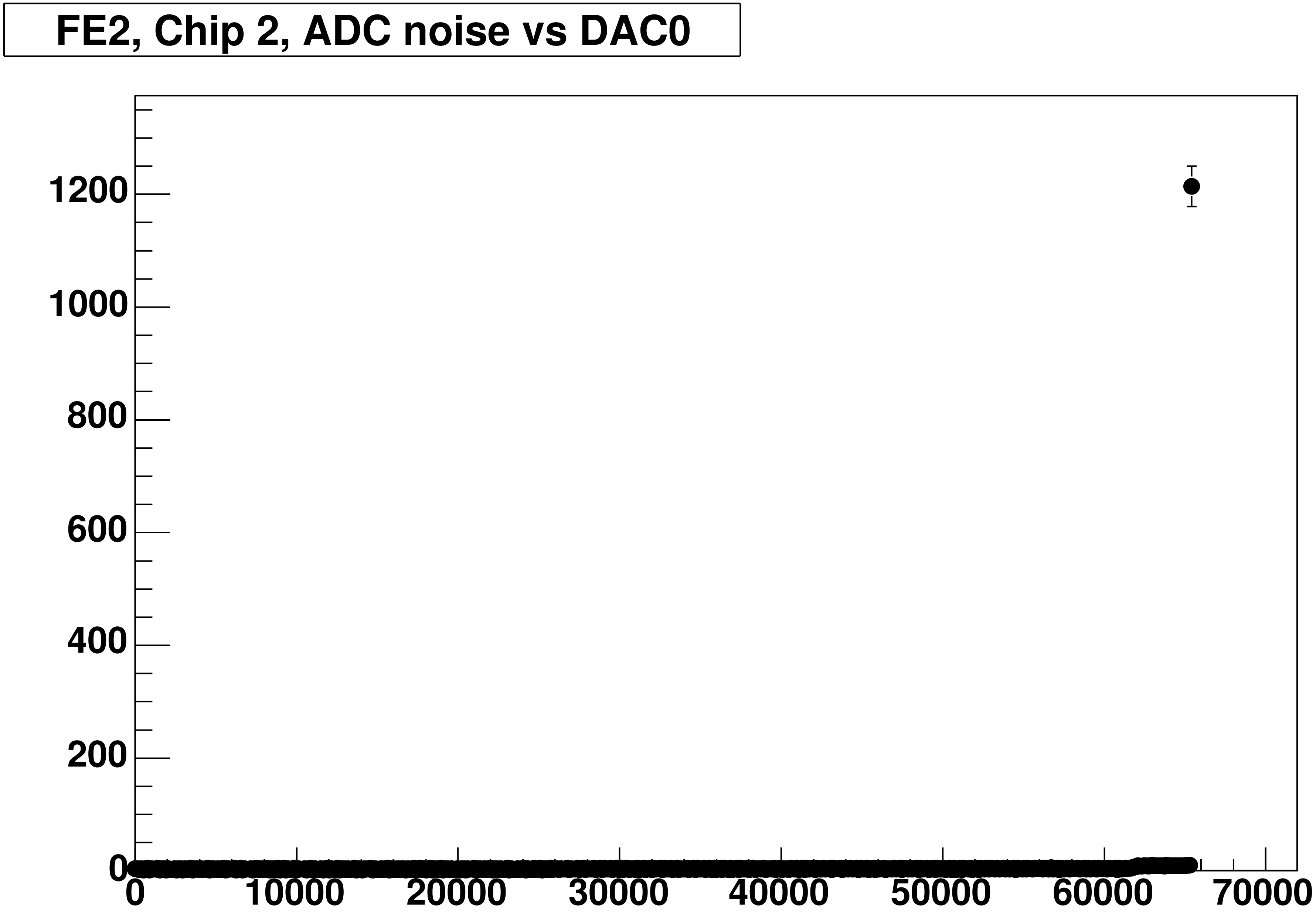

FE2, Chip 1, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000
70000



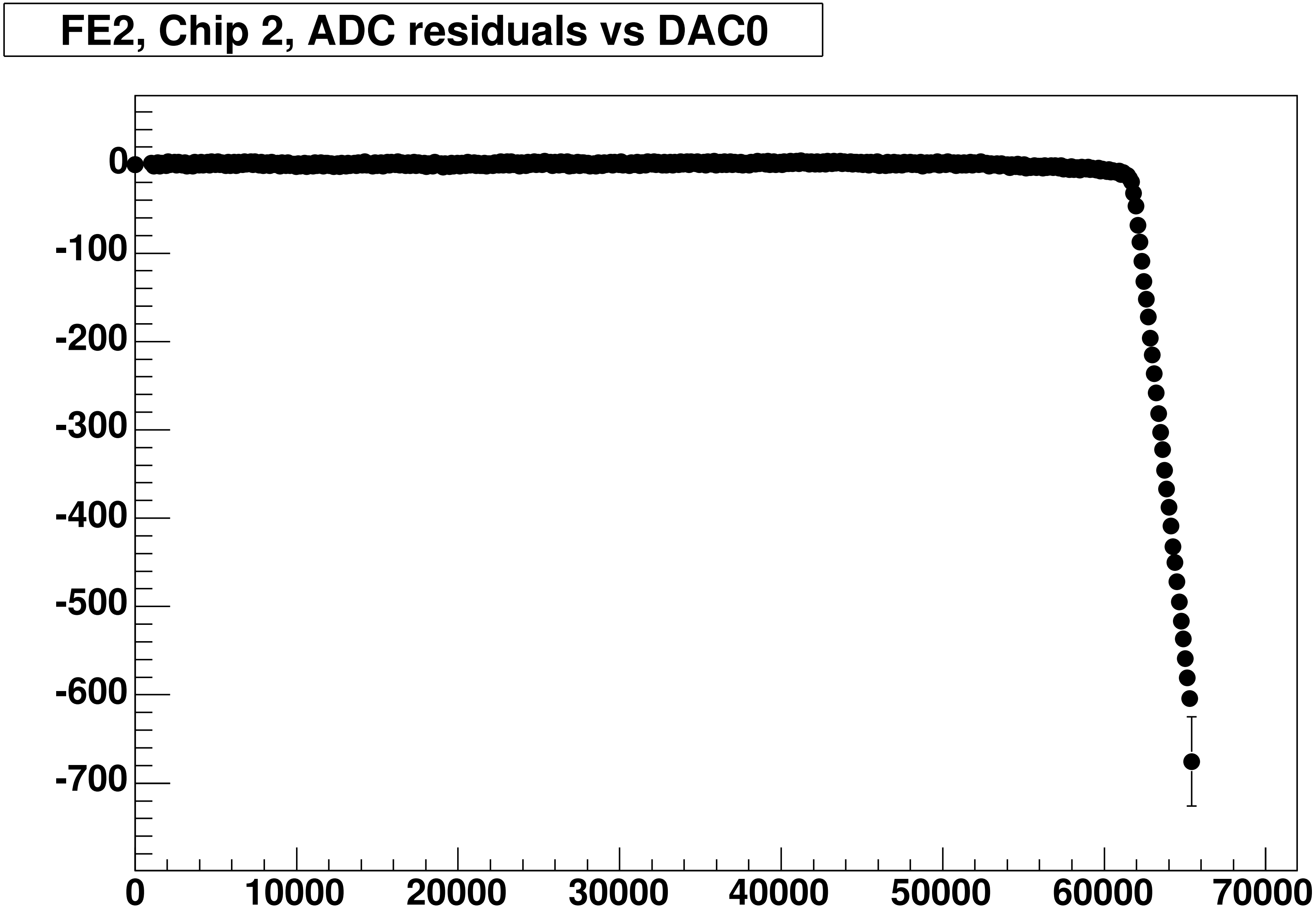
FE2, Chip 1, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000
70000

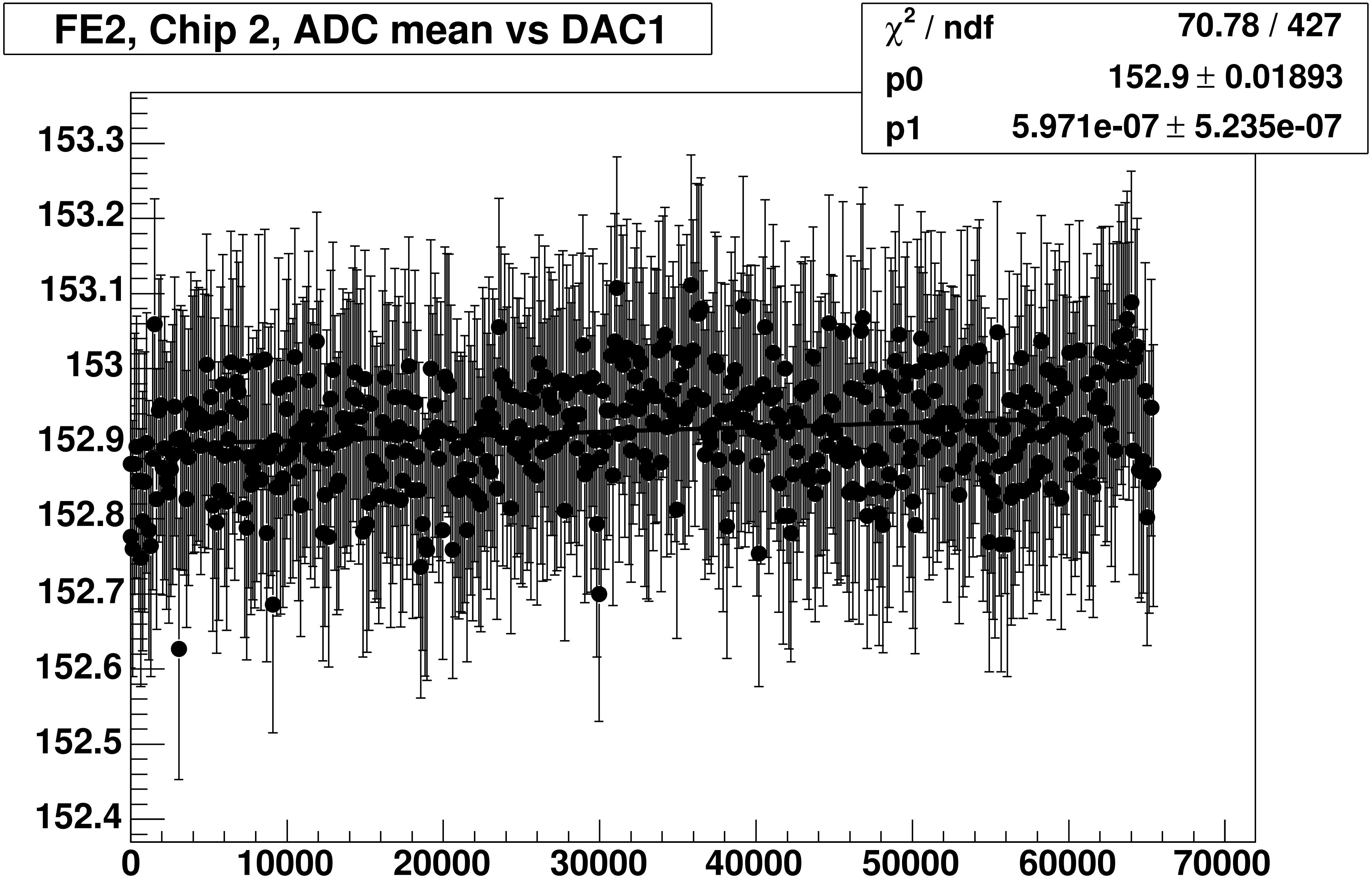


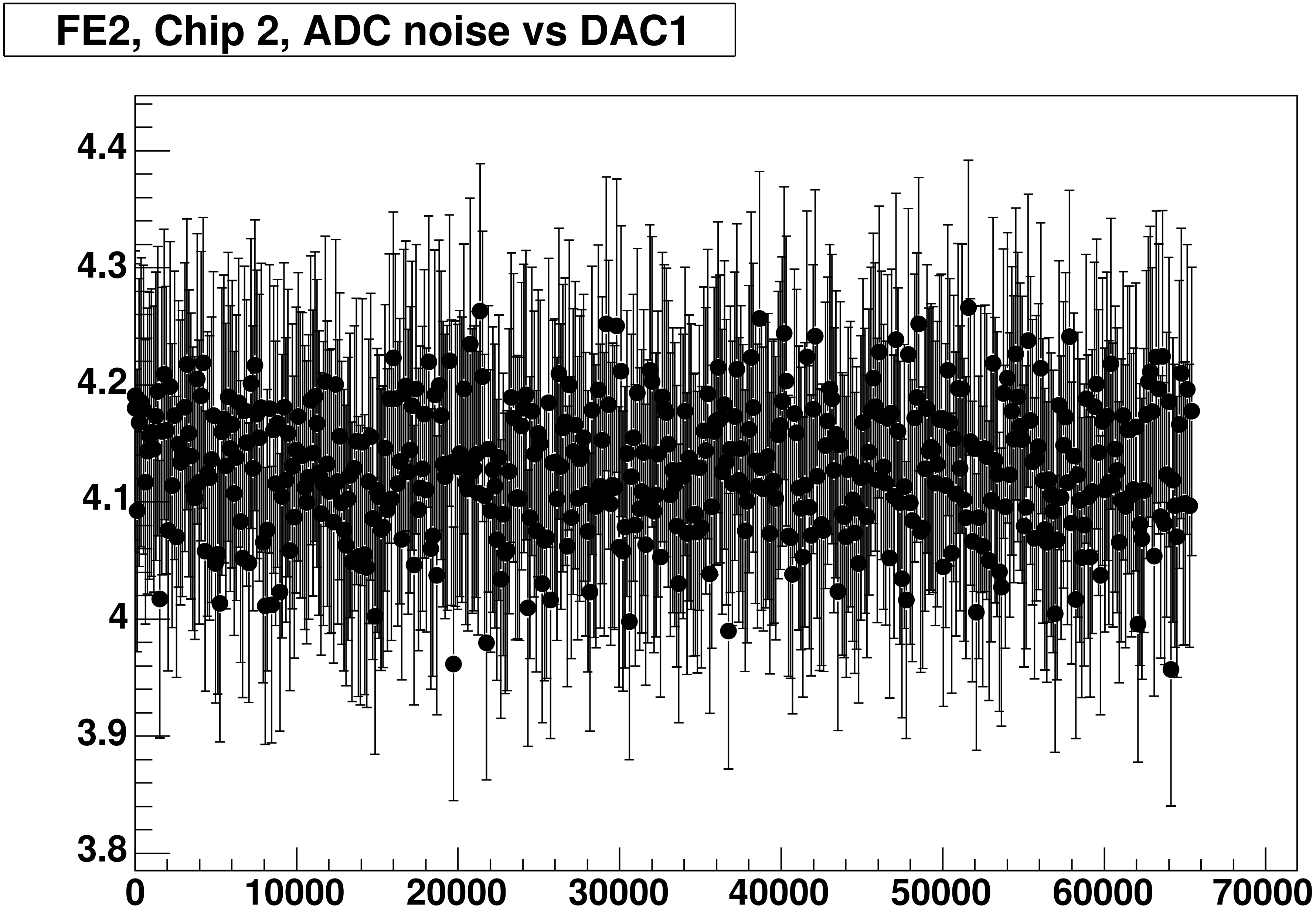
FE2, Chip 2, ADC mean vs DAC0
$\chi^2$ / ndf 9.573e+04 / 427
p0 150.1 ± 0.01217
p1 0.4526 ± 3.771e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000



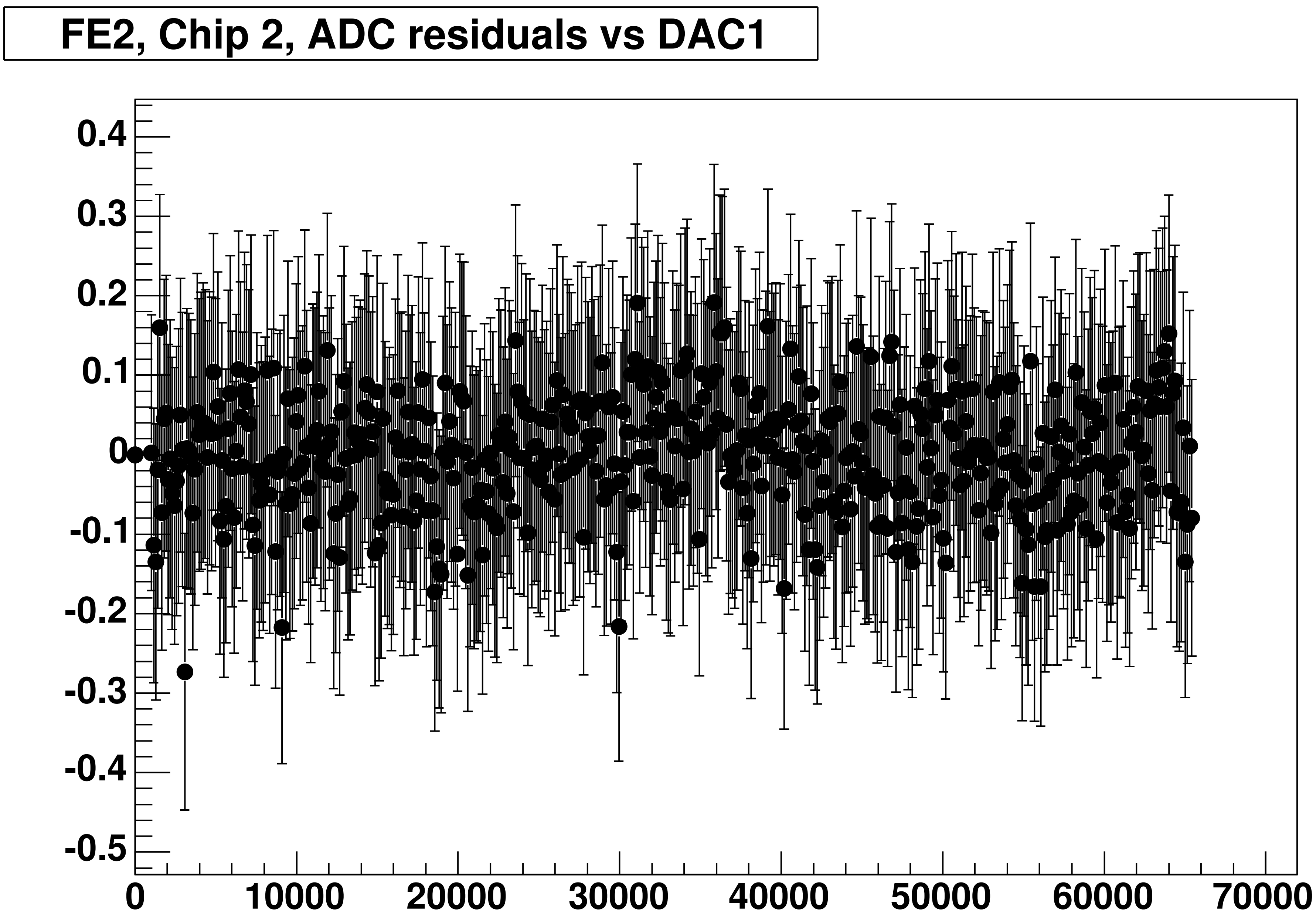
FE2, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000

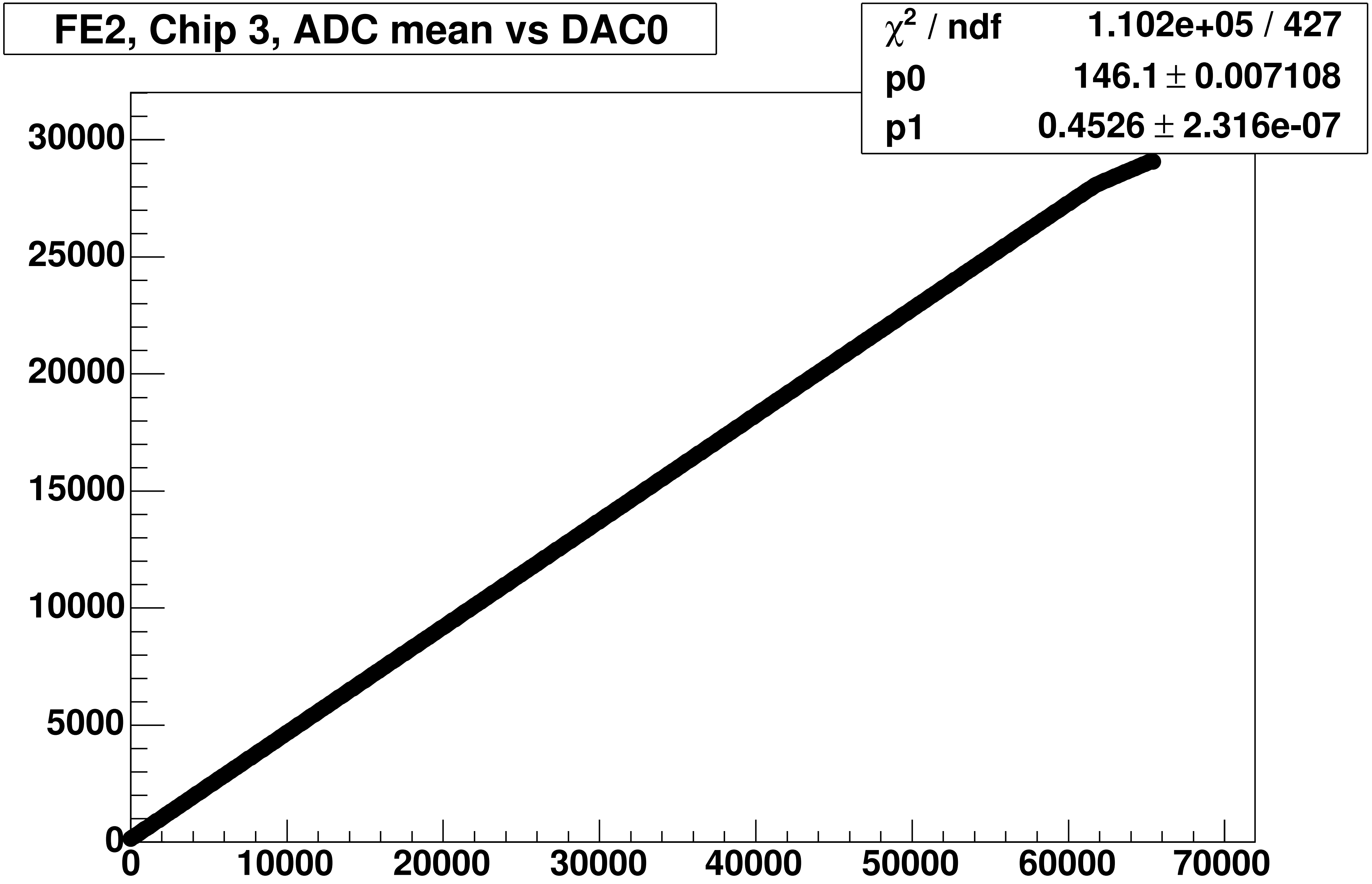

FE2, Chip 2, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
-700
0
10000
20000
30000
40000
50000
60000
70000


FE2, Chip 2, ADC mean vs DAC1
χ2 / ndf 70.78 / 427
p0 152.9 ± 0.01893
p1 5.971e-07 ± 5.235e-07
153.3
153.2
153.1
153
152.9
152.8
152.7
152.6
152.5
152.4
0
10000
20000
30000
40000
50000
60000
70000

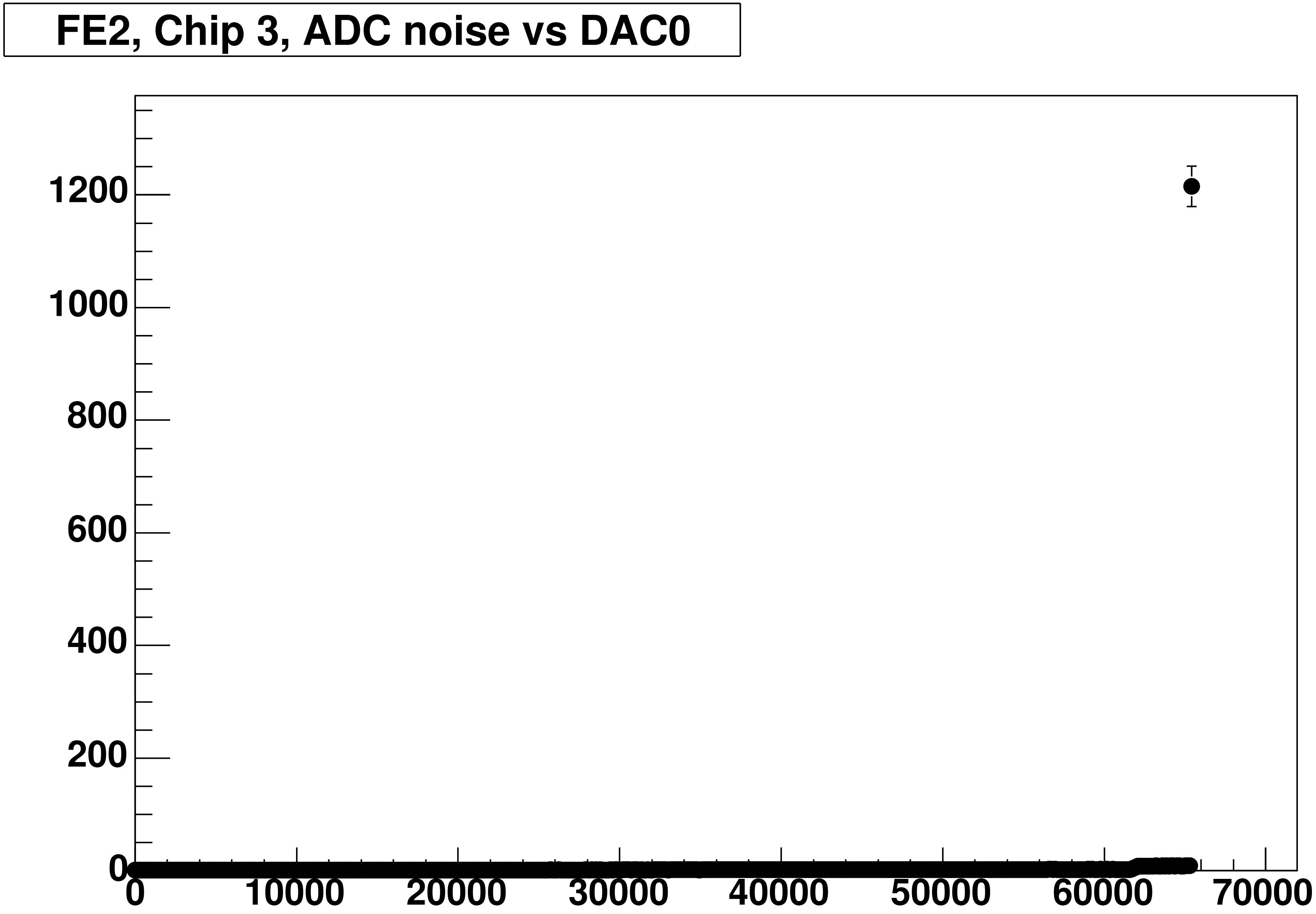


FE2, Chip 2, ADC noise vs DAC1
4.4
4.3
4.2
4.1
4
3.9
3.8
0
10000
20000
30000
40000
50000
60000
70000

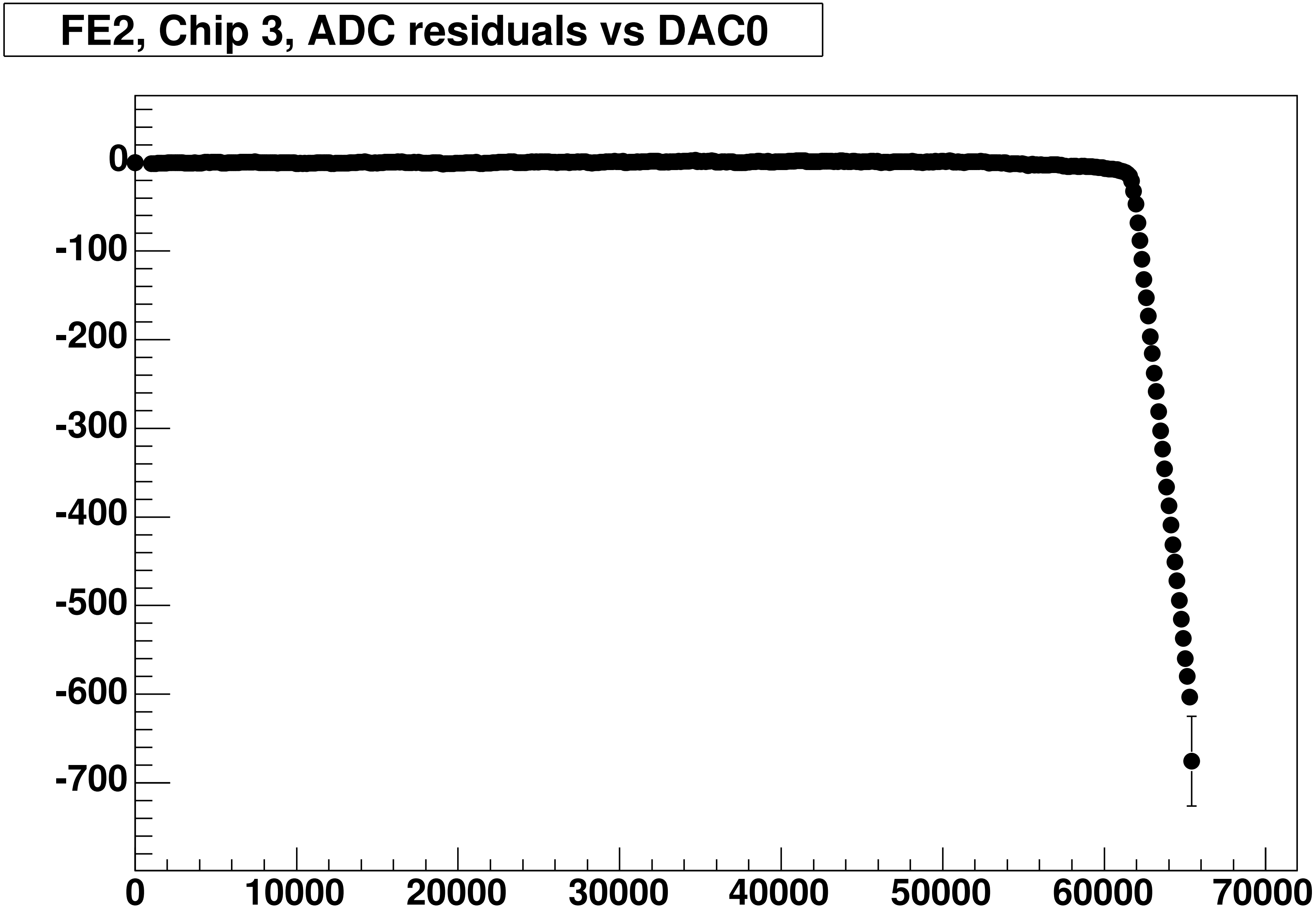

FE2, Chip 2, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
10000
20000
30000
40000
50000
60000
70000



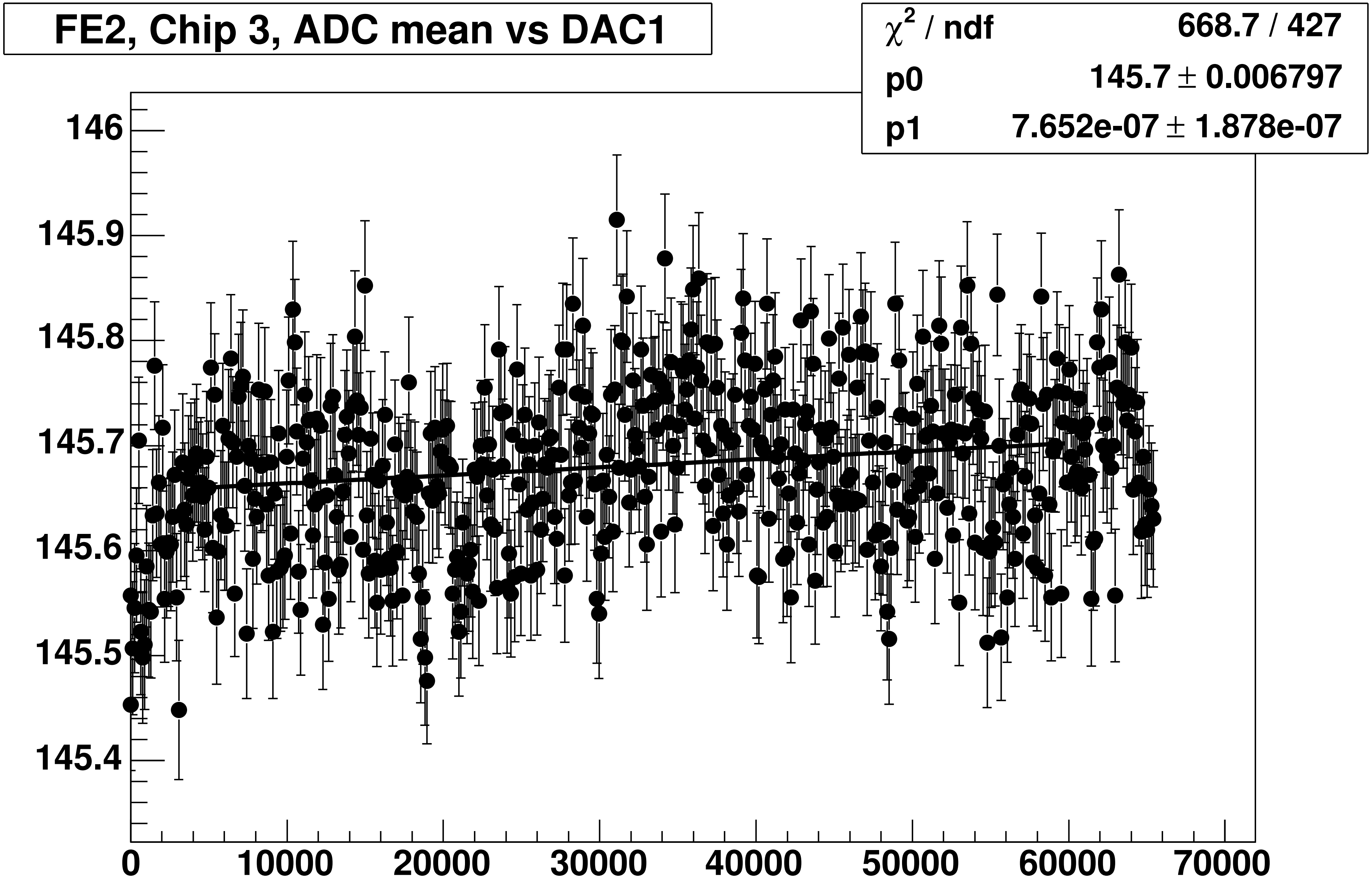
FE2, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 1.102e+05 / 427
p0 146.1 ± 0.007108
p1 0.4526 ± 2.316e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

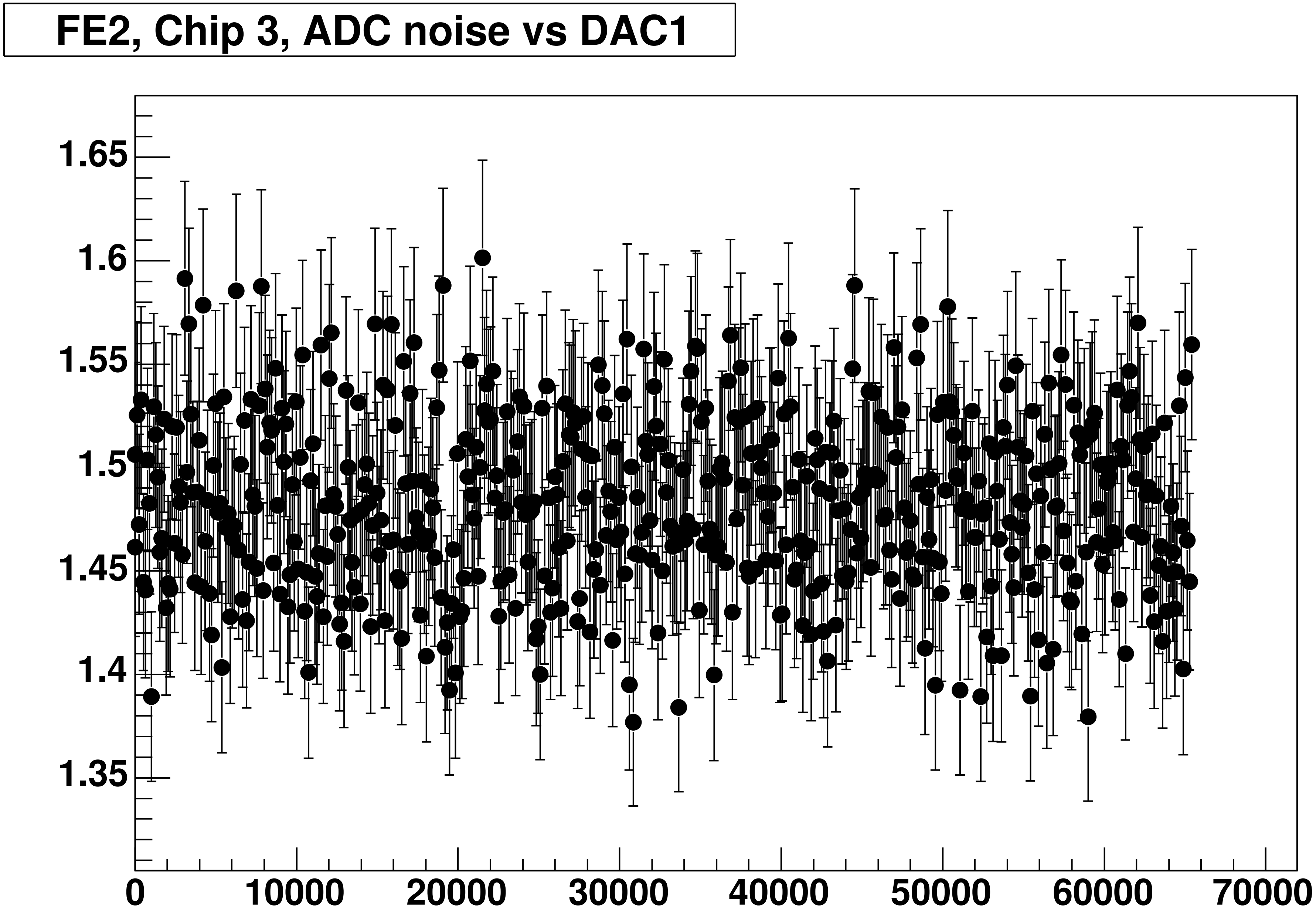


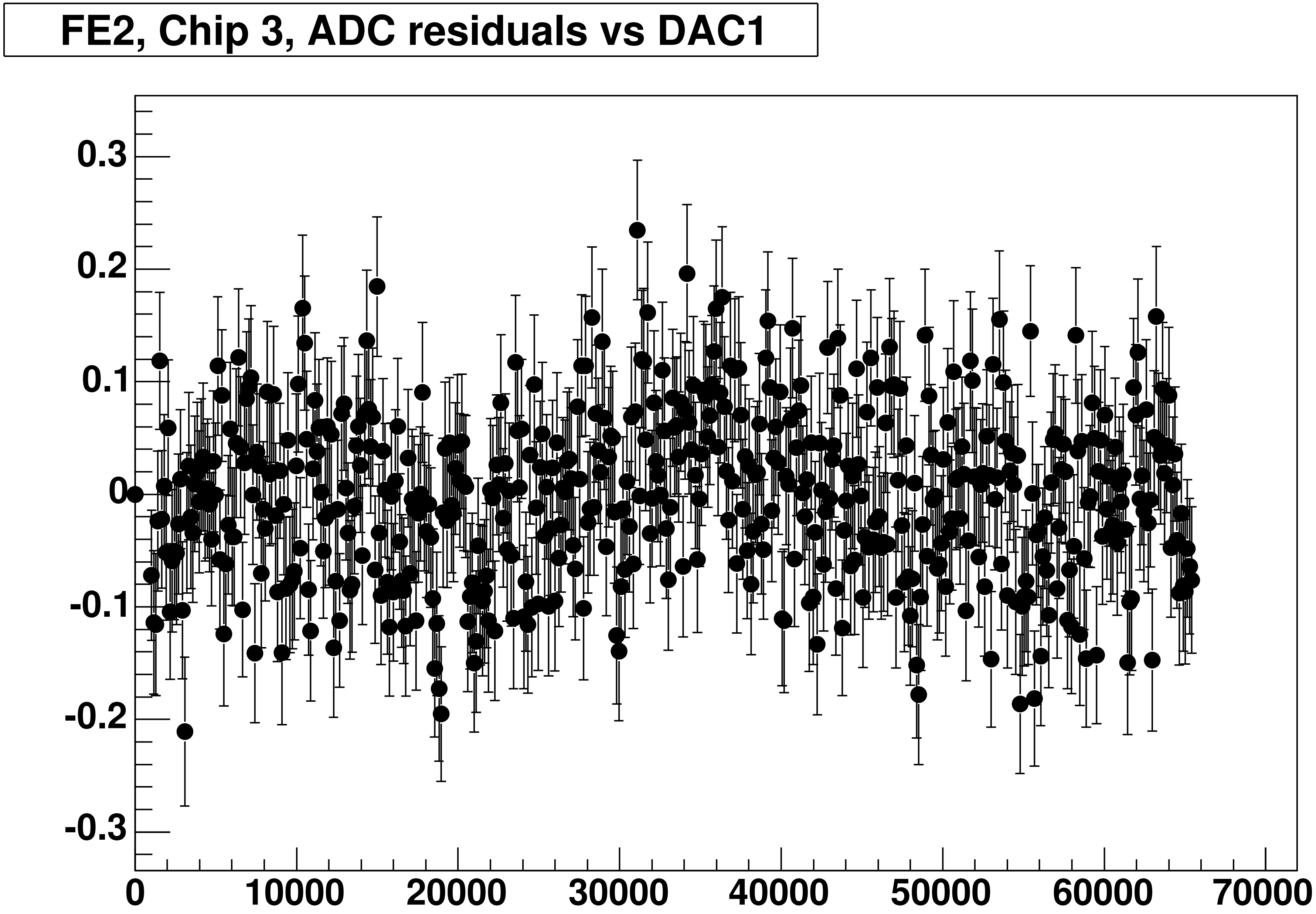
FE2, Chip 3, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000
70000

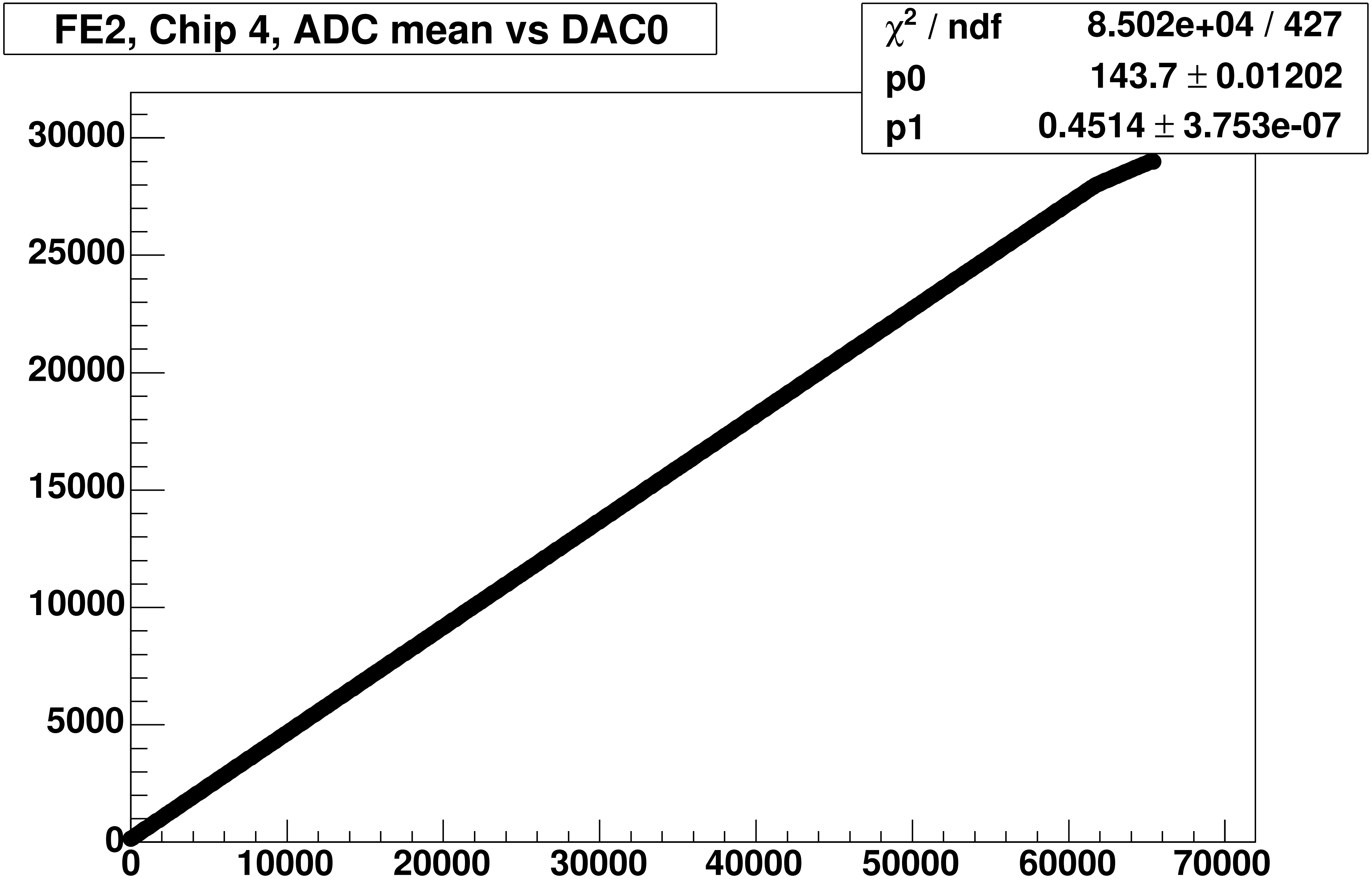


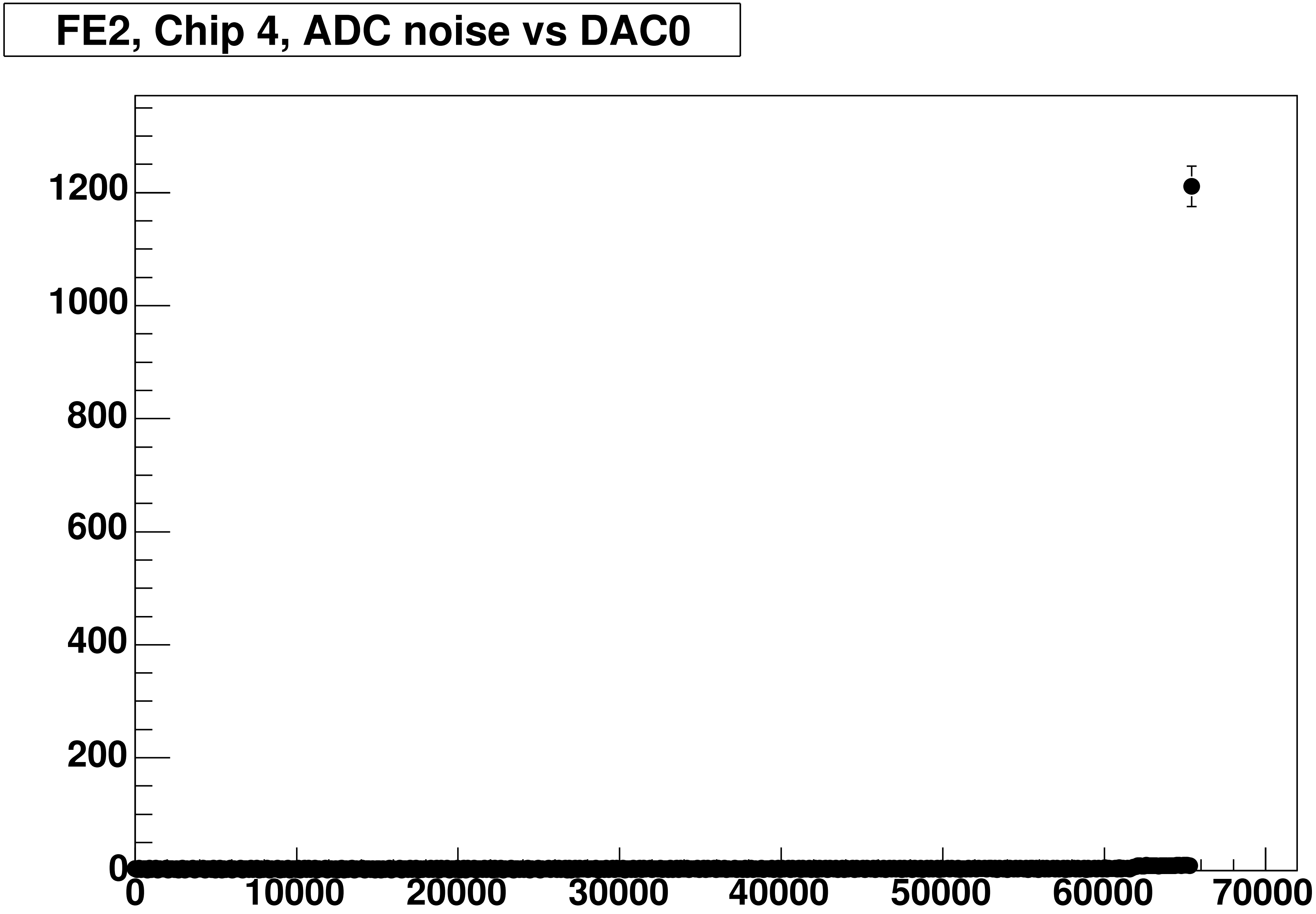
FE2, Chip 3, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
-700
0
10000
20000
30000
40000
50000
60000
70000

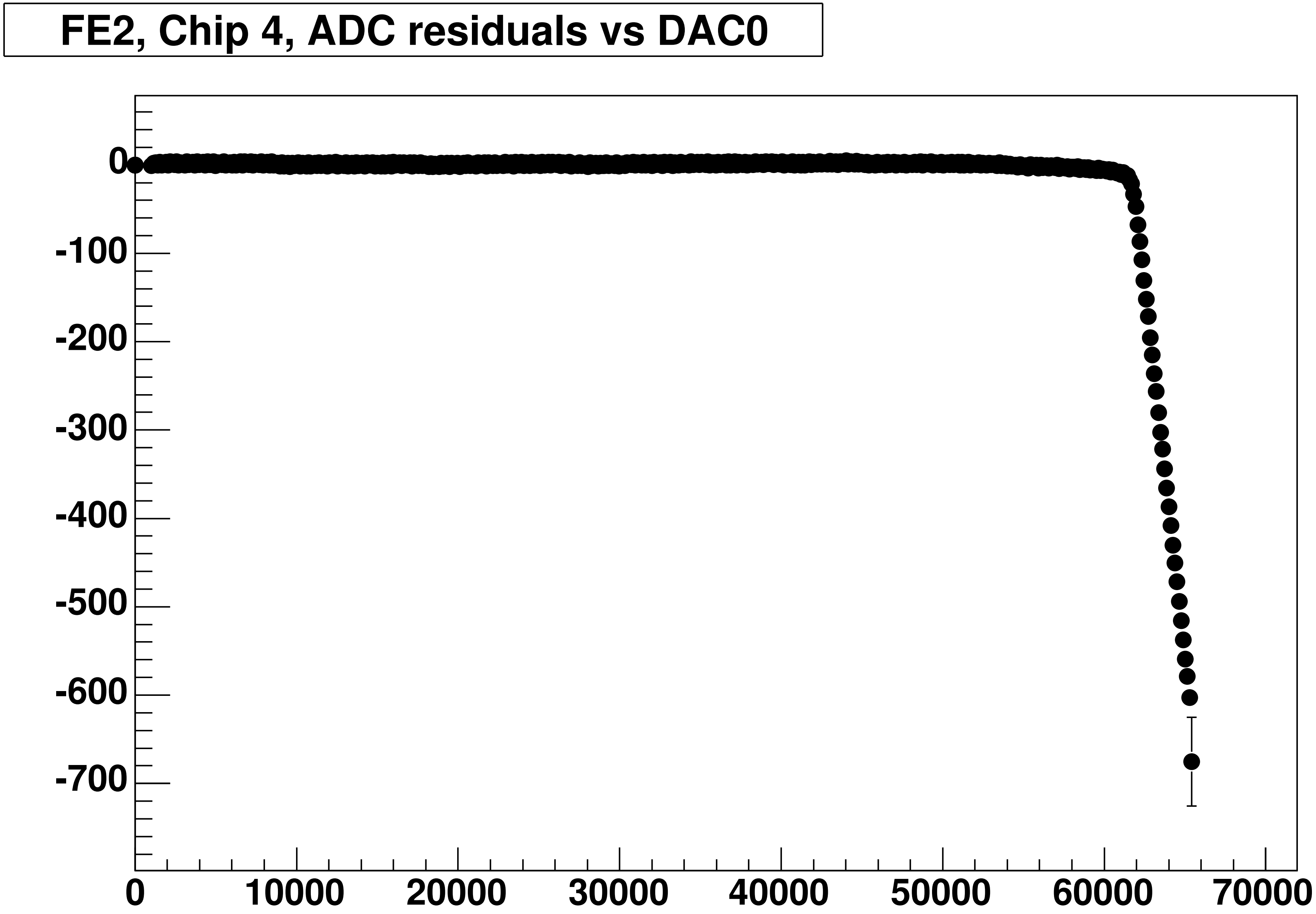

FE2, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 668.7 / 427
p0 145.7 ± 0.006797
p1 7.652e-07 ± 1.878e-07
146
145.9
145.8
145.7
145.6
145.5
145.4
0
10000
20000
30000
40000
50000
60000
70000

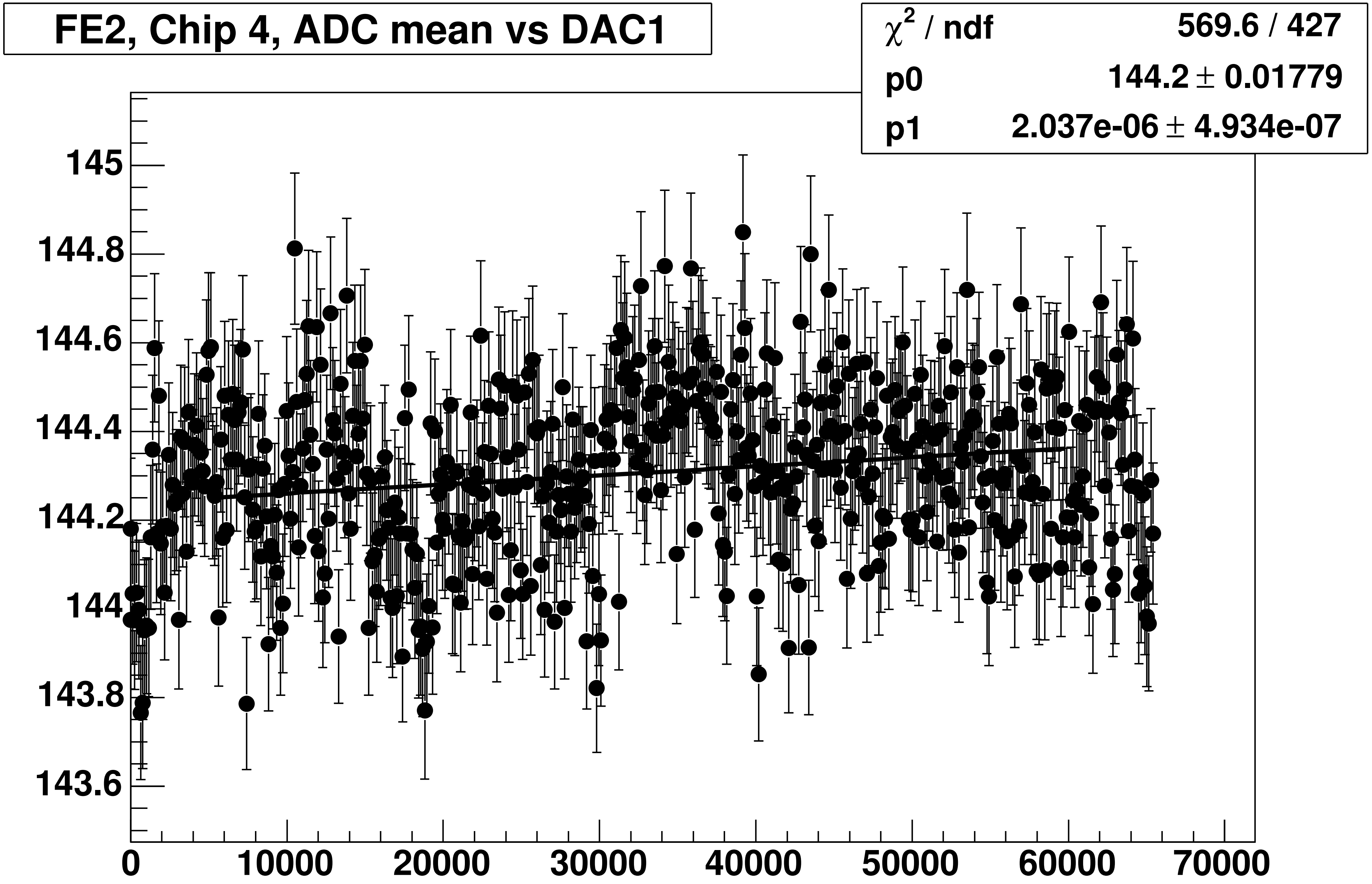

FE2, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000
70000

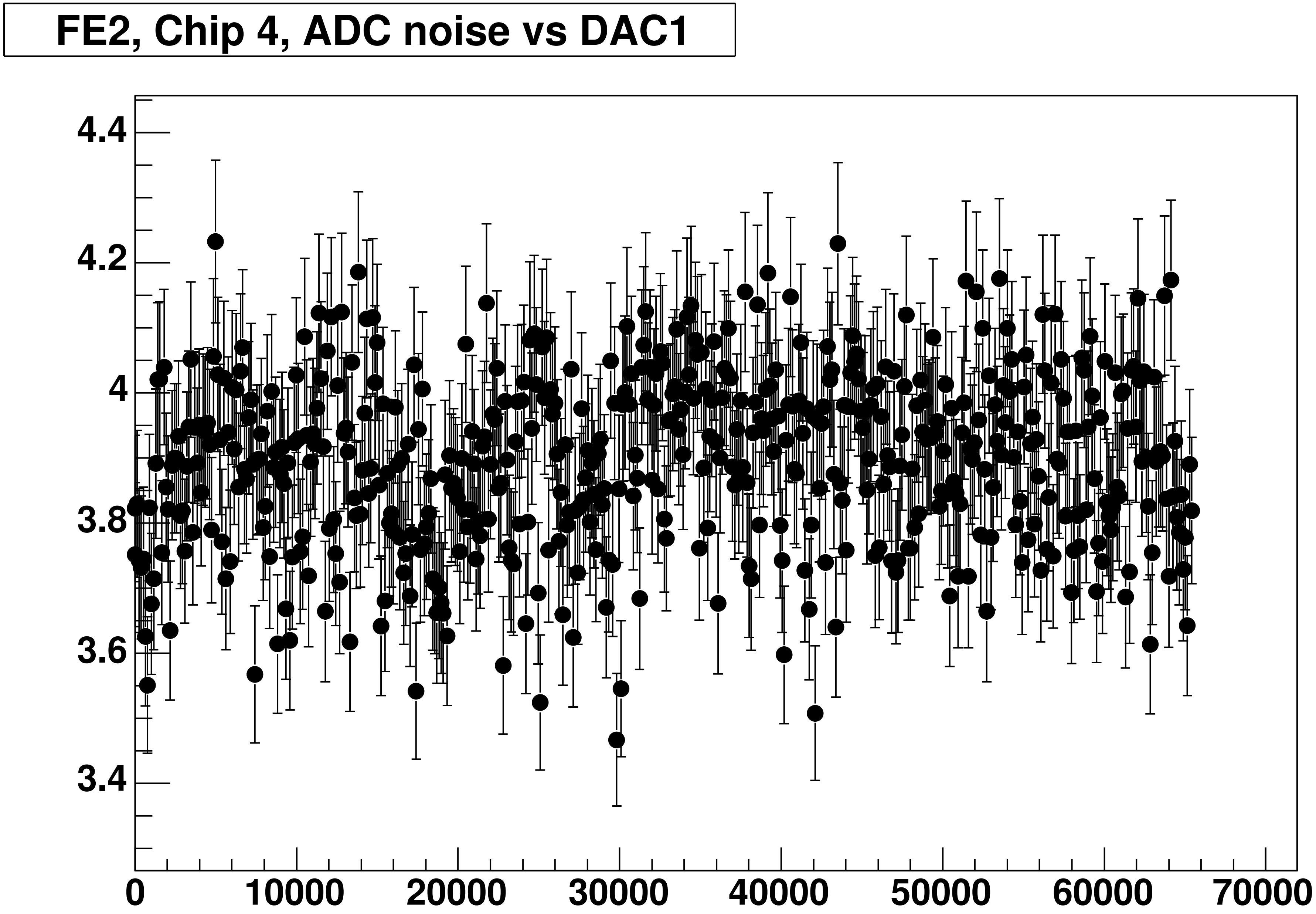

FE2, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000
70000

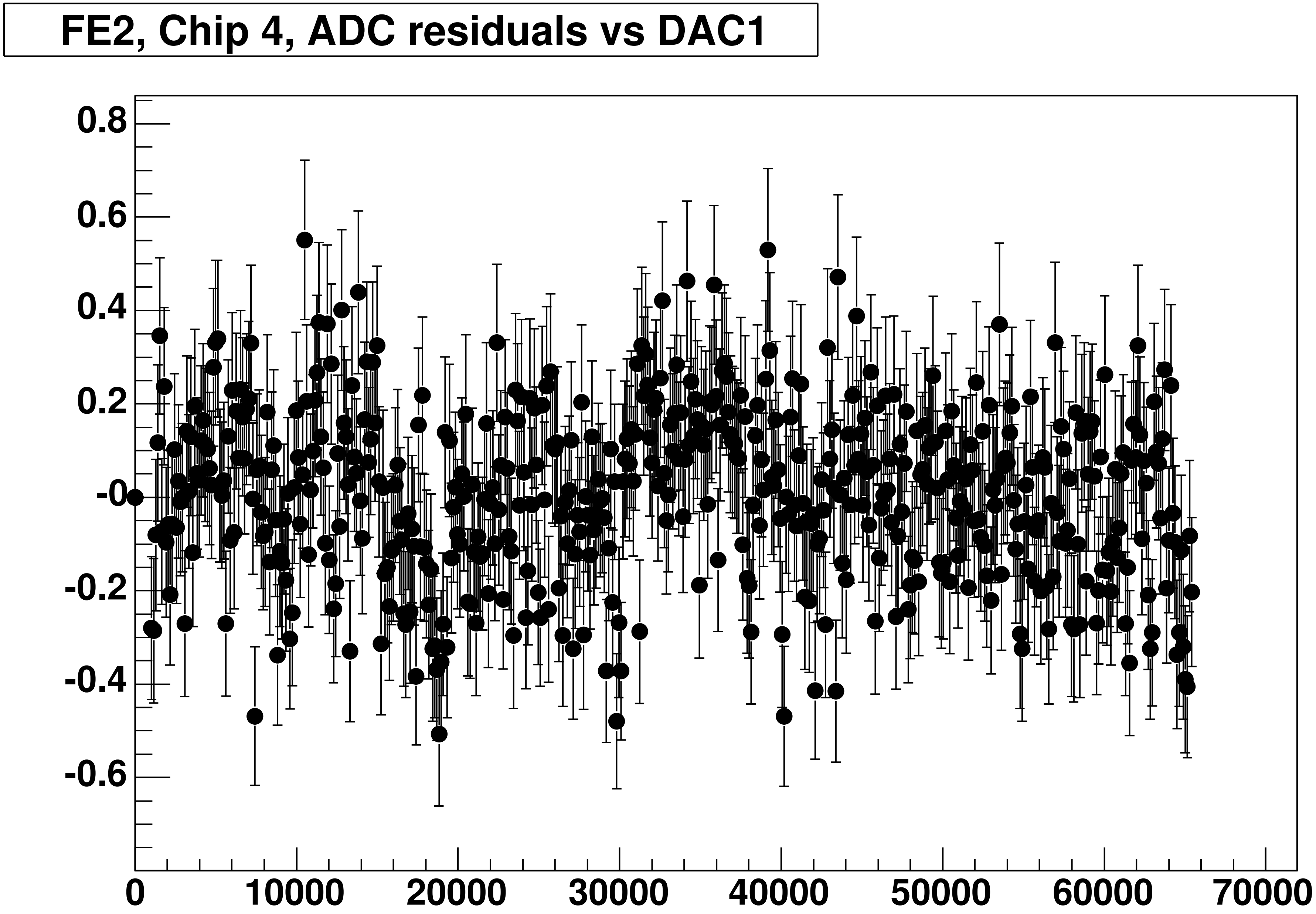

FE2, Chip 4, ADC mean vs DAC0
$\chi^2$ / ndf 8.502e+04 / 427
p0 143.7 ± 0.01202
p1 0.4514 ± 3.753e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

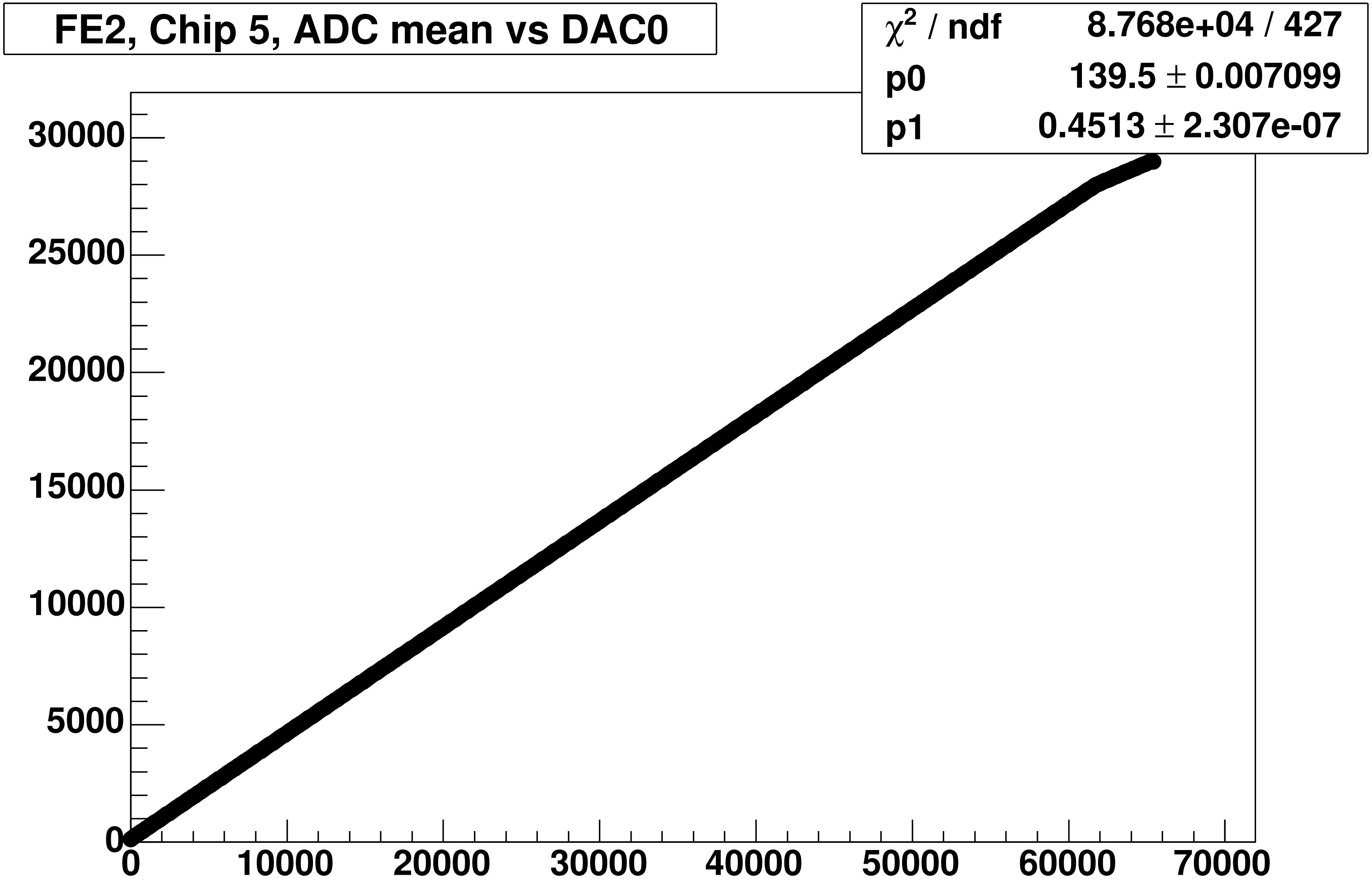

FE2, Chip 4, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000


FE2, Chip 4, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
-700
0
10000
20000
30000
40000
50000
60000
70000

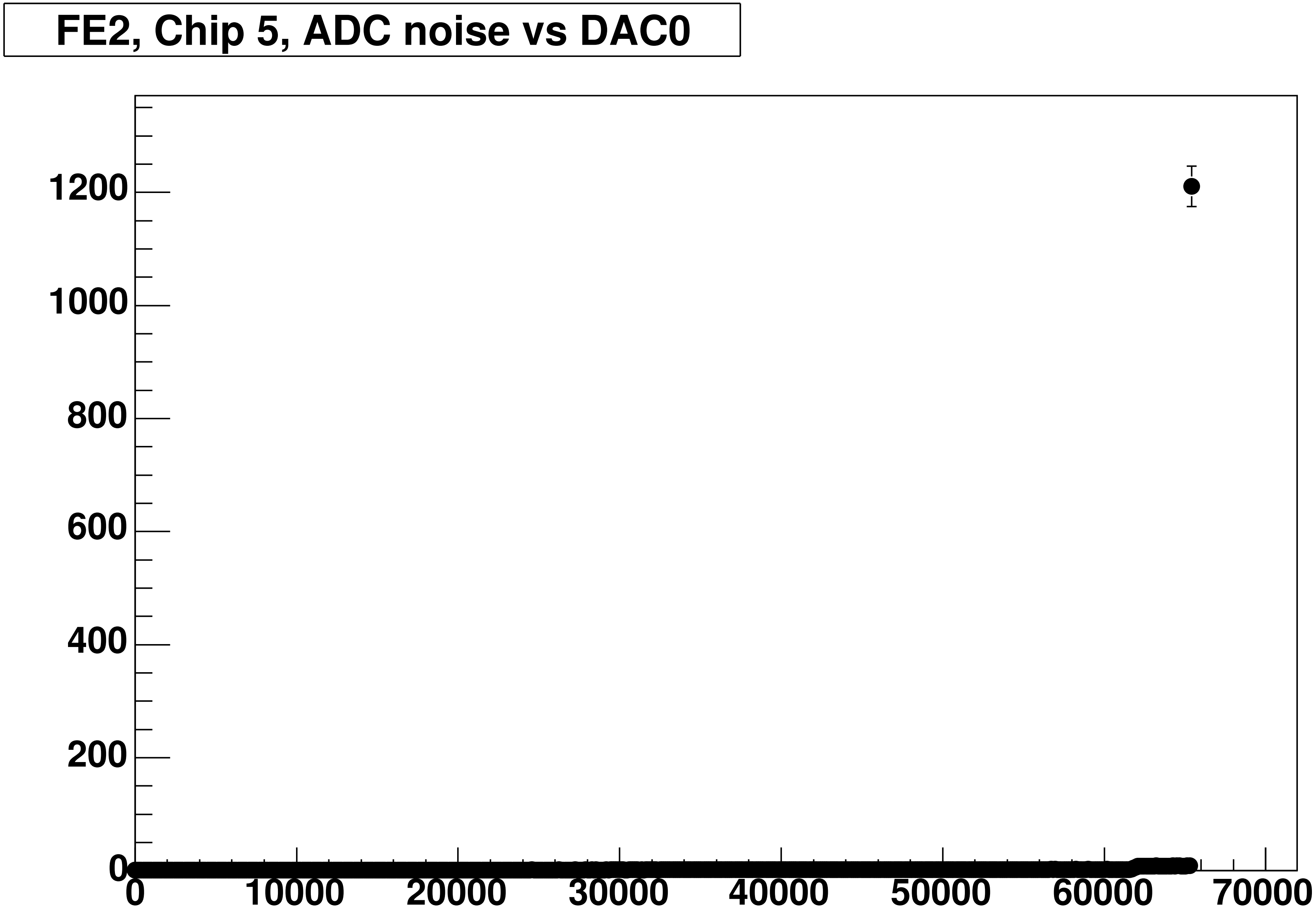

FE2, Chip 4, ADC mean vs DAC1
$\chi^2$ / ndf 569.6 / 427
p0 144.2 ± 0.01779
p1 2.037e-06 ± 4.934e-07
145
144.8
144.6
144.4
144.2
144
143.8
143.6
0
10000
20000
30000
40000
50000
60000
70000

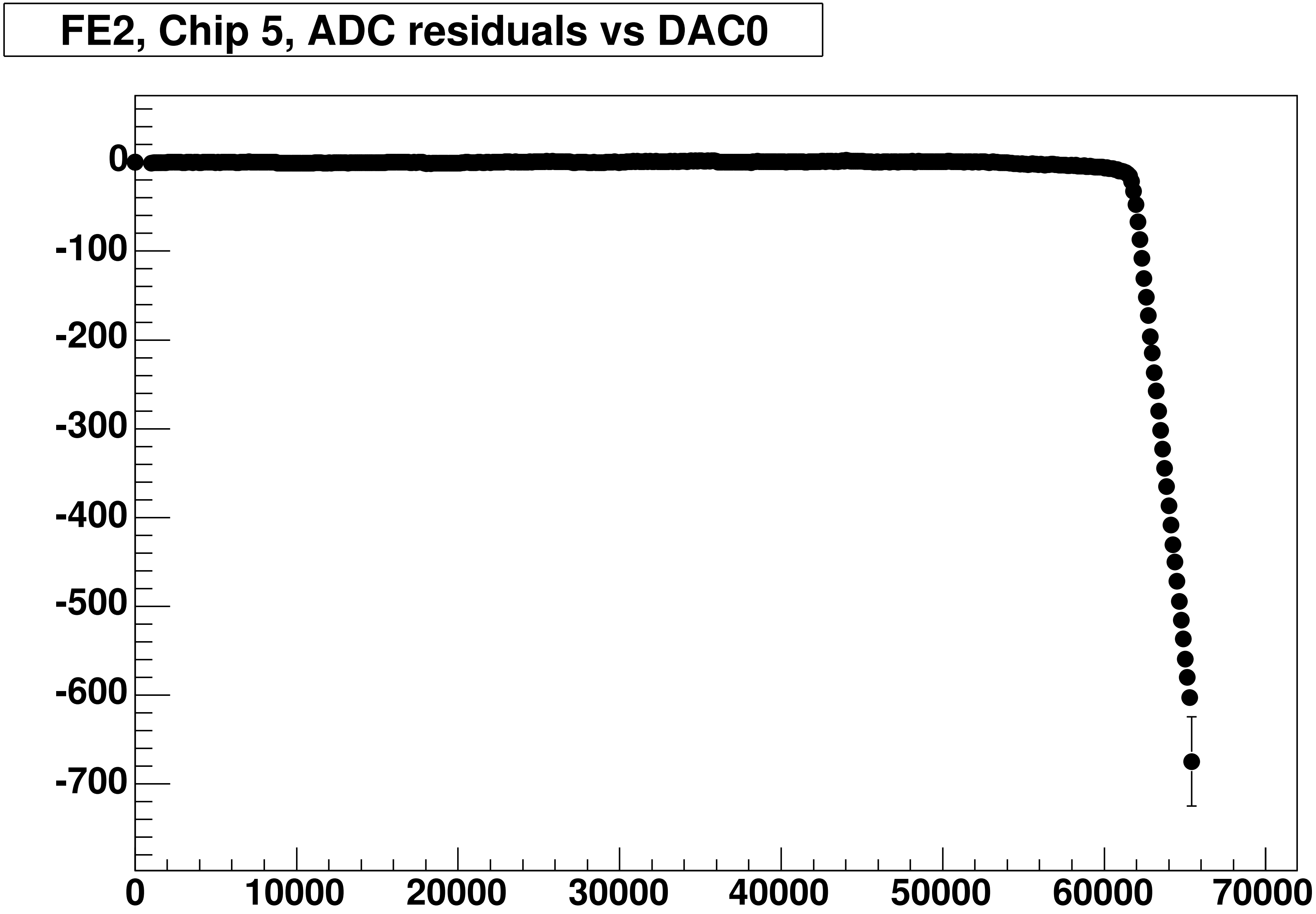

FE2, Chip 4, ADC noise vs DAC1
4.4
4.2
4
3.8
3.6
3.4
0
10000
20000
30000
40000
50000
60000
70000

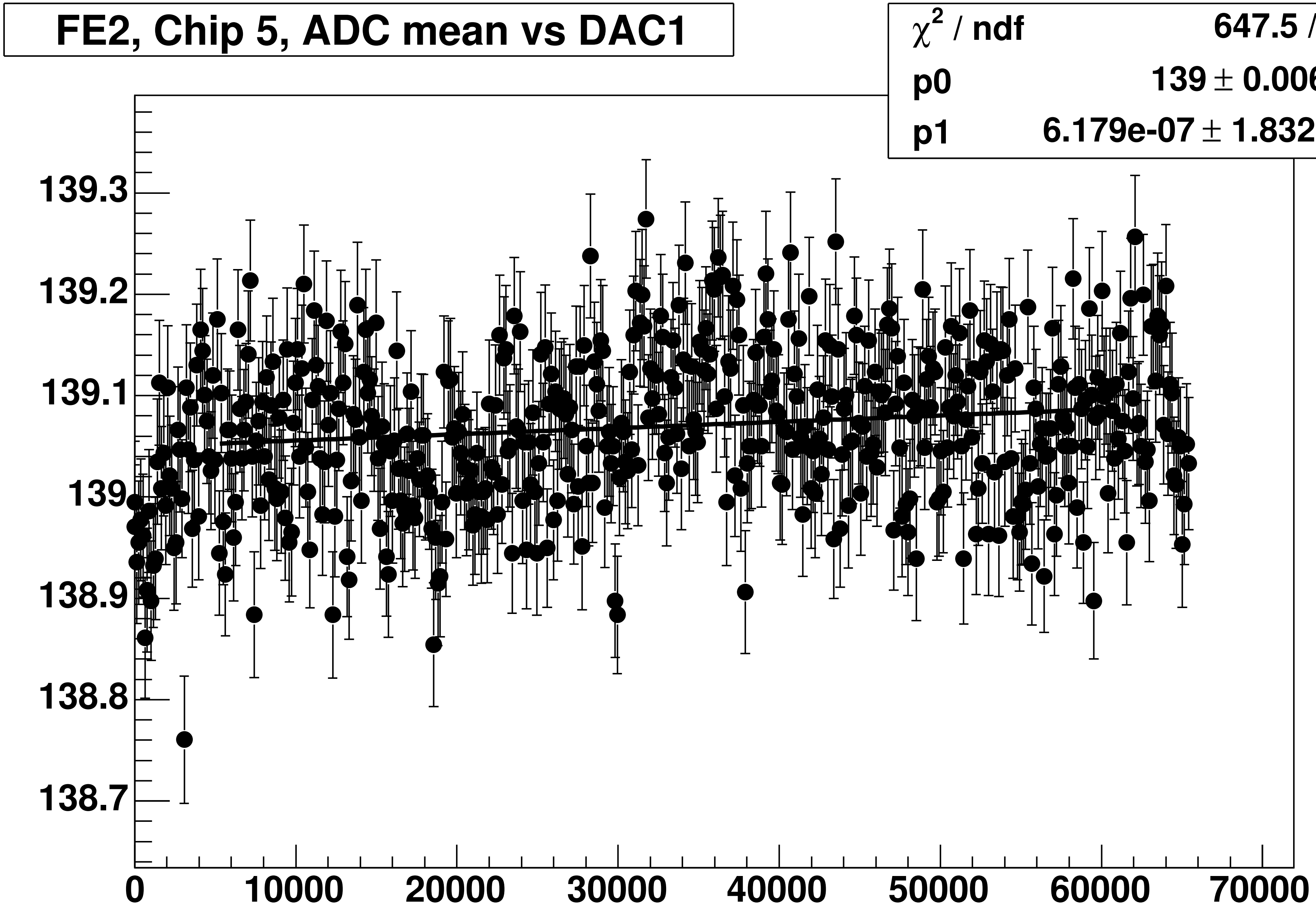

FE2, Chip 4, ADC residuals vs DAC1
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000

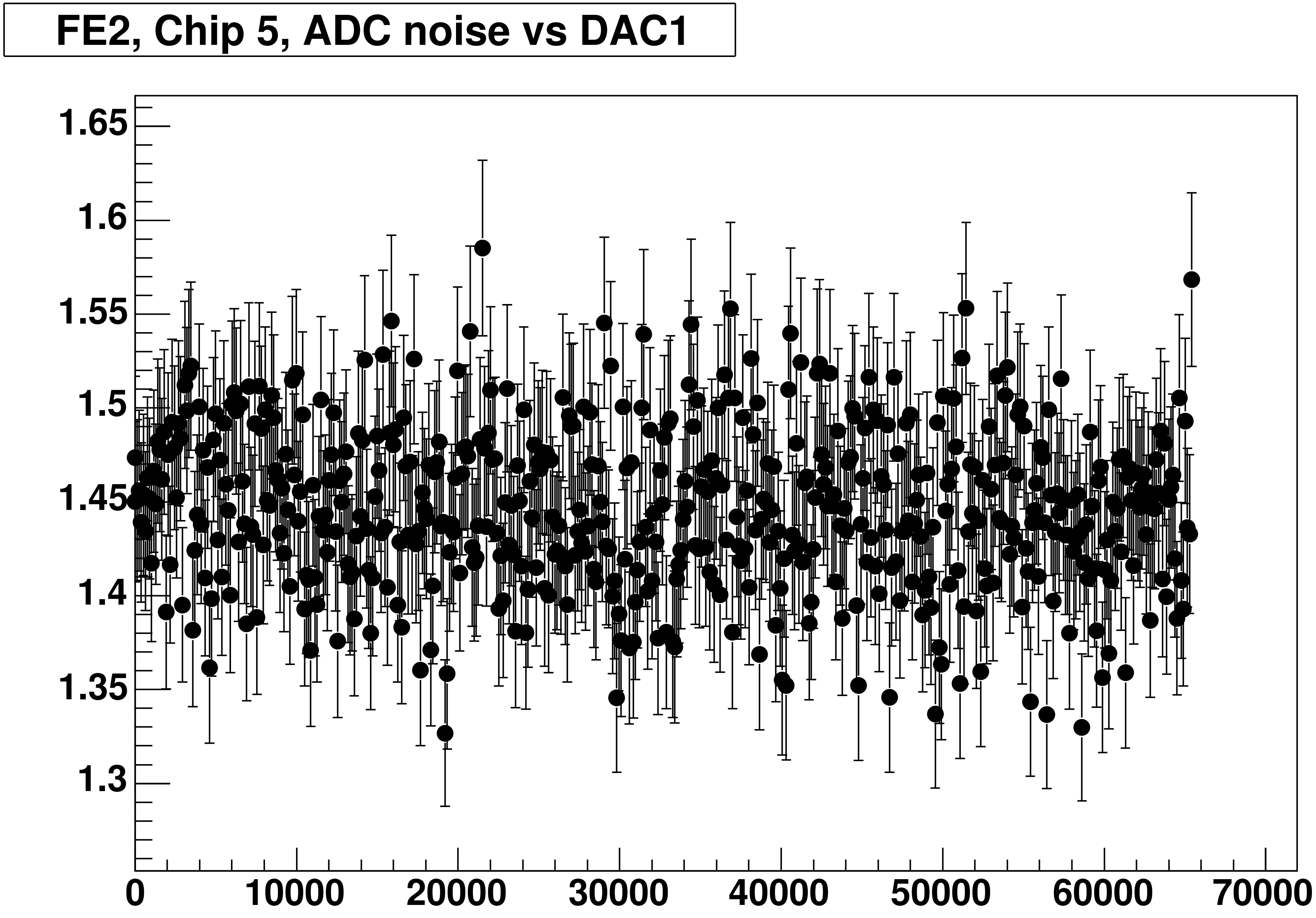


FE2, Chip 5, ADC mean vs DAC0
χ² / ndf 8.768e+04 / 427
p0 139.5 ± 0.007099
p1 0.4513 ± 2.307e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000

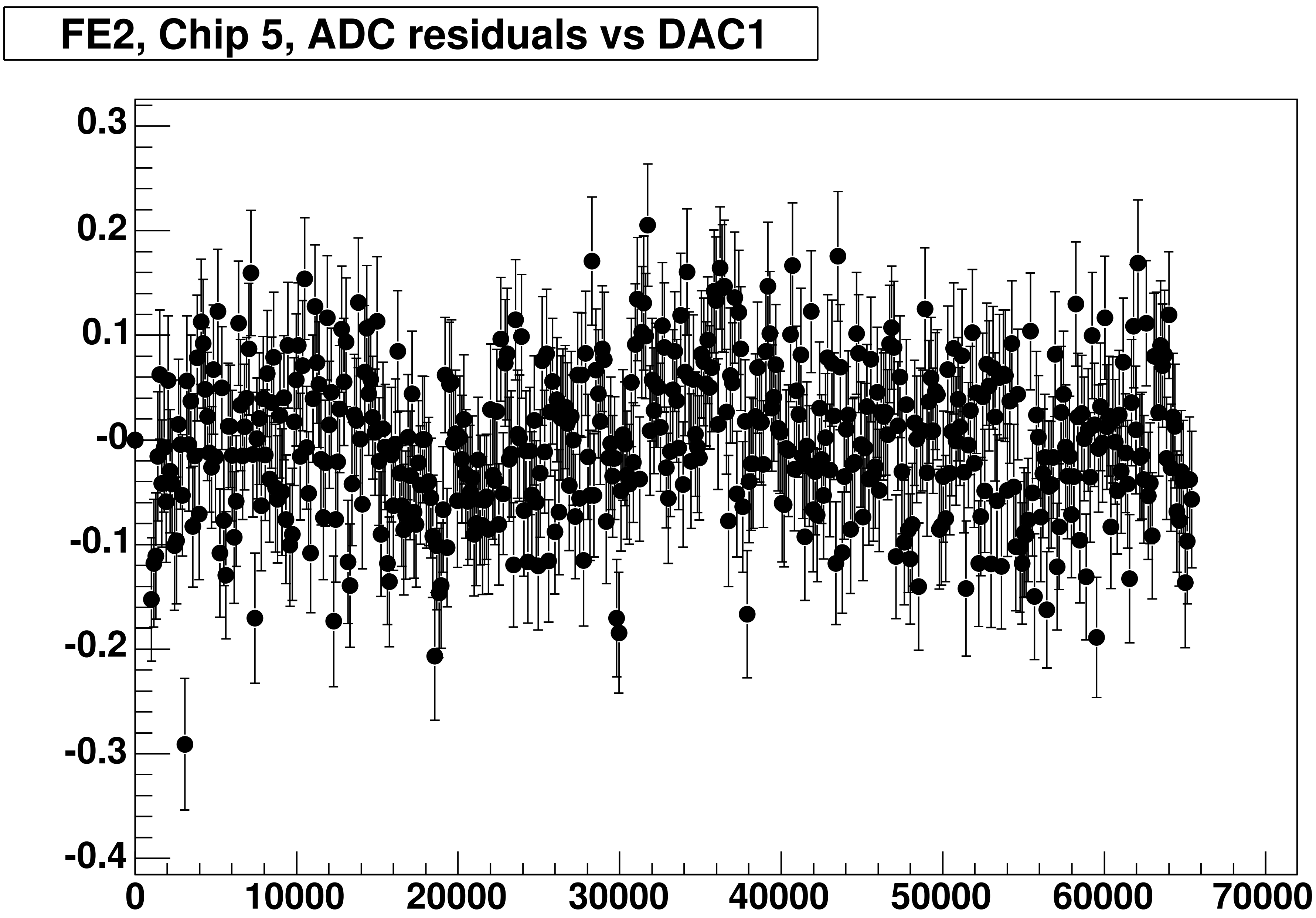

FE2, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000

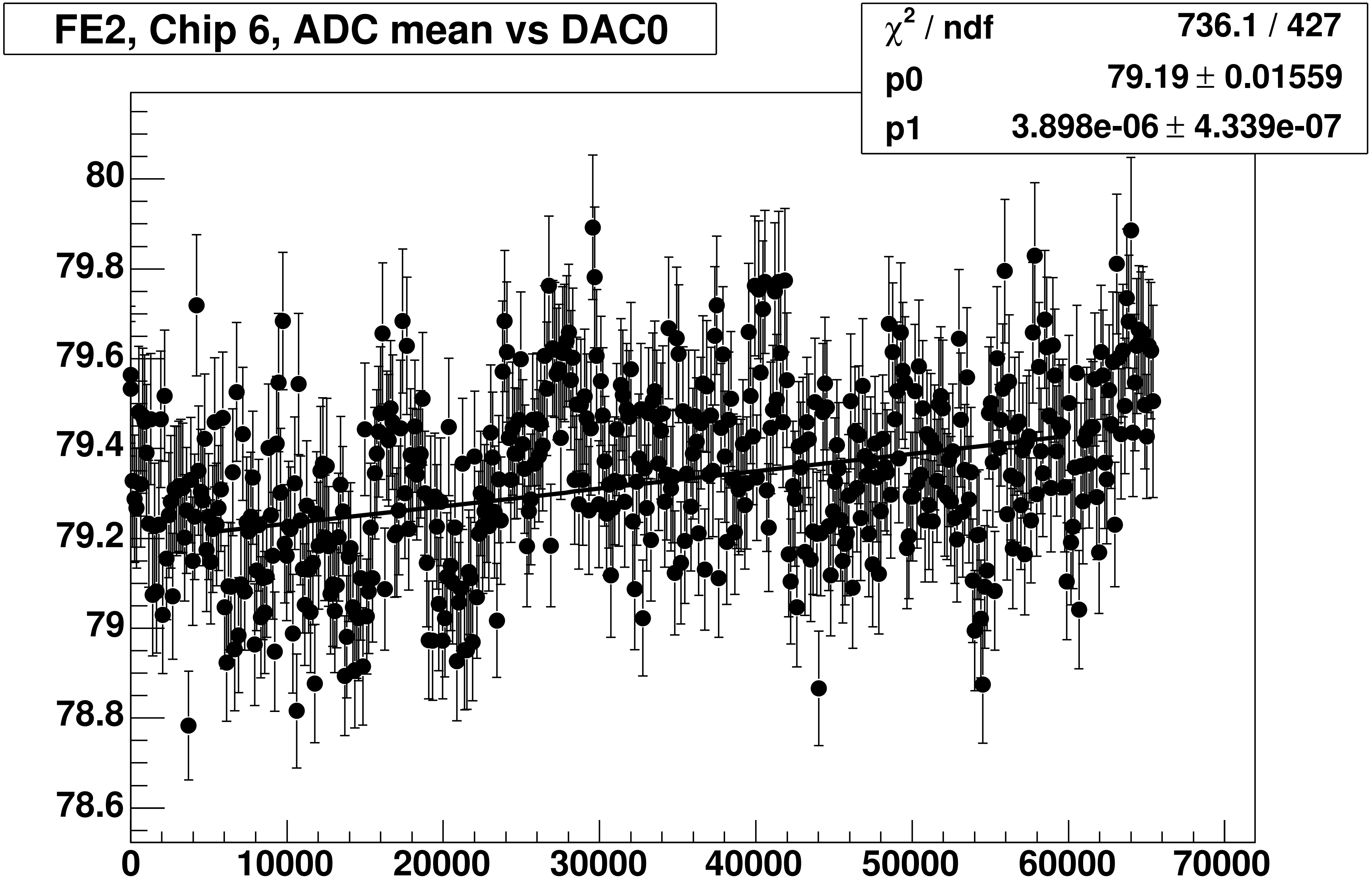

FE2, Chip 5, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
-700
0
10000
20000
30000
40000
50000
60000
70000

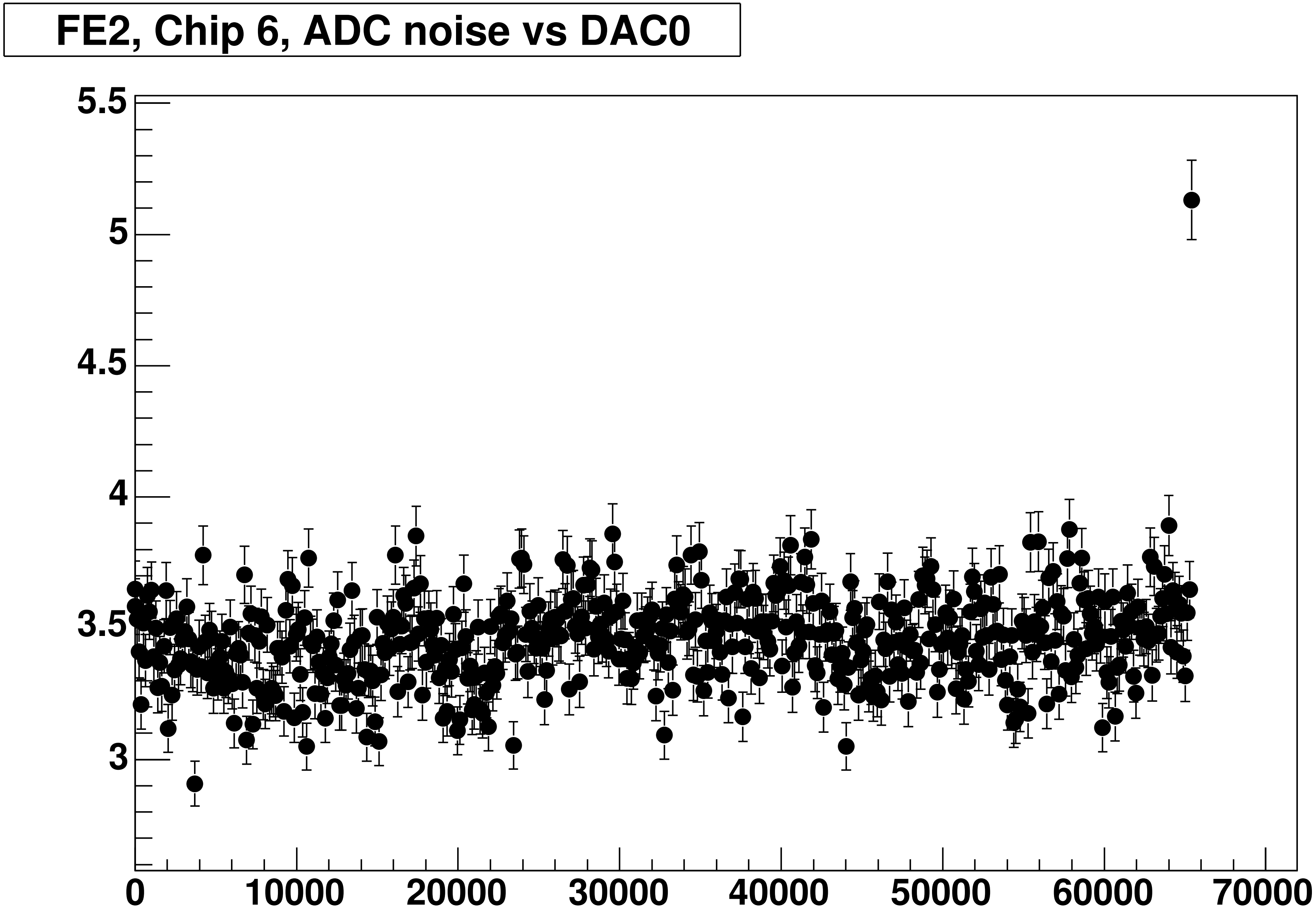

FE2, Chip 5, ADC mean vs DAC1
$\chi^2$ / ndf 647.5 / 427
p0 139 ± 0.006642
p1 6.179e-07 ± 1.832e-07
139.3
139.2
139.1
139
138.9
138.8
138.7
0
10000
20000
30000
40000
50000
60000
70000

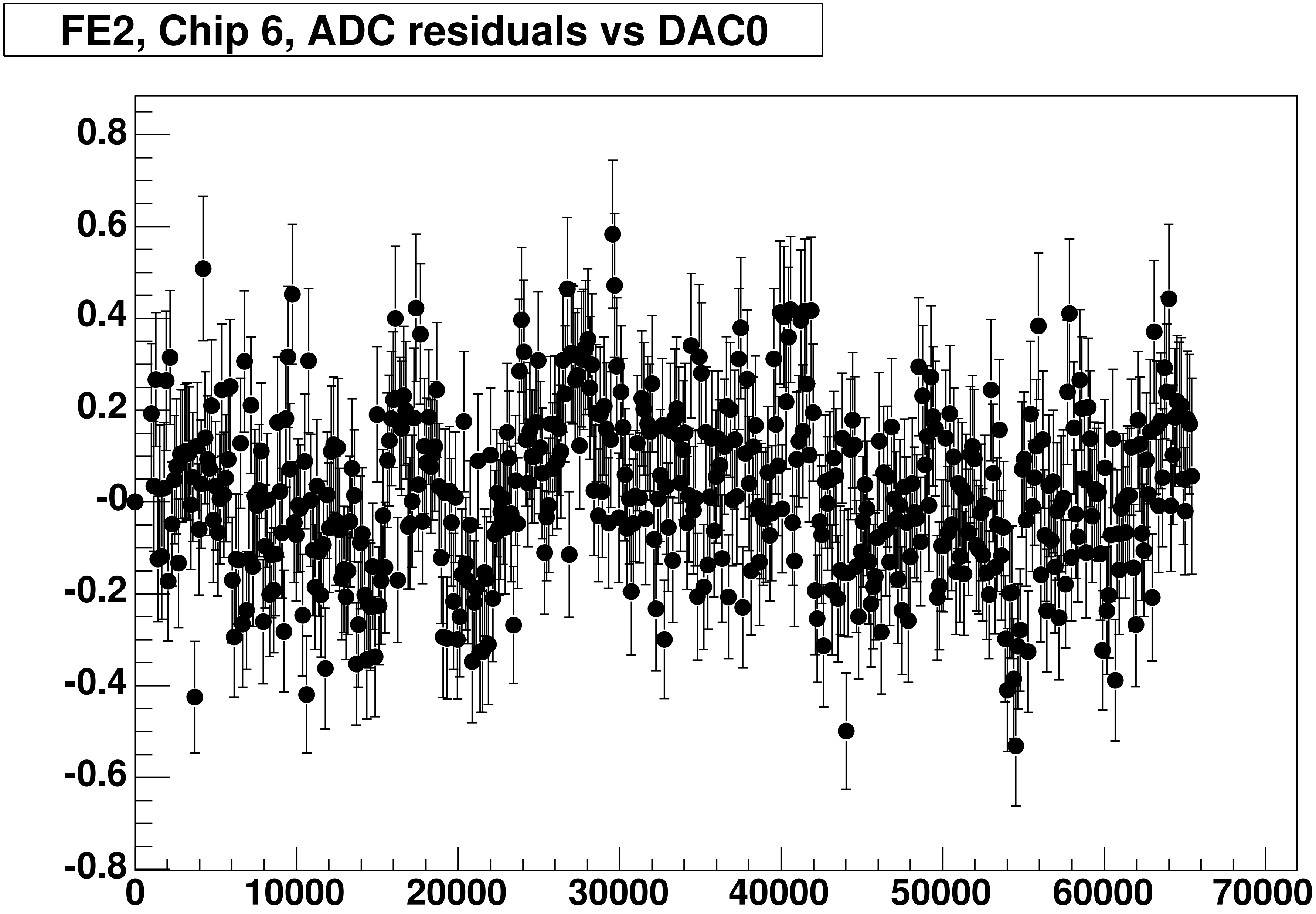


FE2, Chip 5, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000
70000

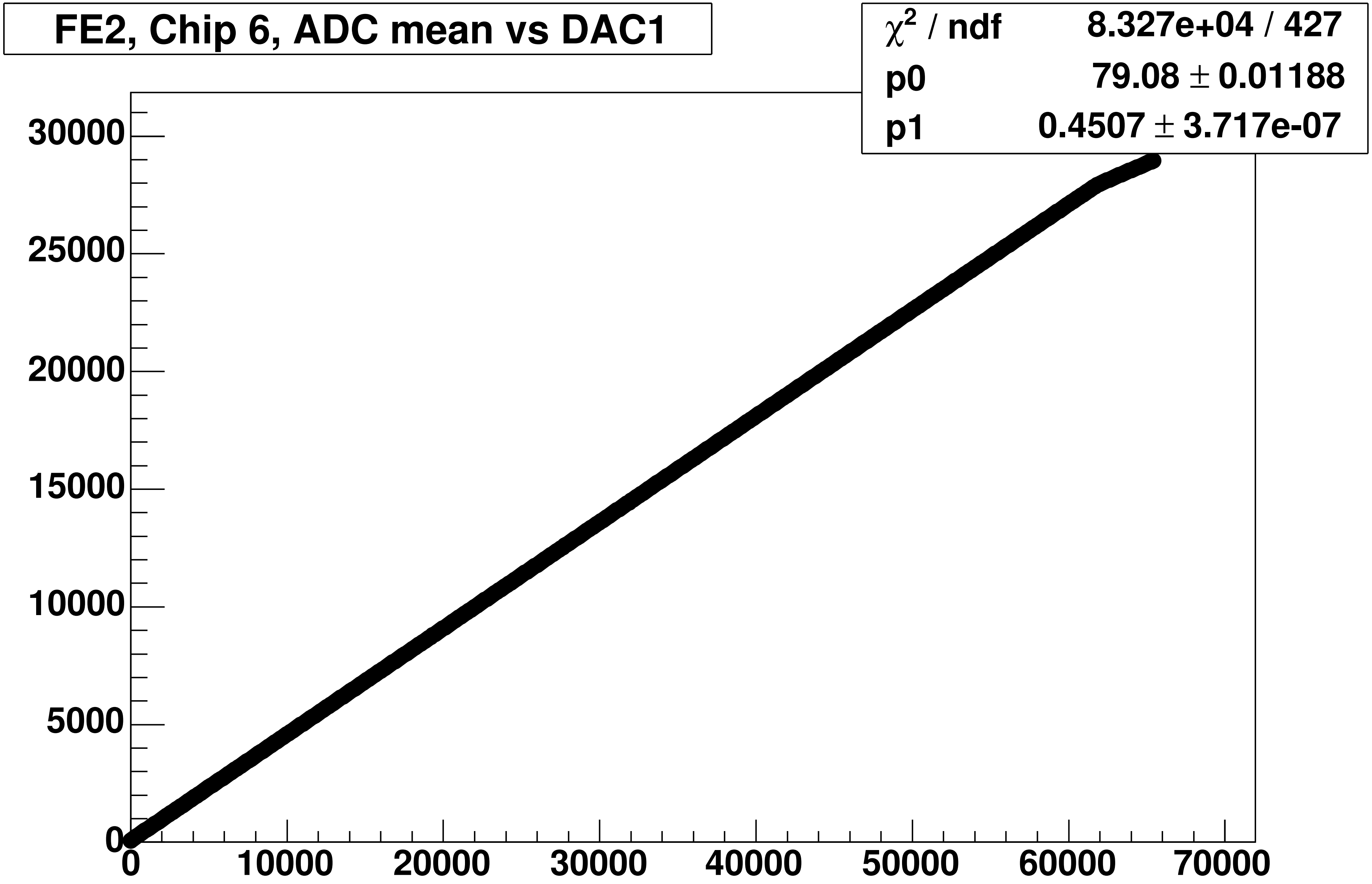

FE2, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000
70000


FE2, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 736.1 / 427
p0 79.19 ± 0.01559
p1 3.898e-06 ± 4.339e-07
80
79.8
79.6
79.4
79.2
79
78.8
78.6
0
10000
20000
30000
40000
50000
60000
70000

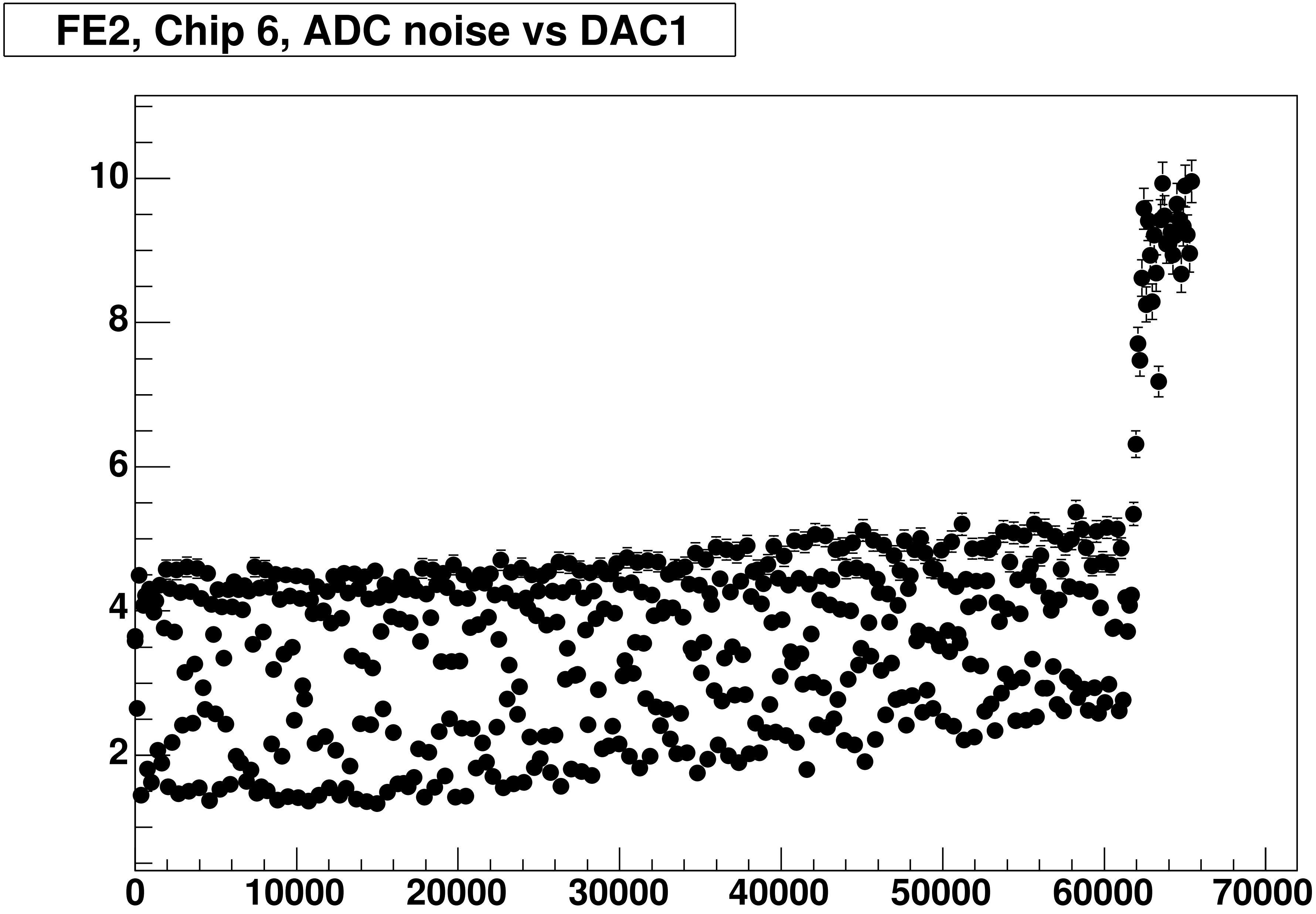

FE2, Chip 6, ADC noise vs DAC0
5.5
5
4.5
4
3.5
3
0
10000
20000
30000
40000
50000
60000
70000

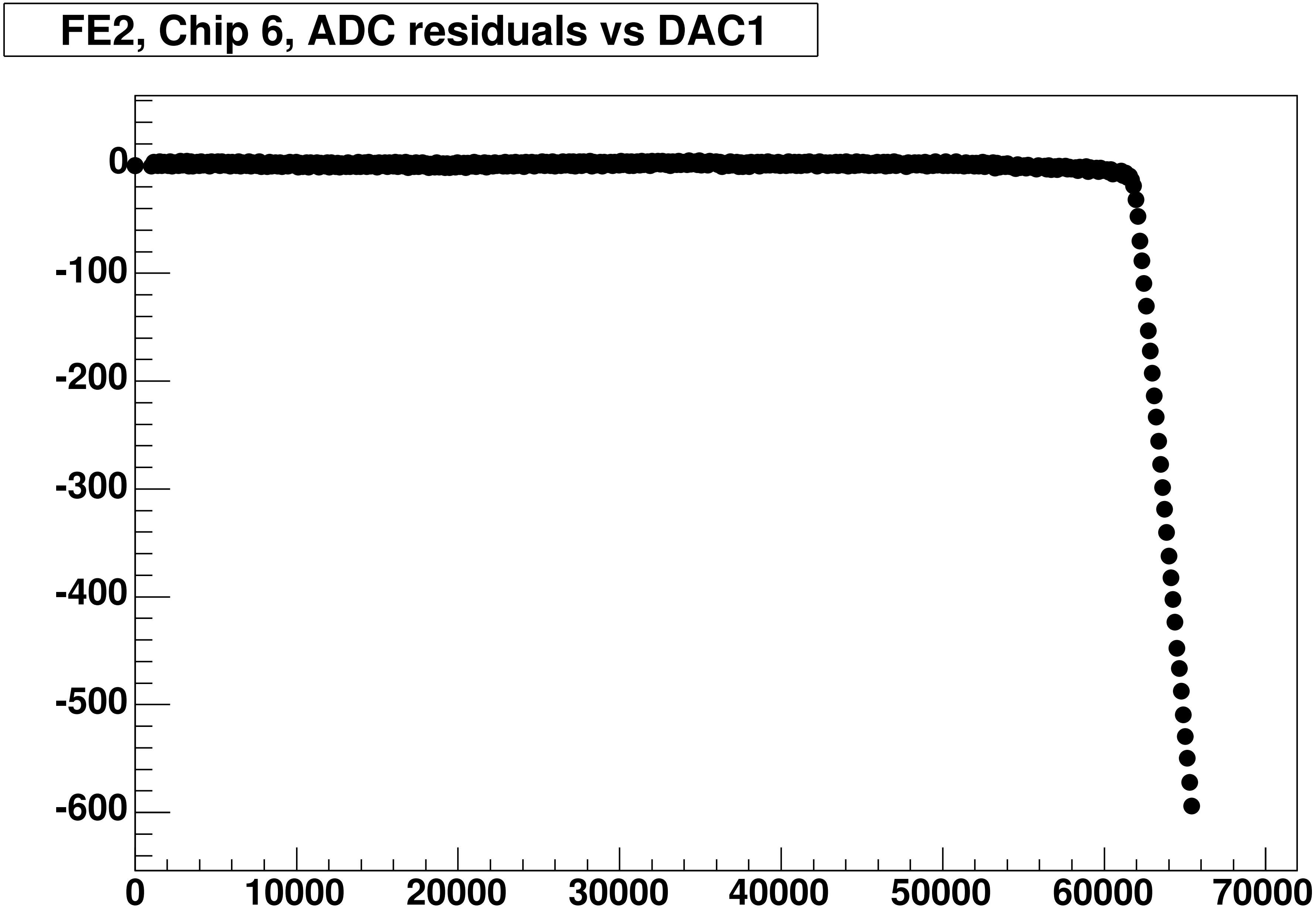


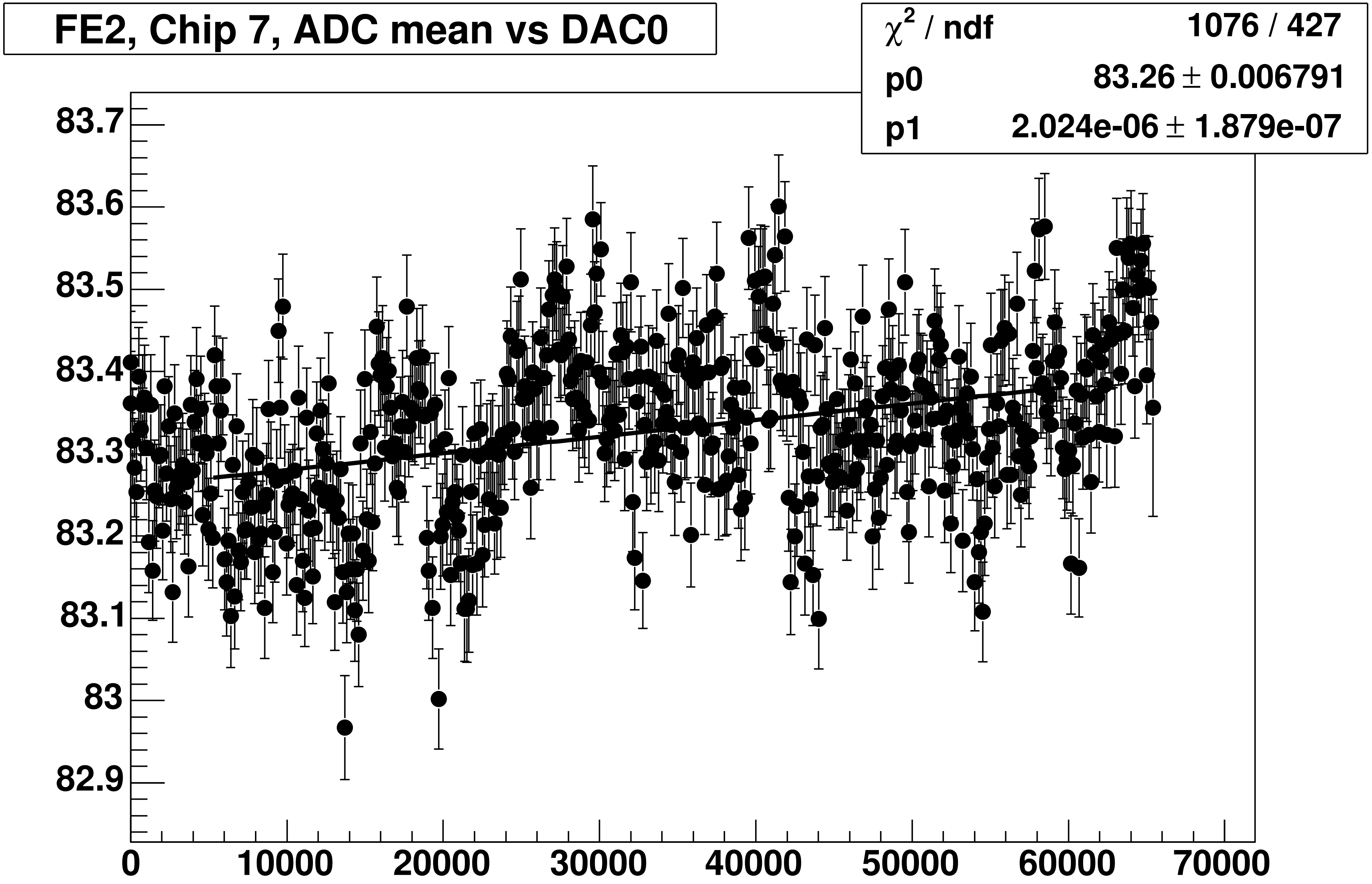
FE2, Chip 6, ADC residuals vs DAC0
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
0
10000
20000
30000
40000
50000
60000
70000



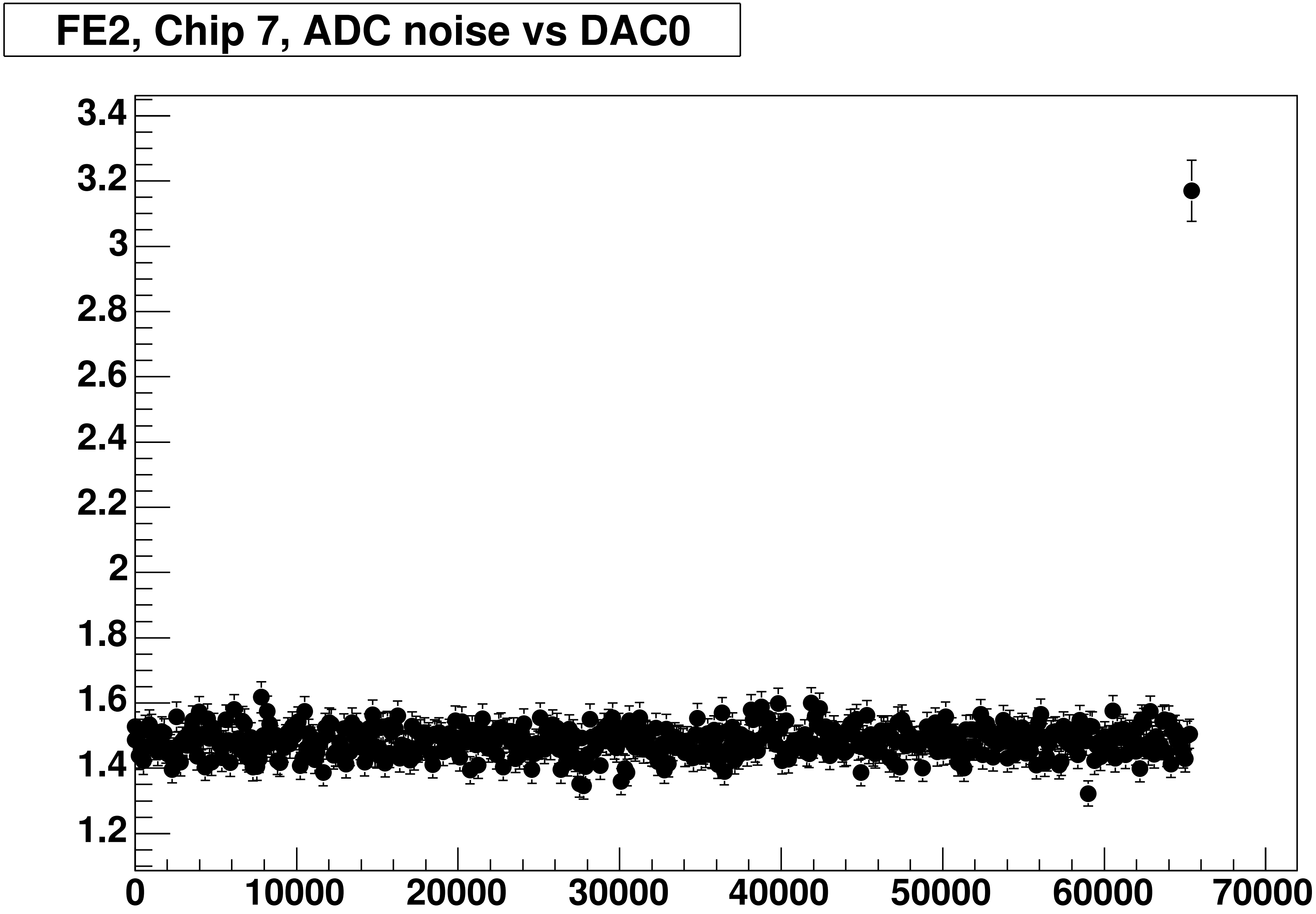
FE2, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 8.327e+04 / 427
p0 79.08 ± 0.01188
p1 0.4507 ± 3.717e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000


FE2, Chip 6, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000

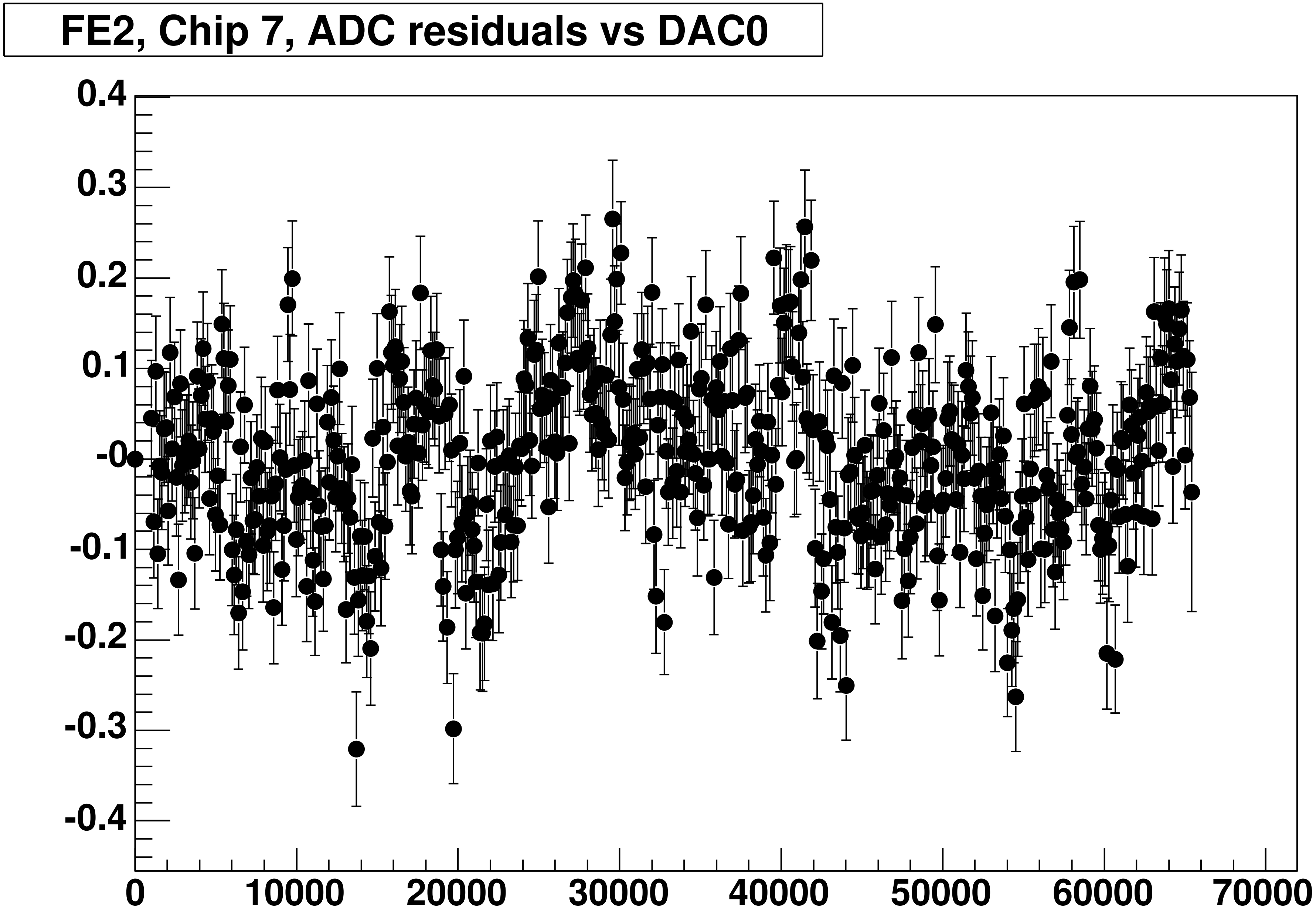

FE2, Chip 6, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

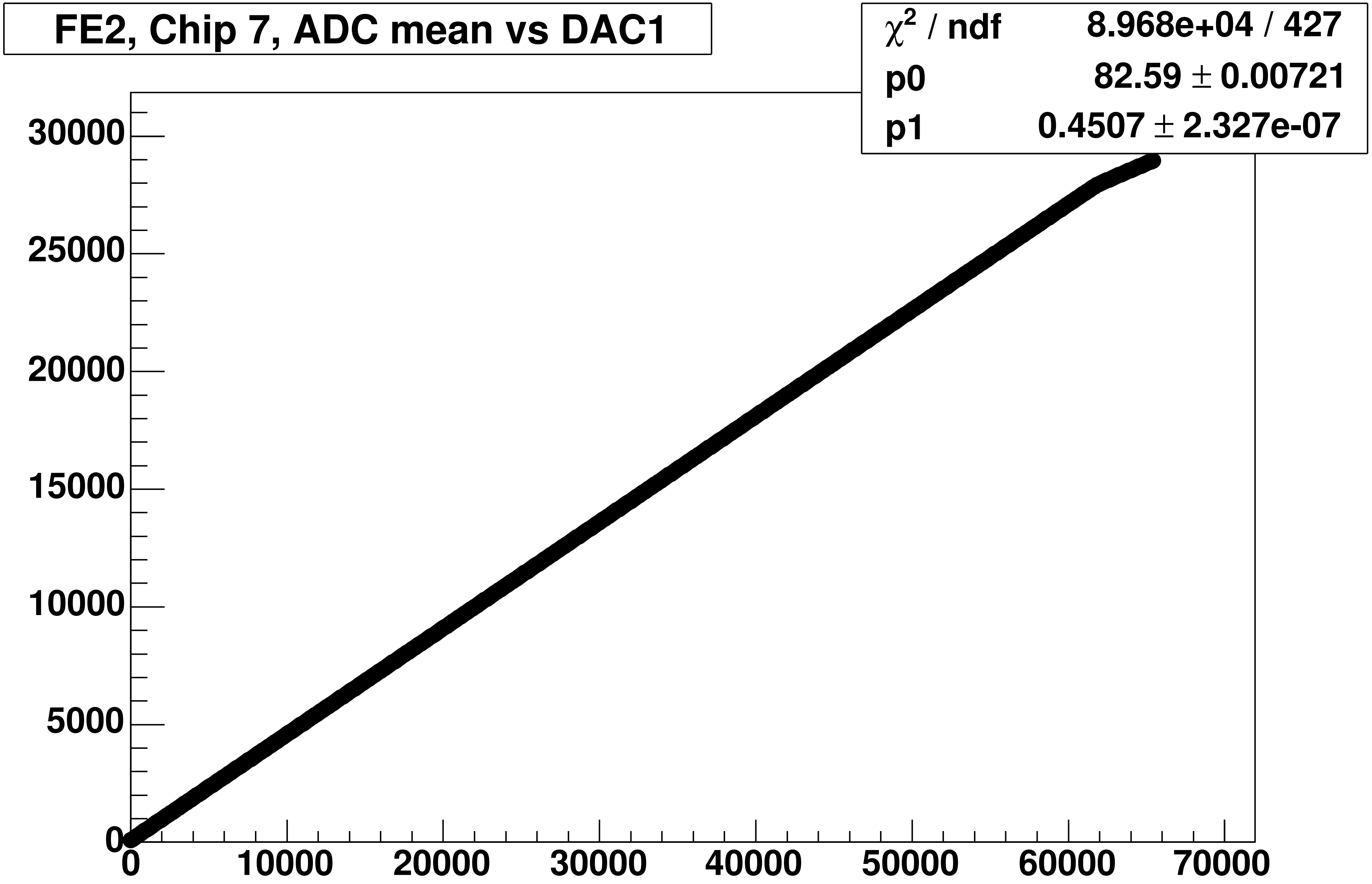


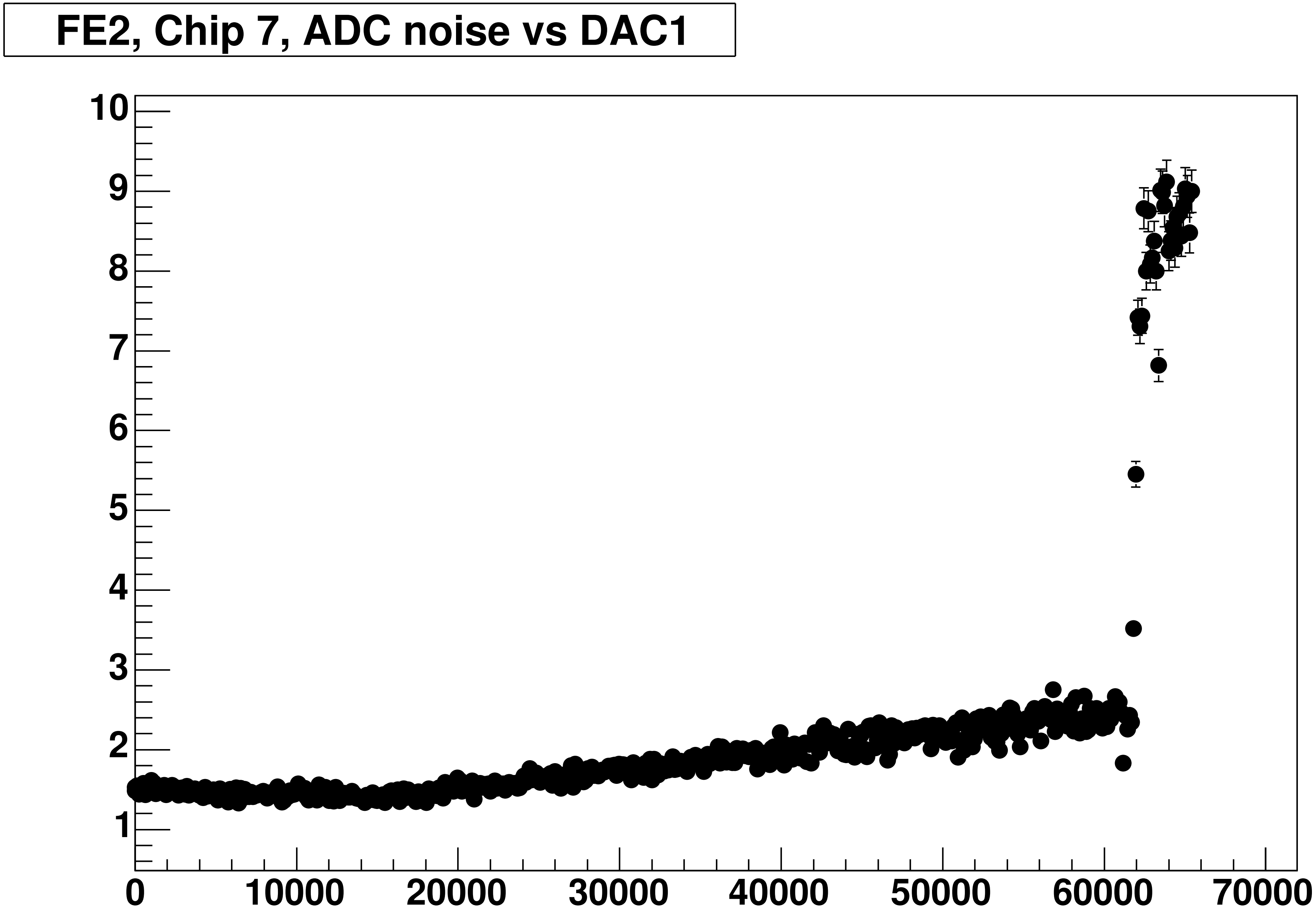
FE2, Chip 7, ADC mean vs DAC0
$\chi^2$ / ndf 1076 / 427
p0 83.26 ± 0.006791
p1 2.024e-06 ± 1.879e-07
83.7
83.6
83.5
83.4
83.3
83.2
83.1
83
82.9
0
10000
20000
30000
40000
50000
60000
70000

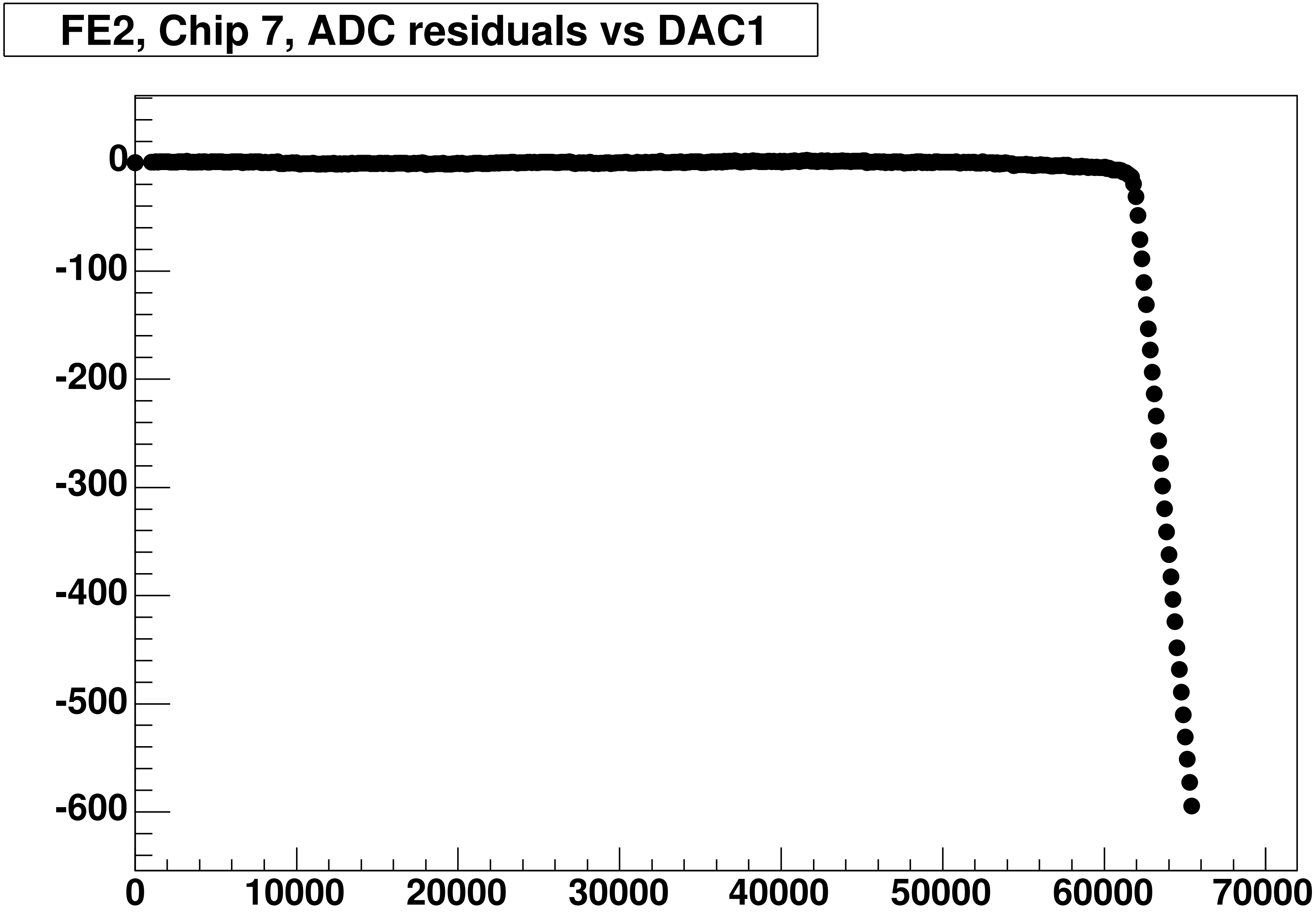


FE2, Chip 7, ADC noise vs DAC0
3.4
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000
70000

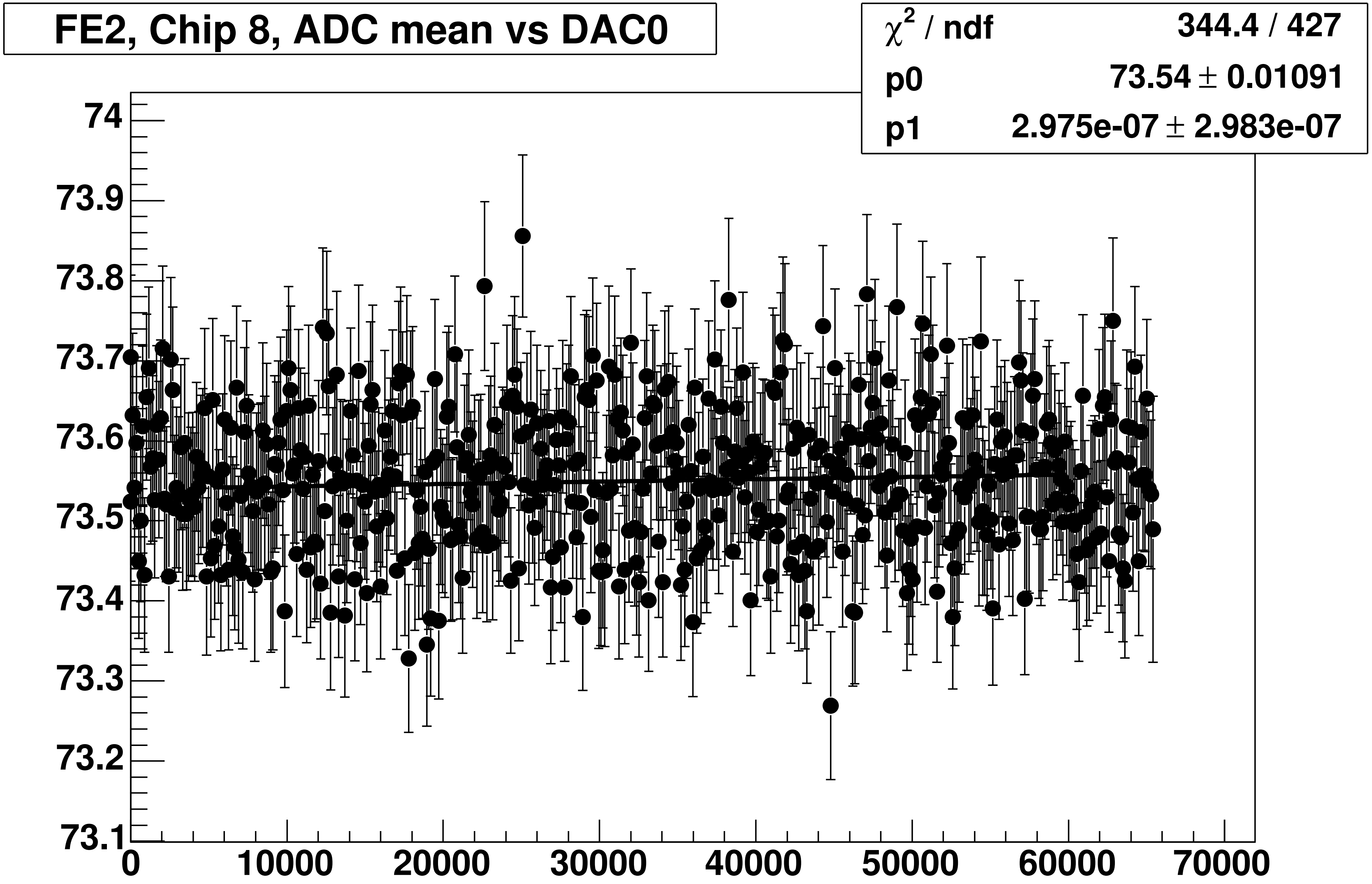

FE2, Chip 7, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000
70000


FE2, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 8.968e+04 / 427
p0 82.59 ± 0.00721
p1 0.4507 ± 2.327e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

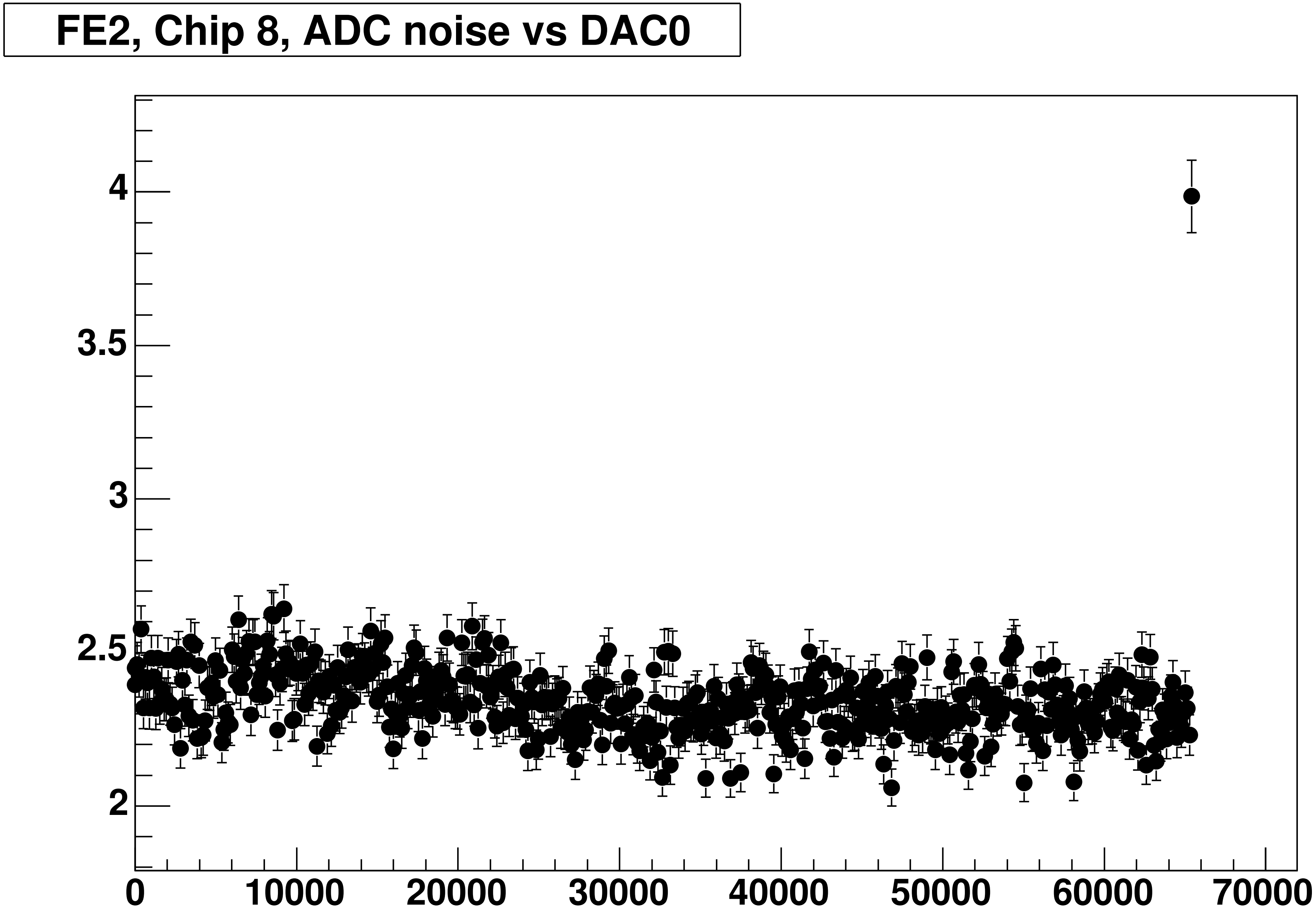

FE2, Chip 7, ADC noise vs DAC1
10
9
8
7
6
5
4
3
2
1
0
10000
20000
30000
40000
50000
60000
70000

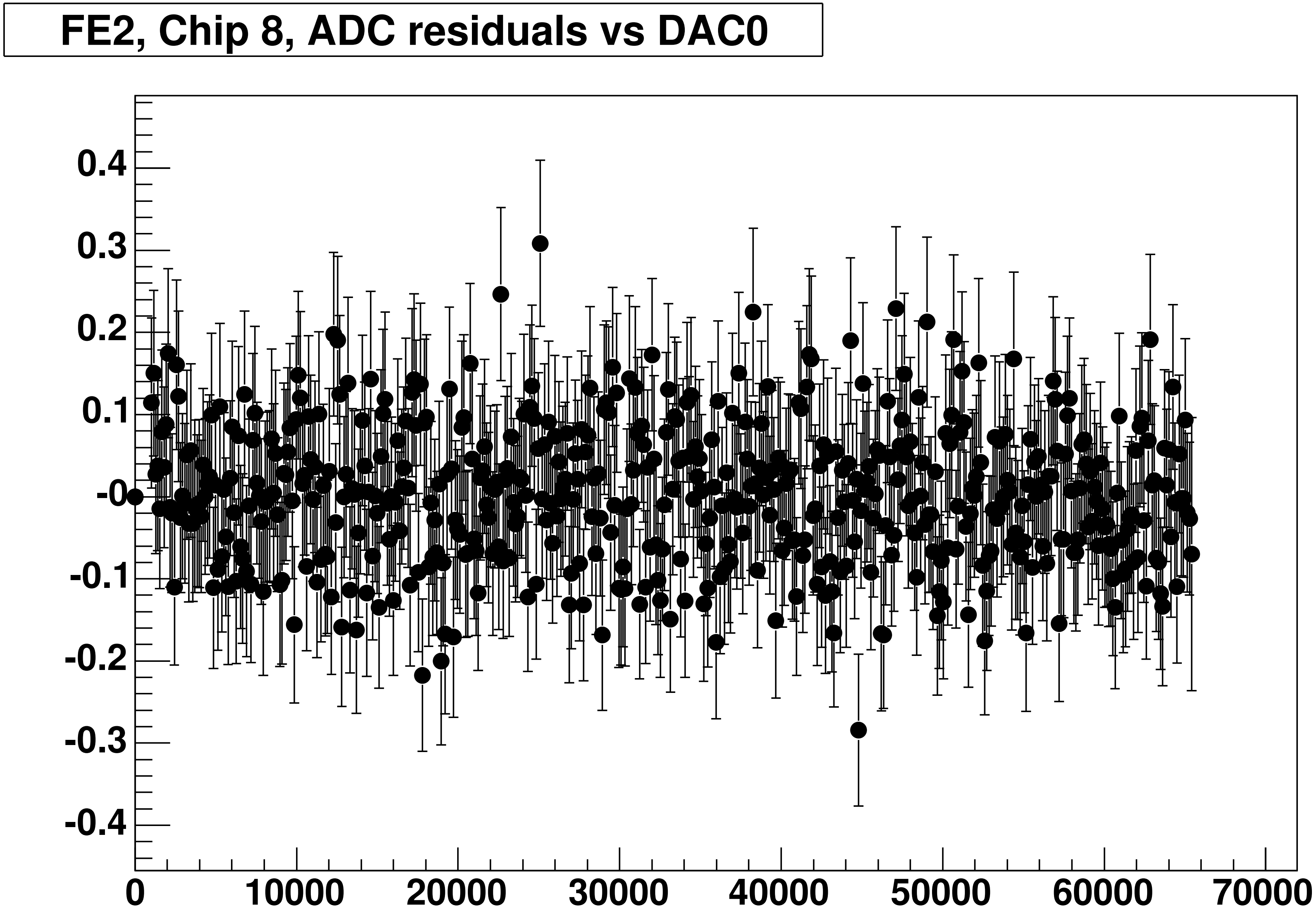


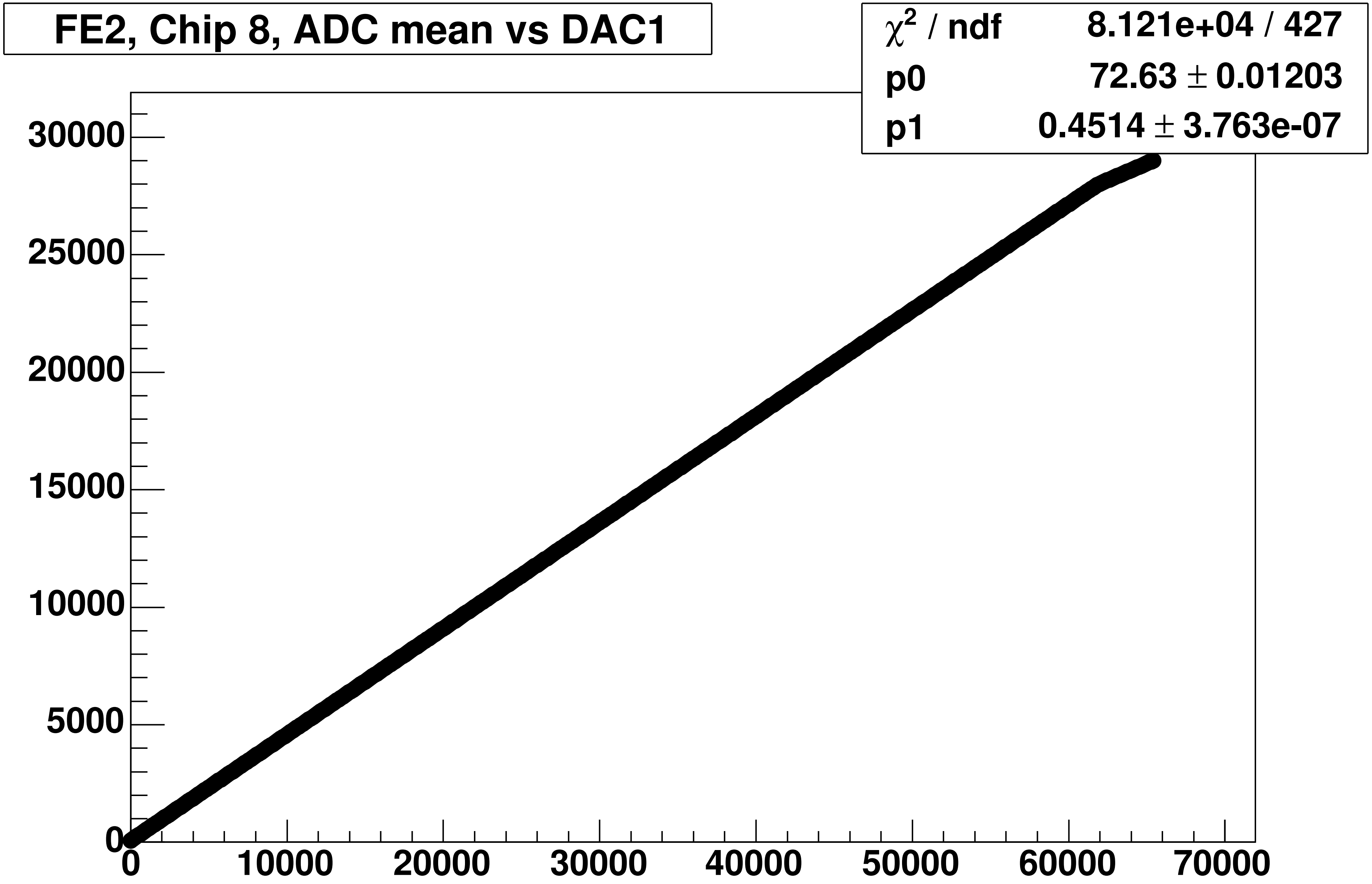
FE2, Chip 7, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000



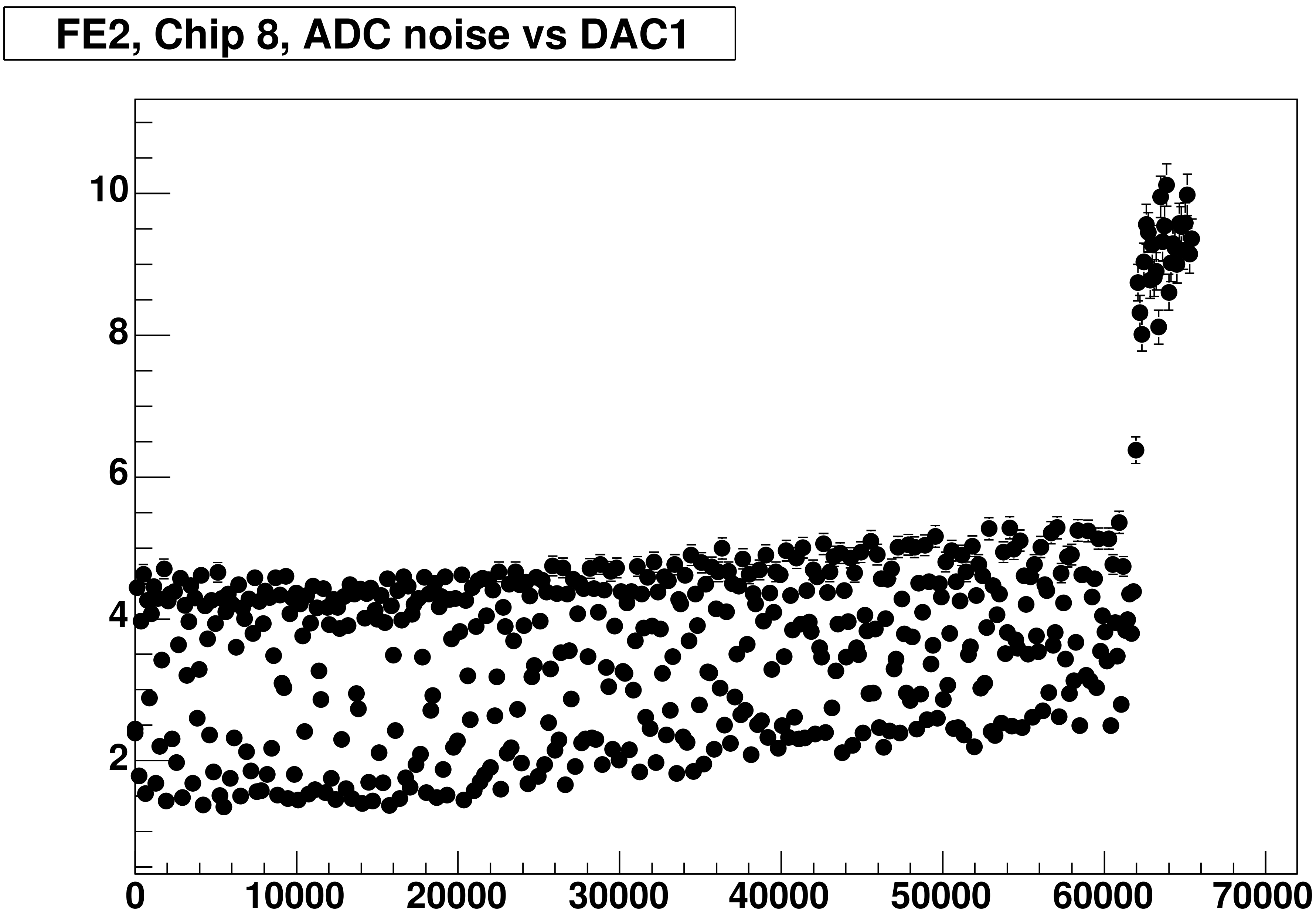
FE2, Chip 8, ADC mean vs DAC0
$\chi^2$ / ndf 344.4 / 427
p0 73.54 ± 0.01091
p1 2.975e-07 ± 2.983e-07
74
73.9
73.8
73.7
73.6
73.5
73.4
73.3
73.2
73.1
0
10000
20000
30000
40000
50000
60000
70000

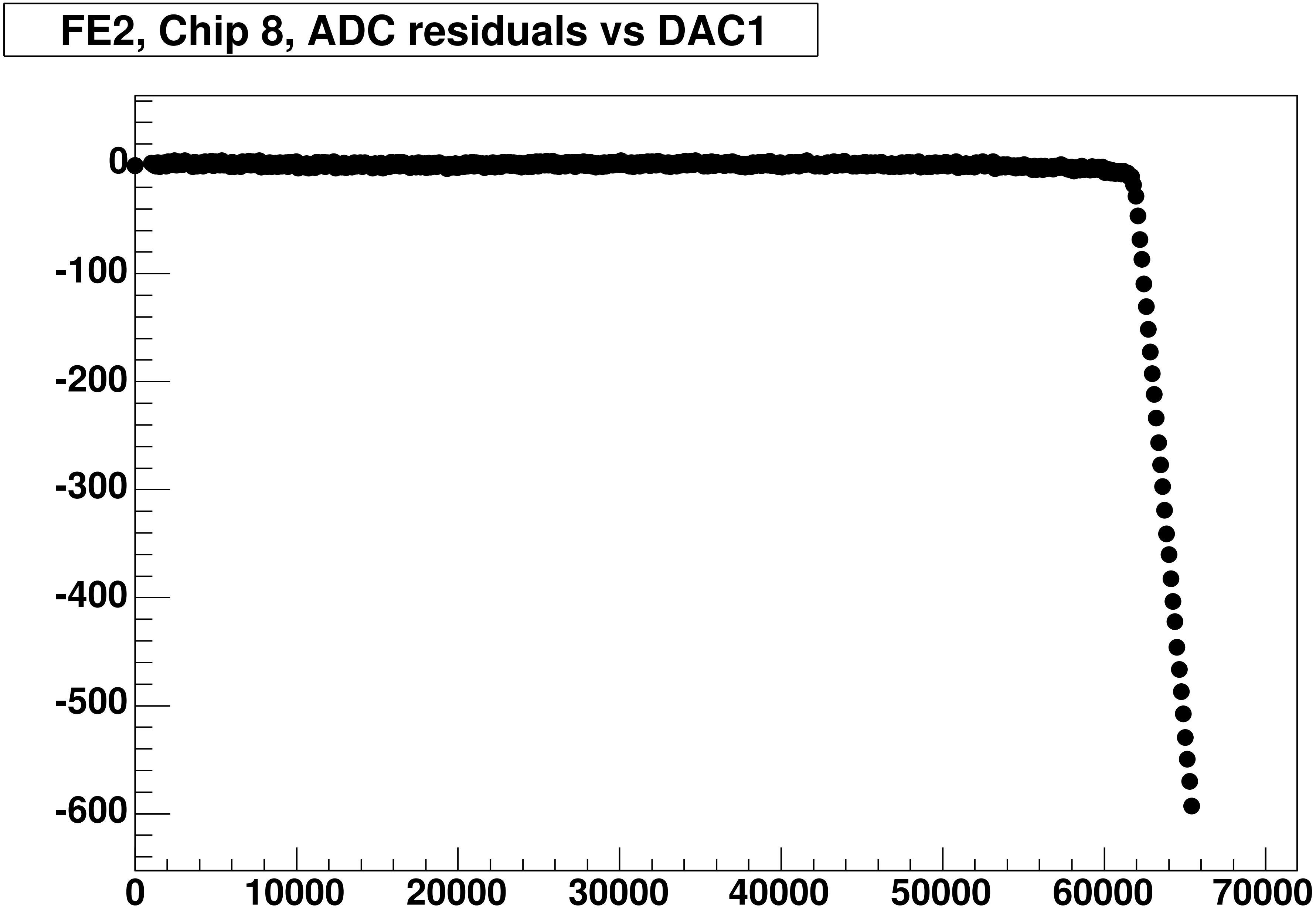

FE2, Chip 8, ADC noise vs DAC0
4
3.5
3
2.5
2
0
10000
20000
30000
40000
50000
60000
70000

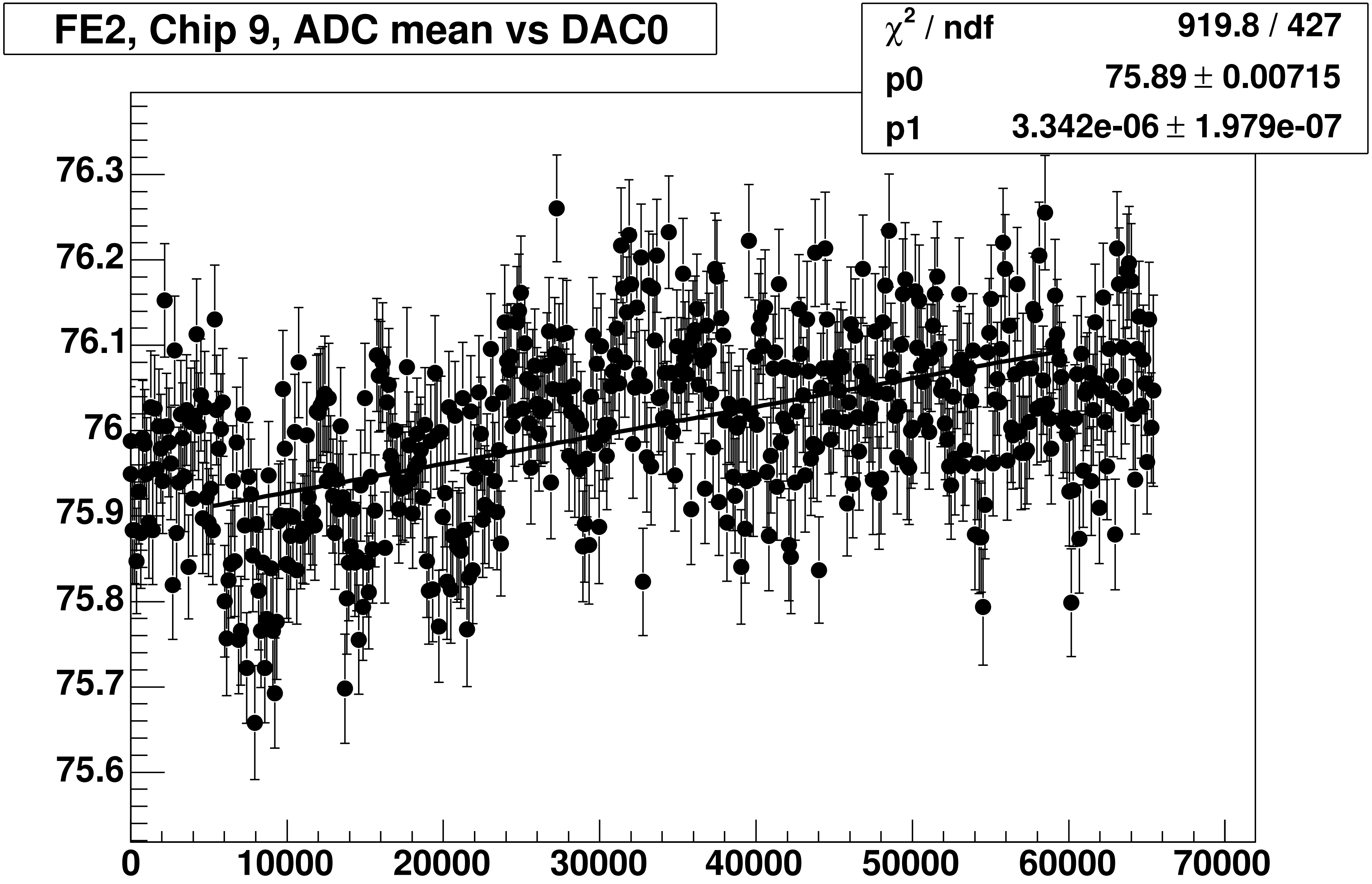

FE2, Chip 8, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000
70000



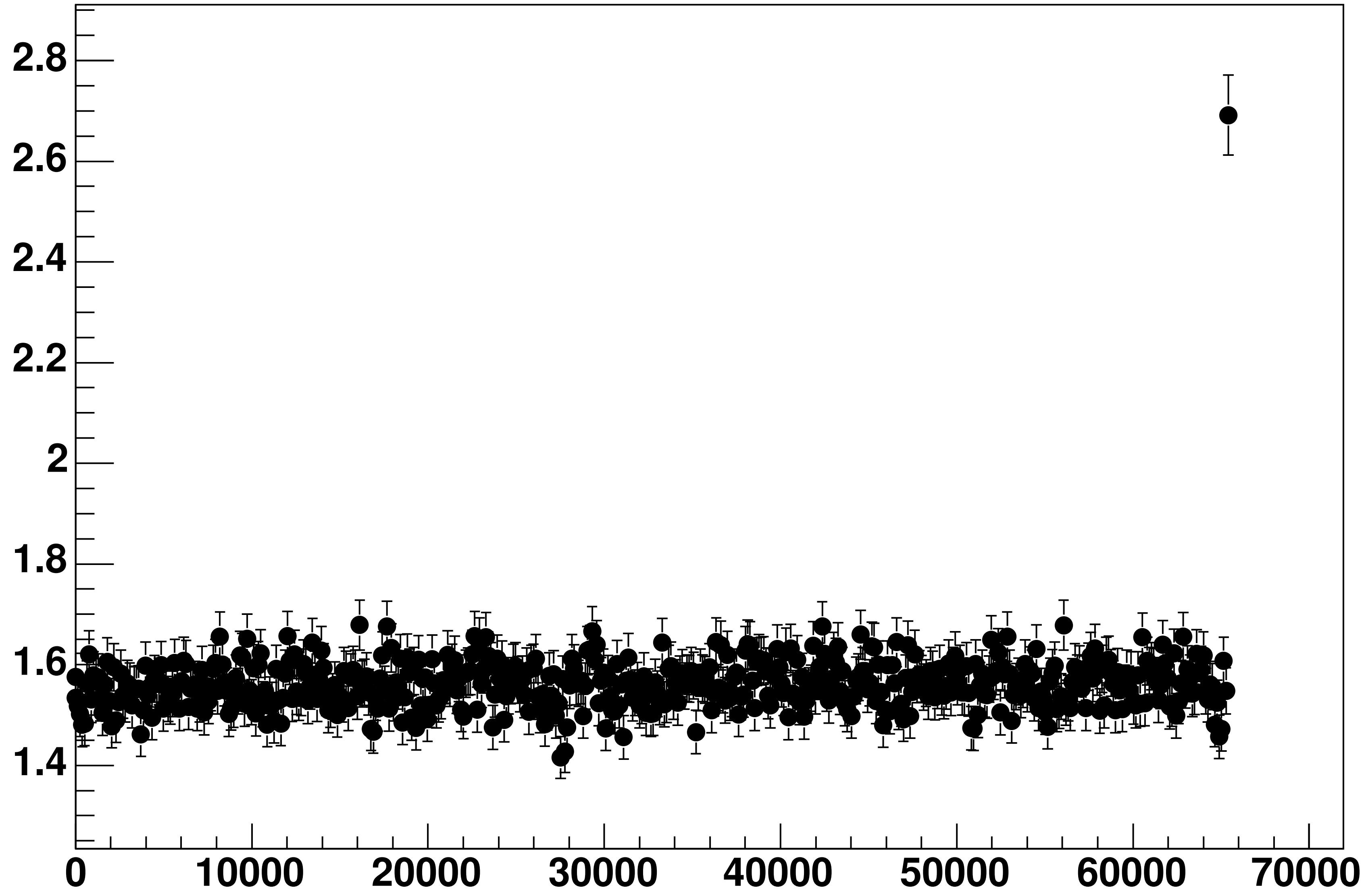
FE2, Chip 8, ADC mean vs DAC1
χ² / ndf 8.121e+04 / 427
p0 72.63 ± 0.01203
p1 0.4514 ± 3.763e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

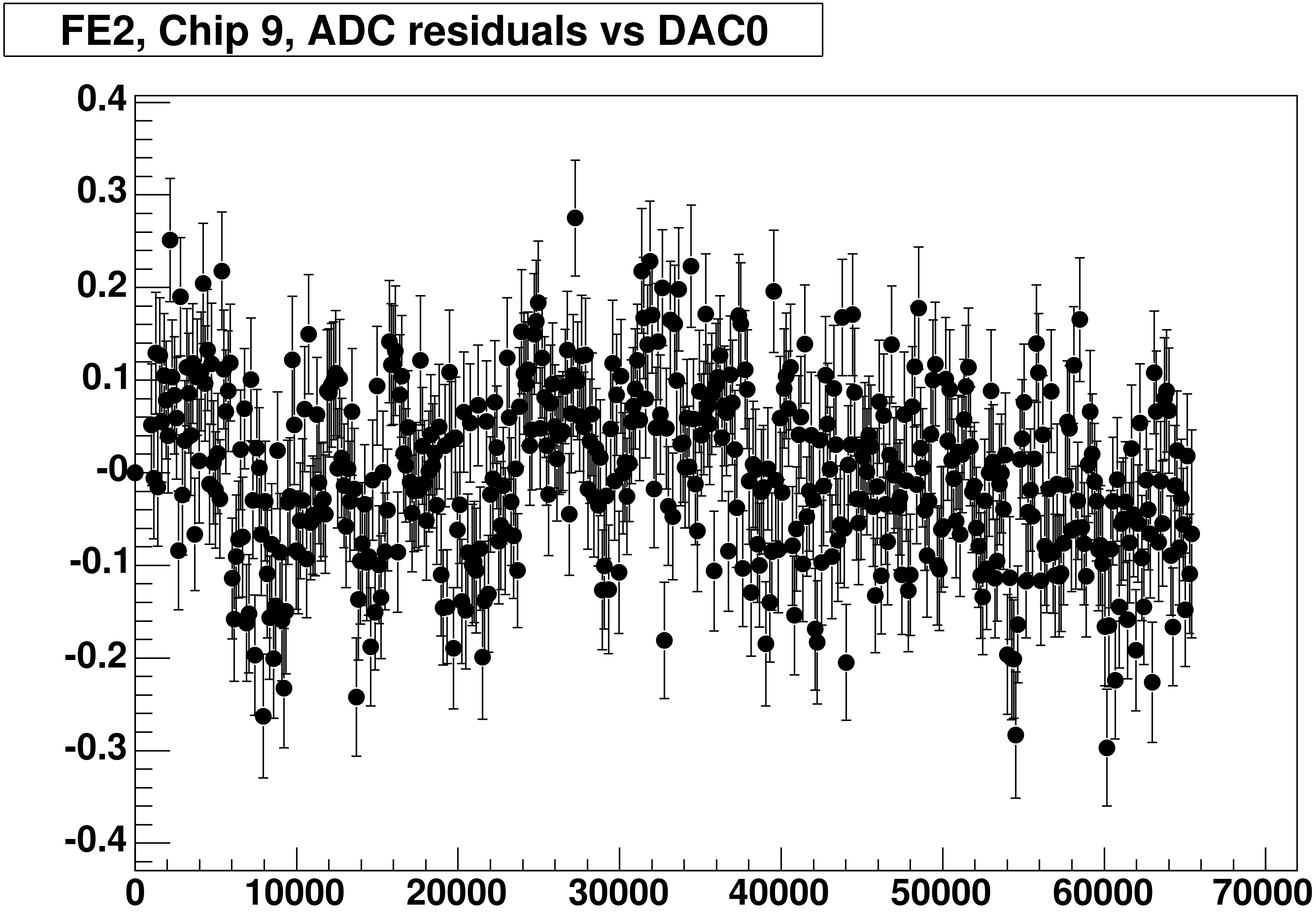

FE2, Chip 8, ADC noise vs DAC1
2
4
6
8
10
0
10000
20000
30000
40000
50000
60000
70000


FE2, Chip 8, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

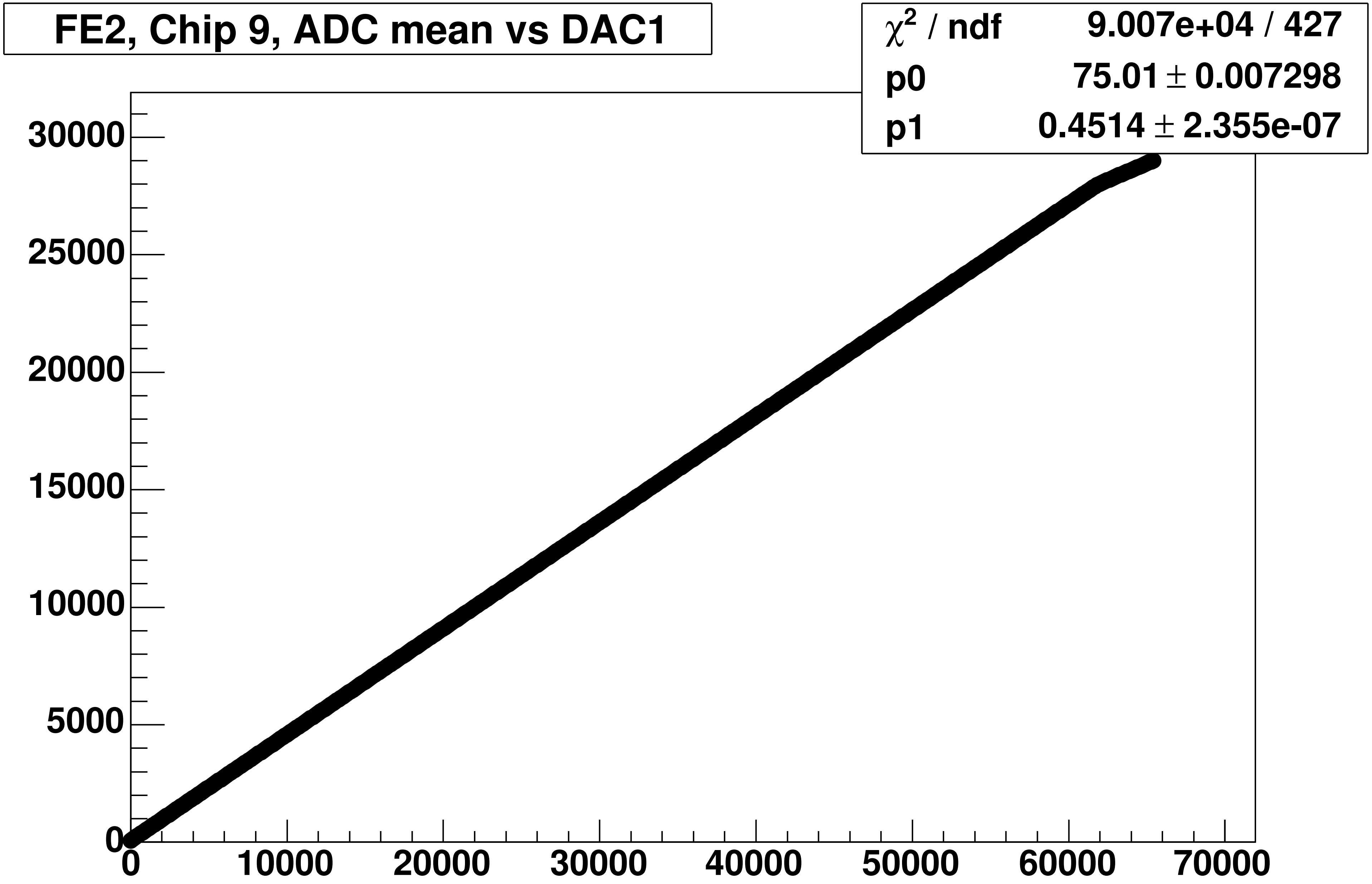

FE2, Chip 9, ADC mean vs DAC0
$\chi^2$ / ndf 919.8 / 427
p0 75.89 ± 0.00715
p1 3.342e-06 ± 1.979e-07
76.3
76.2
76.1
76
75.9
75.8
75.7
75.6
0
10000
20000
30000
40000
50000
60000
70000

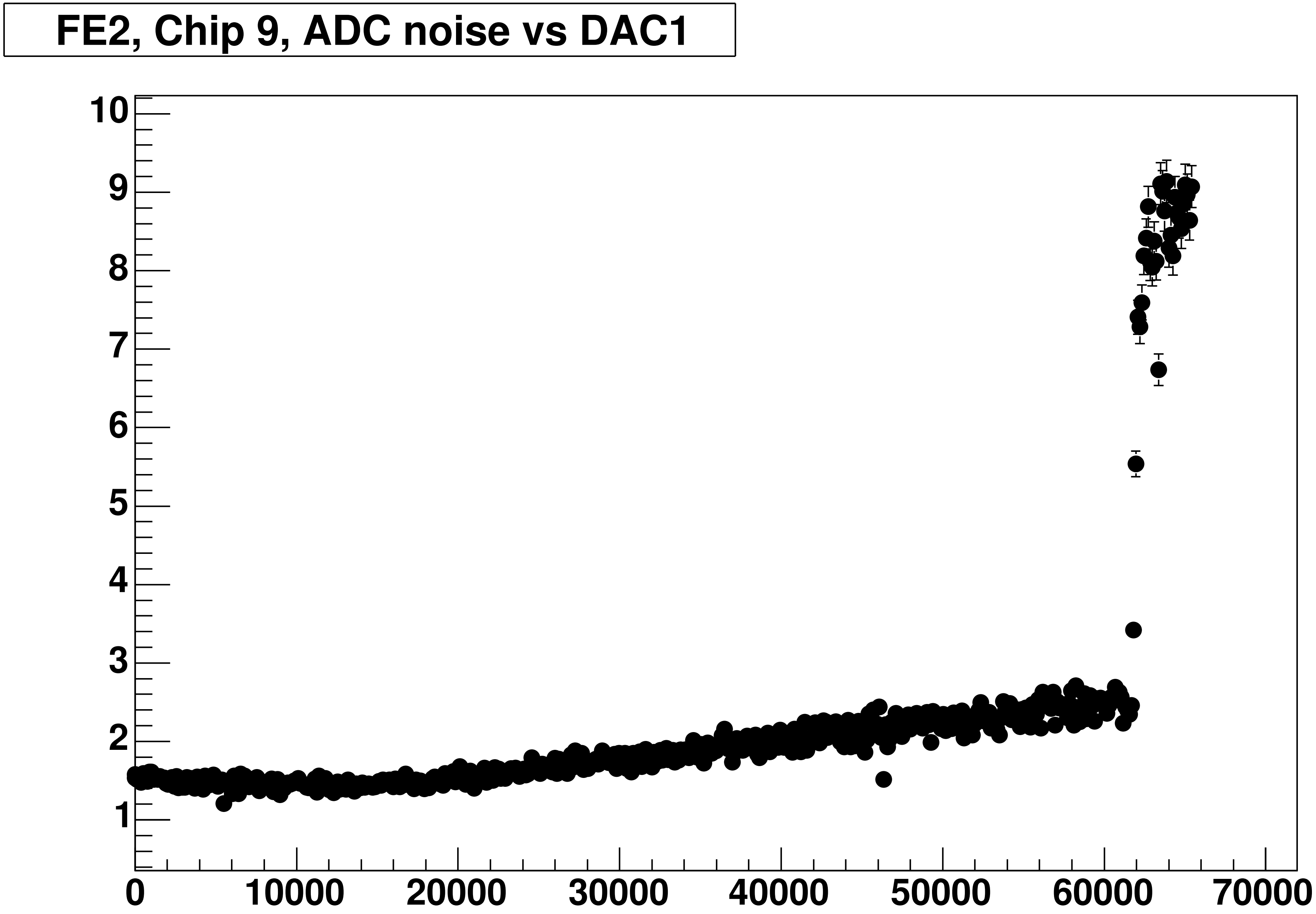
FE2, Chip 9, ADC noise vs DAC0

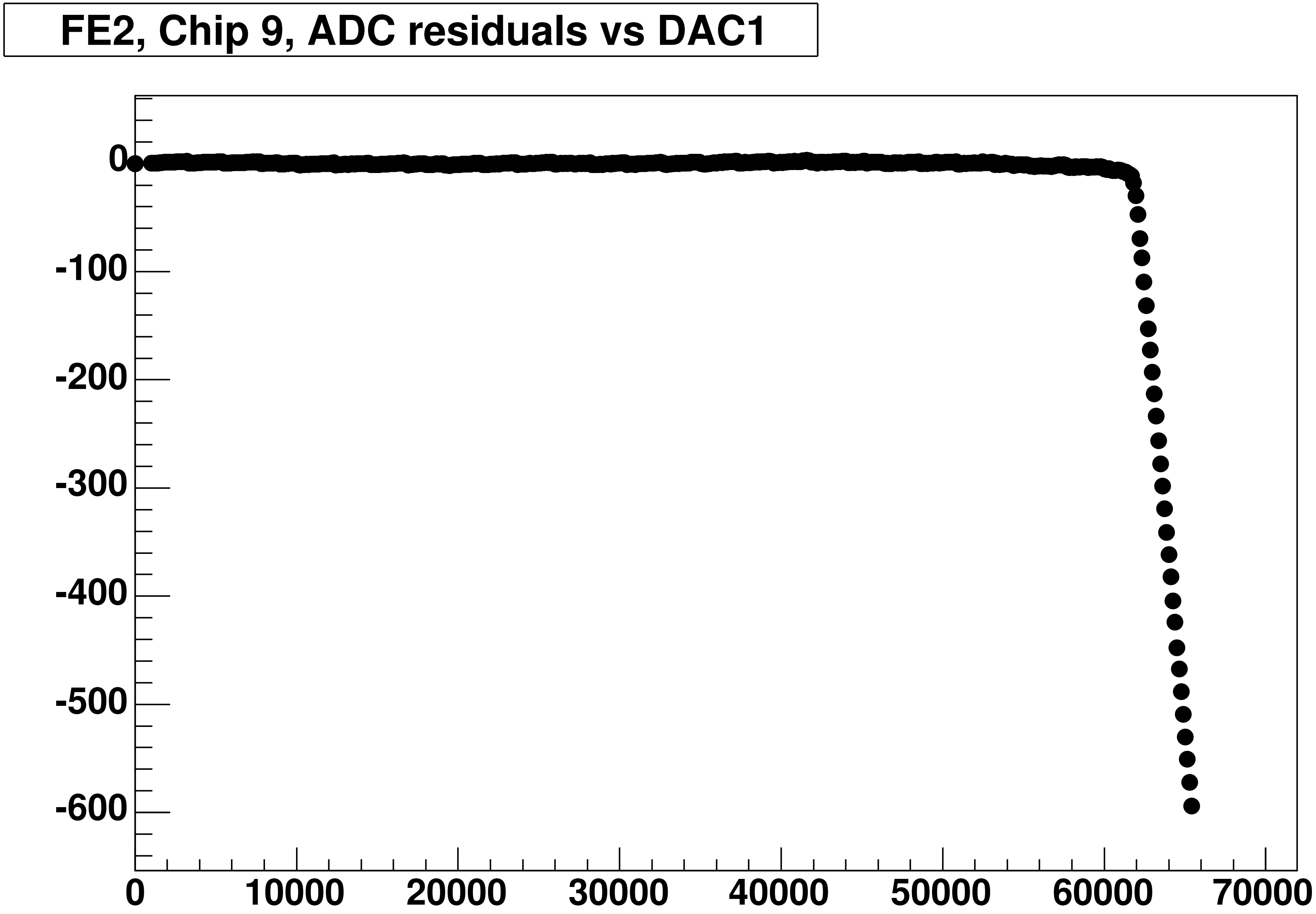


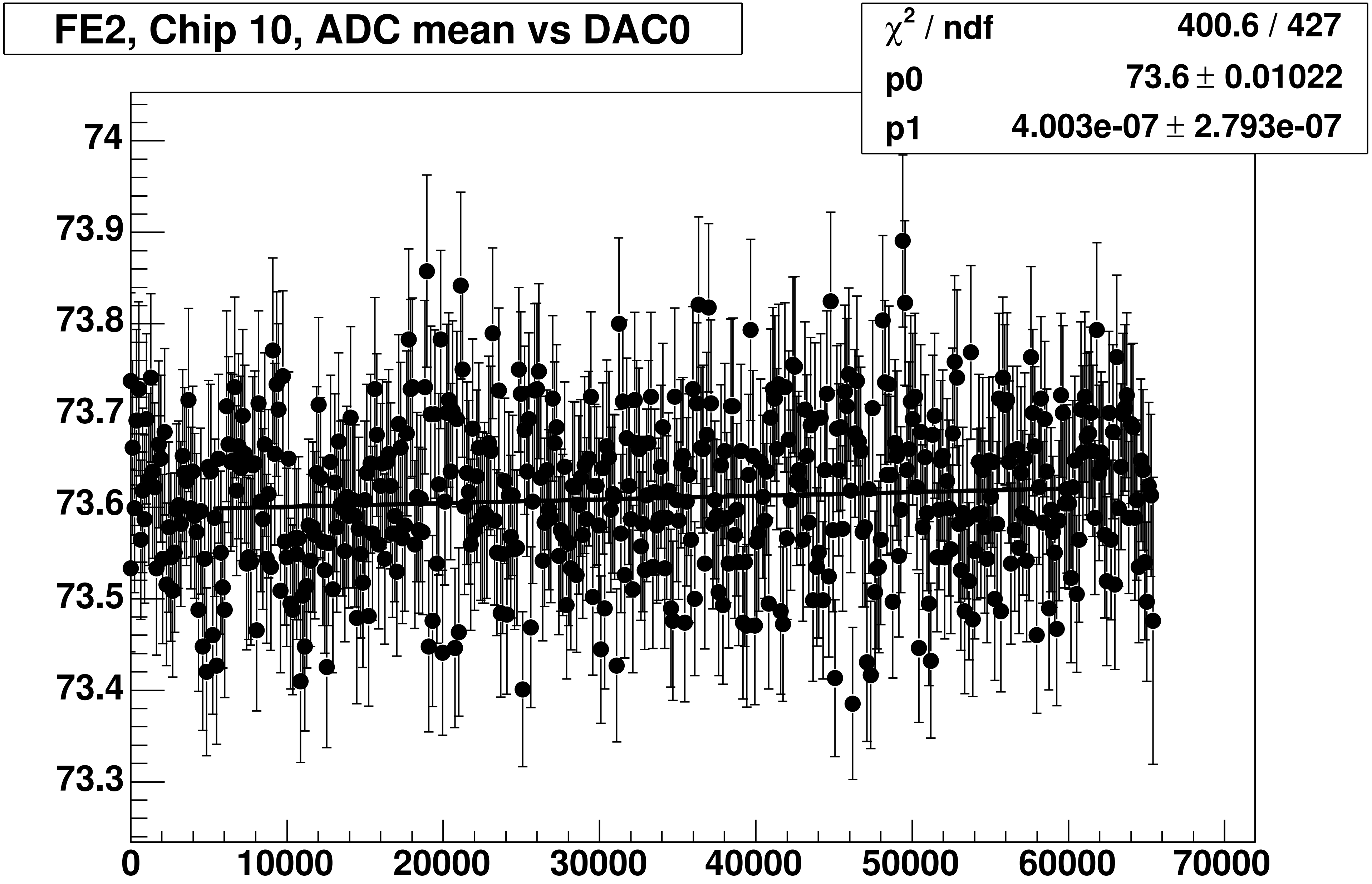


FE2, Chip 9, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000
70000

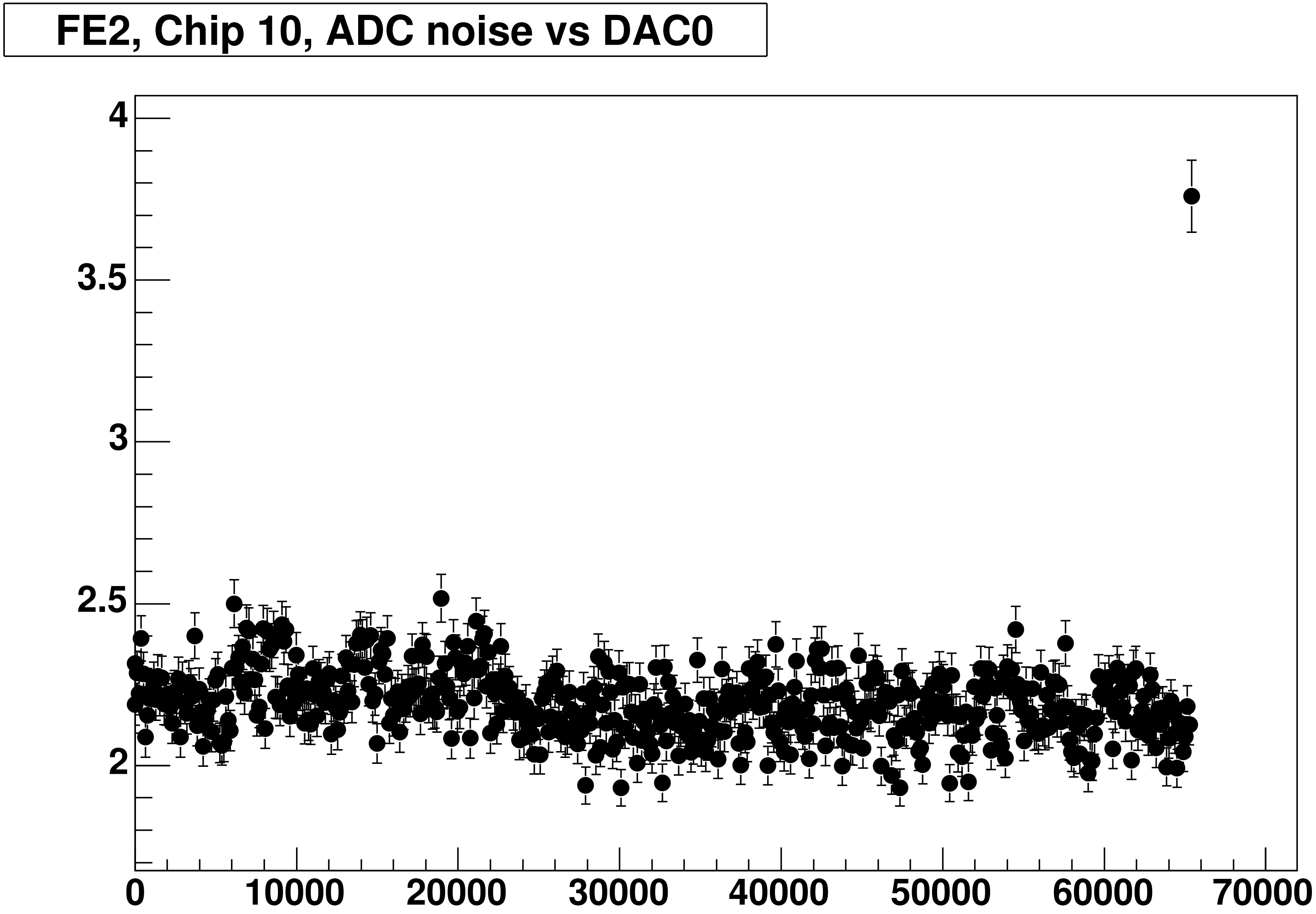

FE2, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 9.007e+04 / 427
p0 75.01 ± 0.007298
p1 0.4514 ± 2.355e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000


FE2, Chip 9, ADC noise vs DAC1
10
9
8
7
6
5
4
3
2
1
0
10000
20000
30000
40000
50000
60000
70000

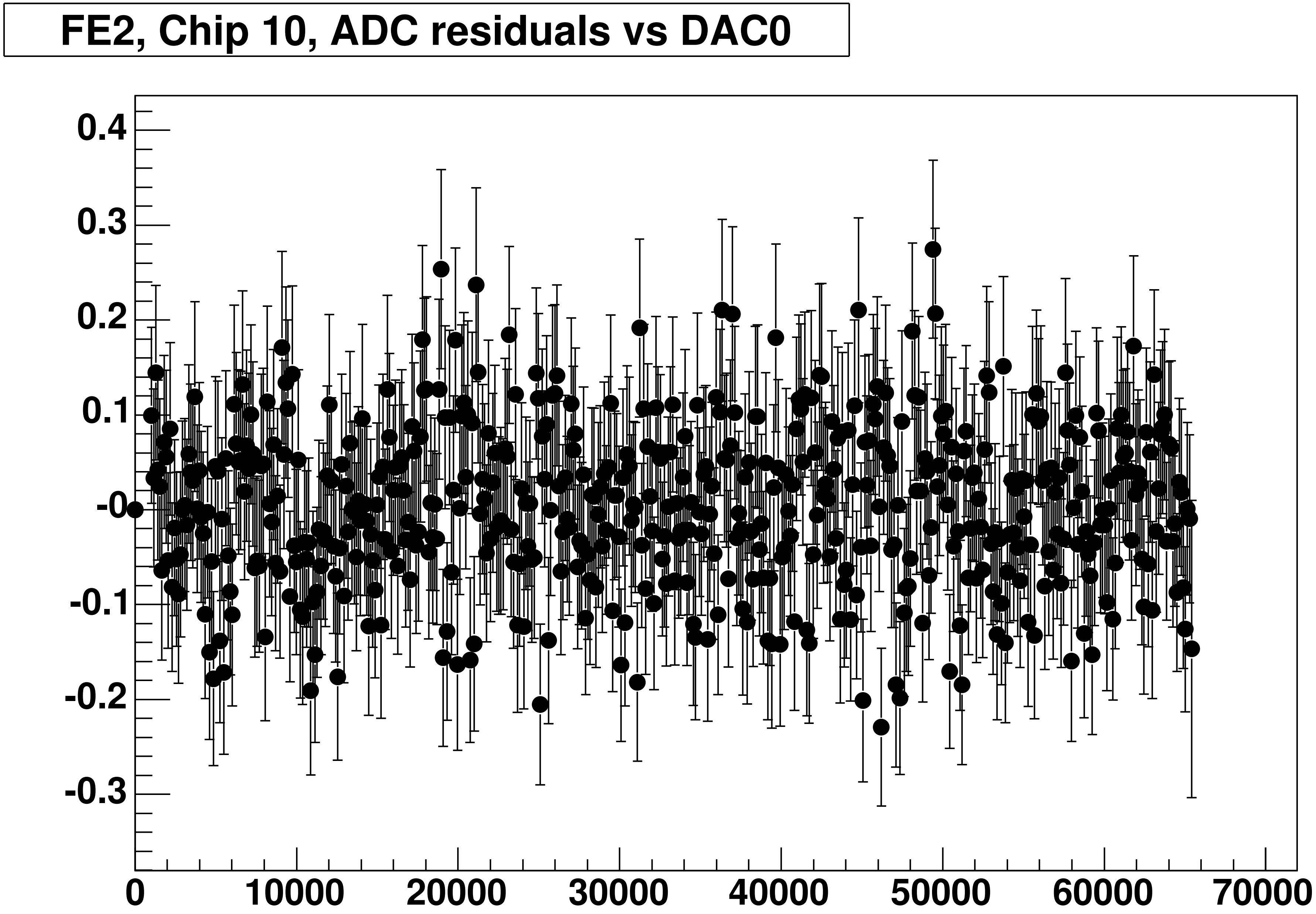

FE2, Chip 9, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

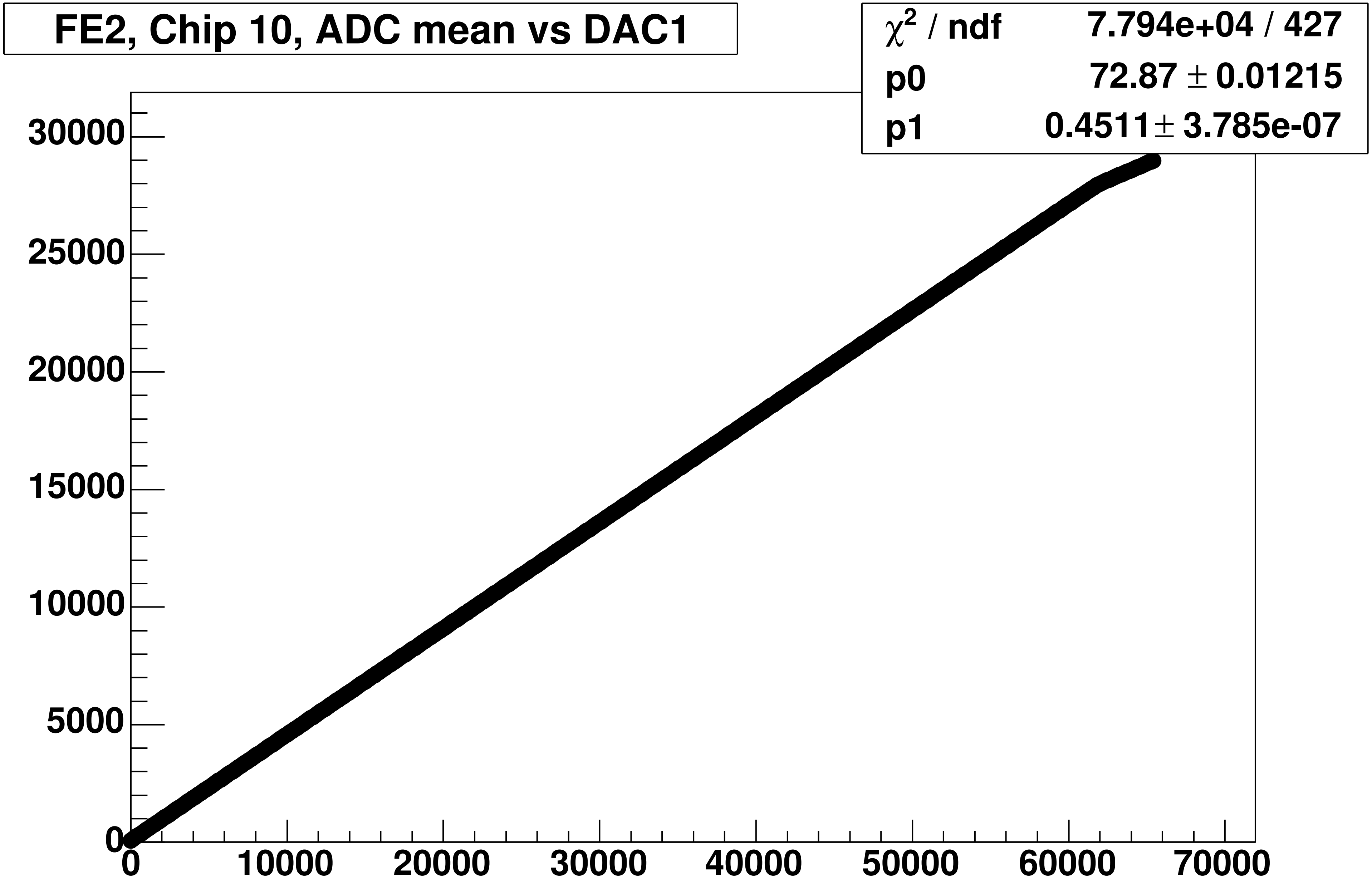


FE2, Chip 10, ADC mean vs DAC0
$\chi^2$ / ndf 400.6 / 427
p0 73.6 ± 0.01022
p1 4.003e-07 ± 2.793e-07
74
73.9
73.8
73.7
73.6
73.5
73.4
73.3
0
10000
20000
30000
40000
50000
60000
70000

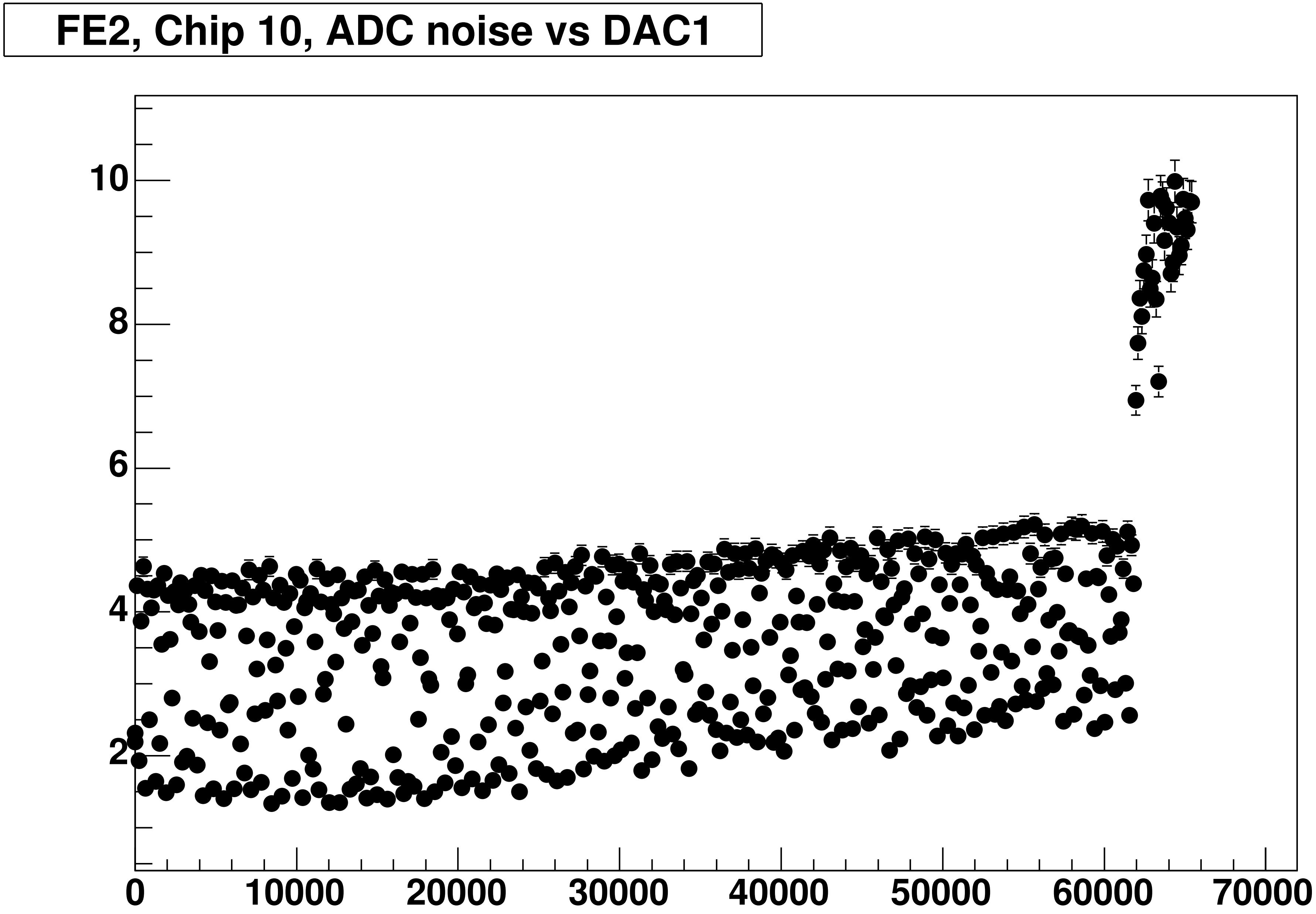


FE2, Chip 10, ADC noise vs DAC0
4
3.5
3
2.5
2
0
10000
20000
30000
40000
50000
60000
70000

