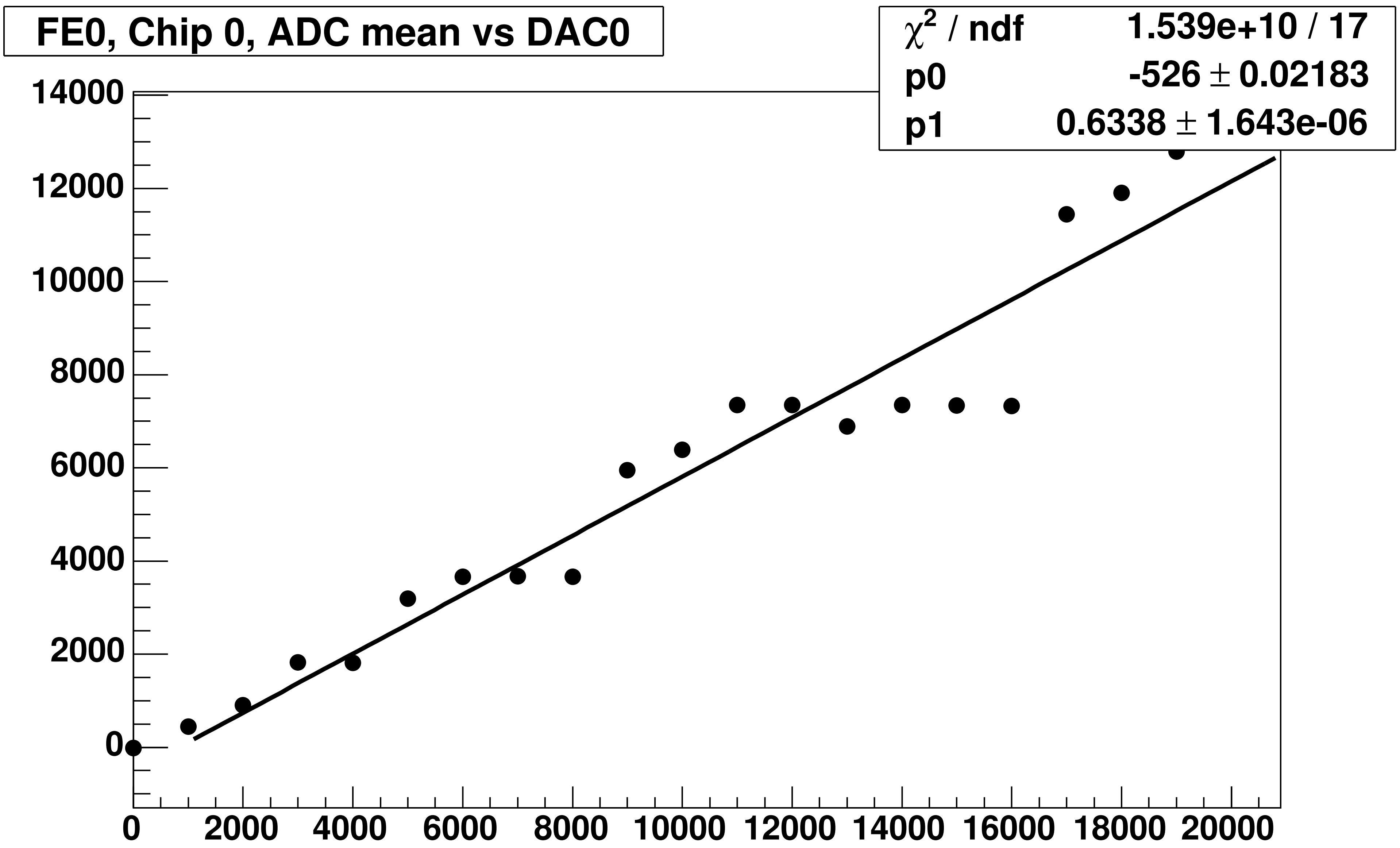
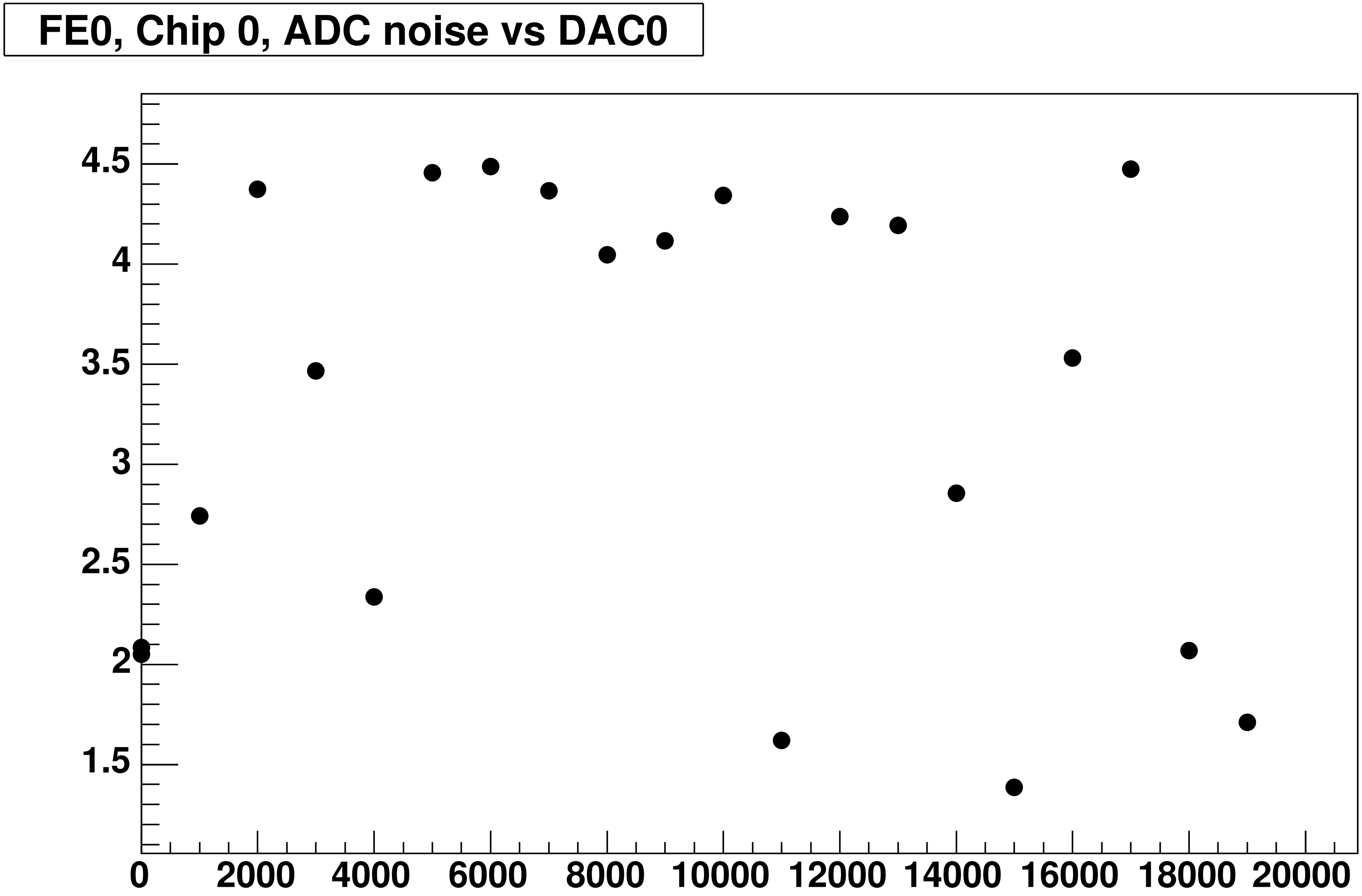
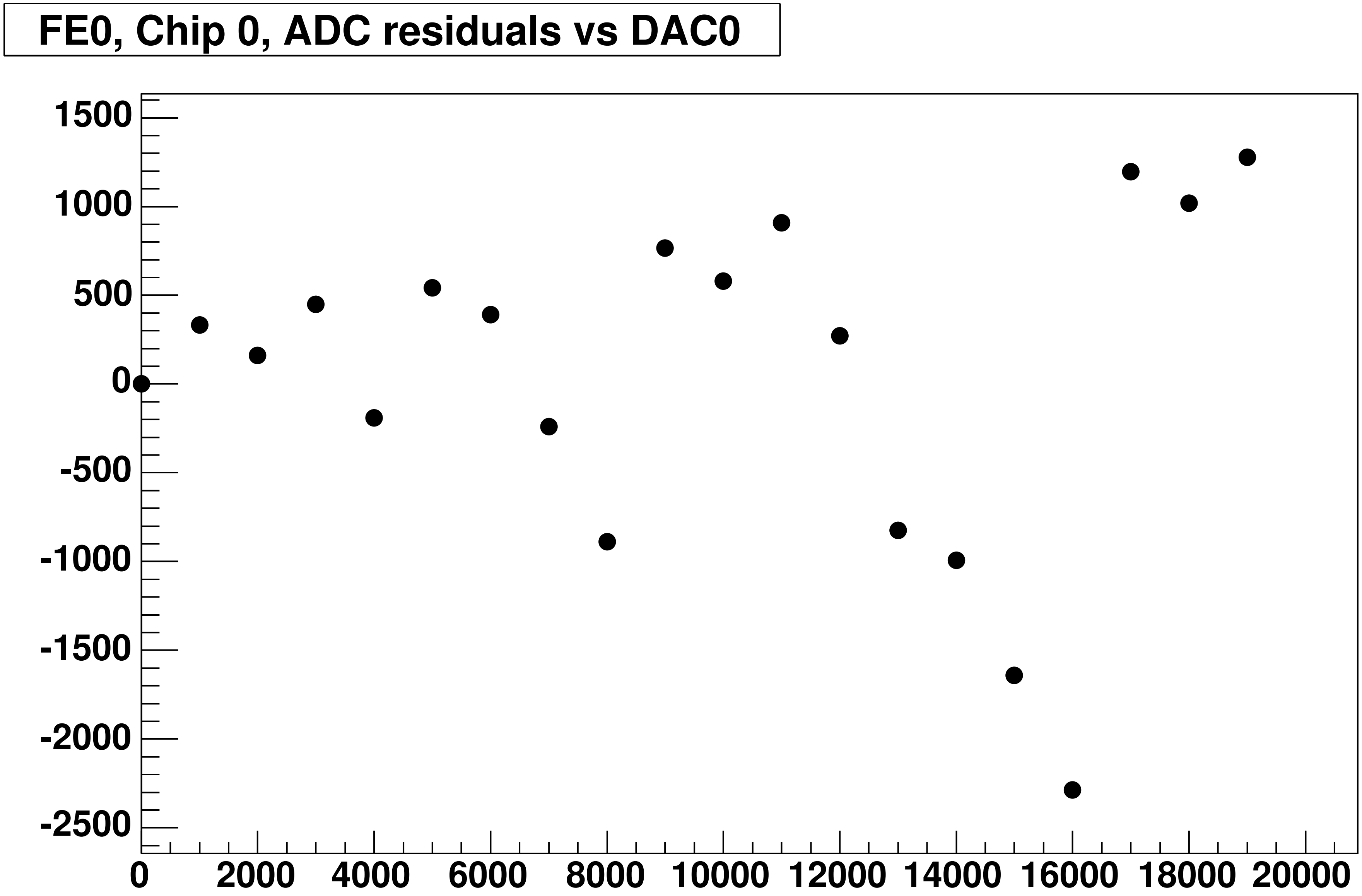
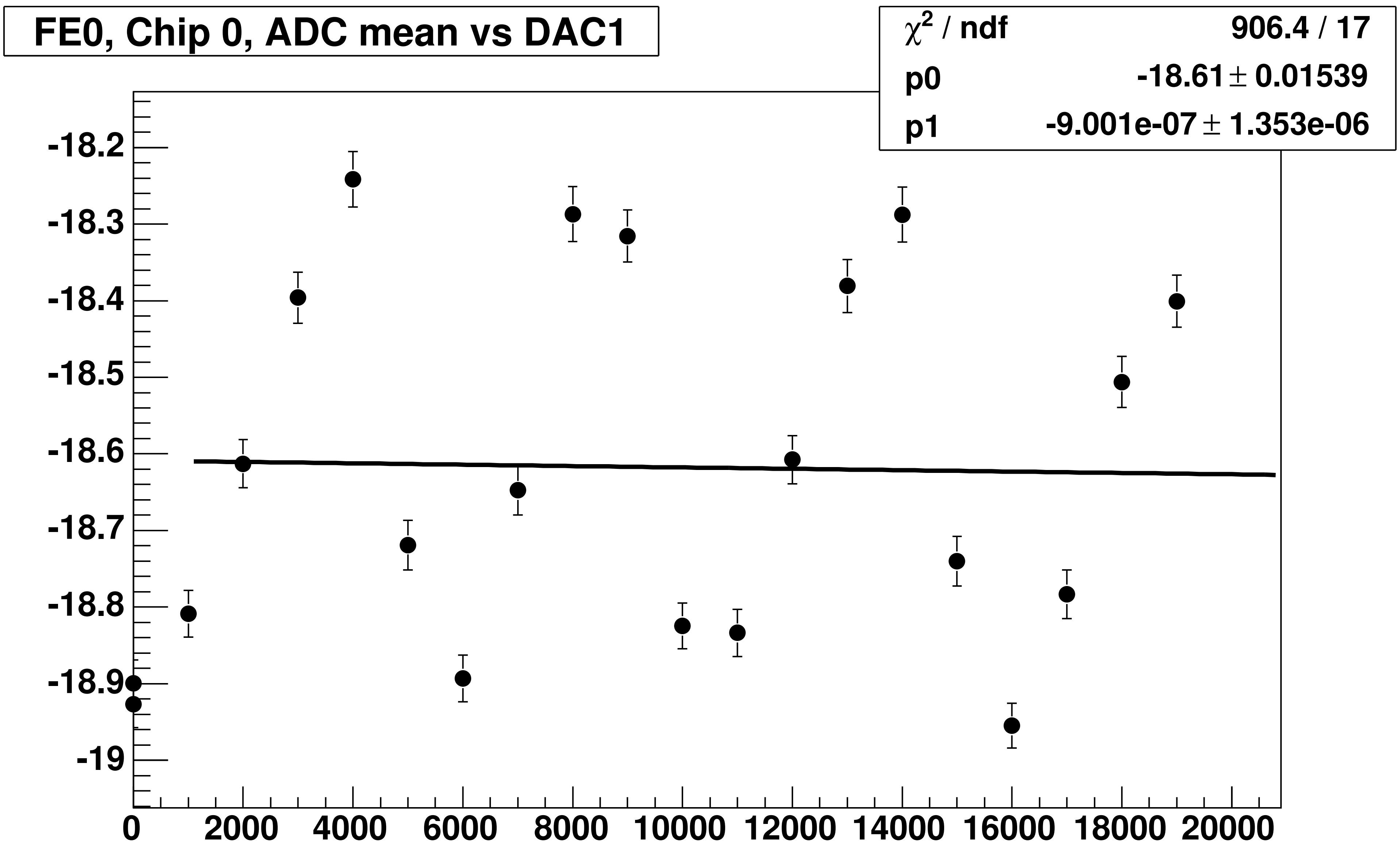
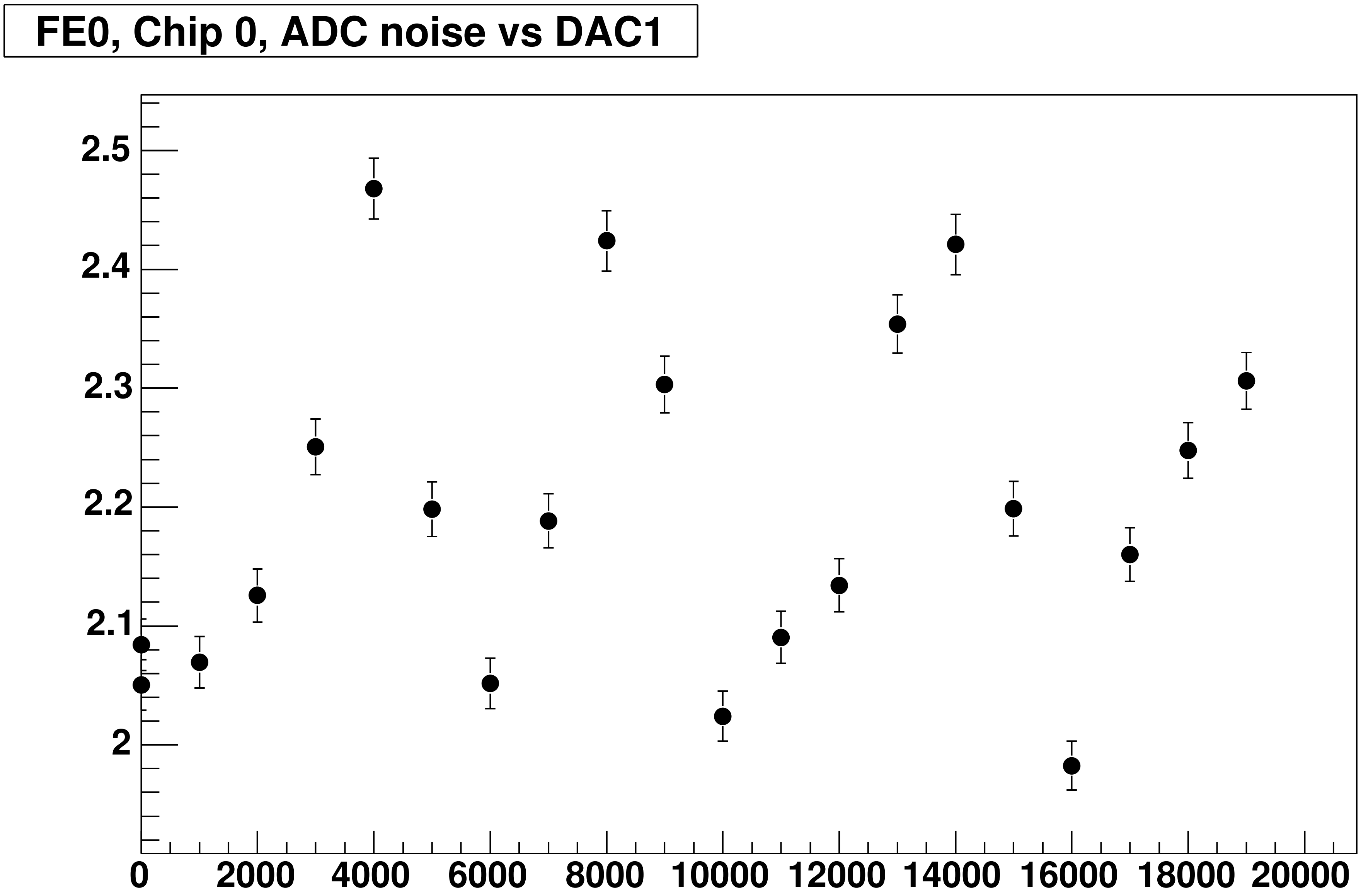

FE0, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 1.539e+10 / 17
p0 -526 ± 0.02183
p1 0.6338 ± 1.643e-06
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

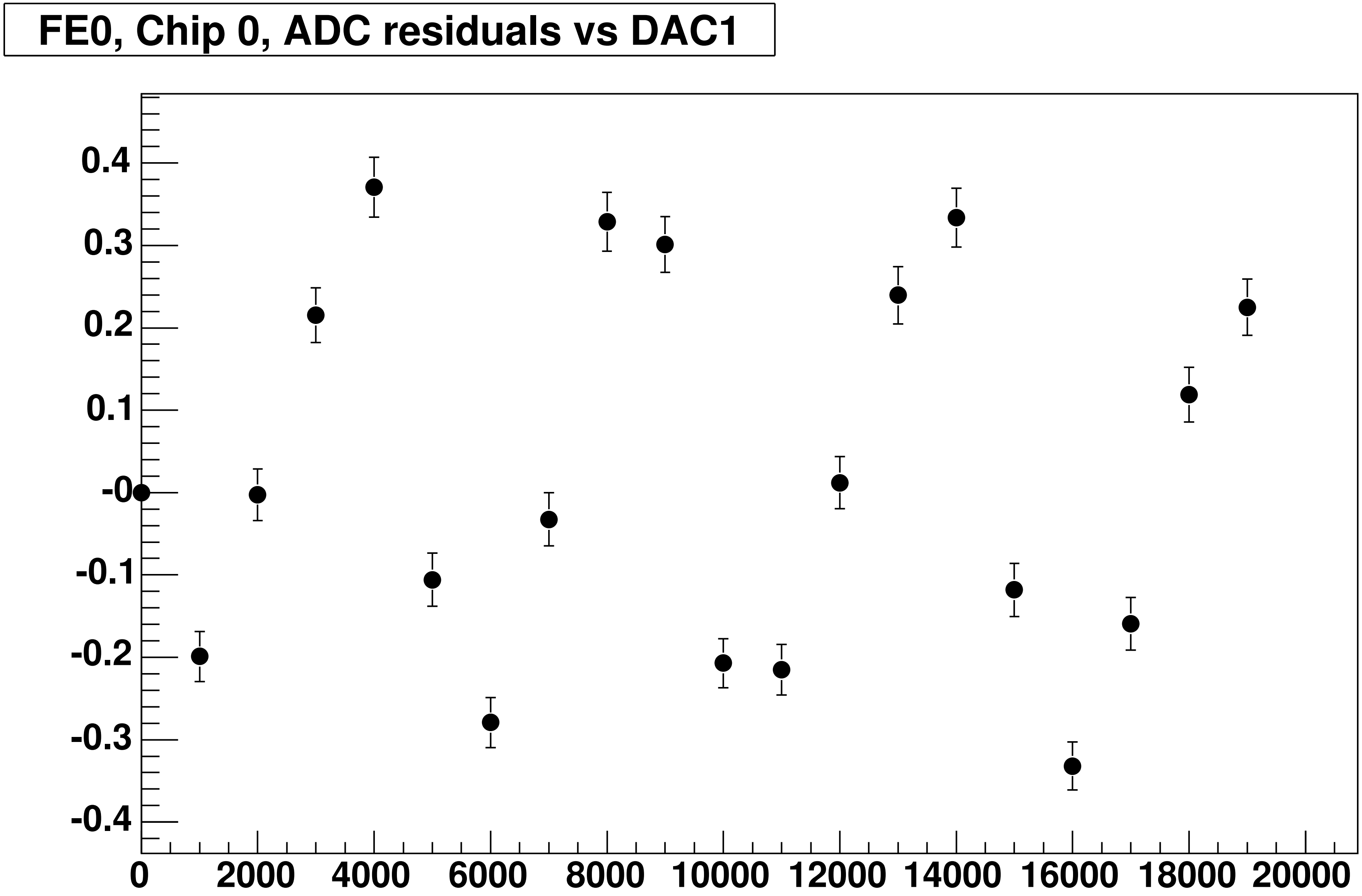

FE0, Chip 0, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

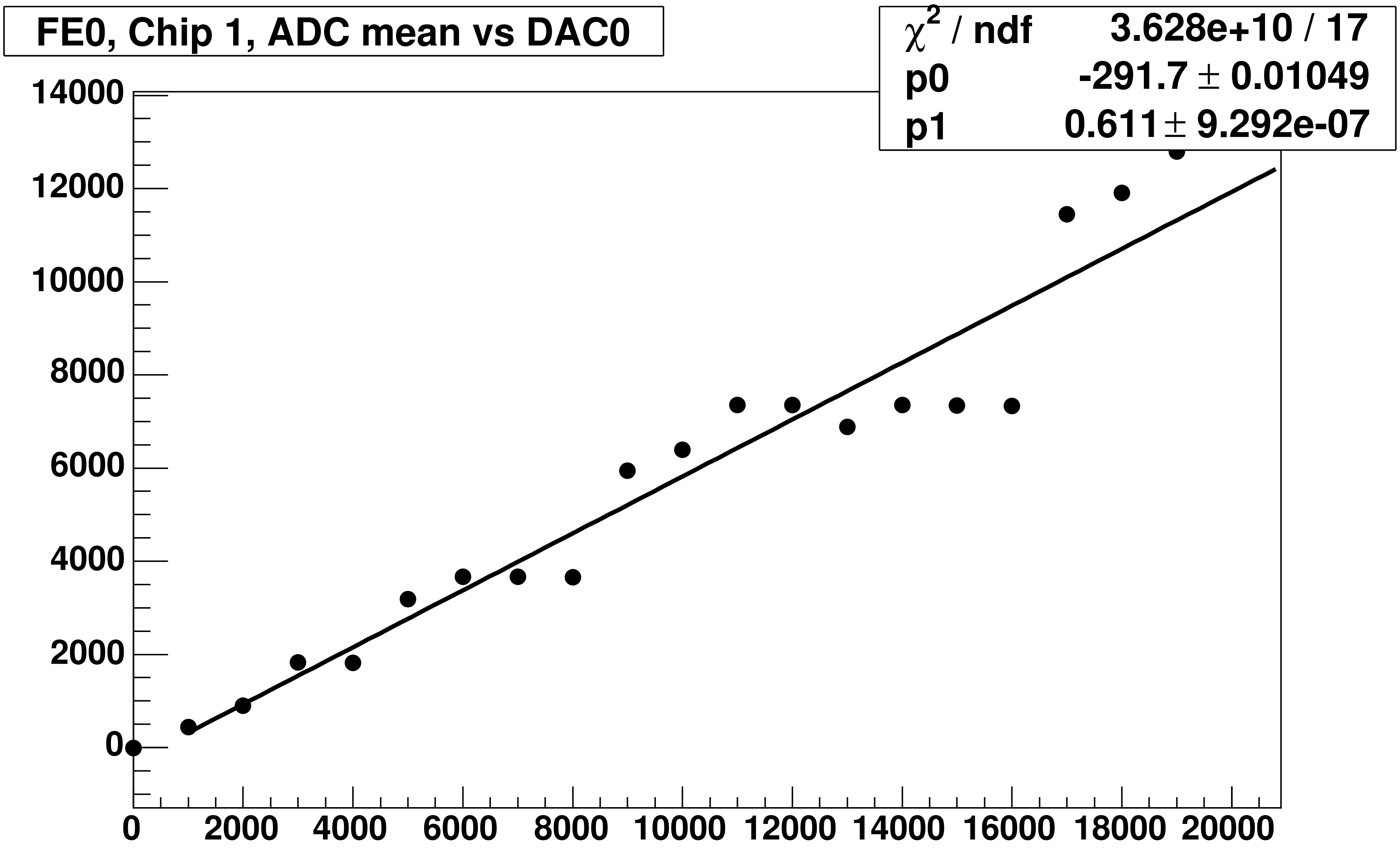

FE0, Chip 0, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

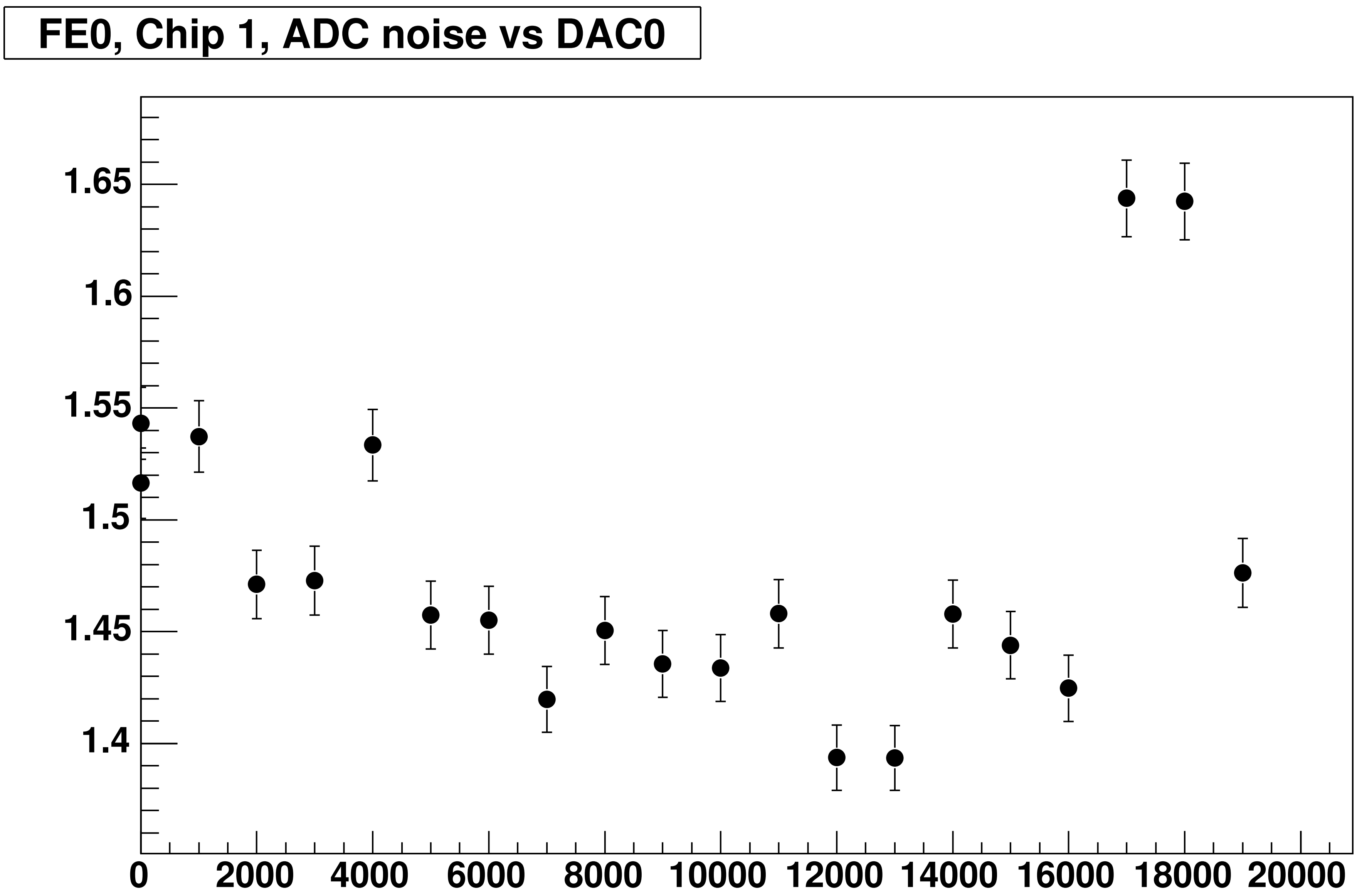


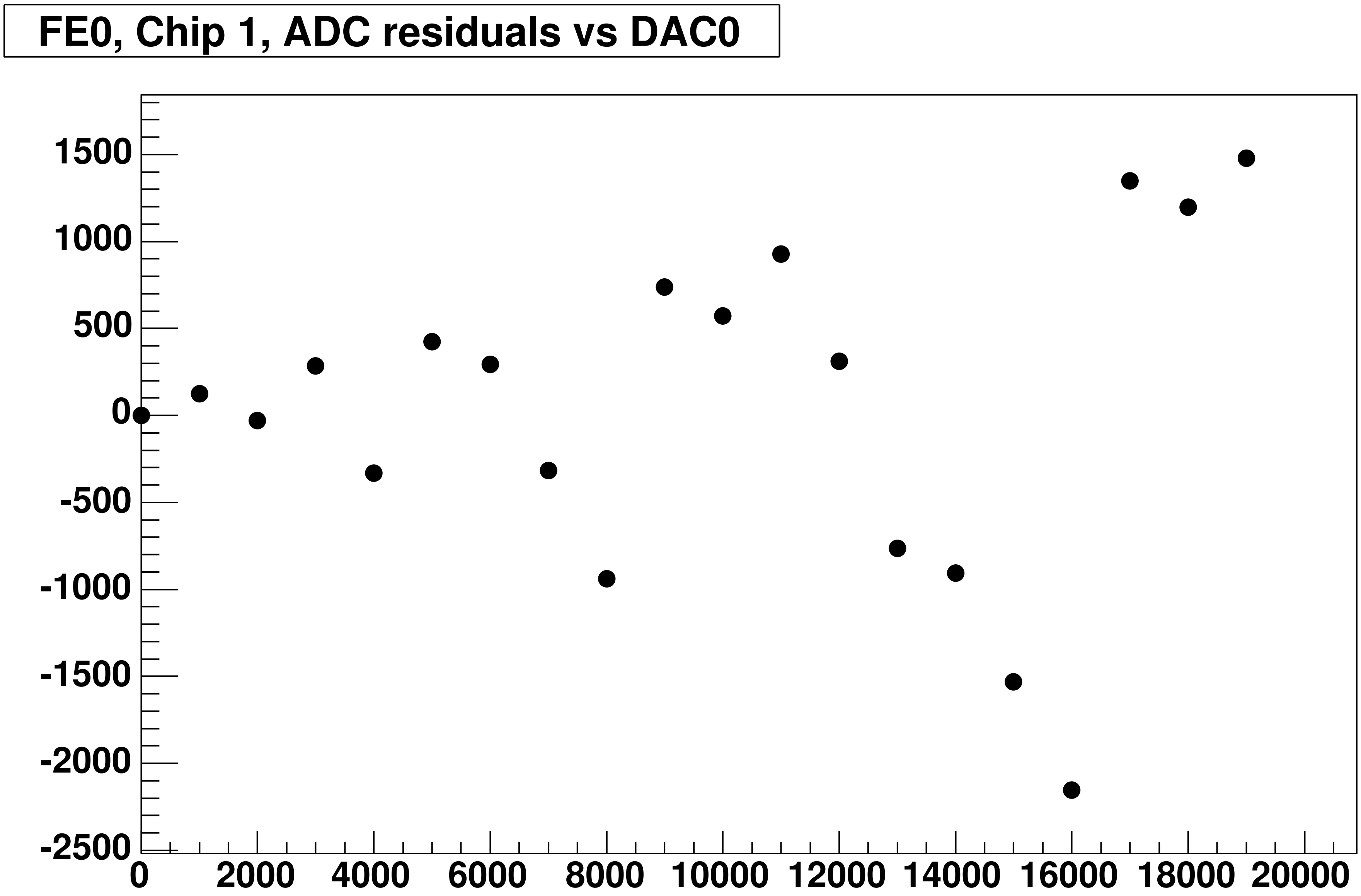
FE0, Chip 0, ADC mean vs DAC1
χ2 / ndf 906.4 / 17
p0 -18.61 ± 0.01539
p1 -9.001e-07 ± 1.353e-06
-18.2
-18.3
-18.4
-18.5
-18.6
-18.7
-18.8
-18.9
-19
0 2000 4000 6000 8000 10000 12000 14000 16000 18000 20000

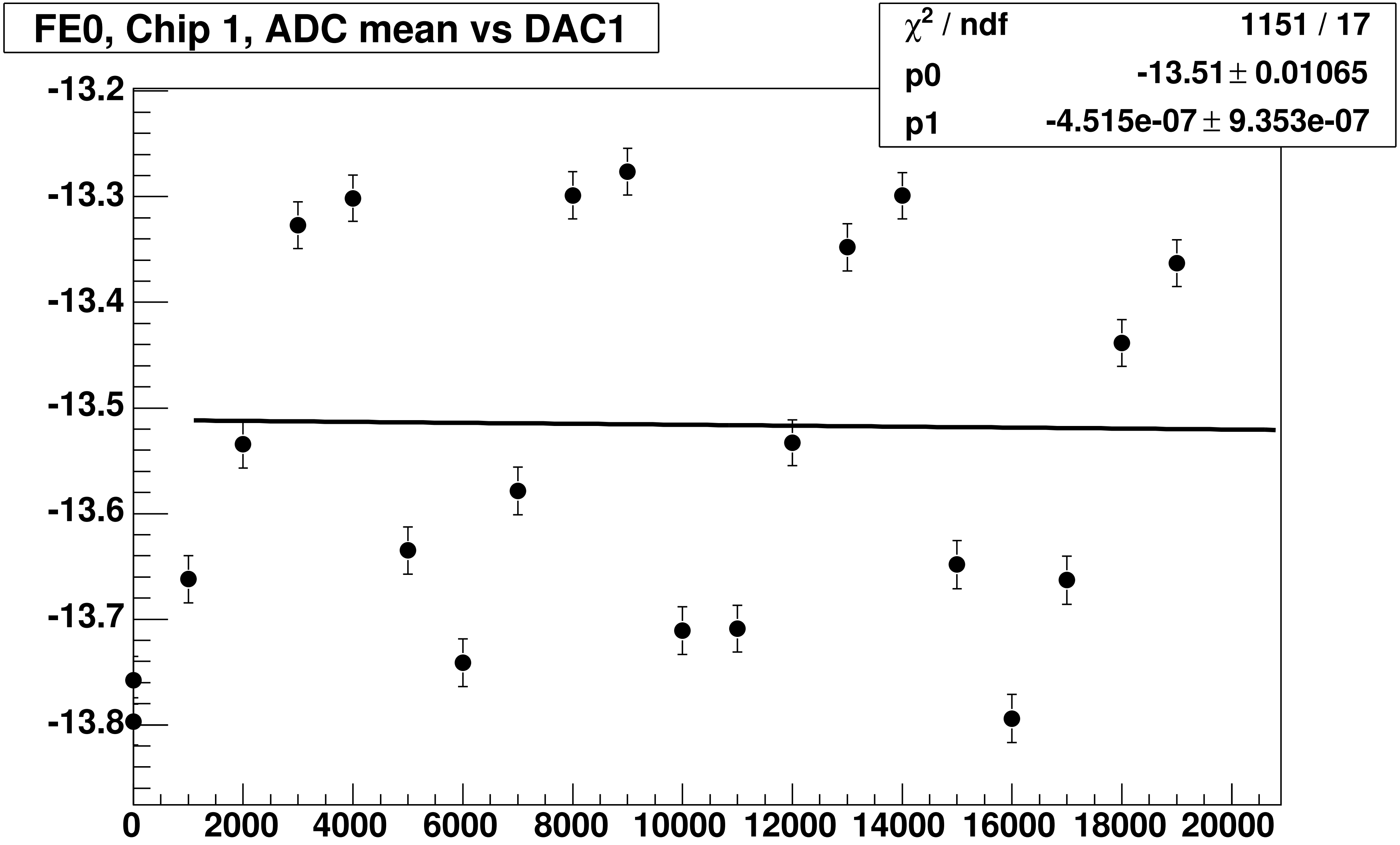

FE0, Chip 0, ADC noise vs DAC1
2.5
2.4
2.3
2.2
2.1
2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE0, Chip 0, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

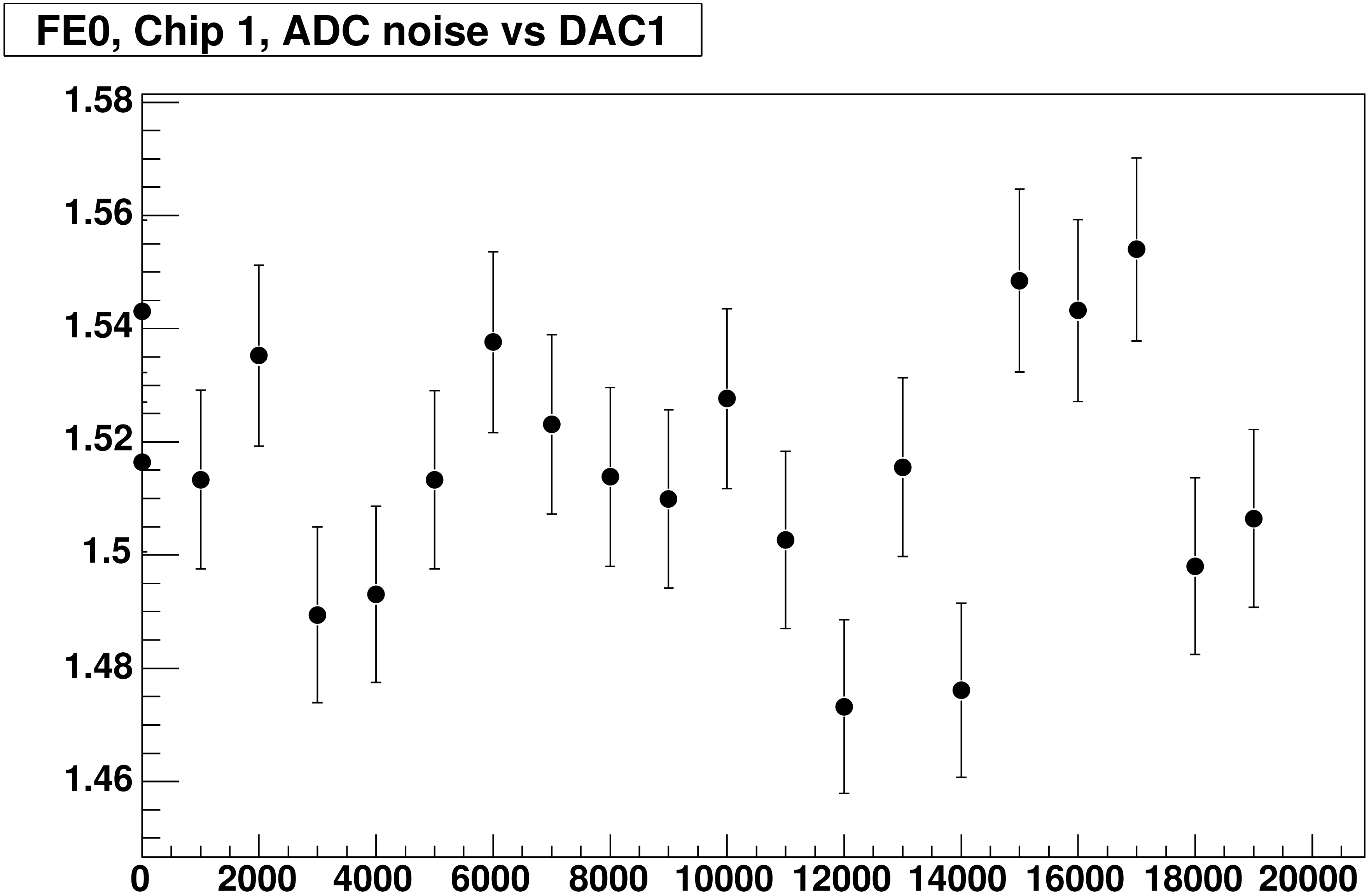

FE0, Chip 1, ADC mean vs DAC0
χ² / ndf 3.628e+10 / 17
p0 -291.7 ± 0.01049
p1 0.611 ± 9.292e-07
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

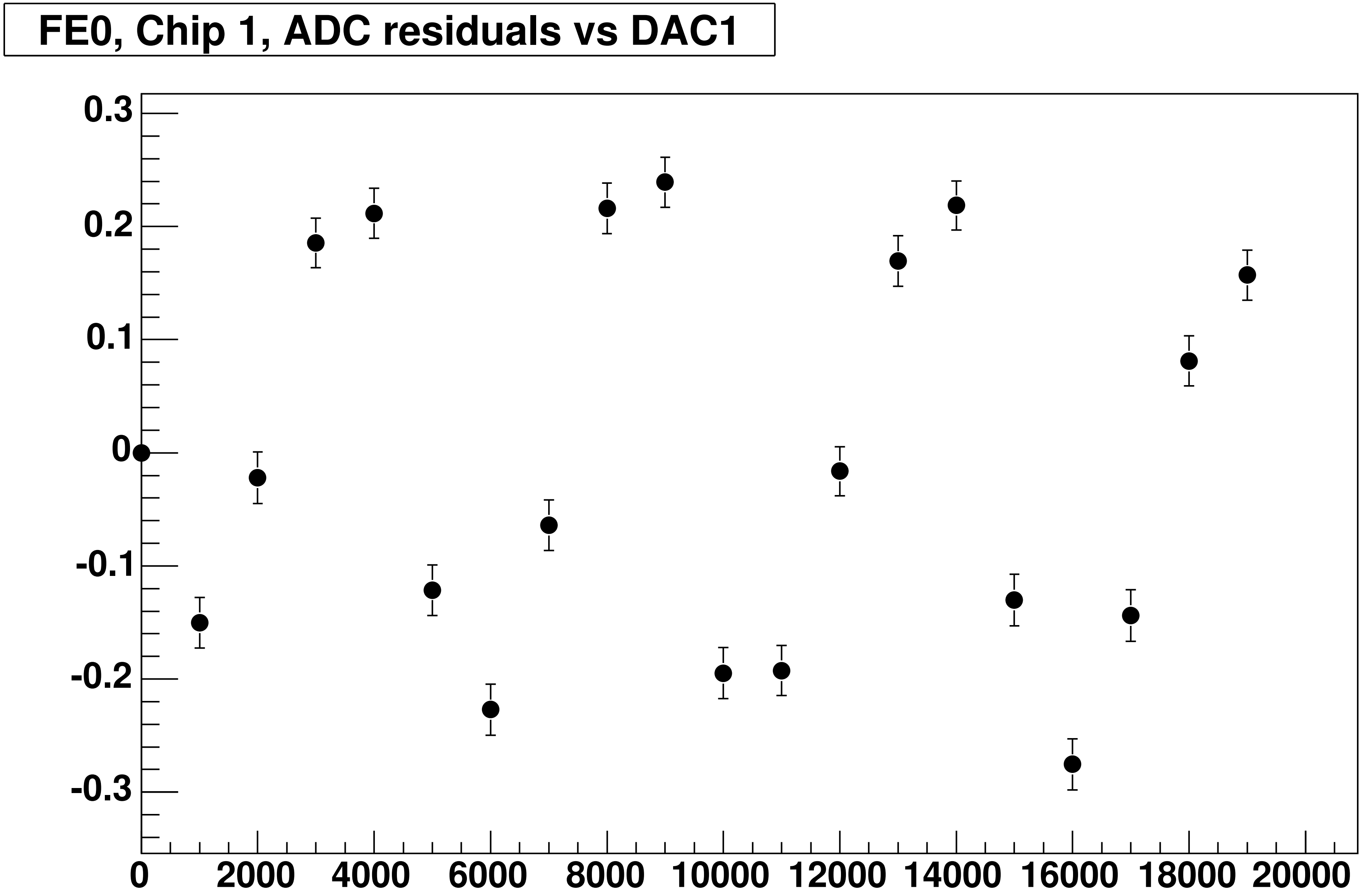

FE0, Chip 1, ADC noise vs DAC0
1.65
1.6
1.55
1.5
1.45
1.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

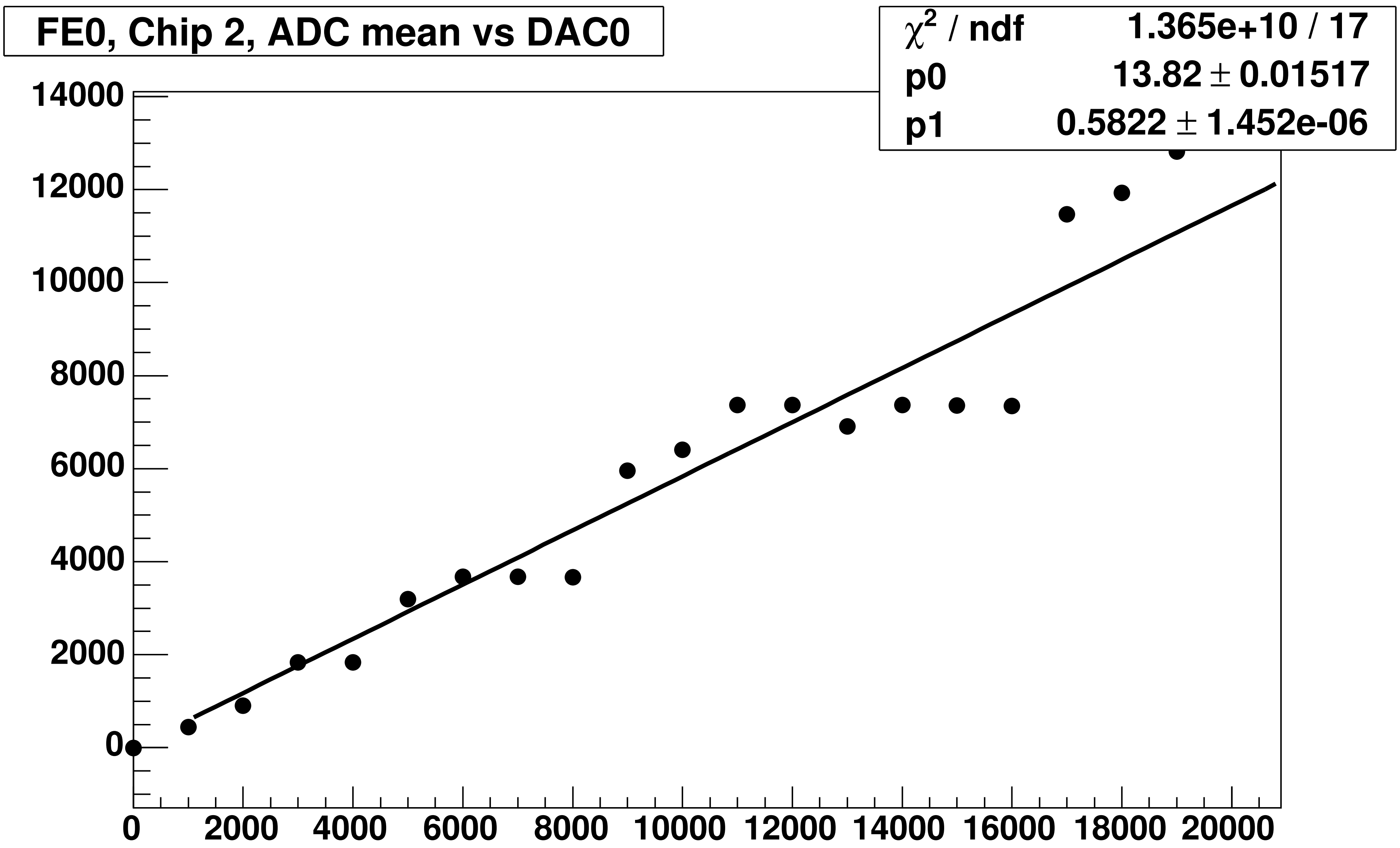

FE0, Chip 1, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

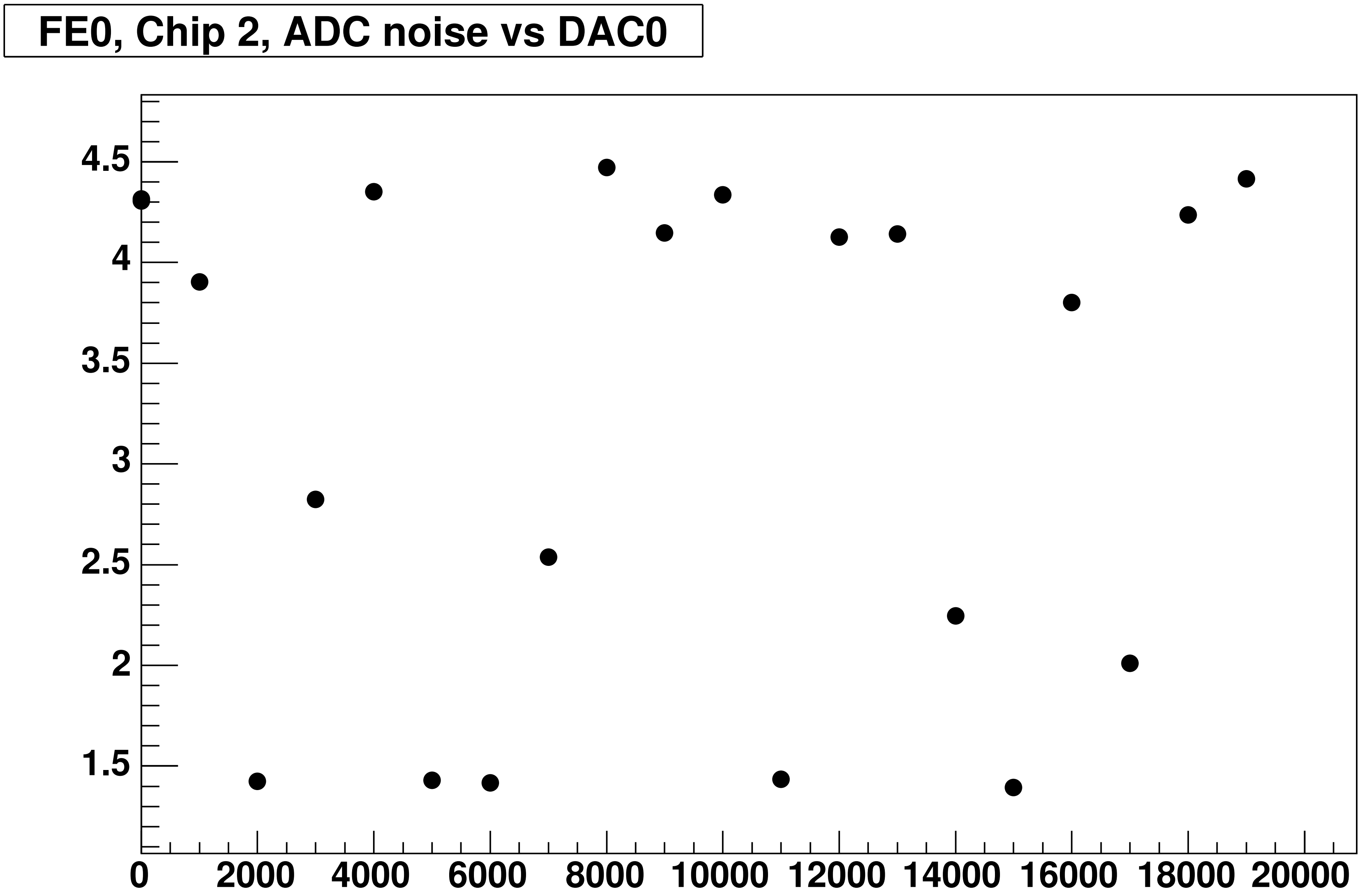


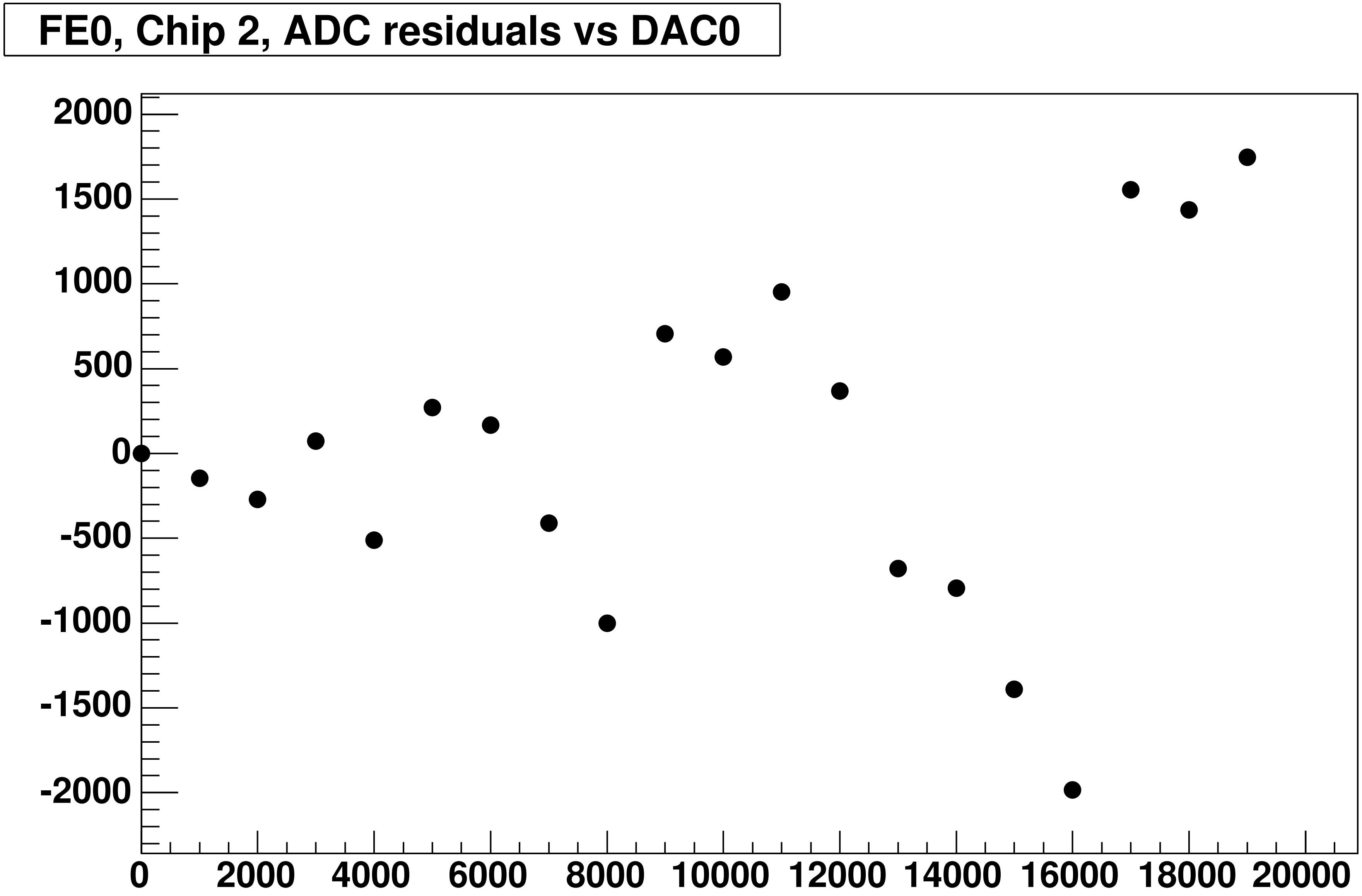
FE0, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 1151 / 17
p0 -13.51 ± 0.01065
p1 -4.515e-07 ± 9.353e-07
-13.2
-13.3
-13.4
-13.5
-13.6
-13.7
-13.8
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

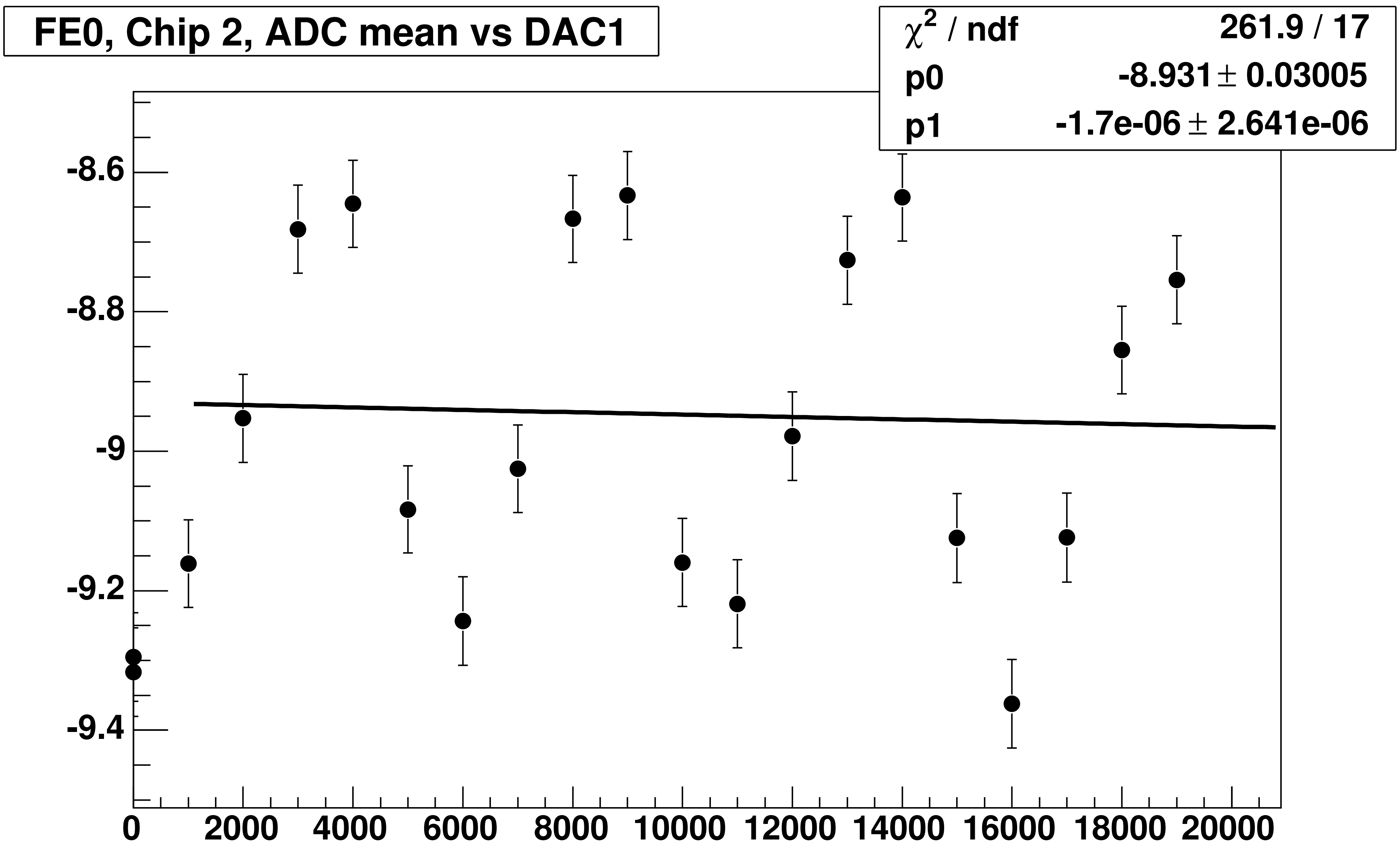

FE0, Chip 1, ADC noise vs DAC1
1.58
1.56
1.54
1.52
1.5
1.48
1.46
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

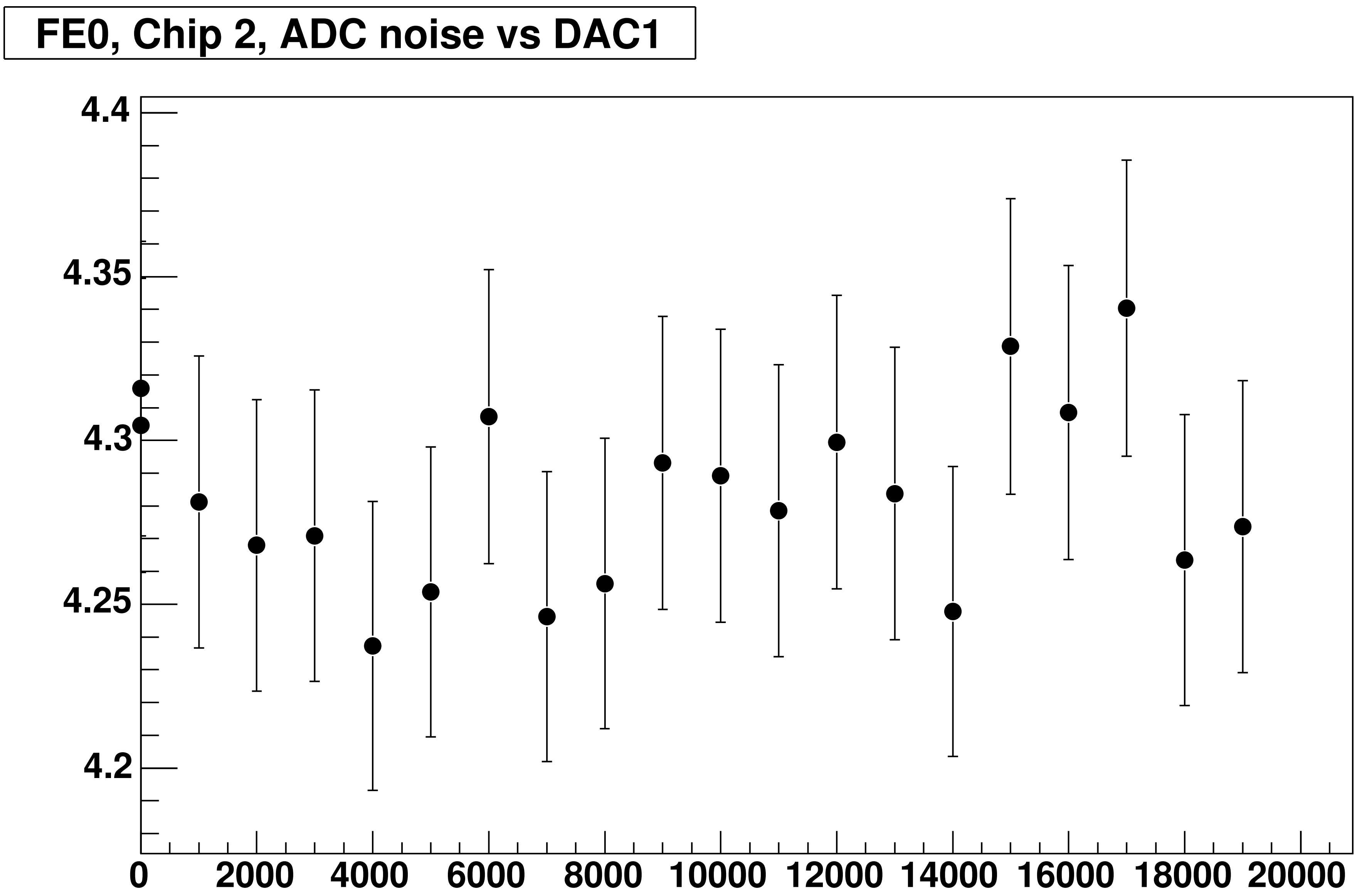

FE0, Chip 1, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE0, Chip 2, ADC mean vs DAC0
χ2 / ndf 1.365e+10 / 17
p0 13.82 ± 0.01517
p1 0.5822 ± 1.452e-06
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

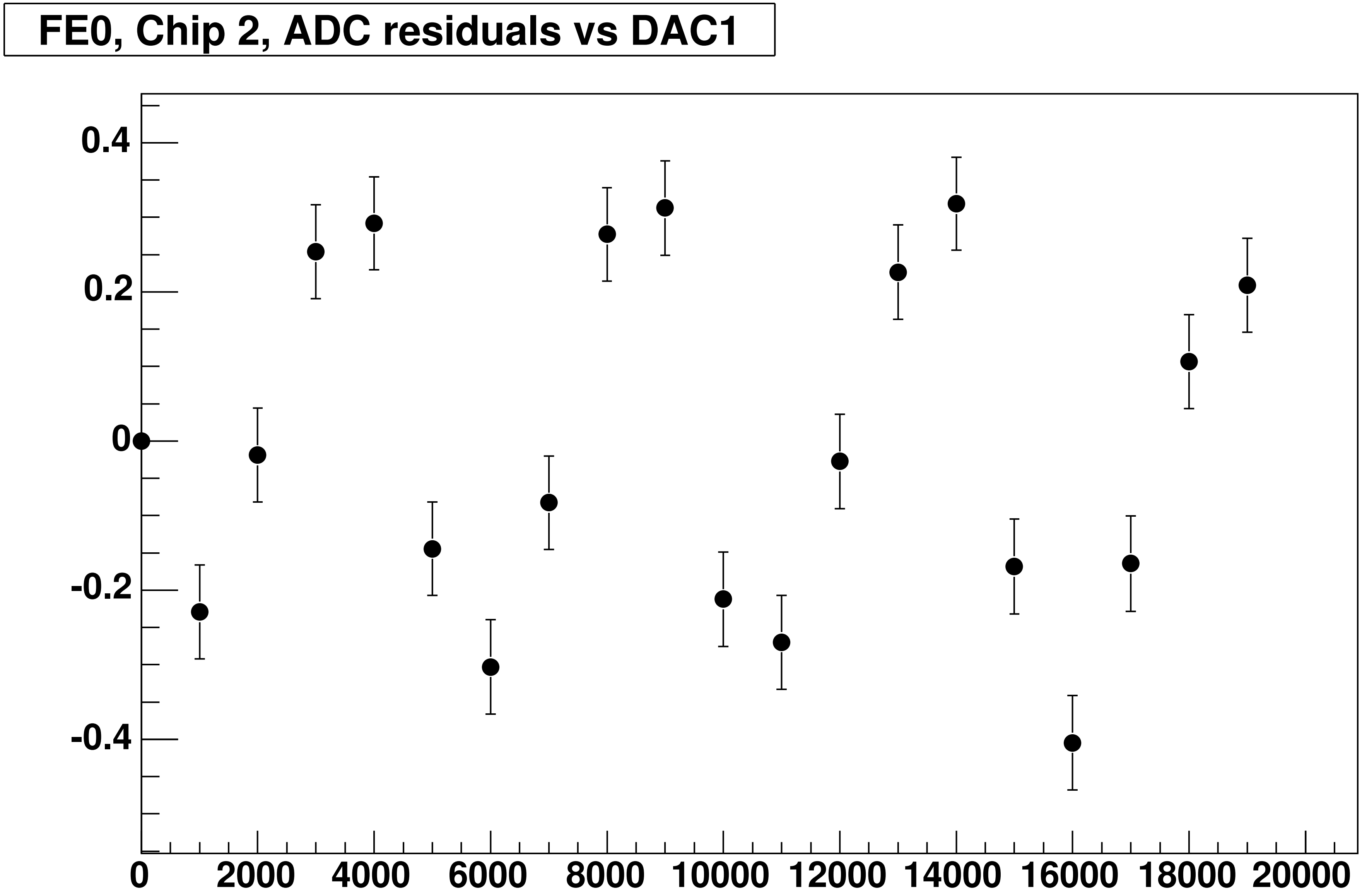

FE0, Chip 2, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE0, Chip 2, ADC residuals vs DAC0
2000
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

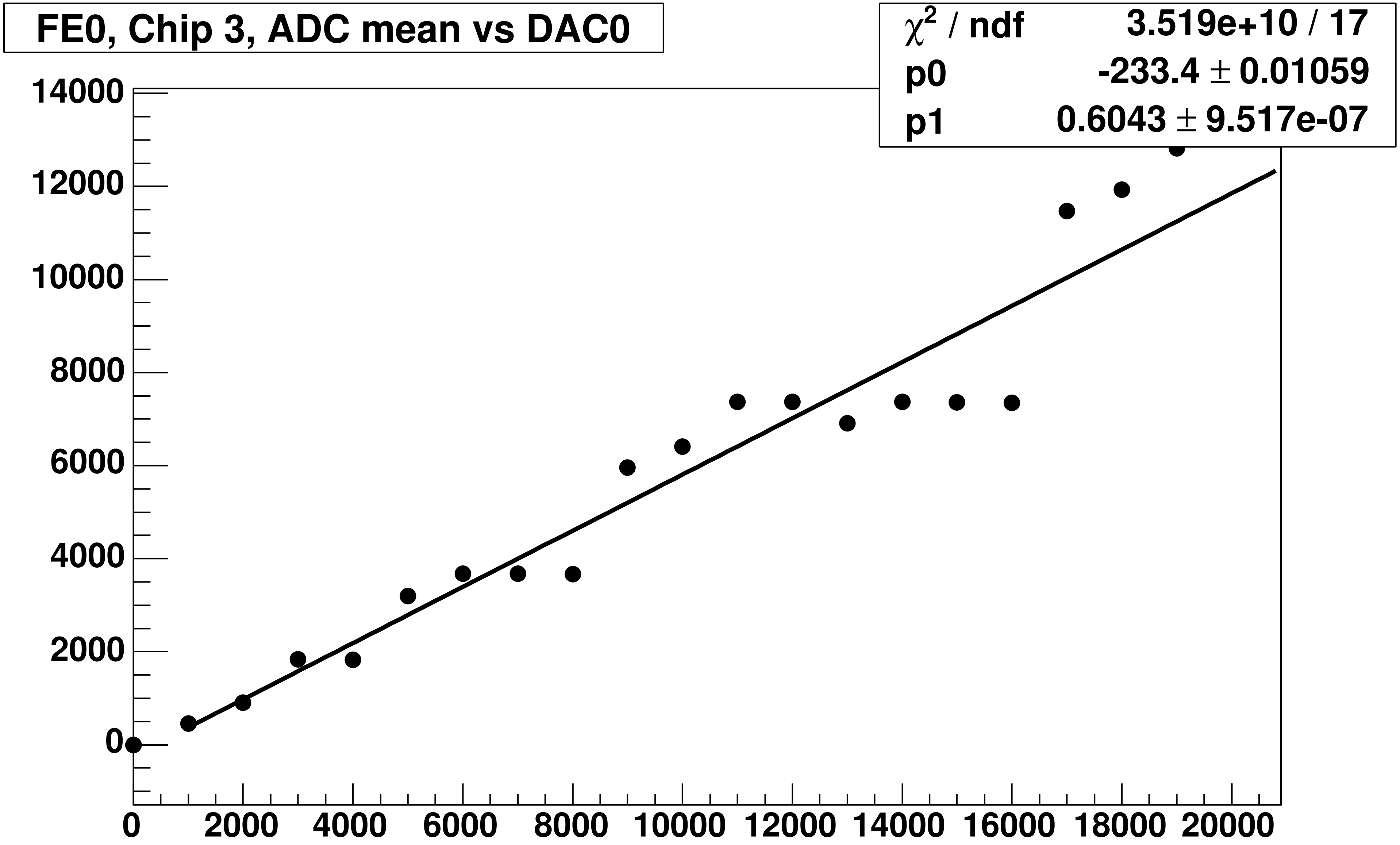

FE0, Chip 2, ADC mean vs DAC1
χ2 / ndf 261.9 / 17
p0 -8.931 ± 0.03005
p1 -1.7e-06 ± 2.641e-06
-8.6
-8.8
-9
-9.2
-9.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



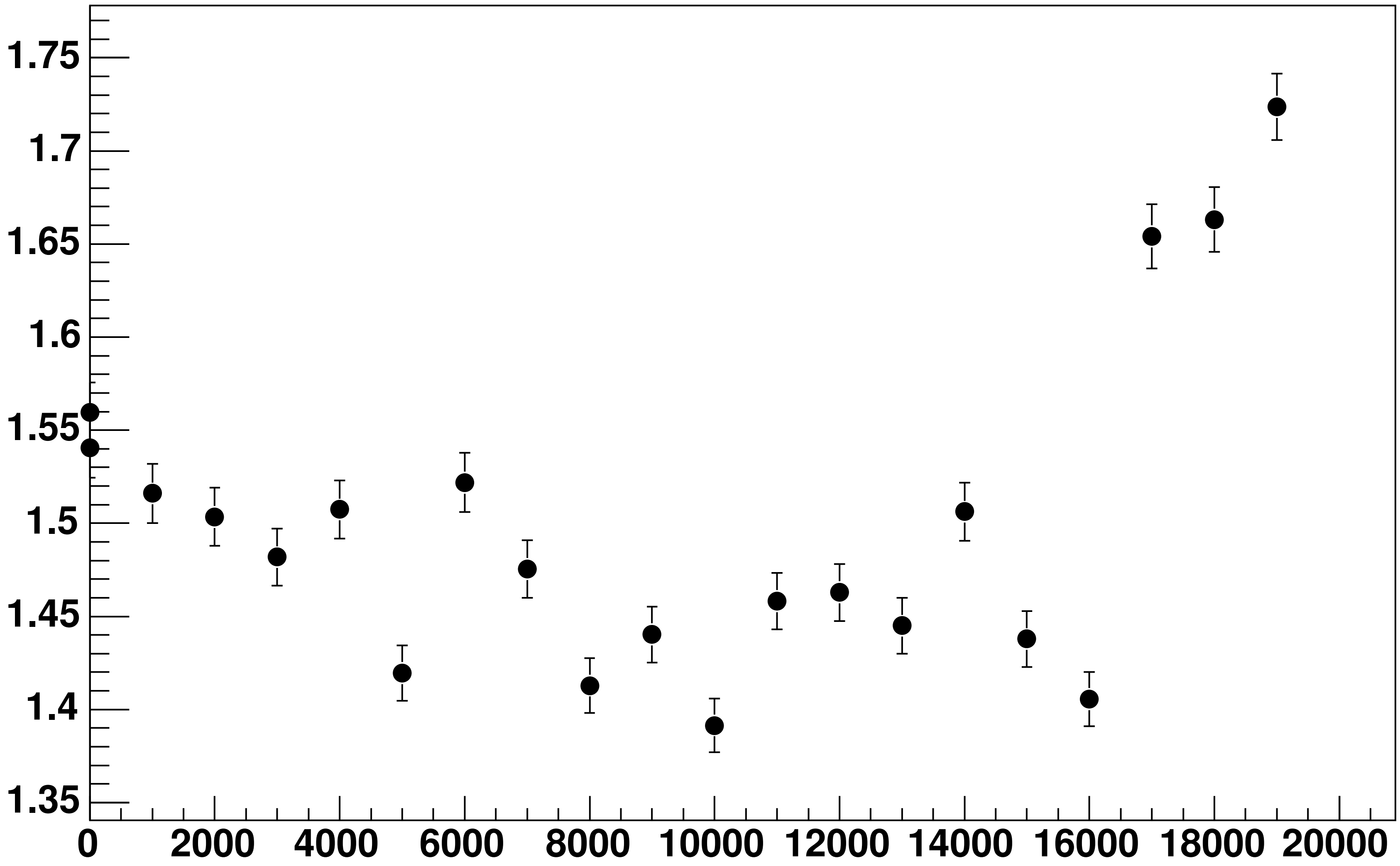
FE0, Chip 2, ADC noise vs DAC1
4.4
4.35
4.3
4.25
4.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

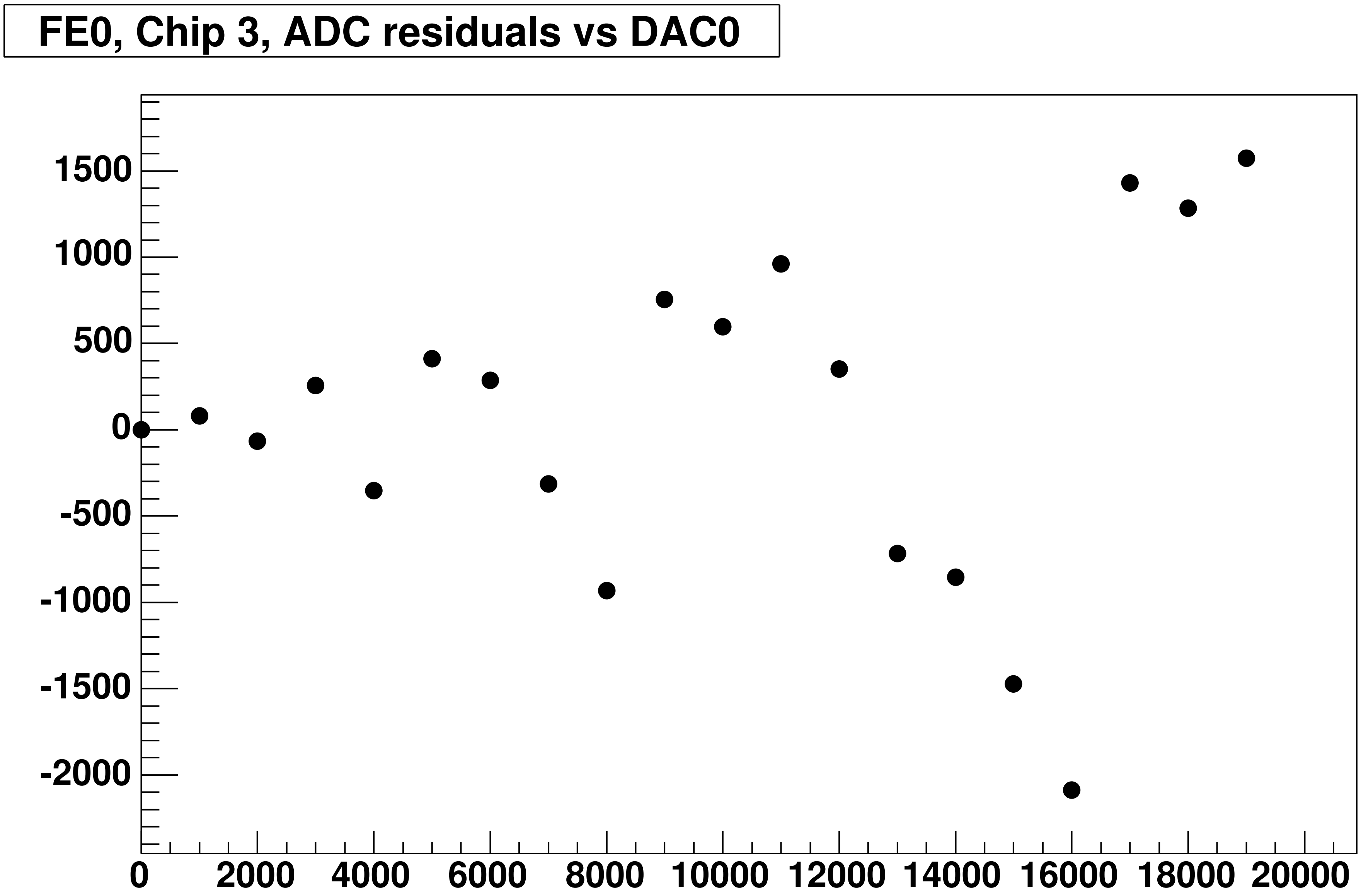


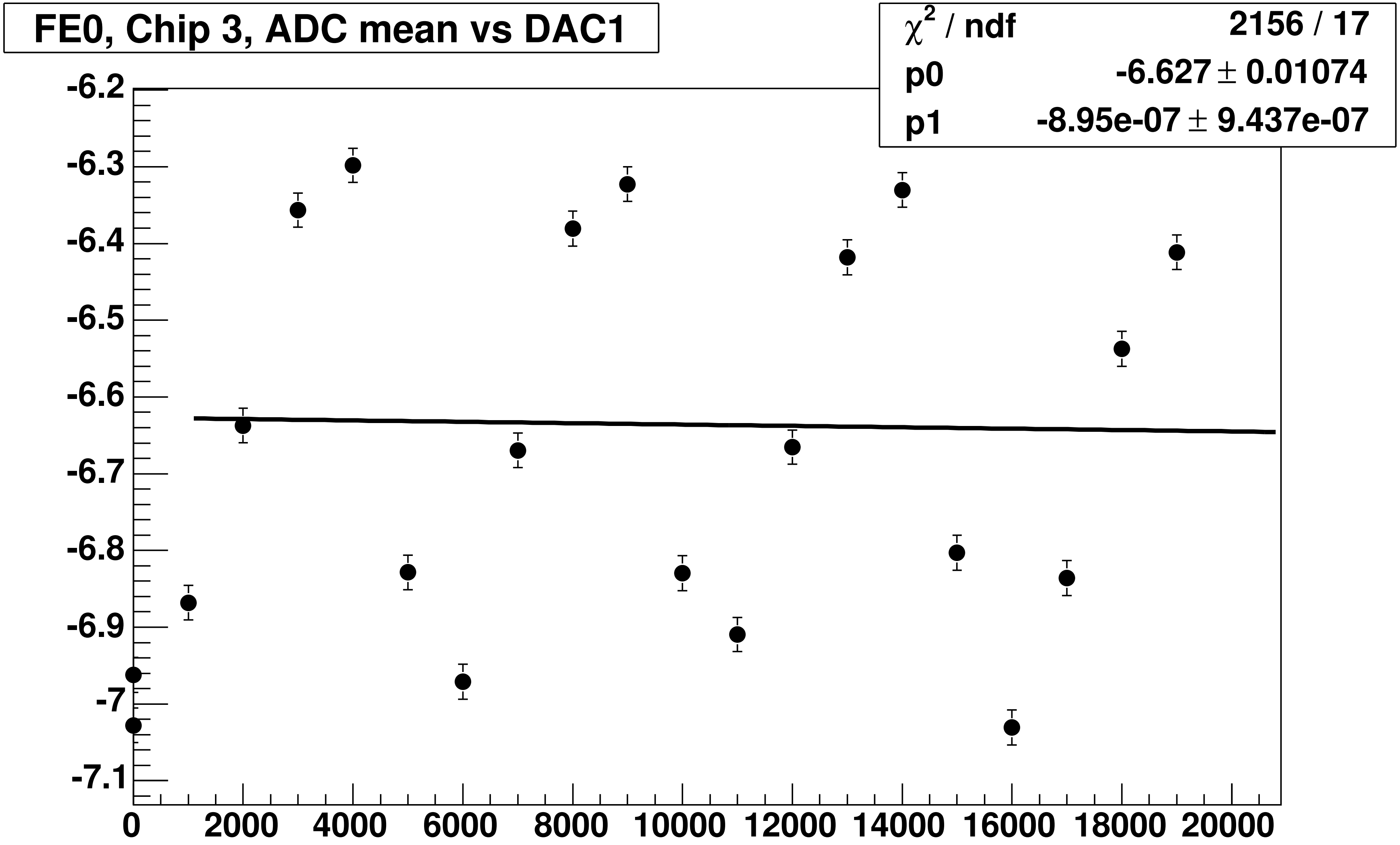
FE0, Chip 2, ADC residuals vs DAC1
0.4
0.2
0
-0.2
-0.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

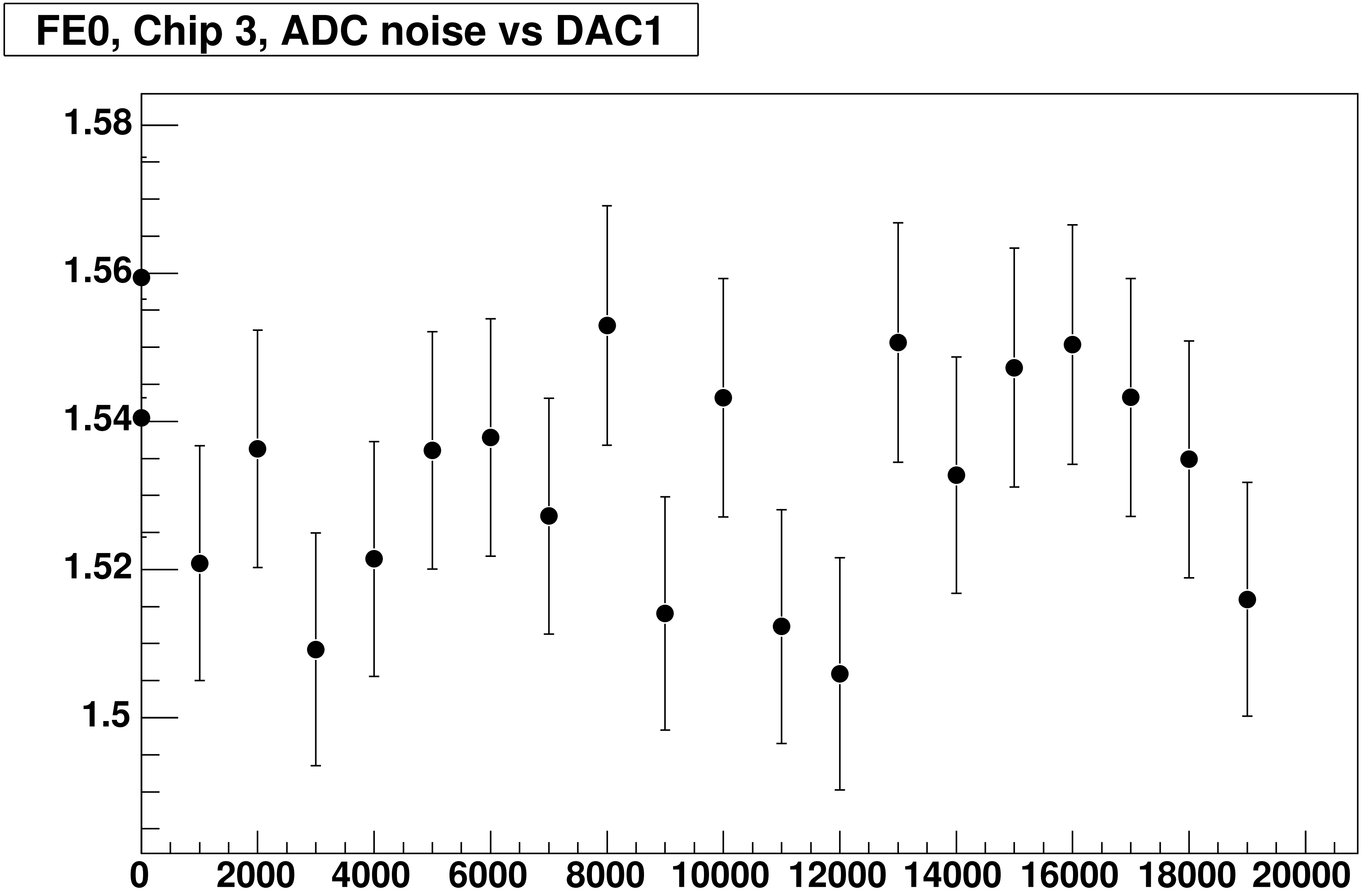

FE0, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 3.519e+10 / 17
p0 -233.4 ± 0.01059
p1 0.6043 ± 9.517e-07
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

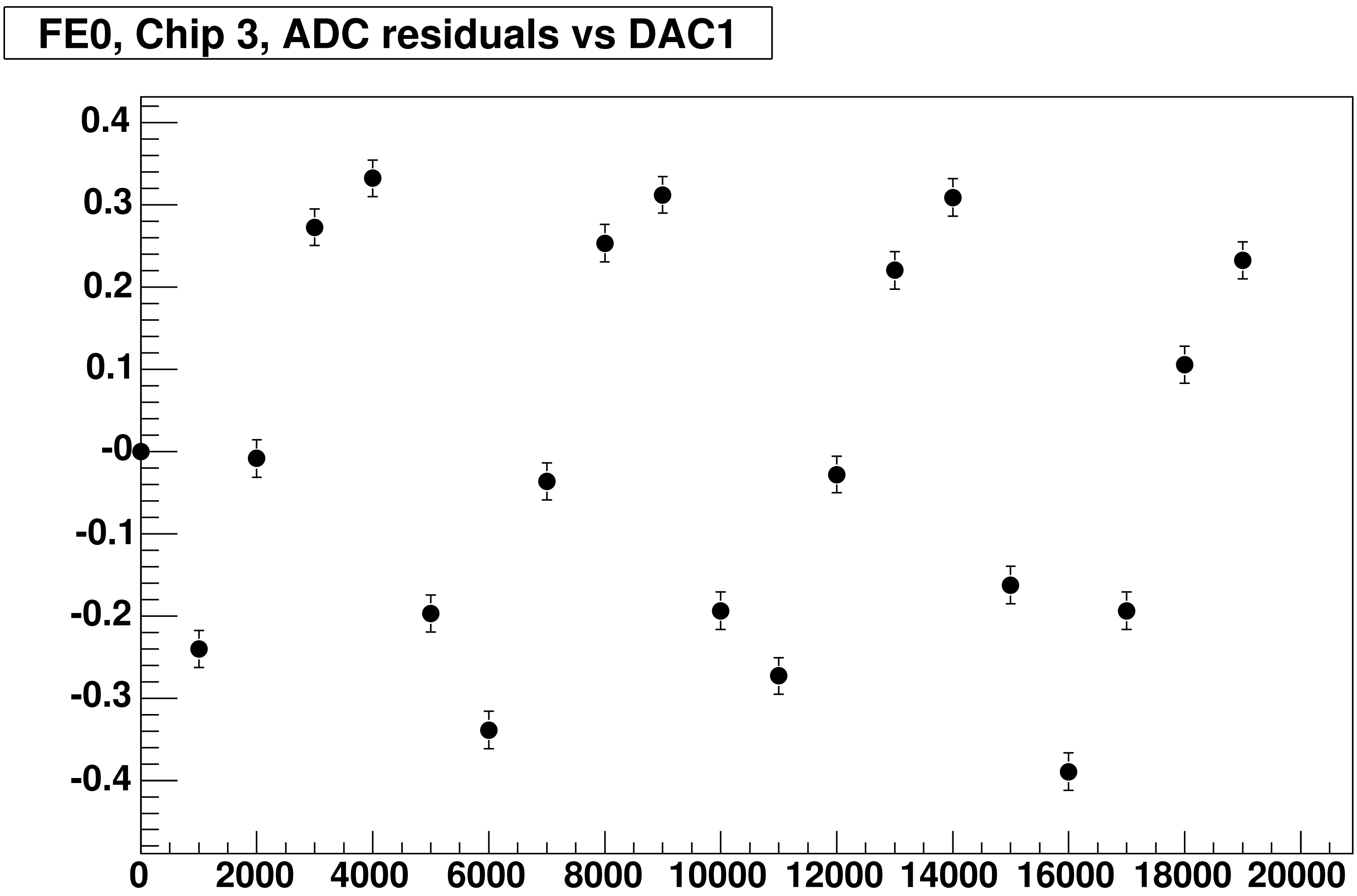
FE0, Chip 3, ADC noise vs DAC0

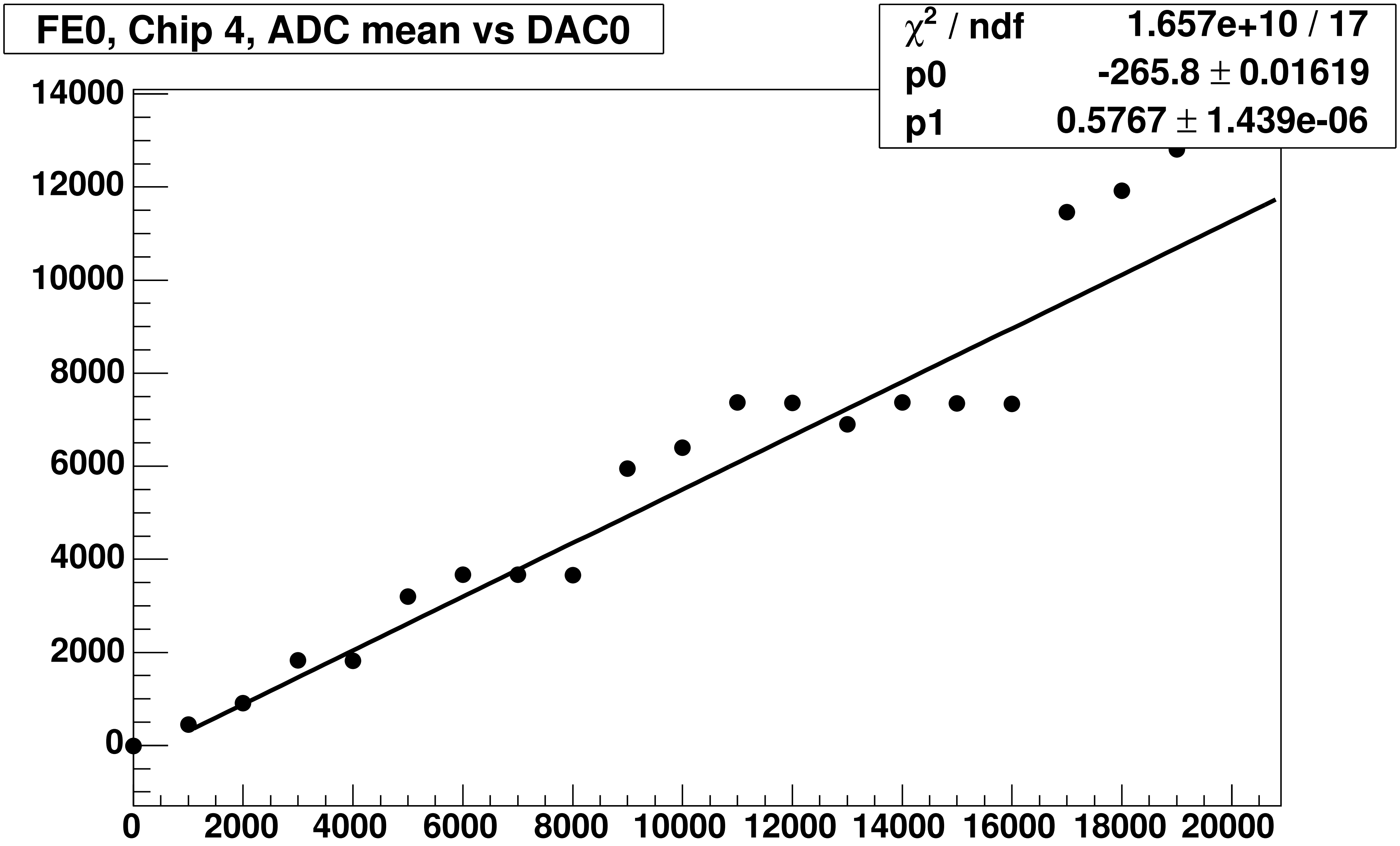


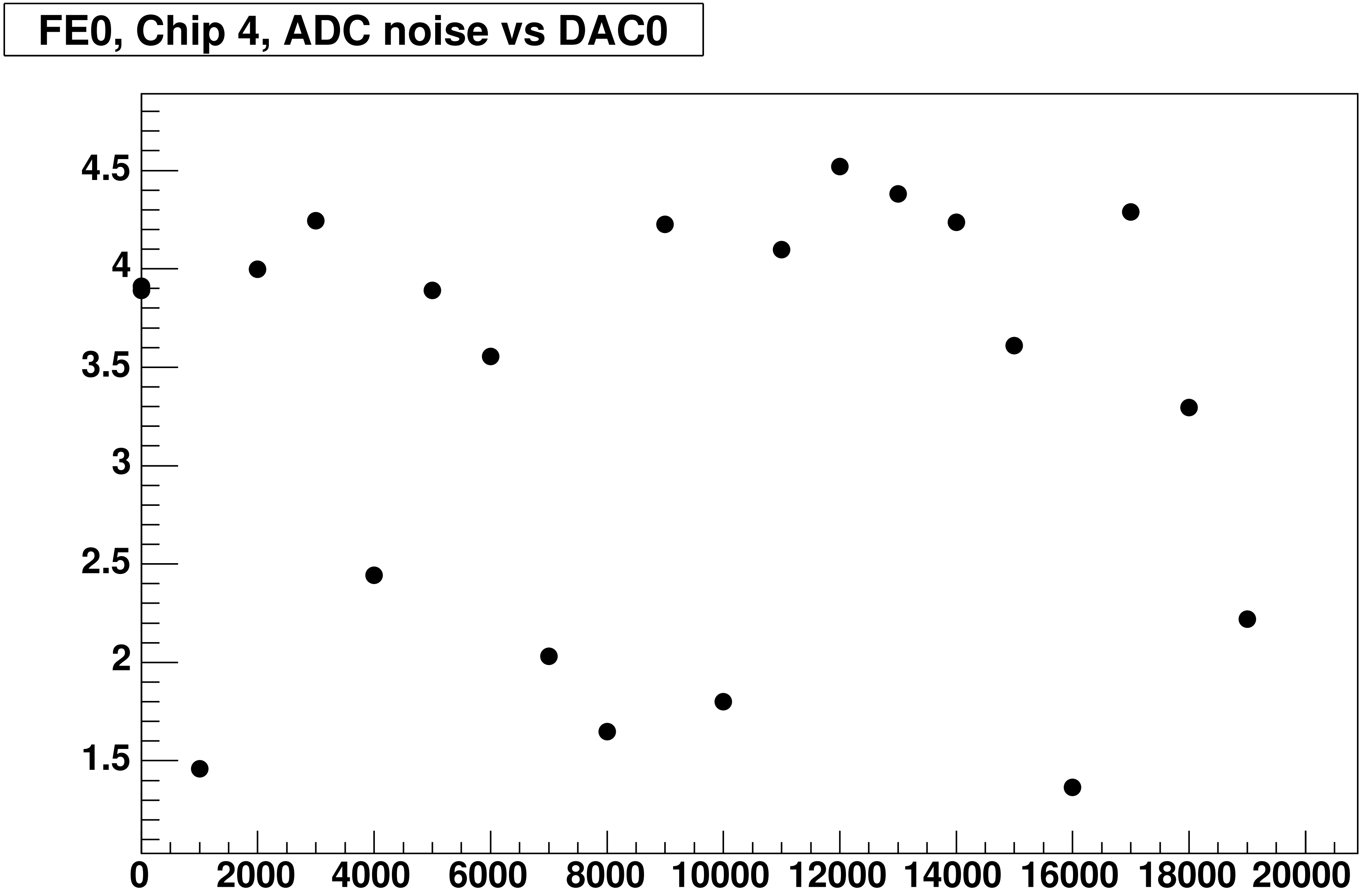

FE0, Chip 3, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

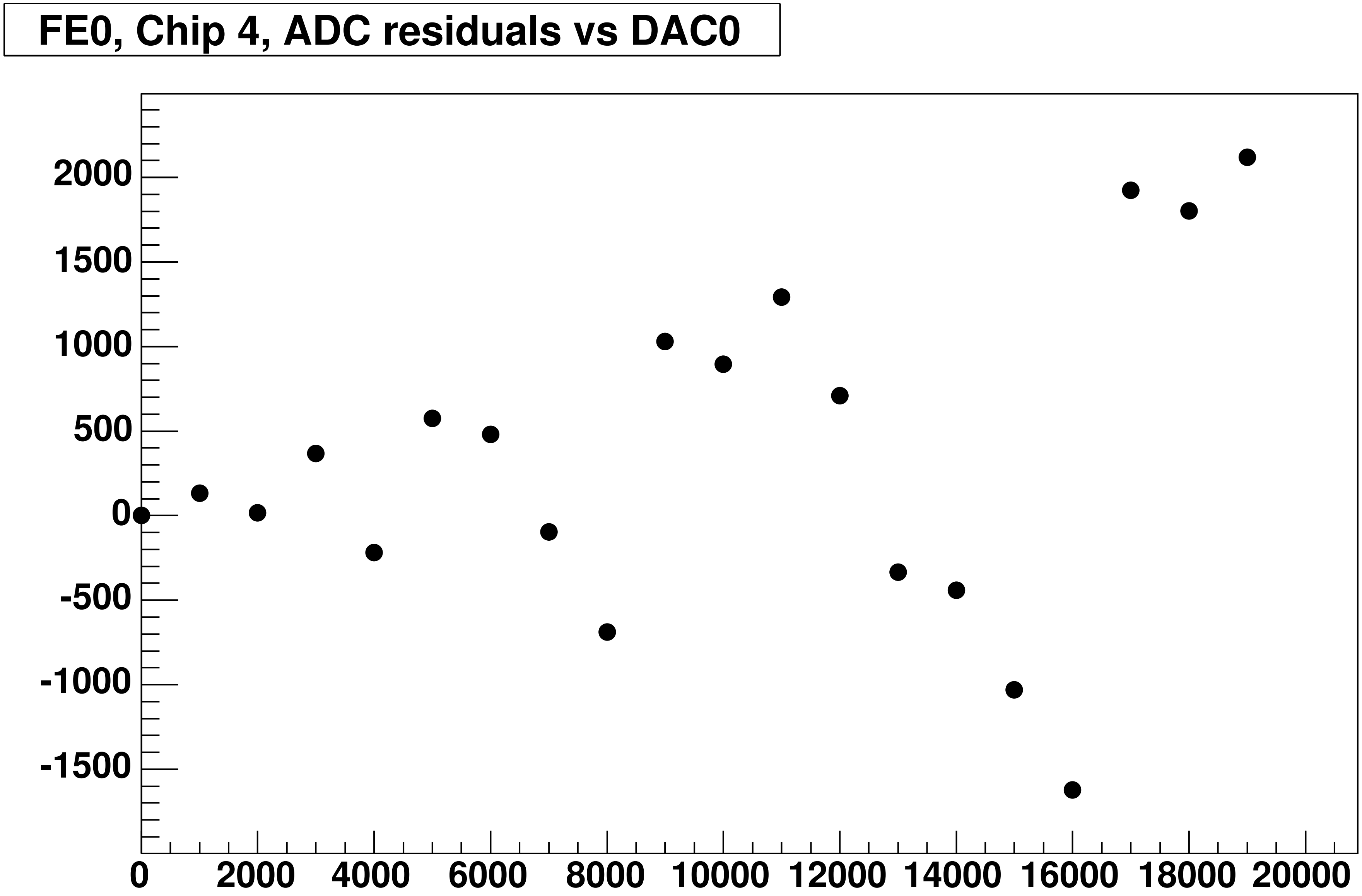

FE0, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 2156 / 17
p0 -6.627 ± 0.01074
p1 -8.95e-07 ± 9.437e-07
-6.2
-6.3
-6.4
-6.5
-6.6
-6.7
-6.8
-6.9
-7
-7.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

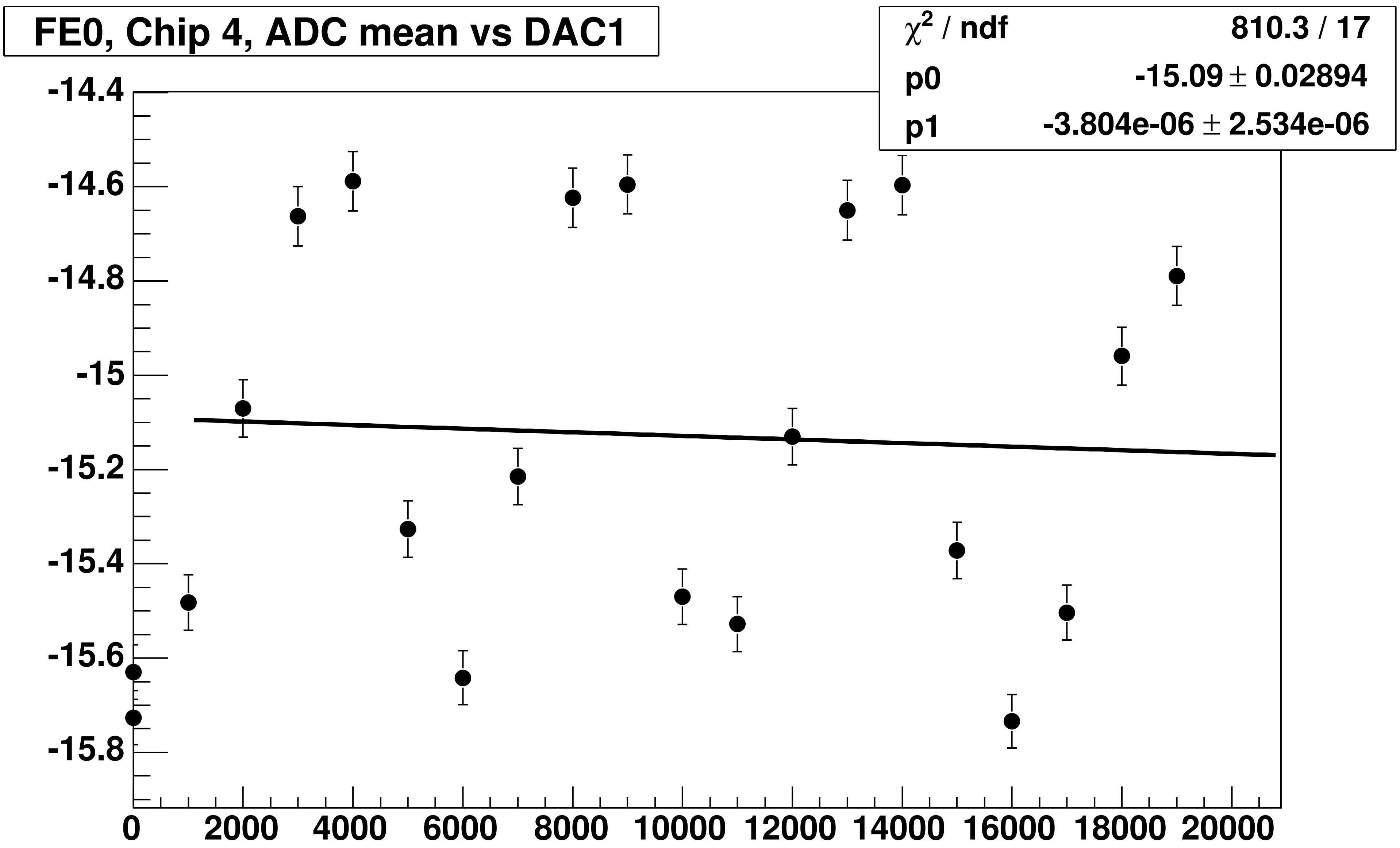

FE0, Chip 3, ADC noise vs DAC1
1.58
1.56
1.54
1.52
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

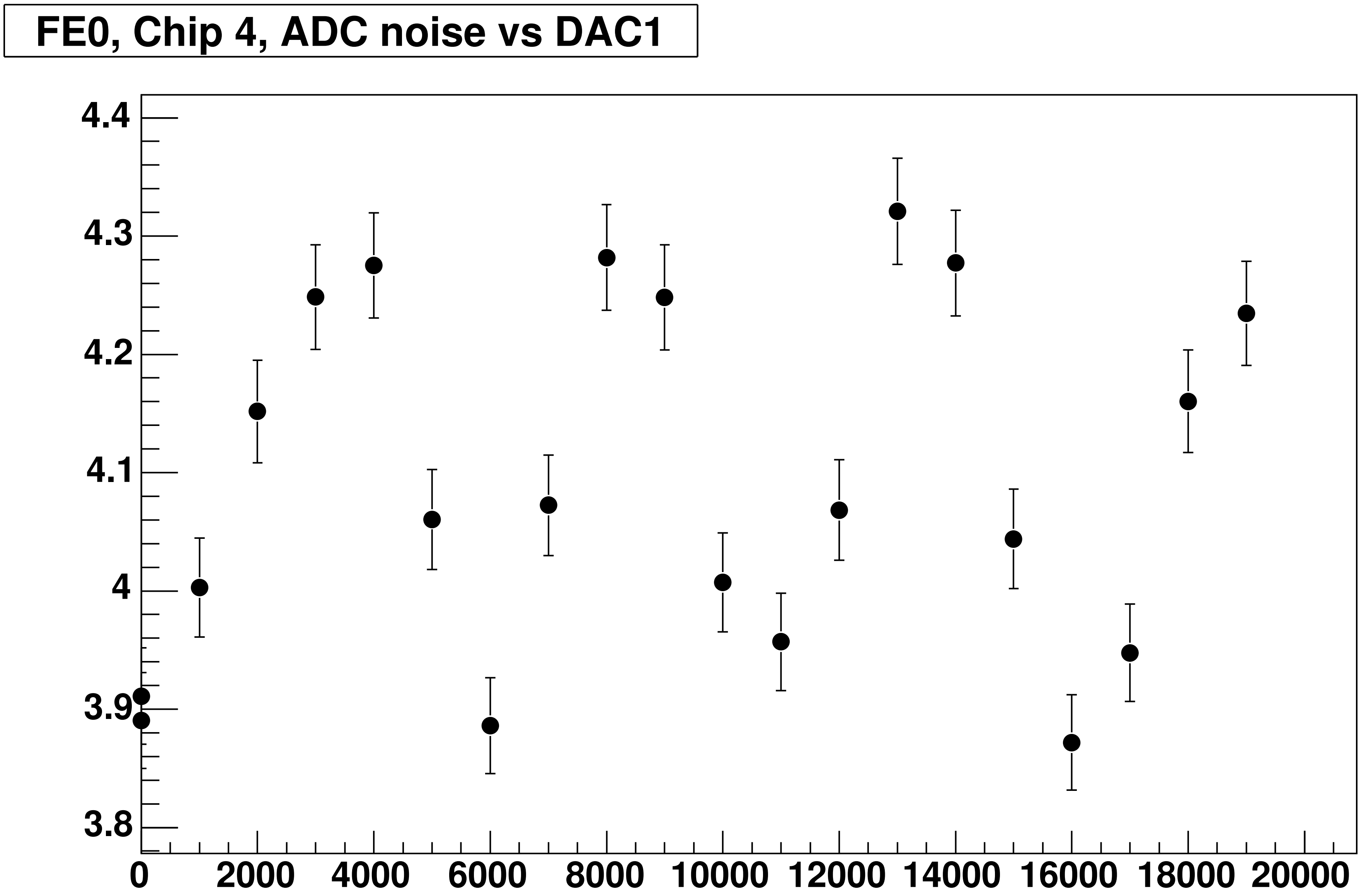

FE0, Chip 3, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

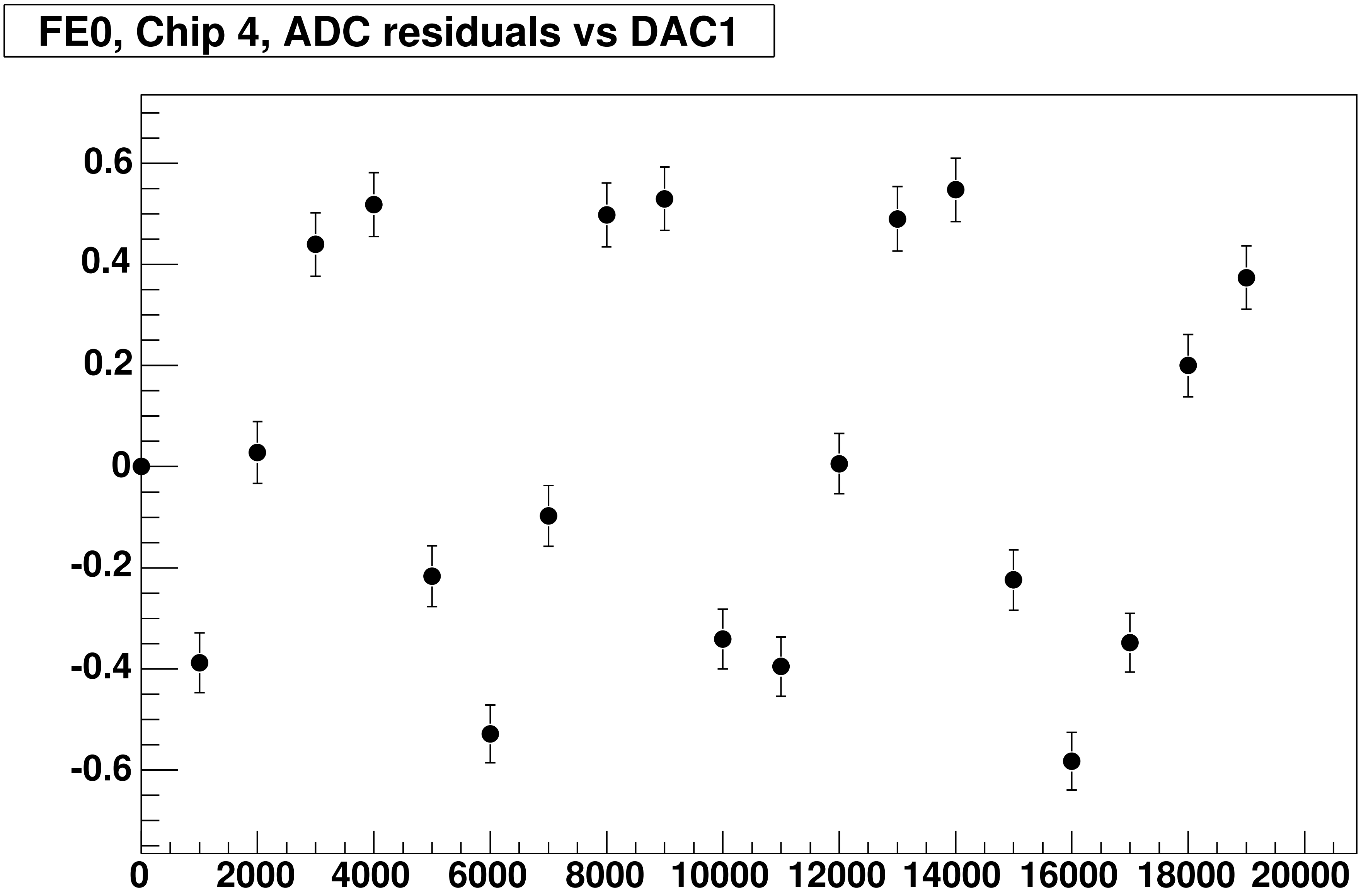

FE0, Chip 4, ADC mean vs DAC0
$\chi^2$ / ndf 1.657e+10 / 17
p0 -265.8 ± 0.01619
p1 0.5767 ± 1.439e-06
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

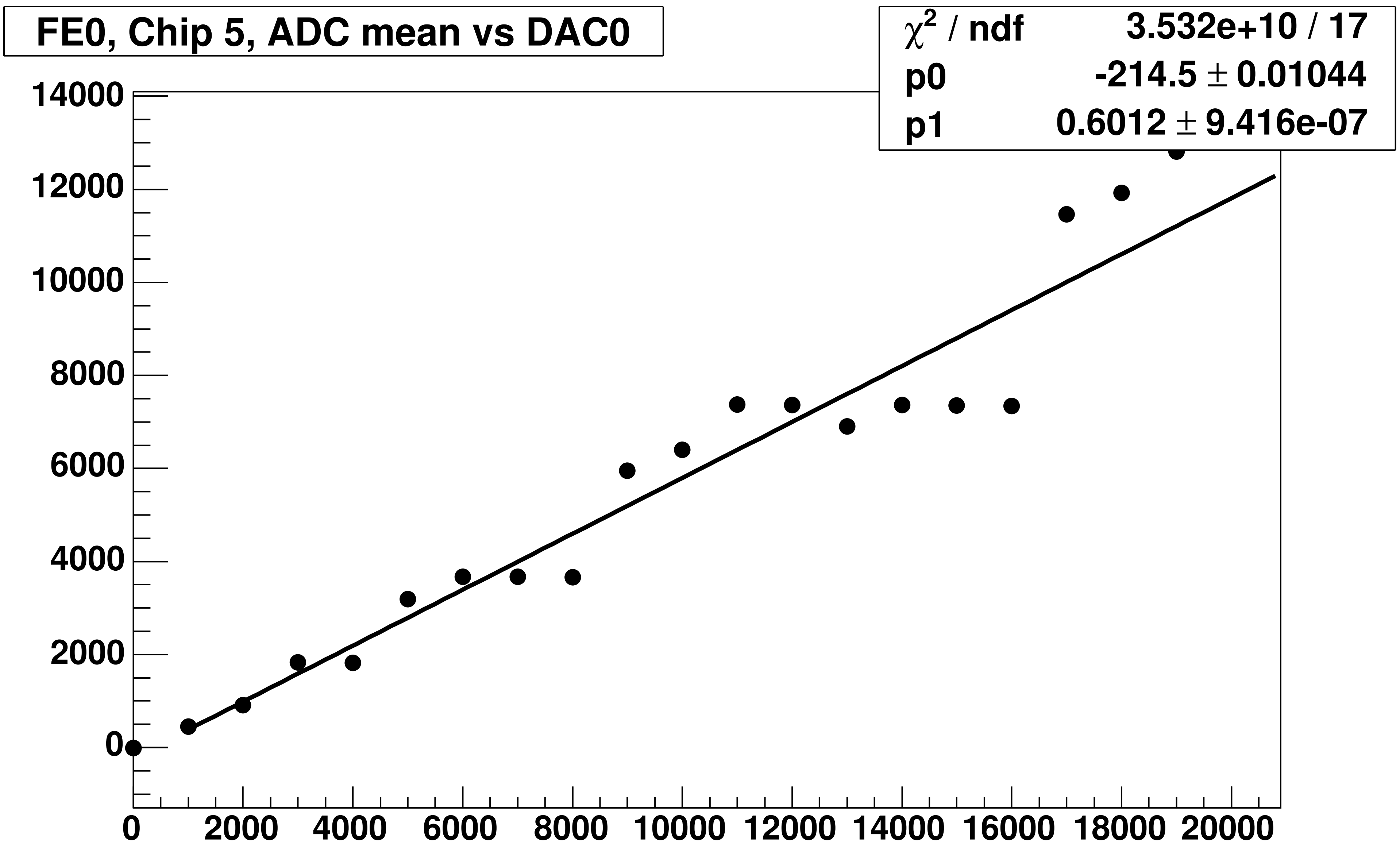

FE0, Chip 4, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE0, Chip 4, ADC residuals vs DAC0
2000
1500
1000
500
0
-500
-1000
-1500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

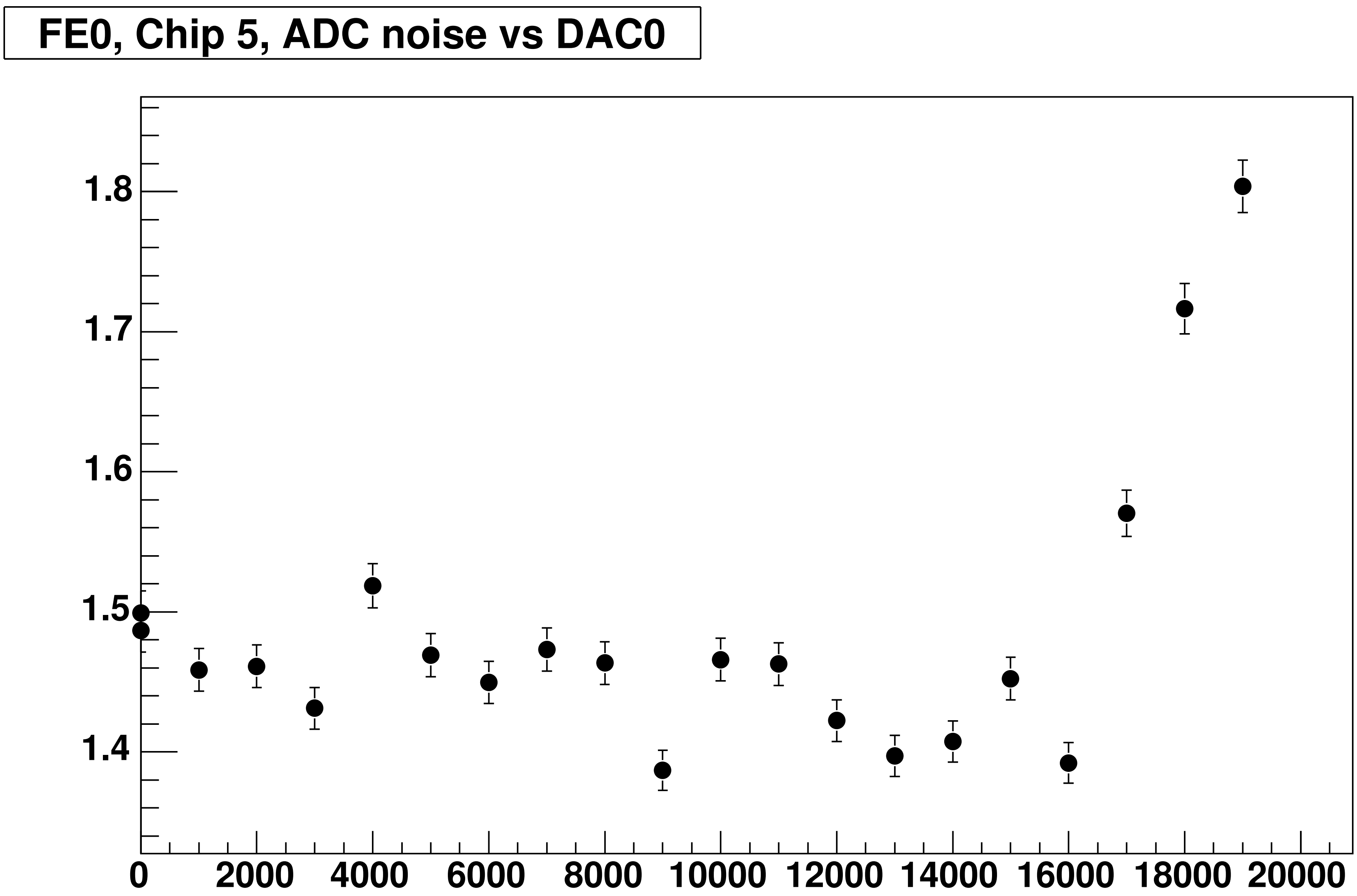

FE0, Chip 4, ADC mean vs DAC1
χ² / ndf 810.3 / 17
p0 -15.09 ± 0.02894
p1 -3.804e-06 ± 2.534e-06
-14.4
-14.6
-14.8
-15
-15.2
-15.4
-15.6
-15.8
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE0, Chip 4, ADC noise vs DAC1
4.4
4.3
4.2
4.1
4
3.9
3.8
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

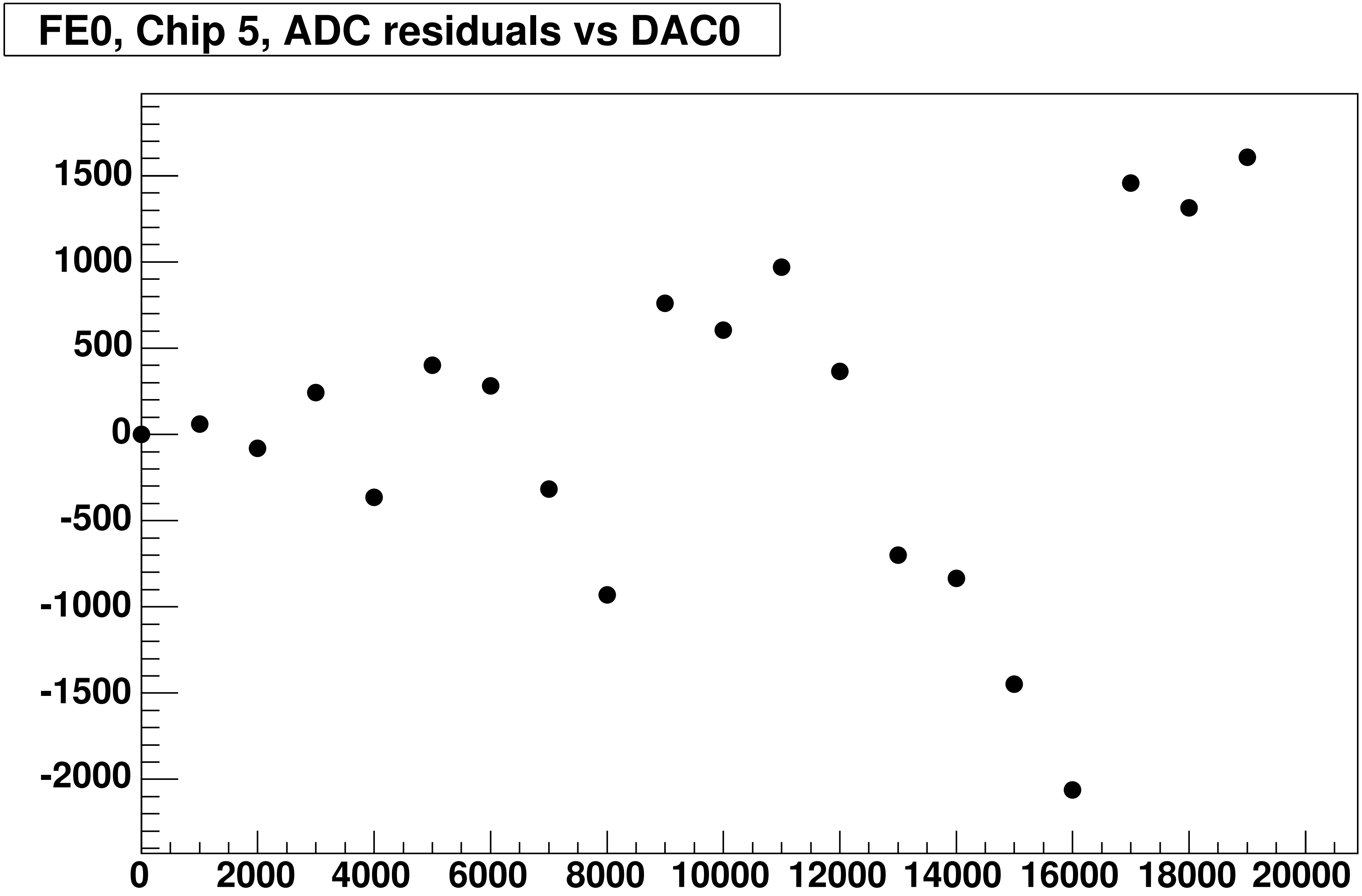

FE0, Chip 4, ADC residuals vs DAC1
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

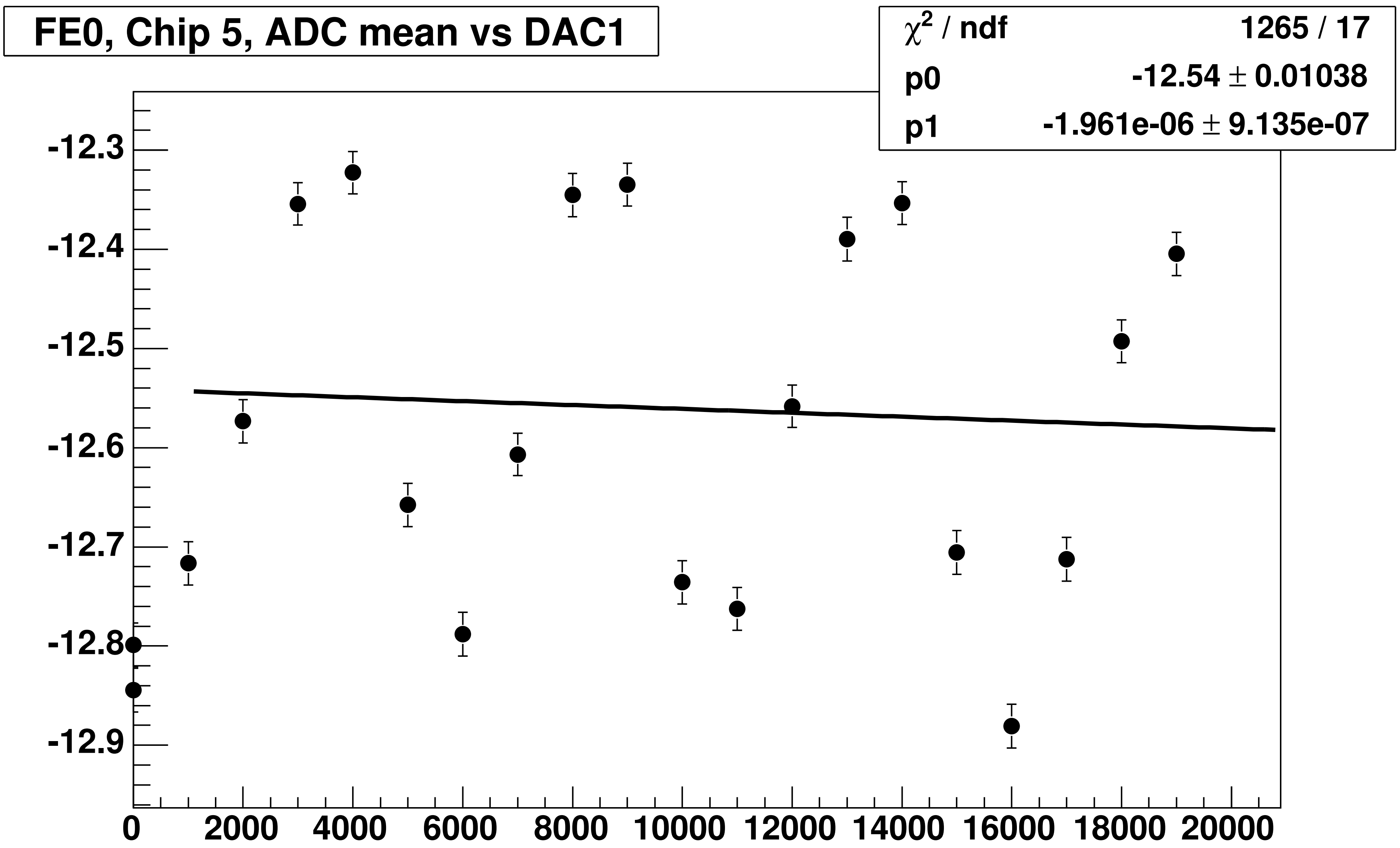


FE0, Chip 5, ADC mean vs DAC0
$\chi^2$ / ndf 3.532e+10 / 17
p0 -214.5 ± 0.01044
p1 0.6012 ± 9.416e-07
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

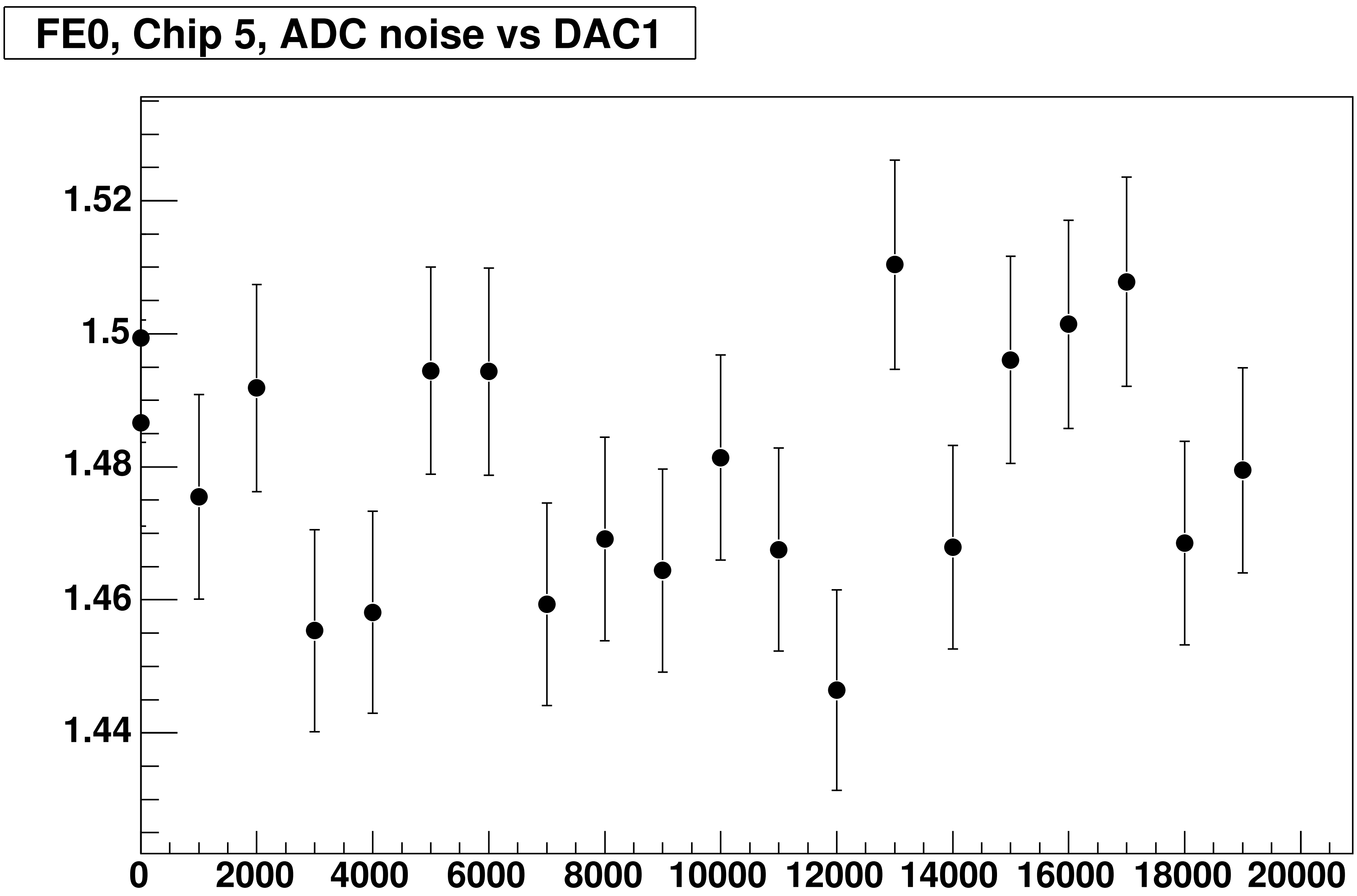


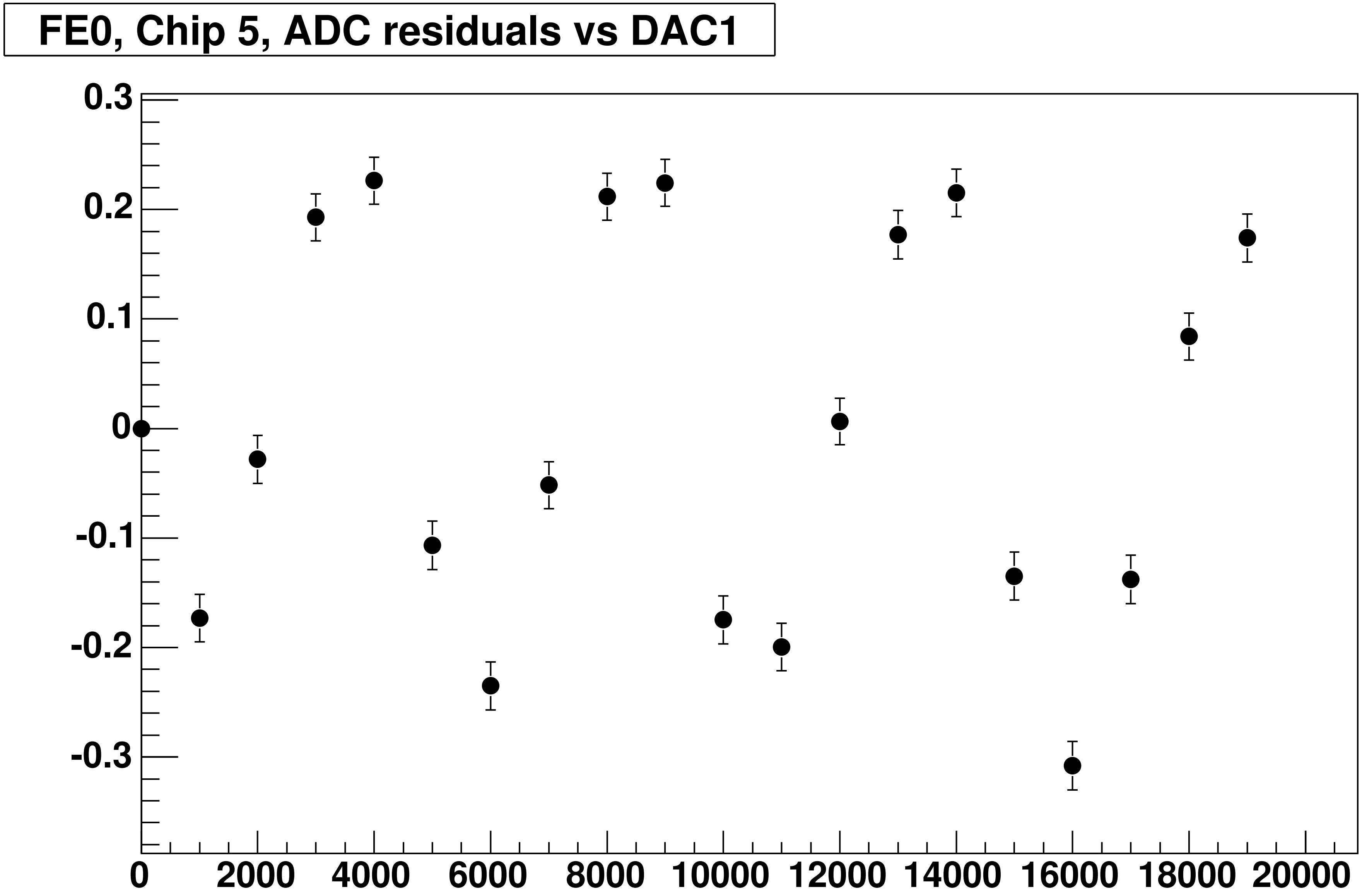
FE0, Chip 5, ADC noise vs DAC0
1.8
1.7
1.6
1.5
1.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

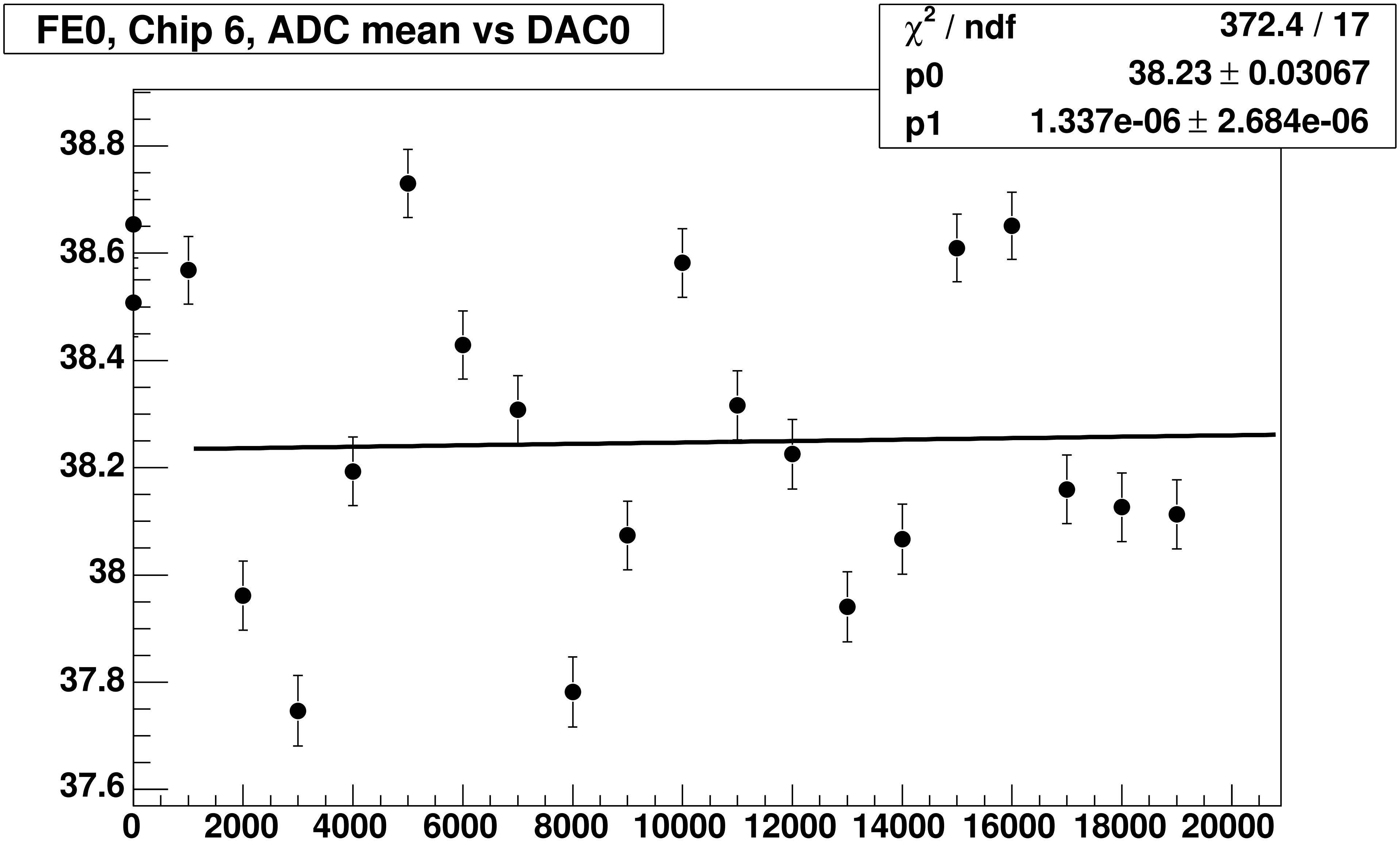

FE0, Chip 5, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

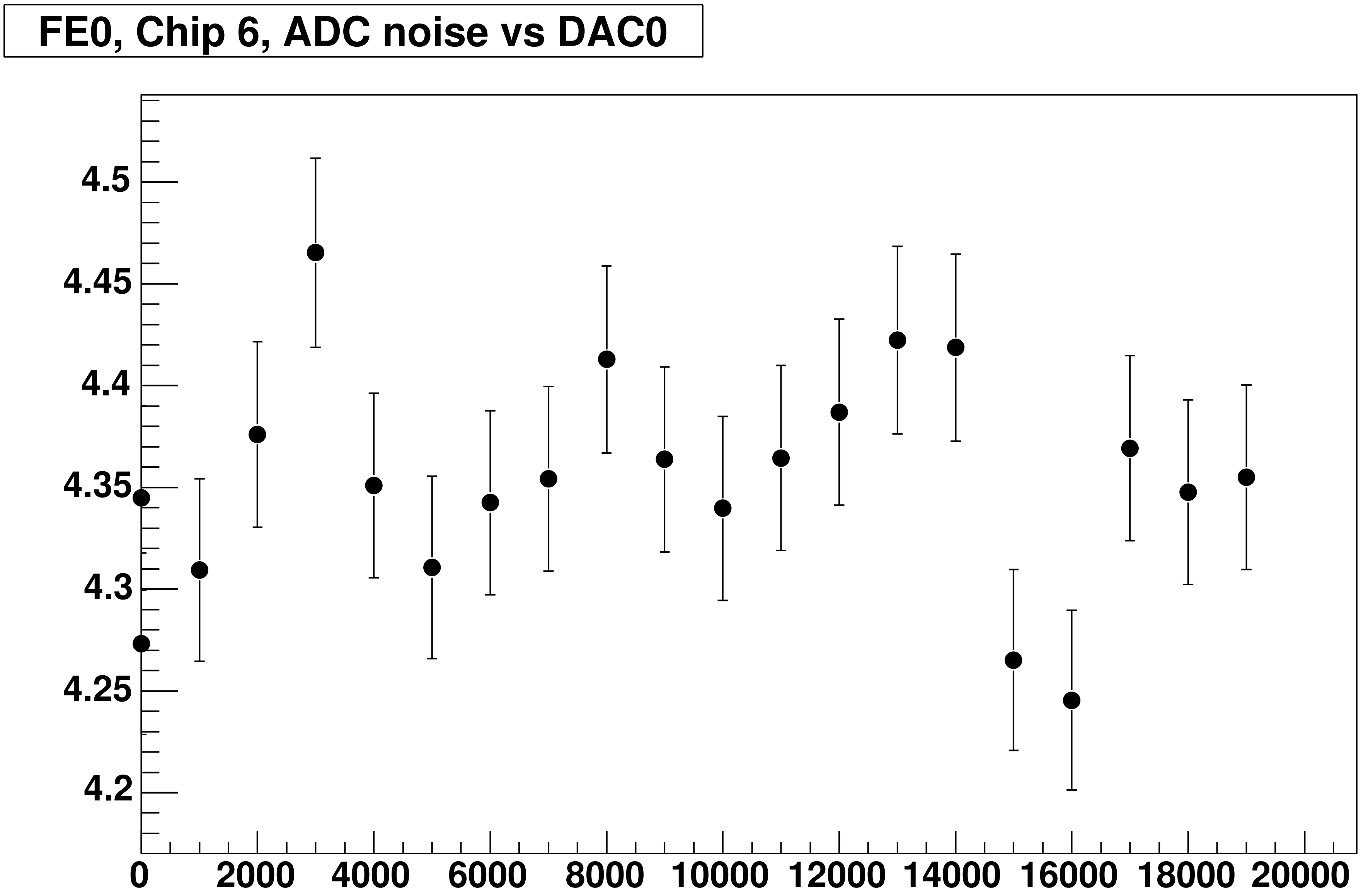


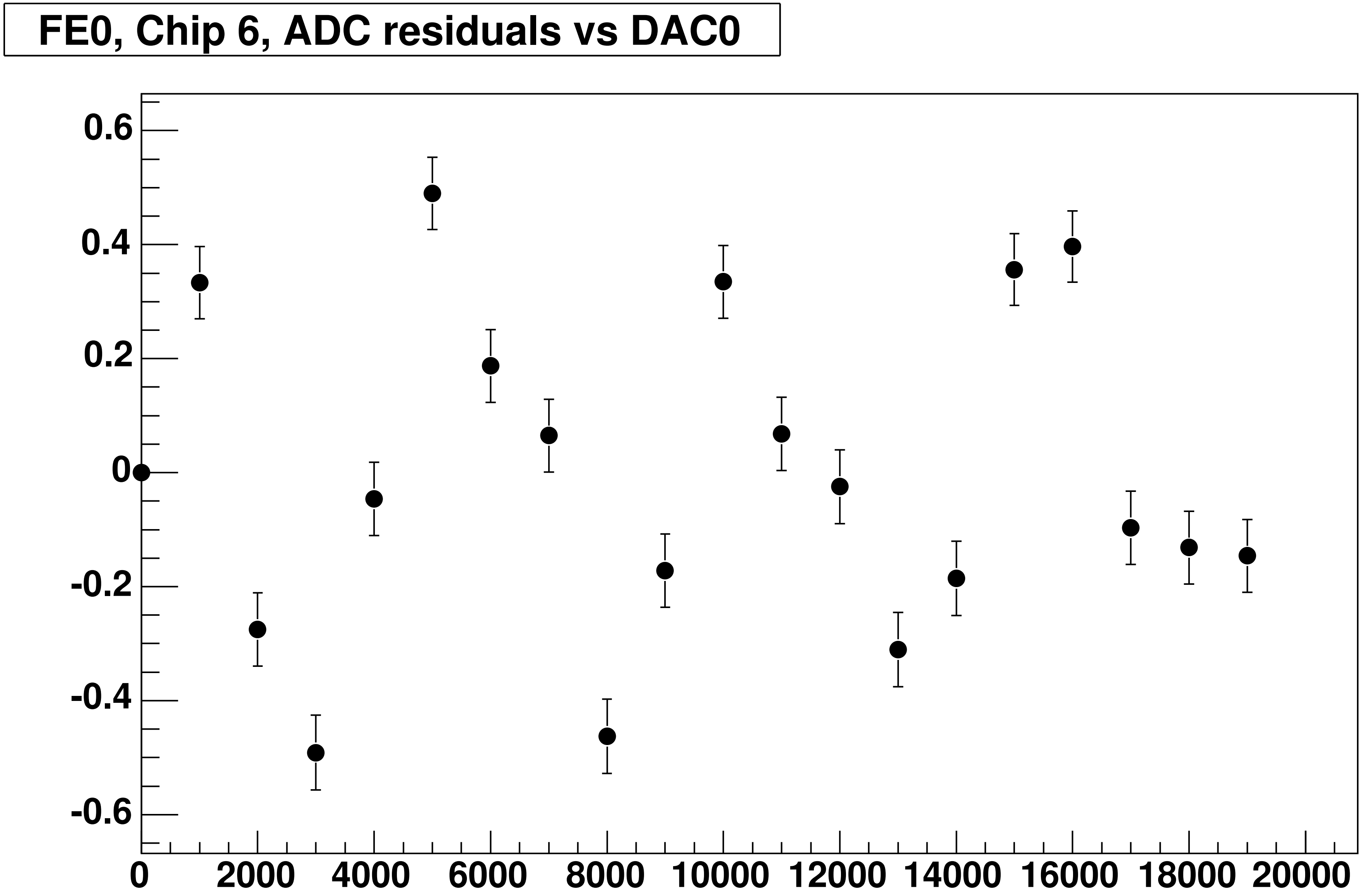
FE0, Chip 5, ADC mean vs DAC1
$\chi^2$ / ndf 1265 / 17
p0 -12.54 ± 0.01038
p1 -1.961e-06 ± 9.135e-07
-12.3
-12.4
-12.5
-12.6
-12.7
-12.8
-12.9
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

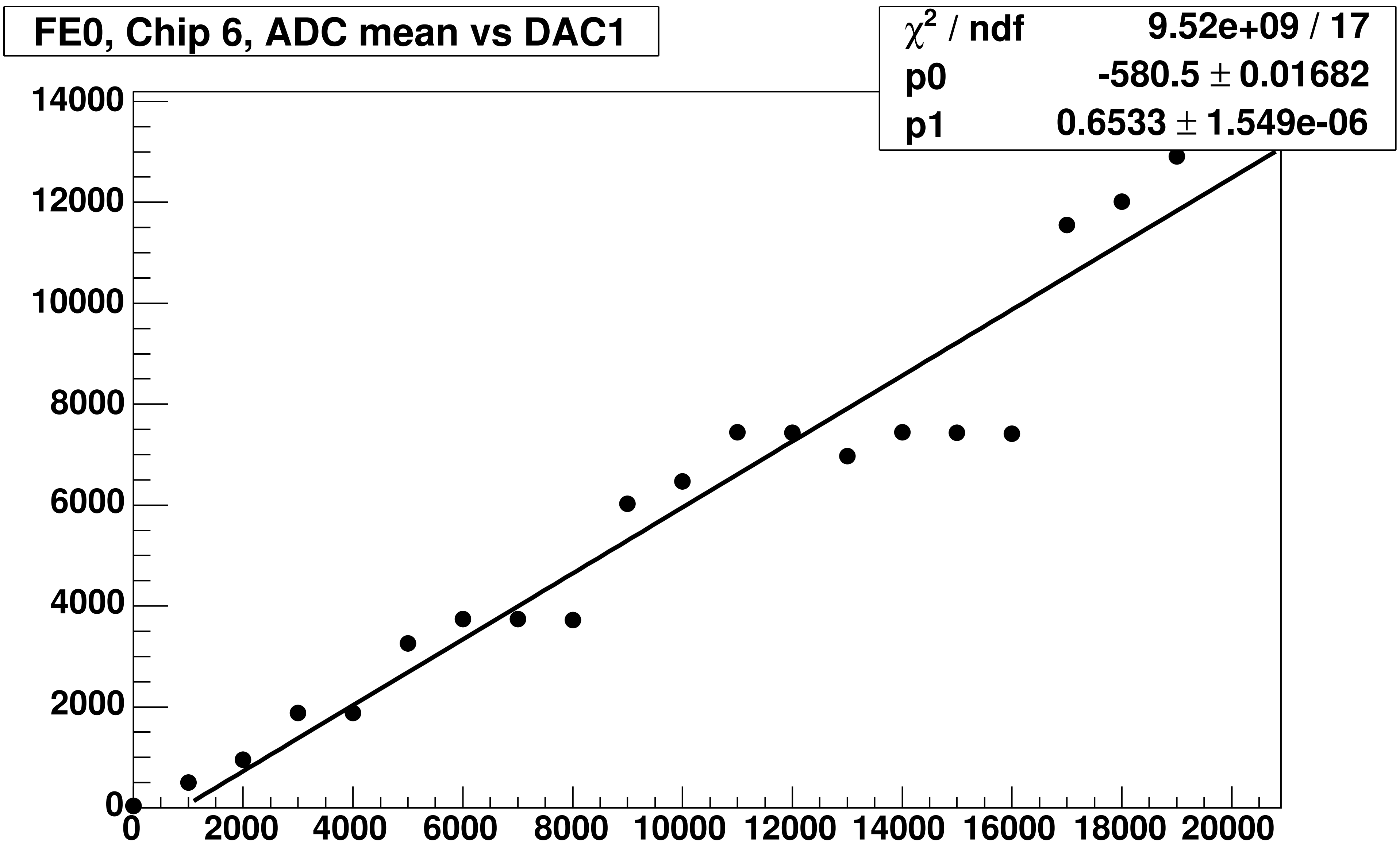

FE0, Chip 5, ADC noise vs DAC1
1.52
1.5
1.48
1.46
1.44
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

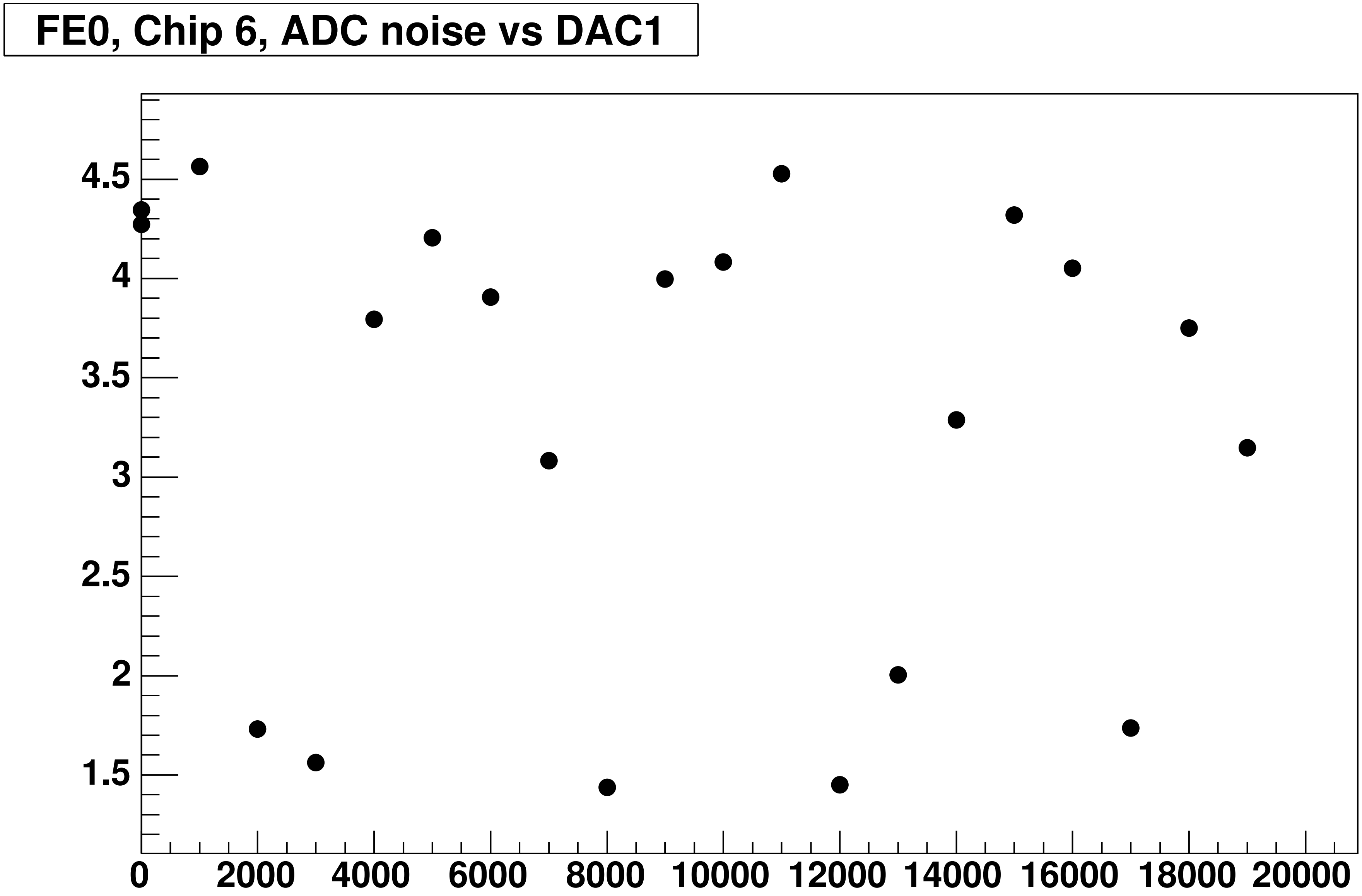

FE0, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

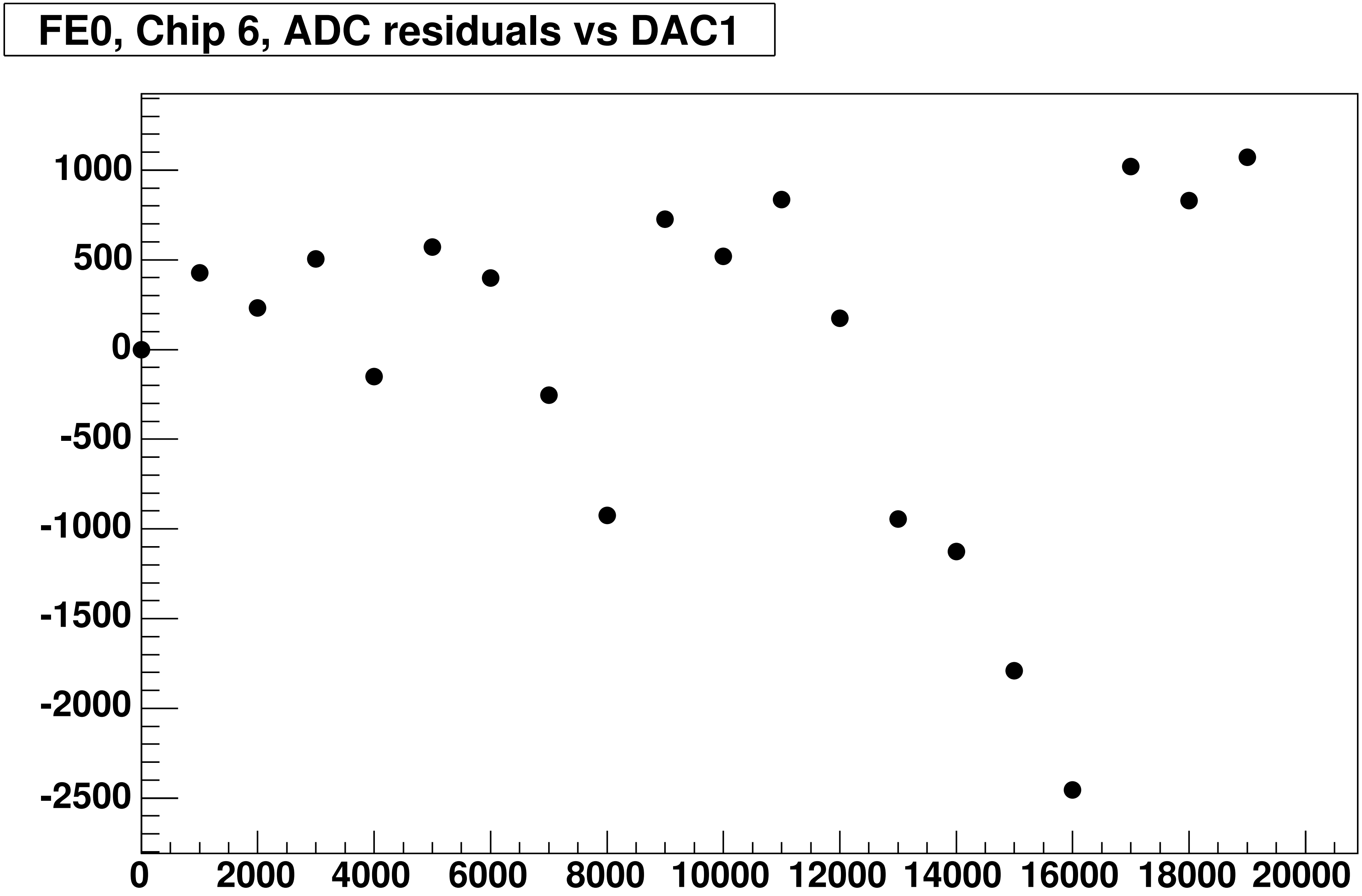

FE0, Chip 6, ADC mean vs DAC0
χ2 / ndf 372.4 / 17
p0 38.23 ± 0.03067
p1 1.337e-06 ± 2.684e-06
38.8
38.6
38.4
38.2
38
37.8
37.6
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

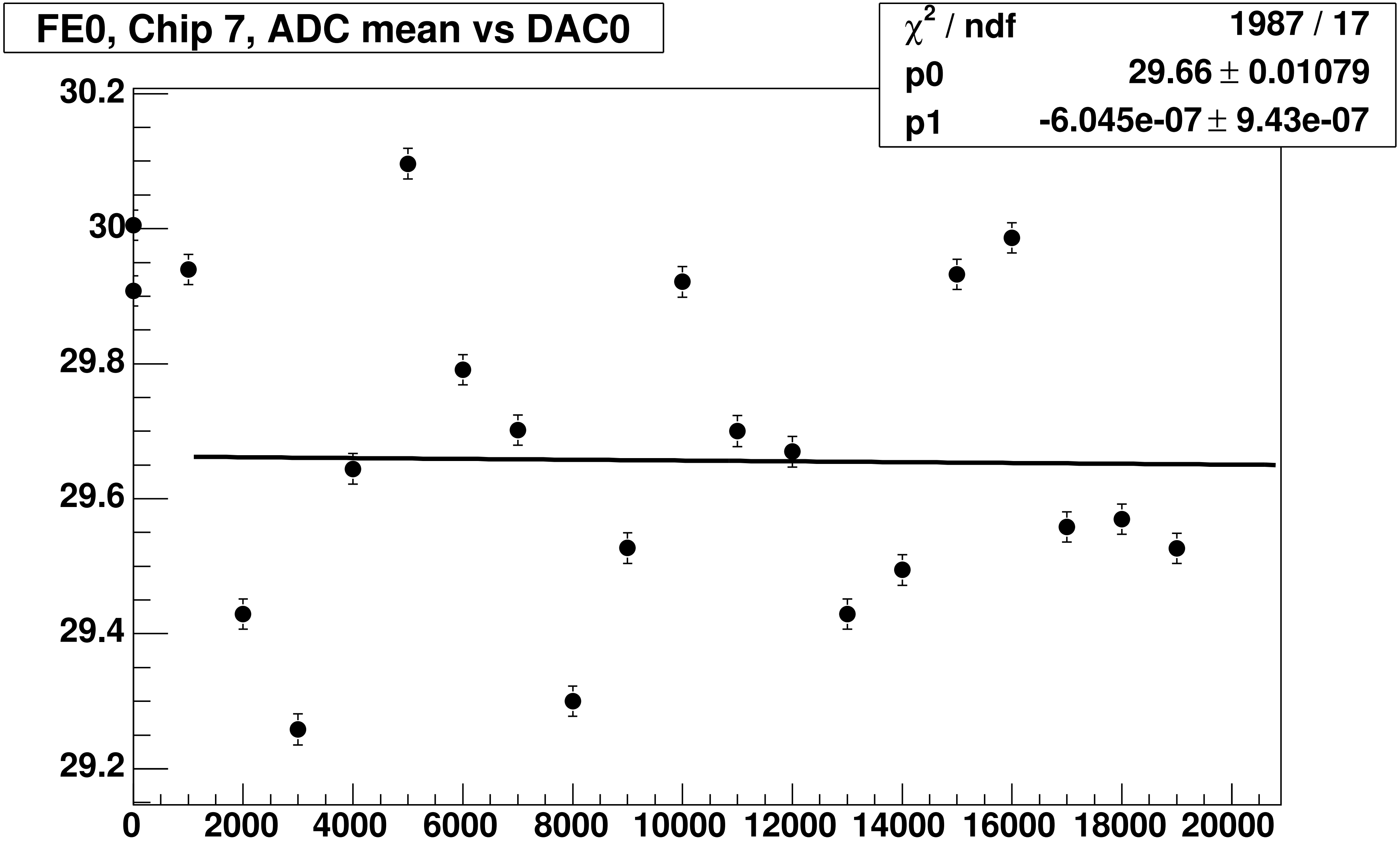

FE0, Chip 6, ADC noise vs DAC0
4.2
4.25
4.3
4.35
4.4
4.45
4.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE0, Chip 6, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

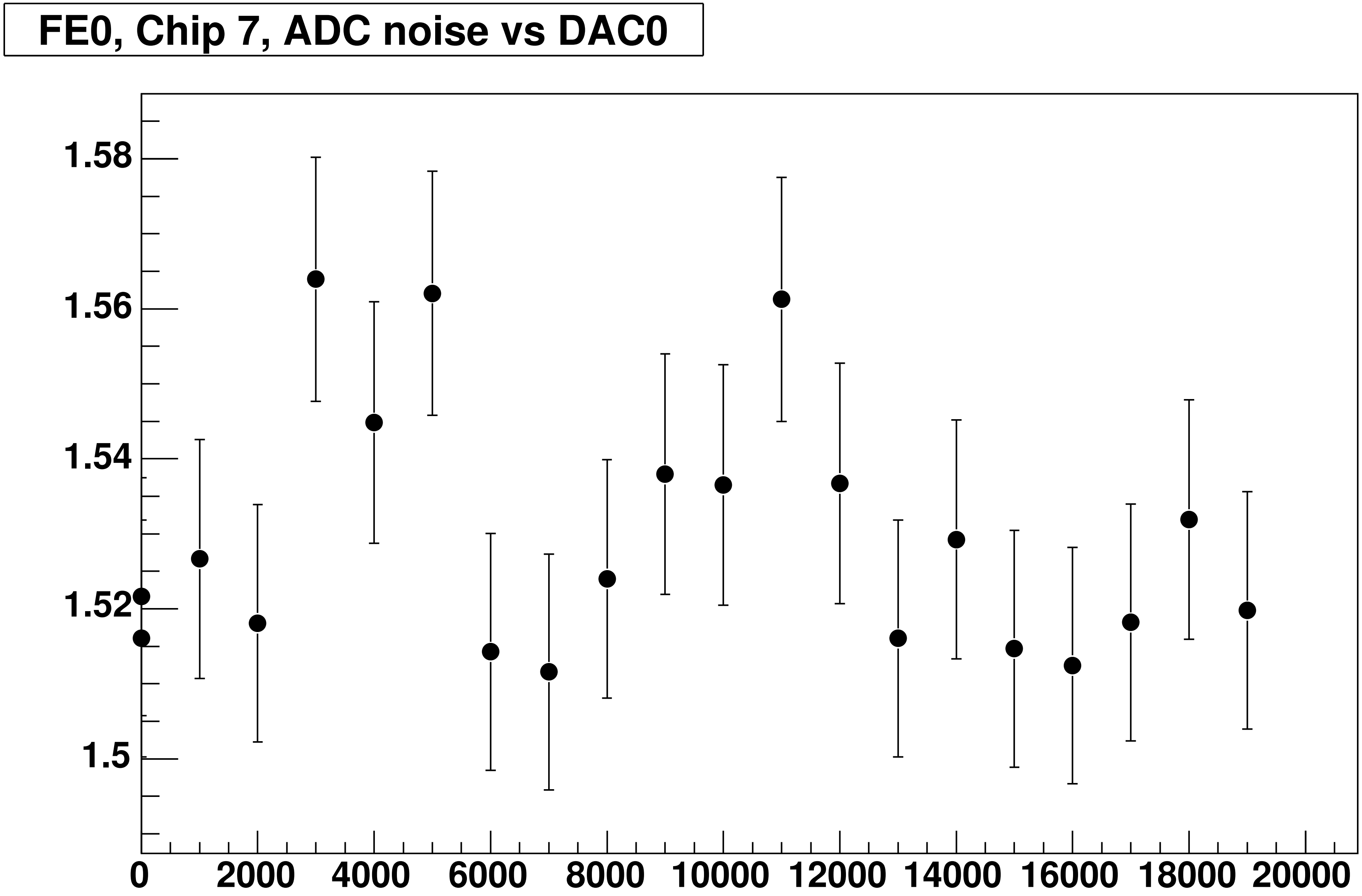

FE0, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 9.52e+09 / 17
p0 -580.5 ± 0.01682
p1 0.6533 ± 1.549e-06
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE0, Chip 6, ADC noise vs DAC1
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

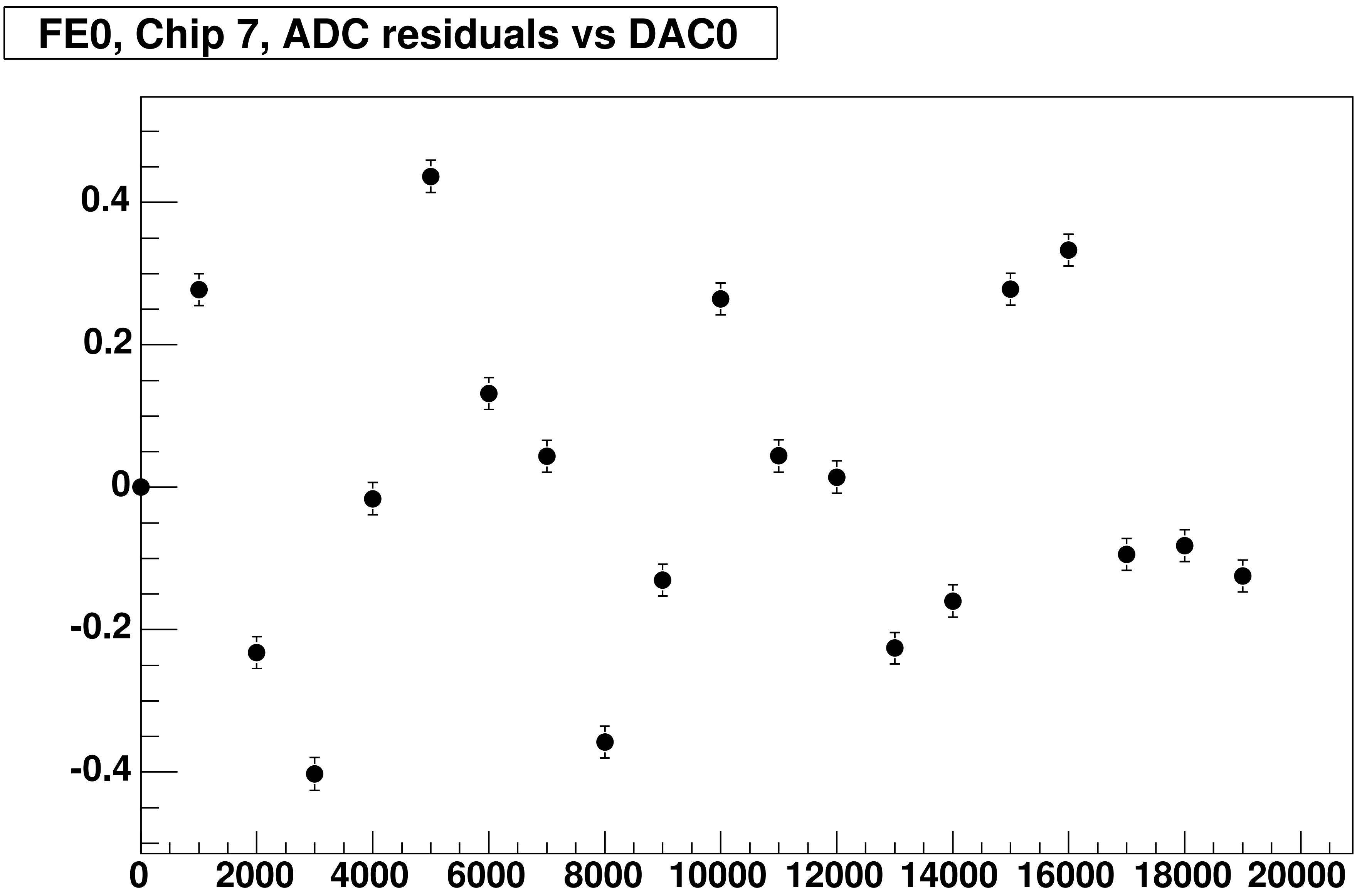

FE0, Chip 6, ADC residuals vs DAC1
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

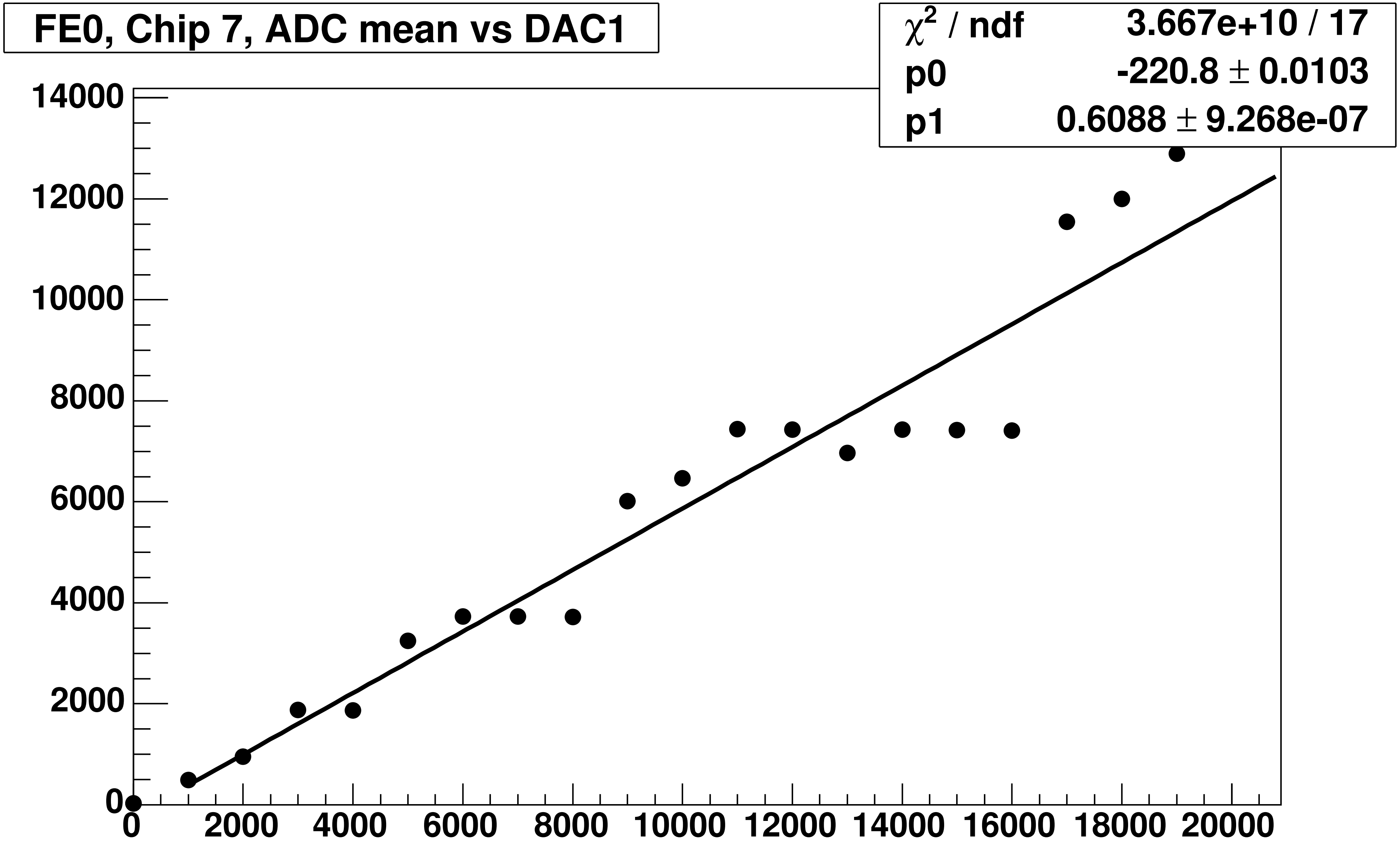


FE0, Chip 7, ADC mean vs DAC0
$\chi^2$ / ndf 1987 / 17
p0 29.66 ± 0.01079
p1 -6.045e-07 ± 9.43e-07
30.2
30
29.8
29.6
29.4
29.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

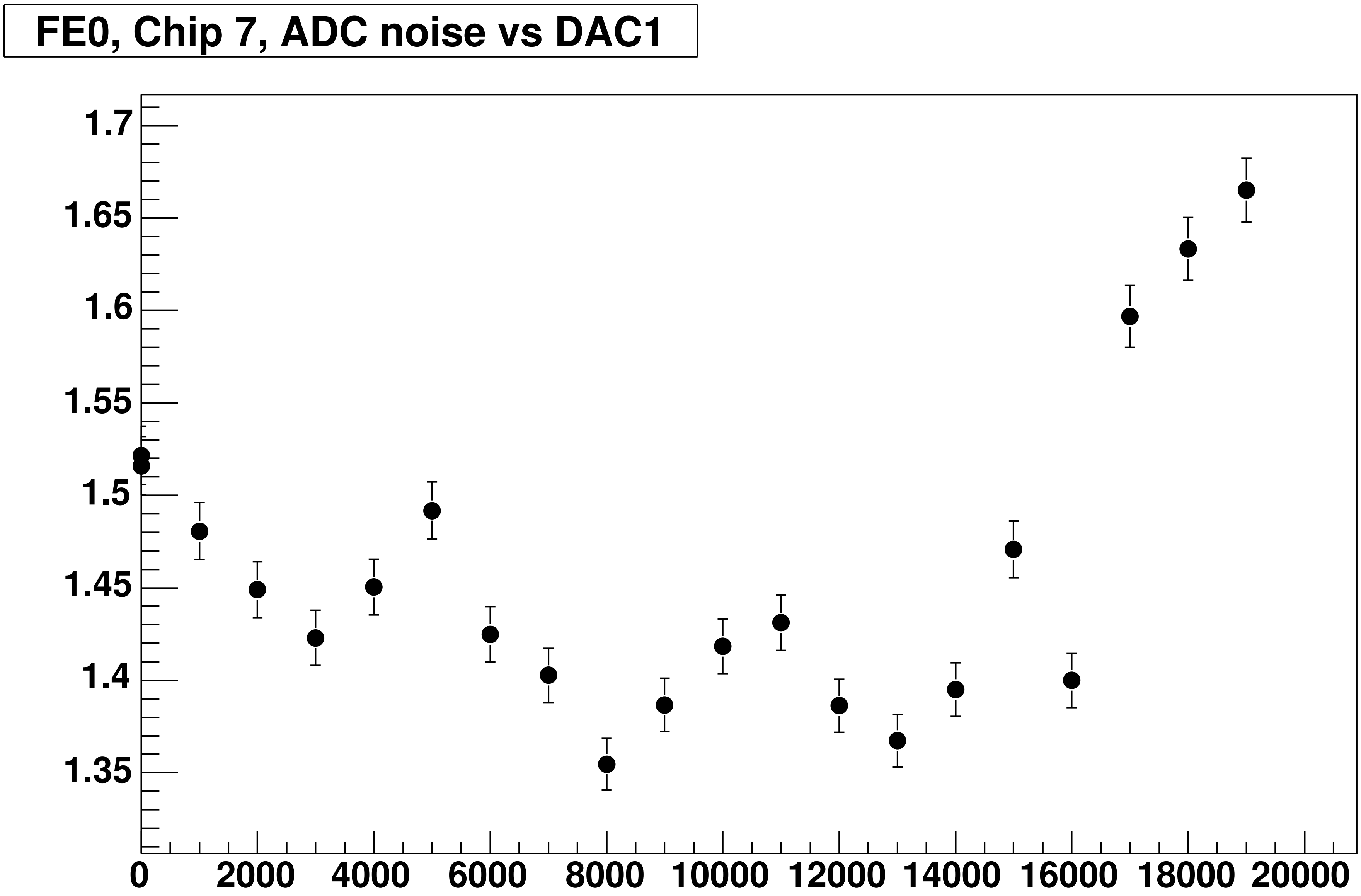


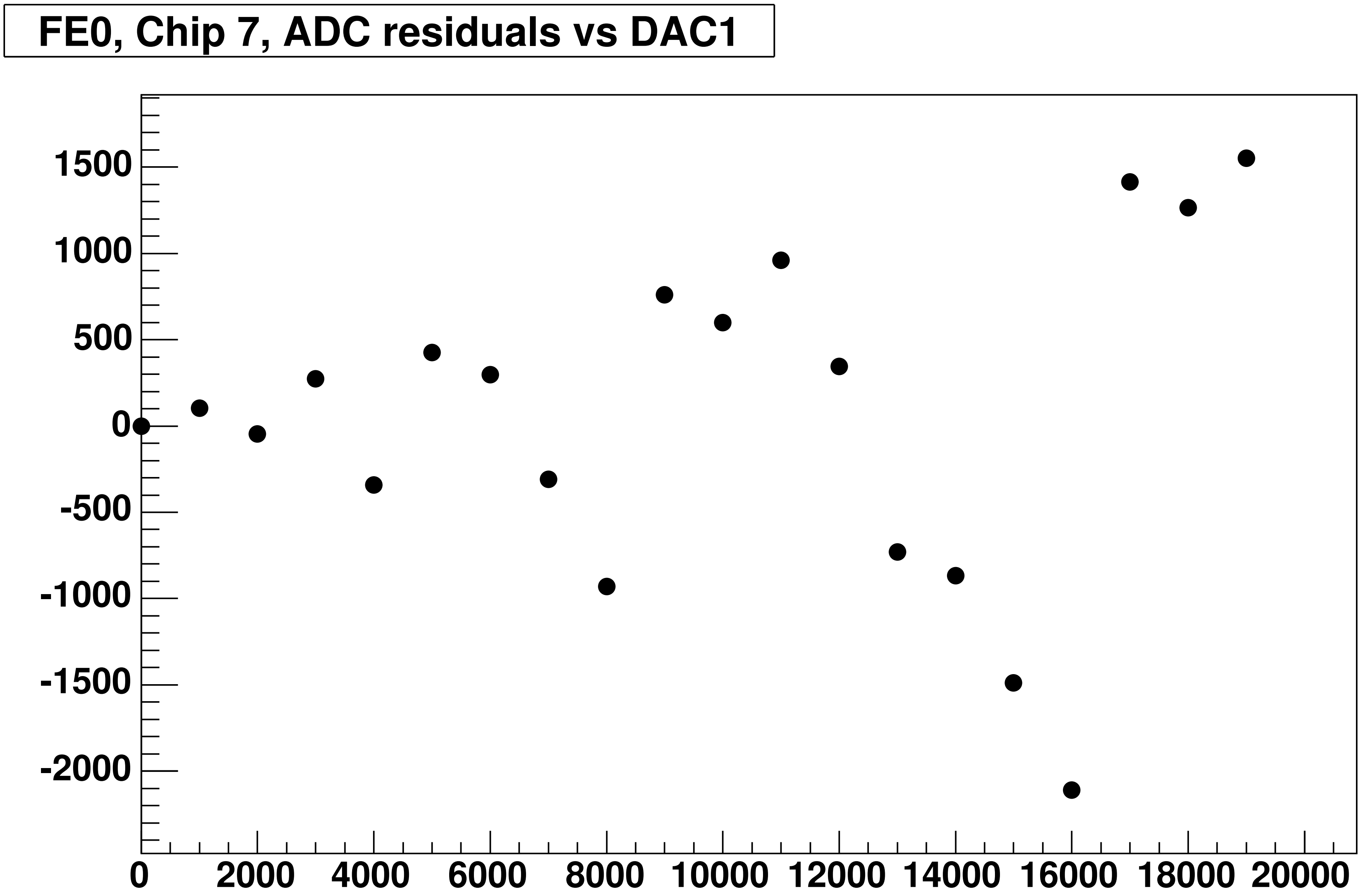
FE0, Chip 7, ADC noise vs DAC0
1.58
1.56
1.54
1.52
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

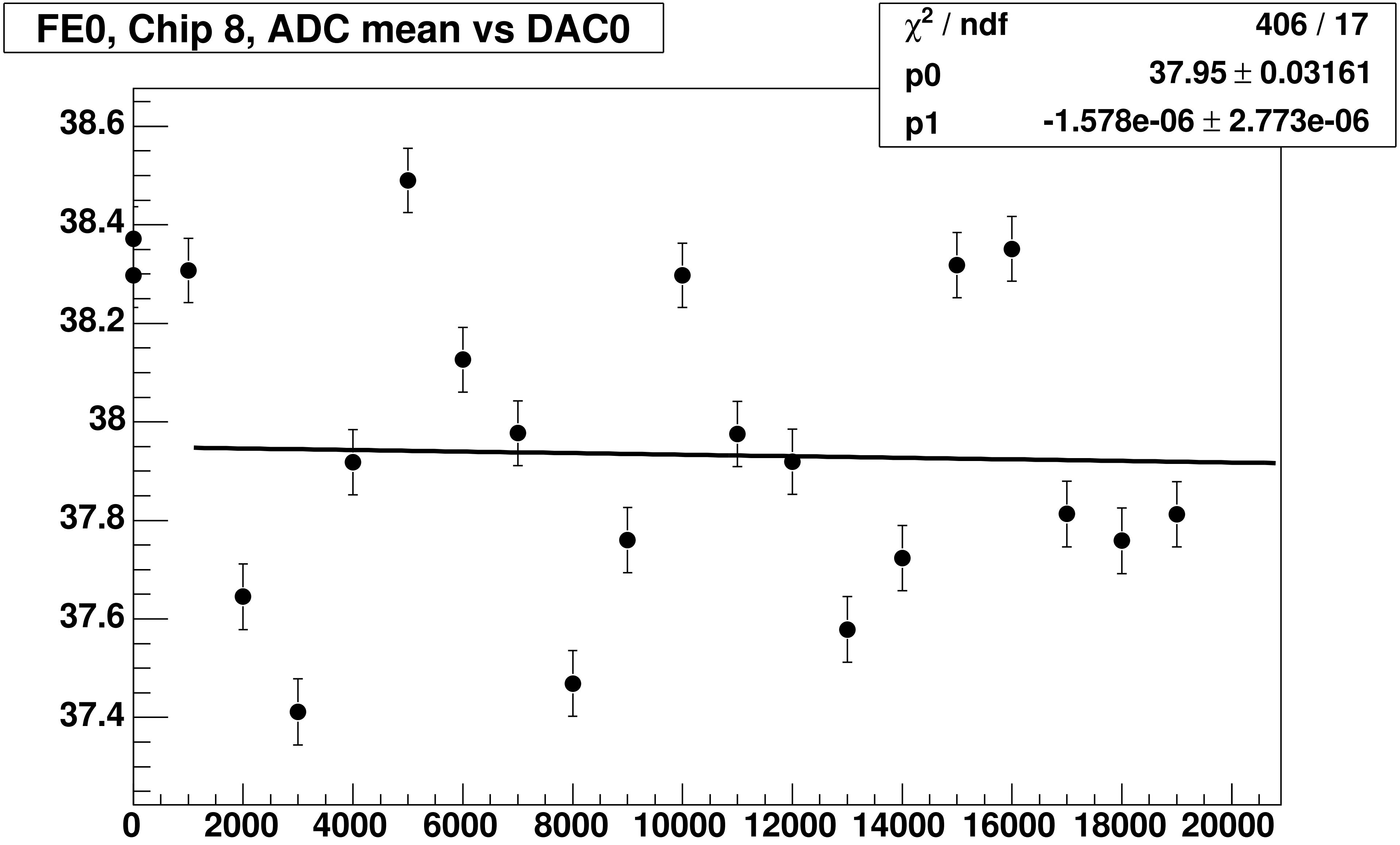

FE0, Chip 7, ADC residuals vs DAC0
0.4
0.2
0
-0.2
-0.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



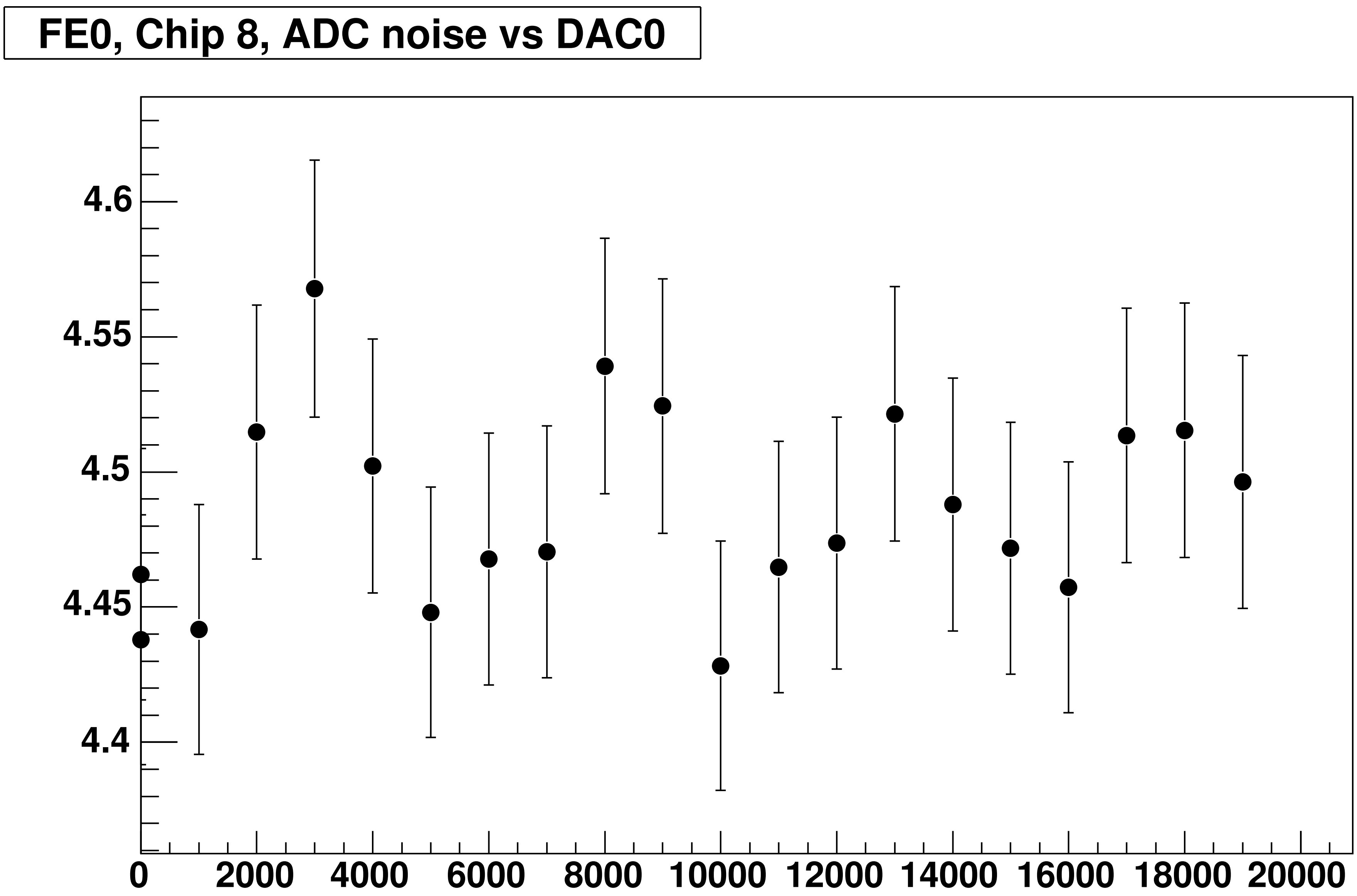
FE0, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 3.667e+10 / 17
p0 -220.8 ± 0.0103
p1 0.6088 ± 9.268e-07
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

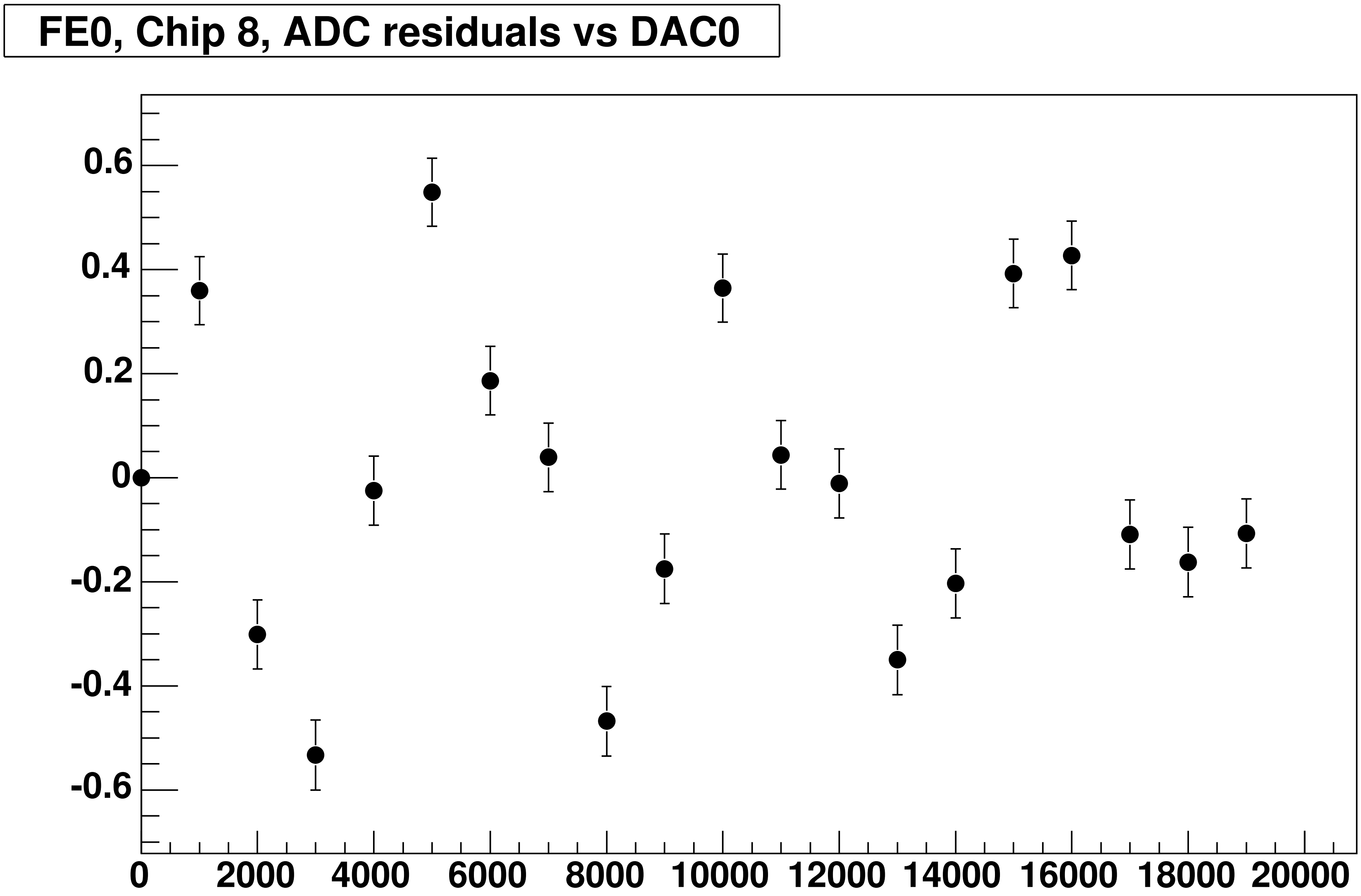

FE0, Chip 7, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

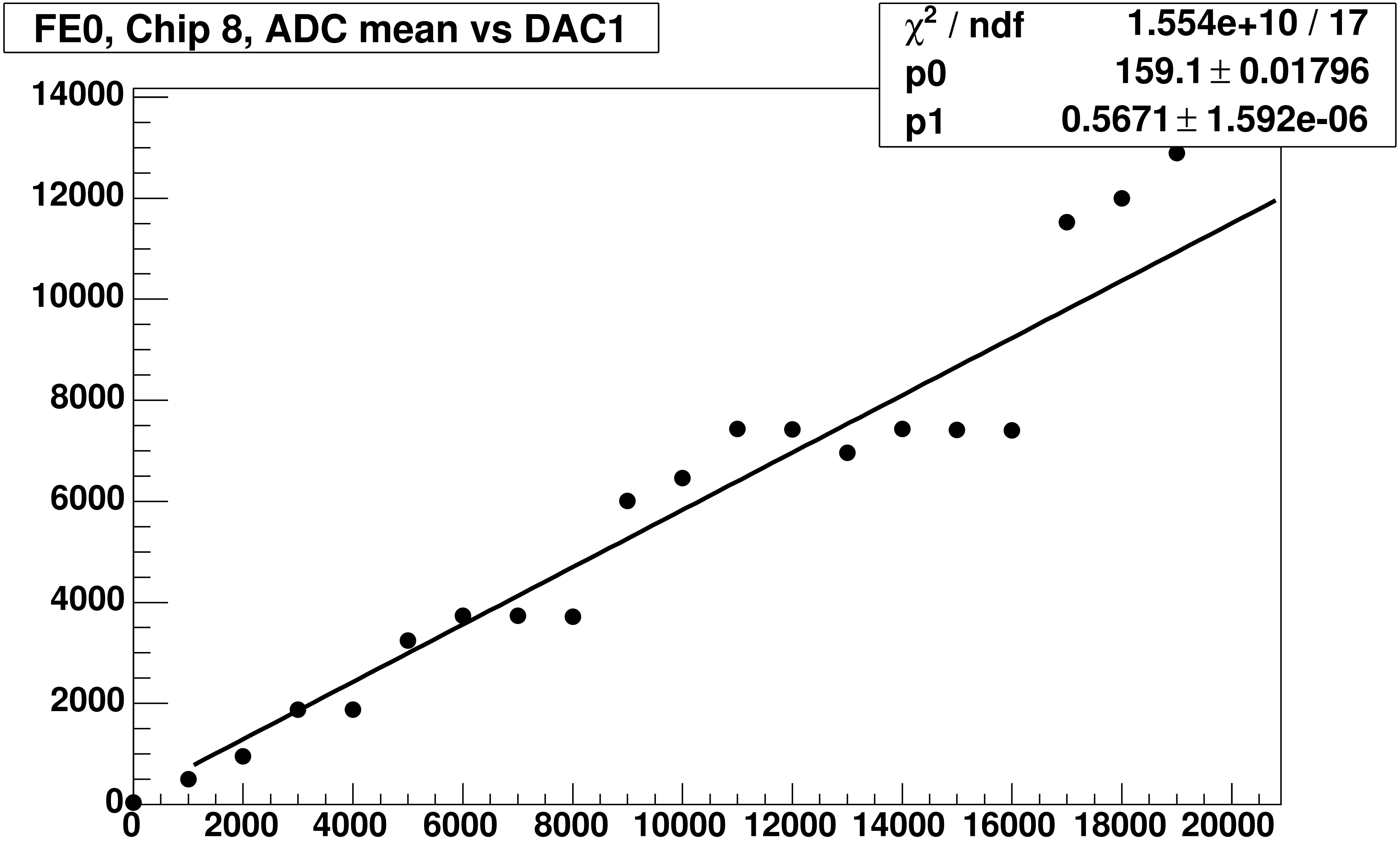

FE0, Chip 7, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



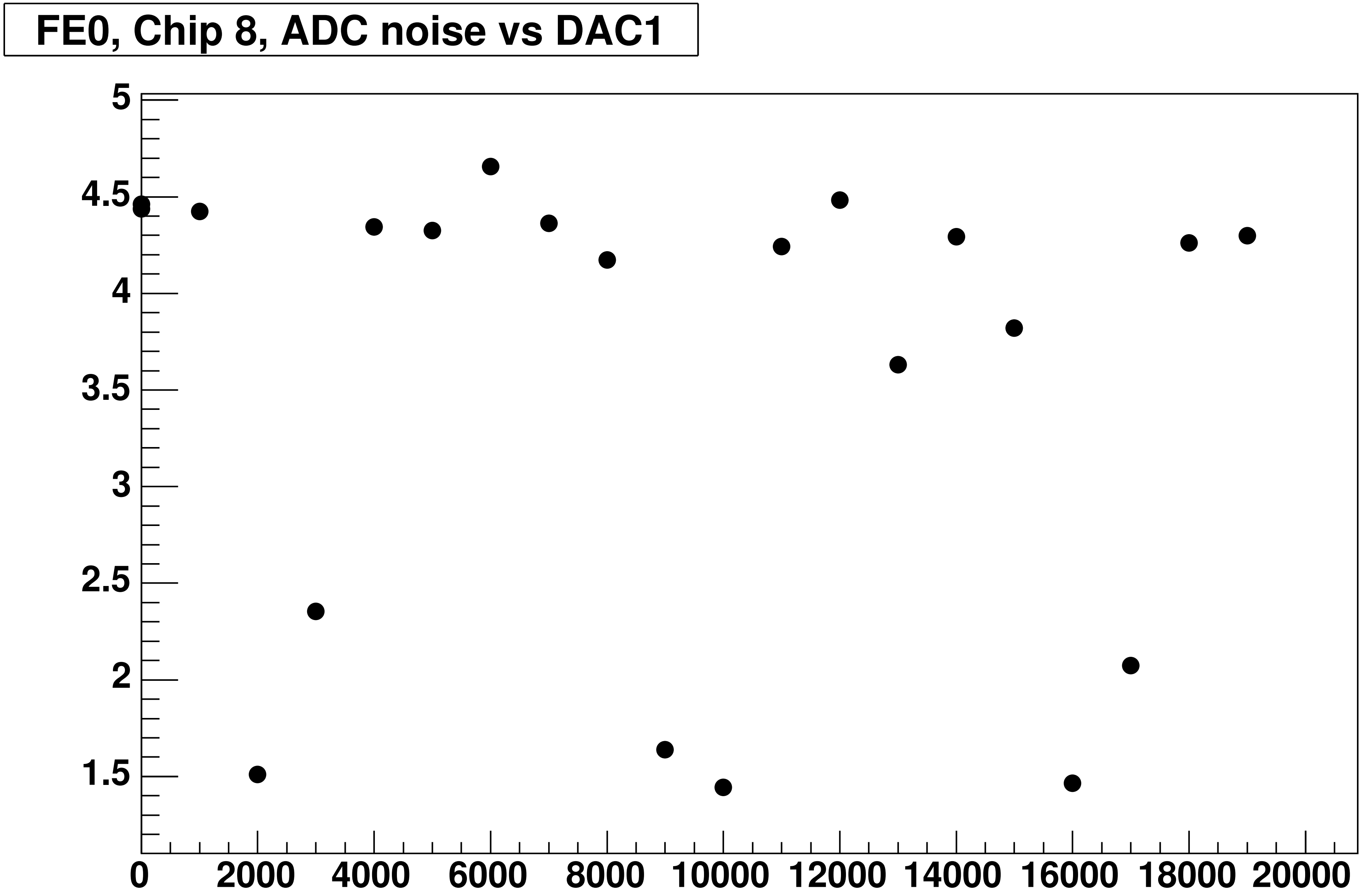
FE0, Chip 8, ADC mean vs DAC0
χ2 / ndf 406 / 17
p0 37.95 ± 0.03161
p1 -1.578e-06 ± 2.773e-06
38.6
38.4
38.2
38
37.8
37.6
37.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

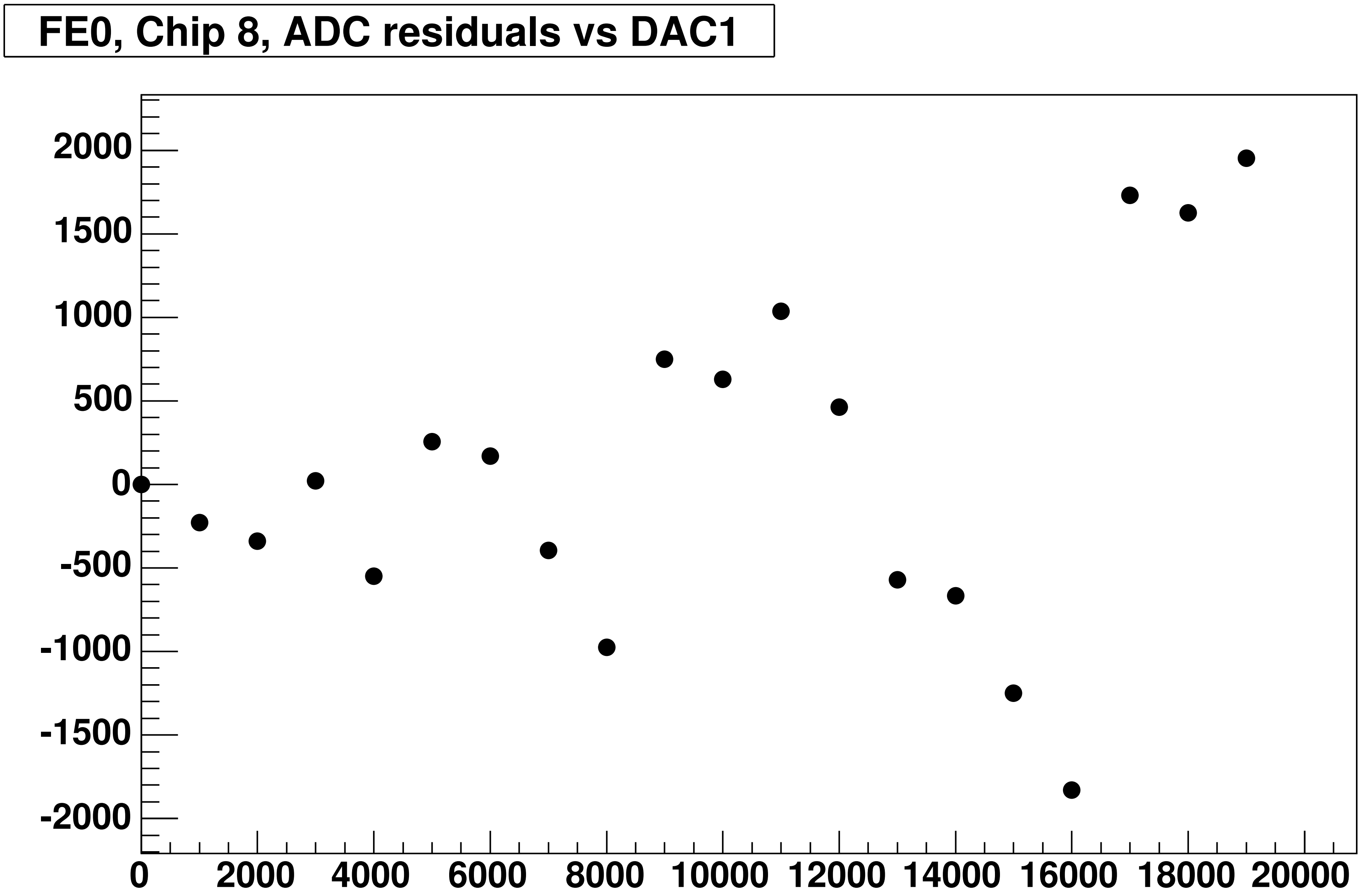

FE0, Chip 8, ADC noise vs DAC0
4.6
4.55
4.5
4.45
4.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

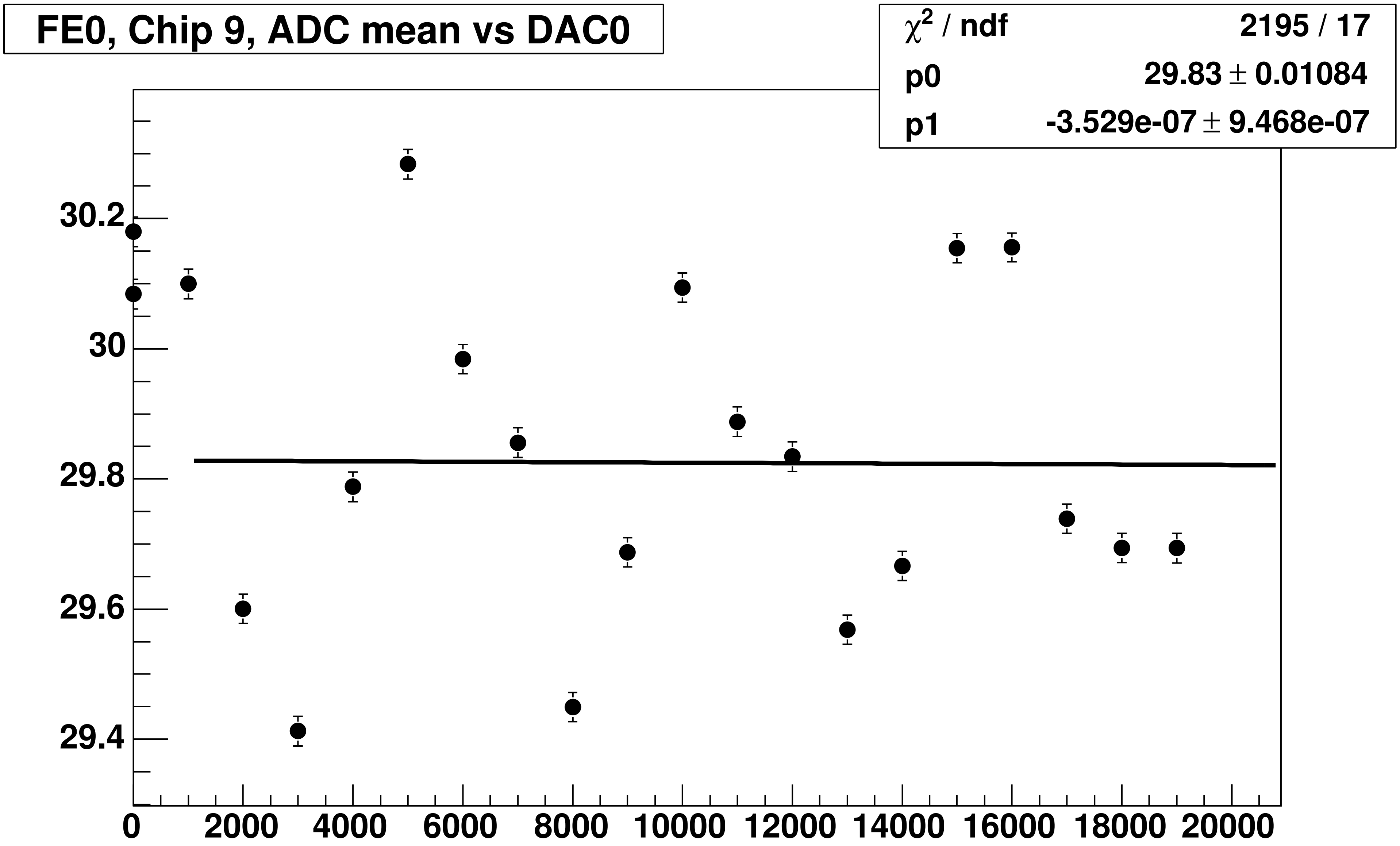

FE0, Chip 8, ADC residuals vs DAC0
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

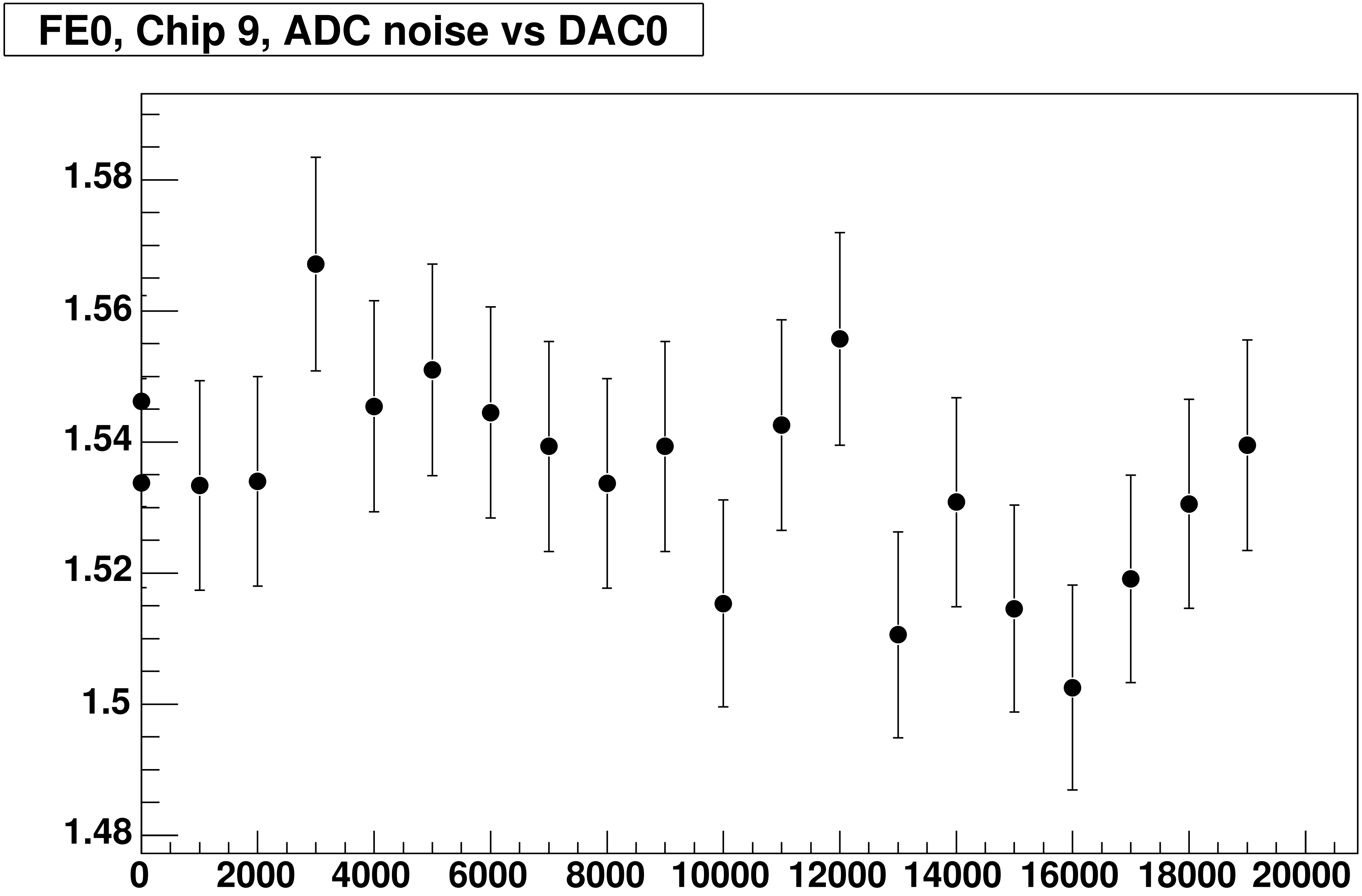


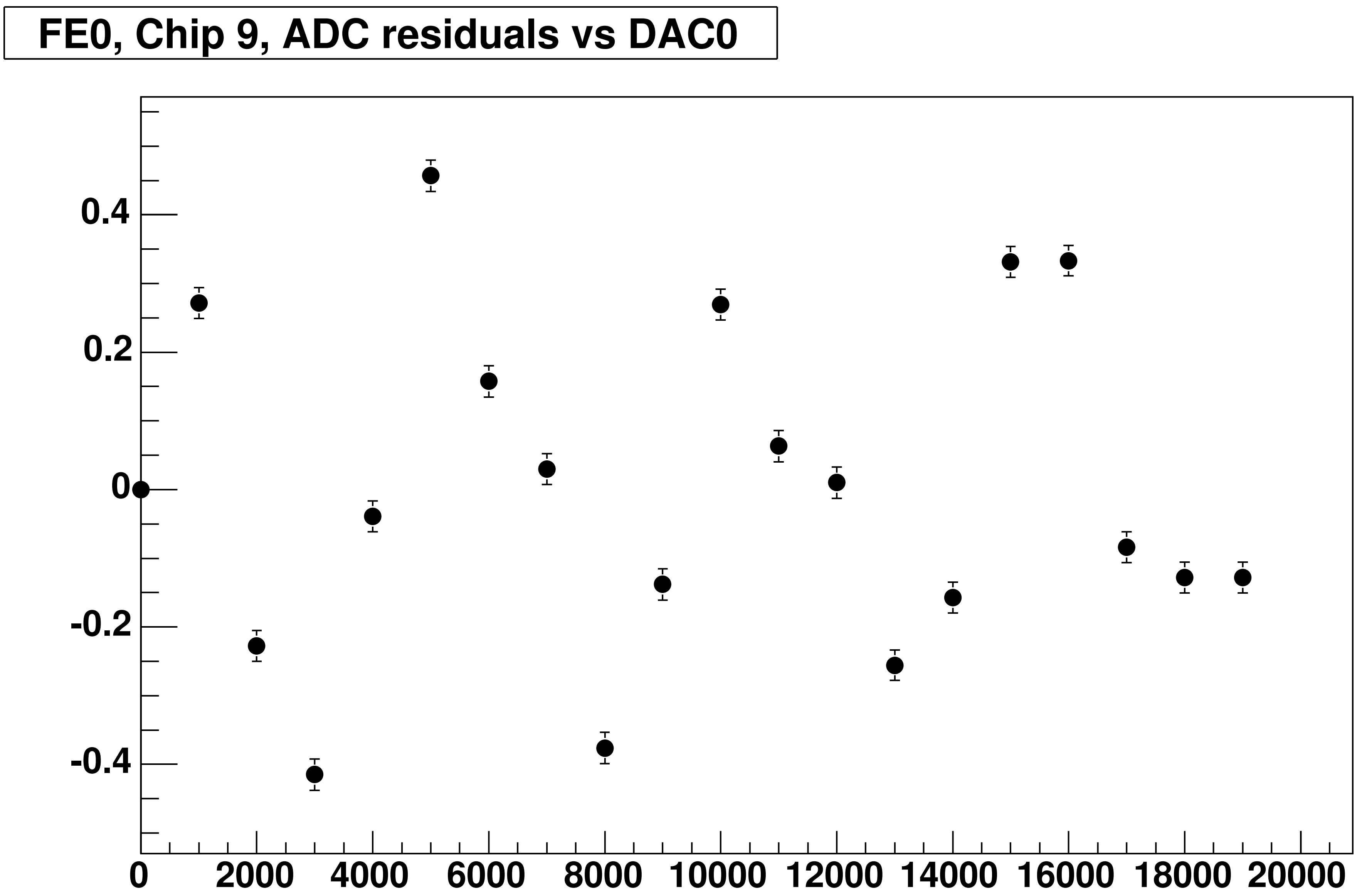
FE0, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 1.554e+10 / 17
p0 159.1 ± 0.01796
p1 0.5671 ± 1.592e-06
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

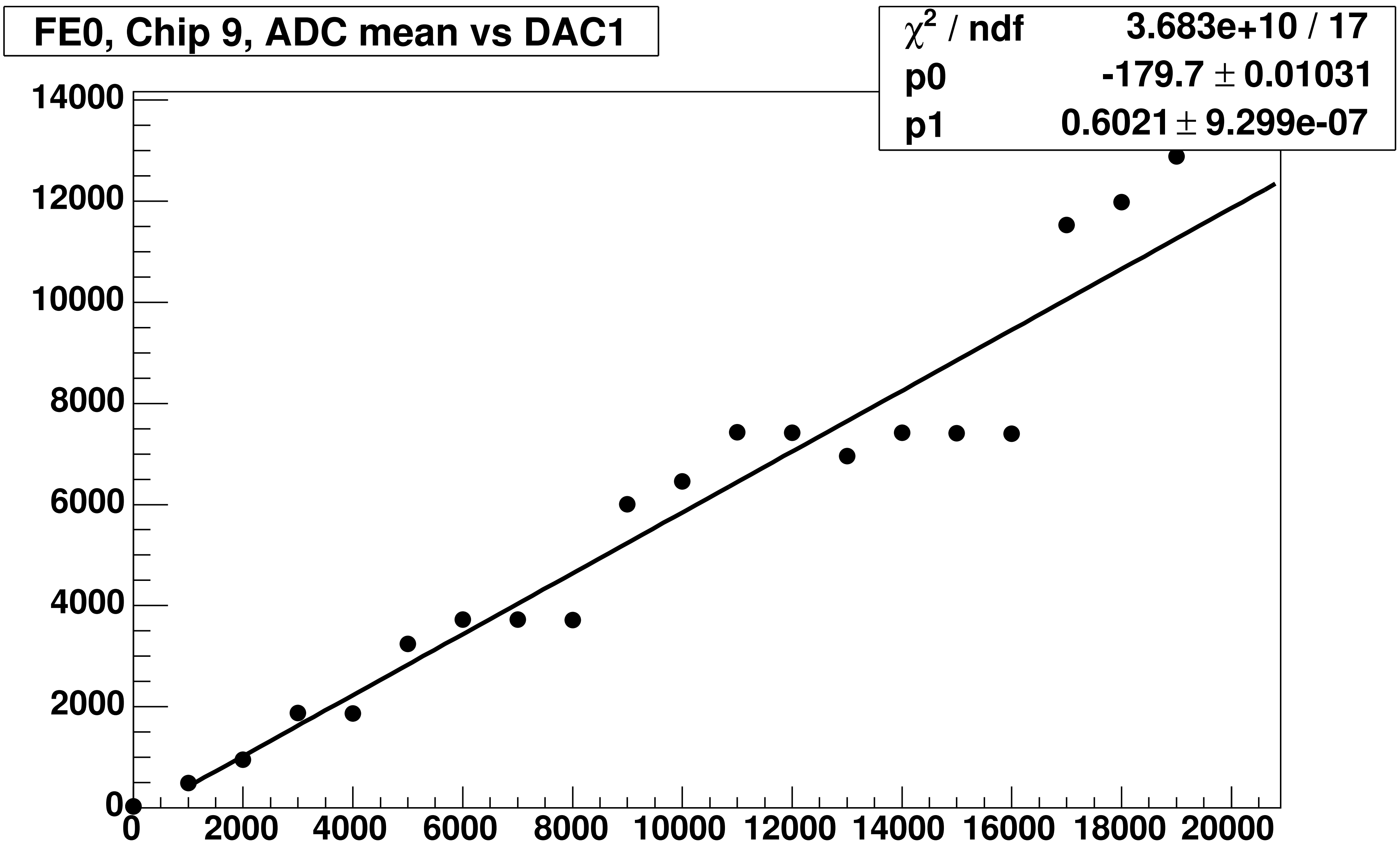

FE0, Chip 8, ADC noise vs DAC1
5
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE0, Chip 8, ADC residuals vs DAC1
2000
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

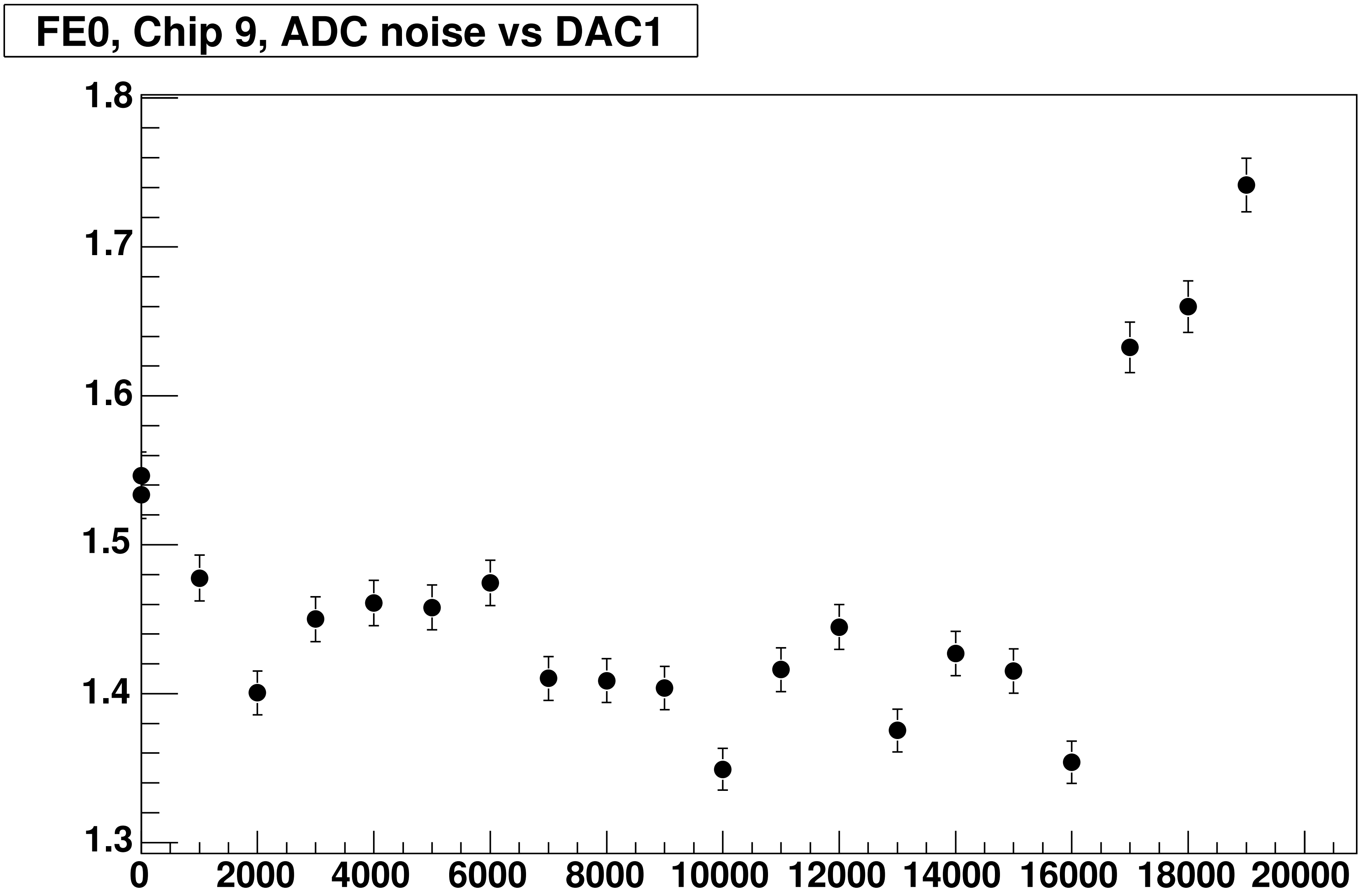

FE0, Chip 9, ADC mean vs DAC0
$\chi^2$ / ndf 2195 / 17
p0 29.83 ± 0.01084
p1 -3.529e-07 ± 9.468e-07
30.2
30
29.8
29.6
29.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

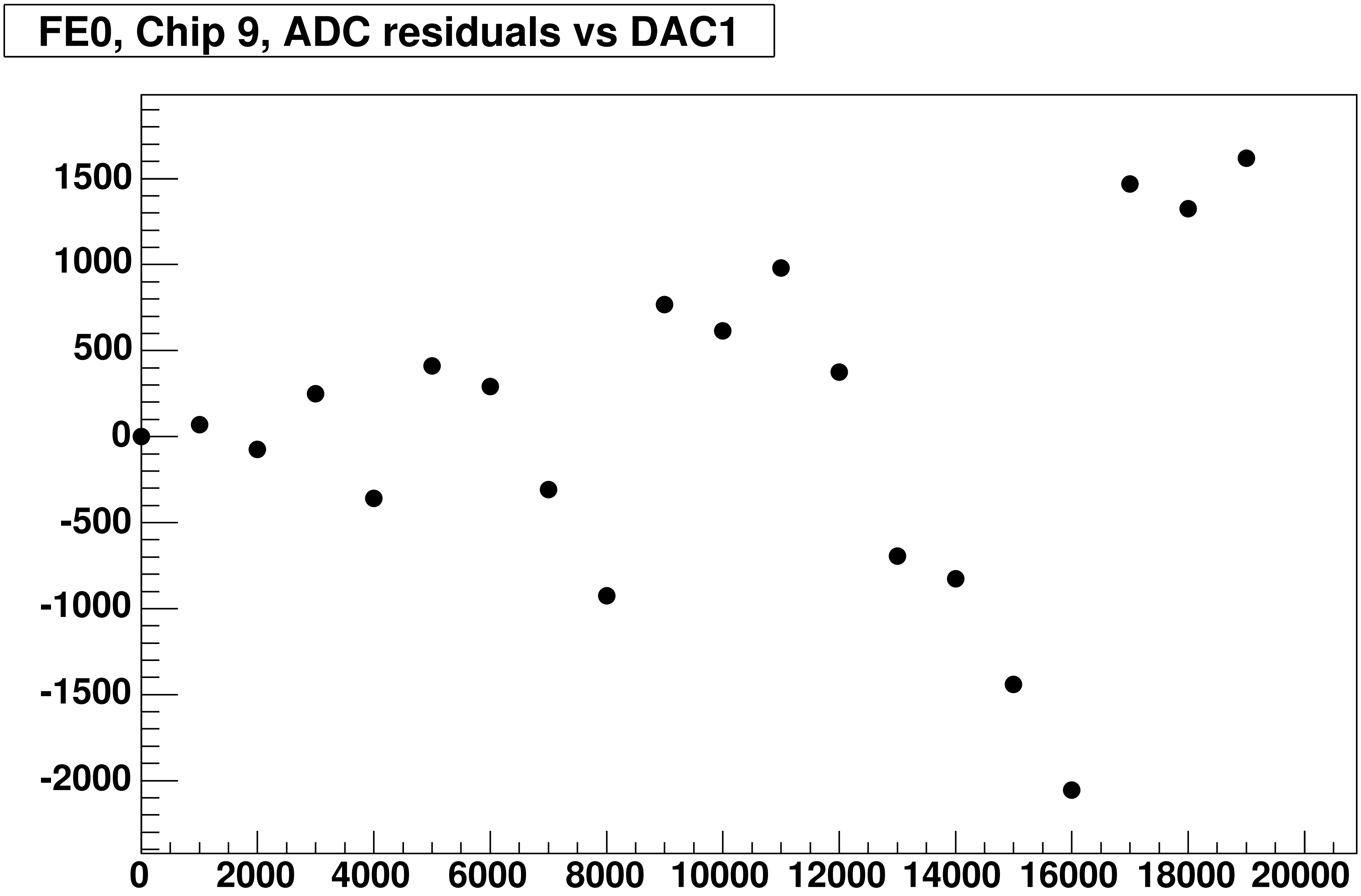

FE0, Chip 9, ADC noise vs DAC0
1.58
1.56
1.54
1.52
1.5
1.48
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE0, Chip 9, ADC residuals vs DAC0
0.4
0.2
0
-0.2
-0.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

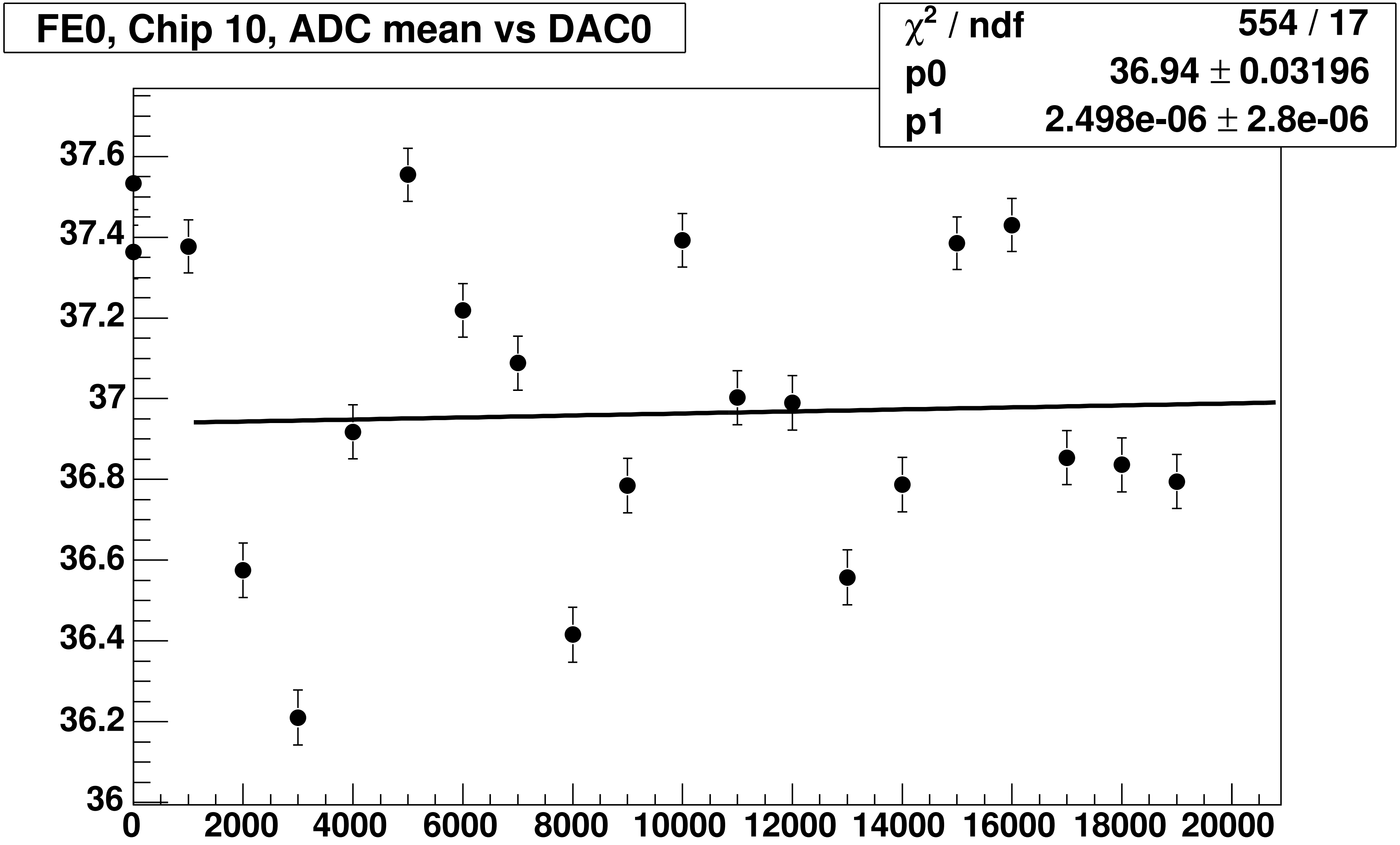


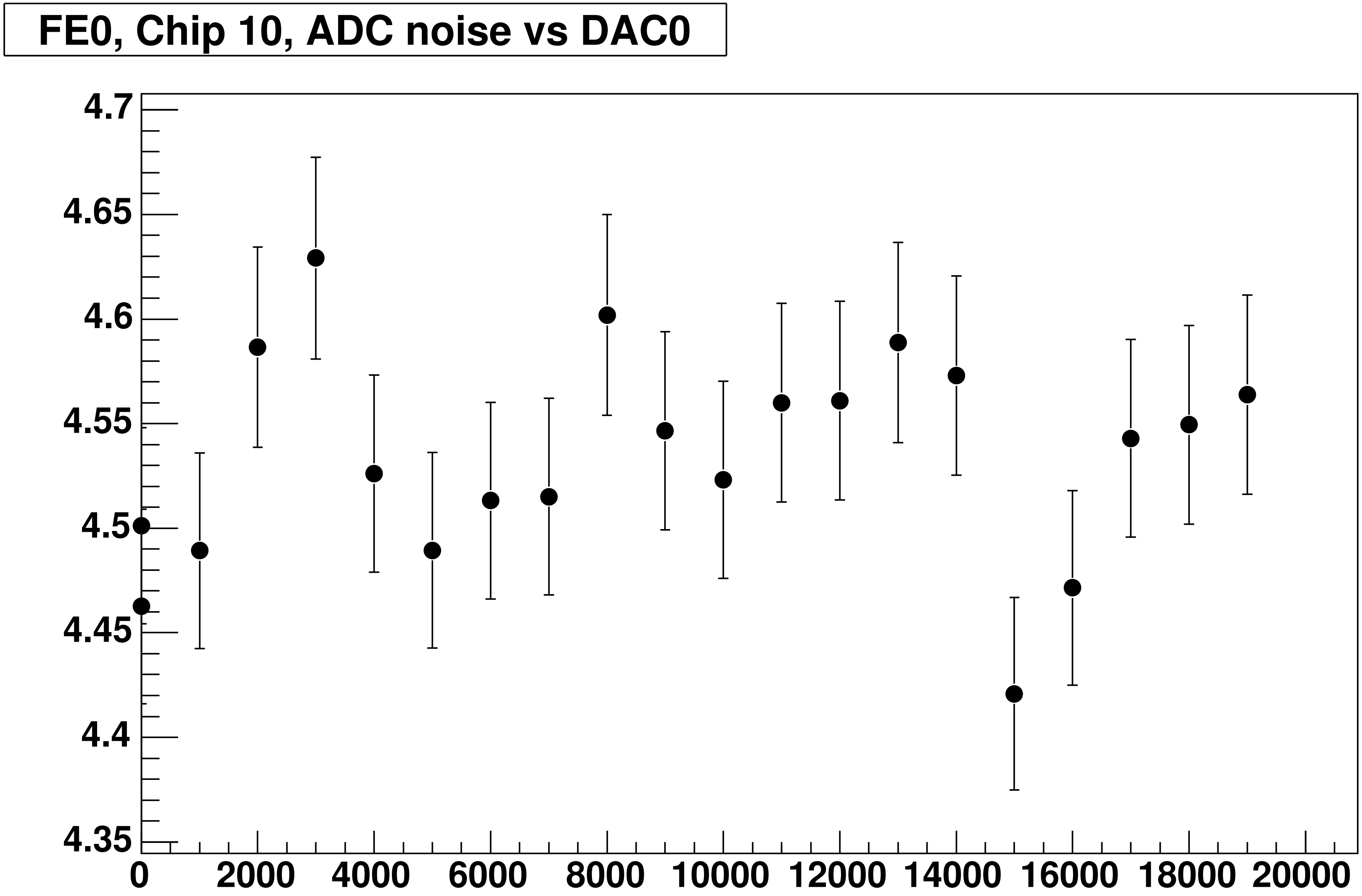
FE0, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 3.683e+10 / 17
p0 -179.7 ± 0.01031
p1 0.6021 ± 9.299e-07
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

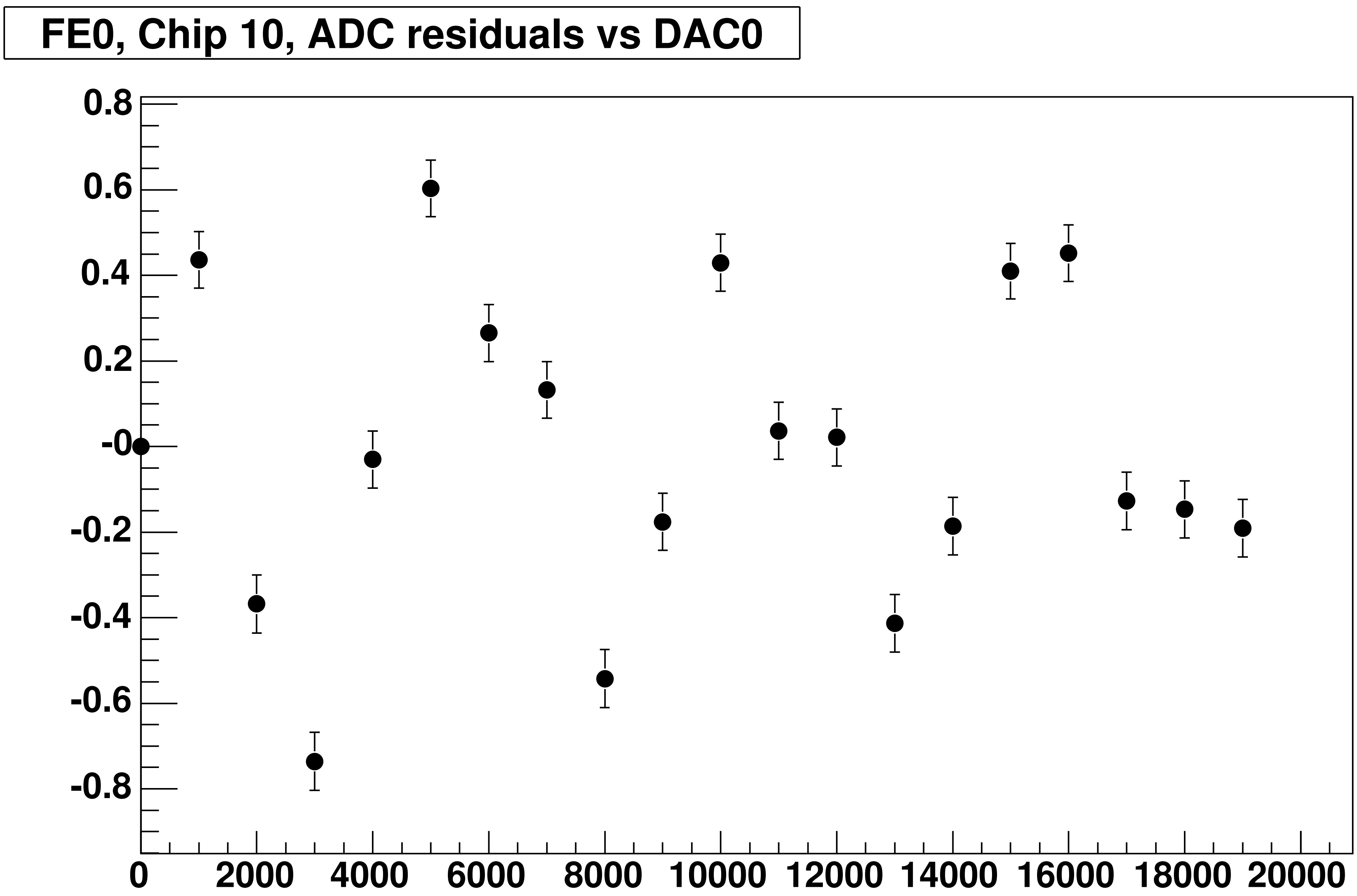

FE0, Chip 9, ADC noise vs DAC1
1.8
1.7
1.6
1.5
1.4
1.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

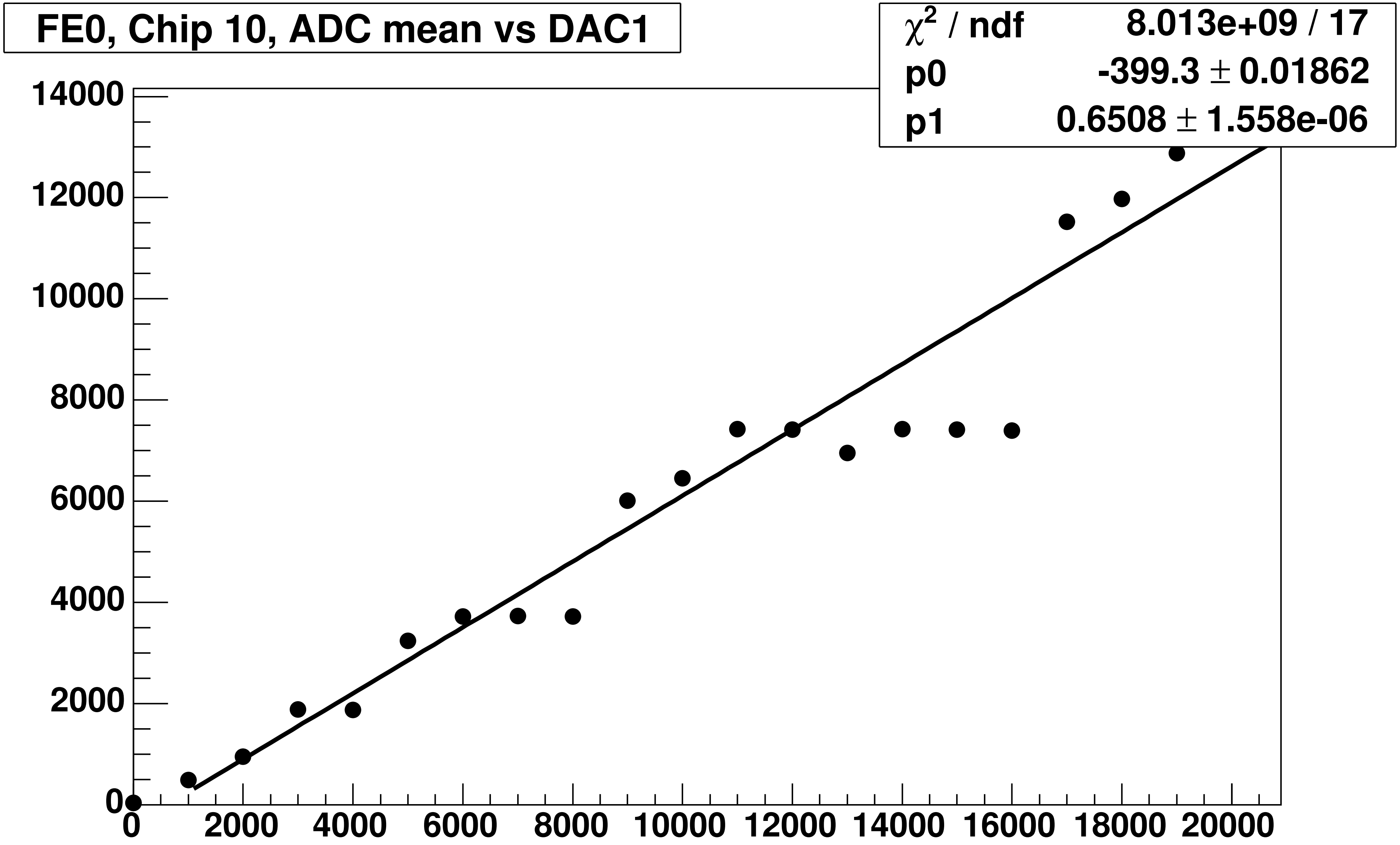


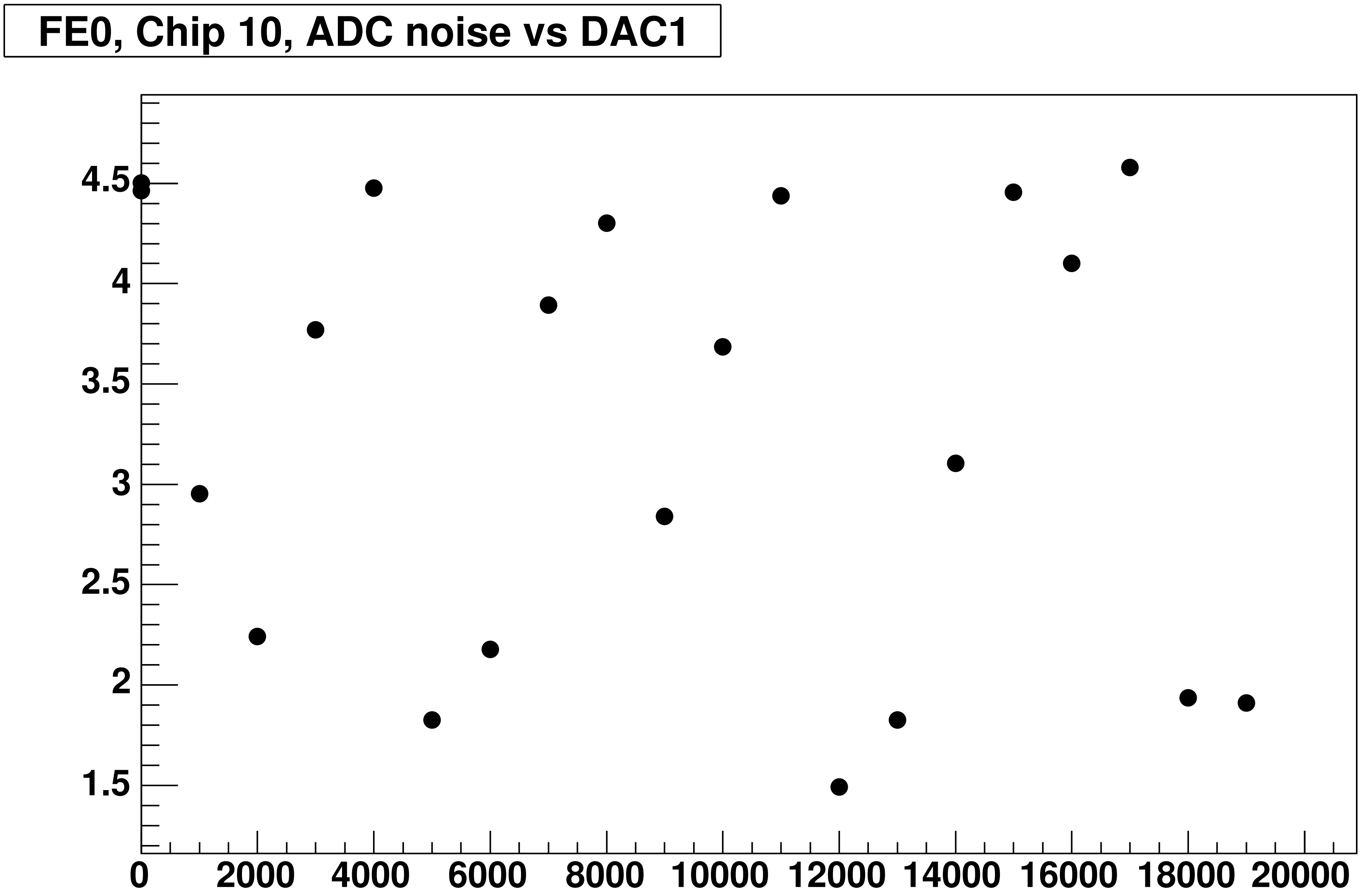
FE0, Chip 9, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

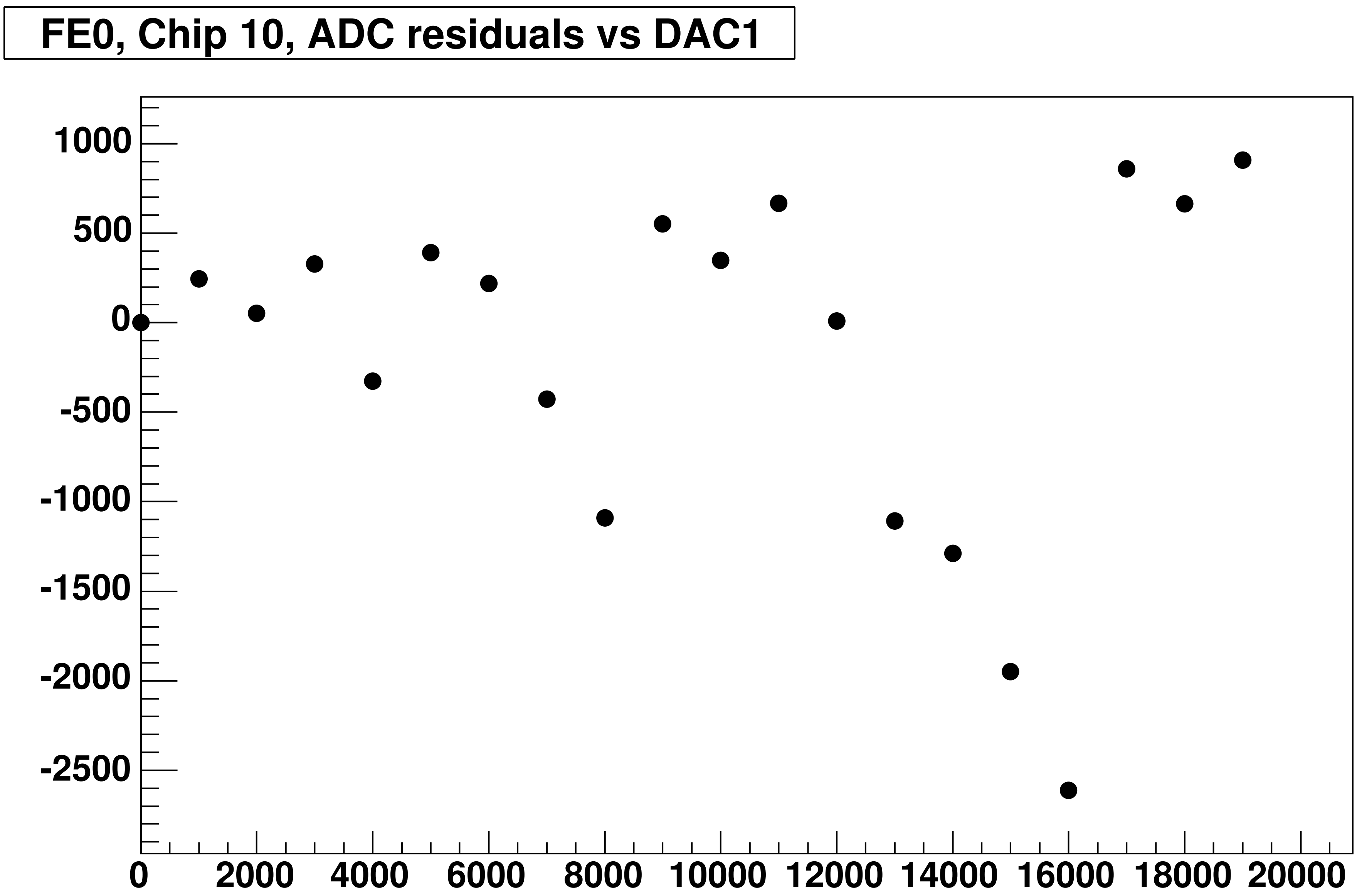

FE0, Chip 10, ADC mean vs DAC0
$\chi^2$ / ndf 554 / 17
p0 36.94 ± 0.03196
p1 2.498e-06 ± 2.8e-06
37.6
37.4
37.2
37
36.8
36.6
36.4
36.2
36
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE0, Chip 10, ADC noise vs DAC0
4.7
4.65
4.6
4.55
4.5
4.45
4.4
4.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

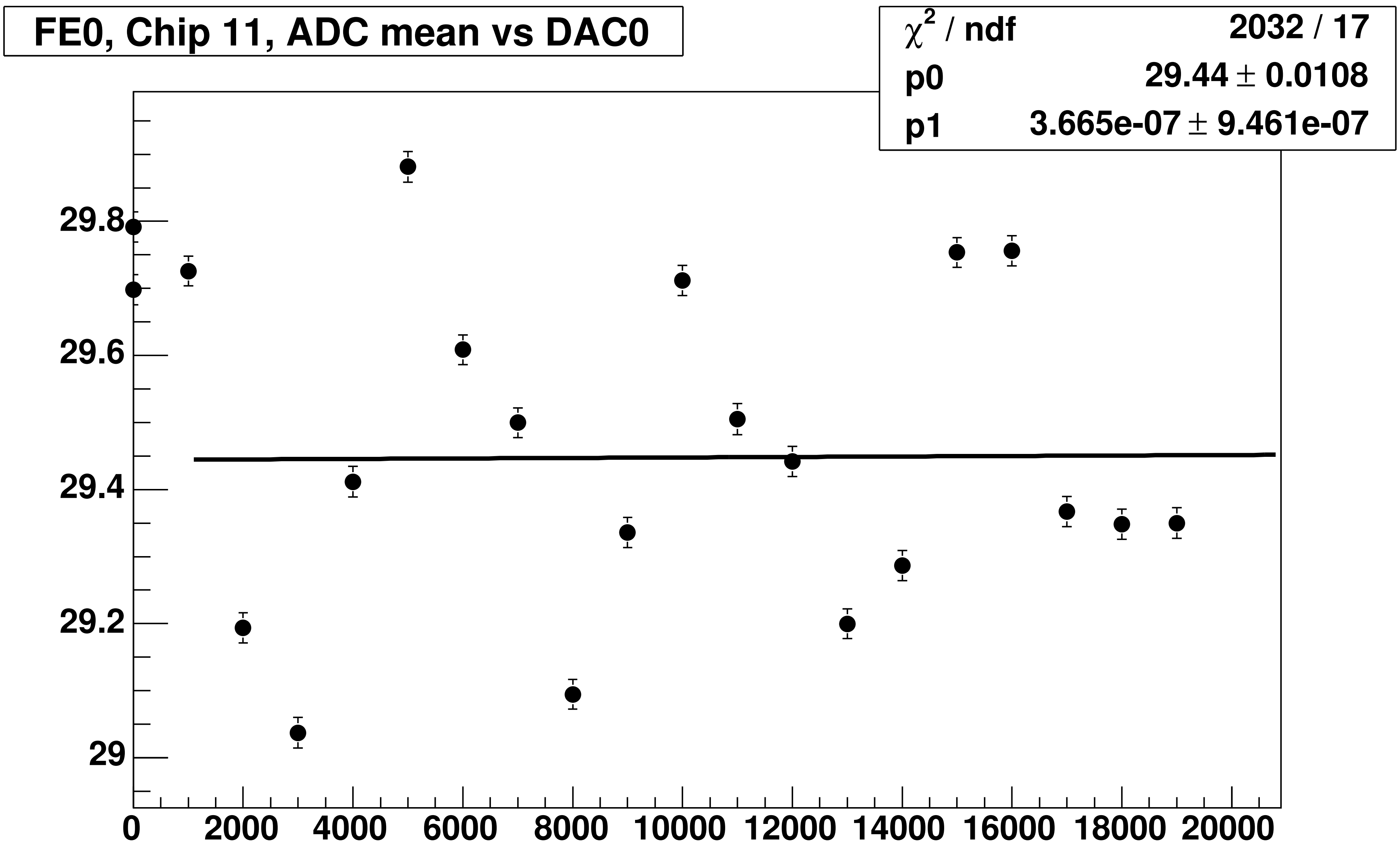

FE0, Chip 10, ADC residuals vs DAC0
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

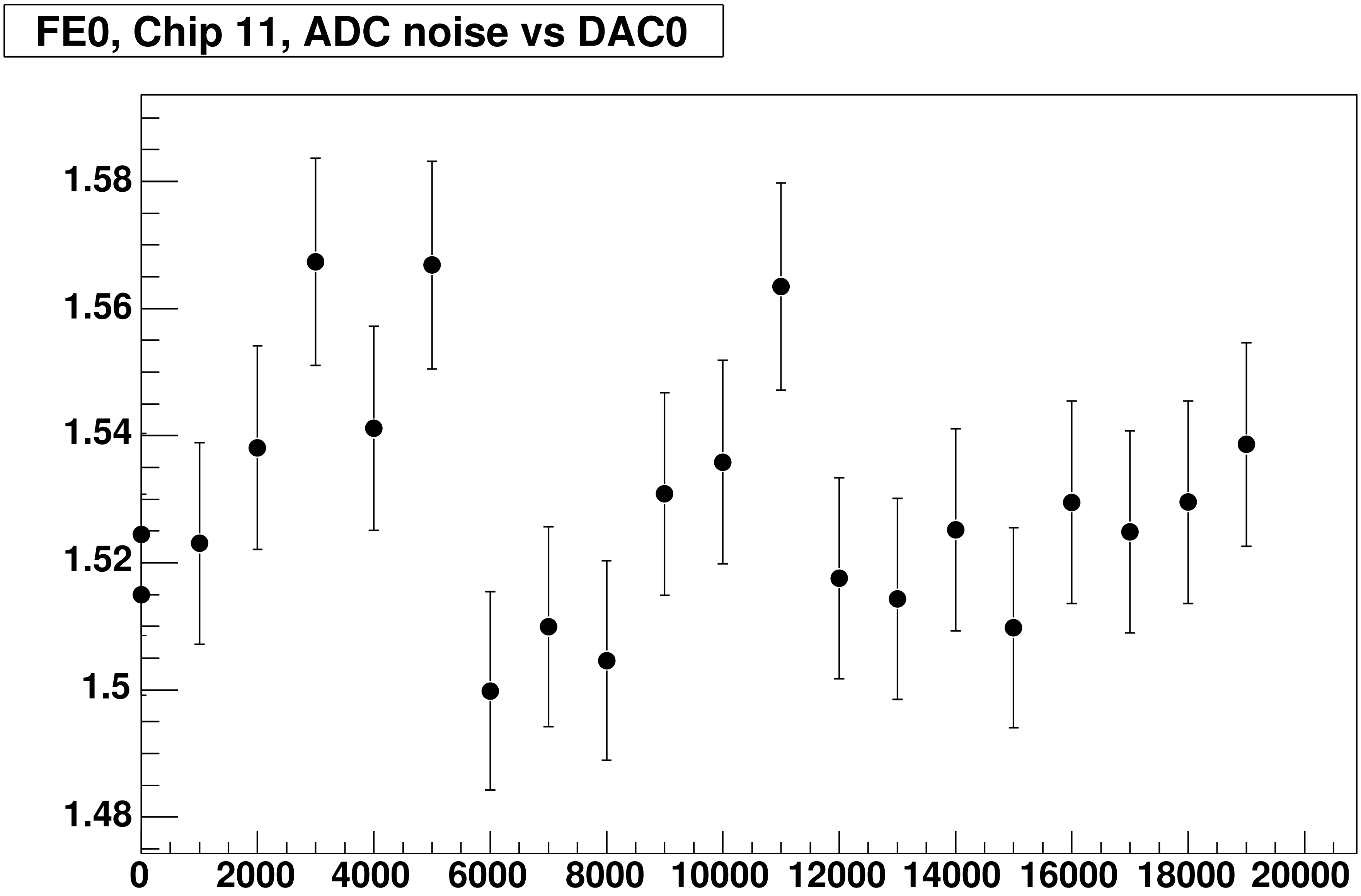

FE0, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 8.013e+09 / 17
p0 -399.3 ± 0.01862
p1 0.6508 ± 1.558e-06
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE0, Chip 10, ADC noise vs DAC1
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

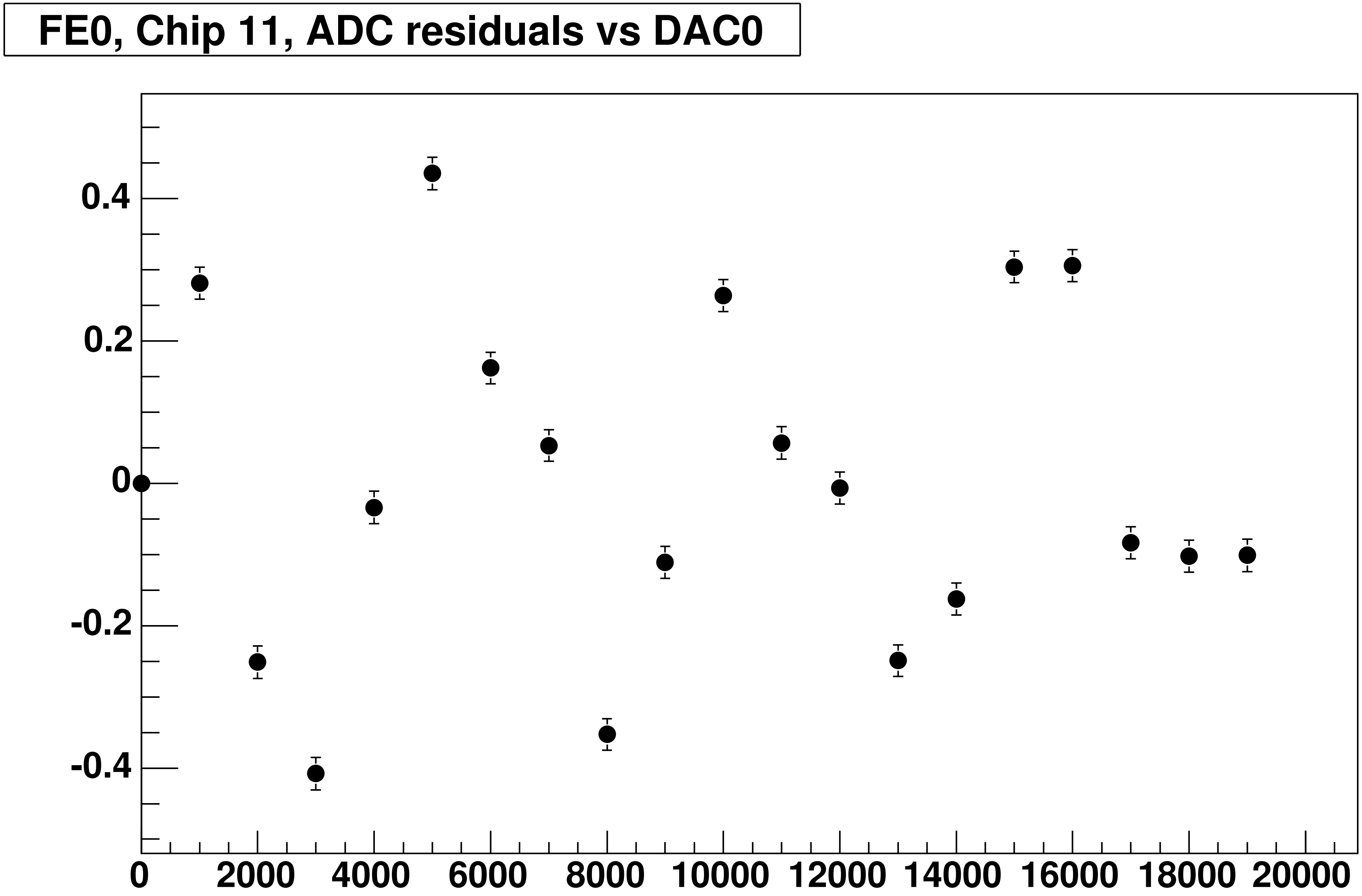


FE0, Chip 10, ADC residuals vs DAC1
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

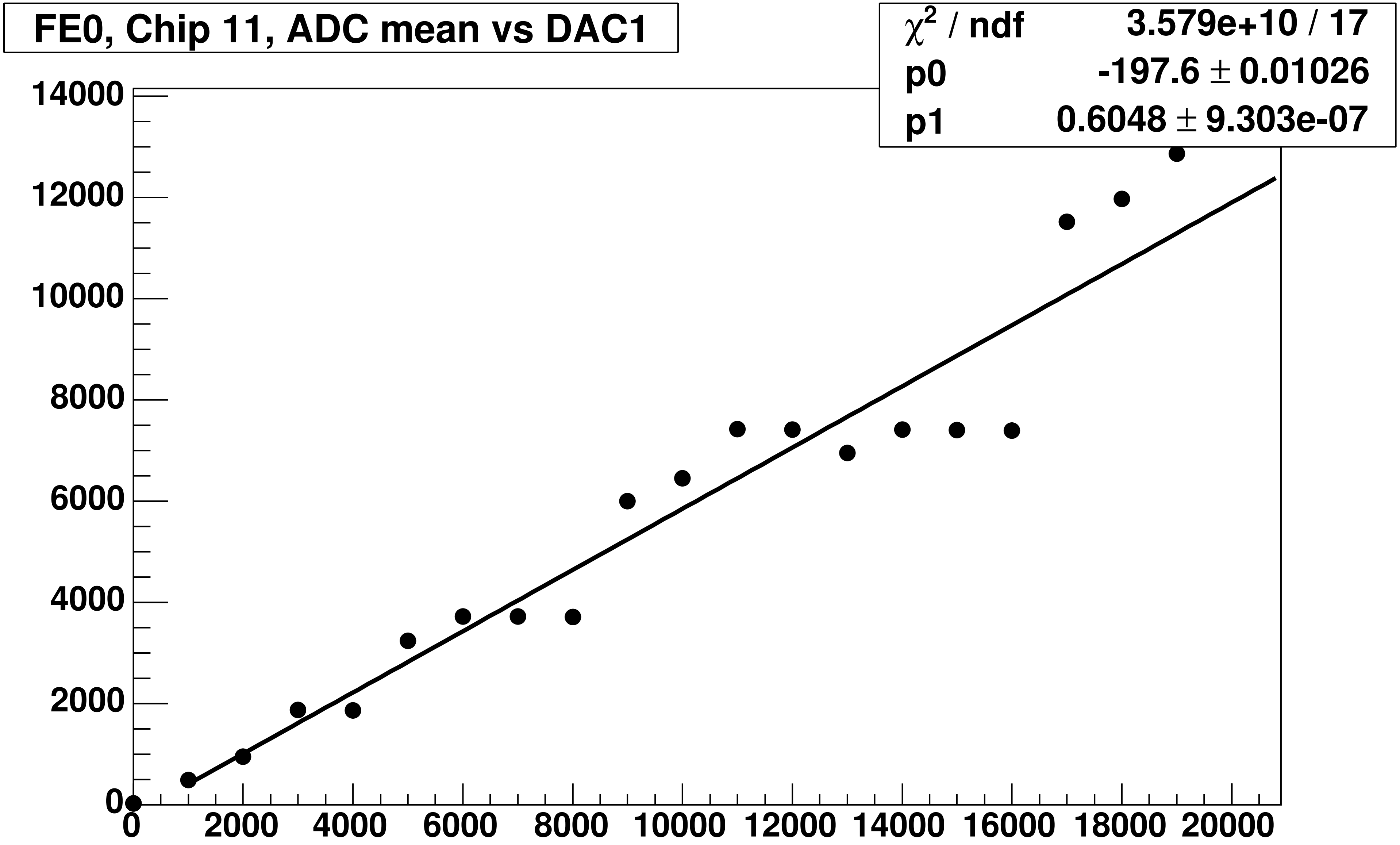

FE0, Chip 11, ADC mean vs DAC0
$\chi^2$ / ndf 2032 / 17
p0 29.44 ± 0.0108
p1 3.665e-07 ± 9.461e-07
29
29.2
29.4
29.6
29.8
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



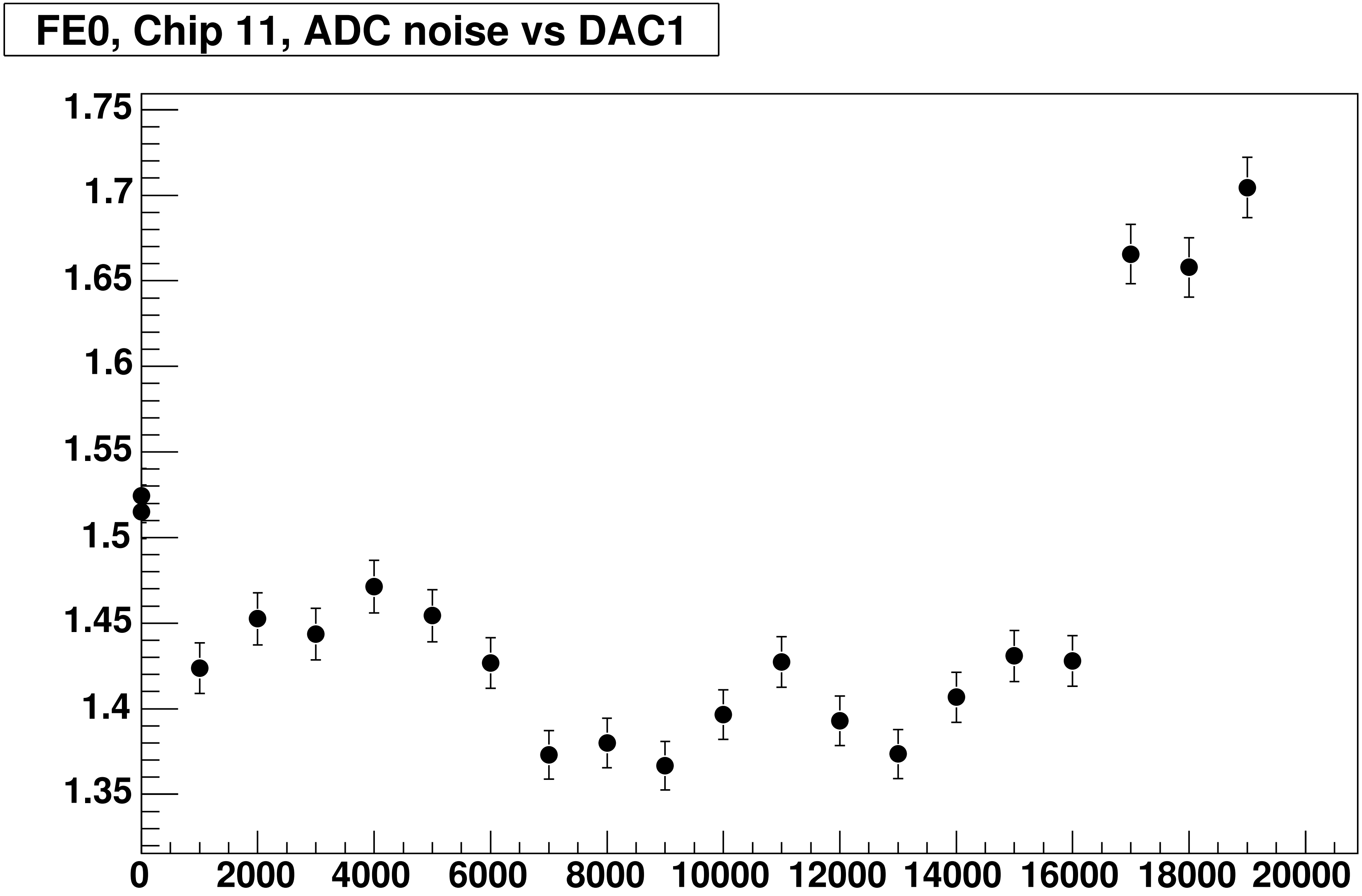
FE0, Chip 11, ADC noise vs DAC0
1.58
1.56
1.54
1.52
1.5
1.48
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



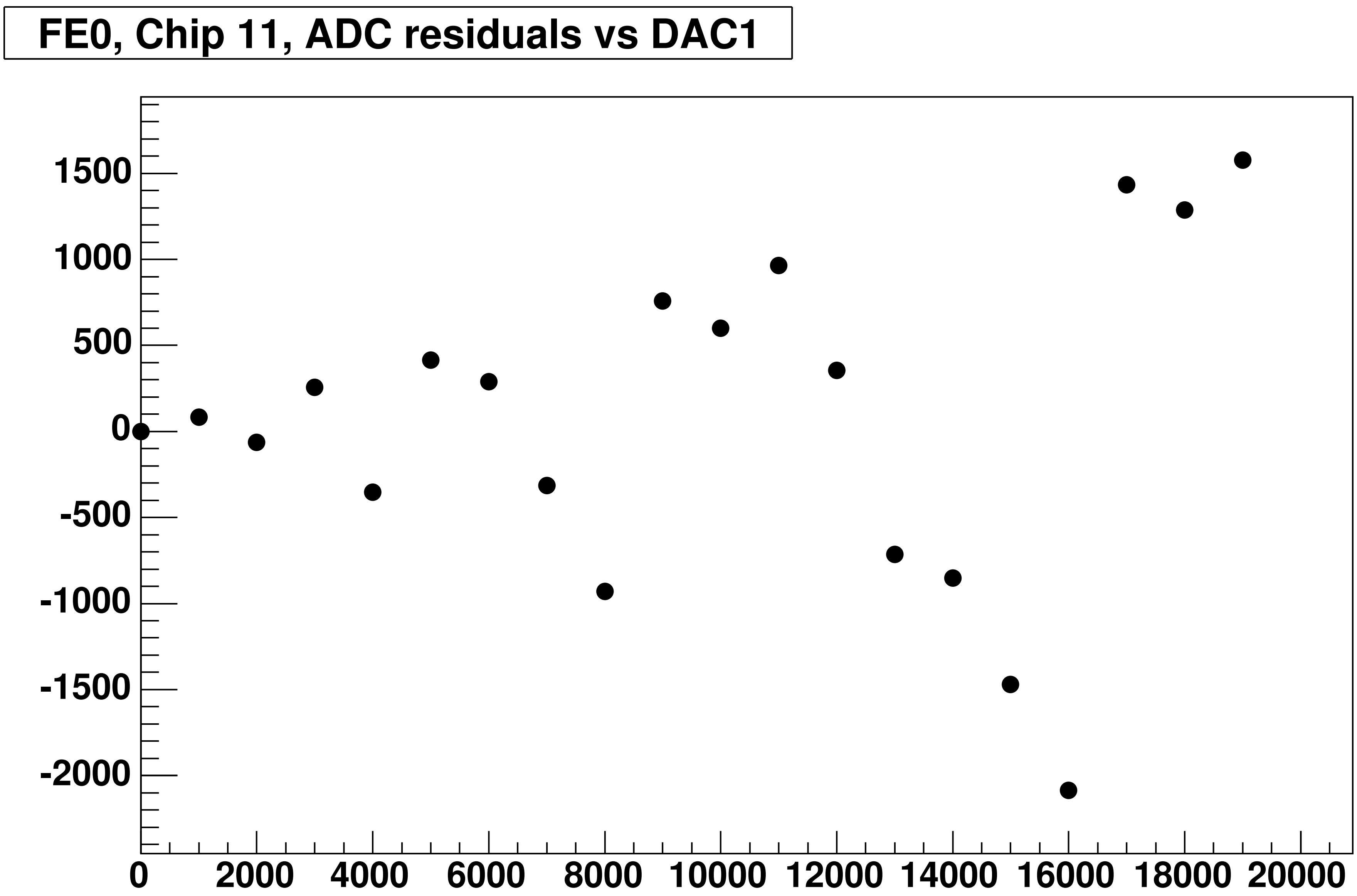
FE0, Chip 11, ADC residuals vs DAC0
0.4
0.2
0
-0.2
-0.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

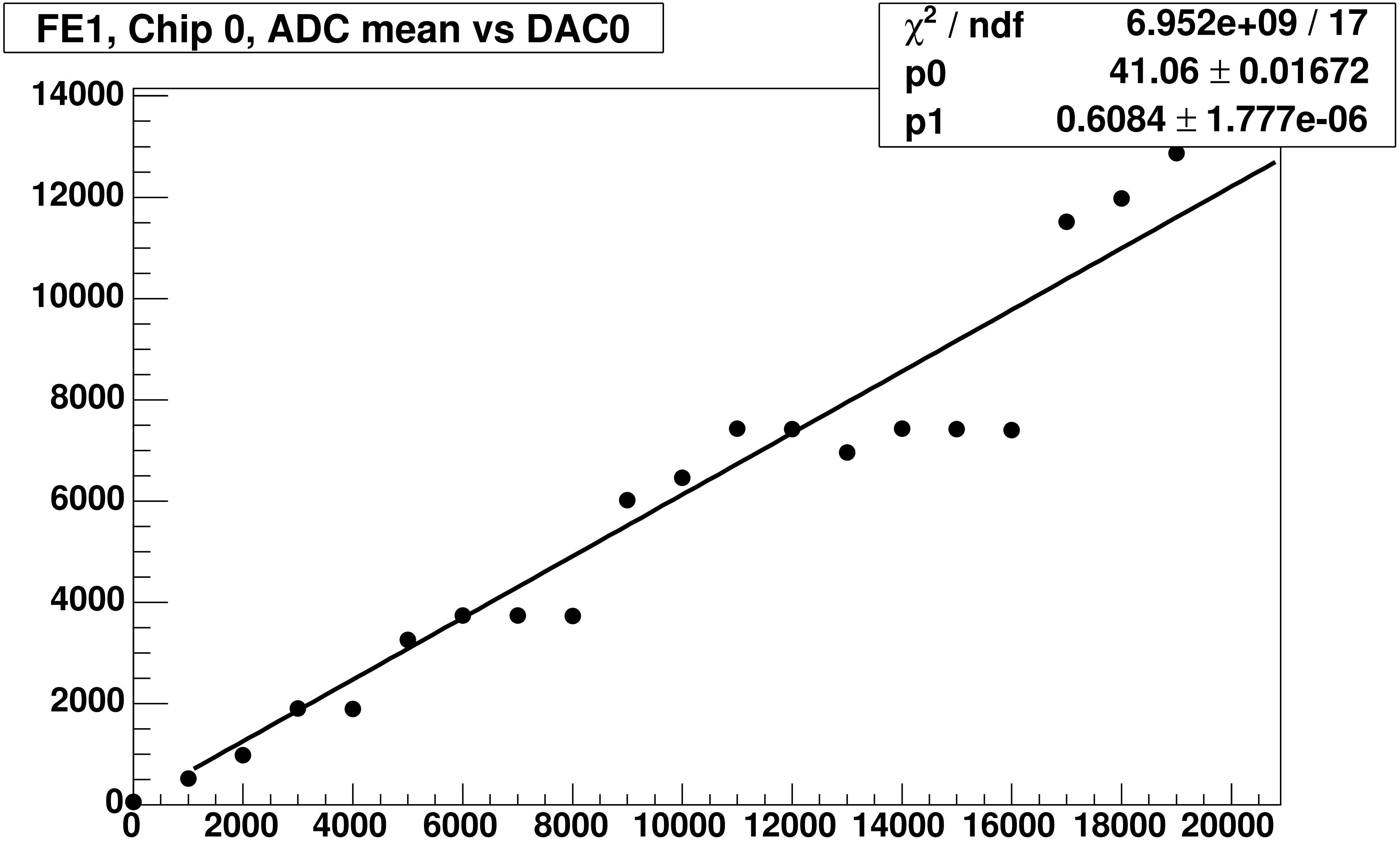


FE0, Chip 11, ADC mean vs DAC1
χ2 / ndf 3.579e+10 / 17
p0 -197.6 ± 0.01026
p1 0.6048 ± 9.303e-07
14000
12000
10000
8000
6000
4000
2000
0
0 2000 4000 6000 8000 10000 12000 14000 16000 18000 20000

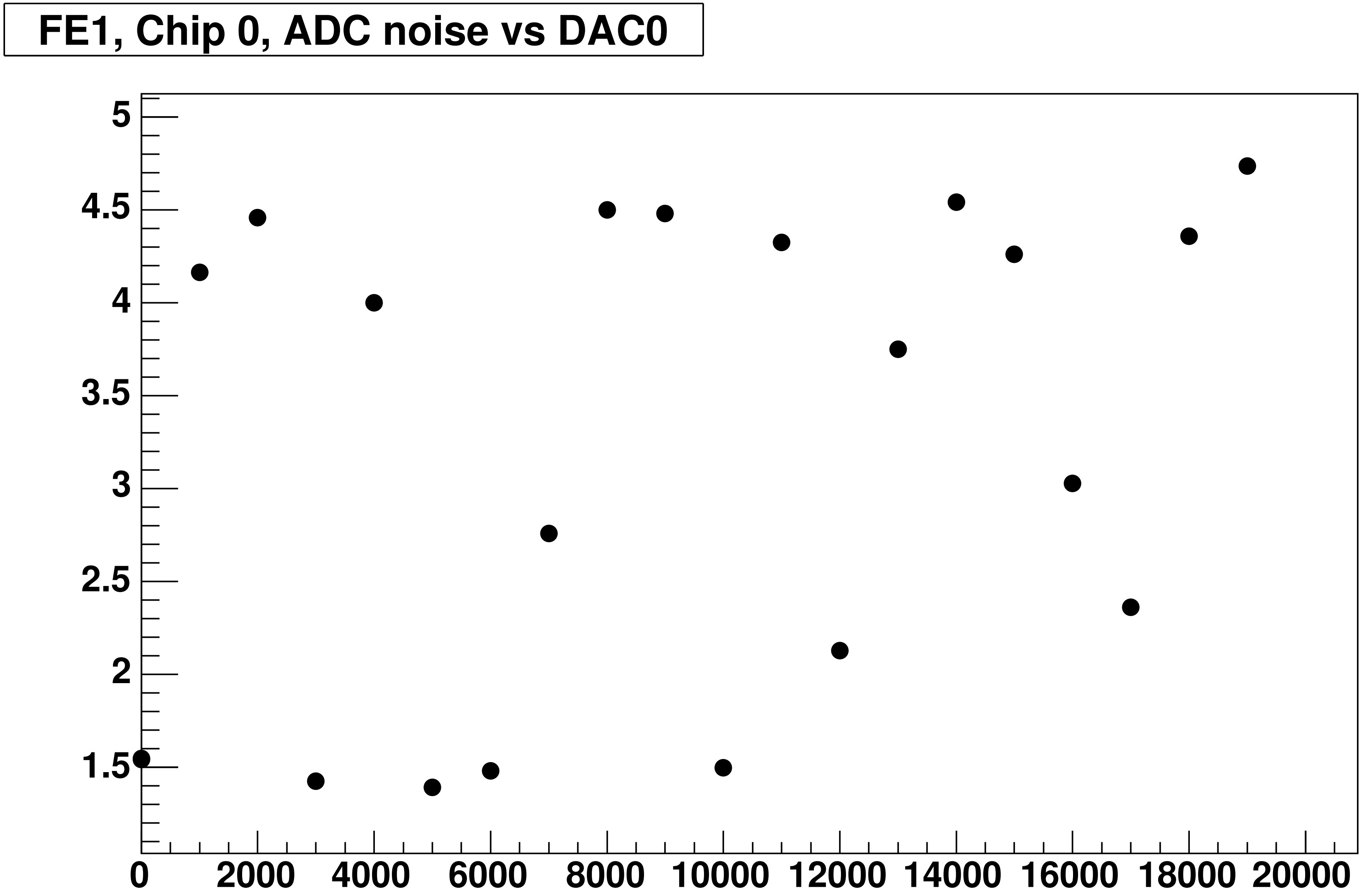


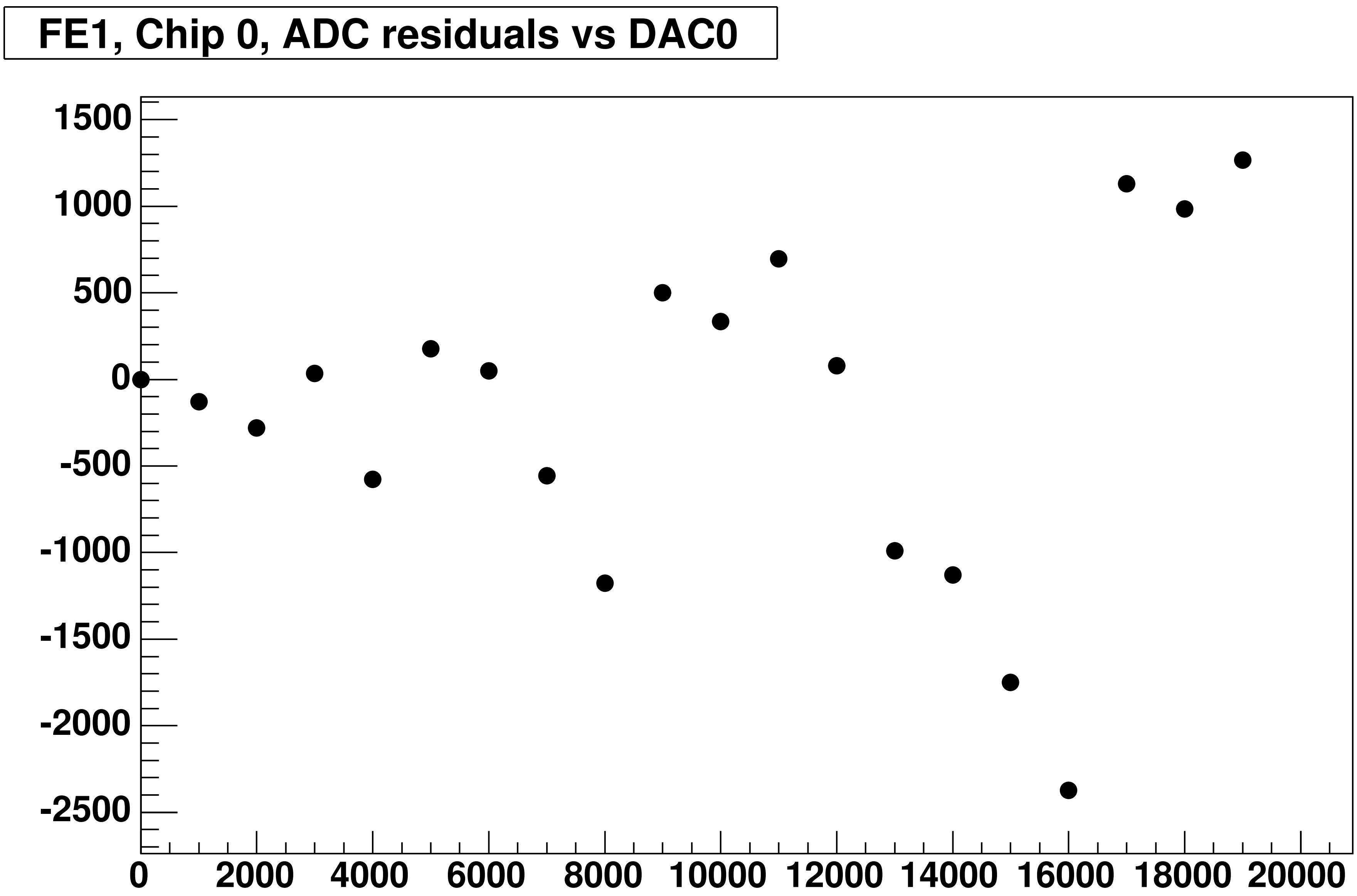
FE0, Chip 11, ADC noise vs DAC1
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

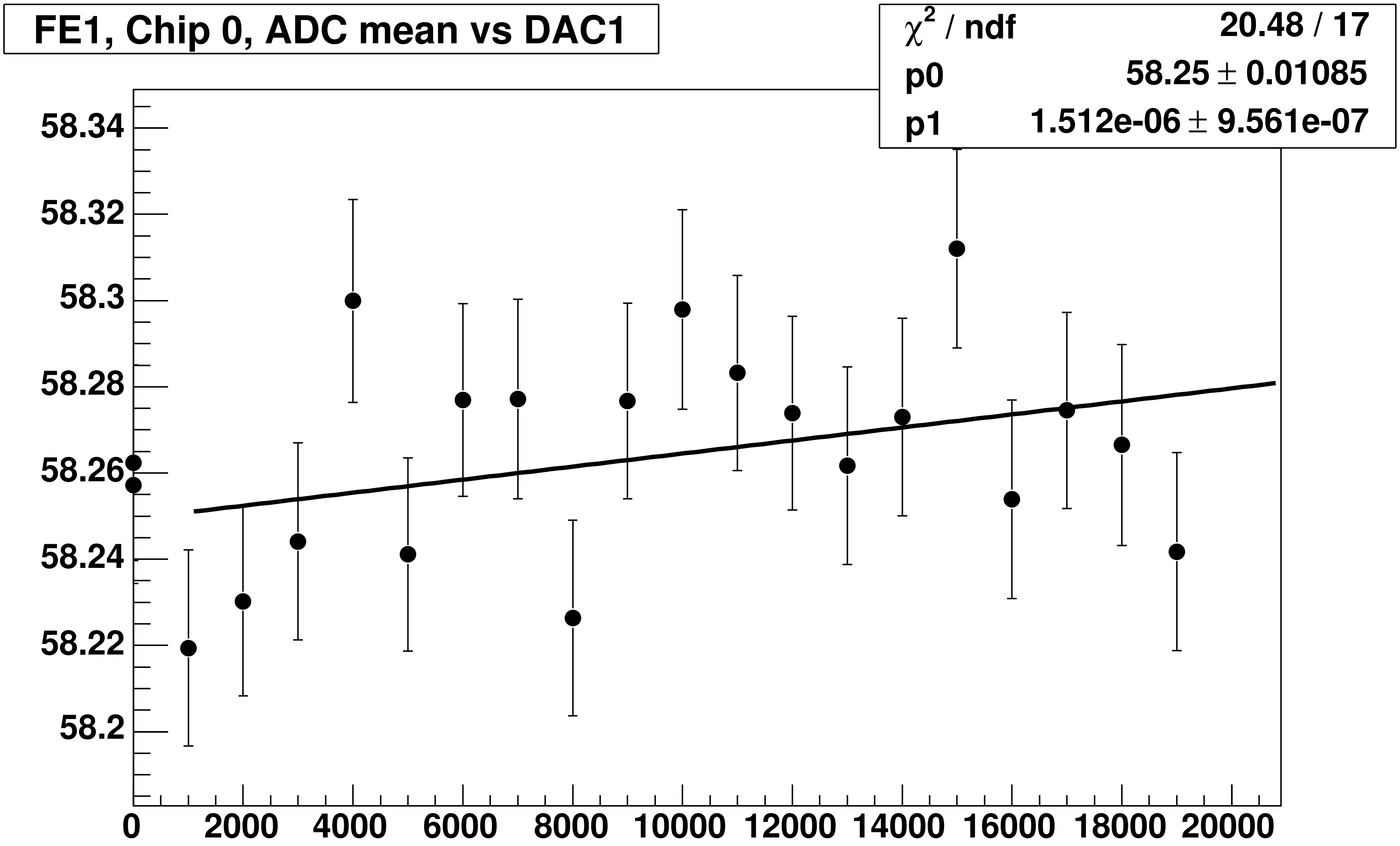

FE0, Chip 11, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



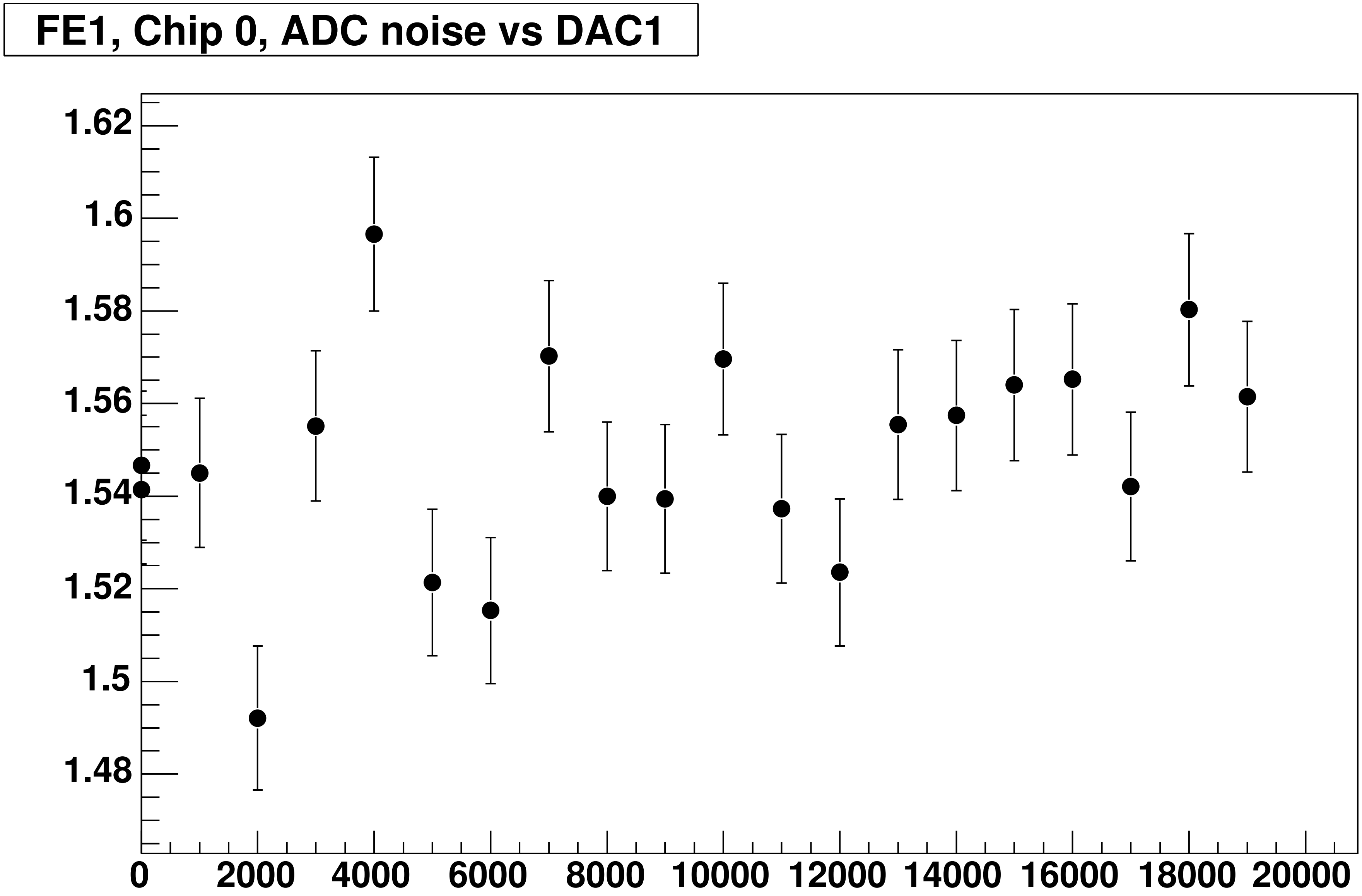
FE1, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 6.952e+09 / 17
p0 41.06 ± 0.01672
p1 0.6084 ± 1.777e-06
0
2000
4000
6000
8000
10000
12000
14000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE1, Chip 0, ADC noise vs DAC0
5
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

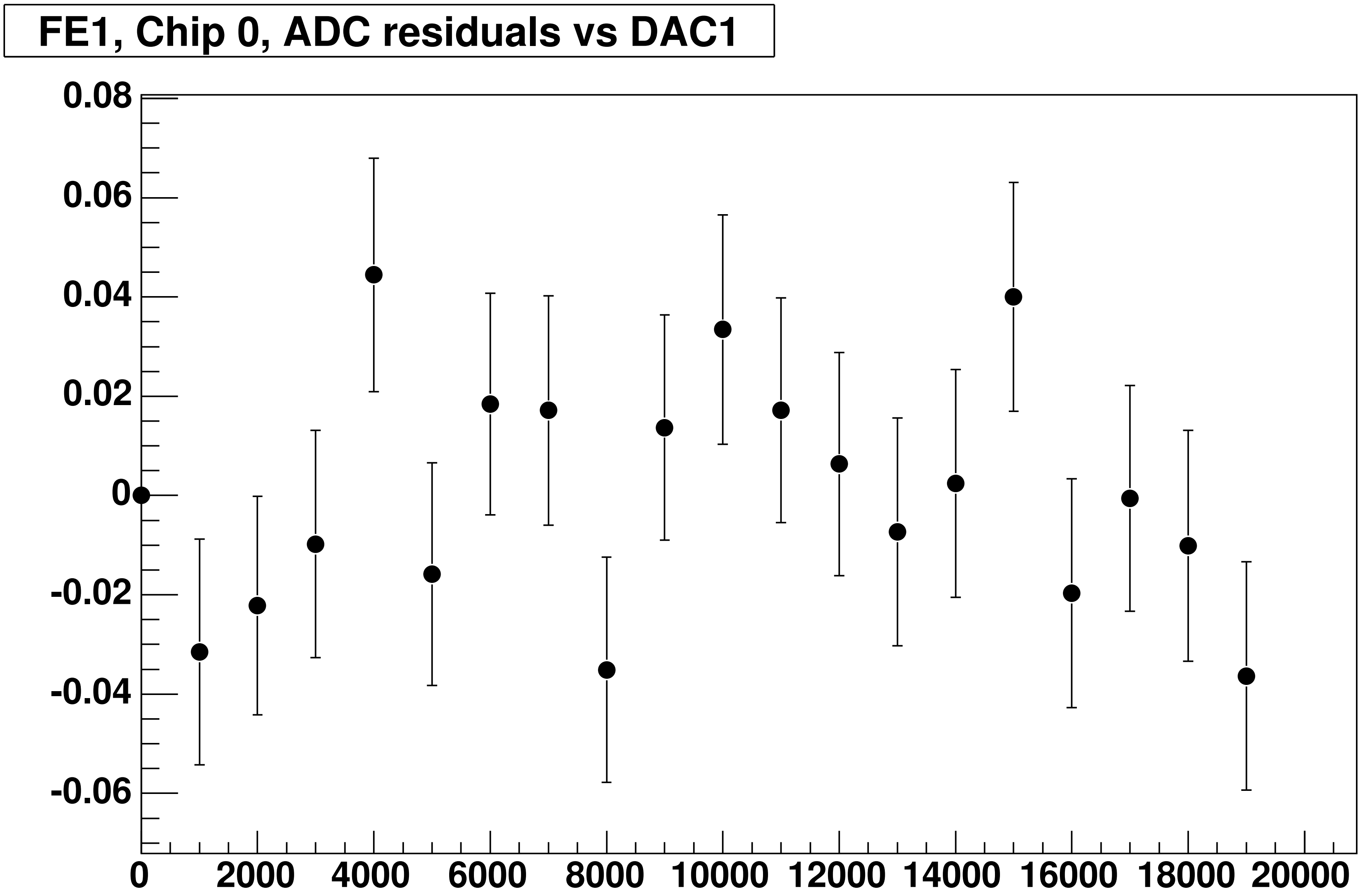

FE1, Chip 0, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

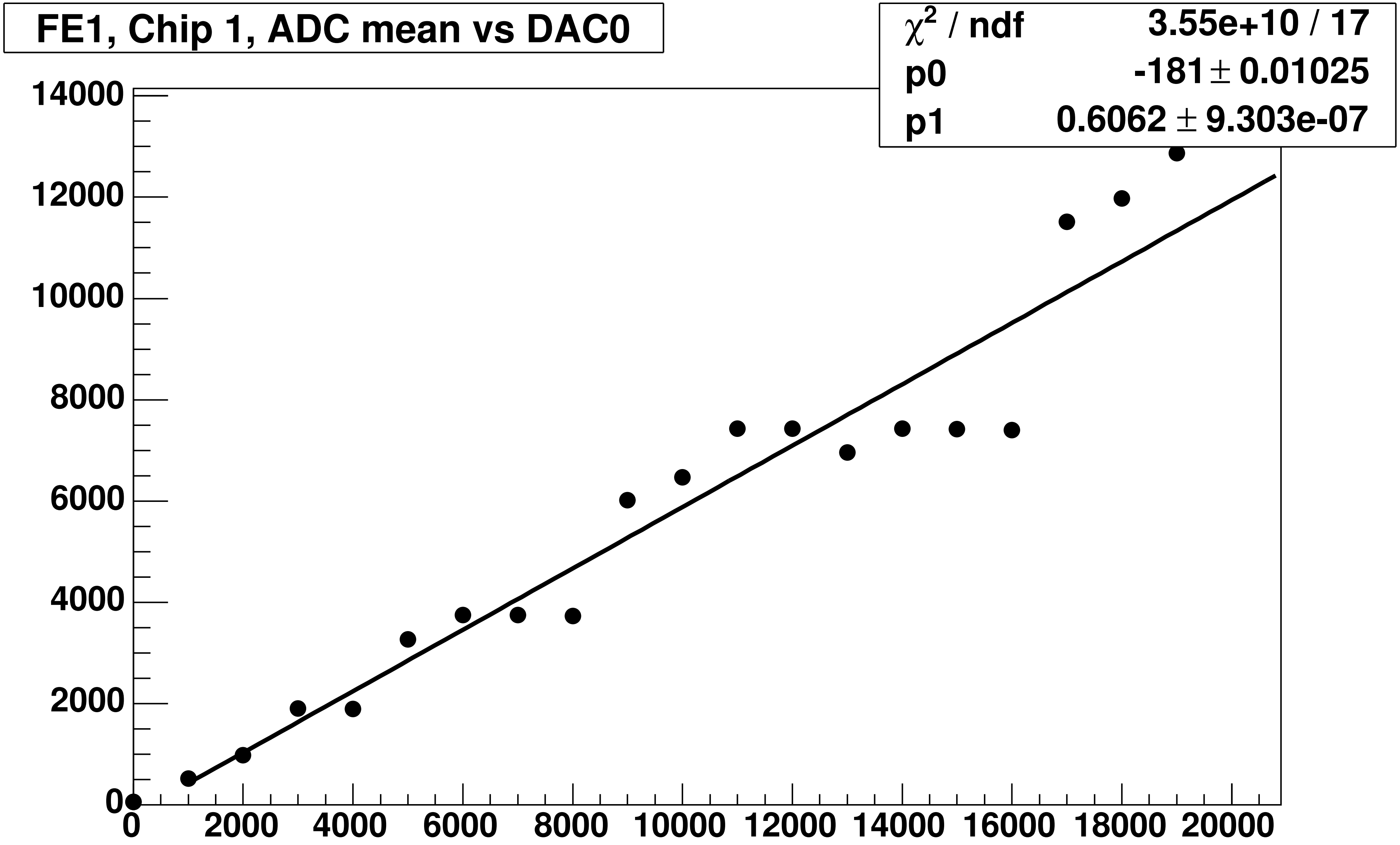


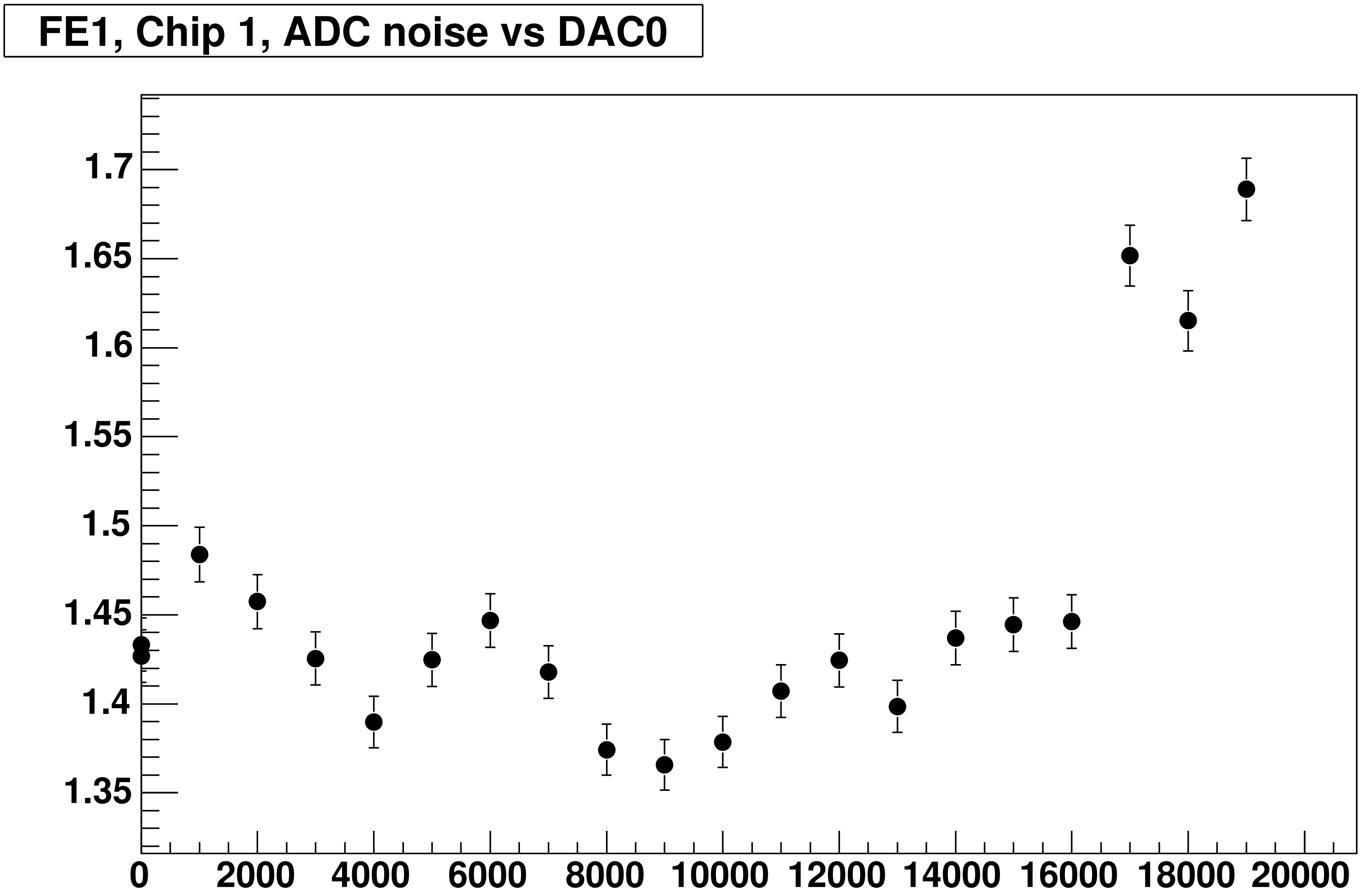
FE1, Chip 0, ADC mean vs DAC1
$\chi^2$ / ndf 20.48 / 17
p0 58.25 ± 0.01085
p1 1.512e-06 ± 9.561e-07
58.34
58.32
58.3
58.28
58.26
58.24
58.22
58.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

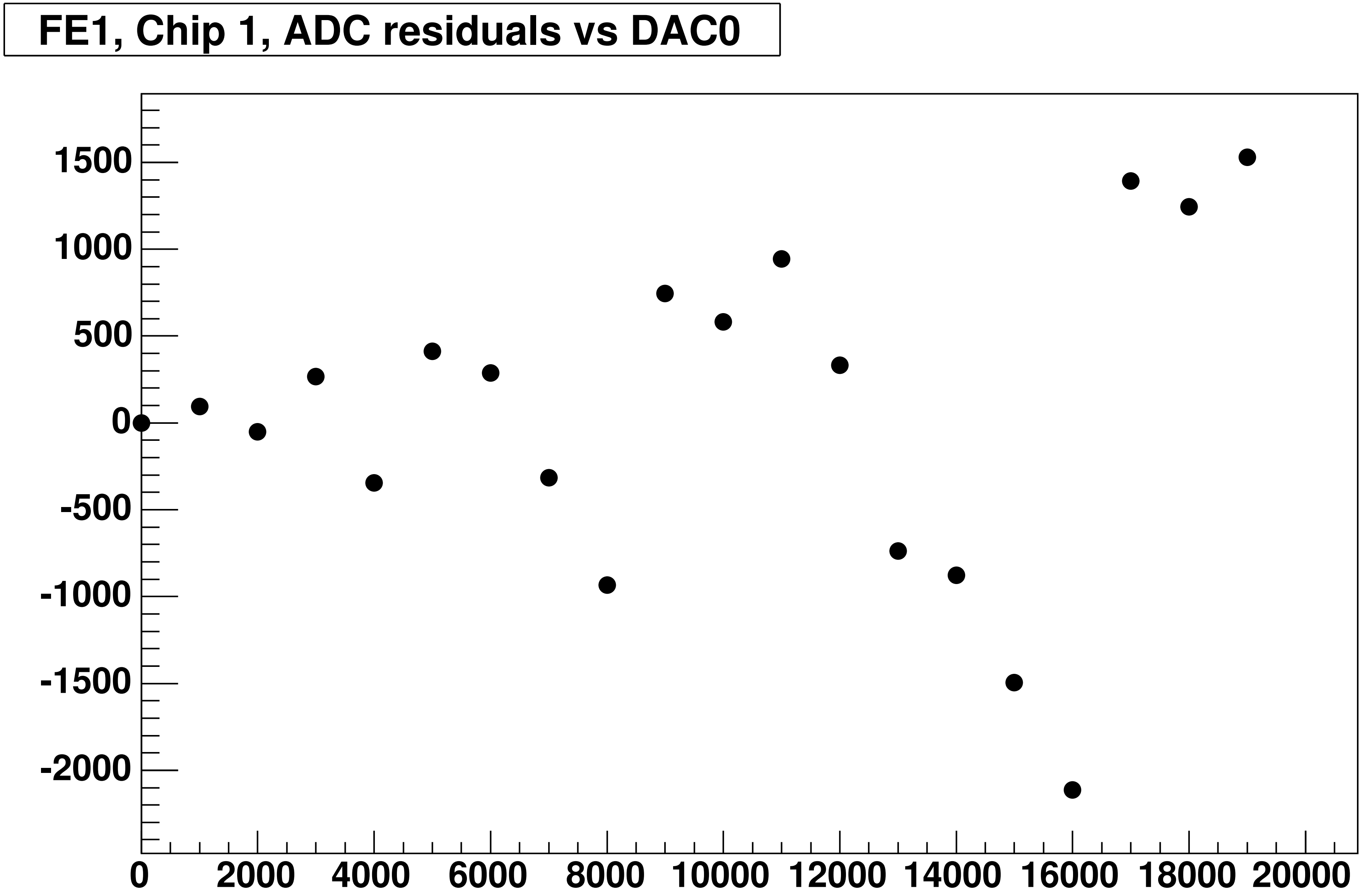


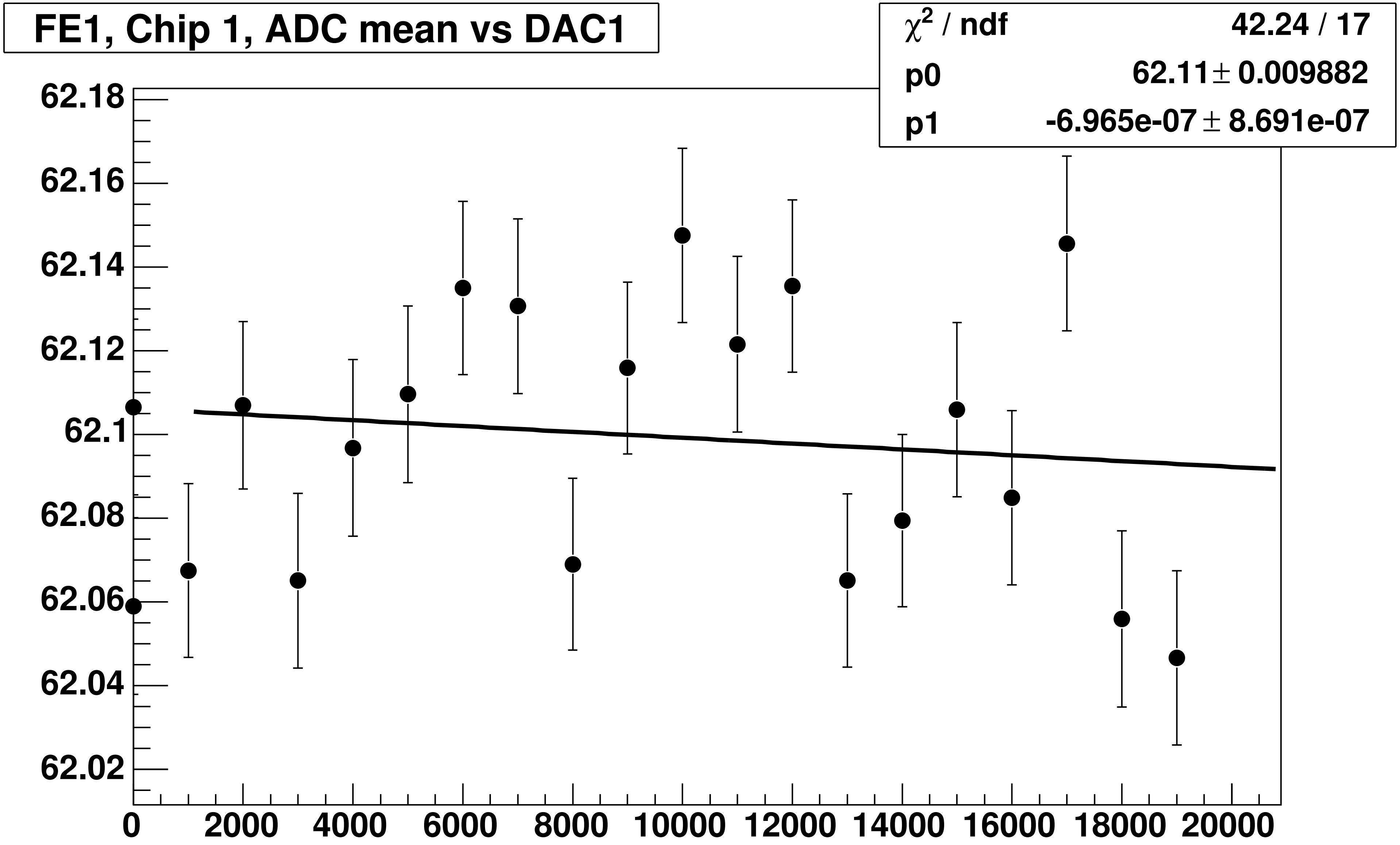
FE1, Chip 0, ADC noise vs DAC1
1.62
1.6
1.58
1.56
1.54
1.52
1.5
1.48
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE1, Chip 0, ADC residuals vs DAC1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

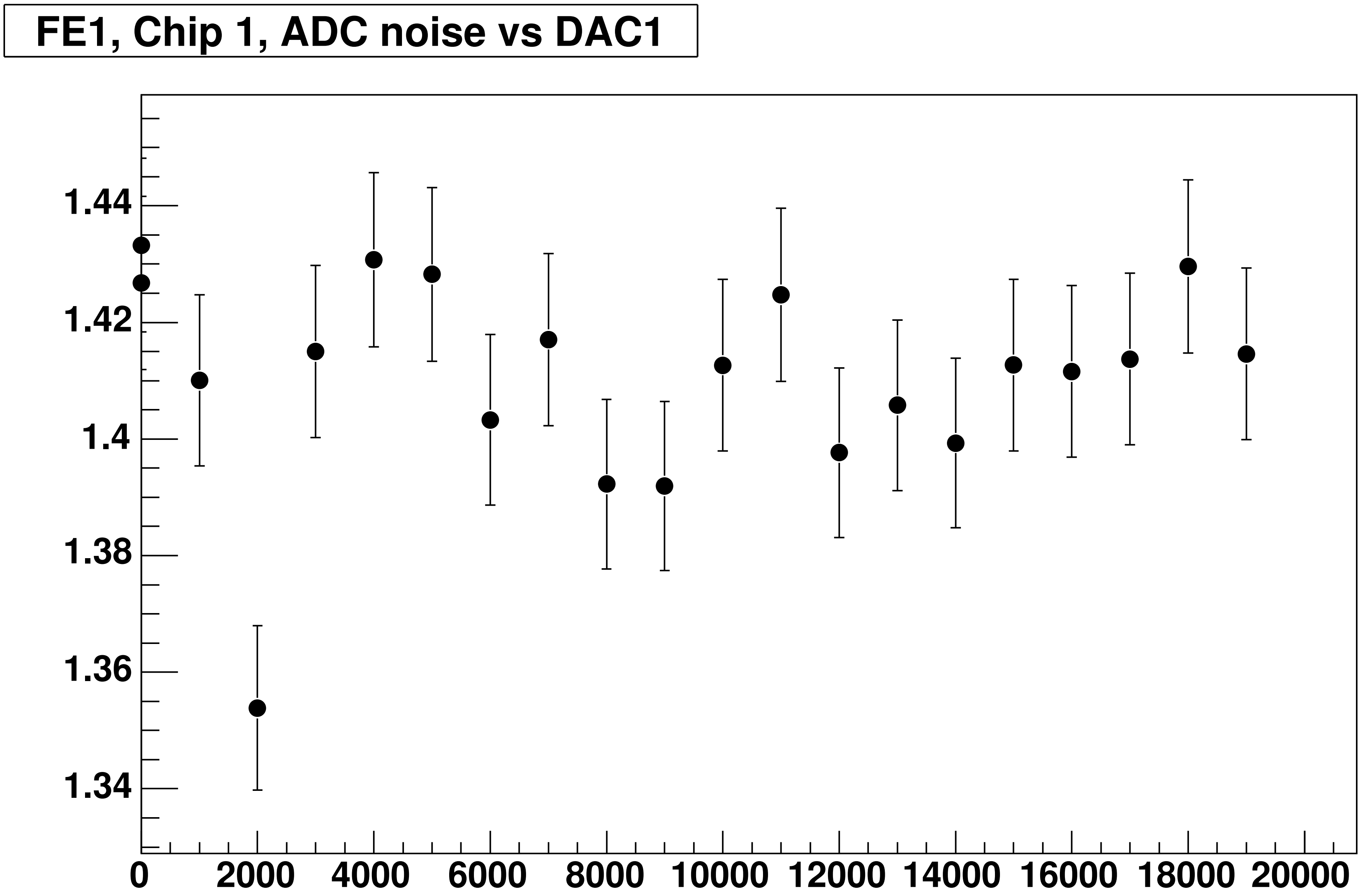

FE1, Chip 1, ADC mean vs DAC0
$\chi^2$ / ndf 3.55e+10 / 17
p0 -181 ± 0.01025
p1 0.6062 ± 9.303e-07
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

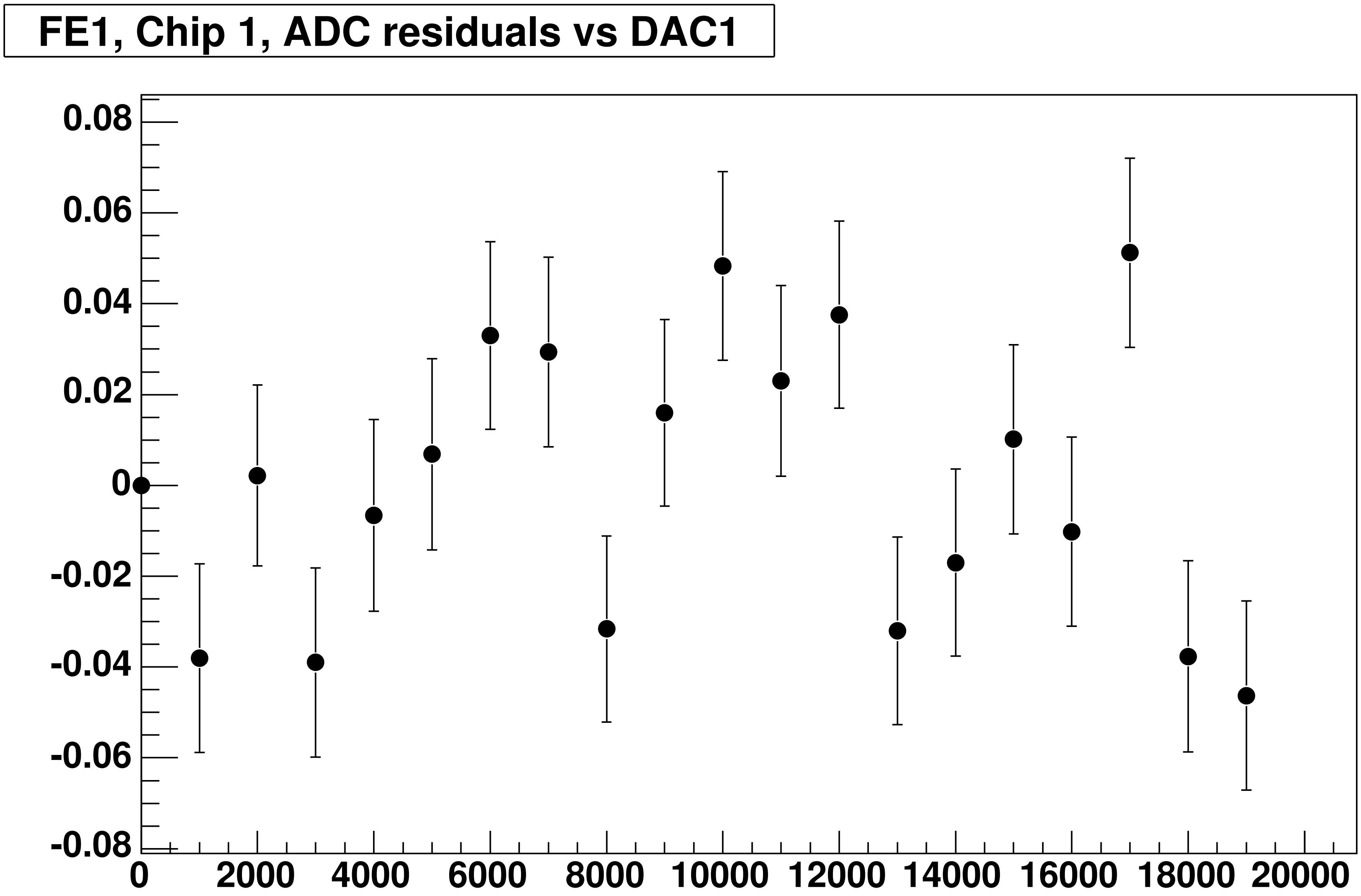

FE1, Chip 1, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

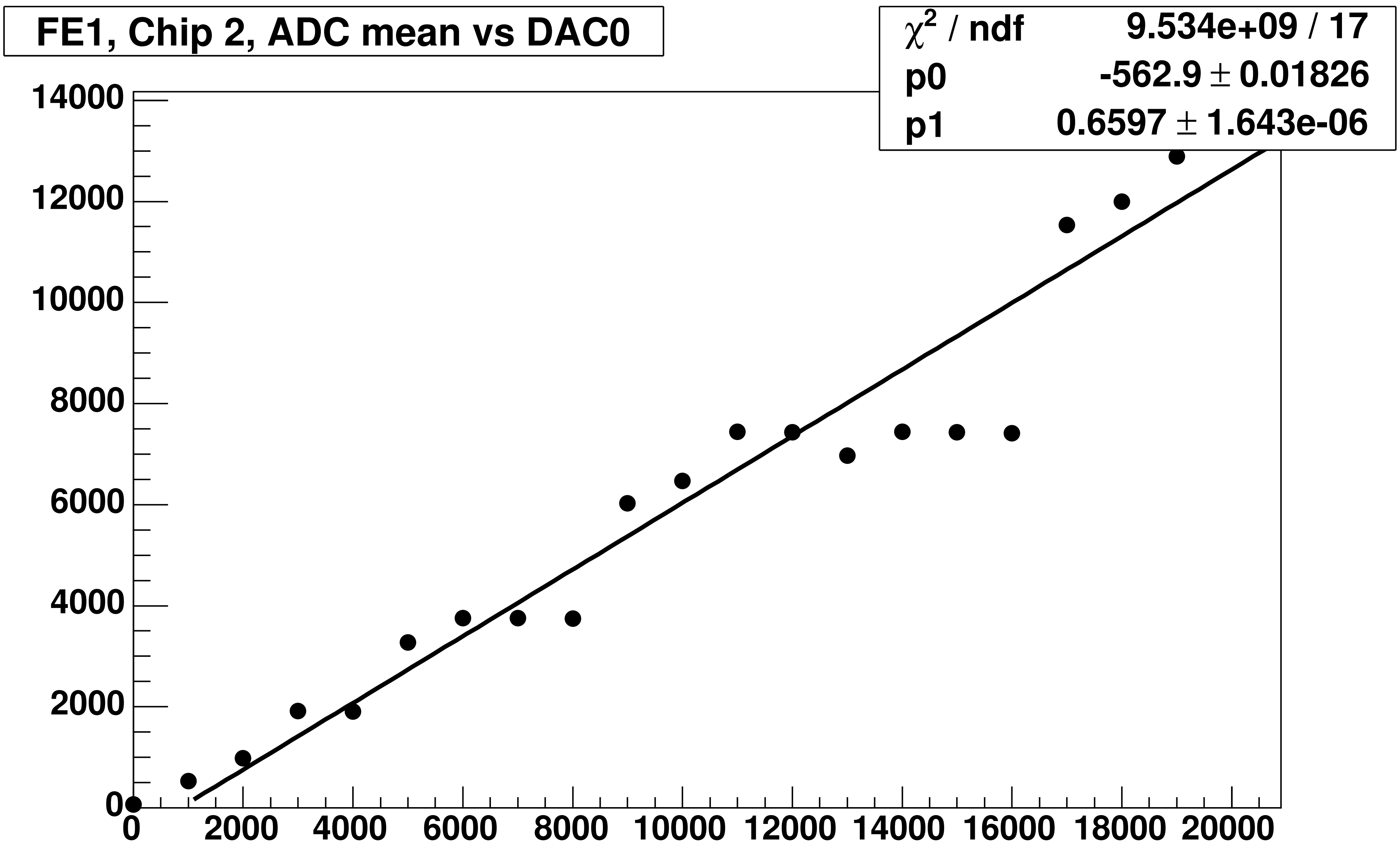

FE1, Chip 1, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

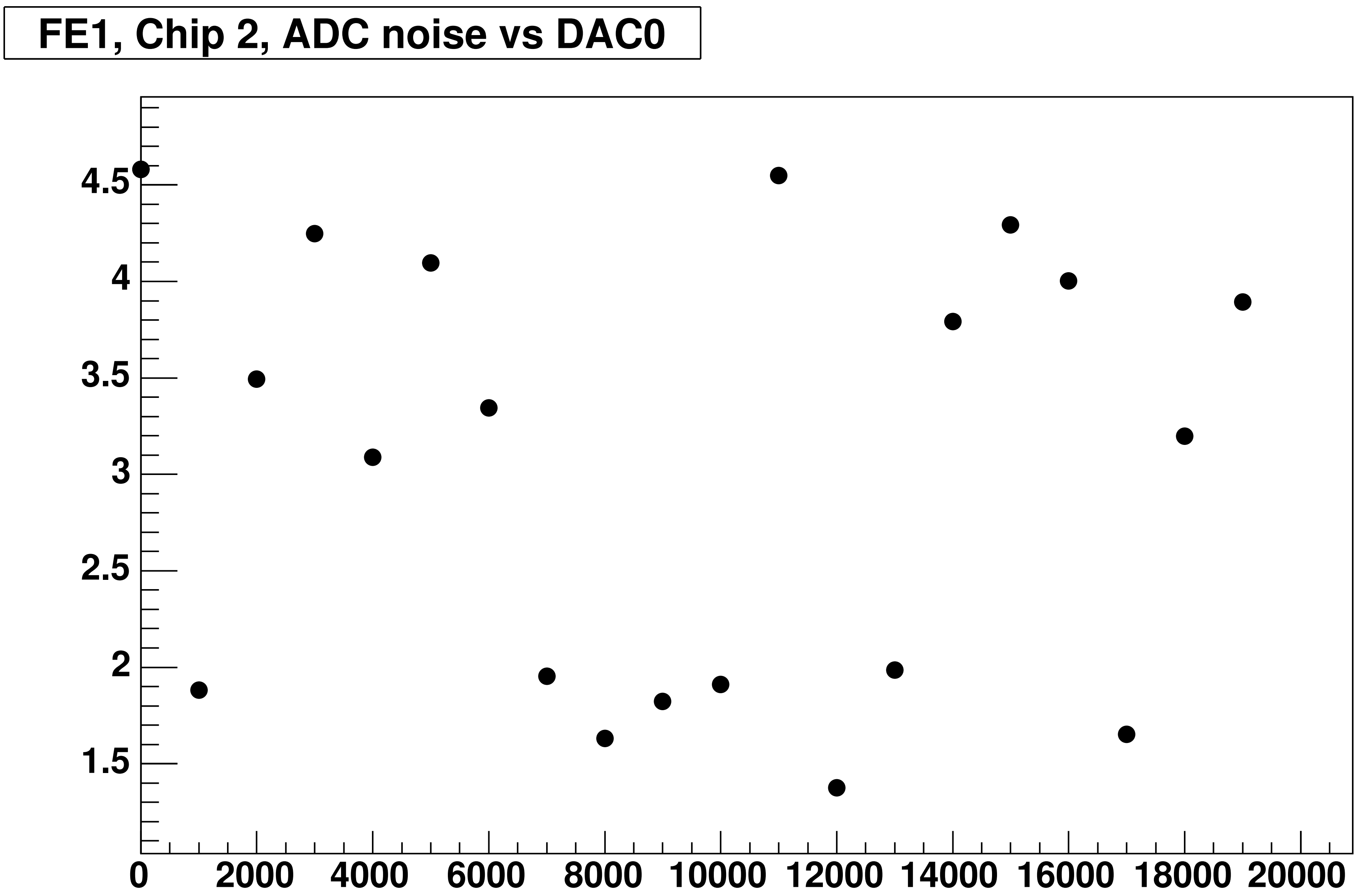


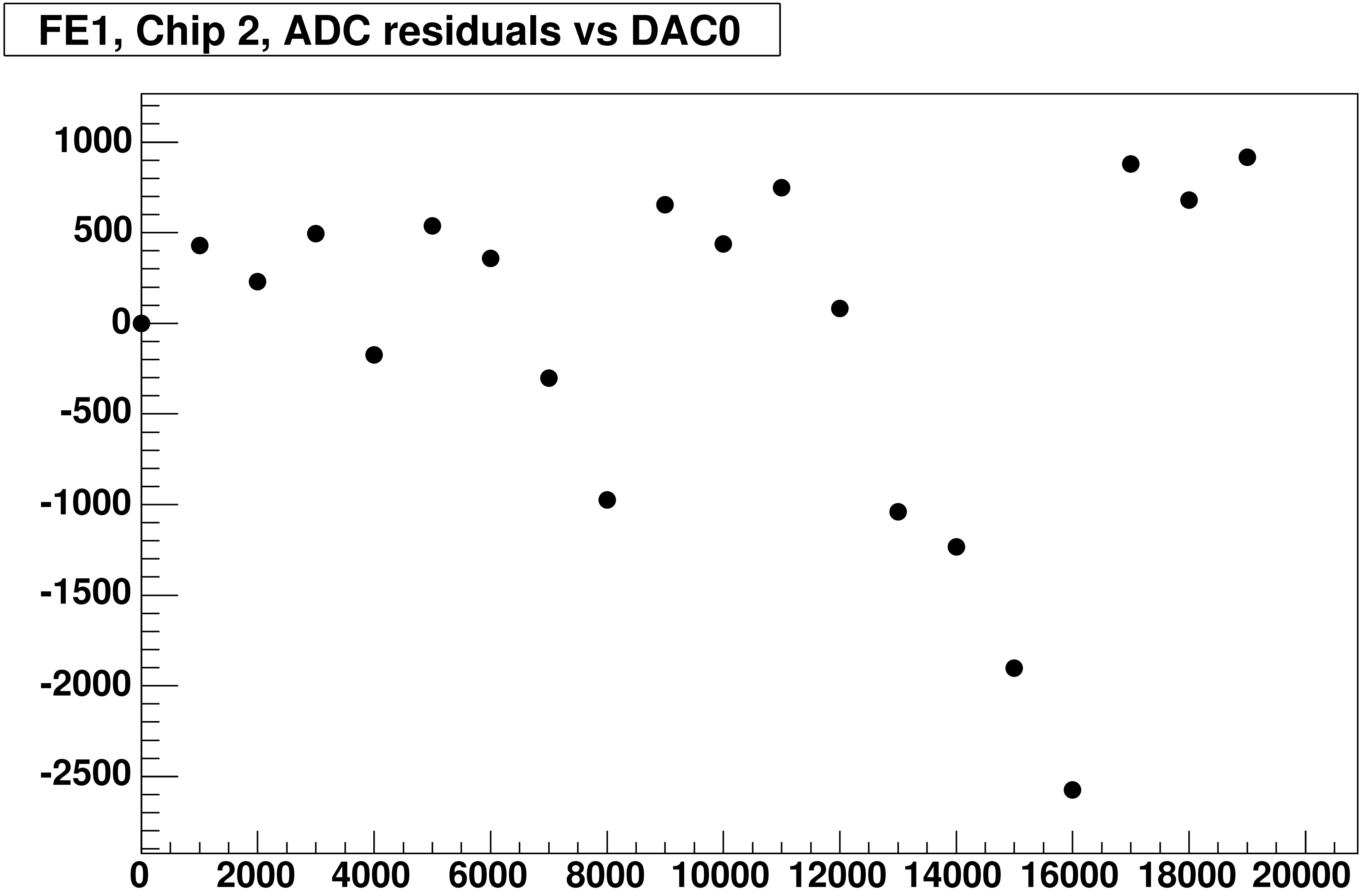
FE1, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 42.24 / 17
p0 62.11 ± 0.009882
p1 -6.965e-07 ± 8.691e-07
62.18
62.16
62.14
62.12
62.1
62.08
62.06
62.04
62.02
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE1, Chip 1, ADC noise vs DAC1
1.44
1.42
1.4
1.38
1.36
1.34
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

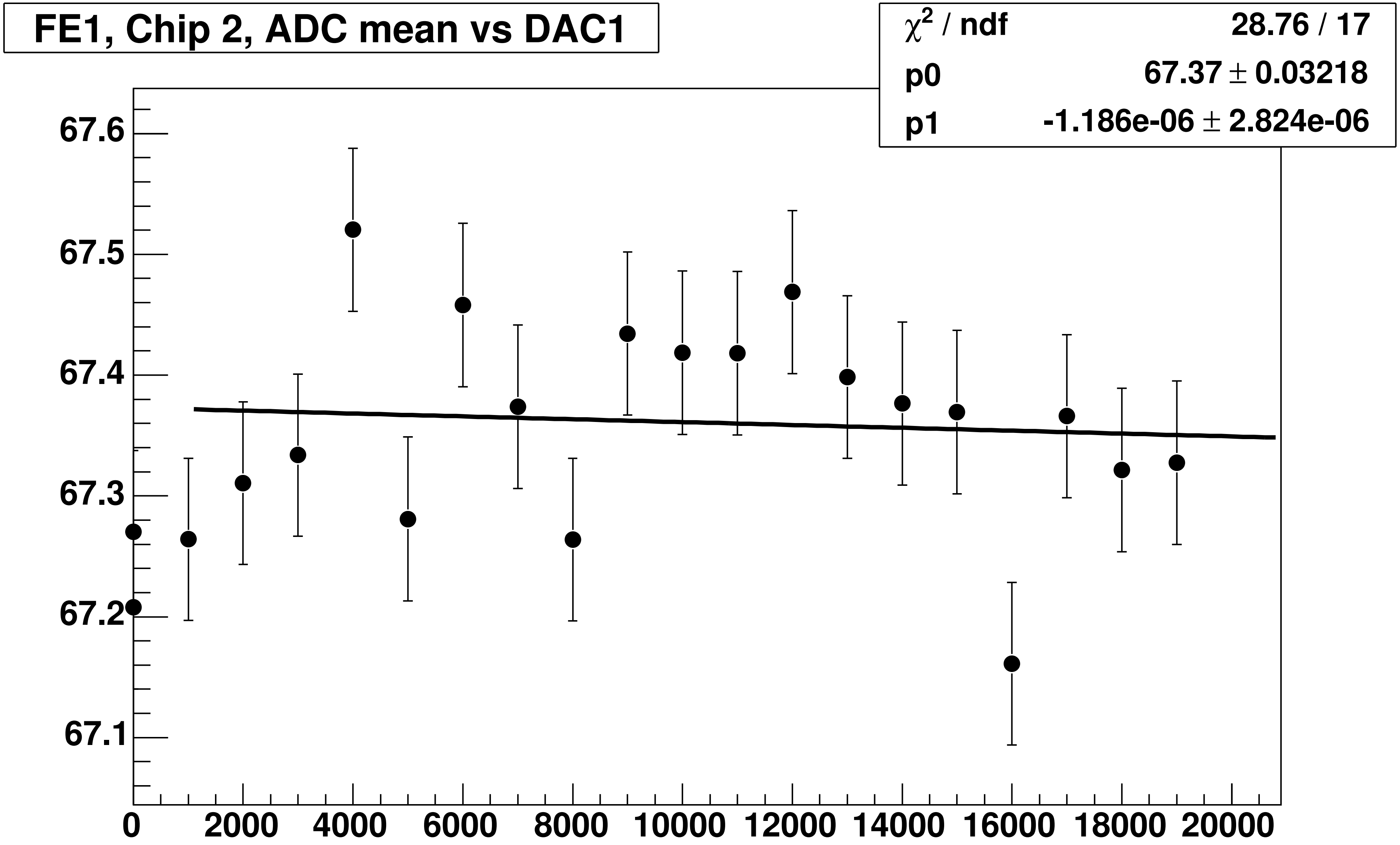

FE1, Chip 1, ADC residuals vs DAC1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE1, Chip 2, ADC mean vs DAC0
χ2 / ndf 9.534e+09 / 17
p0 -562.9 ± 0.01826
p1 0.6597 ± 1.643e-06
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

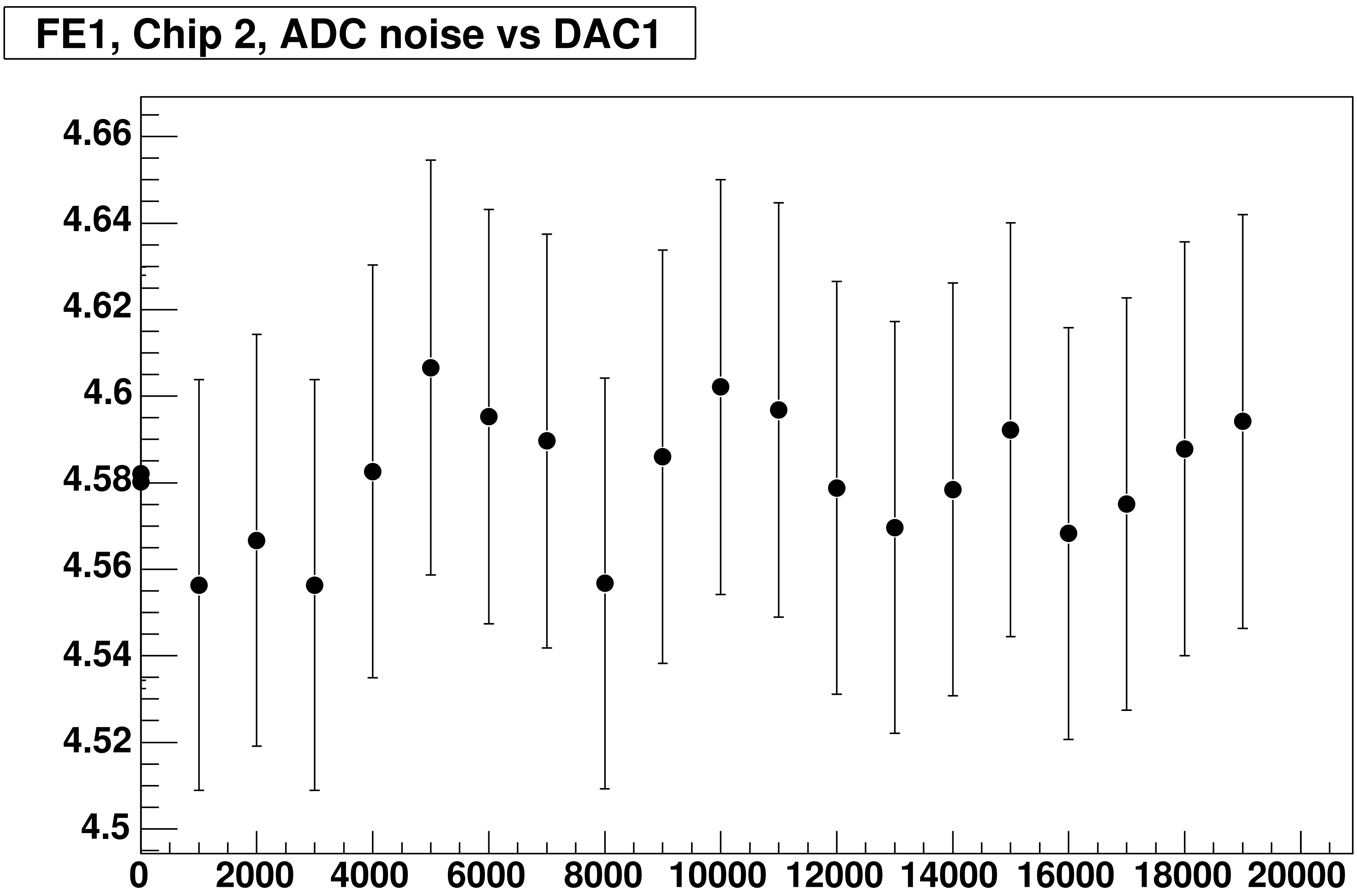

FE1, Chip 2, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

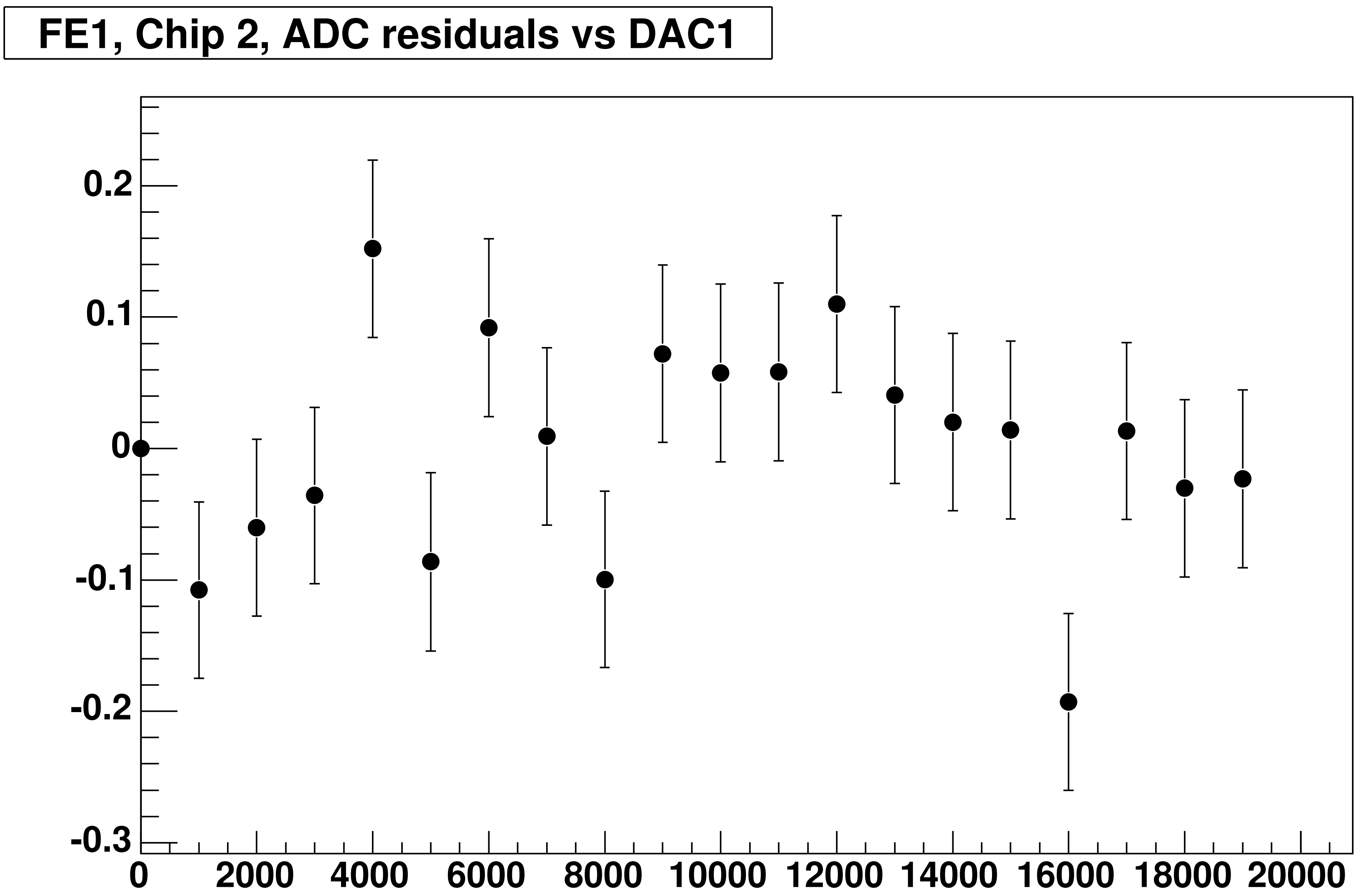


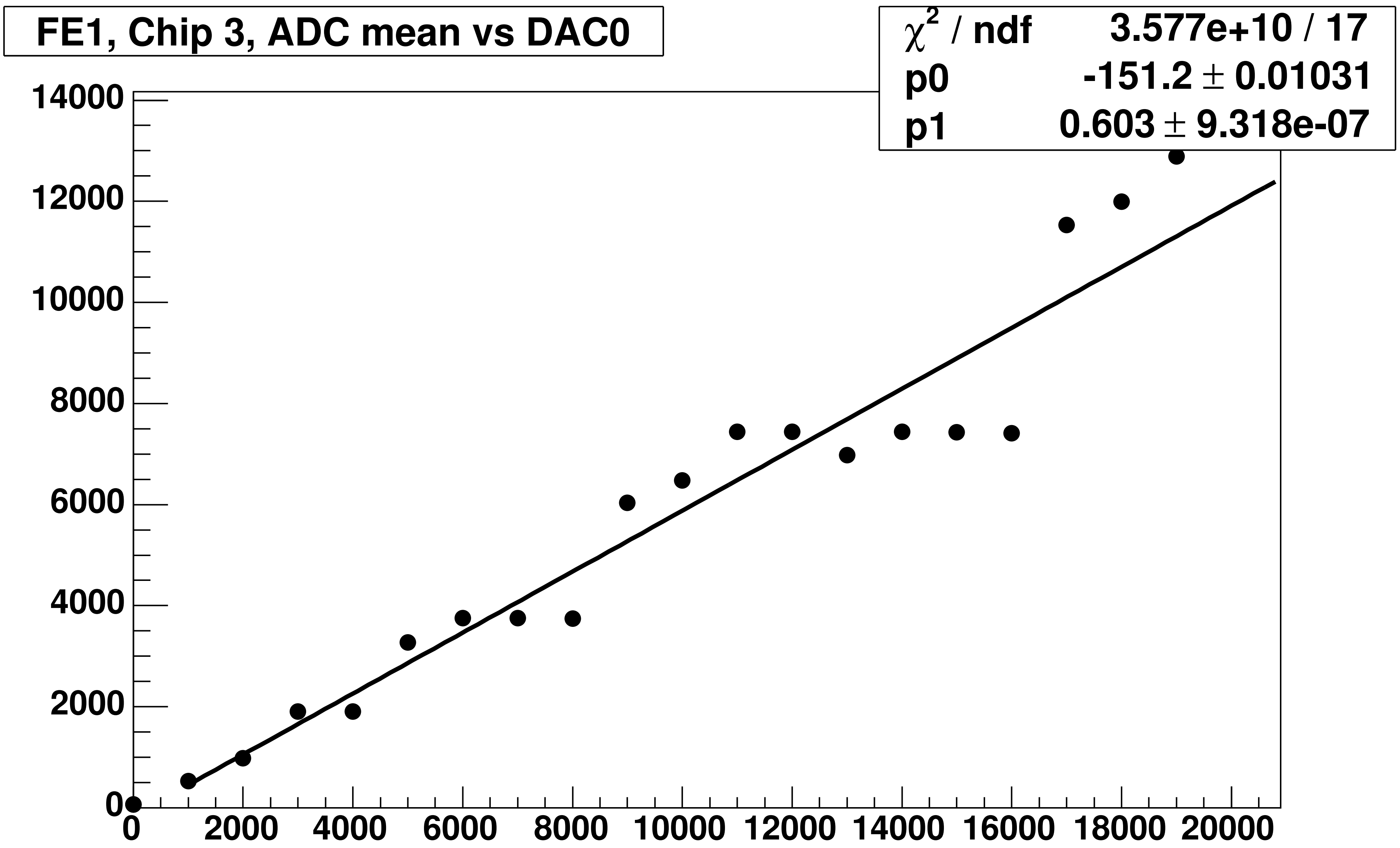
FE1, Chip 2, ADC residuals vs DAC0
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

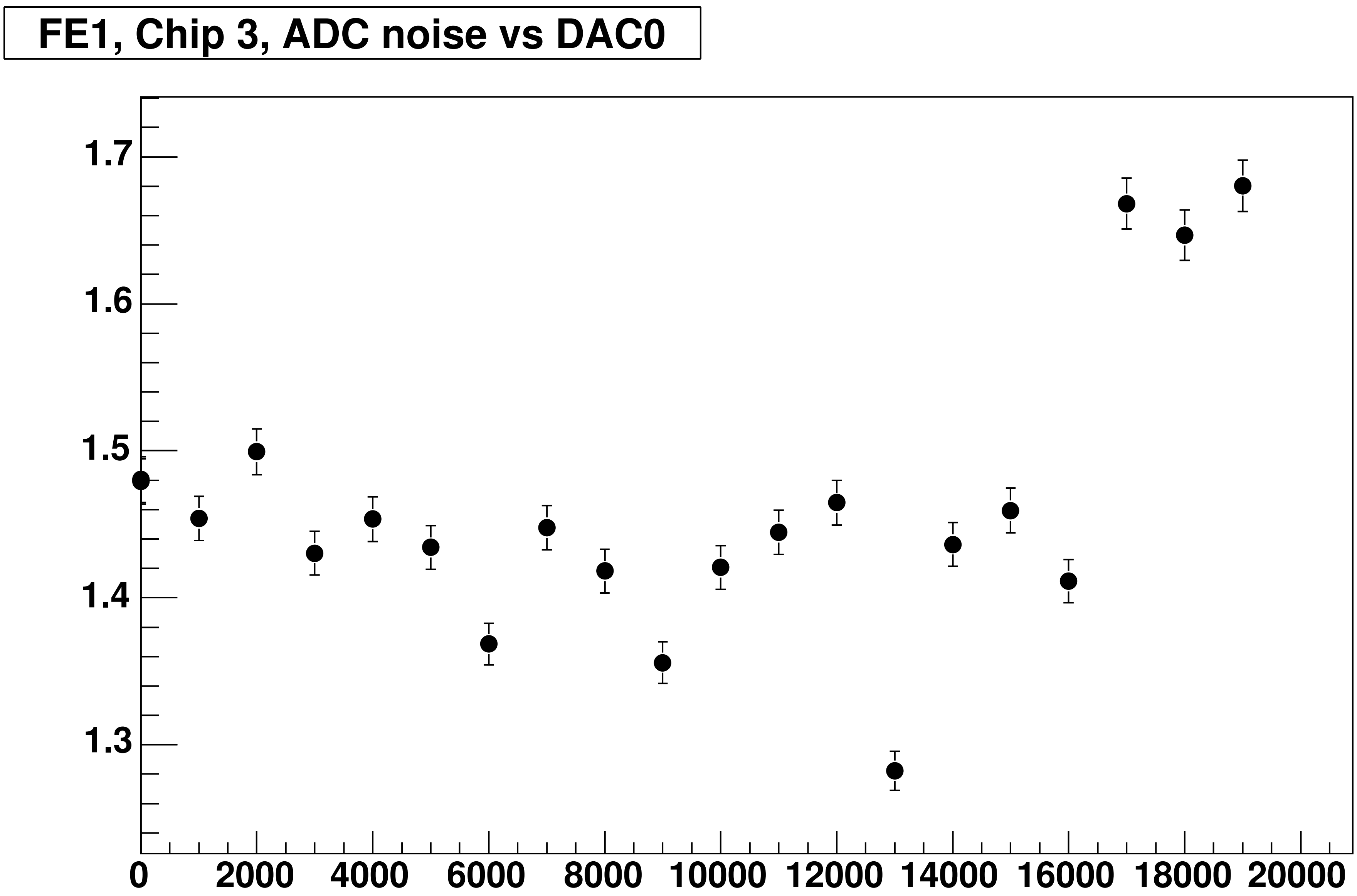


FE1, Chip 2, ADC mean vs DAC1
$\chi^2$ / ndf 28.76 / 17
p0 67.37 ± 0.03218
p1 -1.186e-06 ± 2.824e-06
67.1
67.2
67.3
67.4
67.5
67.6
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

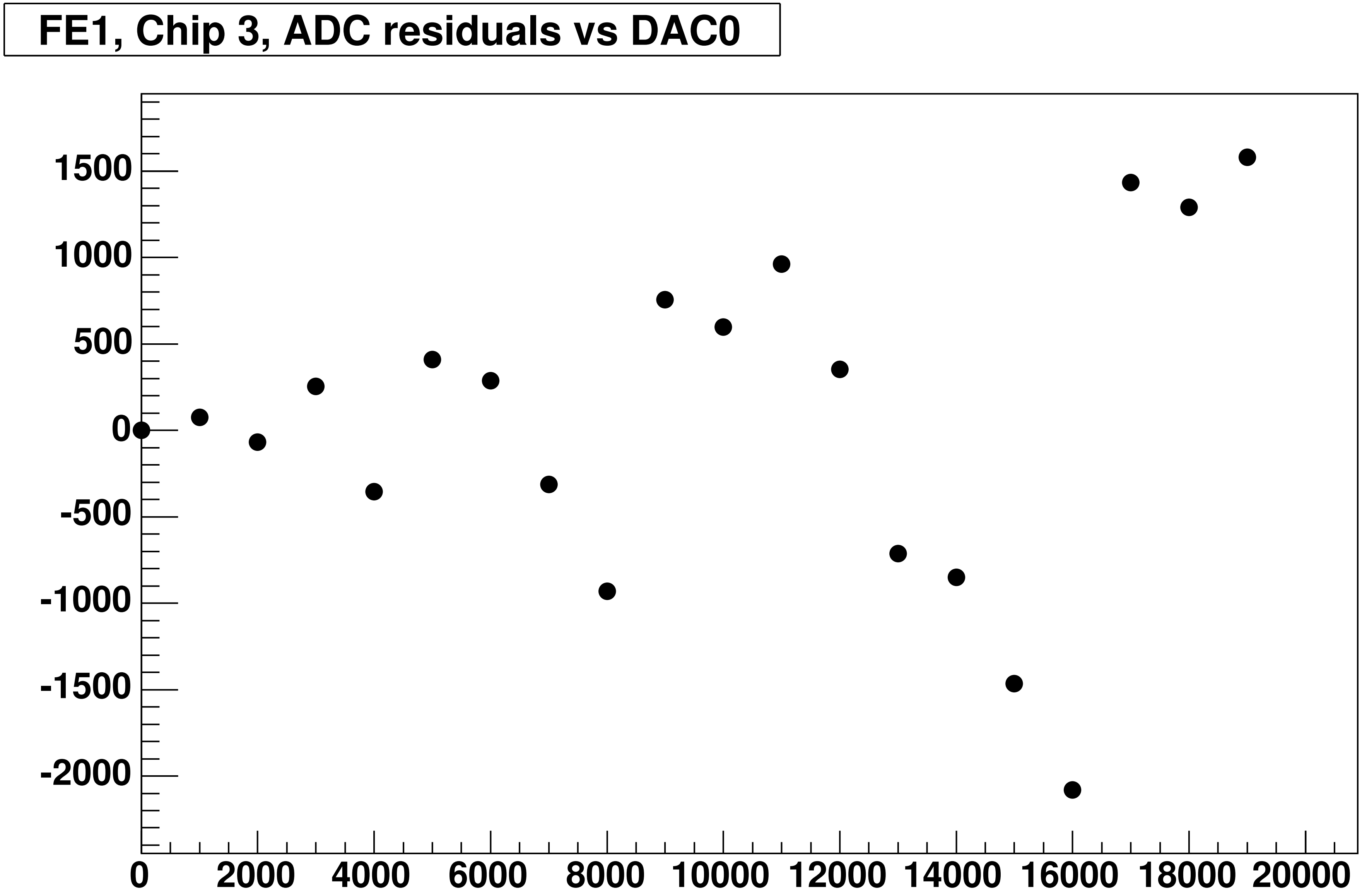

FE1, Chip 2, ADC noise vs DAC1
4.66
4.64
4.62
4.6
4.58
4.56
4.54
4.52
4.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

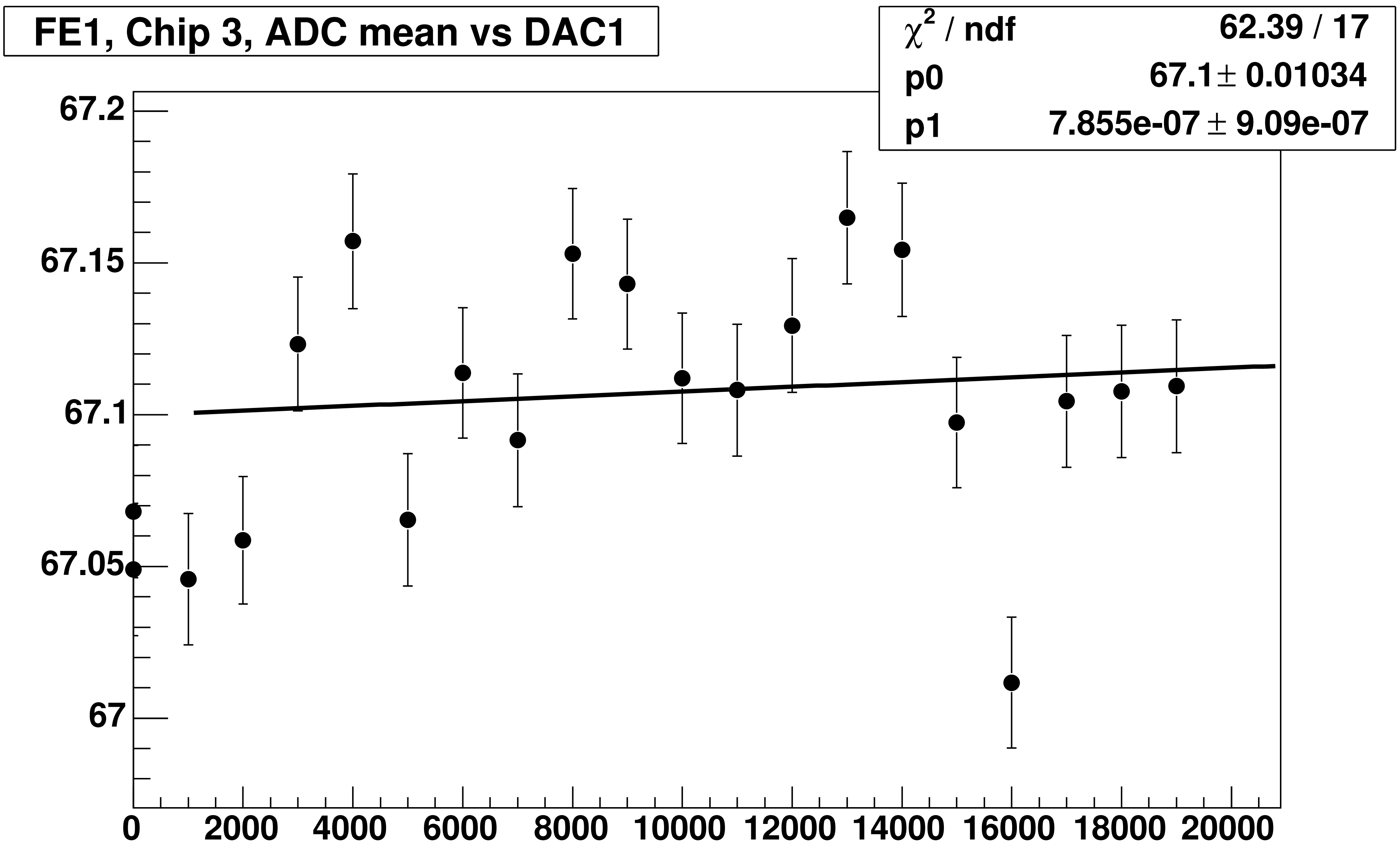

FE1, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
-0.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE1, Chip 3, ADC mean vs DAC0
χ2 / ndf 3.577e+10 / 17
p0 -151.2 ± 0.01031
p1 0.603 ± 9.318e-07
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

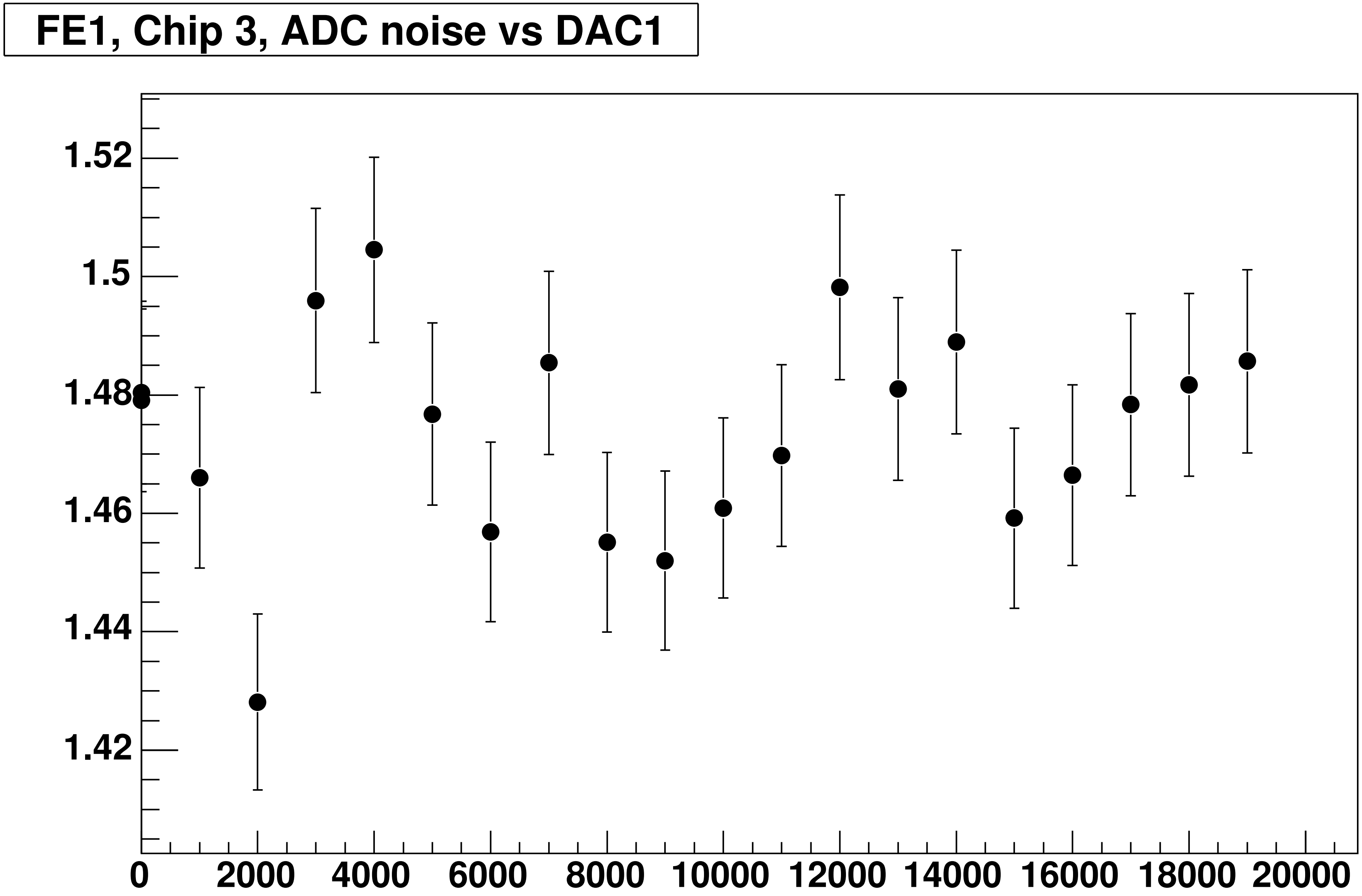


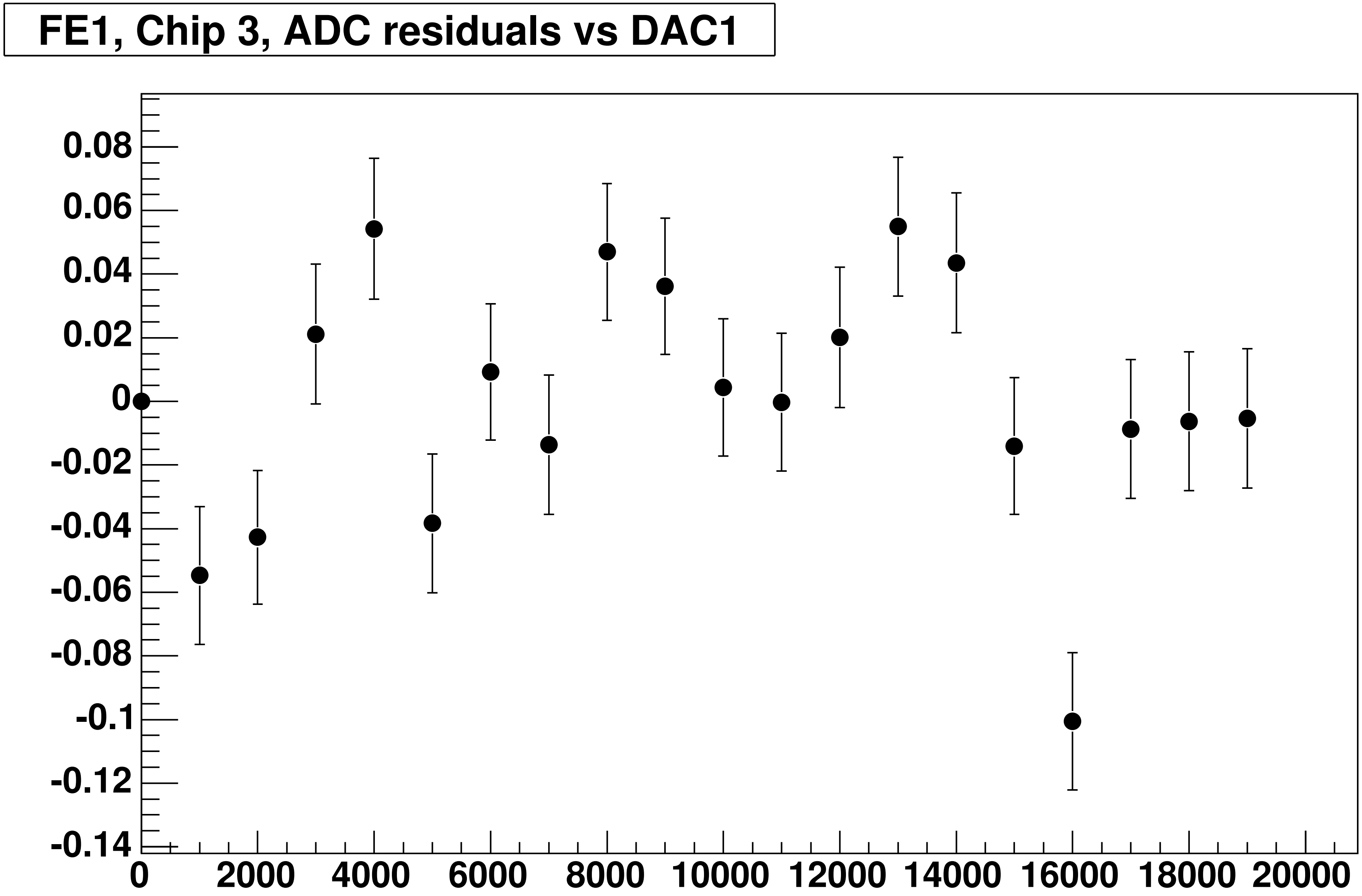
FE1, Chip 3, ADC noise vs DAC0
1.7
1.6
1.5
1.4
1.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

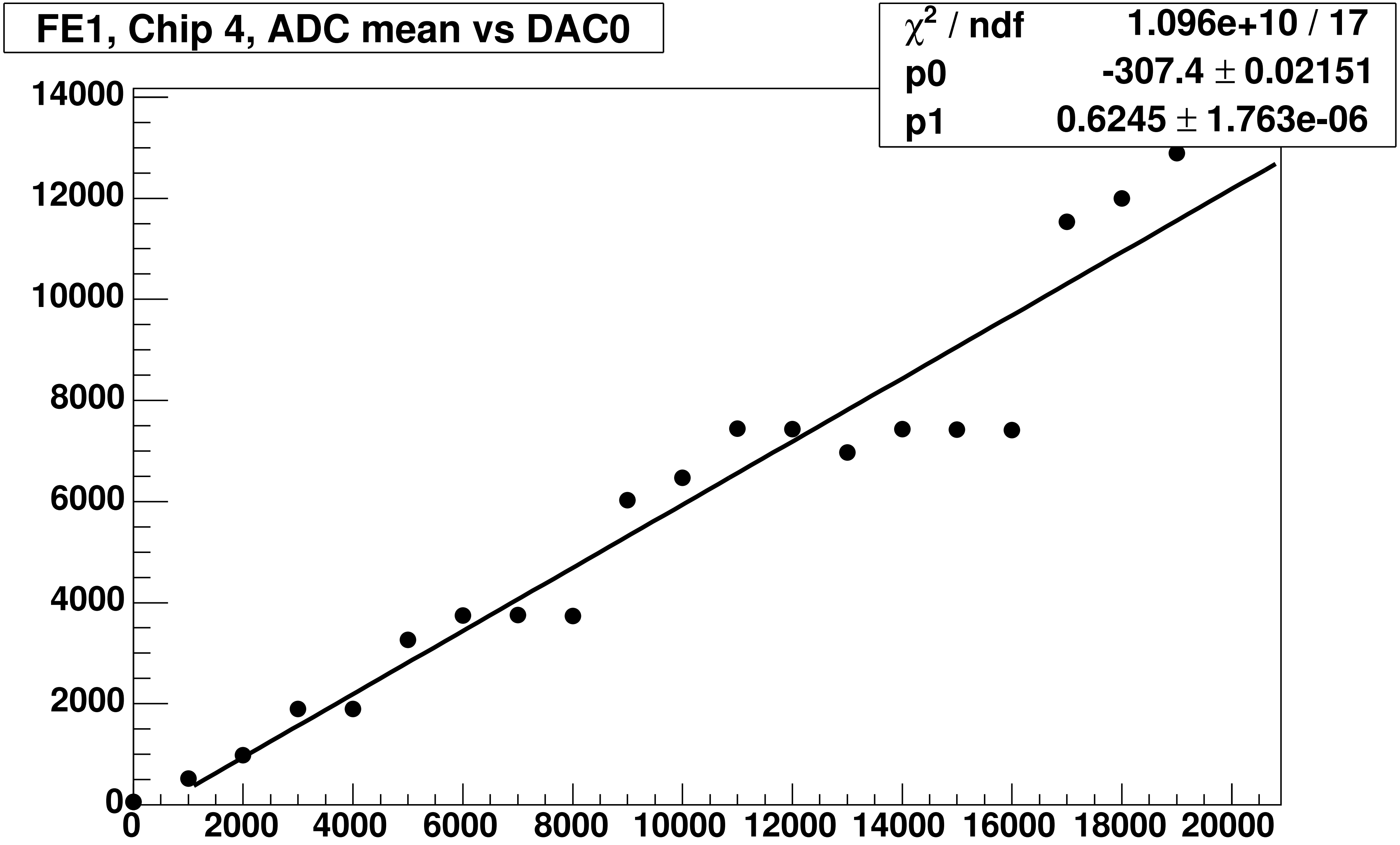

FE1, Chip 3, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

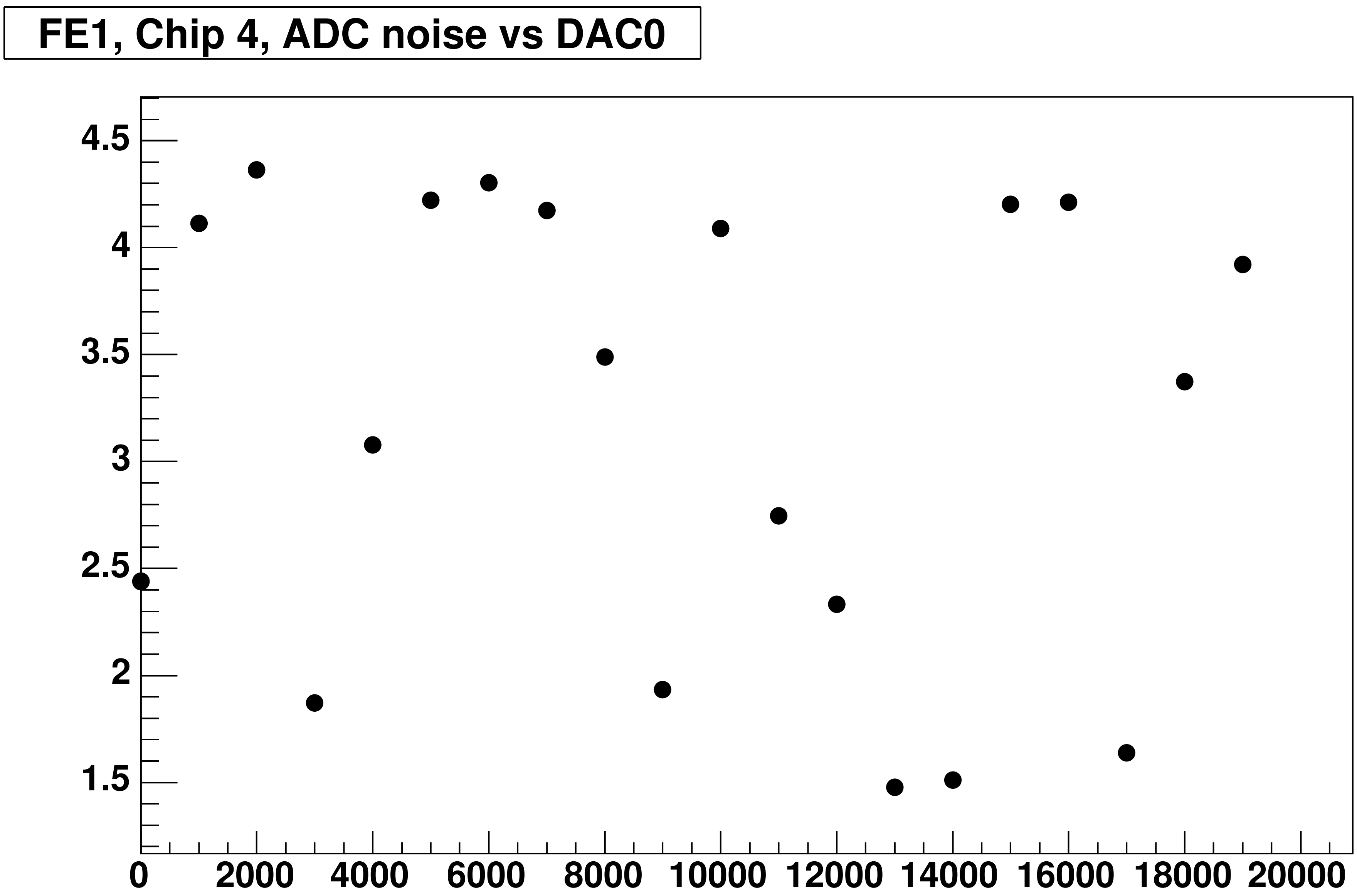


FE1, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 62.39 / 17
p0 67.1 ± 0.01034
p1 7.855e-07 ± 9.09e-07
67.2
67.15
67.1
67.05
67
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

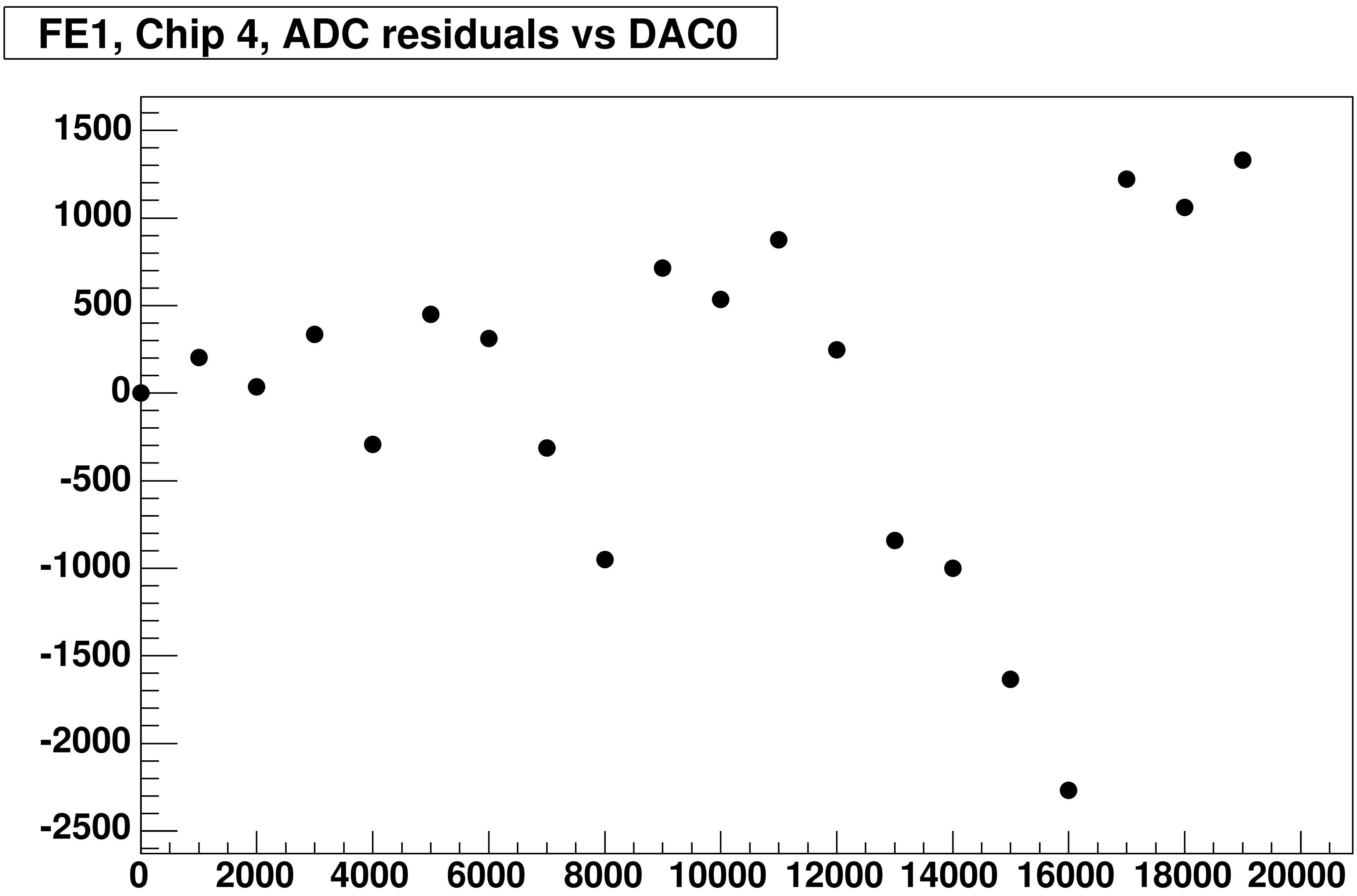

FE1, Chip 3, ADC noise vs DAC1
1.52
1.5
1.48
1.46
1.44
1.42
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

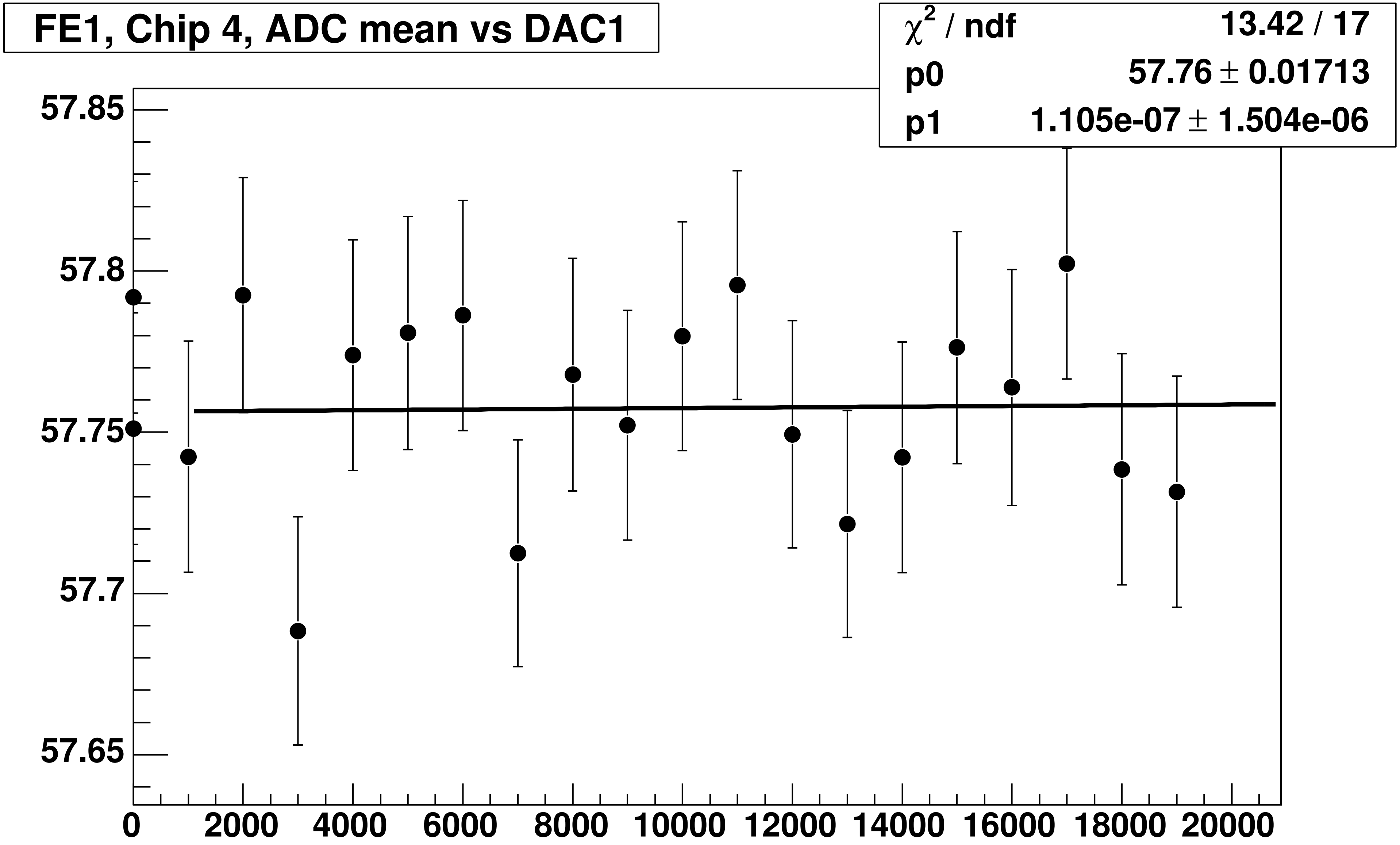

FE1, Chip 3, ADC residuals vs DAC1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
-0.12
-0.14
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

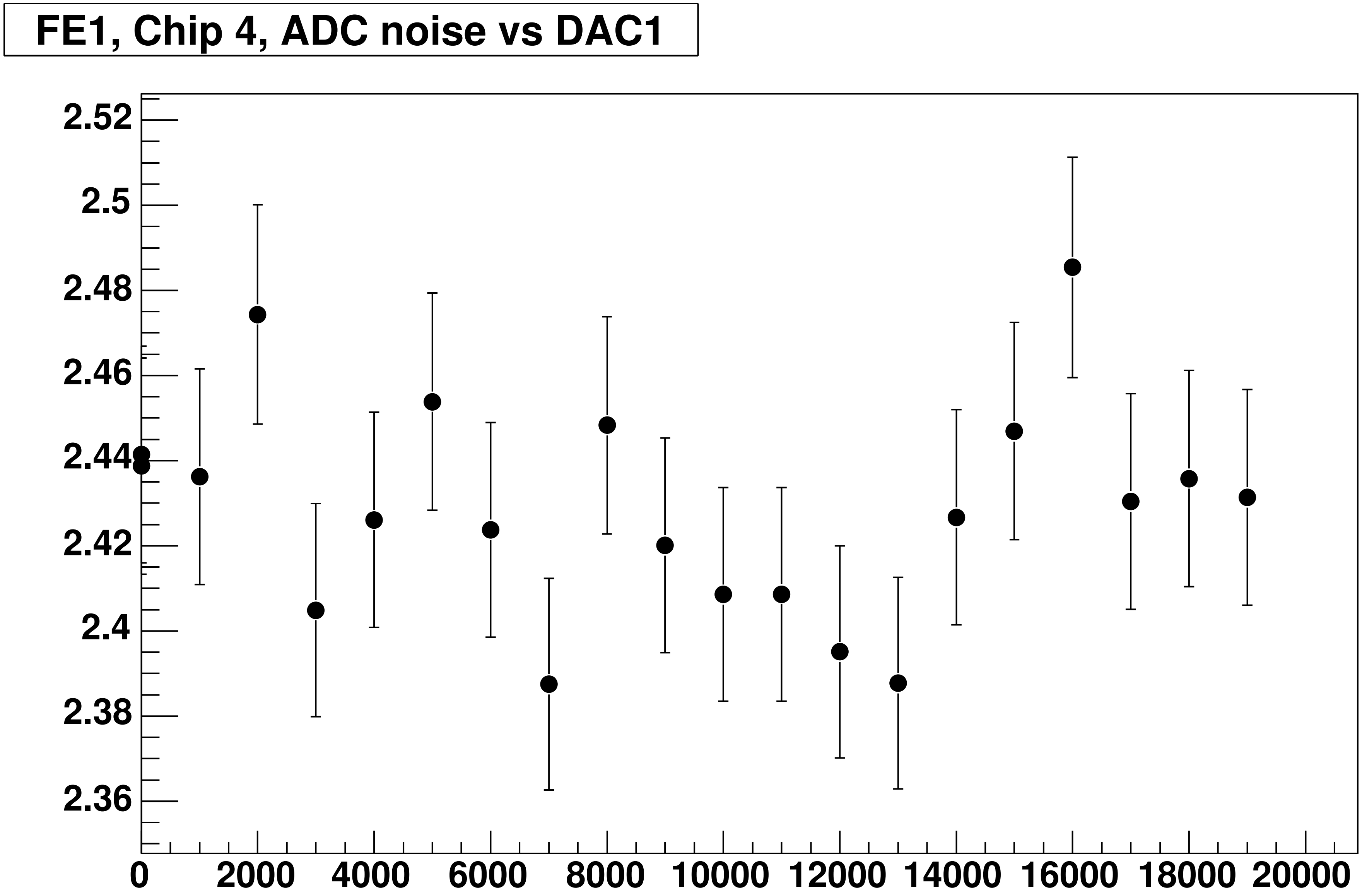

FE1, Chip 4, ADC mean vs DAC0
χ² / ndf 1.096e+10 / 17
p0 -307.4 ± 0.02151
p1 0.6245 ± 1.763e-06
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
2000
4000
6000
8000
10000
12000
14000



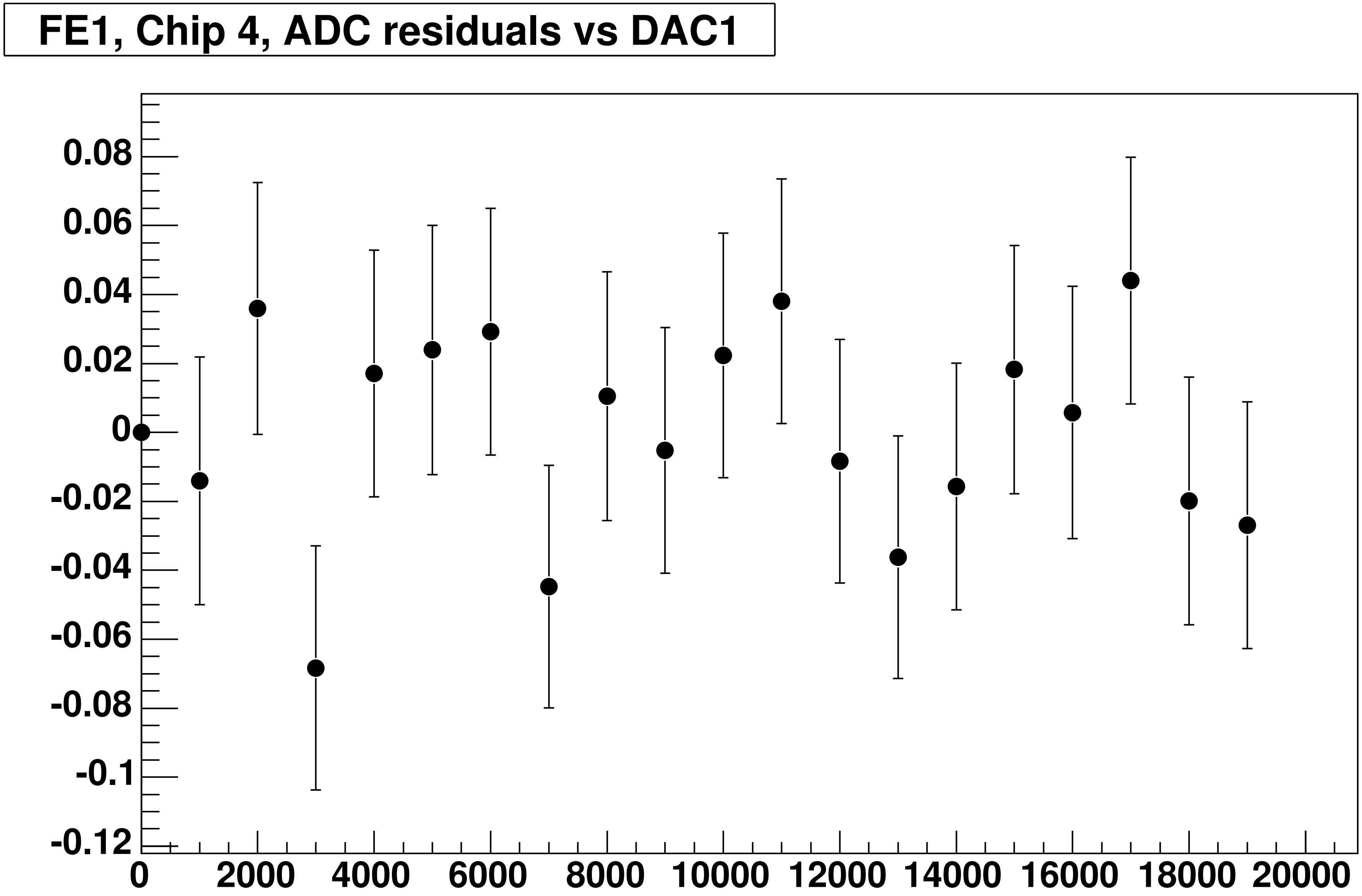
FE1, Chip 4, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

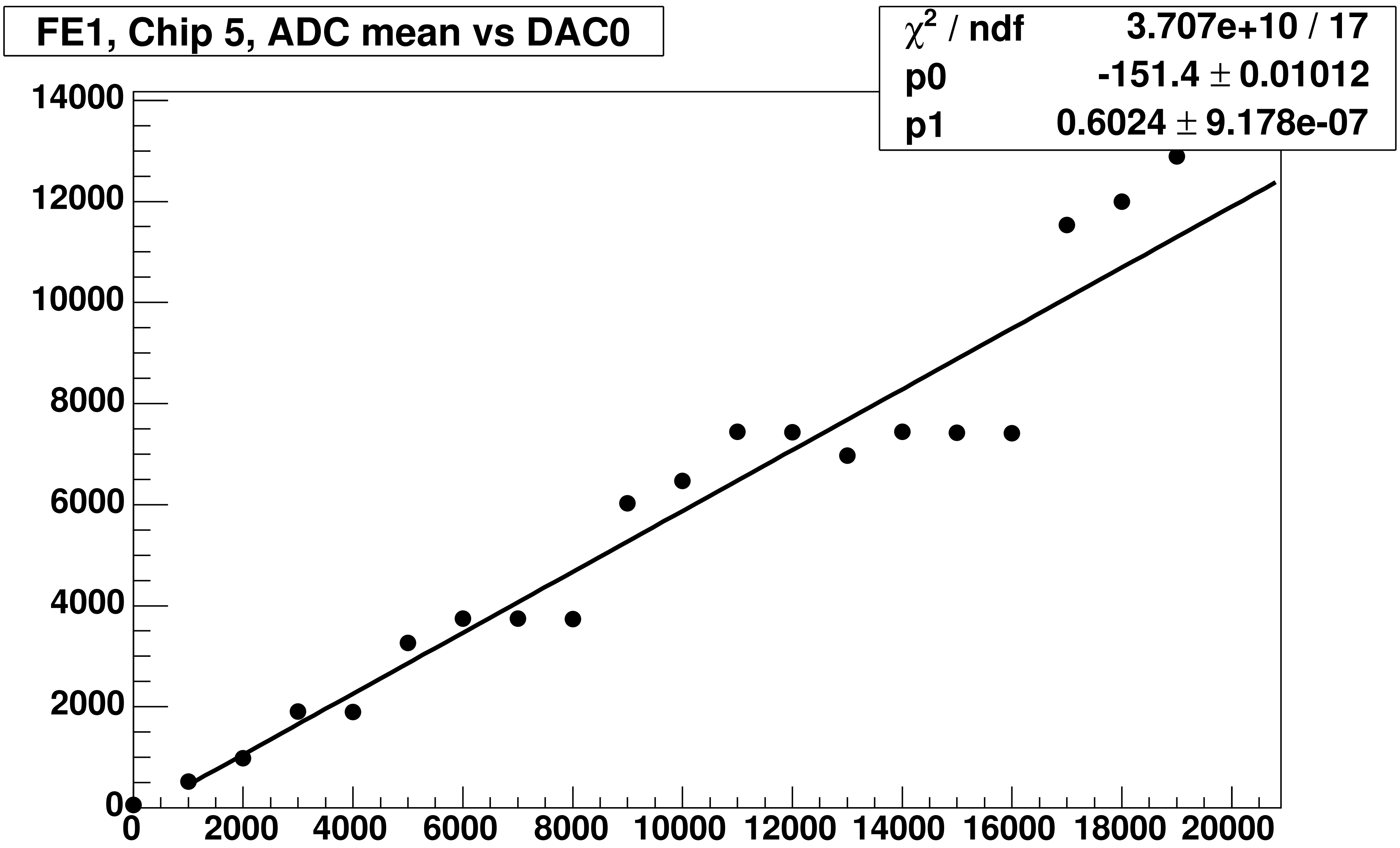

FE1, Chip 4, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

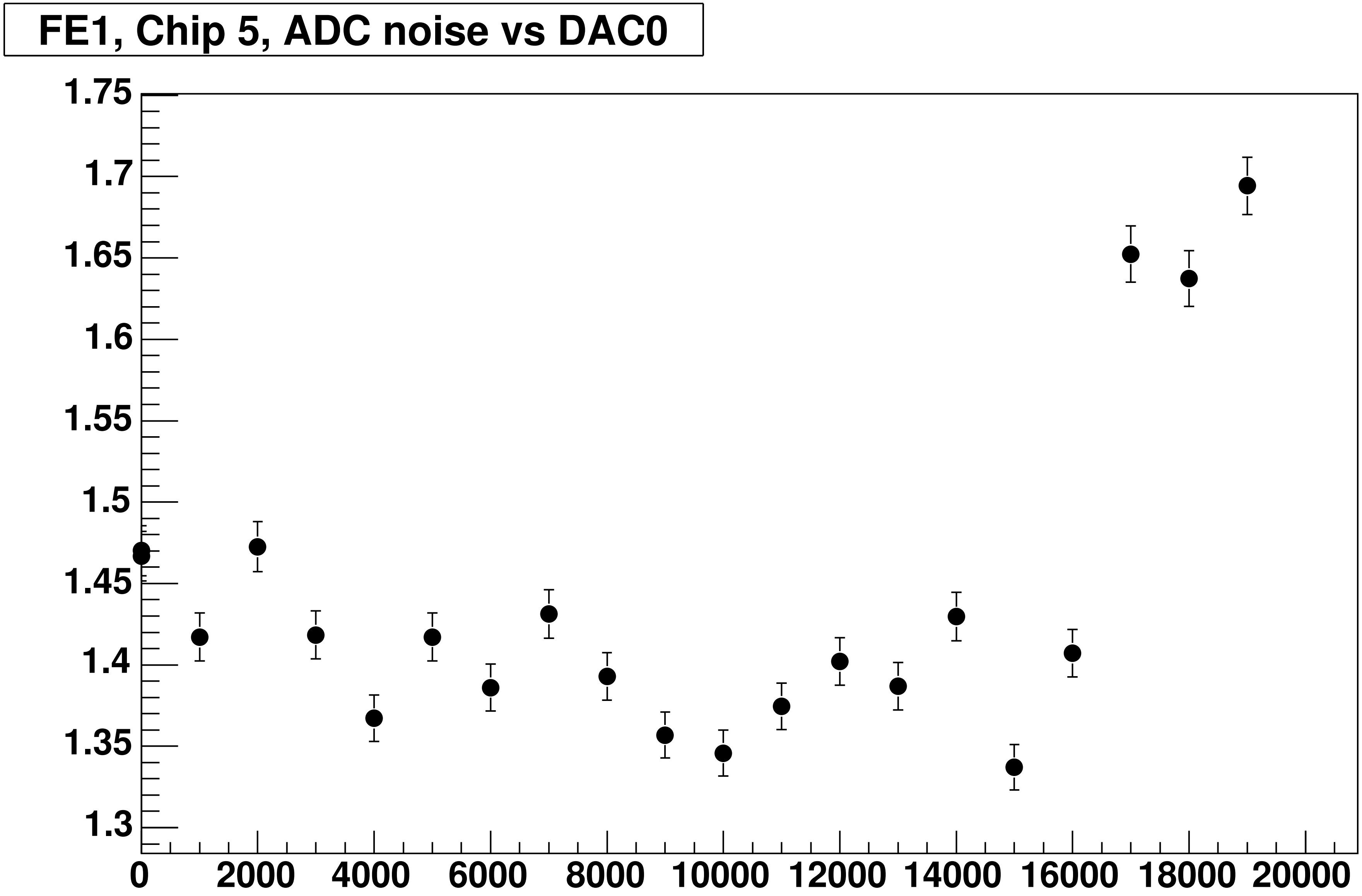

FE1, Chip 4, ADC mean vs DAC1
χ² / ndf 13.42 / 17
p0 57.76 ± 0.01713
p1 1.105e-07 ± 1.504e-06
57.85
57.8
57.75
57.7
57.65
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

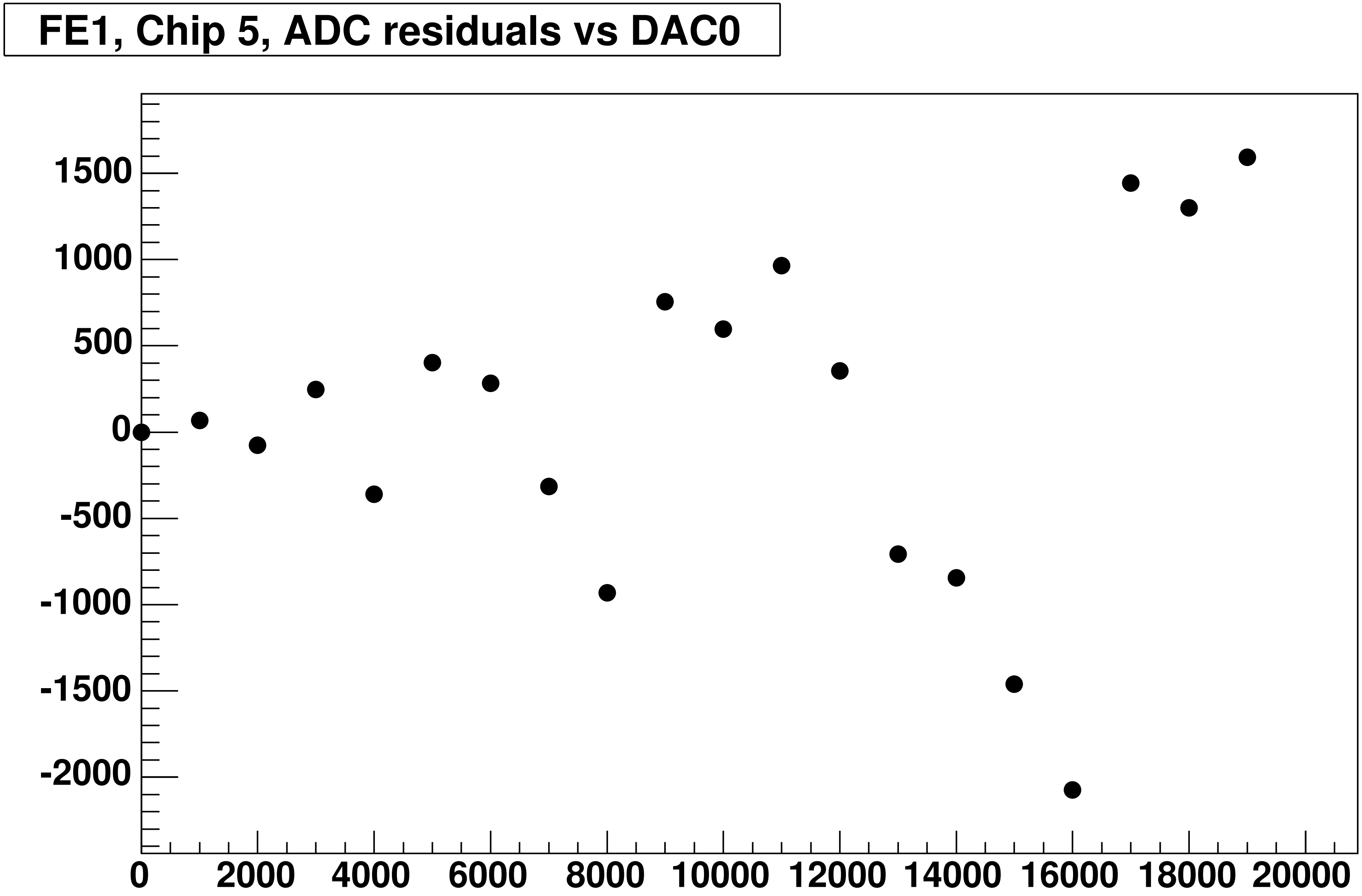


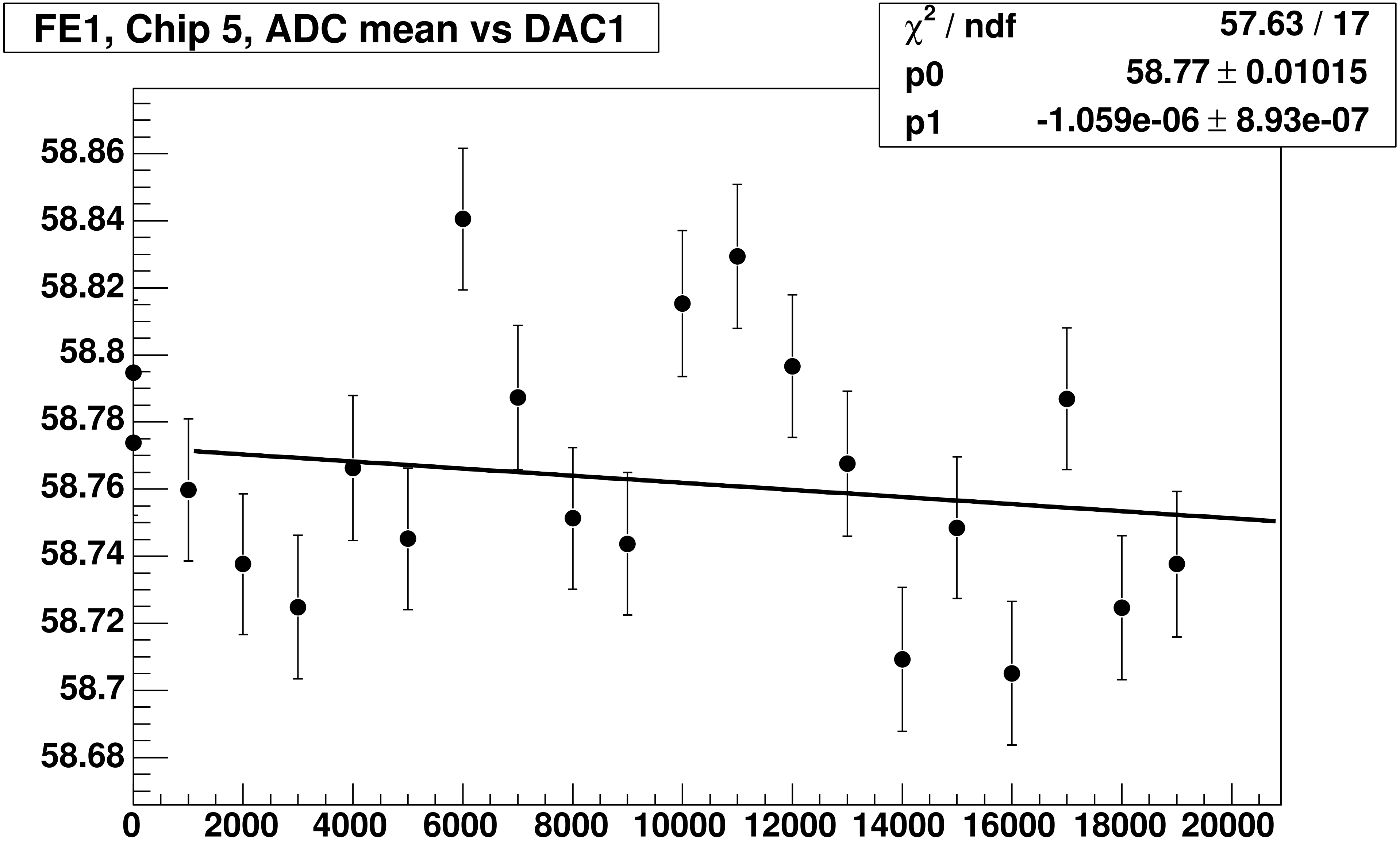
FE1, Chip 4, ADC noise vs DAC1
2.52
2.5
2.48
2.46
2.44
2.42
2.4
2.38
2.36
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

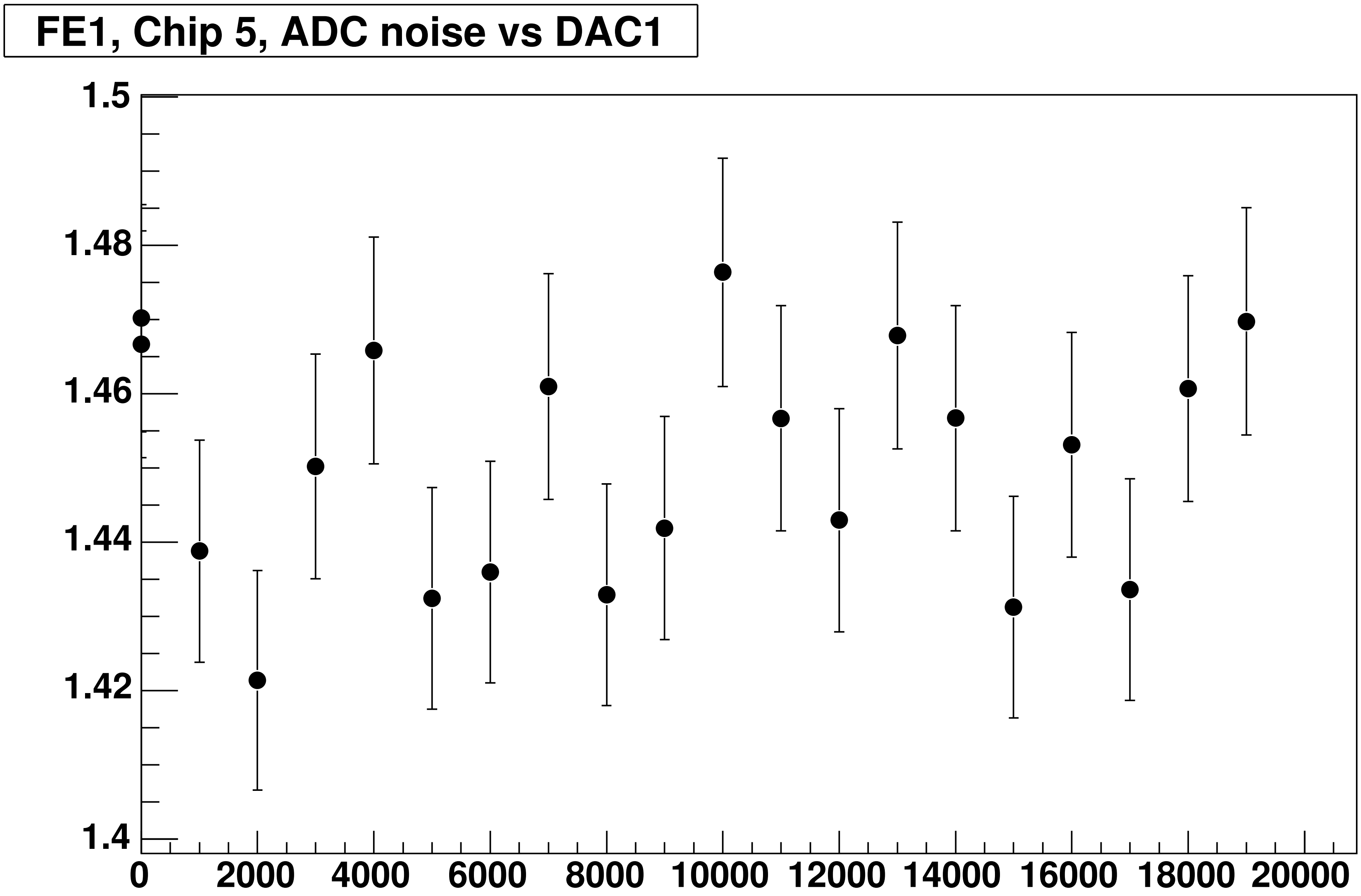

FE1, Chip 4, ADC residuals vs DAC1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
-0.12
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE1, Chip 5, ADC mean vs DAC0
$\chi^2$ / ndf 3.707e+10 / 17
p0 -151.4 ± 0.01012
p1 0.6024 ± 9.178e-07
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
2000
4000
6000
8000
10000
12000
14000

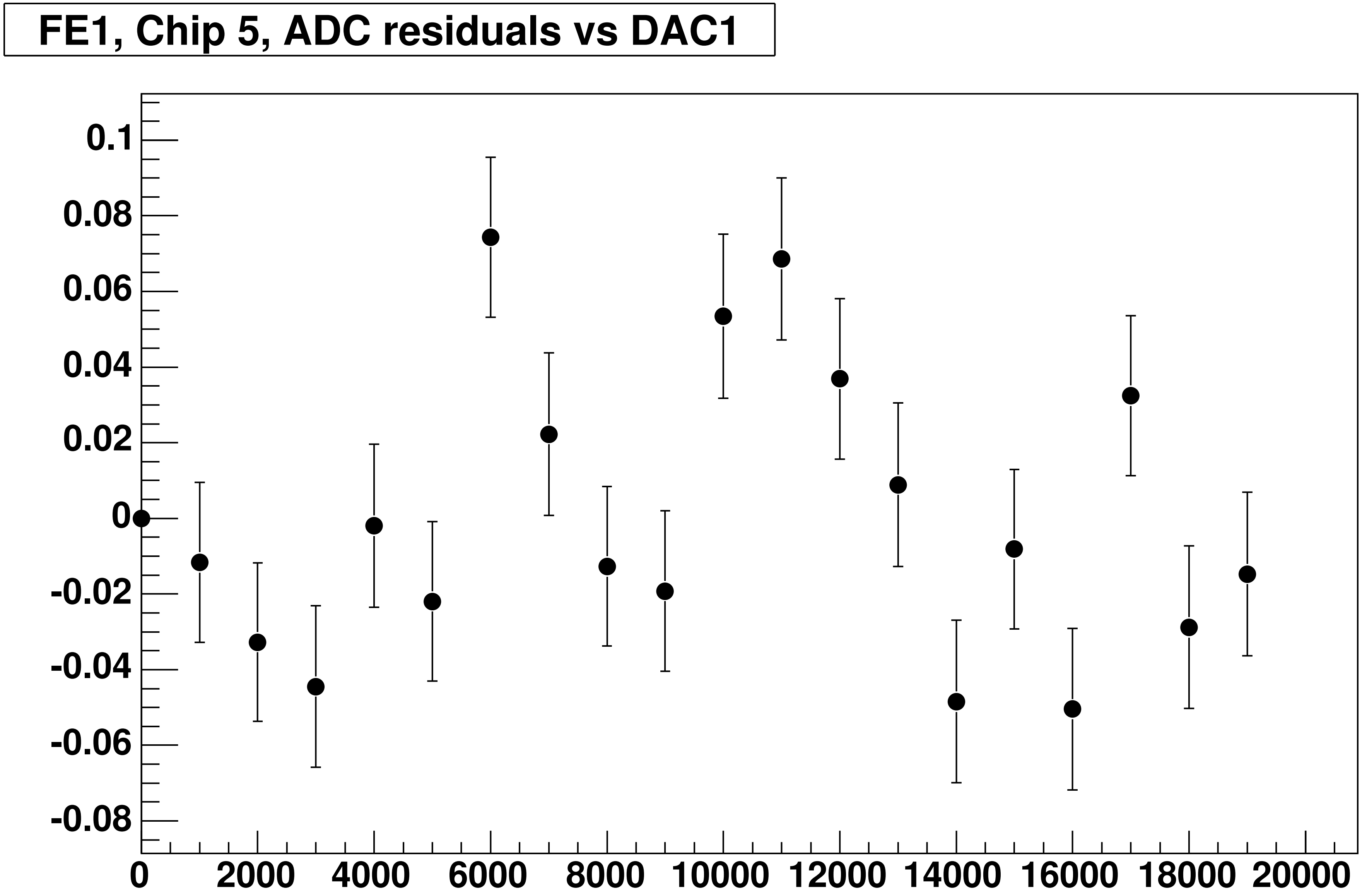

FE1, Chip 5, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

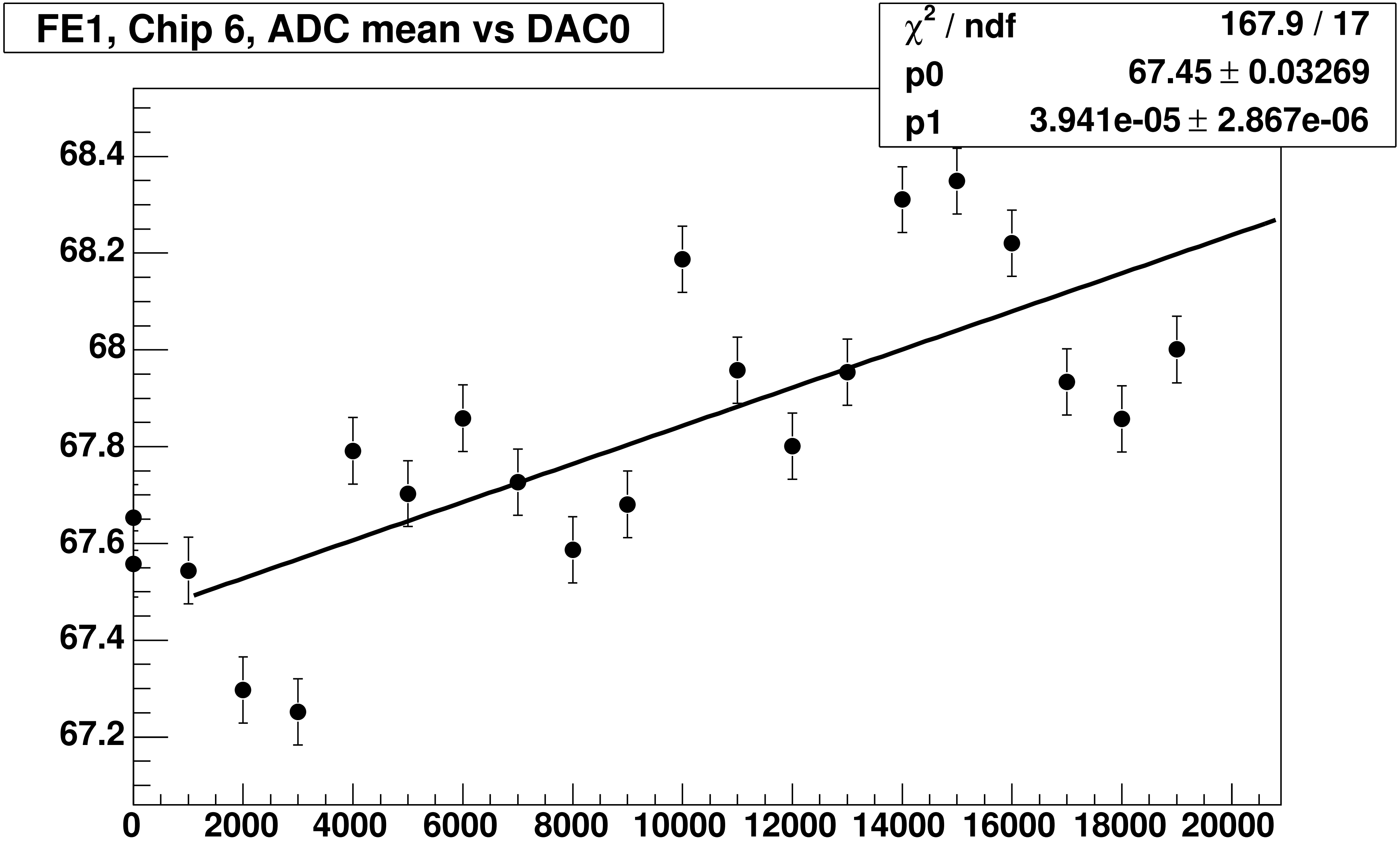

FE1, Chip 5, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

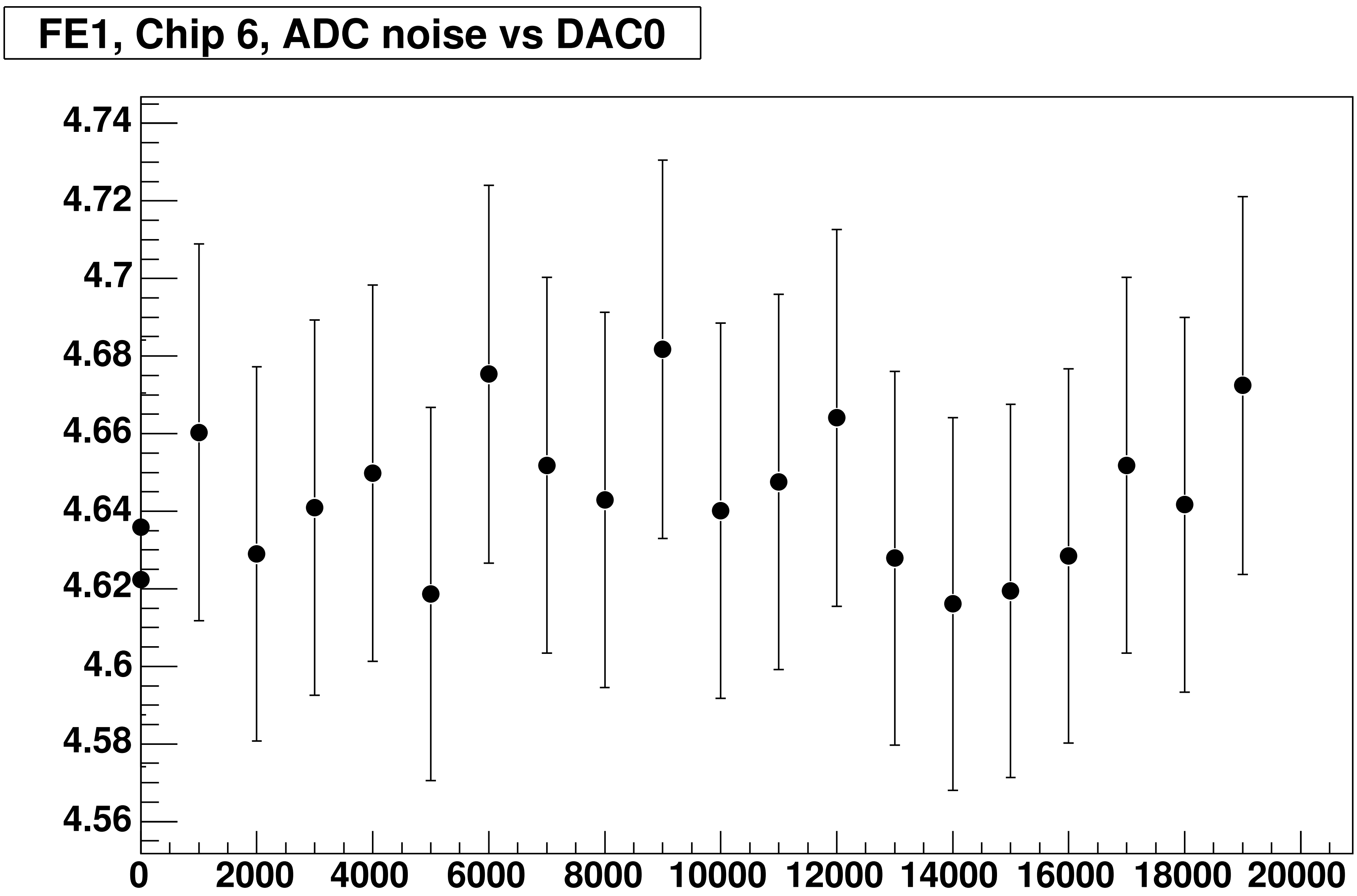

FE1, Chip 5, ADC mean vs DAC1
χ2 / ndf 57.63 / 17
p0 58.77 ± 0.01015
p1 -1.059e-06 ± 8.93e-07
58.86
58.84
58.82
58.8
58.78
58.76
58.74
58.72
58.7
58.68
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

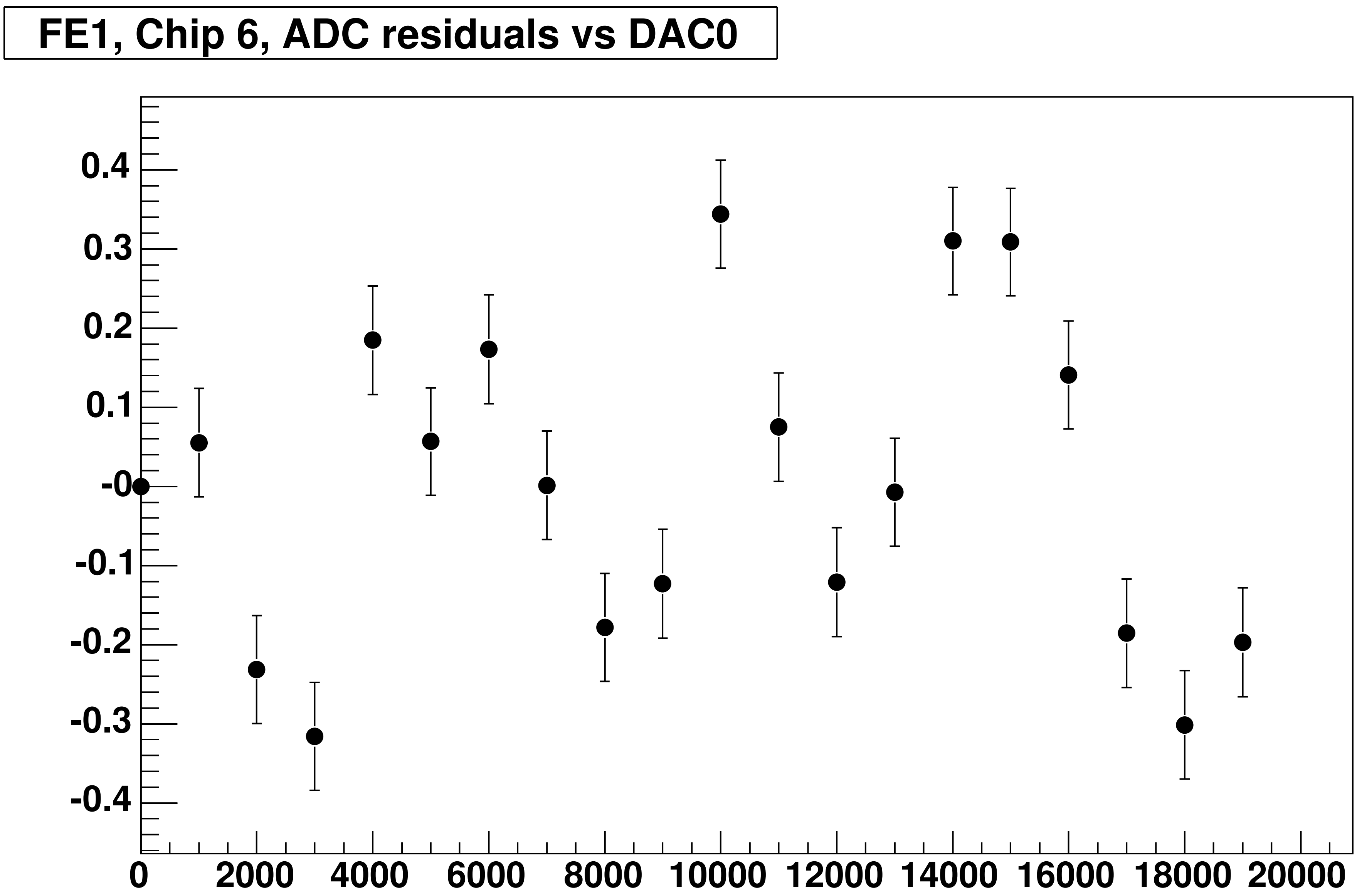


FE1, Chip 5, ADC noise vs DAC1
1.5
1.48
1.46
1.44
1.42
1.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

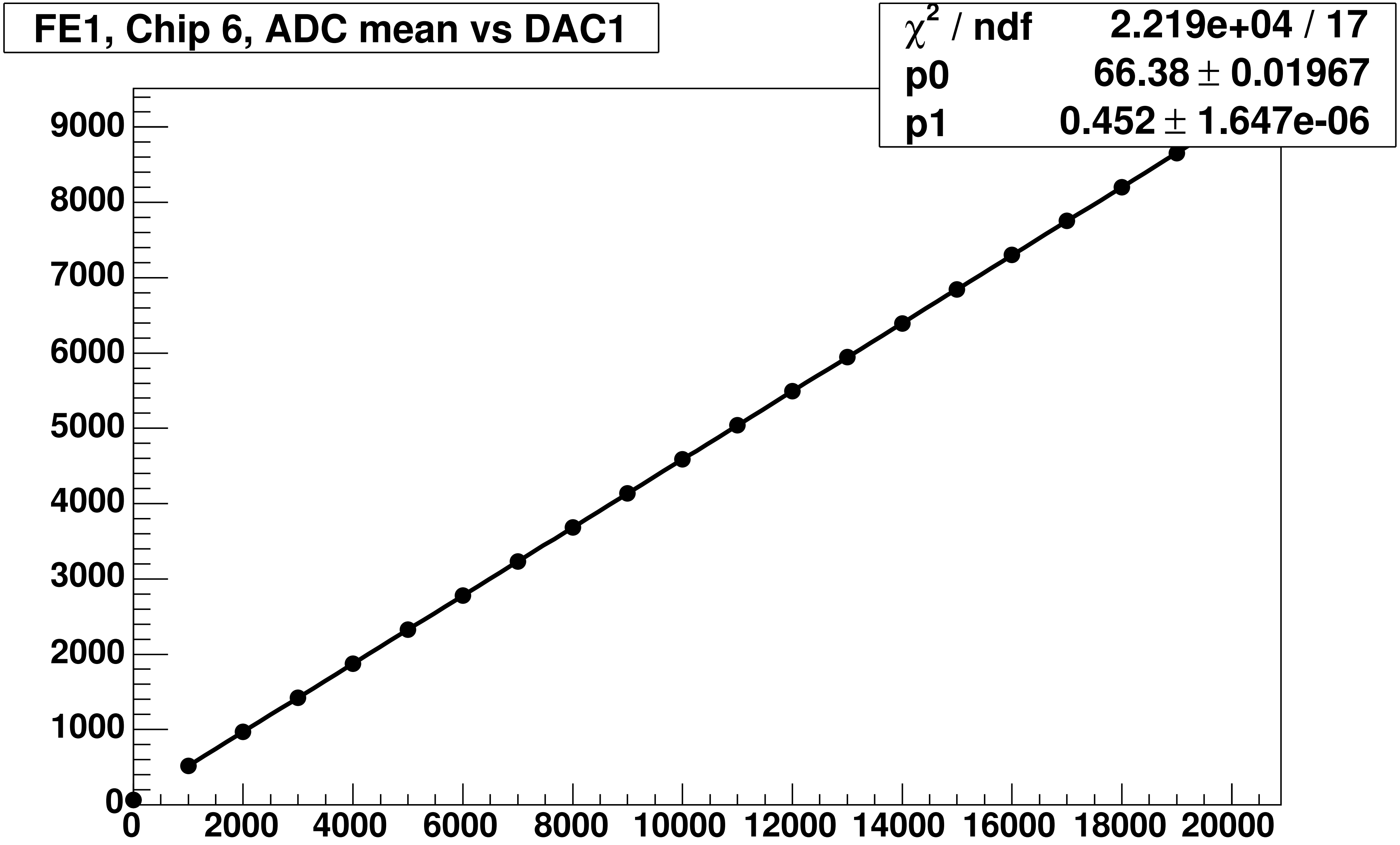

FE1, Chip 5, ADC residuals vs DAC1
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

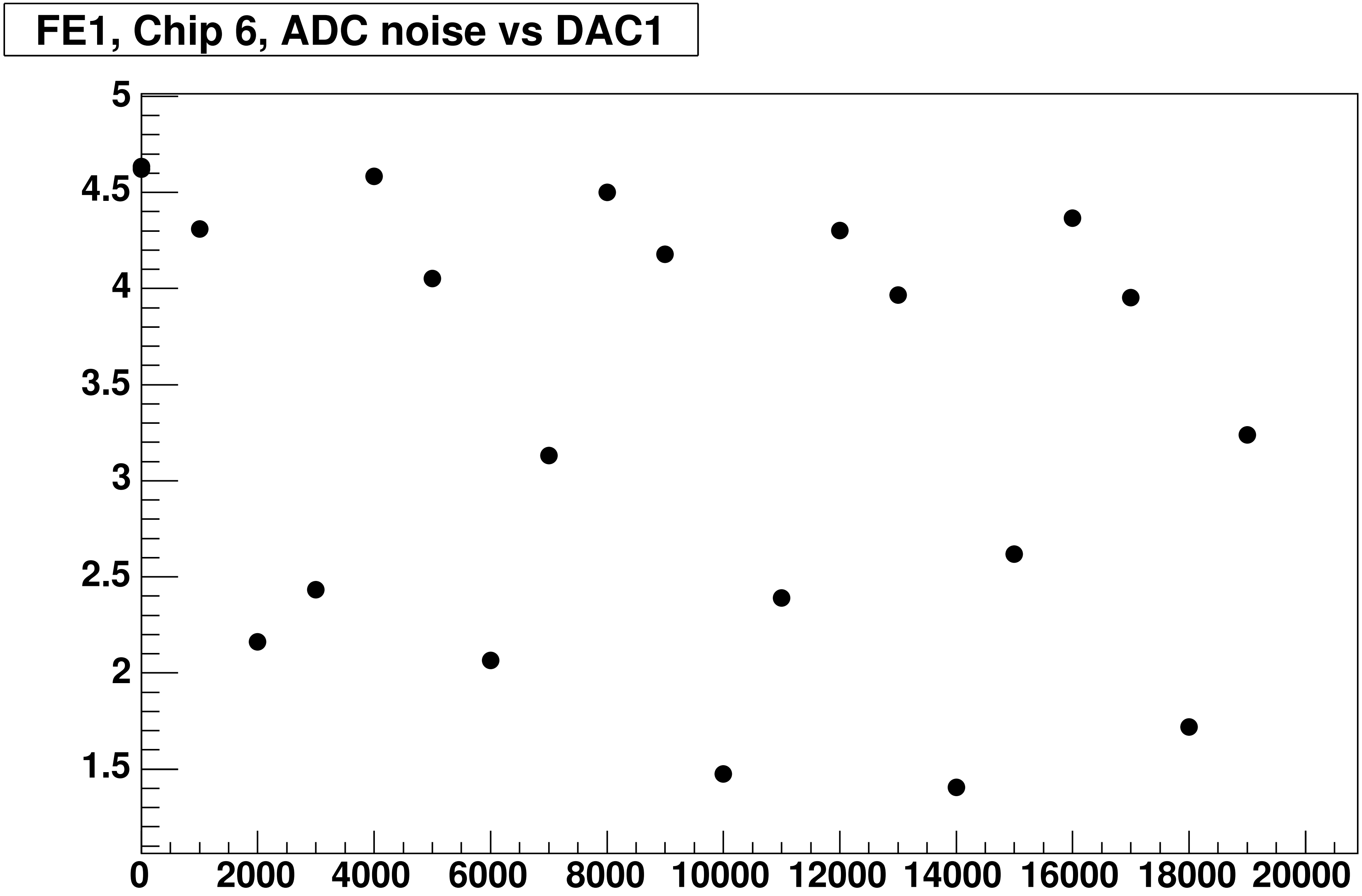

FE1, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 167.9 / 17
p0 67.45 ± 0.03269
p1 3.941e-05 ± 2.867e-06
68.4
68.2
68
67.8
67.6
67.4
67.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE1, Chip 6, ADC noise vs DAC0
4.74
4.72
4.7
4.68
4.66
4.64
4.62
4.6
4.58
4.56
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

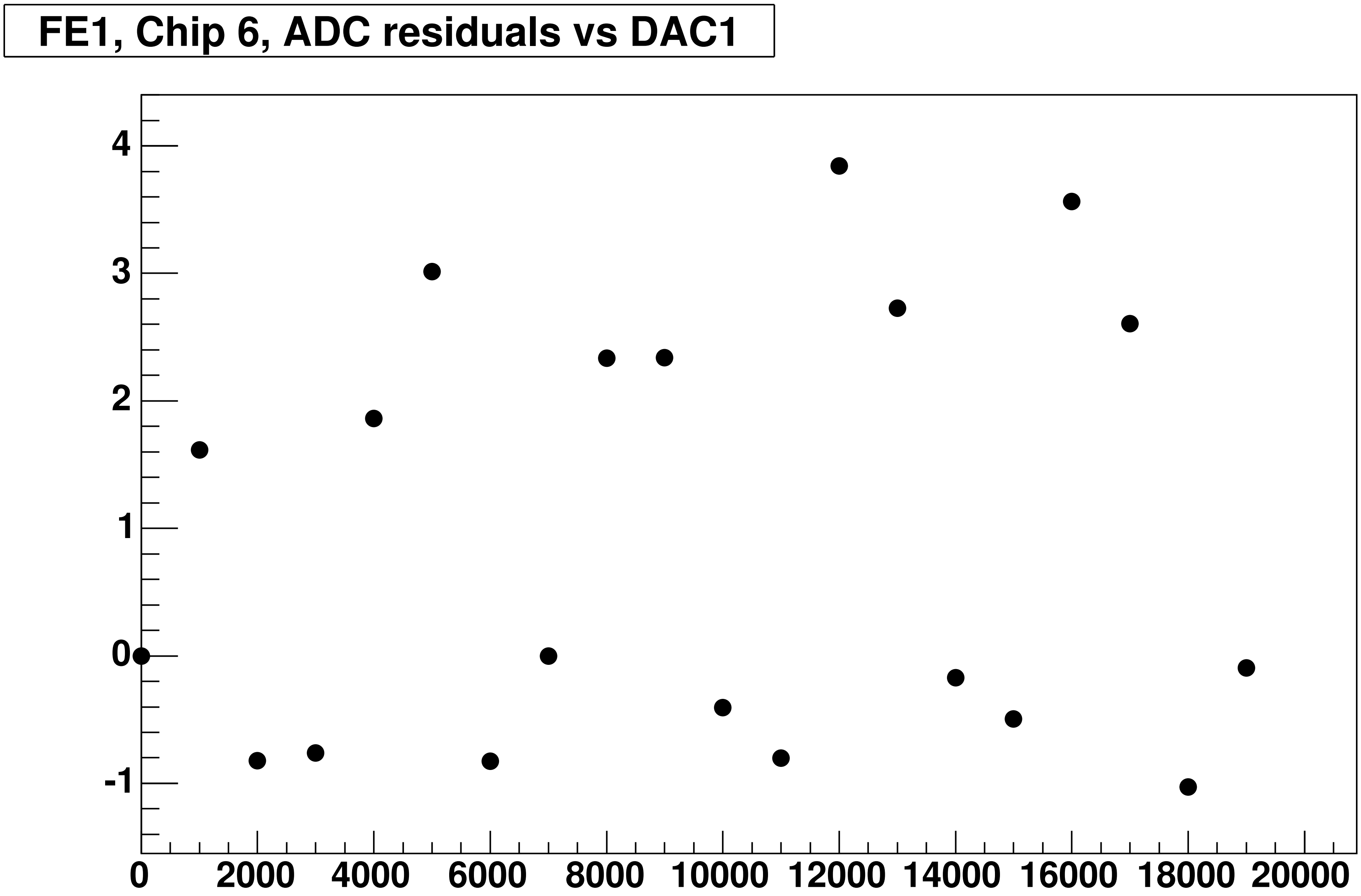


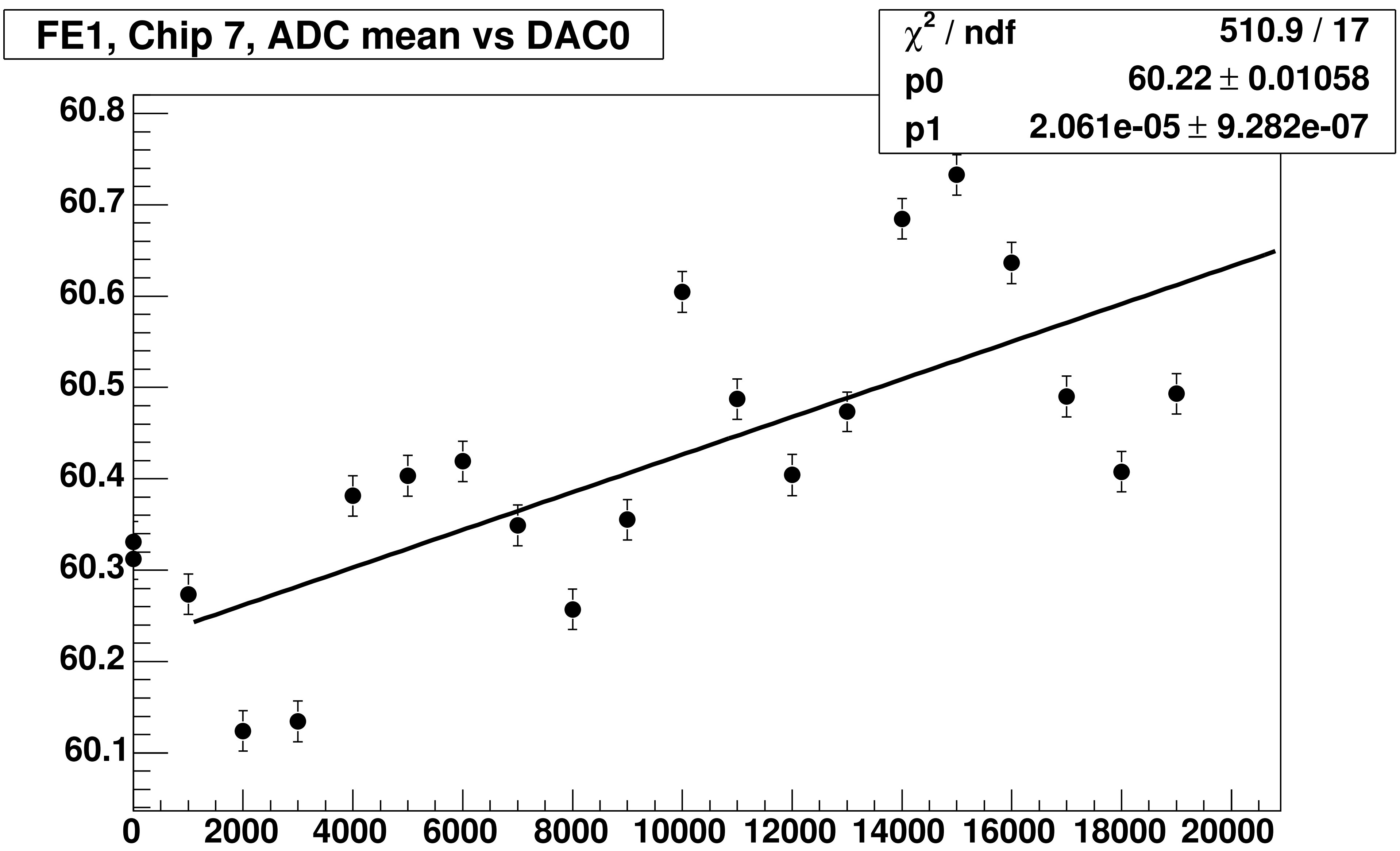
FE1, Chip 6, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE1, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 2.219e+04 / 17
p0 66.38 ± 0.01967
p1 0.452 ± 1.647e-06
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



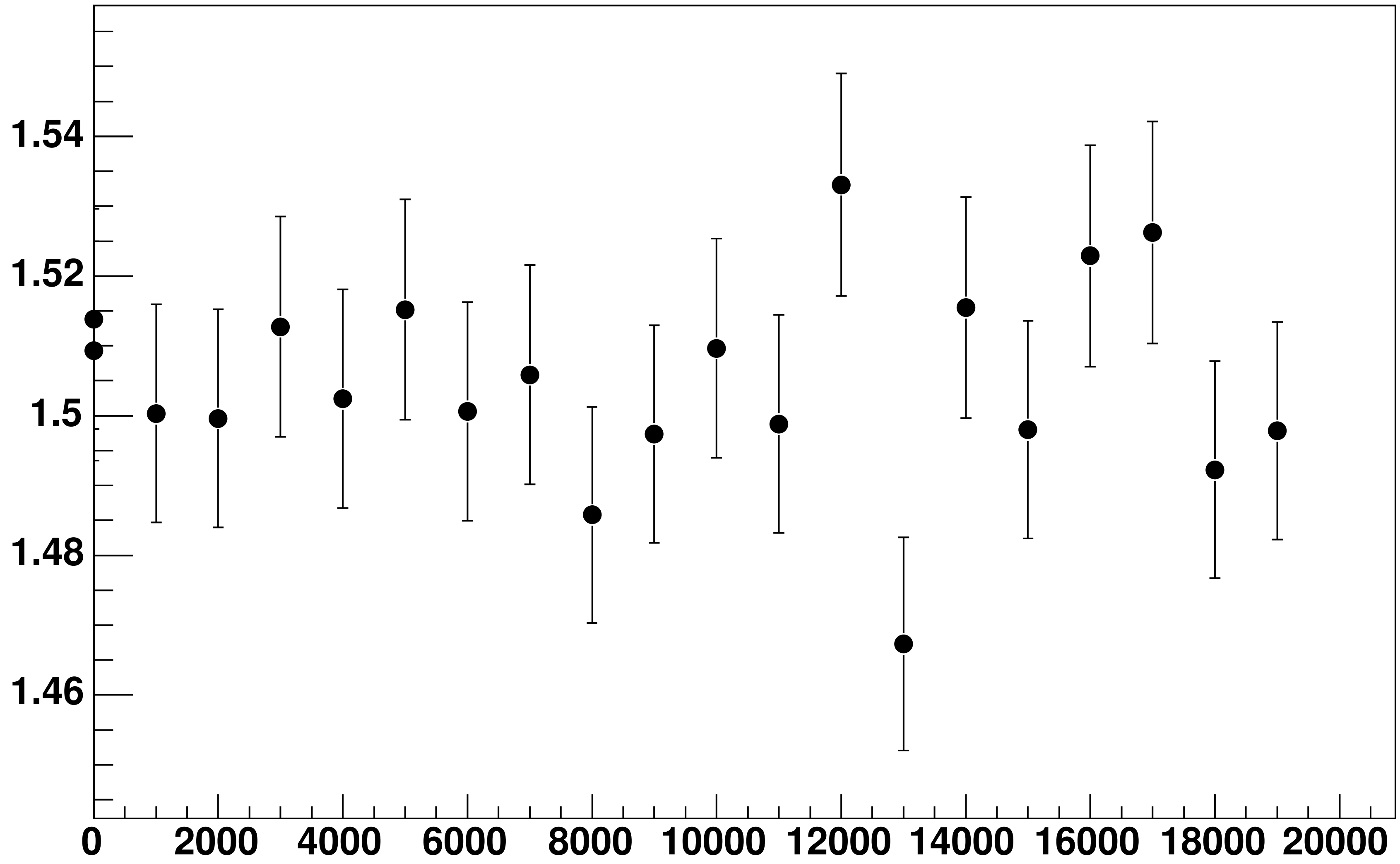
FE1, Chip 6, ADC noise vs DAC1
5
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

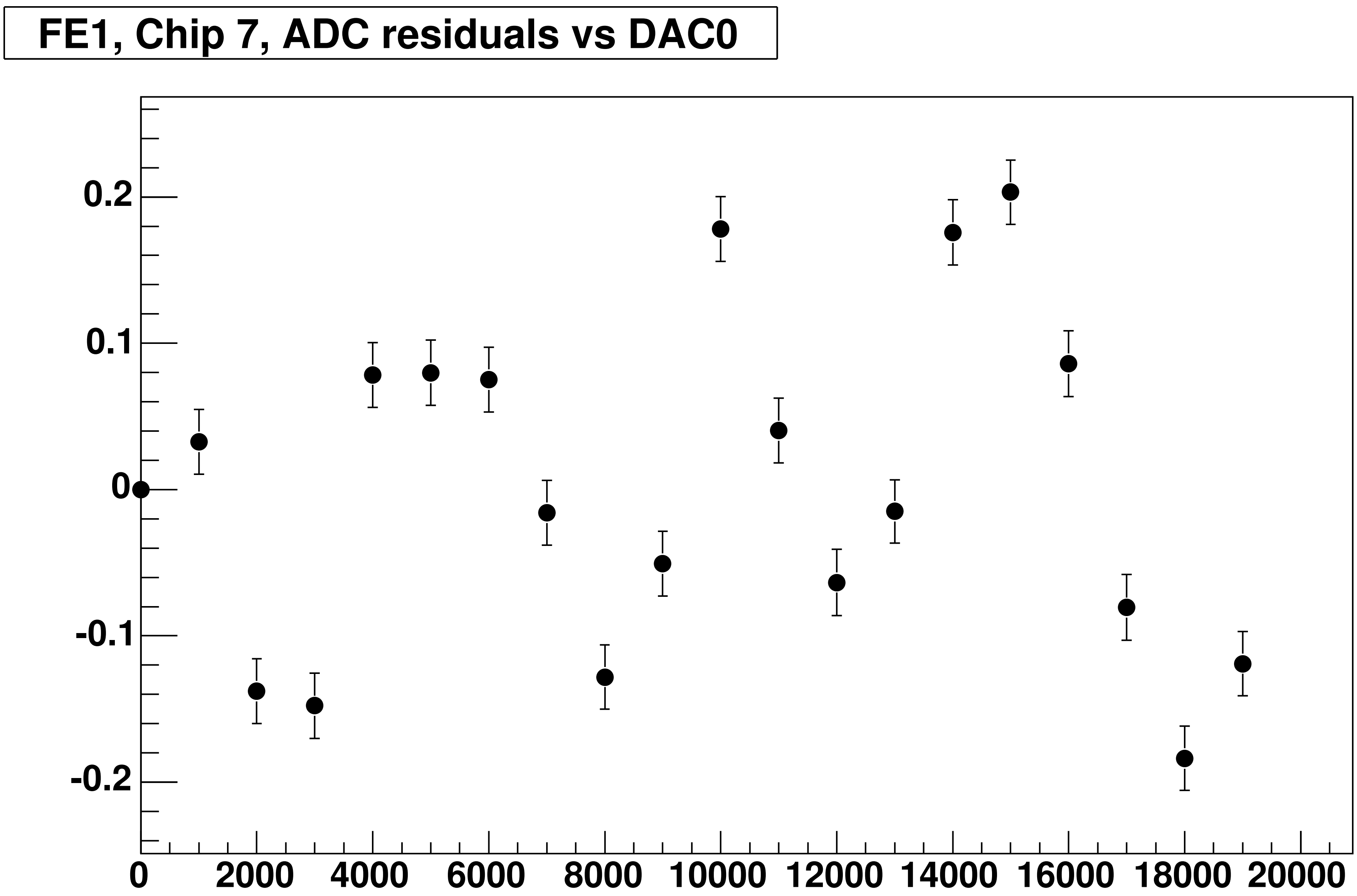

FE1, Chip 6, ADC residuals vs DAC1
4
3
2
1
0
-1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

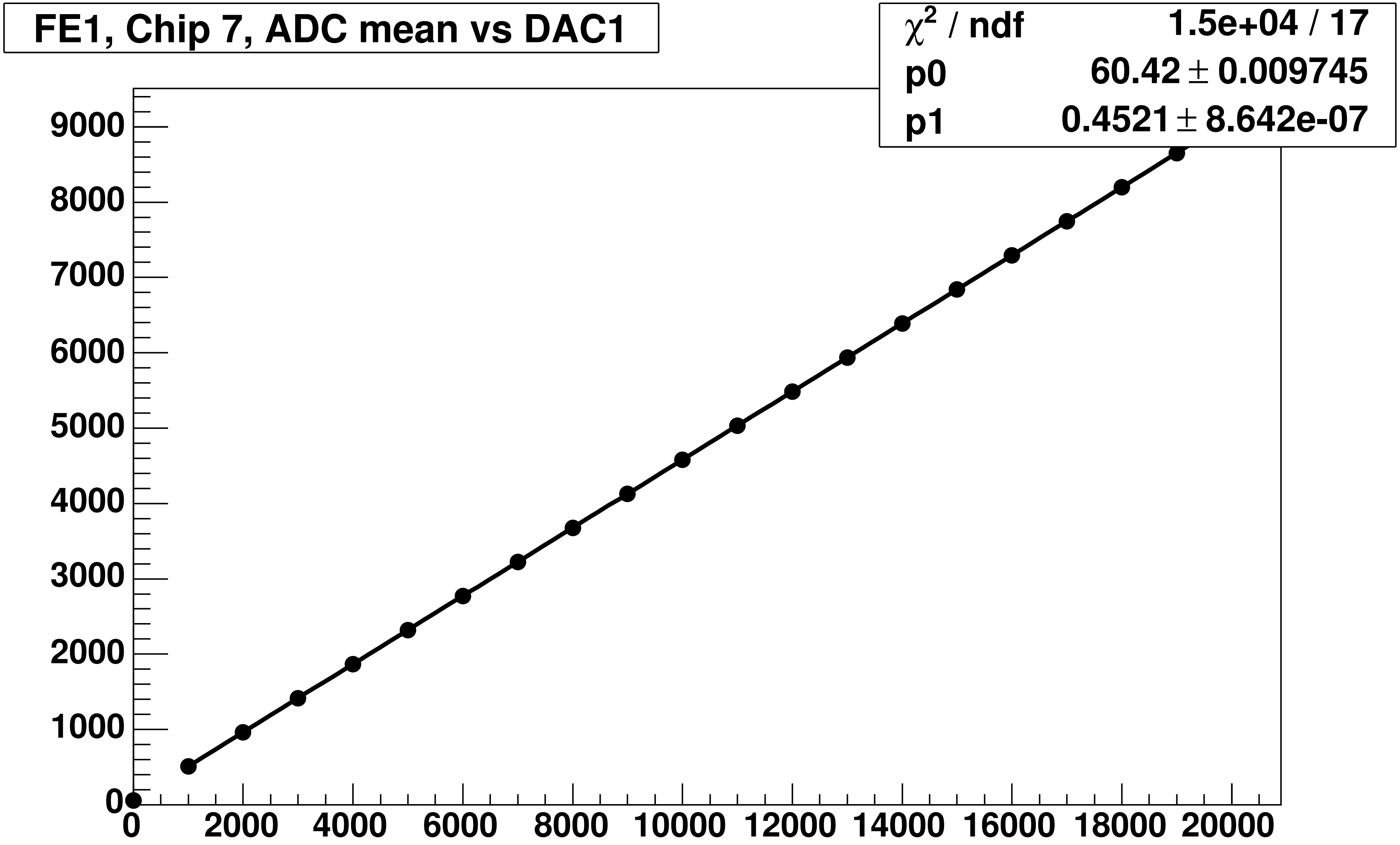


FE1, Chip 7, ADC mean vs DAC0
χ² / ndf 510.9 / 17
p0 60.22 ± 0.01058
p1 2.061e-05 ± 9.282e-07
60.1
60.2
60.3
60.4
60.5
60.6
60.7
60.8
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

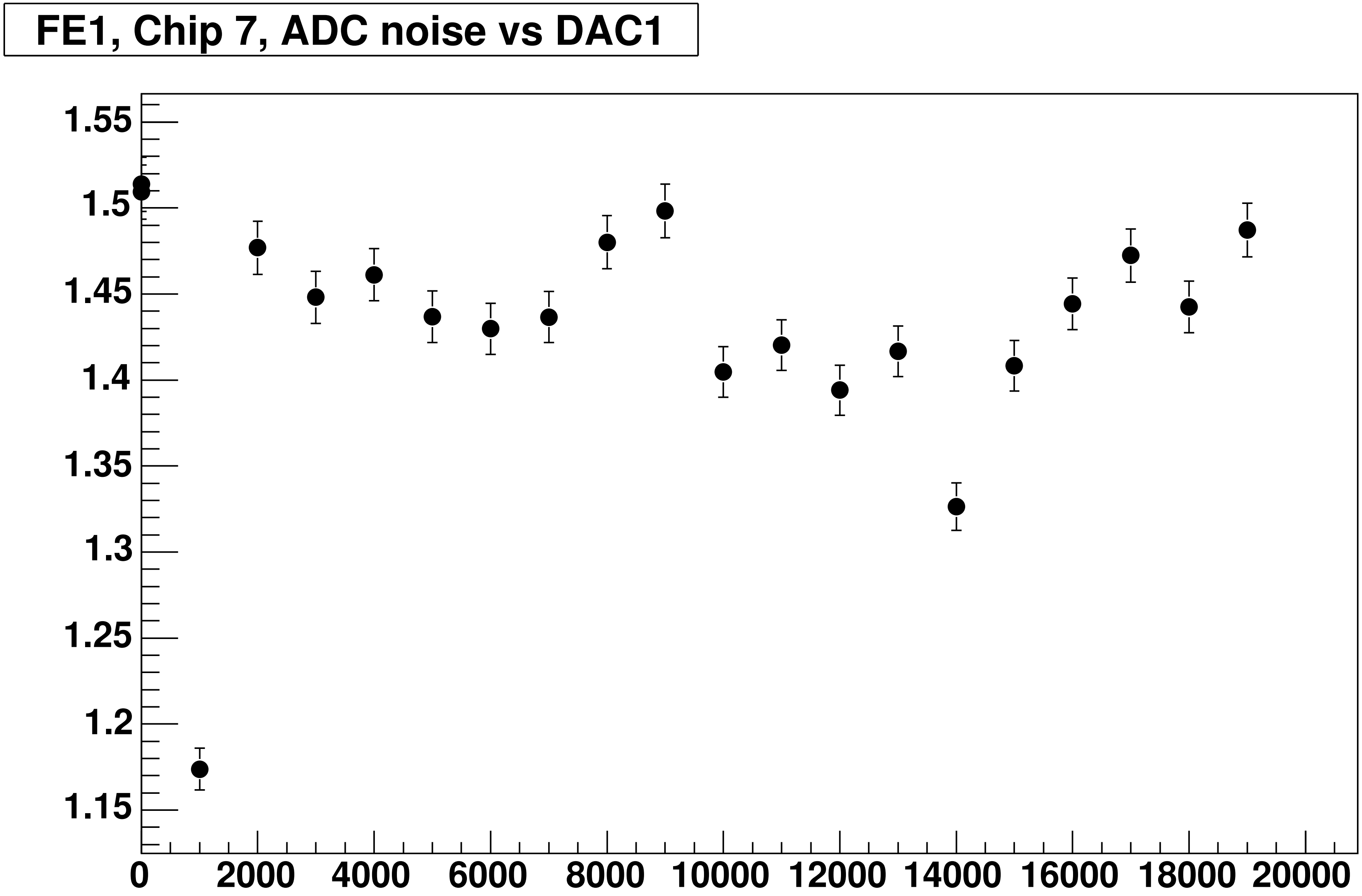
FE1, Chip 7, ADC noise vs DAC0



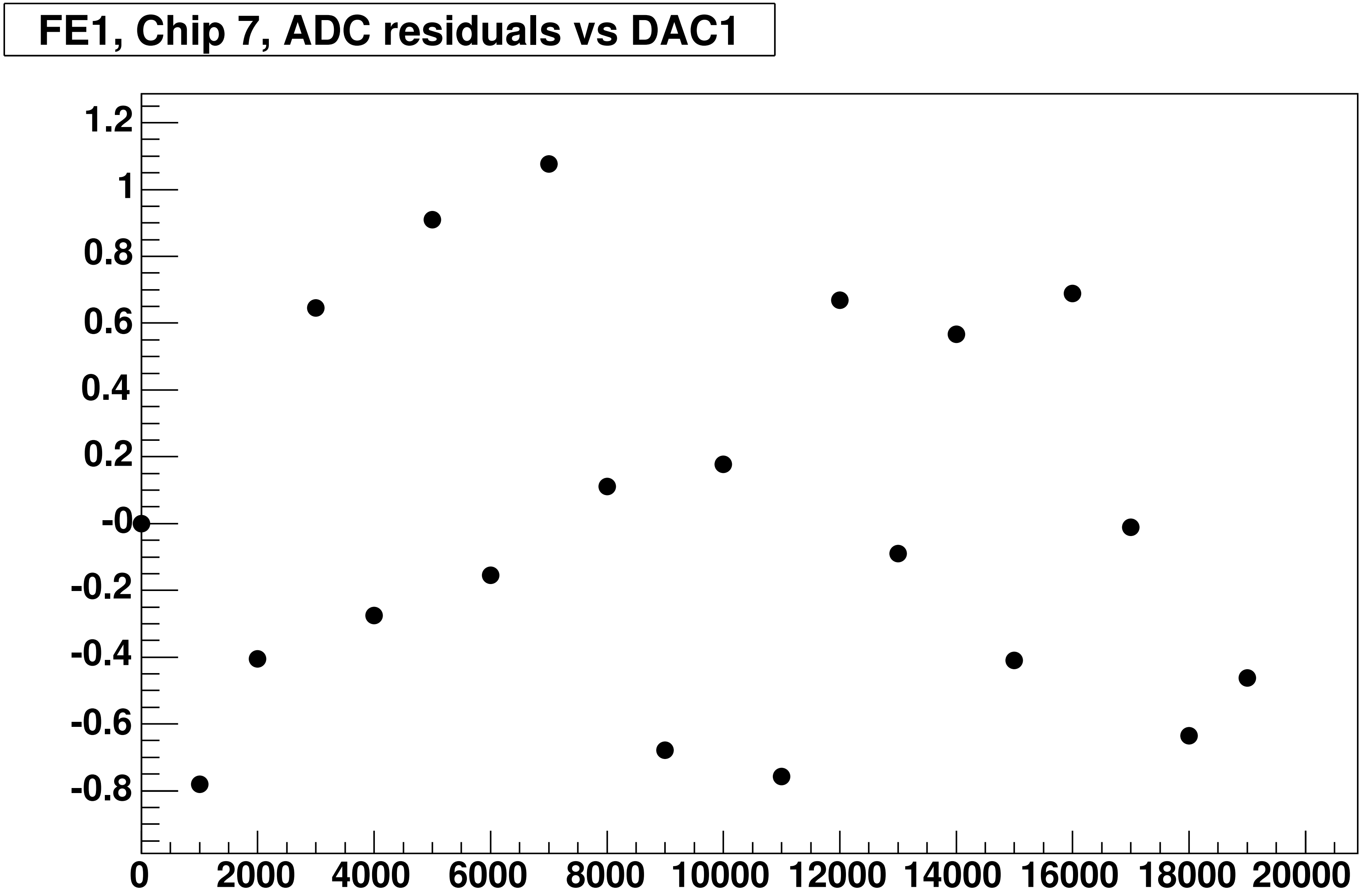

FE1, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

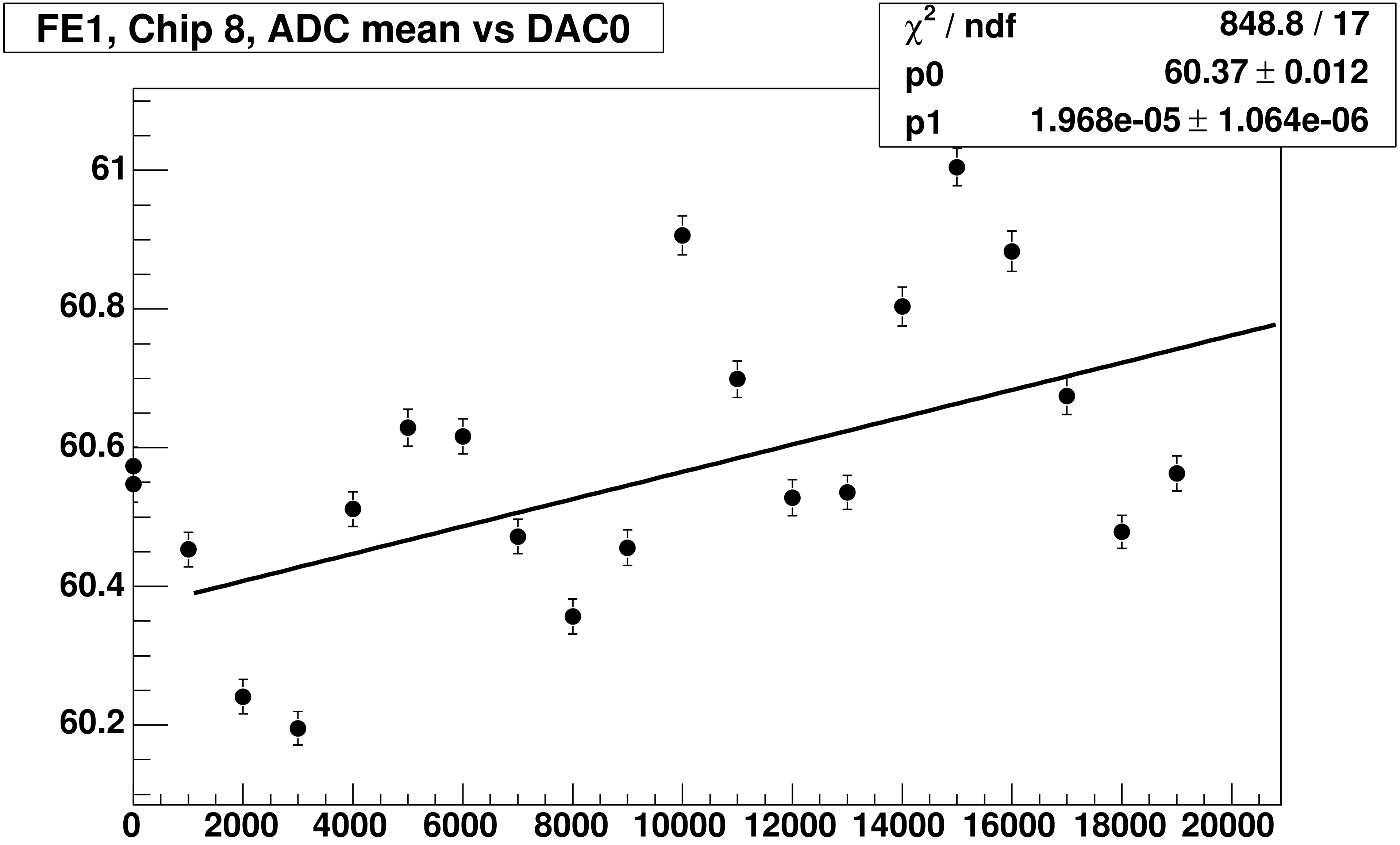


FE1, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 1.5e+04 / 17
p0 60.42 ± 0.009745
p1 0.4521 ± 8.642e-07
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

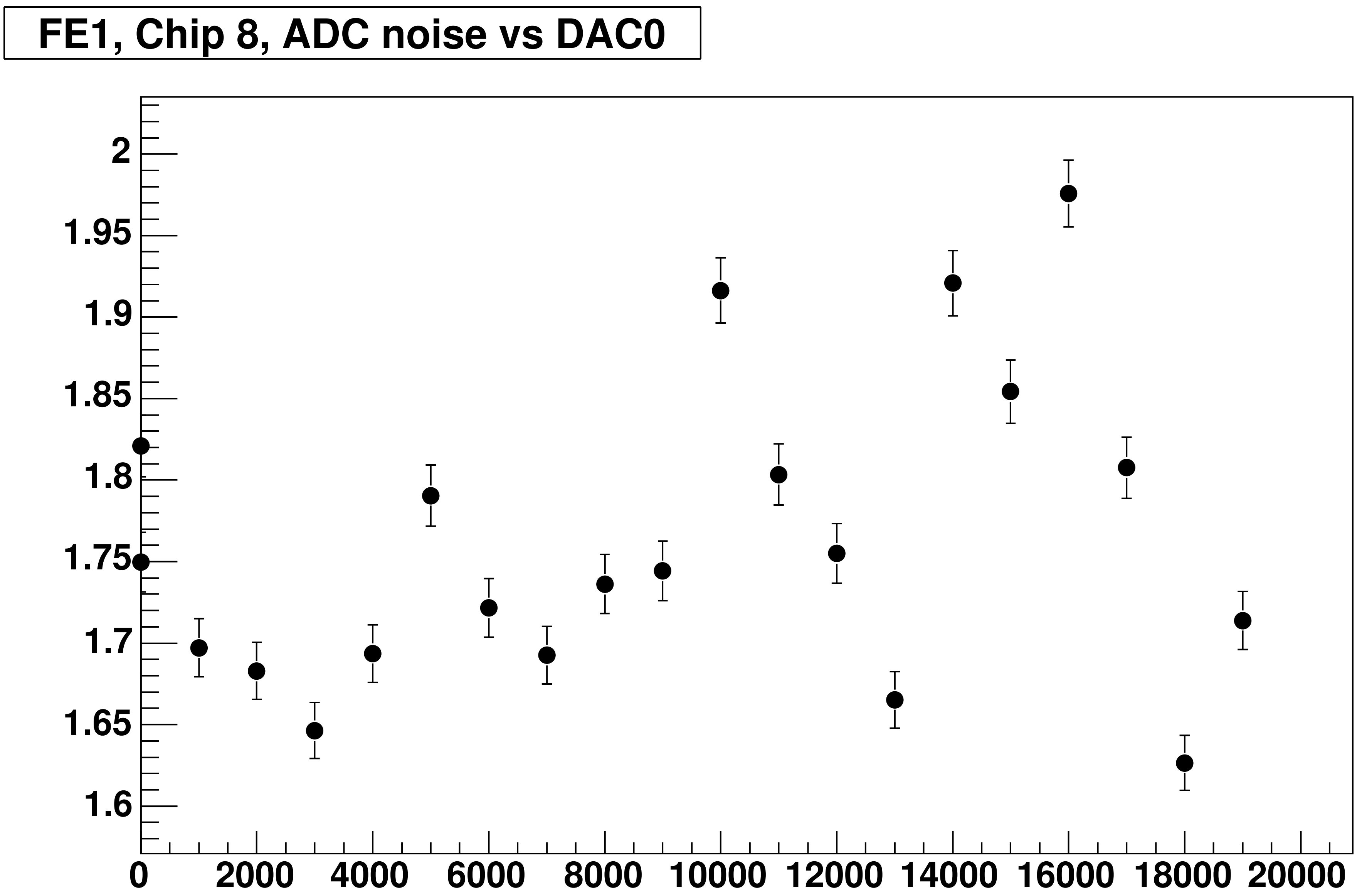


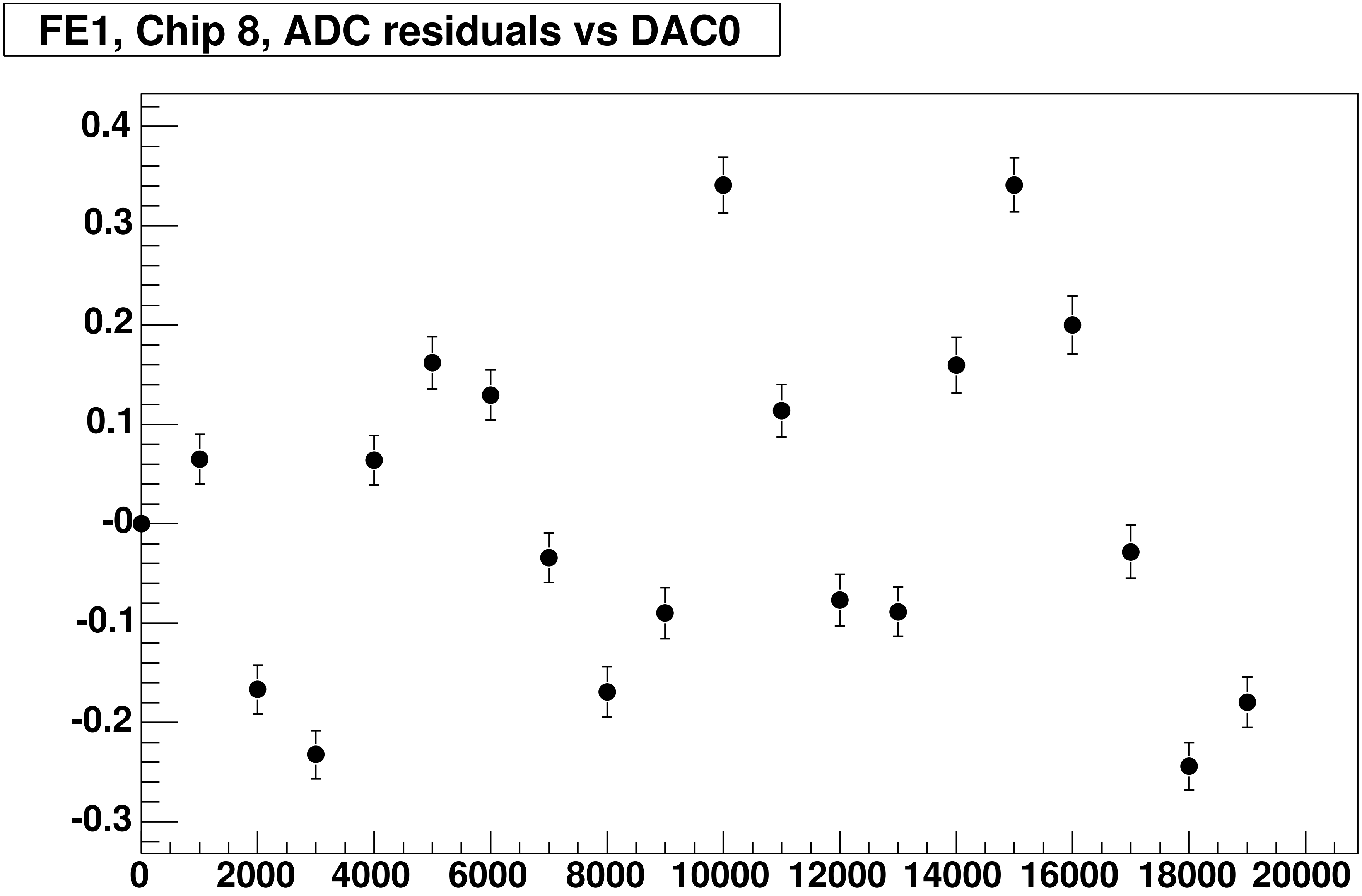
FE1, Chip 7, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
1.3
1.25
1.2
1.15
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

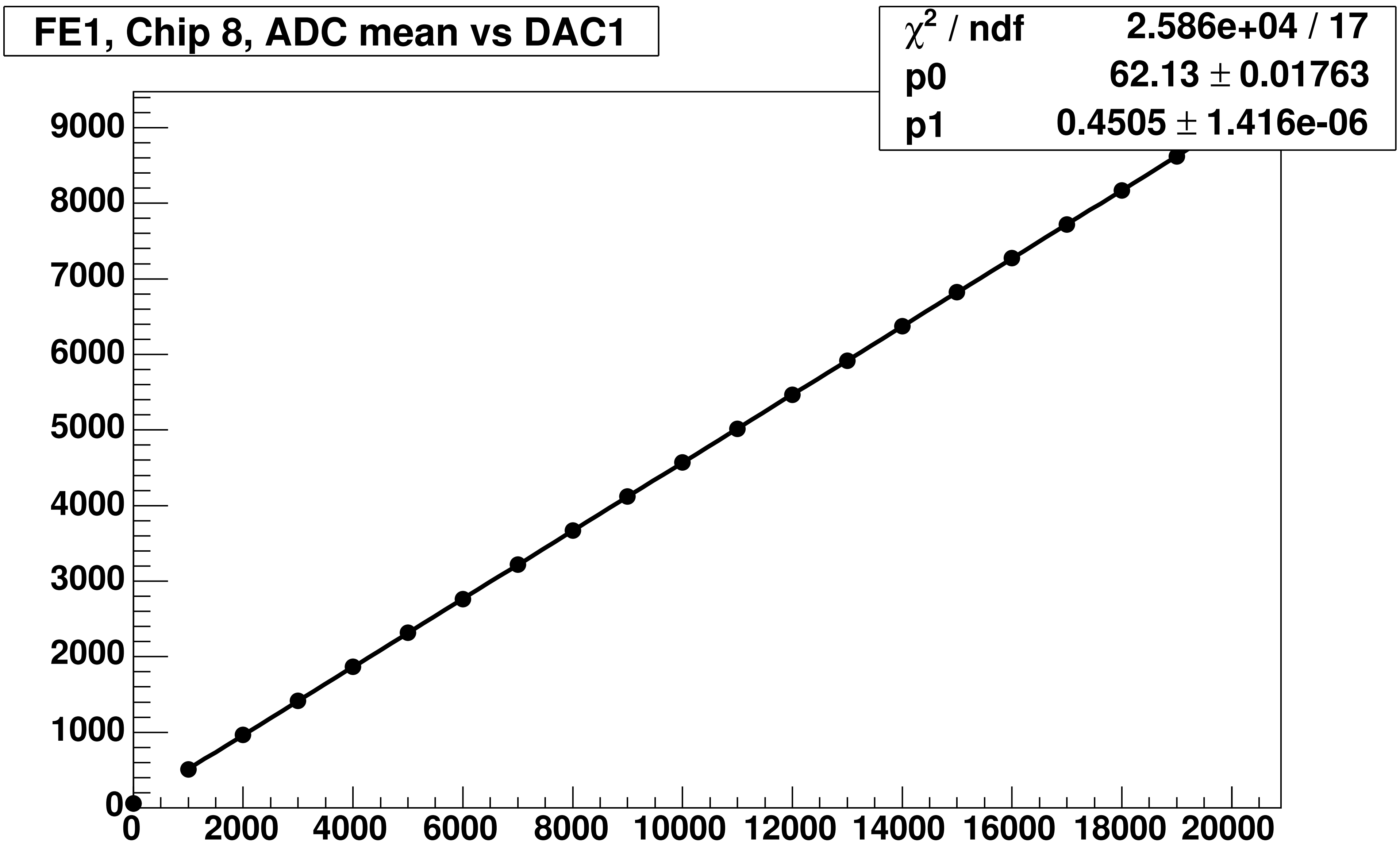

FE1, Chip 7, ADC residuals vs DAC1
1.2
1
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

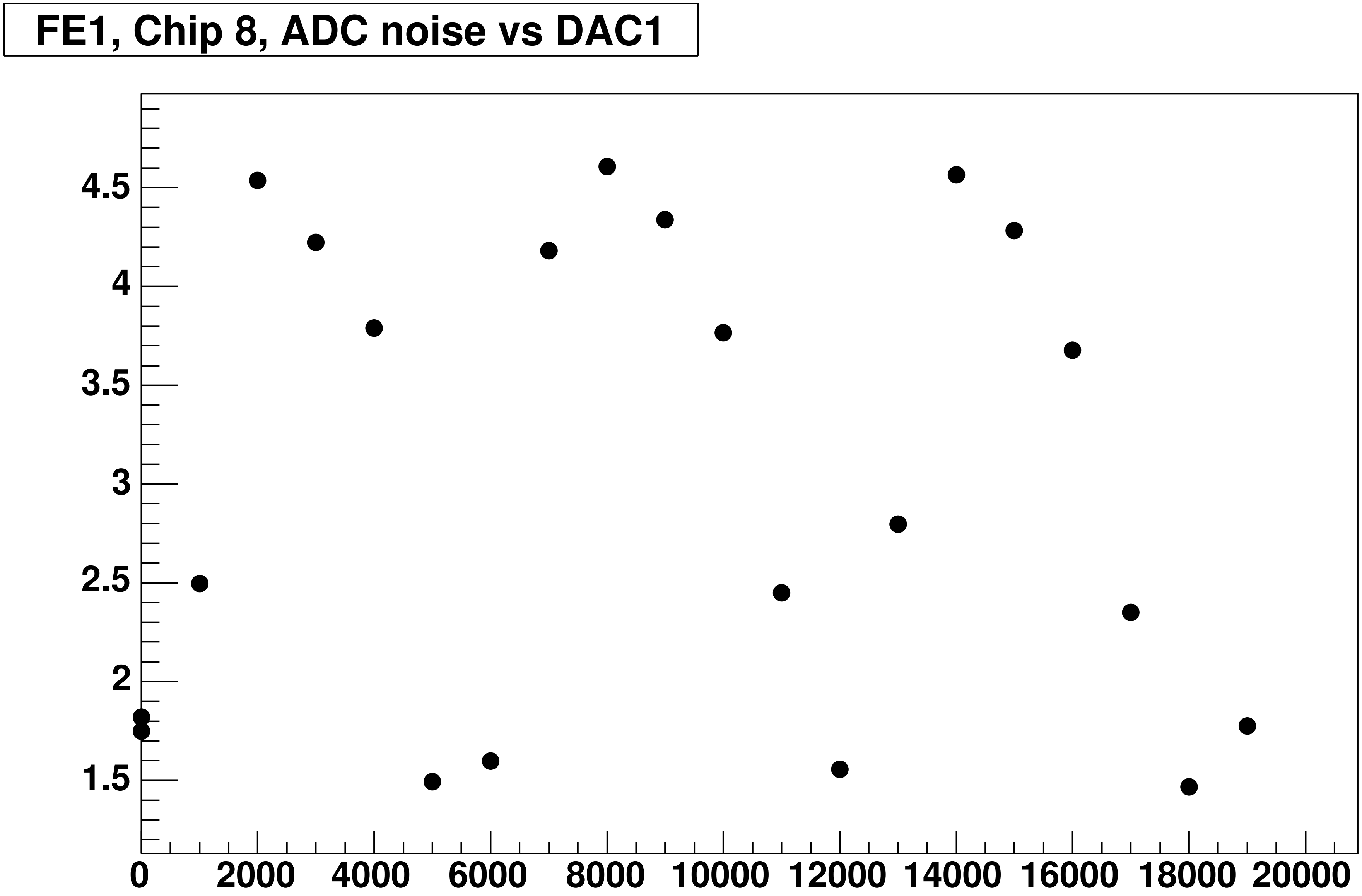


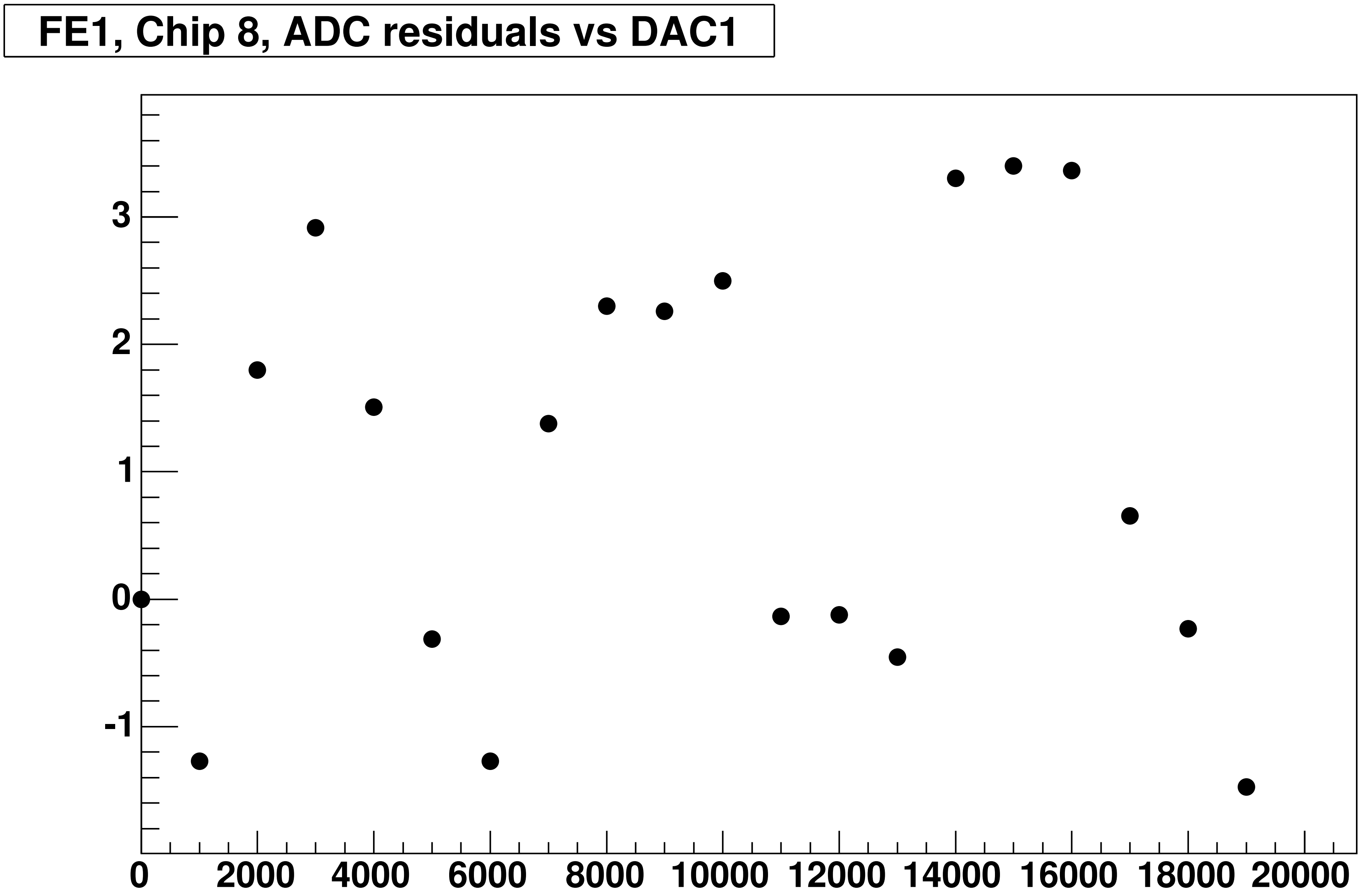
FE1, Chip 8, ADC mean vs DAC0
$\chi^2$ / ndf 848.8 / 17
p0 60.37 ± 0.012
p1 1.968e-05 ± 1.064e-06
61
60.8
60.6
60.4
60.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

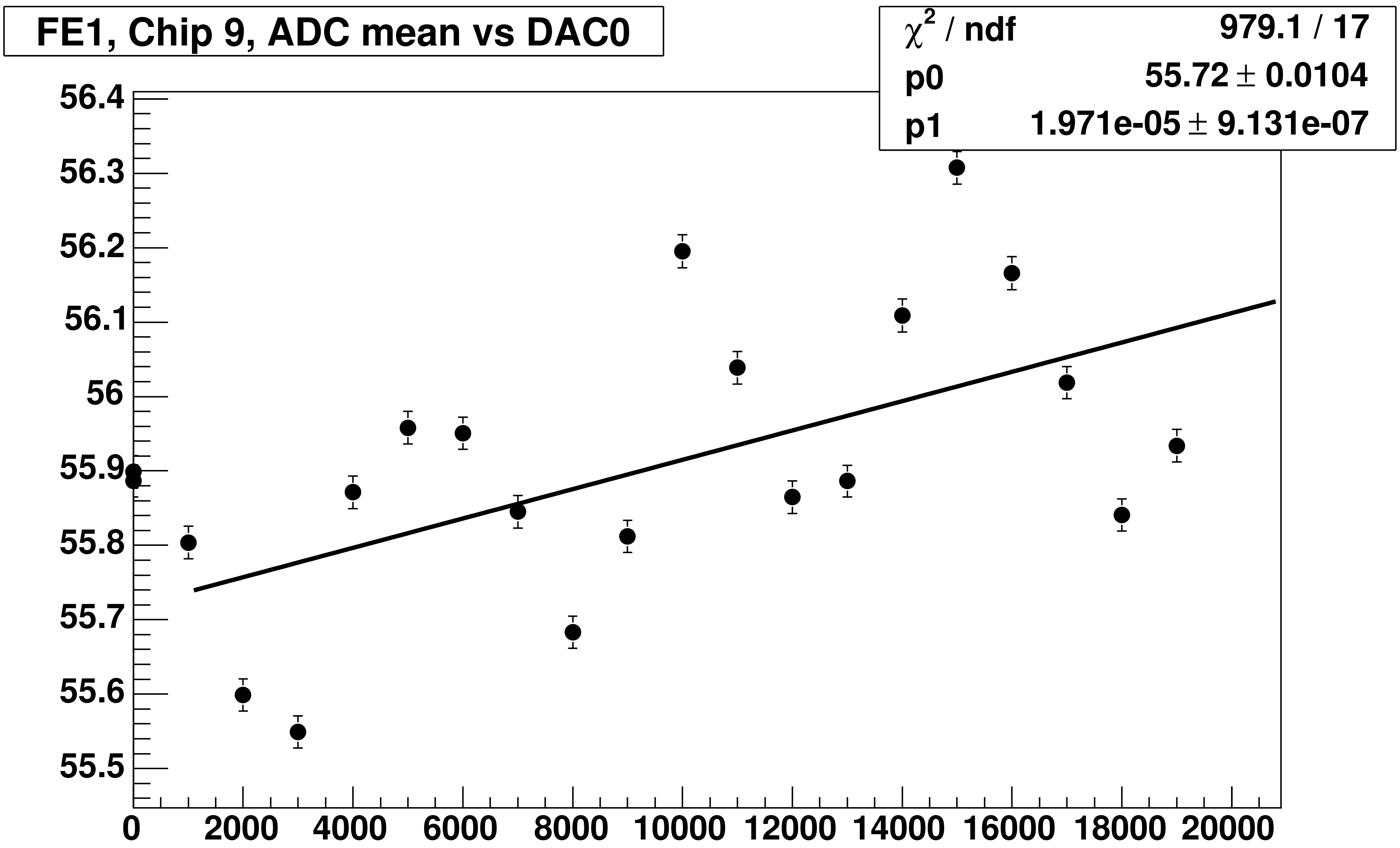

FE1, Chip 8, ADC noise vs DAC0
2
1.95
1.9
1.85
1.8
1.75
1.7
1.65
1.6
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