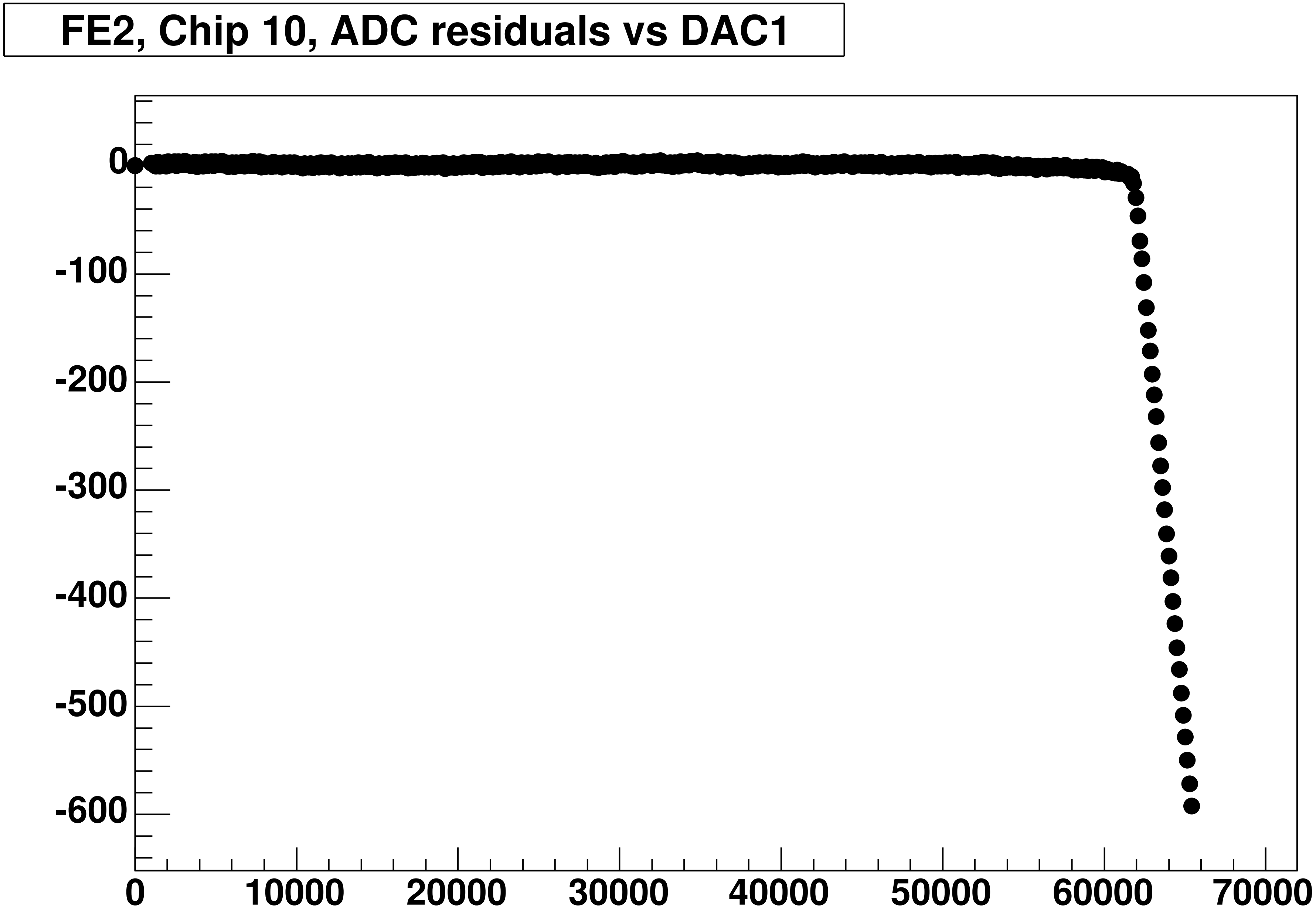

FE2, Chip 10, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
10000
20000
30000
40000
50000
60000
70000



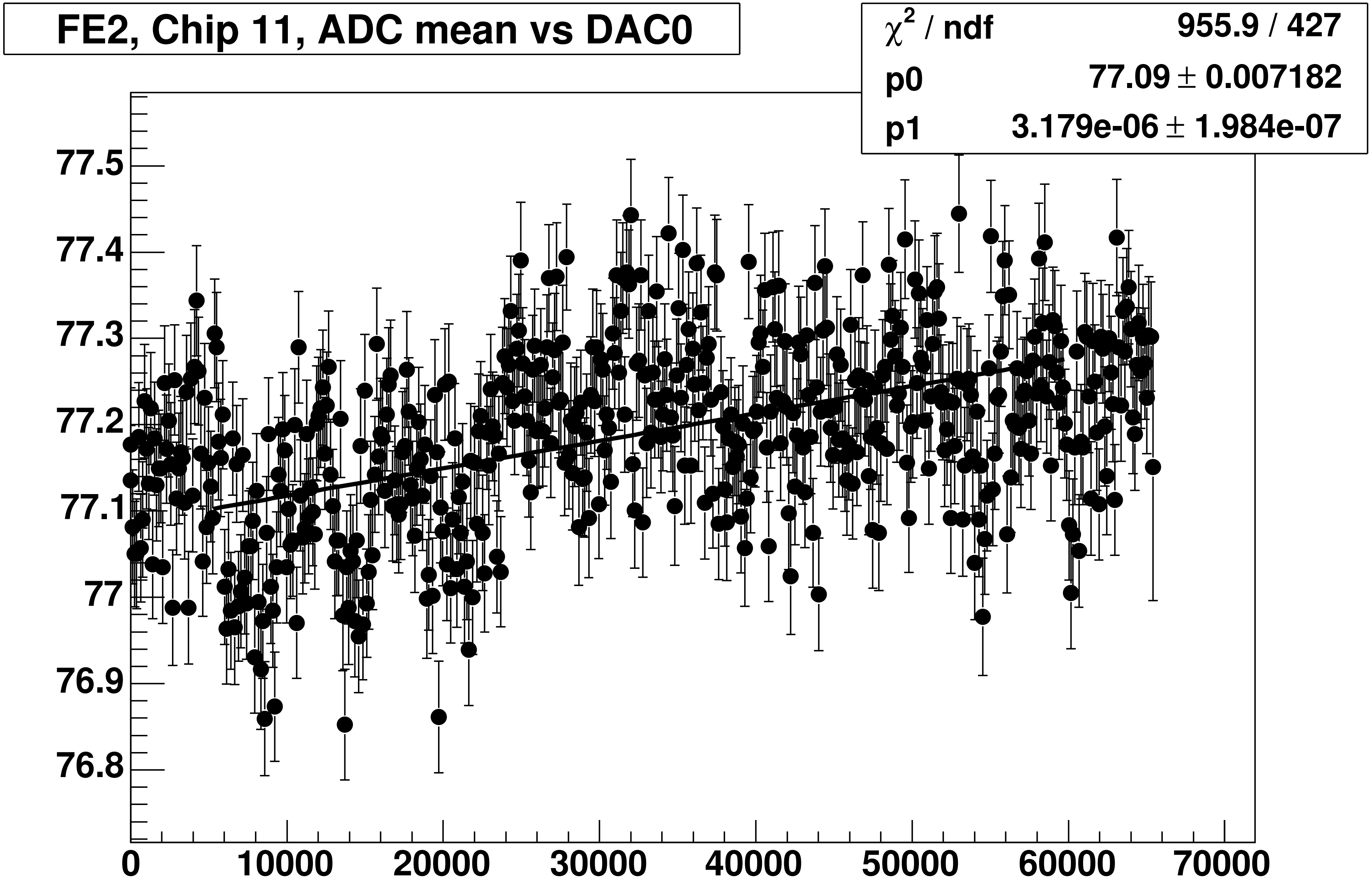
FE2, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 7.794e+04 / 427
p0 72.87 ± 0.01215
p1 0.4511 ± 3.785e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000



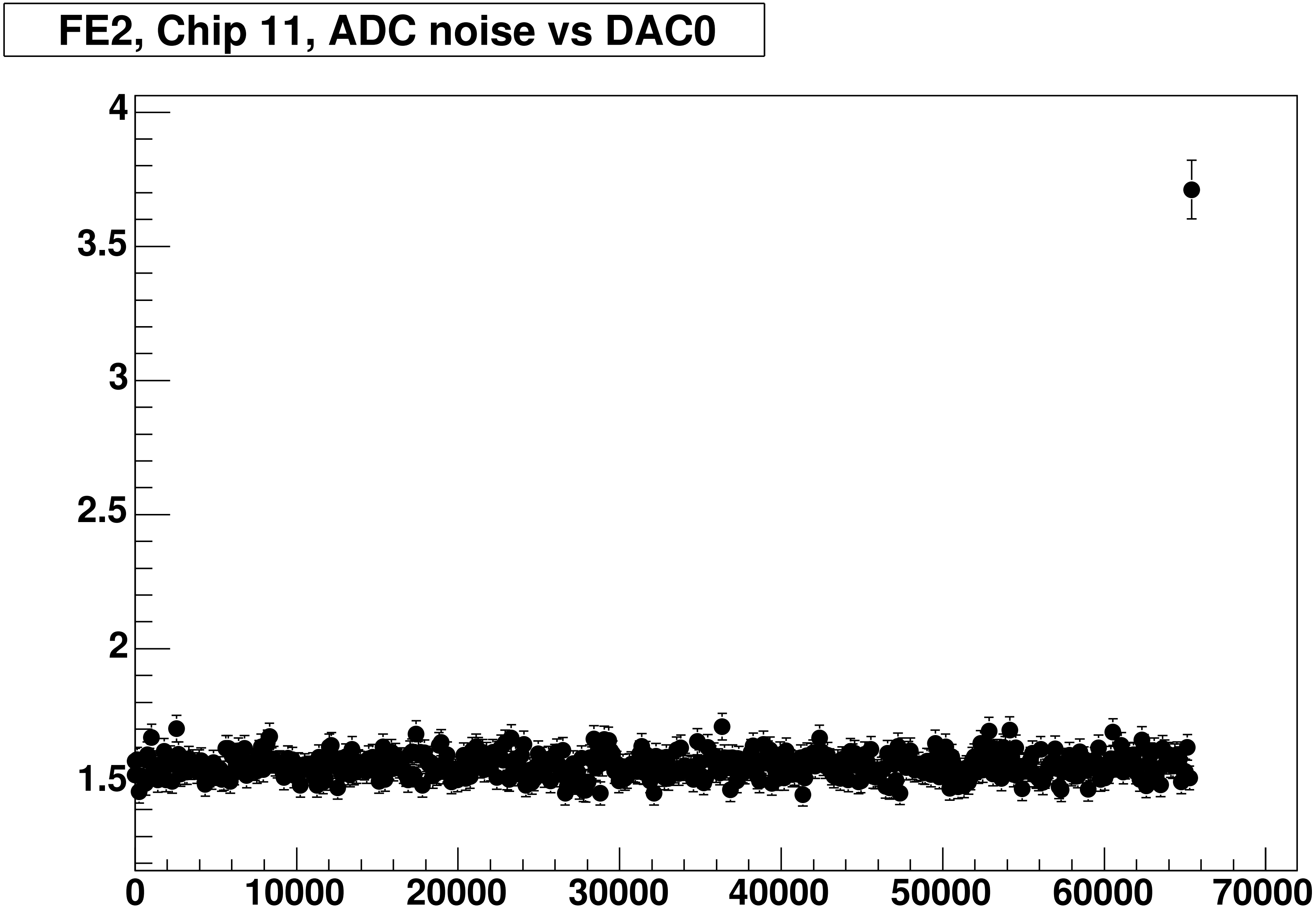
FE2, Chip 10, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000

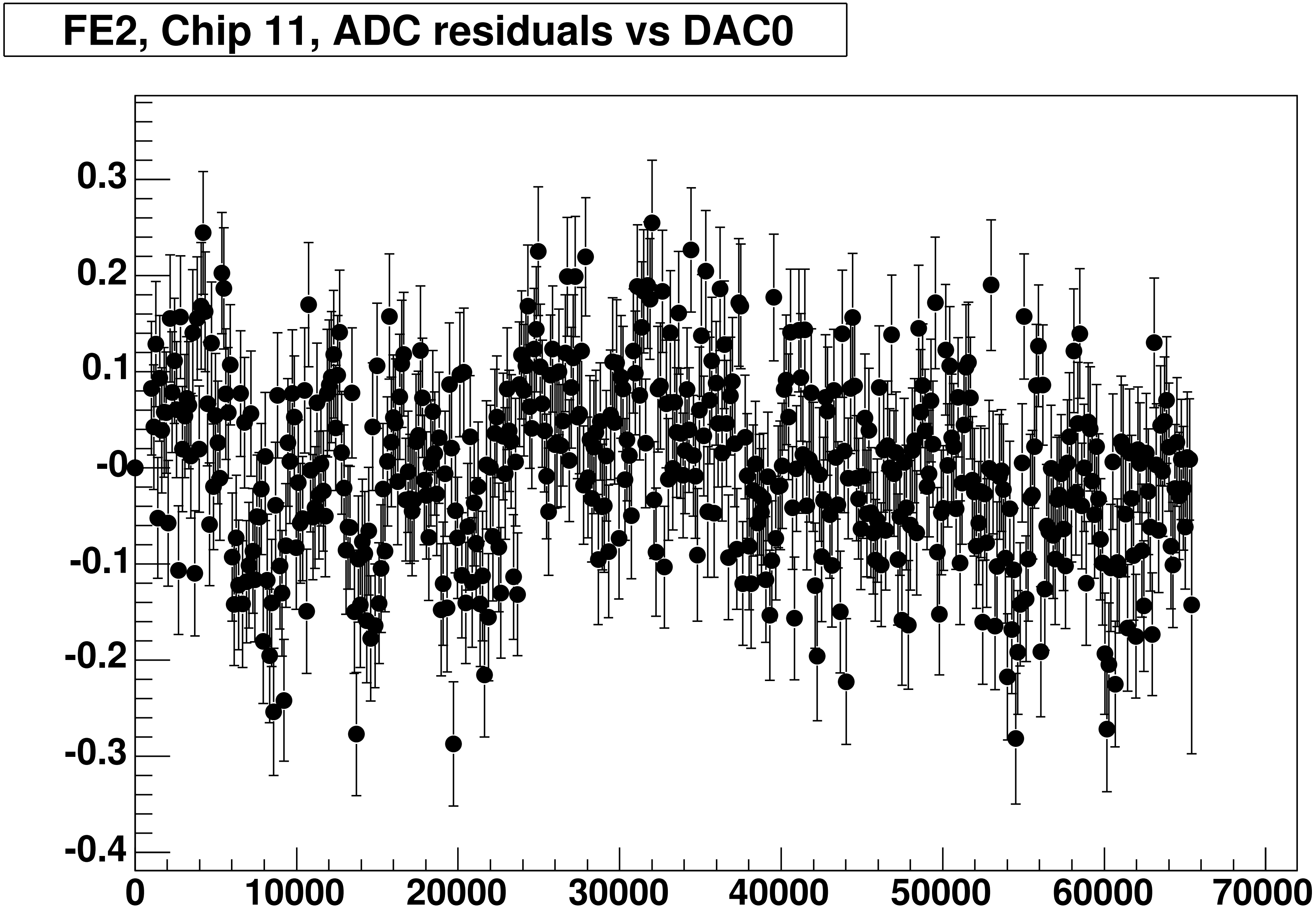


FE2, Chip 10, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

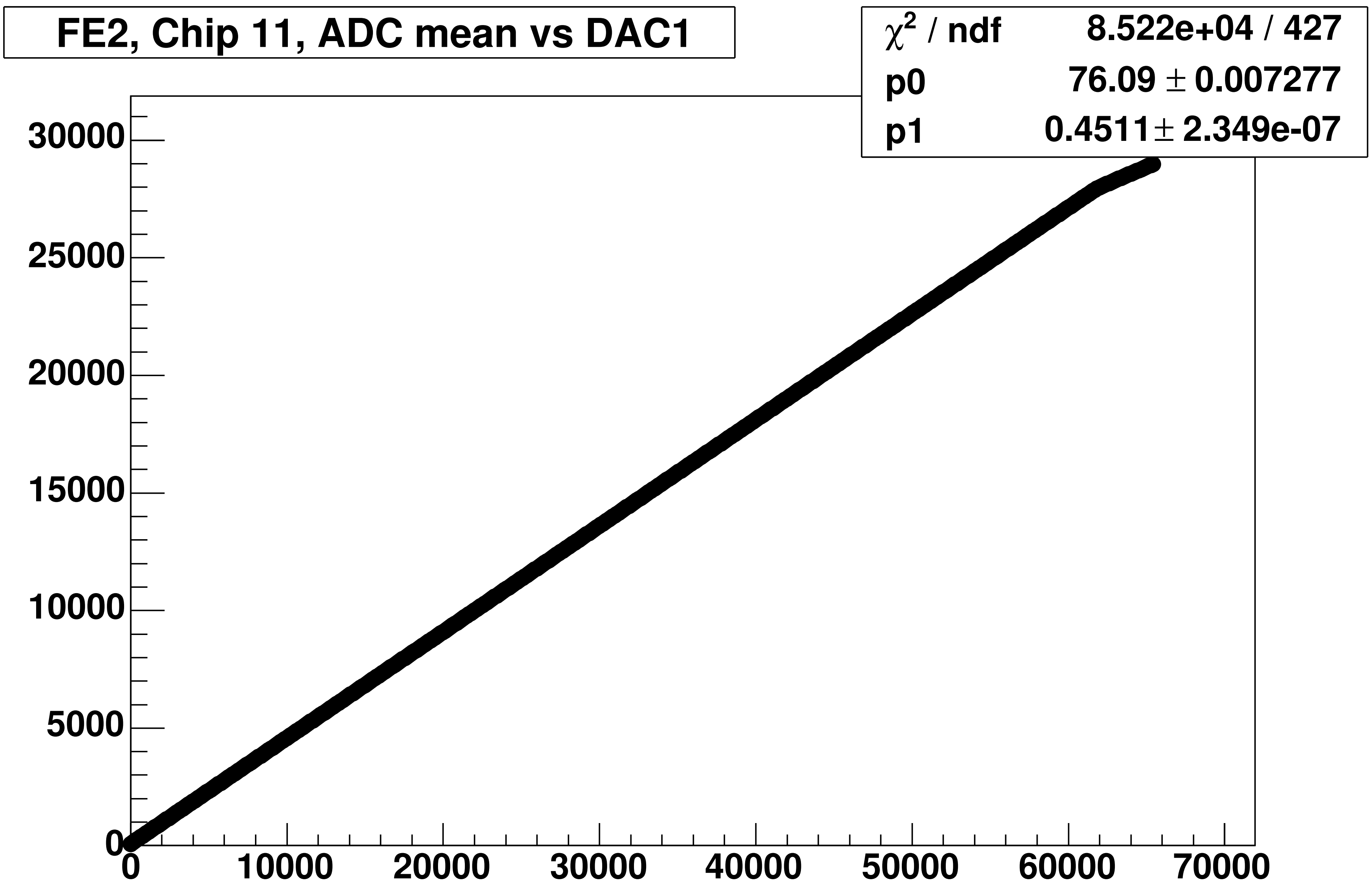


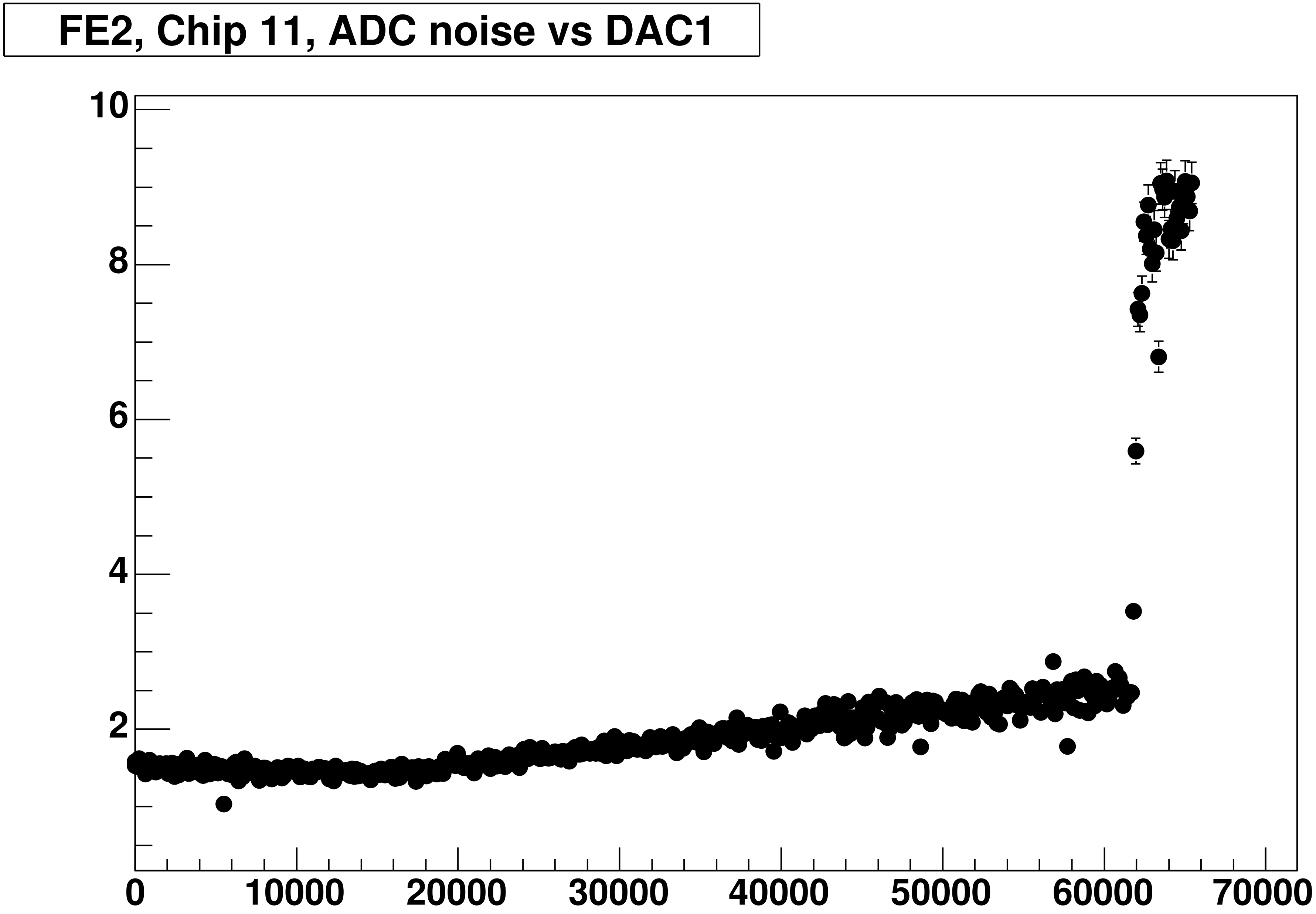
FE2, Chip 11, ADC mean vs DAC0
$\chi^2$ / ndf 955.9 / 427
p0 77.09 ± 0.007182
p1 3.179e-06 ± 1.984e-07
77.5
77.4
77.3
77.2
77.1
77
76.9
76.8
0
10000
20000
30000
40000
50000
60000
70000


FE2, Chip 11, ADC noise vs DAC0
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000
70000

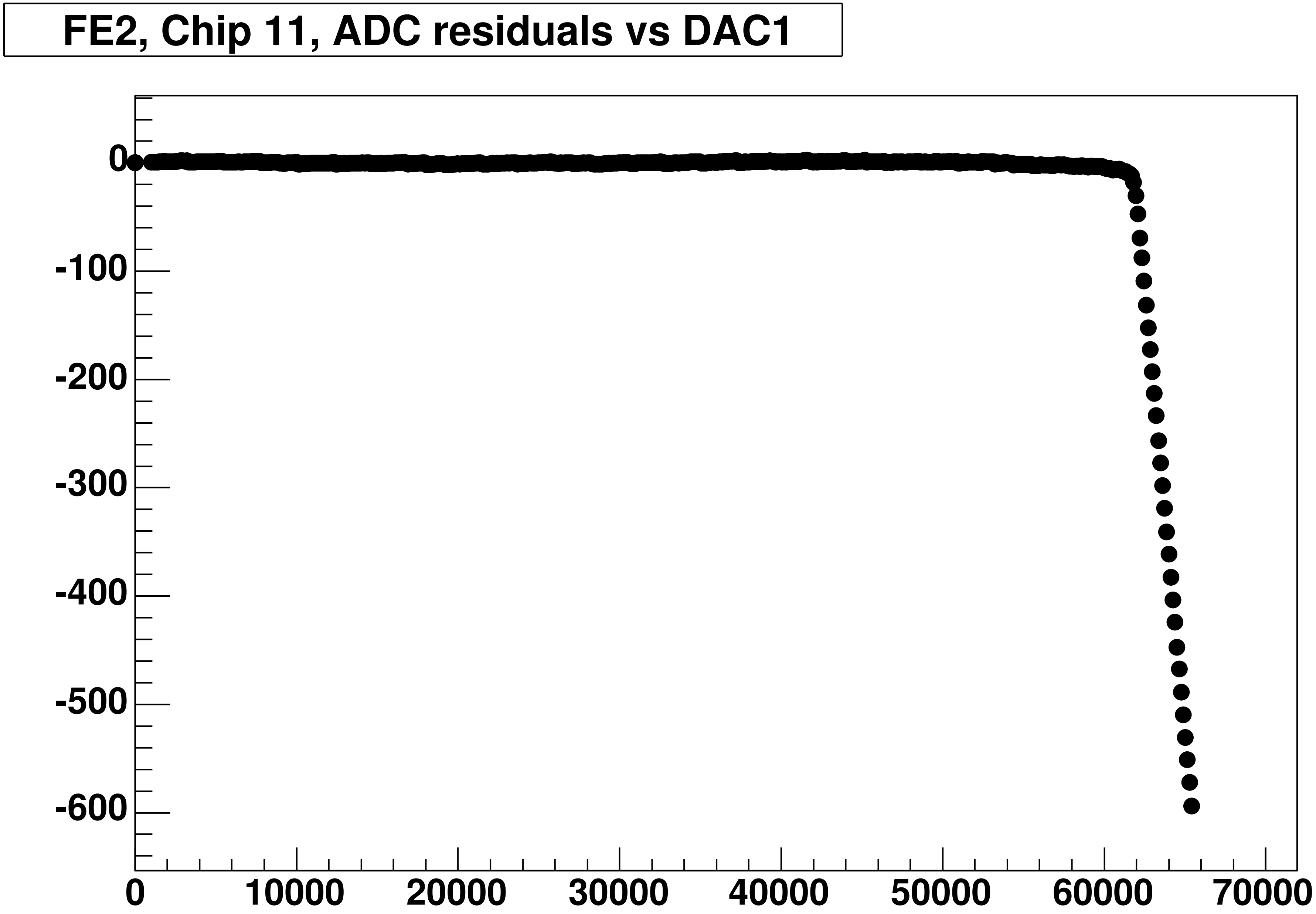


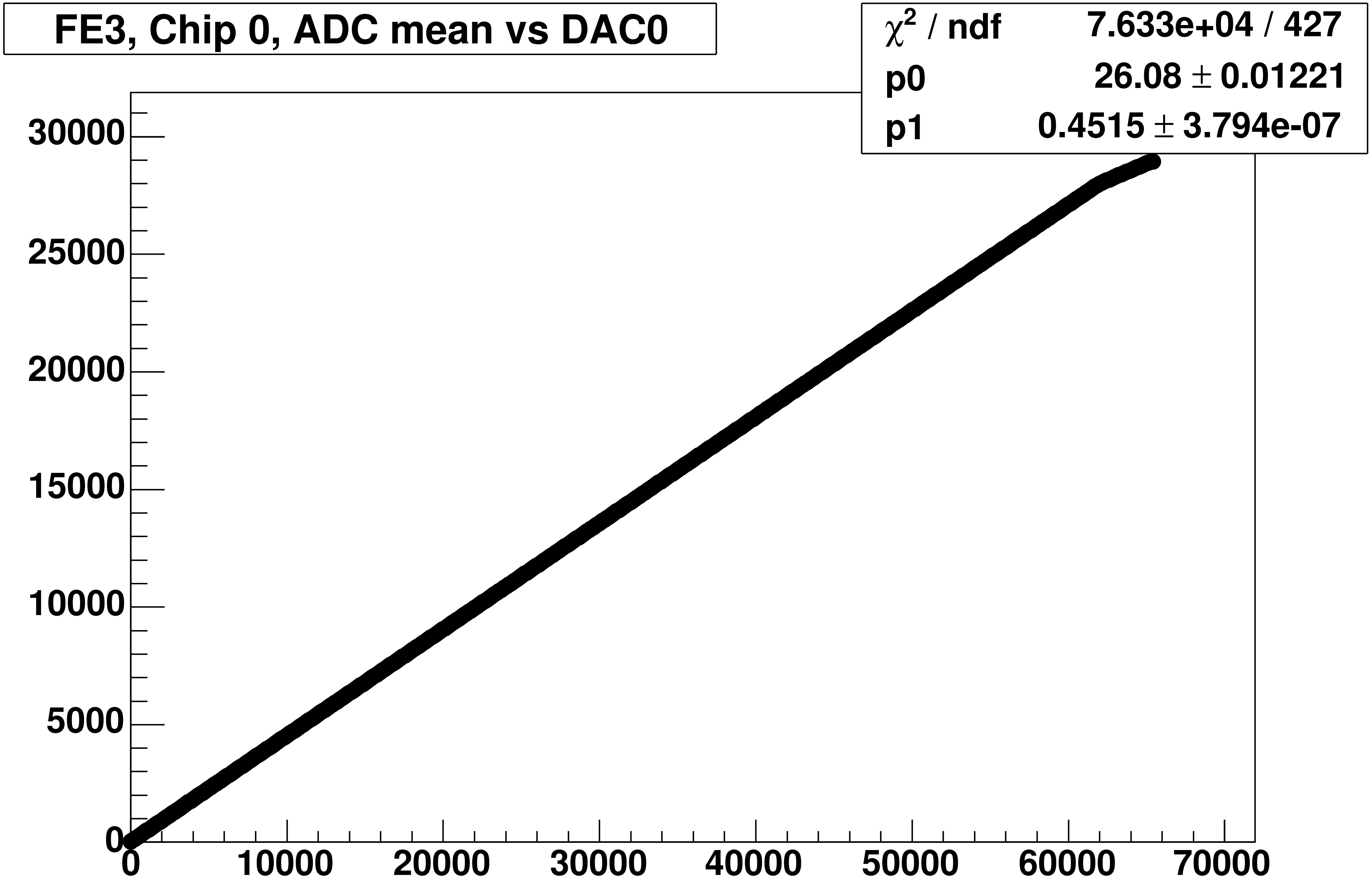
FE2, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000
70000

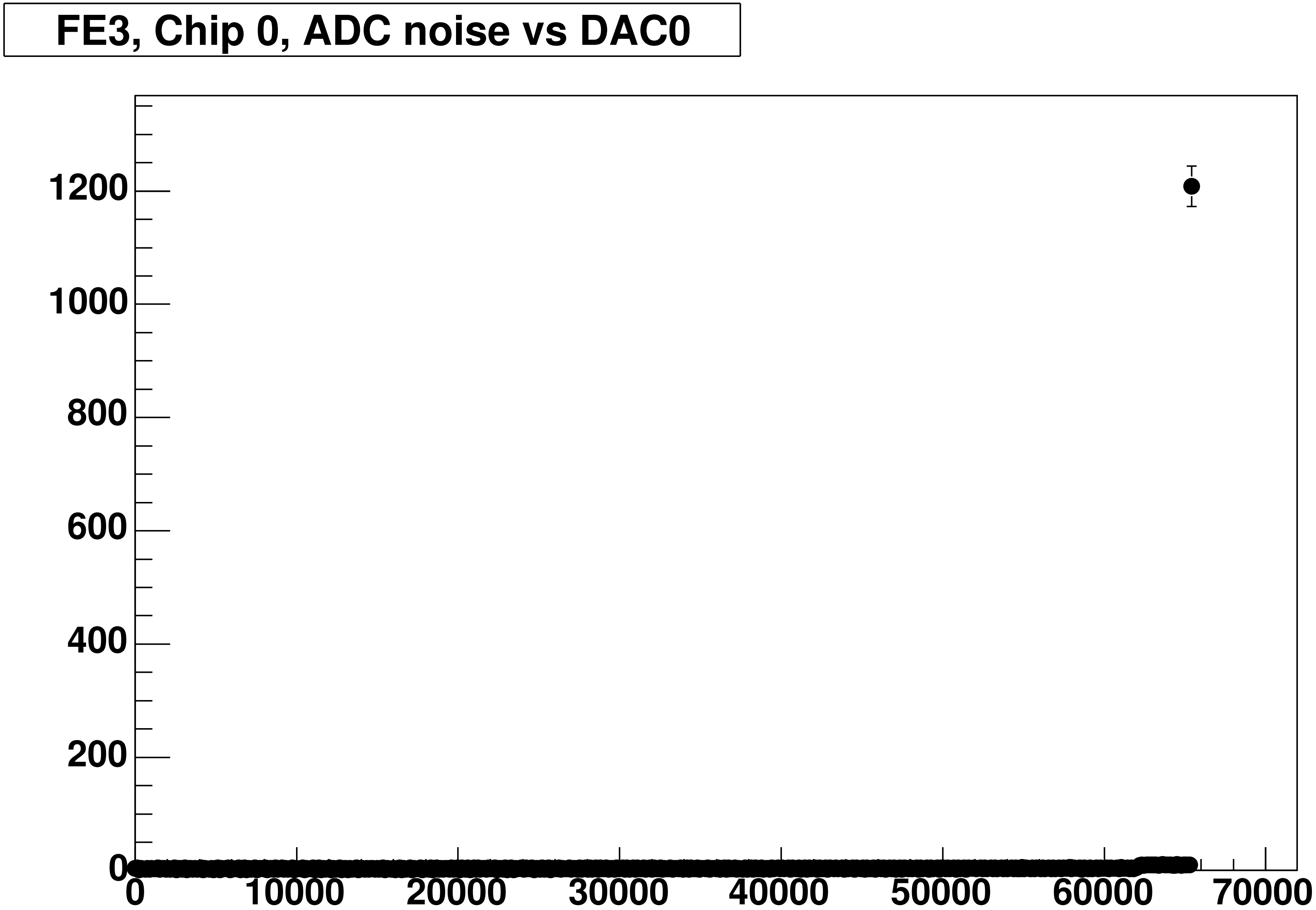

FE2, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 8.522e+04 / 427
p0 76.09 ± 0.007277
p1 0.4511 ± 2.349e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000



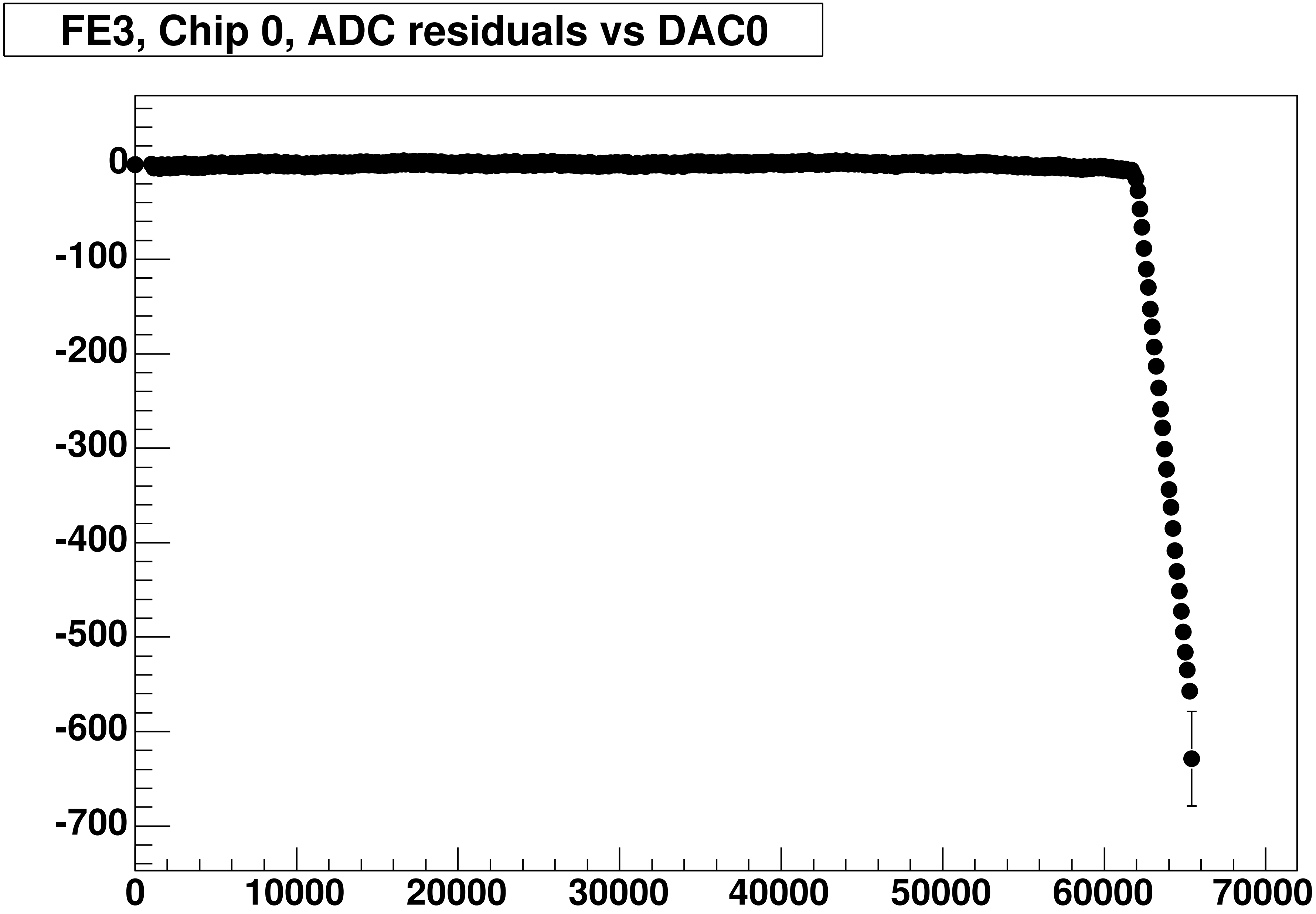
FE2, Chip 11, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000


FE2, Chip 11, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

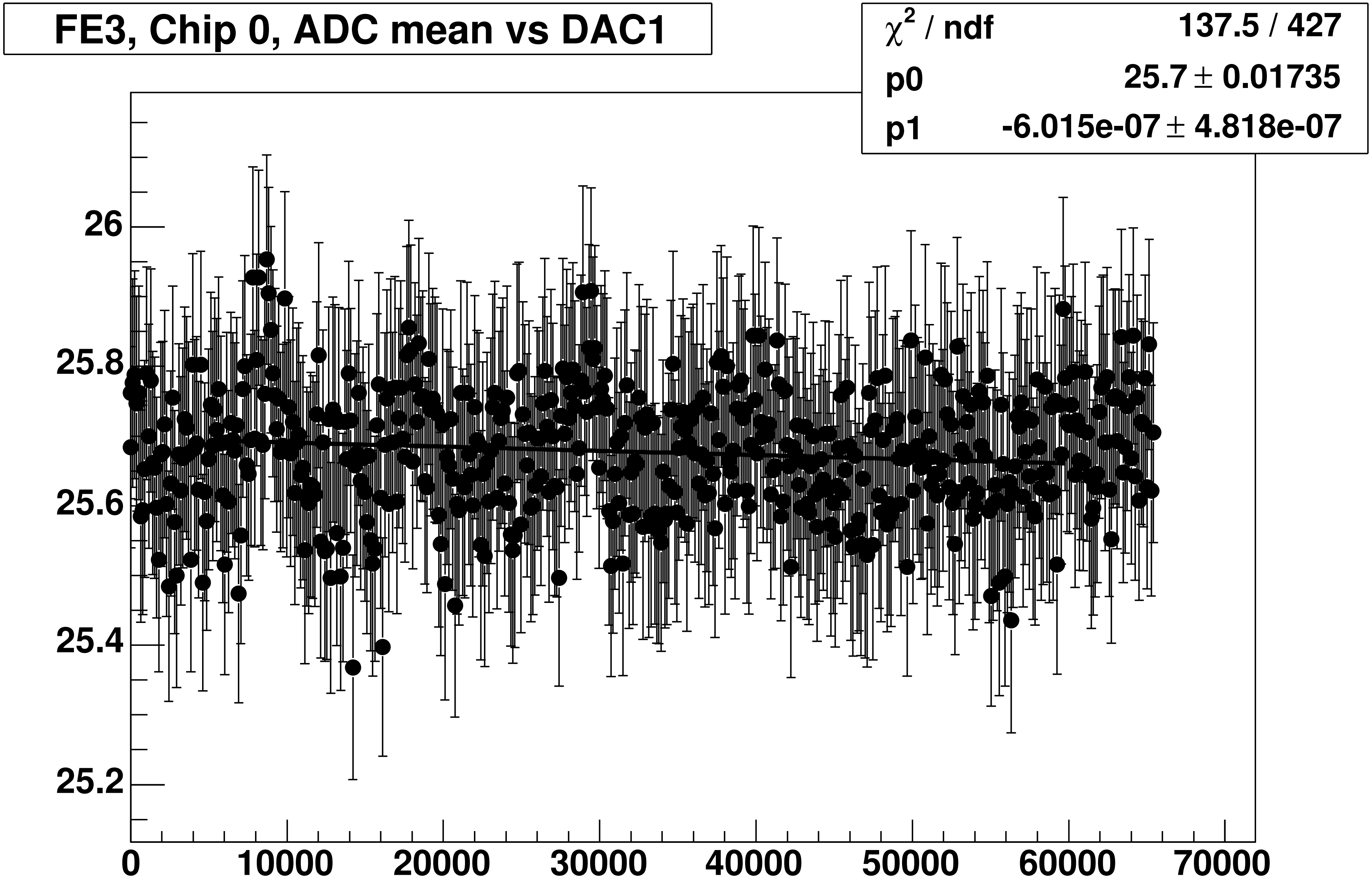

FE3, Chip 0, ADC mean vs DAC0
χ2 / ndf 7.633e+04 / 427
p0 26.08 ± 0.01221
p1 0.4515 ± 3.794e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000



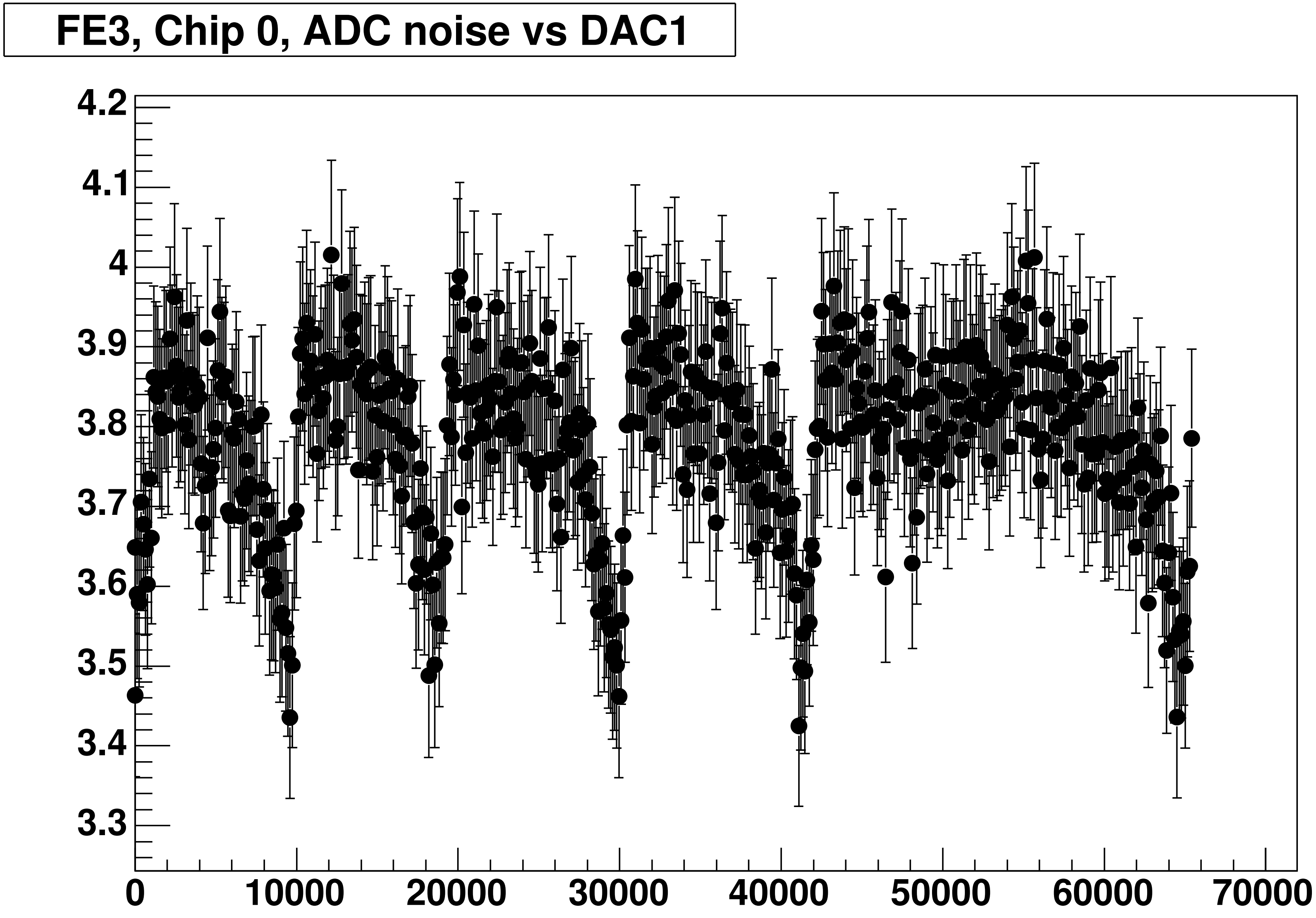
FE3, Chip 0, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000

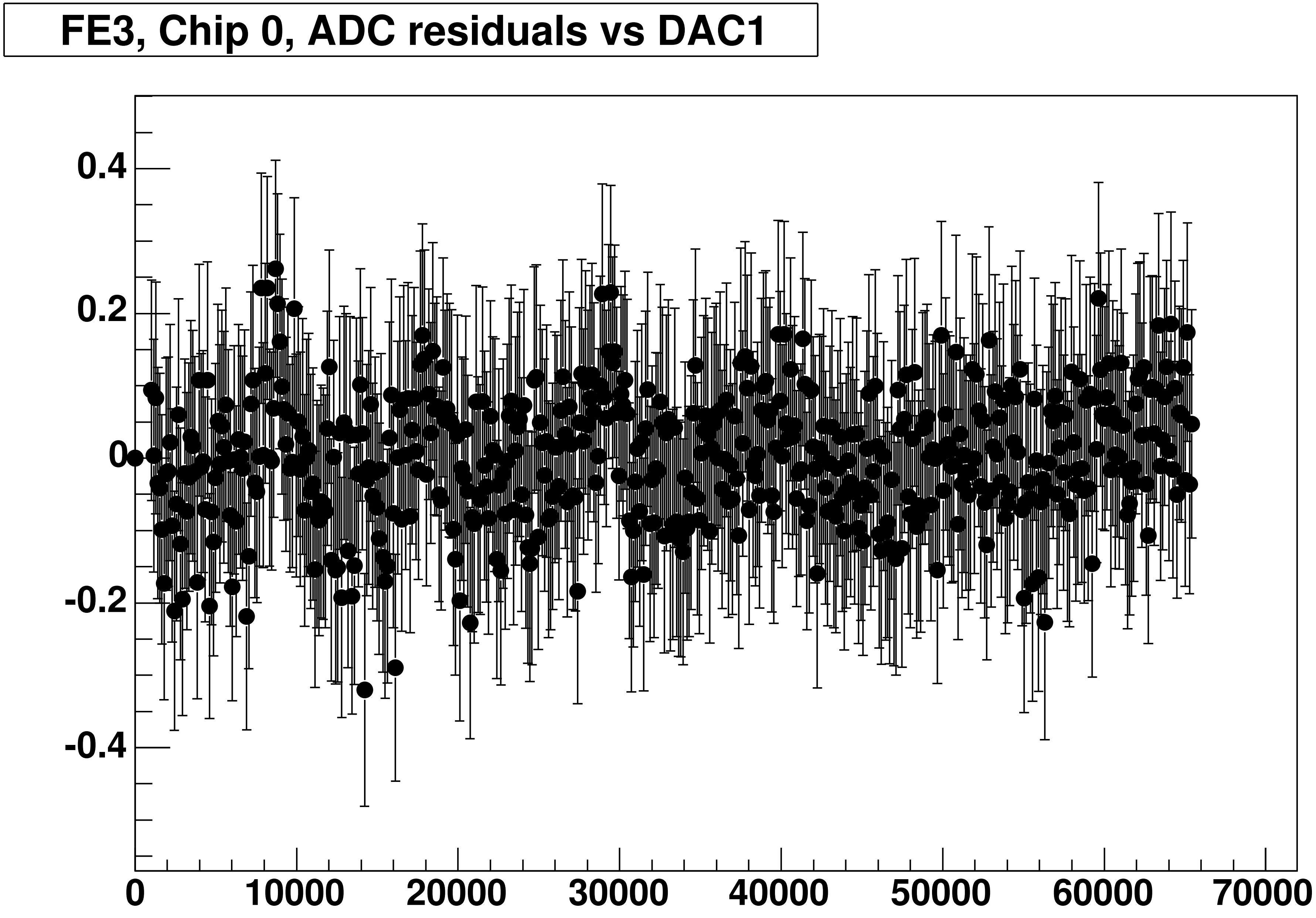


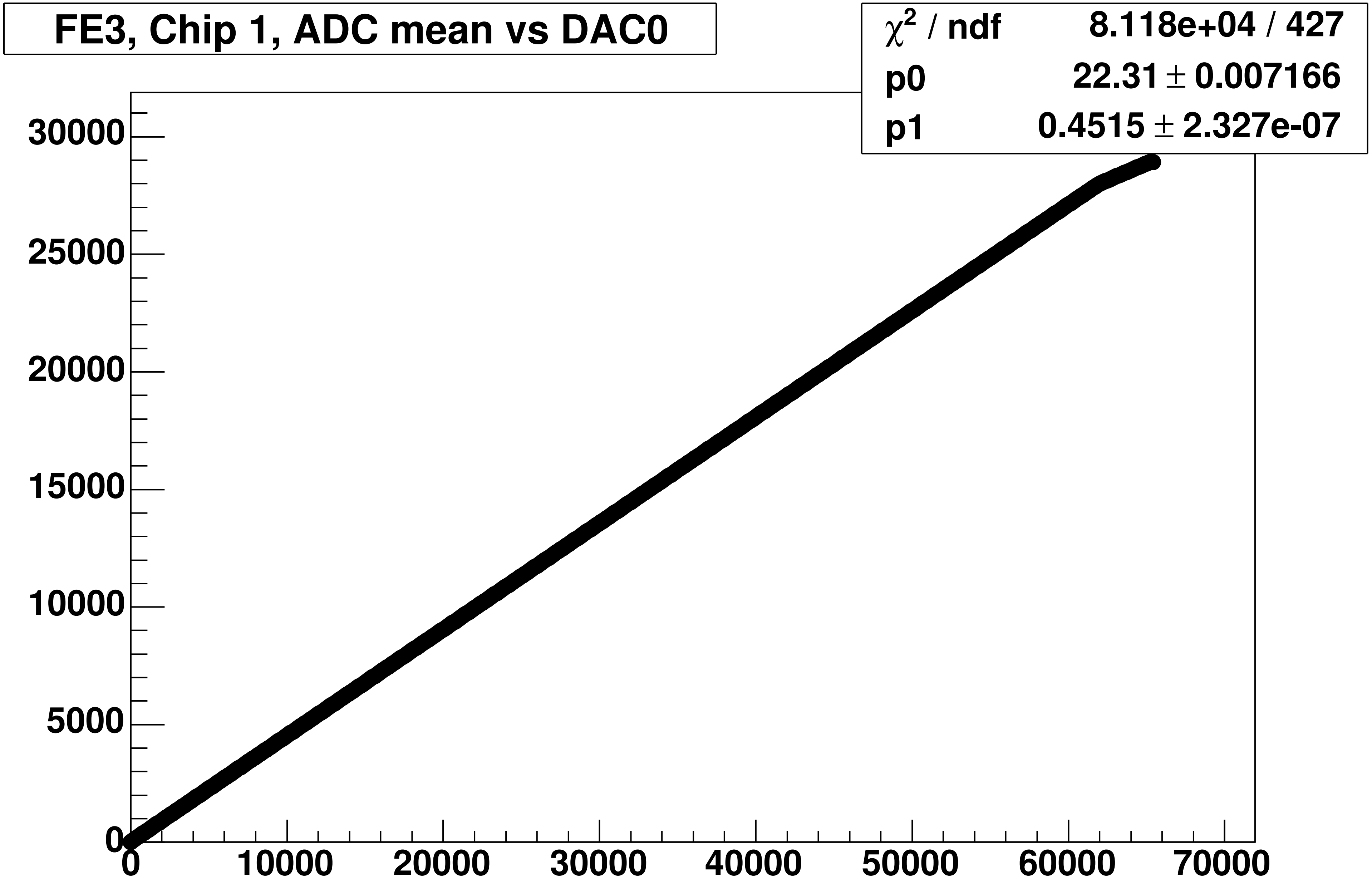
FE3, Chip 0, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
-700
0
10000
20000
30000
40000
50000
60000
70000

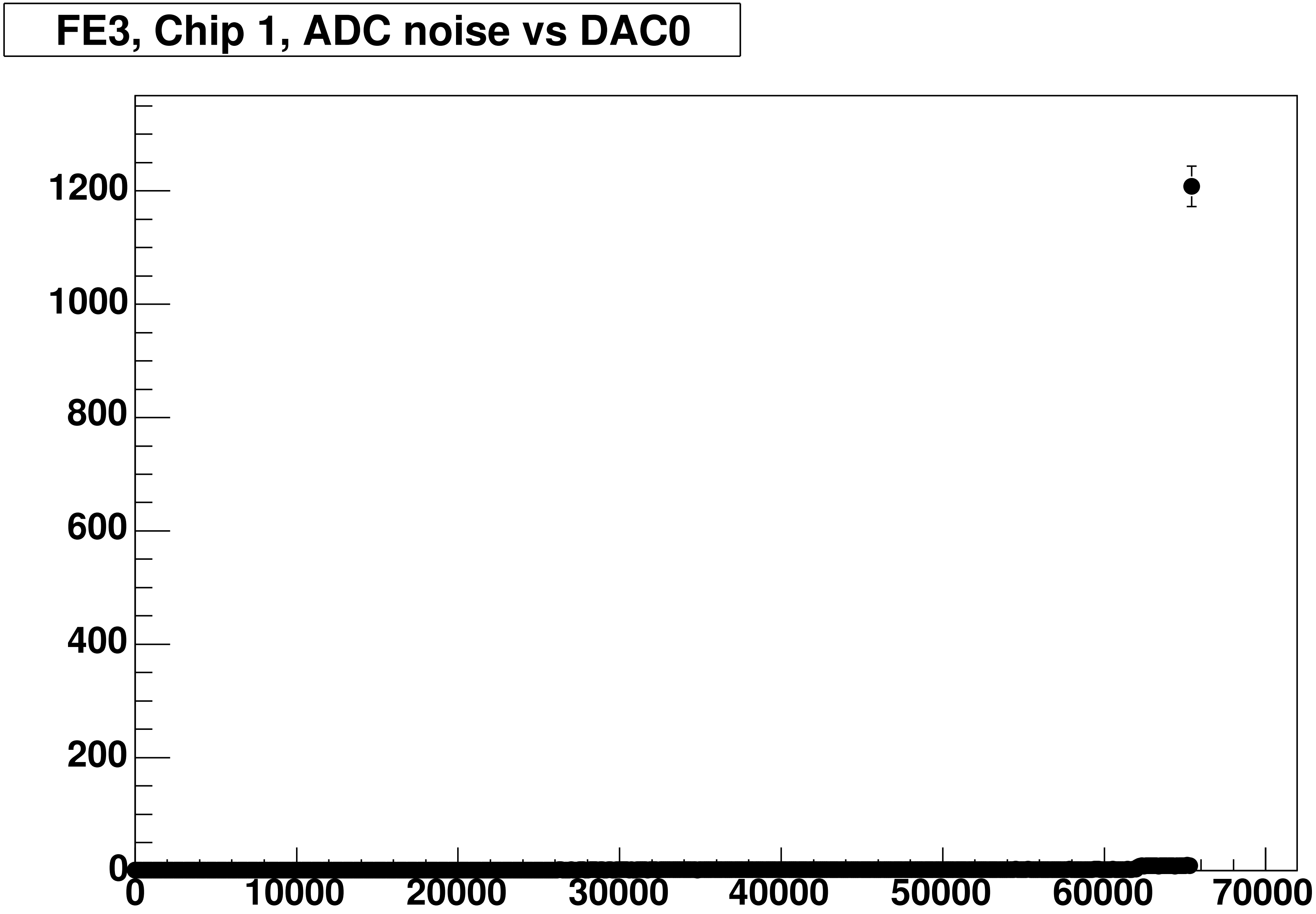


FE3, Chip 0, ADC mean vs DAC1
χ² / ndf 137.5 / 427
p0 25.7 ± 0.01735
p1 -6.015e-07 ± 4.818e-07
26
25.8
25.6
25.4
25.2
0
10000
20000
30000
40000
50000
60000
70000

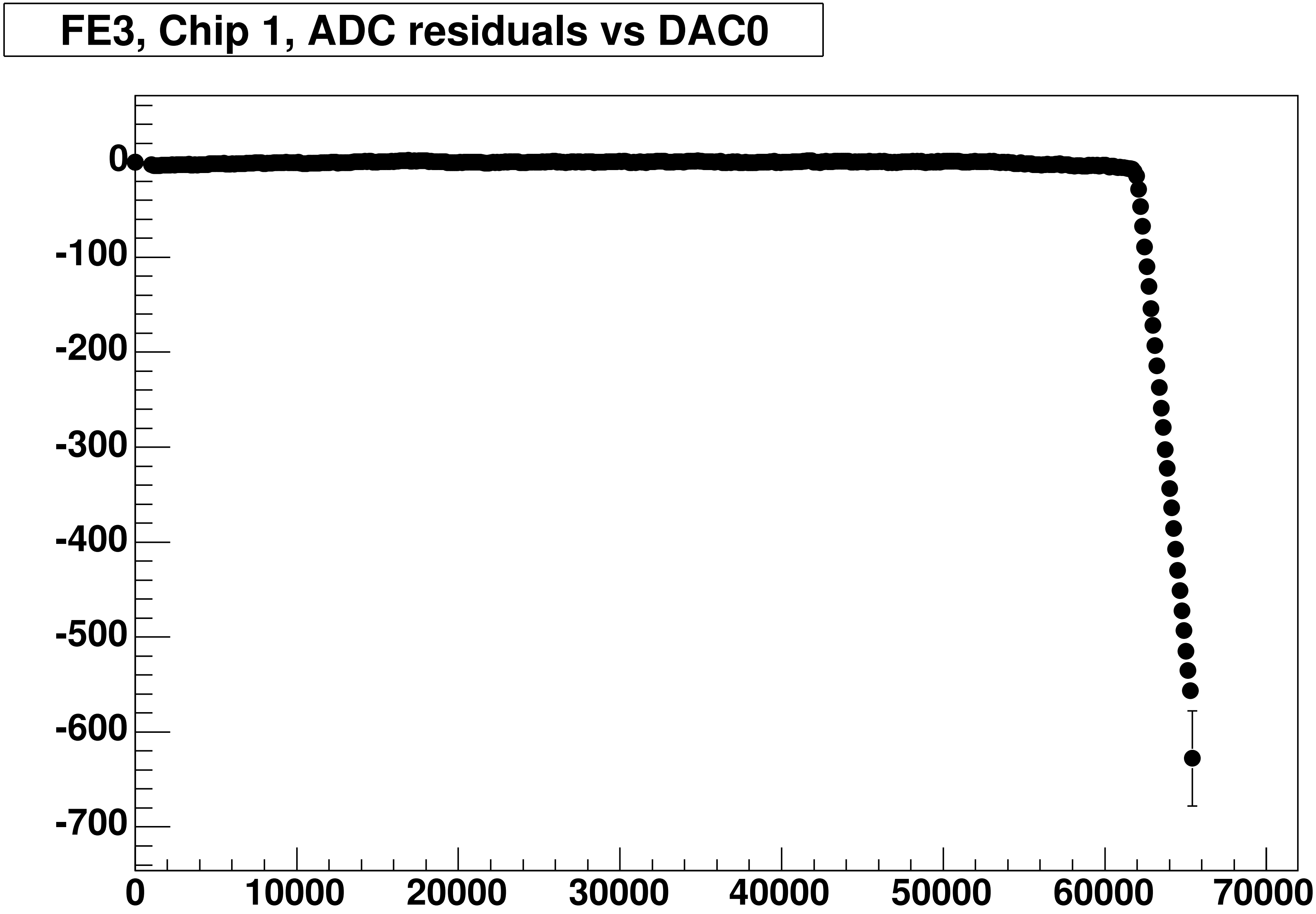

FE3, Chip 0, ADC noise vs DAC1
4.2
4.1
4
3.9
3.8
3.7
3.6
3.5
3.4
3.3
0
10000
20000
30000
40000
50000
60000
70000


FE3, Chip 0, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000
70000

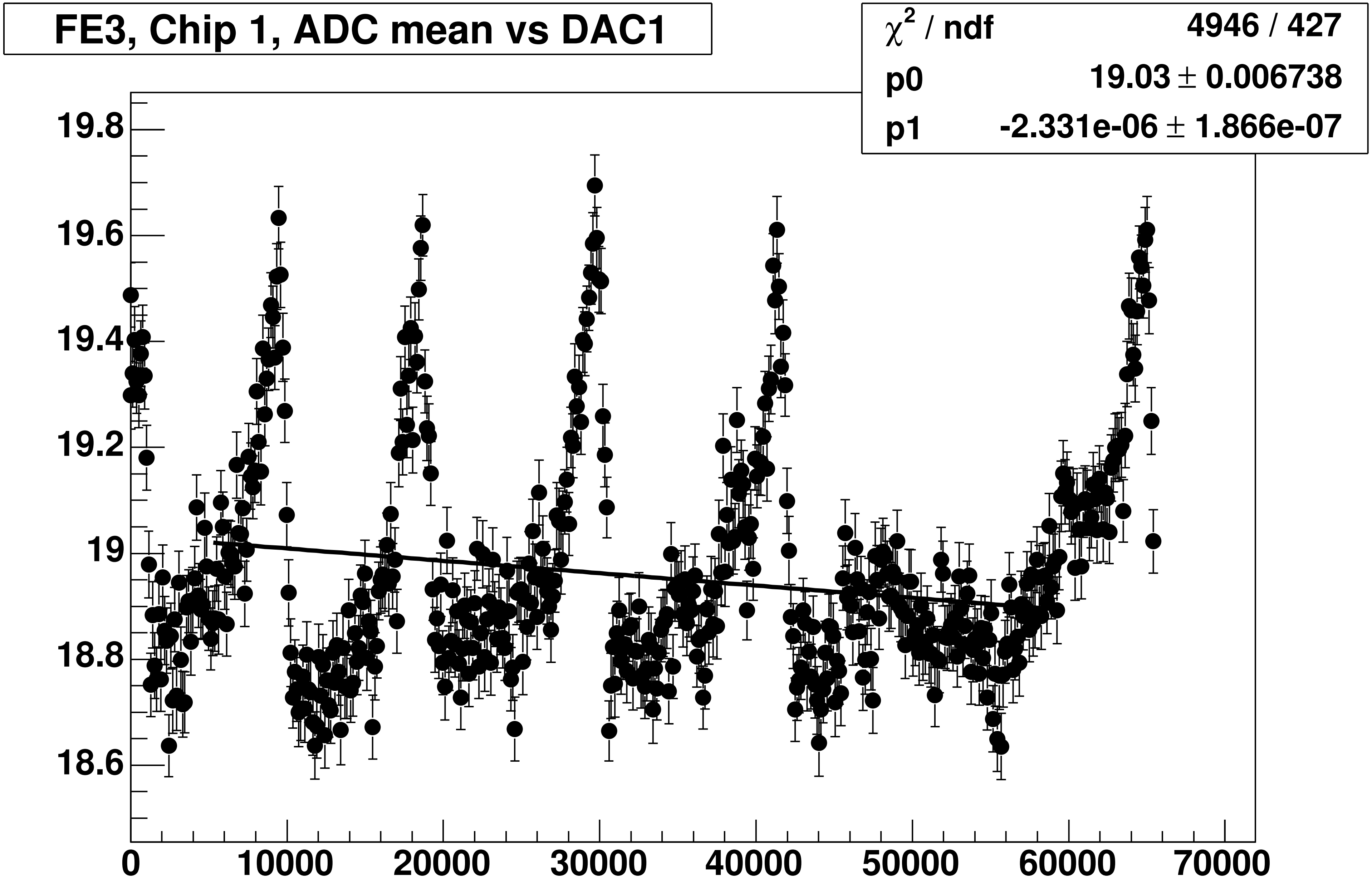

FE3, Chip 1, ADC mean vs DAC0
$\chi^2$ / ndf 8.118e+04 / 427
p0 22.31 ± 0.007166
p1 0.4515 ± 2.327e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000

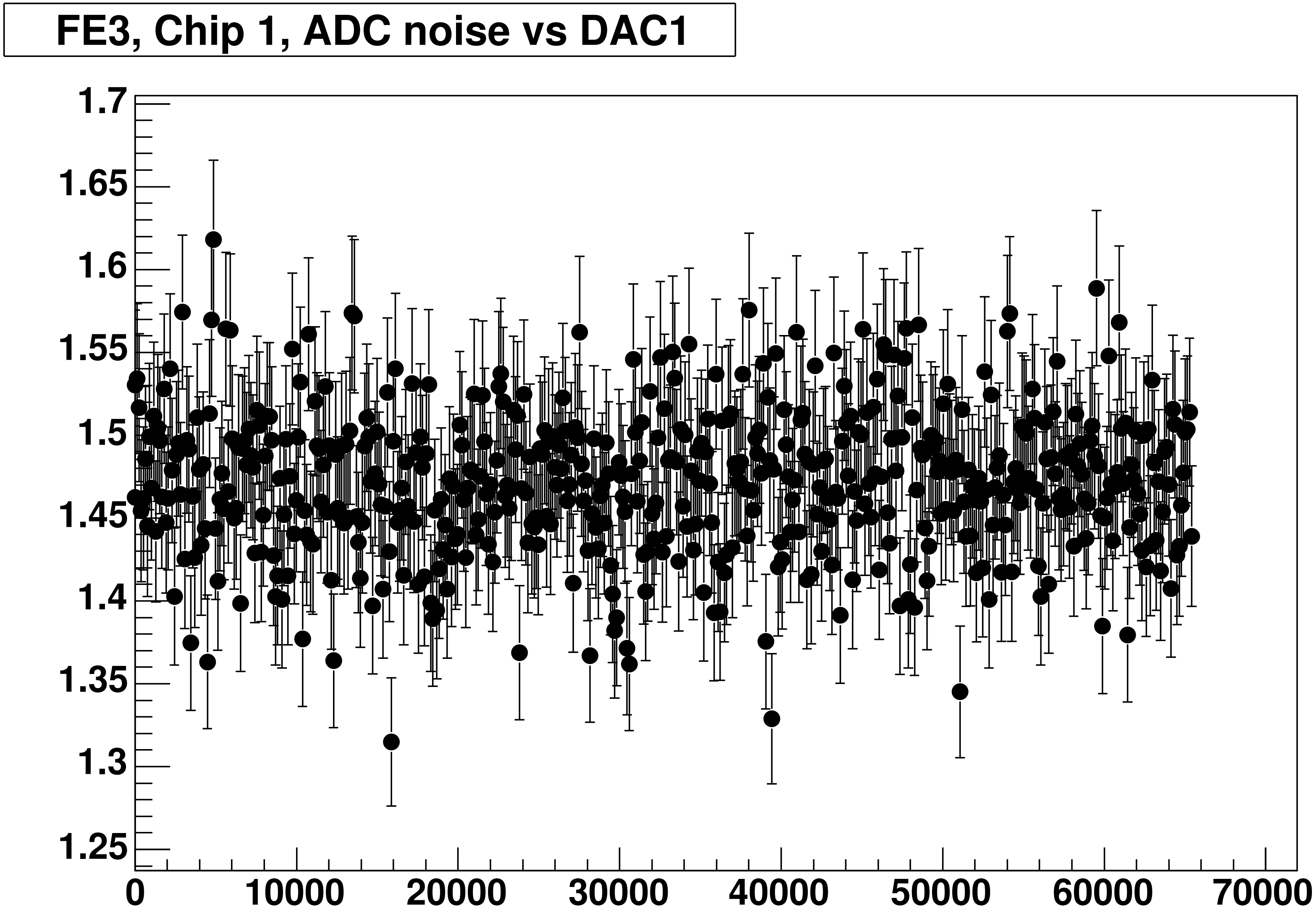


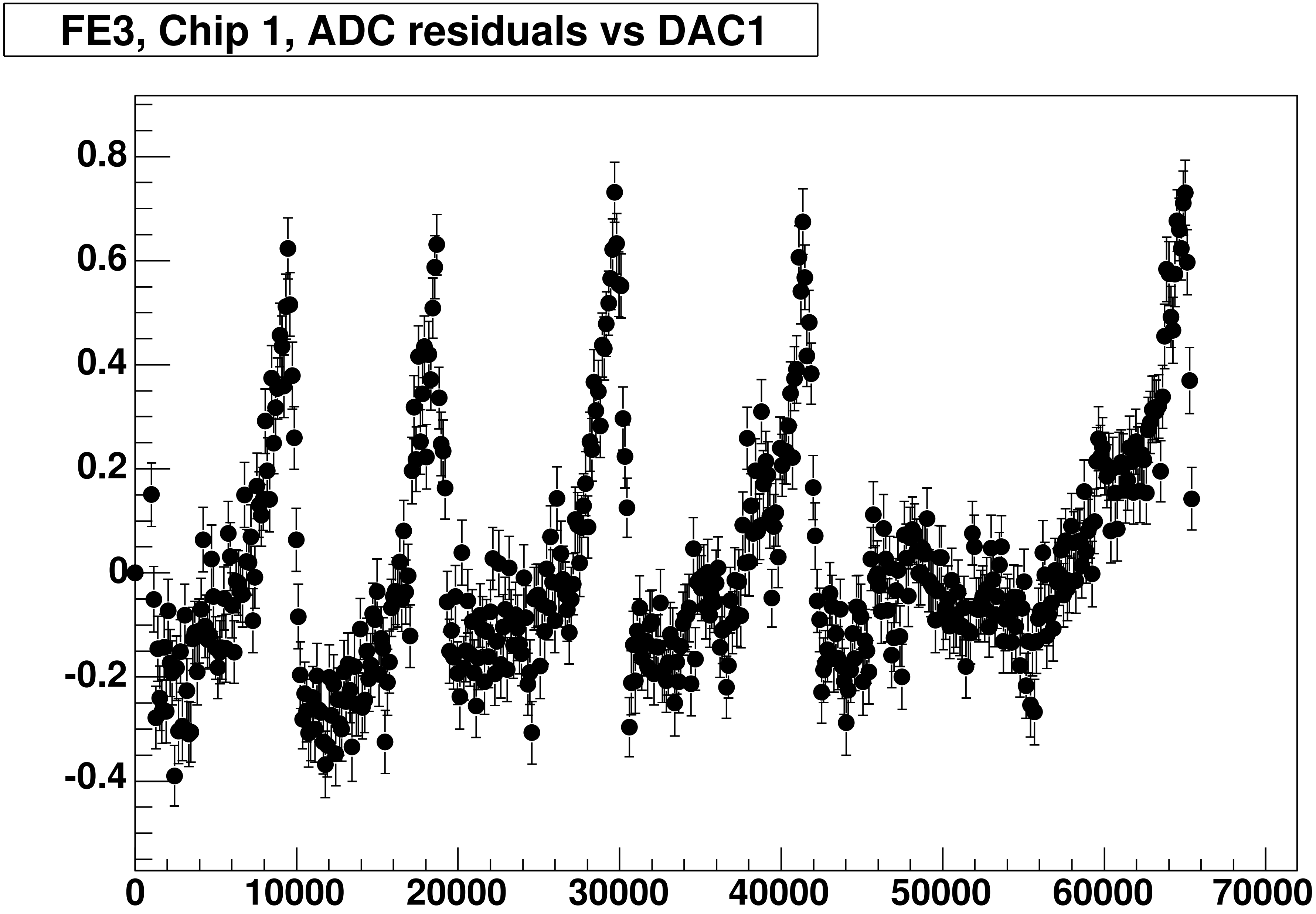
FE3, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000



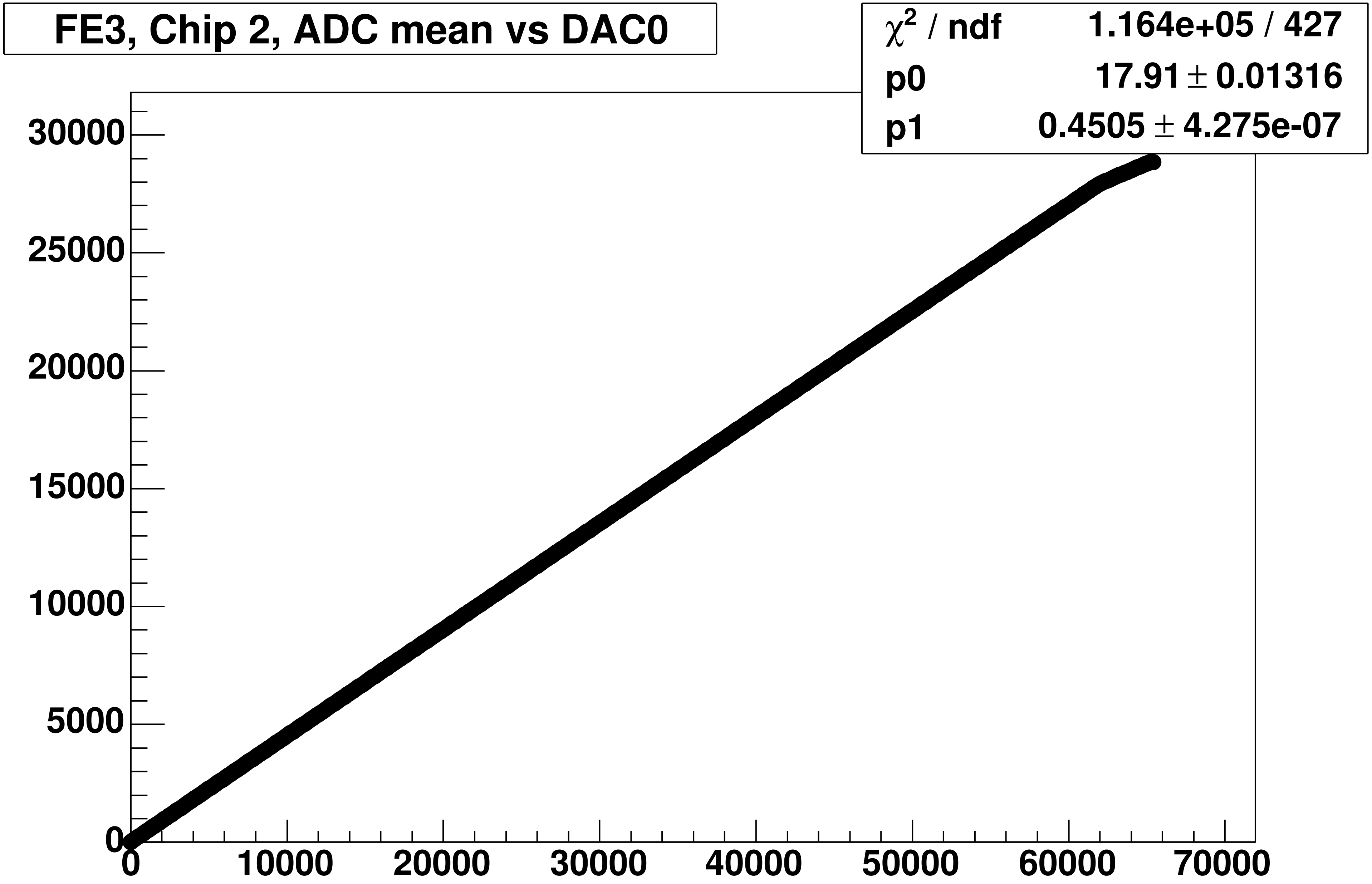
FE3, Chip 1, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
-700
0
10000
20000
30000
40000
50000
60000
70000

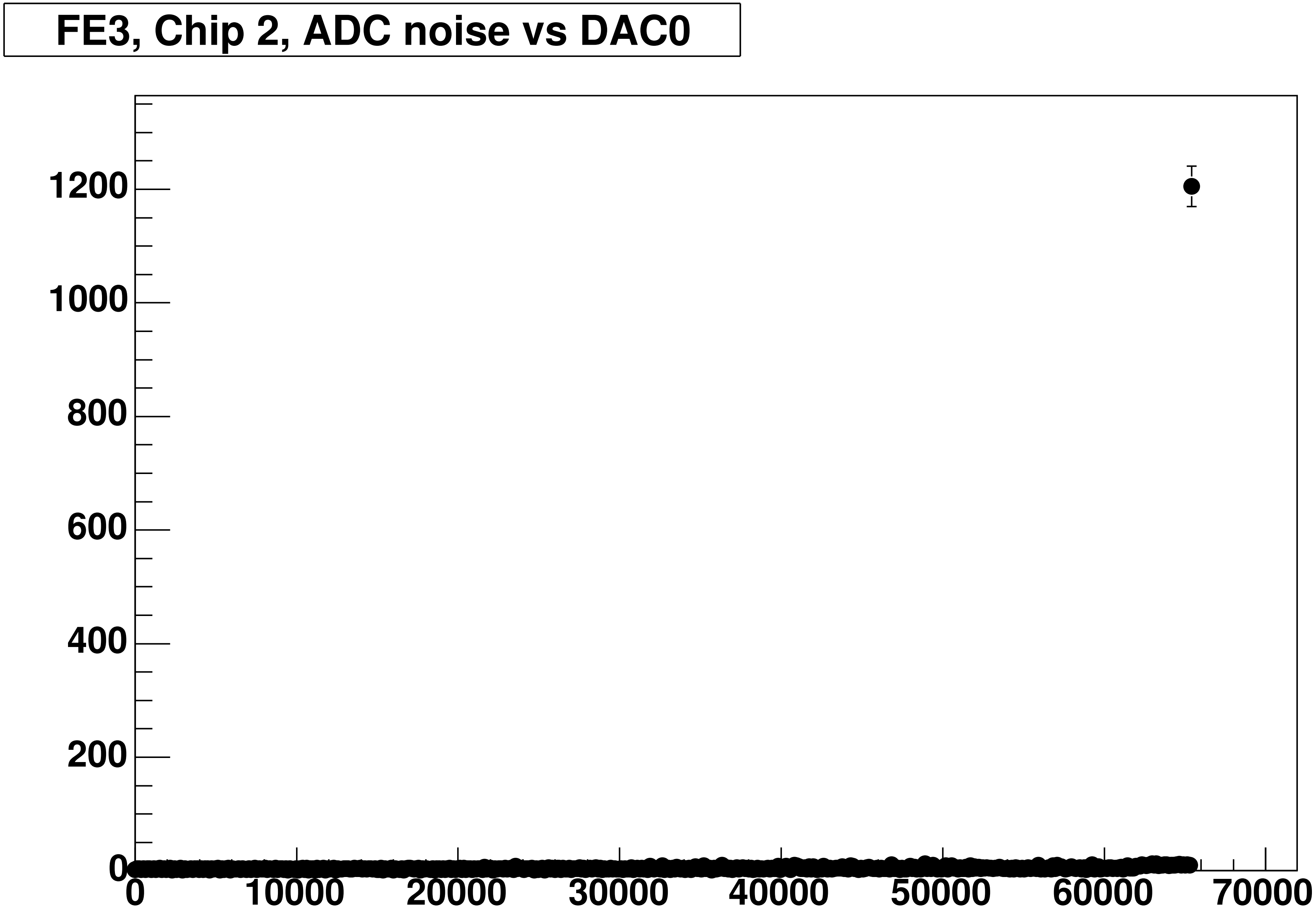

FE3, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 4946 / 427
p0 19.03 ± 0.006738
p1 -2.331e-06 ± 1.866e-07
19.8
19.6
19.4
19.2
19
18.8
18.6
0
10000
20000
30000
40000
50000
60000
70000

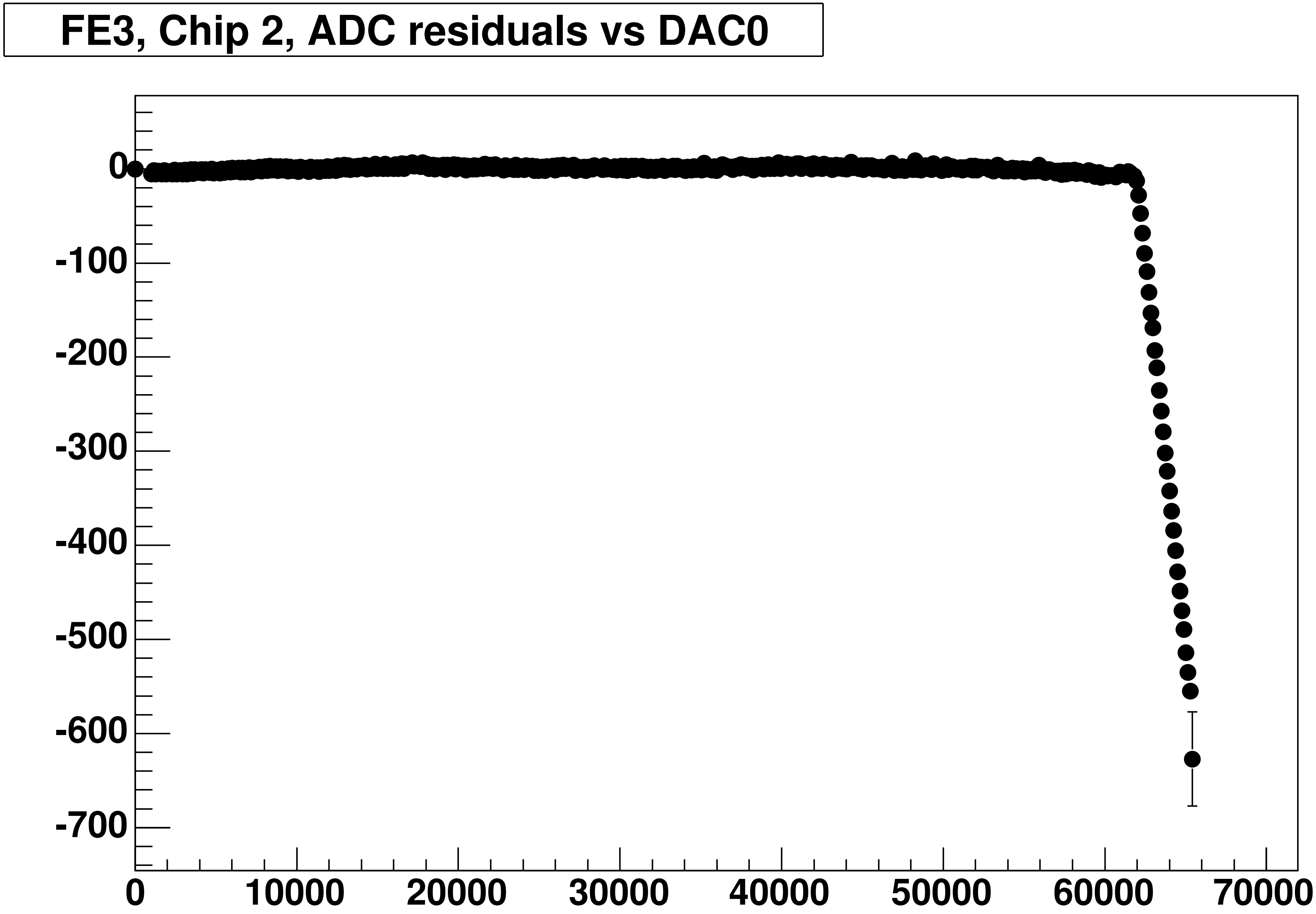

FE3, Chip 1, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
1.25
0
10000
20000
30000
40000
50000
60000
70000



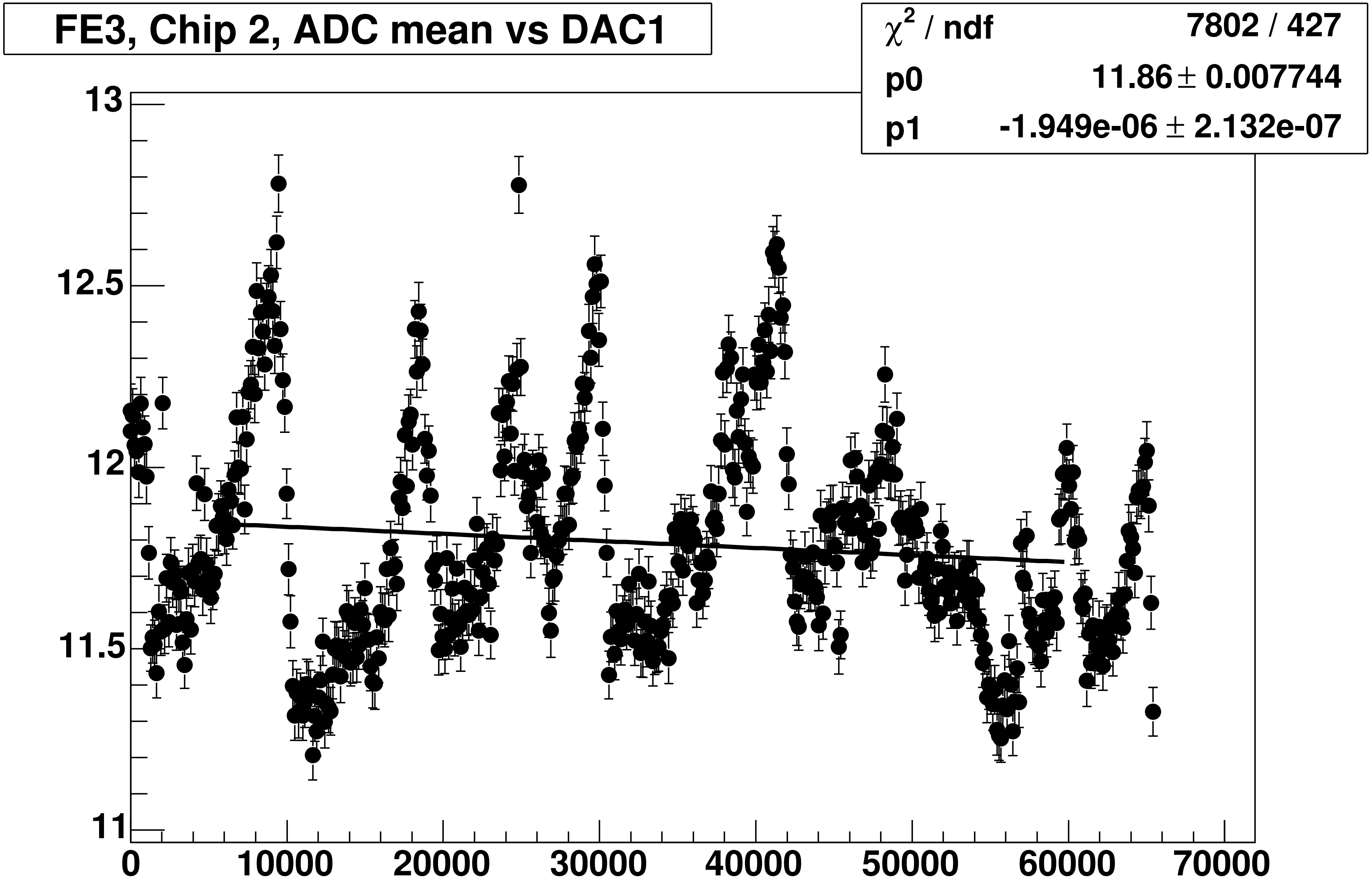
FE3, Chip 1, ADC residuals vs DAC1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000
70000

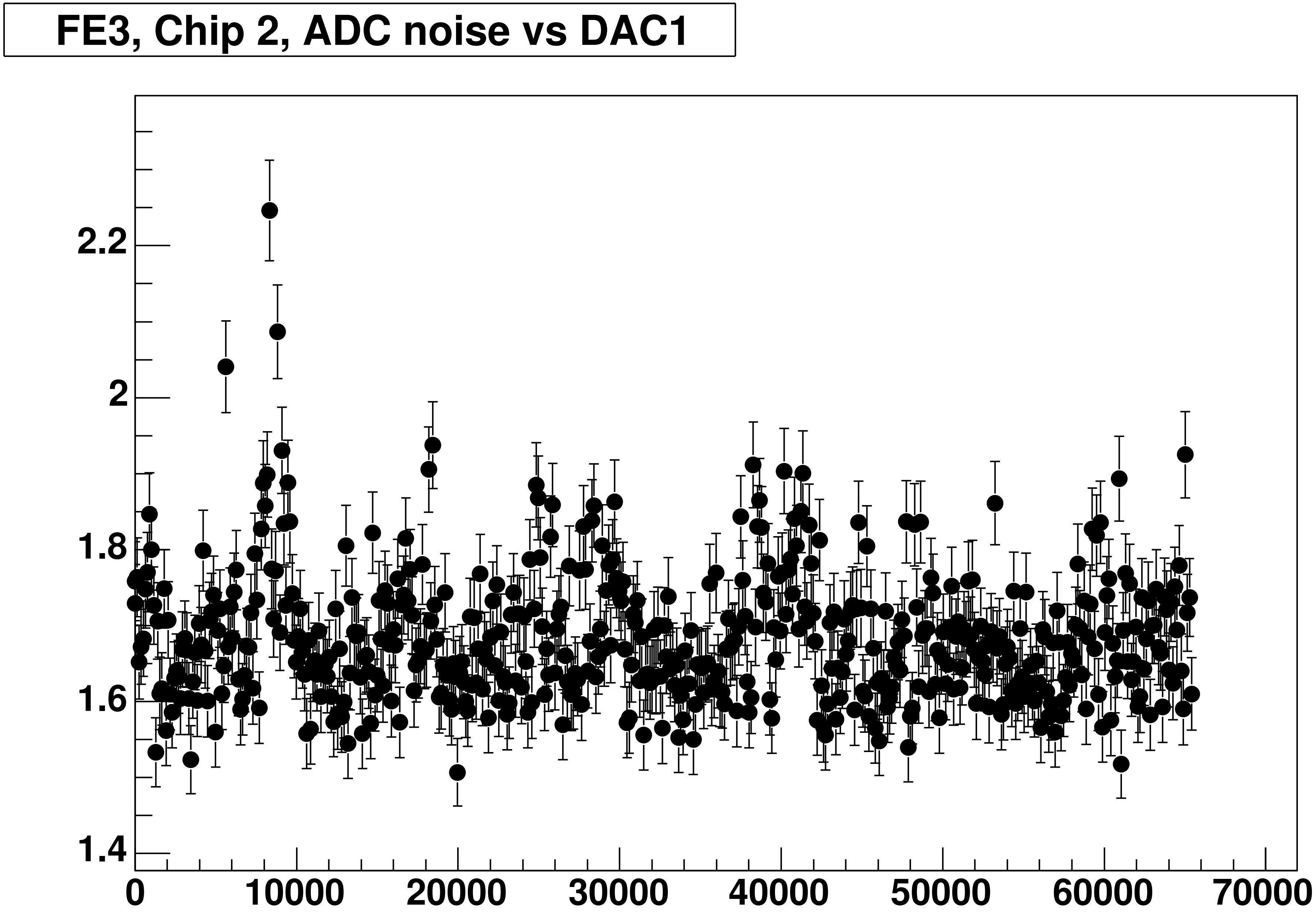

FE3, Chip 2, ADC mean vs DAC0
$\chi^2$ / ndf 1.164e+05 / 427
p0 17.91 ± 0.01316
p1 0.4505 ± 4.275e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000


FE3, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000

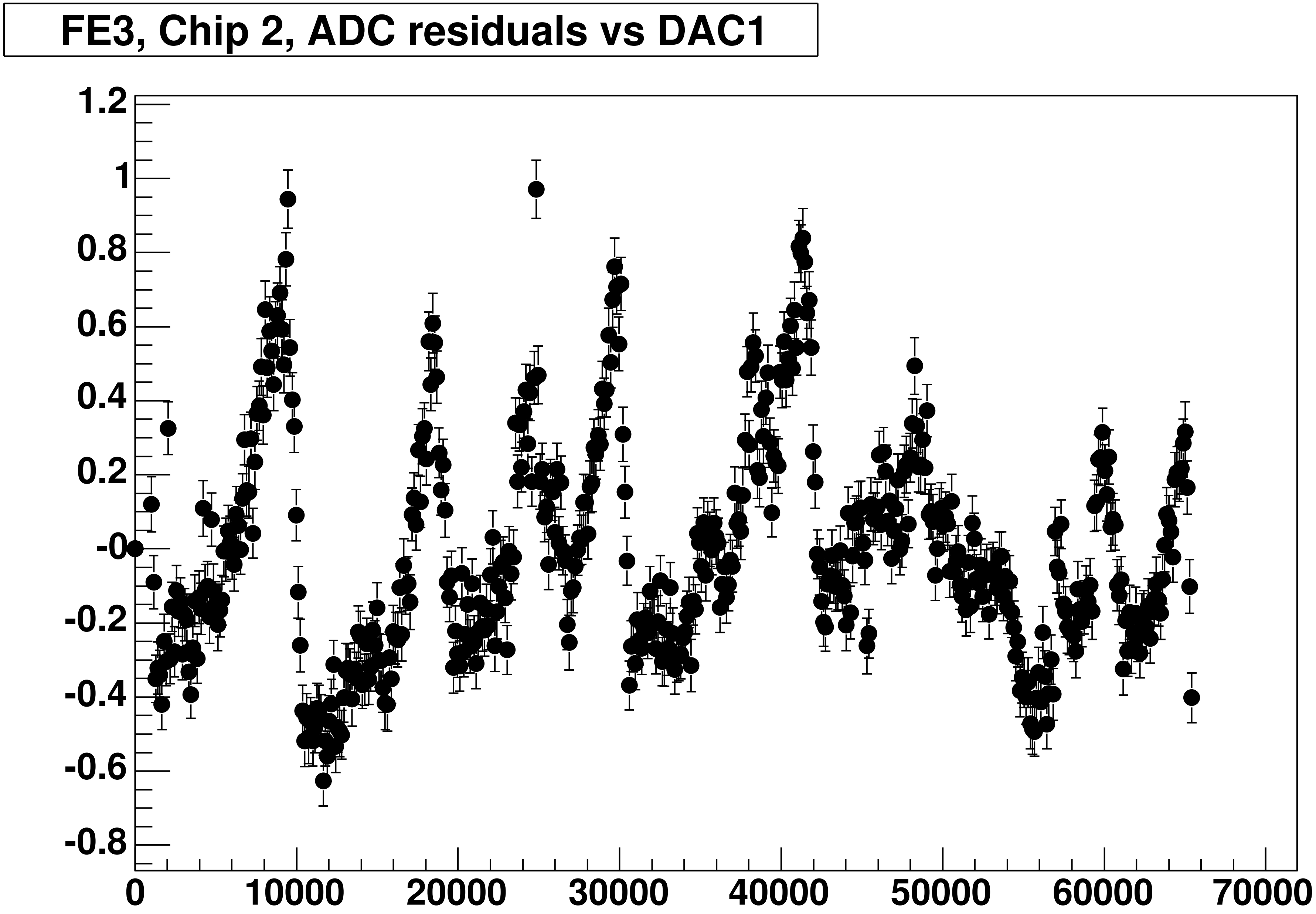


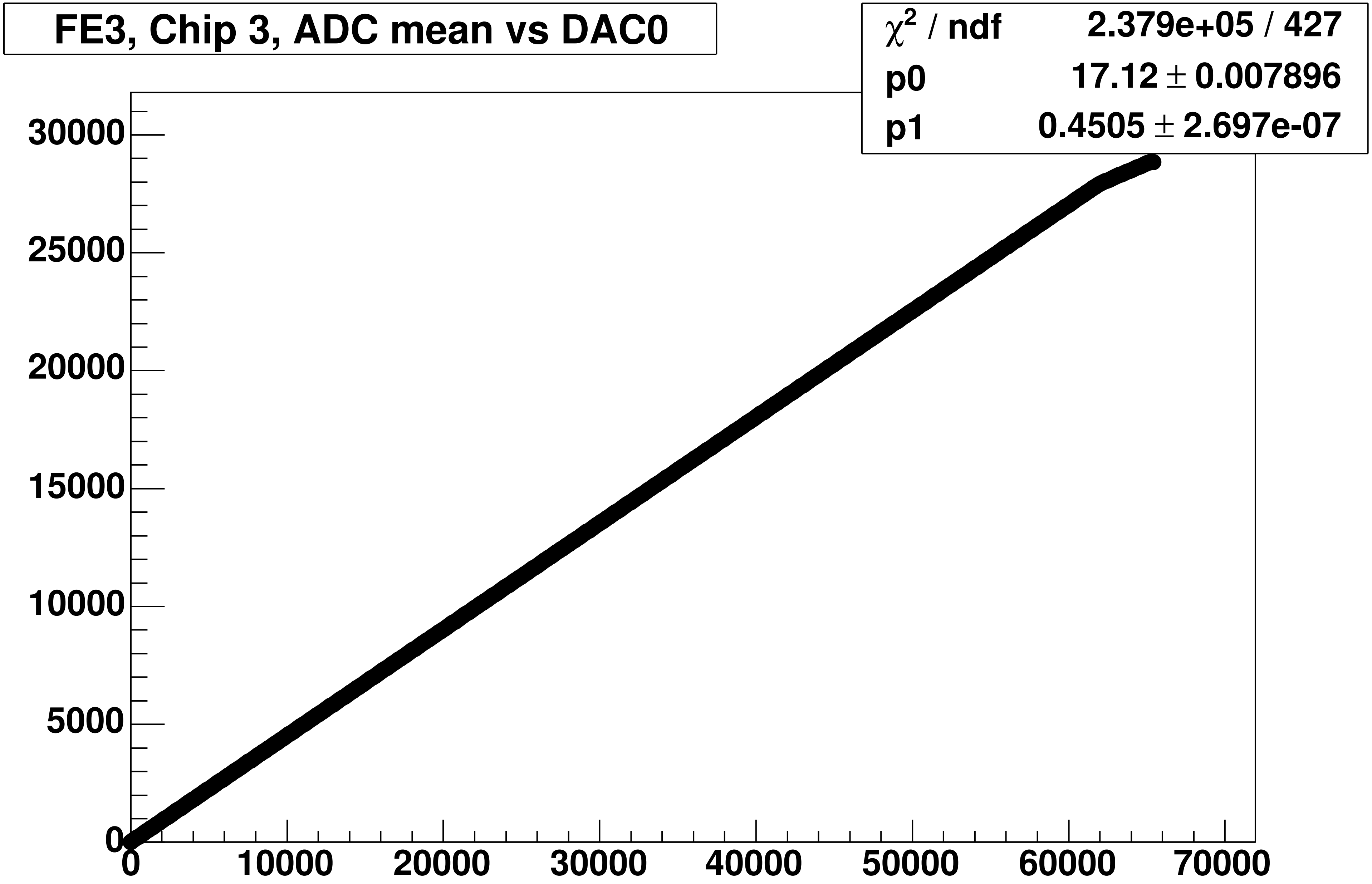
FE3, Chip 2, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
-700
0
10000
20000
30000
40000
50000
60000
70000

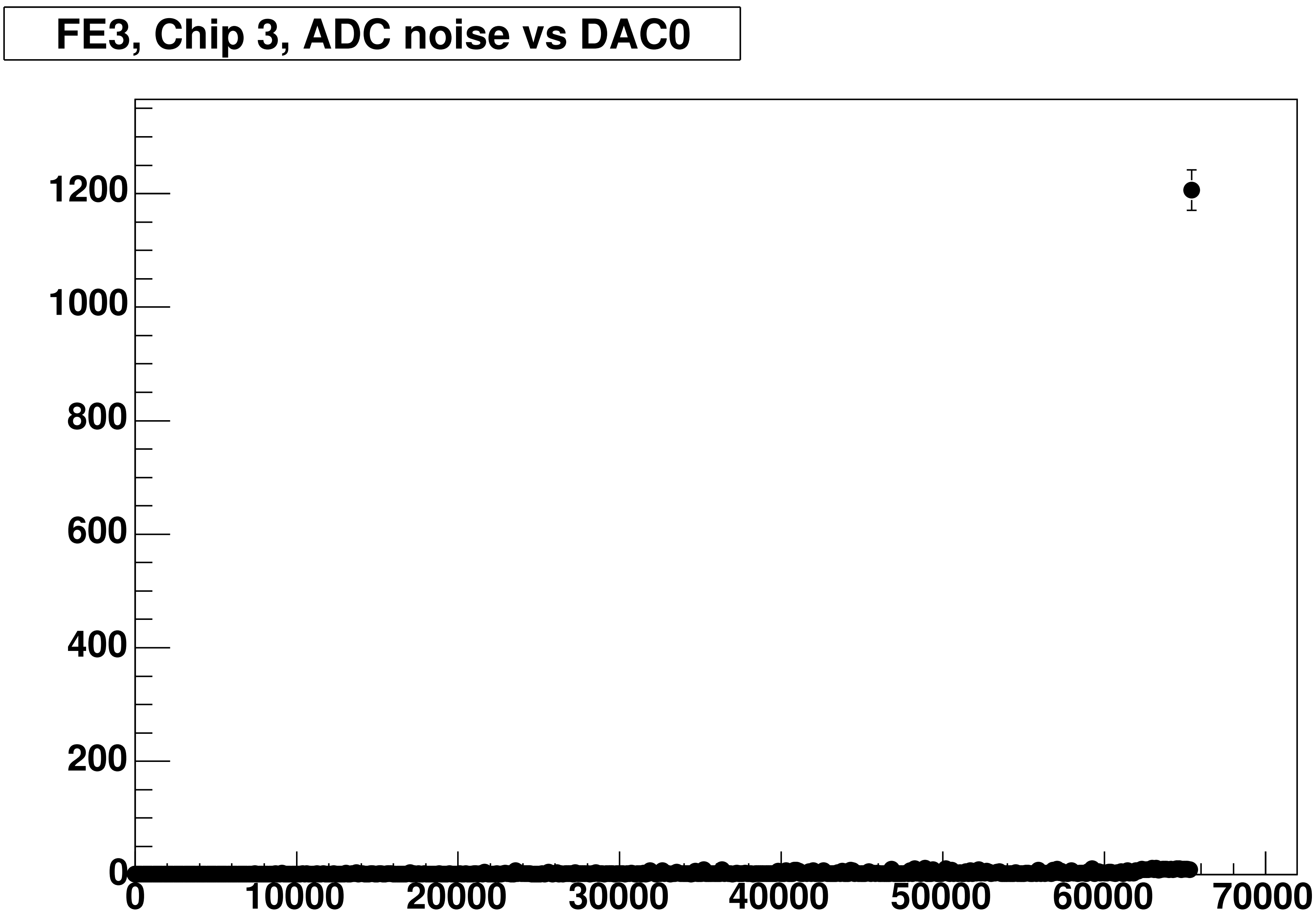

FE3, Chip 2, ADC mean vs DAC1
$\chi^2$ / ndf 7802 / 427
p0 11.86 ± 0.007744
p1 -1.949e-06 ± 2.132e-07
13
12.5
12
11.5
11
0
10000
20000
30000
40000
50000
60000
70000



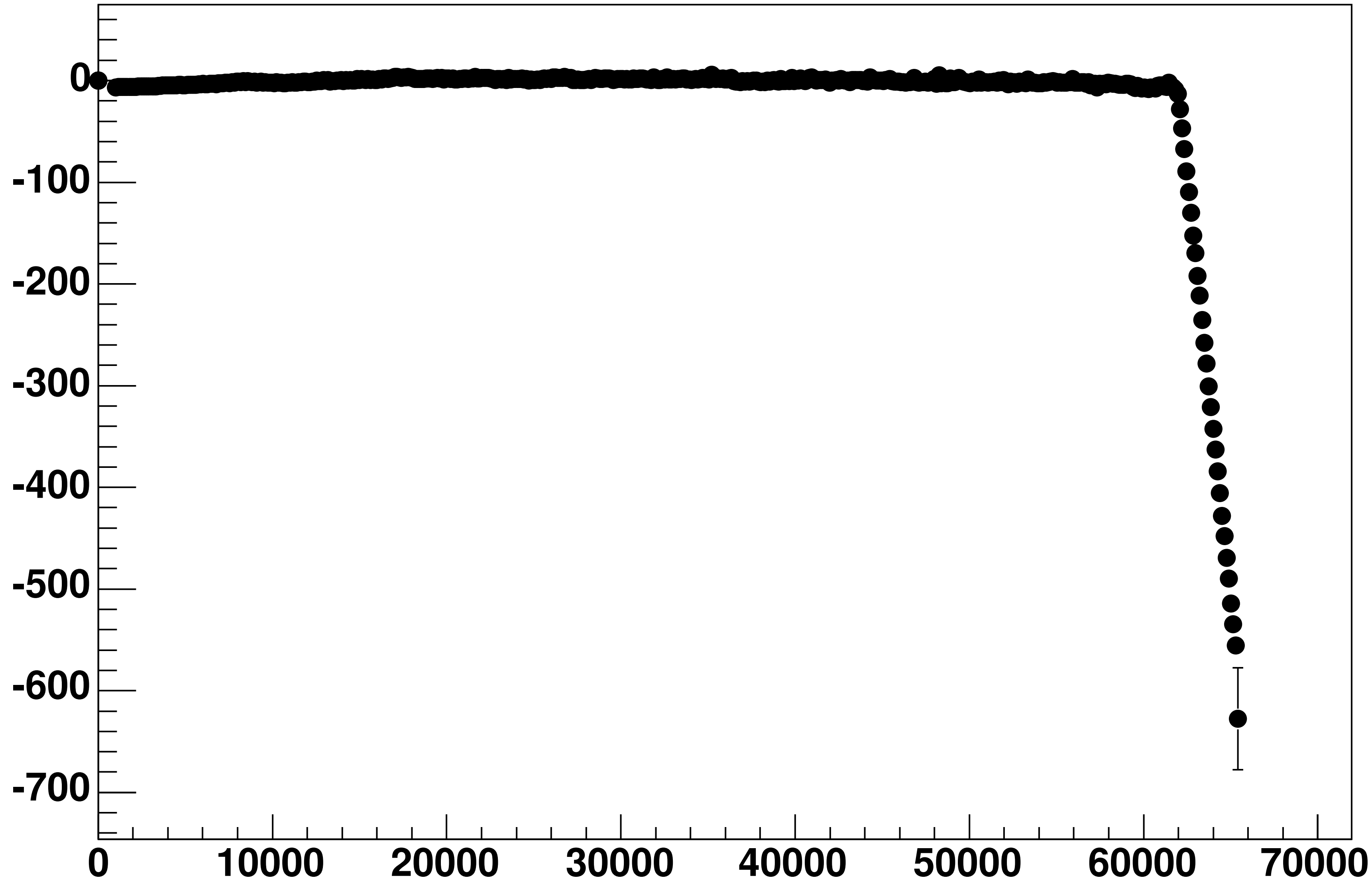
FE3, Chip 2, ADC noise vs DAC1
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000
70000

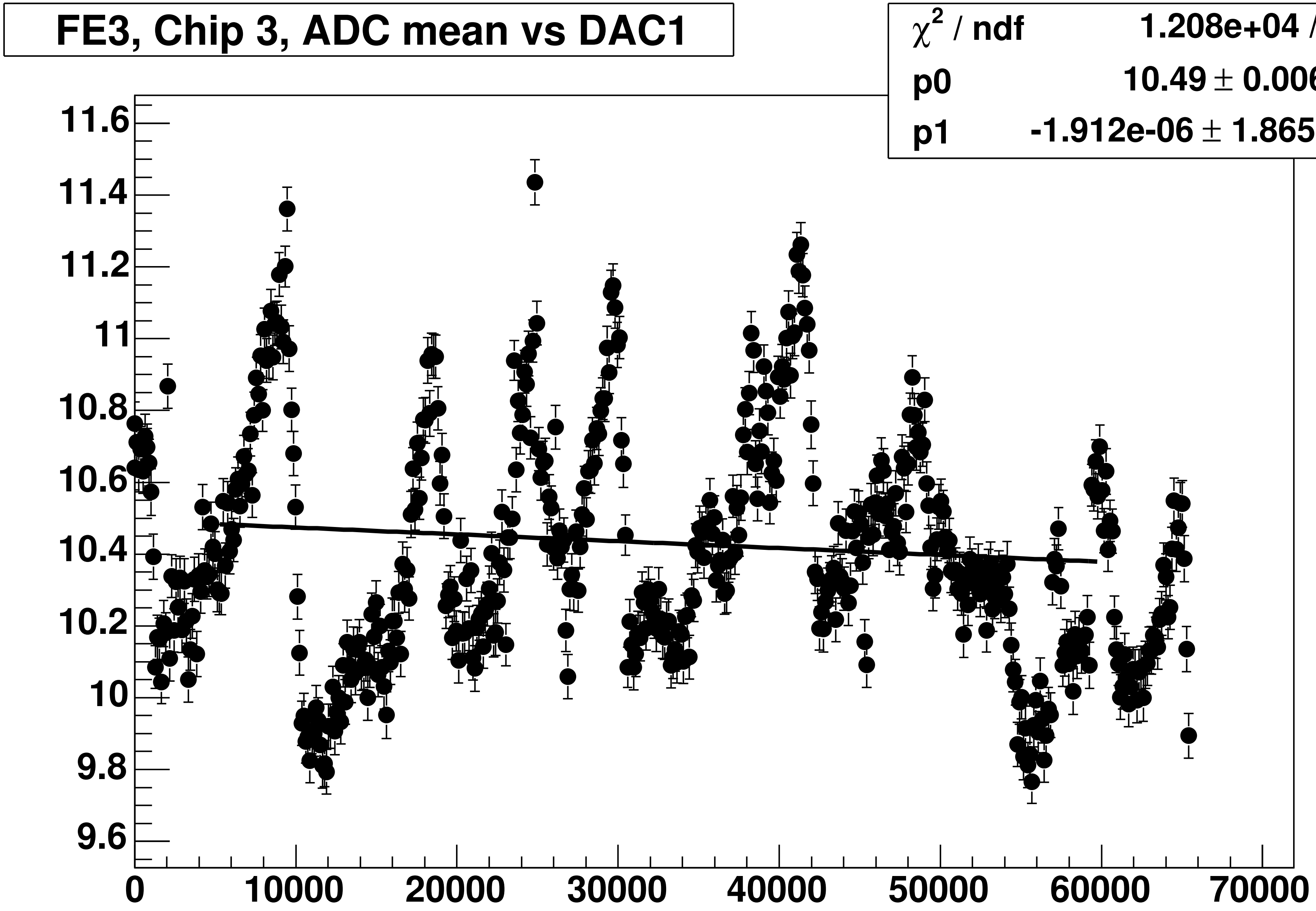

FE3, Chip 2, ADC residuals vs DAC1
1.2
1
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
0
10000
20000
30000
40000
50000
60000
70000


FE3, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 2.379e+05 / 427
p0 17.12 ± 0.007896
p1 0.4505 ± 2.697e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000

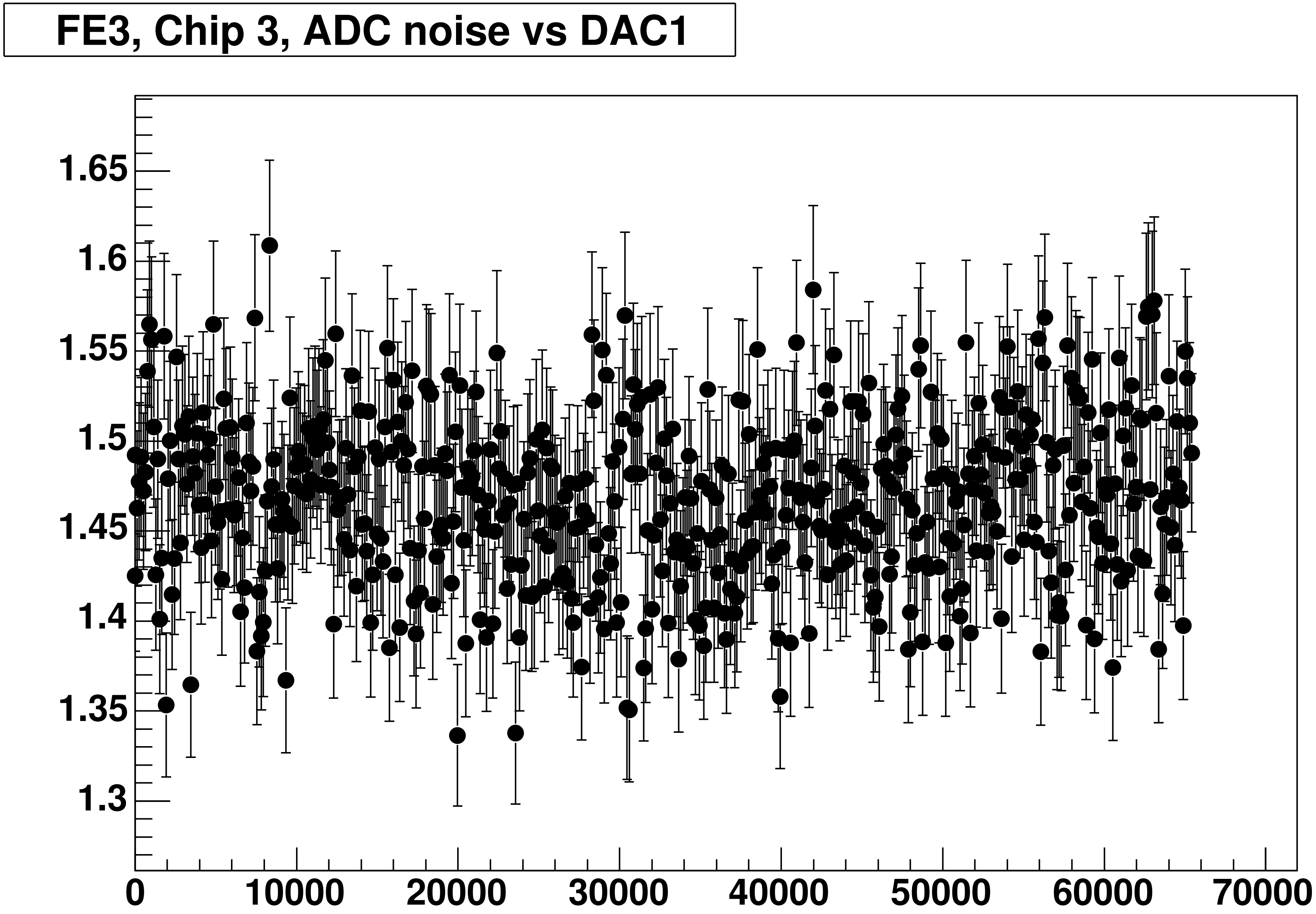

FE3, Chip 3, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000

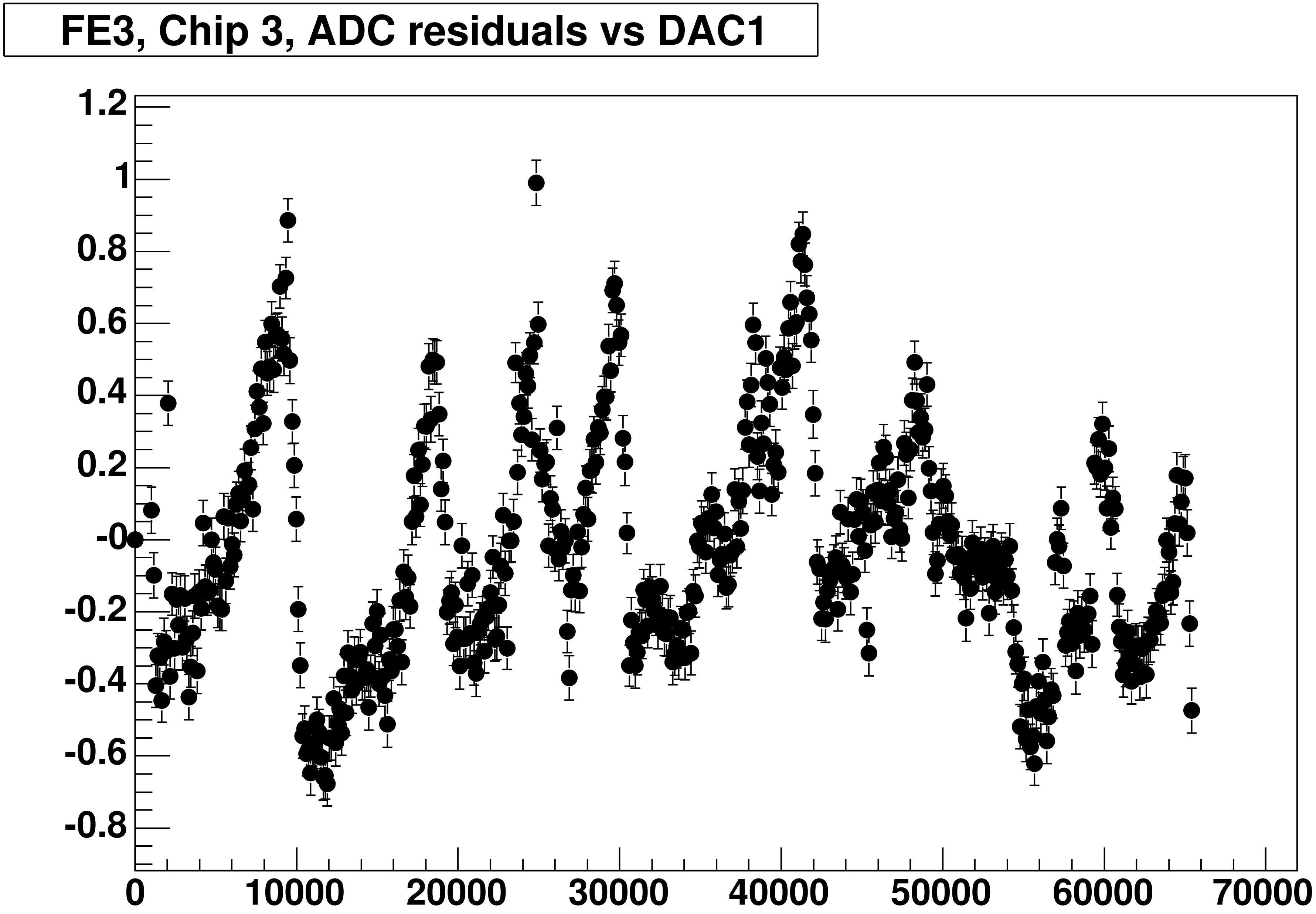
FE3, Chip 3, ADC residuals vs DAC0



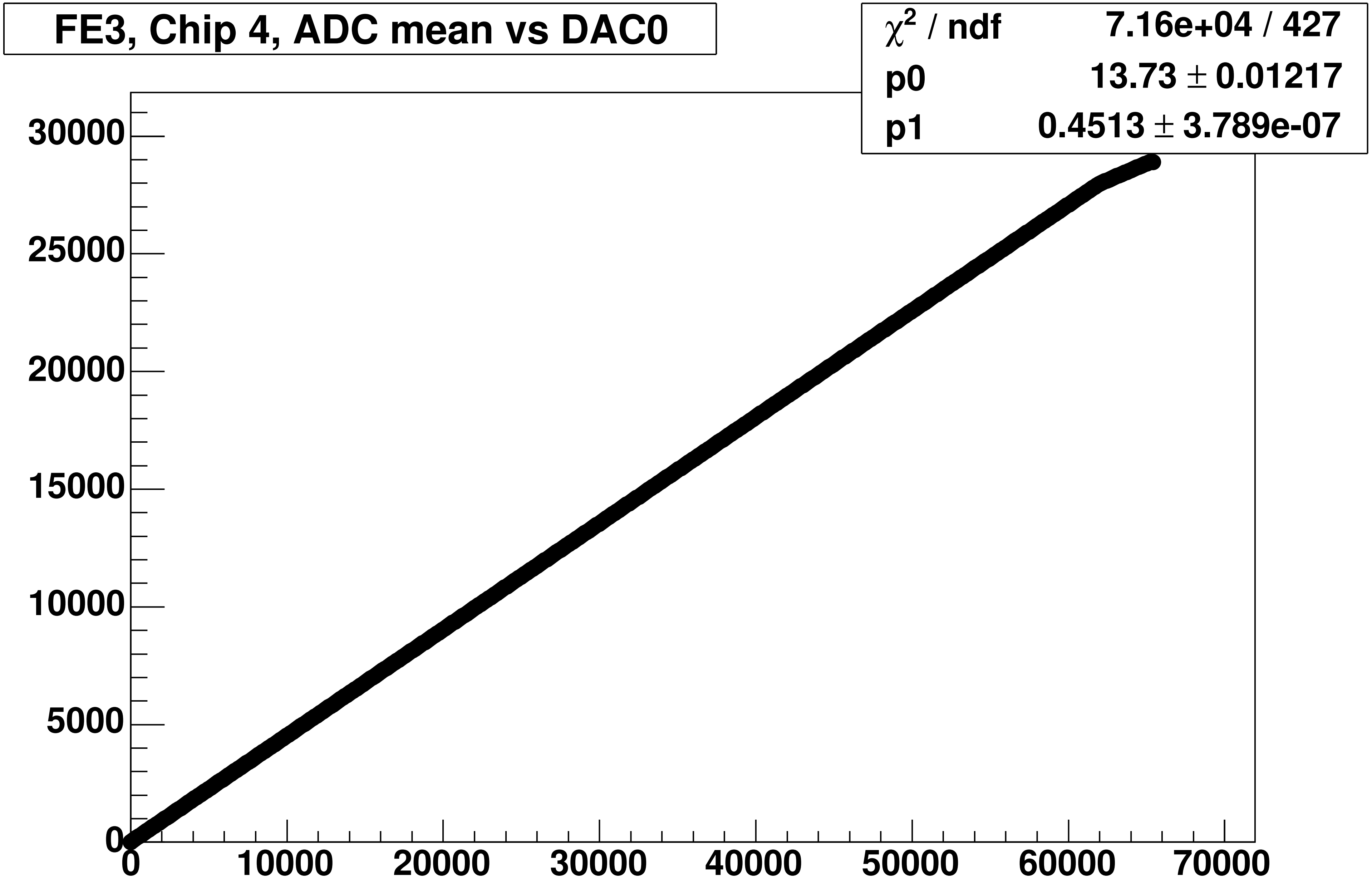


FE3, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 1.208e+04 / 427
p0 10.49 ± 0.006735
p1 -1.912e-06 ± 1.865e-07
11.6
11.4
11.2
11
10.8
10.6
10.4
10.2
10
9.8
9.6
0
10000
20000
30000
40000
50000
60000
70000

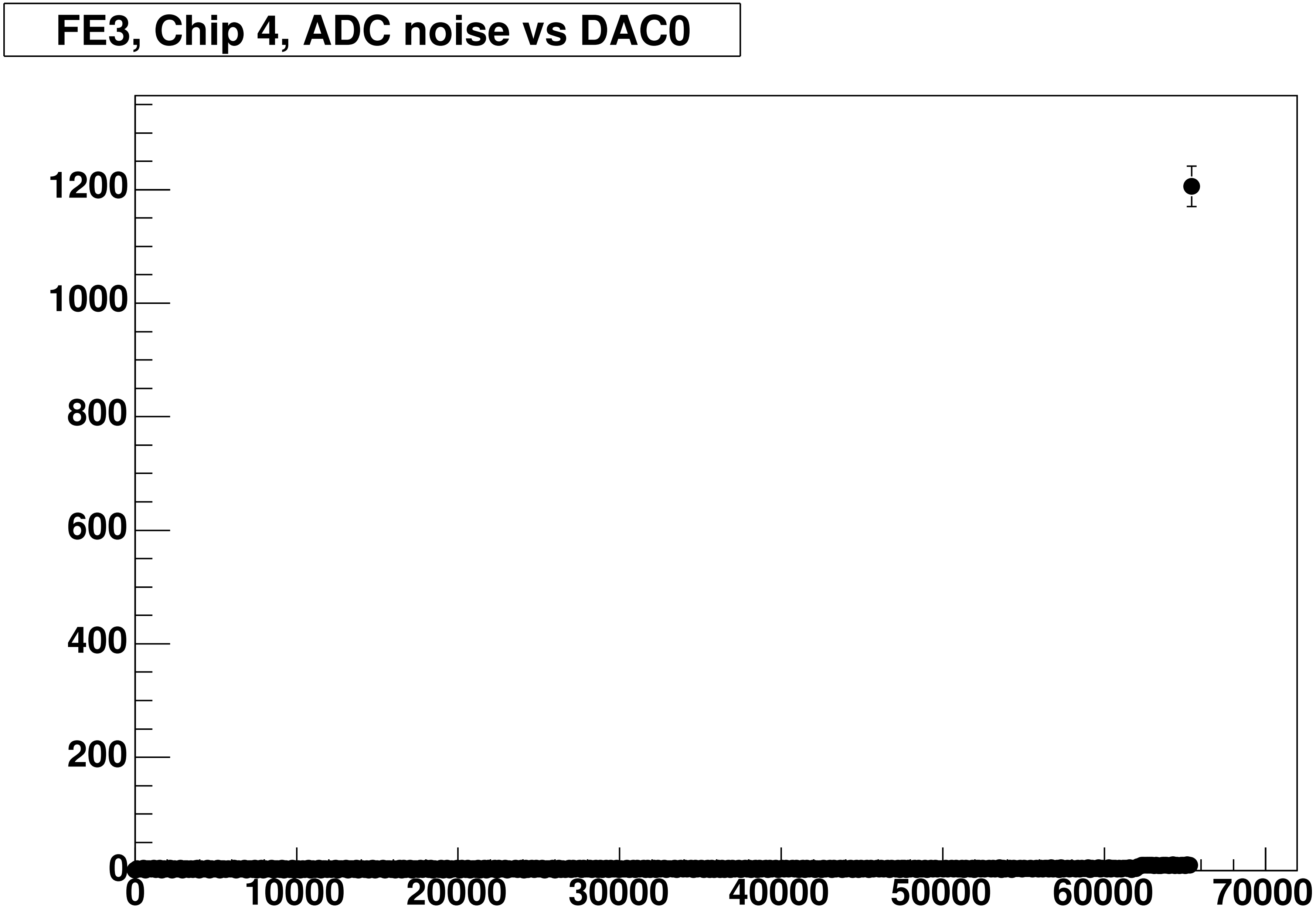

FE3, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000
70000

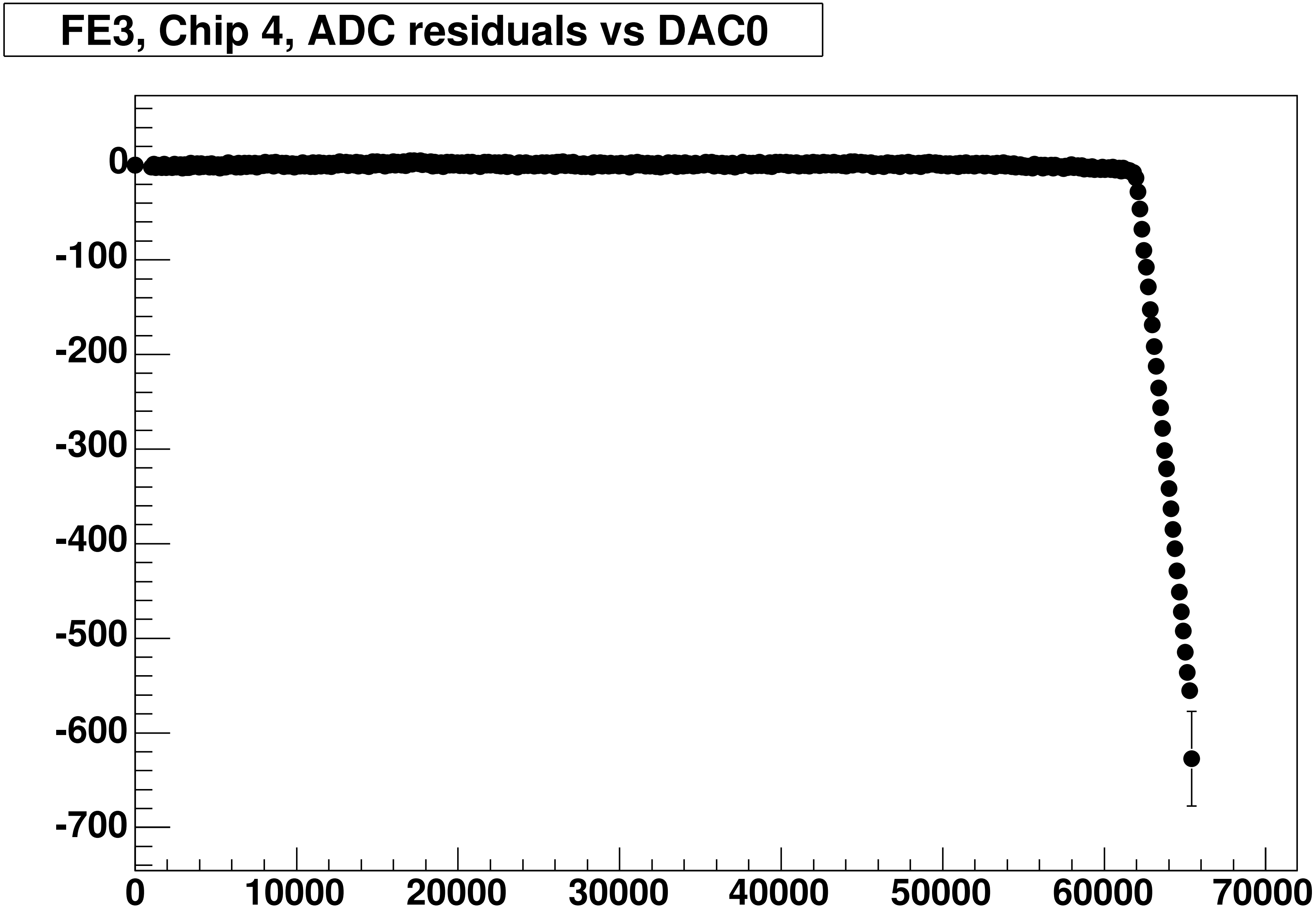


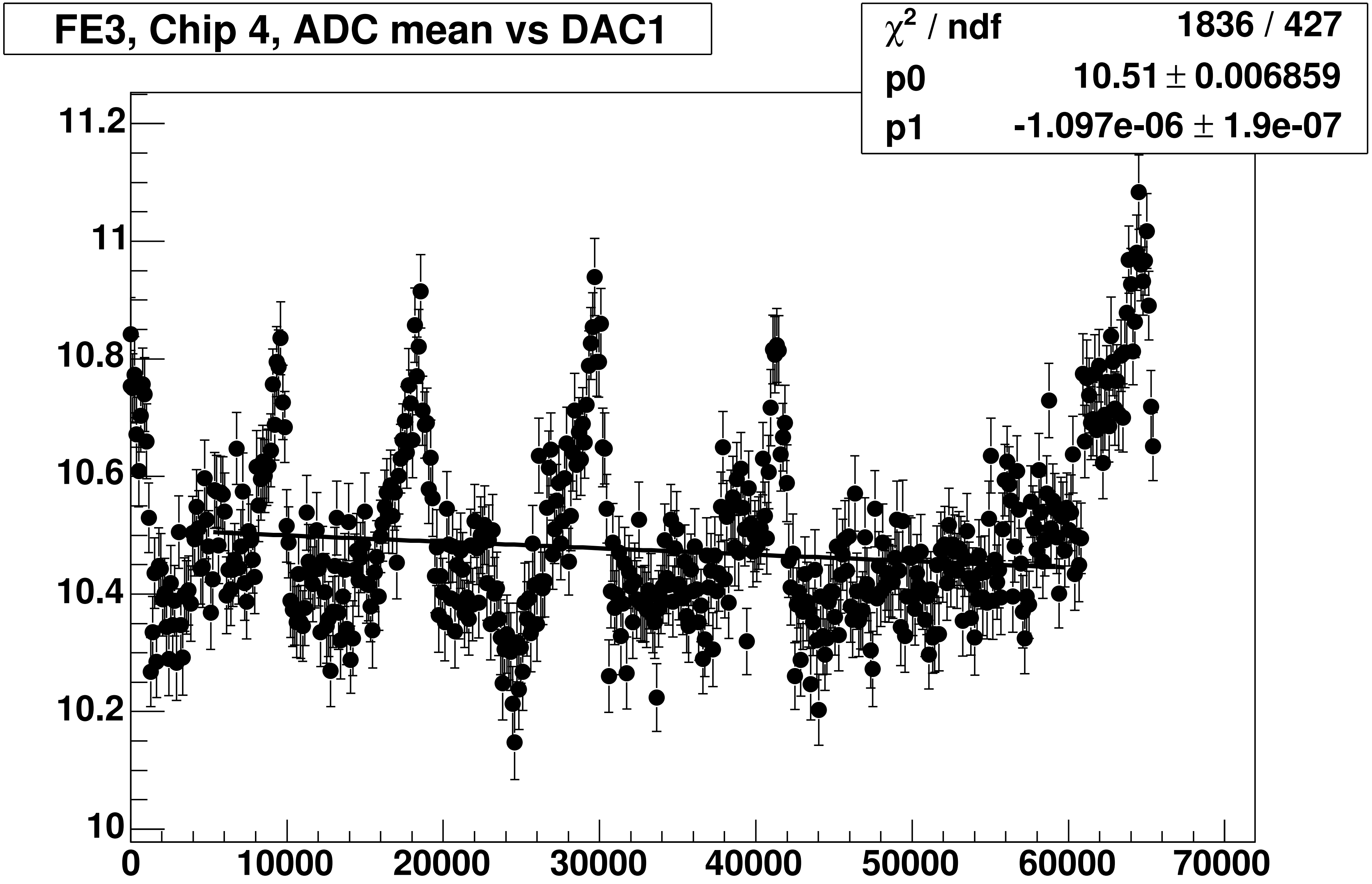
FE3, Chip 3, ADC residuals vs DAC1
1.2
1
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
0
10000
20000
30000
40000
50000
60000
70000

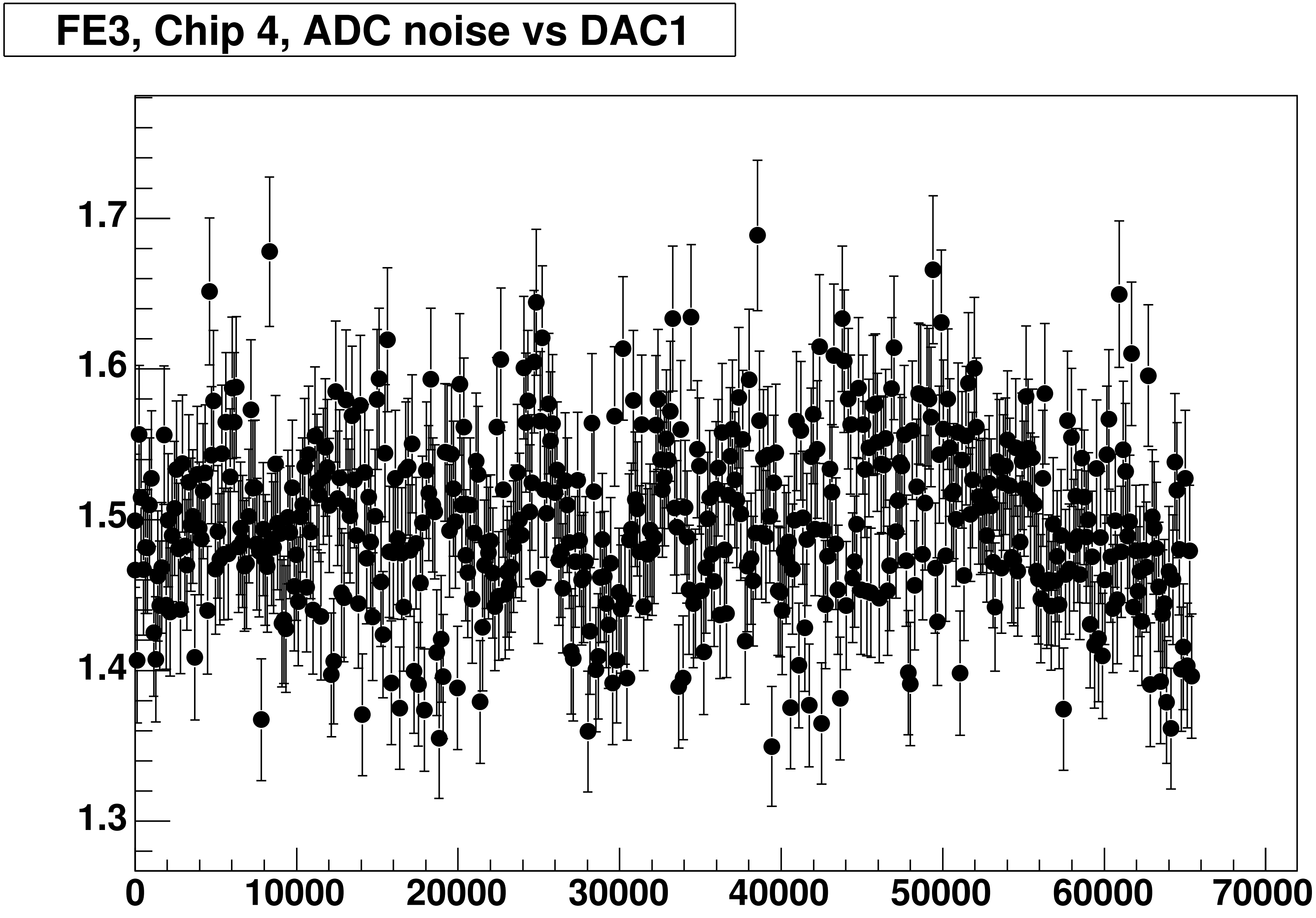


FE3, Chip 4, ADC mean vs DAC0
χ2 / ndf 7.16e+04 / 427
p0 13.73 ± 0.01217
p1 0.4513 ± 3.789e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000

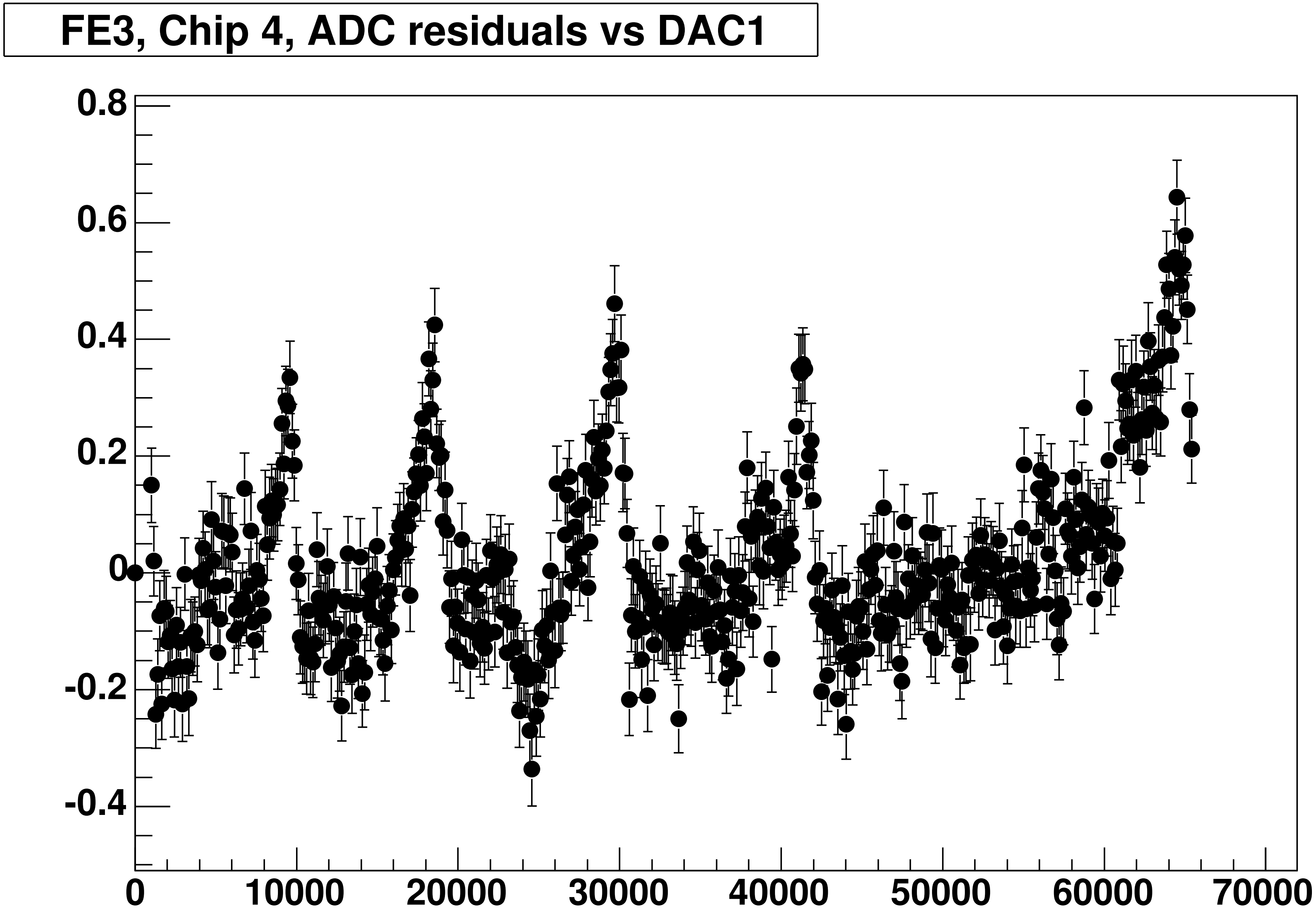

FE3, Chip 4, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000
70000


FE3, Chip 4, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
-700
0
10000
20000
30000
40000
50000
60000
70000

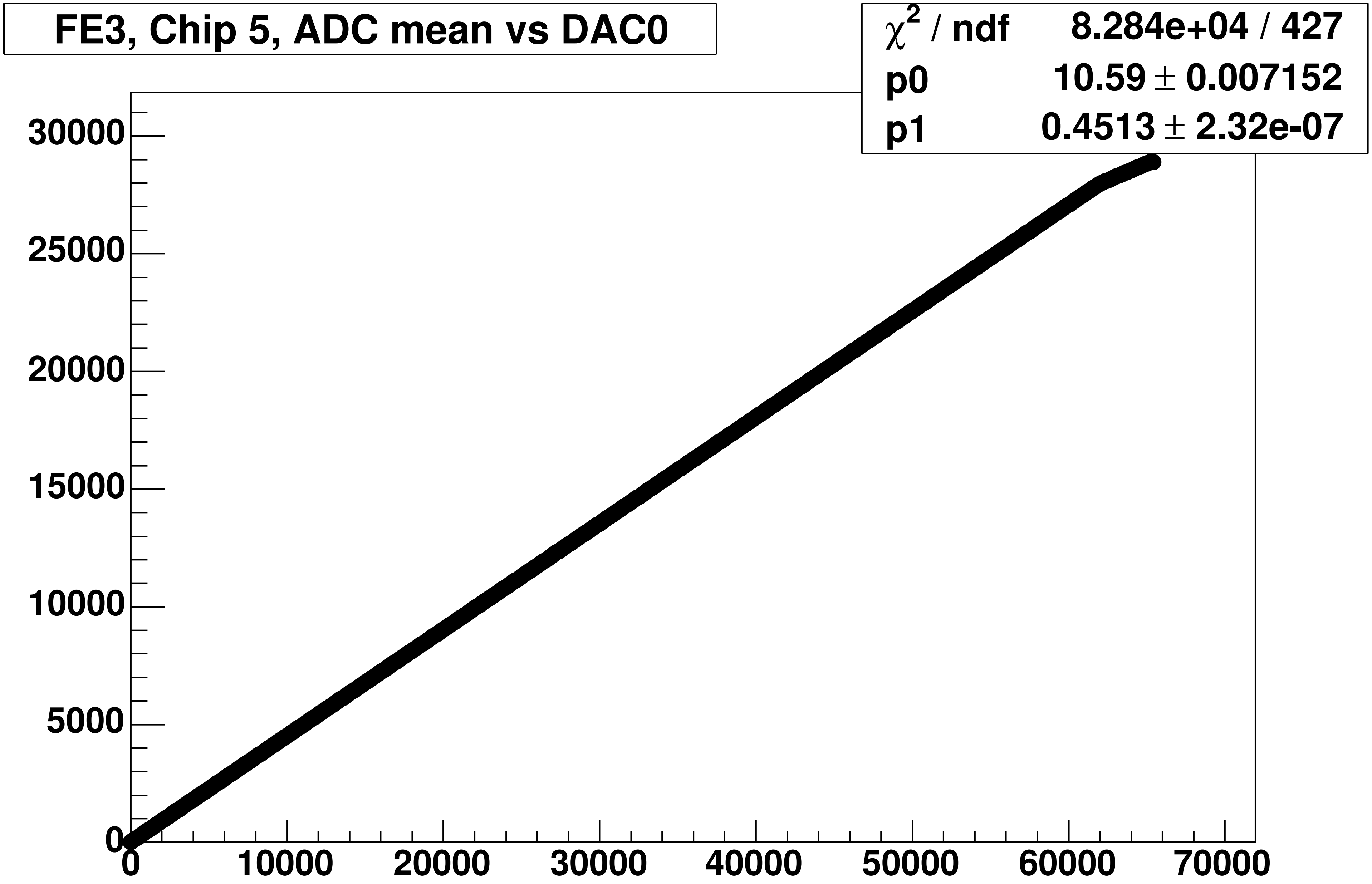

FE3, Chip 4, ADC mean vs DAC1
$\chi^2$ / ndf 1836 / 427
p0 10.51 ± 0.006859
p1 -1.097e-06 ± 1.9e-07
11.2
11
10.8
10.6
10.4
10.2
10
0
10000
20000
30000
40000
50000
60000
70000



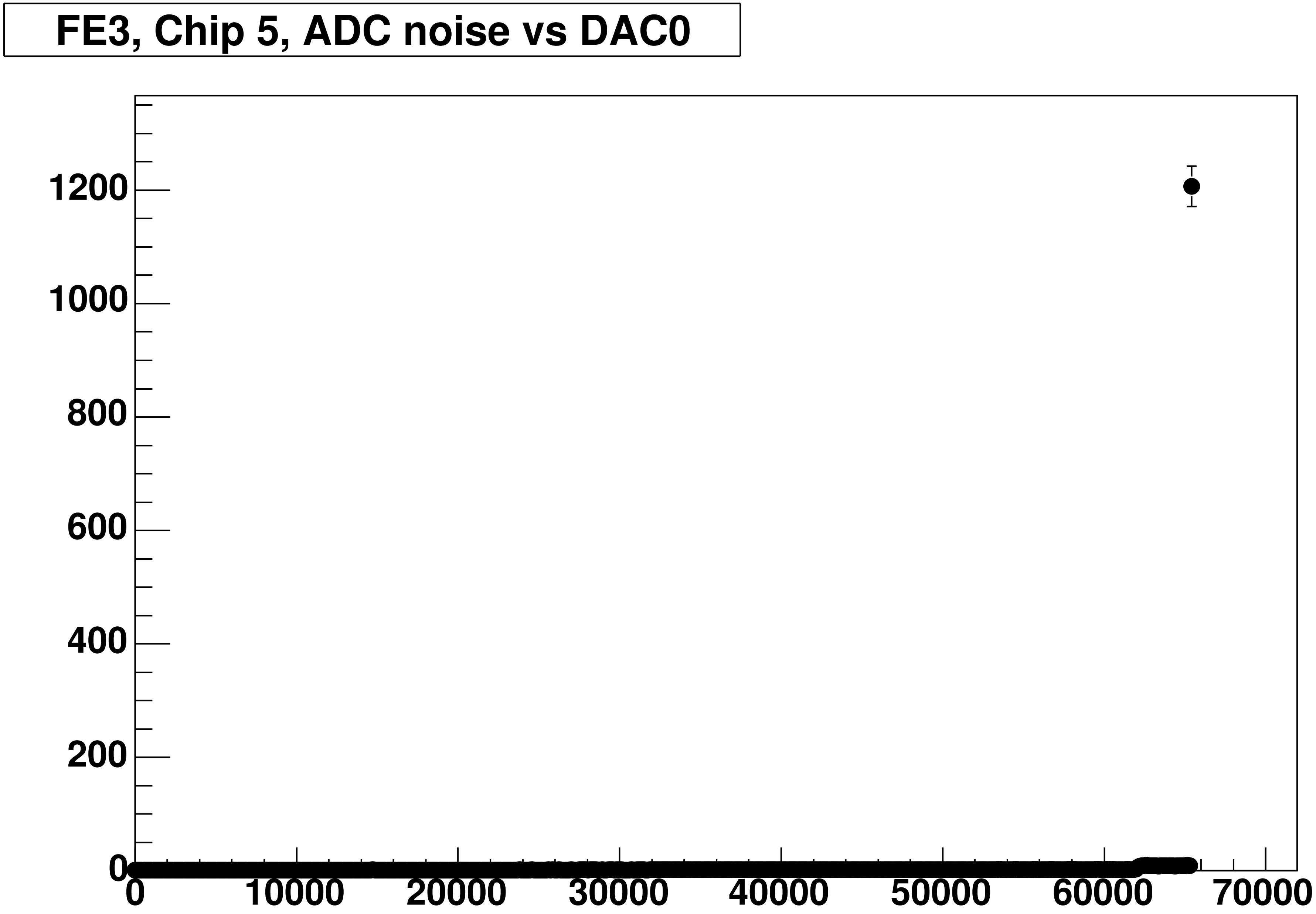
FE3, Chip 4, ADC noise vs DAC1
1.7
1.6
1.5
1.4
1.3
0
10000
20000
30000
40000
50000
60000
70000

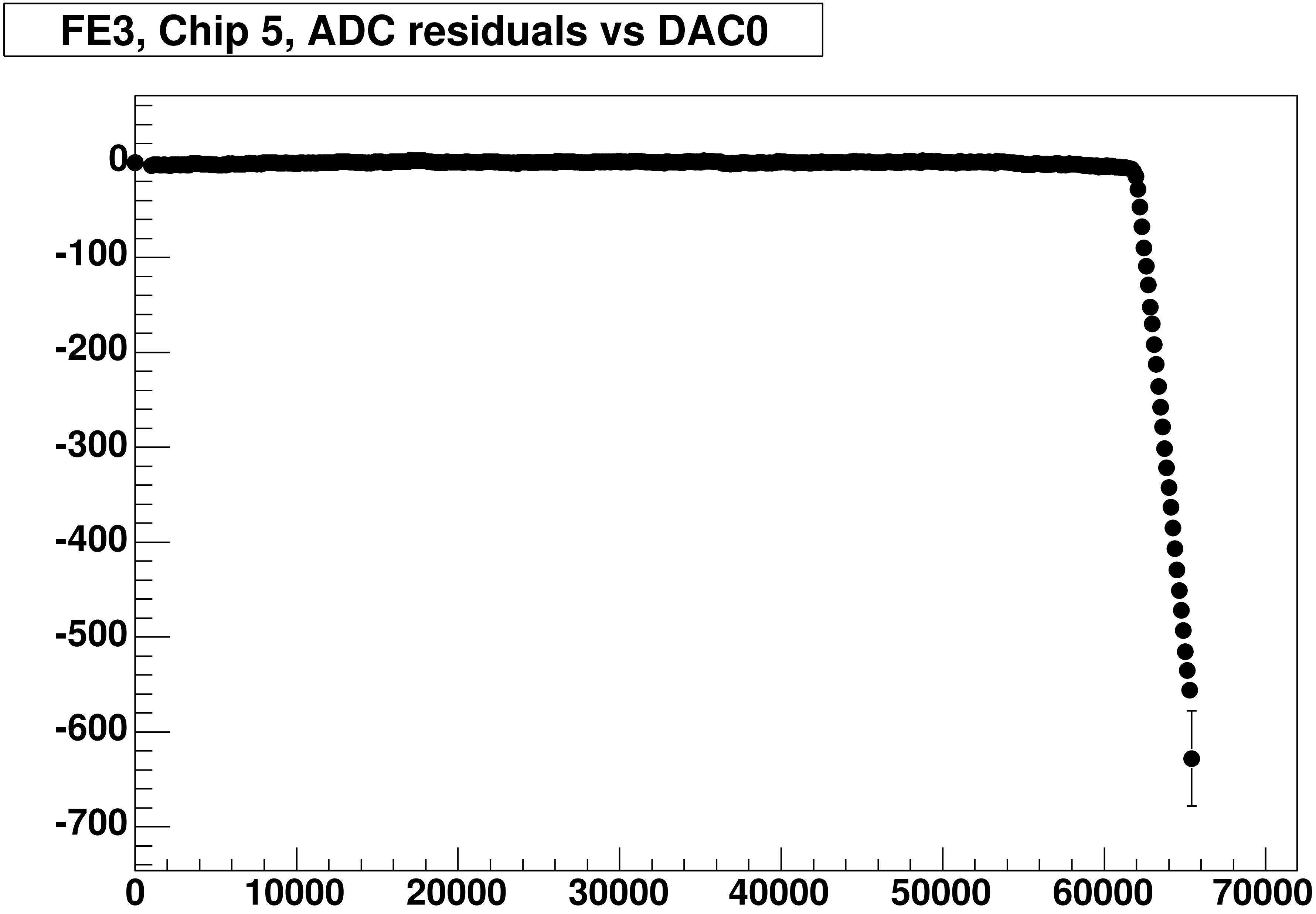


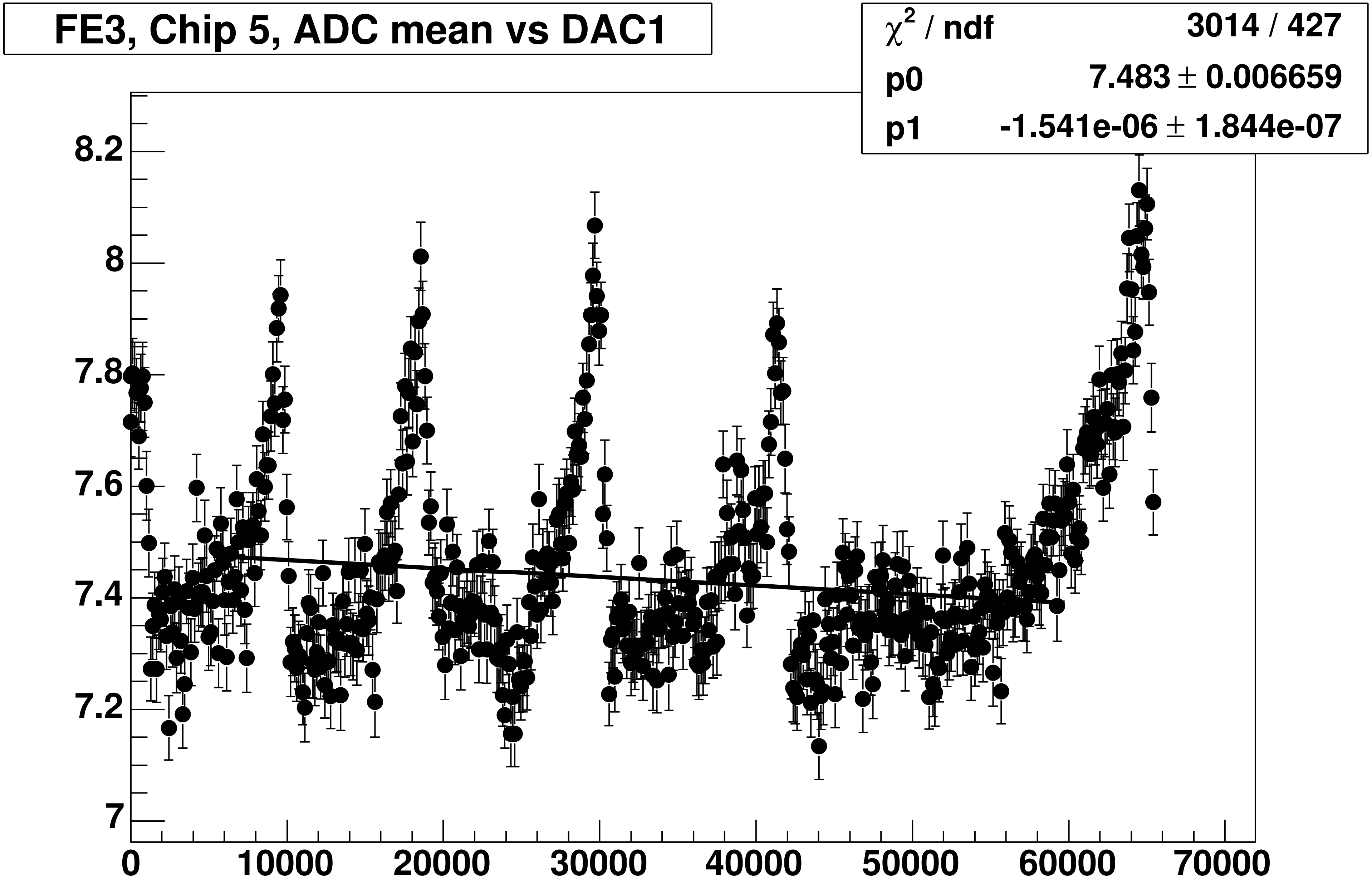
FE3, Chip 4, ADC residuals vs DAC1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000
70000



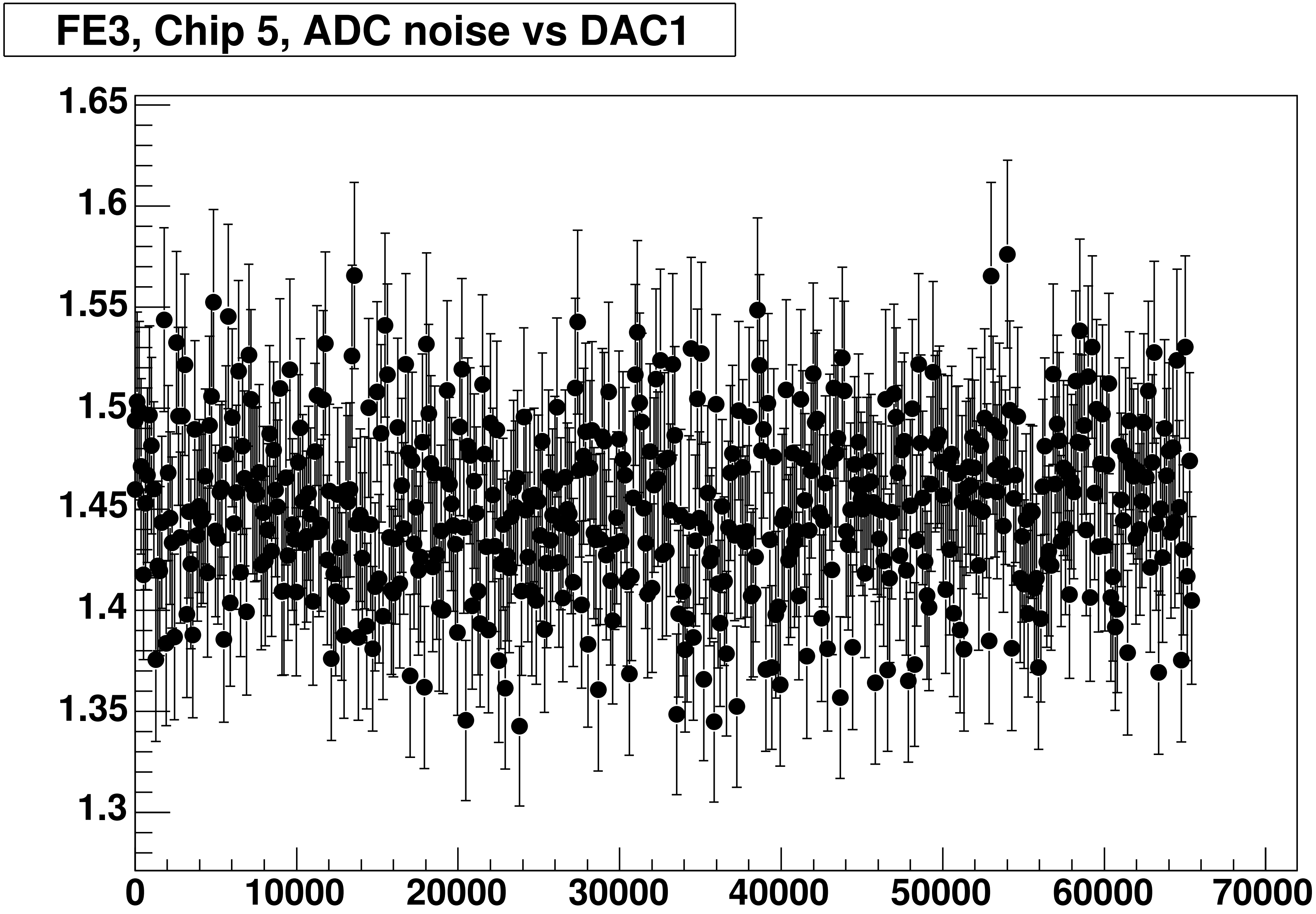
FE3, Chip 5, ADC mean vs DAC0
χ² / ndf 8.284e+04 / 427
p0 10.59 ± 0.007152
p1 0.4513 ± 2.32e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

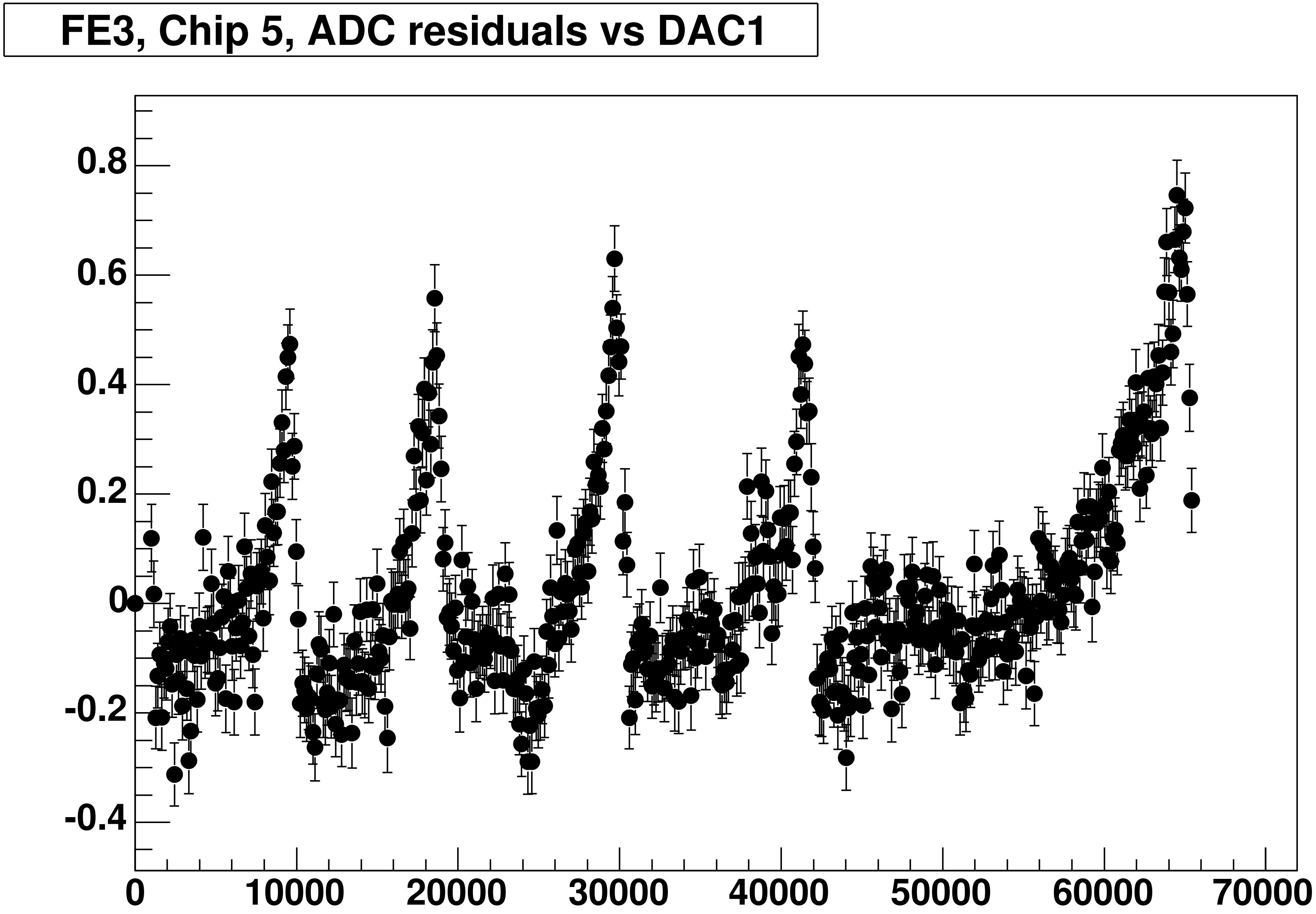

FE3, Chip 5, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000
70000

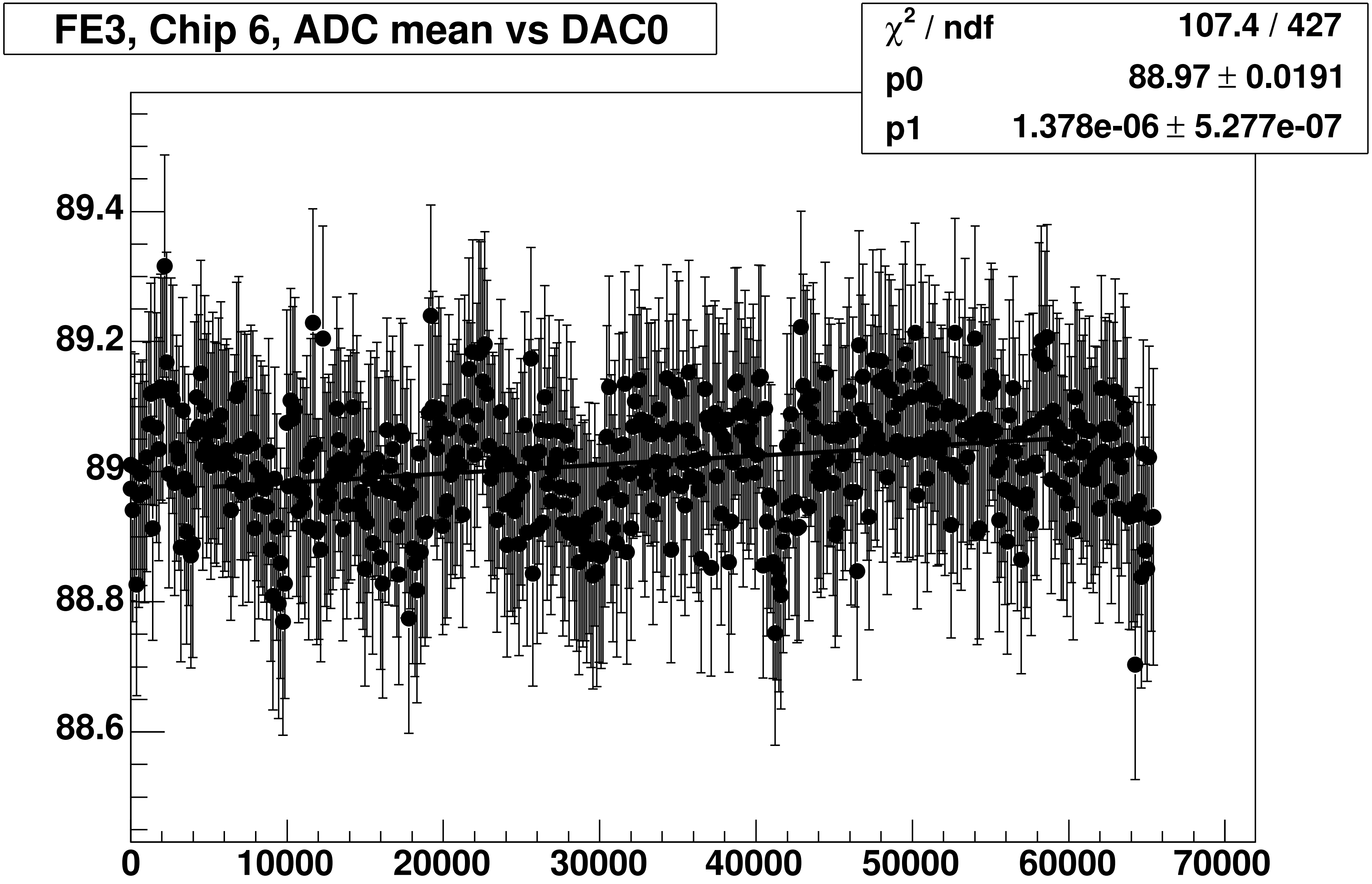

FE3, Chip 5, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
-700
0
10000
20000
30000
40000
50000
60000
70000

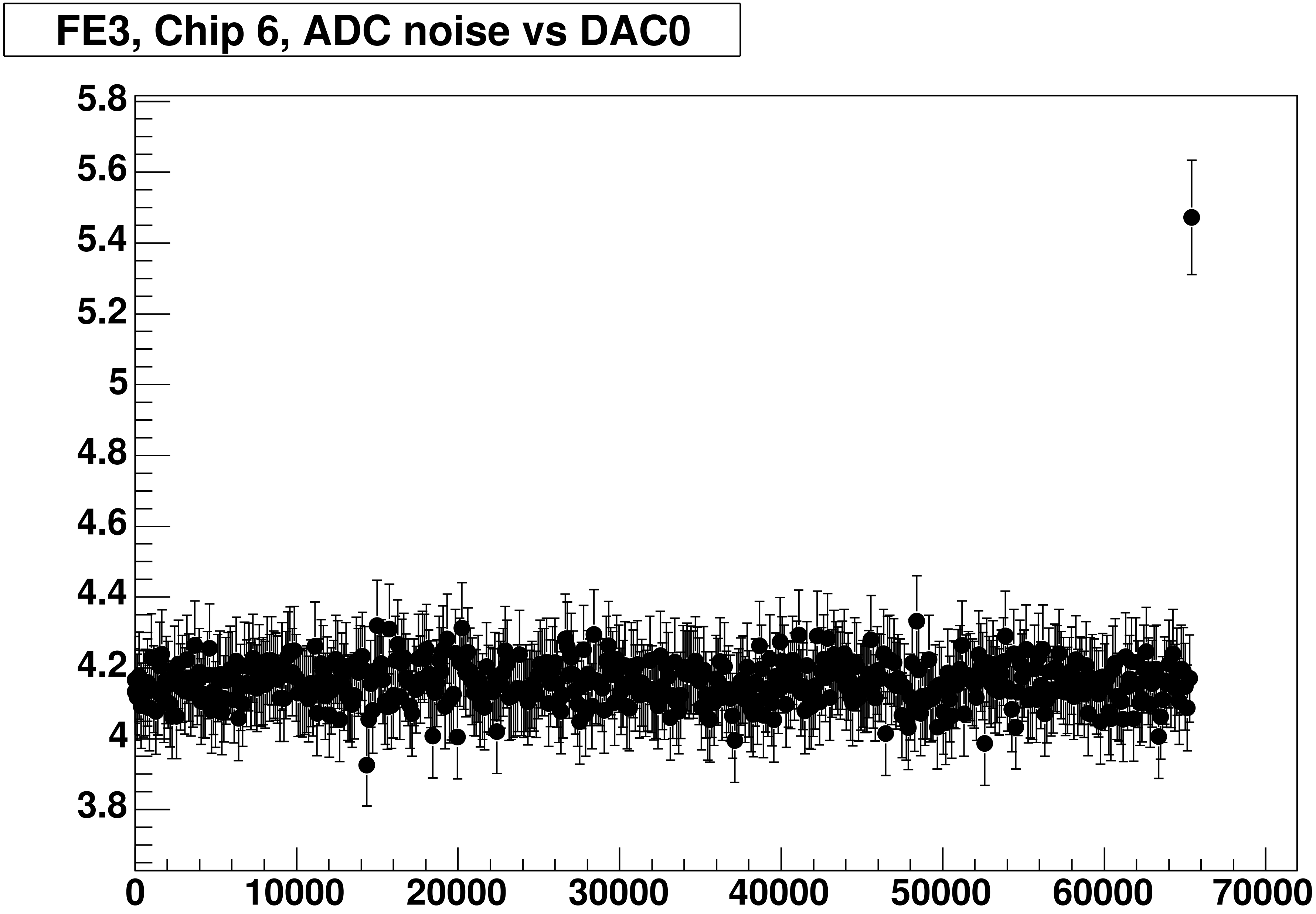


FE3, Chip 5, ADC mean vs DAC1
$\chi^2$ / ndf 3014 / 427
p0 7.483 ± 0.006659
p1 -1.541e-06 ± 1.844e-07
8.2
8
7.8
7.6
7.4
7.2
7
0
10000
20000
30000
40000
50000
60000
70000

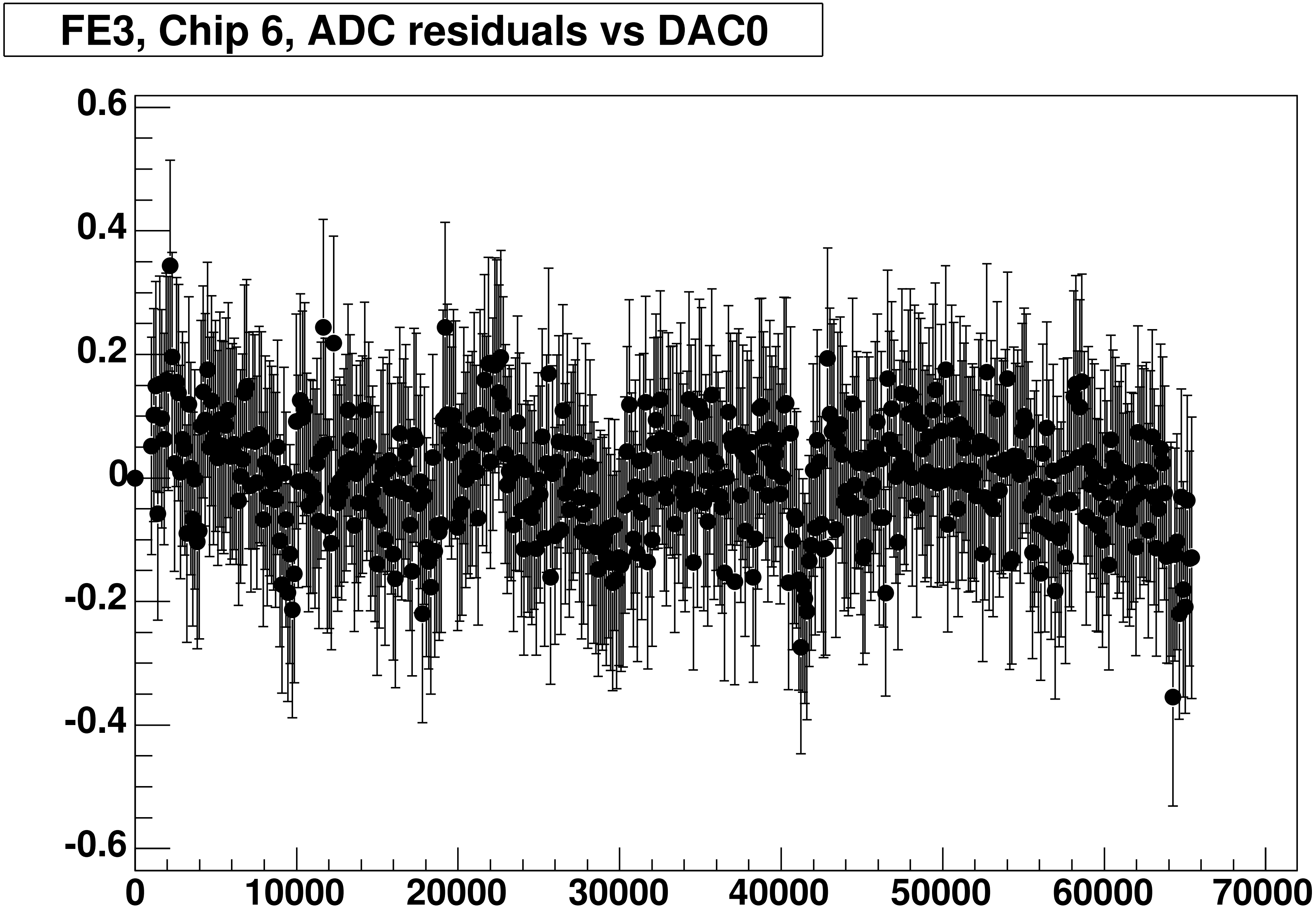

FE3, Chip 5, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000
70000

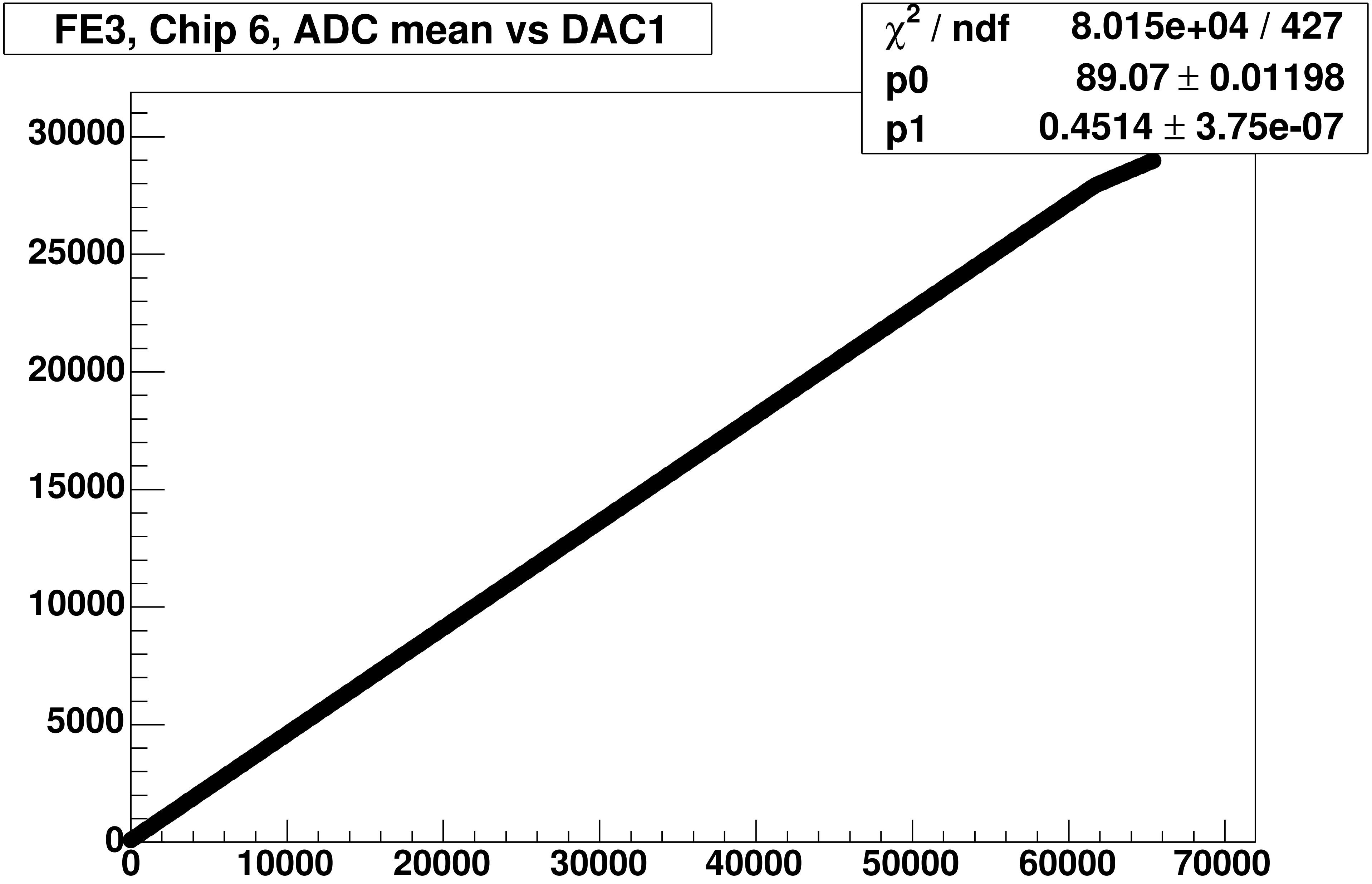

FE3, Chip 5, ADC residuals vs DAC1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000
70000


FE3, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 107.4 / 427
p0 88.97 ± 0.0191
p1 1.378e-06 ± 5.277e-07
89.4
89.2
89
88.8
88.6
0
10000
20000
30000
40000
50000
60000
70000

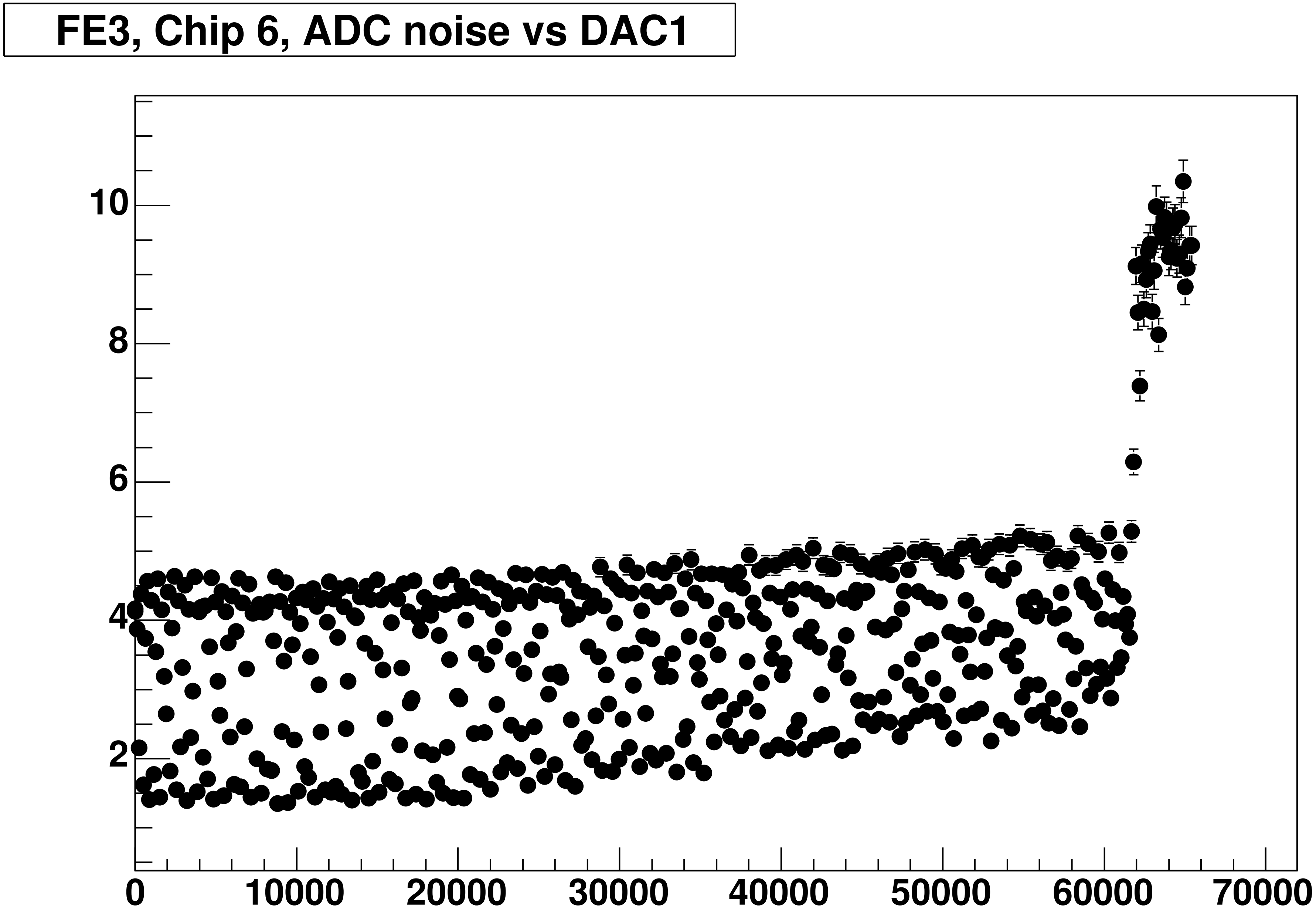


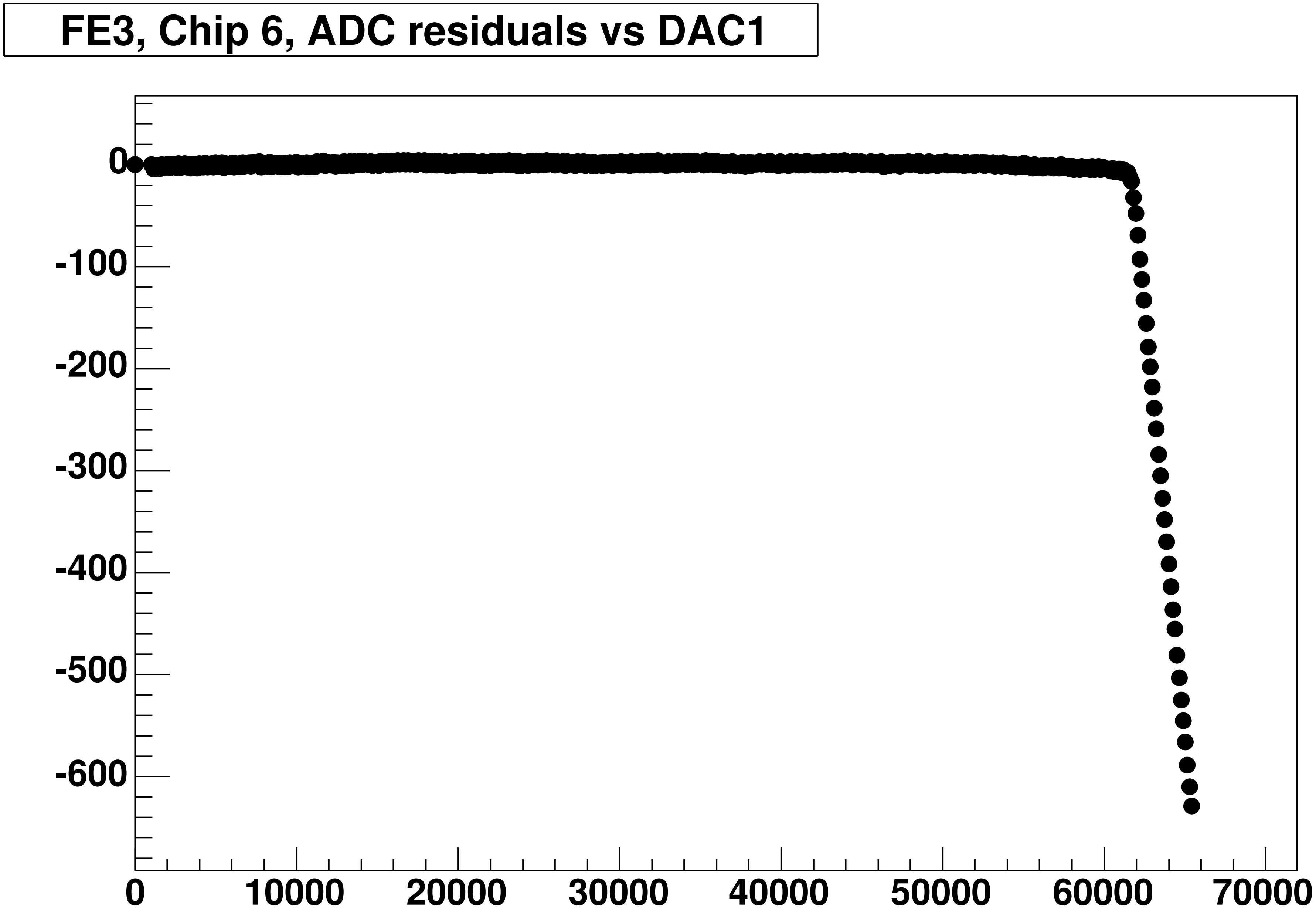
FE3, Chip 6, ADC noise vs DAC0
5.8
5.6
5.4
5.2
5
4.8
4.6
4.4
4.2
4
3.8
0
10000
20000
30000
40000
50000
60000
70000

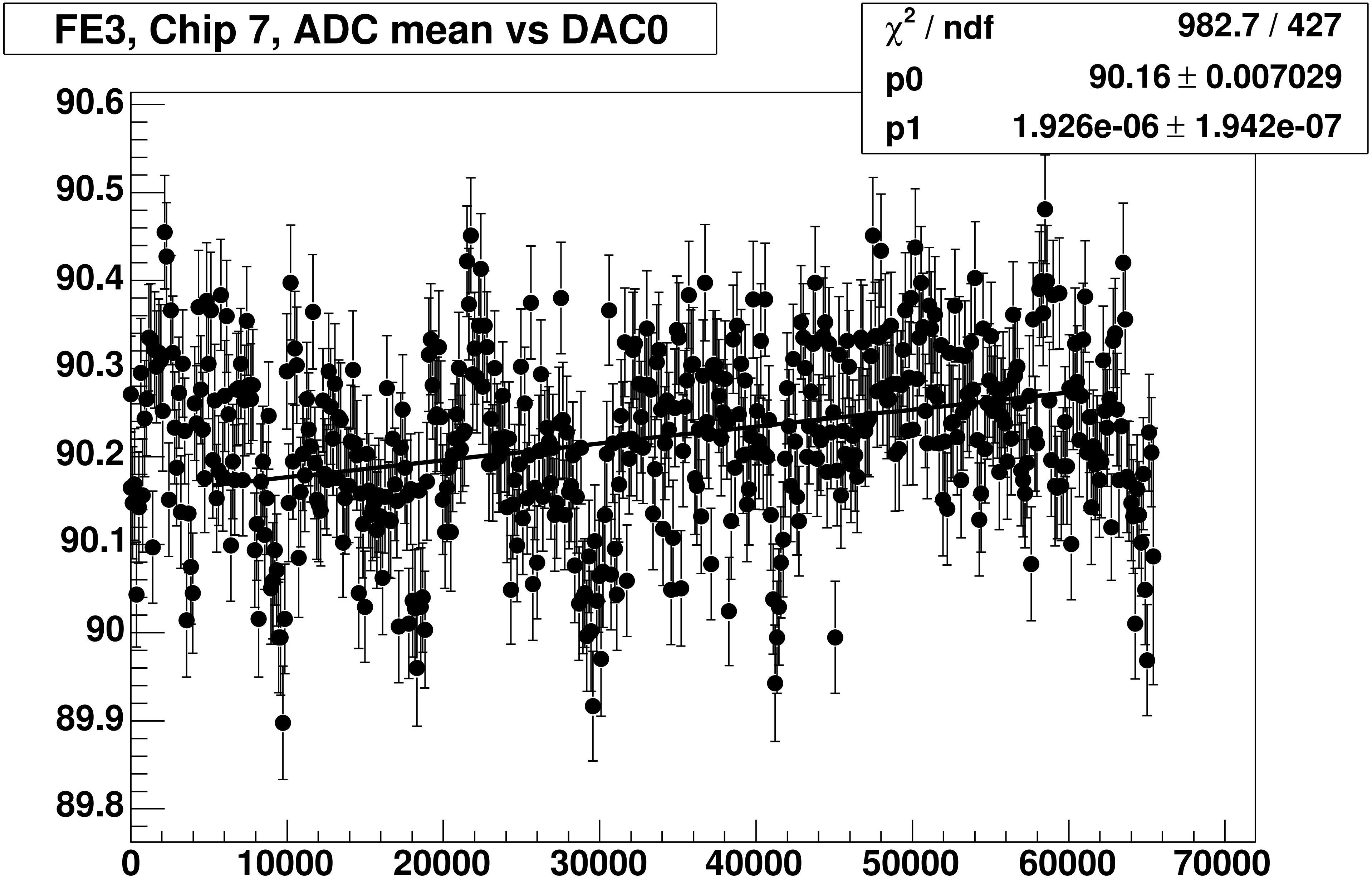

FE3, Chip 6, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000

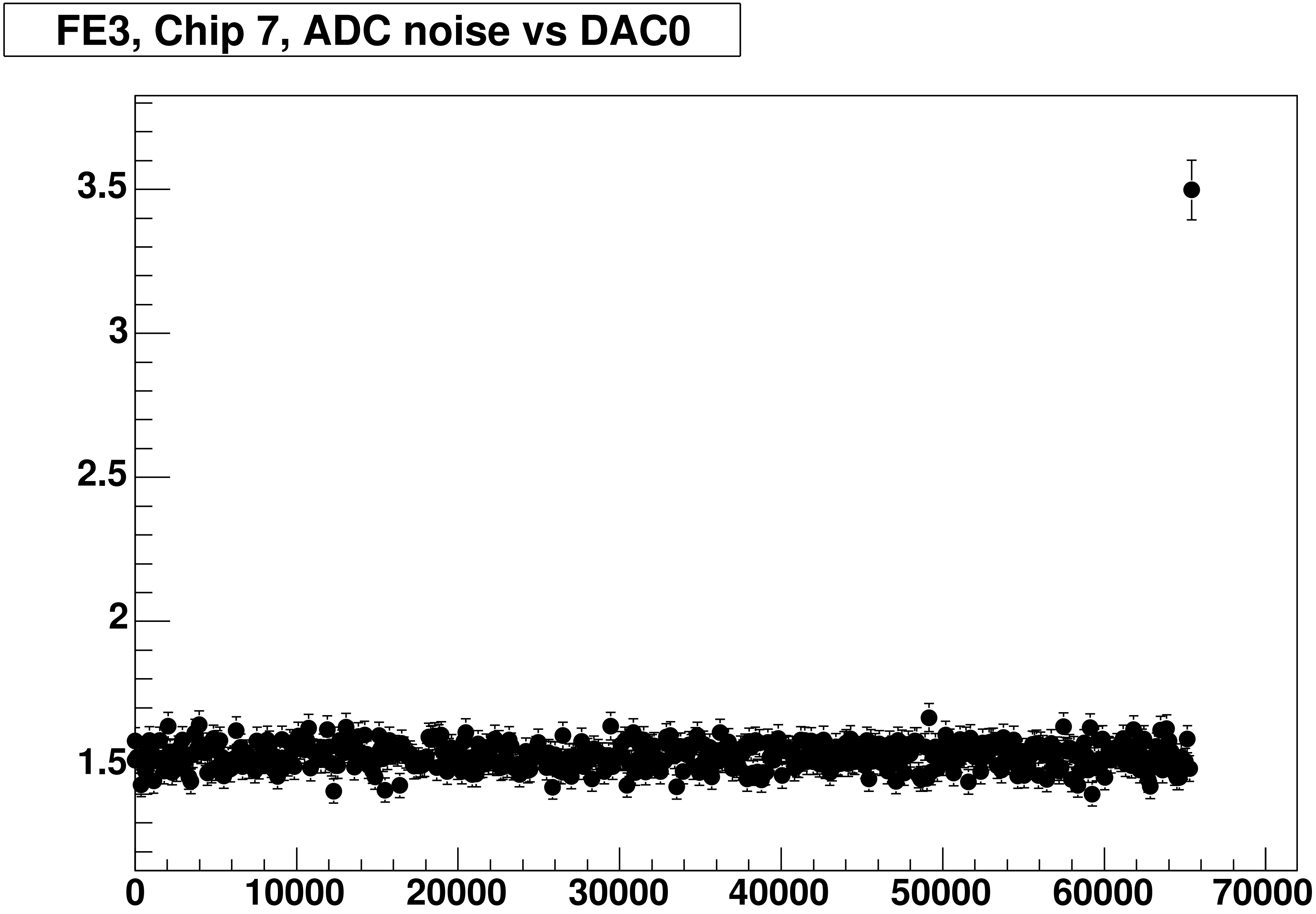


FE3, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 8.015e+04 / 427
p0 89.07 ± 0.01198
p1 0.4514 ± 3.75e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

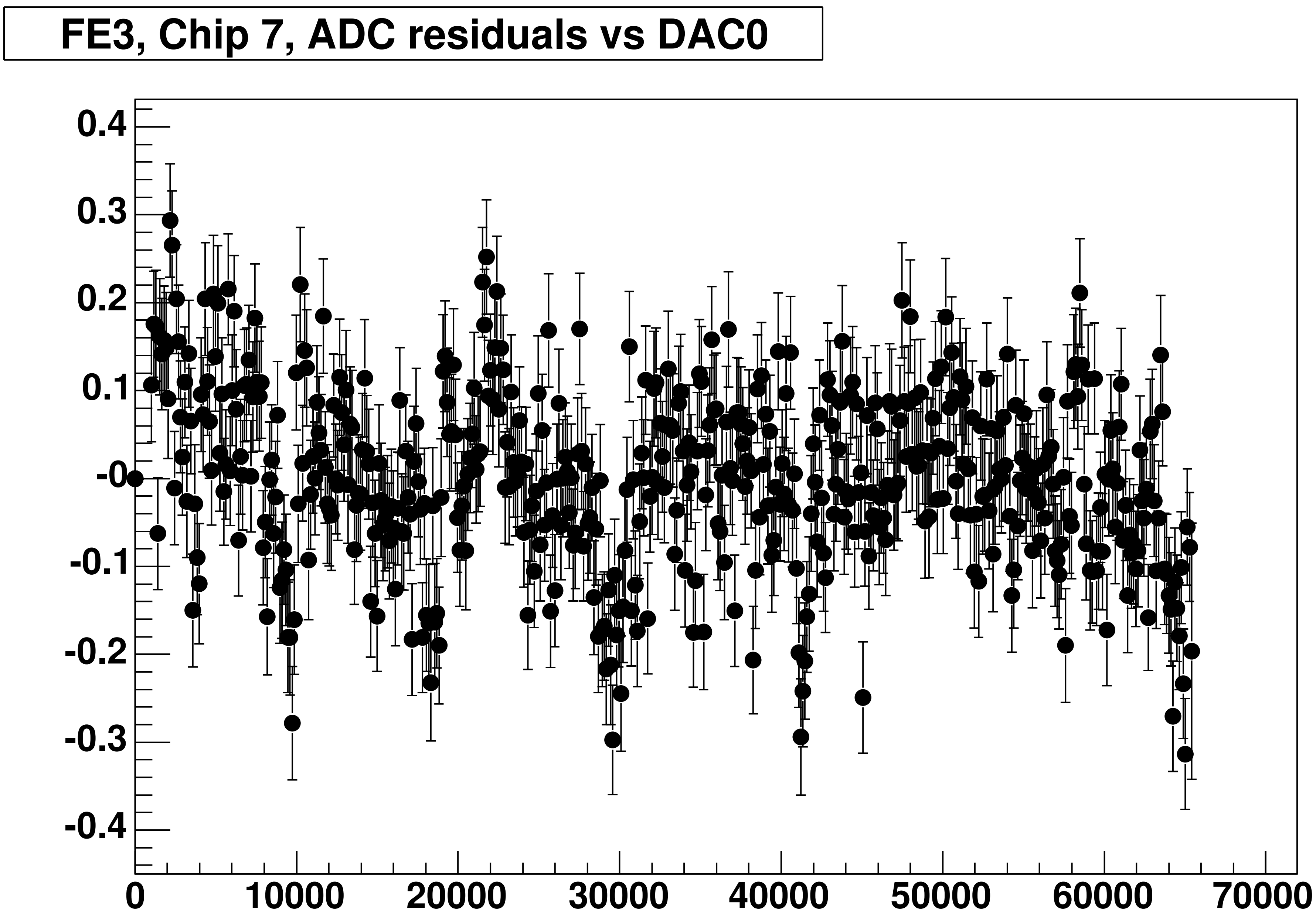

FE3, Chip 6, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000


FE3, Chip 6, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

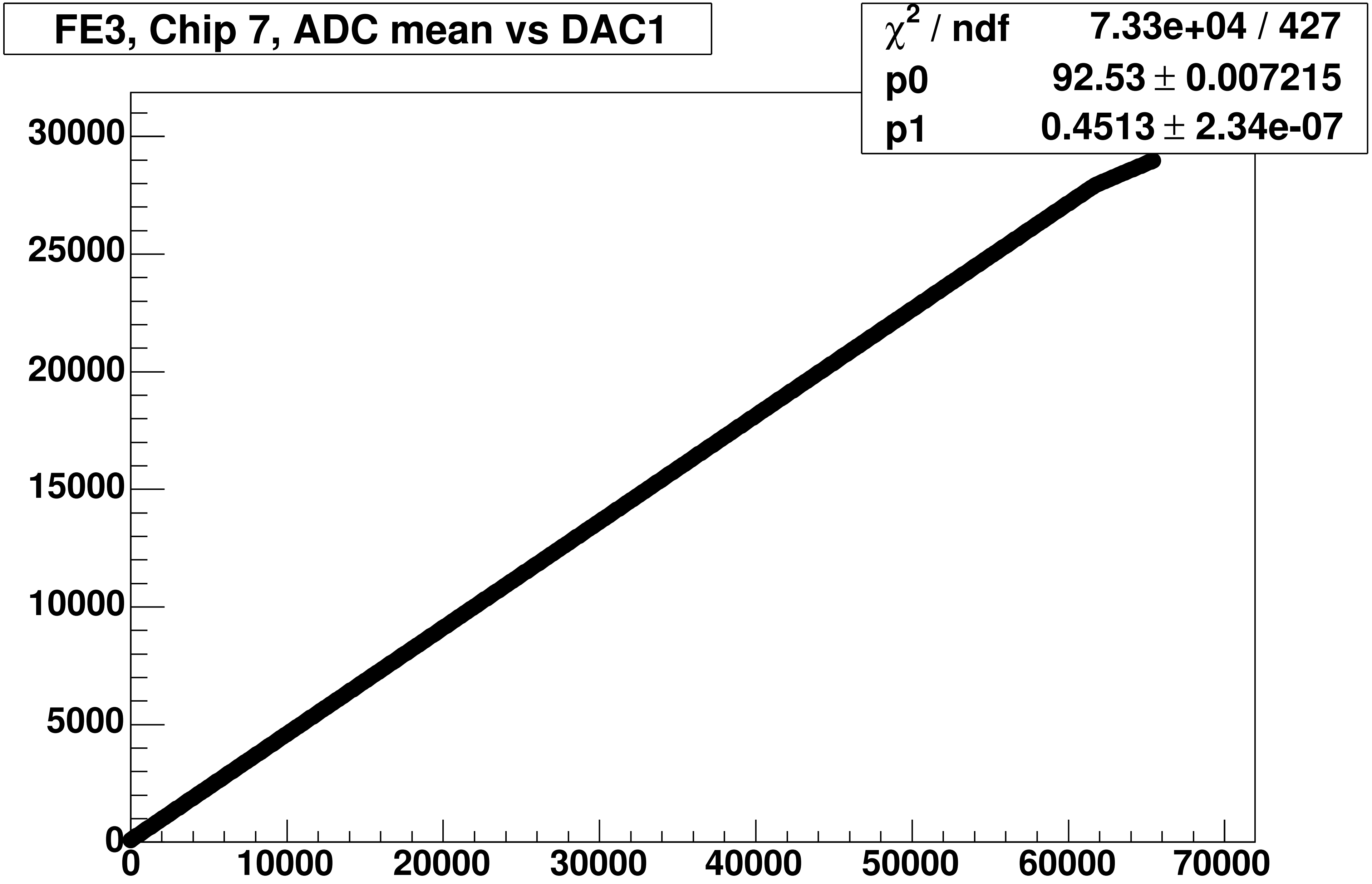

FE3, Chip 7, ADC mean vs DAC0
$\chi^2$ / ndf 982.7 / 427
p0 90.16 ± 0.007029
p1 1.926e-06 ± 1.942e-07
90.6
90.5
90.4
90.3
90.2
90.1
90
89.9
89.8
0
10000
20000
30000
40000
50000
60000
70000