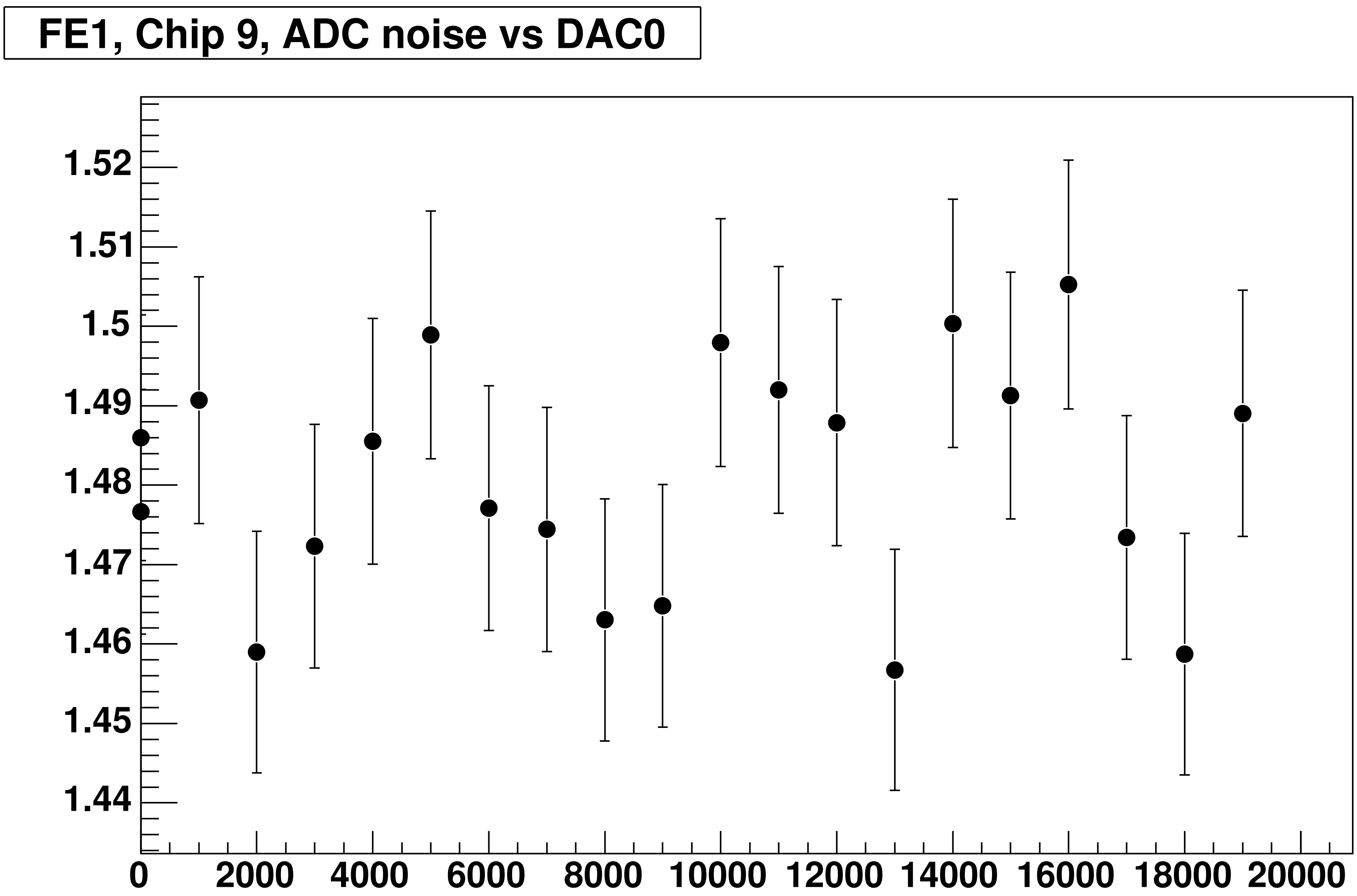

FE1, Chip 8, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

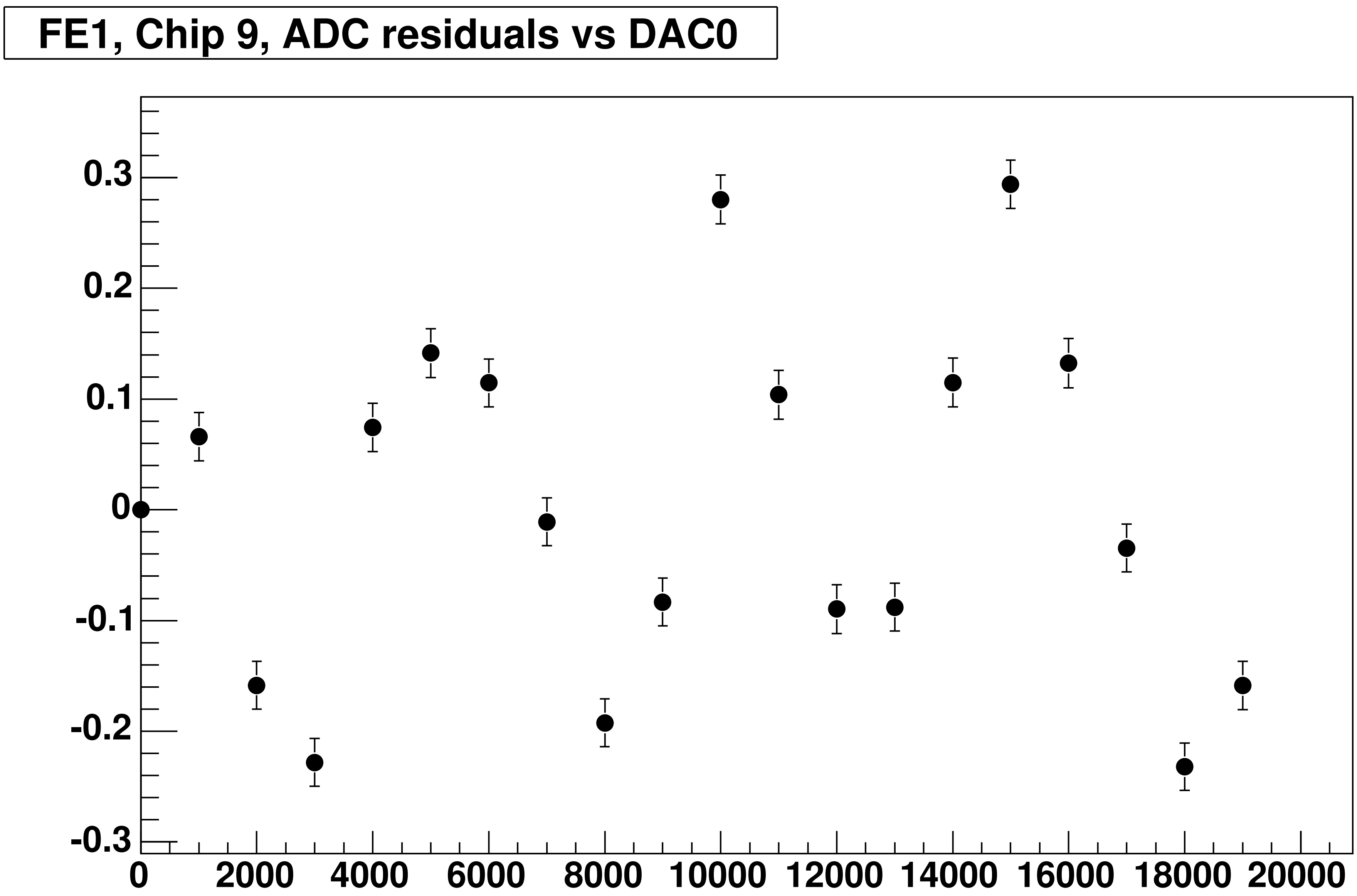

FE1, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 2.586e+04 / 17
p0 62.13 ± 0.01763
p1 0.4505 ± 1.416e-06
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

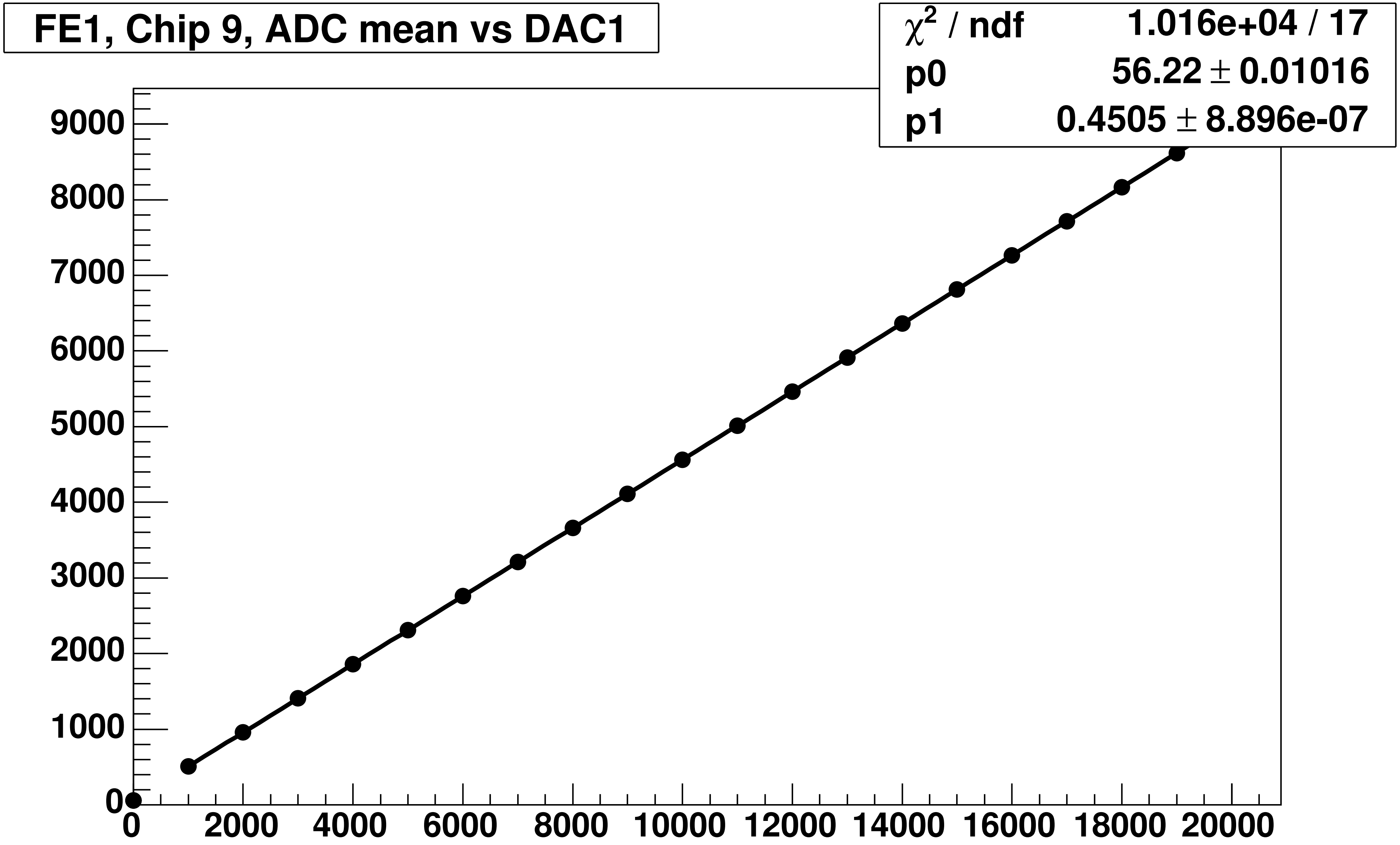

FE1, Chip 8, ADC noise vs DAC1
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE1, Chip 8, ADC residuals vs DAC1
3
2
1
0
-1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

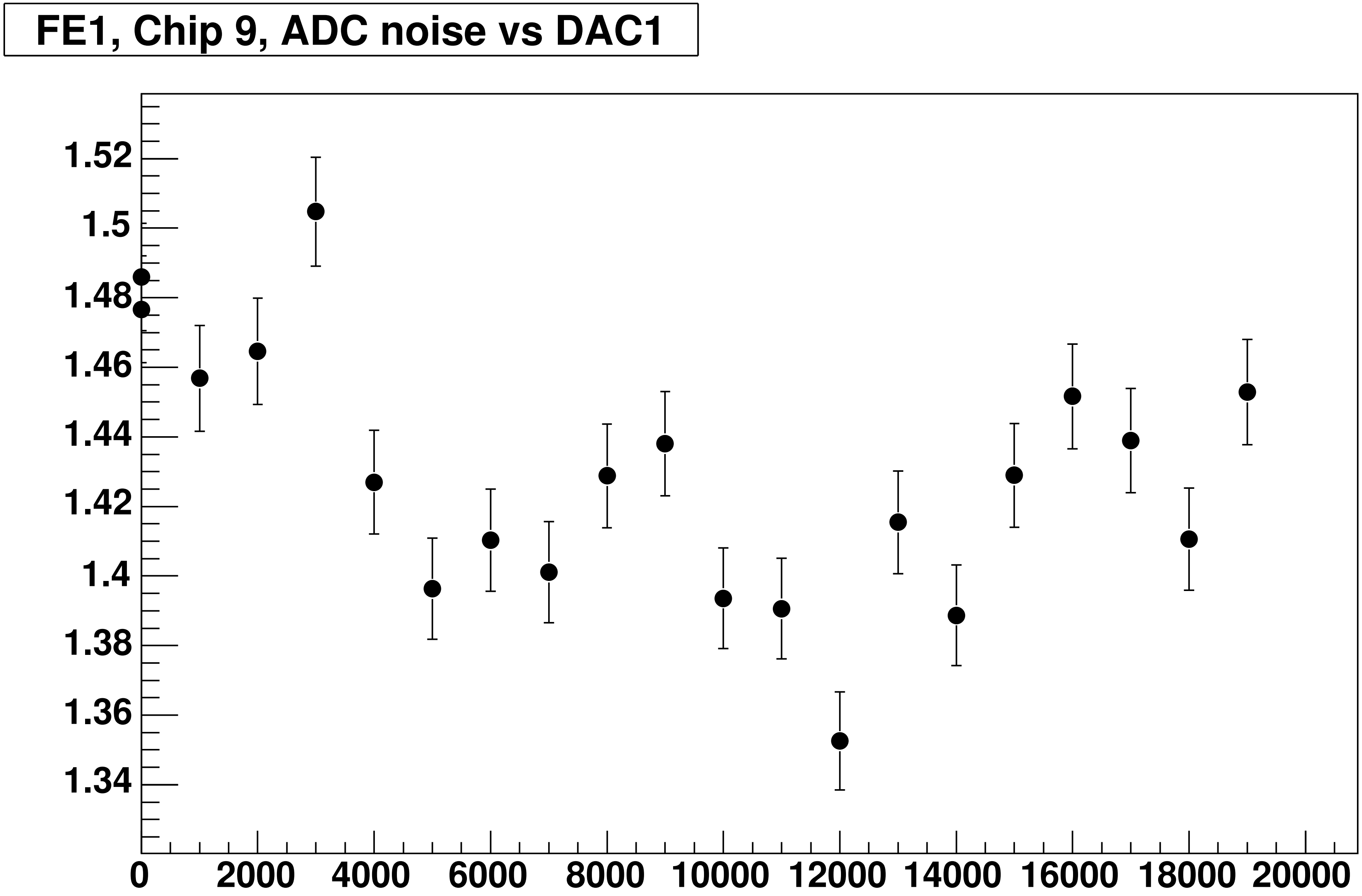

FE1, Chip 9, ADC mean vs DAC0
χ² / ndf 979.1 / 17
p0 55.72 ± 0.0104
p1 1.971e-05 ± 9.131e-07
56.4
56.3
56.2
56.1
56
55.9
55.8
55.7
55.6
55.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

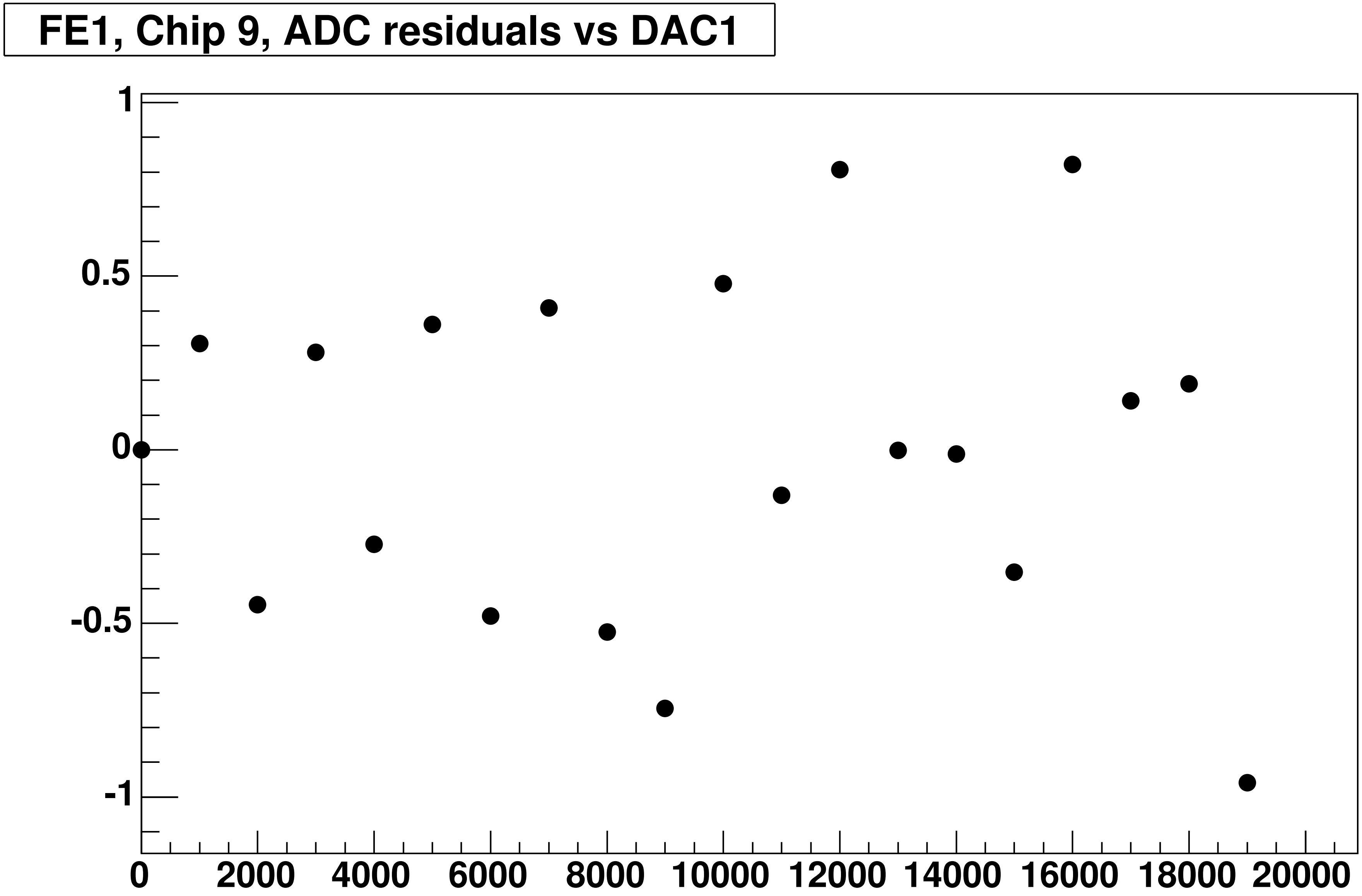

FE1, Chip 9, ADC noise vs DAC0
1.52
1.51
1.5
1.49
1.48
1.47
1.46
1.45
1.44
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

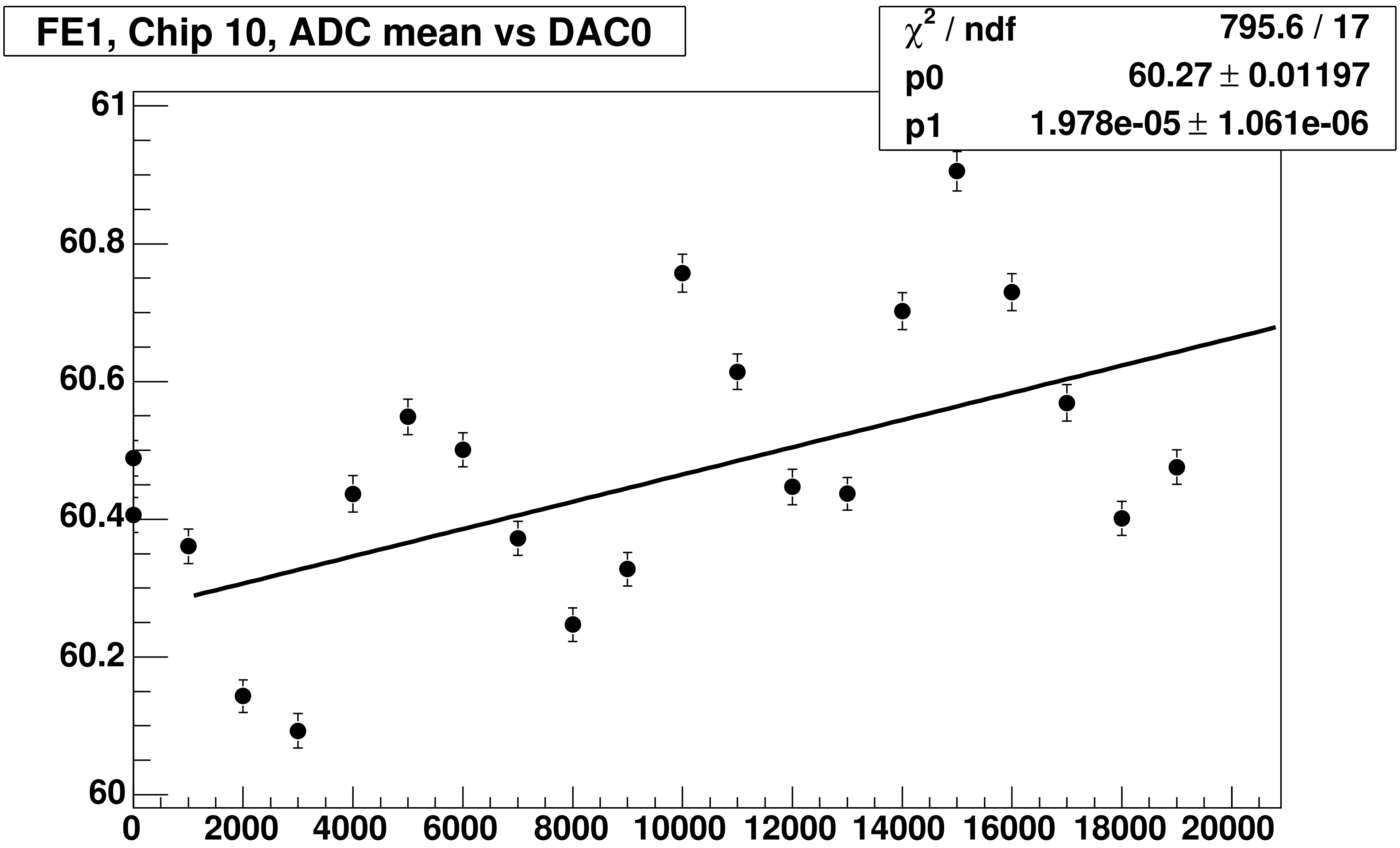

FE1, Chip 9, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



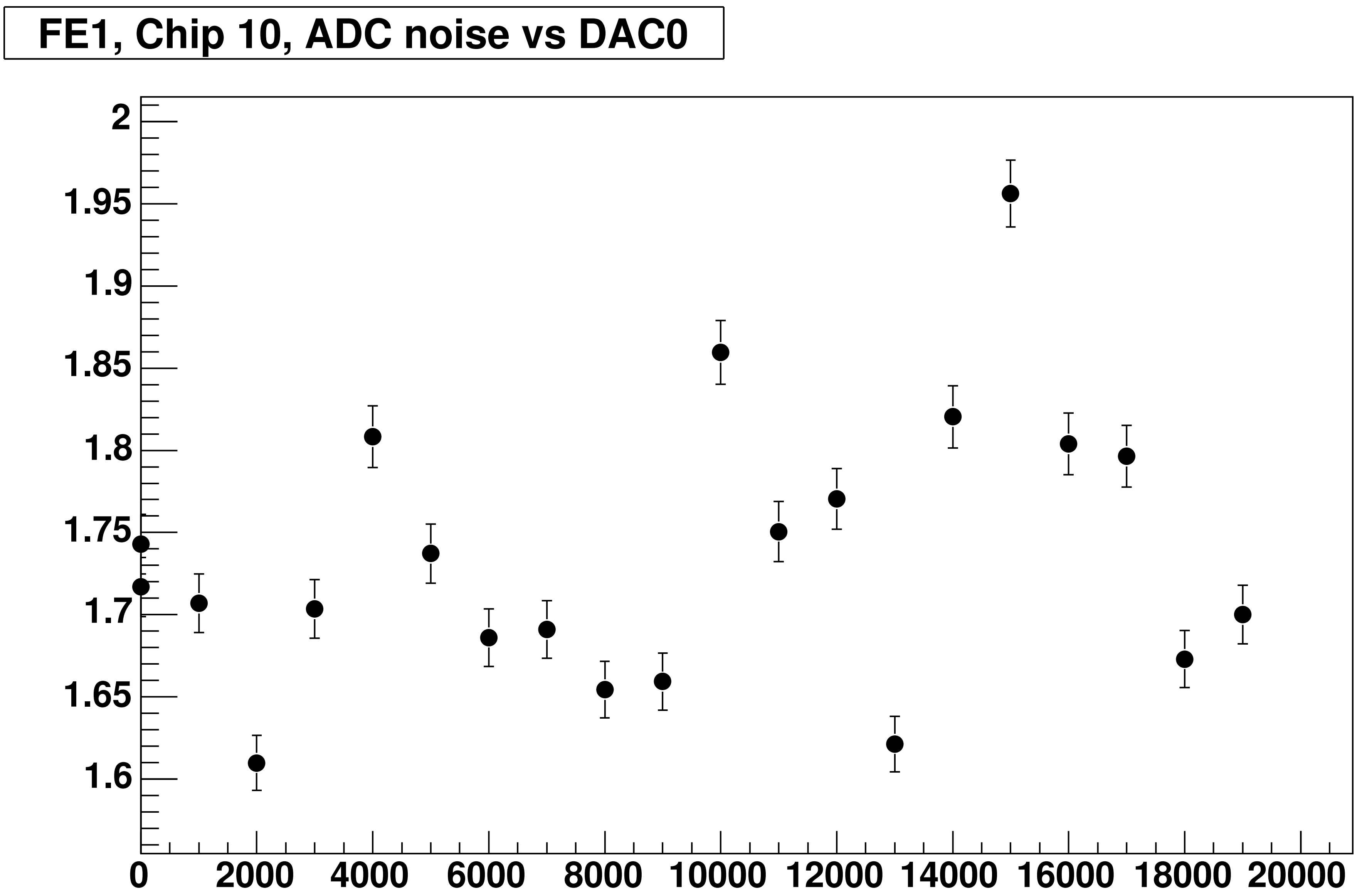
FE1, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 1.016e+04 / 17
p0 56.22 ± 0.01016
p1 0.4505 ± 8.896e-07
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

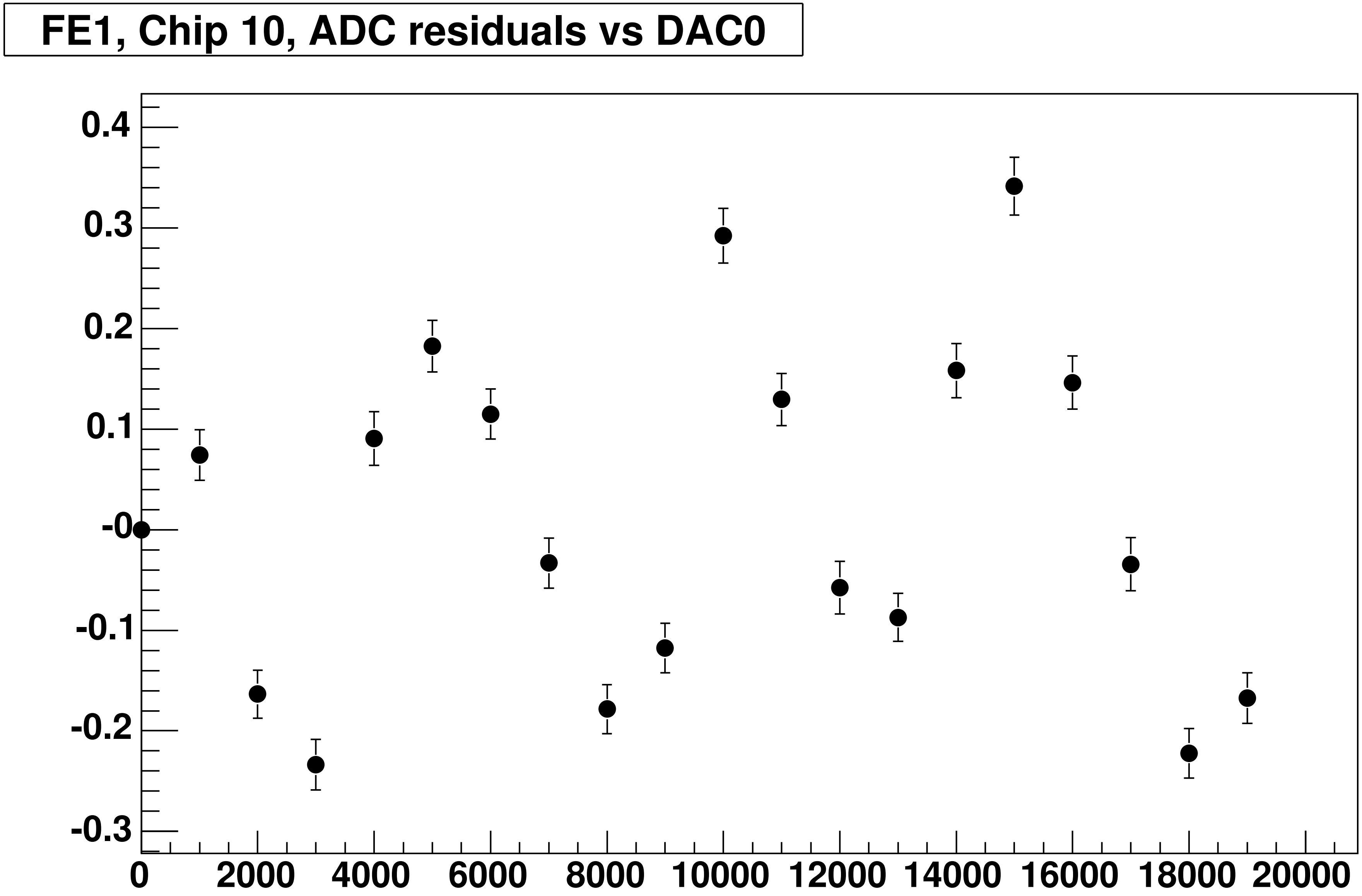

FE1, Chip 9, ADC noise vs DAC1
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
1.34
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

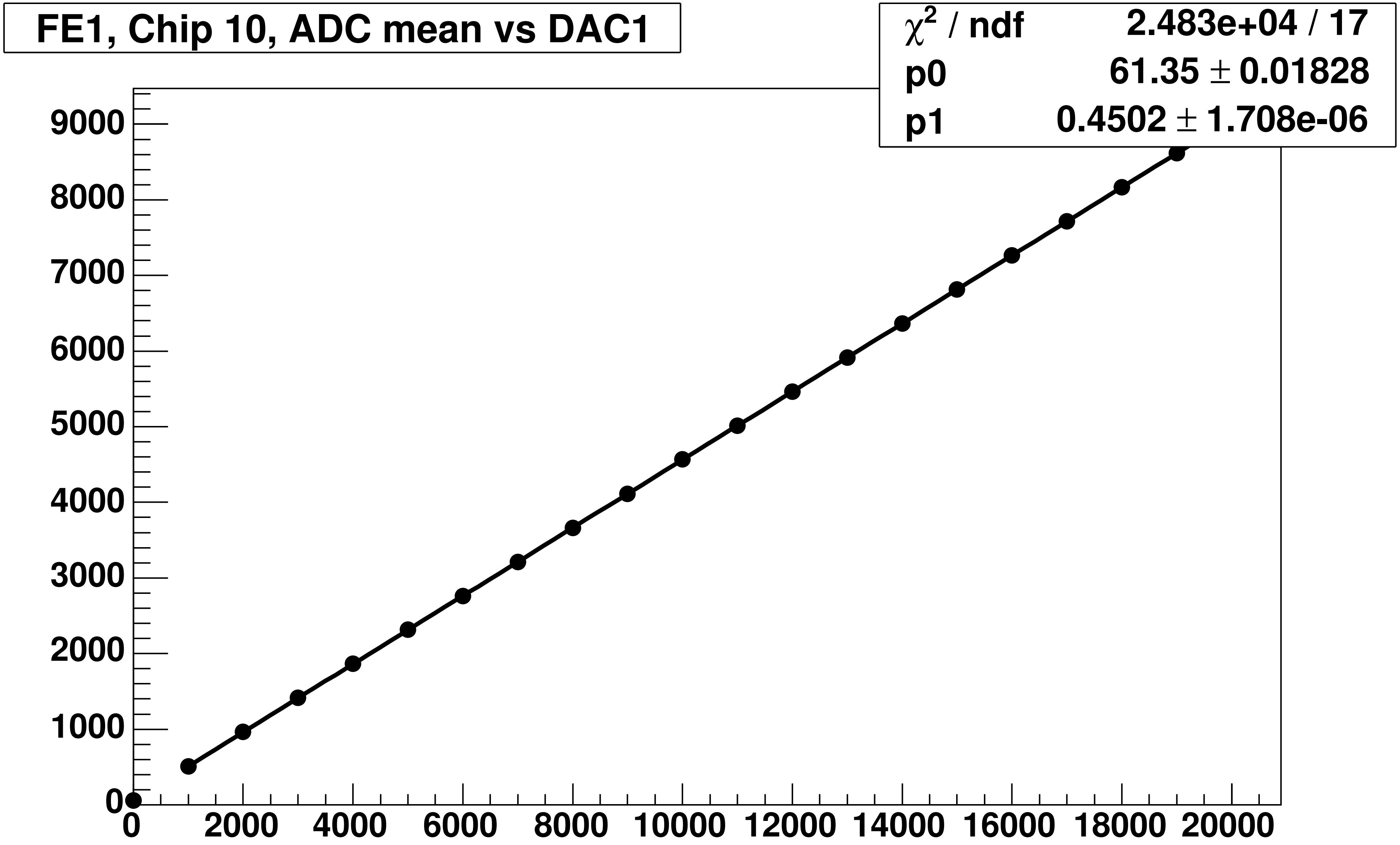

FE1, Chip 9, ADC residuals vs DAC1
1
0.5
0
-0.5
-1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



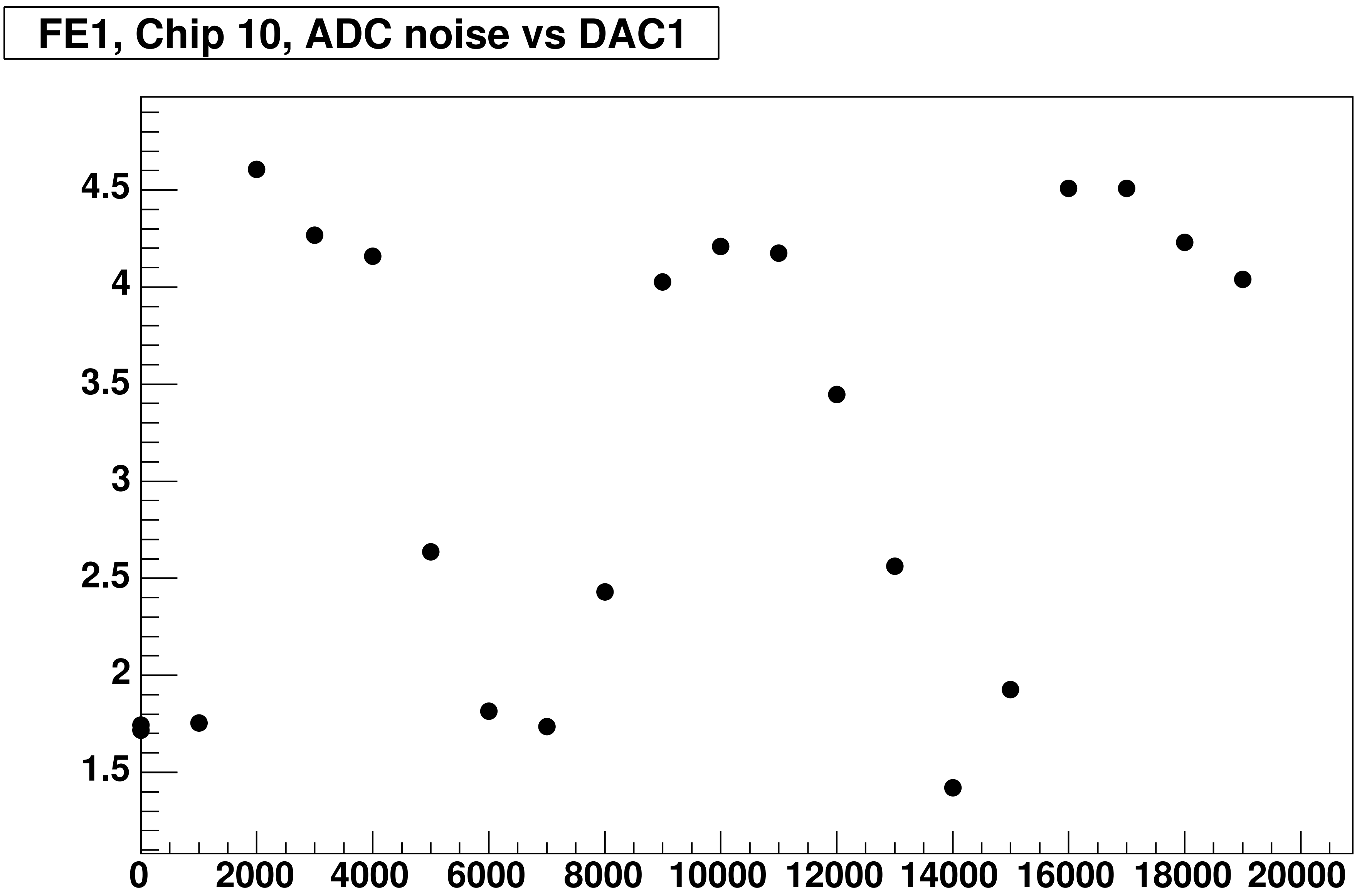
FE1, Chip 10, ADC mean vs DAC0
χ² / ndf 795.6 / 17
p0 60.27 ± 0.01197
p1 1.978e-05 ± 1.061e-06
61
60.8
60.6
60.4
60.2
60
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

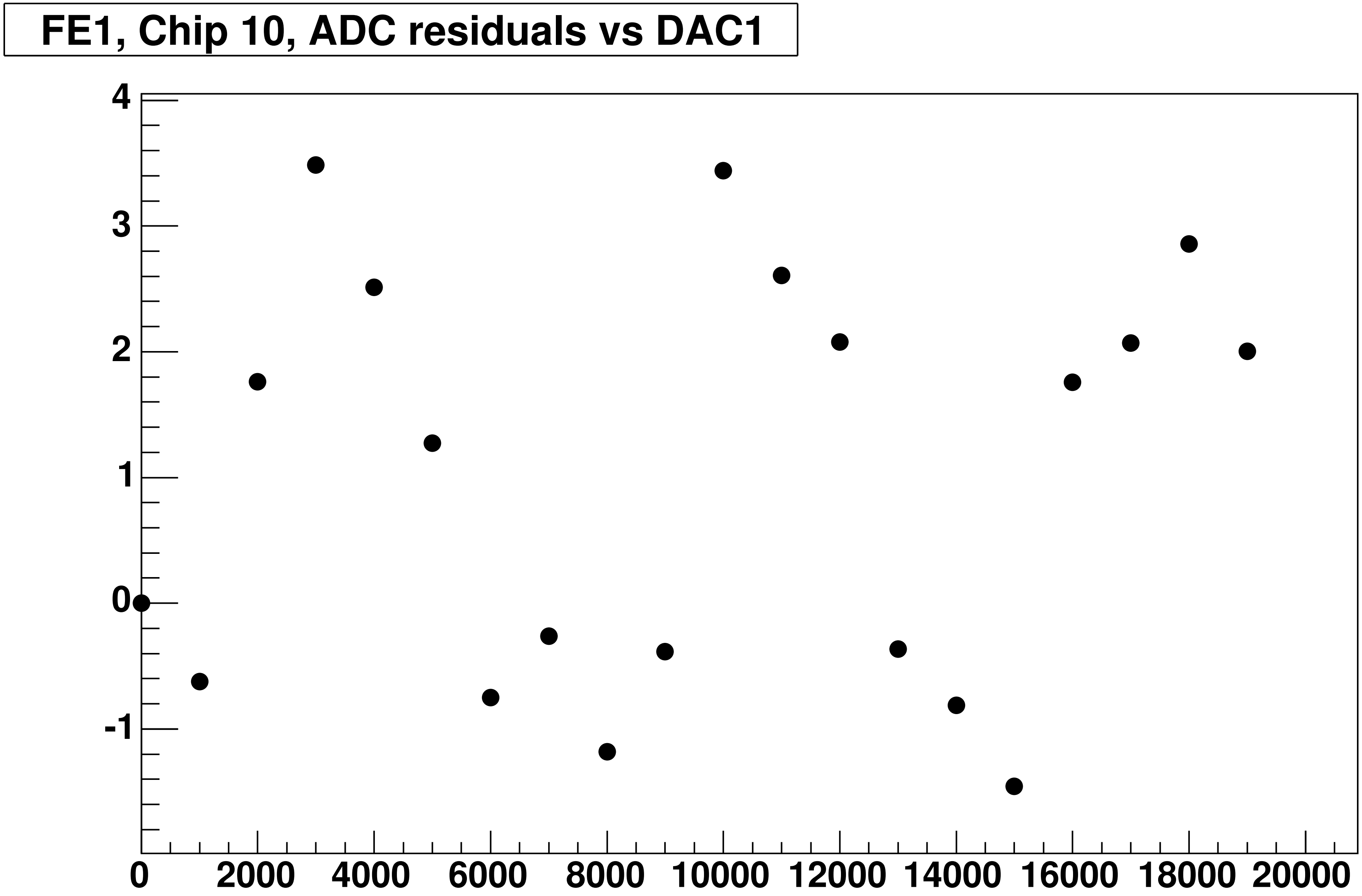

FE1, Chip 10, ADC noise vs DAC0
2
1.95
1.9
1.85
1.8
1.75
1.7
1.65
1.6
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

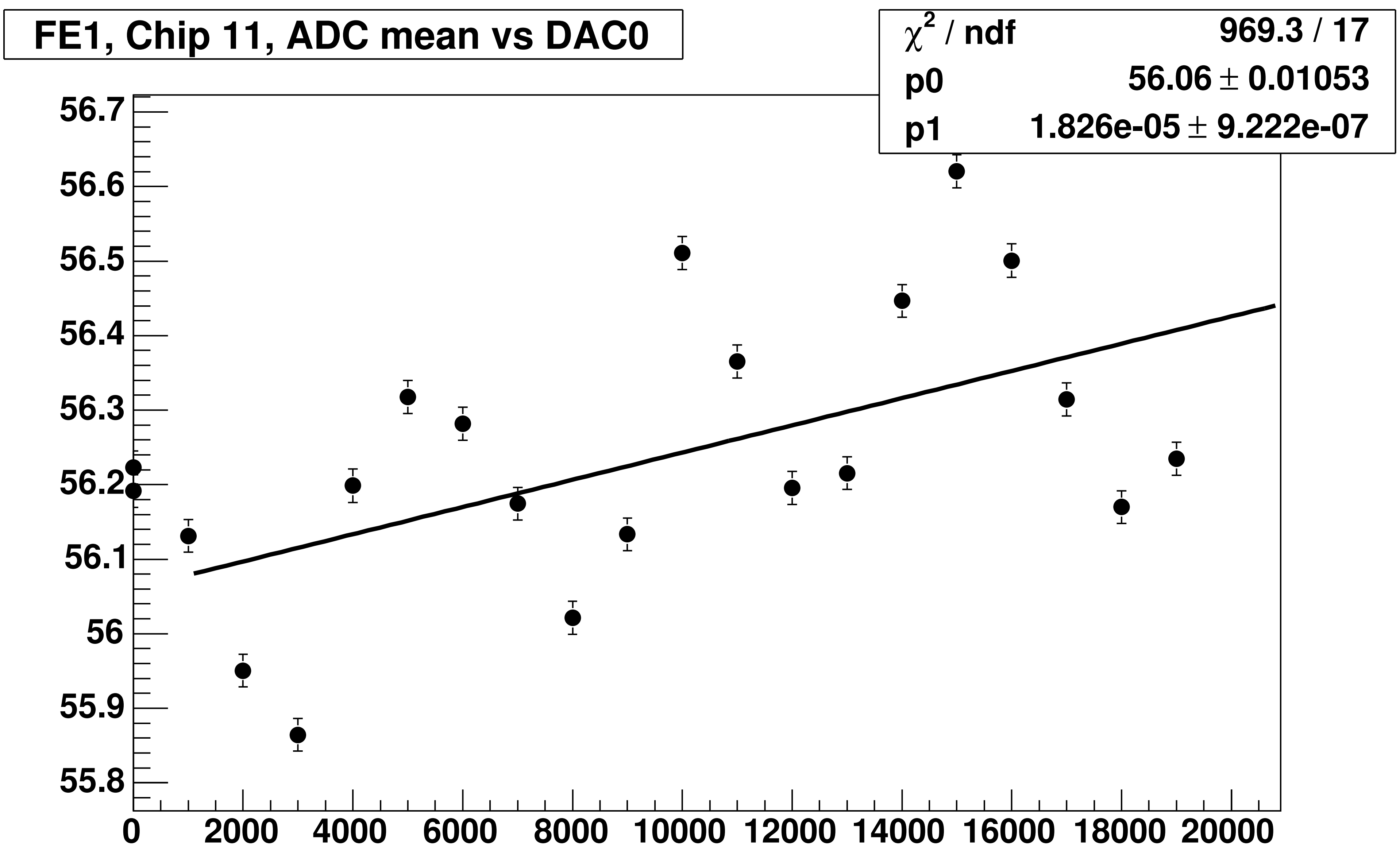

FE1, Chip 10, ADC residuals vs DAC0
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



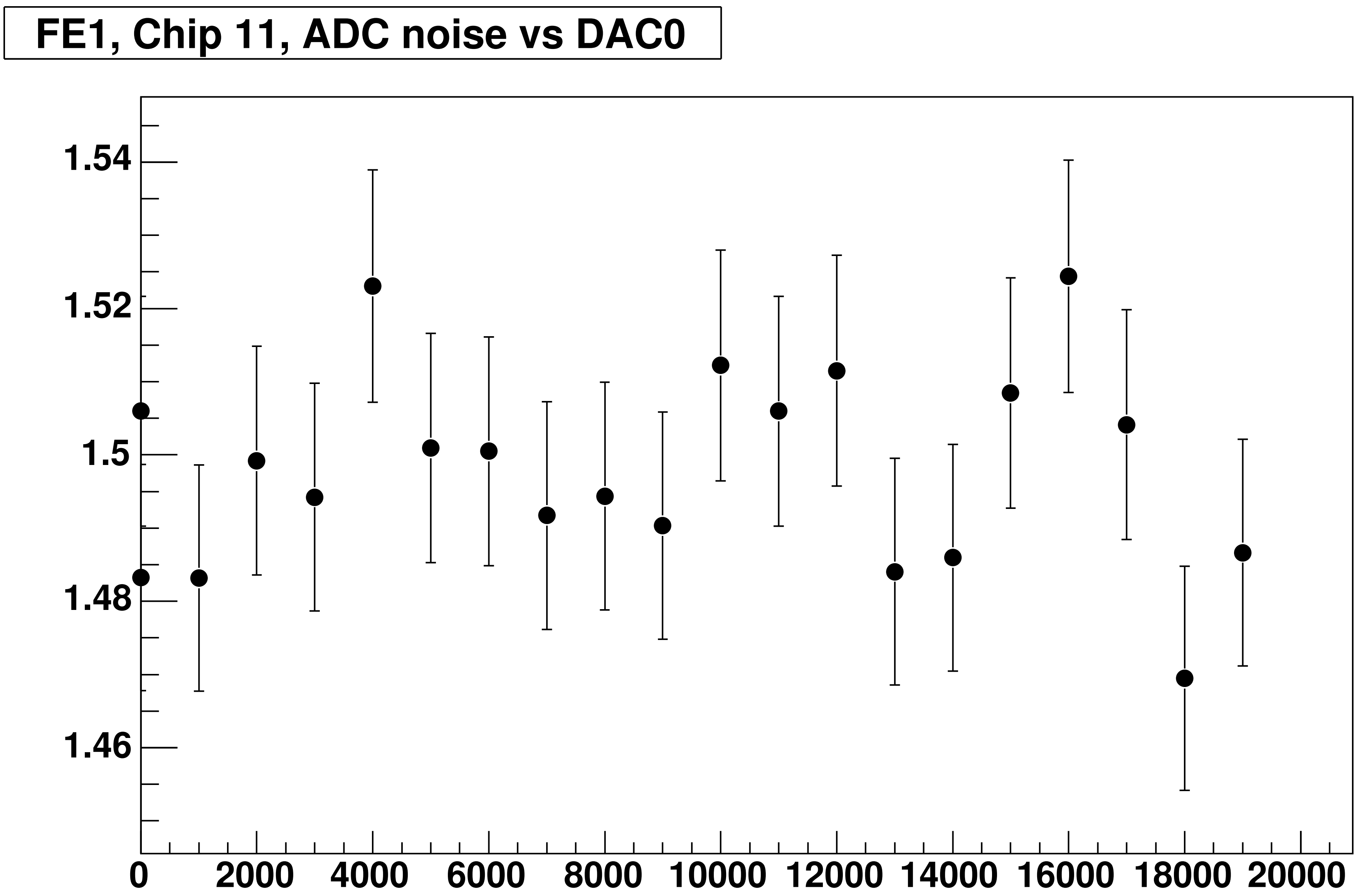
FE1, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 2.483e+04 / 17
p0 61.35 ± 0.01828
p1 0.4502 ± 1.708e-06
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

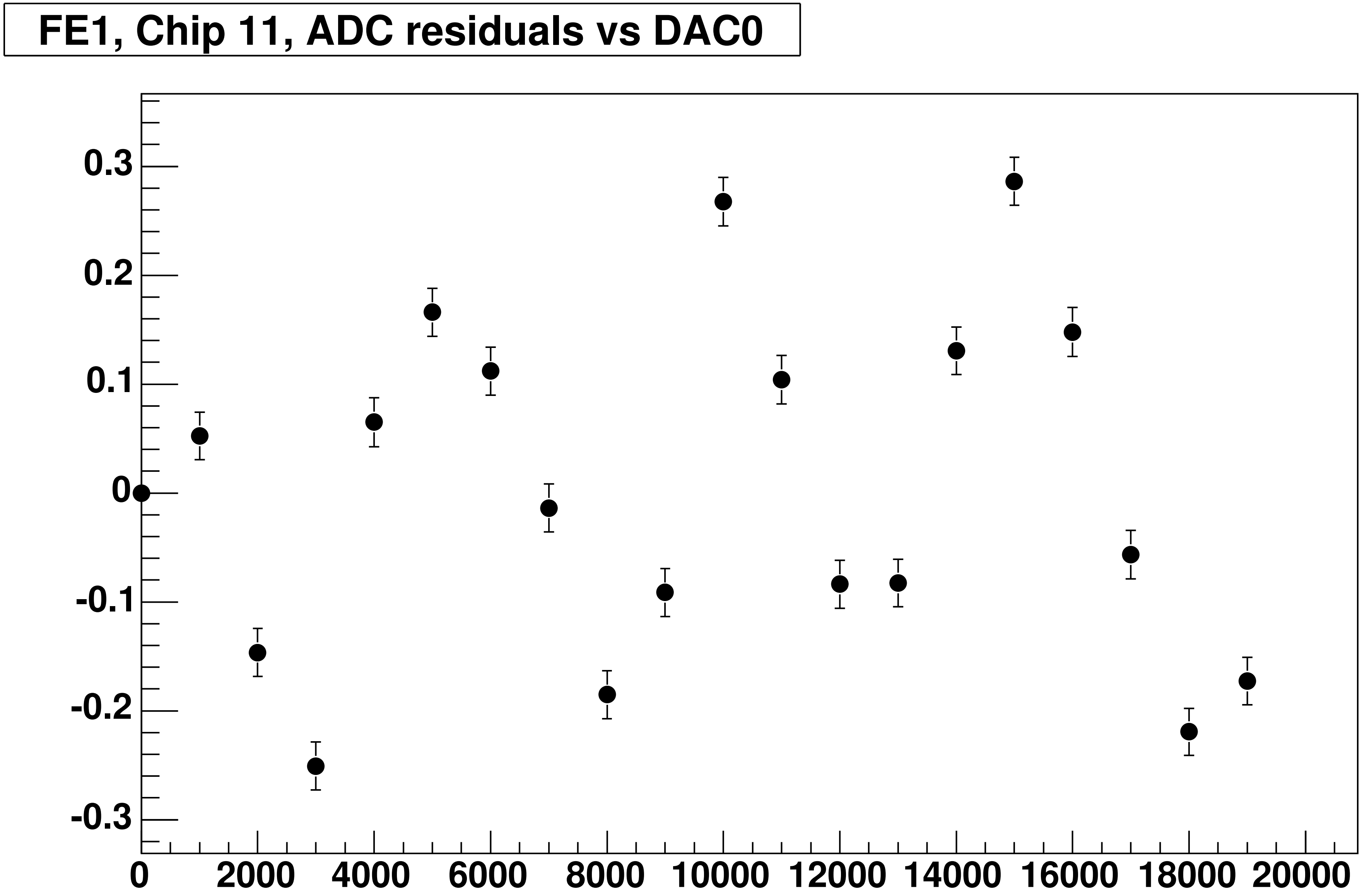

FE1, Chip 10, ADC noise vs DAC1
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

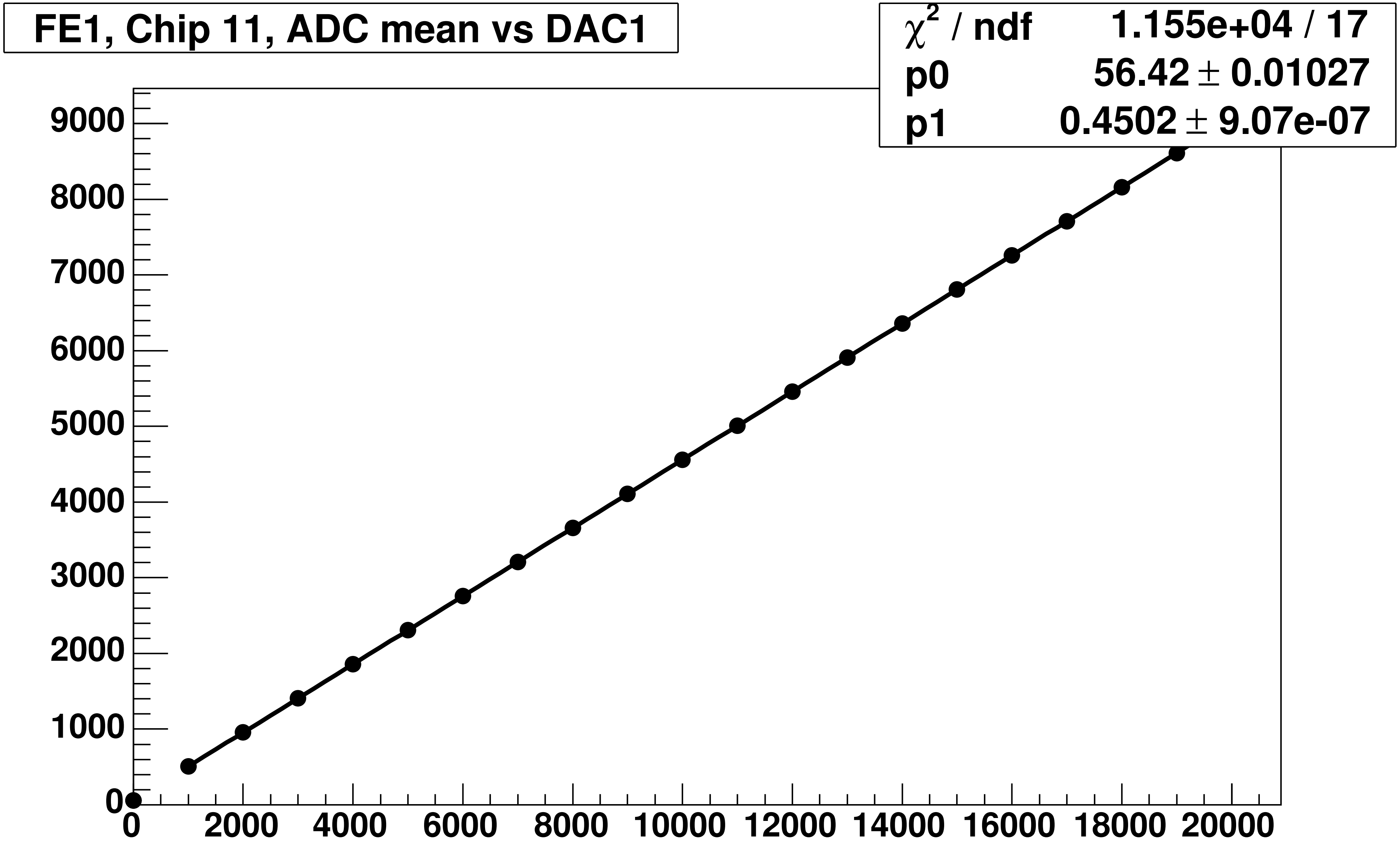

FE1, Chip 10, ADC residuals vs DAC1
4
3
2
1
0
-1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

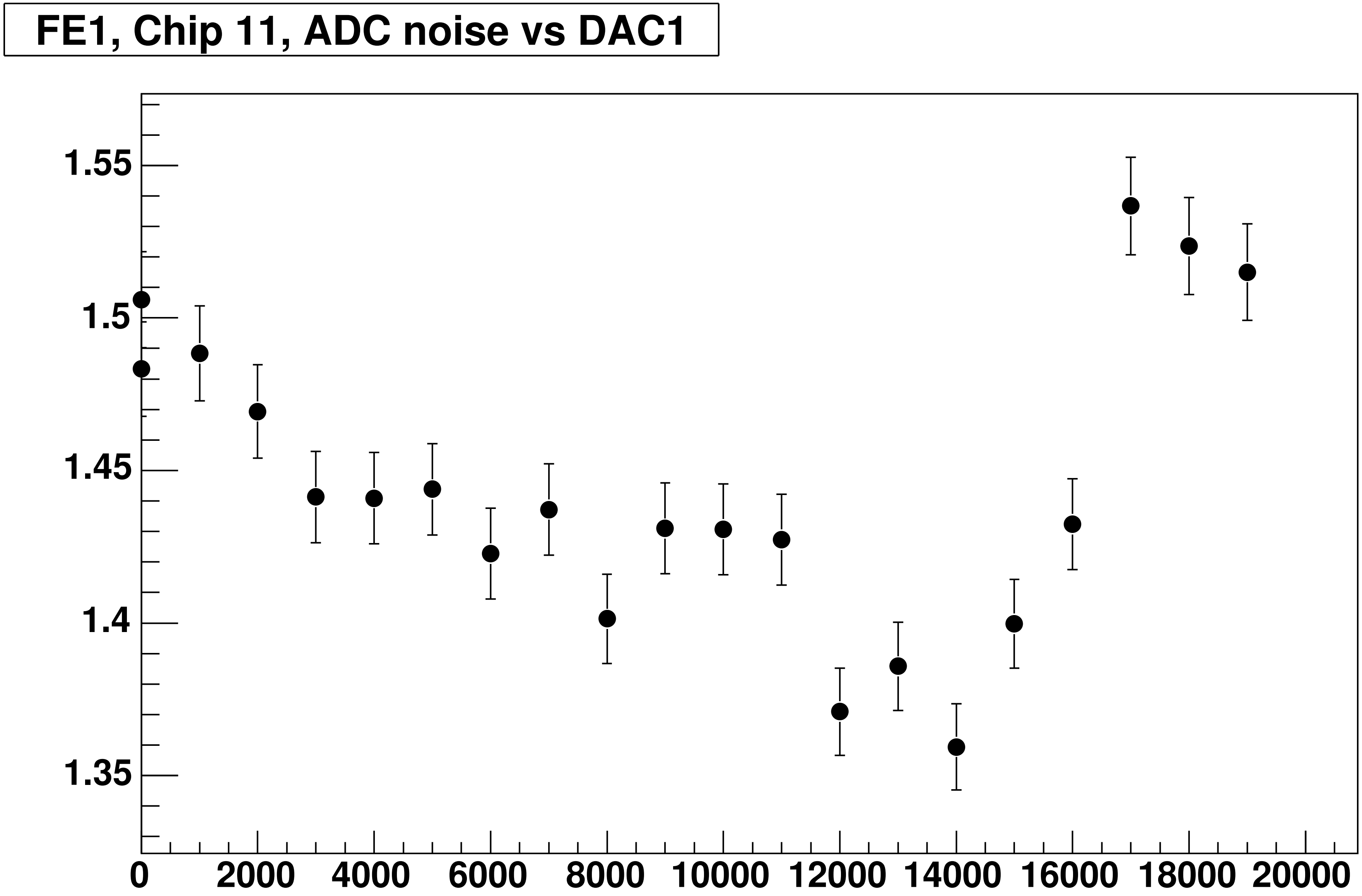


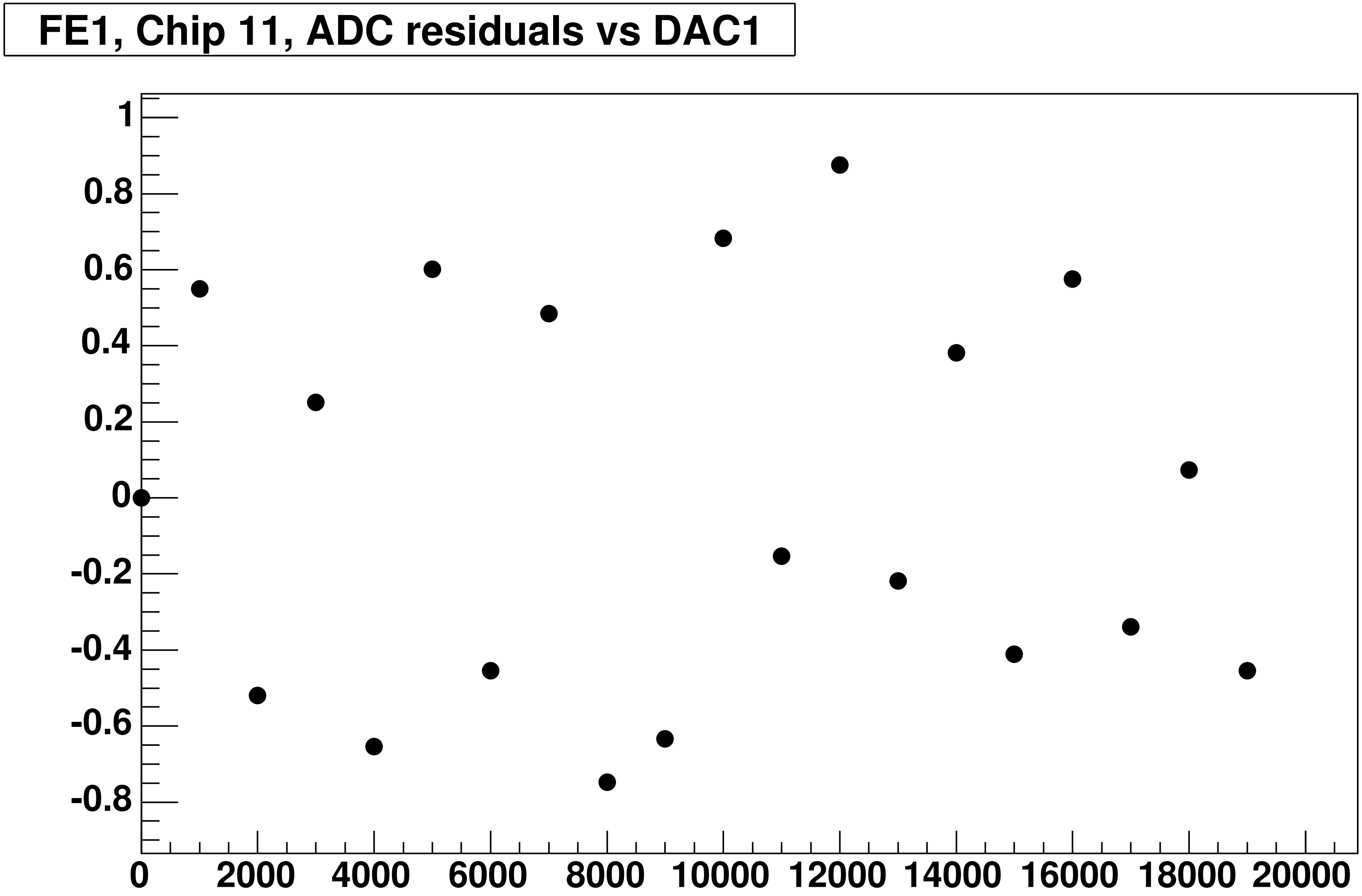
FE1, Chip 11, ADC mean vs DAC0
χ2 / ndf 969.3 / 17
p0 56.06 ± 0.01053
p1 1.826e-05 ± 9.222e-07
56.7
56.6
56.5
56.4
56.3
56.2
56.1
56
55.9
55.8
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

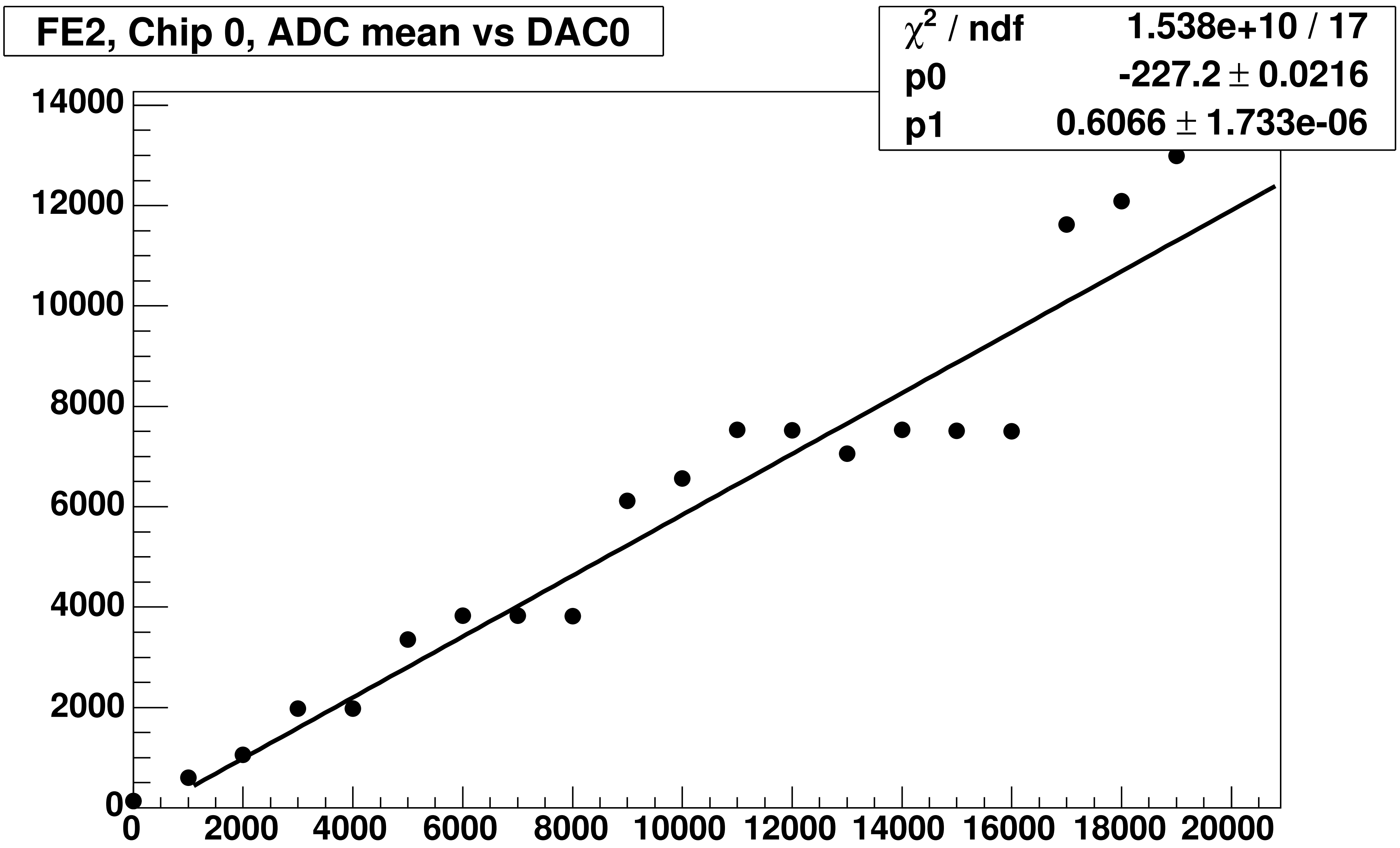

FE1, Chip 11, ADC noise vs DAC0
1.54
1.52
1.5
1.48
1.46
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

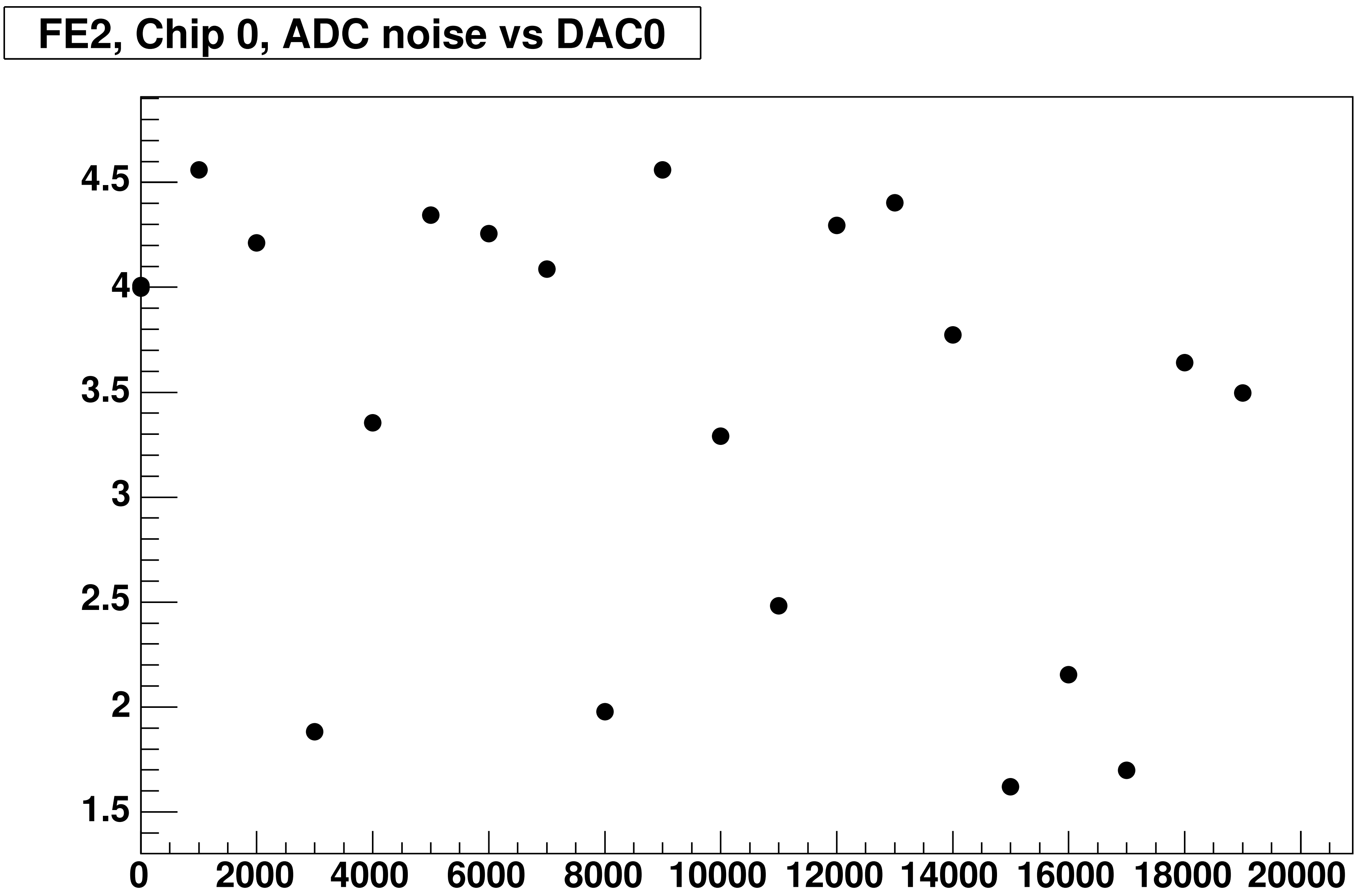

FE1, Chip 11, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

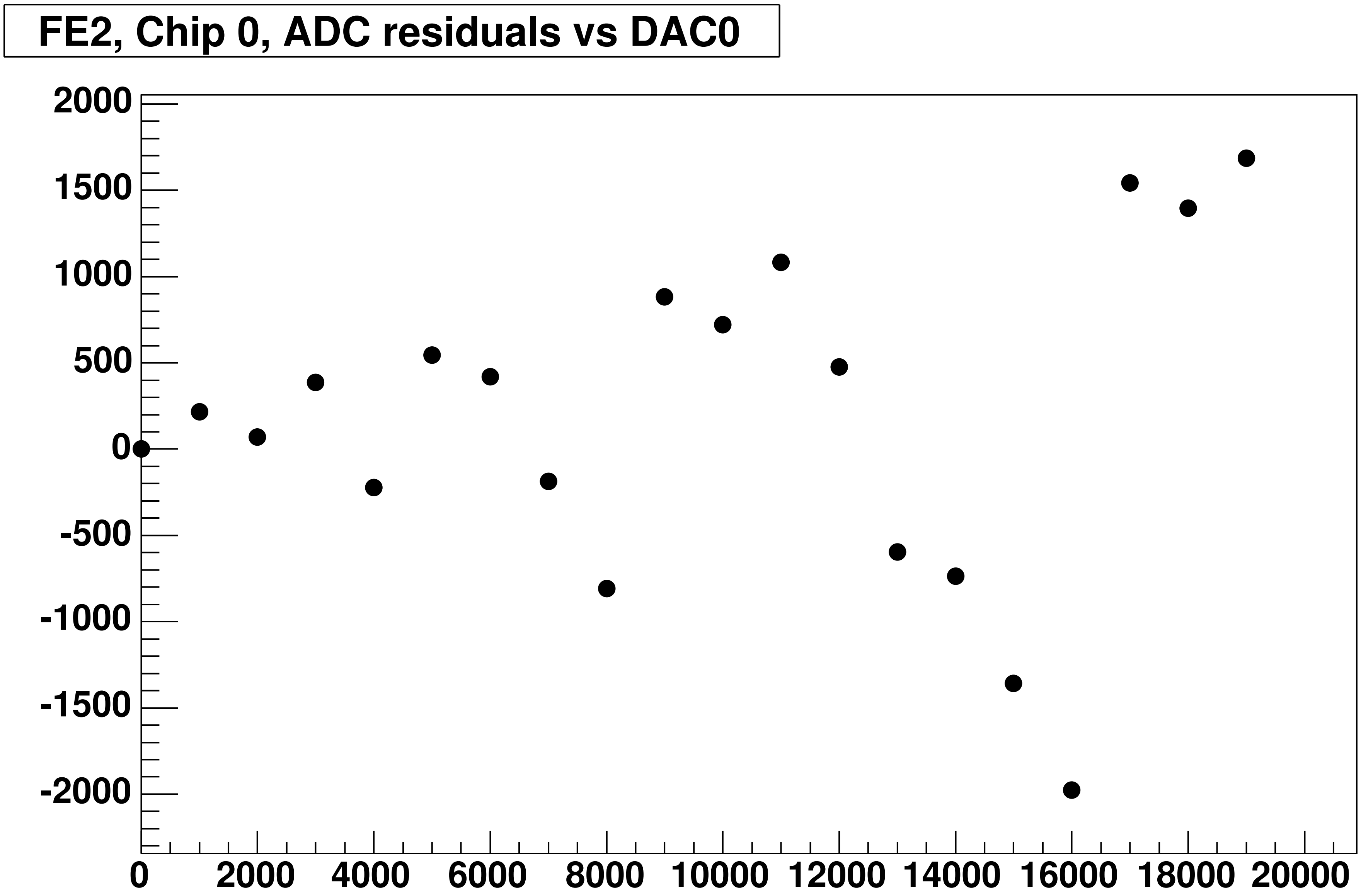

FE1, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 1.155e+04 / 17
p0 56.42 ± 0.01027
p1 0.4502 ± 9.07e-07
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

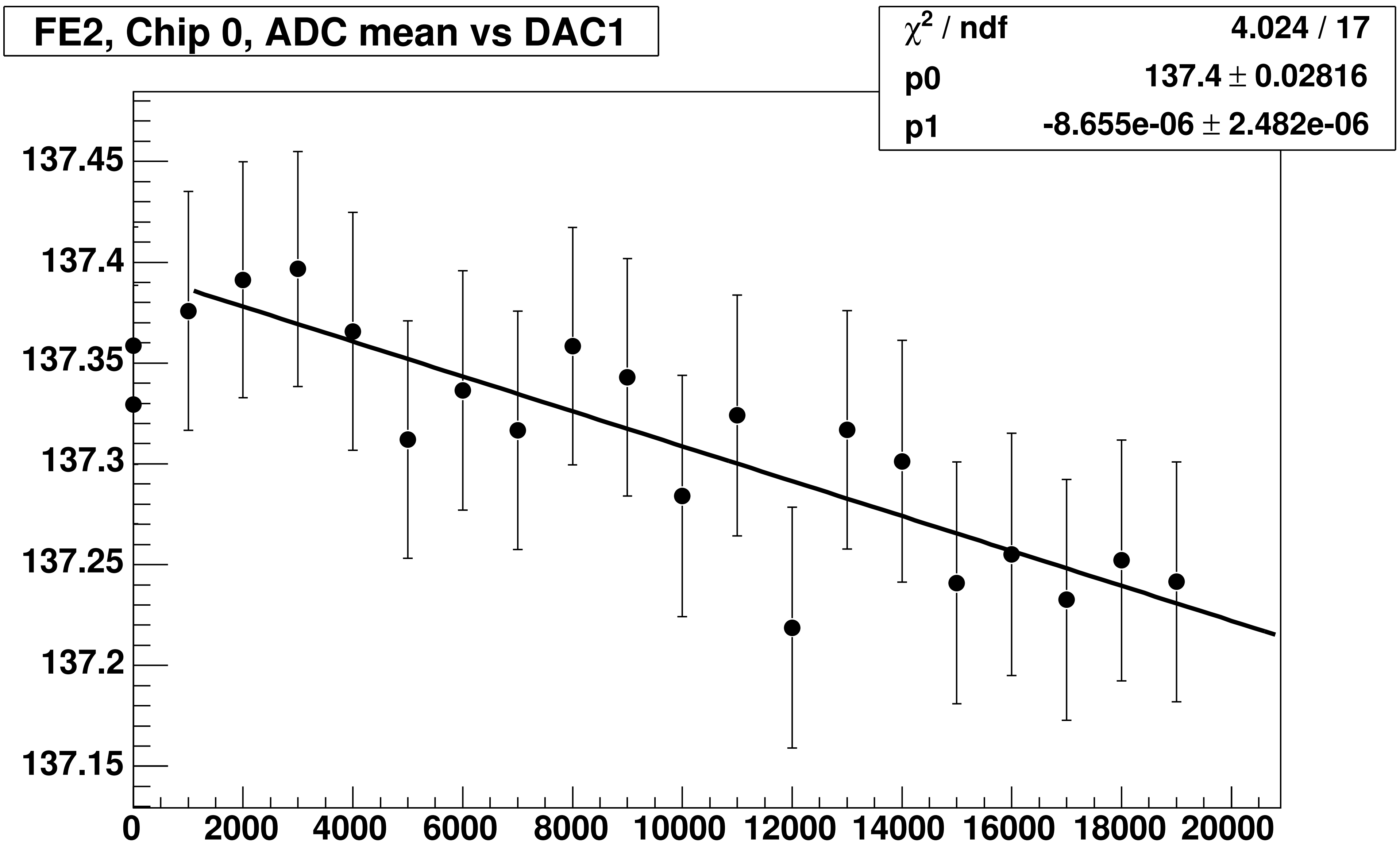

FE1, Chip 11, ADC noise vs DAC1
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

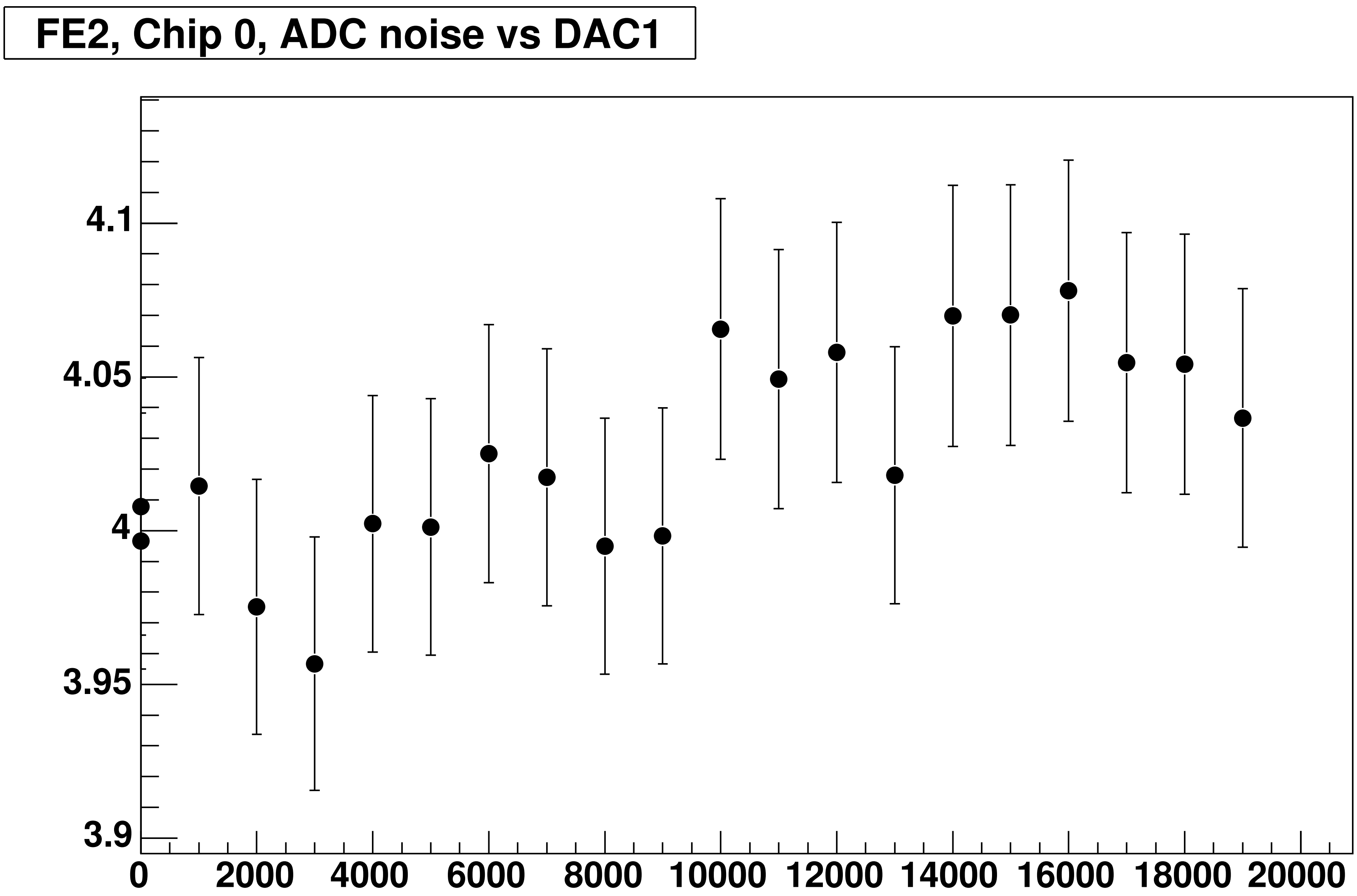

FE1, Chip 11, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

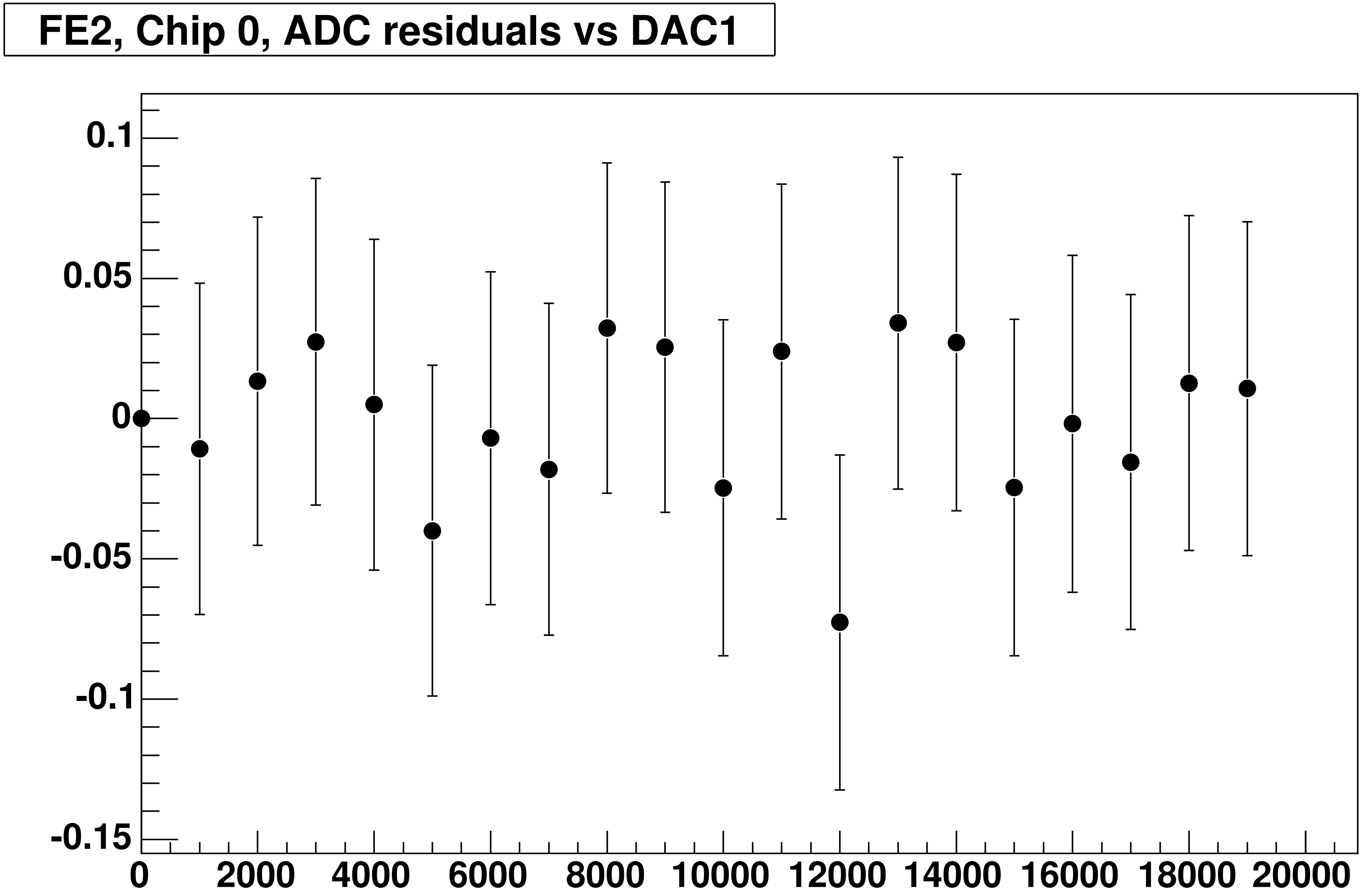

FE2, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 1.538e+10 / 17
p0 -227.2 ± 0.0216
p1 0.6066 ± 1.733e-06
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
2000
4000
6000
8000
10000
12000
14000

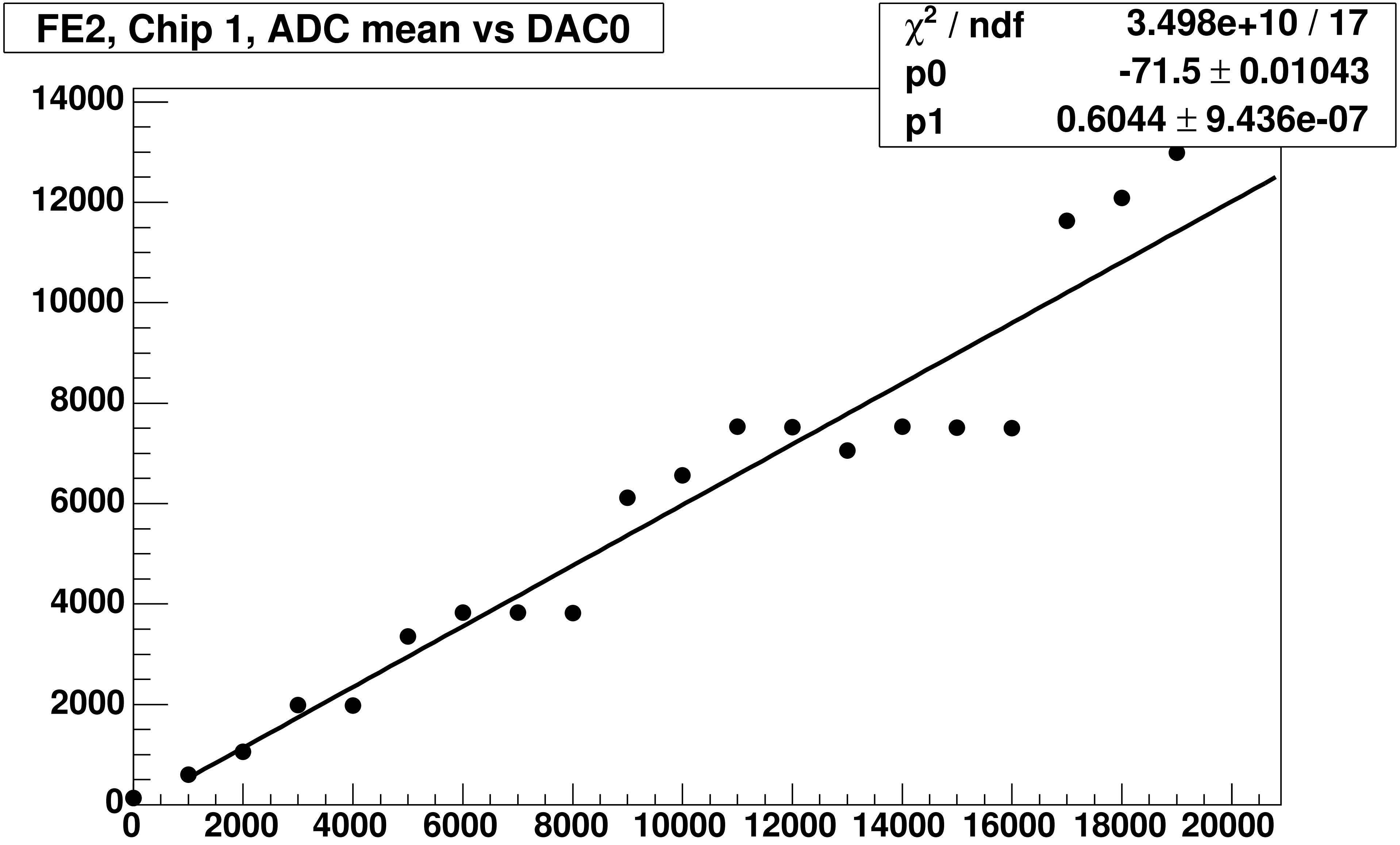

FE2, Chip 0, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE2, Chip 0, ADC residuals vs DAC0
2000
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

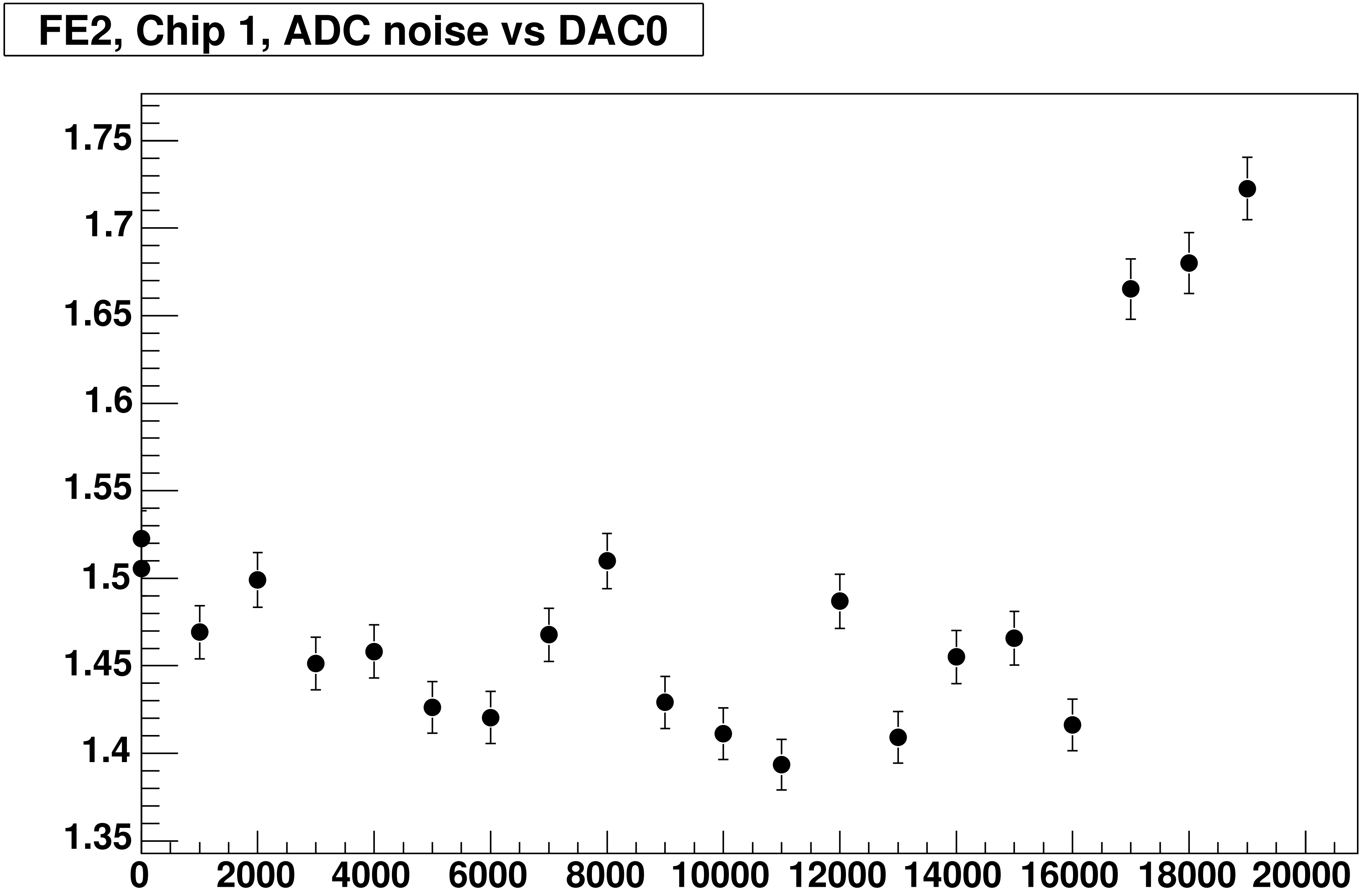

FE2, Chip 0, ADC mean vs DAC1
$\chi^2$ / ndf 4.024 / 17
p0 137.4 ± 0.02816
p1 -8.655e-06 ± 2.482e-06
137.45
137.4
137.35
137.3
137.25
137.2
137.15
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE2, Chip 0, ADC noise vs DAC1
4.1
4.05
4
3.95
3.9
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

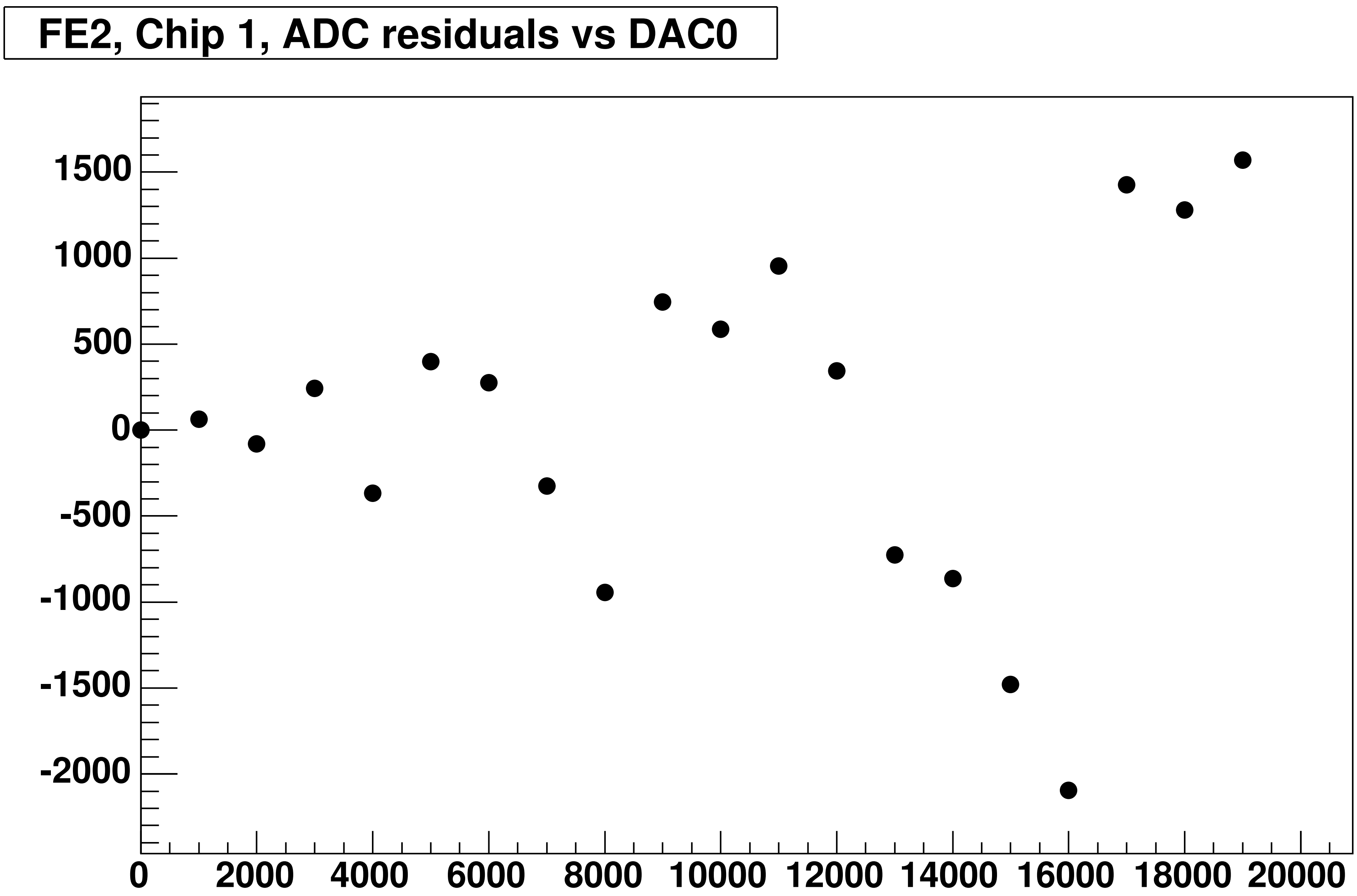

FE2, Chip 0, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
-0.15
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

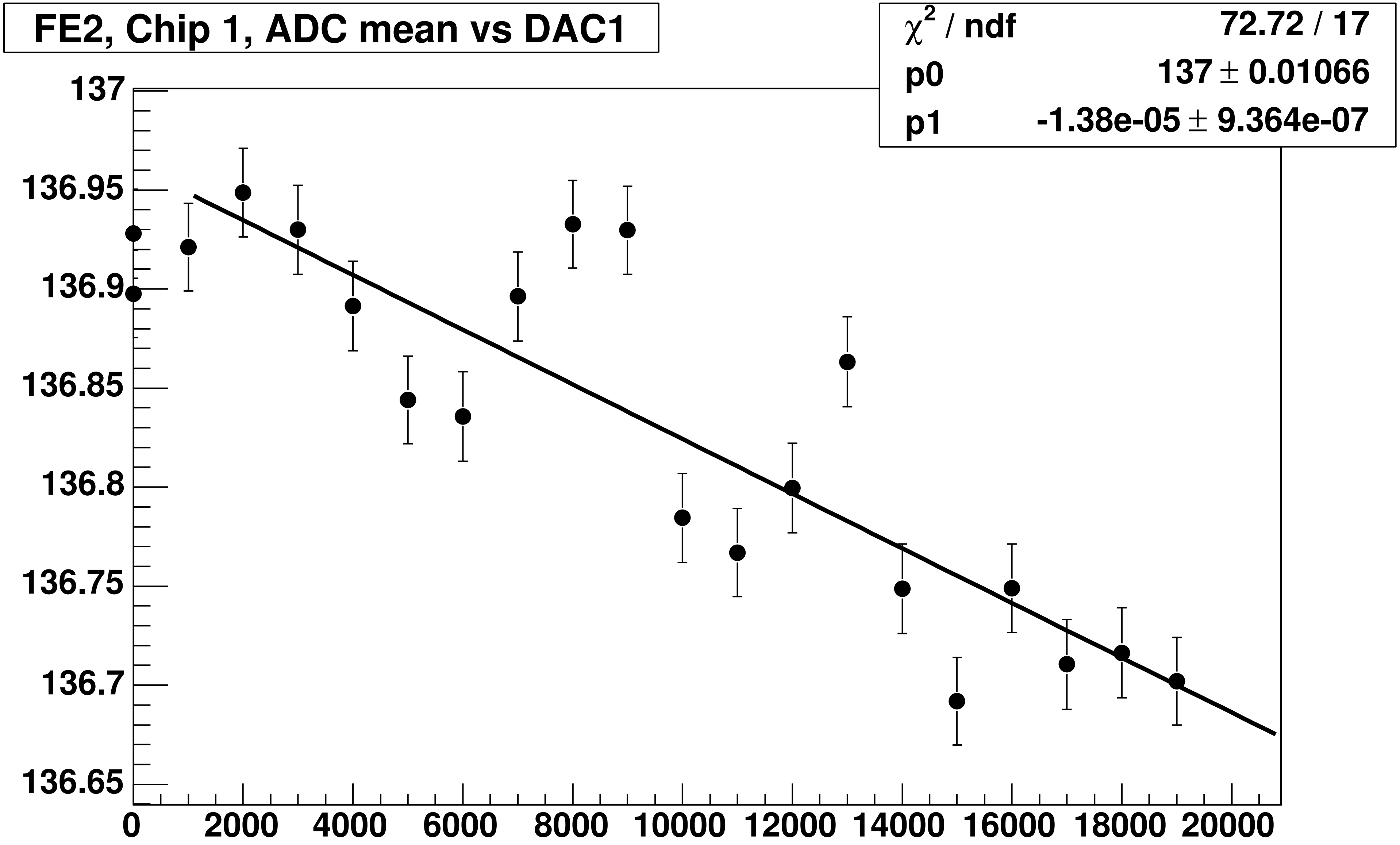


FE2, Chip 1, ADC mean vs DAC0
$\chi^2$ / ndf 3.498e+10 / 17
p0 -71.5 ± 0.01043
p1 0.6044 ± 9.436e-07
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

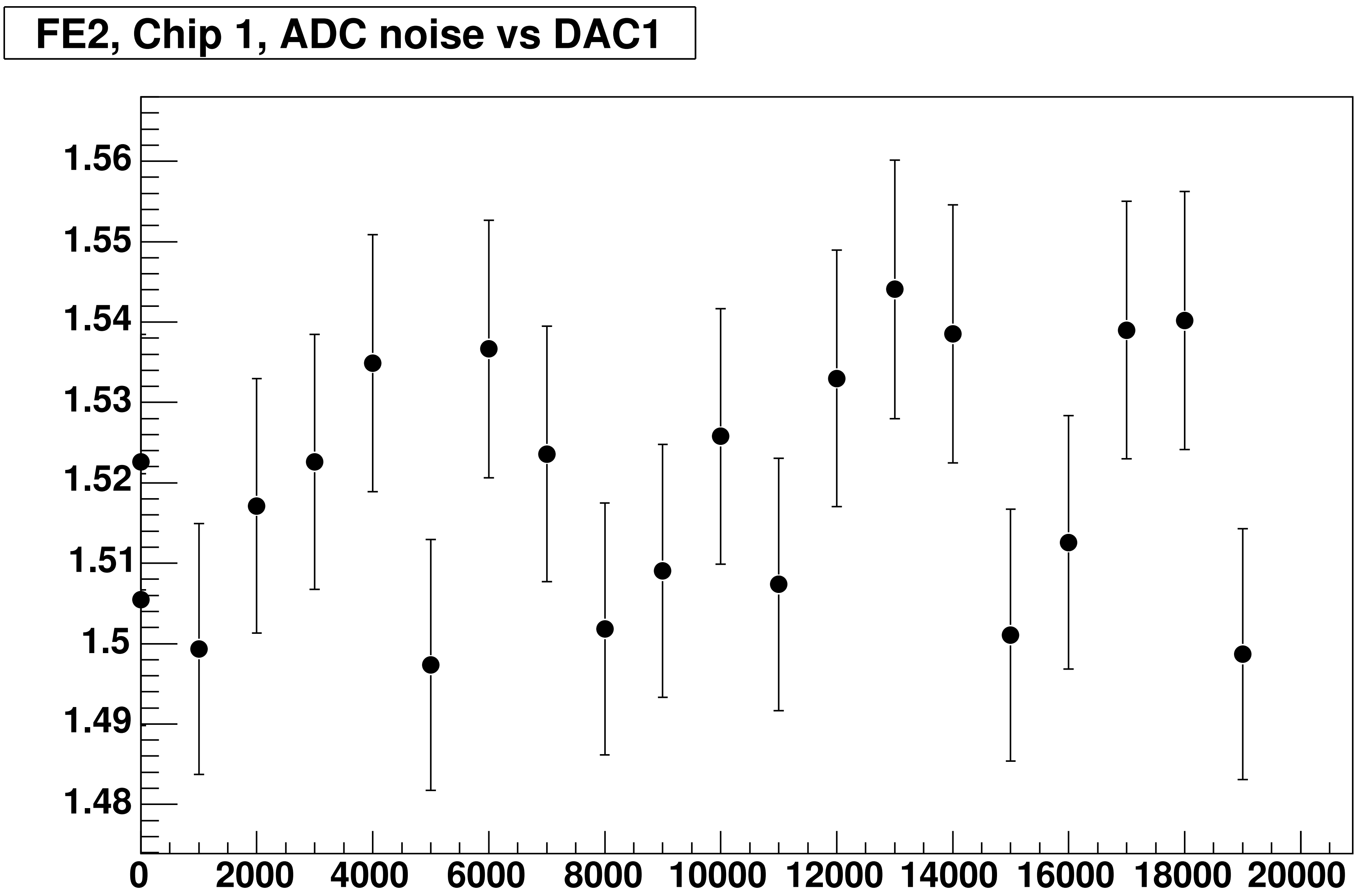


FE2, Chip 1, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

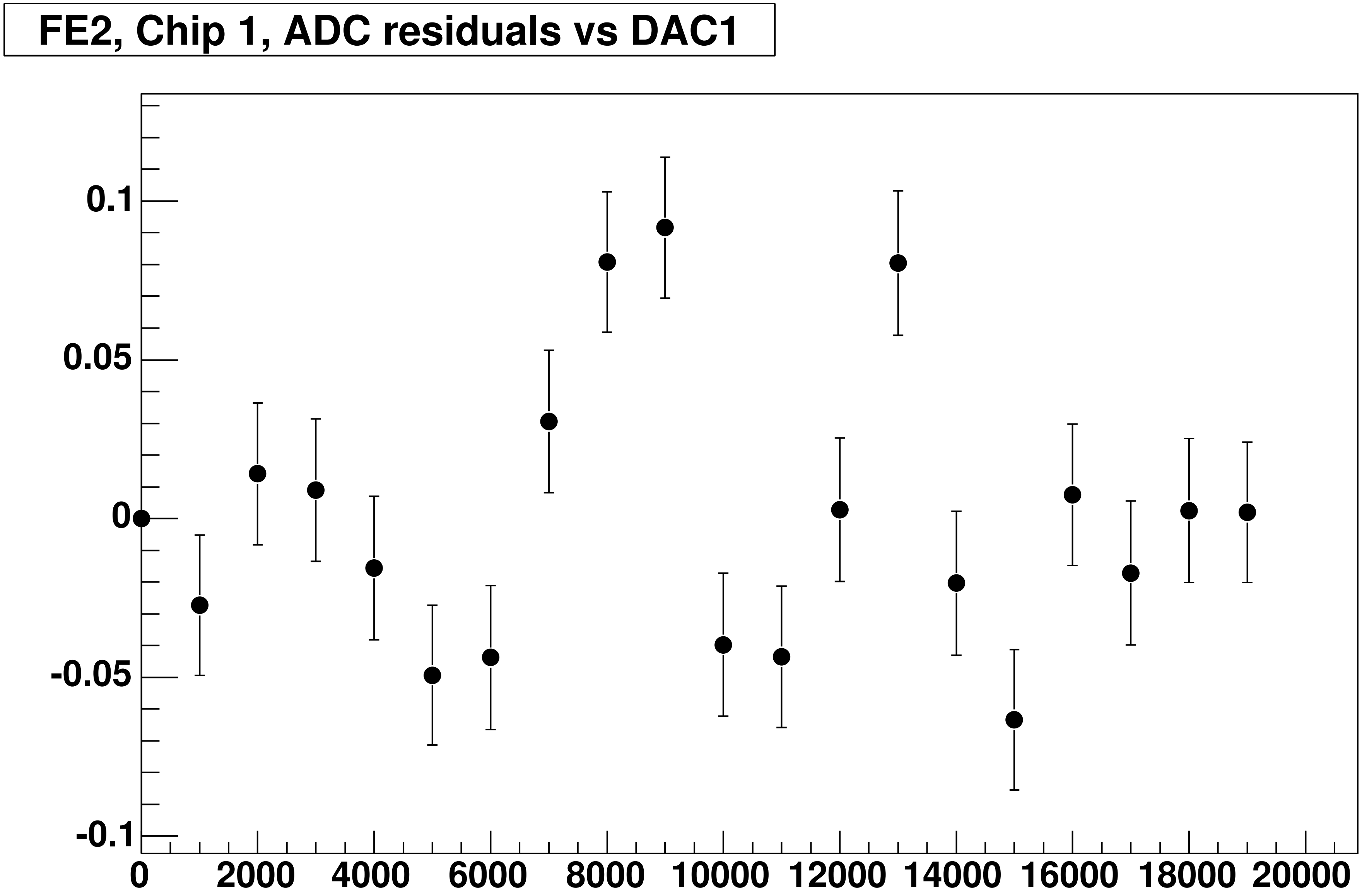

FE2, Chip 1, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



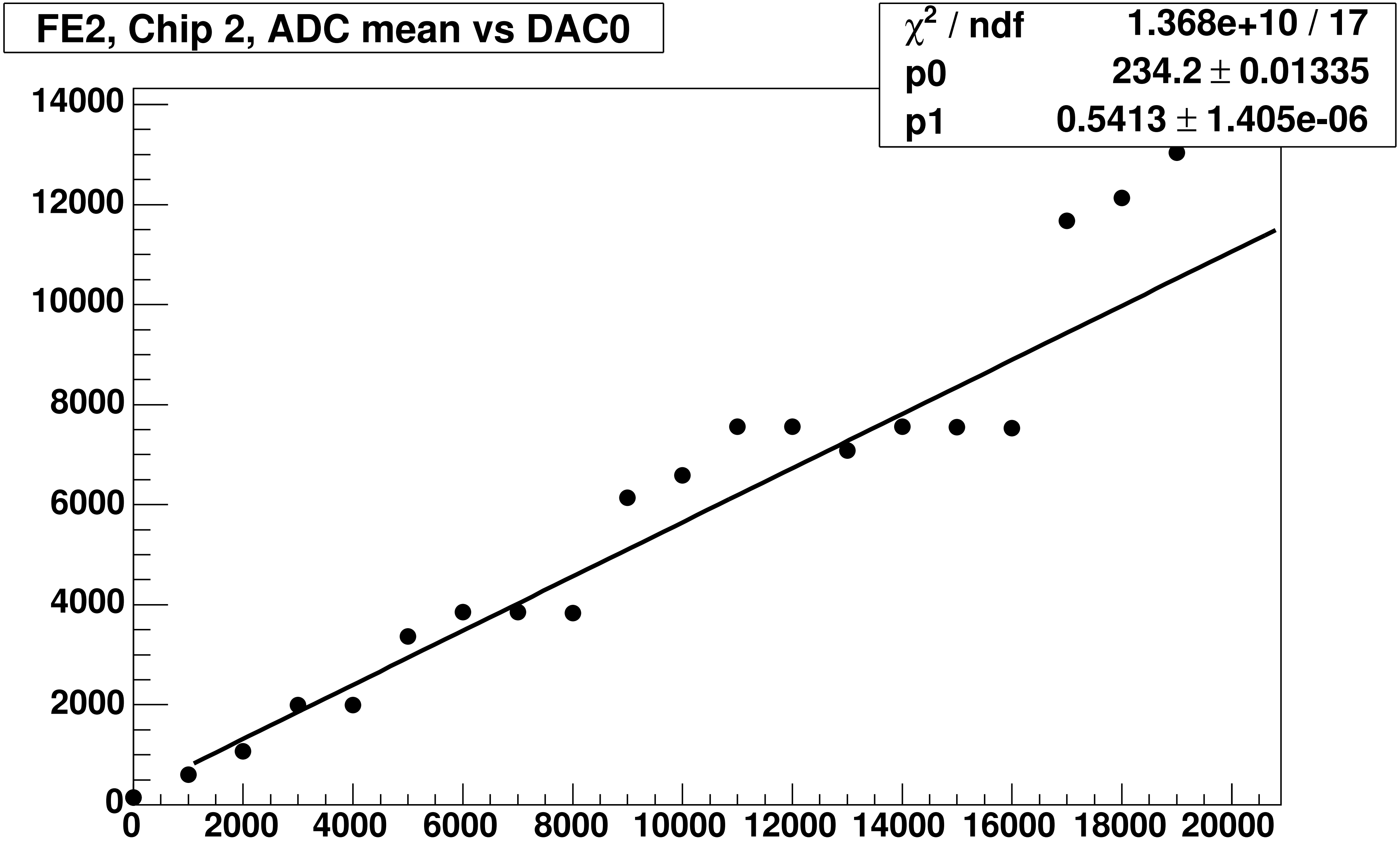
FE2, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 72.72 / 17
p0 137 ± 0.01066
p1 -1.38e-05 ± 9.364e-07
137
136.95
136.9
136.85
136.8
136.75
136.7
136.65
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



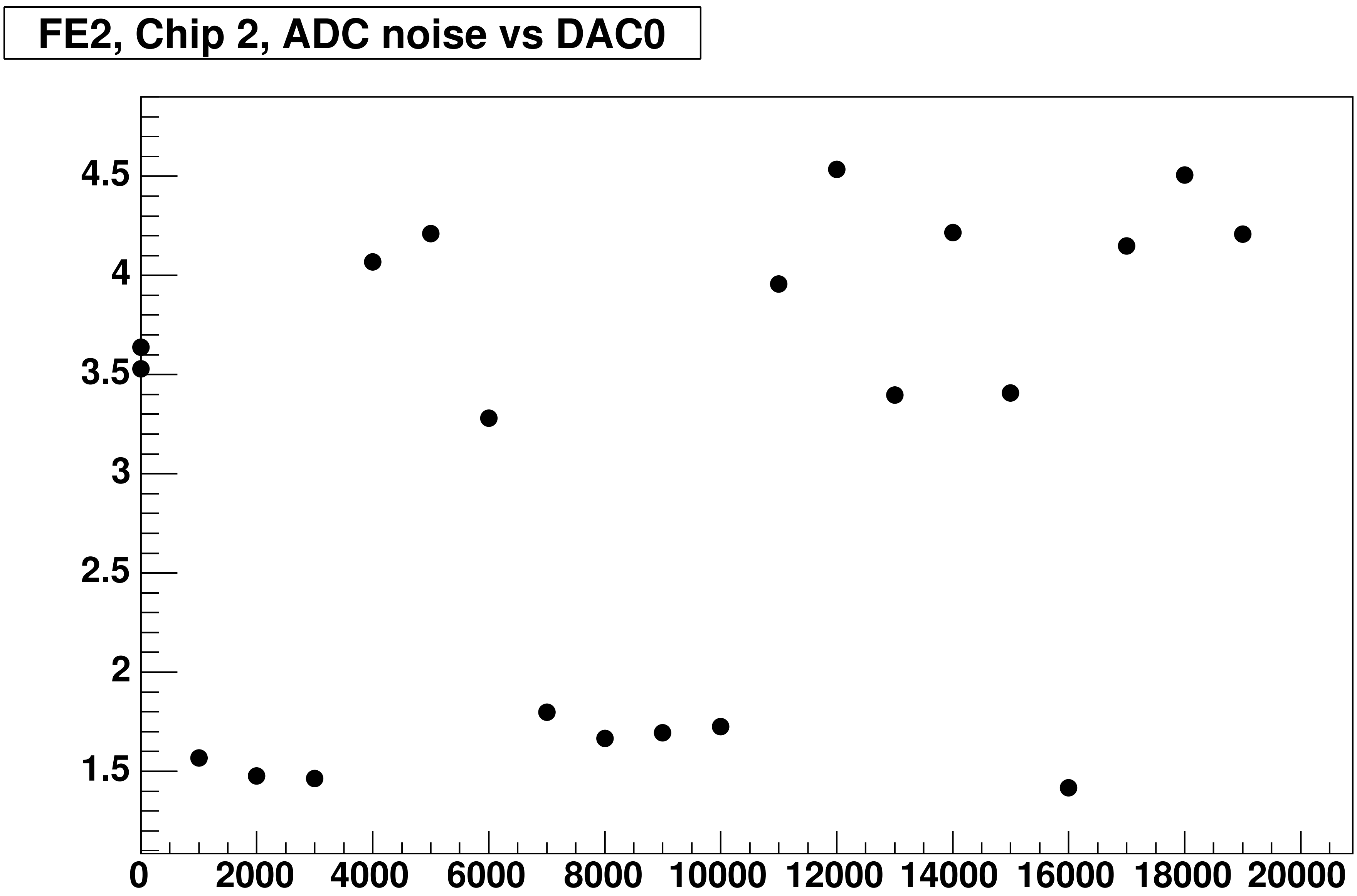
FE2, Chip 1, ADC noise vs DAC1
1.56
1.55
1.54
1.53
1.52
1.51
1.5
1.49
1.48
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

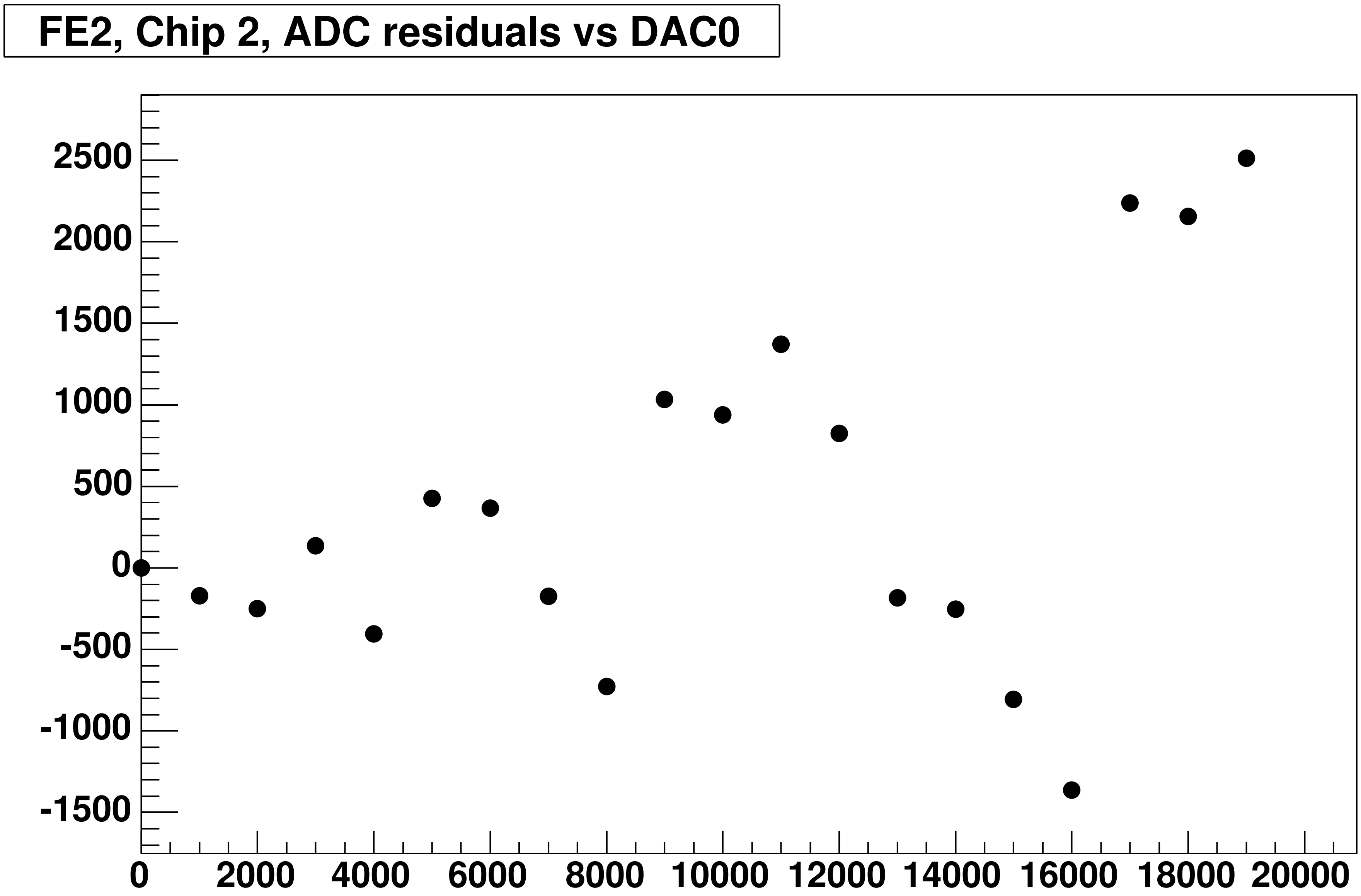


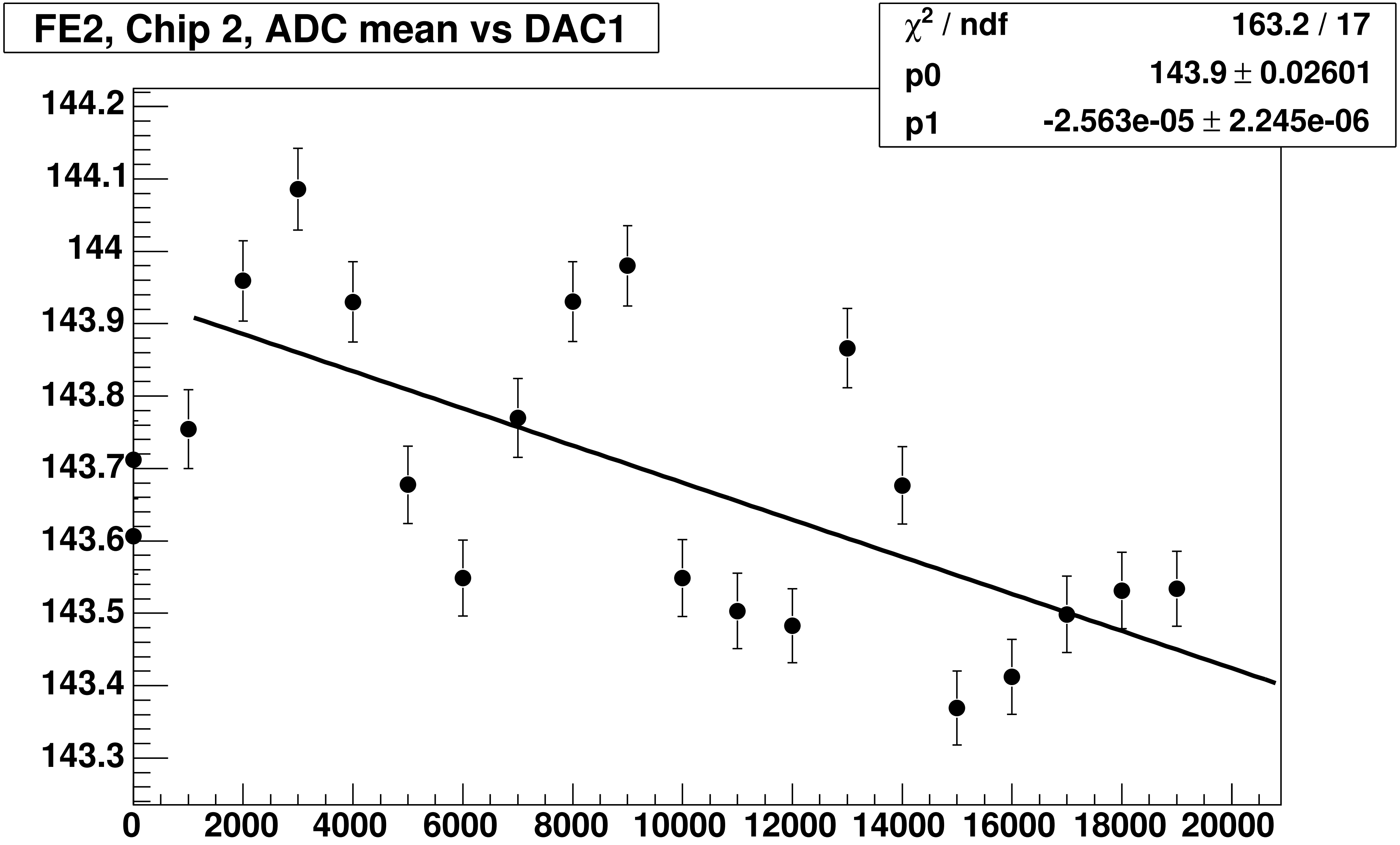
FE2, Chip 1, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



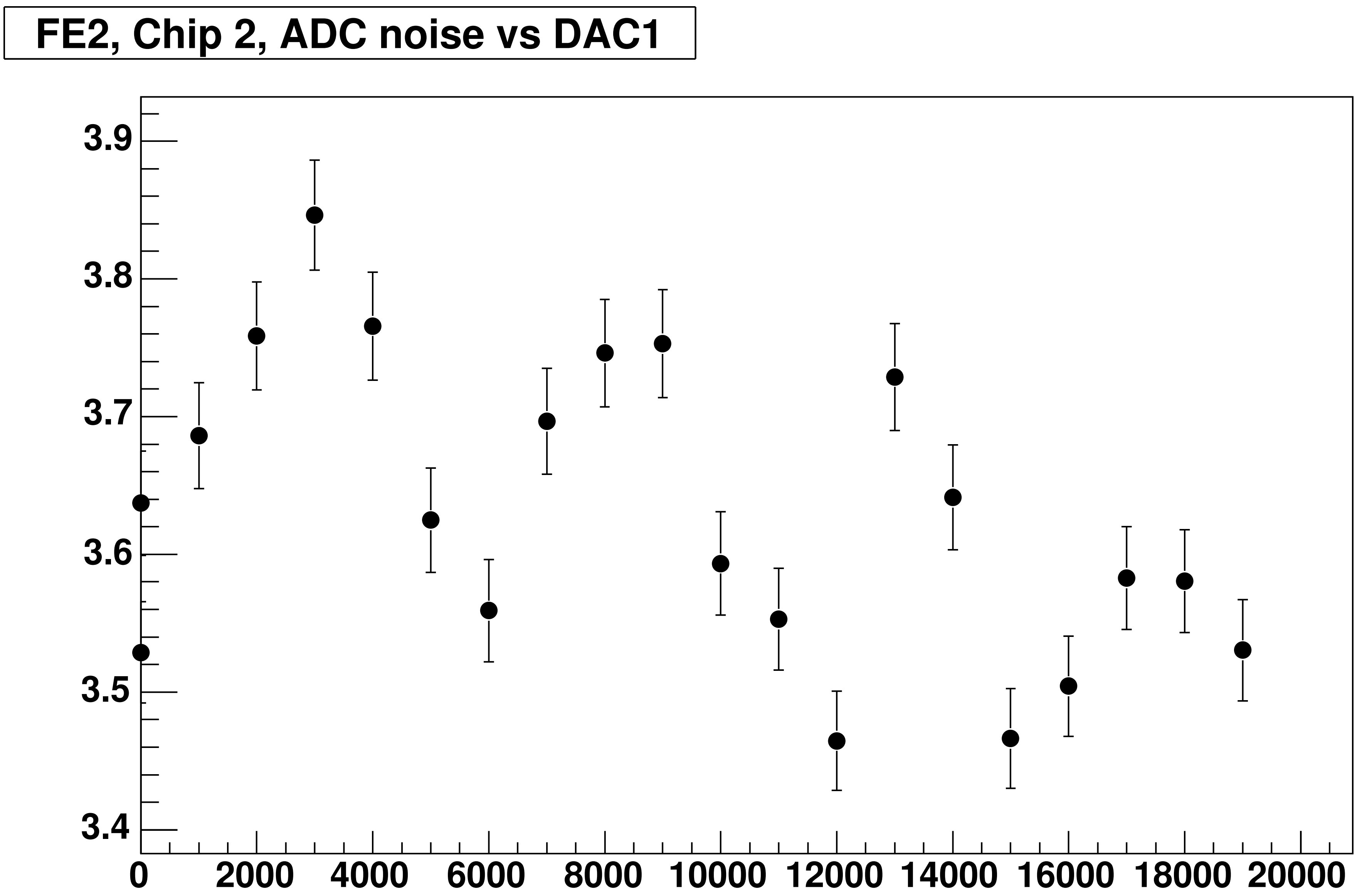
FE2, Chip 2, ADC mean vs DAC0
χ² / ndf 1.368e+10 / 17
p0 234.2 ± 0.01335
p1 0.5413 ± 1.405e-06
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

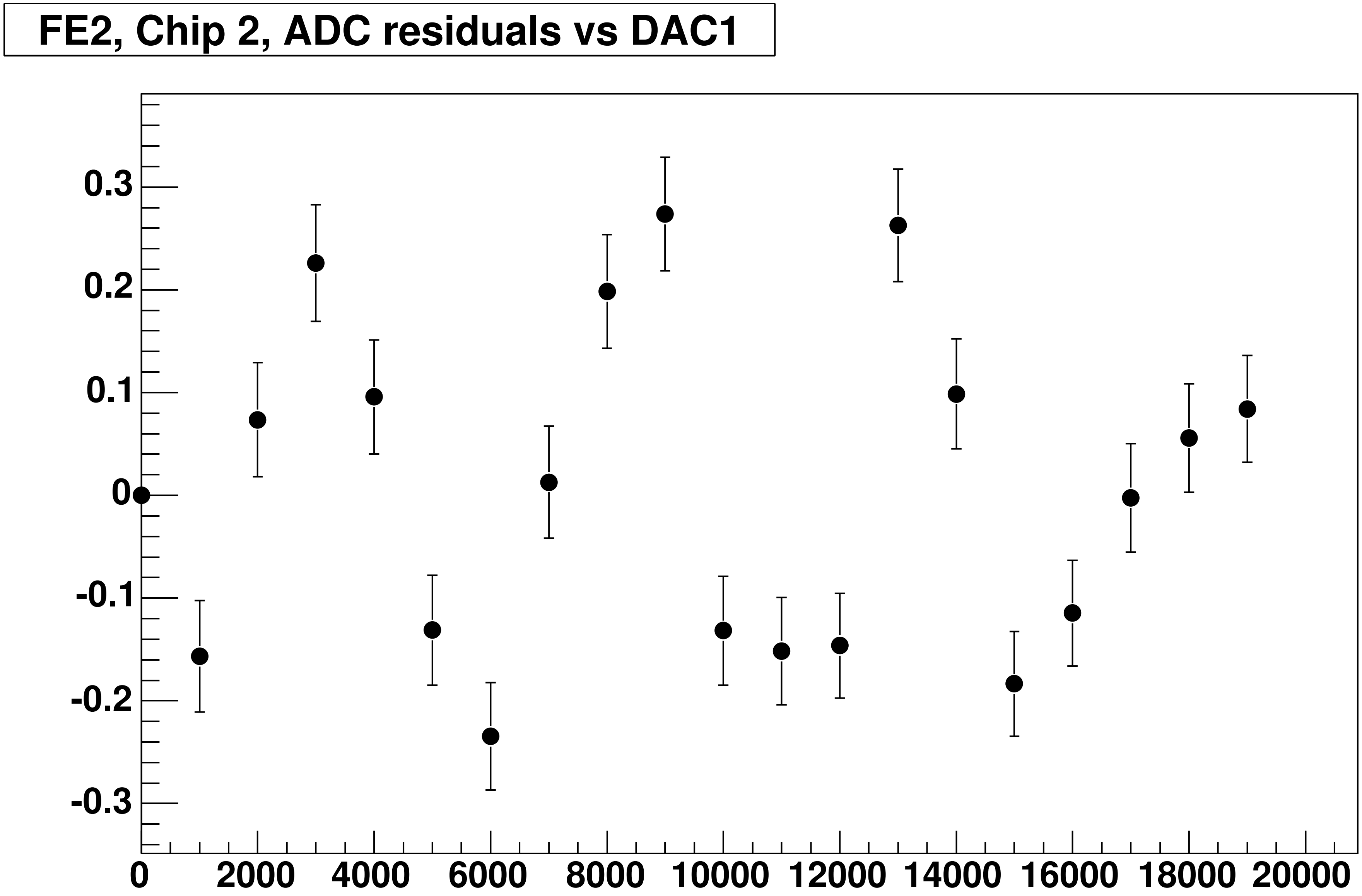

FE2, Chip 2, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

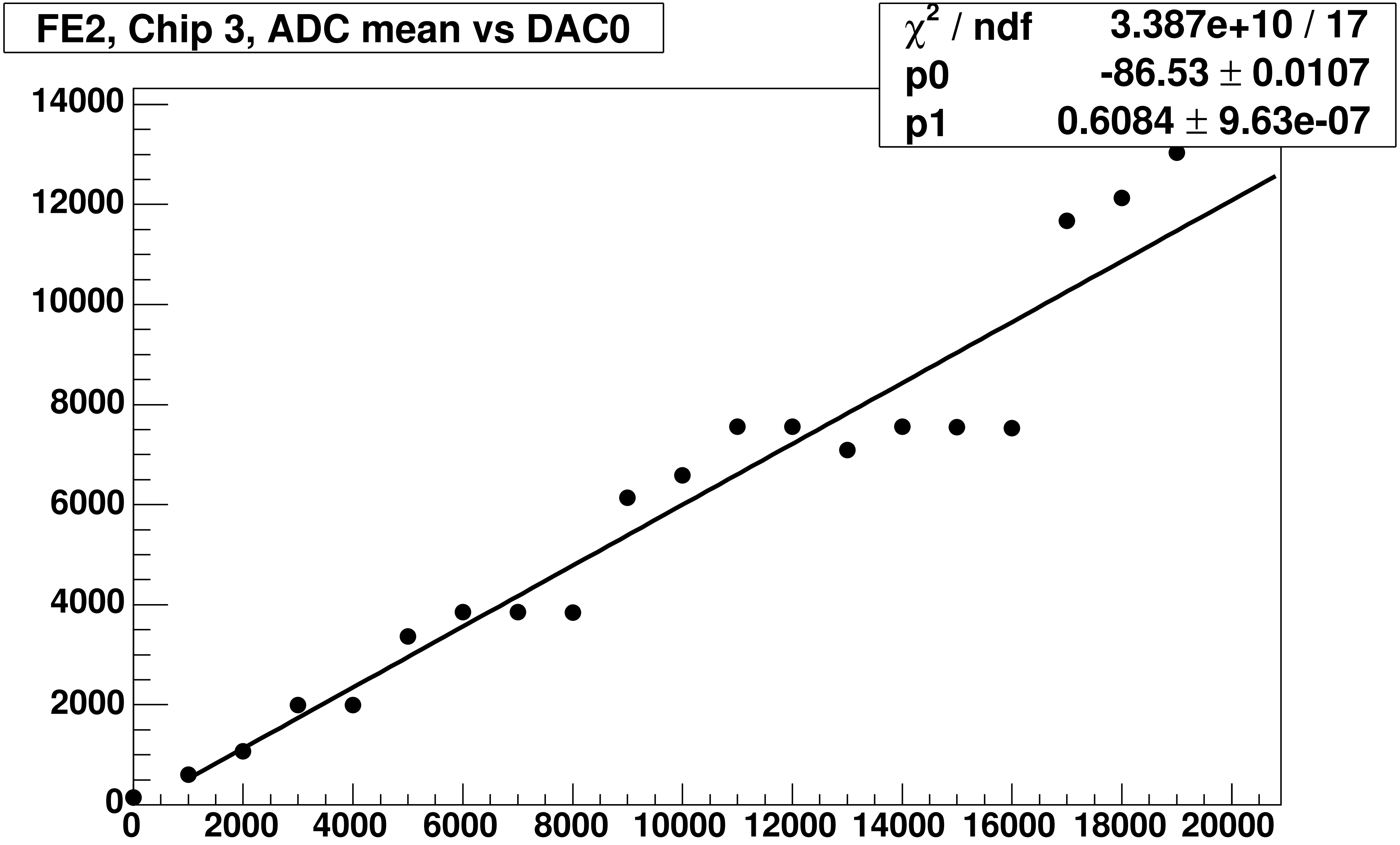

FE2, Chip 2, ADC residuals vs DAC0
2500
2000
1500
1000
500
0
-500
-1000
-1500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

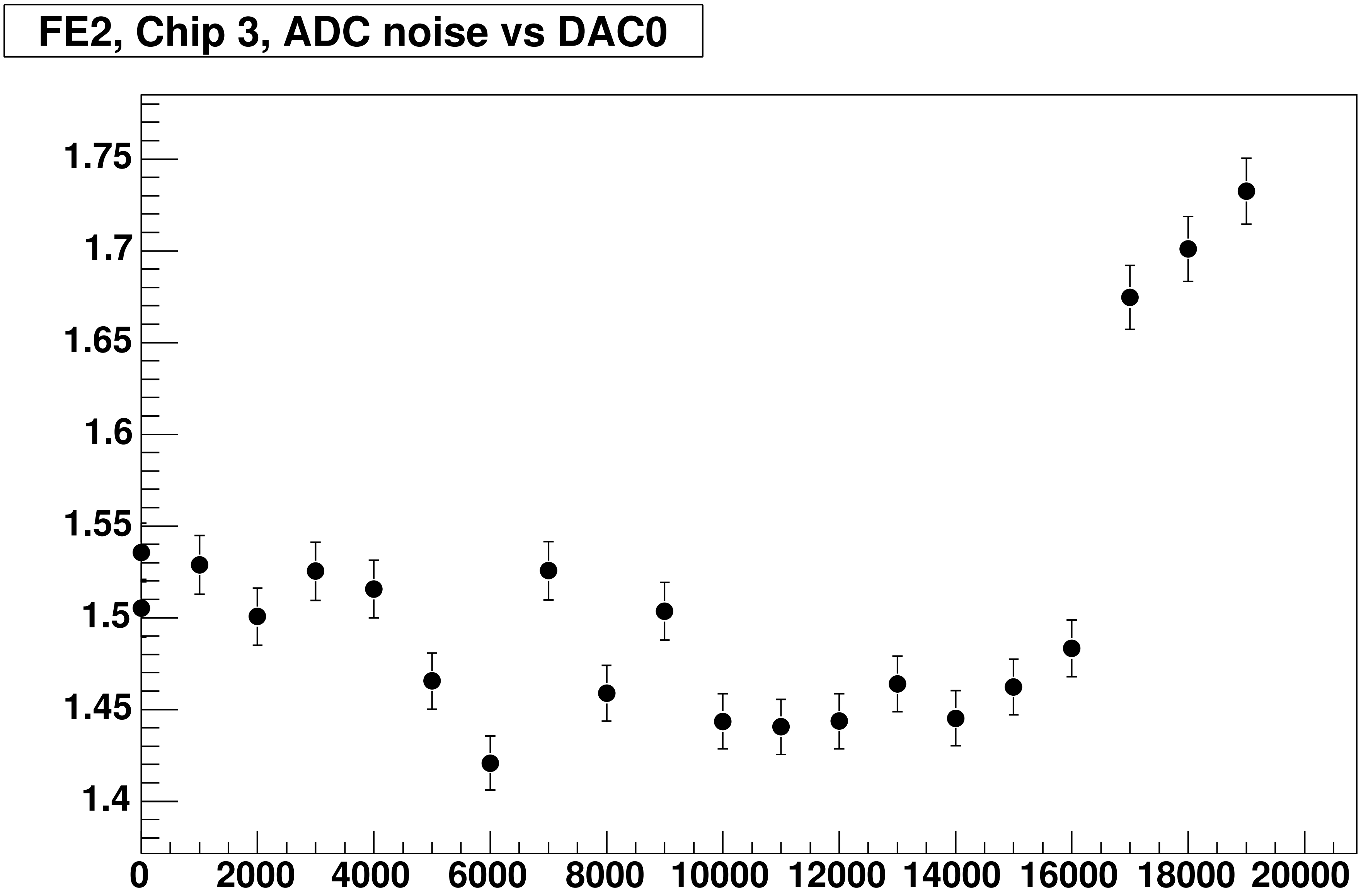


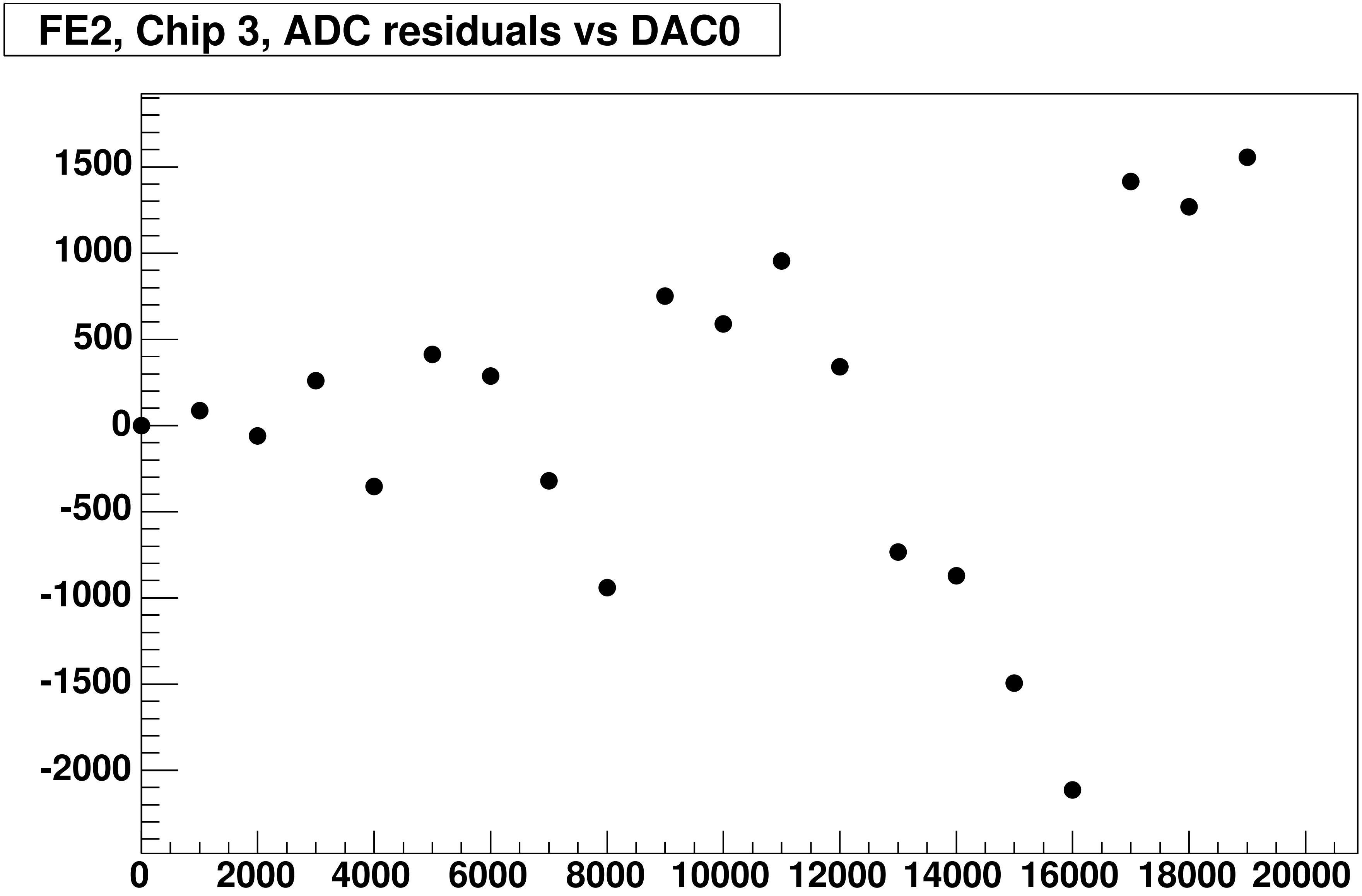
FE2, Chip 2, ADC mean vs DAC1
$\chi^2$ / ndf 163.2 / 17
p0 143.9 ± 0.02601
p1 -2.563e-05 ± 2.245e-06
144.2
144.1
144
143.9
143.8
143.7
143.6
143.5
143.4
143.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

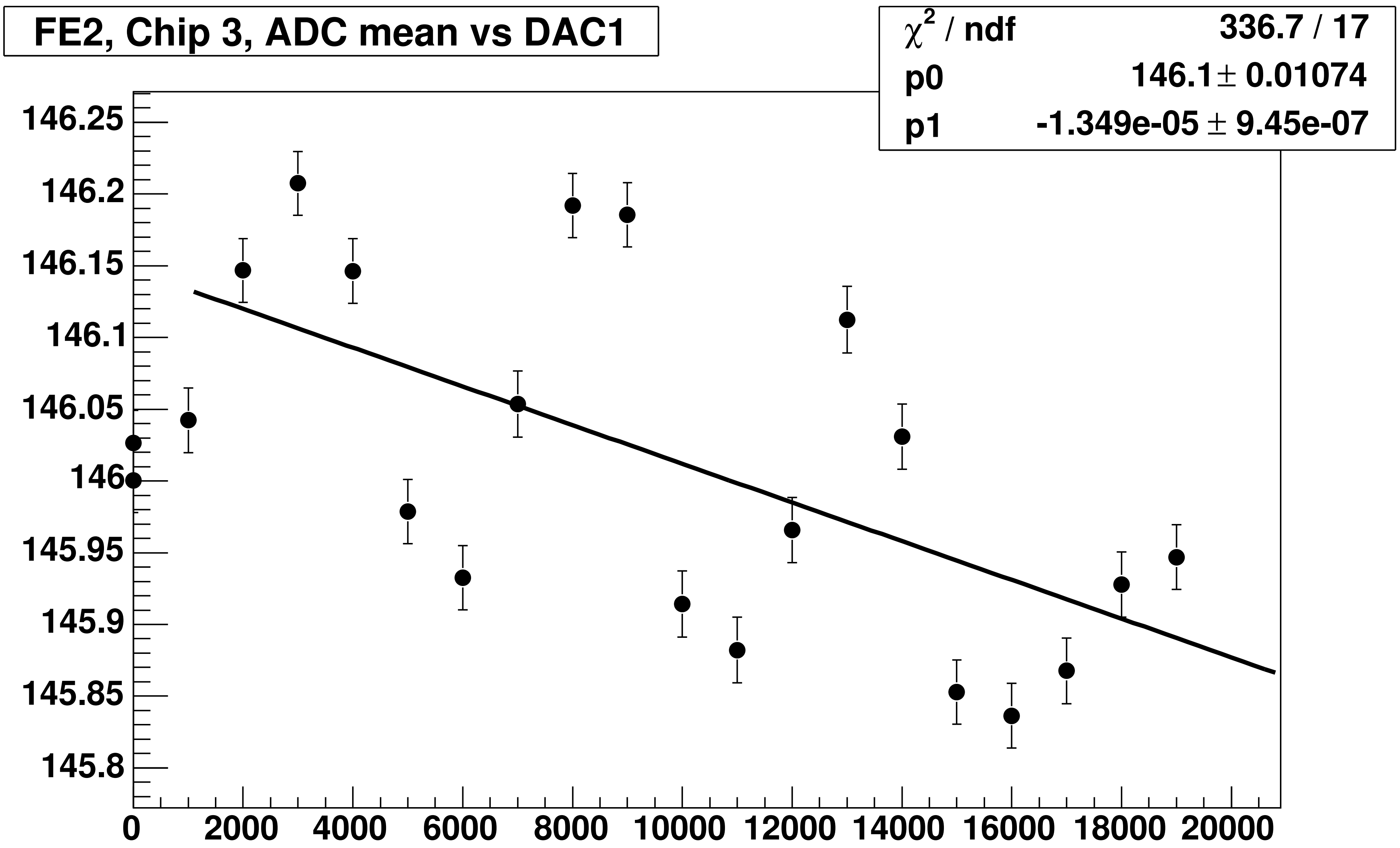

FE2, Chip 2, ADC noise vs DAC1
3.9
3.8
3.7
3.6
3.5
3.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE2, Chip 2, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

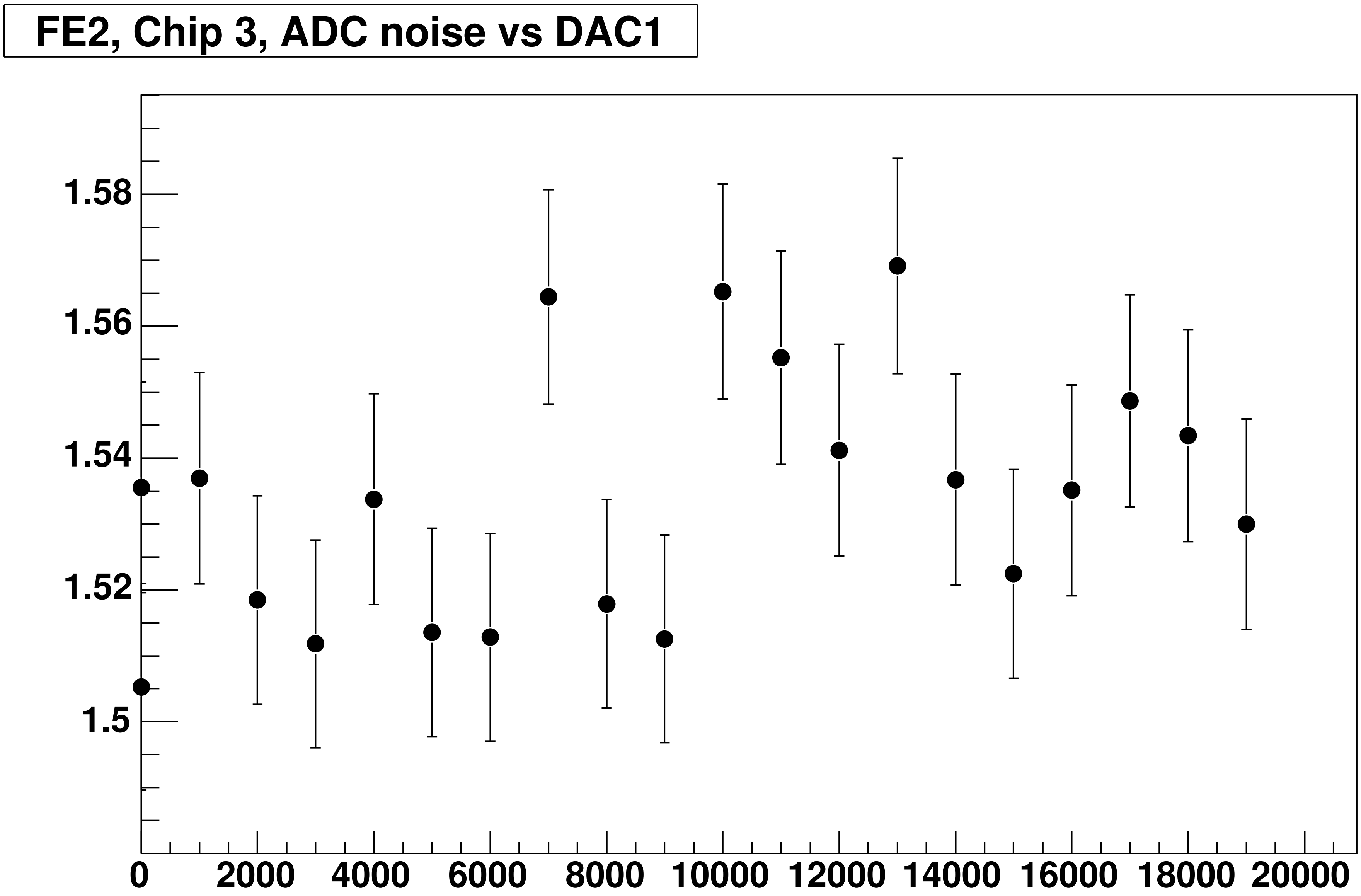

FE2, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 3.387e+10 / 17
p0 -86.53 ± 0.0107
p1 0.6084 ± 9.63e-07
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
2000
4000
6000
8000
10000
12000
14000

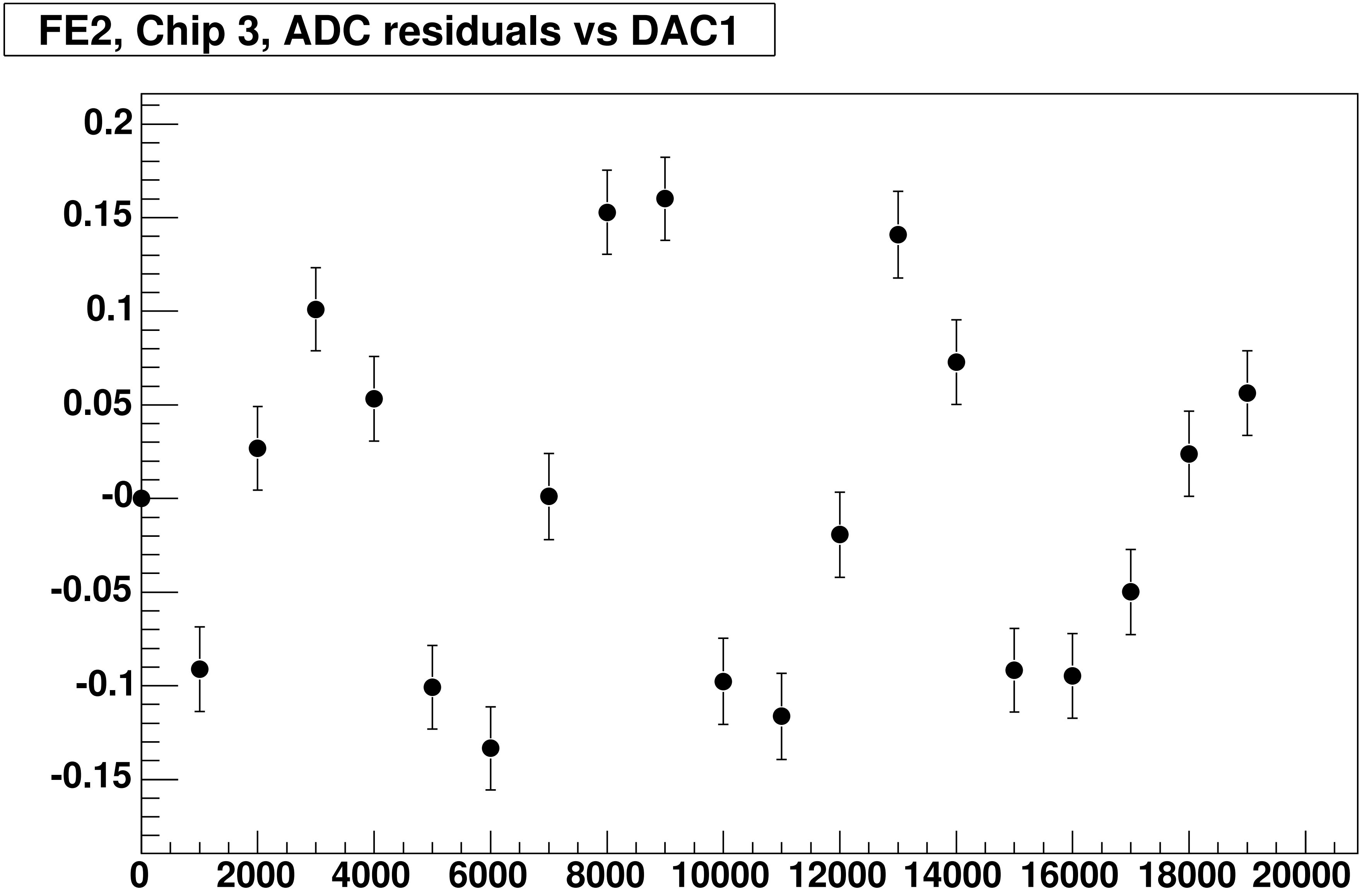

FE2, Chip 3, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE2, Chip 3, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

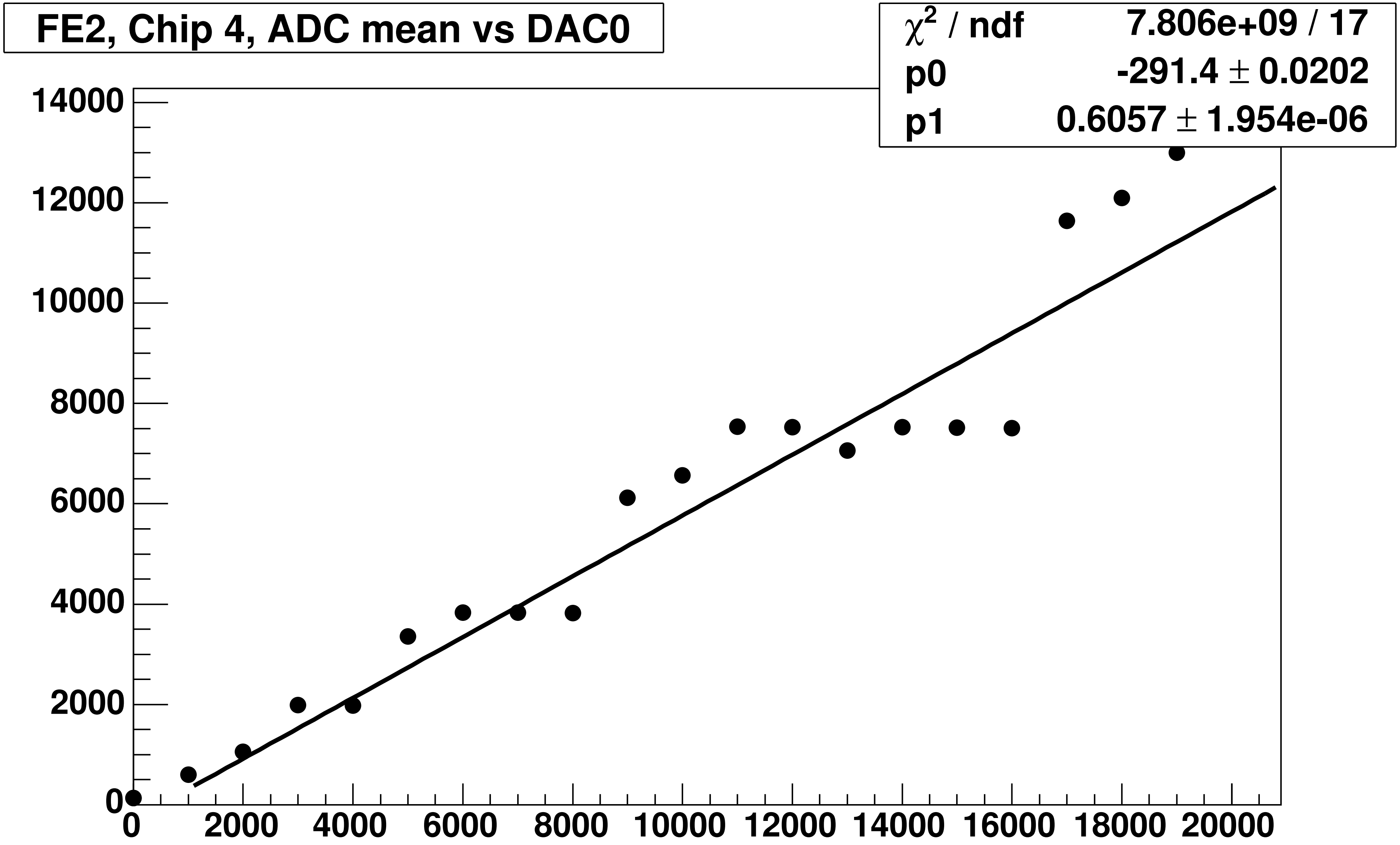


FE2, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 336.7 / 17
p0 146.1 ± 0.01074
p1 -1.349e-05 ± 9.45e-07
146.25
146.2
146.15
146.1
146.05
146
145.95
145.9
145.85
145.8
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

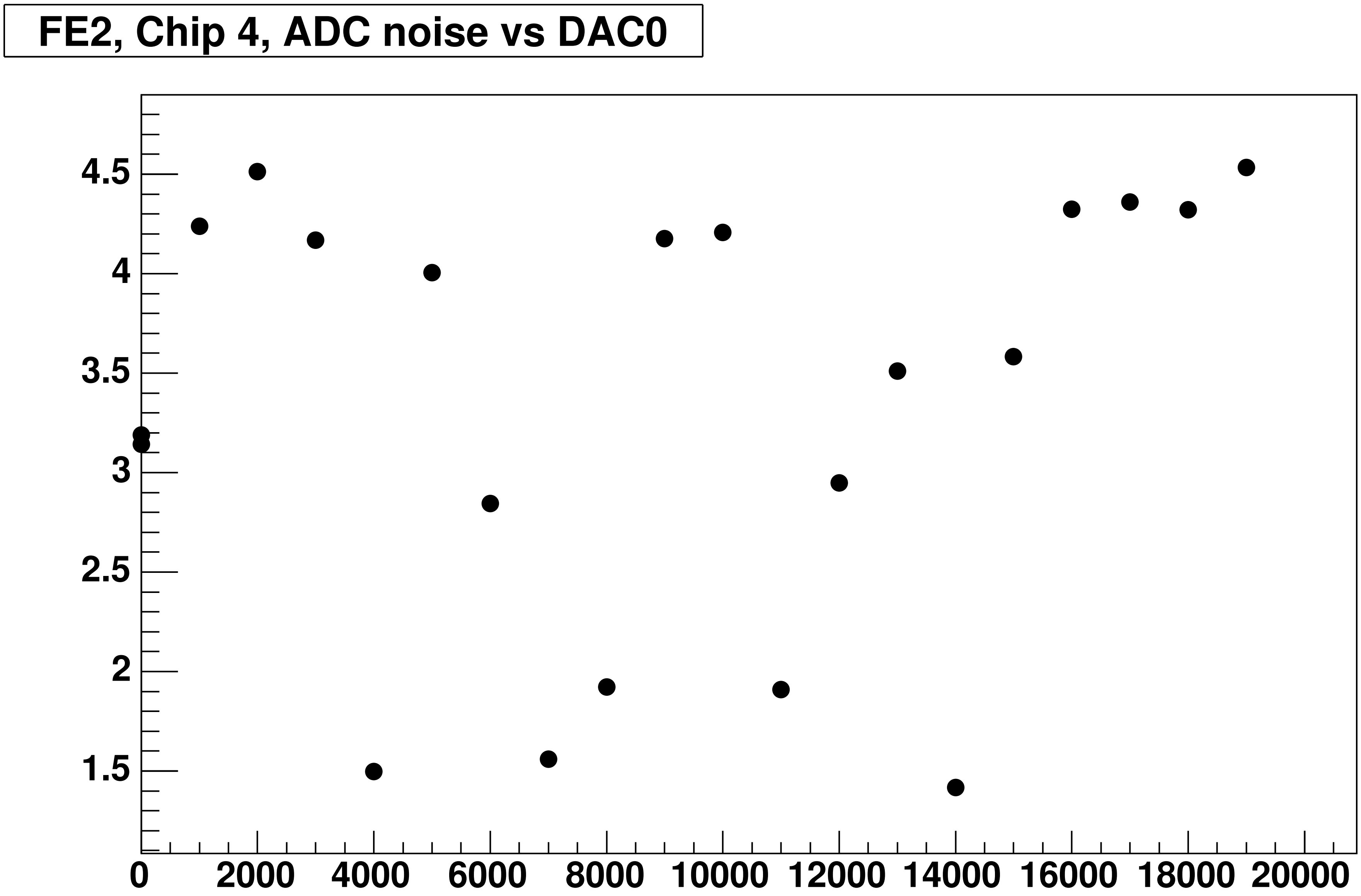

FE2, Chip 3, ADC noise vs DAC1
1.58
1.56
1.54
1.52
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

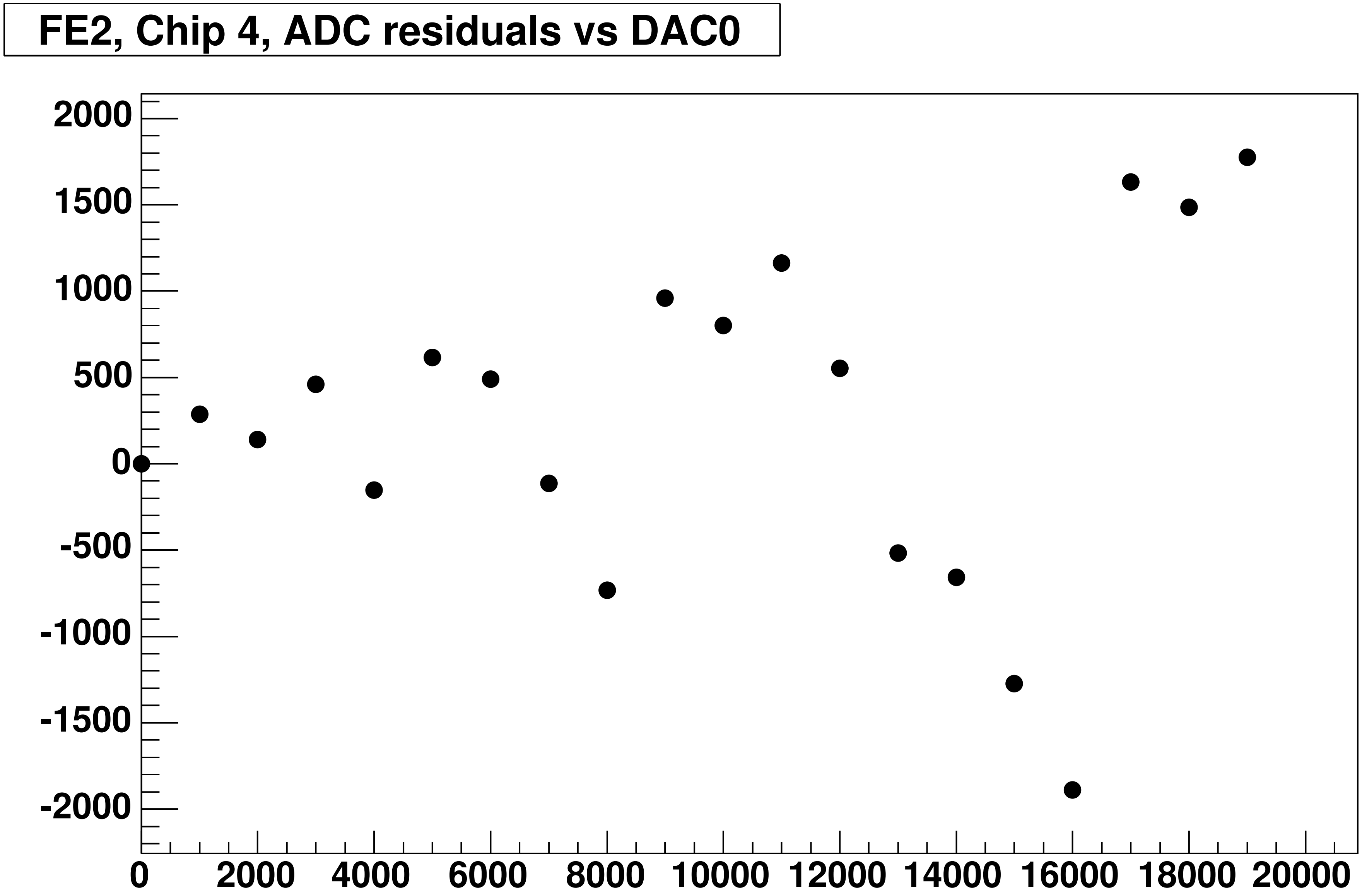


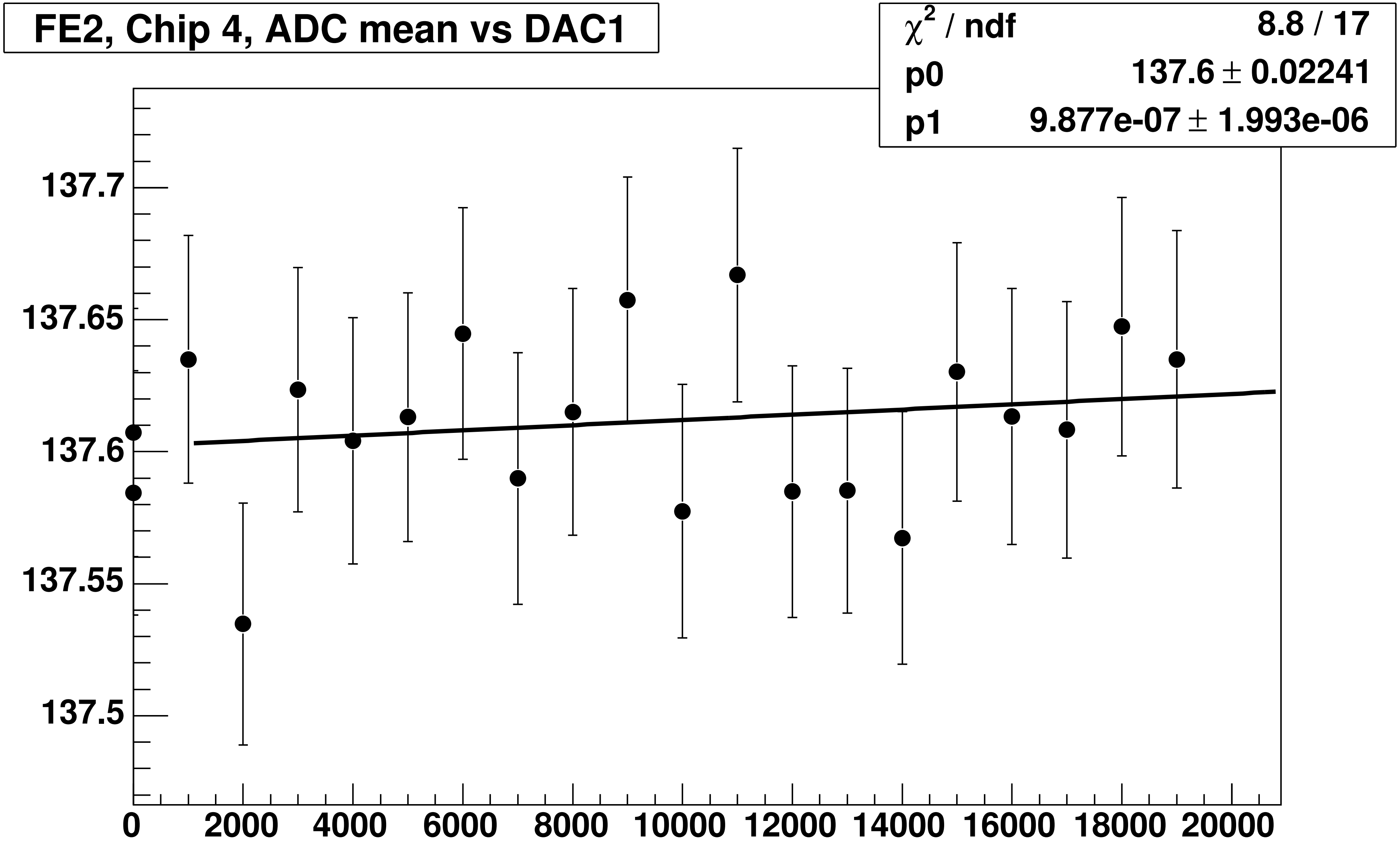
FE2, Chip 3, ADC residuals vs DAC1
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



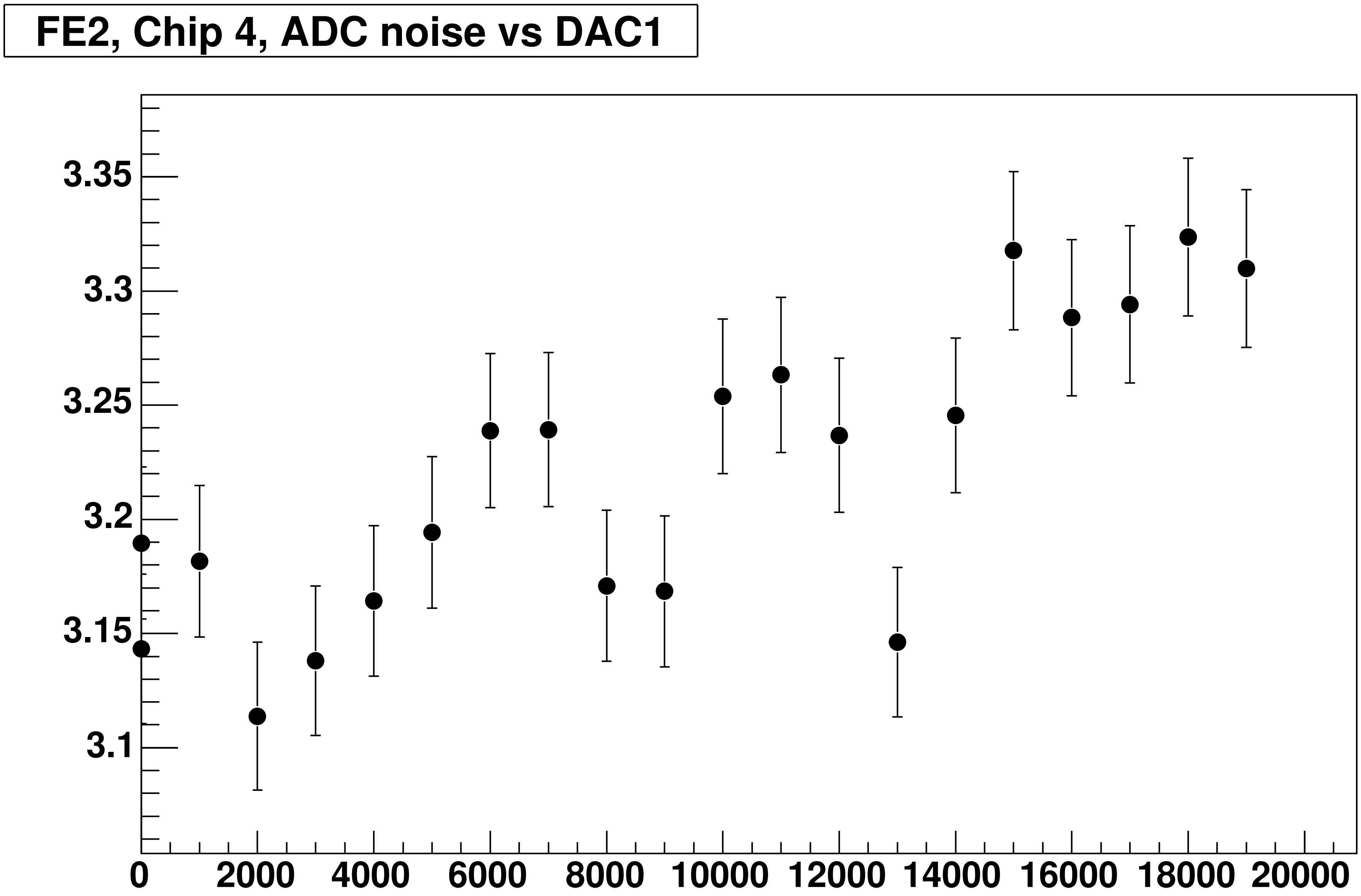
FE2, Chip 4, ADC mean vs DAC0
$\chi^2$ / ndf 7.806e+09 / 17
p0 -291.4 ± 0.0202
p1 0.6057 ± 1.954e-06
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

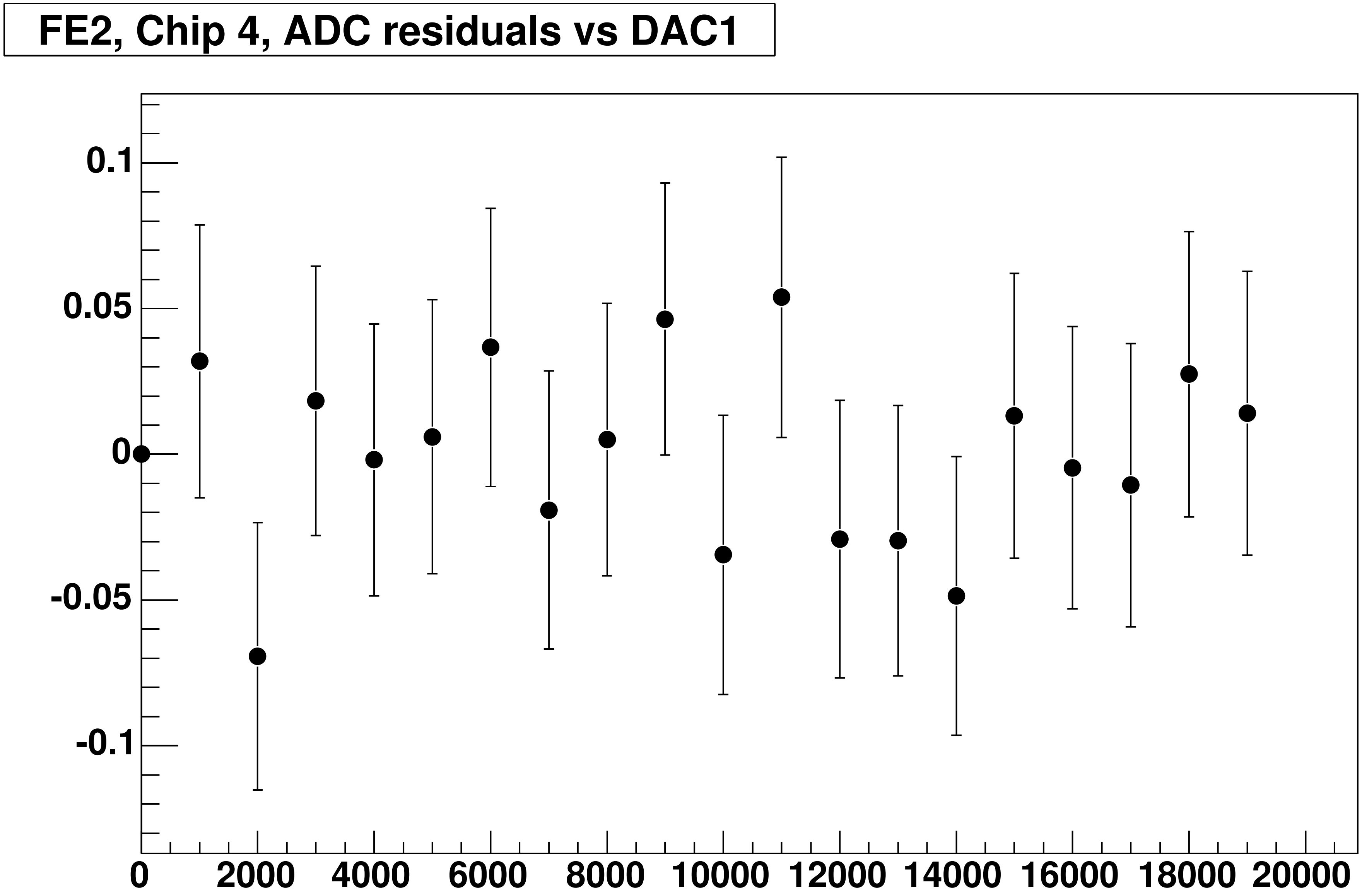

FE2, Chip 4, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

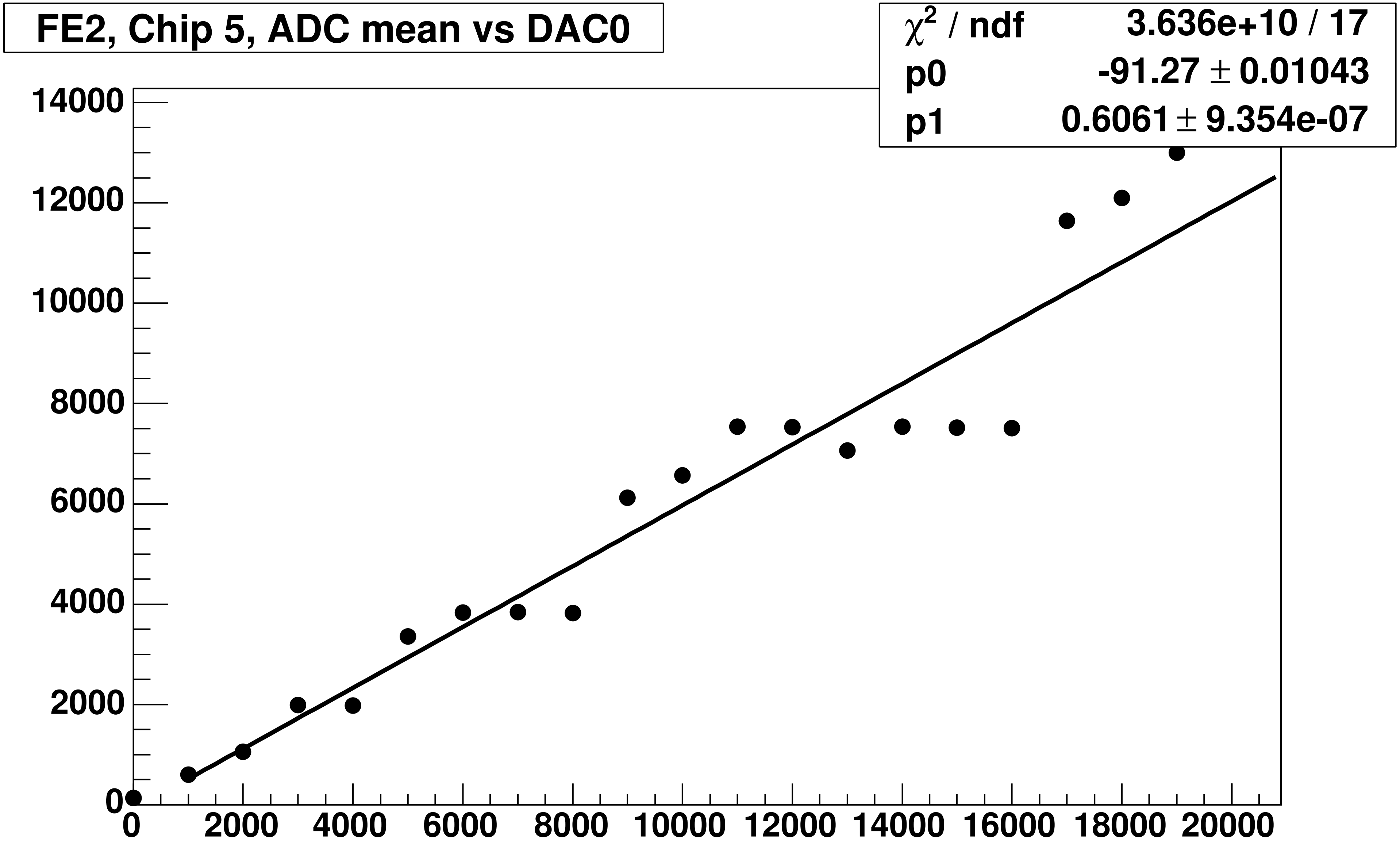

FE2, Chip 4, ADC residuals vs DAC0
2000
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



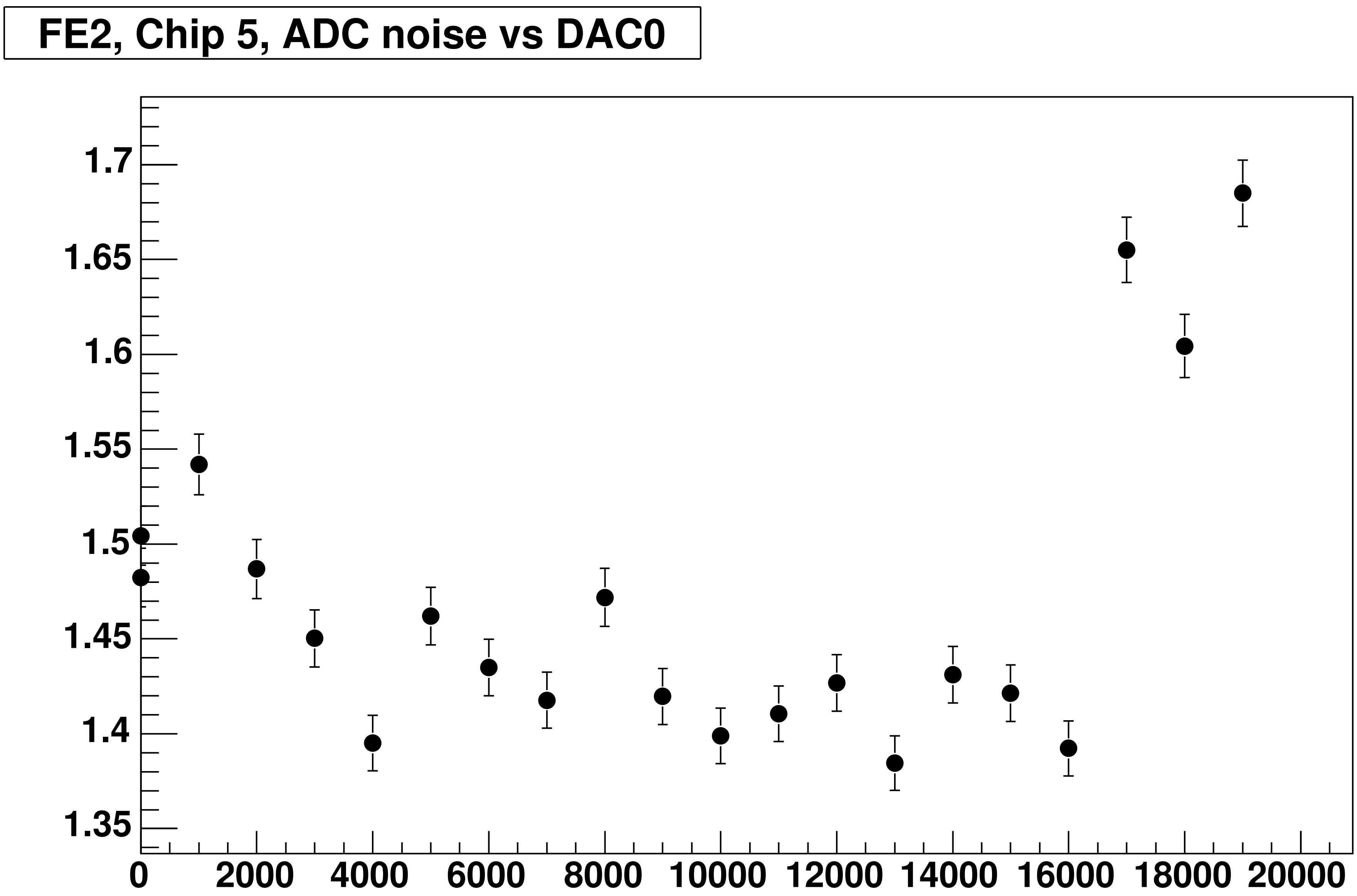
FE2, Chip 4, ADC mean vs DAC1
$\chi^2$ / ndf 8.8 / 17
p0 137.6 ± 0.02241
p1 9.877e-07 ± 1.993e-06
137.7
137.65
137.6
137.55
137.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

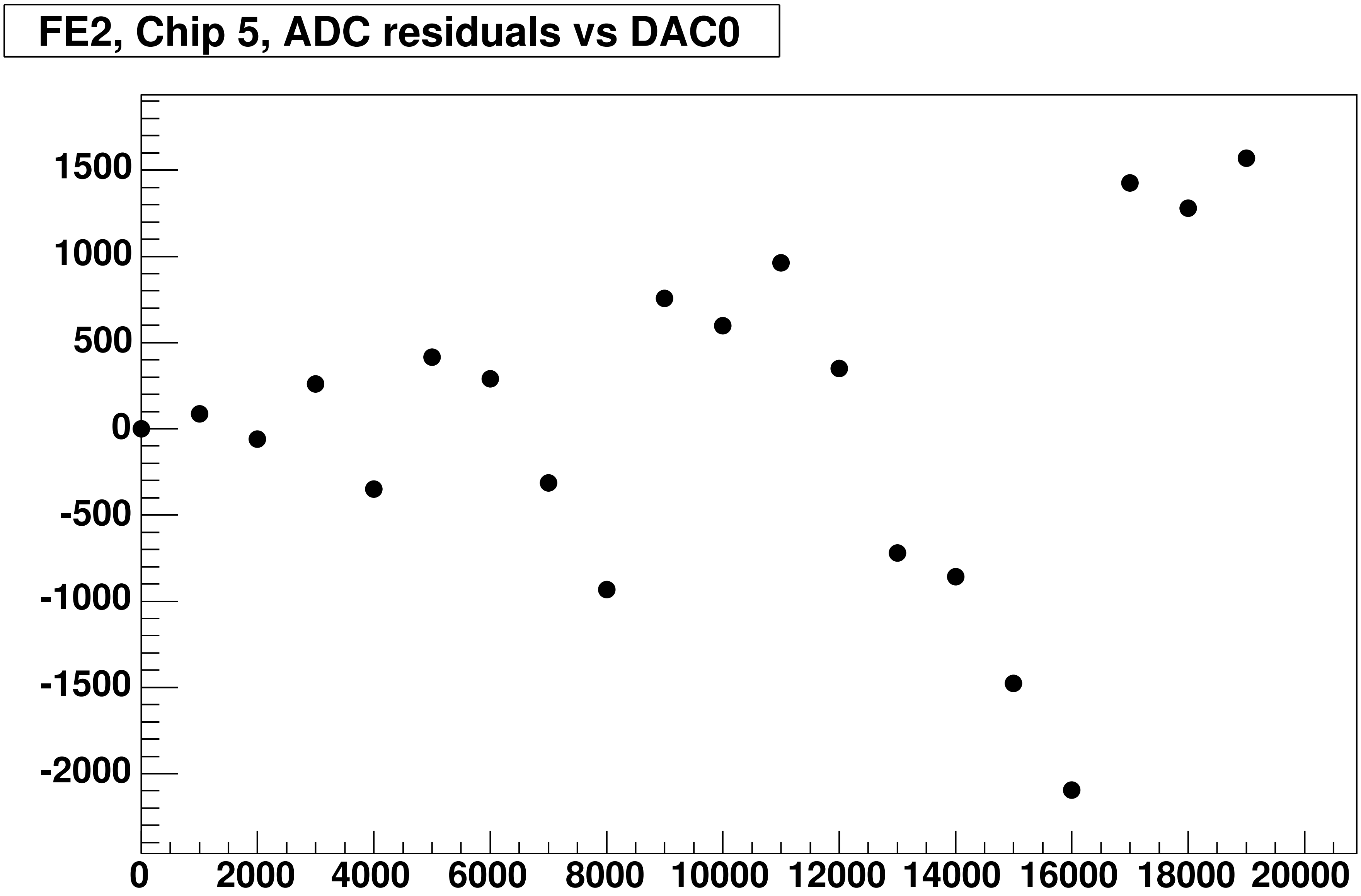

FE2, Chip 4, ADC noise vs DAC1
3.35
3.3
3.25
3.2
3.15
3.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

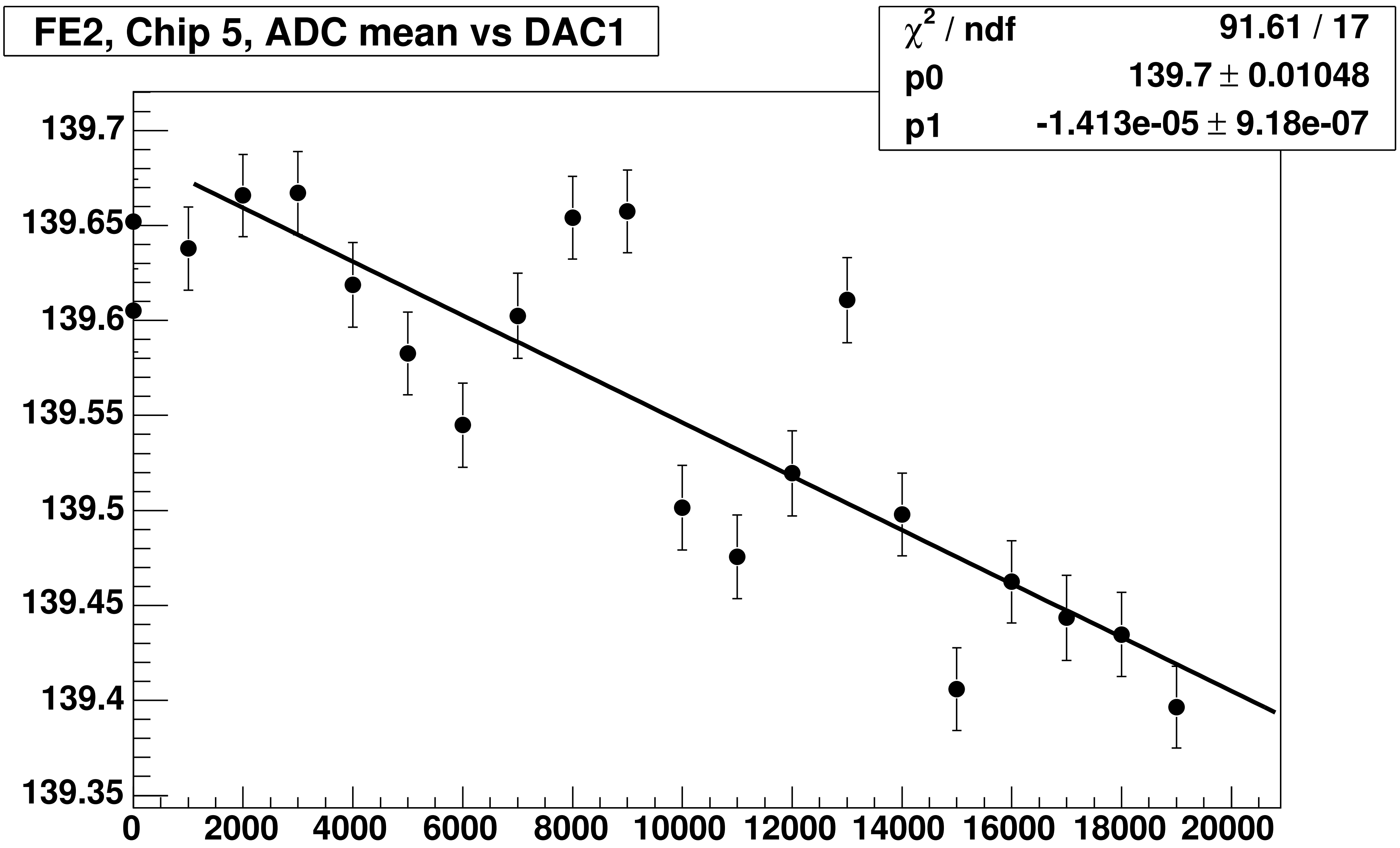

FE2, Chip 4, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

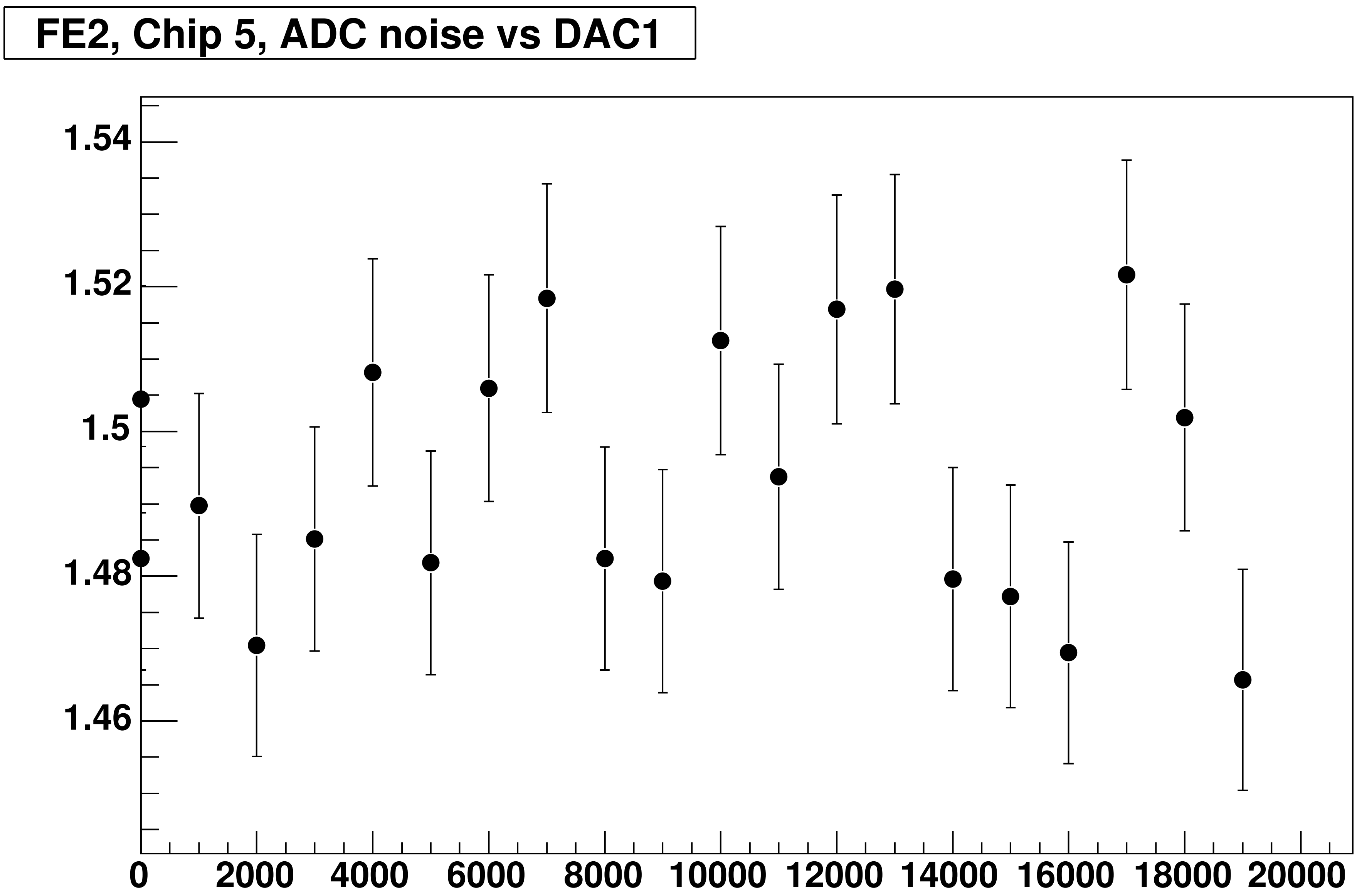


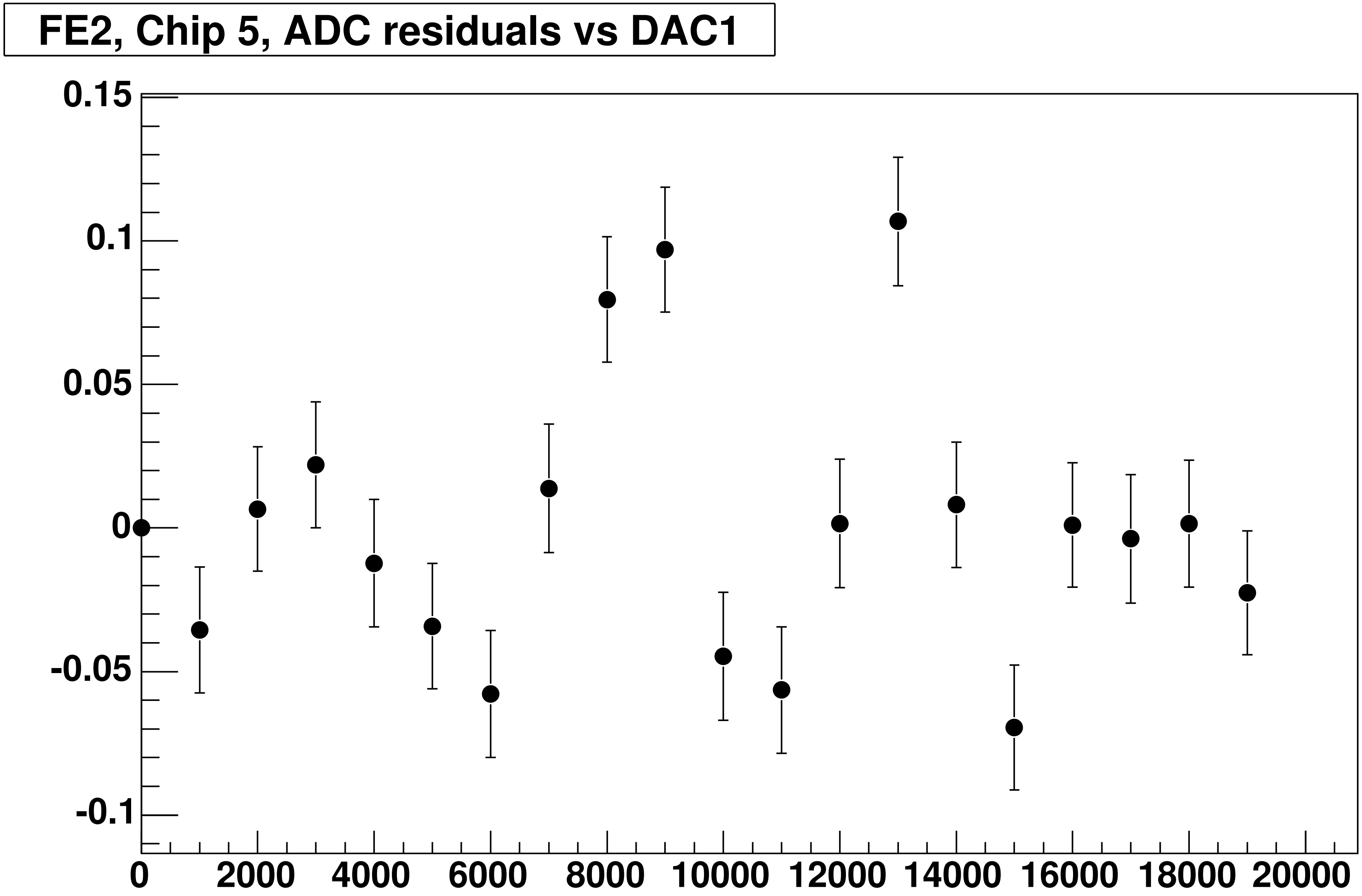
FE2, Chip 5, ADC mean vs DAC0
$\chi^2$ / ndf 3.636e+10 / 17
p0 -91.27 ± 0.01043
p1 0.6061 ± 9.354e-07
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

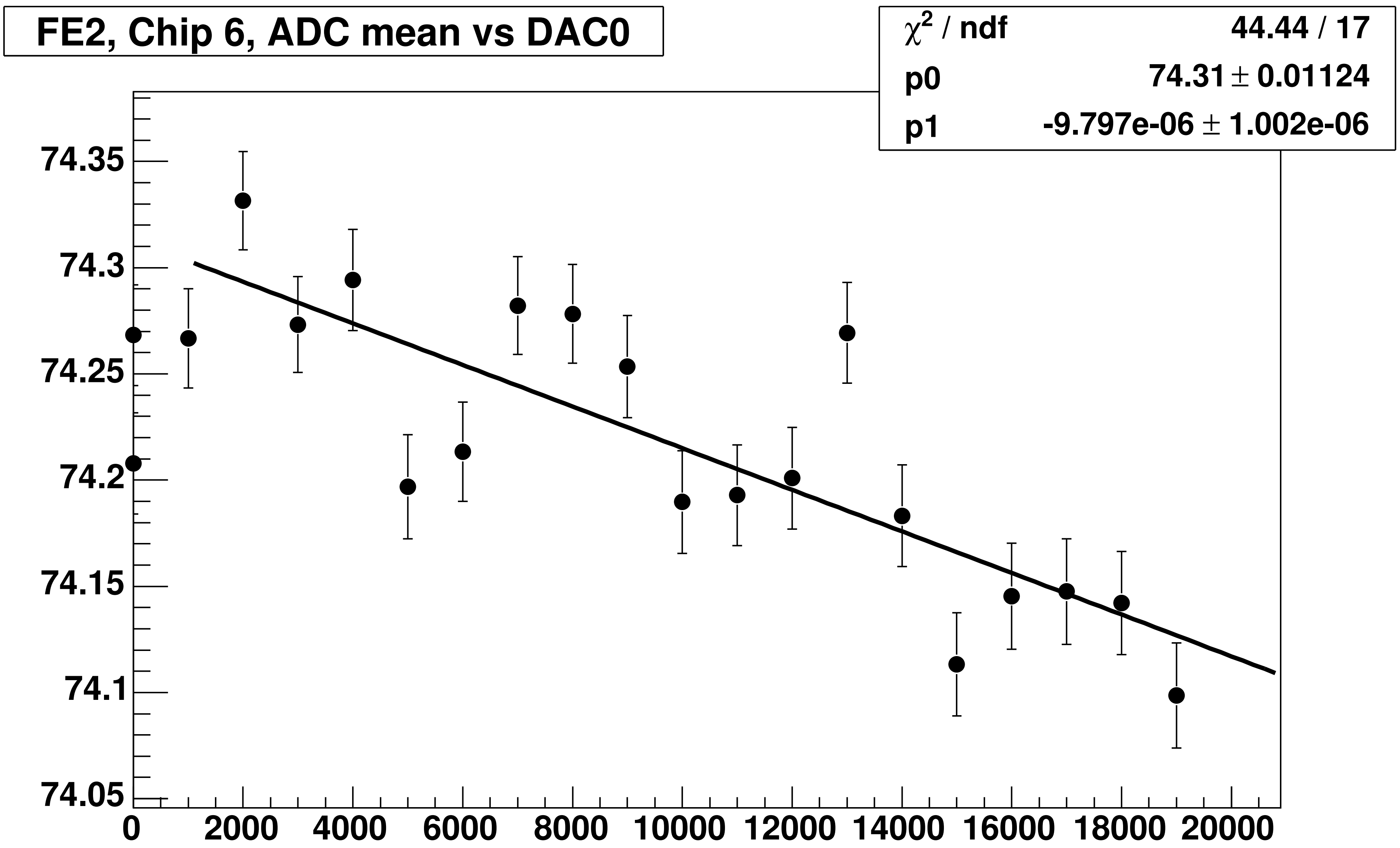

FE2, Chip 5, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

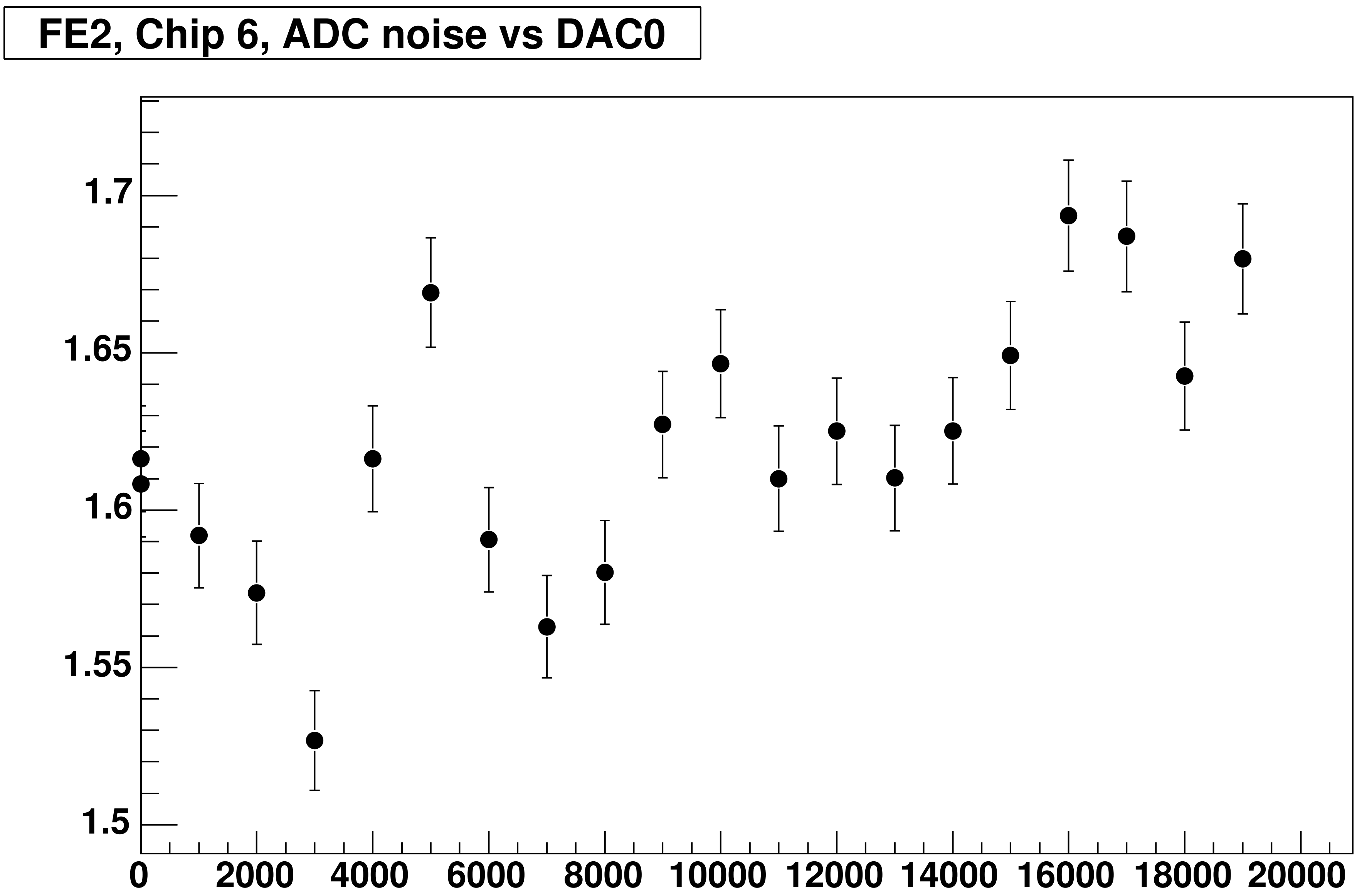

FE2, Chip 5, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE2, Chip 5, ADC mean vs DAC1
χ² / ndf 91.61 / 17
p0 139.7 ± 0.01048
p1 -1.413e-05 ± 9.18e-07
139.7
139.65
139.6
139.55
139.5
139.45
139.4
139.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

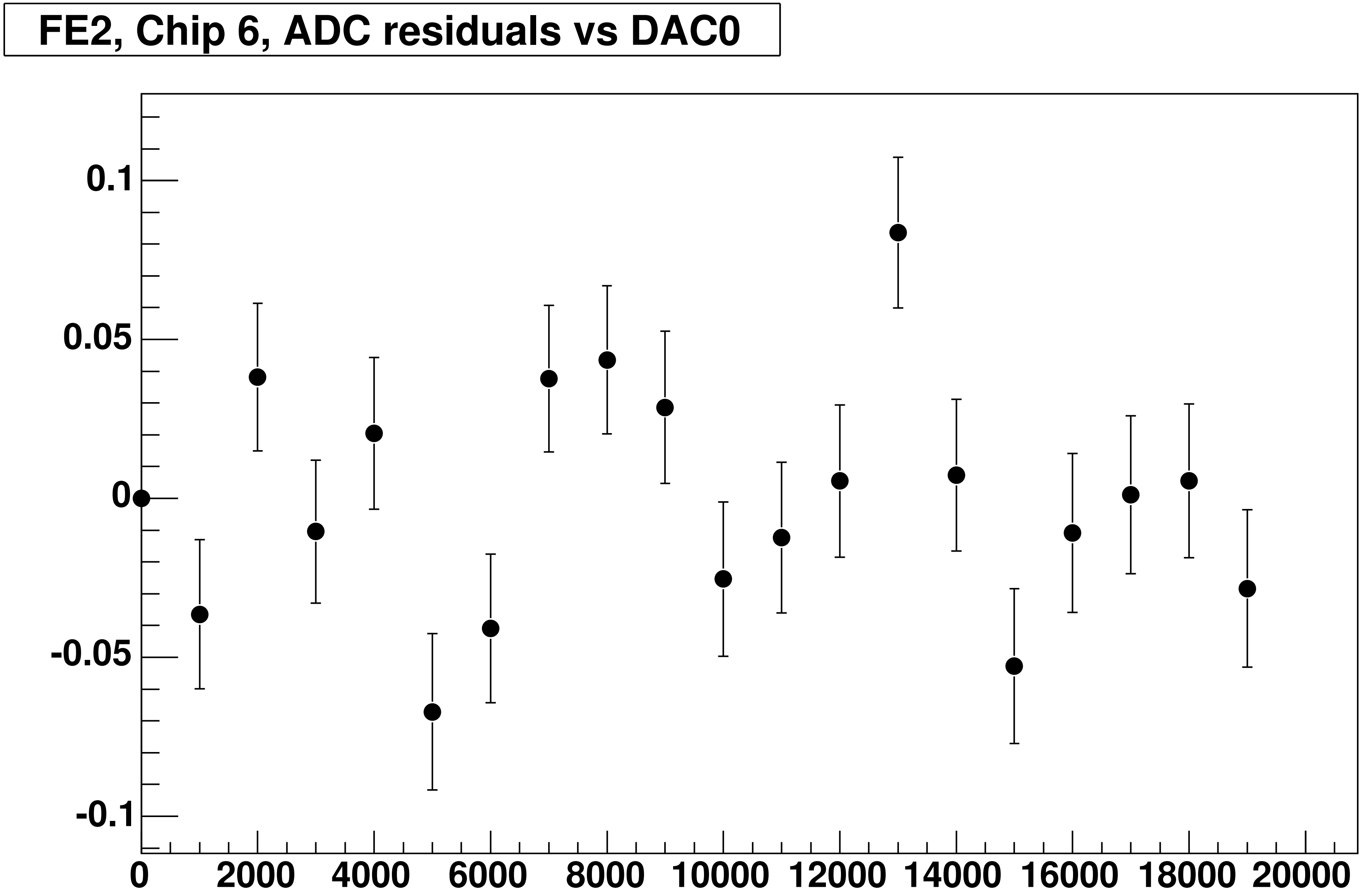

FE2, Chip 5, ADC noise vs DAC1
1.54
1.52
1.5
1.48
1.46
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE2, Chip 5, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

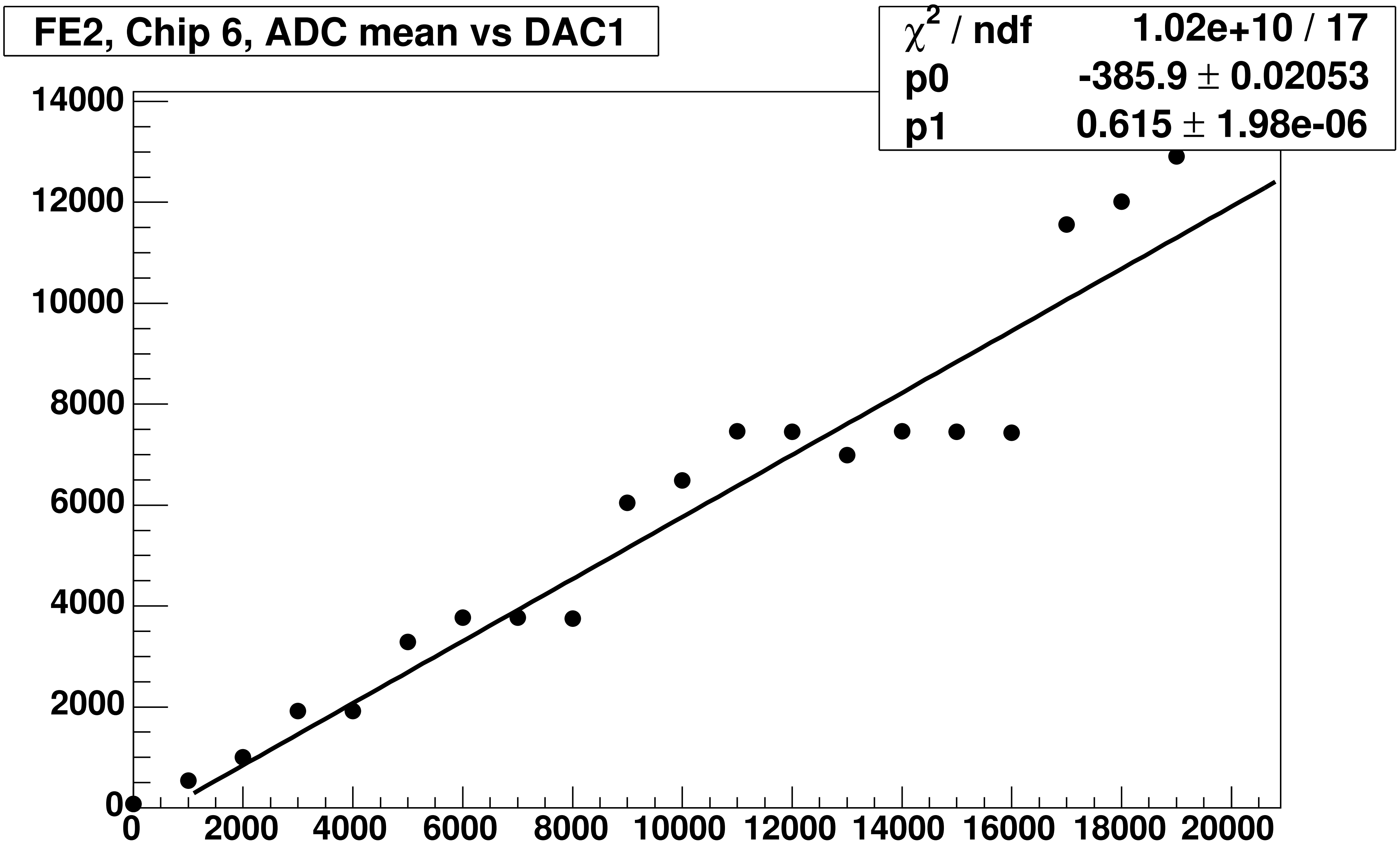

FE2, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 44.44 / 17
p0 74.31 ± 0.01124
p1 -9.797e-06 ± 1.002e-06
74.35
74.3
74.25
74.2
74.15
74.1
74.05
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

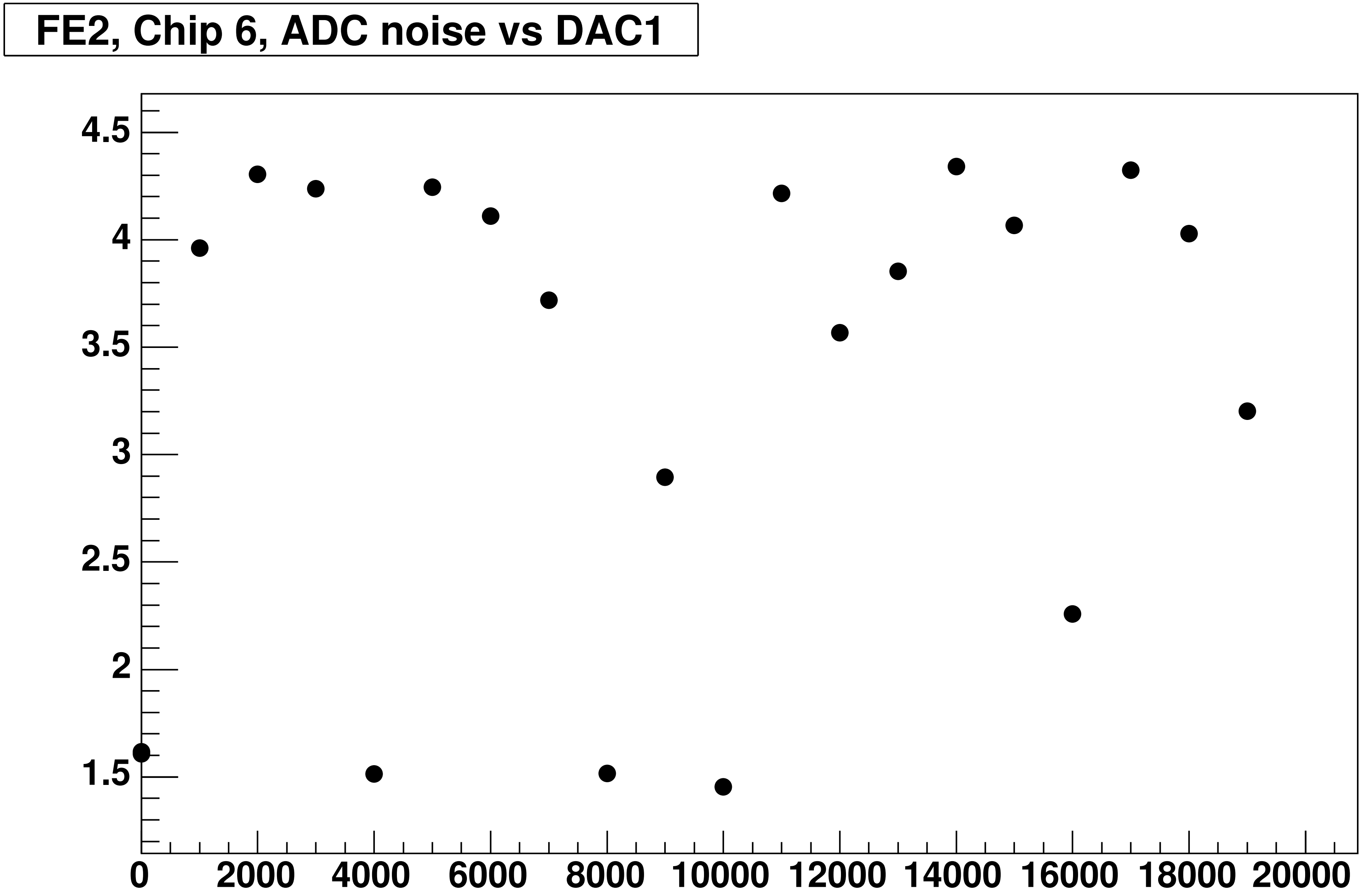


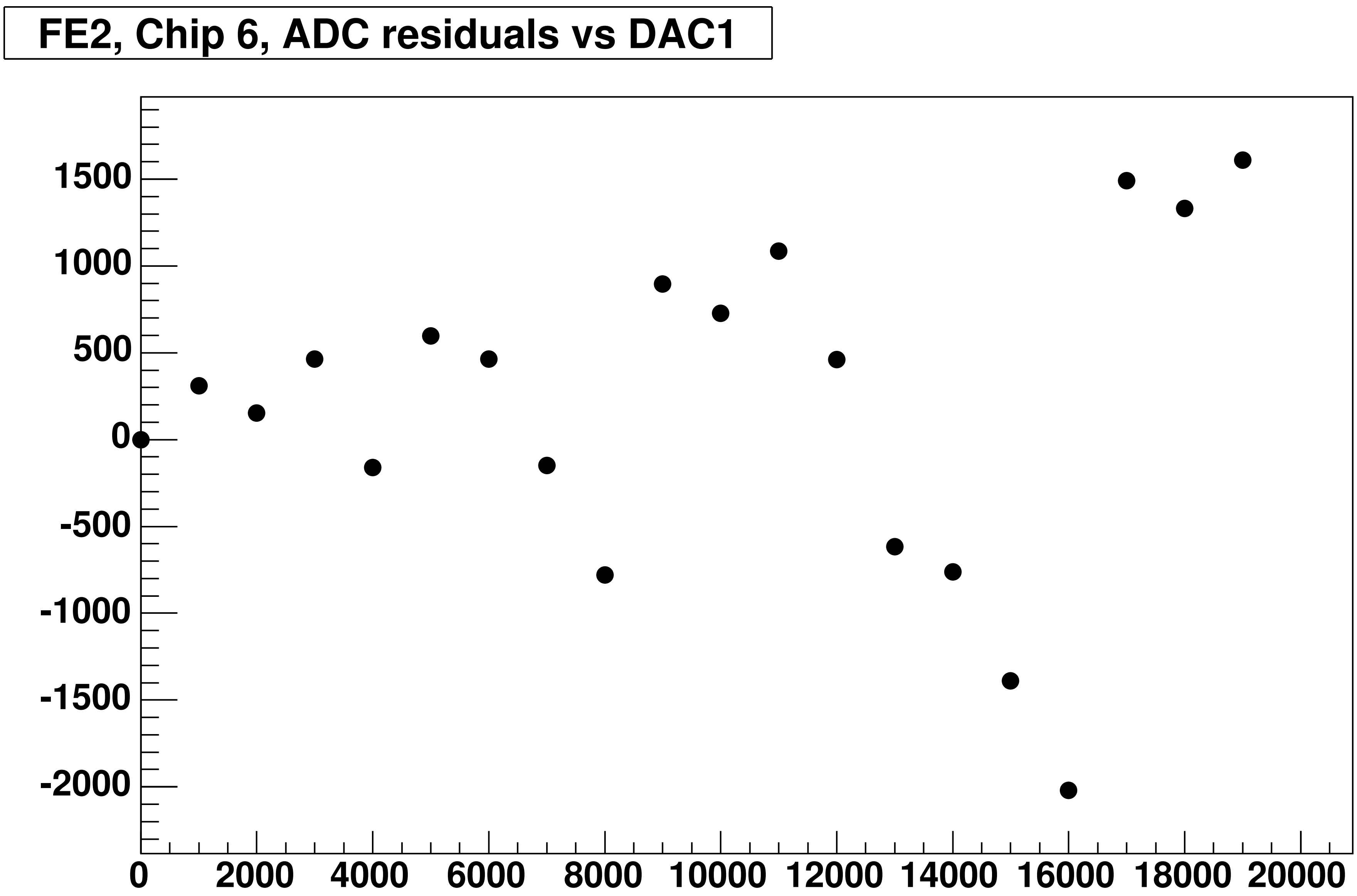
FE2, Chip 6, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

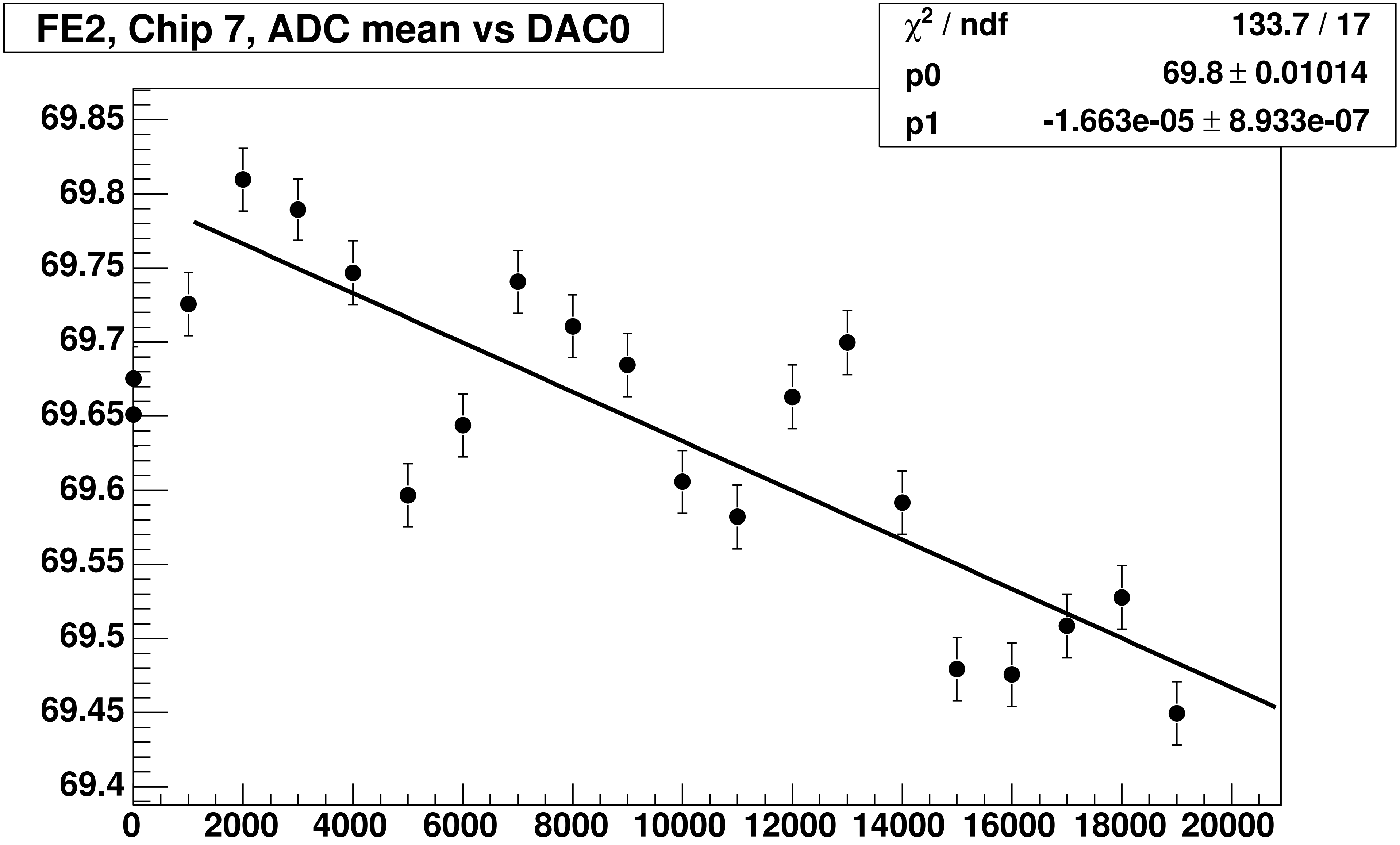


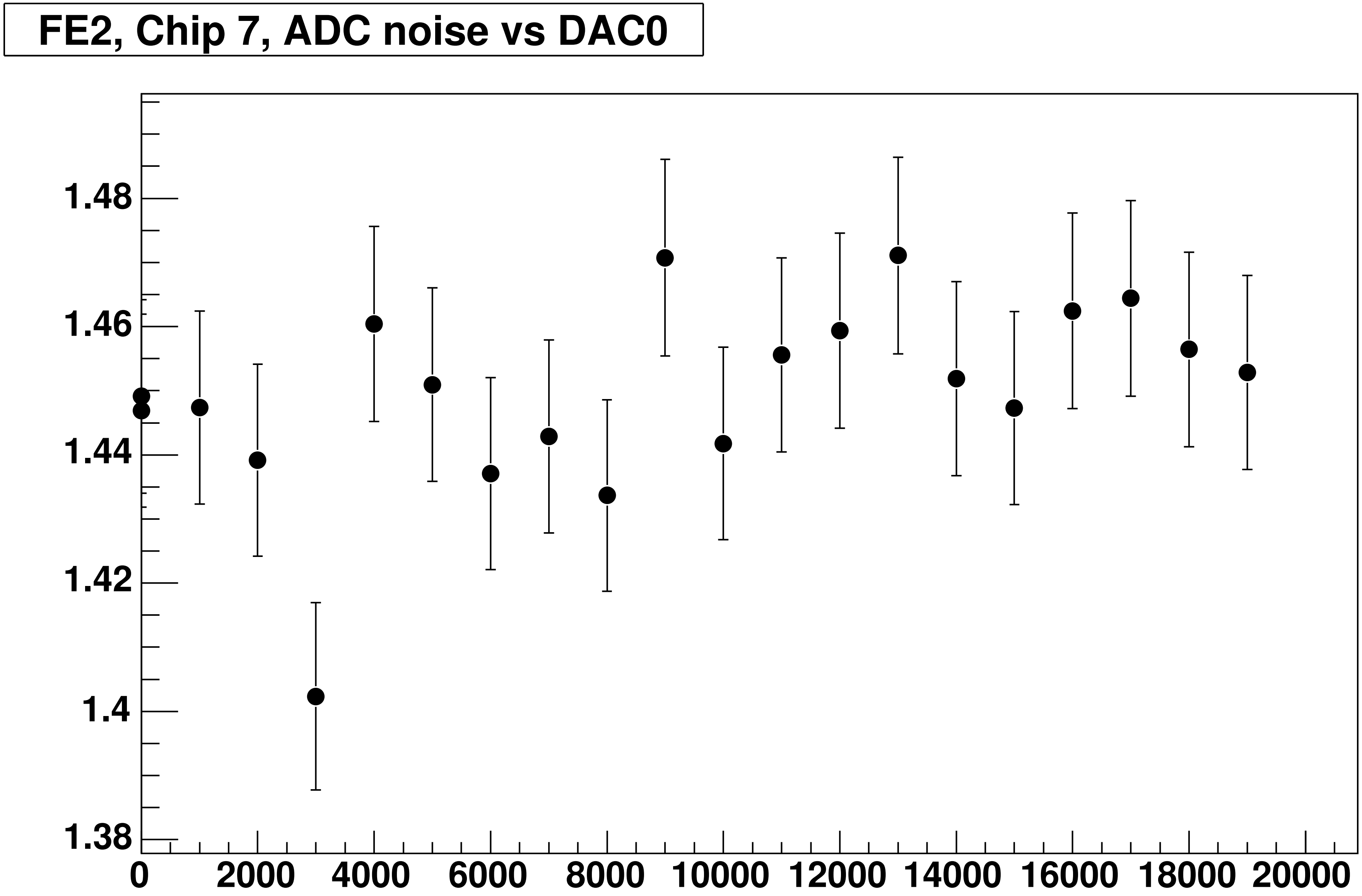
FE2, Chip 6, ADC residuals vs DAC0
0.1
0.05
0
-0.05
-0.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE2, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 1.02e+10 / 17
p0 -385.9 ± 0.02053
p1 0.615 ± 1.98e-06
0
2000
4000
6000
8000
10000
12000
14000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

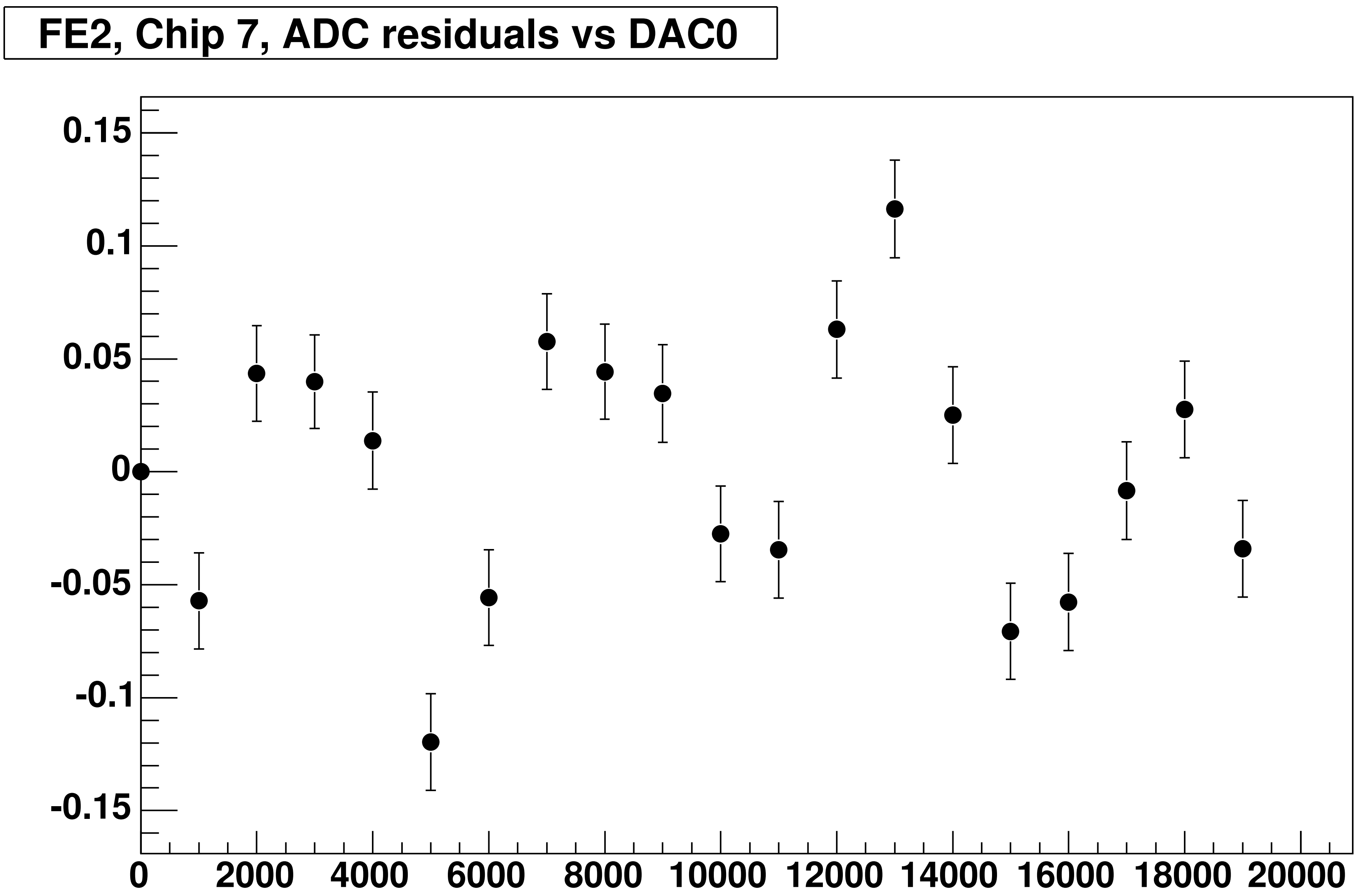

FE2, Chip 6, ADC noise vs DAC1
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

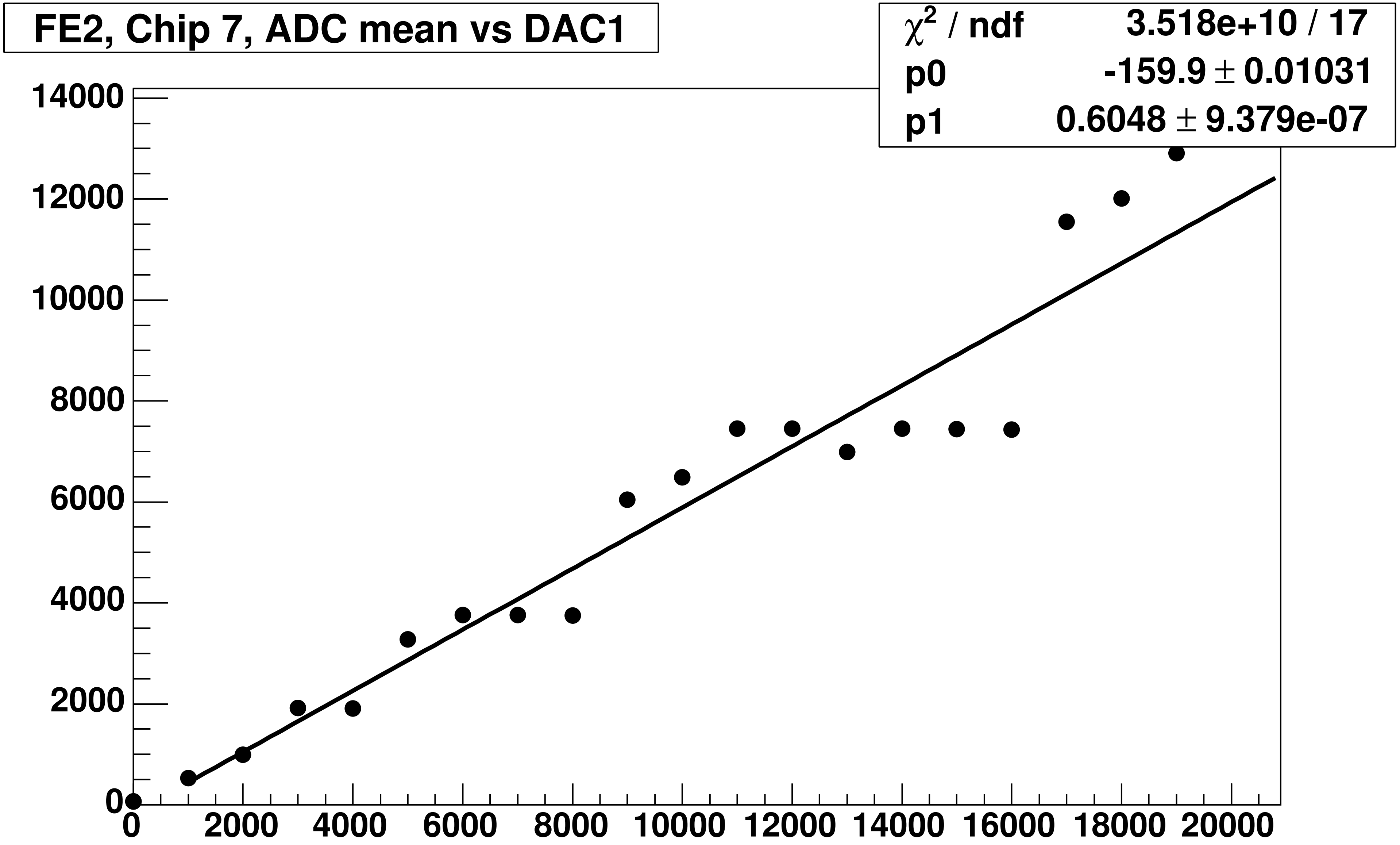

FE2, Chip 6, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE2, Chip 7, ADC mean vs DAC0
χ² / ndf 133.7 / 17
p0 69.8 ± 0.01014
p1 -1.663e-05 ± 8.933e-07
69.85
69.8
69.75
69.7
69.65
69.6
69.55
69.5
69.45
69.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

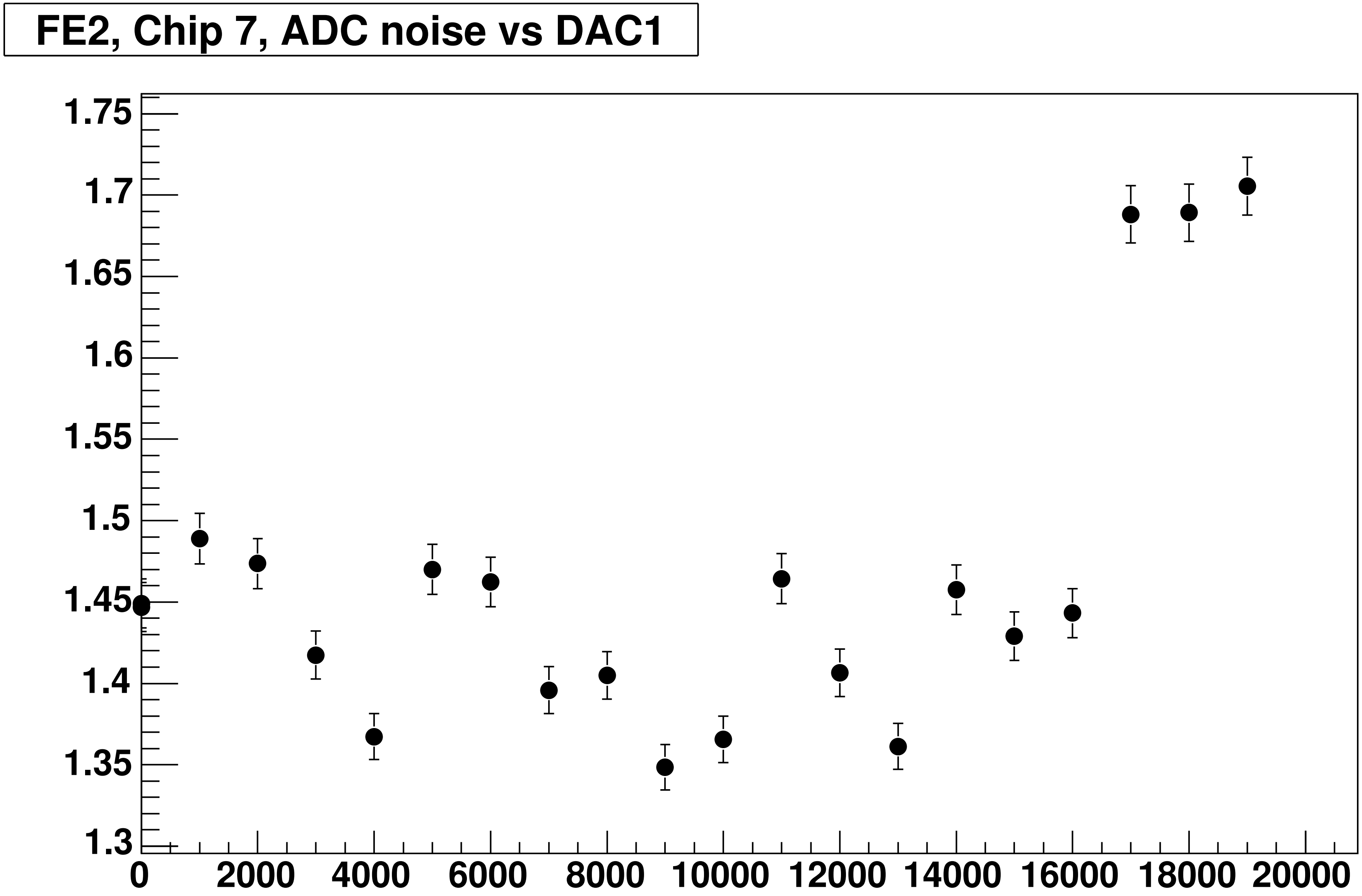


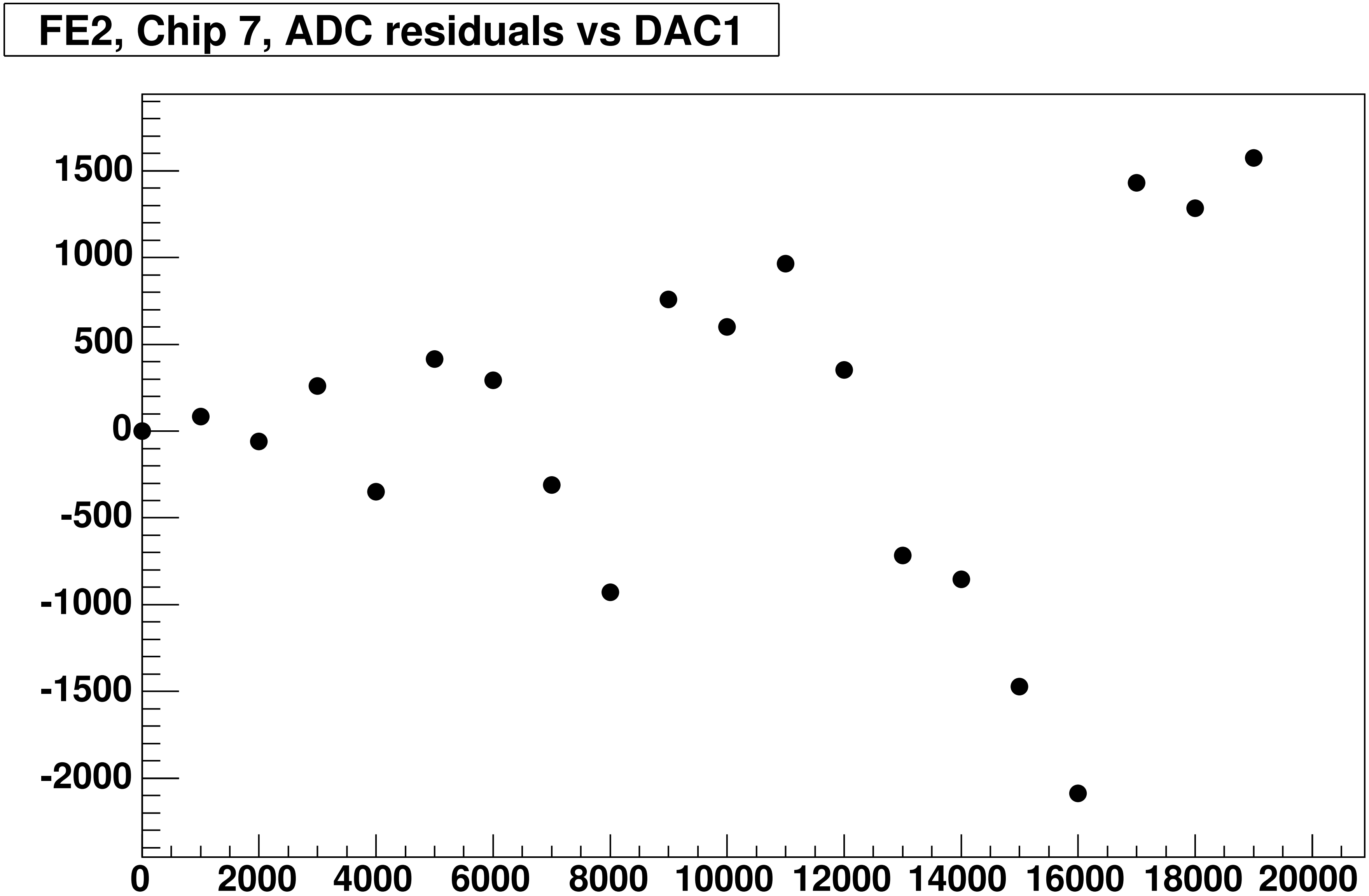
FE2, Chip 7, ADC noise vs DAC0
1.48
1.46
1.44
1.42
1.4
1.38
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

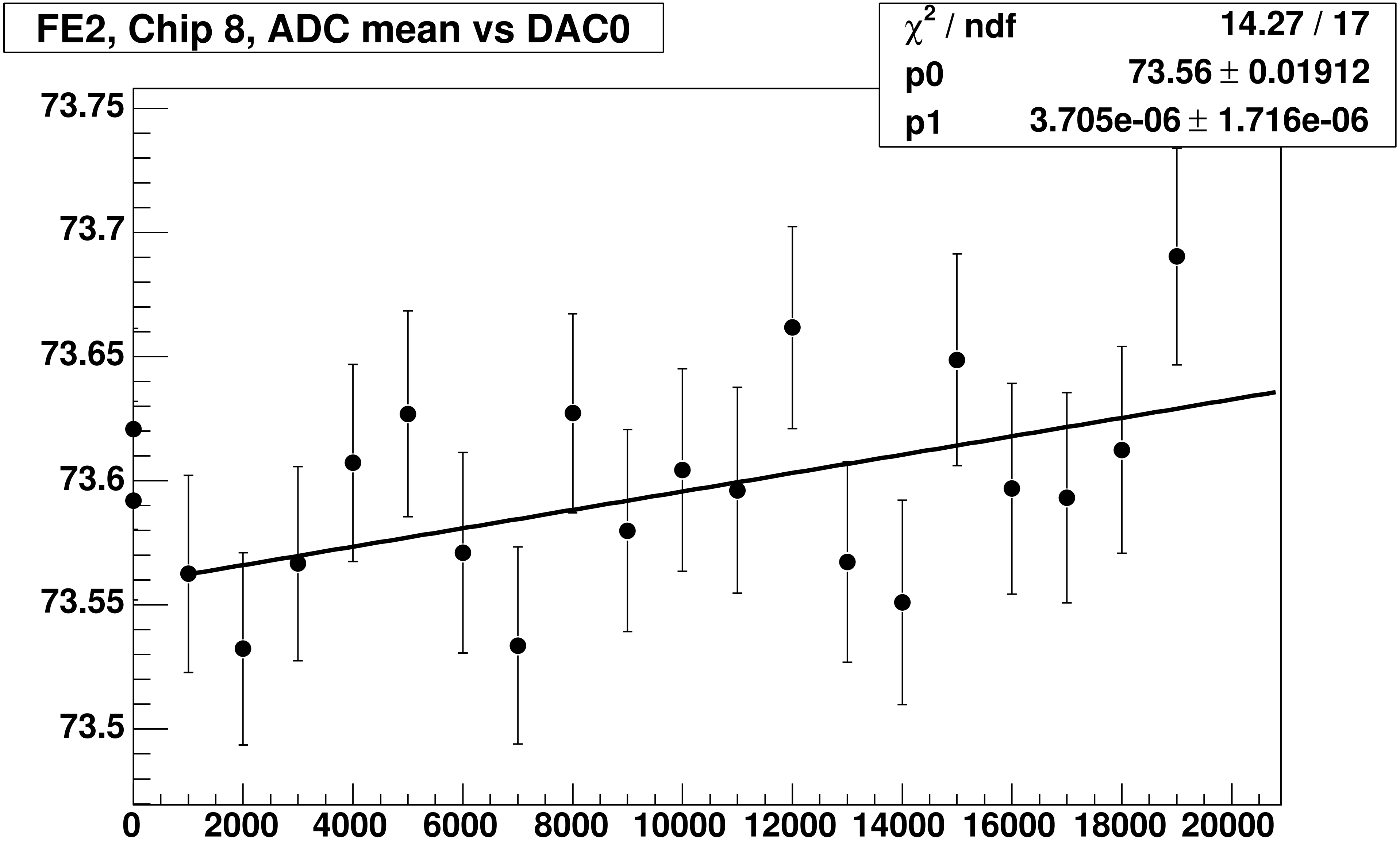

FE2, Chip 7, ADC residuals vs DAC0
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

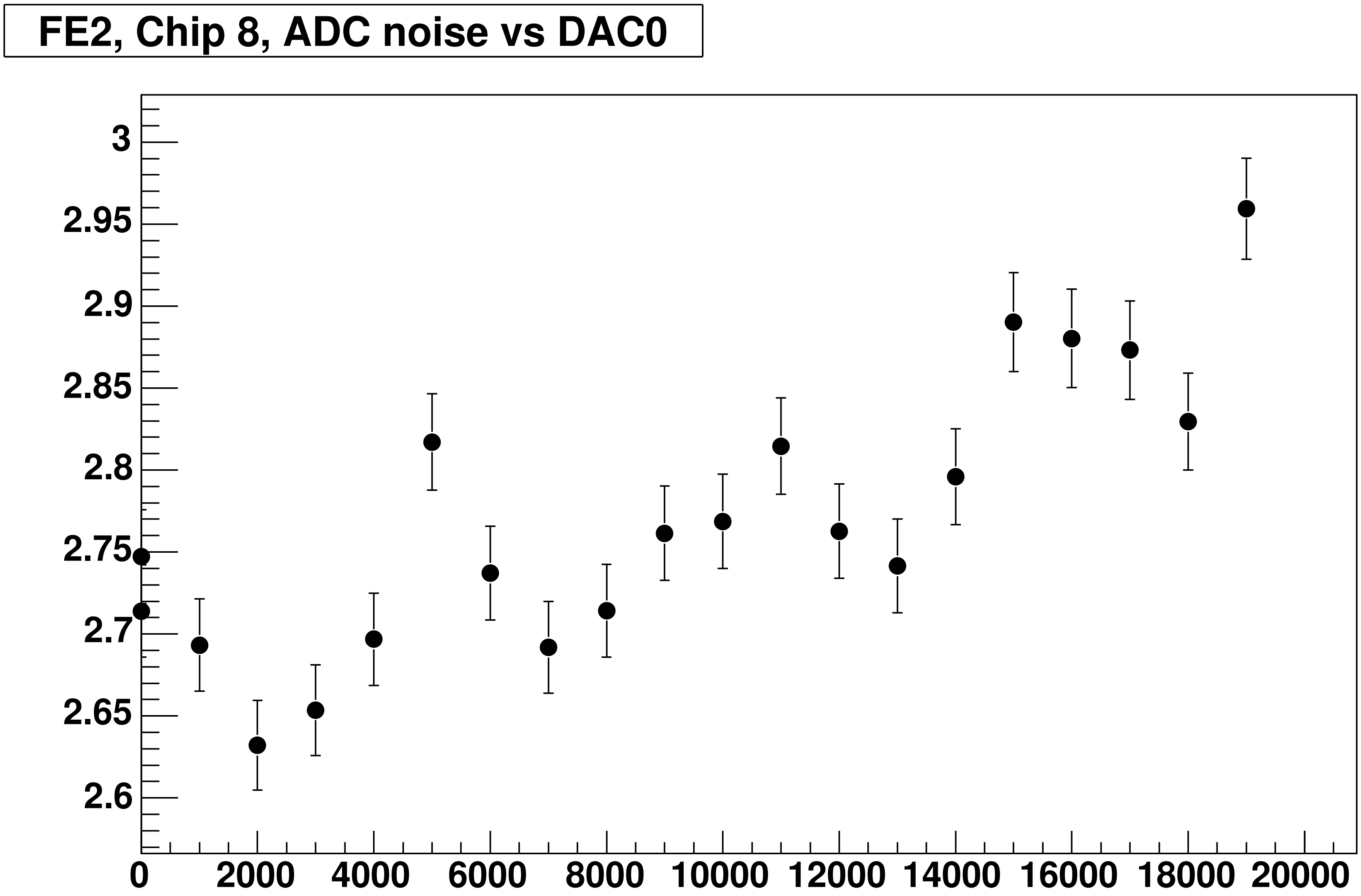


FE2, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 3.518e+10 / 17
p0 -159.9 ± 0.01031
p1 0.6048 ± 9.379e-07
0
2000
4000
6000
8000
10000
12000
14000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

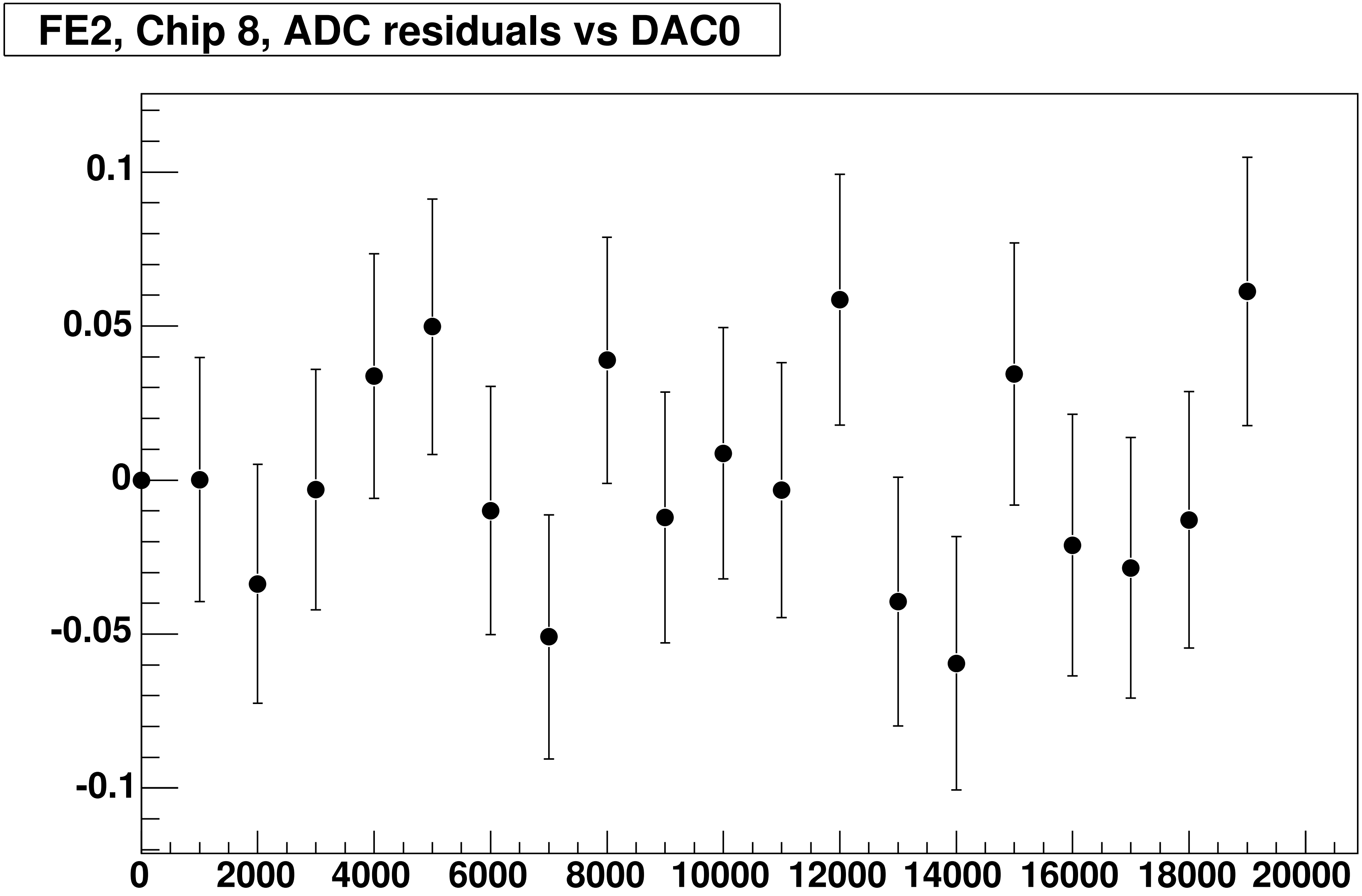

FE2, Chip 7, ADC noise vs DAC1
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

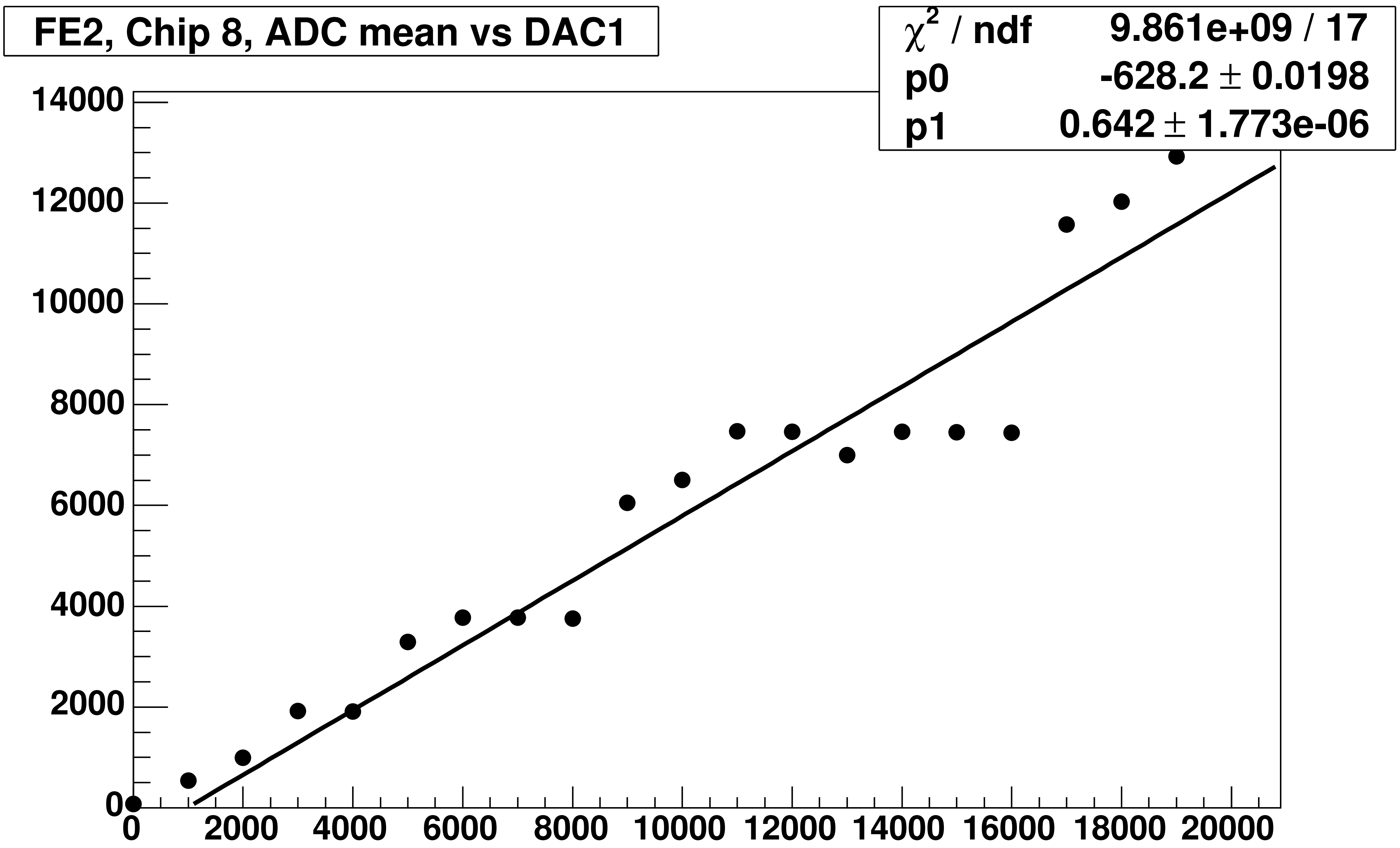

FE2, Chip 7, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE2, Chip 8, ADC mean vs DAC0
χ² / ndf 14.27 / 17
p0 73.56 ± 0.01912
p1 3.705e-06 ± 1.716e-06
73.75
73.7
73.65
73.6
73.55
73.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

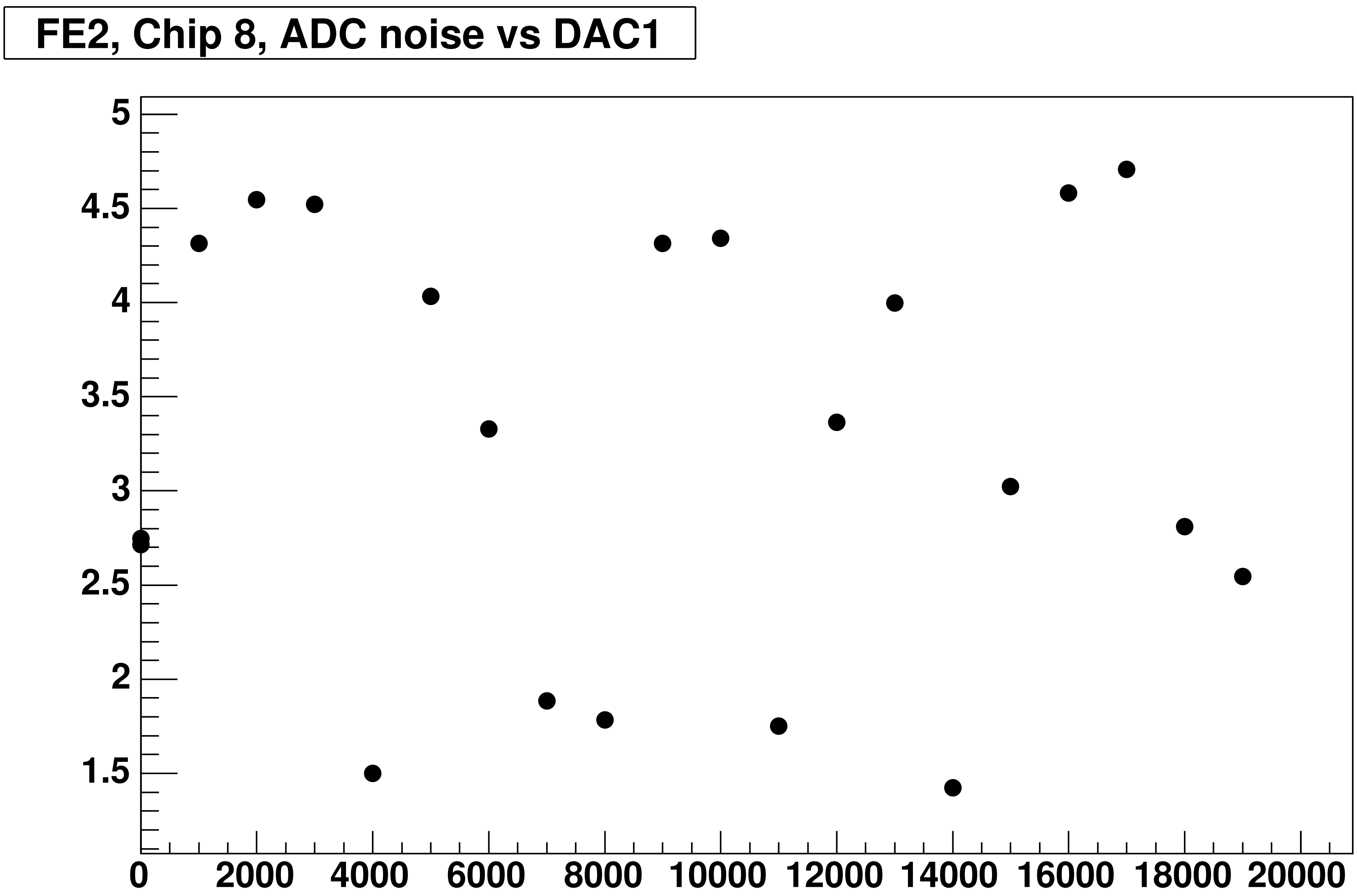


FE2, Chip 8, ADC noise vs DAC0
3
2.95
2.9
2.85
2.8
2.75
2.7
2.65
2.6
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

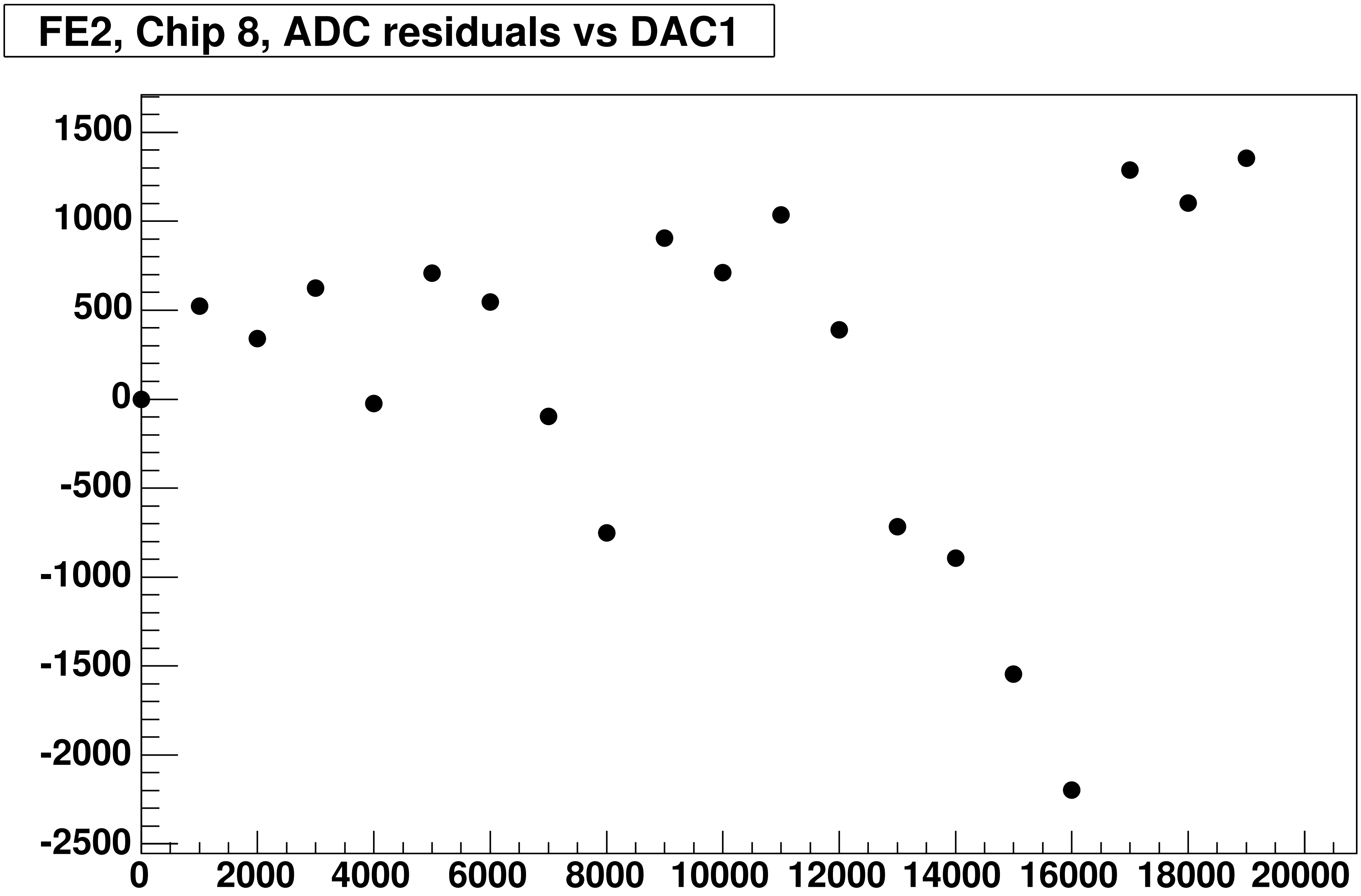

FE2, Chip 8, ADC residuals vs DAC0
0.1
0.05
0
-0.05
-0.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

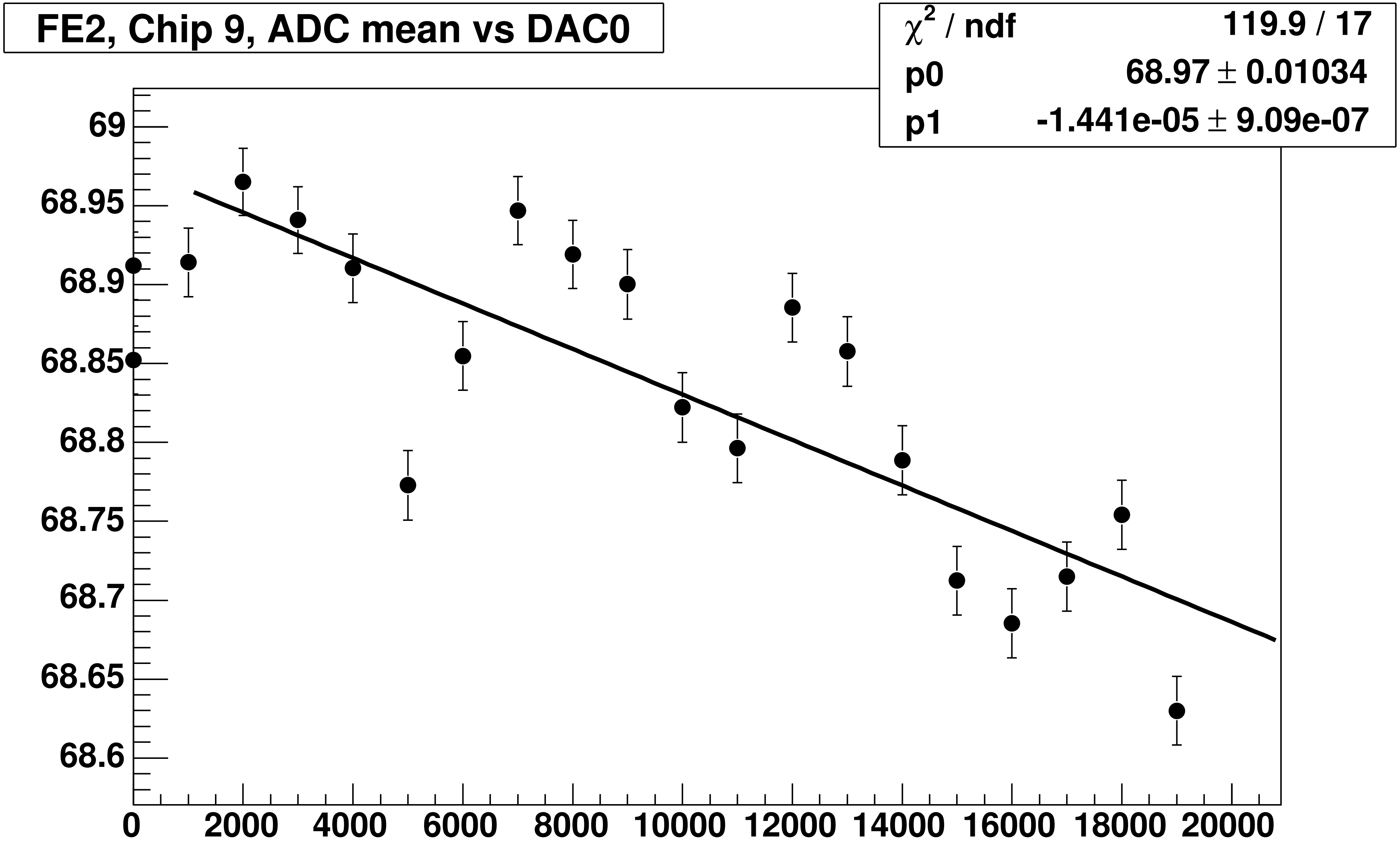


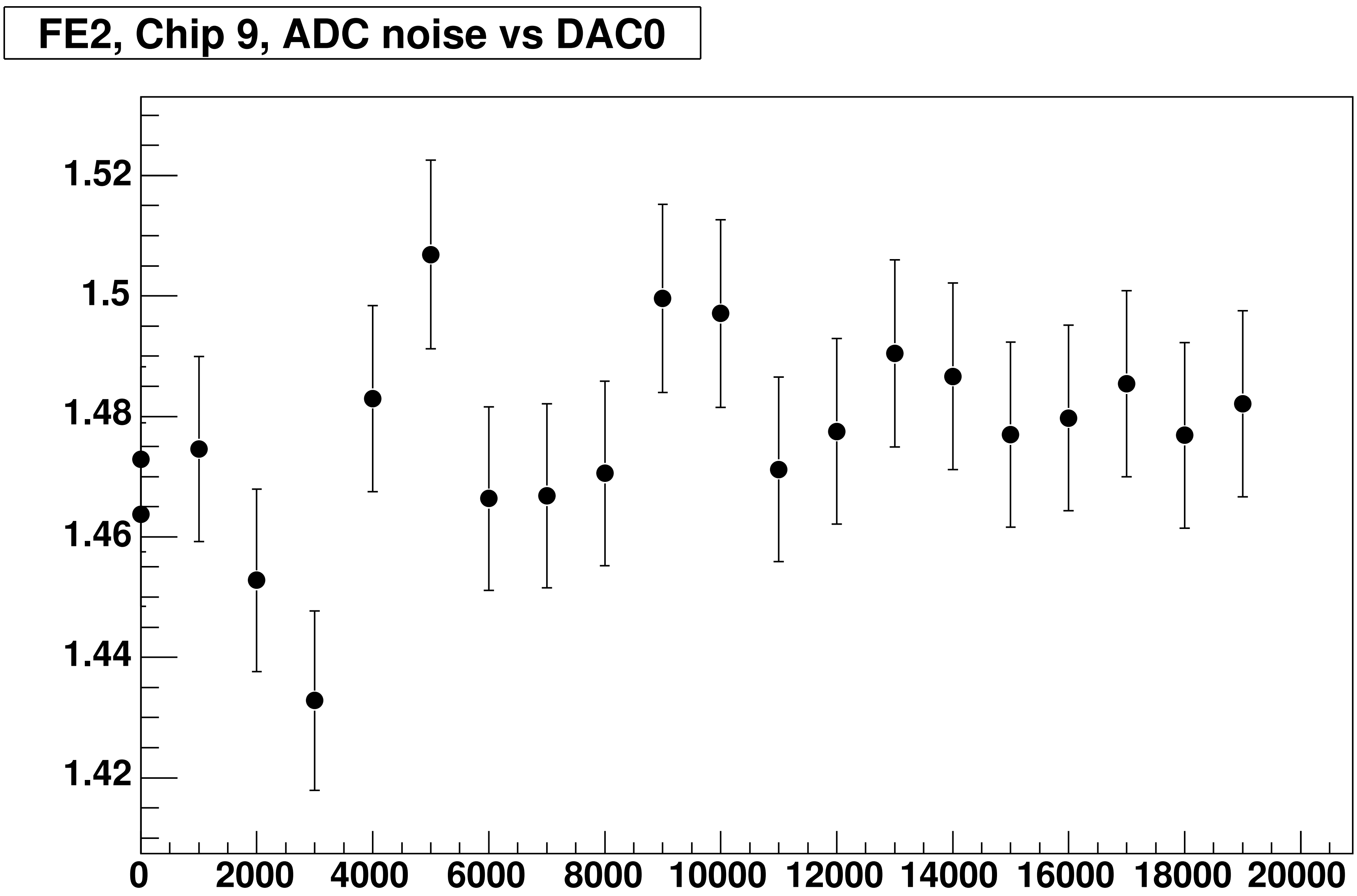
FE2, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 9.861e+09 / 17
p0 -628.2 ± 0.0198
p1 0.642 ± 1.773e-06
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

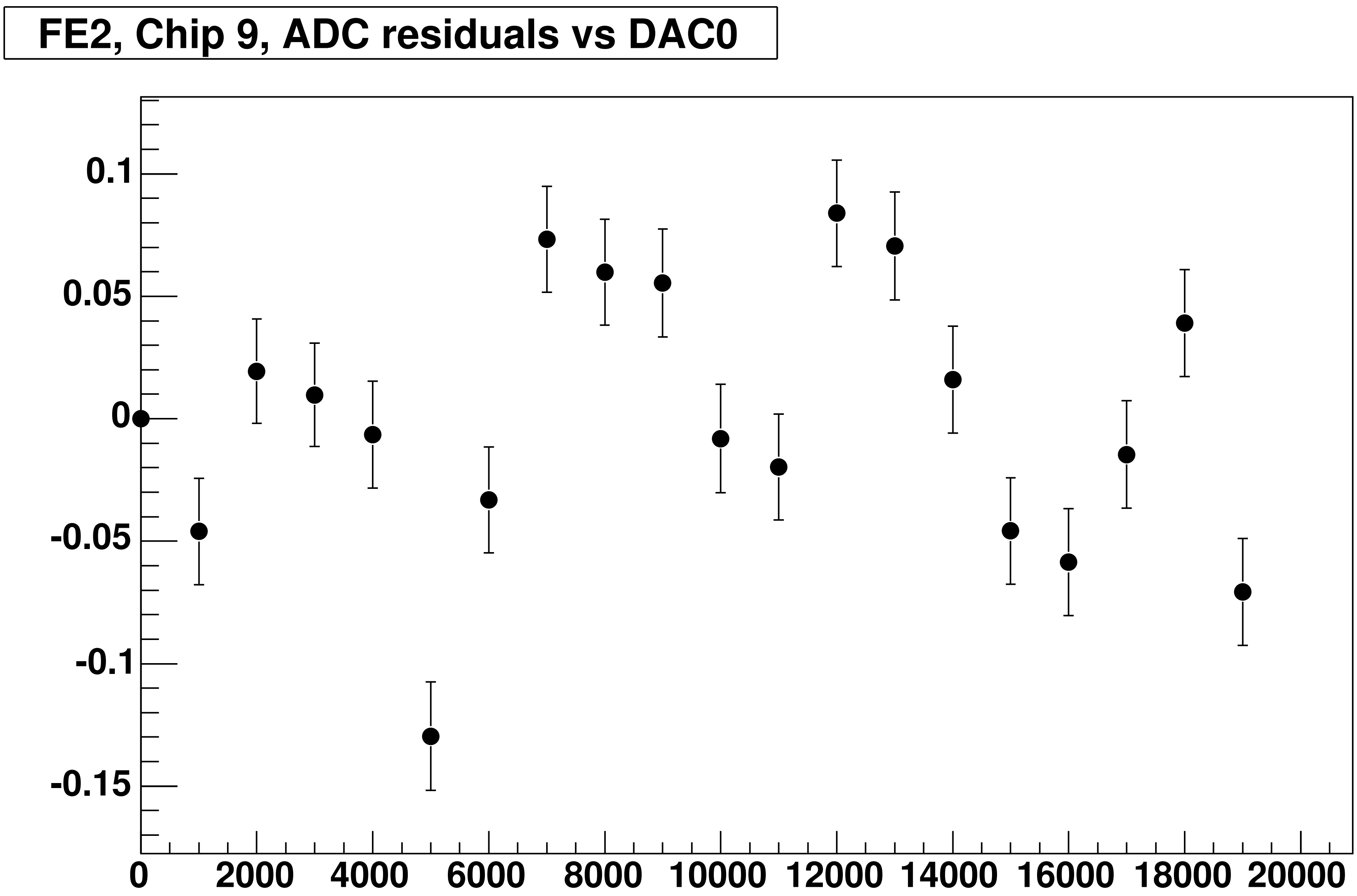


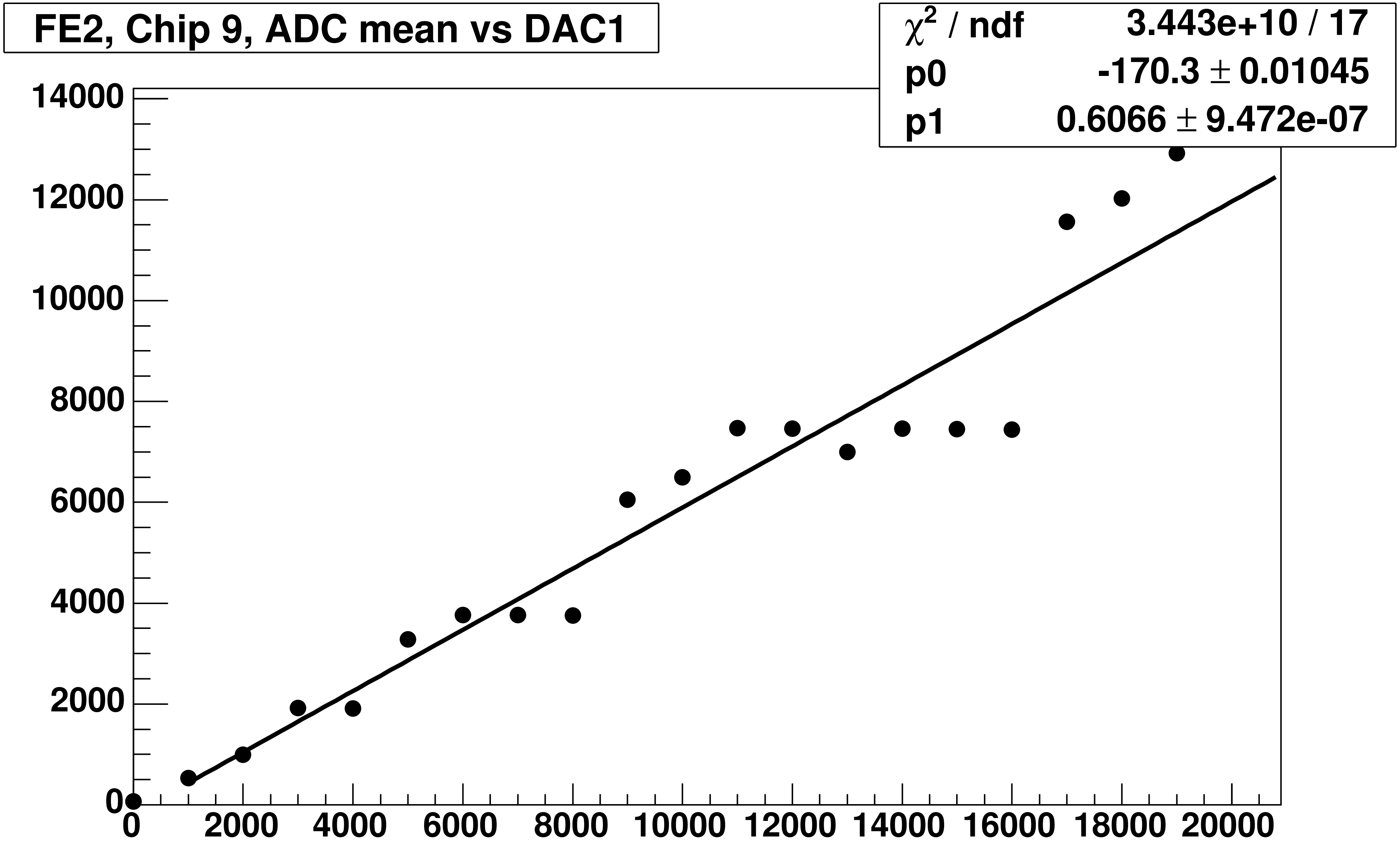
FE2, Chip 8, ADC noise vs DAC1
5
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

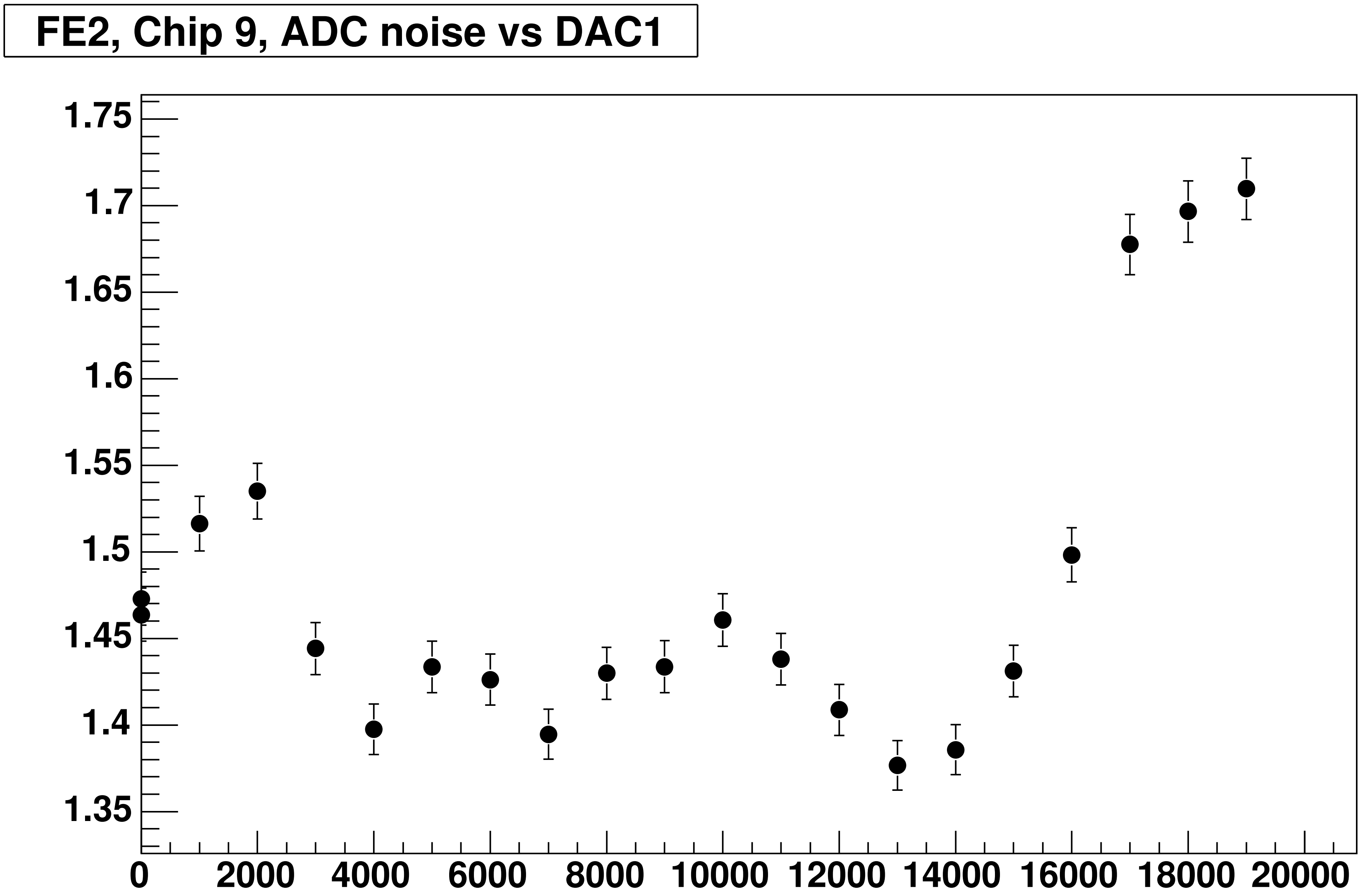

FE2, Chip 8, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

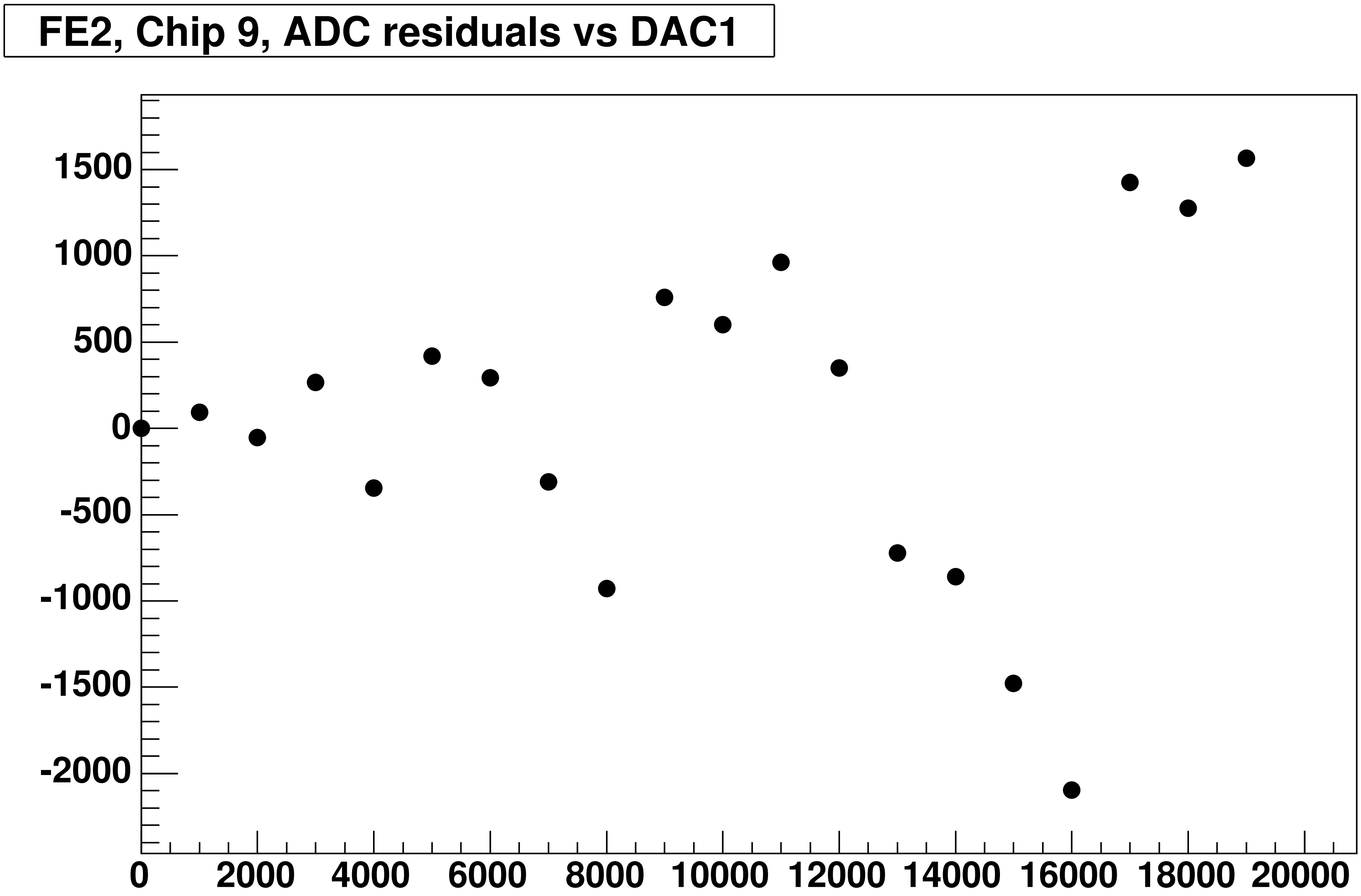

FE2, Chip 9, ADC mean vs DAC0
$\chi^2$ / ndf 119.9 / 17
p0 68.97 ± 0.01034
p1 -1.441e-05 ± 9.09e-07
69
68.95
68.9
68.85
68.8
68.75
68.7
68.65
68.6
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

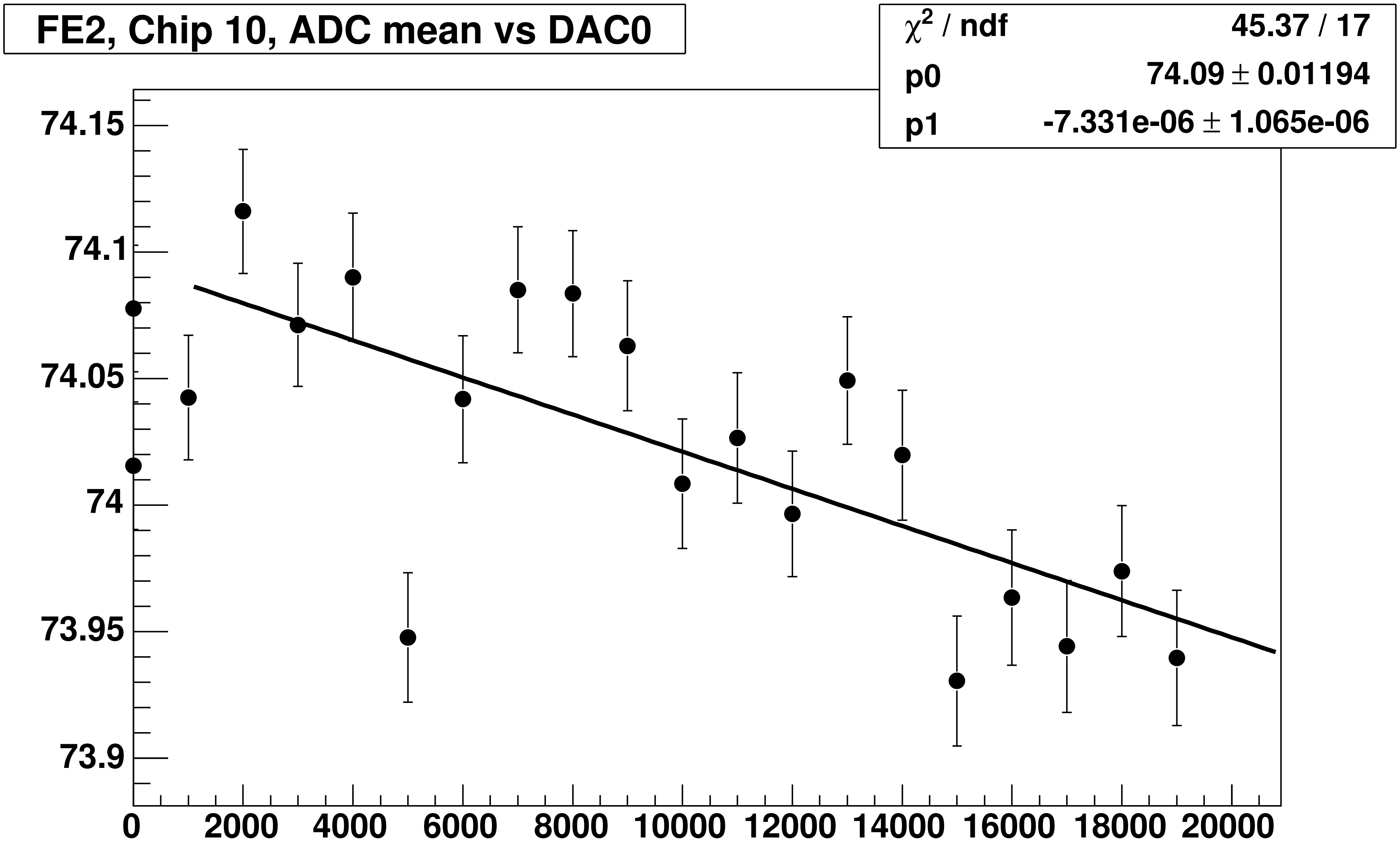

FE2, Chip 9, ADC noise vs DAC0
1.52
1.5
1.48
1.46
1.44
1.42
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

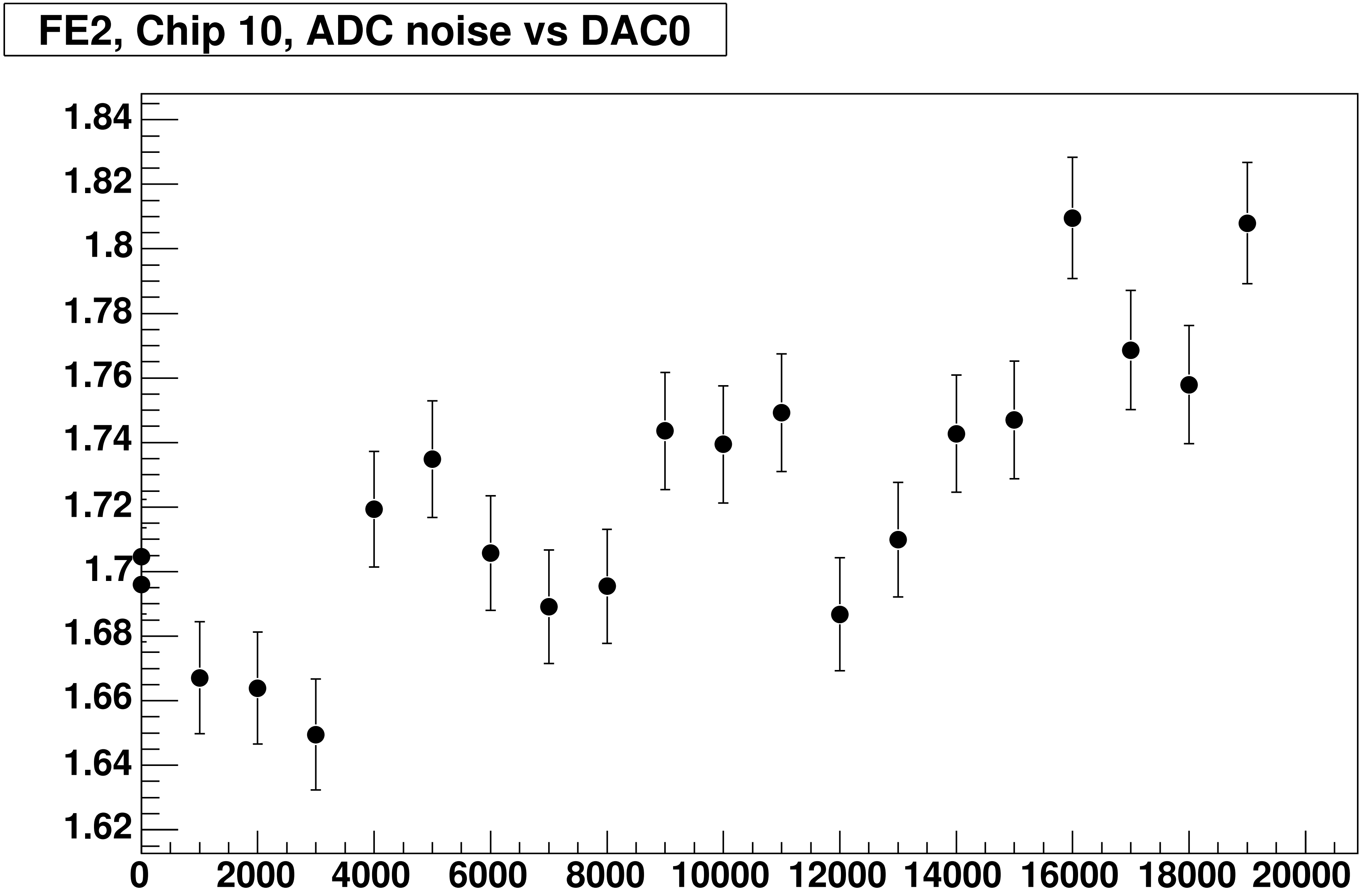

FE2, Chip 9, ADC residuals vs DAC0
0.1
0.05
0
-0.05
-0.1
-0.15
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

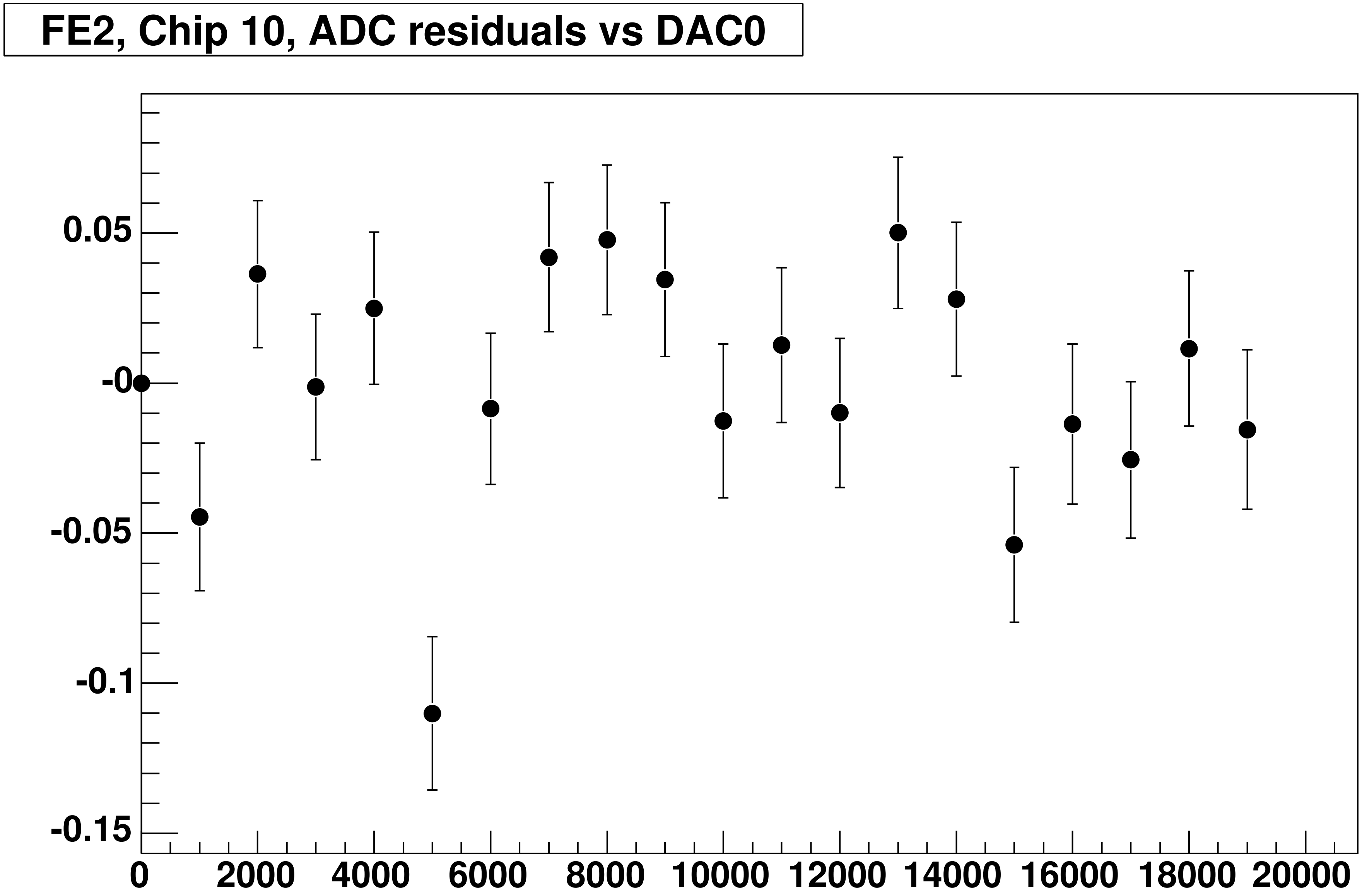

FE2, Chip 9, ADC mean vs DAC1
χ2 / ndf 3.443e+10 / 17
p0 -170.3 ± 0.01045
p1 0.6066 ± 9.472e-07
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
2000
4000
6000
8000
10000
12000
14000

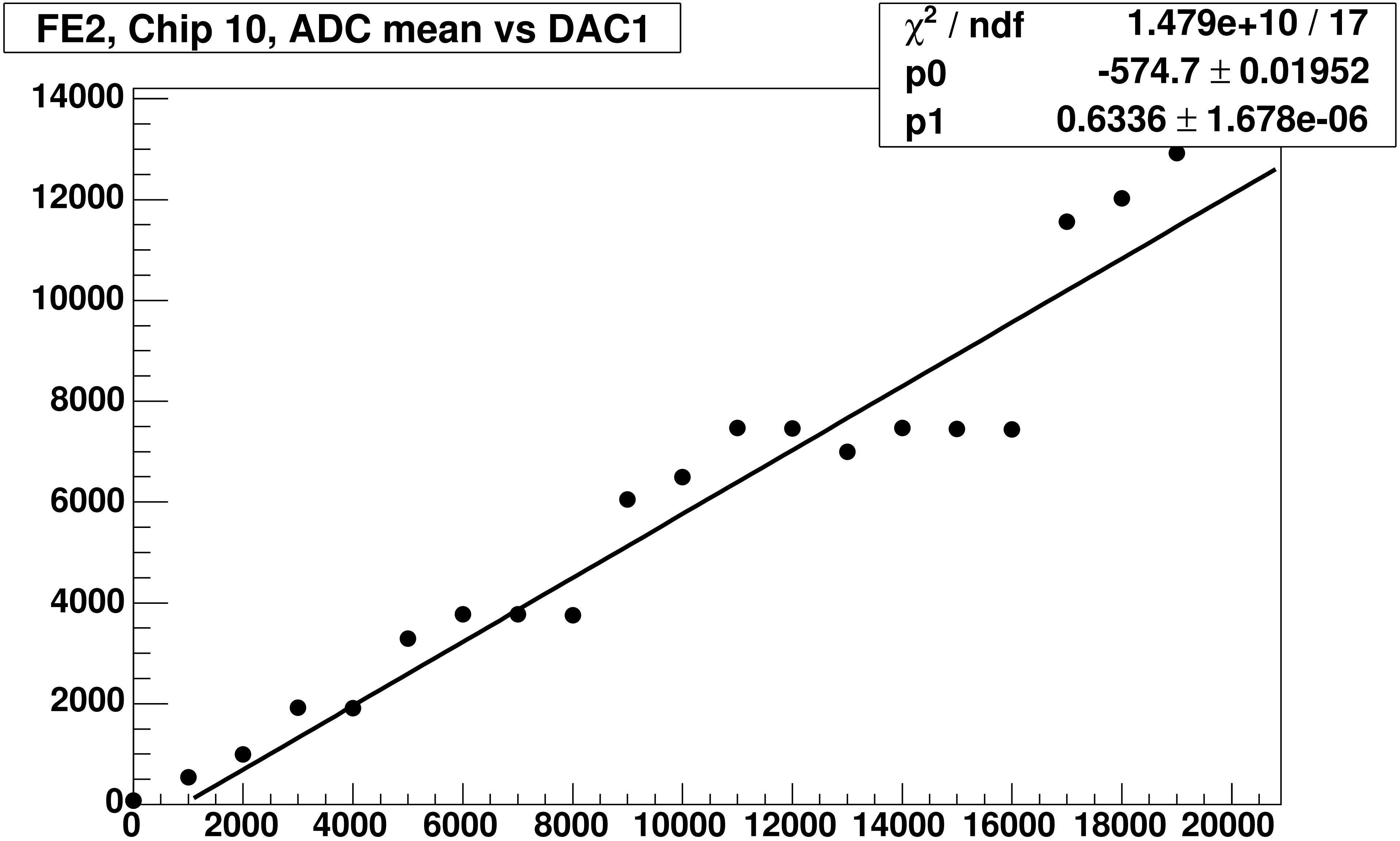

FE2, Chip 9, ADC noise vs DAC1
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

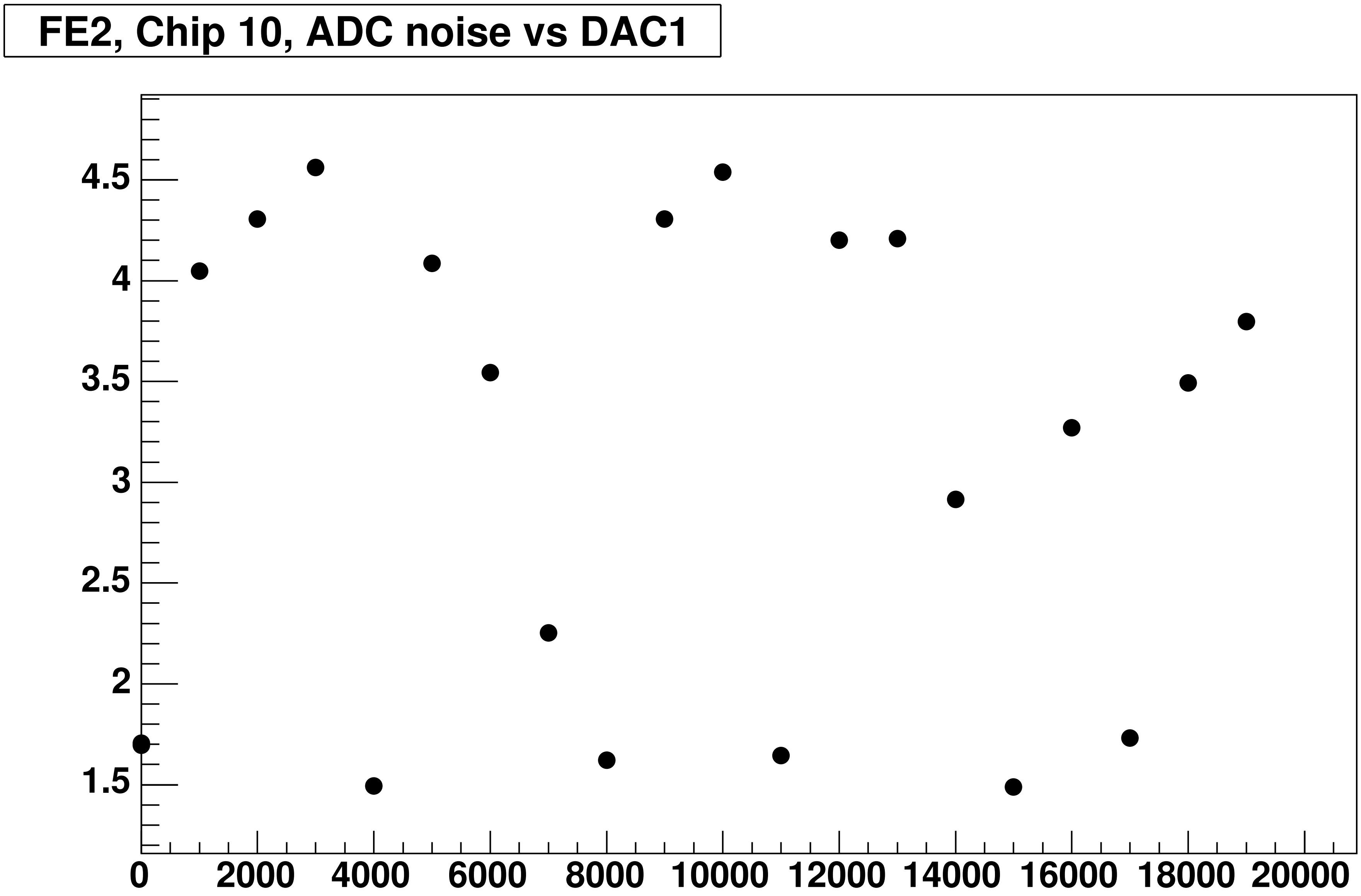

FE2, Chip 9, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

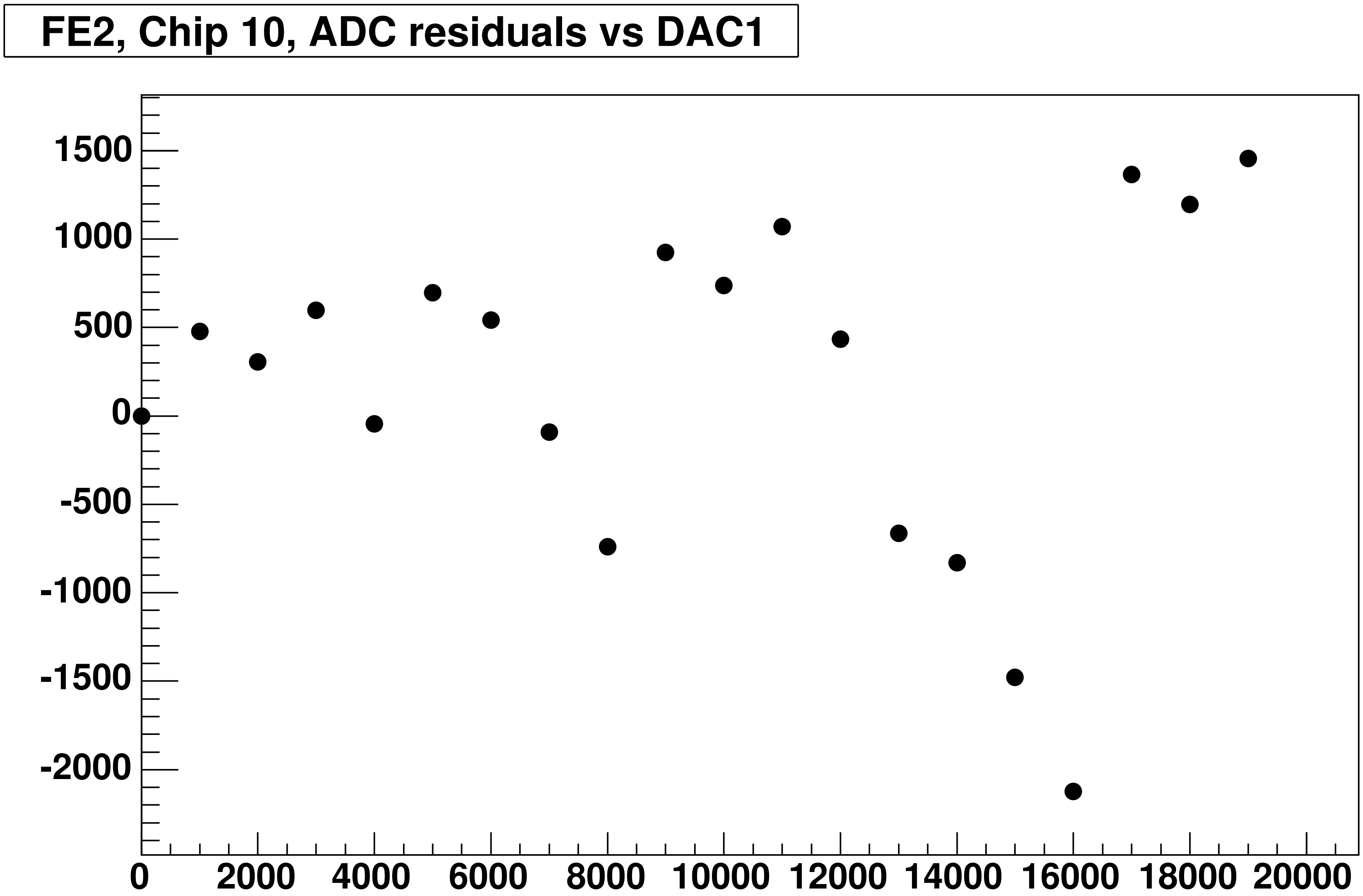

FE2, Chip 10, ADC mean vs DAC0
$\chi^2$ / ndf 45.37 / 17
p0 74.09 ± 0.01194
p1 -7.331e-06 ± 1.065e-06
74.15
74.1
74.05
74
73.95
73.9
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

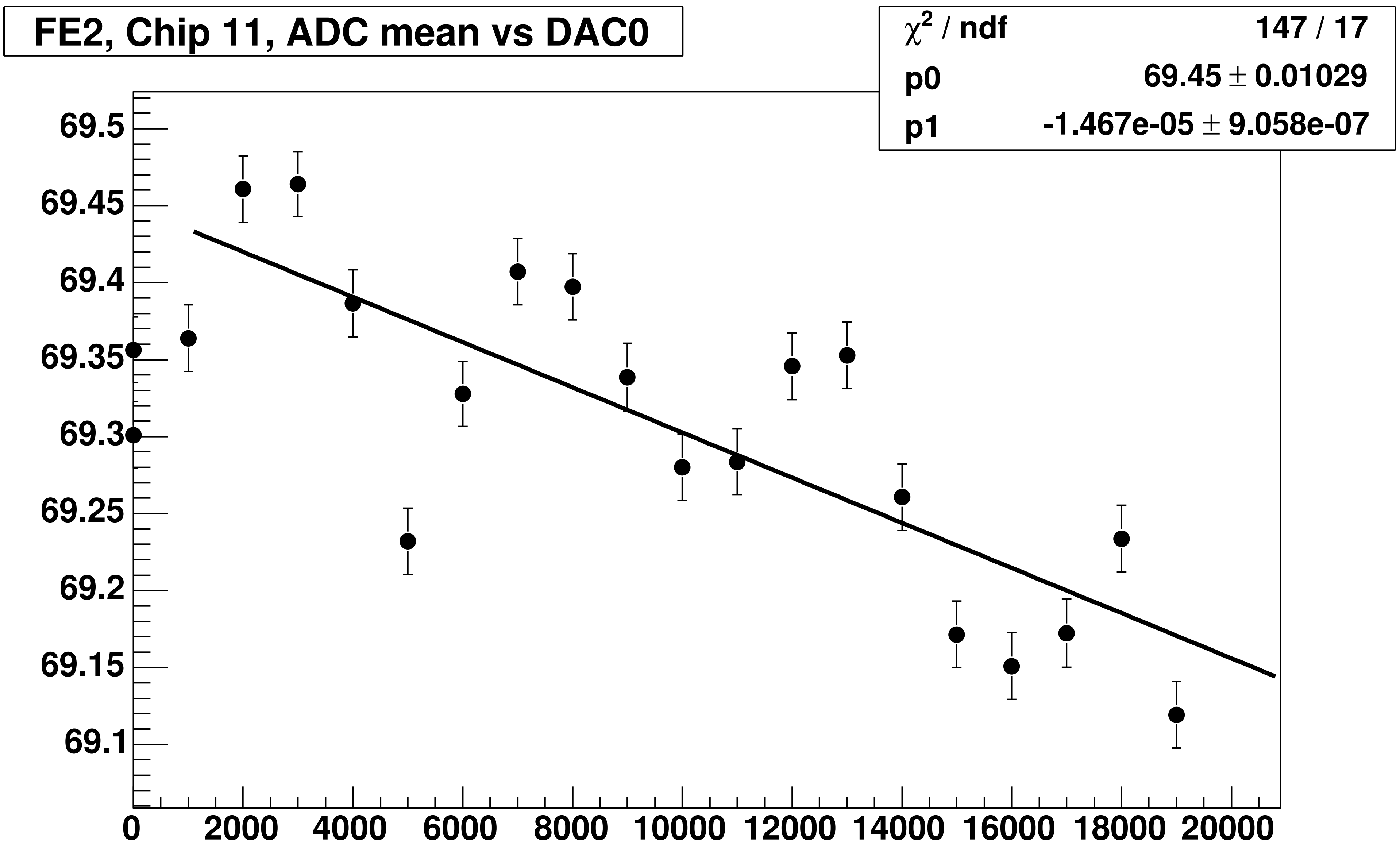

FE2, Chip 10, ADC noise vs DAC0
1.84
1.82
1.8
1.78
1.76
1.74
1.72
1.7
1.68
1.66
1.64
1.62
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

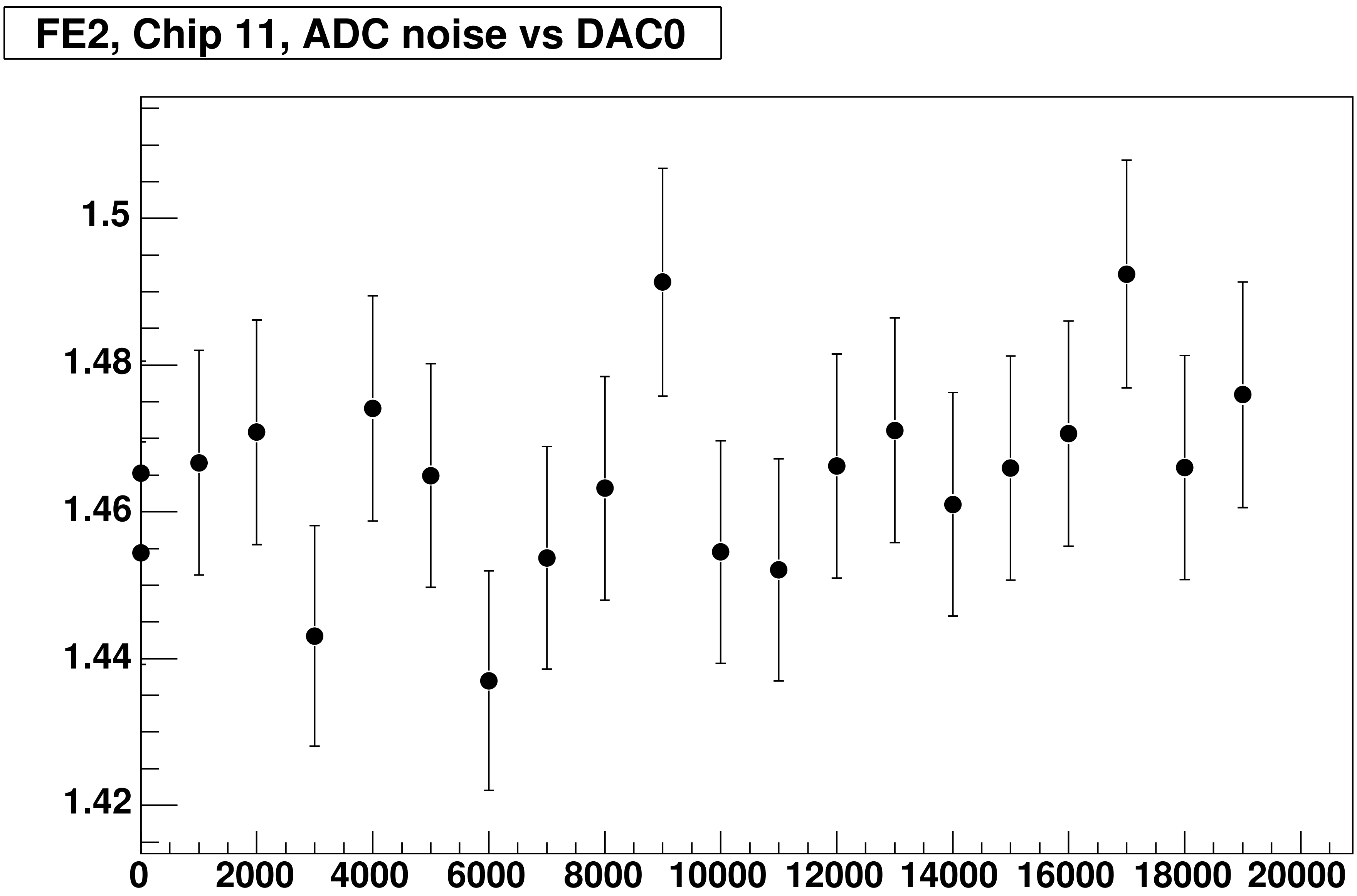

FE2, Chip 10, ADC residuals vs DAC0
0.05
-0
-0.05
-0.1
-0.15
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

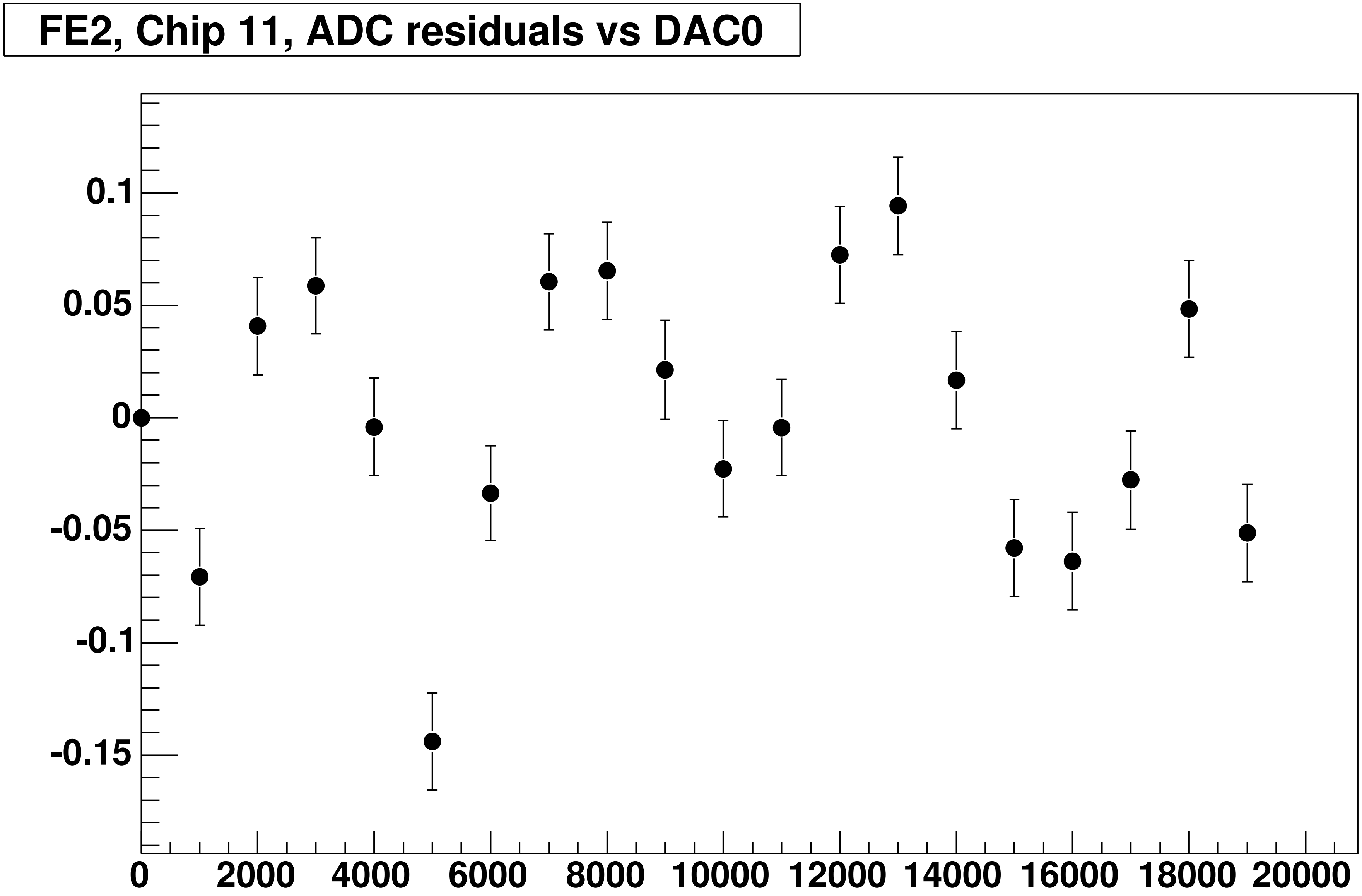

FE2, Chip 10, ADC mean vs DAC1
χ2 / ndf 1.479e+10 / 17
p0 -574.7 ± 0.01952
p1 0.6336 ± 1.678e-06
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

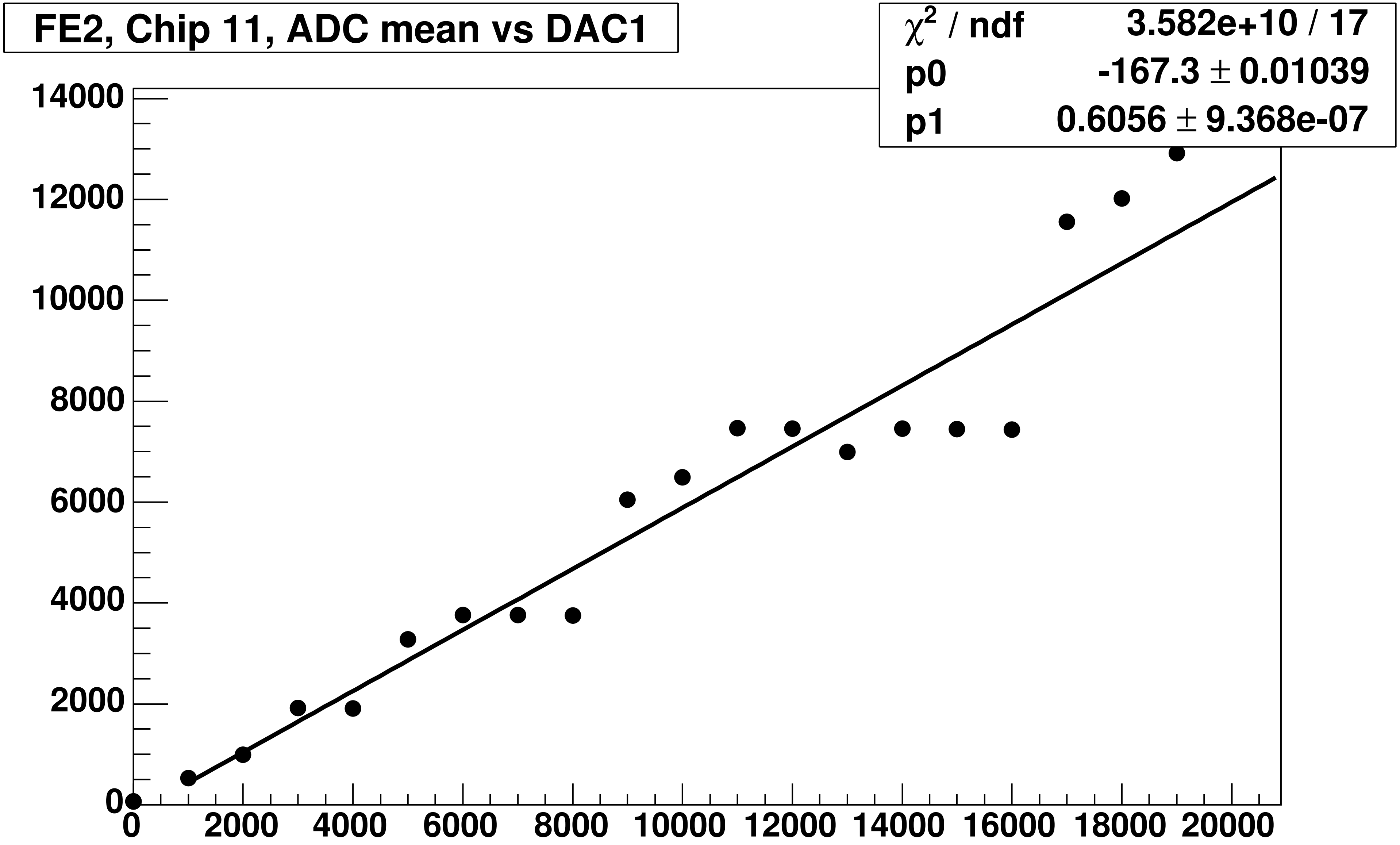

FE2, Chip 10, ADC noise vs DAC1
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE2, Chip 10, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

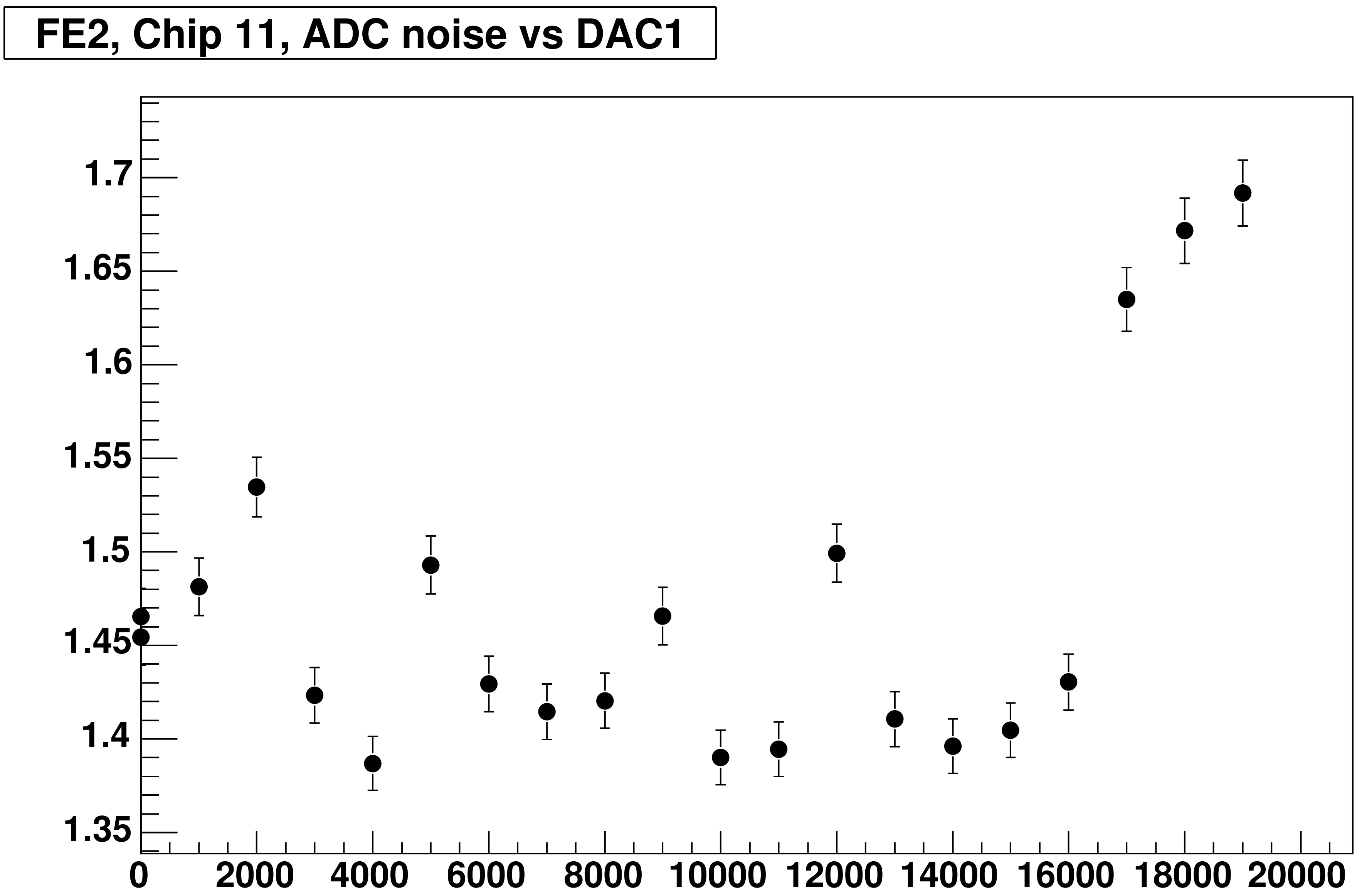

FE2, Chip 11, ADC mean vs DAC0
χ2 / ndf 147 / 17
p0 69.45 ± 0.01029
p1 -1.467e-05 ± 9.058e-07
69.5
69.45
69.4
69.35
69.3
69.25
69.2
69.15
69.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

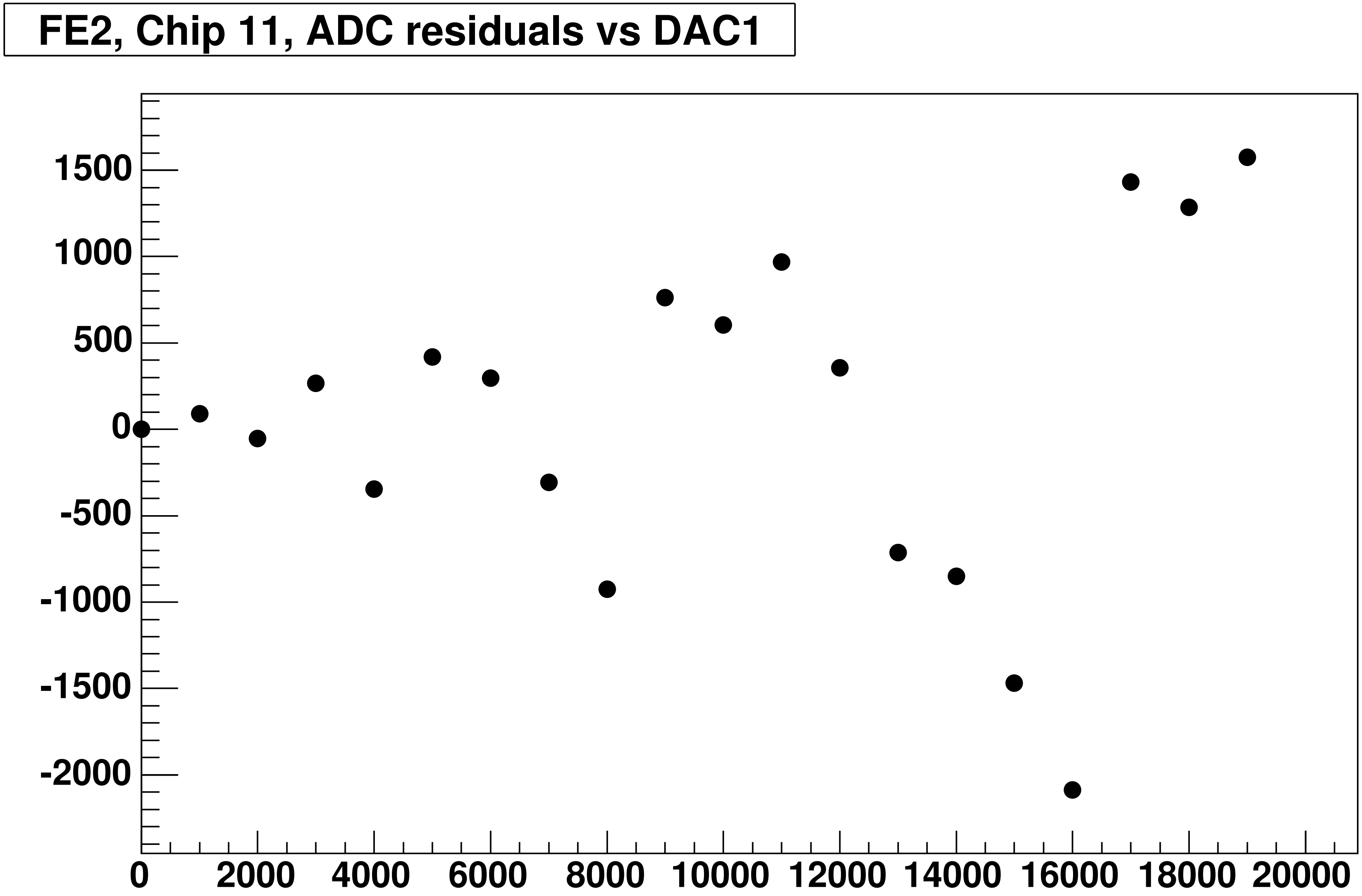

FE2, Chip 11, ADC noise vs DAC0
1.5
1.48
1.46
1.44
1.42
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

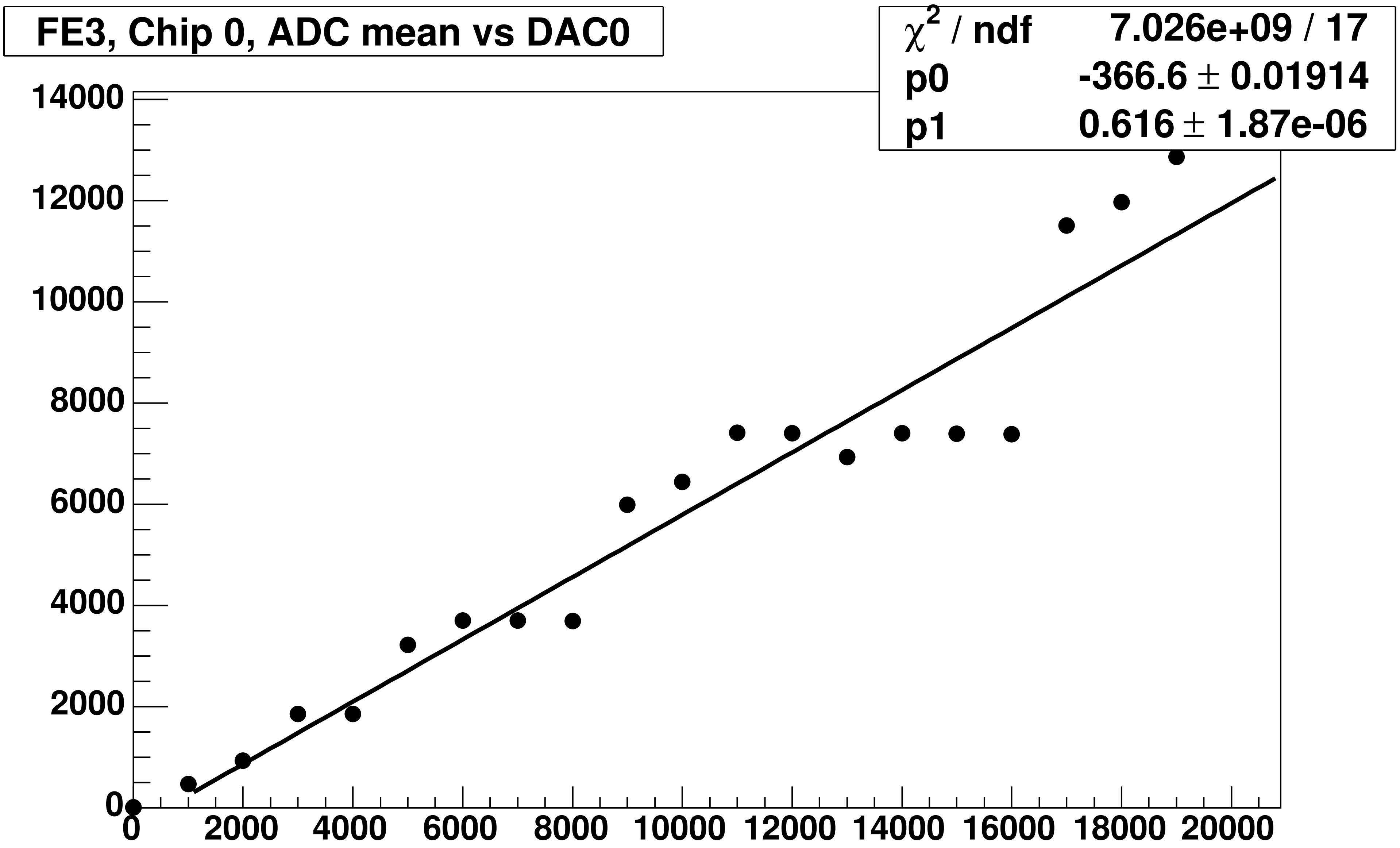

FE2, Chip 11, ADC residuals vs DAC0
0.1
0.05
0
-0.05
-0.1
-0.15
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



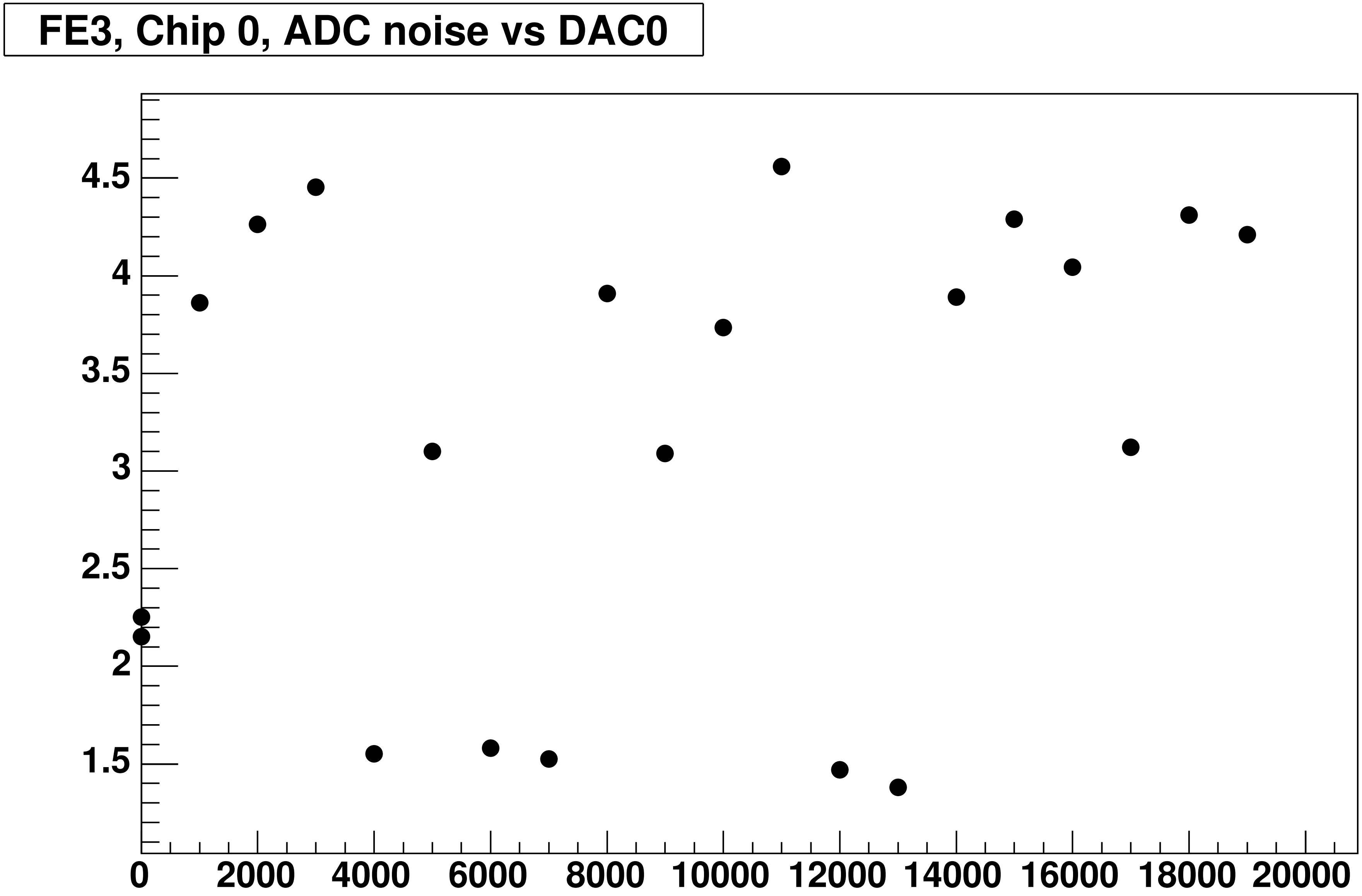
FE2, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 3.582e+10 / 17
p0 -167.3 ± 0.01039
p1 0.6056 ± 9.368e-07
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
2000
4000
6000
8000
10000
12000
14000


FE2, Chip 11, ADC noise vs DAC1
1.35
1.4
1.45
1.5
1.55
1.6
1.65
1.7
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

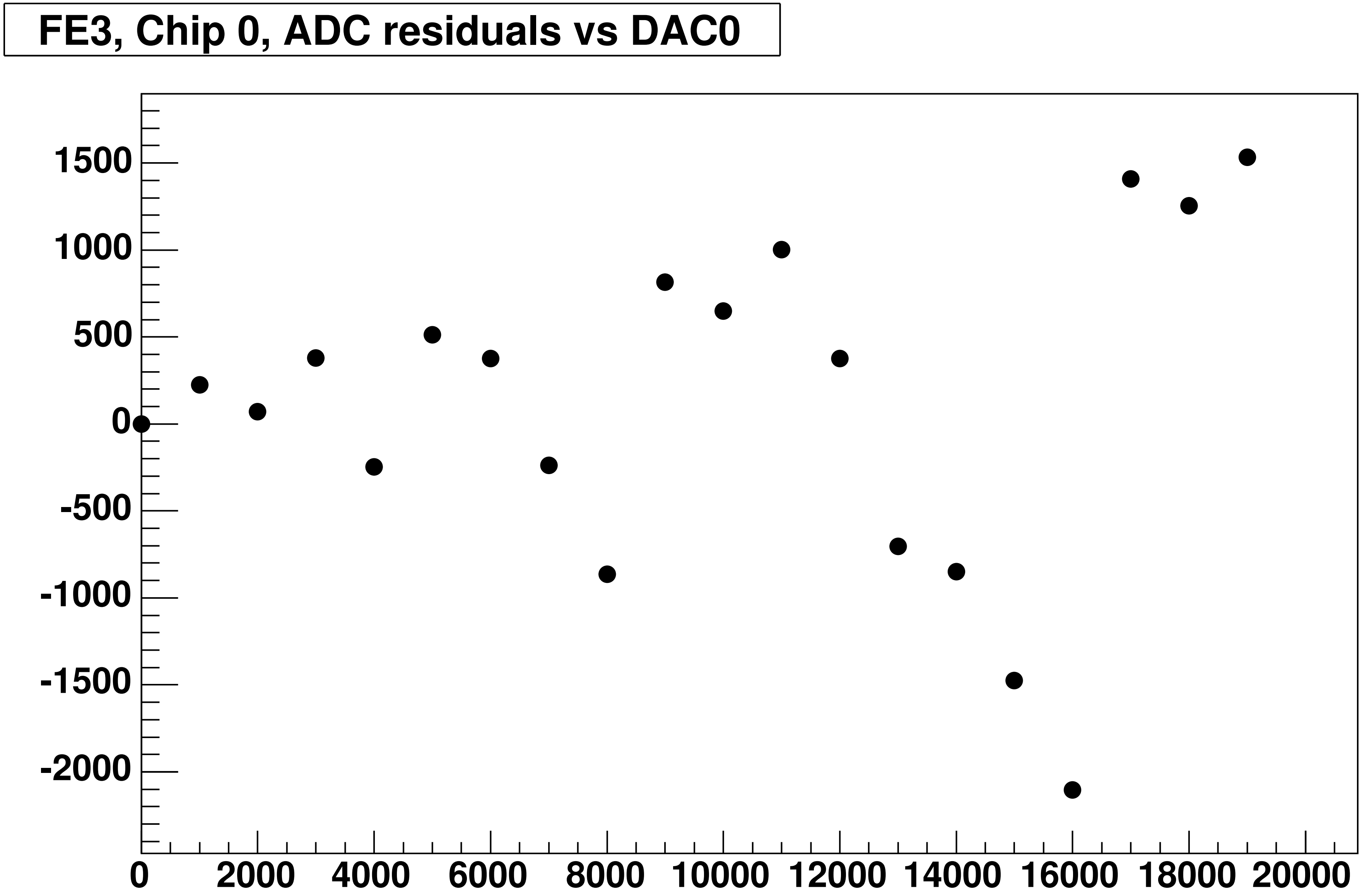

FE2, Chip 11, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

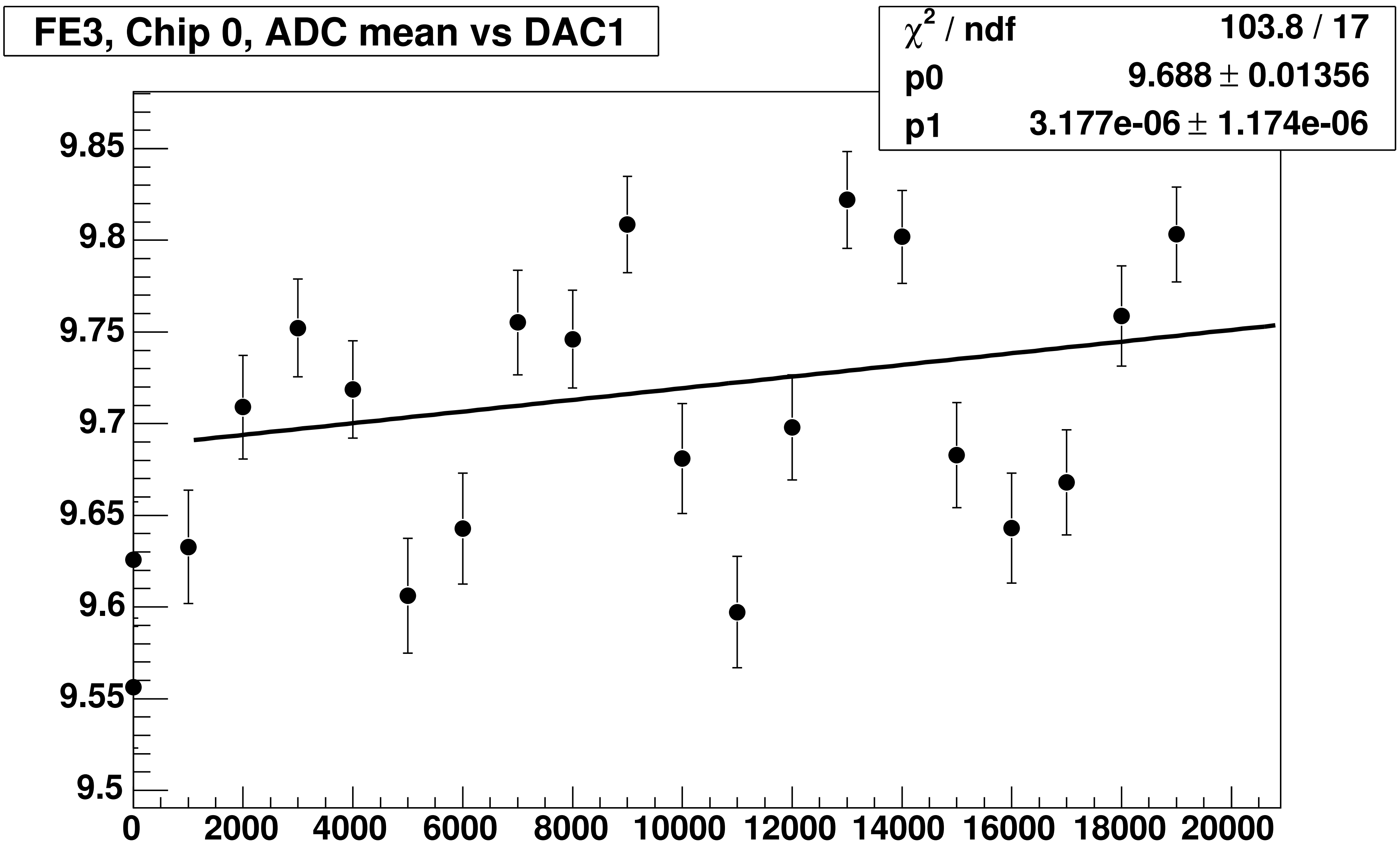


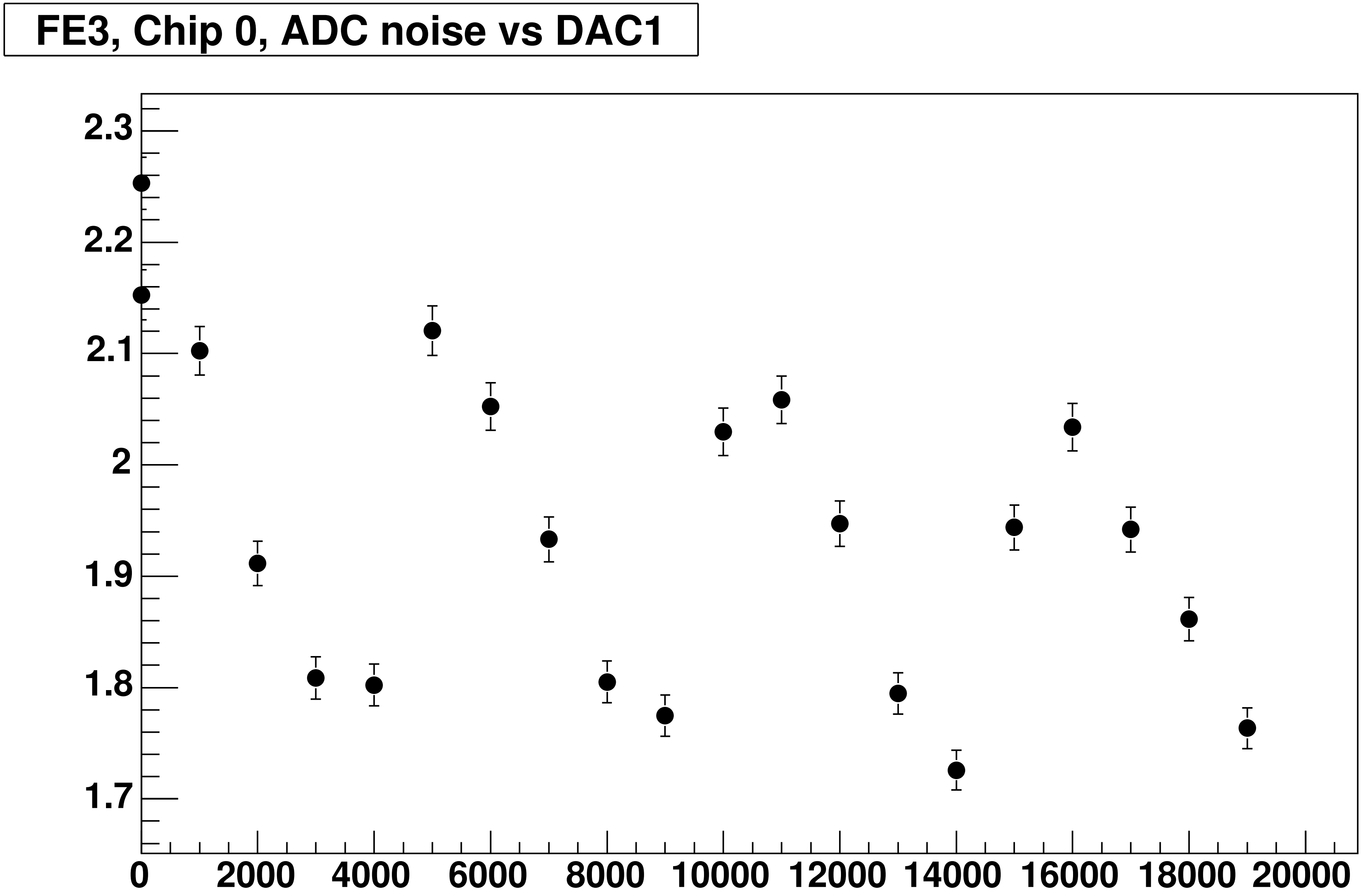
FE3, Chip 0, ADC mean vs DAC0
χ² / ndf 7.026e+09 / 17
p0 -366.6 ± 0.01914
p1 0.616 ± 1.87e-06
0
2000
4000
6000
8000
10000
12000
14000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

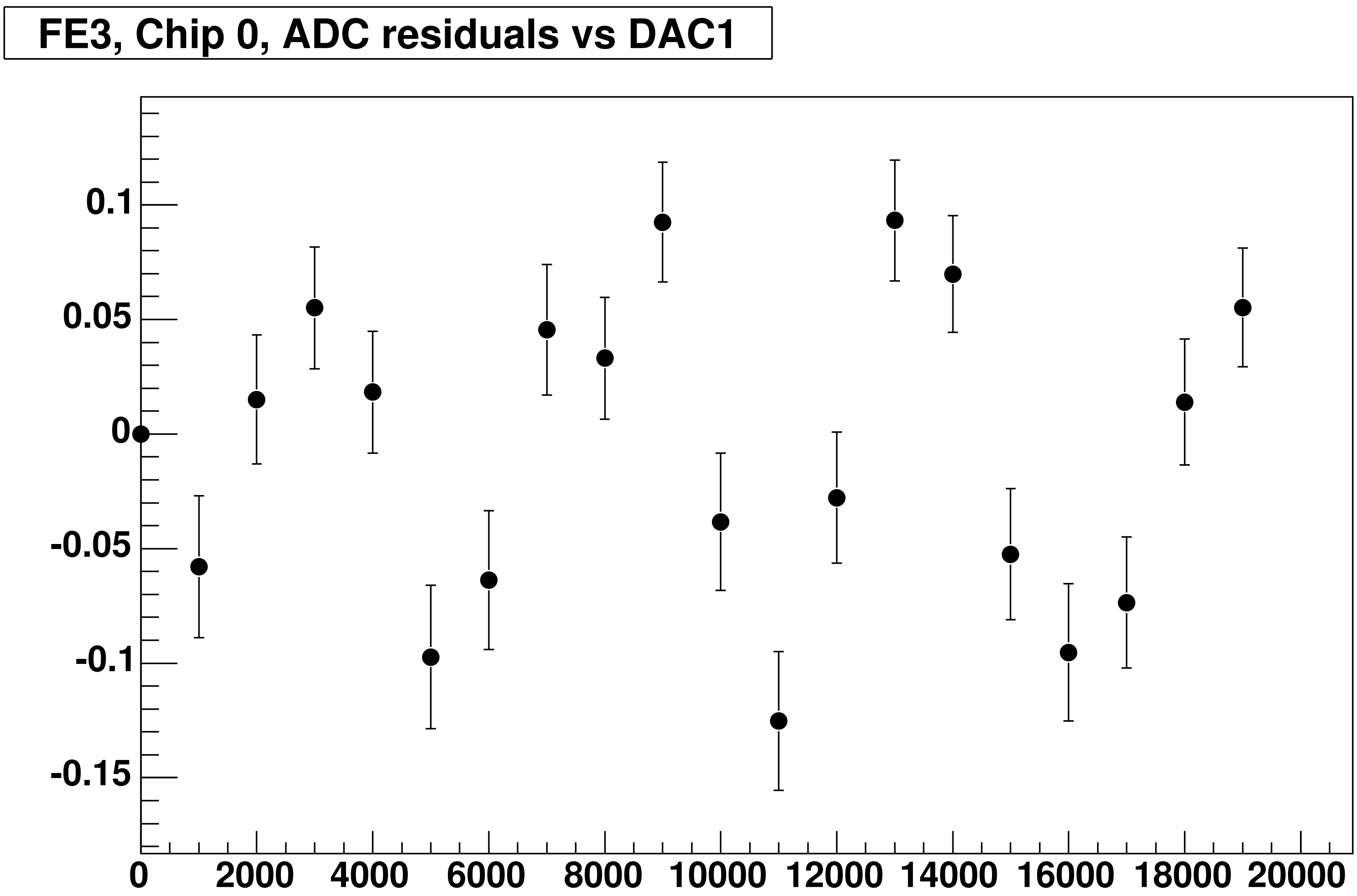


FE3, Chip 0, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

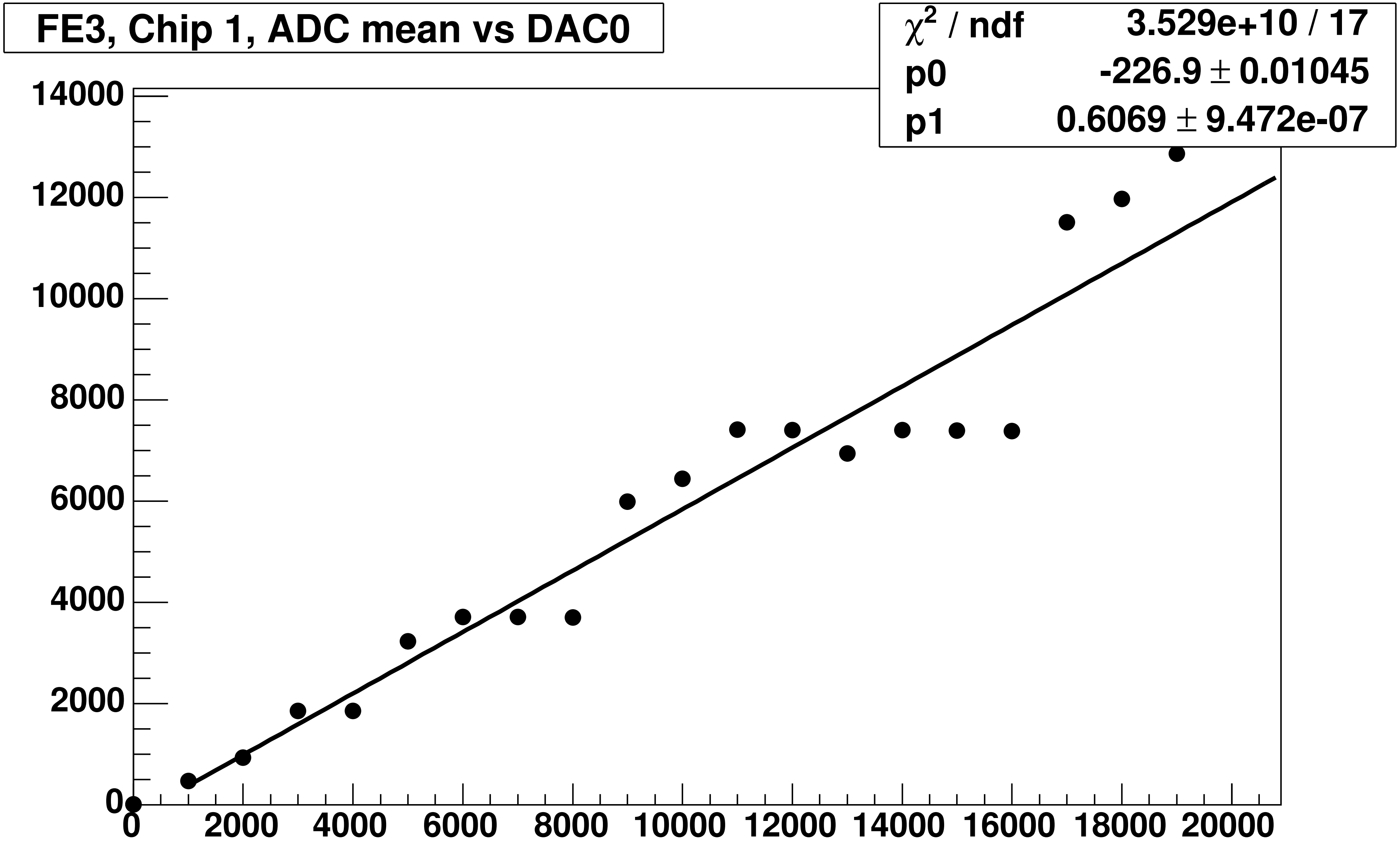

FE3, Chip 0, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

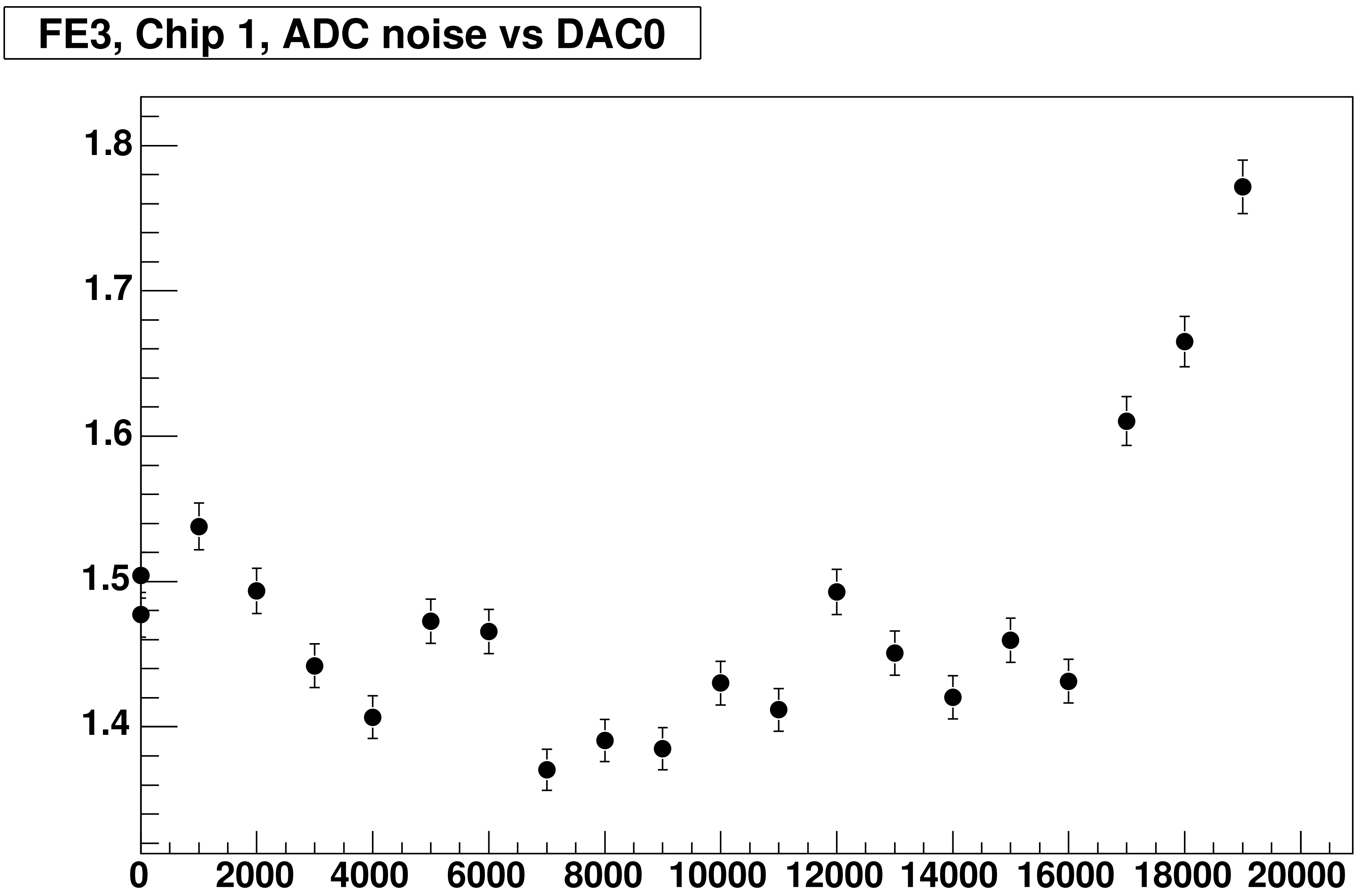

FE3, Chip 0, ADC mean vs DAC1
$\chi^2$ / ndf 103.8 / 17
p0 9.688 ± 0.01356
p1 3.177e-06 ± 1.174e-06
9.85
9.8
9.75
9.7
9.65
9.6
9.55
9.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

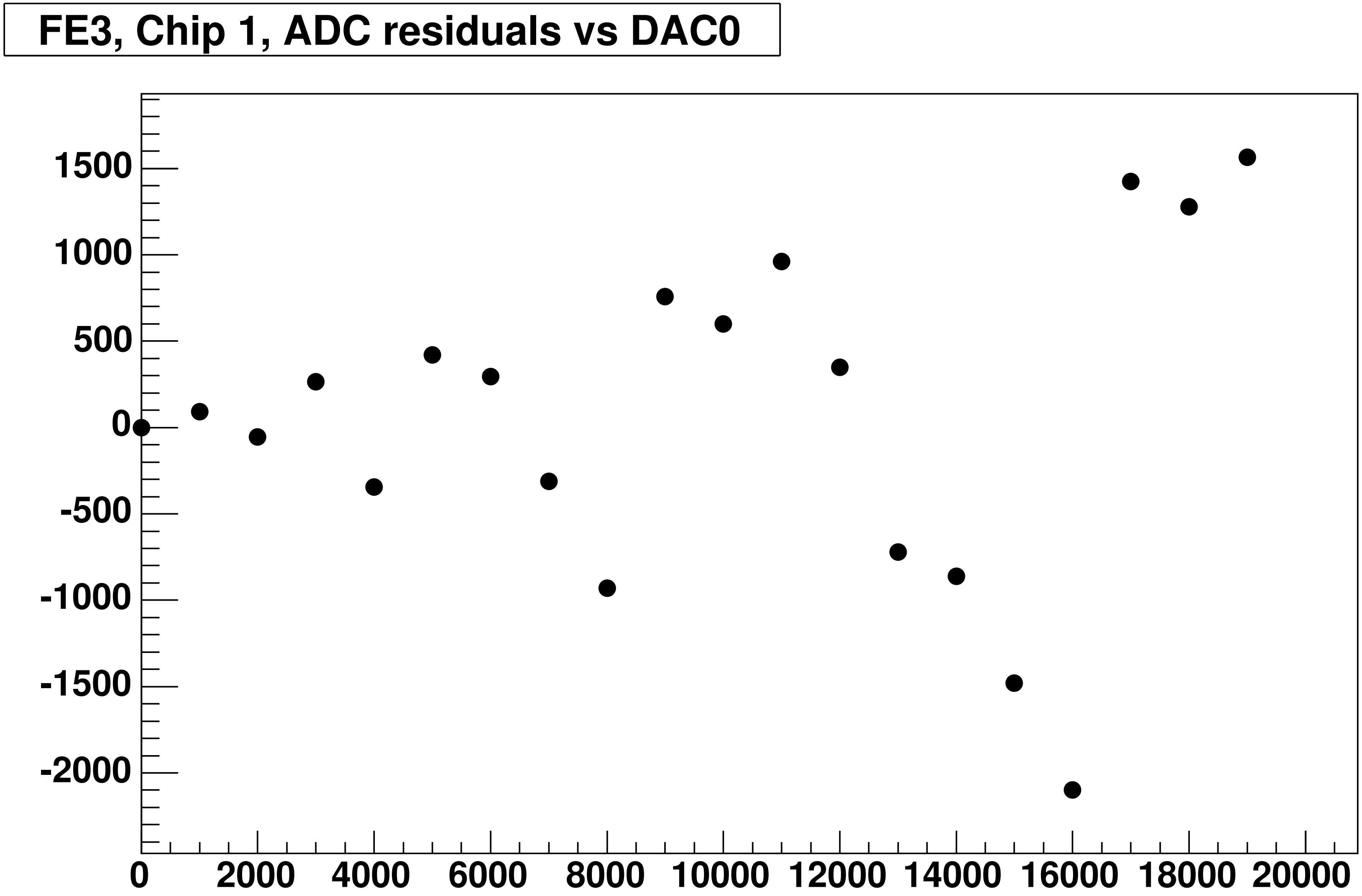

FE3, Chip 0, ADC noise vs DAC1
2.3
2.2
2.1
2
1.9
1.8
1.7
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



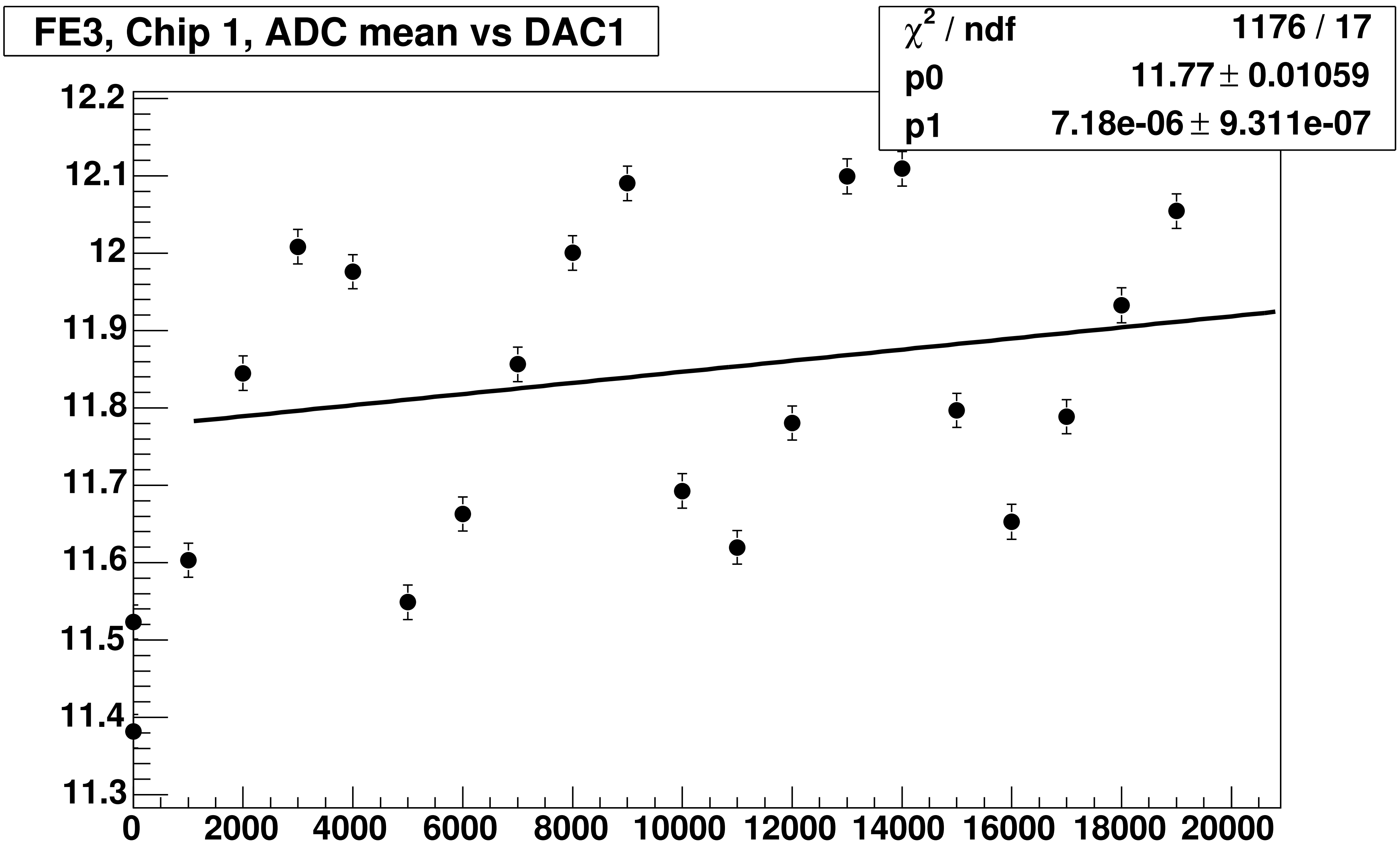
FE3, Chip 0, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
-0.15
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE3, Chip 1, ADC mean vs DAC0
$\chi^2$ / ndf 3.529e+10 / 17
p0 -226.9 ± 0.01045
p1 0.6069 ± 9.472e-07
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

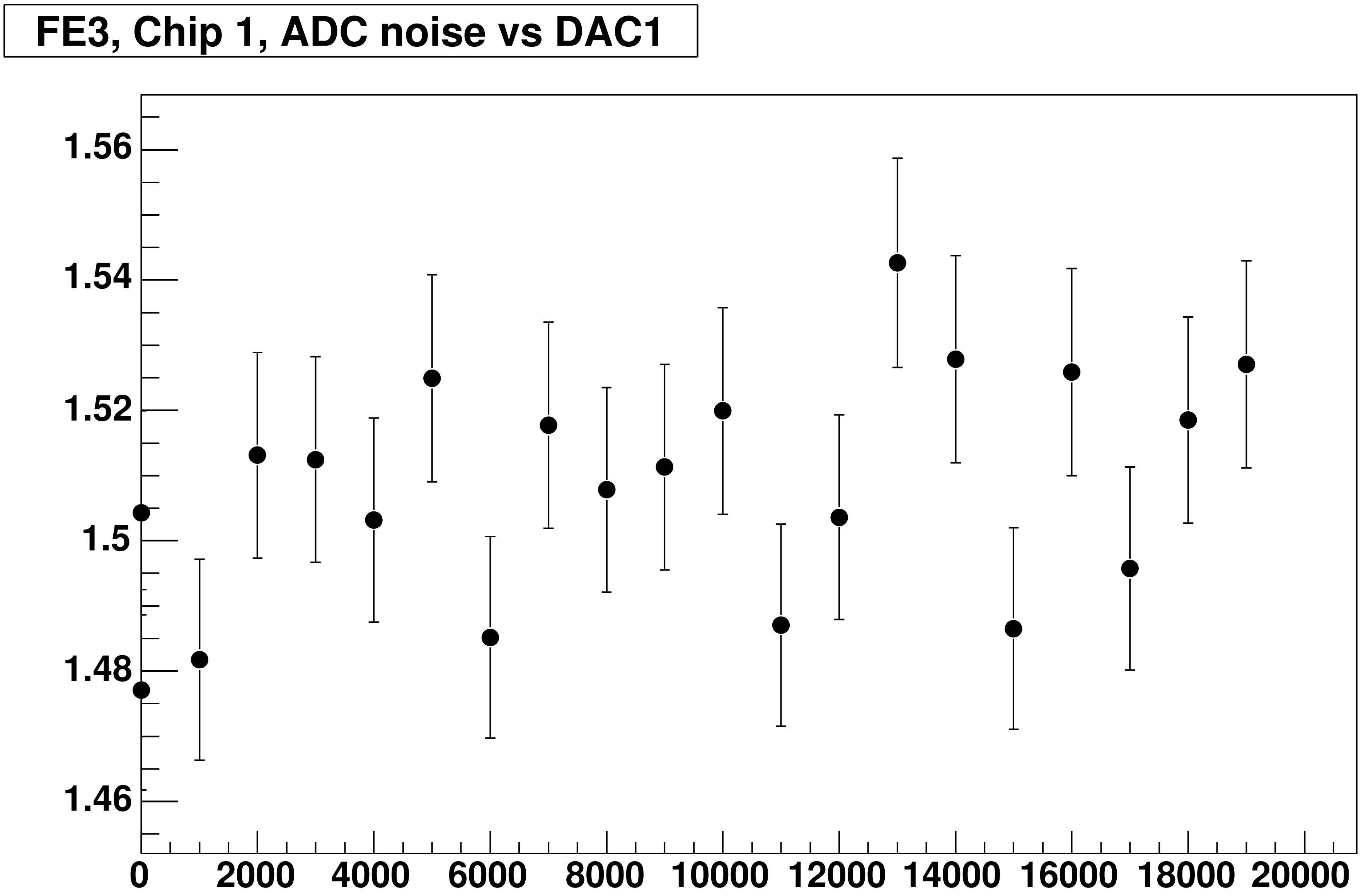

FE3, Chip 1, ADC noise vs DAC0
1.8
1.7
1.6
1.5
1.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

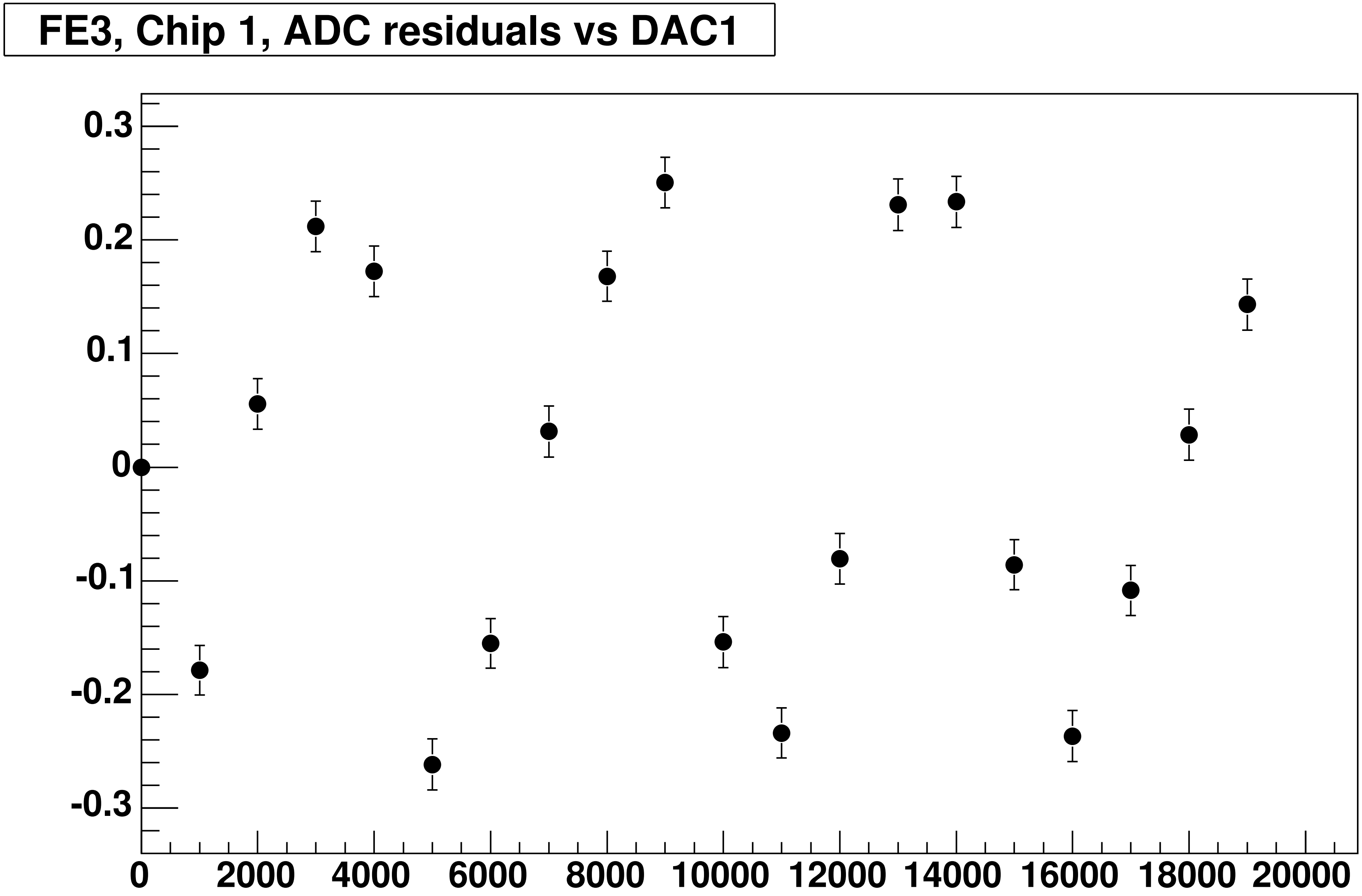


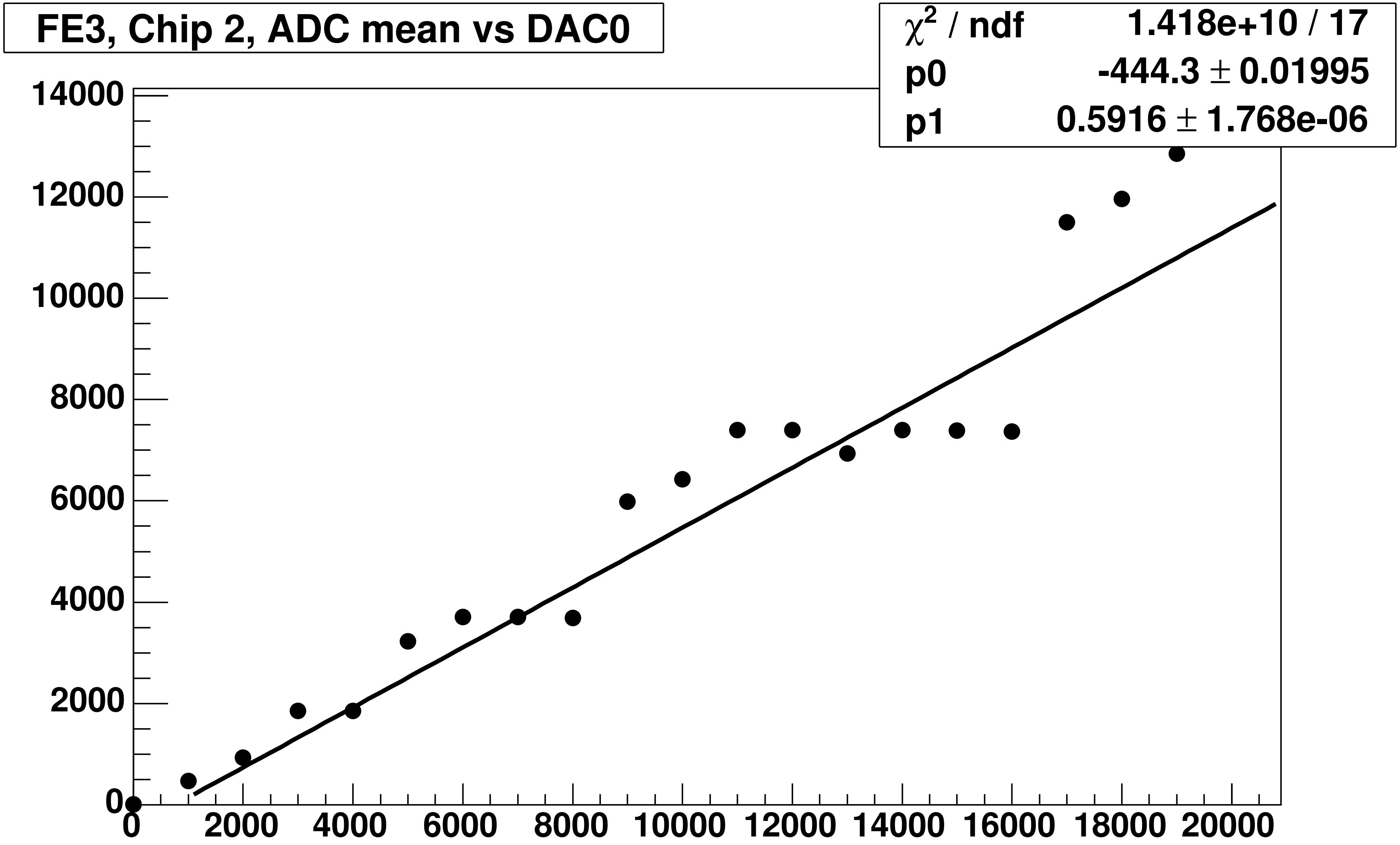
FE3, Chip 1, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

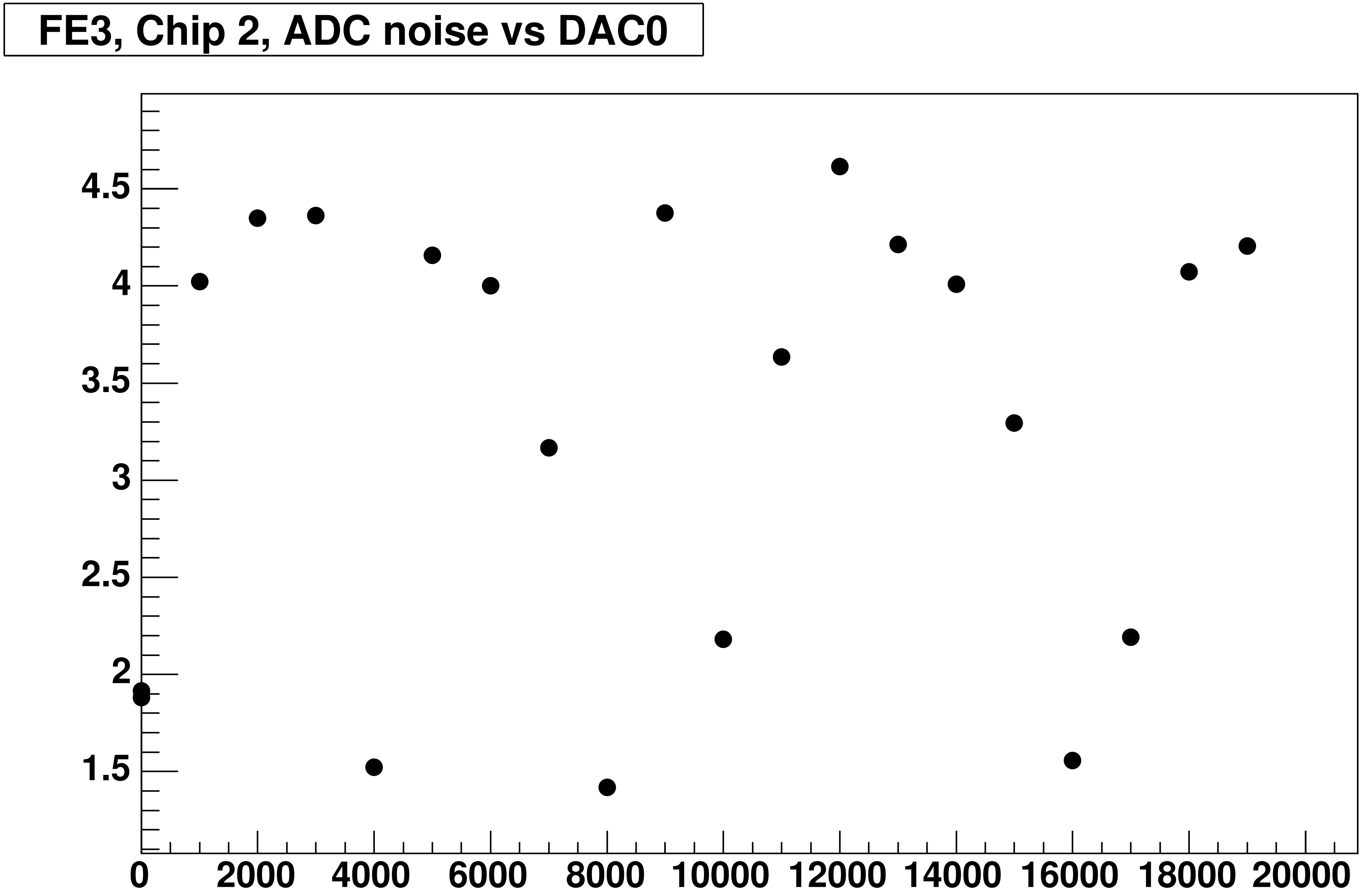


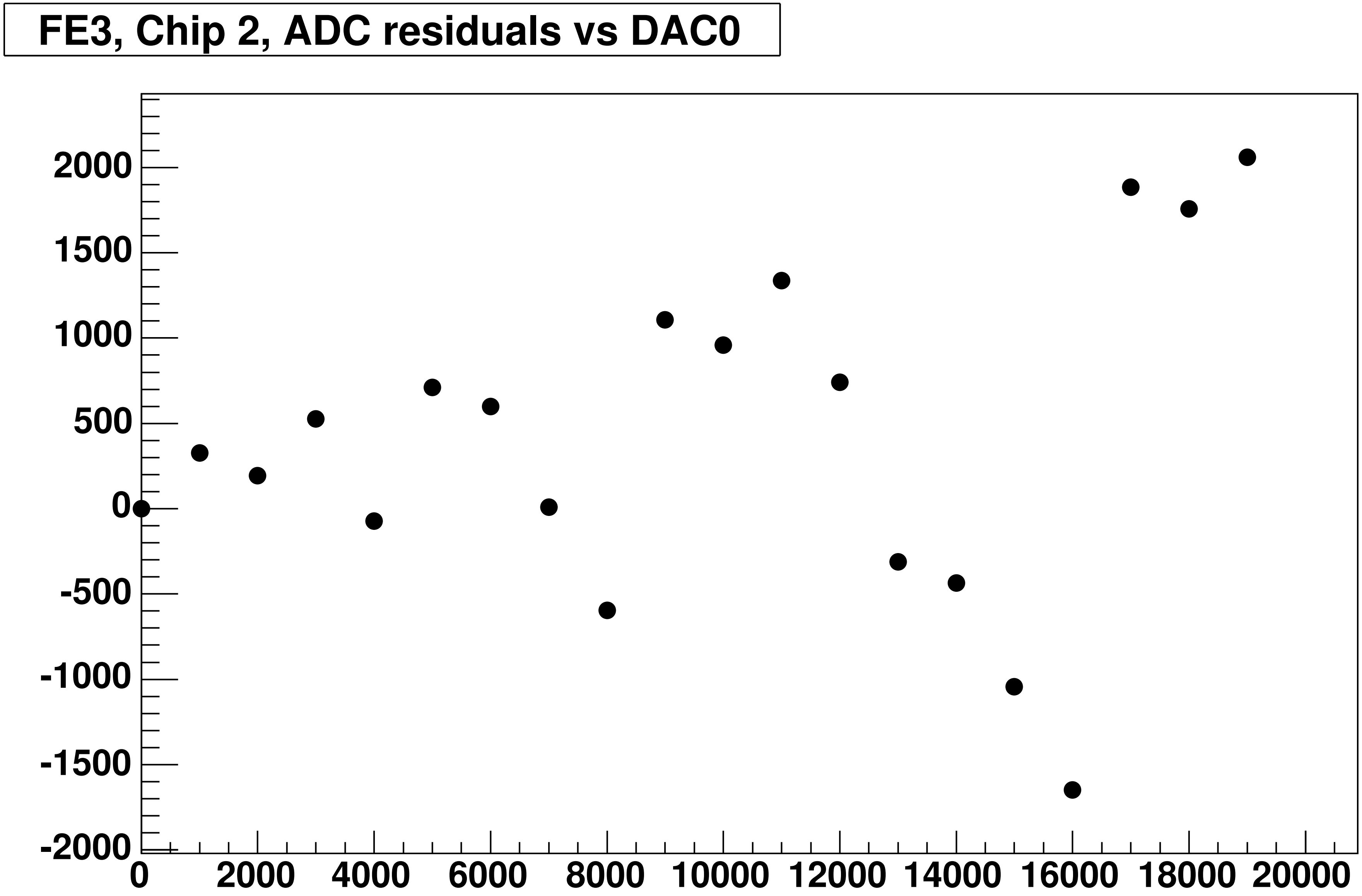
FE3, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 1176 / 17
p0 11.77 ± 0.01059
p1 7.18e-06 ± 9.311e-07
12.2
12.1
12
11.9
11.8
11.7
11.6
11.5
11.4
11.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

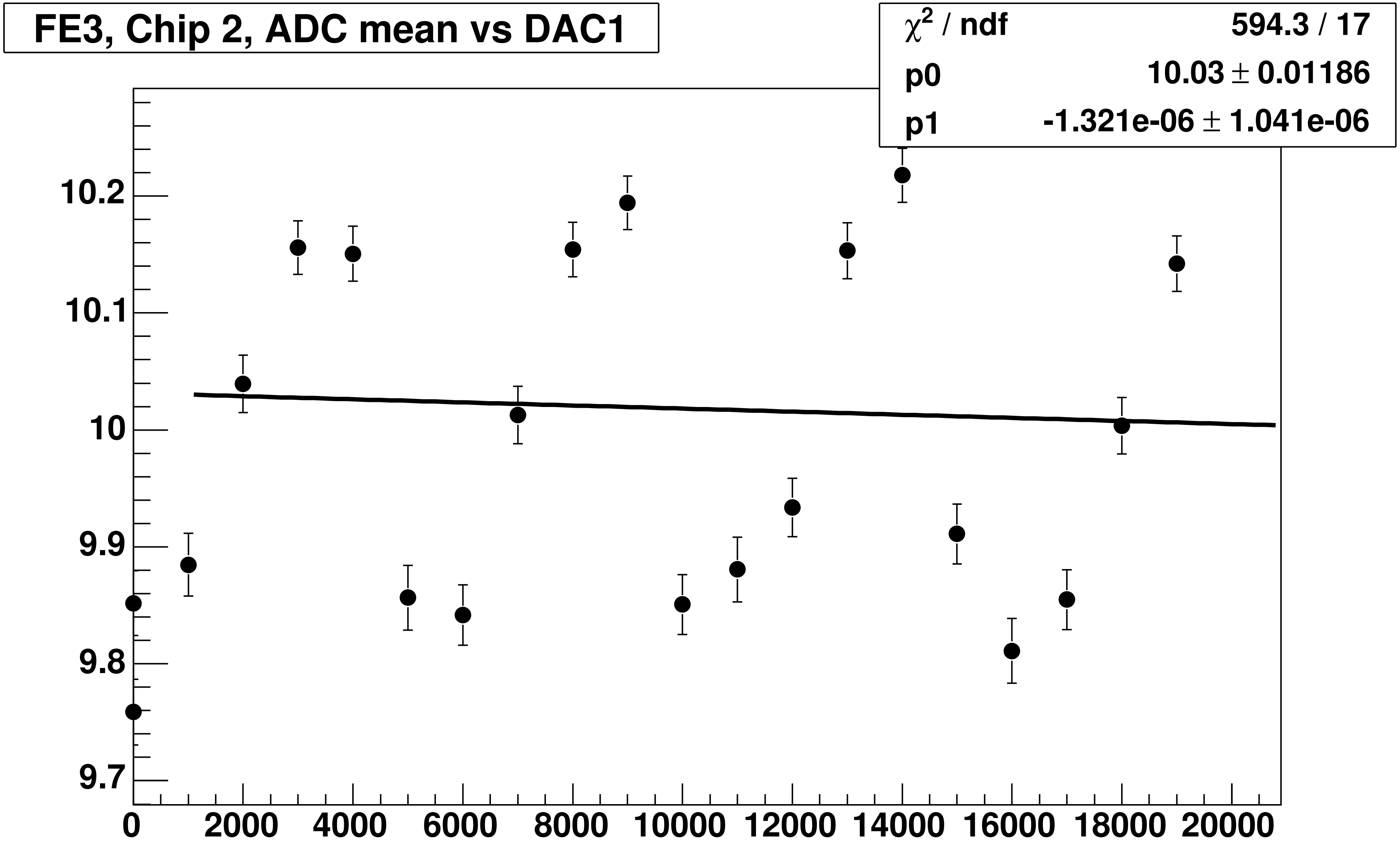

FE3, Chip 1, ADC noise vs DAC1
1.56
1.54
1.52
1.5
1.48
1.46
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

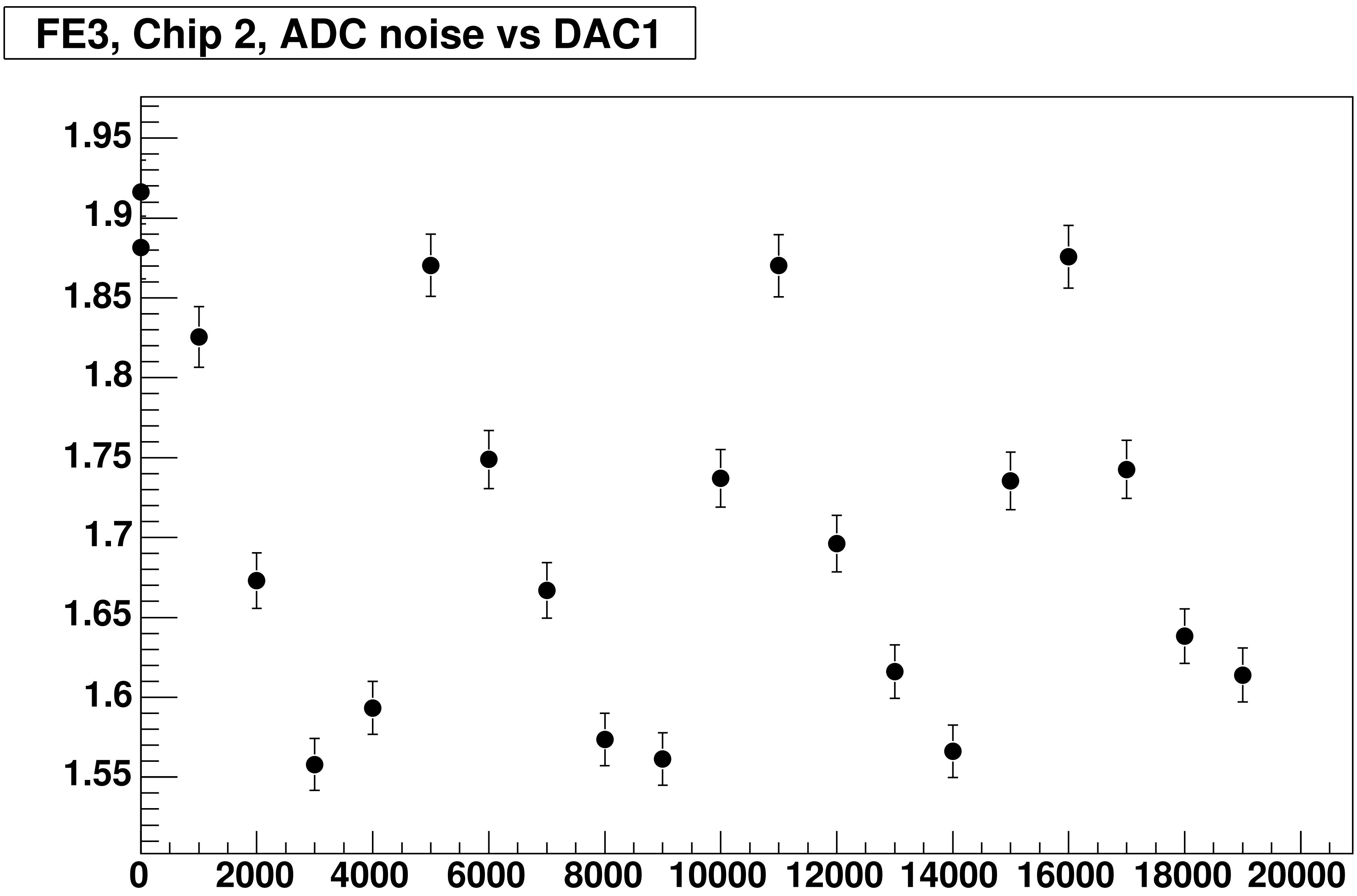

FE3, Chip 1, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE3, Chip 2, ADC mean vs DAC0
$\chi^2$ / ndf 1.418e+10 / 17
p0 -444.3 ± 0.01995
p1 0.5916 ± 1.768e-06
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

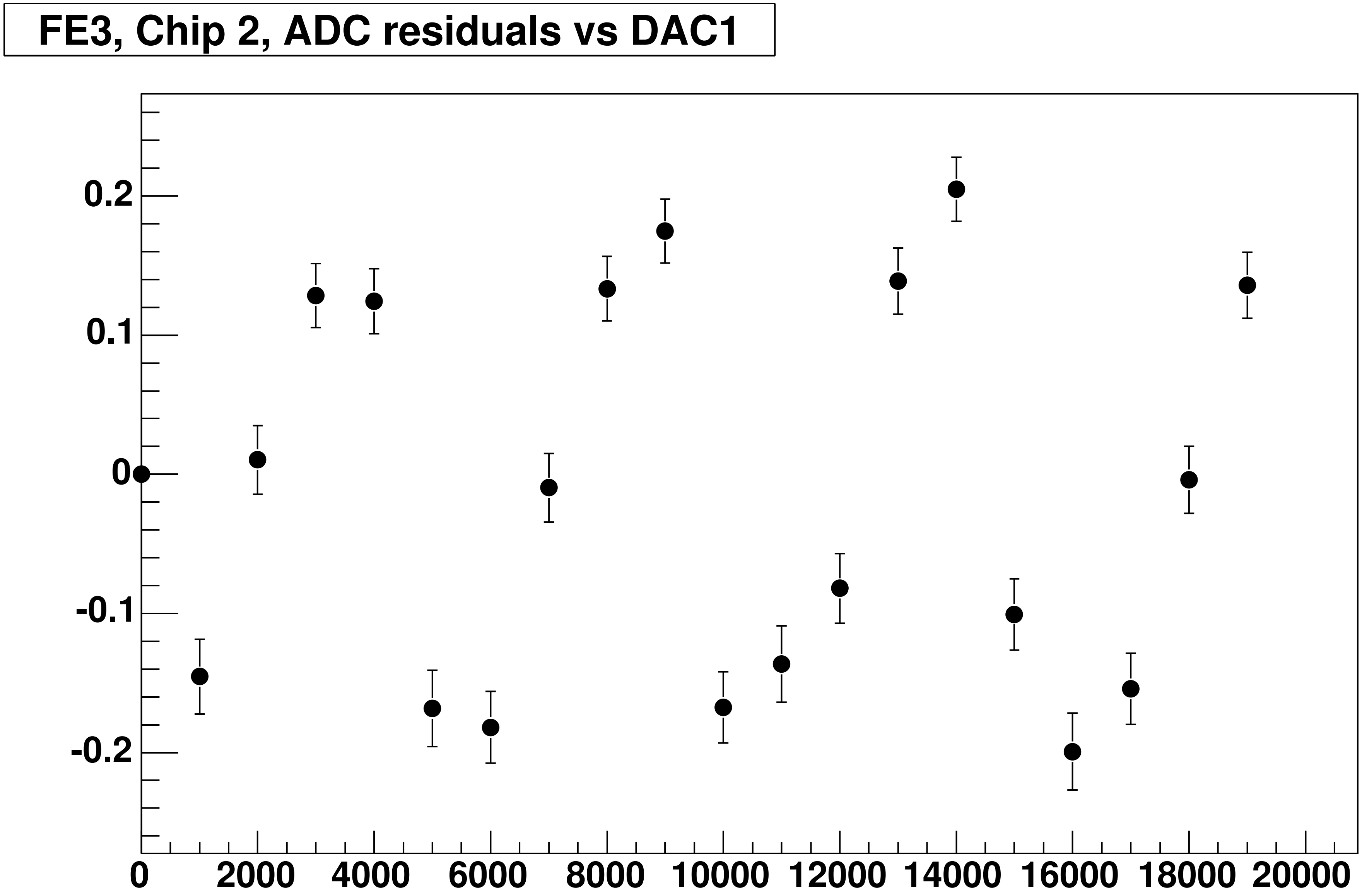

FE3, Chip 2, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

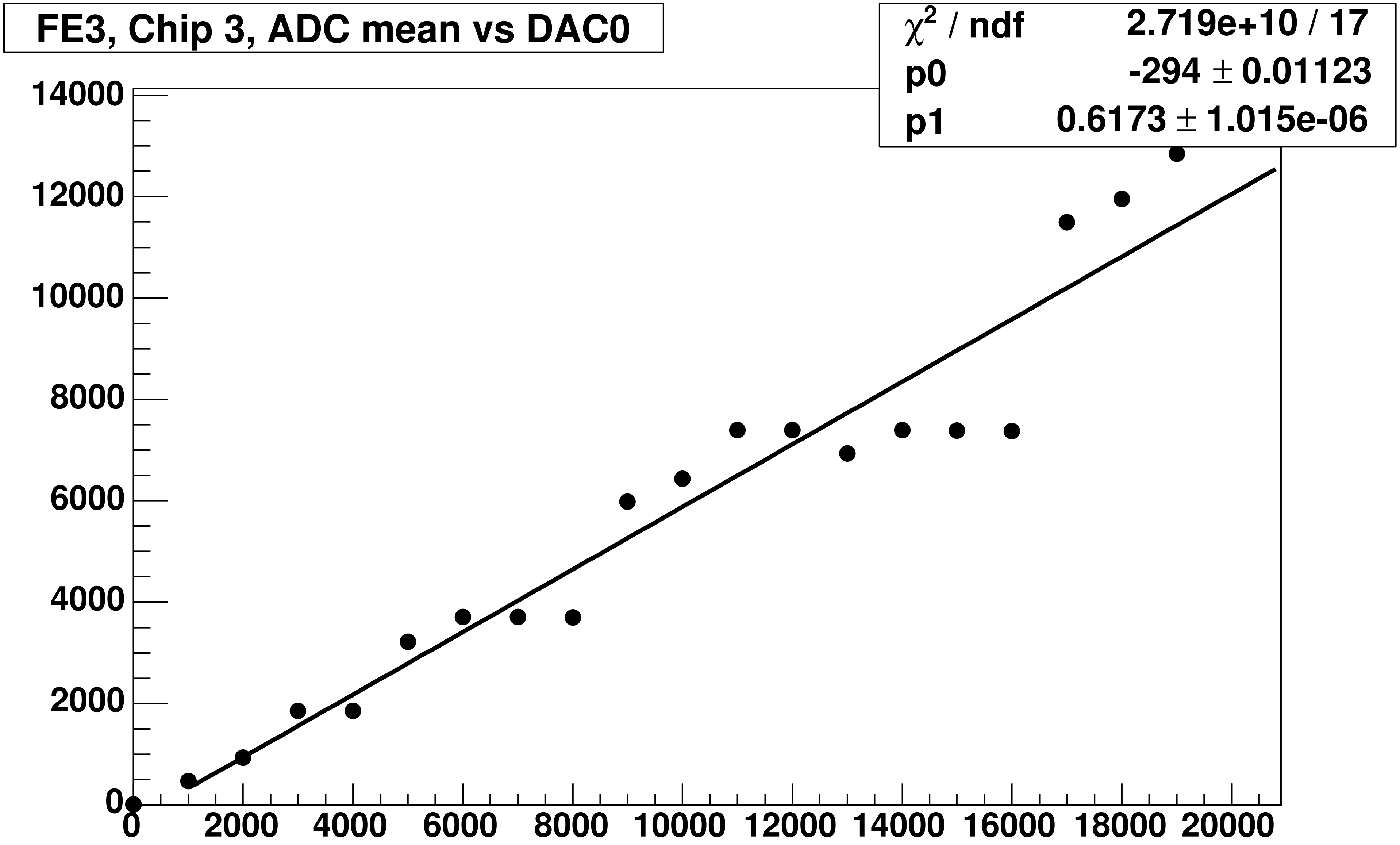

FE3, Chip 2, ADC residuals vs DAC0
2000
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE3, Chip 2, ADC mean vs DAC1
χ2 / ndf 594.3 / 17
p0 10.03 ± 0.01186
p1 -1.321e-06 ± 1.041e-06
10.2
10.1
10
9.9
9.8
9.7
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

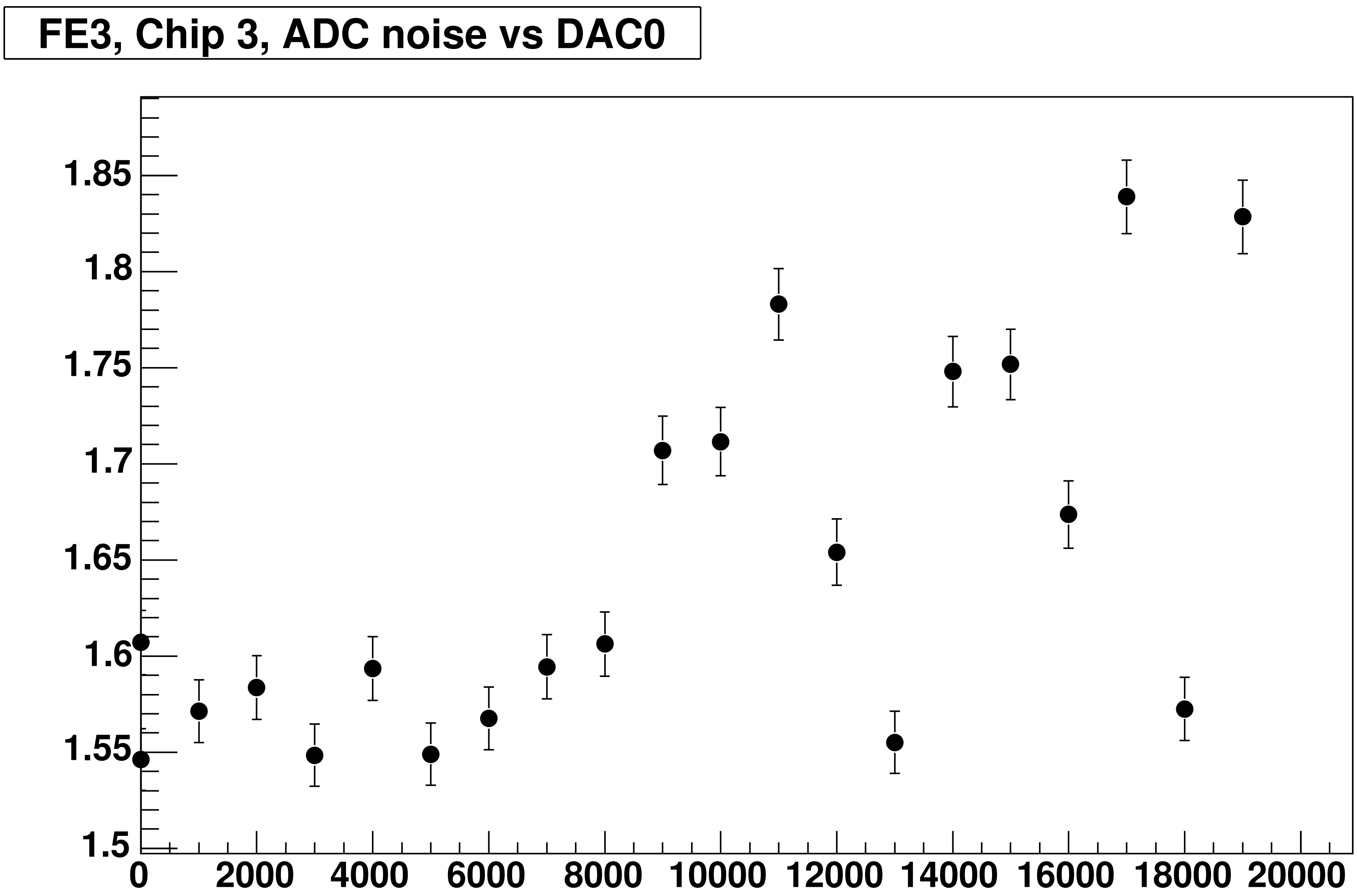


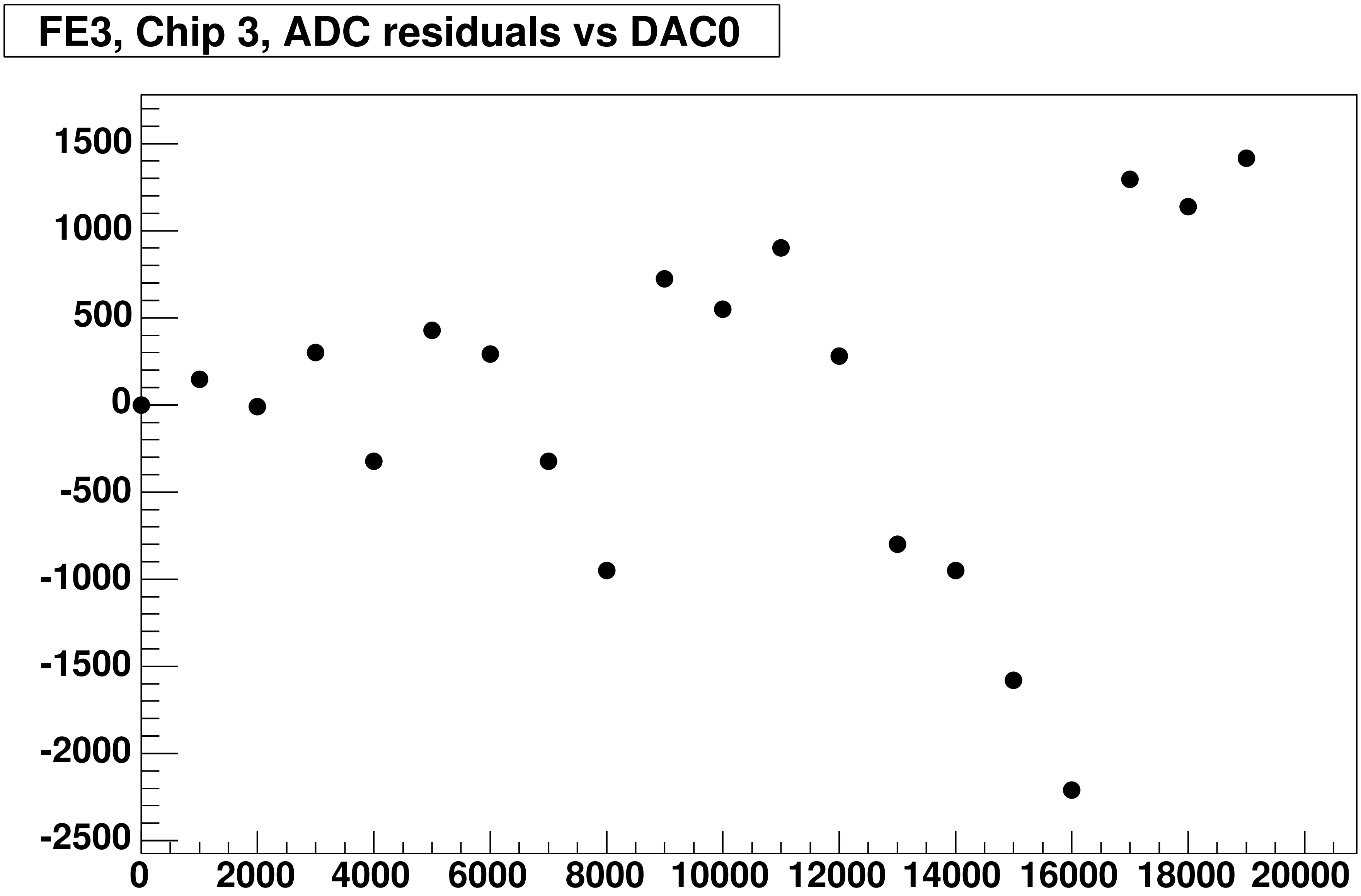
FE3, Chip 2, ADC noise vs DAC1
1.95
1.9
1.85
1.8
1.75
1.7
1.65
1.6
1.55
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

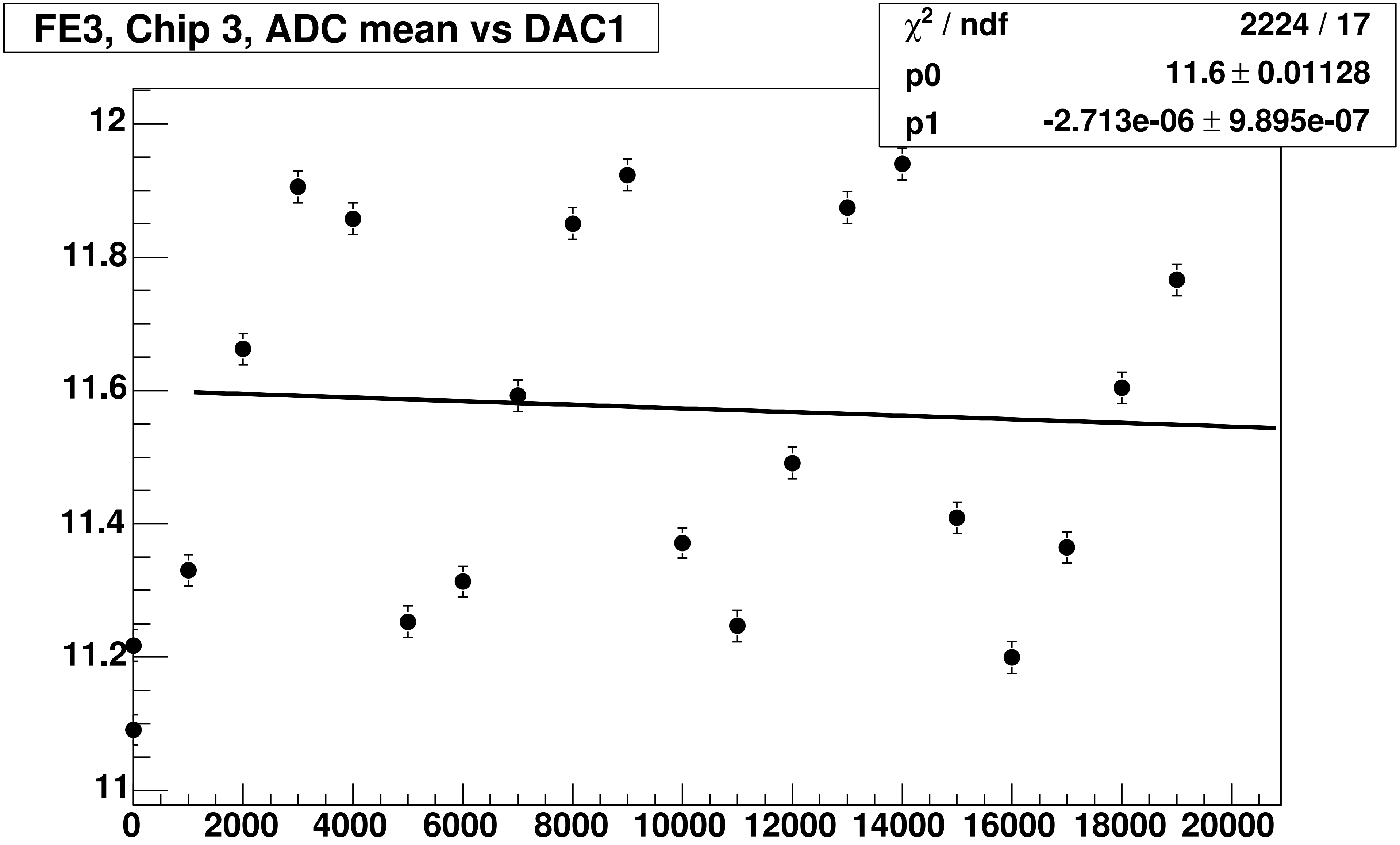

FE3, Chip 2, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



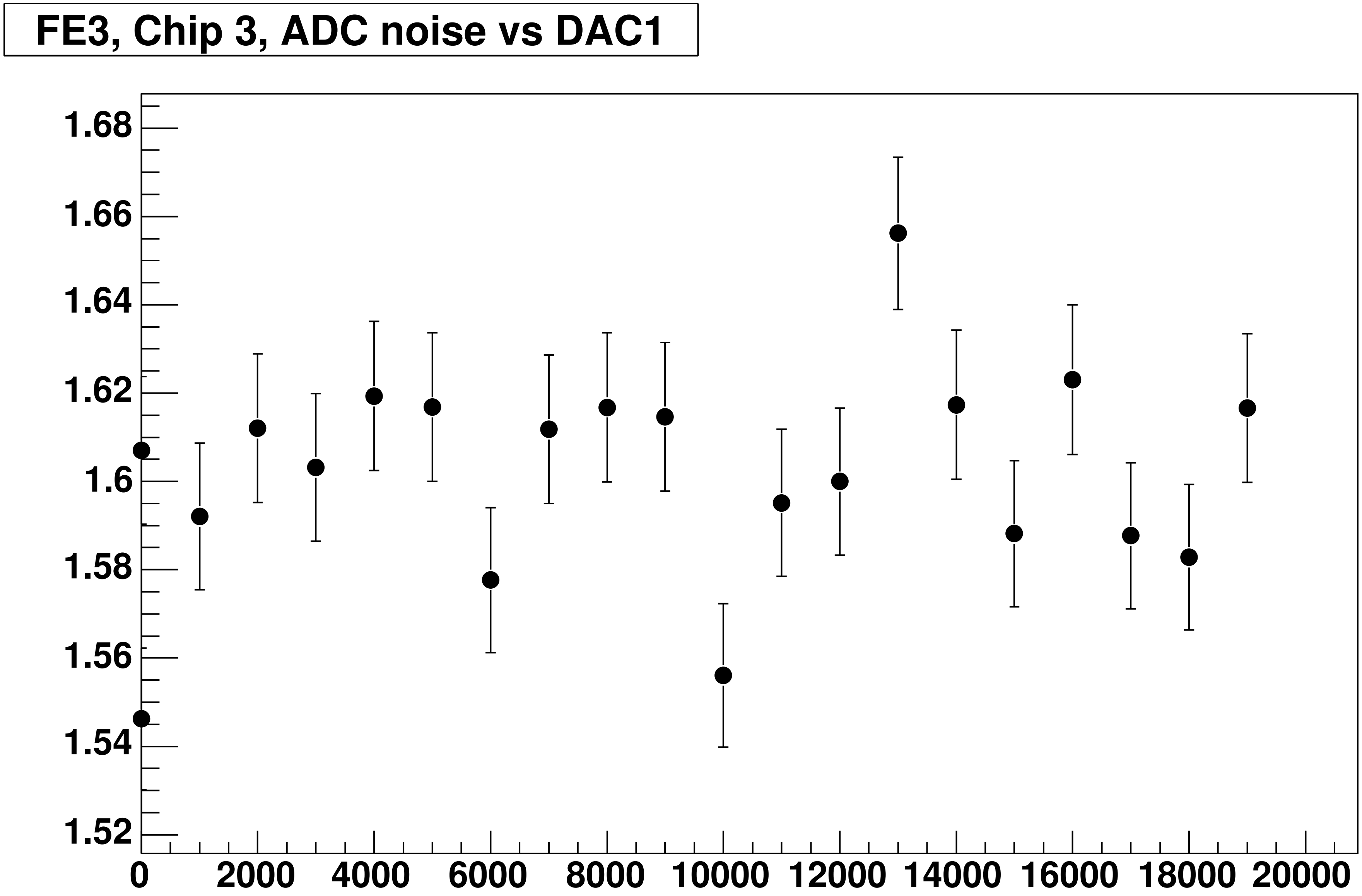
FE3, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 2.719e+10 / 17
p0 -294 ± 0.01123
p1 0.6173 ± 1.015e-06
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

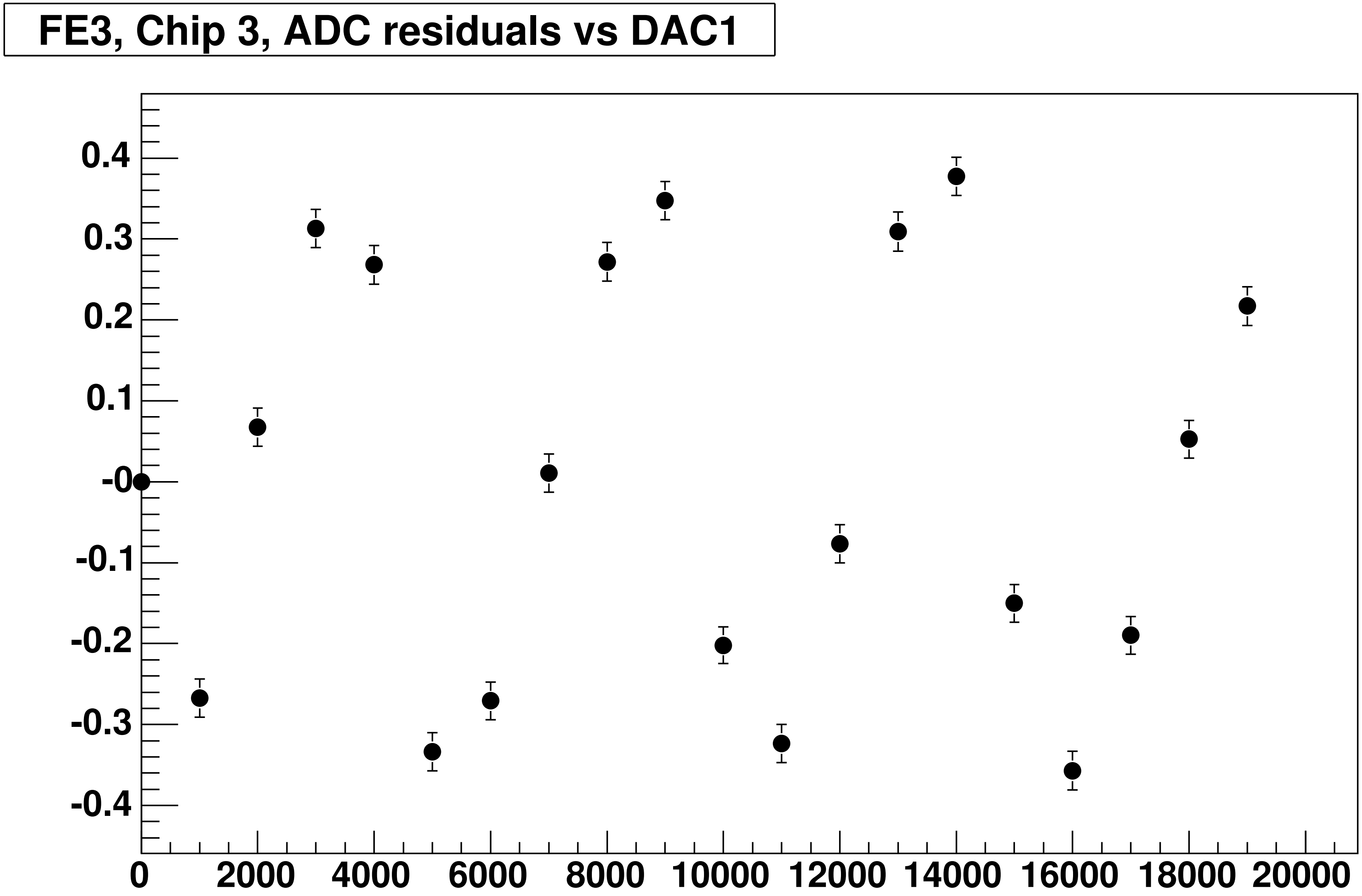

FE3, Chip 3, ADC noise vs DAC0
1.85
1.8
1.75
1.7
1.65
1.6
1.55
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

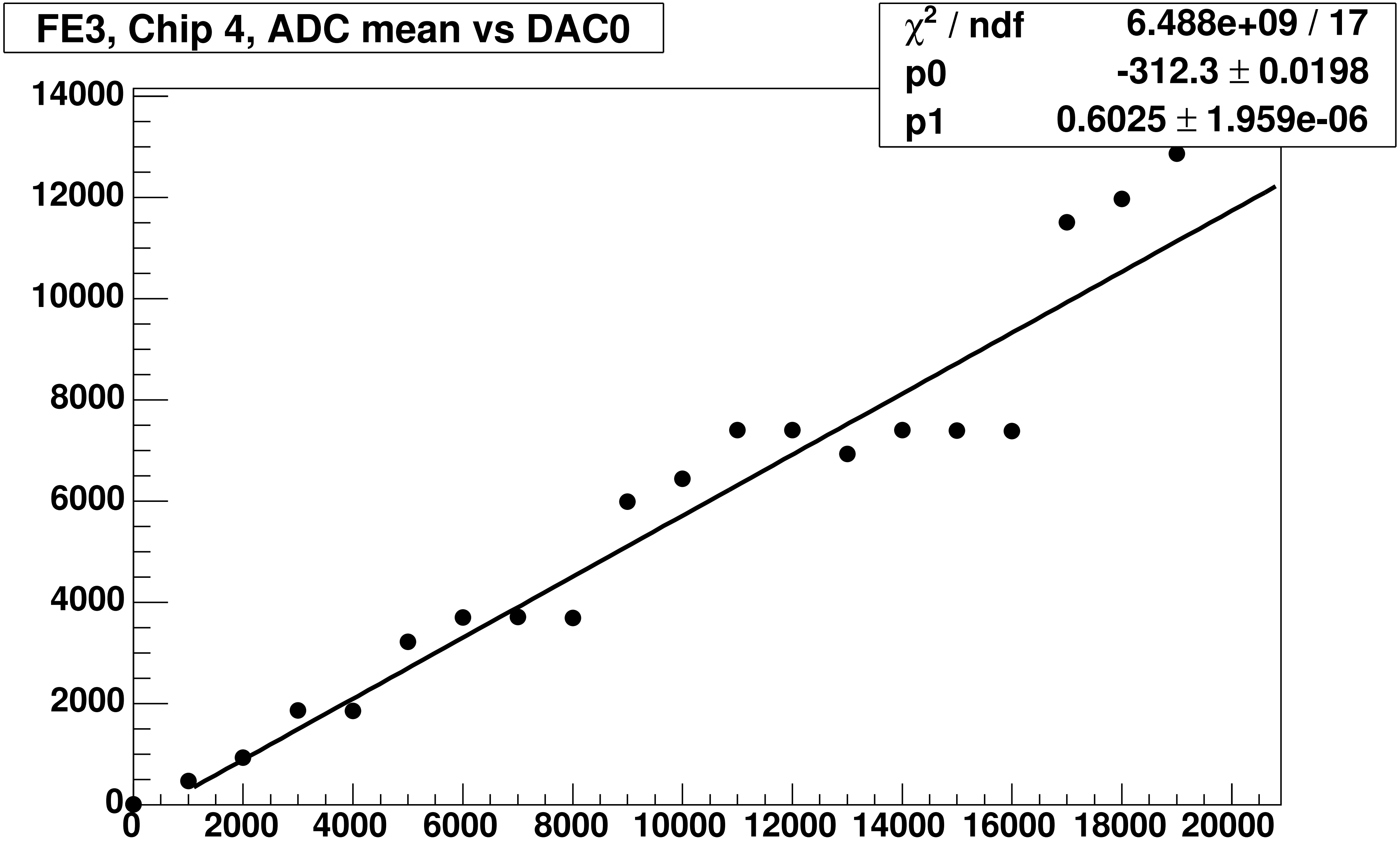

FE3, Chip 3, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

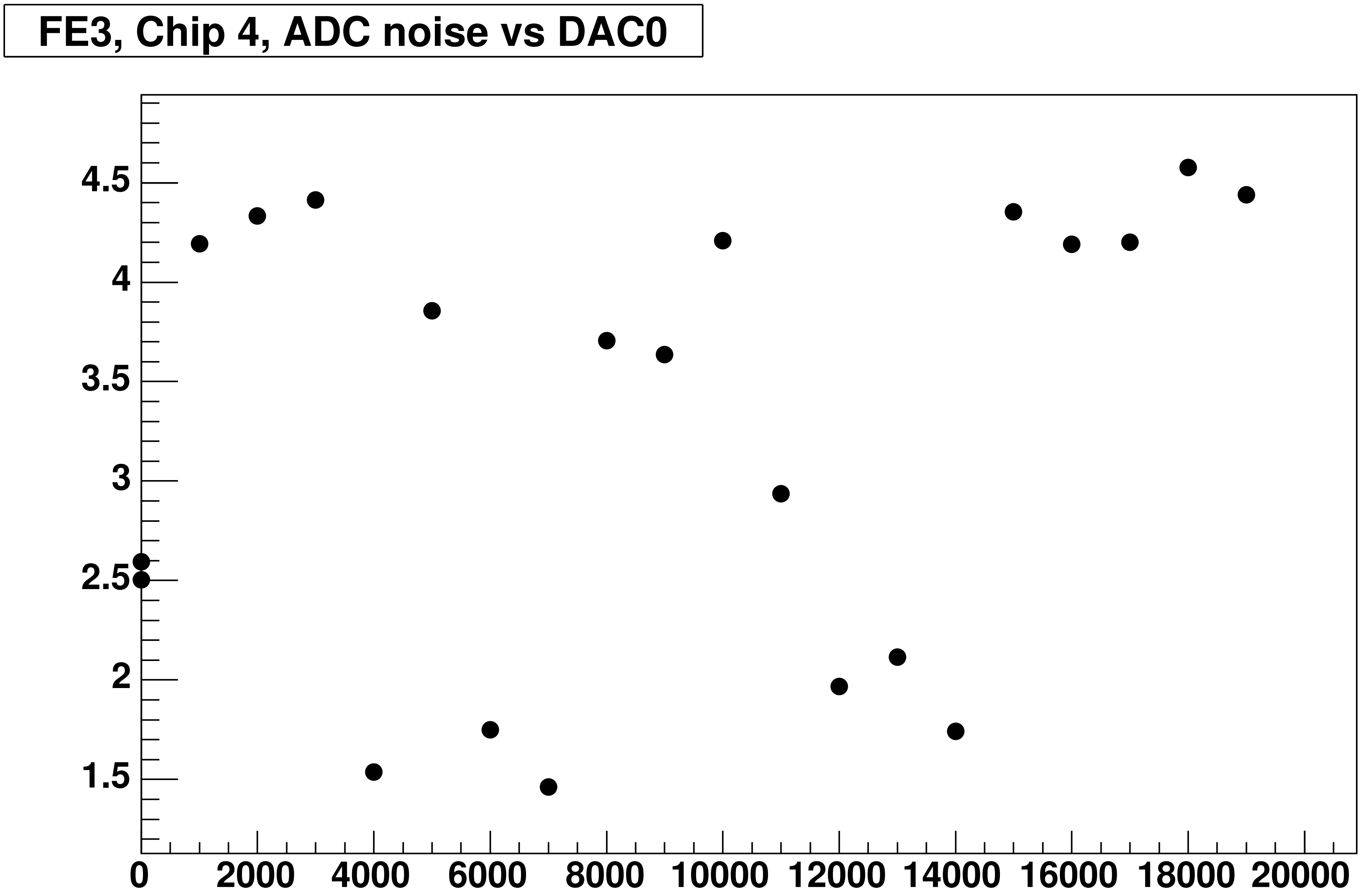


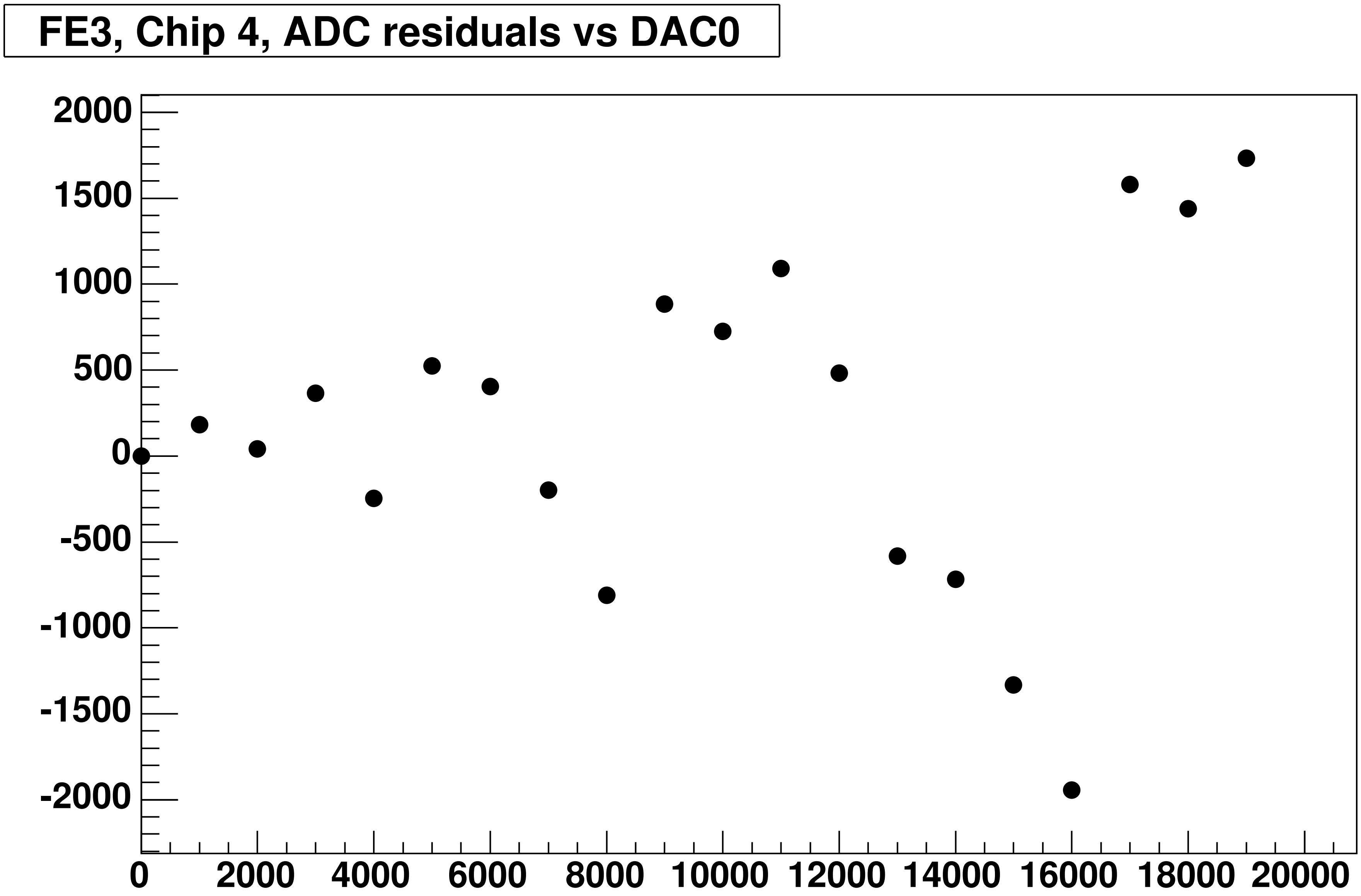
FE3, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 2224 / 17
p0 11.6 ± 0.01128
p1 -2.713e-06 ± 9.895e-07
12
11.8
11.6
11.4
11.2
11
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

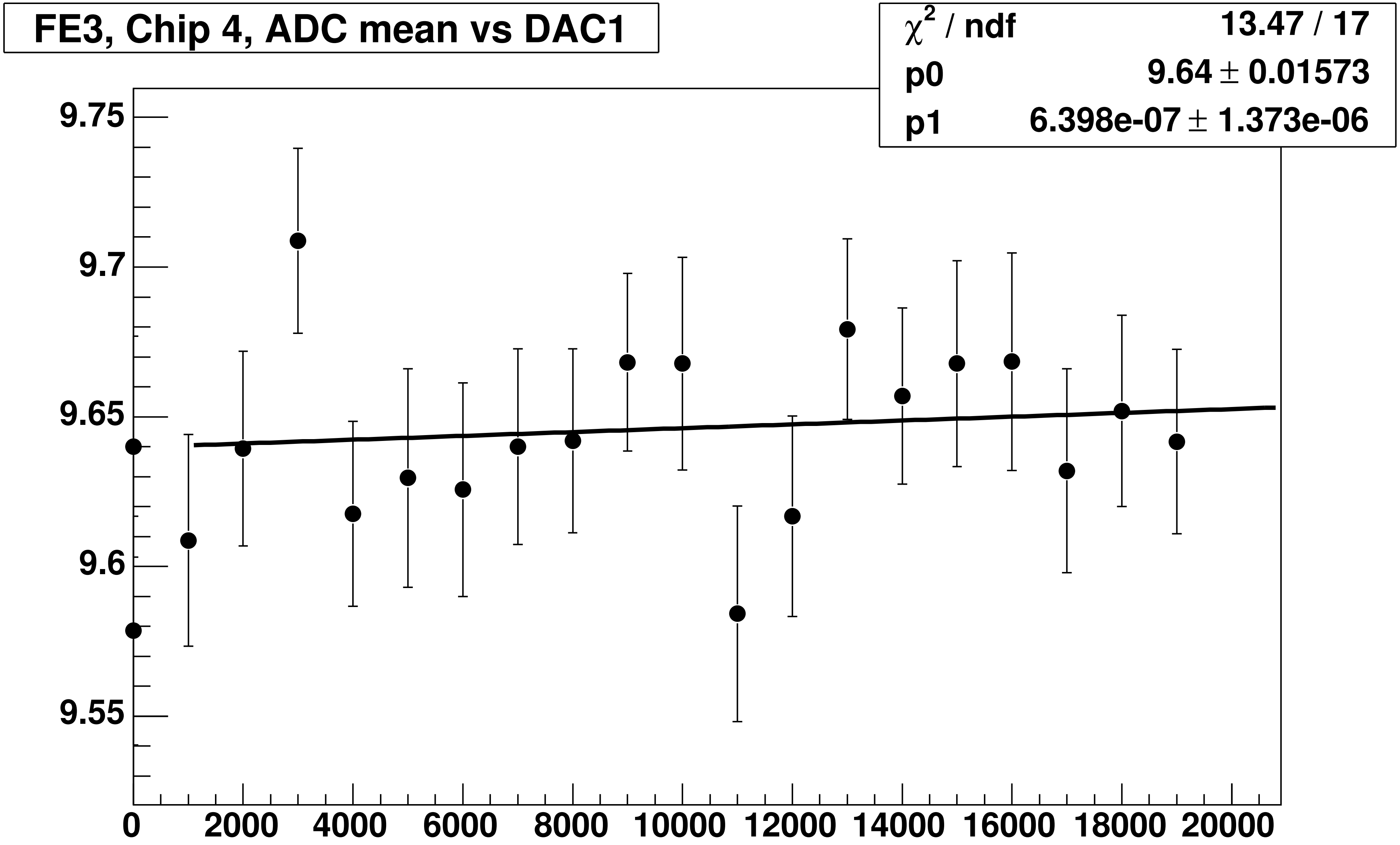

FE3, Chip 3, ADC noise vs DAC1
1.68
1.66
1.64
1.62
1.6
1.58
1.56
1.54
1.52
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE3, Chip 3, ADC residuals vs DAC1
0.4
0.3
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

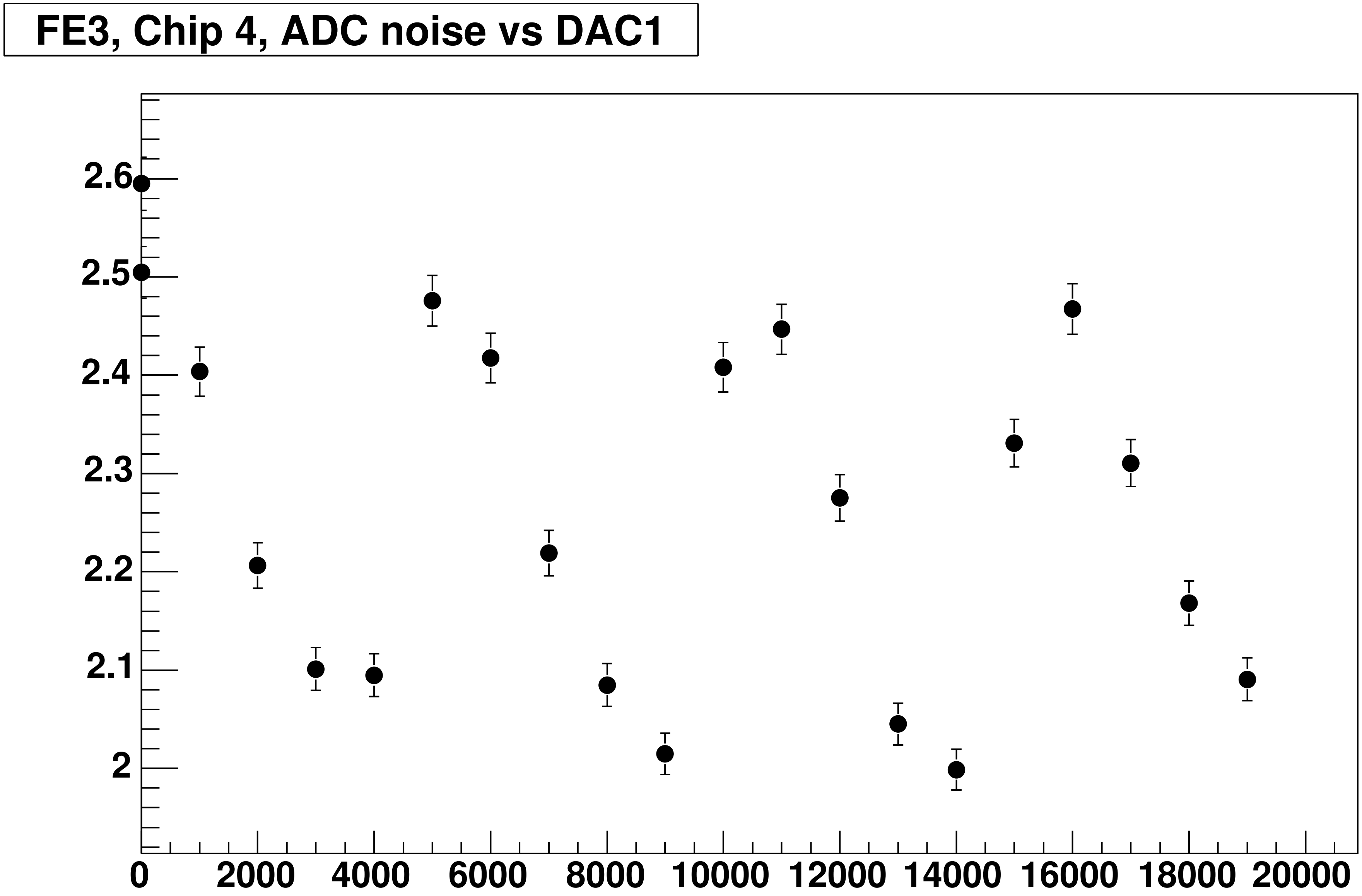

FE3, Chip 4, ADC mean vs DAC0
χ2 / ndf 6.488e+09 / 17
p0 -312.3 ± 0.0198
p1 0.6025 ± 1.959e-06
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

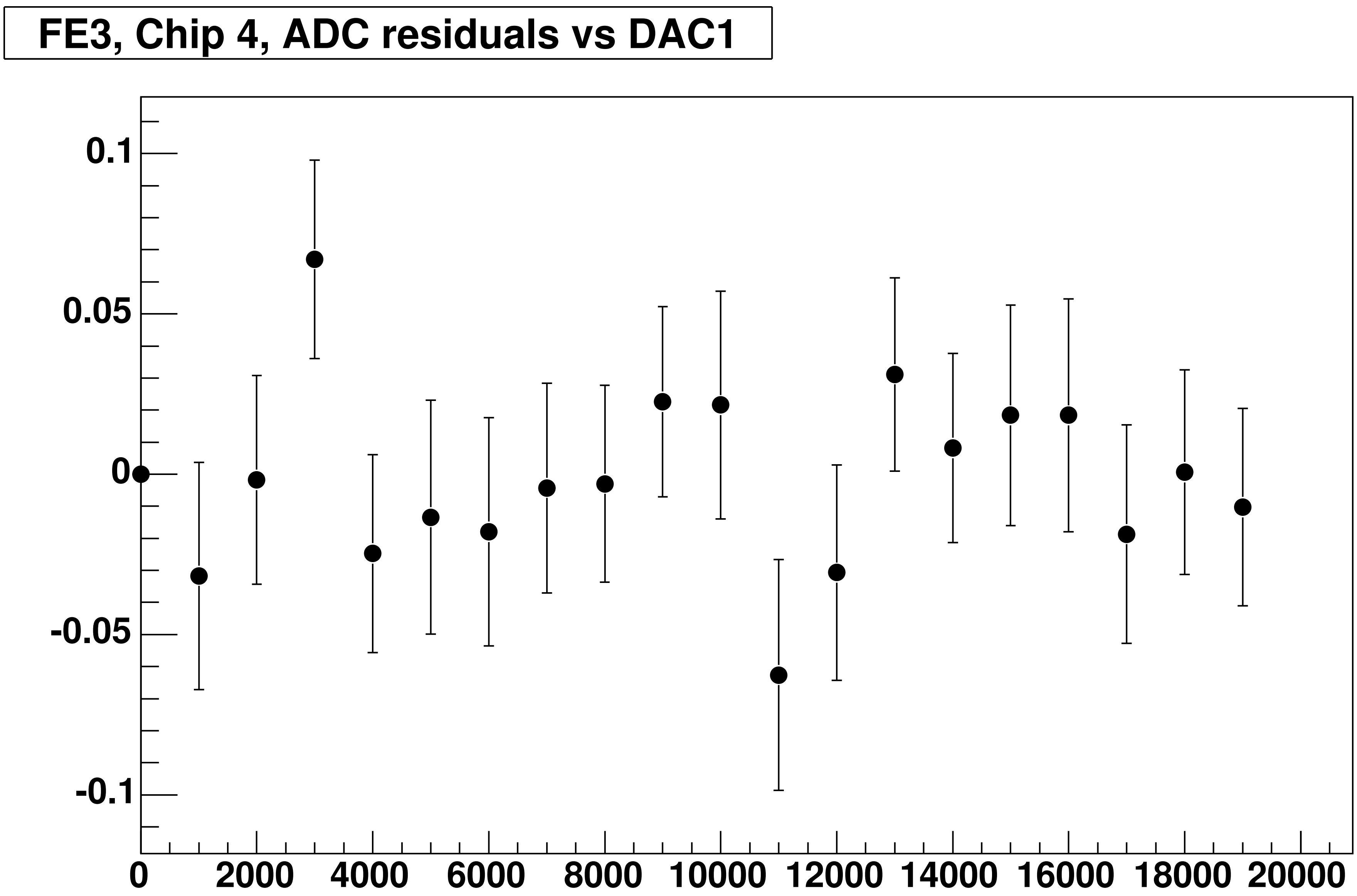

FE3, Chip 4, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

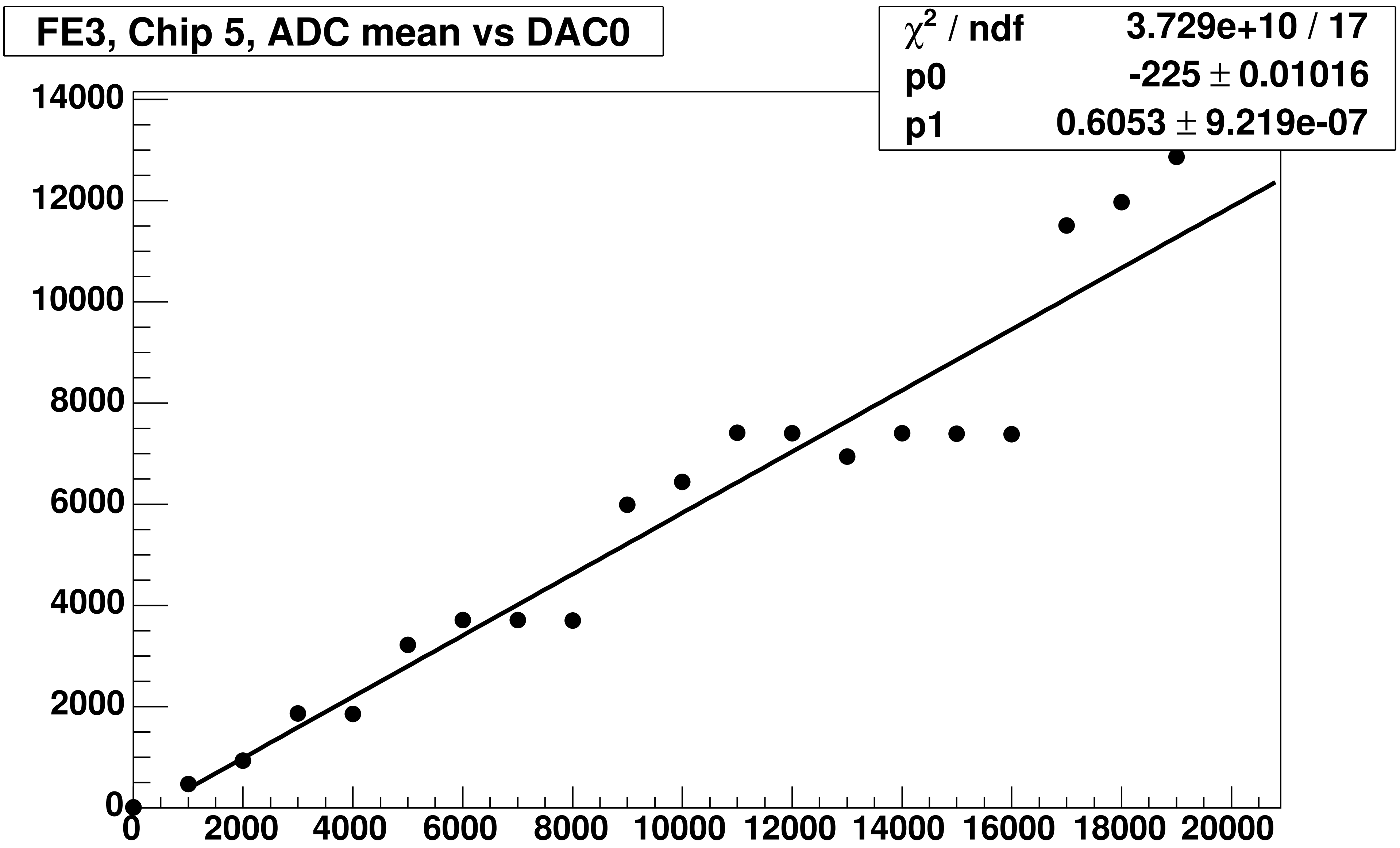

FE3, Chip 4, ADC residuals vs DAC0
2000
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

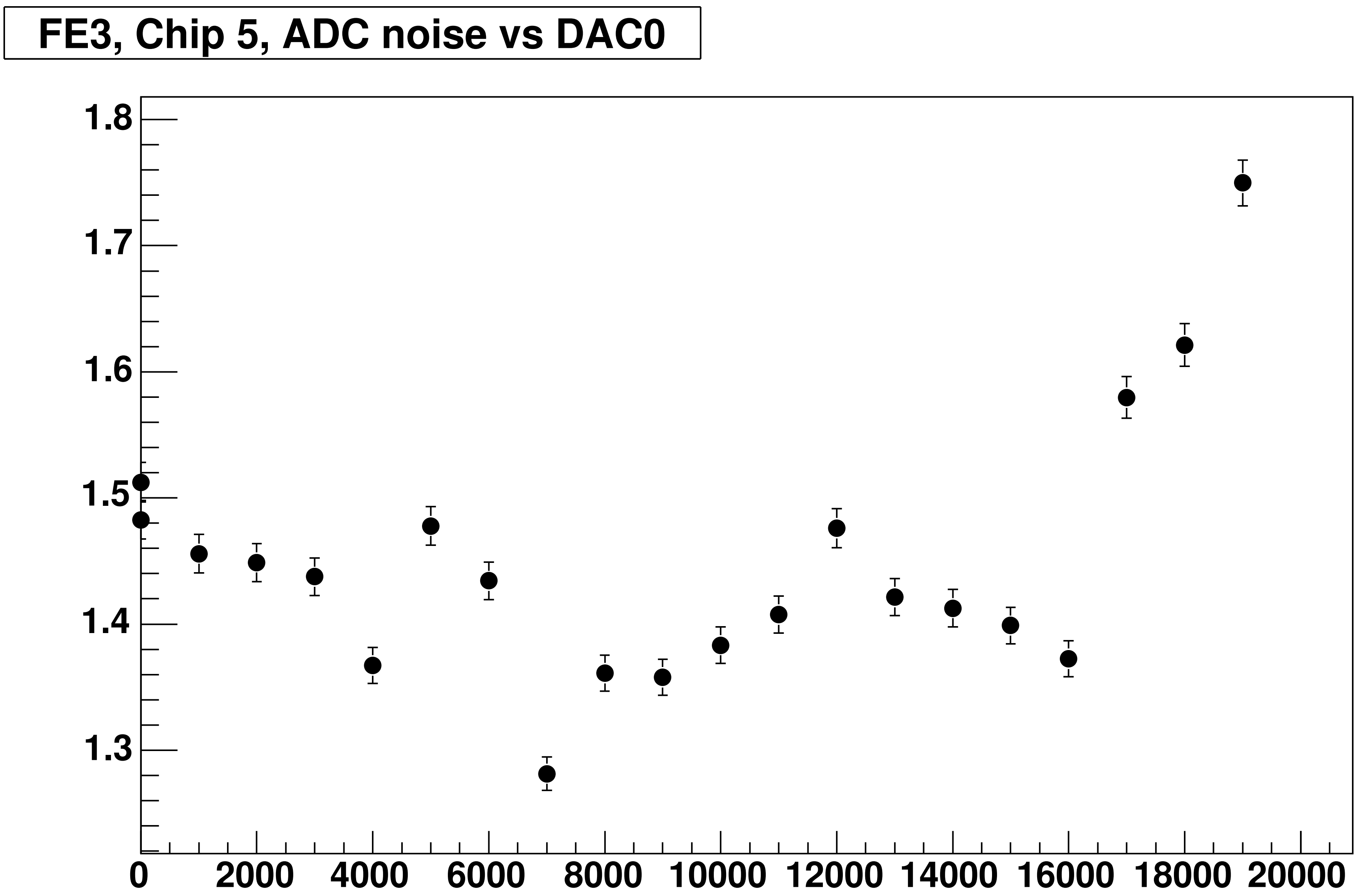


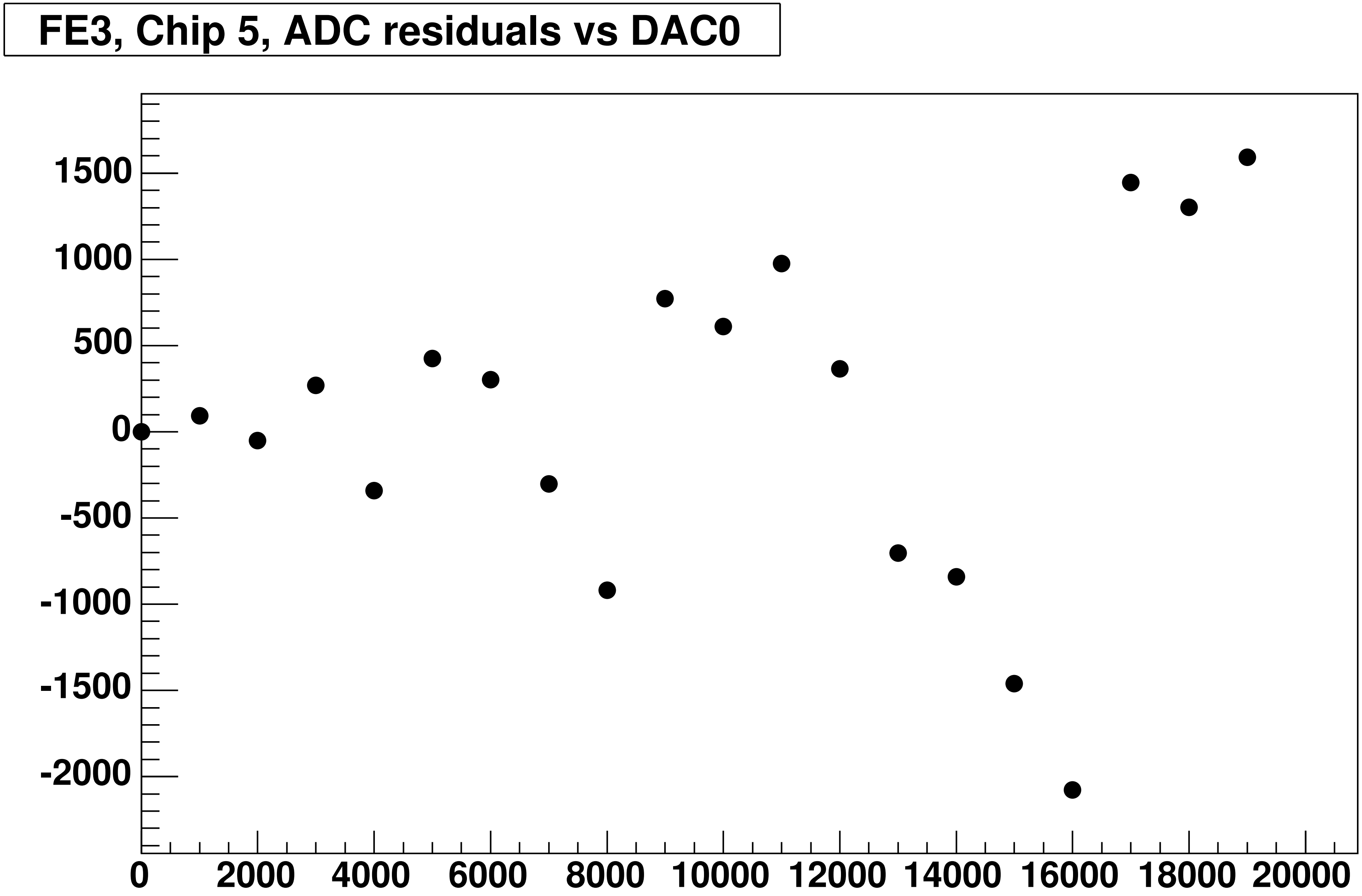
FE3, Chip 4, ADC mean vs DAC1
$\chi^2$ / ndf 13.47 / 17
p0 9.64 ± 0.01573
p1 6.398e-07 ± 1.373e-06
9.75
9.7
9.65
9.6
9.55
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE3, Chip 4, ADC noise vs DAC1
2.6
2.5
2.4
2.3
2.2
2.1
2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

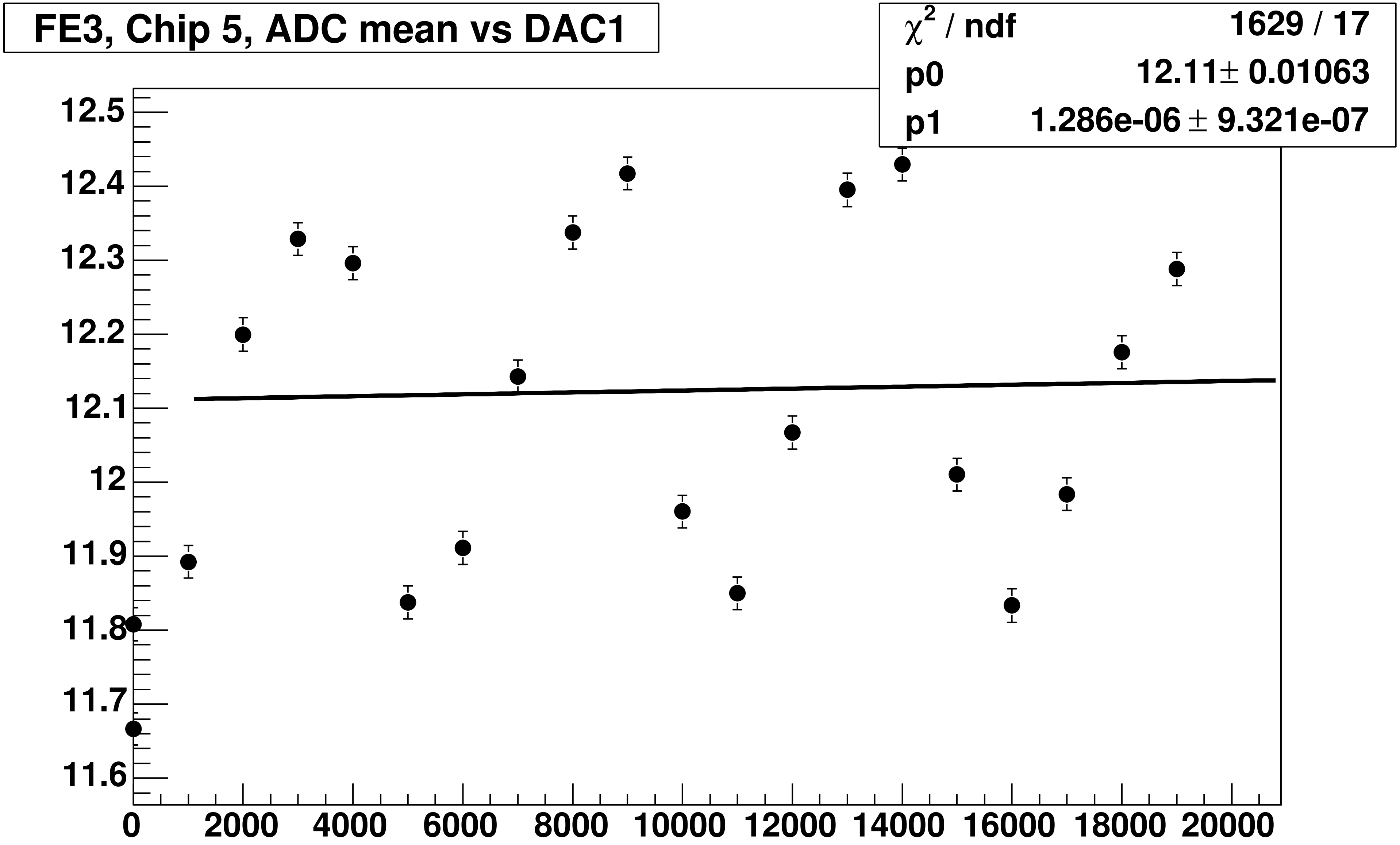

FE3, Chip 4, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

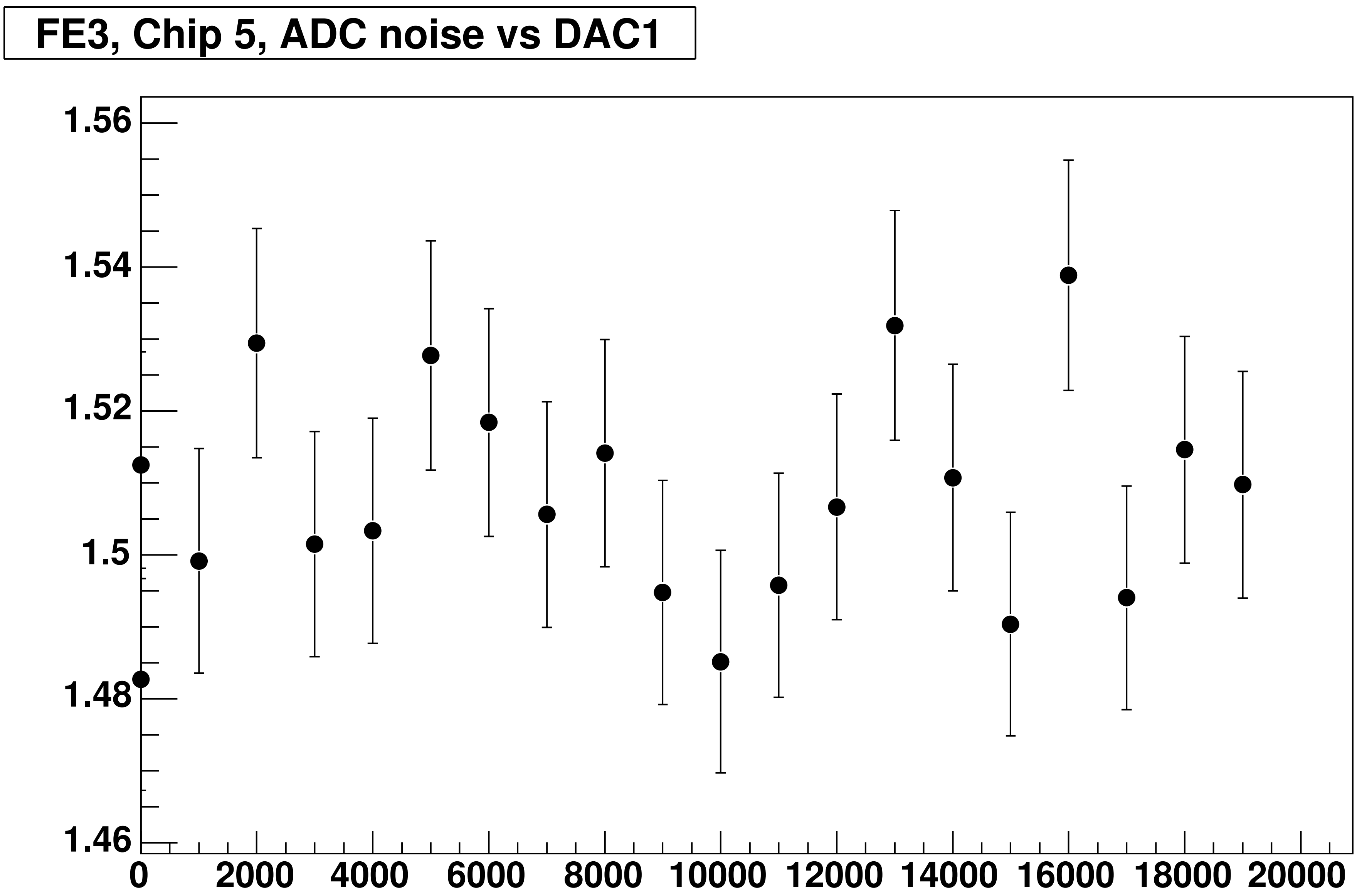

FE3, Chip 5, ADC mean vs DAC0
$\chi^2$ / ndf 3.729e+10 / 17
p0 -225 ± 0.01016
p1 0.6053 ± 9.219e-07
0
2000
4000
6000
8000
10000
12000
14000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

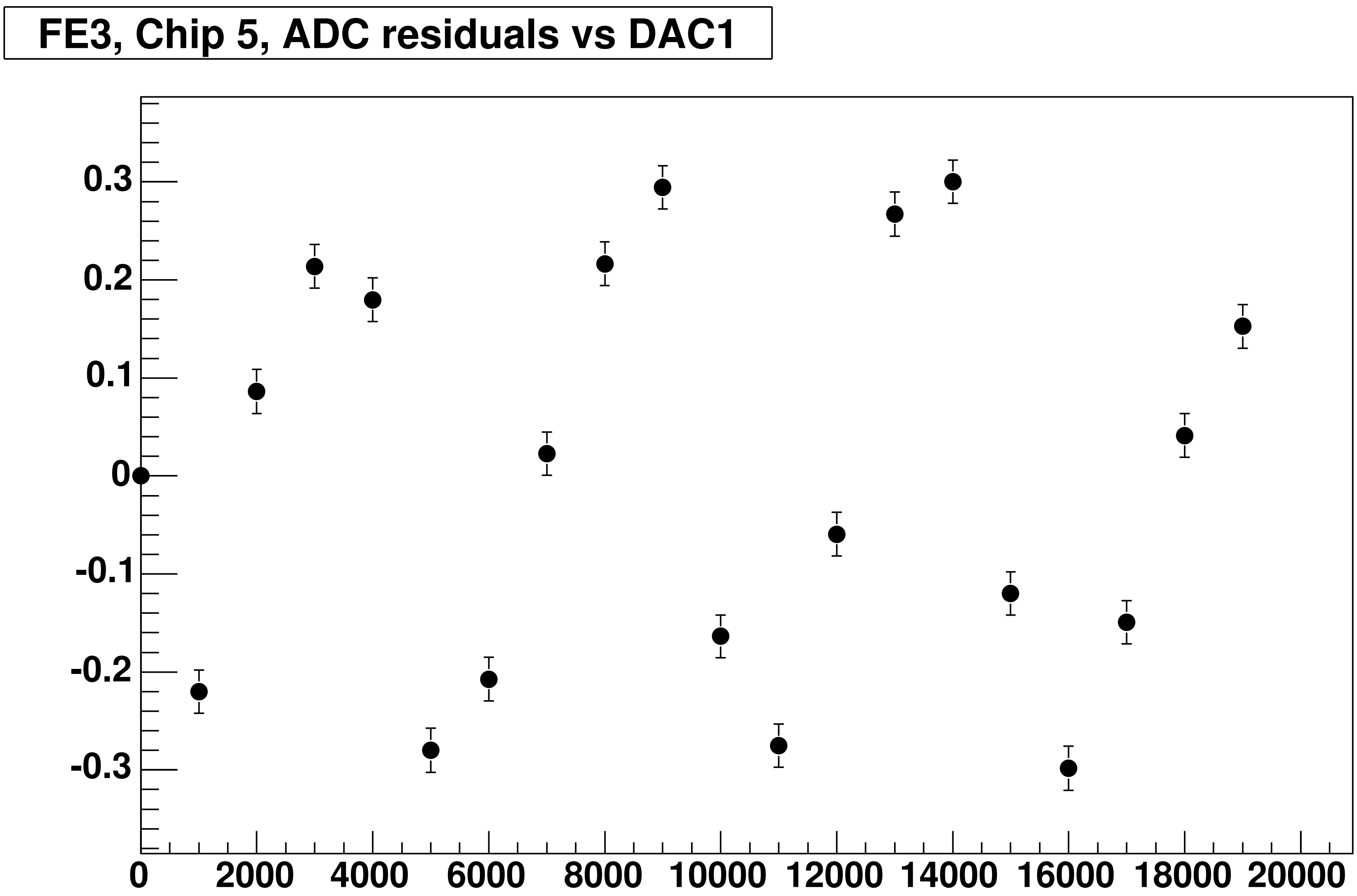

FE3, Chip 5, ADC noise vs DAC0
1.8
1.7
1.6
1.5
1.4
1.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

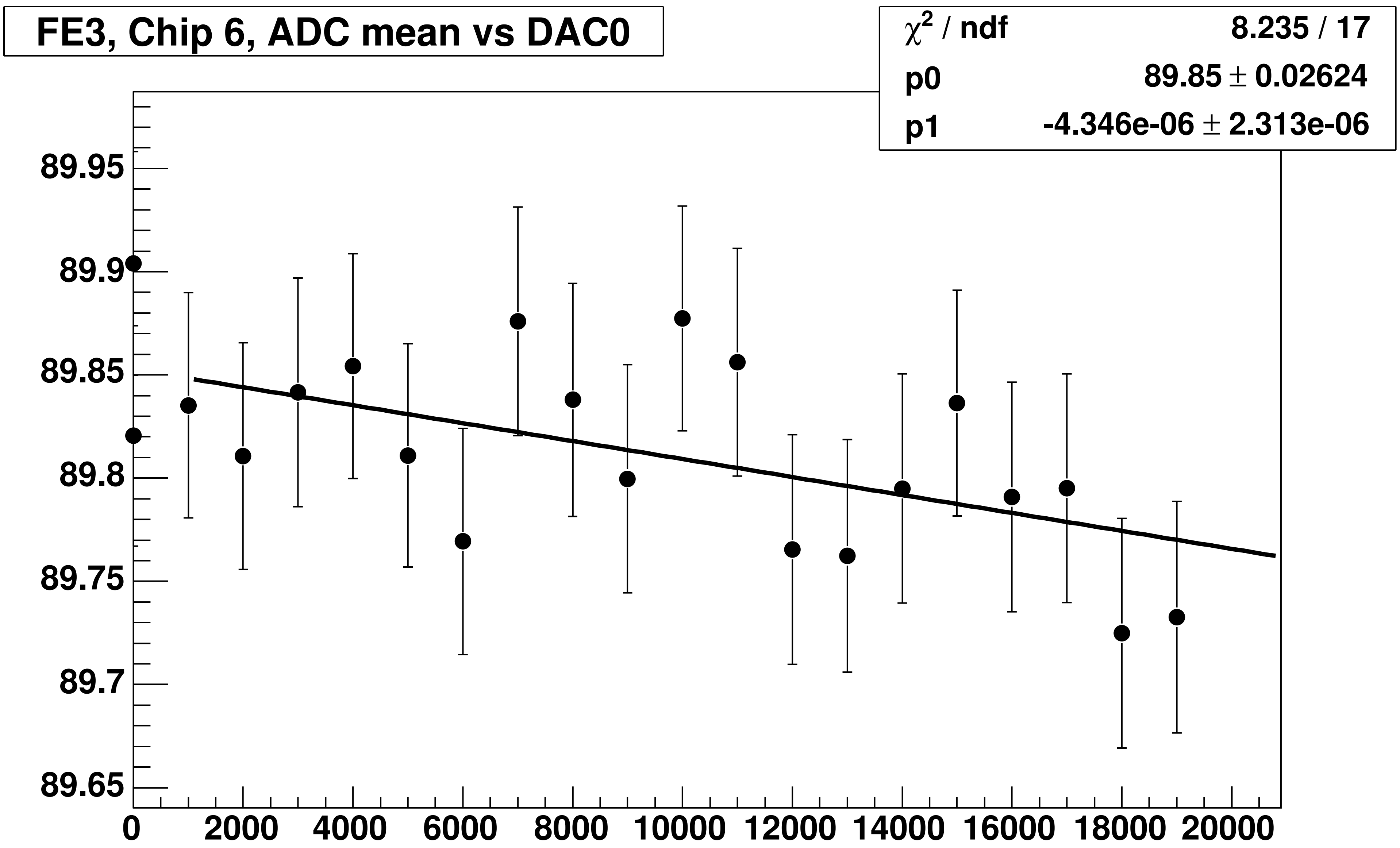


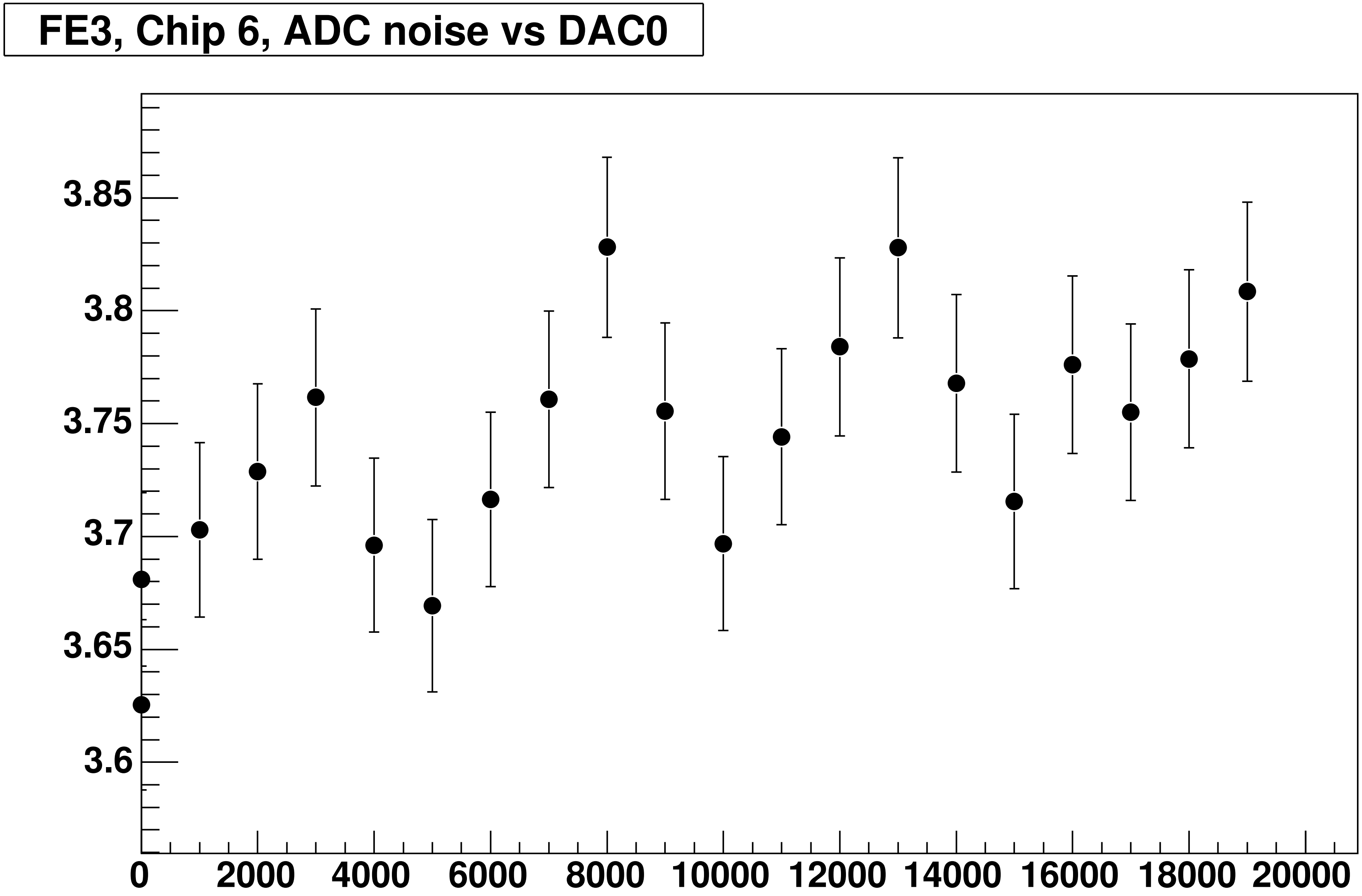
FE3, Chip 5, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