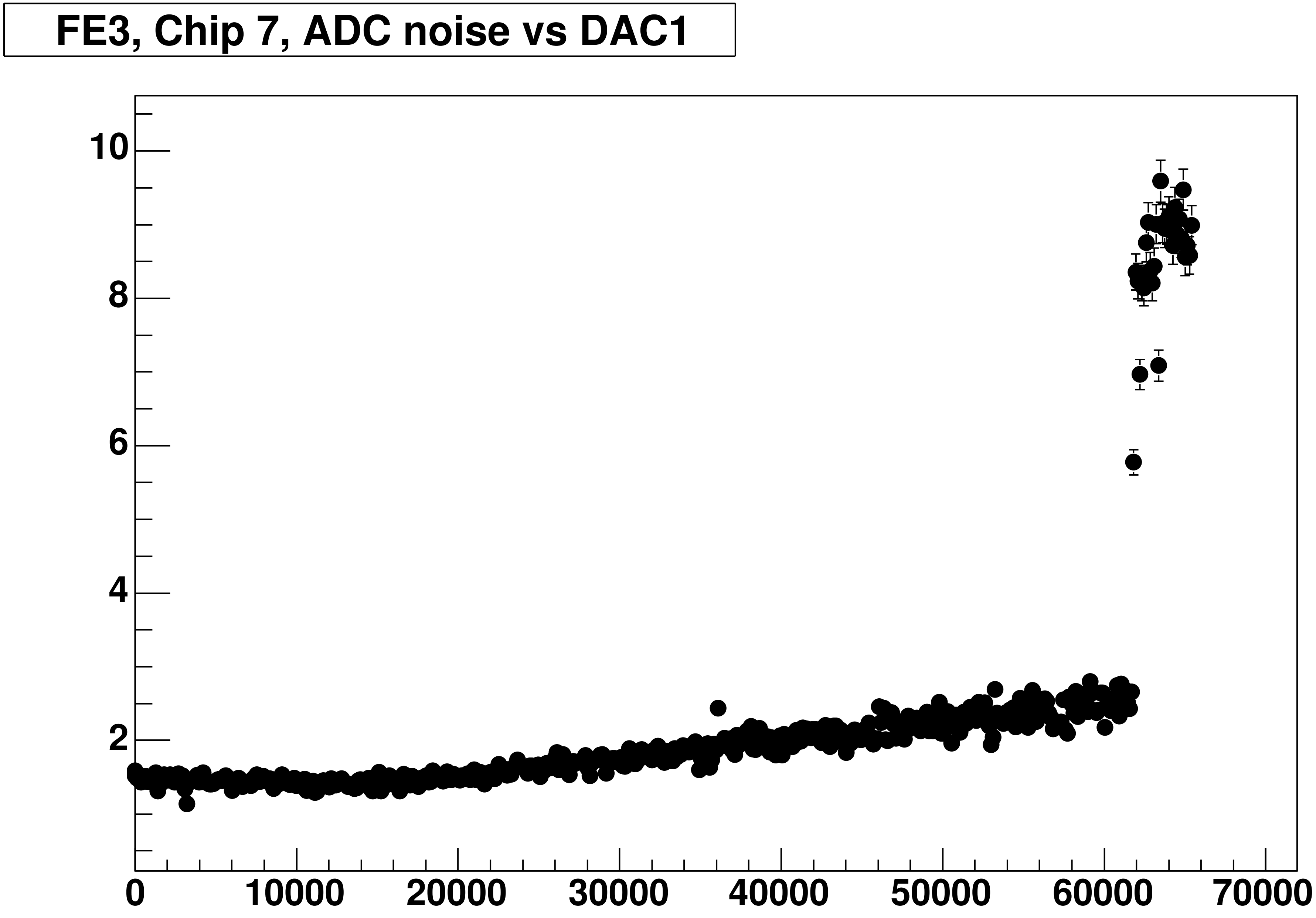
FE3, Chip 7, ADC noise vs DAC0
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000
70000



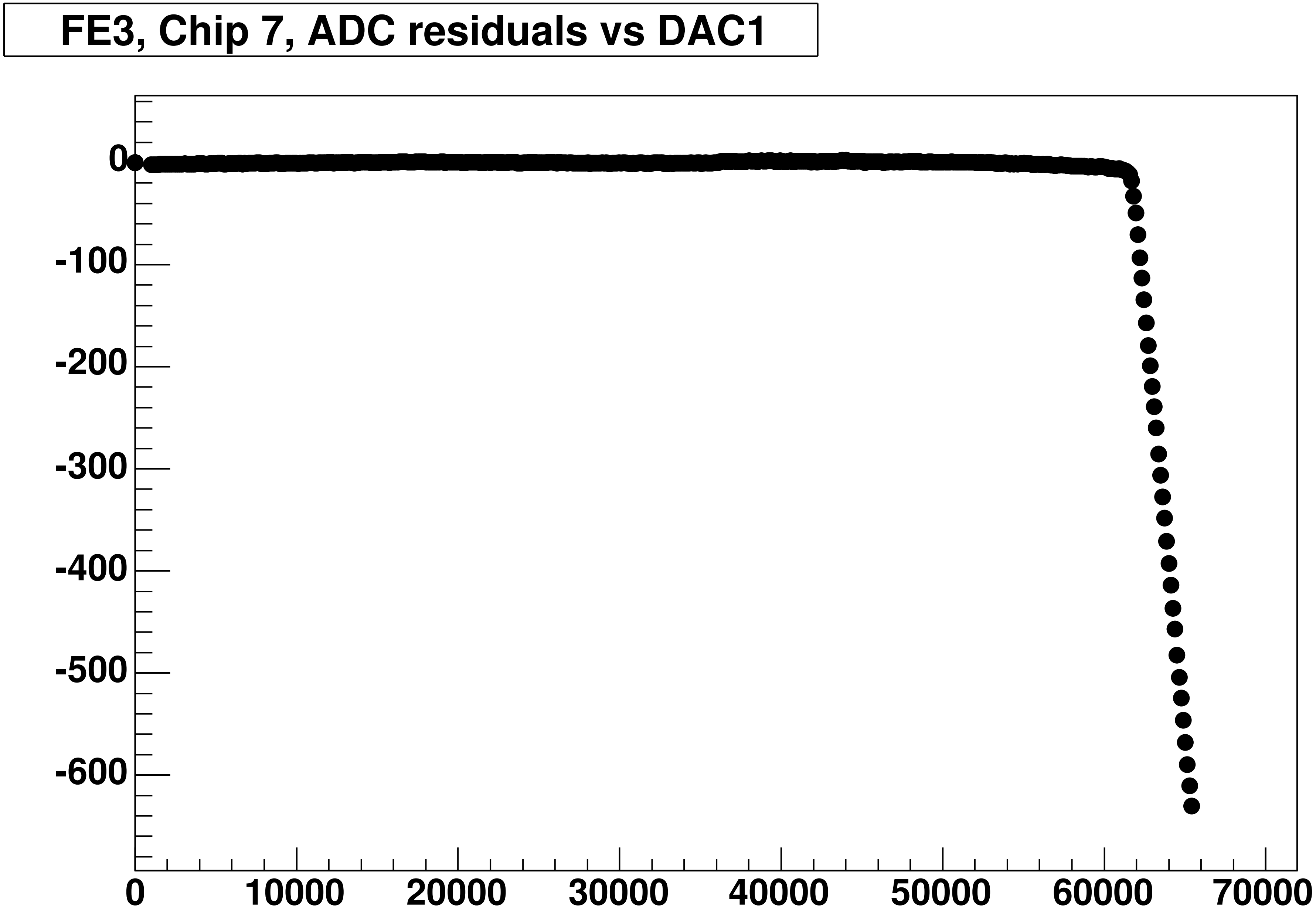
FE3, Chip 7, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000
70000

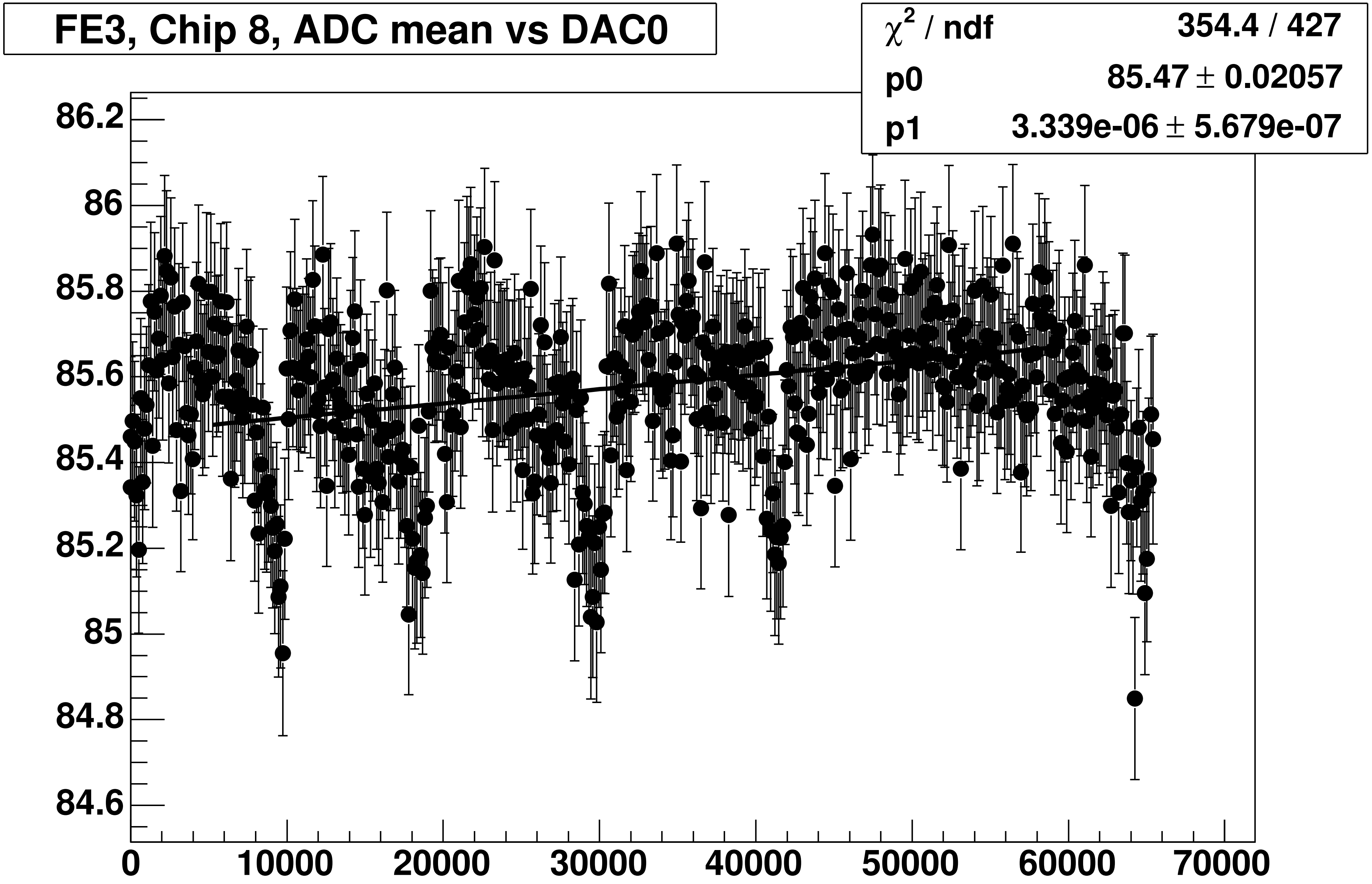


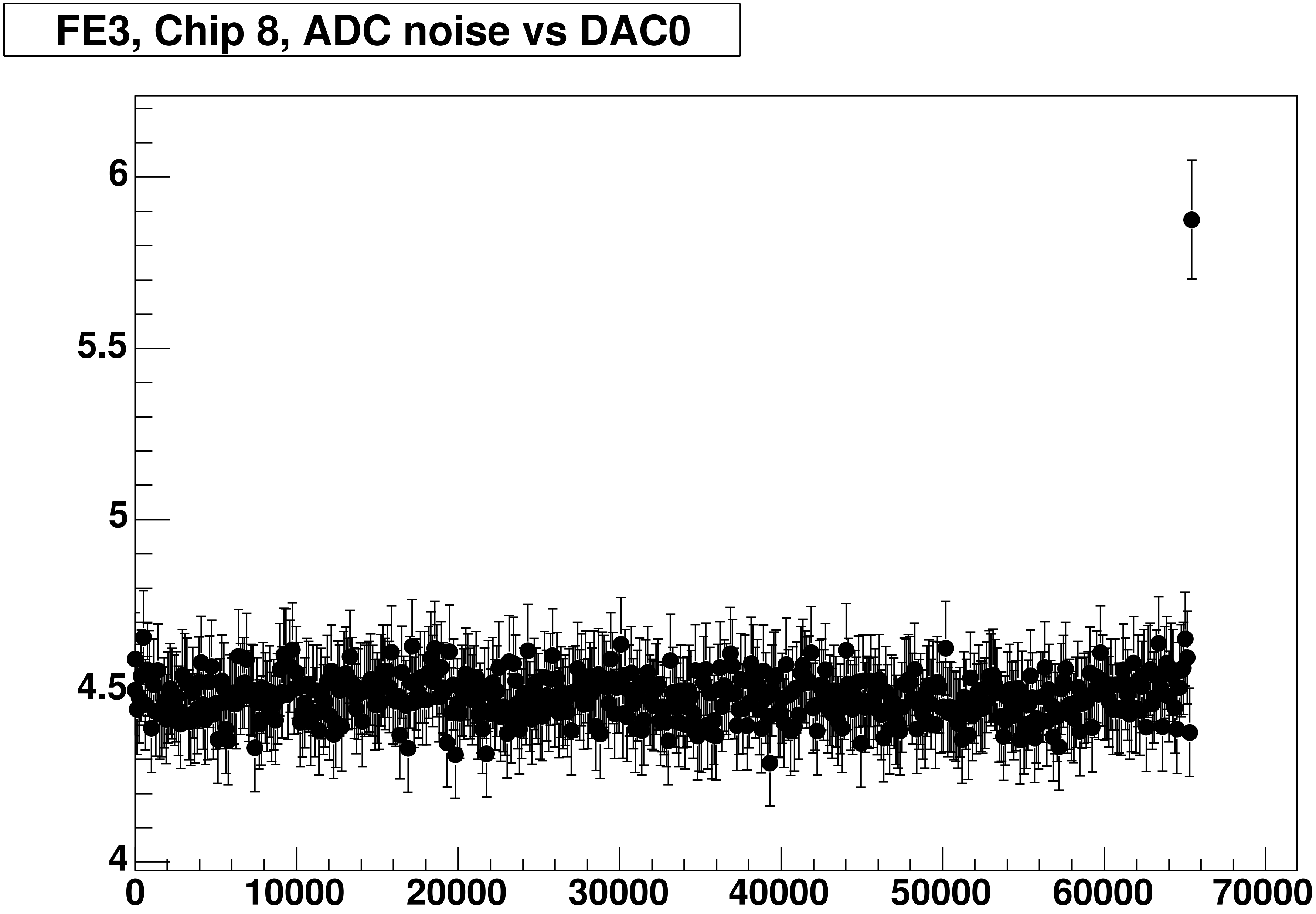
FE3, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 7.33e+04 / 427
p0 92.53 ± 0.007215
p1 0.4513 ± 2.34e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

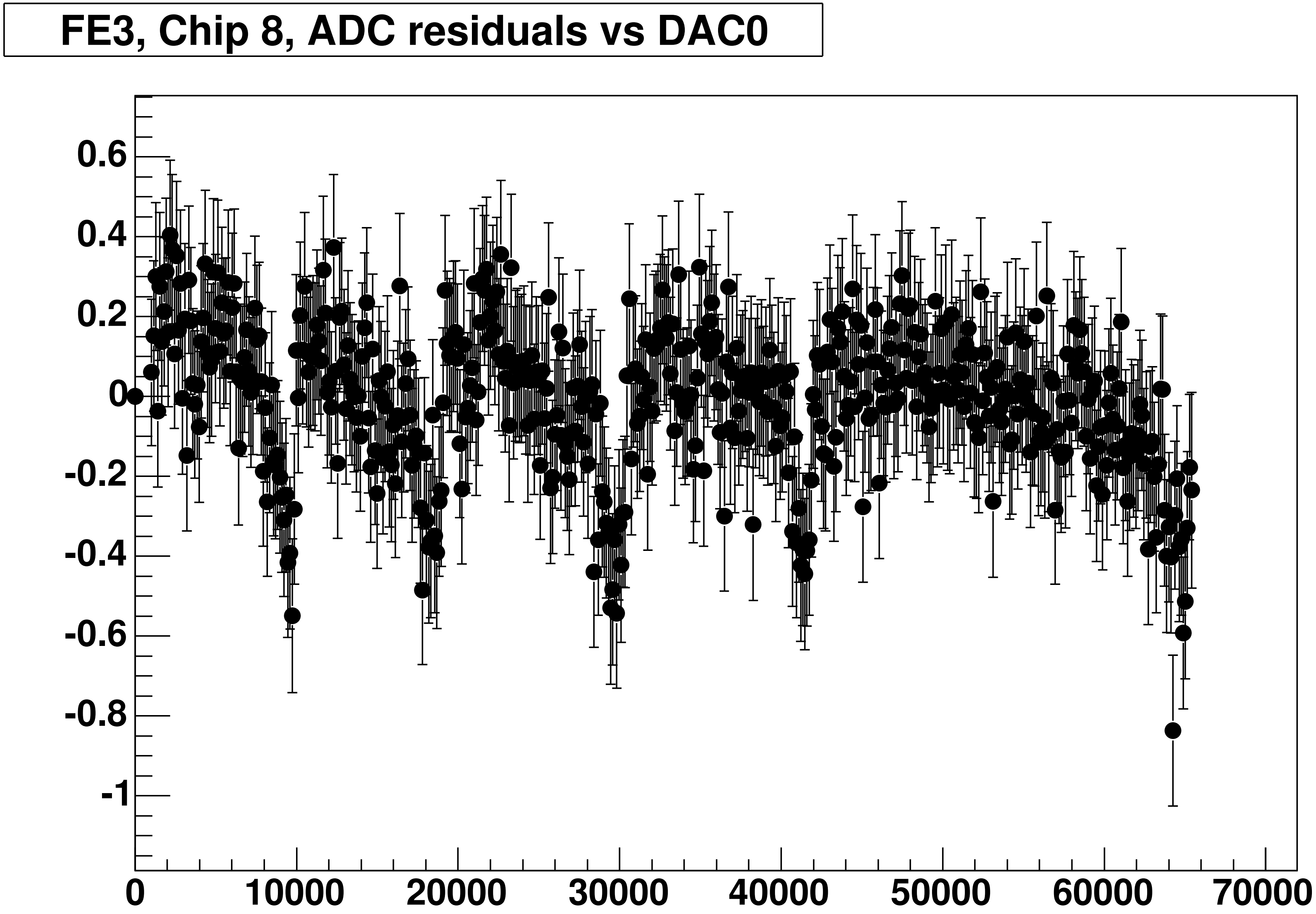


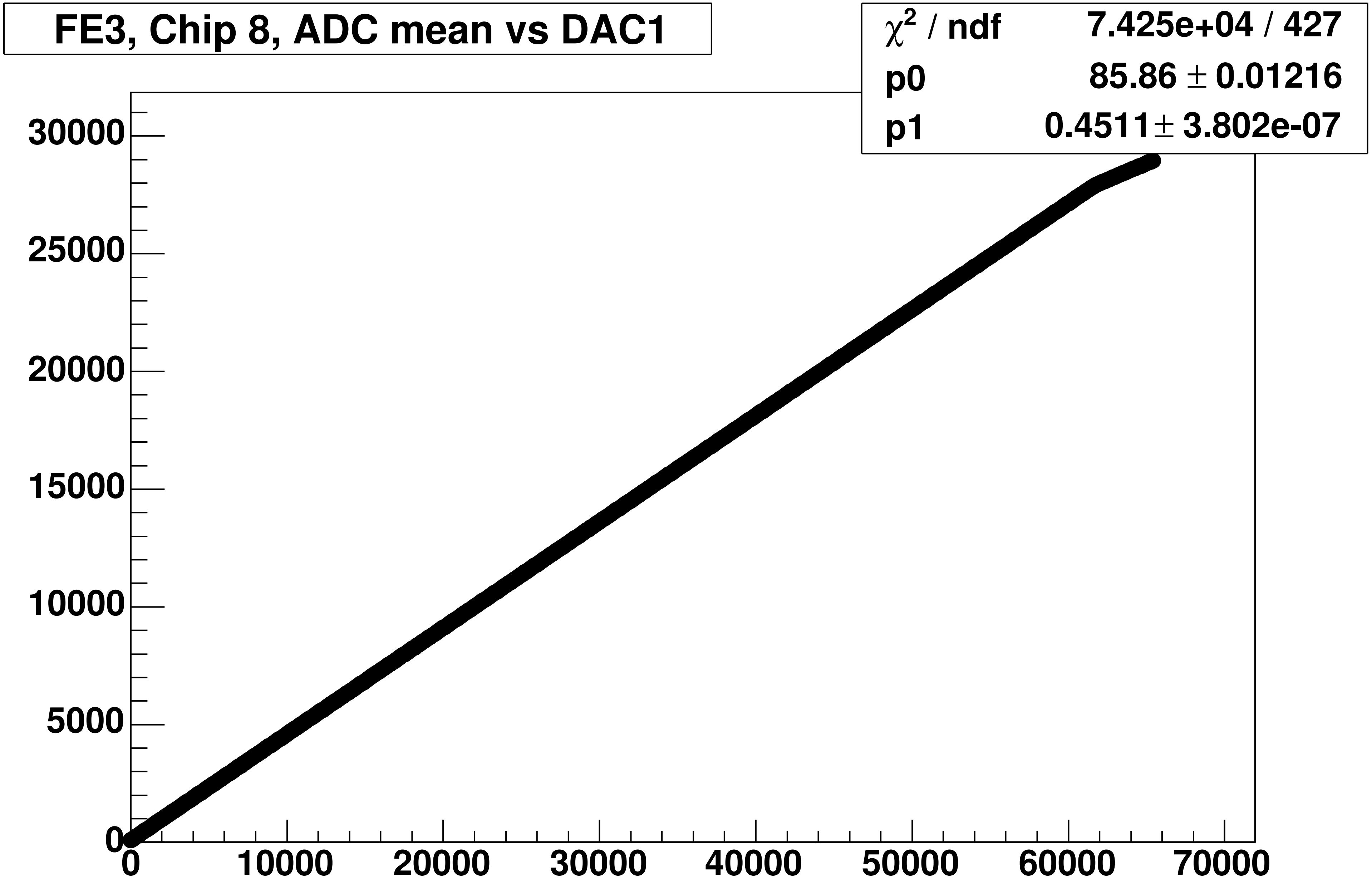
FE3, Chip 7, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000


FE3, Chip 7, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

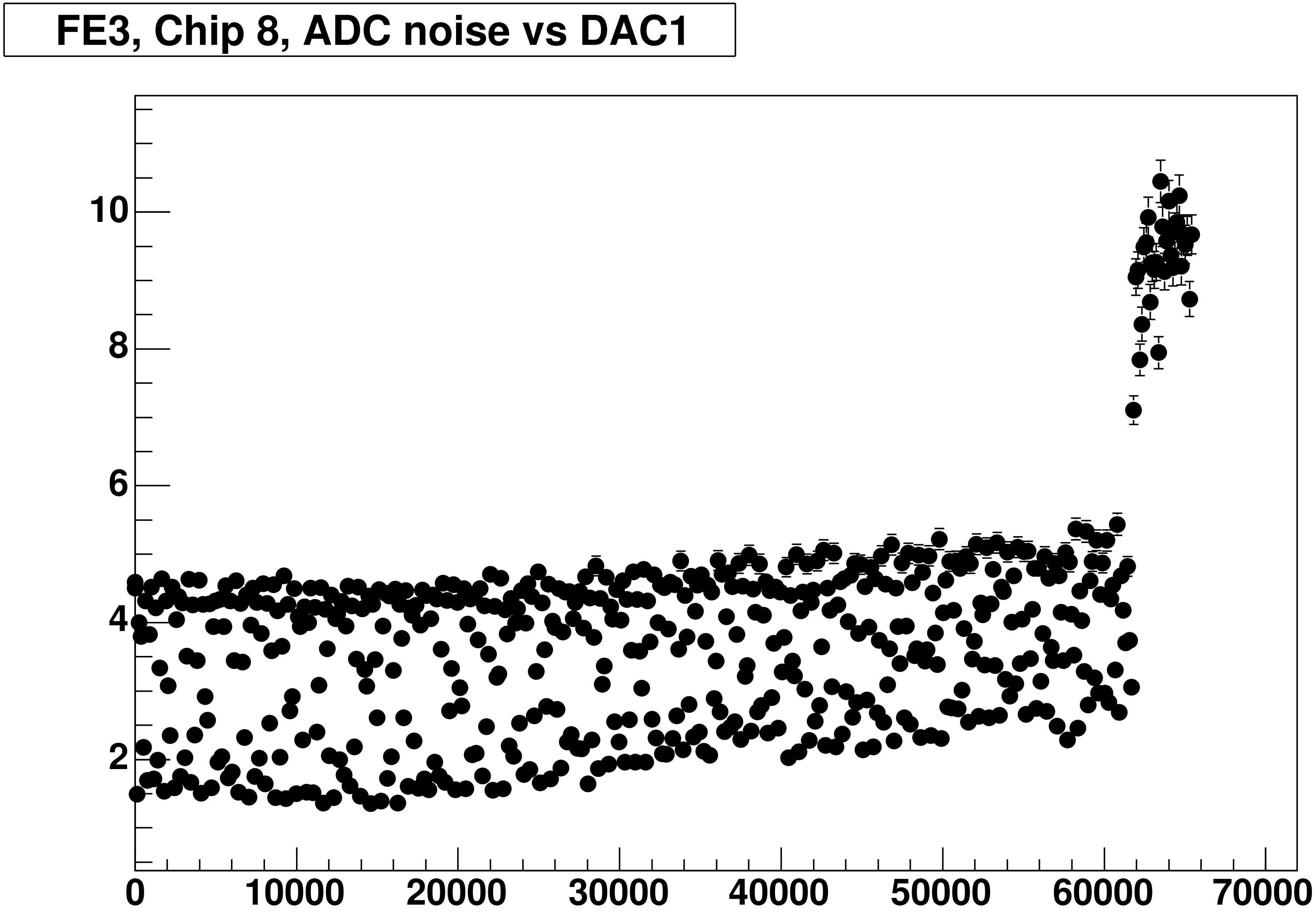

FE3, Chip 8, ADC mean vs DAC0
$\chi^2$ / ndf 354.4 / 427
p0 85.47 ± 0.02057
p1 3.339e-06 ± 5.679e-07
86.2
86
85.8
85.6
85.4
85.2
85
84.8
84.6
0
10000
20000
30000
40000
50000
60000
70000

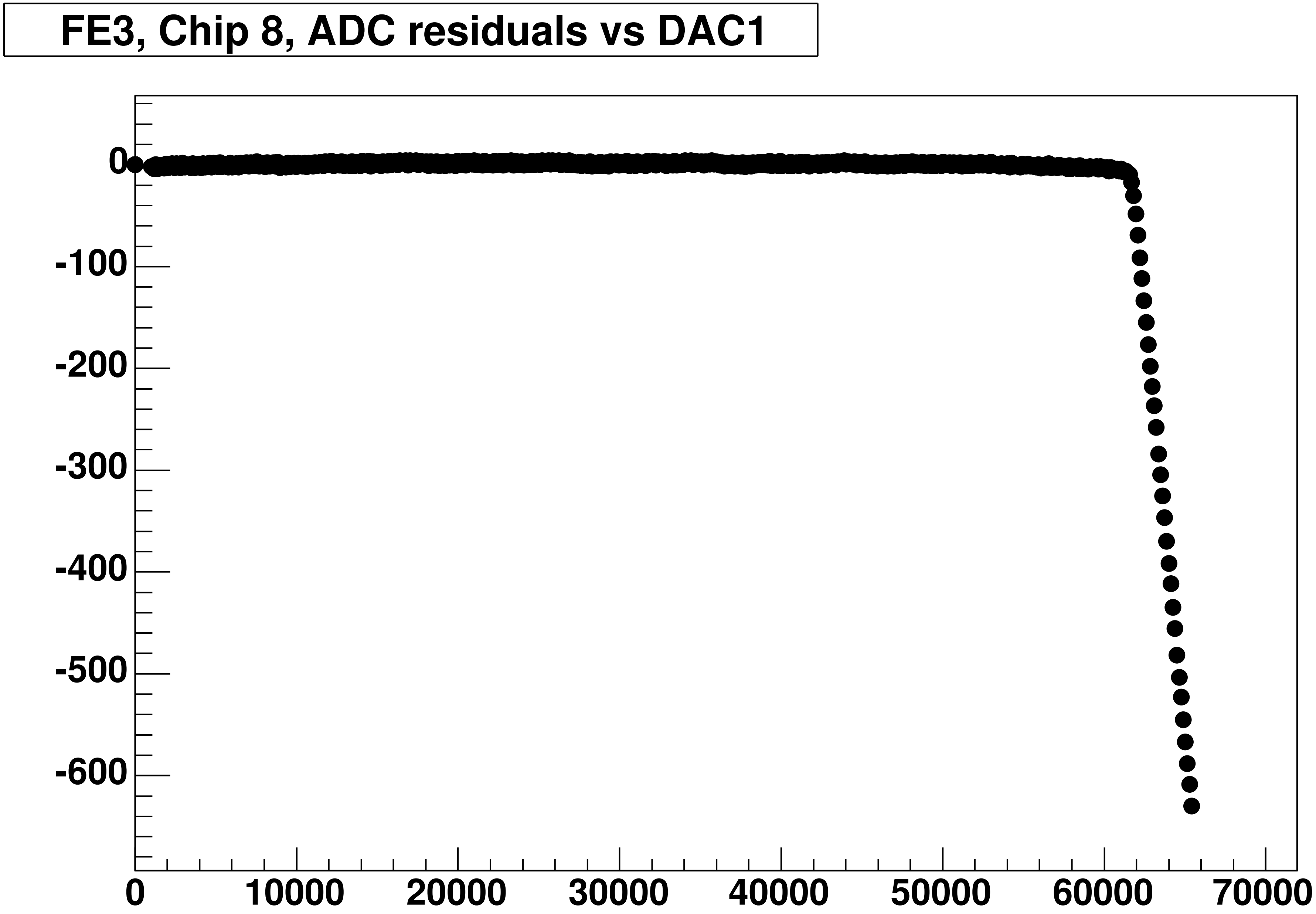

FE3, Chip 8, ADC noise vs DAC0
6
5.5
5
4.5
4
0
10000
20000
30000
40000
50000
60000
70000

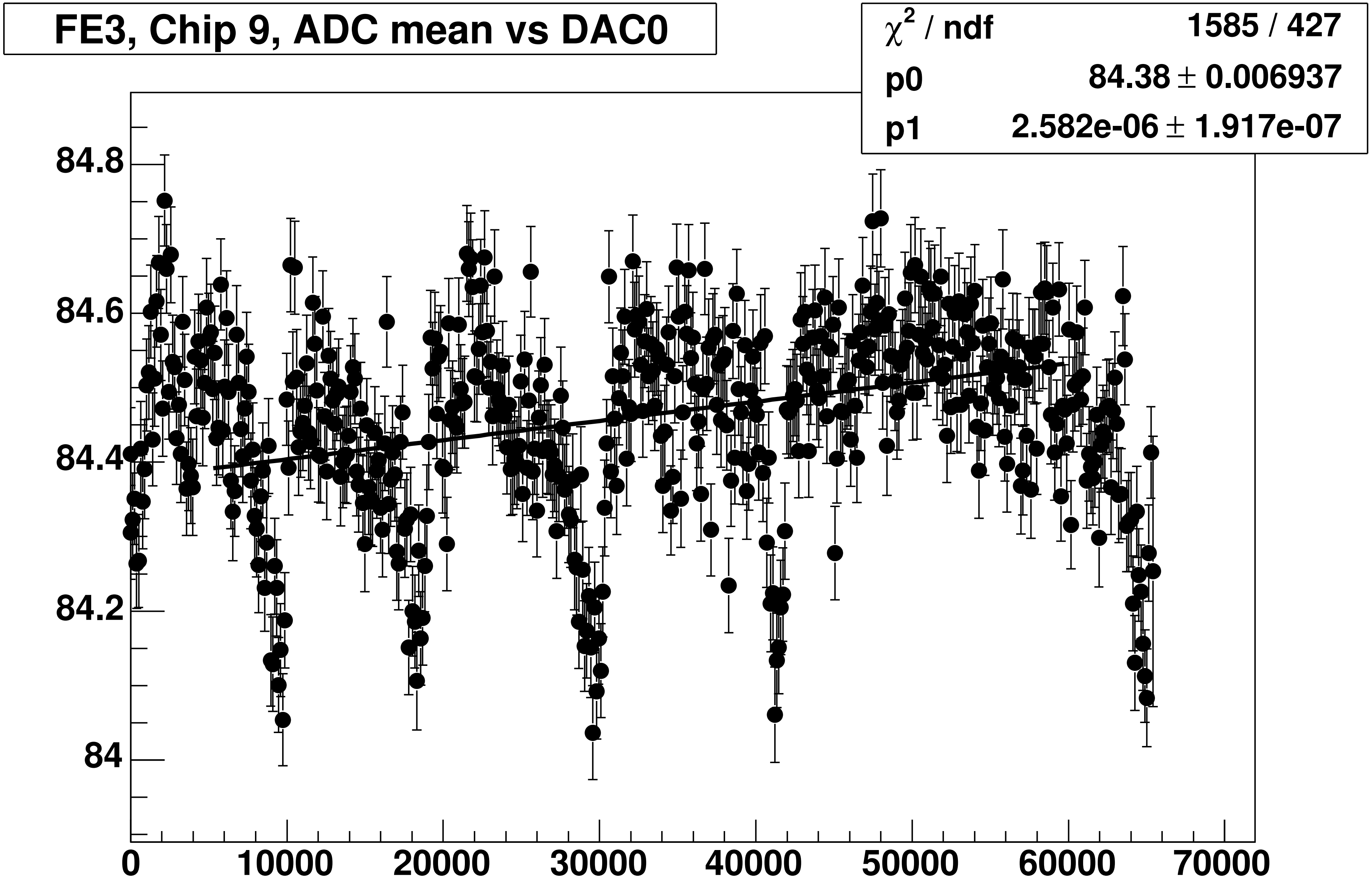

FE3, Chip 8, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
10000
20000
30000
40000
50000
60000
70000



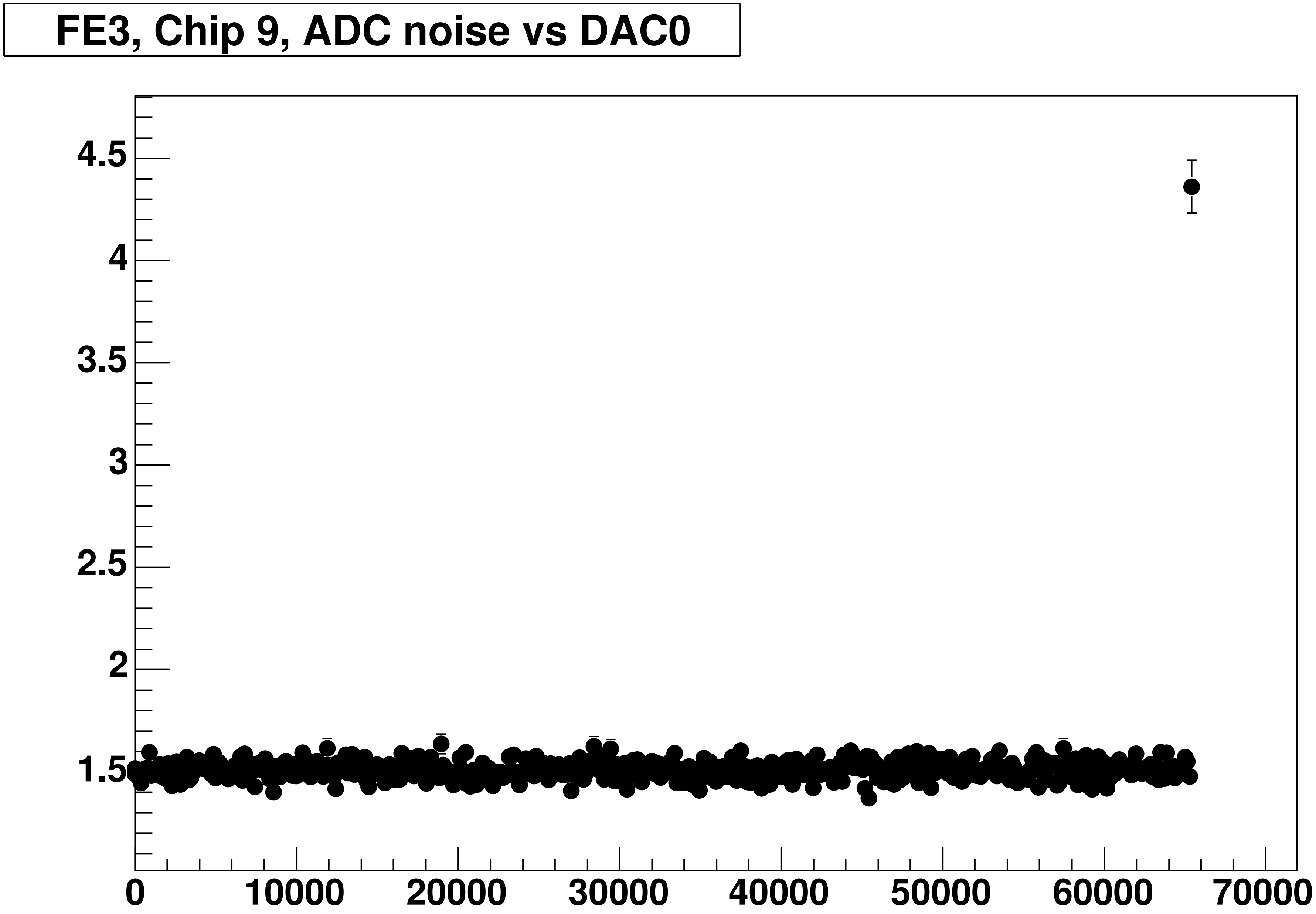
FE3, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 7.425e+04 / 427
p0 85.86 ± 0.01216
p1 0.4511 ± 3.802e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000

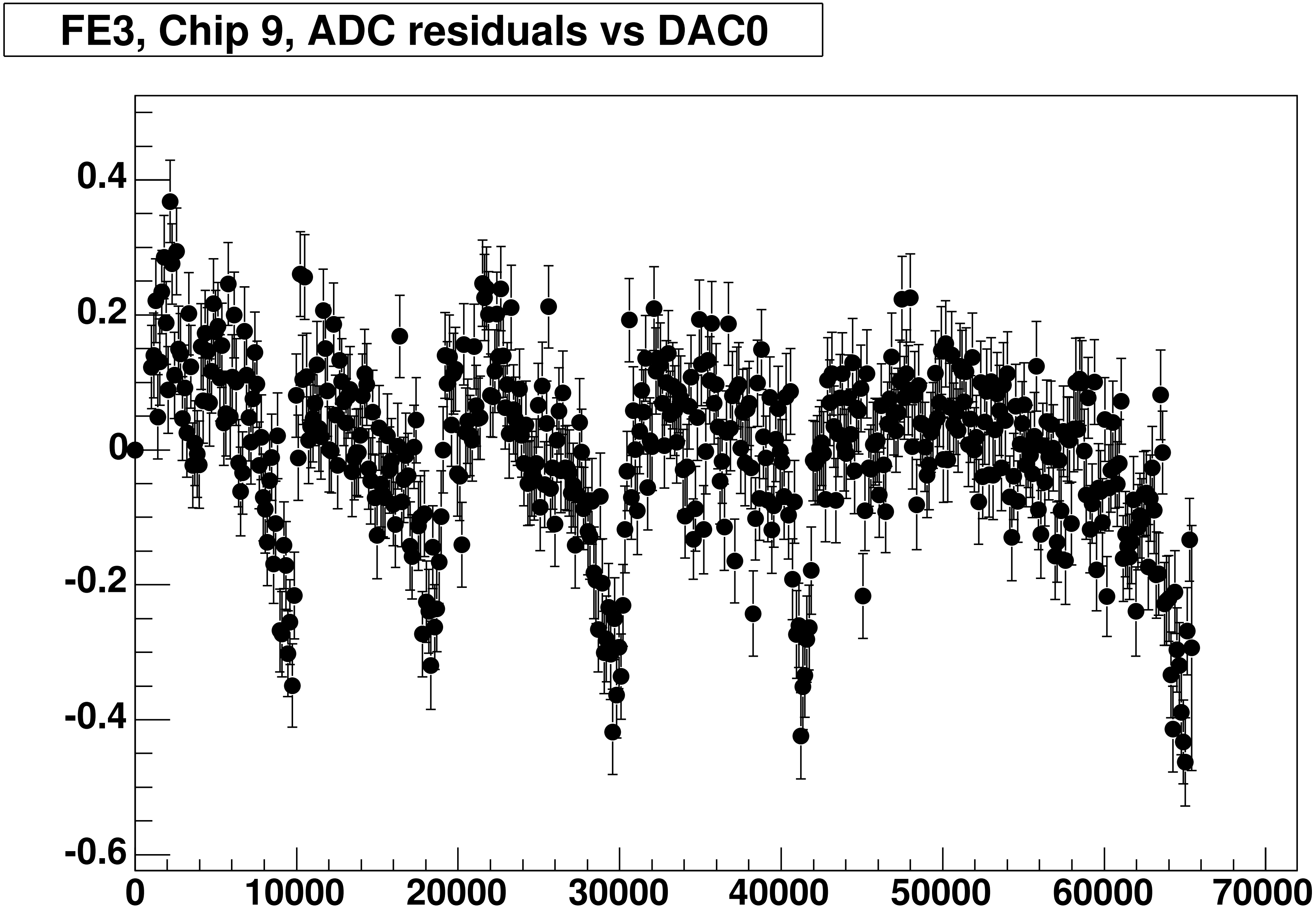

FE3, Chip 8, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000


FE3, Chip 8, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

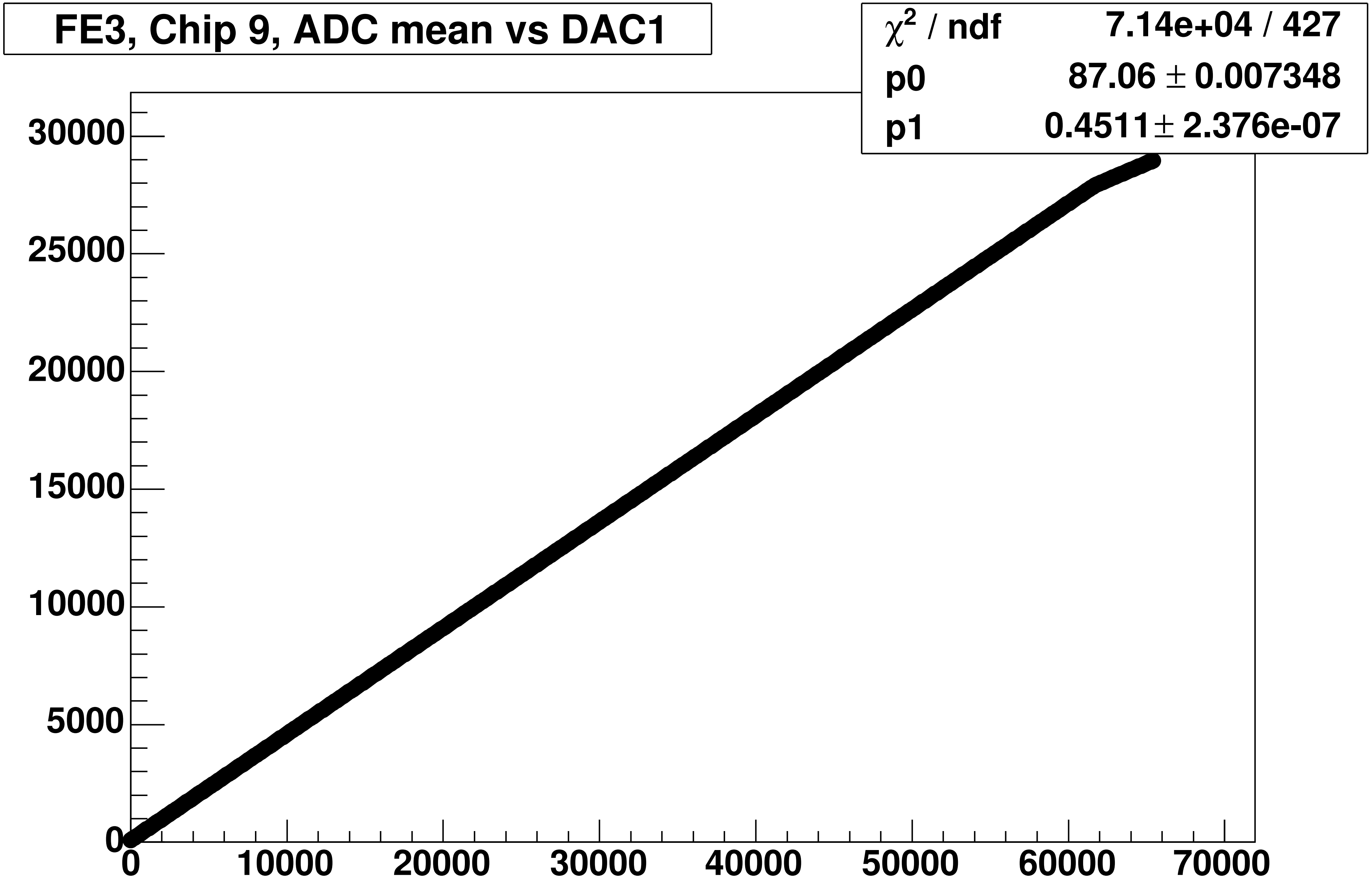


FE3, Chip 9, ADC mean vs DAC0
$\chi^2$ / ndf 1585 / 427
p0 84.38 ± 0.006937
p1 2.582e-06 ± 1.917e-07
84.8
84.6
84.4
84.2
84
0
10000
20000
30000
40000
50000
60000
70000

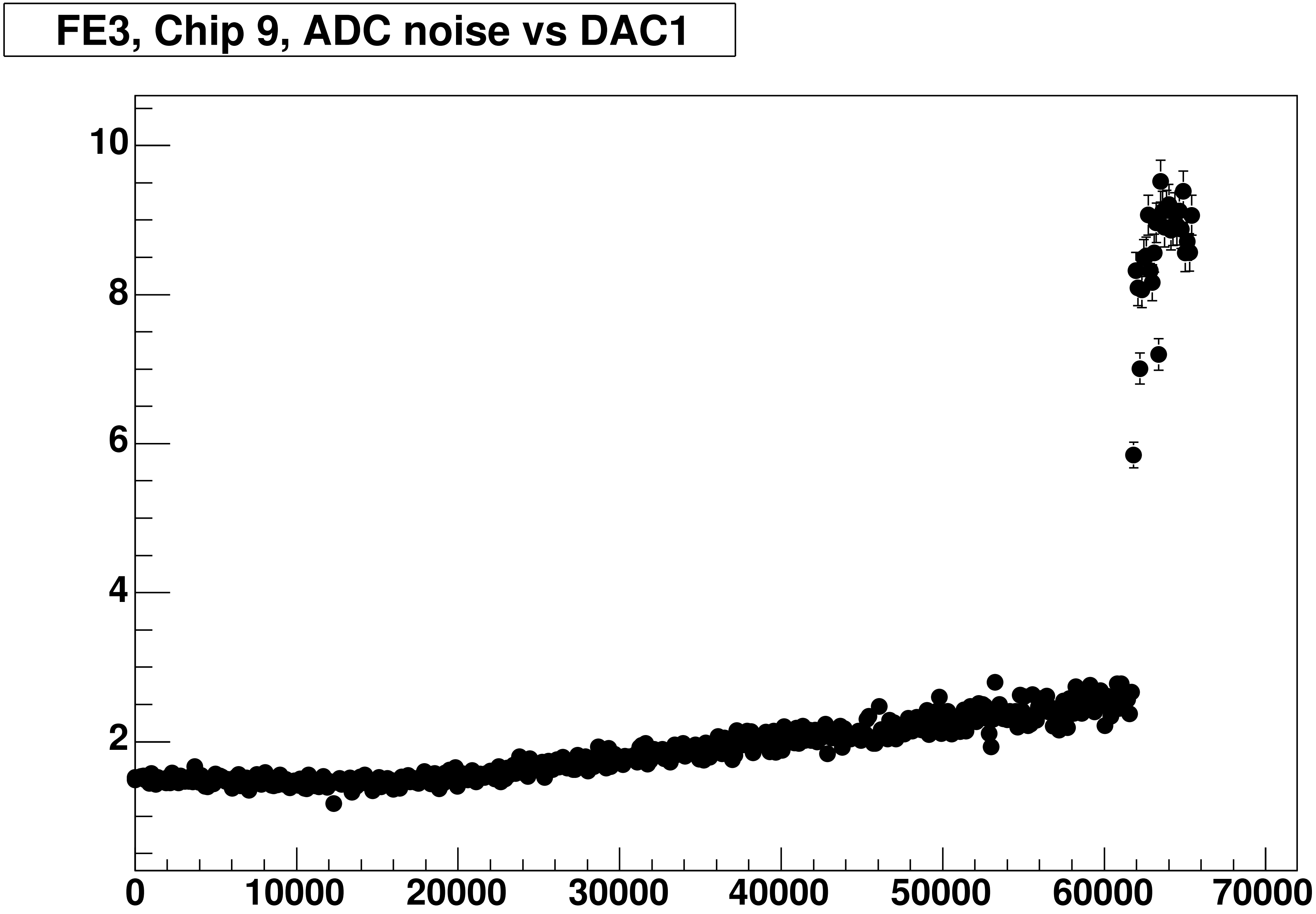

FE3, Chip 9, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
10000
20000
30000
40000
50000
60000
70000

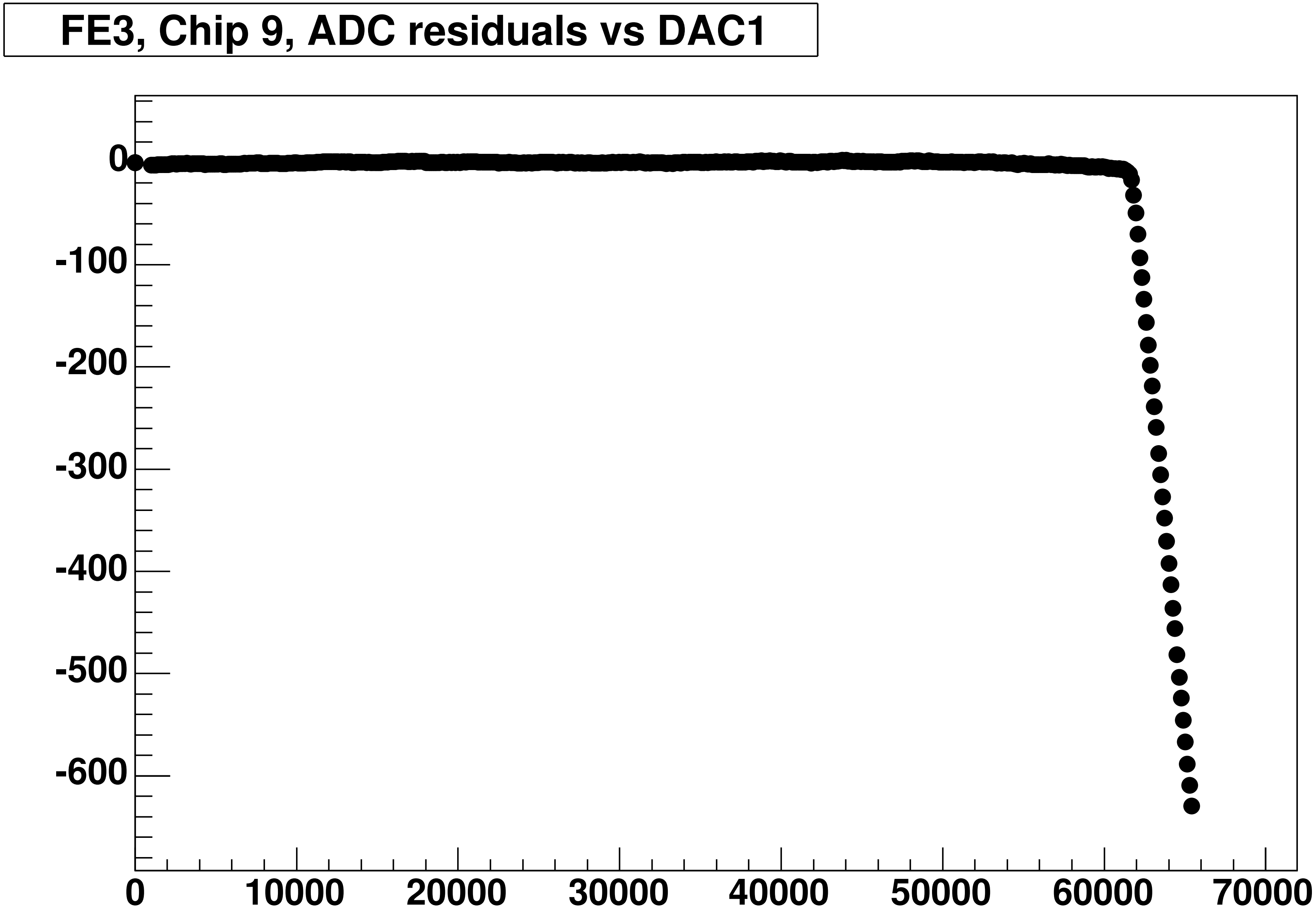


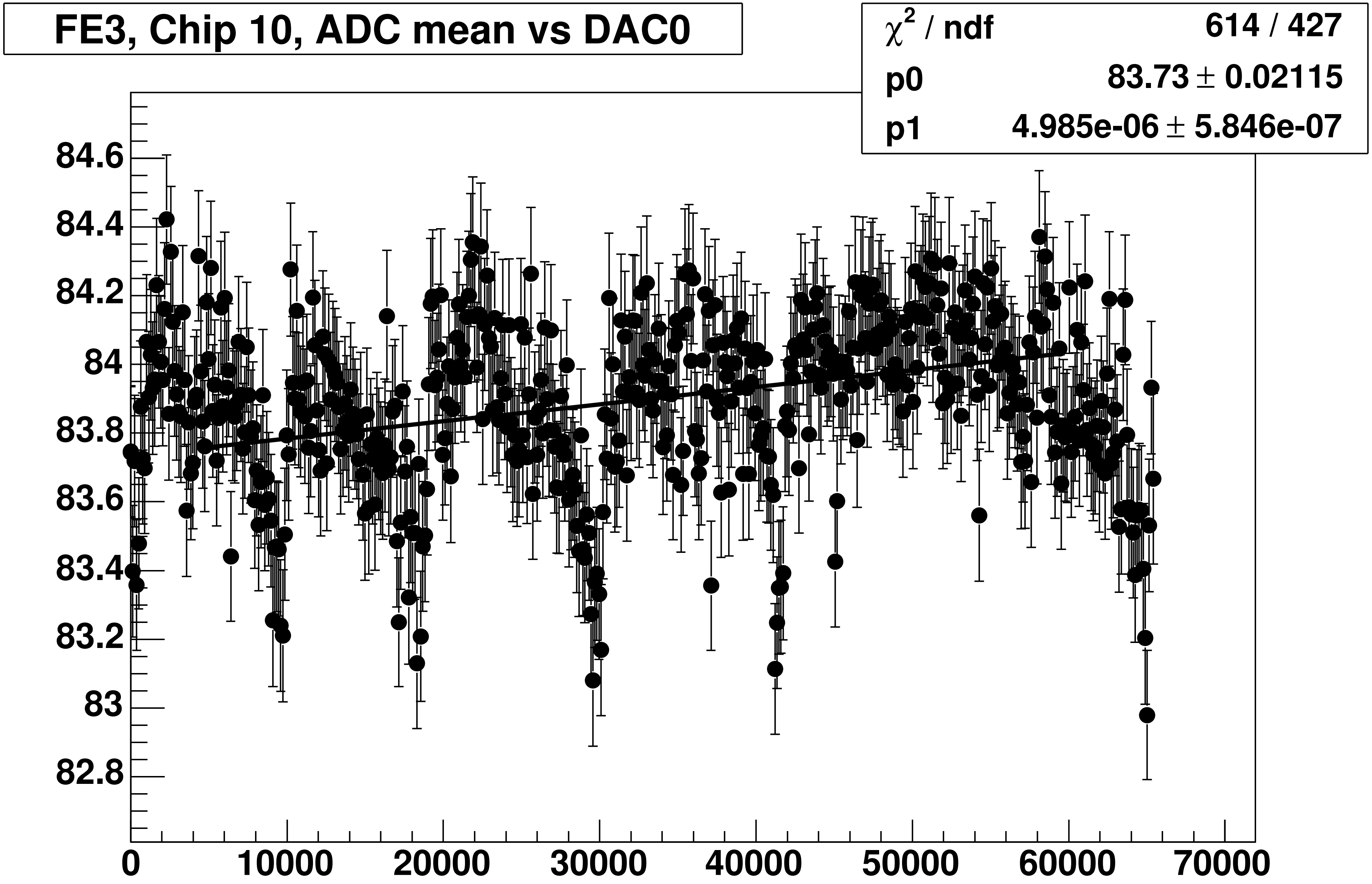
FE3, Chip 9, ADC residuals vs DAC0
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000



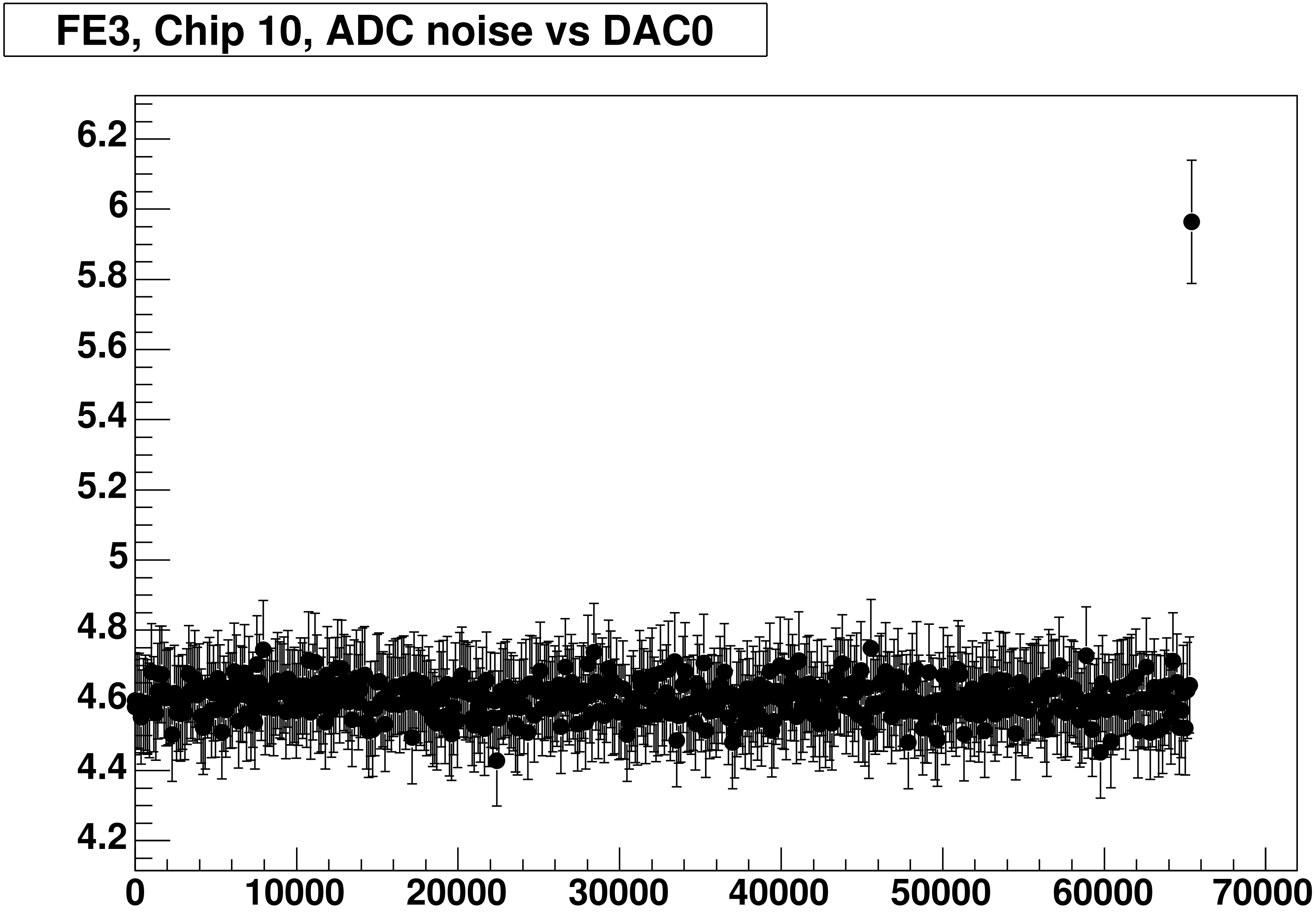
FE3, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 7.14e+04 / 427
p0 87.06 ± 0.007348
p1 0.4511 ± 2.376e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000


FE3, Chip 9, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000

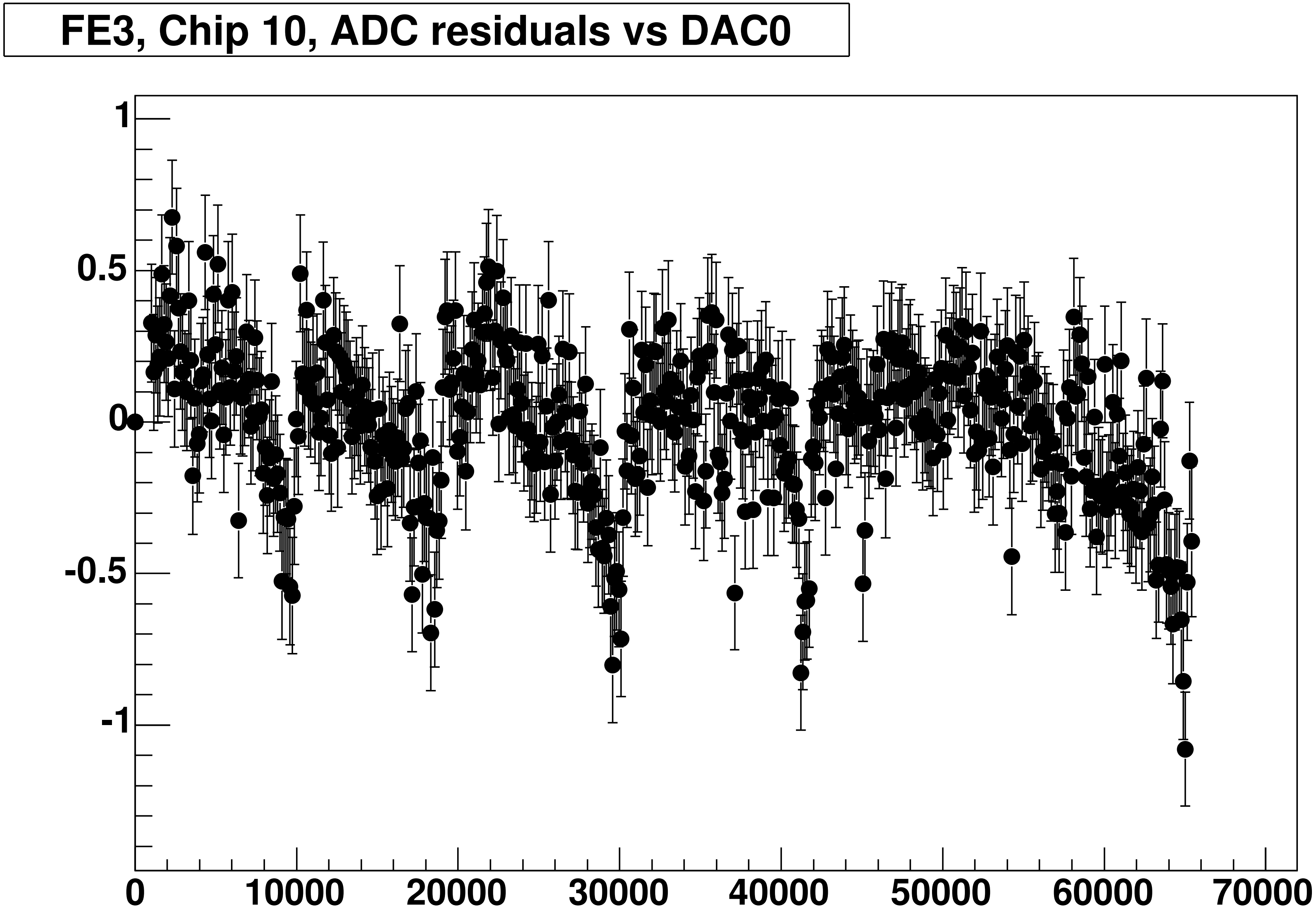

FE3, Chip 9, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

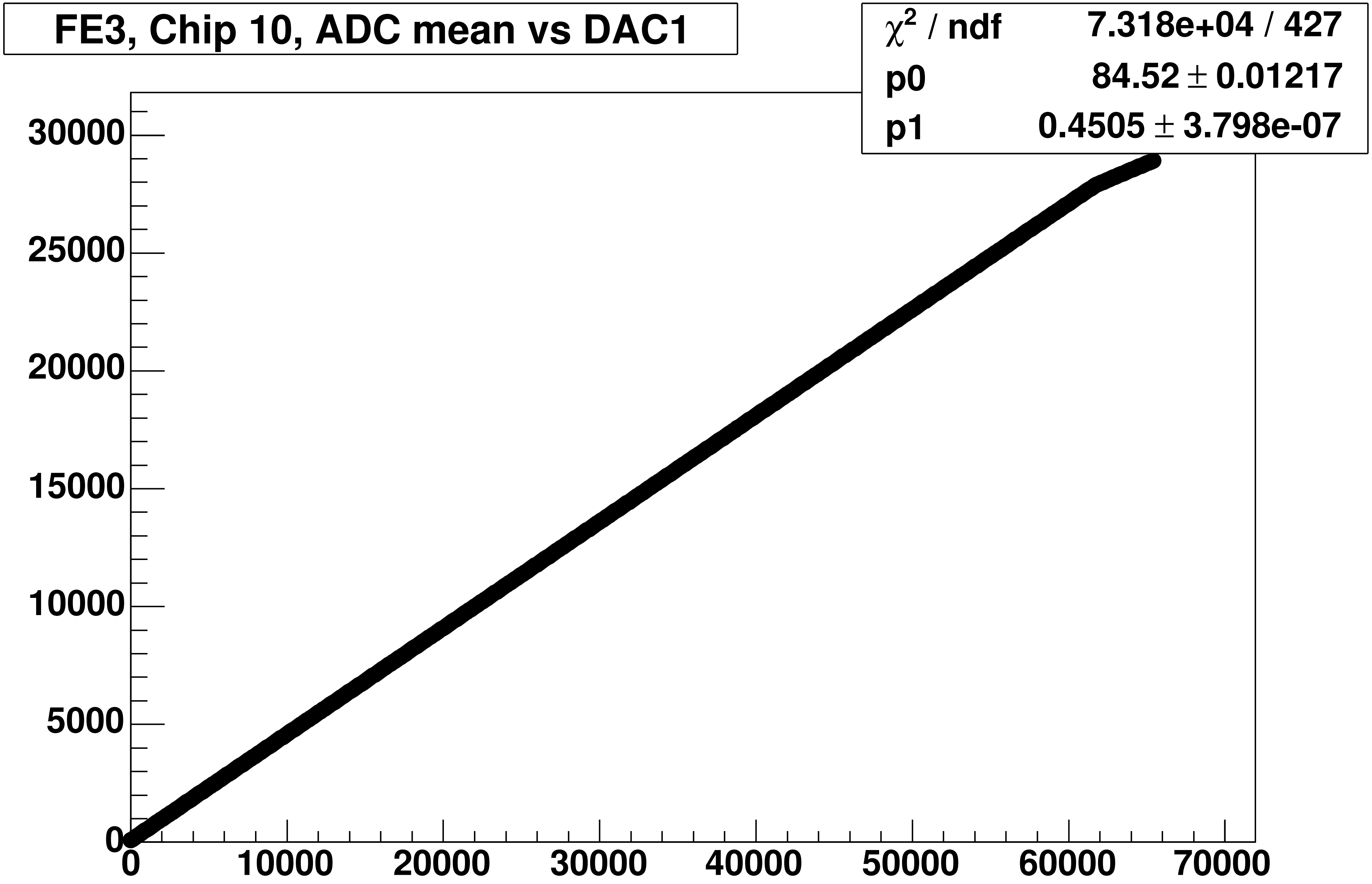


FE3, Chip 10, ADC mean vs DAC0
$\chi^2$ / ndf 614 / 427
p0 83.73 ± 0.02115
p1 4.985e-06 ± 5.846e-07
84.6
84.4
84.2
84
83.8
83.6
83.4
83.2
83
82.8
0
10000
20000
30000
40000
50000
60000
70000

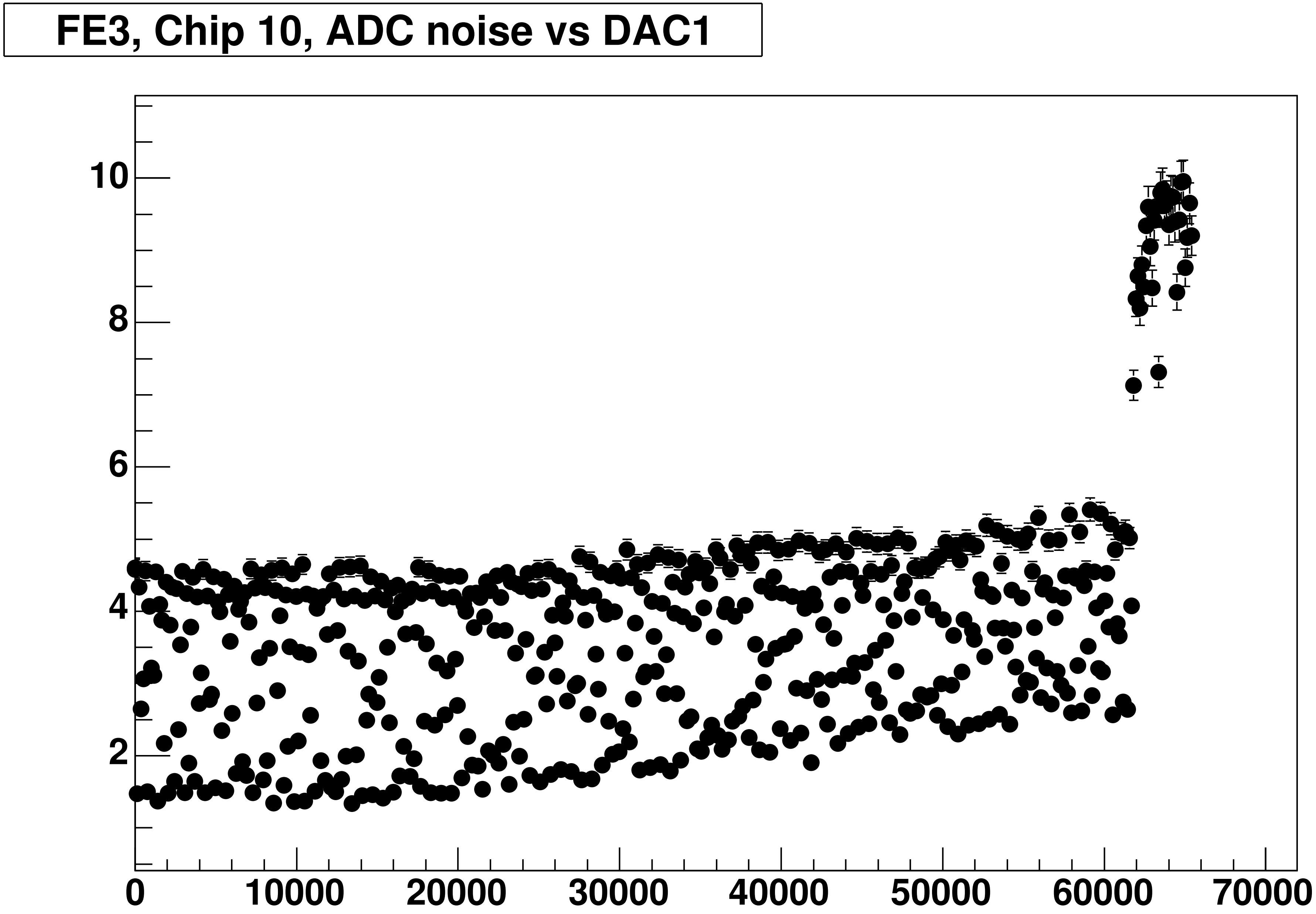


FE3, Chip 10, ADC noise vs DAC0
6.2
6
5.8
5.6
5.4
5.2
5
4.8
4.6
4.4
4.2
0
10000
20000
30000
40000
50000
60000
70000

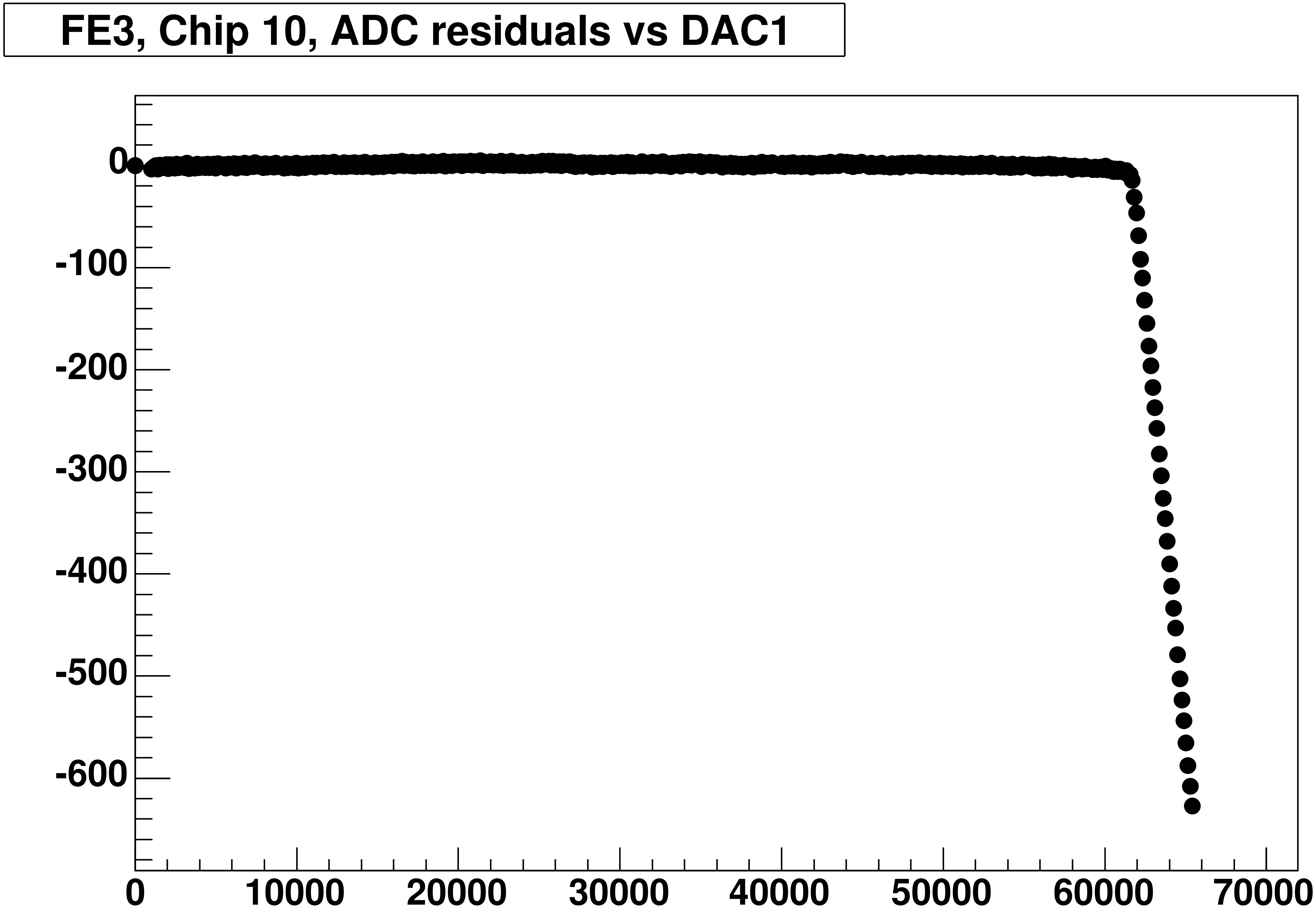

FE3, Chip 10, ADC residuals vs DAC0
1
0.5
0
-0.5
-1
0
10000
20000
30000
40000
50000
60000
70000



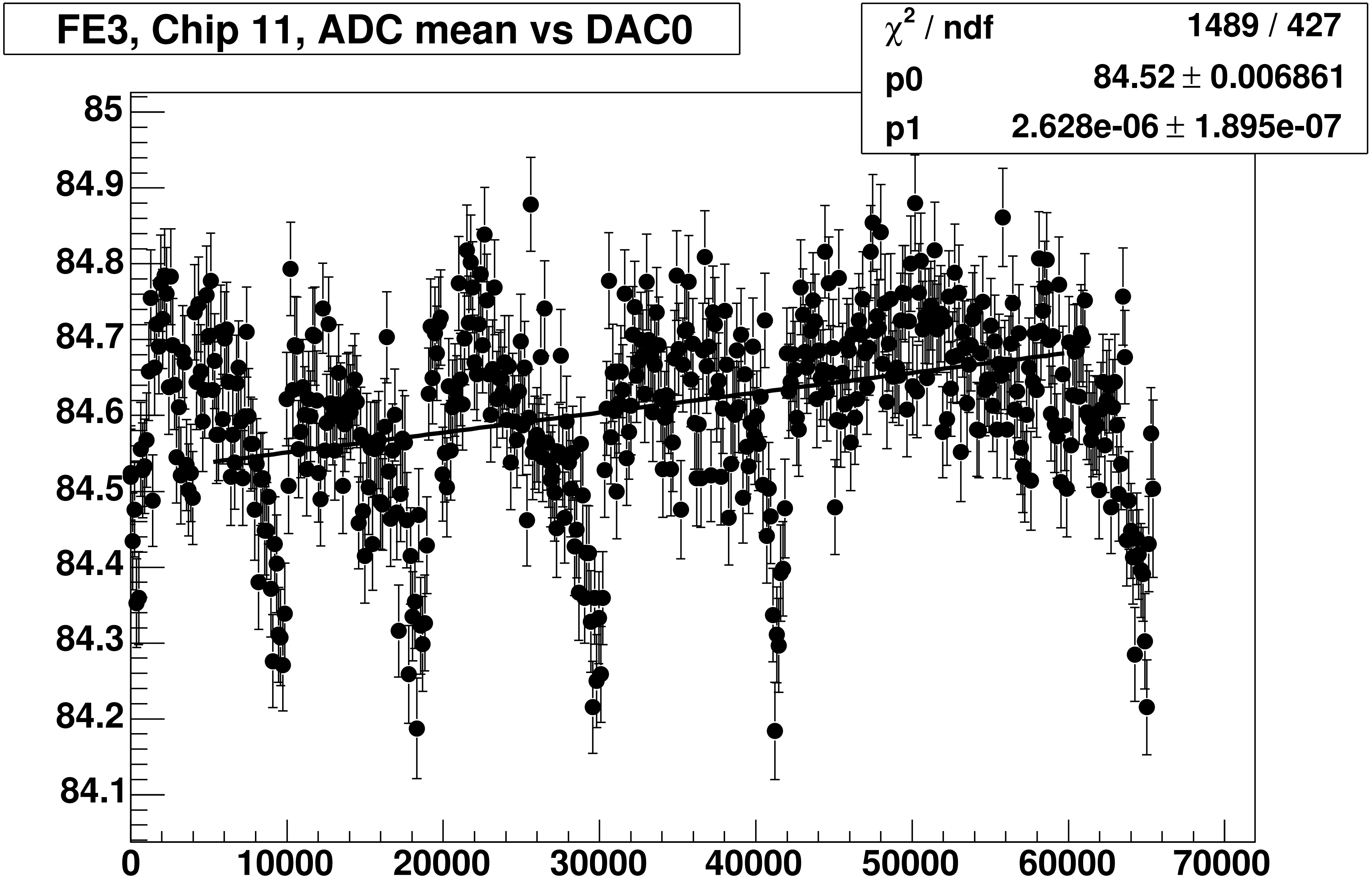
FE3, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 7.318e+04 / 427
p0 84.52 ± 0.01217
p1 0.4505 ± 3.798e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000

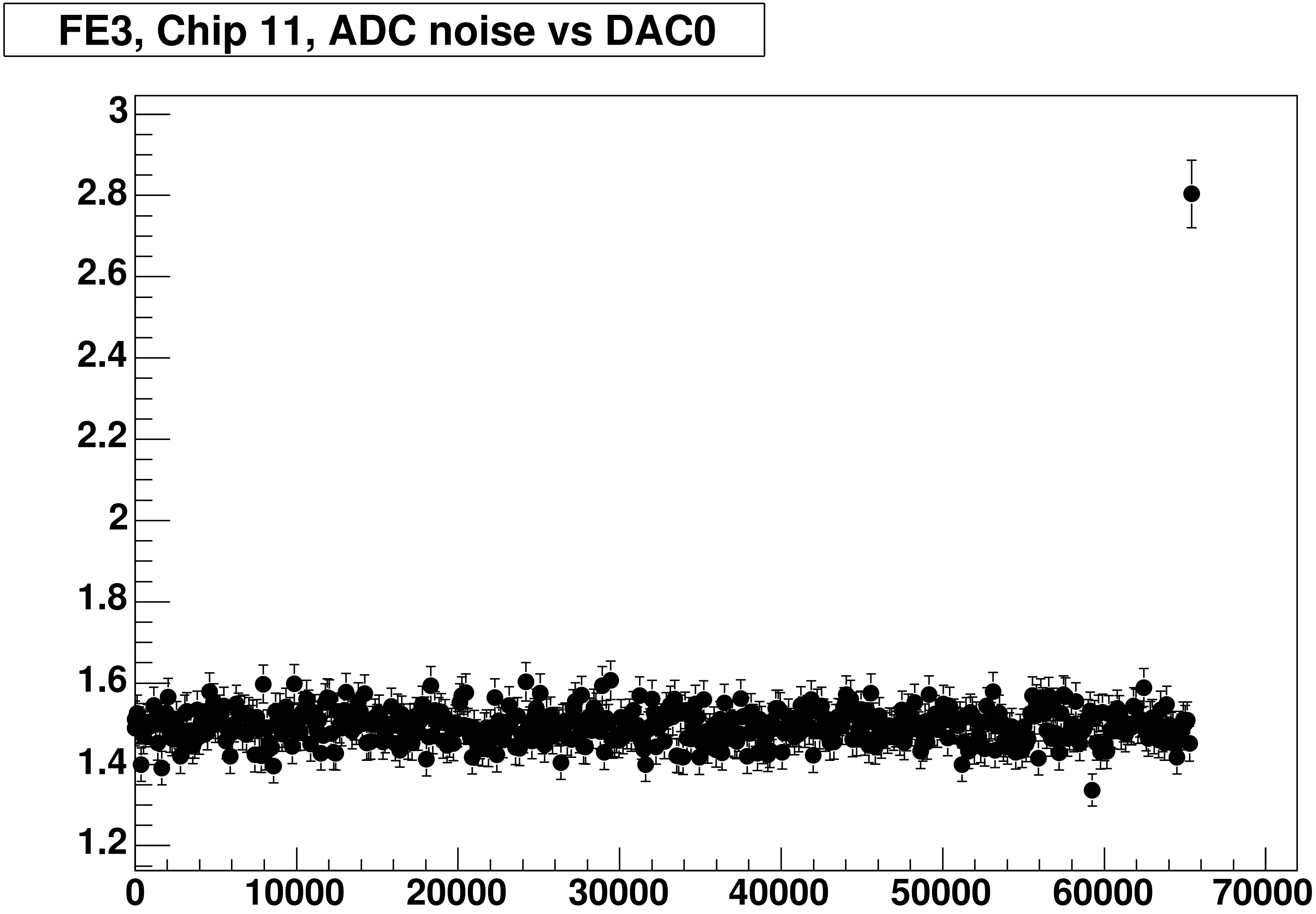


FE3, Chip 10, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000

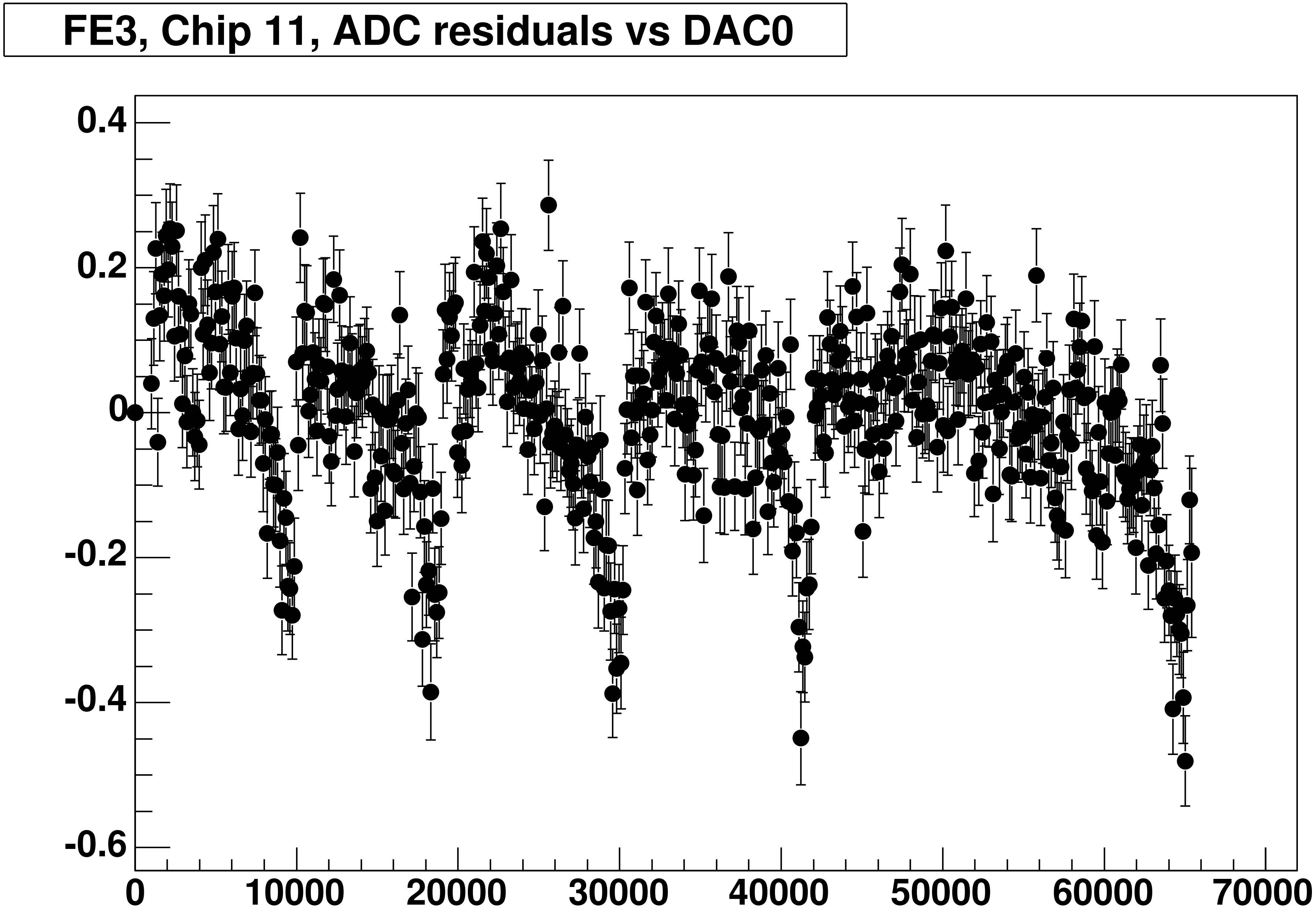


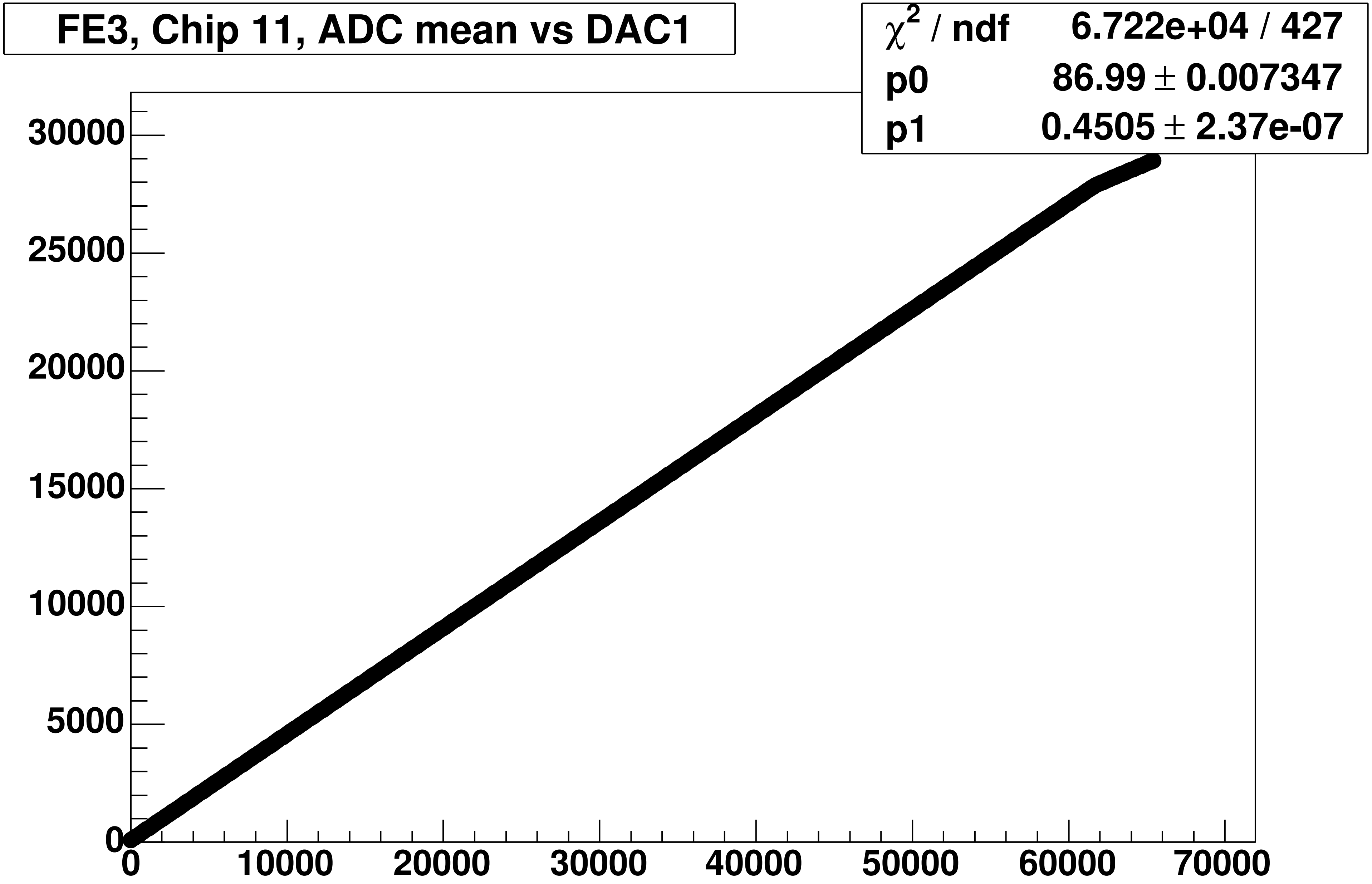
FE3, Chip 10, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

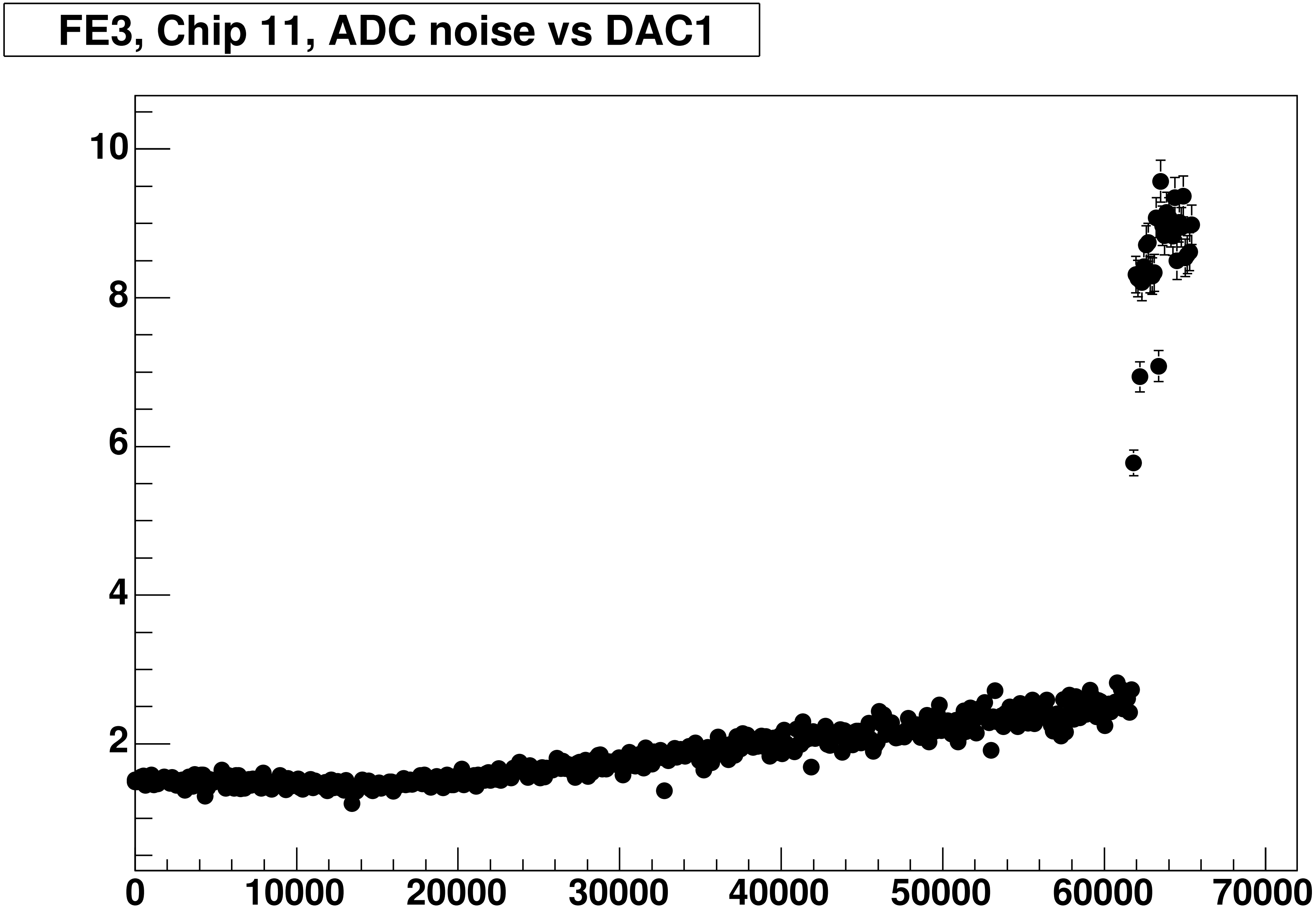

FE3, Chip 11, ADC mean vs DAC0
$\chi^2$ / ndf 1489 / 427
p0 84.52 ± 0.006861
p1 2.628e-06 ± 1.895e-07
85
84.9
84.8
84.7
84.6
84.5
84.4
84.3
84.2
84.1
0
10000
20000
30000
40000
50000
60000
70000

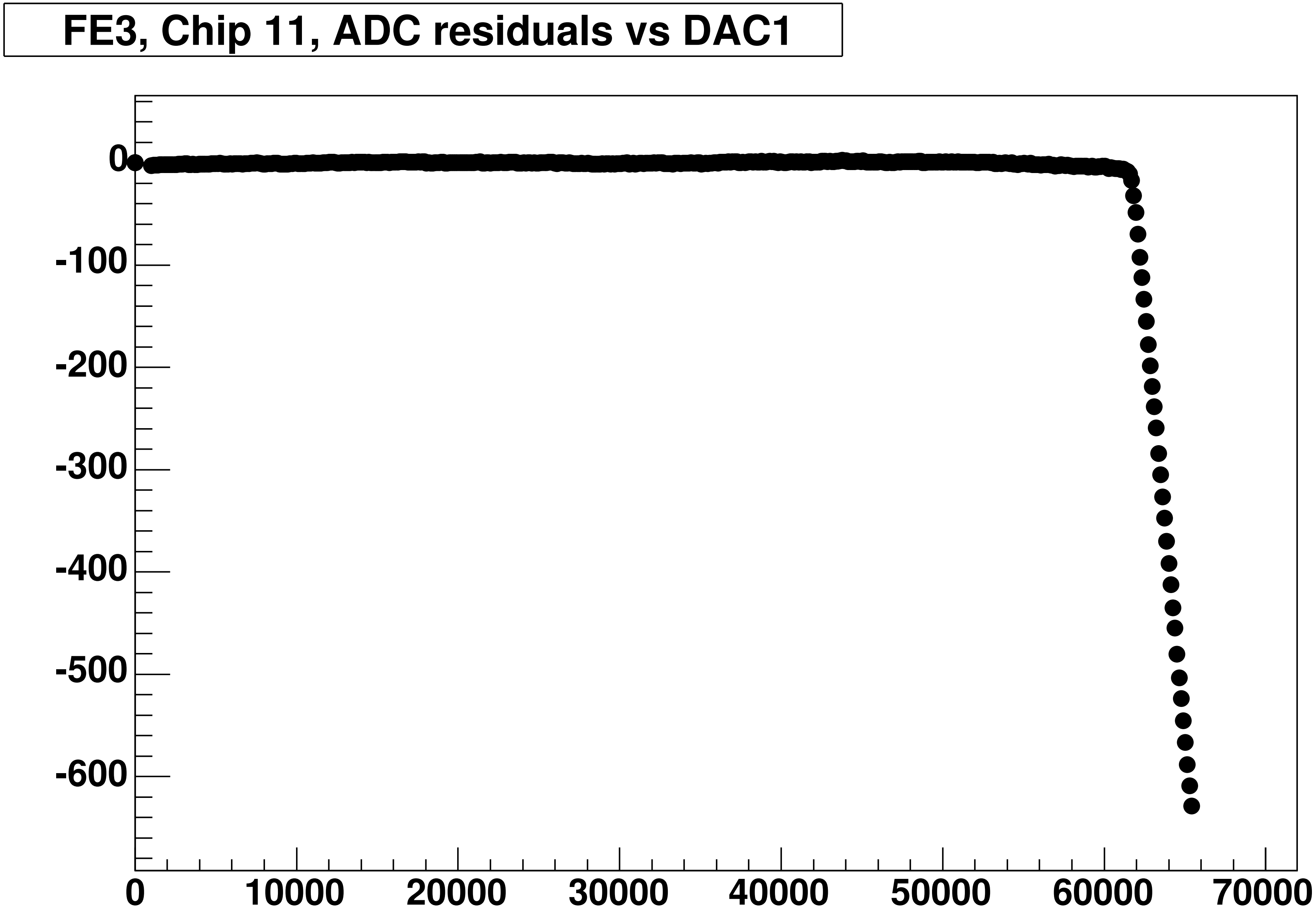


FE3, Chip 11, ADC noise vs DAC0
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
0
10000
20000
30000
40000
50000
60000
70000

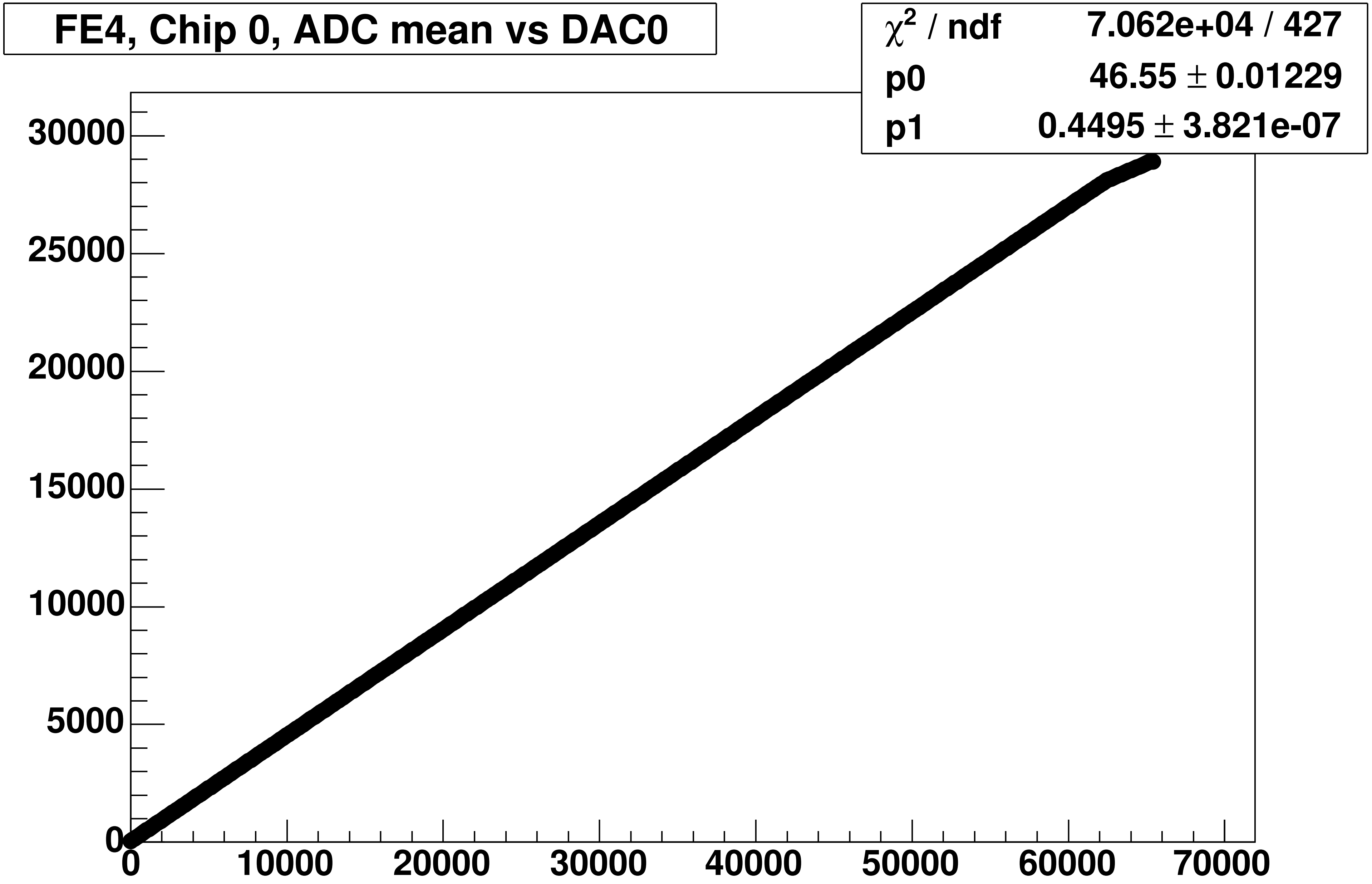

FE3, Chip 11, ADC residuals vs DAC0
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000

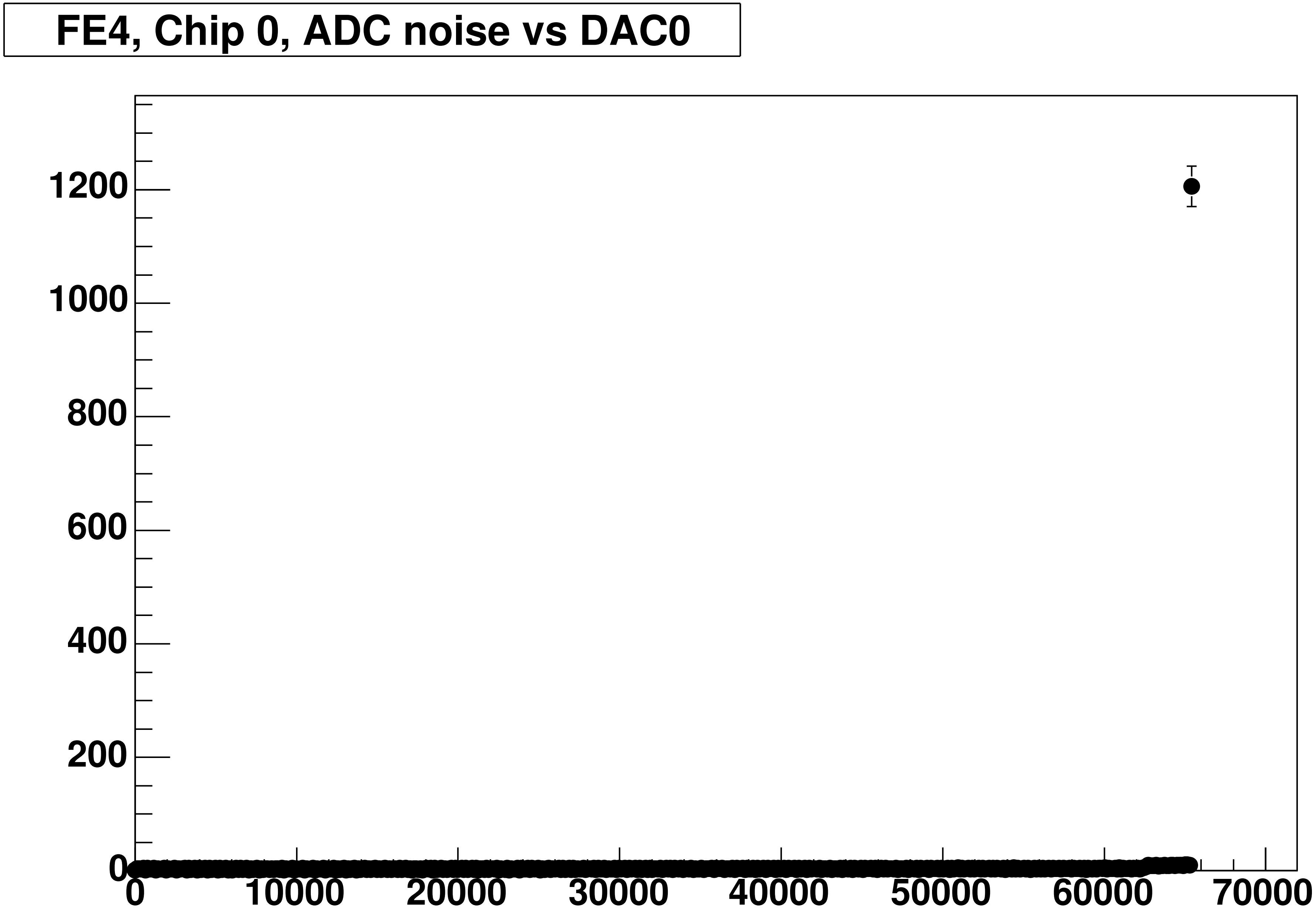

FE3, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 6.722e+04 / 427
p0 86.99 ± 0.007347
p1 0.4505 ± 2.37e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000


FE3, Chip 11, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000

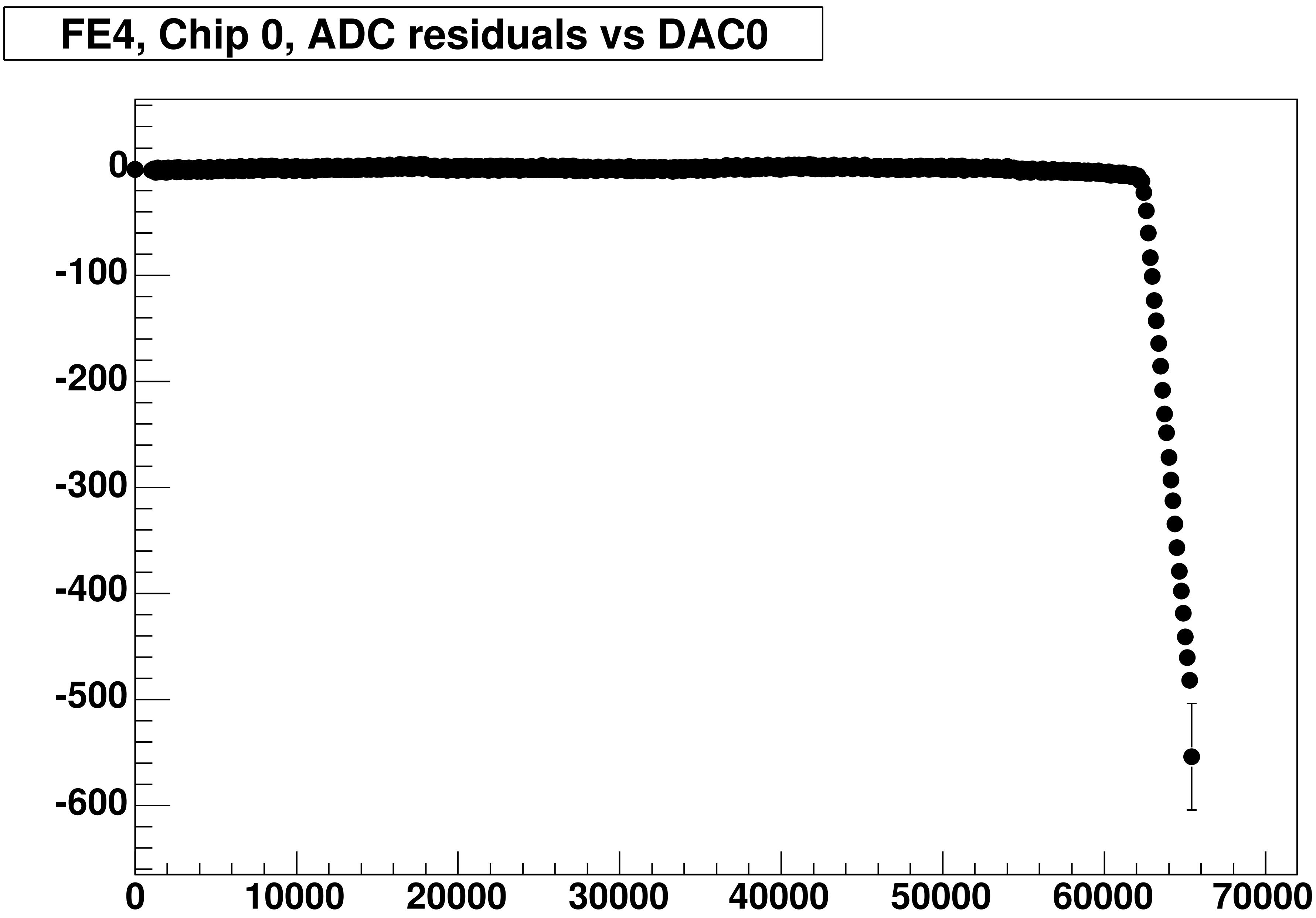


FE3, Chip 11, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

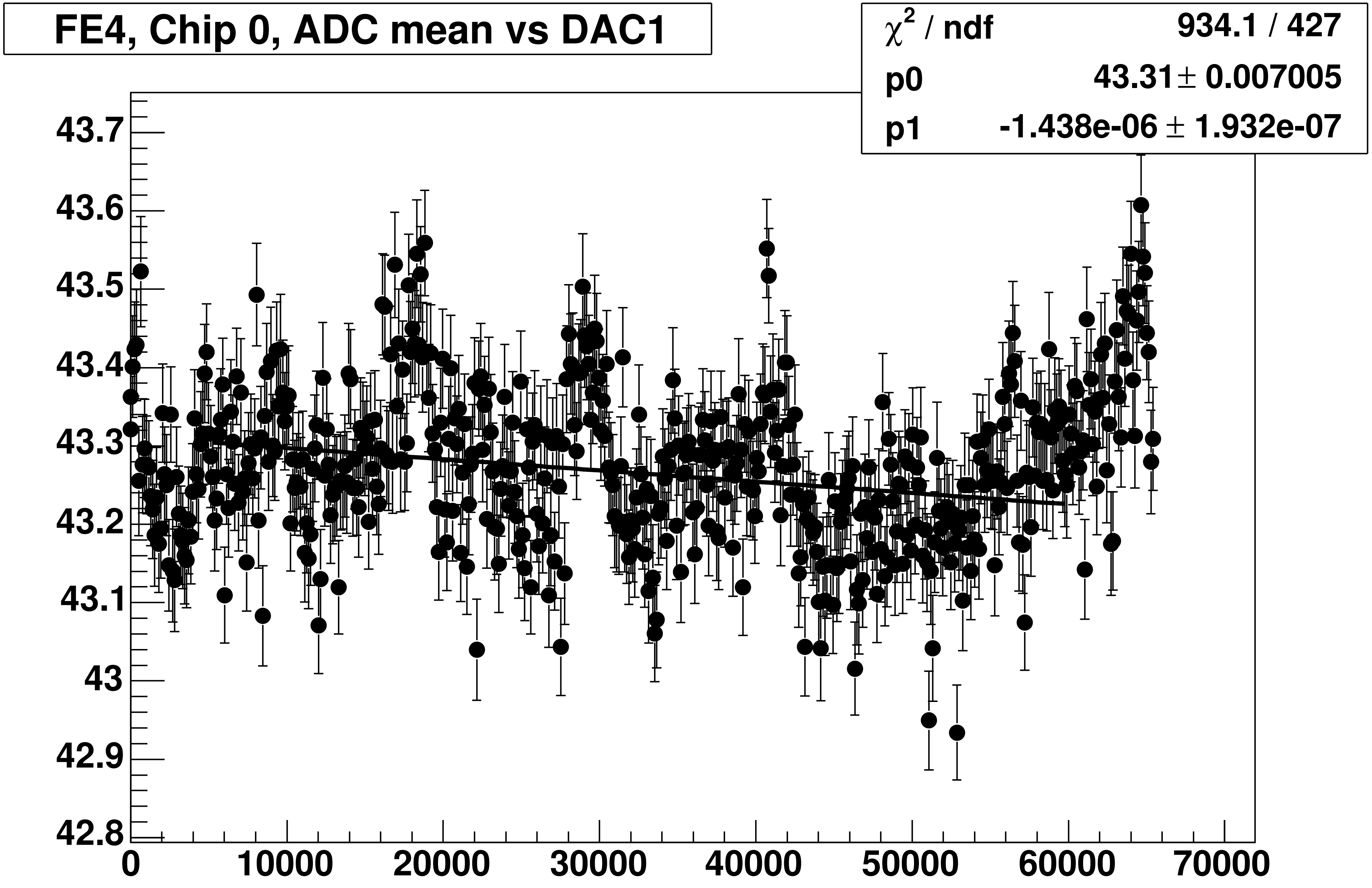

FE4, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 7.062e+04 / 427
p0 46.55 ± 0.01229
p1 0.4495 ± 3.821e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000



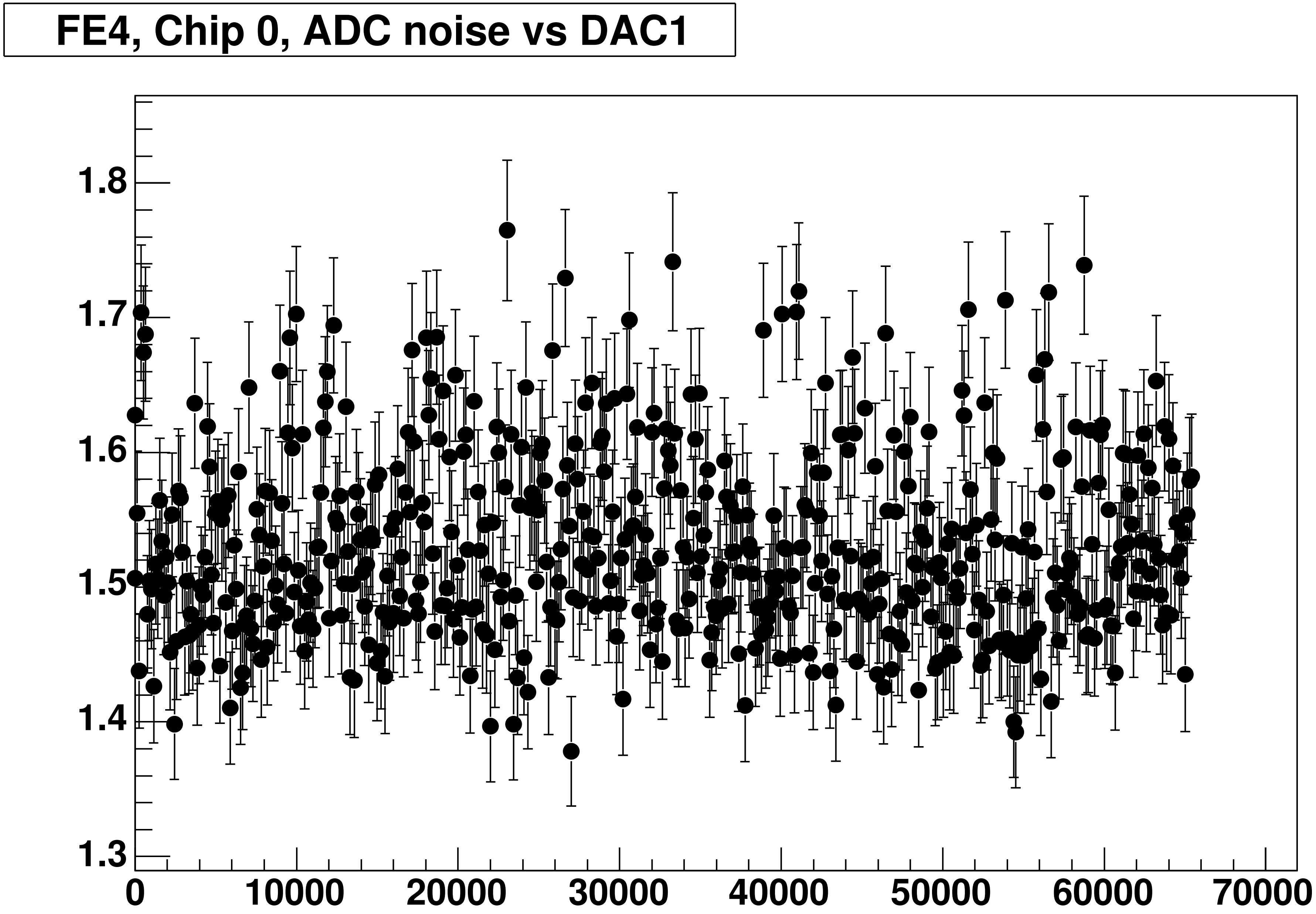
FE4, Chip 0, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000
70000



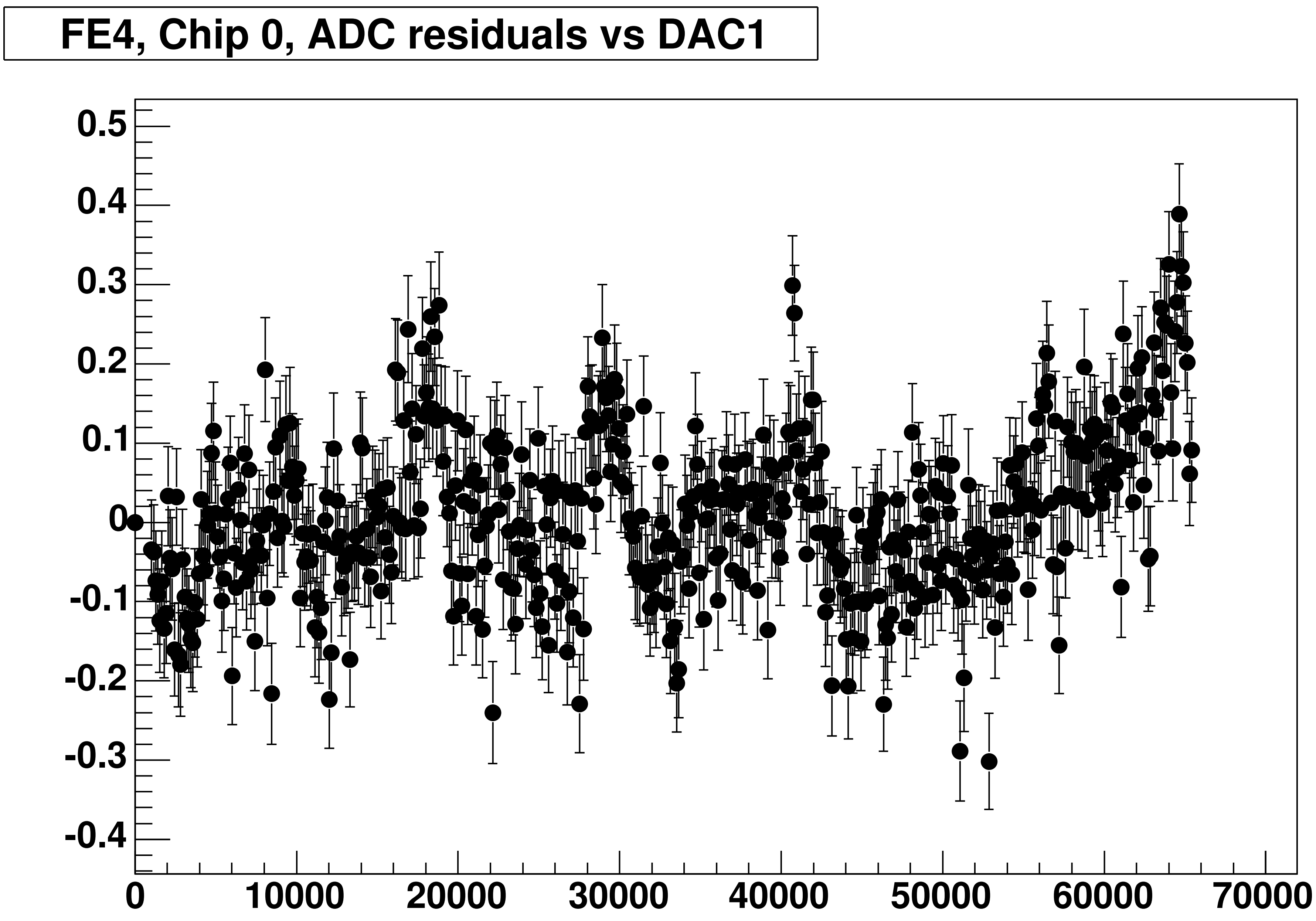
FE4, Chip 0, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

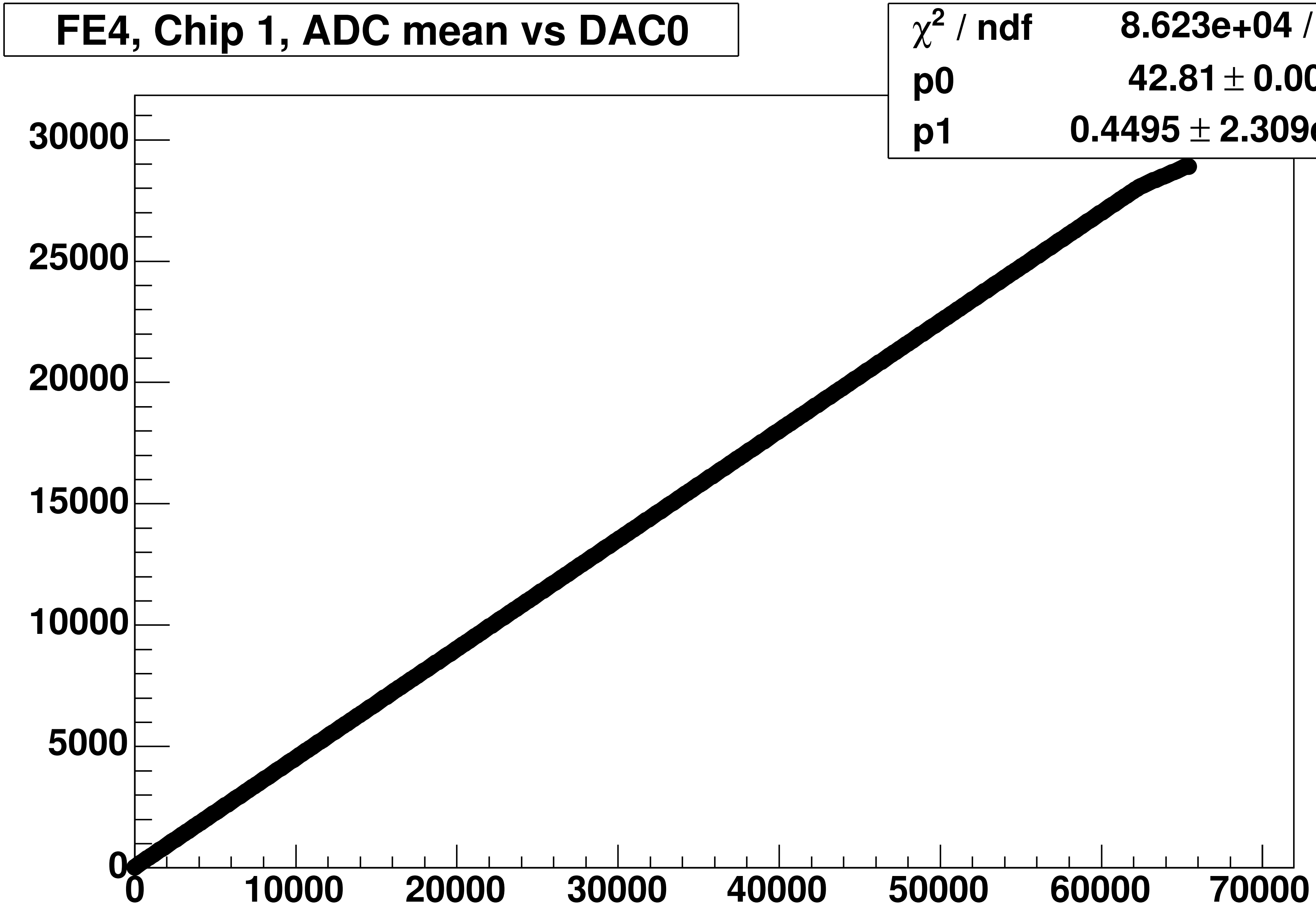


FE4, Chip 0, ADC mean vs DAC1
$\chi^2$ / ndf 934.1 / 427
p0 43.31 ± 0.007005
p1 -1.438e-06 ± 1.932e-07
43.7
43.6
43.5
43.4
43.3
43.2
43.1
43
42.9
42.8
0
10000
20000
30000
40000
50000
60000
70000

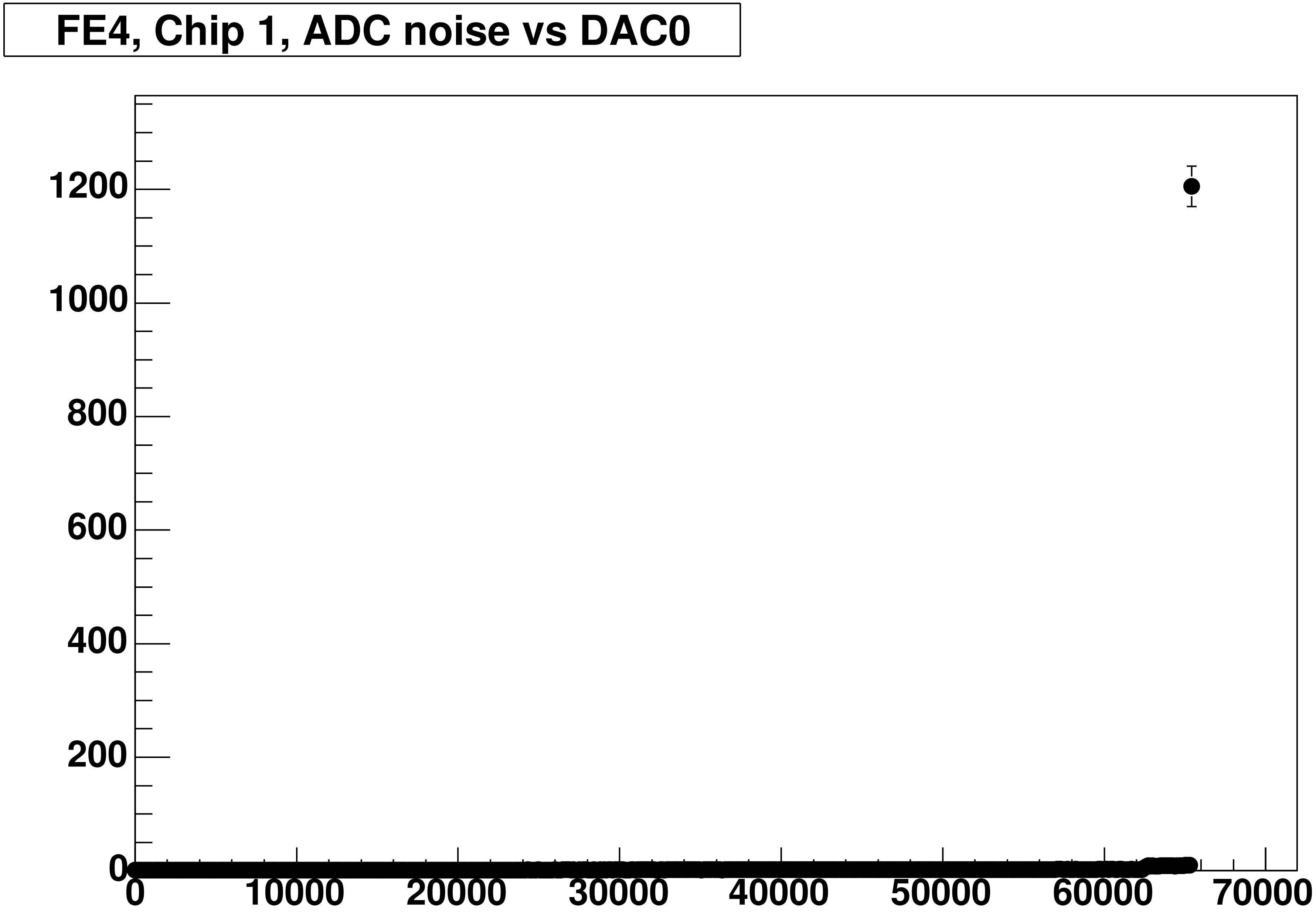


FE4, Chip 0, ADC noise vs DAC1
1.3
1.4
1.5
1.6
1.7
1.8
0
10000
20000
30000
40000
50000
60000
70000

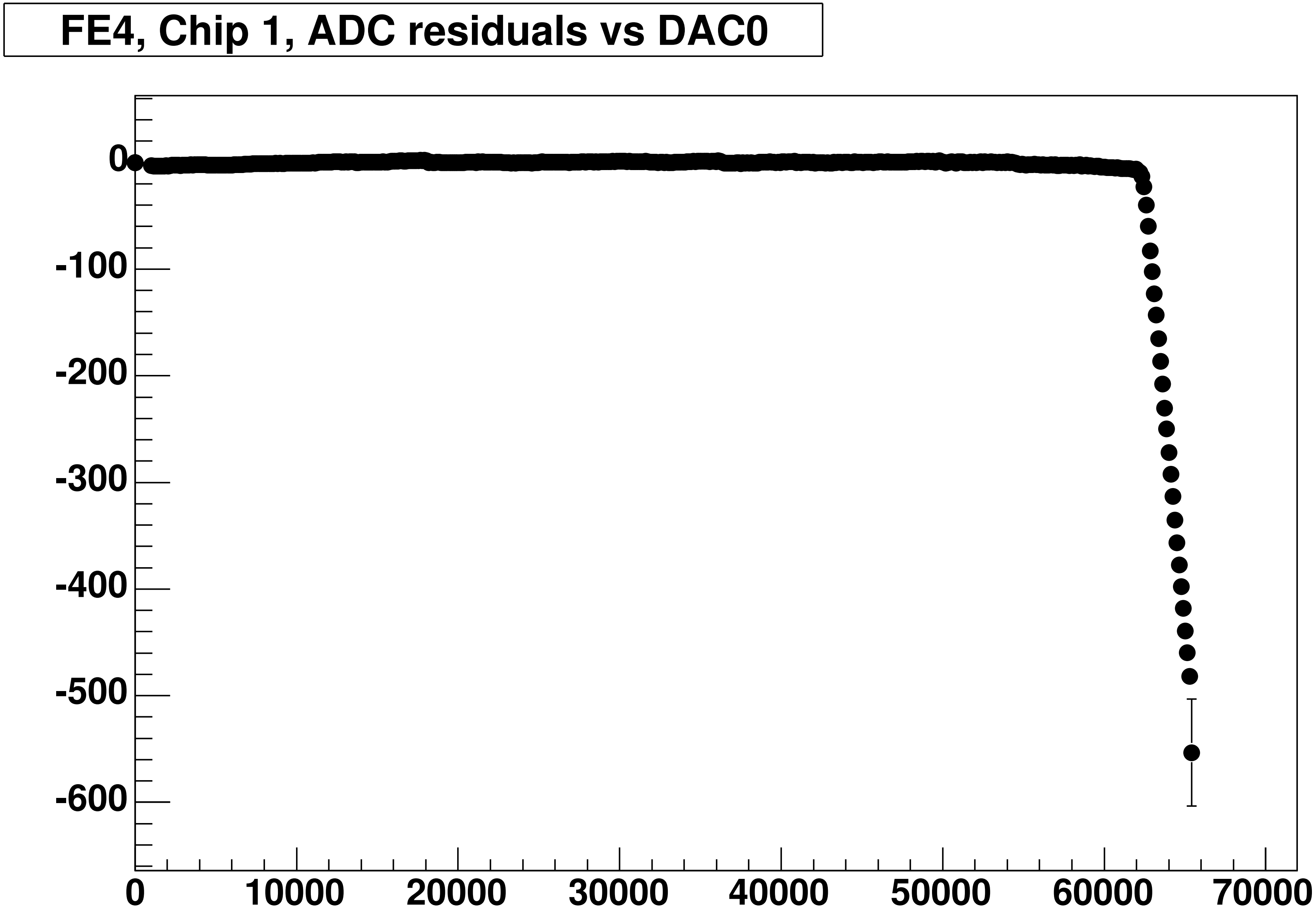

FE4, Chip 0, ADC residuals vs DAC1
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000
70000



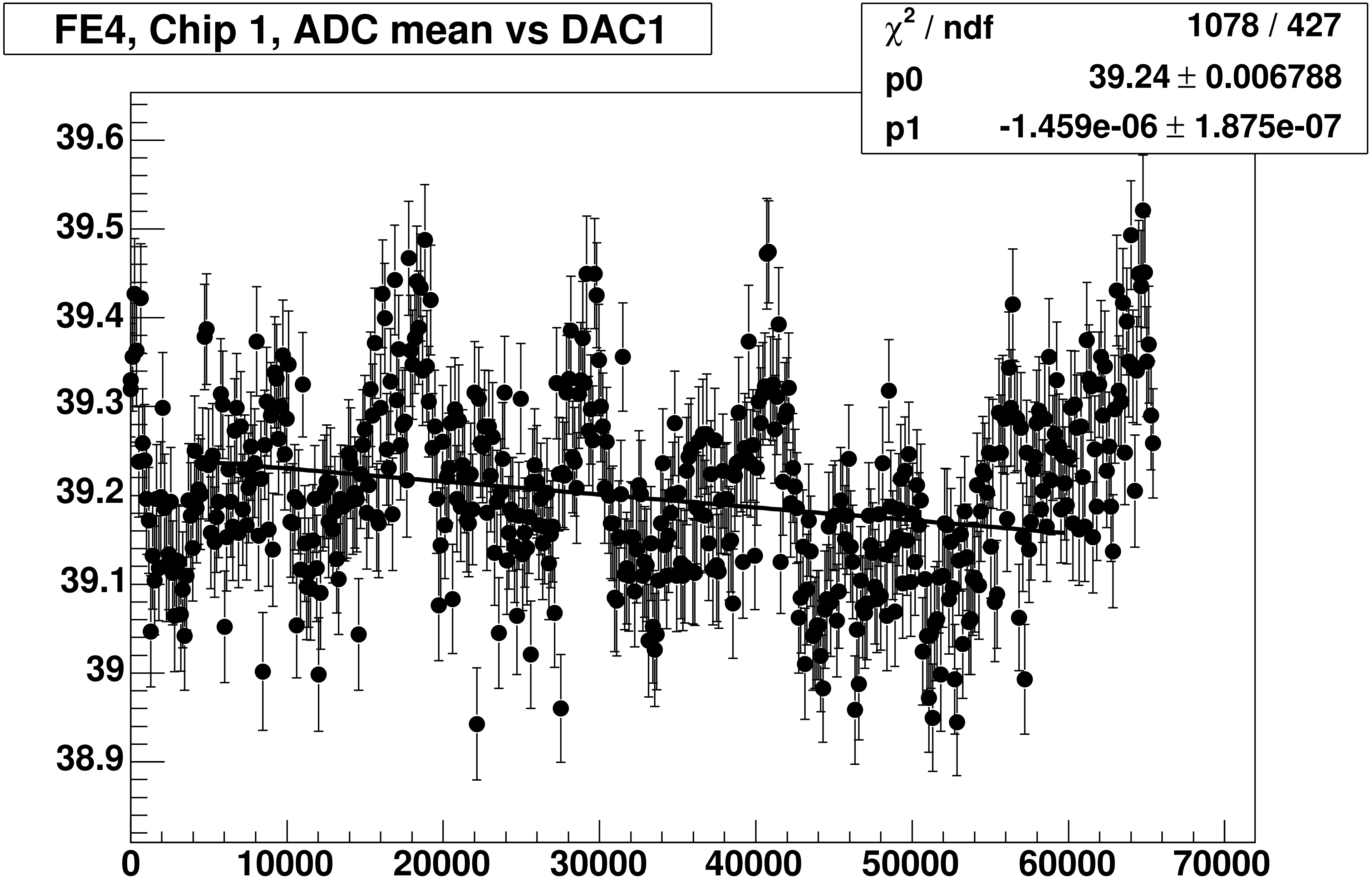
FE4, Chip 1, ADC mean vs DAC0
$\chi^2$ / ndf 8.623e+04 / 427
p0 42.81 ± 0.00713
p1 0.4495 ± 2.309e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000



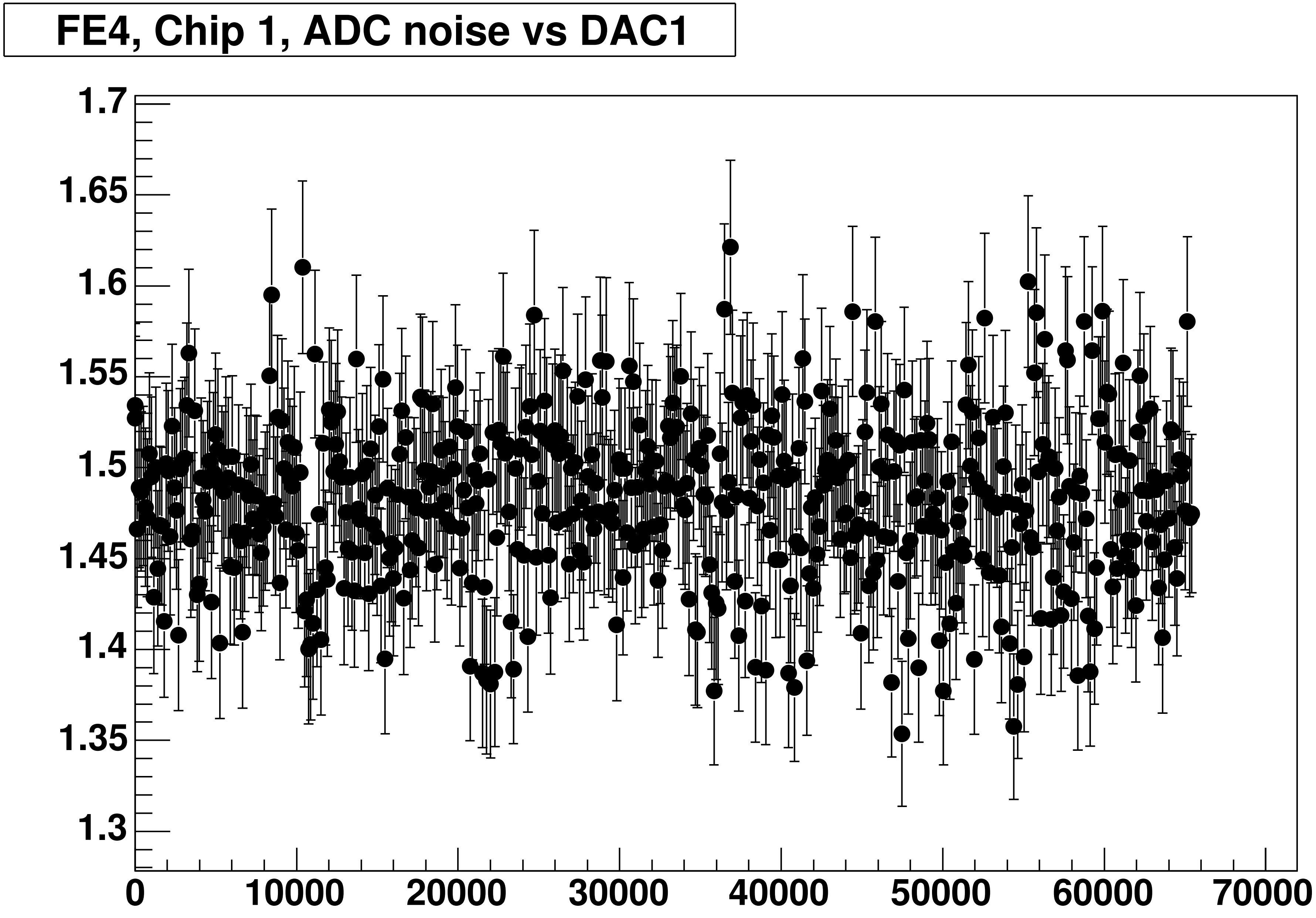
FE4, Chip 1, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000

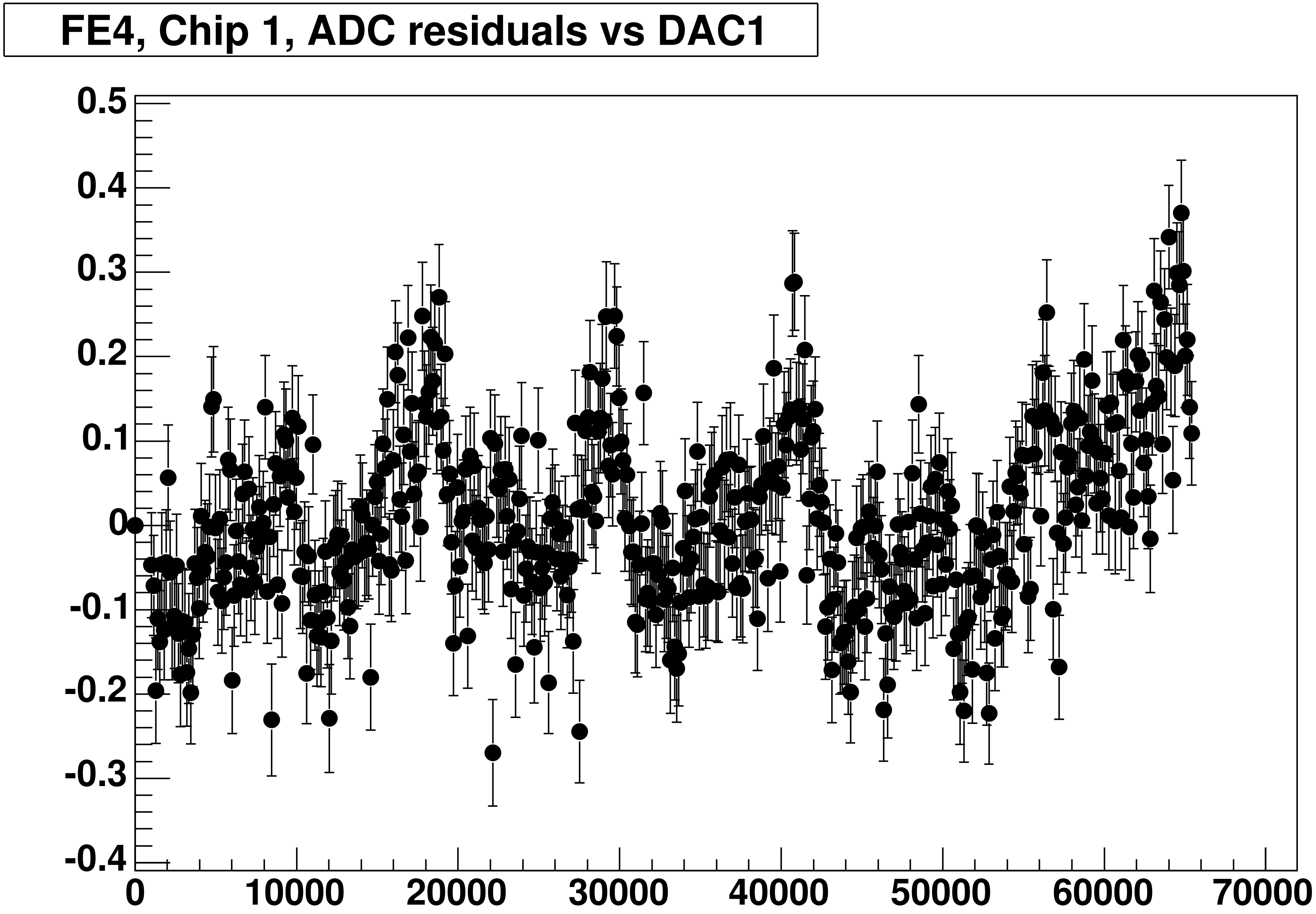


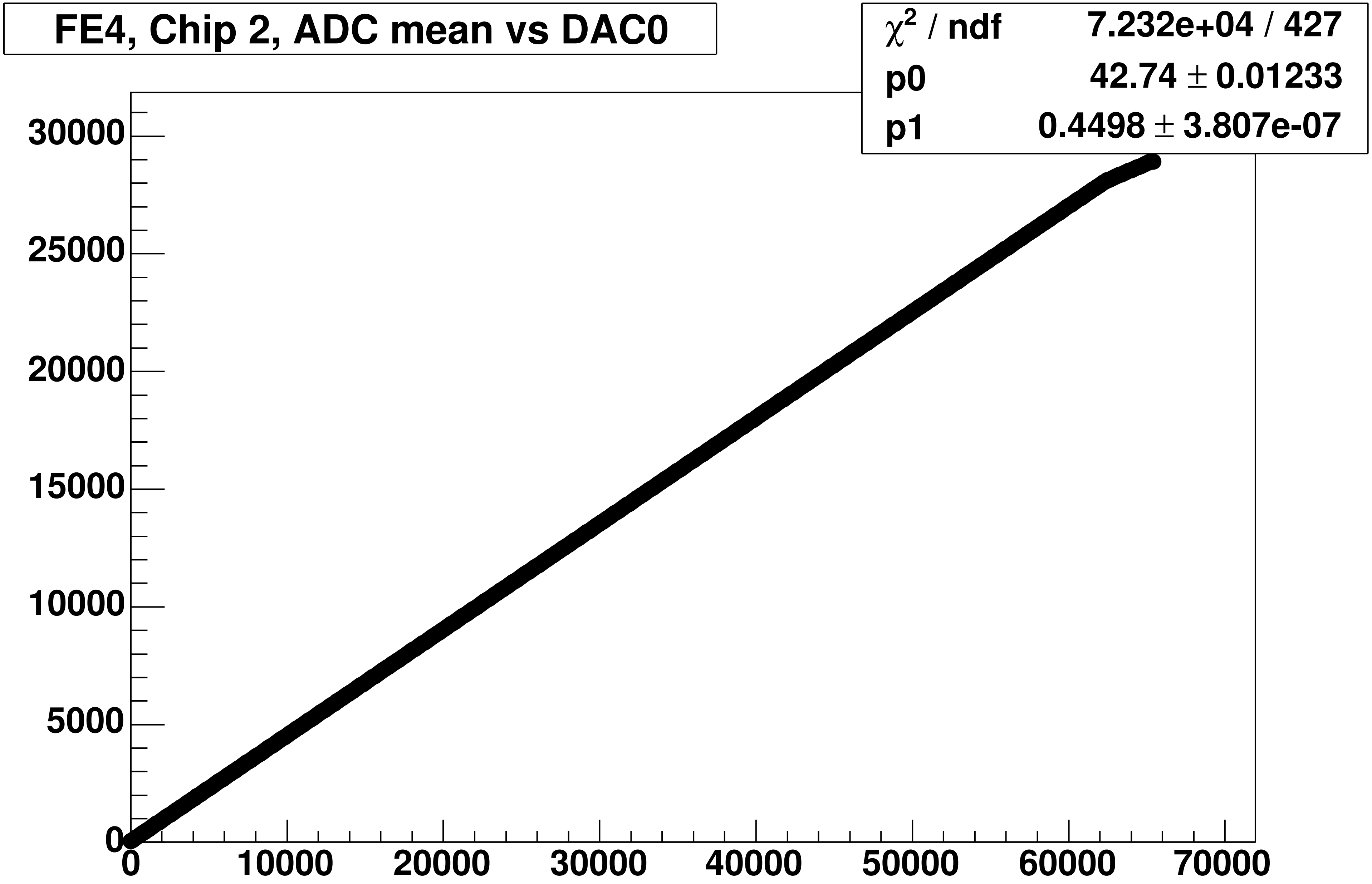
FE4, Chip 1, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000



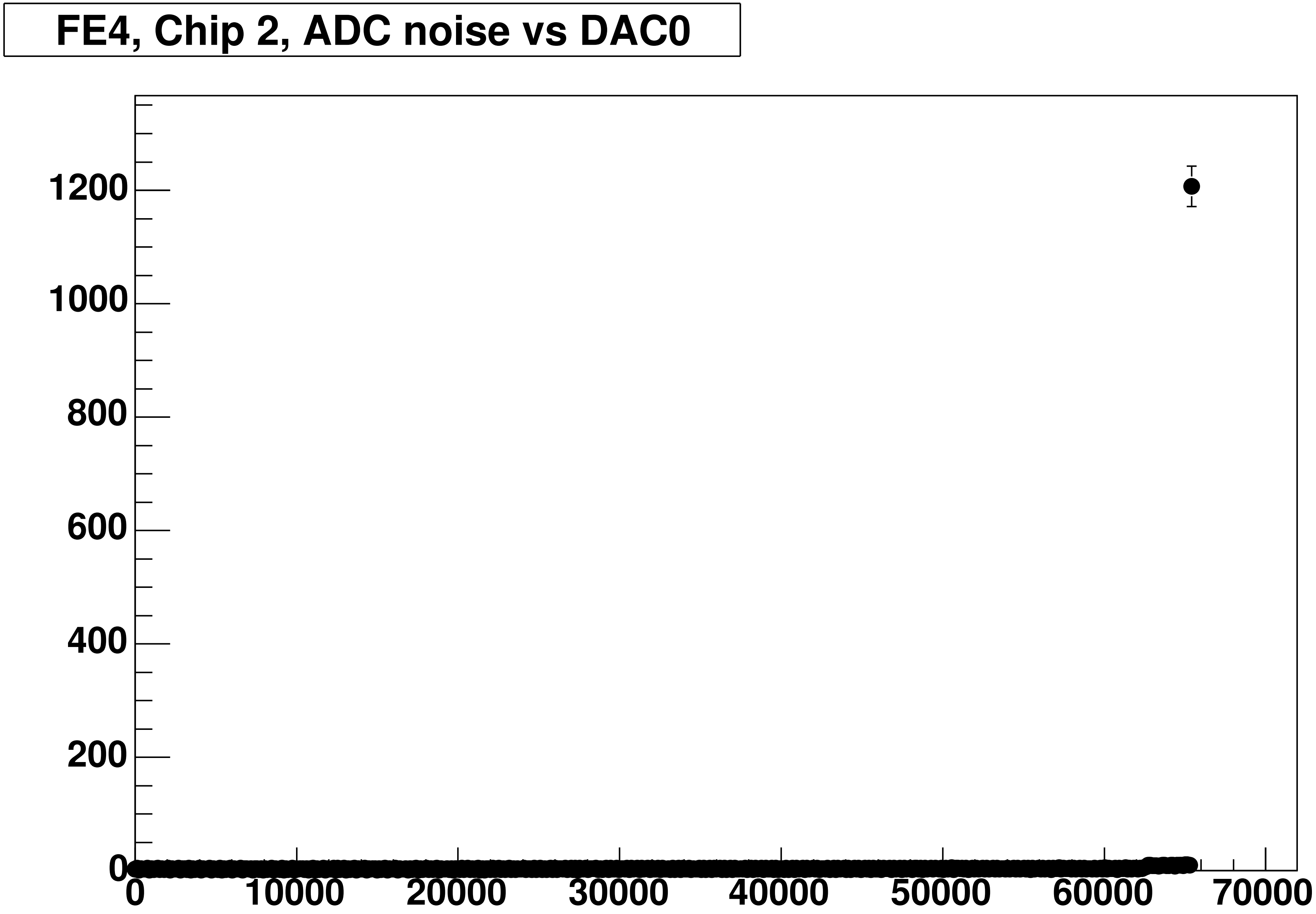
FE4, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 1078 / 427
p0 39.24 ± 0.006788
p1 -1.459e-06 ± 1.875e-07
39.6
39.5
39.4
39.3
39.2
39.1
39
38.9
0
10000
20000
30000
40000
50000
60000
70000

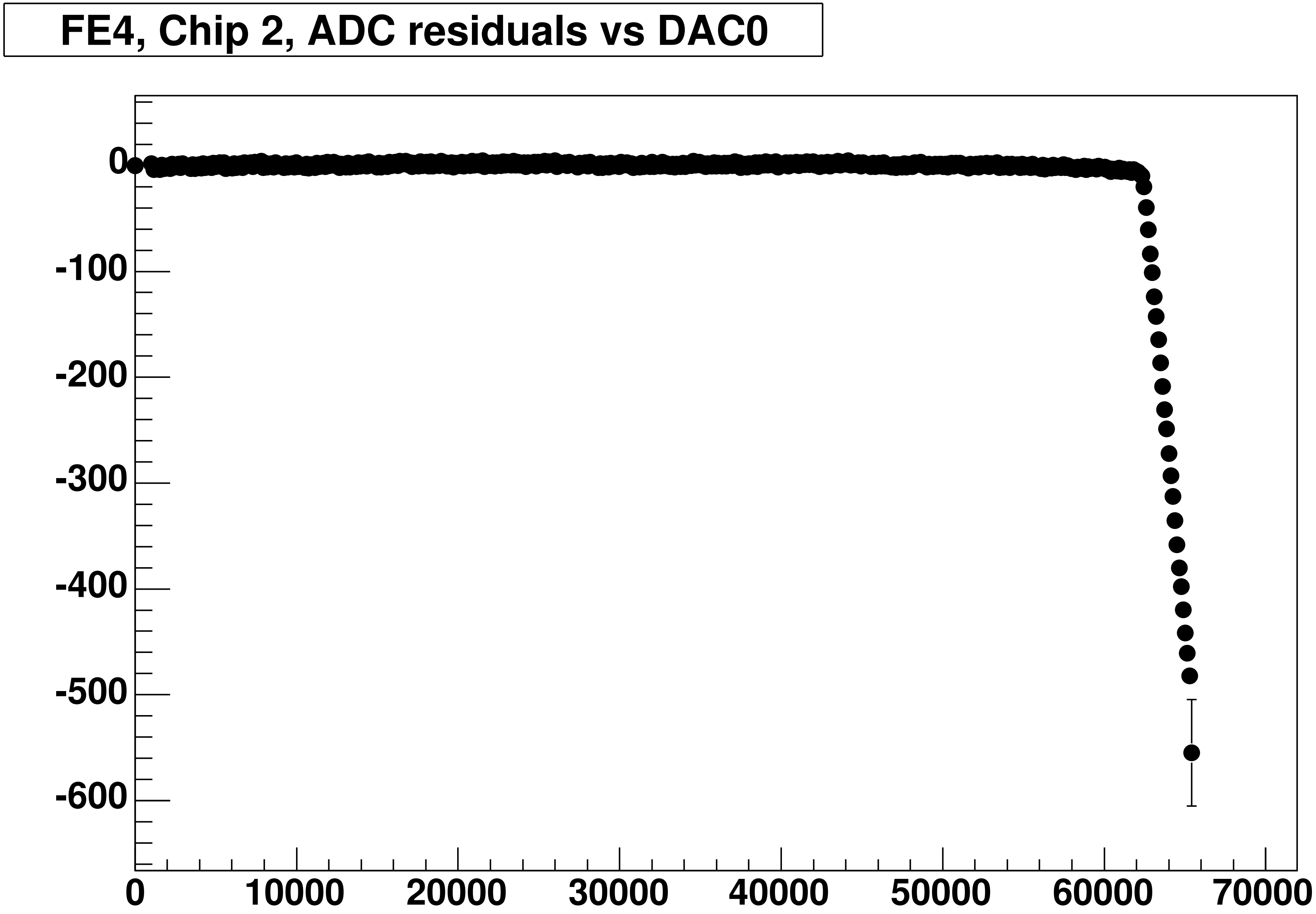

FE4, Chip 1, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000
70000

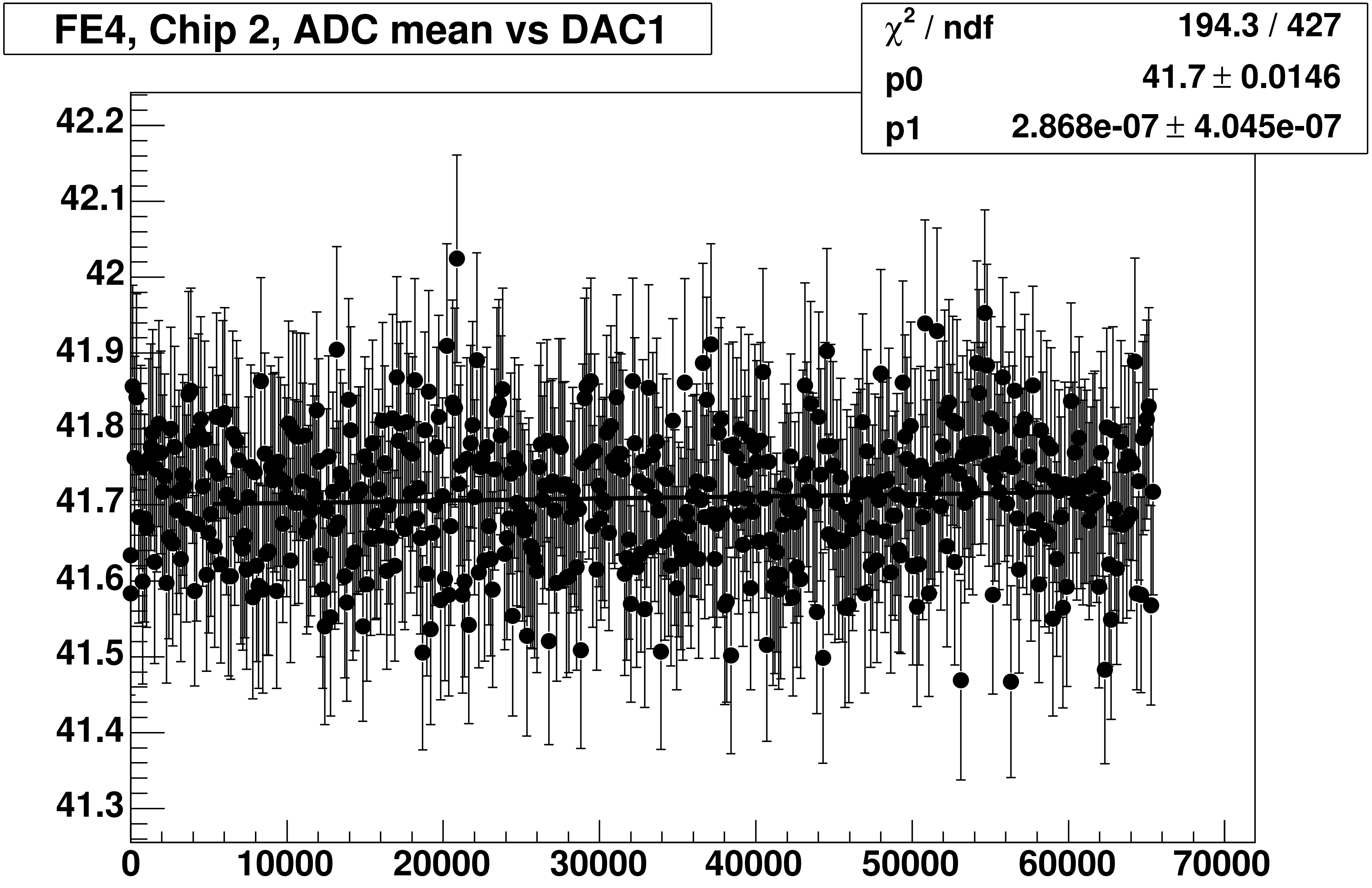

FE4, Chip 1, ADC residuals vs DAC1
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000
70000



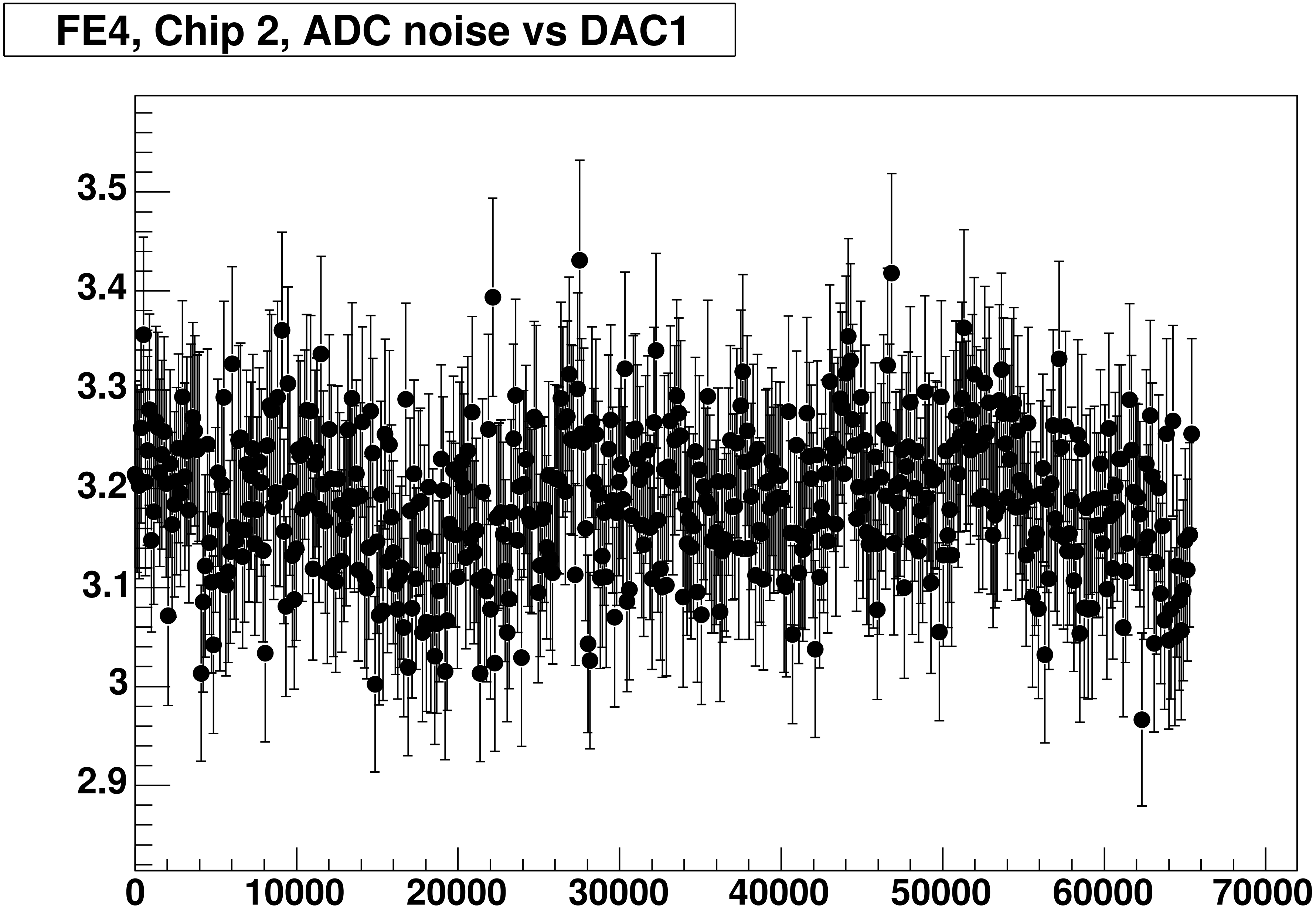
FE4, Chip 2, ADC mean vs DAC0
$\chi^2$ / ndf 7.232e+04 / 427
p0 42.74 ± 0.01233
p1 0.4498 ± 3.807e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000


FE4, Chip 2, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000

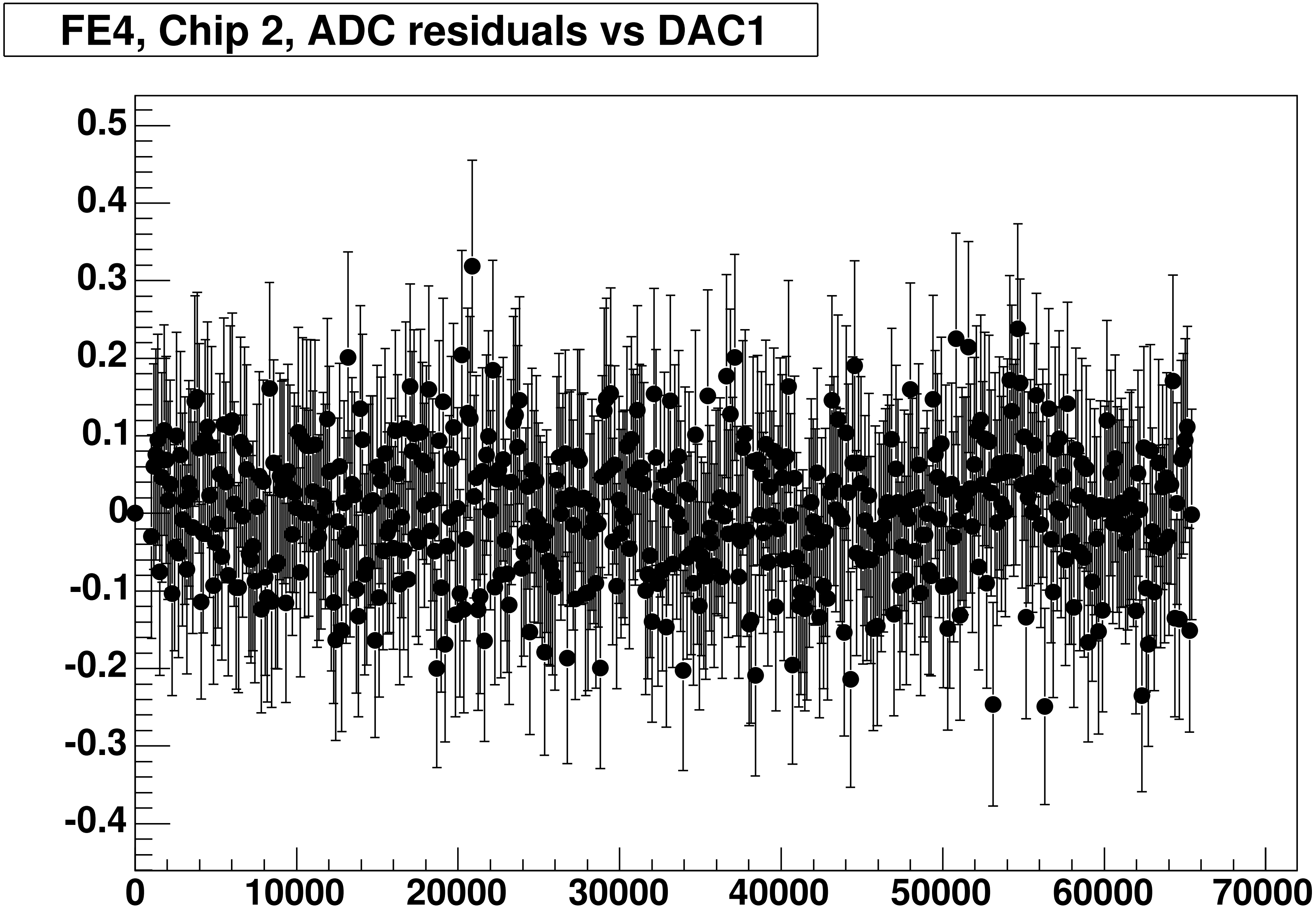

FE4, Chip 2, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000



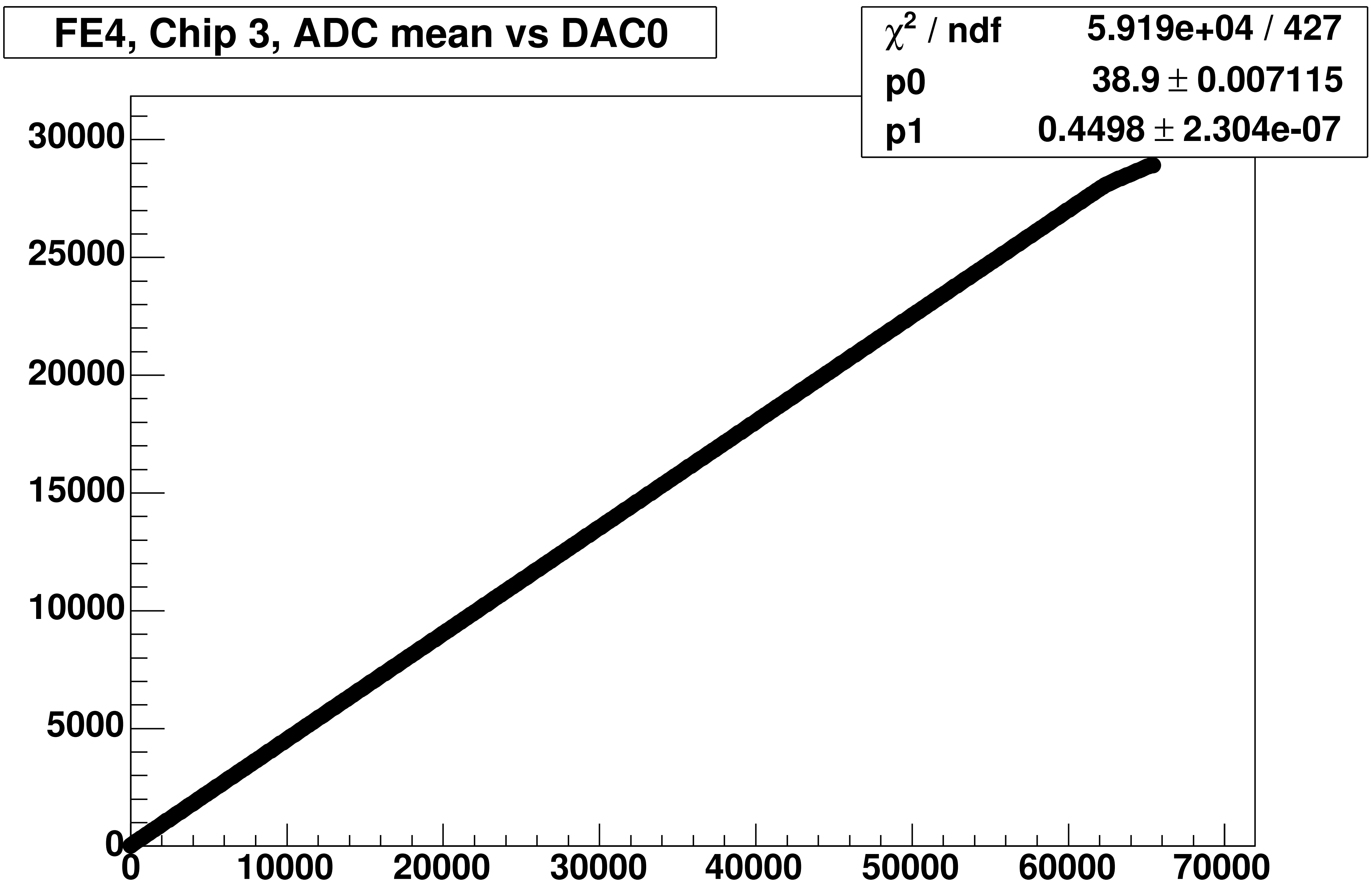
FE4, Chip 2, ADC mean vs DAC1
$\chi^2$ / ndf 194.3 / 427
p0 41.7 ± 0.0146
p1 2.868e-07 ± 4.045e-07
42.2
42.1
42
41.9
41.8
41.7
41.6
41.5
41.4
41.3
0
10000
20000
30000
40000
50000
60000
70000



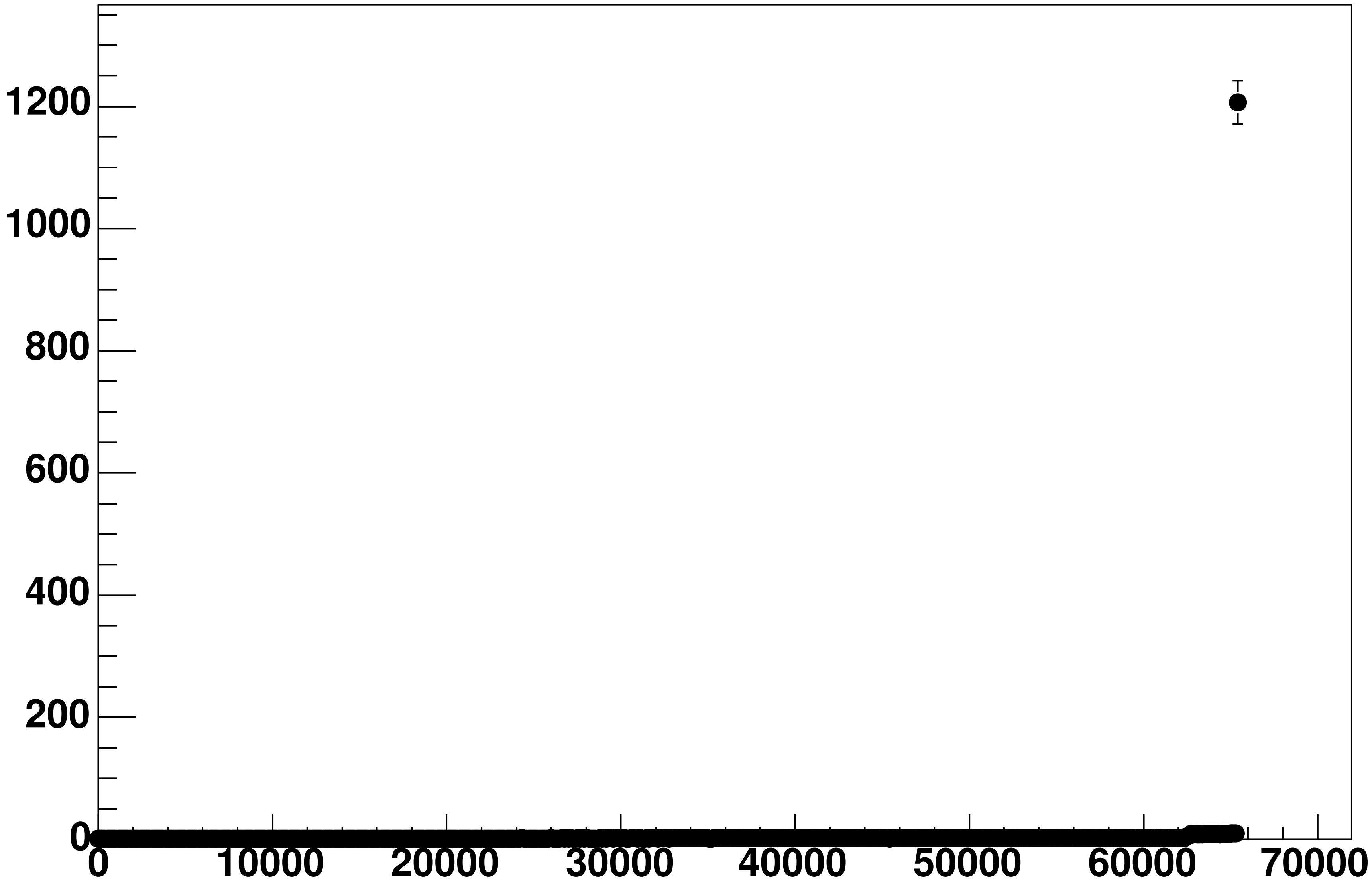
FE4, Chip 2, ADC noise vs DAC1
3.5
3.4
3.3
3.2
3.1
3
2.9
0
10000
20000
30000
40000
50000
60000
70000

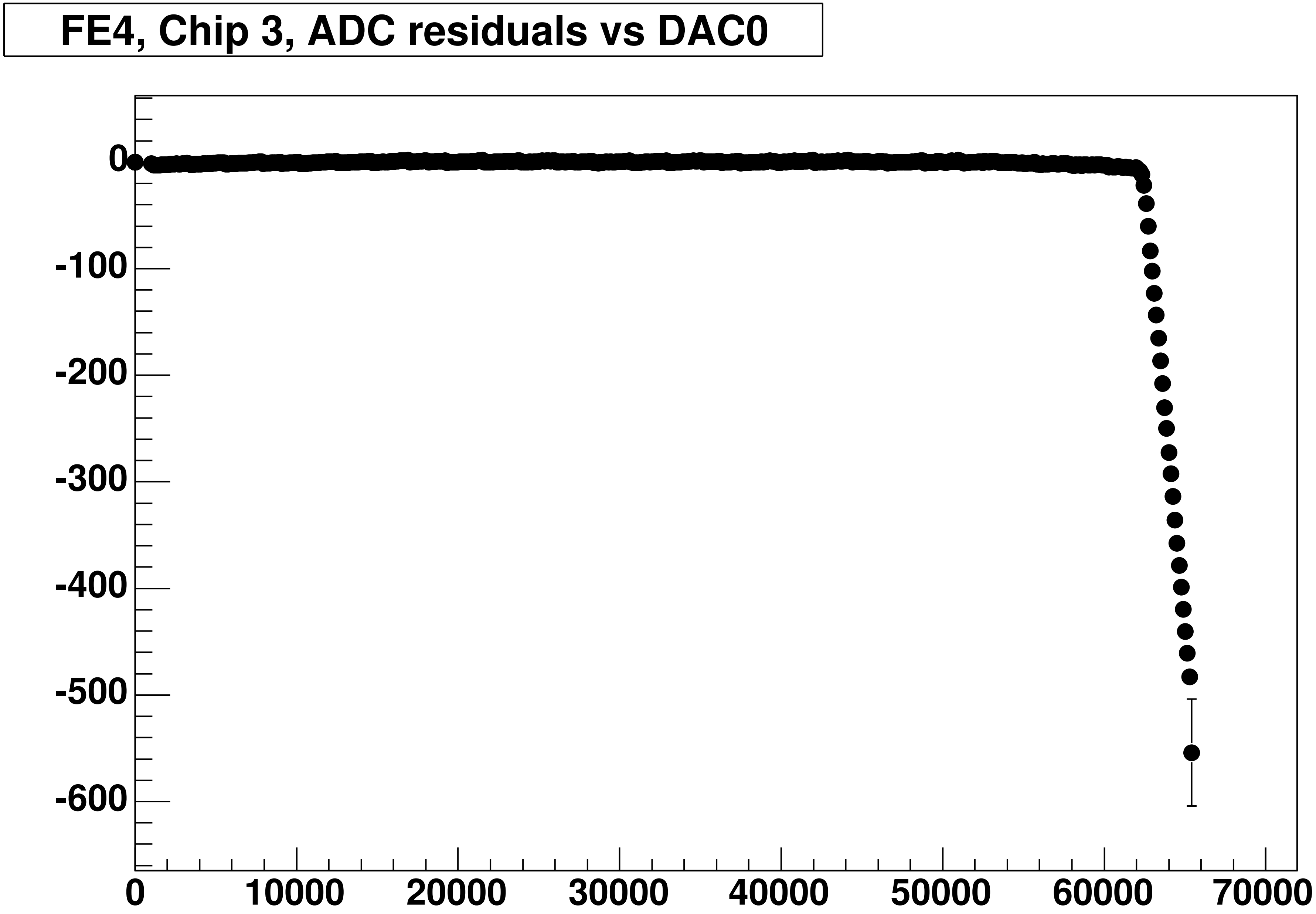


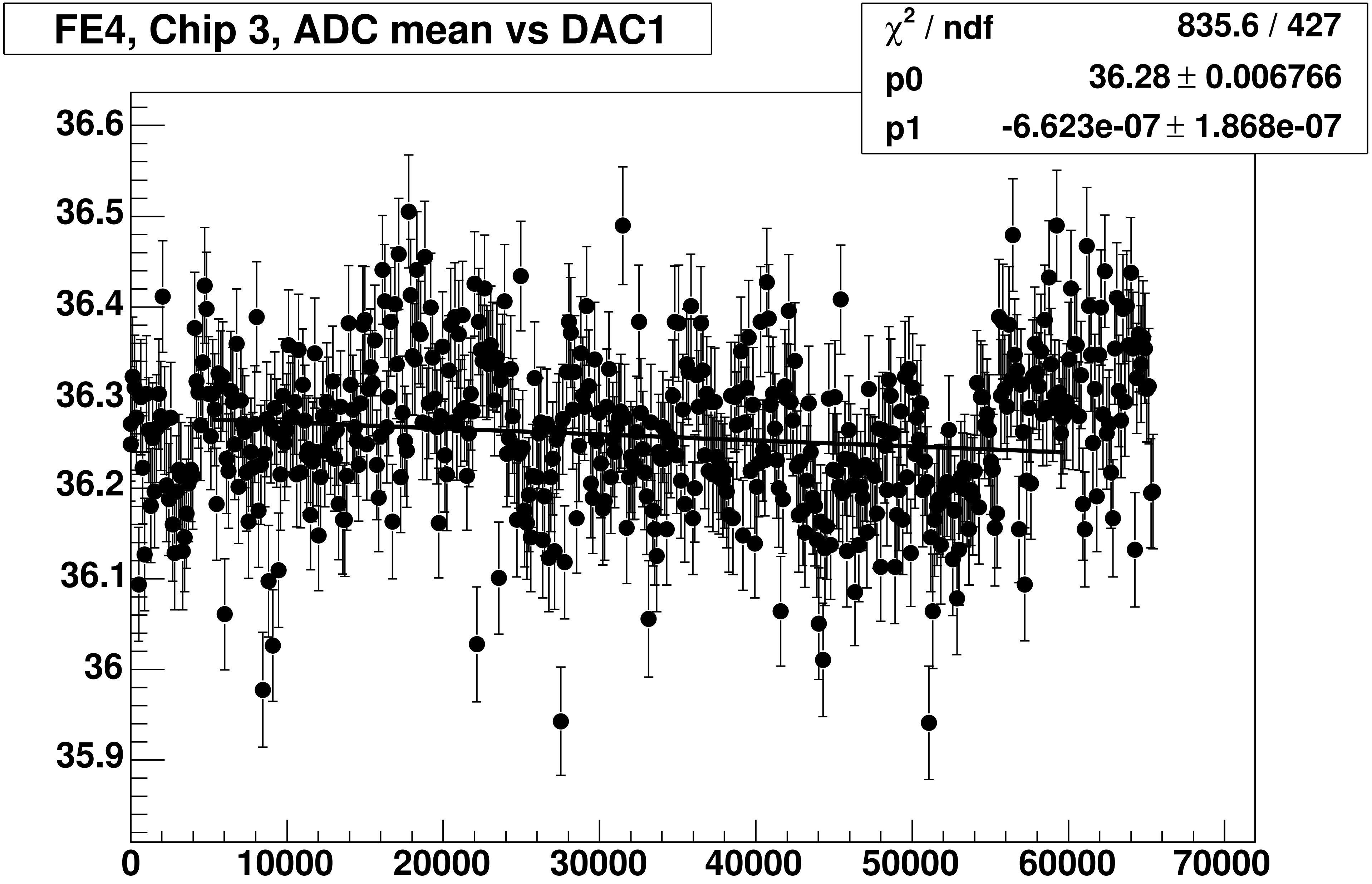
FE4, Chip 2, ADC residuals vs DAC1
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000
70000


FE4, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 5.919e+04 / 427
p0 38.9 ± 0.007115
p1 0.4498 ± 2.304e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

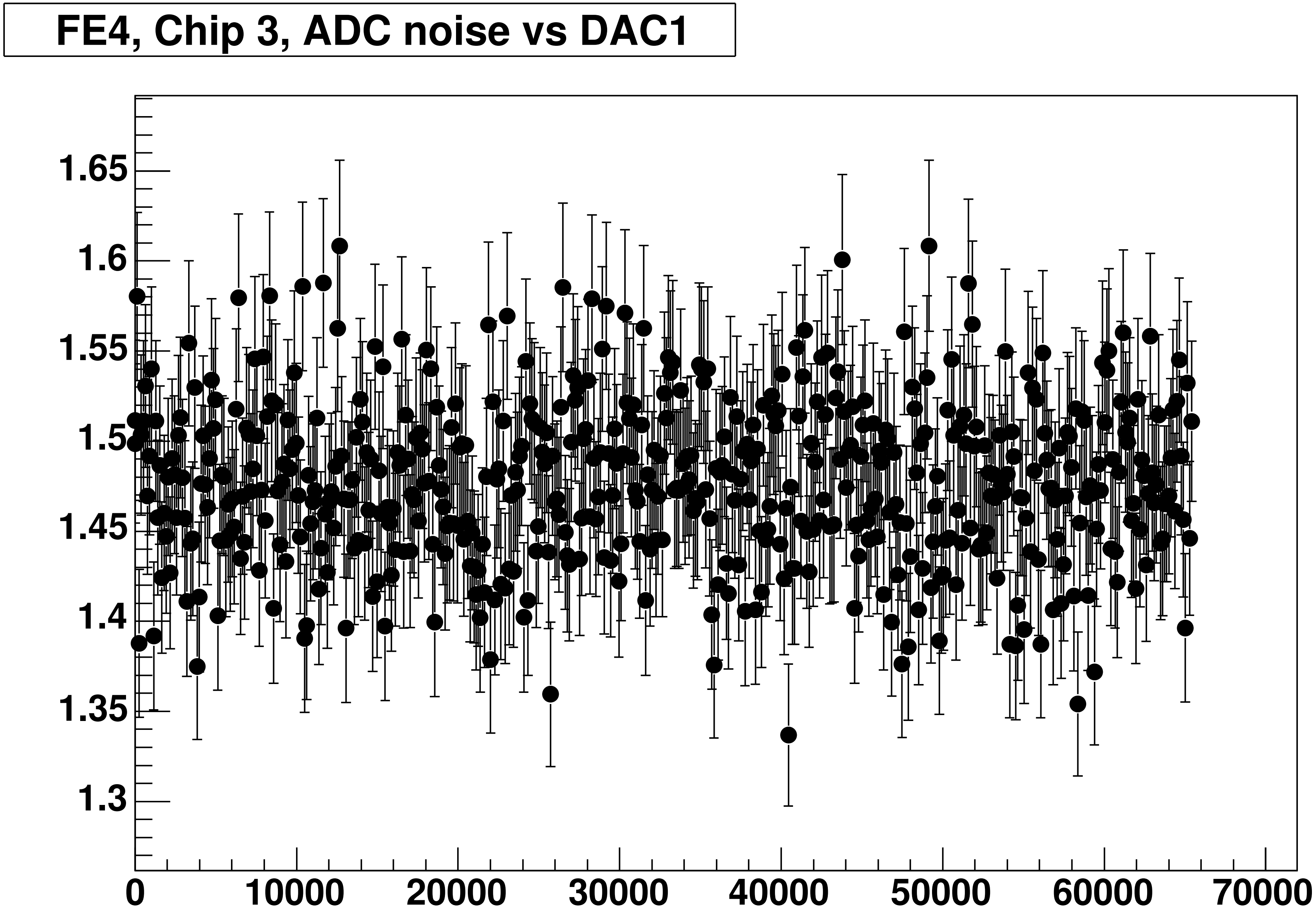
FE4, Chip 3, ADC noise vs DAC0

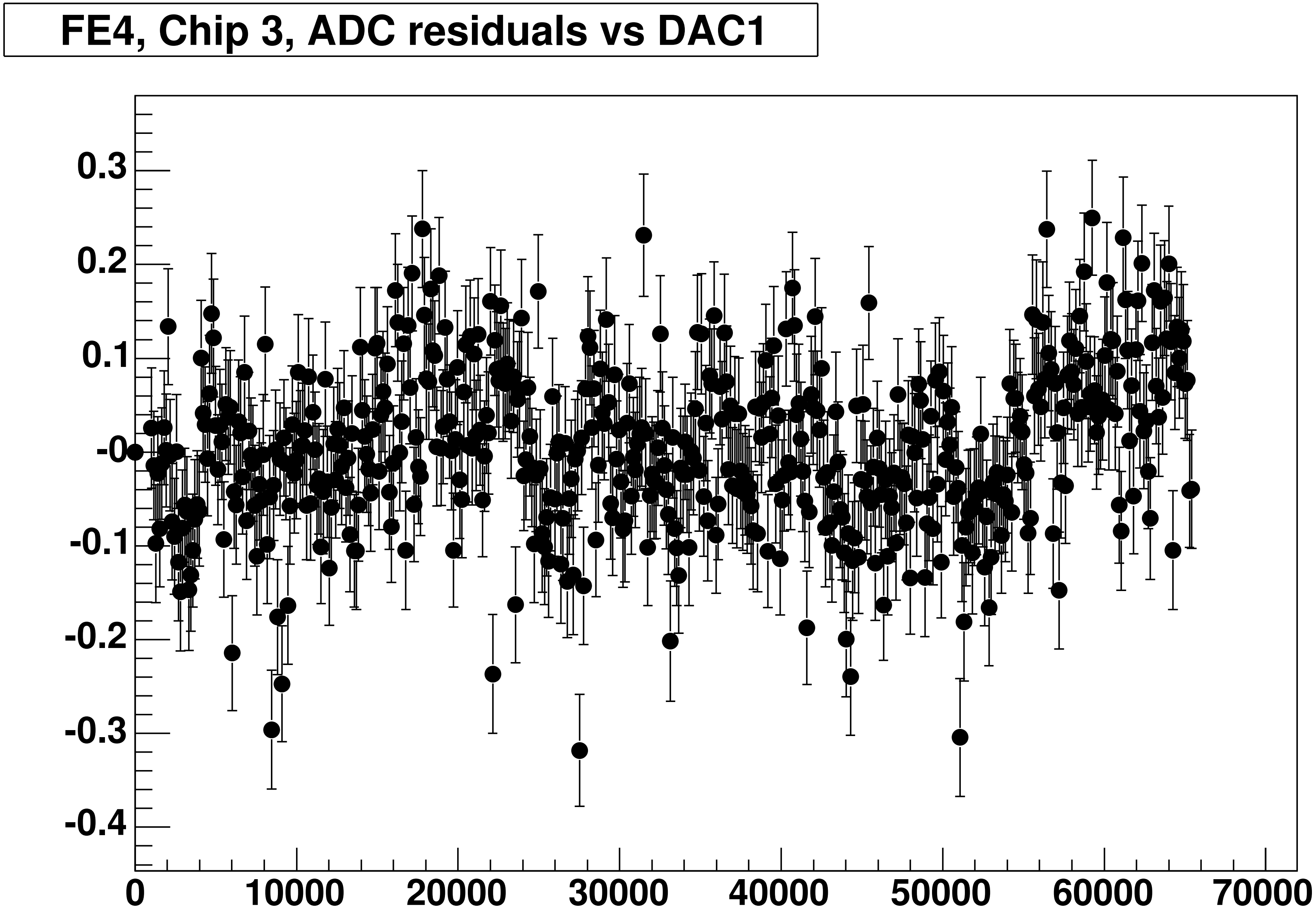


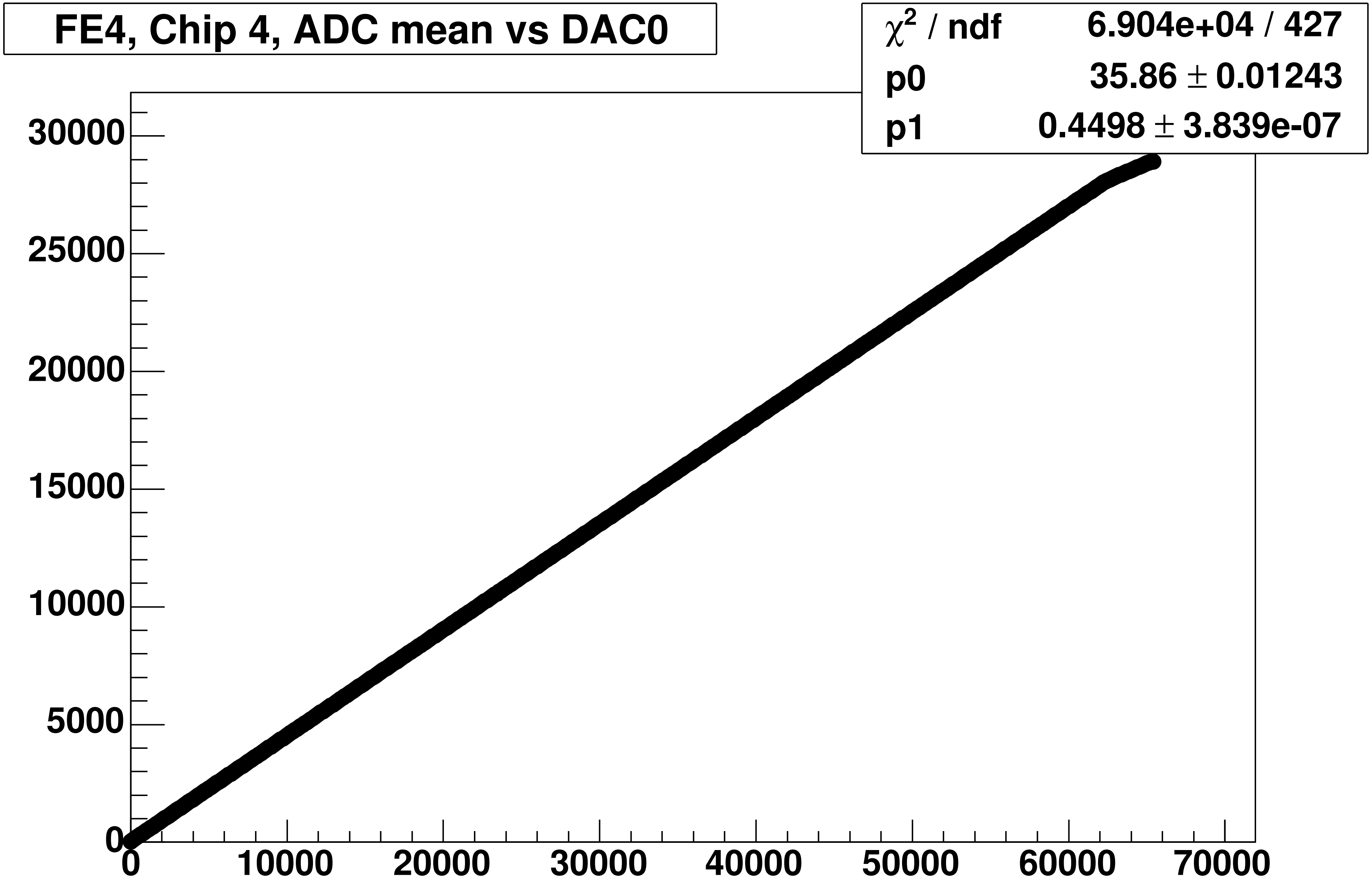

FE4, Chip 3, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000



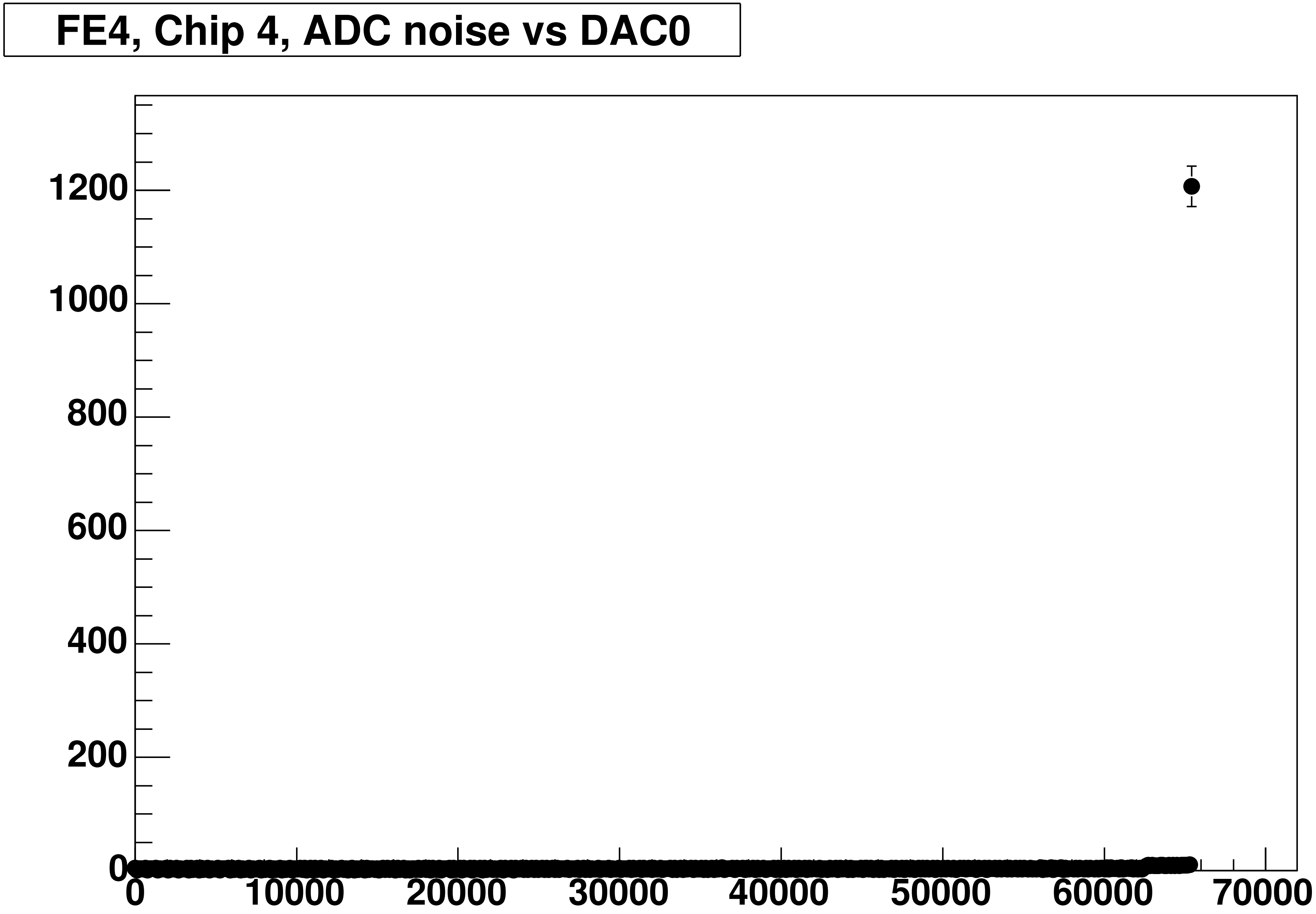
FE4, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 835.6 / 427
p0 36.28 ± 0.006766
p1 -6.623e-07 ± 1.868e-07
36.6
36.5
36.4
36.3
36.2
36.1
36
35.9
0
10000
20000
30000
40000
50000
60000
70000


FE4, Chip 3, ADC noise vs DAC1
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000
70000

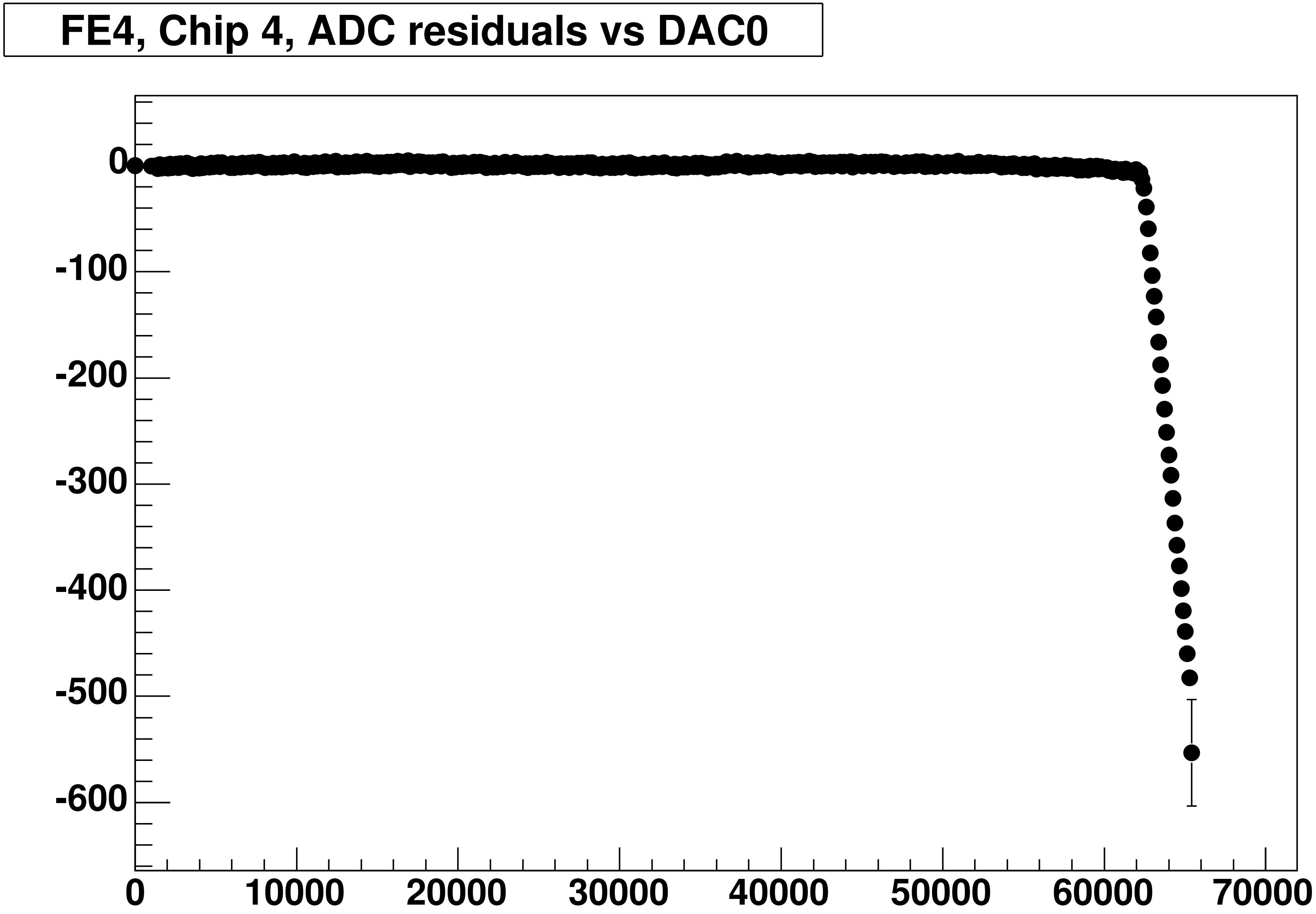

FE4, Chip 3, ADC residuals vs DAC1
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000
70000

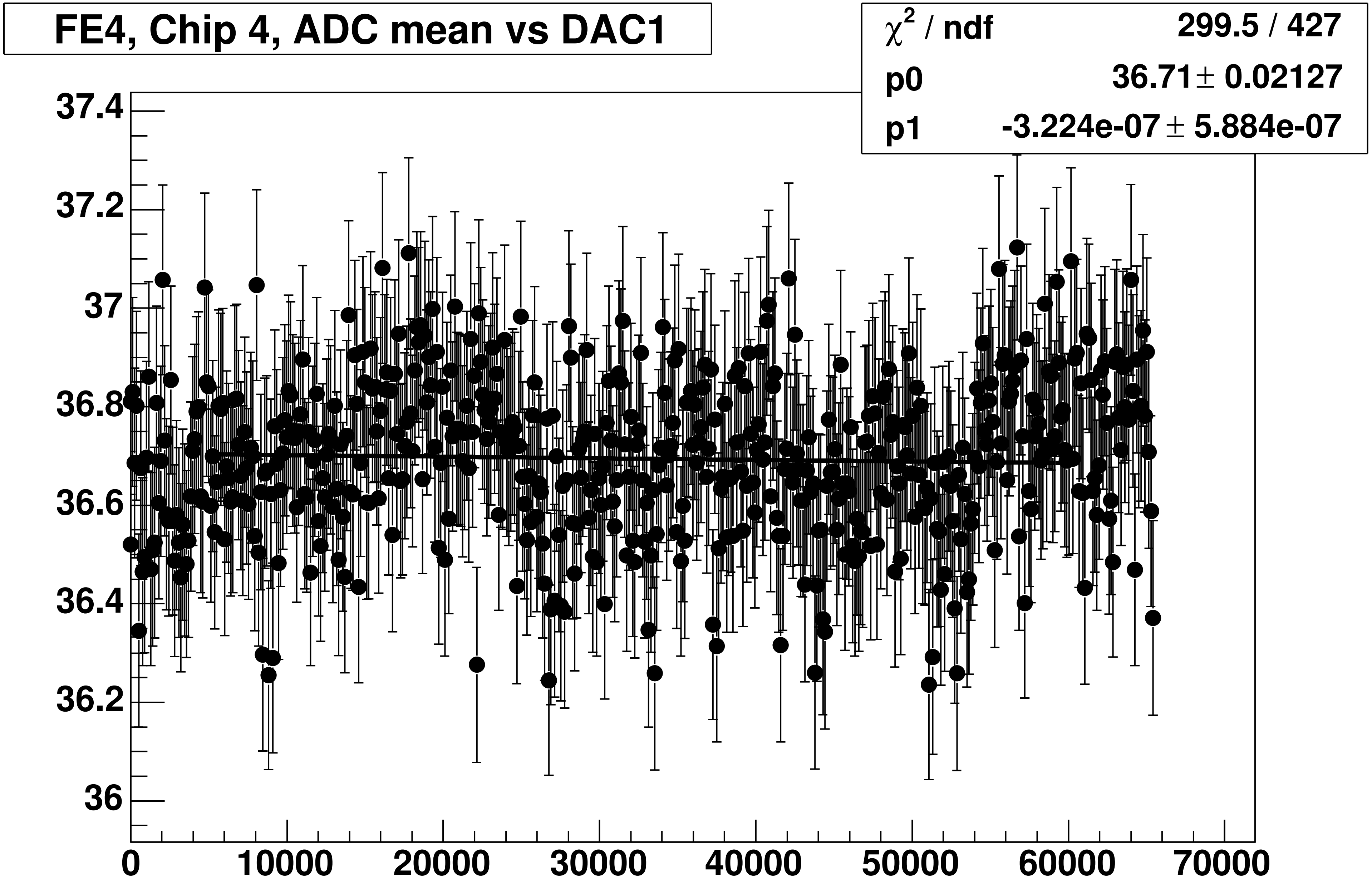


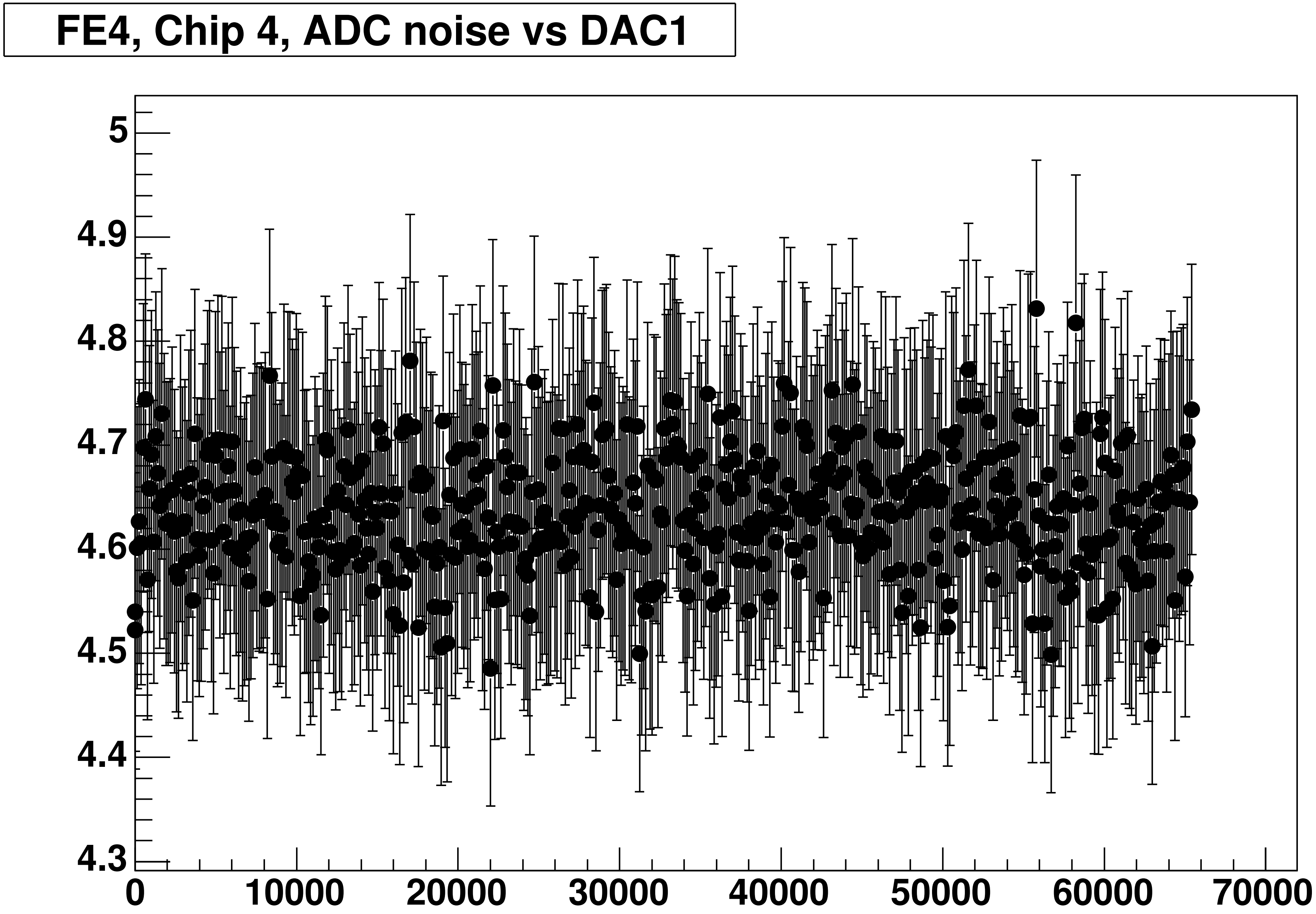
FE4, Chip 4, ADC mean vs DAC0
χ2 / ndf 6.904e+04 / 427
p0 35.86 ± 0.01243
p1 0.4498 ± 3.839e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000



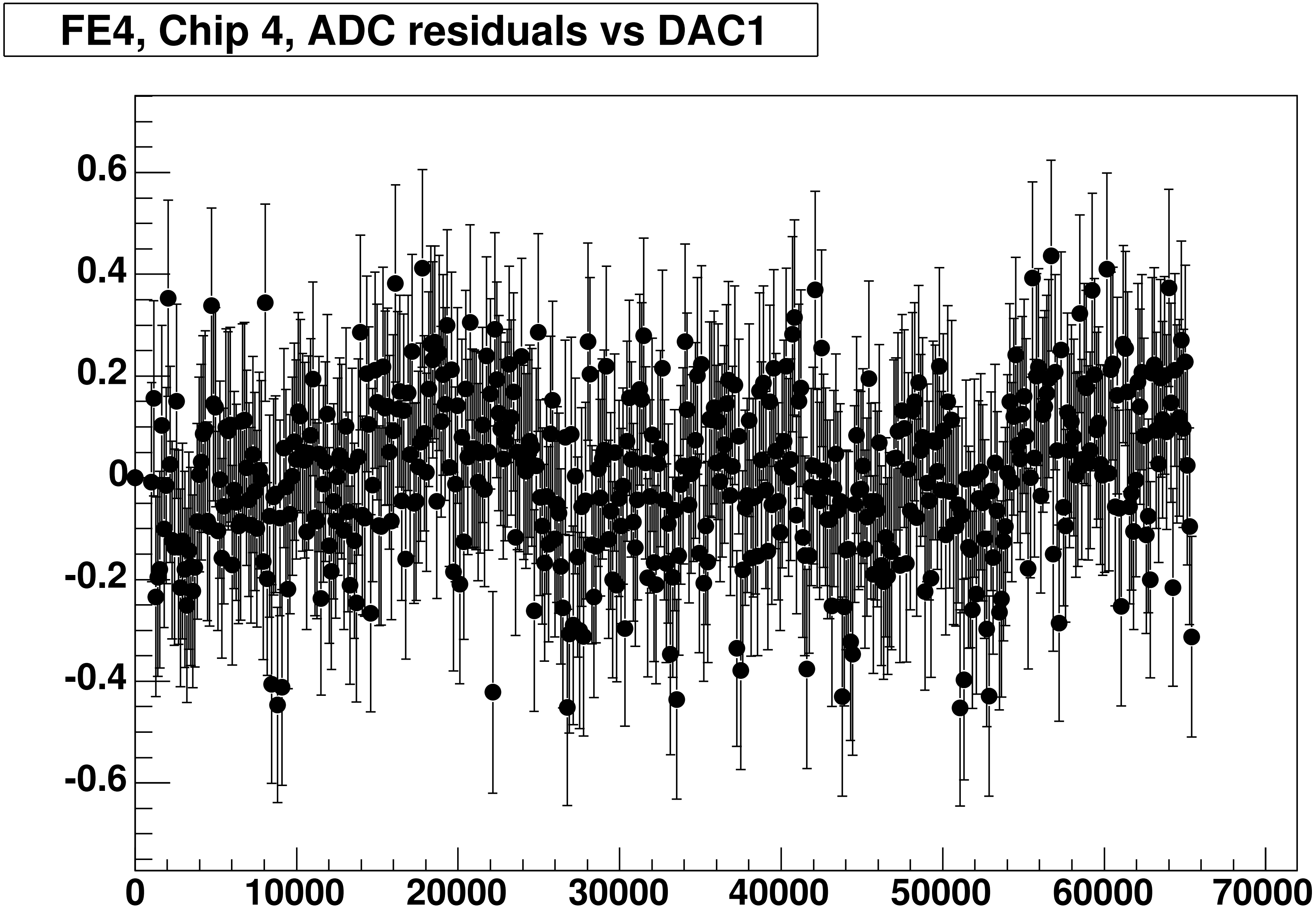
FE4, Chip 4, ADC noise vs DAC0
0
200
400
600
800
1000
1200
0
10000
20000
30000
40000
50000
60000
70000

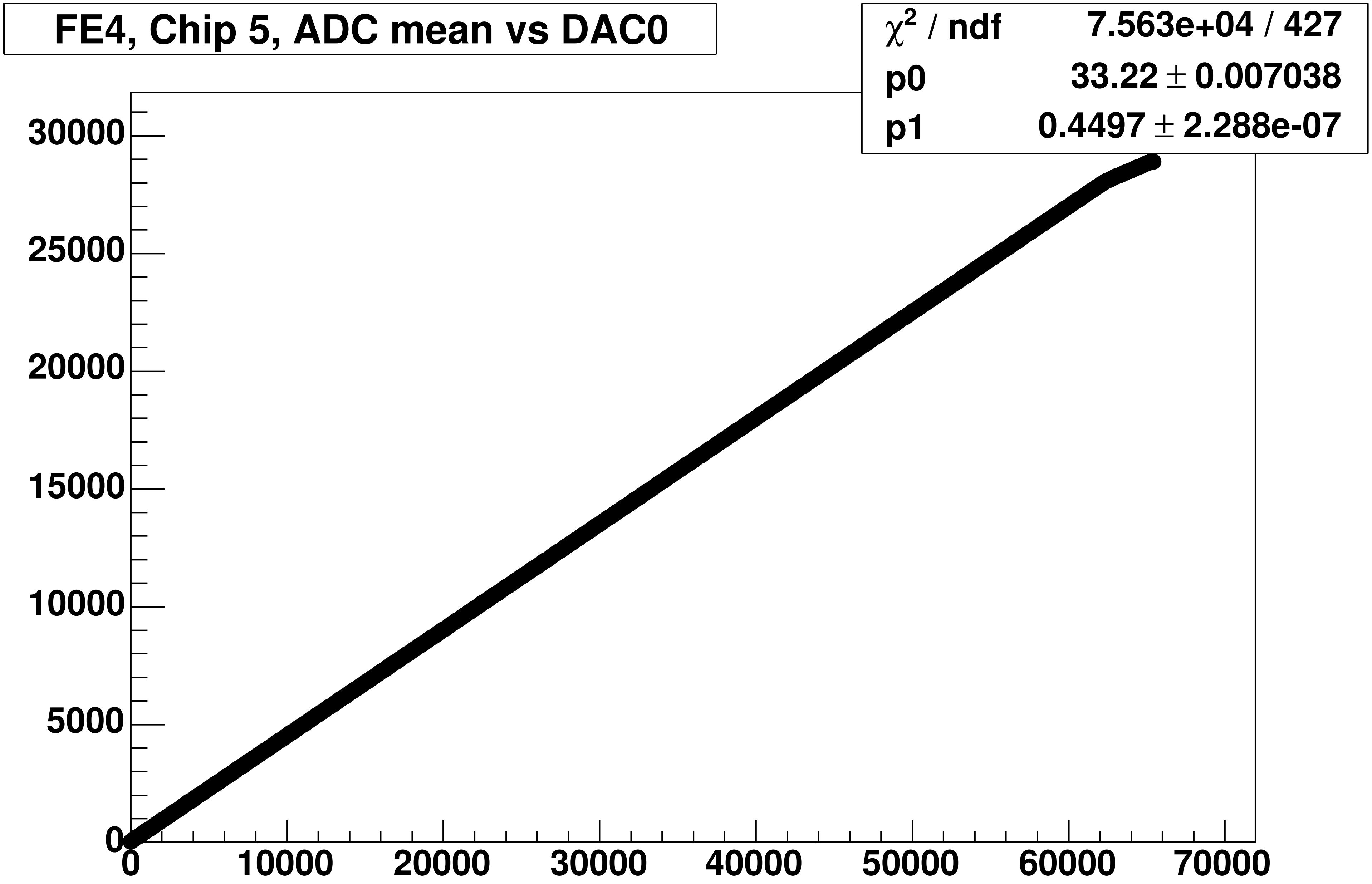

FE4, Chip 4, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000

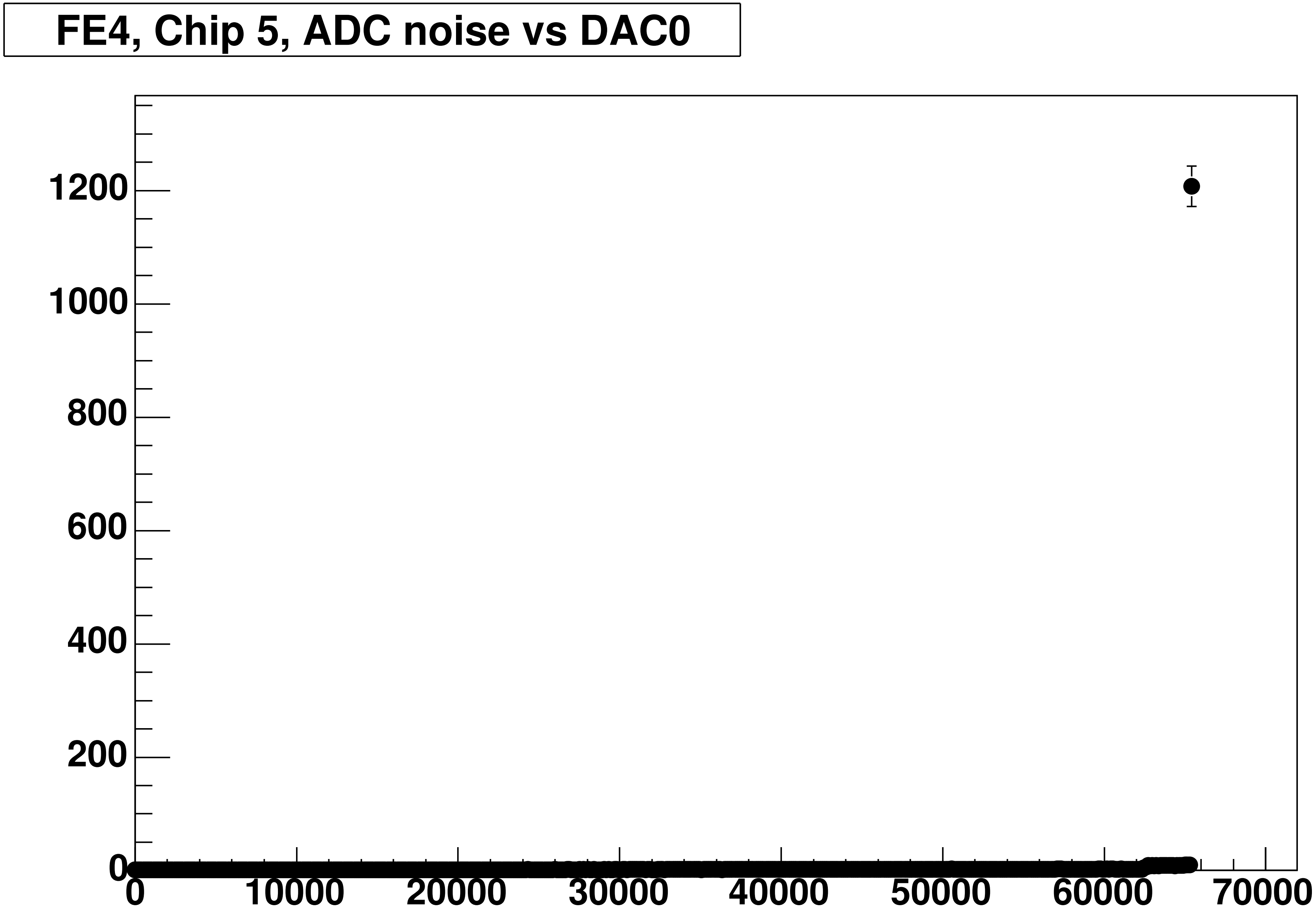

FE4, Chip 4, ADC mean vs DAC1
$\chi^2$ / ndf 299.5 / 427
p0 36.71 ± 0.02127
p1 -3.224e-07 ± 5.884e-07
37.4
37.2
37
36.8
36.6
36.4
36.2
36
0
10000
20000
30000
40000
50000
60000
70000

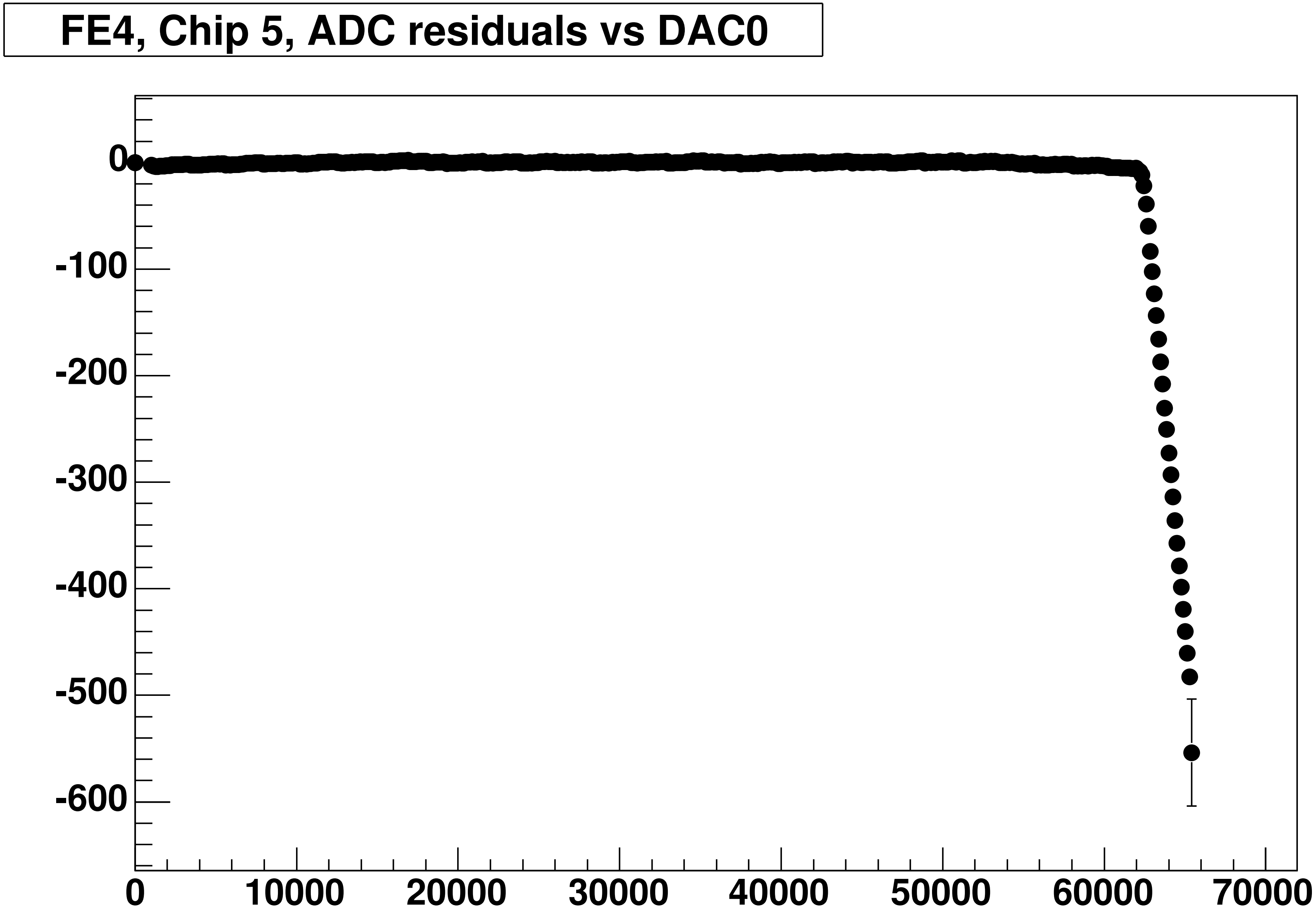


FE4, Chip 4, ADC noise vs DAC1
5
4.9
4.8
4.7
4.6
4.5
4.4
4.3
0
10000
20000
30000
40000
50000
60000
70000

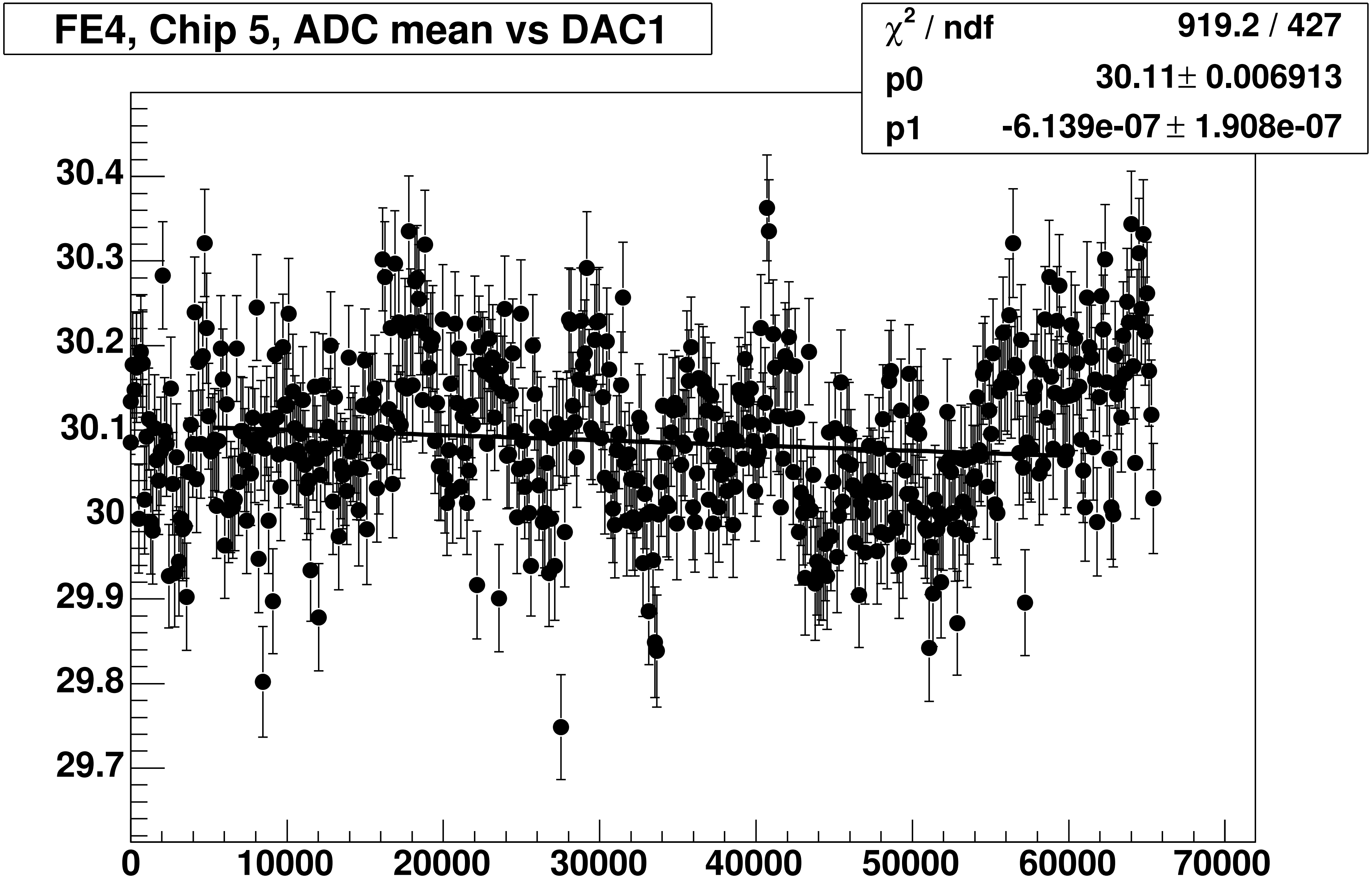

FE4, Chip 4, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000

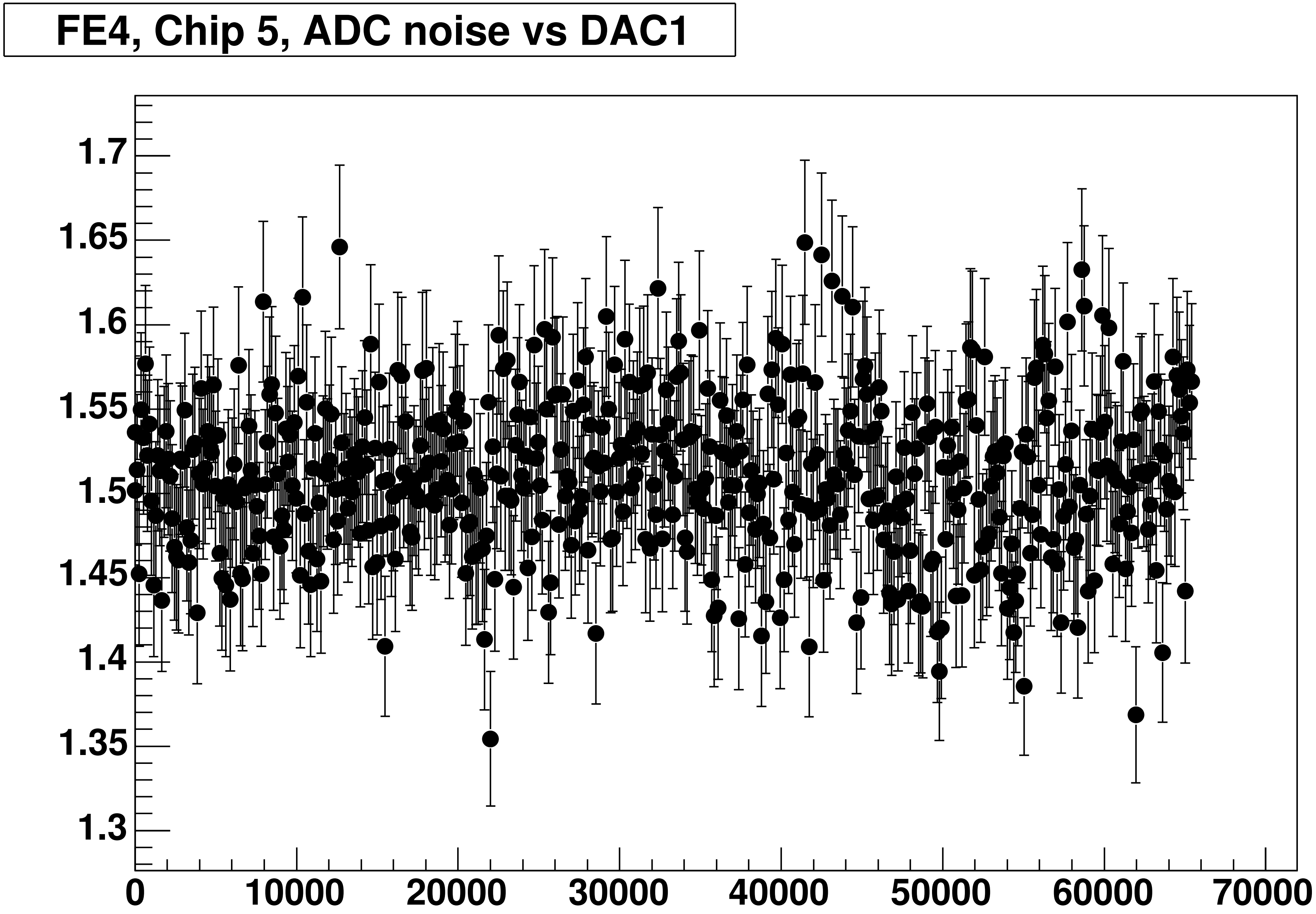

FE4, Chip 5, ADC mean vs DAC0
χ² / ndf 7.563e+04 / 427
p0 33.22 ± 0.007038
p1 0.4497 ± 2.288e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

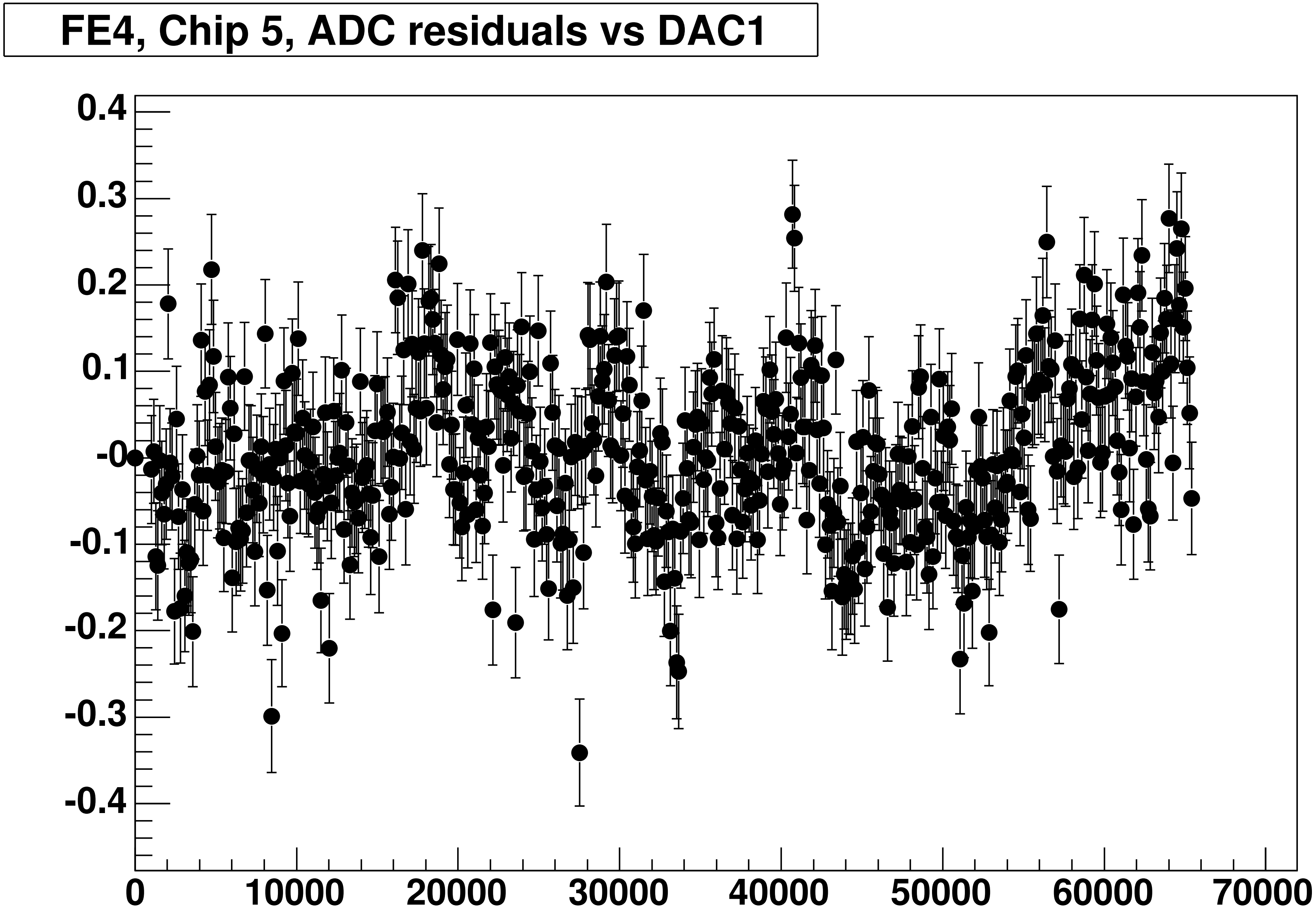

FE4, Chip 5, ADC noise vs DAC0
1200
1000
800
600
400
200
0
0
10000
20000
30000
40000
50000
60000
70000



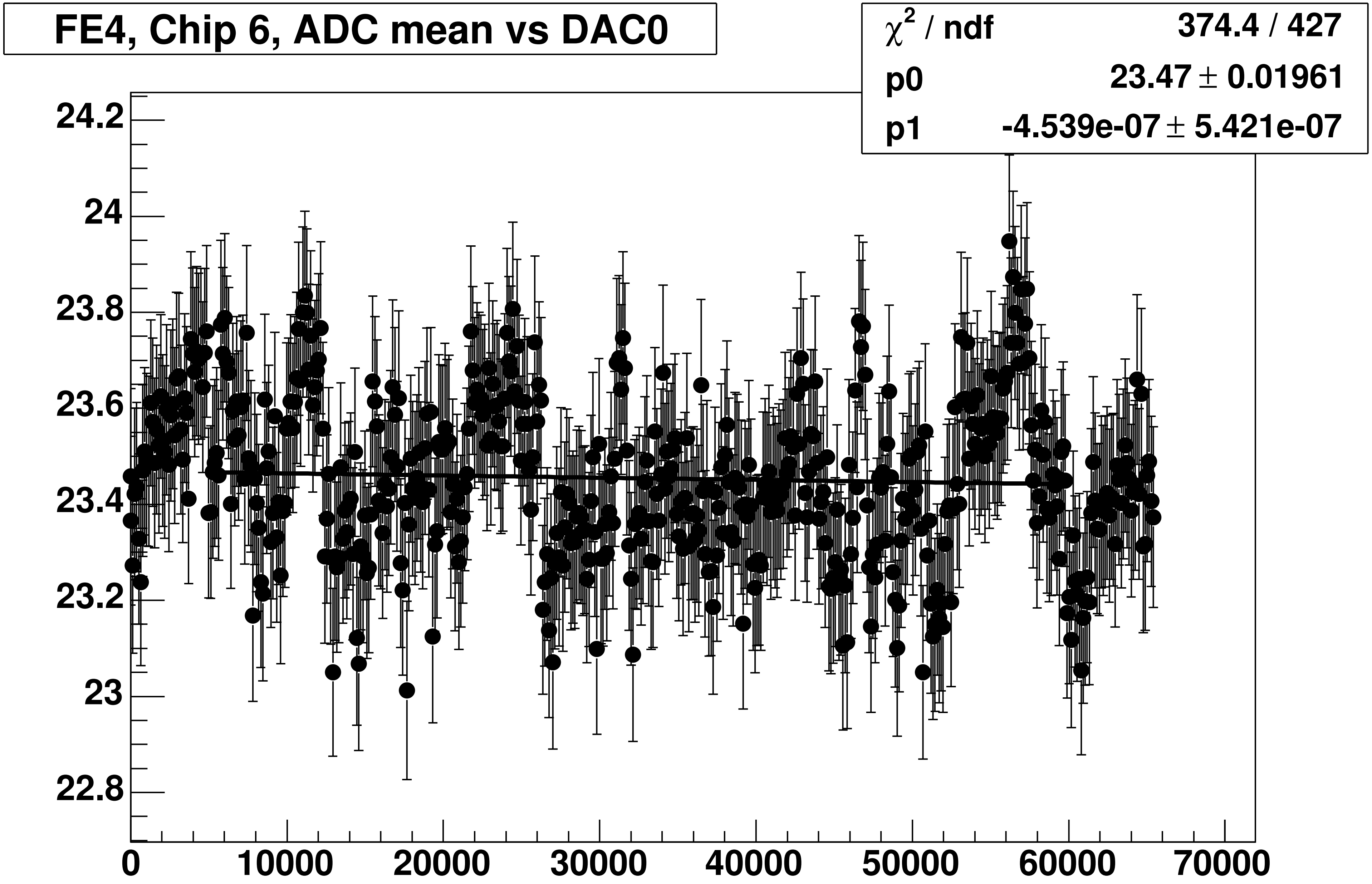
FE4, Chip 5, ADC residuals vs DAC0
0
-100
-200
-300
-400
-500
-600
0
10000
20000
30000
40000
50000
60000
70000


FE4, Chip 5, ADC mean vs DAC1
$\chi^2$ / ndf 919.2 / 427
p0 30.11± 0.006913
p1 -6.139e-07 ± 1.908e-07
30.4
30.3
30.2
30.1
30
29.9
29.8
29.7
0
10000
20000
30000
40000
50000
60000
70000

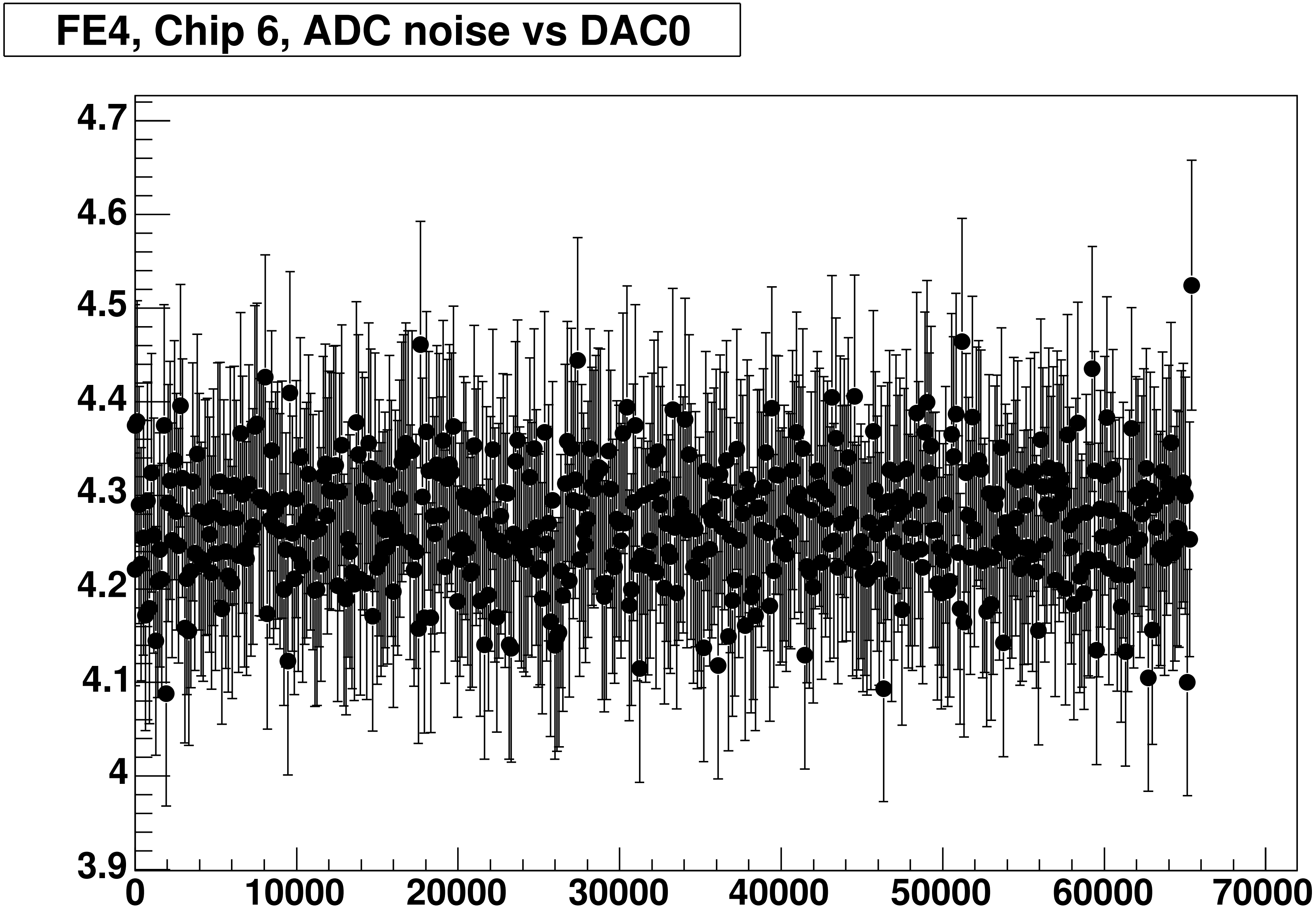

FE4, Chip 5, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000
70000

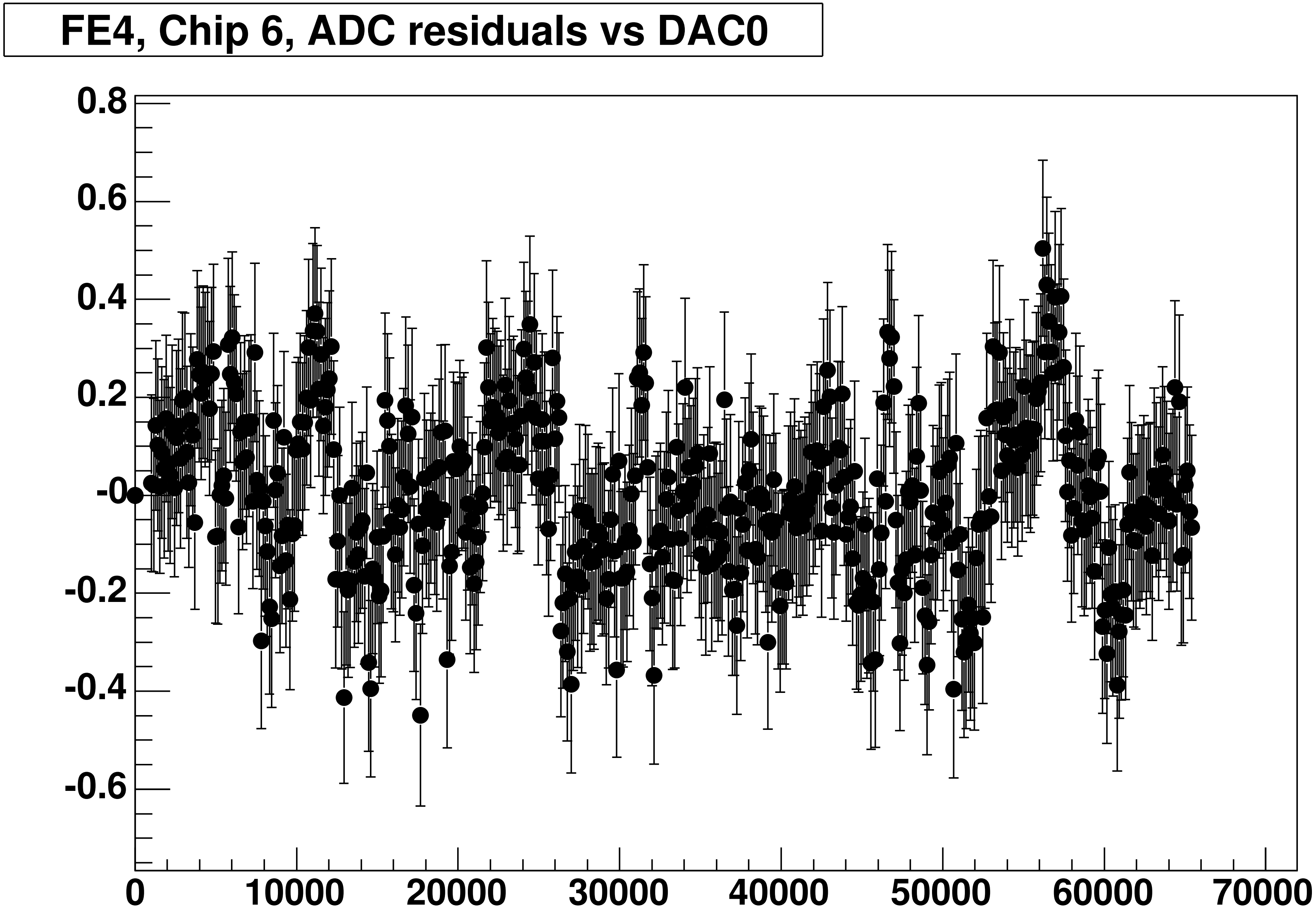


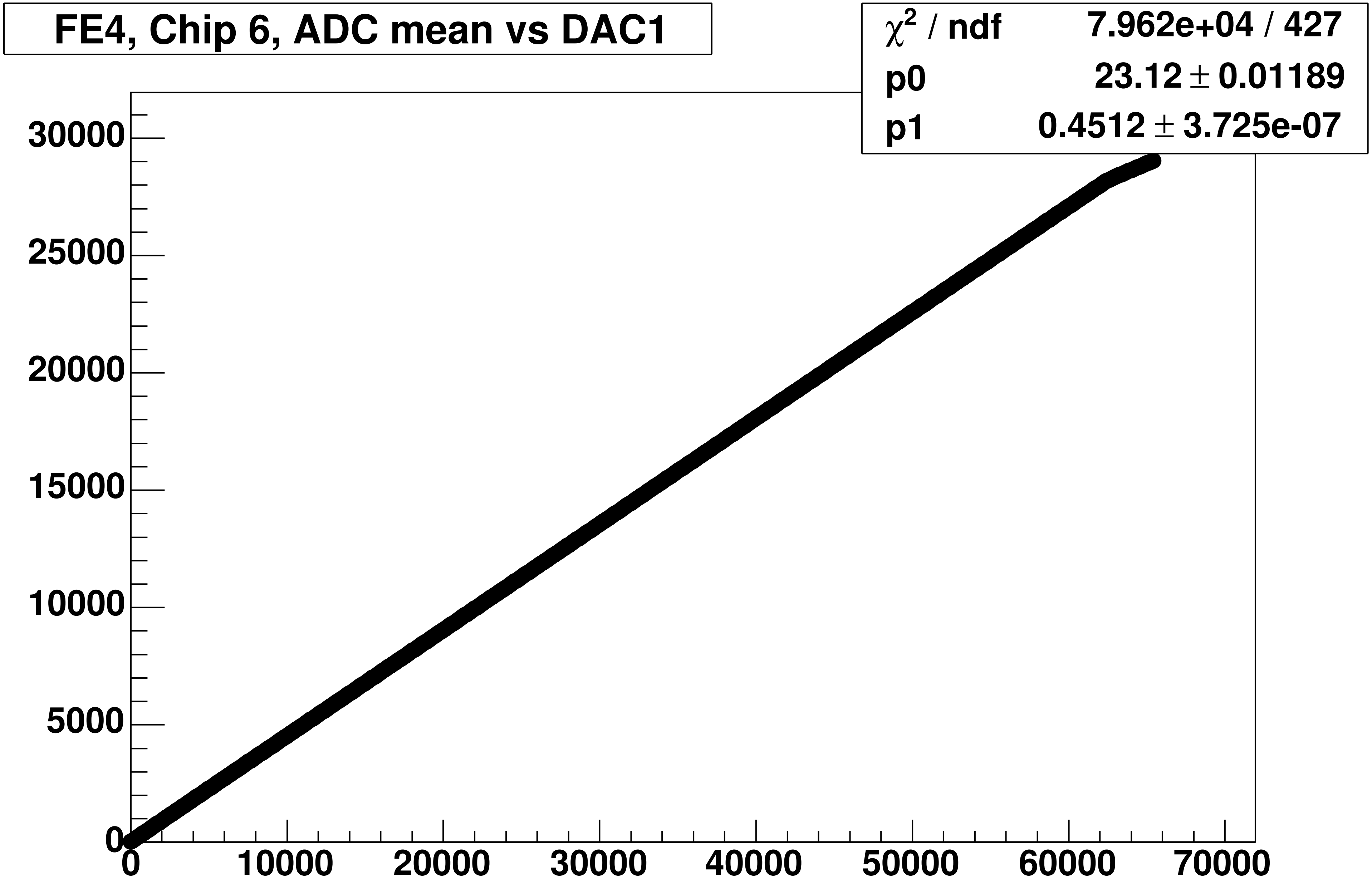
FE4, Chip 5, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
10000
20000
30000
40000
50000
60000
70000

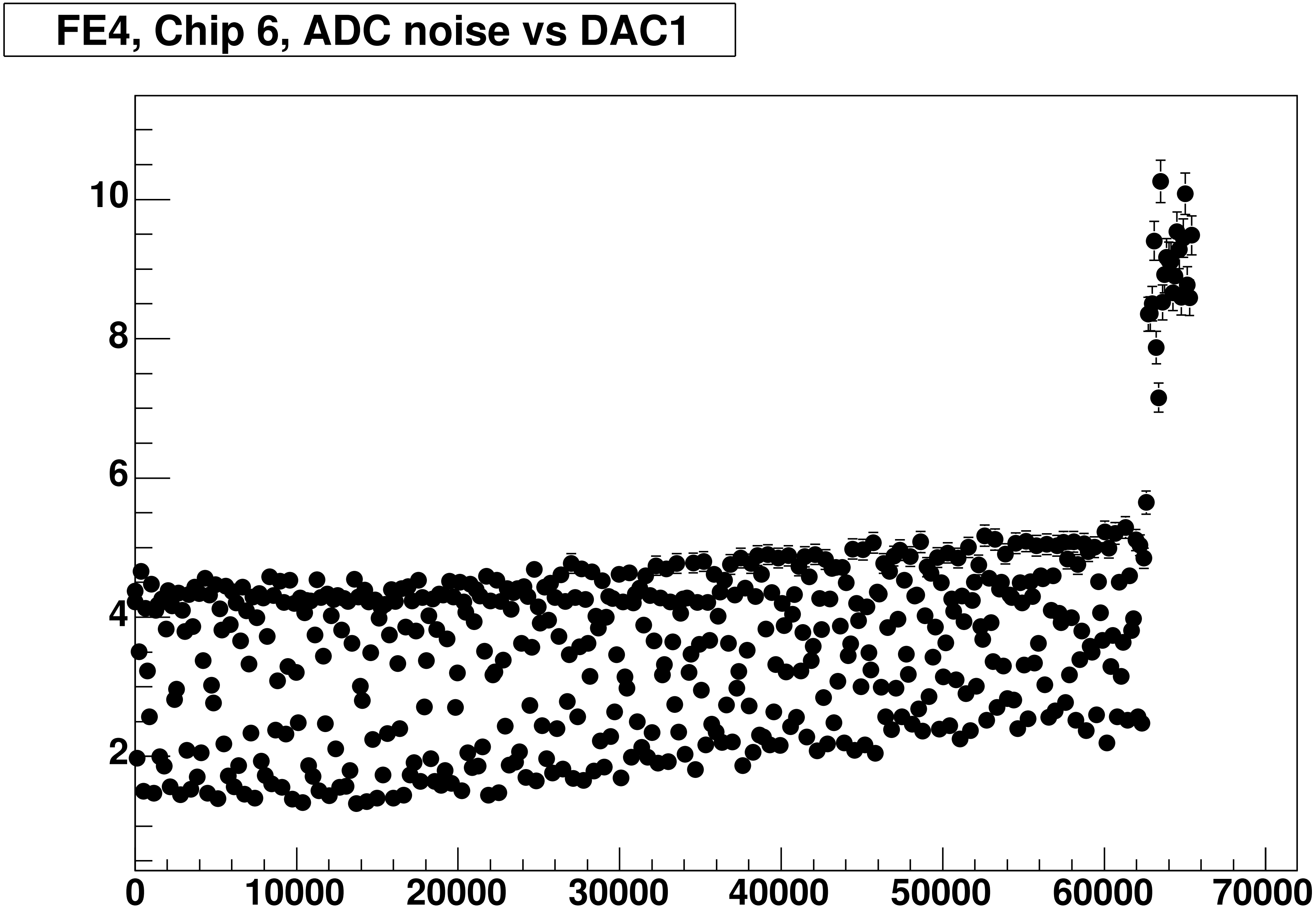


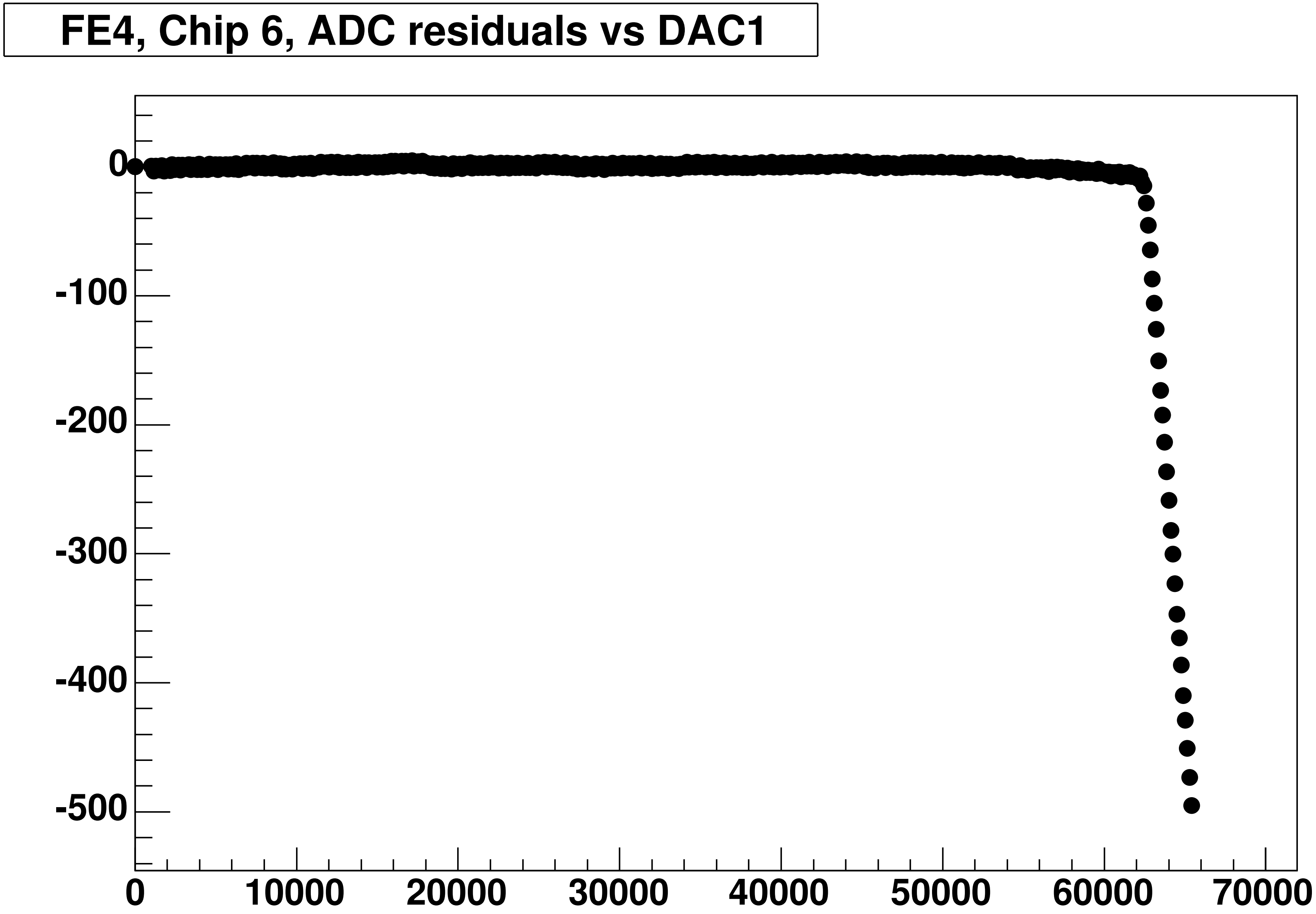
FE4, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 374.4 / 427
p0 23.47 ± 0.01961
p1 -4.539e-07 ± 5.421e-07
24.2
24
23.8
23.6
23.4
23.2
23
22.8
0
10000
20000
30000
40000
50000
60000
70000


FE4, Chip 6, ADC noise vs DAC0
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4
3.9
0
10000
20000
30000
40000
50000
60000
70000

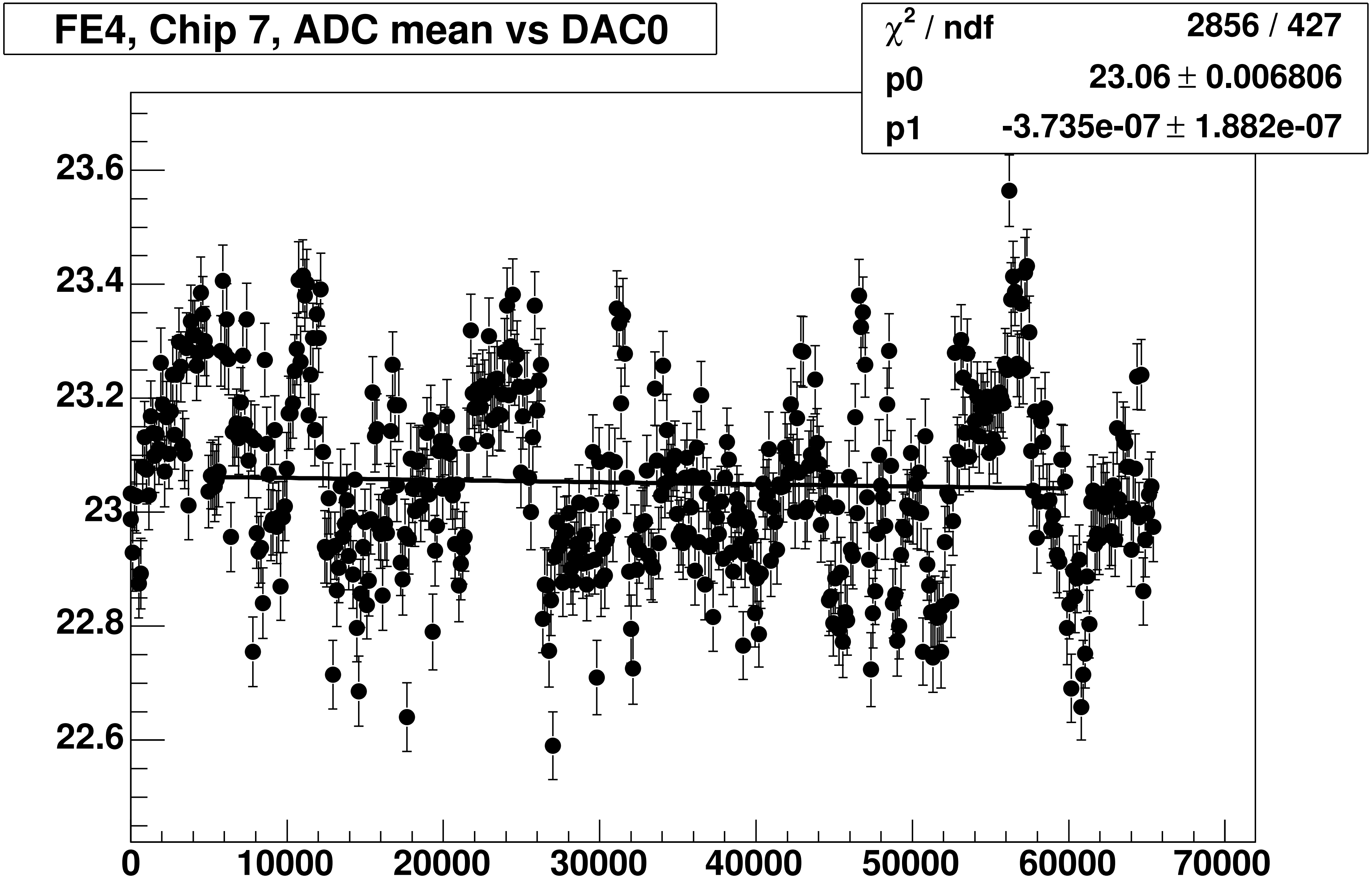

FE4, Chip 6, ADC residuals vs DAC0
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000


FE4, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 7.962e+04 / 427
p0 23.12 ± 0.01189
p1 0.4512 ± 3.725e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000

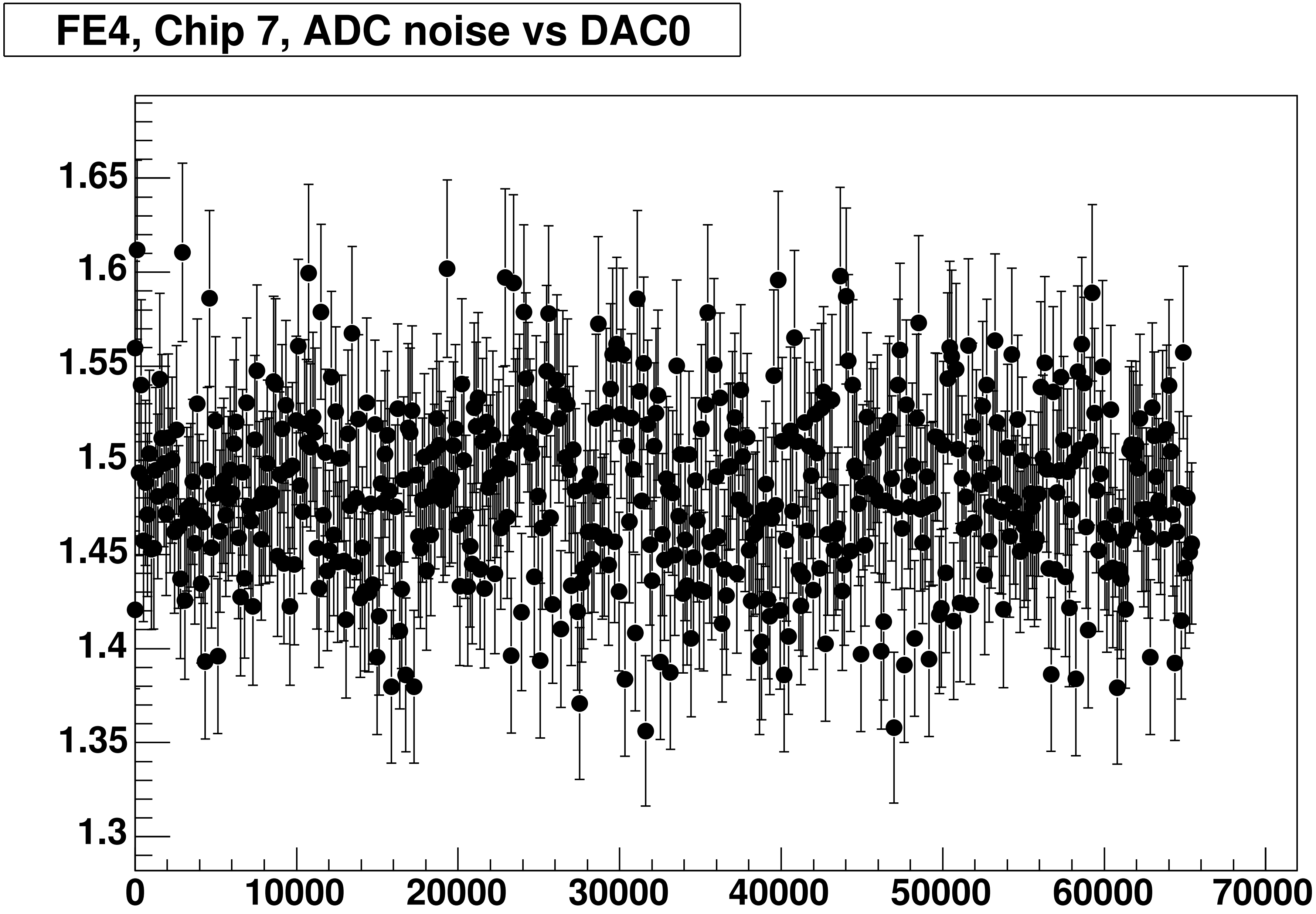

FE4, Chip 6, ADC noise vs DAC1
2
4
6
8
10
0
10000
20000
30000
40000
50000
60000
70000

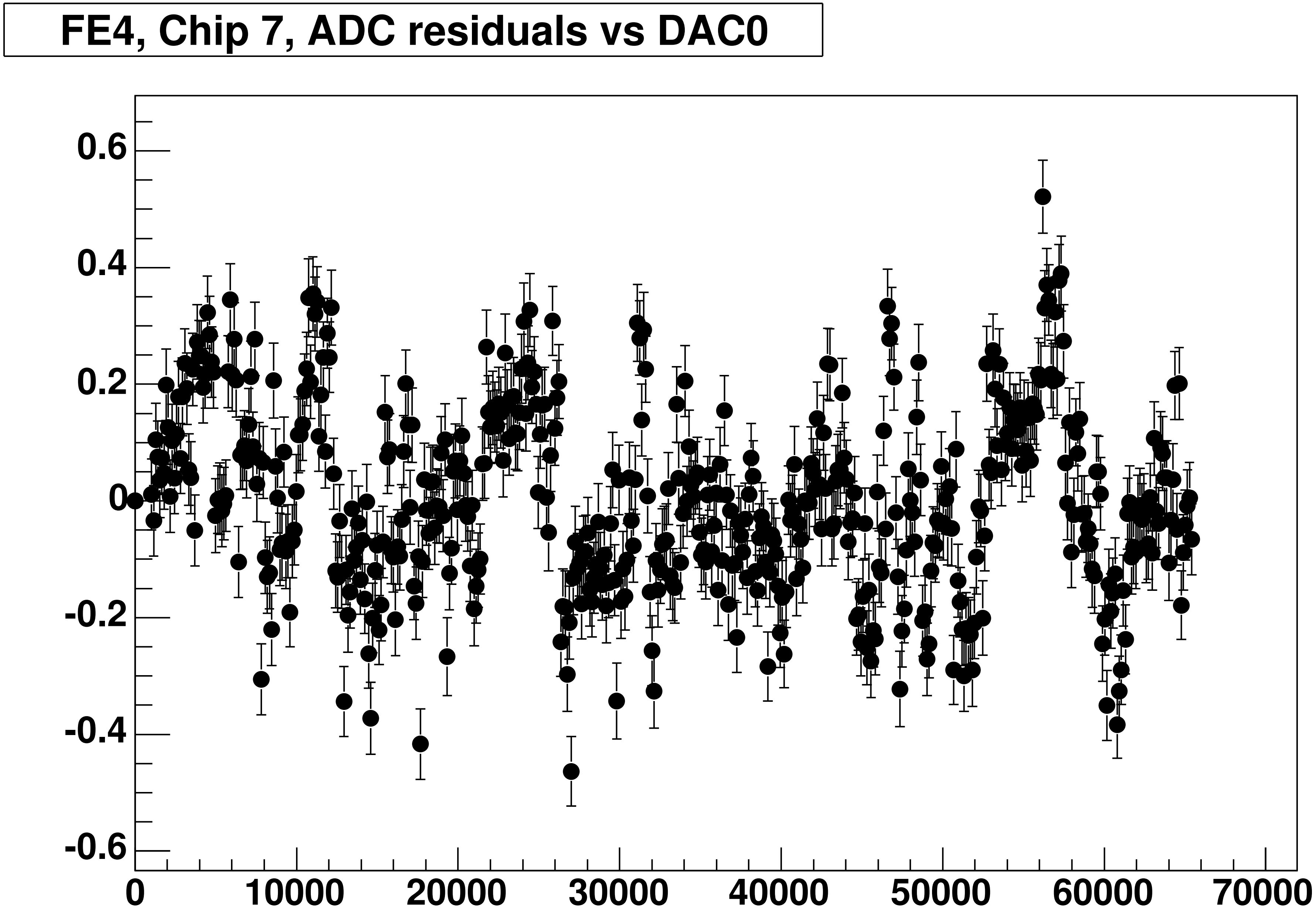


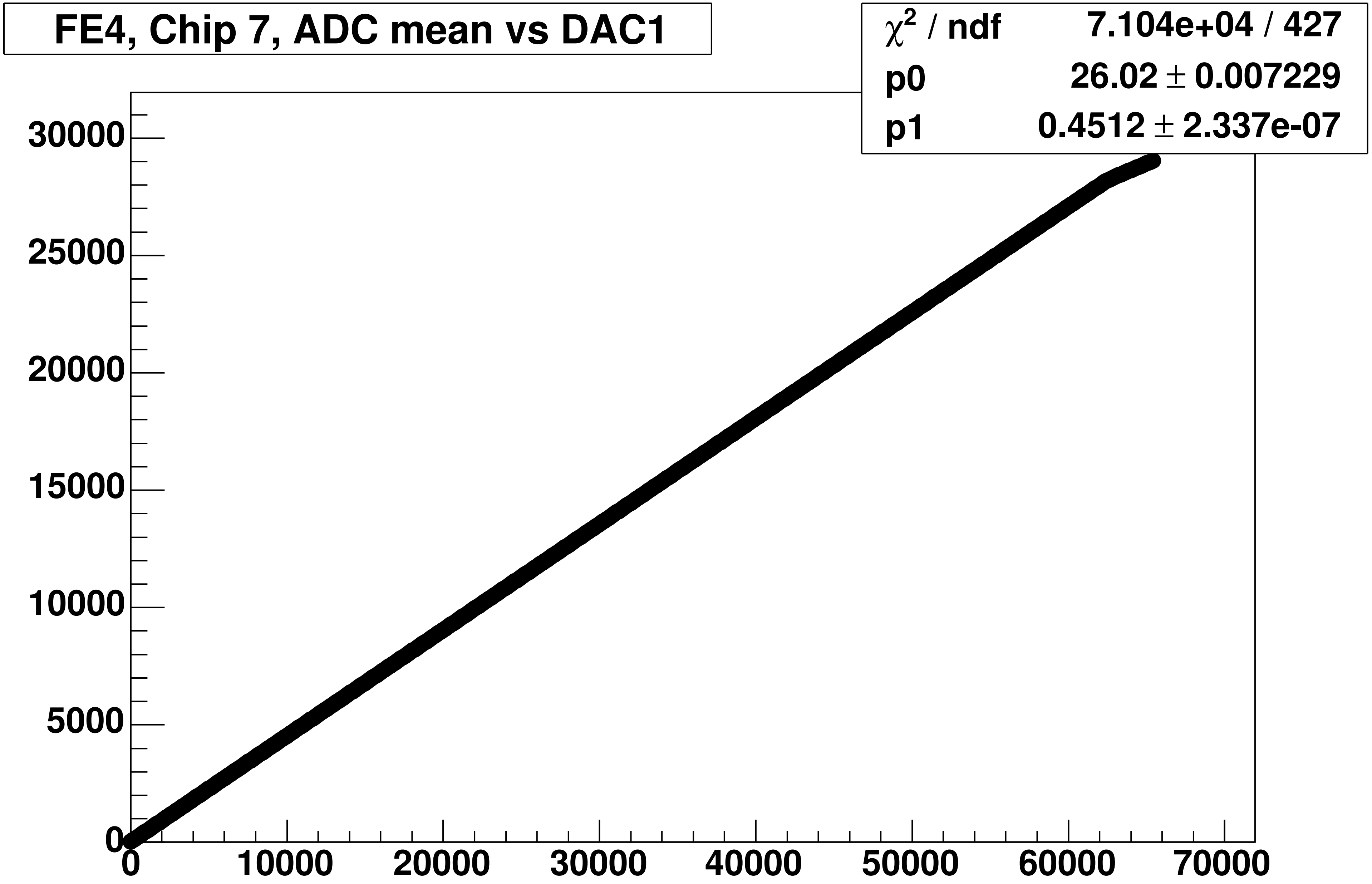
FE4, Chip 6, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000



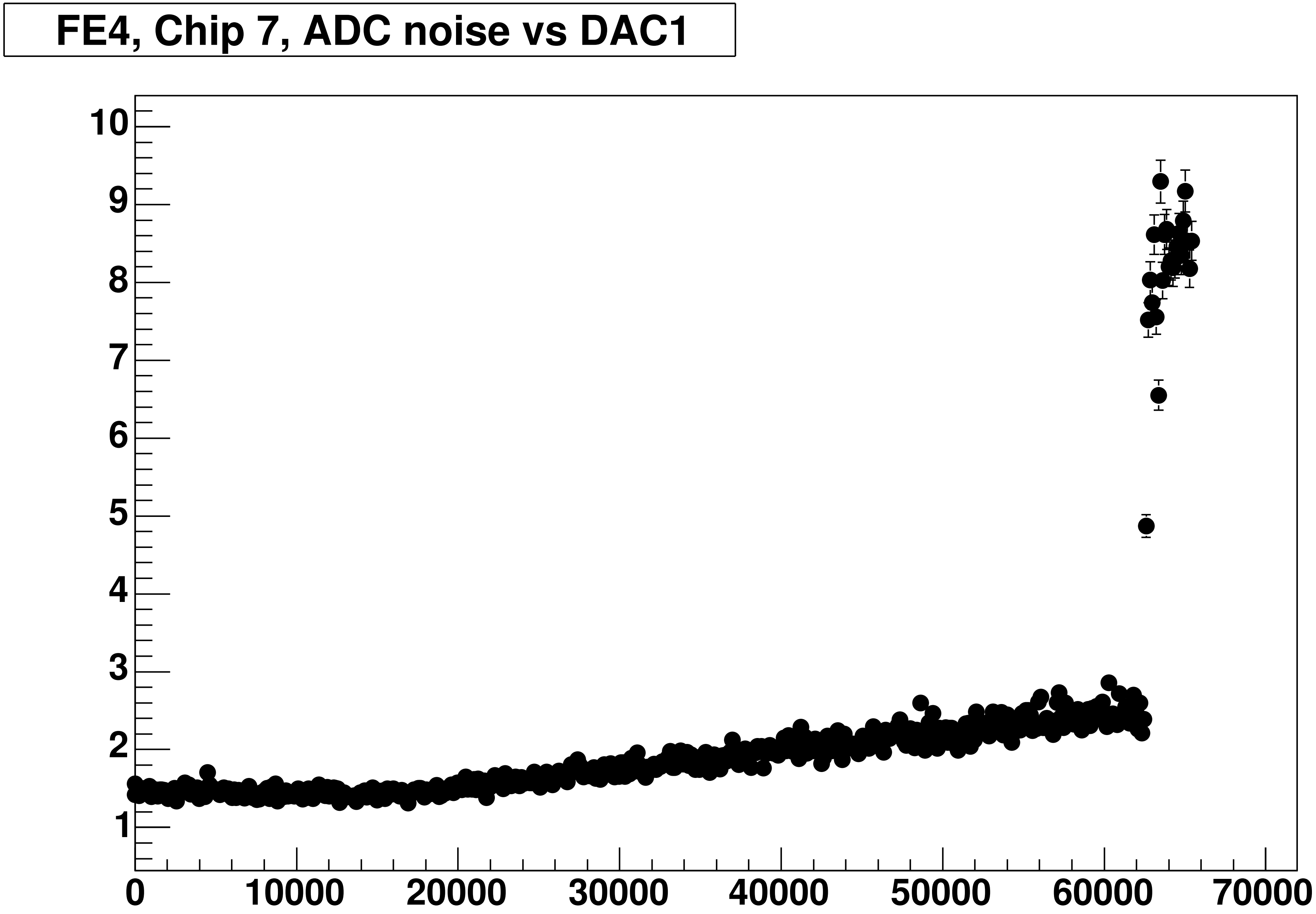
FE4, Chip 7, ADC mean vs DAC0
$\chi^2$ / ndf 2856 / 427
p0 23.06 ± 0.006806
p1 -3.735e-07 ± 1.882e-07
23.6
23.4
23.2
23
22.8
22.6
0
10000
20000
30000
40000
50000
60000
70000


FE4, Chip 7, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000
70000

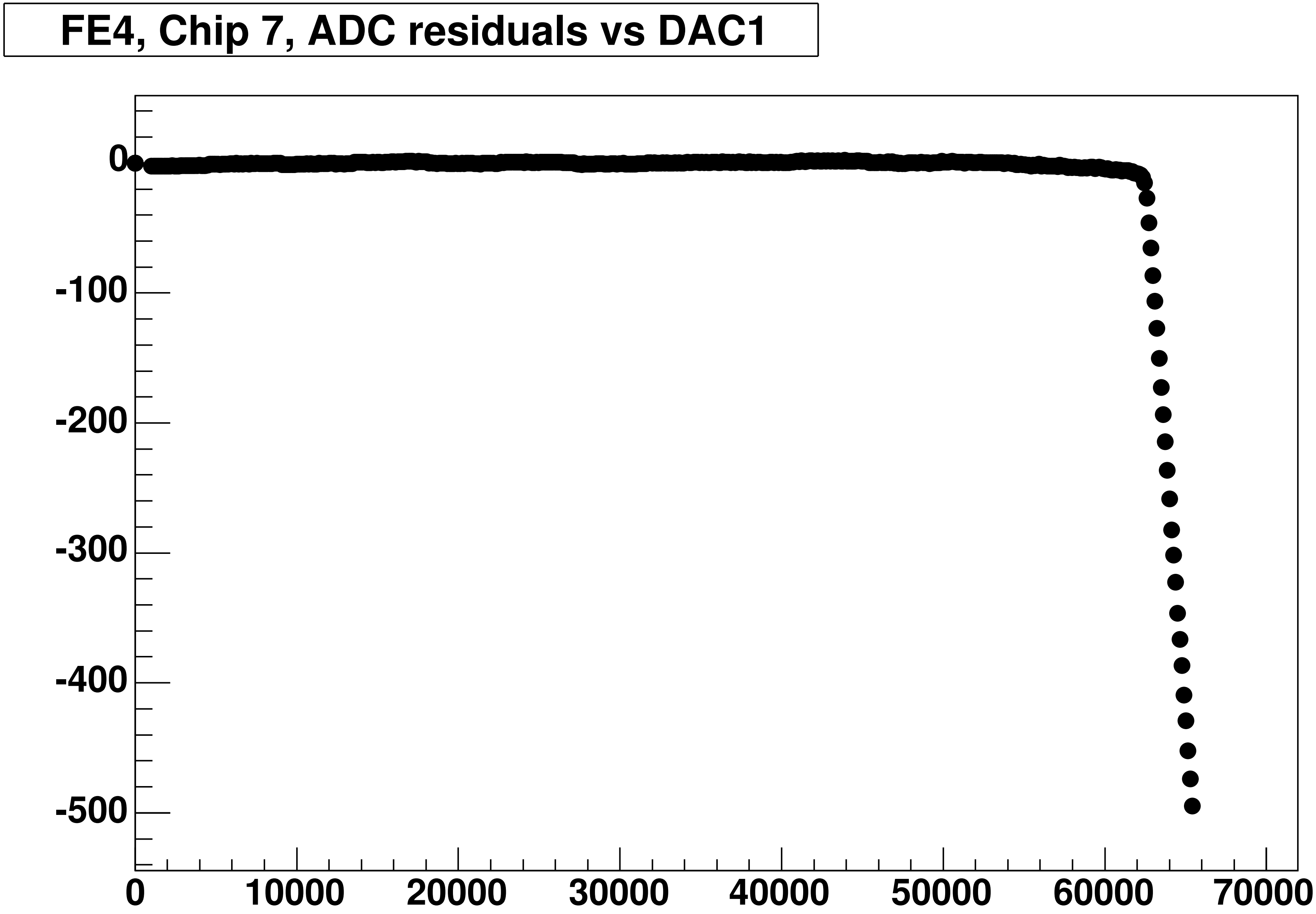

FE4, Chip 7, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000



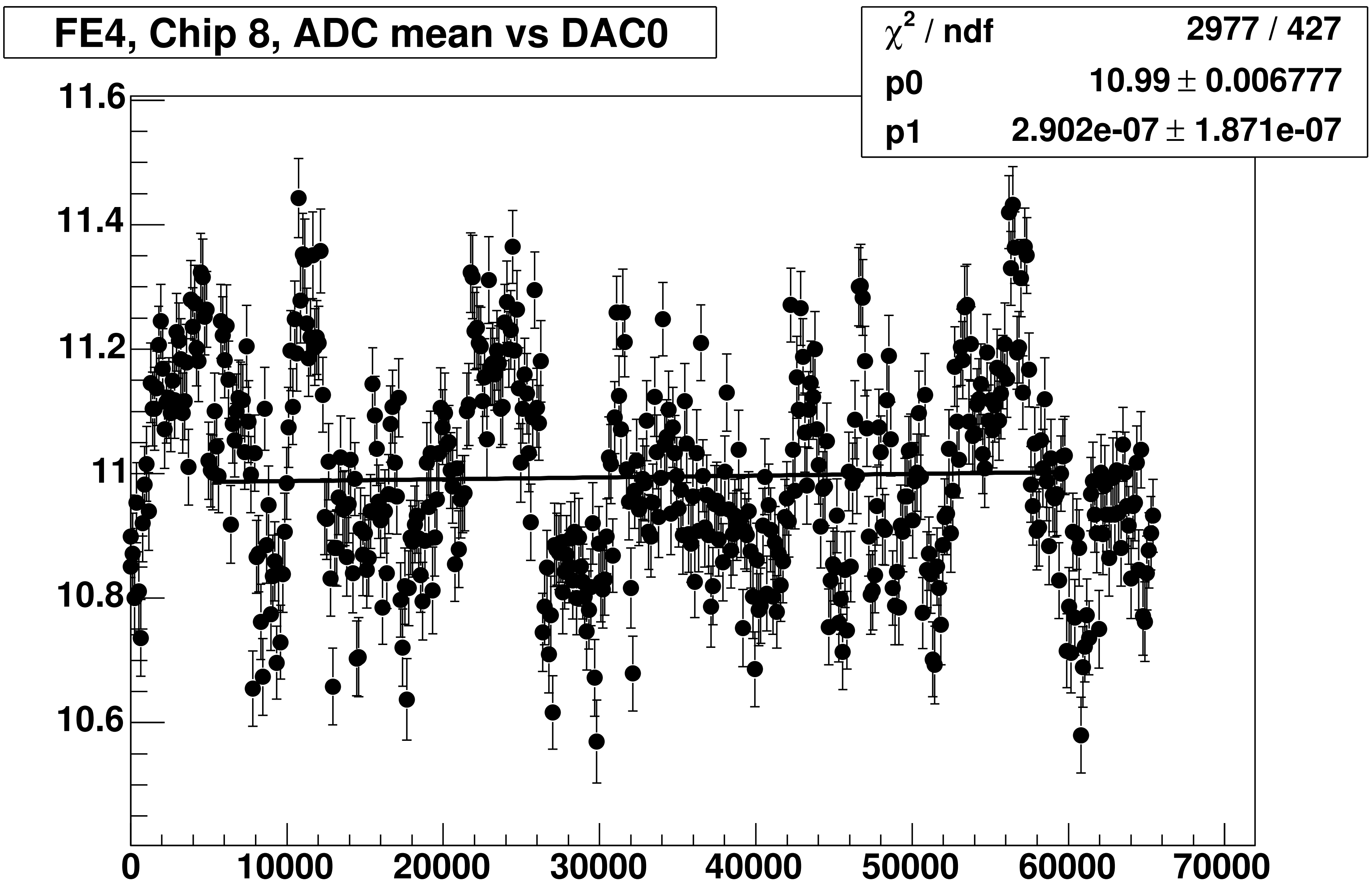
FE4, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 7.104e+04 / 427
p0 26.02 ± 0.007229
p1 0.4512 ± 2.337e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000



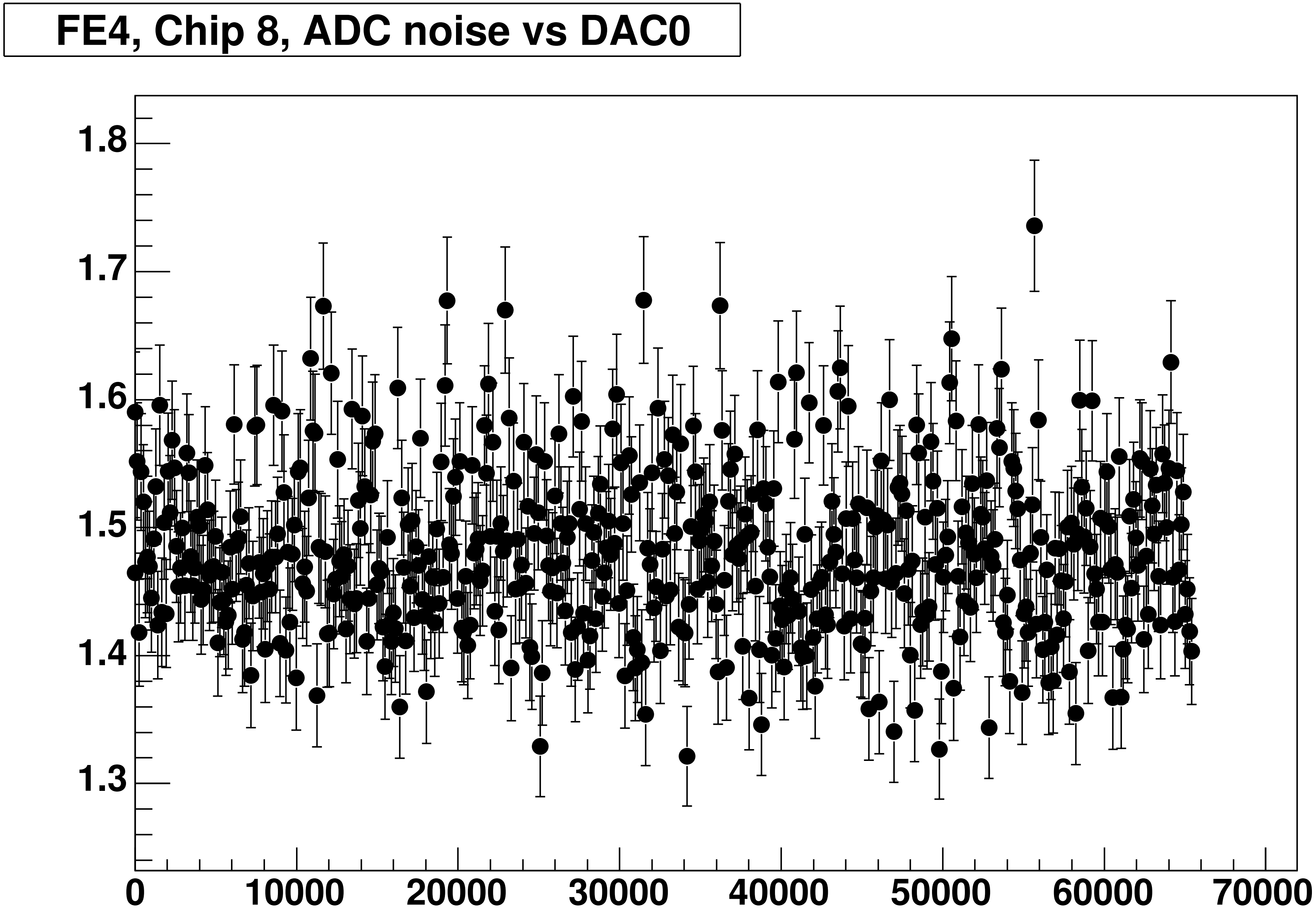
FE4, Chip 7, ADC noise vs DAC1
10
9
8
7
6
5
4
3
2
1
0
10000
20000
30000
40000
50000
60000
70000



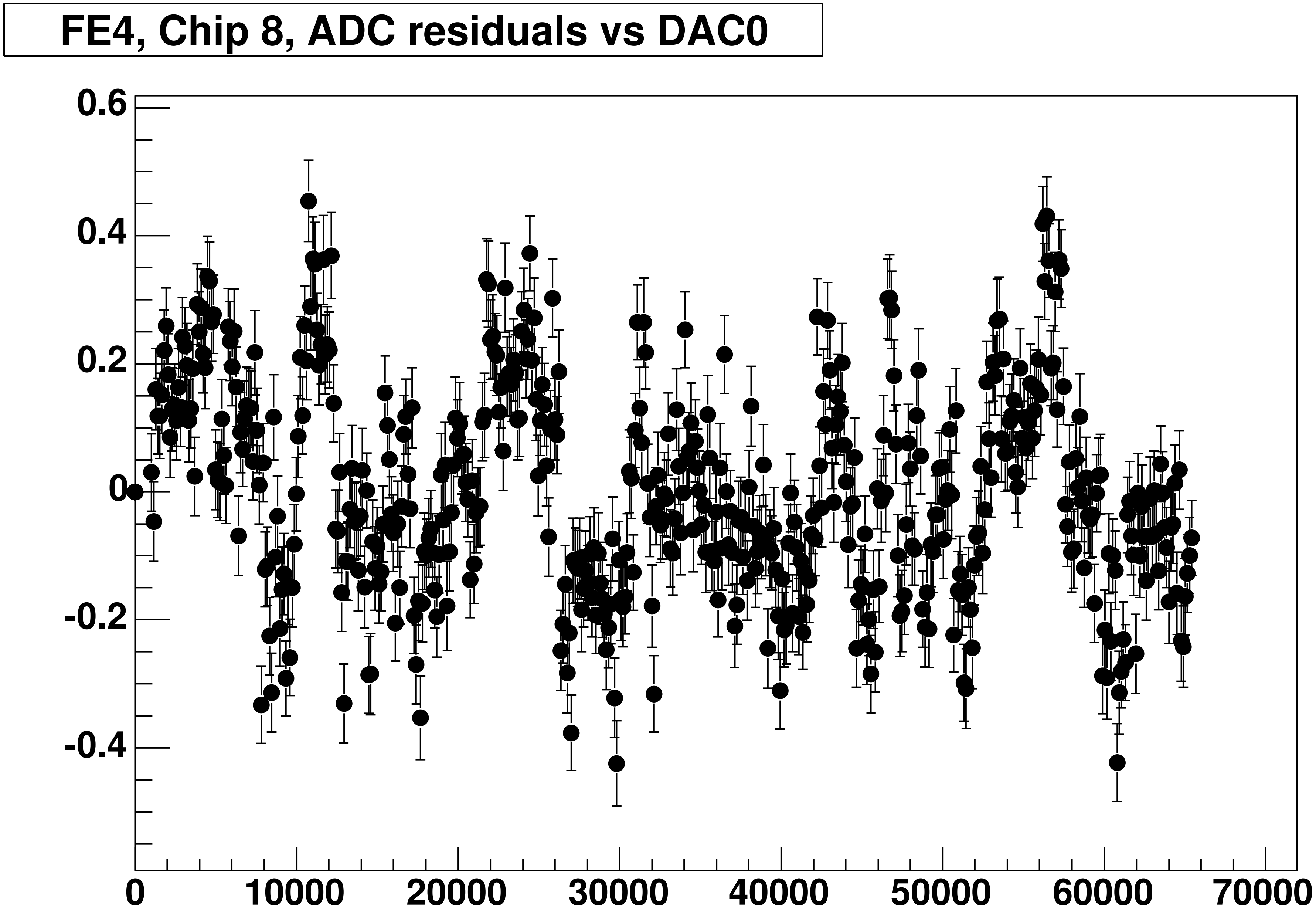
FE4, Chip 7, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000

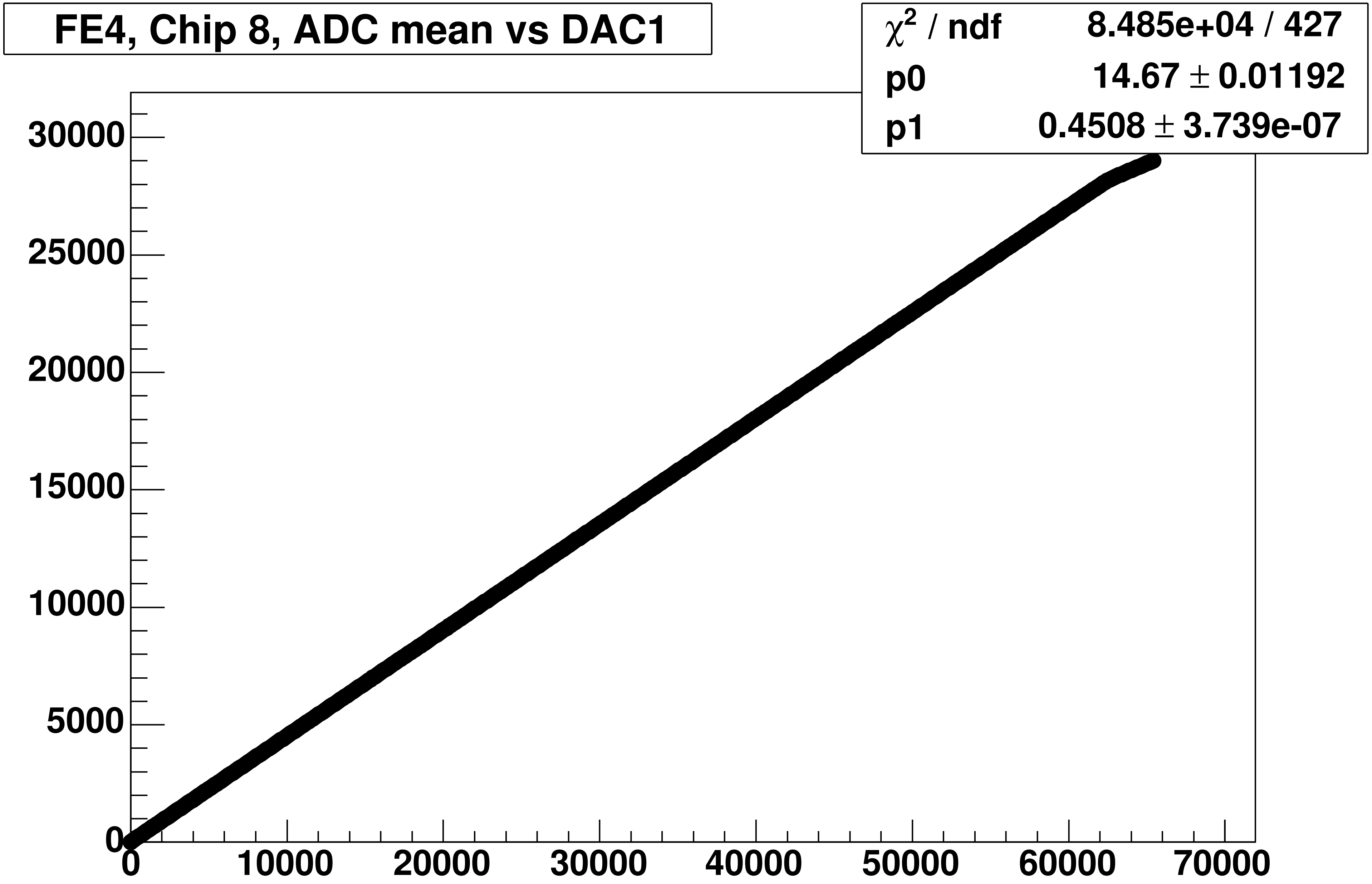


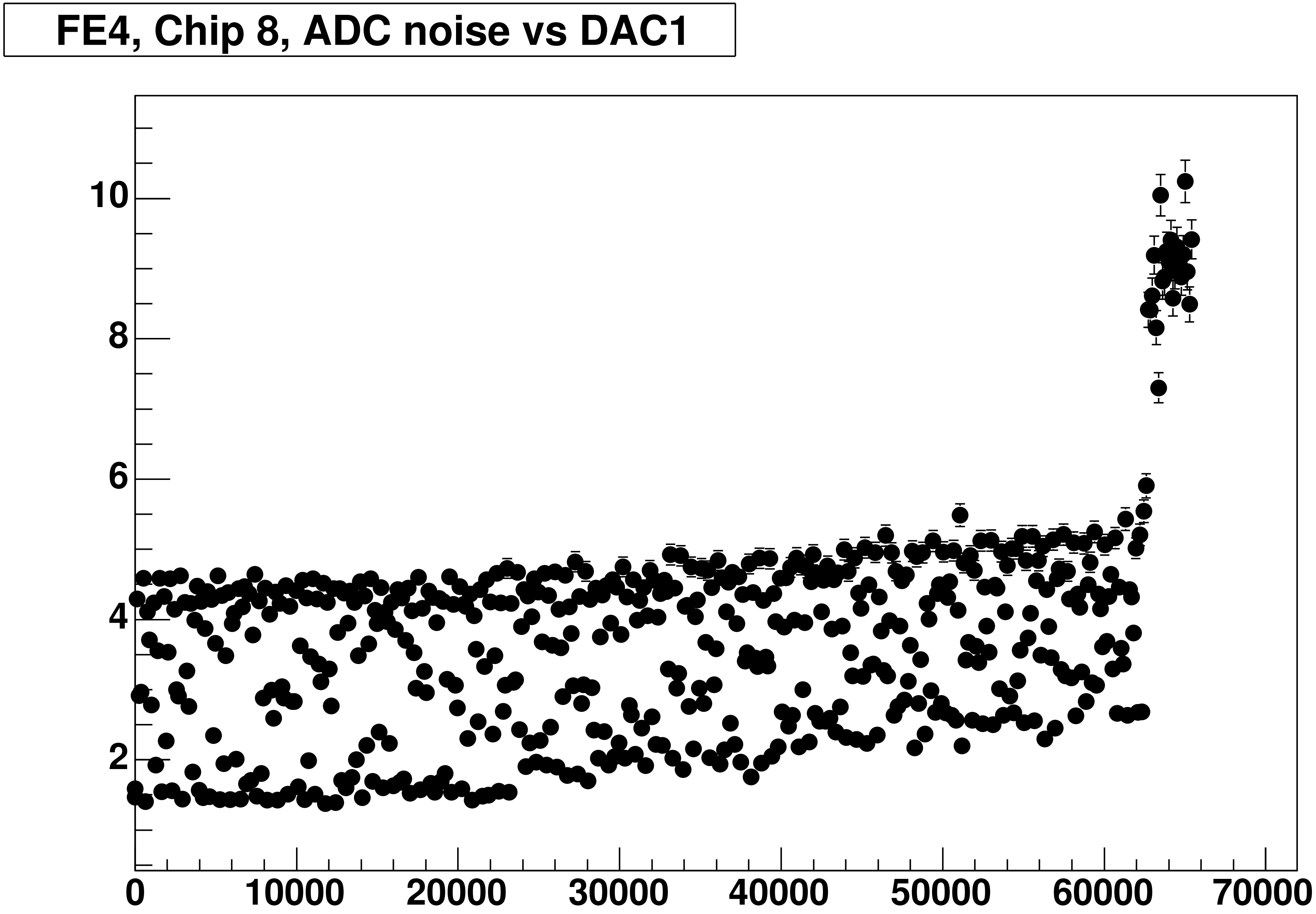
FE4, Chip 8, ADC mean vs DAC0
$\chi^2$ / ndf 2977 / 427
p0 10.99 ± 0.006777
p1 2.902e-07 ± 1.871e-07
11.6
11.4
11.2
11
10.8
10.6
0
10000
20000
30000
40000
50000
60000
70000



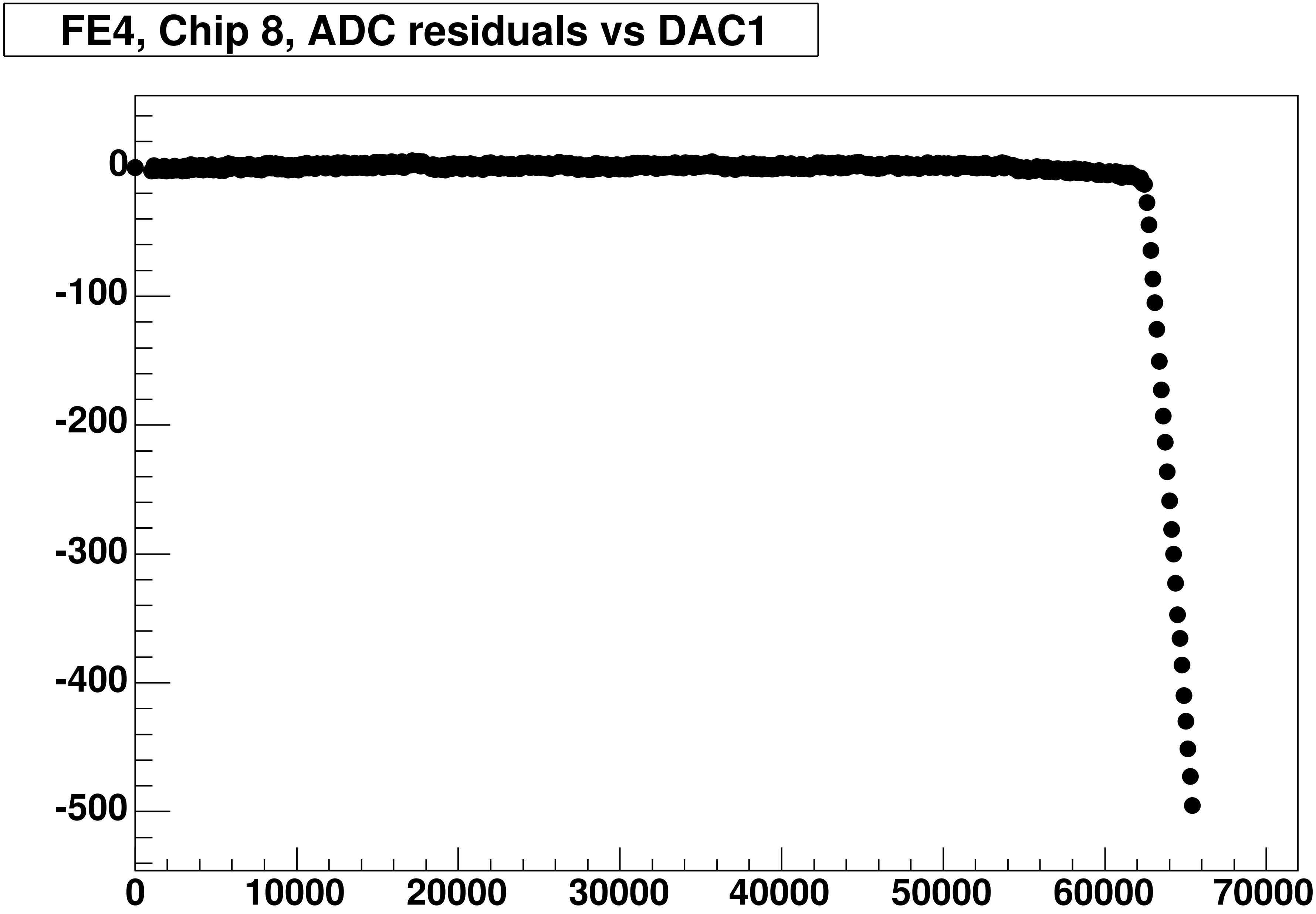
FE4, Chip 8, ADC noise vs DAC0
1.3
1.4
1.5
1.6
1.7
1.8
0
10000
20000
30000
40000
50000
60000
70000


FE4, Chip 8, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
0
10000
20000
30000
40000
50000
60000
70000

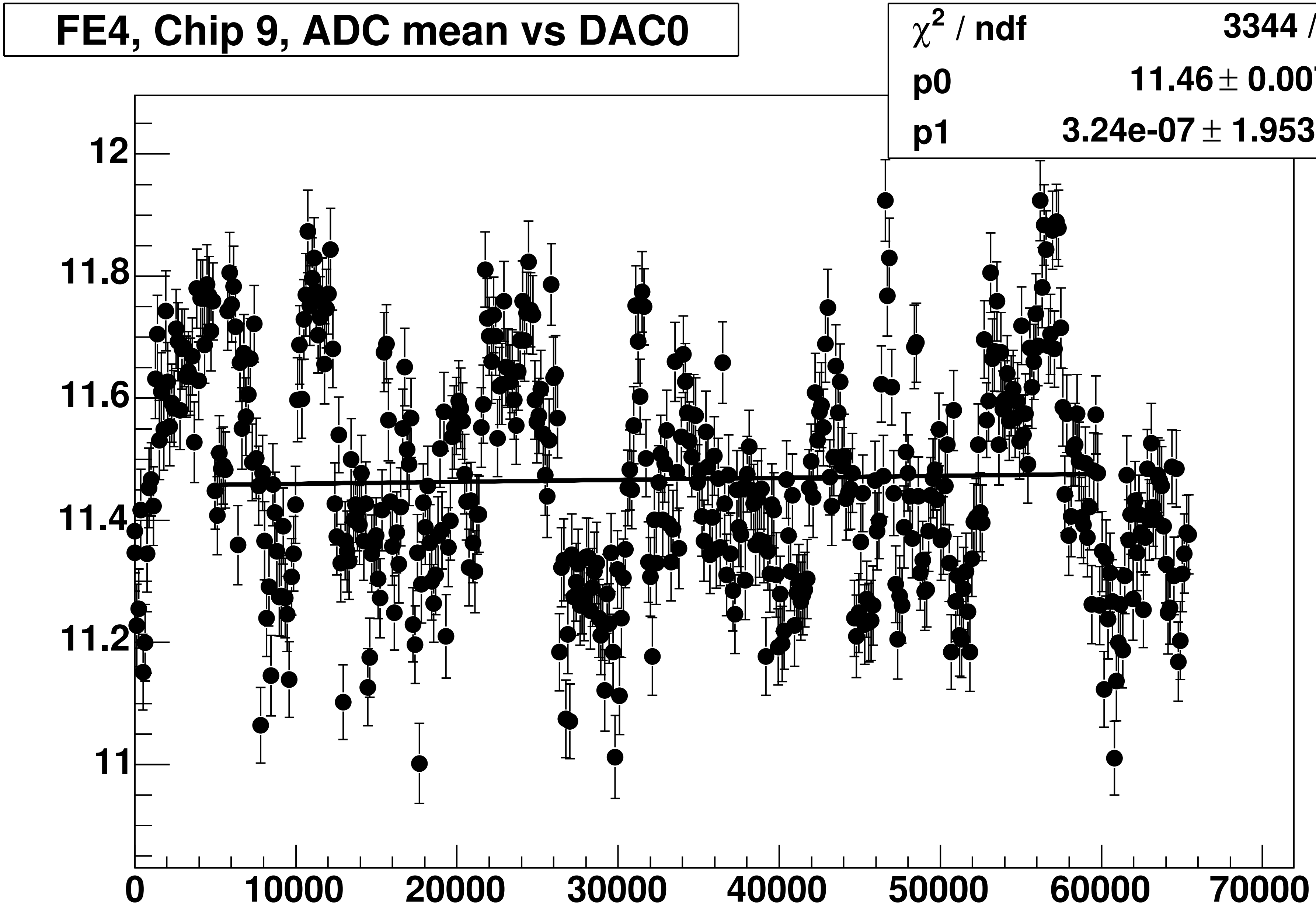

FE4, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 8.485e+04 / 427
p0 14.67 ± 0.01192
p1 0.4508 ± 3.739e-07
30000
25000
20000
15000
10000
5000
0
0
10000
20000
30000
40000
50000
60000
70000



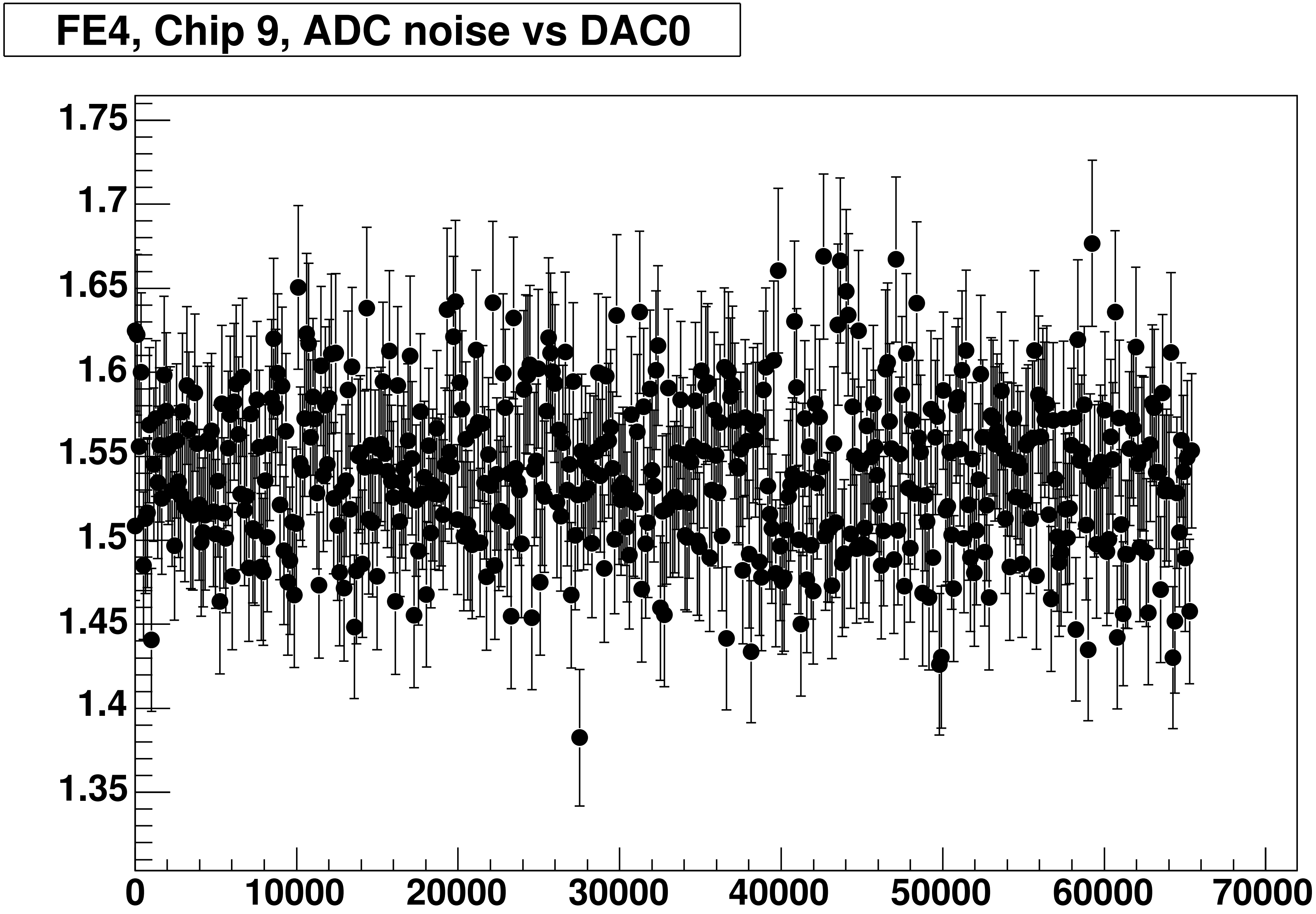
FE4, Chip 8, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000

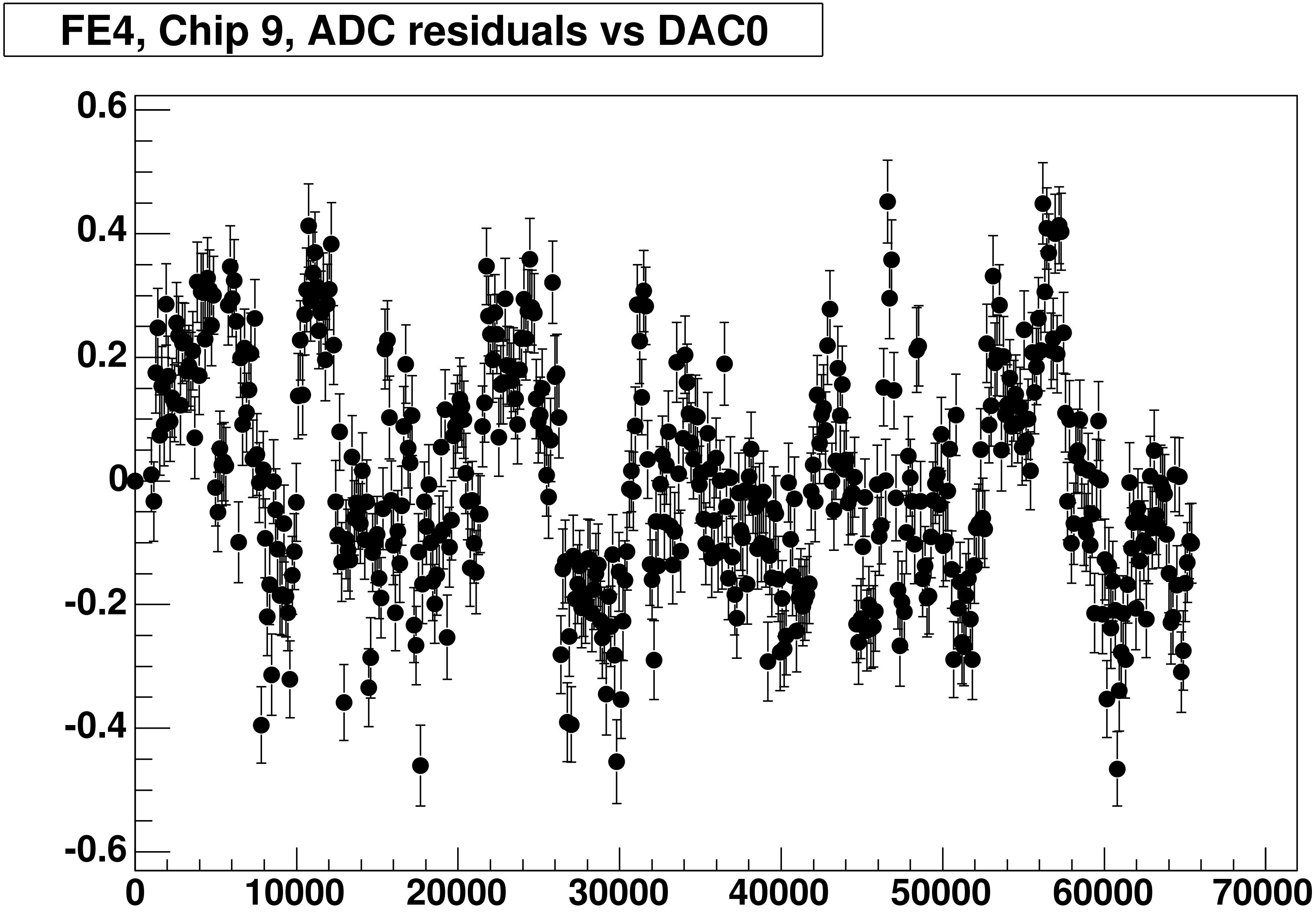


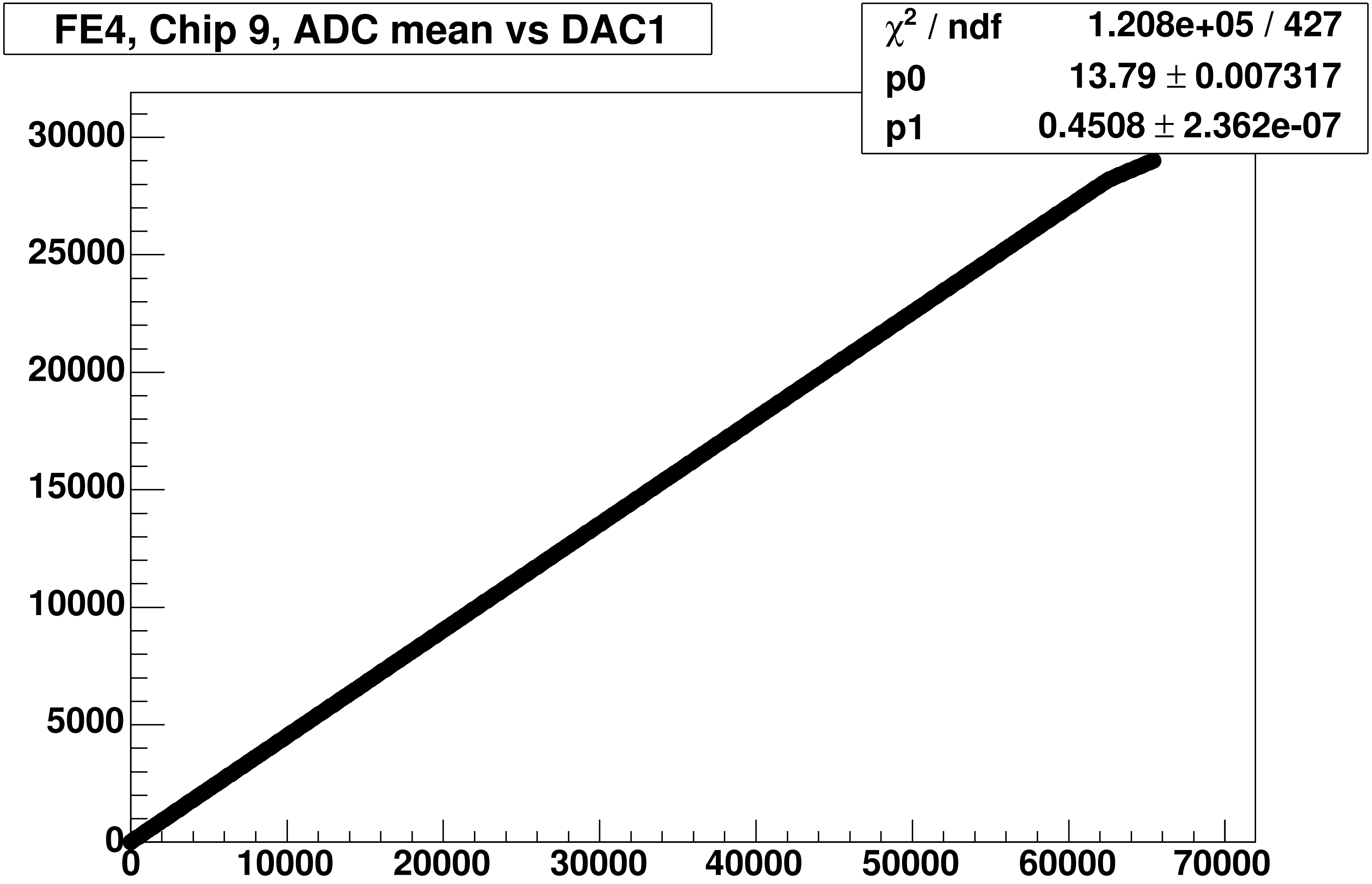
FE4, Chip 8, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000

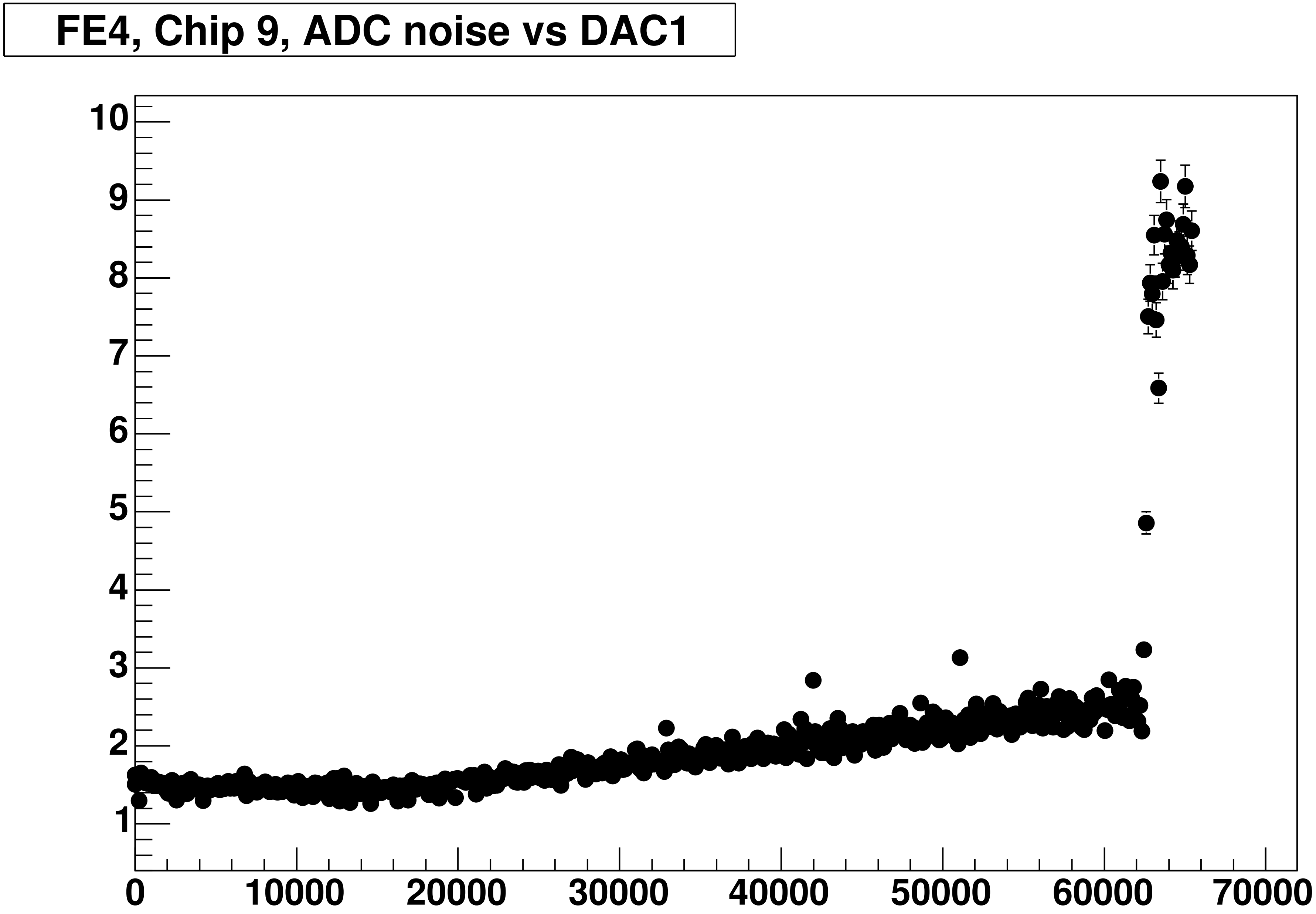


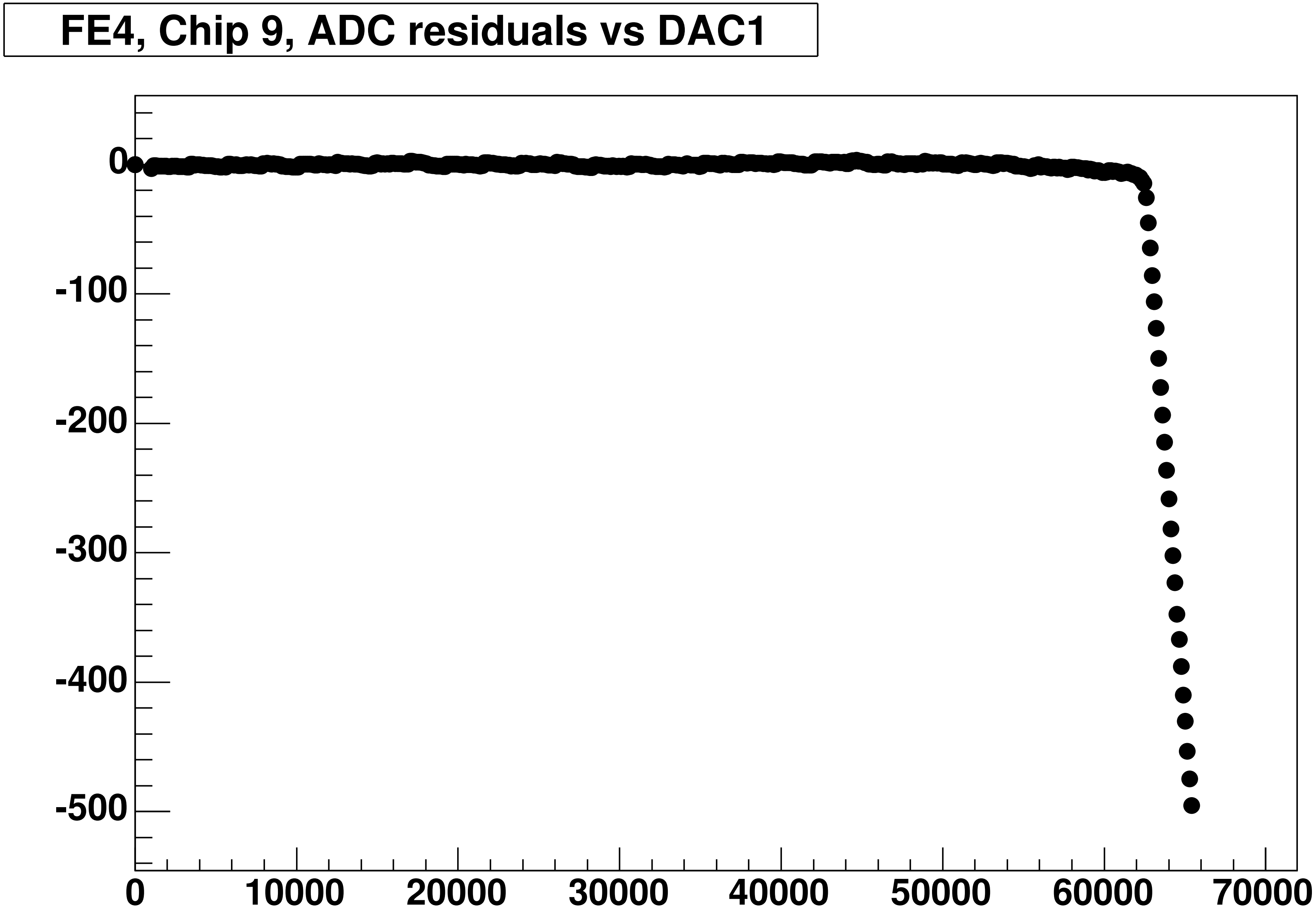
FE4, Chip 9, ADC mean vs DAC0
$\chi^2$ / ndf 3344 / 427
p0 11.46 ± 0.007071
p1 3.24e-07 ± 1.953e-07
12
11.8
11.6
11.4
11.2
11
0
10000
20000
30000
40000
50000
60000
70000


FE4, Chip 9, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
10000
20000
30000
40000
50000
60000
70000

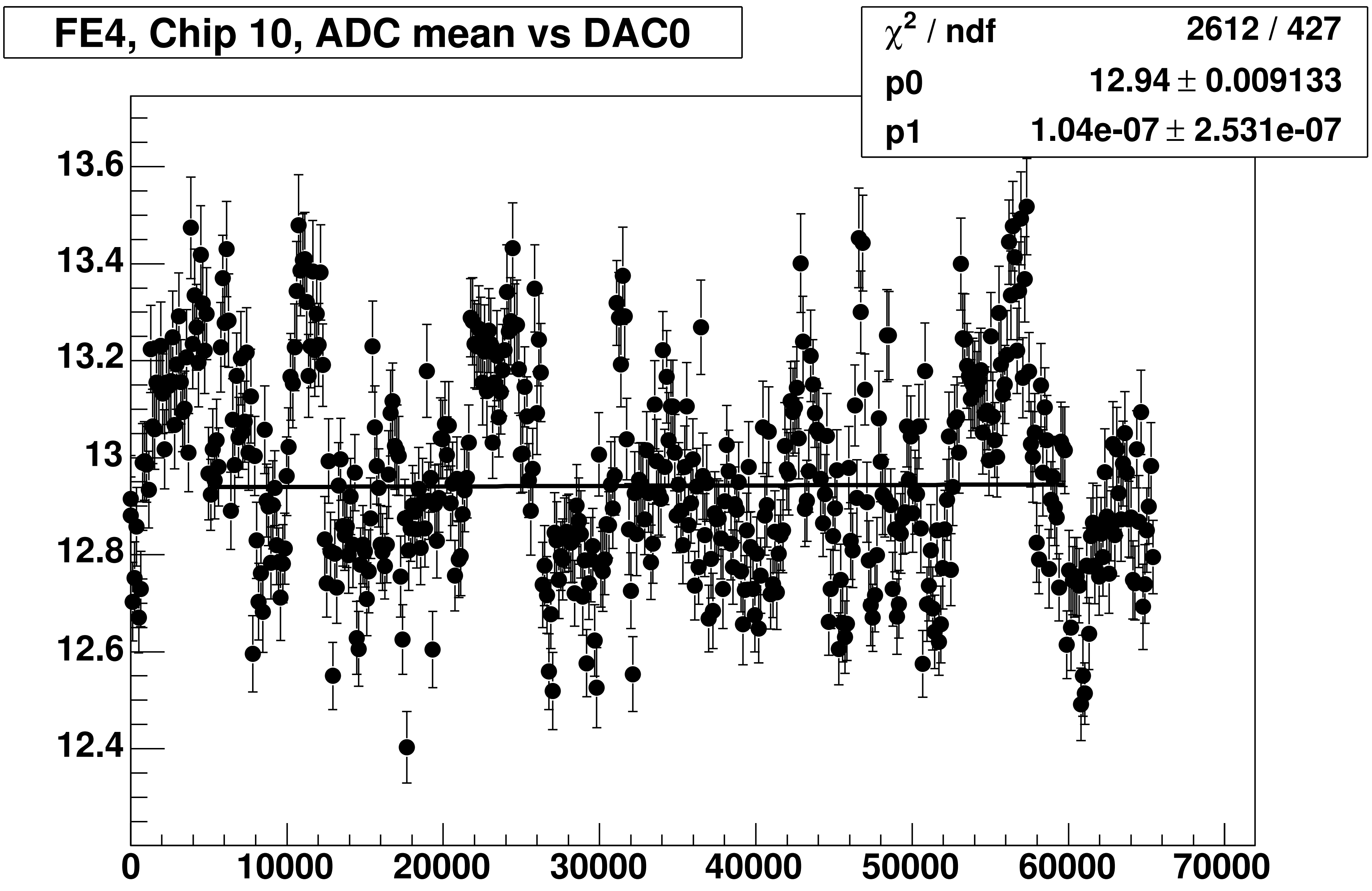

FE4, Chip 9, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000


FE4, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 1.208e+05 / 427
p0 13.79 ± 0.007317
p1 0.4508 ± 2.362e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000

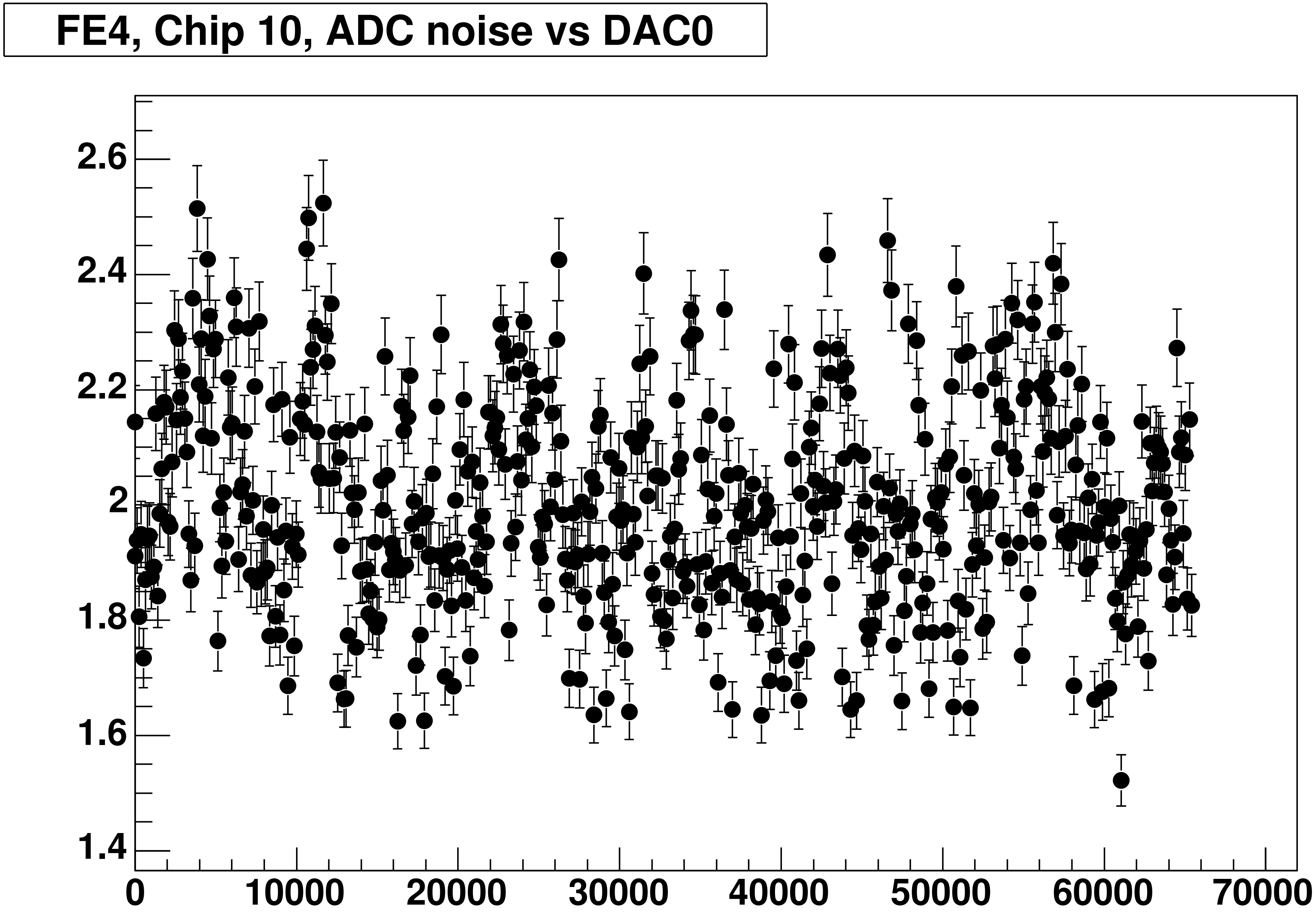

FE4, Chip 9, ADC noise vs DAC1
10
9
8
7
6
5
4
3
2
1
0
10000
20000
30000
40000
50000
60000
70000



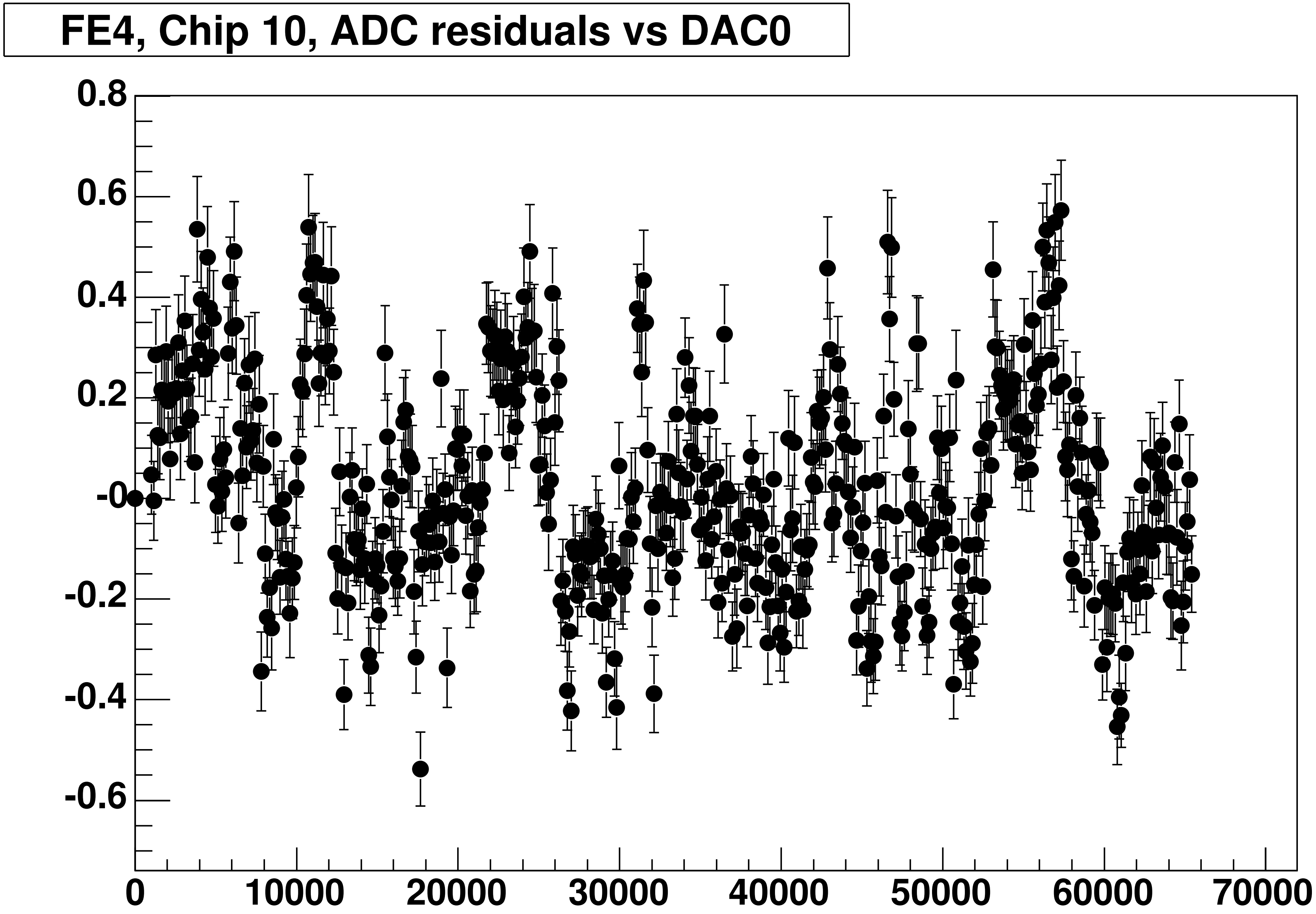
FE4, Chip 9, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000



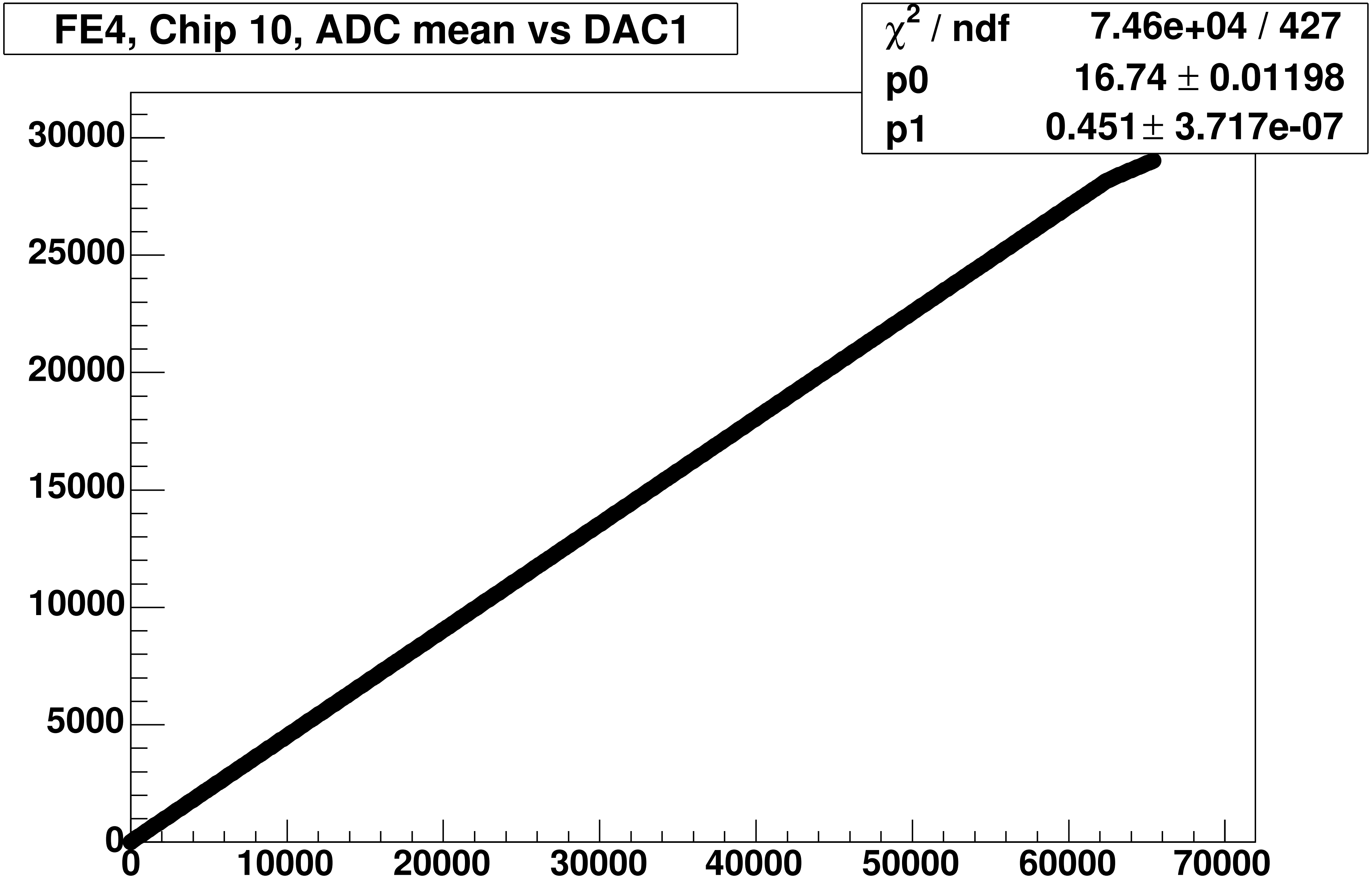
FE4, Chip 10, ADC mean vs DAC0
χ² / ndf 2612 / 427
p0 12.94 ± 0.009133
p1 1.04e-07 ± 2.531e-07
13.6
13.4
13.2
13
12.8
12.6
12.4
0
10000
20000
30000
40000
50000
60000
70000



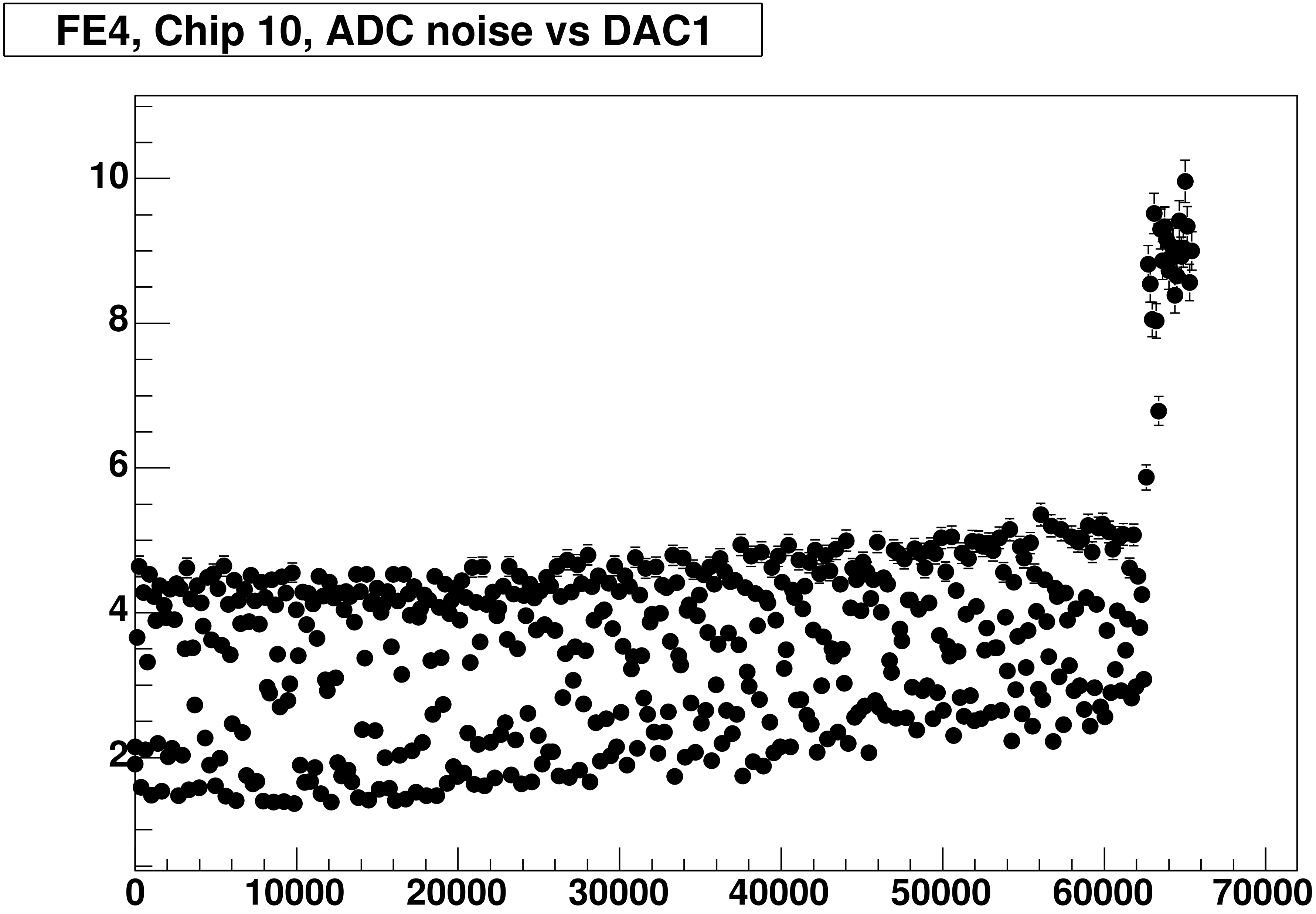
FE4, Chip 10, ADC noise vs DAC0
2.6
2.4
2.2
2
1.8
1.6
1.4
0
10000
20000
30000
40000
50000
60000
70000



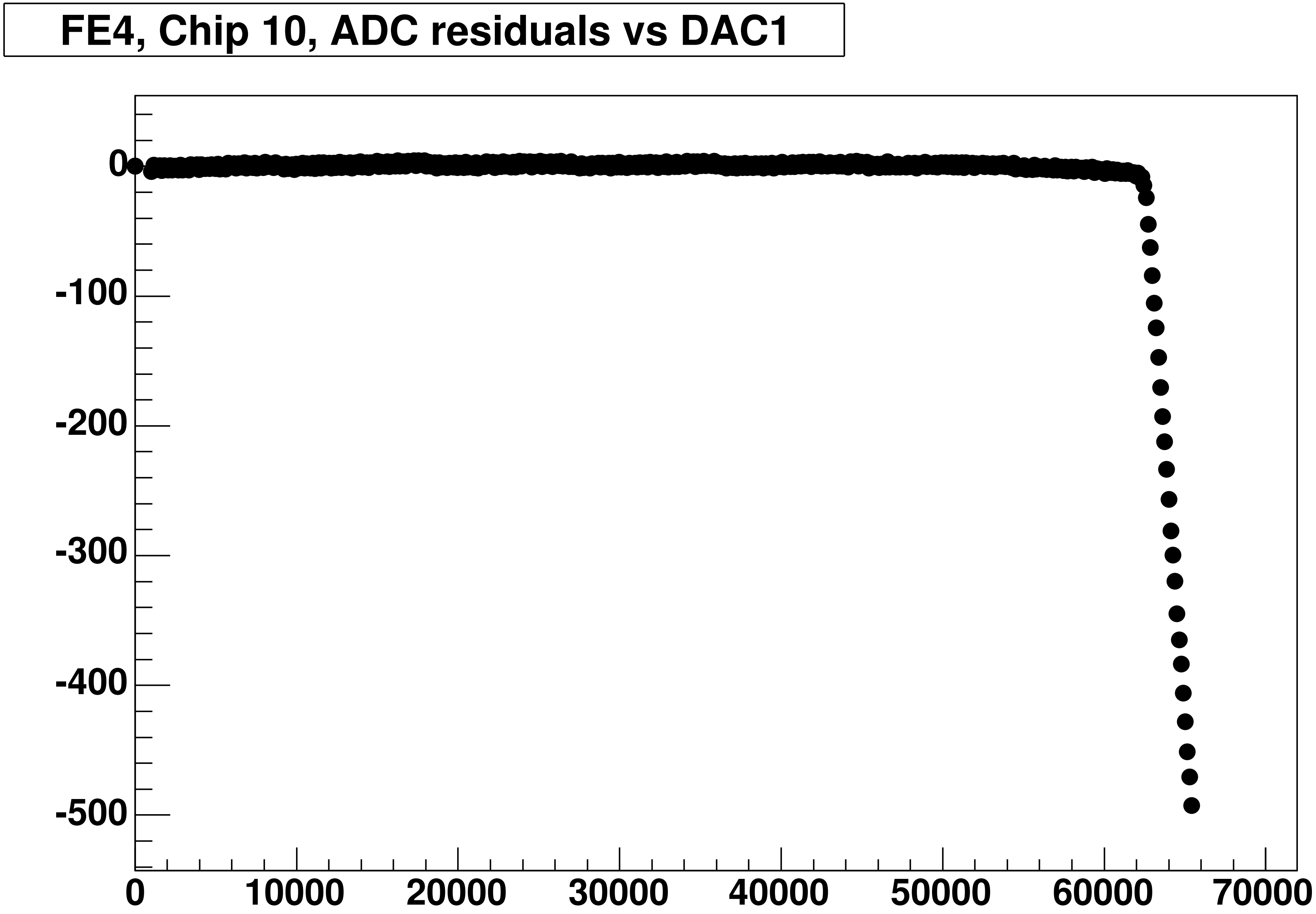
FE4, Chip 10, ADC residuals vs DAC0
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000

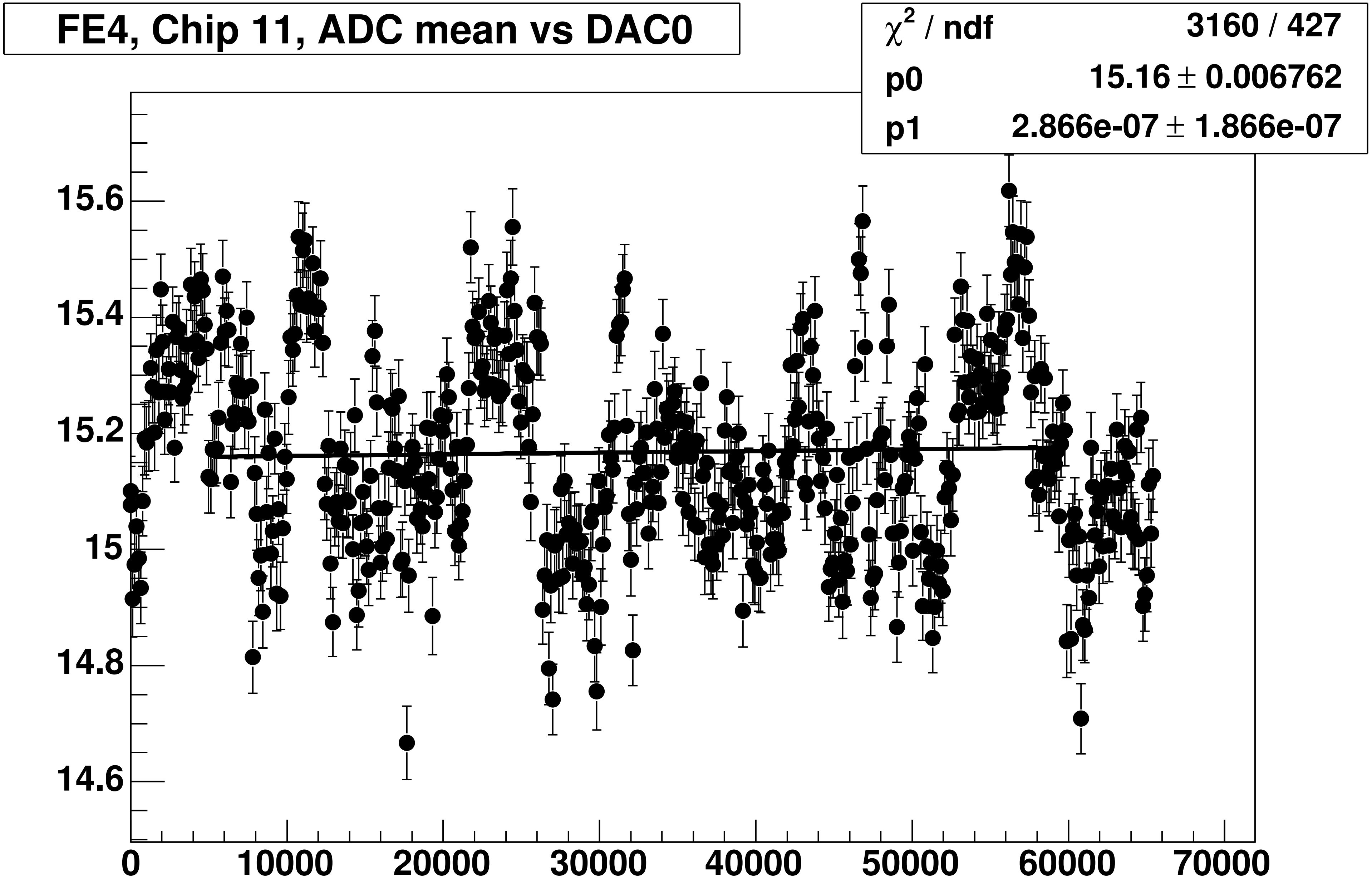


FE4, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 7.46e+04 / 427
p0 16.74 ± 0.01198
p1 0.451 ± 3.717e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000

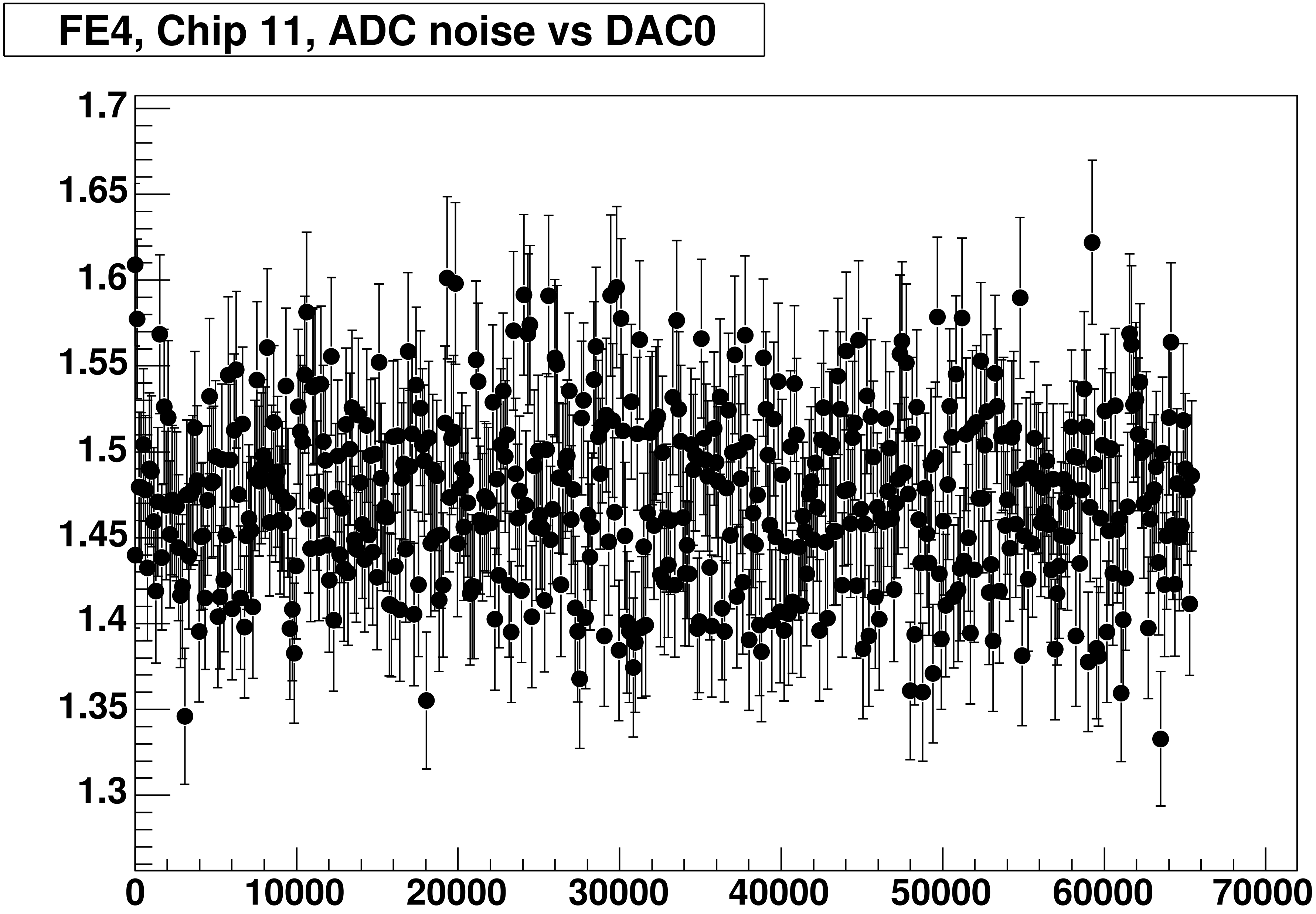


FE4, Chip 10, ADC noise vs DAC1
10
8
6
4
2
0
10000
20000
30000
40000
50000
60000
70000

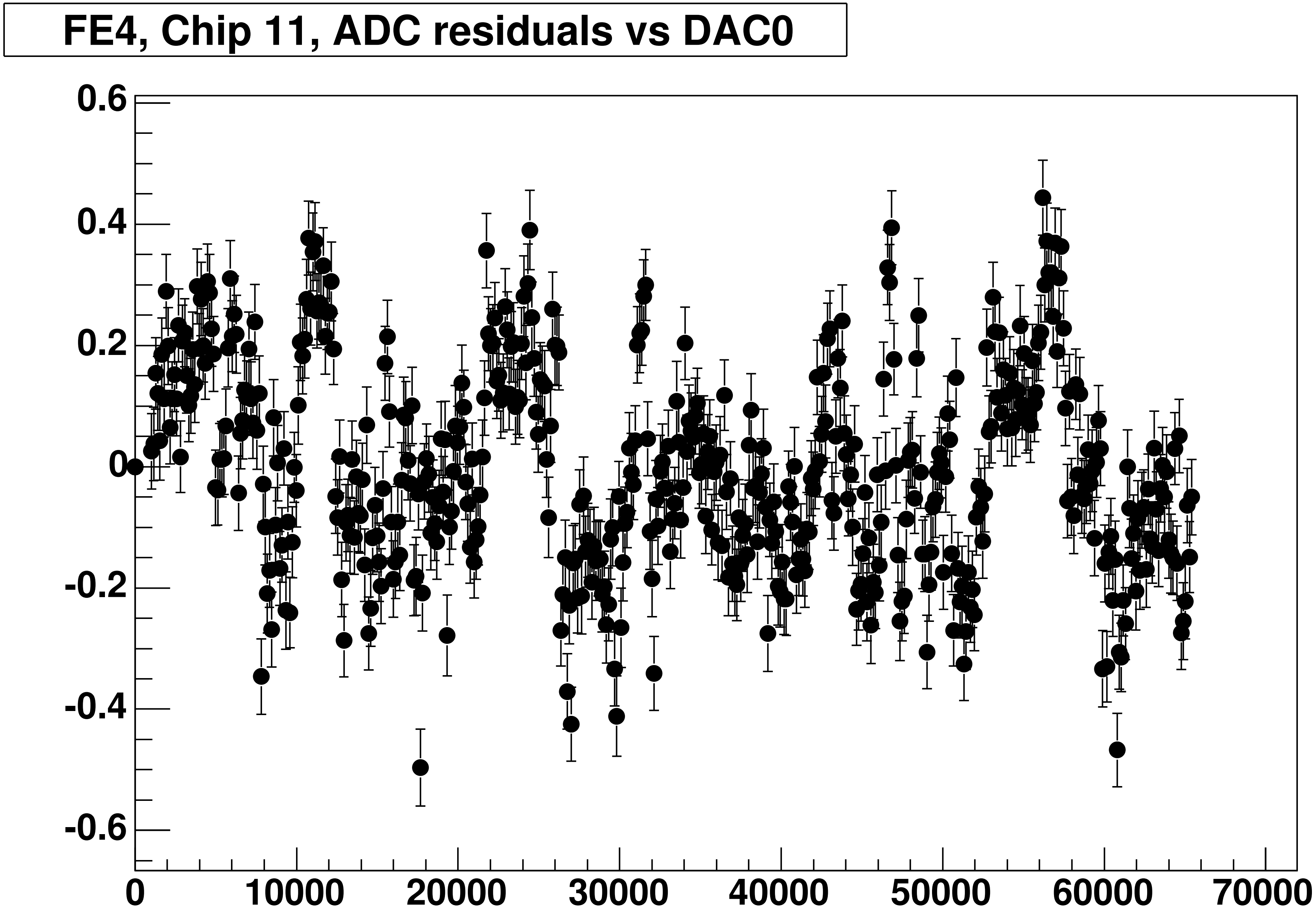

FE4, Chip 10, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000



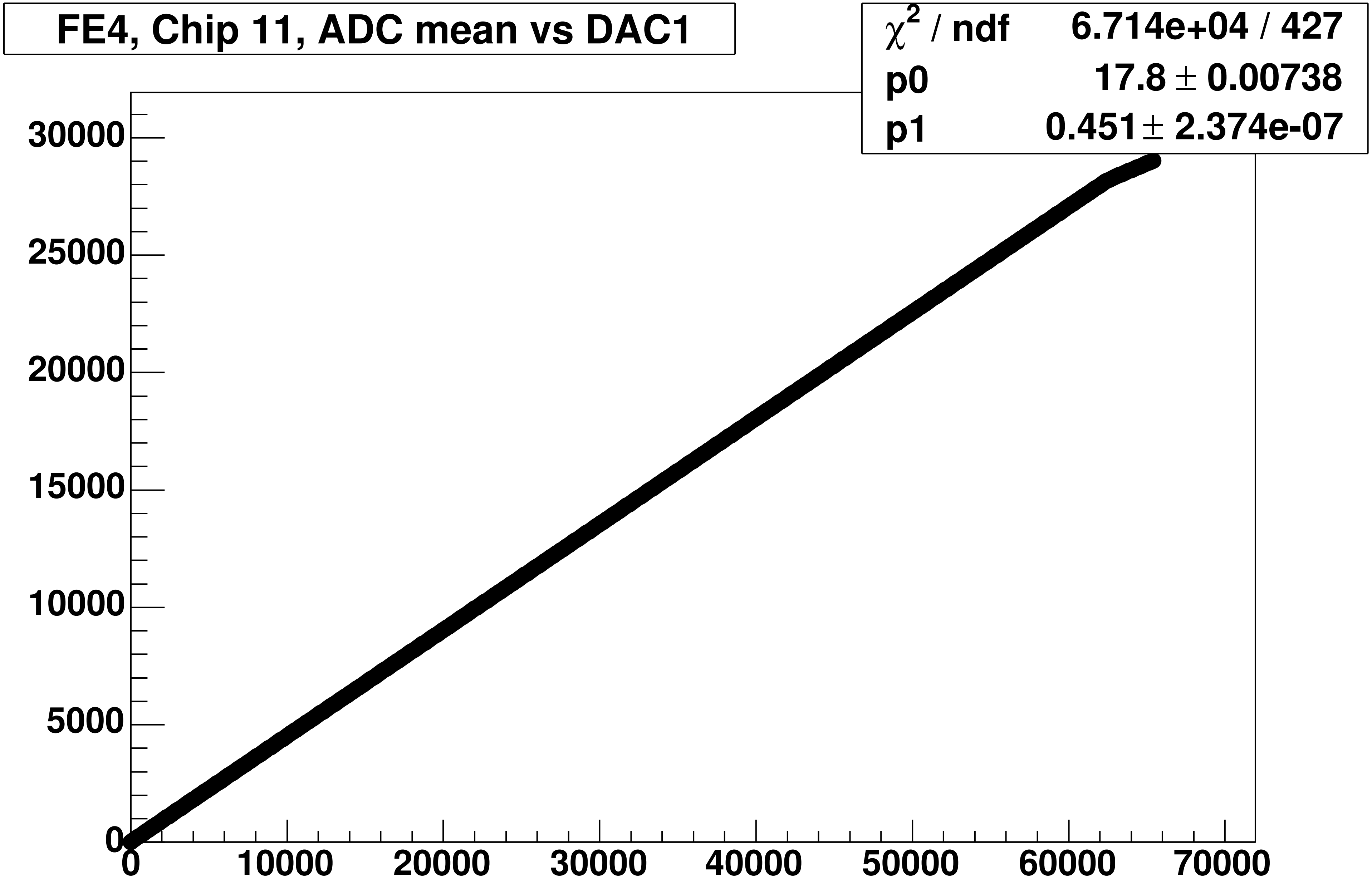
FE4, Chip 11, ADC mean vs DAC0
$\chi^2$ / ndf 3160 / 427
p0 15.16 ± 0.006762
p1 2.866e-07 ± 1.866e-07
15.6
15.4
15.2
15
14.8
14.6
0
10000
20000
30000
40000
50000
60000
70000



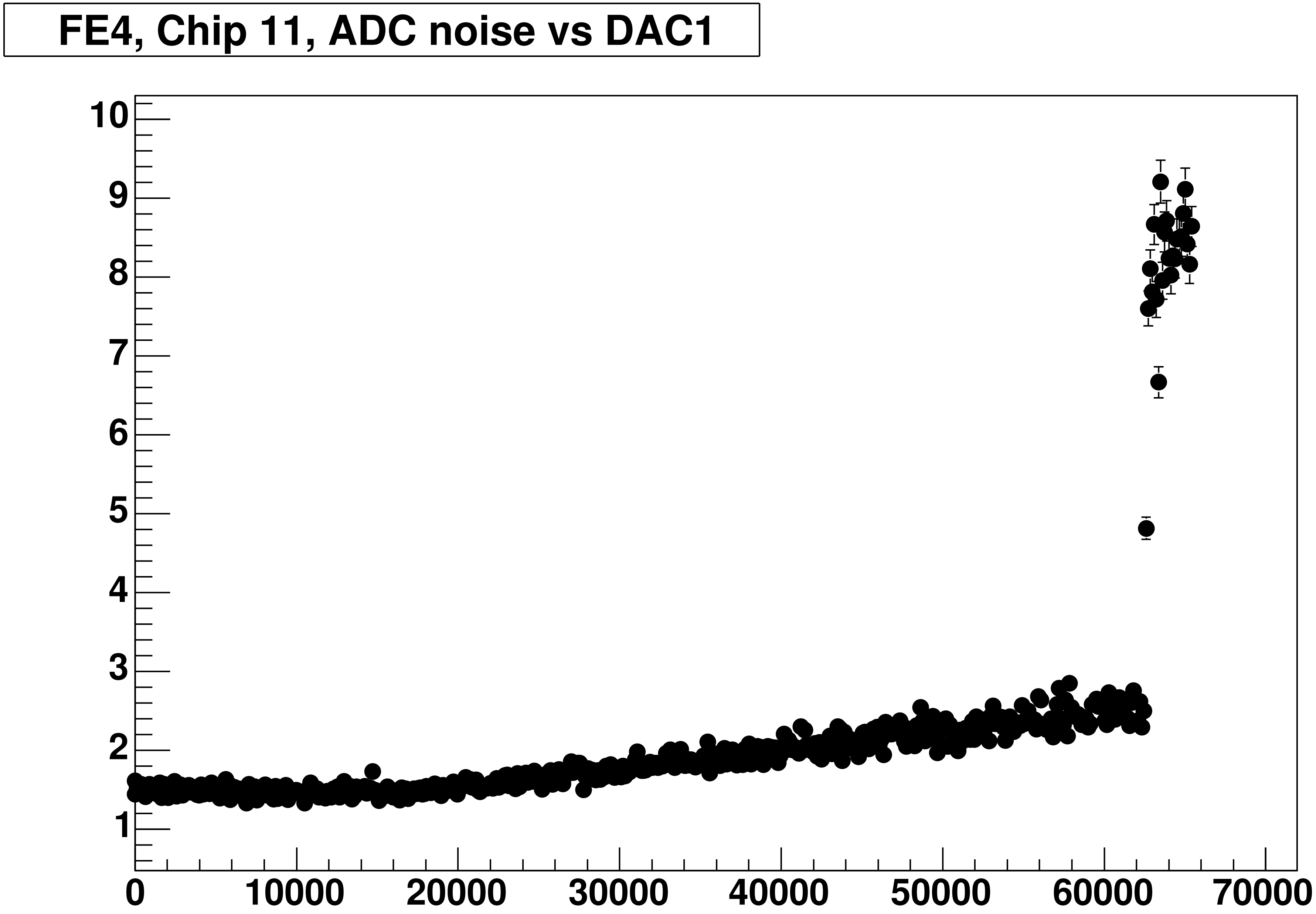
FE4, Chip 11, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
10000
20000
30000
40000
50000
60000
70000

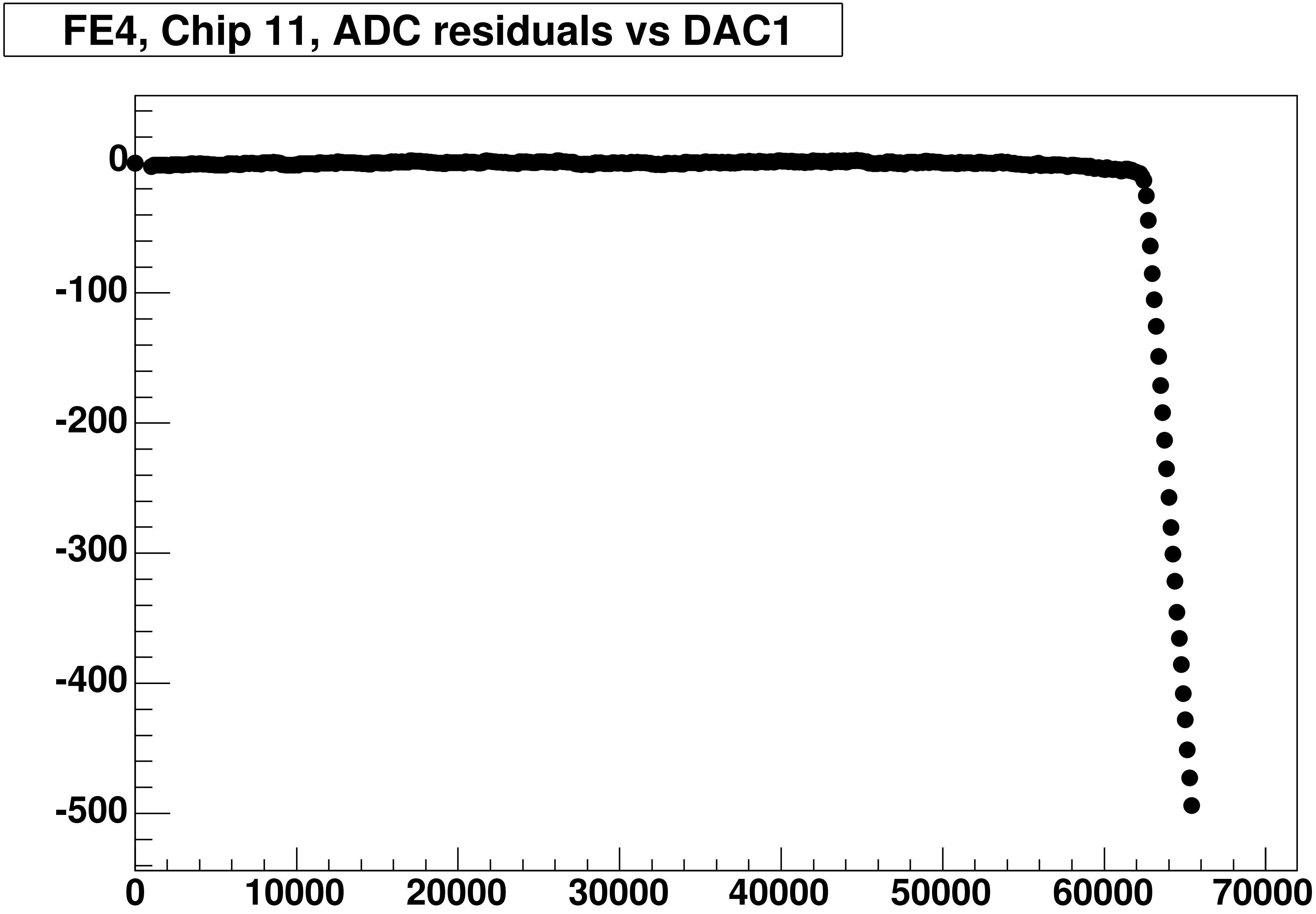


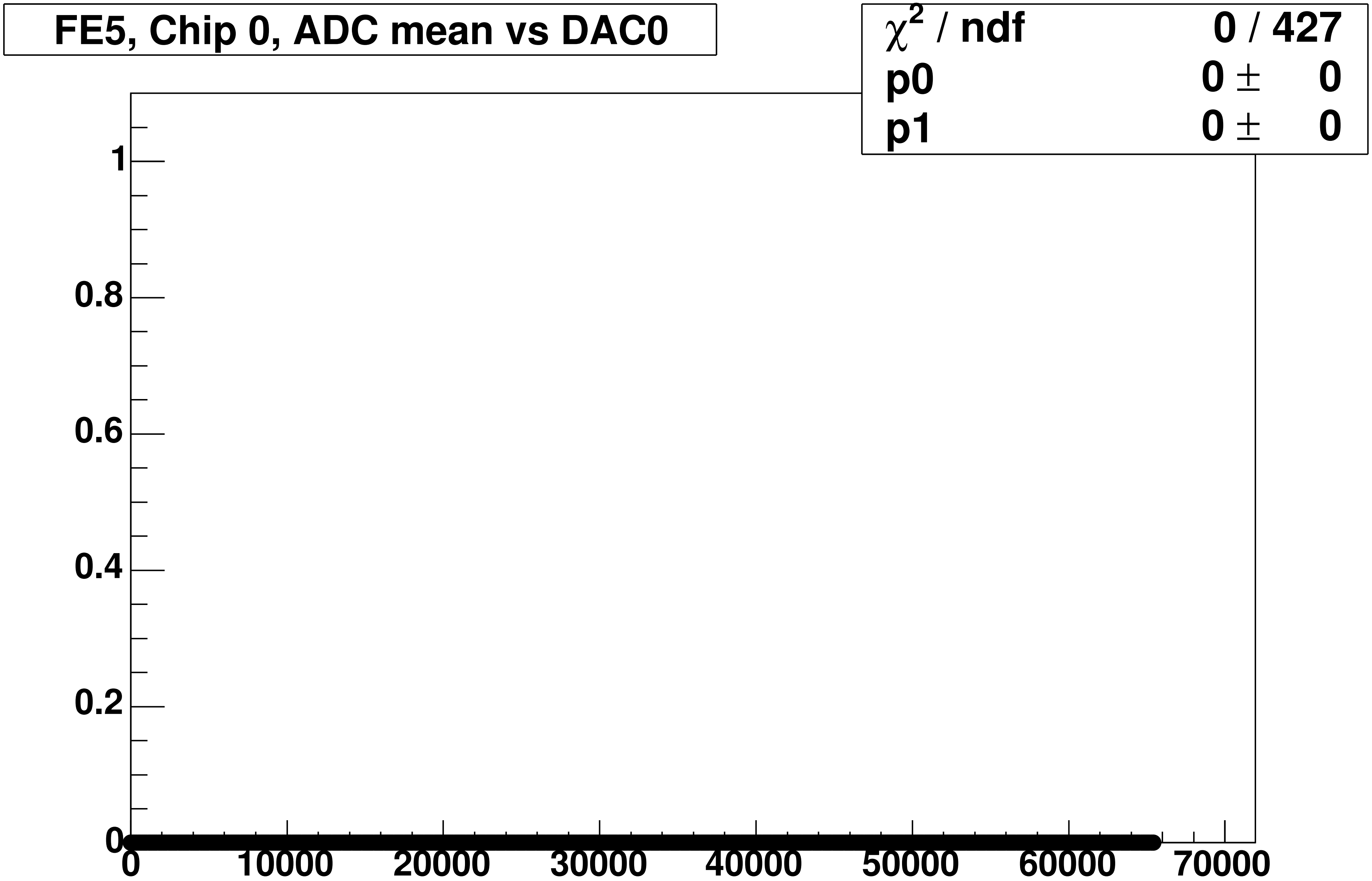
FE4, Chip 11, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
10000
20000
30000
40000
50000
60000
70000



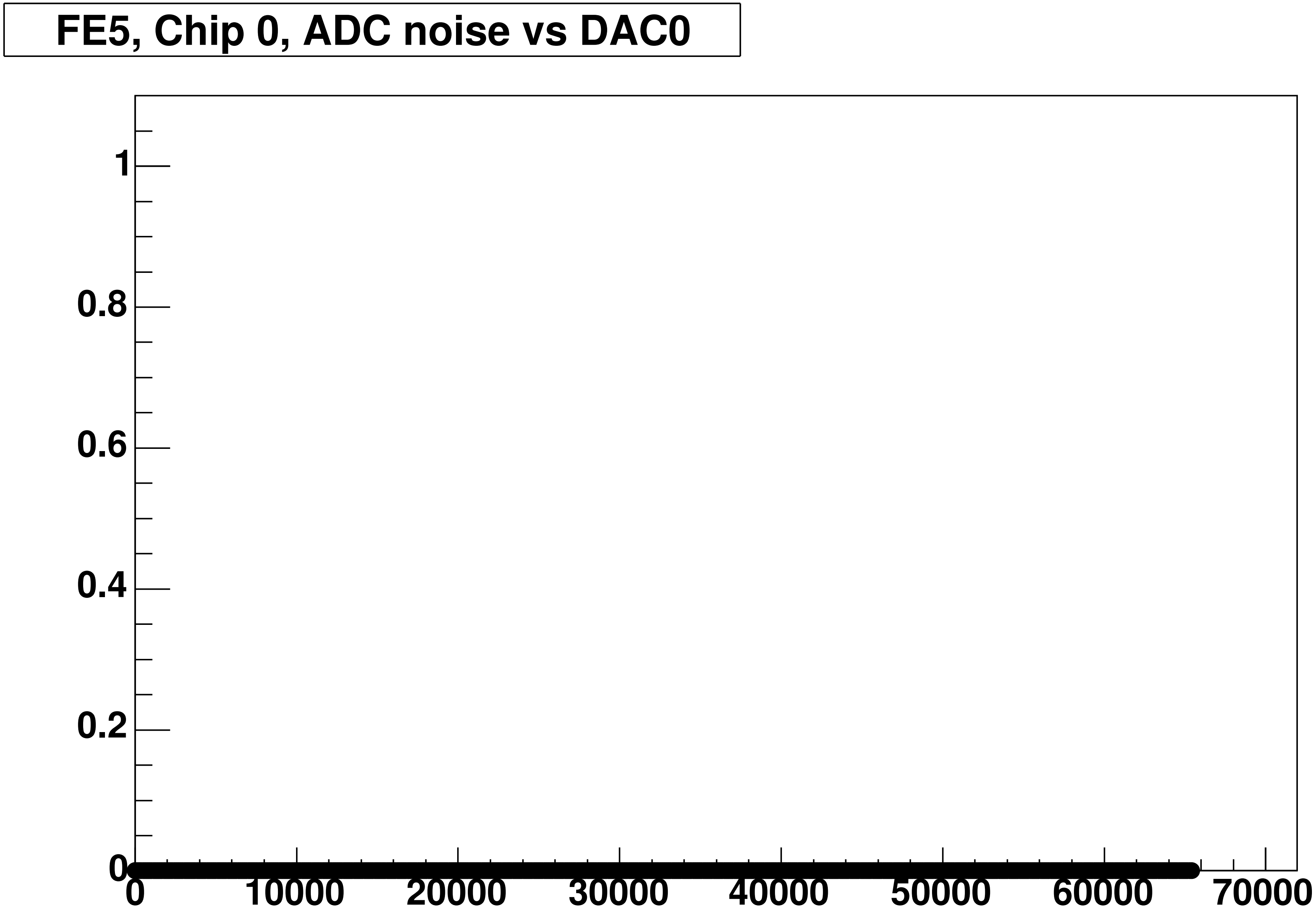
FE4, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 6.714e+04 / 427
p0 17.8 ± 0.00738
p1 0.451 ± 2.374e-07
0
5000
10000
15000
20000
25000
30000
0
10000
20000
30000
40000
50000
60000
70000


FE4, Chip 11, ADC noise vs DAC1
10
9
8
7
6
5
4
3
2
1
0
10000
20000
30000
40000
50000
60000
70000

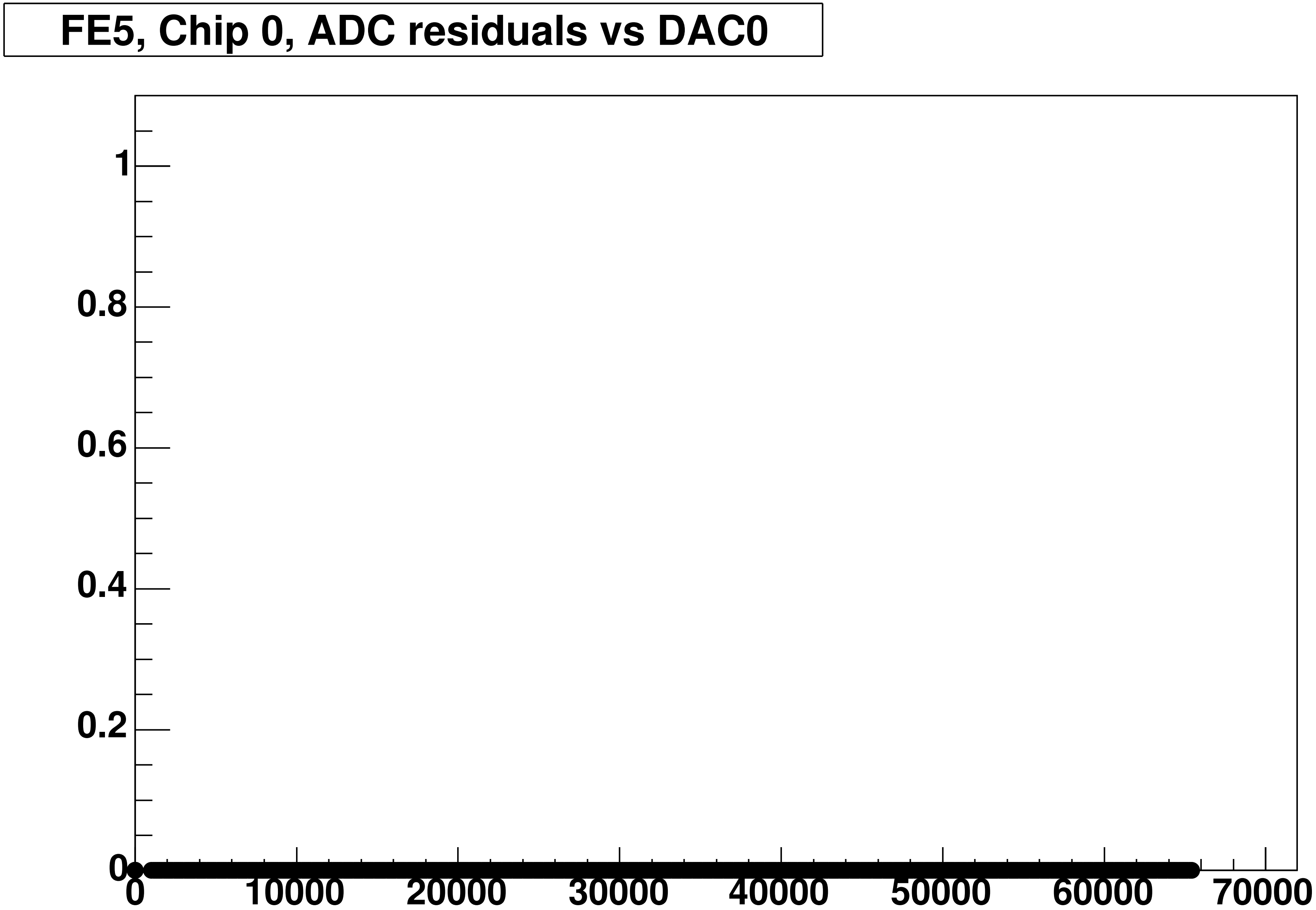

FE4, Chip 11, ADC residuals vs DAC1
0
-100
-200
-300
-400
-500
0
10000
20000
30000
40000
50000
60000
70000

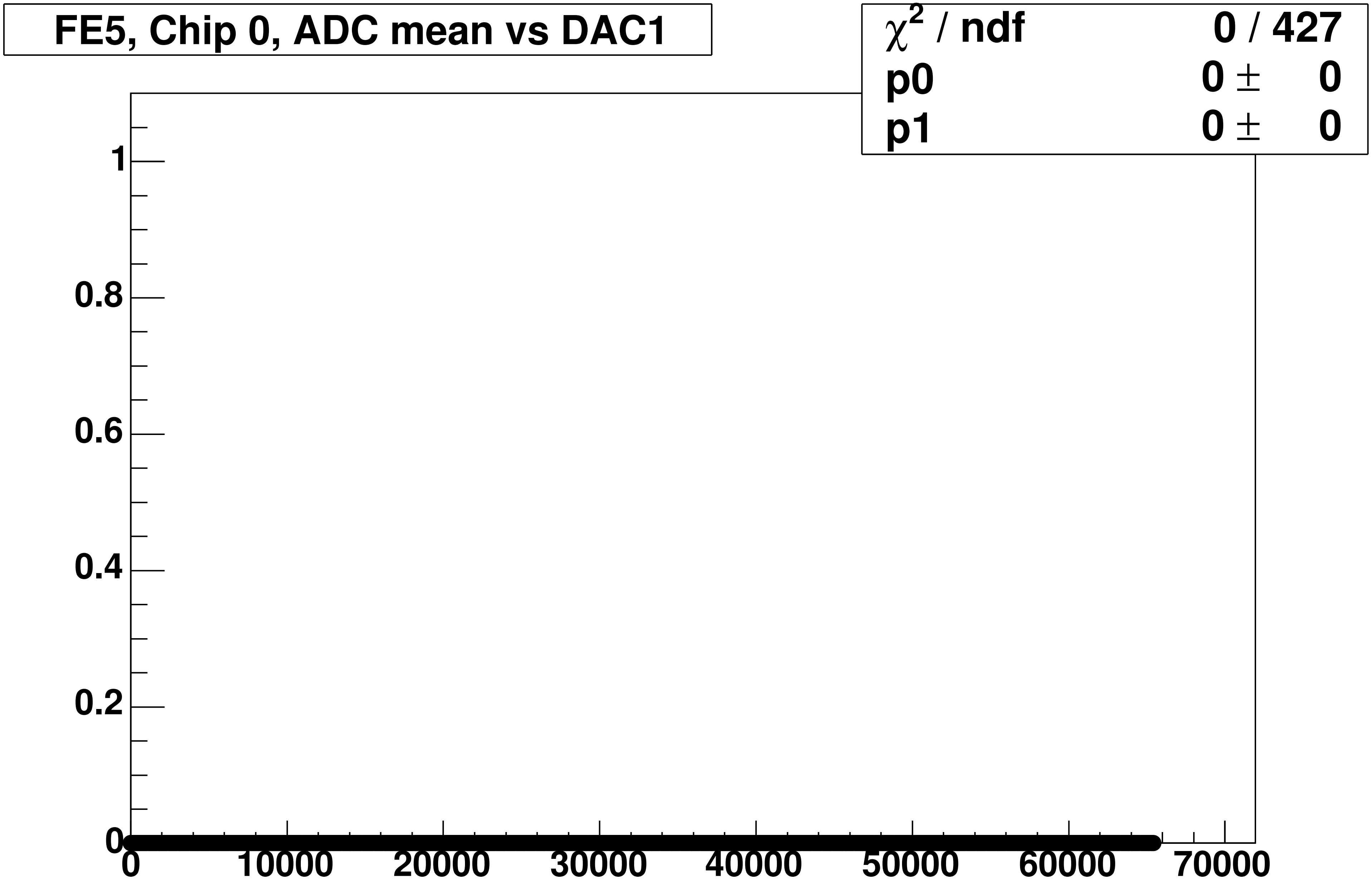


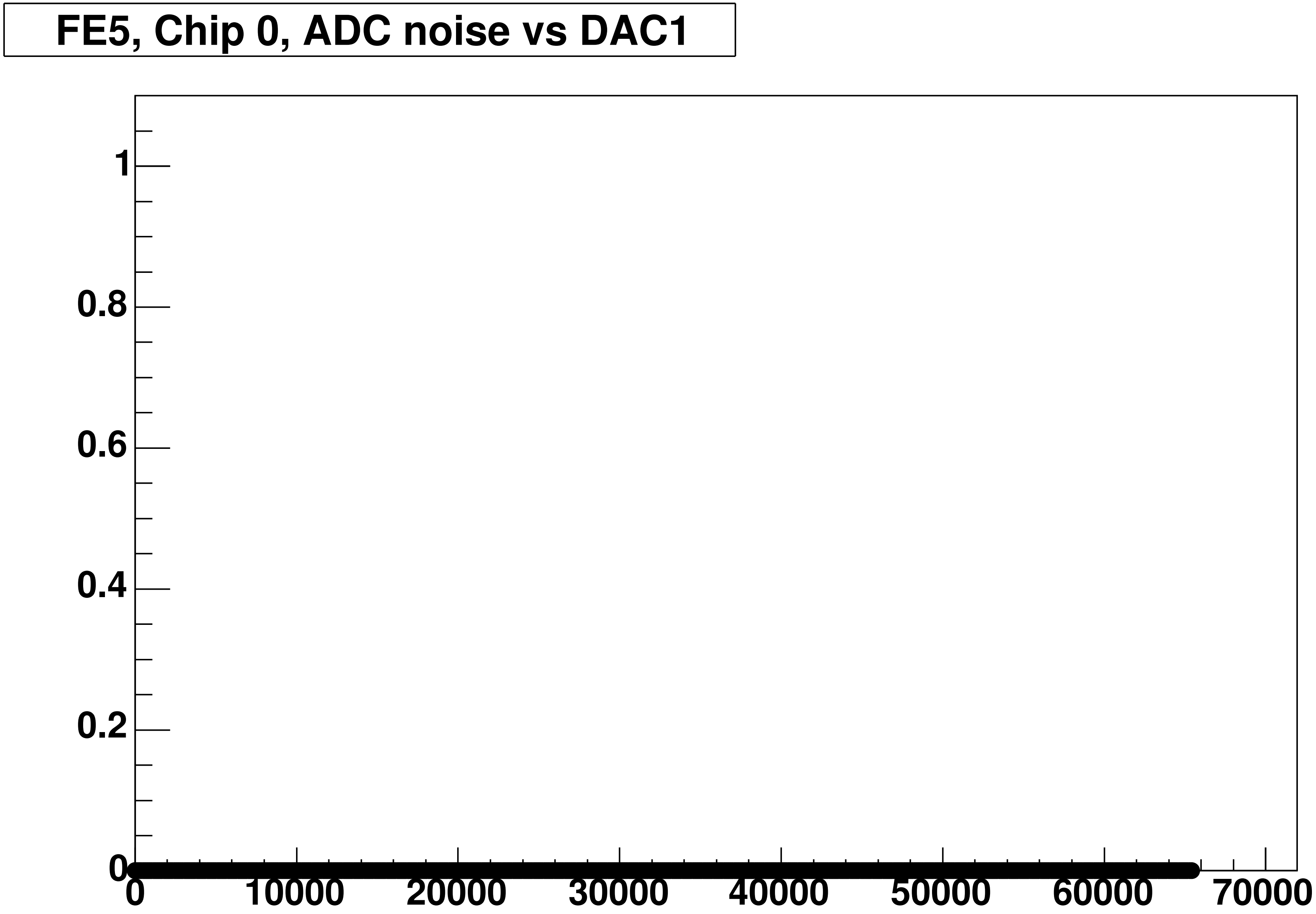
FE5, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