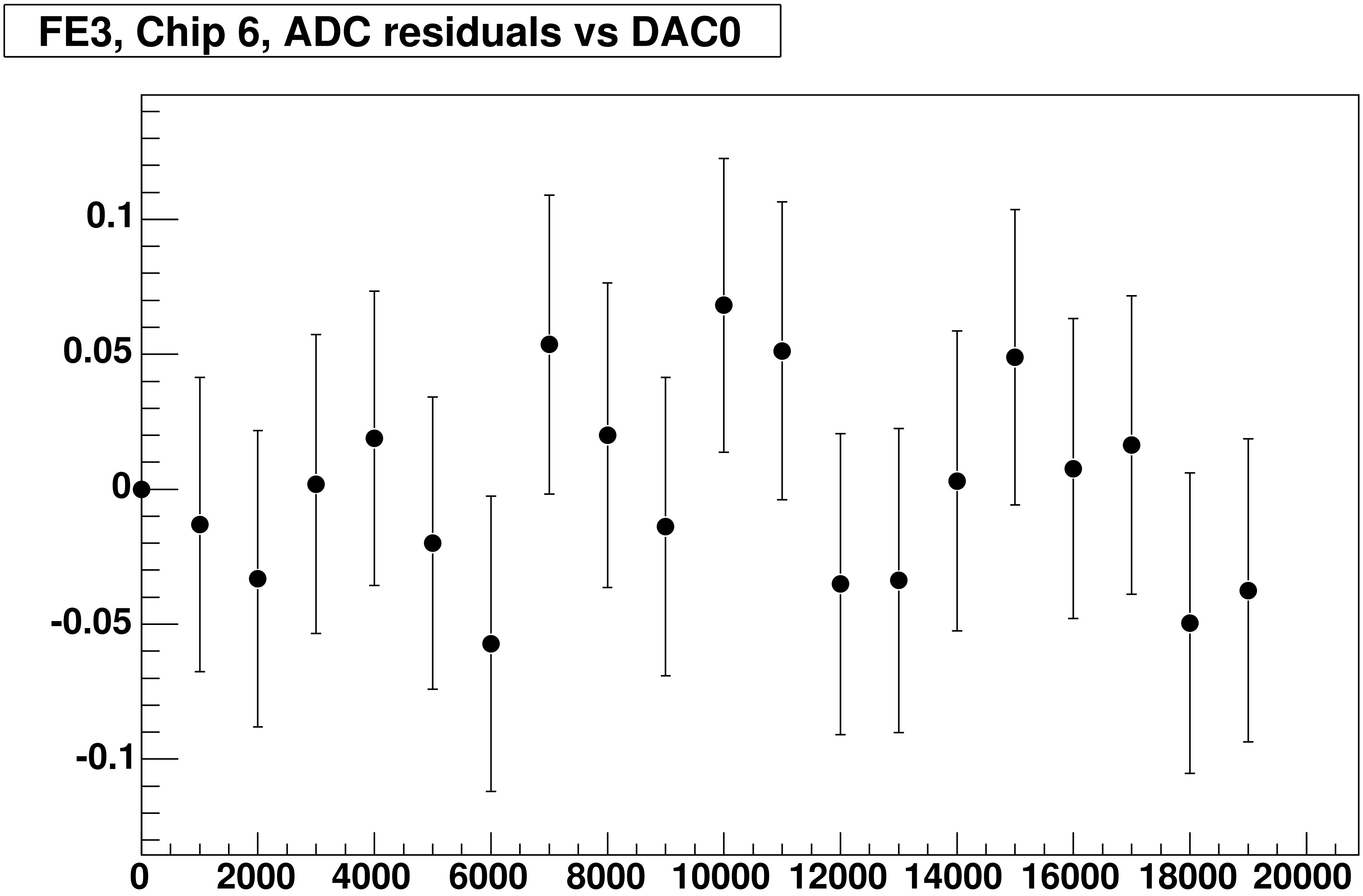

FE3, Chip 5, ADC mean vs DAC1
χ² / ndf 1629 / 17
p0 12.11± 0.01063
p1 1.286e-06 ± 9.321e-07
12.5
12.4
12.3
12.2
12.1
12
11.9
11.8
11.7
11.6
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

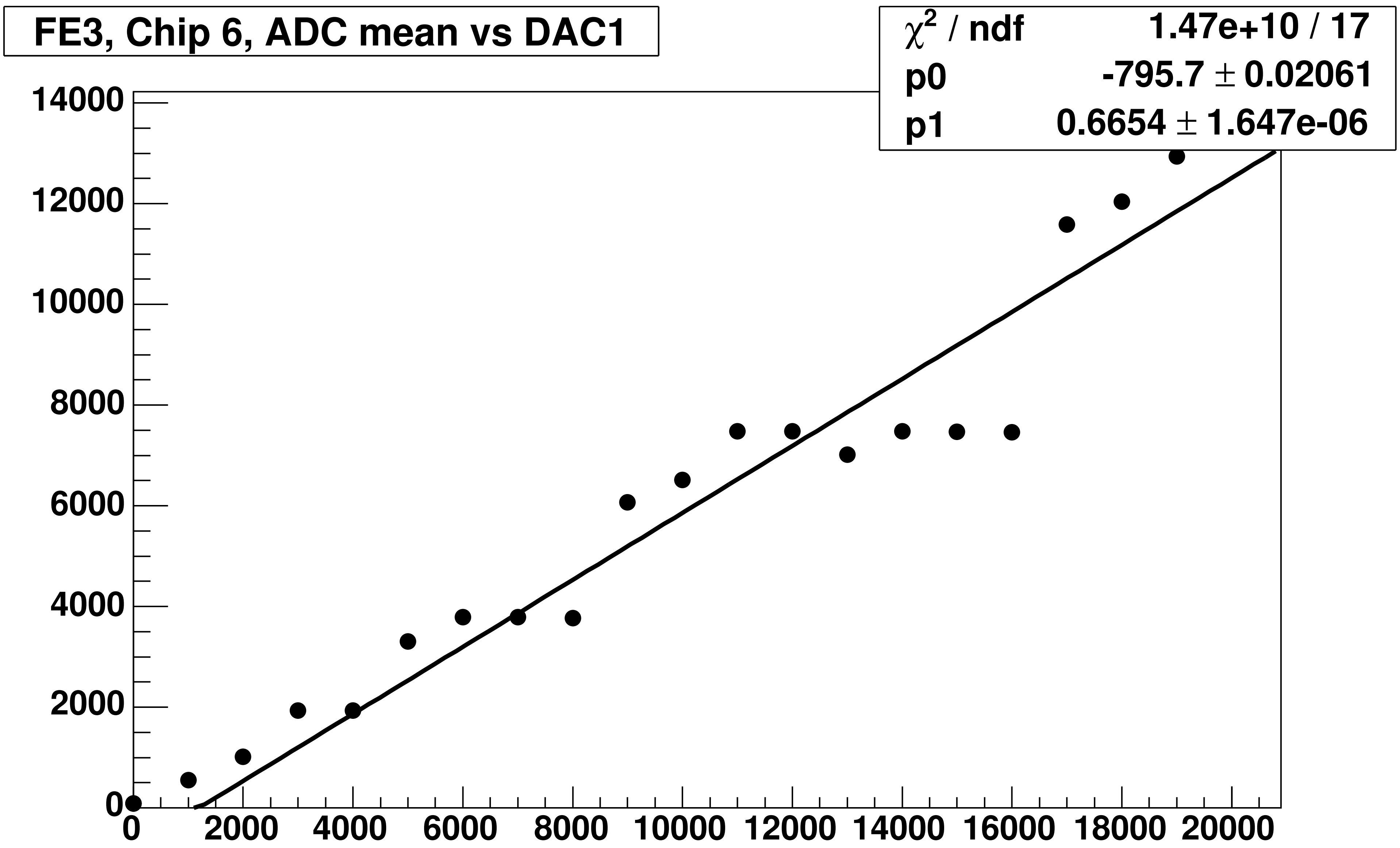

FE3, Chip 5, ADC noise vs DAC1
1.56
1.54
1.52
1.5
1.48
1.46
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

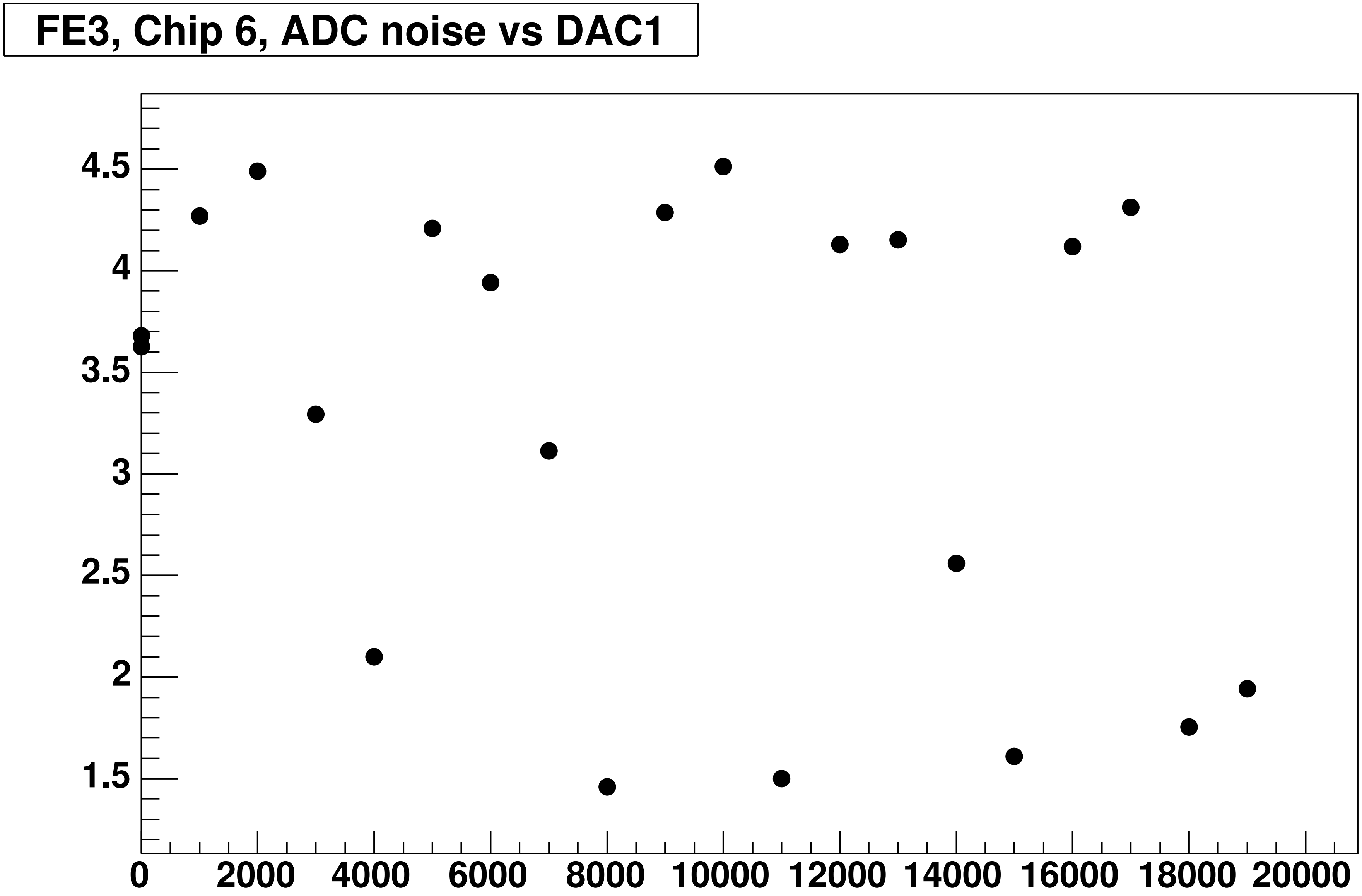

FE3, Chip 5, ADC residuals vs DAC1
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

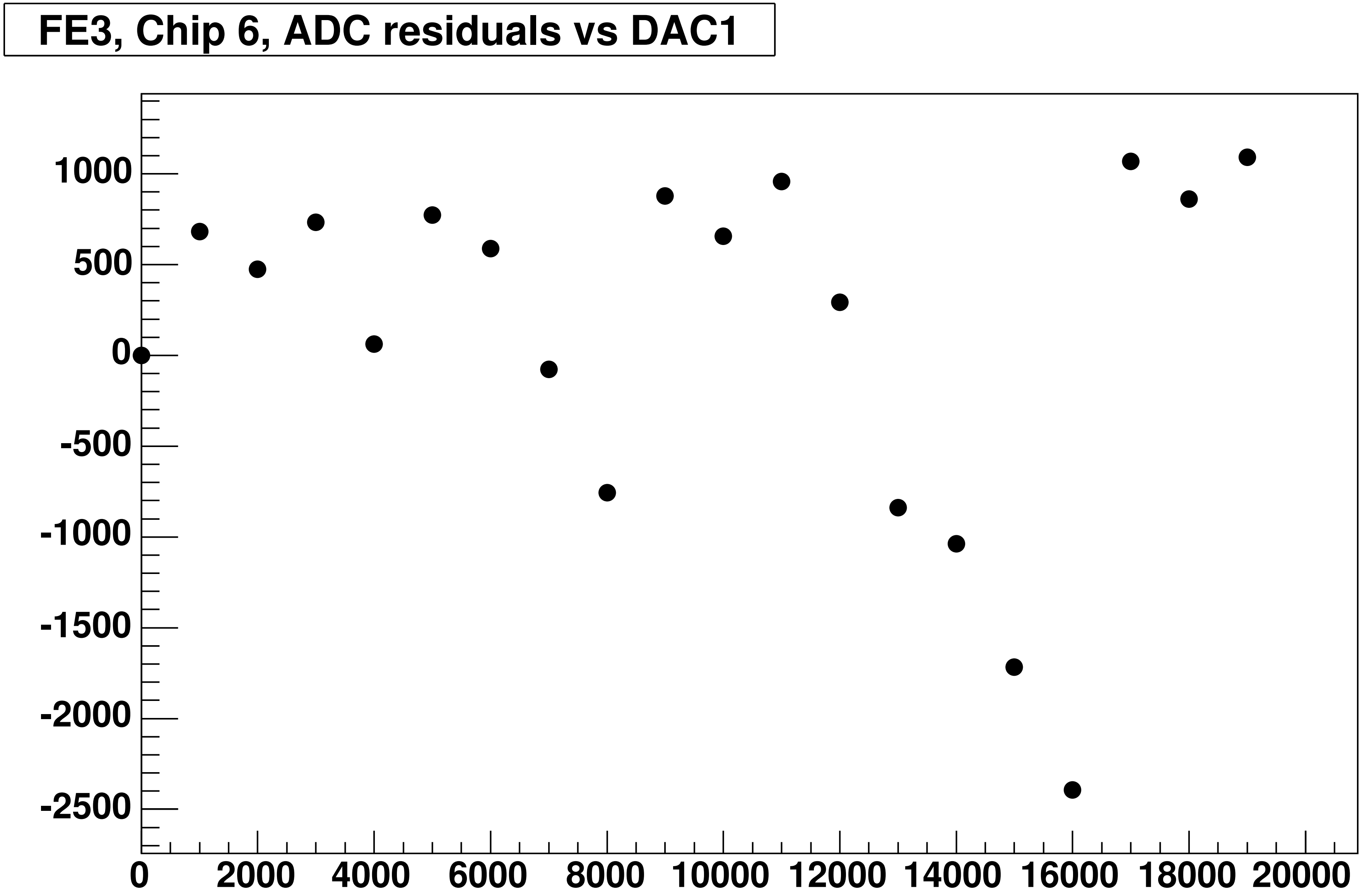

FE3, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 8.235 / 17
p0 89.85 ± 0.02624
p1 -4.346e-06 ± 2.313e-06
89.95
89.9
89.85
89.8
89.75
89.7
89.65
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

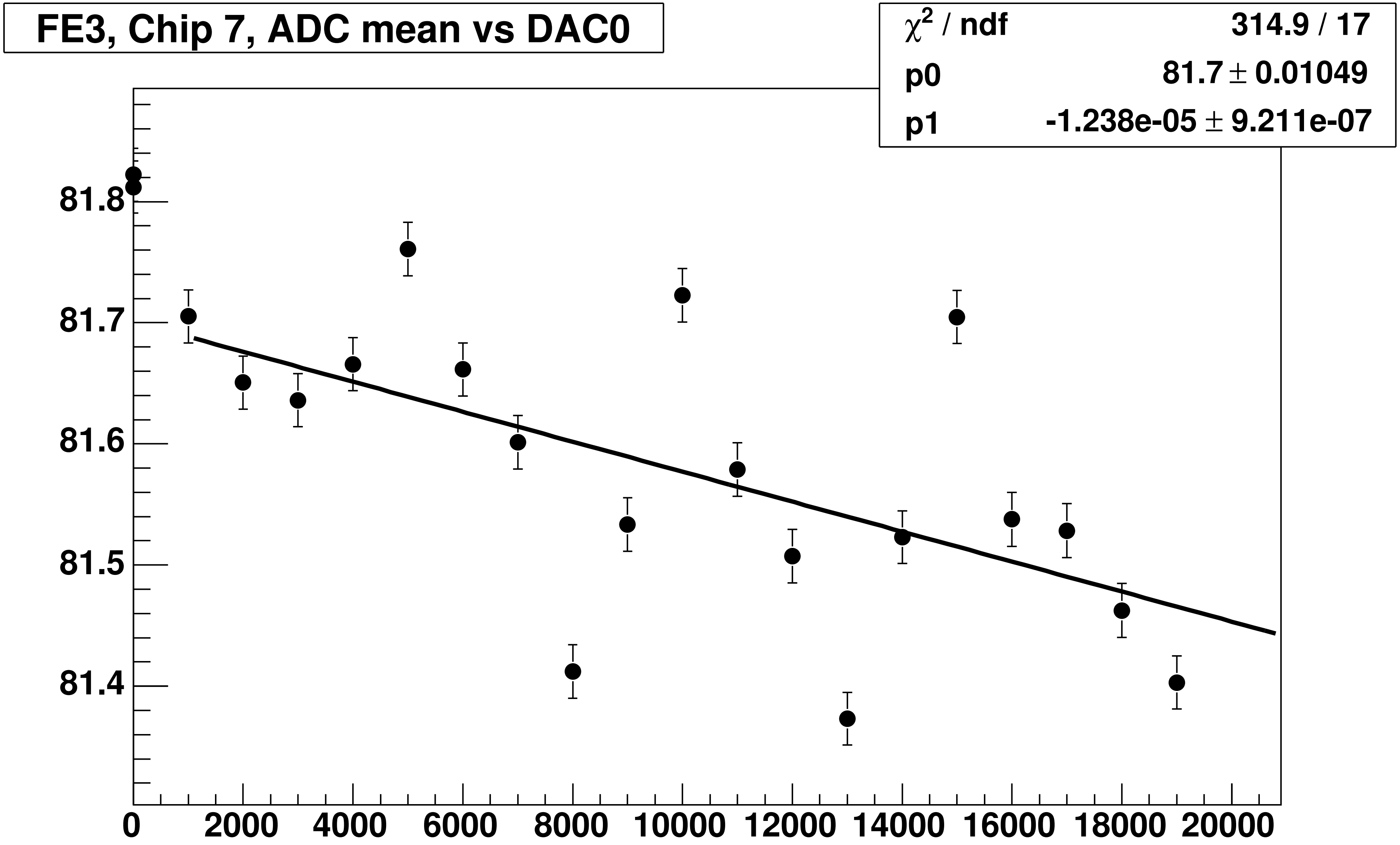

FE3, Chip 6, ADC noise vs DAC0
3.85
3.8
3.75
3.7
3.65
3.6
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

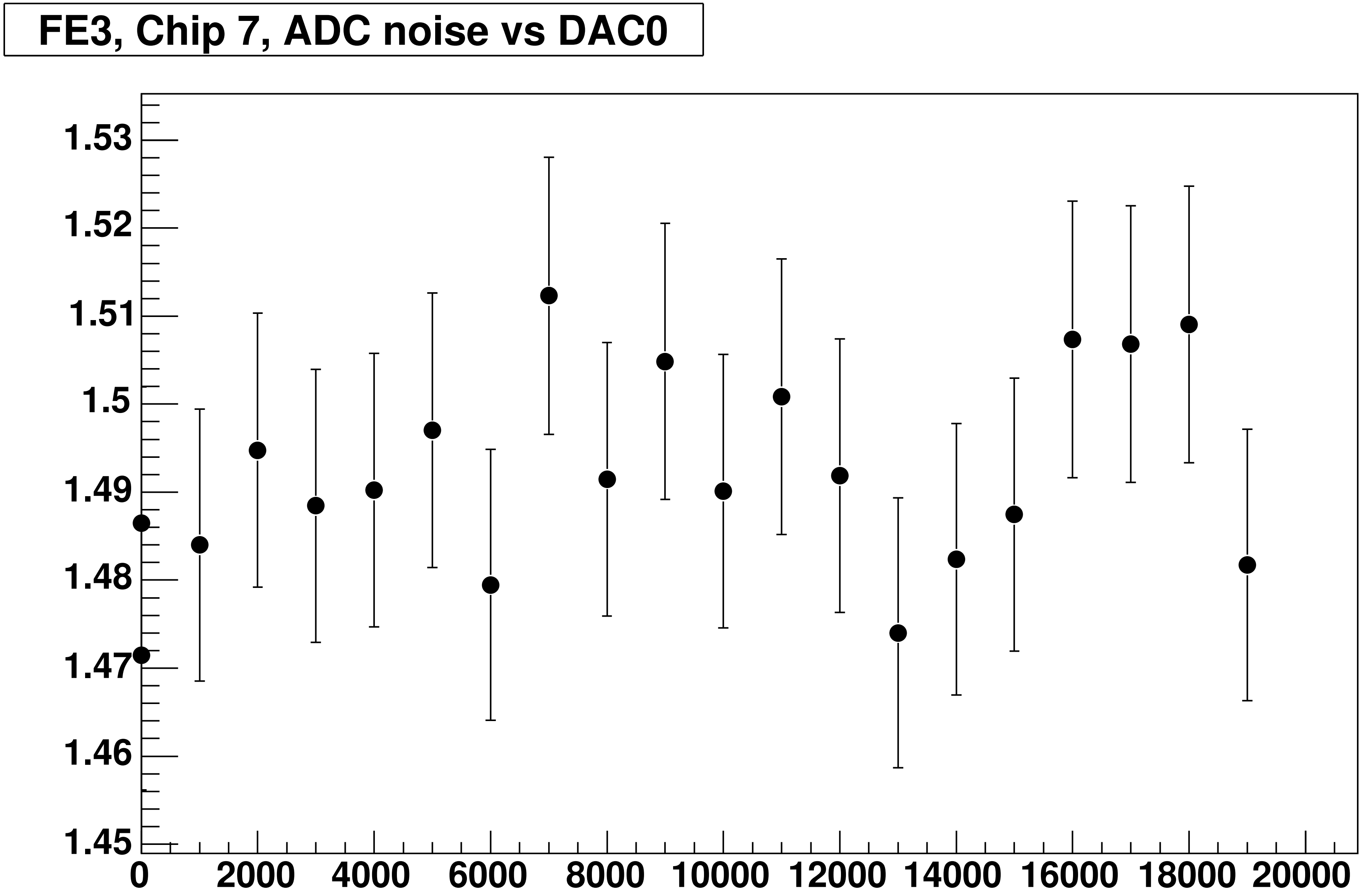

FE3, Chip 6, ADC residuals vs DAC0
0.1
0.05
0
-0.05
-0.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

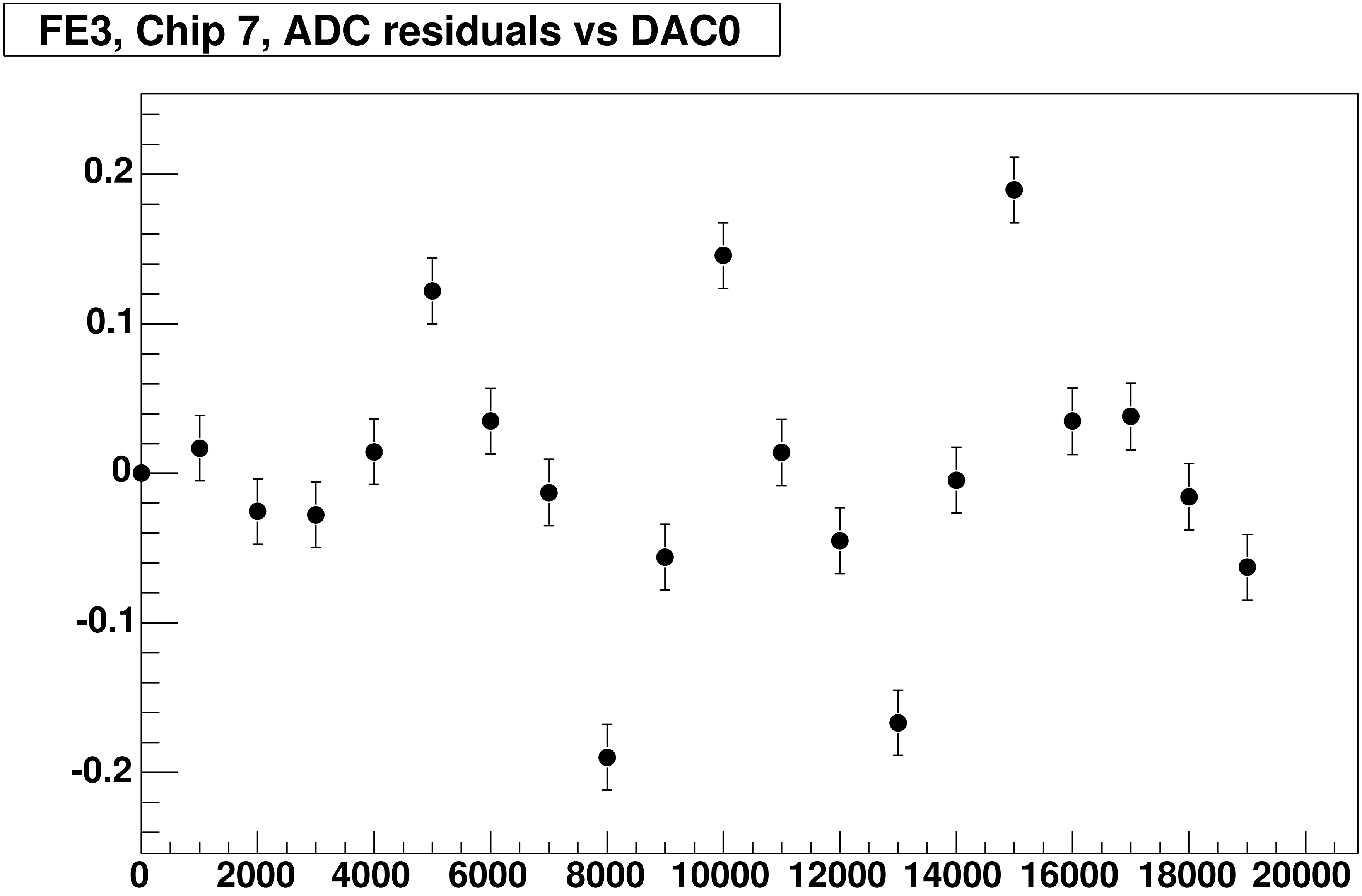

FE3, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 1.47e+10 / 17
p0 -795.7 ± 0.02061
p1 0.6654 ± 1.647e-06
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE3, Chip 6, ADC noise vs DAC1
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

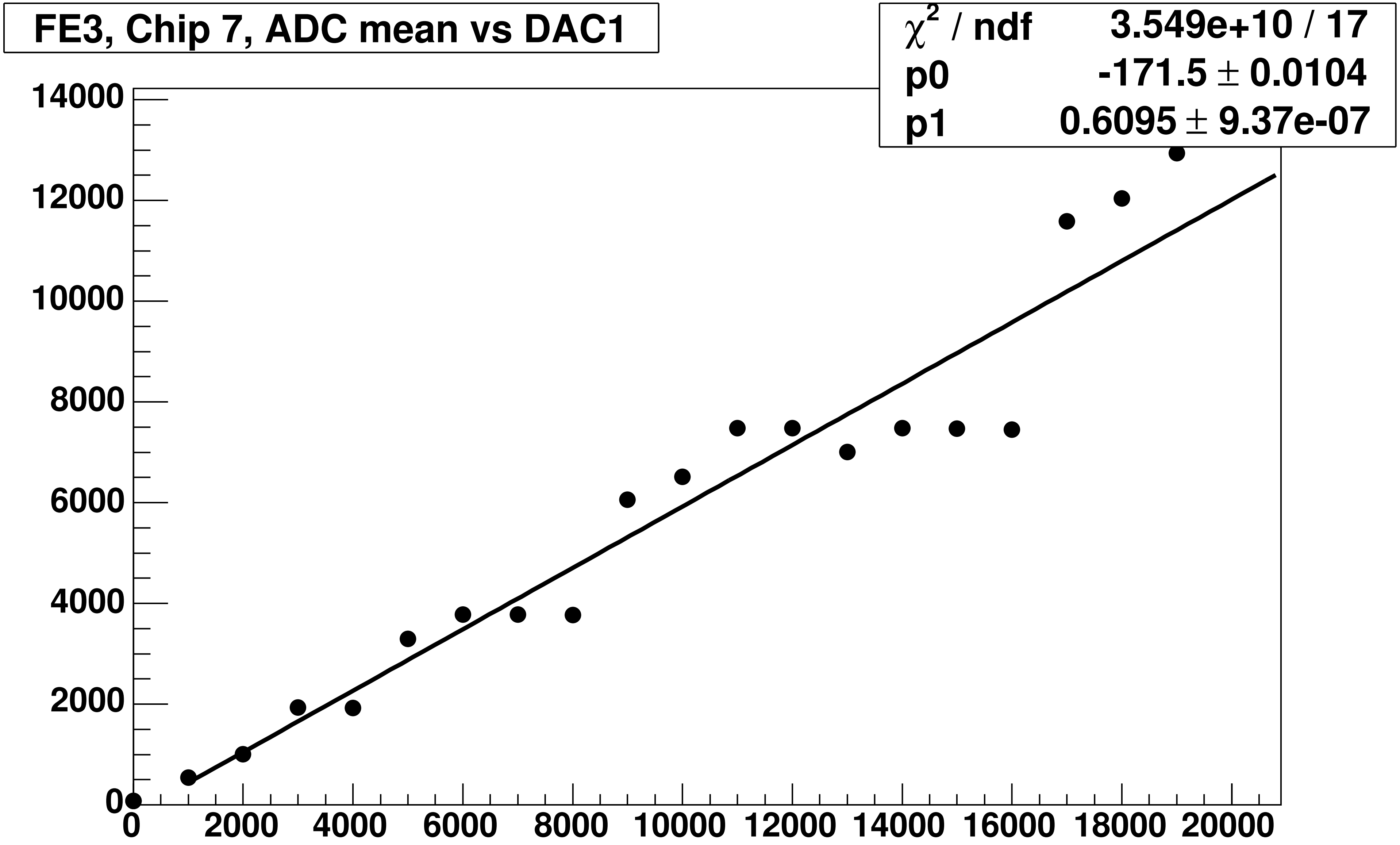

FE3, Chip 6, ADC residuals vs DAC1
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

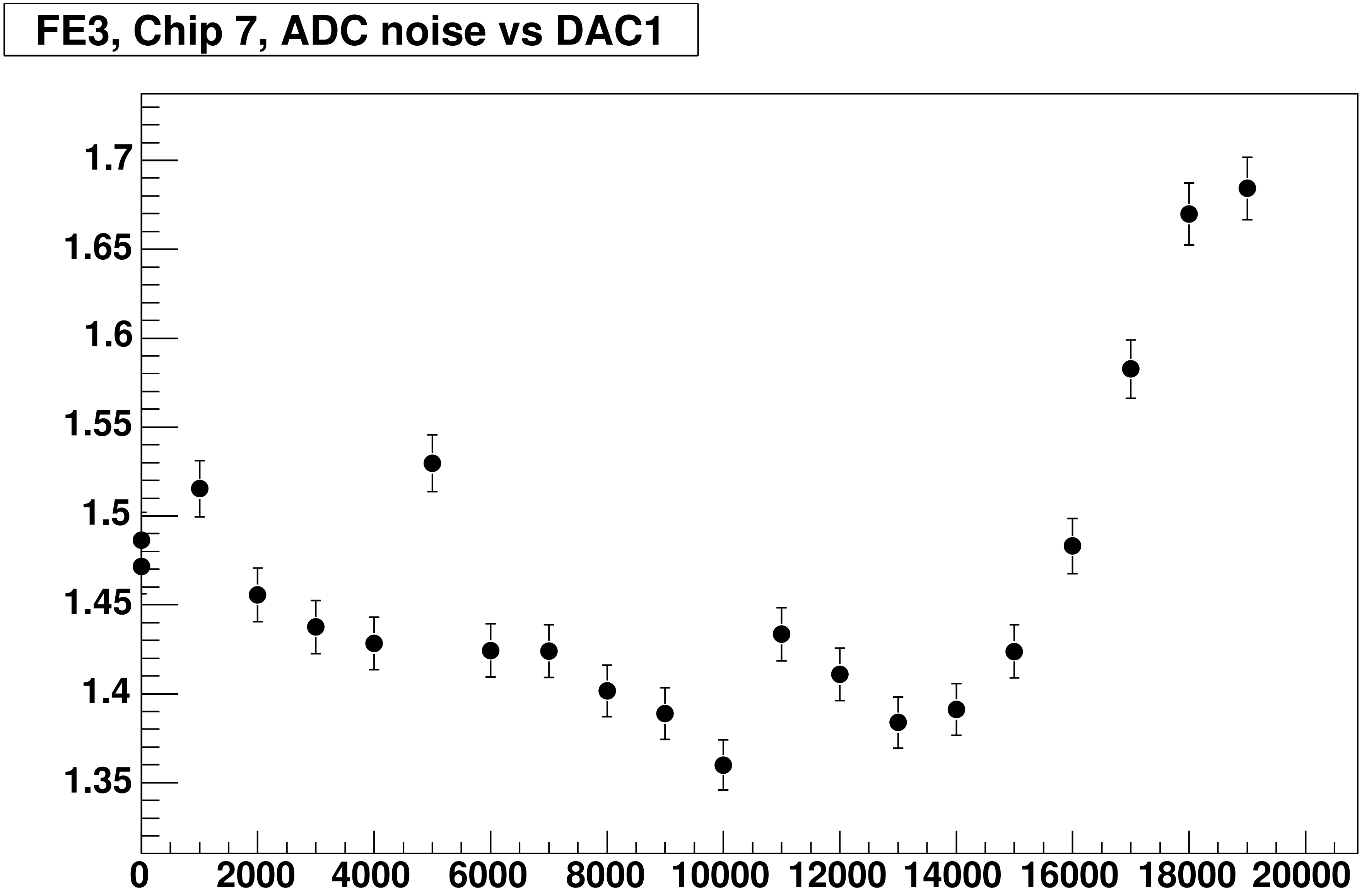

FE3, Chip 7, ADC mean vs DAC0
$\chi^2$ / ndf 314.9 / 17
p0 81.7 ± 0.01049
p1 -1.238e-05 ± 9.211e-07
81.8
81.7
81.6
81.5
81.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

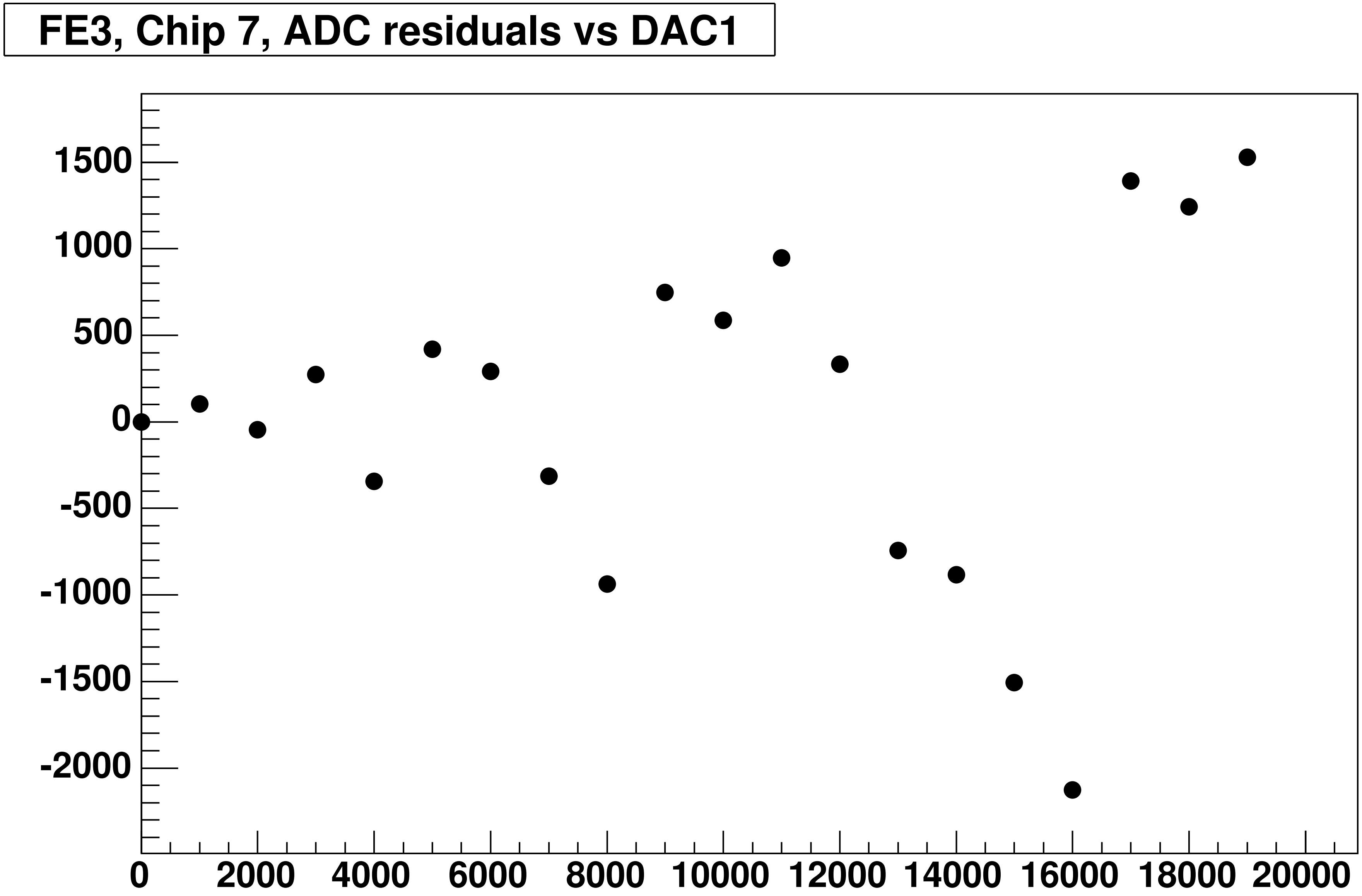

FE3, Chip 7, ADC noise vs DAC0
1.53
1.52
1.51
1.5
1.49
1.48
1.47
1.46
1.45
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

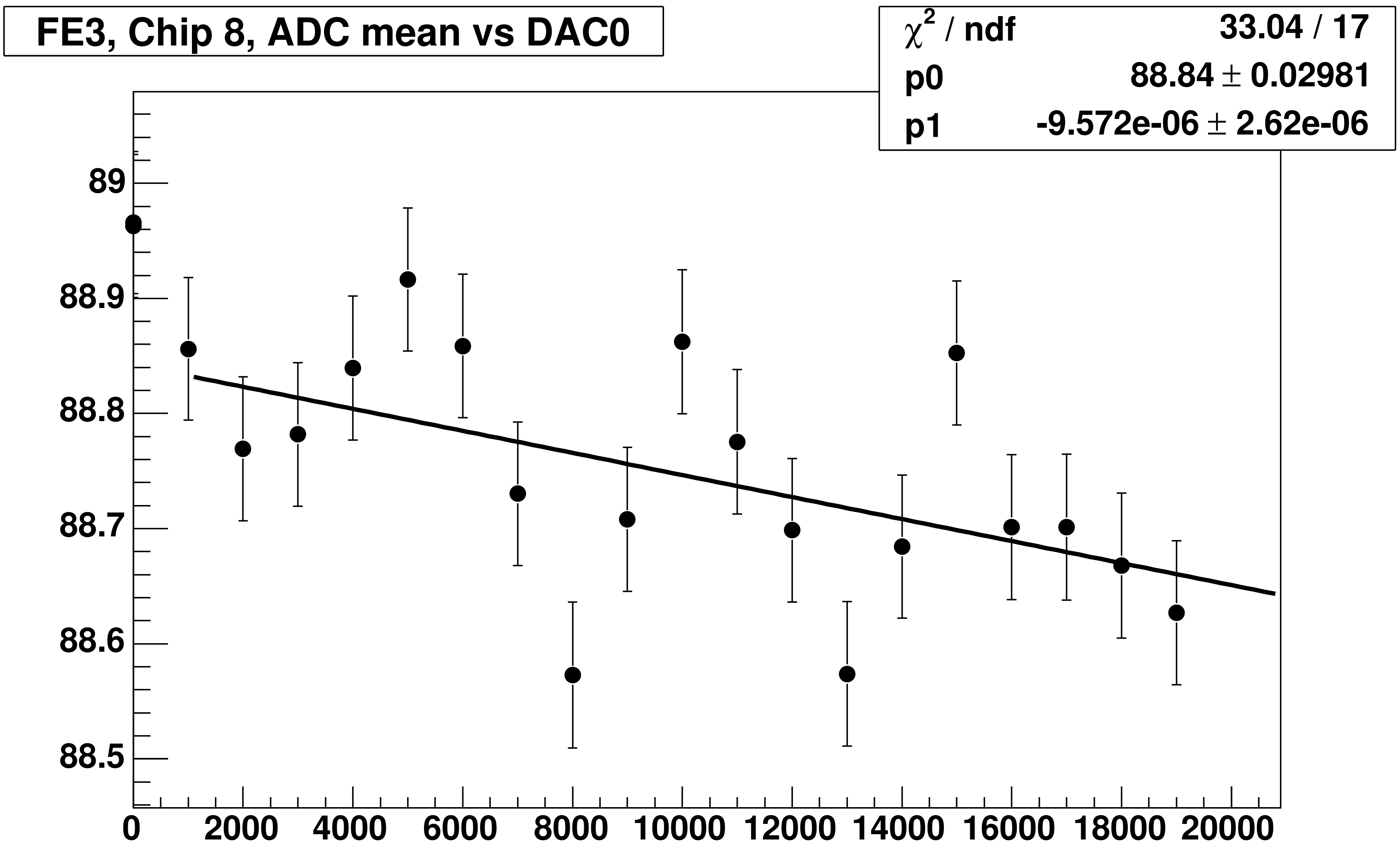


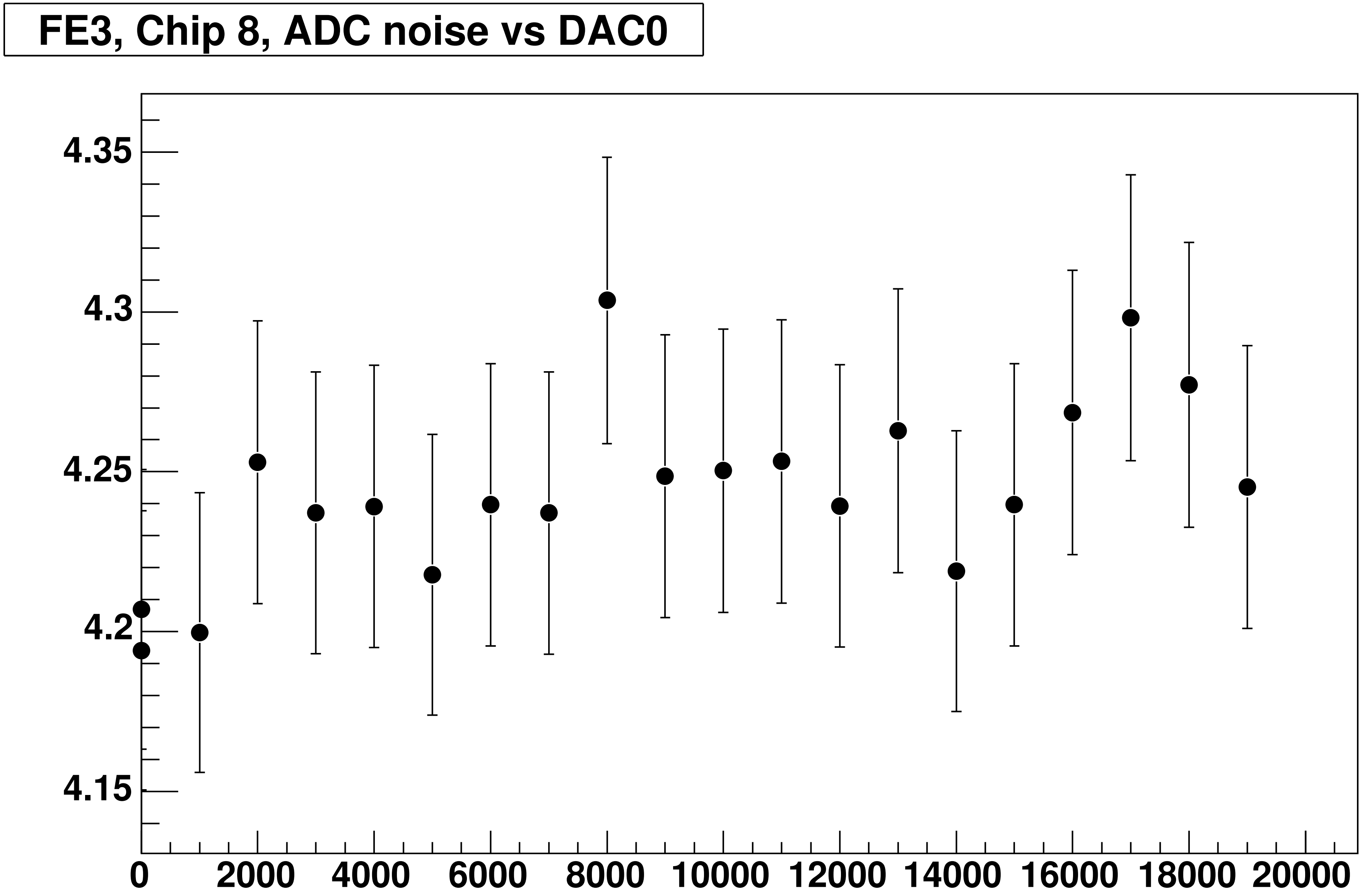
FE3, Chip 7, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

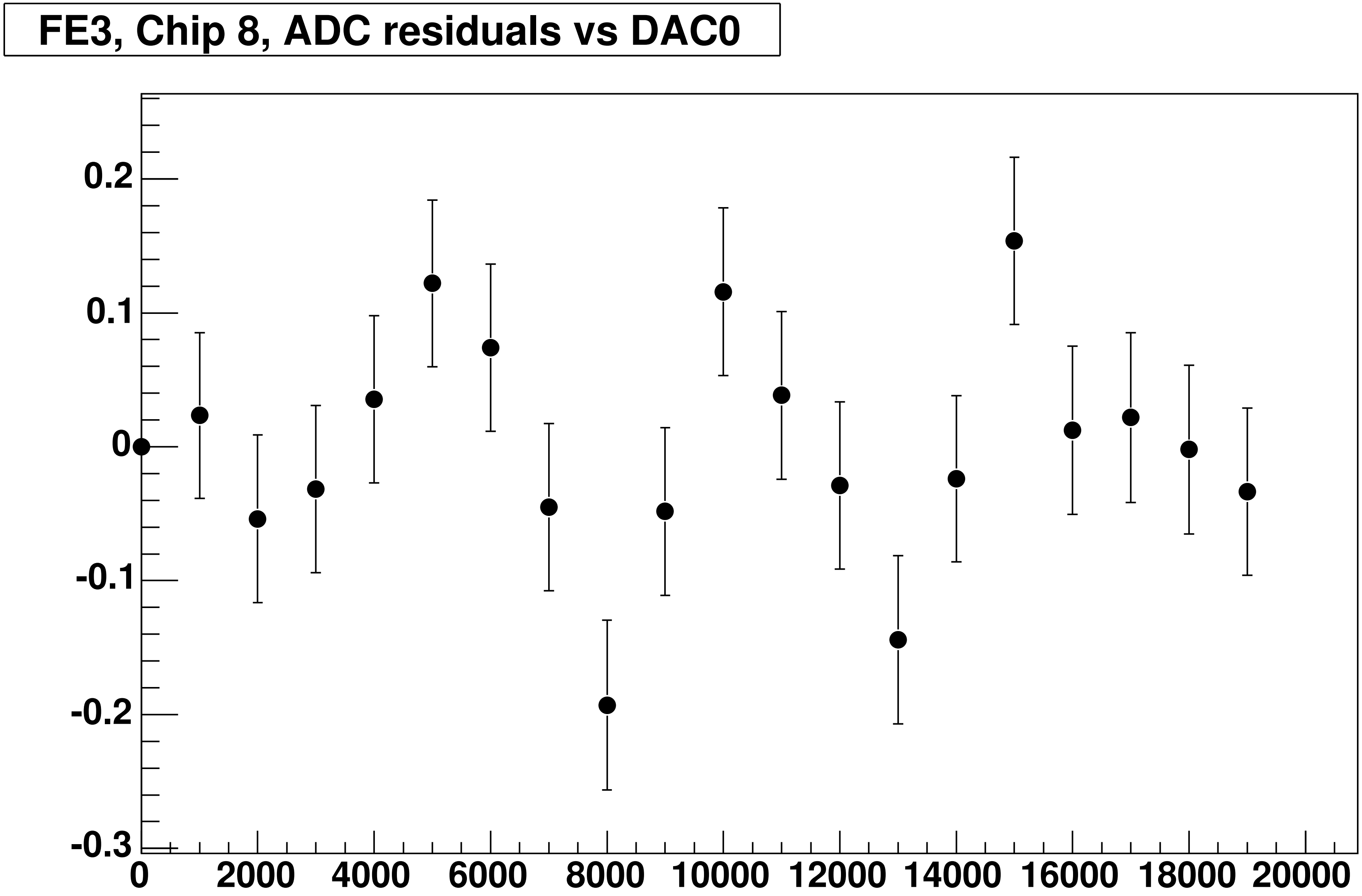

FE3, Chip 7, ADC mean vs DAC1
χ² / ndf 3.549e+10 / 17
p0 -171.5 ± 0.0104
p1 0.6095 ± 9.37e-07
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

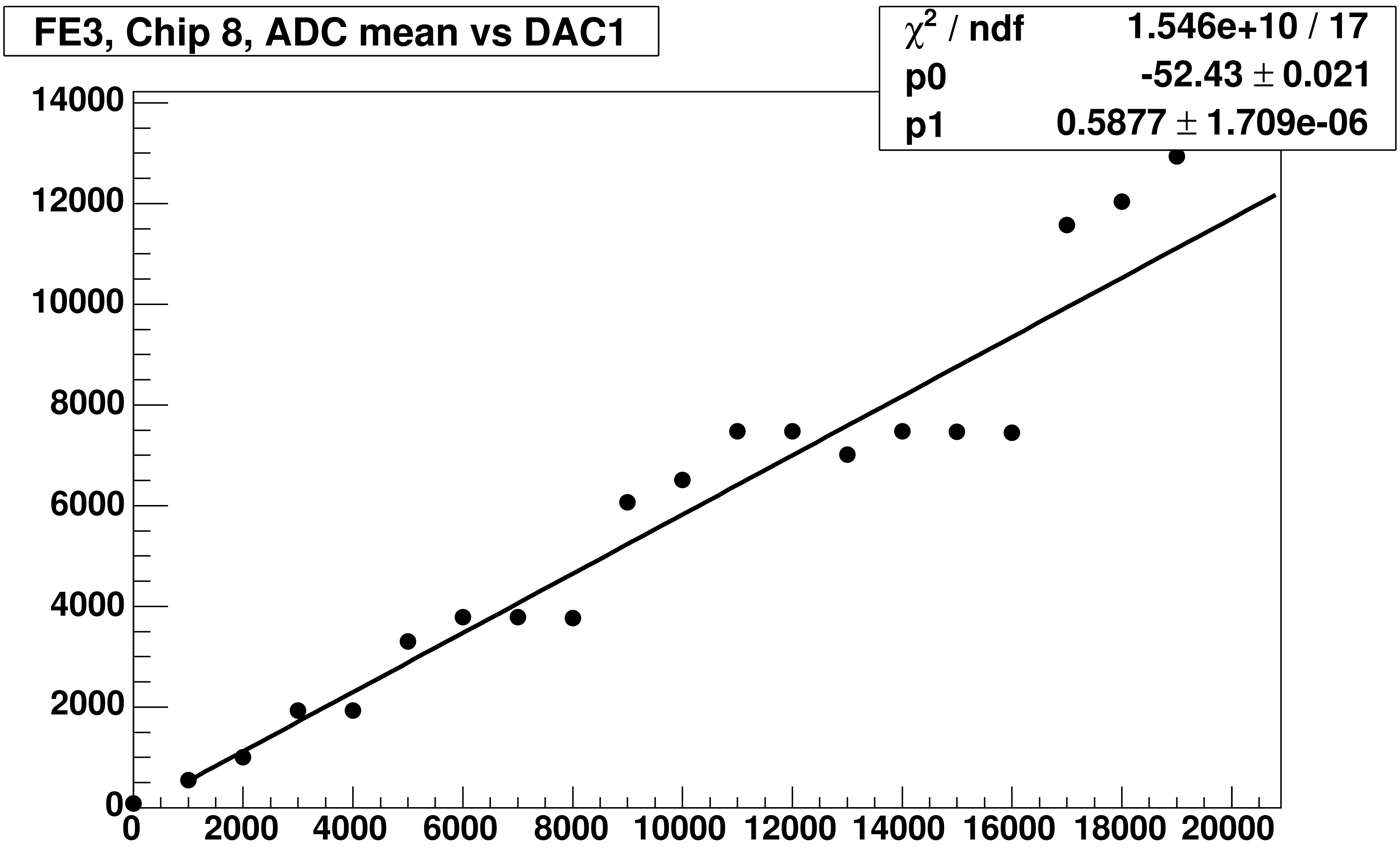

FE3, Chip 7, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

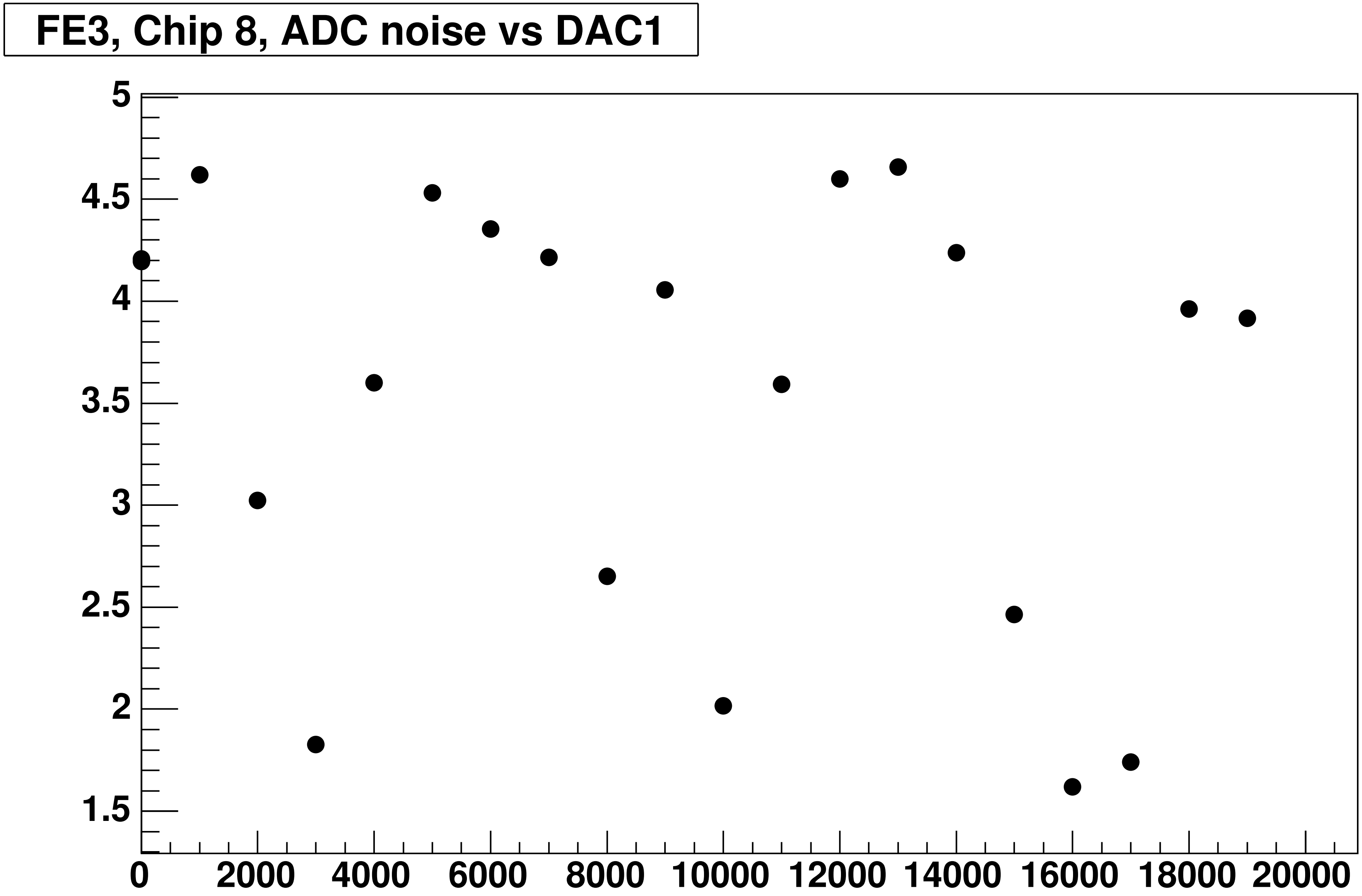

FE3, Chip 7, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE3, Chip 8, ADC mean vs DAC0
$\chi^2$ / ndf 33.04 / 17
p0 88.84 ± 0.02981
p1 -9.572e-06 ± 2.62e-06
89
88.9
88.8
88.7
88.6
88.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

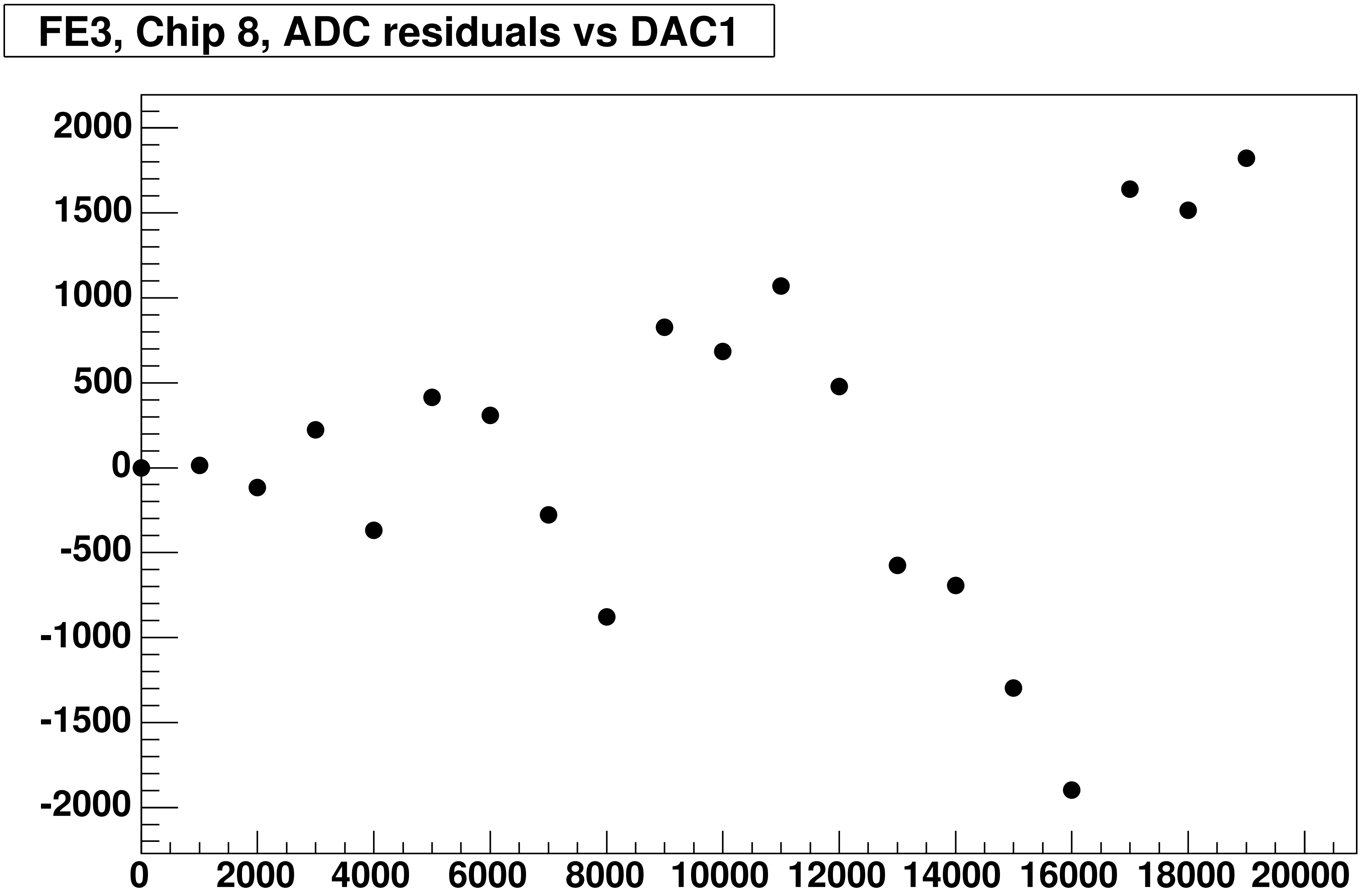

FE3, Chip 8, ADC noise vs DAC0
4.35
4.3
4.25
4.2
4.15
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

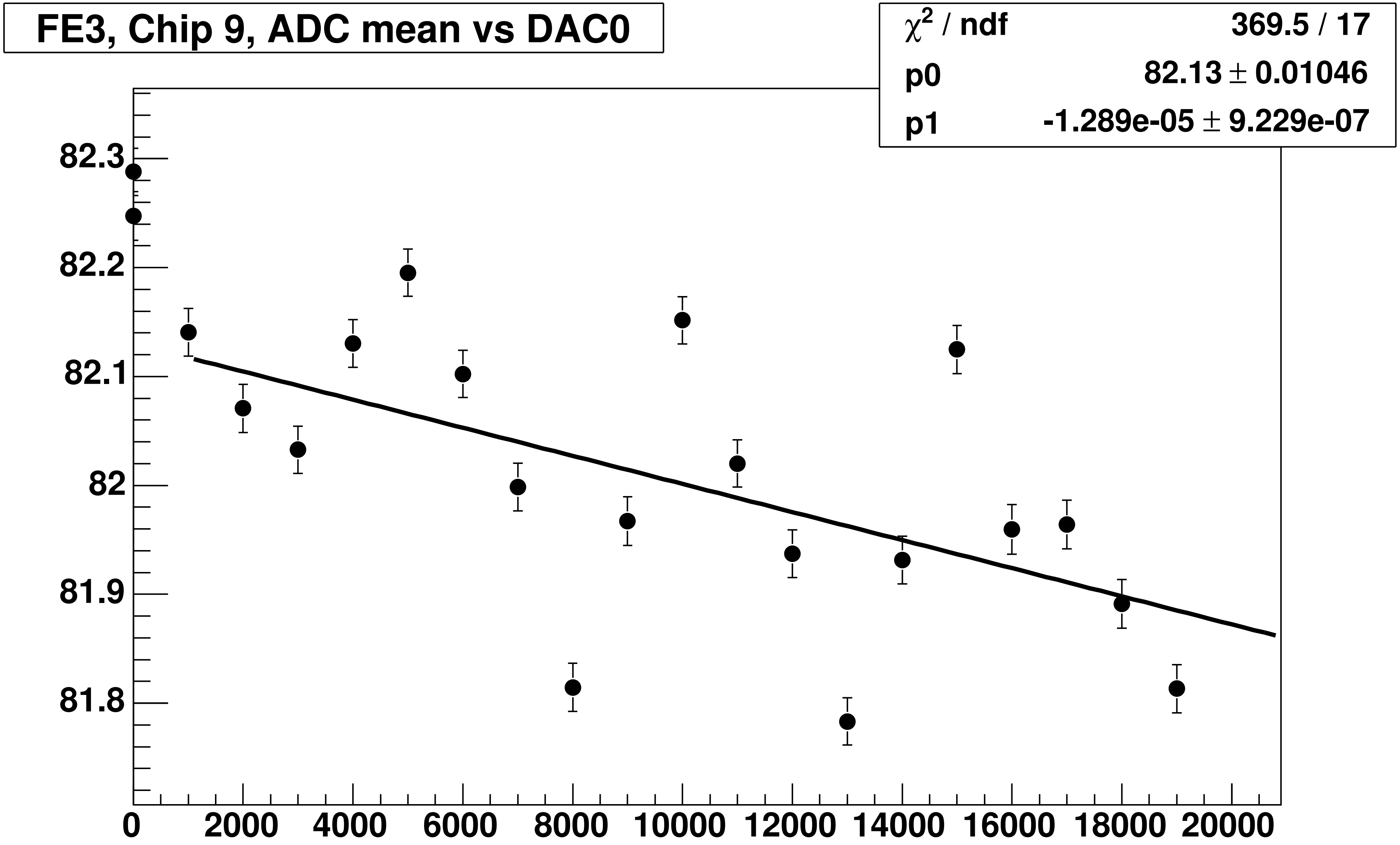

FE3, Chip 8, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
-0.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE3, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 1.546e+10 / 17
p0 -52.43 ± 0.021
p1 0.5877 ± 1.709e-06
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
2000
4000
6000
8000
10000
12000
14000

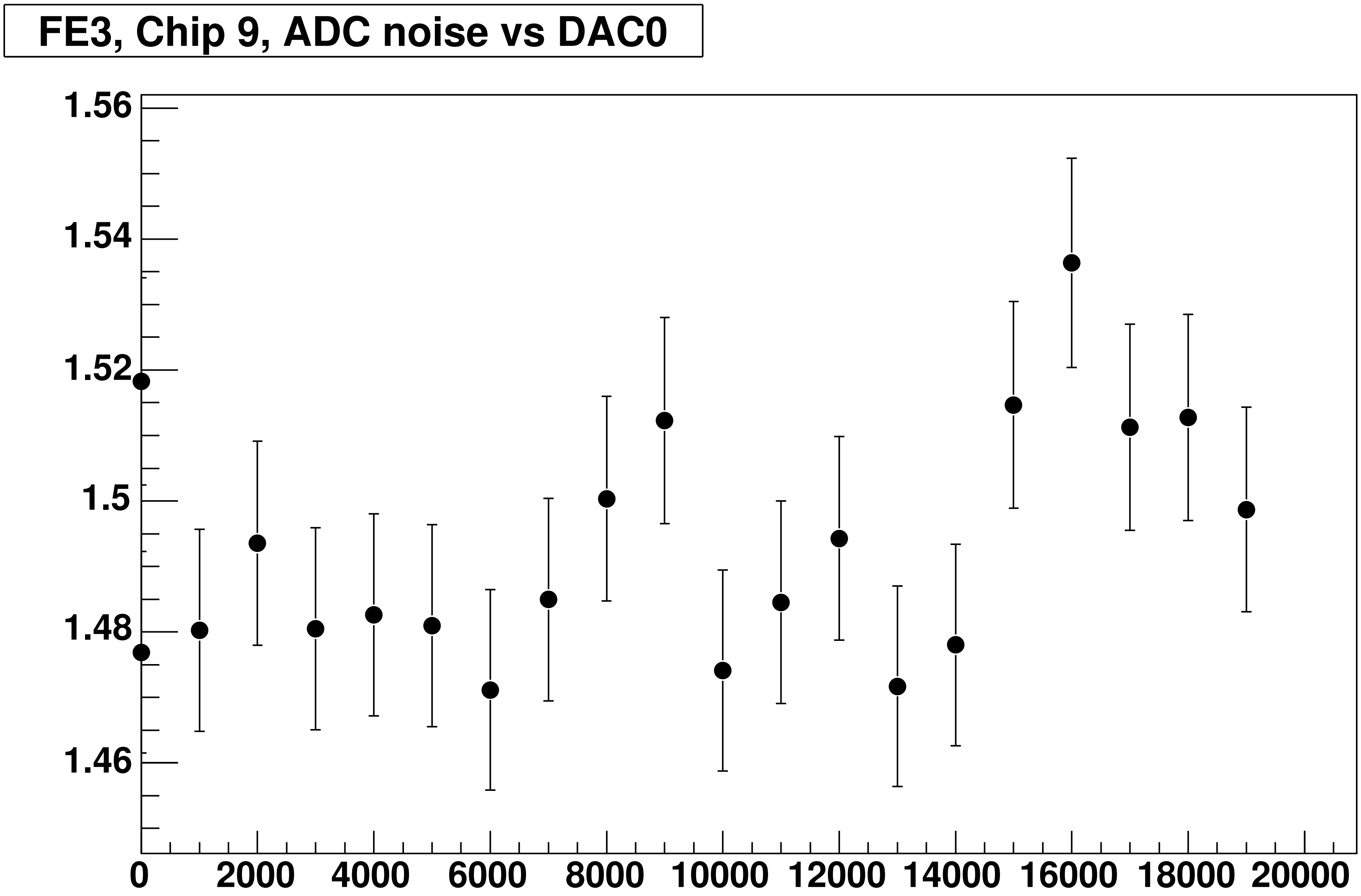


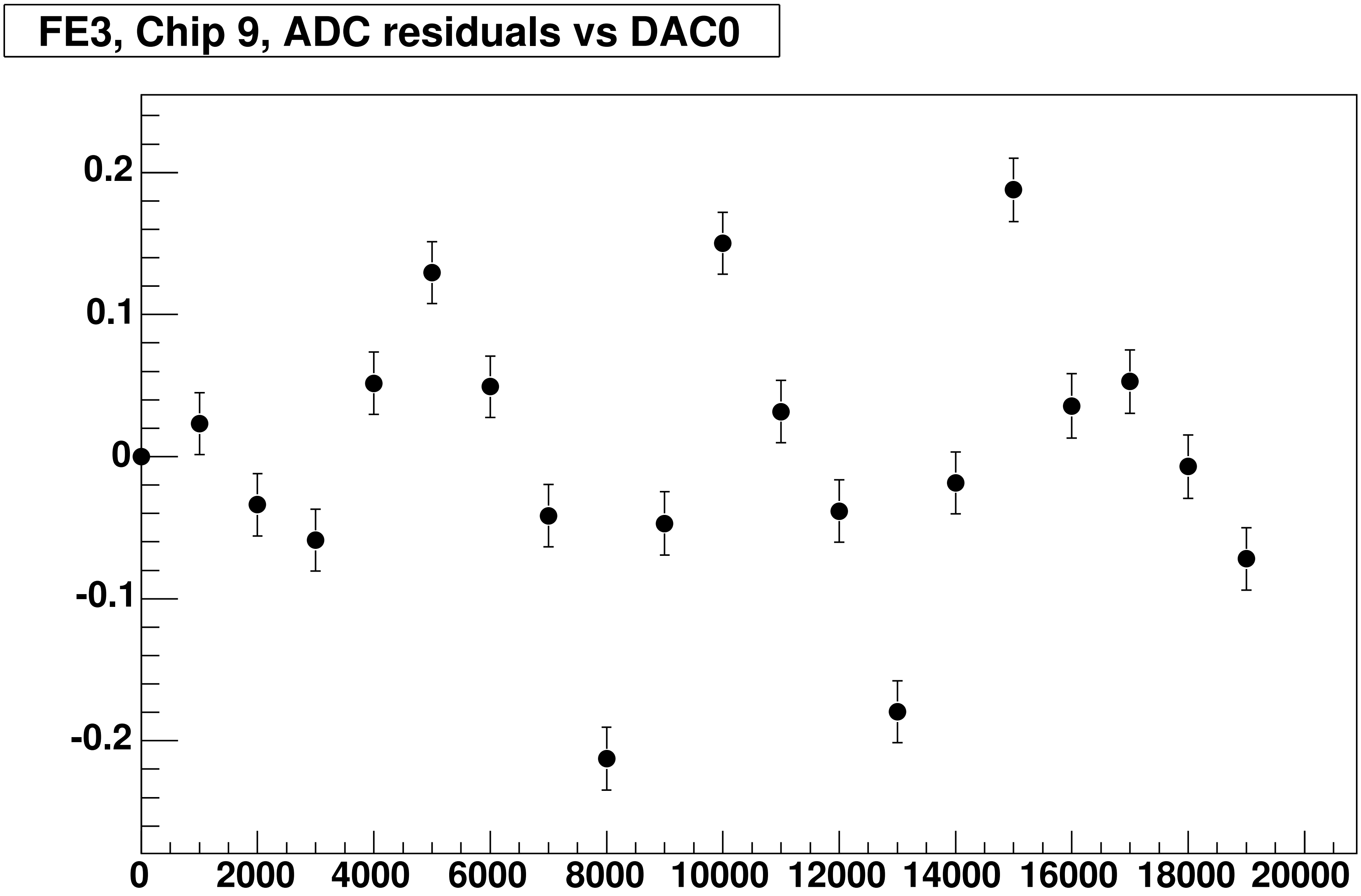
FE3, Chip 8, ADC noise vs DAC1
5
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

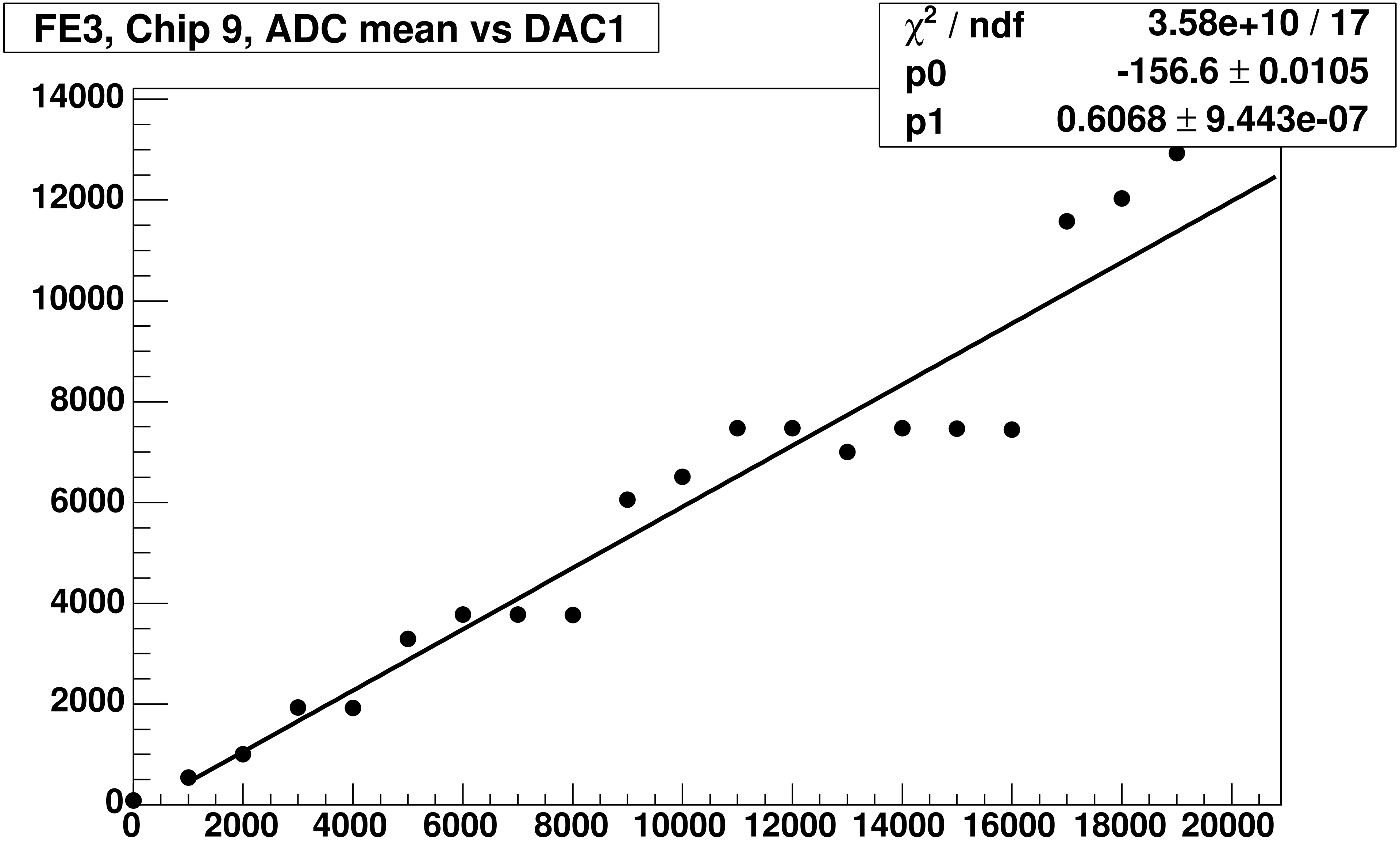

FE3, Chip 8, ADC residuals vs DAC1
2000
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

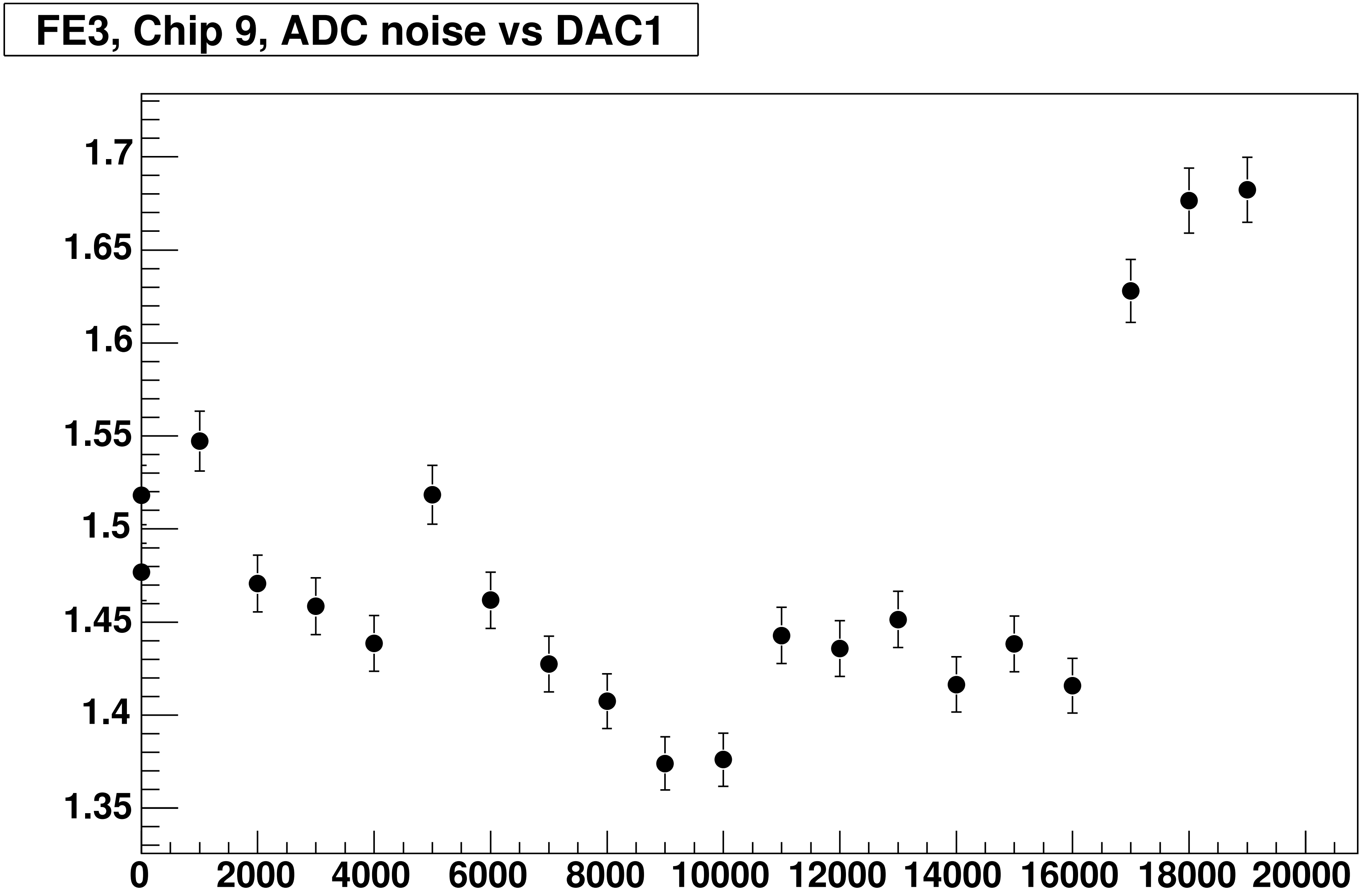


FE3, Chip 9, ADC mean vs DAC0
$\chi^2$ / ndf 369.5 / 17
p0 82.13 ± 0.01046
p1 -1.289e-05 ± 9.229e-07
82.3
82.2
82.1
82
81.9
81.8
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

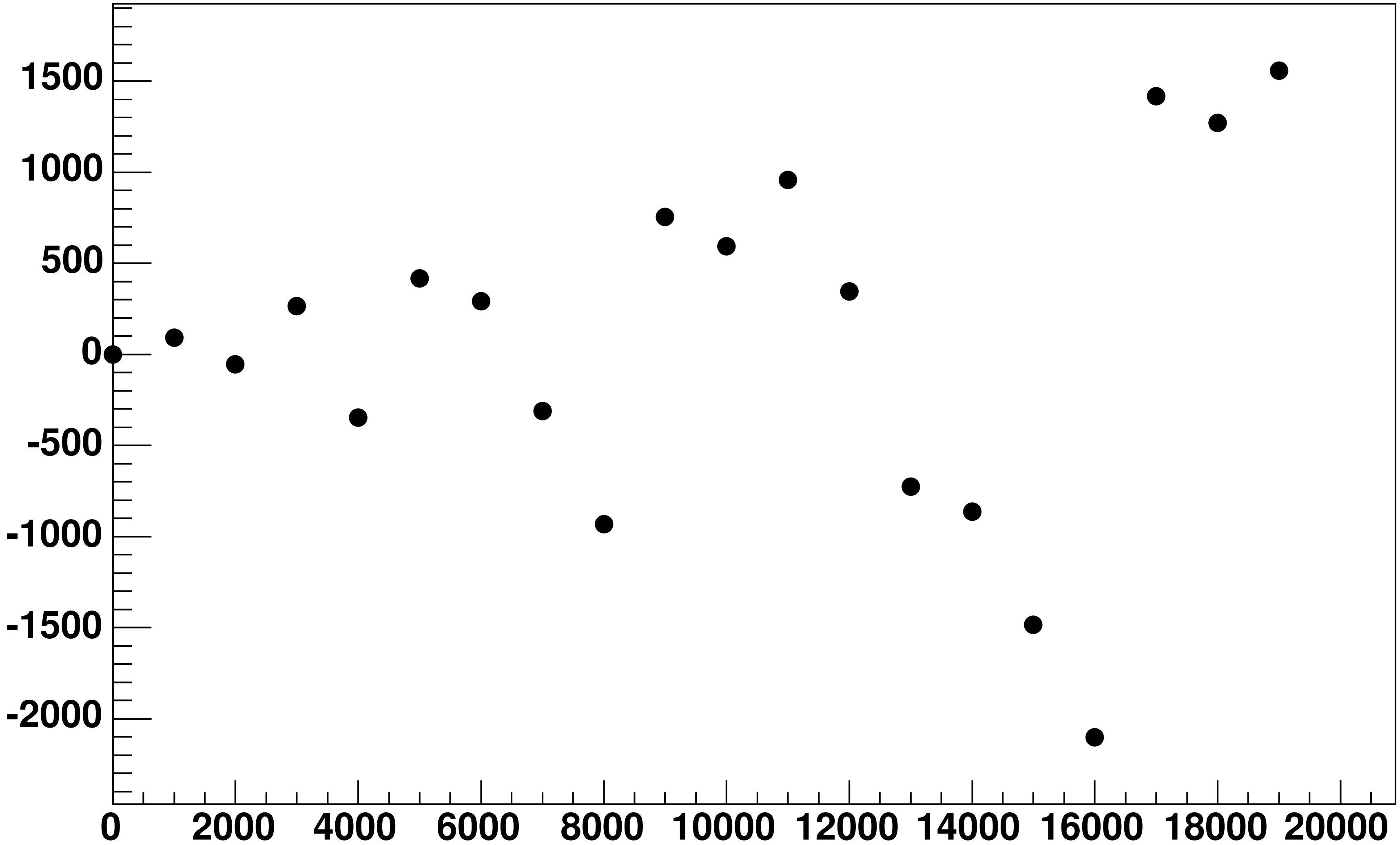

FE3, Chip 9, ADC noise vs DAC0
1.56
1.54
1.52
1.5
1.48
1.46
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

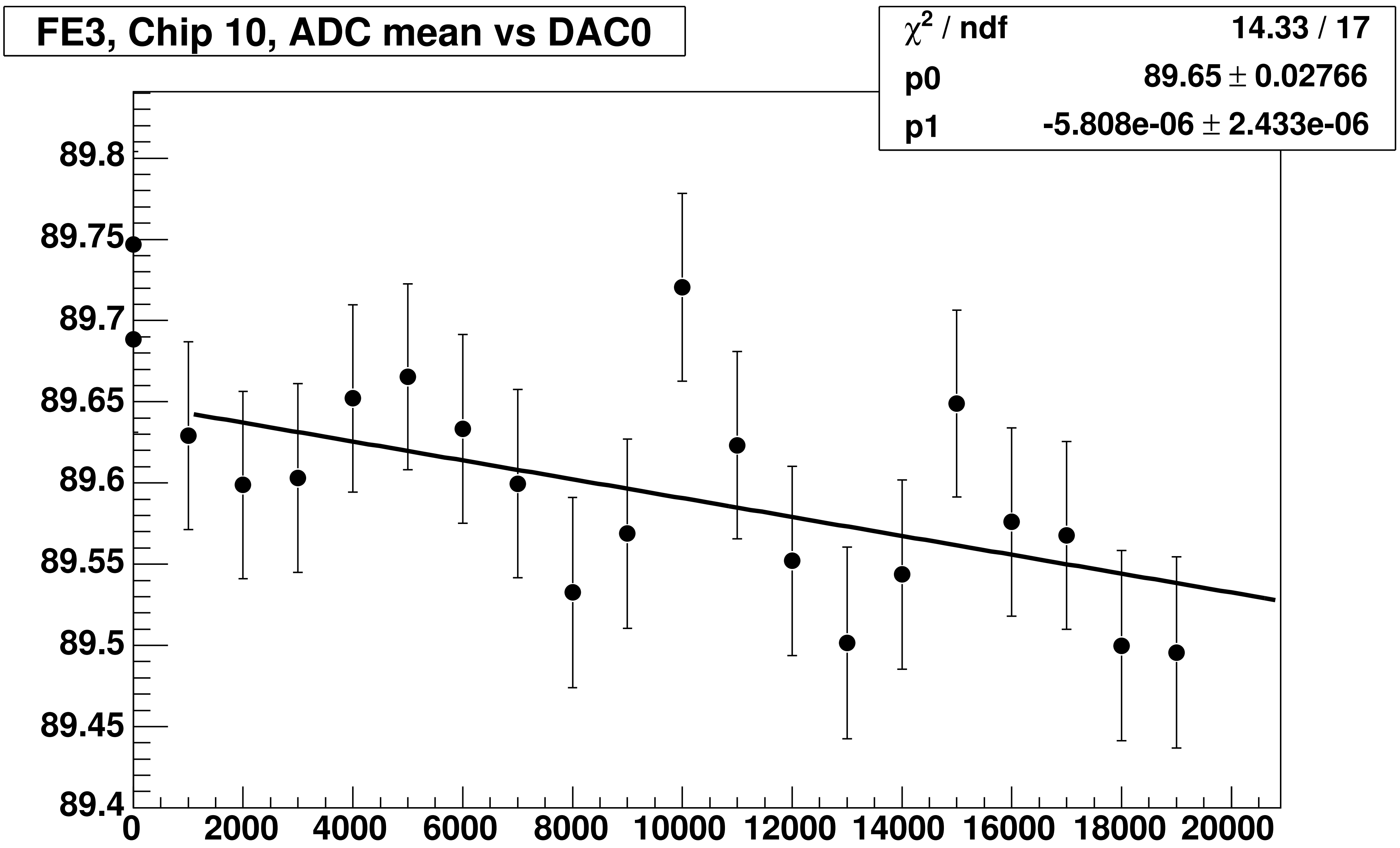

FE3, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

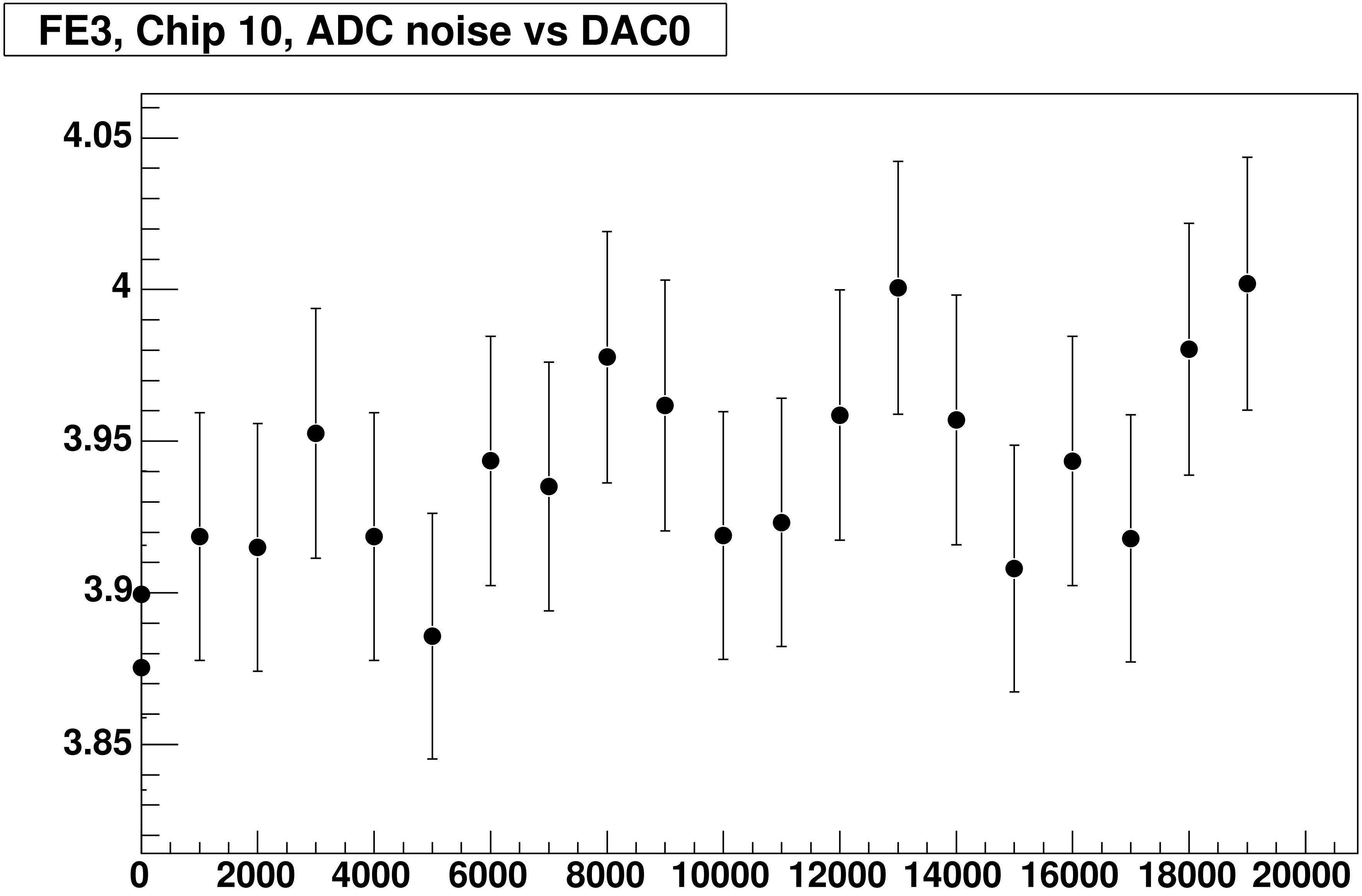

FE3, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 3.58e+10 / 17
p0 -156.6 ± 0.0105
p1 0.6068 ± 9.443e-07
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

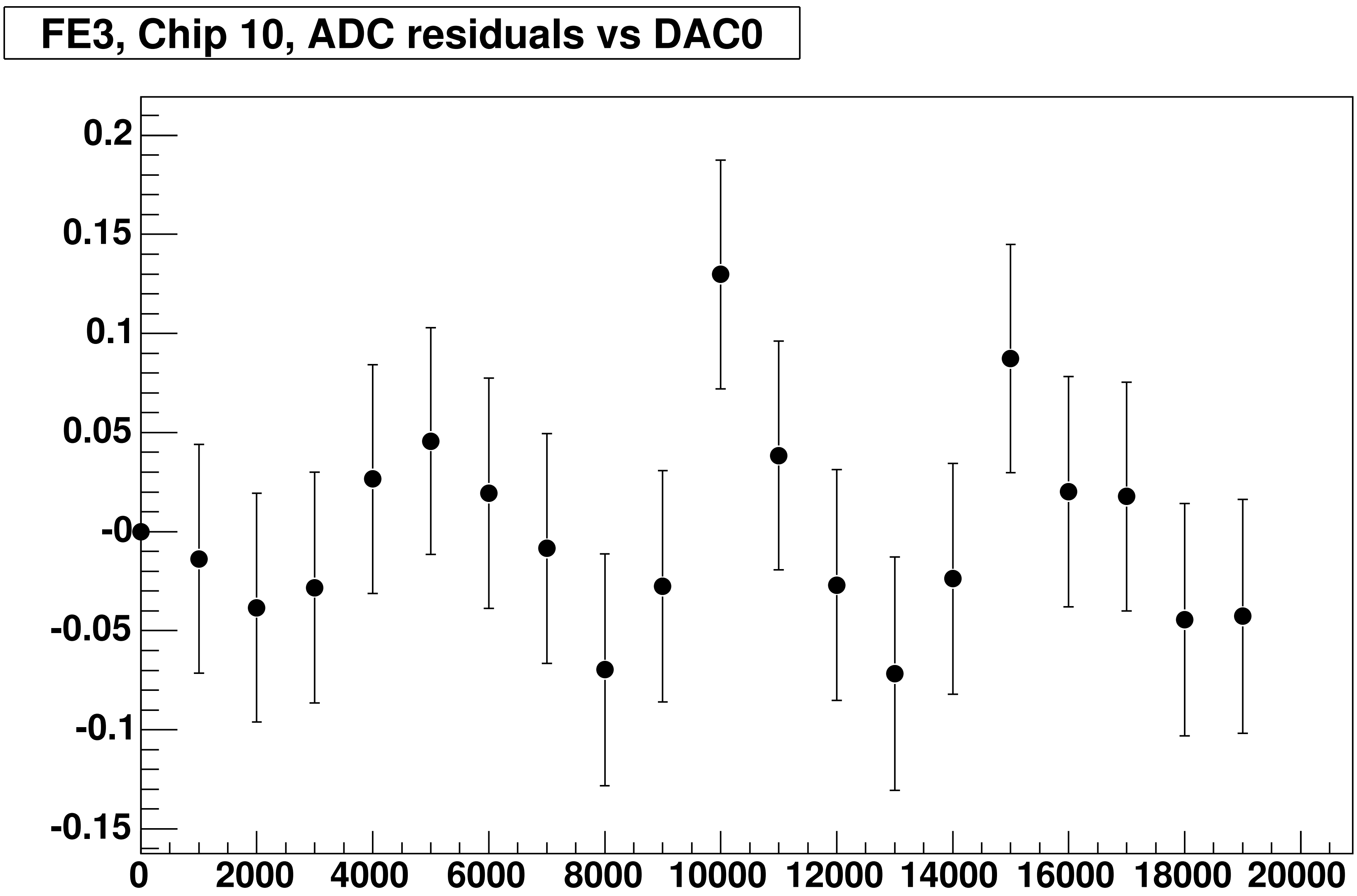

FE3, Chip 9, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

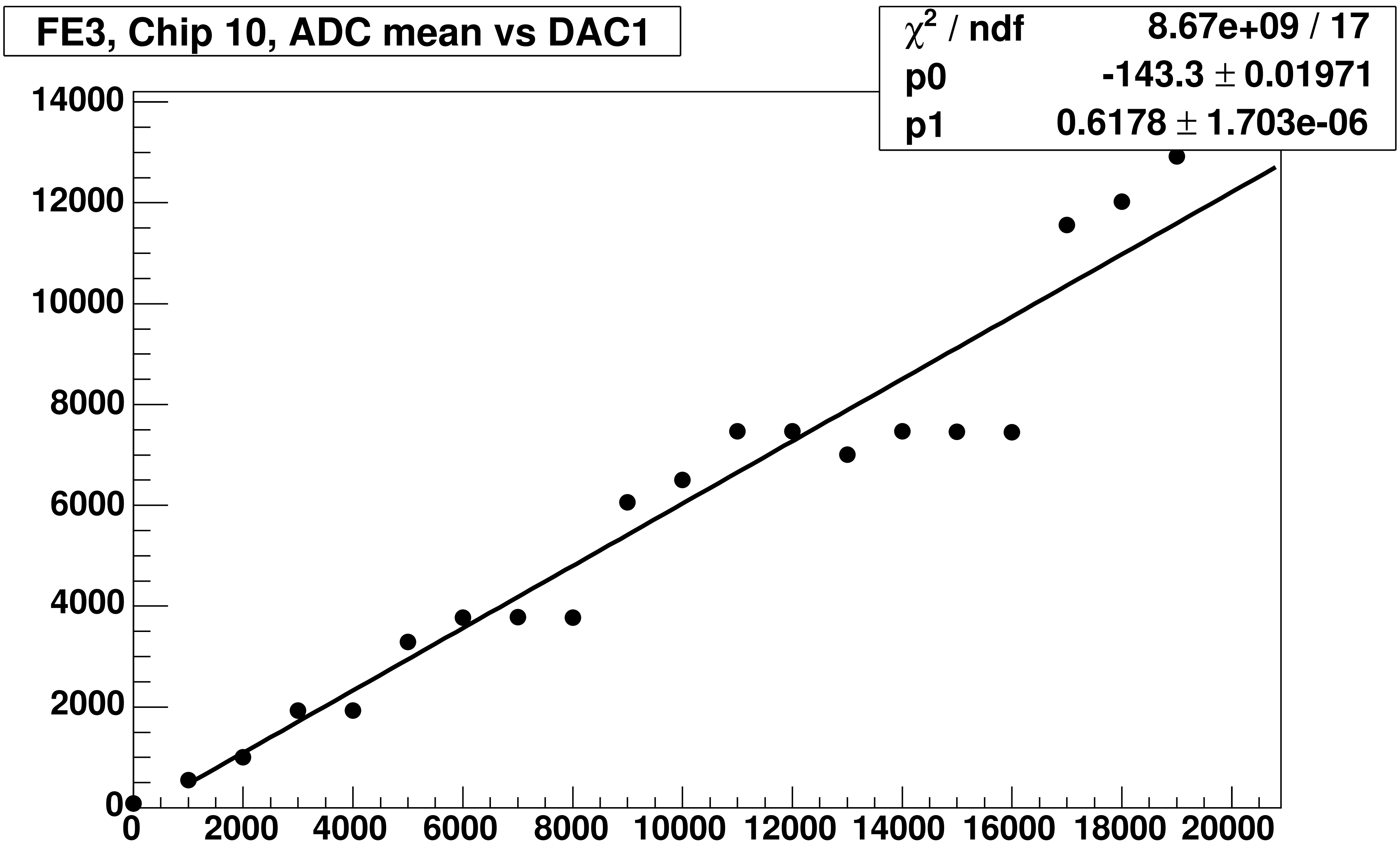
FE3, Chip 9, ADC residuals vs DAC1



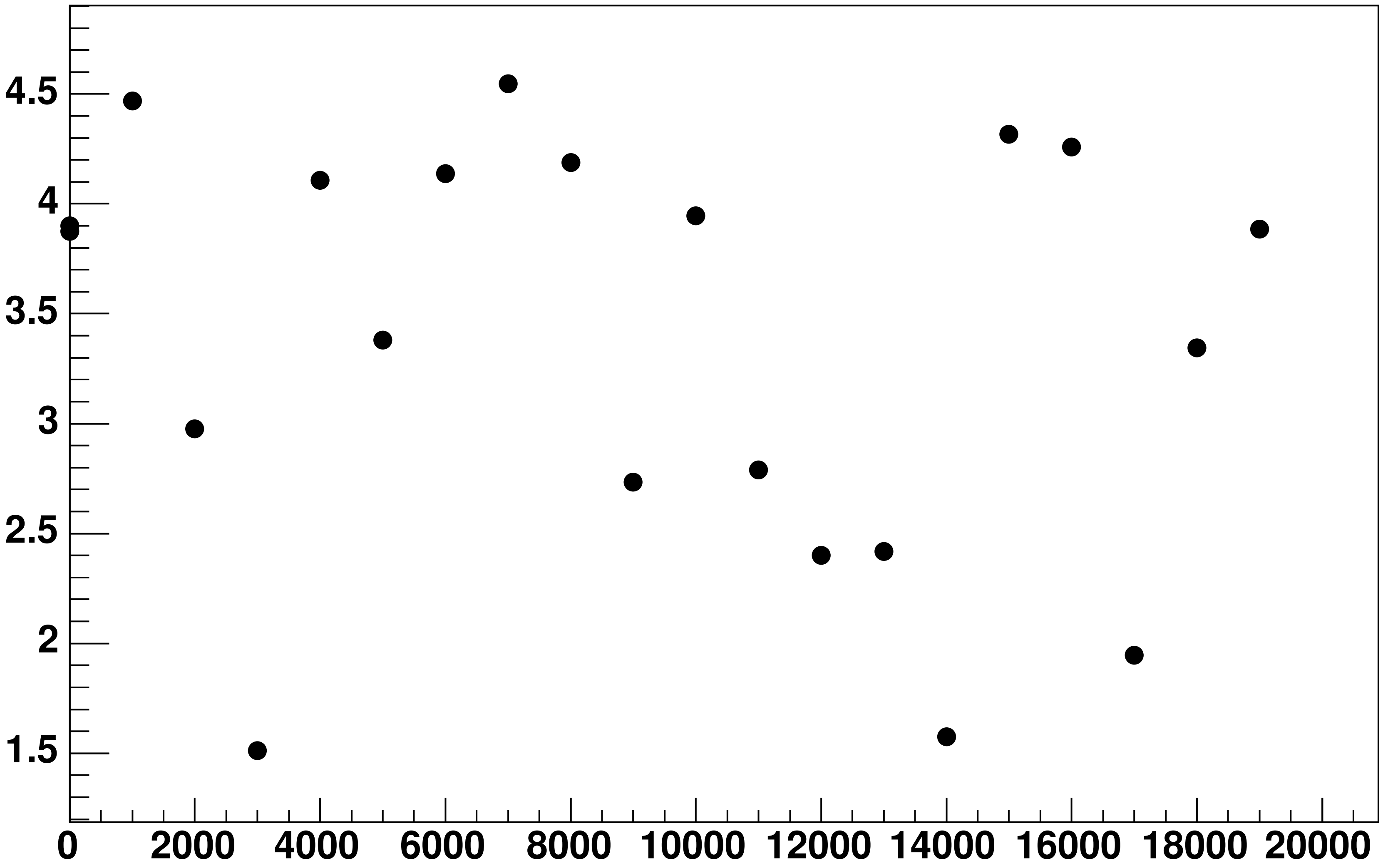

FE3, Chip 10, ADC mean vs DAC0
$\chi^2$ / ndf 14.33 / 17
p0 89.65 ± 0.02766
p1 -5.808e-06 ± 2.433e-06
89.8
89.75
89.7
89.65
89.6
89.55
89.5
89.45
89.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

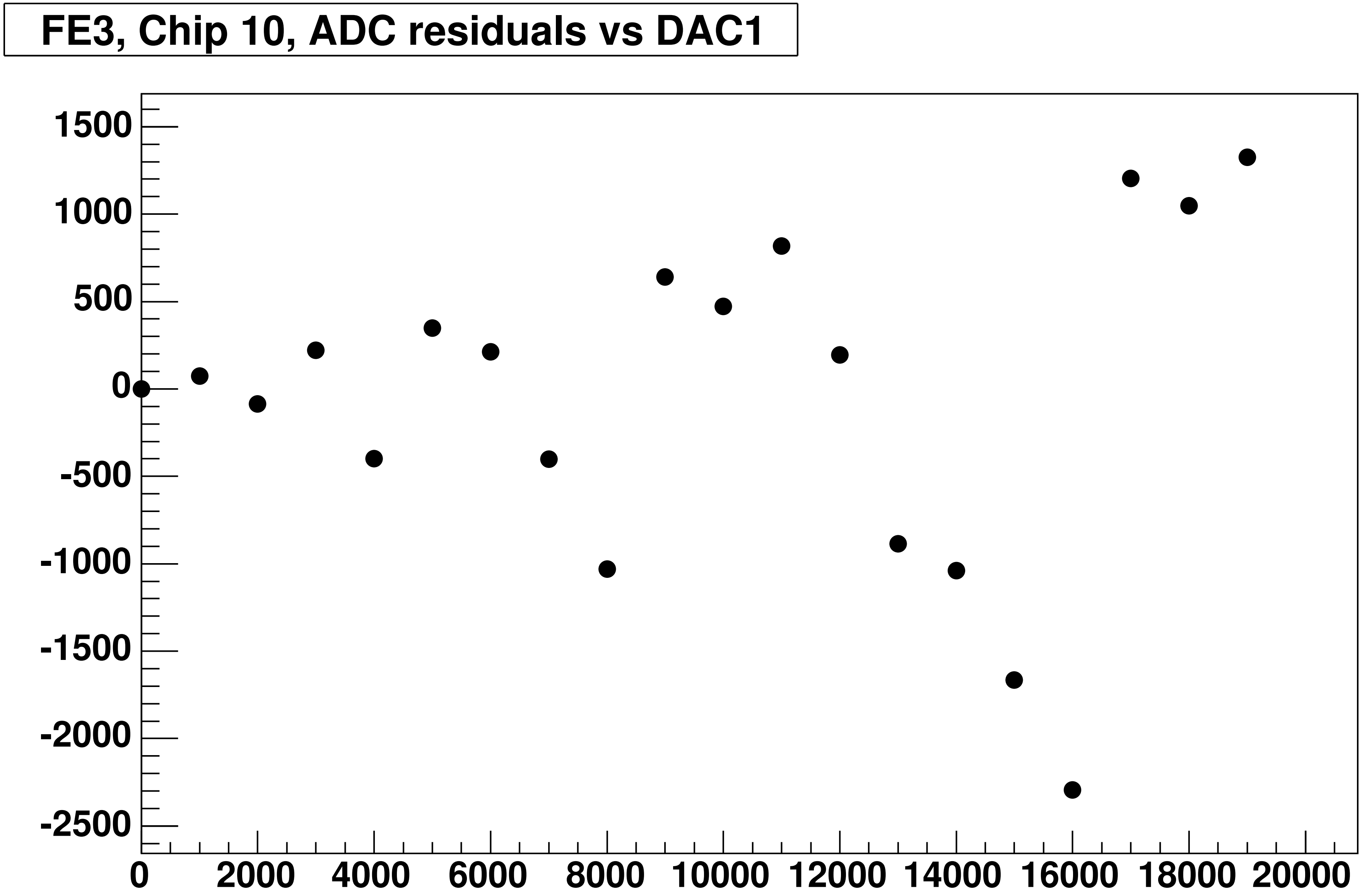

FE3, Chip 10, ADC noise vs DAC0
4.05
4
3.95
3.9
3.85
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE3, Chip 10, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

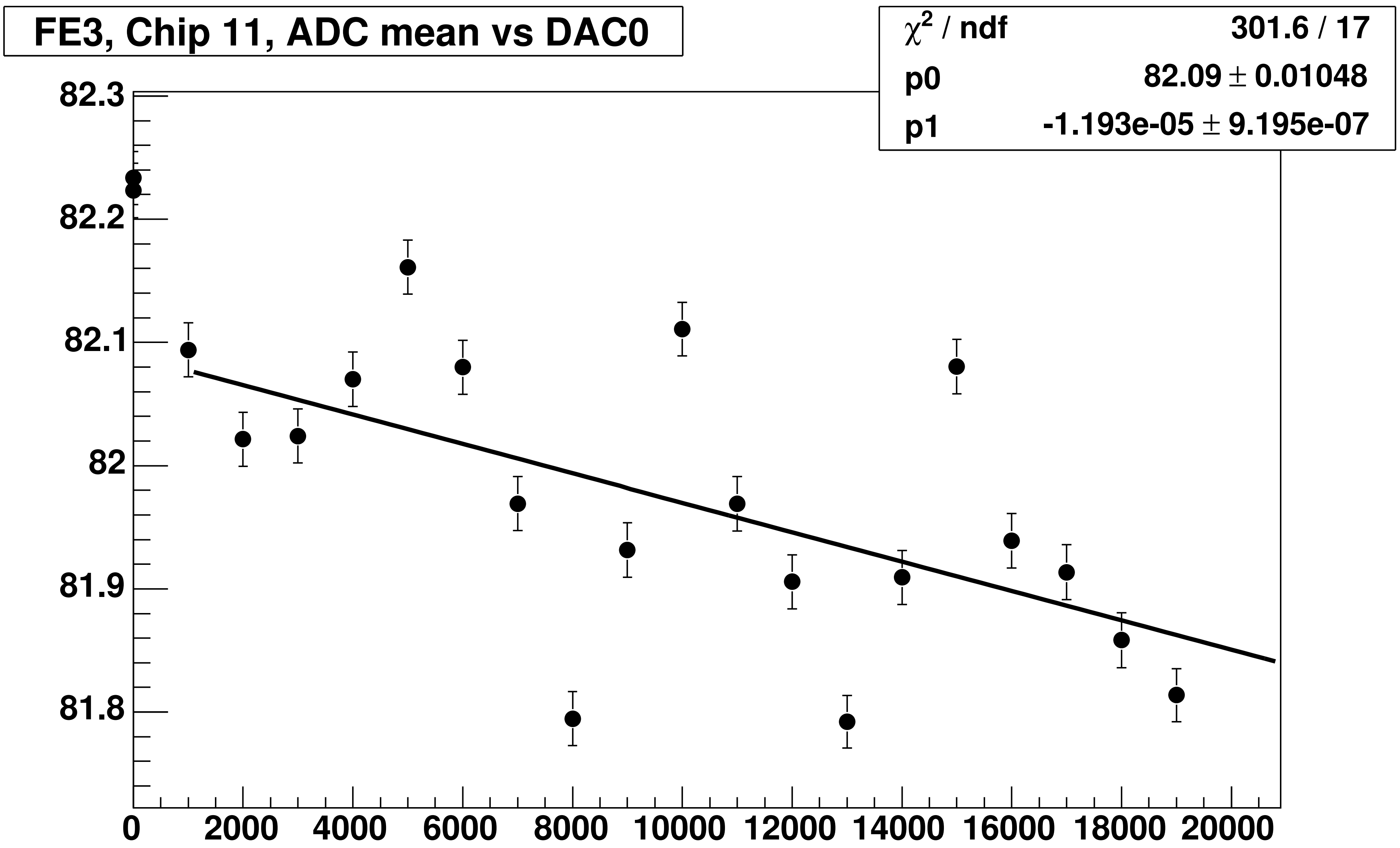

FE3, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 8.67e+09 / 17
p0 -143.3 ± 0.01971
p1 0.6178 ± 1.703e-06
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

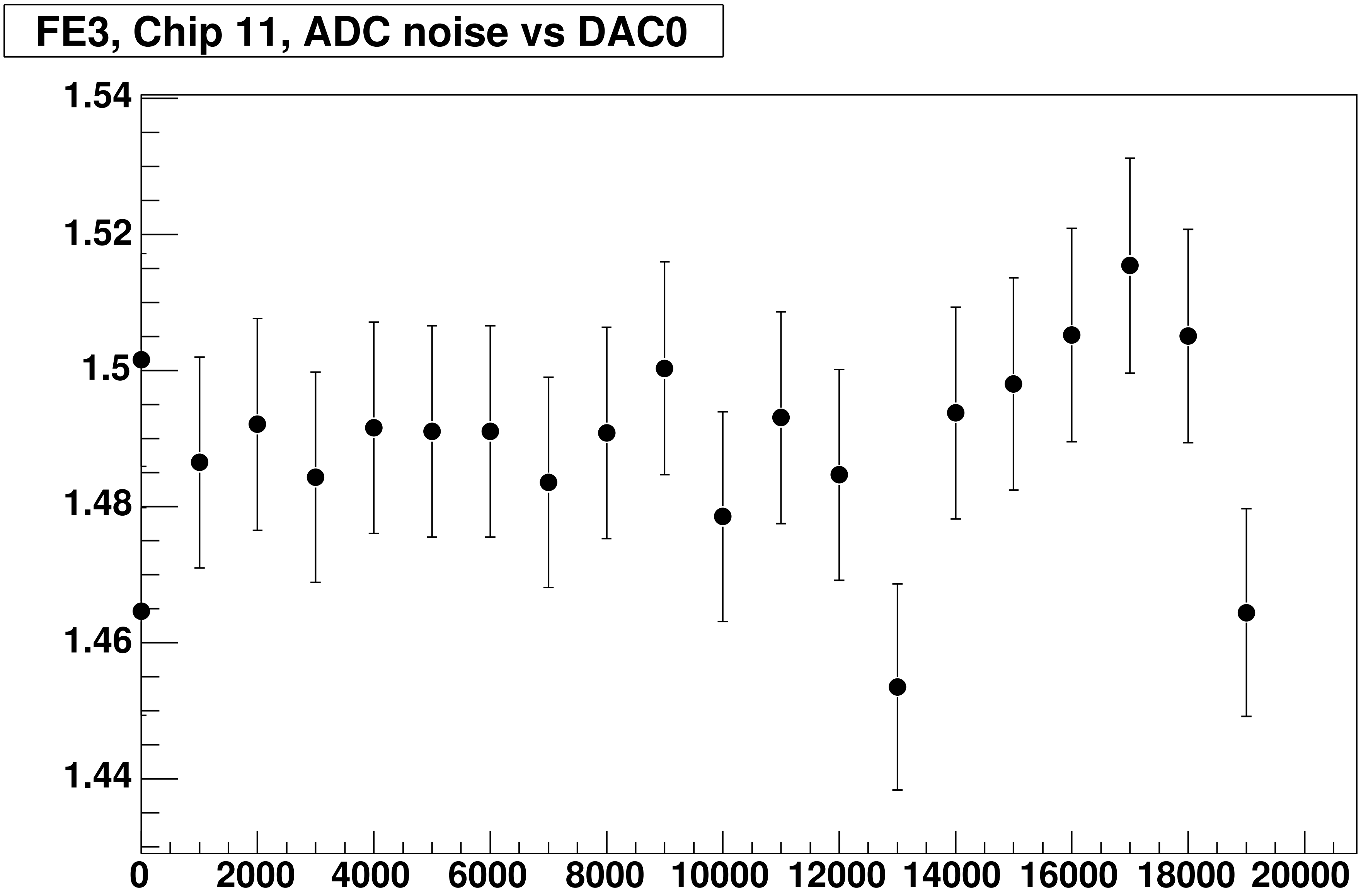
FE3, Chip 10, ADC noise vs DAC1

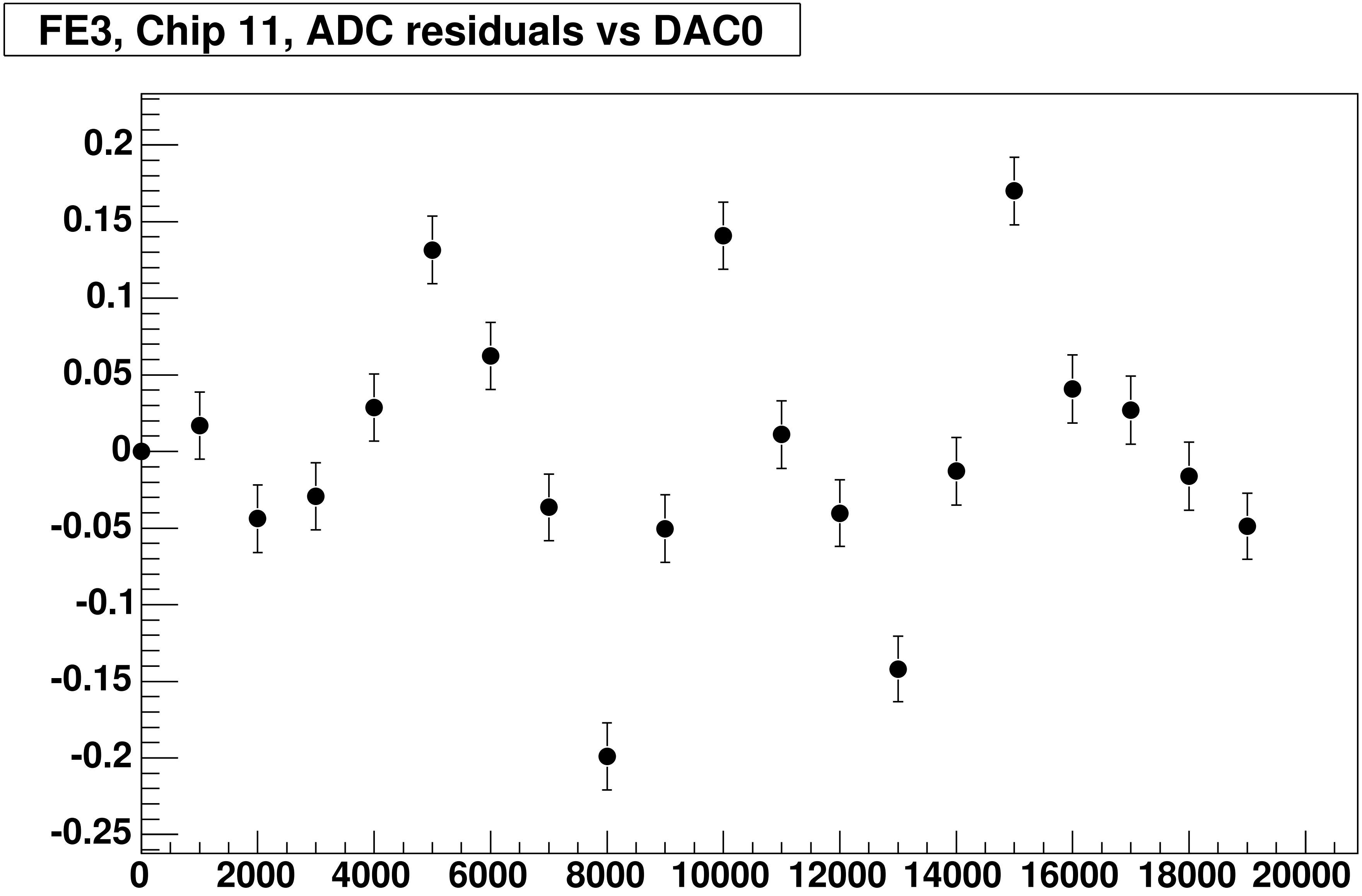


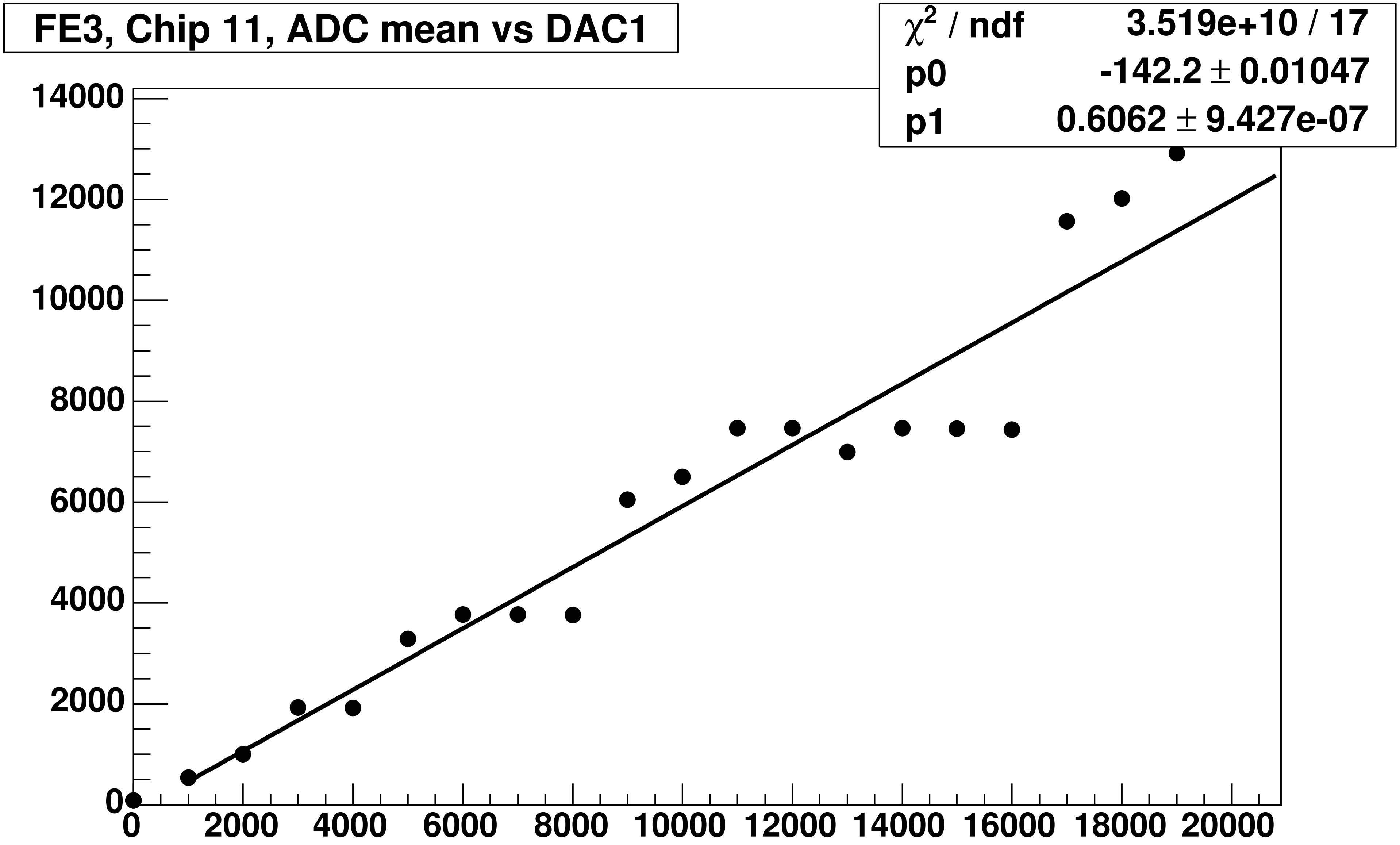


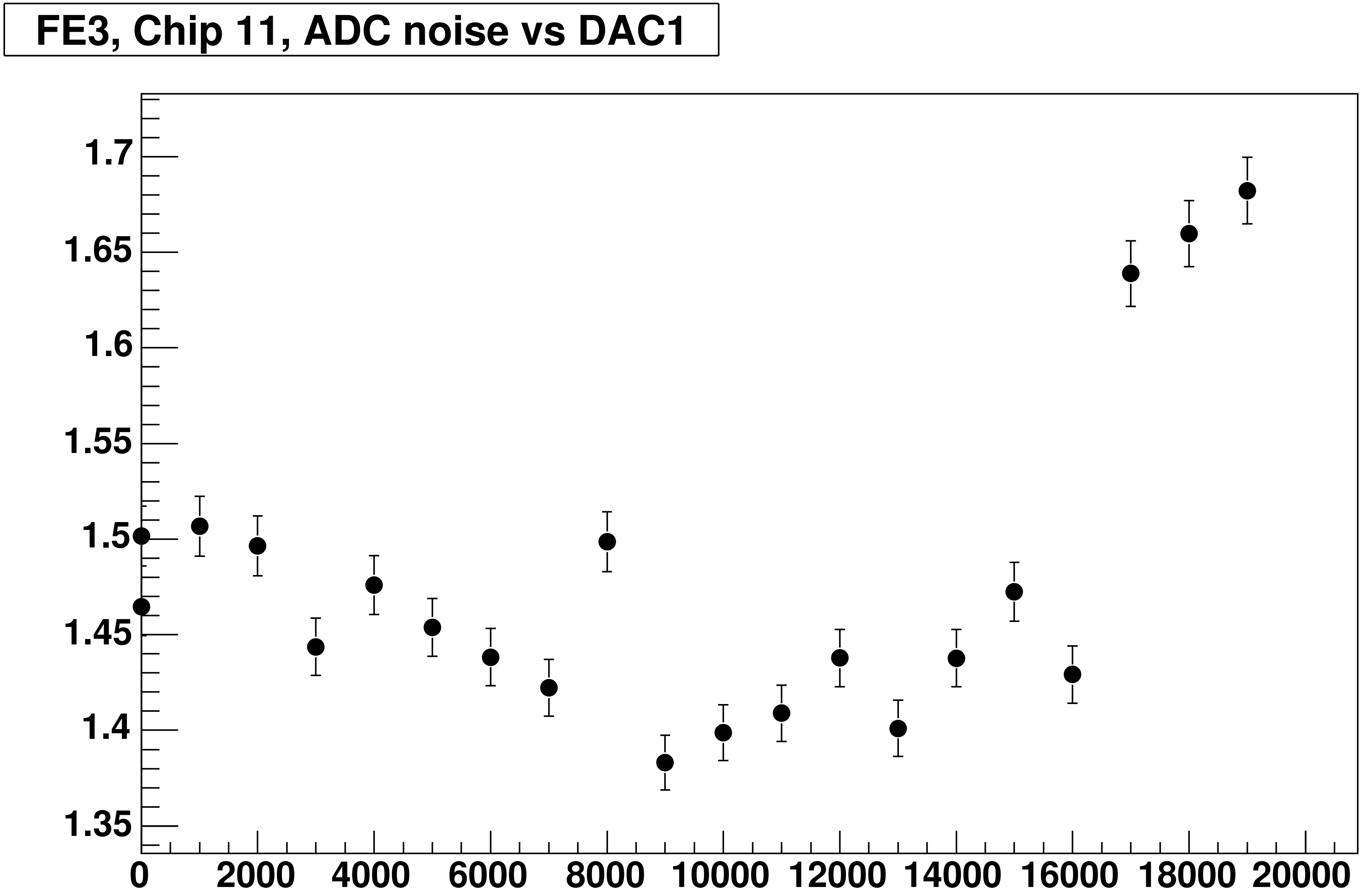
FE3, Chip 10, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

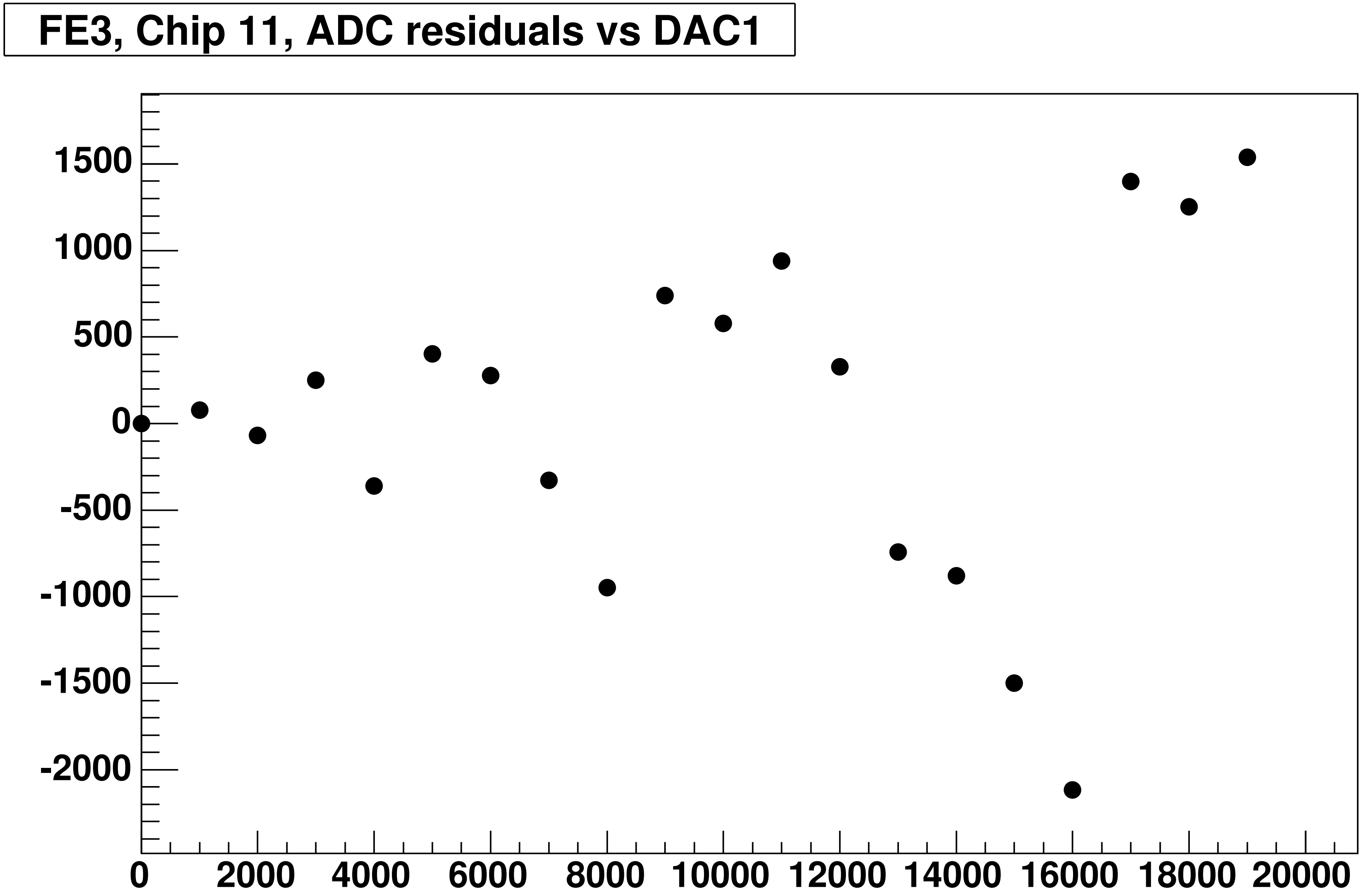

FE3, Chip 11, ADC mean vs DAC0
$\chi^2$ / ndf 301.6 / 17
p0 82.09 ± 0.01048
p1 -1.193e-05 ± 9.195e-07
82.3
82.2
82.1
82
81.9
81.8
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

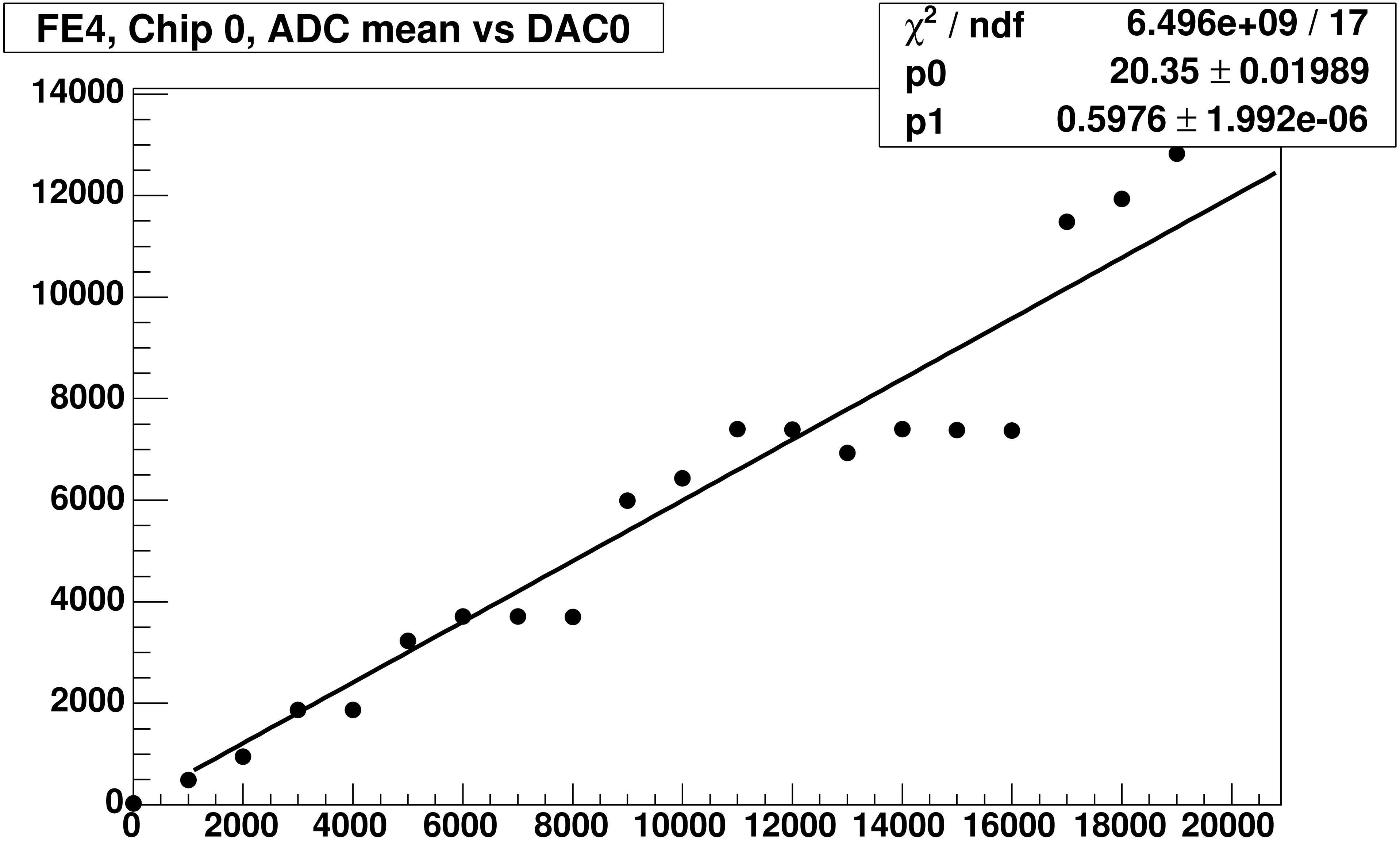

FE3, Chip 11, ADC noise vs DAC0
1.54
1.52
1.5
1.48
1.46
1.44
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

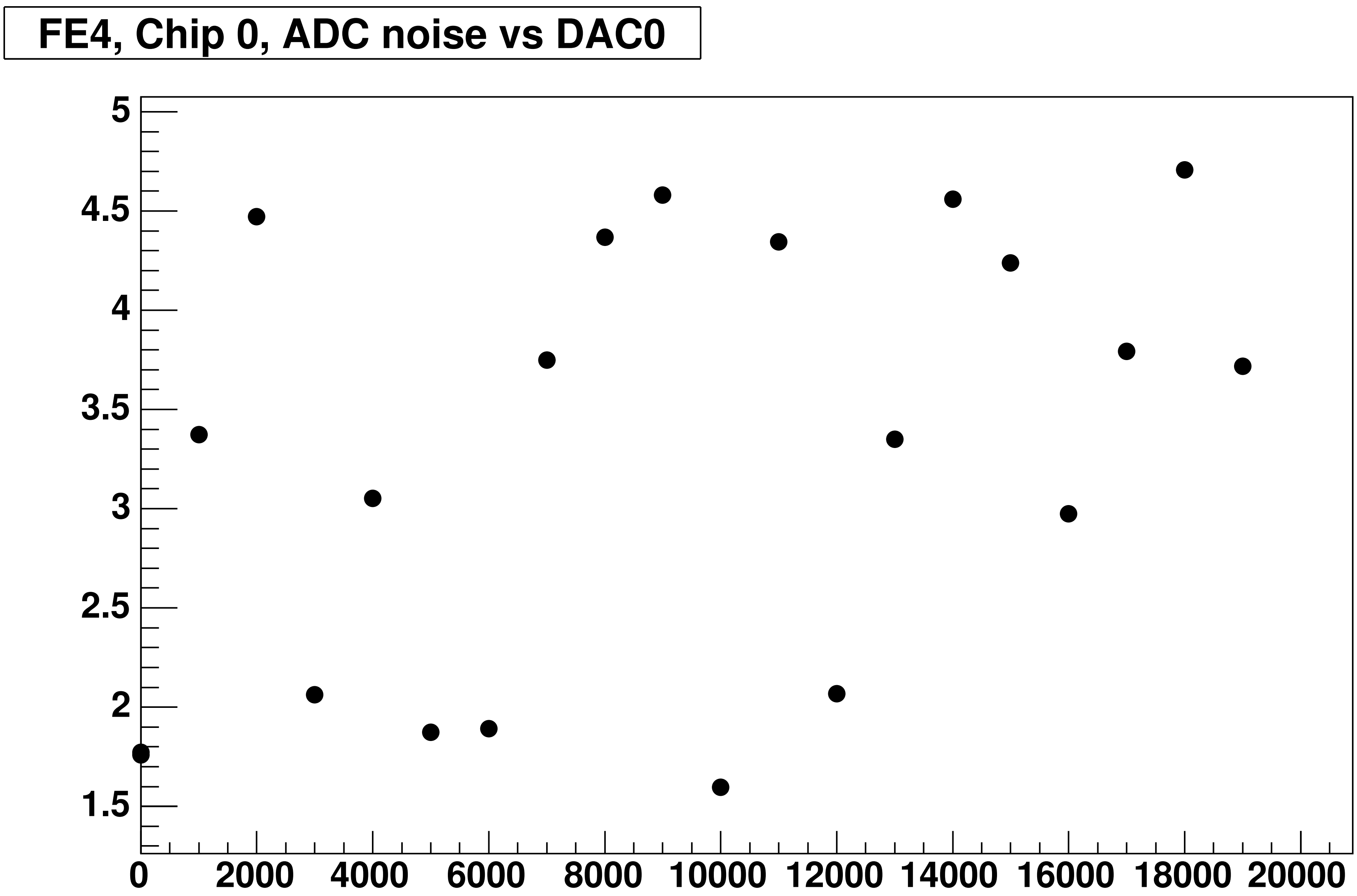

FE3, Chip 11, ADC residuals vs DAC0
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

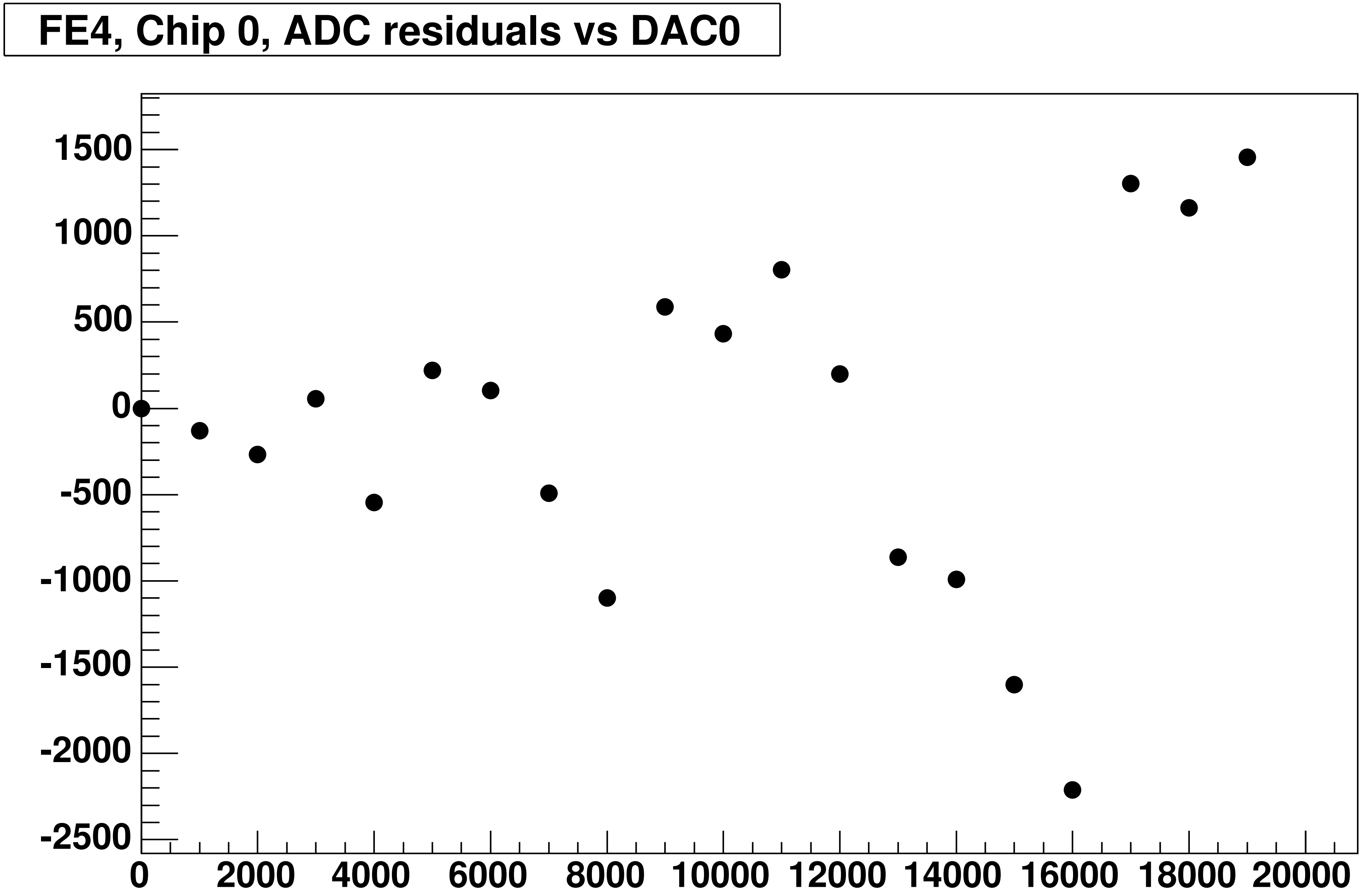

FE3, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 3.519e+10 / 17
p0 -142.2 ± 0.01047
p1 0.6062 ± 9.427e-07
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

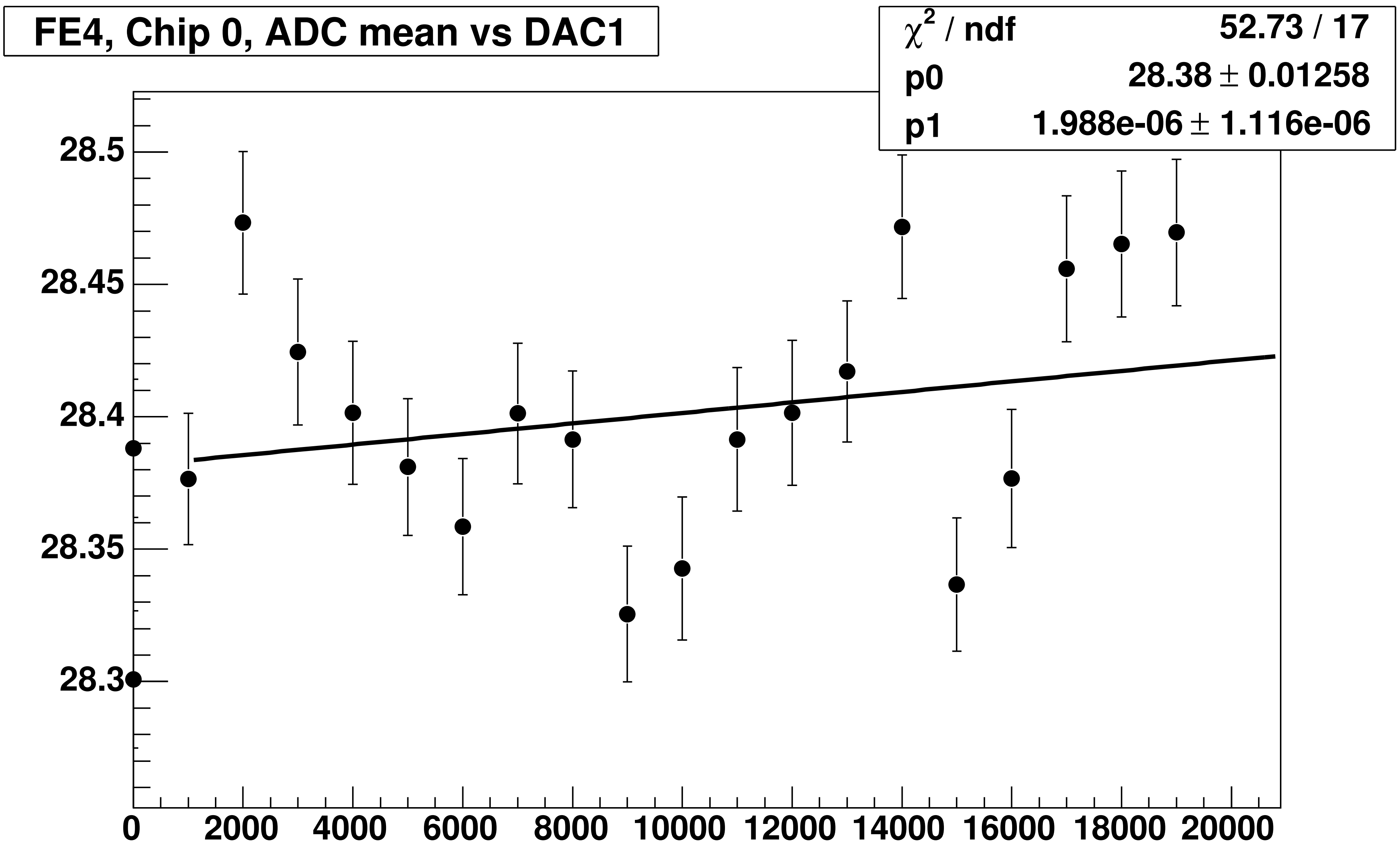

FE3, Chip 11, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

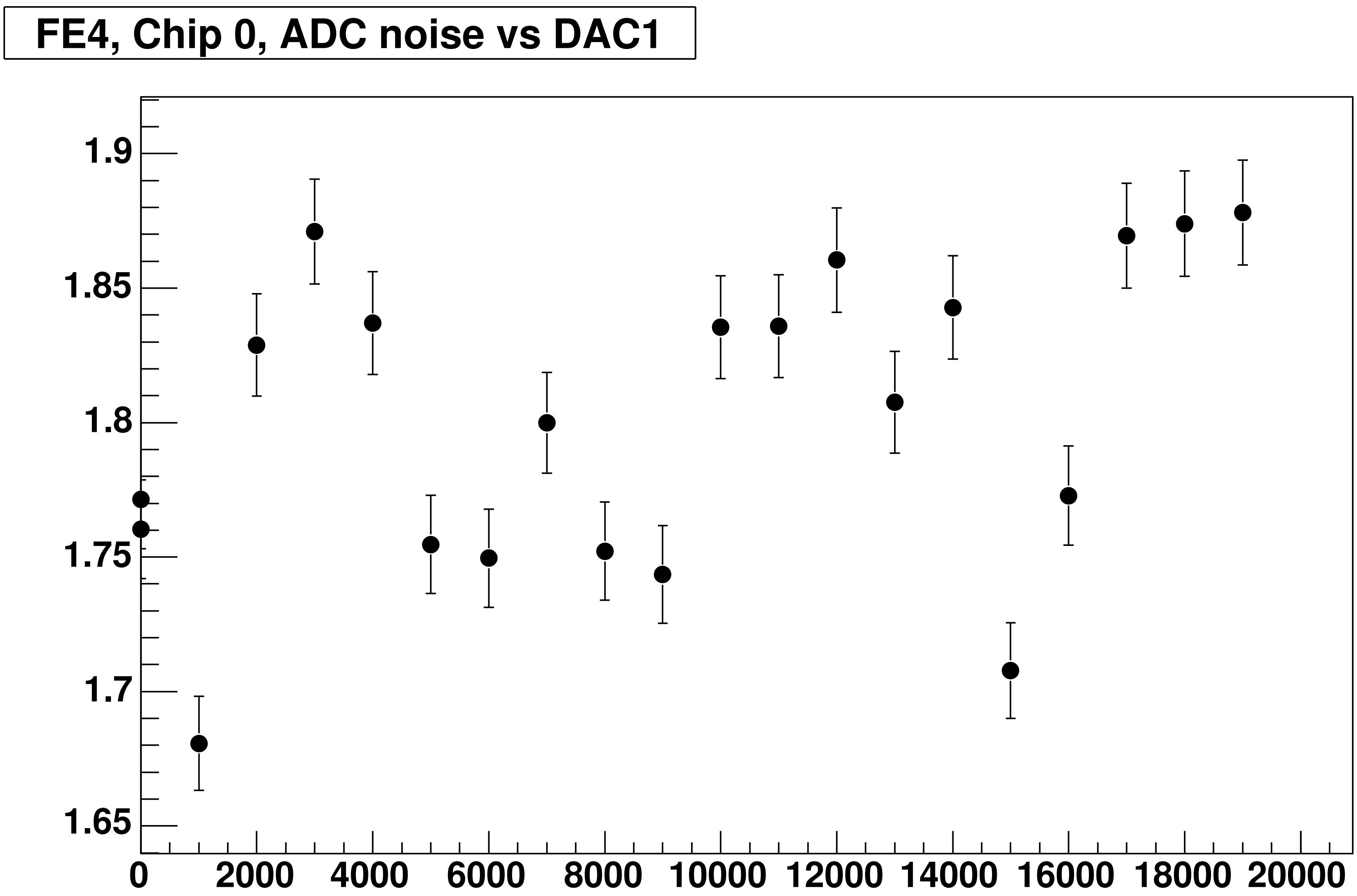

FE3, Chip 11, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE4, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 6.496e+09 / 17
p0 20.35 ± 0.01989
p1 0.5976 ± 1.992e-06
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

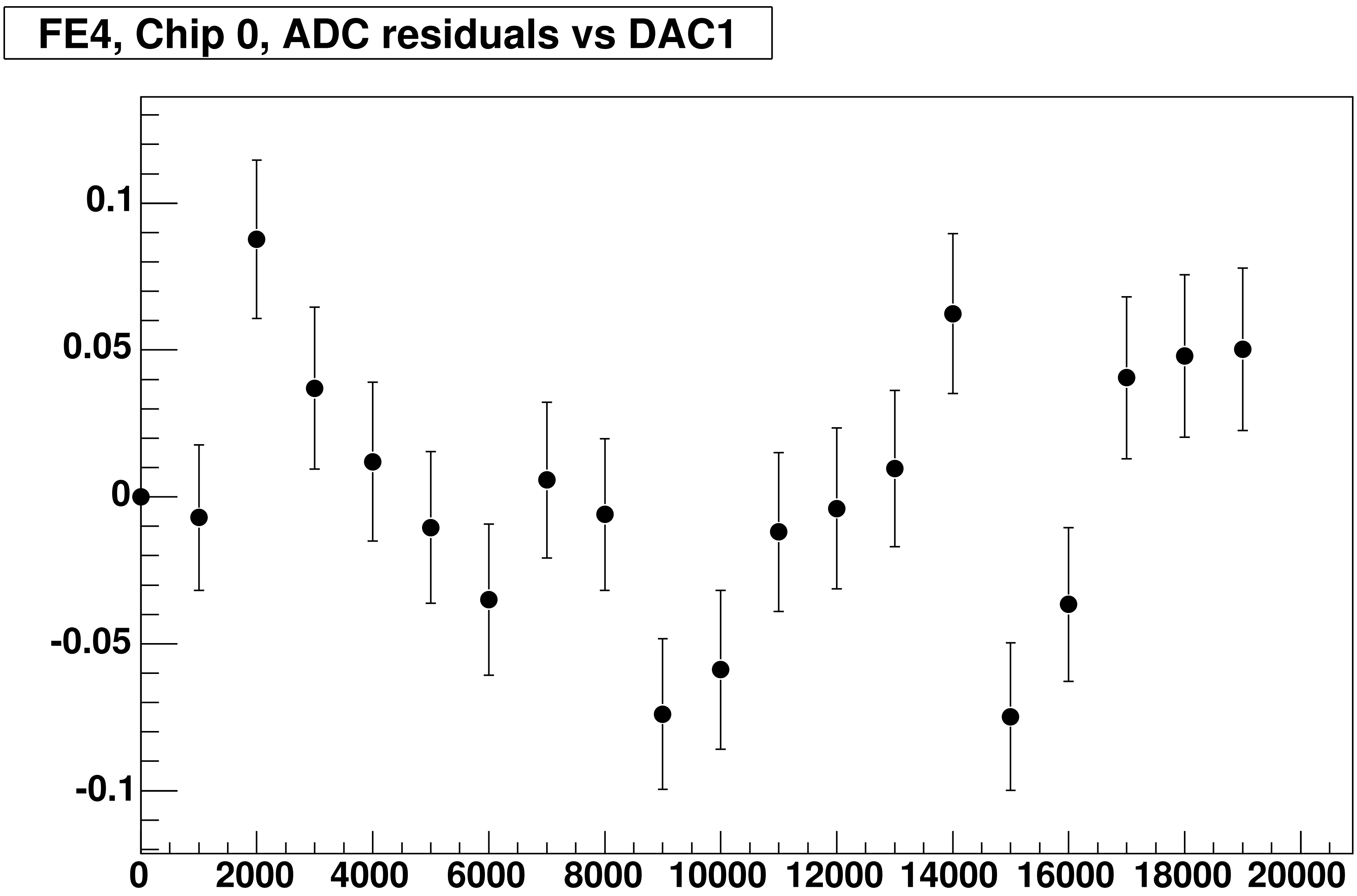

FE4, Chip 0, ADC noise vs DAC0
5
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE4, Chip 0, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

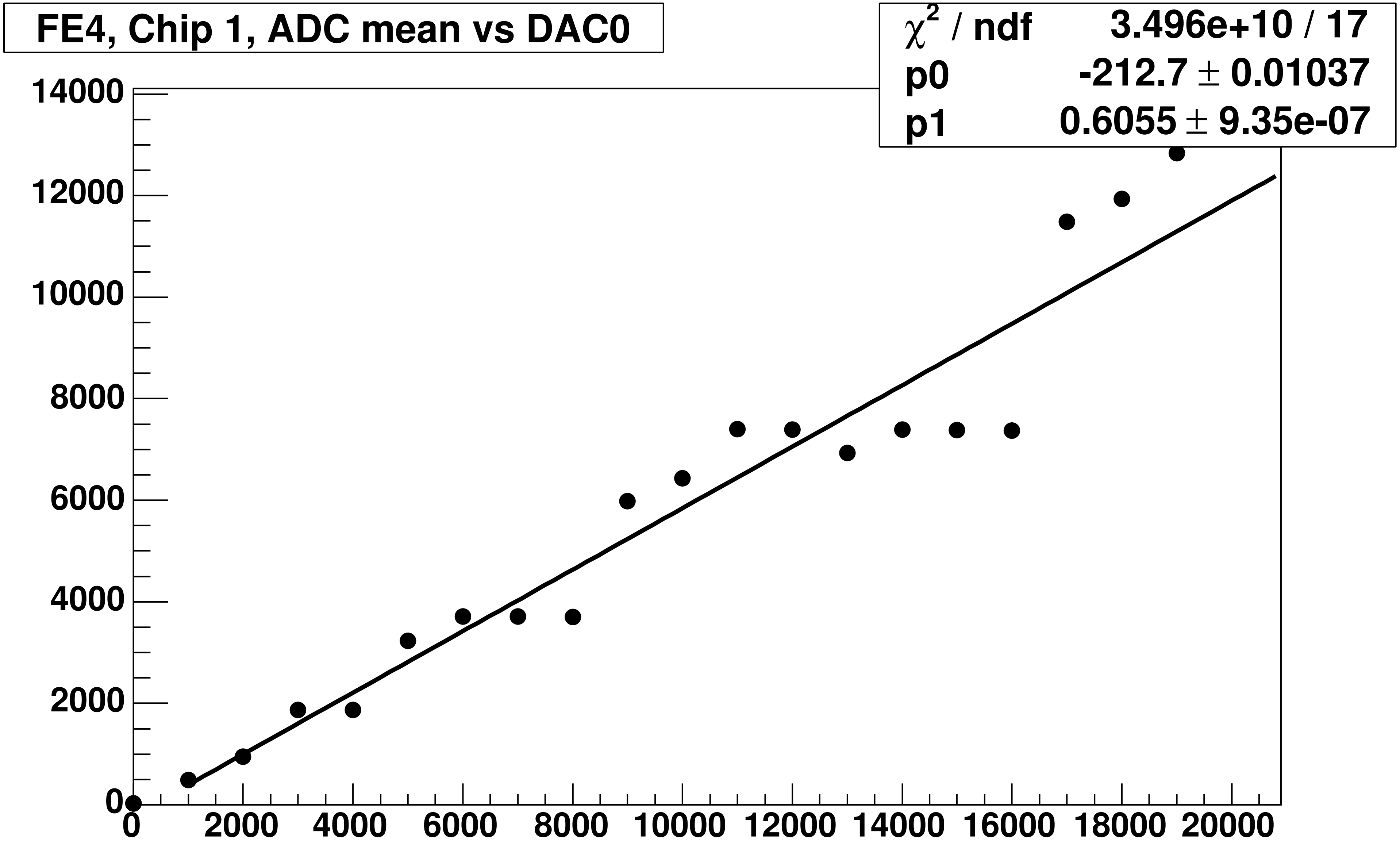

FE4, Chip 0, ADC mean vs DAC1
$\chi^2$ / ndf 52.73 / 17
p0 28.38 ± 0.01258
p1 1.988e-06 ± 1.116e-06
28.5
28.45
28.4
28.35
28.3
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

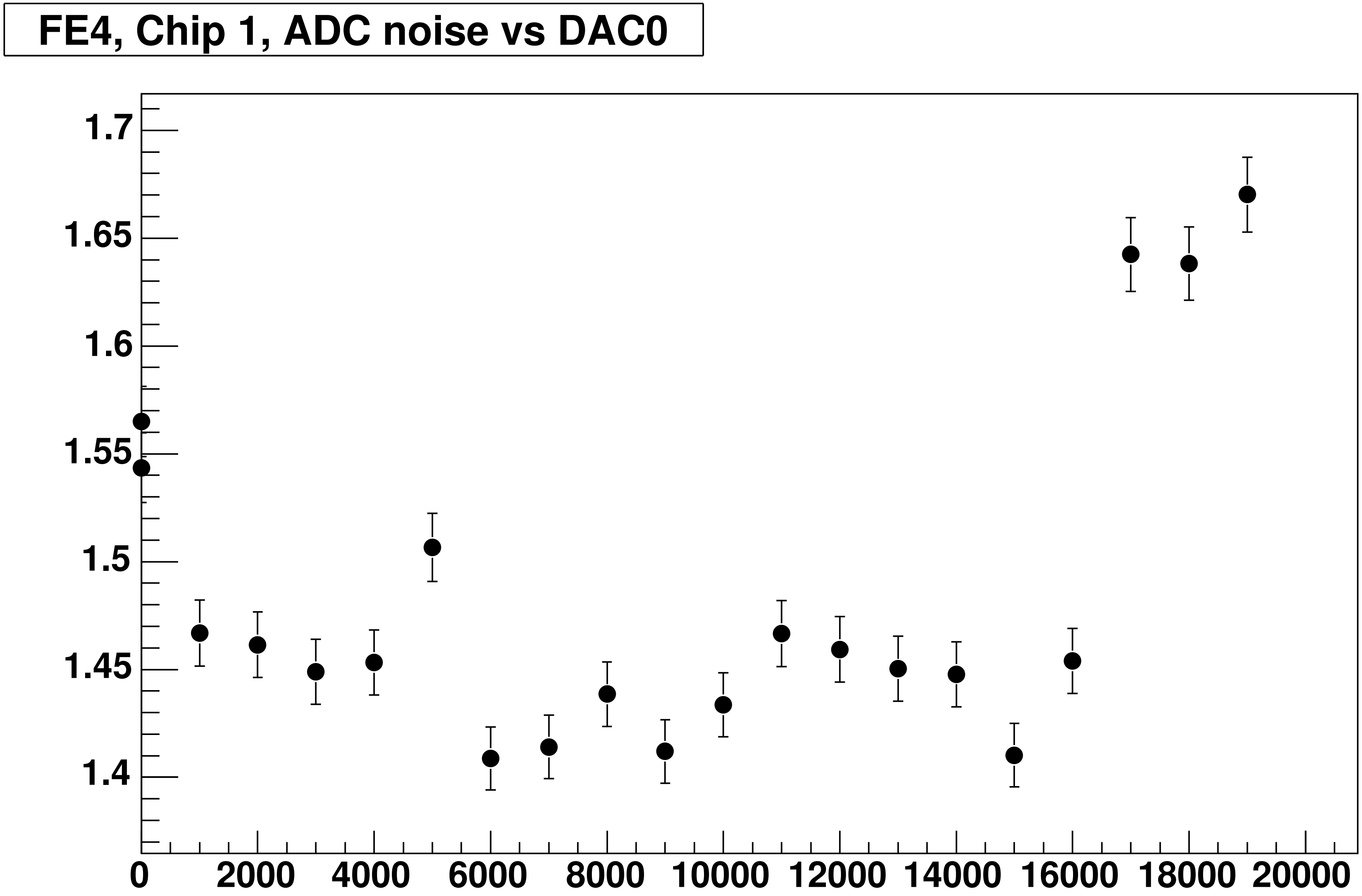


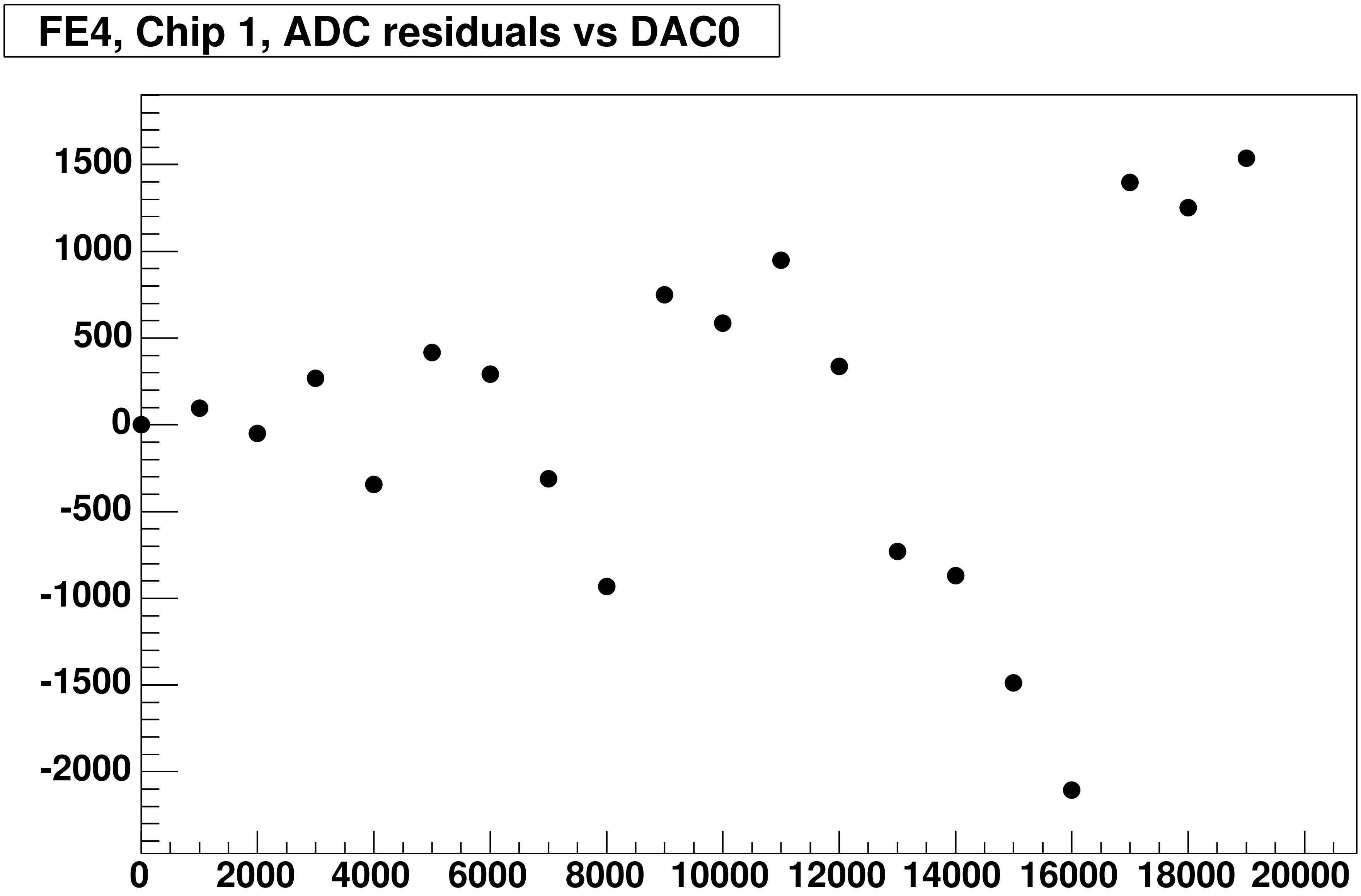
FE4, Chip 0, ADC noise vs DAC1
1.9
1.85
1.8
1.75
1.7
1.65
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

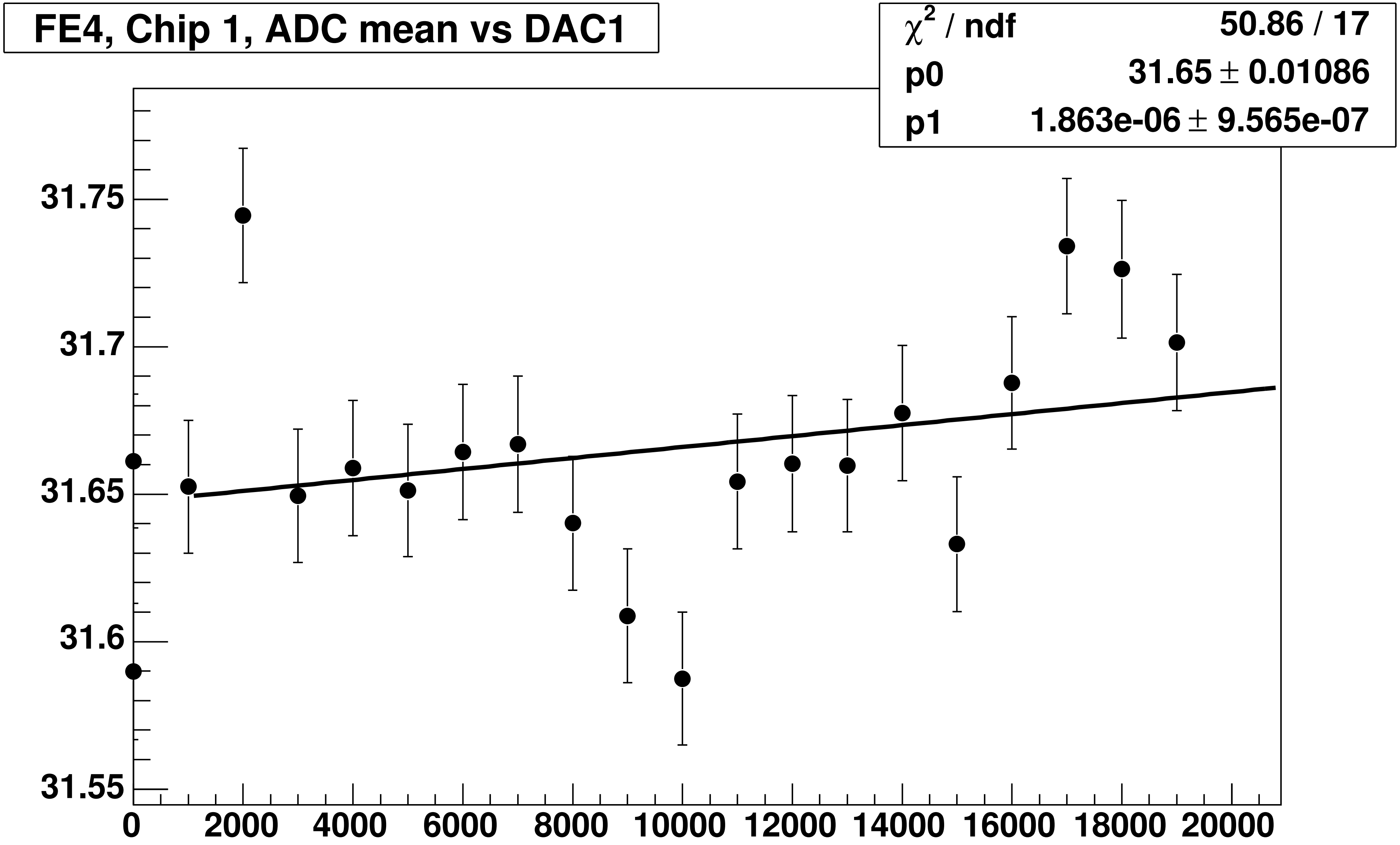


FE4, Chip 0, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

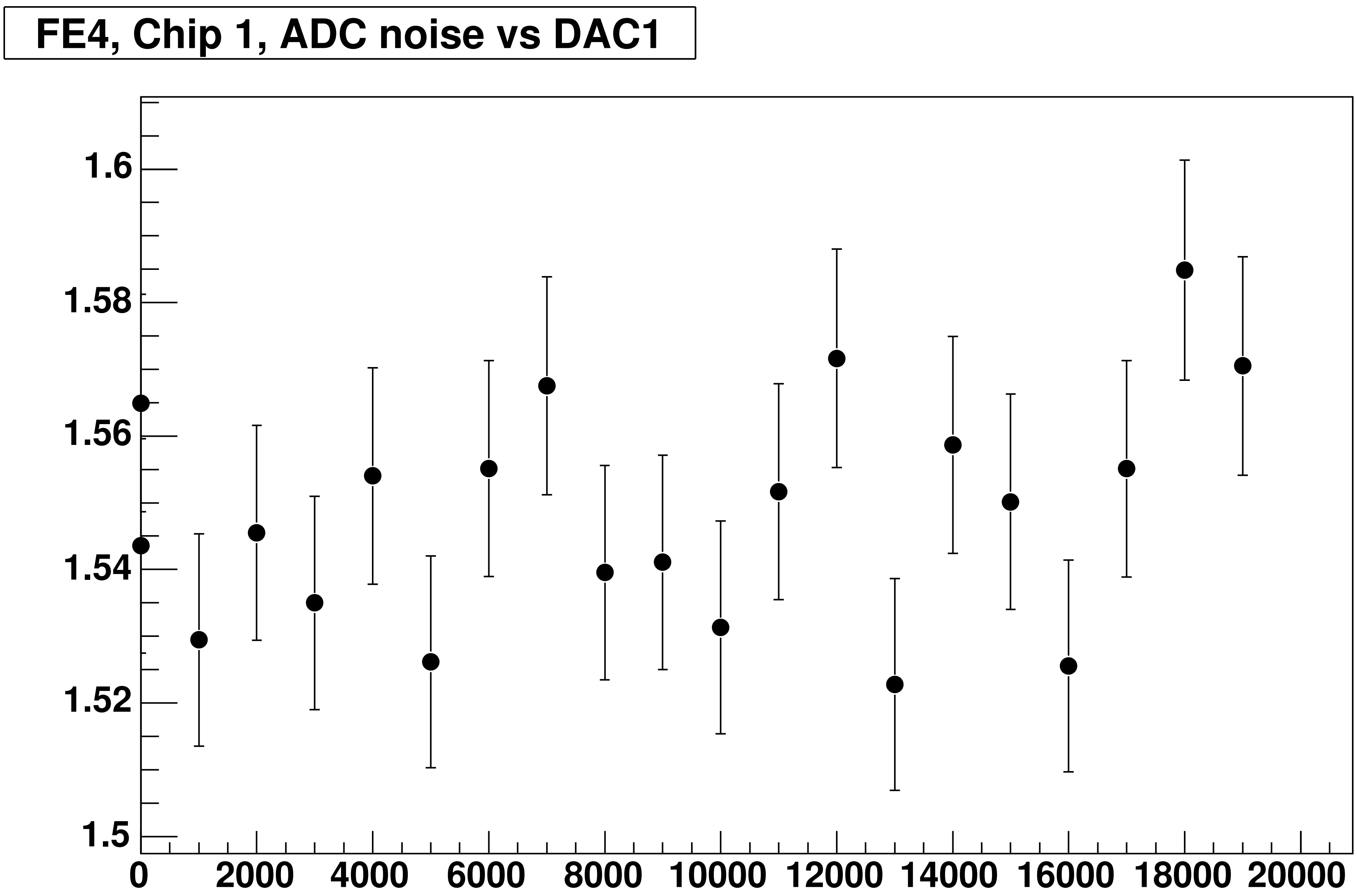

FE4, Chip 1, ADC mean vs DAC0
$\chi^2$ / ndf 3.496e+10 / 17
p0 -212.7 ± 0.01037
p1 0.6055 ± 9.35e-07
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

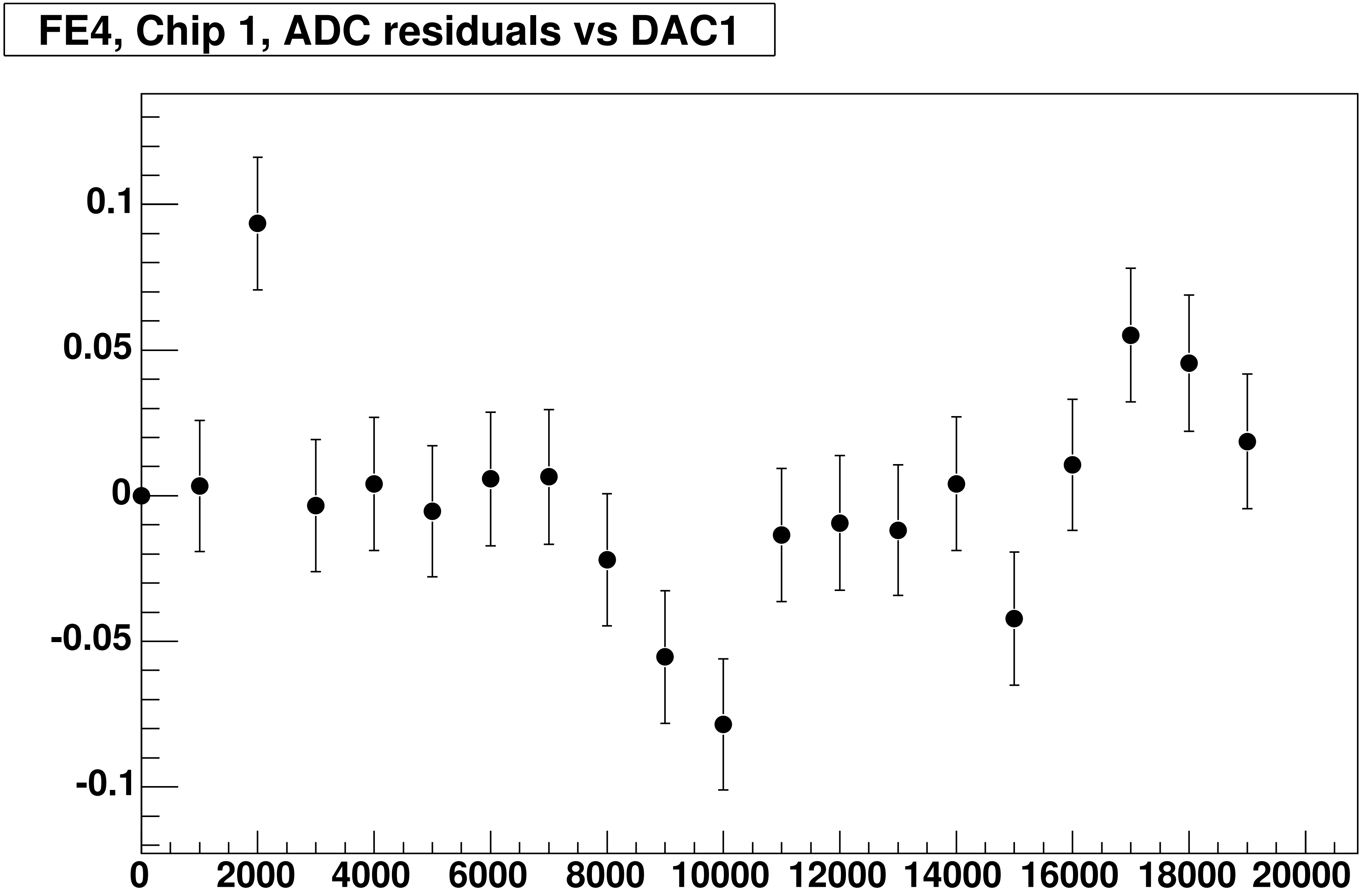

FE4, Chip 1, ADC noise vs DAC0
1.7
1.65
1.6
1.55
1.5
1.45
1.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

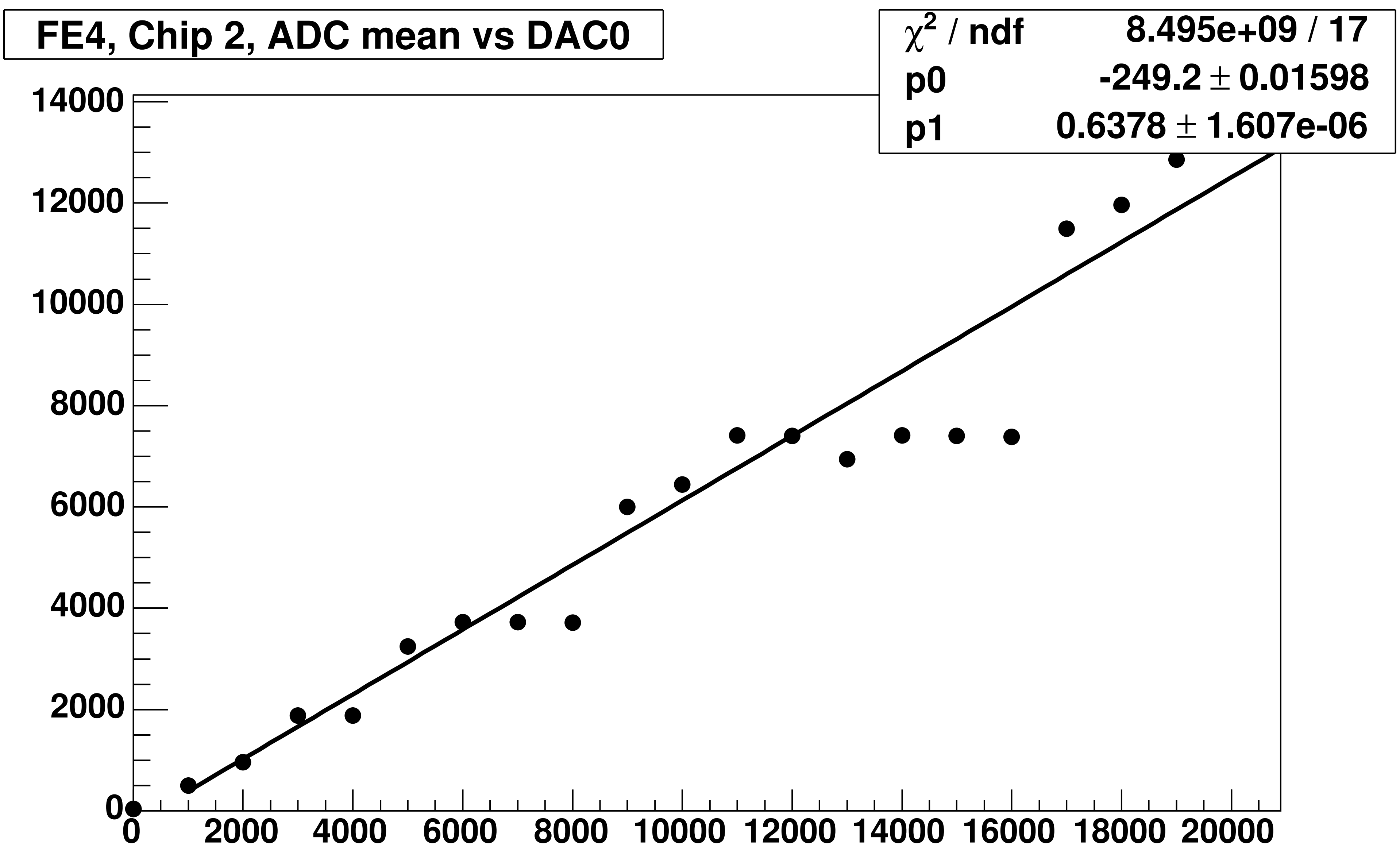

FE4, Chip 1, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

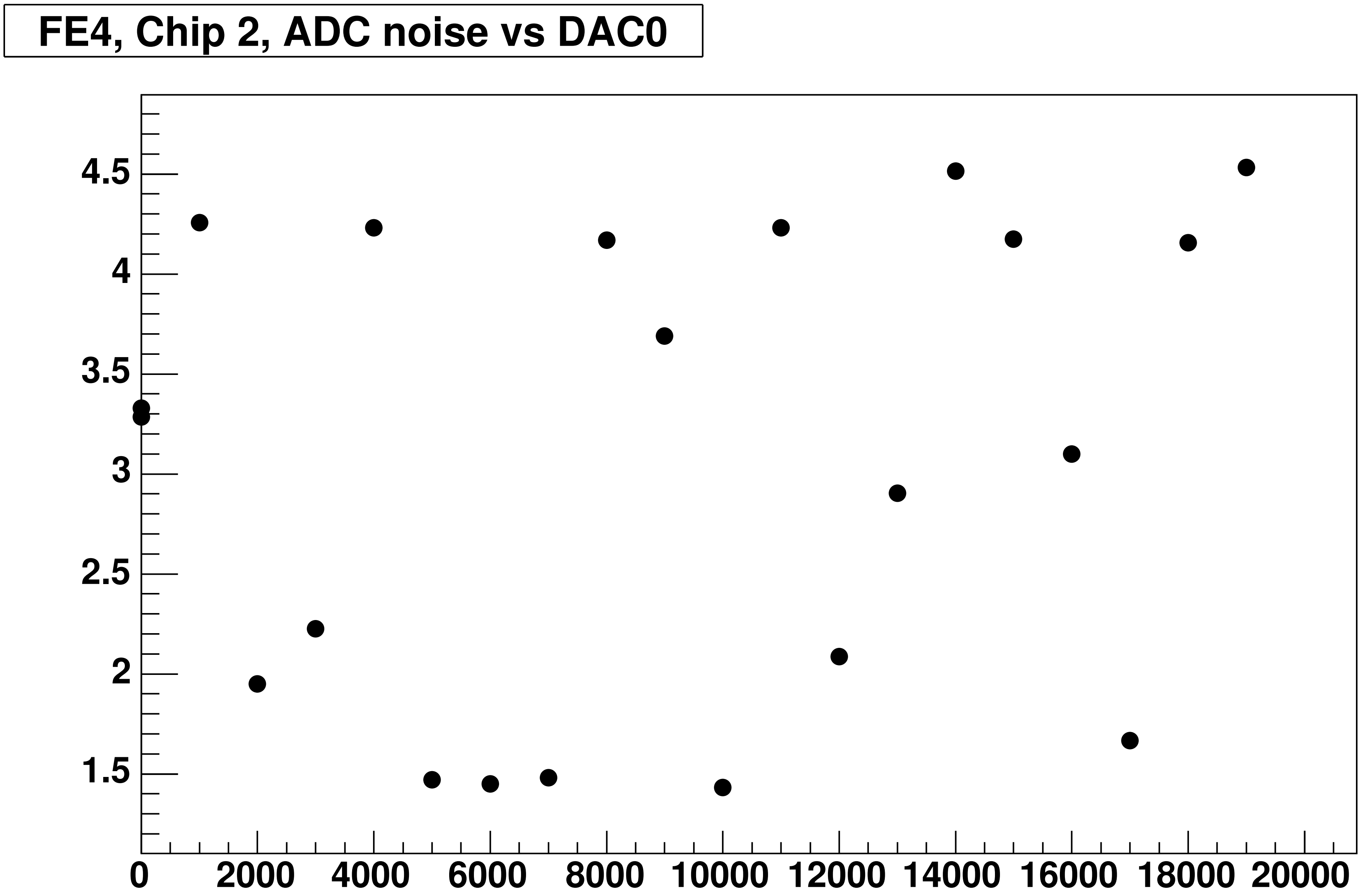


FE4, Chip 1, ADC mean vs DAC1
χ² / ndf 50.86 / 17
p0 31.65 ± 0.01086
p1 1.863e-06 ± 9.565e-07
31.75
31.7
31.65
31.6
31.55
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

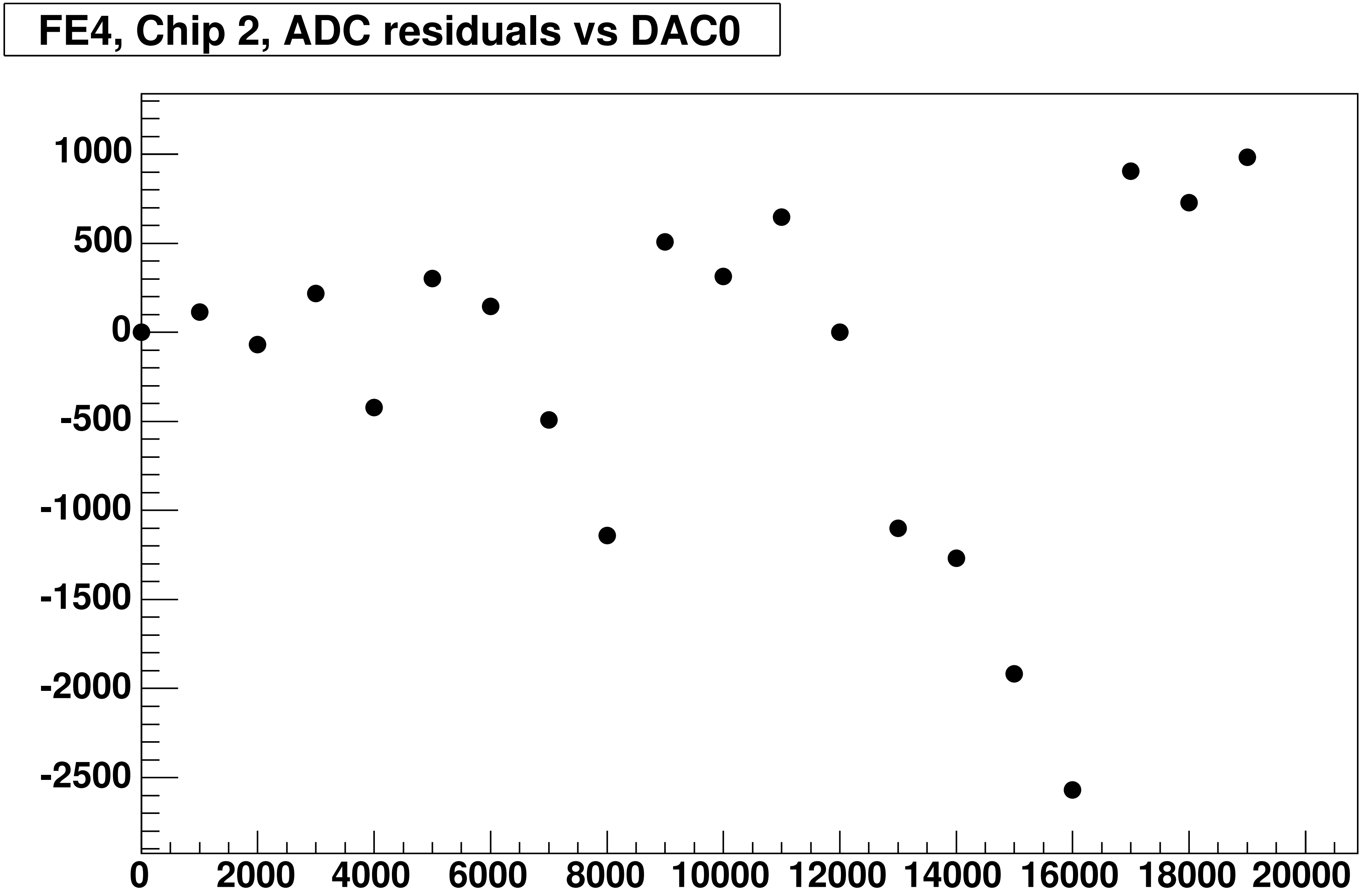

FE4, Chip 1, ADC noise vs DAC1
1.6
1.58
1.56
1.54
1.52
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

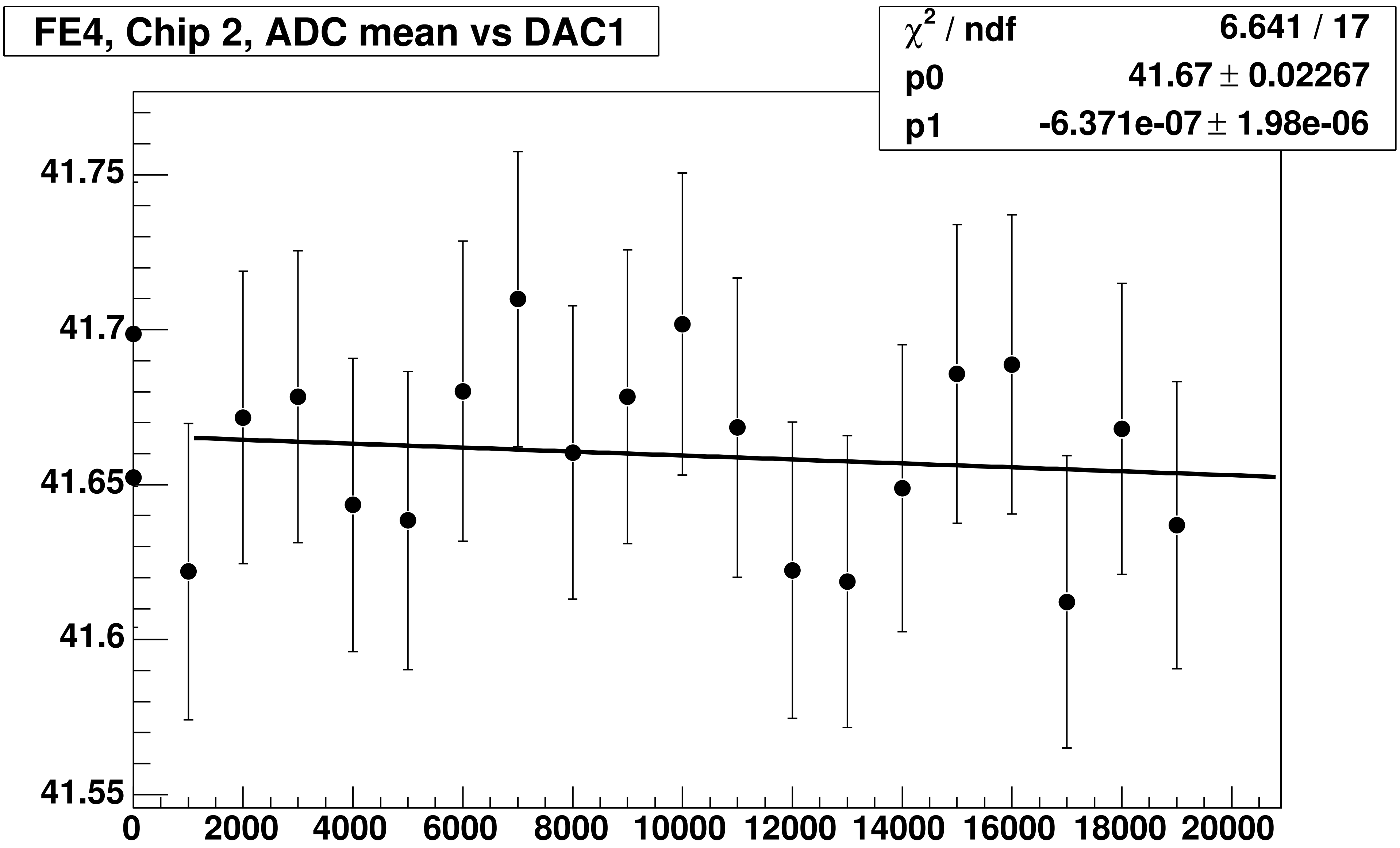

FE4, Chip 1, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE4, Chip 2, ADC mean vs DAC0
$\chi^2$ / ndf 8.495e+09 / 17
p0 -249.2 ± 0.01598
p1 0.6378 ± 1.607e-06
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

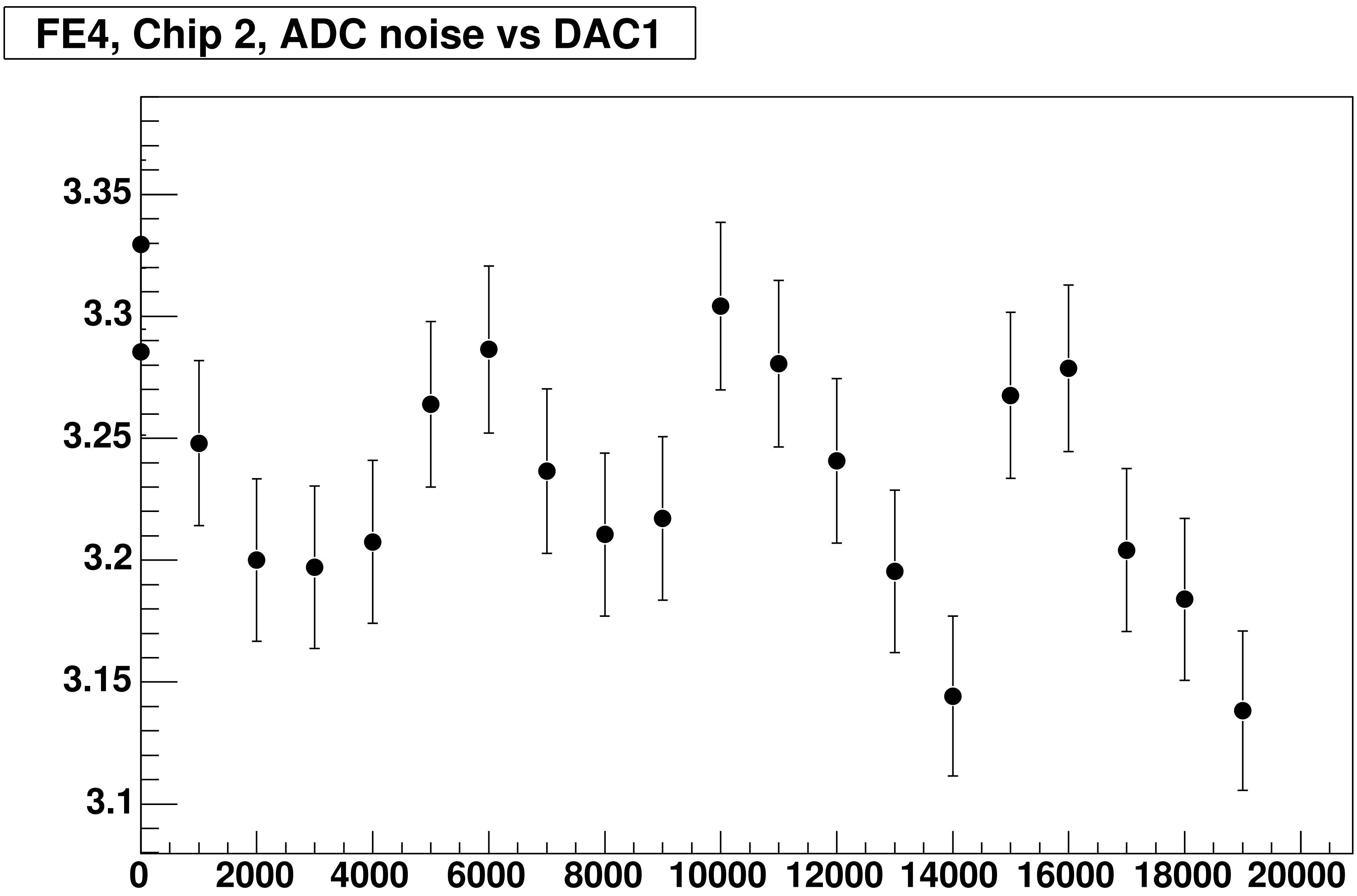


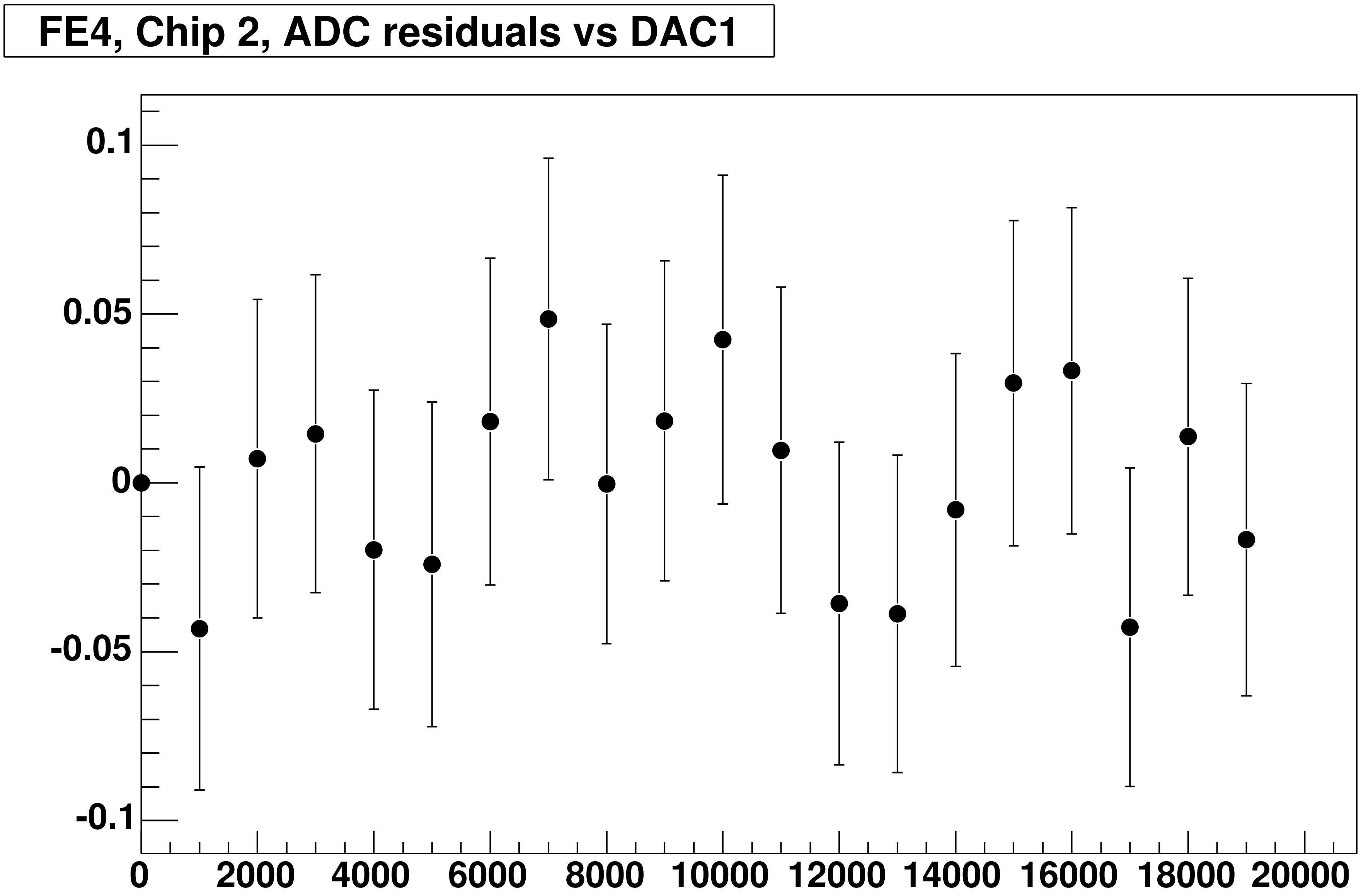
FE4, Chip 2, ADC noise vs DAC0
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

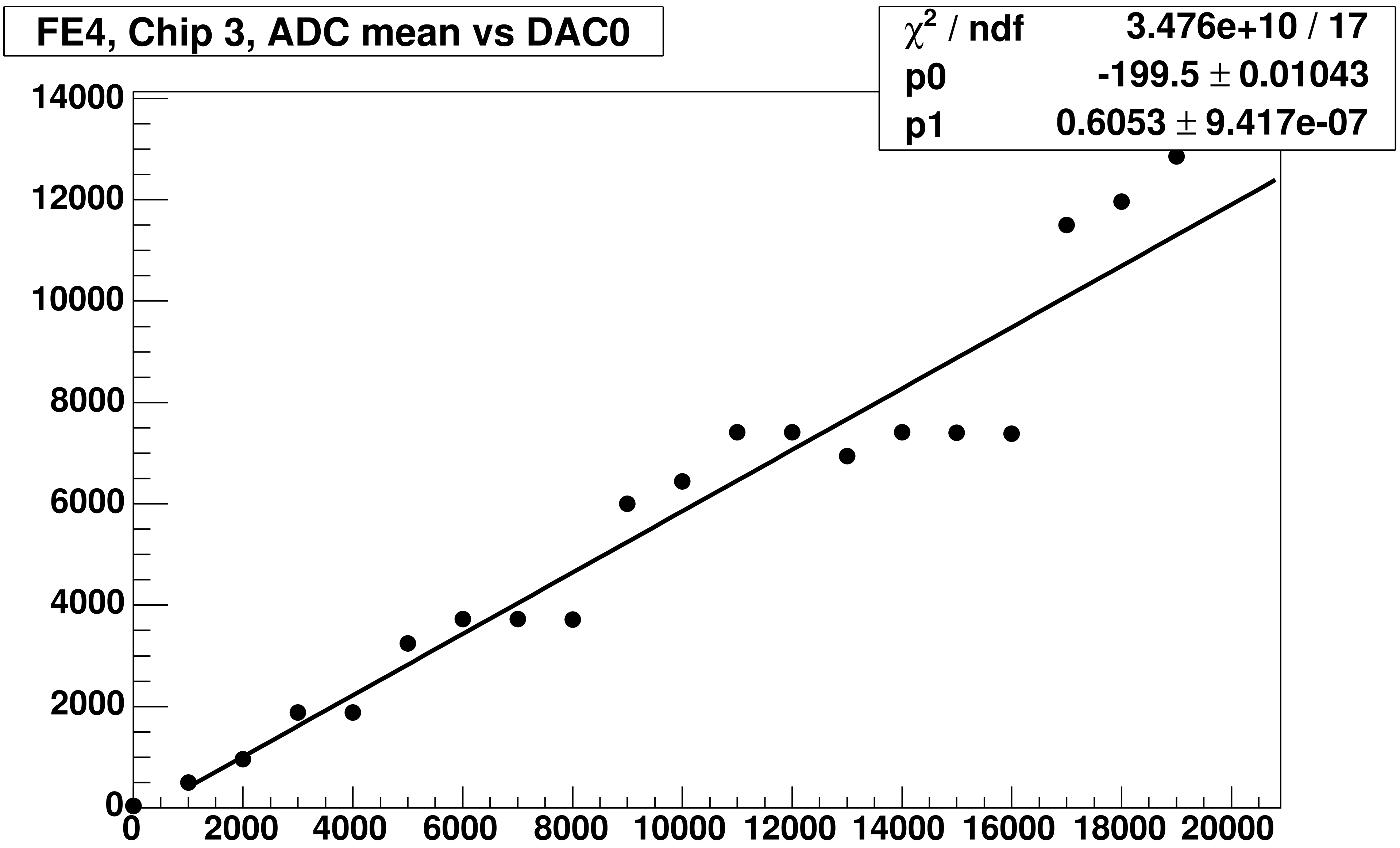

FE4, Chip 2, ADC residuals vs DAC0
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



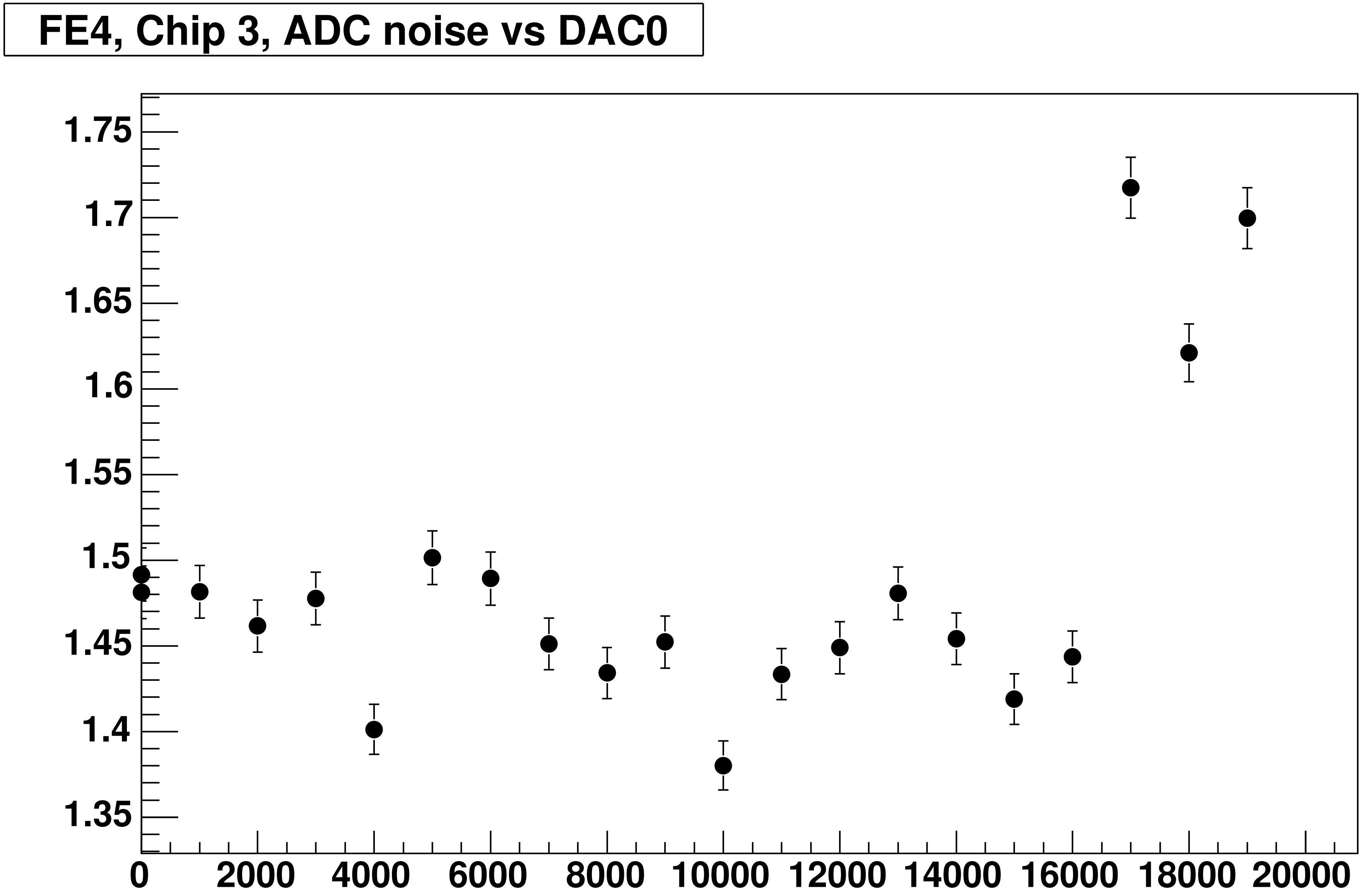
FE4, Chip 2, ADC mean vs DAC1
$\chi^2$ / ndf 6.641 / 17
p0 41.67 ± 0.02267
p1 -6.371e-07 ± 1.98e-06
41.75
41.7
41.65
41.6
41.55
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

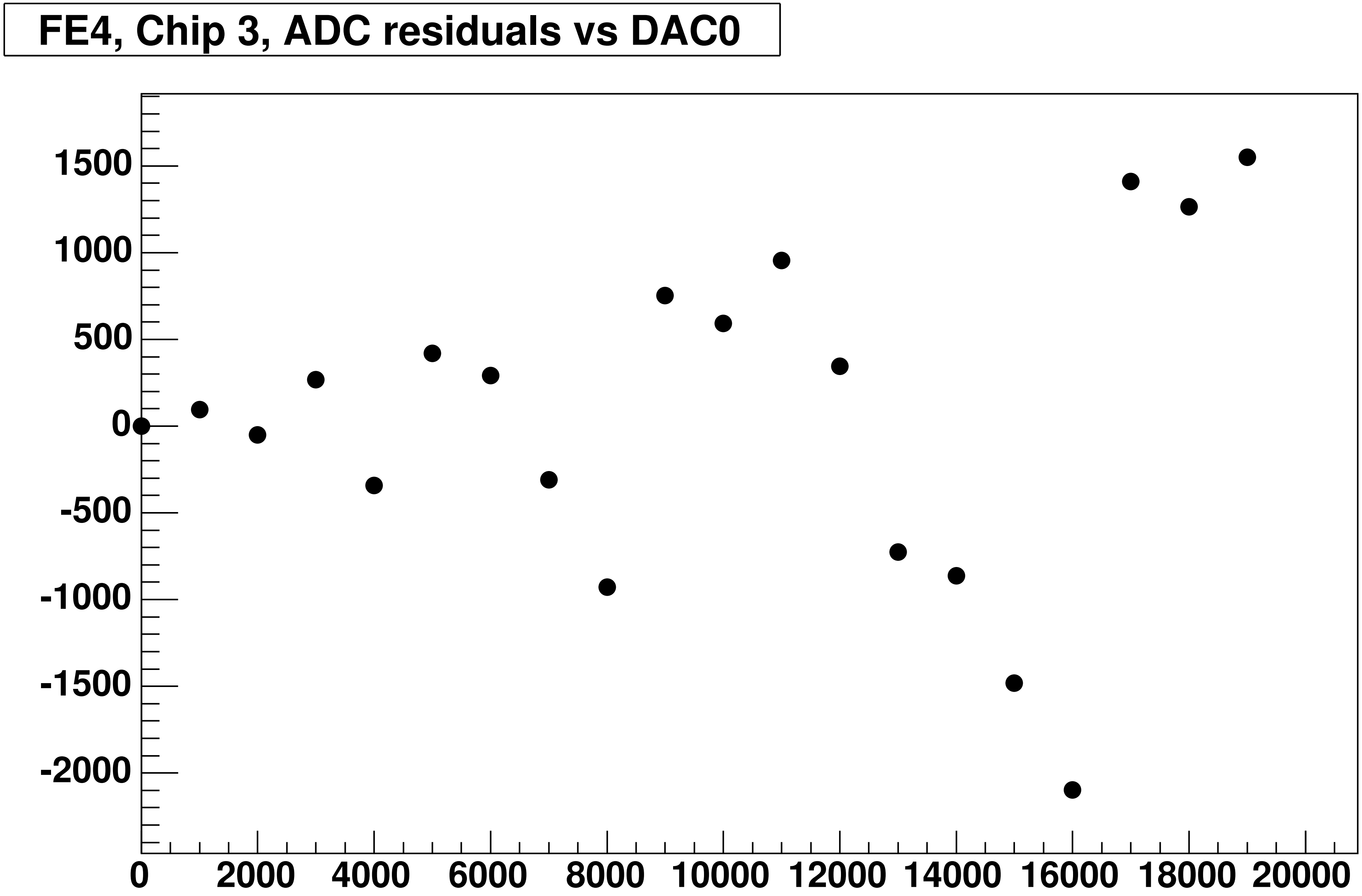

FE4, Chip 2, ADC noise vs DAC1
3.35
3.3
3.25
3.2
3.15
3.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

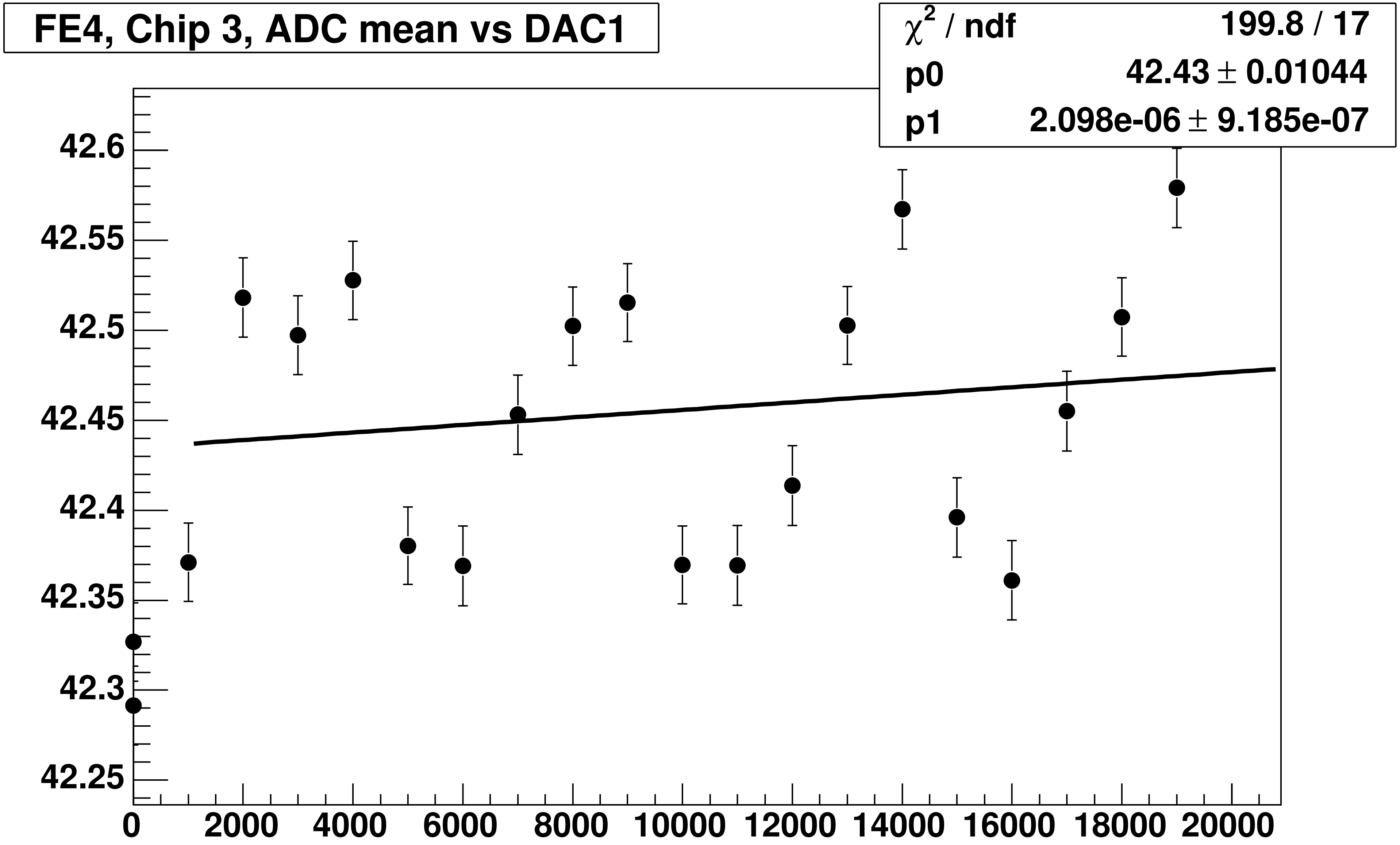

FE4, Chip 2, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

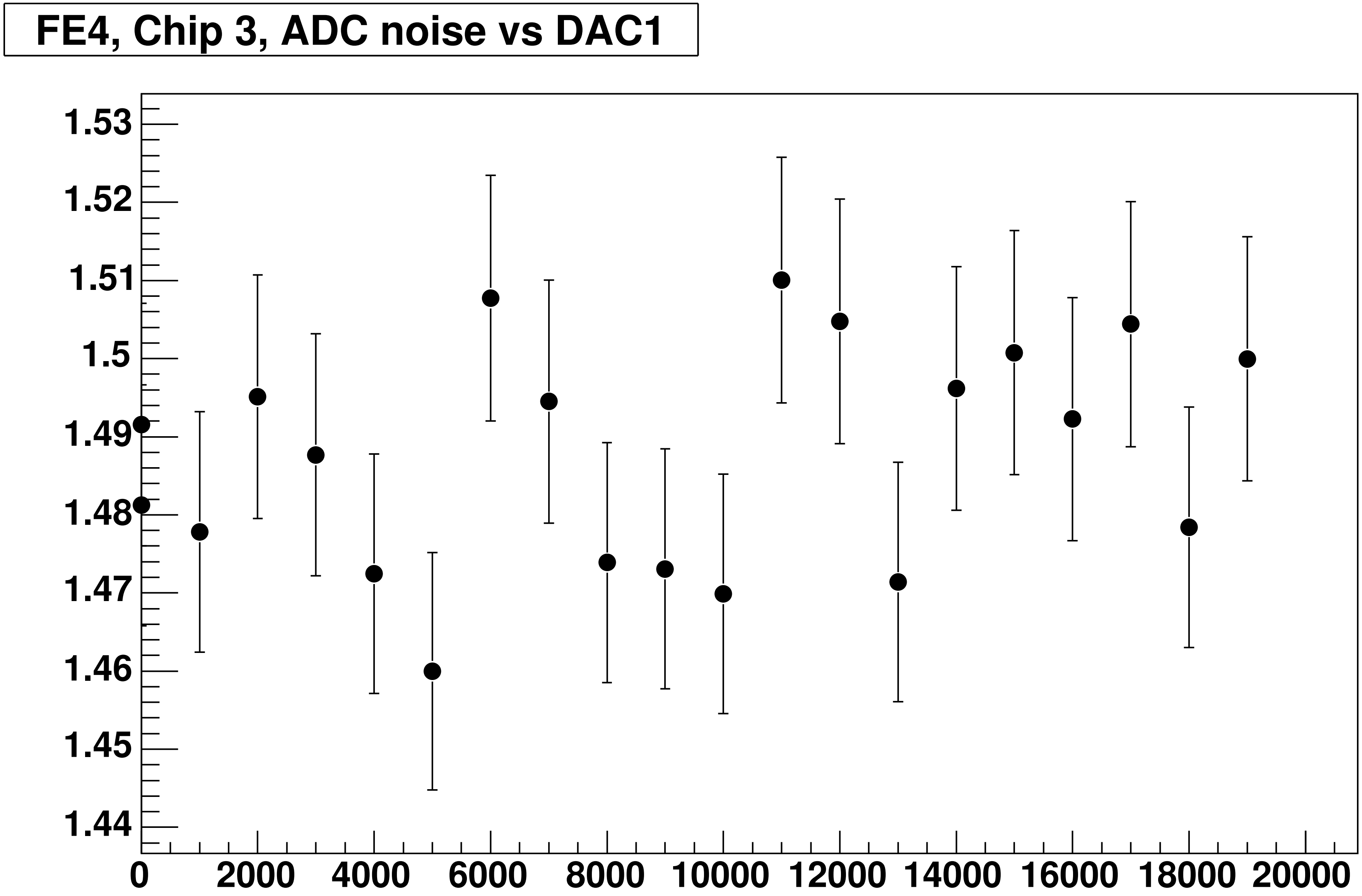


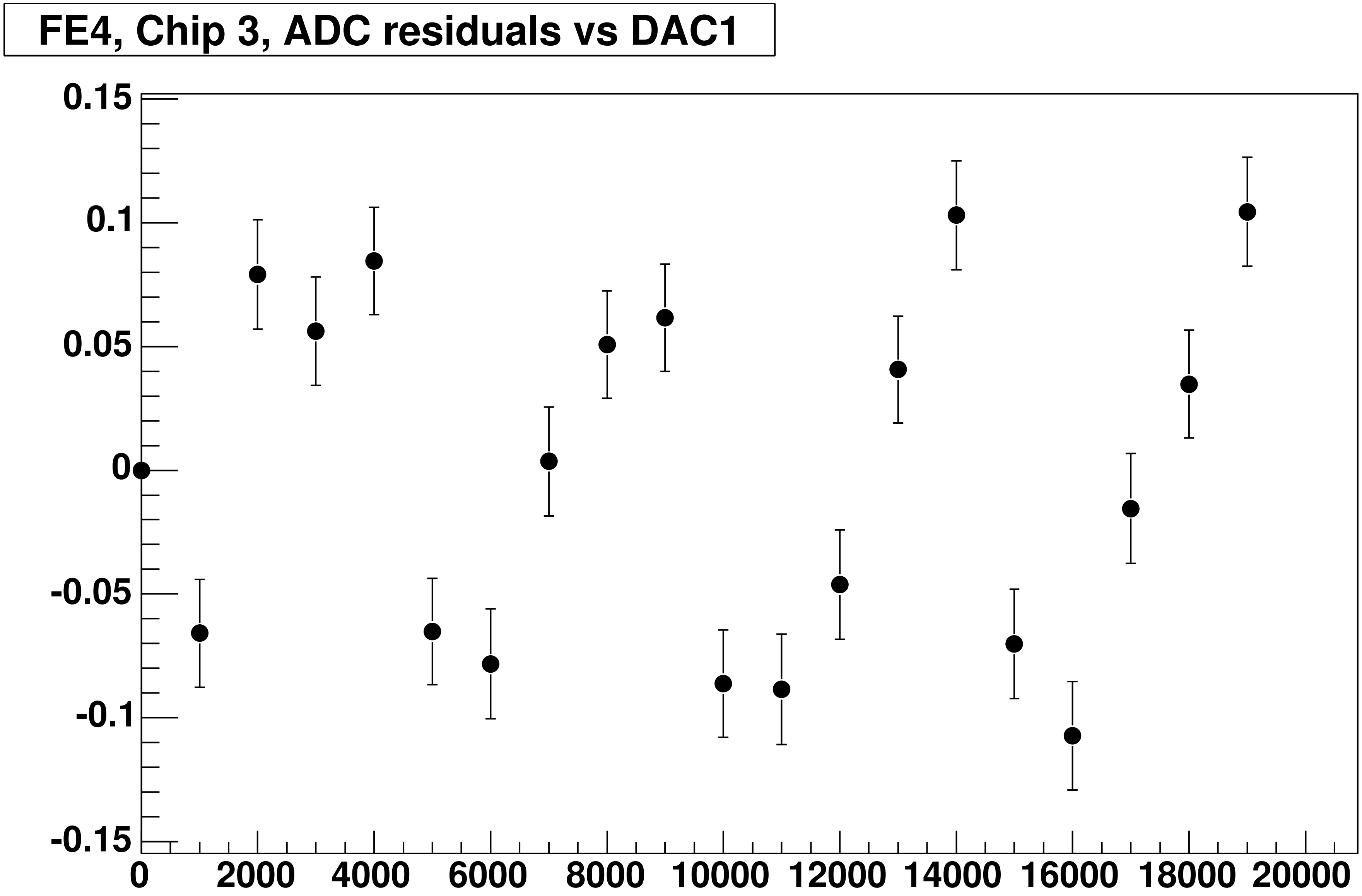
FE4, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 3.476e+10 / 17
p0 -199.5 ± 0.01043
p1 0.6053 ± 9.417e-07
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

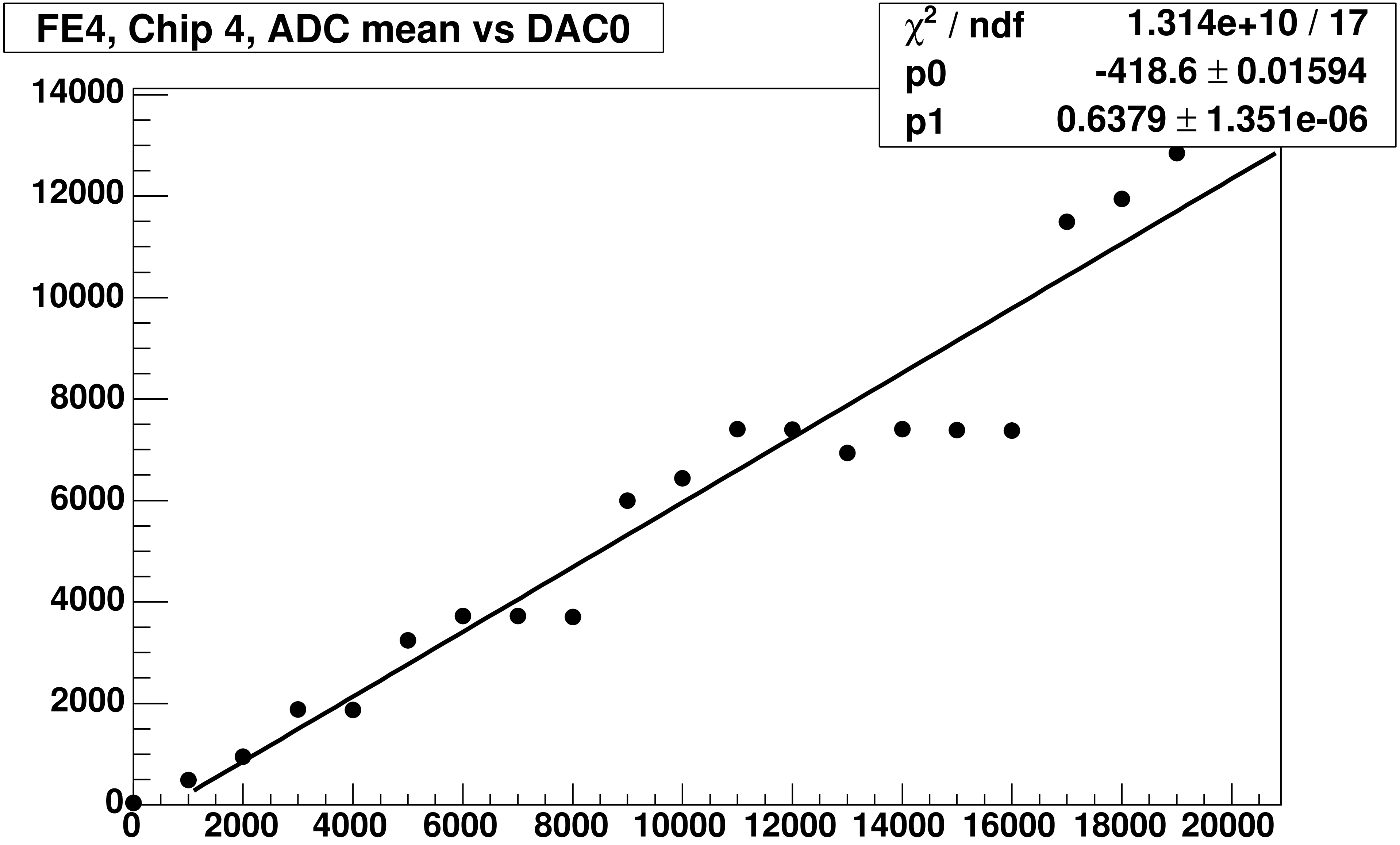

FE4, Chip 3, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

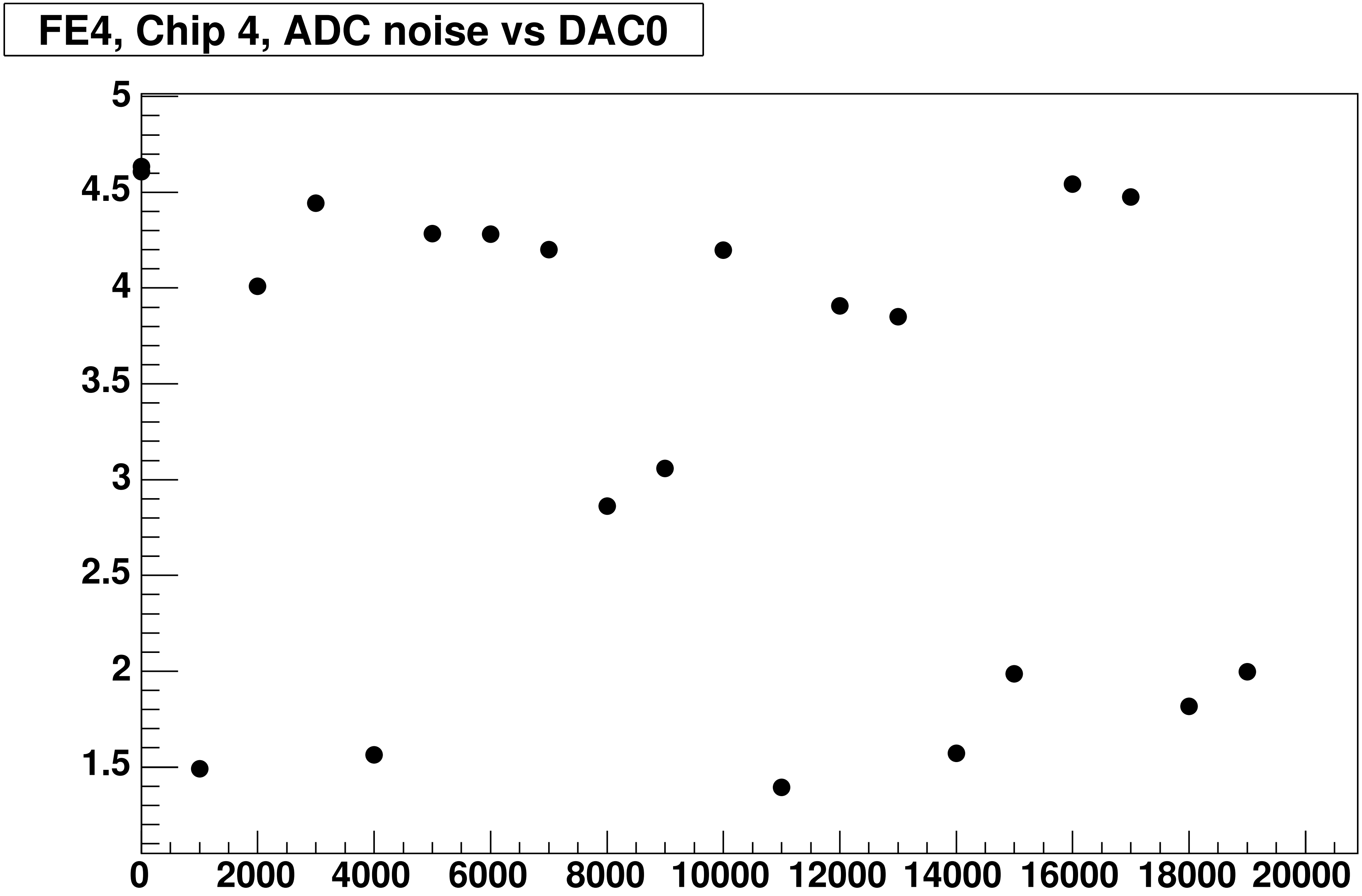

FE4, Chip 3, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

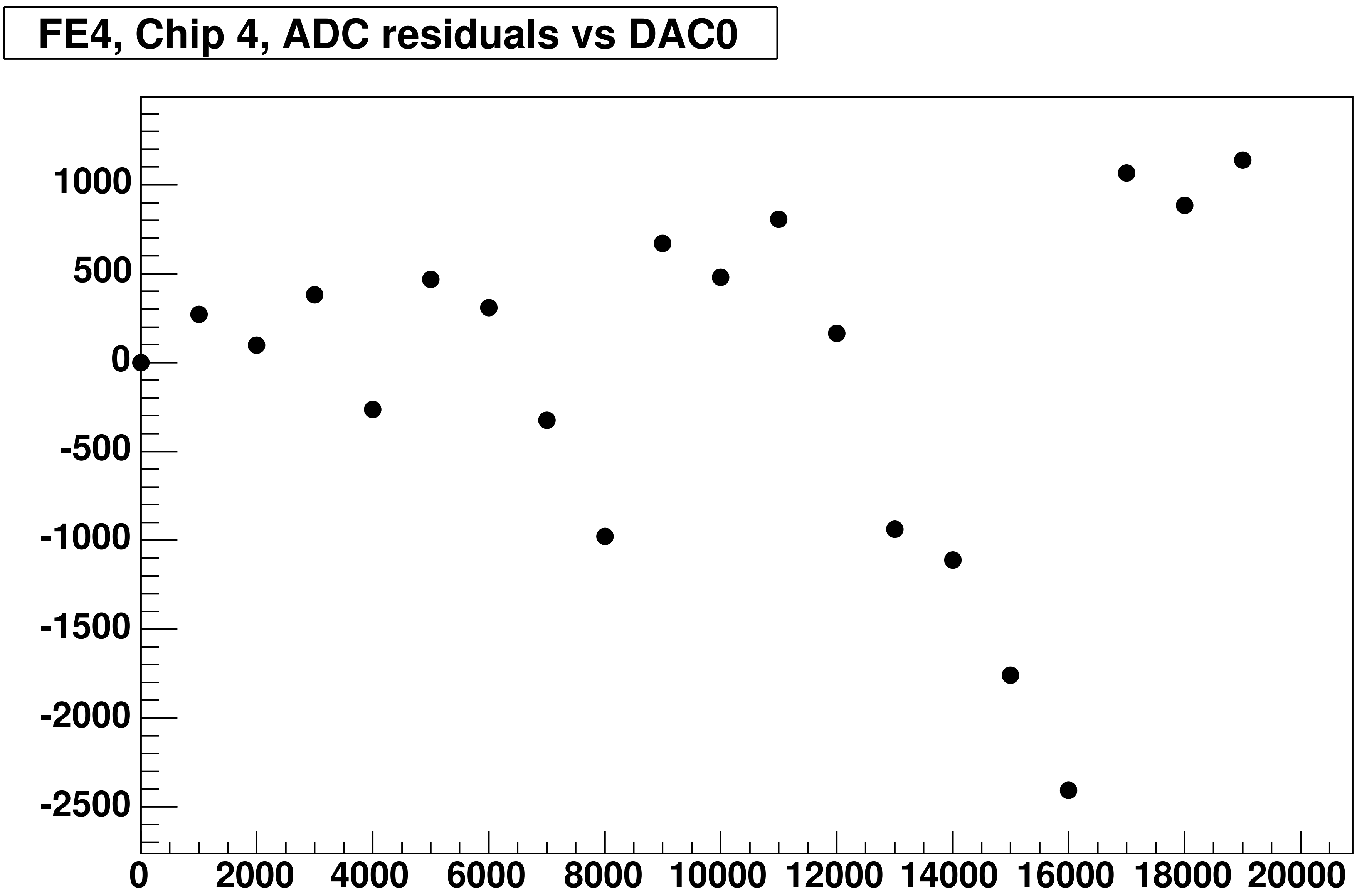

FE4, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 199.8 / 17
p0 42.43 ± 0.01044
p1 2.098e-06 ± 9.185e-07
42.6
42.55
42.5
42.45
42.4
42.35
42.3
42.25
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

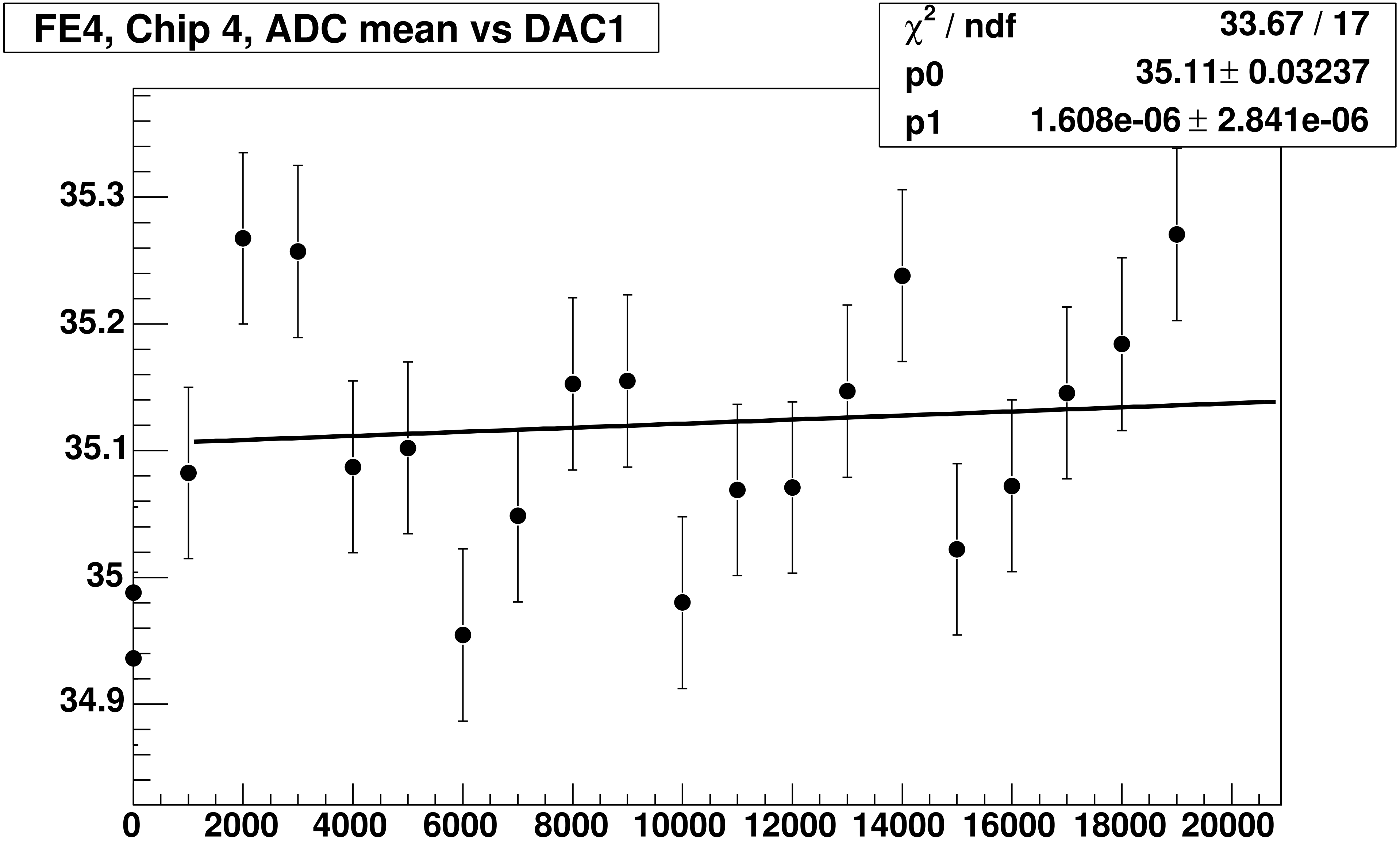

FE4, Chip 3, ADC noise vs DAC1
1.53
1.52
1.51
1.5
1.49
1.48
1.47
1.46
1.45
1.44
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE4, Chip 3, ADC residuals vs DAC1
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

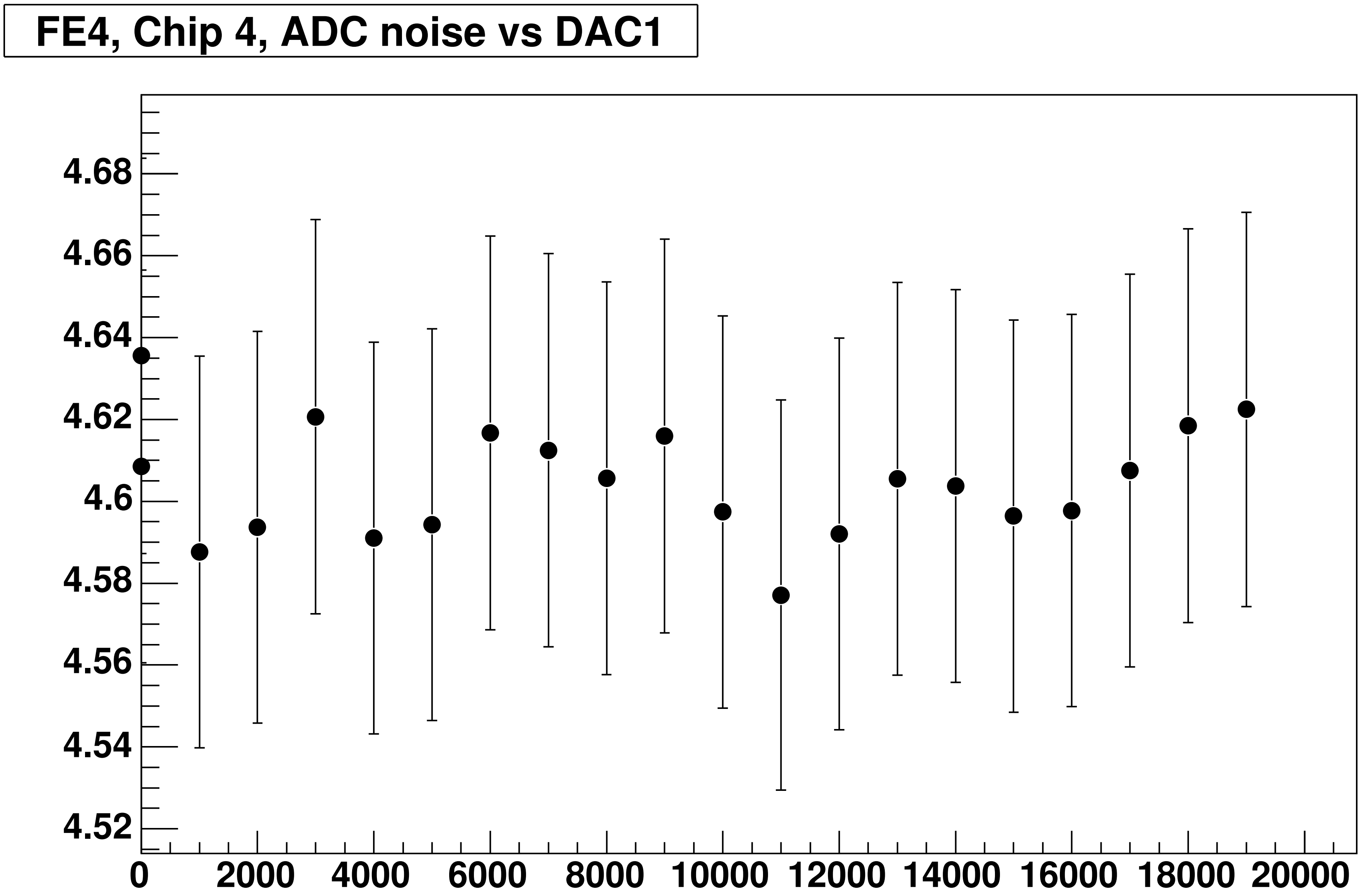

FE4, Chip 4, ADC mean vs DAC0
$\chi^2$ / ndf 1.314e+10 / 17
p0 -418.6 ± 0.01594
p1 0.6379 ± 1.351e-06
0
2000
4000
6000
8000
10000
12000
14000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

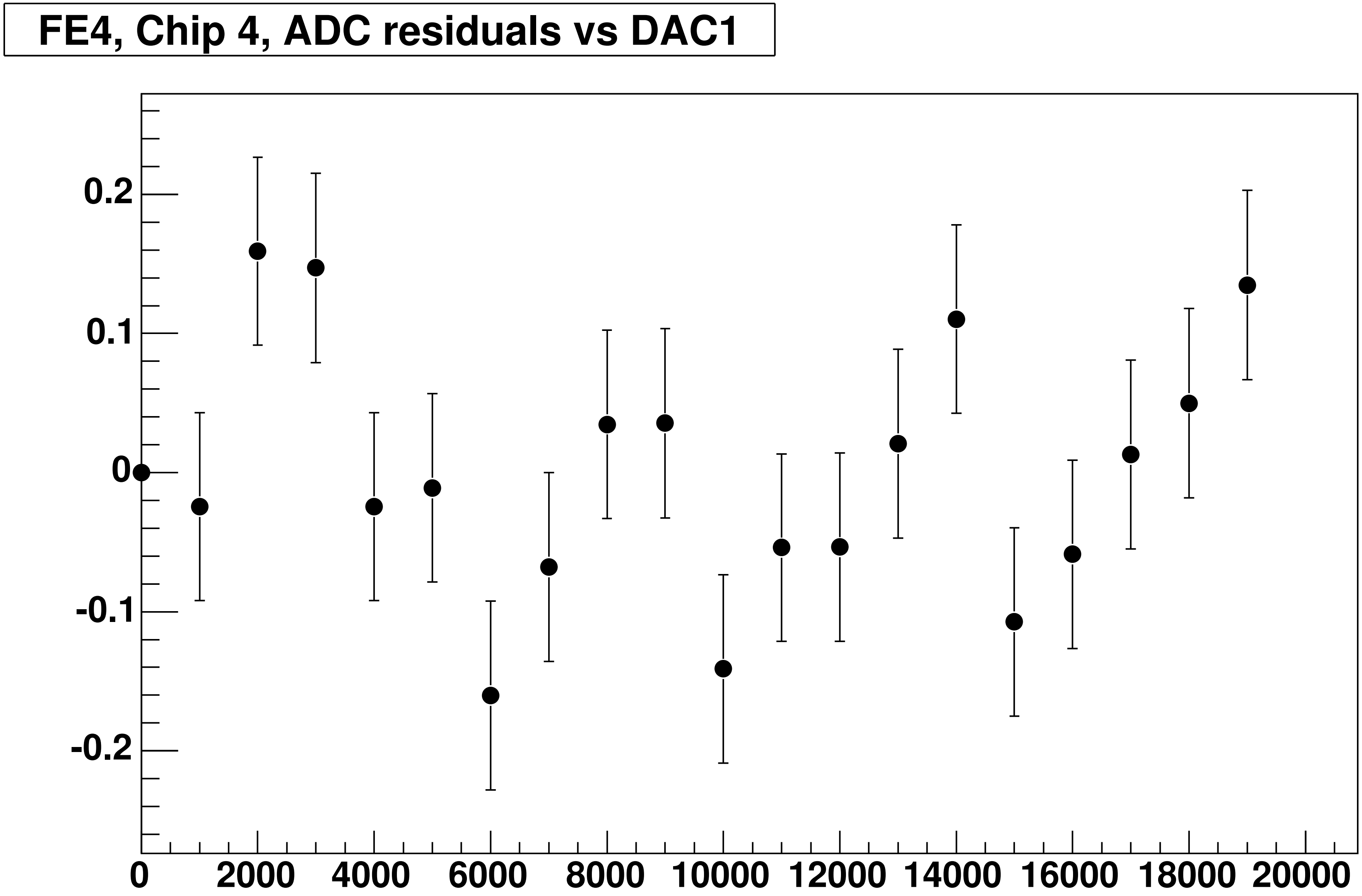

FE4, Chip 4, ADC noise vs DAC0
5
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

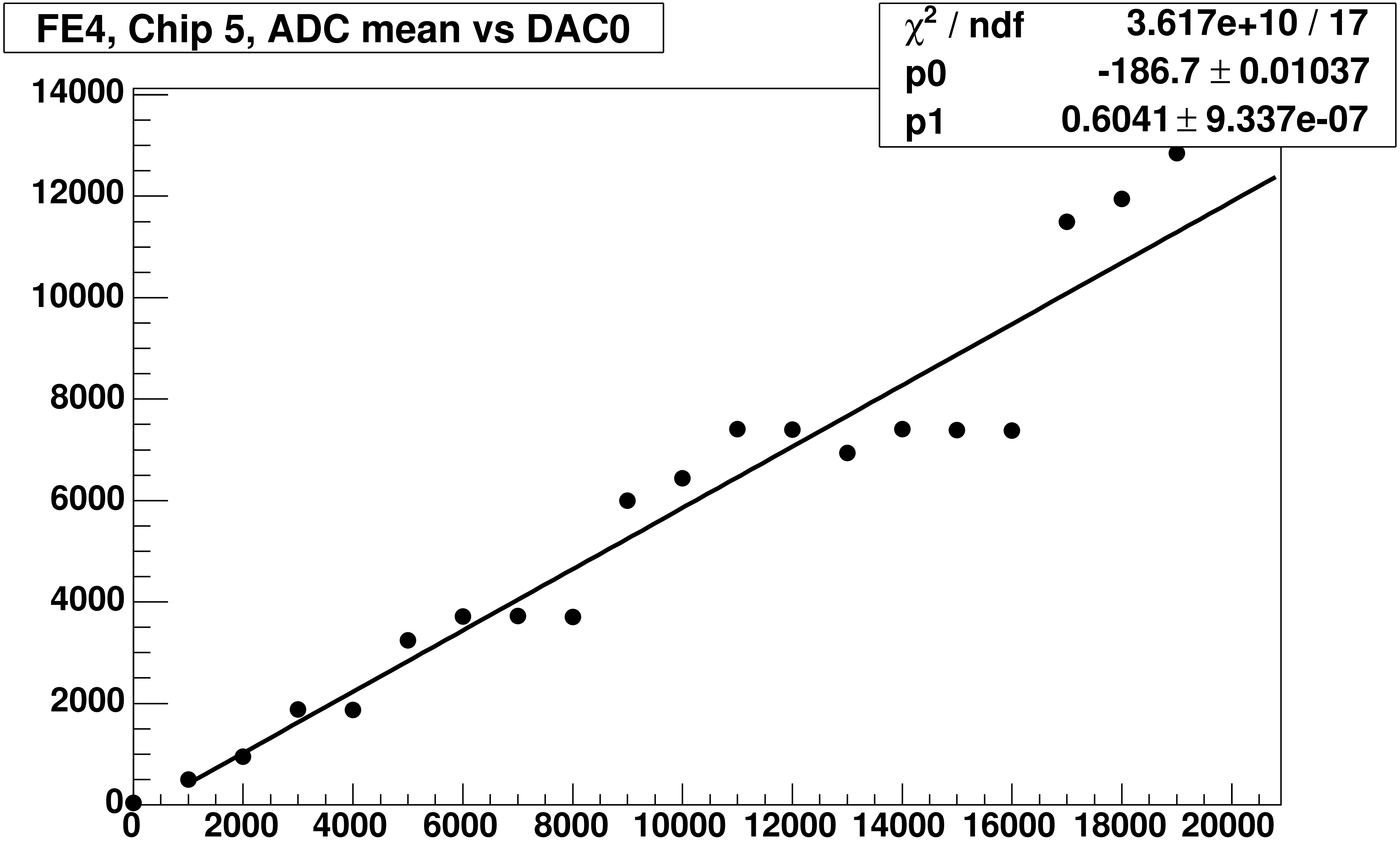

FE4, Chip 4, ADC residuals vs DAC0
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



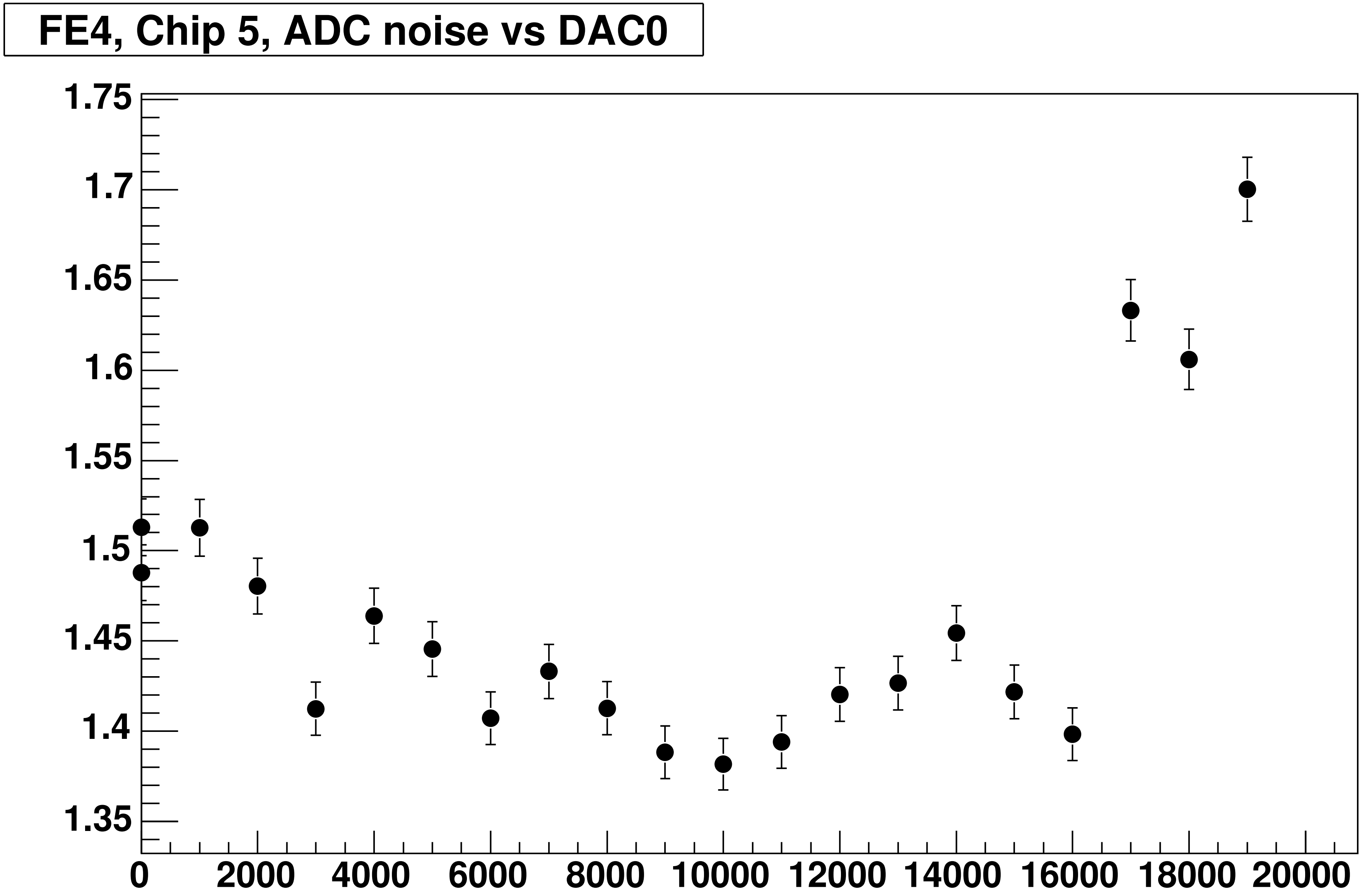
FE4, Chip 4, ADC mean vs DAC1
$\chi^2$ / ndf 33.67 / 17
p0 35.11± 0.03237
p1 1.608e-06 ± 2.841e-06
35.3
35.2
35.1
35
34.9
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

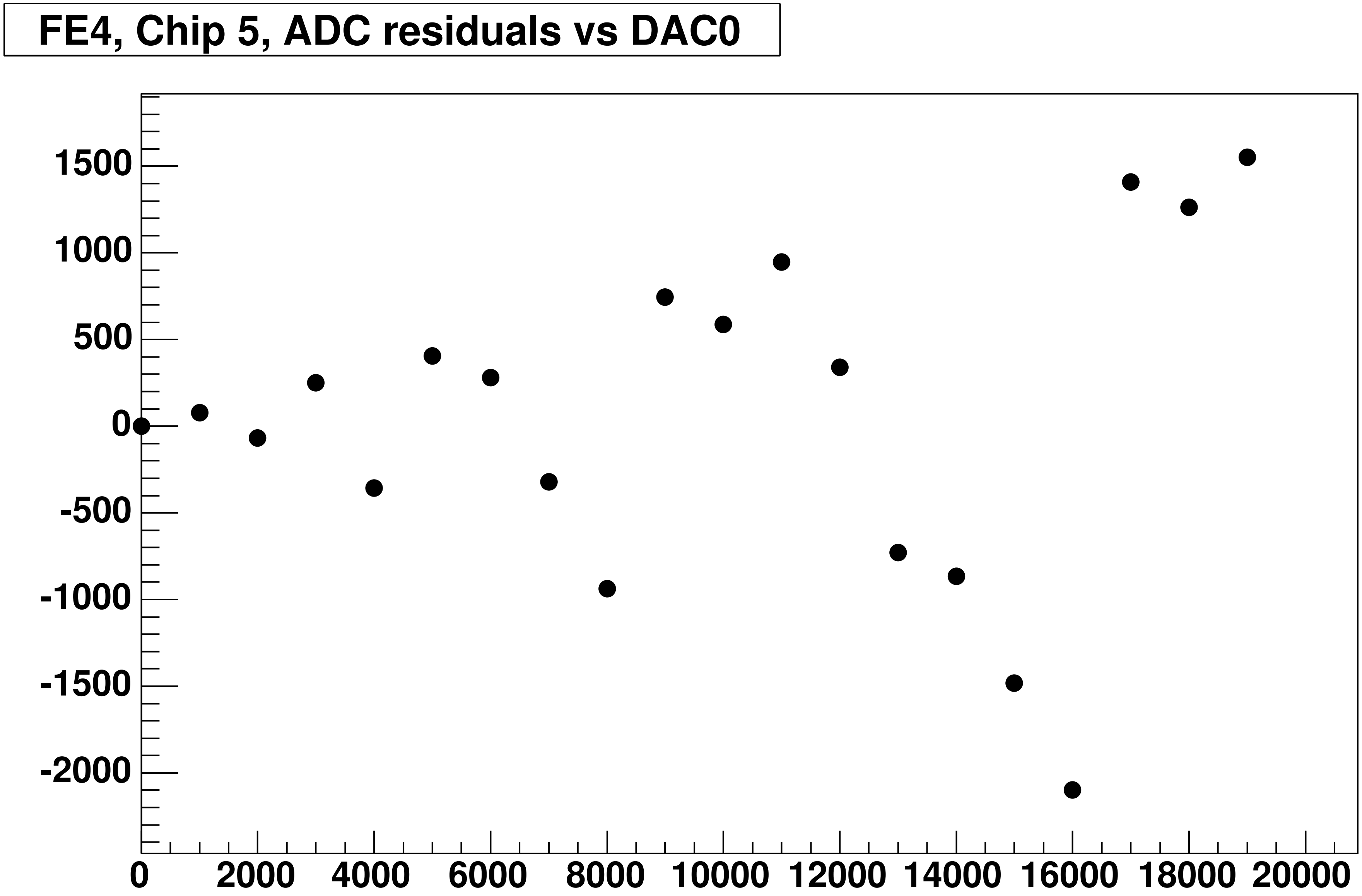

FE4, Chip 4, ADC noise vs DAC1
4.68
4.66
4.64
4.62
4.6
4.58
4.56
4.54
4.52
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

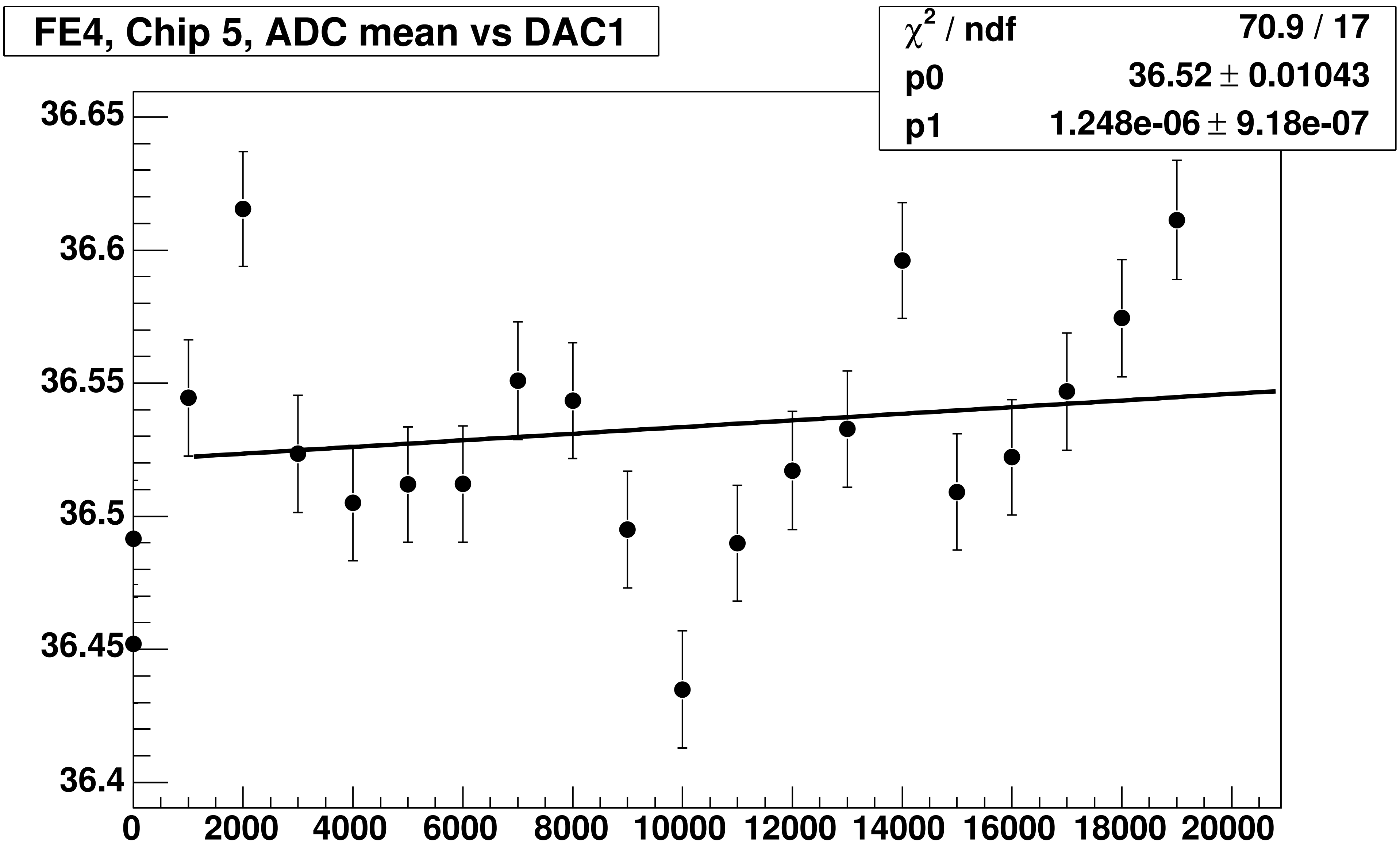

FE4, Chip 4, ADC residuals vs DAC1
0.2
0.1
0
-0.1
-0.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



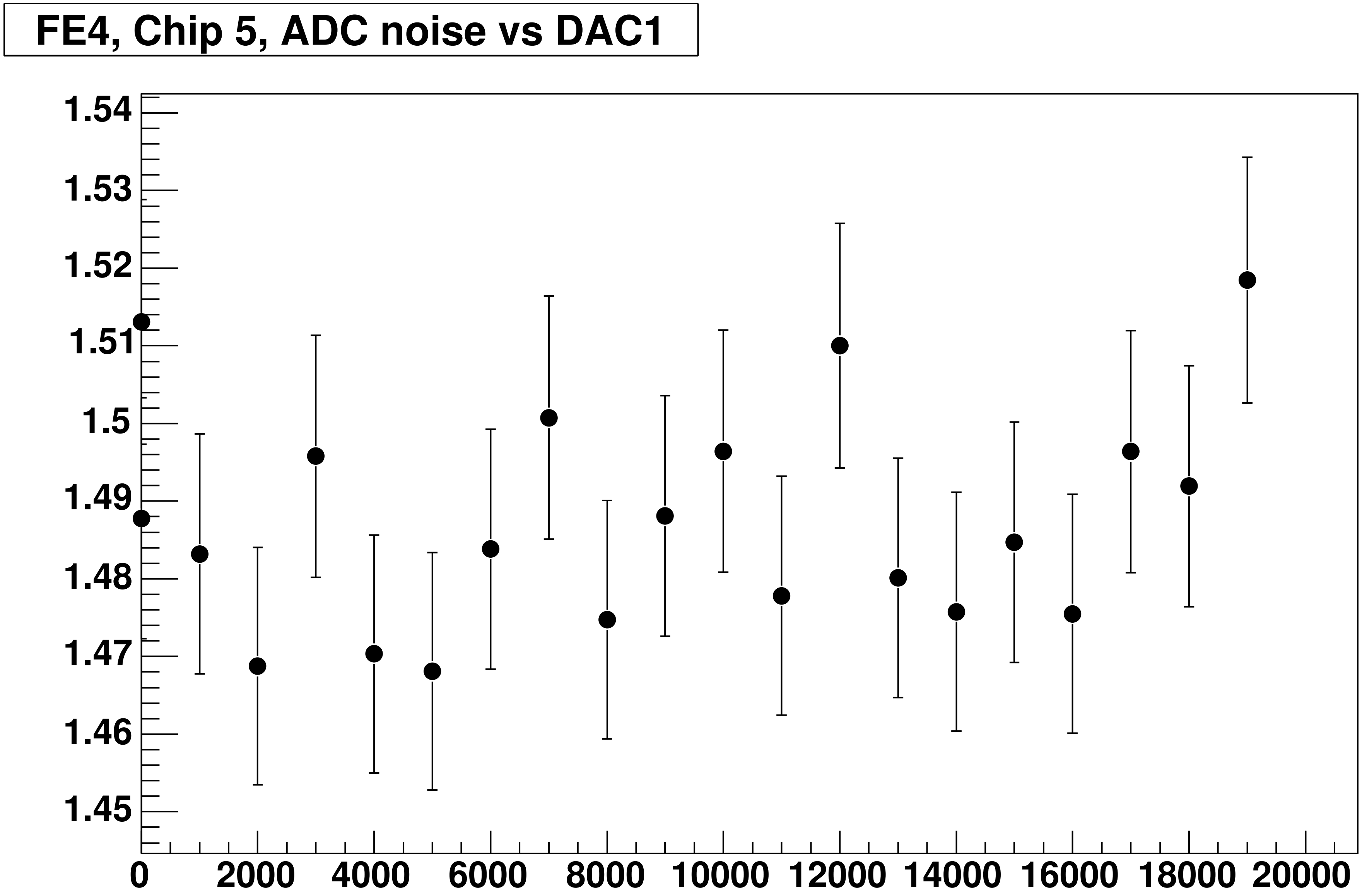
FE4, Chip 5, ADC mean vs DAC0
$\chi^2$ / ndf 3.617e+10 / 17
p0 -186.7 ± 0.01037
p1 0.6041 ± 9.337e-07
0
2000
4000
6000
8000
10000
12000
14000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE4, Chip 5, ADC noise vs DAC0
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

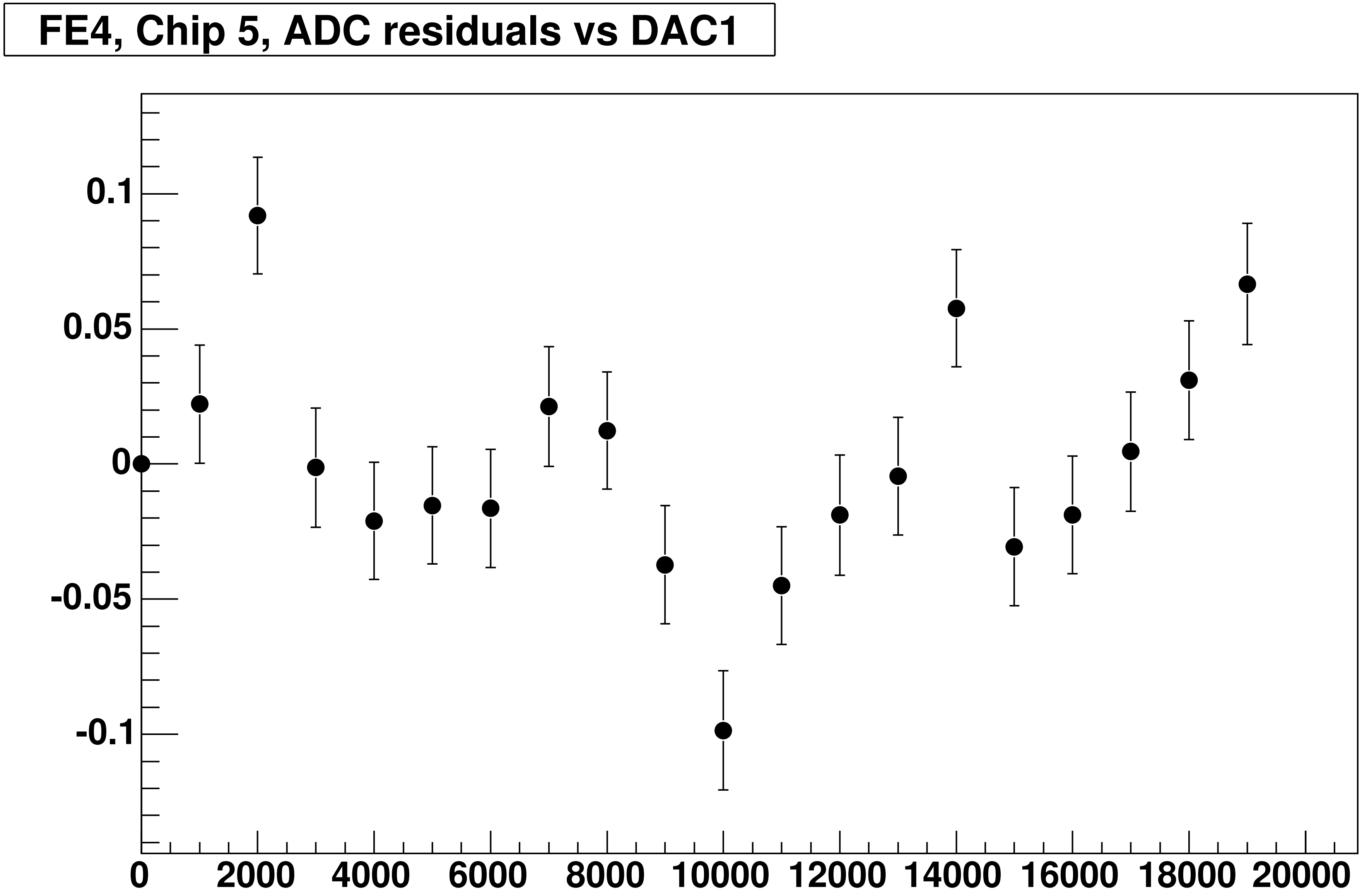

FE4, Chip 5, ADC residuals vs DAC0
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

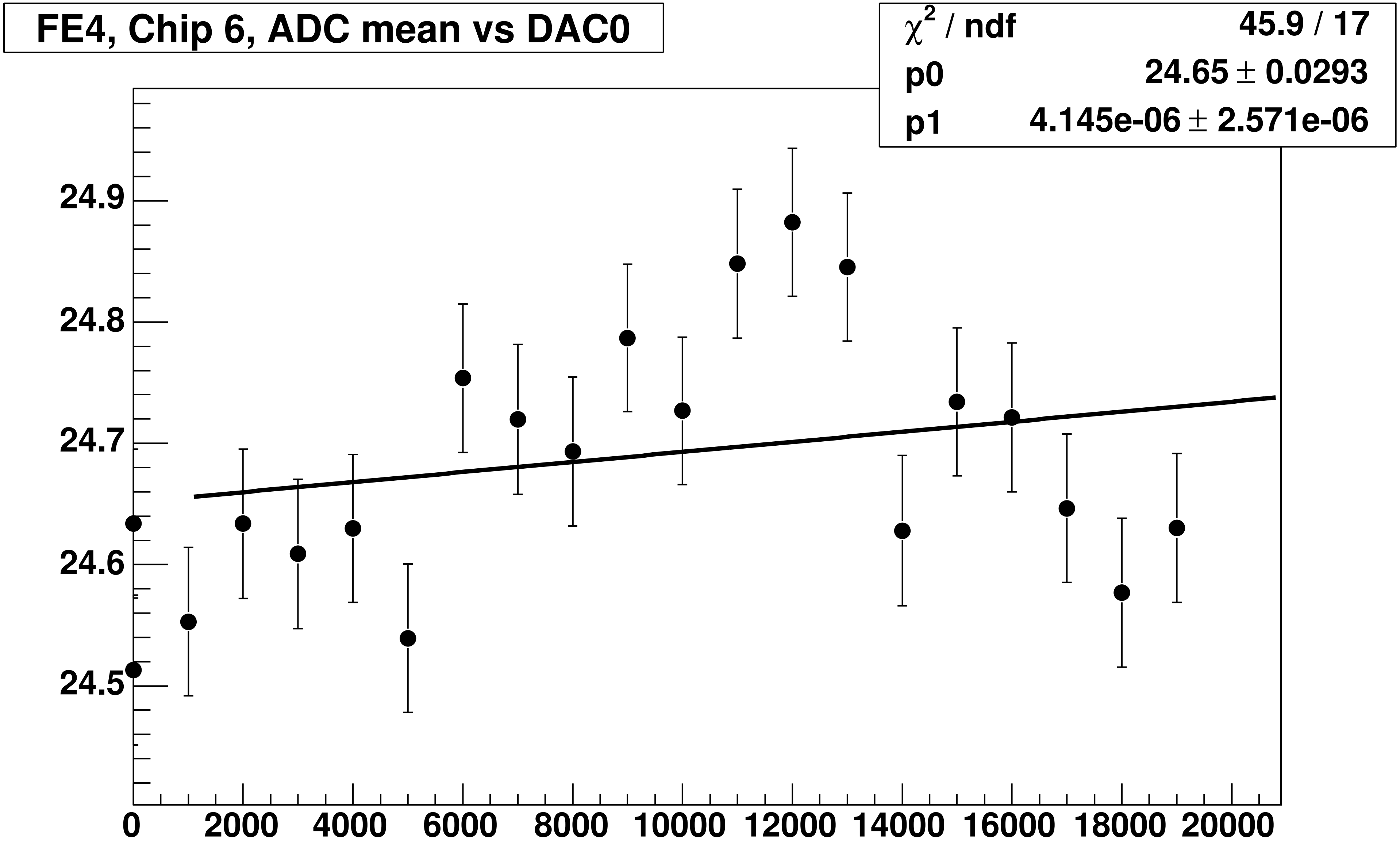


FE4, Chip 5, ADC mean vs DAC1
$\chi^2$ / ndf 70.9 / 17
p0 36.52 ± 0.01043
p1 1.248e-06 ± 9.18e-07
36.65
36.6
36.55
36.5
36.45
36.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

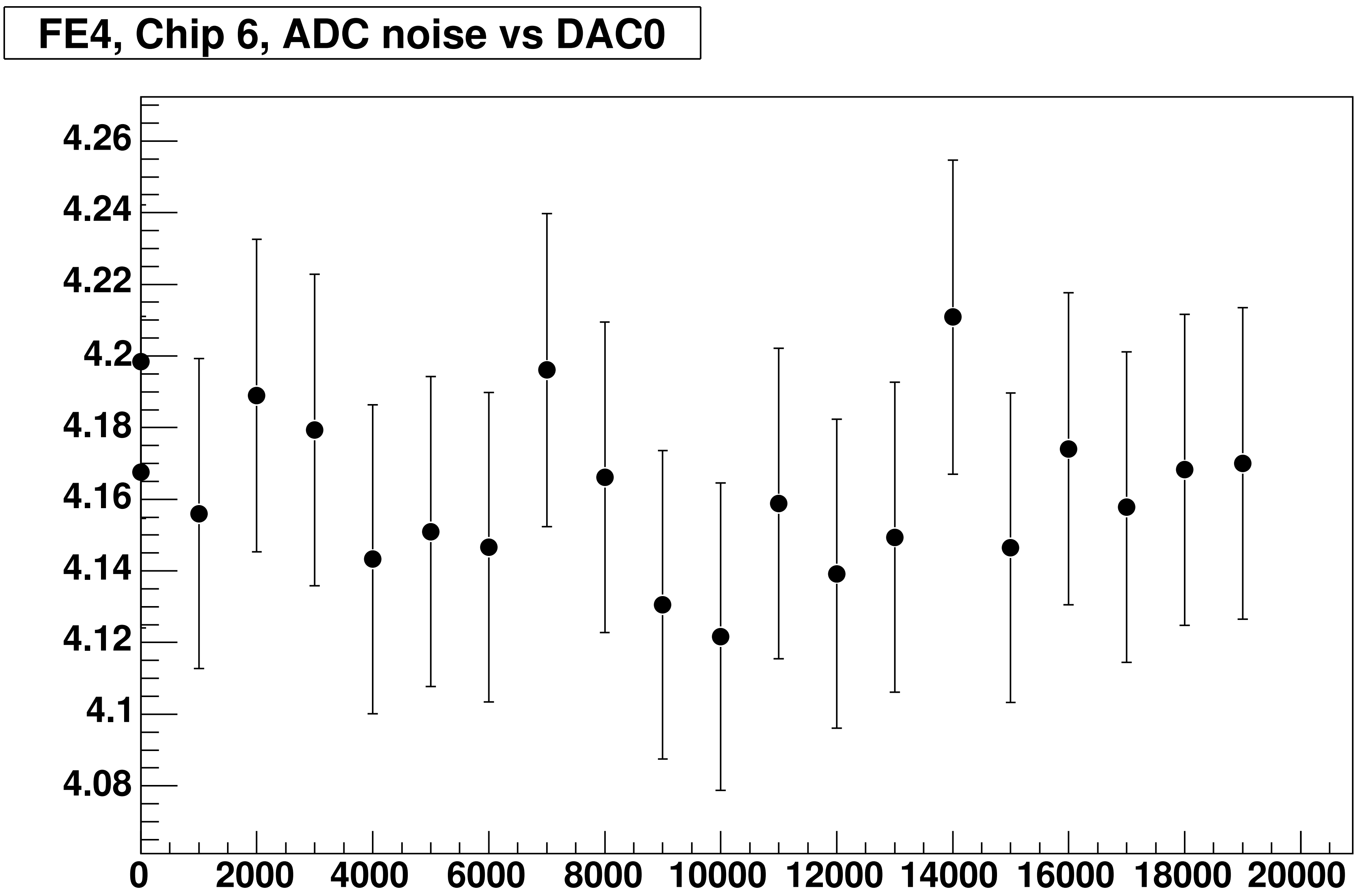


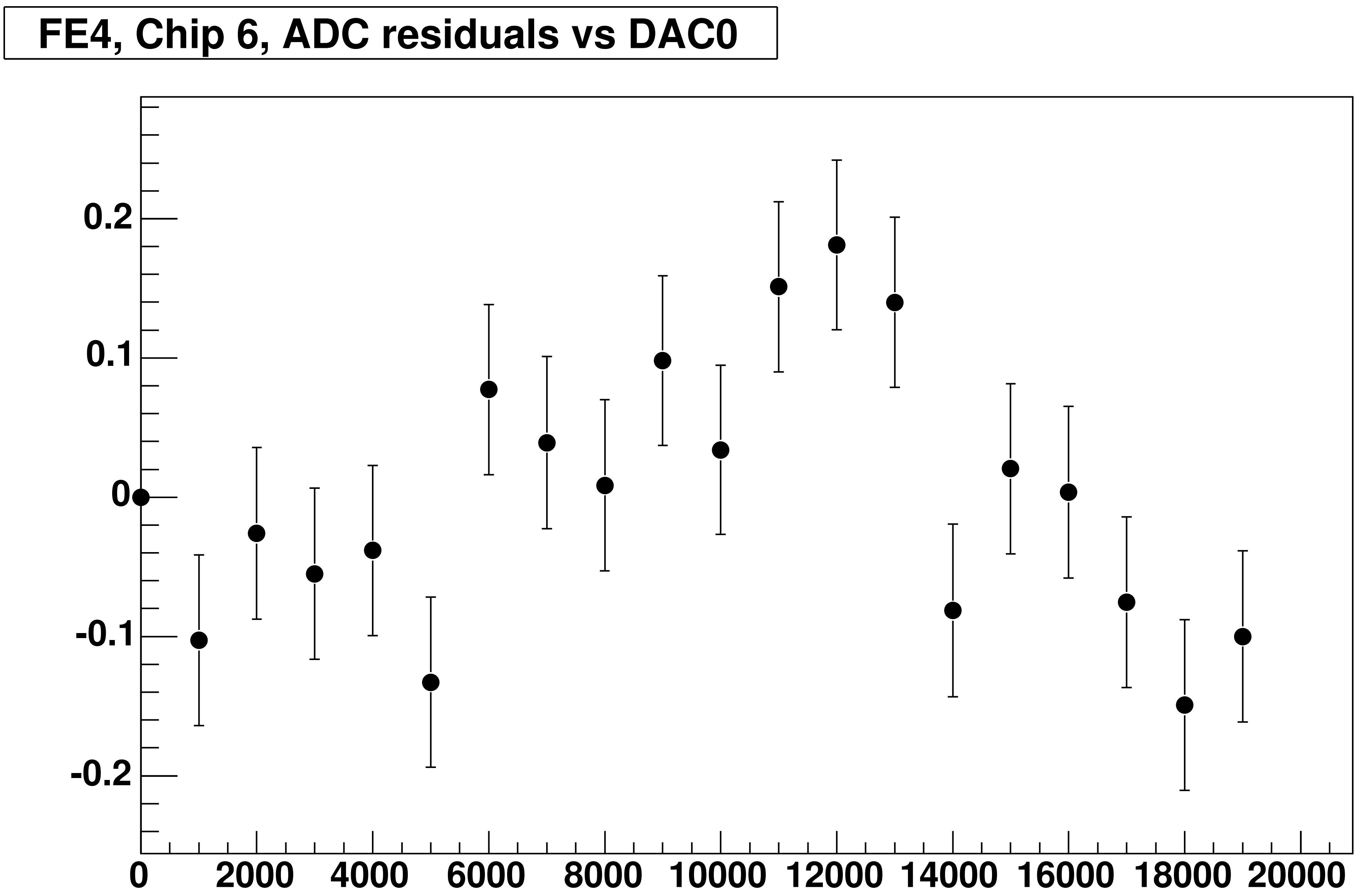
FE4, Chip 5, ADC noise vs DAC1
1.54
1.53
1.52
1.51
1.5
1.49
1.48
1.47
1.46
1.45
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

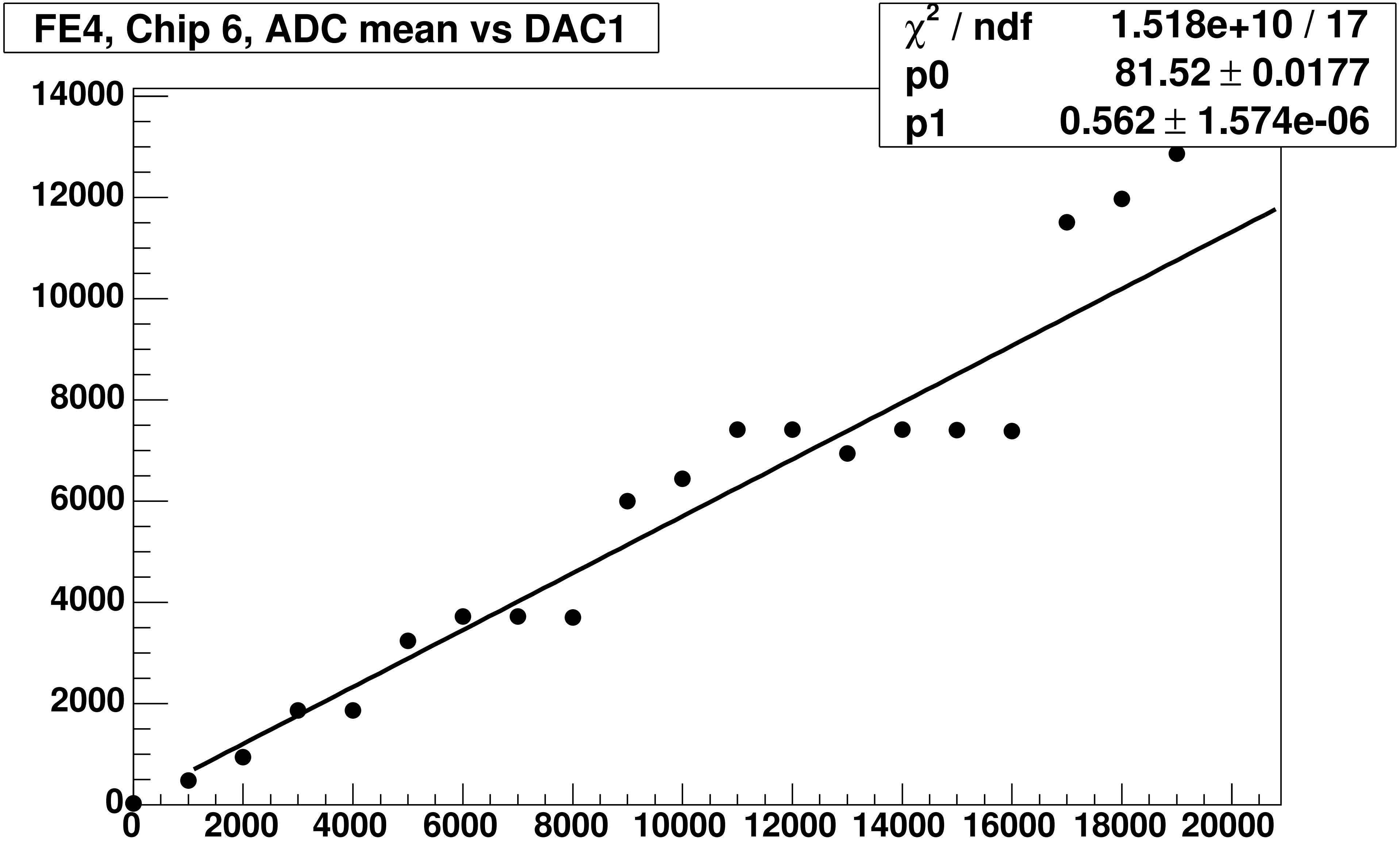

FE4, Chip 5, ADC residuals vs DAC1
0.1
0.05
0
-0.05
-0.1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

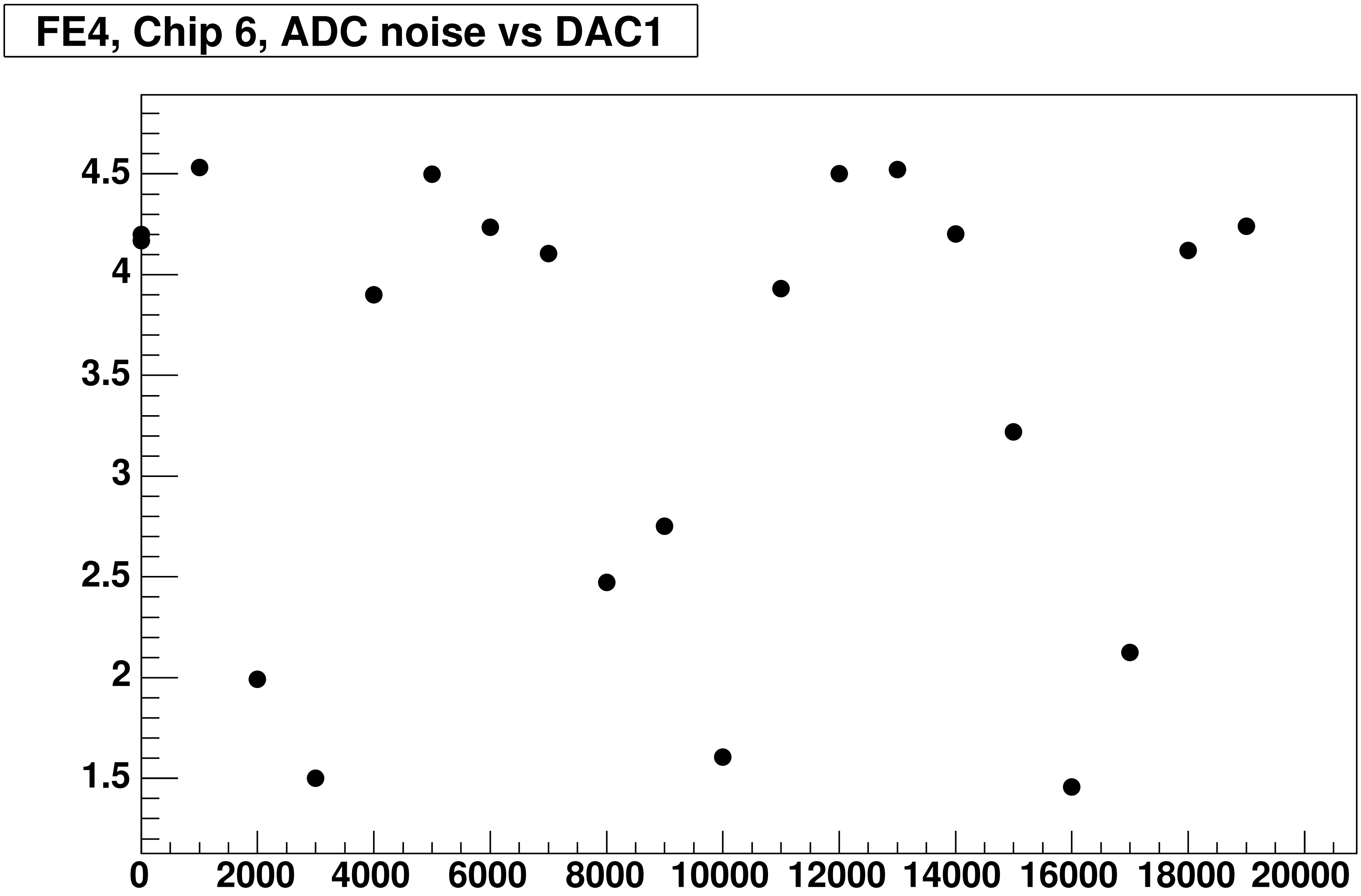


FE4, Chip 6, ADC mean vs DAC0
χ² / ndf 45.9 / 17
p0 24.65 ± 0.0293
p1 4.145e-06 ± 2.571e-06
24.9
24.8
24.7
24.6
24.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

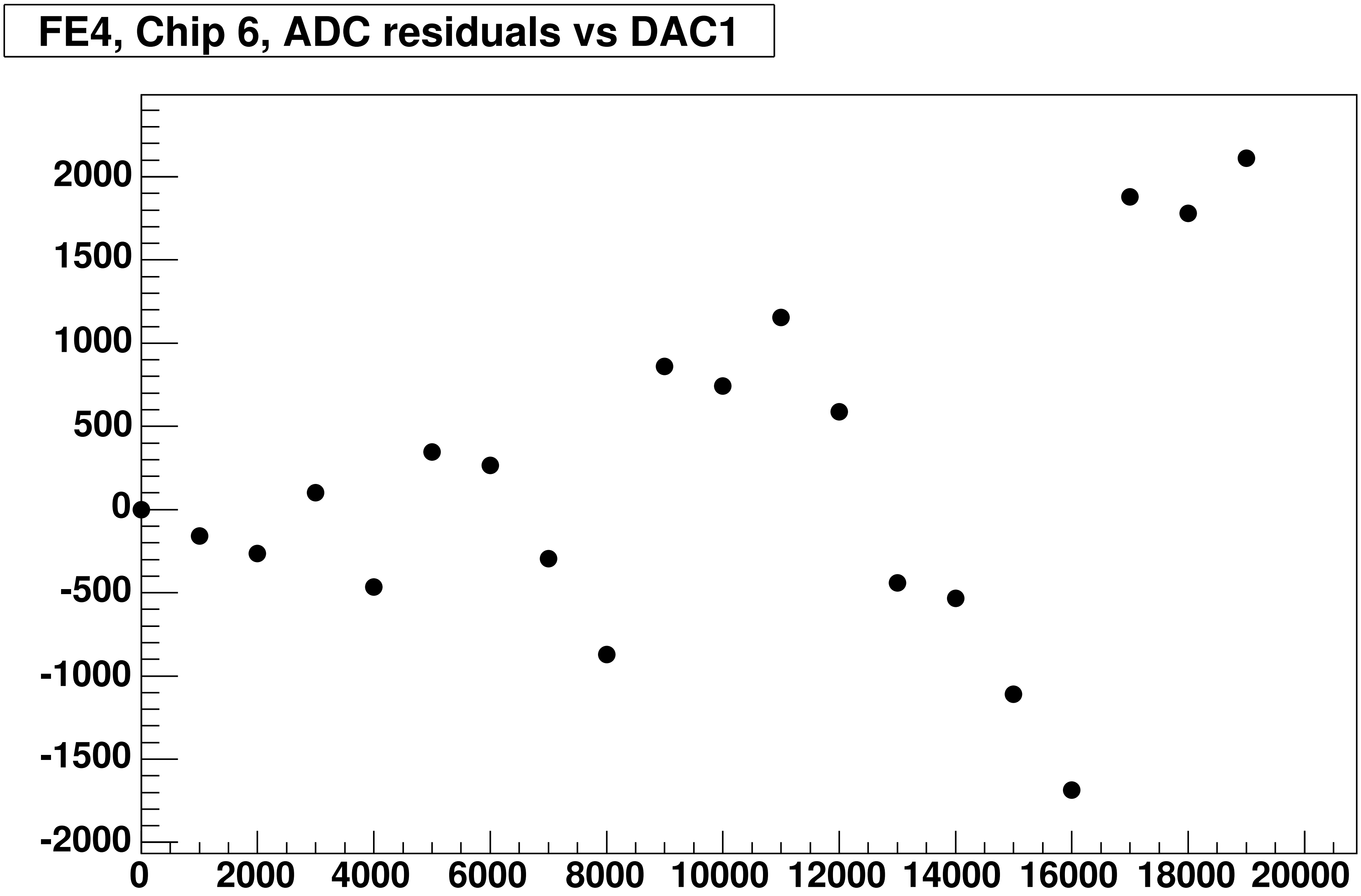

FE4, Chip 6, ADC noise vs DAC0
4.26
4.24
4.22
4.2
4.18
4.16
4.14
4.12
4.1
4.08
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

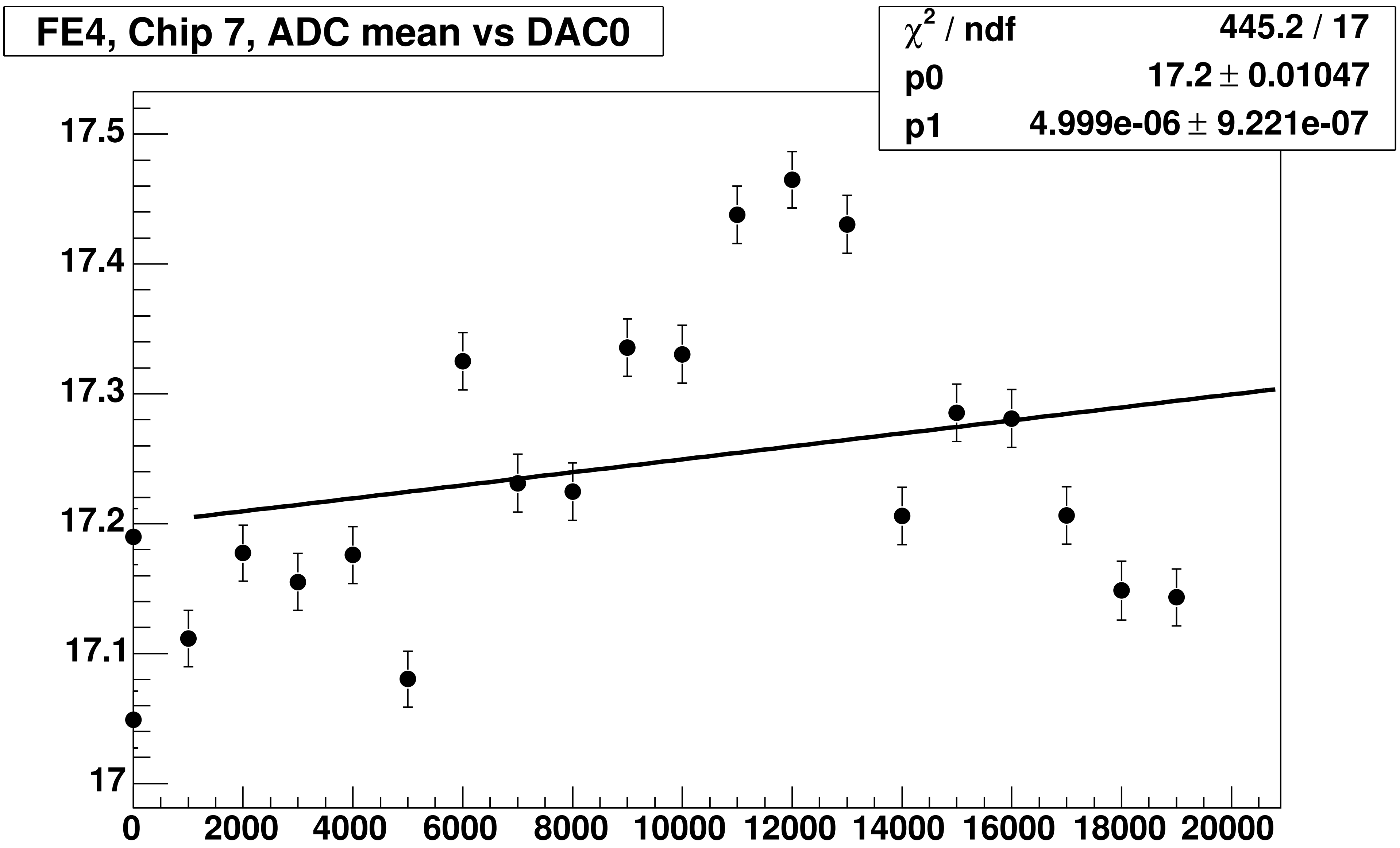

FE4, Chip 6, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

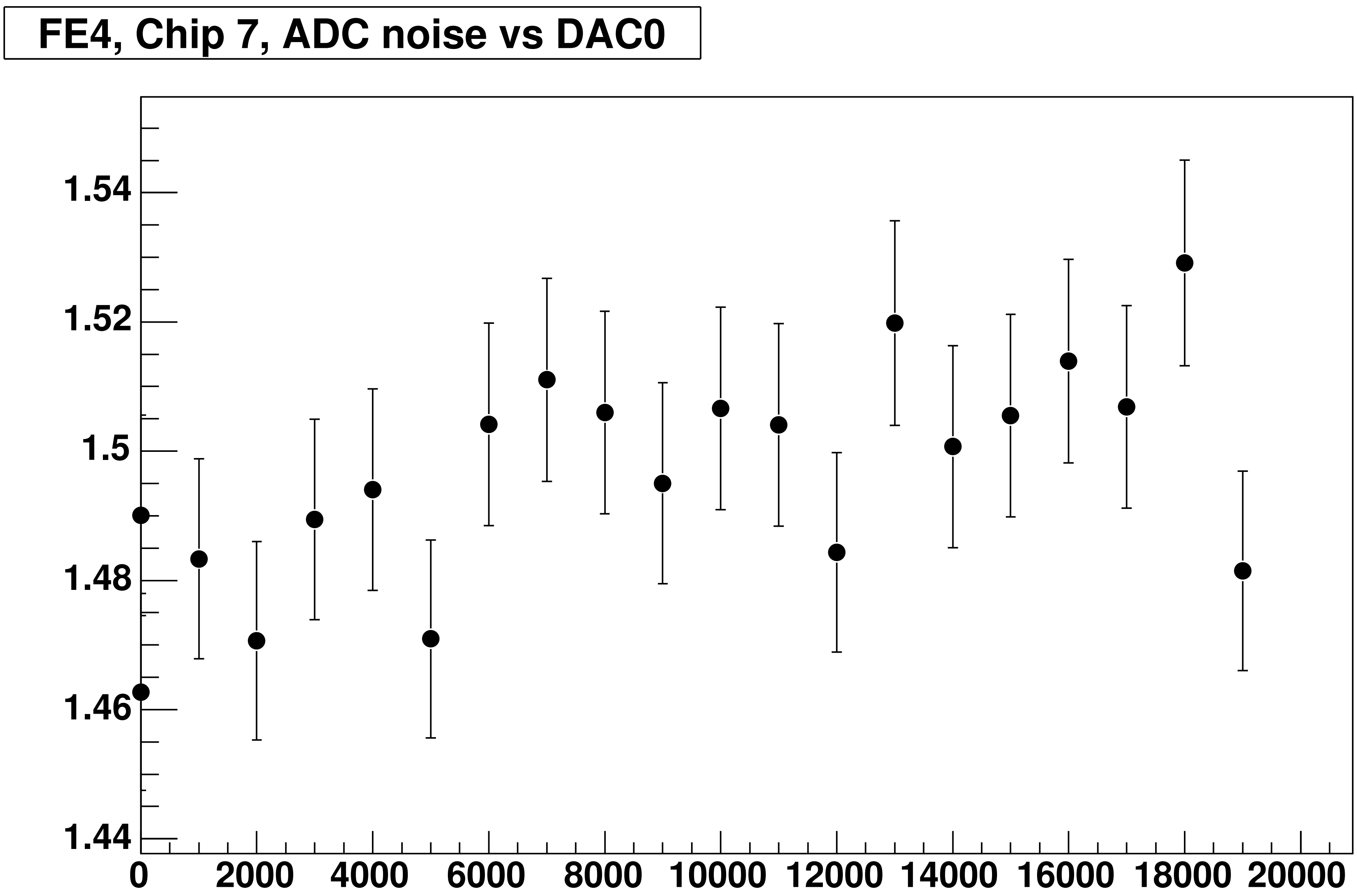

FE4, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 1.518e+10 / 17
p0 81.52 ± 0.0177
p1 0.562 ± 1.574e-06
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
2000
4000
6000
8000
10000
12000
14000

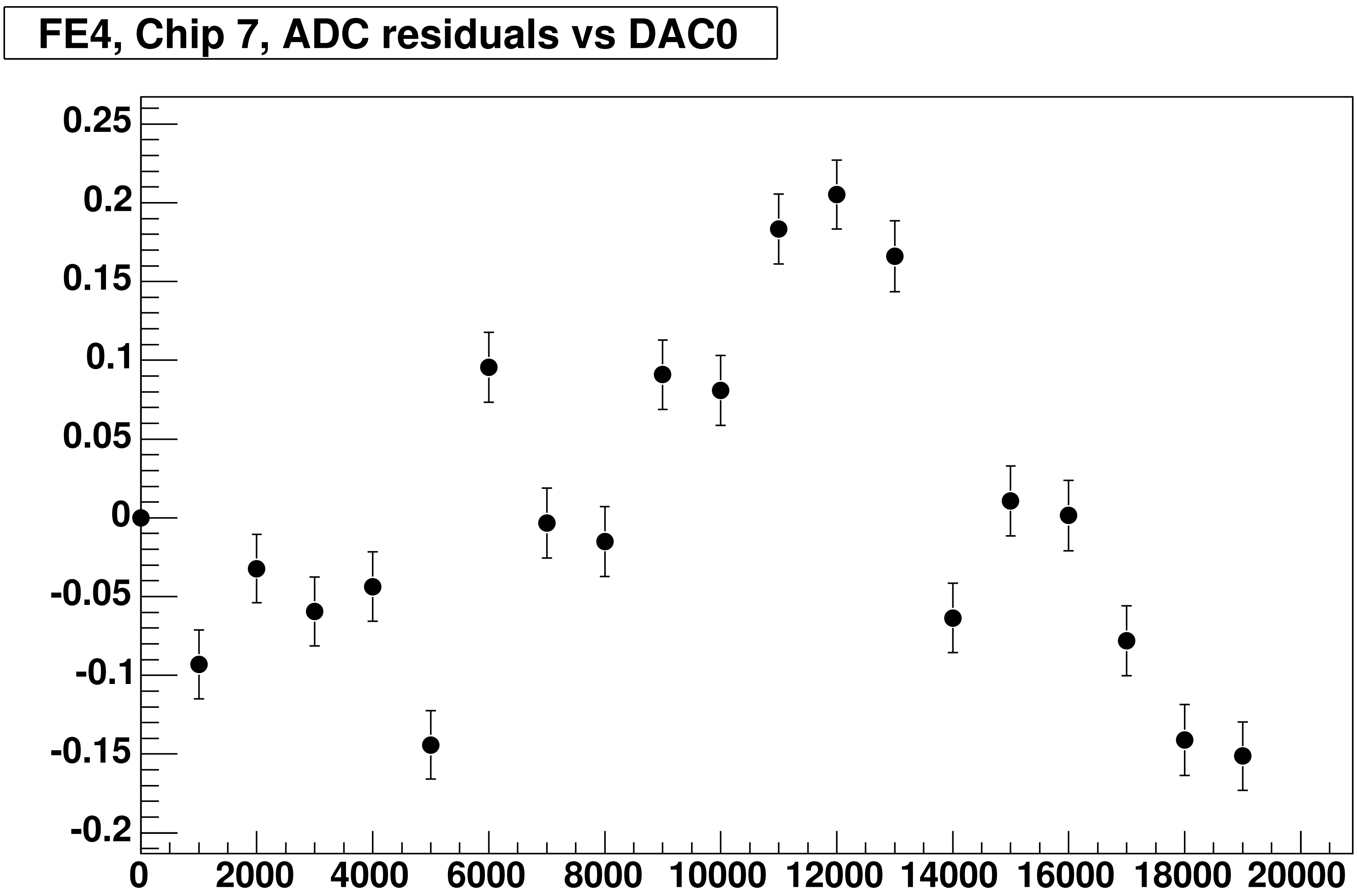


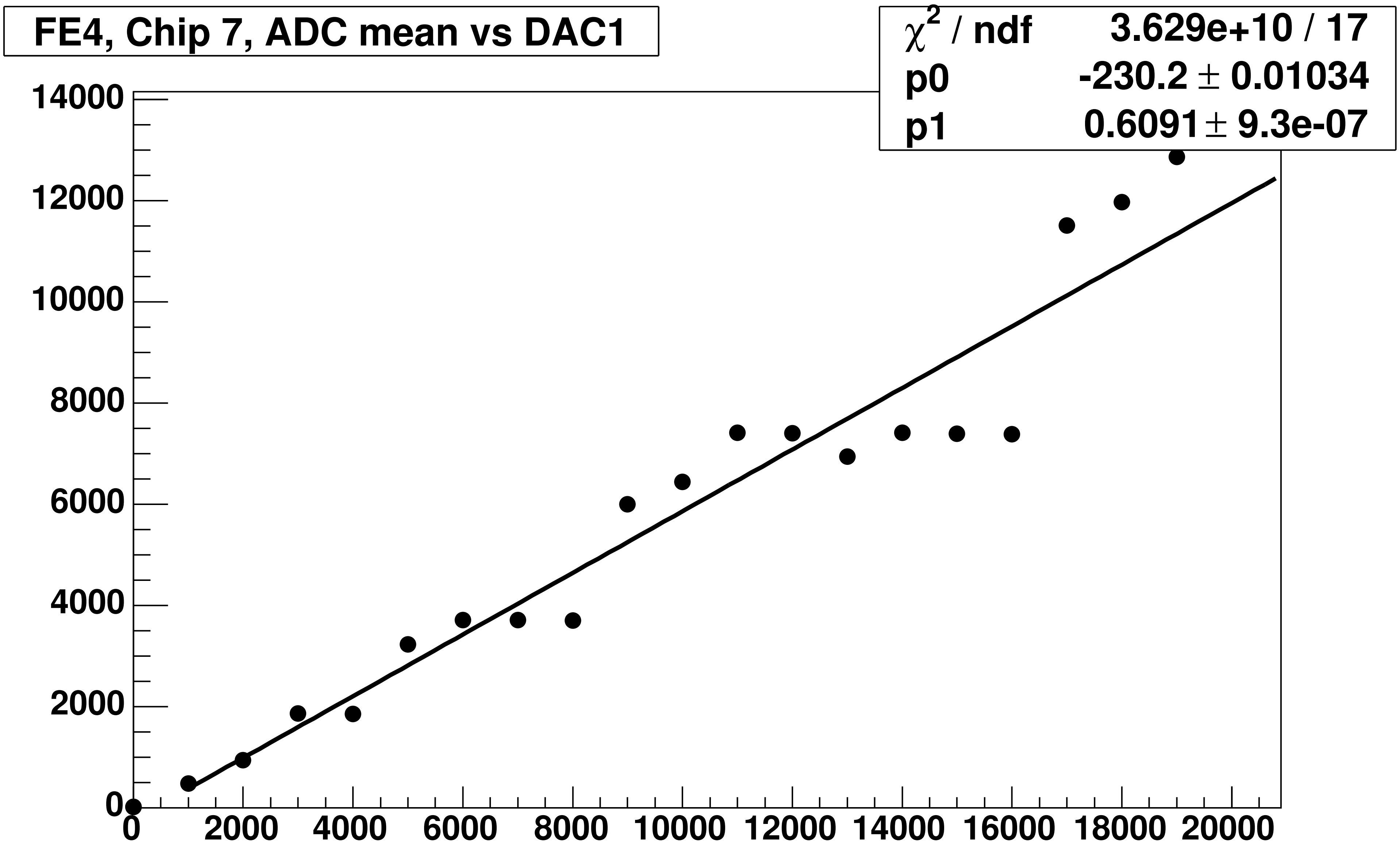
FE4, Chip 6, ADC noise vs DAC1
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE4, Chip 6, ADC residuals vs DAC1
2000
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

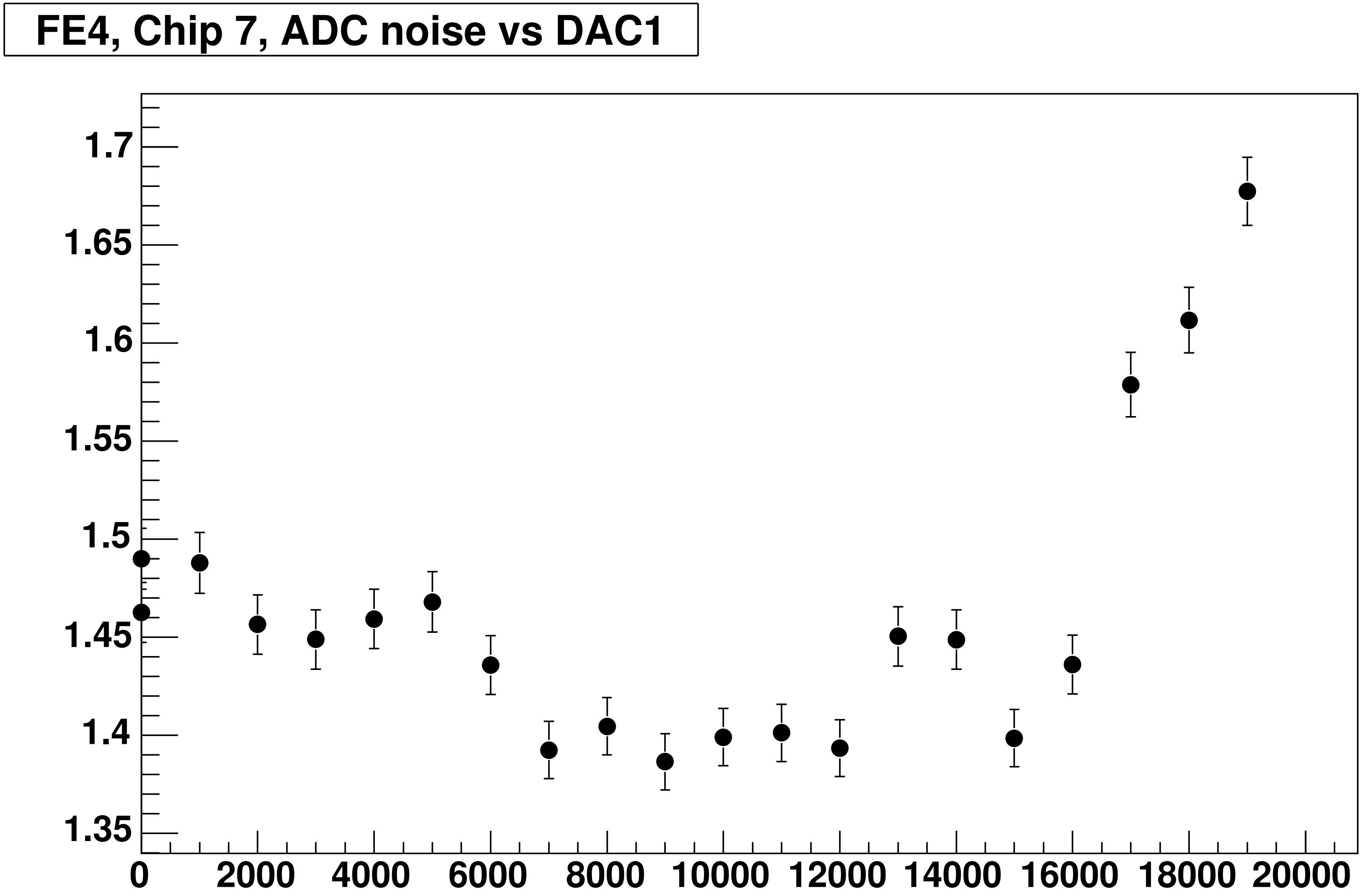

FE4, Chip 7, ADC mean vs DAC0
$\chi^2$ / ndf 445.2 / 17
p0 17.2 ± 0.01047
p1 4.999e-06 ± 9.221e-07
17.5
17.4
17.3
17.2
17.1
17
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

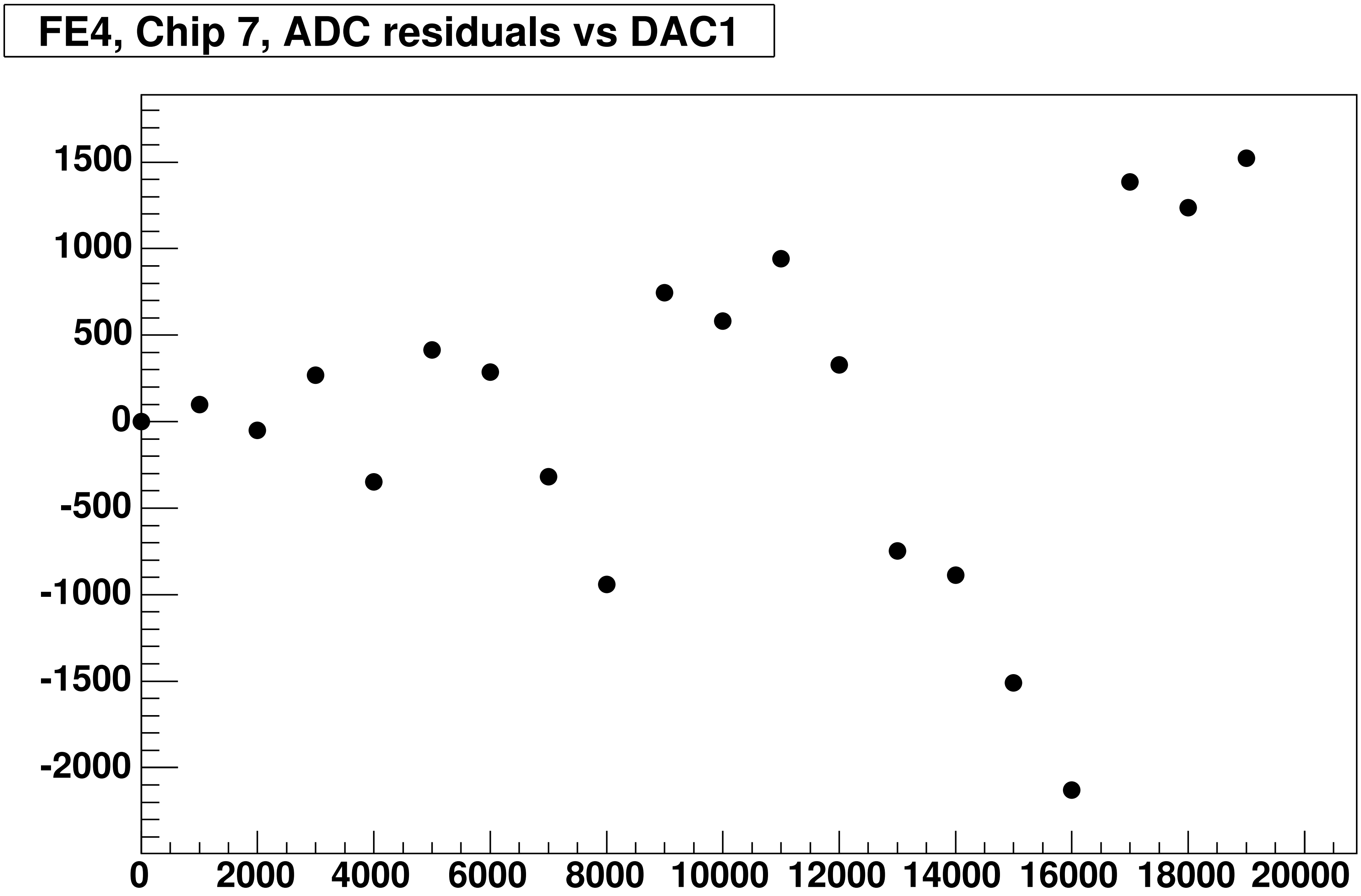

FE4, Chip 7, ADC noise vs DAC0
1.54
1.52
1.5
1.48
1.46
1.44
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

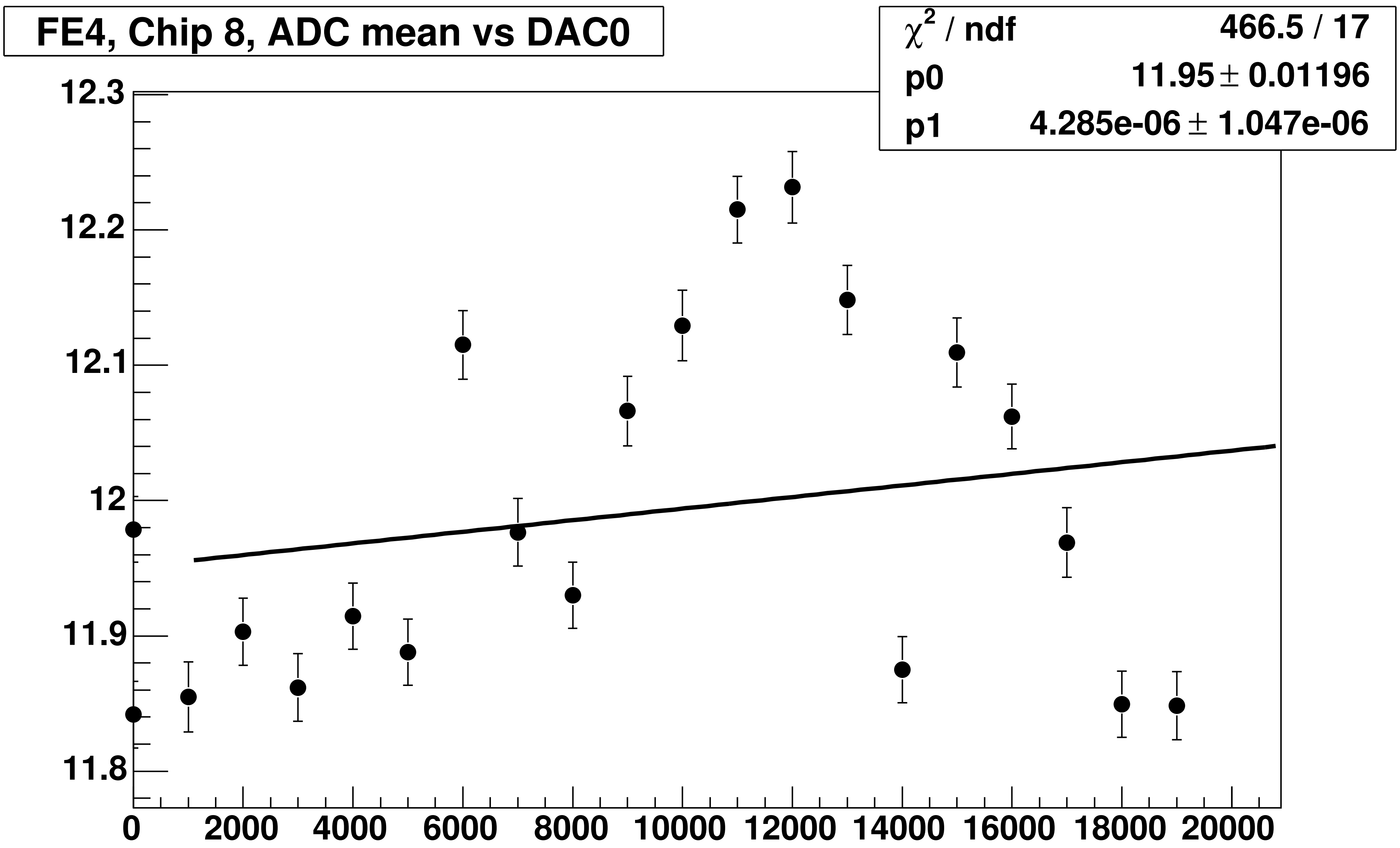

FE4, Chip 7, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

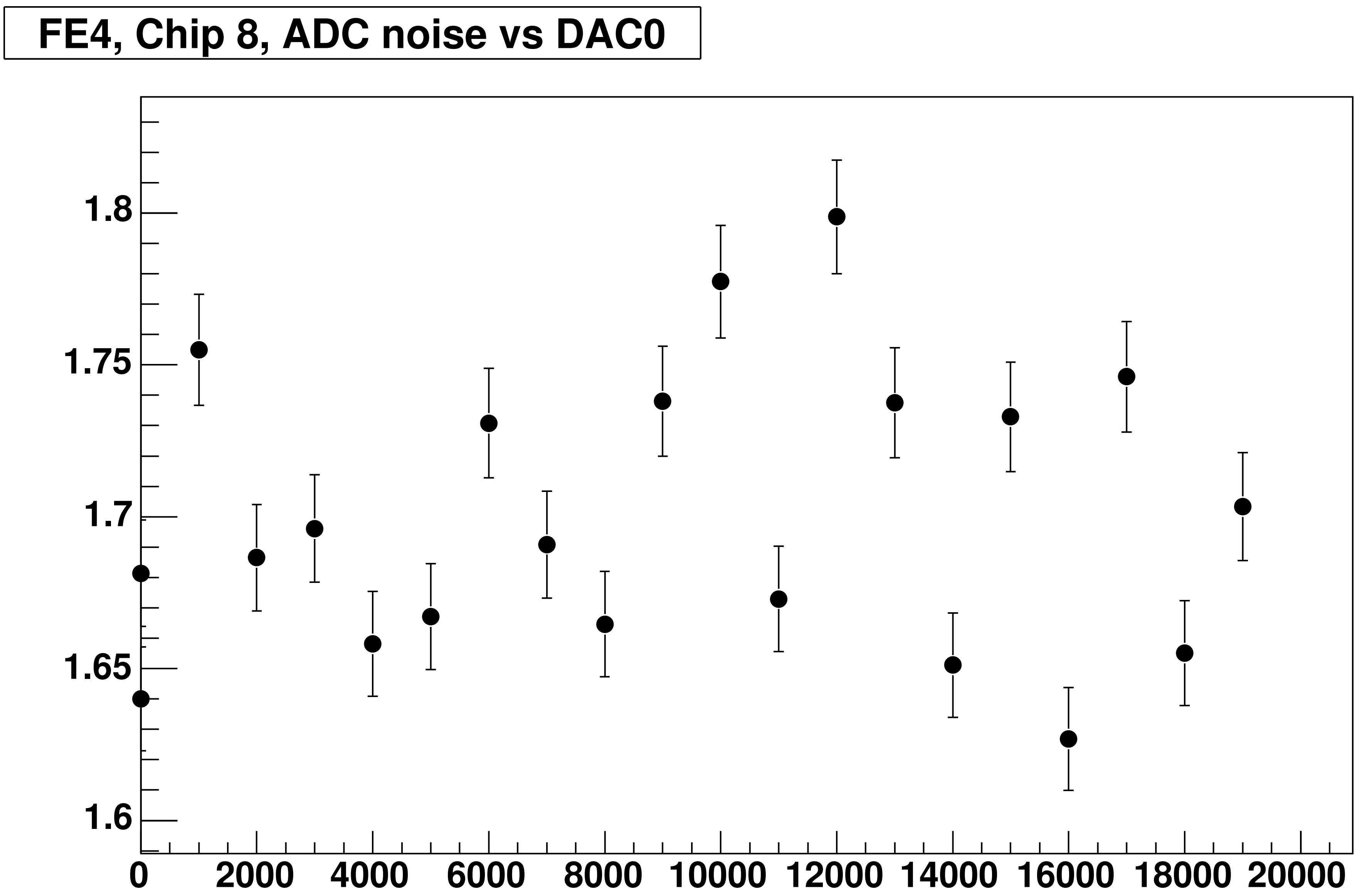


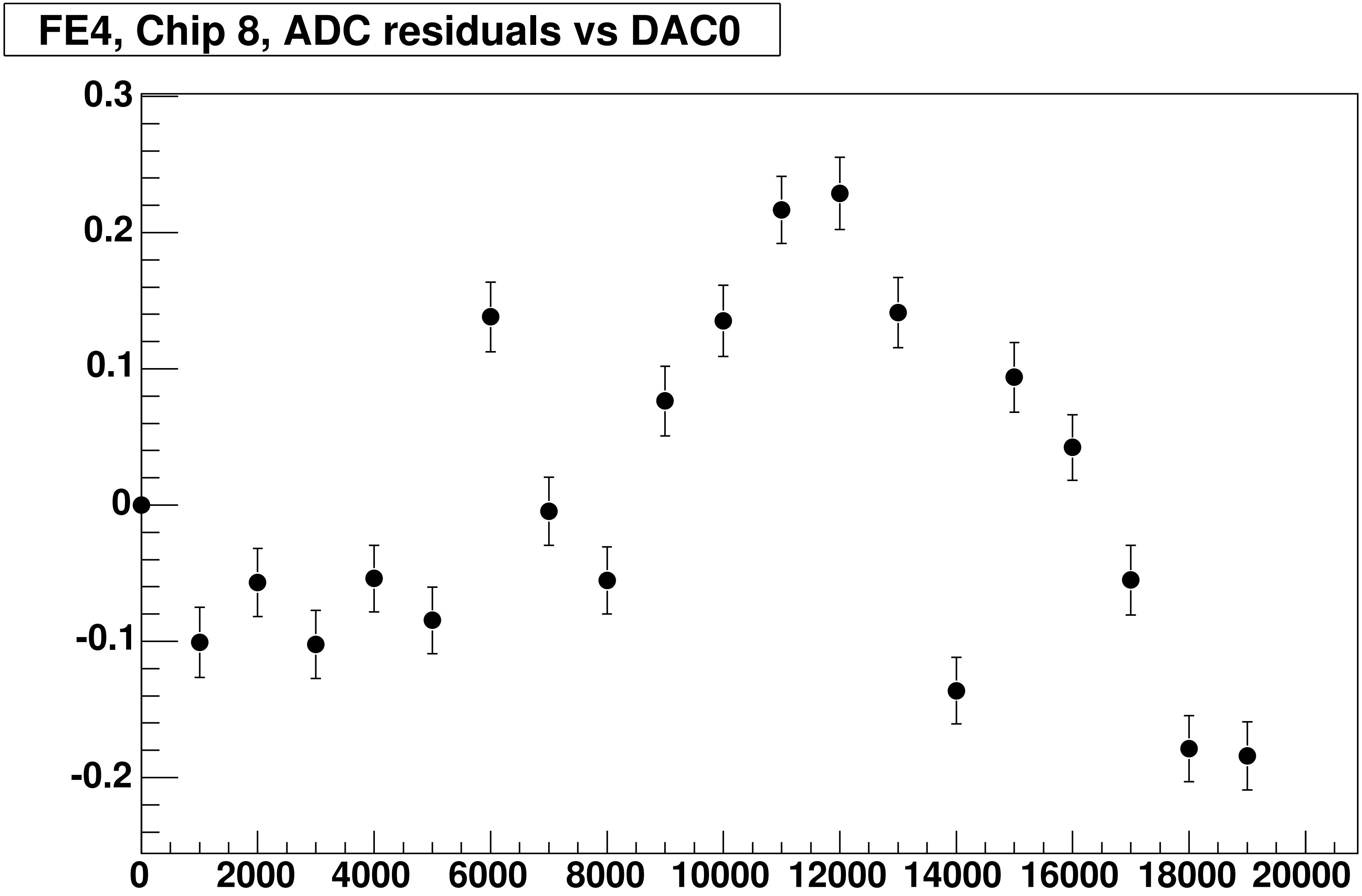
FE4, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 3.629e+10 / 17
p0 -230.2 ± 0.01034
p1 0.6091 ± 9.3e-07
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

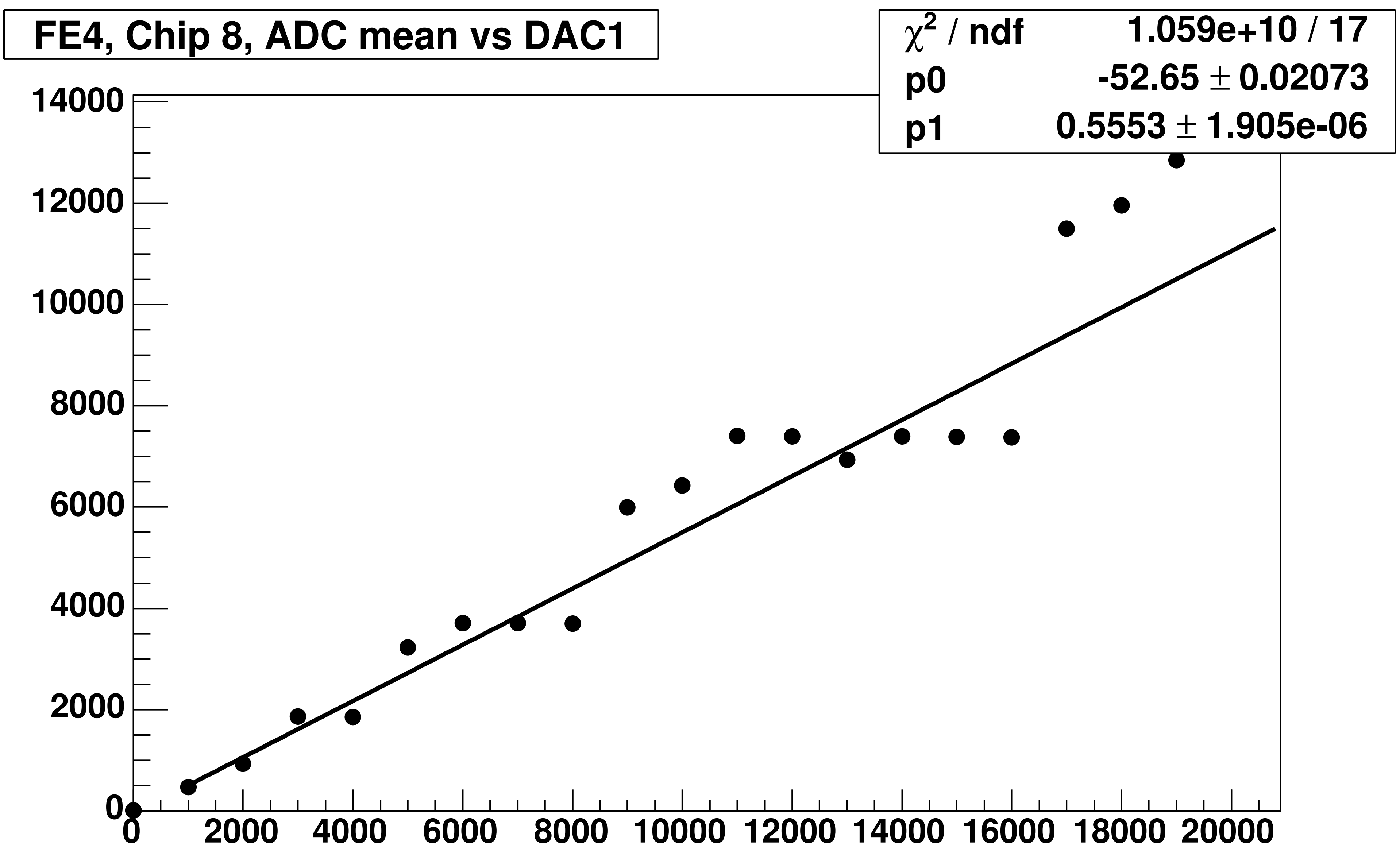

FE4, Chip 7, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE4, Chip 7, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

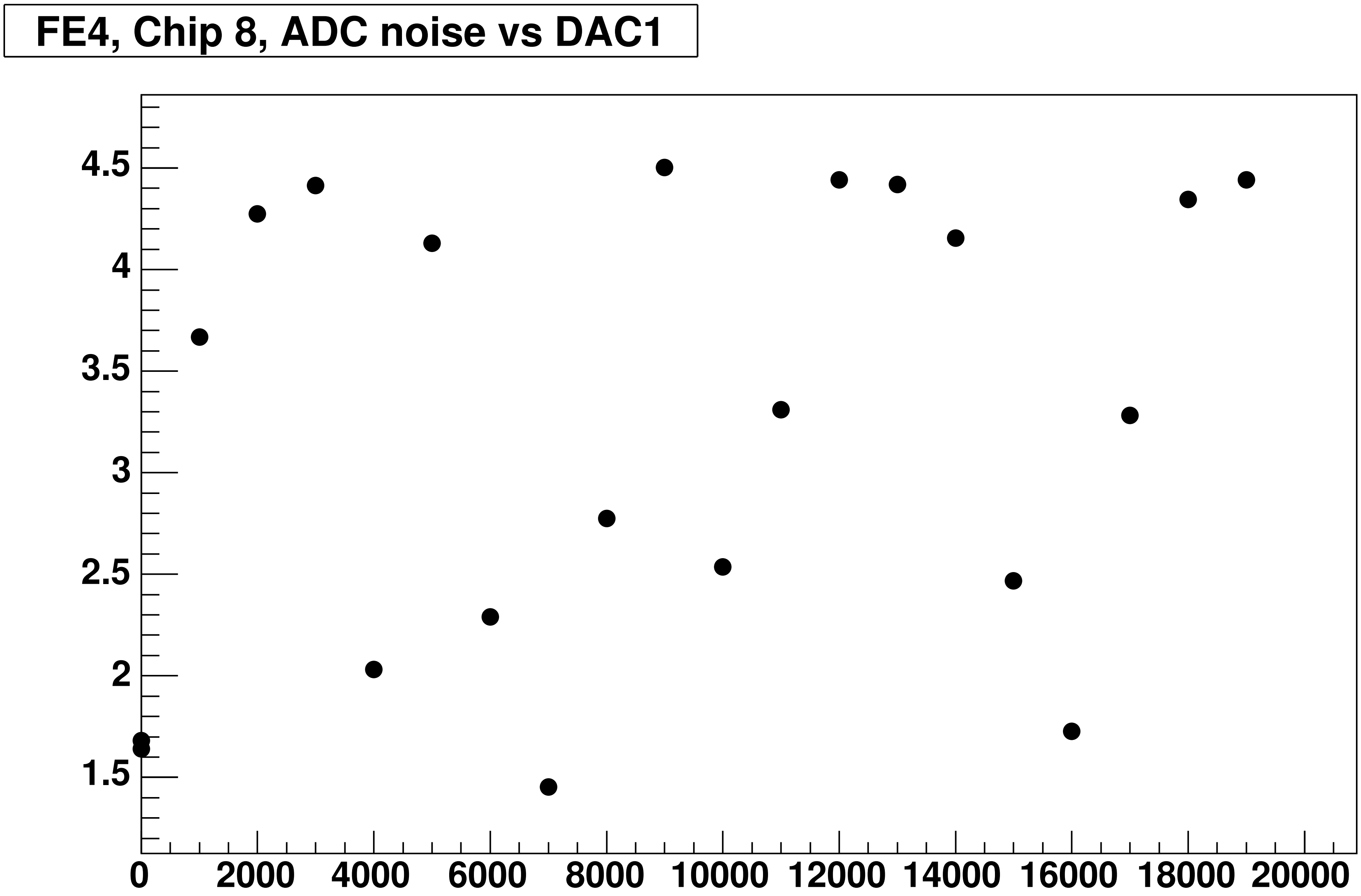

FE4, Chip 8, ADC mean vs DAC0
χ² / ndf 466.5 / 17
p0 11.95 ± 0.01196
p1 4.285e-06 ± 1.047e-06
12.3
12.2
12.1
12
11.9
11.8
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

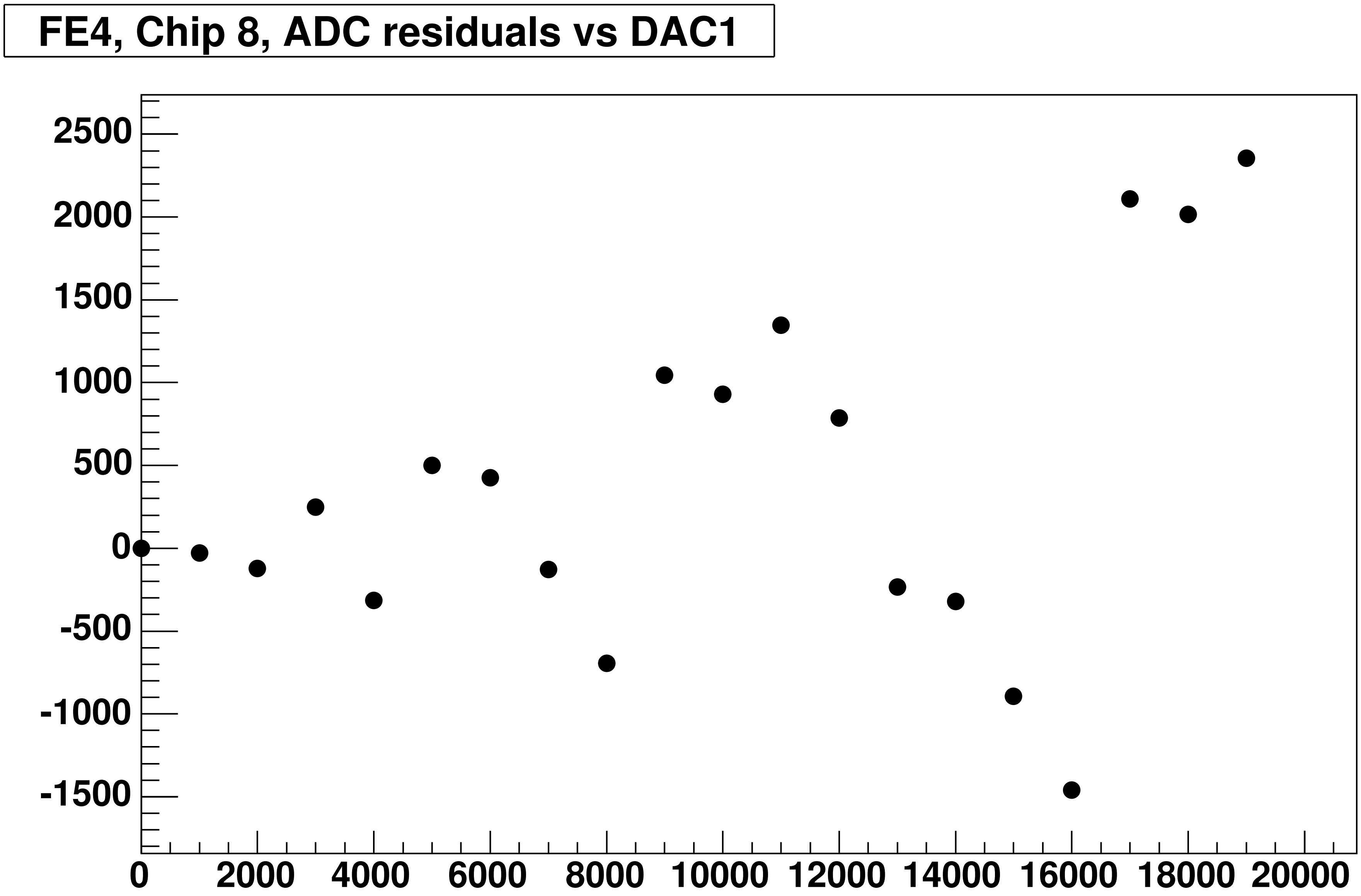

FE4, Chip 8, ADC noise vs DAC0
1.8
1.75
1.7
1.65
1.6
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

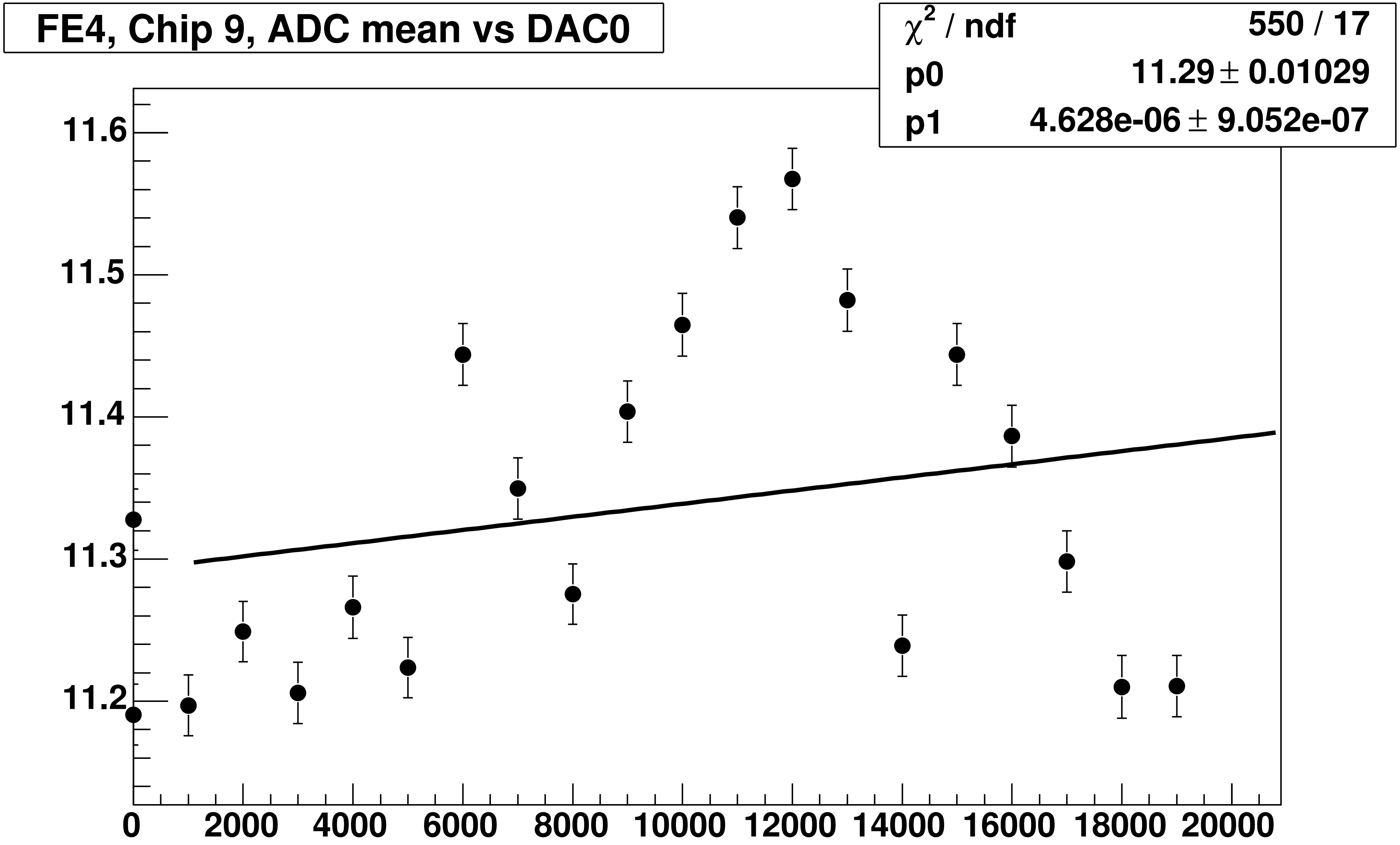

FE4, Chip 8, ADC residuals vs DAC0
0.3
0.2
0.1
0
-0.1
-0.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

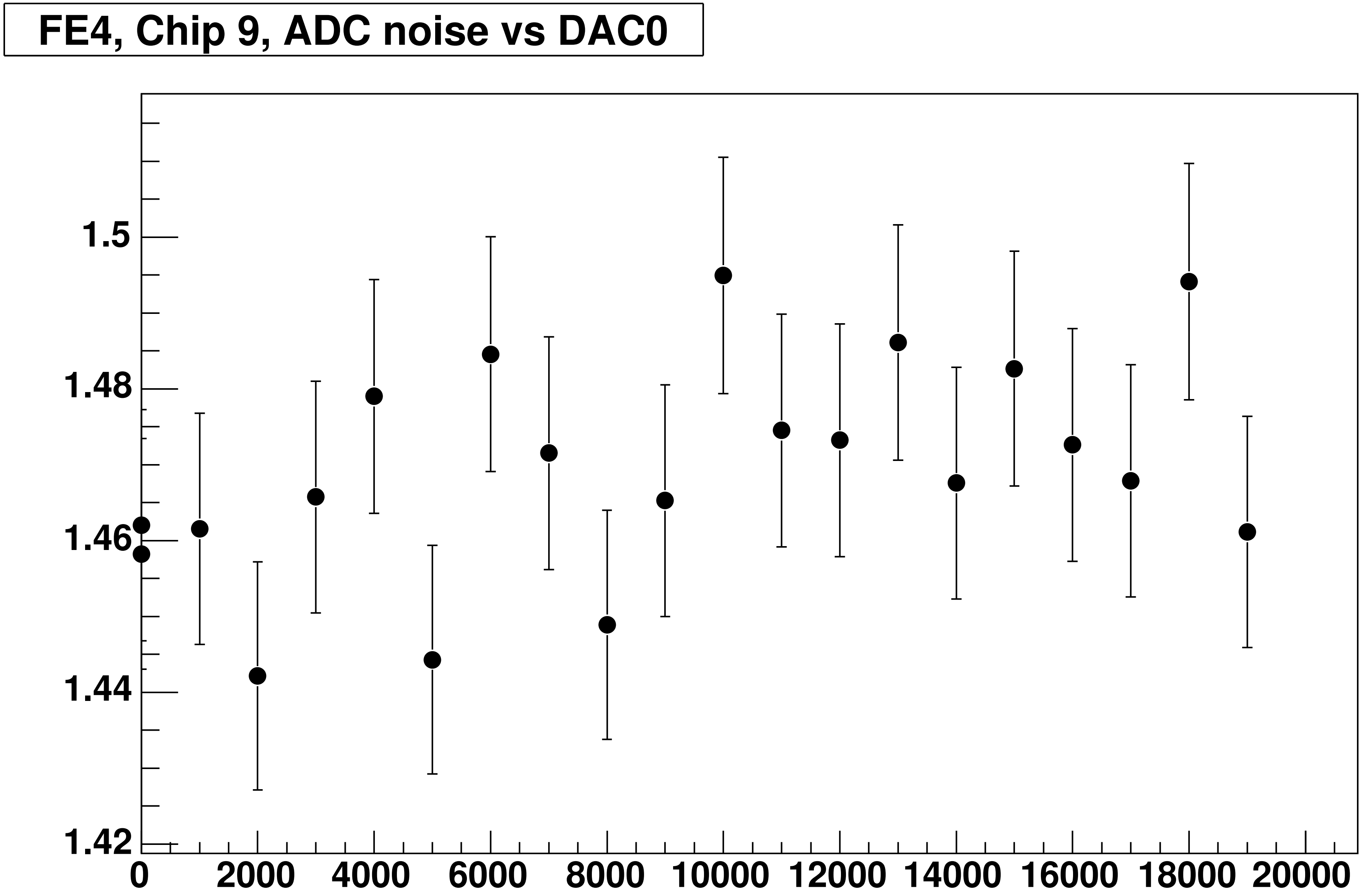


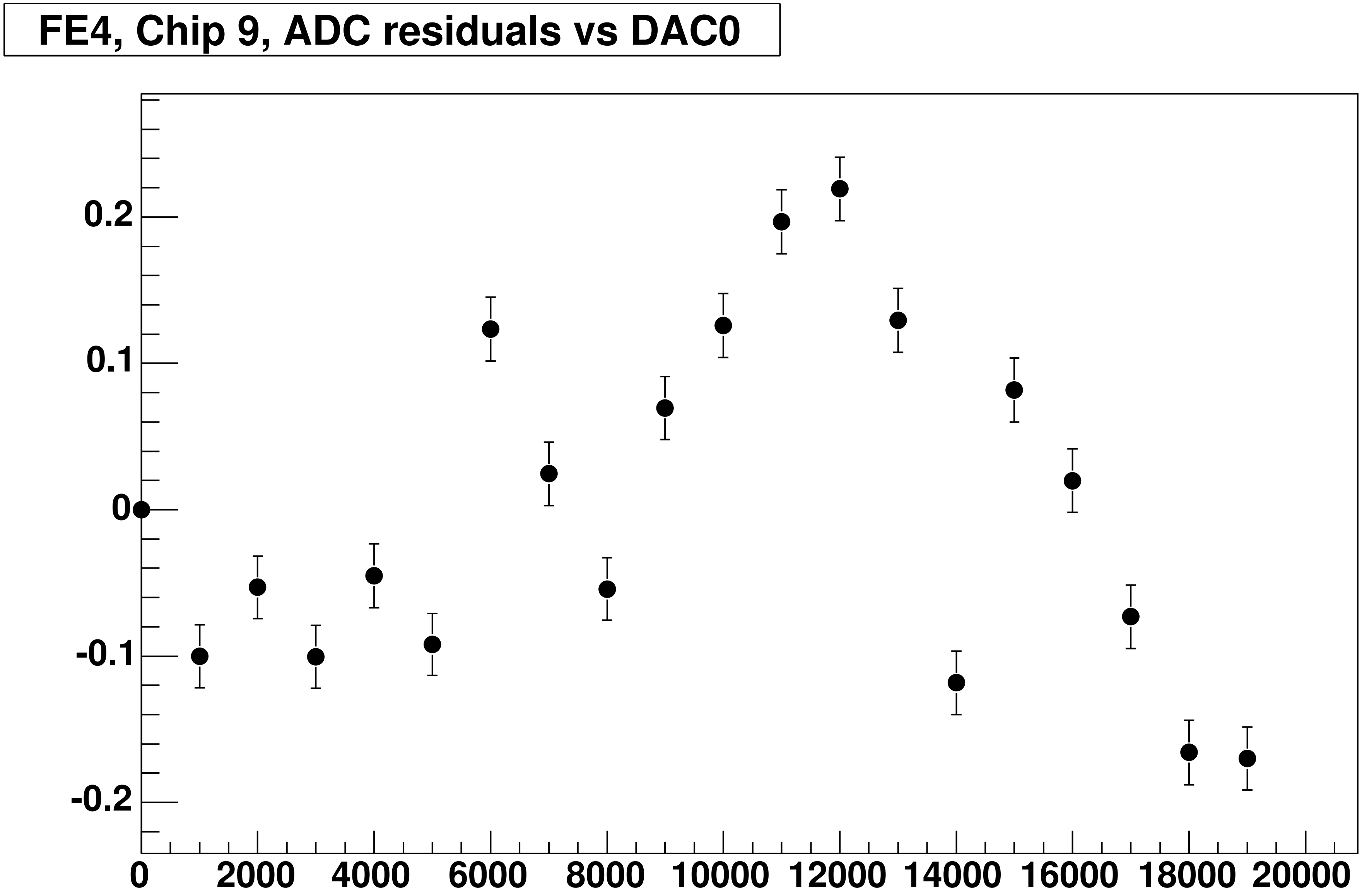
FE4, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 1.059e+10 / 17
p0 -52.65 ± 0.02073
p1 0.5553 ± 1.905e-06
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
2000
4000
6000
8000
10000
12000
14000

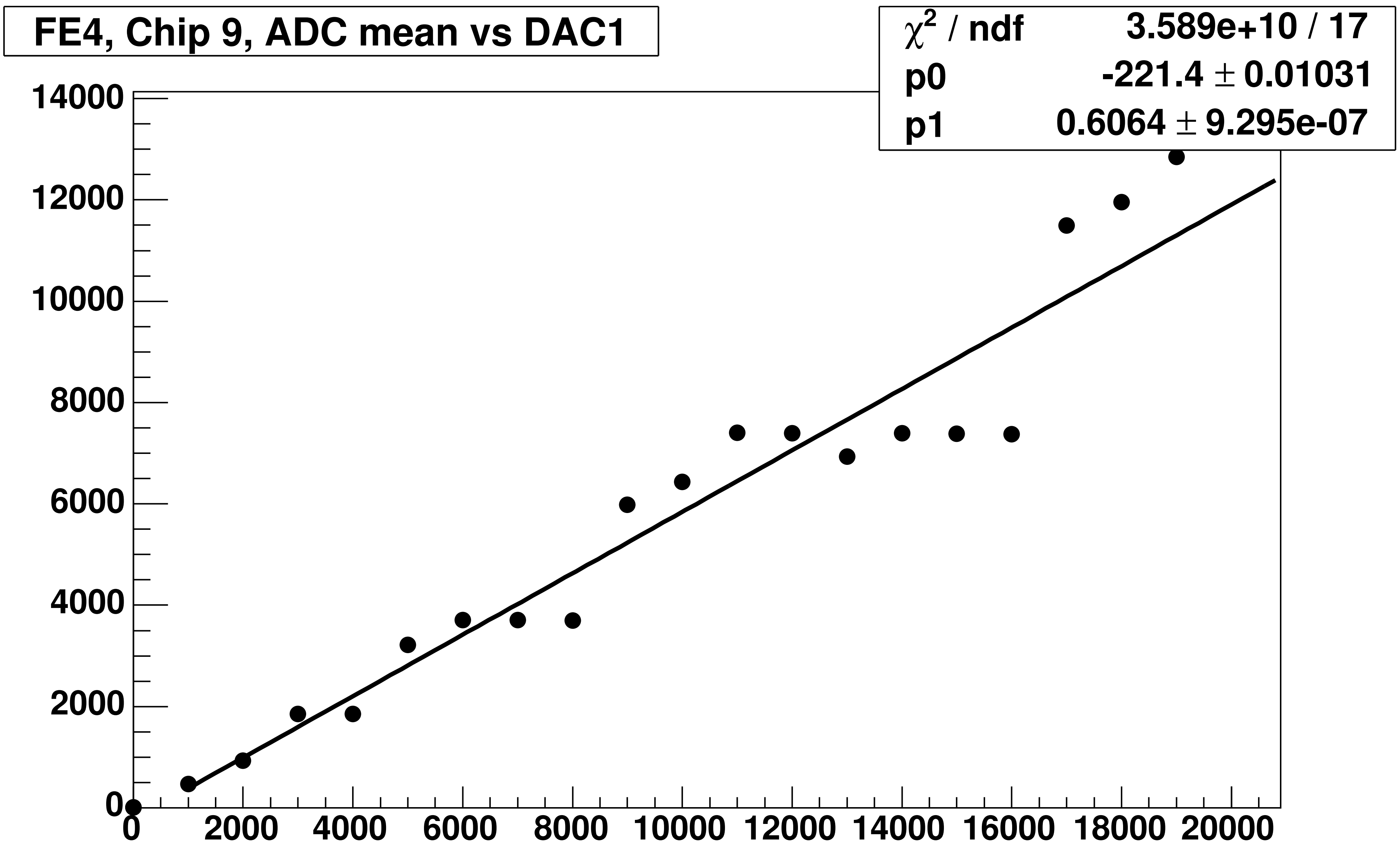

FE4, Chip 8, ADC noise vs DAC1
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

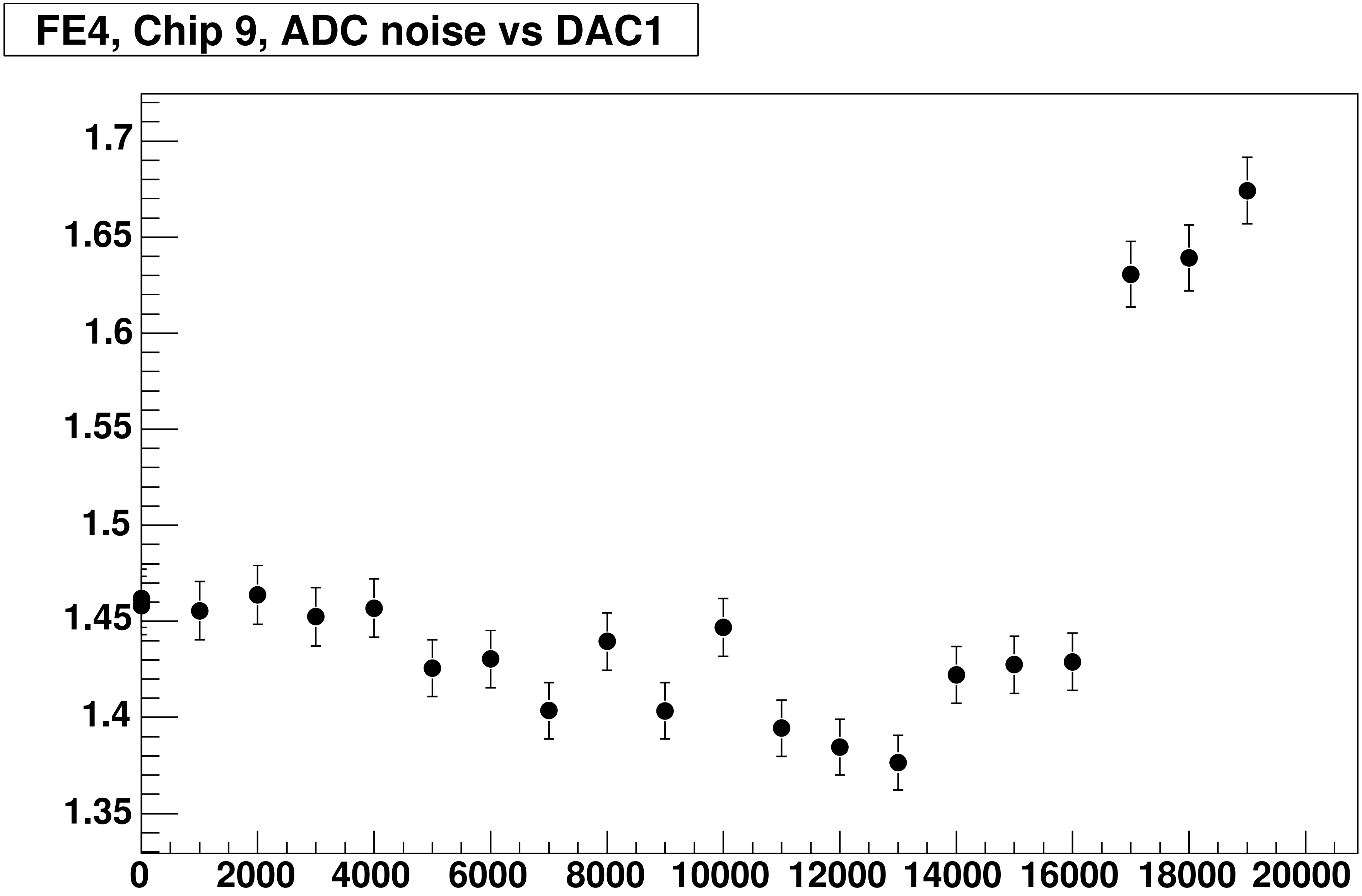

FE4, Chip 8, ADC residuals vs DAC1
2500
2000
1500
1000
500
0
-500
-1000
-1500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

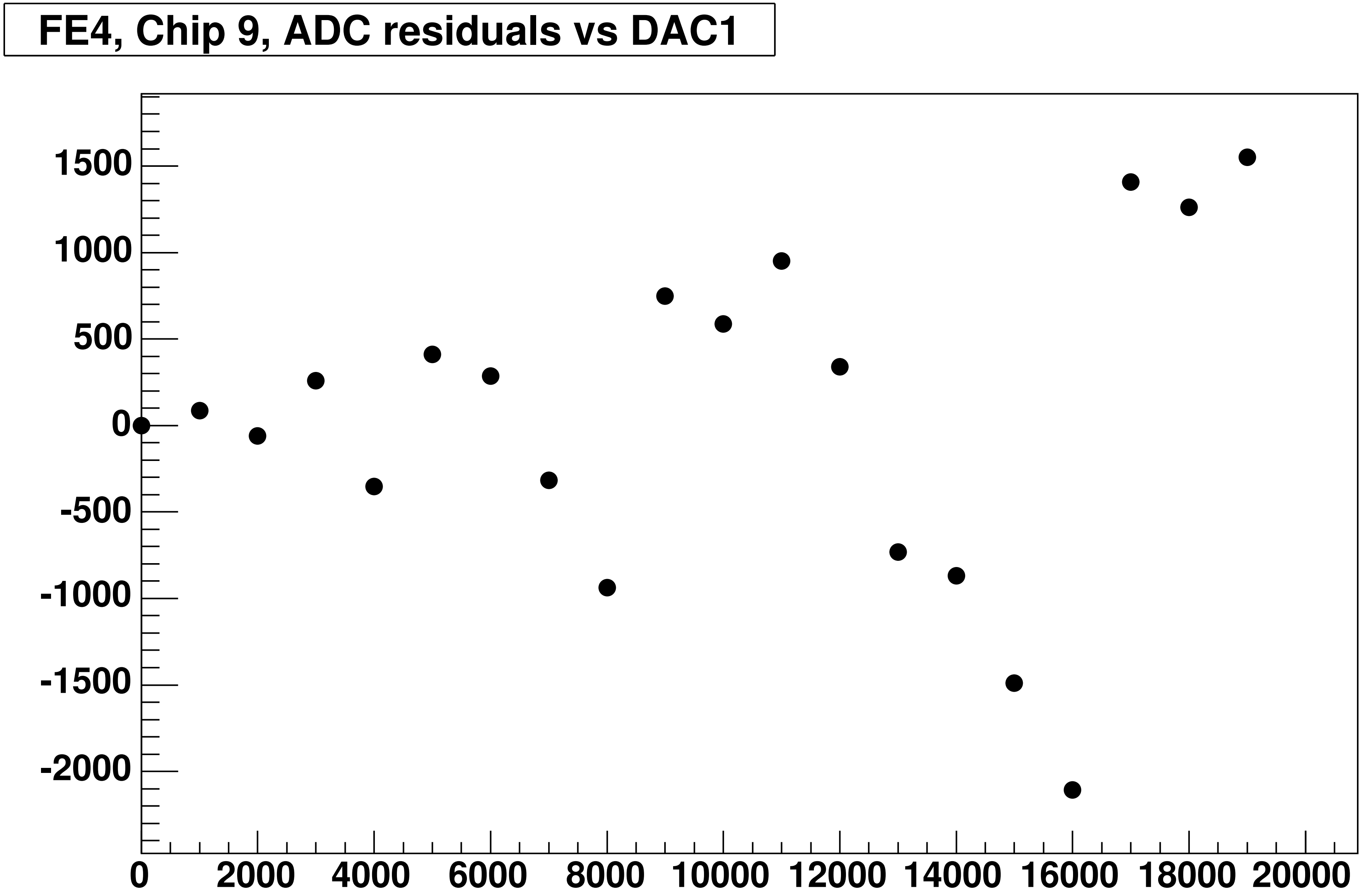

FE4, Chip 9, ADC mean vs DAC0
χ2 / ndf 550 / 17
p0 11.29 ± 0.01029
p1 4.628e-06 ± 9.052e-07
11.6
11.5
11.4
11.3
11.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

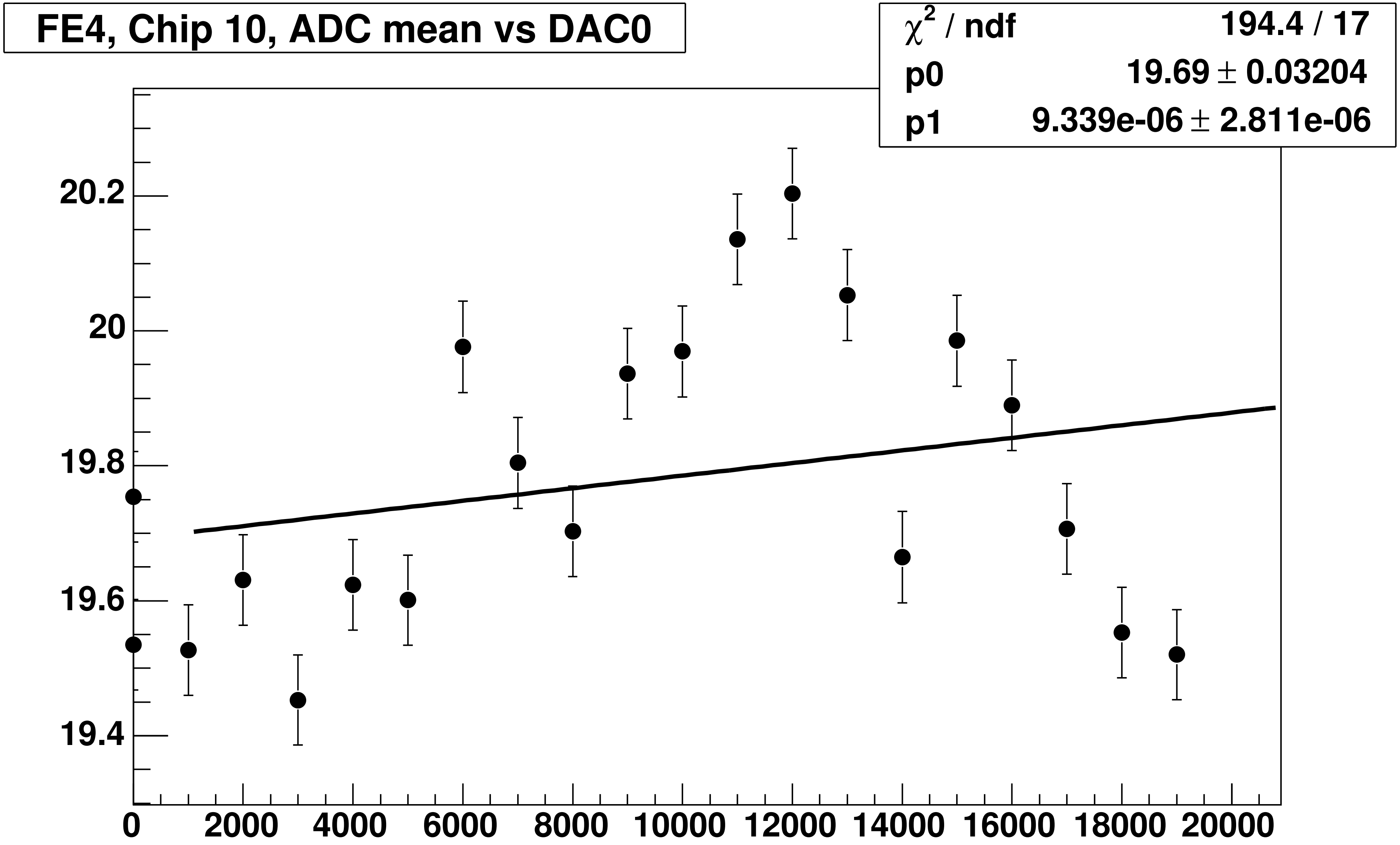

FE4, Chip 9, ADC noise vs DAC0
1.42
1.44
1.46
1.48
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

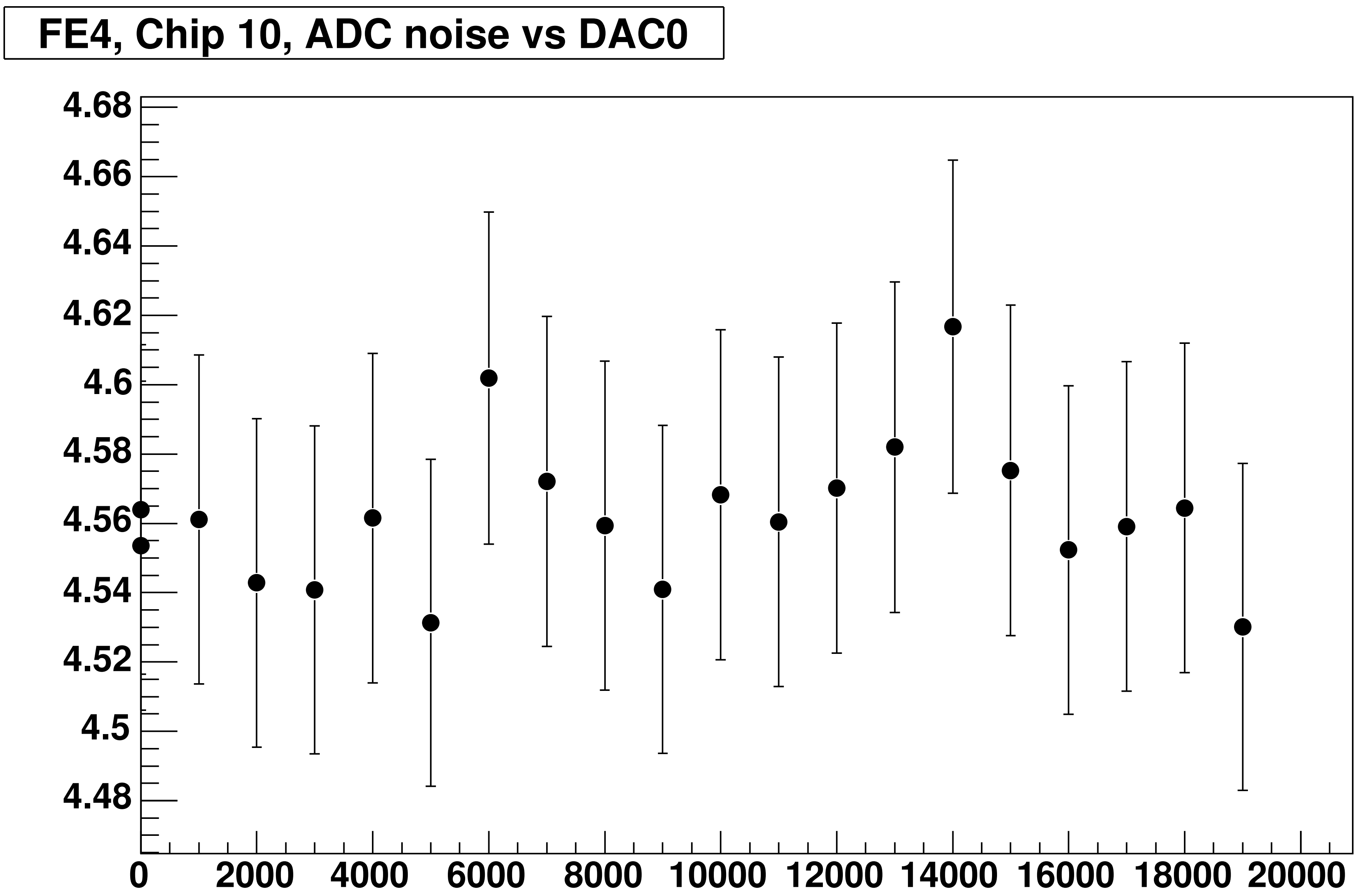

FE4, Chip 9, ADC residuals vs DAC0
0.2
0.1
0
-0.1
-0.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

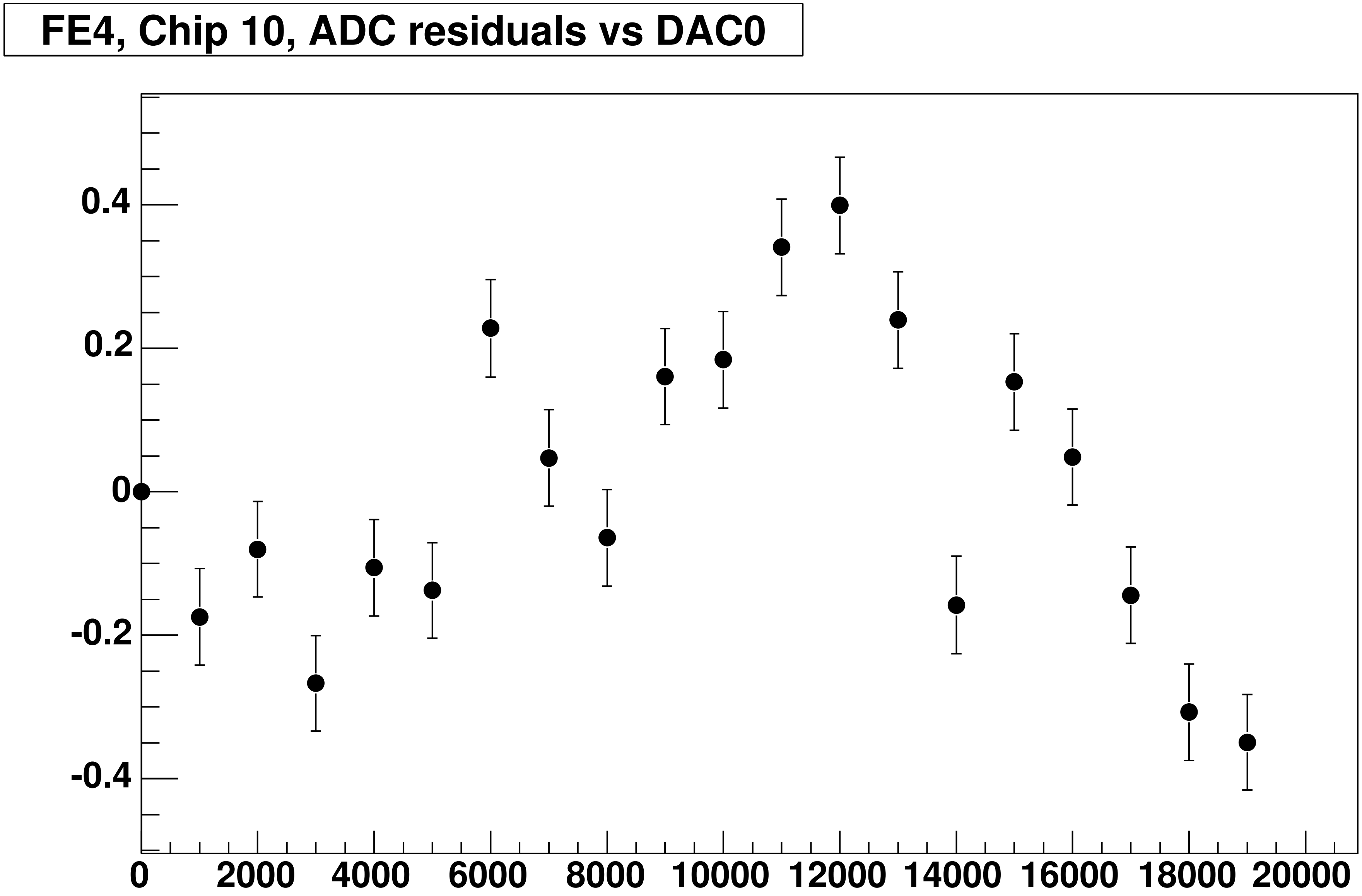

FE4, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 3.589e+10 / 17
p0 -221.4 ± 0.01031
p1 0.6064 ± 9.295e-07
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

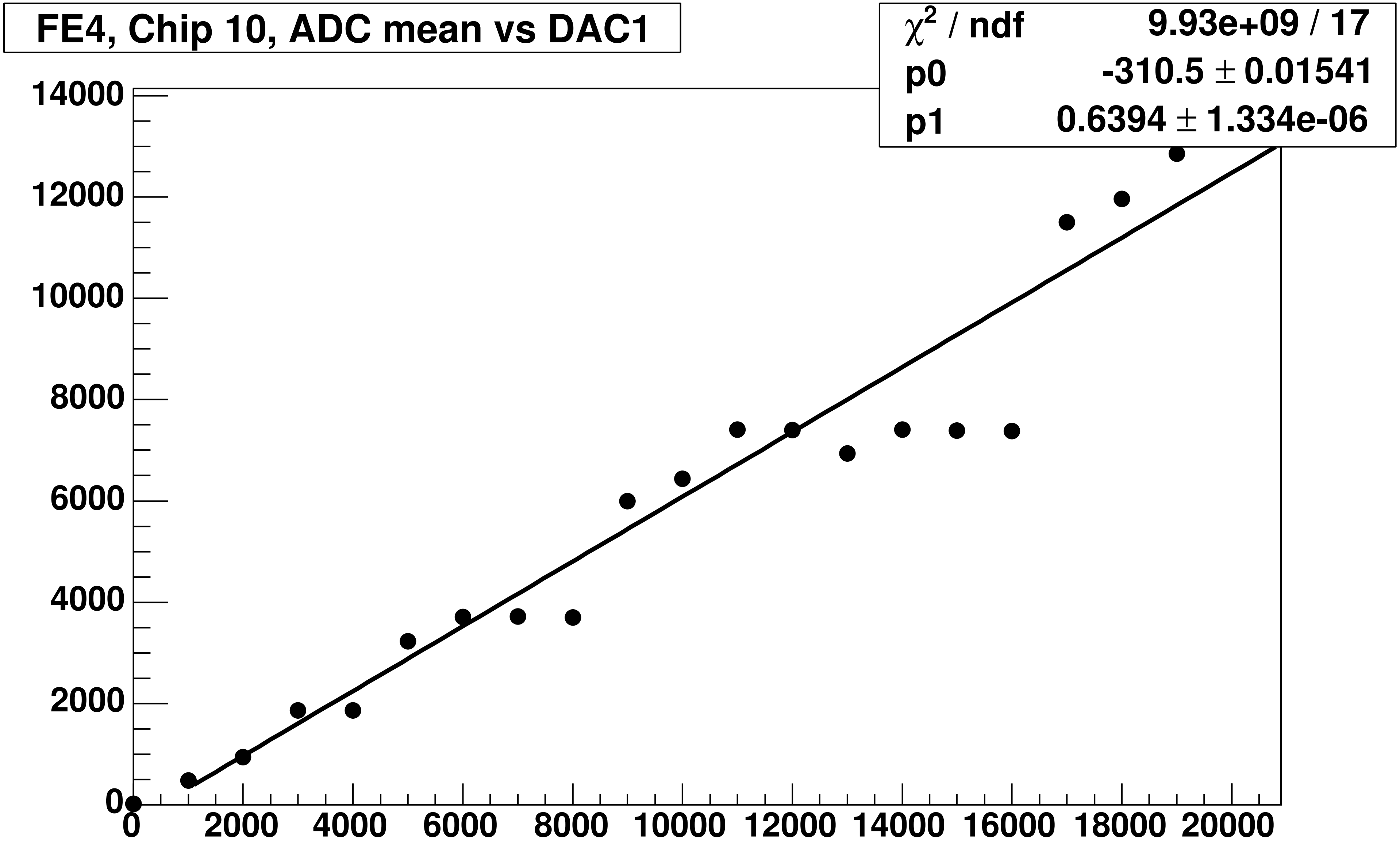

FE4, Chip 9, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

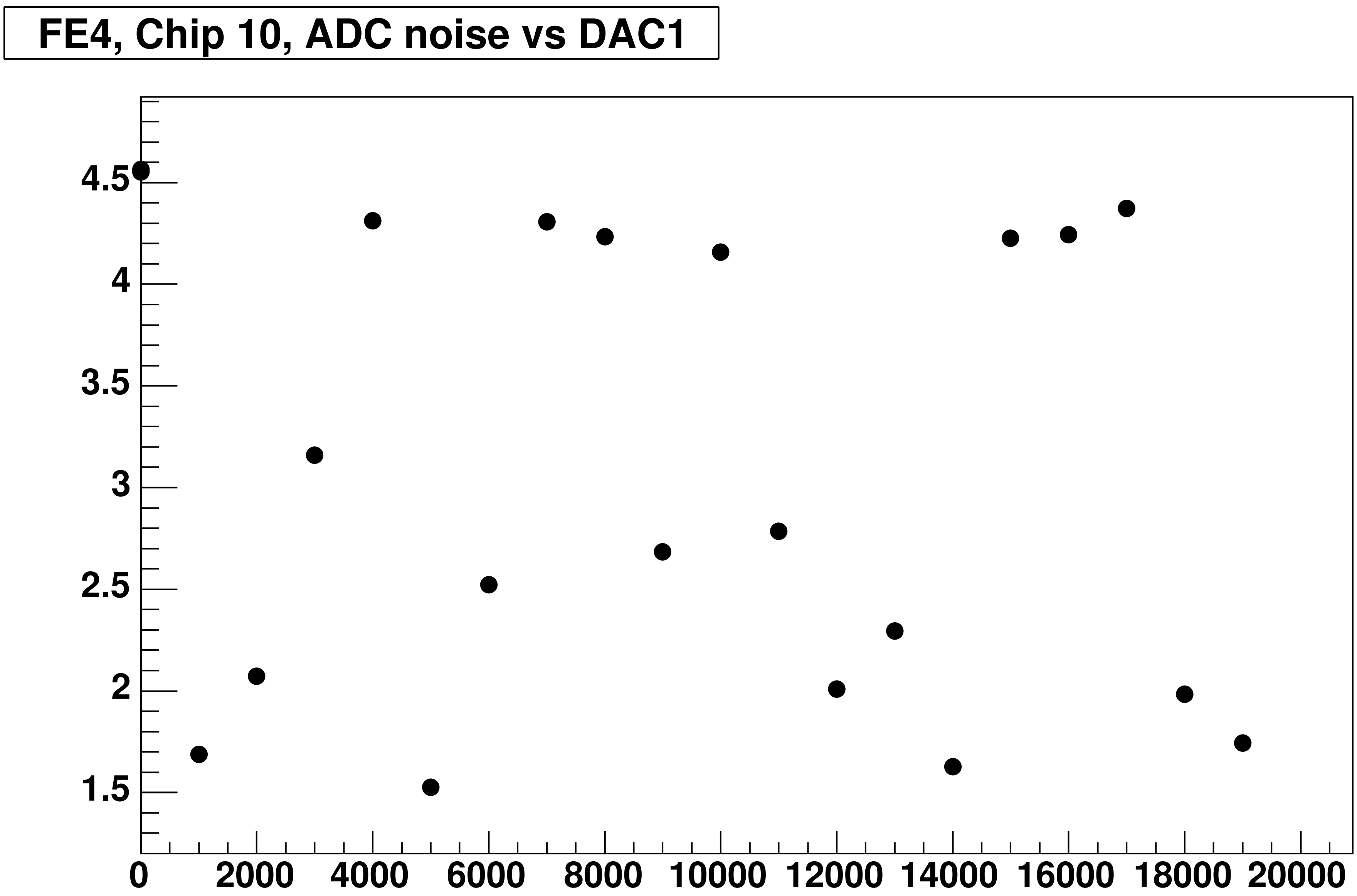

FE4, Chip 9, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

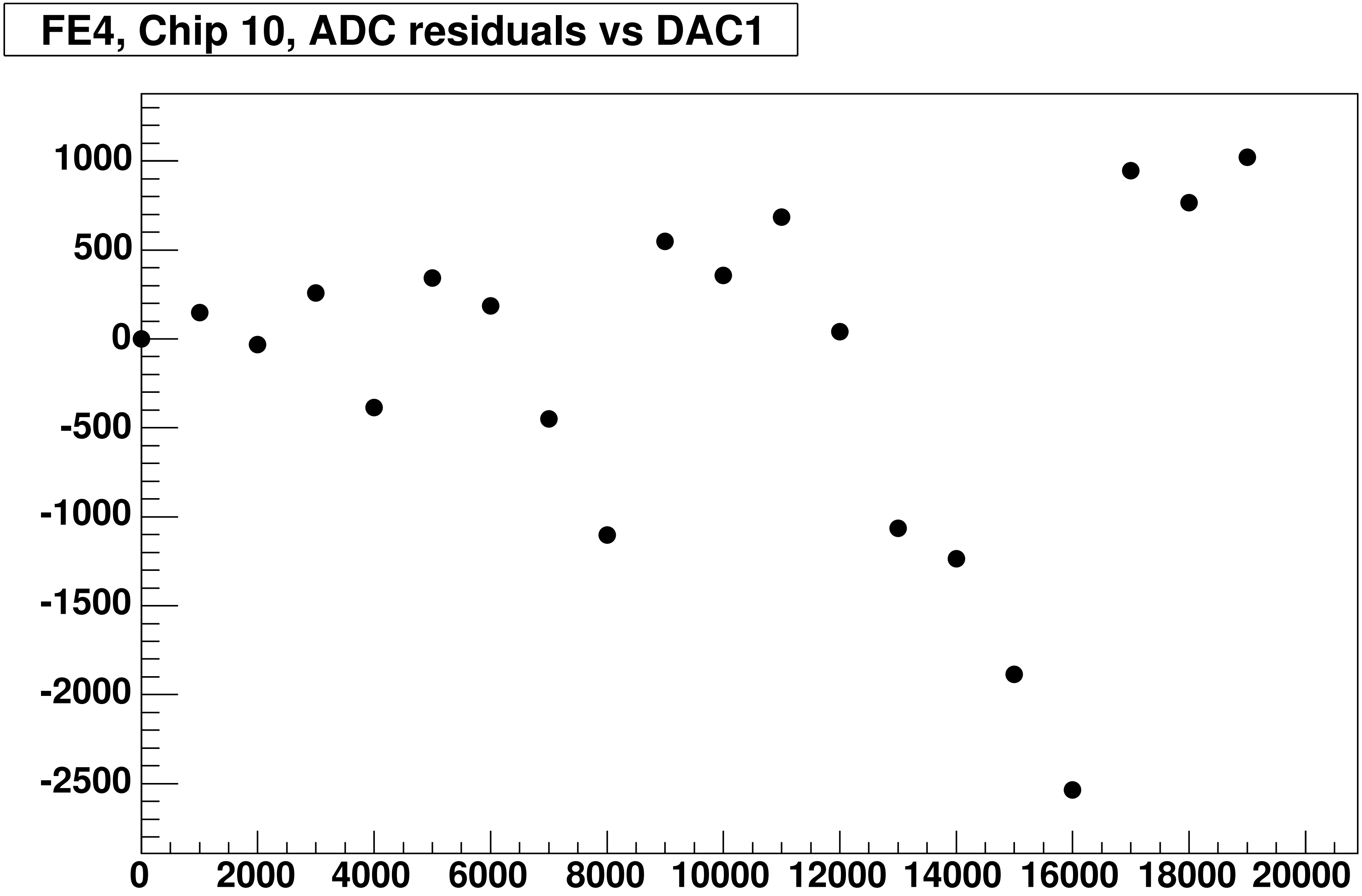

FE4, Chip 10, ADC mean vs DAC0
$\chi^2$ / ndf 194.4 / 17
p0 19.69 ± 0.03204
p1 9.339e-06 ± 2.811e-06
20.2
20
19.8
19.6
19.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE4, Chip 10, ADC noise vs DAC0
4.68
4.66
4.64
4.62
4.6
4.58
4.56
4.54
4.52
4.5
4.48
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

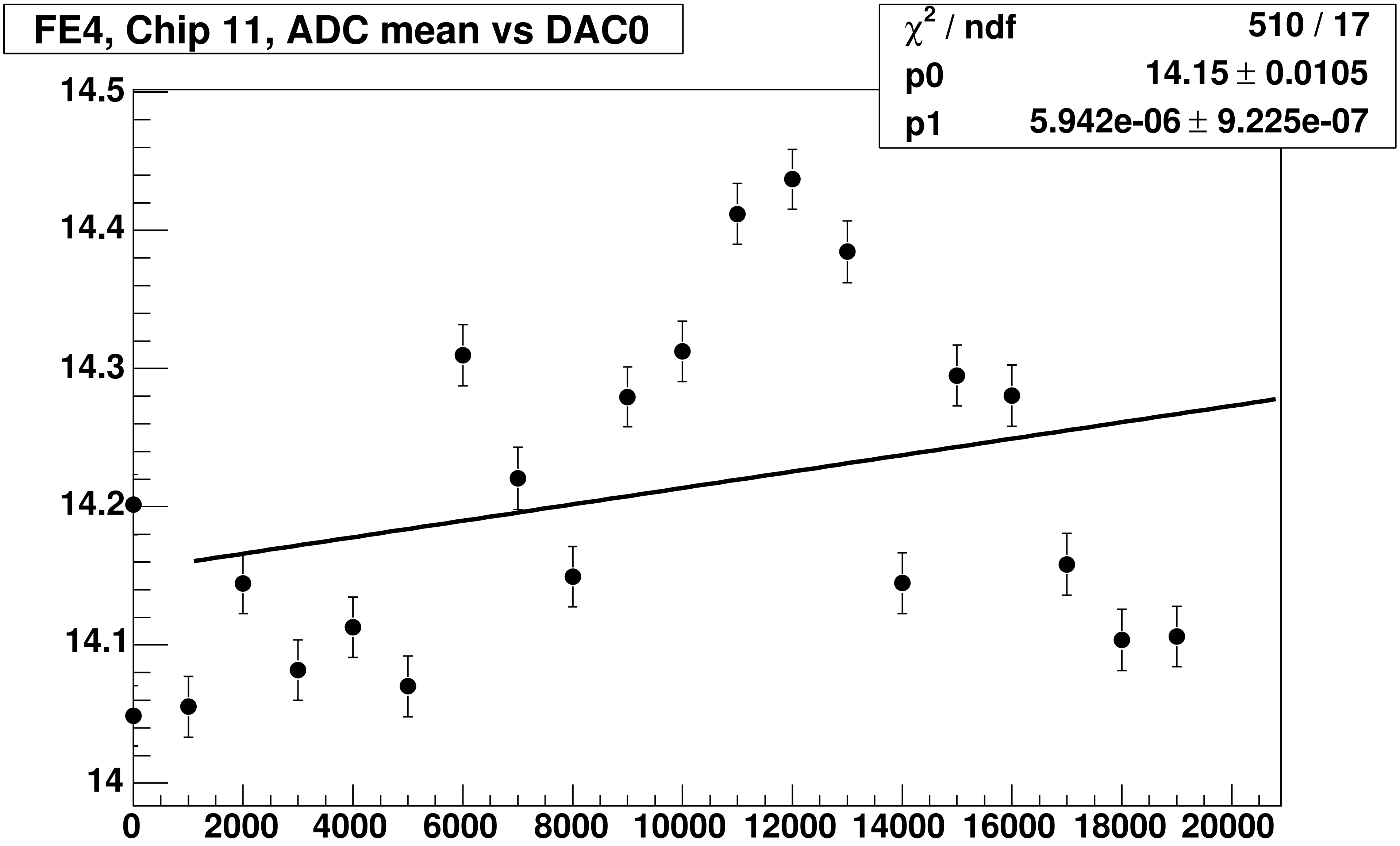

FE4, Chip 10, ADC residuals vs DAC0
0.4
0.2
0
-0.2
-0.4
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE4, Chip 10, ADC mean vs DAC1
χ2 / ndf 9.93e+09 / 17
p0 -310.5 ± 0.01541
p1 0.6394 ± 1.334e-06
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

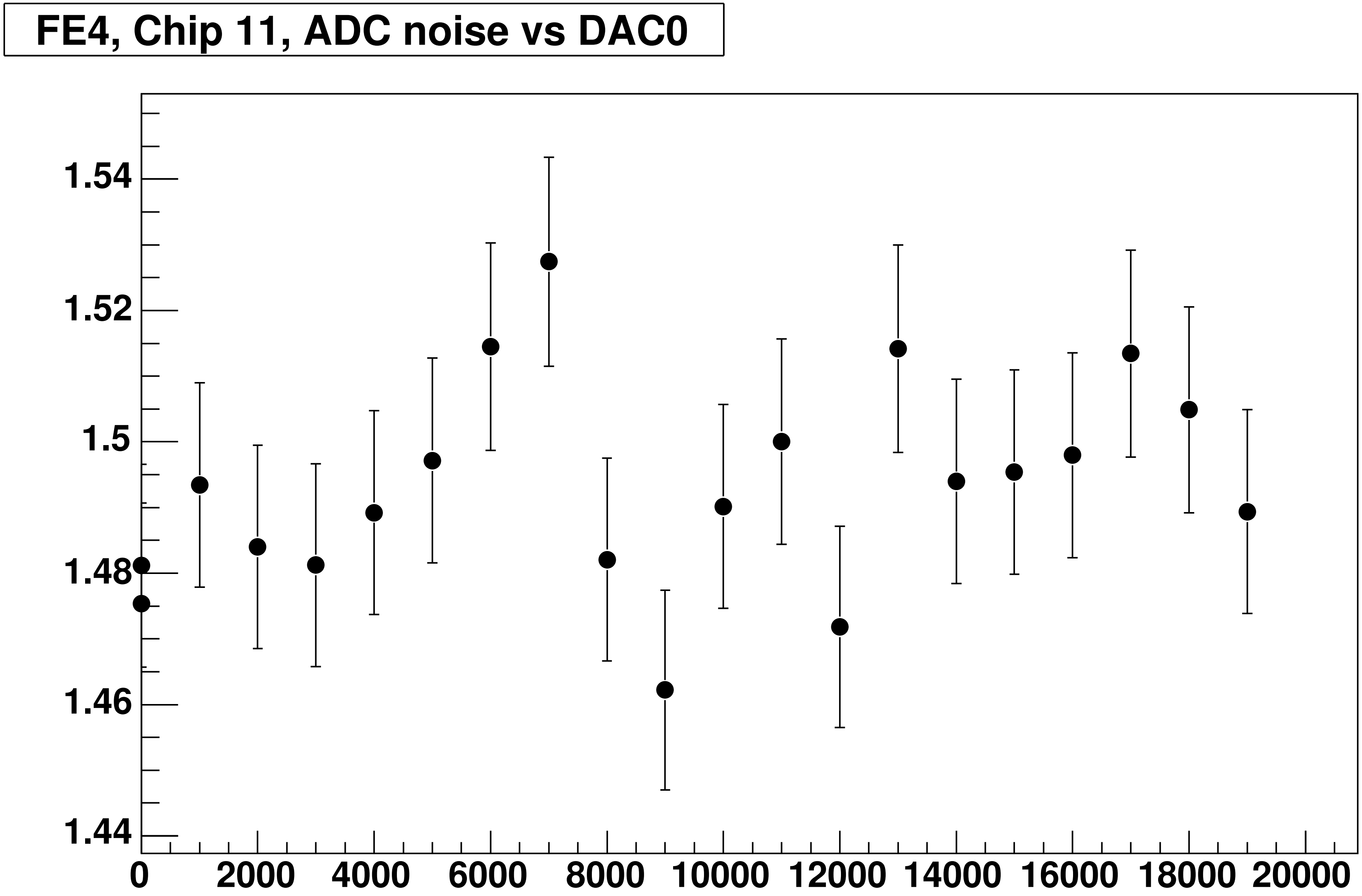

FE4, Chip 10, ADC noise vs DAC1
4.5
4
3.5
3
2.5
2
1.5
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

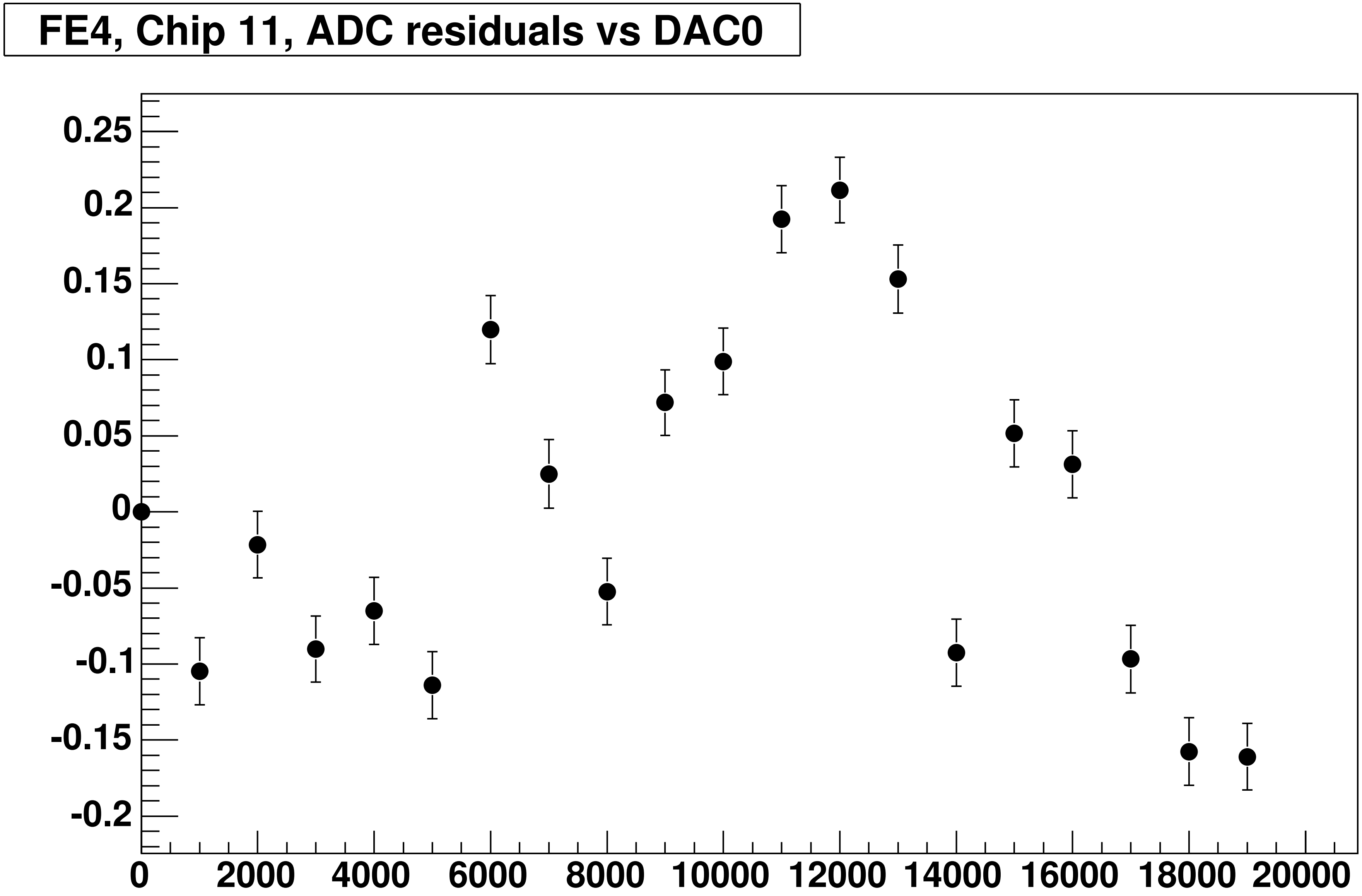


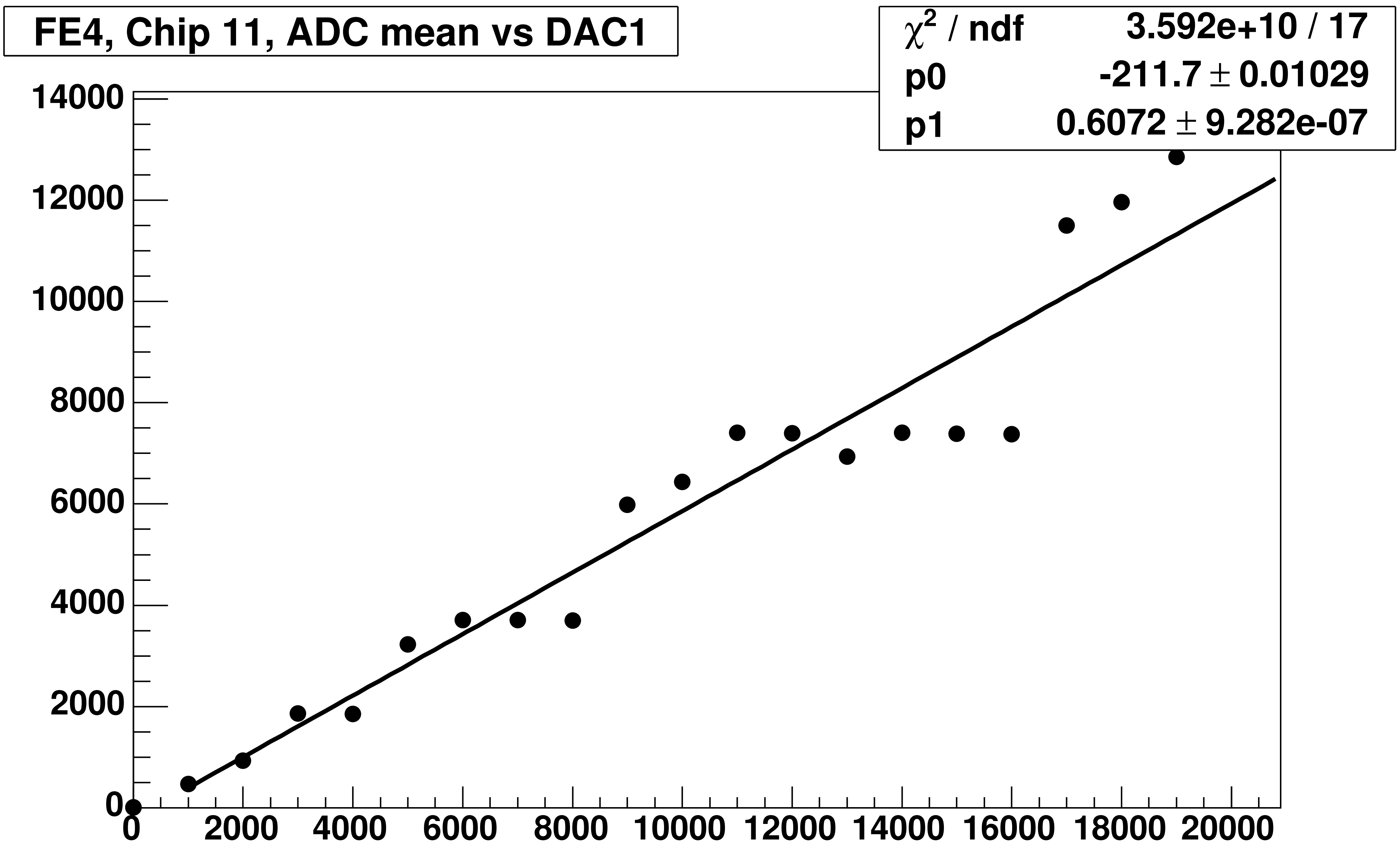
FE4, Chip 10, ADC residuals vs DAC1
1000
500
0
-500
-1000
-1500
-2000
-2500
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



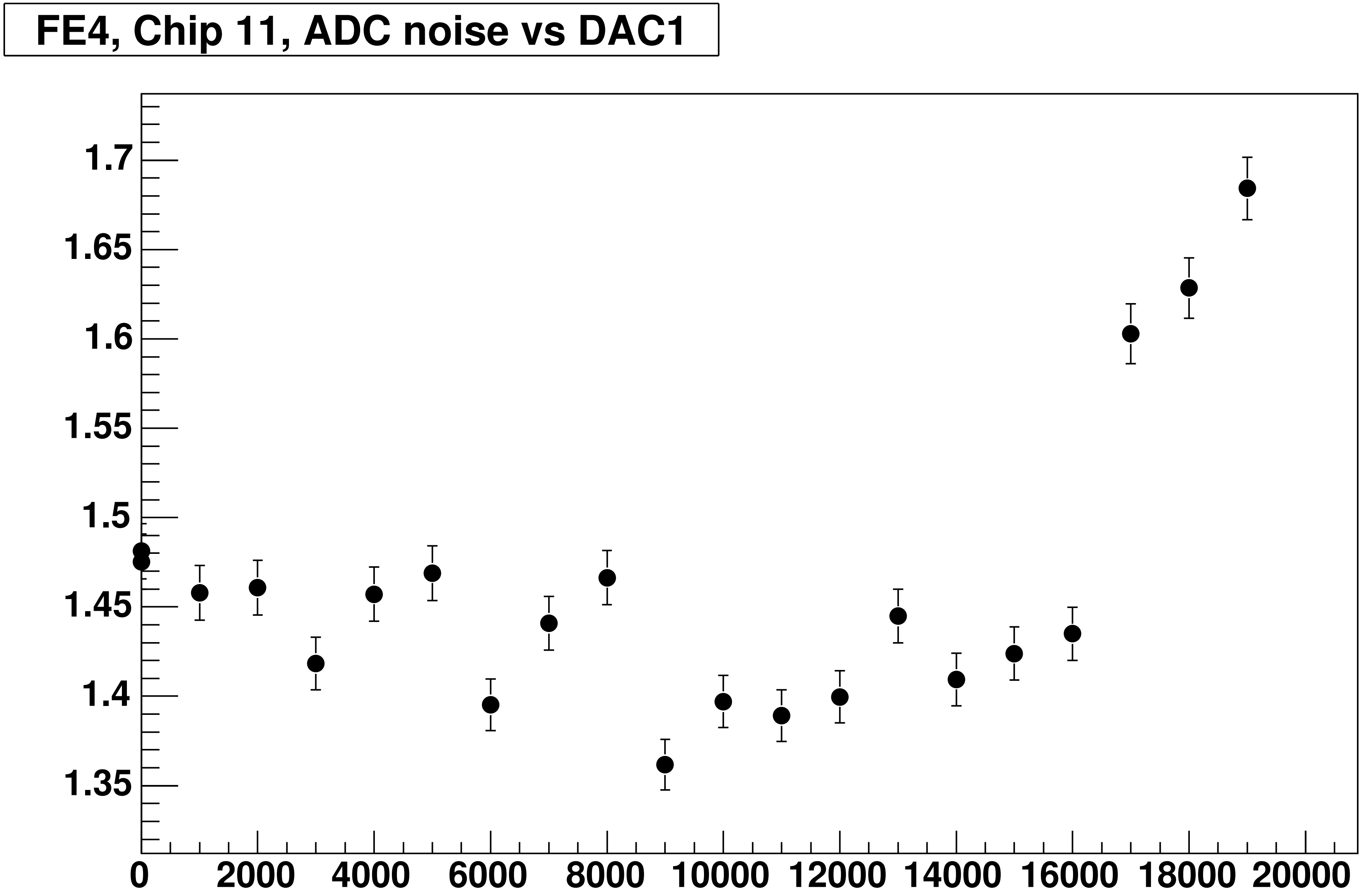
FE4, Chip 11, ADC mean vs DAC0
$\chi^2$ / ndf 510 / 17
p0 14.15 ± 0.0105
p1 5.942e-06 ± 9.225e-07
14.5
14.4
14.3
14.2
14.1
14
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

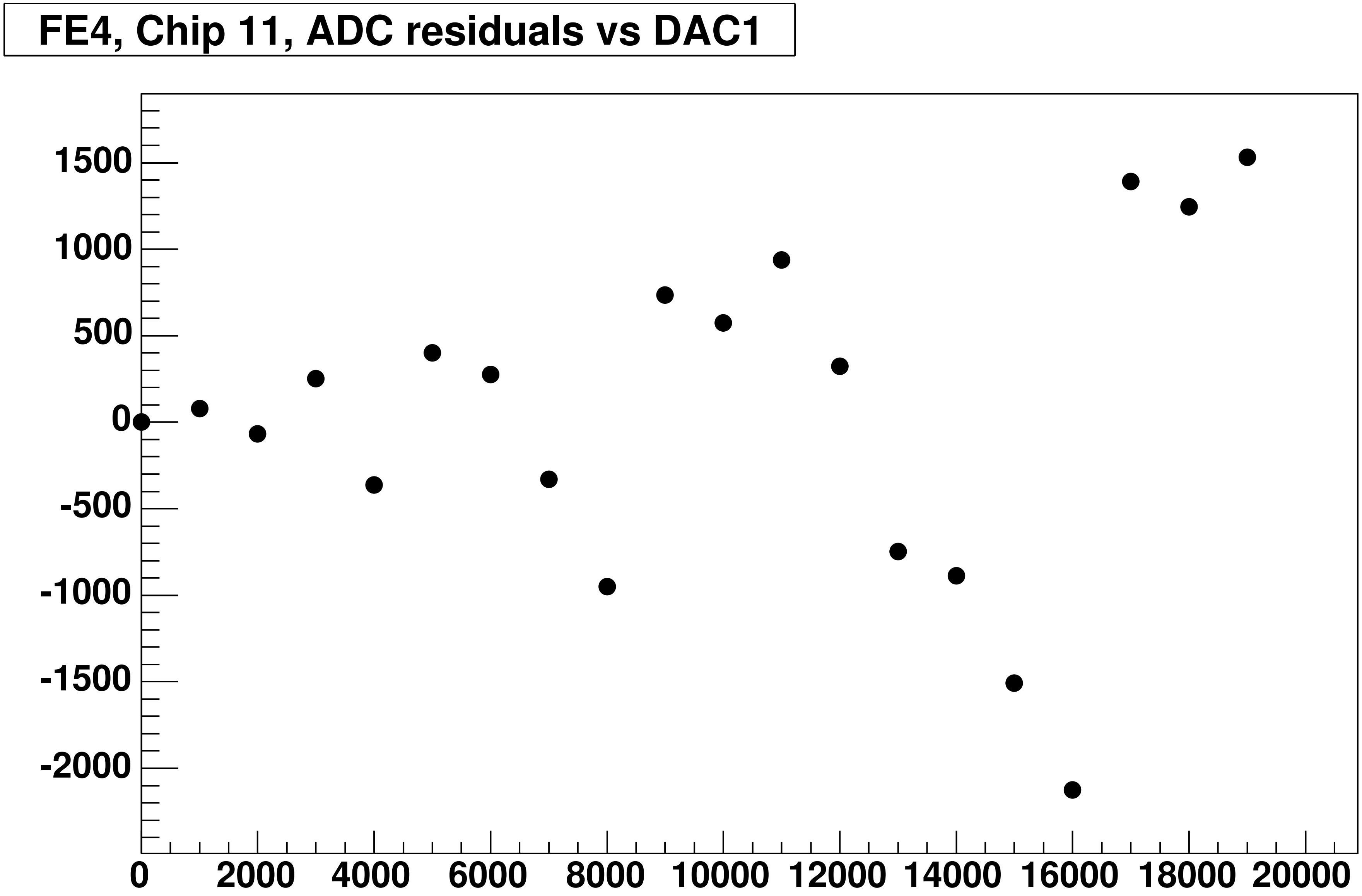

FE4, Chip 11, ADC noise vs DAC0
1.54
1.52
1.5
1.48
1.46
1.44
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

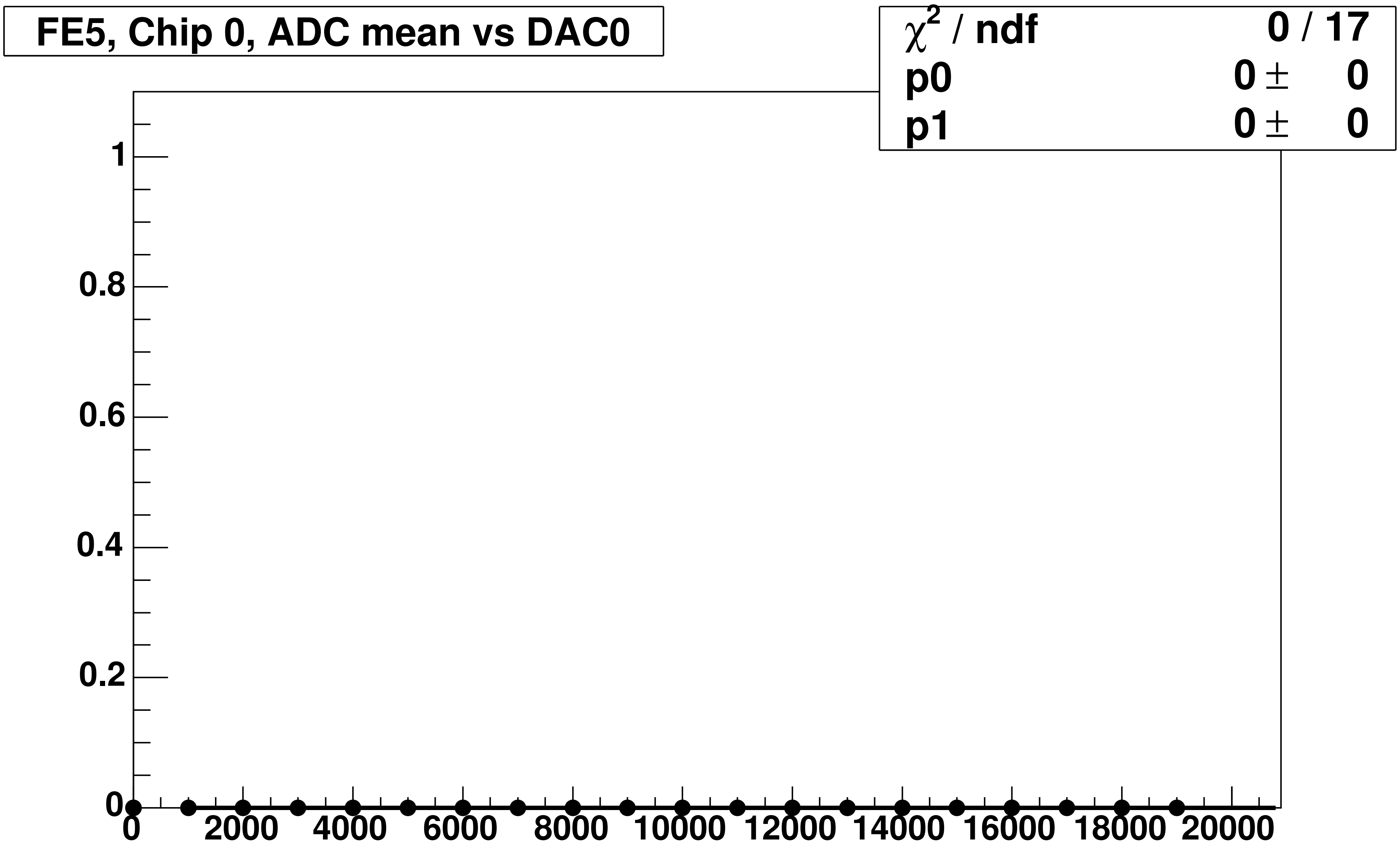

FE4, Chip 11, ADC residuals vs DAC0
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

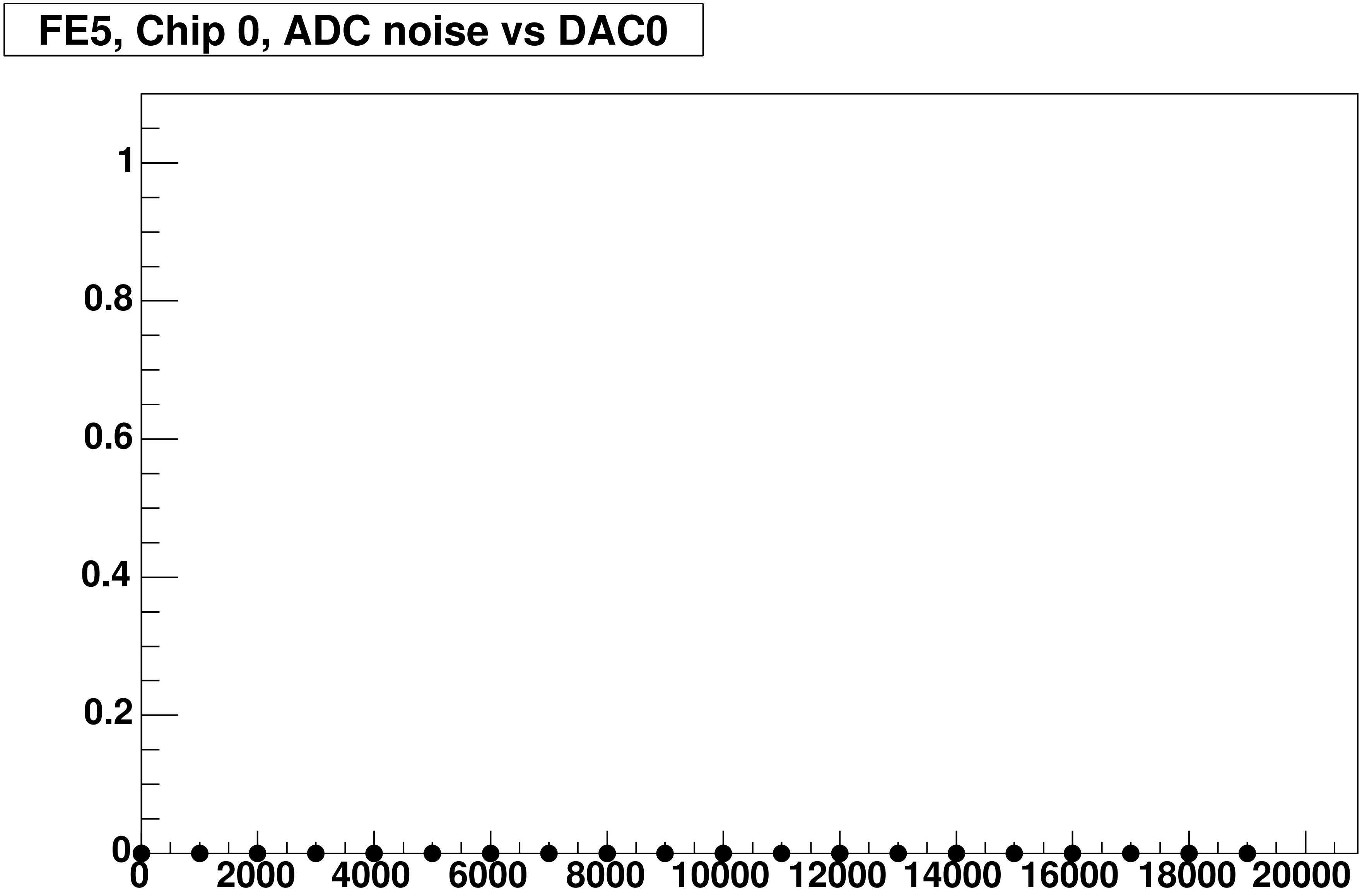


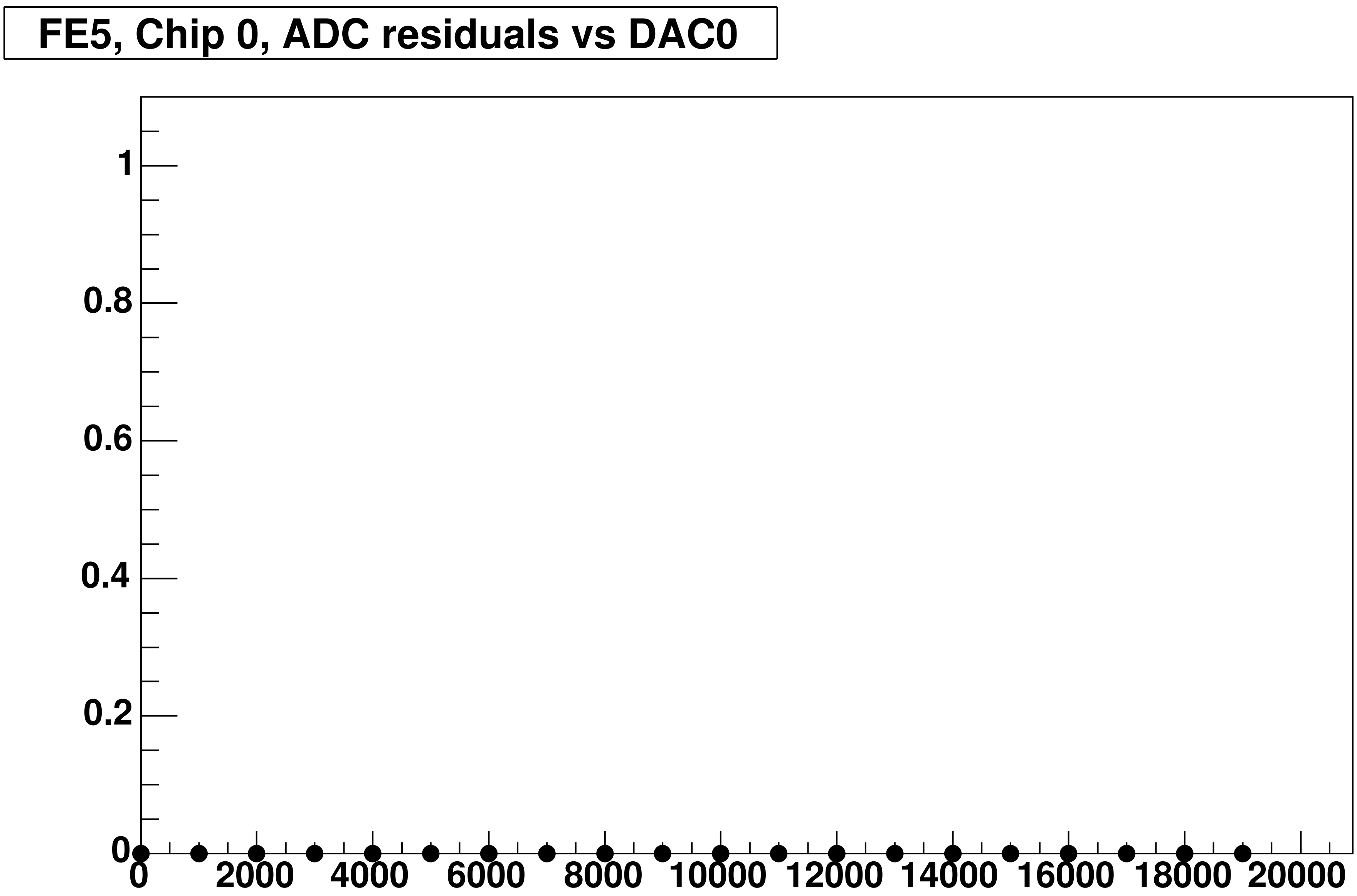
FE4, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 3.592e+10 / 17
p0 -211.7 ± 0.01029
p1 0.6072 ± 9.282e-07
14000
12000
10000
8000
6000
4000
2000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

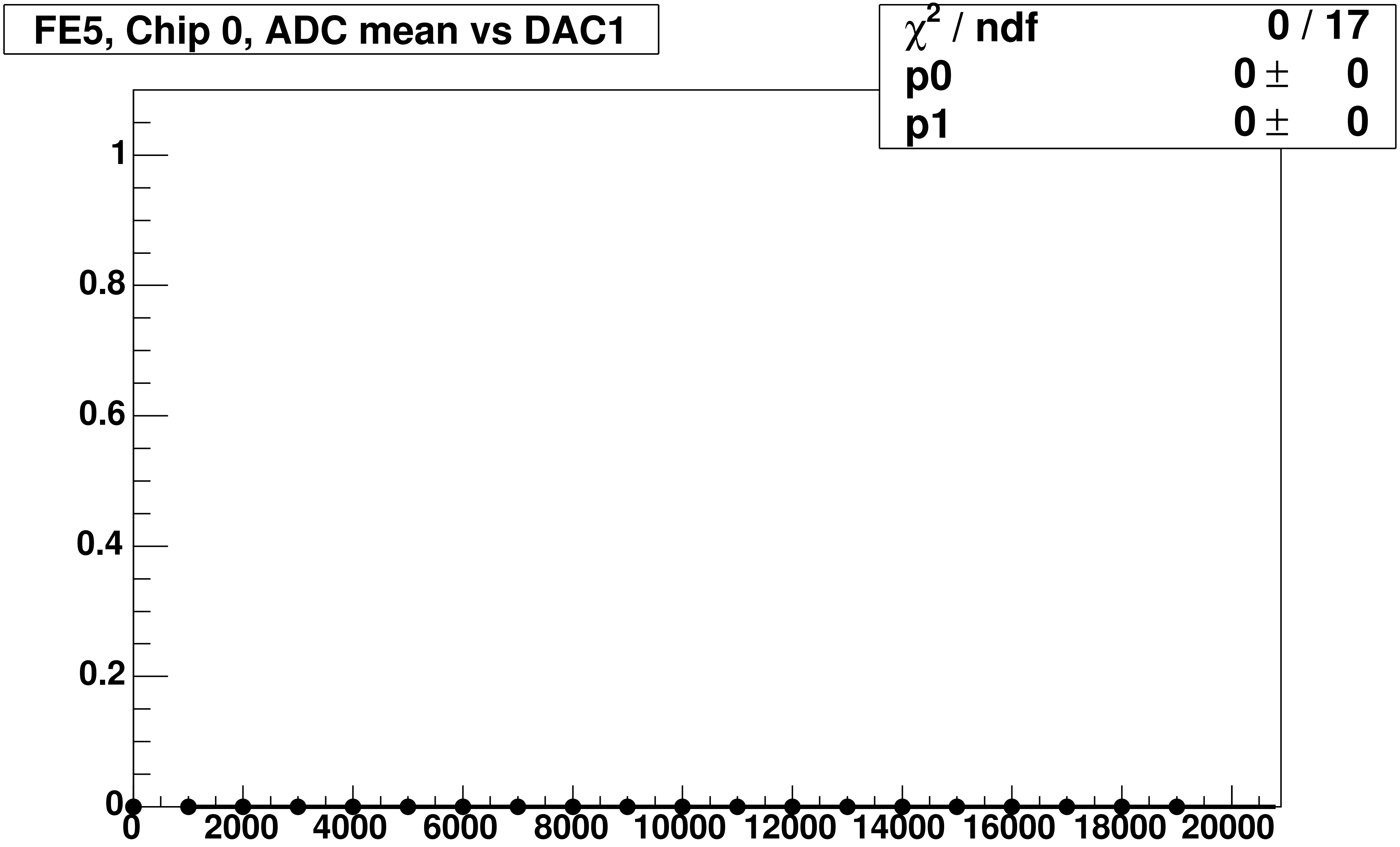

FE4, Chip 11, ADC noise vs DAC1
1.7
1.65
1.6
1.55
1.5
1.45
1.4
1.35
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE4, Chip 11, ADC residuals vs DAC1
1500
1000
500
0
-500
-1000
-1500
-2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

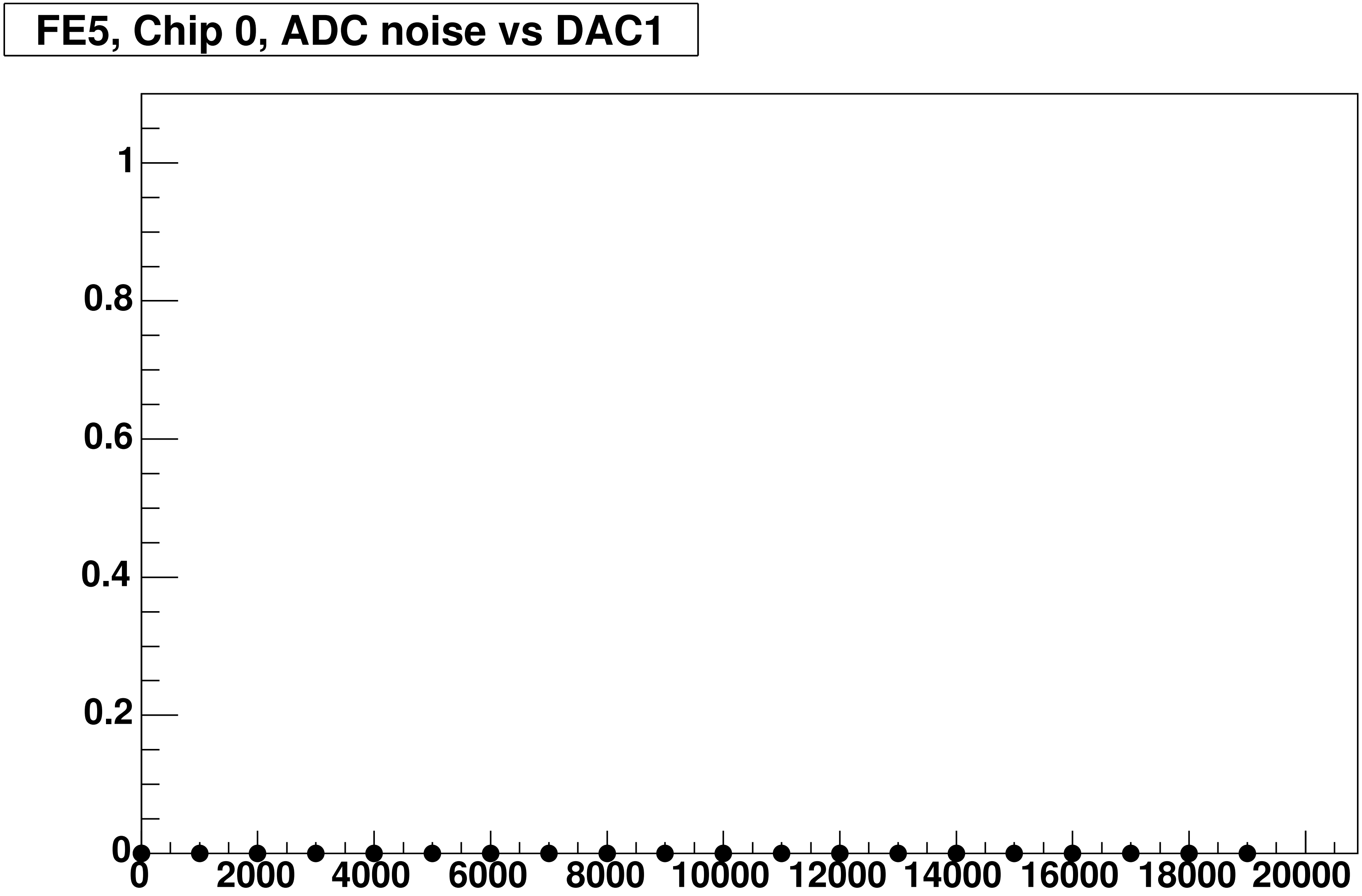

FE5, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

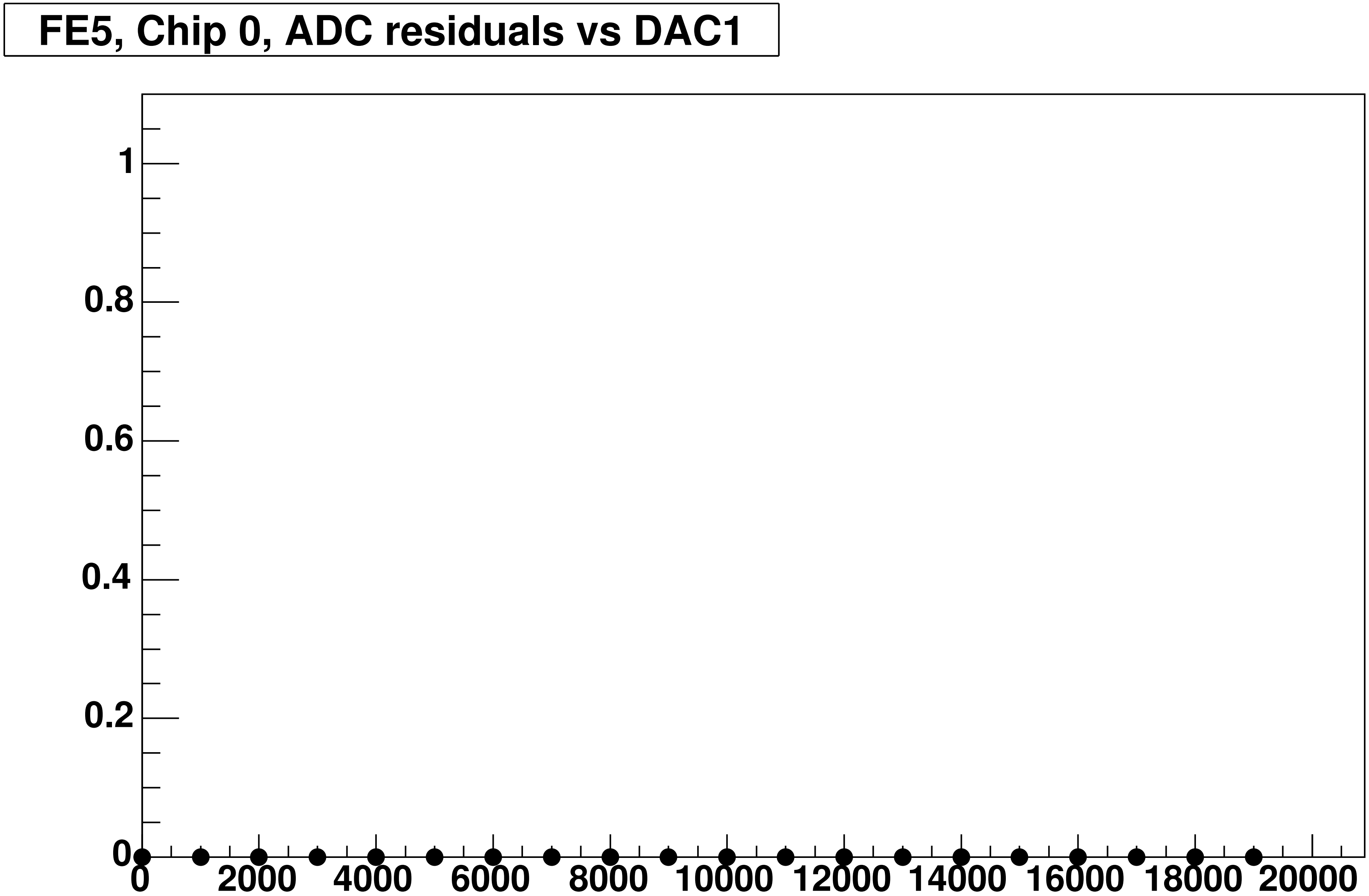

FE5, Chip 0, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

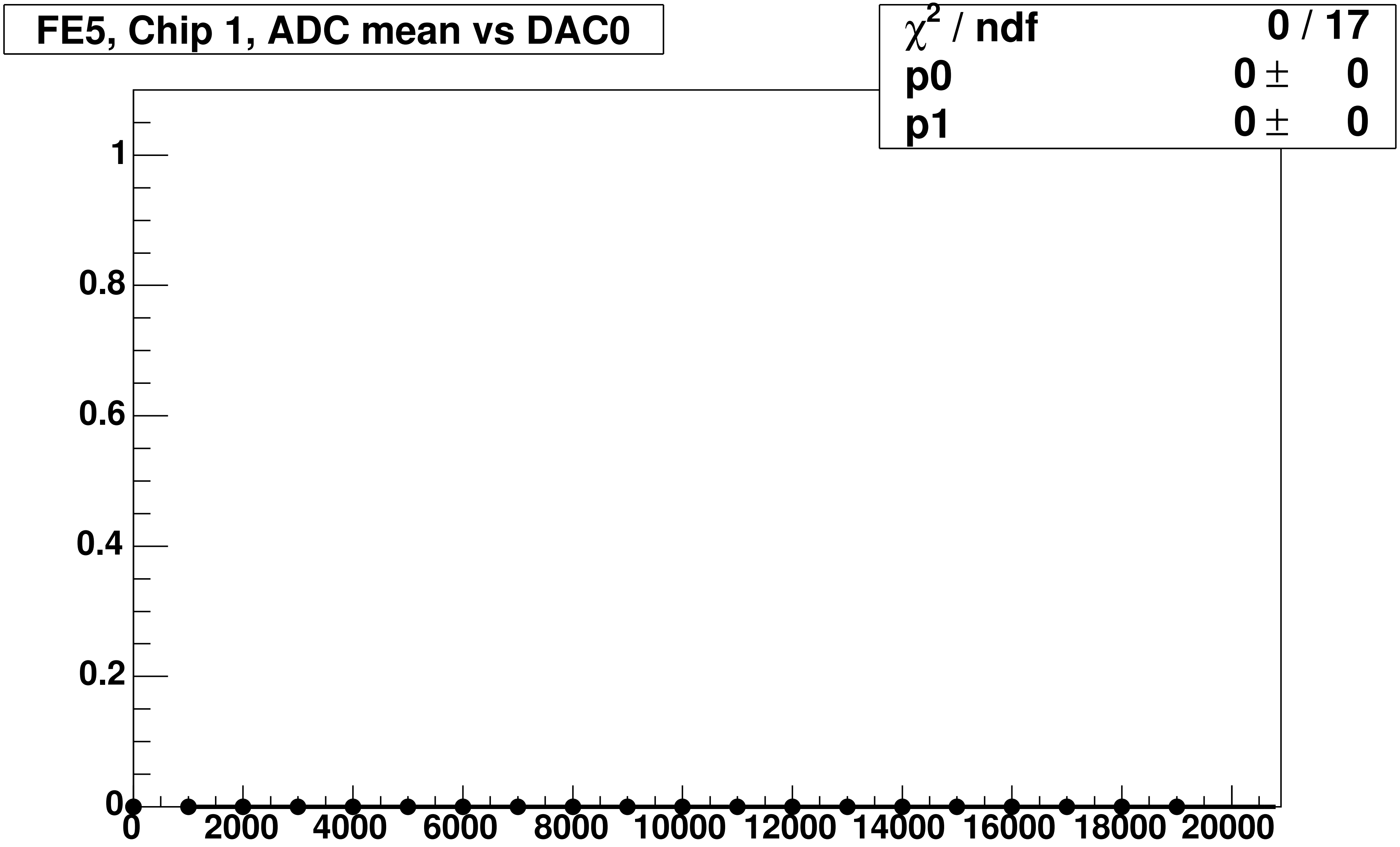

FE5, Chip 0, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



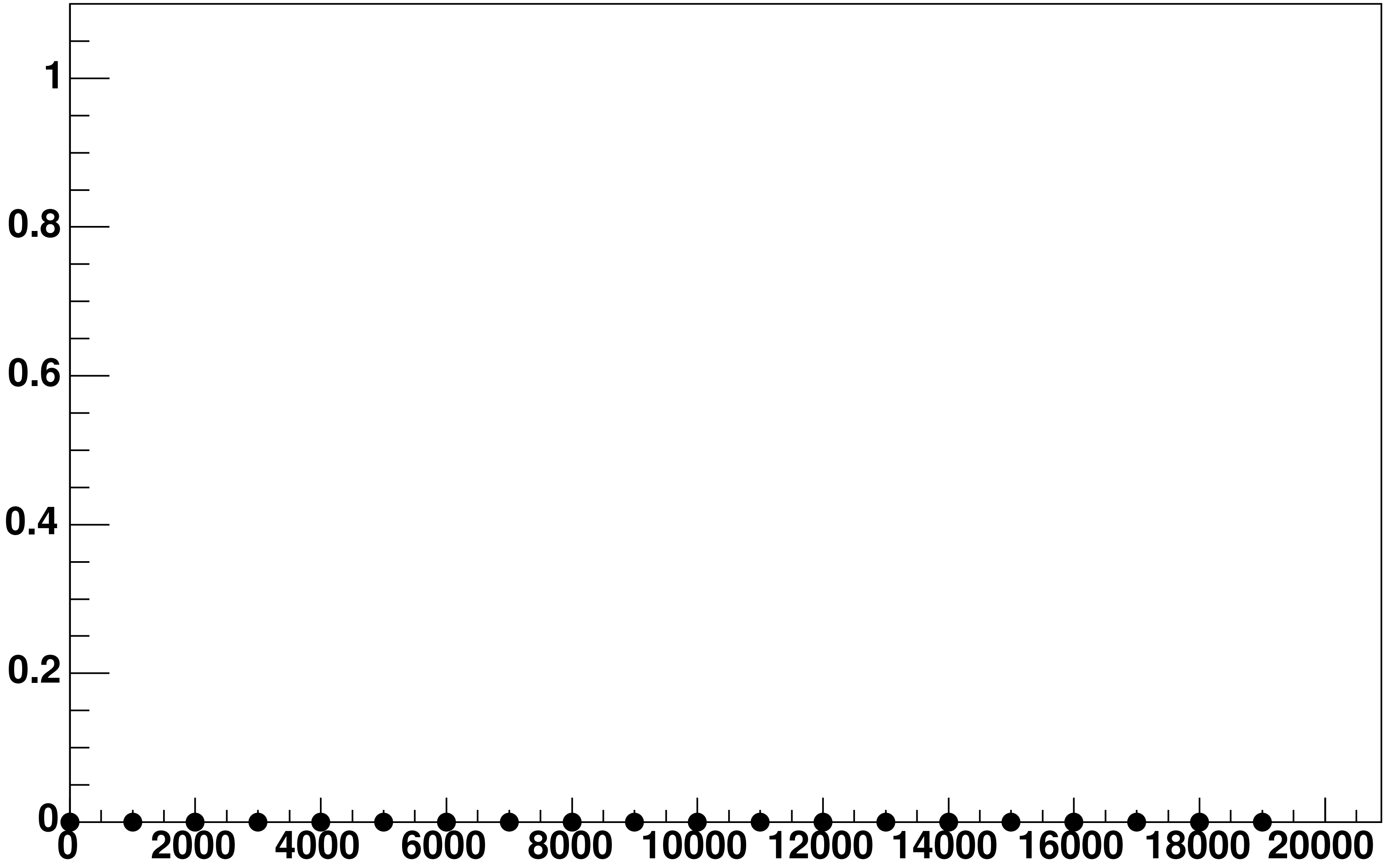
FE5, Chip 0, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0 2000 4000 6000 8000 10000 12000 14000 16000 18000 20000

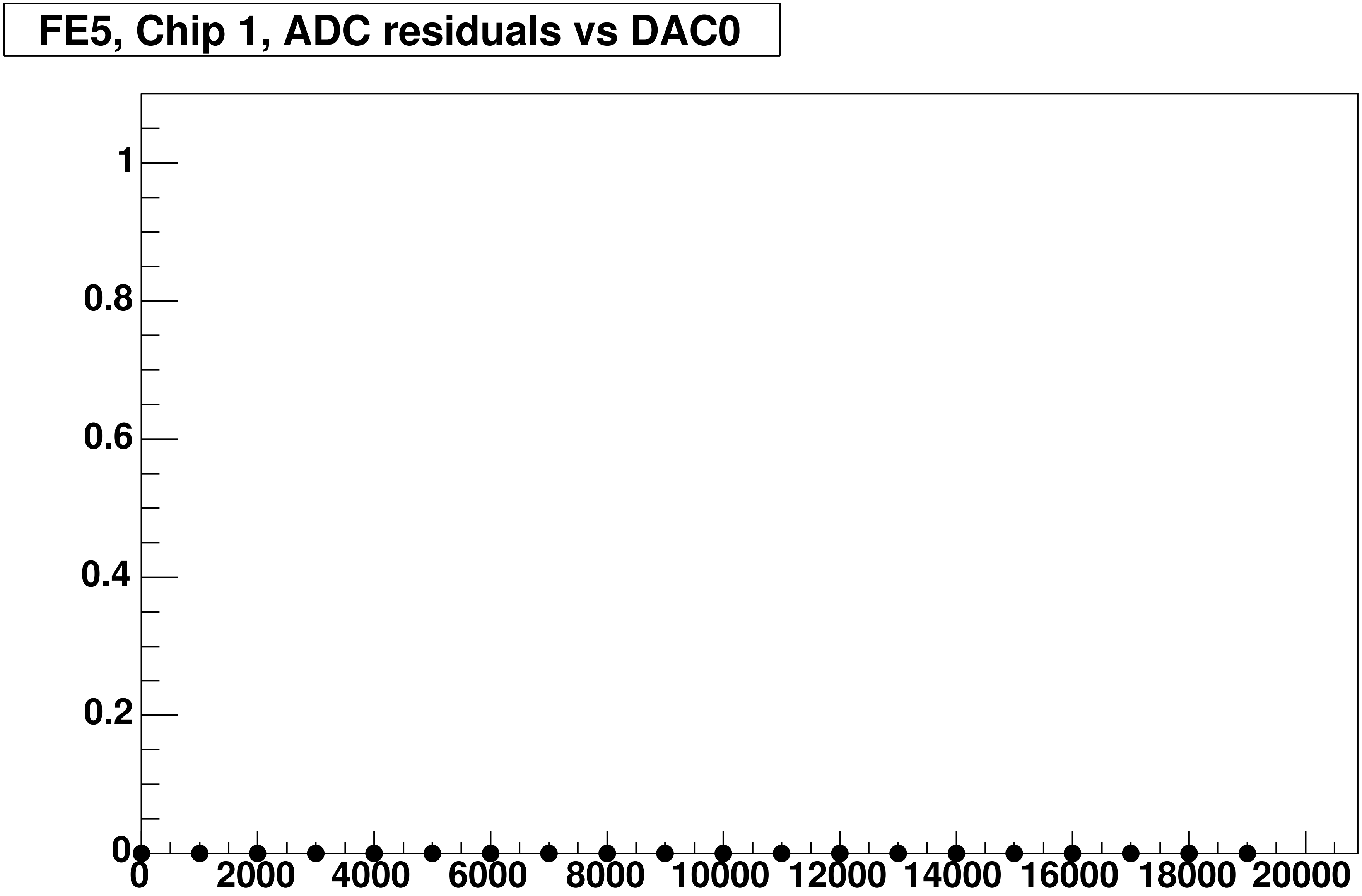

FE5, Chip 0, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

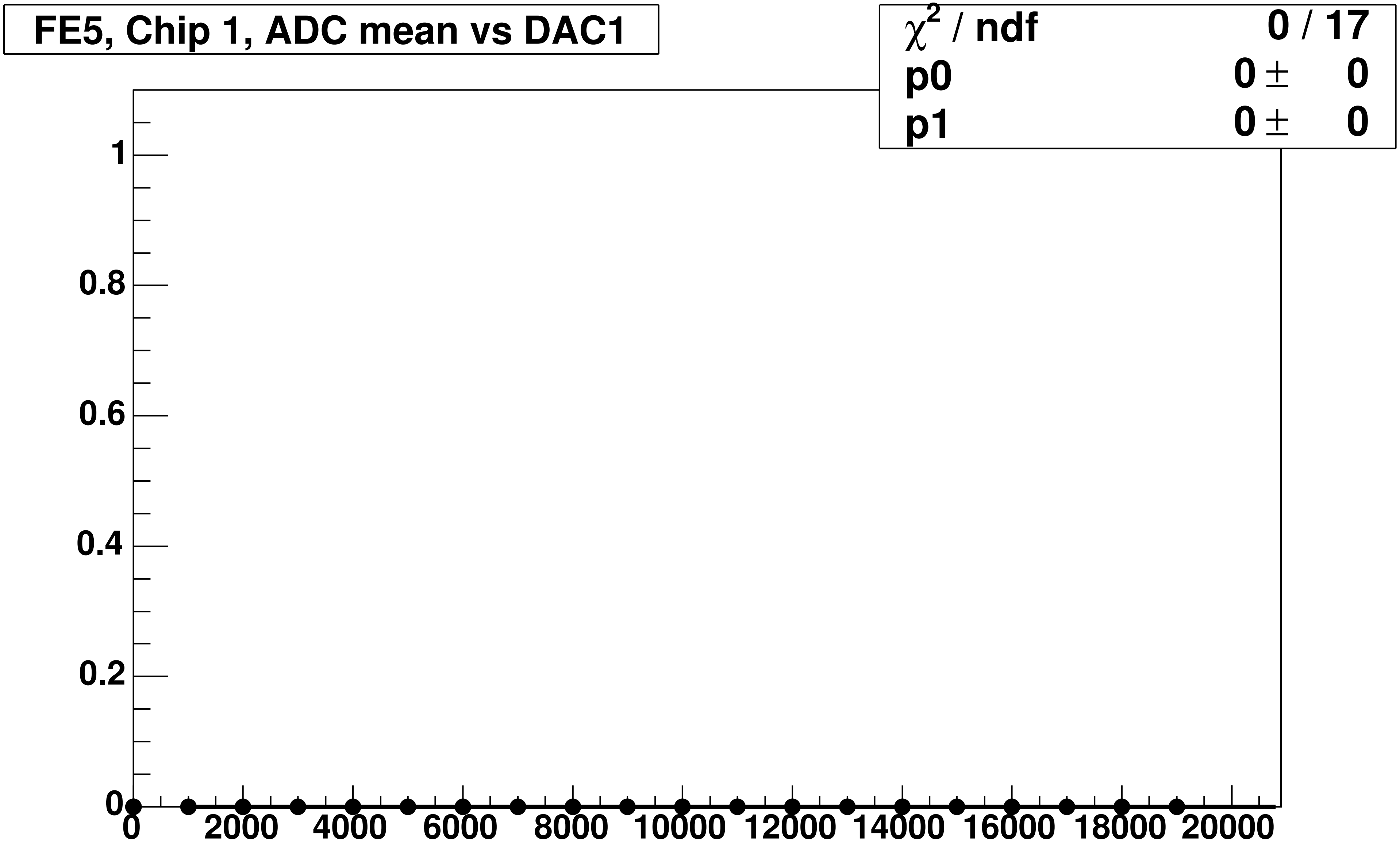

FE5, Chip 0, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

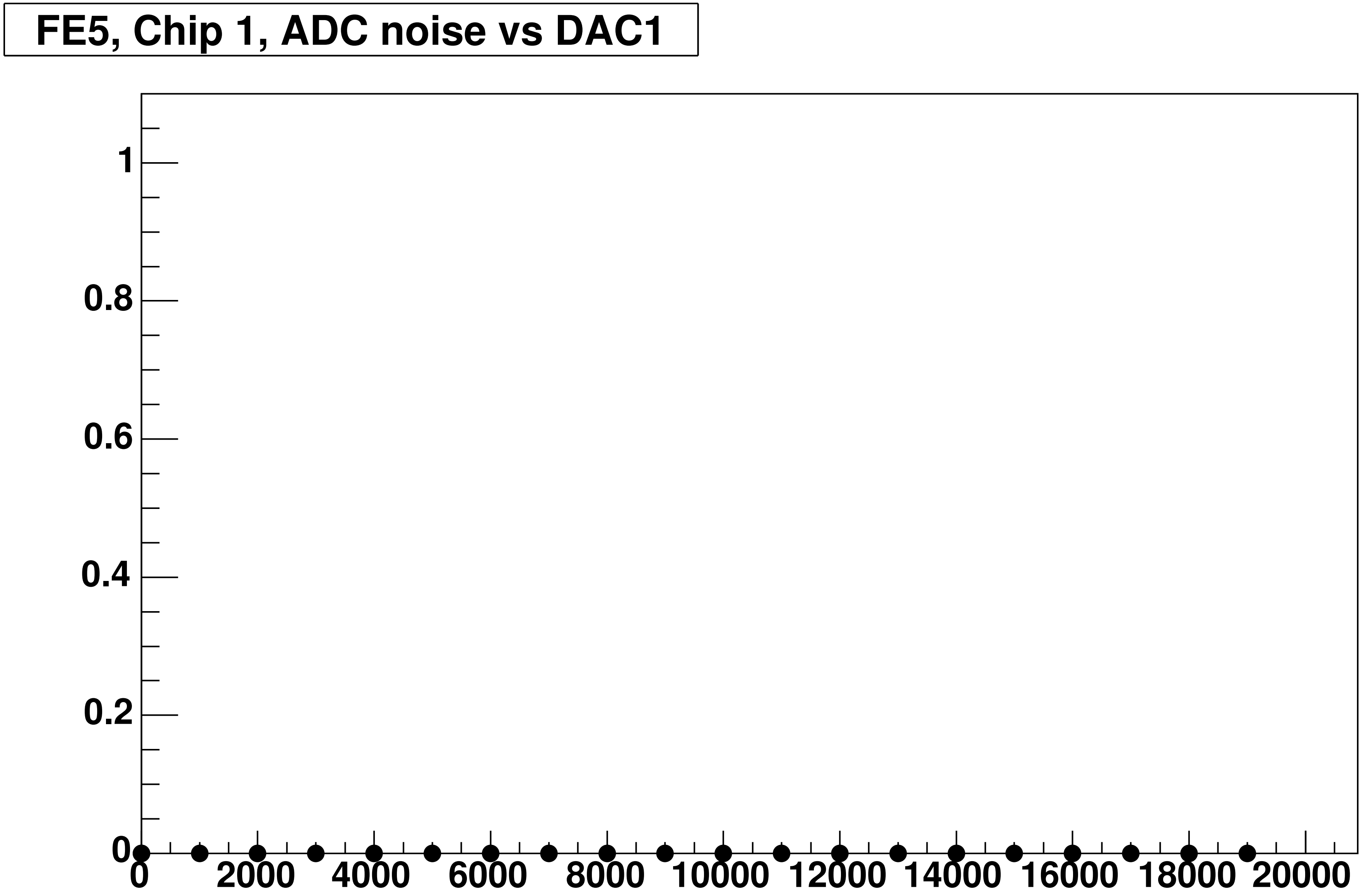

FE5, Chip 1, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

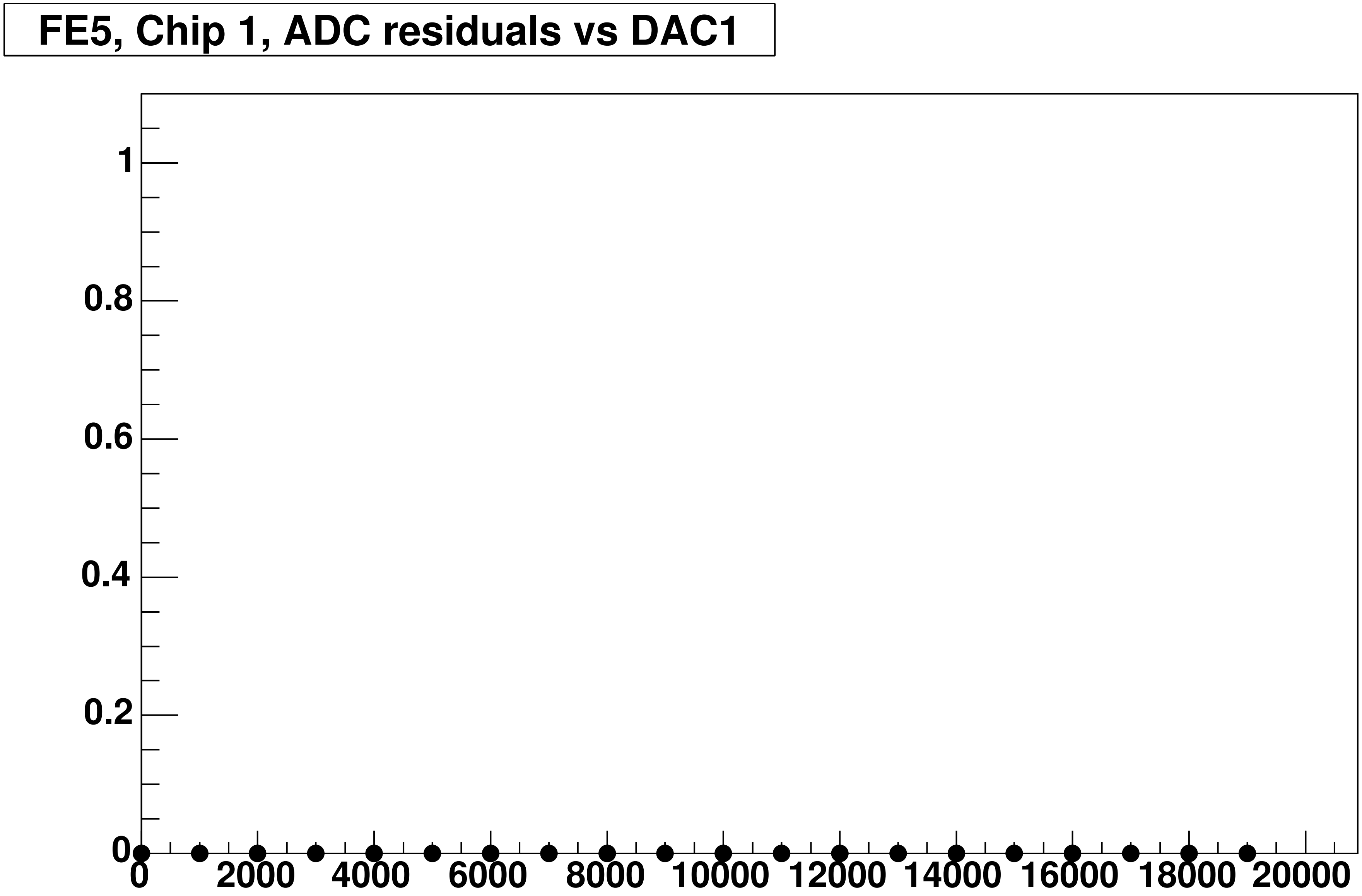
FE5, Chip 1, ADC noise vs DAC0



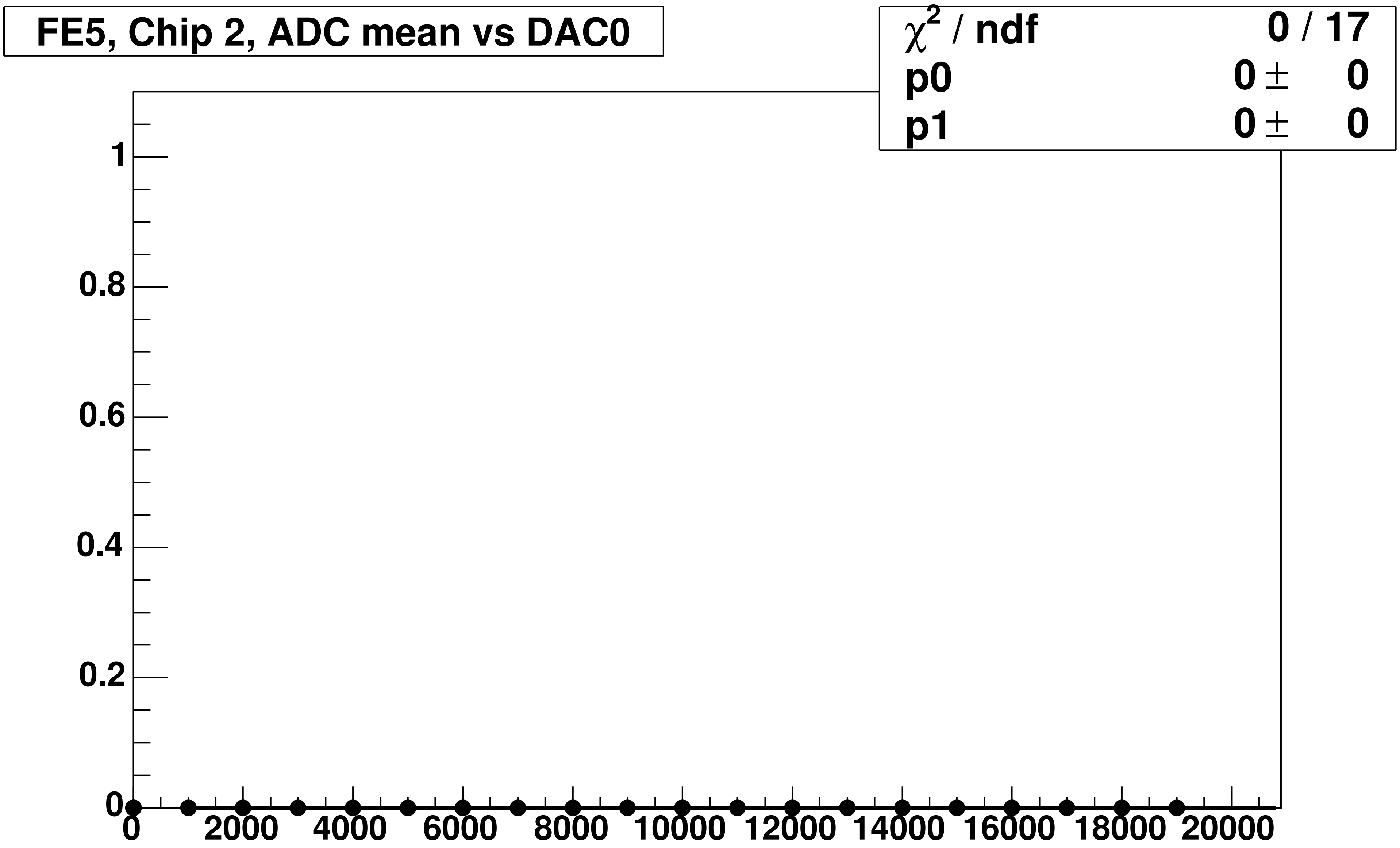

FE5, Chip 1, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

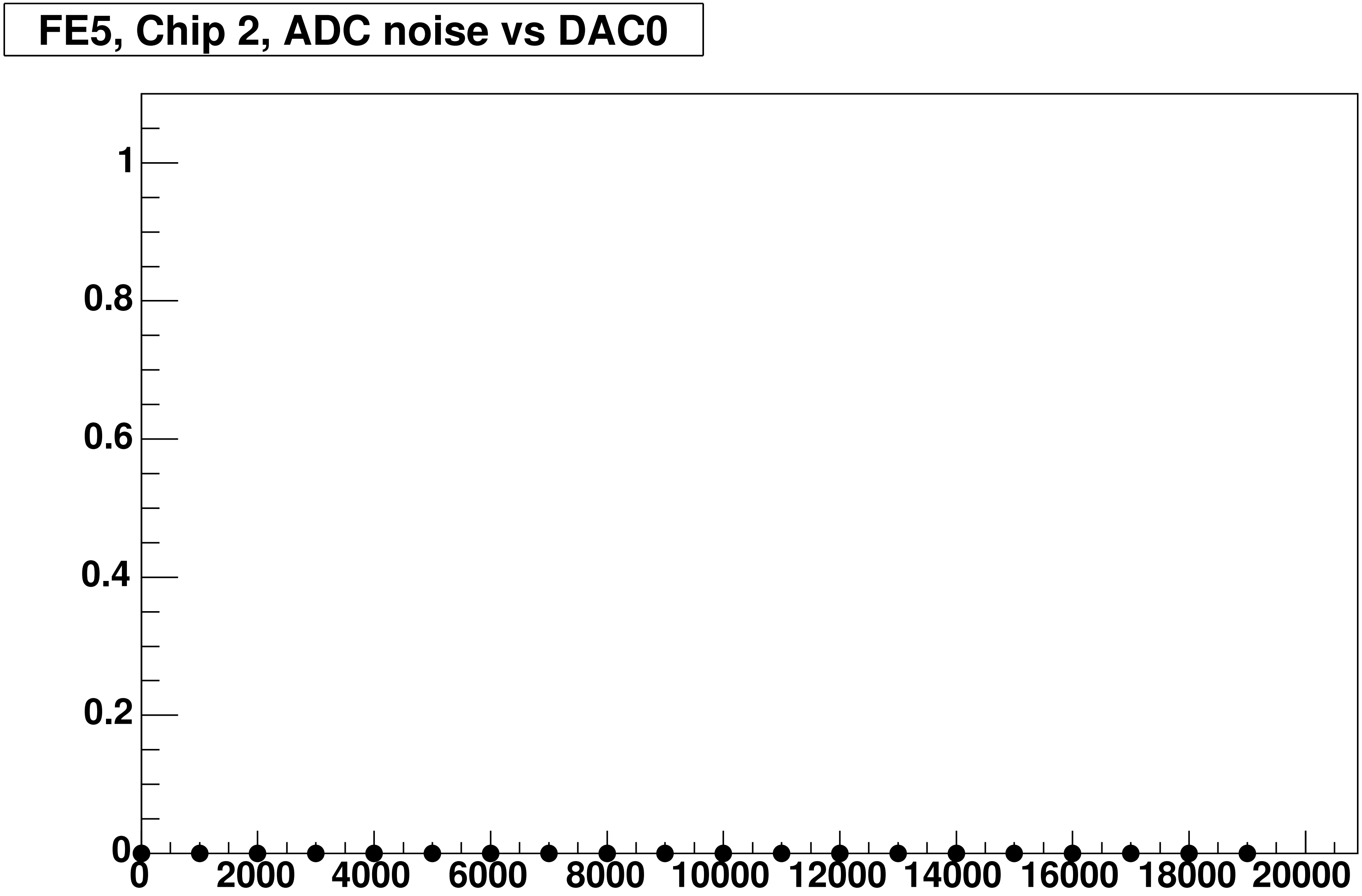

FE5, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 $\pm$ 0
p1 0 $\pm$ 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

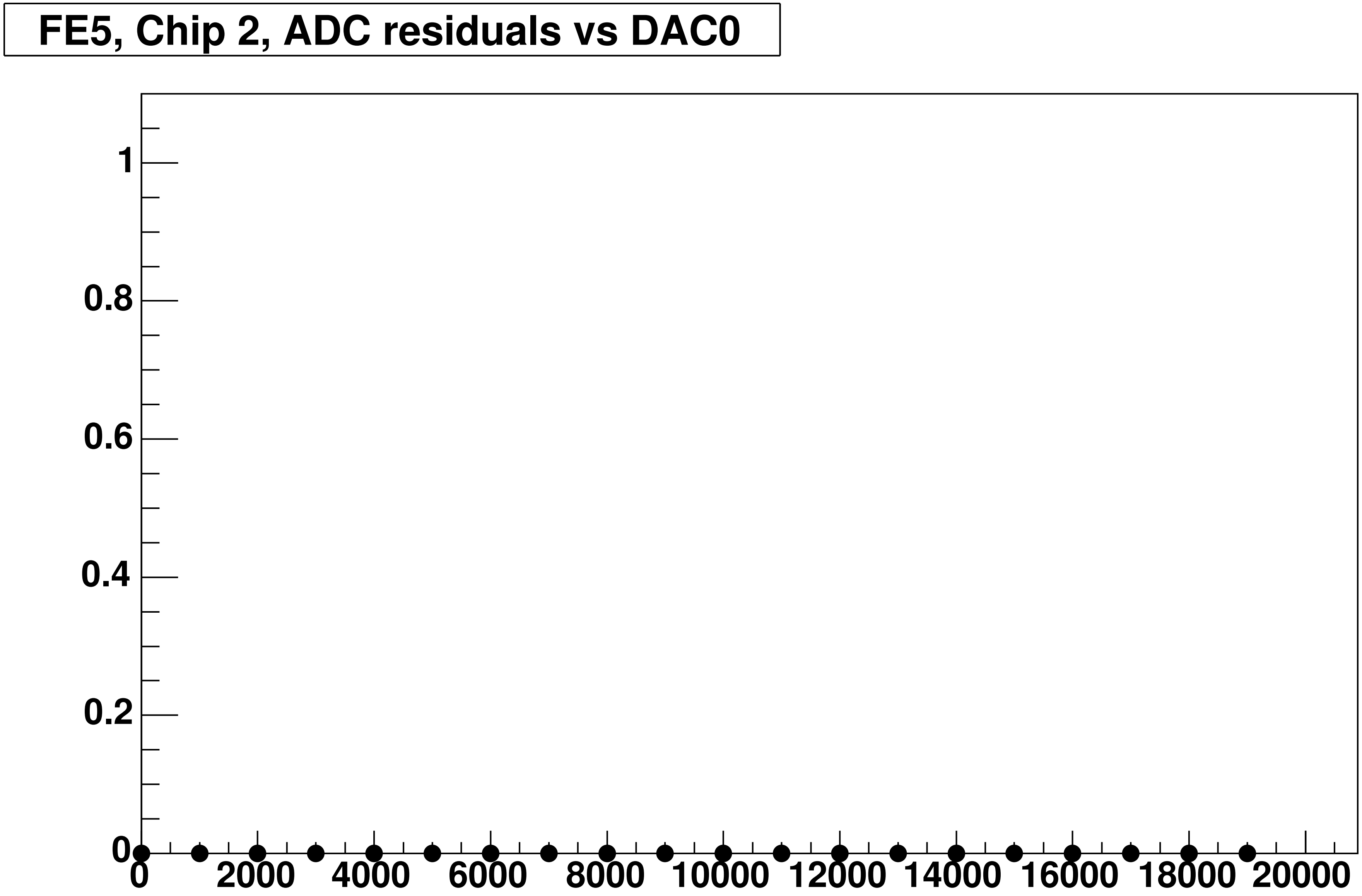

FE5, Chip 1, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

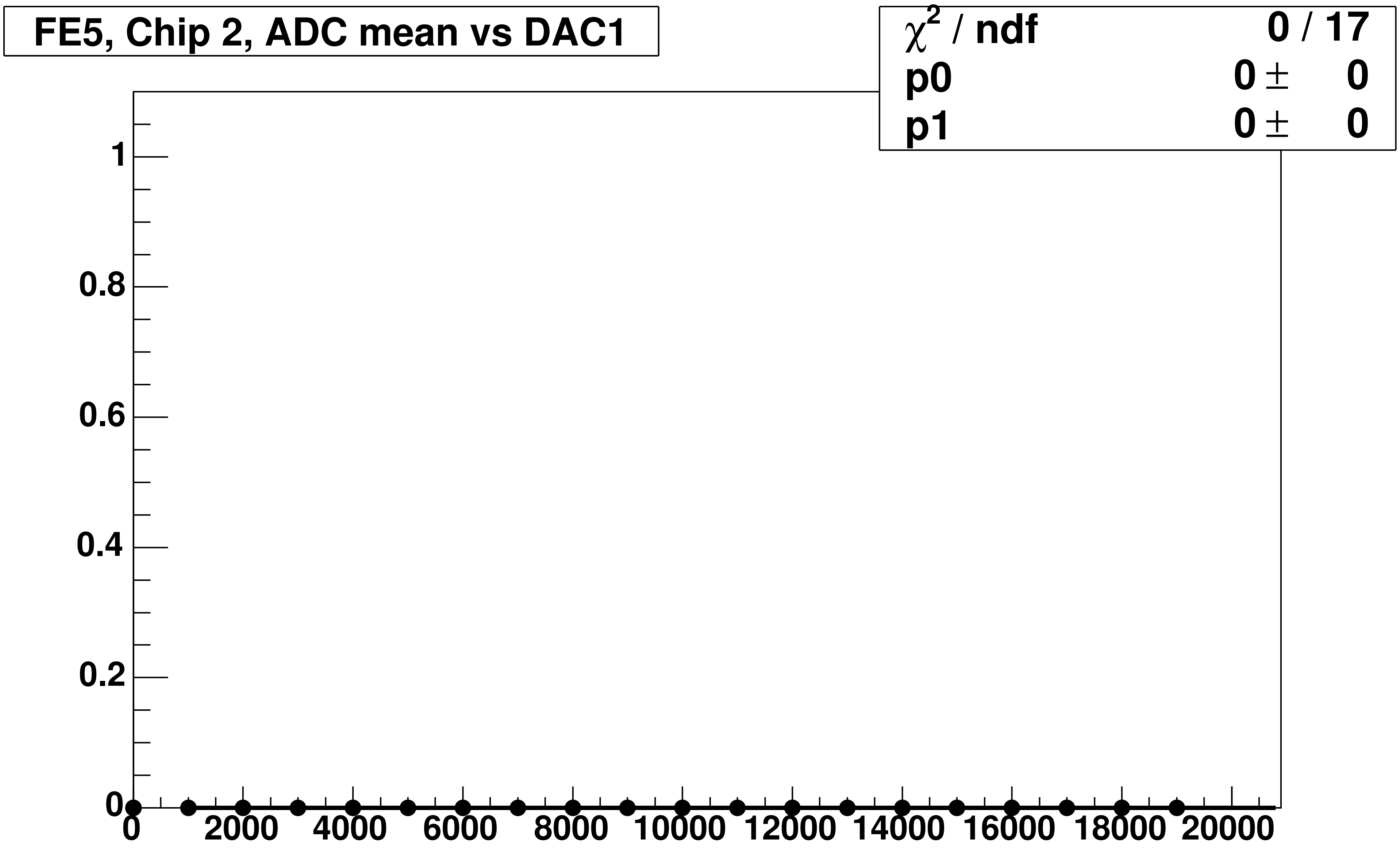


FE5, Chip 1, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

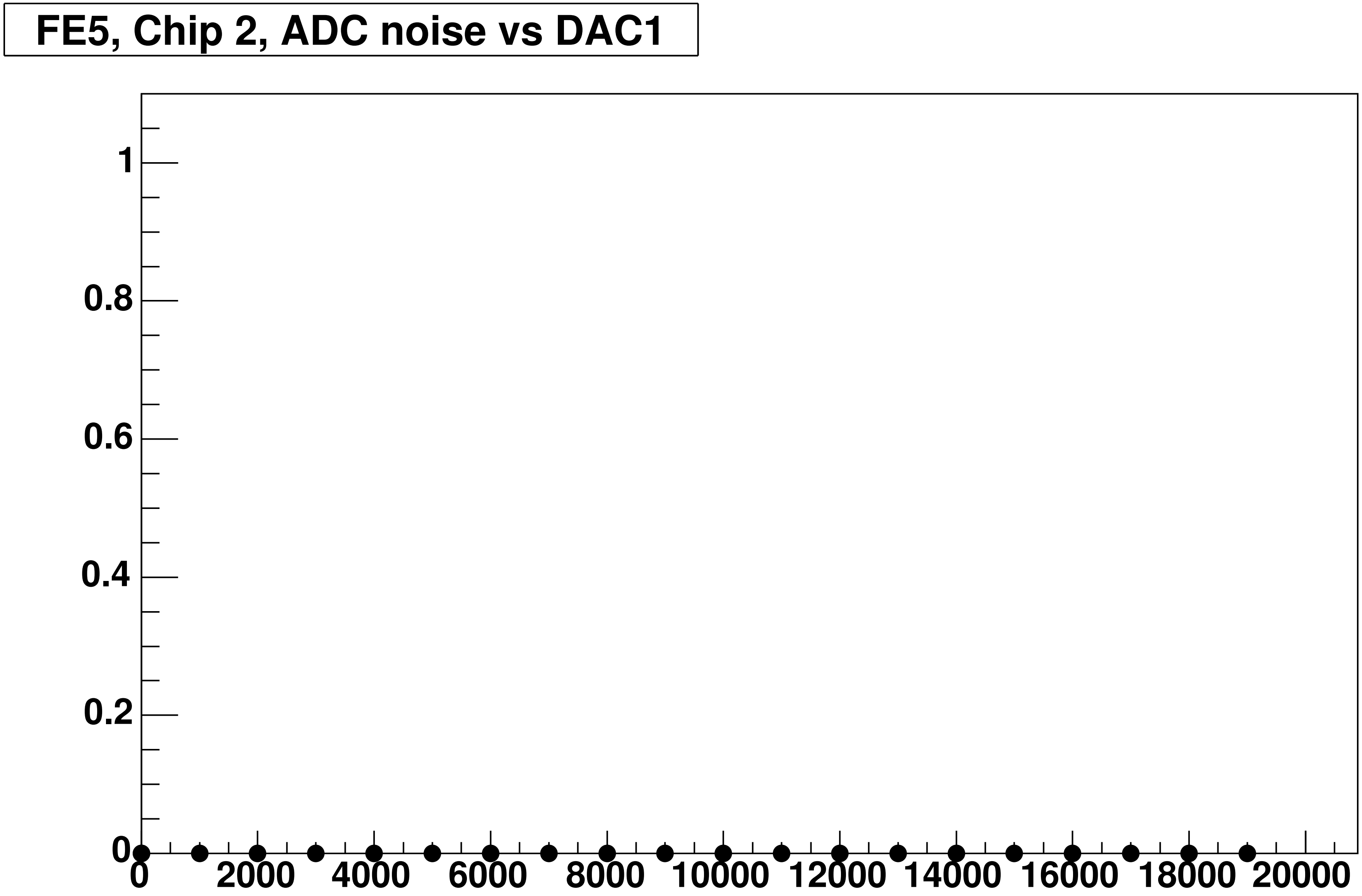

FE5, Chip 2, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 2, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 2, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



FE5, Chip 2, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



FE5, Chip 2, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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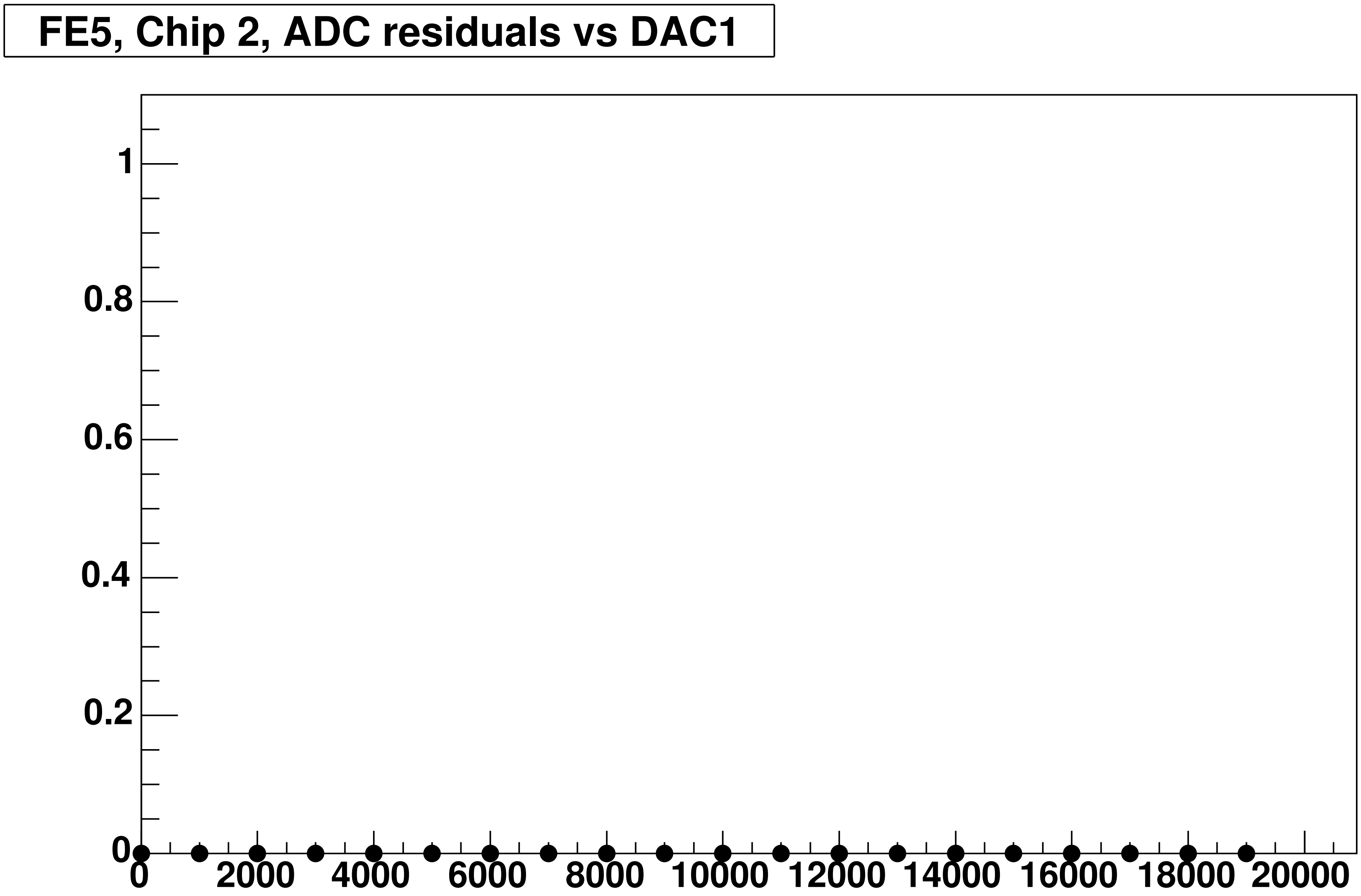
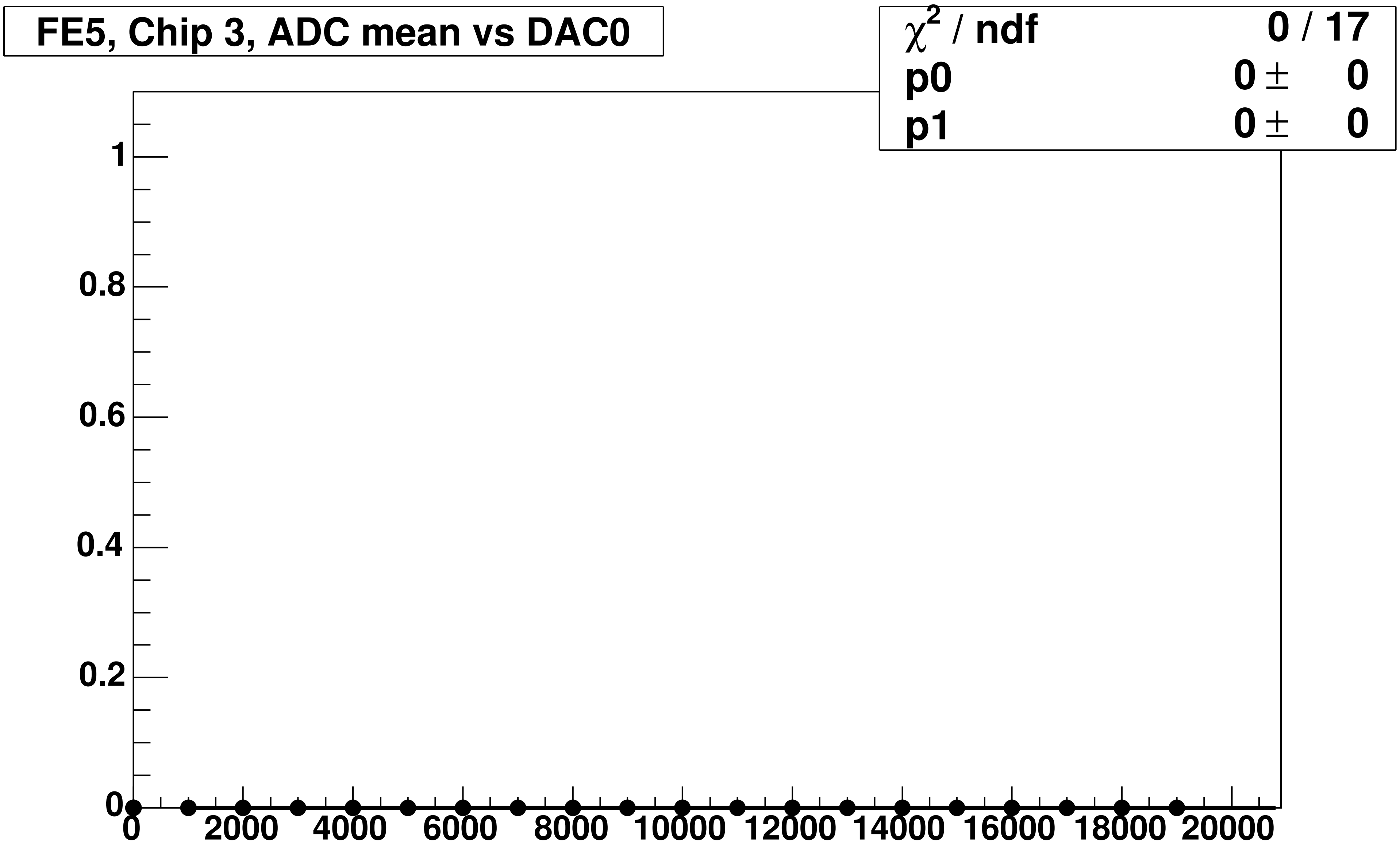
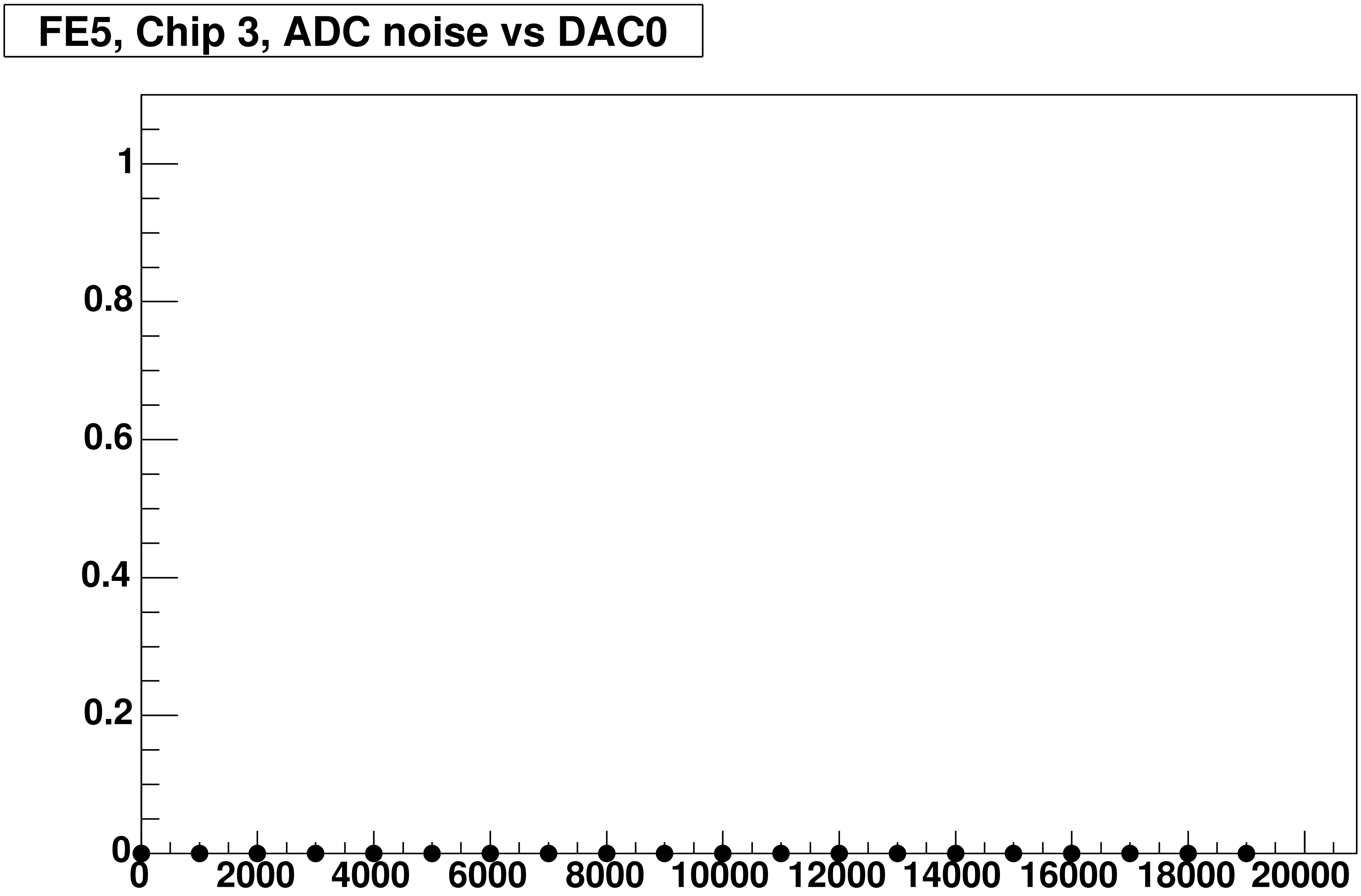
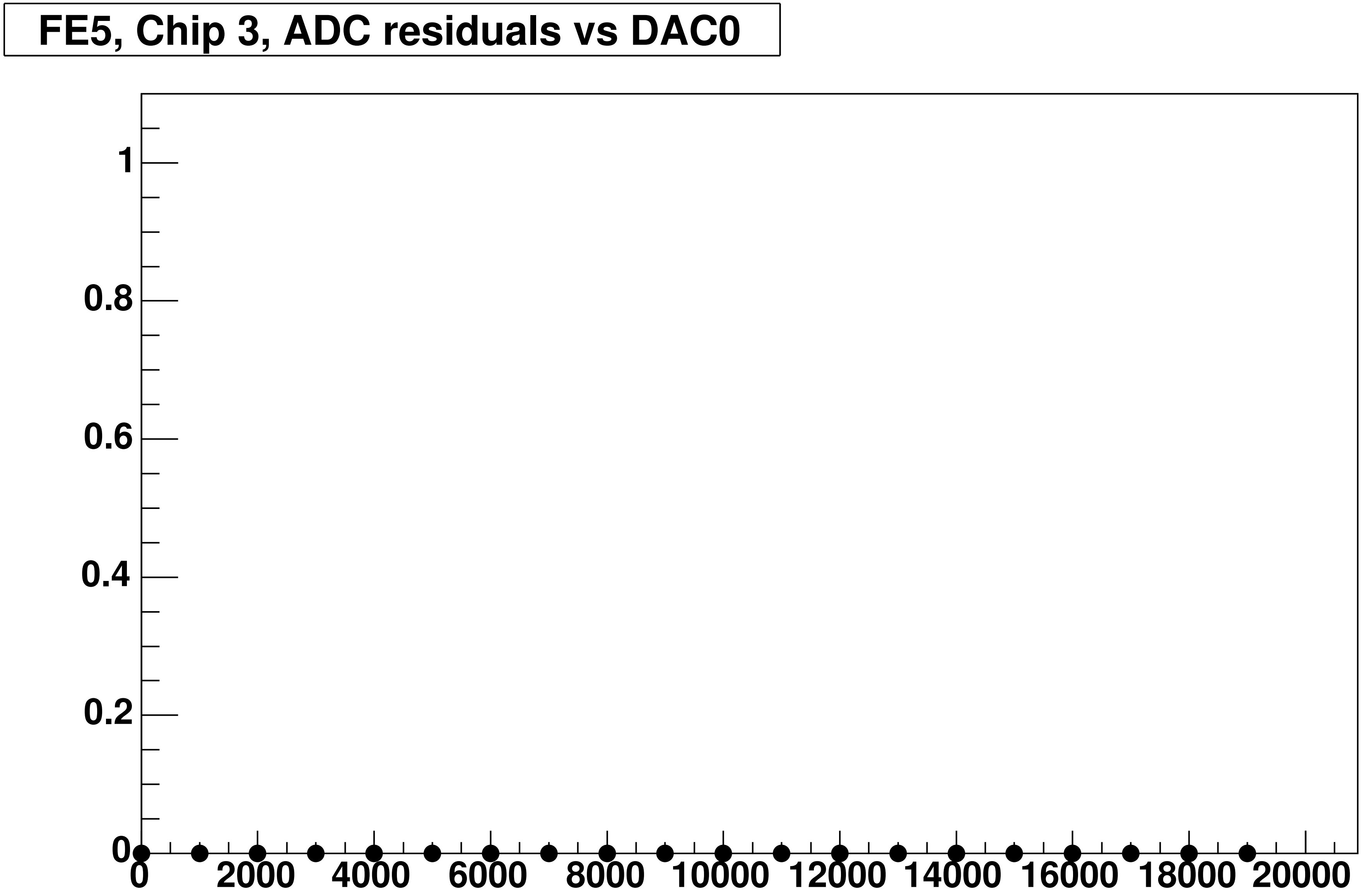
14000
16000
18000
20000