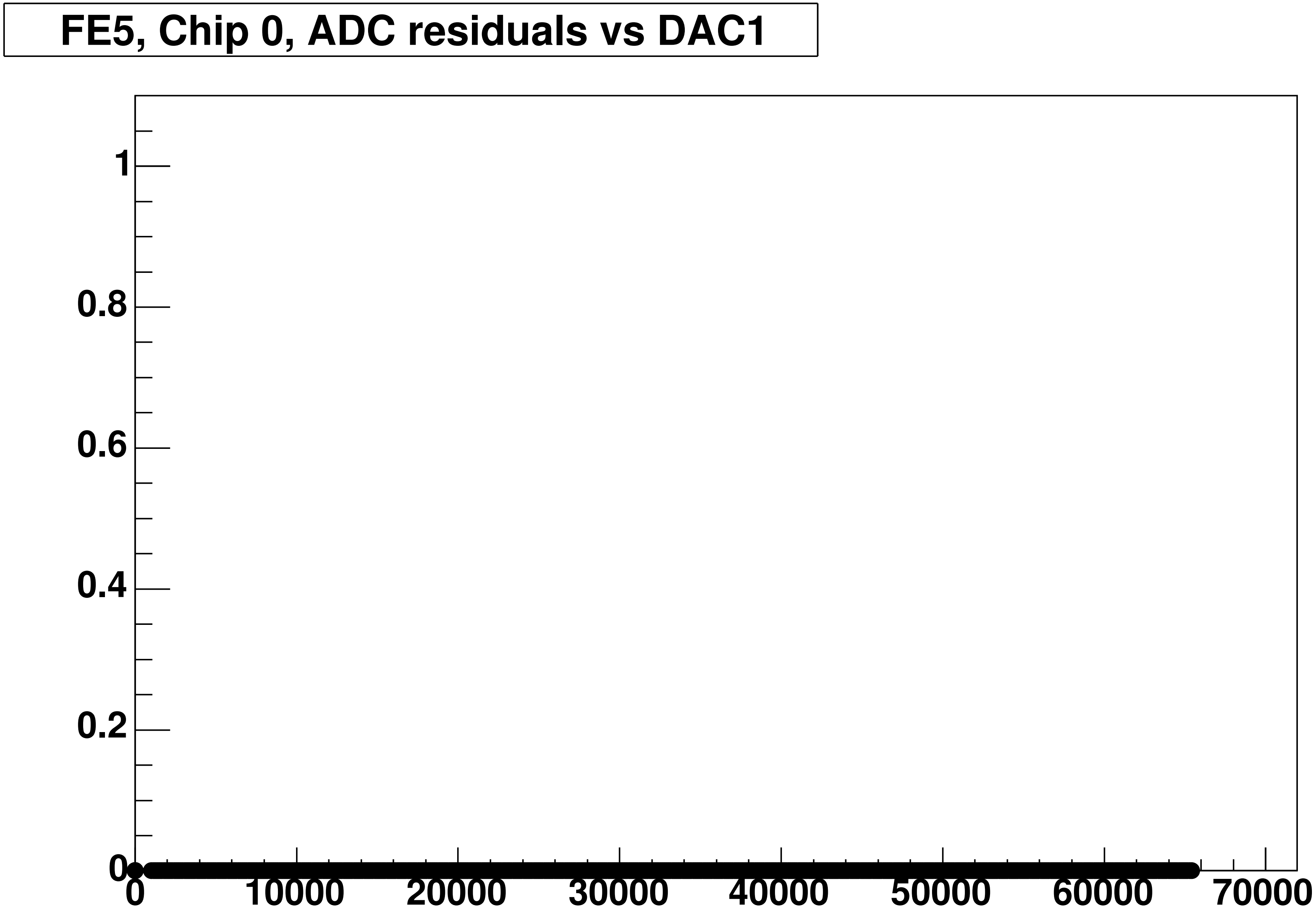
FE5, Chip 0, ADC noise vs DAC0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

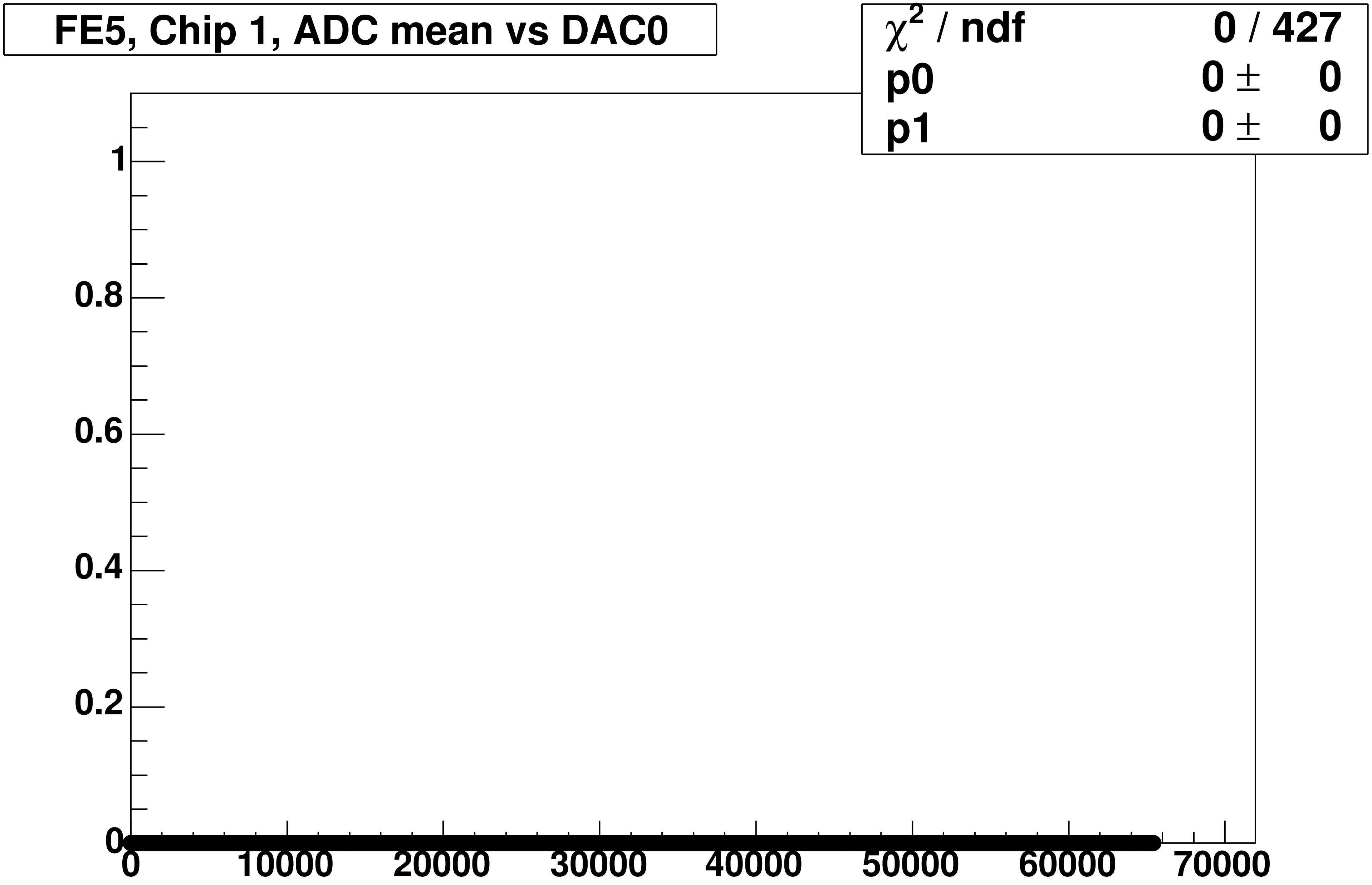

FE5, Chip 0, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

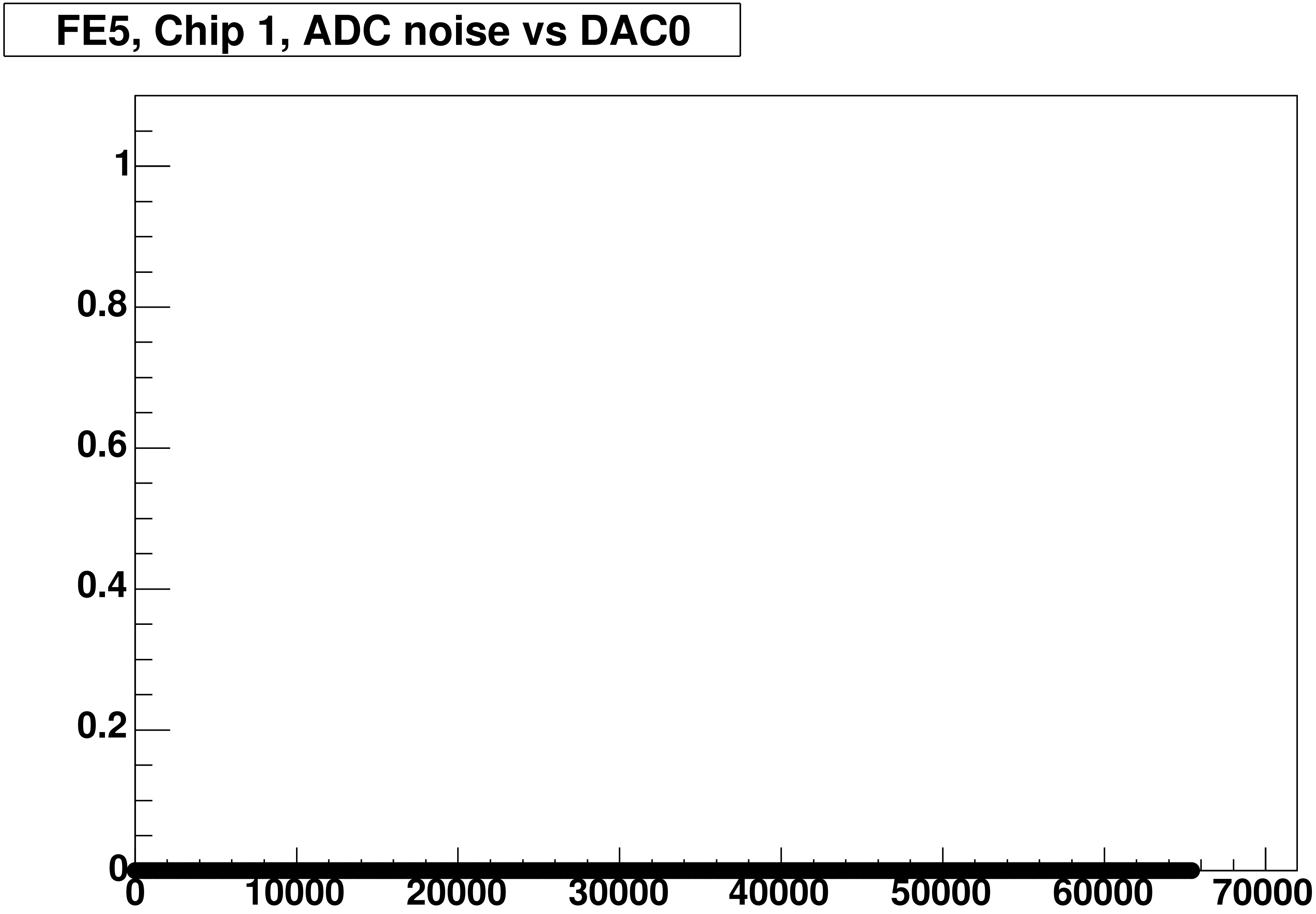

FE5, Chip 0, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

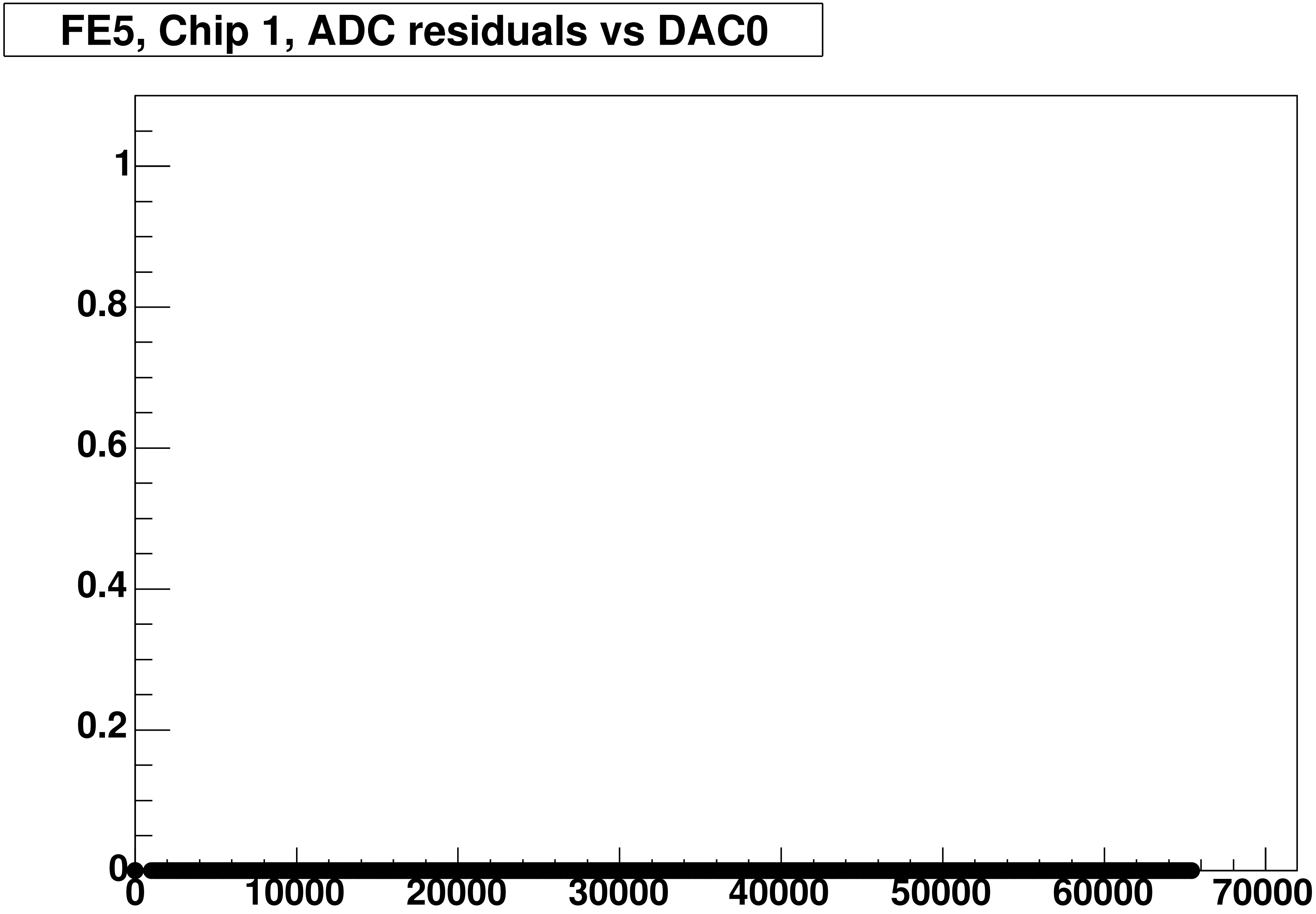


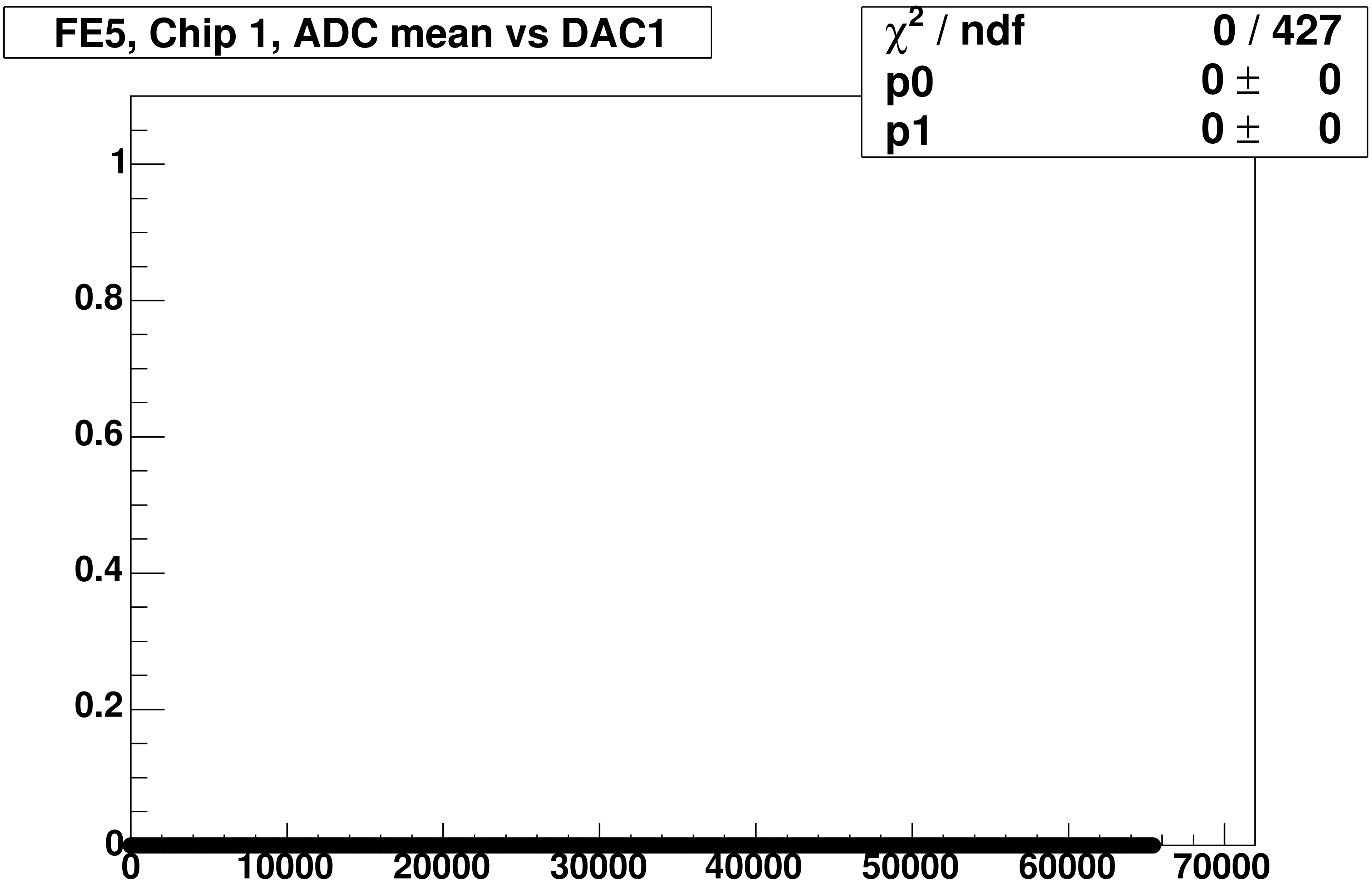
FE5, Chip 0, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

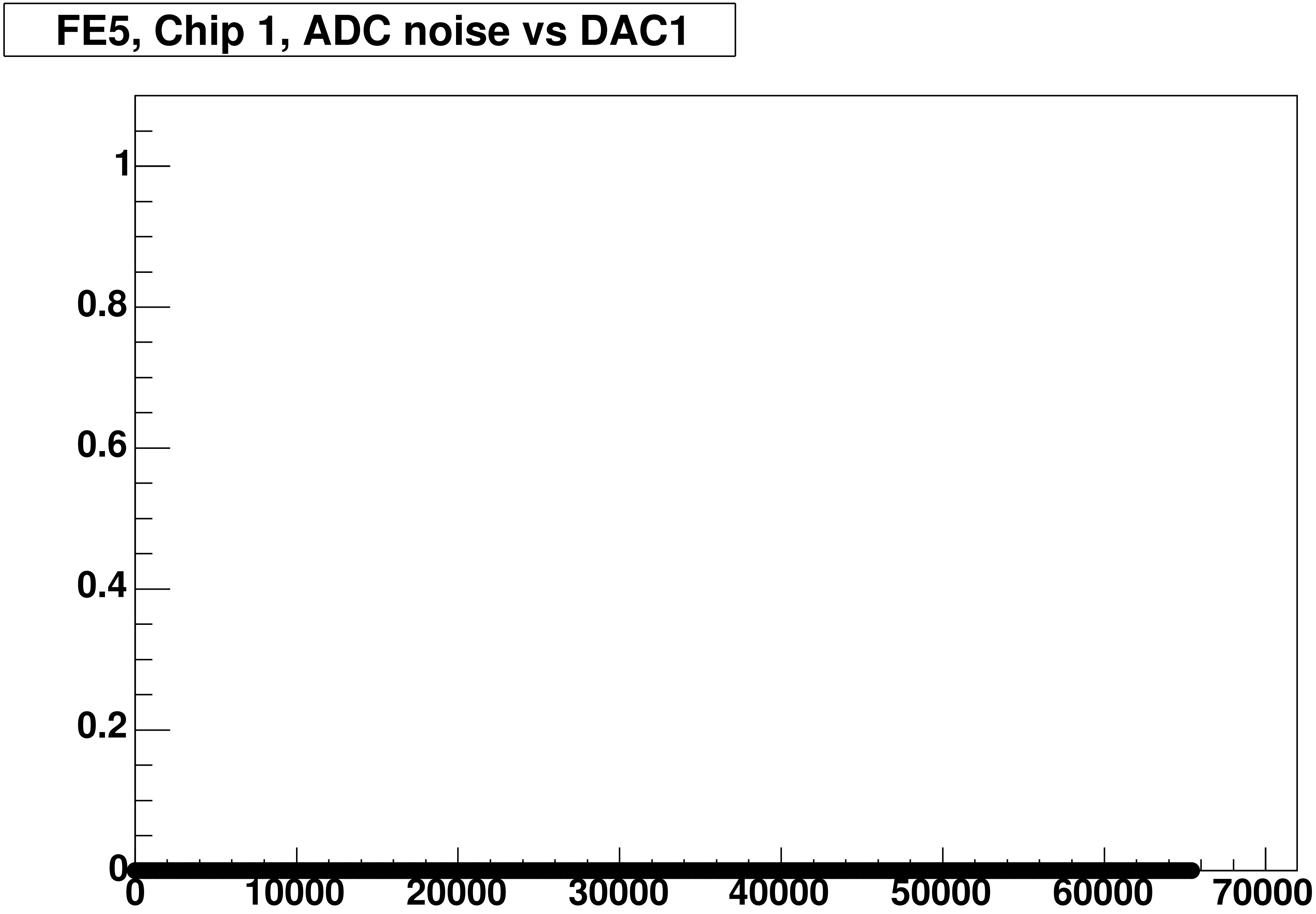

FE5, Chip 0, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

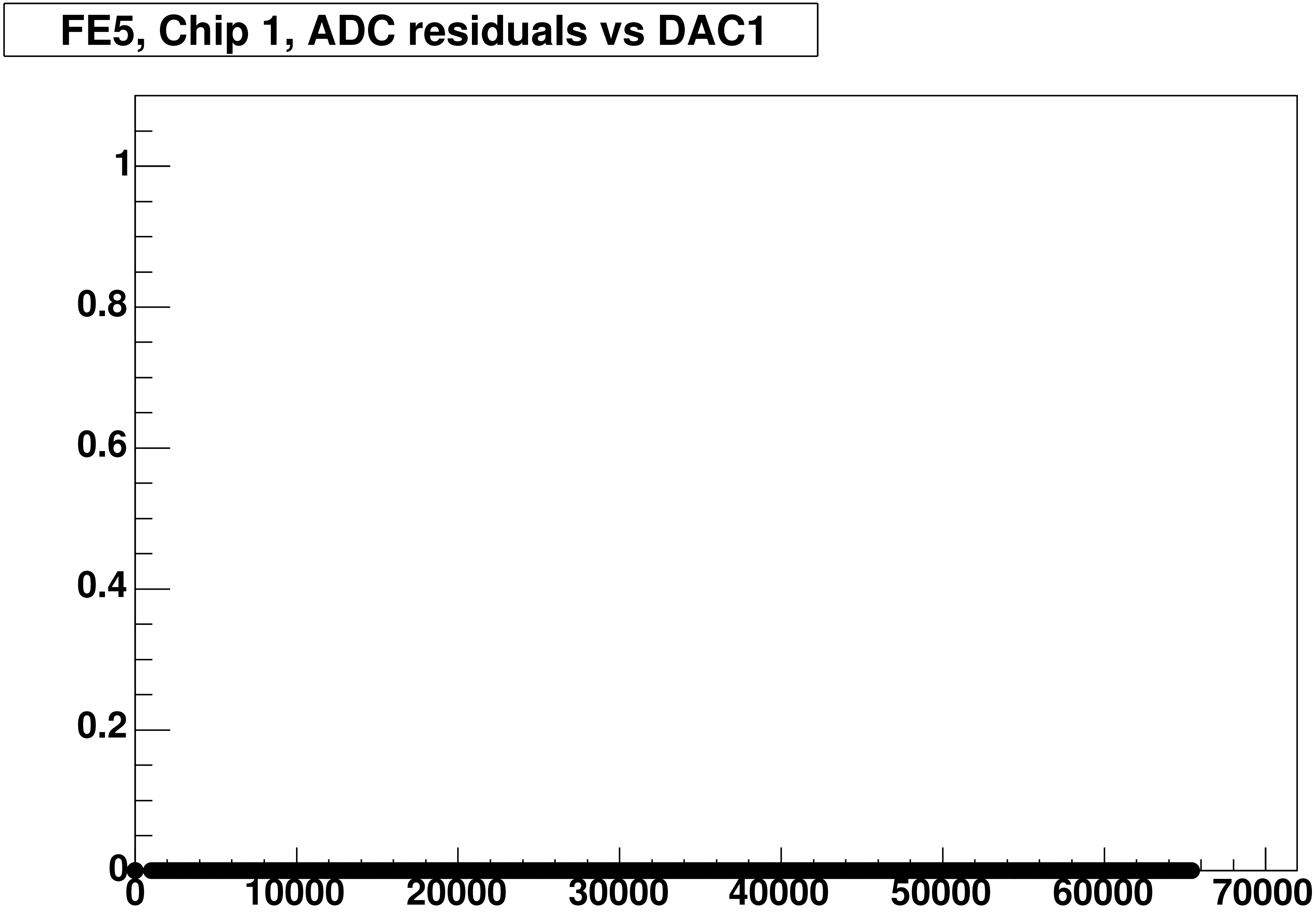

FE5, Chip 1, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000


FE5, Chip 1, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

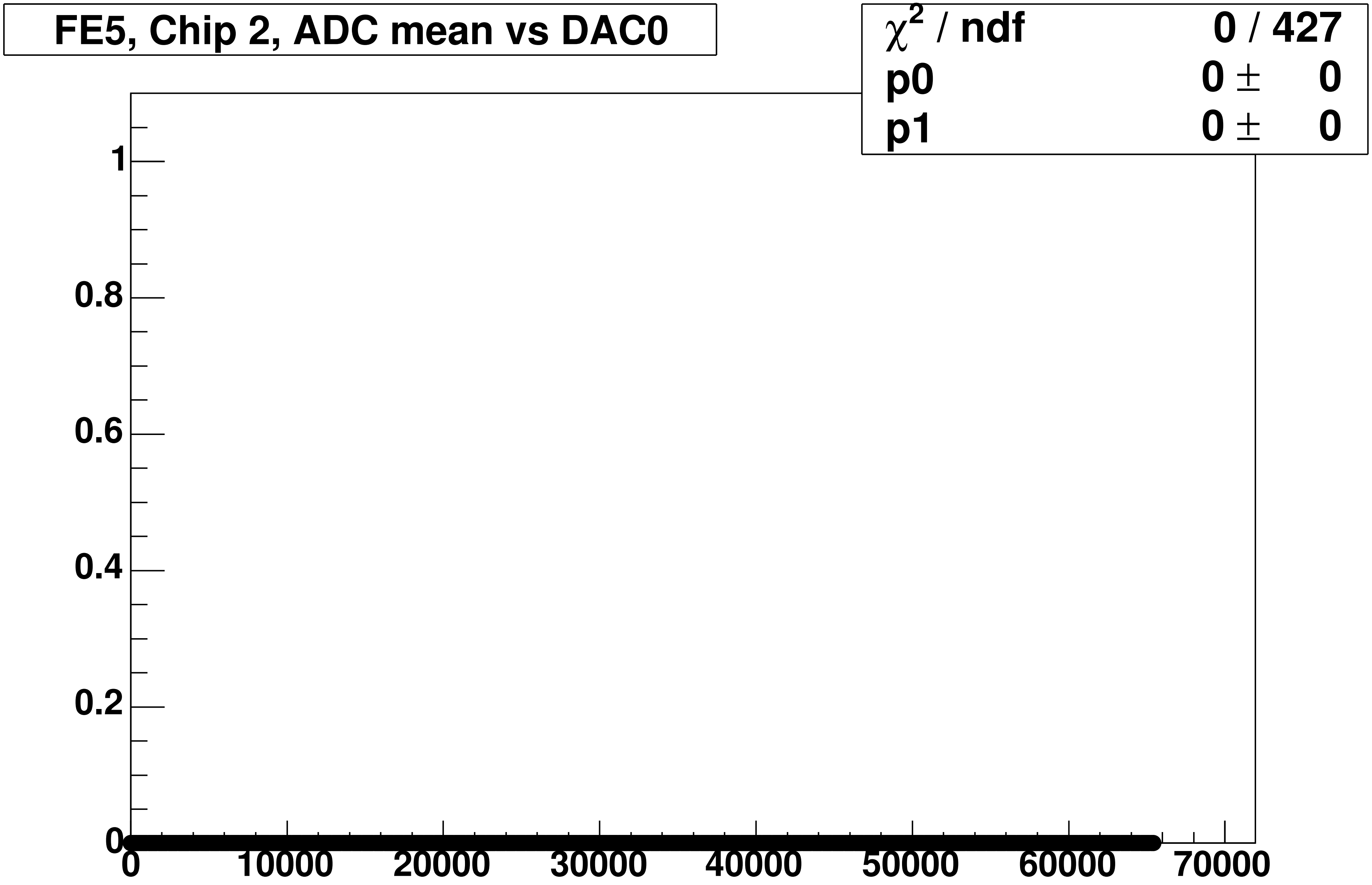

FE5, Chip 1, ADC residuals vs DAC0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

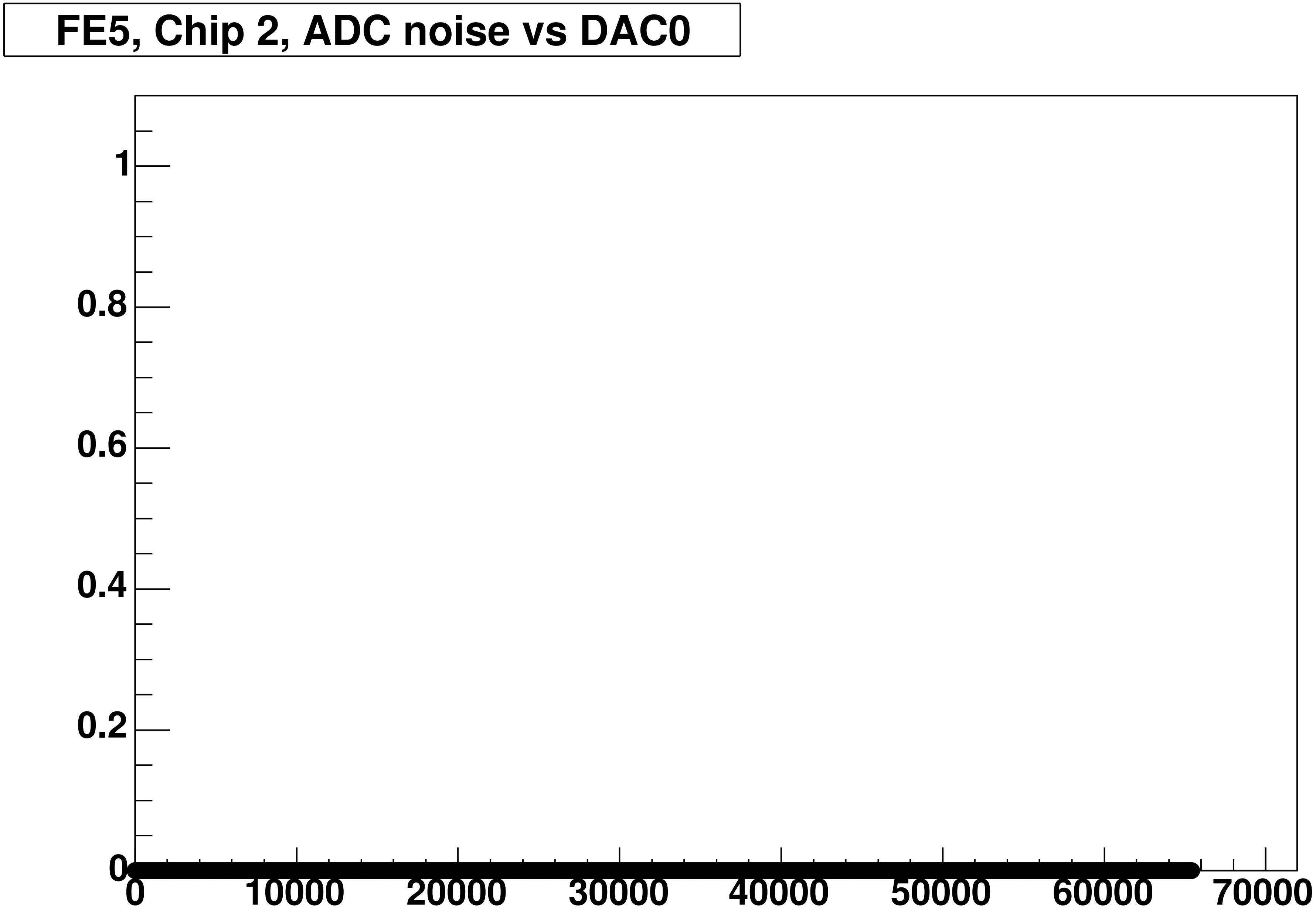

FE5, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

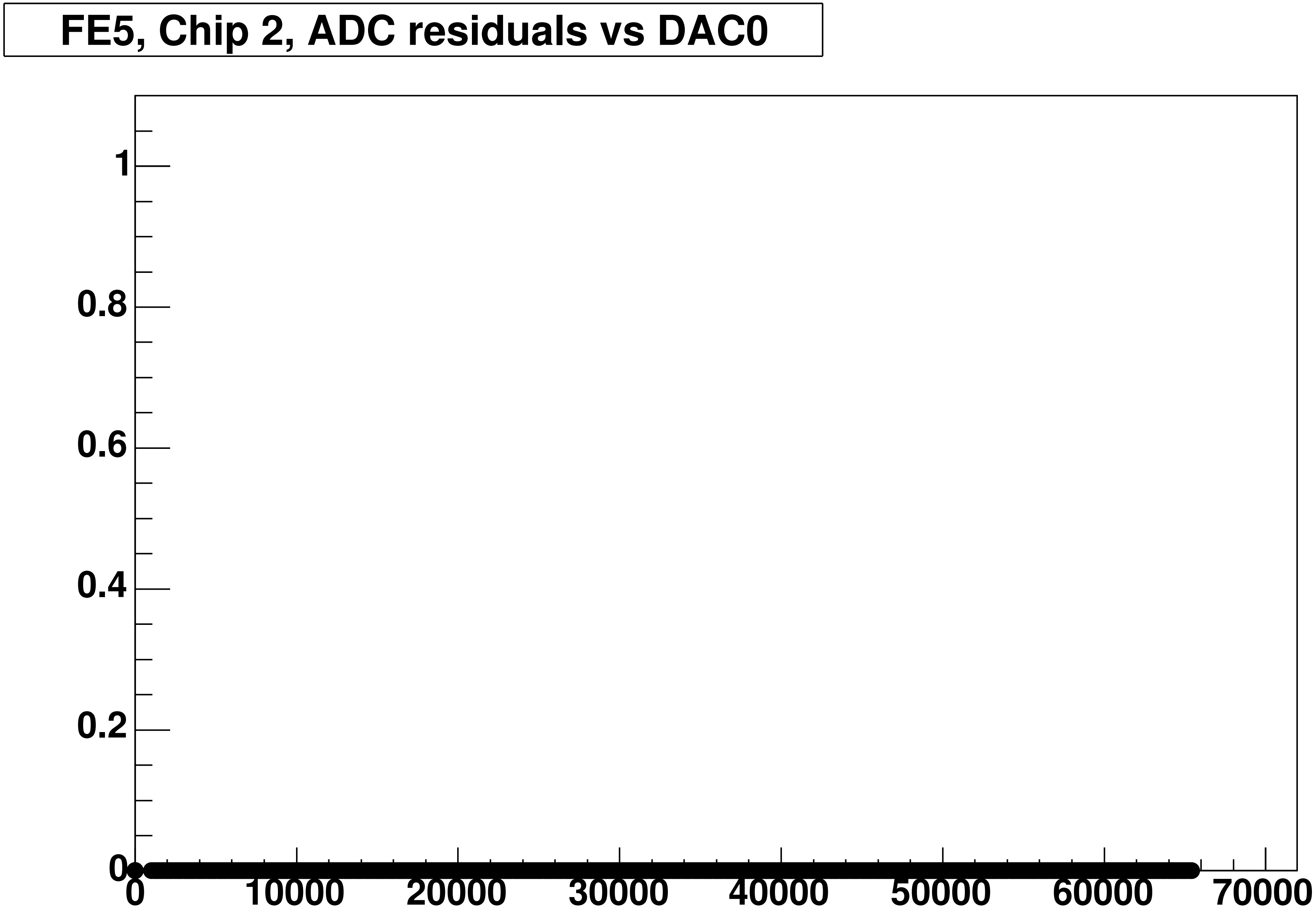

FE5, Chip 1, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

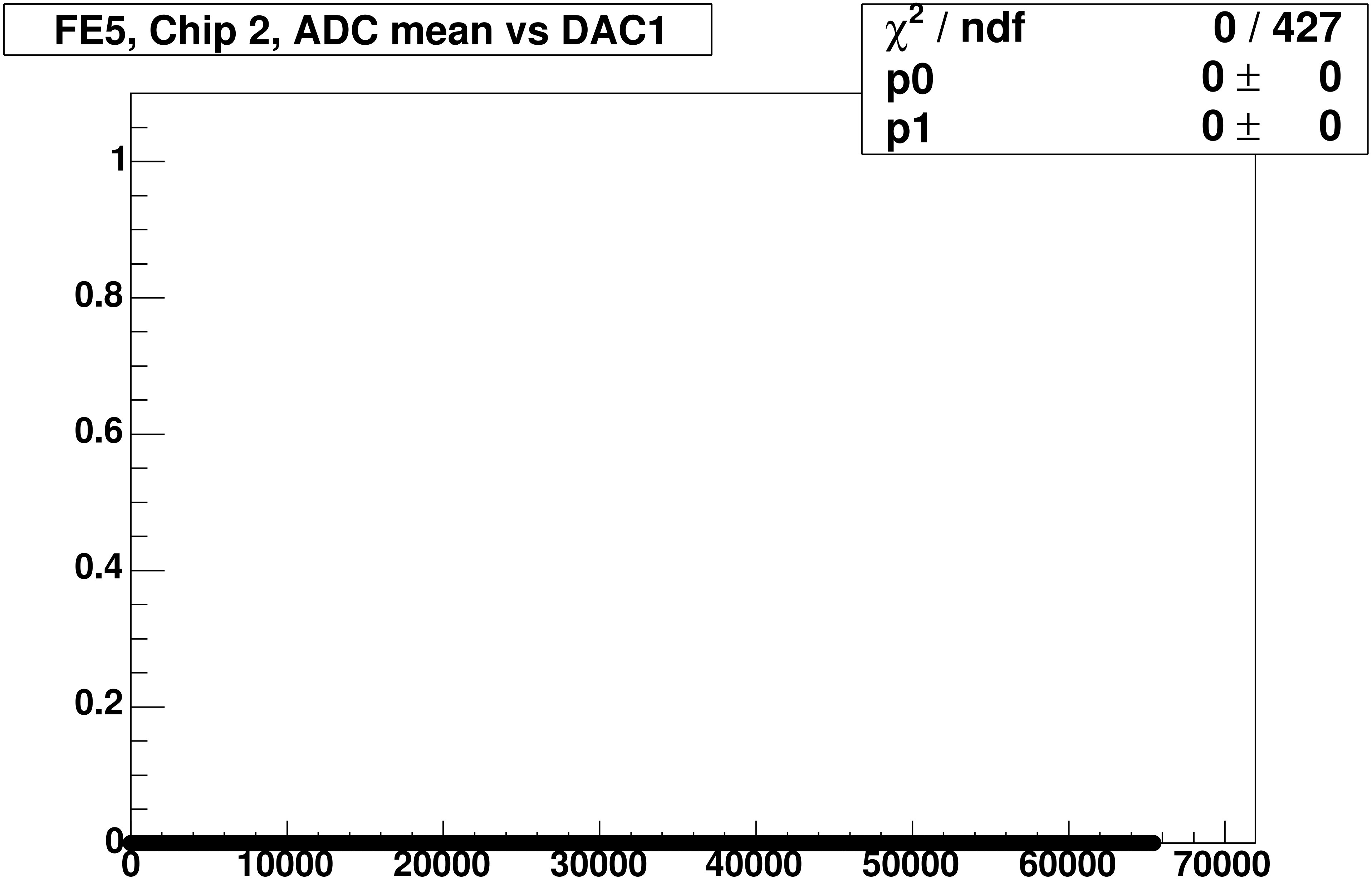


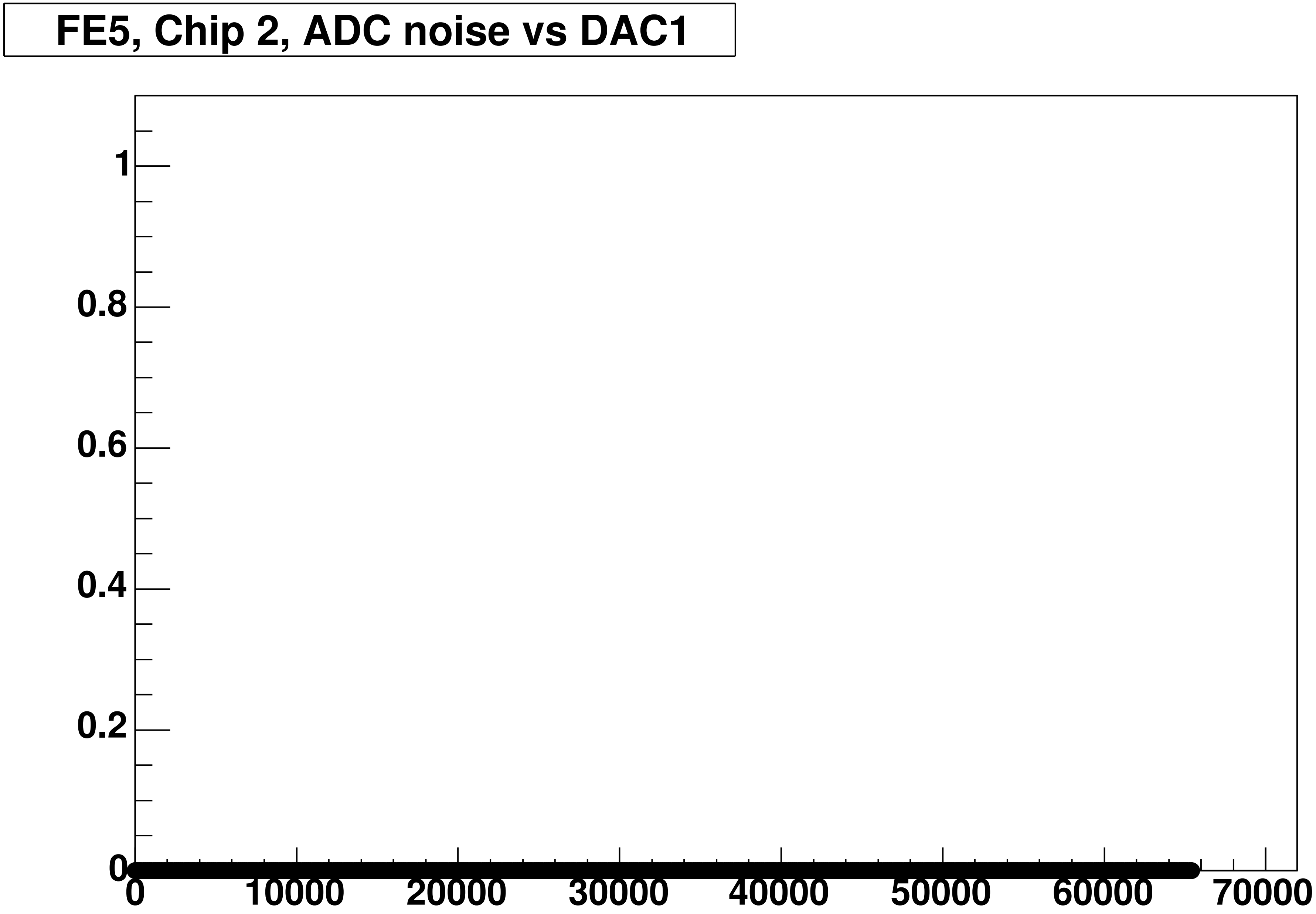
FE5, Chip 1, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

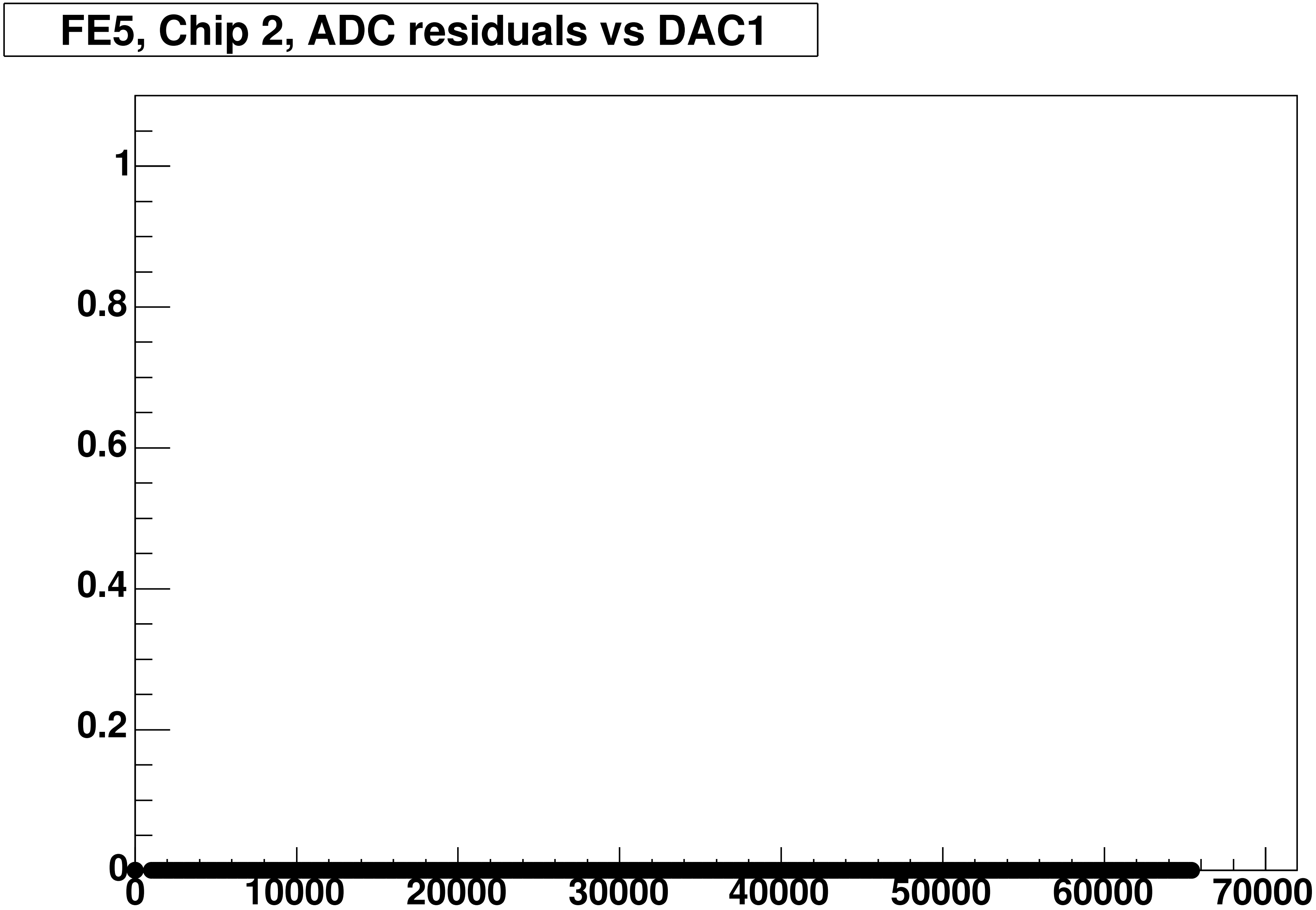

FE5, Chip 2, ADC mean vs DAC0
χ² / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE5, Chip 2, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

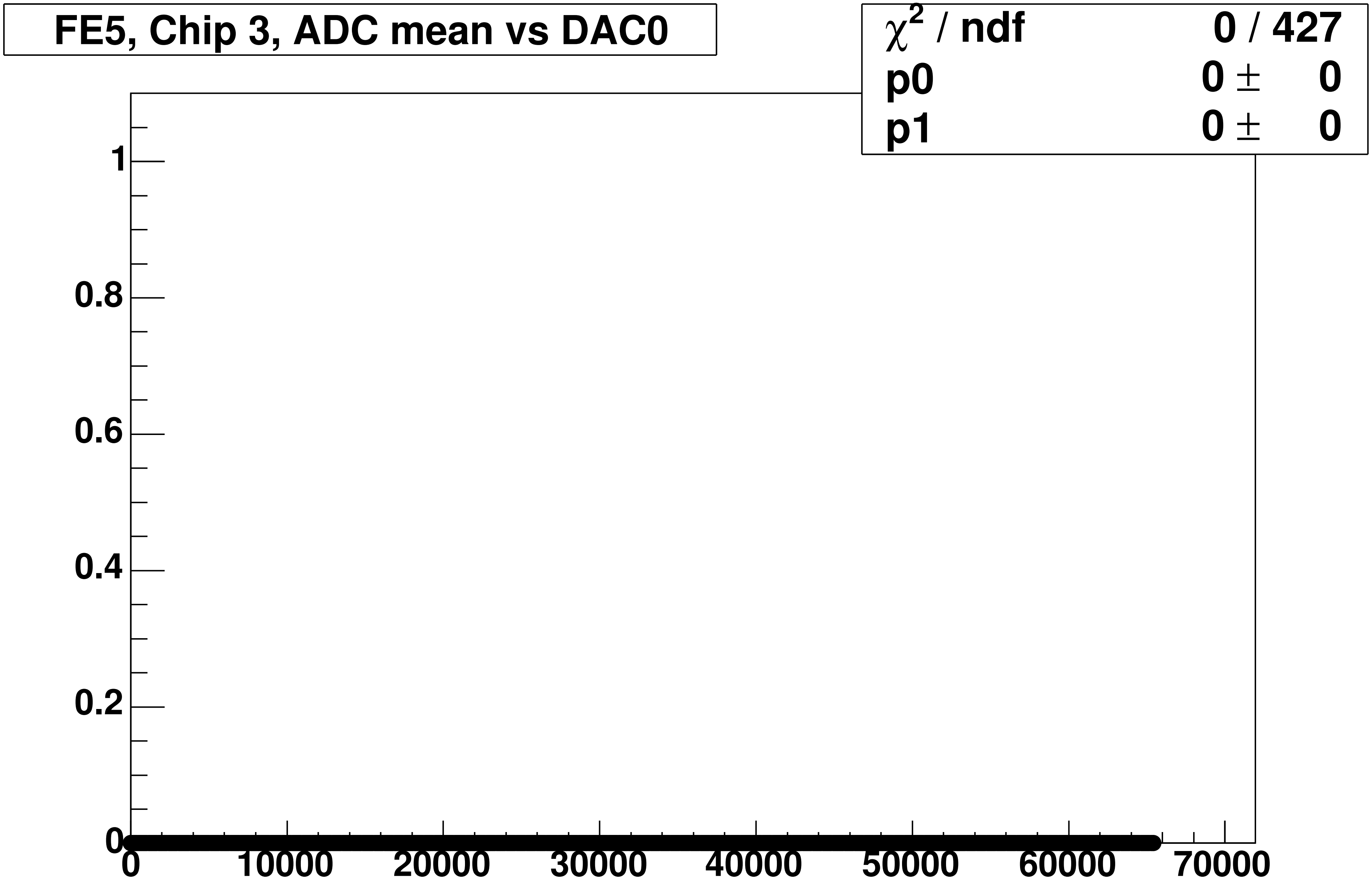

FE5, Chip 2, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

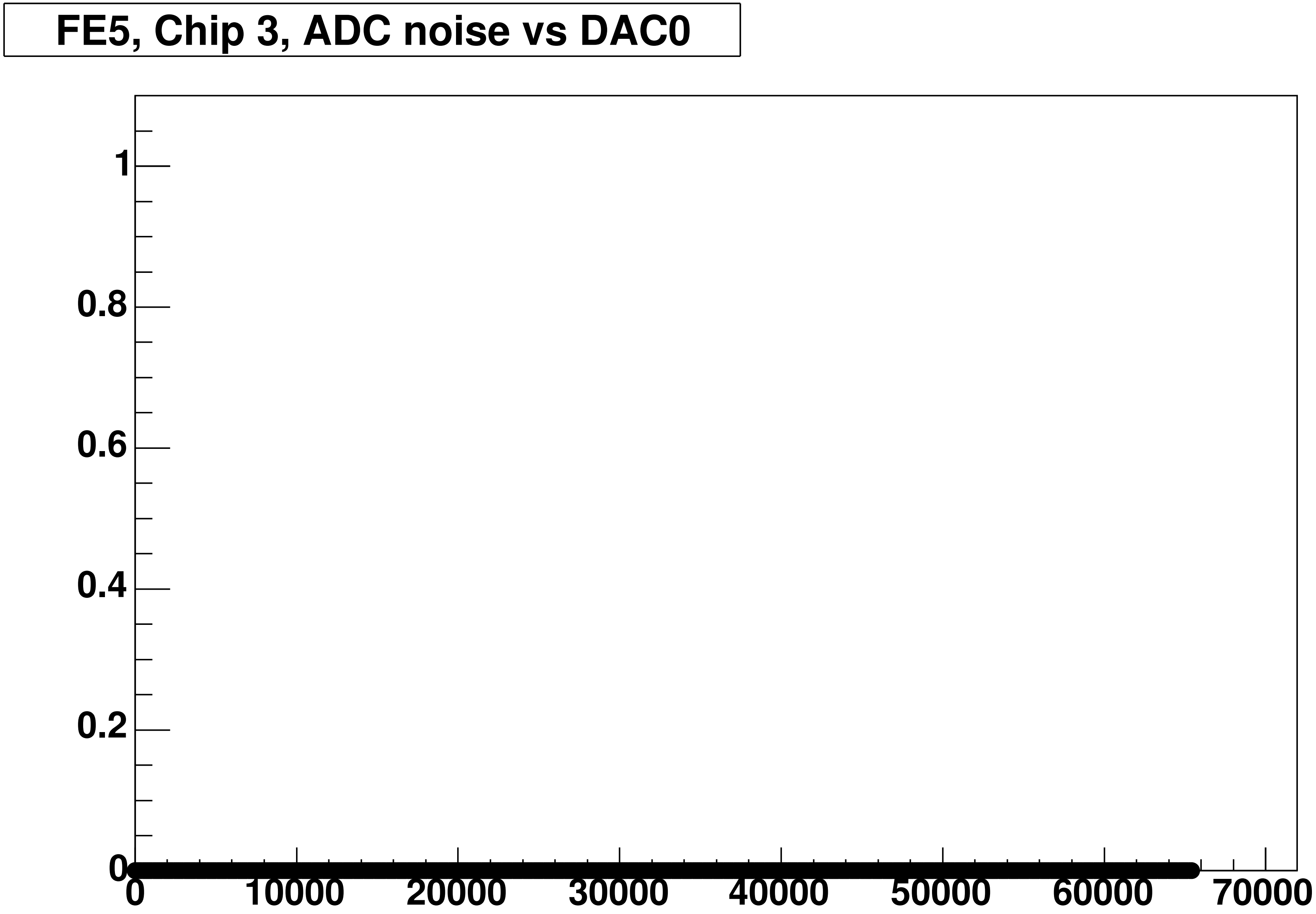

FE5, Chip 2, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

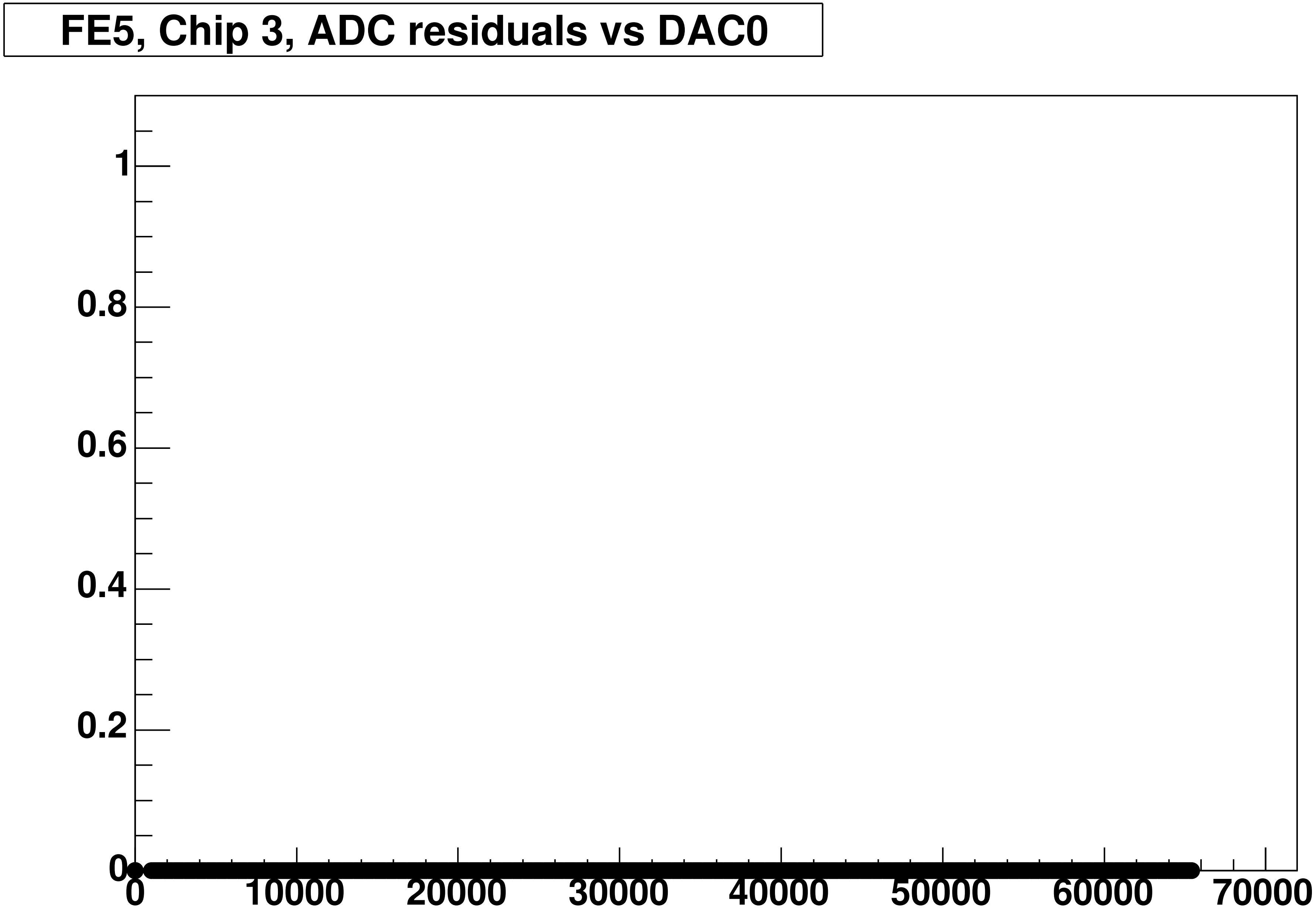

FE5, Chip 2, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

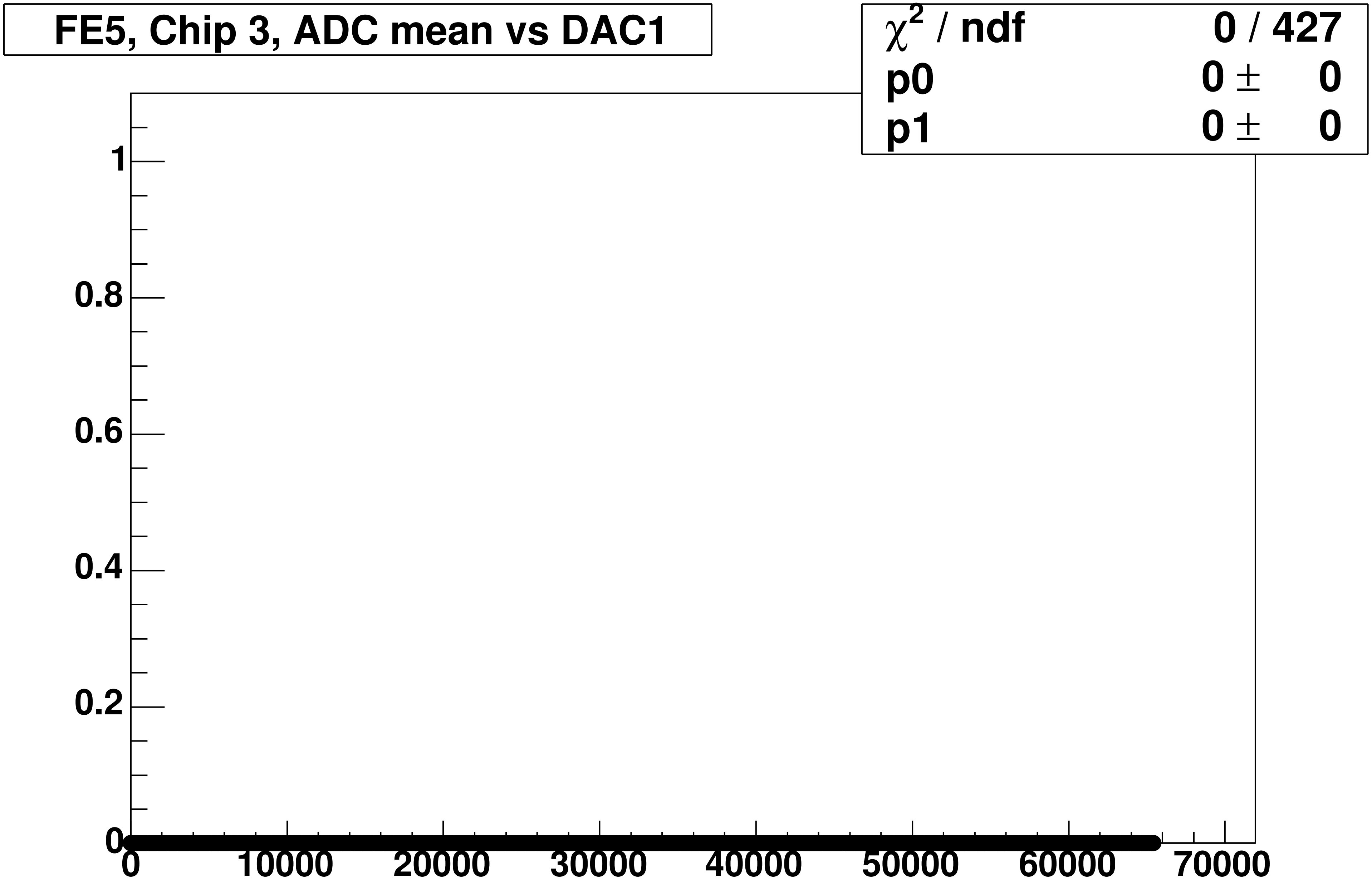


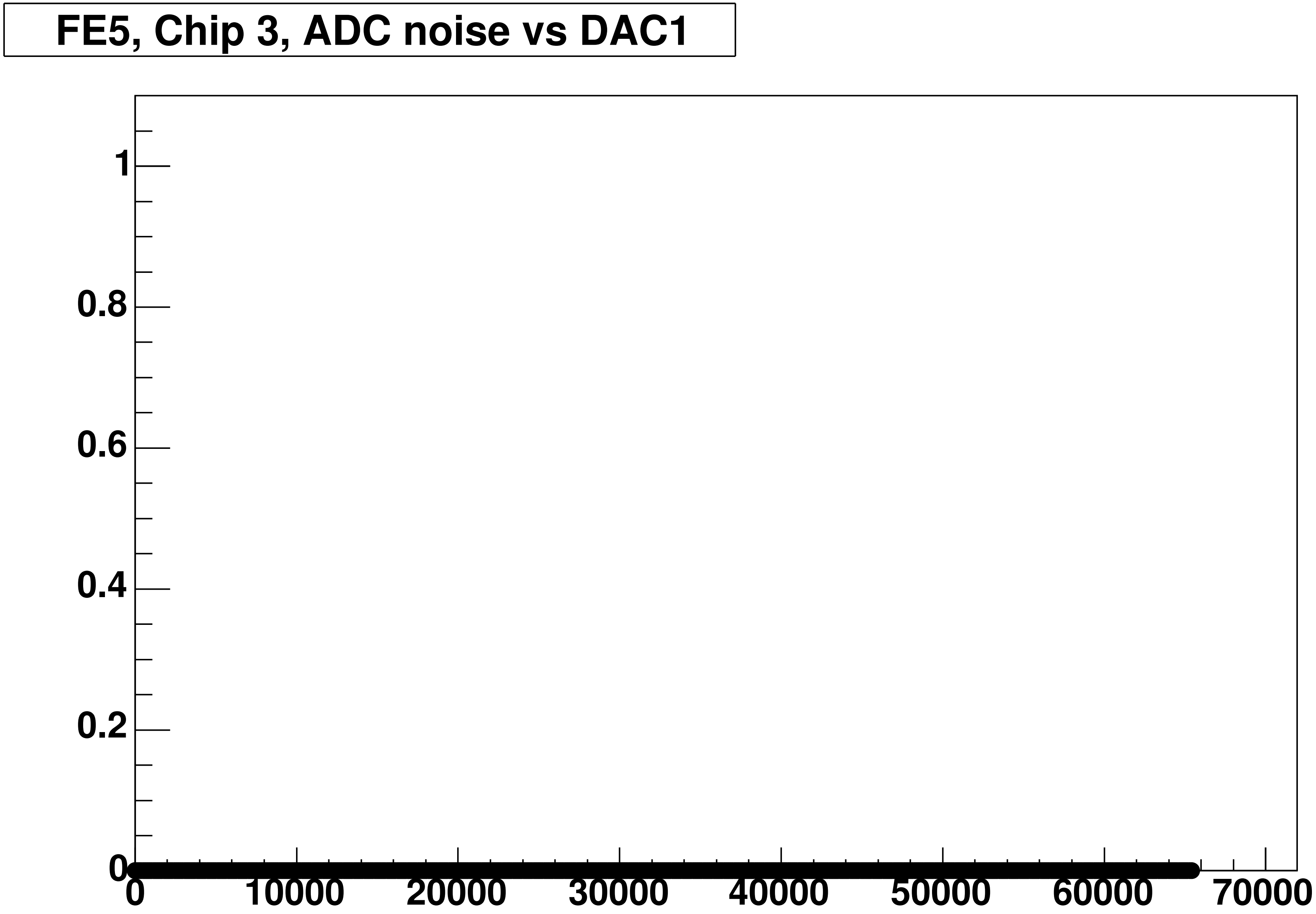
FE5, Chip 2, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

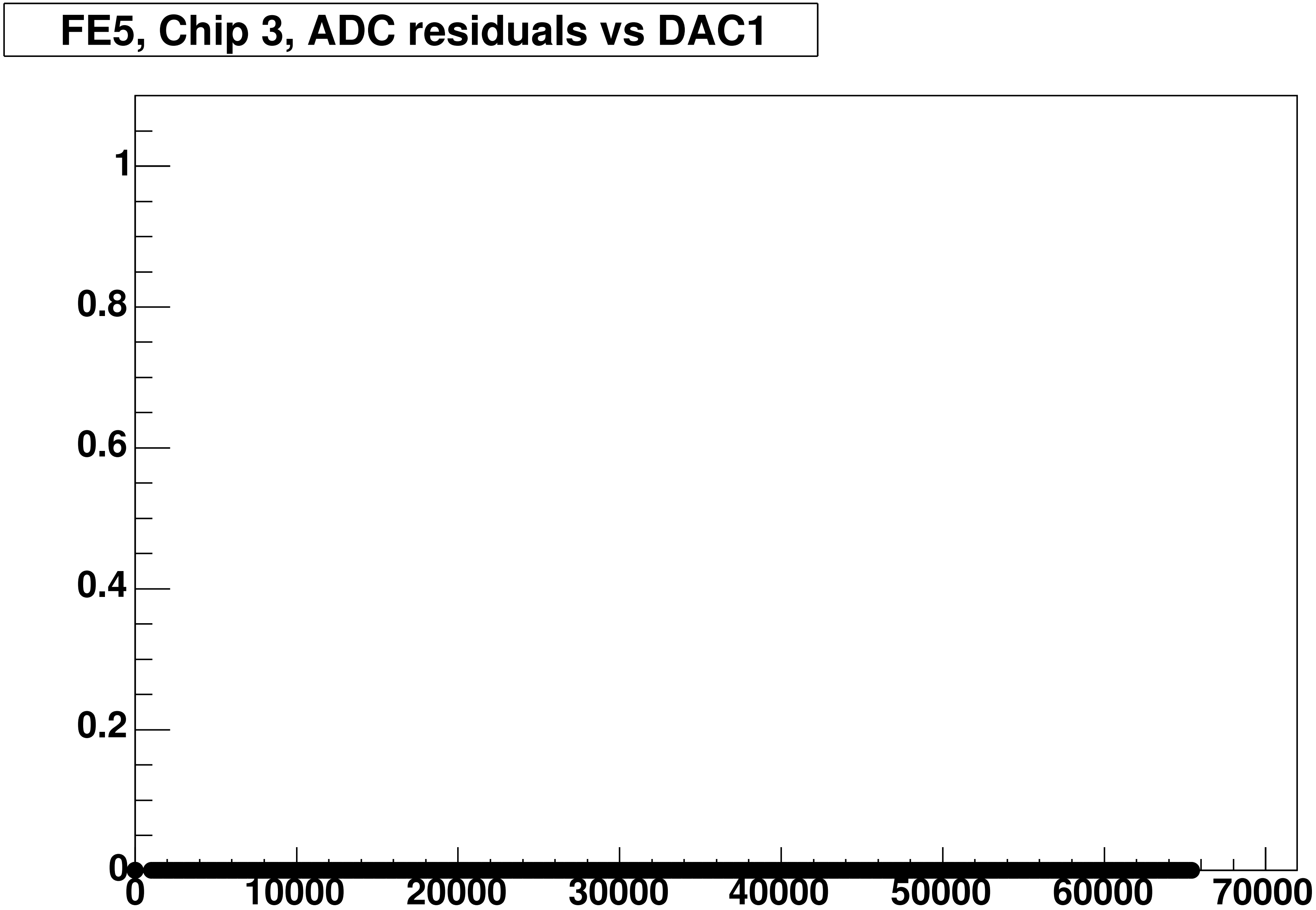

FE5, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

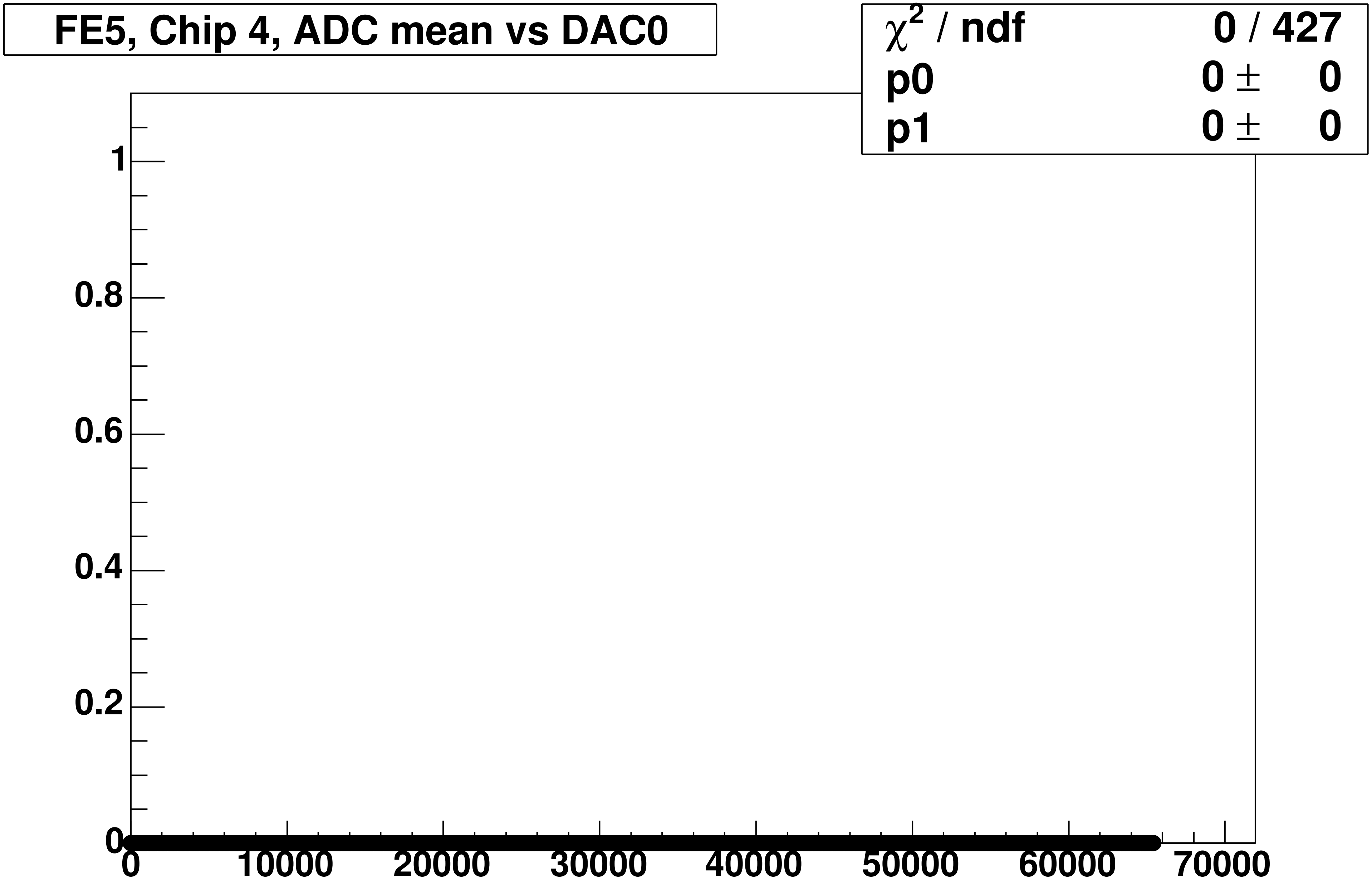

FE5, Chip 3, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE5, Chip 3, ADC residuals vs DAC0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

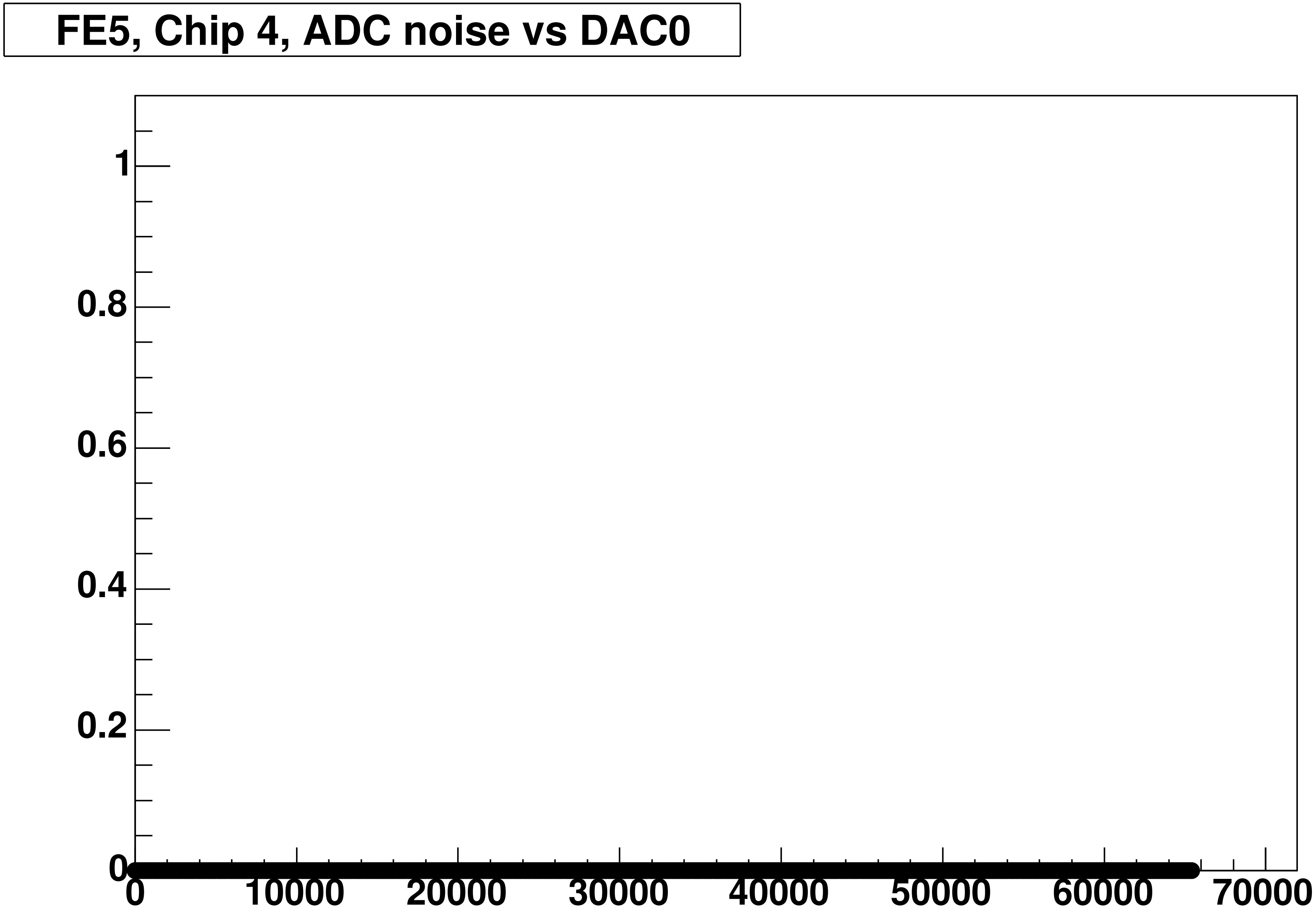

FE5, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

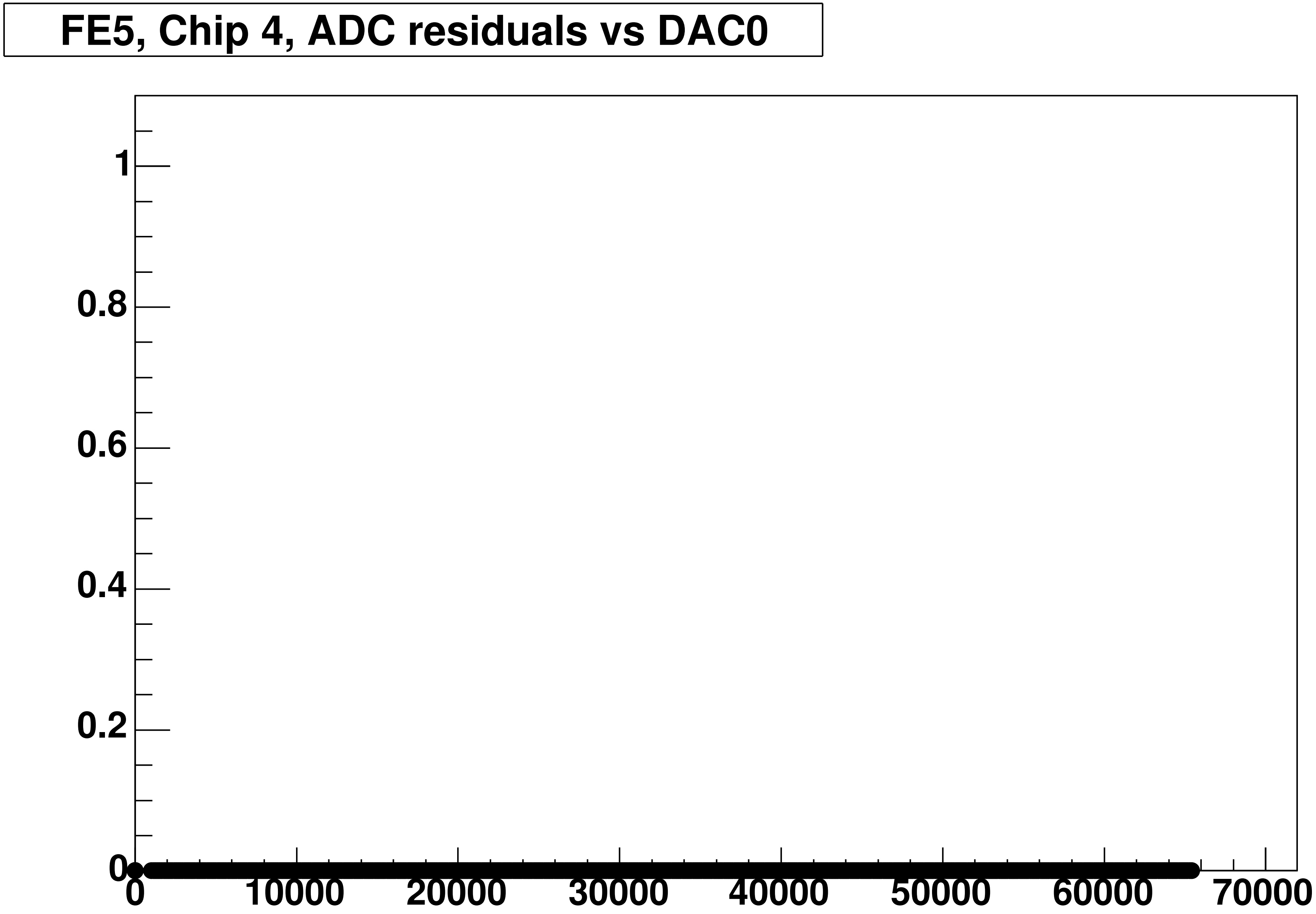

FE5, Chip 3, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE5, Chip 3, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

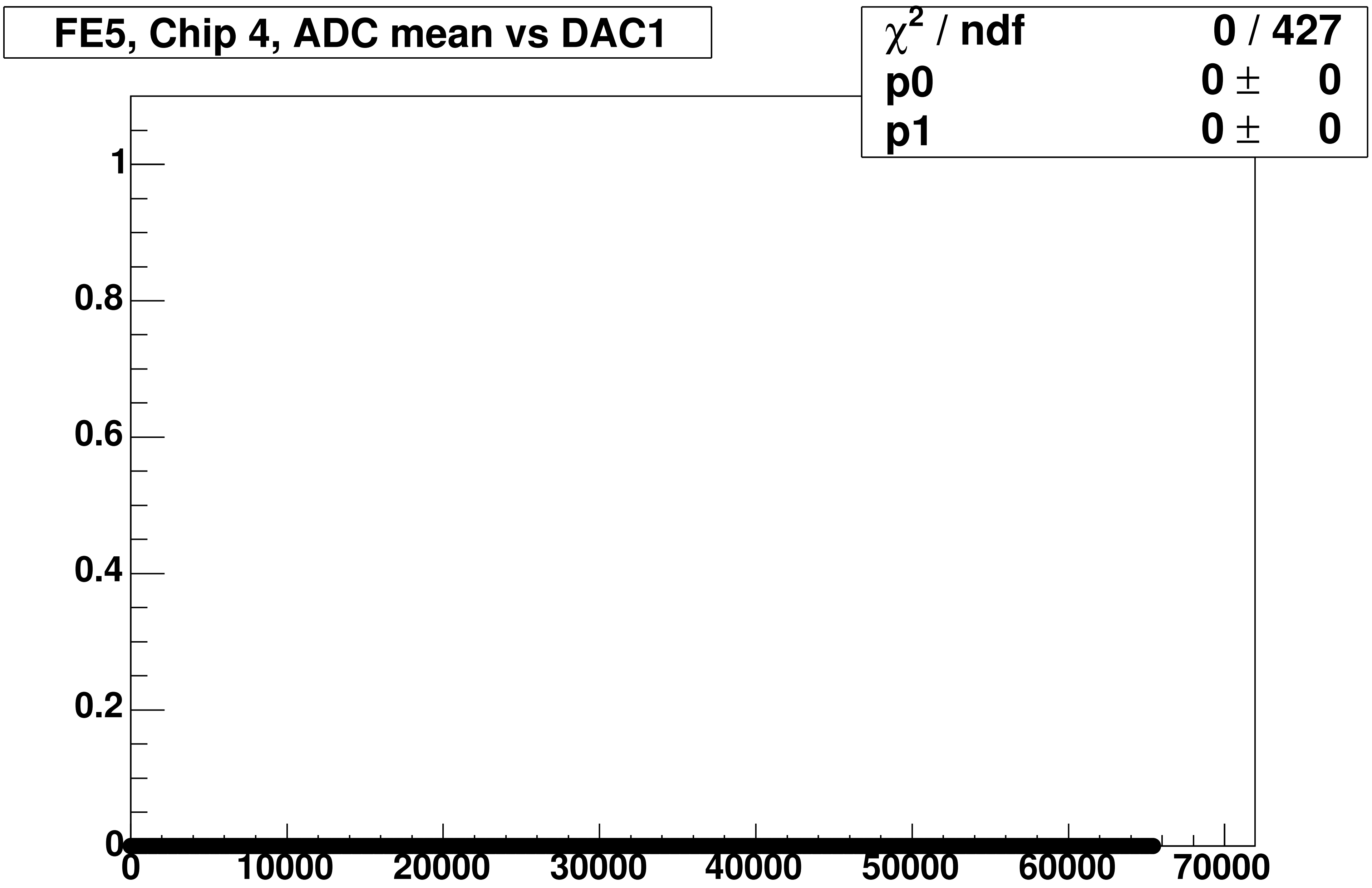


FE5, Chip 4, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

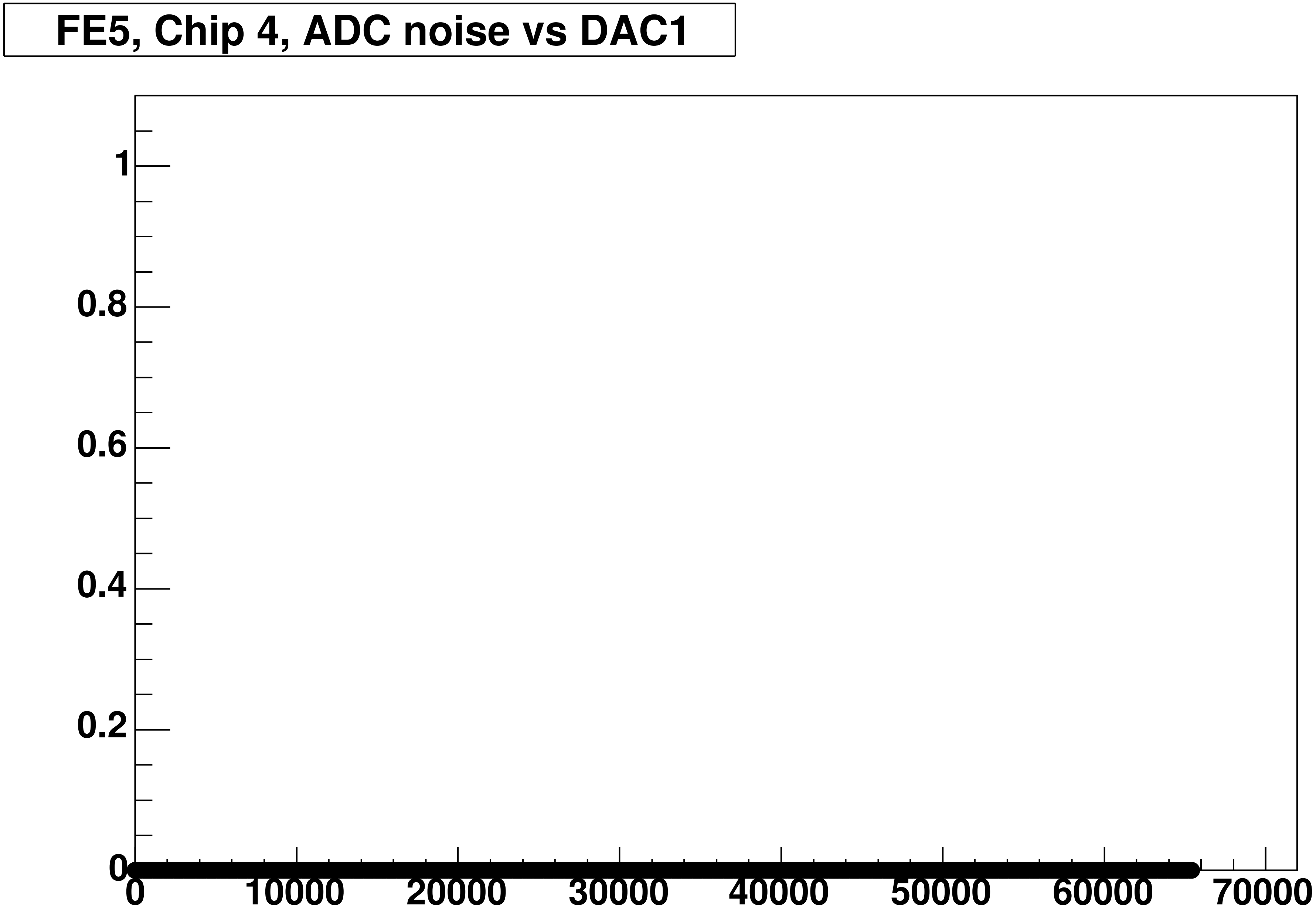

FE5, Chip 4, ADC noise vs DAC0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000



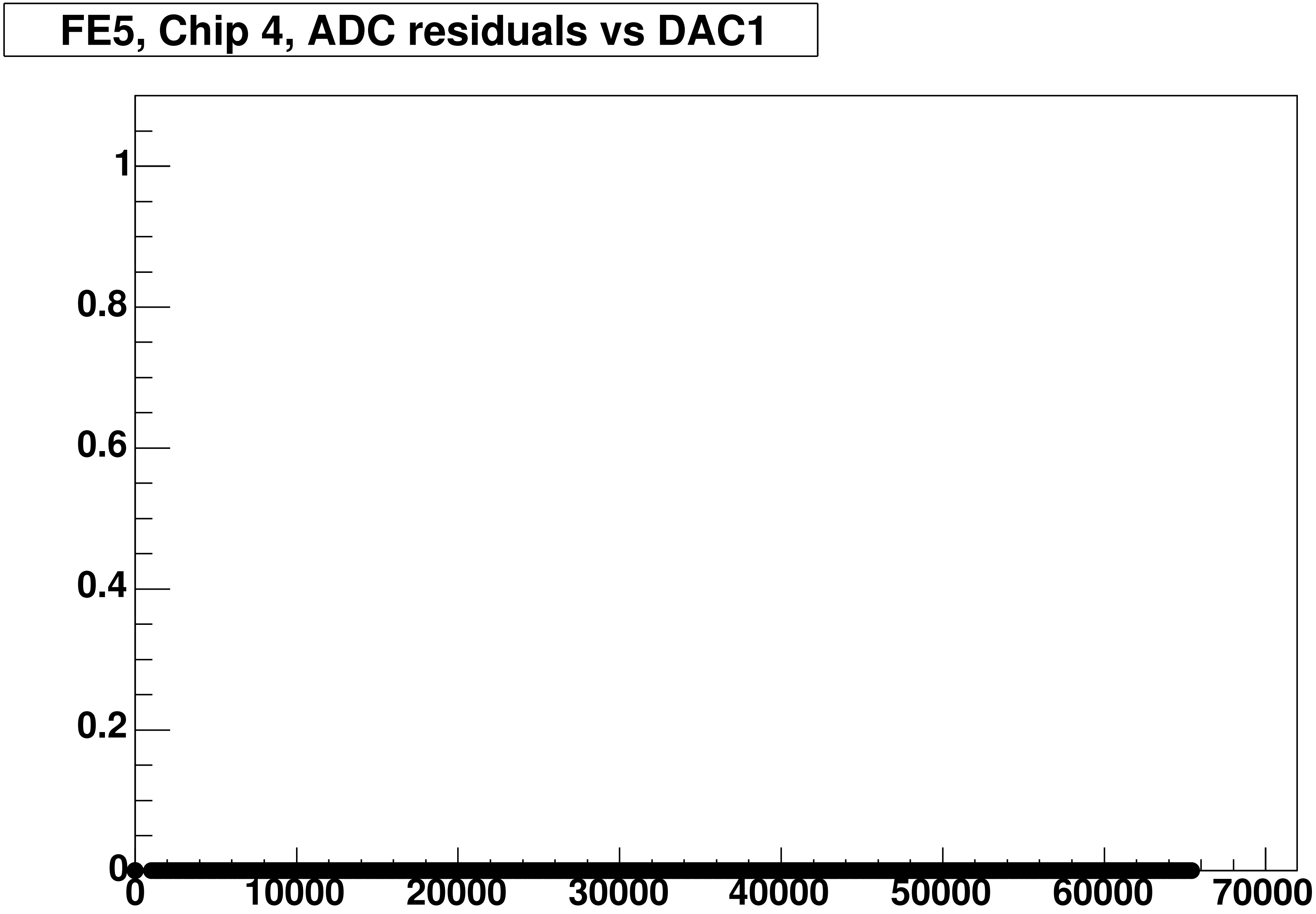
FE5, Chip 4, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



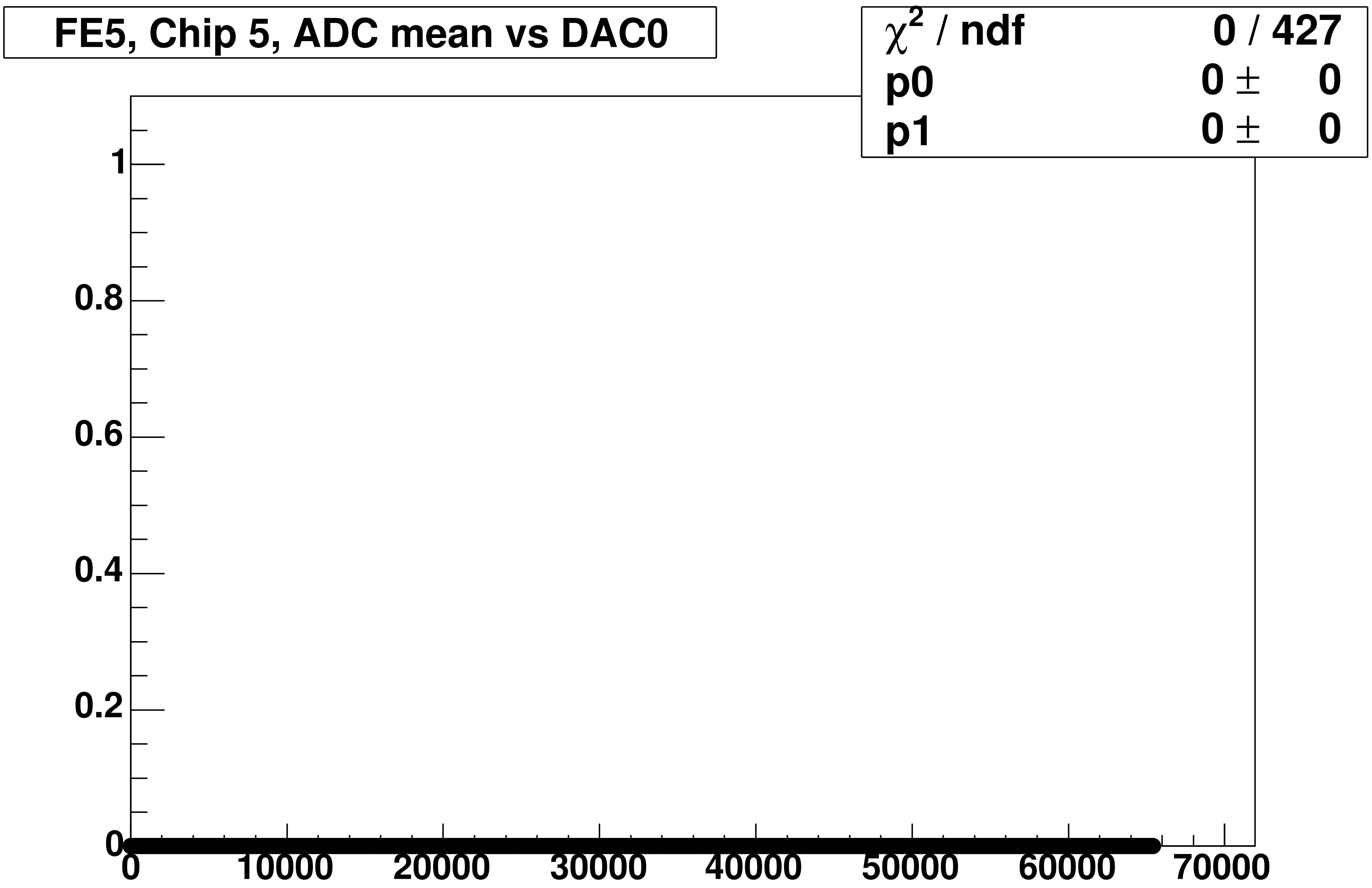
FE5, Chip 4, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



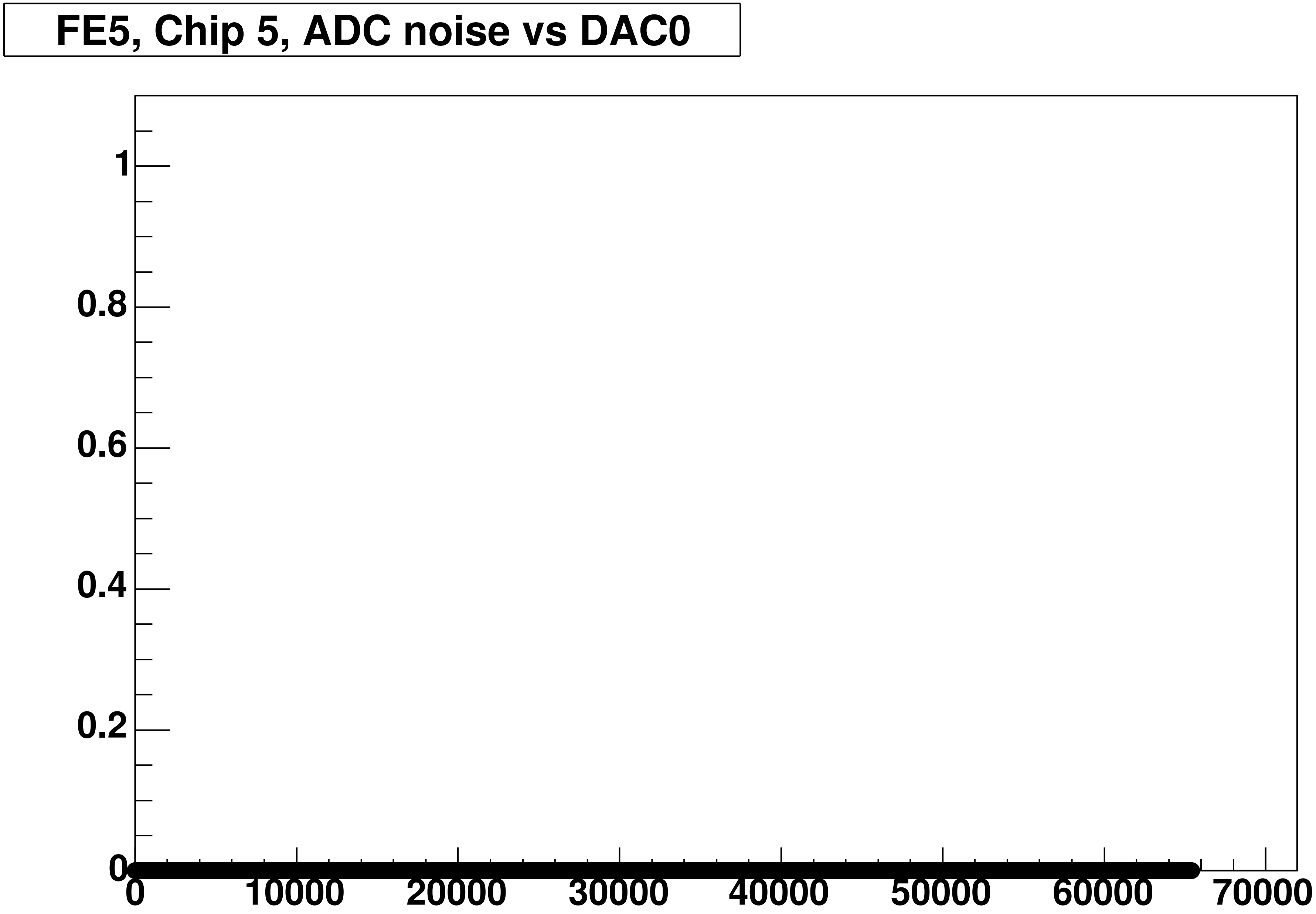
FE5, Chip 4, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

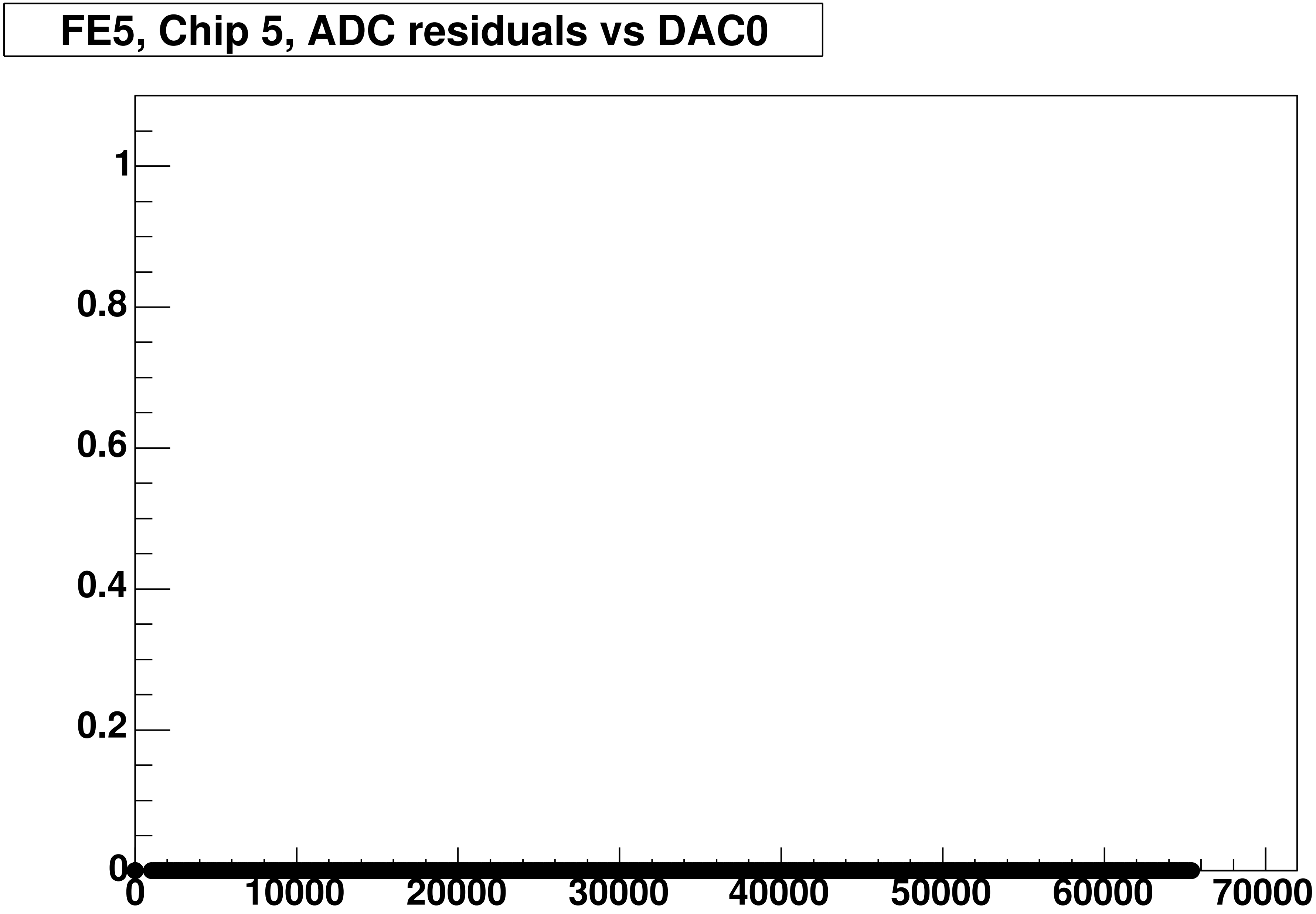


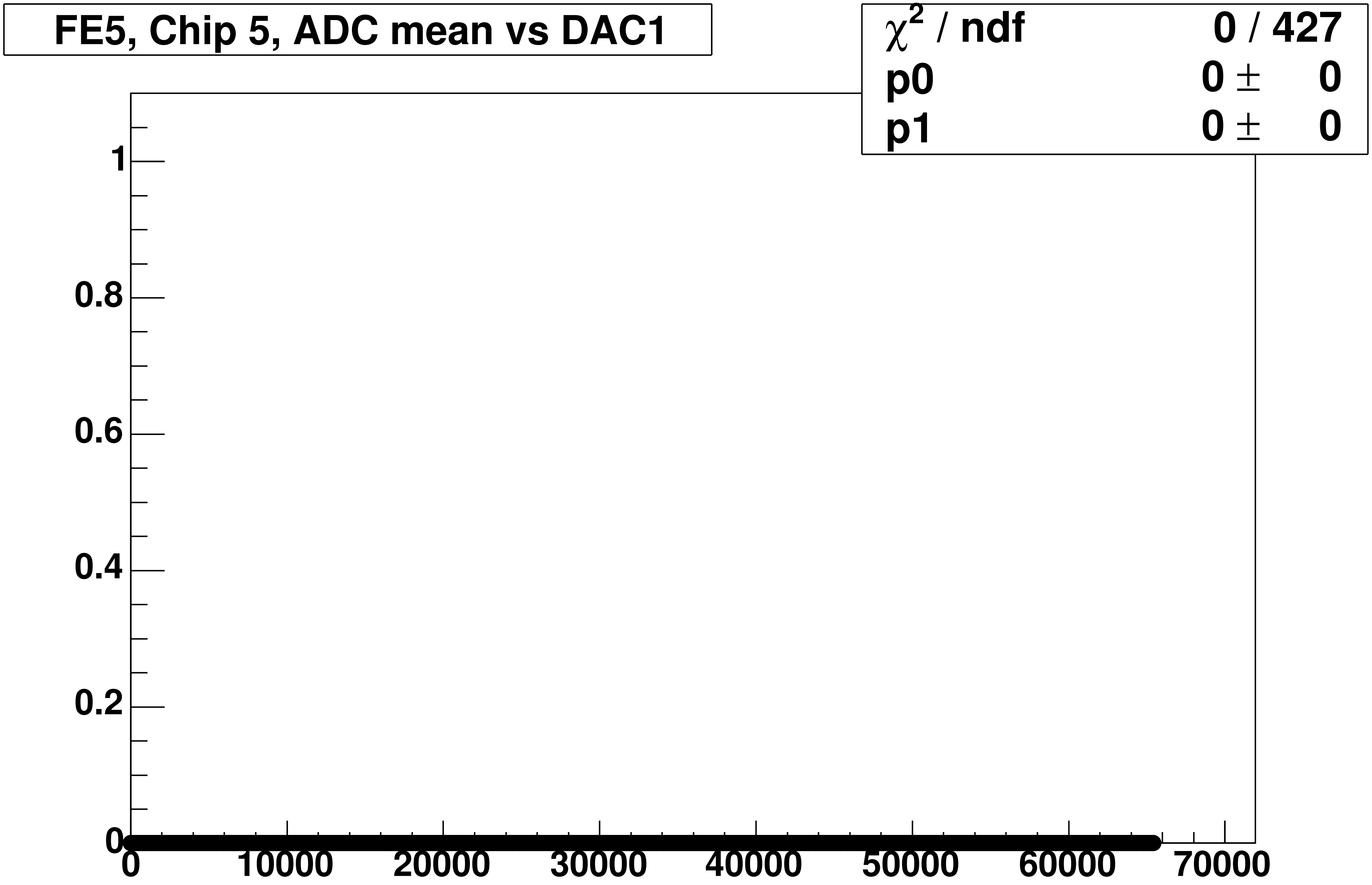
FE5, Chip 4, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

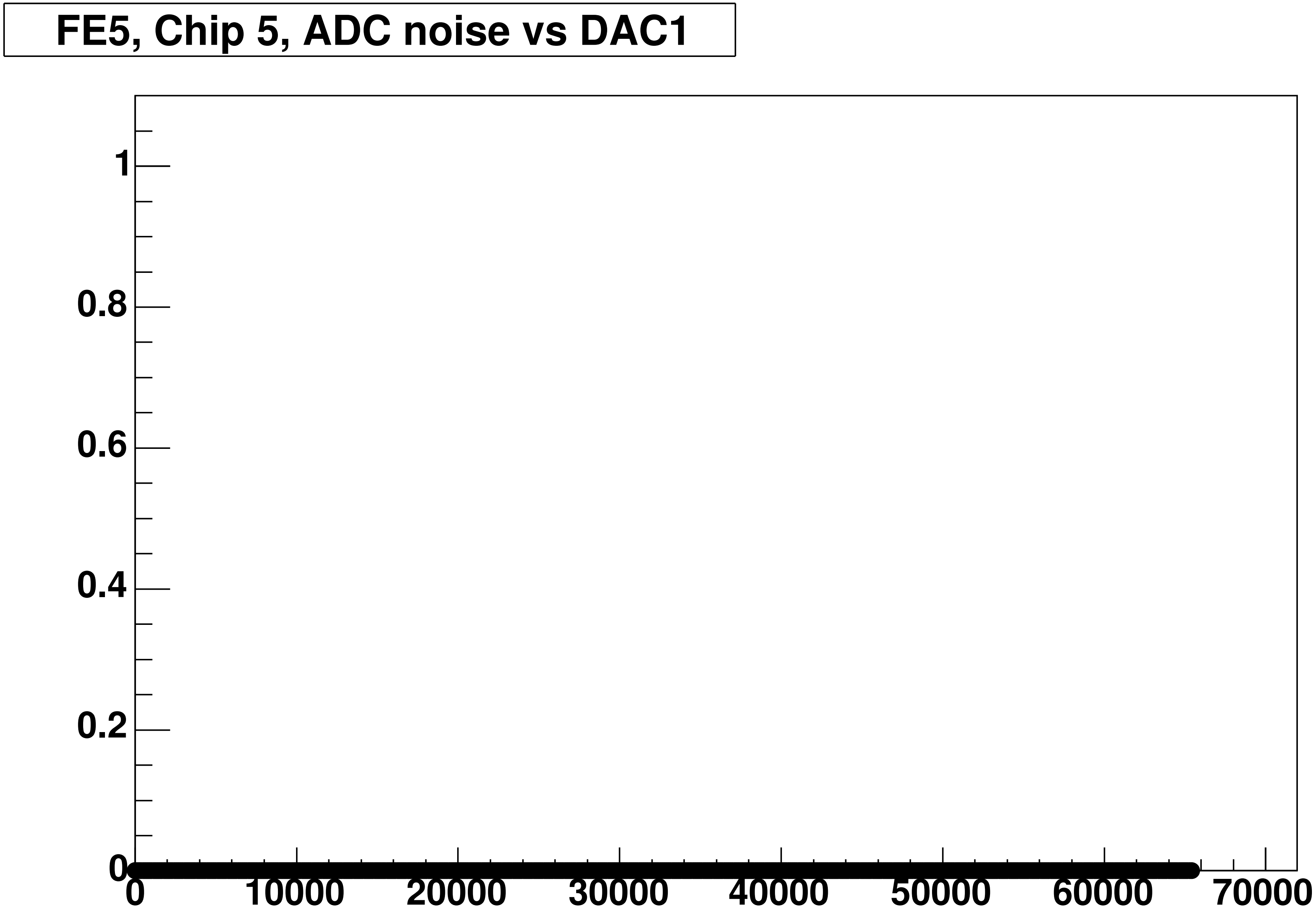


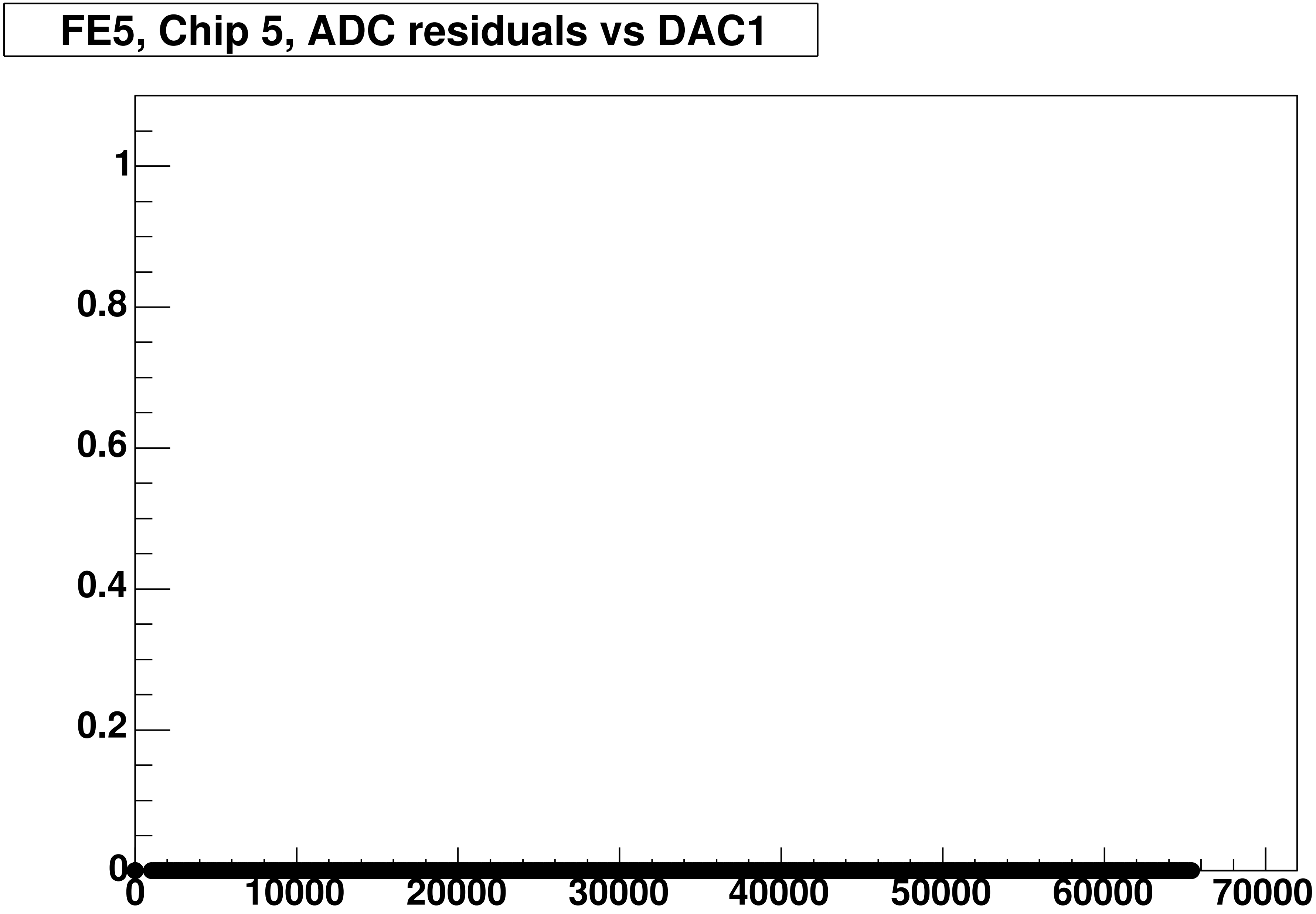
FE5, Chip 5, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

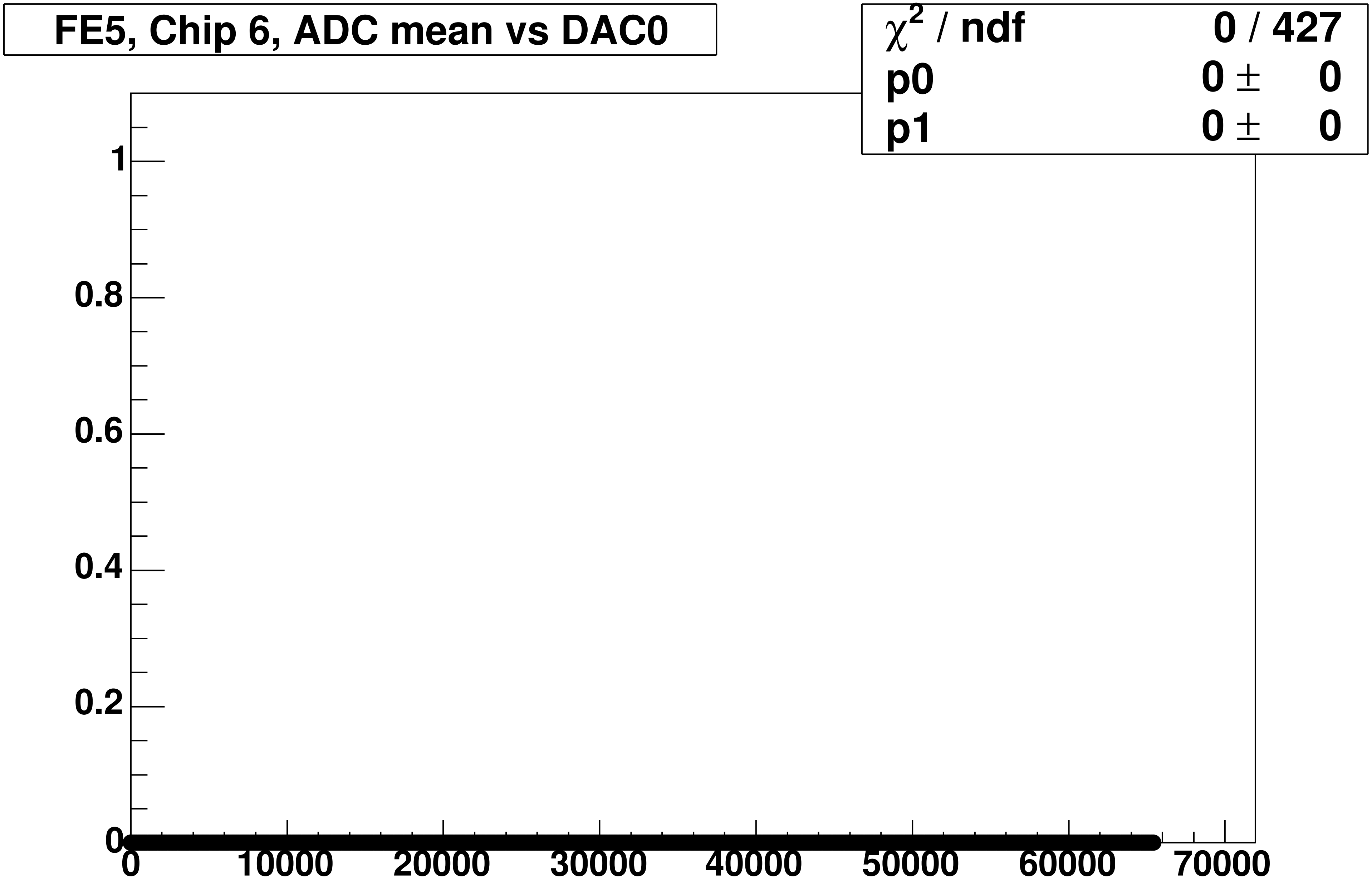

FE5, Chip 5, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

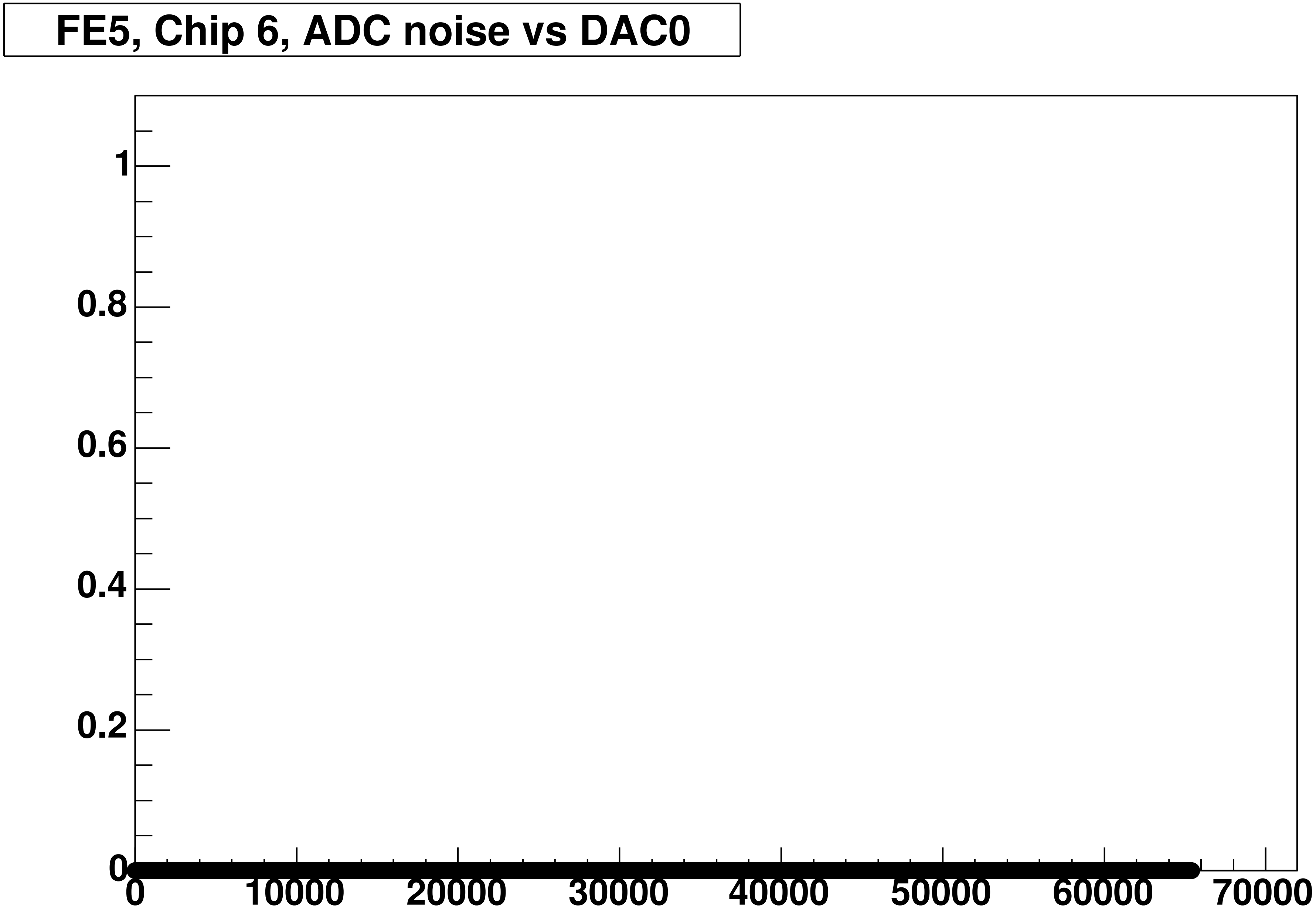

FE5, Chip 5, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

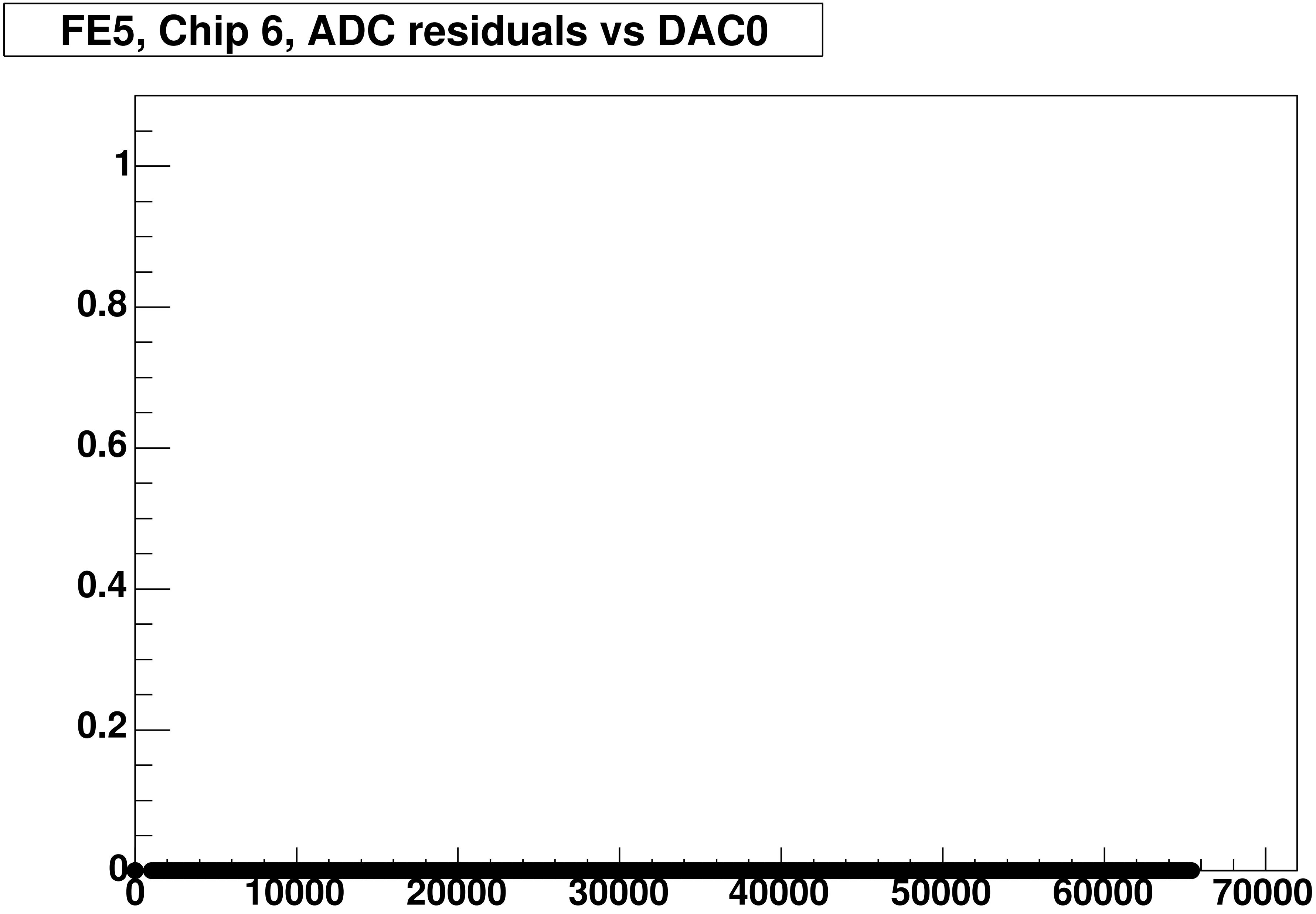

FE5, Chip 5, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

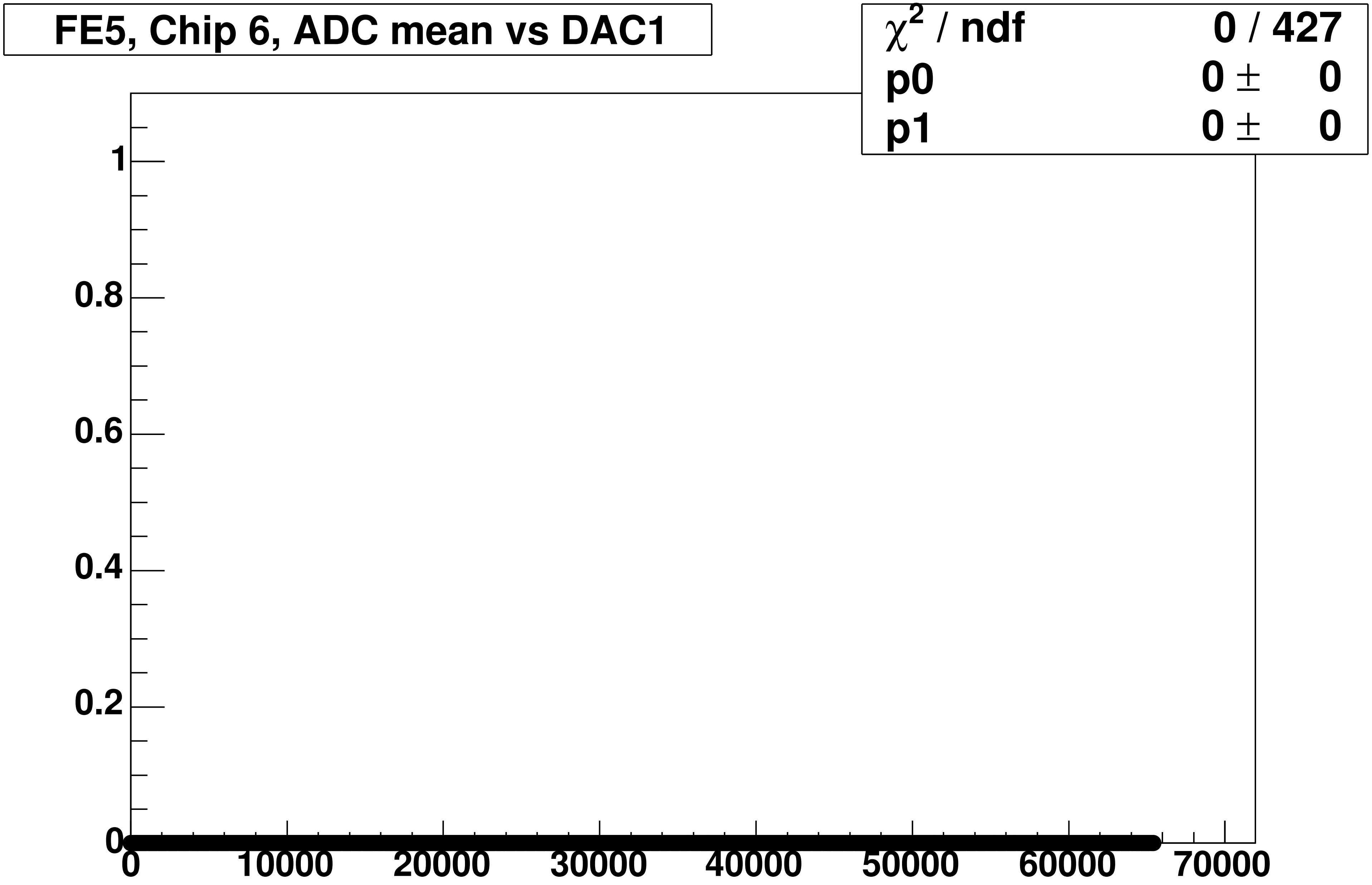

FE5, Chip 5, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

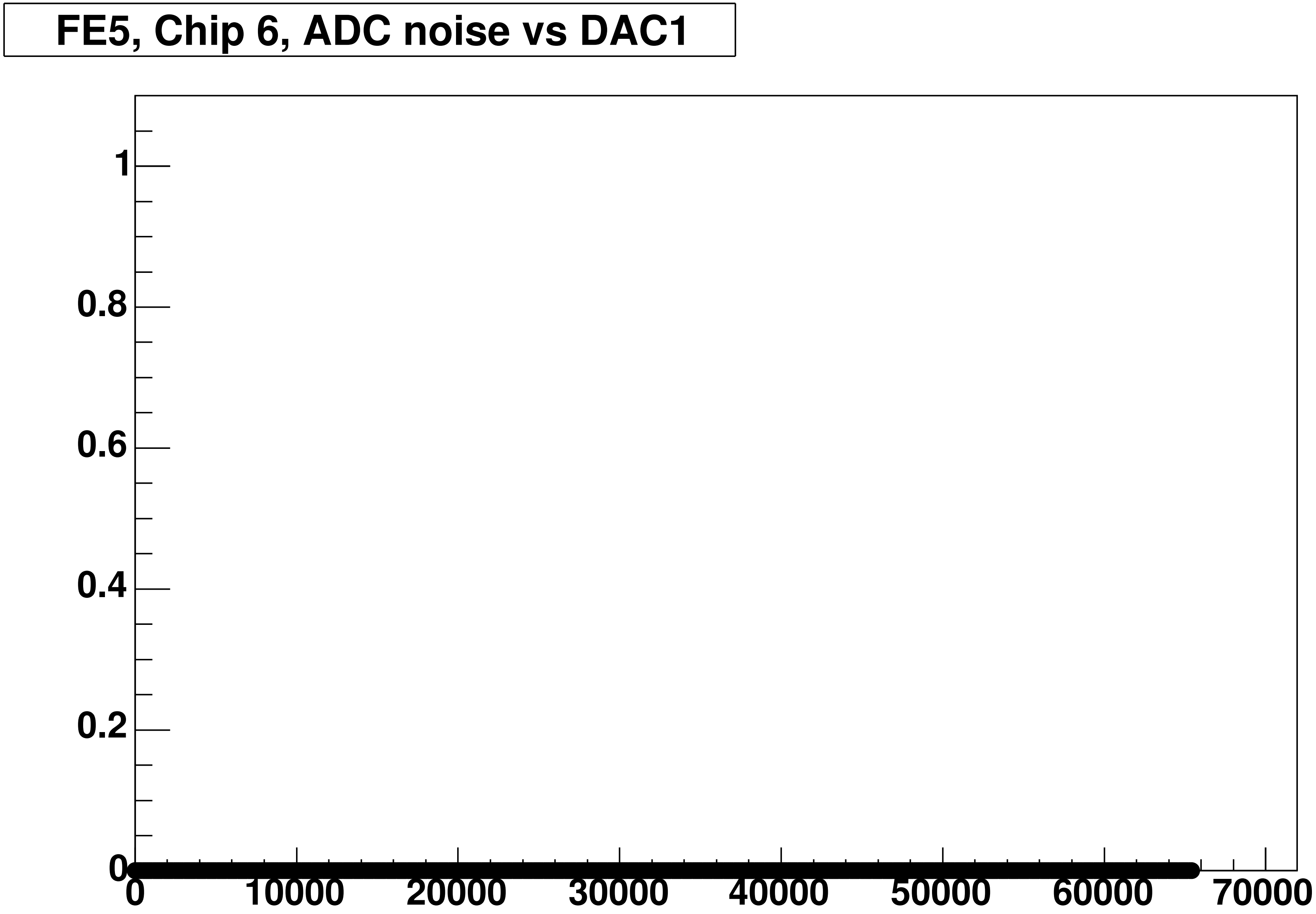

FE5, Chip 5, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

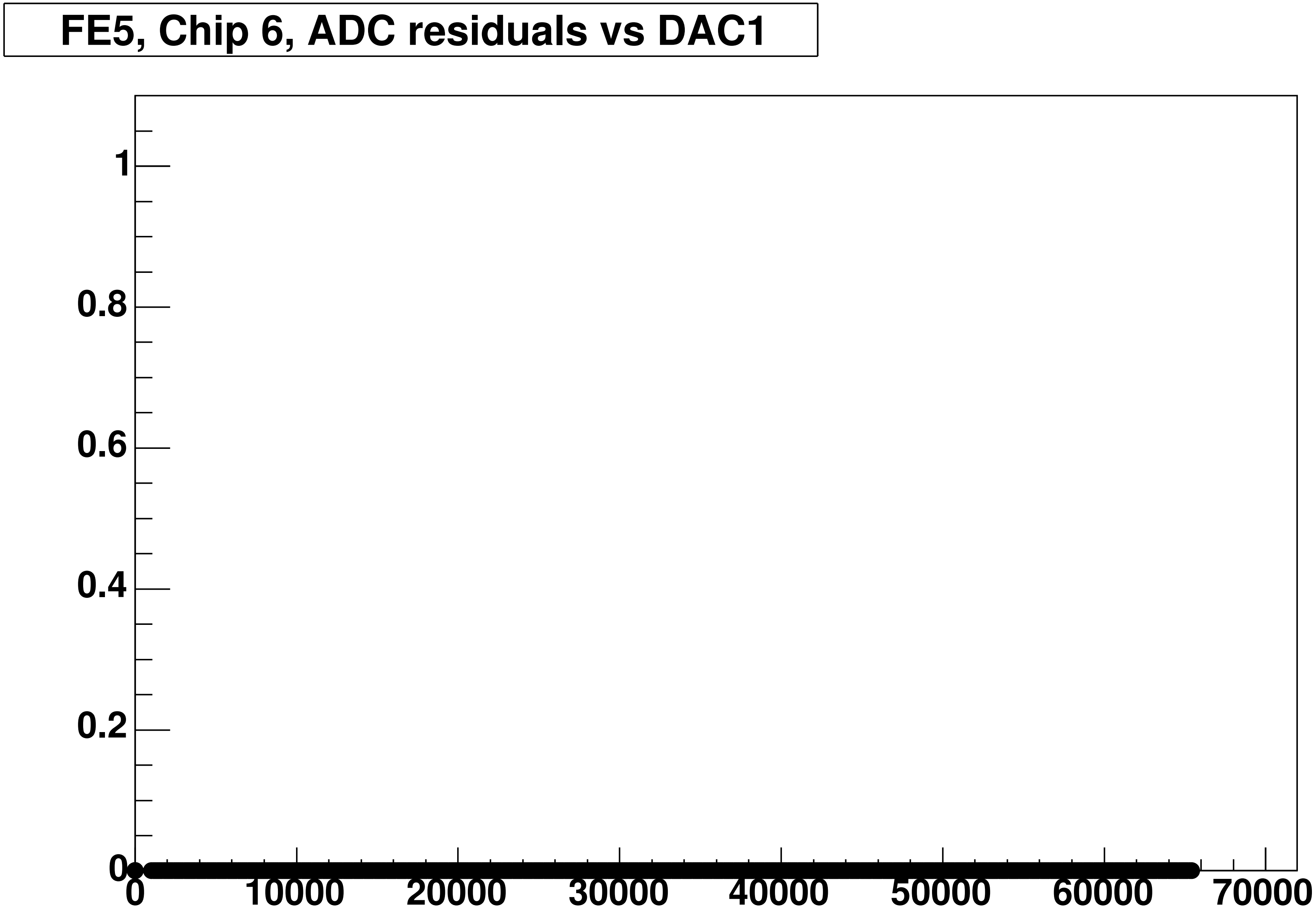

FE5, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

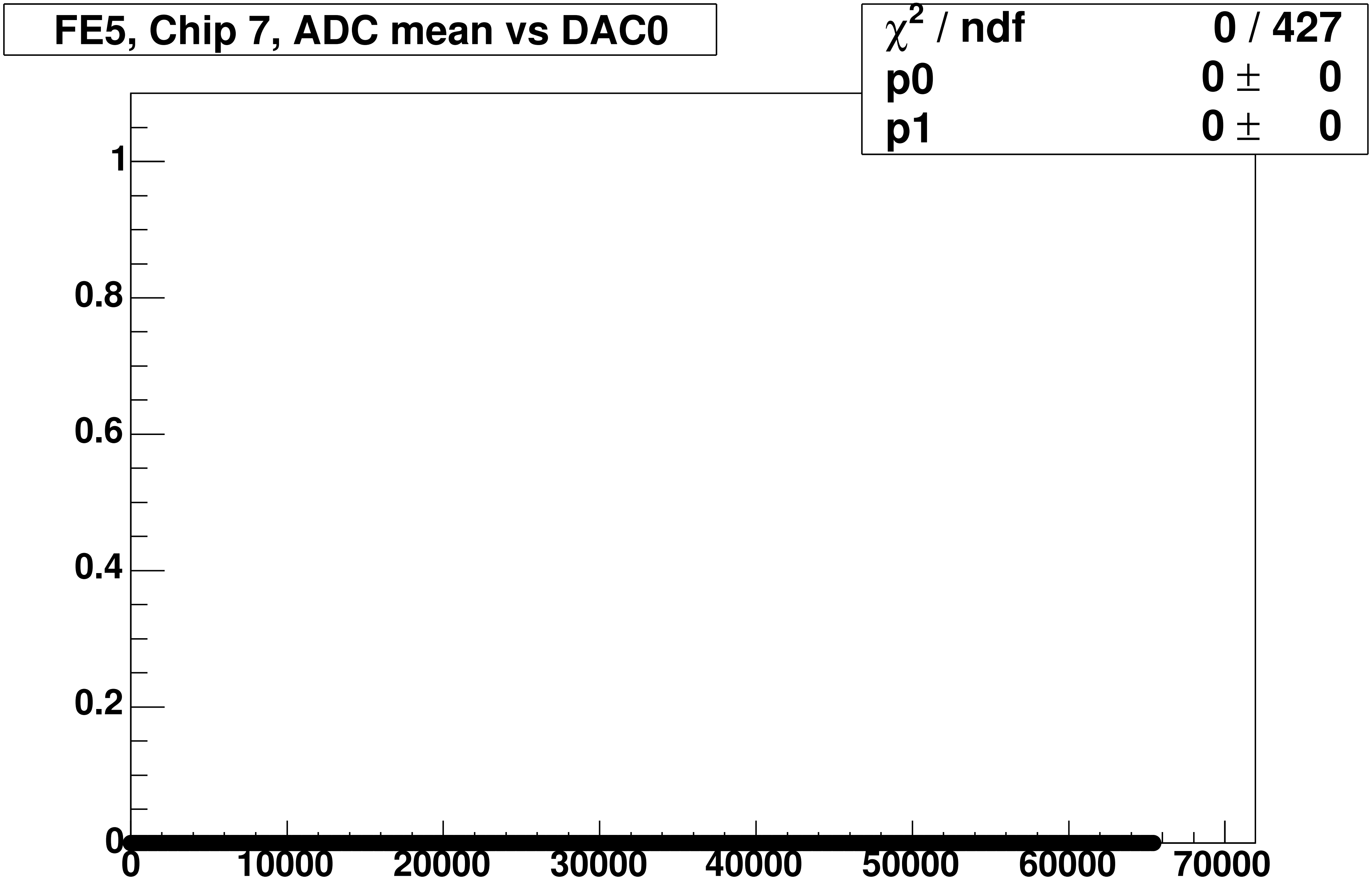

FE5, Chip 6, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE5, Chip 6, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

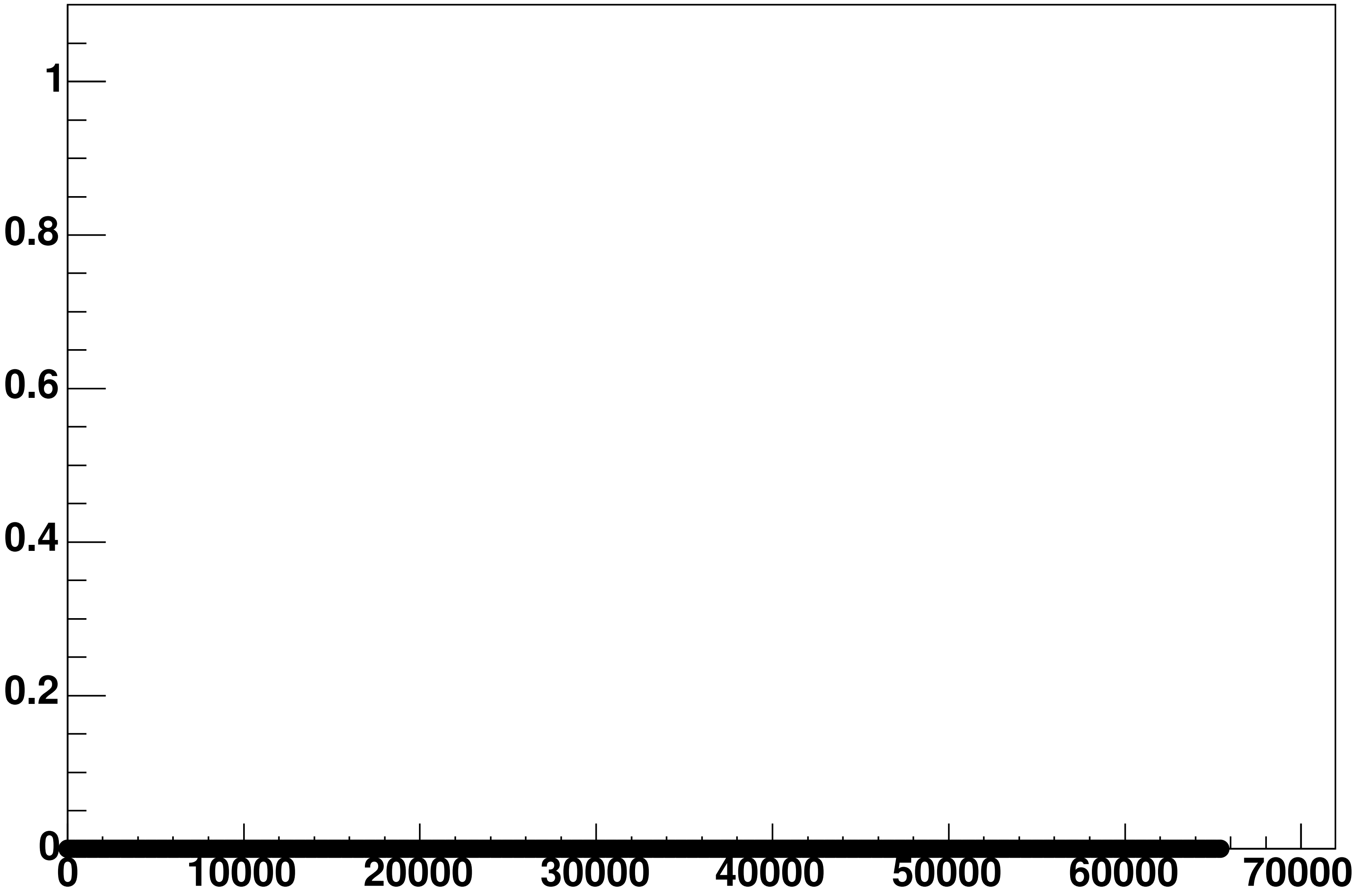

FE5, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

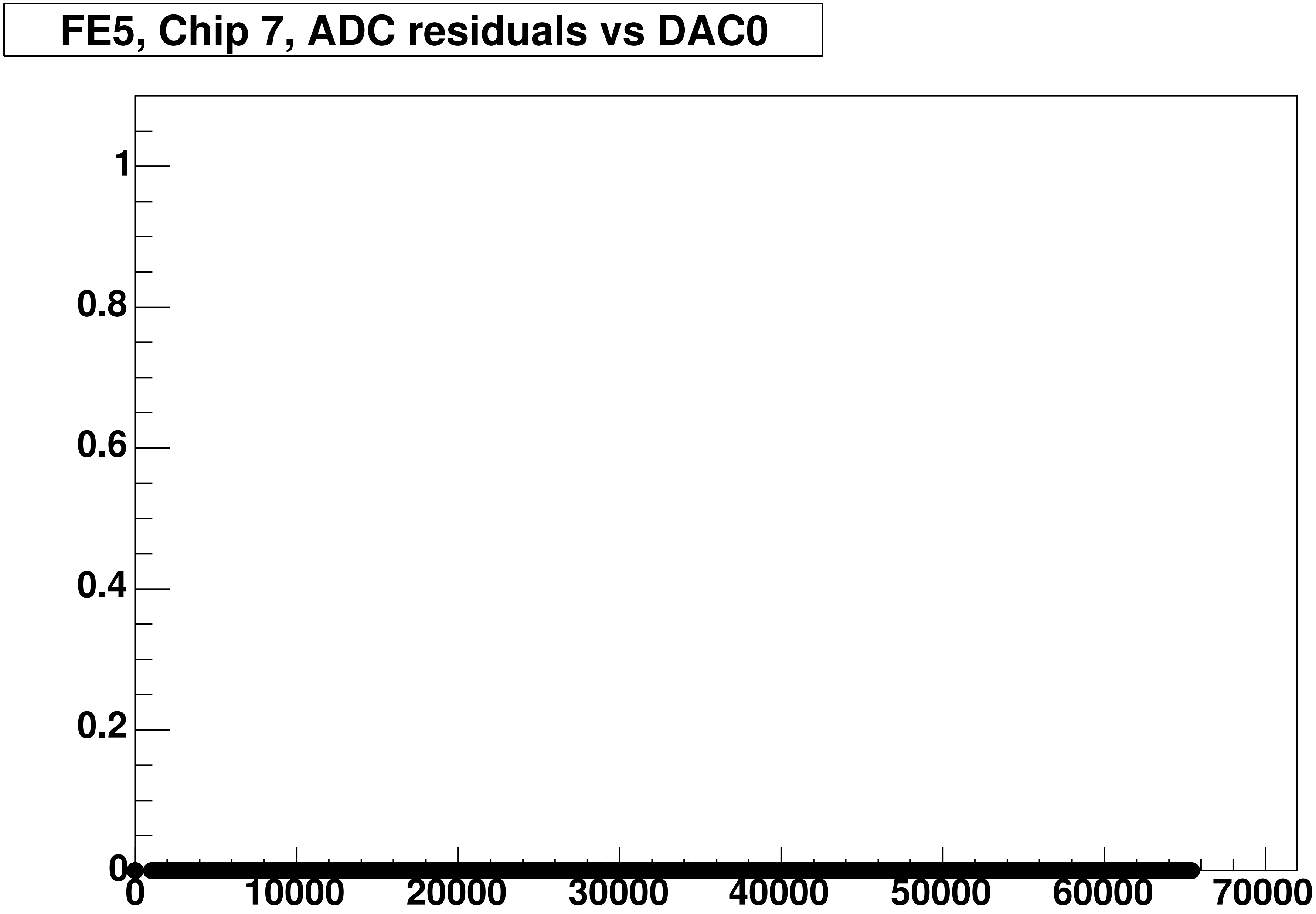

FE5, Chip 6, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE5, Chip 6, ADC residuals vs DAC1
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

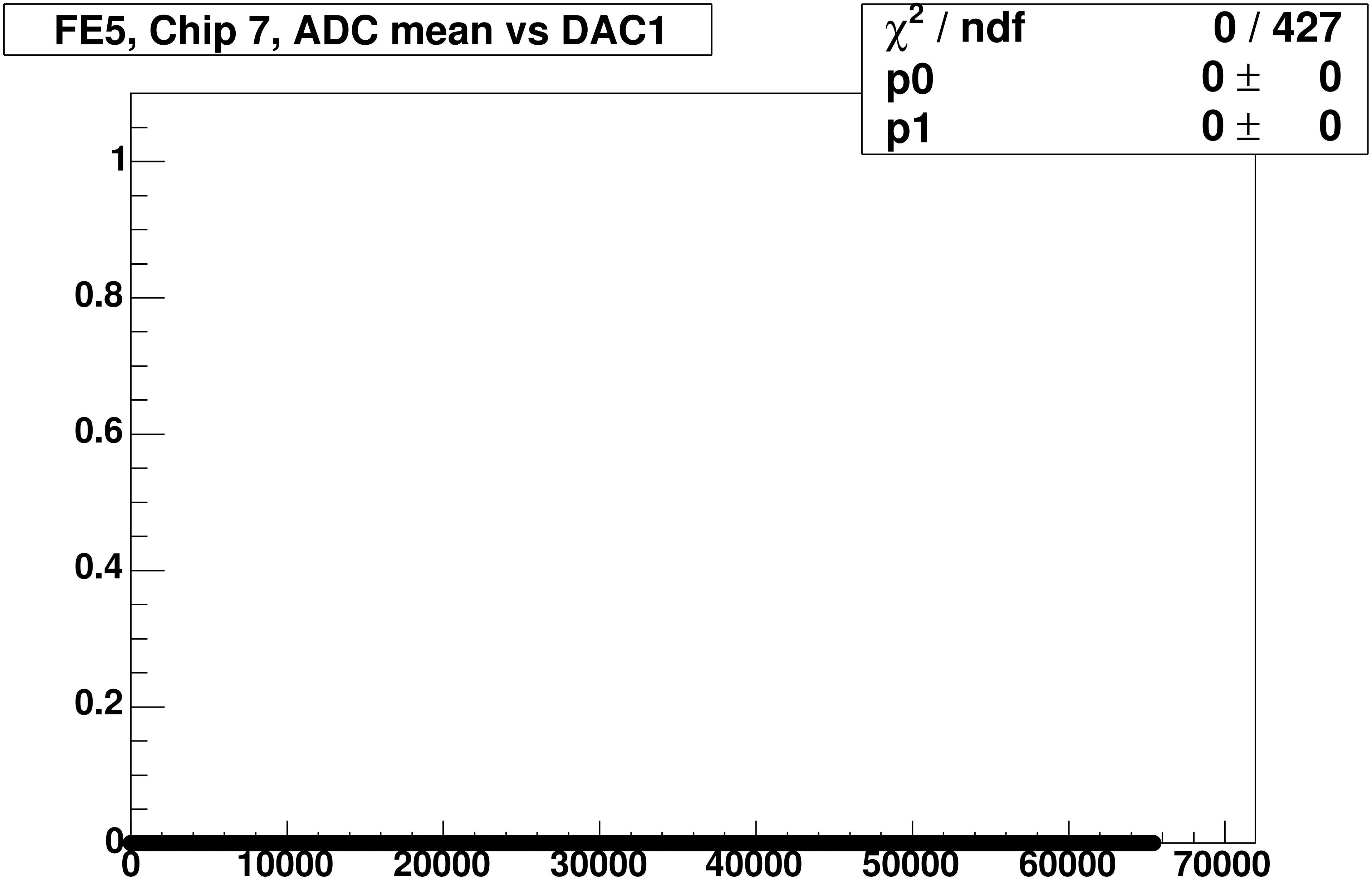

FE5, Chip 7, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

FE5, Chip 7, ADC noise vs DAC0

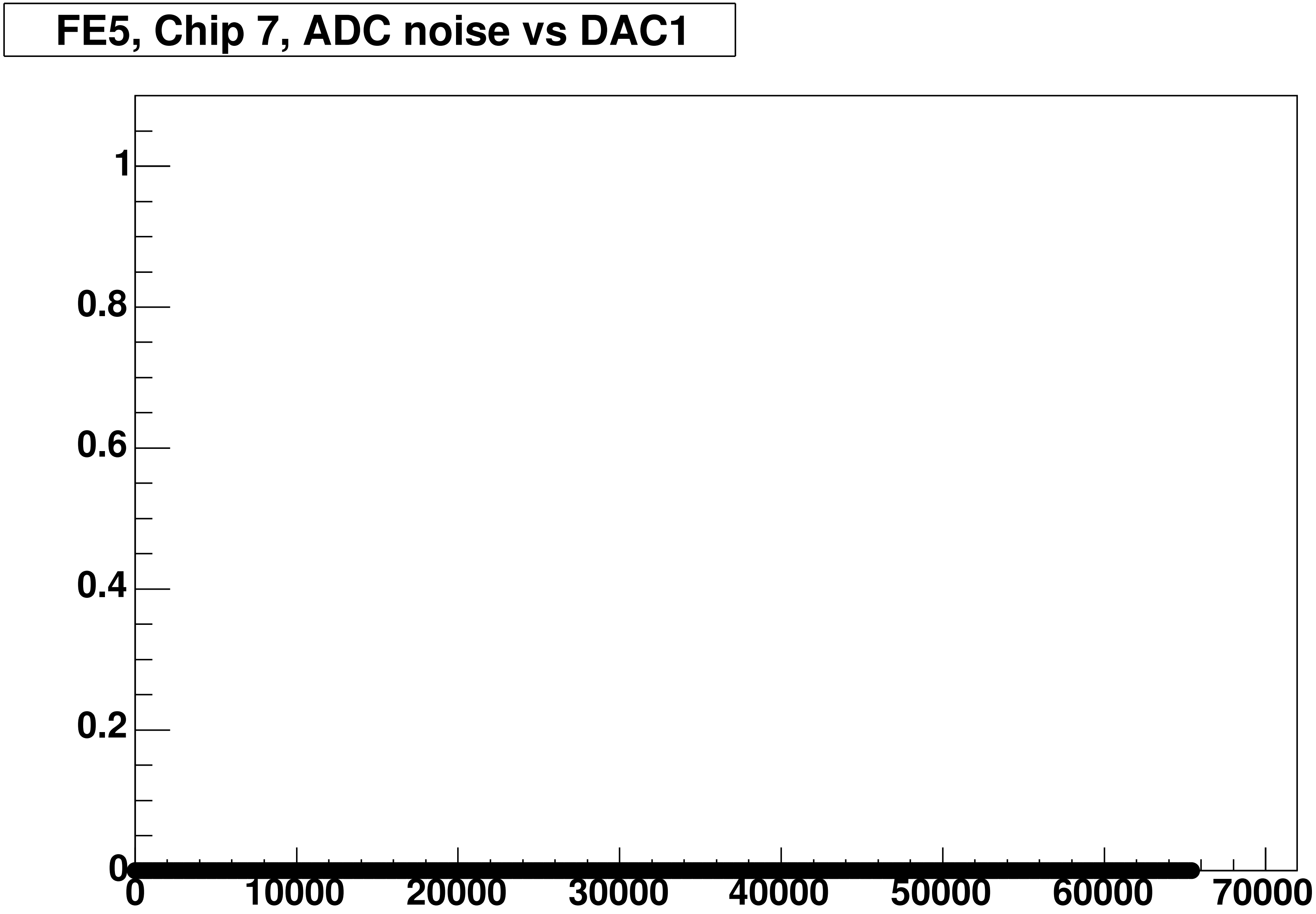




FE5, Chip 7, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

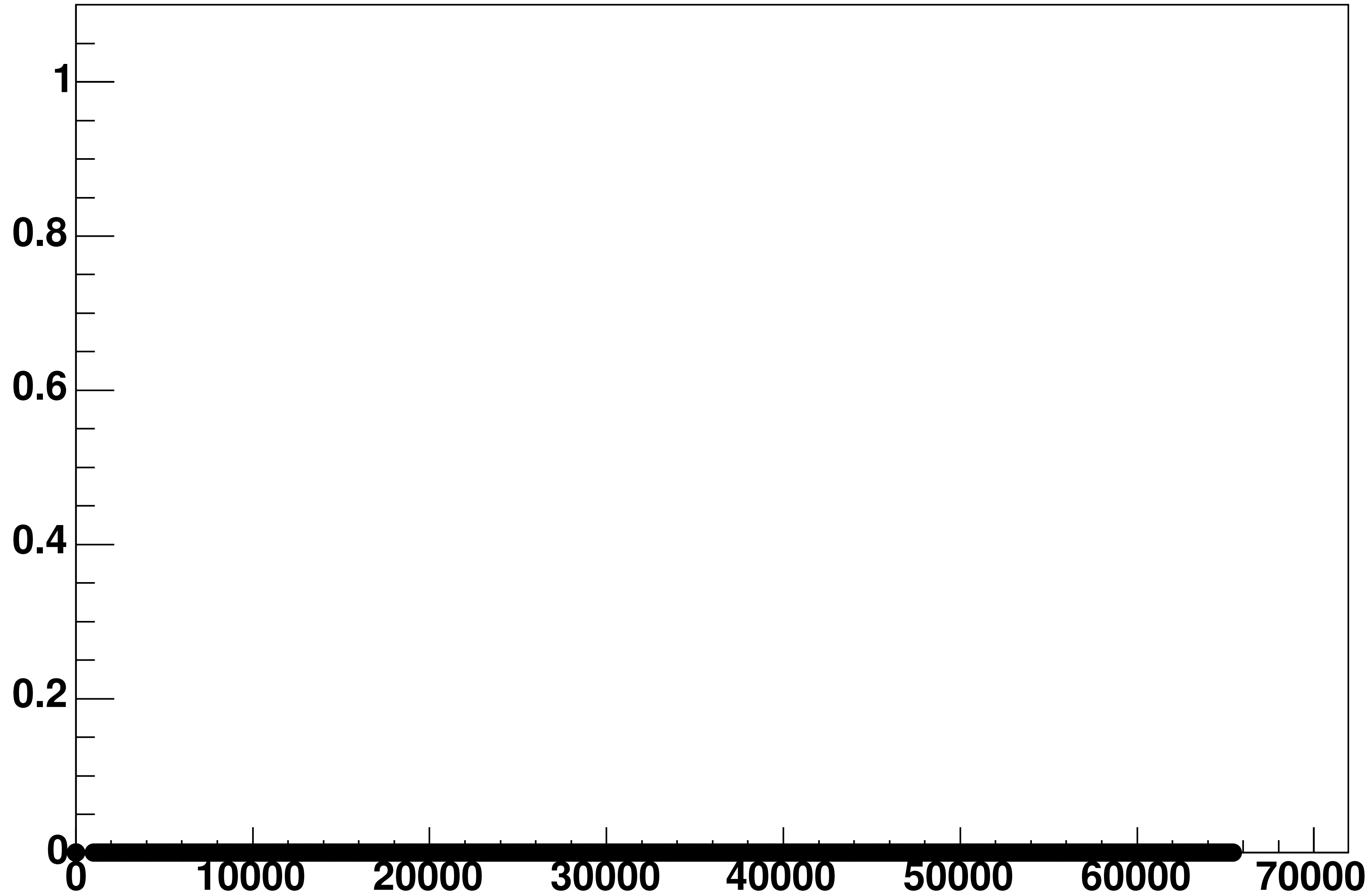


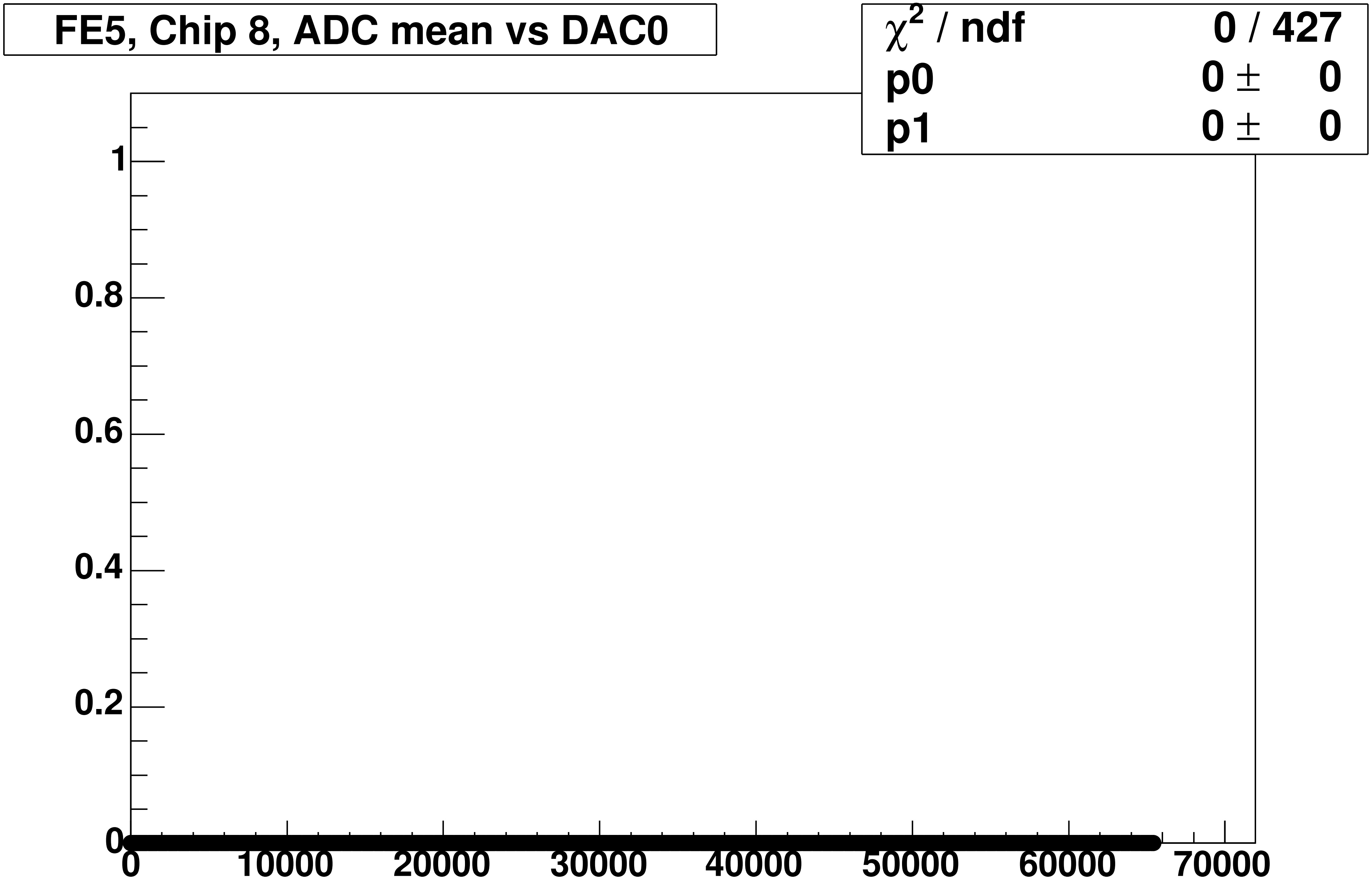
FE5, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



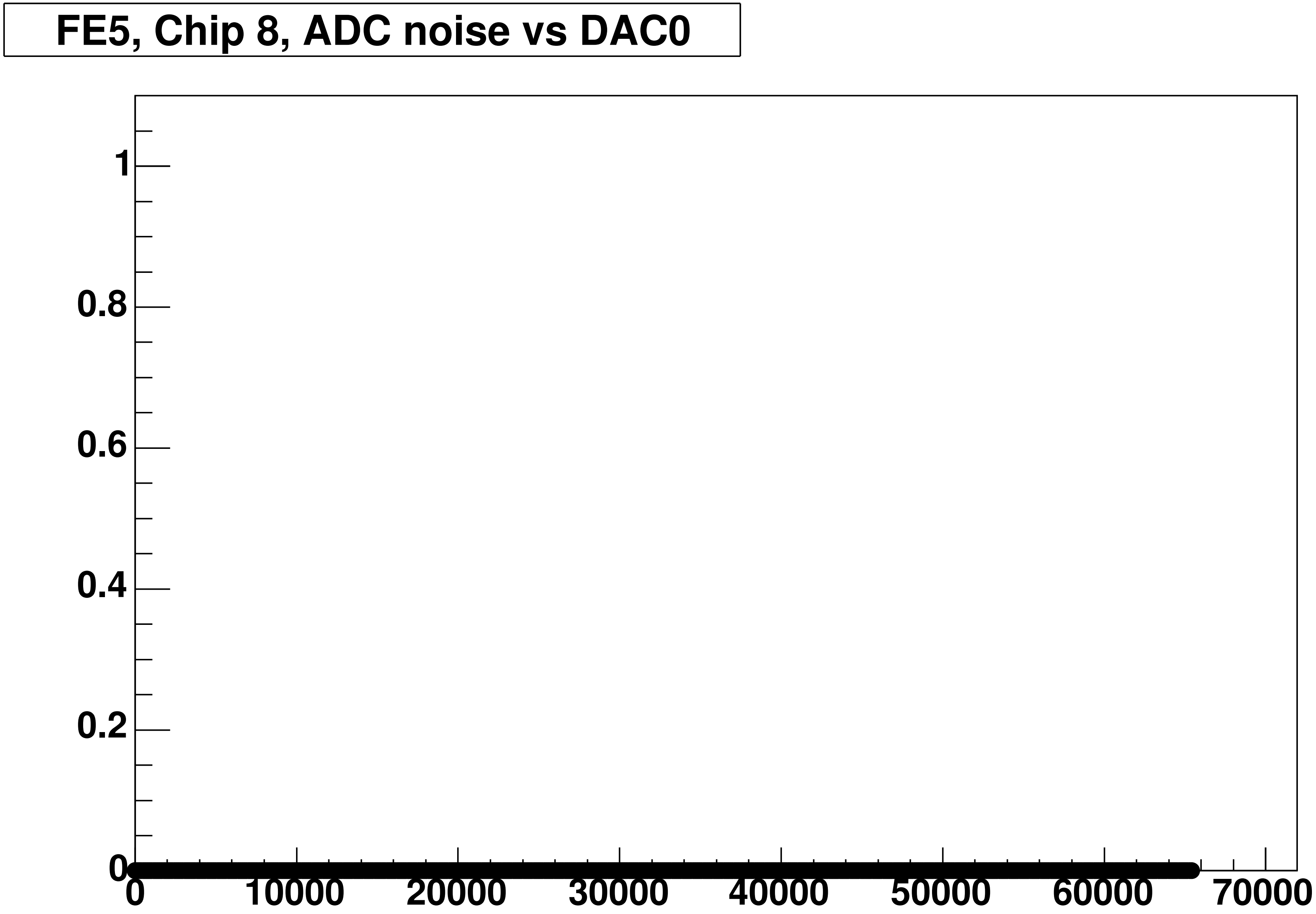
FE5, Chip 7, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

FE5, Chip 7, ADC residuals vs DAC1

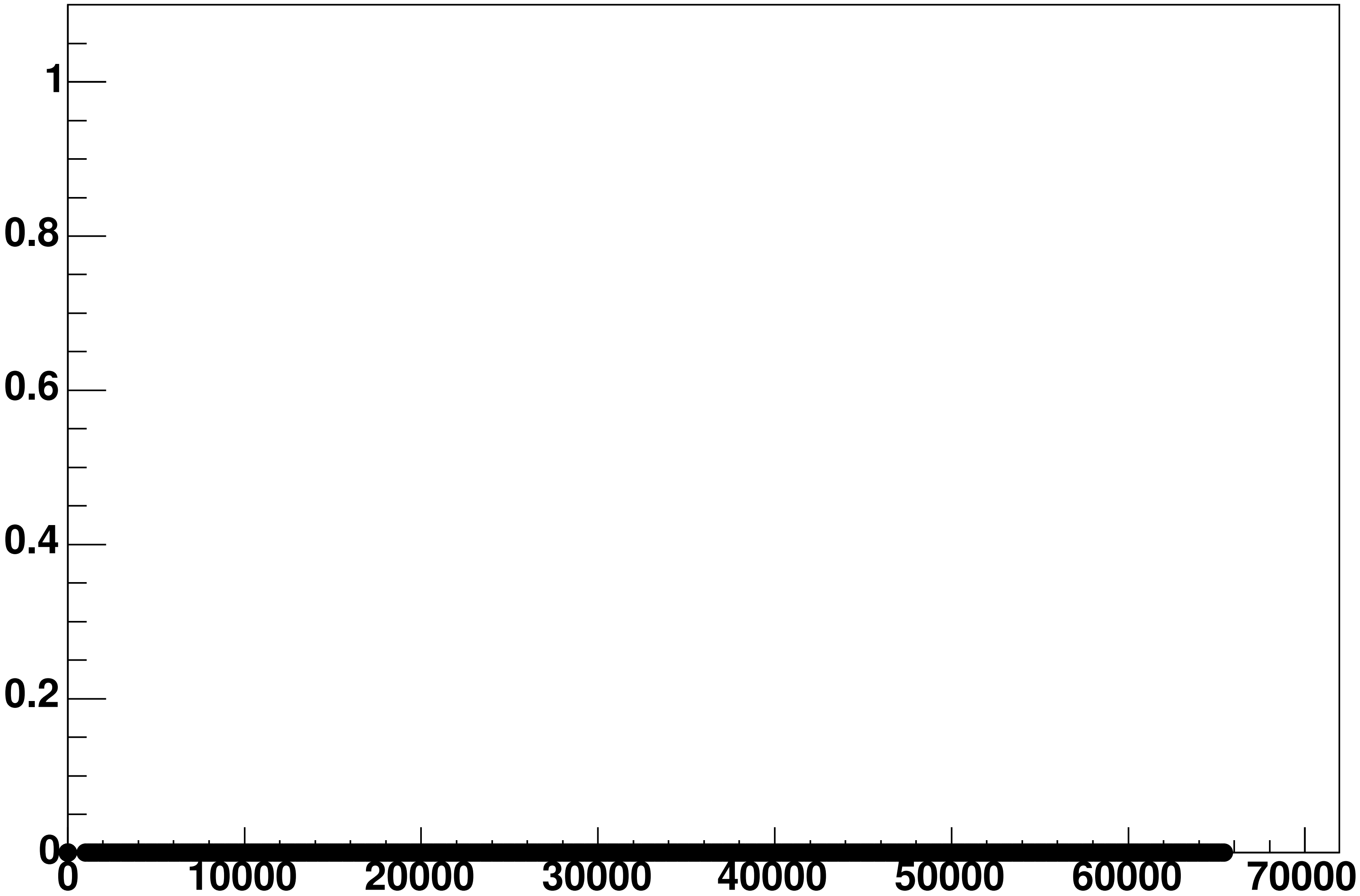


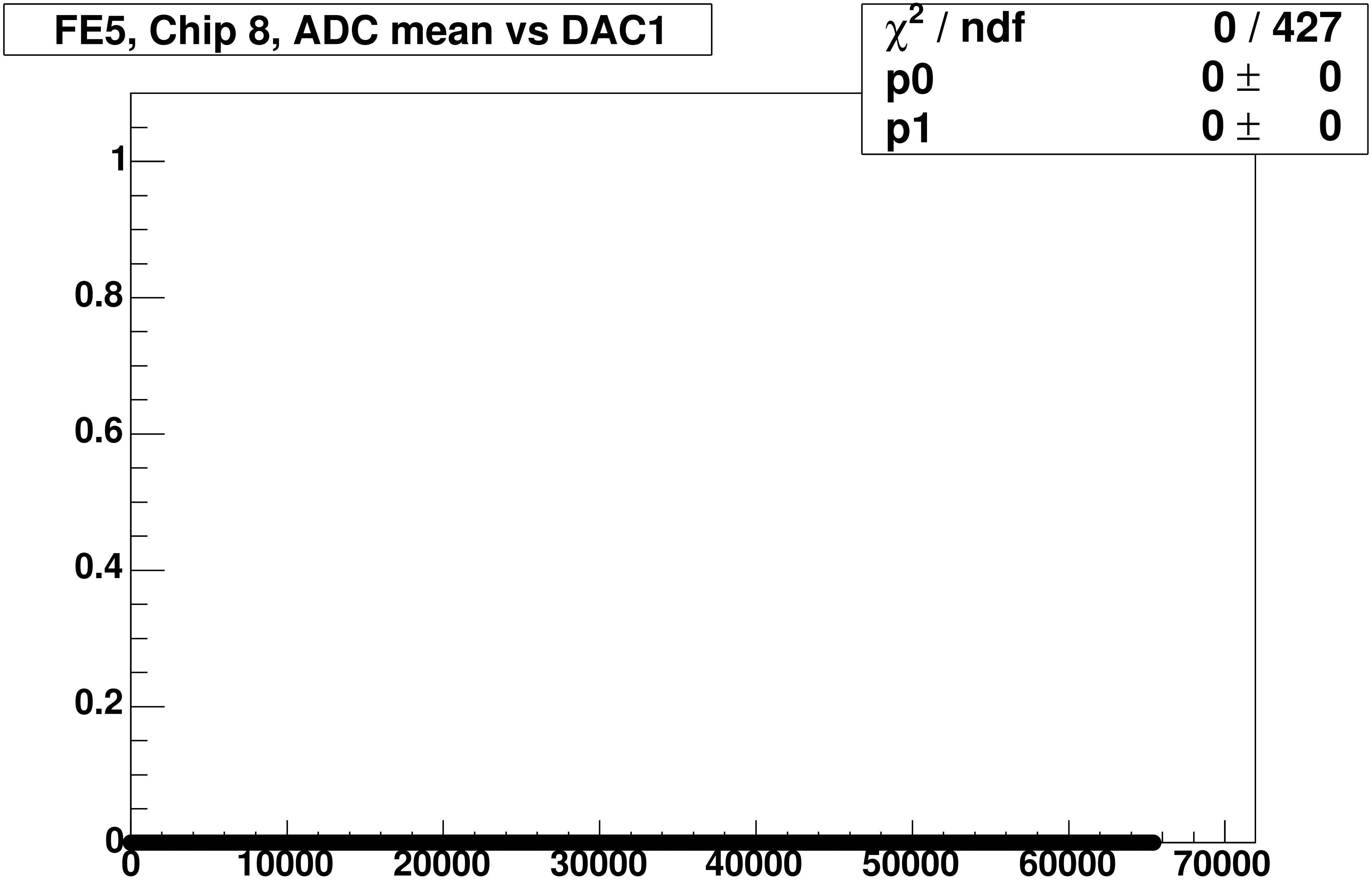


FE5, Chip 8, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

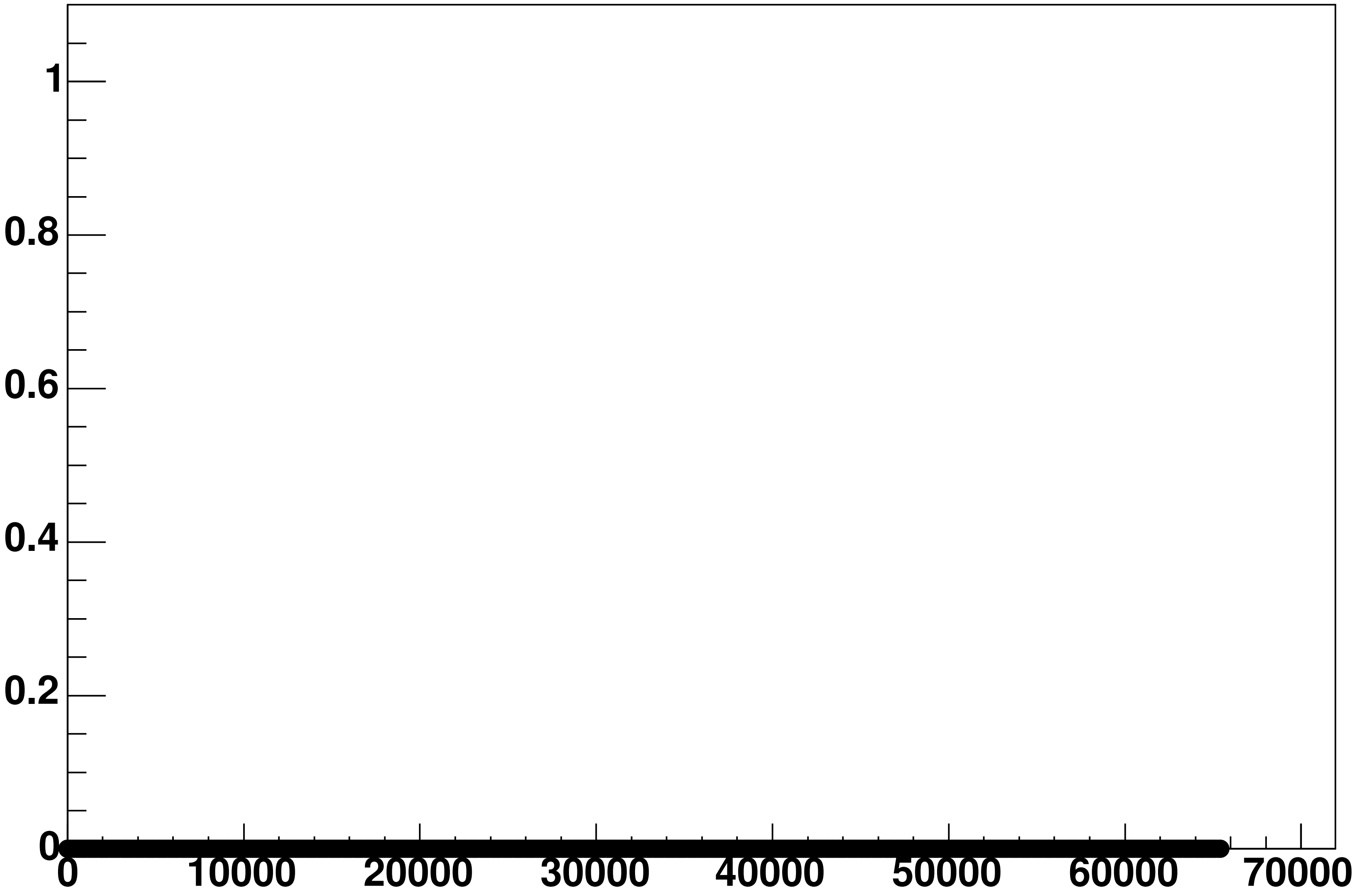

FE5, Chip 8, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

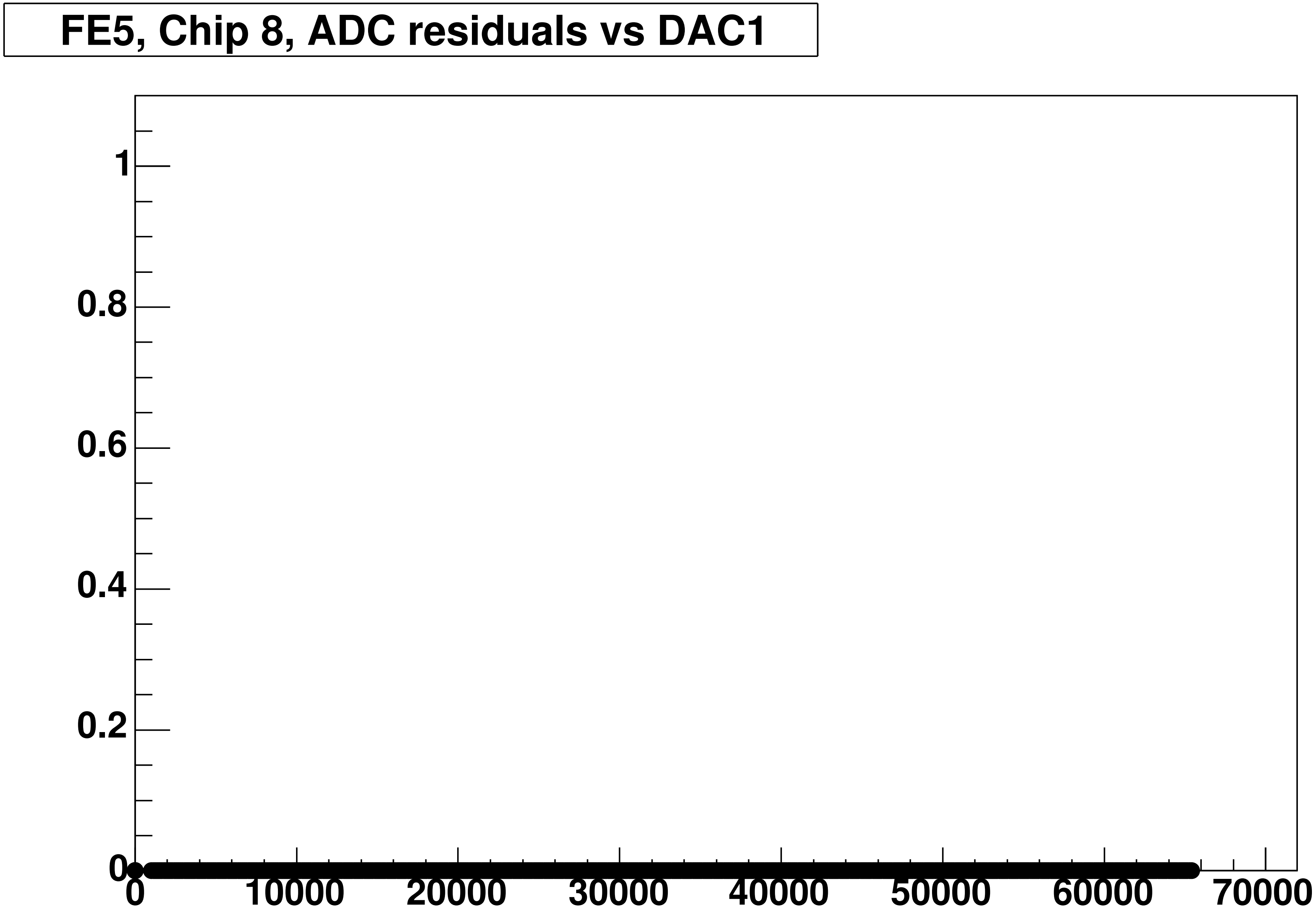
FE5, Chip 8, ADC residuals vs DAC0

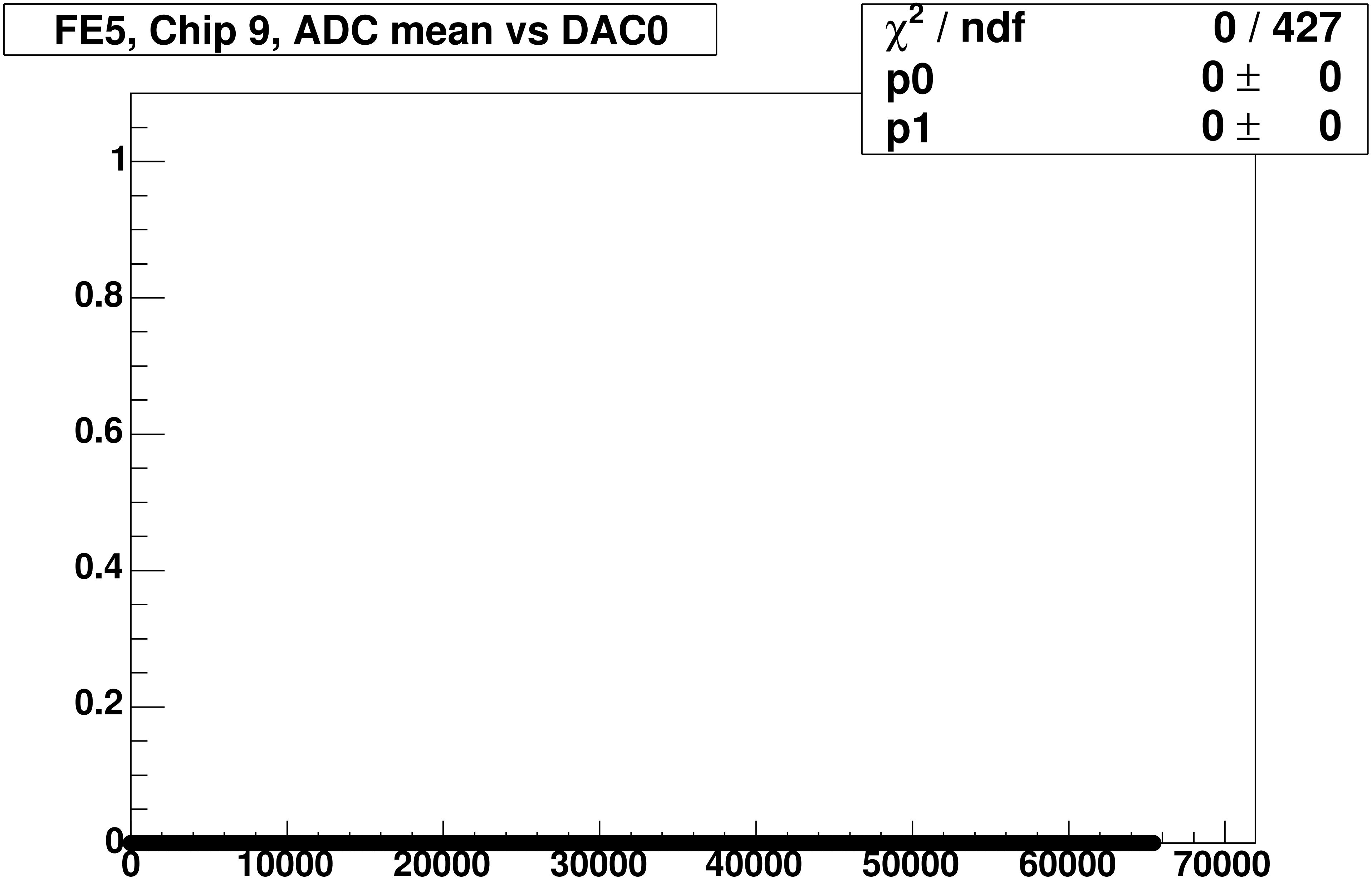



FE5, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

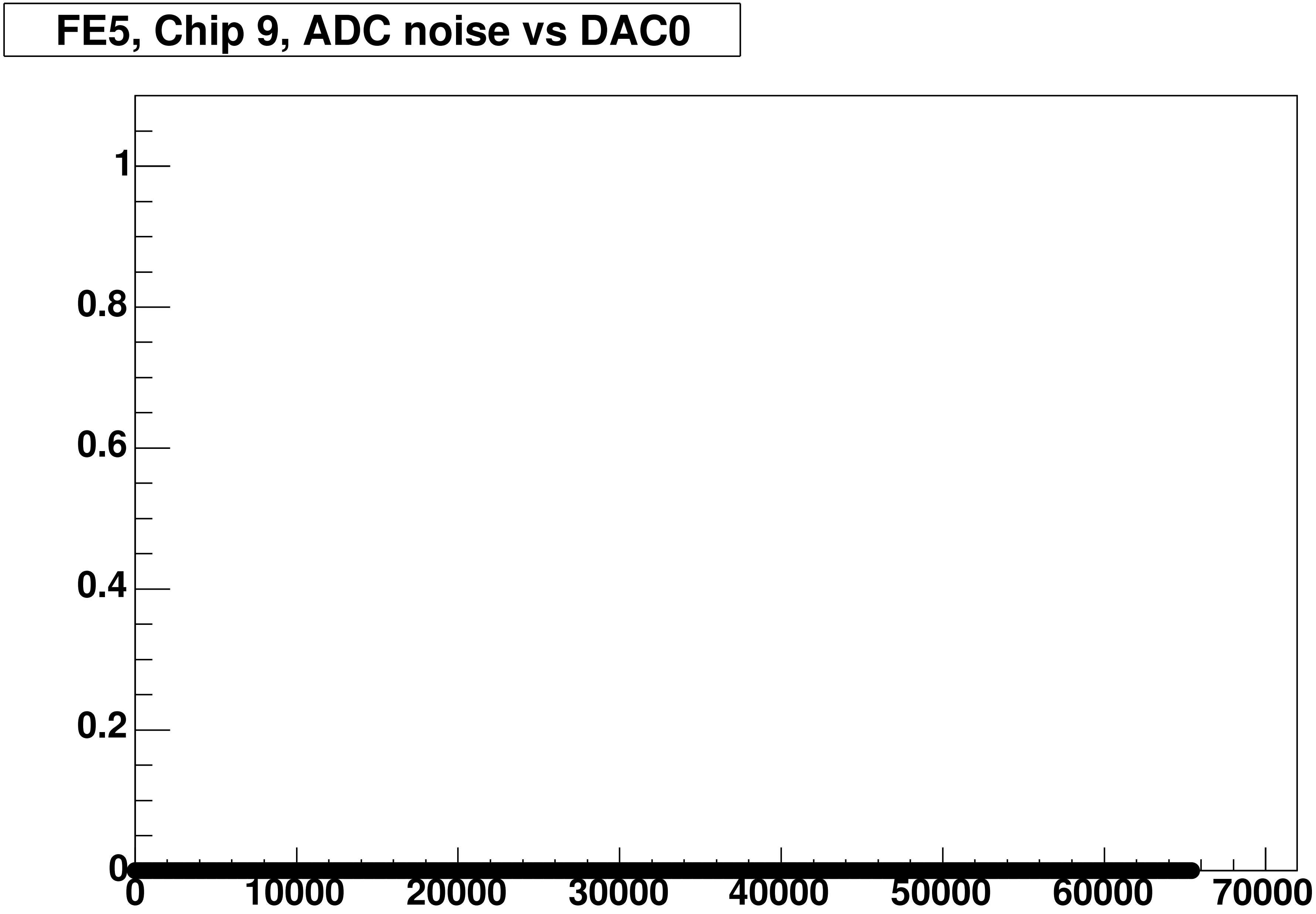
FE5, Chip 8, ADC noise vs DAC1



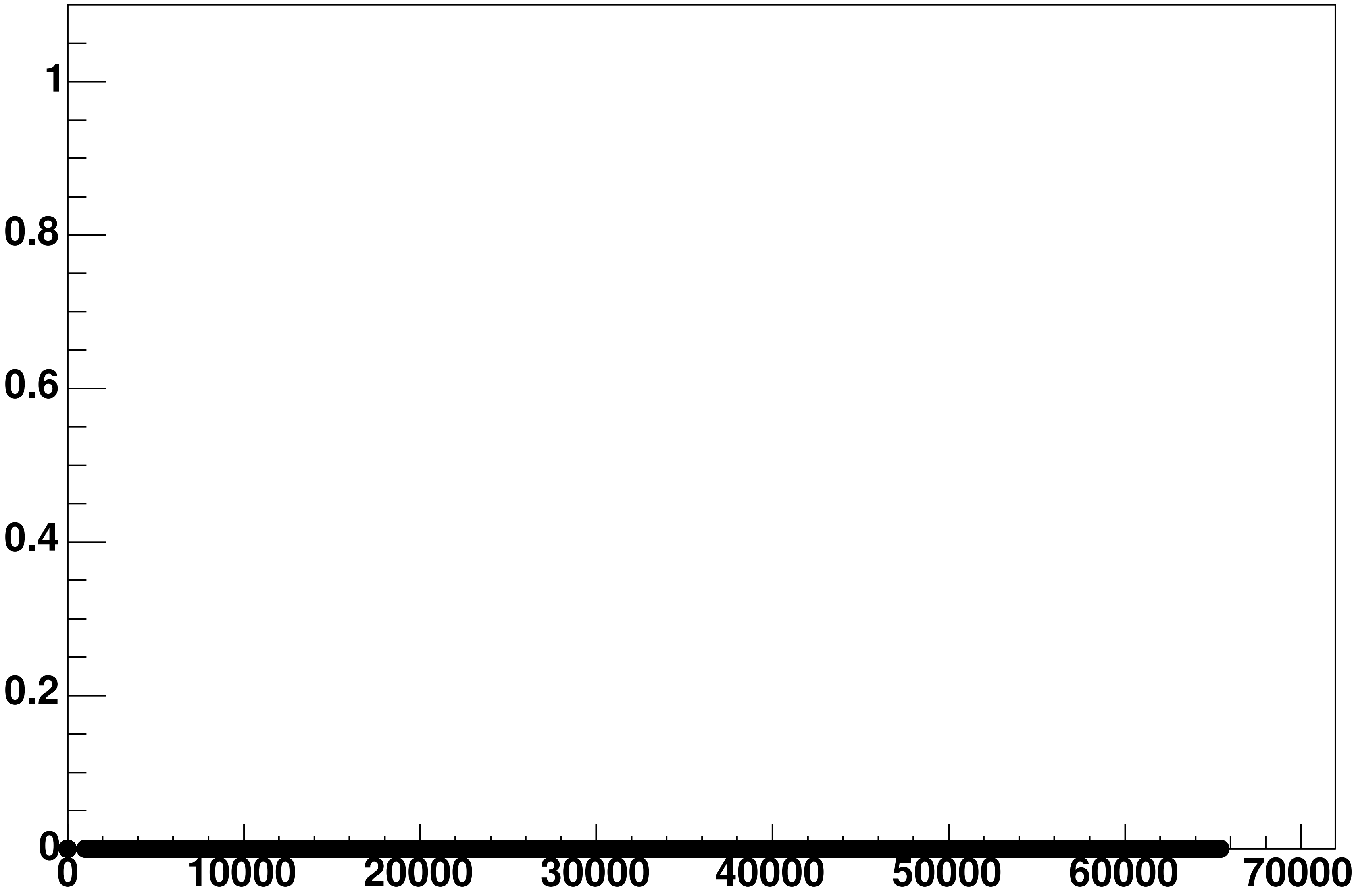

FE5, Chip 8, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

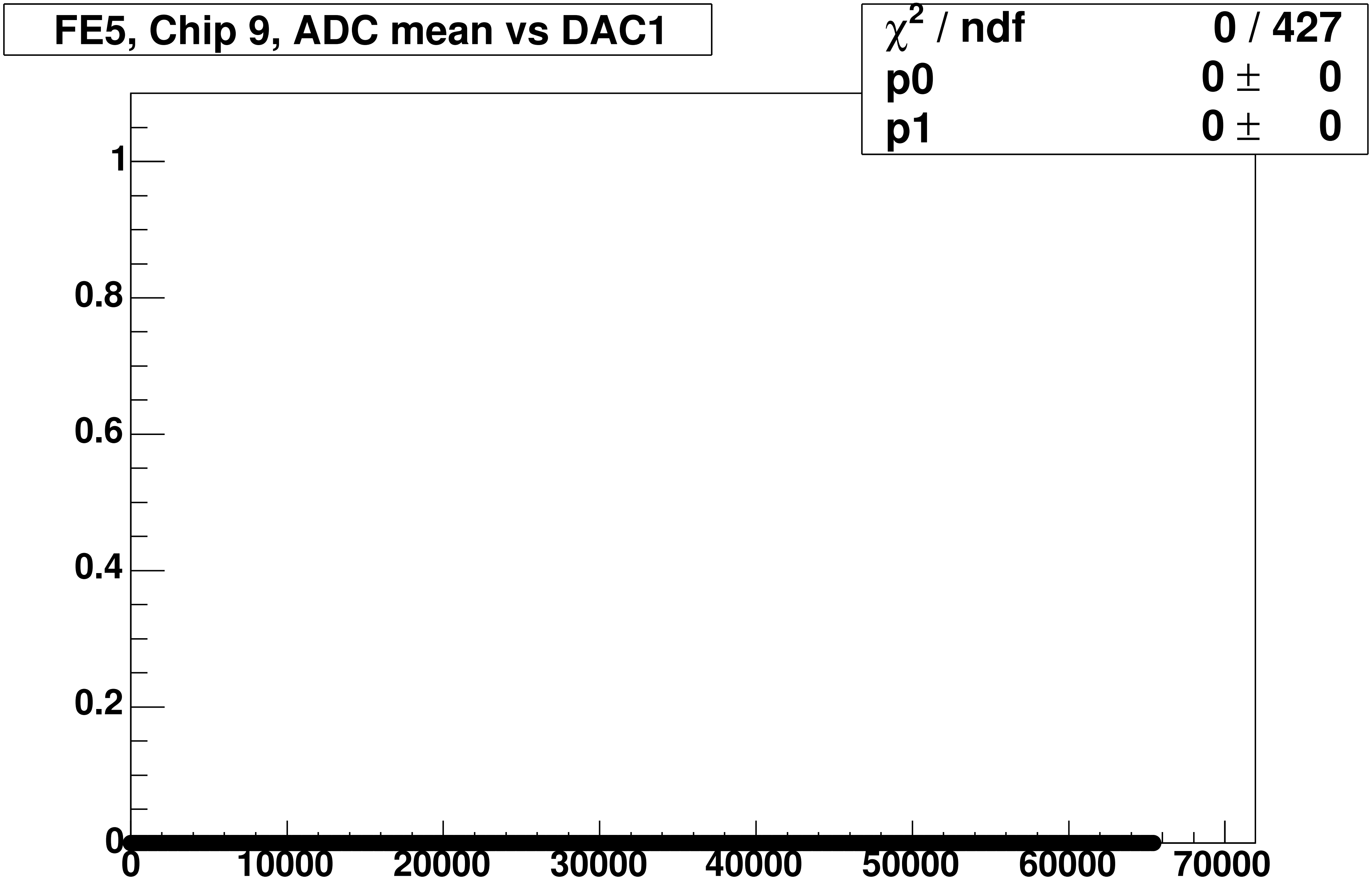


FE5, Chip 9, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE5, Chip 9, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