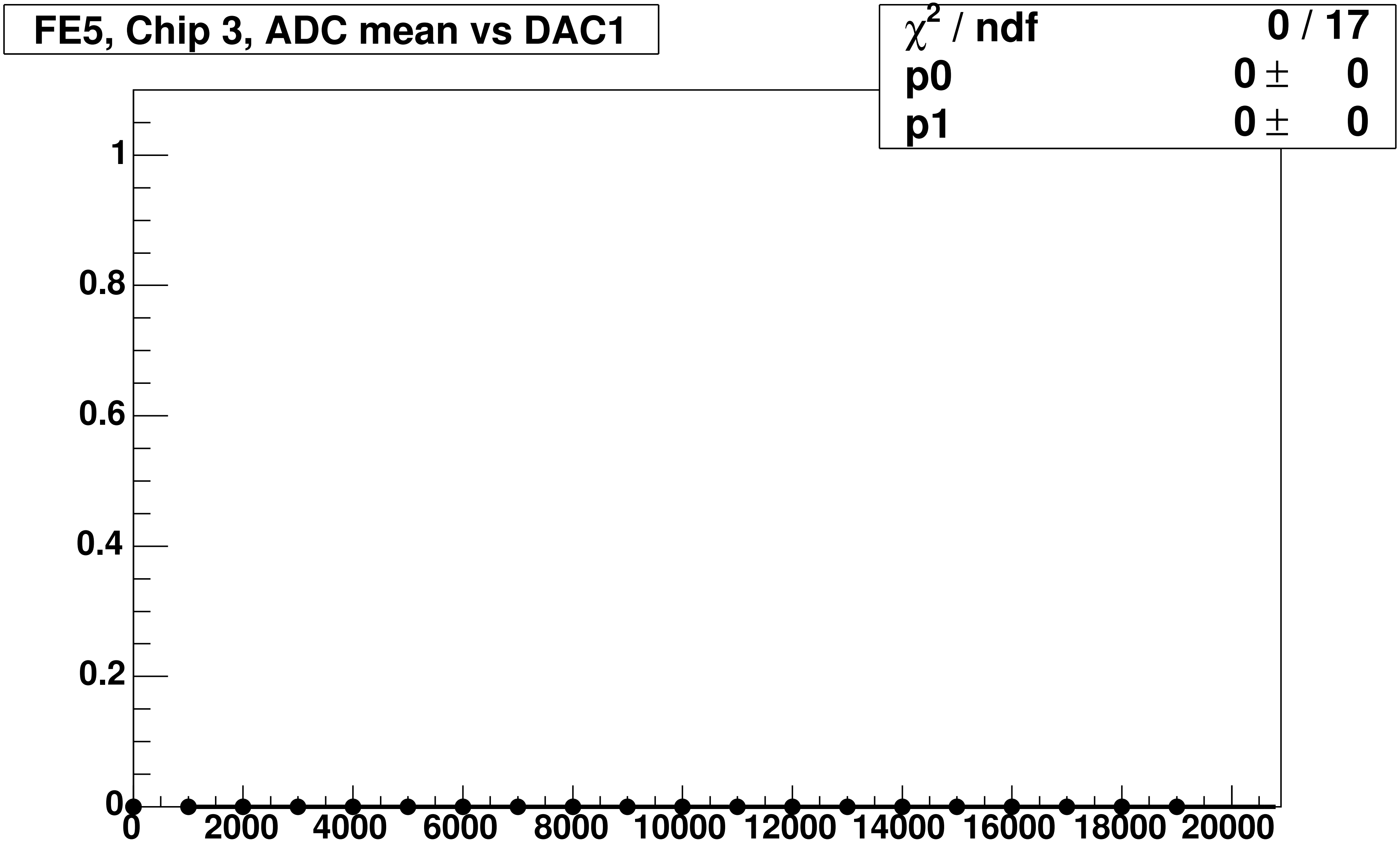

FE5, Chip 2, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

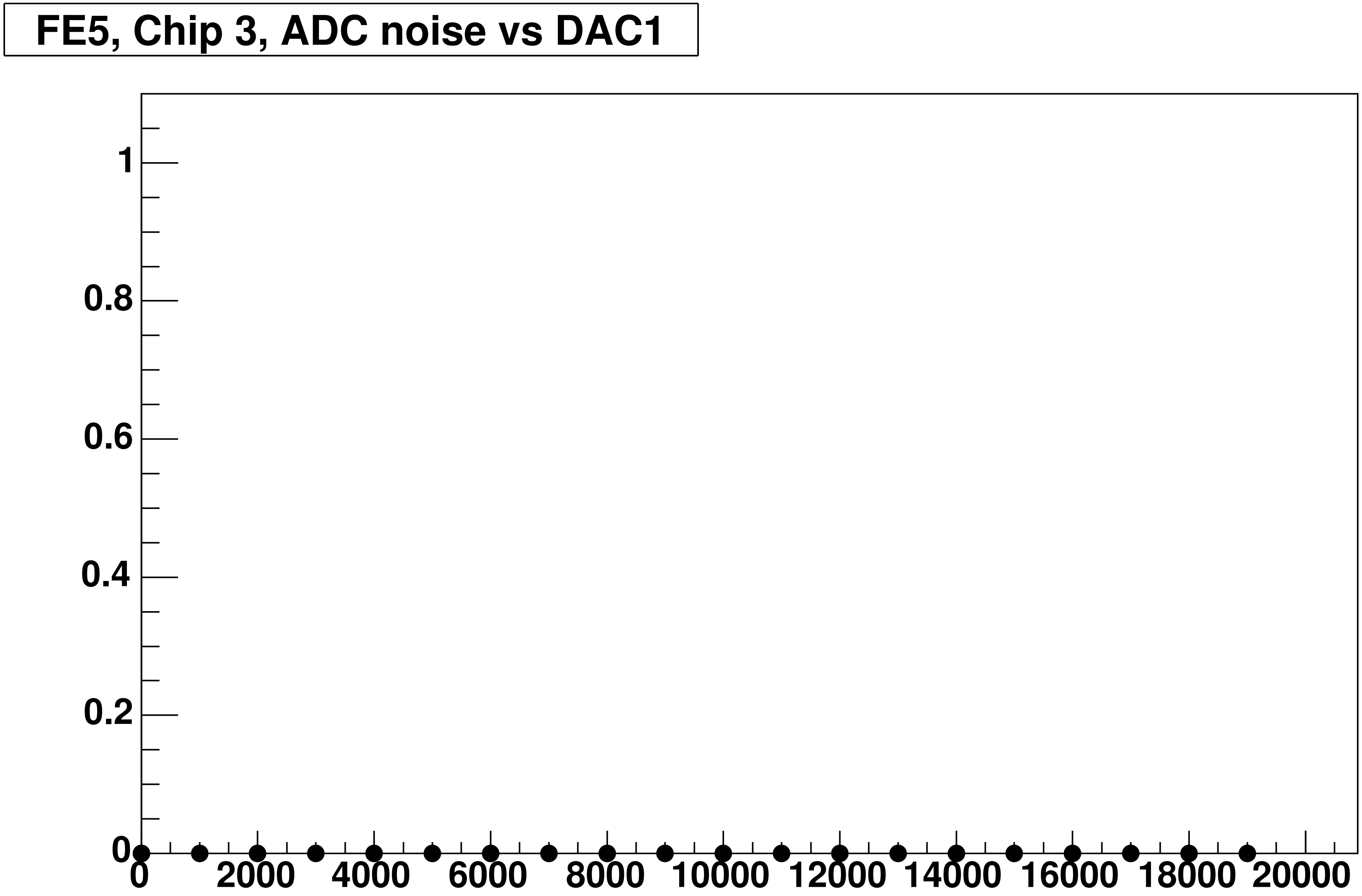


FE5, Chip 3, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 3, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



FE5, Chip 3, ADC mean vs DAC1
χ² / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 3, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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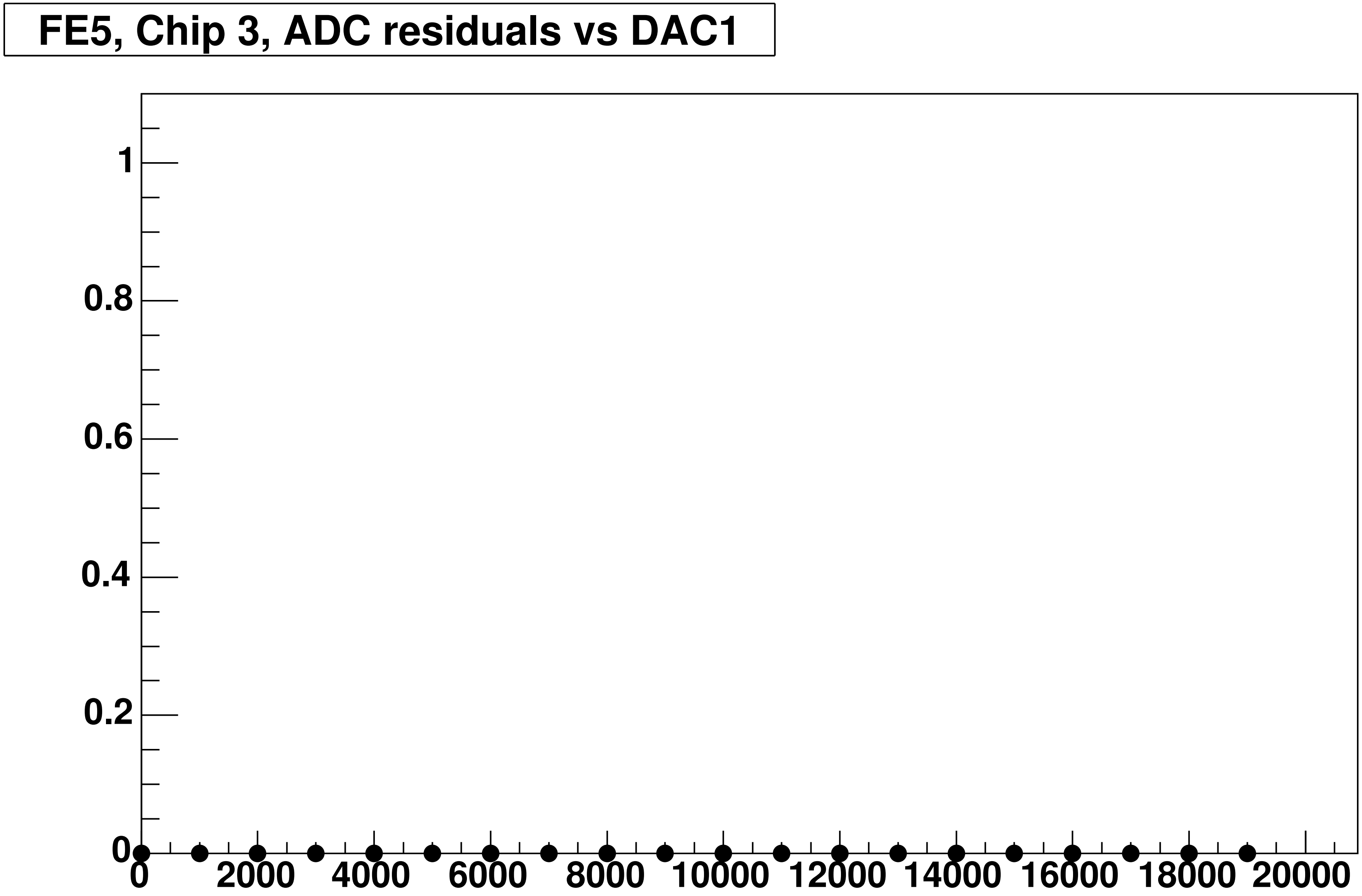
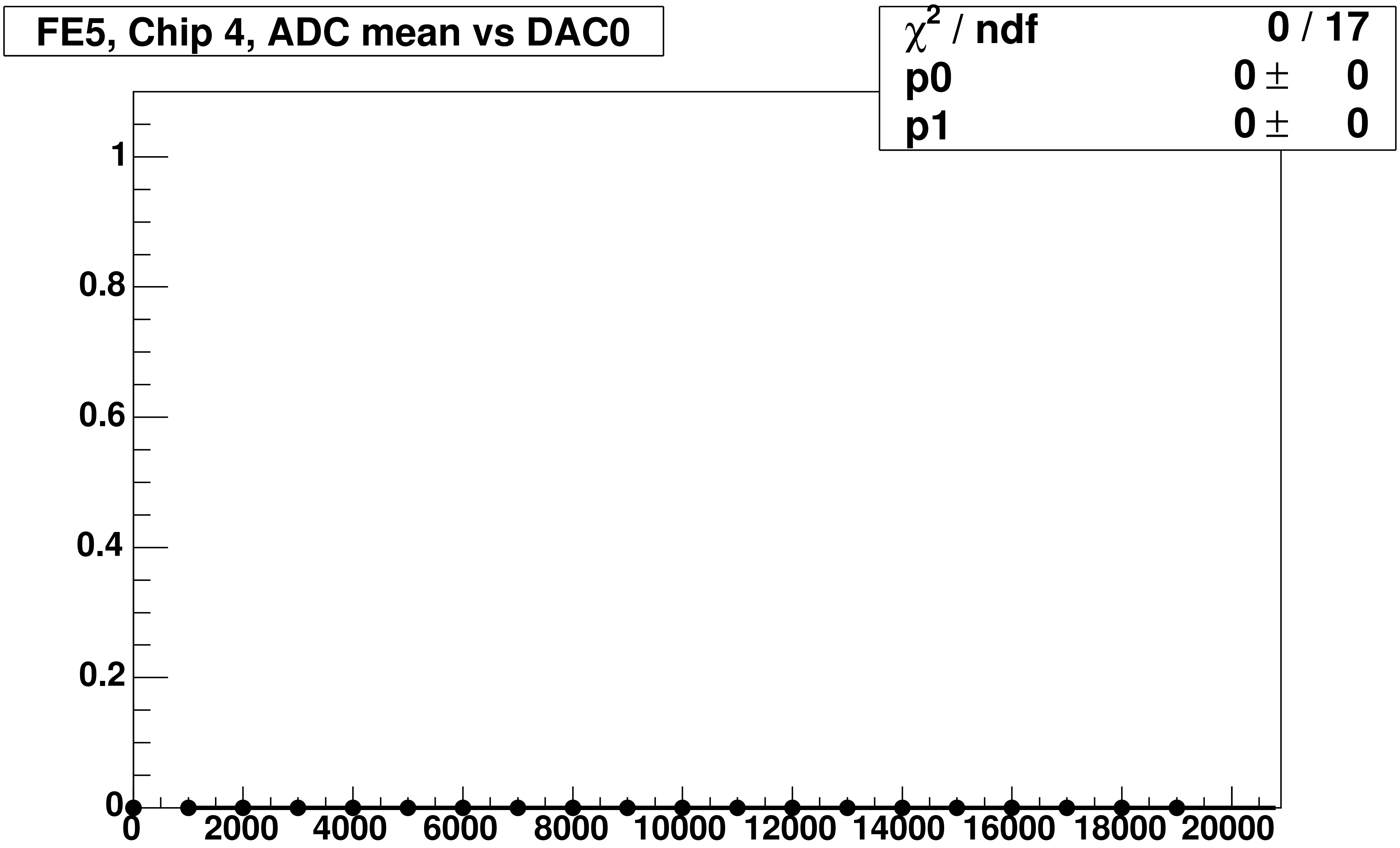
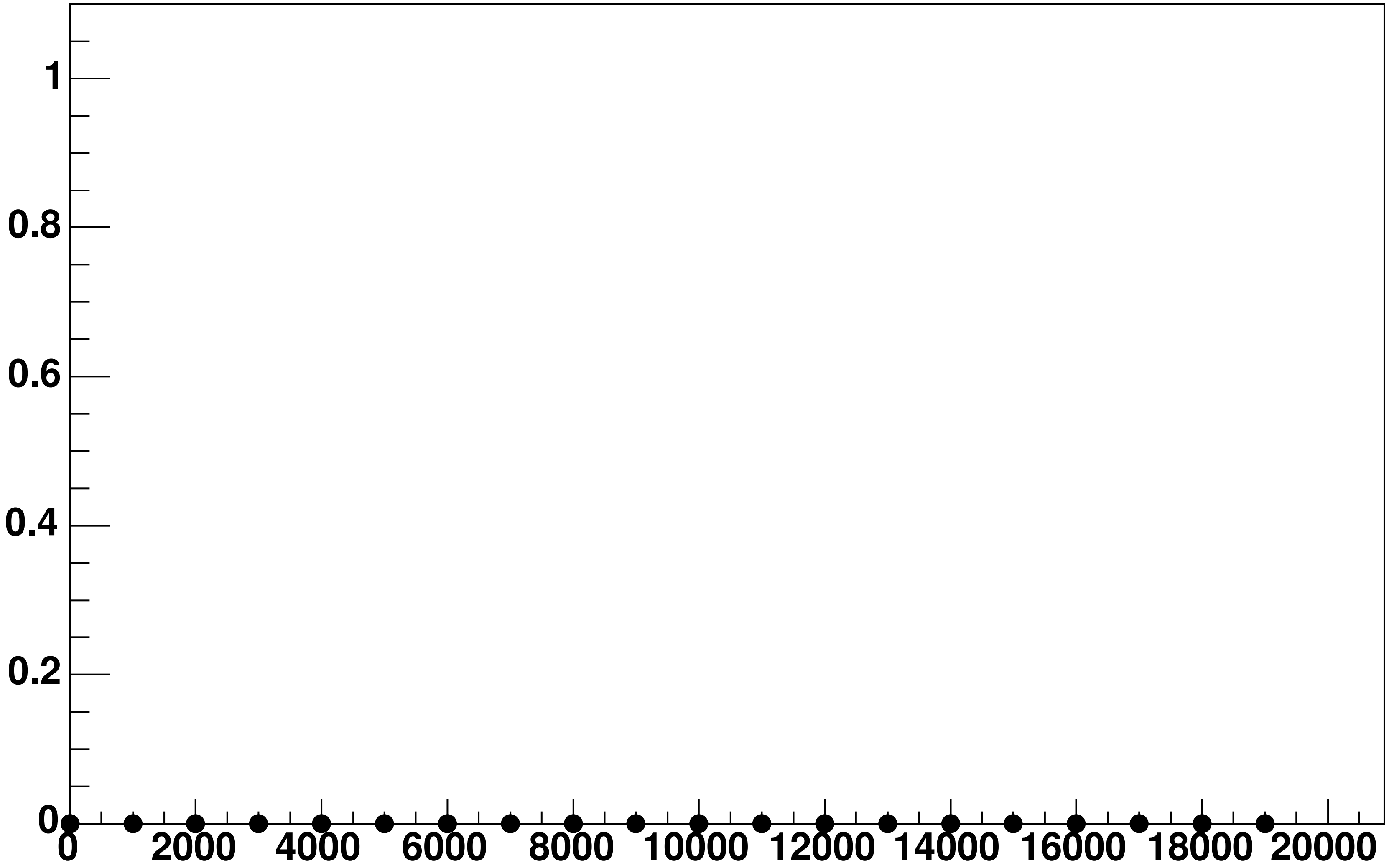
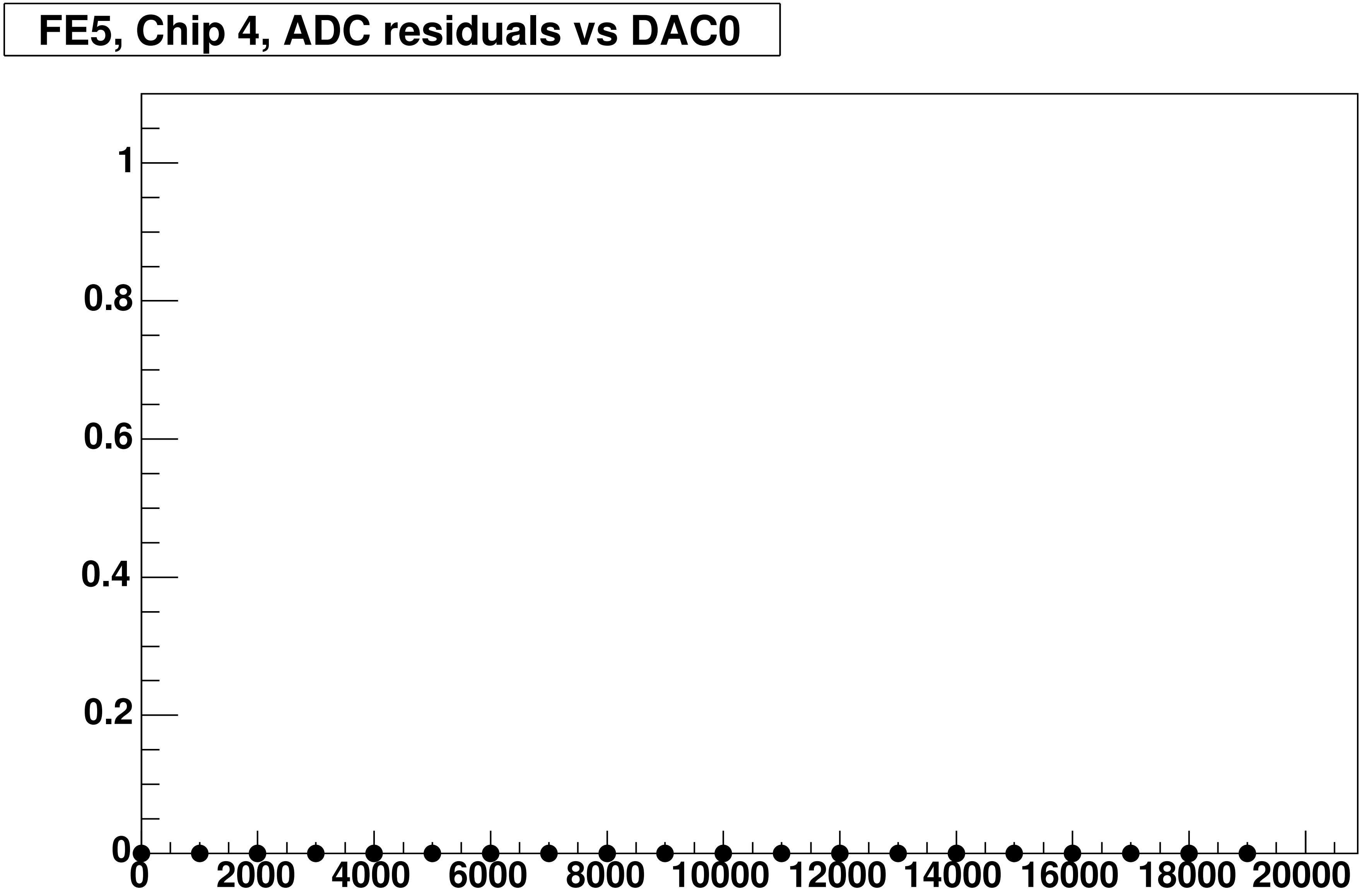
14000
16000
18000
20000

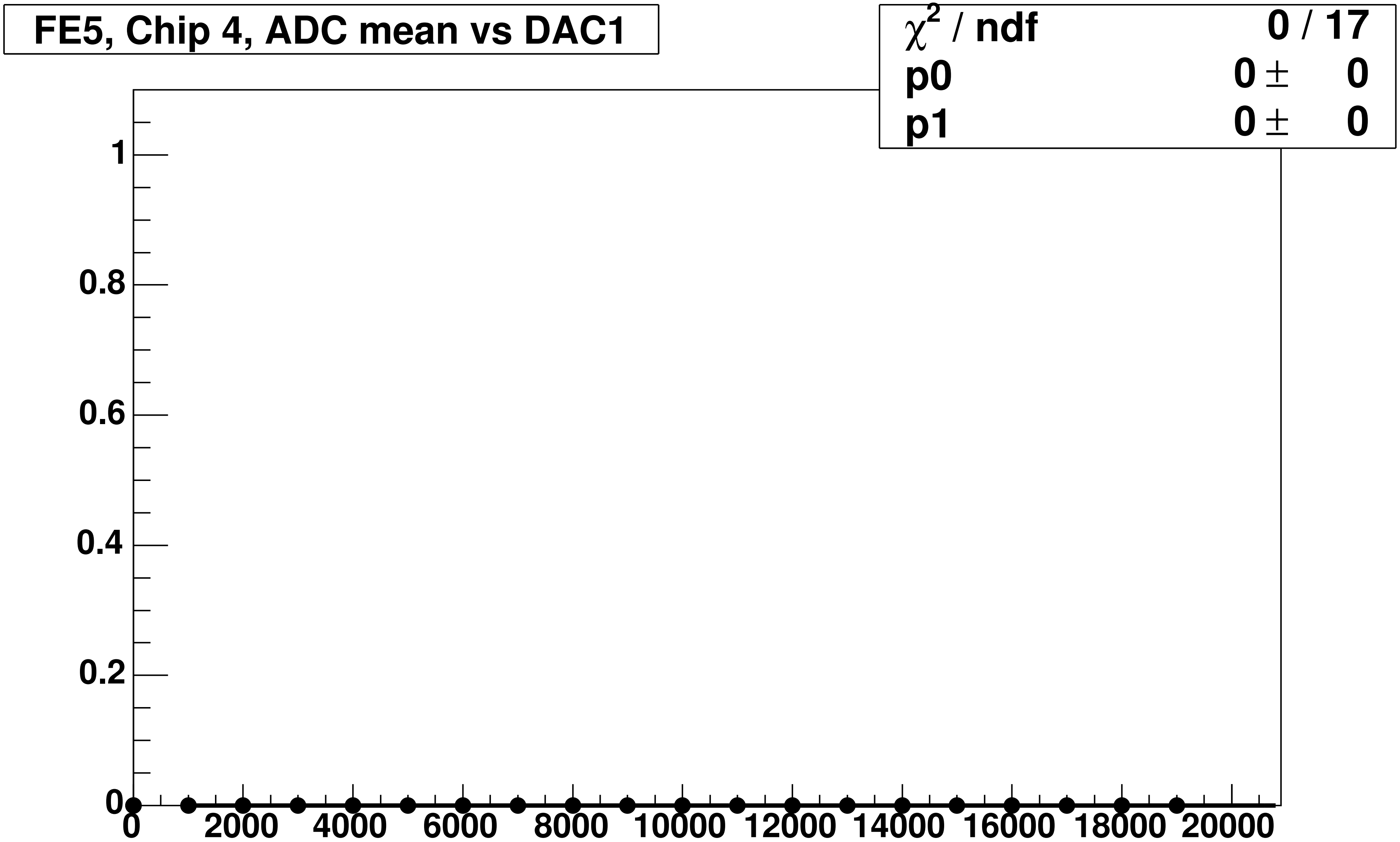

FE5, Chip 3, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 4, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

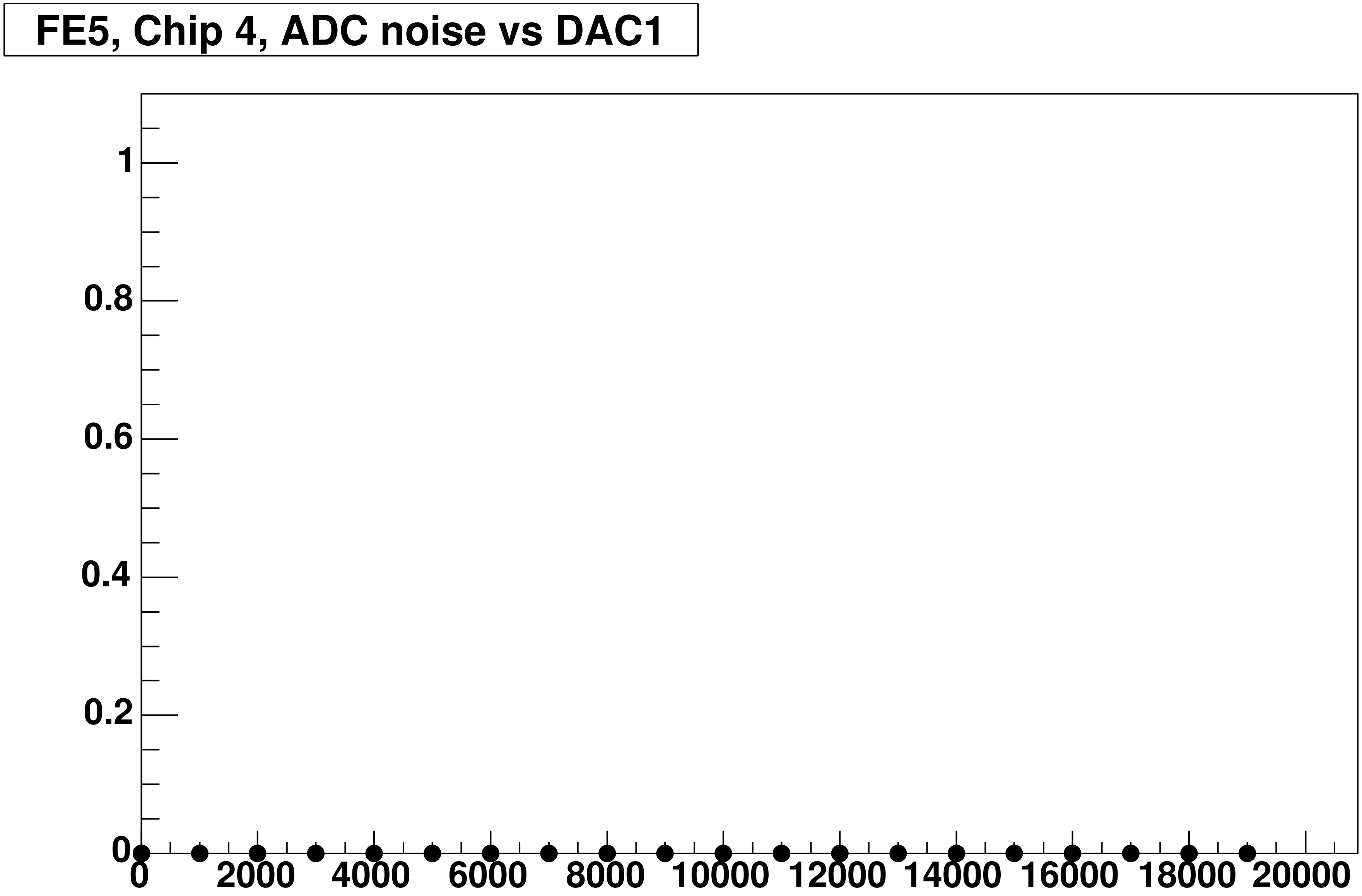
FE5, Chip 4, ADC noise vs DAC0



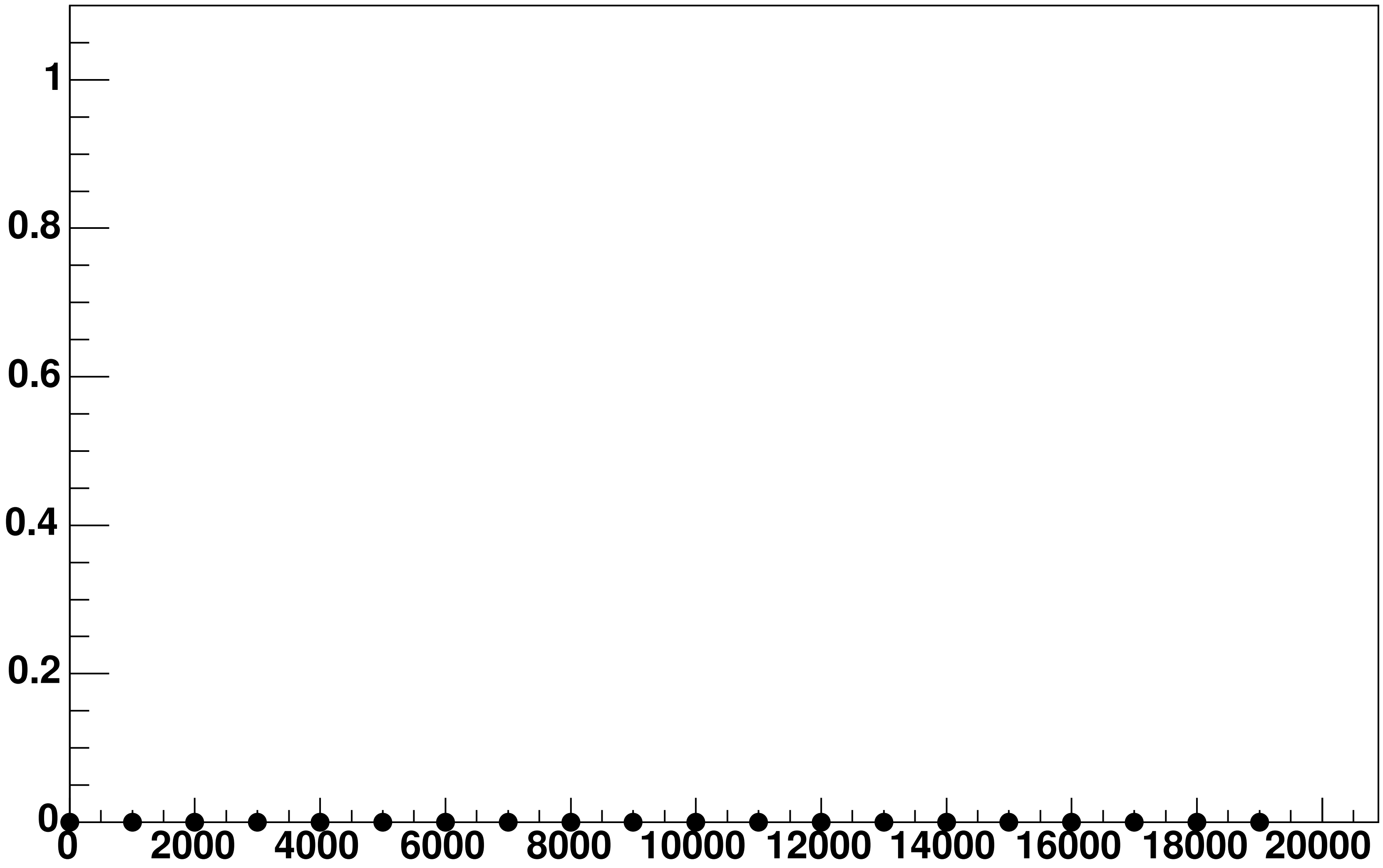

FE5, Chip 4, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

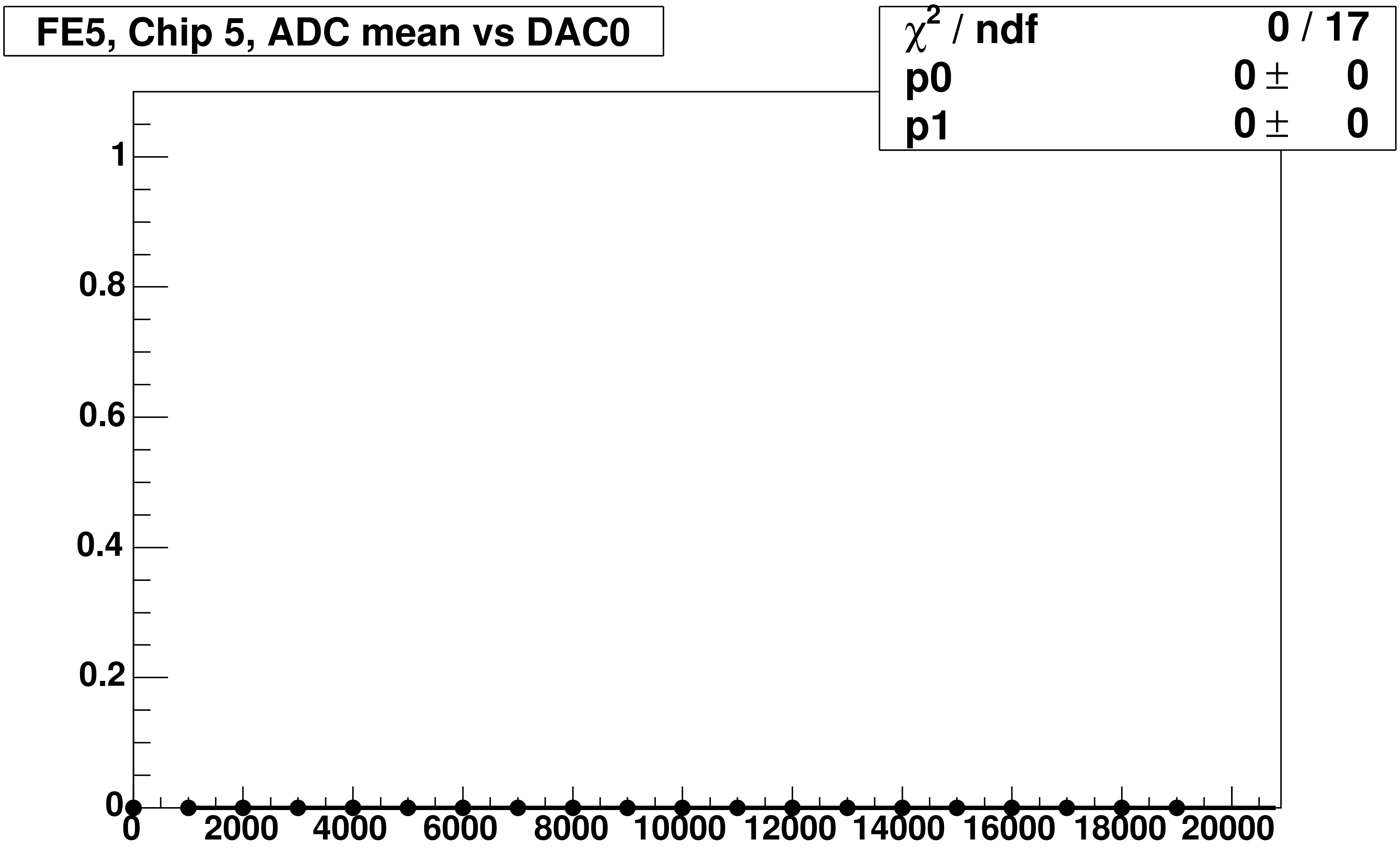


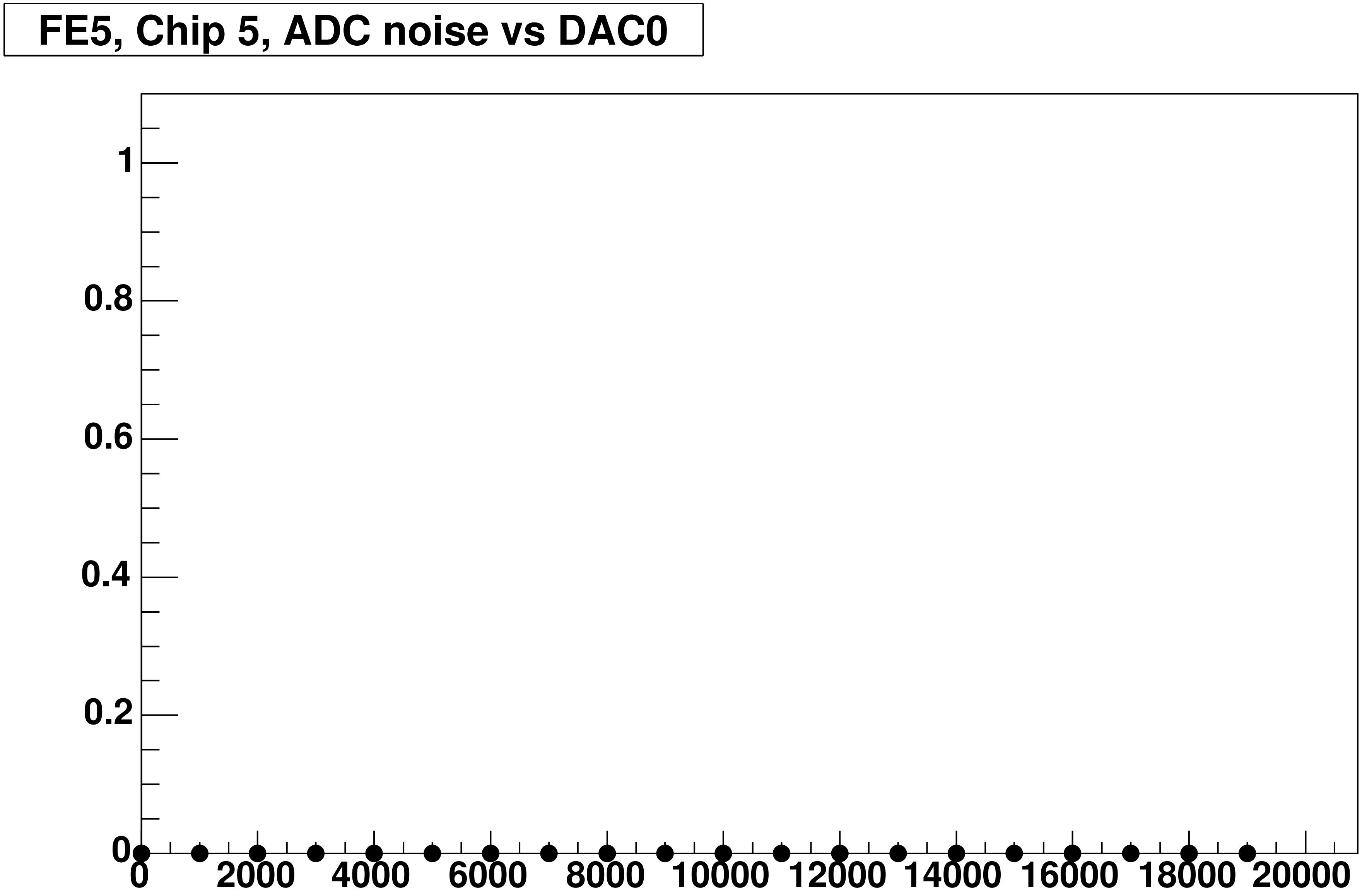
FE5, Chip 4, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

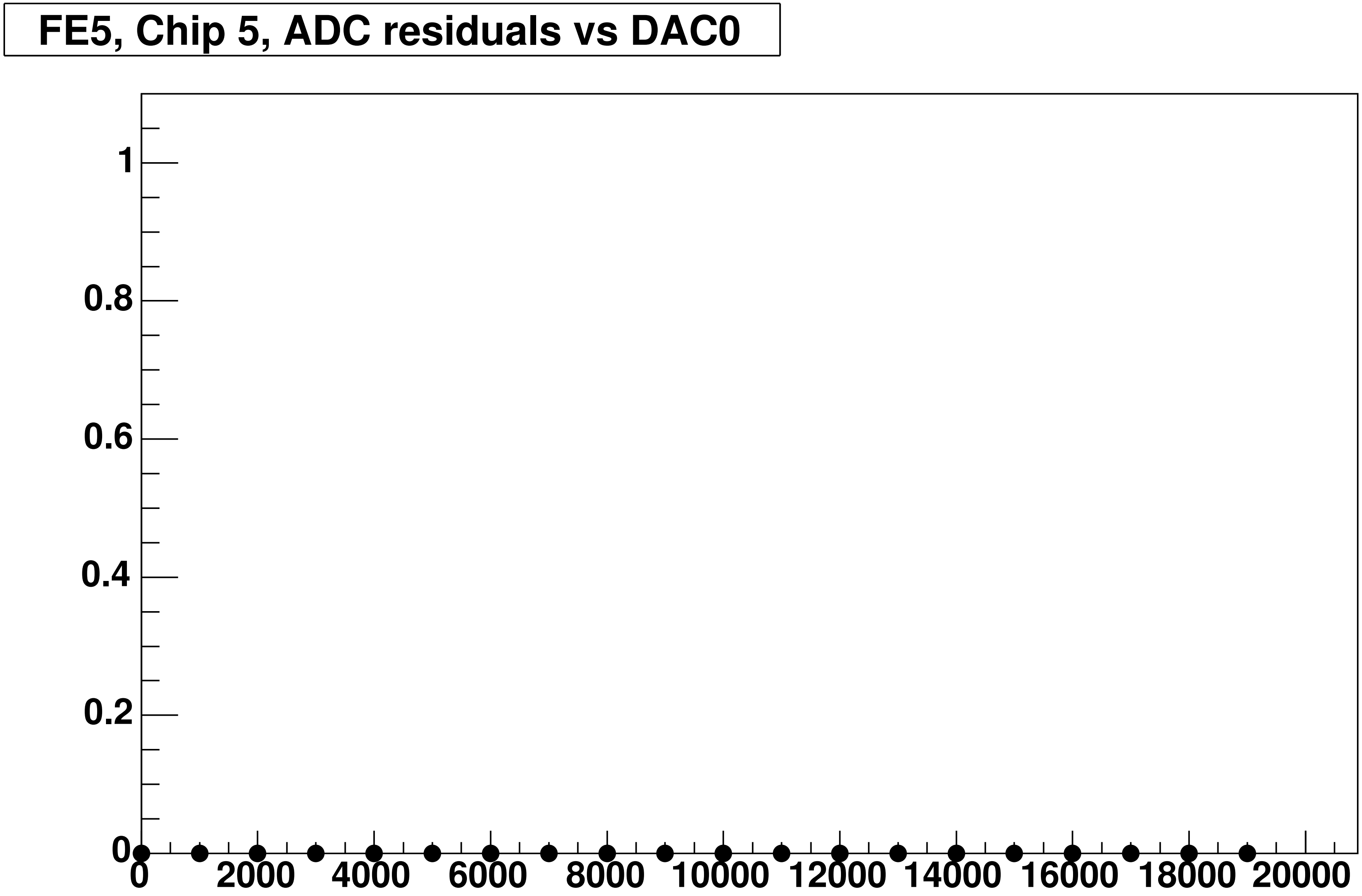

FE5, Chip 4, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

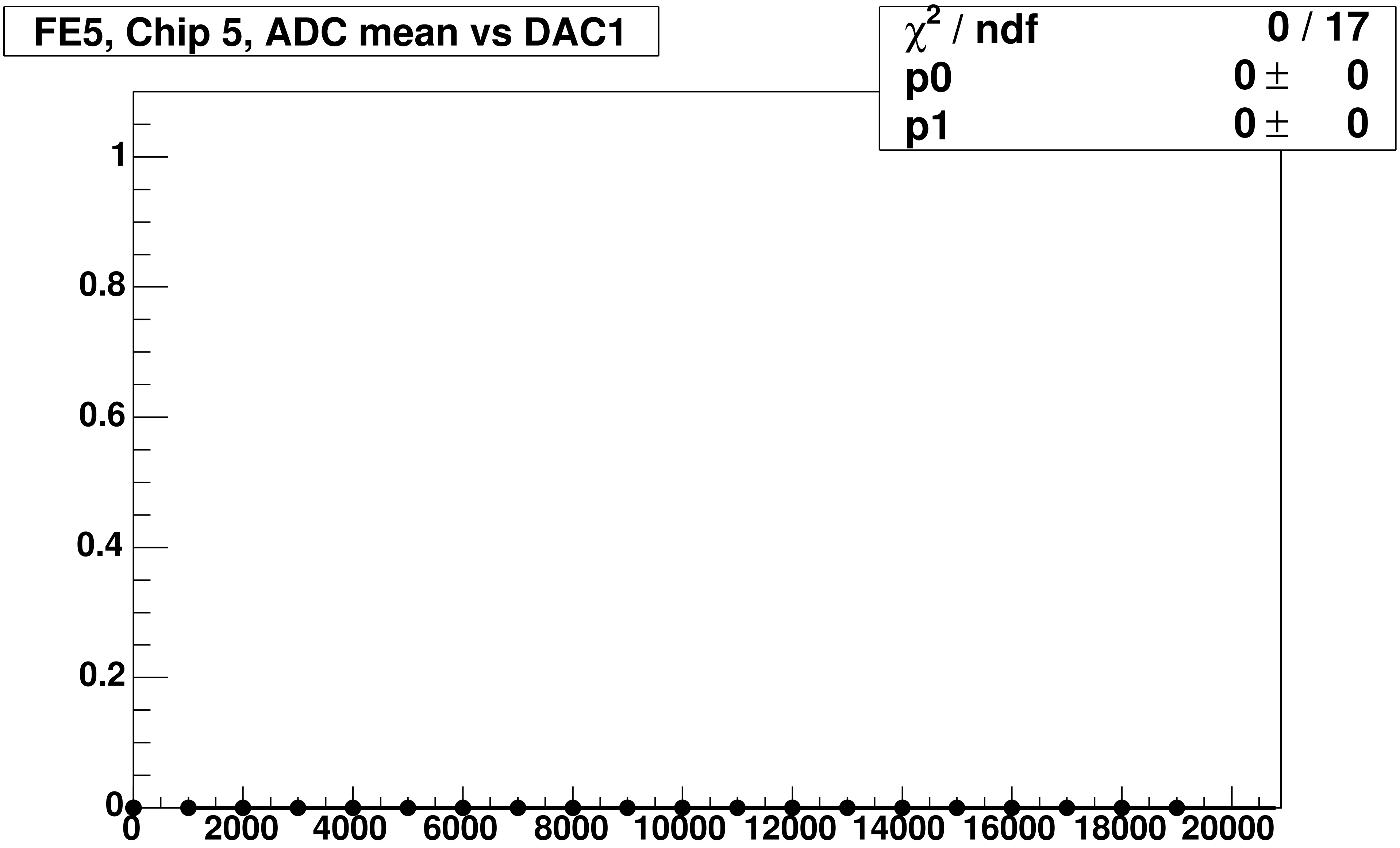
FE5, Chip 4, ADC residuals vs DAC1



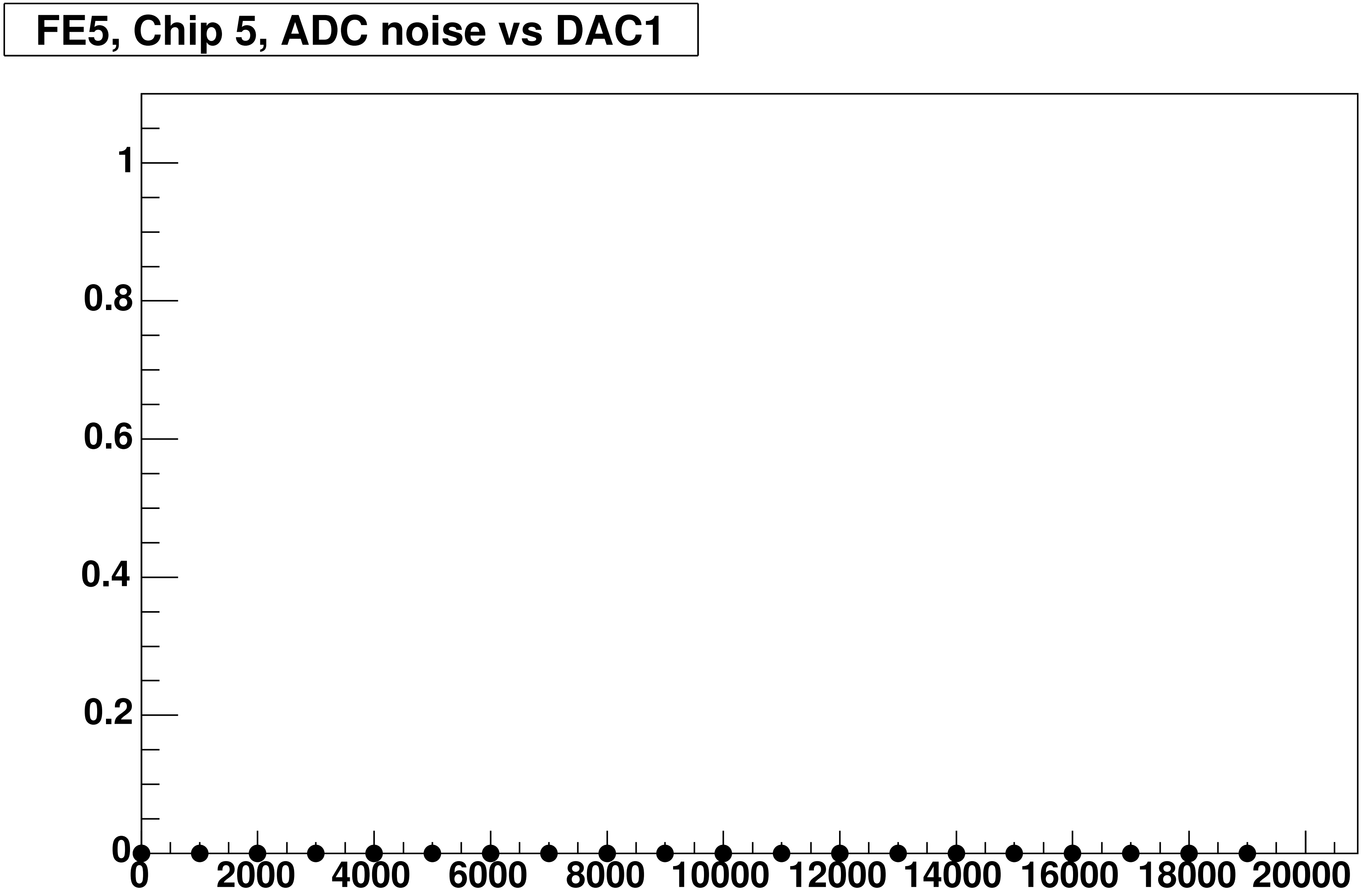

FE5, Chip 5, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 5, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 5, ADC residuals vs DAC0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



FE5, Chip 5, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 5, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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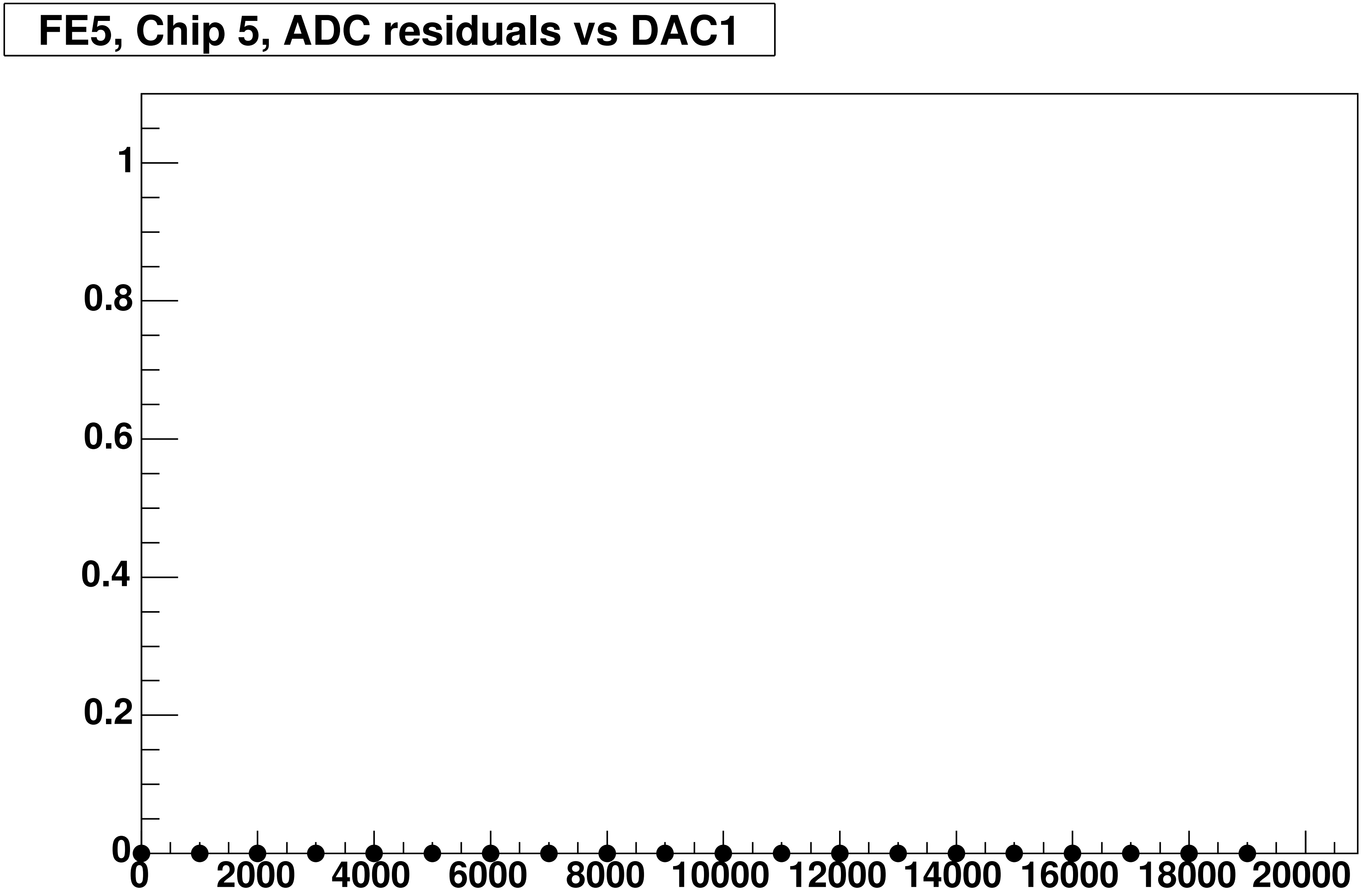
14000
16000
18000
20000


FE5, Chip 5, ADC residuals vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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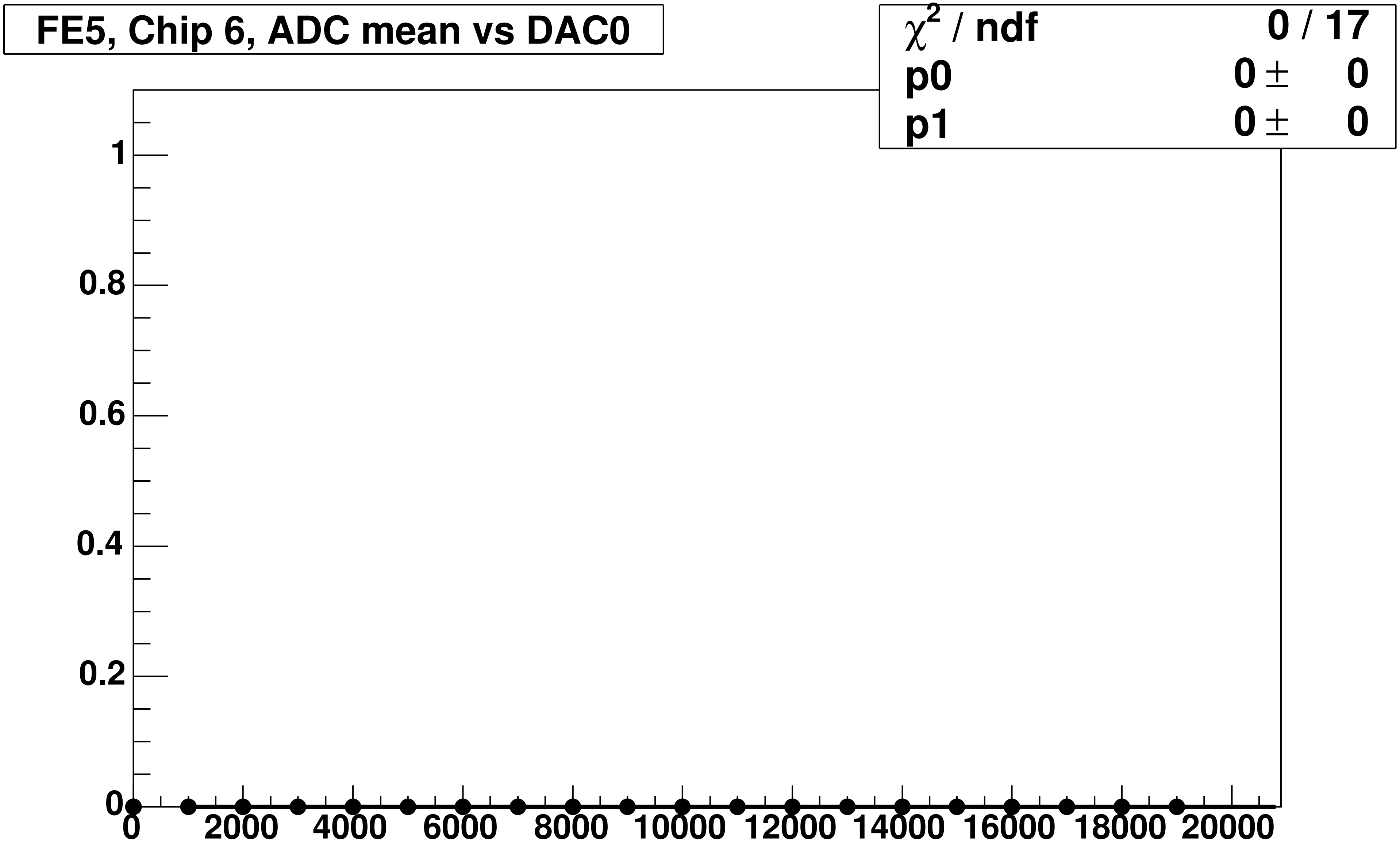
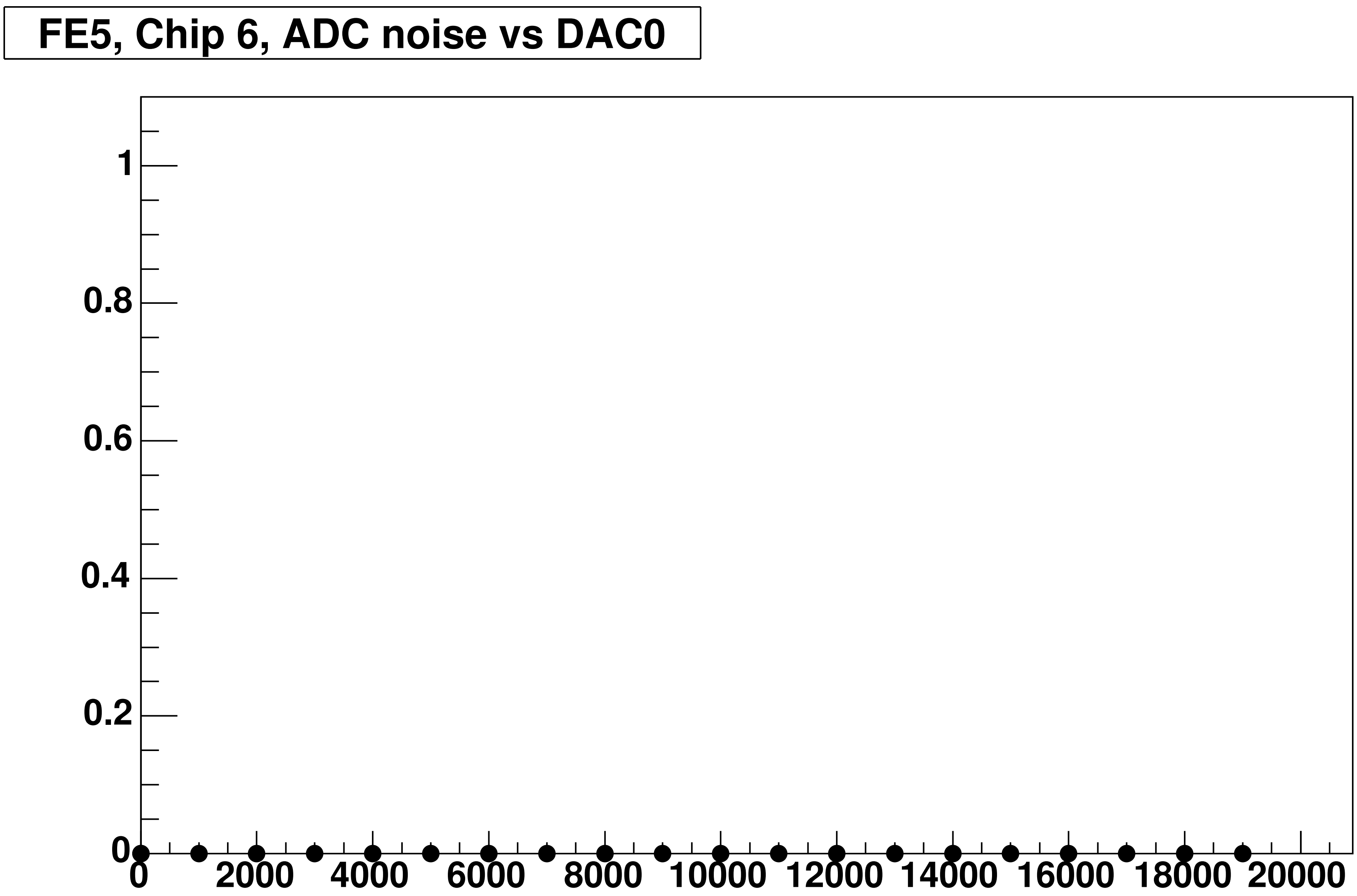
14000
16000
18000
20000



FE5, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 6, ADC noise vs DAC0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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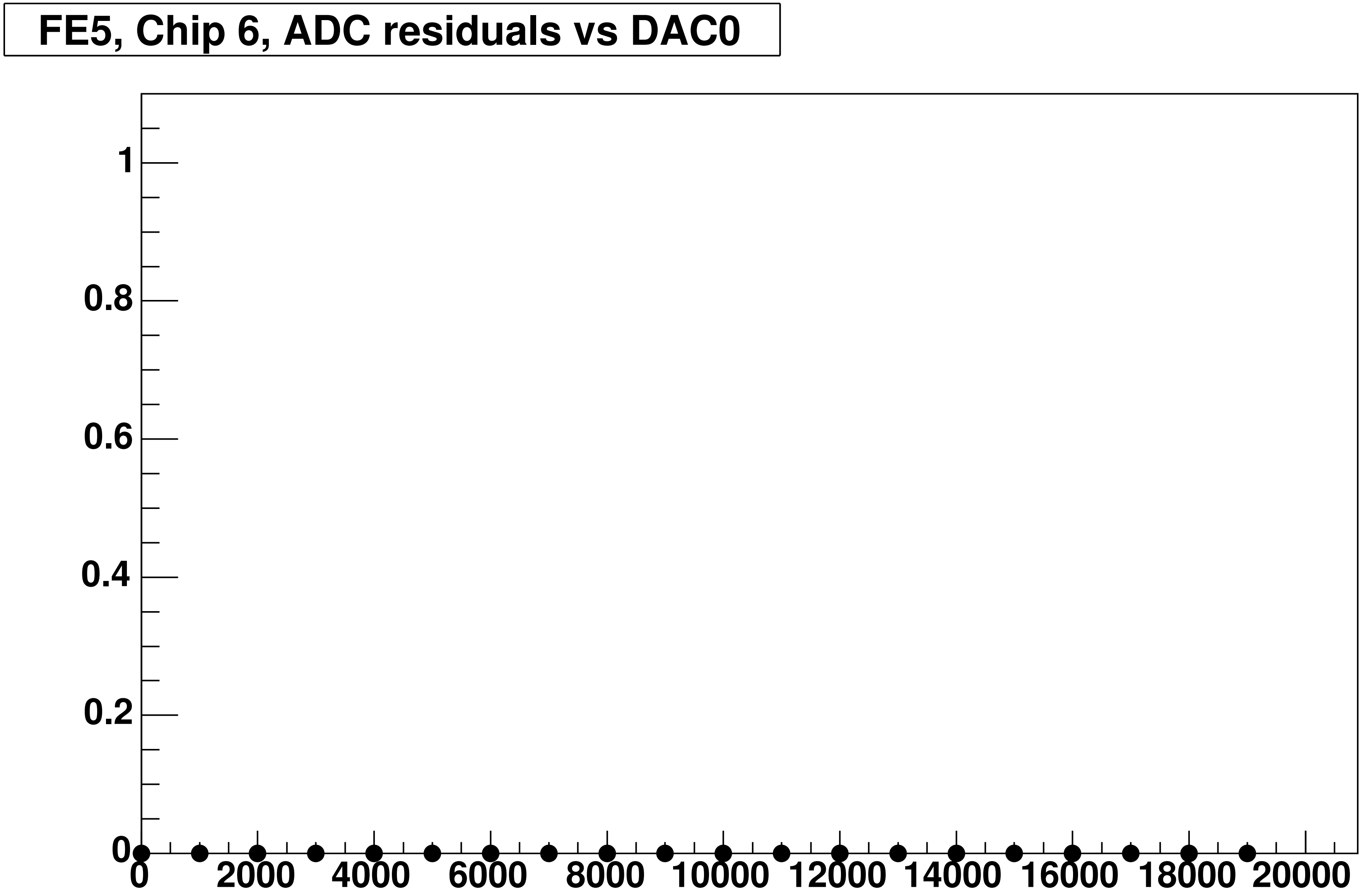
14000
16000
18000
20000


FE5, Chip 6, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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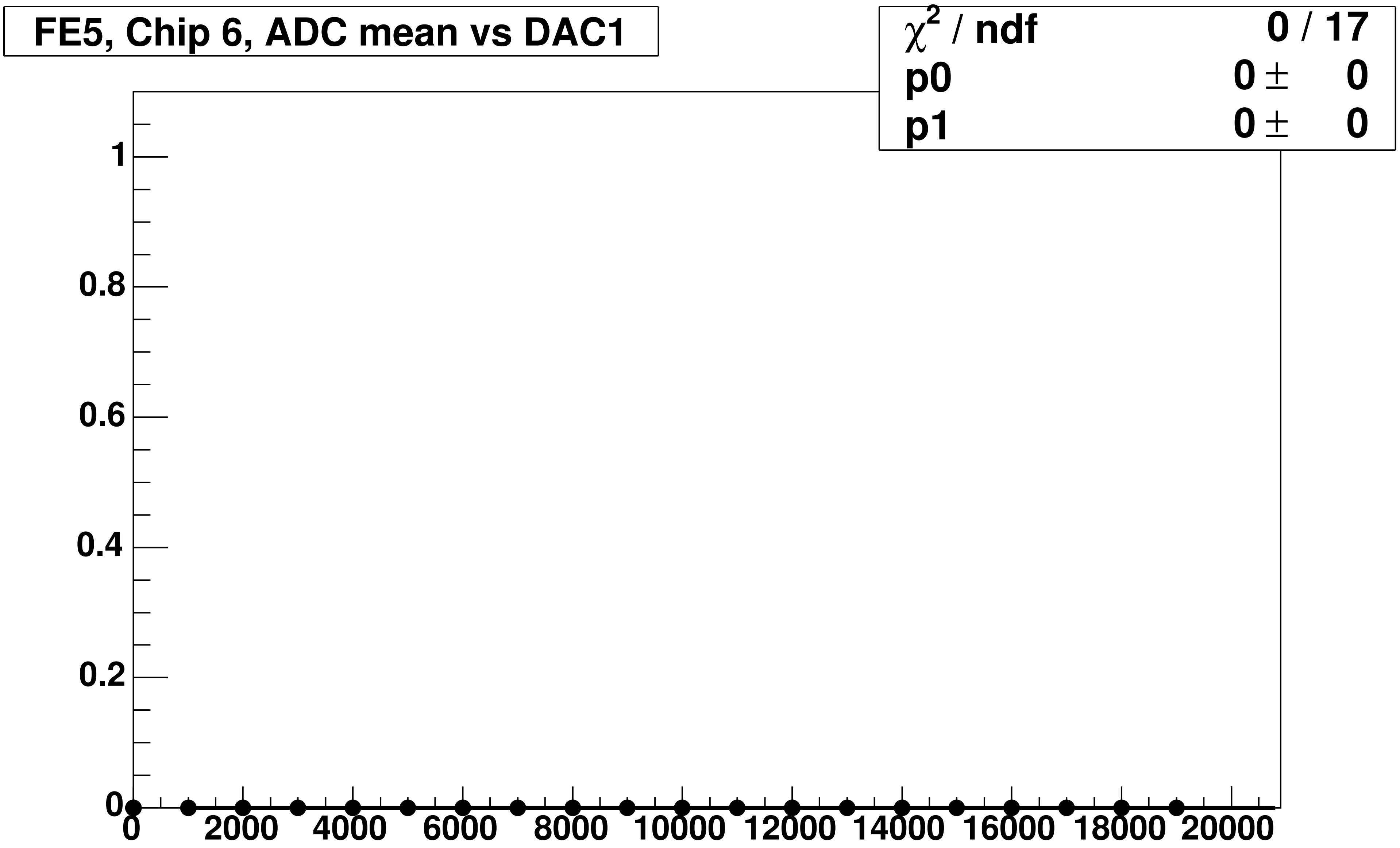
14000
16000
18000
20000


FE5, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
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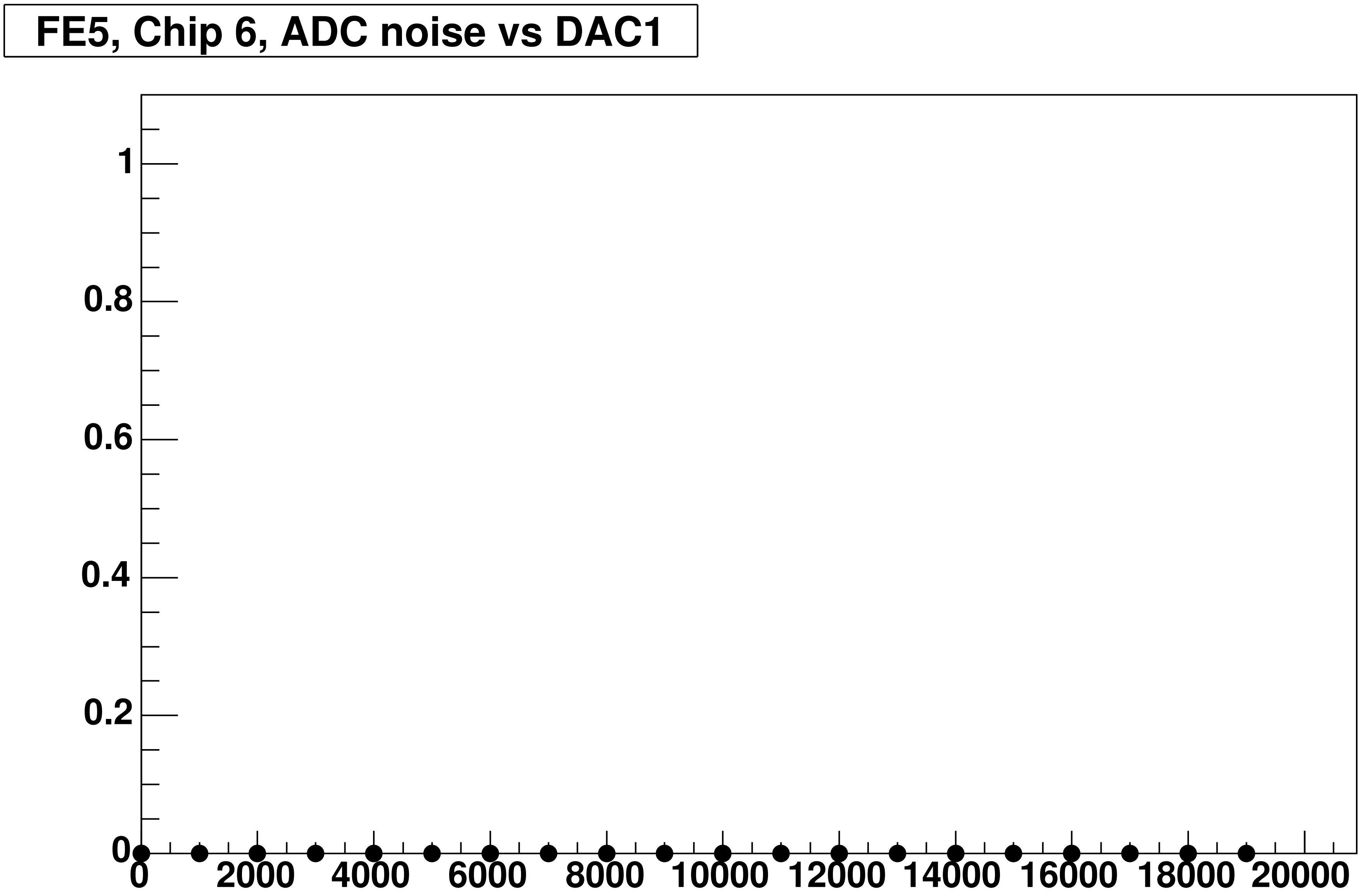
FE5, Chip 6, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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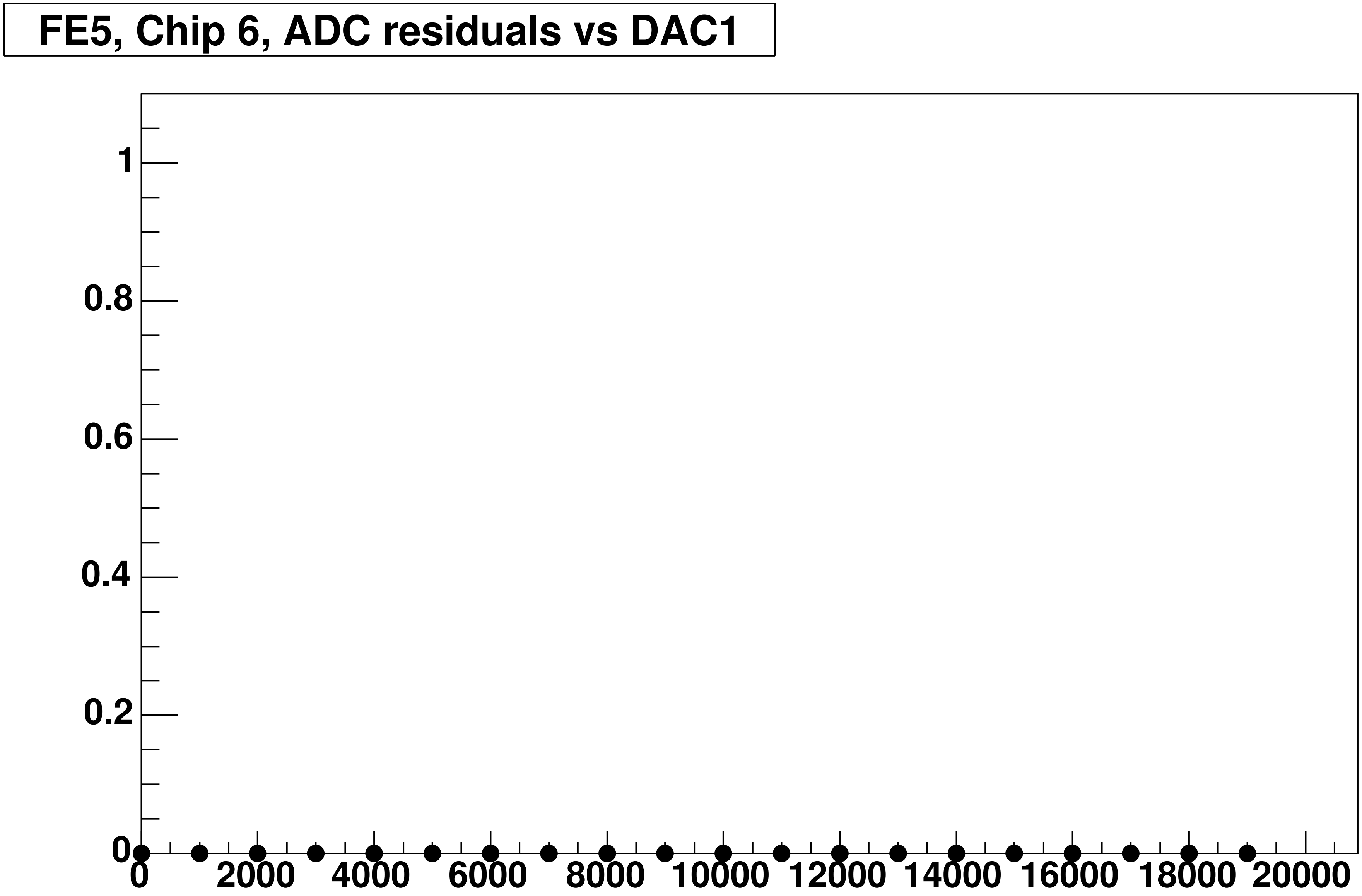
14000
16000
18000
20000


FE5, Chip 6, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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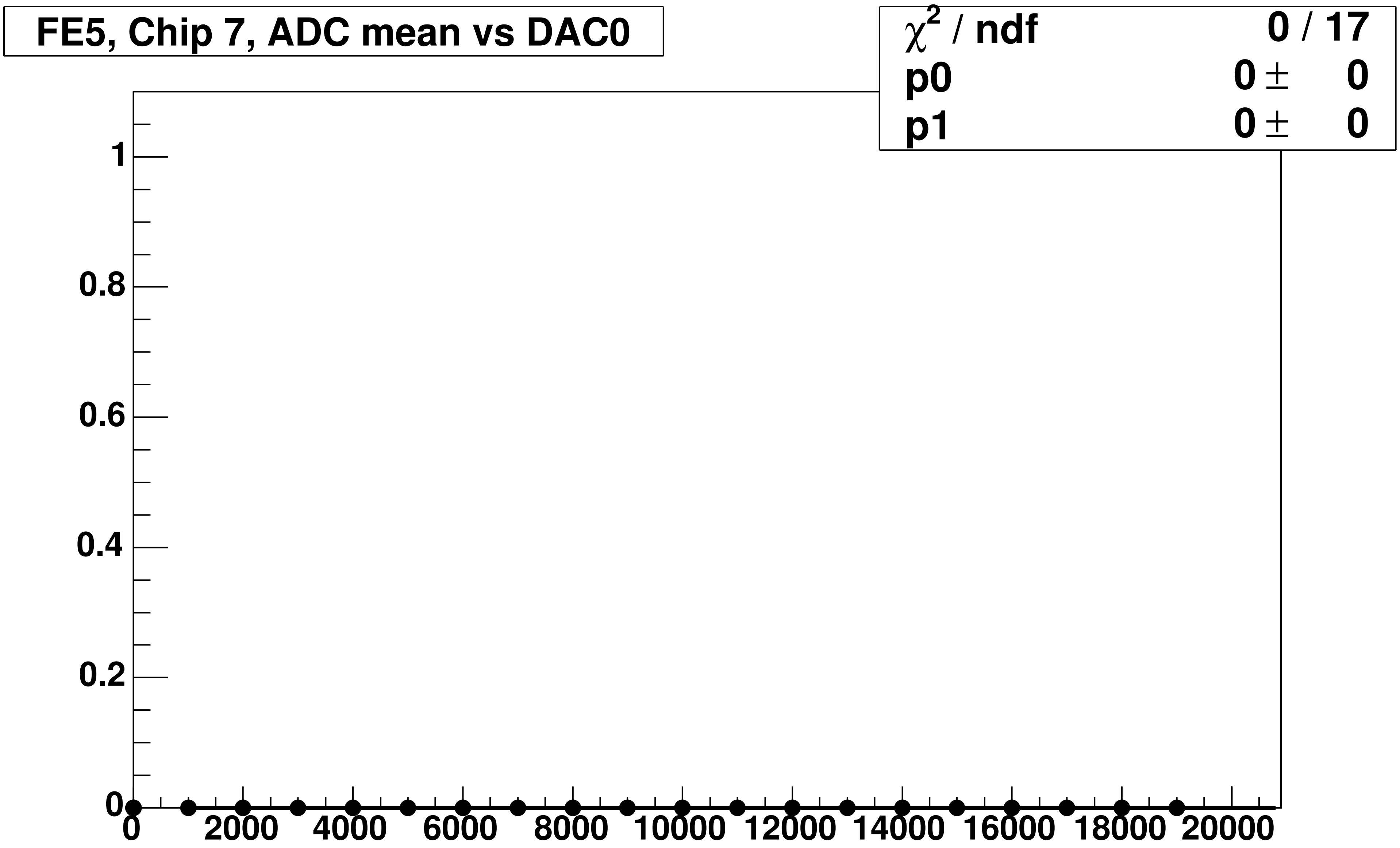
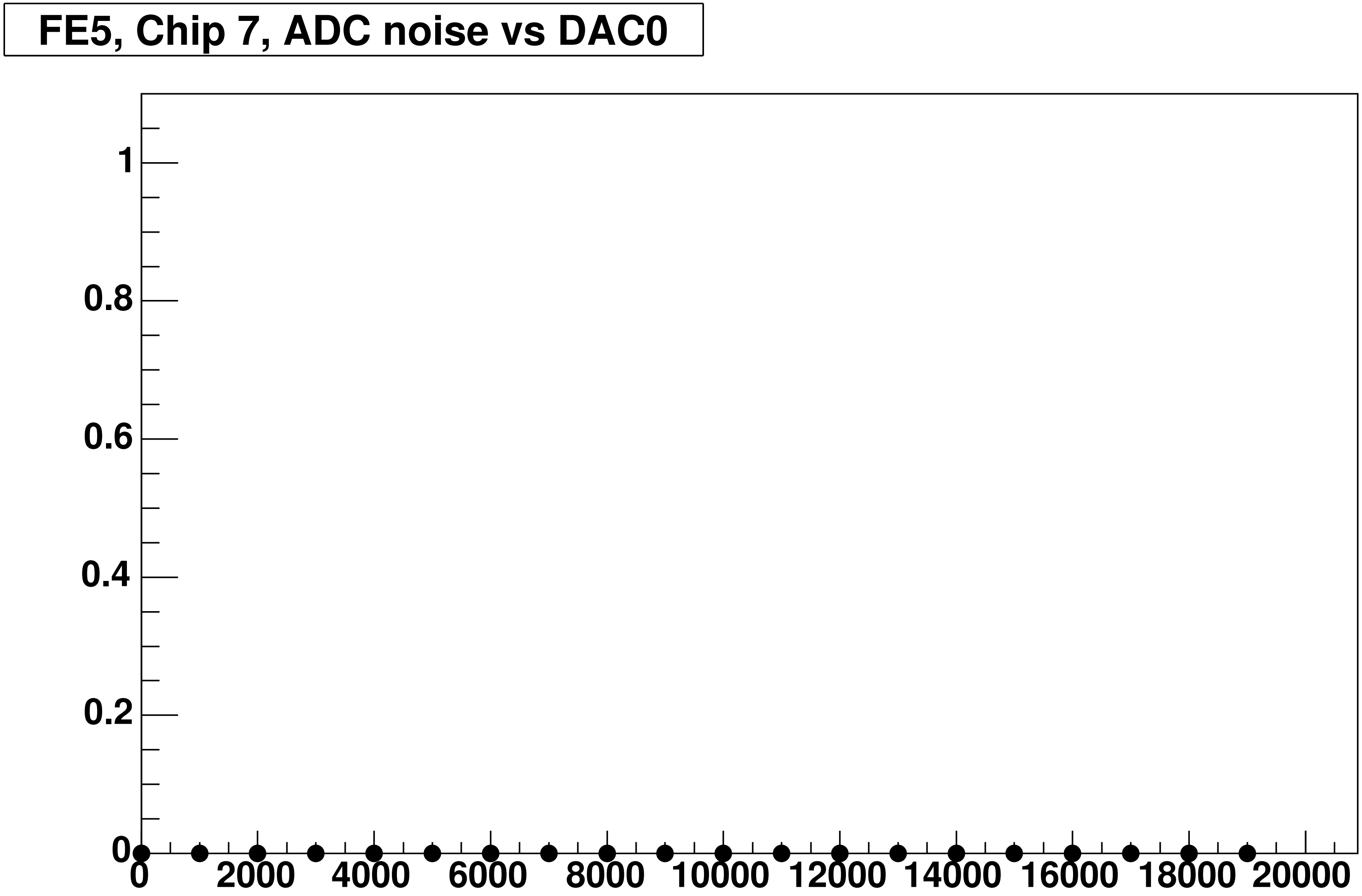
14000
16000
18000
20000


FE5, Chip 7, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 7, ADC noise vs DAC0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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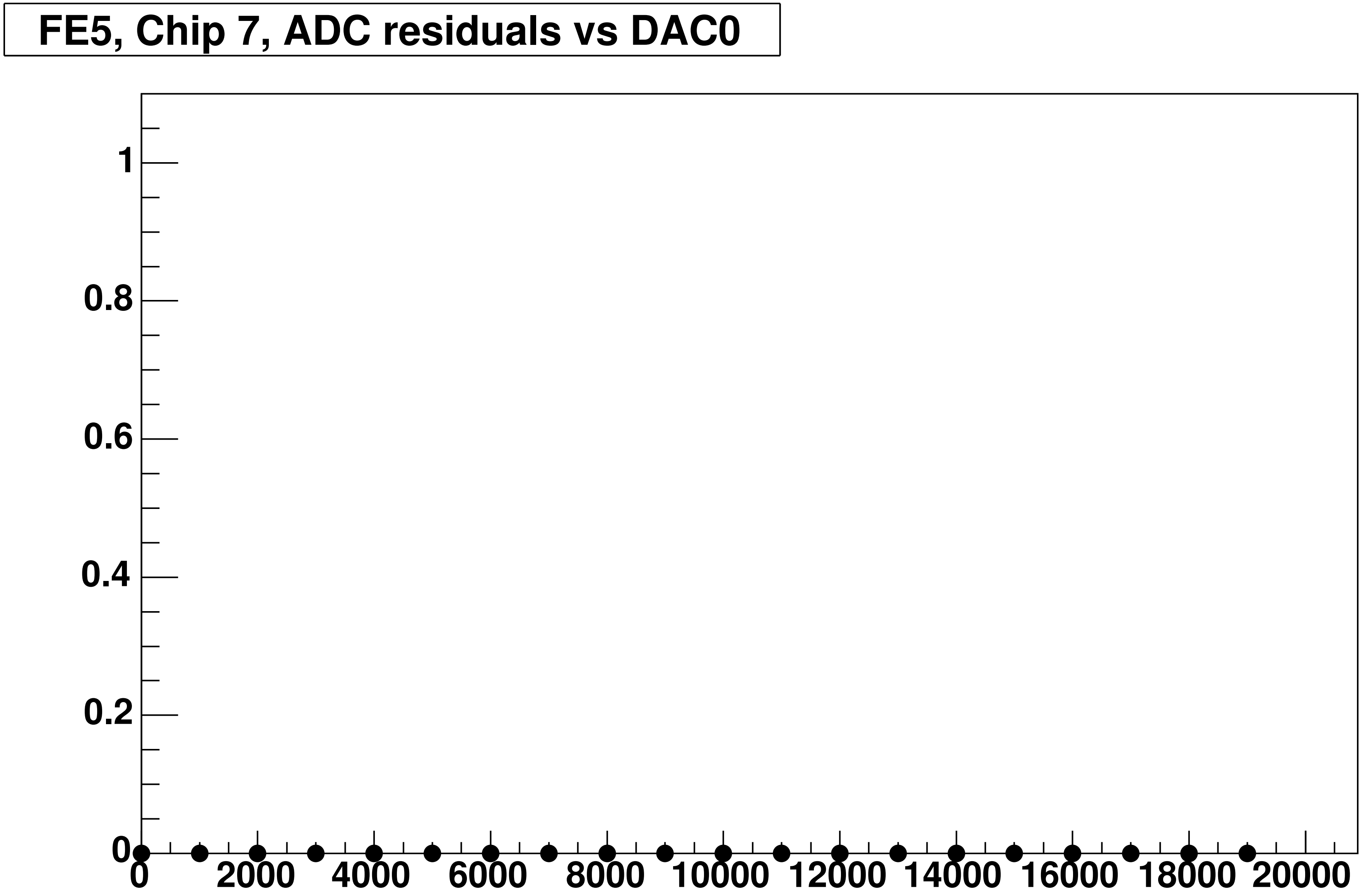
14000
16000
18000
20000


FE5, Chip 7, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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14000
16000
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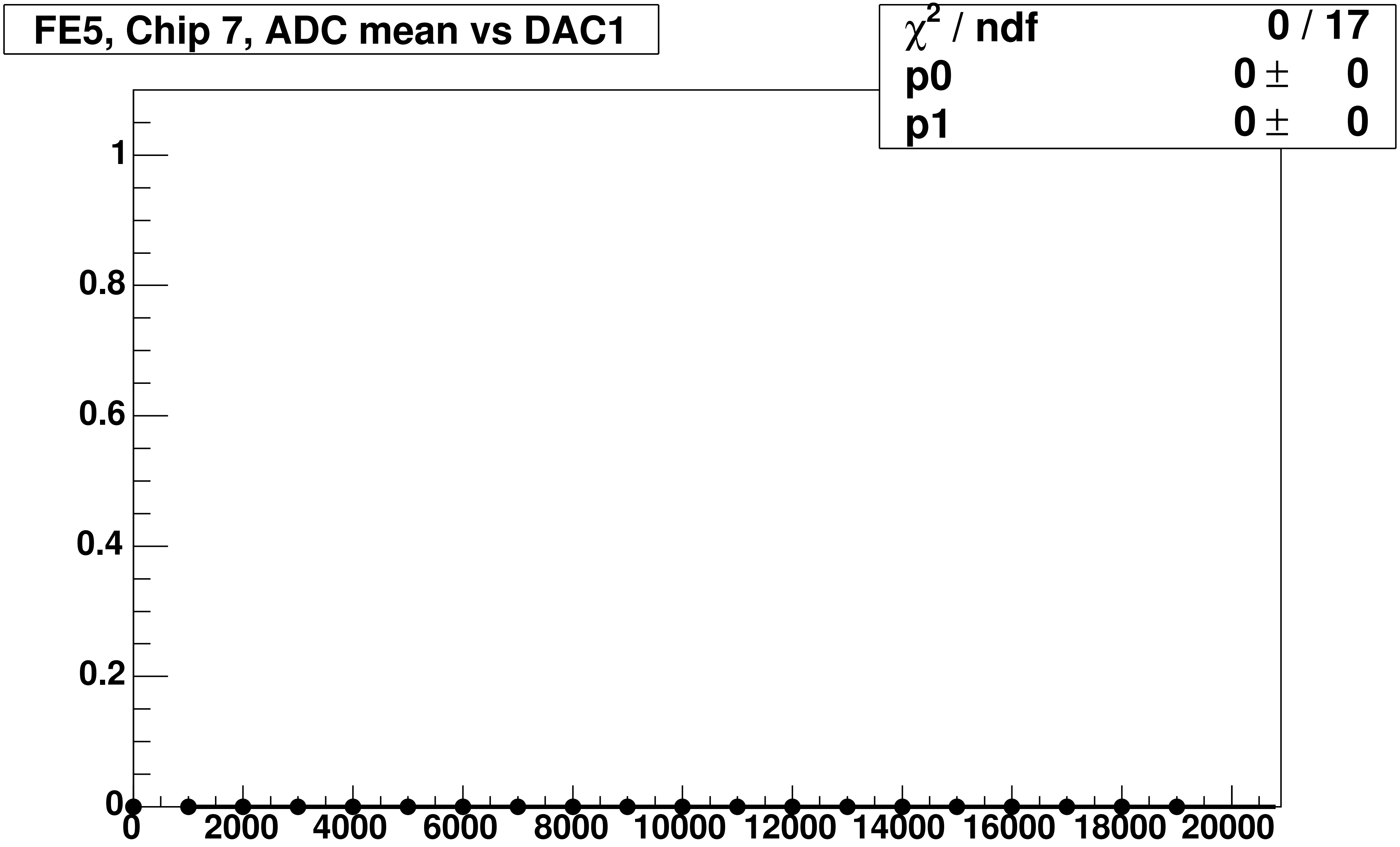
FE5, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
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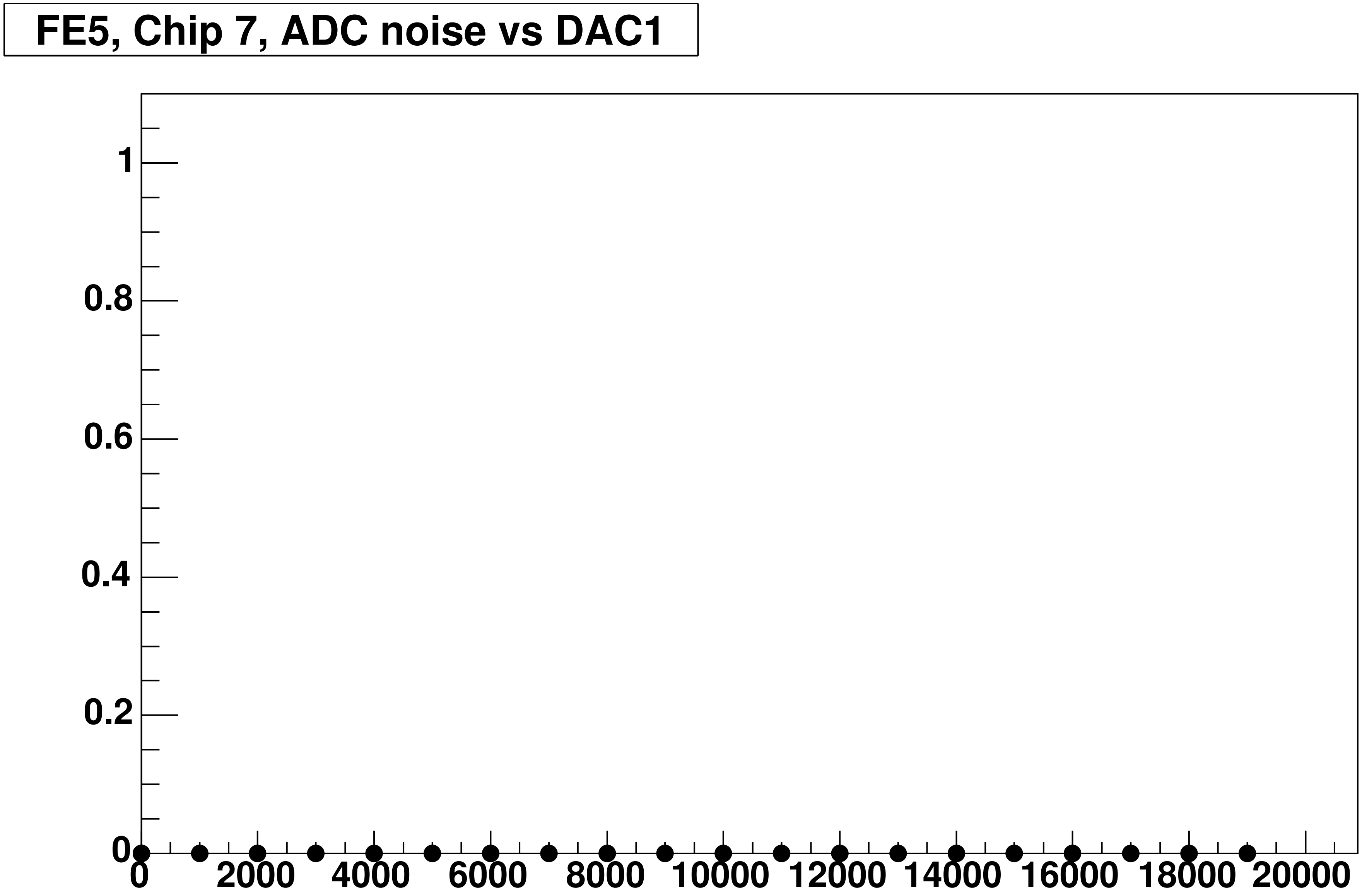
18000
20000


FE5, Chip 7, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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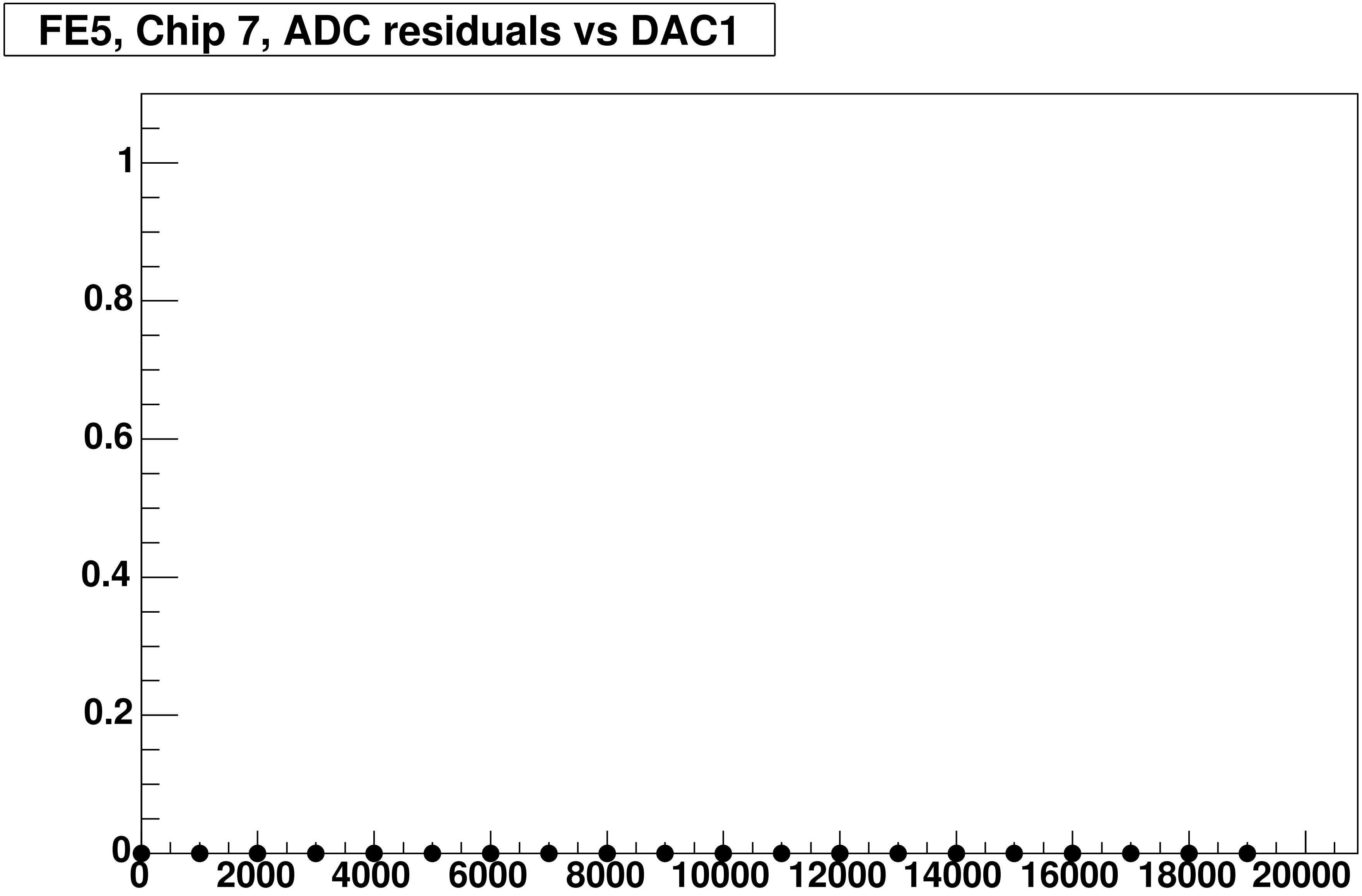
14000
16000
18000
20000


FE5, Chip 7, ADC residuals vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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14000
16000
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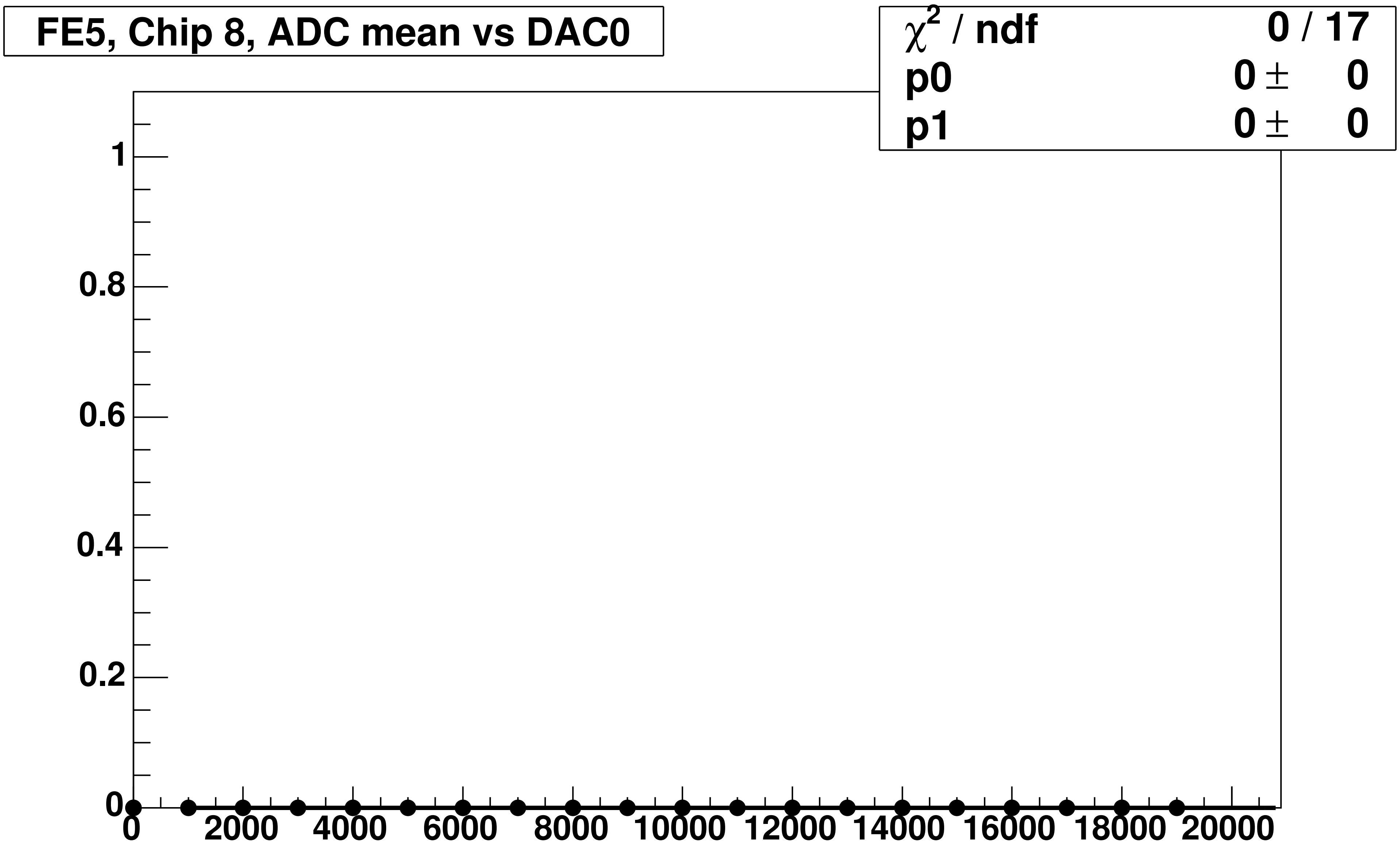
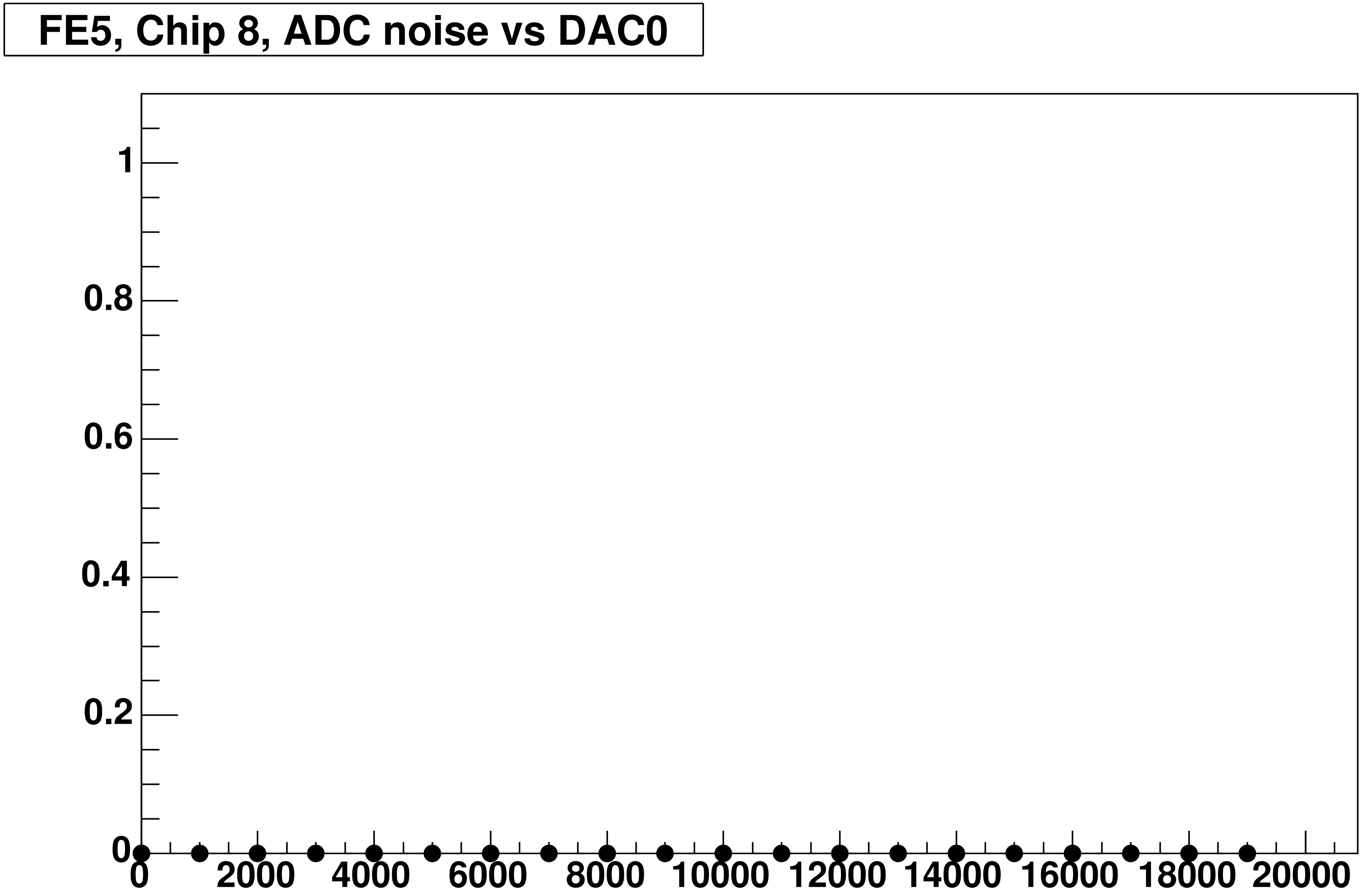
20000



FE5, Chip 8, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 8, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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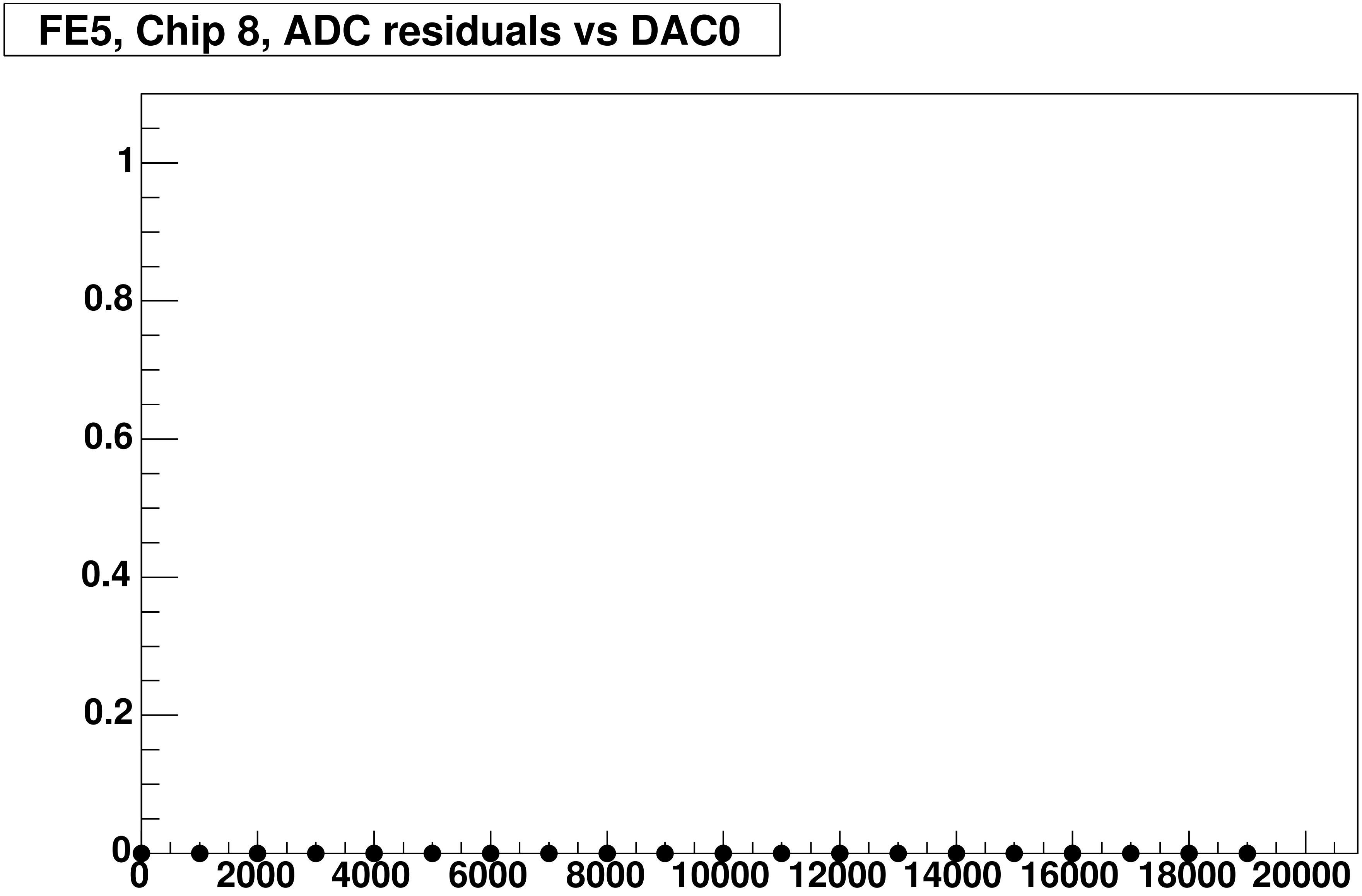
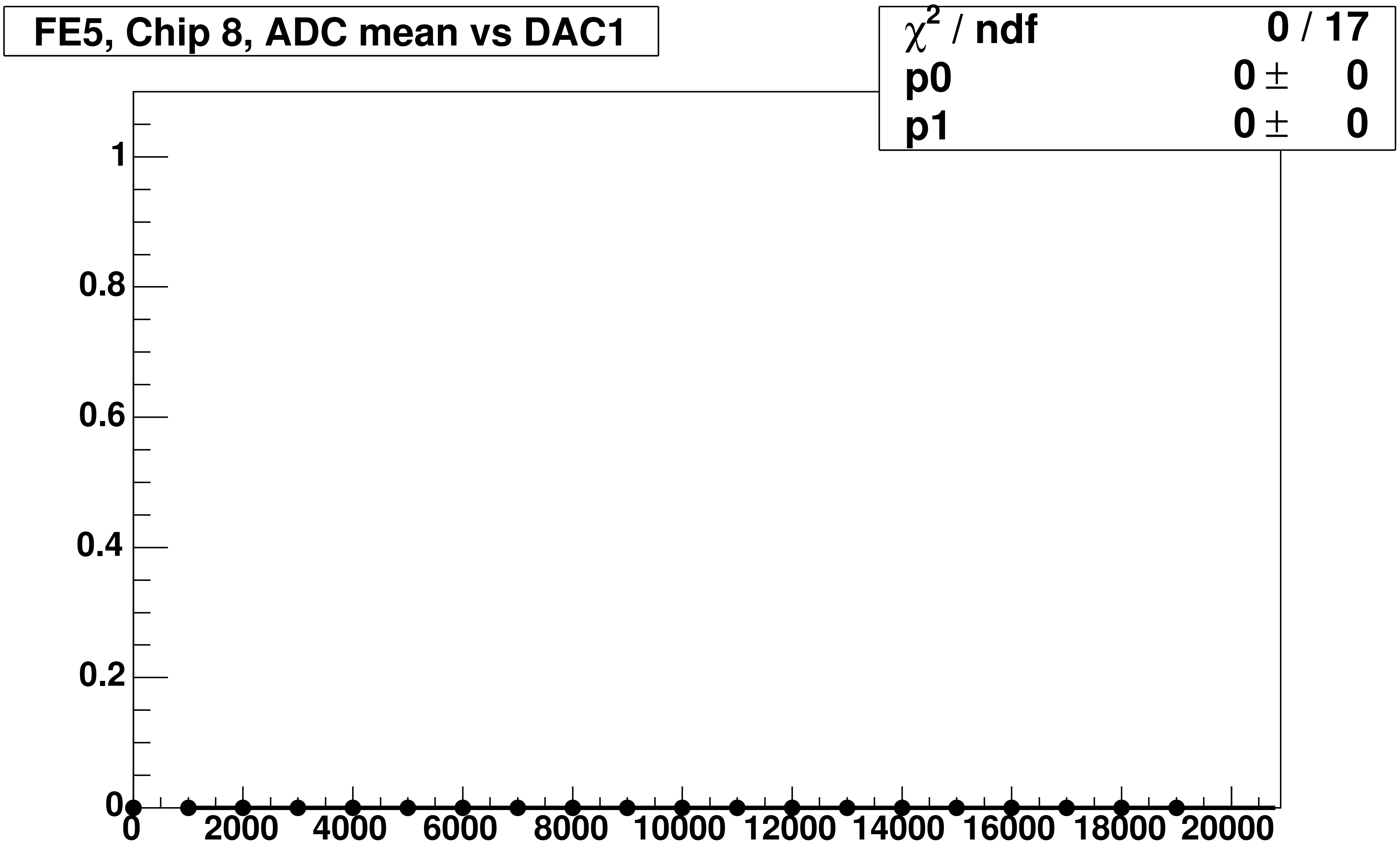
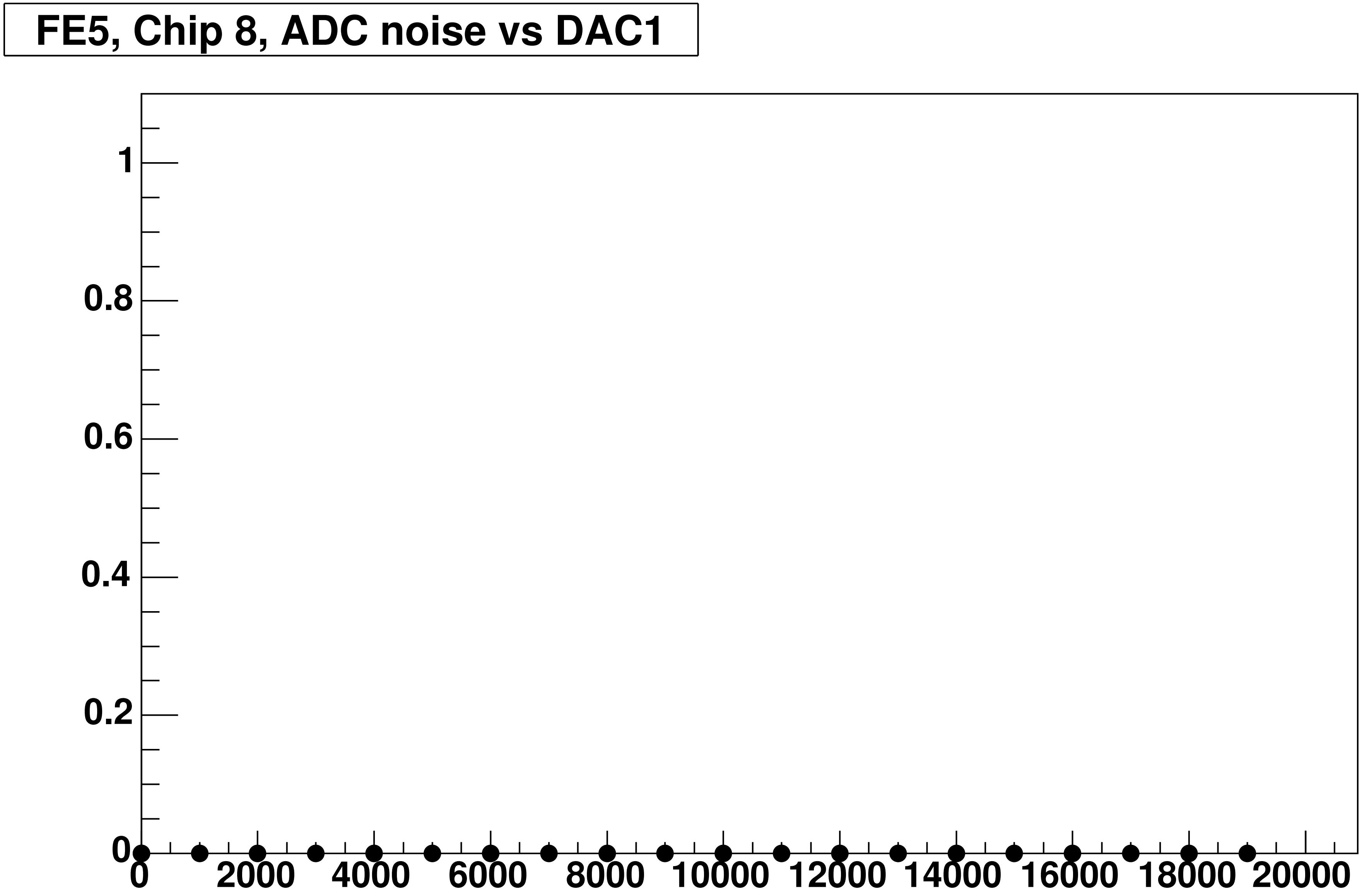
14000
16000
18000
20000


FE5, Chip 8, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 8, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
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6000
8000
10000
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14000
16000
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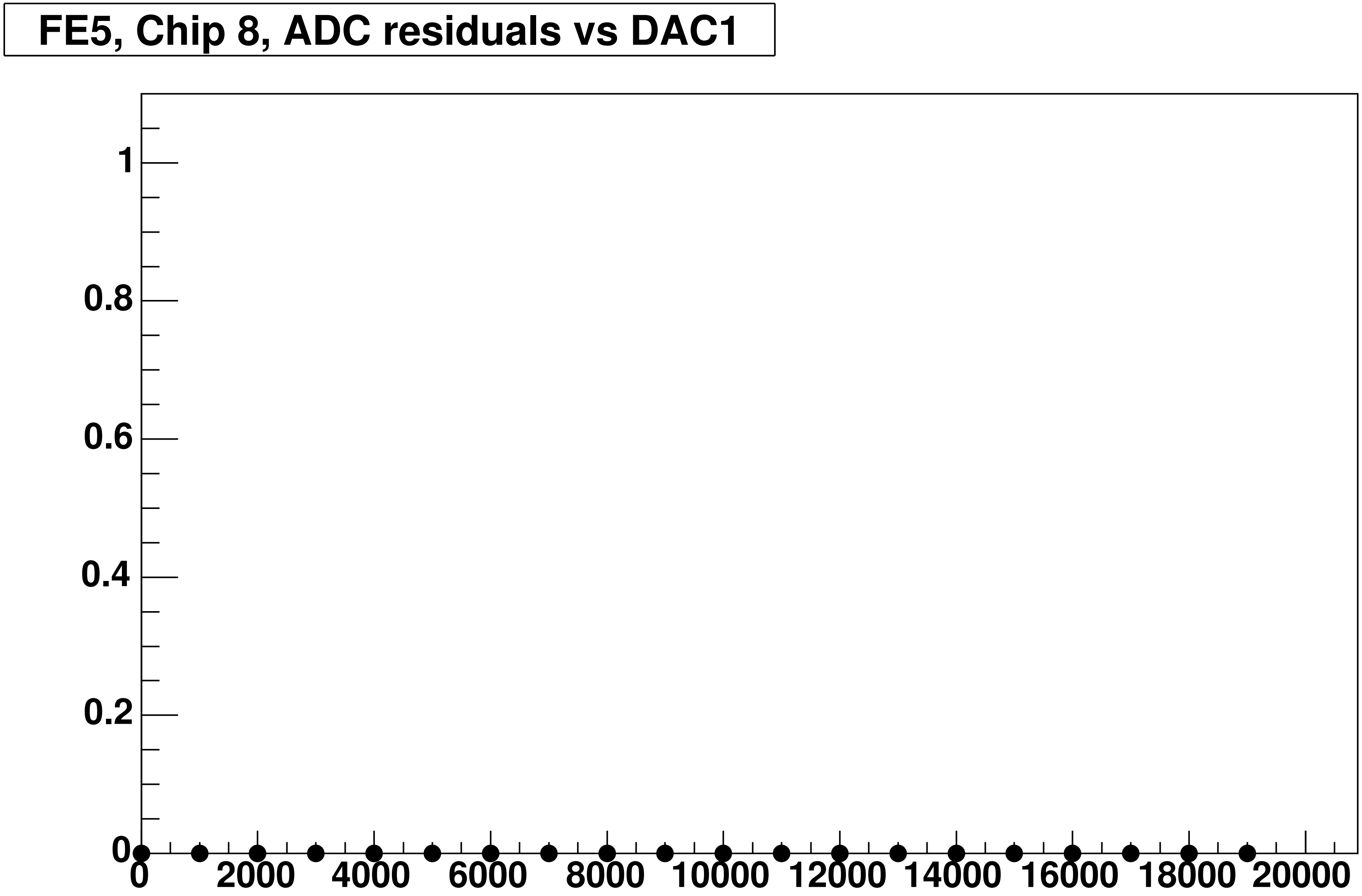
FE5, Chip 8, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
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4000
6000
8000
10000
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14000
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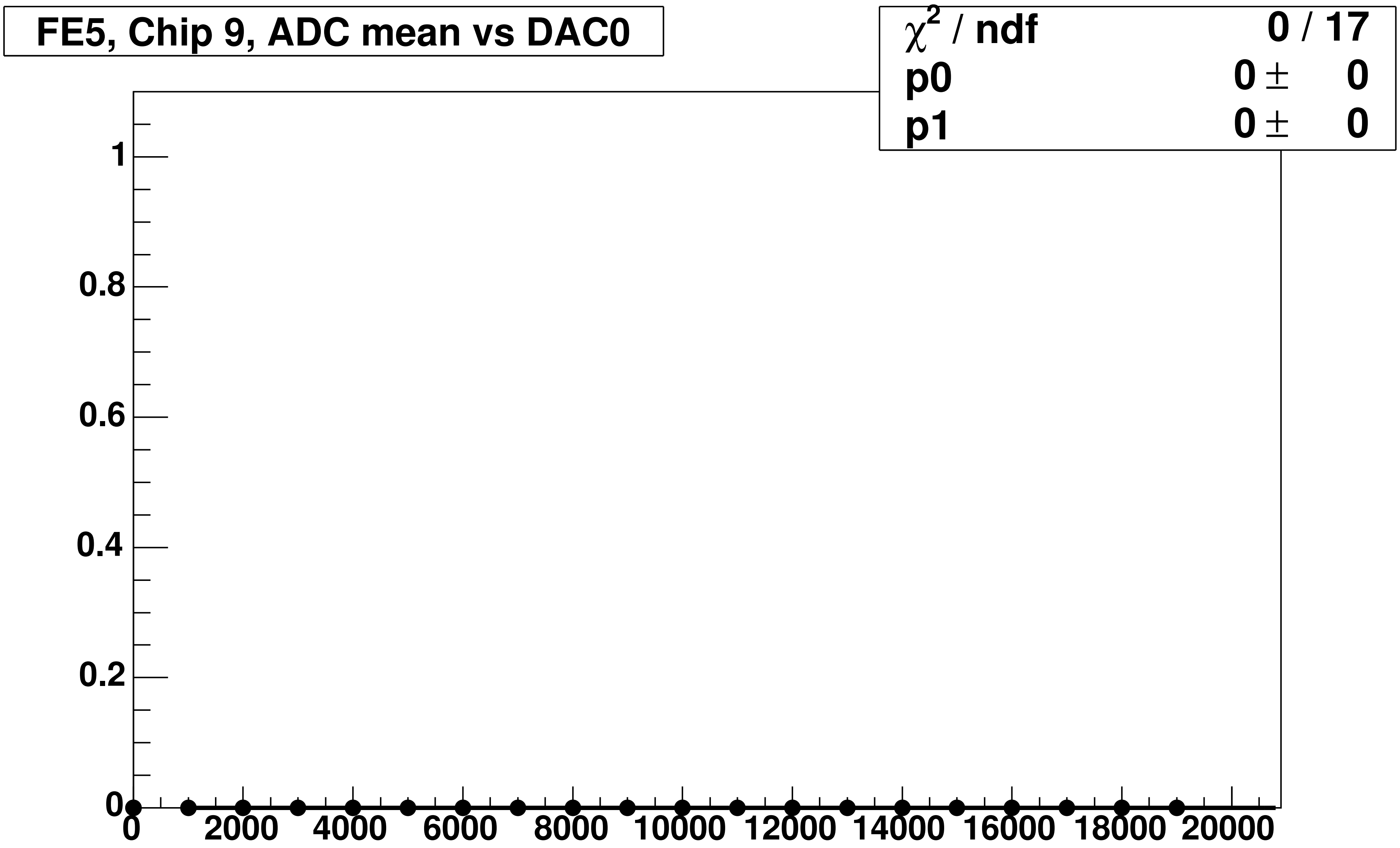
20000


FE5, Chip 9, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
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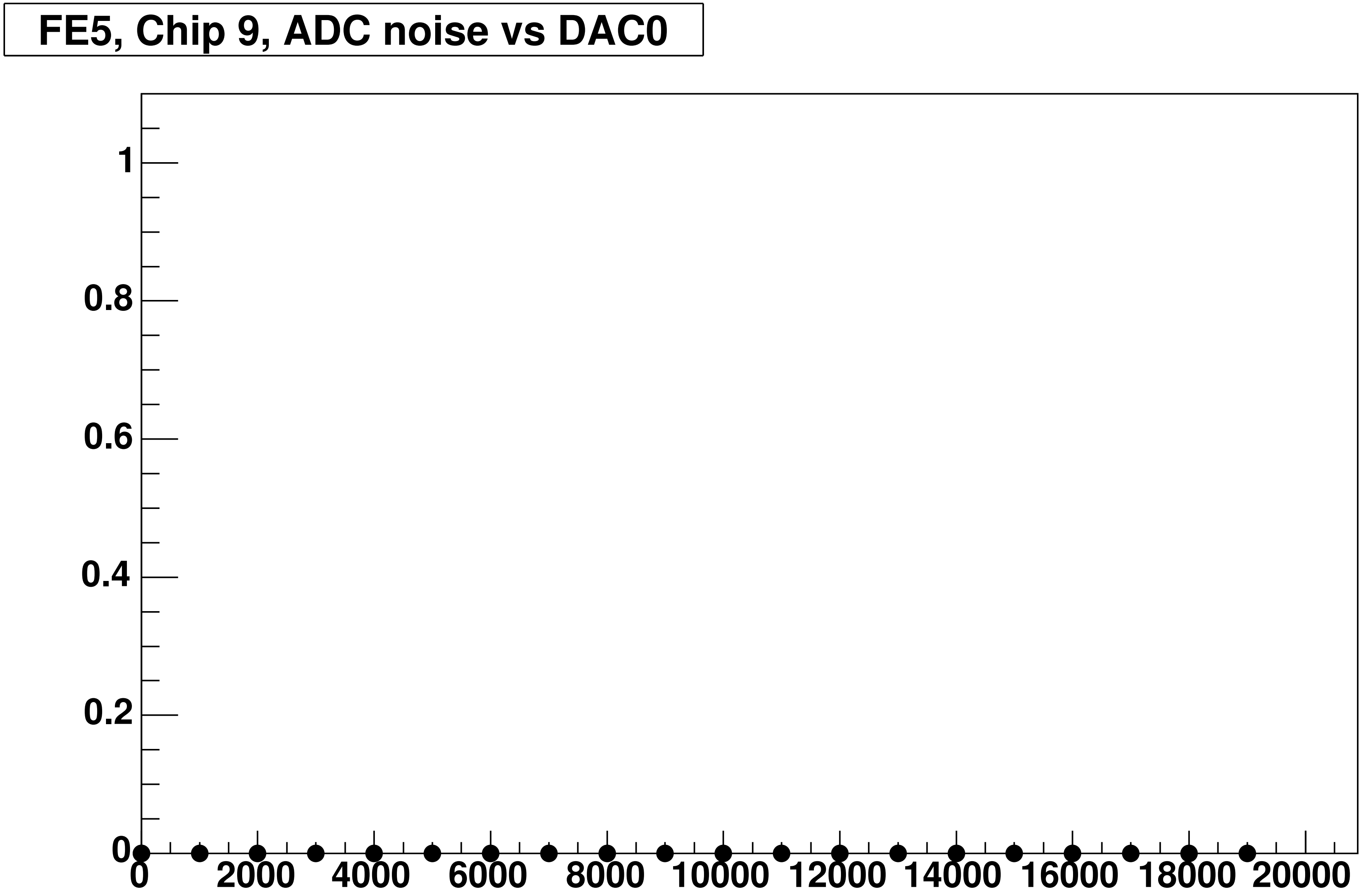
FE5, Chip 9, ADC noise vs DAC0
0
0.2
0.4
0.6
0.8
1
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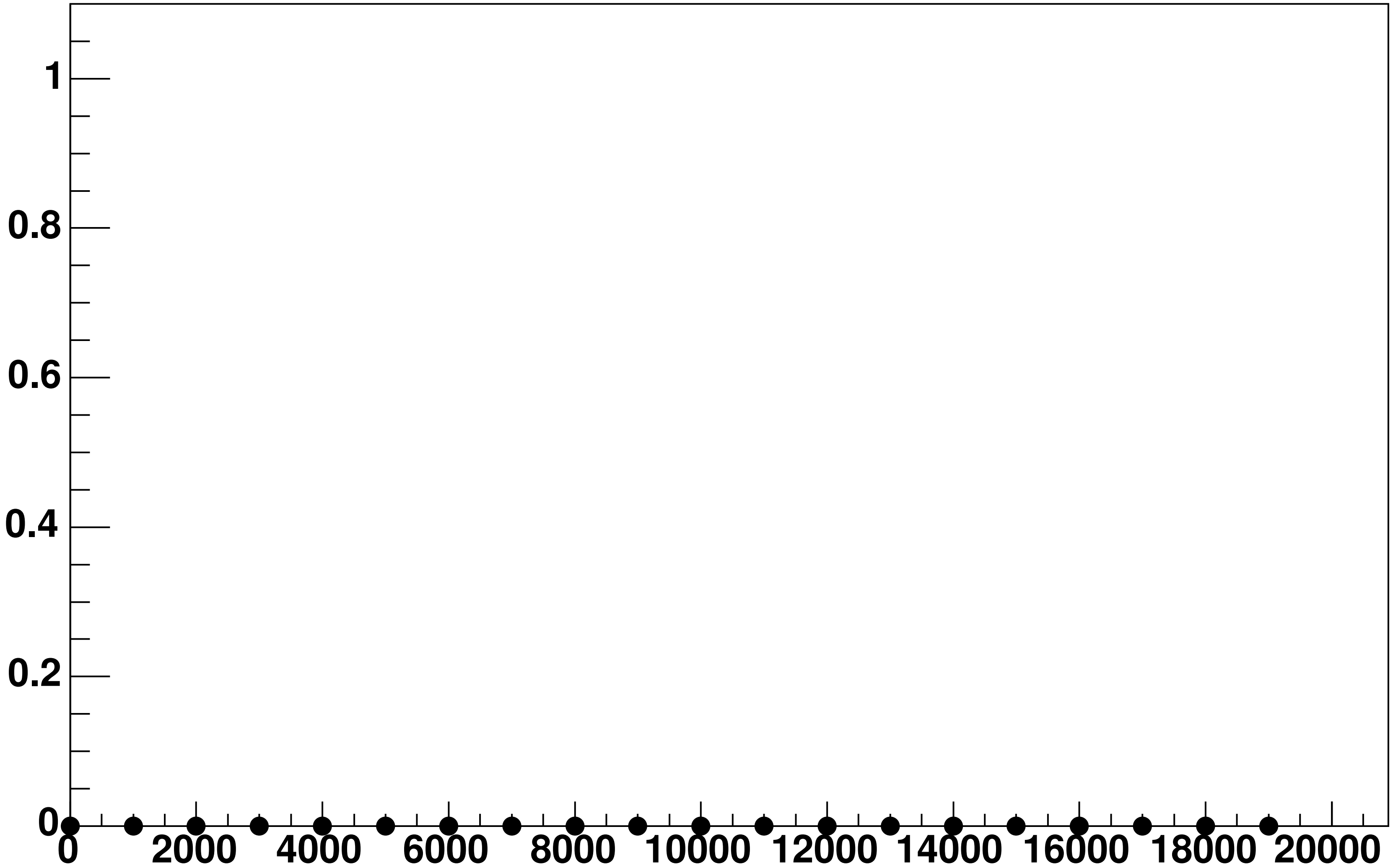
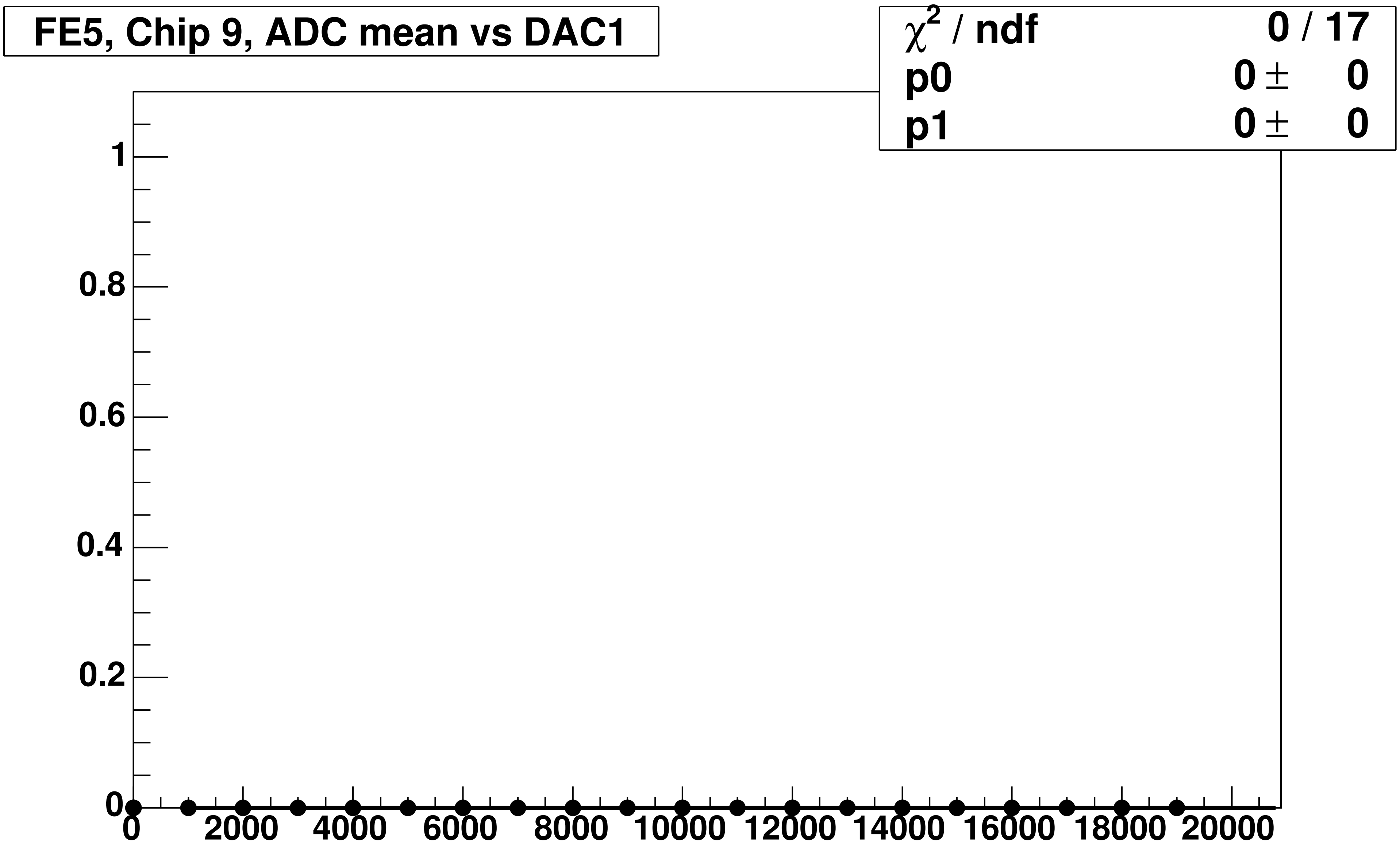
6000
8000
10000
12000
14000
16000
18000
20000

FE5, Chip 9, ADC residuals vs DAC0




FE5, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
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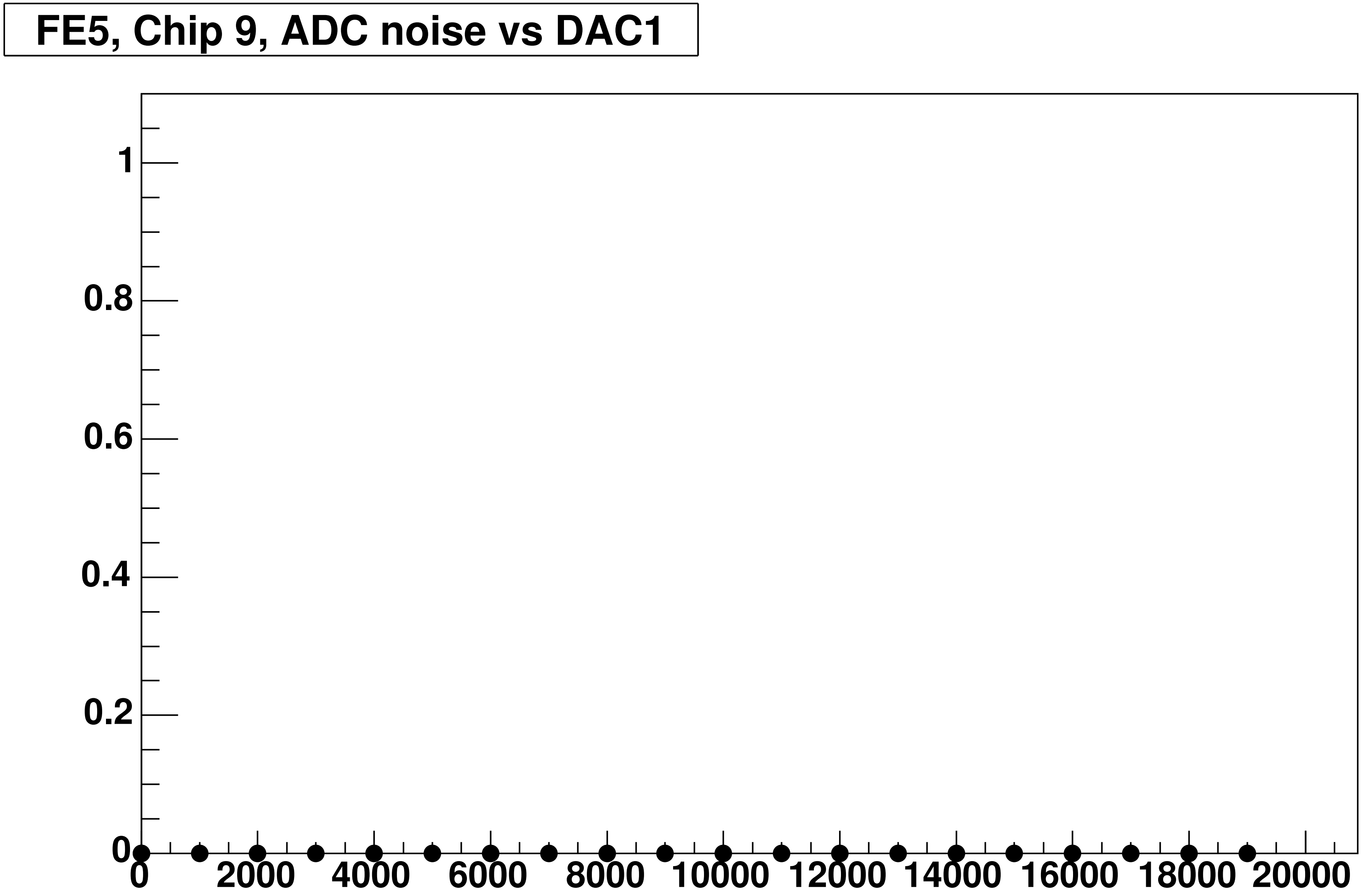
FE5, Chip 9, ADC noise vs DAC1
1
0.8
0.6
0.4
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6000
8000
10000
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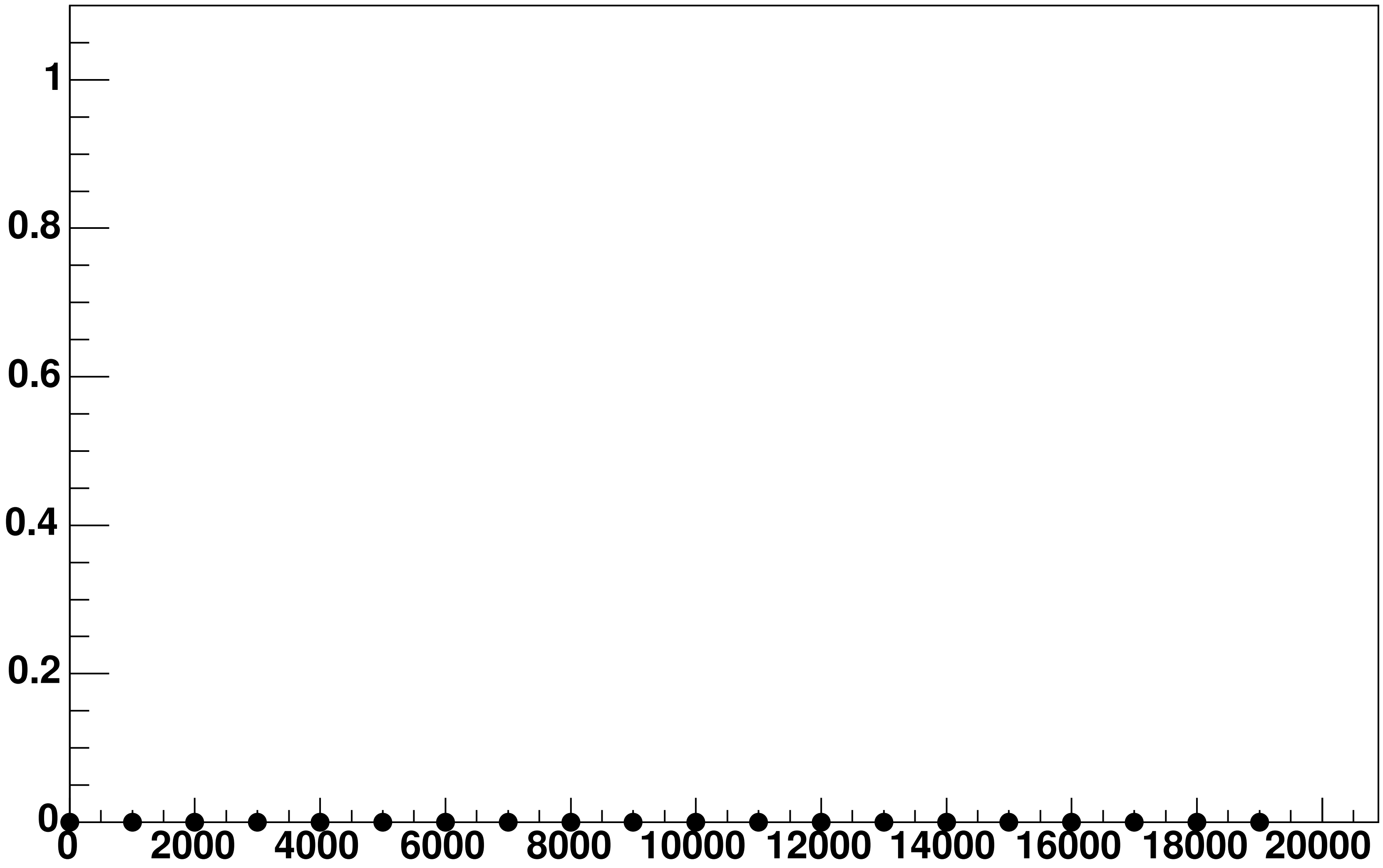
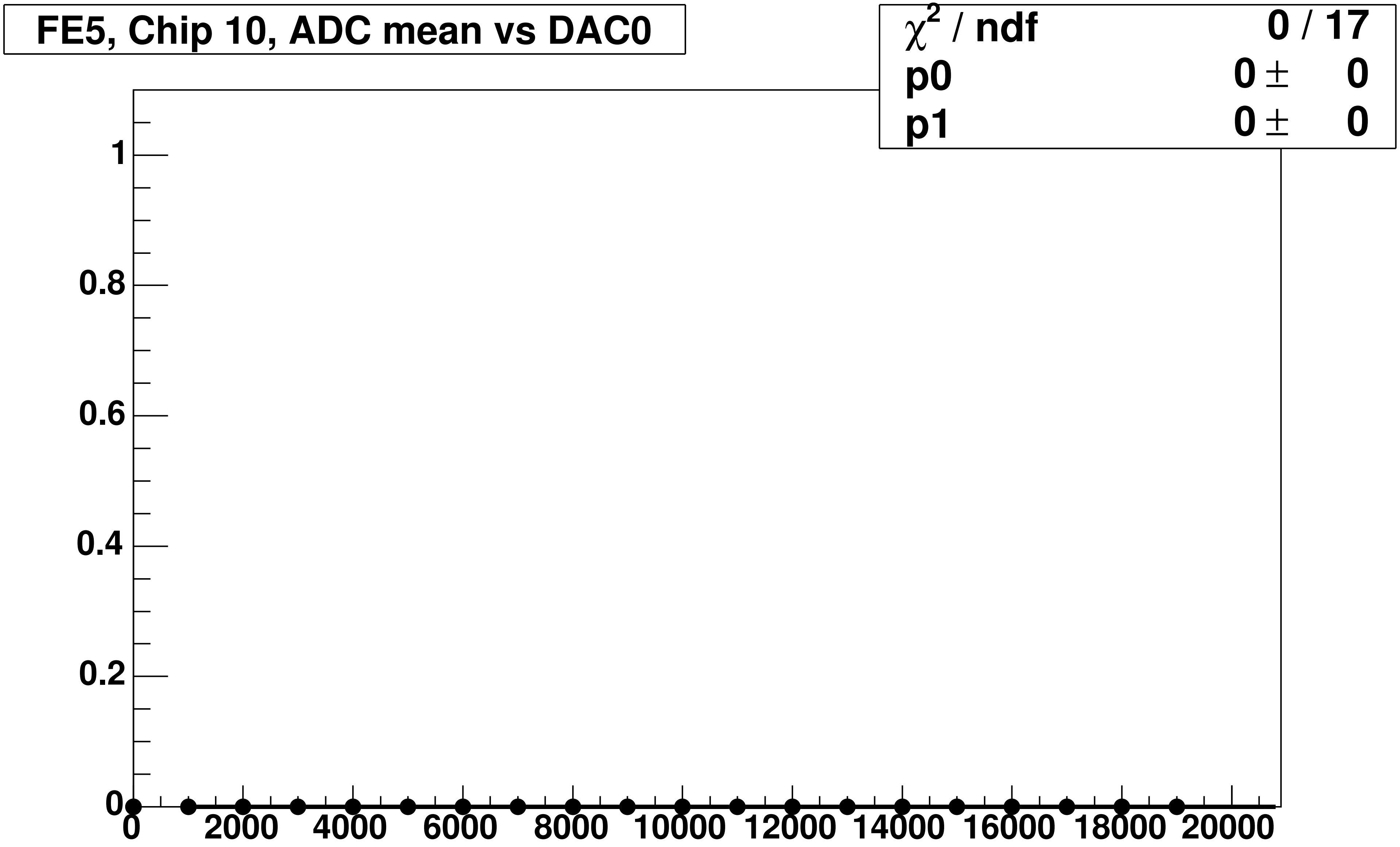
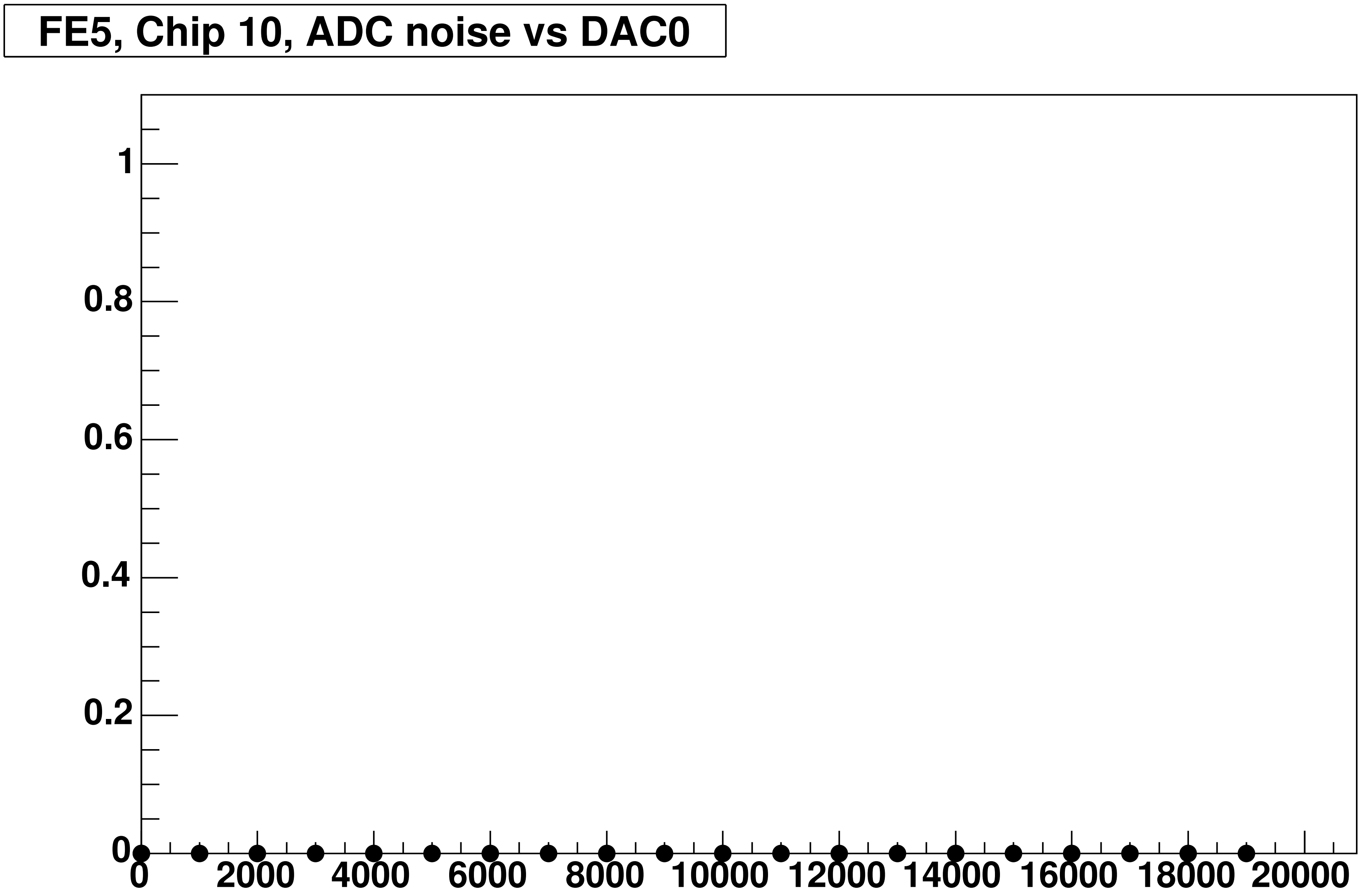
14000
16000
18000
20000

FE5, Chip 9, ADC residuals vs DAC1





FE5, Chip 10, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE5, Chip 10, ADC noise vs DAC0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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14000
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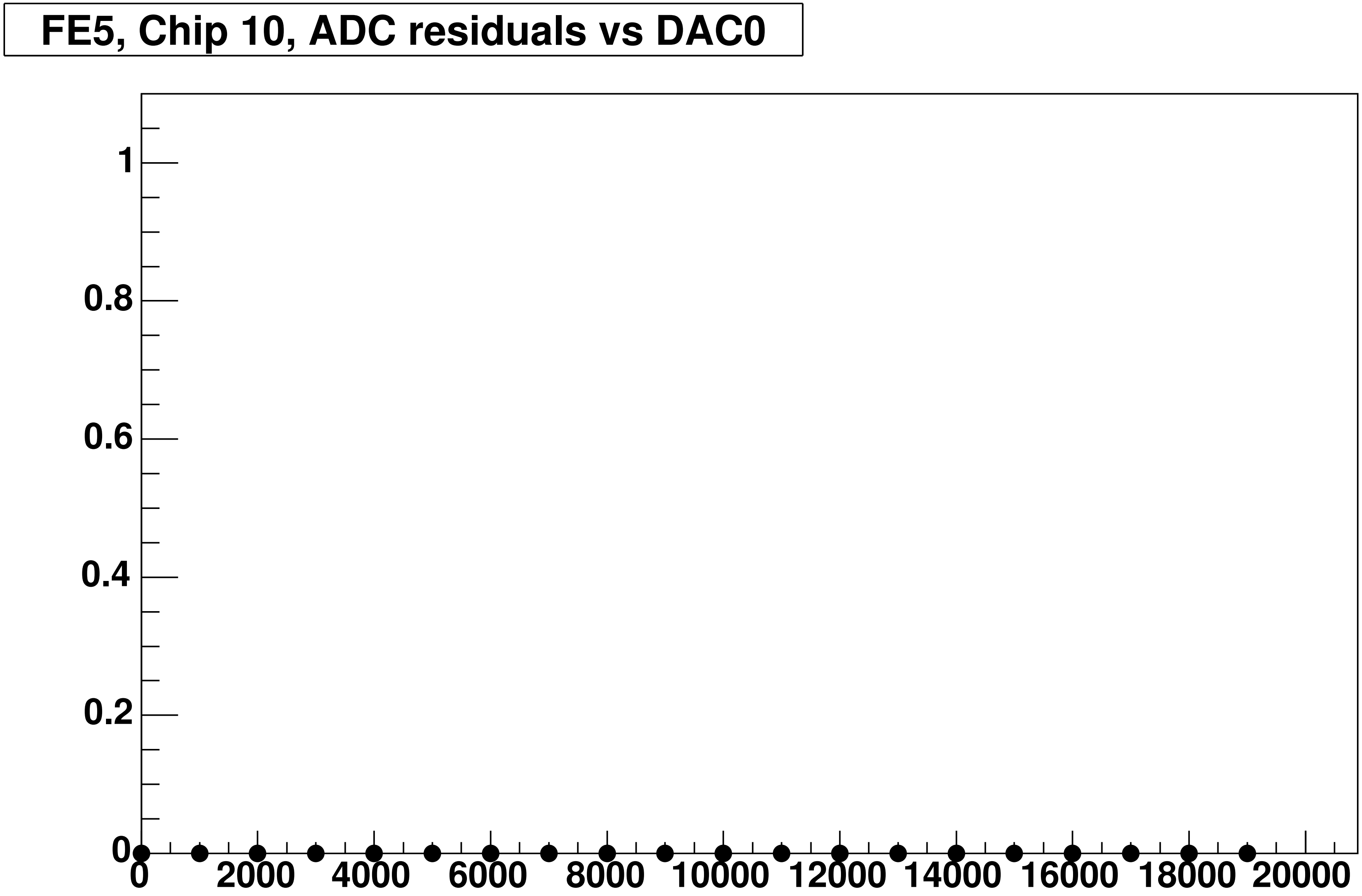
FE5, Chip 10, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
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4000
6000
8000
10000
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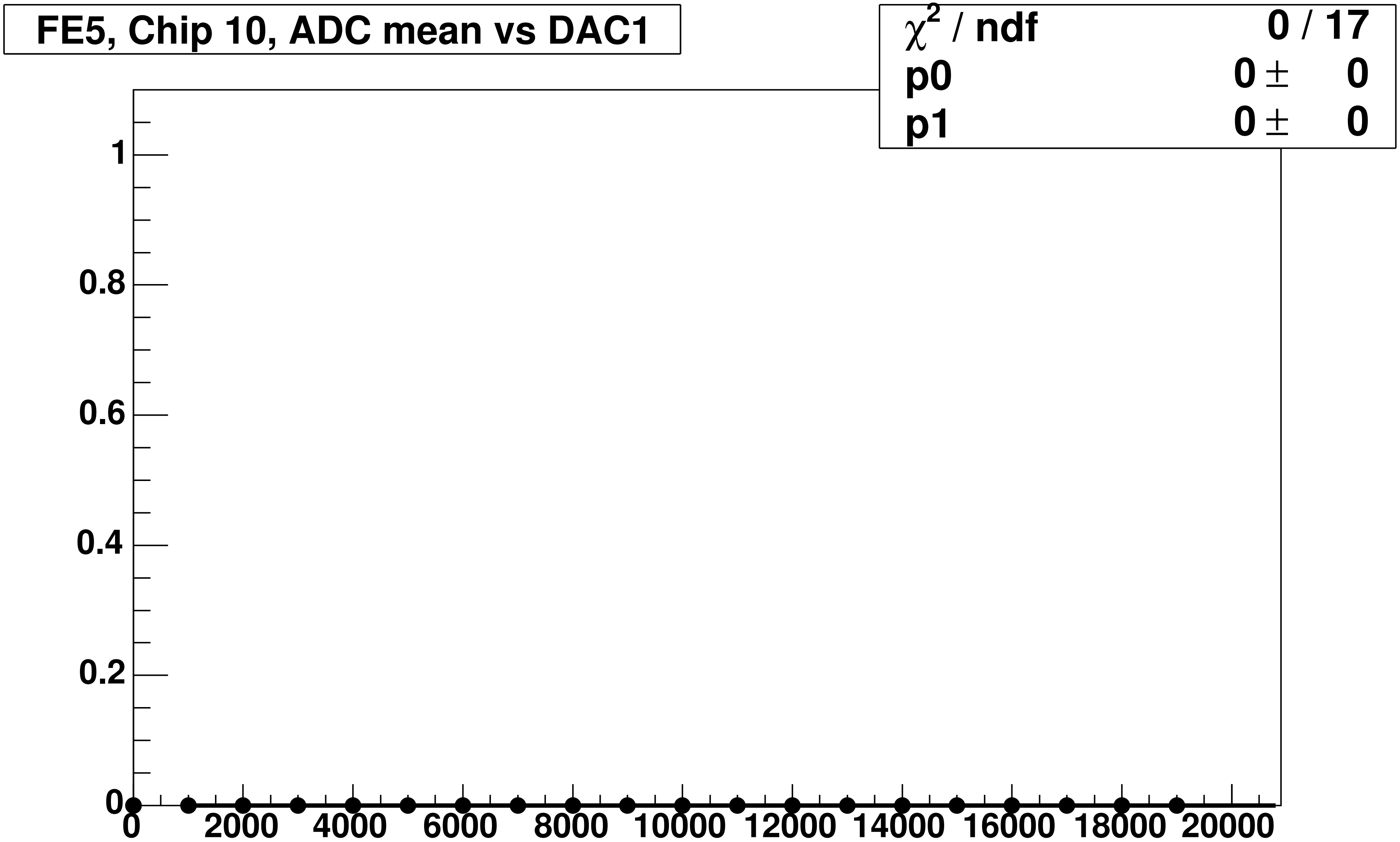
14000
16000
18000
20000


FE5, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
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14000
16000
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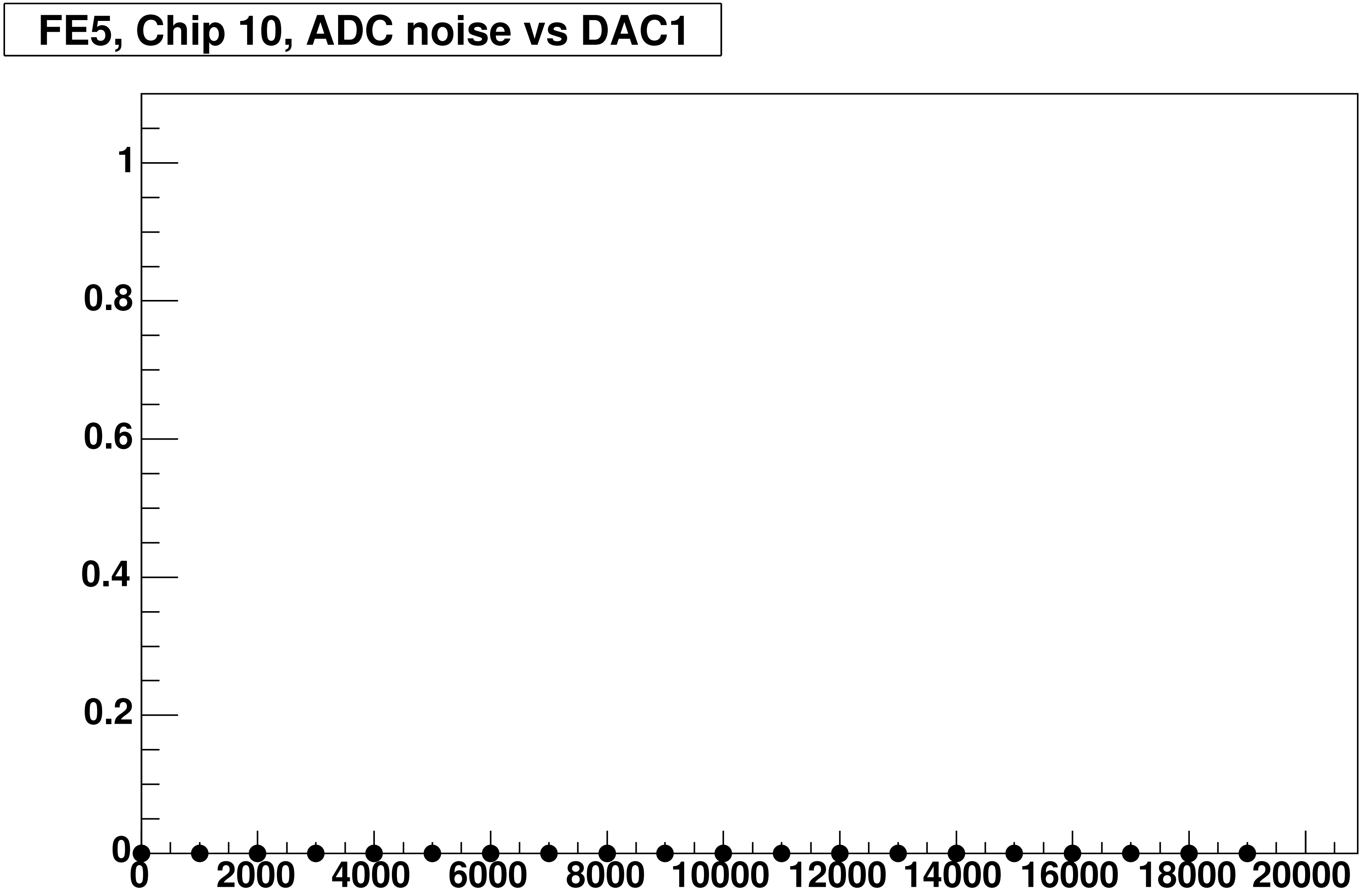
FE5, Chip 10, ADC noise vs DAC1
1
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0.4
0.2
0
0
2000
4000
6000
8000
10000
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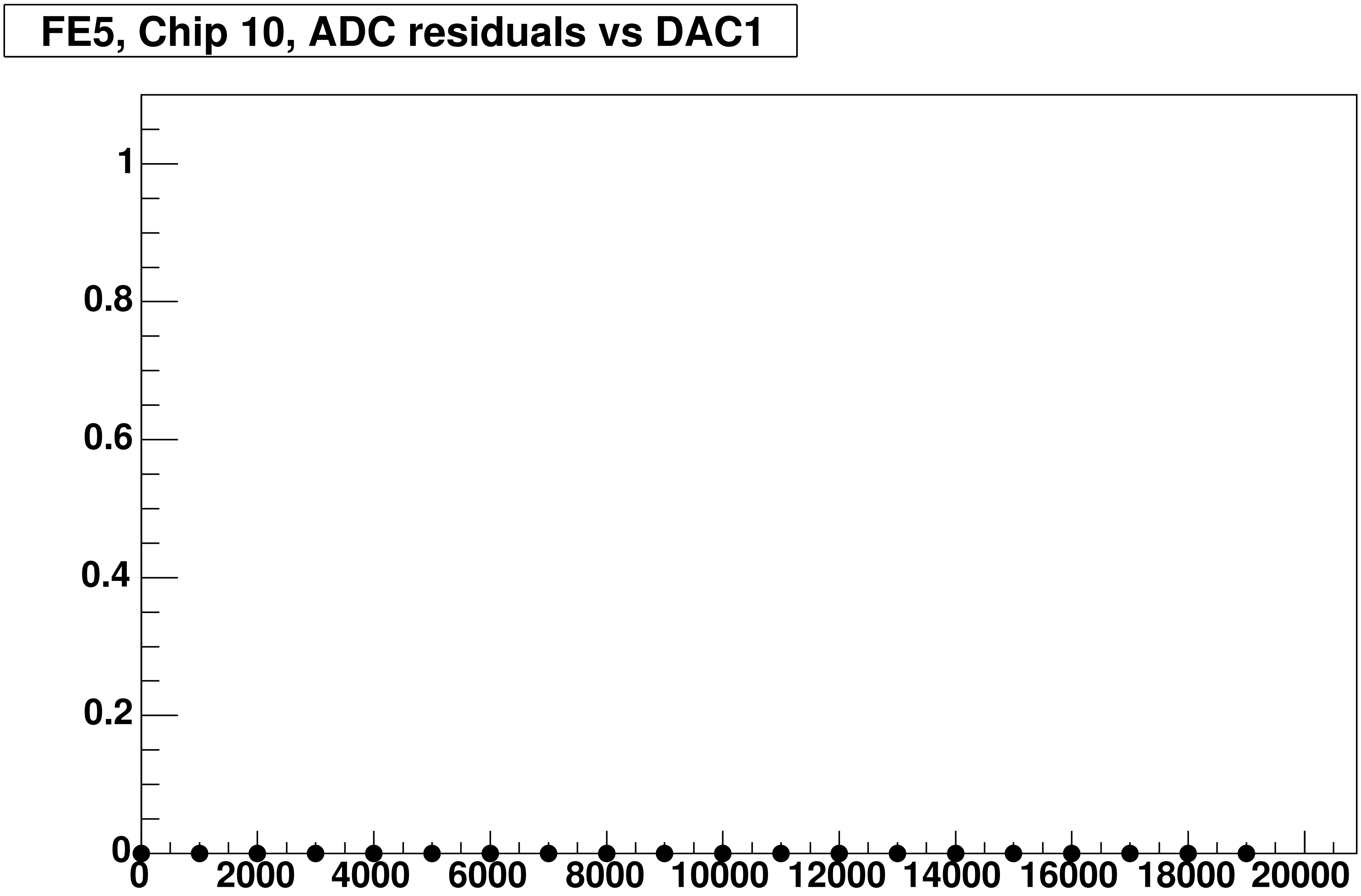

FE5, Chip 10, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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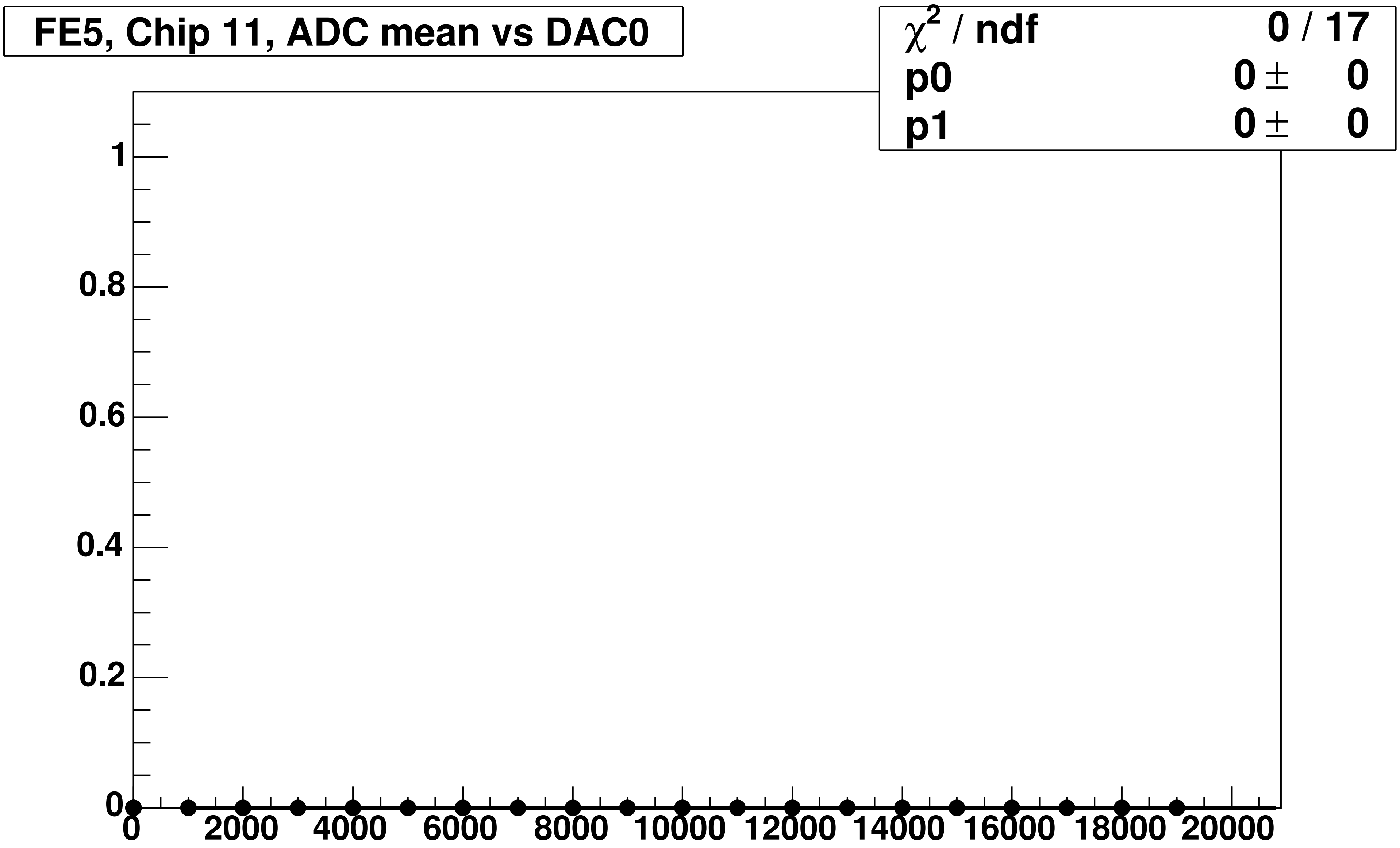
14000
16000
18000
20000


FE5, Chip 11, ADC mean vs DAC0
χ² / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
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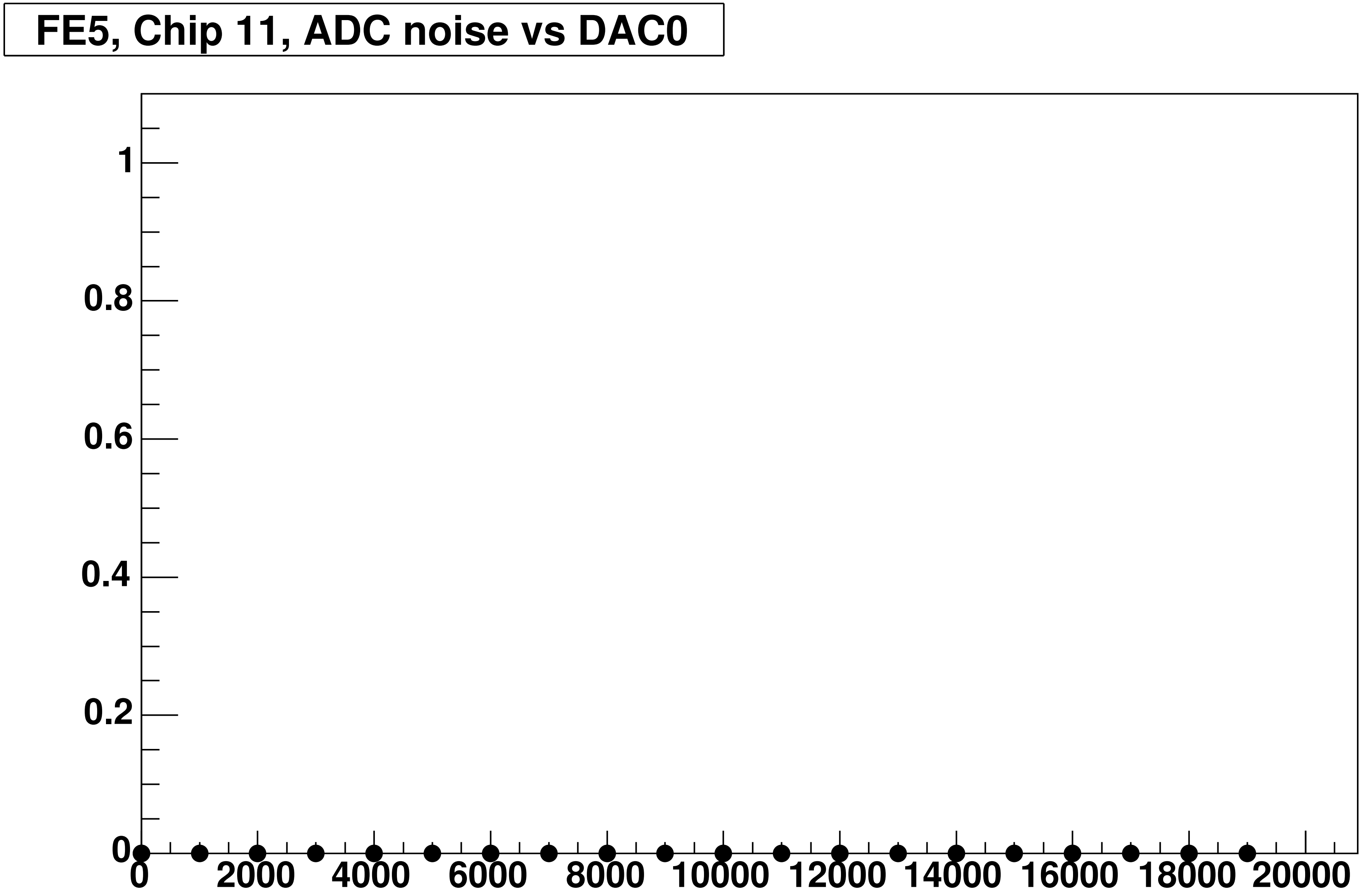
20000


FE5, Chip 11, ADC noise vs DAC0
0
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0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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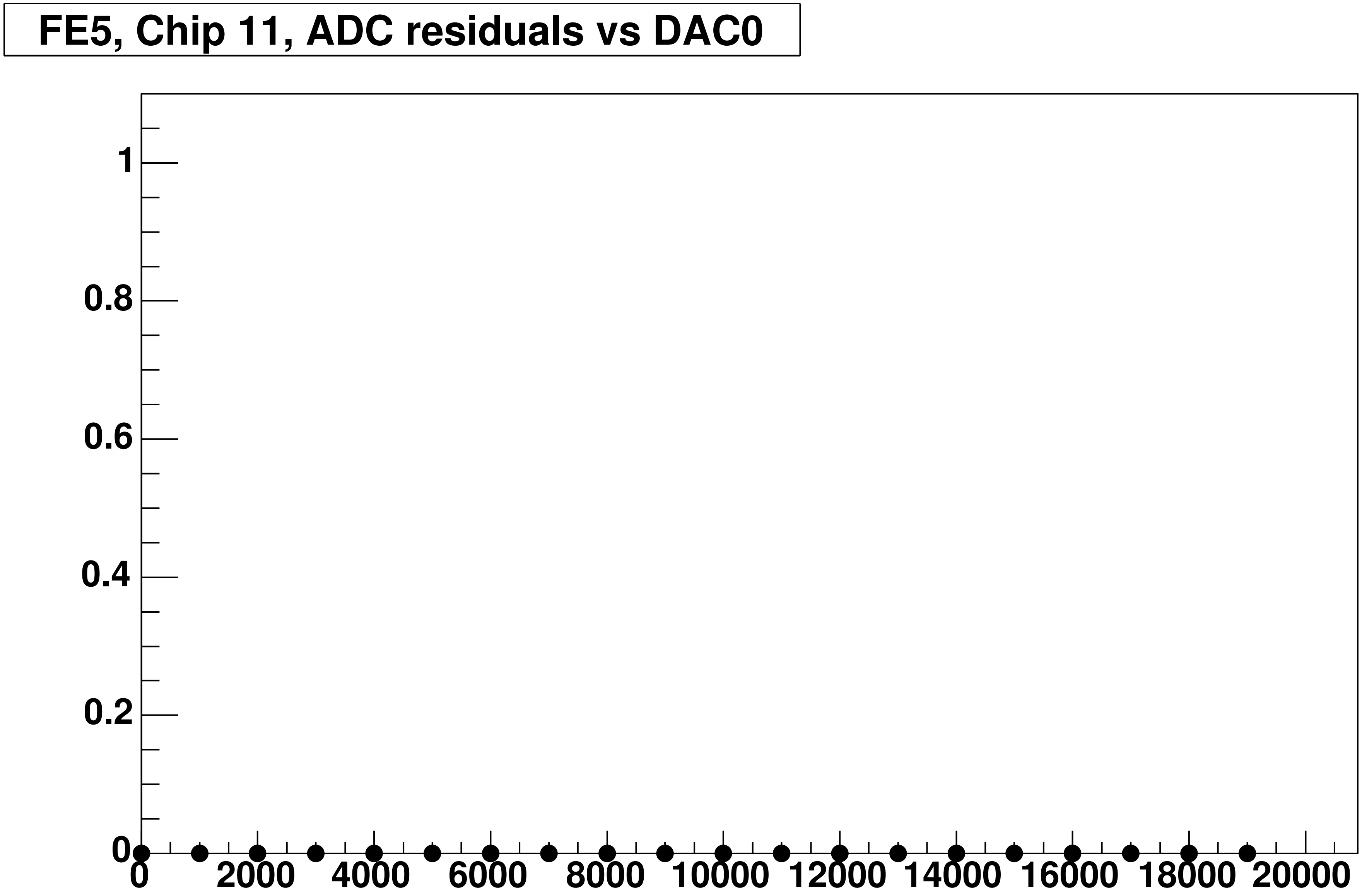
14000
16000
18000
20000


FE5, Chip 11, ADC residuals vs DAC0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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14000
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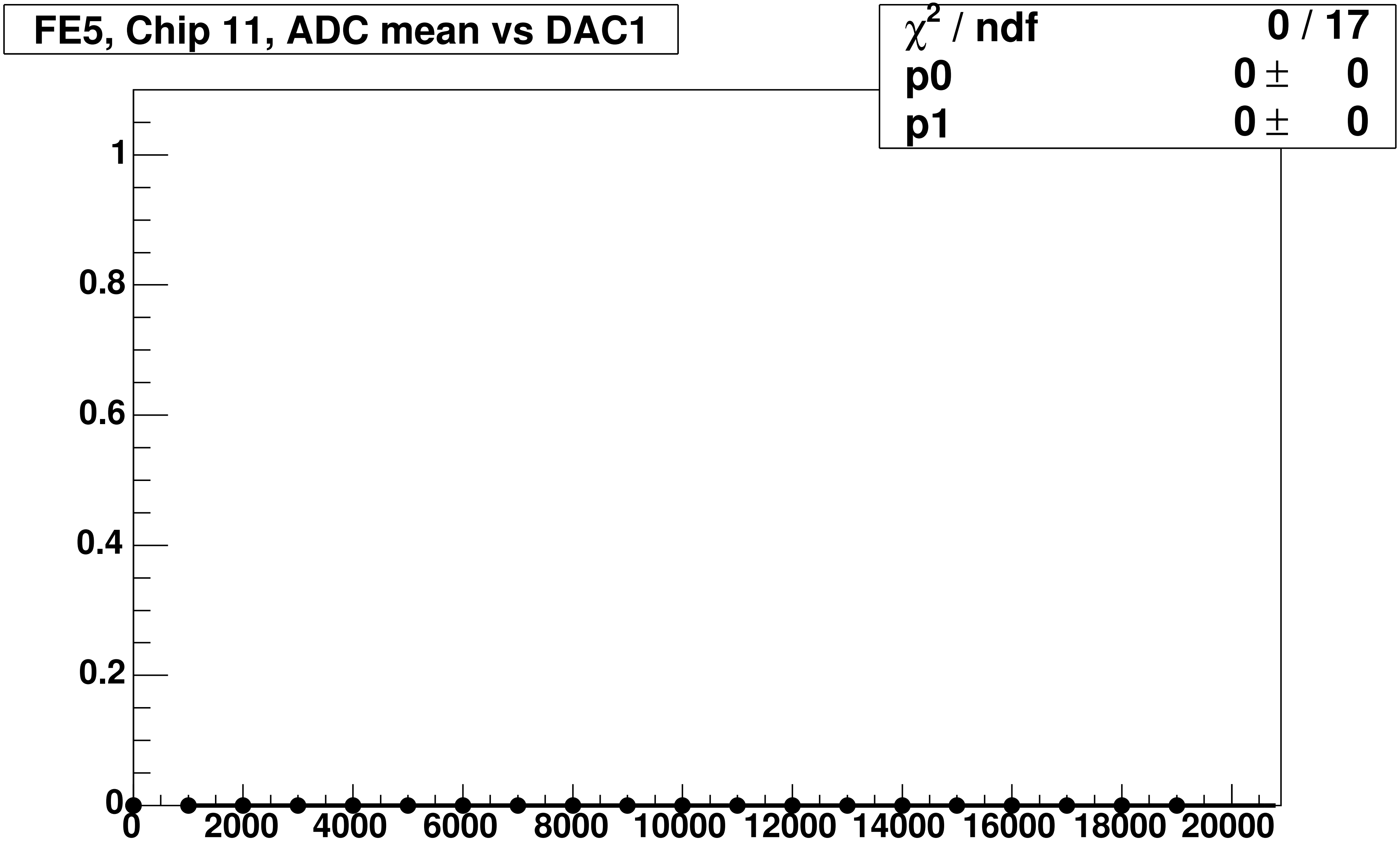
FE5, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
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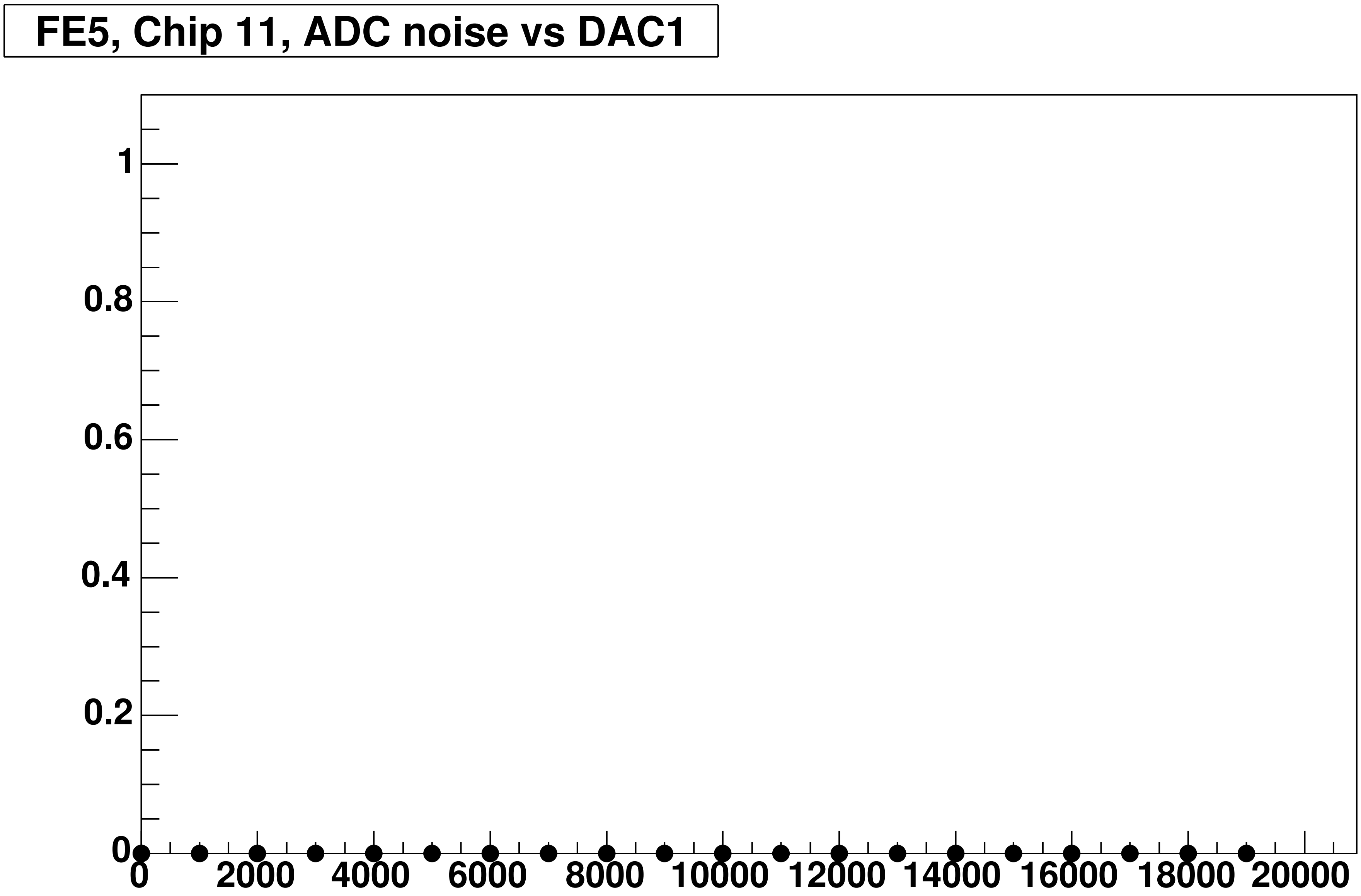

FE5, Chip 11, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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14000
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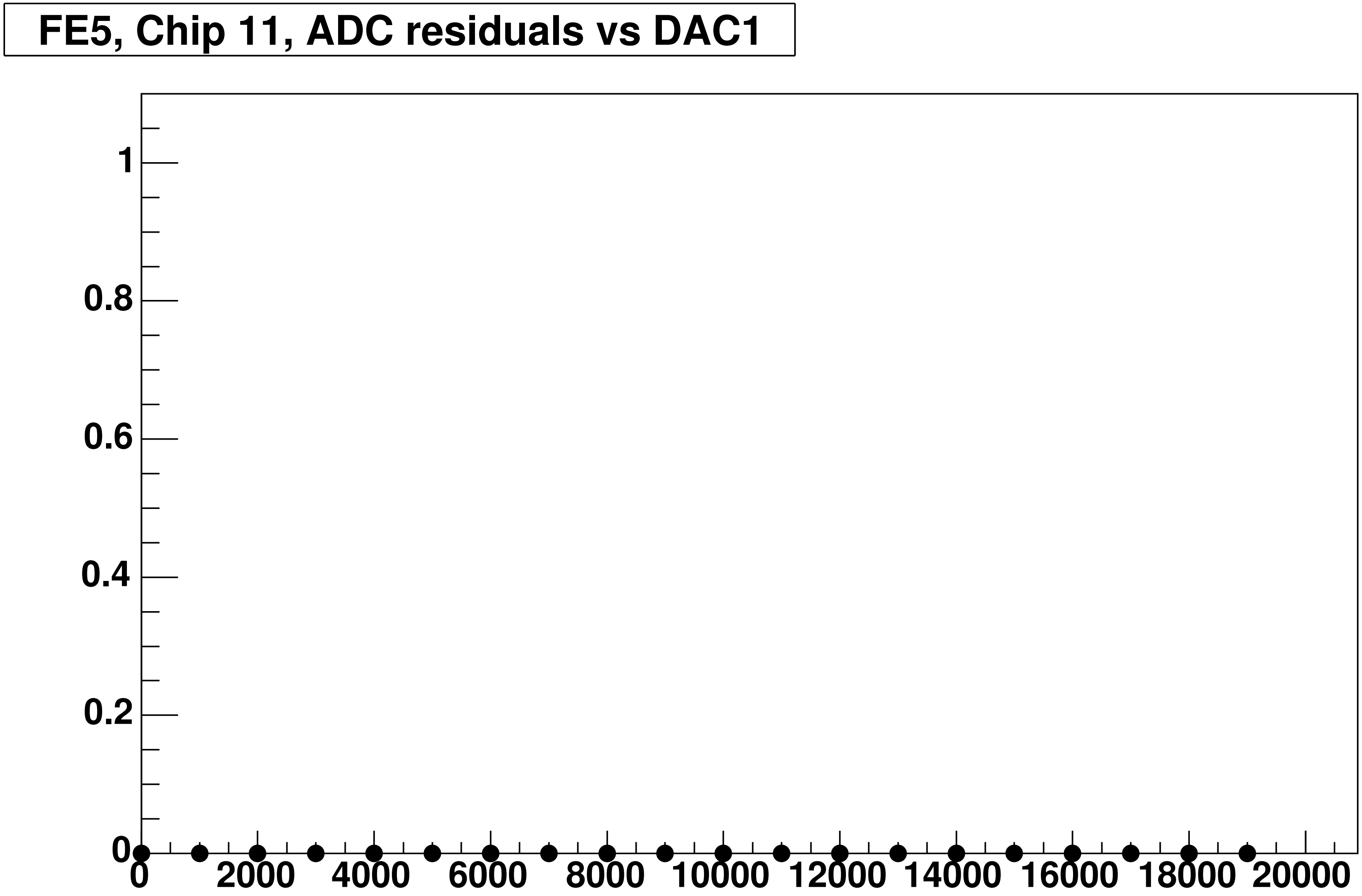

FE5, Chip 11, ADC residuals vs DAC1
1
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0.6
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0.2
0
0
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6000
8000
10000
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14000
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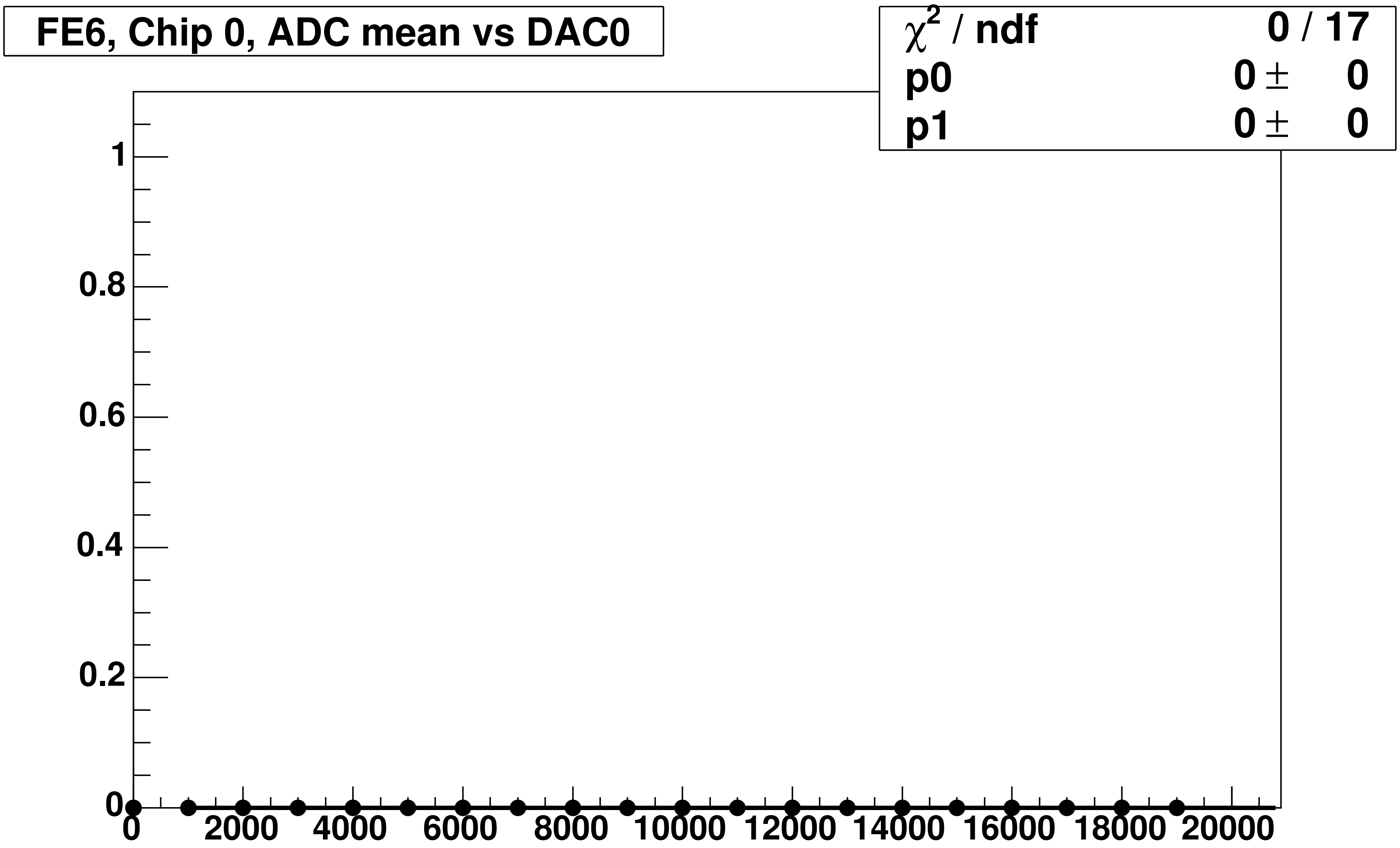
FE6, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
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0
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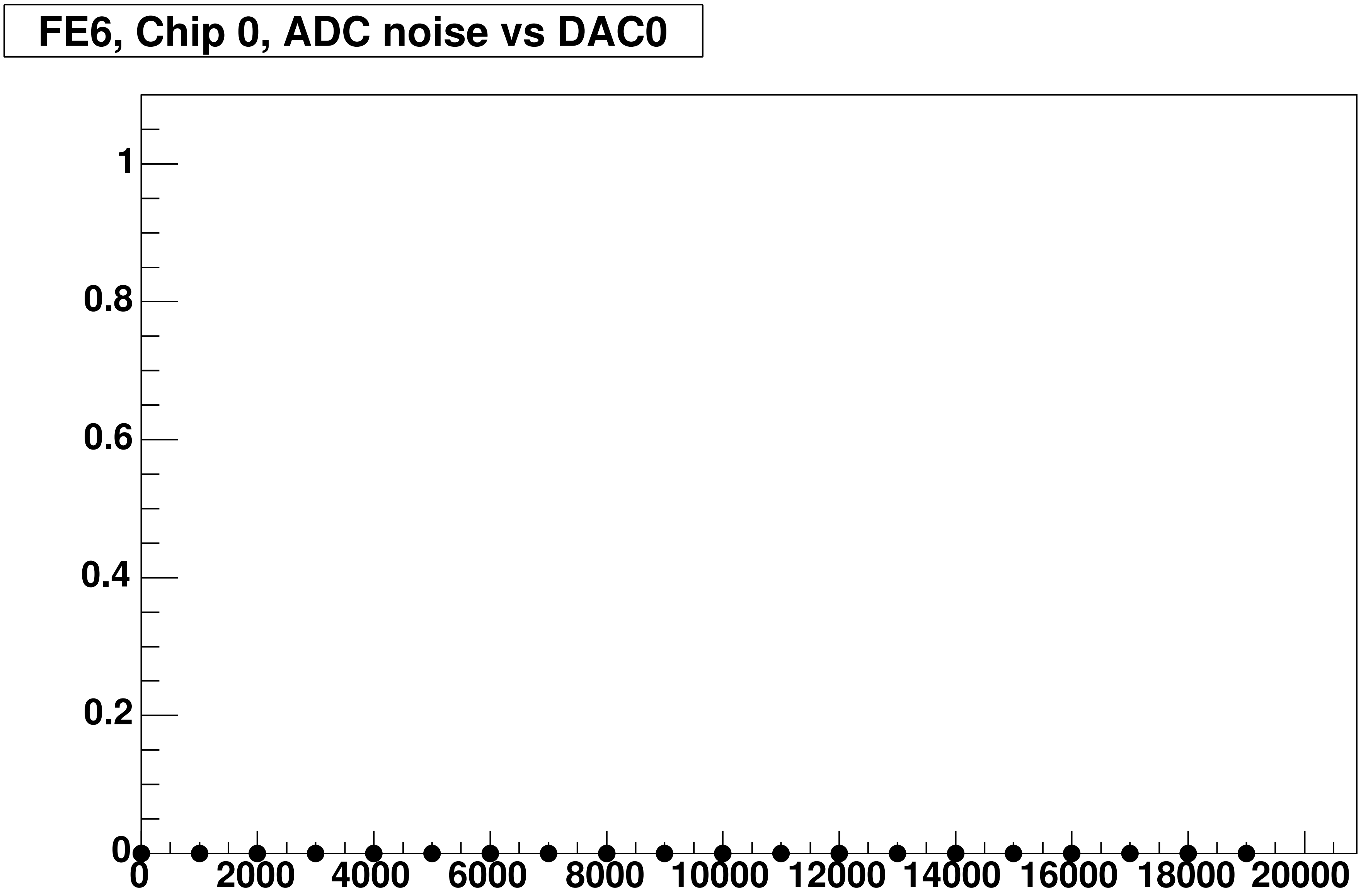
FE6, Chip 0, ADC noise vs DAC0
1
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0.6
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0
0
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8000
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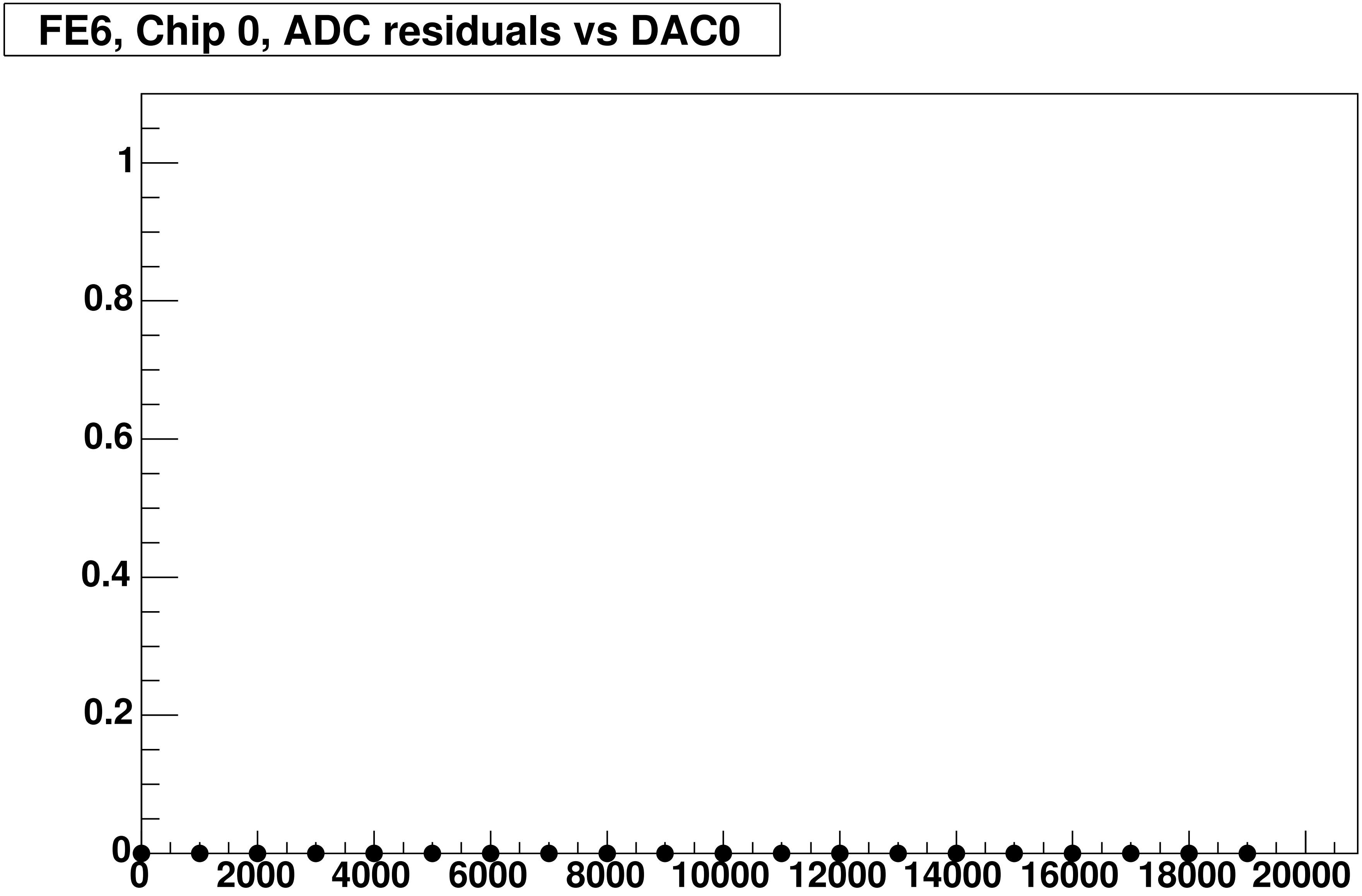
FE6, Chip 0, ADC residuals vs DAC0
1
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0
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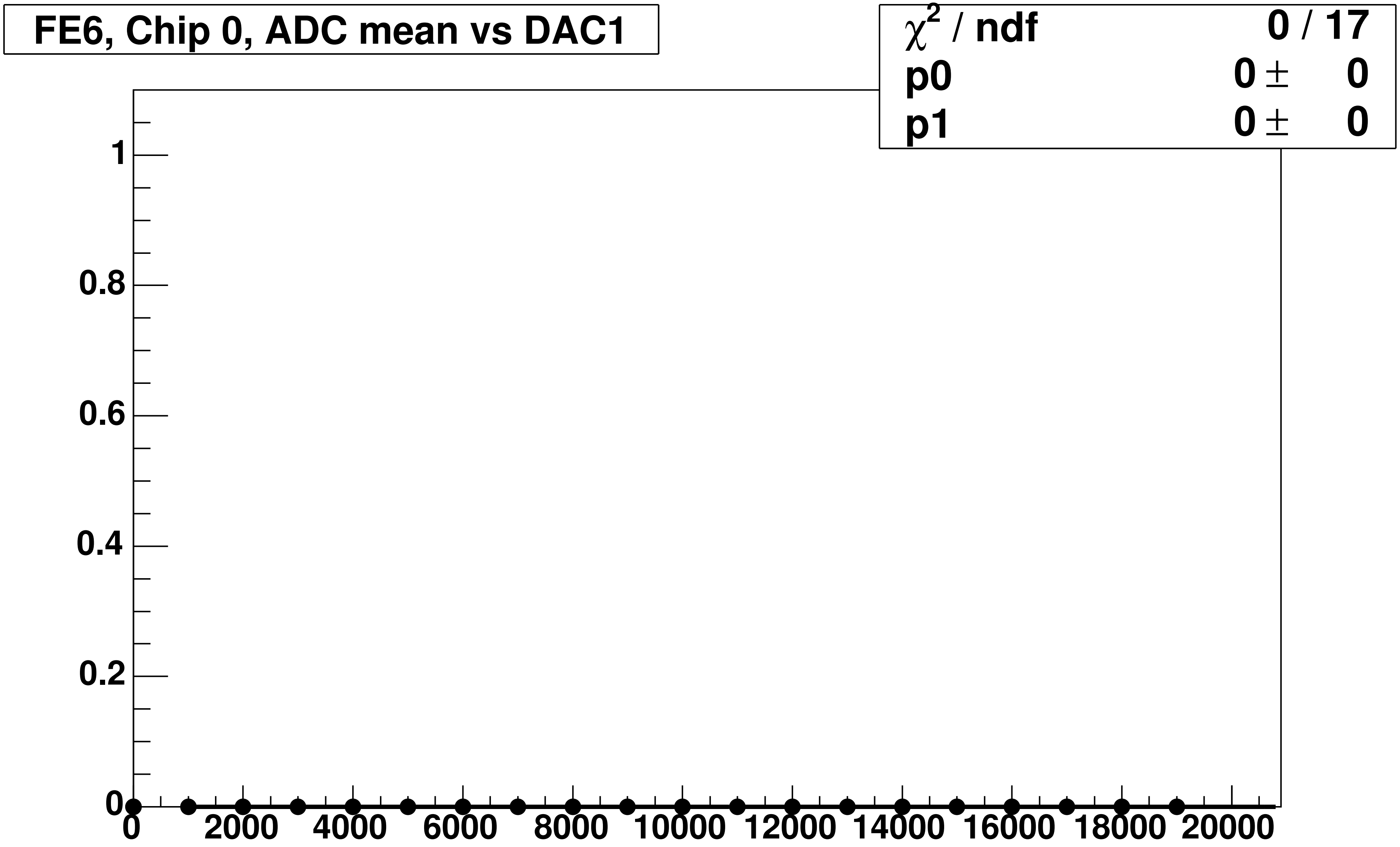
FE6, Chip 0, ADC mean vs DAC1
χ2 / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
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0
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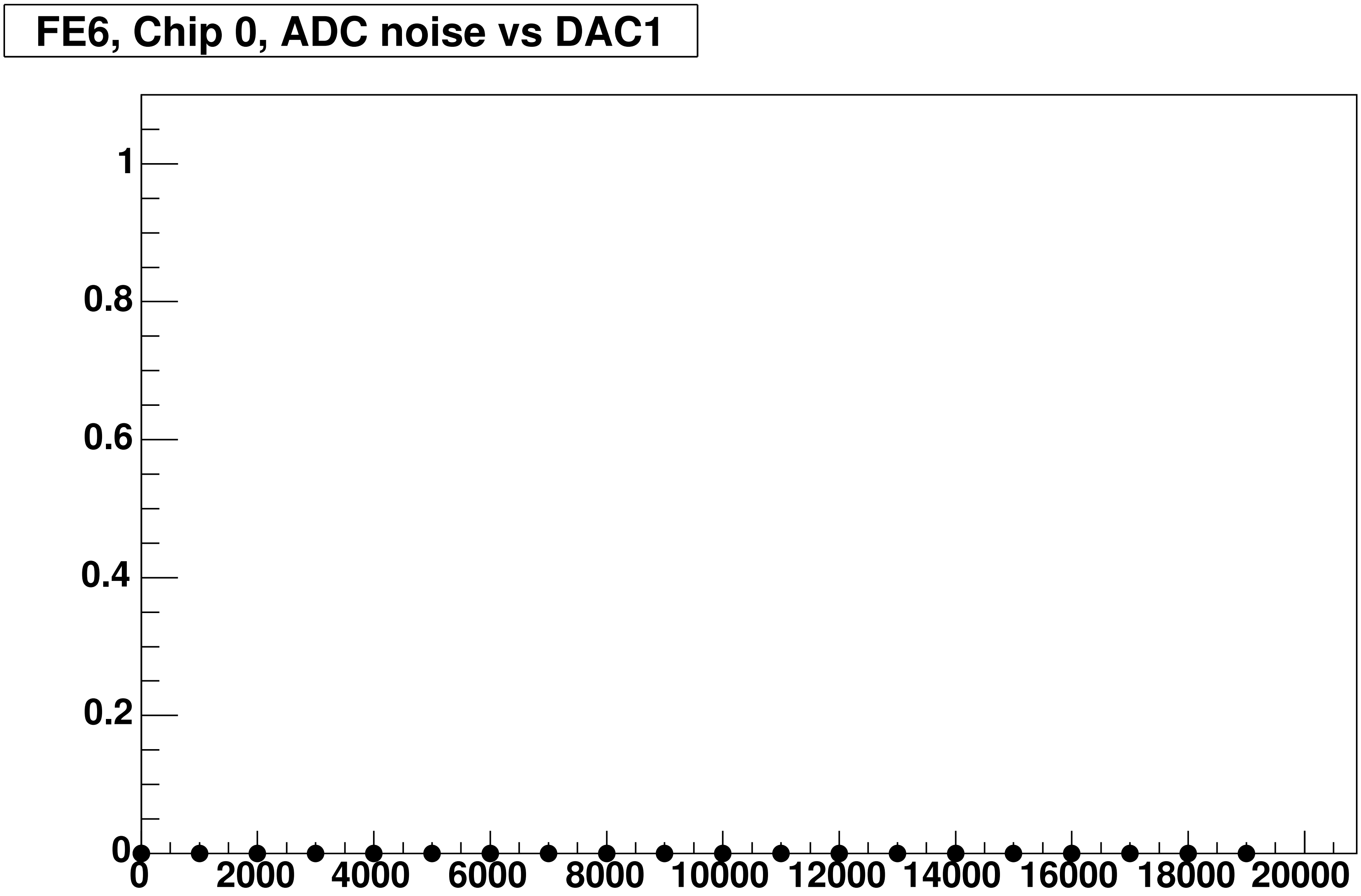
FE6, Chip 0, ADC noise vs DAC1
1
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0.6
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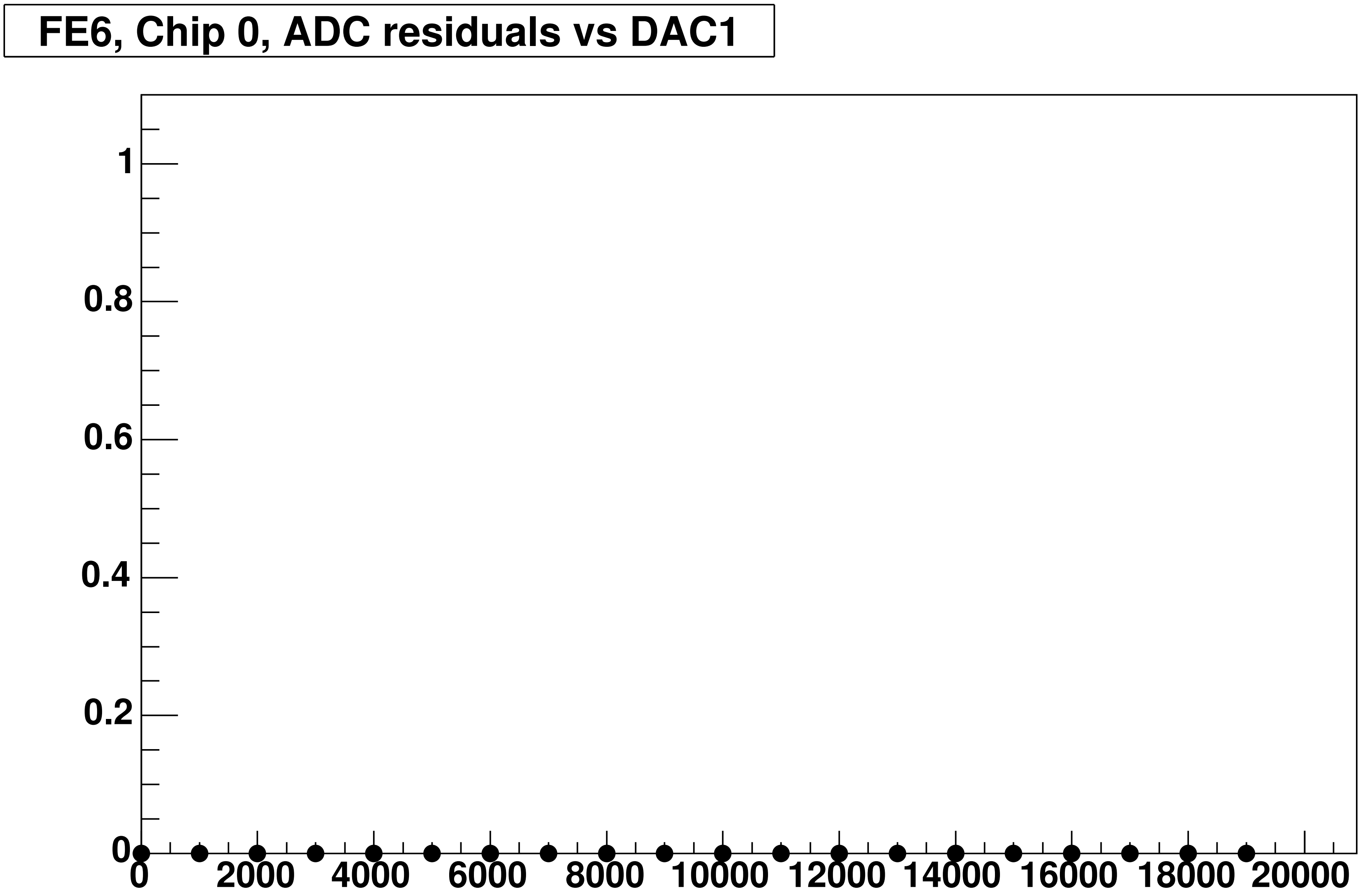
FE6, Chip 0, ADC residuals vs DAC1
1
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0.2
0
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8000
10000
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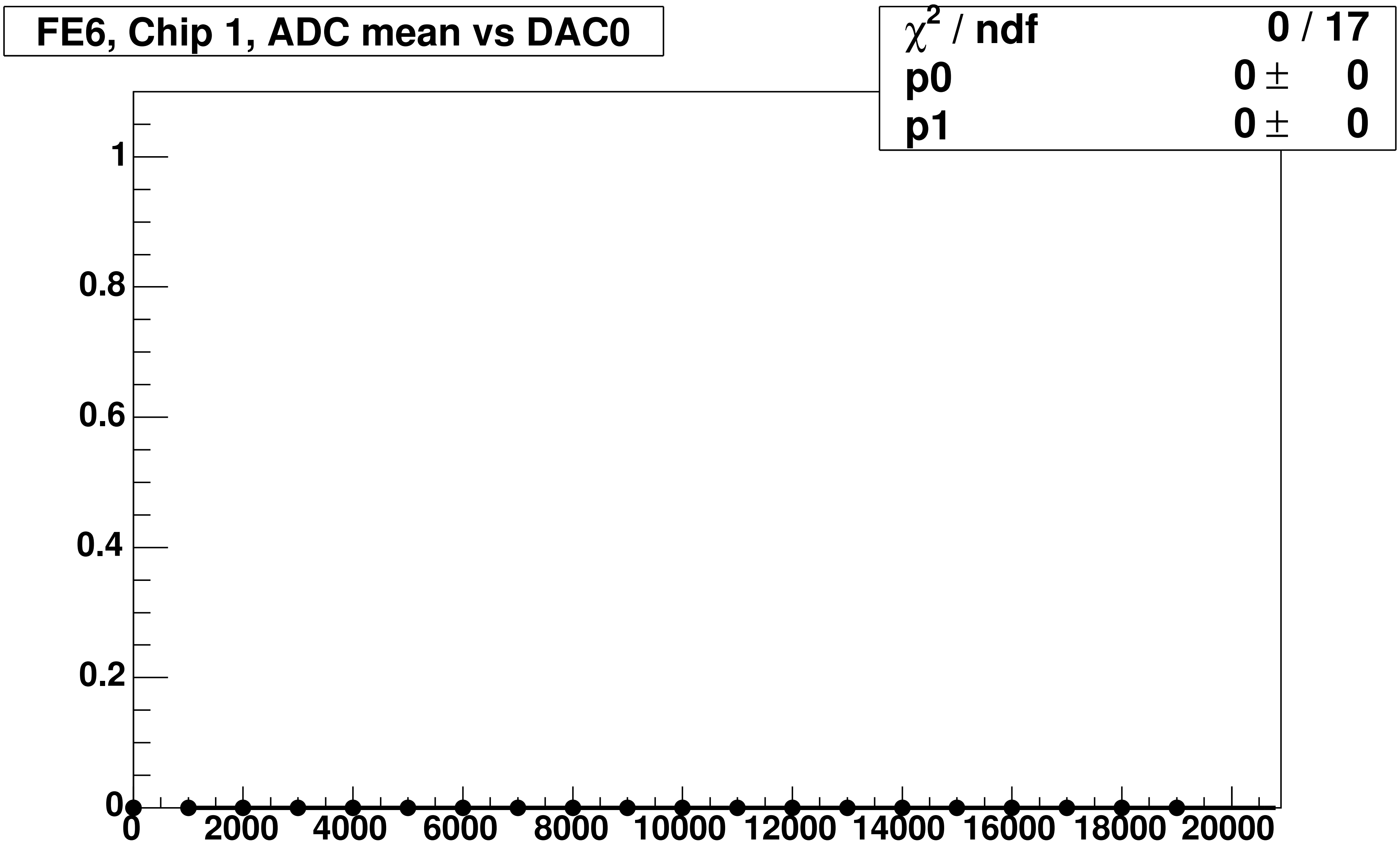

FE6, Chip 1, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
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0
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10000
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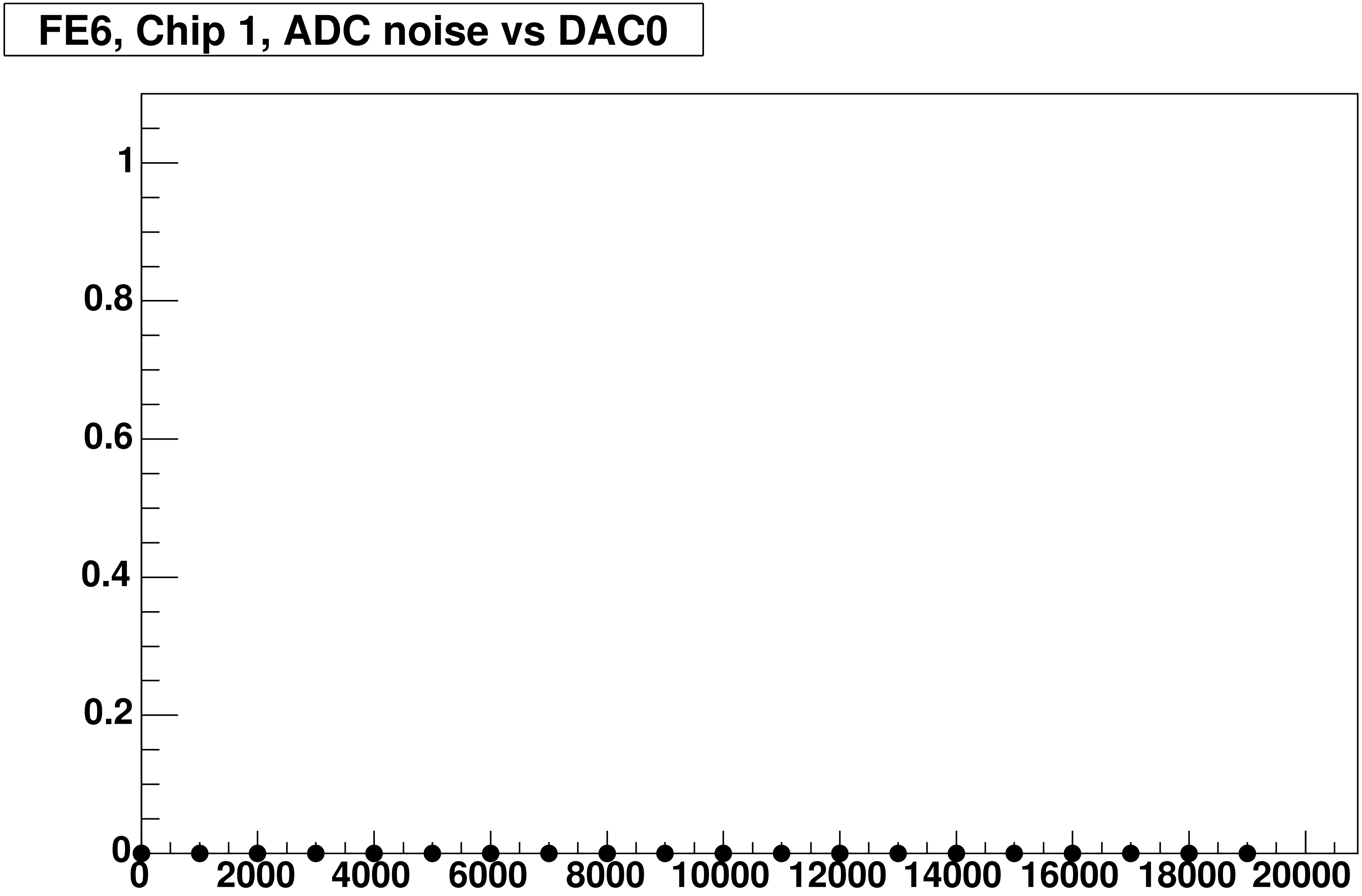
FE6, Chip 1, ADC noise vs DAC0
1
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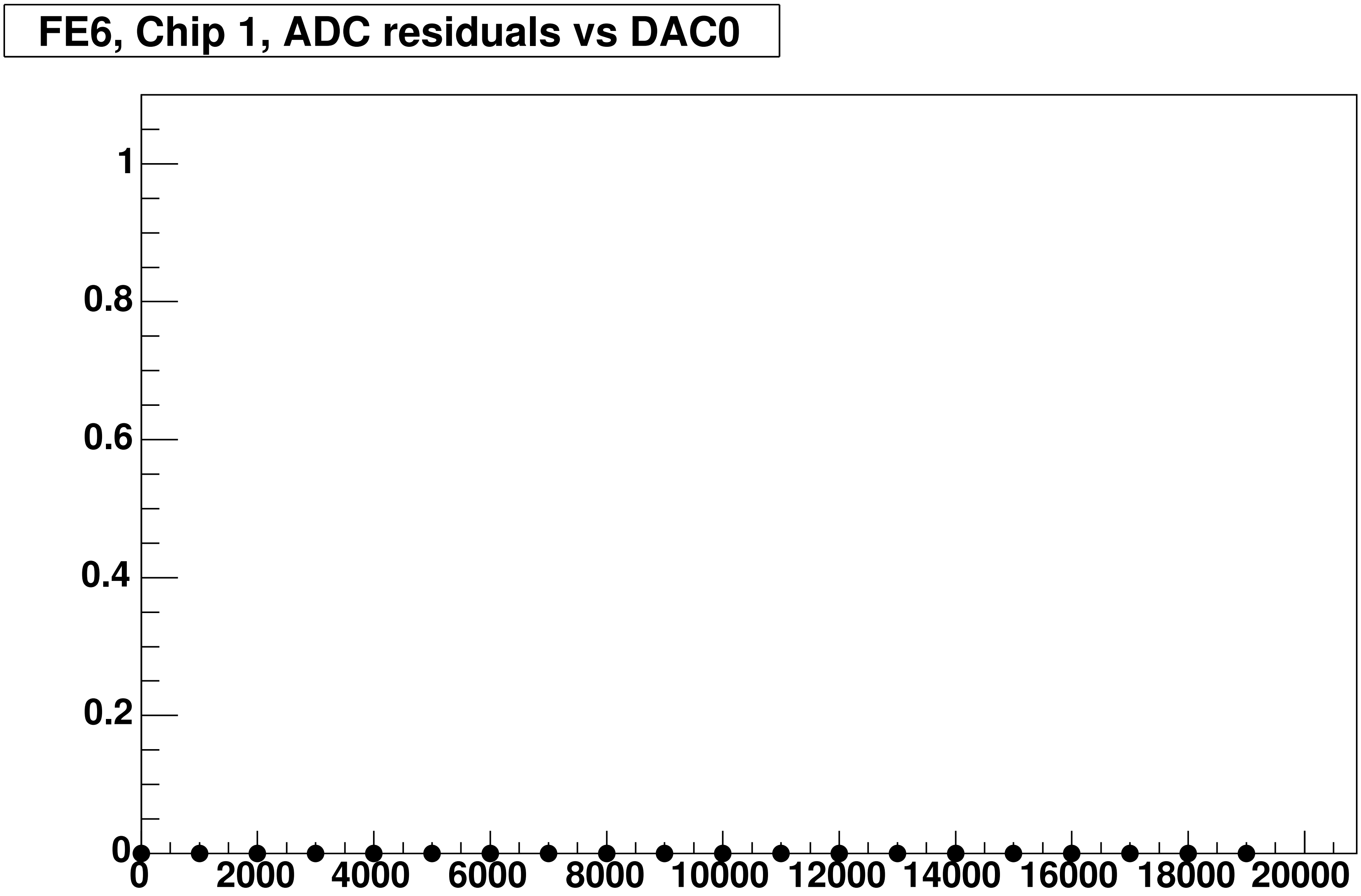
FE6, Chip 1, ADC residuals vs DAC0
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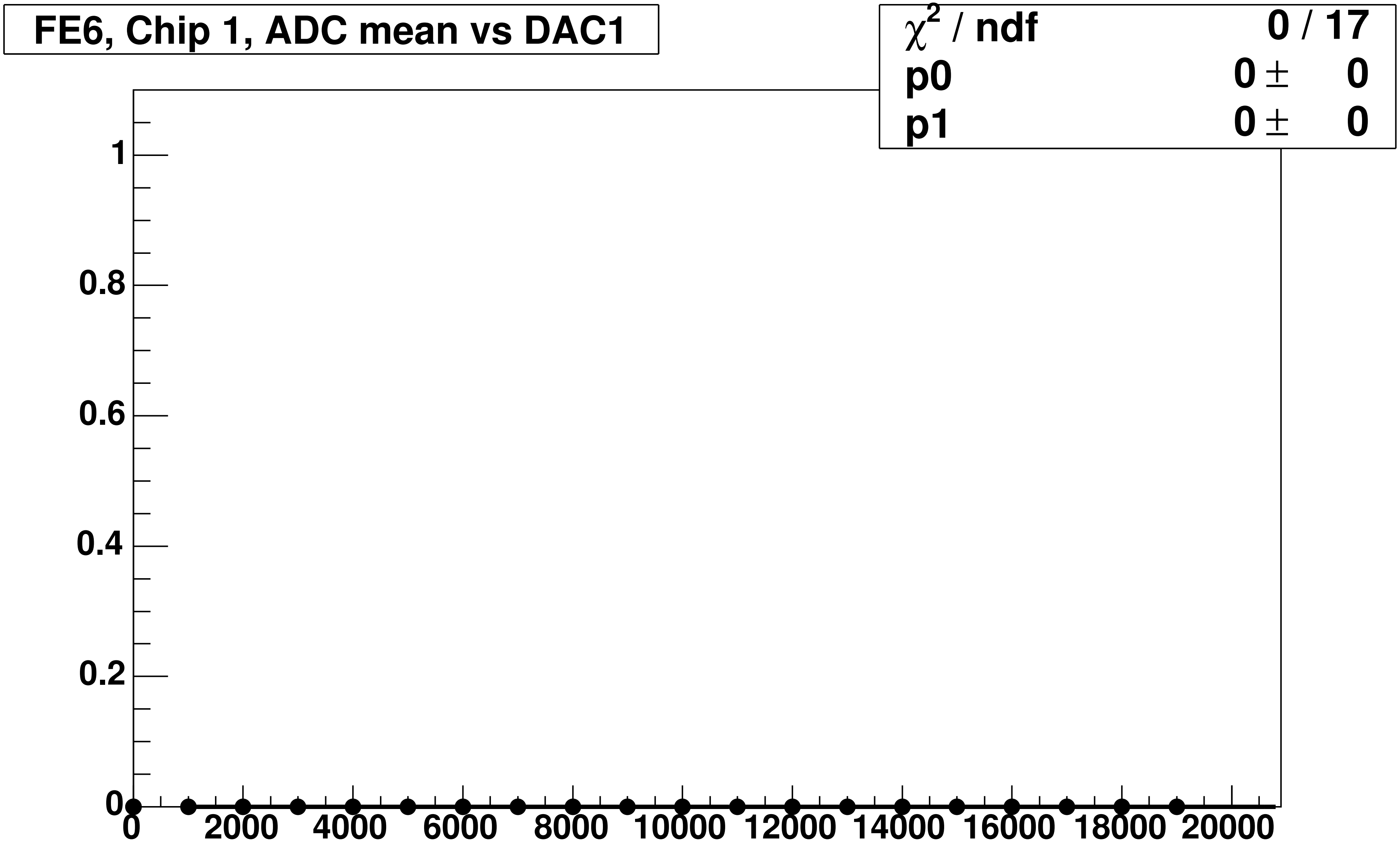
FE6, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
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0.8
1
0
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8000
10000
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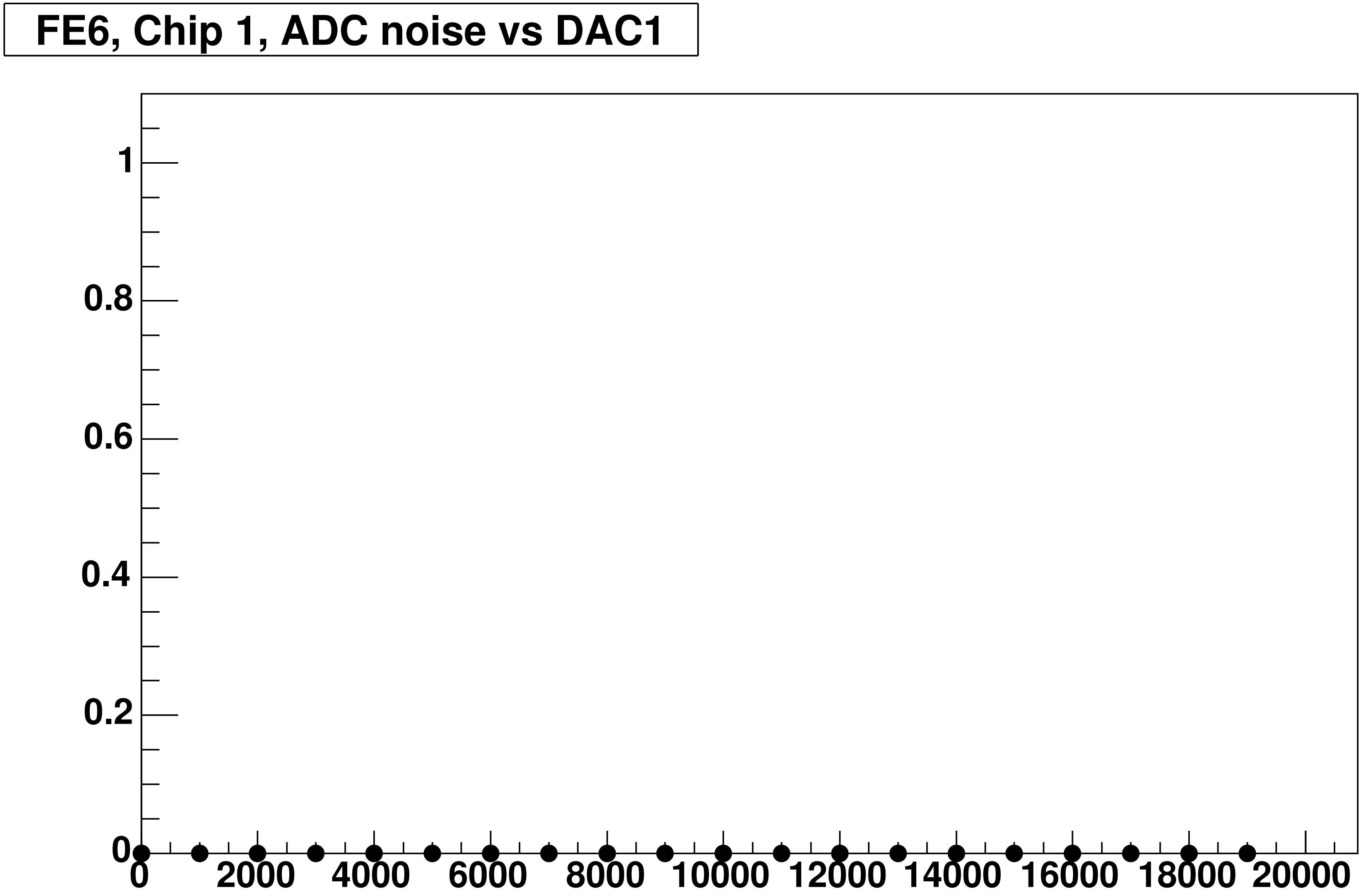
FE6, Chip 1, ADC noise vs DAC1
1
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0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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14000
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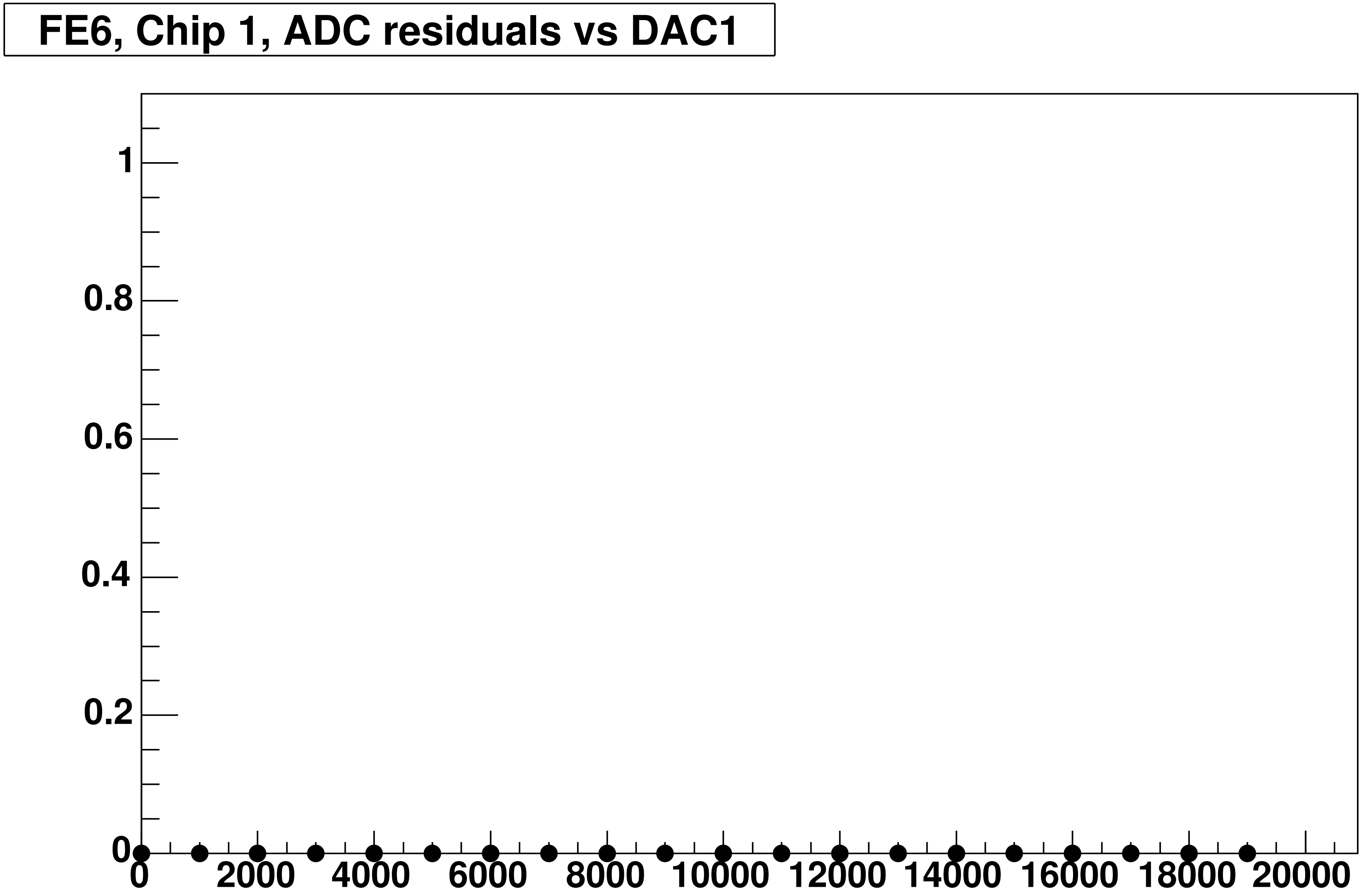
FE6, Chip 1, ADC residuals vs DAC1
1
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0.6
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0.2
0
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8000
10000
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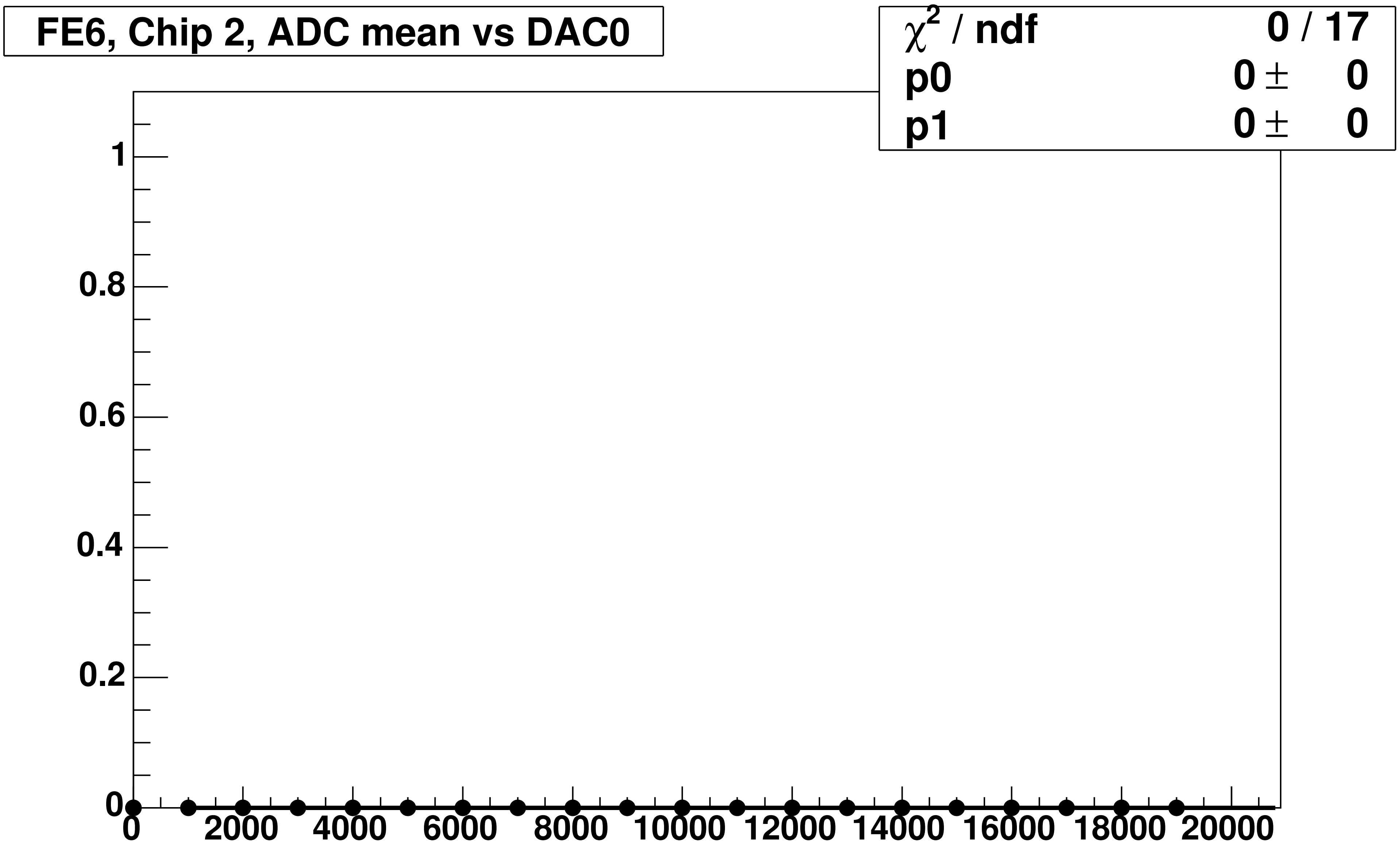
FE6, Chip 2, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
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0.6
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0.2
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8000
10000
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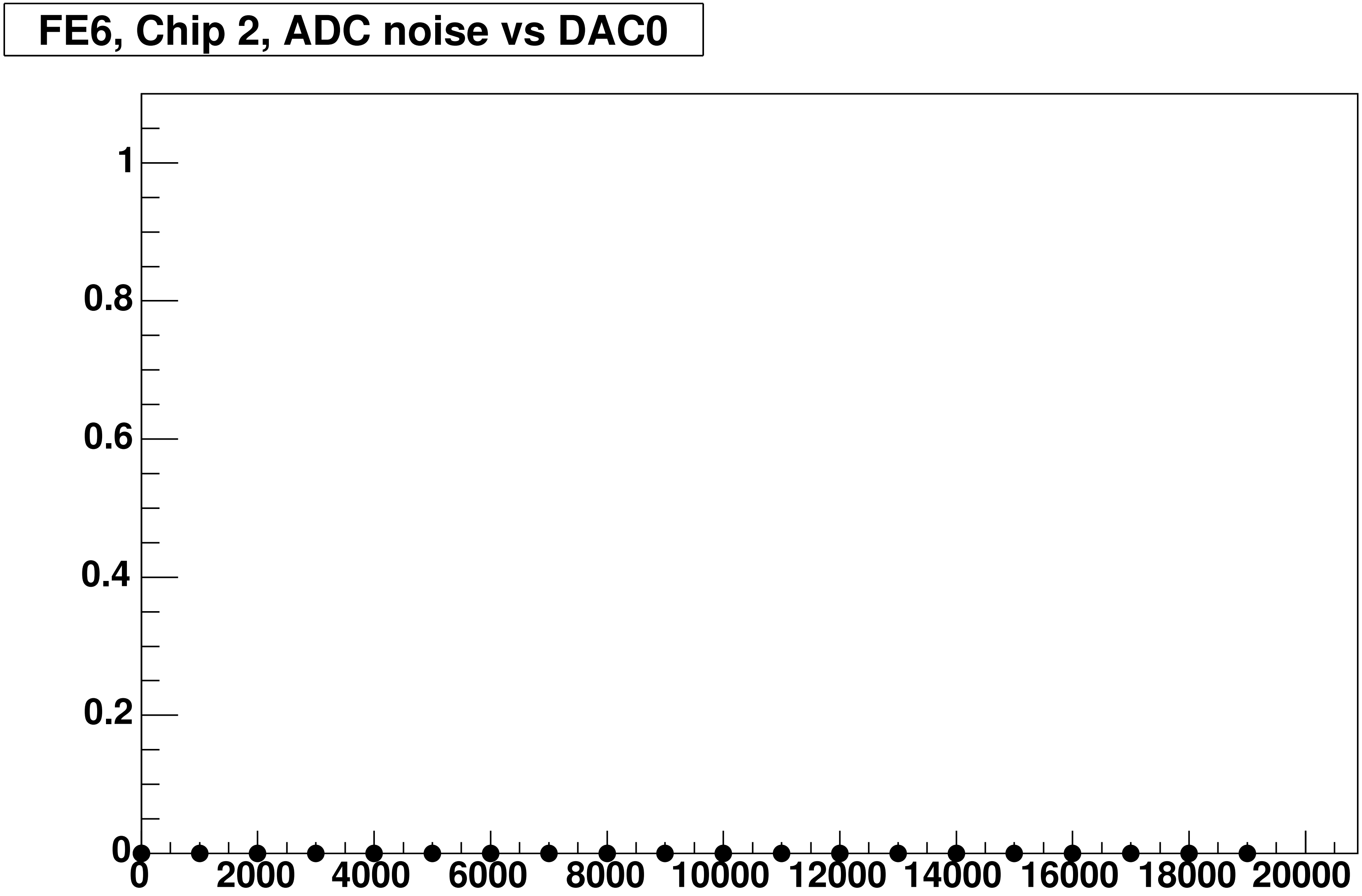
FE6, Chip 2, ADC noise vs DAC0
1
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0.2
0
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6000
8000
10000
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14000
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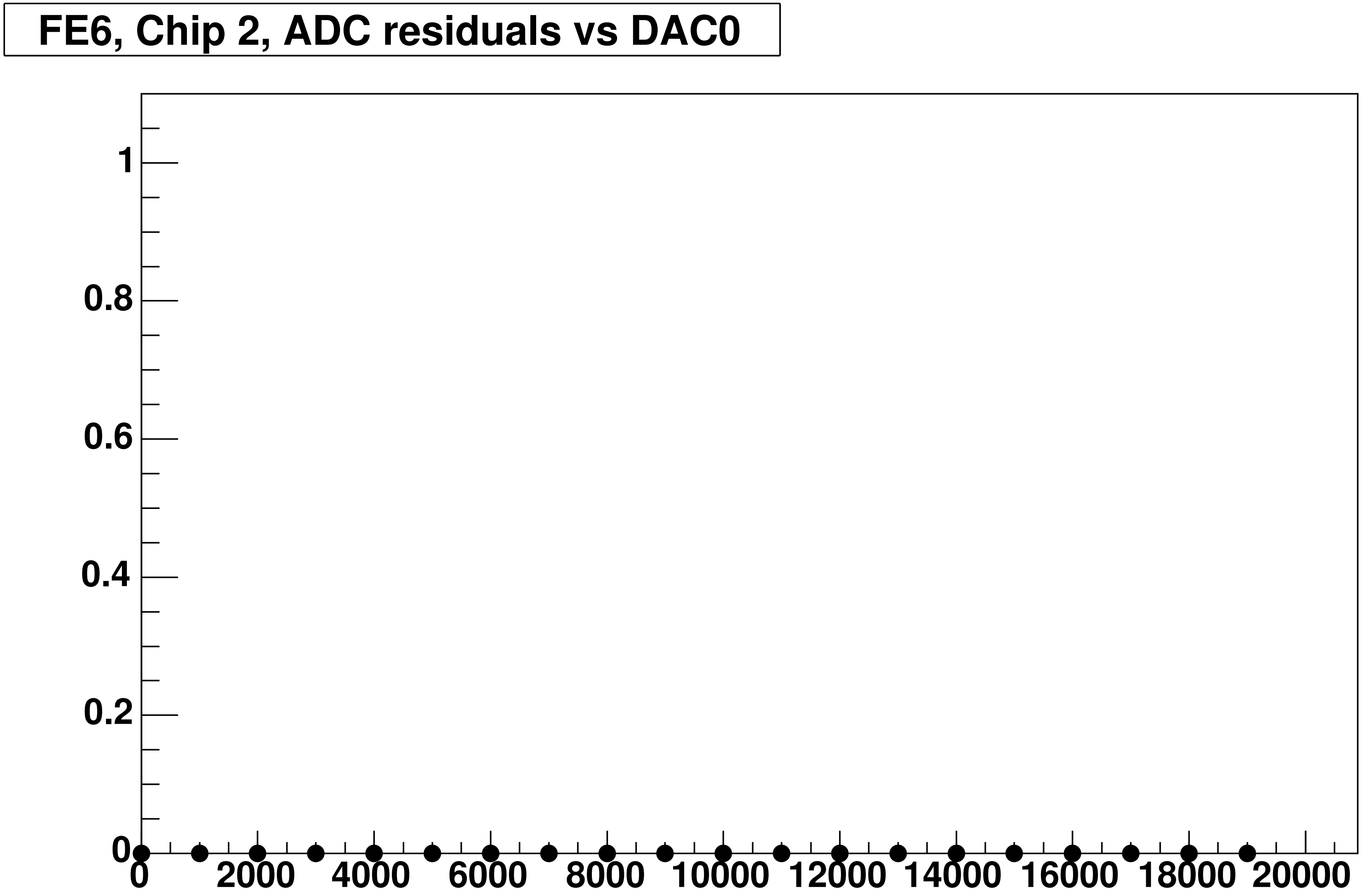
FE6, Chip 2, ADC residuals vs DAC0
1
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0.6
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0.2
0
0
2000
4000
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8000
10000
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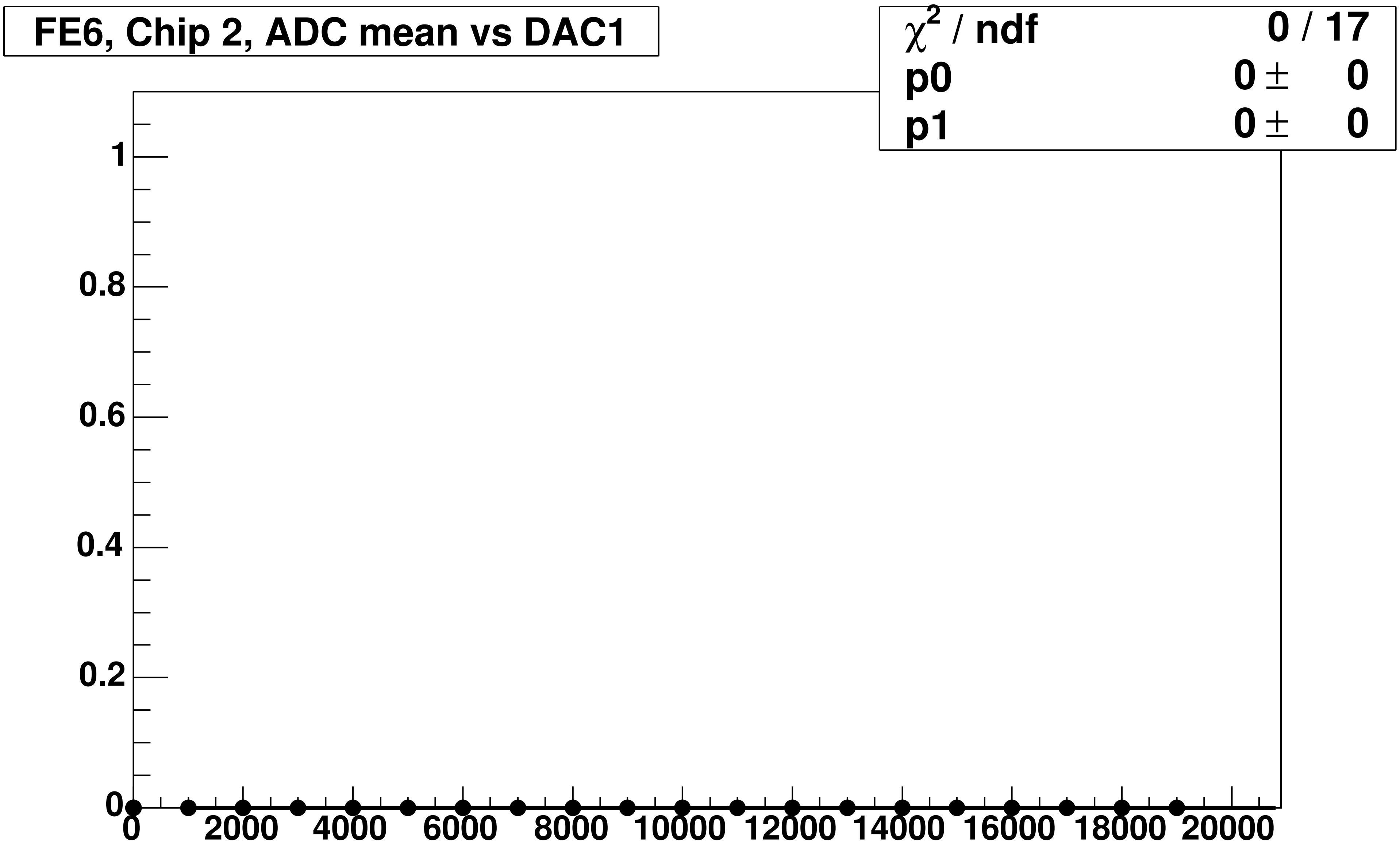
FE6, Chip 2, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
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0
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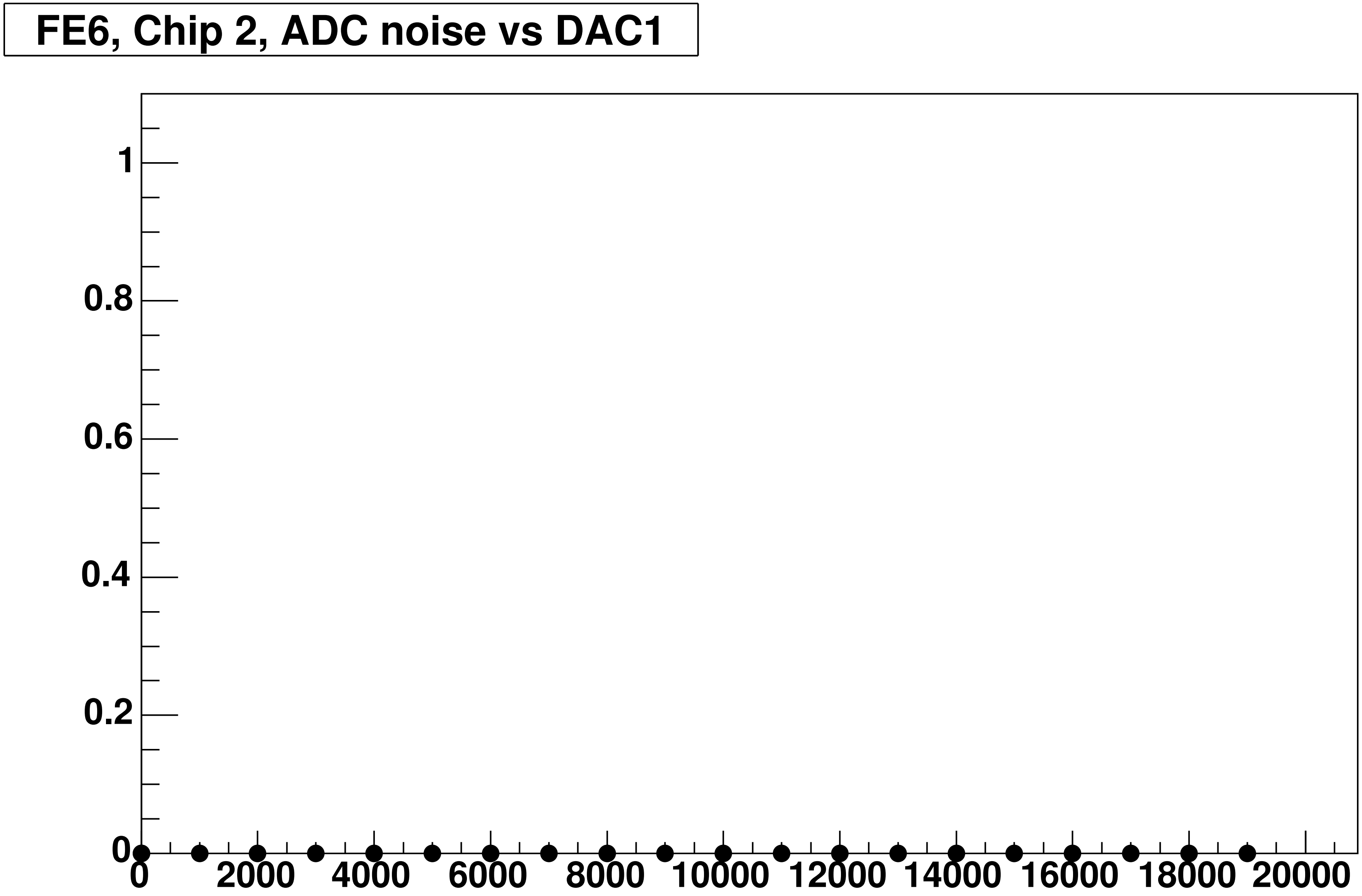
FE6, Chip 2, ADC noise vs DAC1
0
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0.8
1
0
2000
4000
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8000
10000
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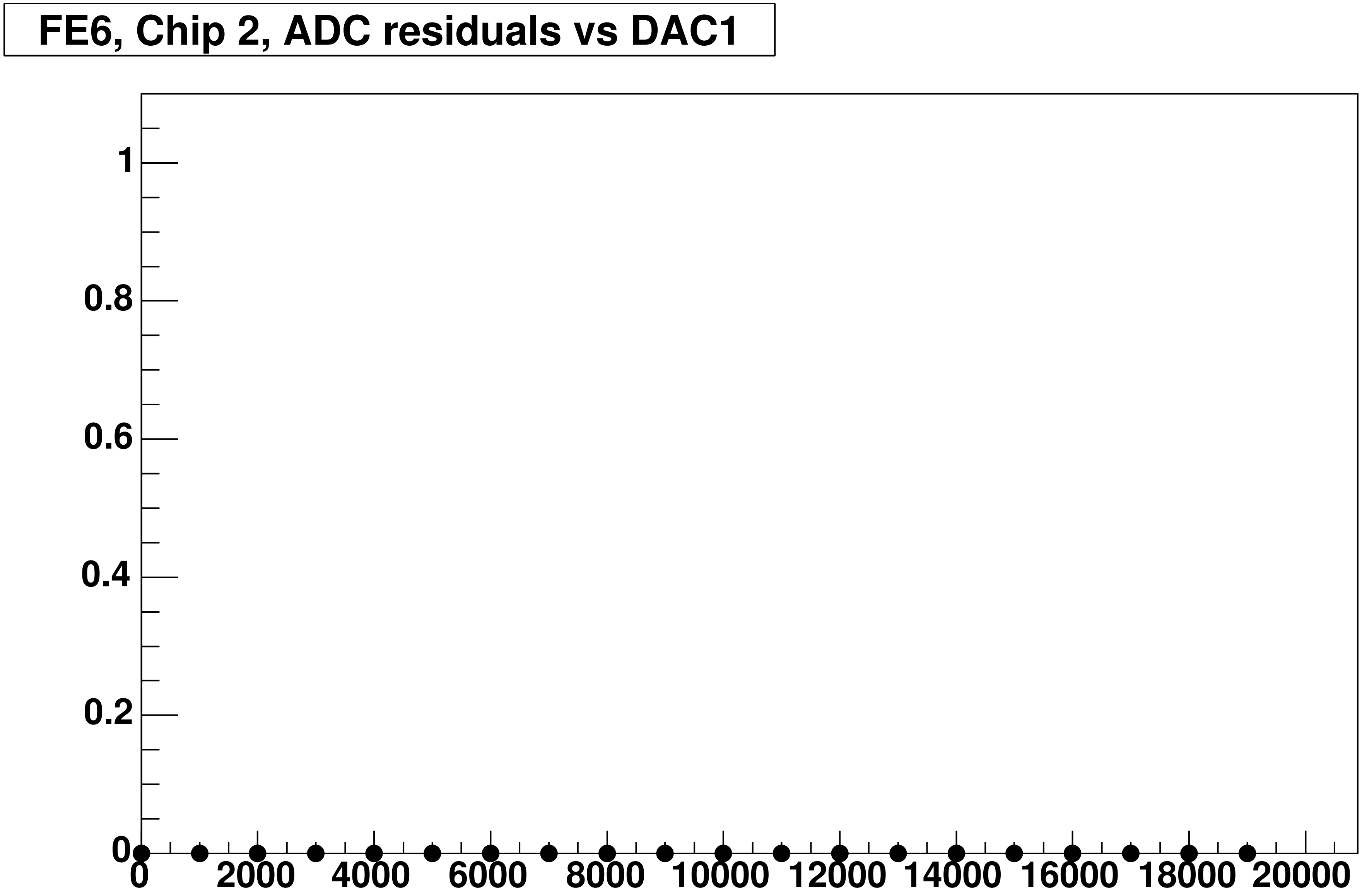
FE6, Chip 2, ADC residuals vs DAC1
1
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0.2
0
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2000
4000
6000
8000
10000
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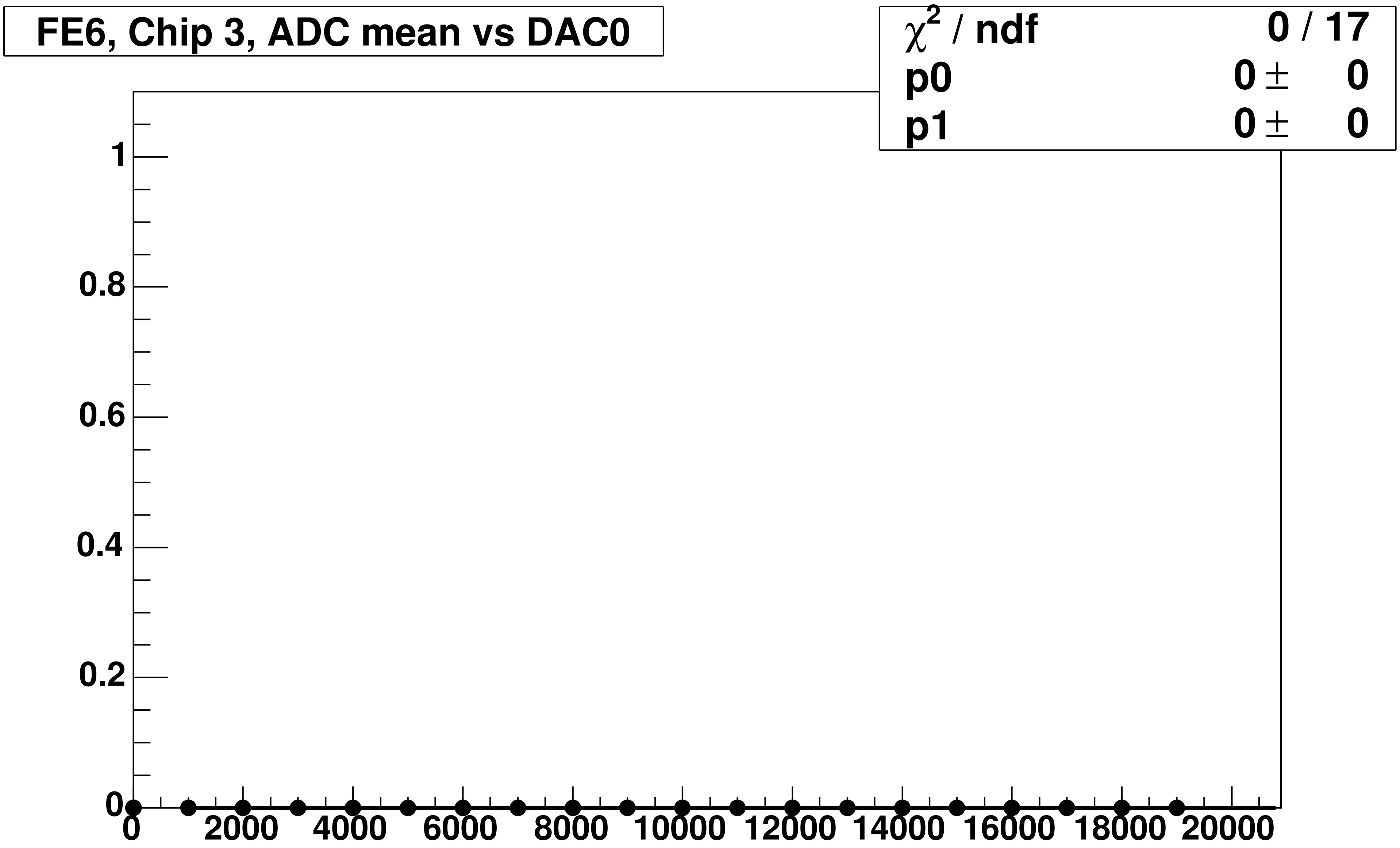
20000