FE5, Chip 9, ADC residuals vs DAC0




FE5, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
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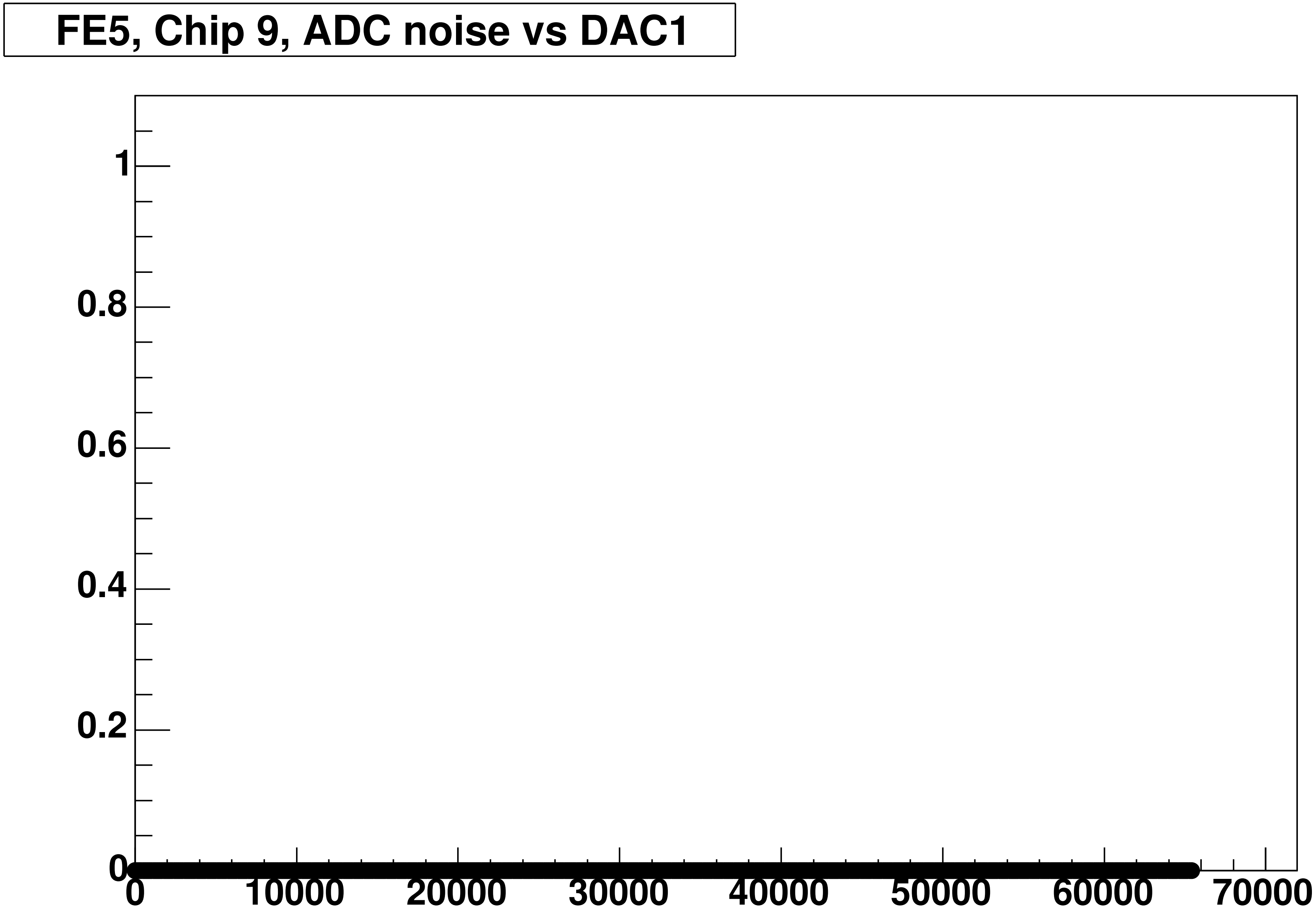
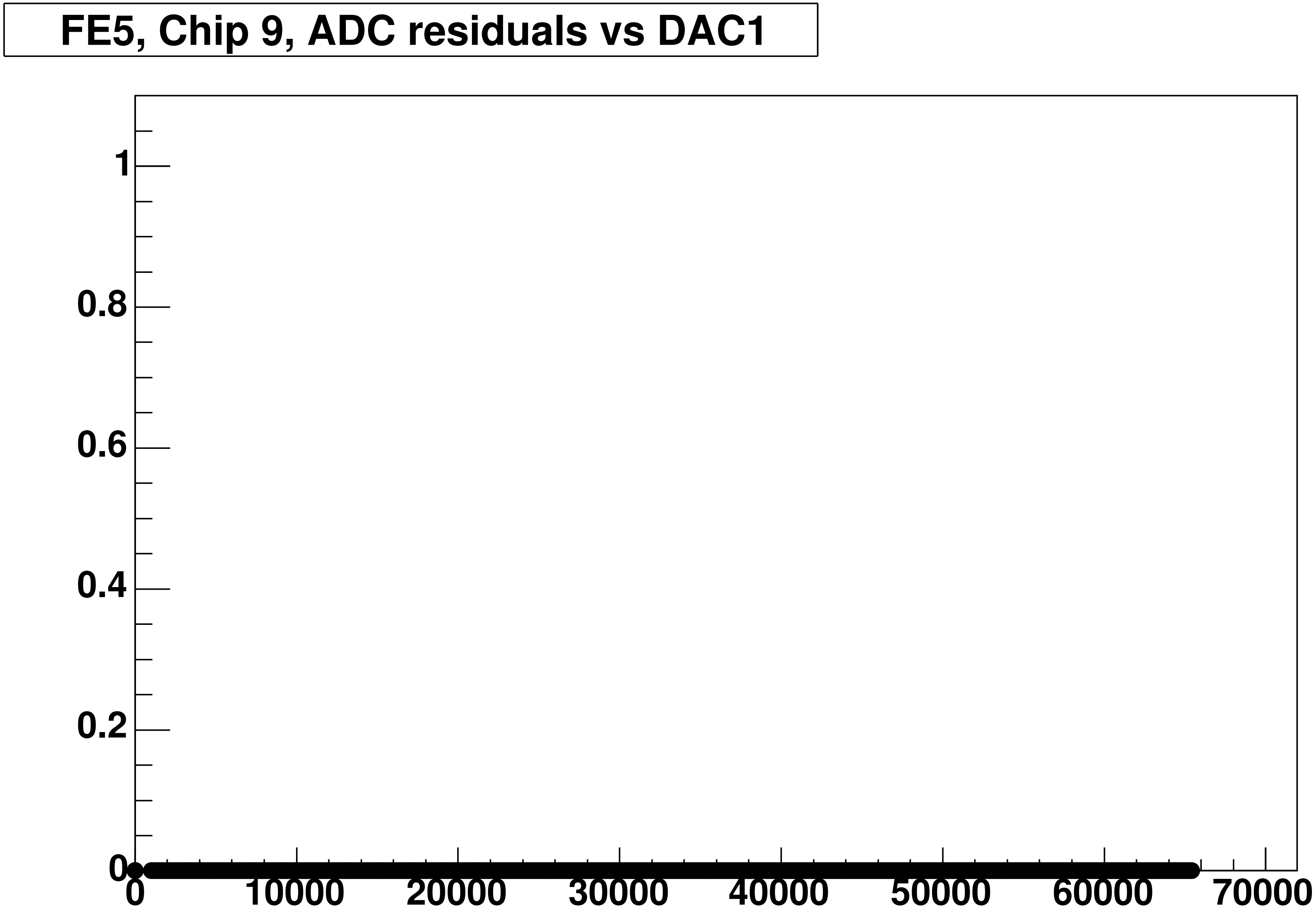
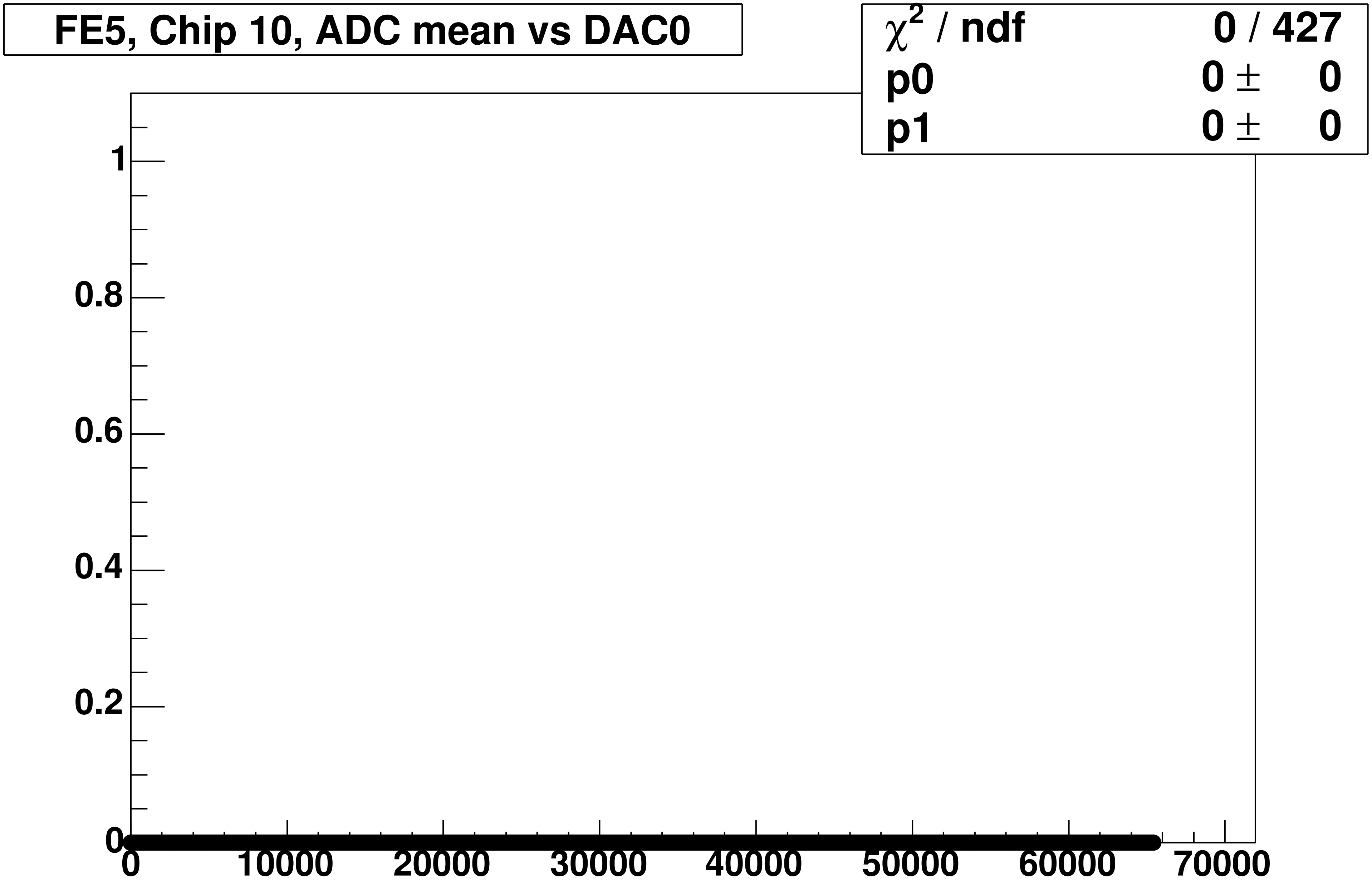
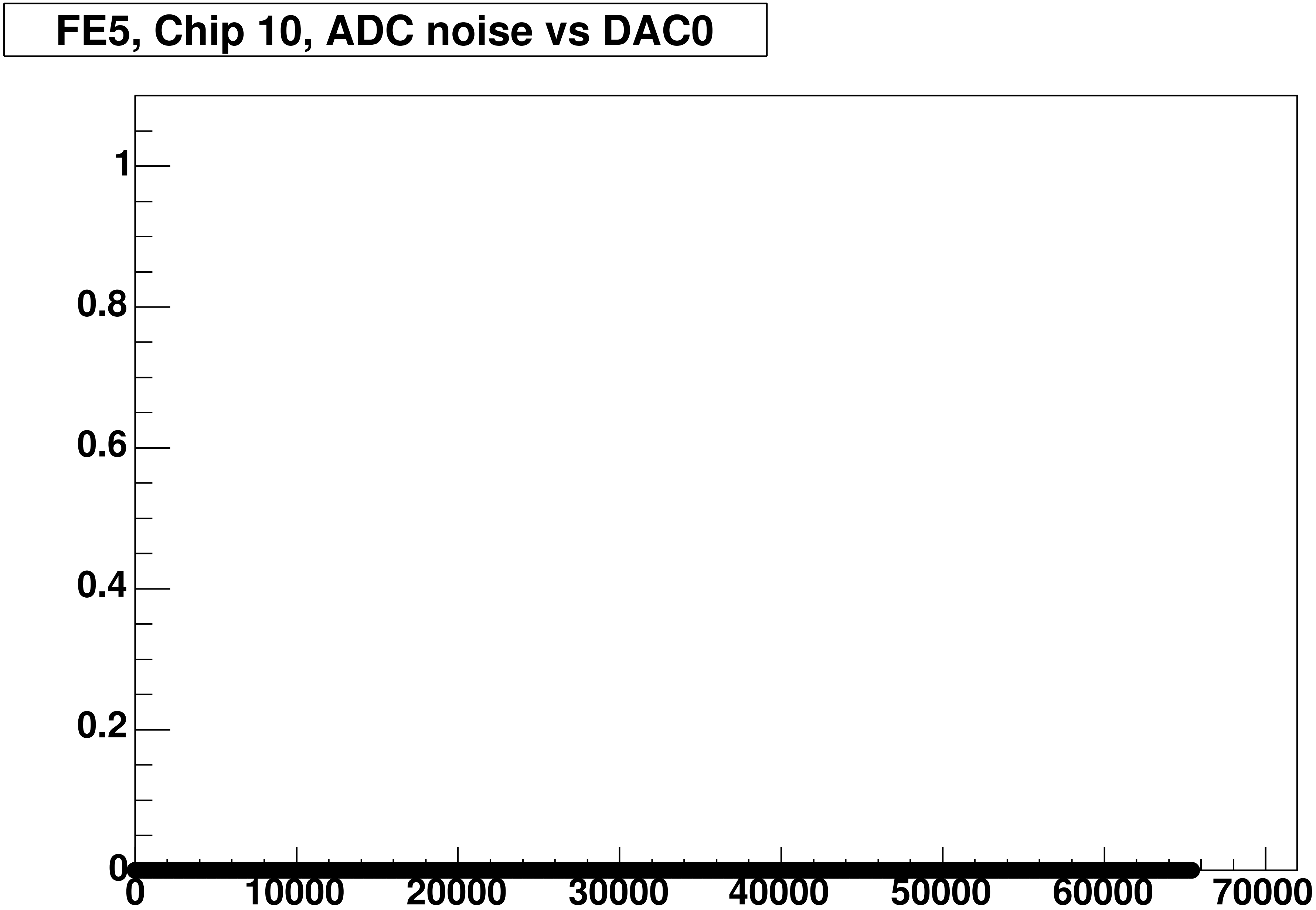
70000

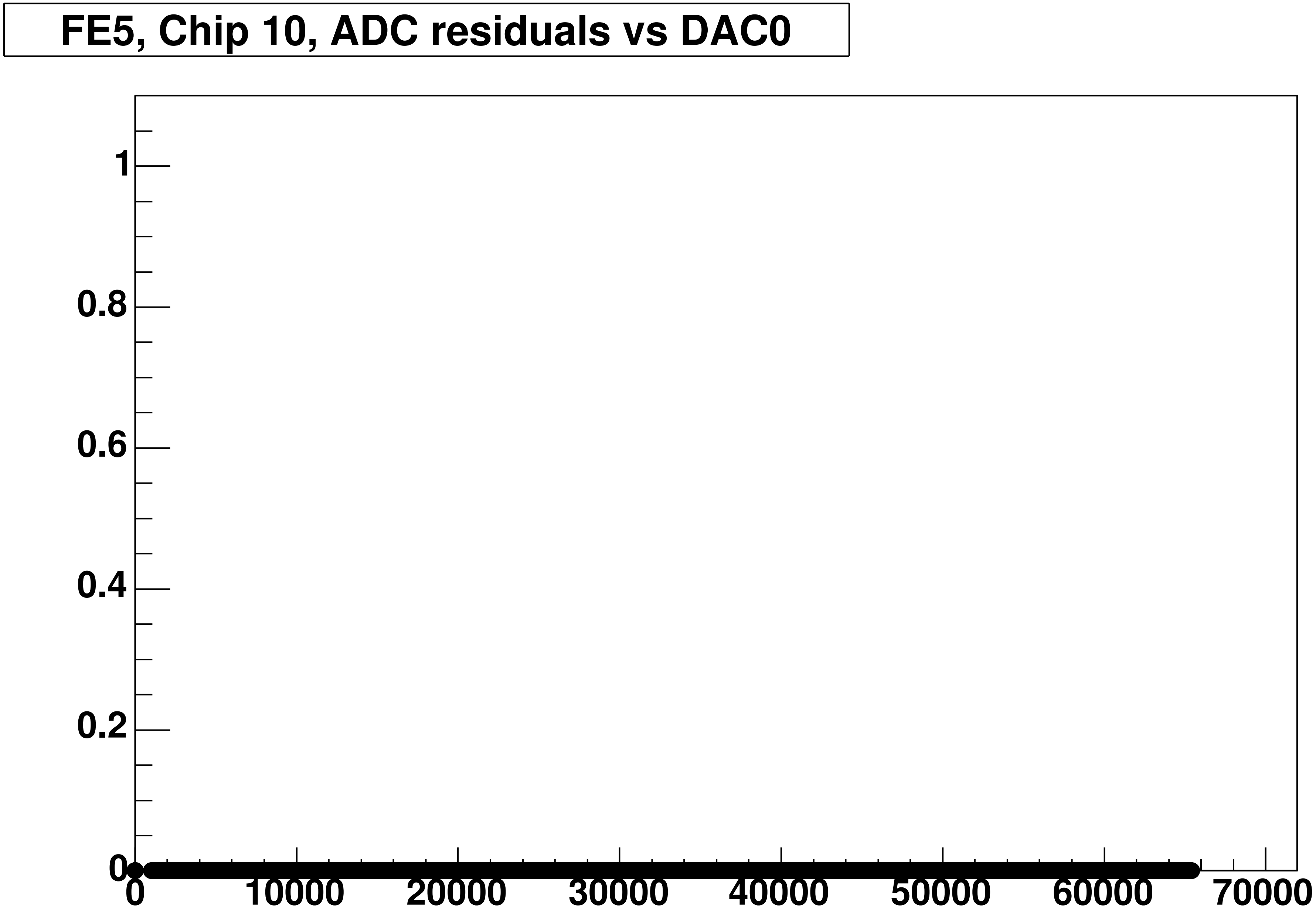

FE5, Chip 9, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

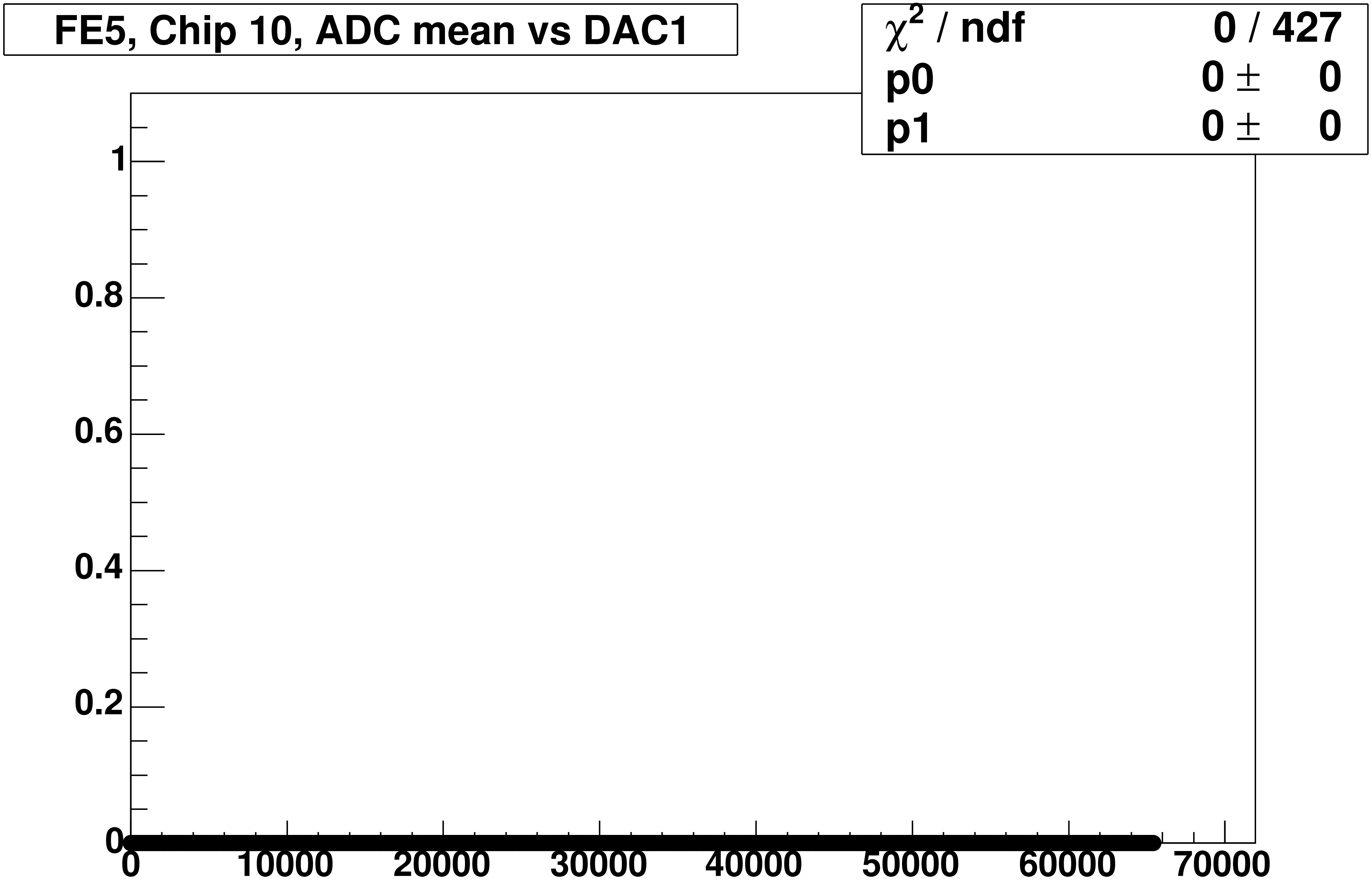

FE5, Chip 9, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



FE5, Chip 10, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE5, Chip 10, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE5, Chip 10, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



FE5, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
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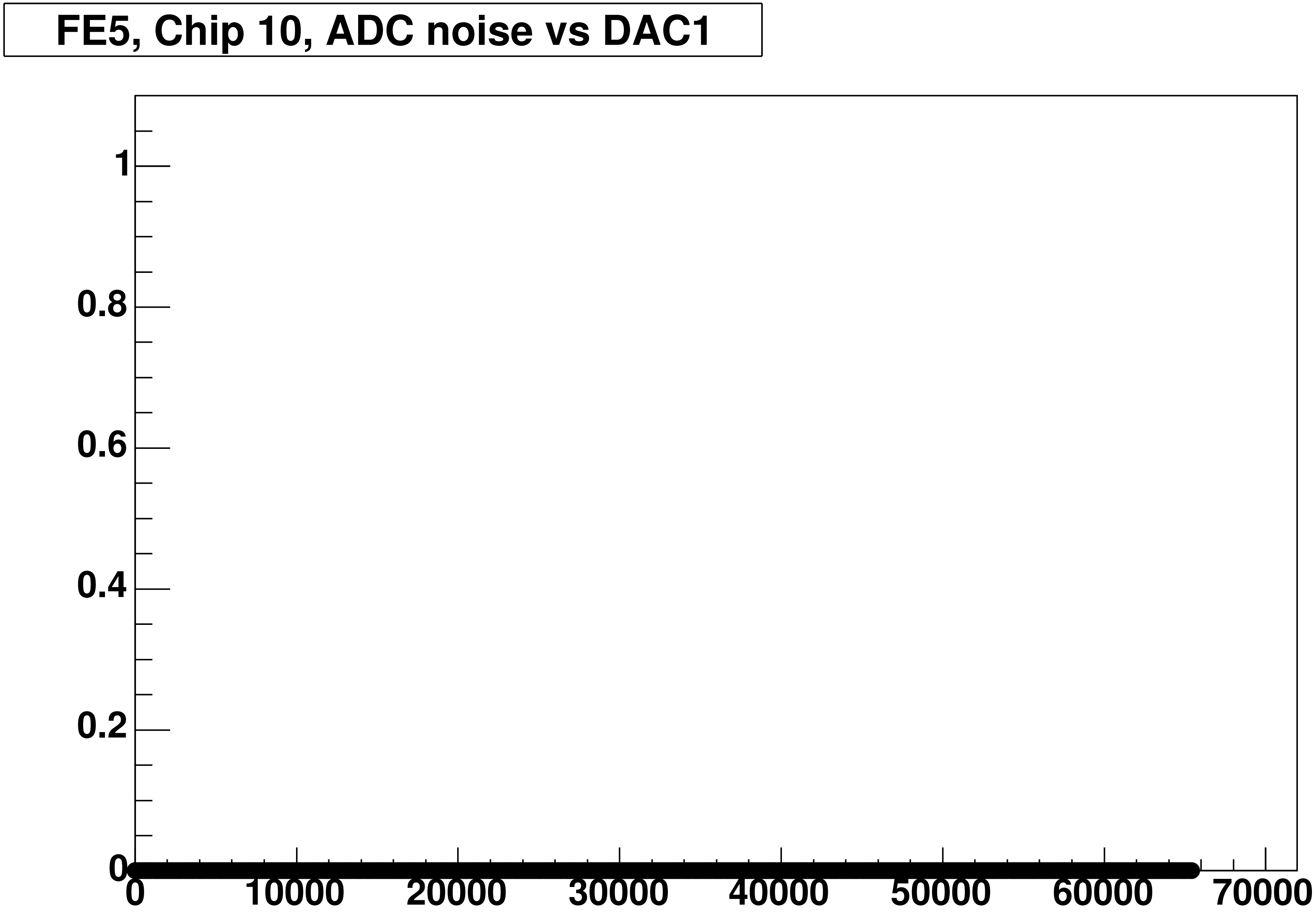
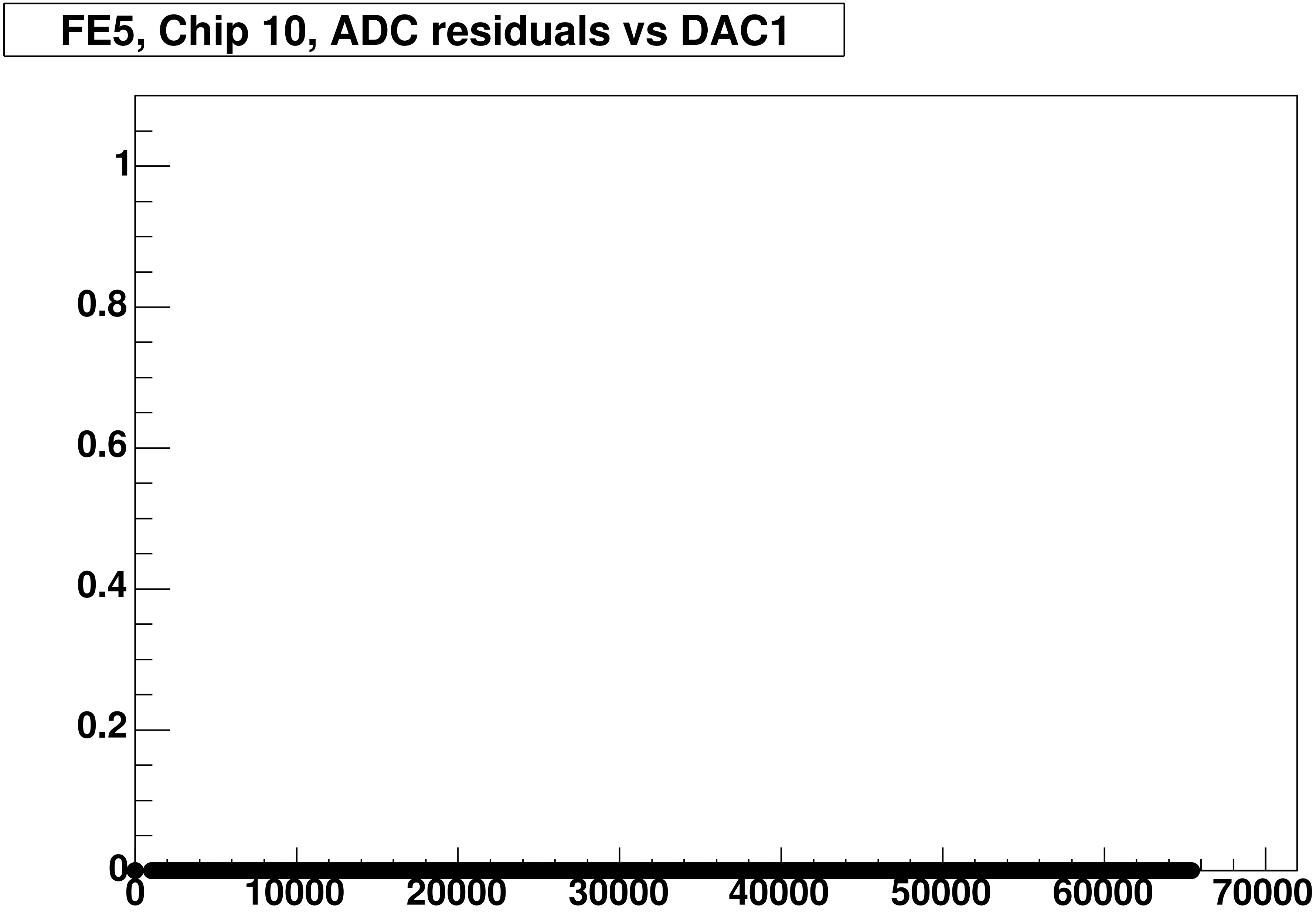
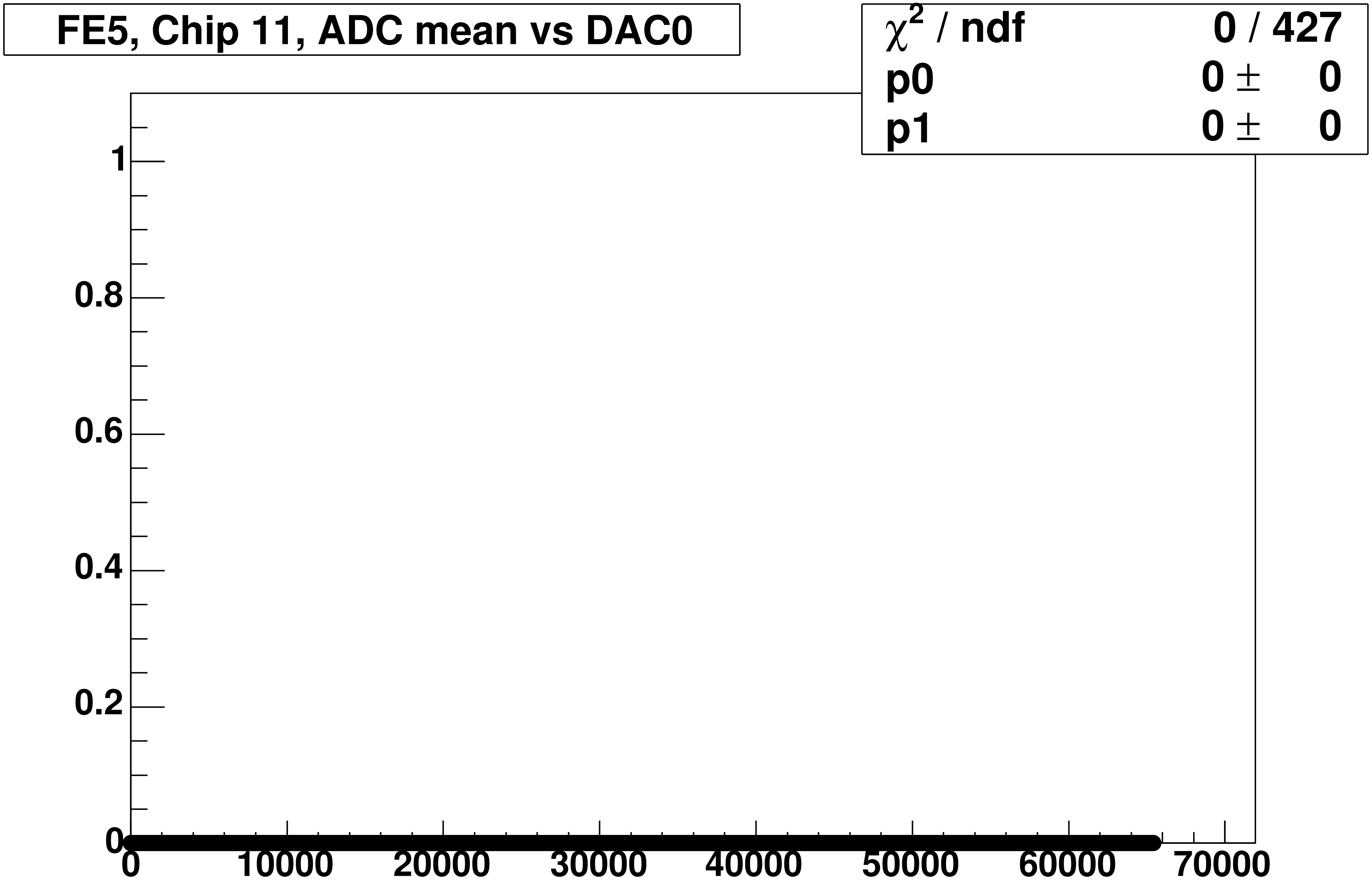
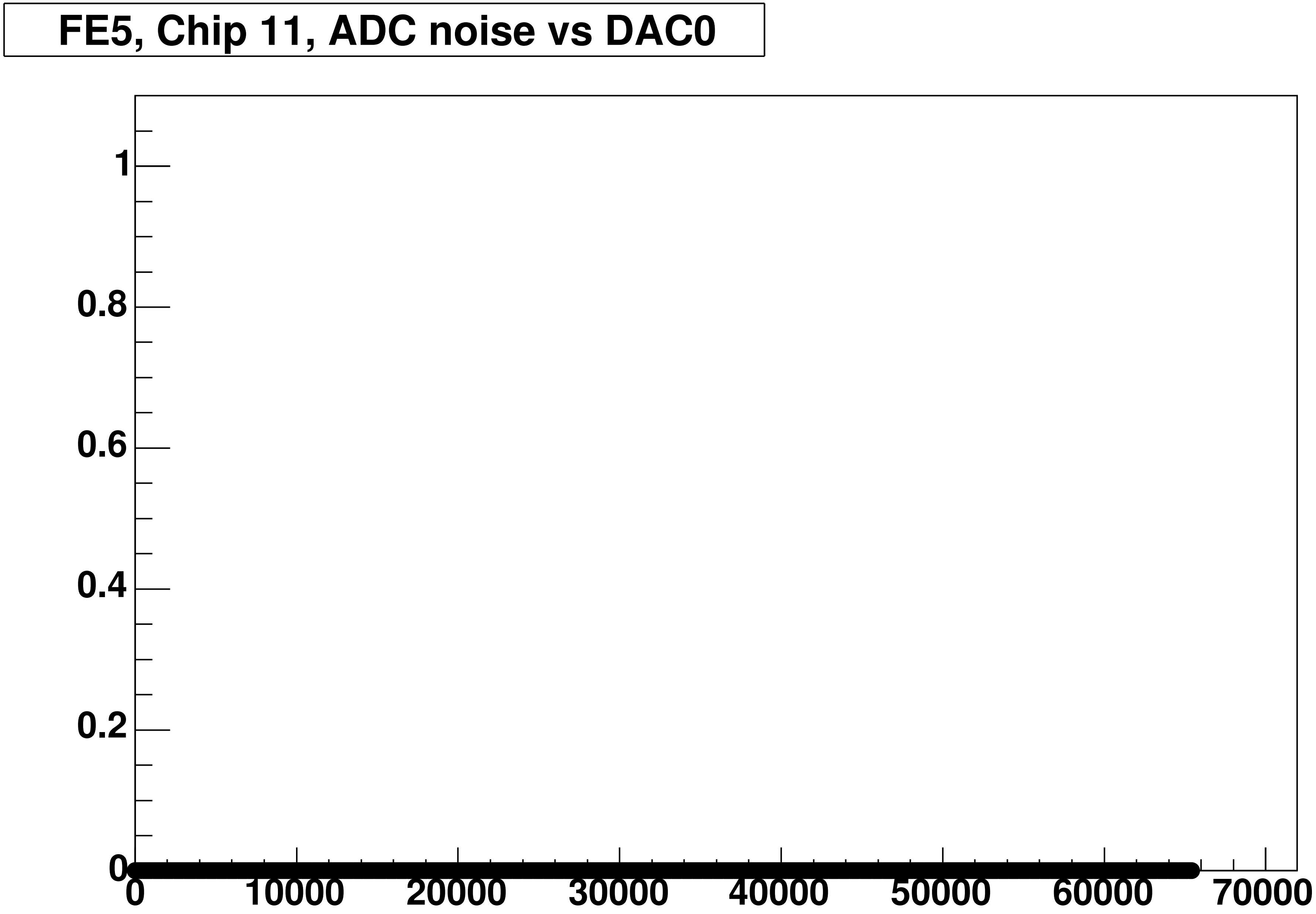
40000
50000
60000
70000

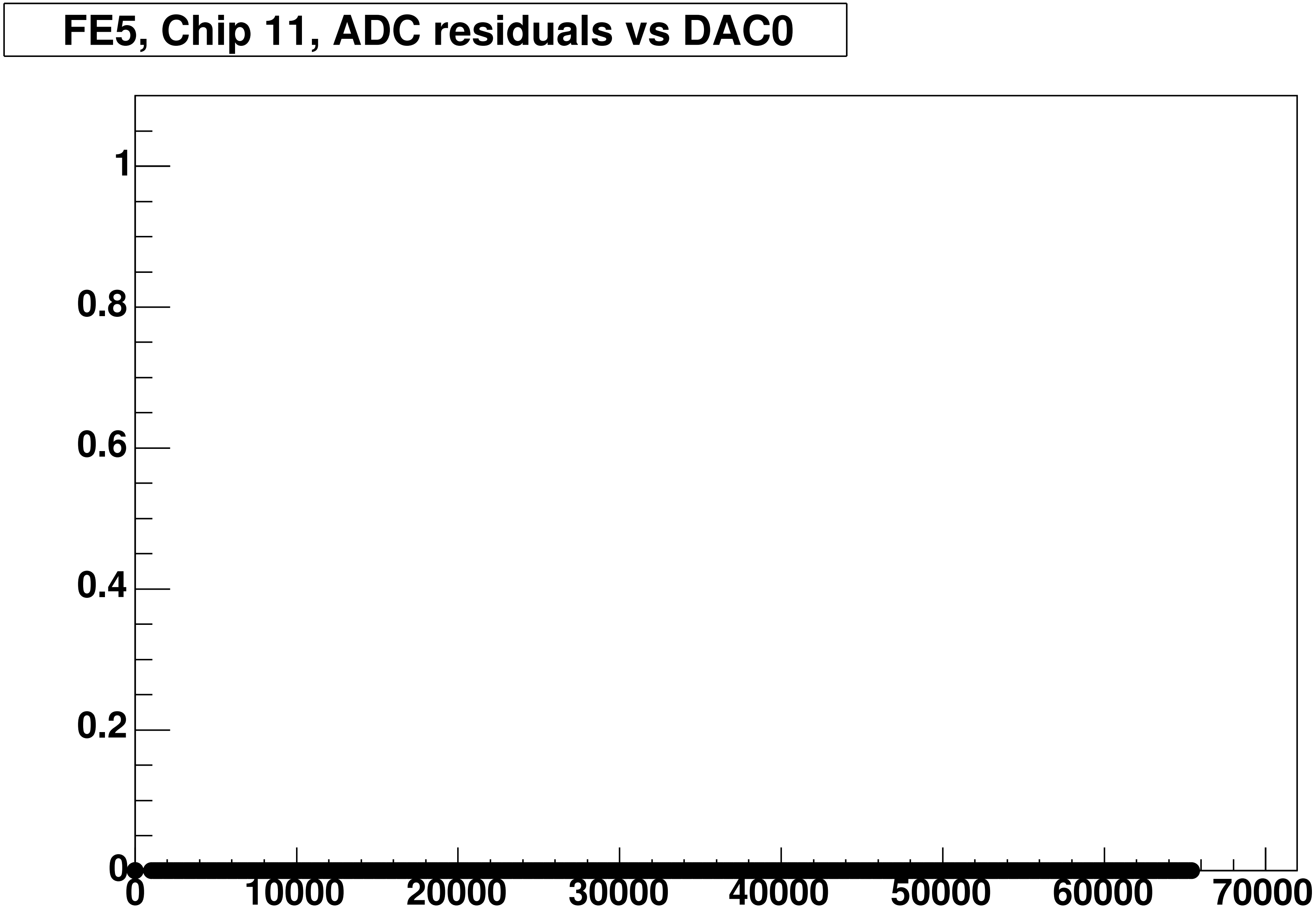

FE5, Chip 10, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE5, Chip 10, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



FE5, Chip 11, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE5, Chip 11, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE5, Chip 11, ADC residuals vs DAC0
1
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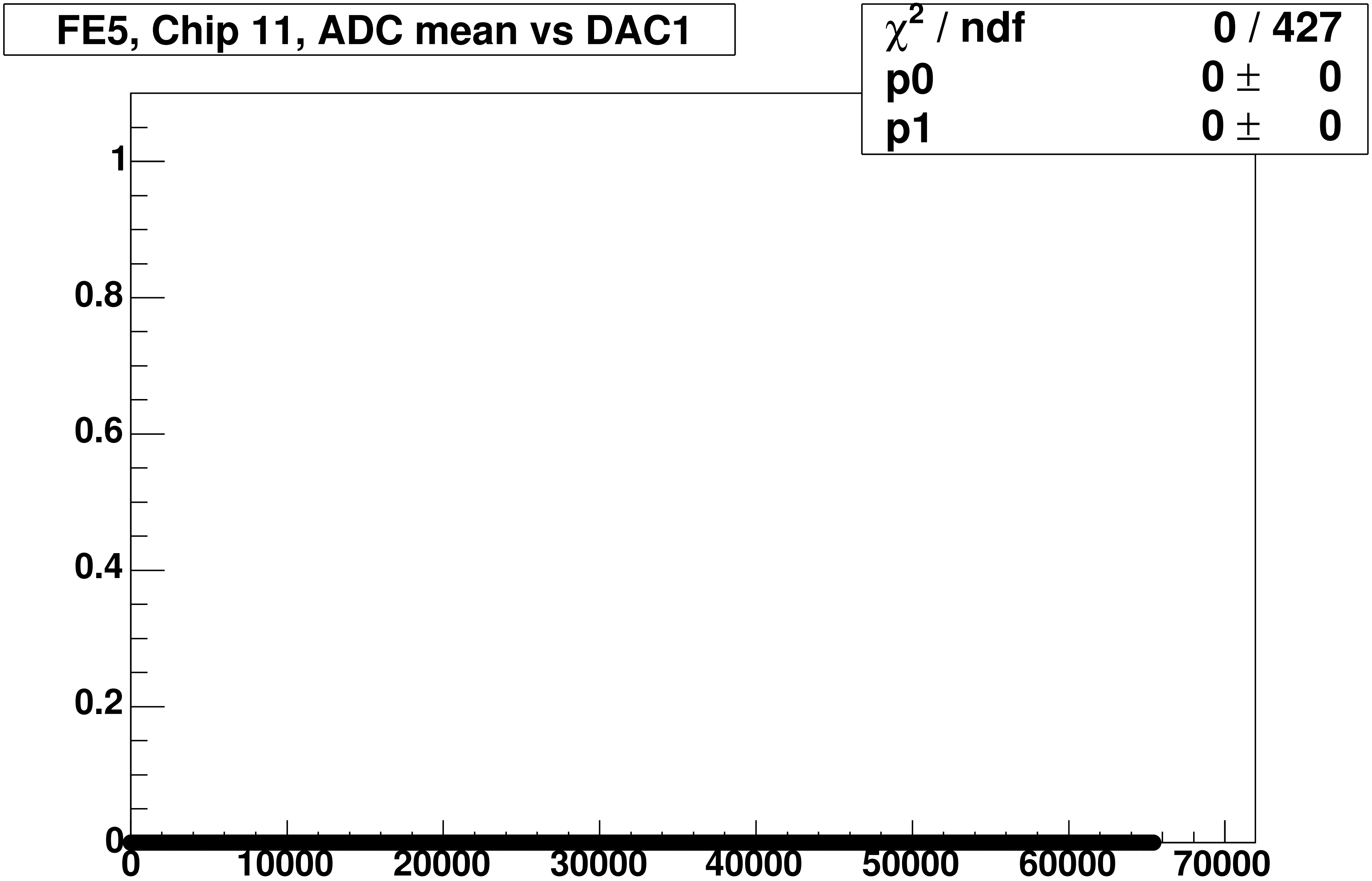
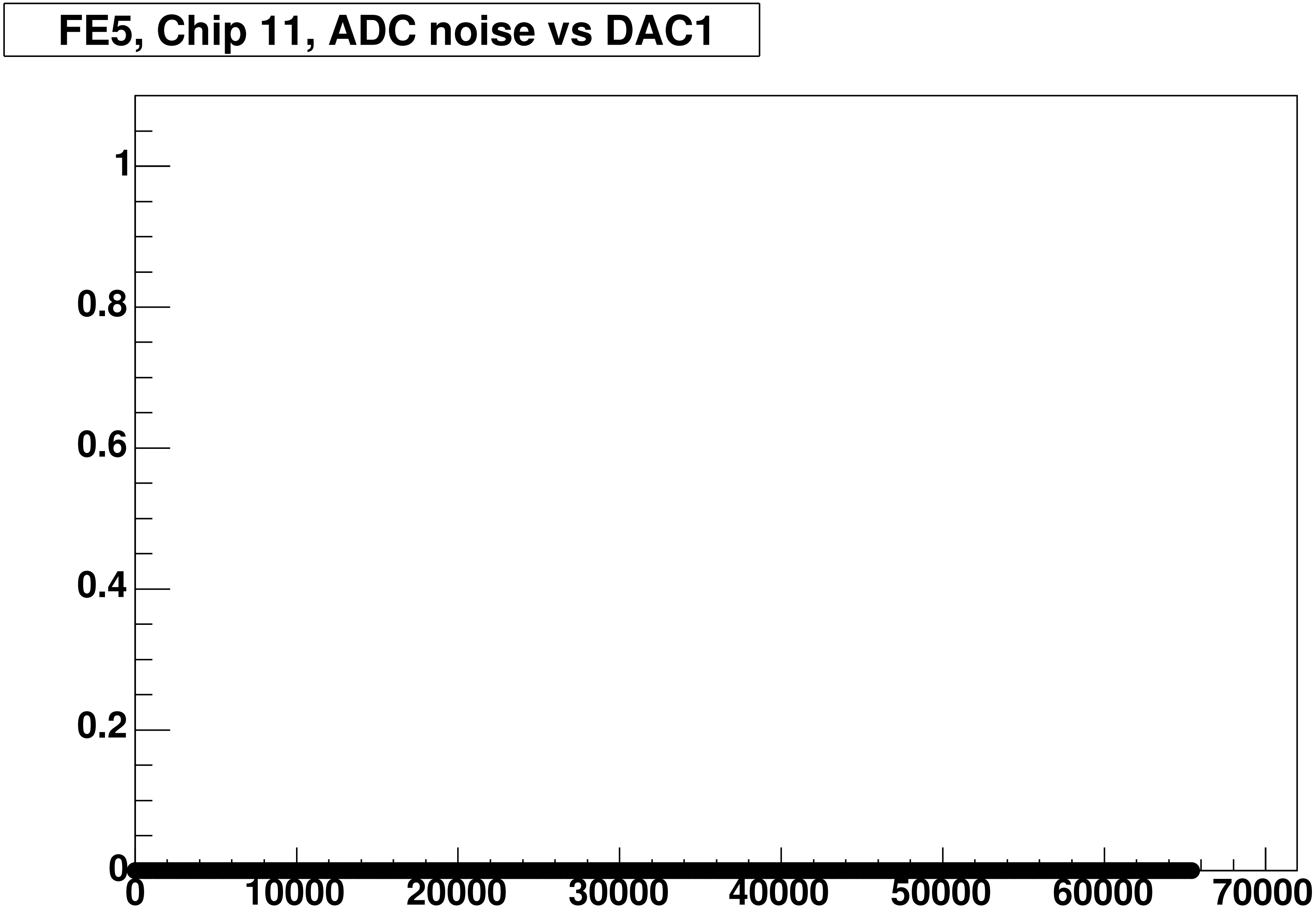
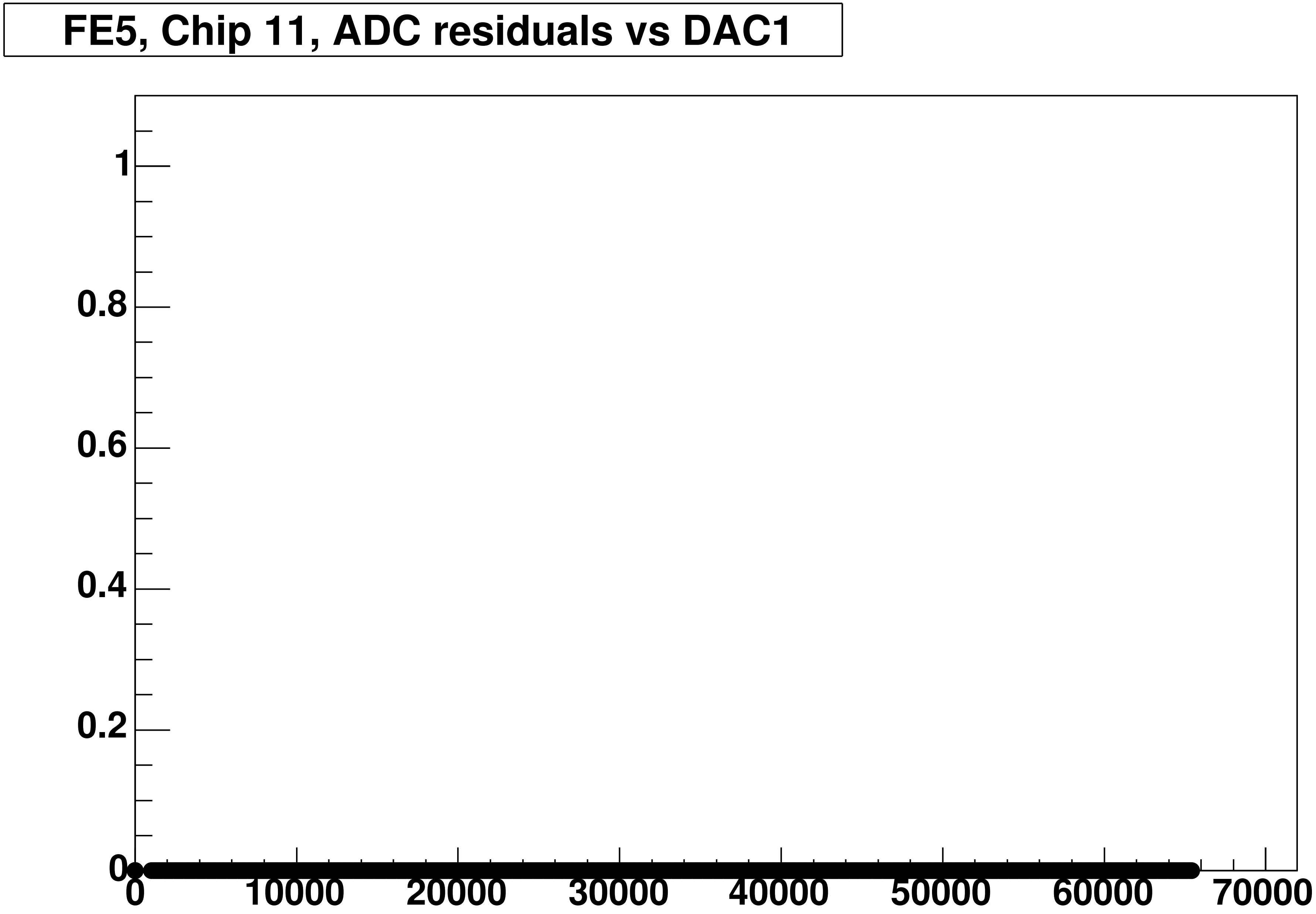
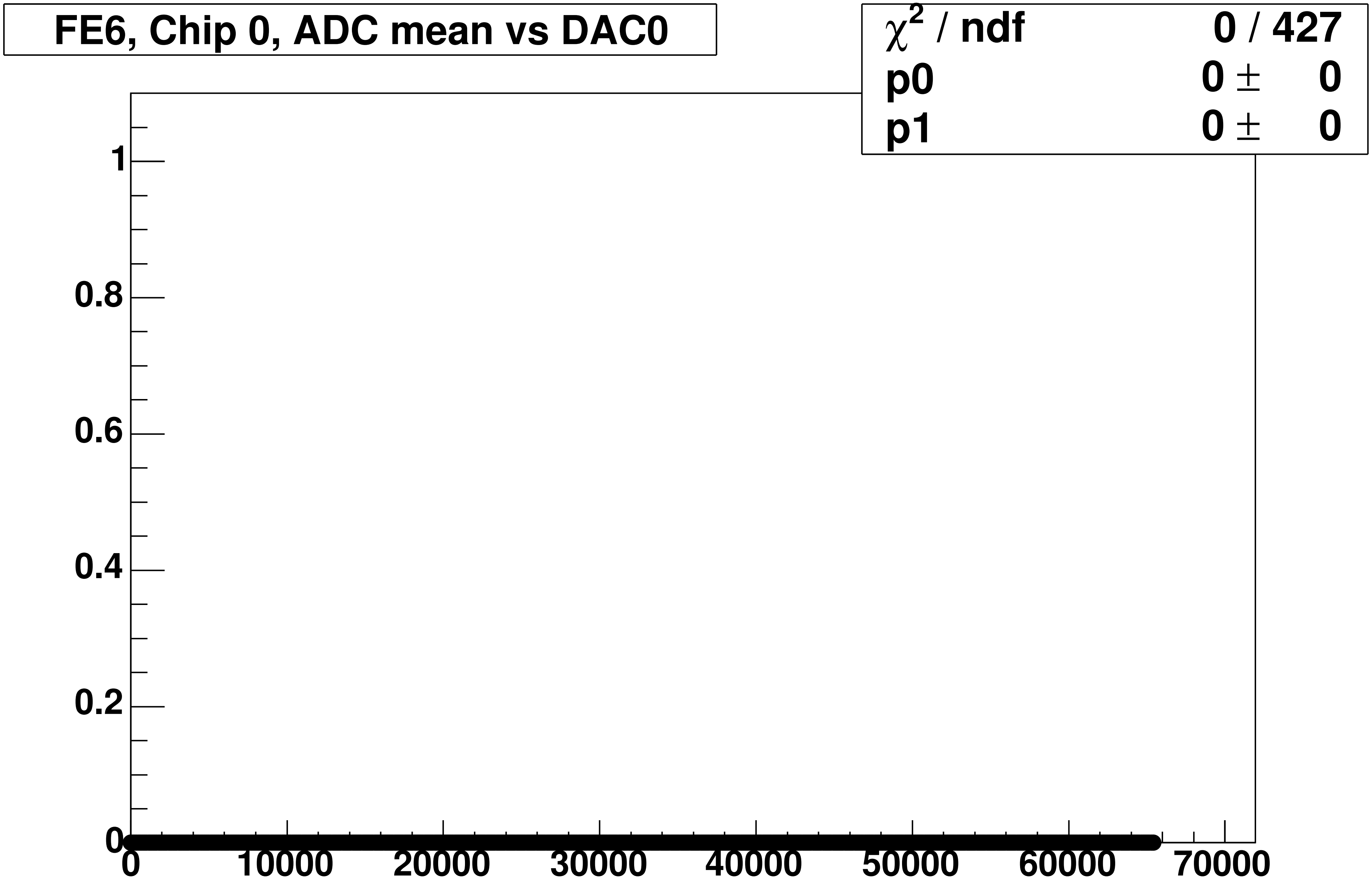
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



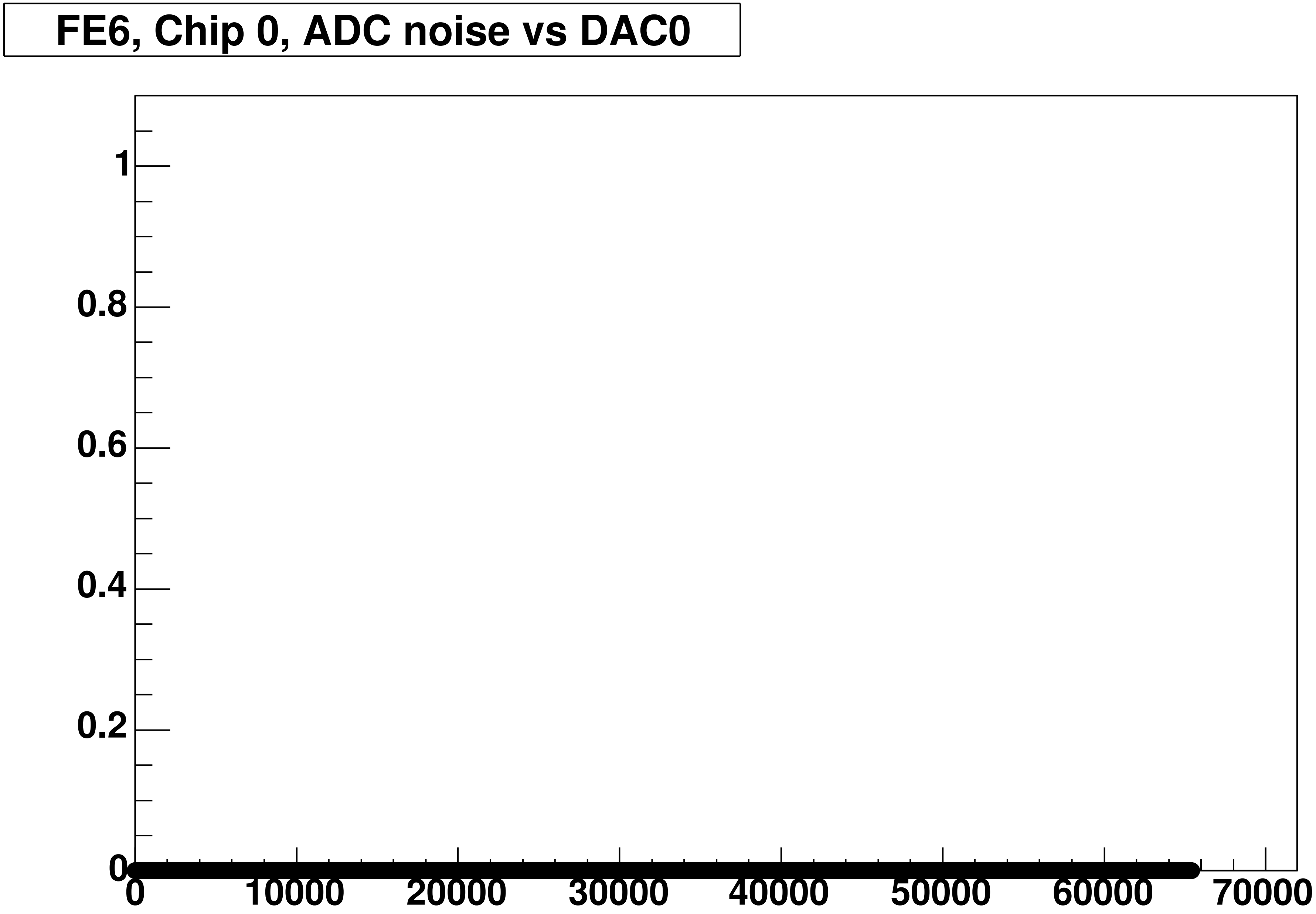
FE5, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000


FE5, Chip 11, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

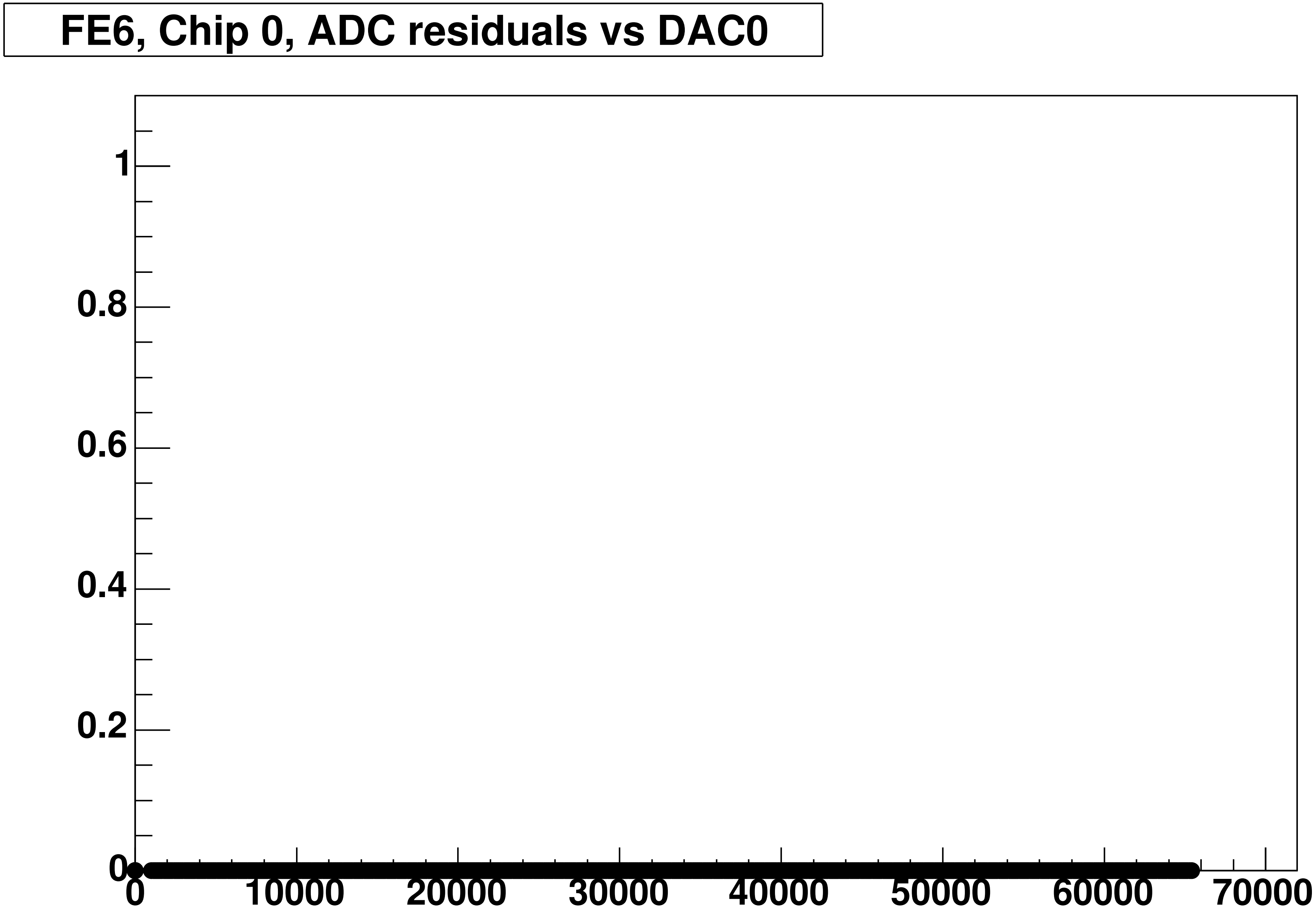

FE5, Chip 11, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

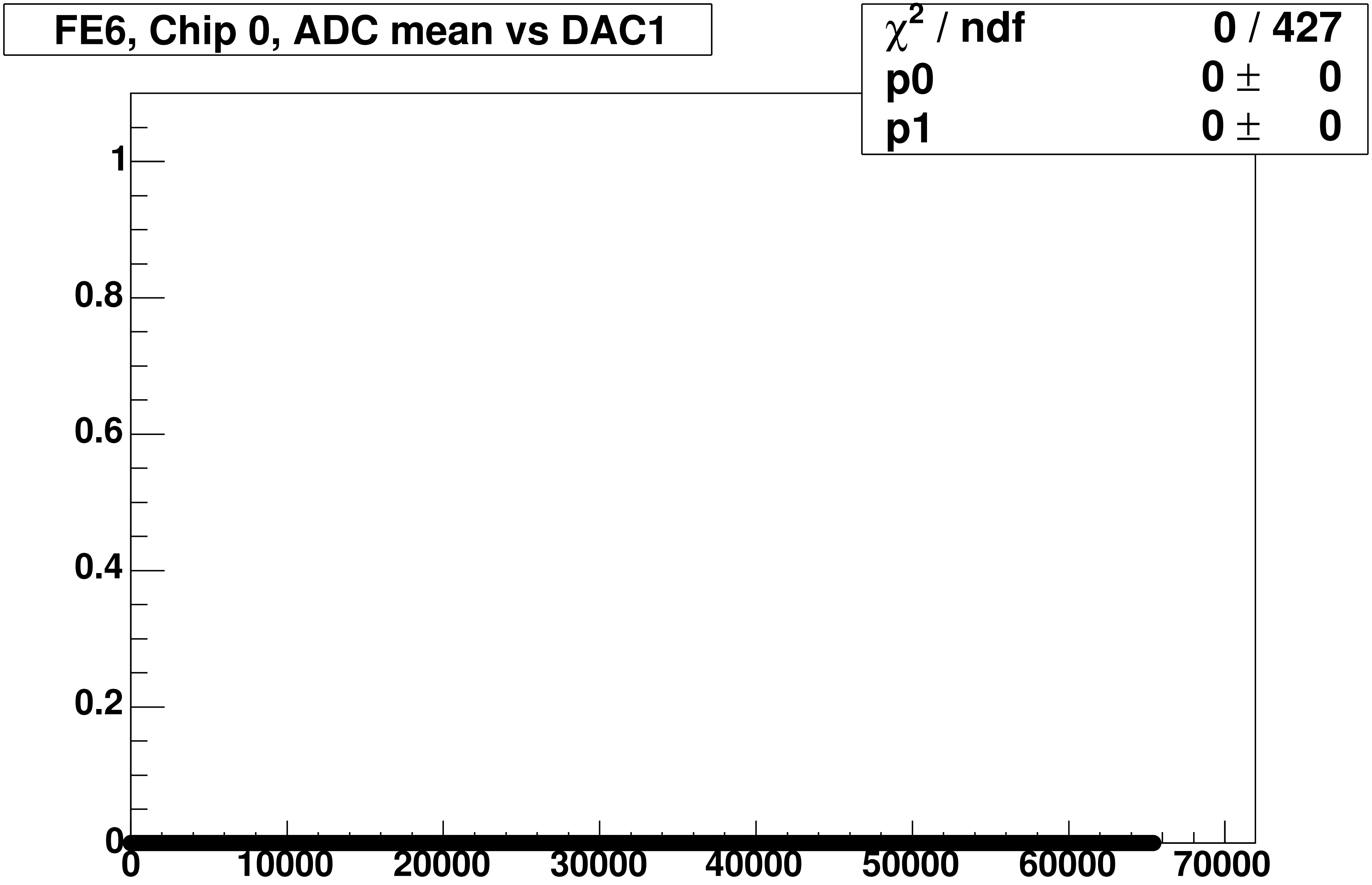


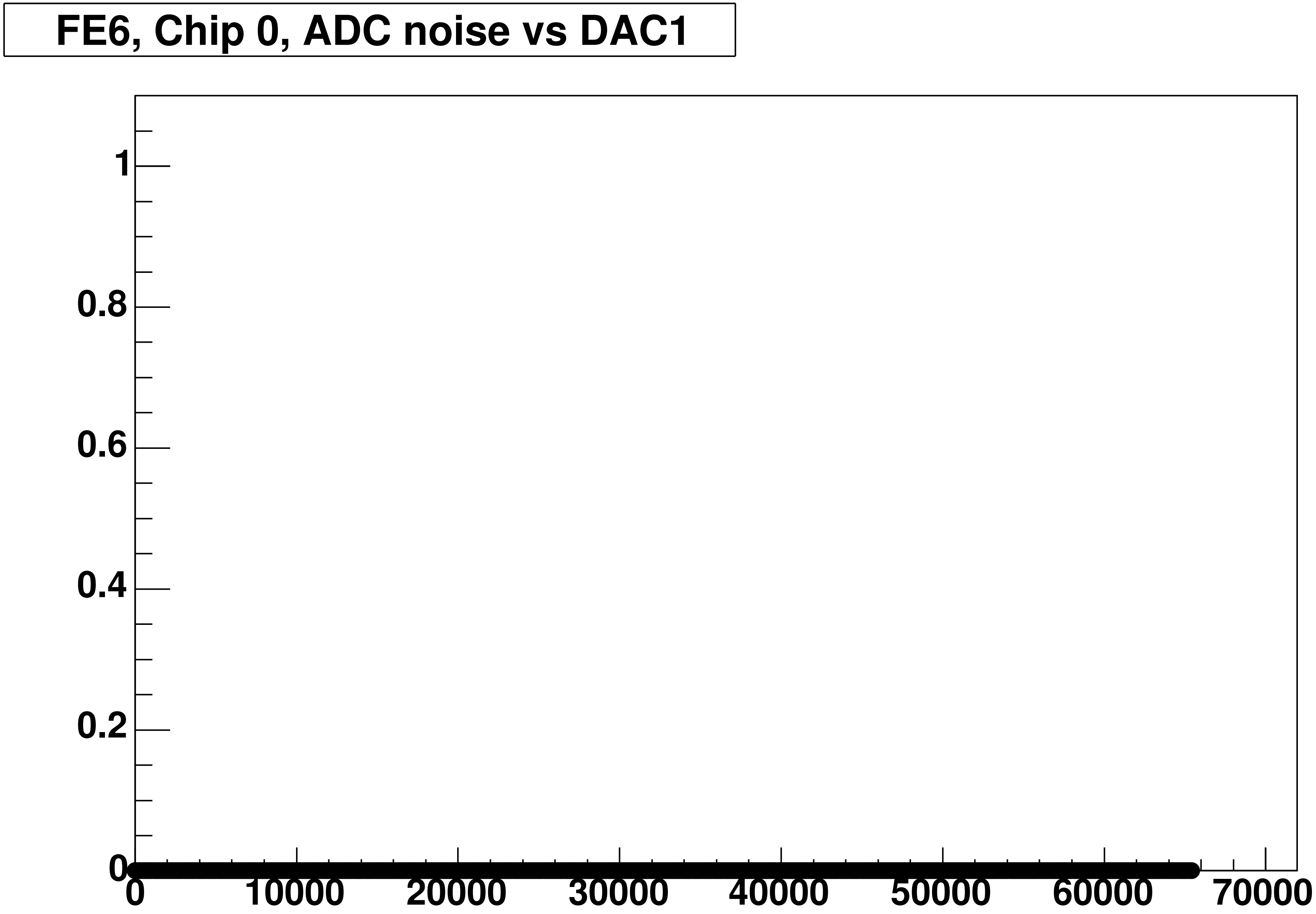
FE6, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

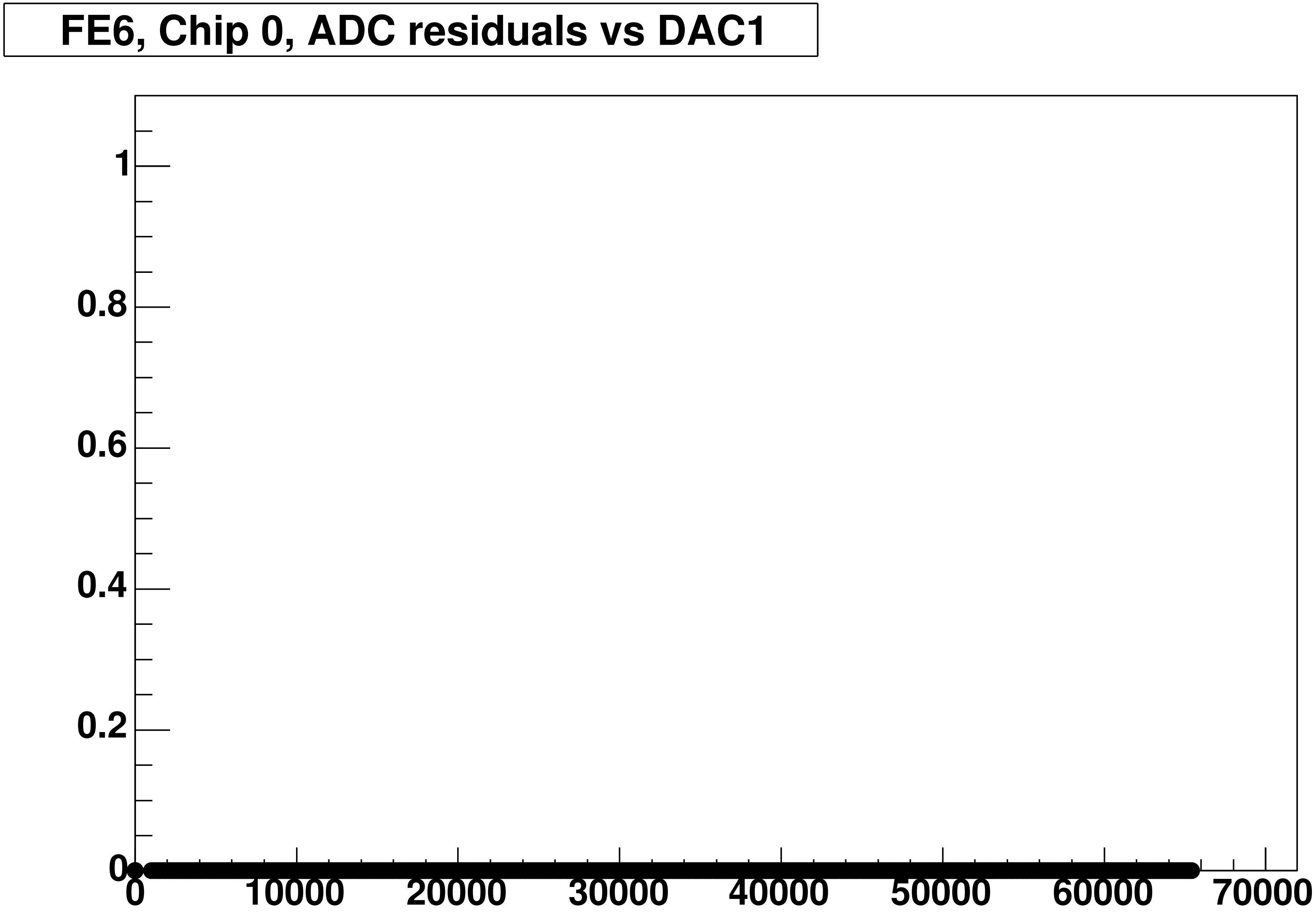


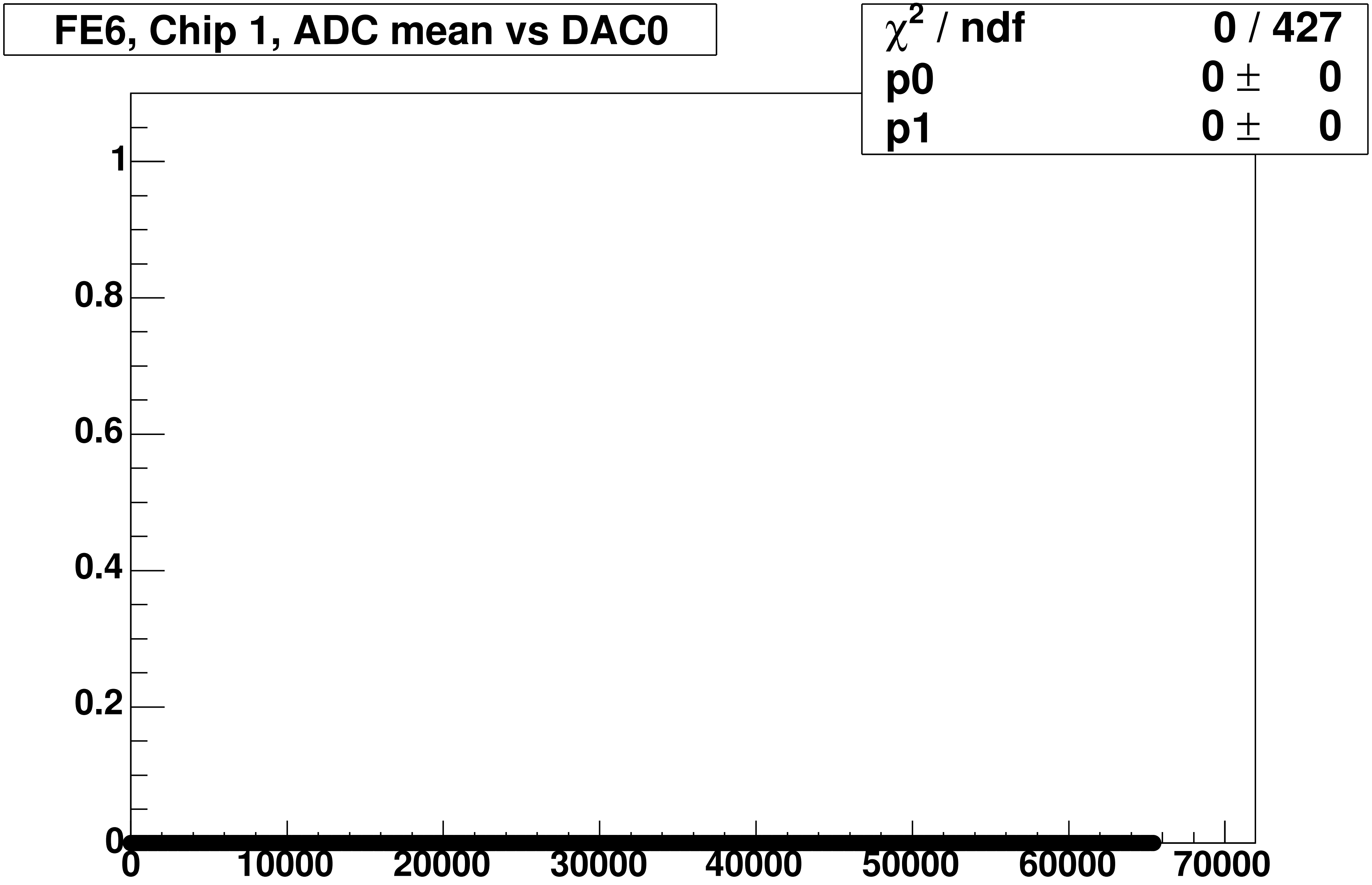
FE6, Chip 0, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 0, ADC residuals vs DAC0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

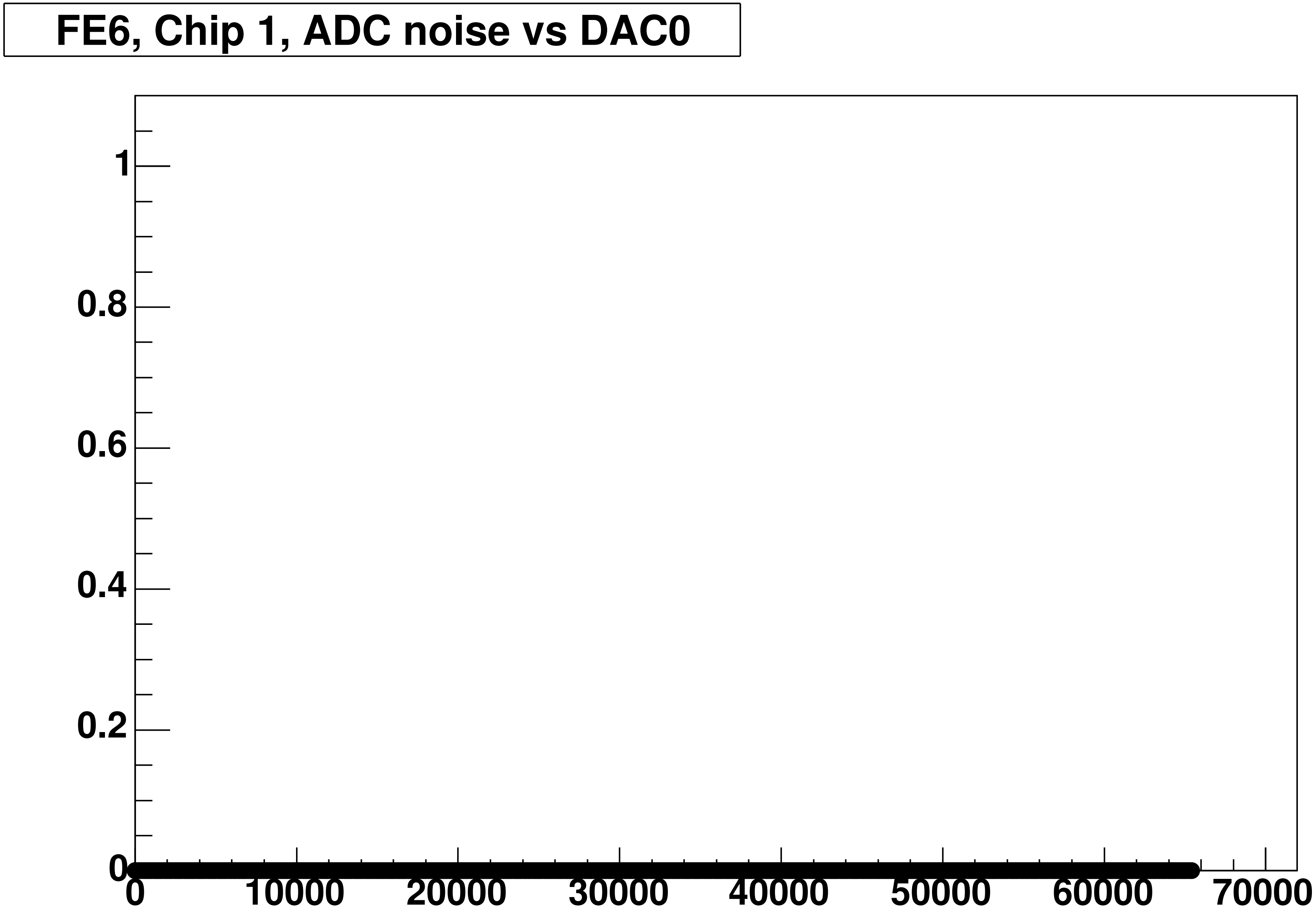

FE6, Chip 0, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

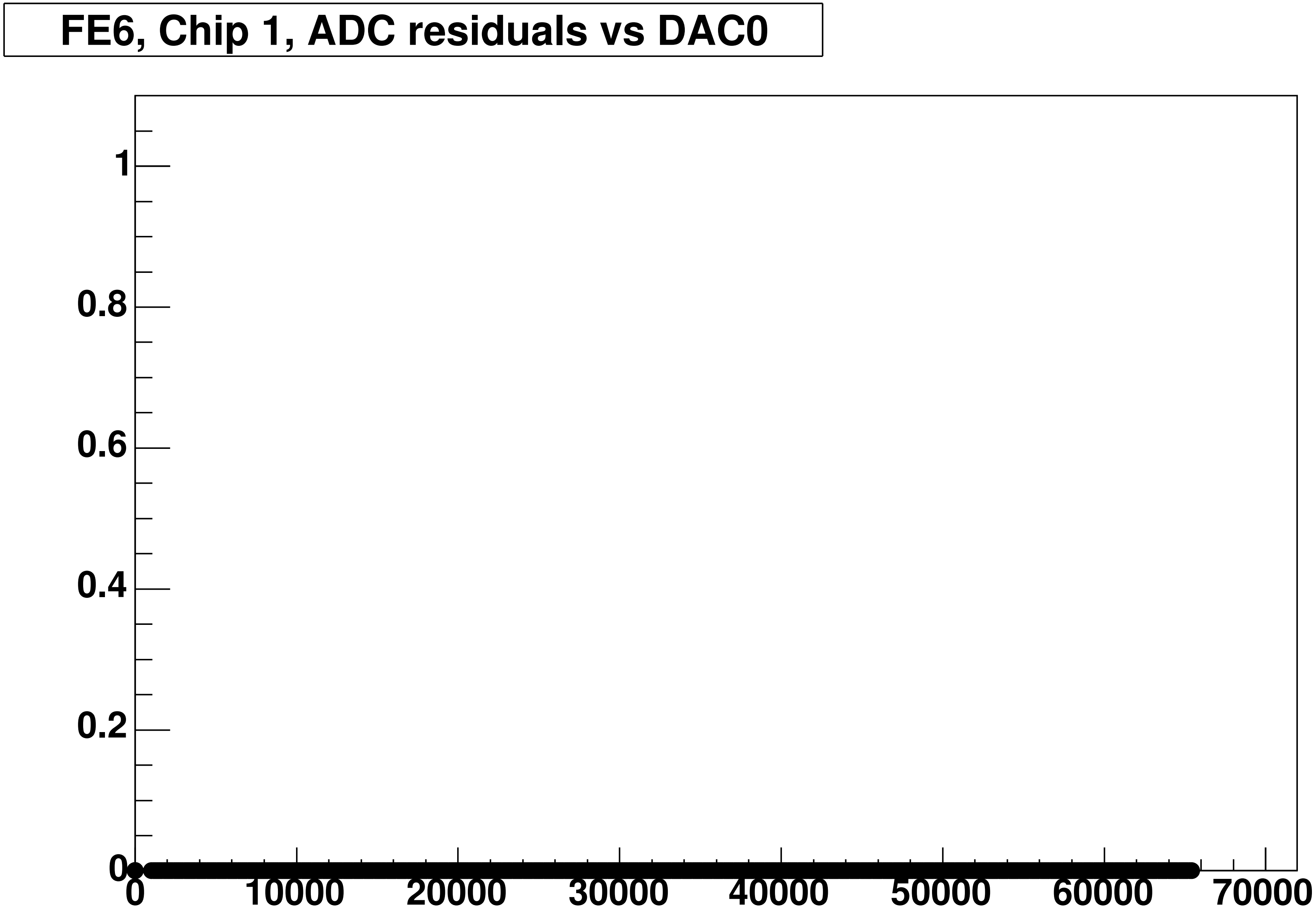



FE6, Chip 0, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

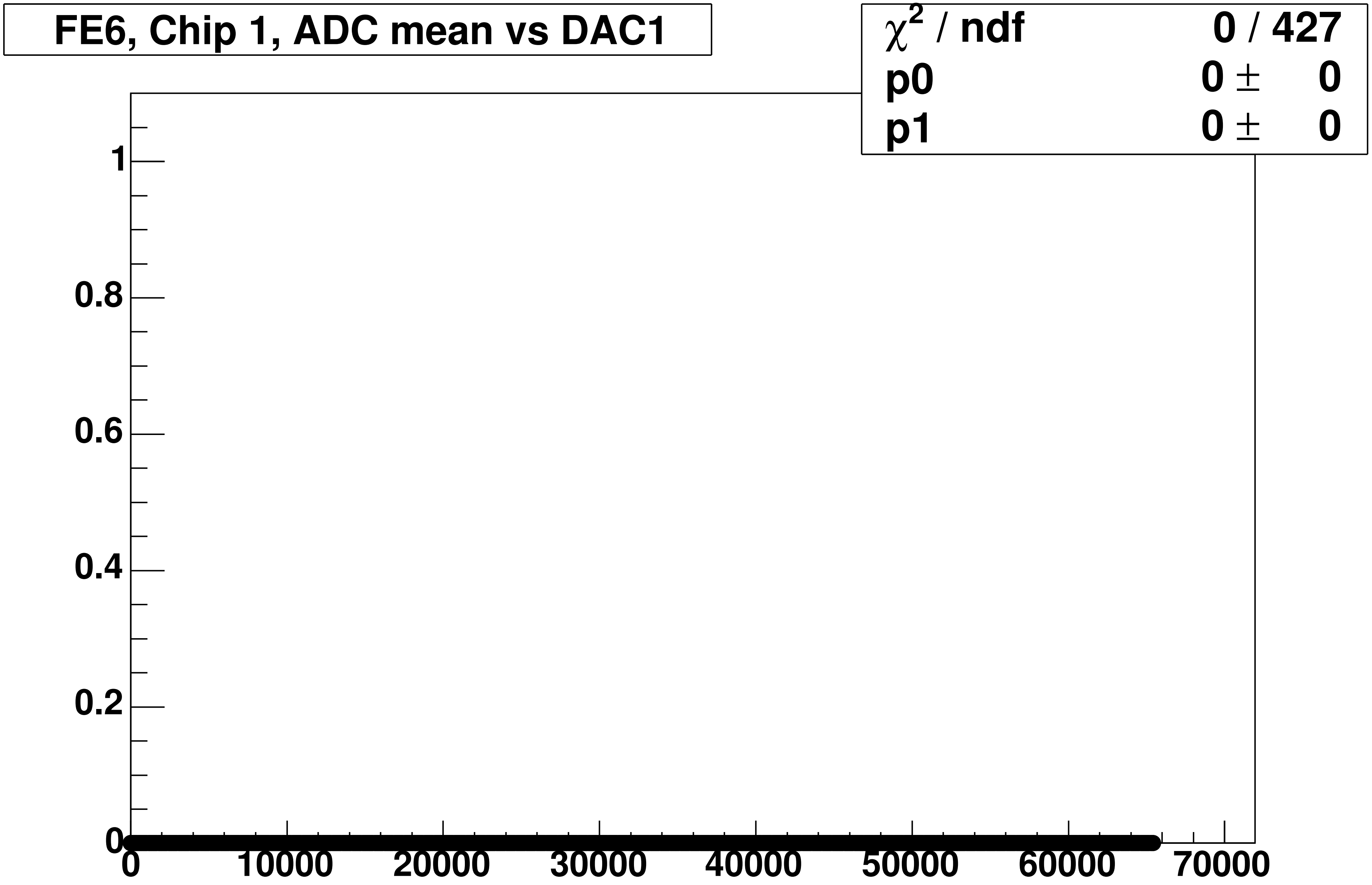


FE6, Chip 1, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

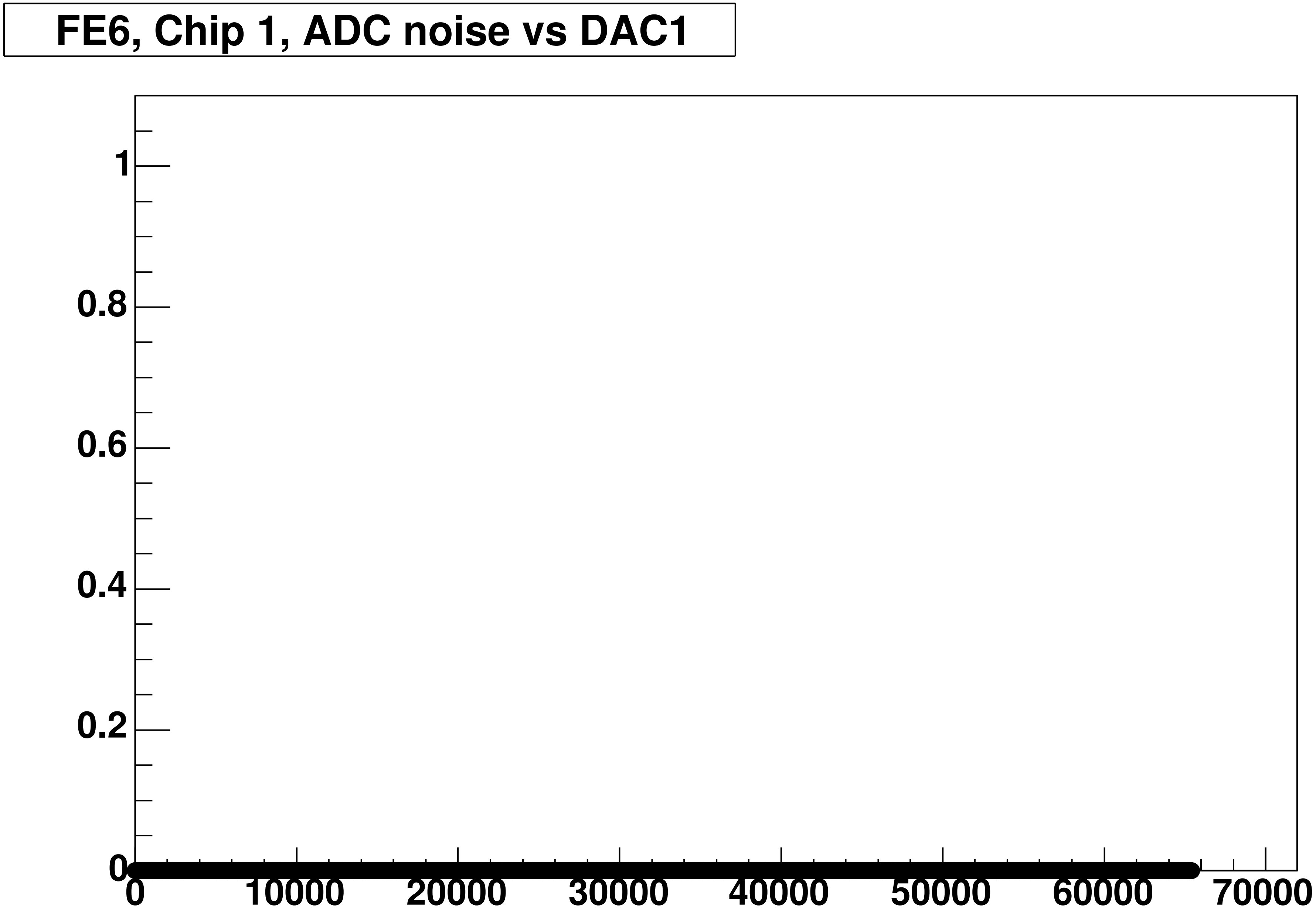

FE6, Chip 1, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

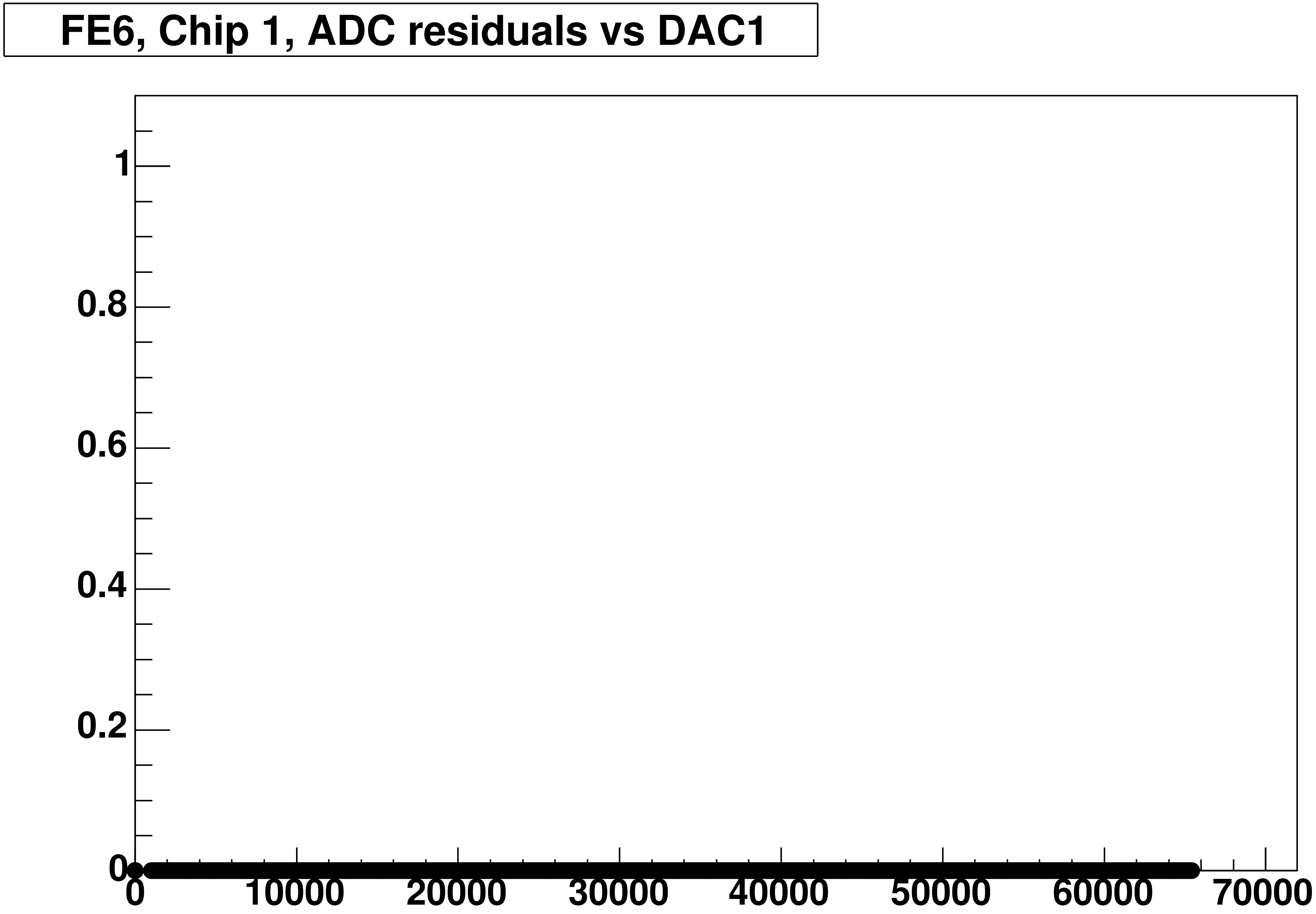


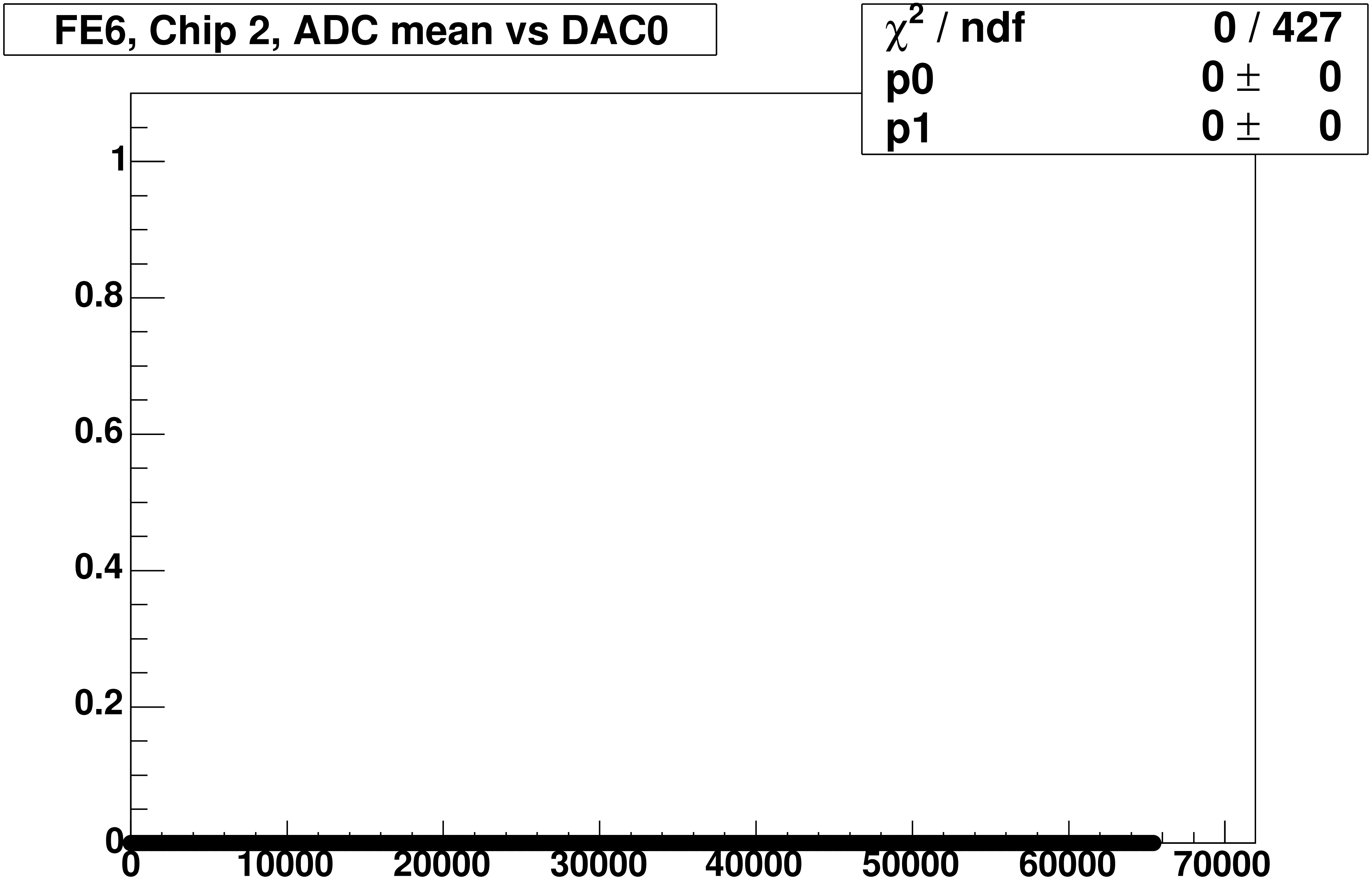
FE6, Chip 1, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



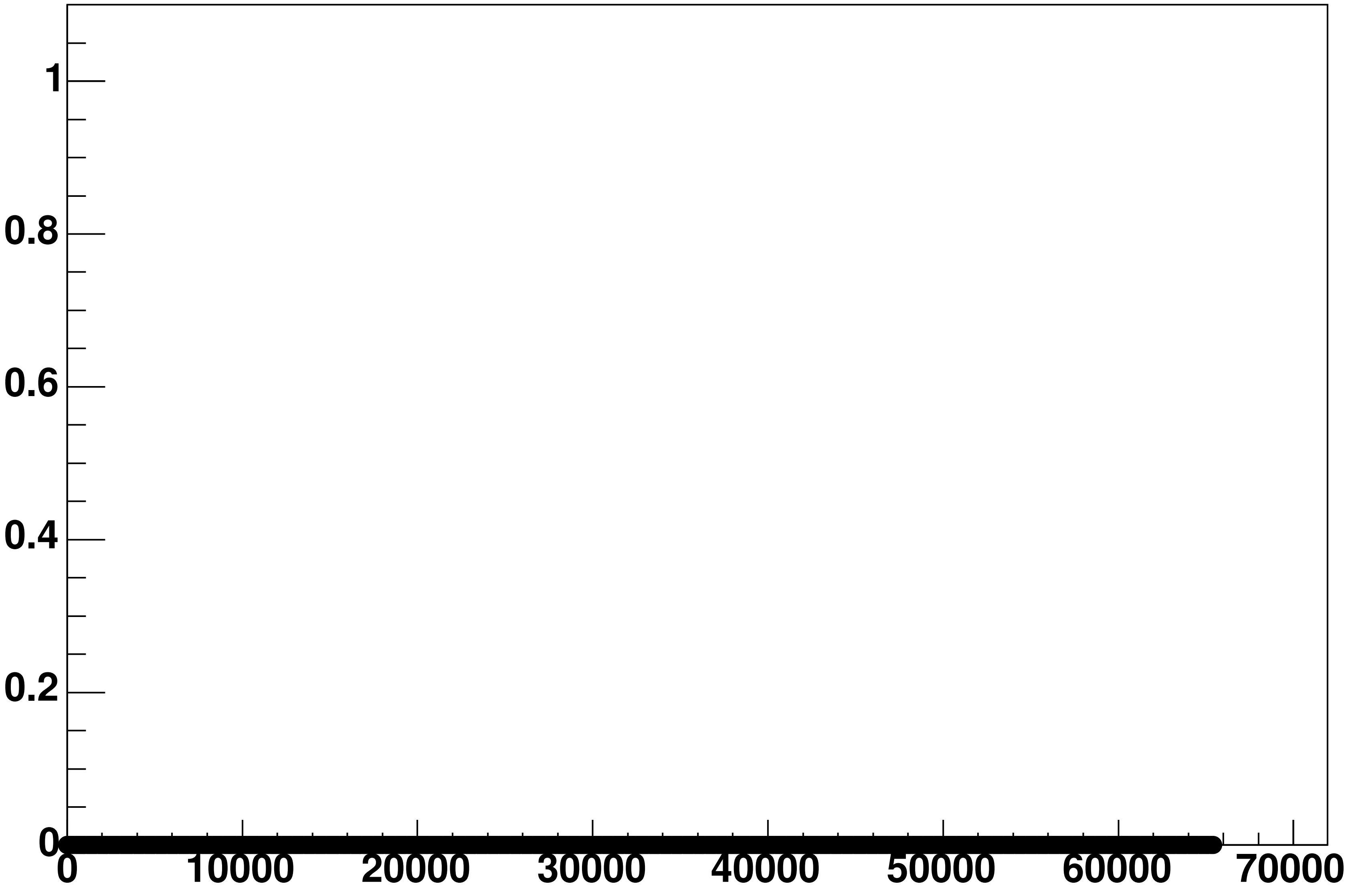
FE6, Chip 1, ADC mean vs DAC1
χ2 / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

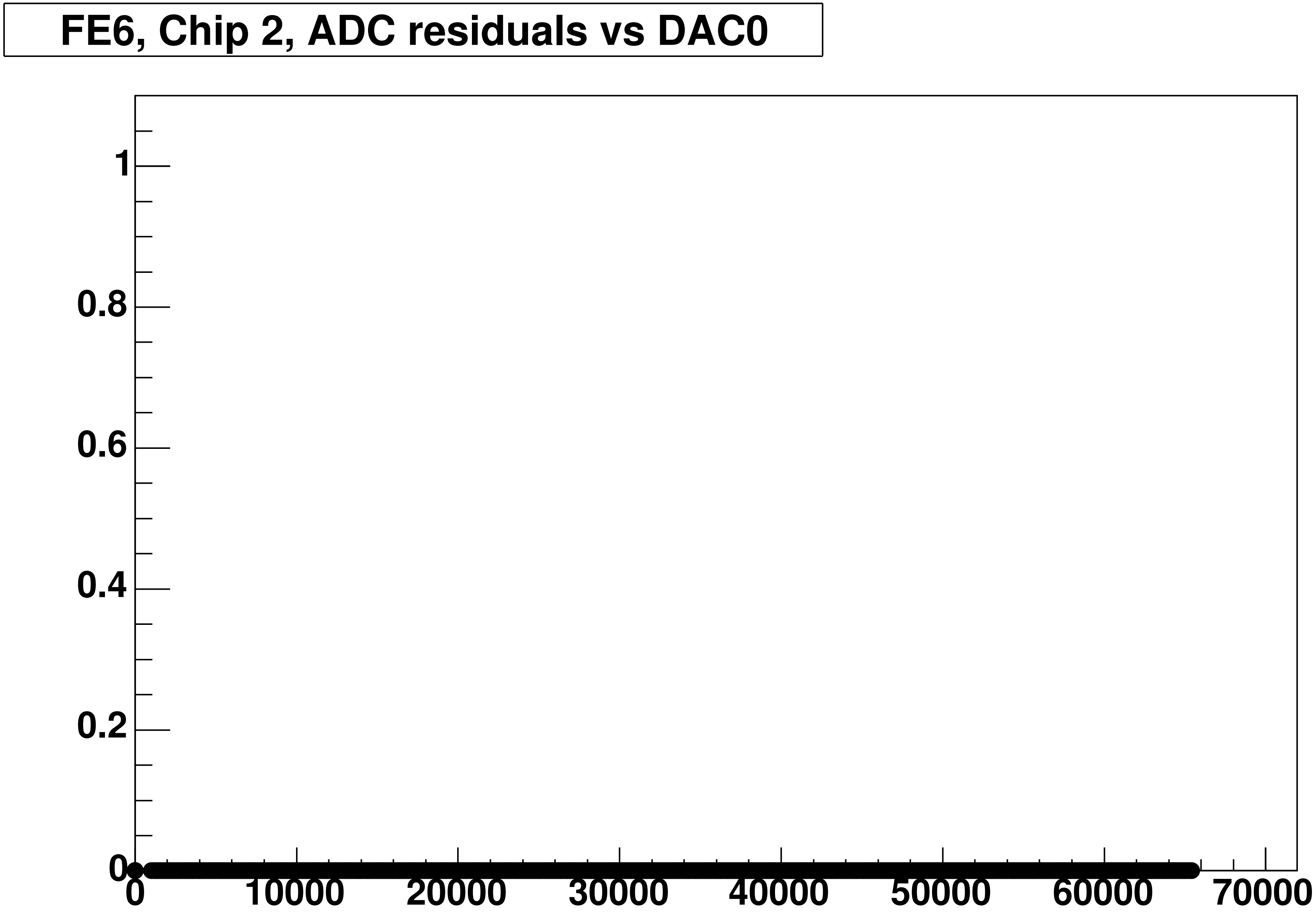

FE6, Chip 1, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 1, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

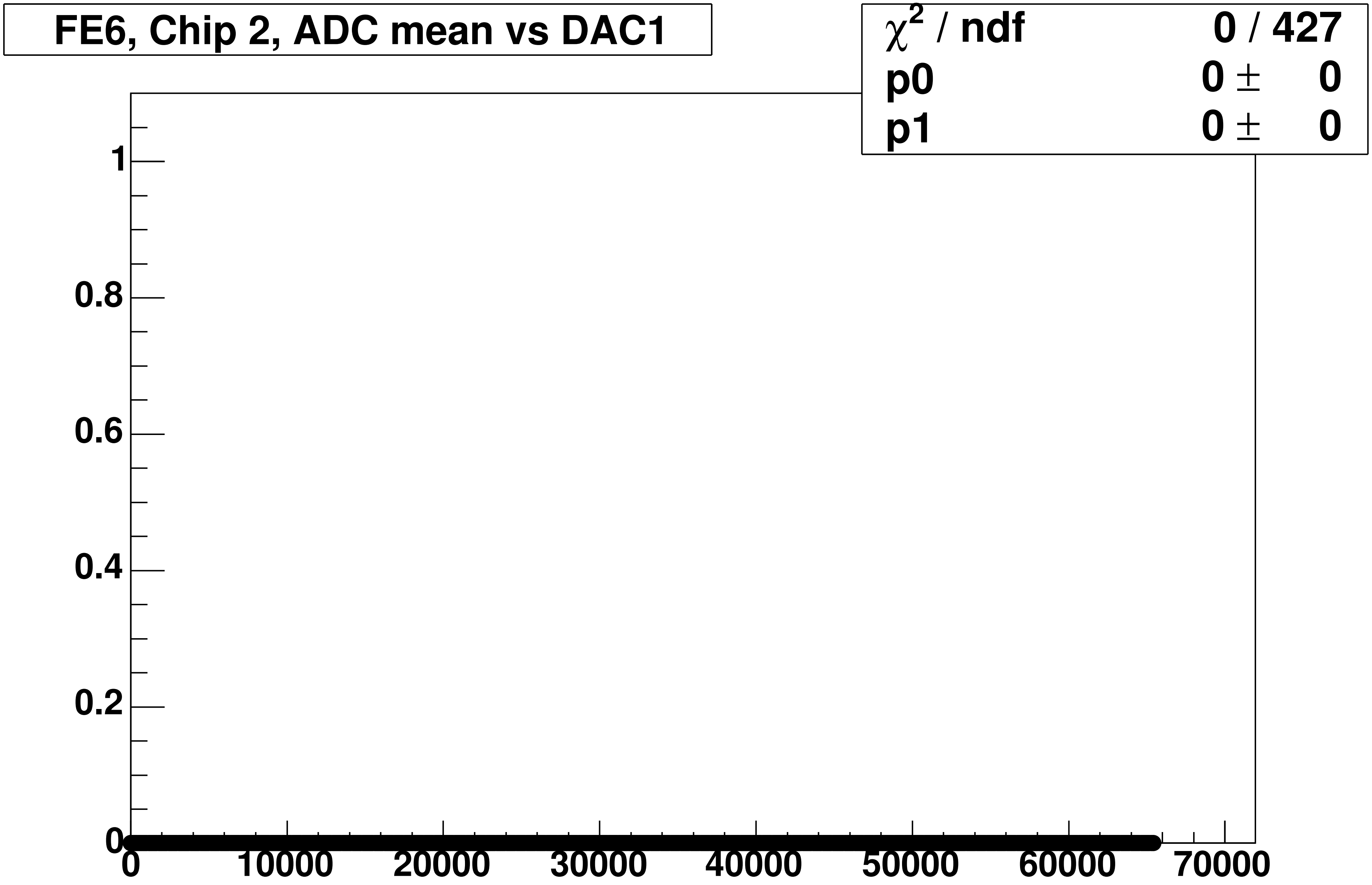

FE6, Chip 2, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

FE6, Chip 2, ADC noise vs DAC0

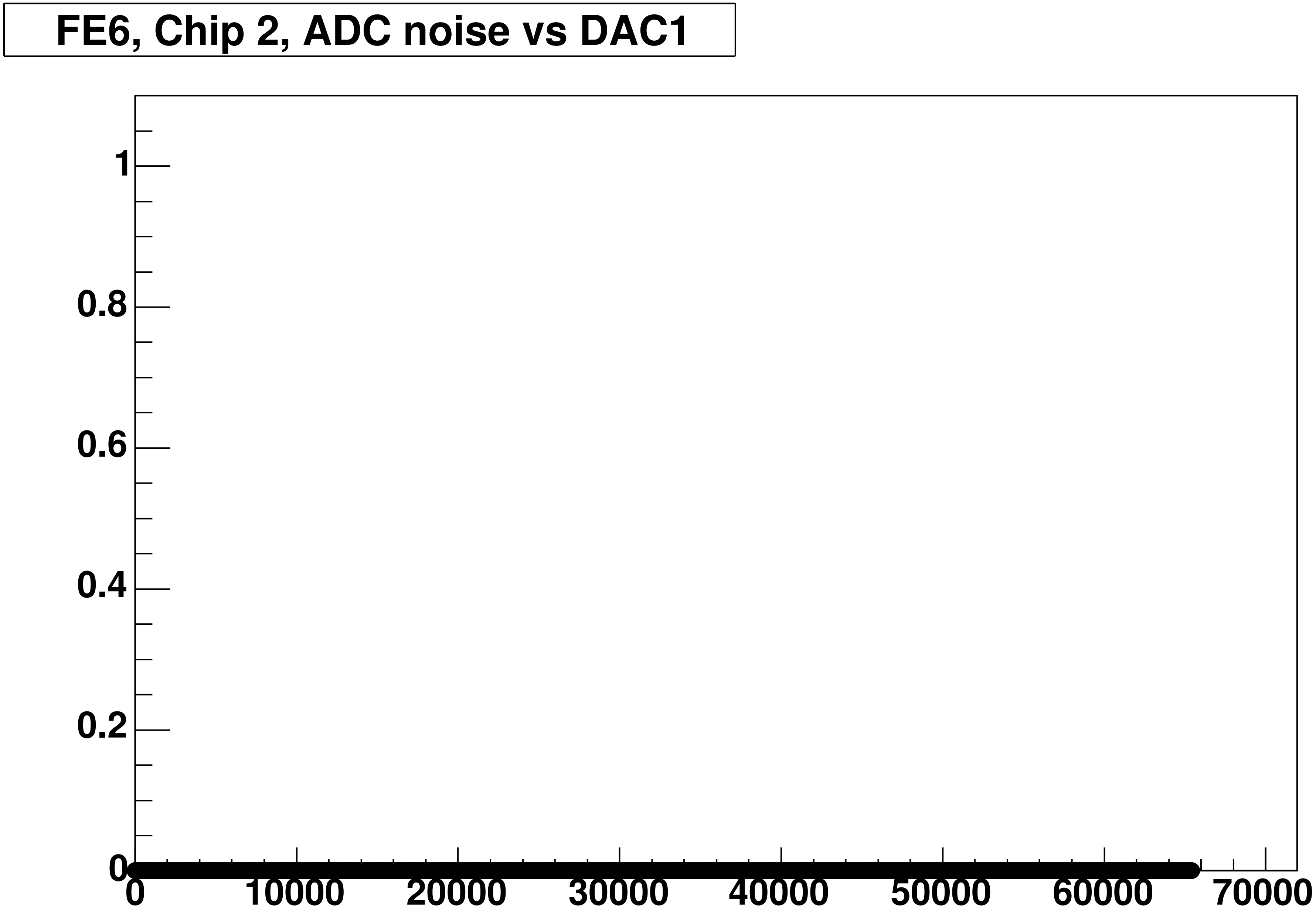


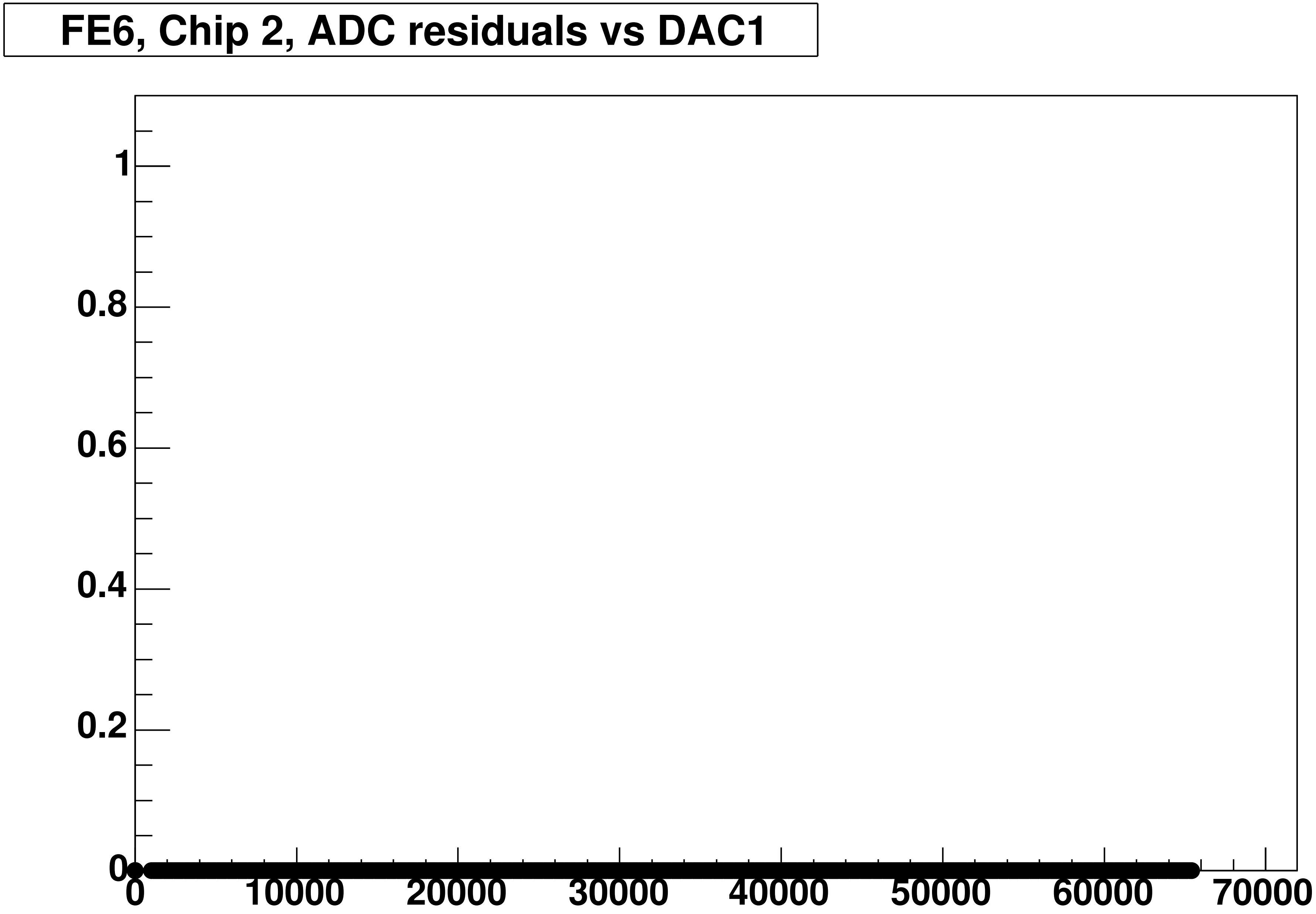


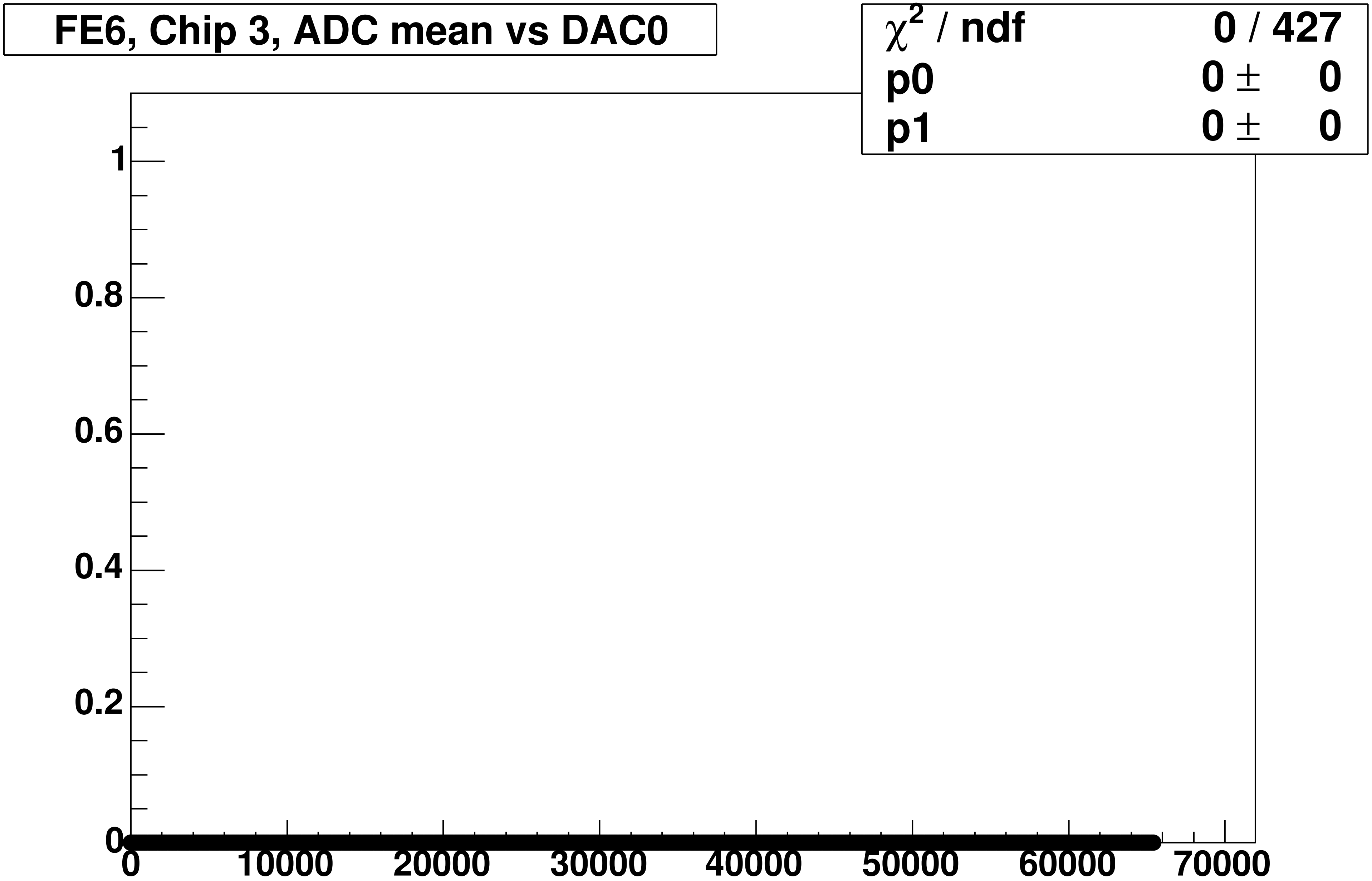
FE6, Chip 2, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



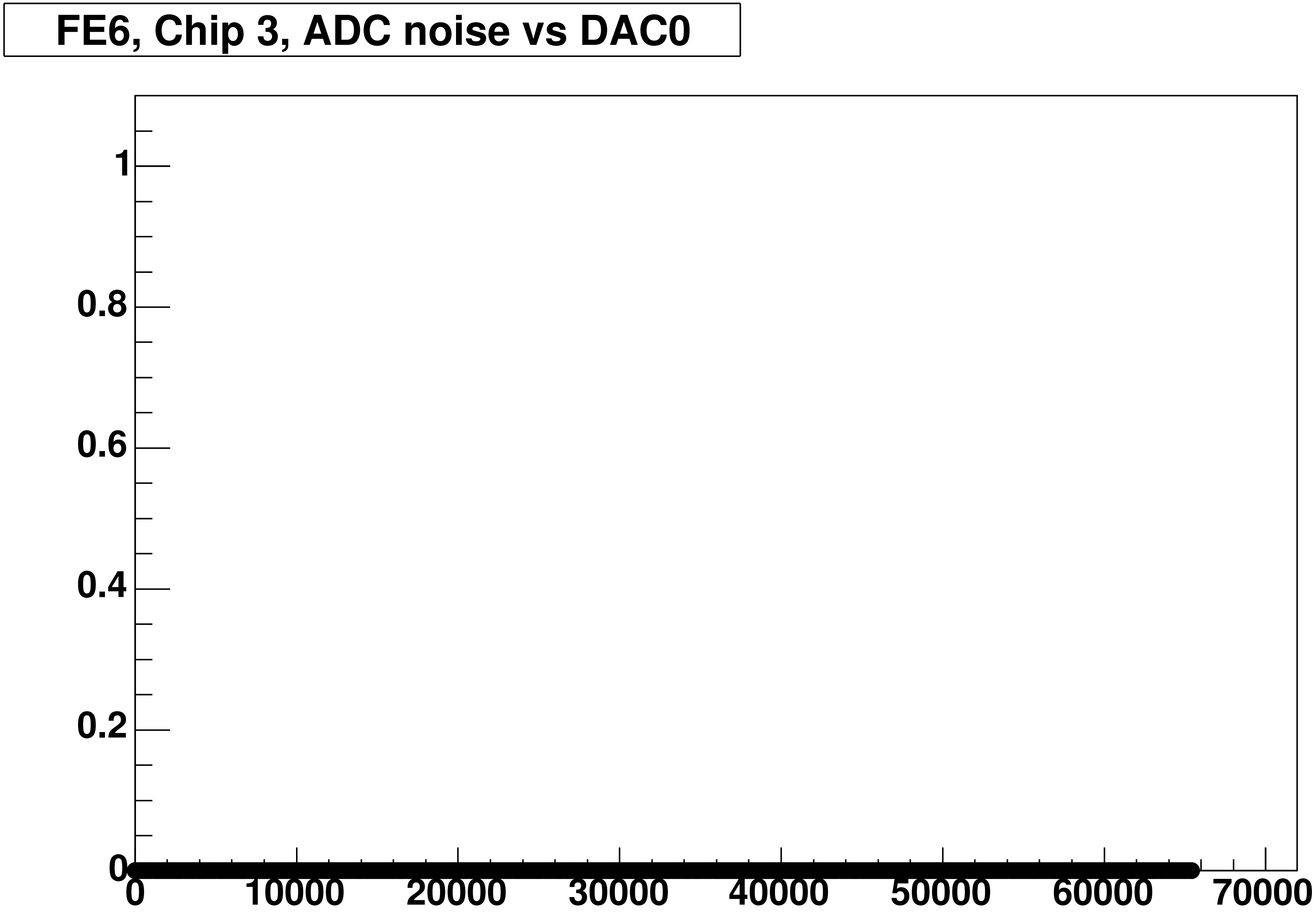
FE6, Chip 2, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 2, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

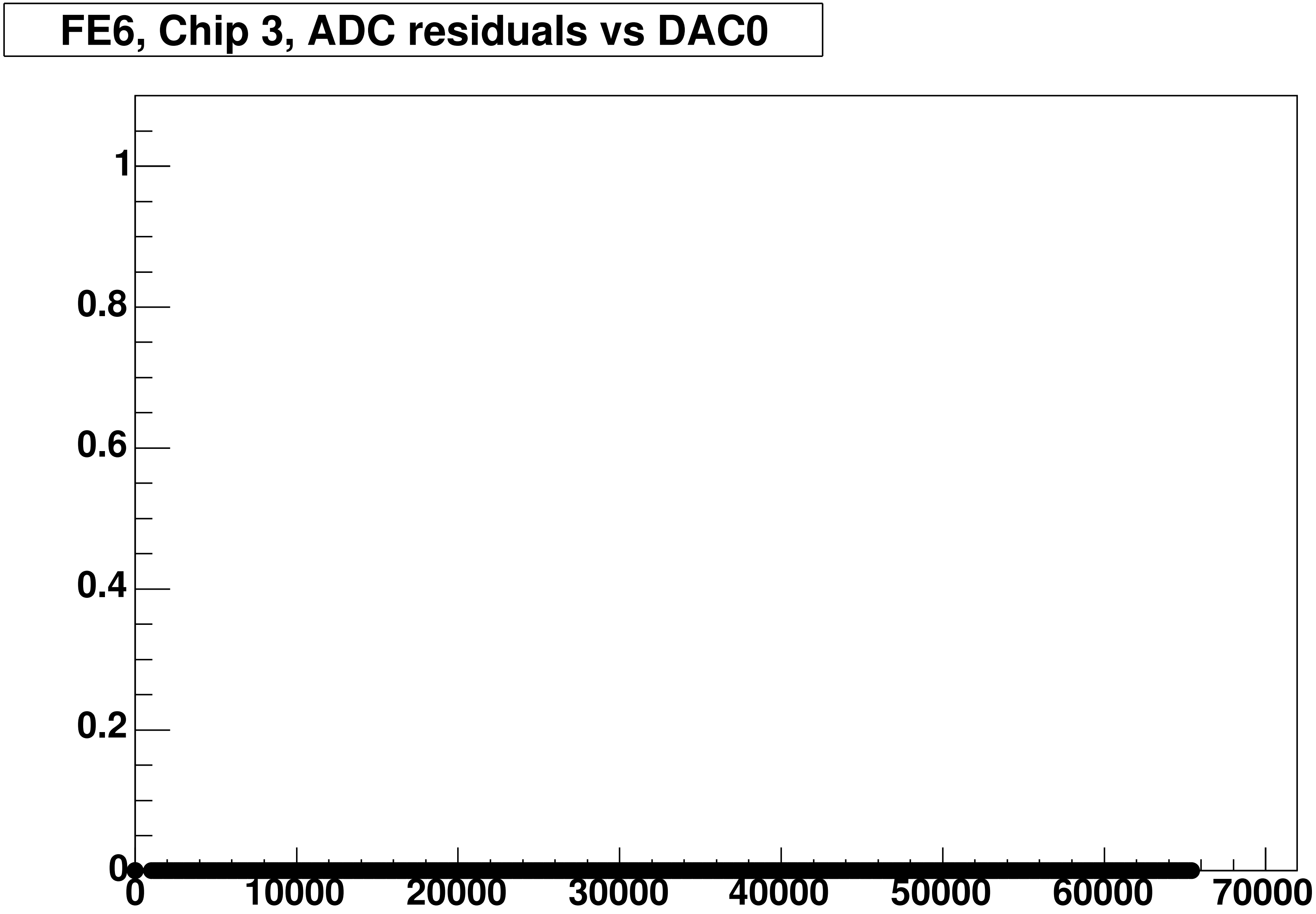

FE6, Chip 2, ADC residuals vs DAC1
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000



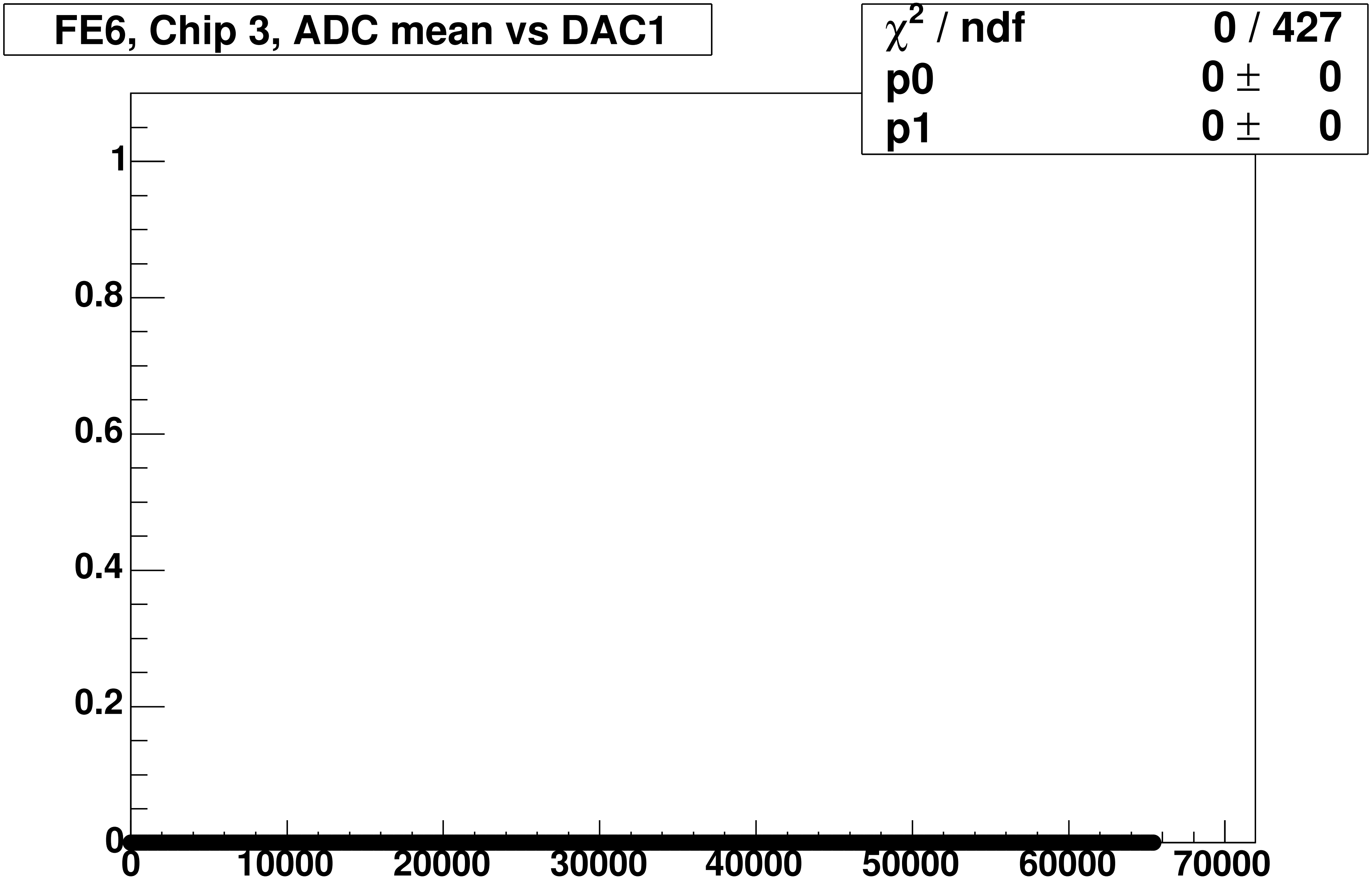
FE6, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

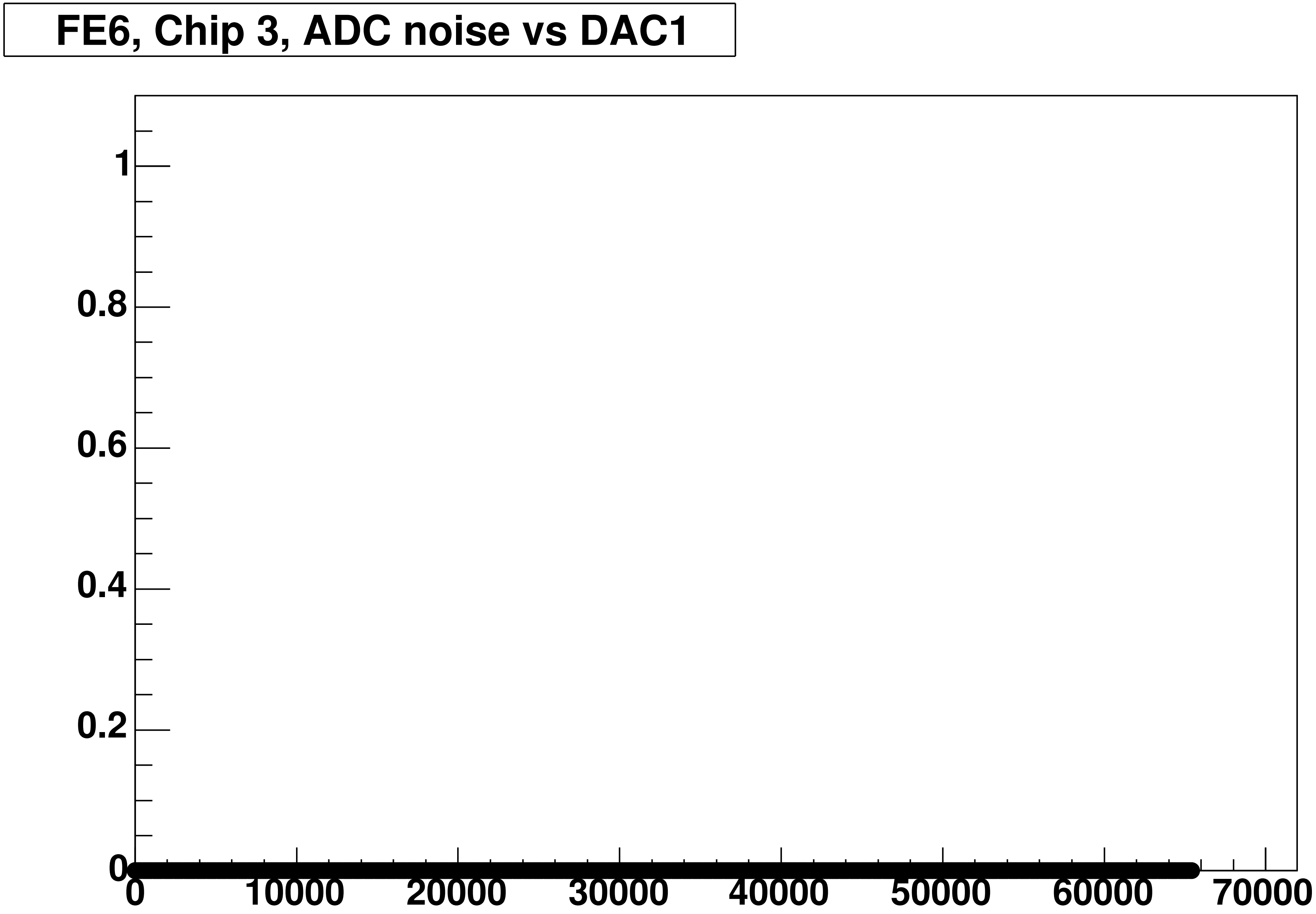


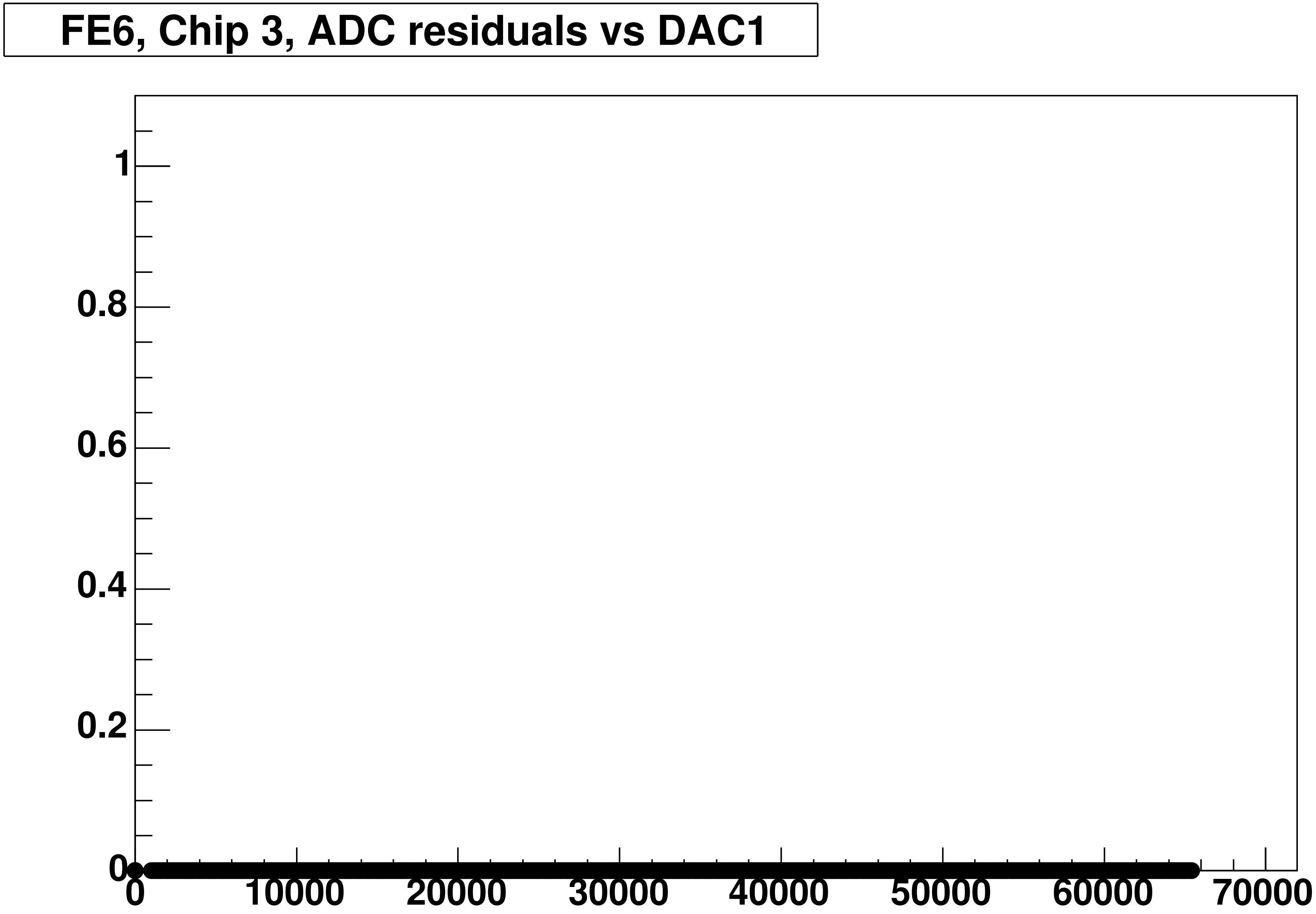
FE6, Chip 3, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

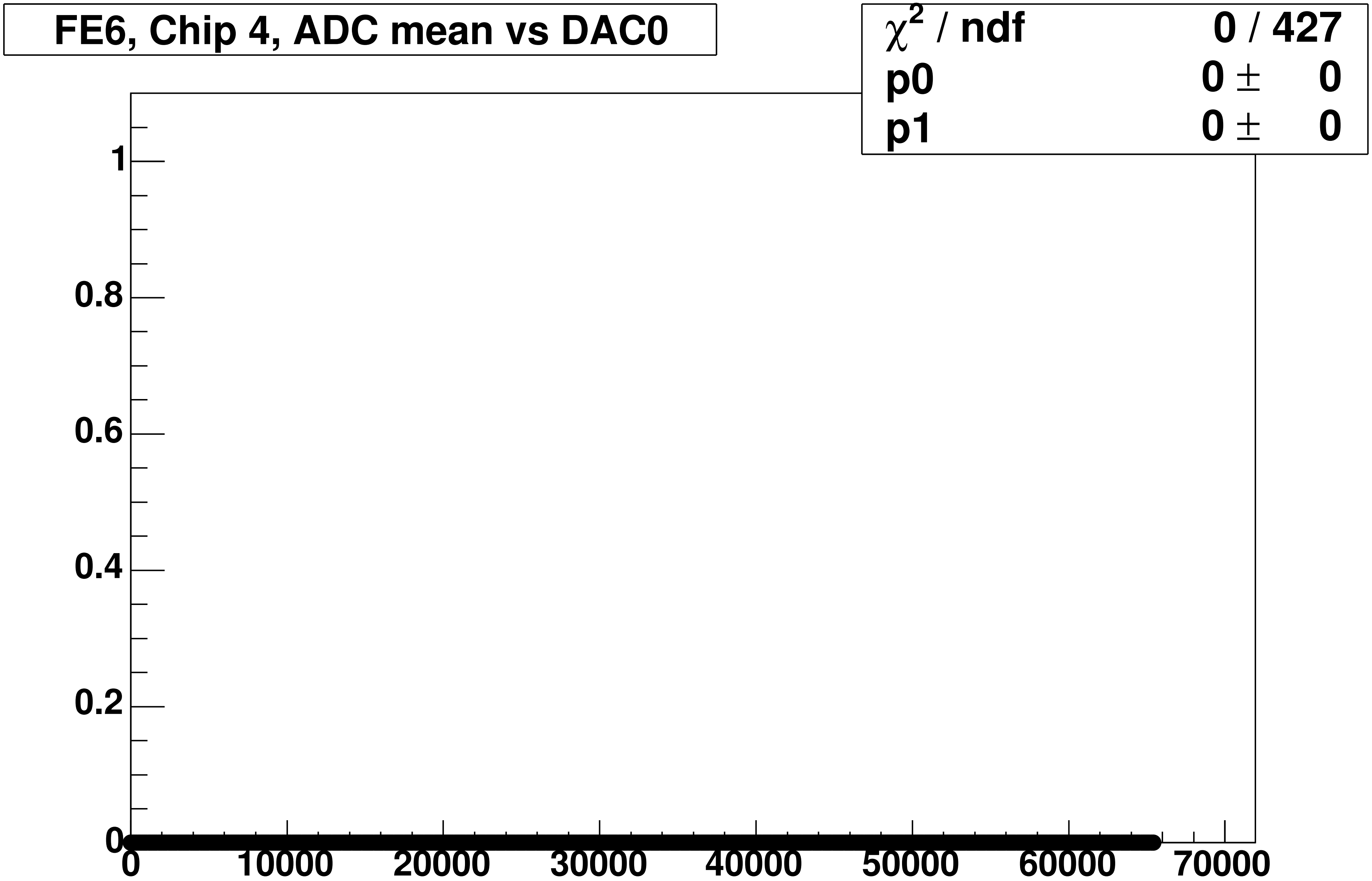


FE6, Chip 3, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

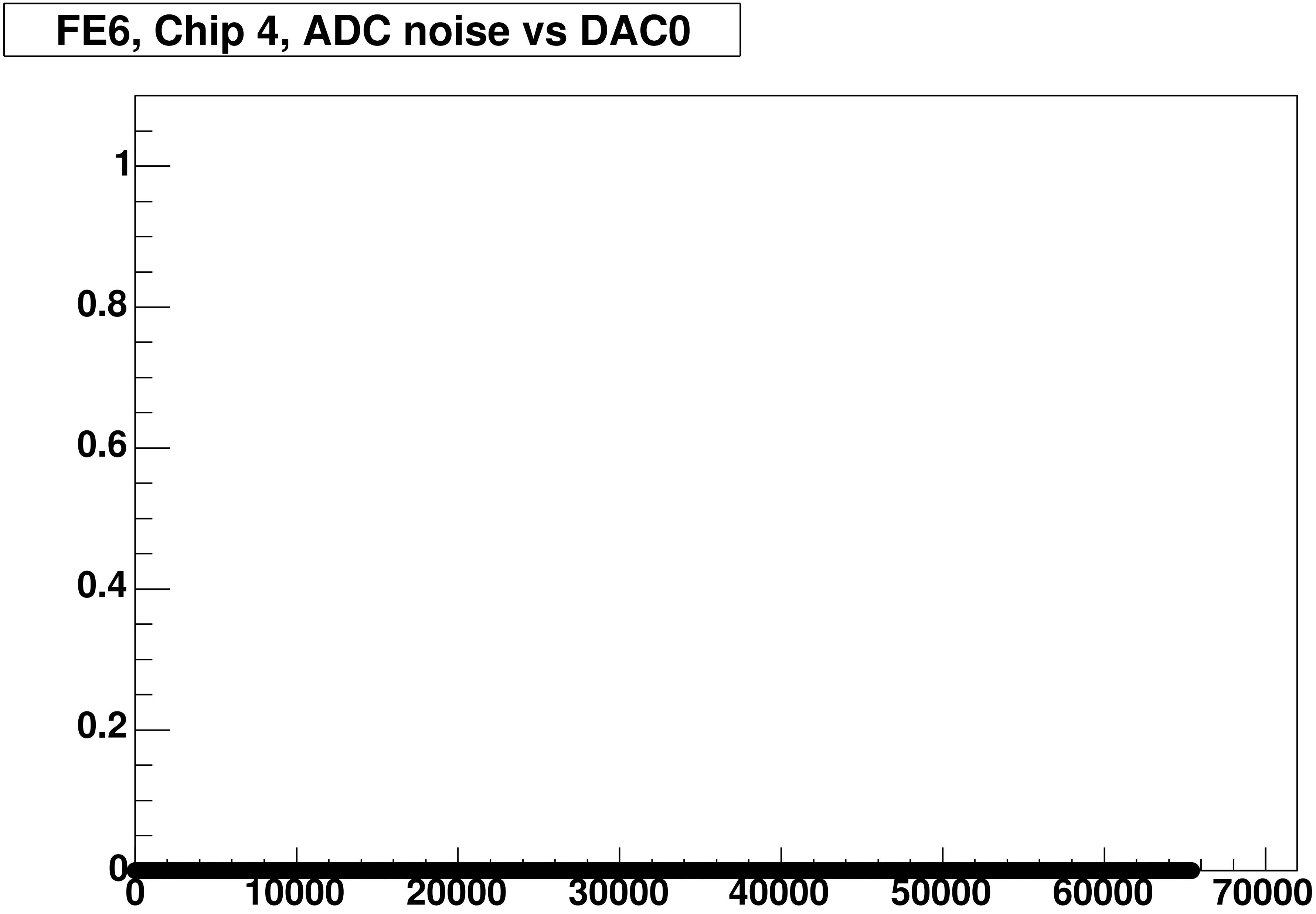

FE6, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

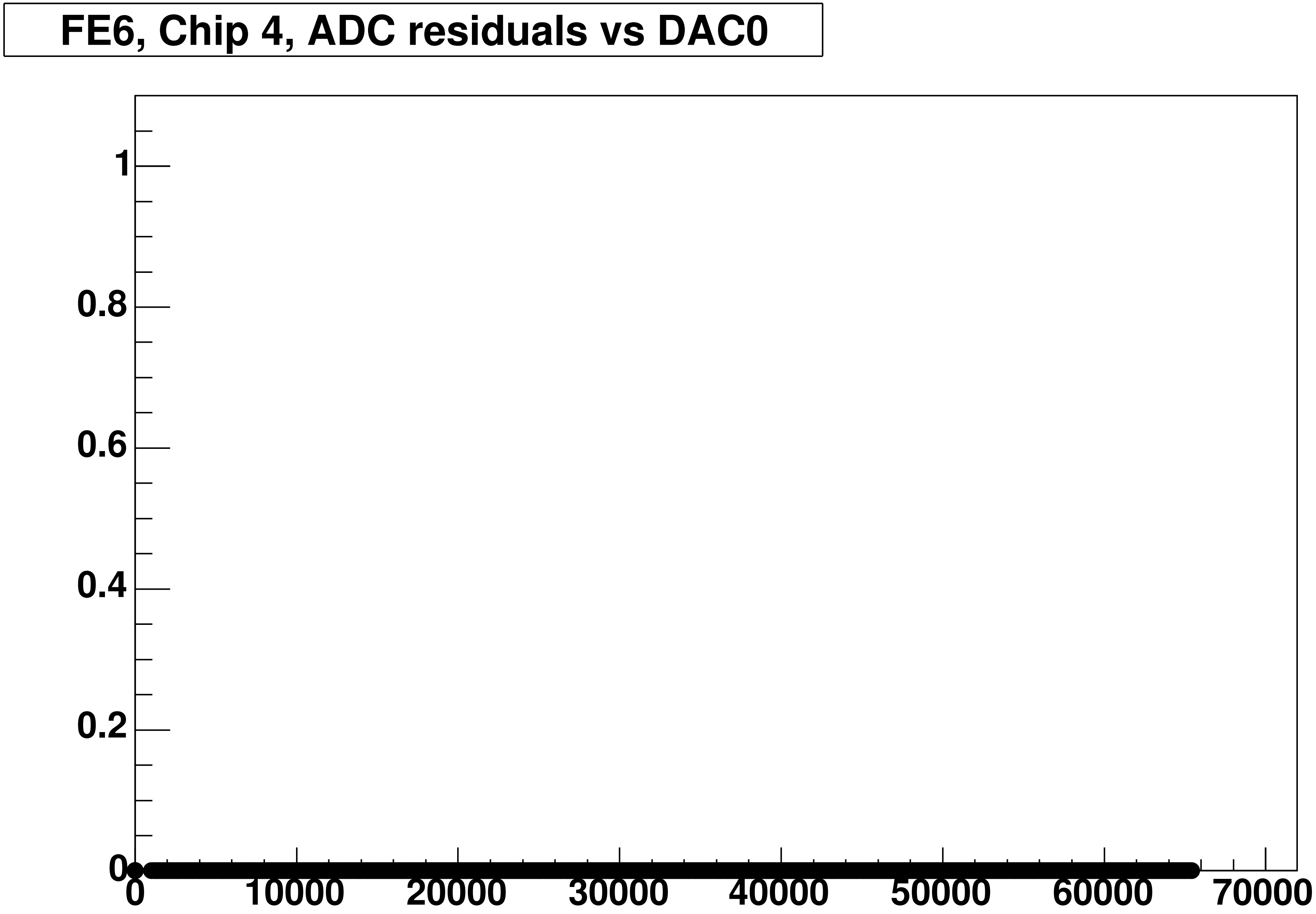

FE6, Chip 3, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 3, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

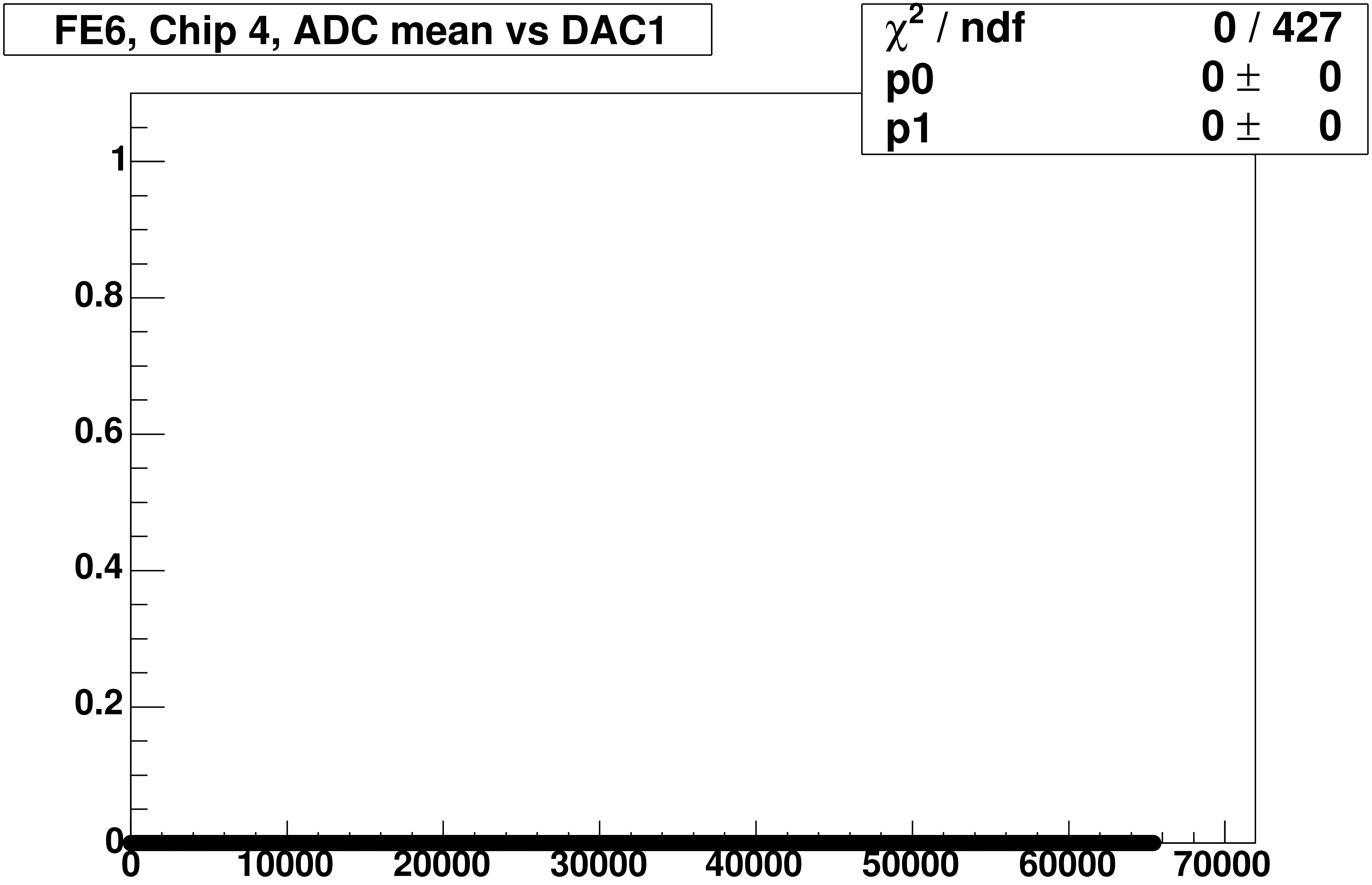


FE6, Chip 4, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 4, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

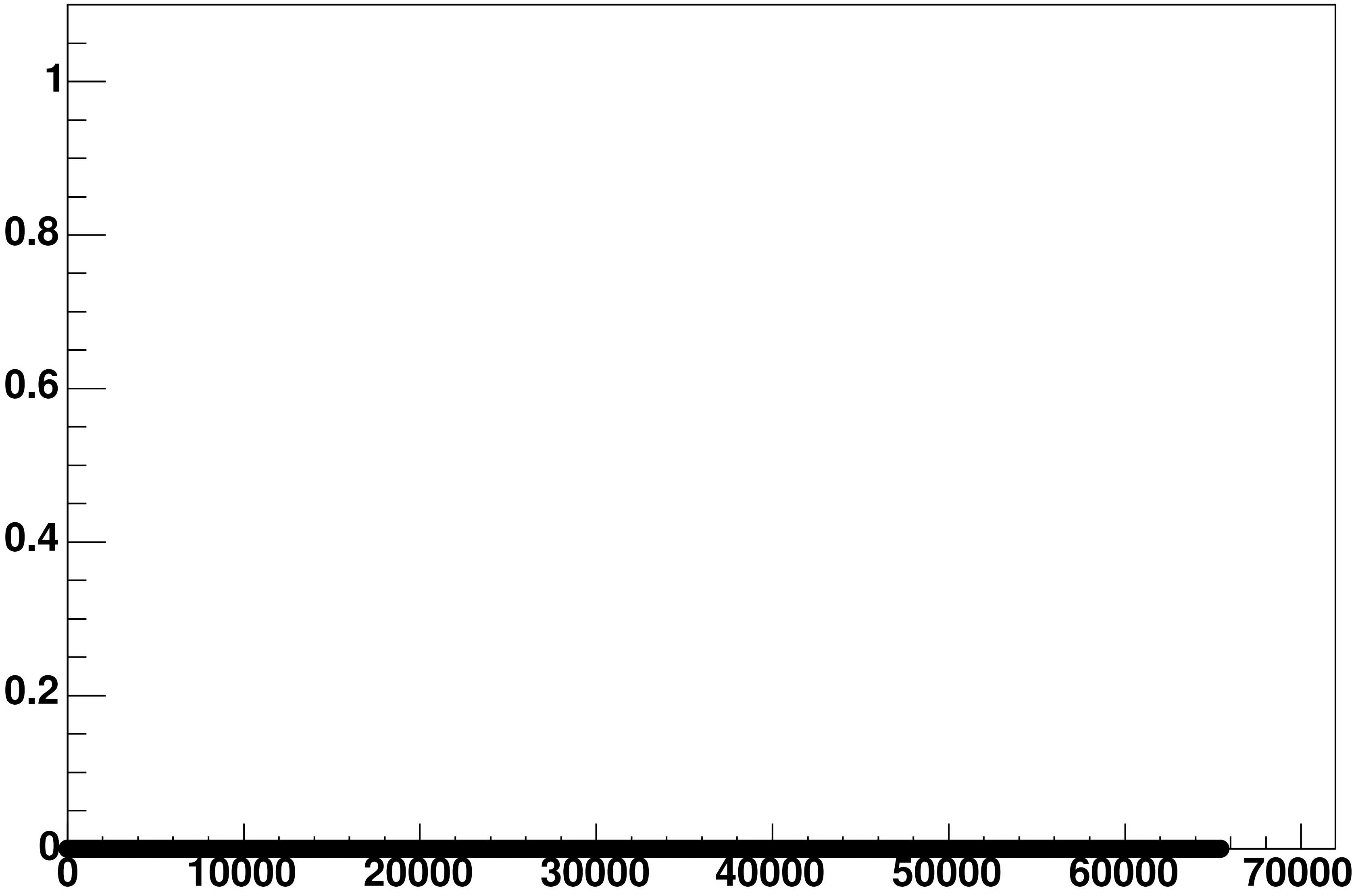


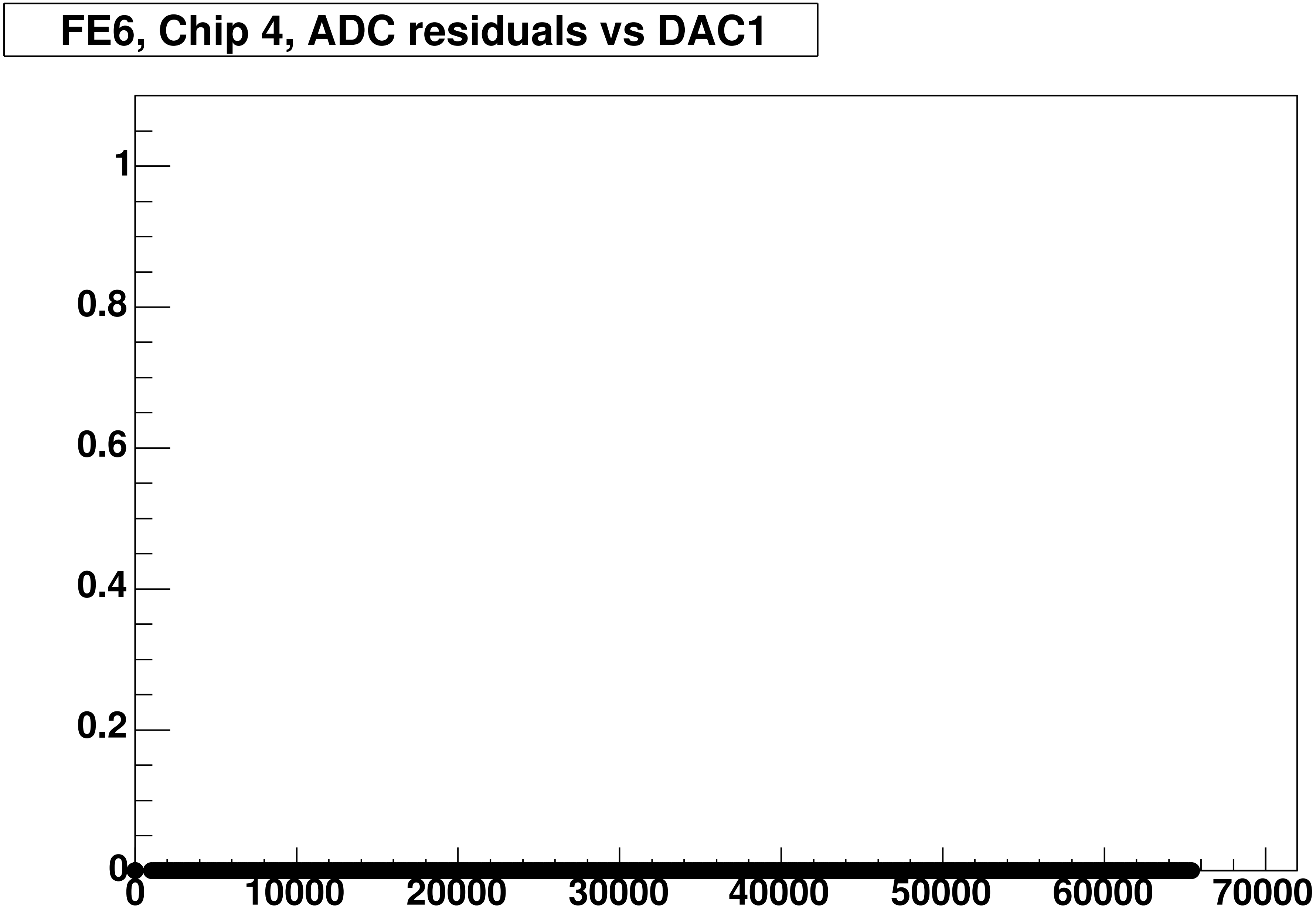
FE6, Chip 4, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

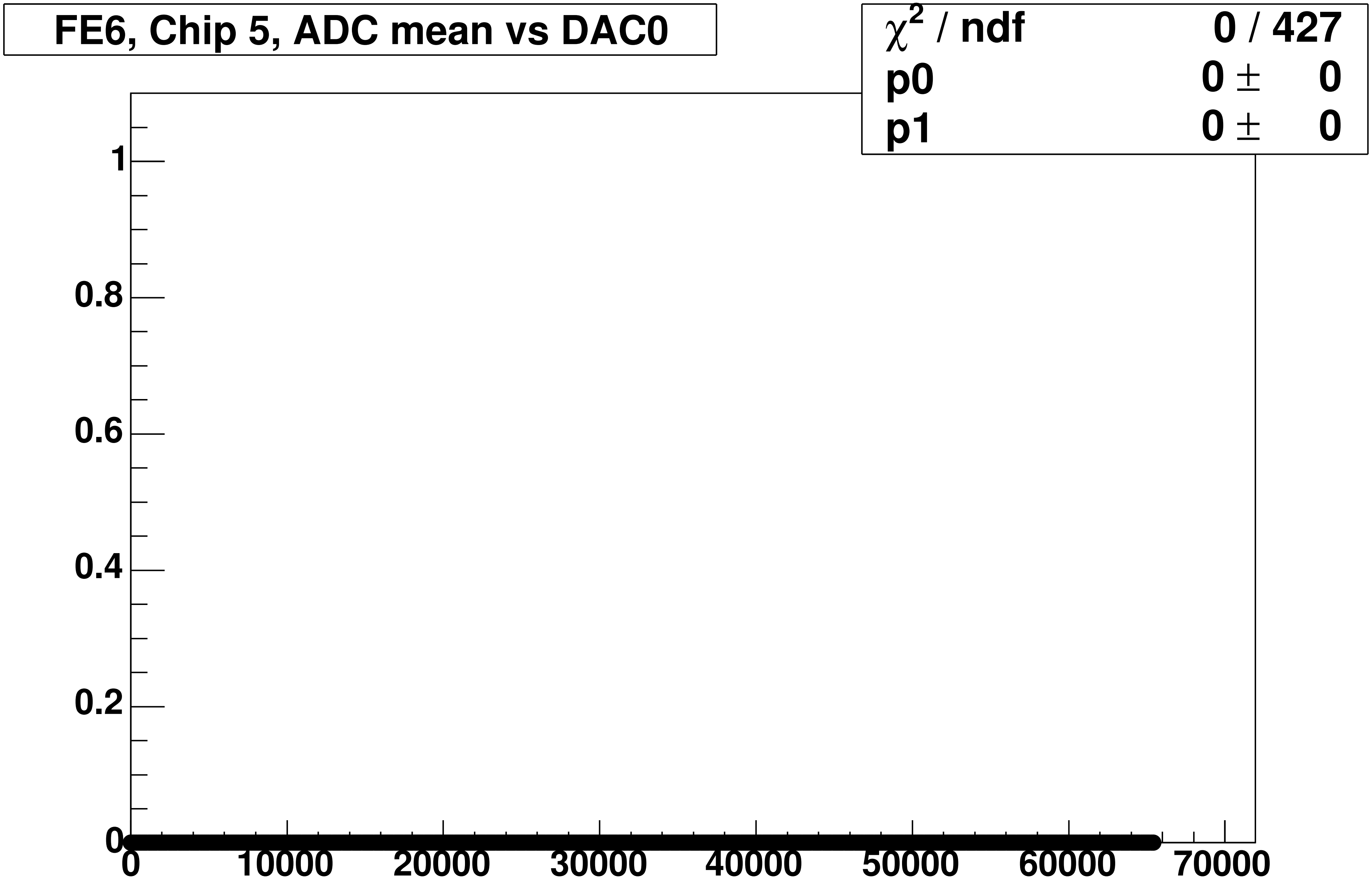


FE6, Chip 4, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

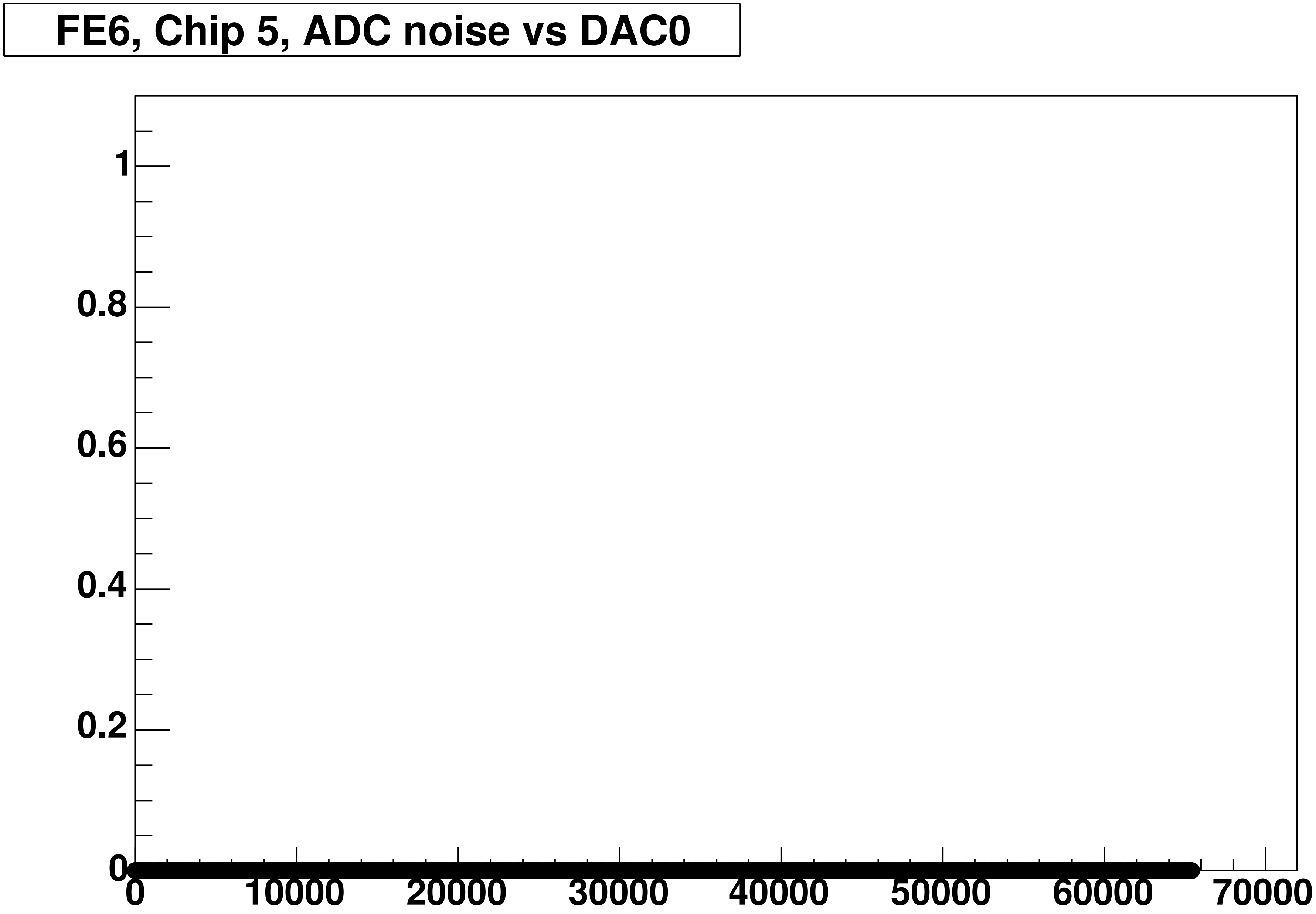
FE6, Chip 4, ADC noise vs DAC1

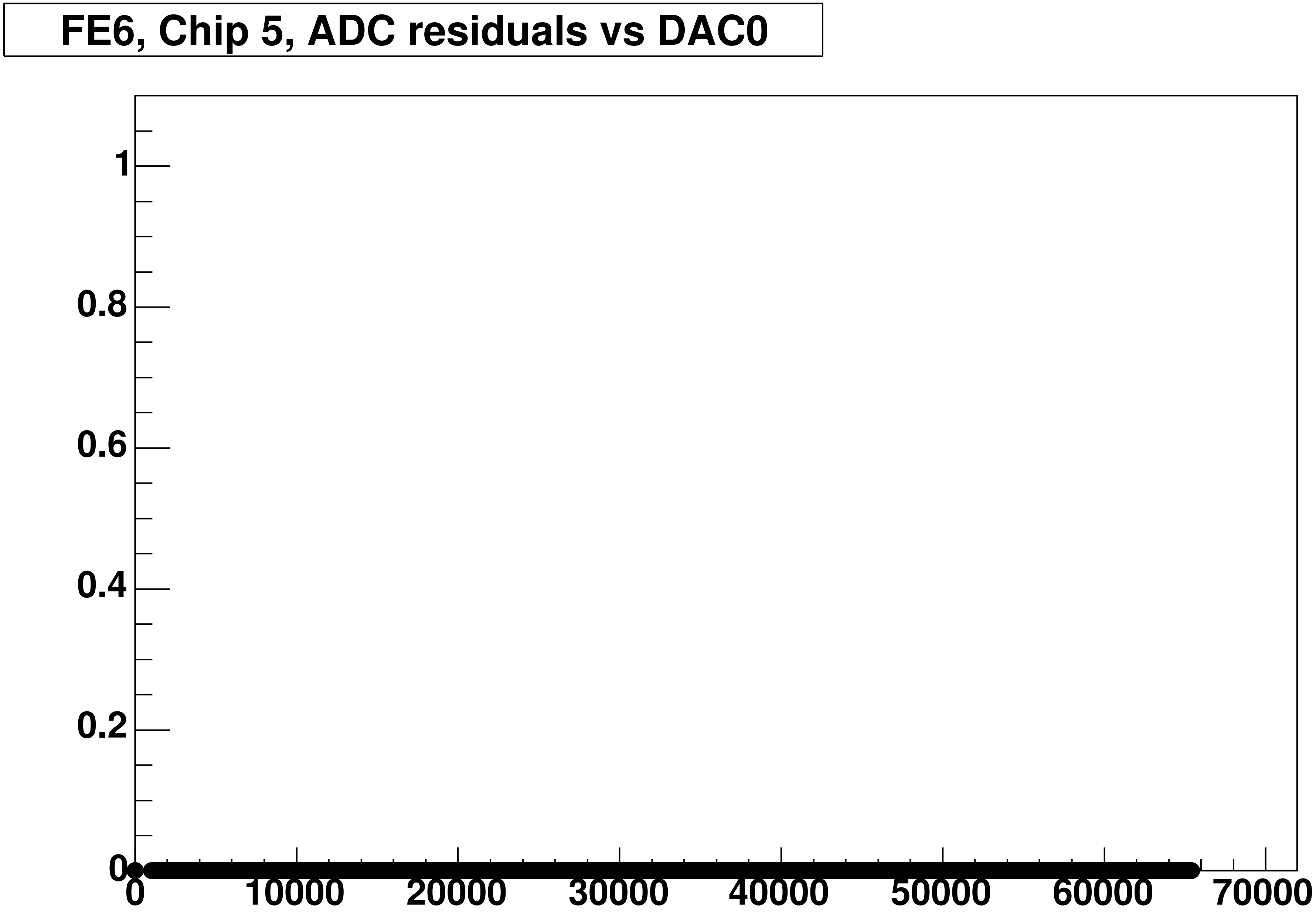


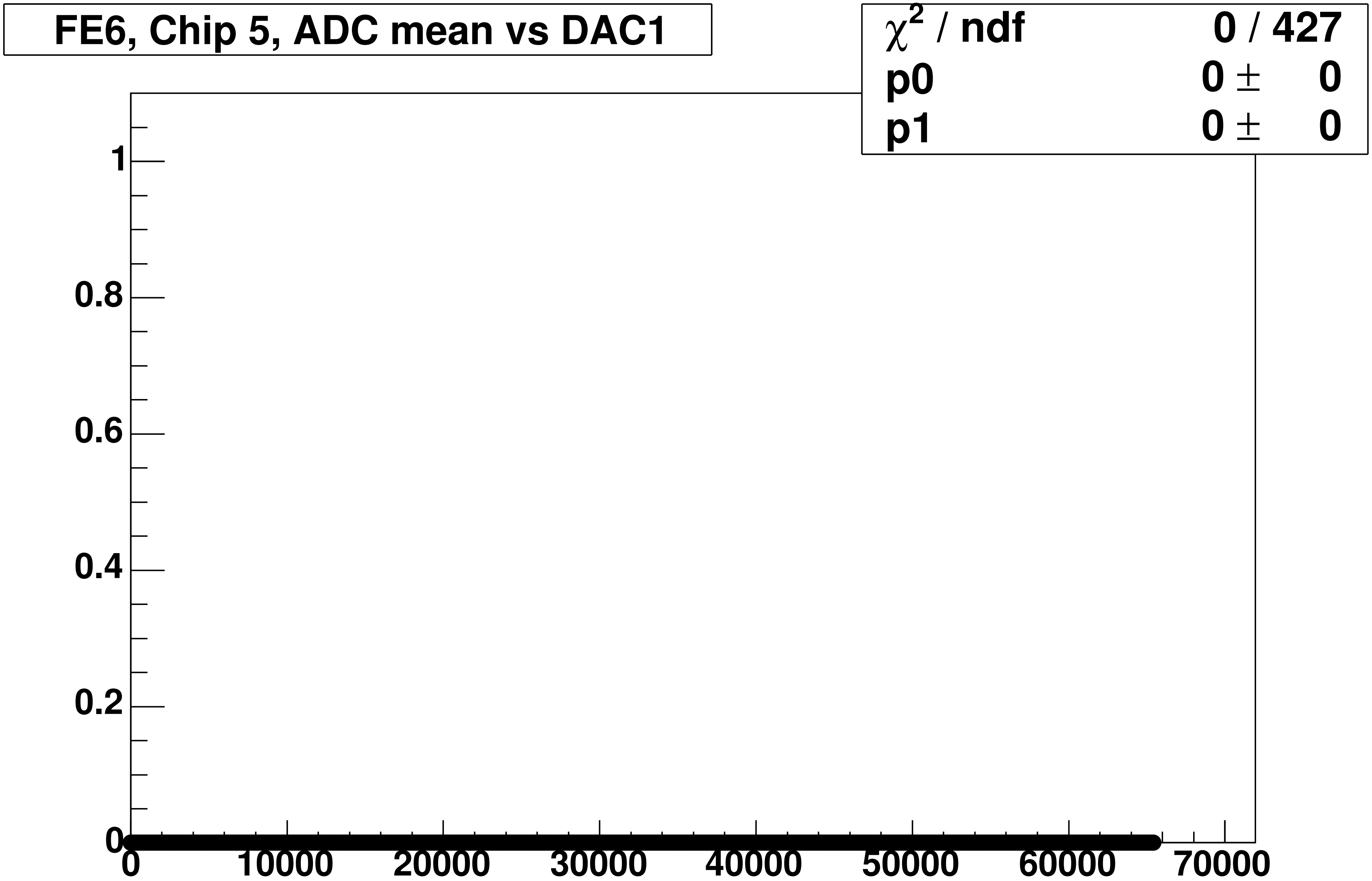

FE6, Chip 4, ADC residuals vs DAC1
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000



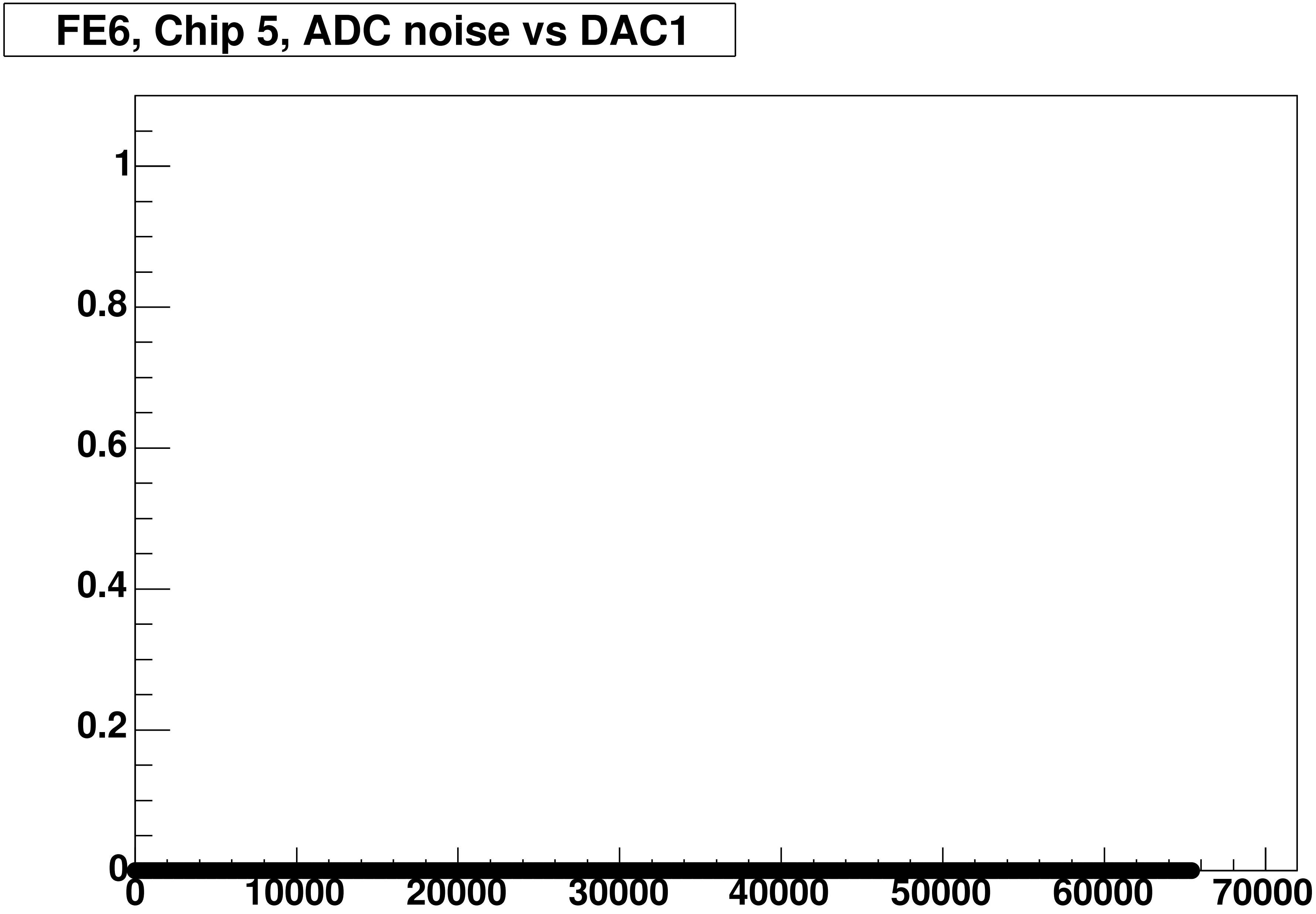
FE6, Chip 5, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

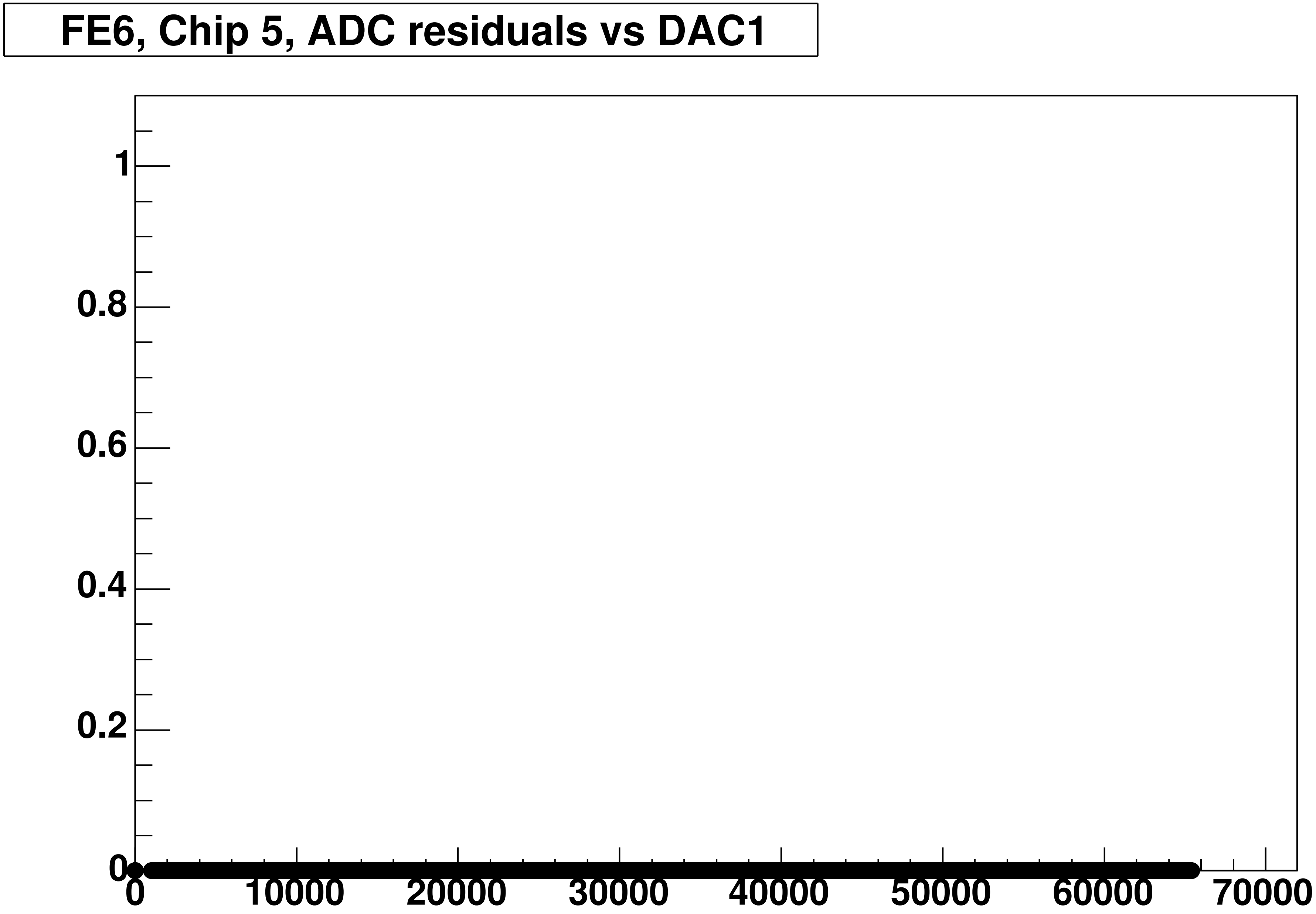

FE6, Chip 5, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

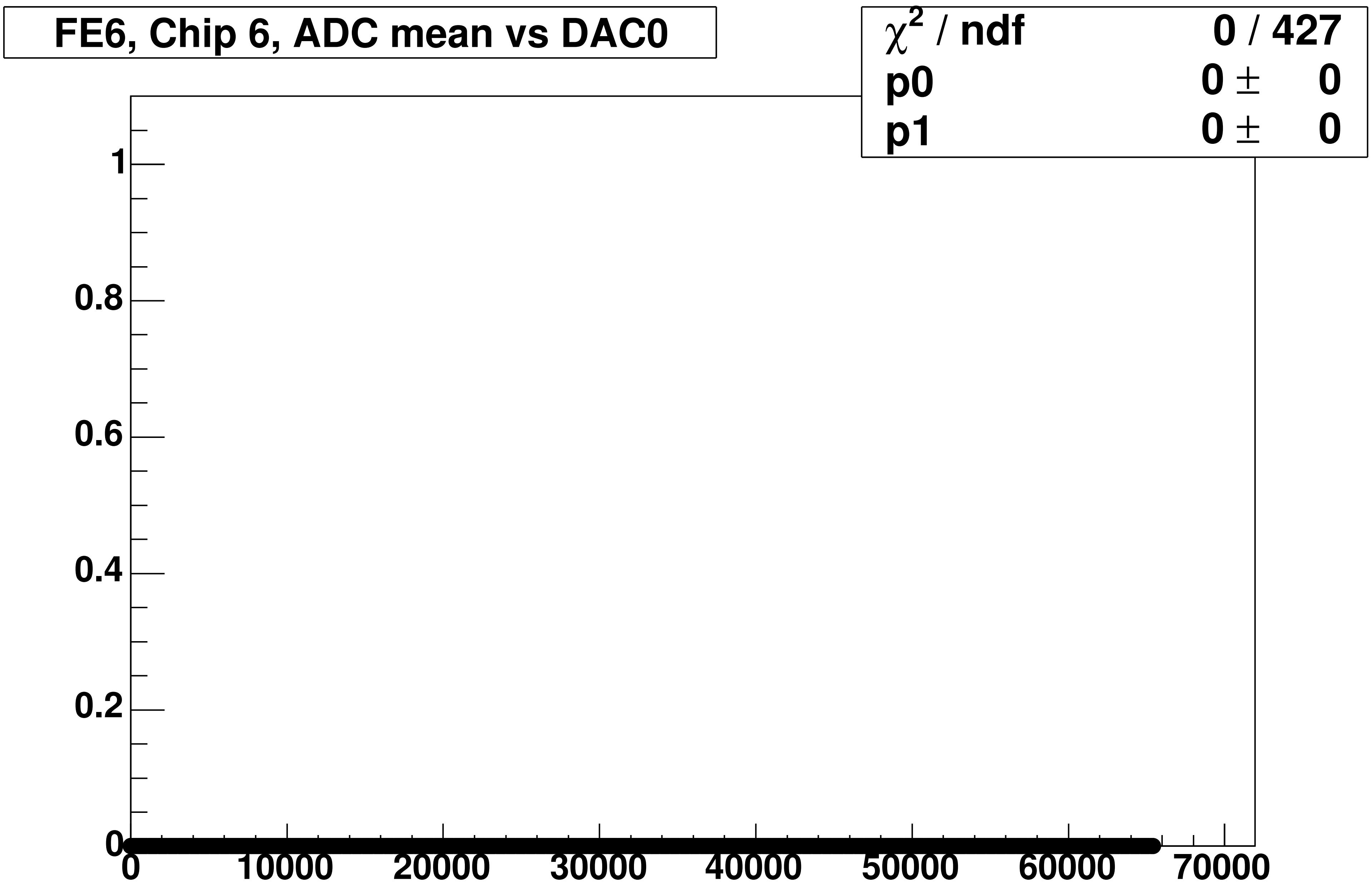

FE6, Chip 5, ADC residuals vs DAC0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

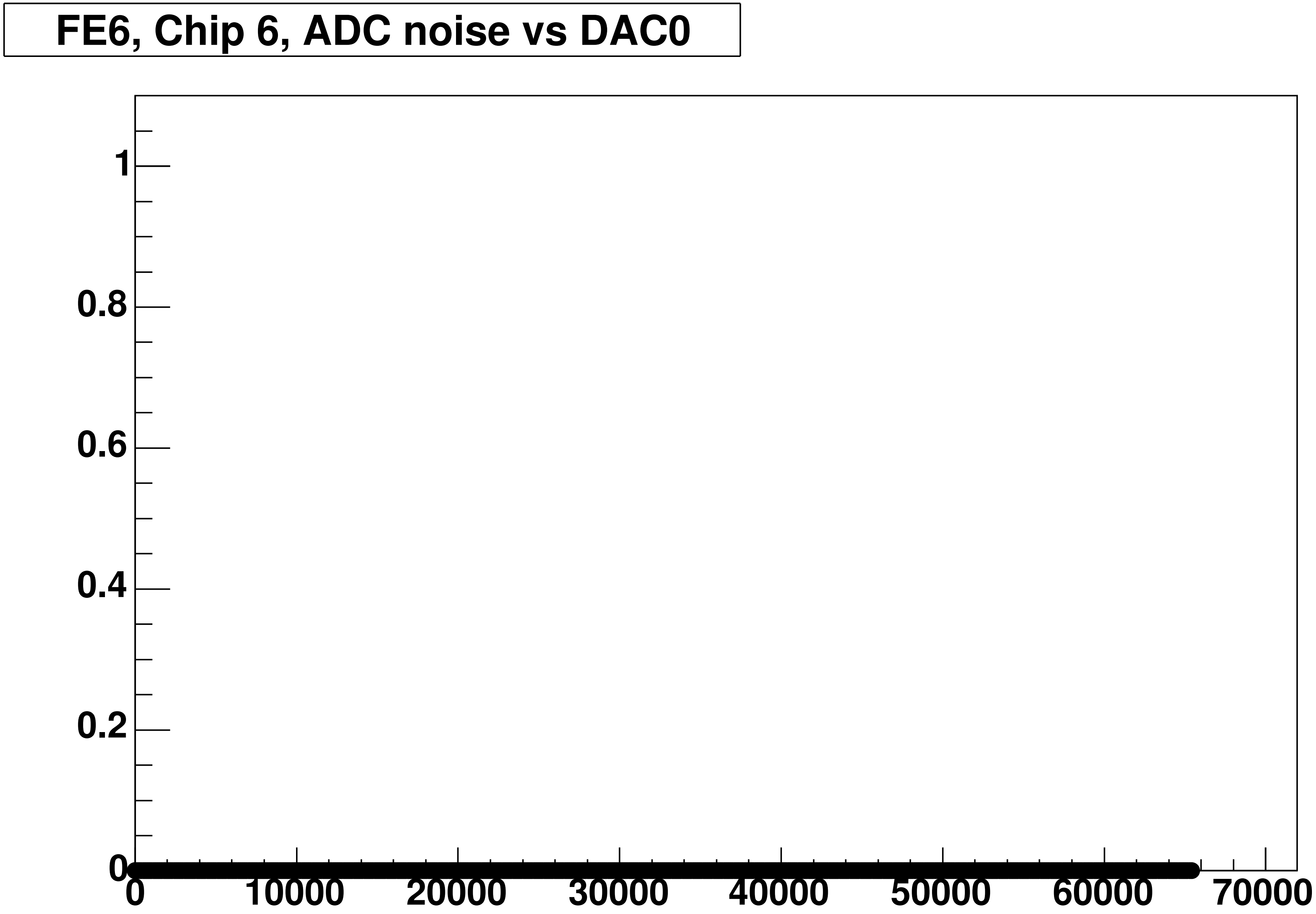


FE6, Chip 5, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

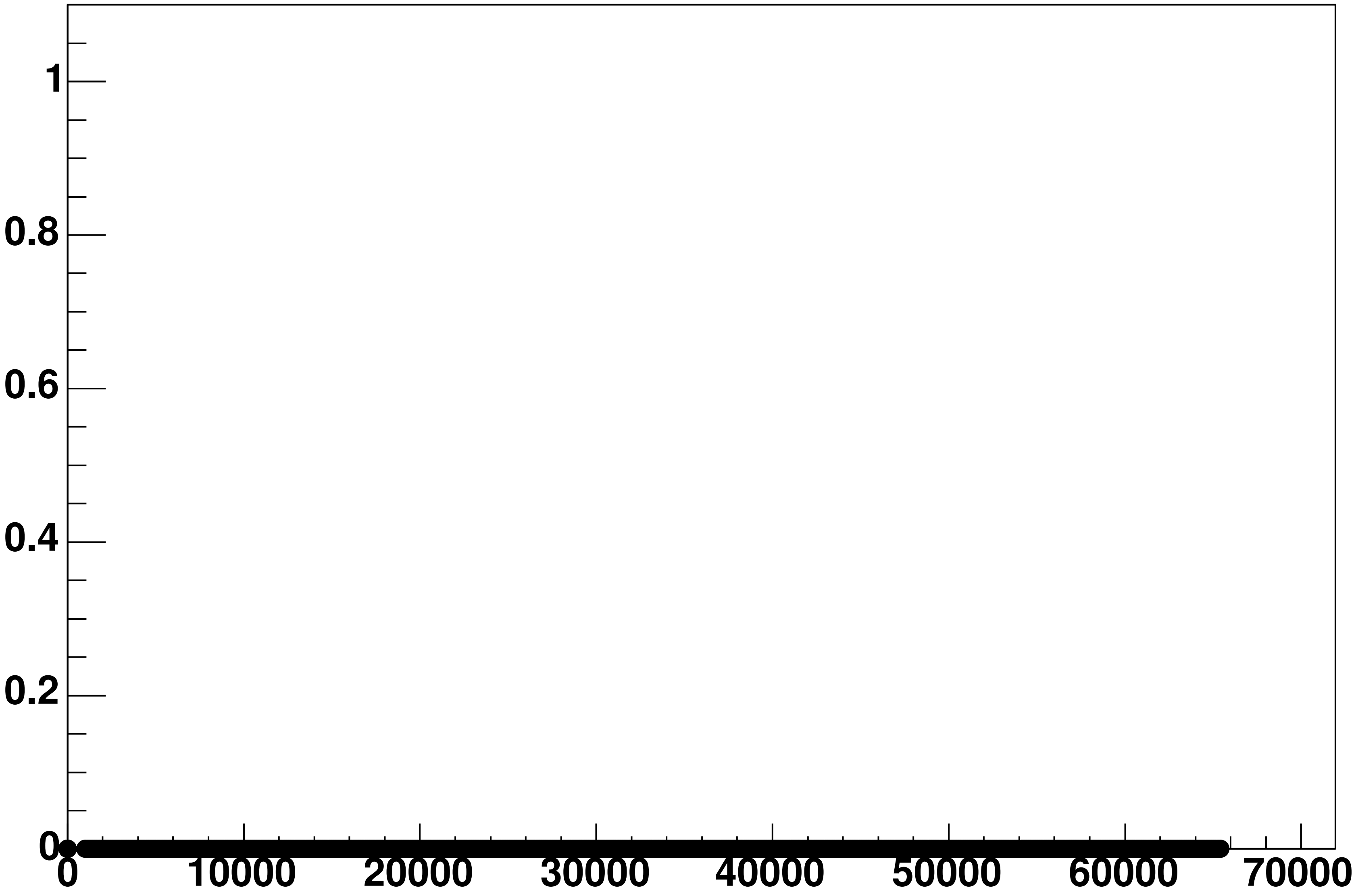

FE6, Chip 5, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

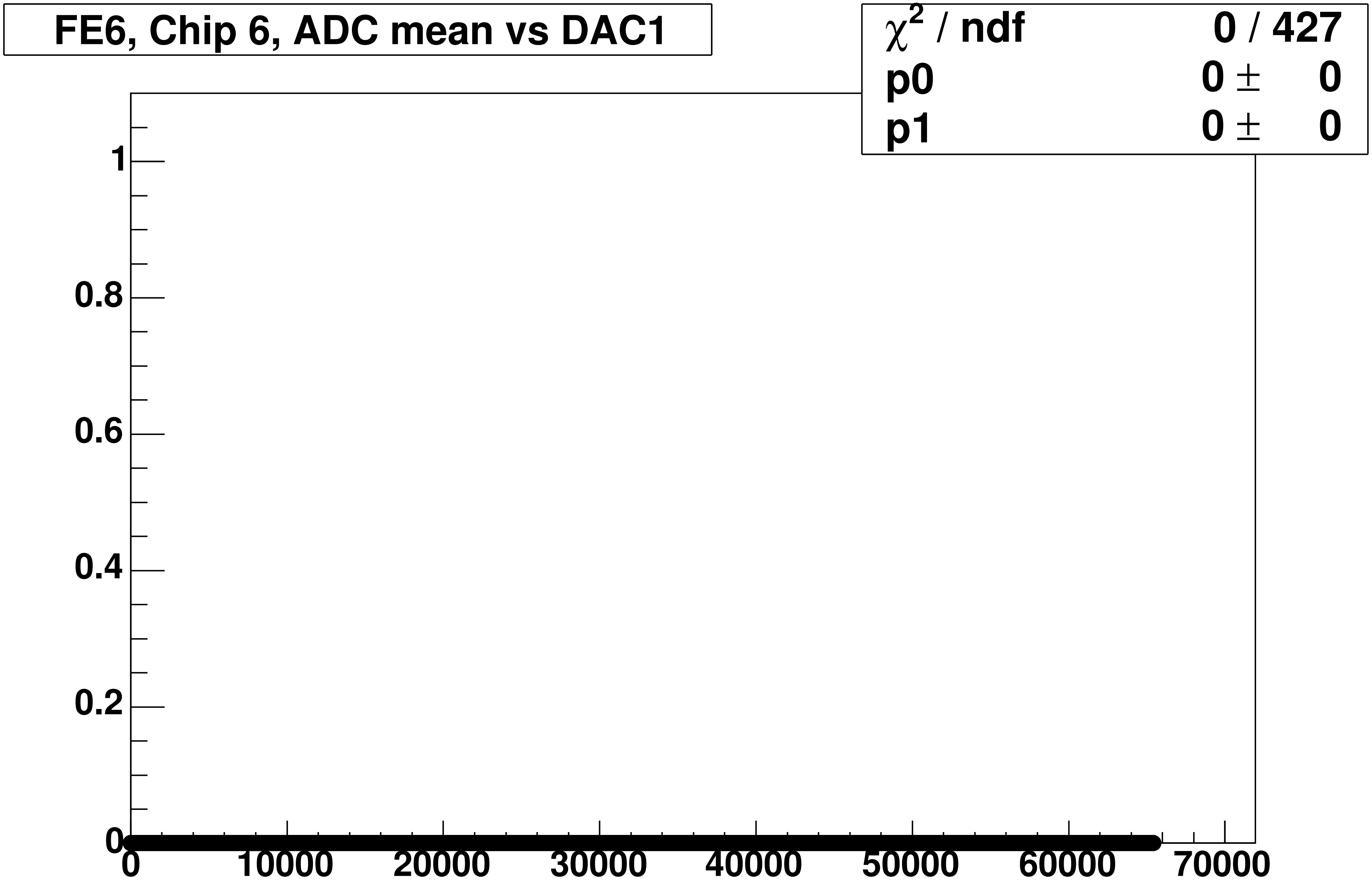

FE6, Chip 5, ADC residuals vs DAC1
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

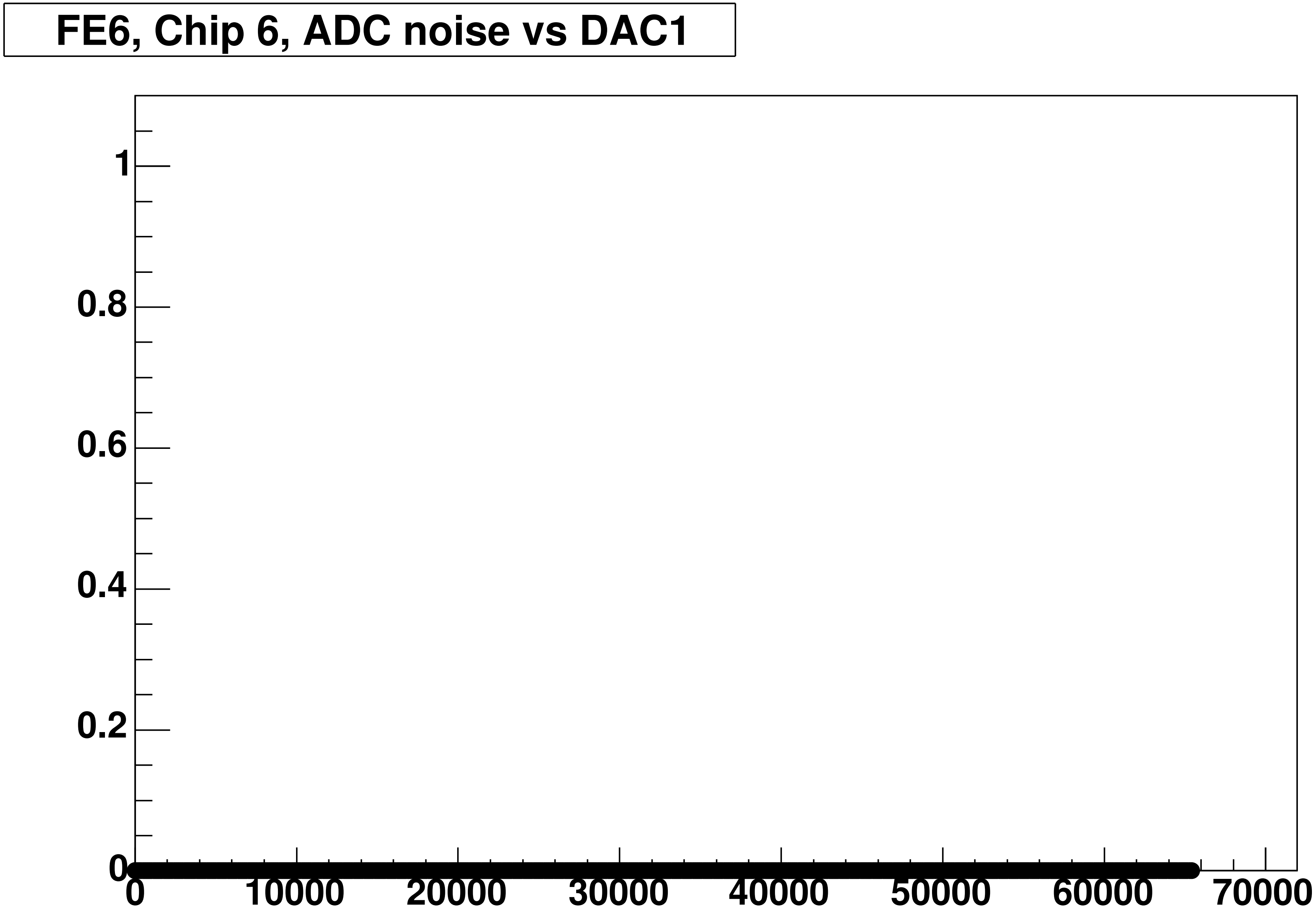

FE6, Chip 6, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

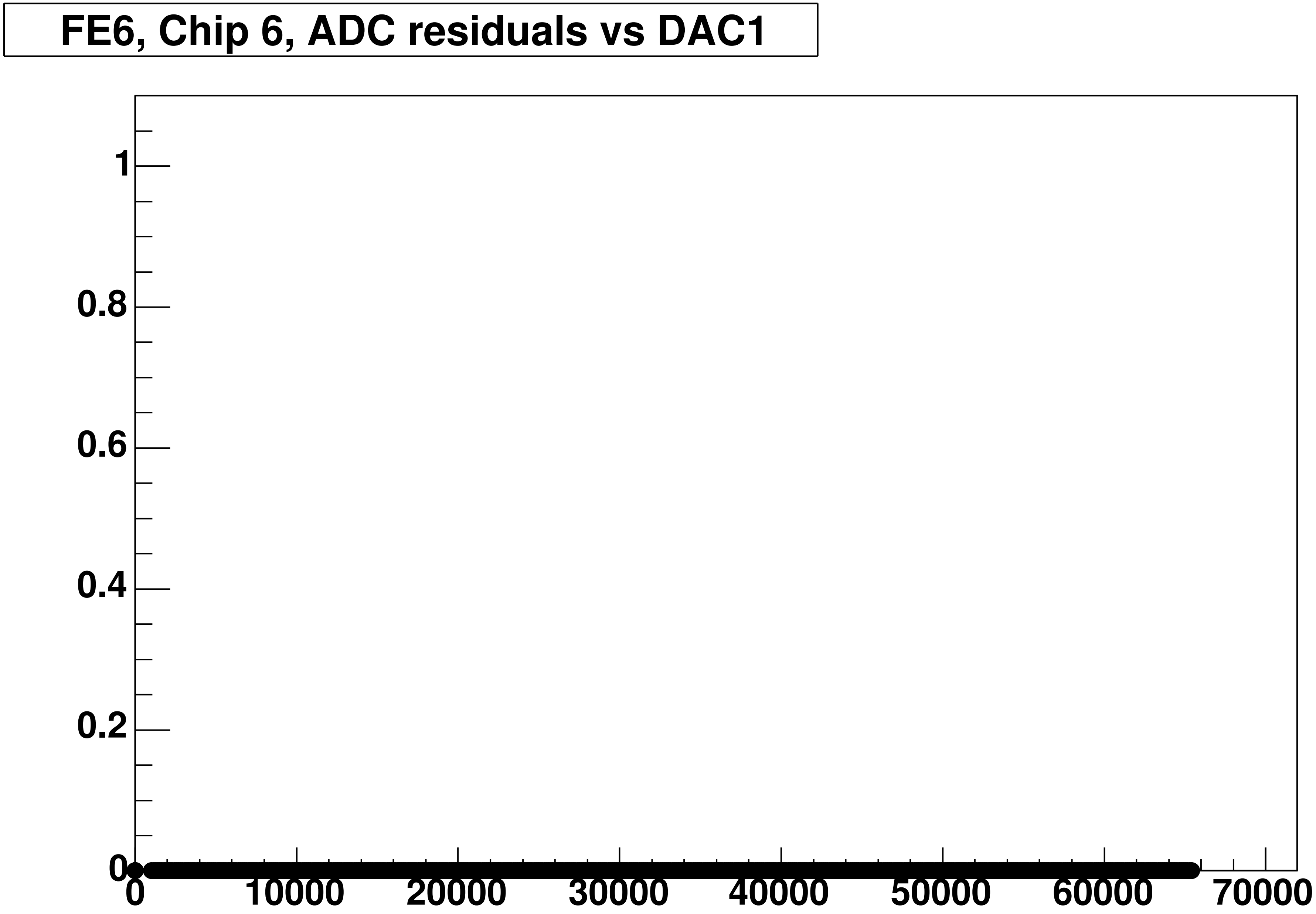
FE6, Chip 6, ADC residuals vs DAC0

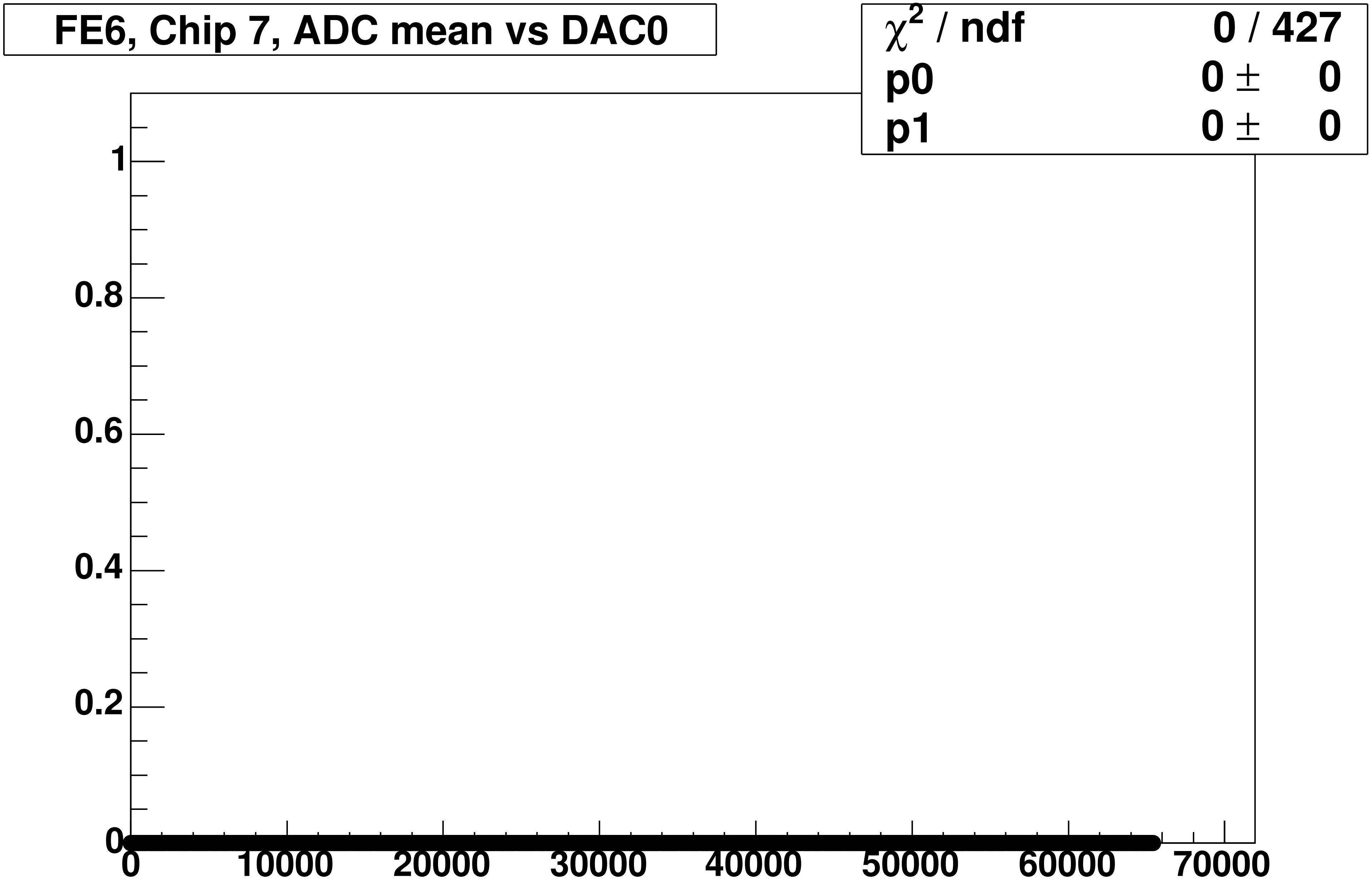




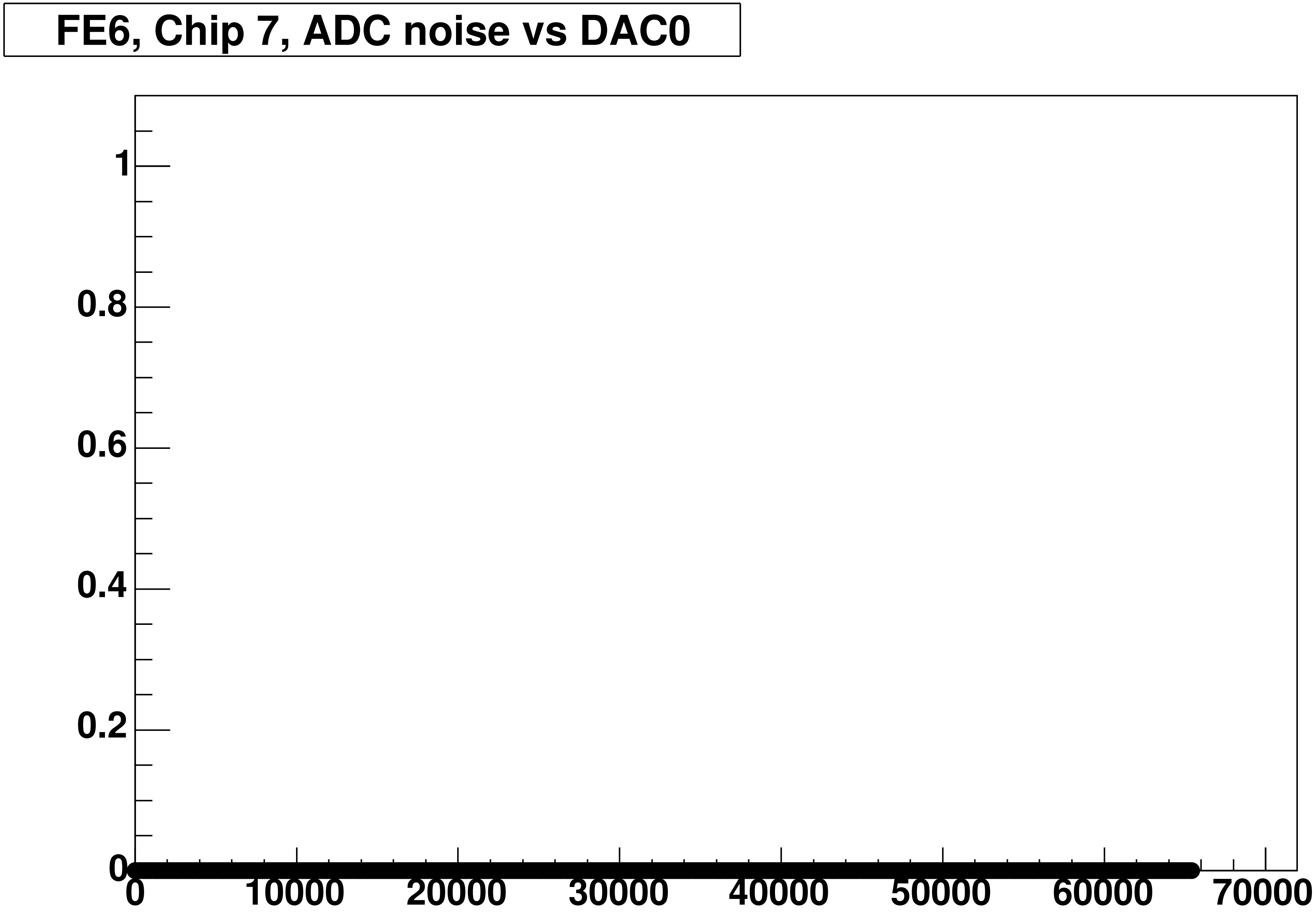
FE6, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 6, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

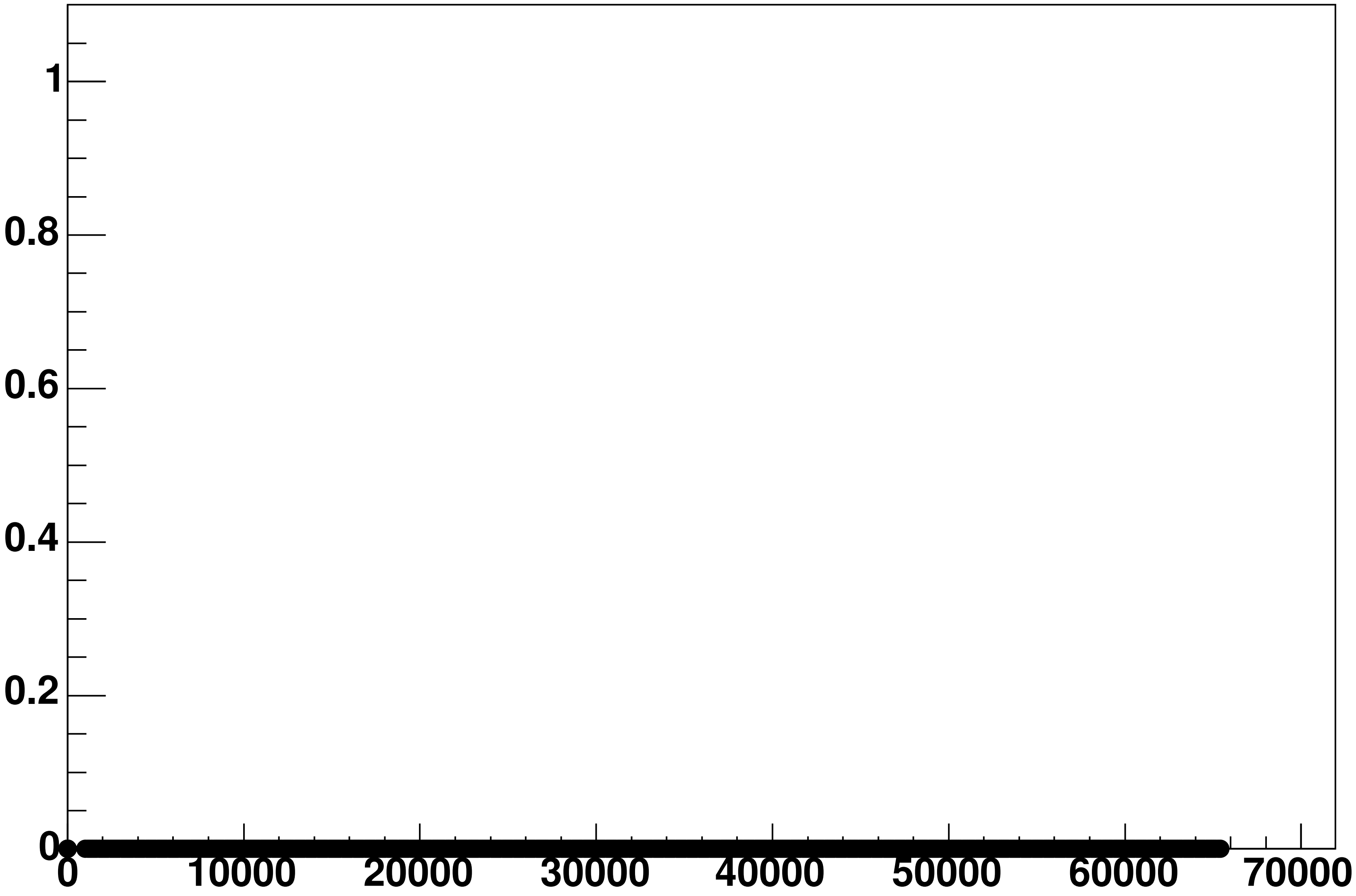

FE6, Chip 6, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

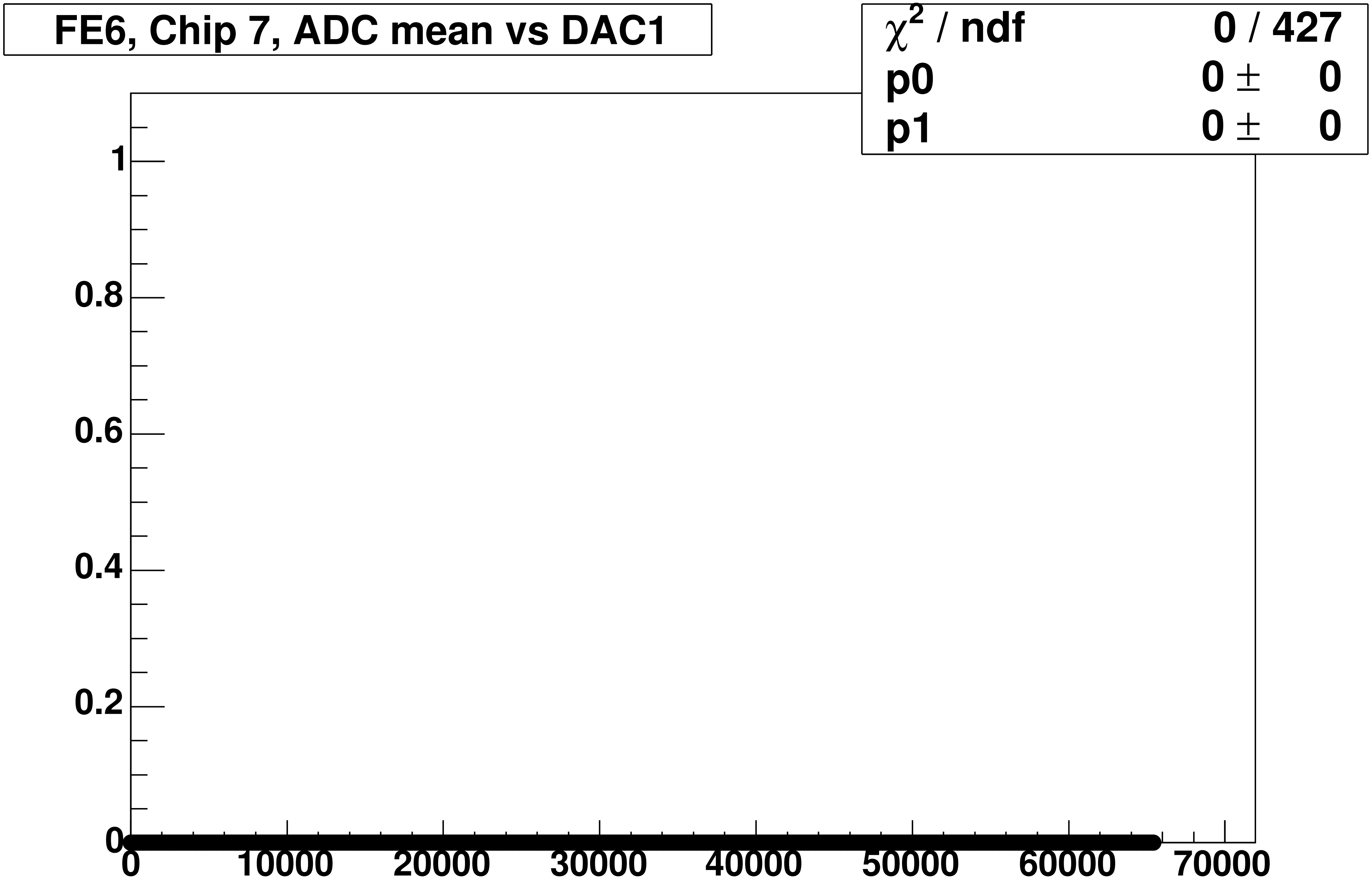


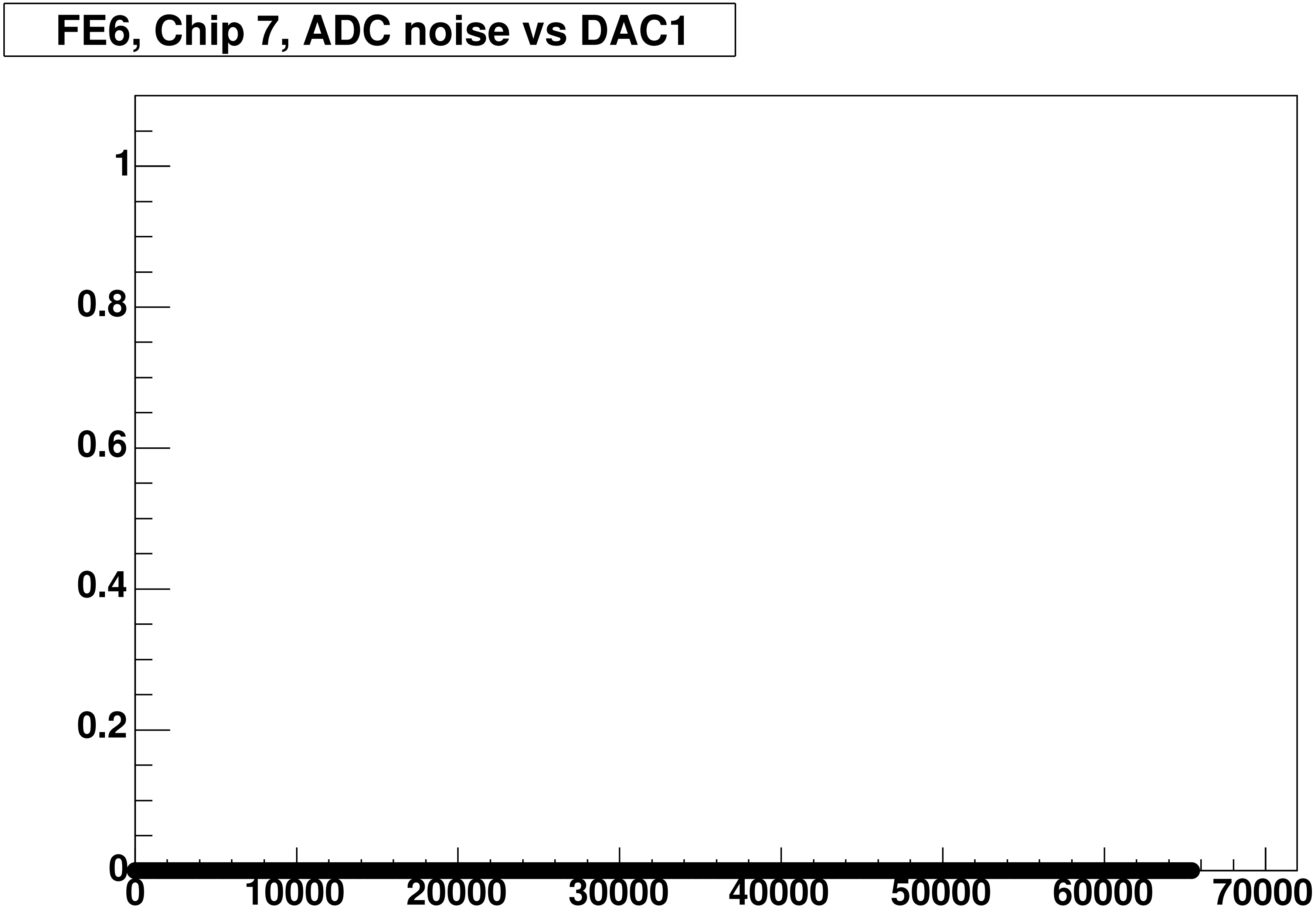
FE6, Chip 7, ADC mean vs DAC0
χ² / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

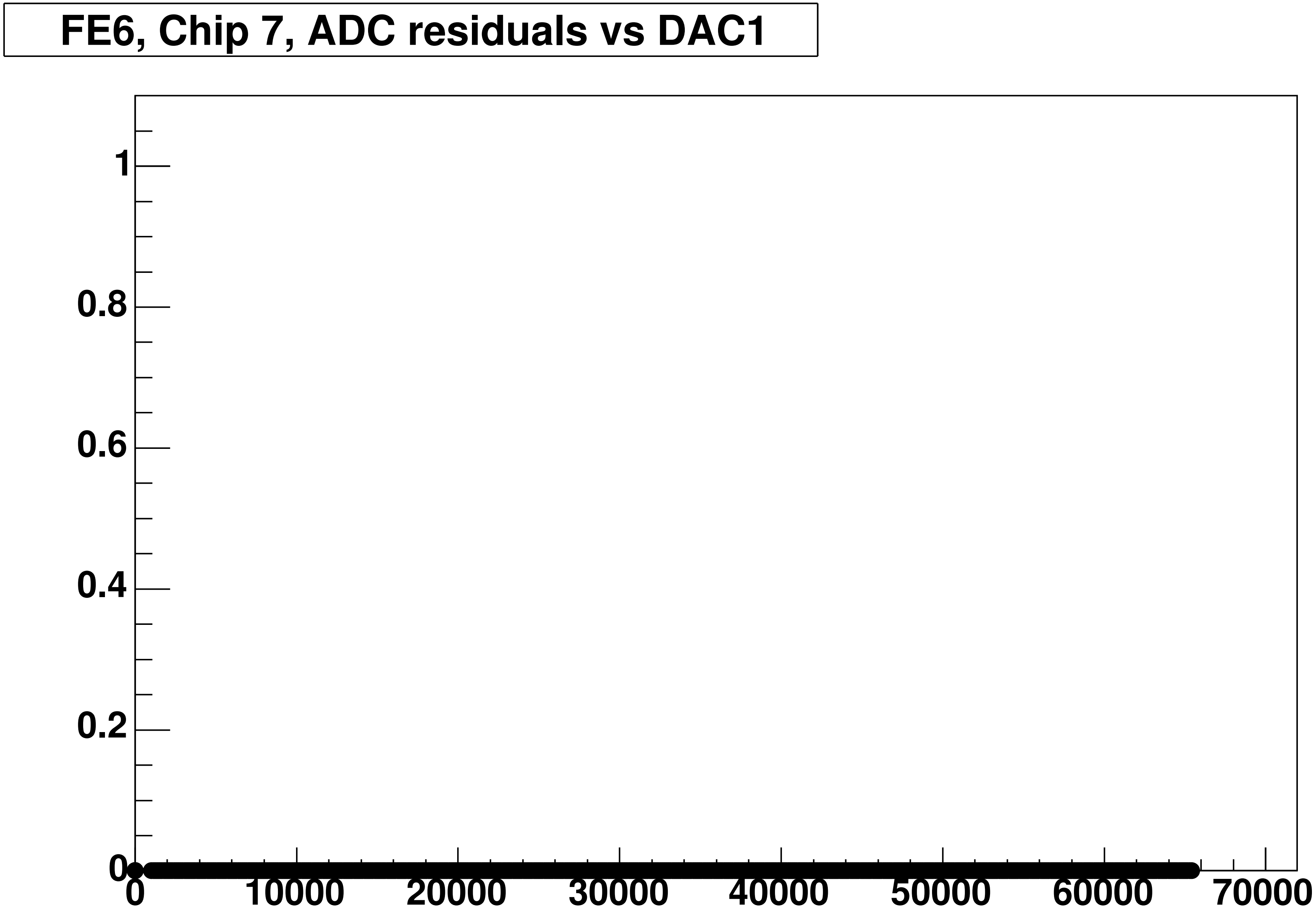

FE6, Chip 7, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

FE6, Chip 7, ADC residuals vs DAC0




FE6, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 7, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 7, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
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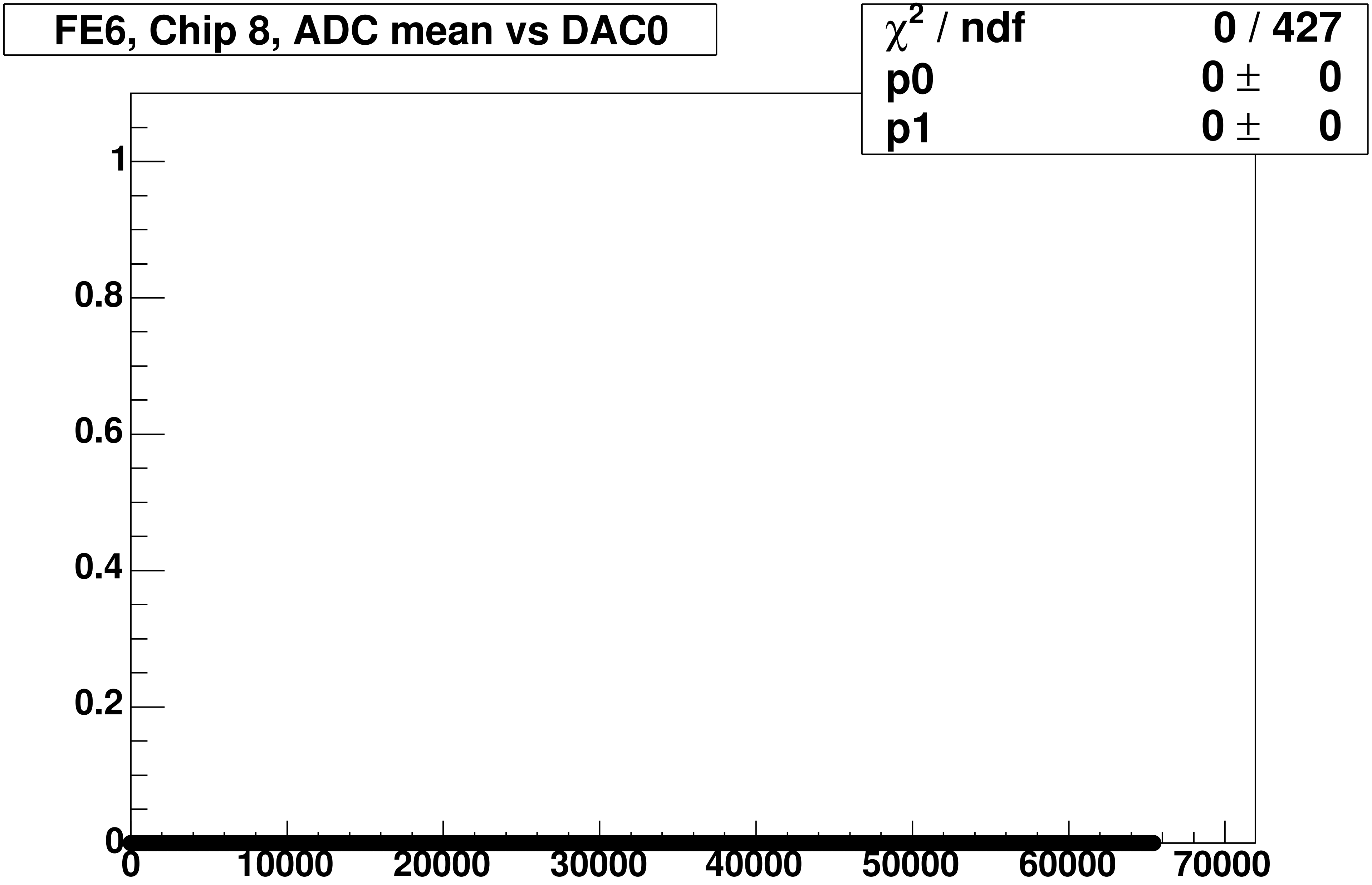
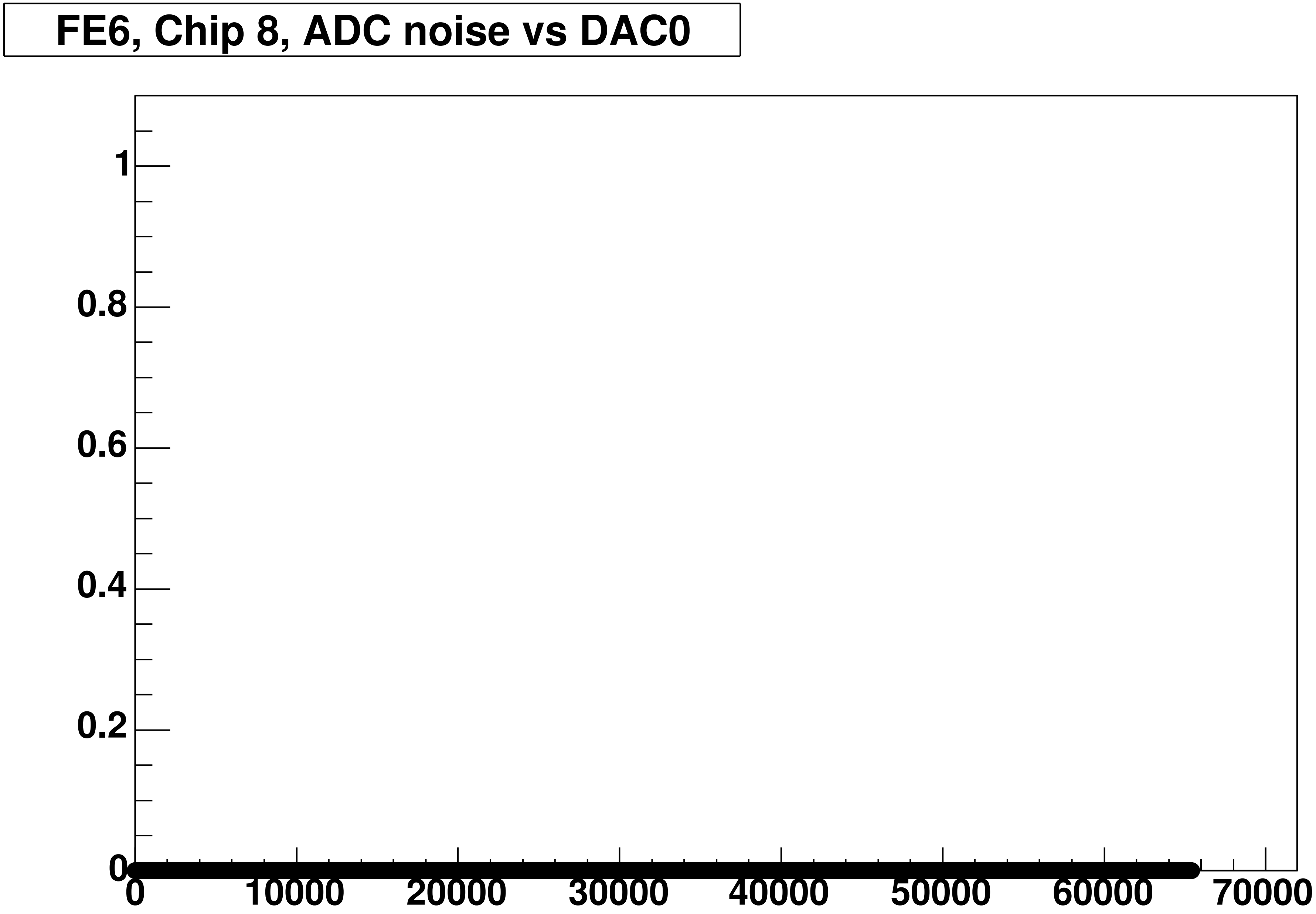
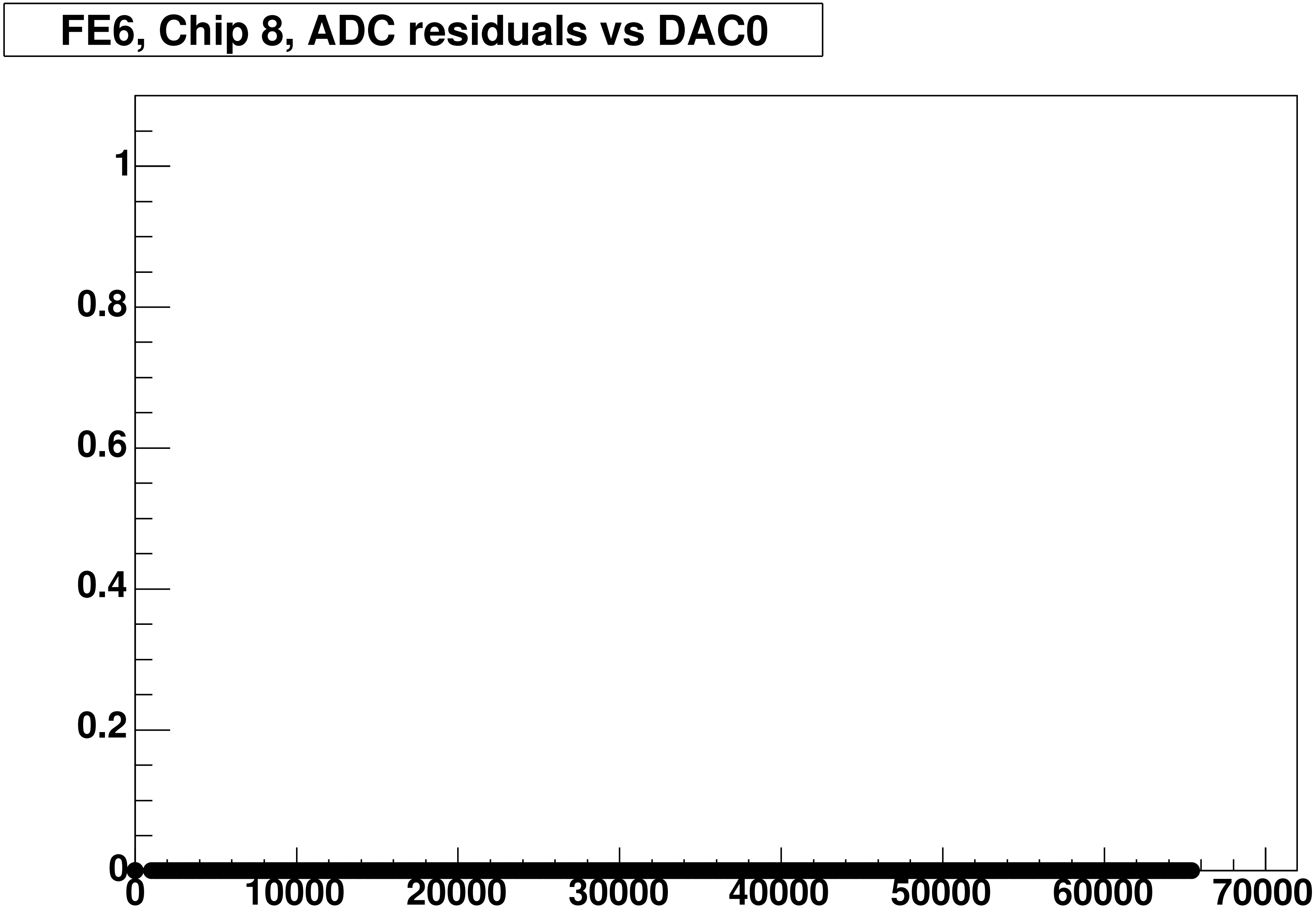
60000
70000

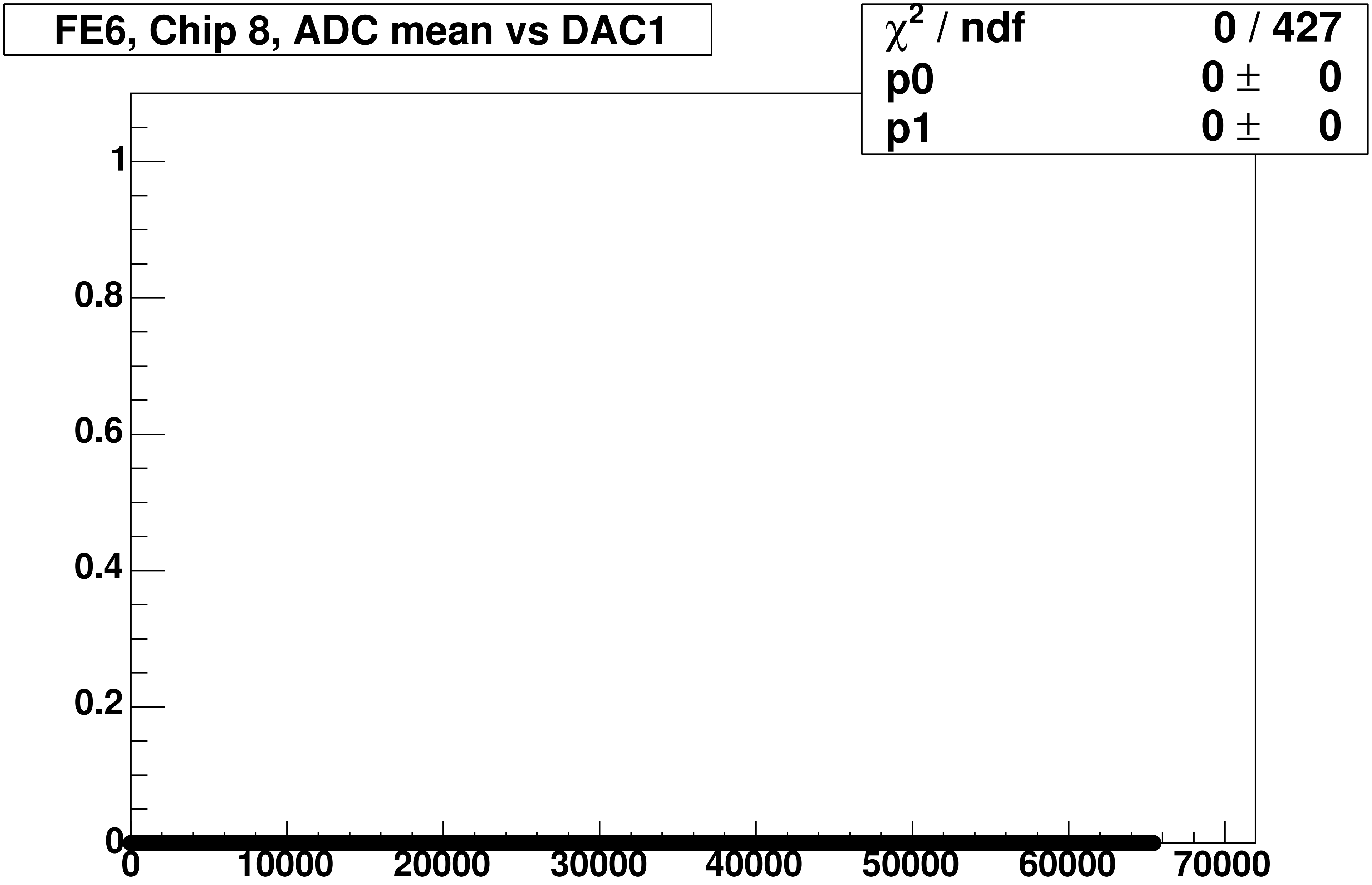


FE6, Chip 8, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

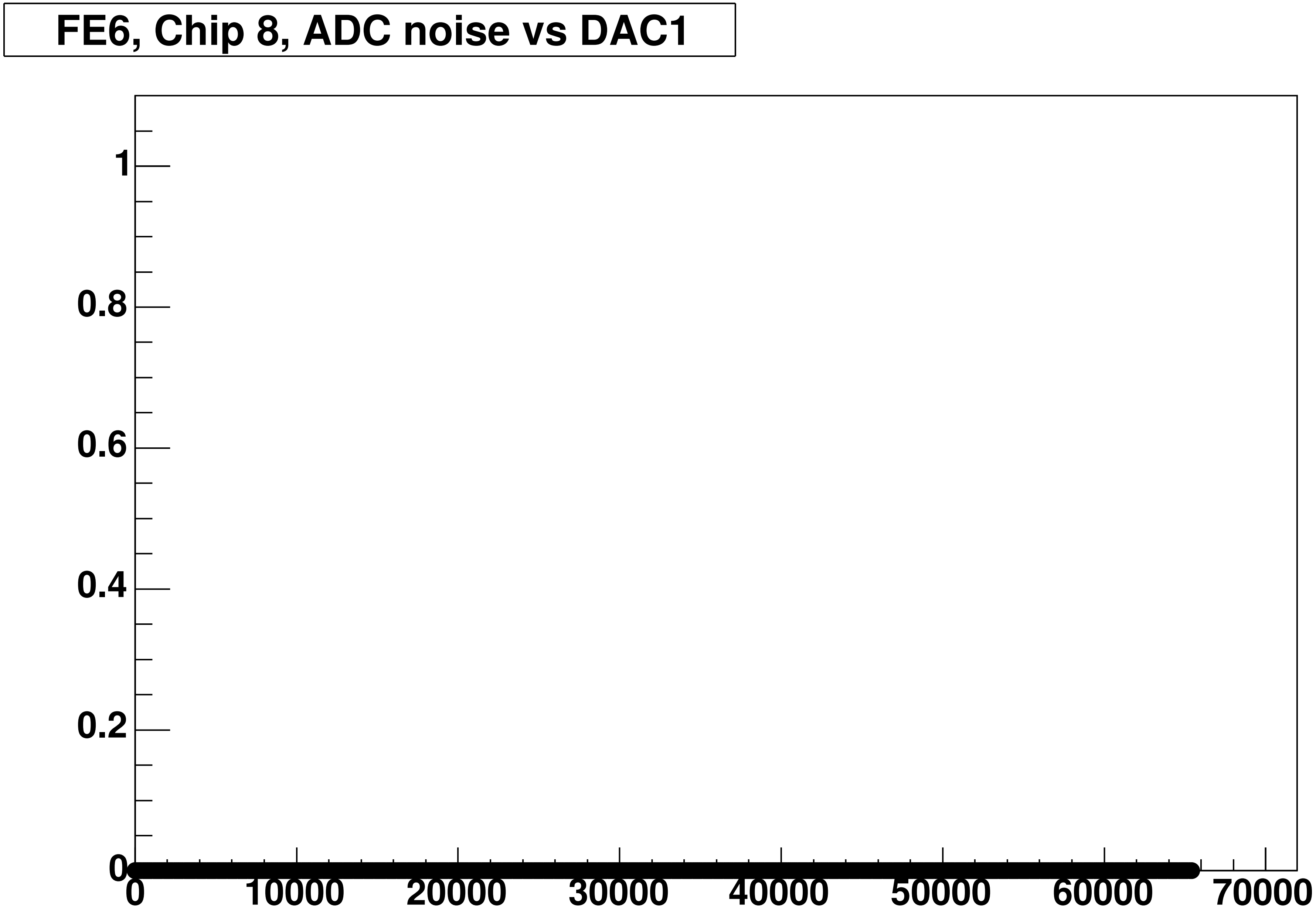


FE6, Chip 8, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

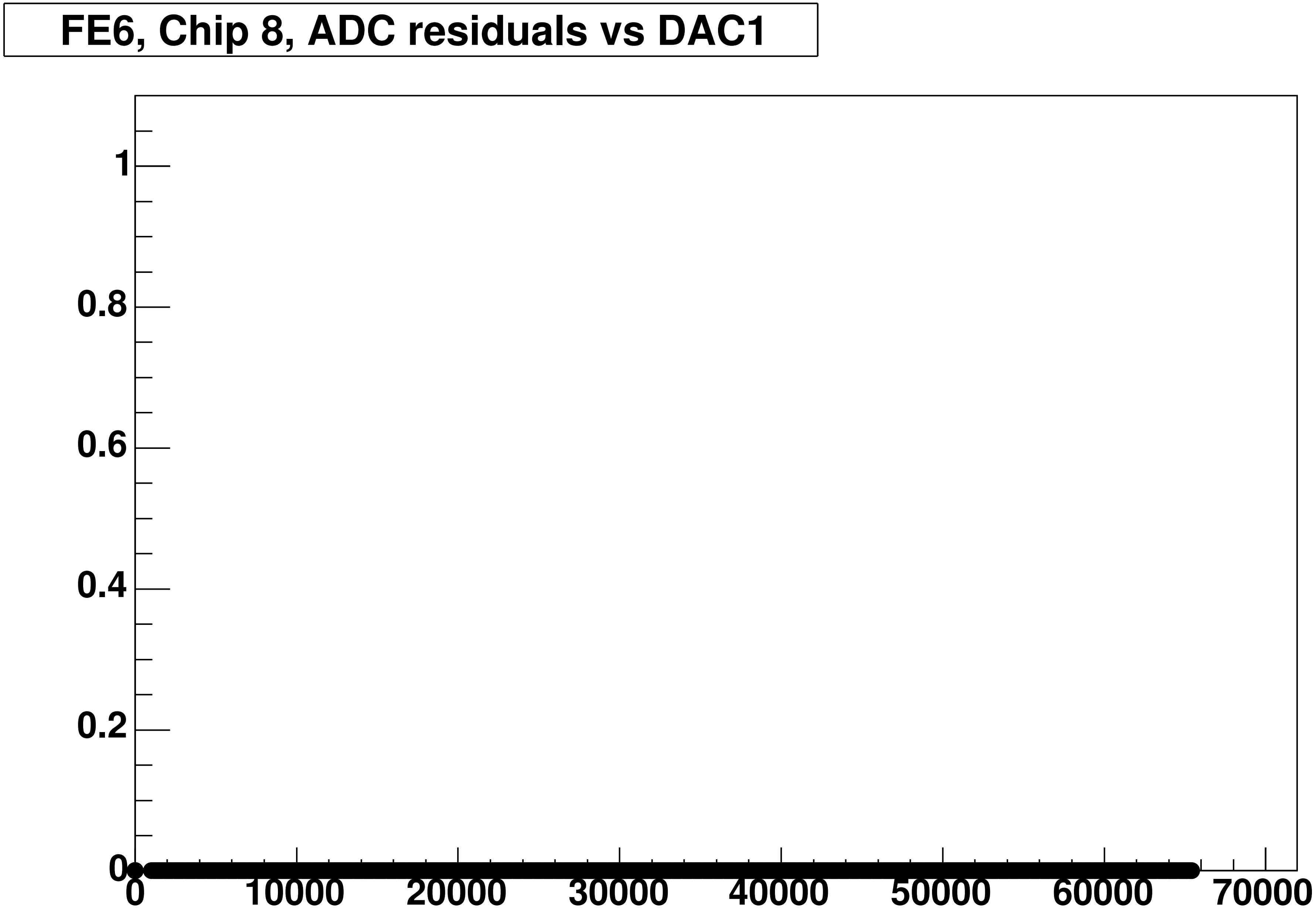

FE6, Chip 8, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



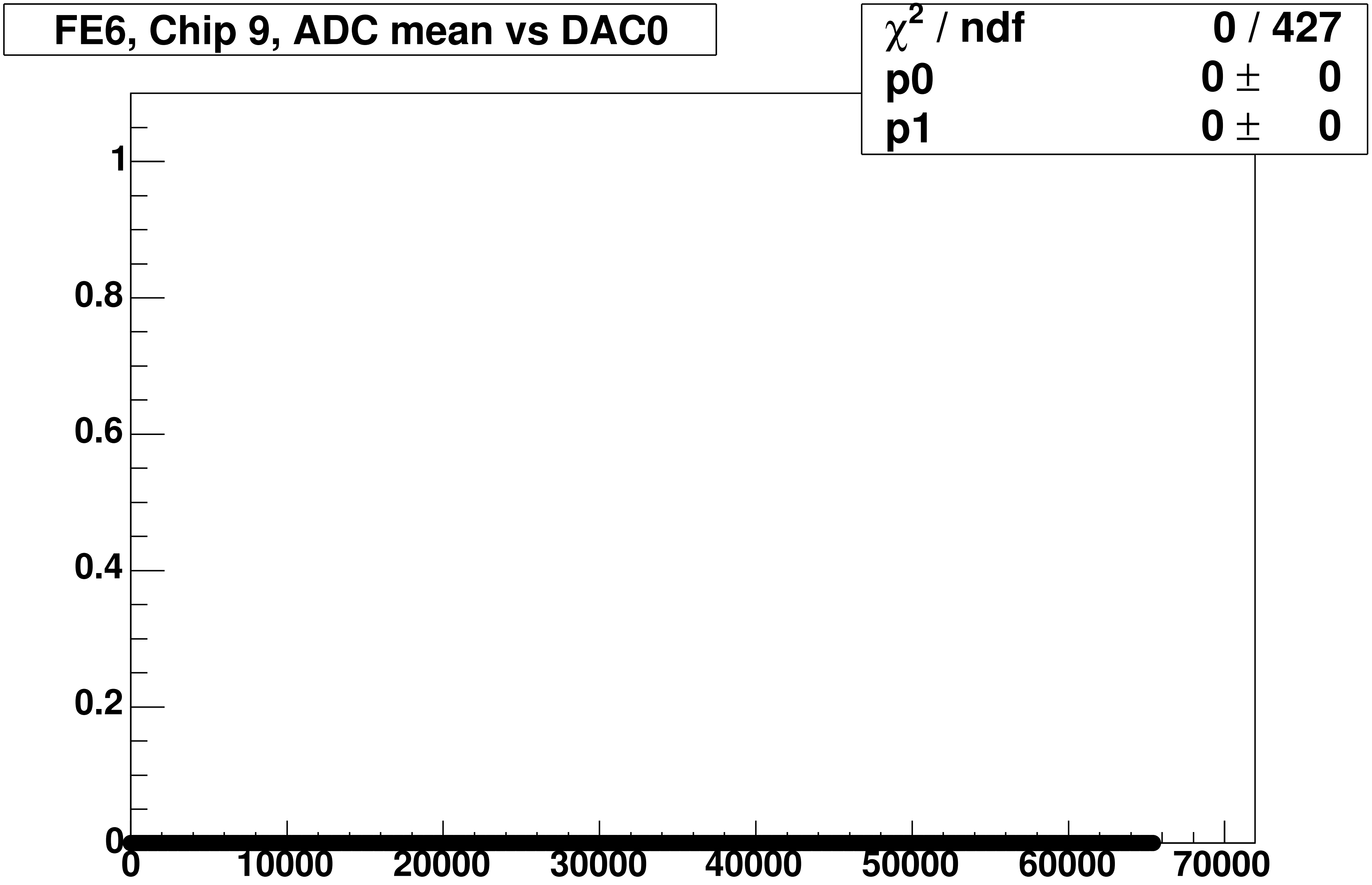
FE6, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



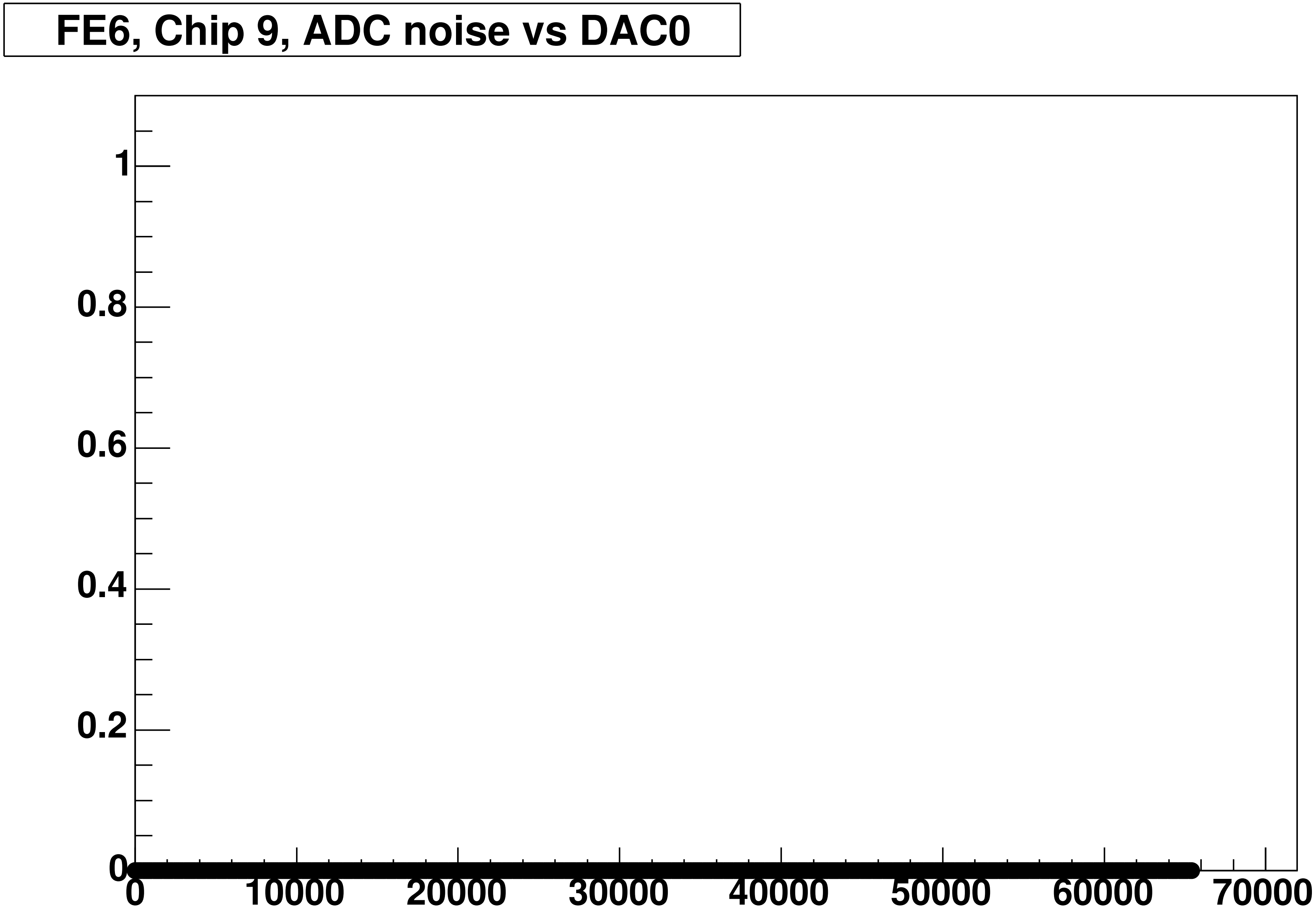
FE6, Chip 8, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

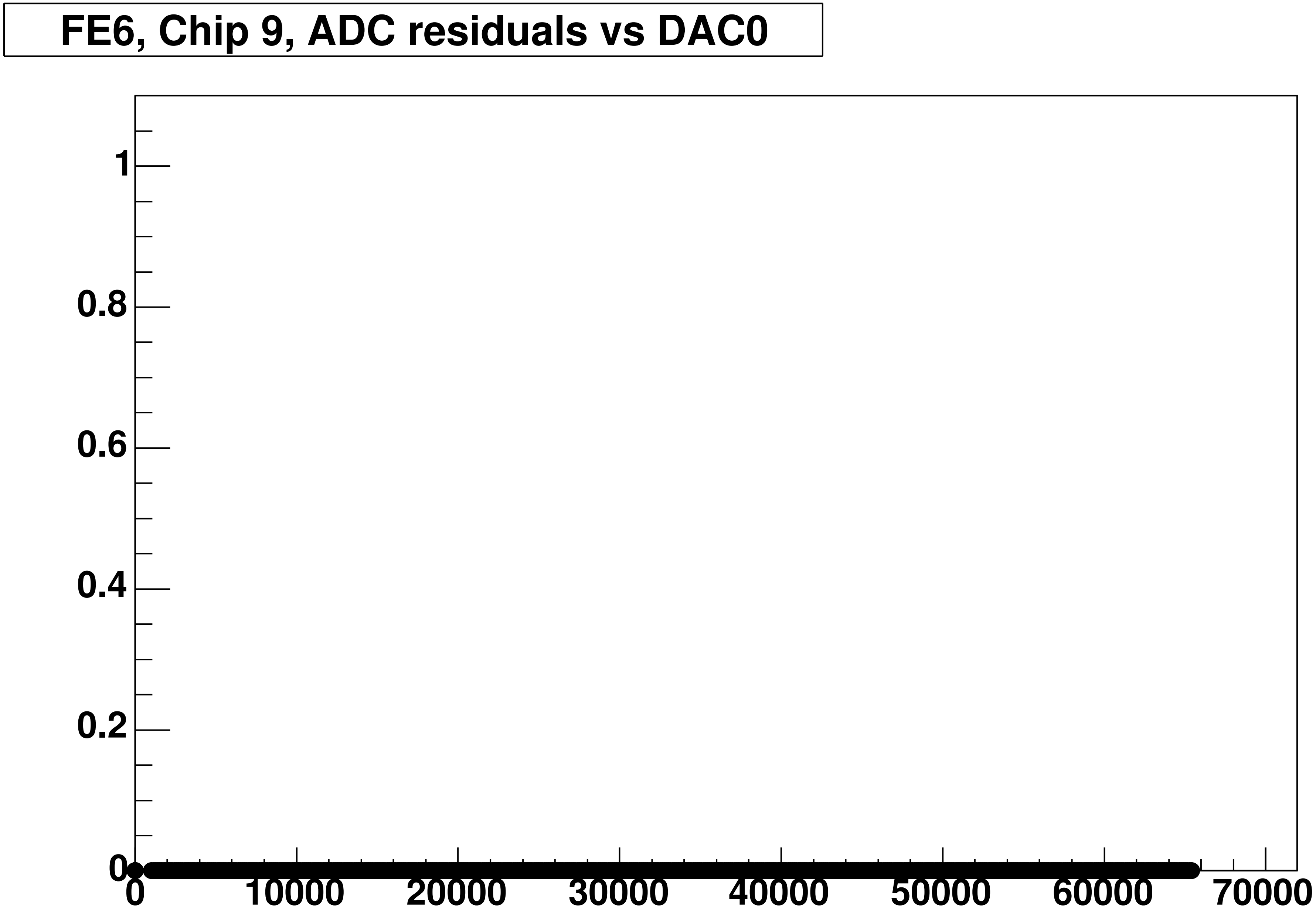


FE6, Chip 8, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

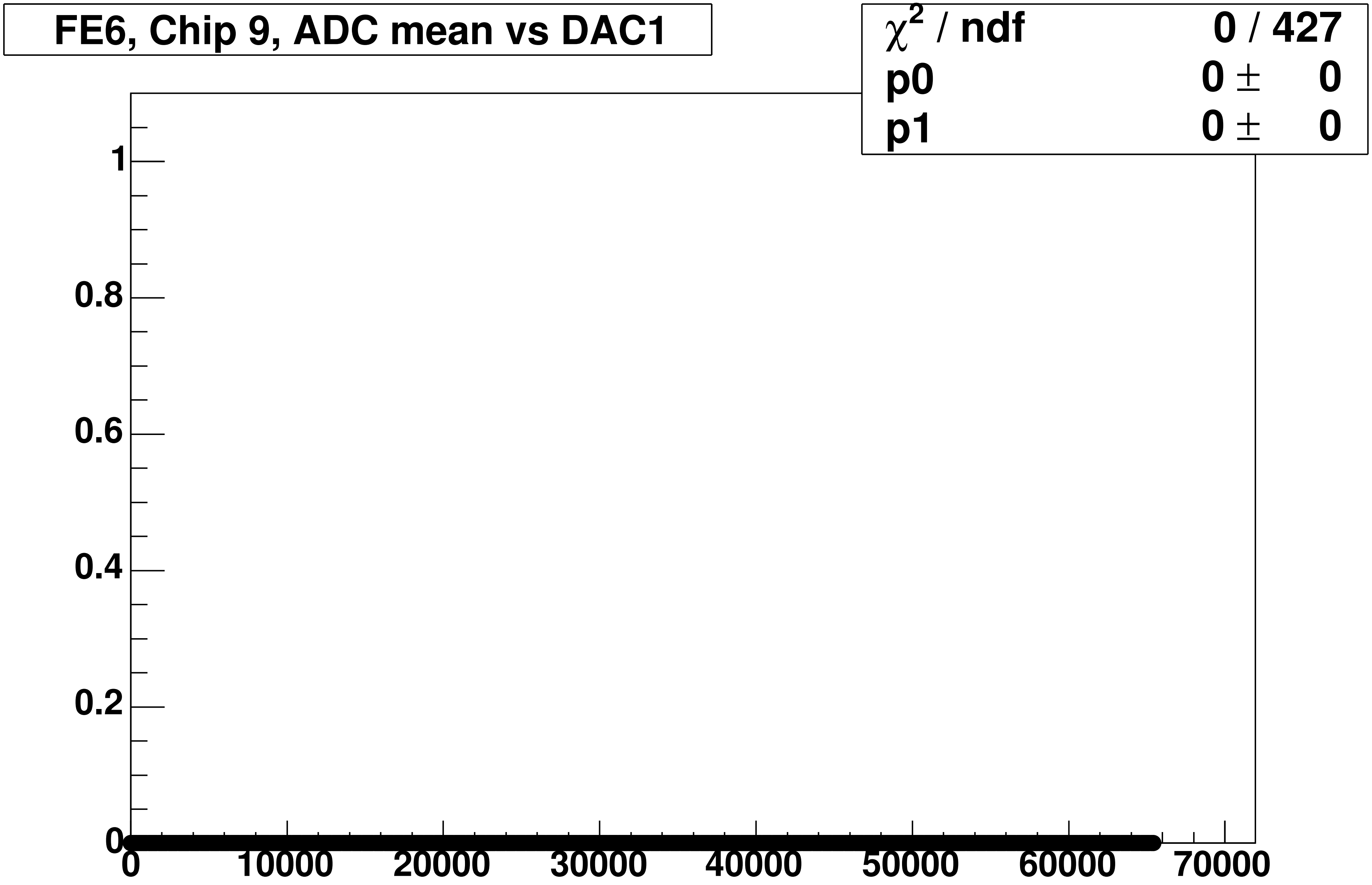


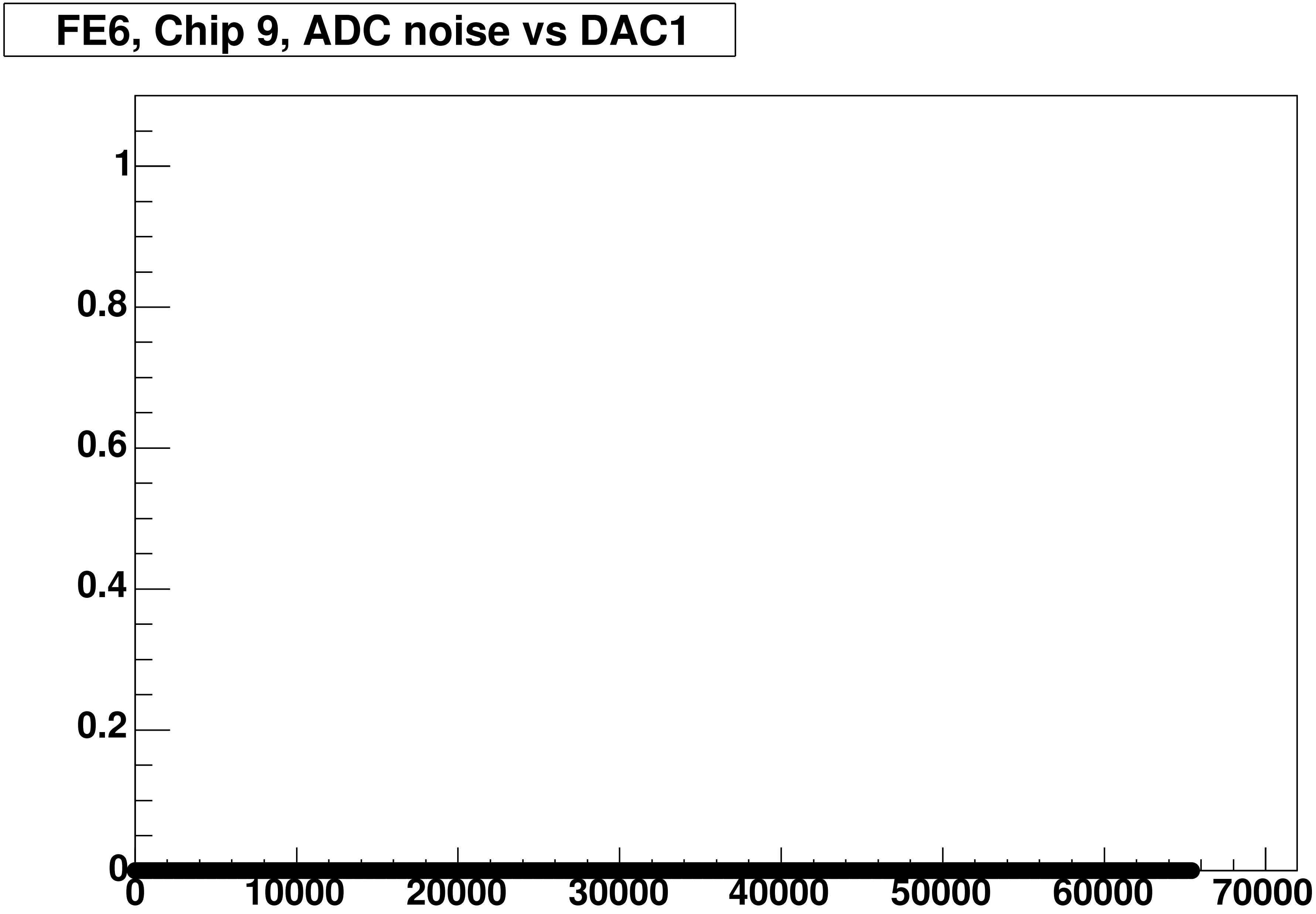
FE6, Chip 9, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 9, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

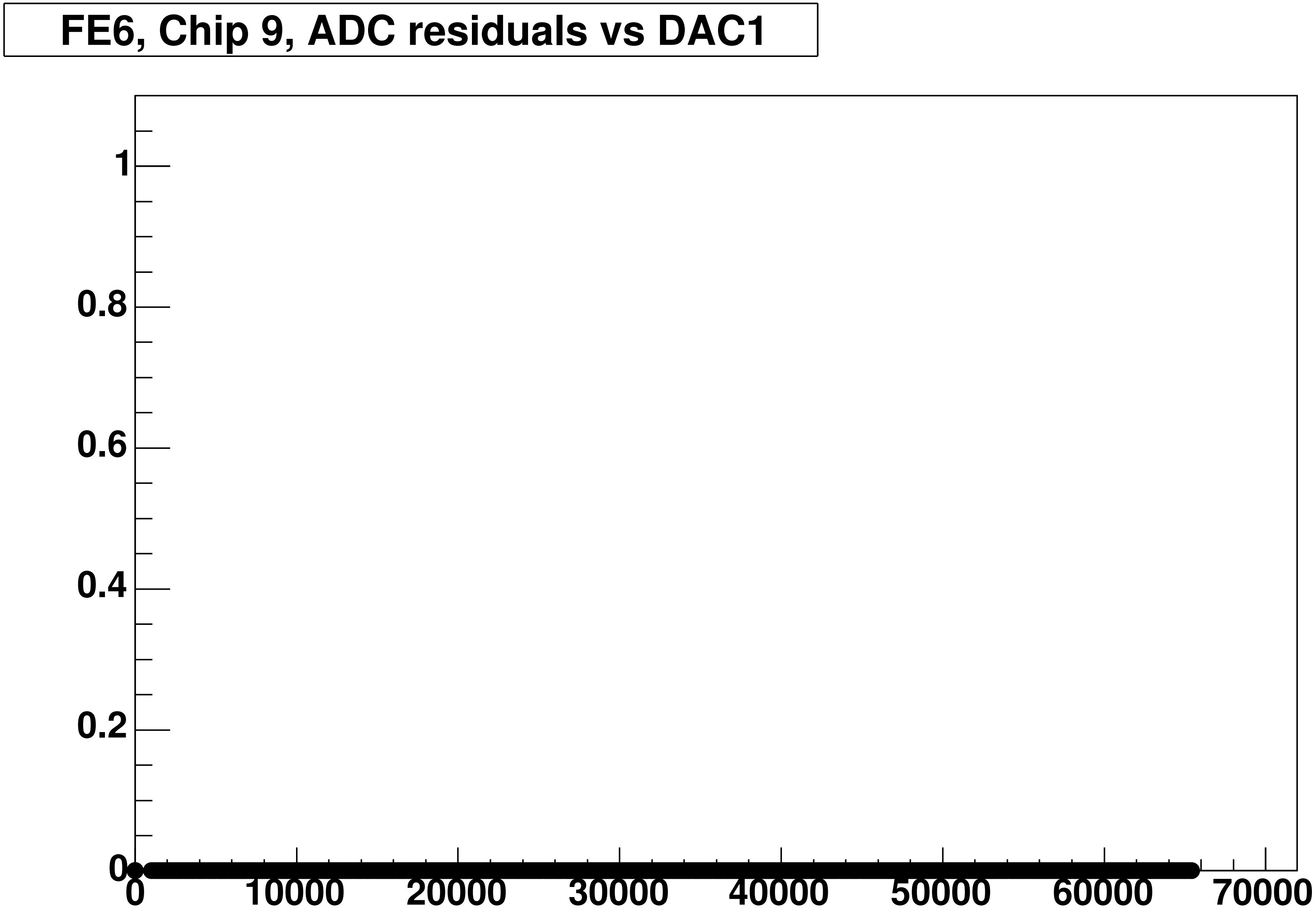


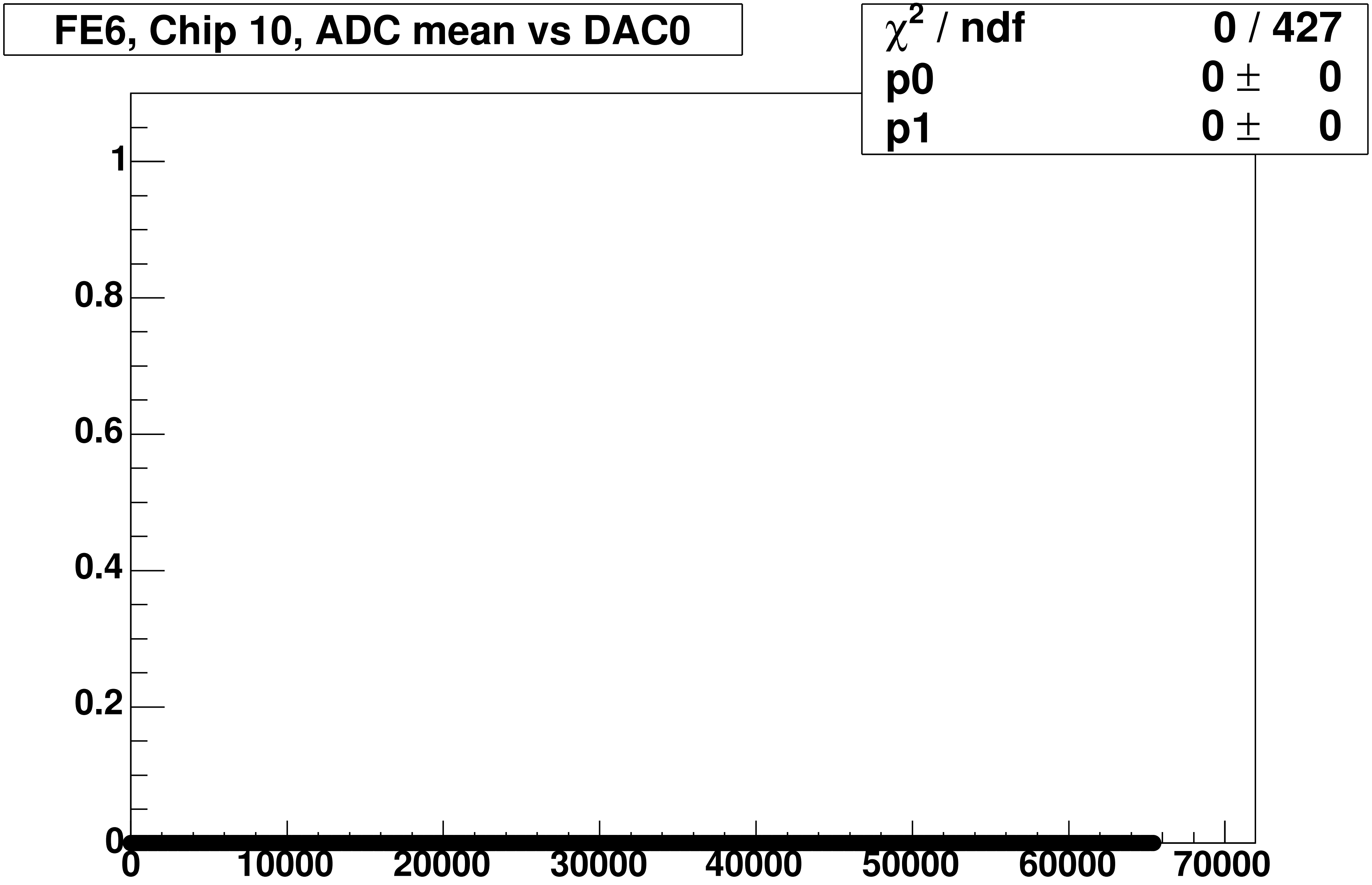
FE6, Chip 9, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

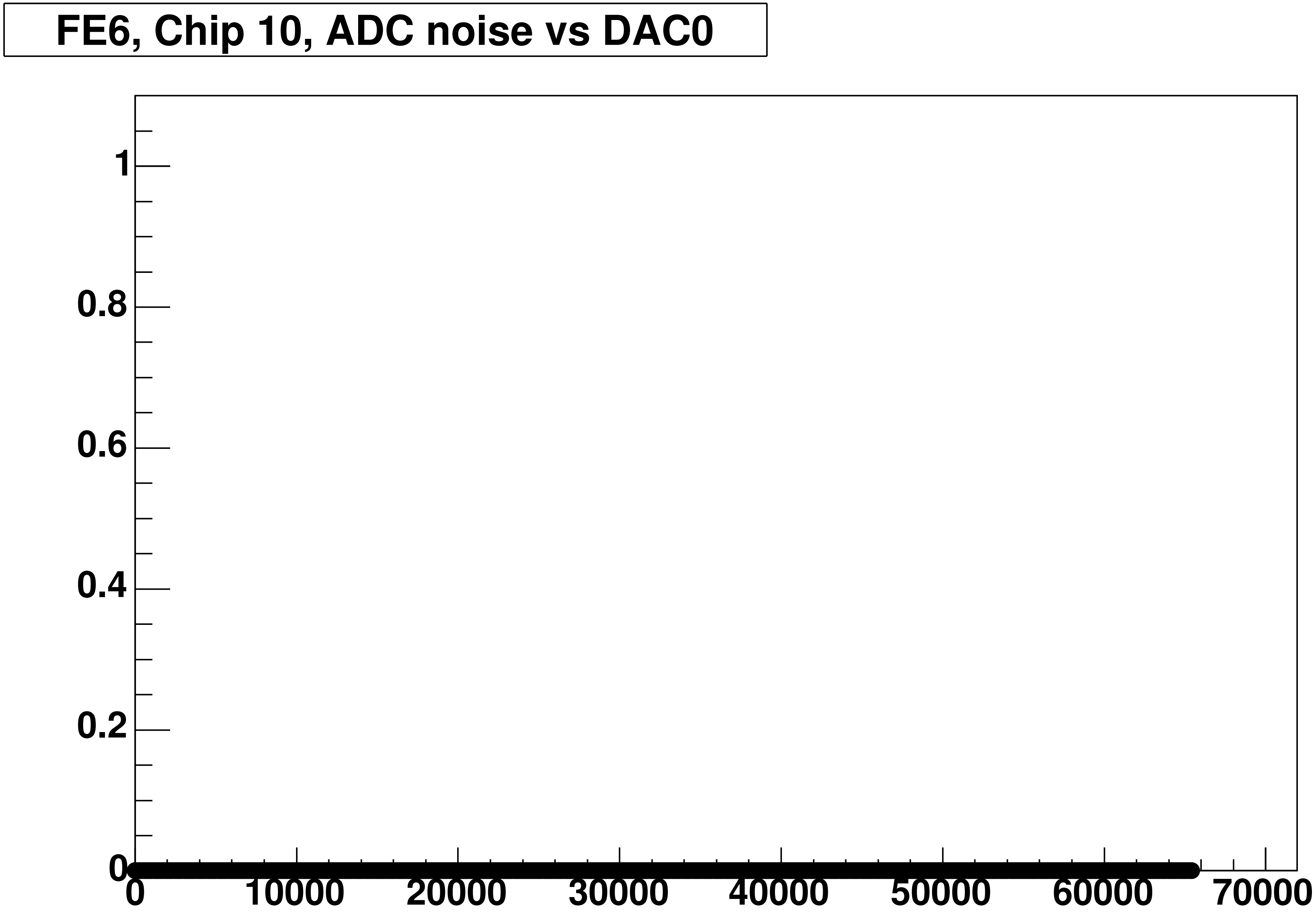


FE6, Chip 9, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

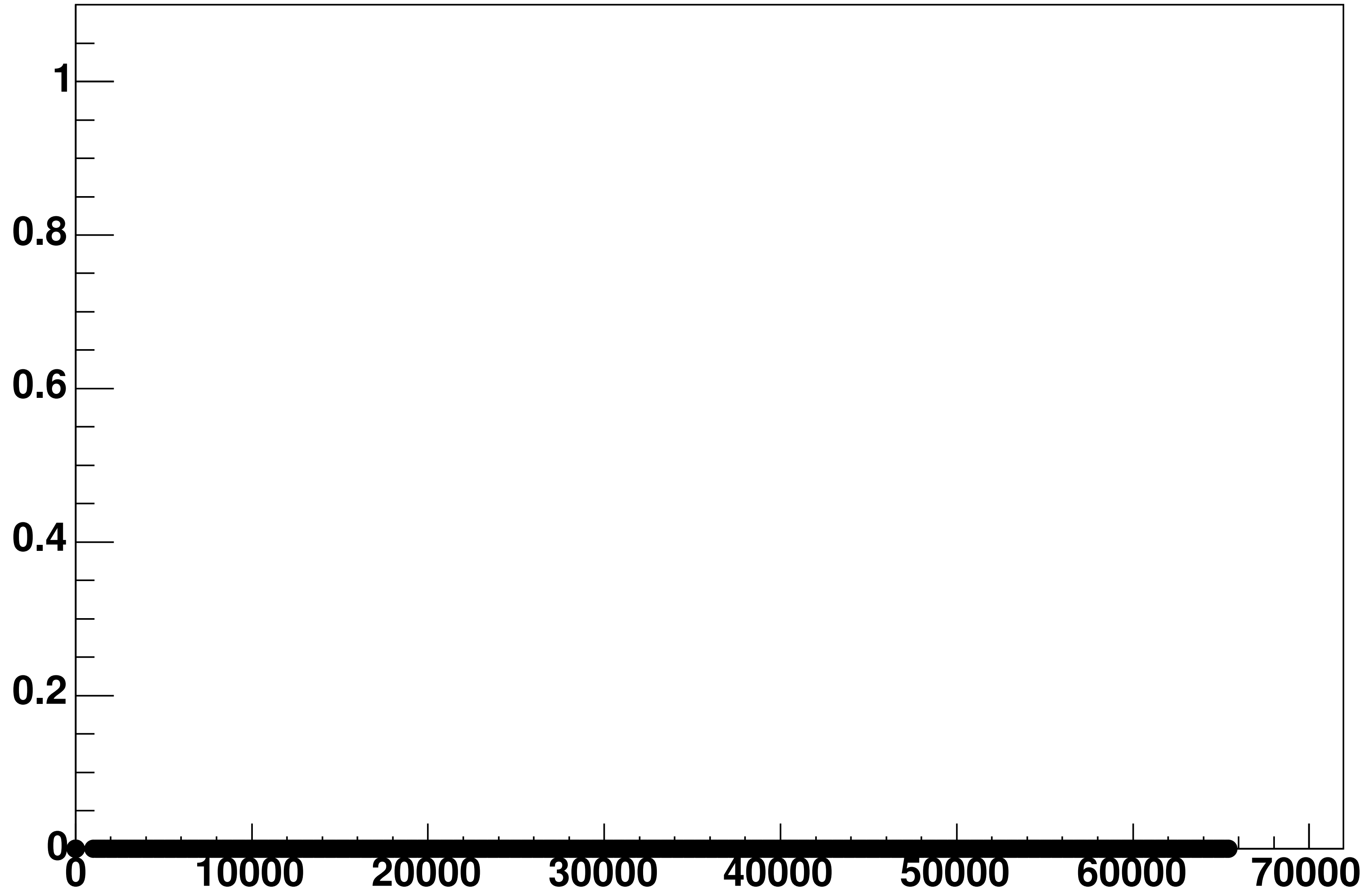

FE6, Chip 9, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

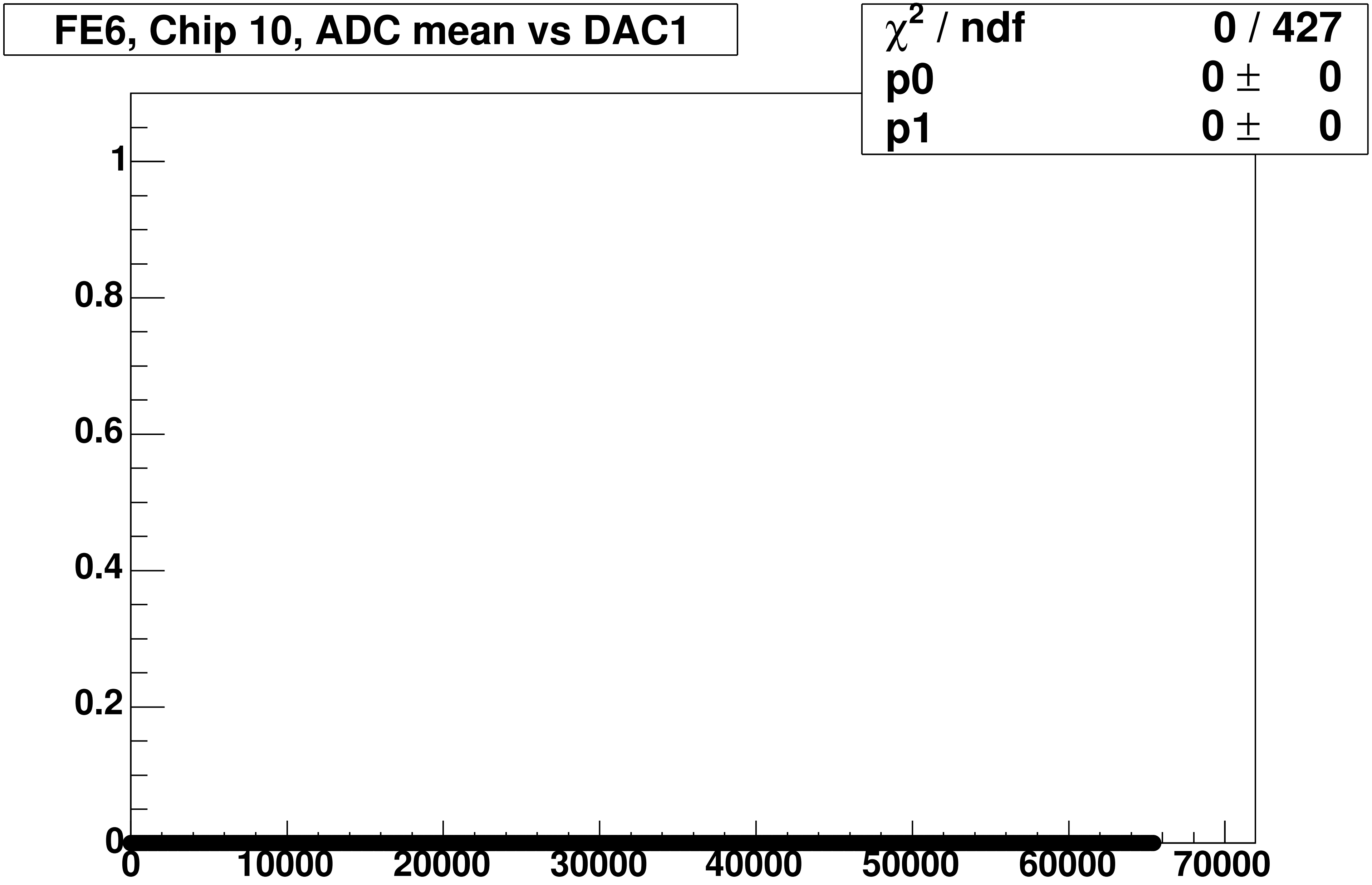


FE6, Chip 10, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 10, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

FE6, Chip 10, ADC residuals vs DAC0




FE6, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
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50000
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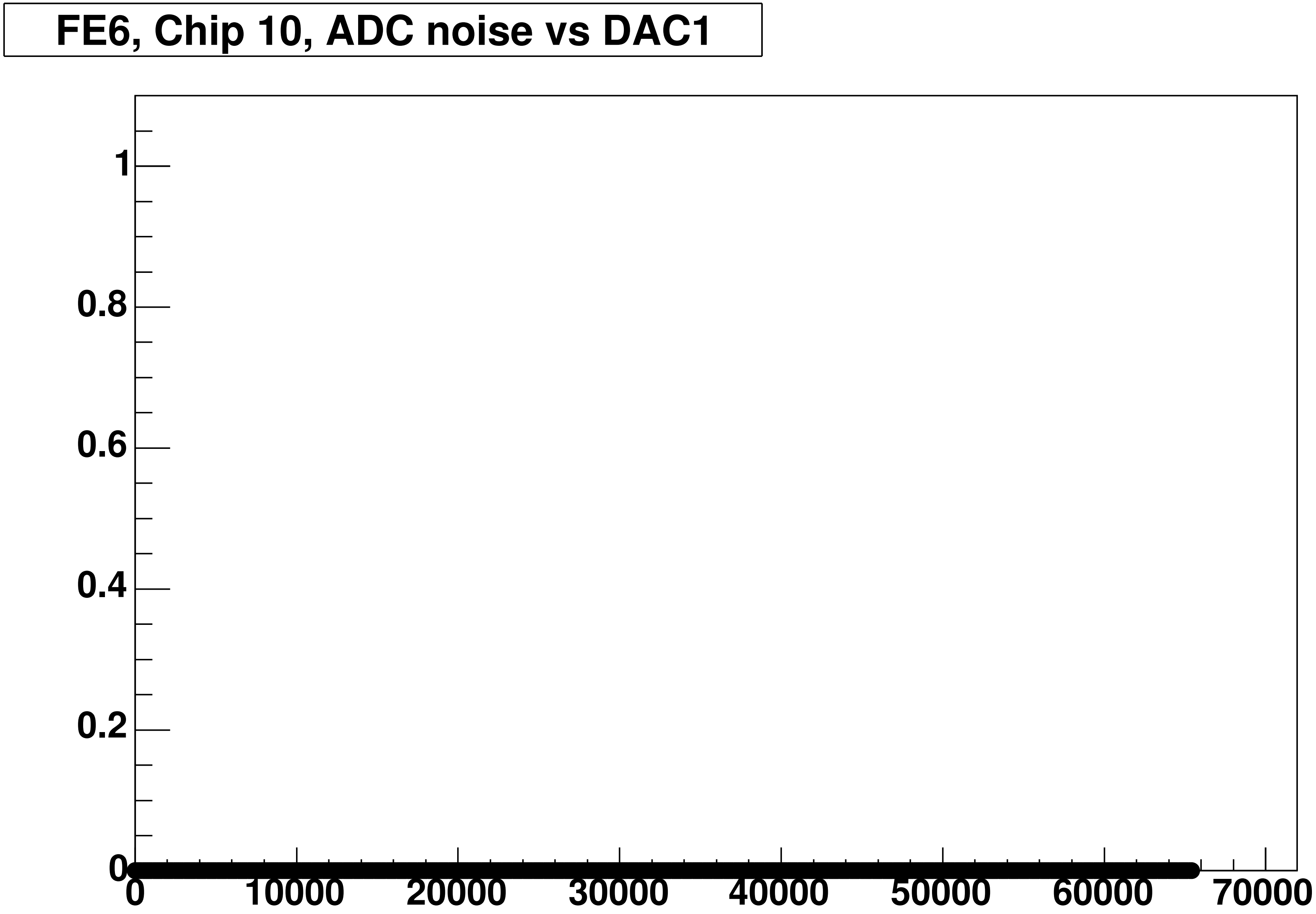
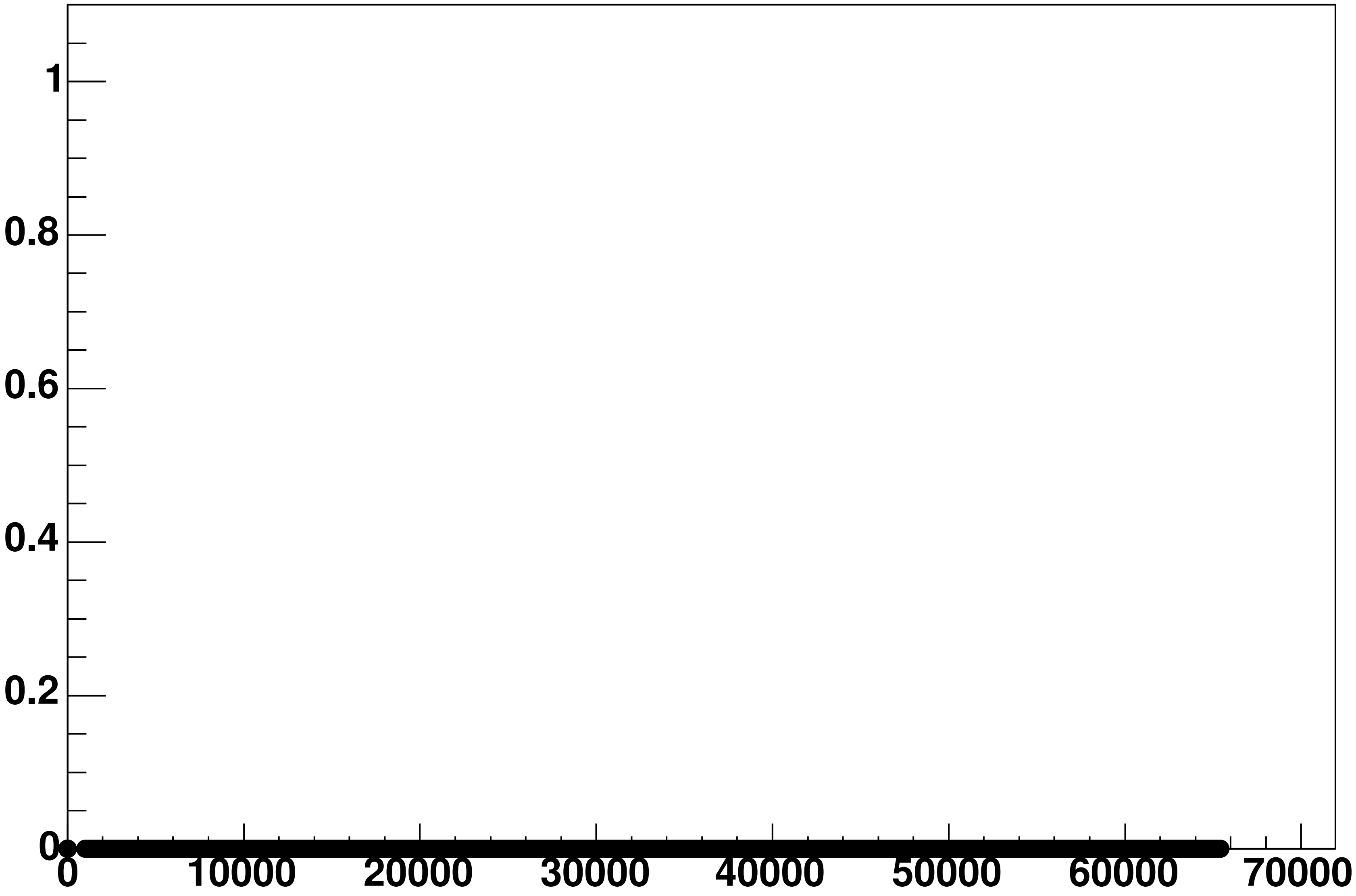
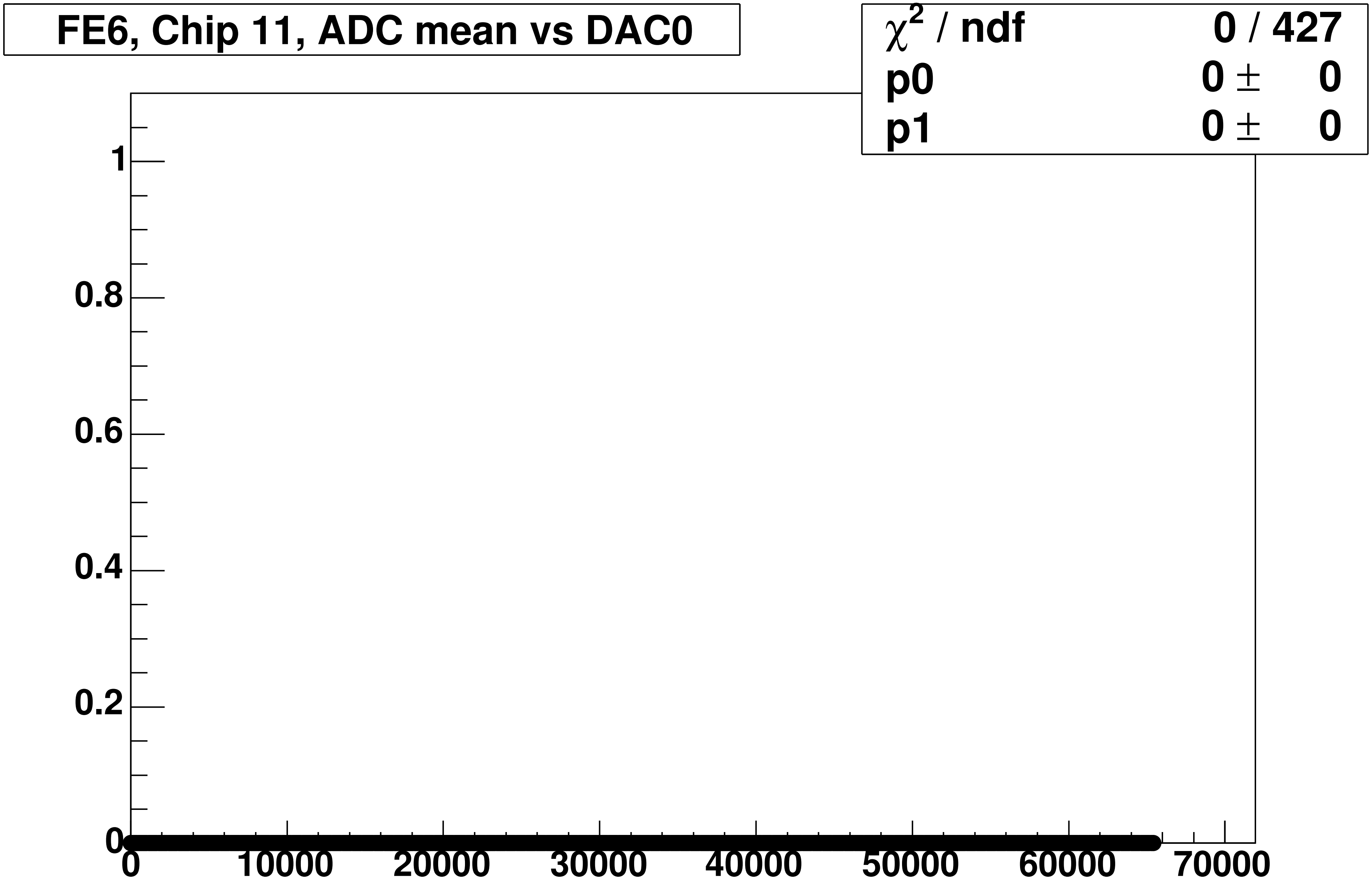
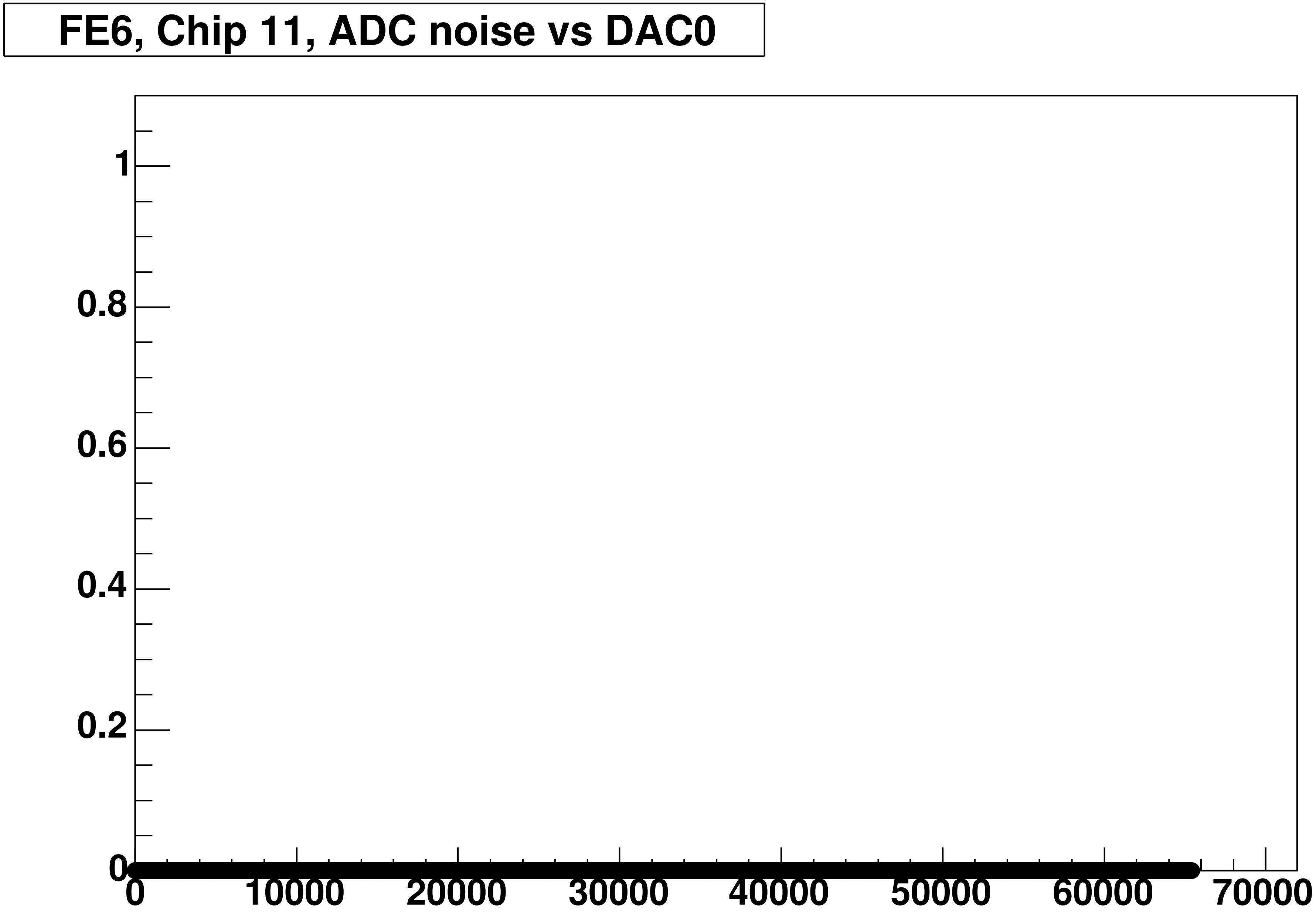

FE6, Chip 10, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

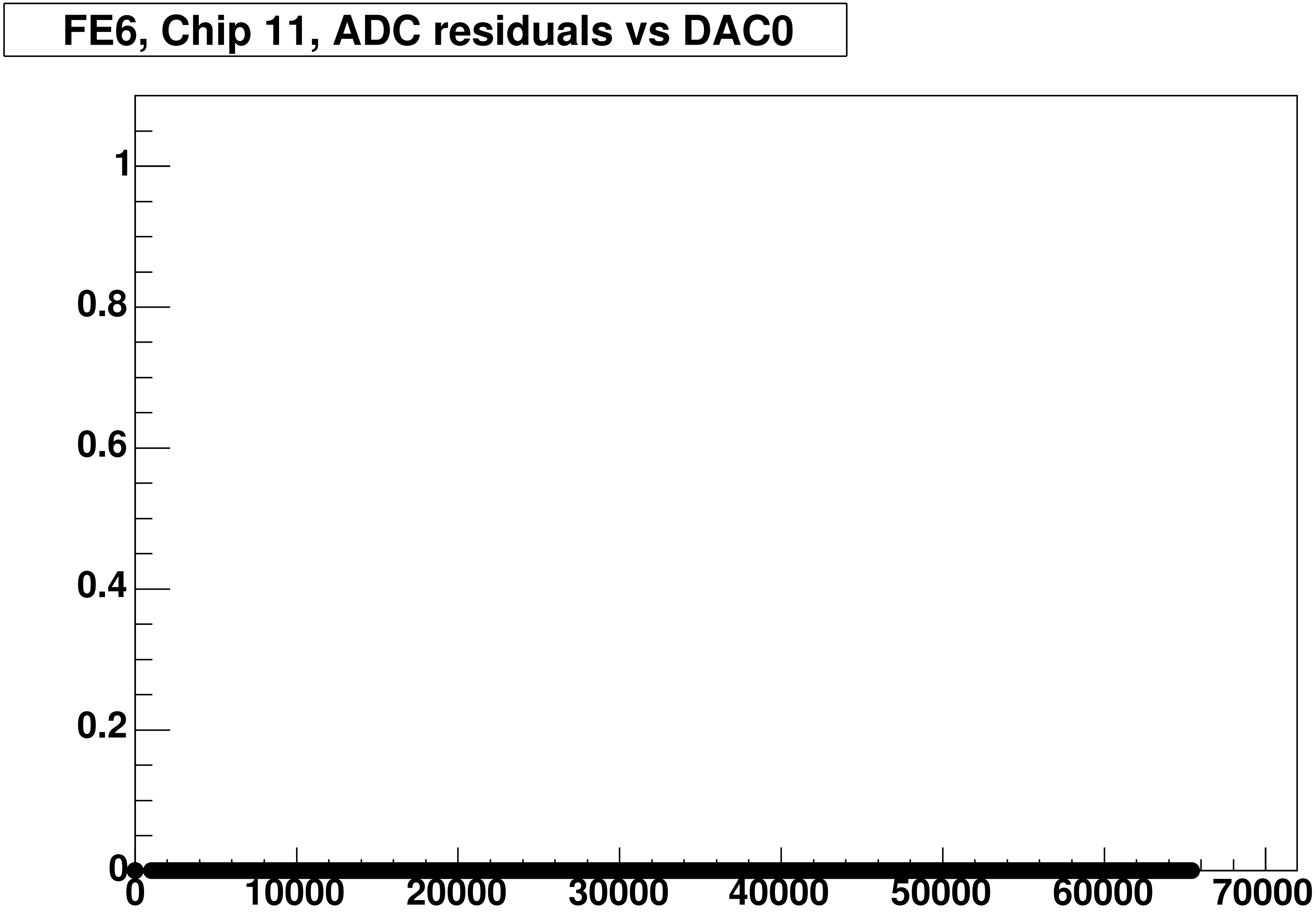
FE6, Chip 10, ADC residuals vs DAC1

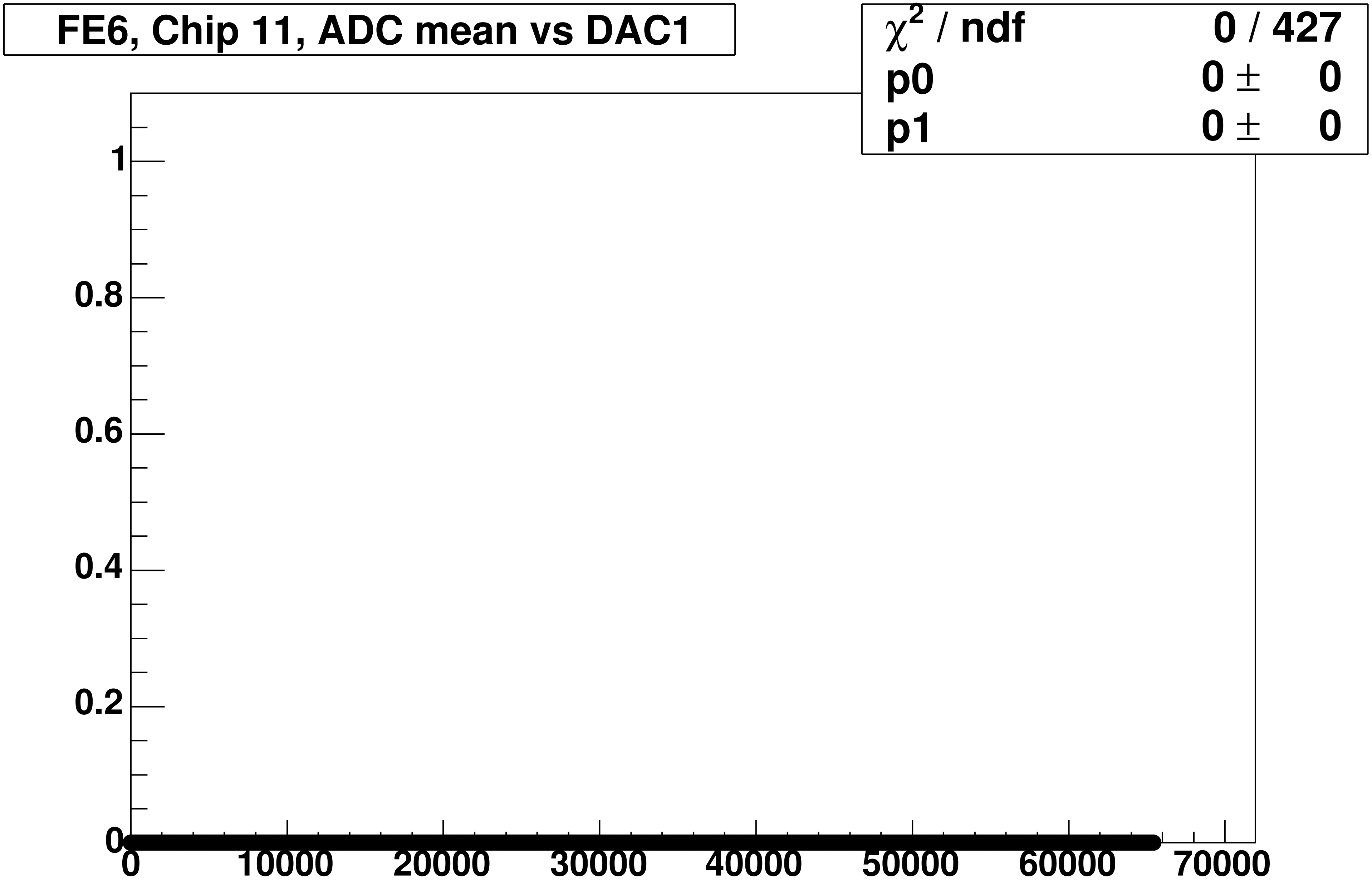




FE6, Chip 11, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 11, ADC noise vs DAC0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 11, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE6, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
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40000
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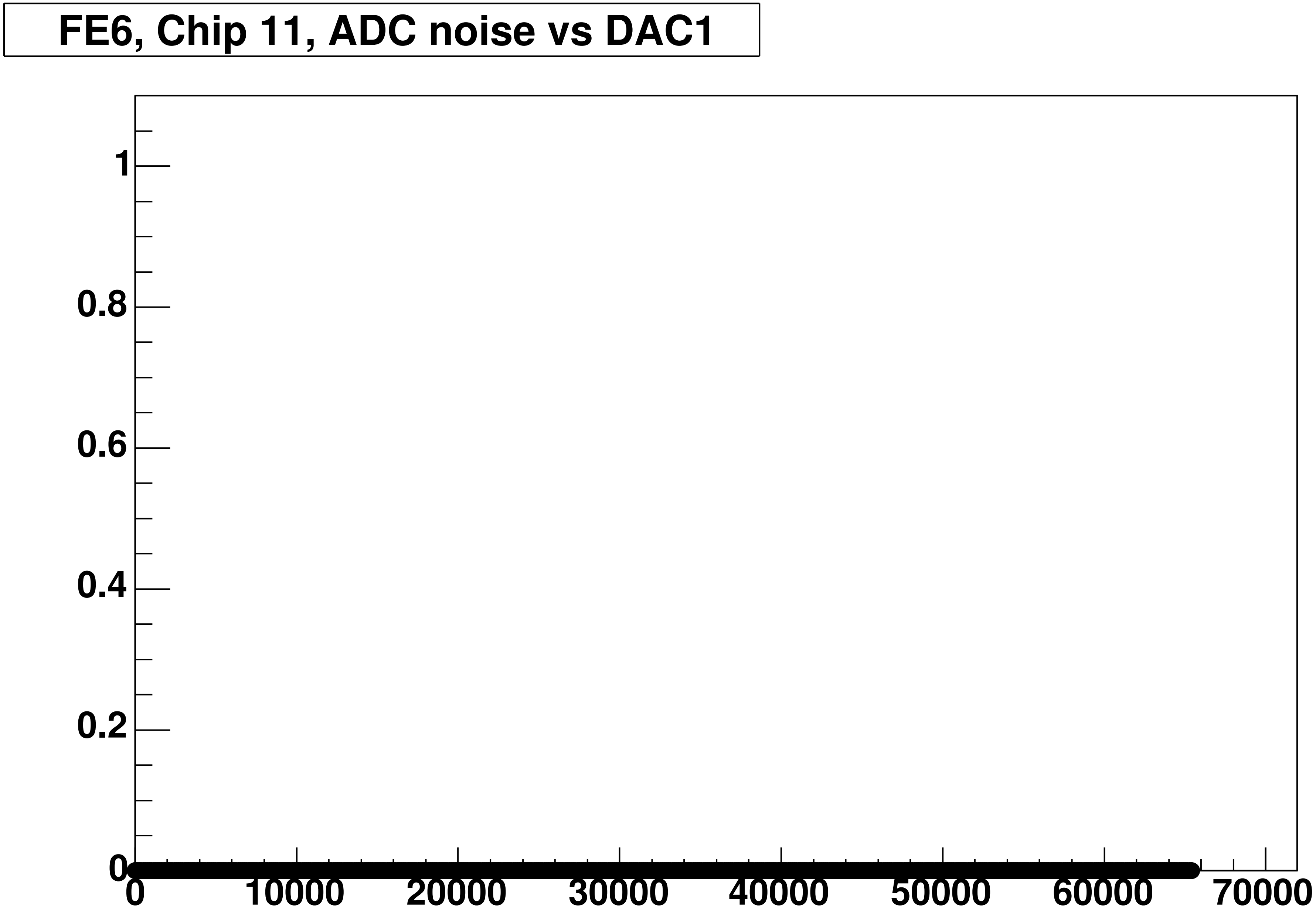
70000


FE6, Chip 11, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
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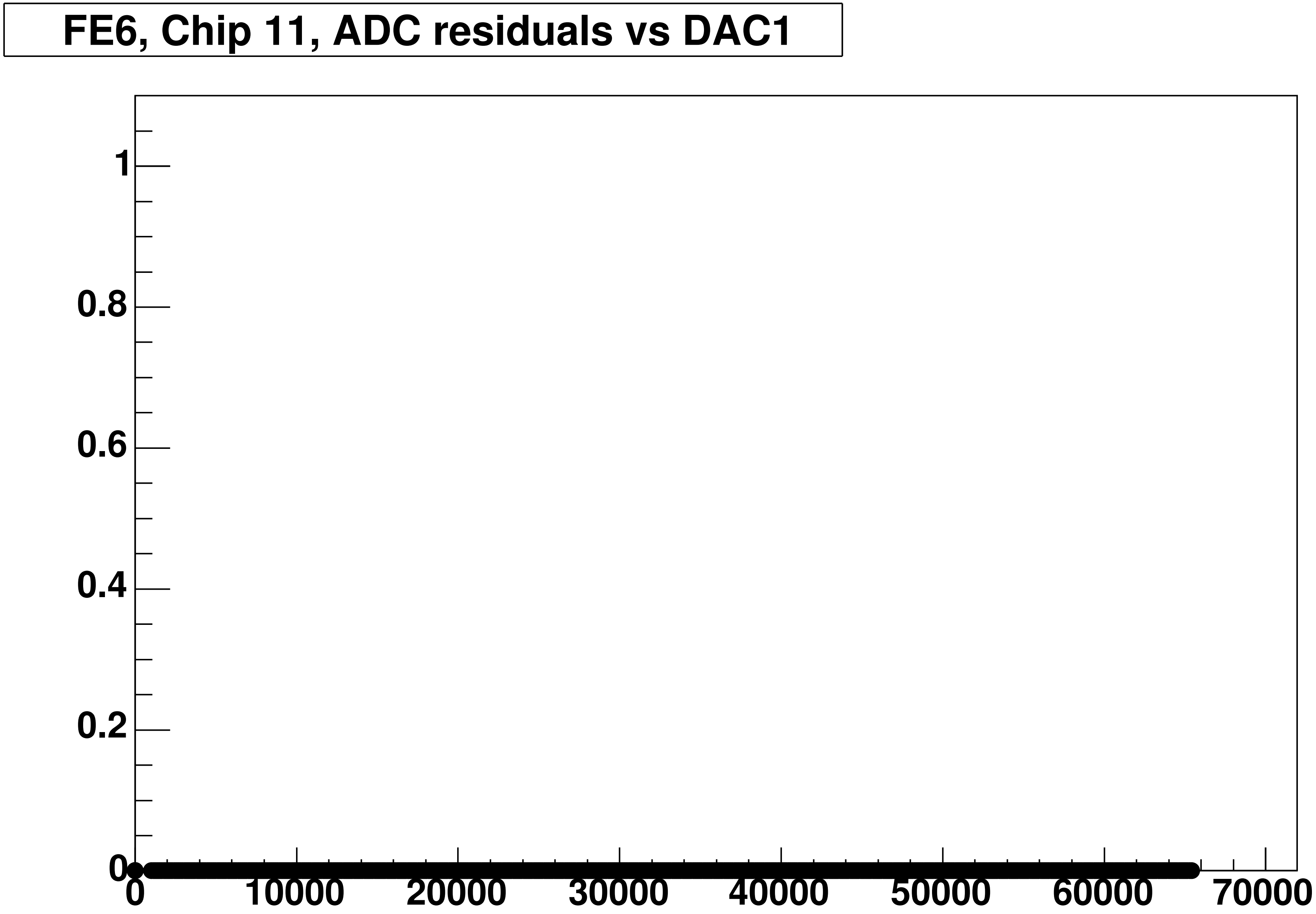
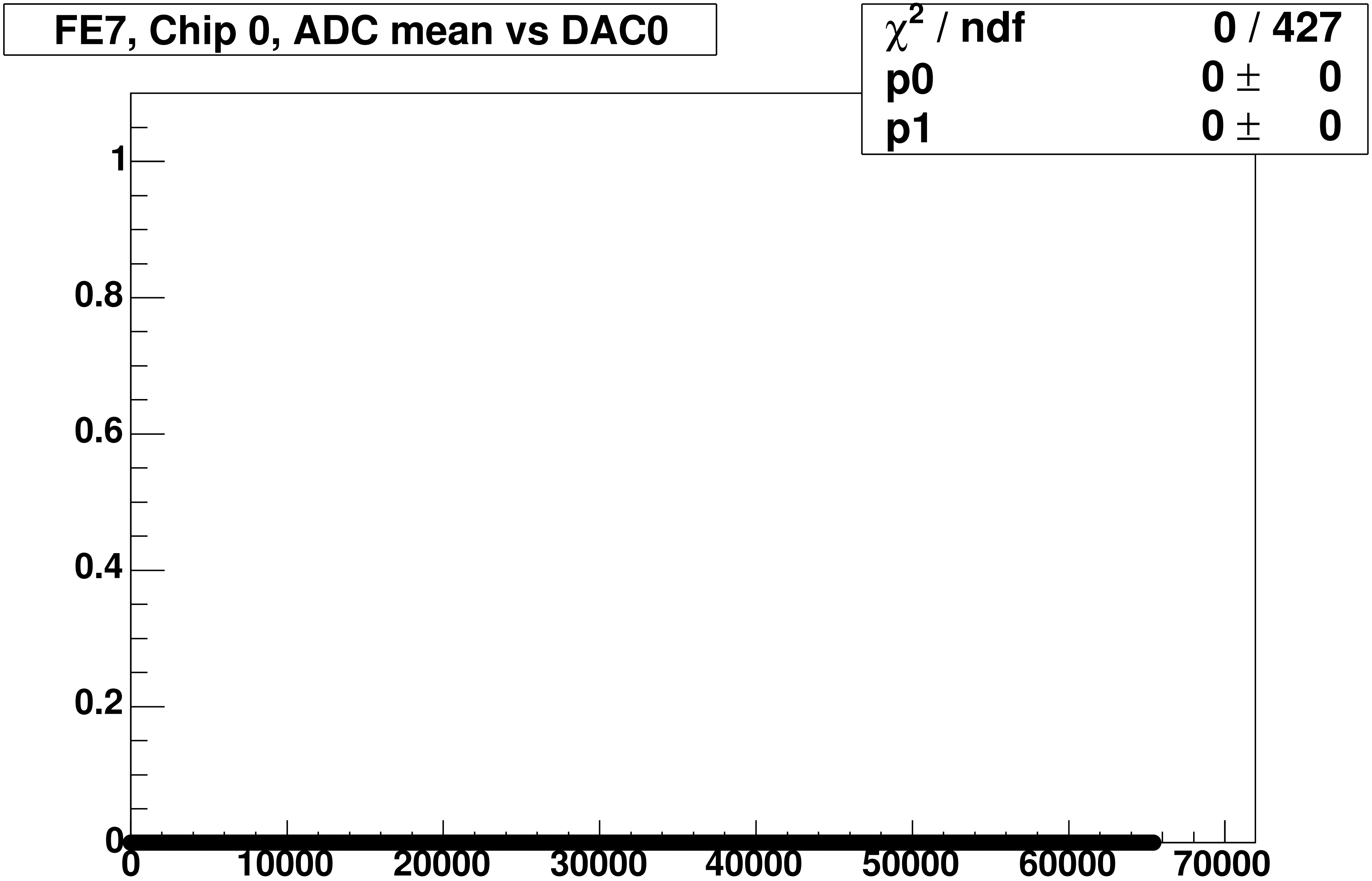
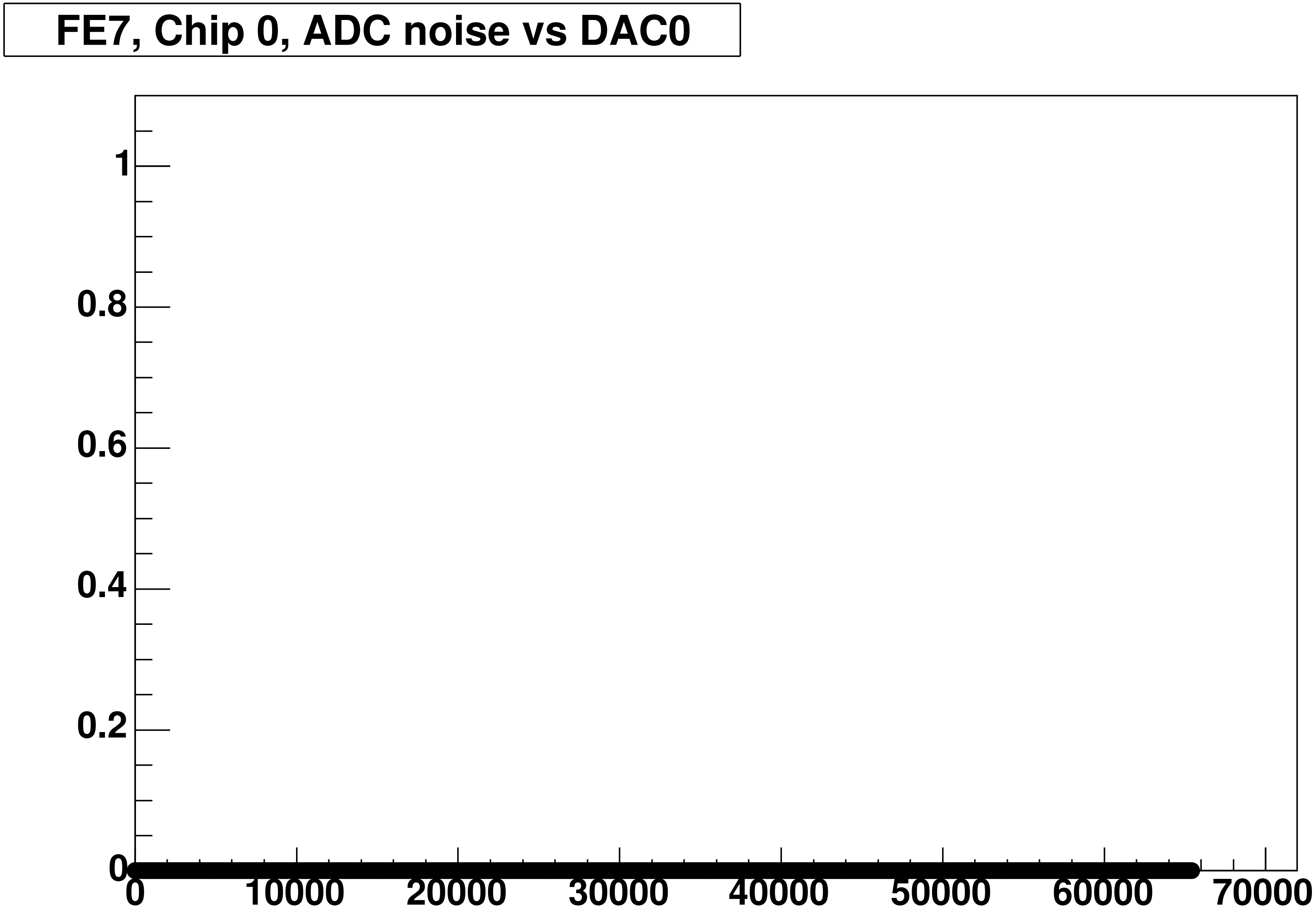
50000
60000
70000


FE6, Chip 11, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



FE7, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE7, Chip 0, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
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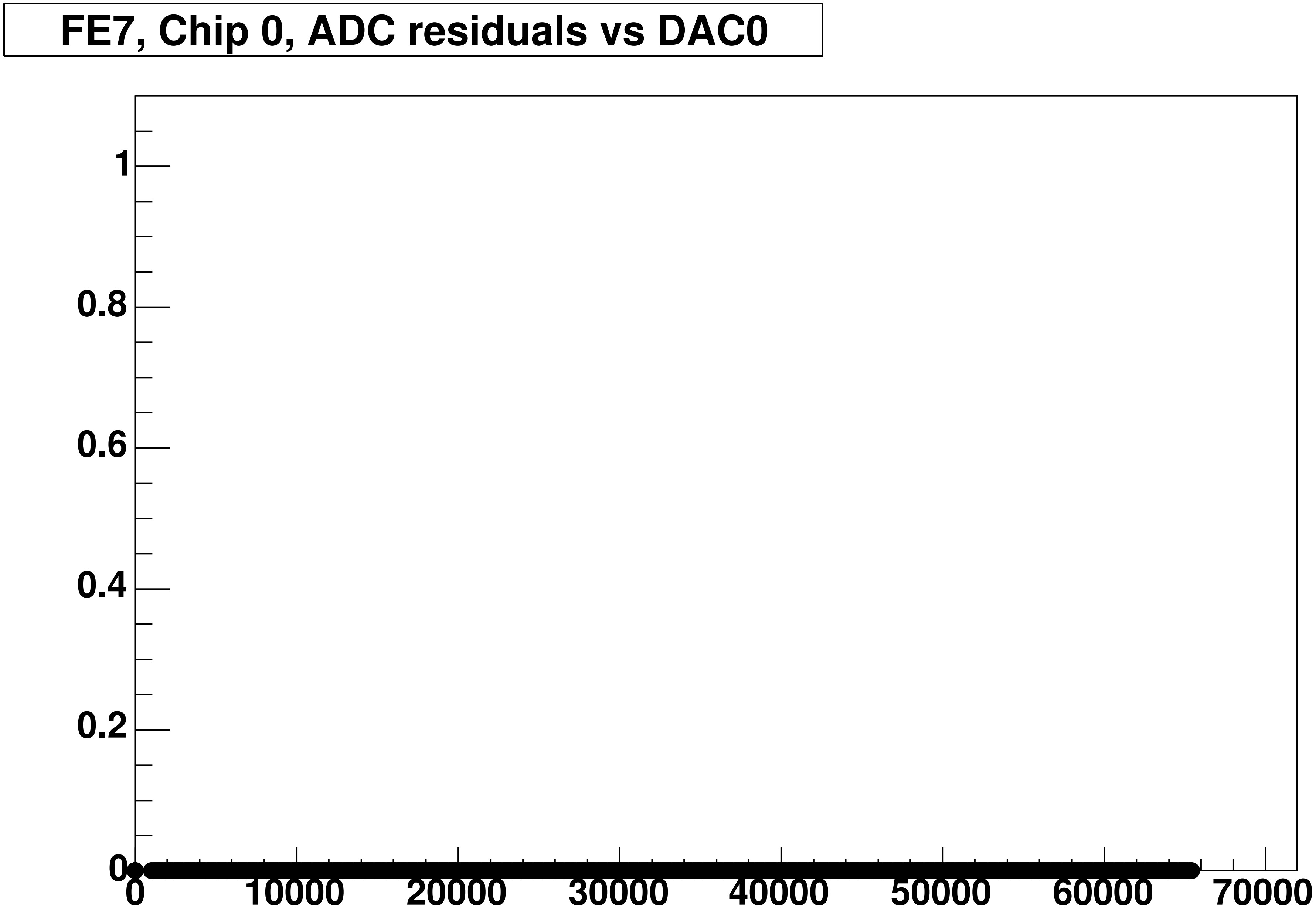
60000
70000



FE7, Chip 0, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
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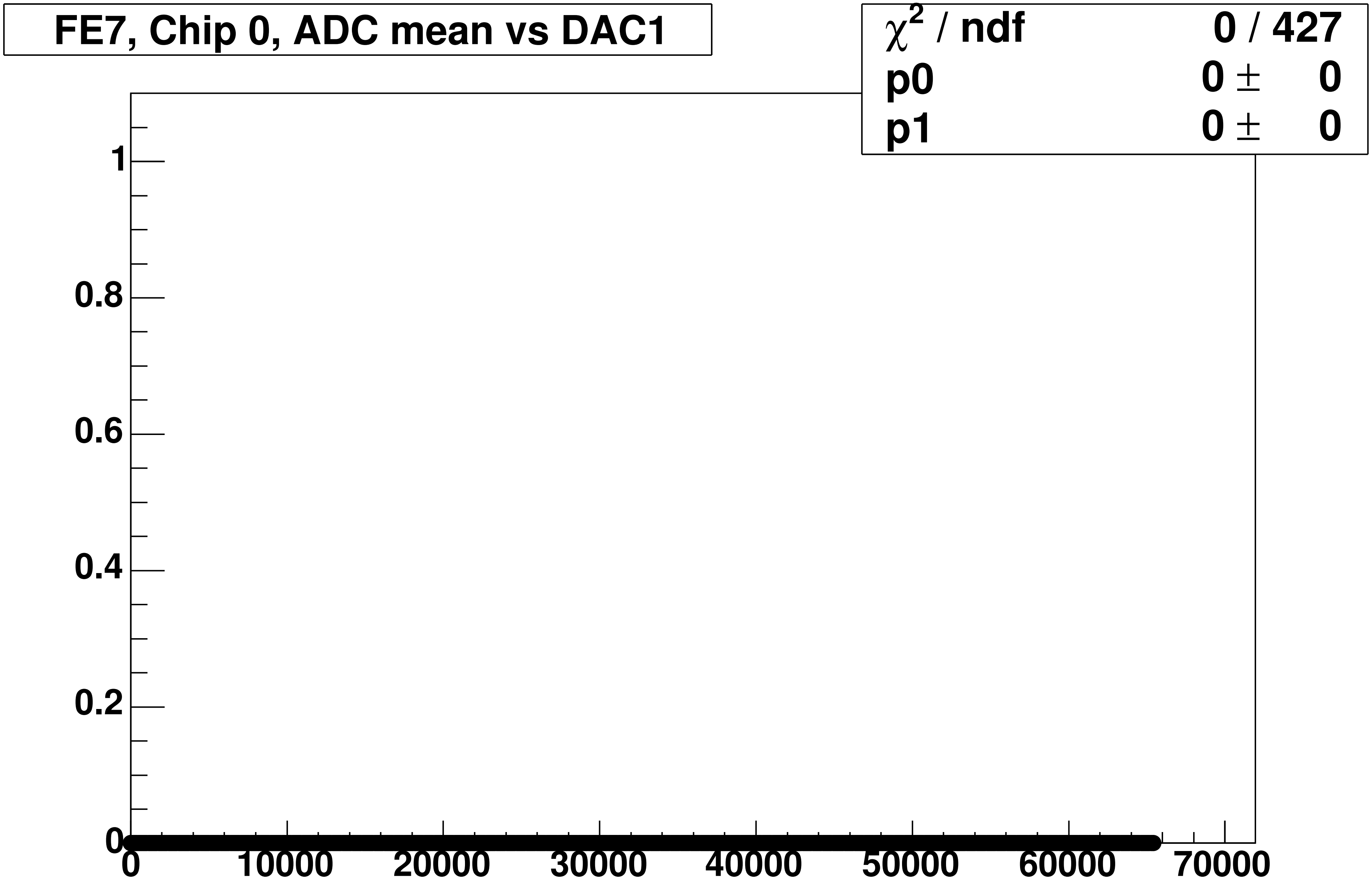
70000


FE7, Chip 0, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
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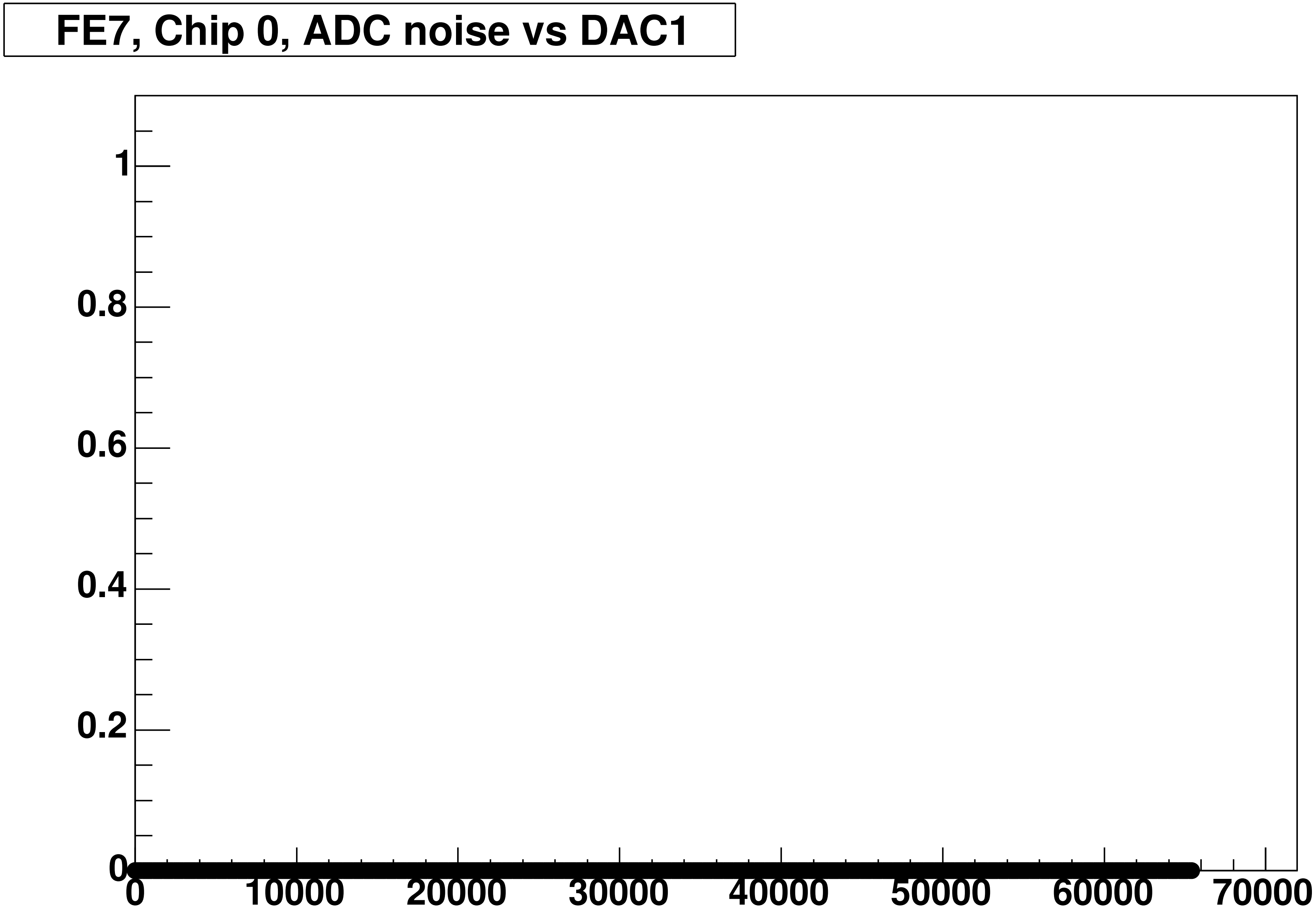
FE7, Chip 0, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
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40000
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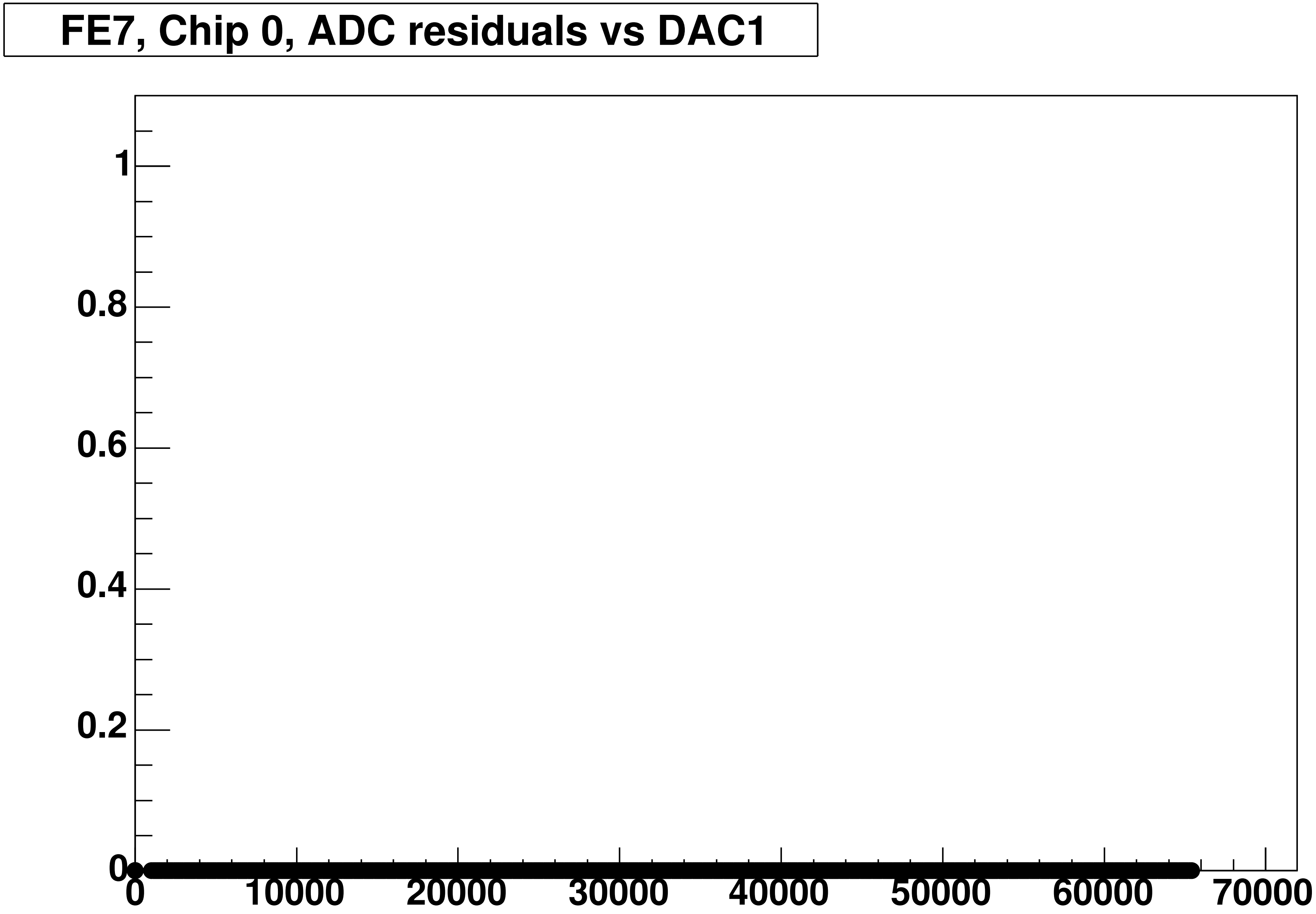
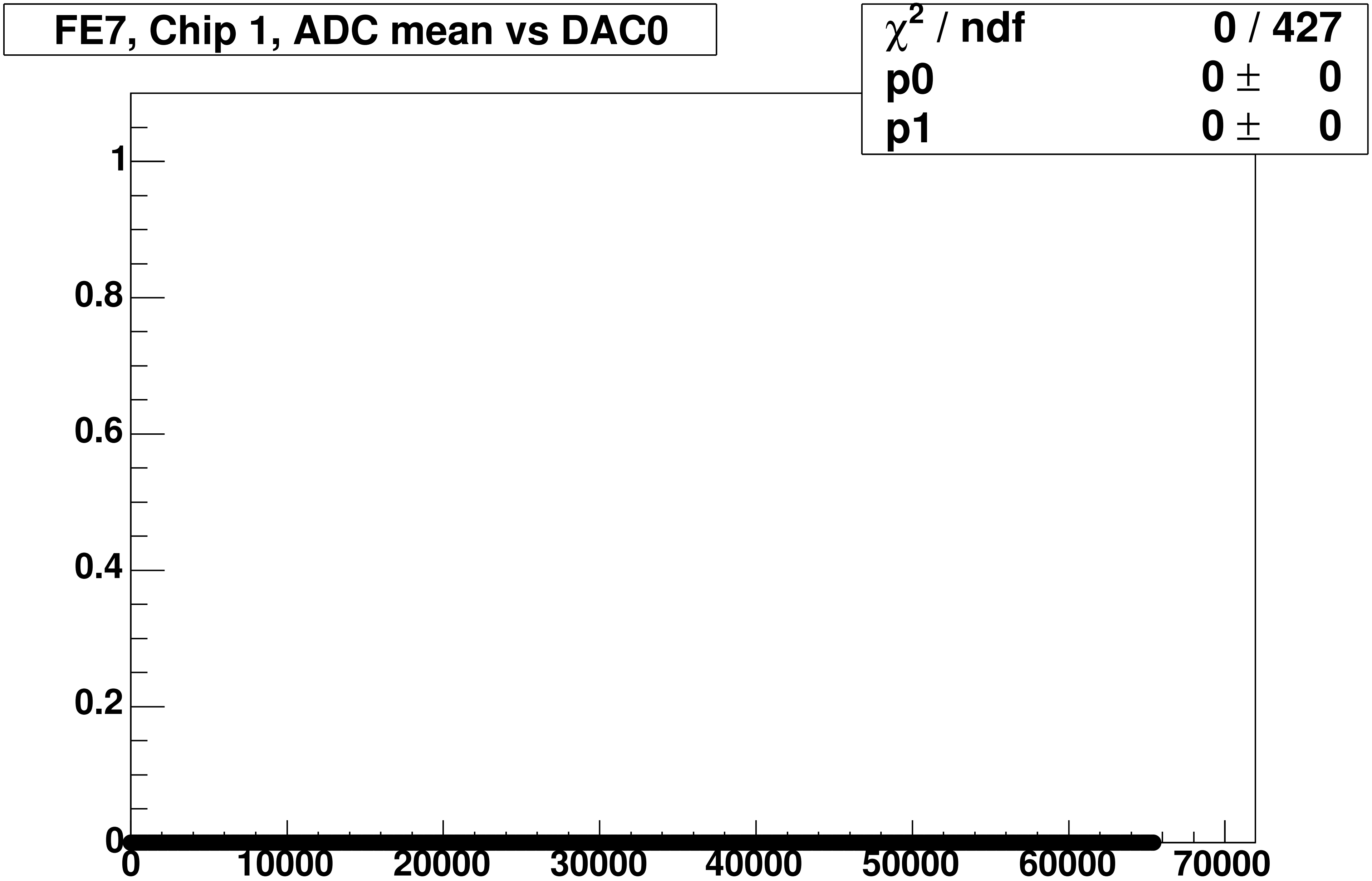
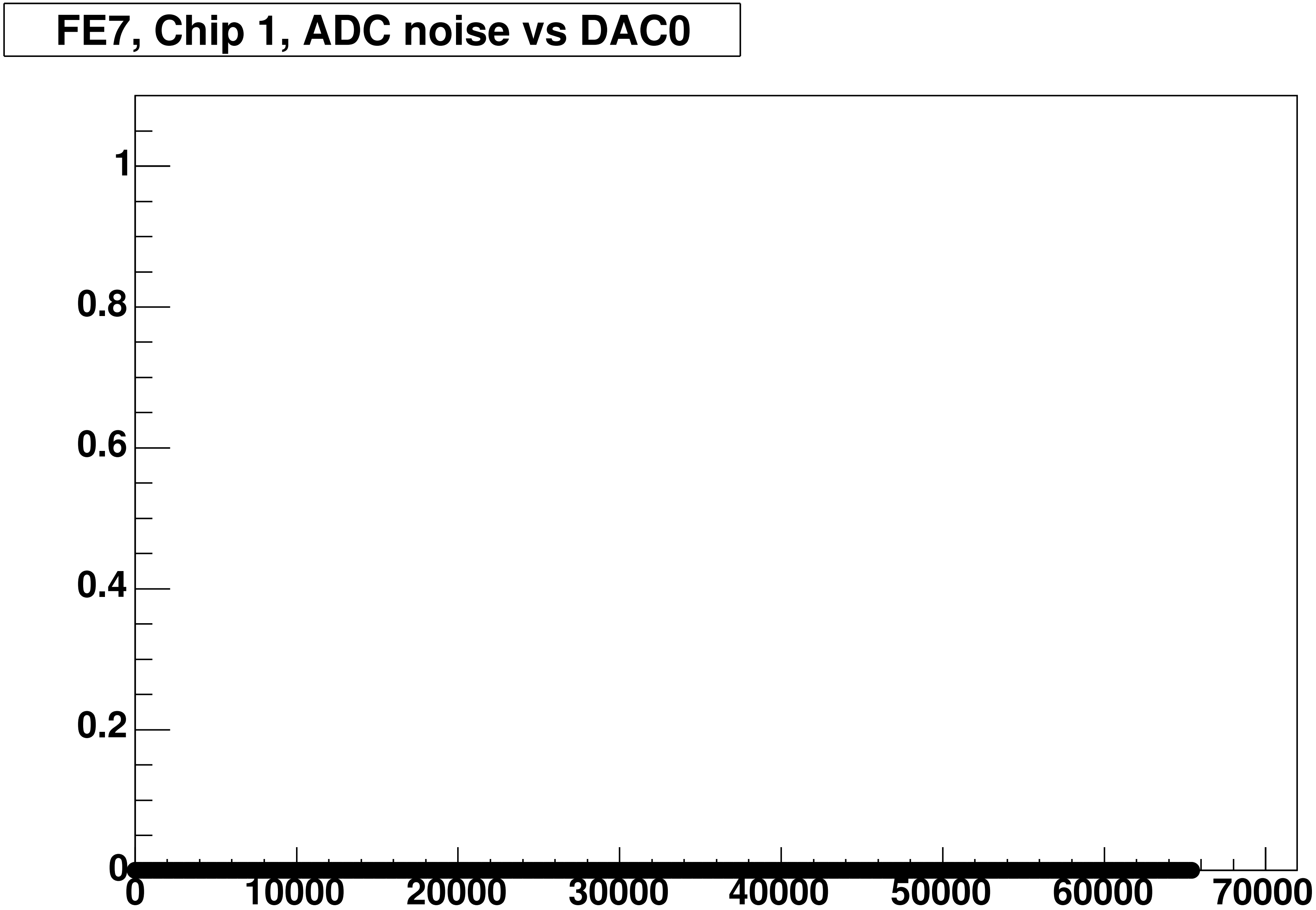
70000


FE7, Chip 0, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



FE7, Chip 1, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000


FE7, Chip 1, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
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20000
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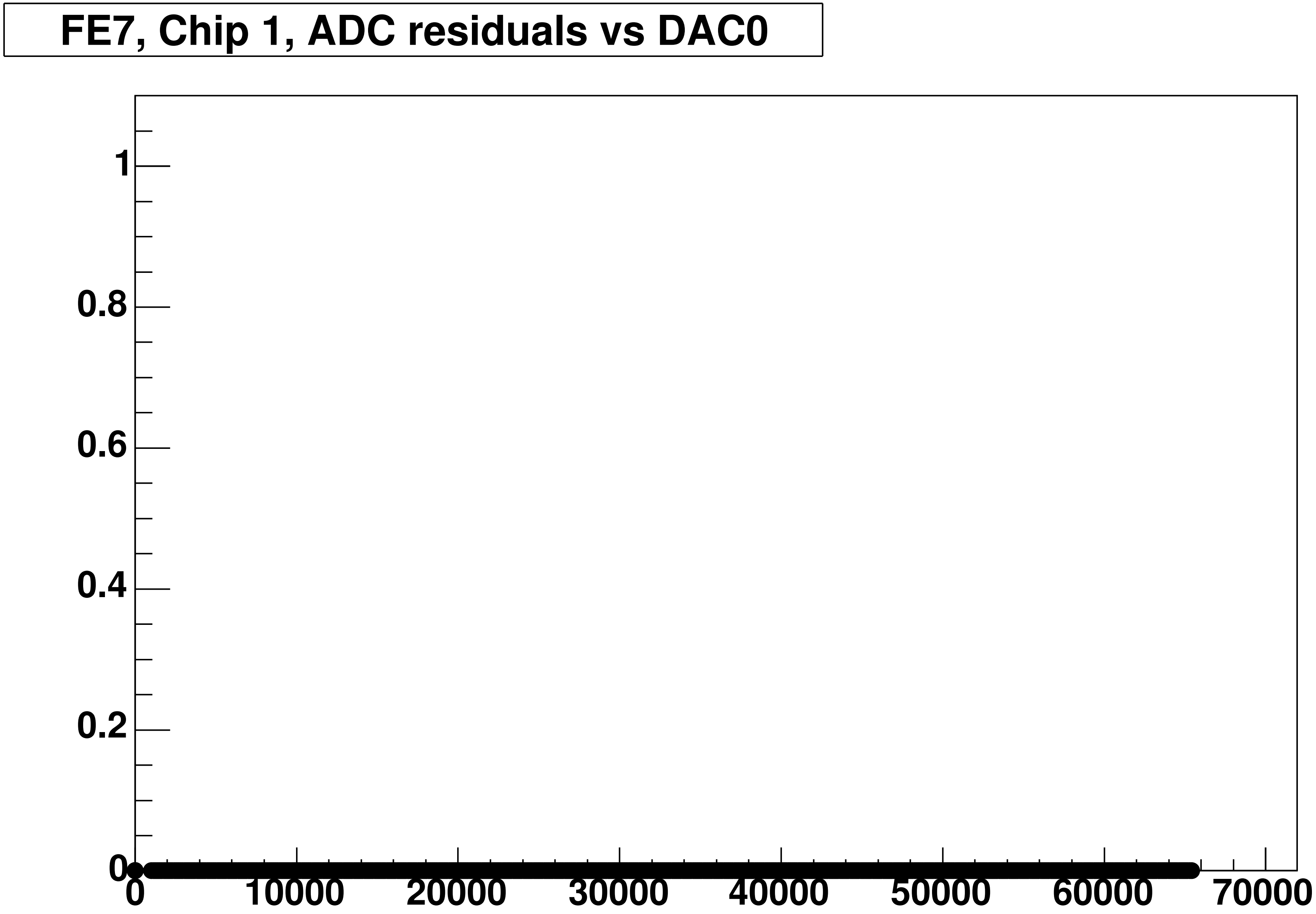
FE7, Chip 1, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
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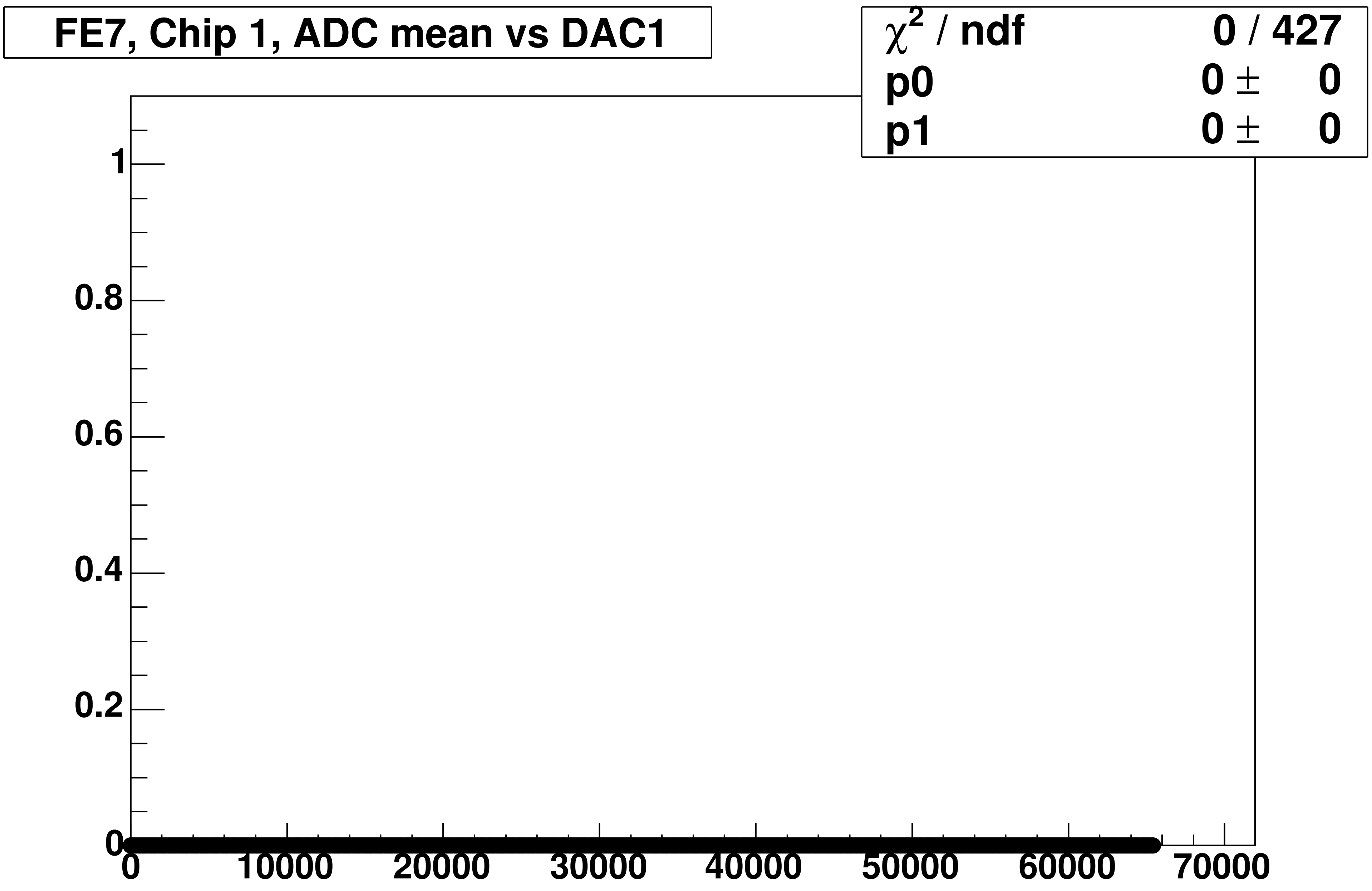
70000


FE7, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
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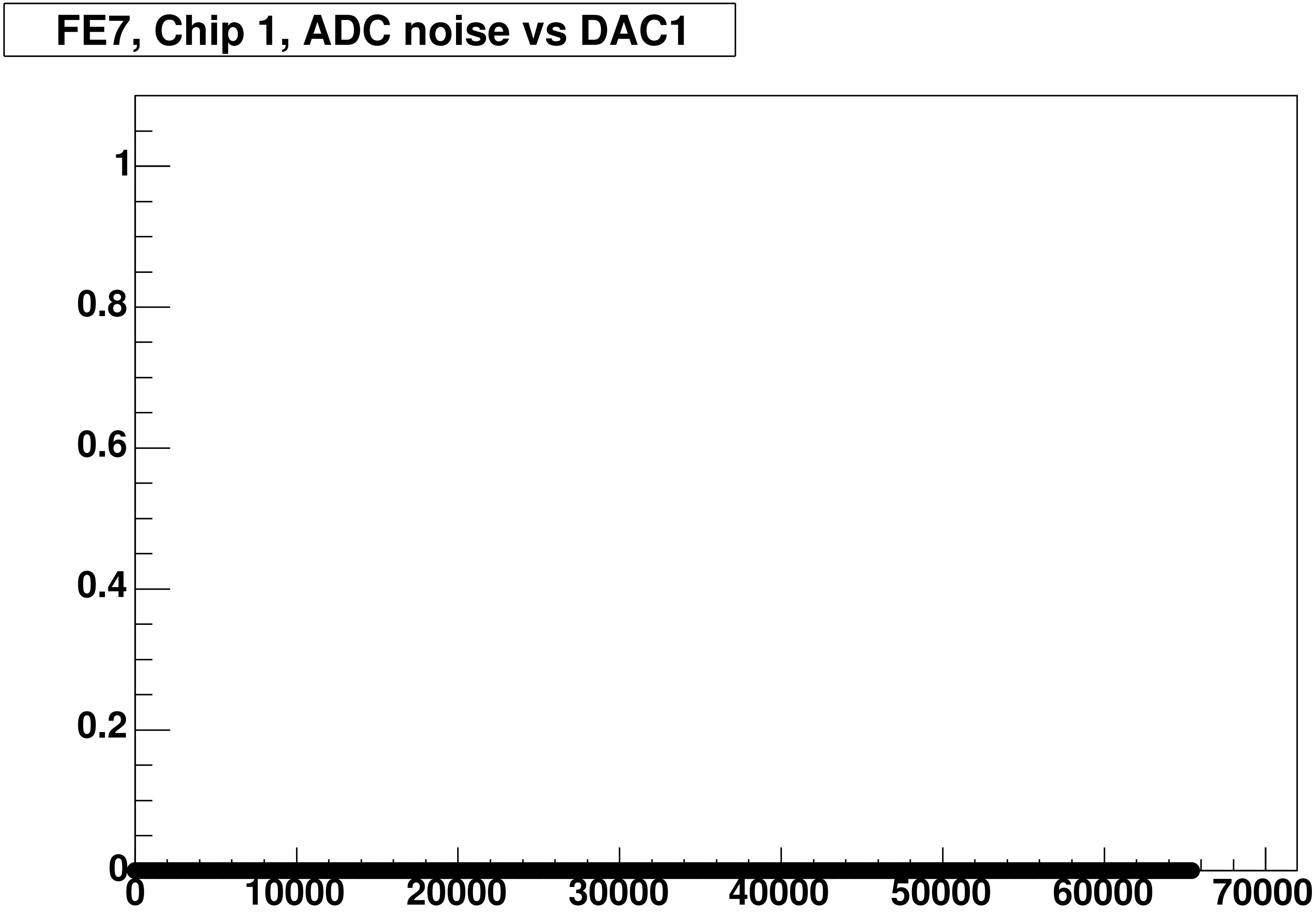
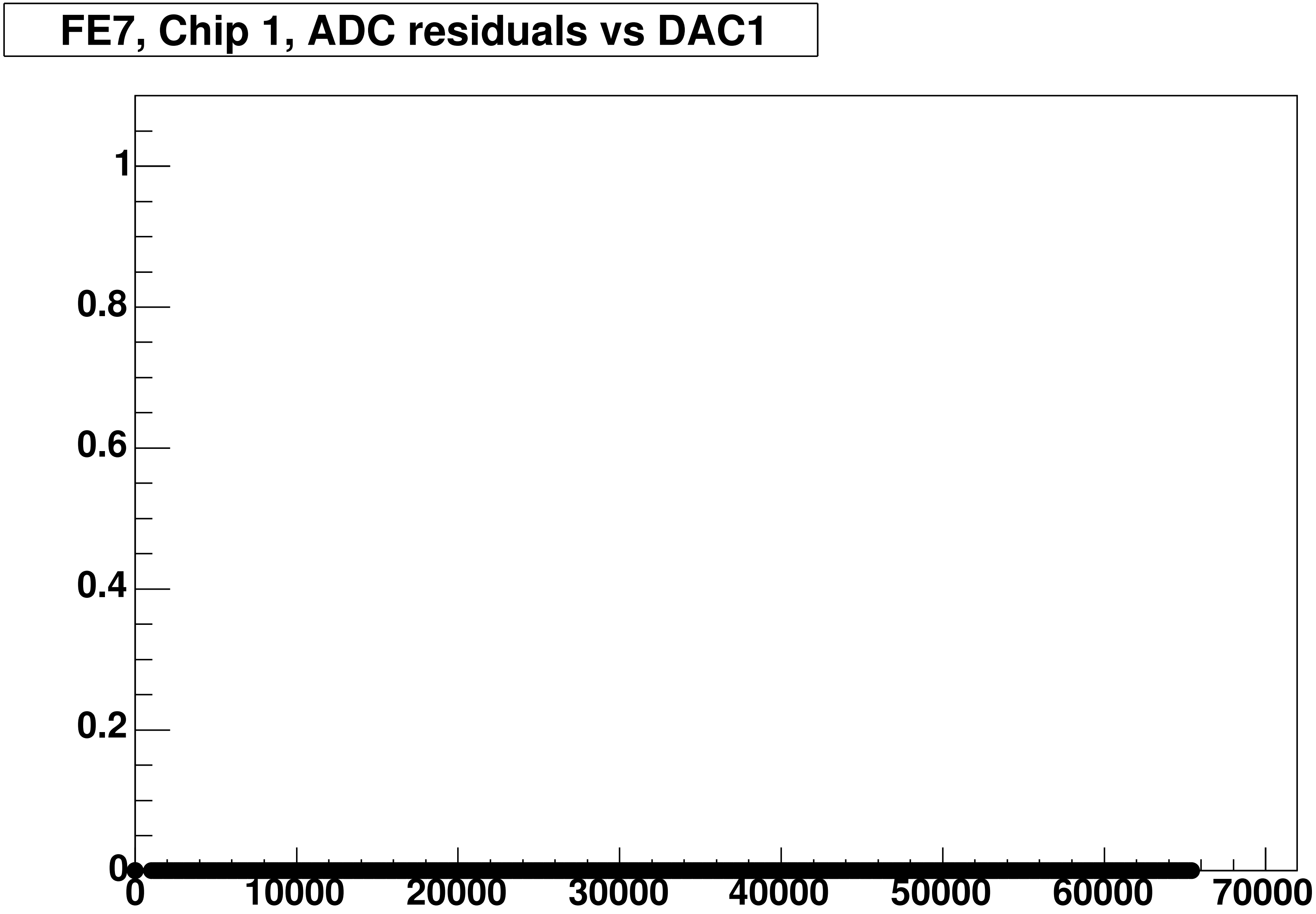
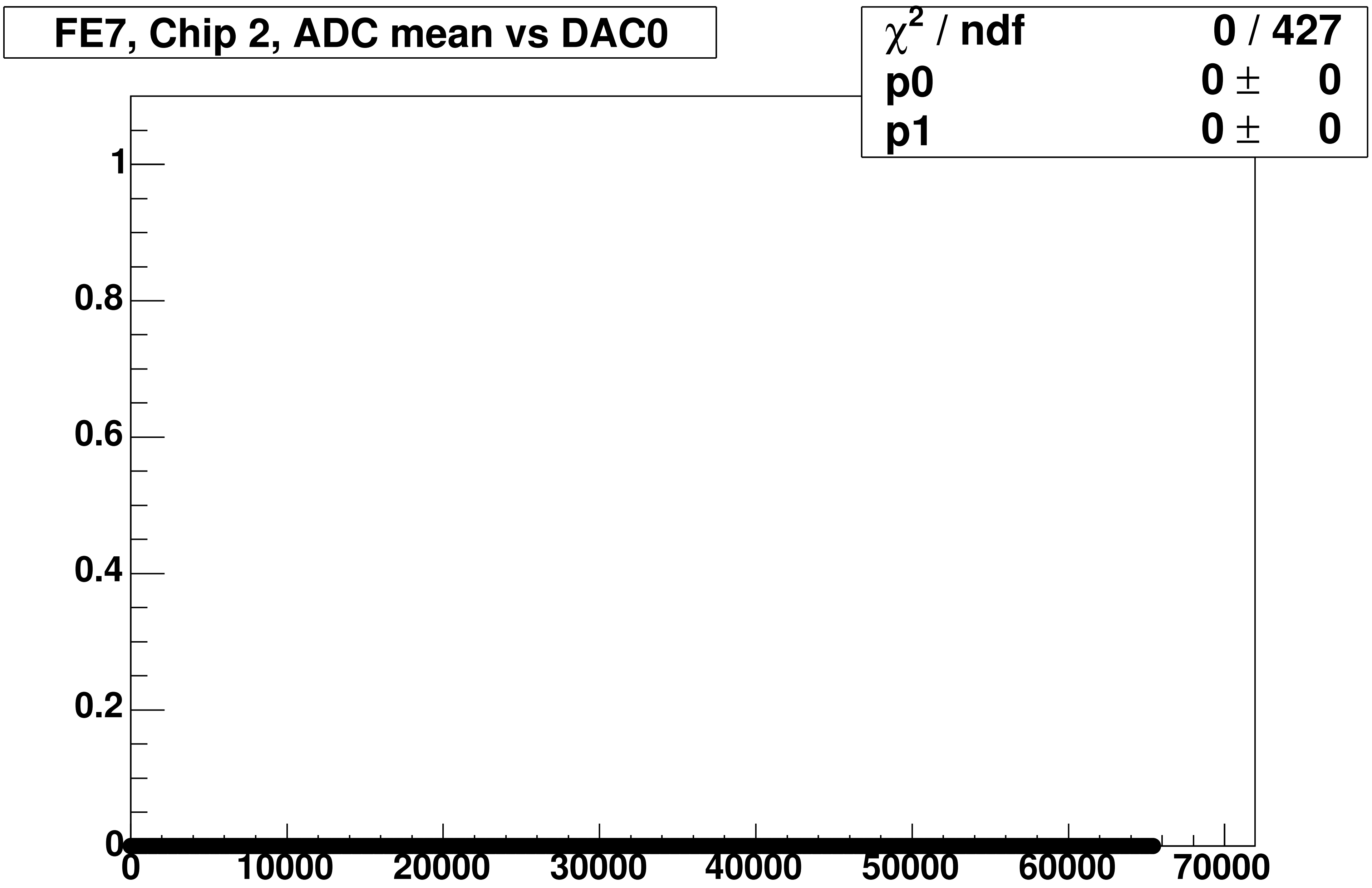
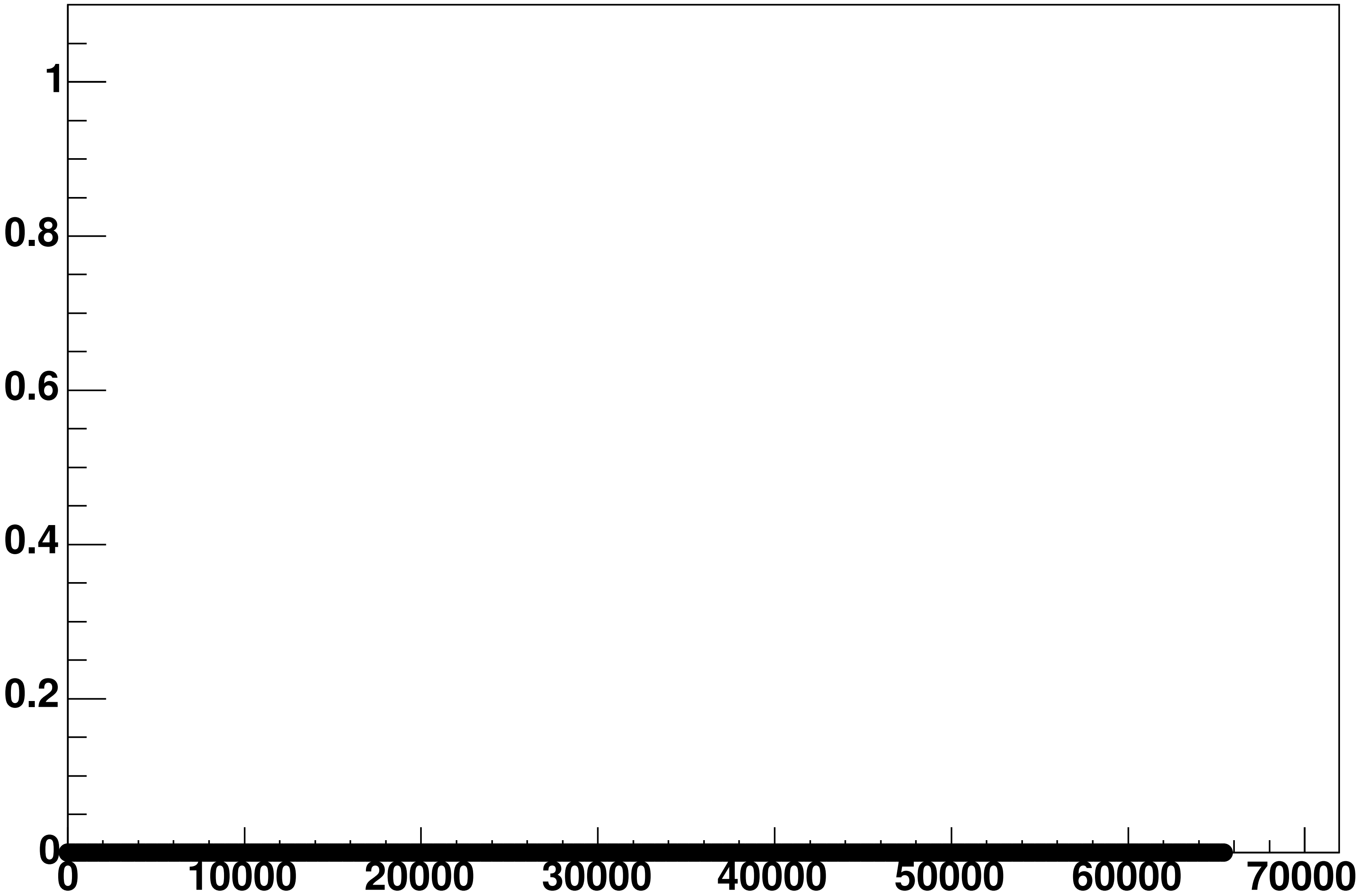

FE7, Chip 1, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

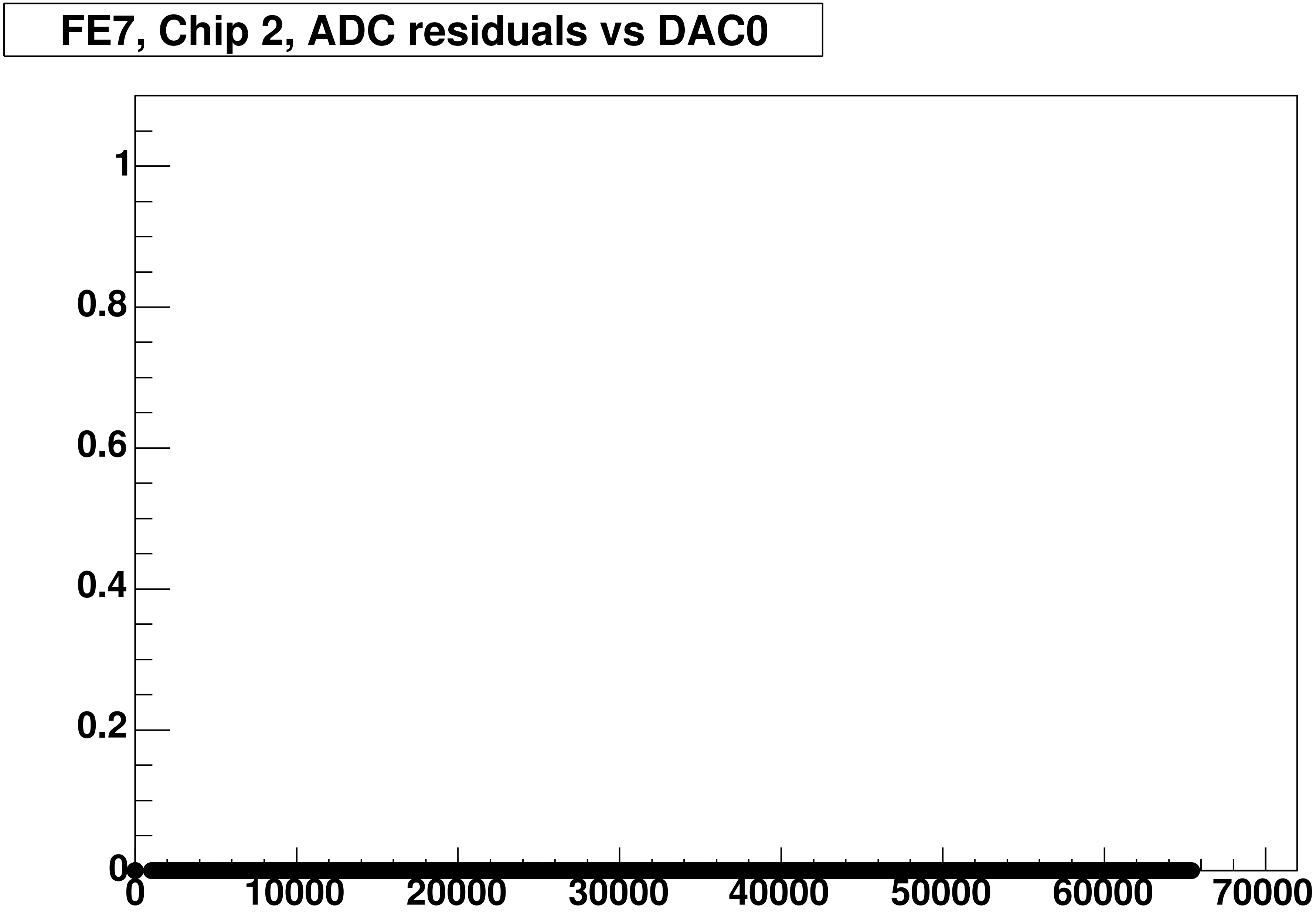

FE7, Chip 1, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

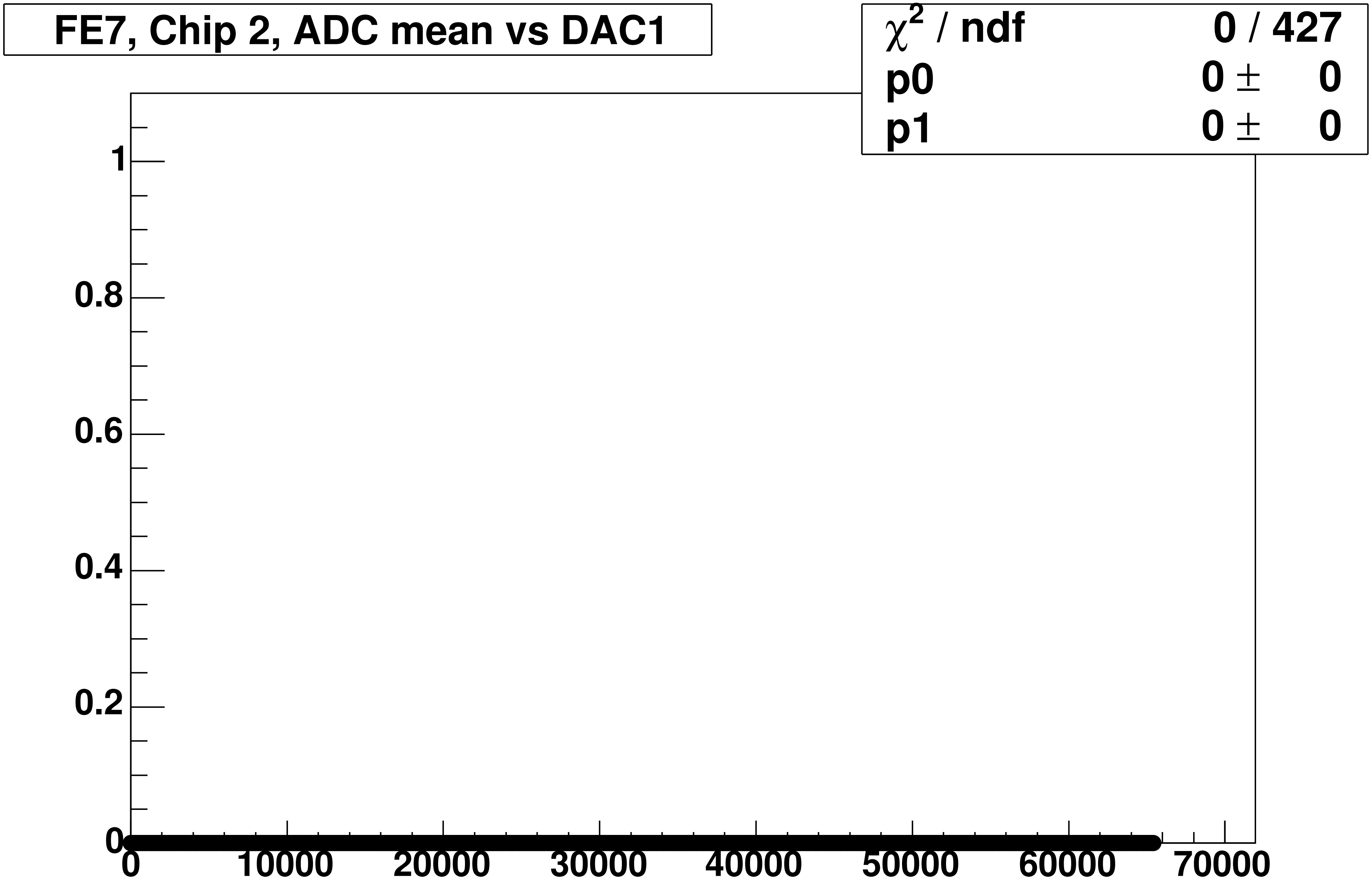


FE7, Chip 2, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

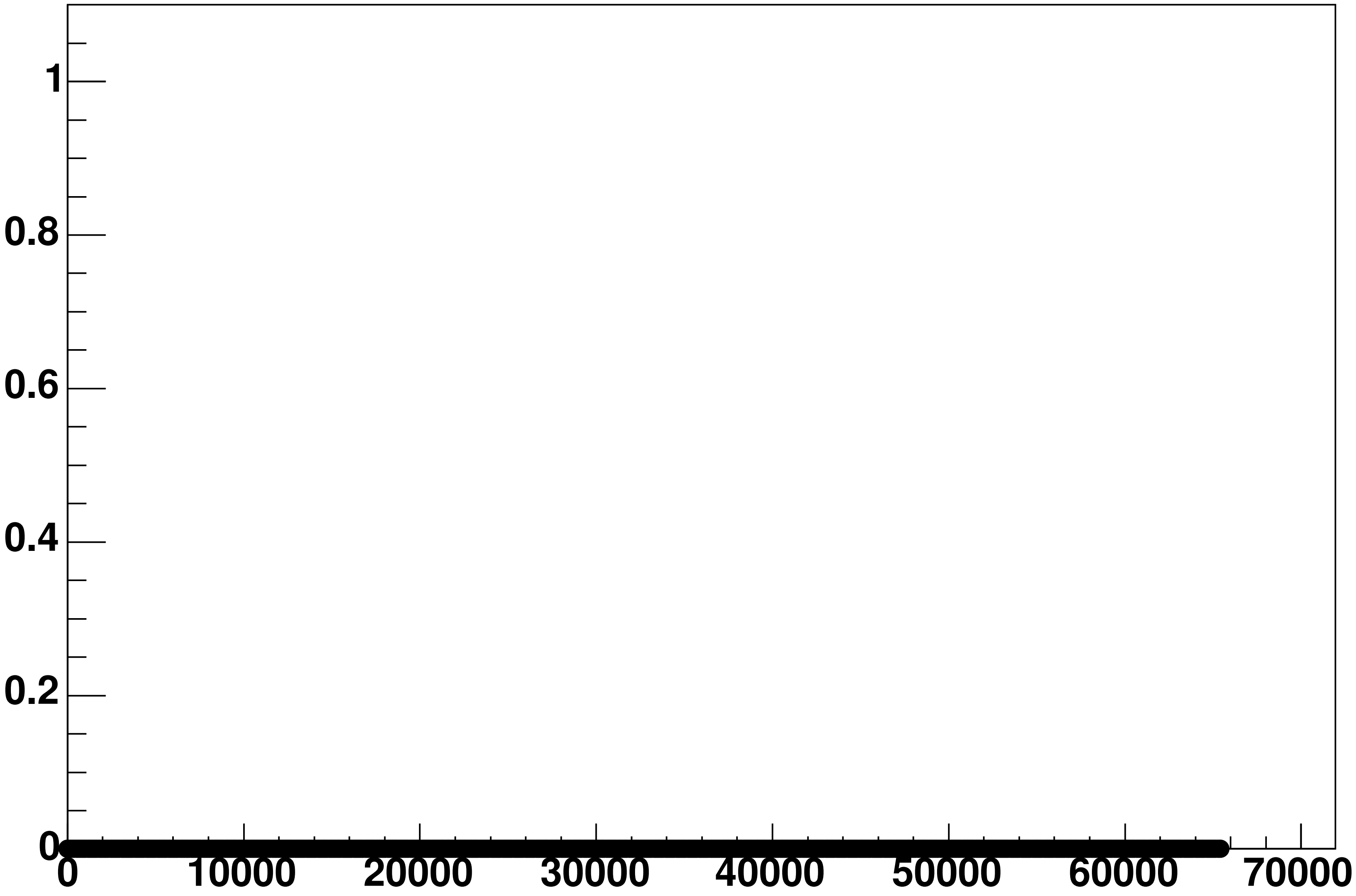
FE7, Chip 2, ADC noise vs DAC0

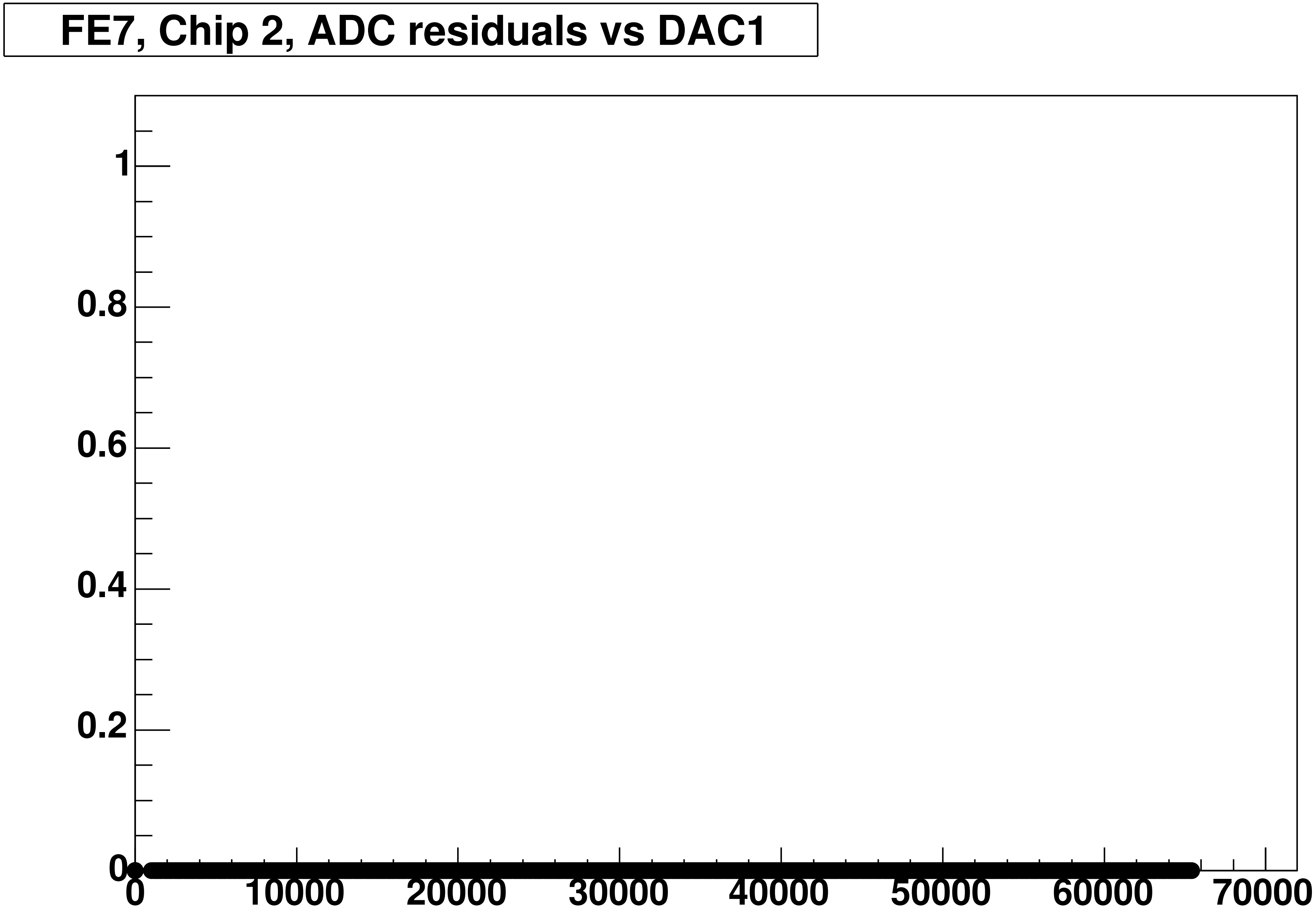


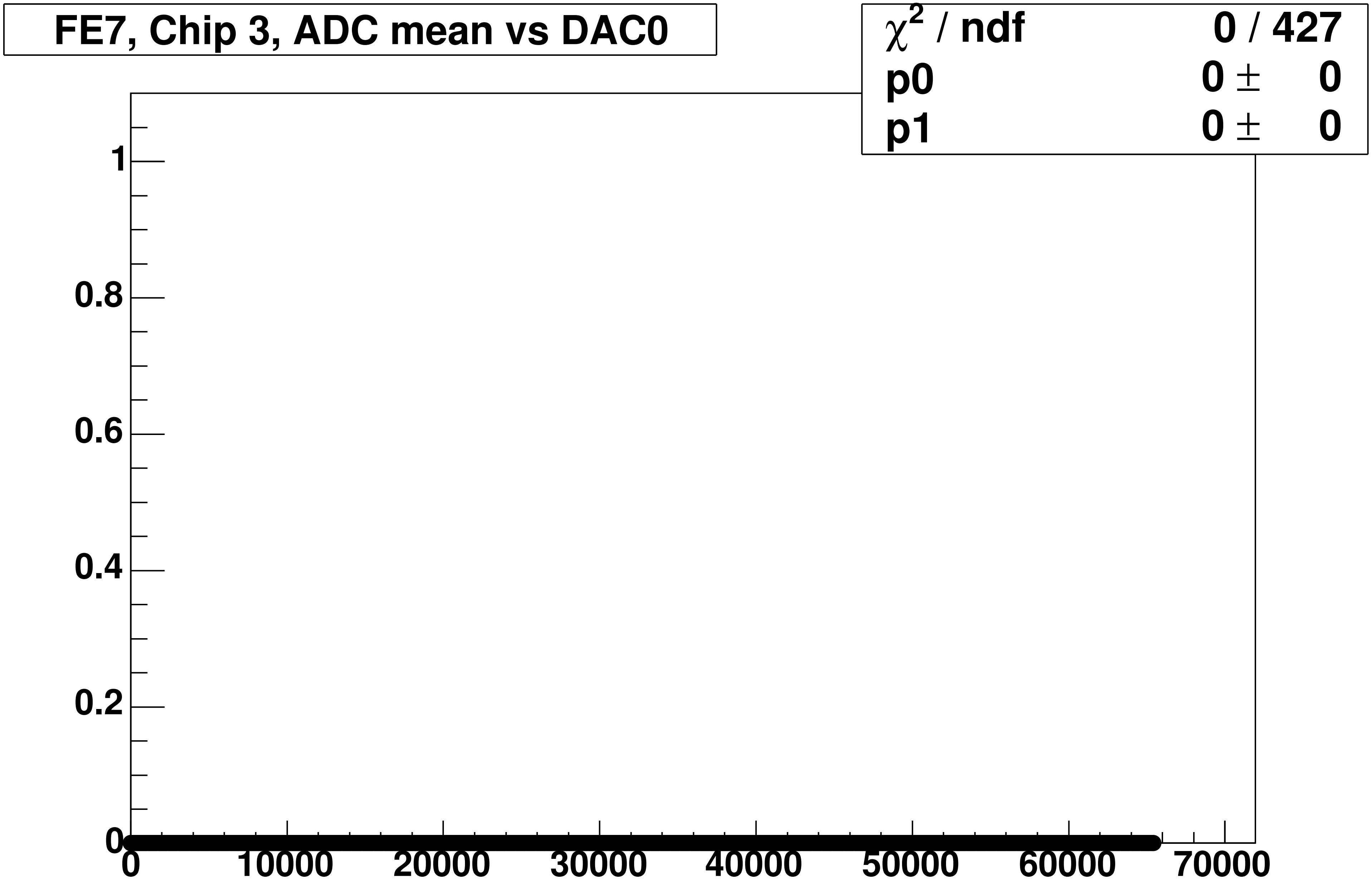

FE7, Chip 2, ADC residuals vs DAC0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000


FE7, Chip 2, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

FE7, Chip 2, ADC noise vs DAC1

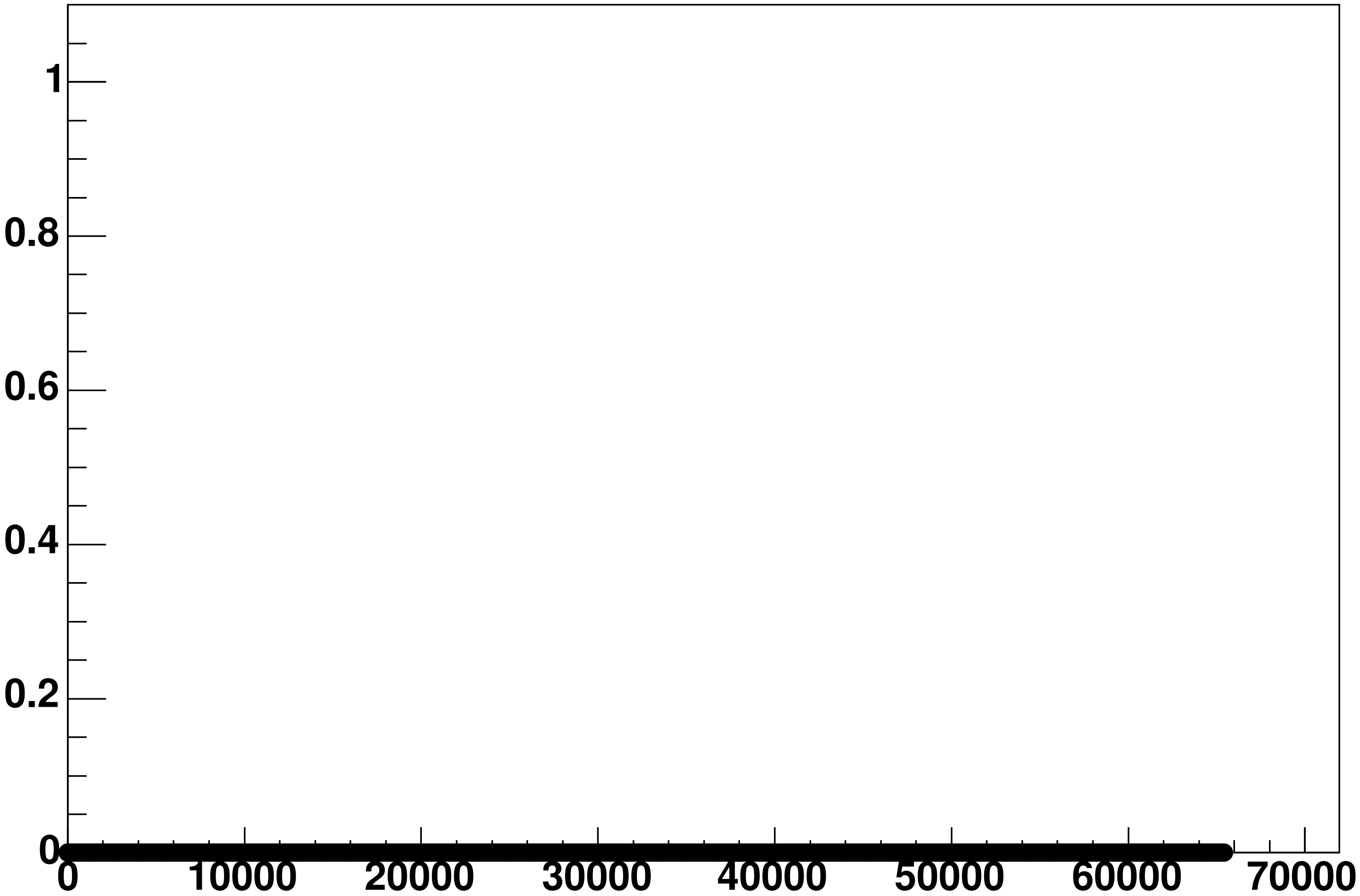


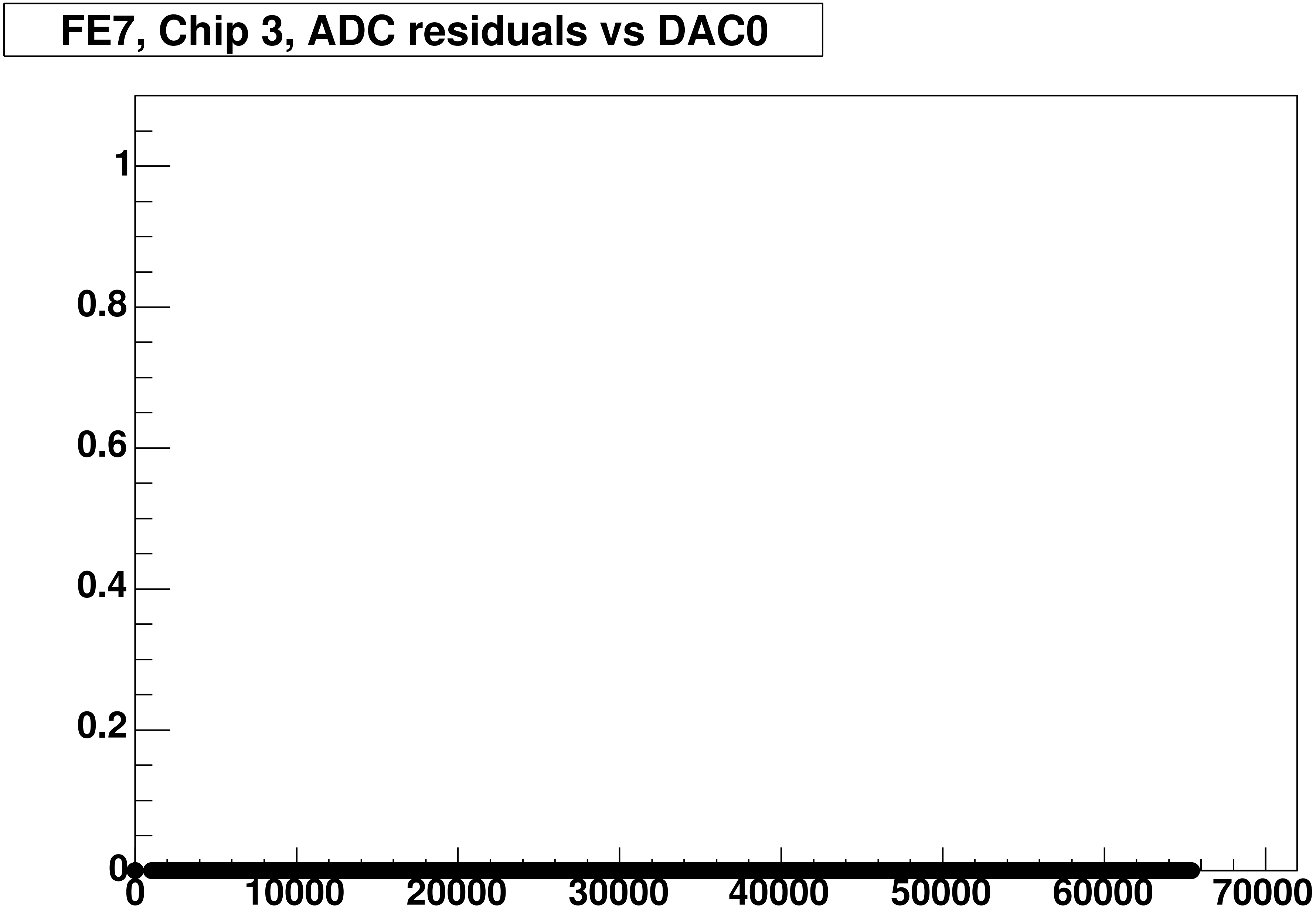

FE7, Chip 2, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

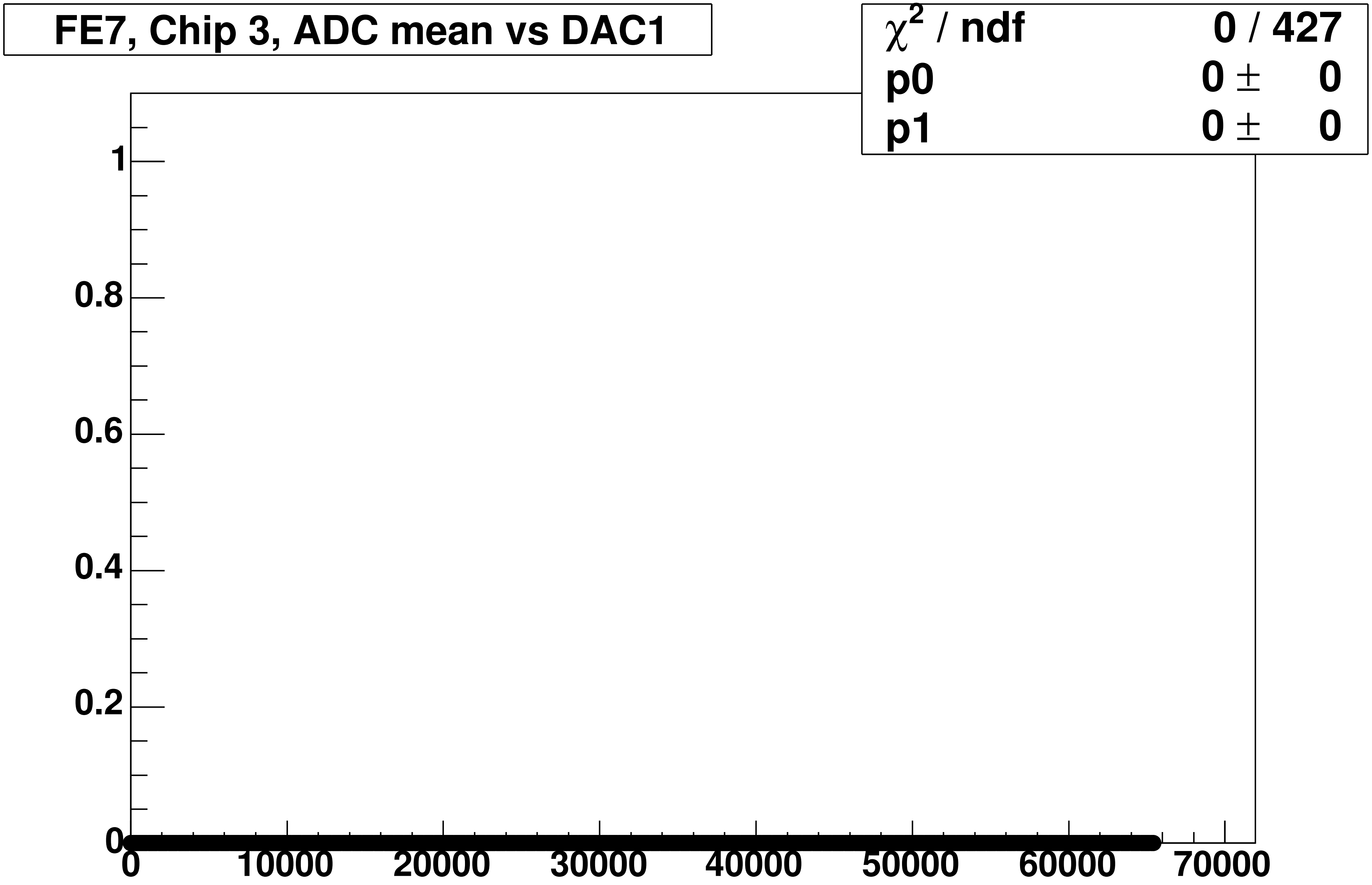


FE7, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

FE7, Chip 3, ADC noise vs DAC0

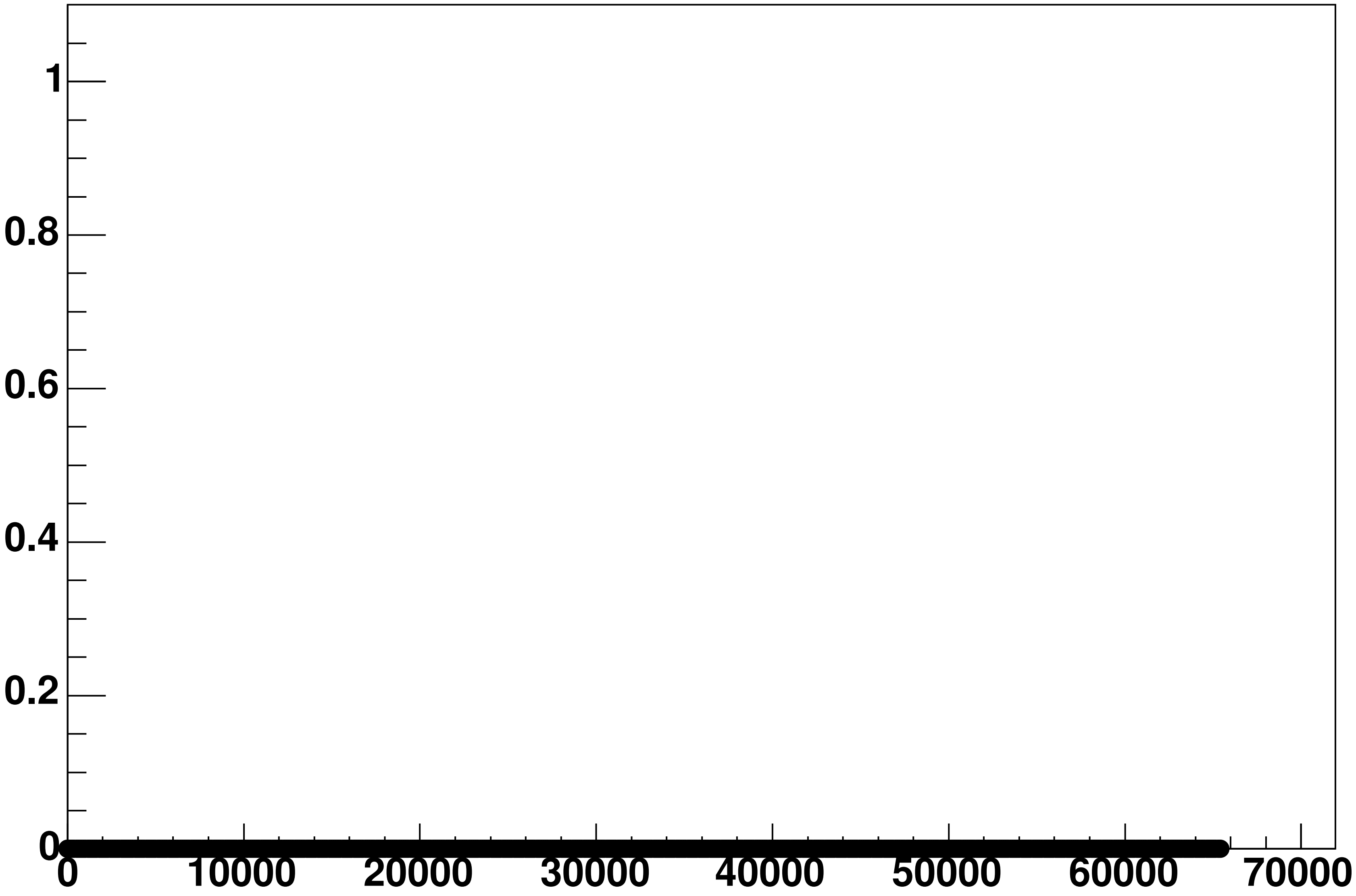


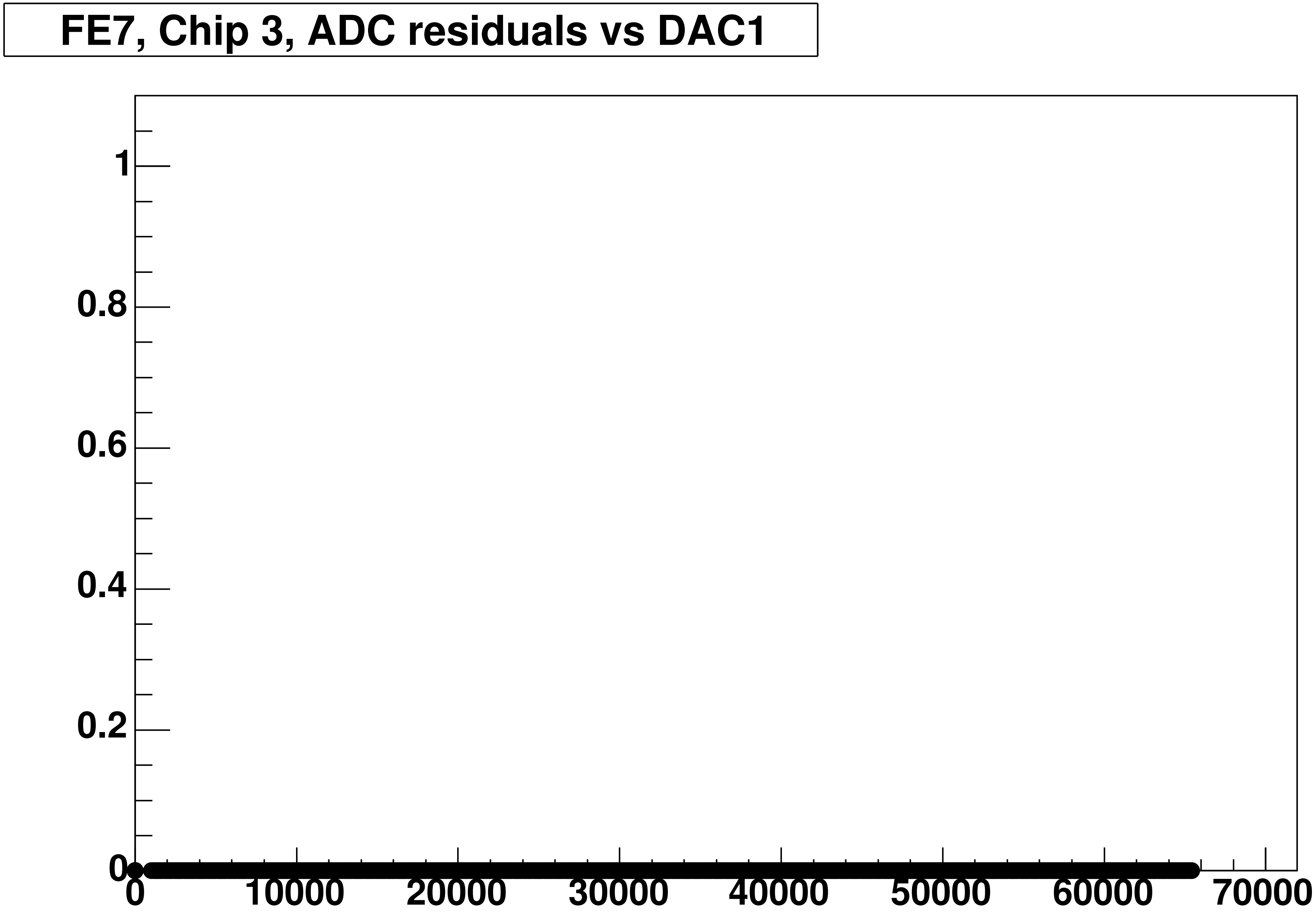

FE7, Chip 3, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

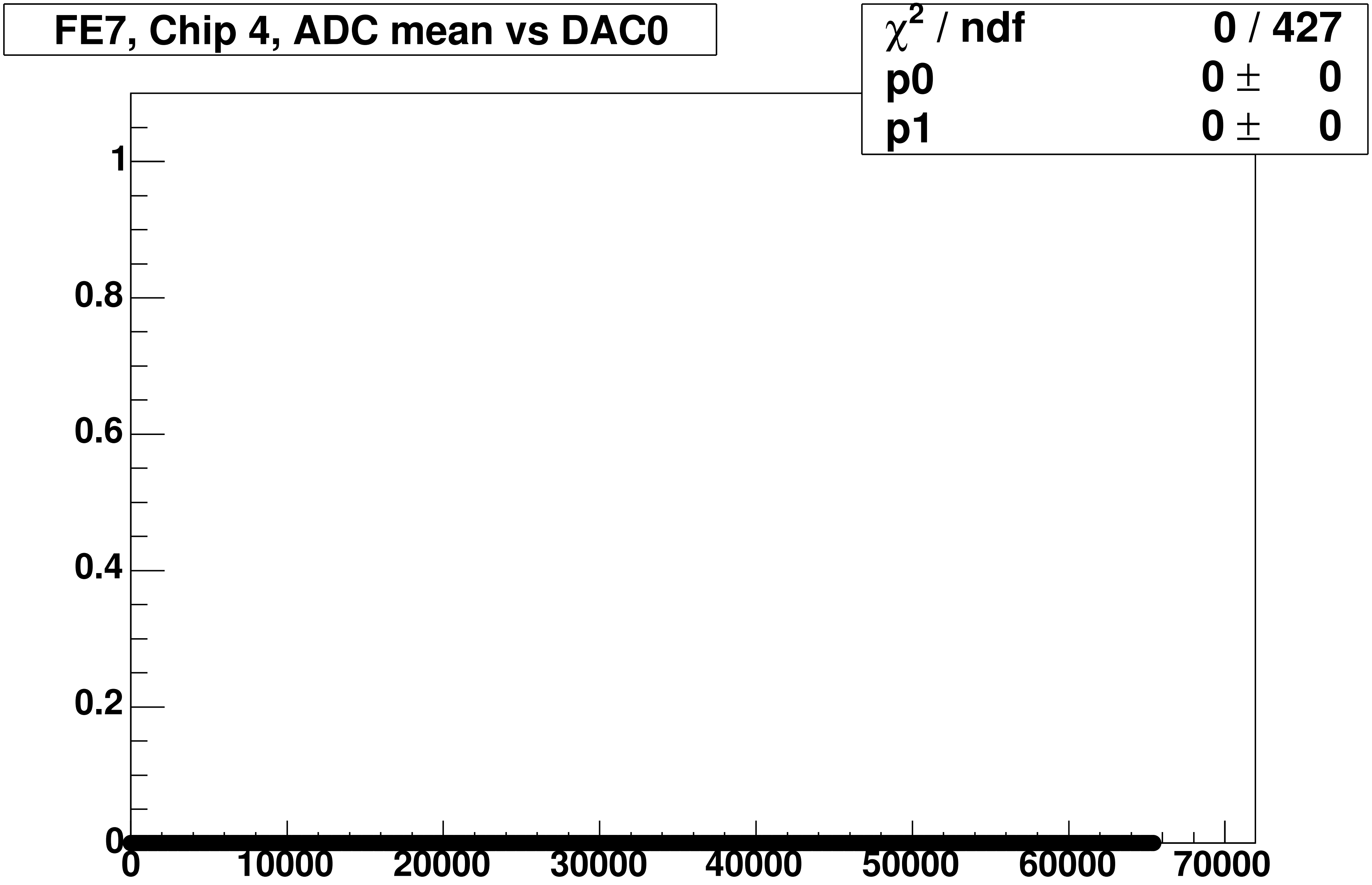


FE7, Chip 3, ADC mean vs DAC1
χ2 / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

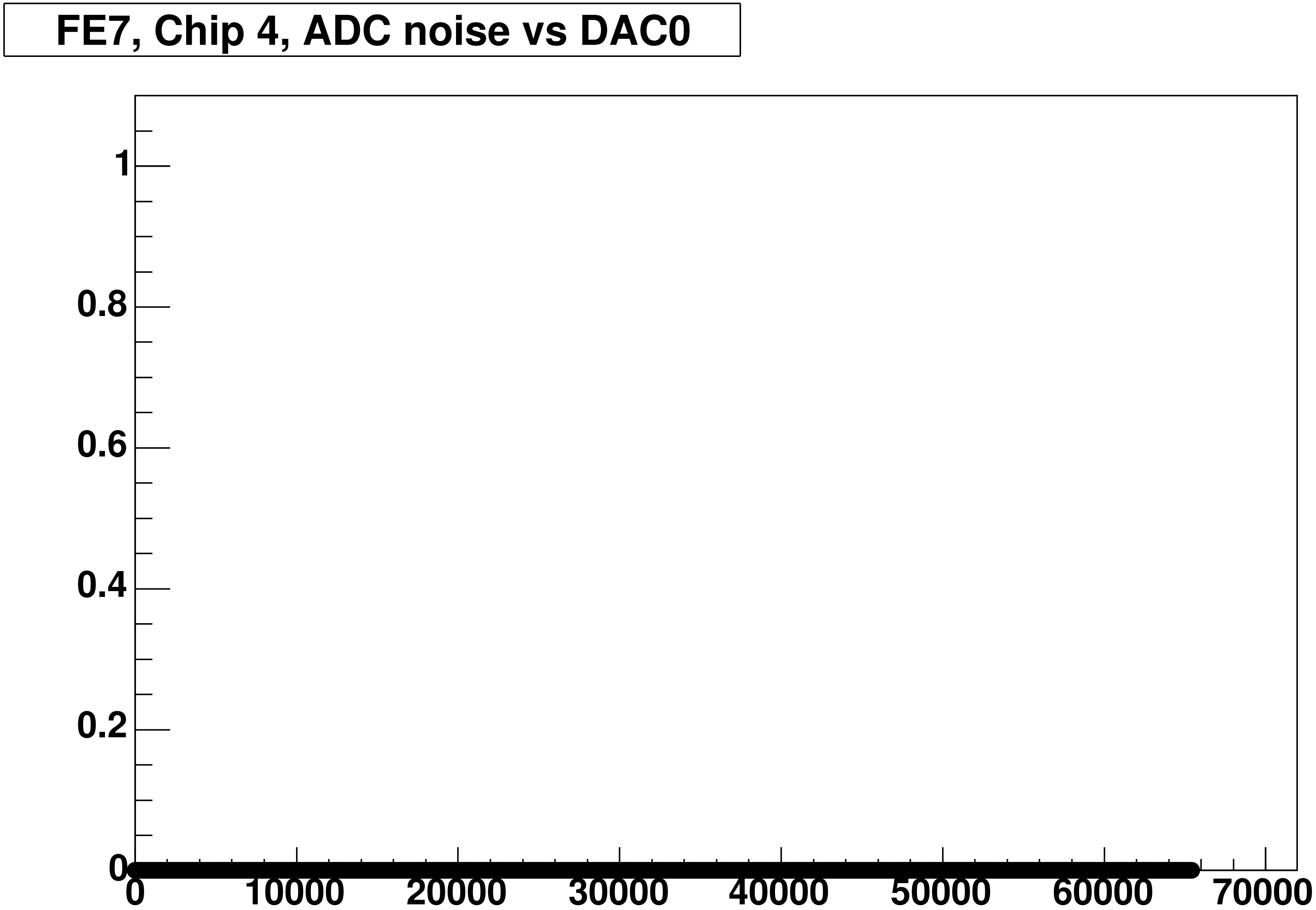
FE7, Chip 3, ADC noise vs DAC1



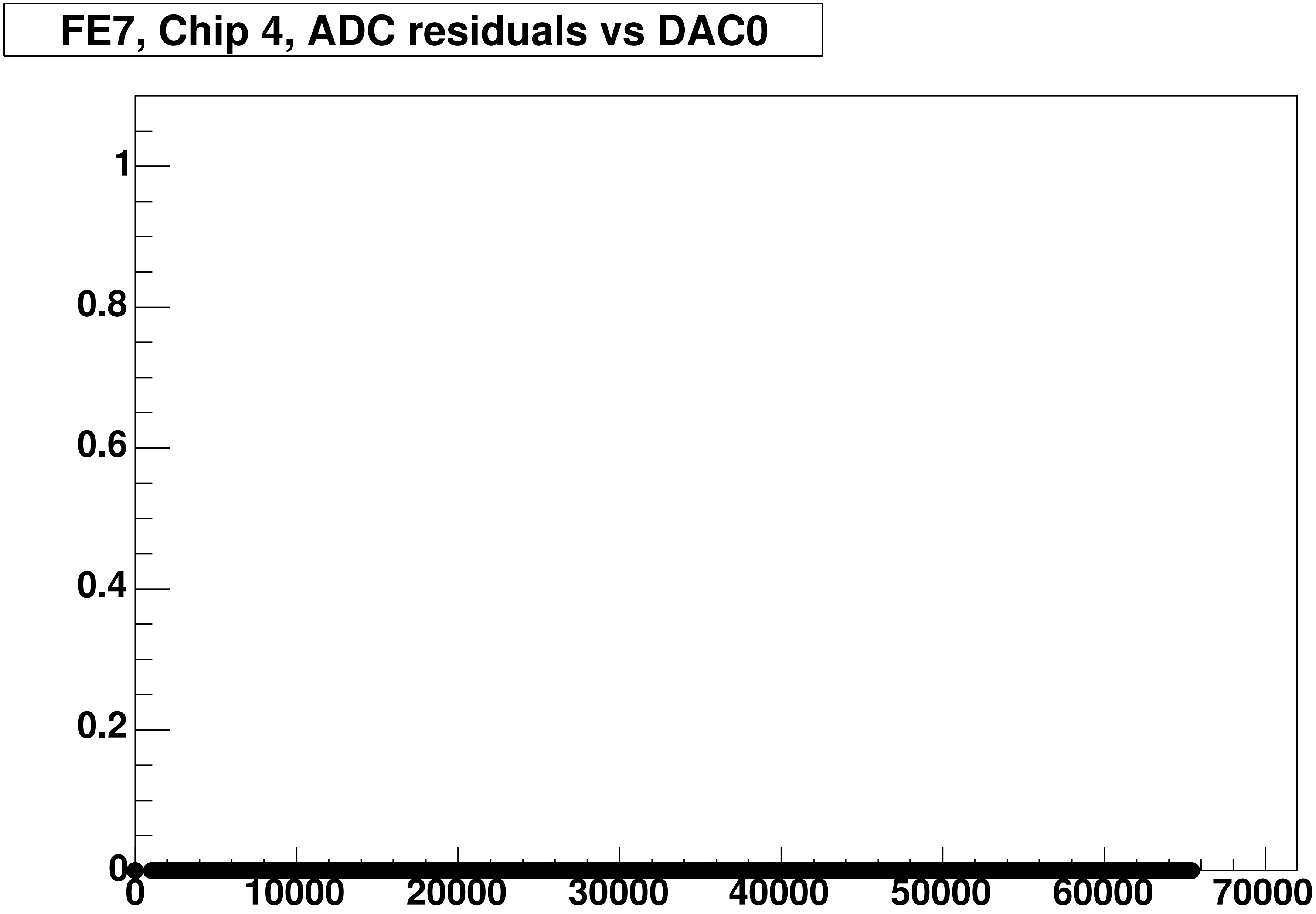

FE7, Chip 3, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

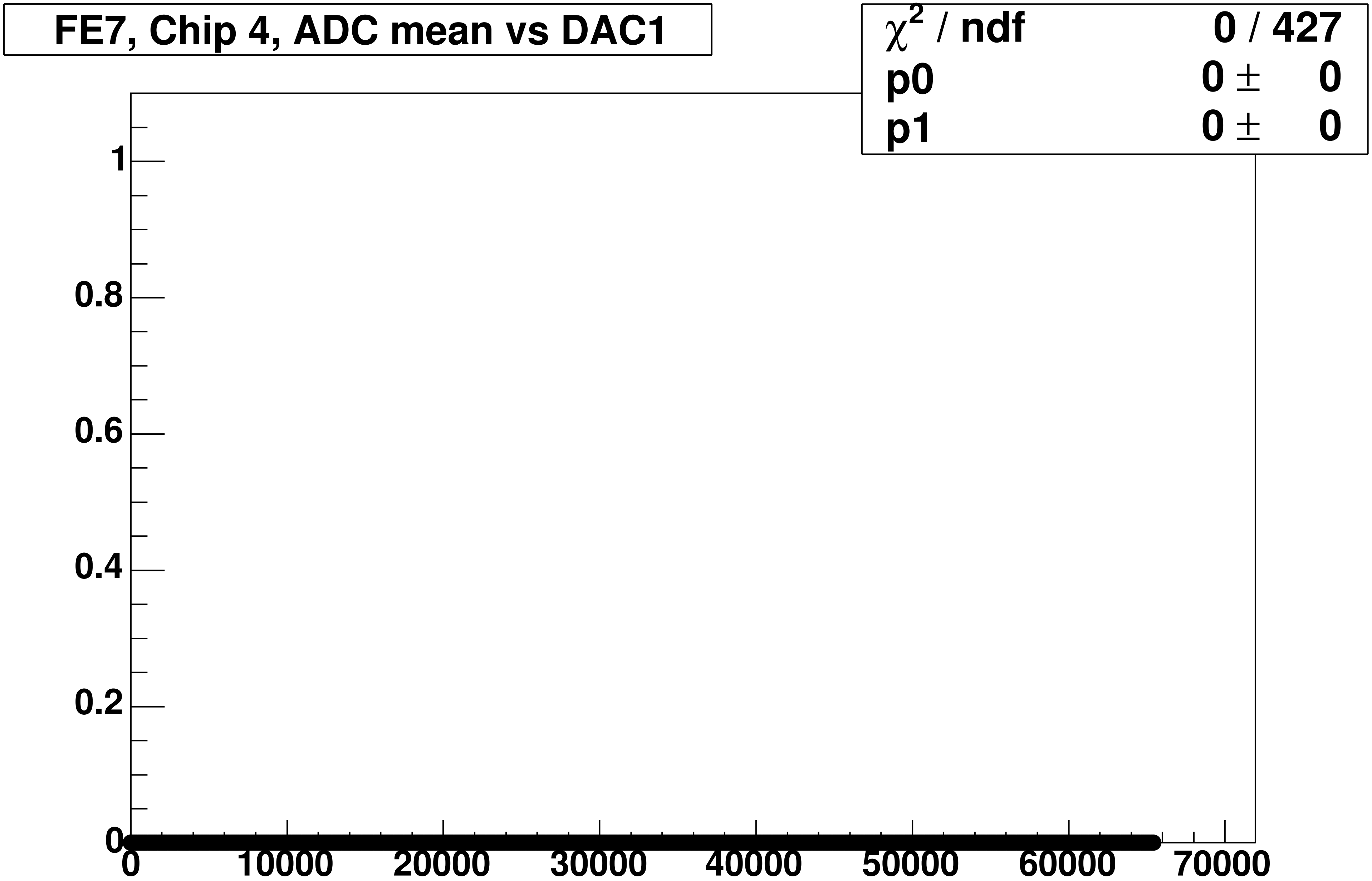


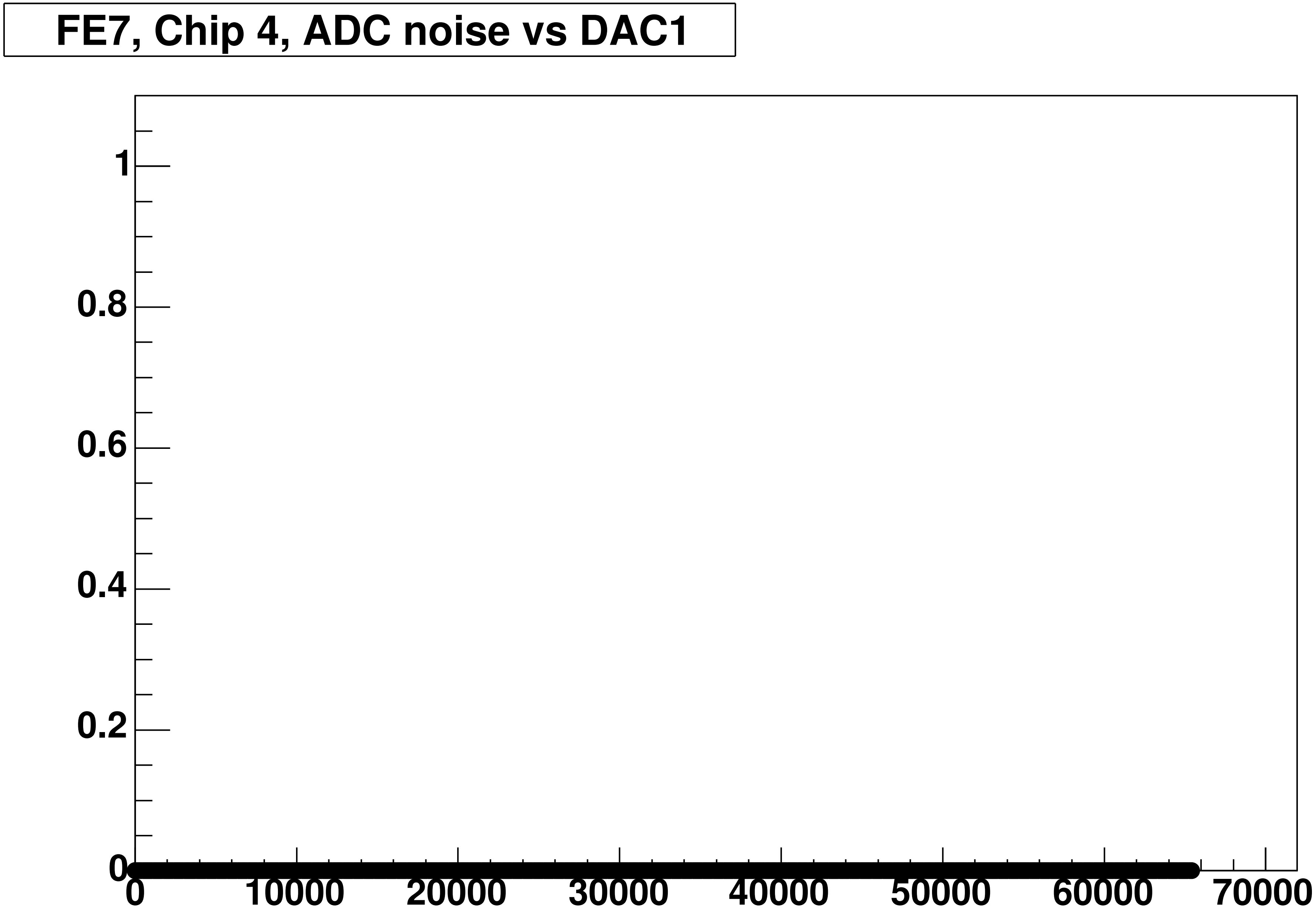
FE7, Chip 4, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

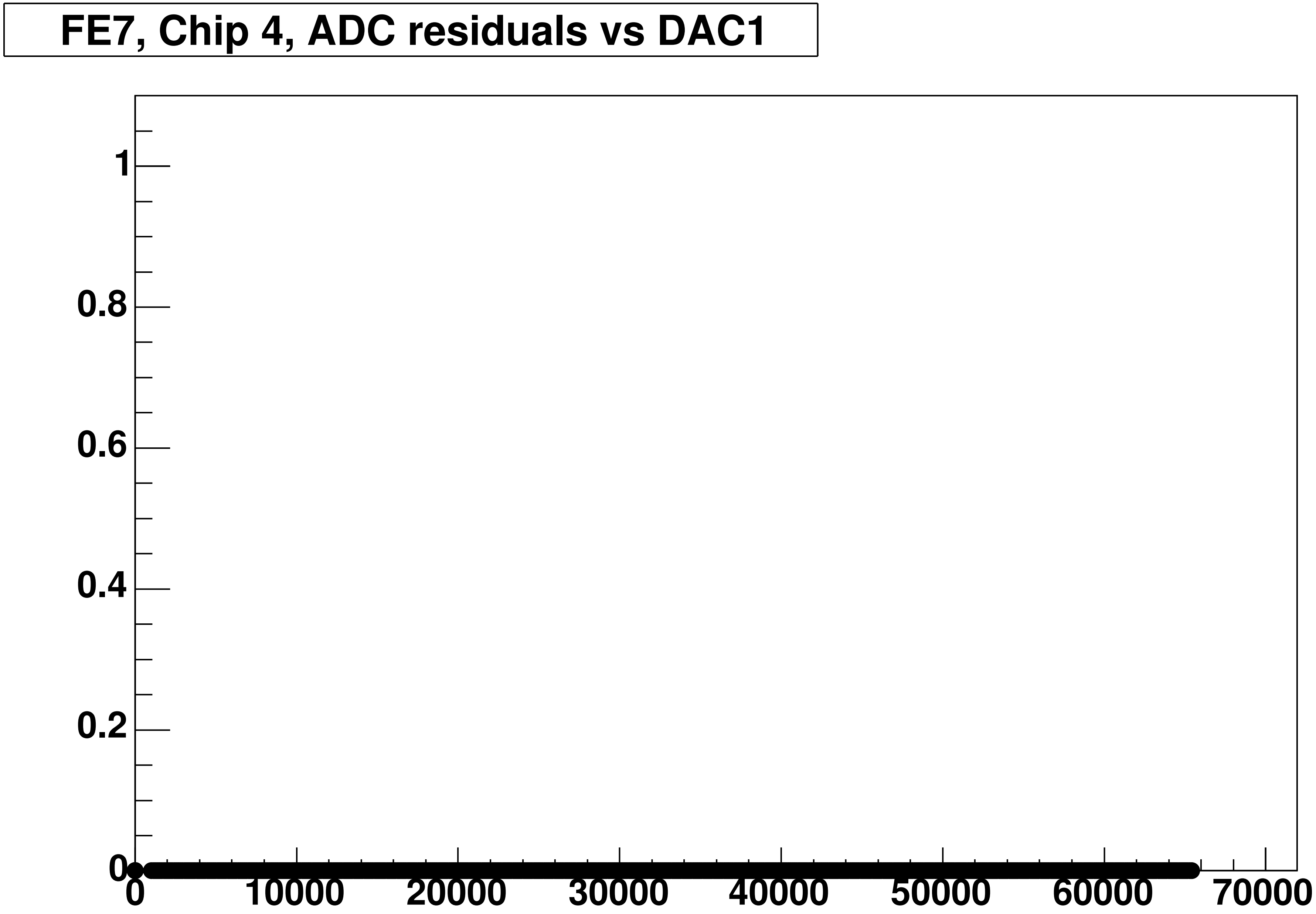


FE7, Chip 4, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

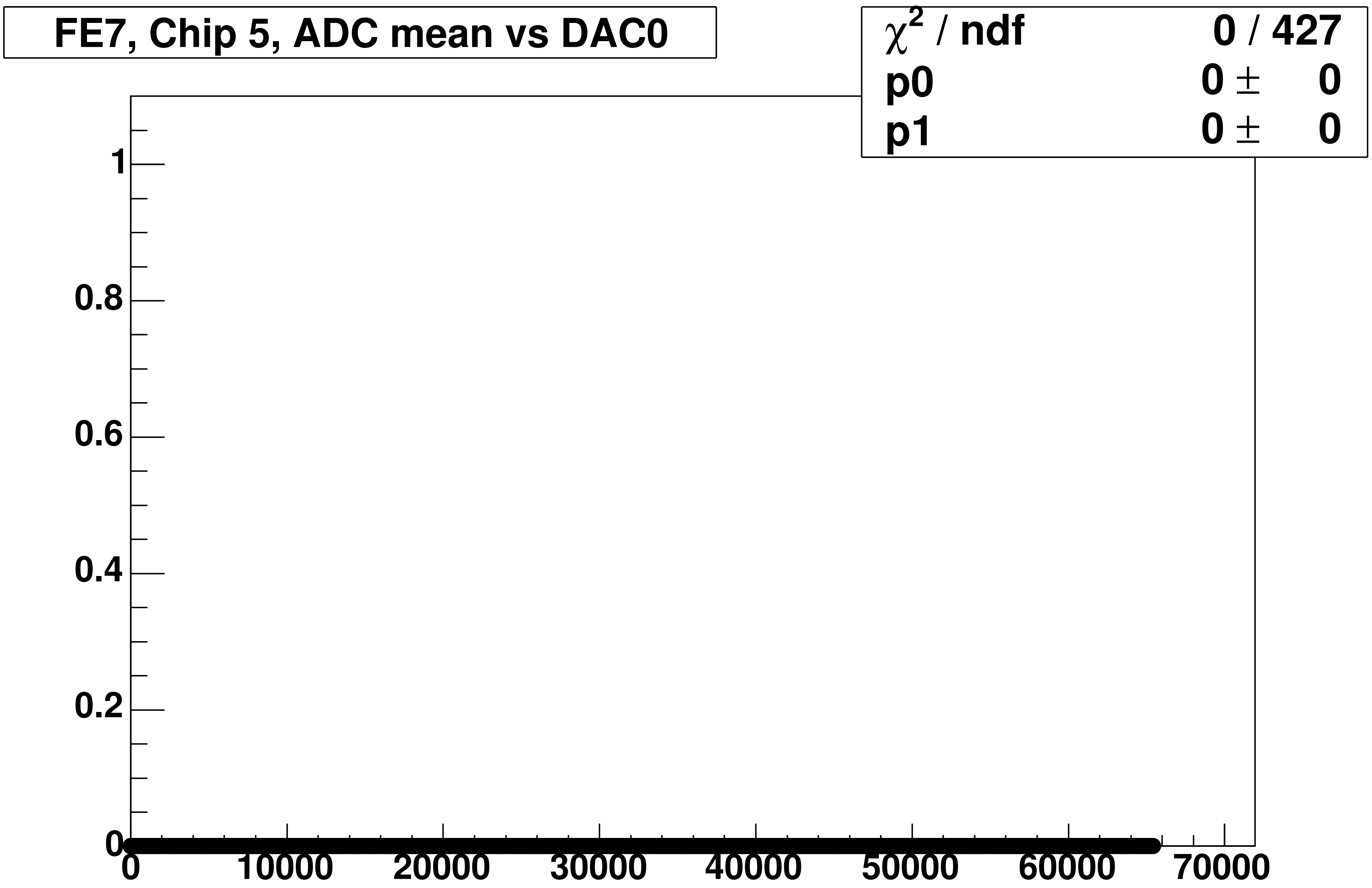

FE7, Chip 4, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

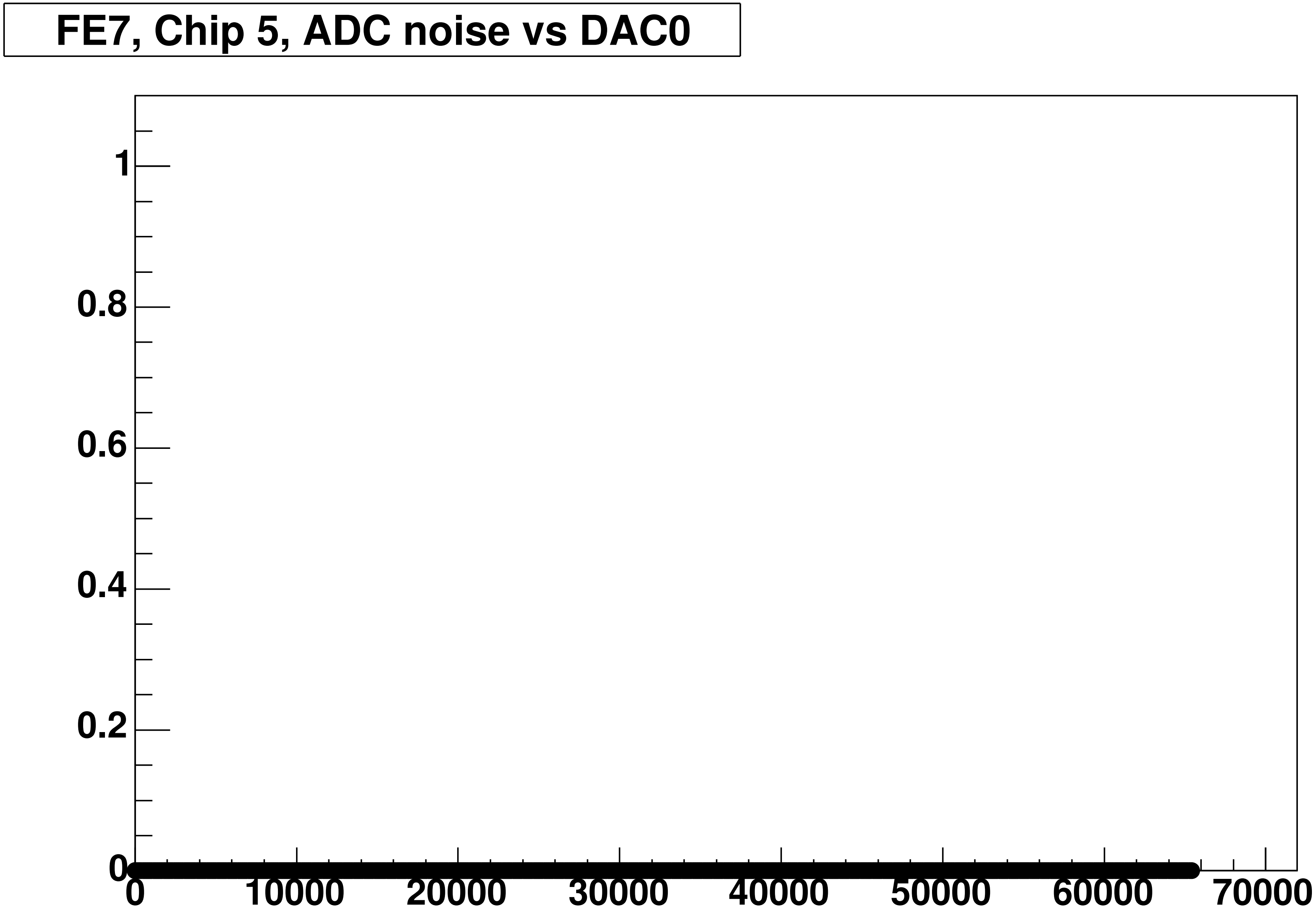

FE7, Chip 4, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

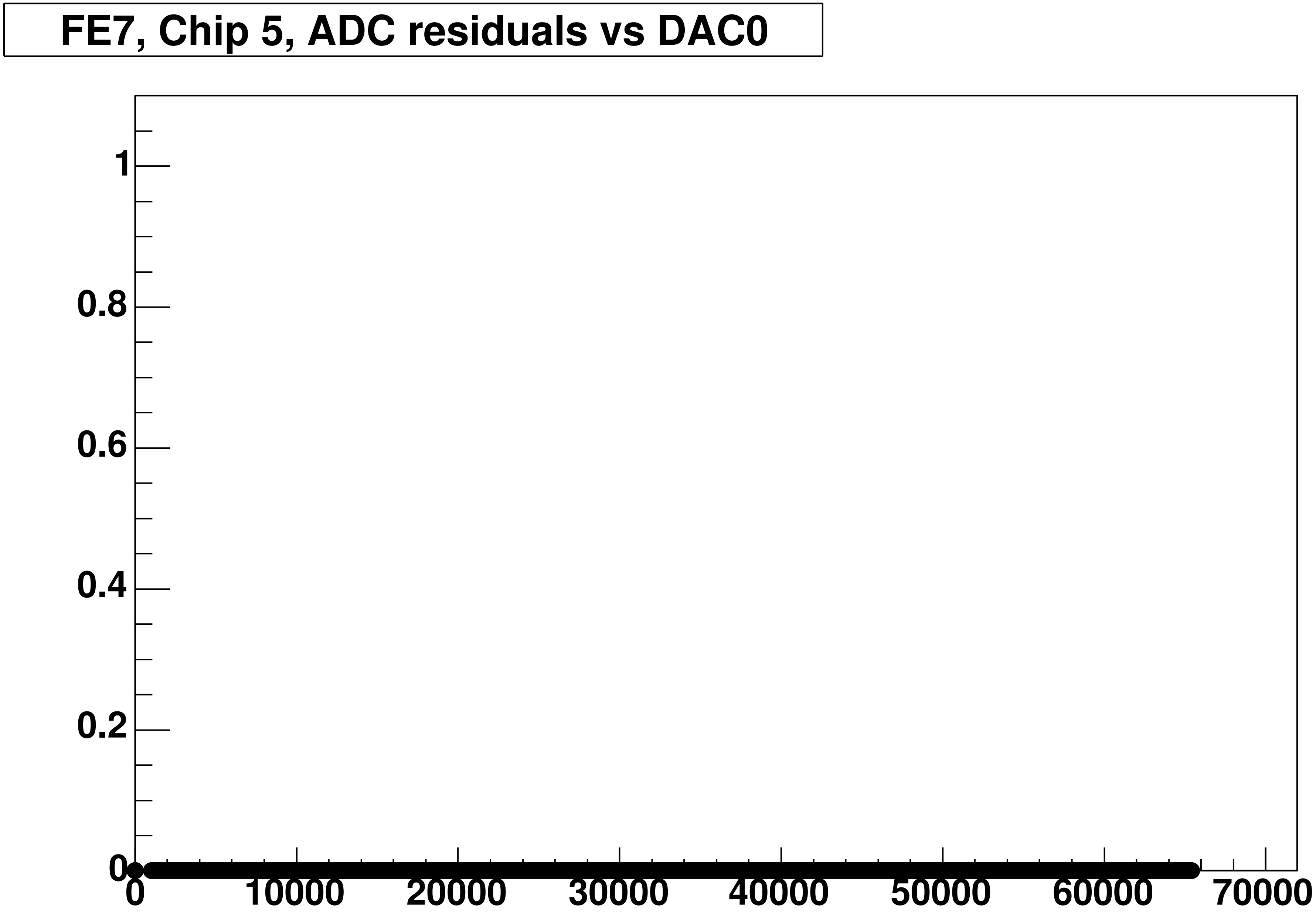

FE7, Chip 4, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

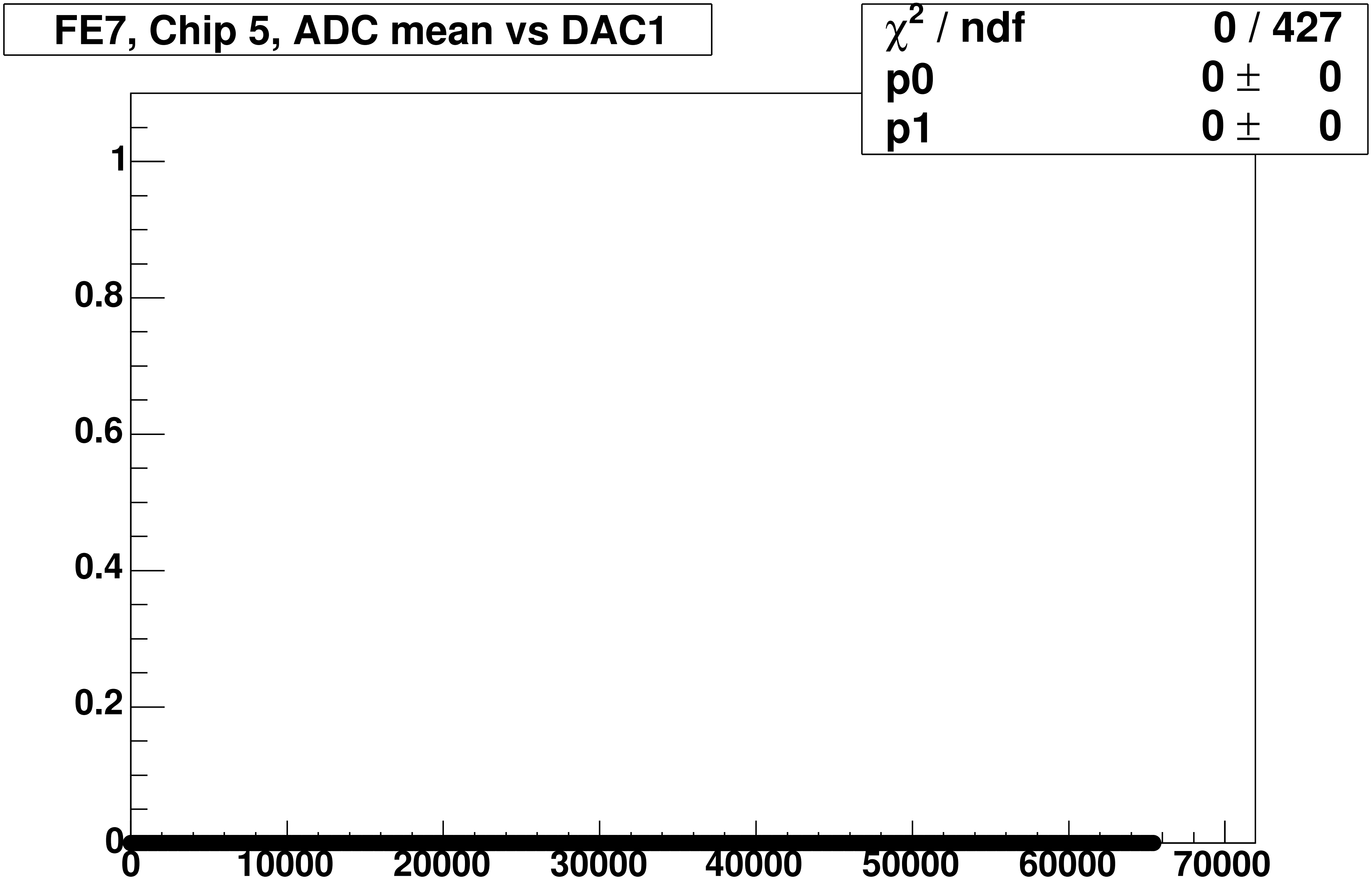


FE7, Chip 4, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

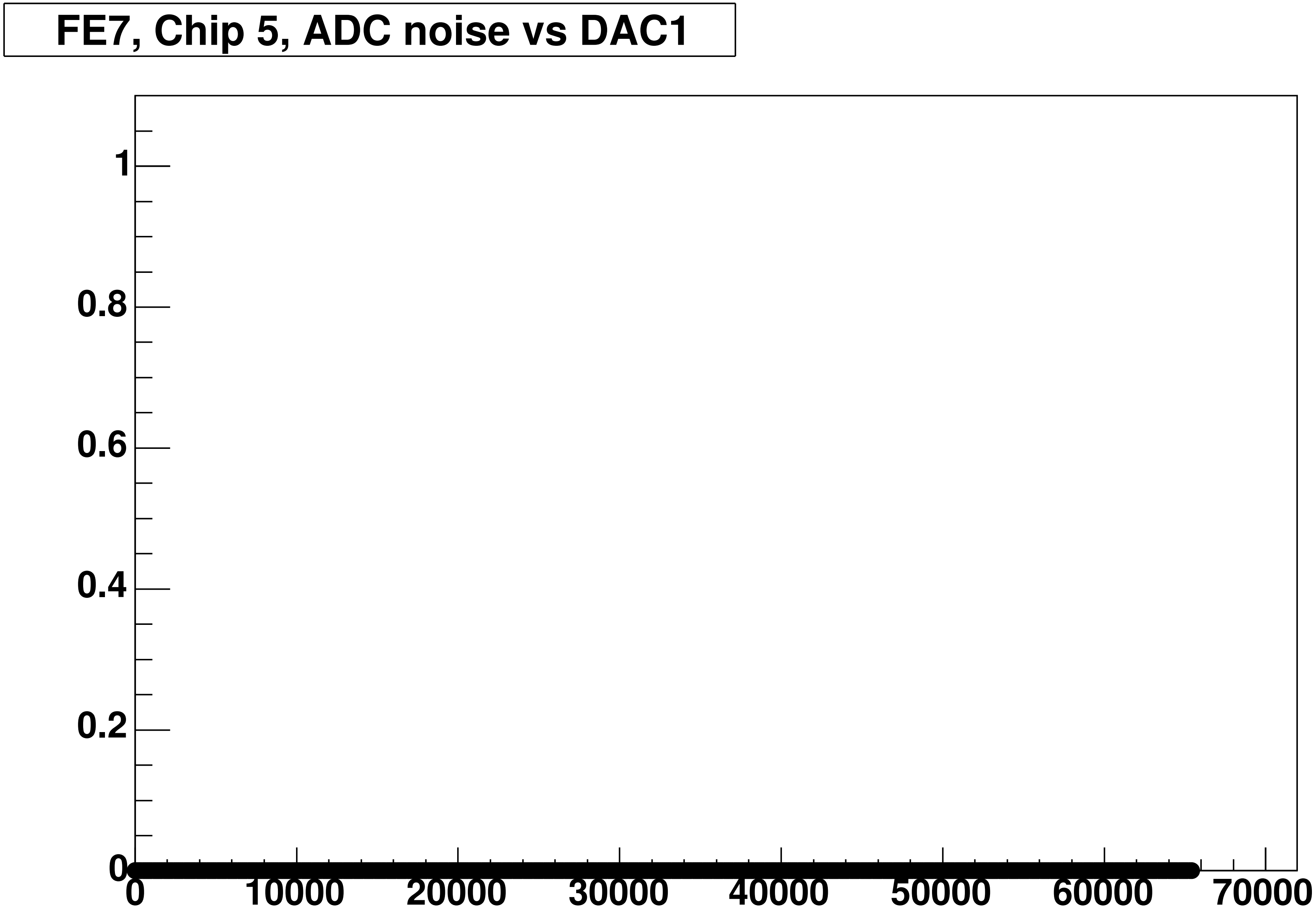

FE7, Chip 5, ADC mean vs DAC0
χ2 / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

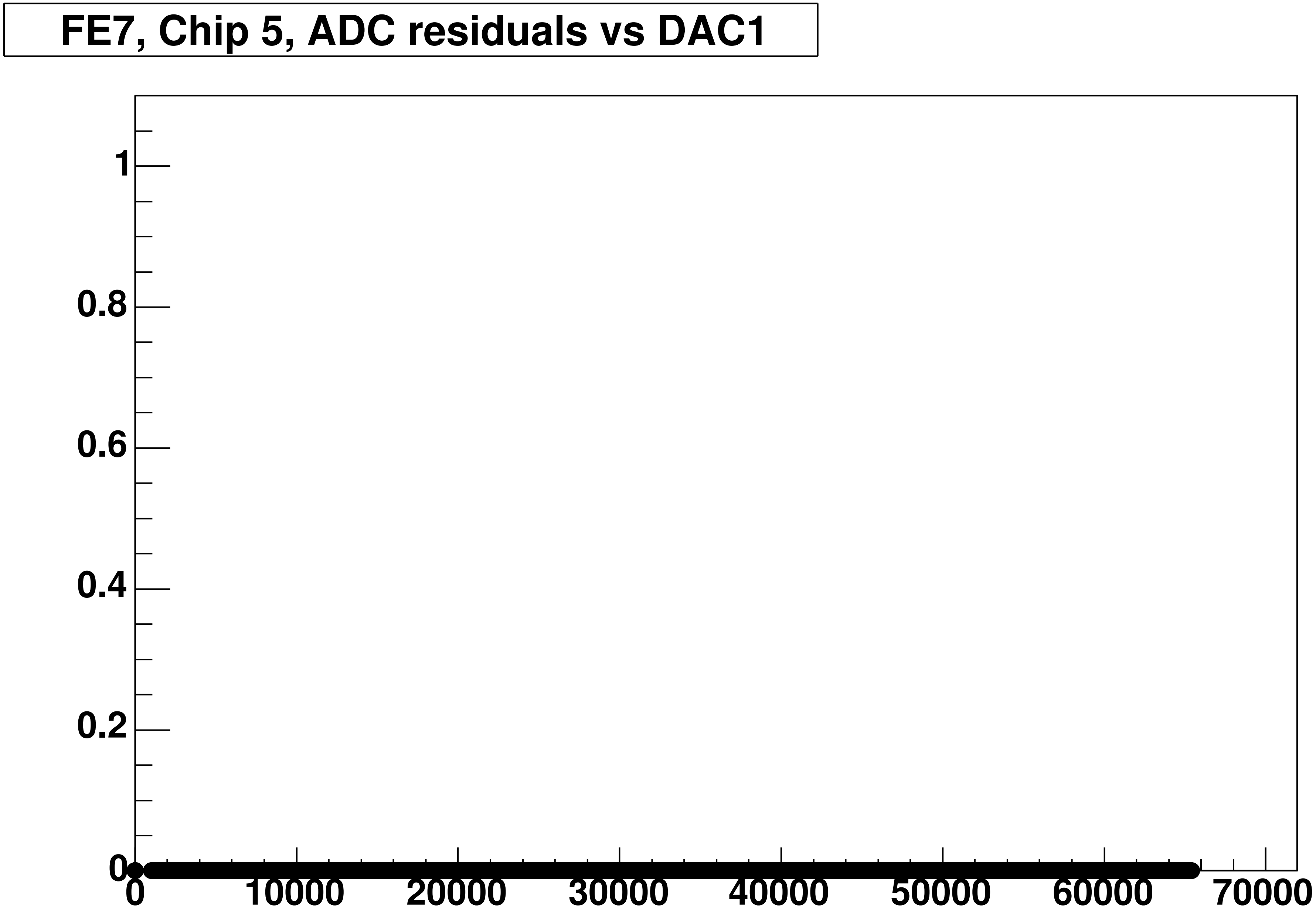

FE7, Chip 5, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

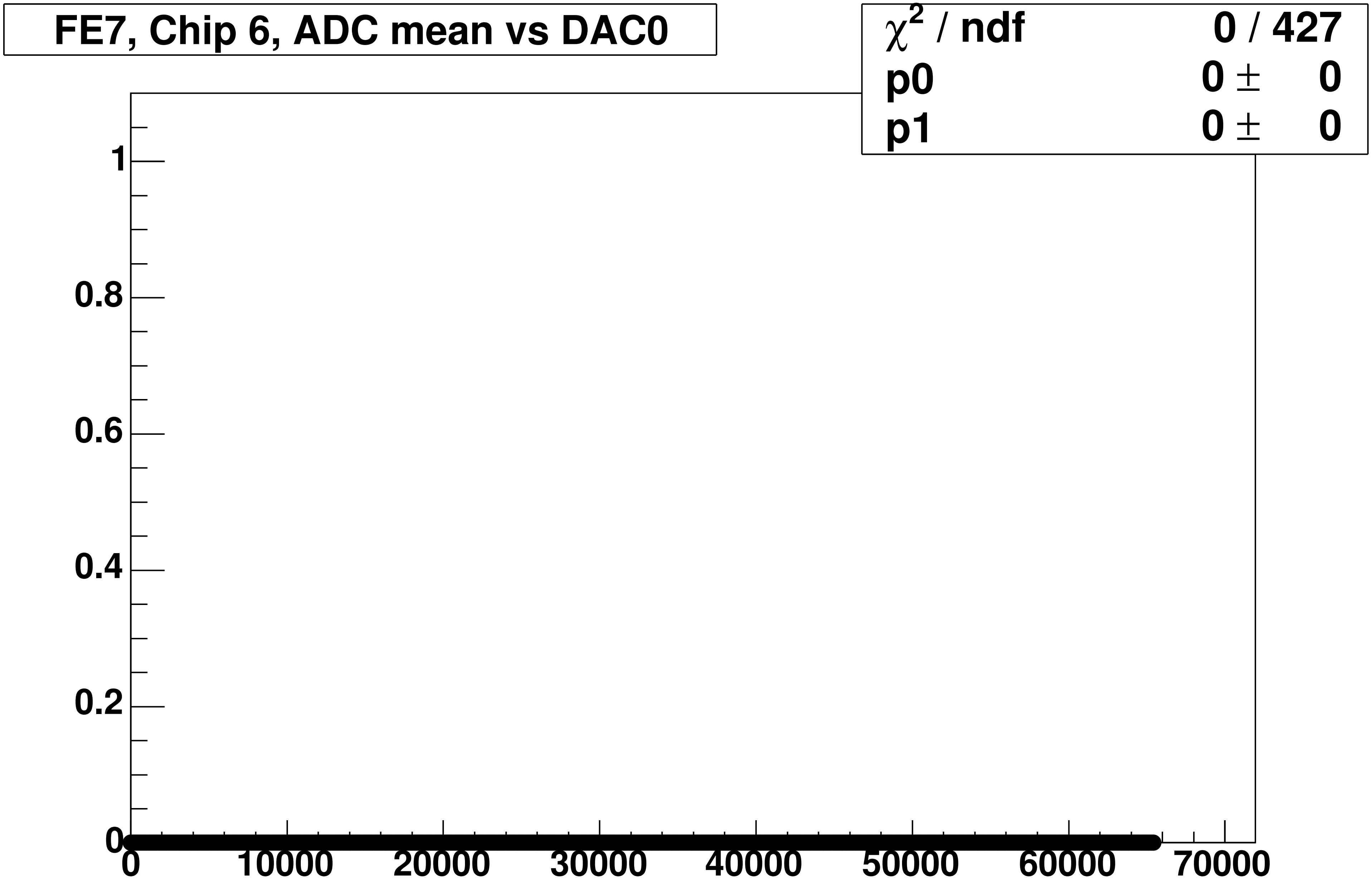

FE7, Chip 5, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



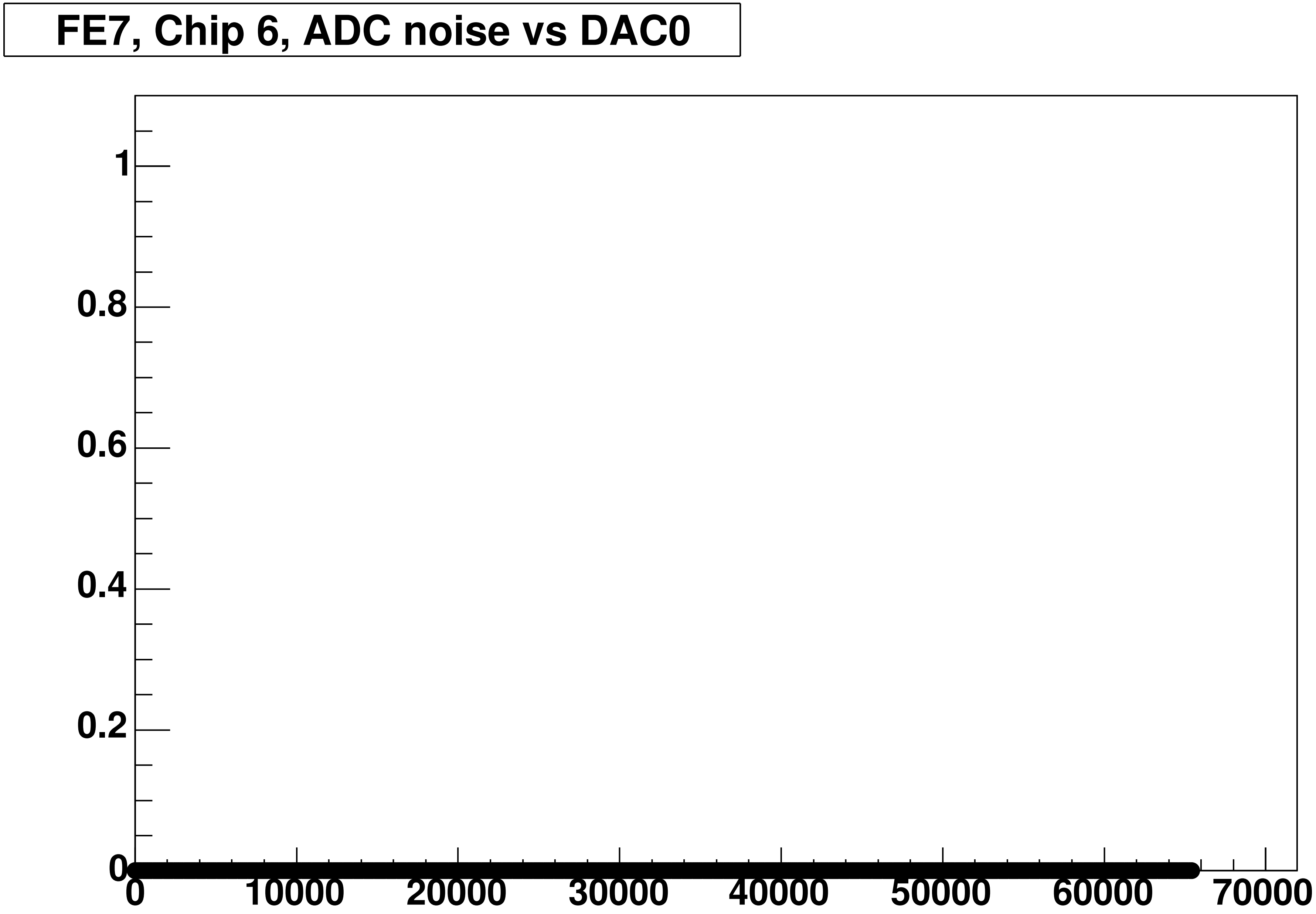
FE7, Chip 5, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

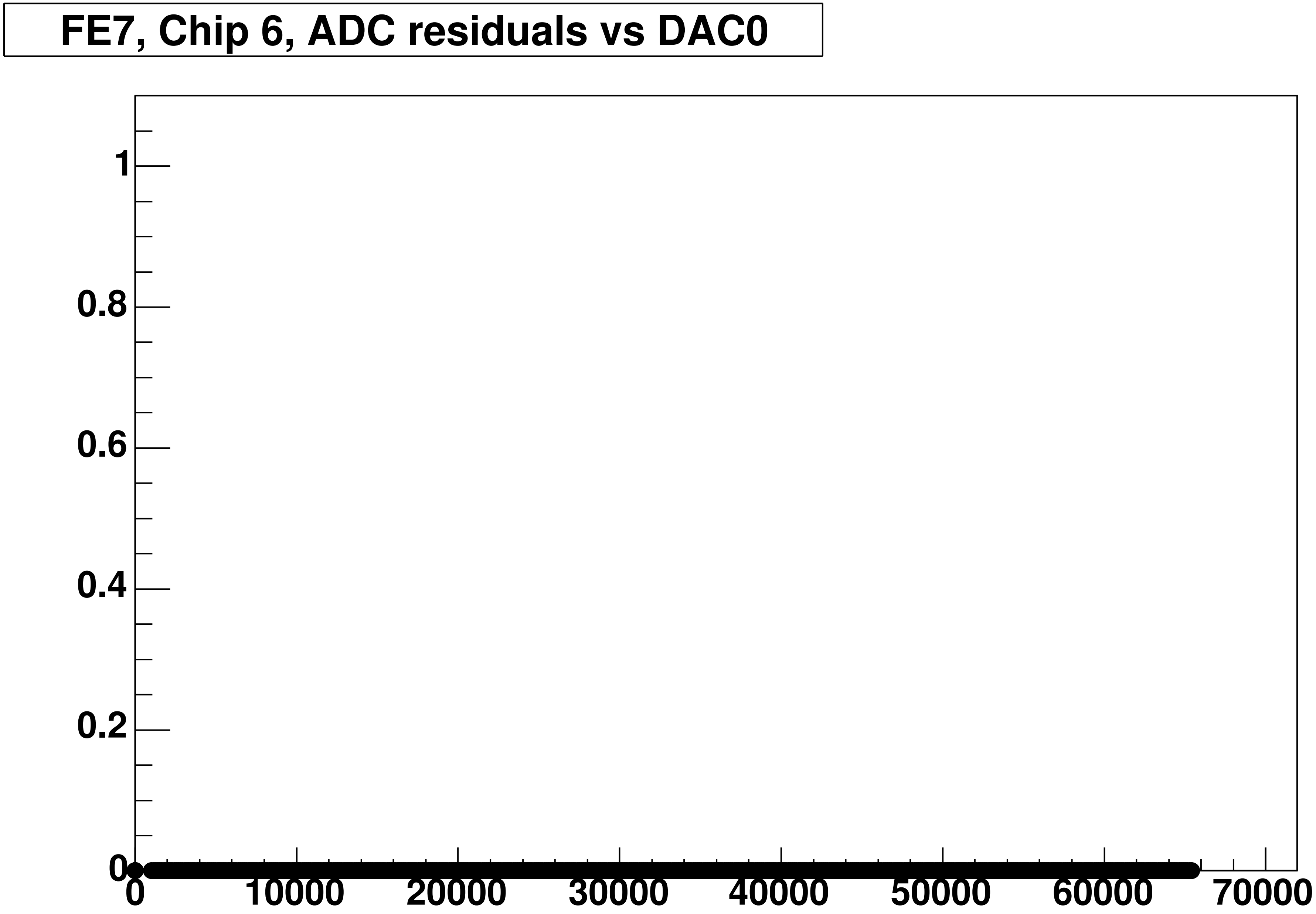

FE7, Chip 5, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE7, Chip 5, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

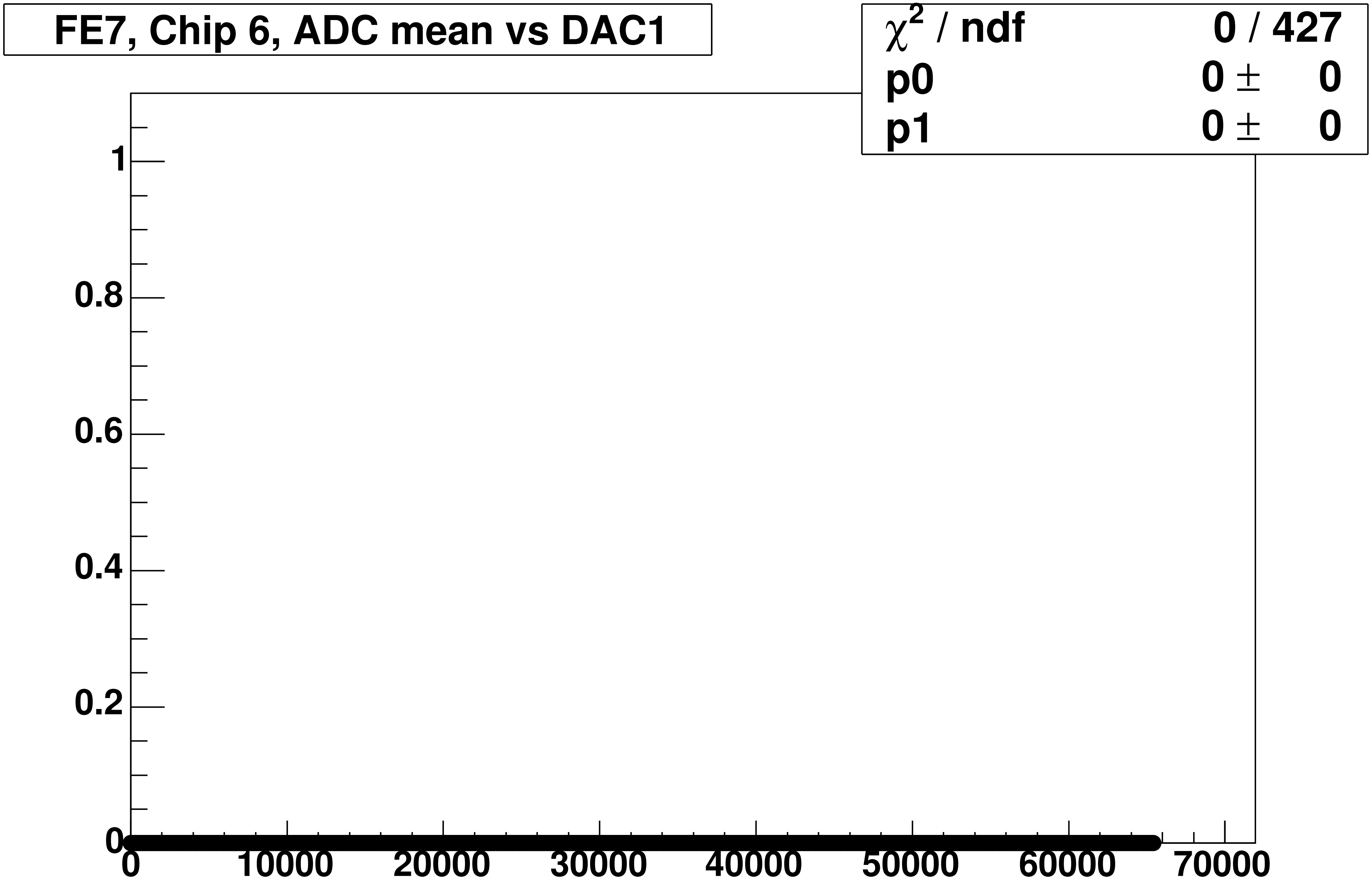


FE7, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

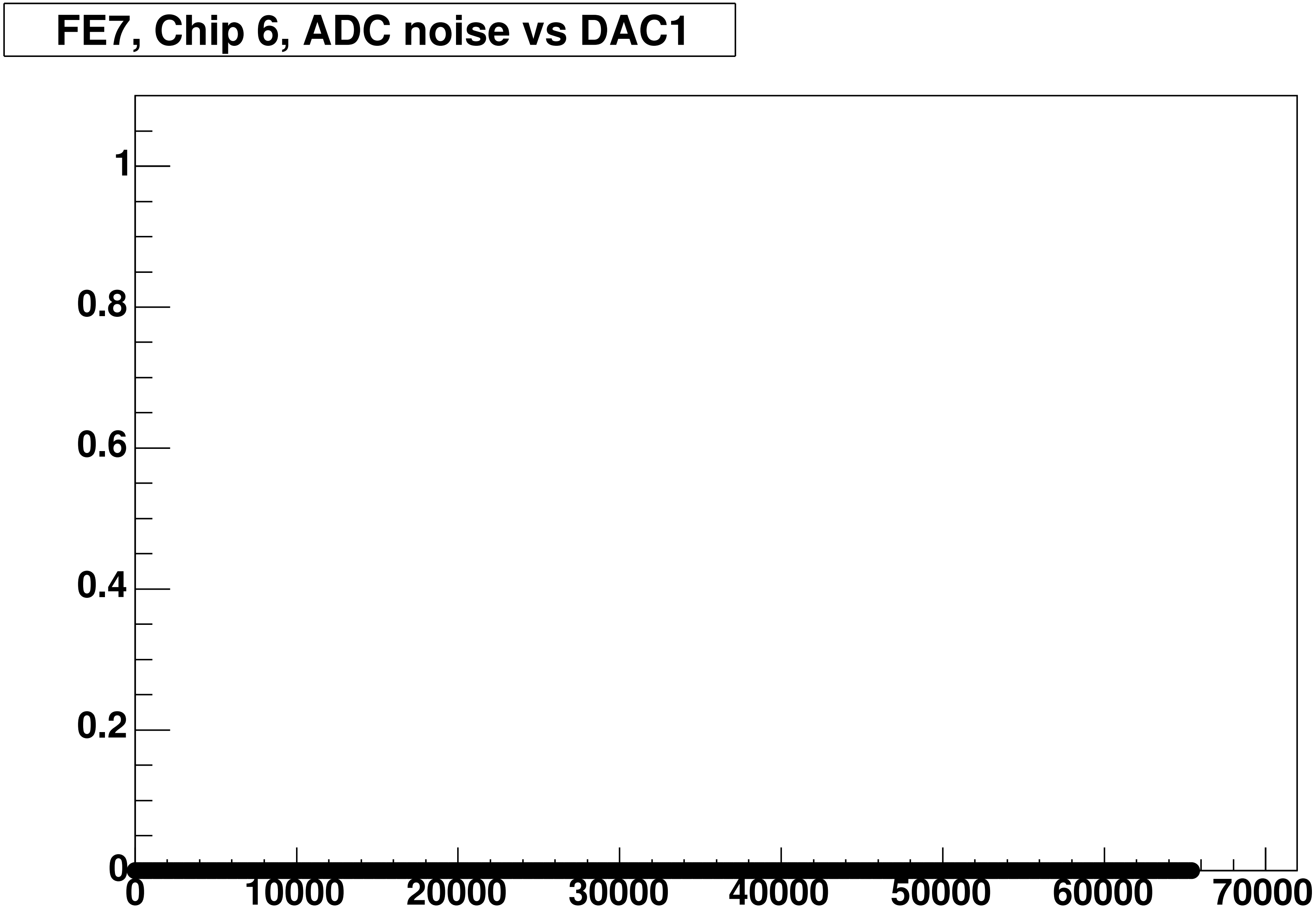

FE7, Chip 6, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

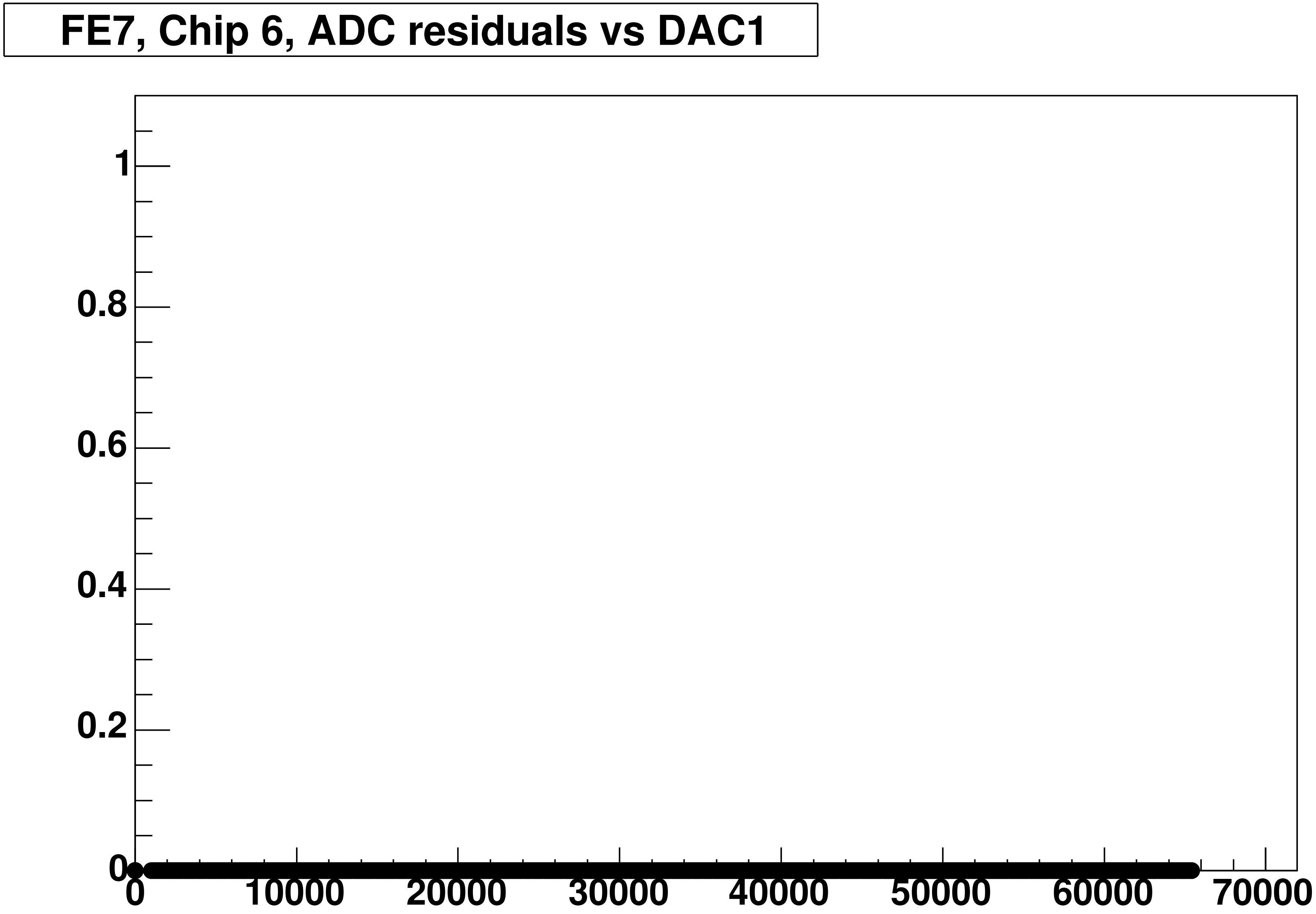


FE7, Chip 6, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

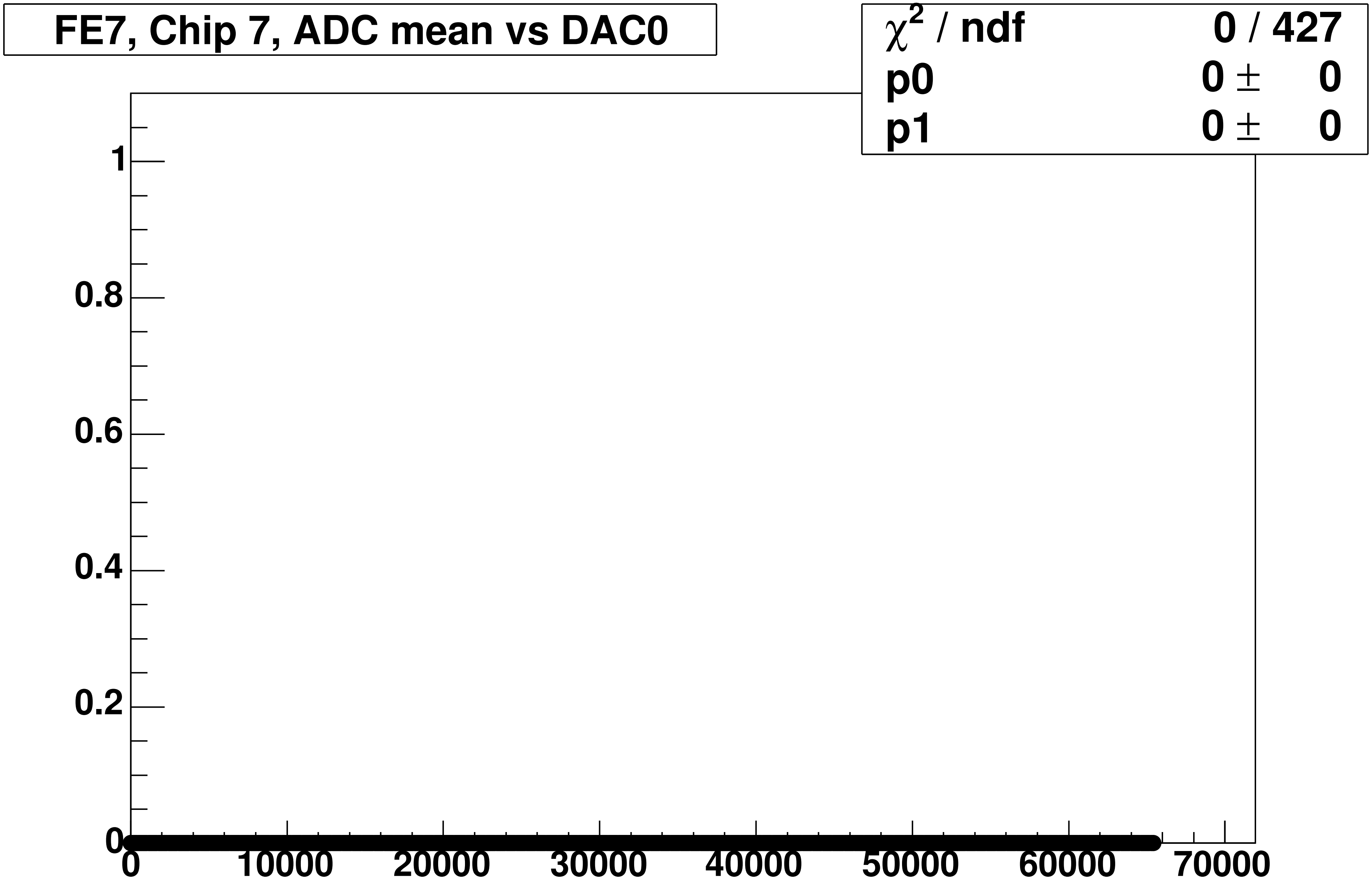


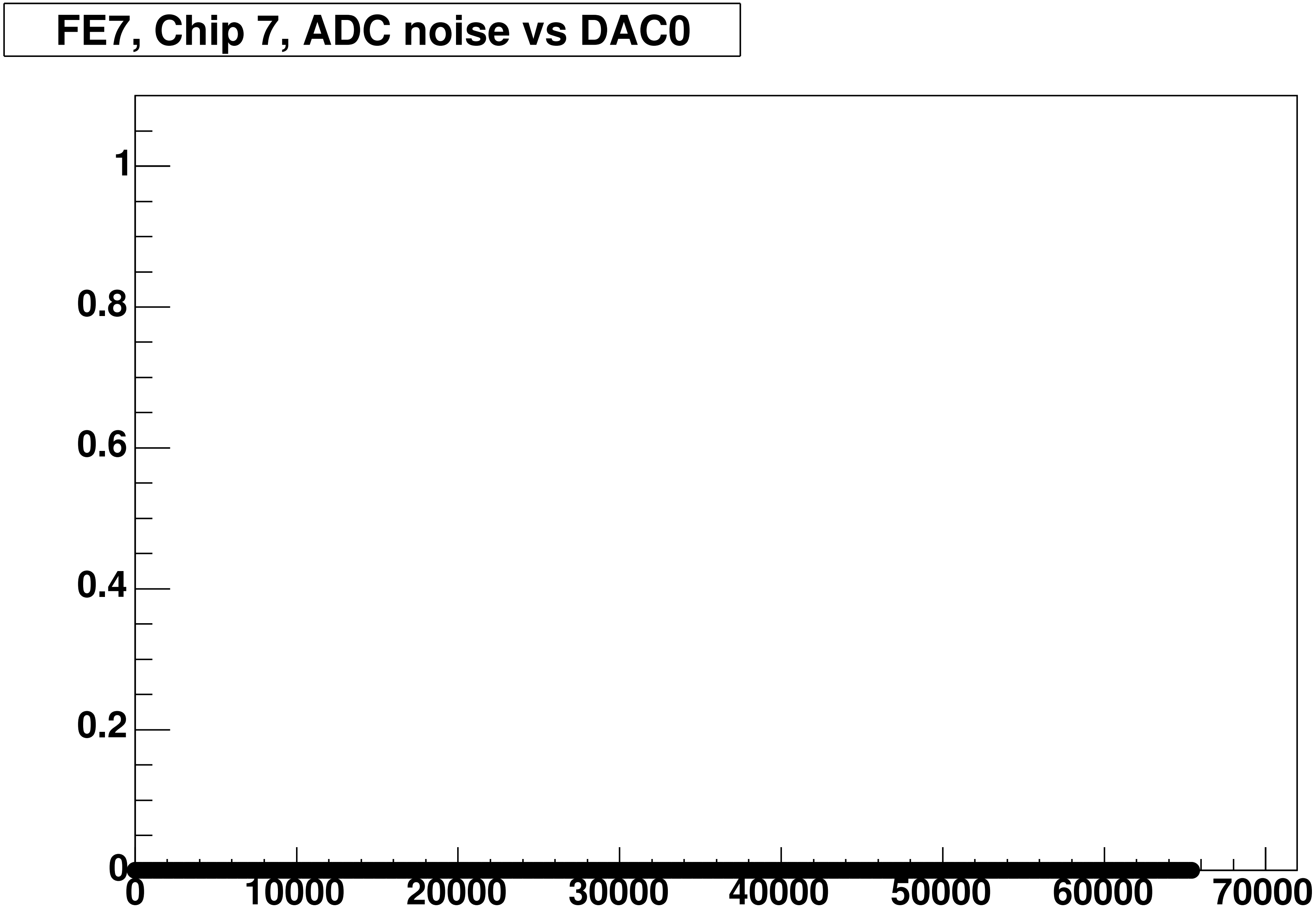
FE7, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

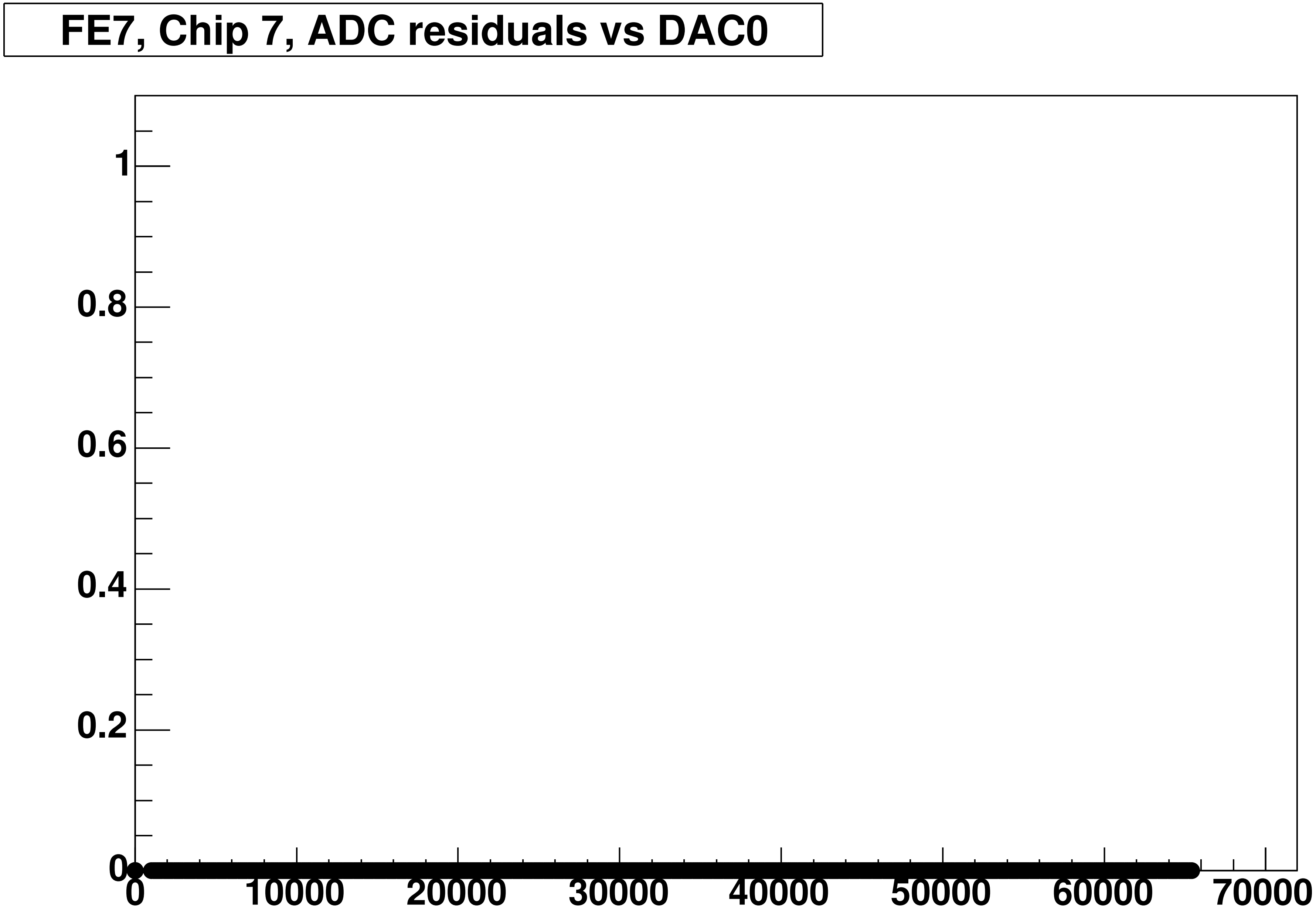

FE7, Chip 6, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

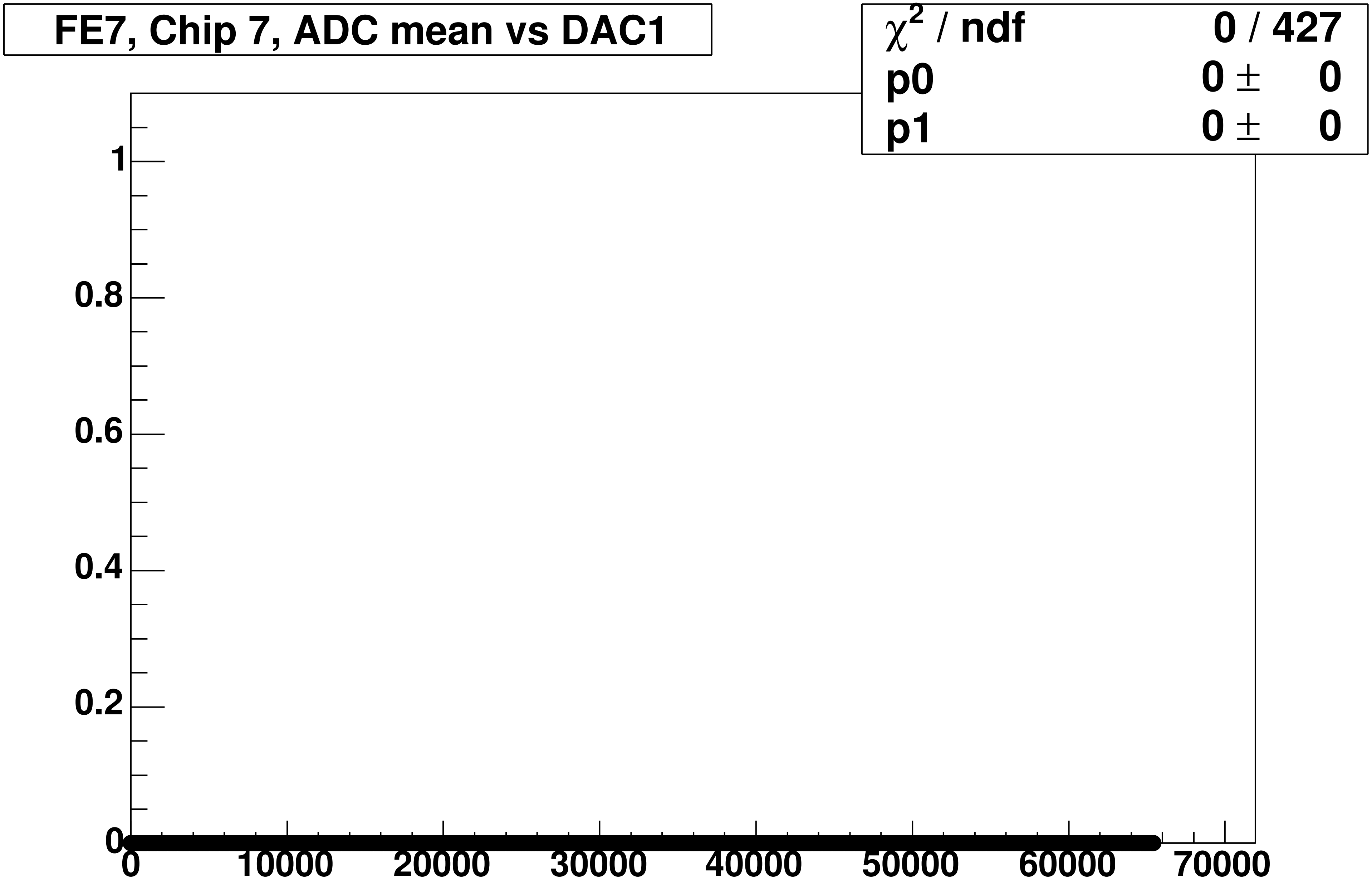


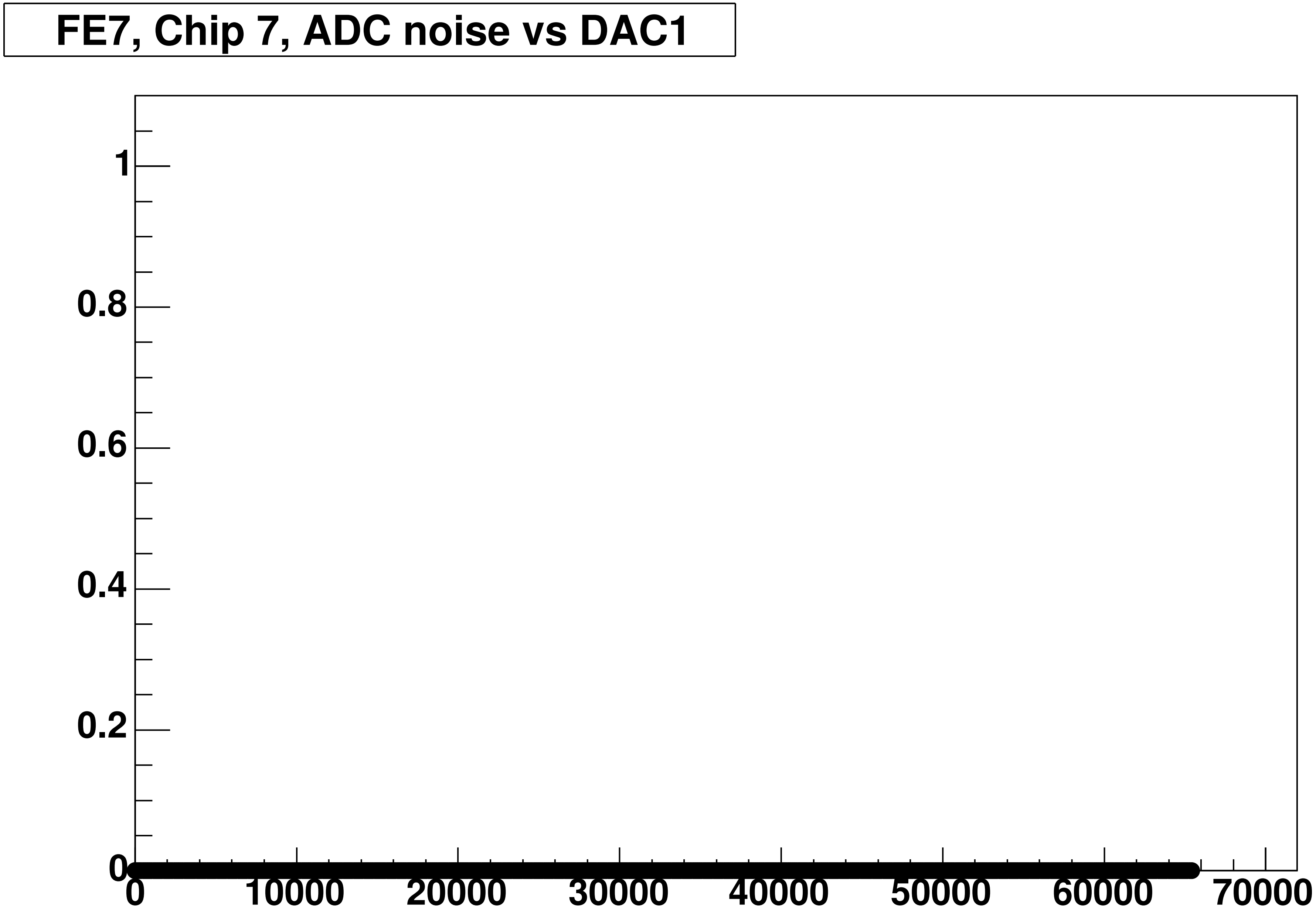
FE7, Chip 6, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

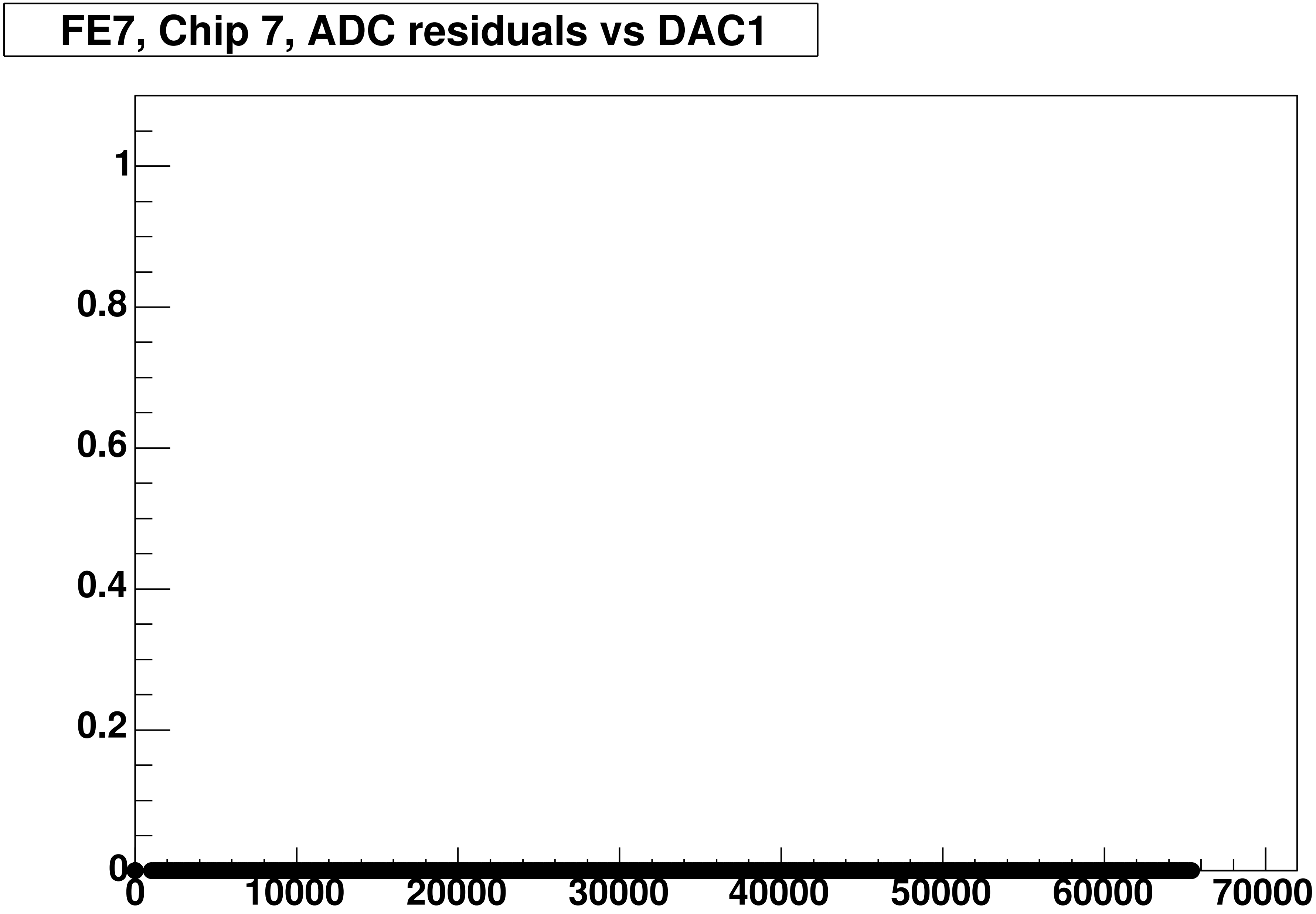

FE7, Chip 7, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

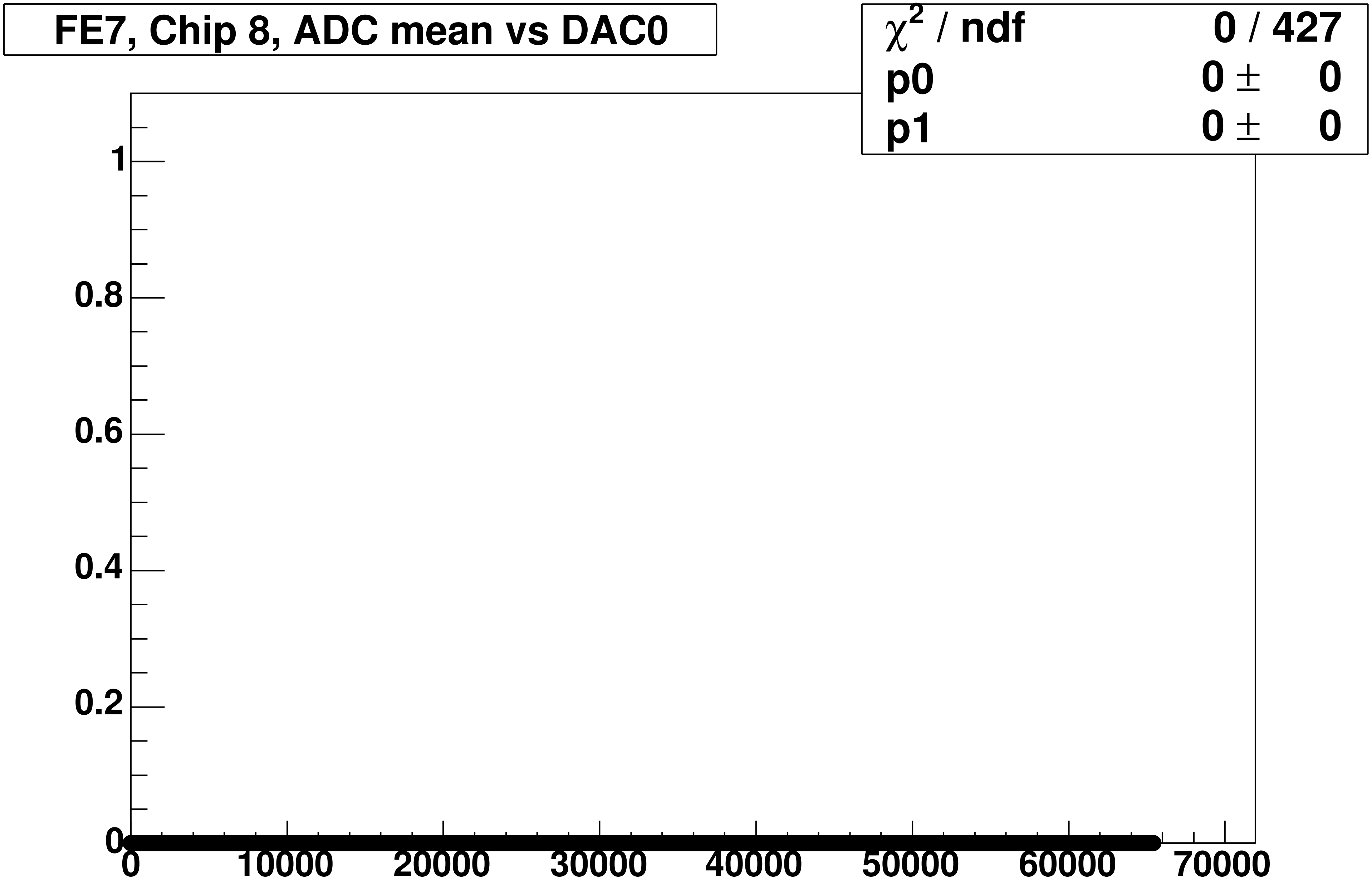

FE7, Chip 7, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE7, Chip 7, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

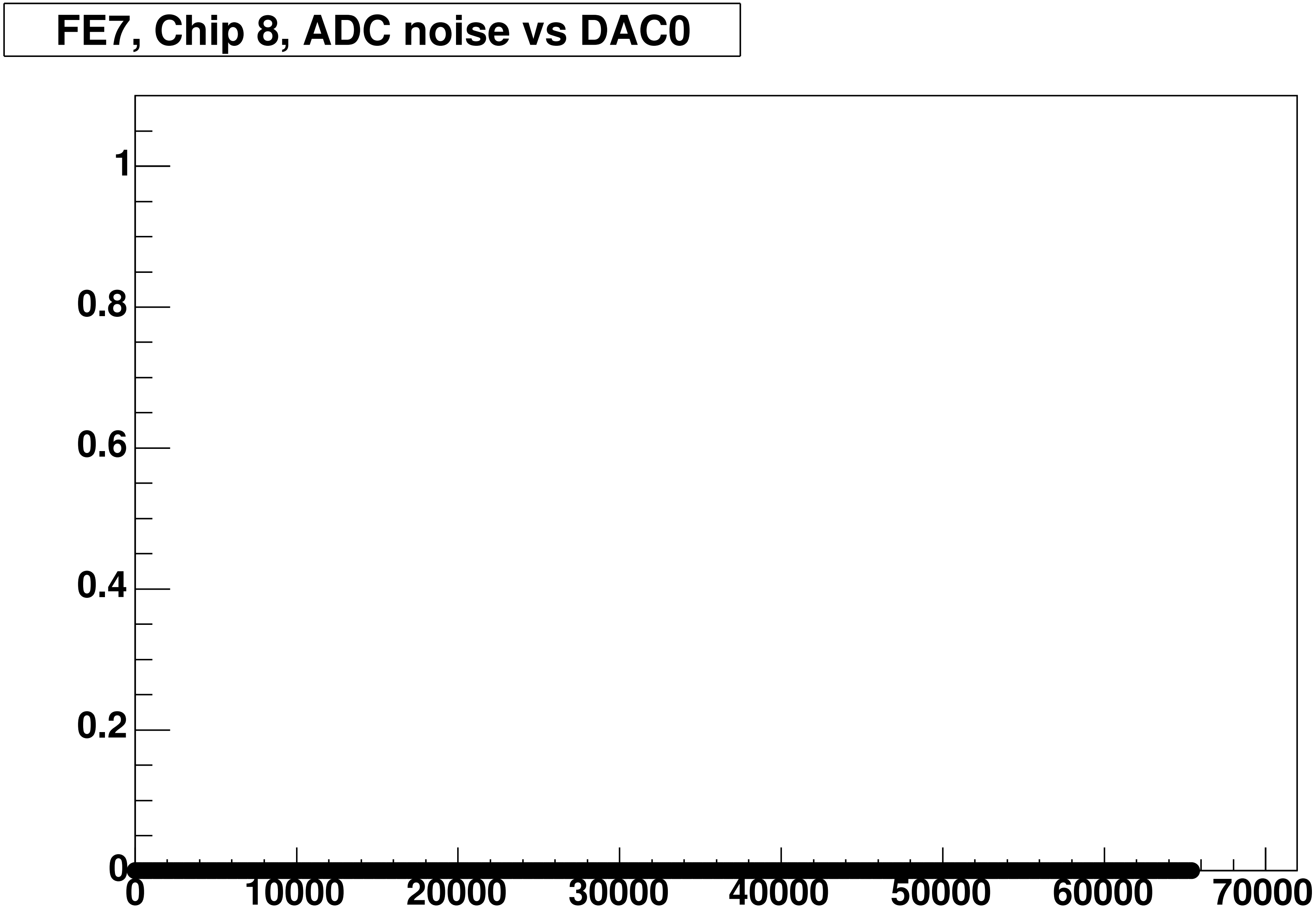

FE7, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000


FE7, Chip 7, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

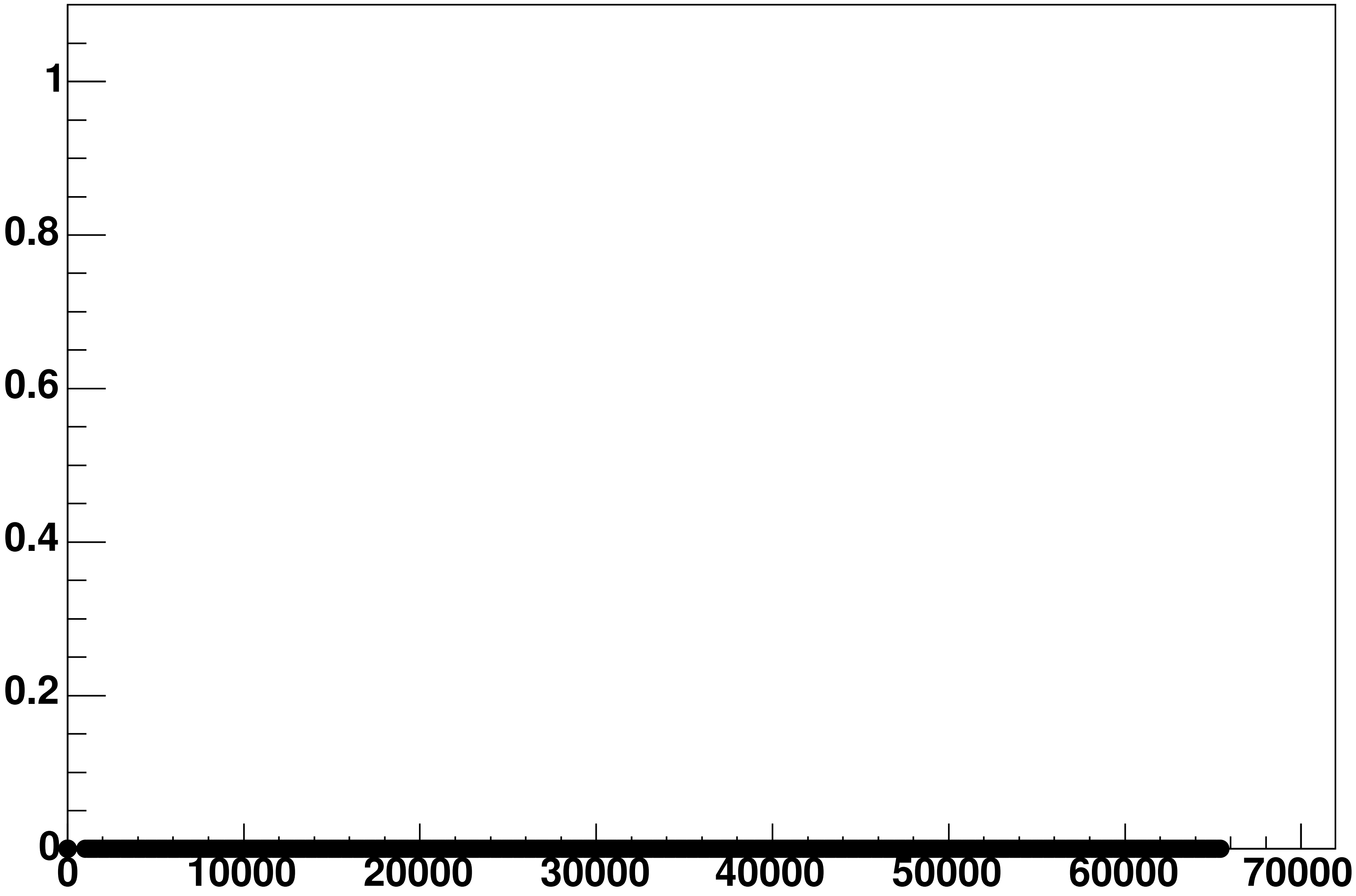

FE7, Chip 7, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

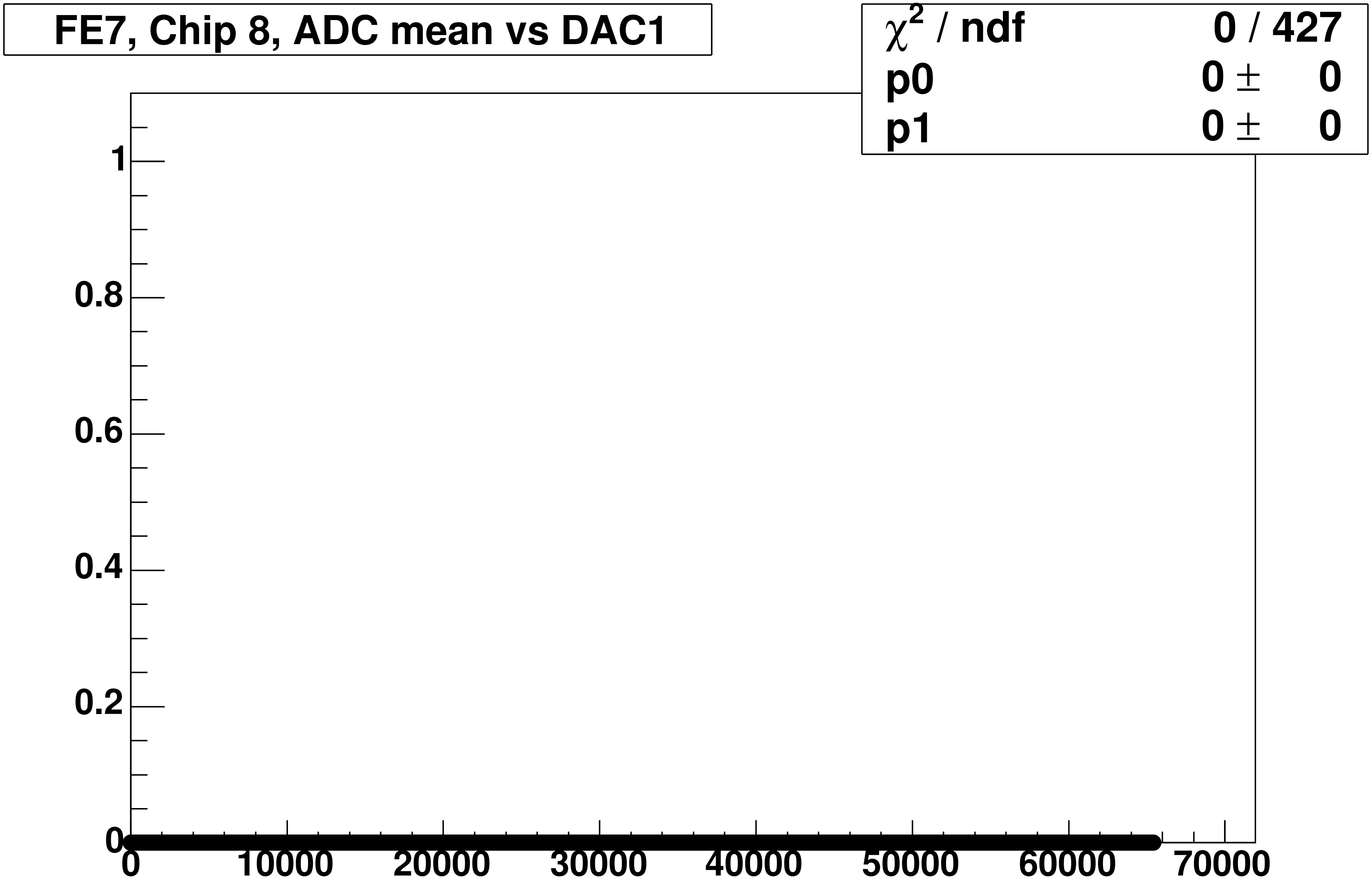


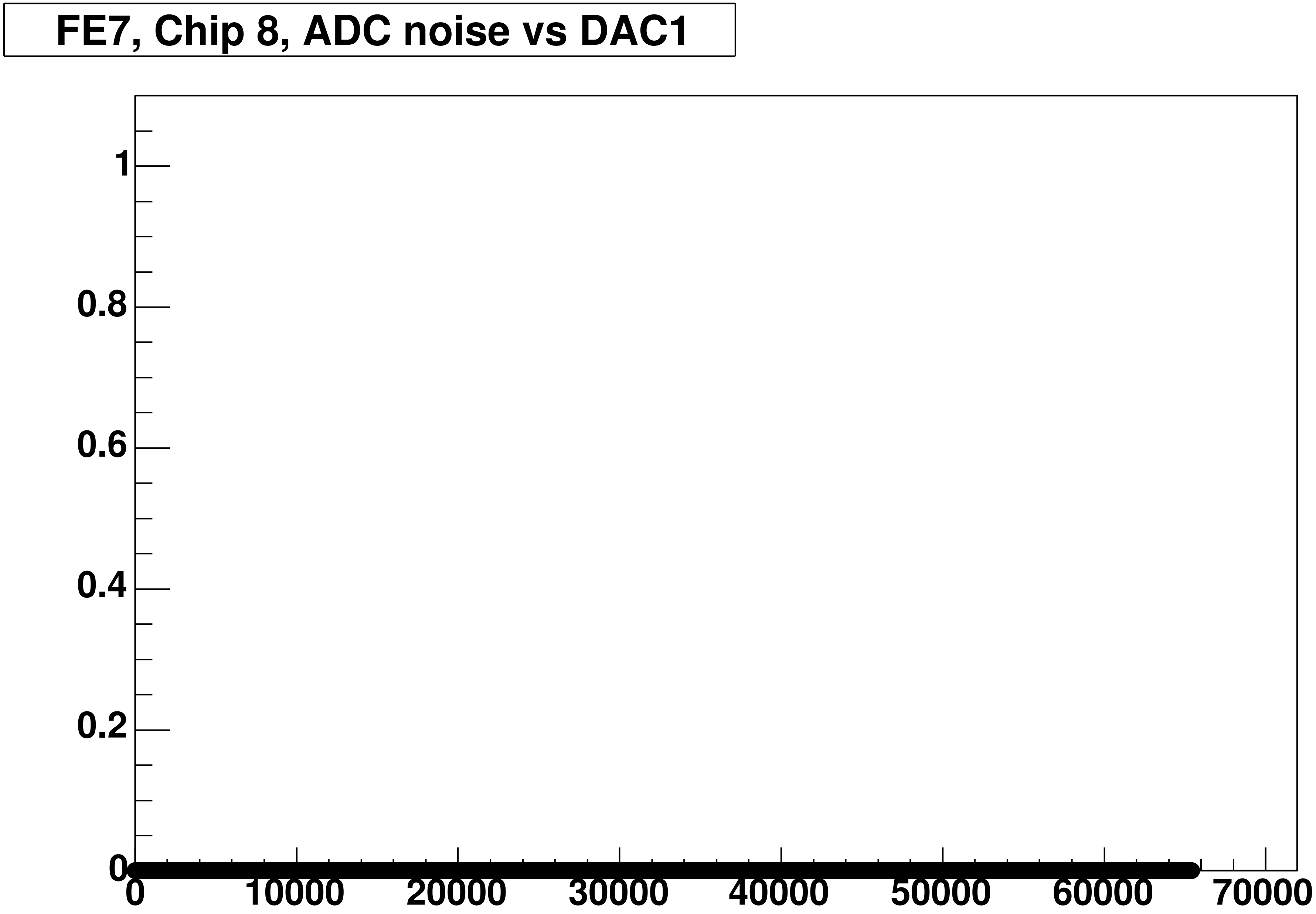
FE7, Chip 8, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

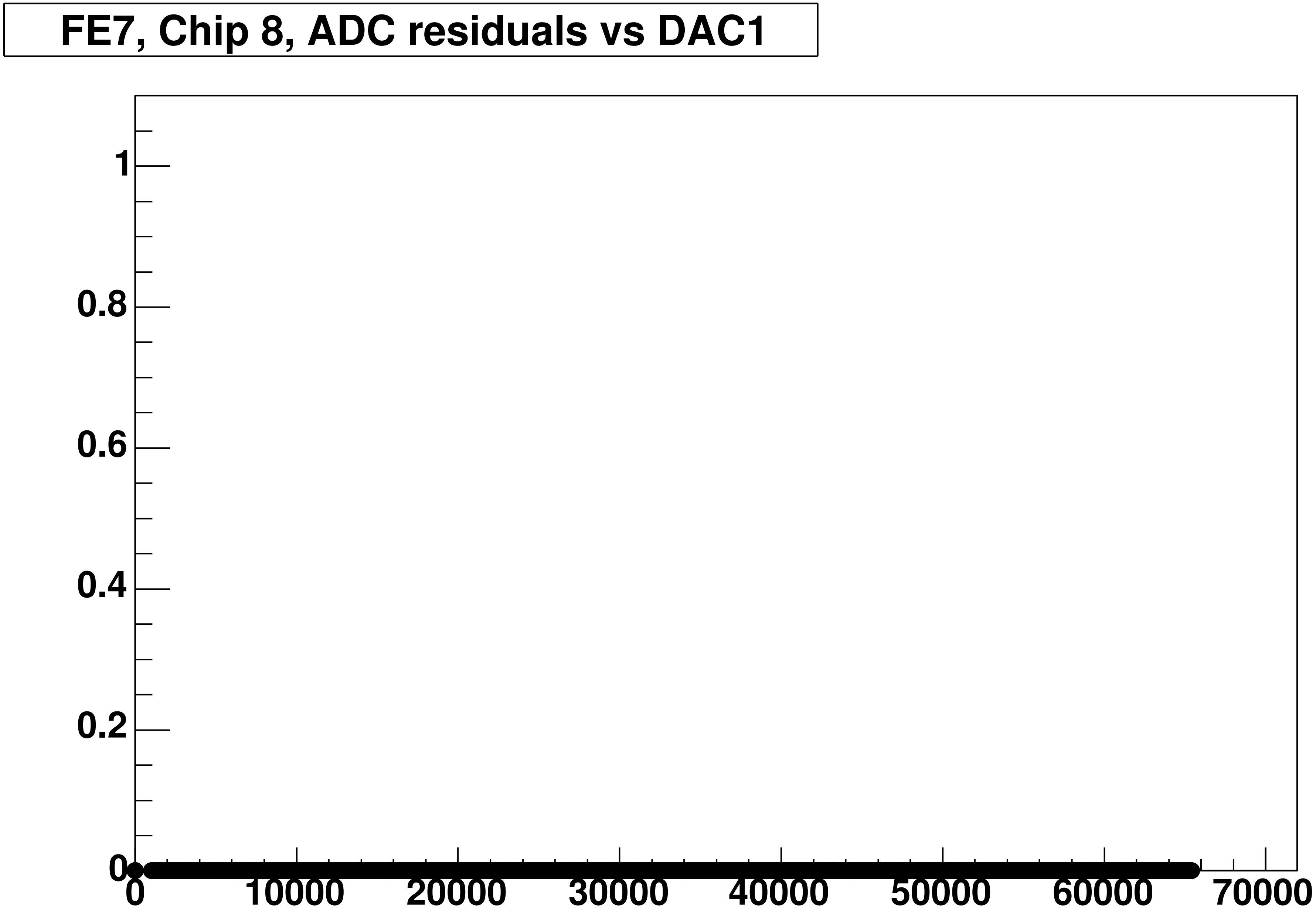

FE7, Chip 8, ADC noise vs DAC0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

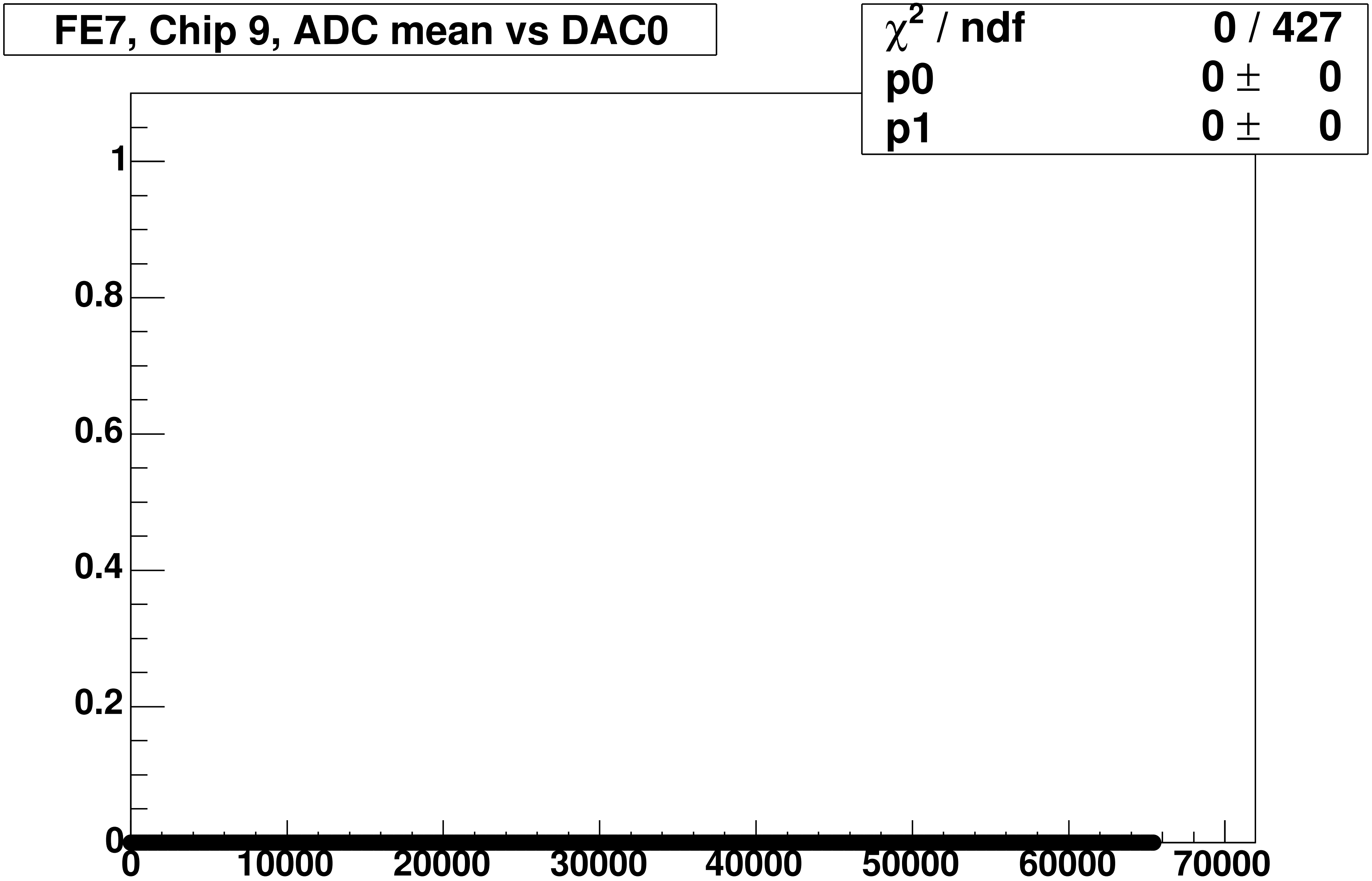
FE7, Chip 8, ADC residuals vs DAC0



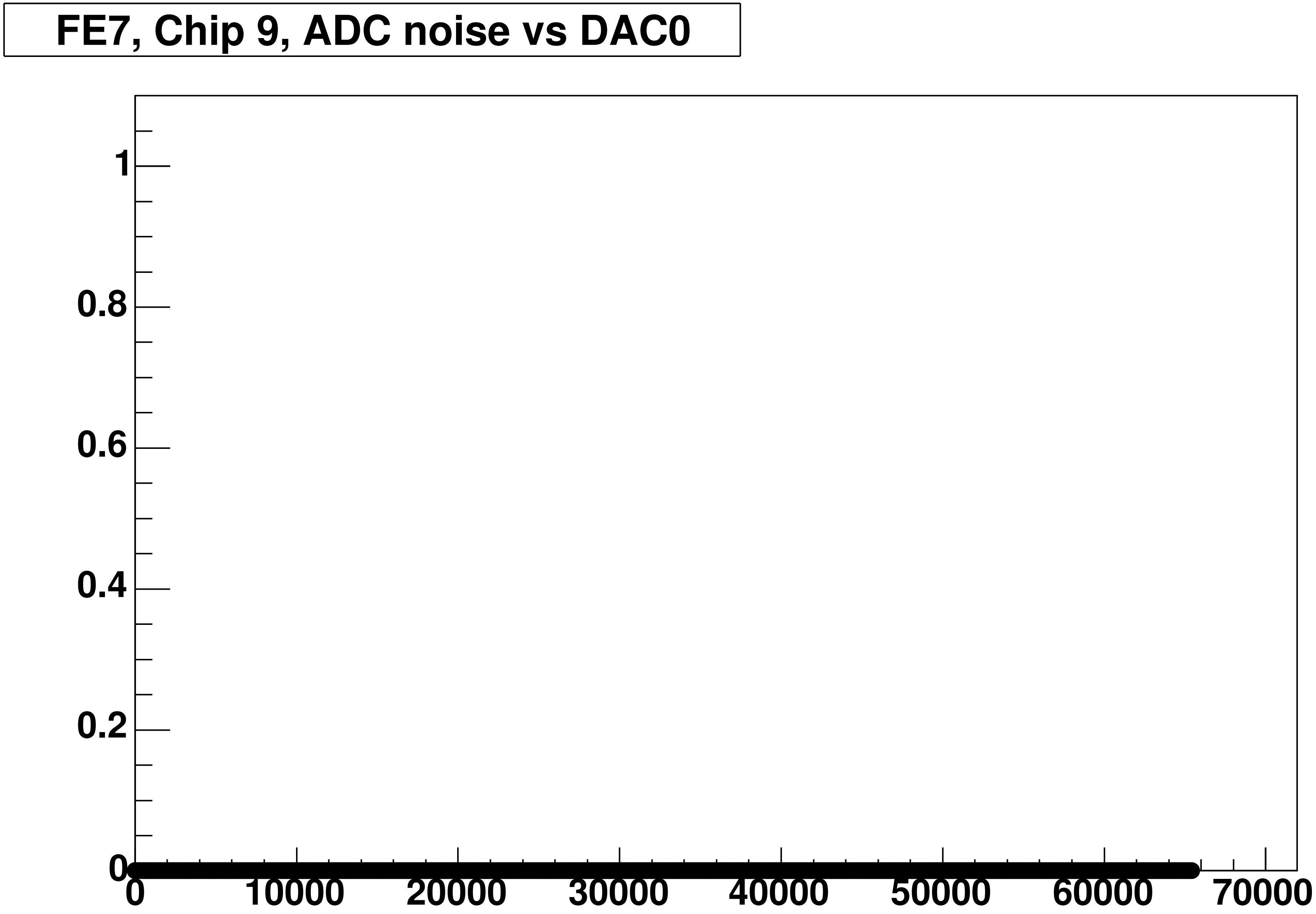

FE7, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000


FE7, Chip 8, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

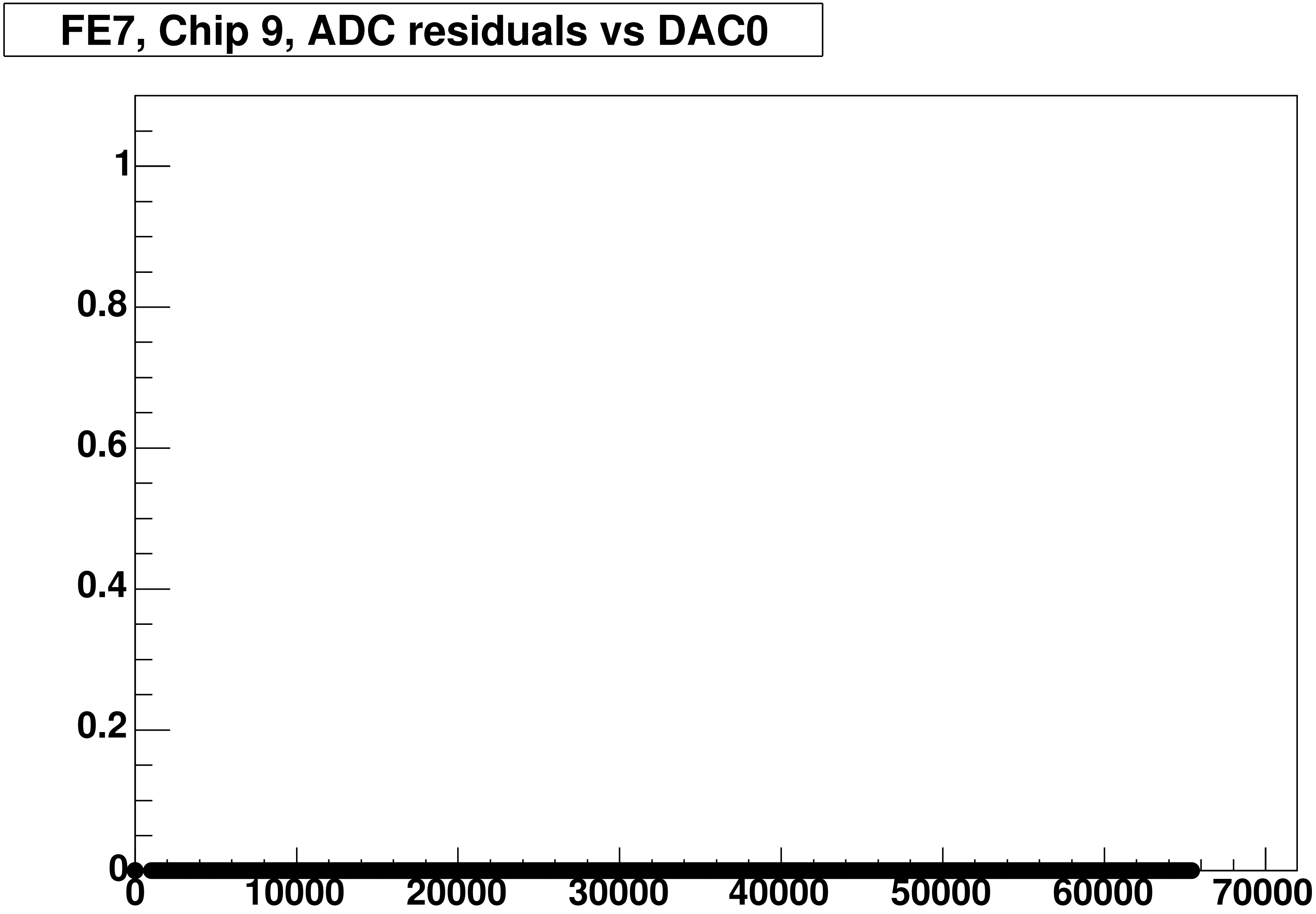

FE7, Chip 8, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

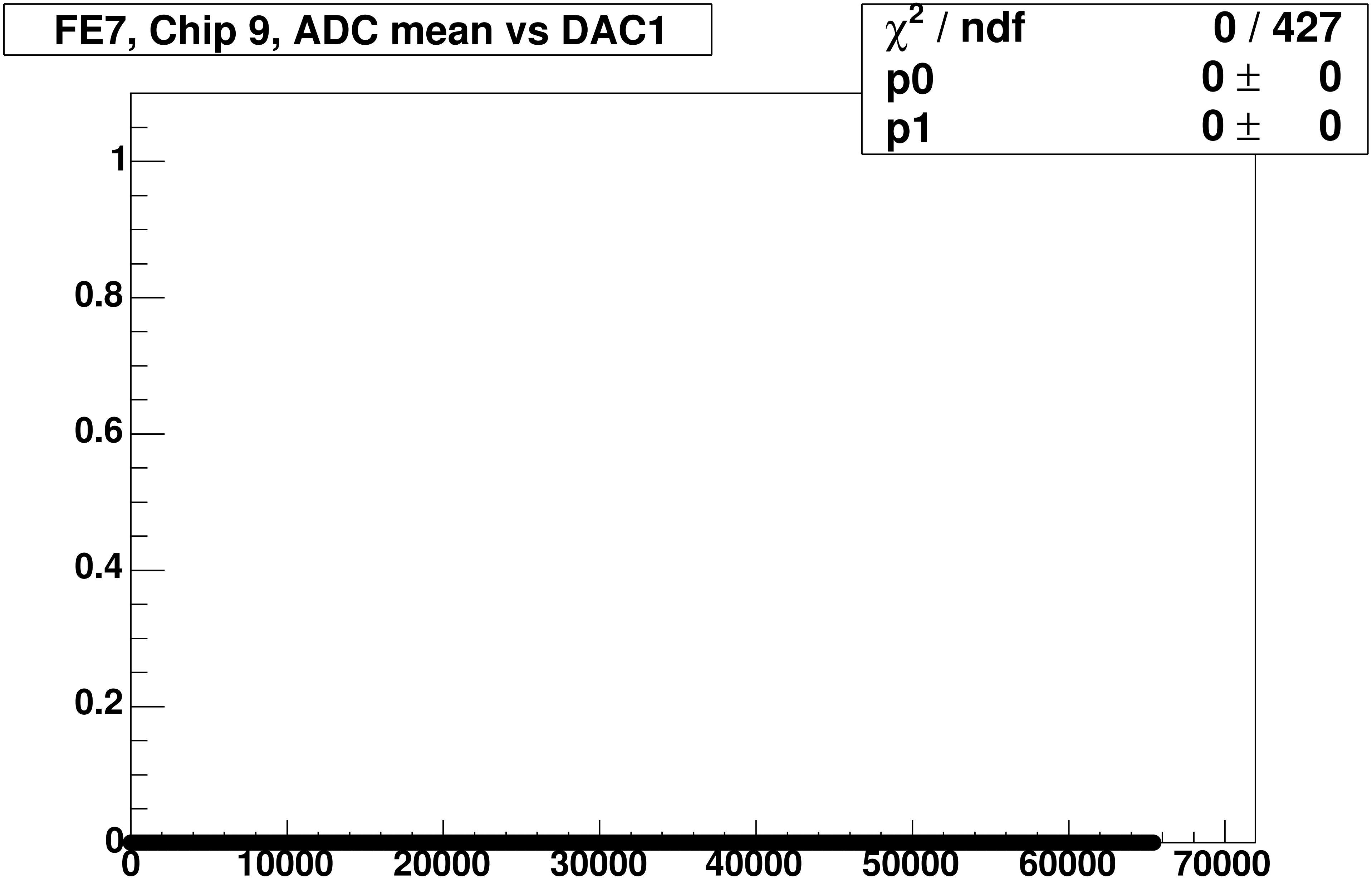


FE7, Chip 9, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



FE7, Chip 9, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE7, Chip 9, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE7, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
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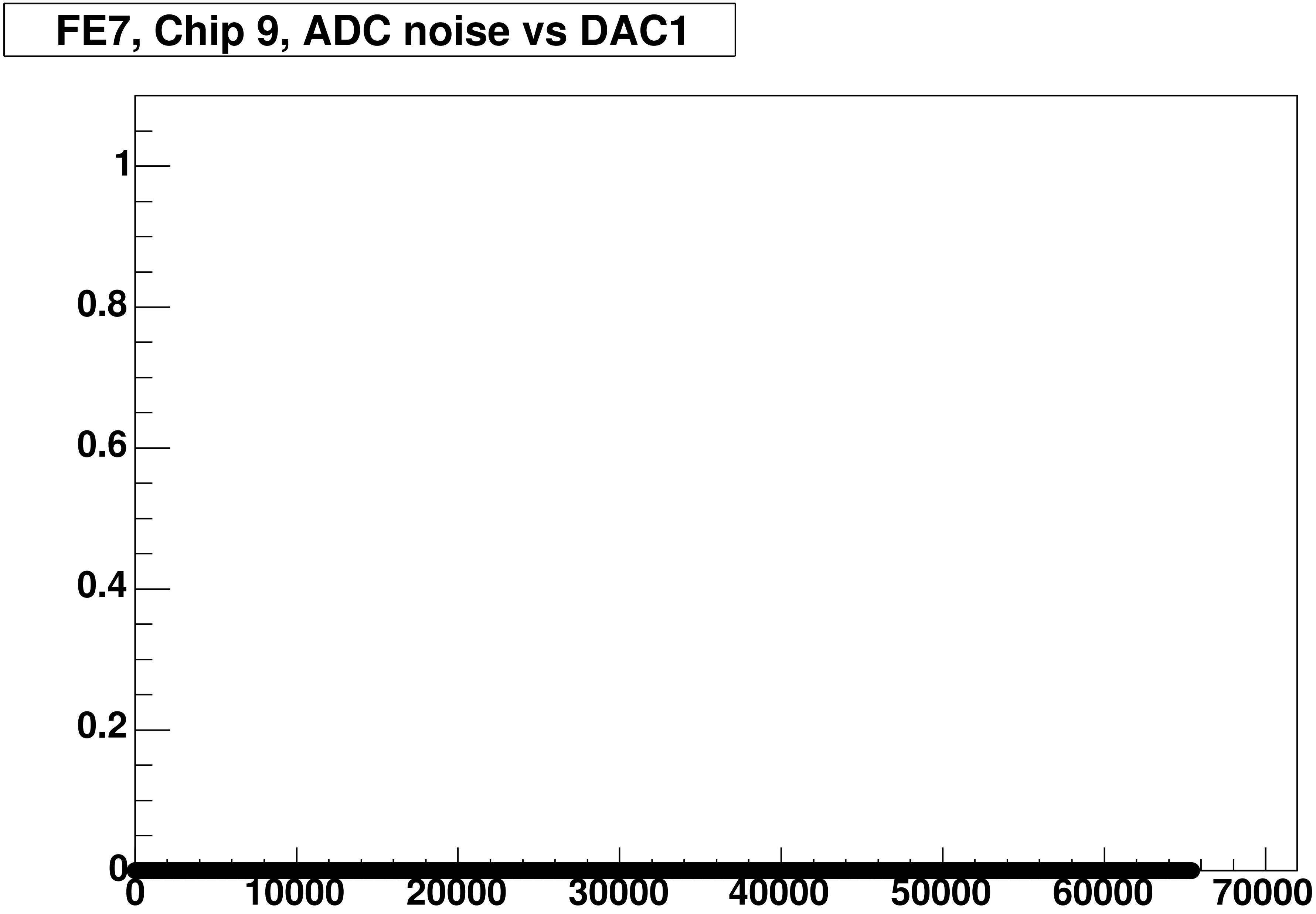
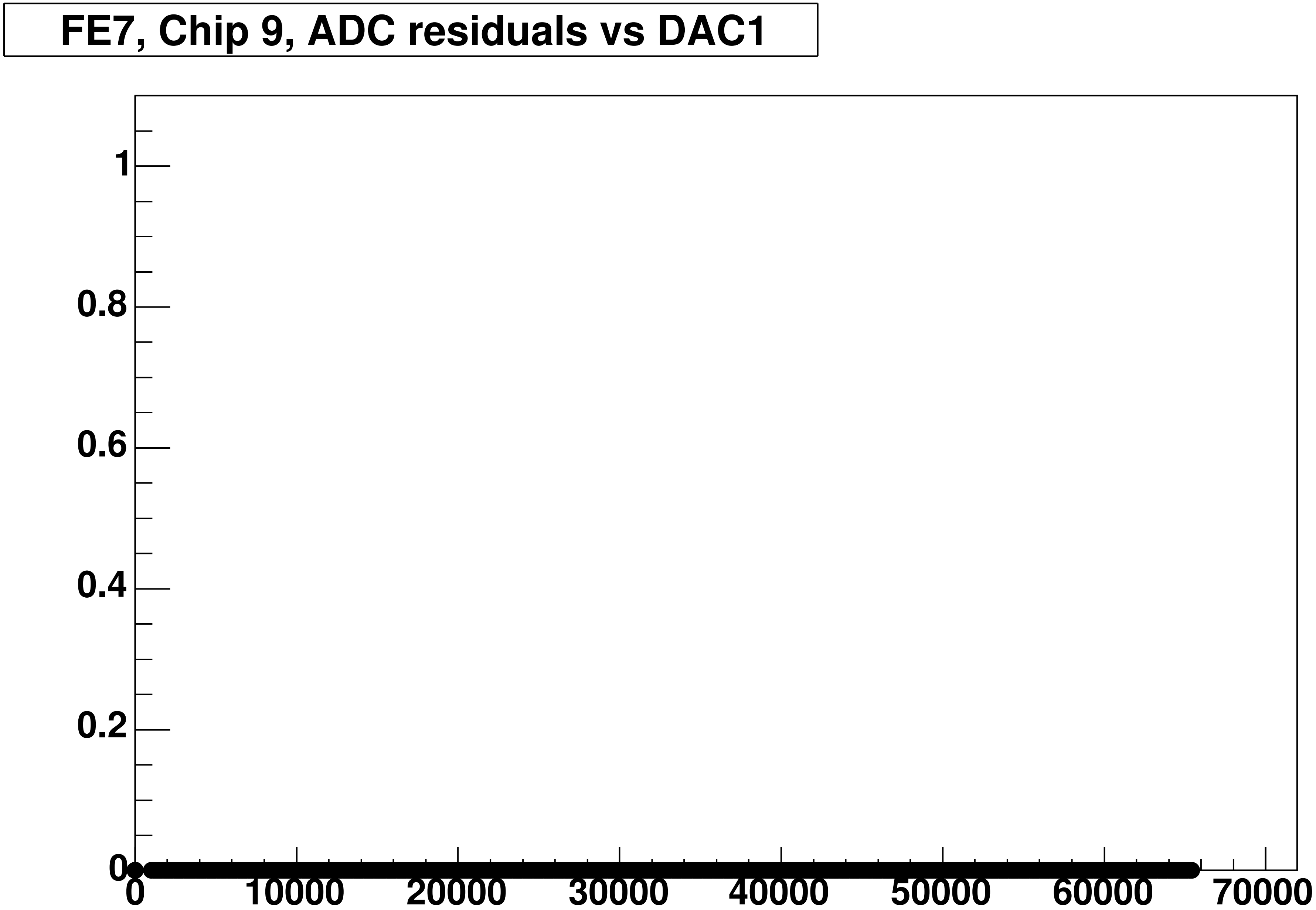
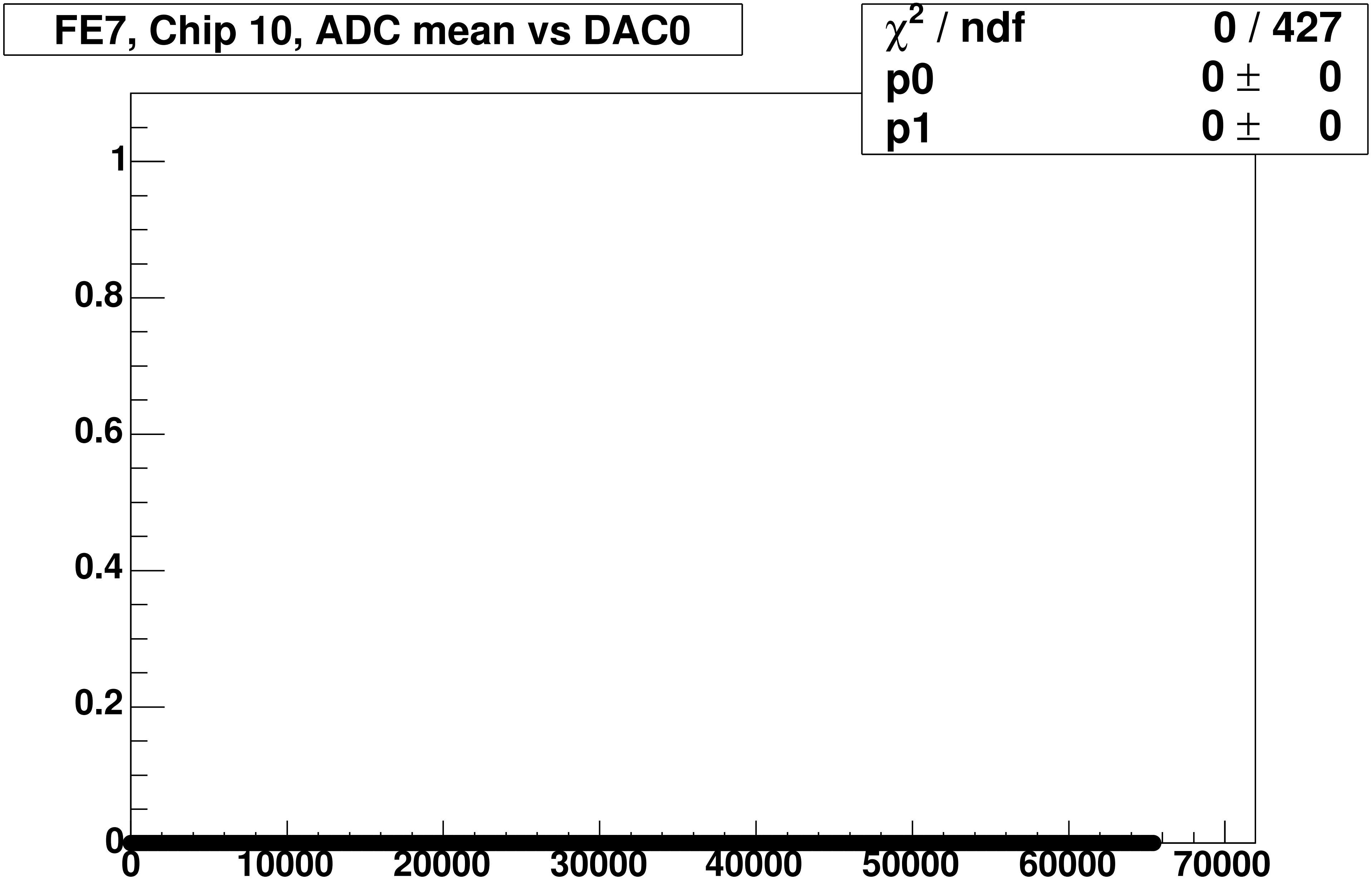
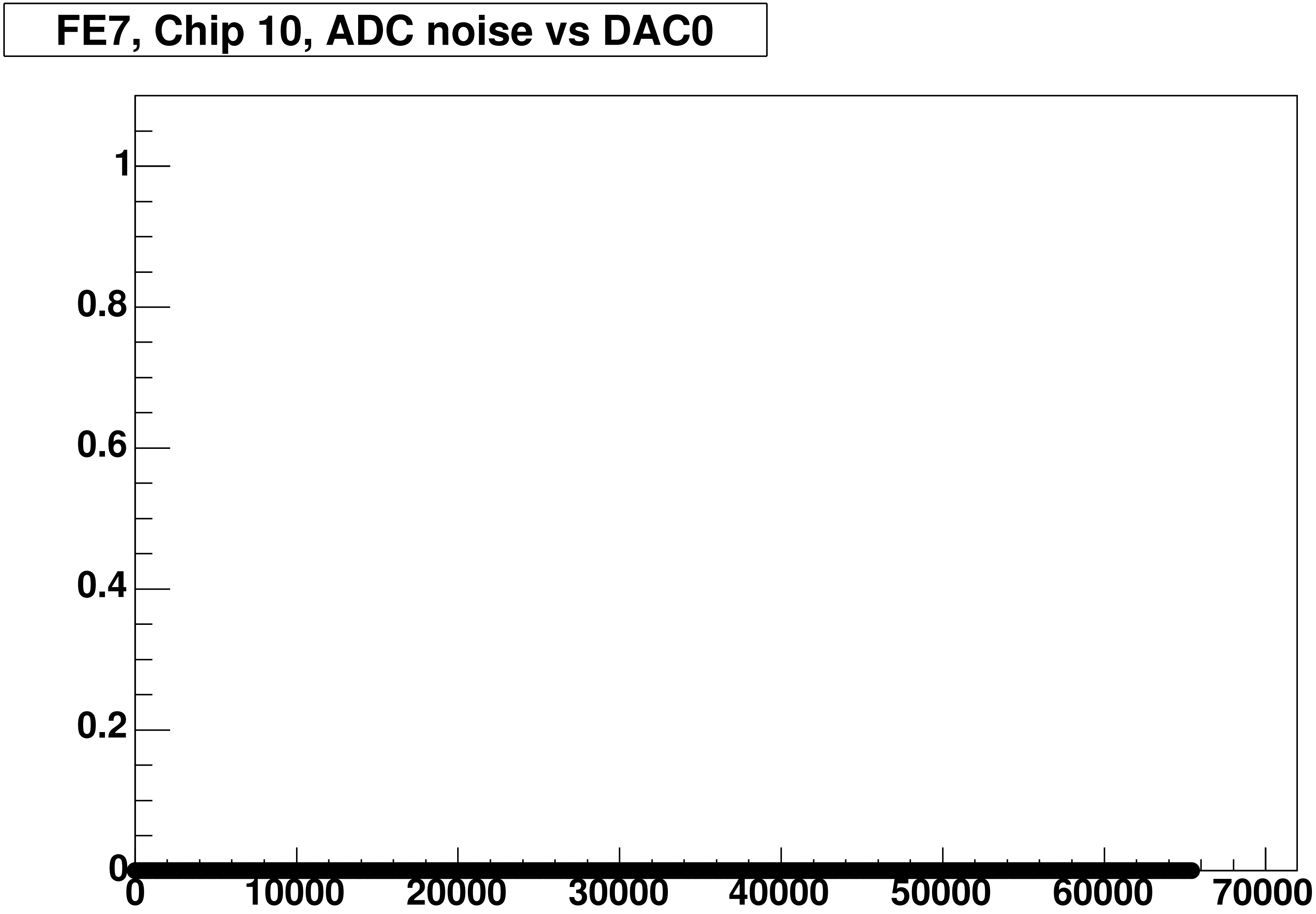
60000
70000

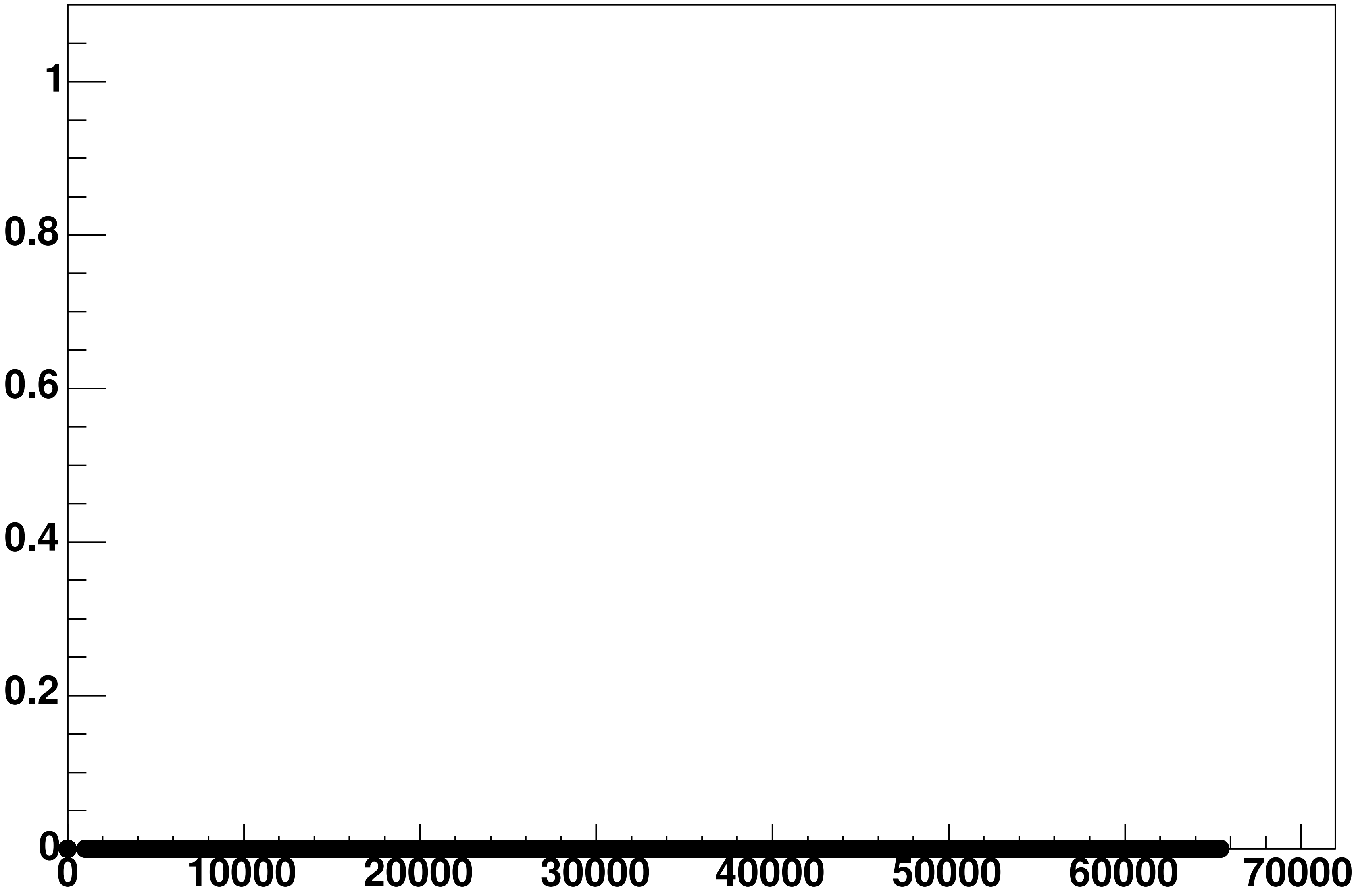

FE7, Chip 9, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

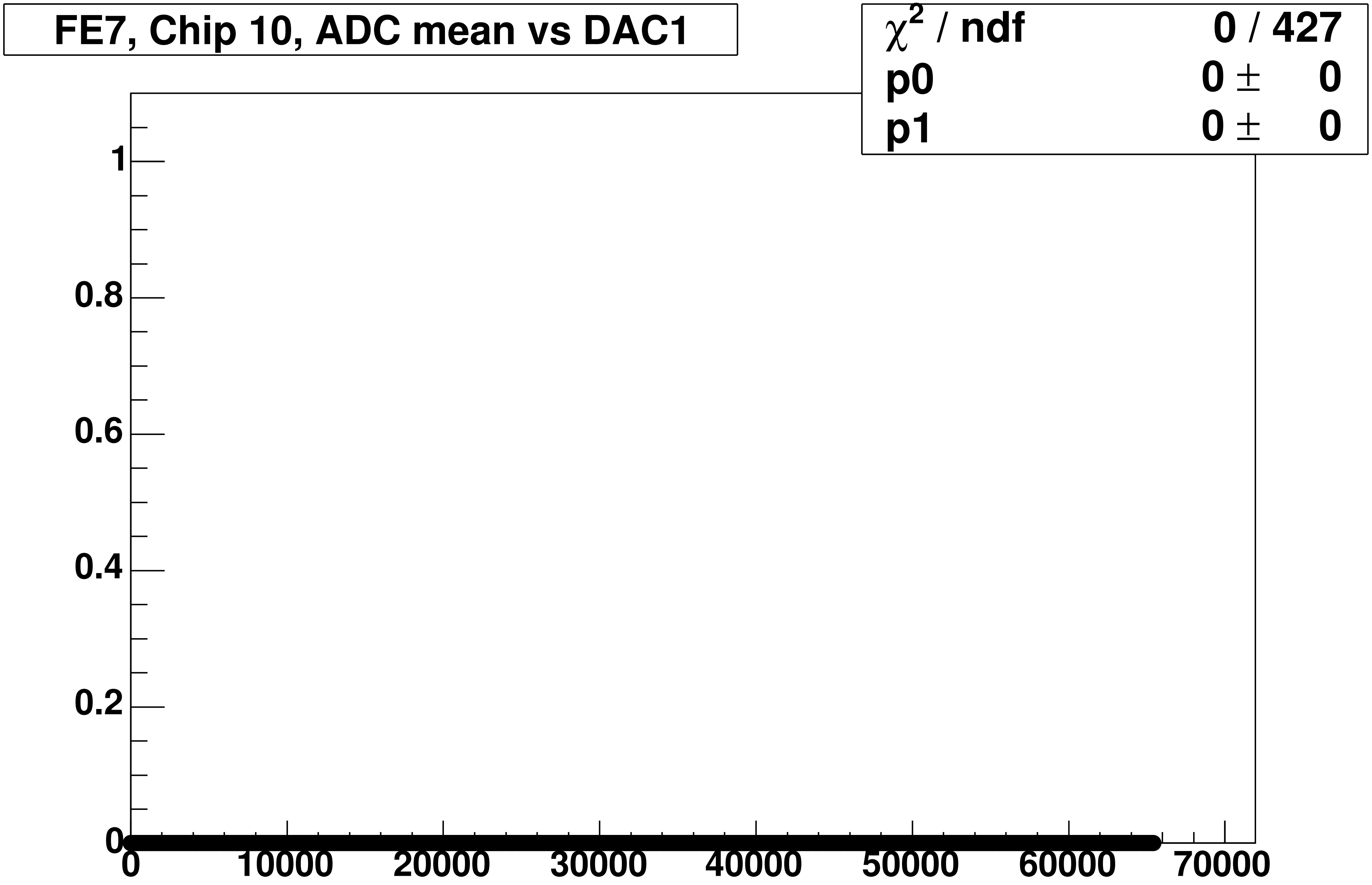

FE7, Chip 9, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

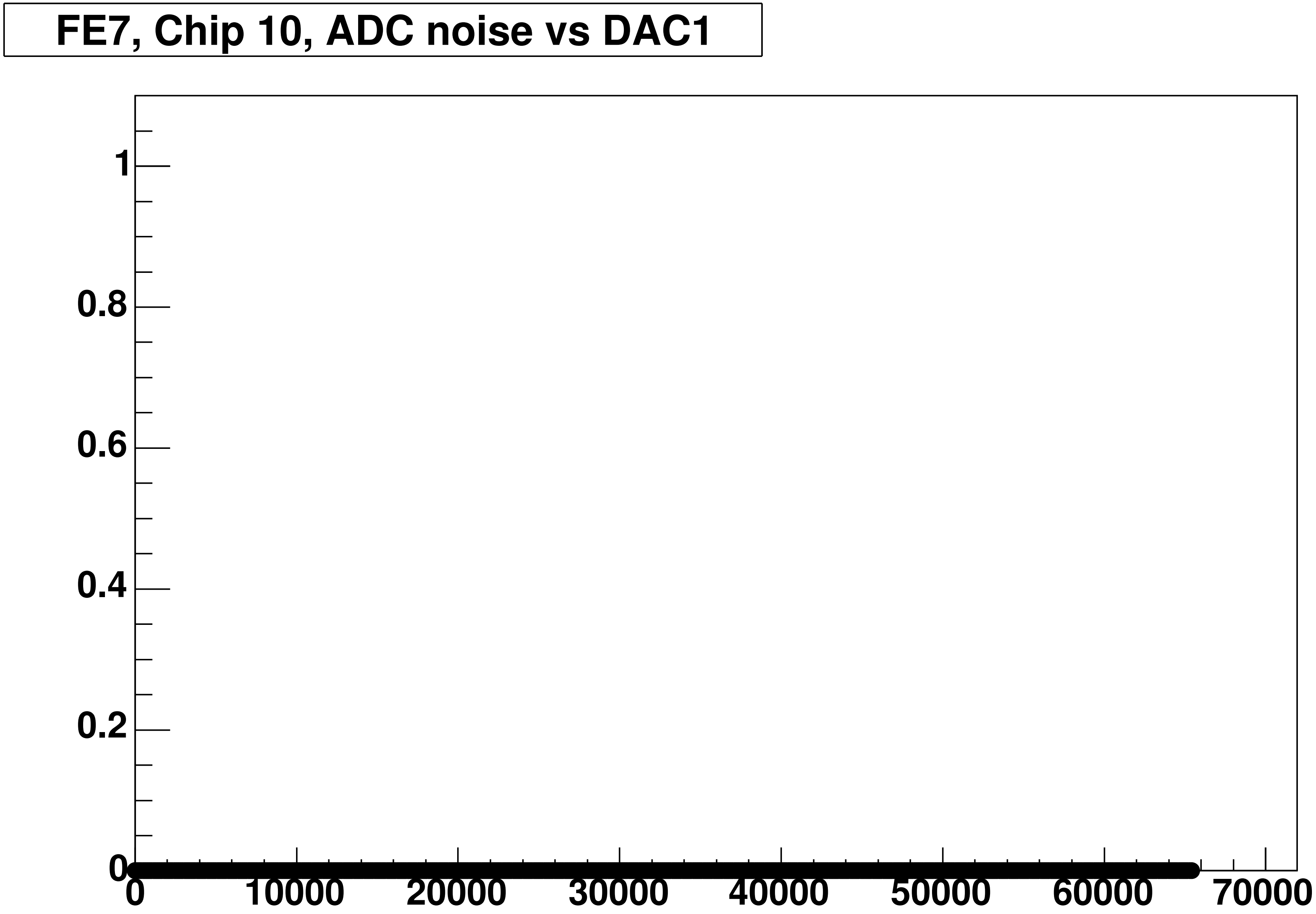

FE7, Chip 10, ADC mean vs DAC0
χ2 / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE7, Chip 10, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

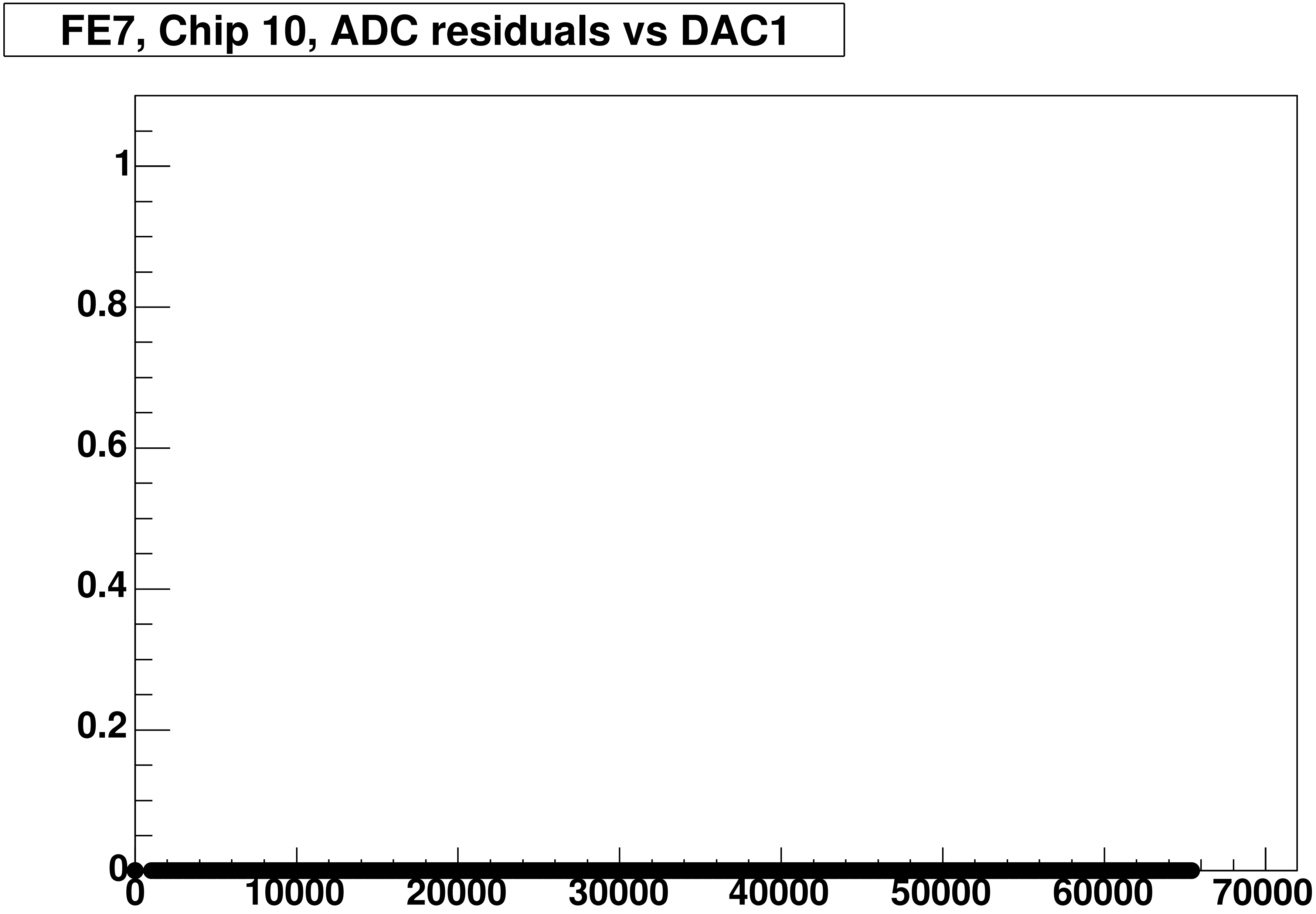
FE7, Chip 10, ADC residuals vs DAC0

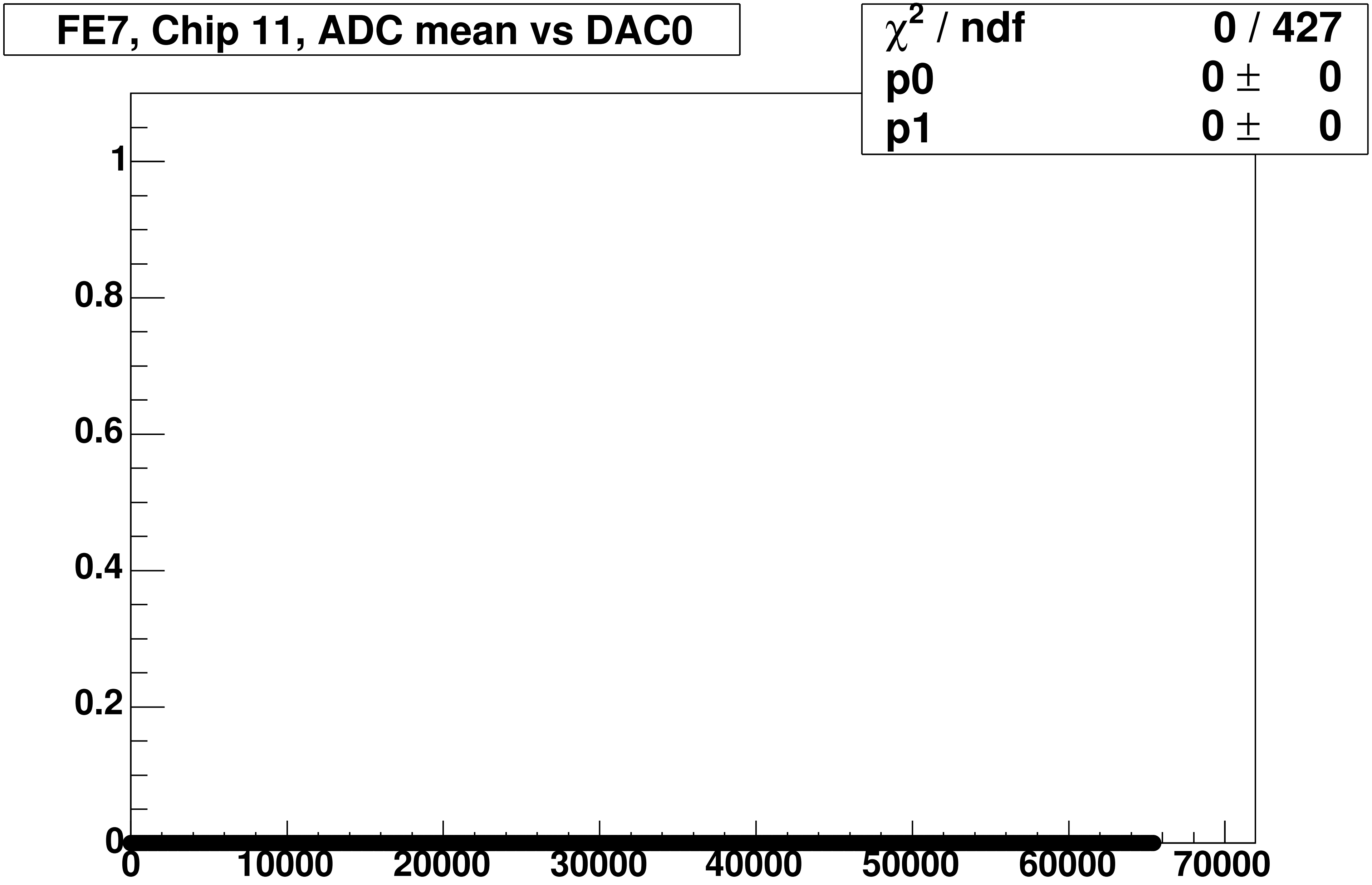



FE7, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
10000
20000
30000
40000
50000
60000
70000

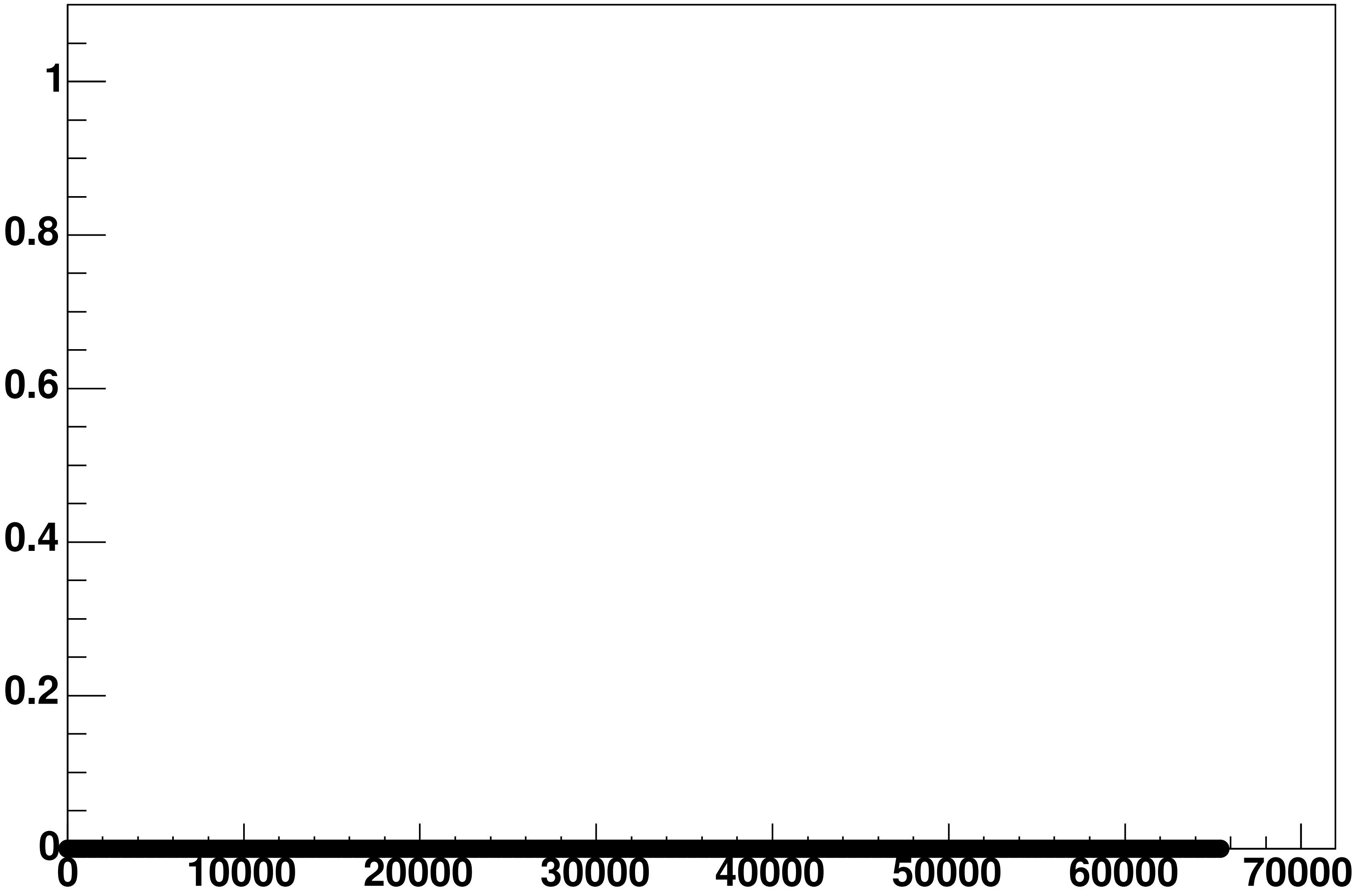


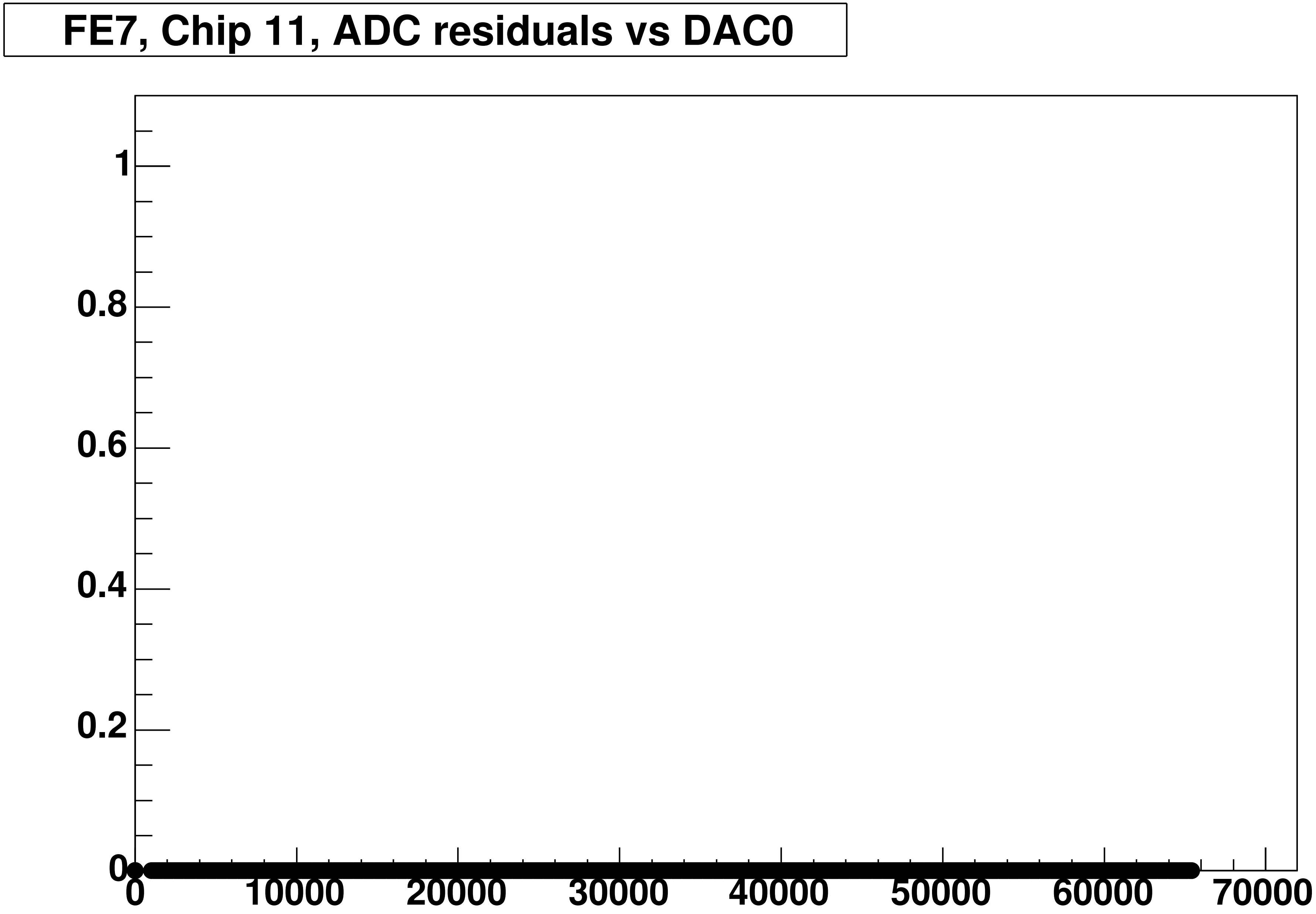
FE7, Chip 10, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE7, Chip 10, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

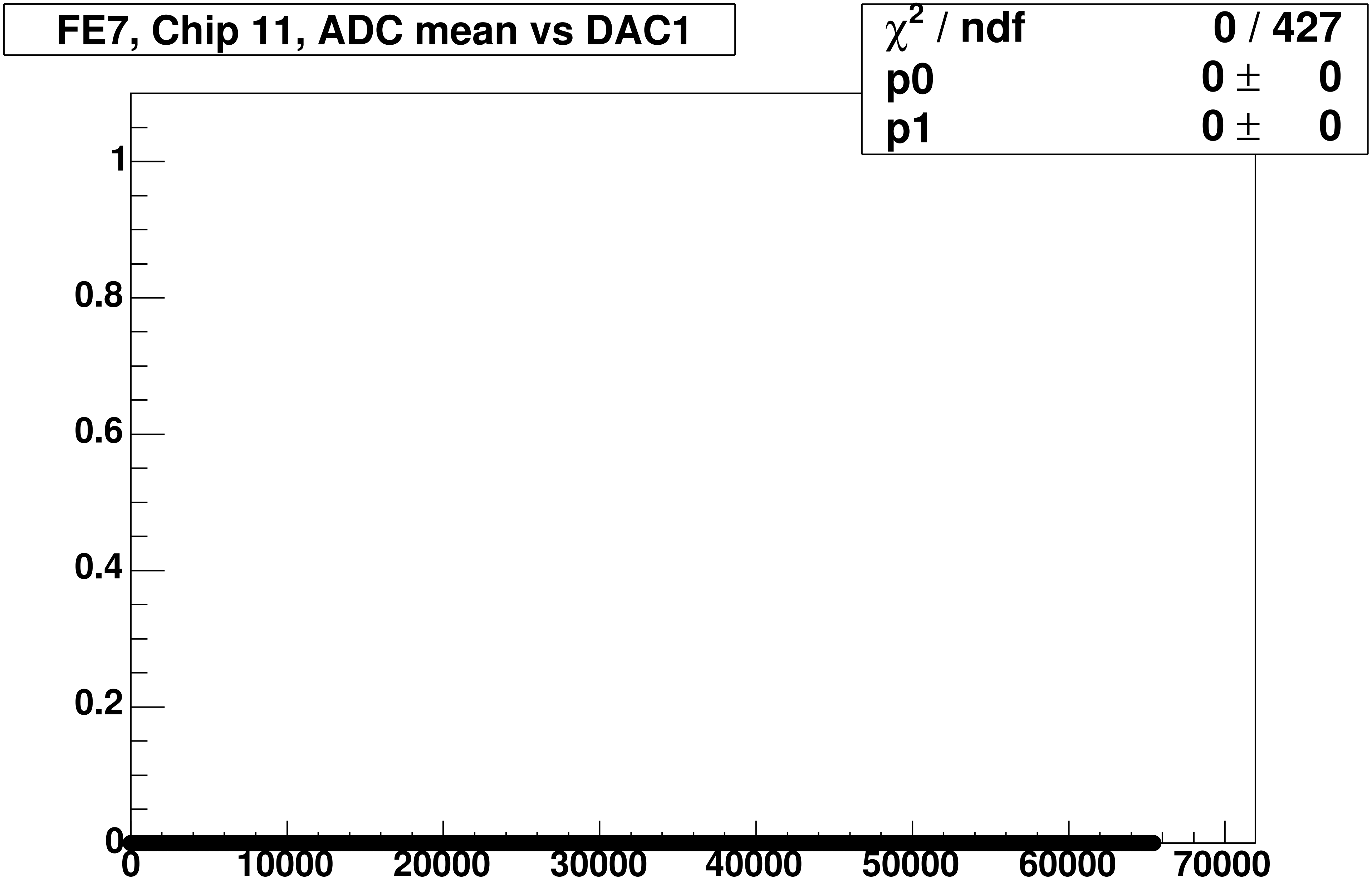

FE7, Chip 11, ADC mean vs DAC0
χ² / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

FE7, Chip 11, ADC noise vs DAC0

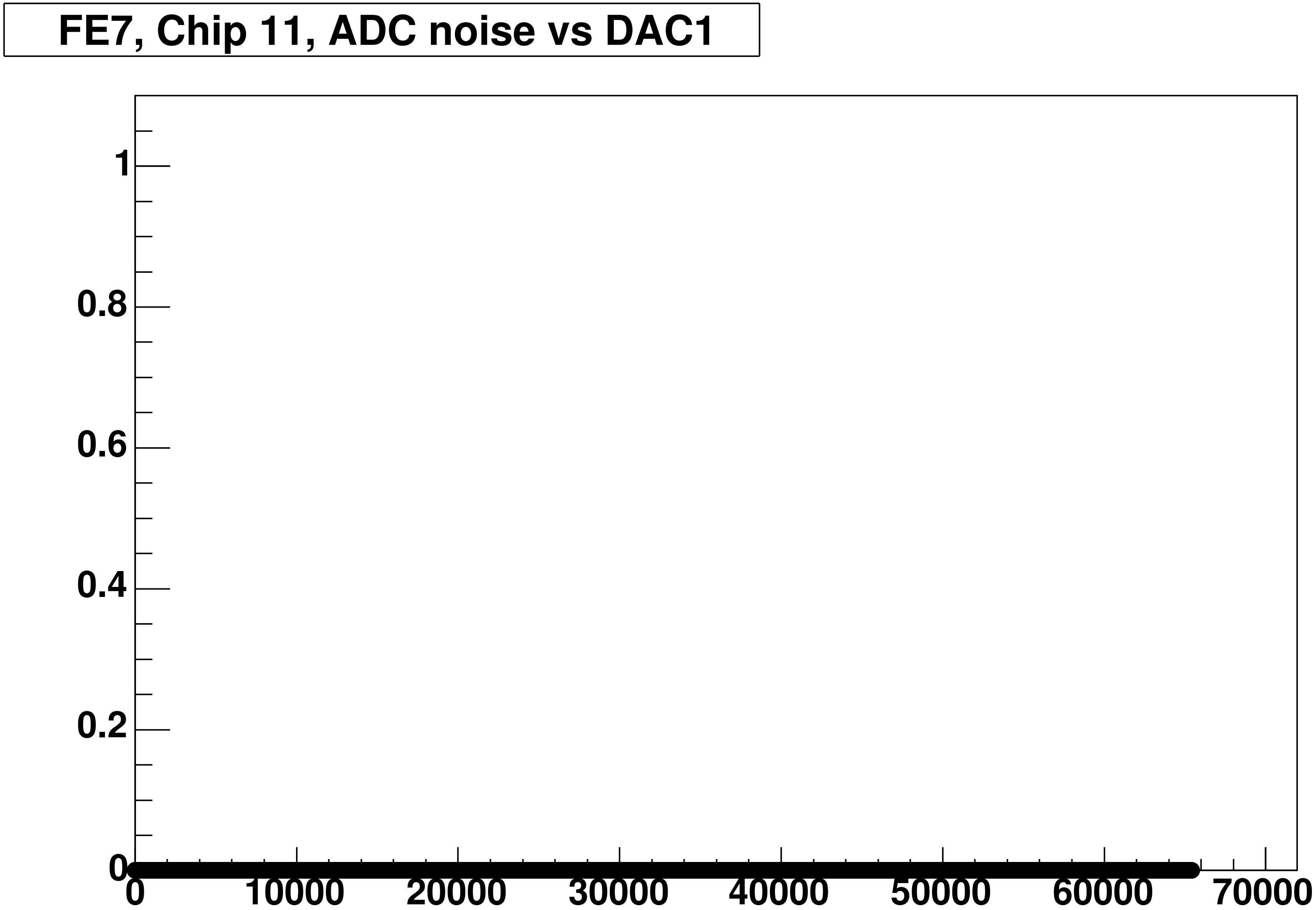




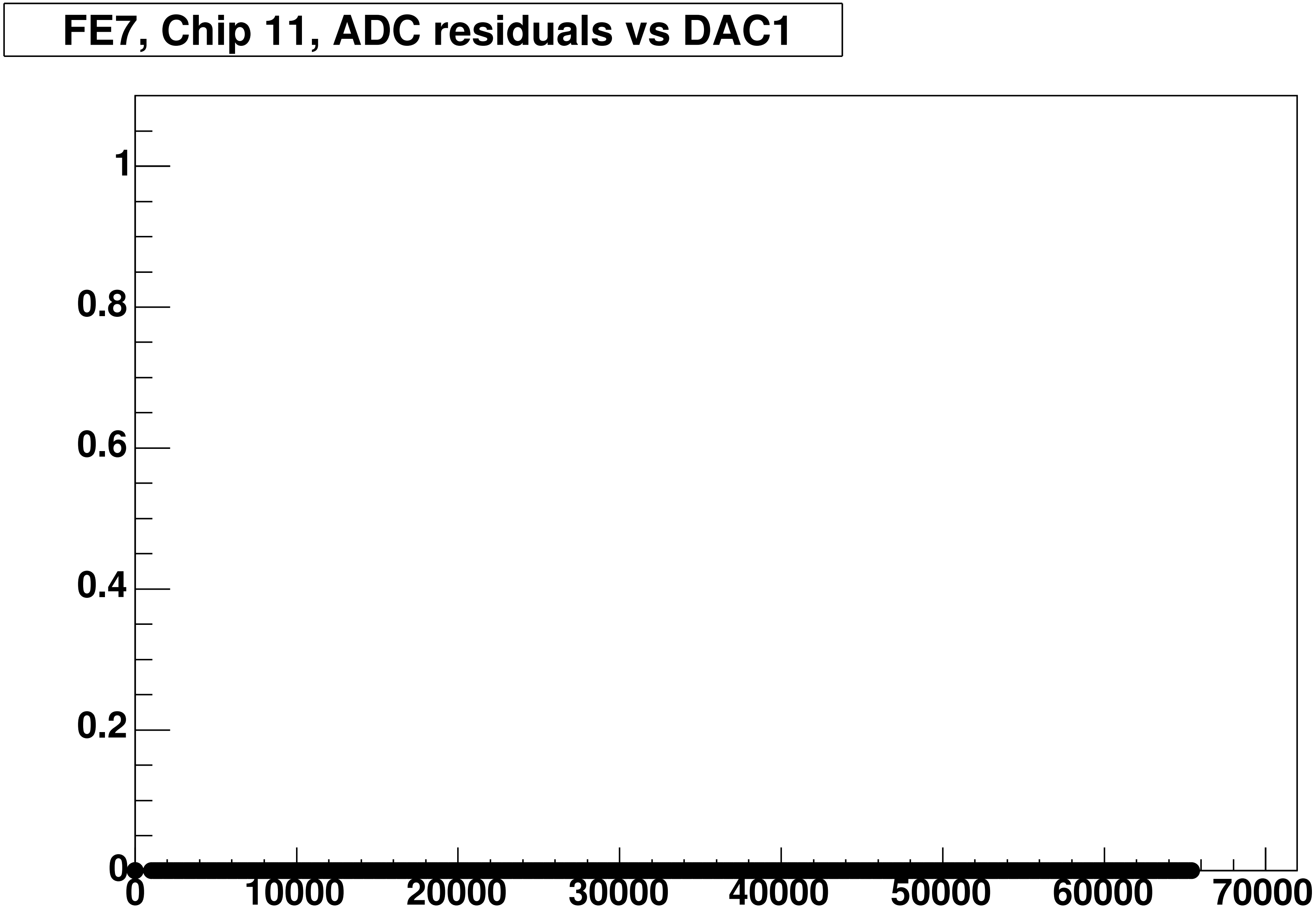
FE7, Chip 11, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000

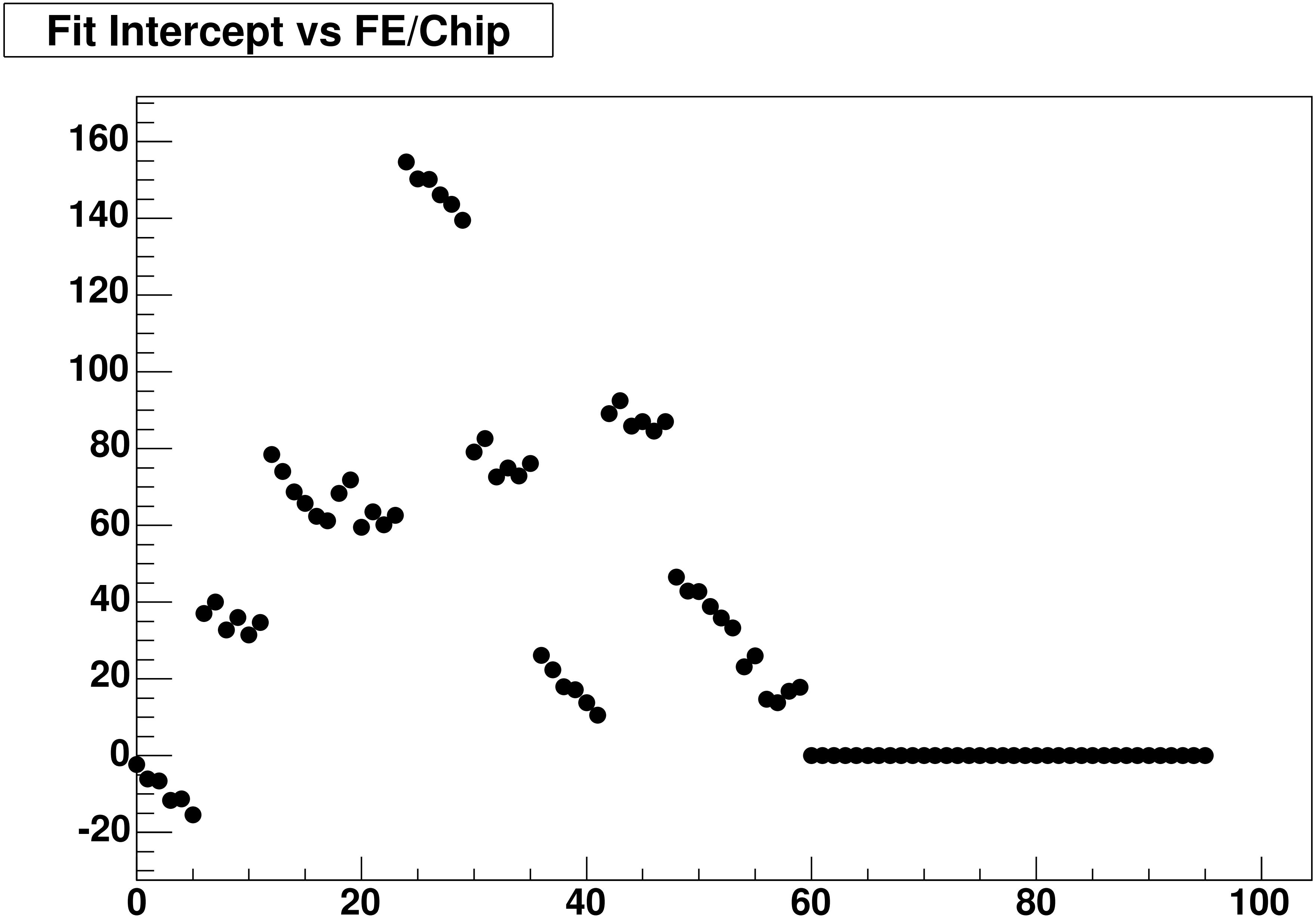


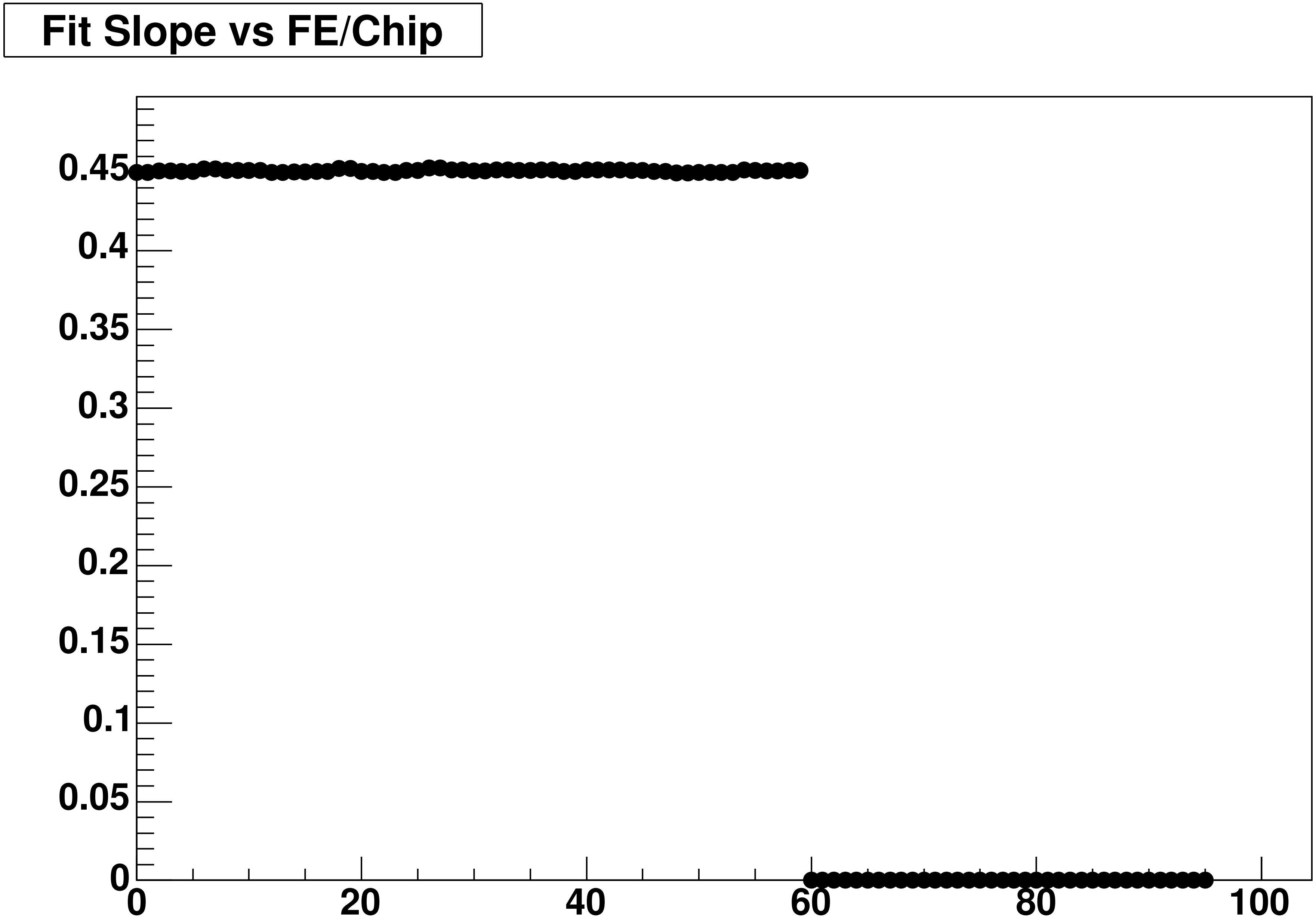
FE7, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 427
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000



FE7, Chip 11, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


FE7, Chip 11, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
60000
70000


Fit Intercept vs FE/Chip
160
140
120
100
80
60
40
20
0
-20
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