FE6, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
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0.8
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0
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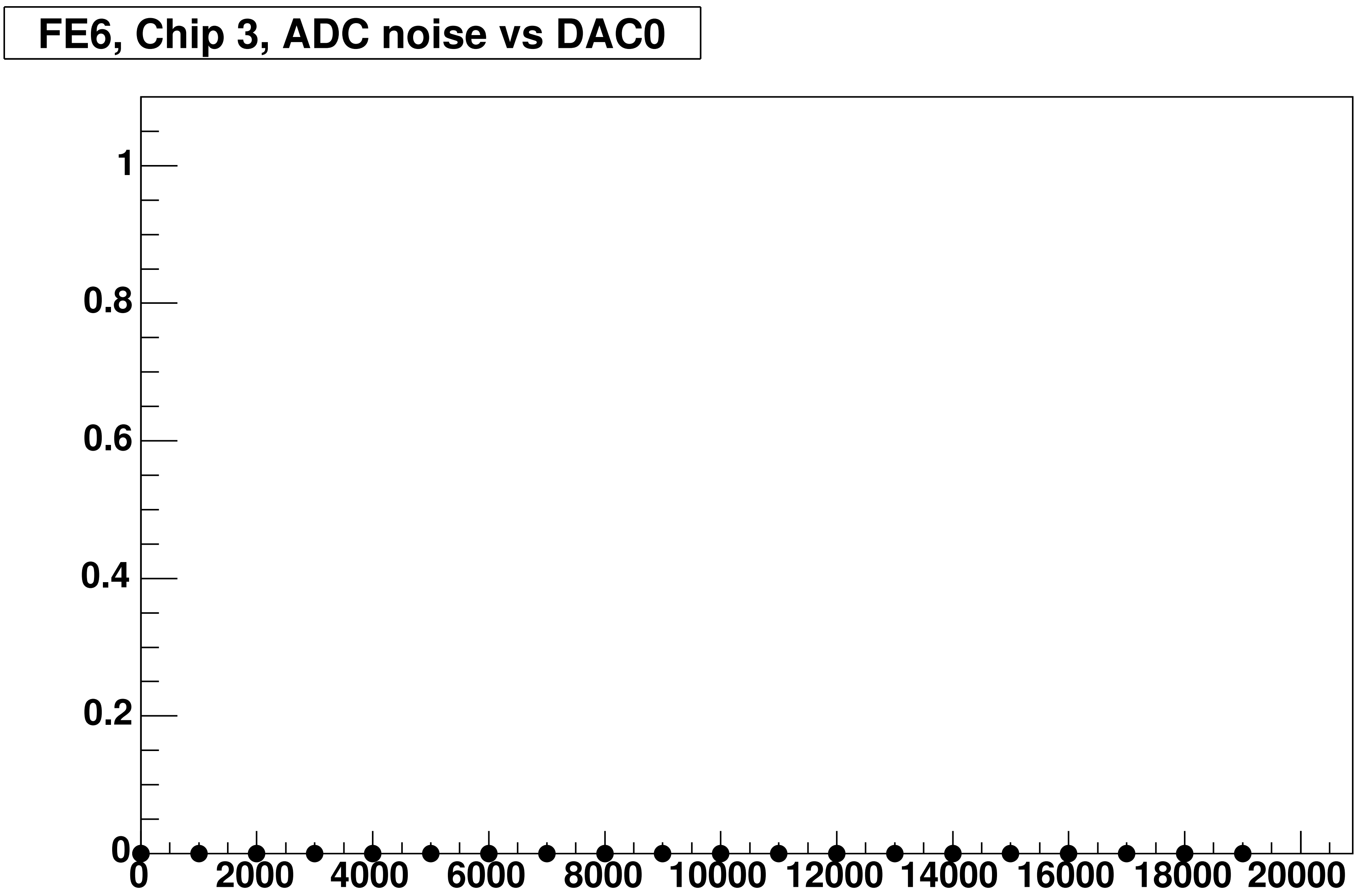
FE6, Chip 3, ADC noise vs DAC0
1
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0.2
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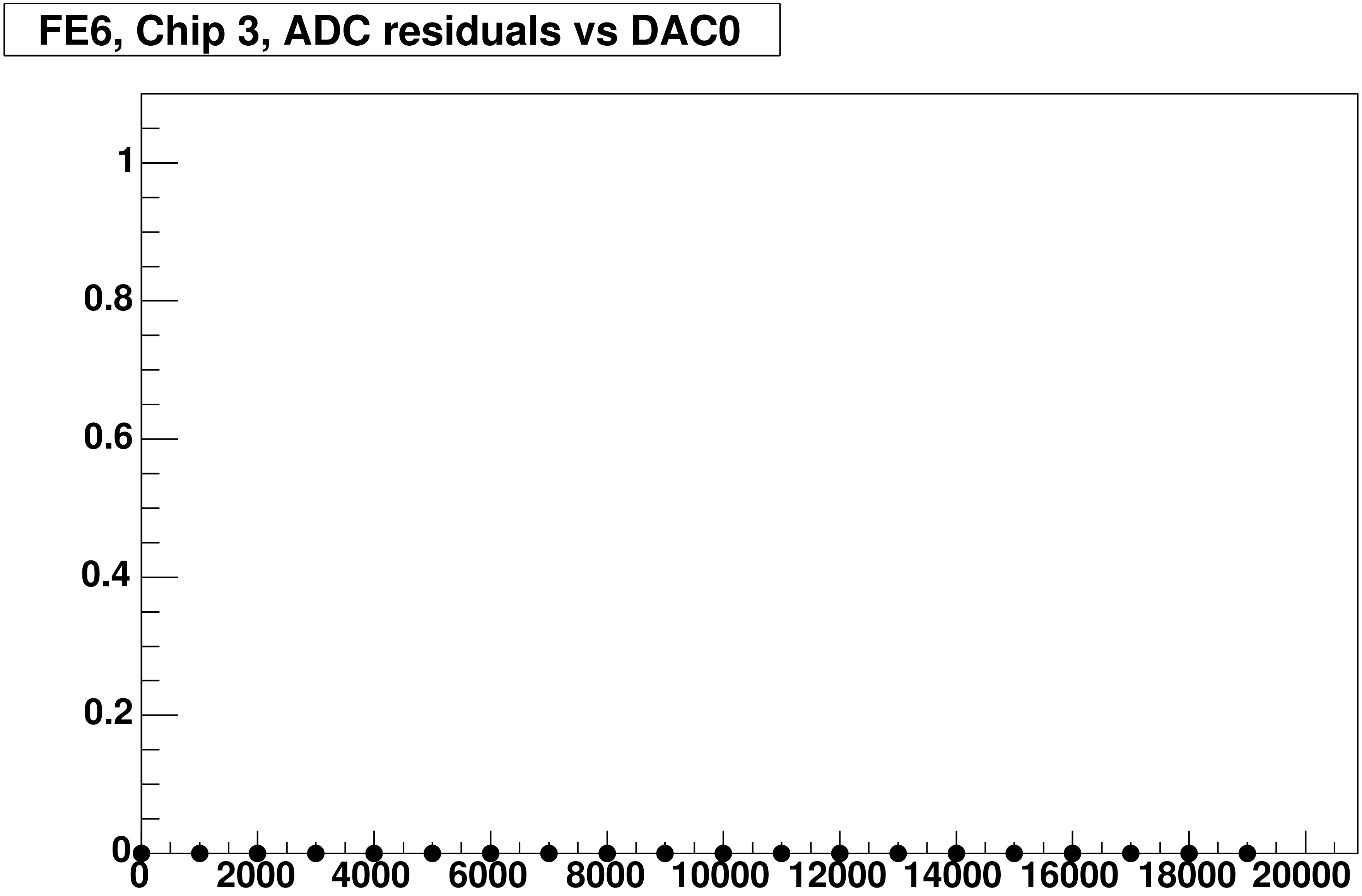
FE6, Chip 3, ADC residuals vs DAC0
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0.6
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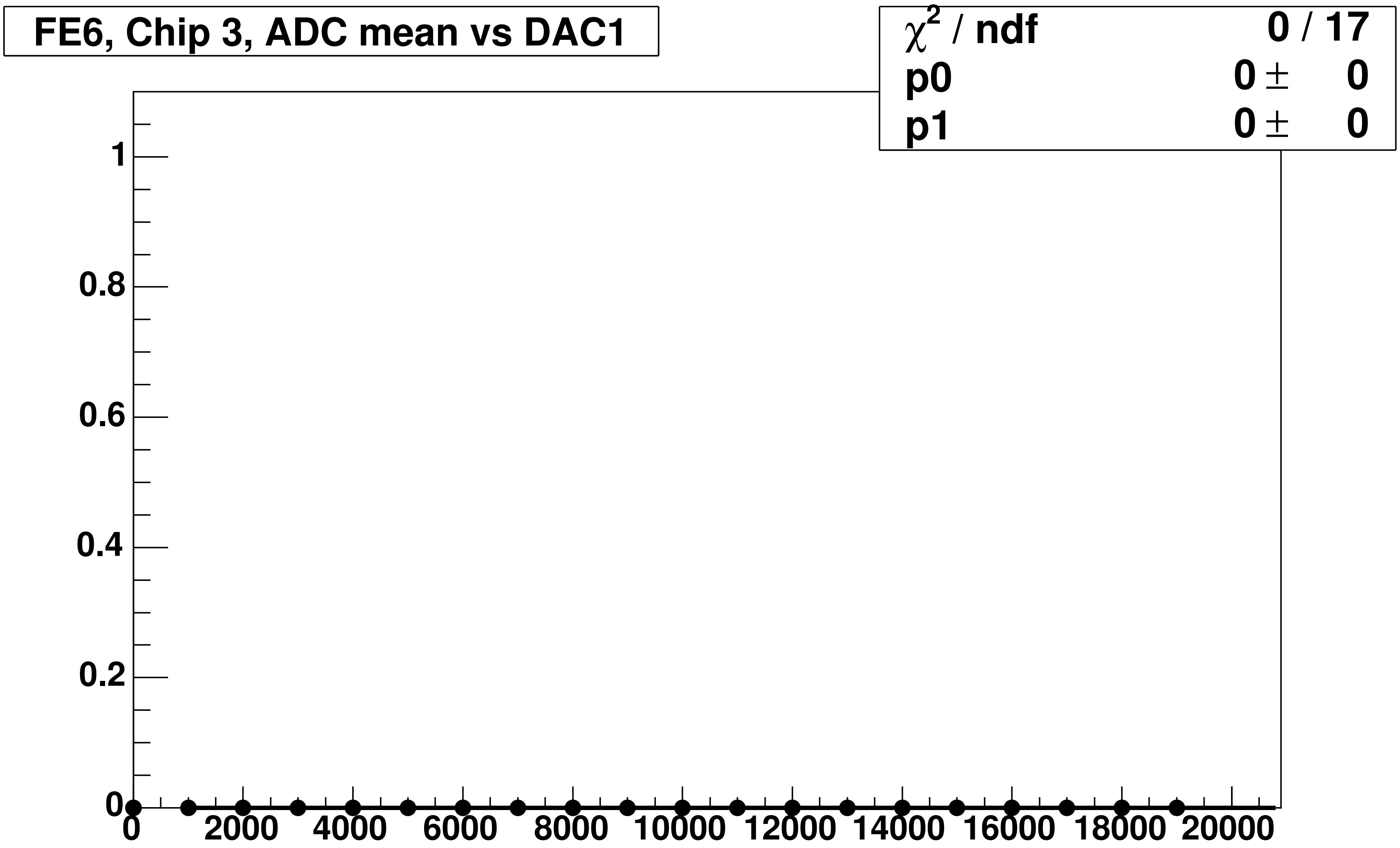
FE6, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
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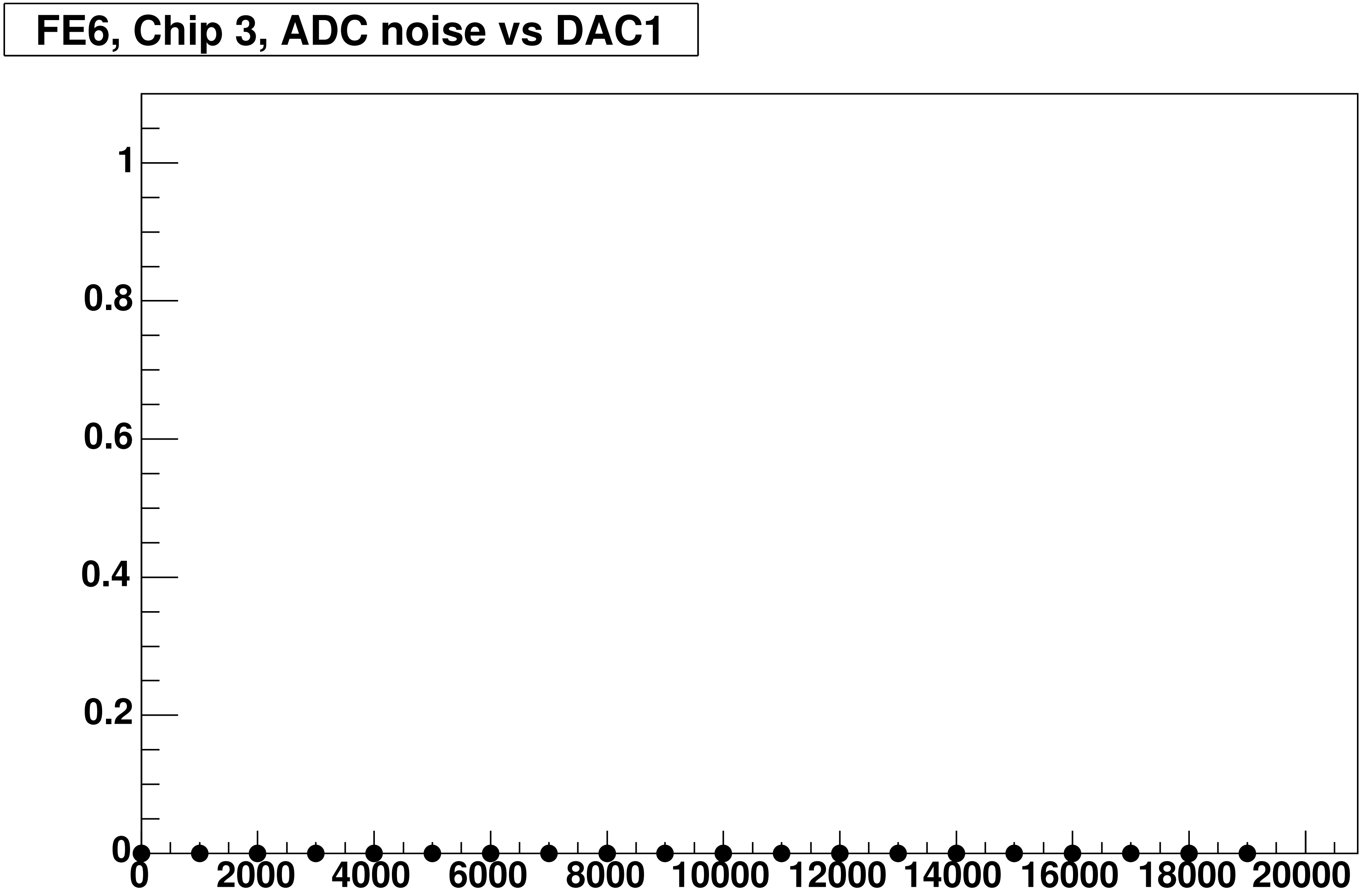
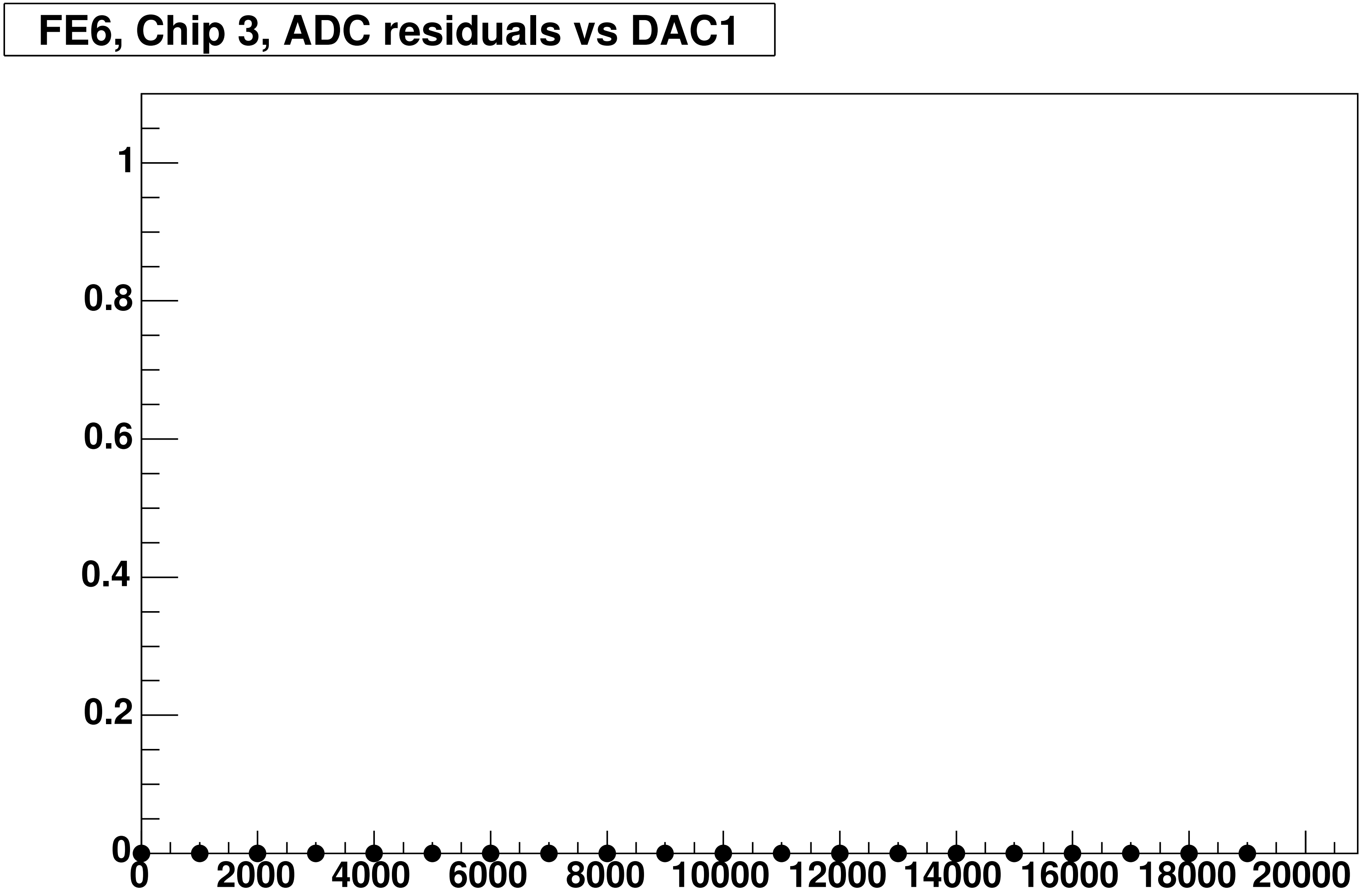
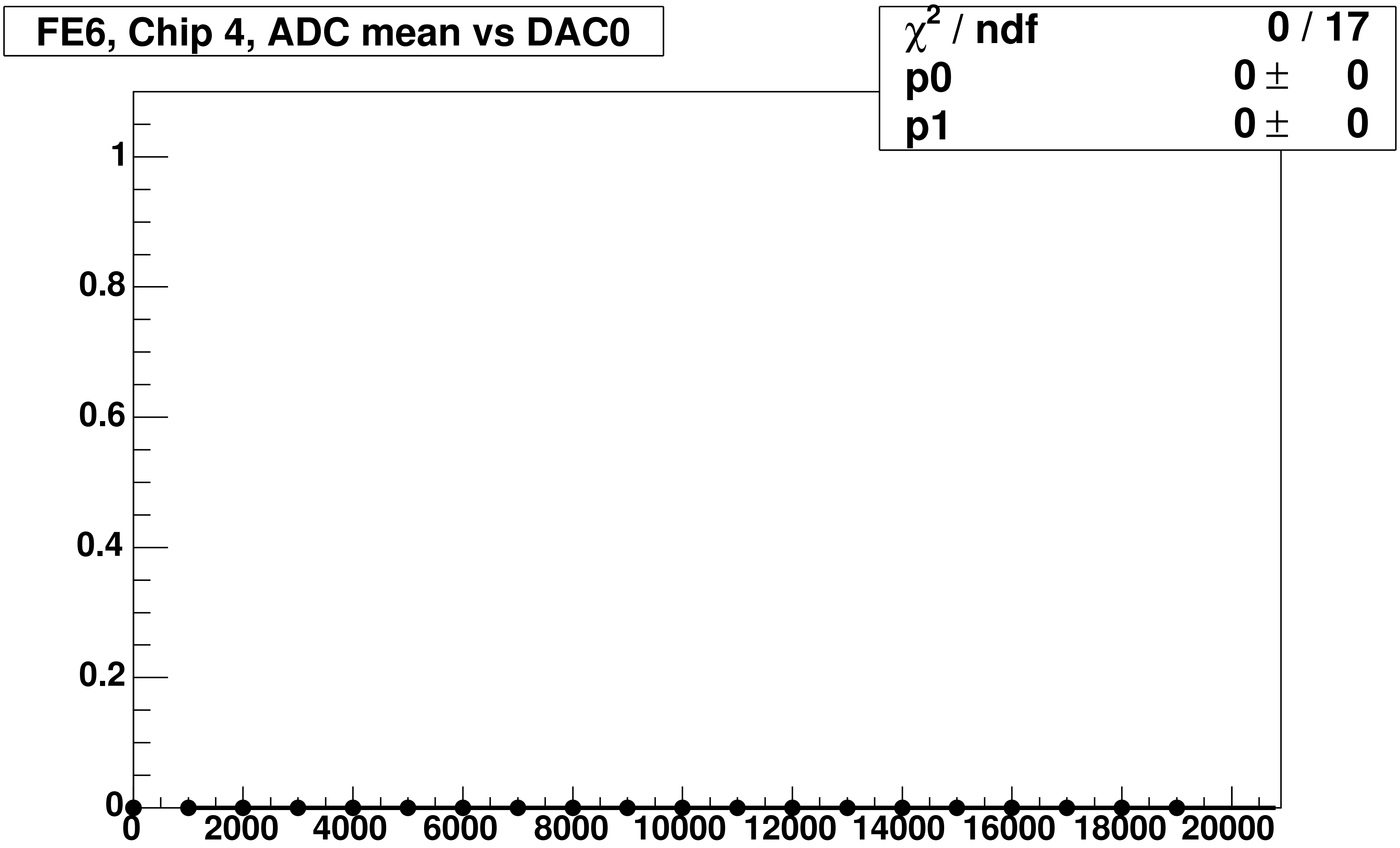
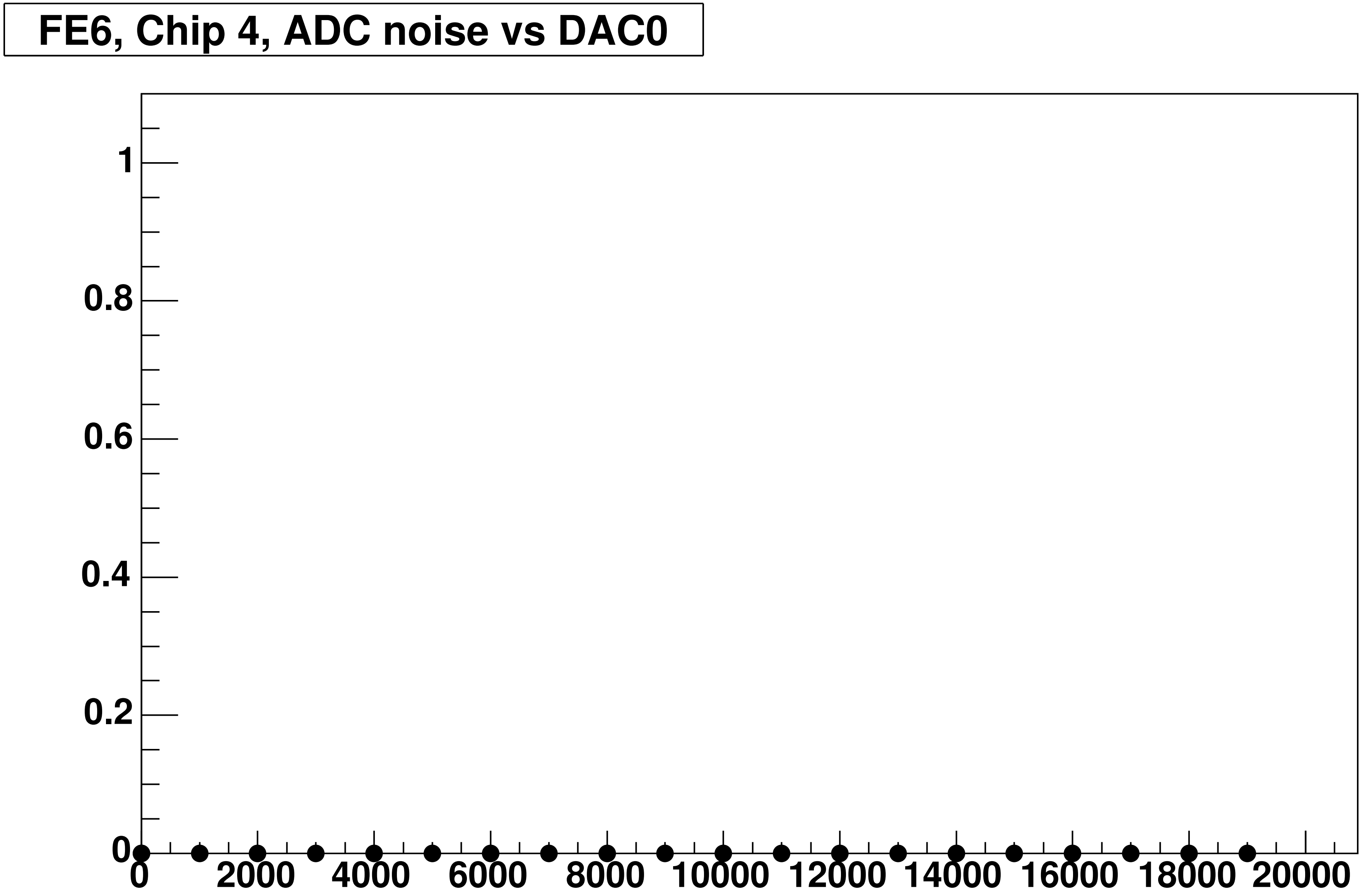
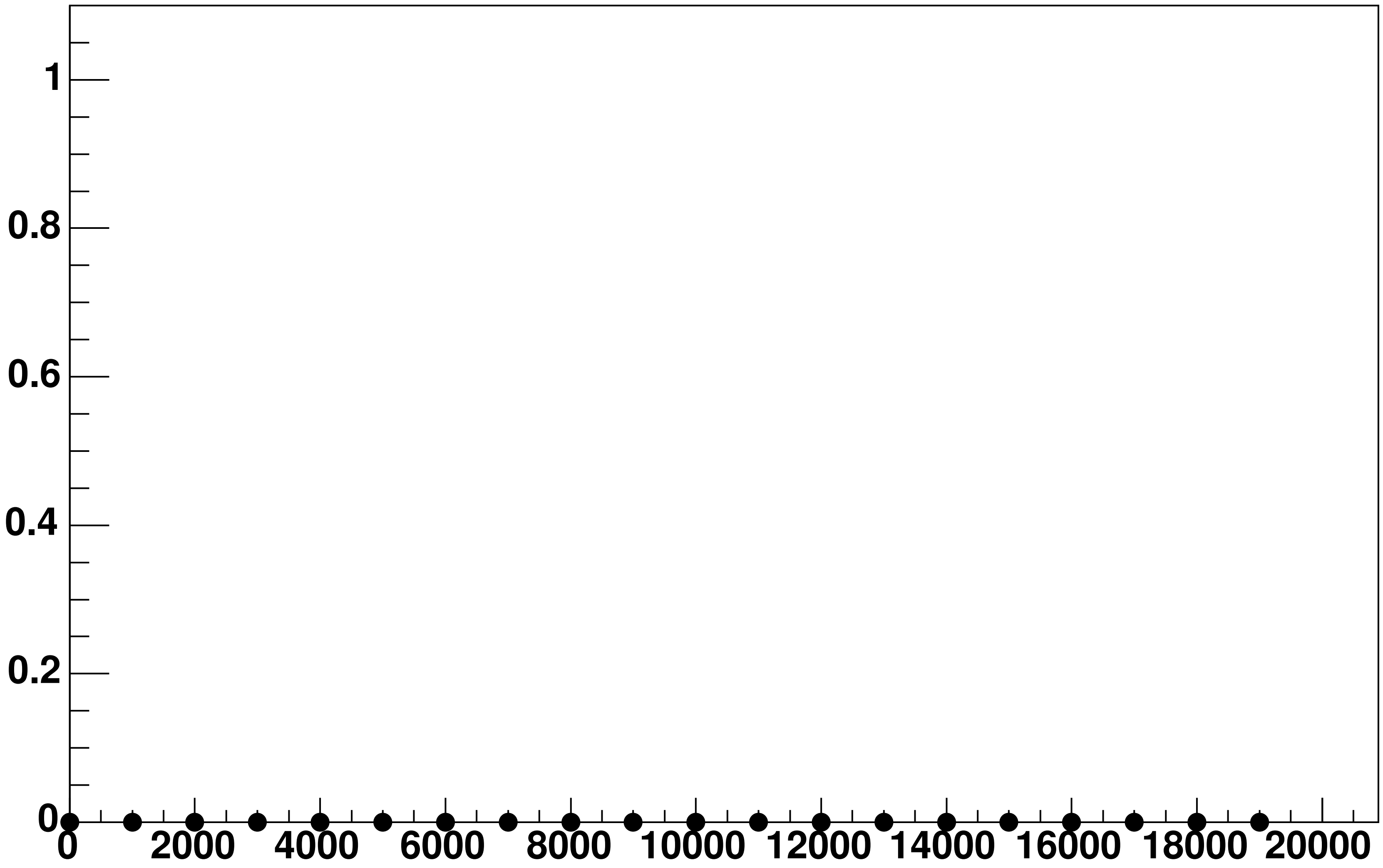

FE6, Chip 3, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

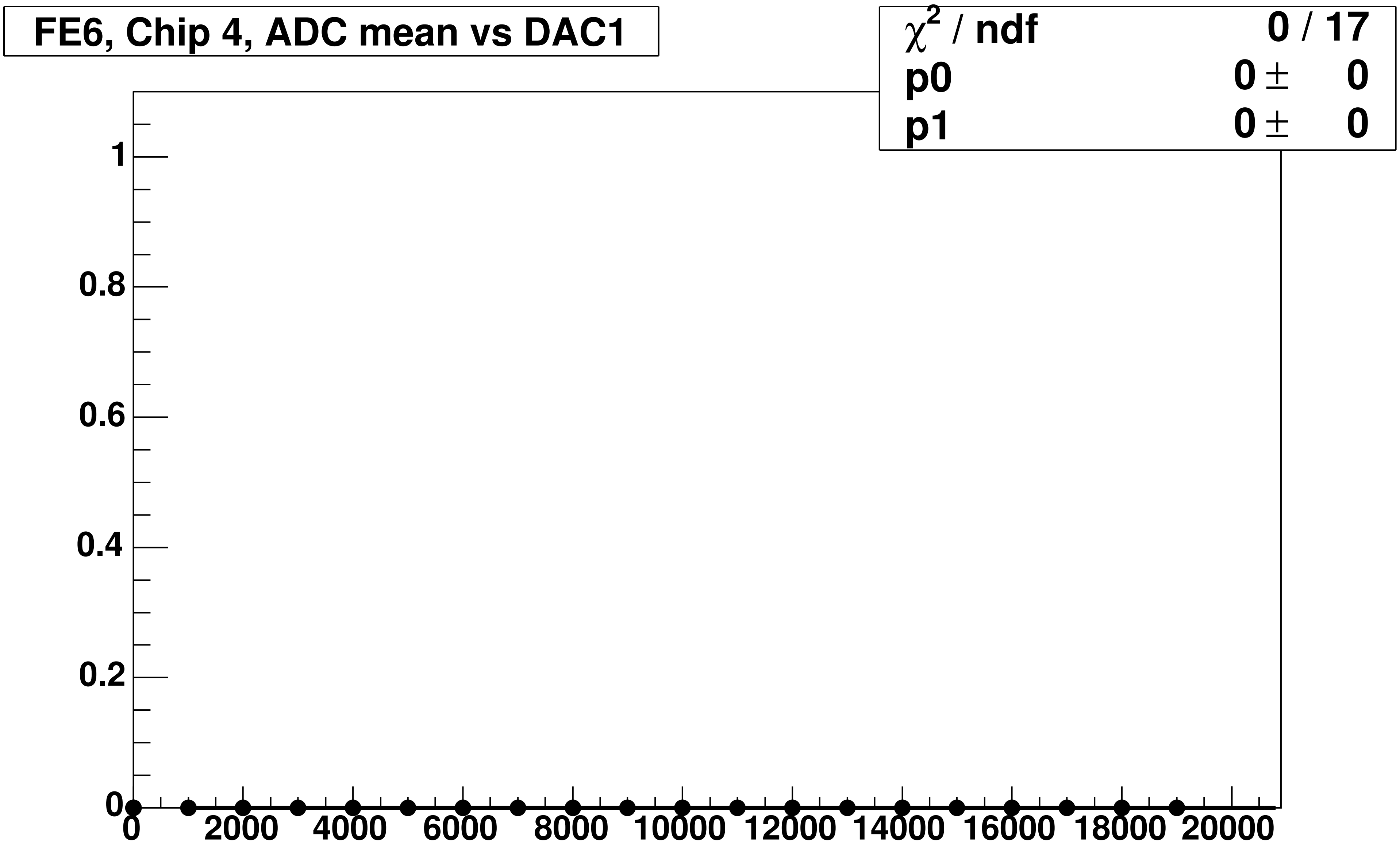

FE6, Chip 3, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

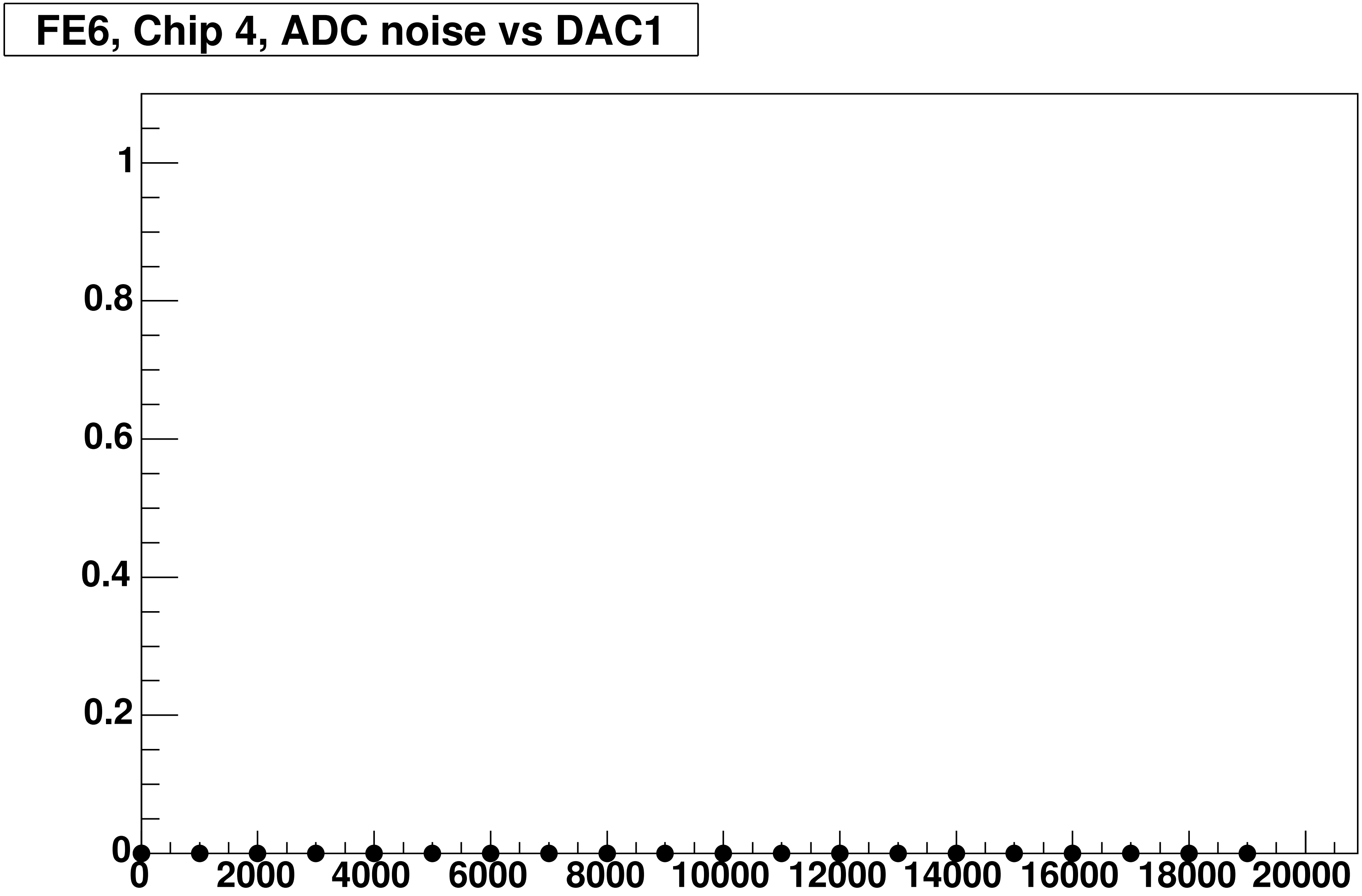

FE6, Chip 4, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 4, ADC noise vs DAC0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

FE6, Chip 4, ADC residuals vs DAC0




FE6, Chip 4, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 4, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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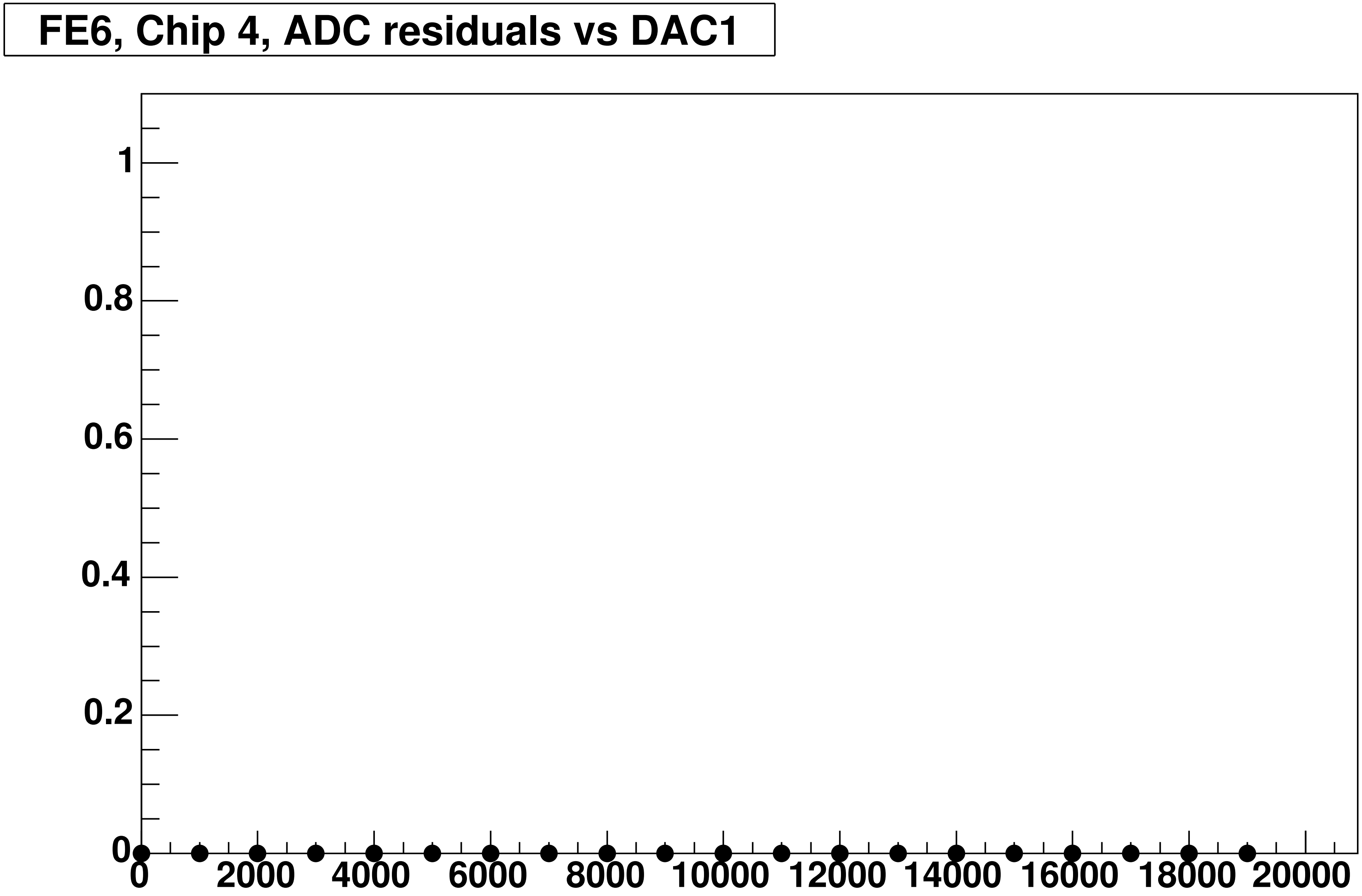
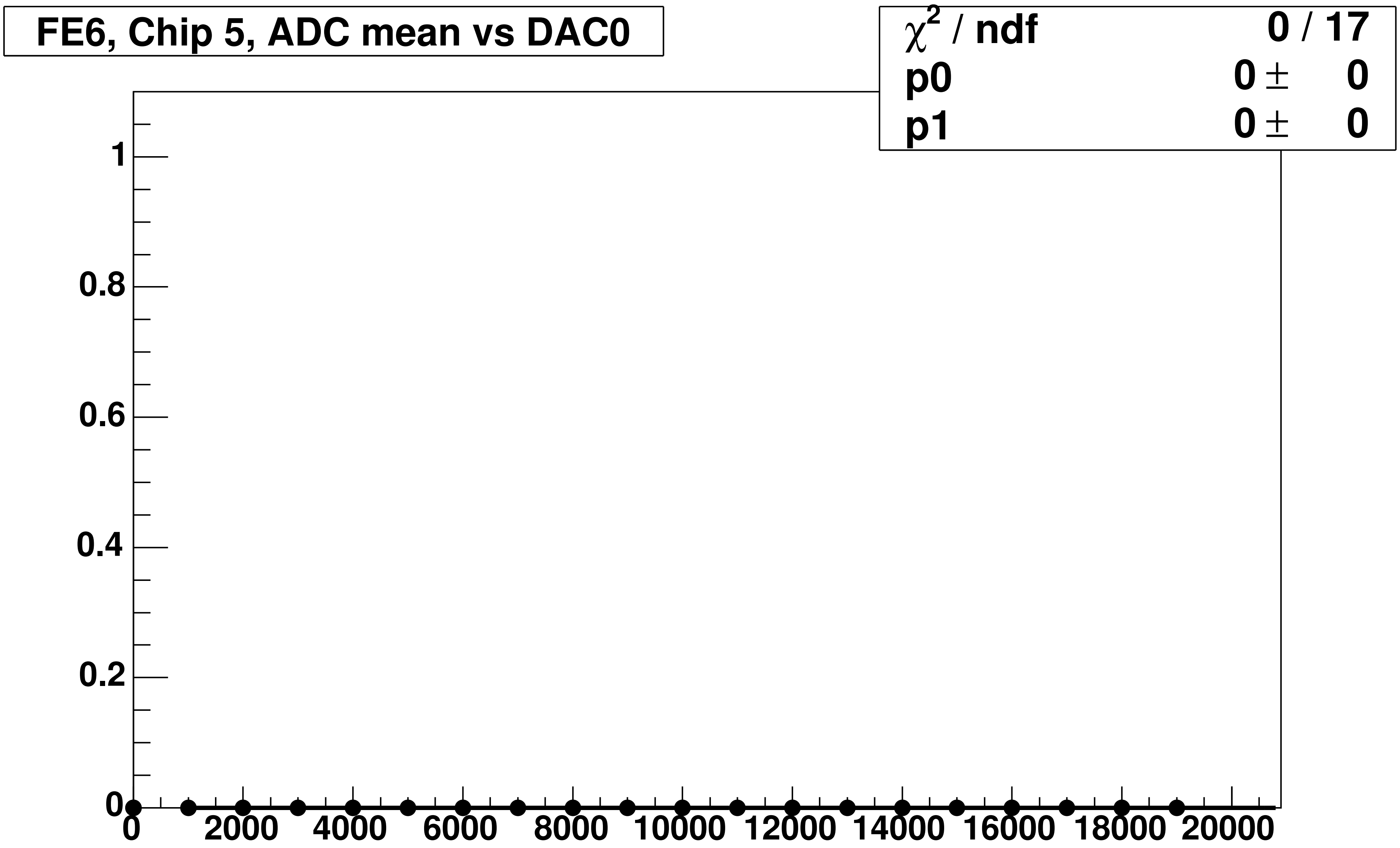
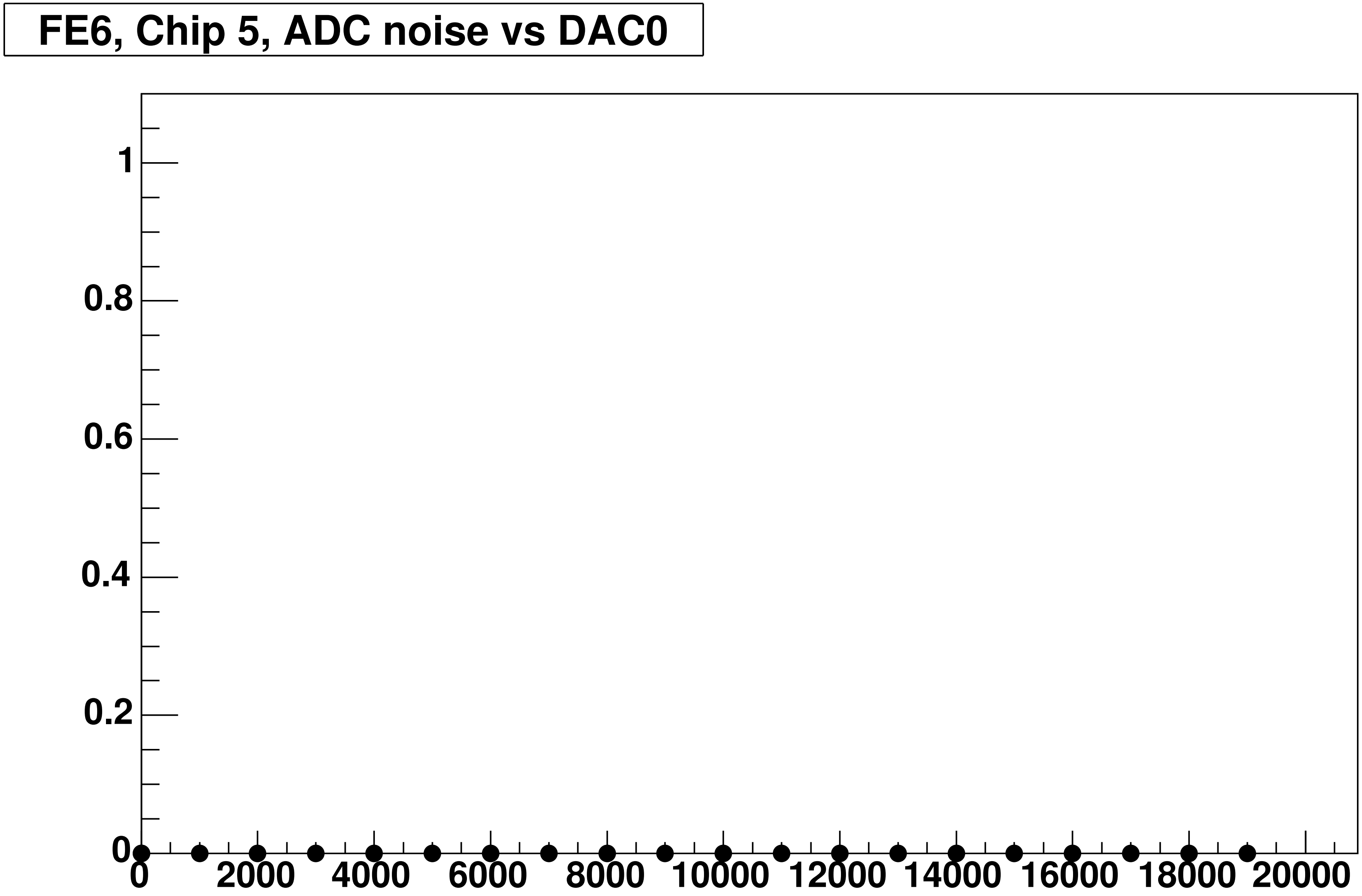
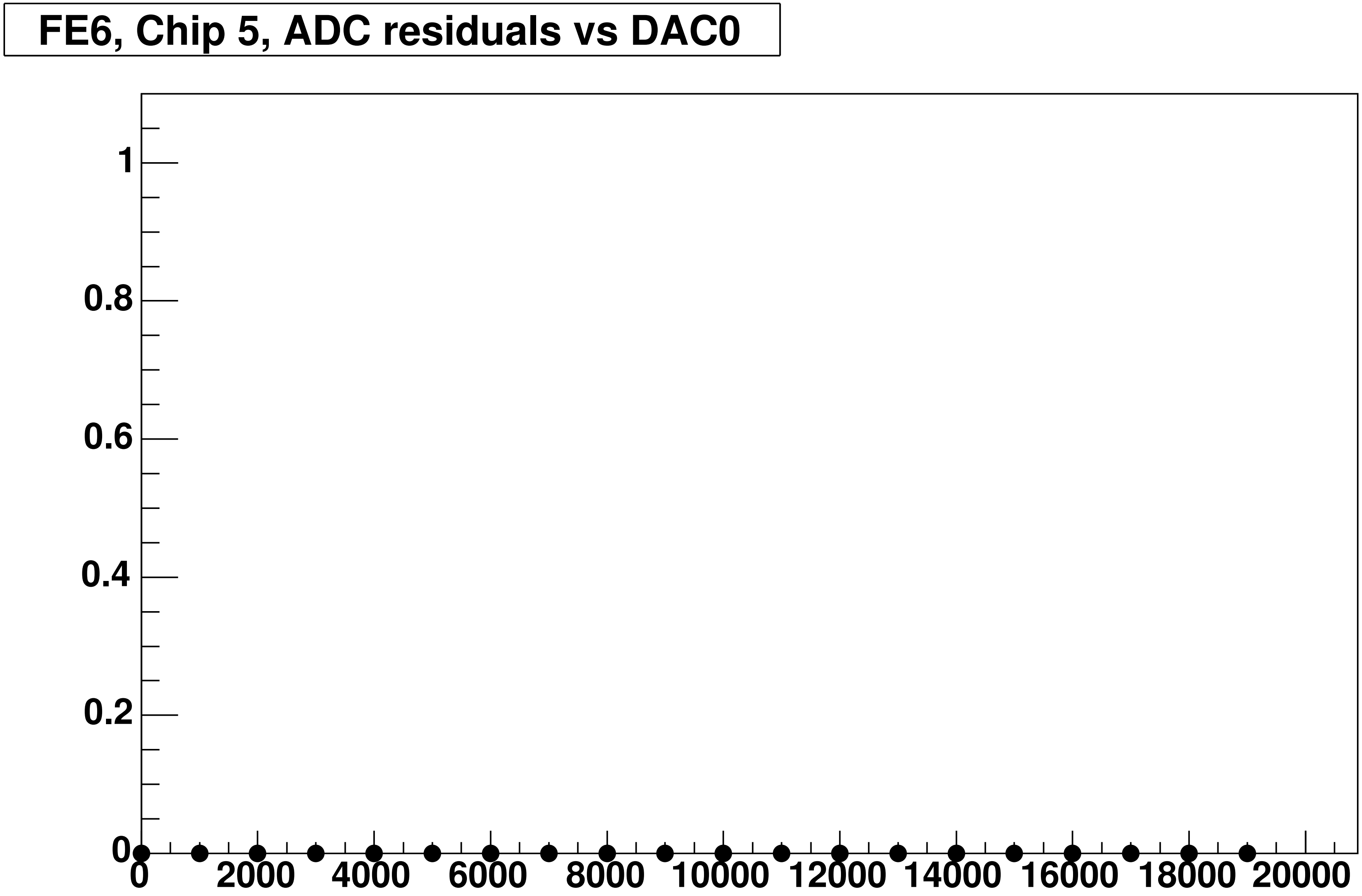
14000
16000
18000
20000

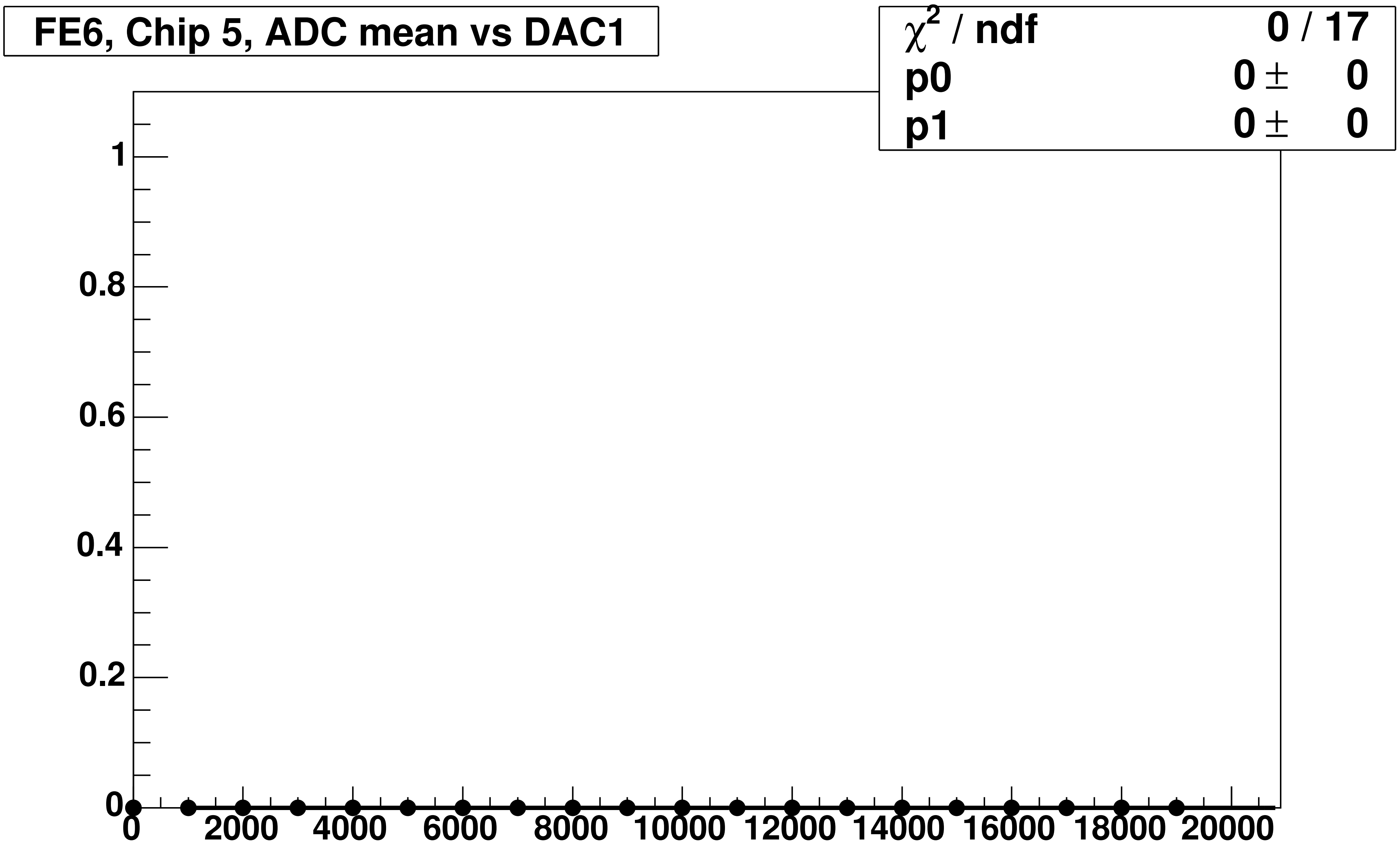

FE6, Chip 4, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

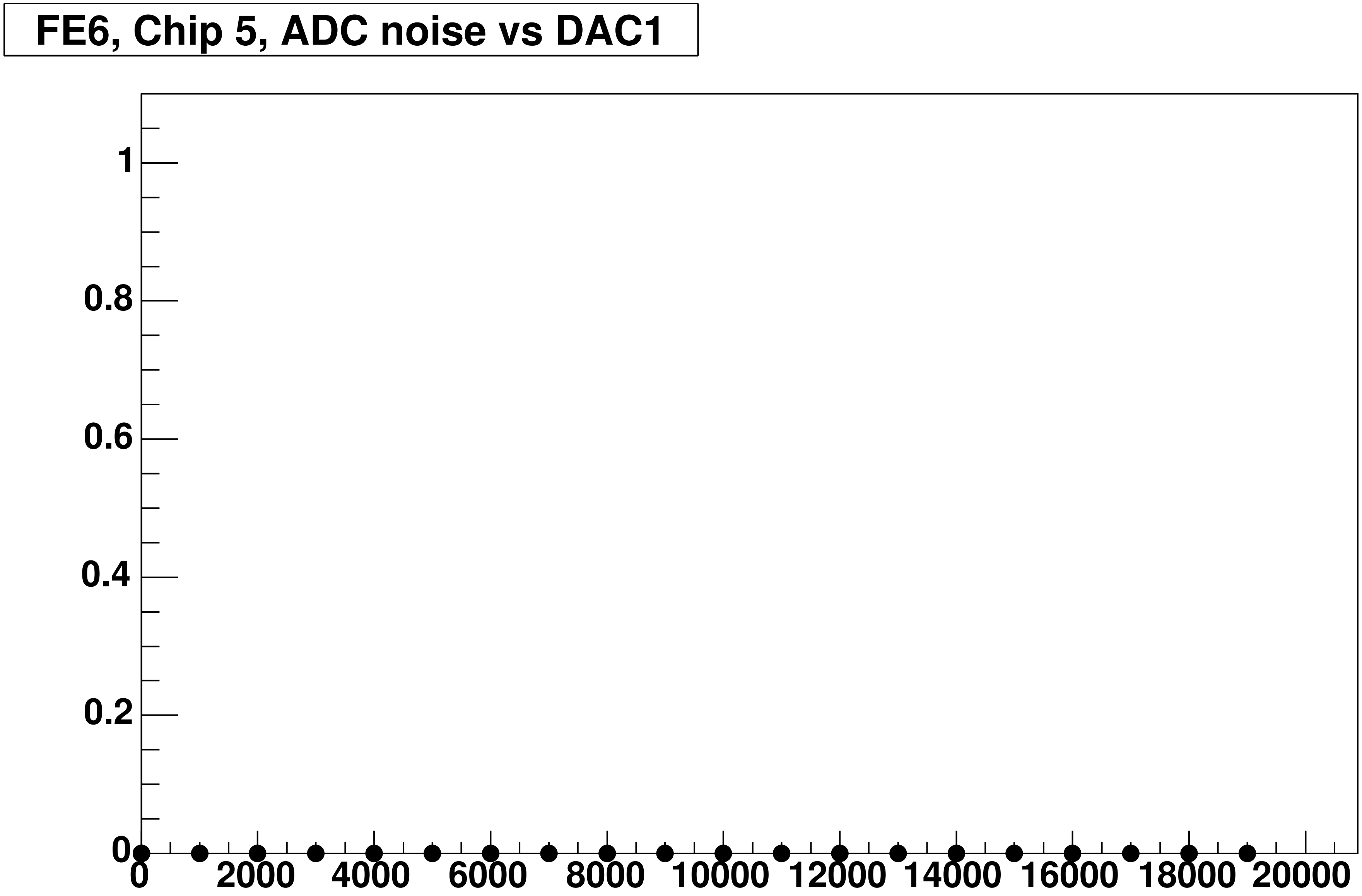


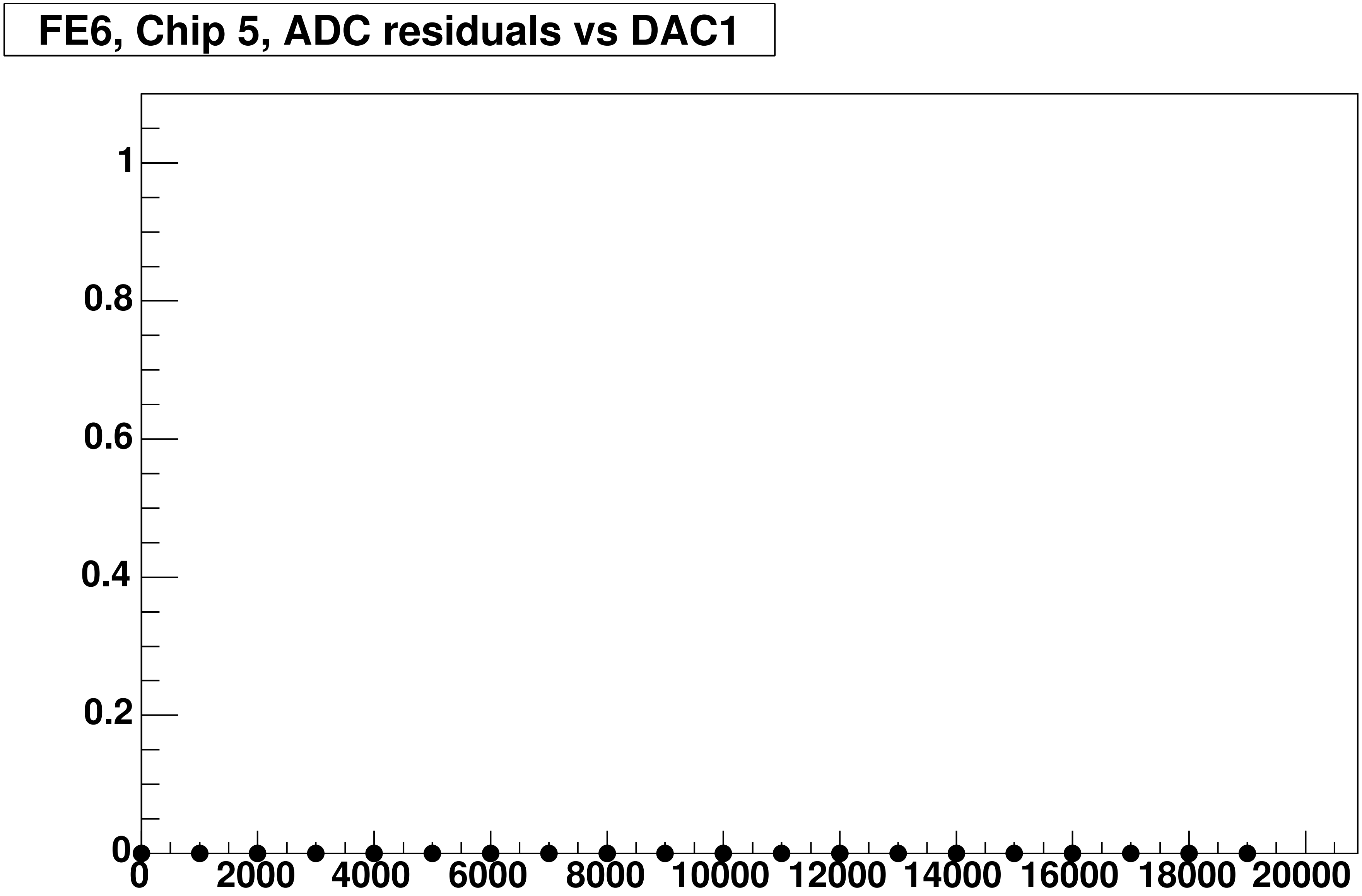
FE6, Chip 5, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 5, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 5, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 5, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 5, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 5, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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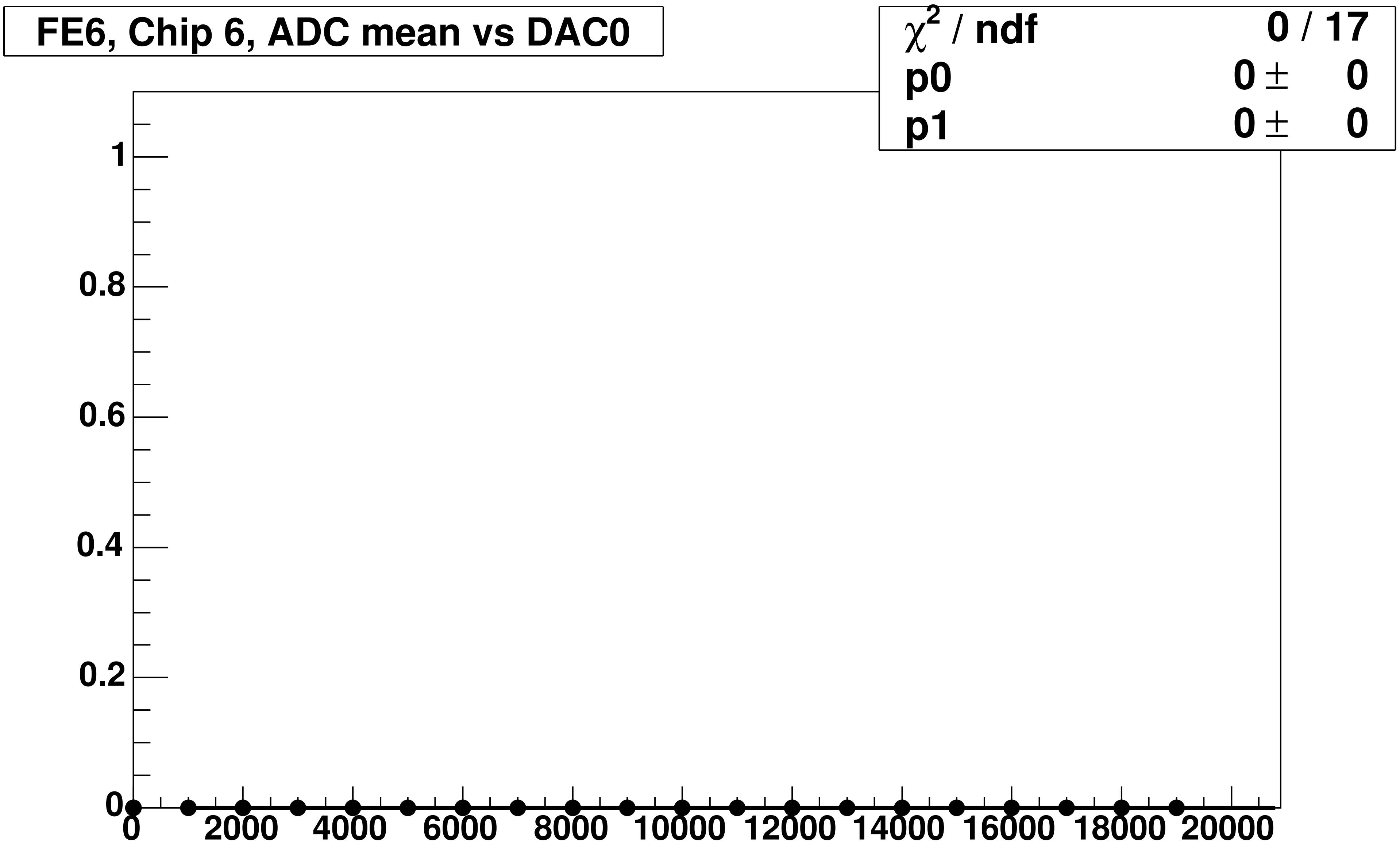
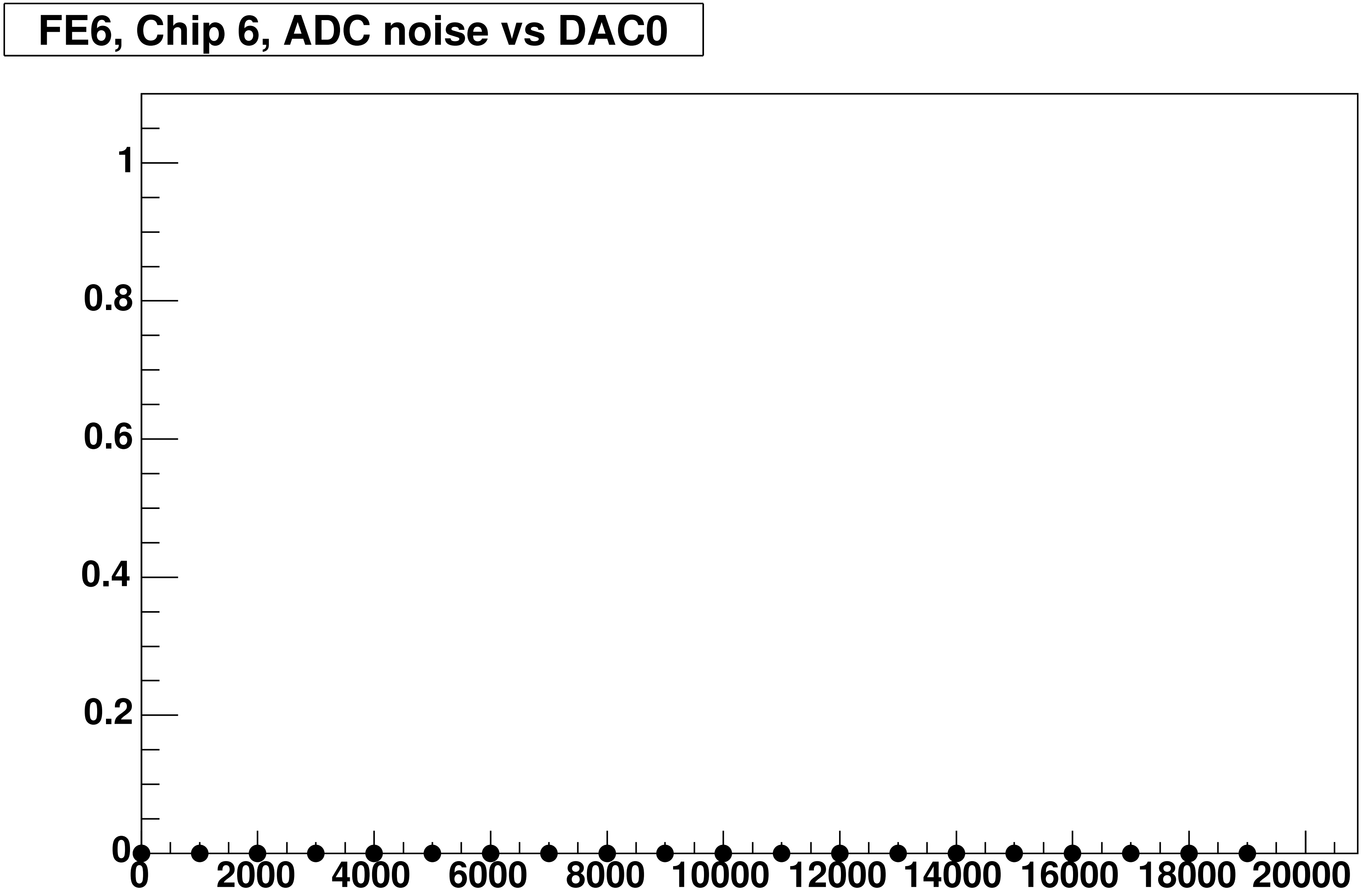
14000
16000
18000
20000



FE6, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 6, ADC noise vs DAC0
1
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0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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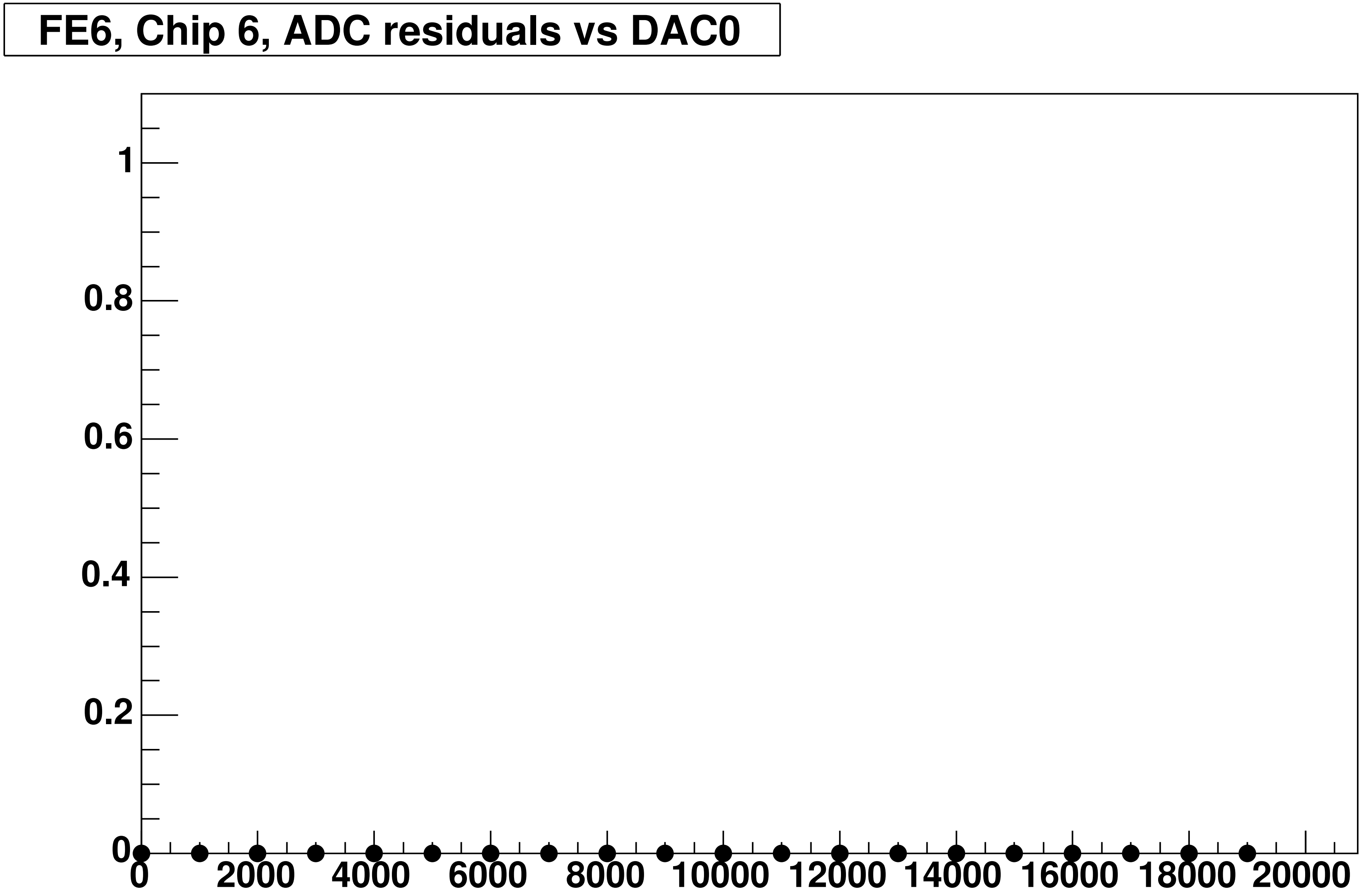
14000
16000
18000
20000


FE6, Chip 6, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
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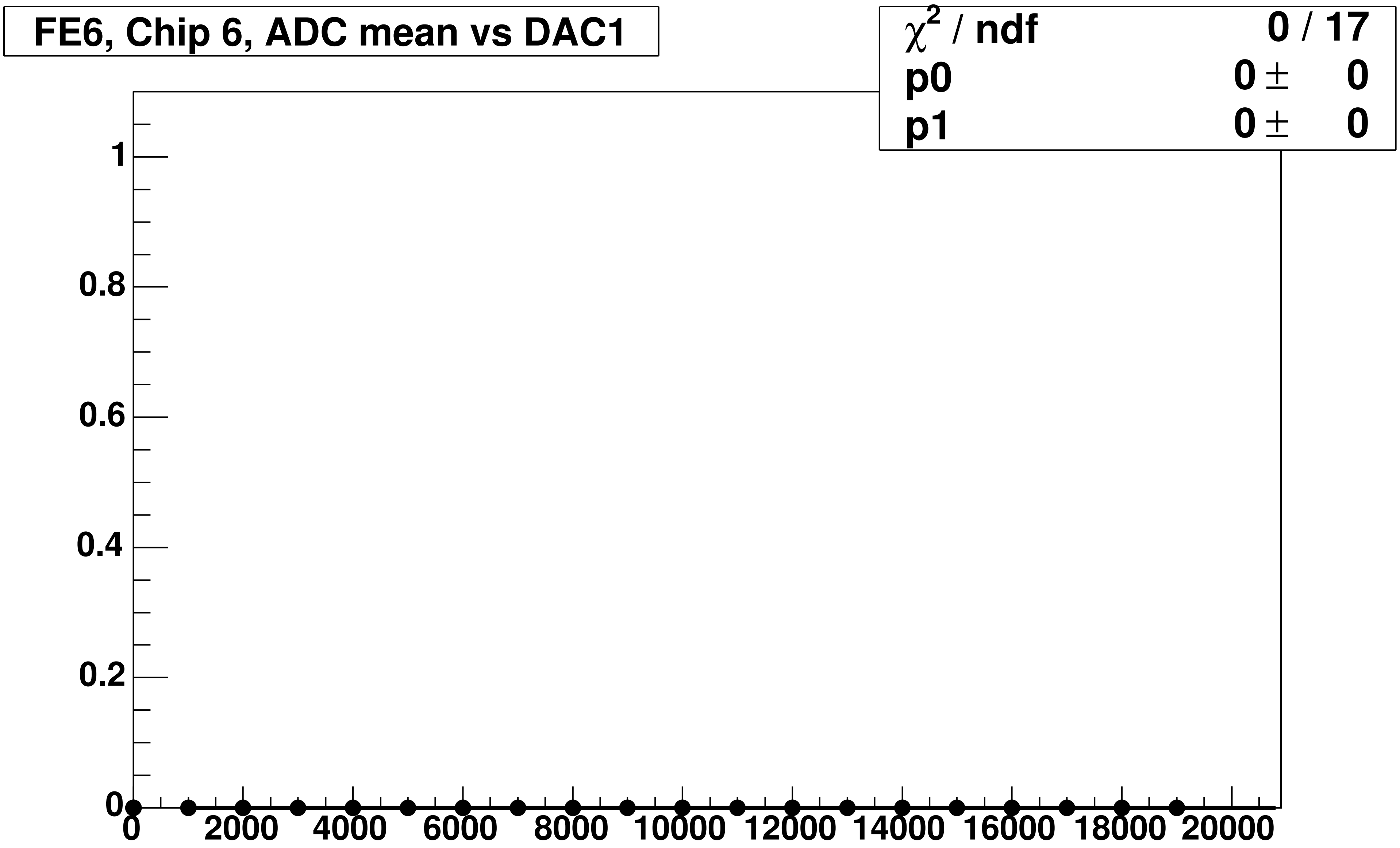
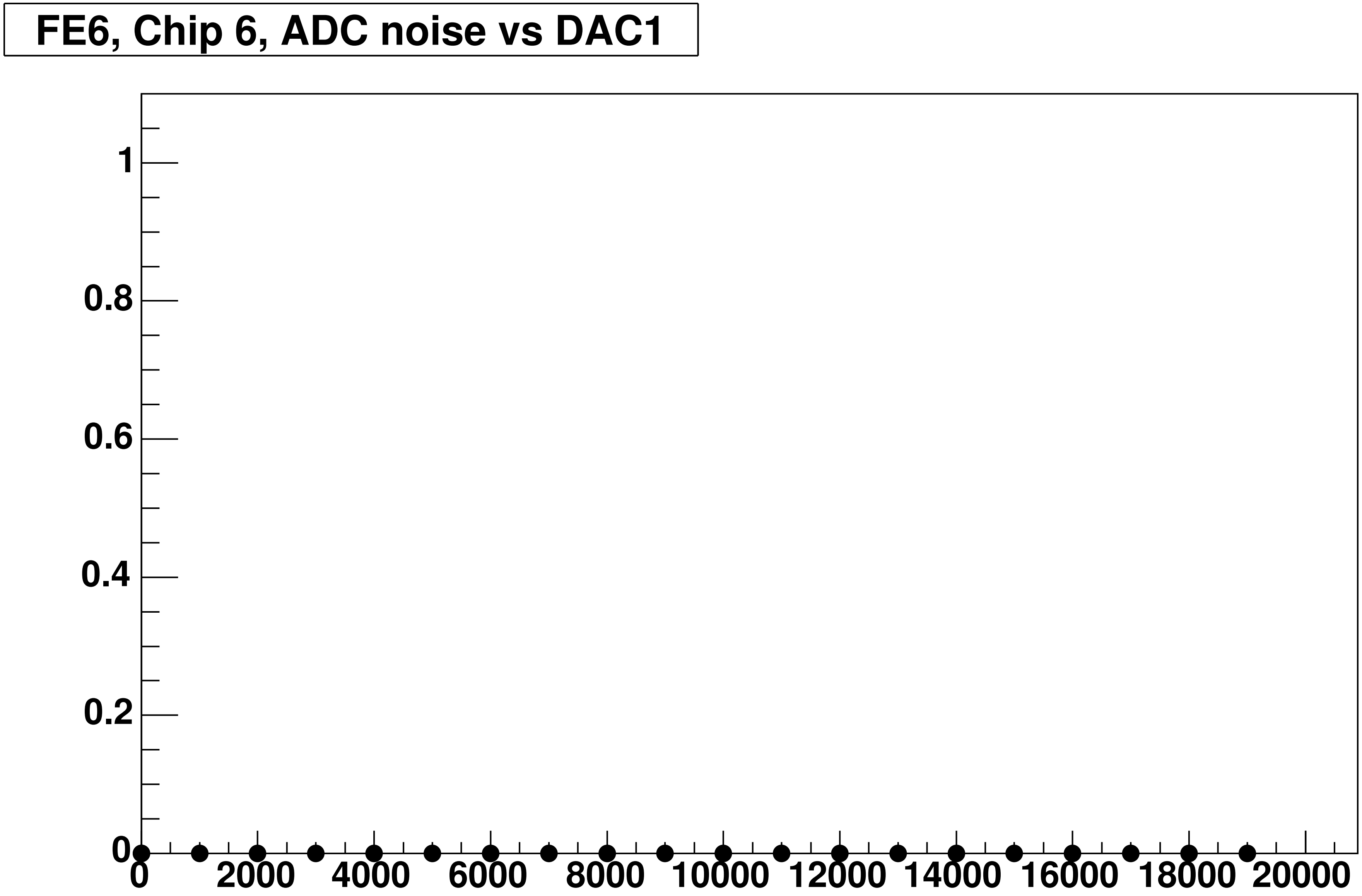
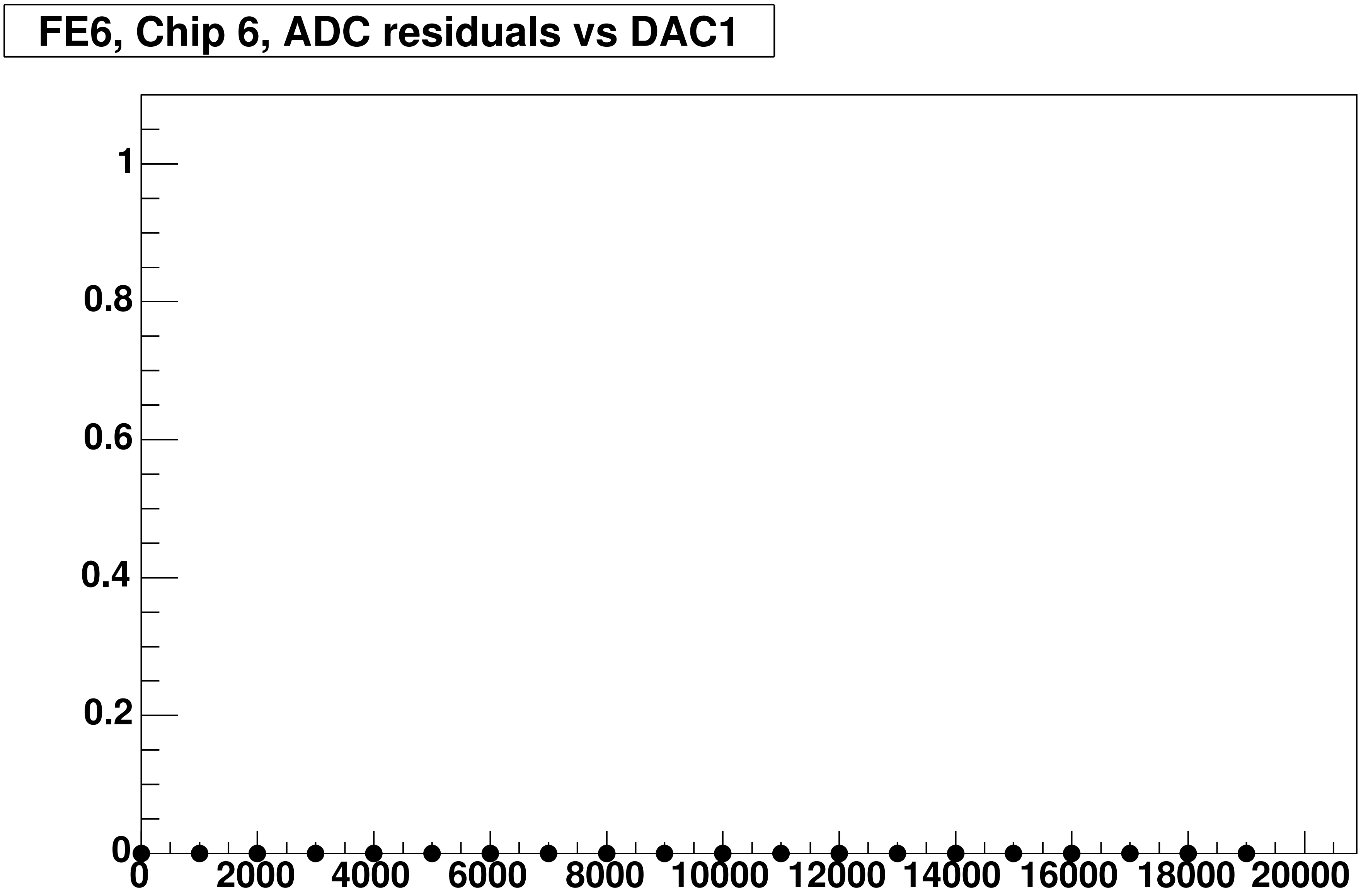
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 6, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 6, ADC residuals vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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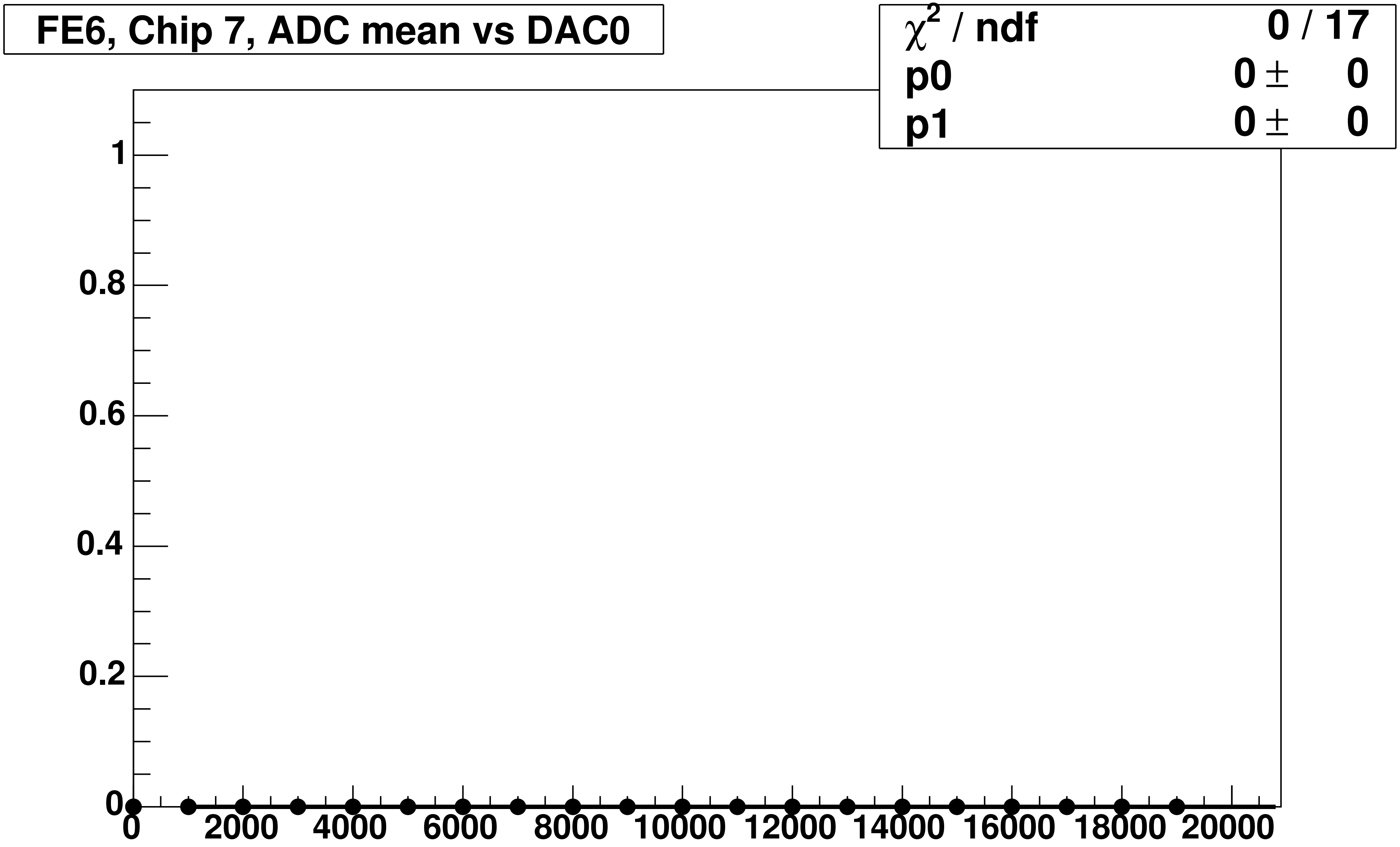
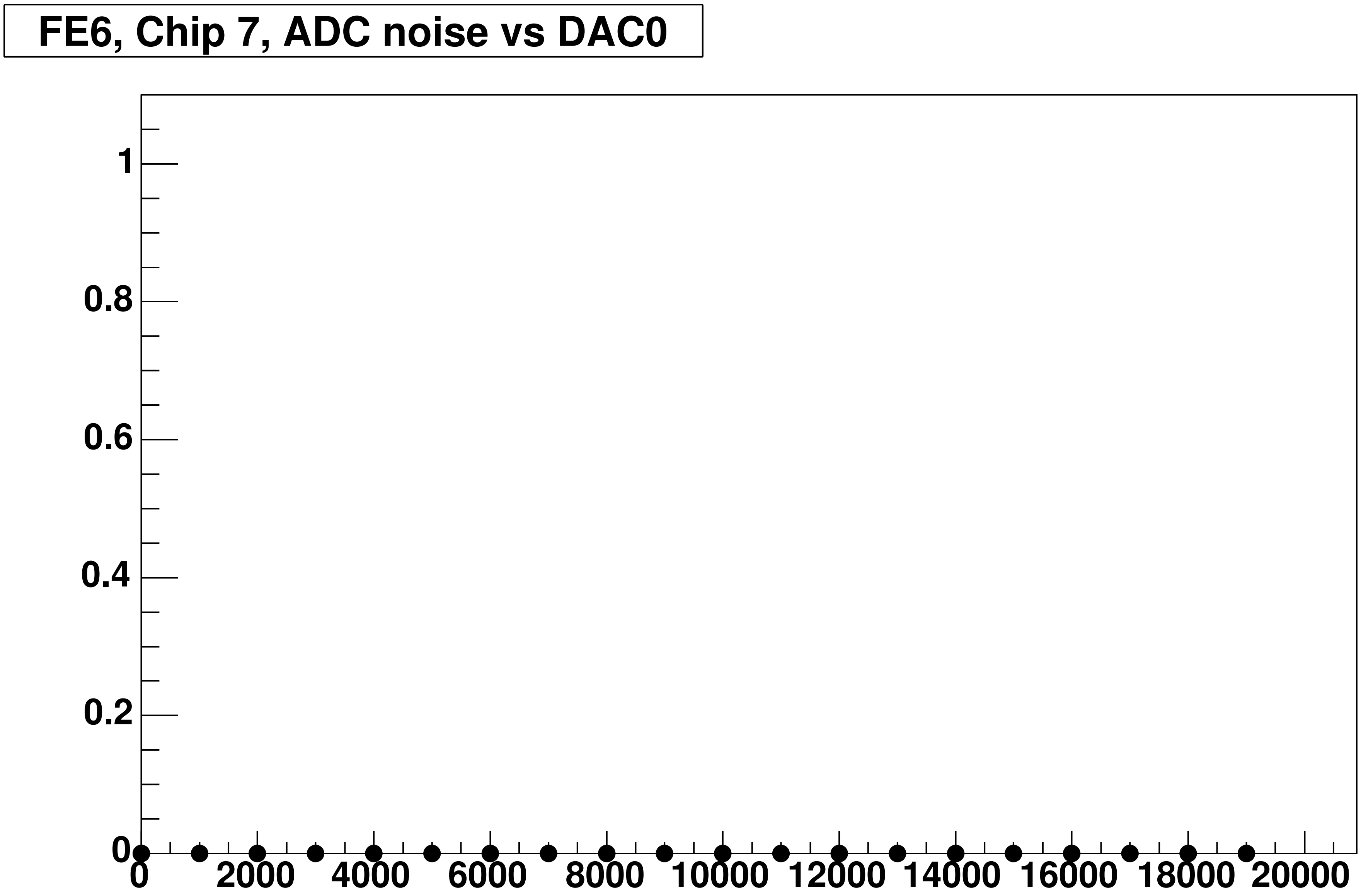
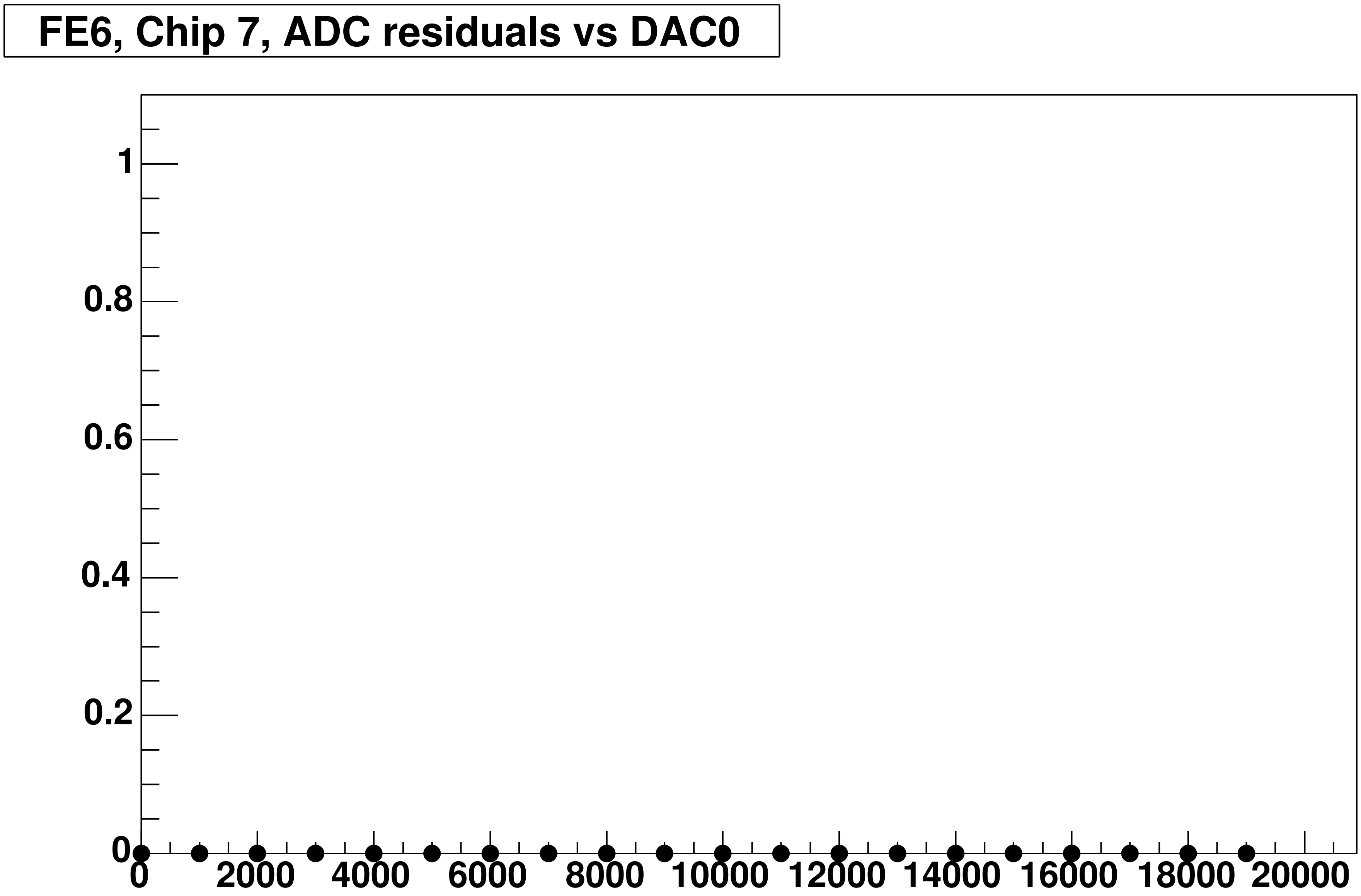
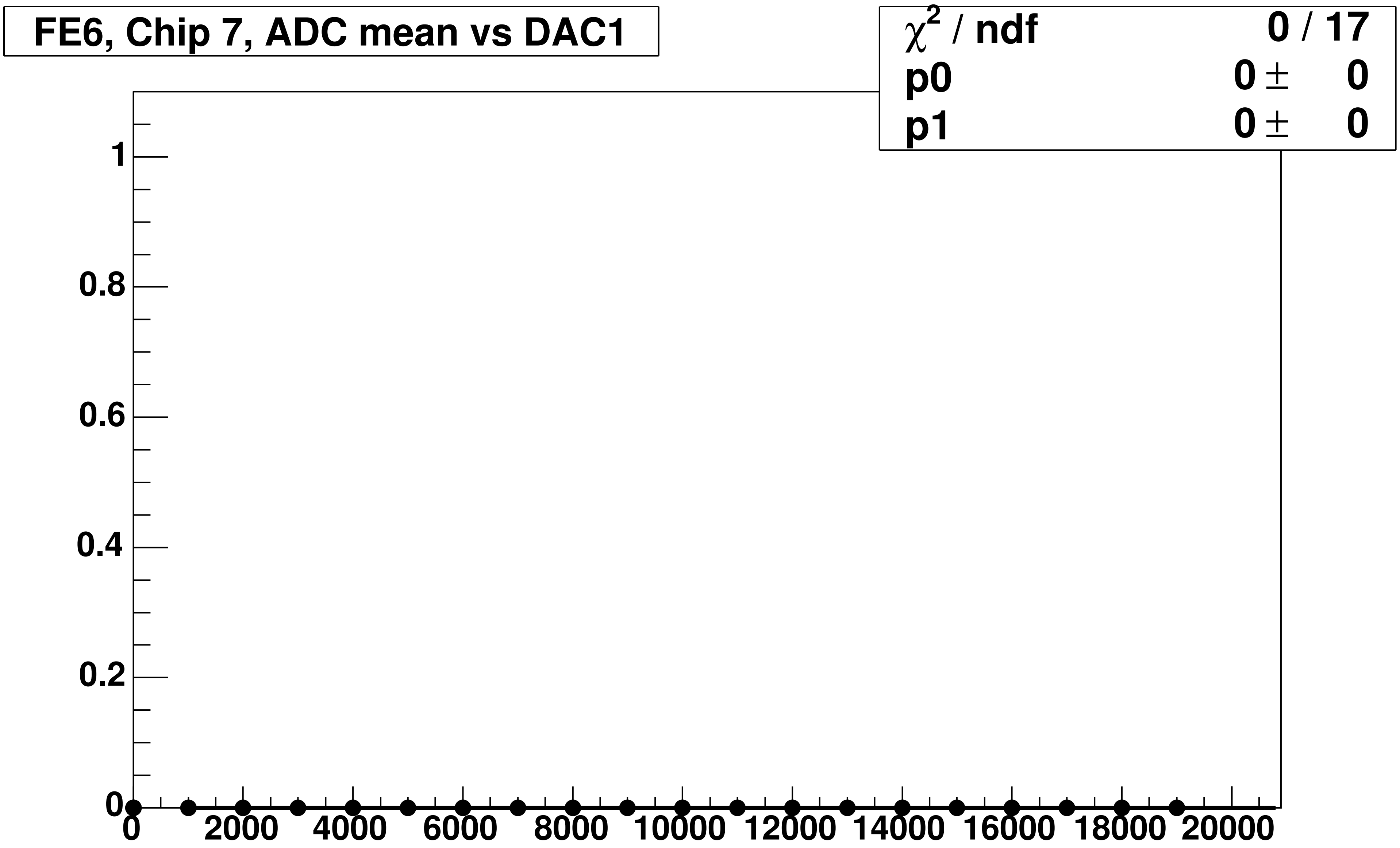
14000
16000
18000
20000

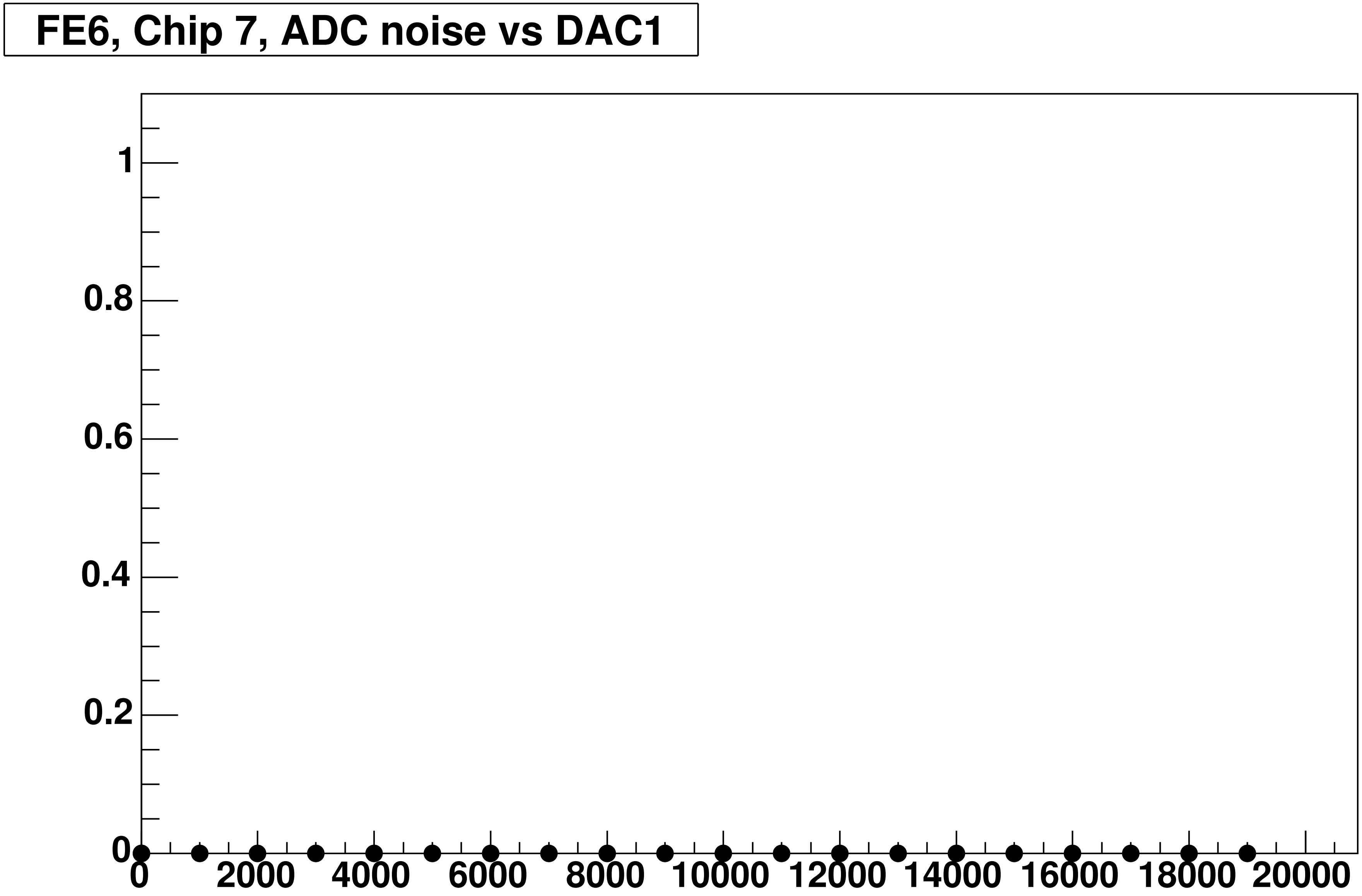

FE6, Chip 7, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



FE6, Chip 7, ADC noise vs DAC0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 7, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



FE6, Chip 7, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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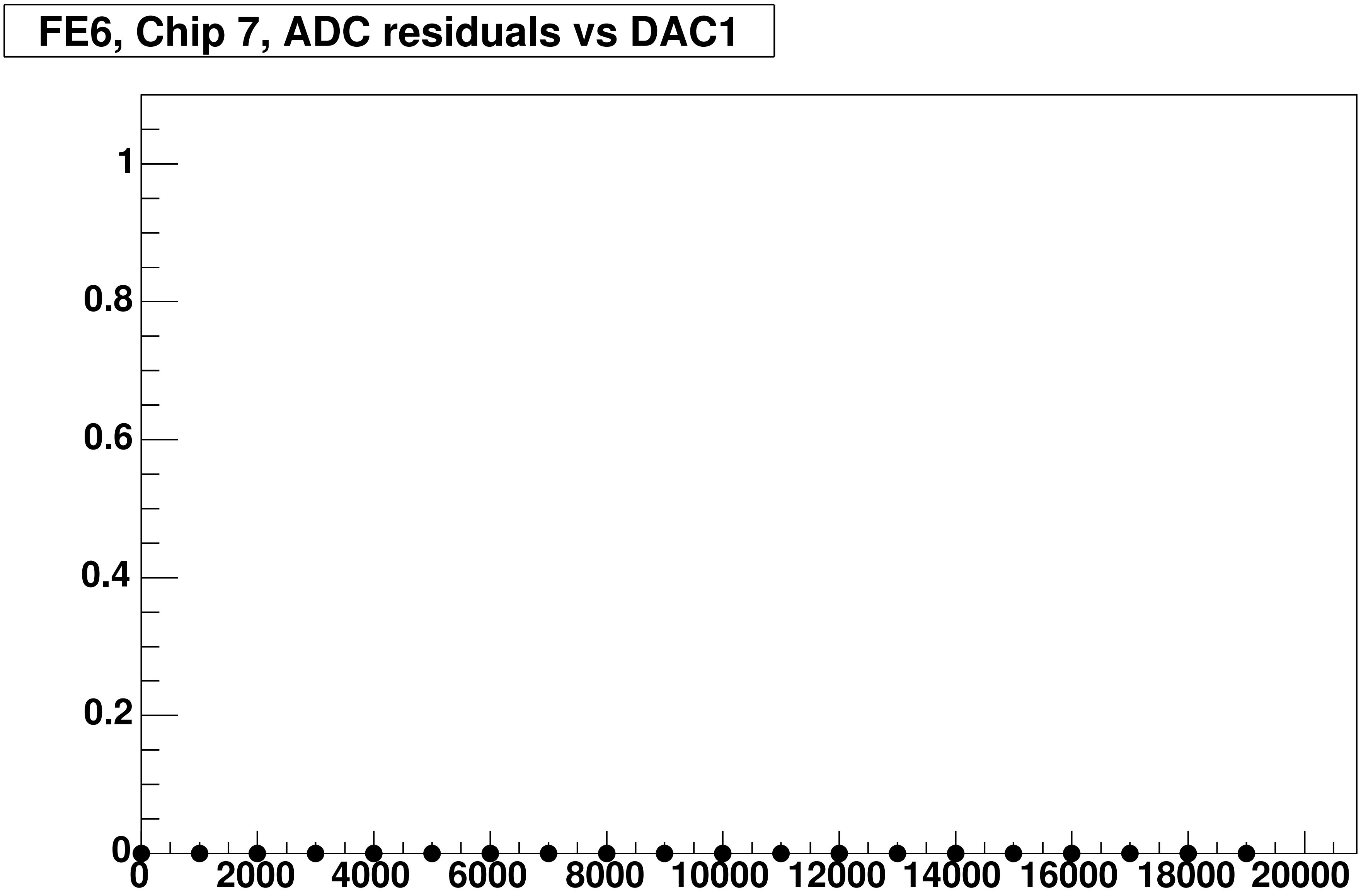
14000
16000
18000
20000


FE6, Chip 7, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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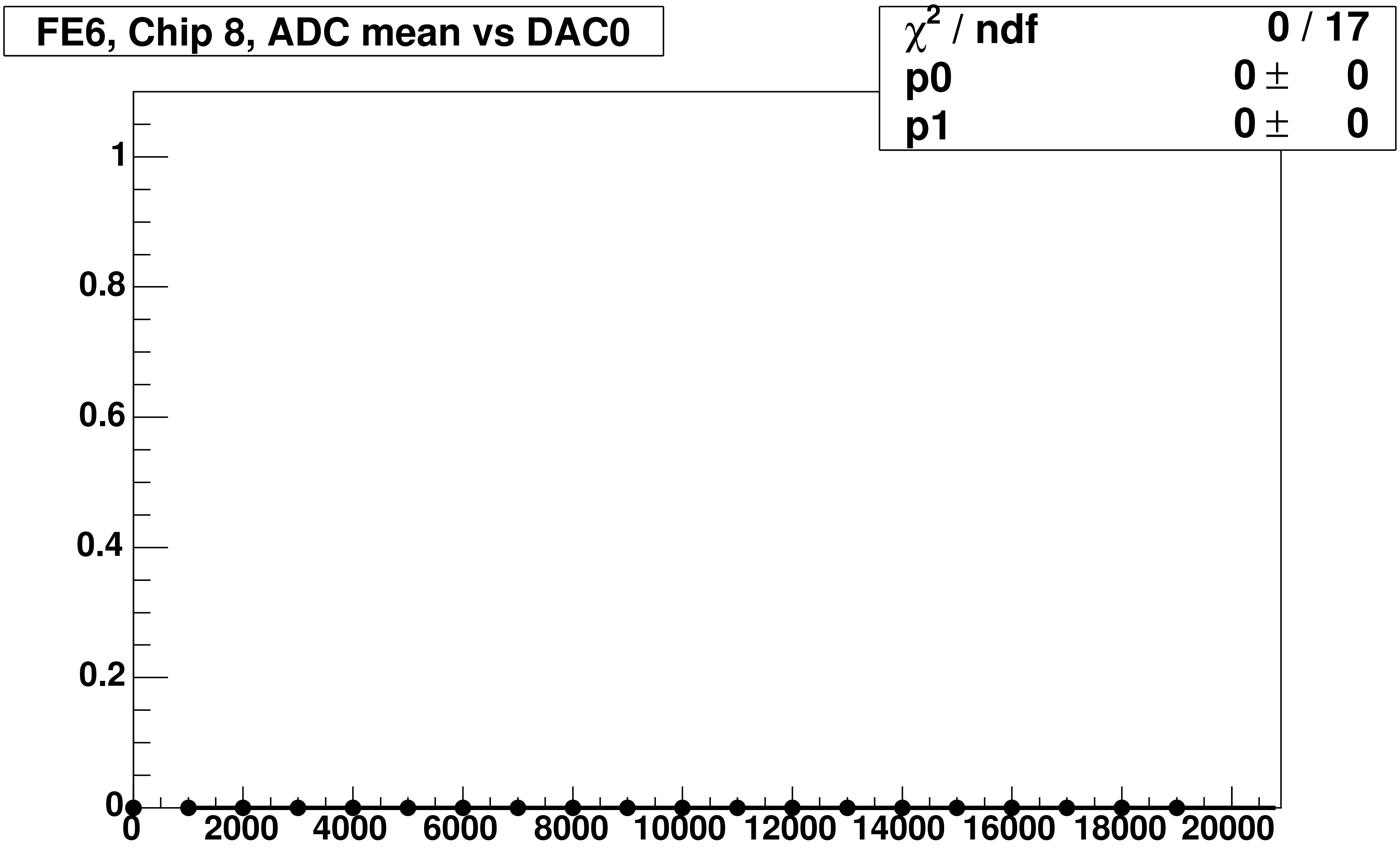
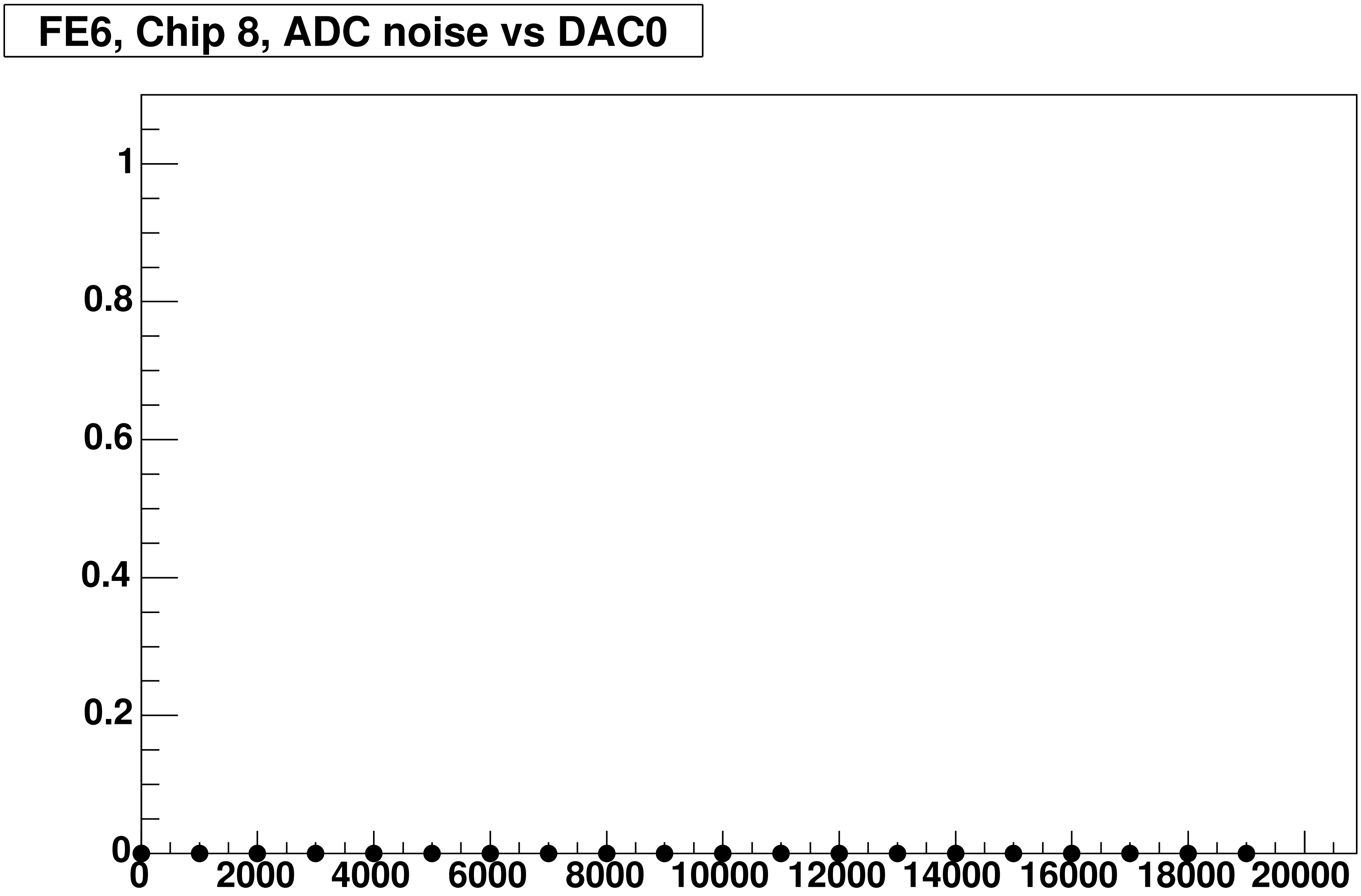
14000
16000
18000
20000


FE6, Chip 8, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 8, ADC noise vs DAC0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
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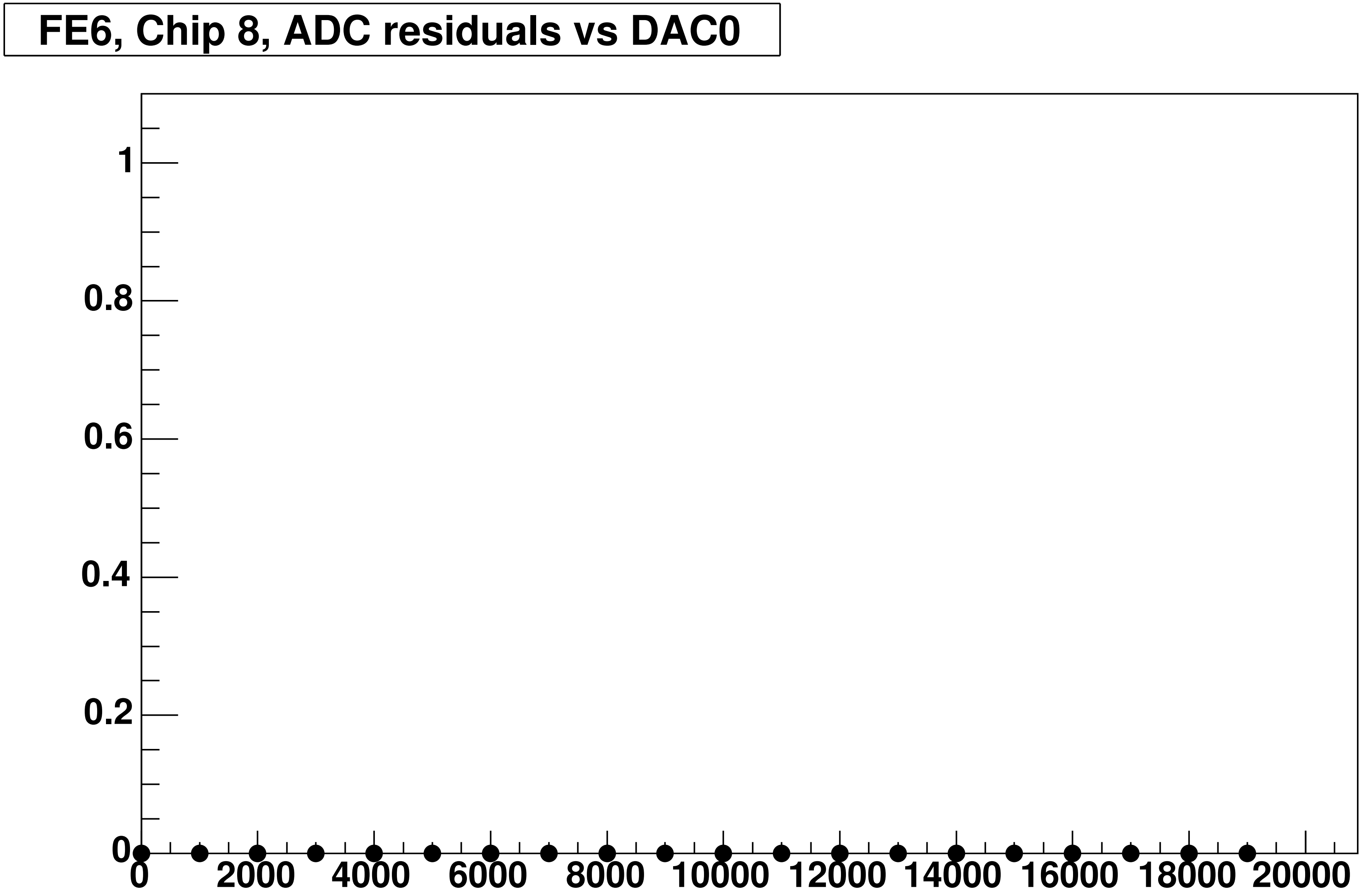

FE6, Chip 8, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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14000
16000
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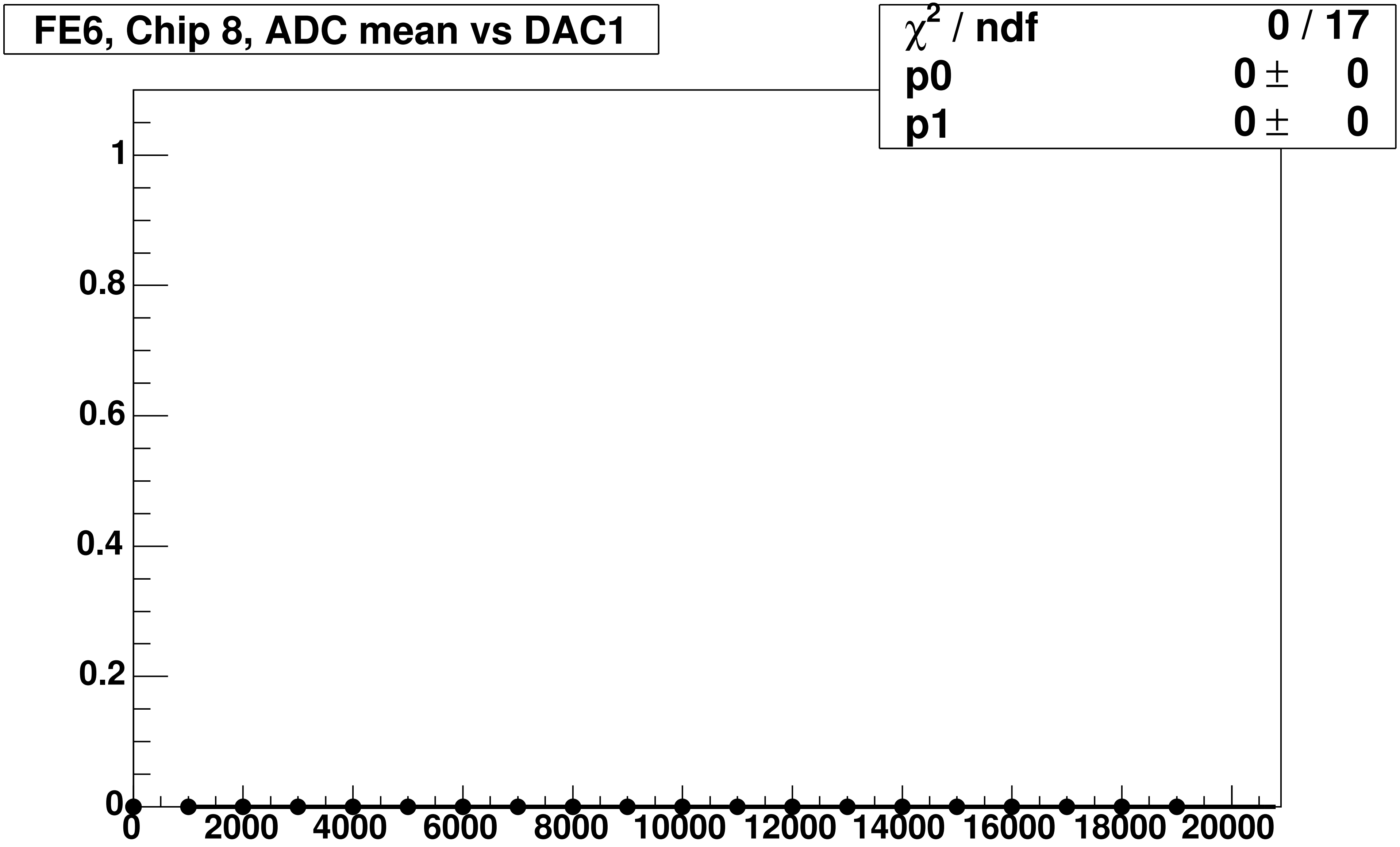
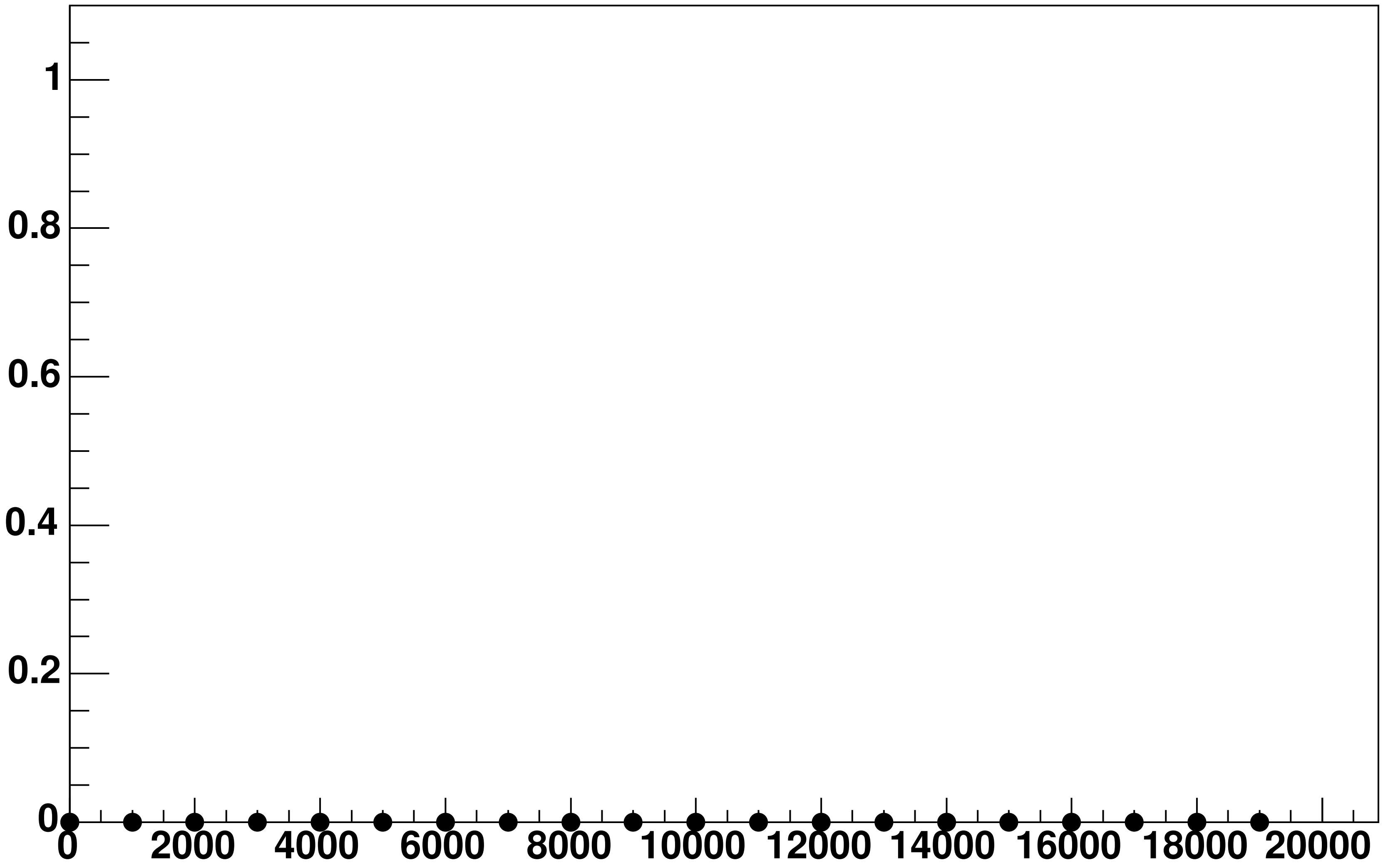
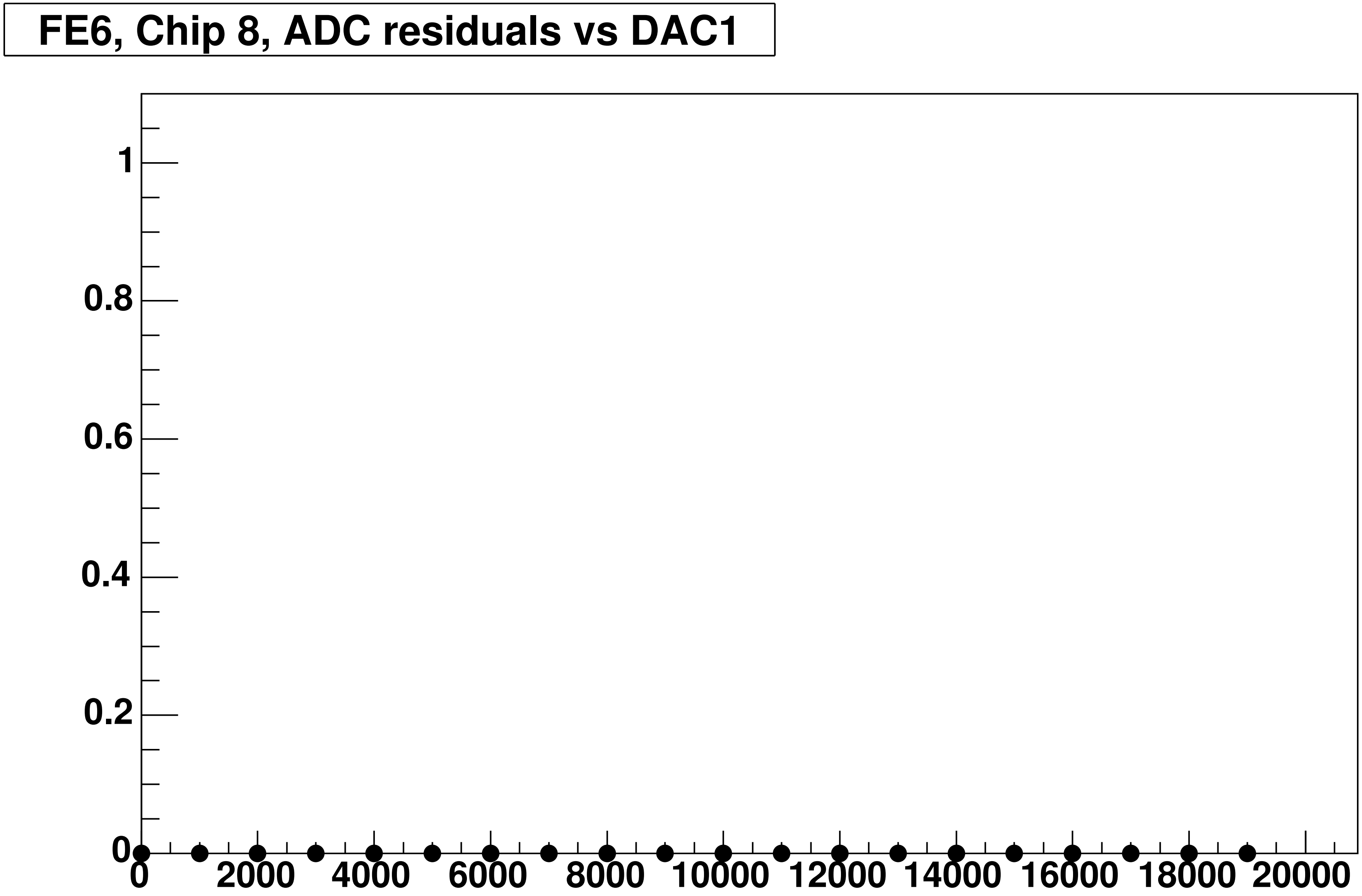
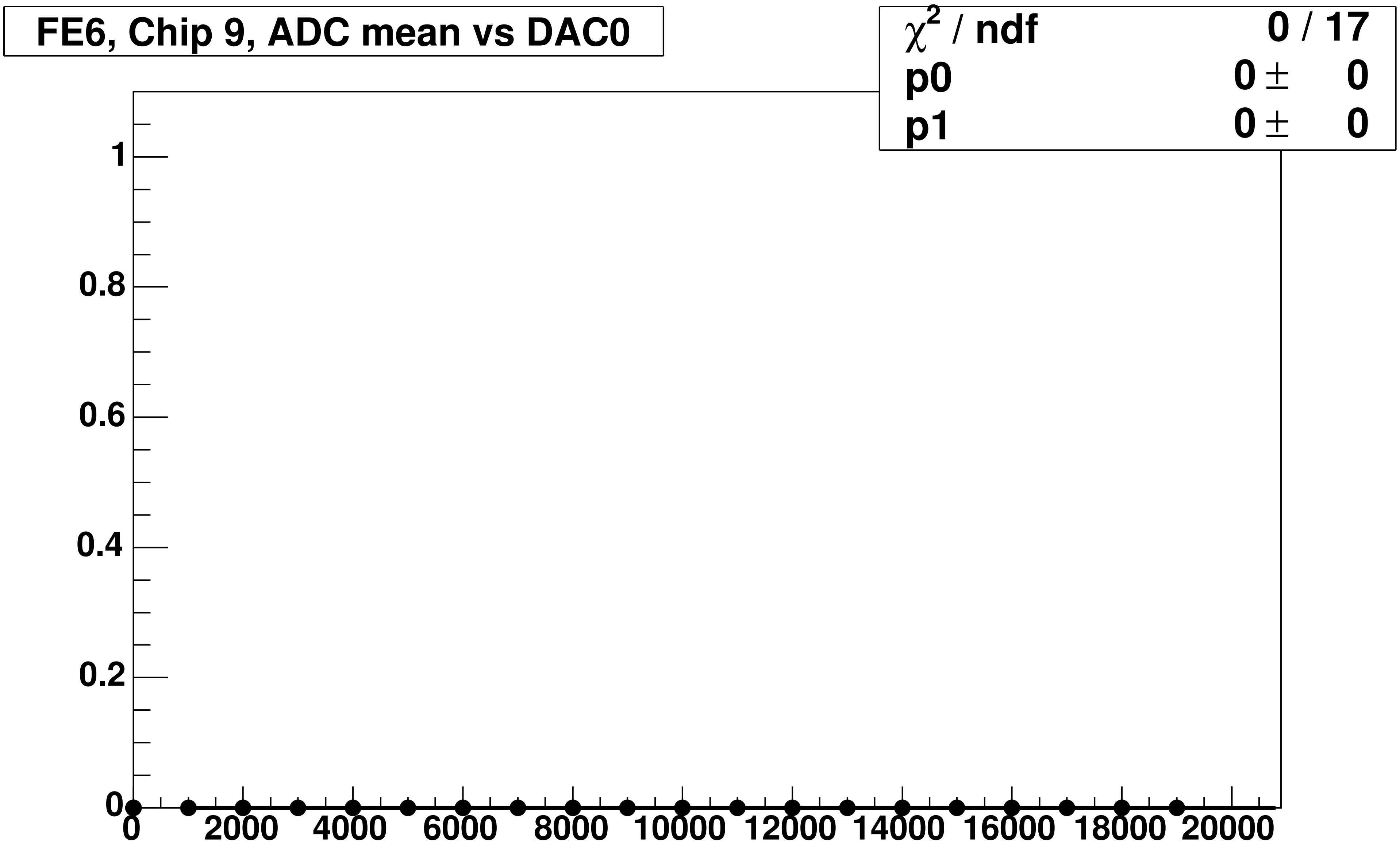
20000


FE6, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

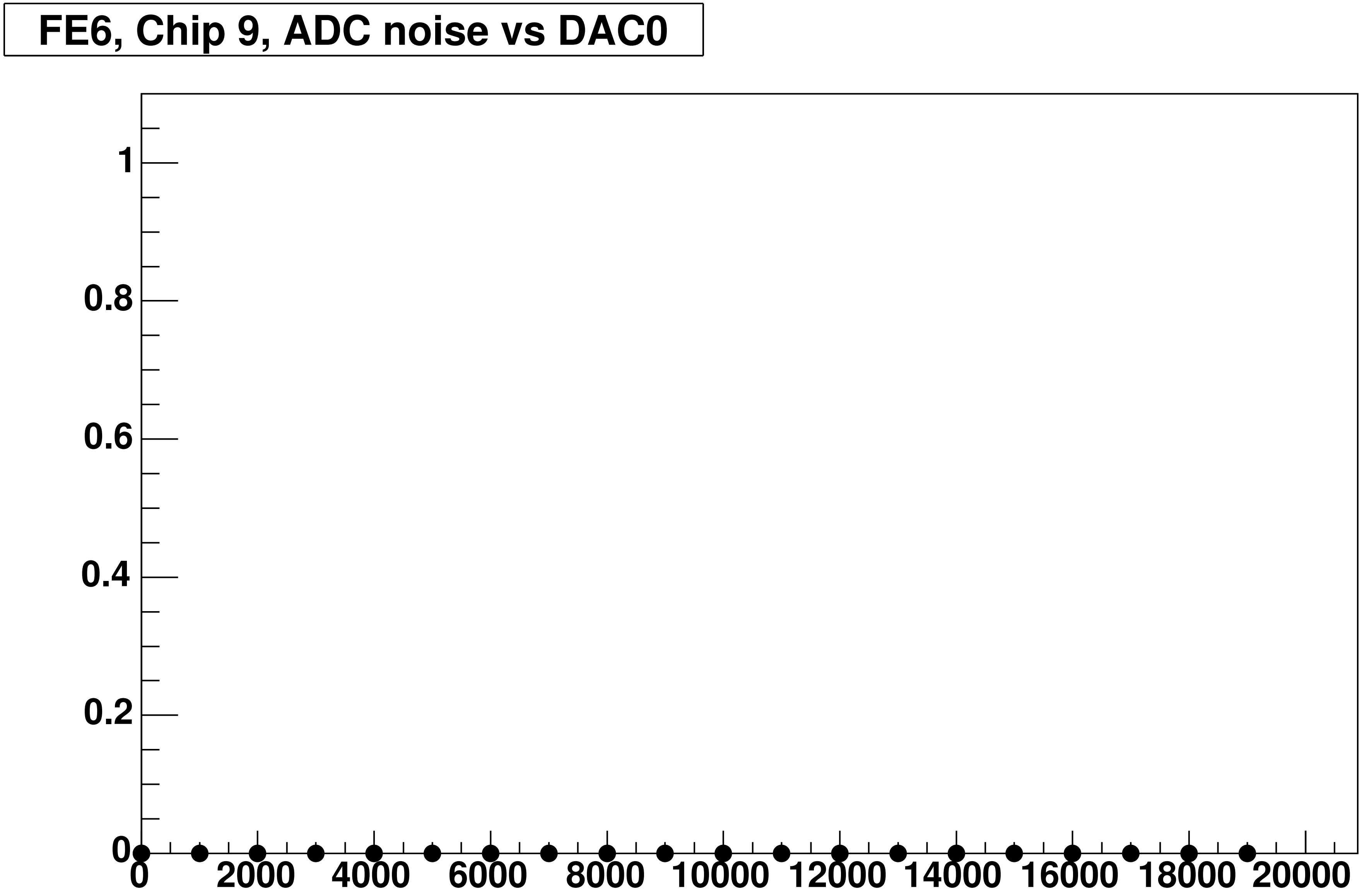
FE6, Chip 8, ADC noise vs DAC1

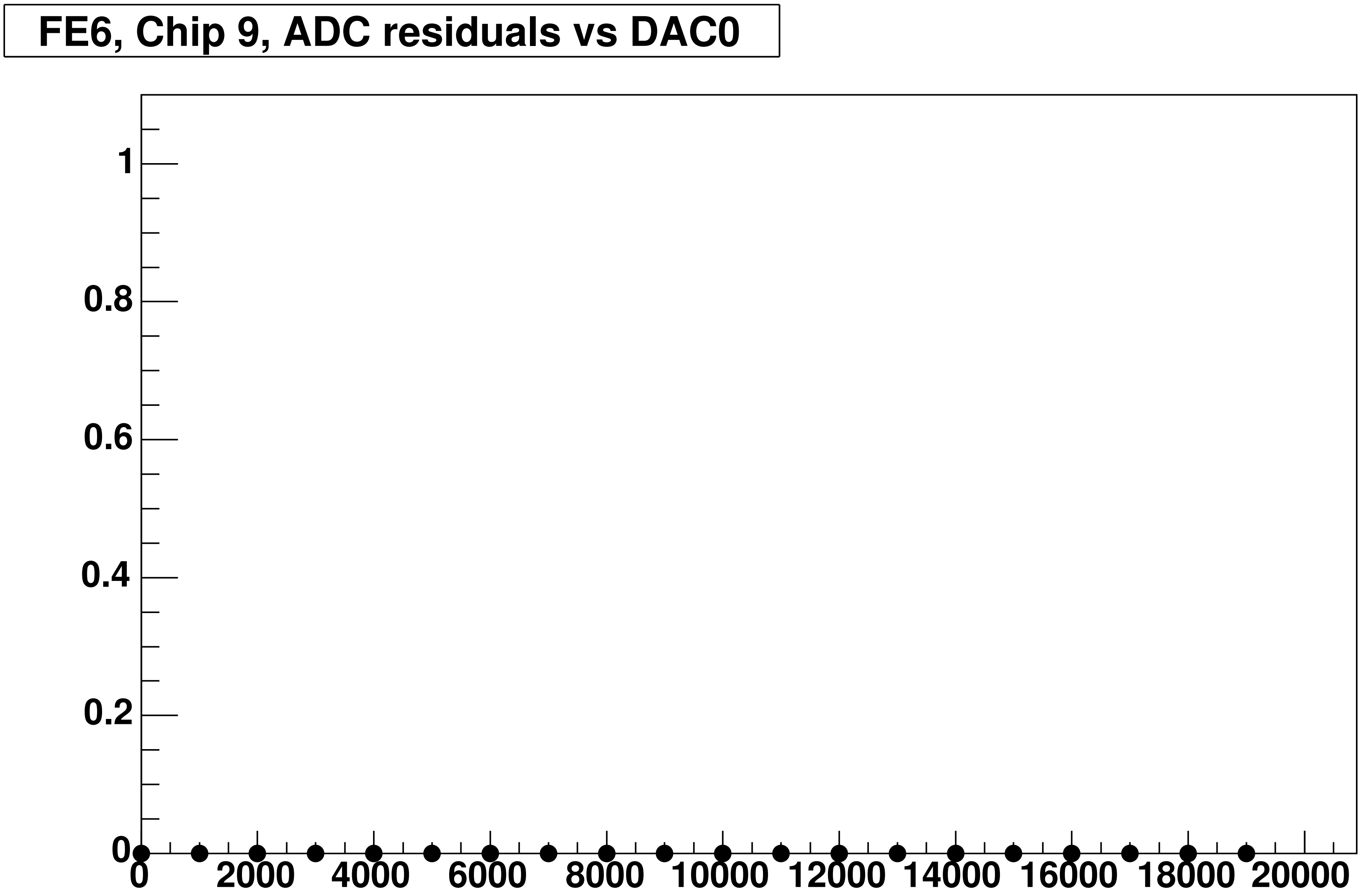



FE6, Chip 8, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

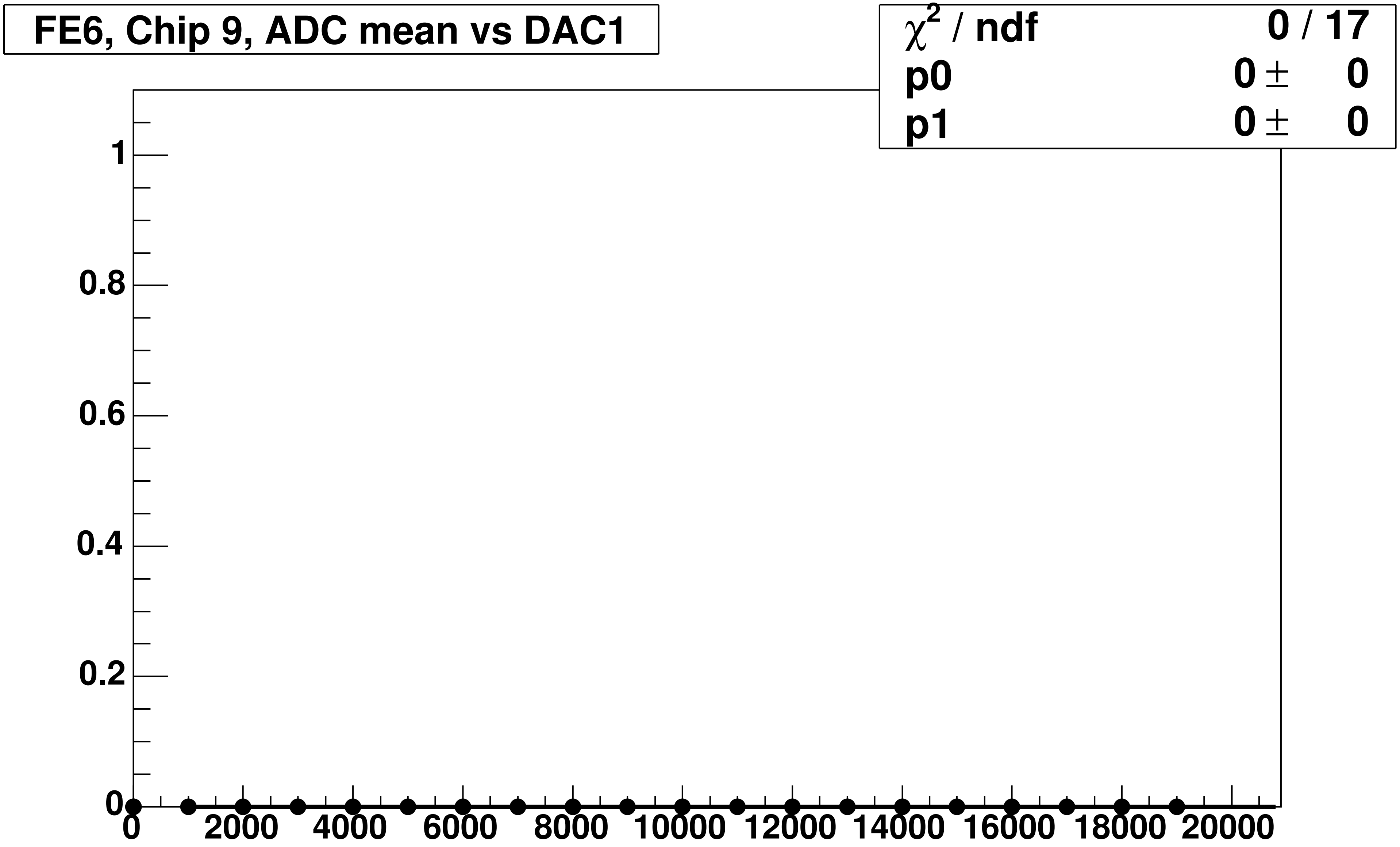


FE6, Chip 9, ADC mean vs DAC0
χ2 / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

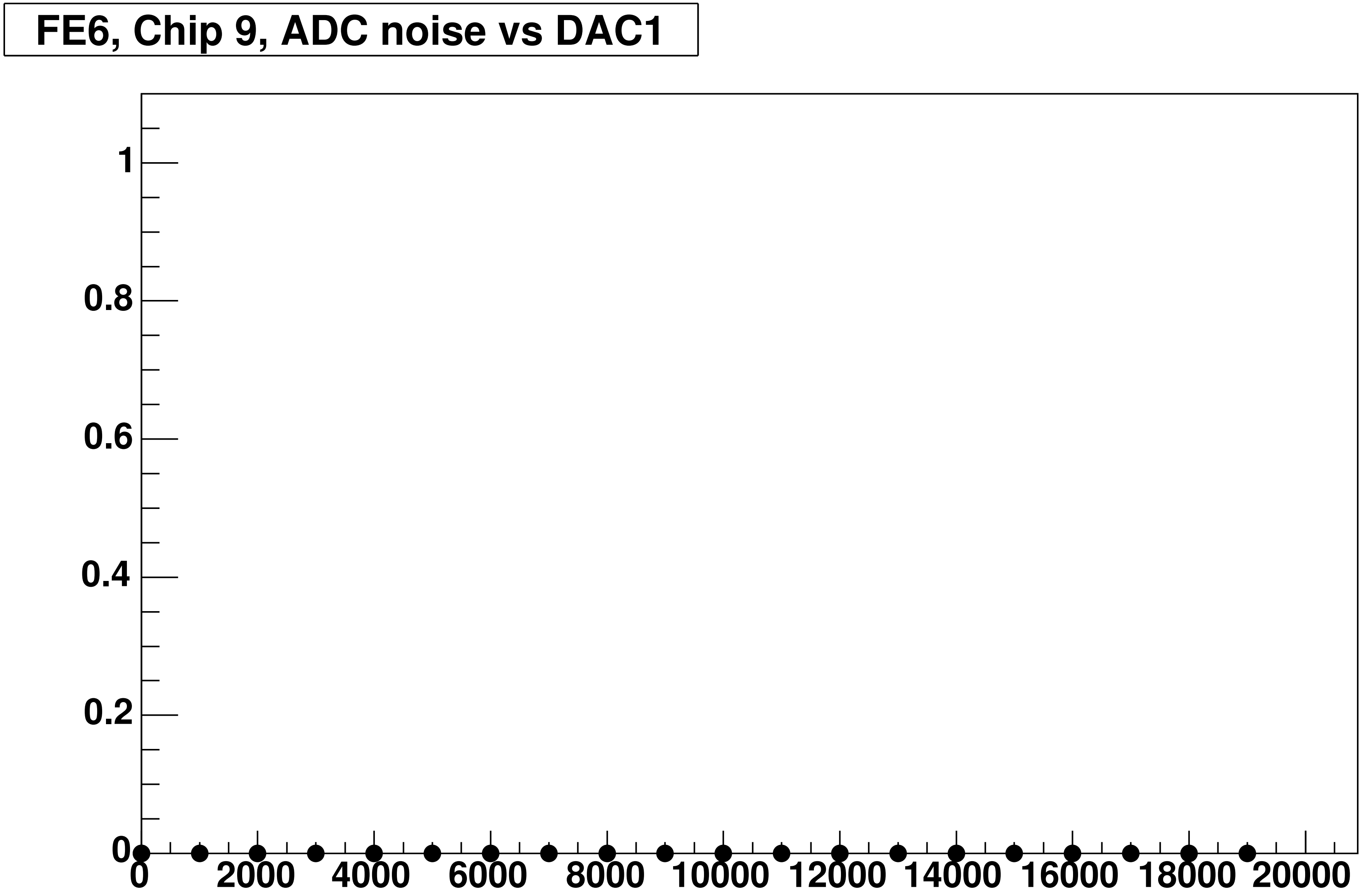

FE6, Chip 9, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



FE6, Chip 9, ADC residuals vs DAC0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



FE6, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 9, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
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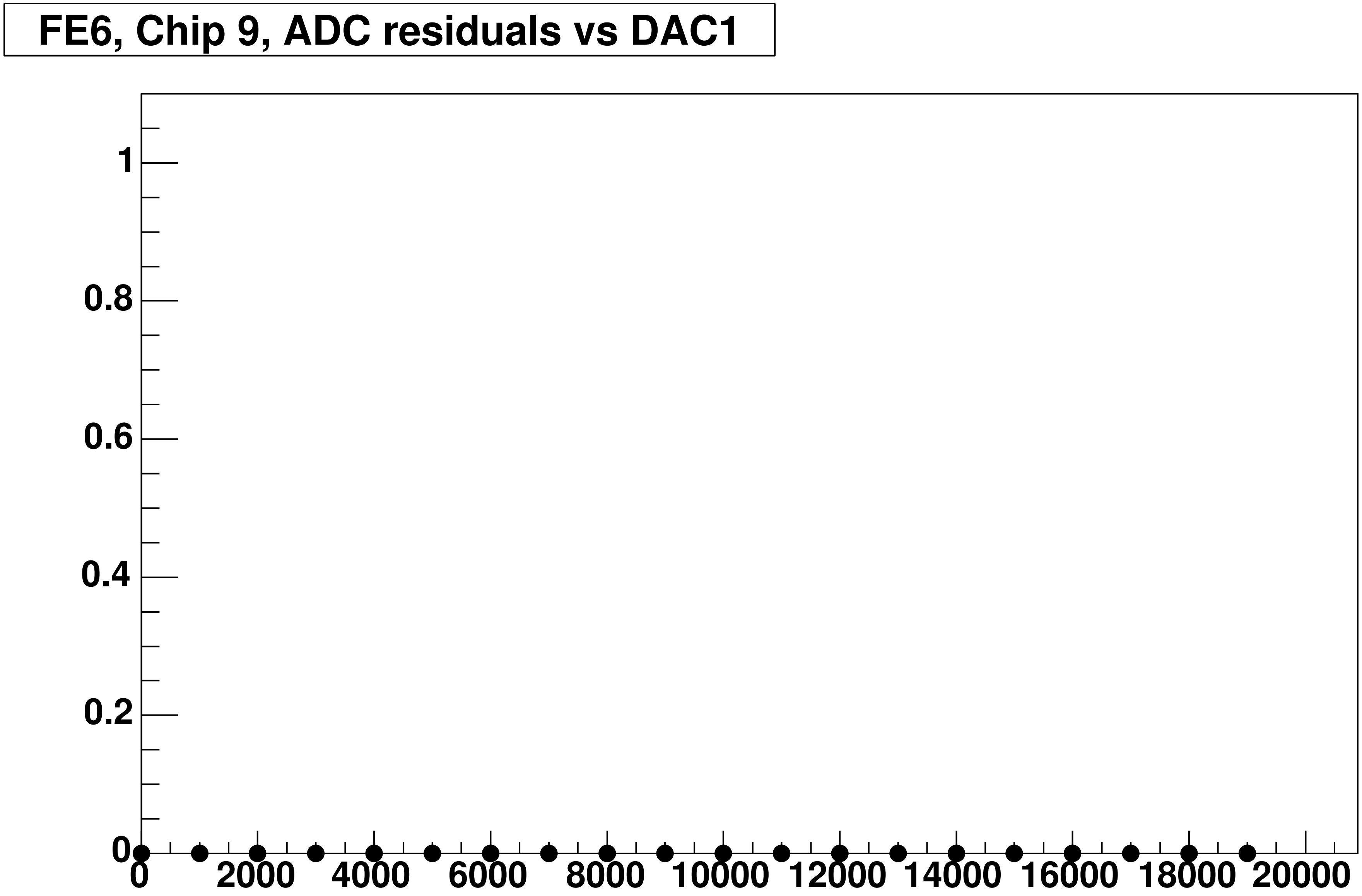
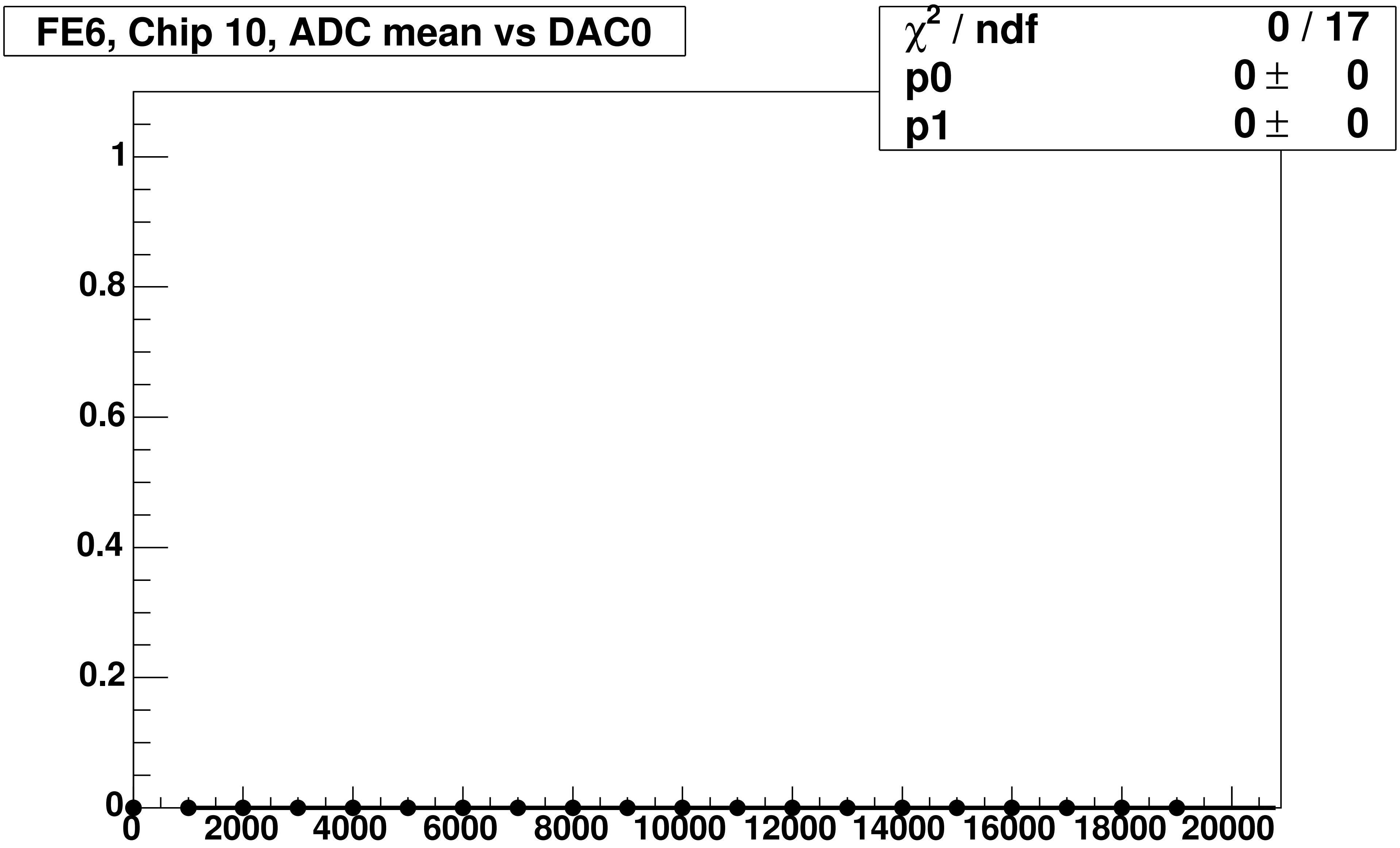
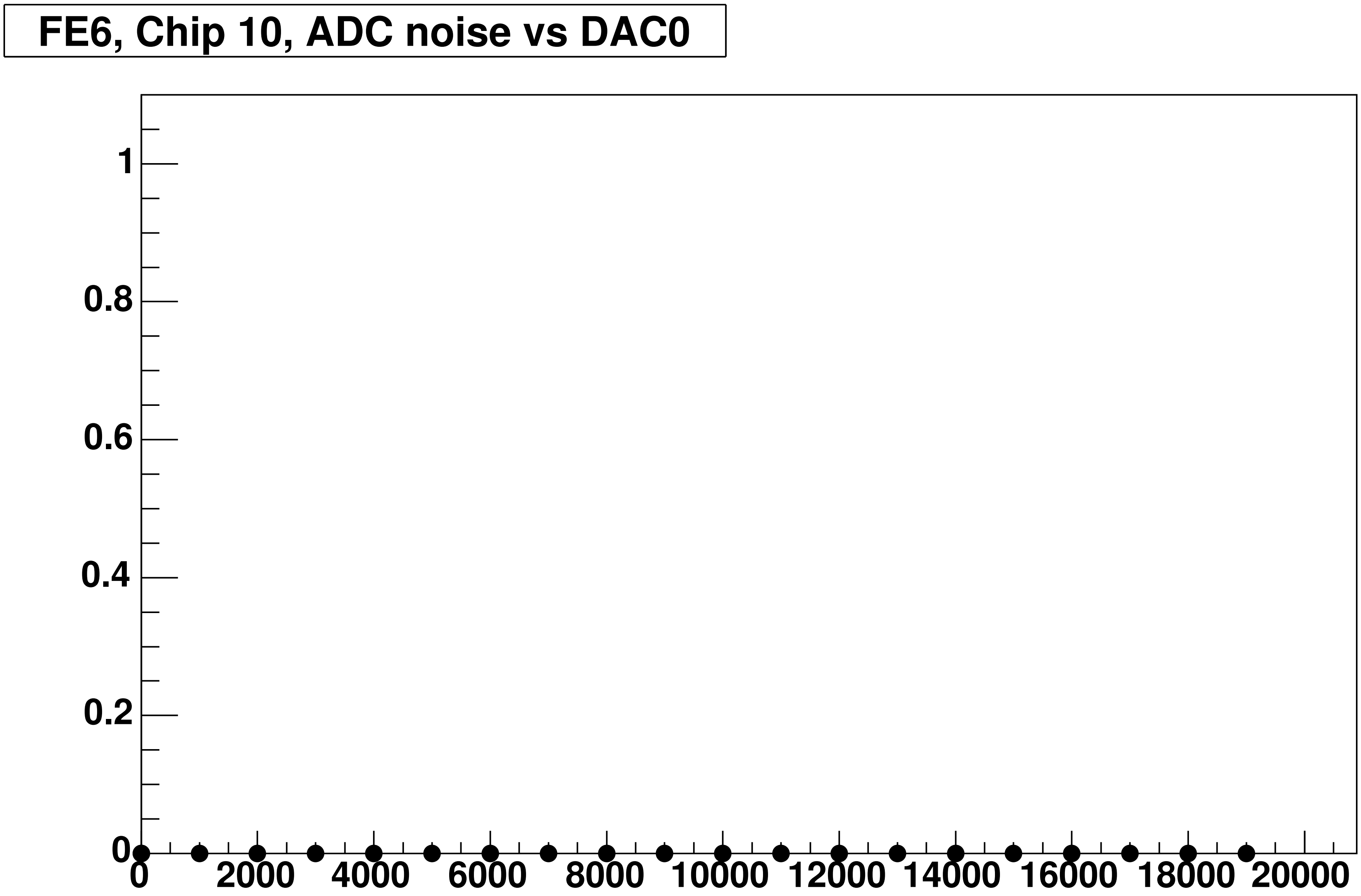
16000
18000
20000


FE6, Chip 9, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 10, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 10, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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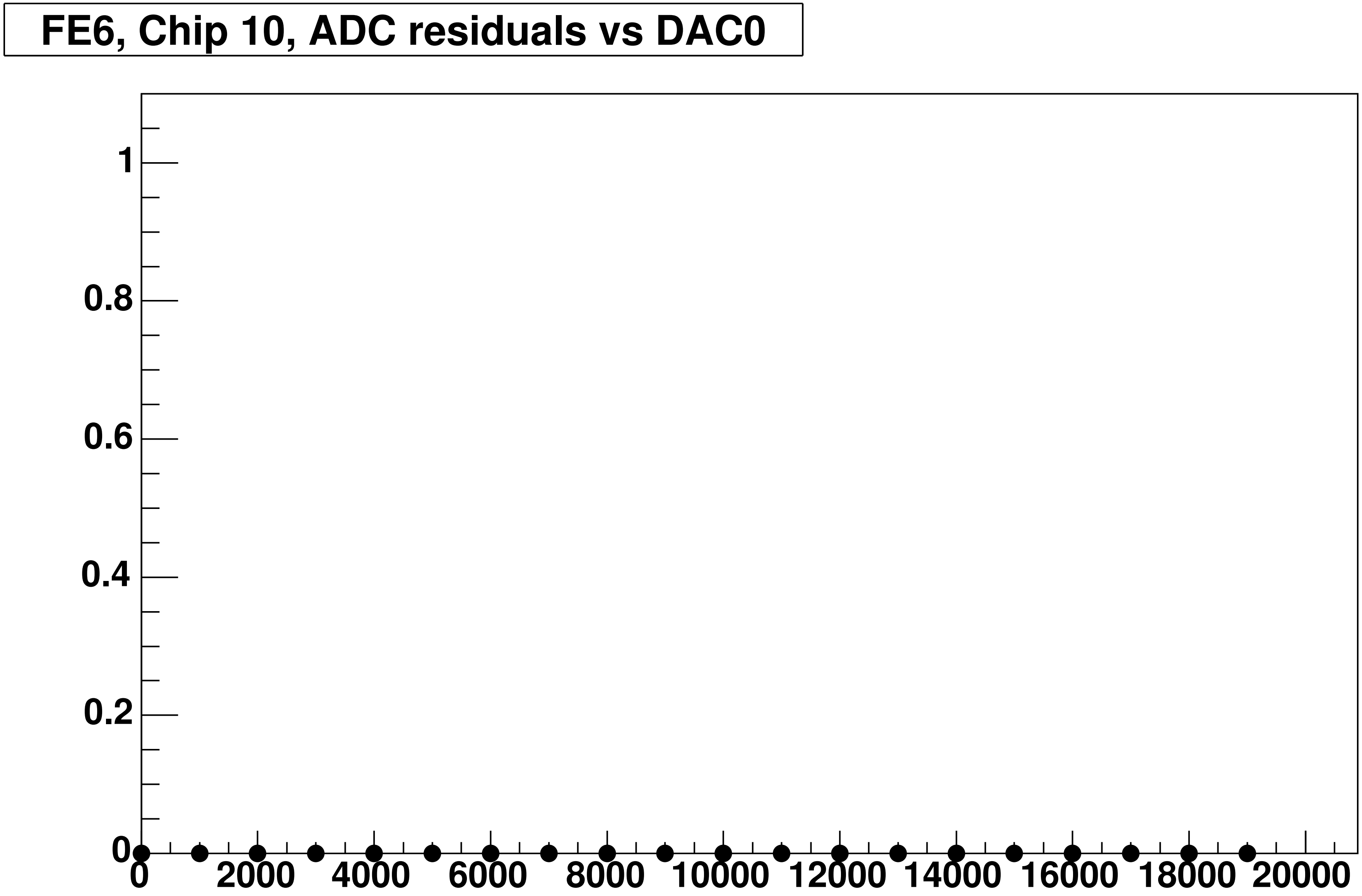
14000
16000
18000
20000


FE6, Chip 10, ADC residuals vs DAC0
1
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0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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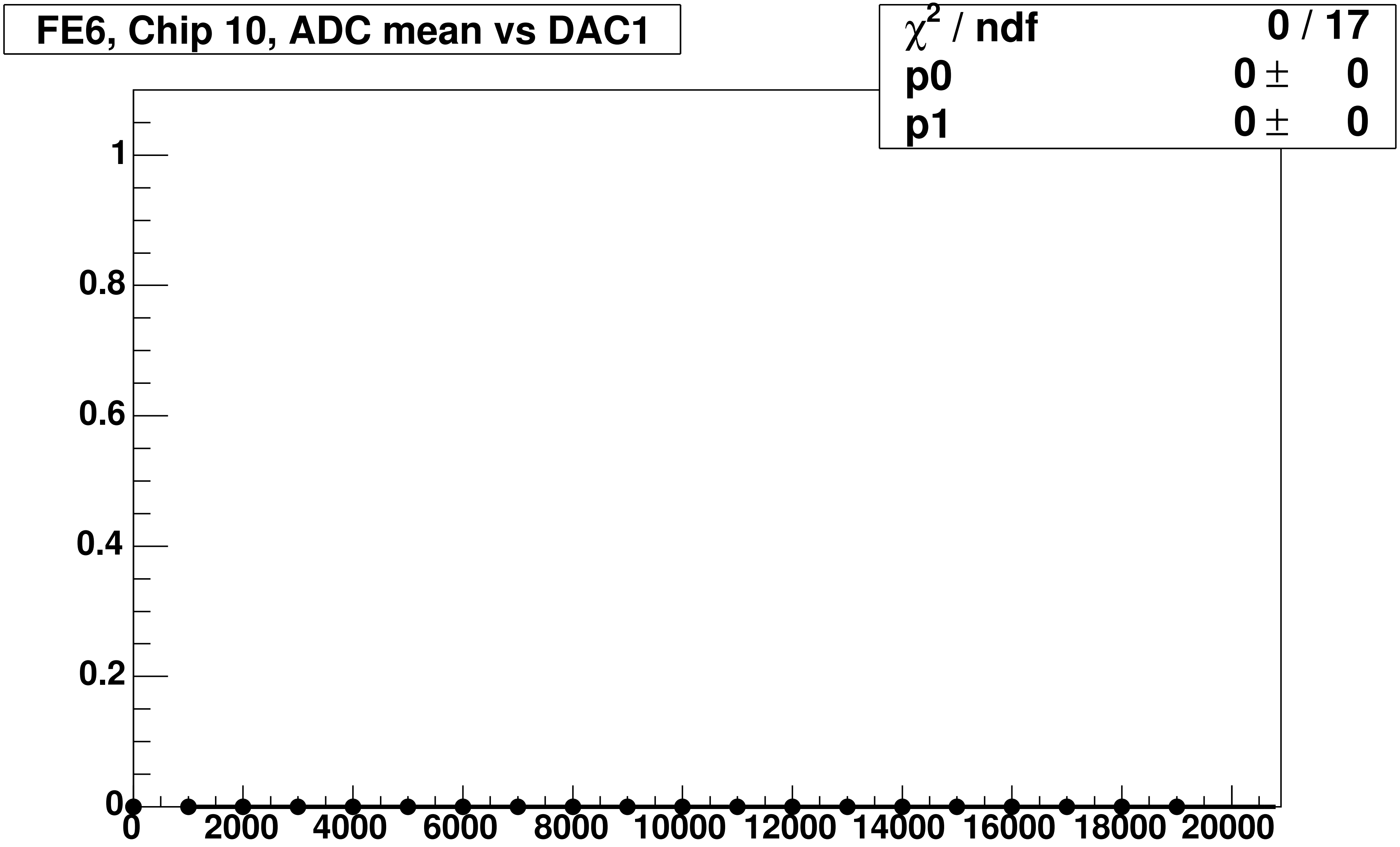
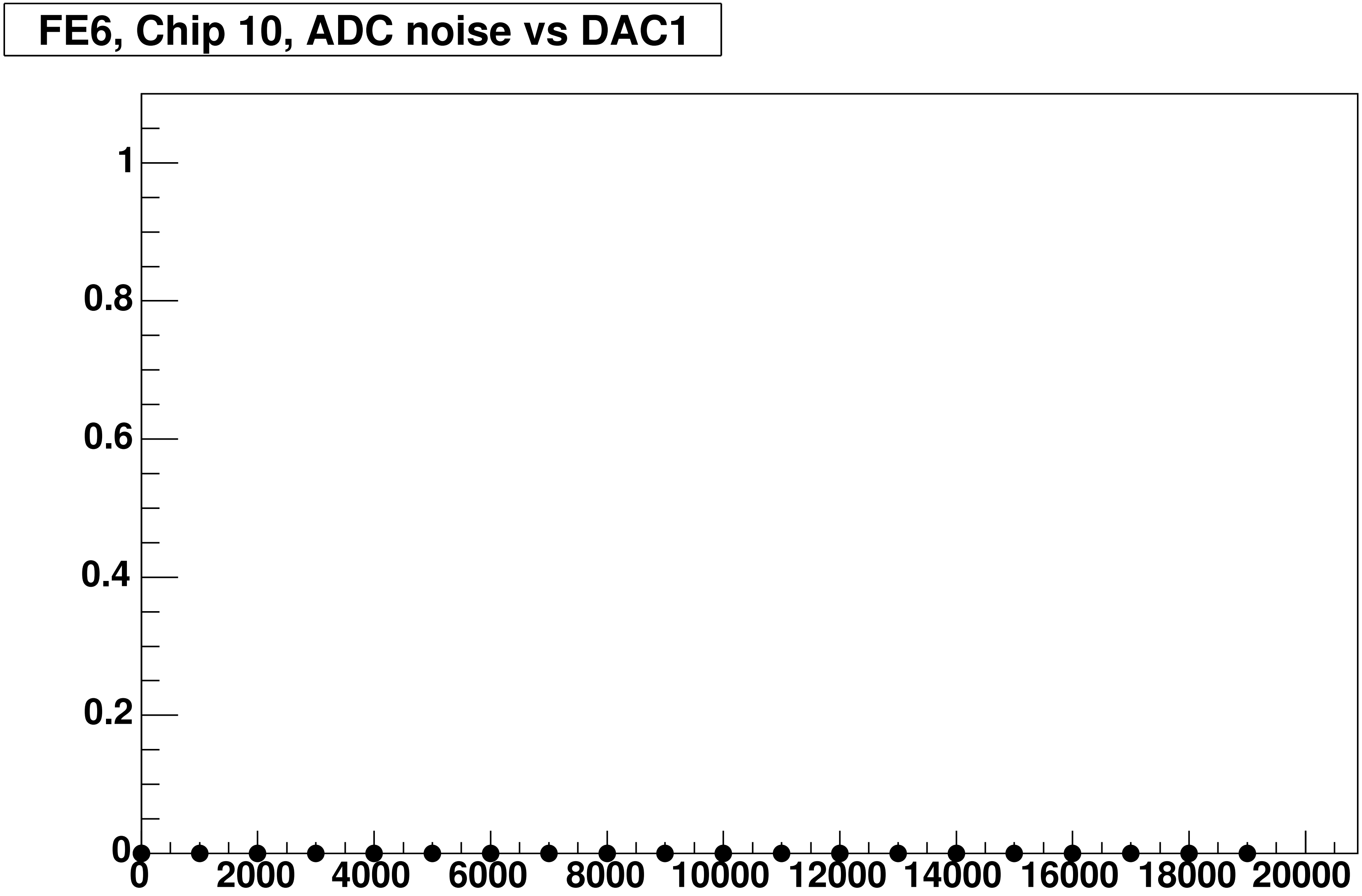
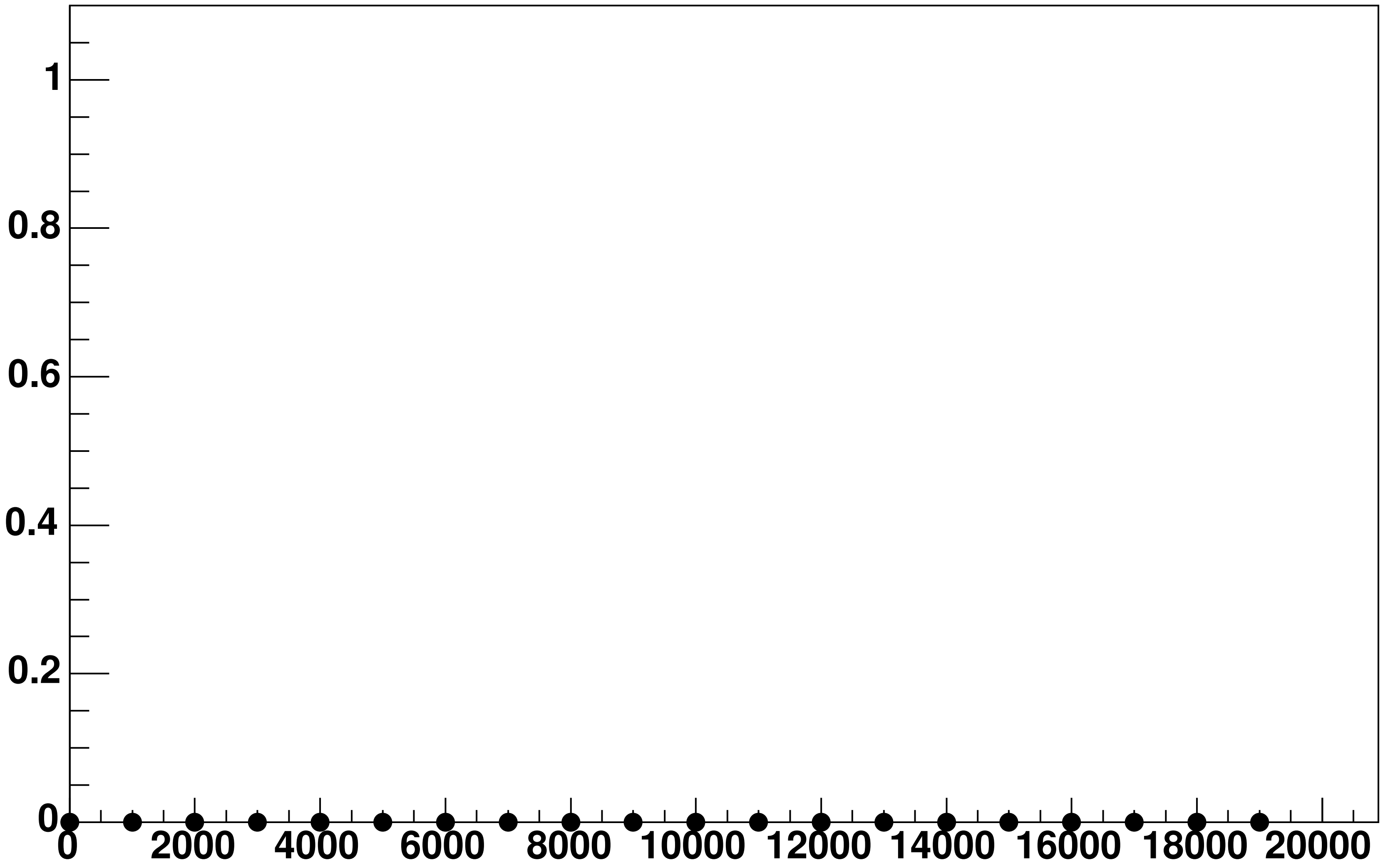
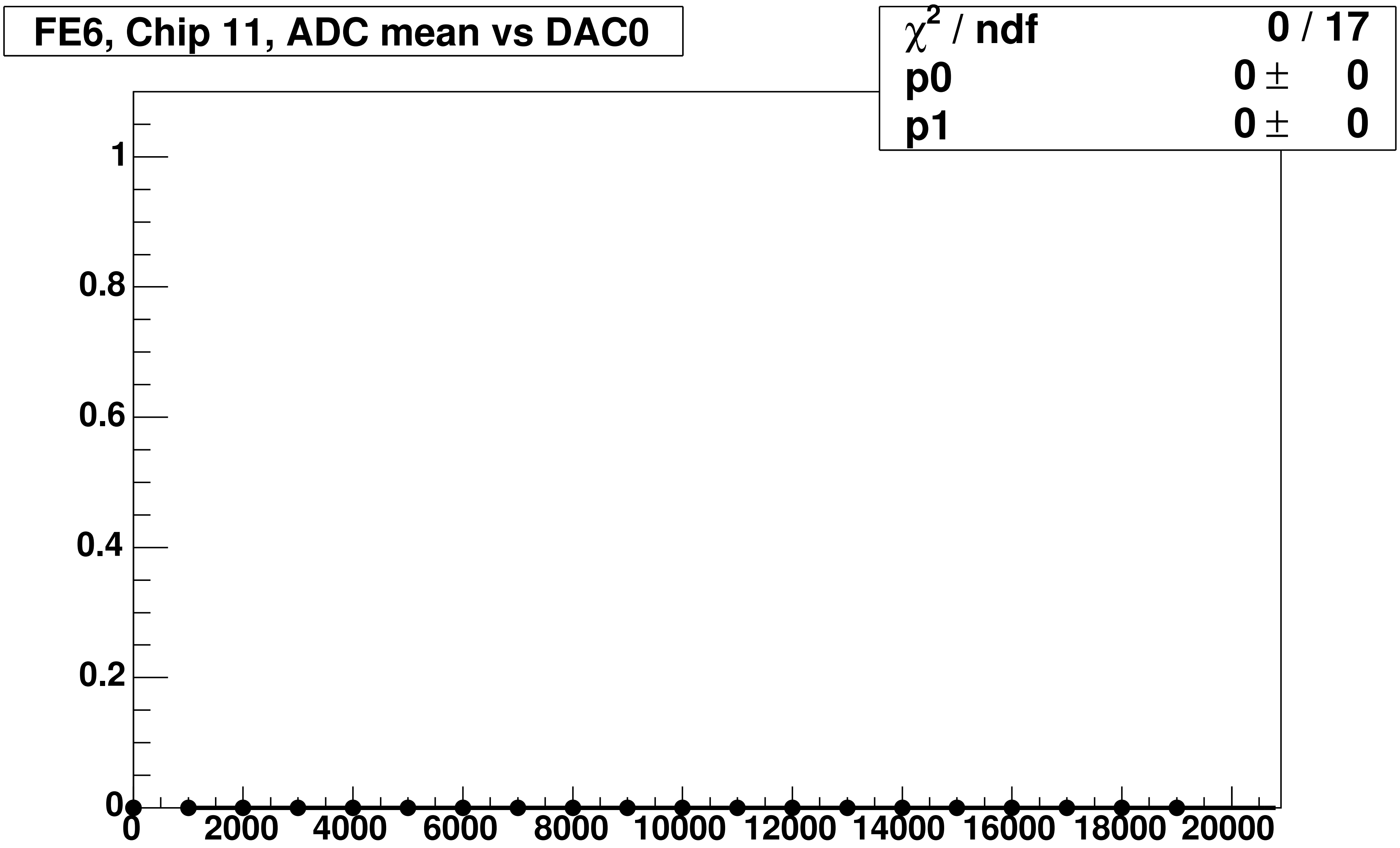

FE6, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE6, Chip 10, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

FE6, Chip 10, ADC residuals vs DAC1




FE6, Chip 11, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
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8000
10000
12000
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16000
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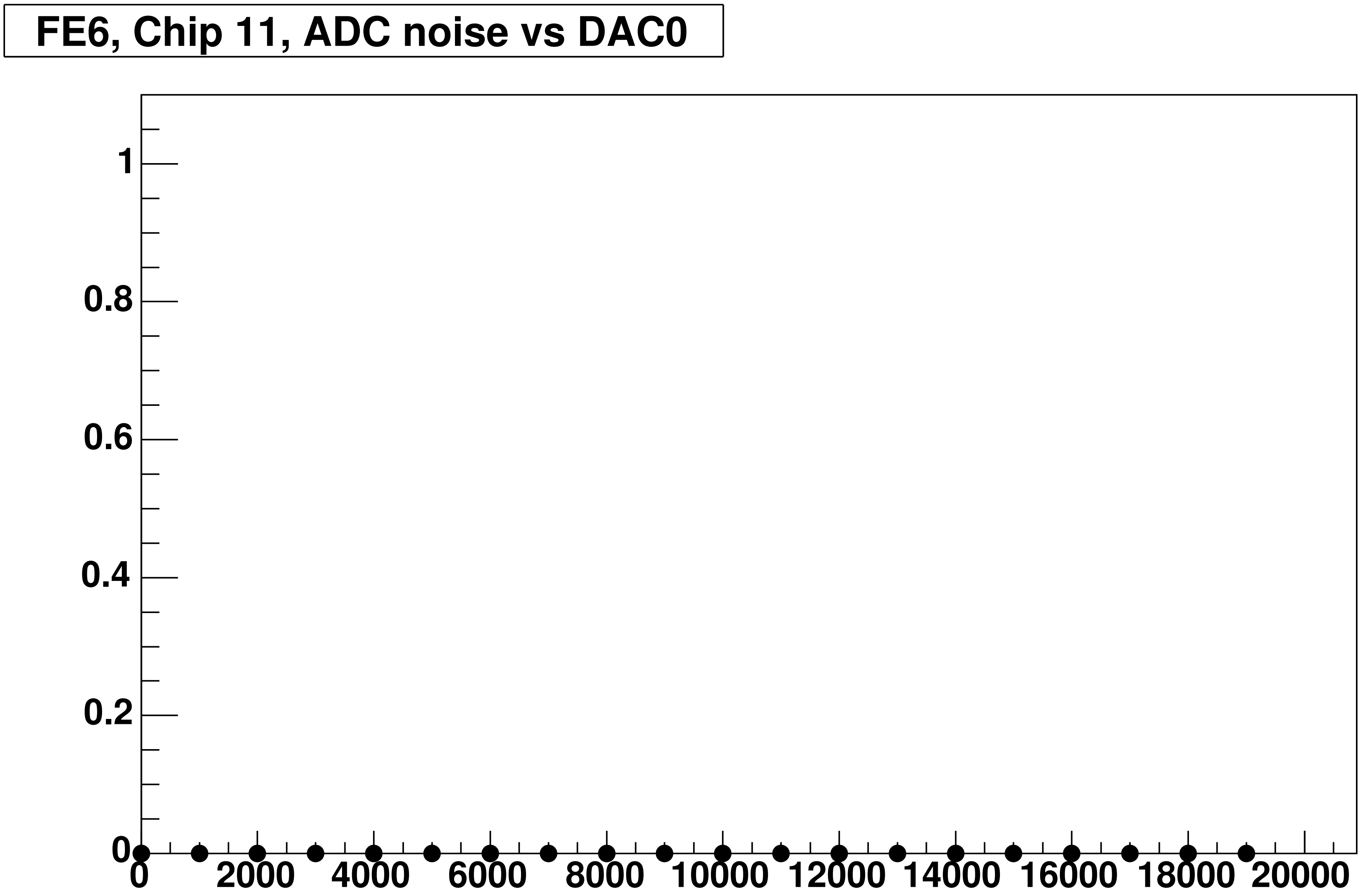
FE6, Chip 11, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
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8000
10000
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14000
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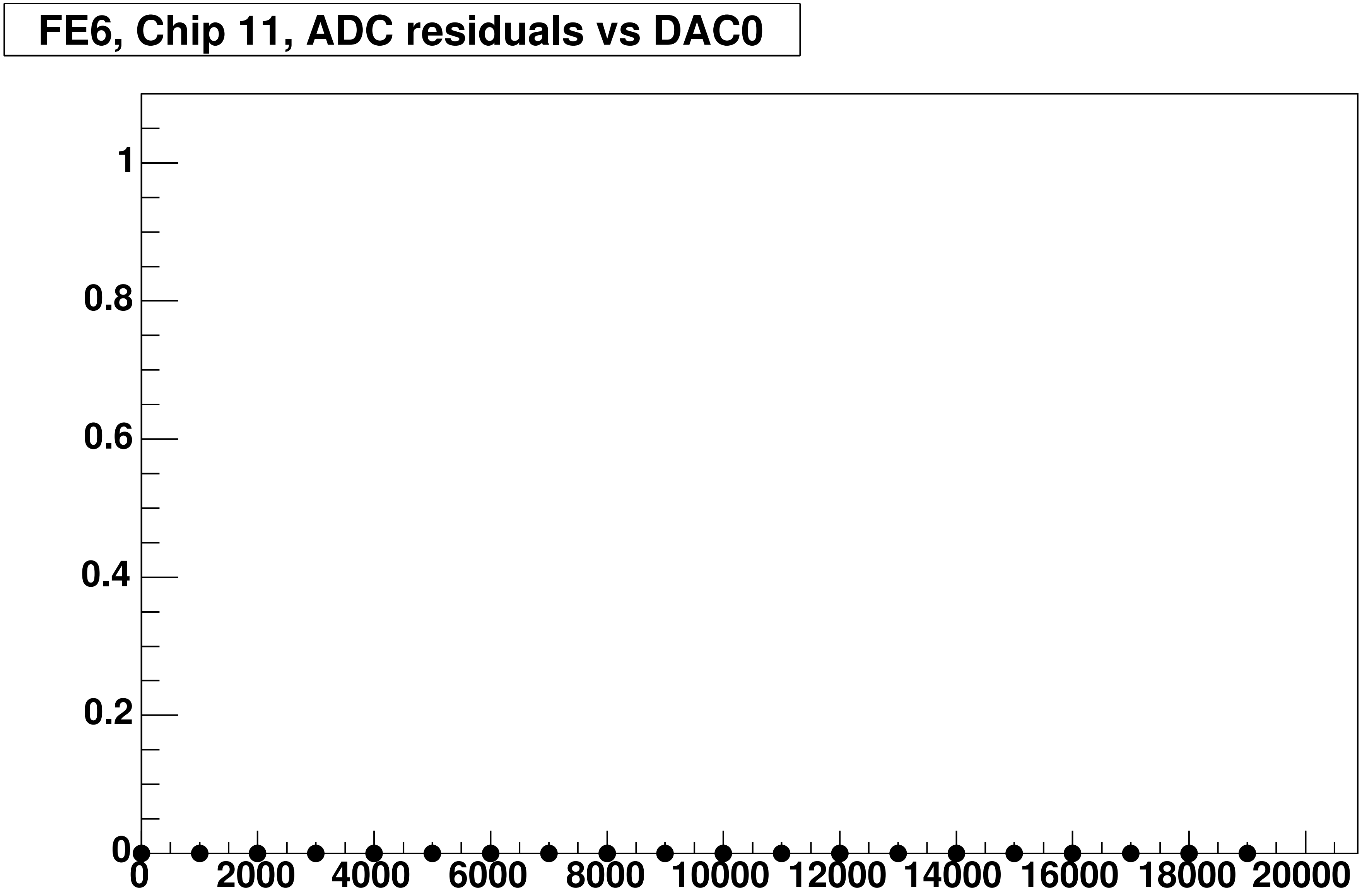
FE6, Chip 11, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
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4000
6000
8000
10000
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14000
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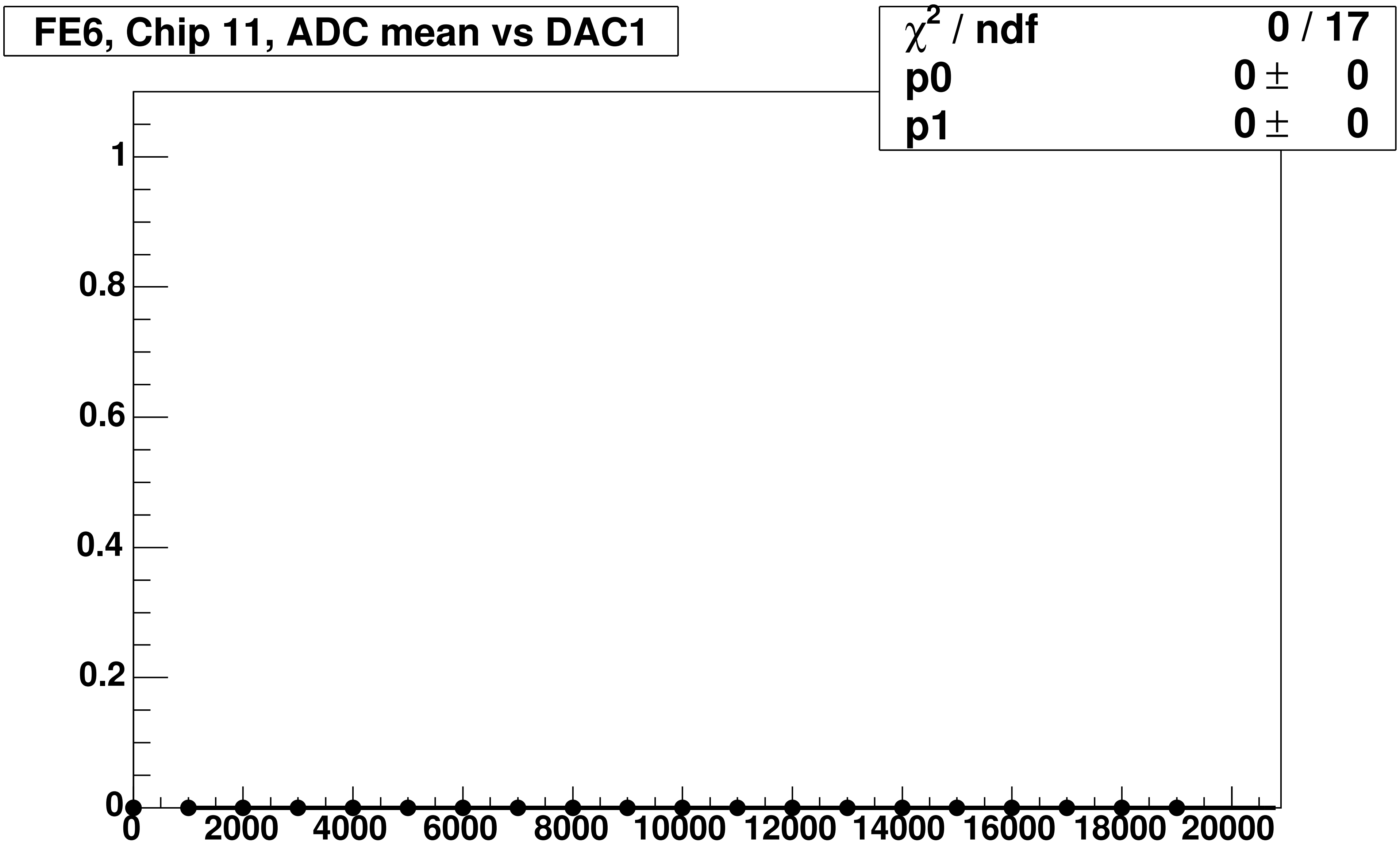
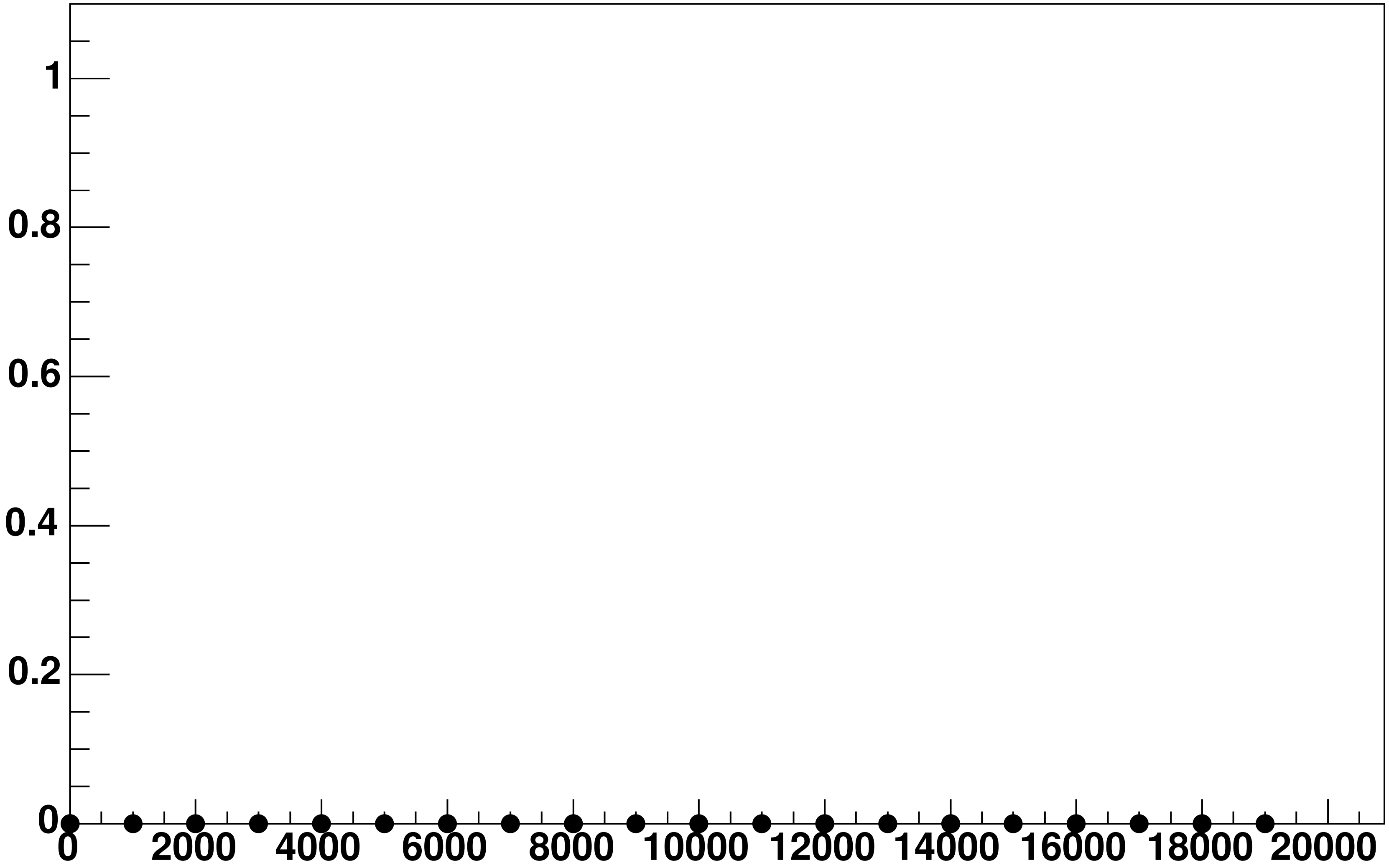
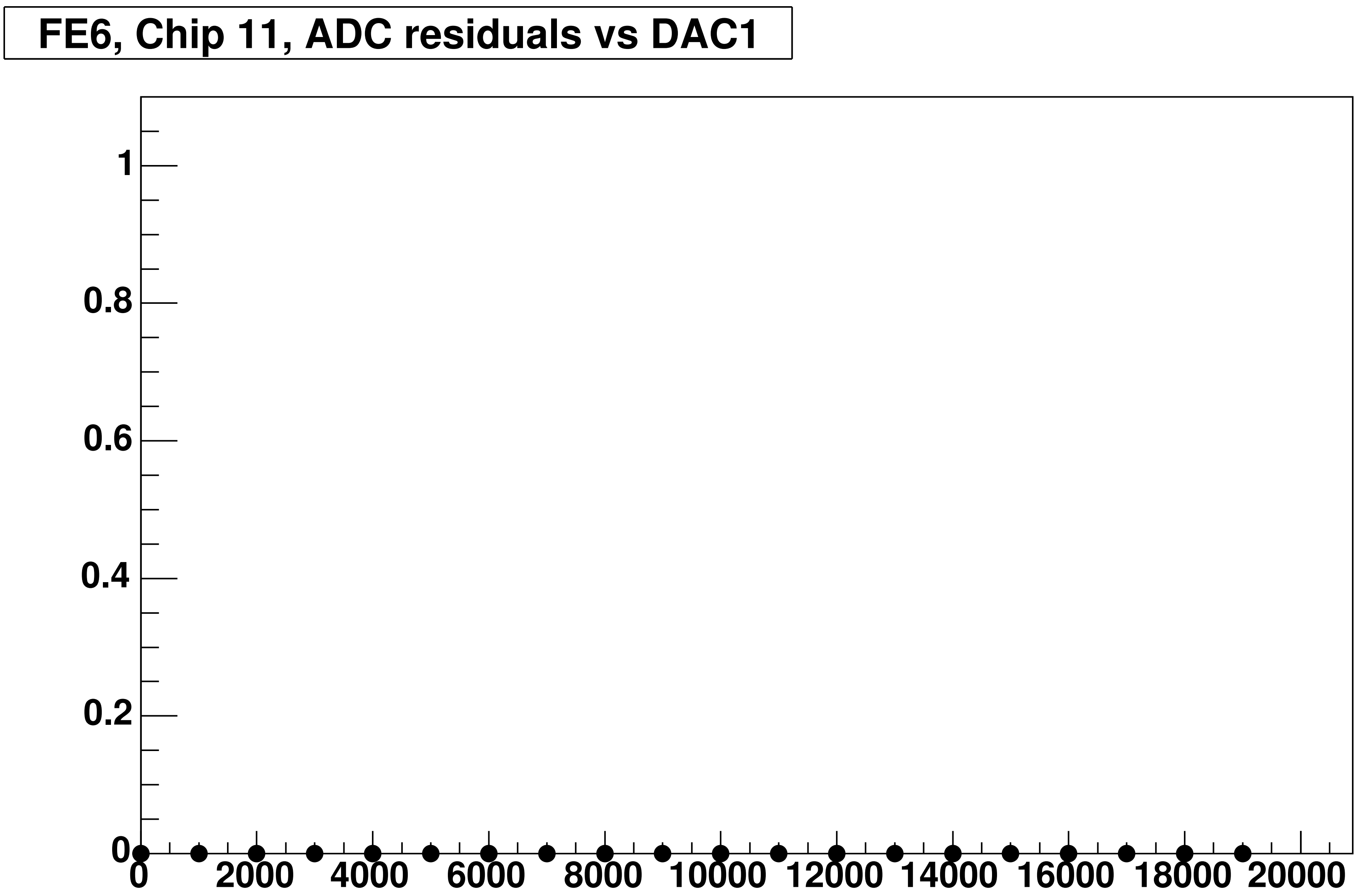

FE6, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

FE6, Chip 11, ADC noise vs DAC1




FE6, Chip 11, ADC residuals vs DAC1
0
0.2
0.4
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0.8
1
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2000
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6000
8000
10000
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14000
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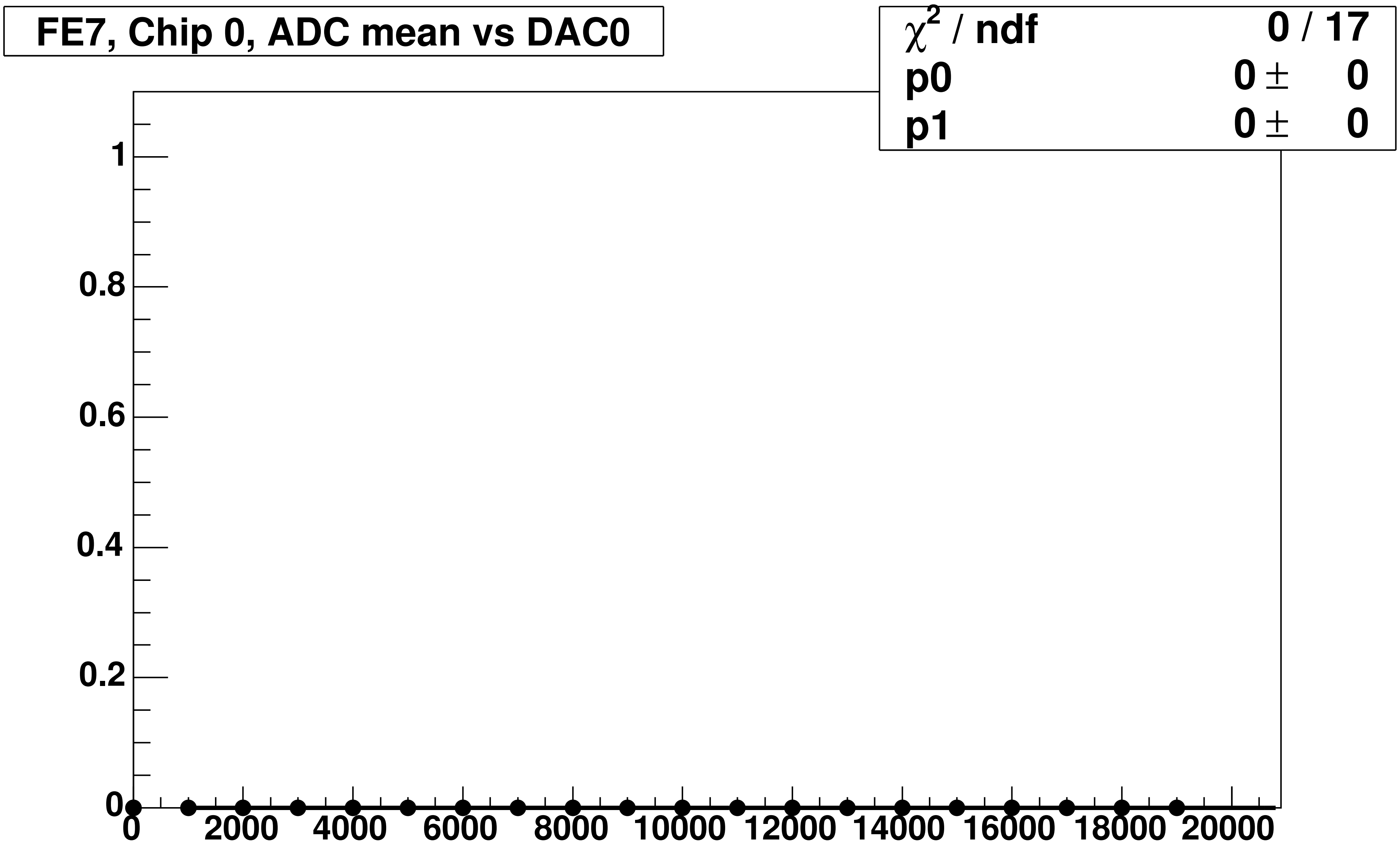
18000
20000



FE7, Chip 0, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
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4000
6000
8000
10000
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16000
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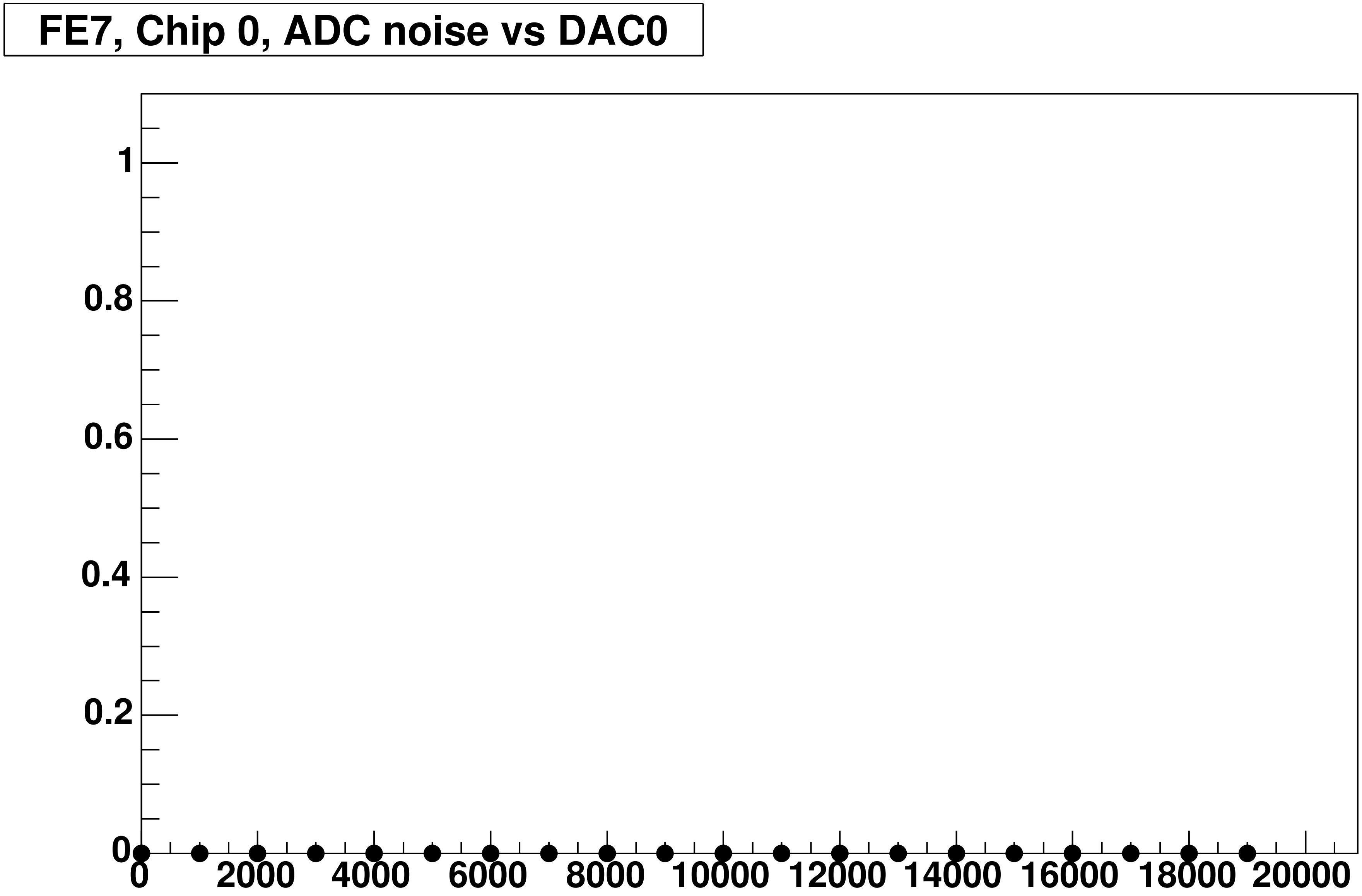
FE7, Chip 0, ADC noise vs DAC0
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0.6
0.4
0.2
0
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6000
8000
10000
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14000
16000
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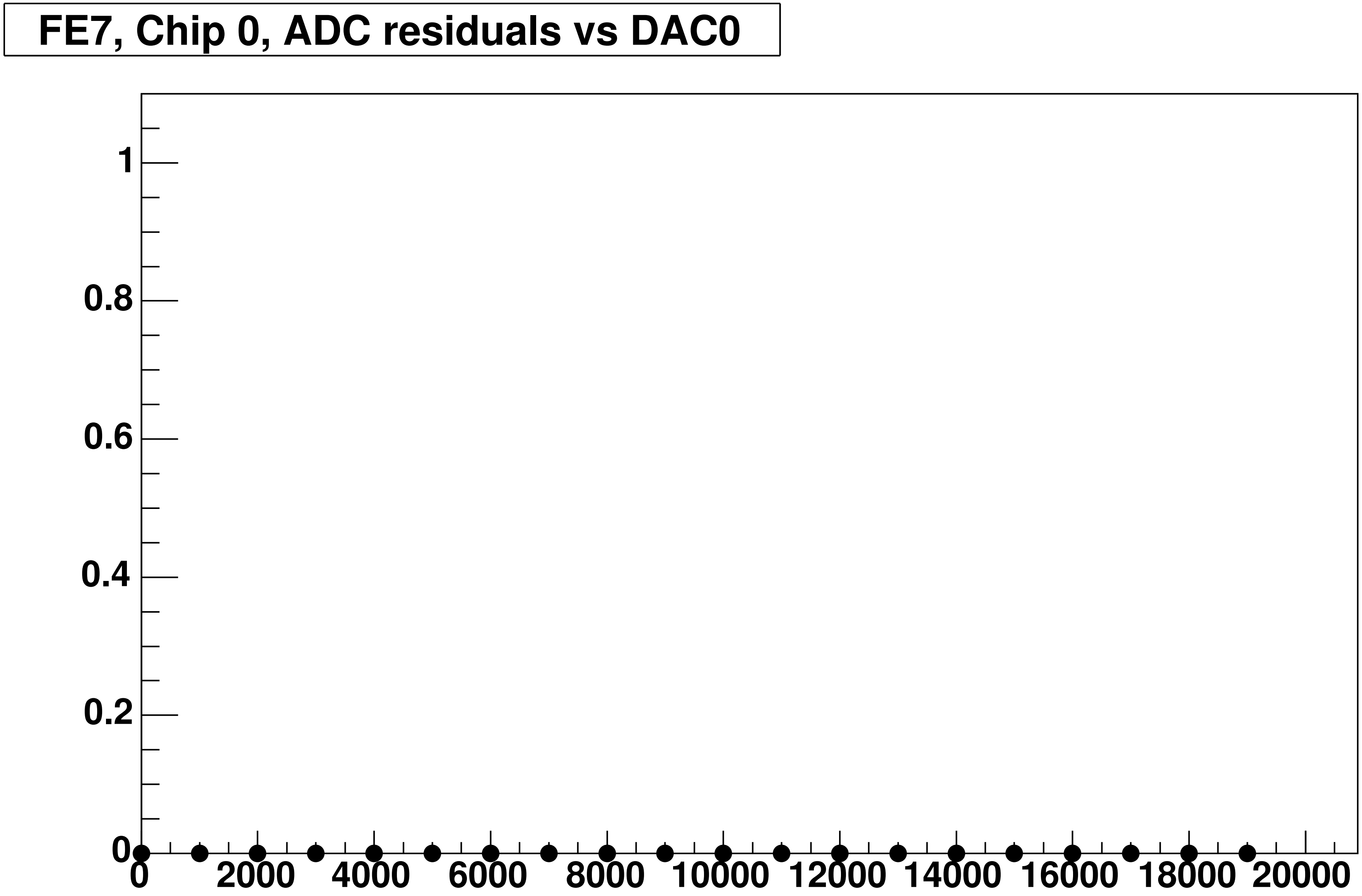
20000


FE7, Chip 0, ADC residuals vs DAC0
0
0.2
0.4
0.6
0.8
1
0
2000
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6000
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10000
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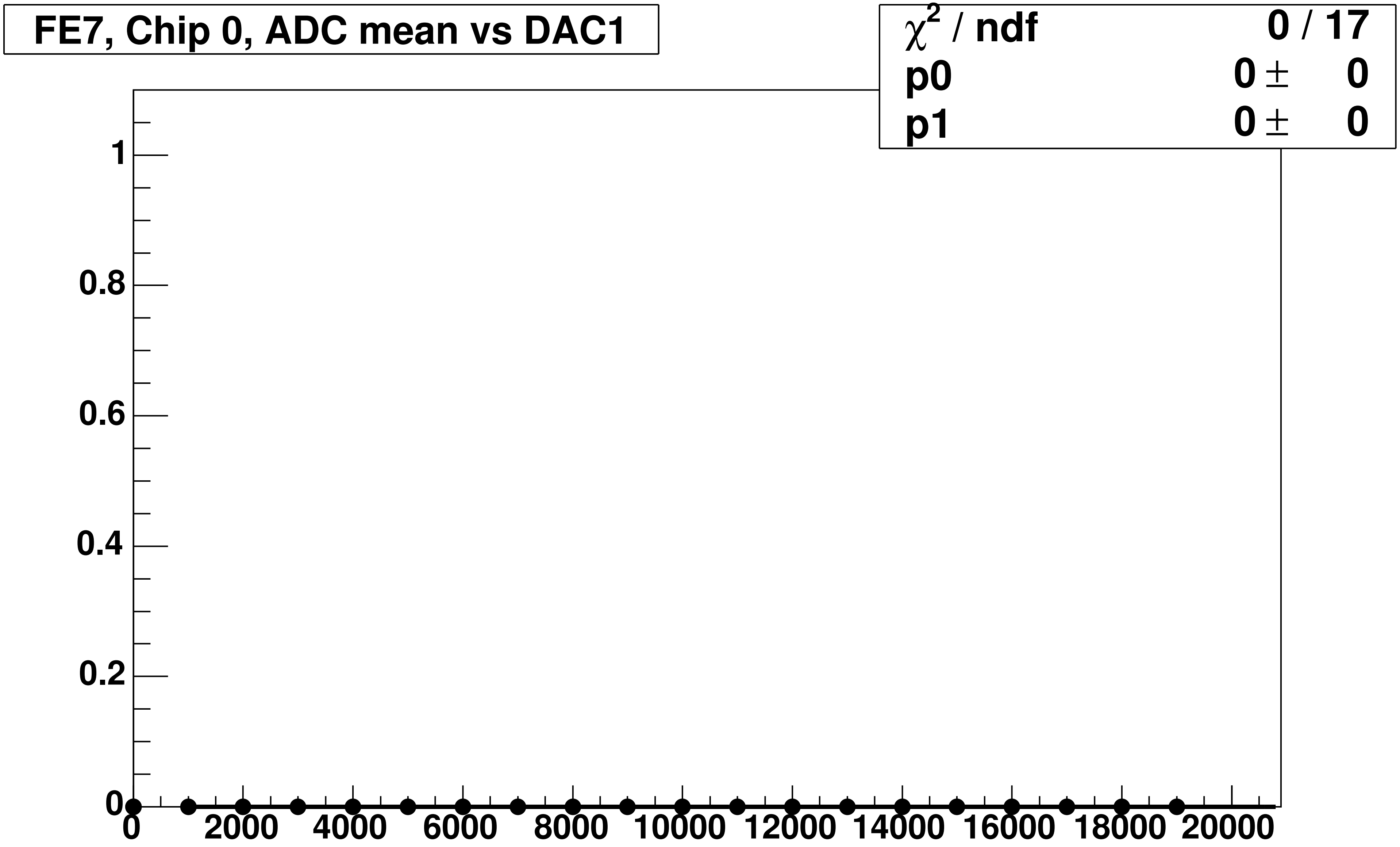
FE7, Chip 0, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
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4000
6000
8000
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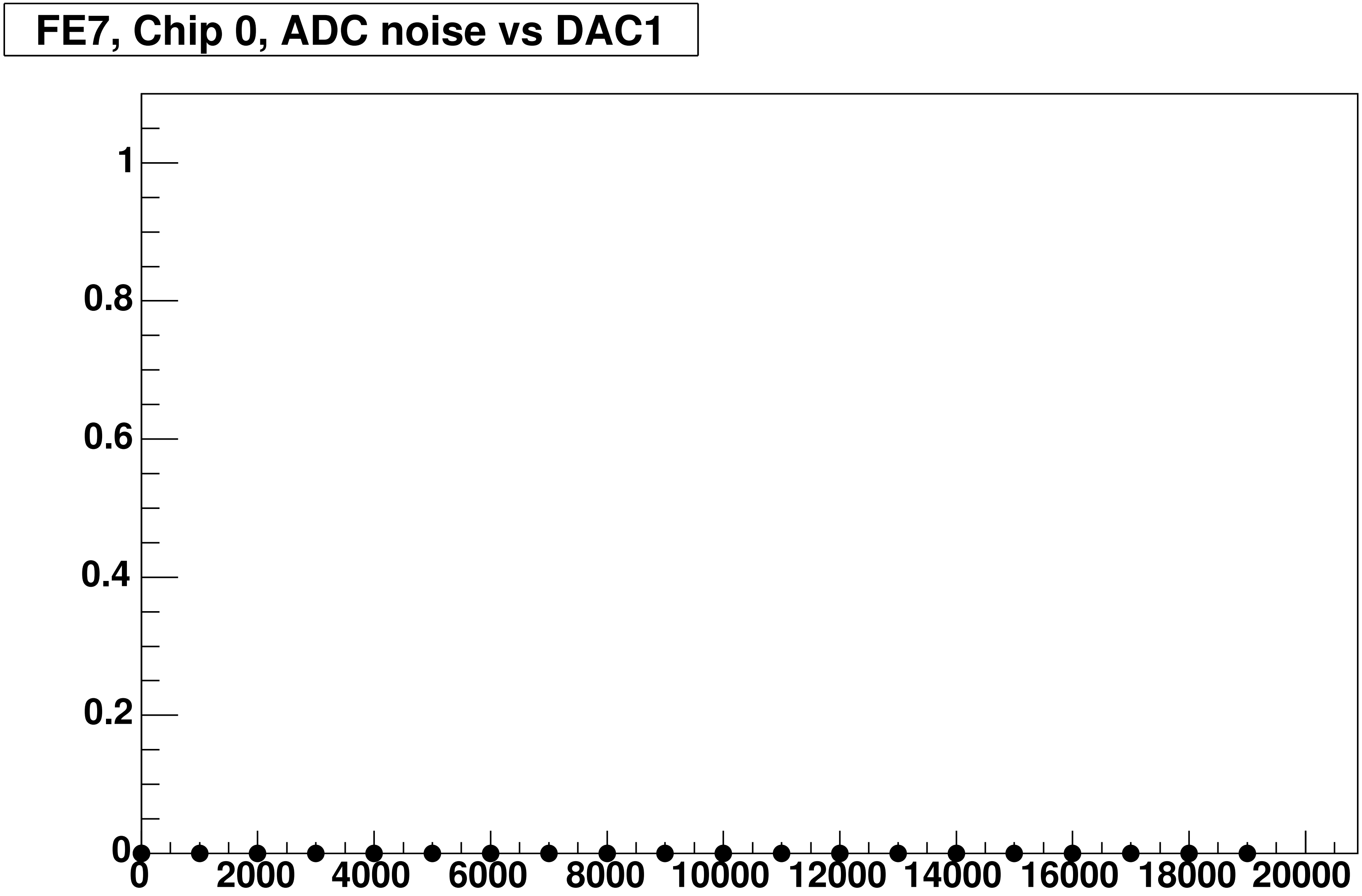
FE7, Chip 0, ADC noise vs DAC1
0
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0.8
1
0
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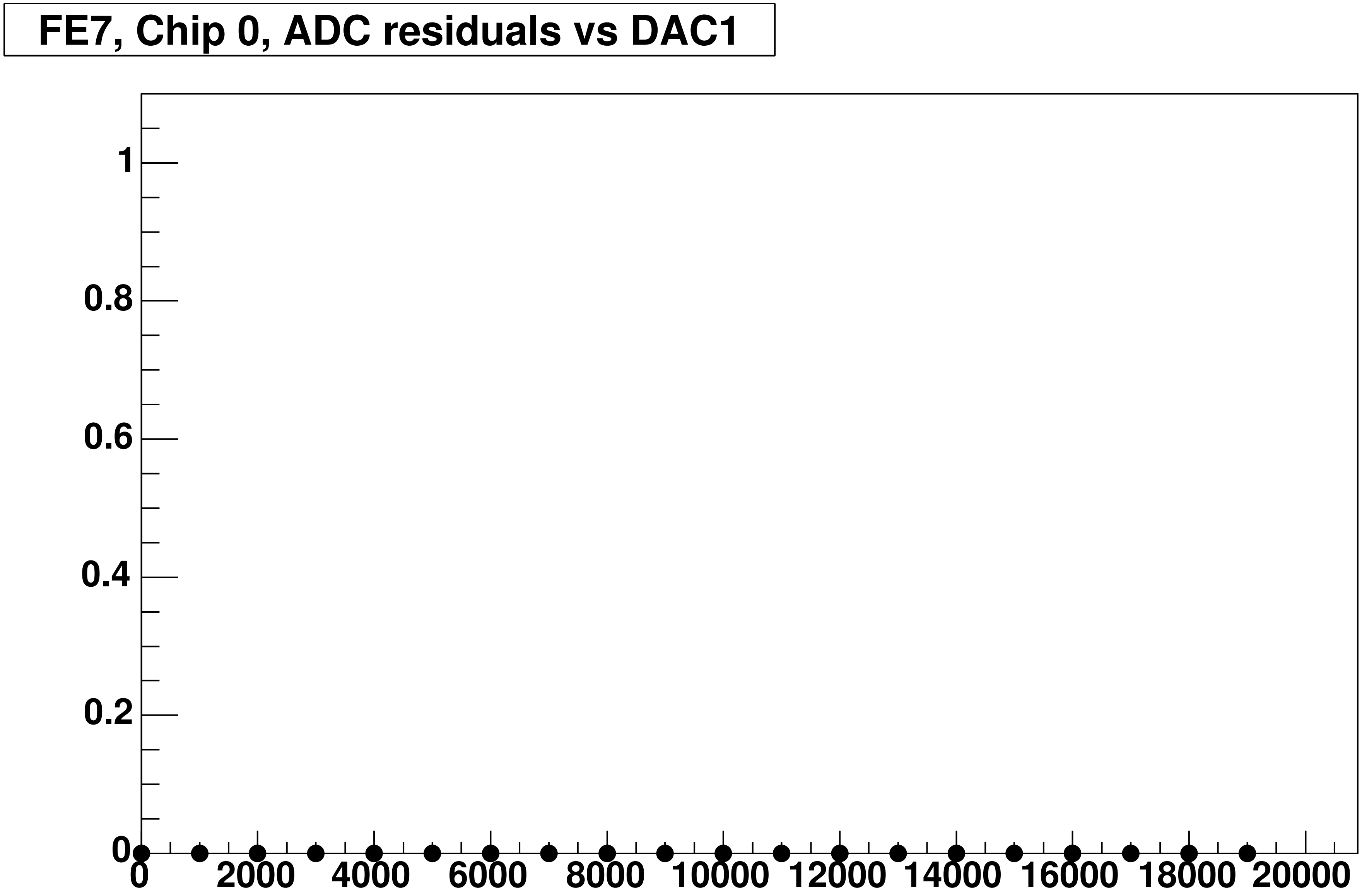
FE7, Chip 0, ADC residuals vs DAC1
0
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0.8
1
0
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8000
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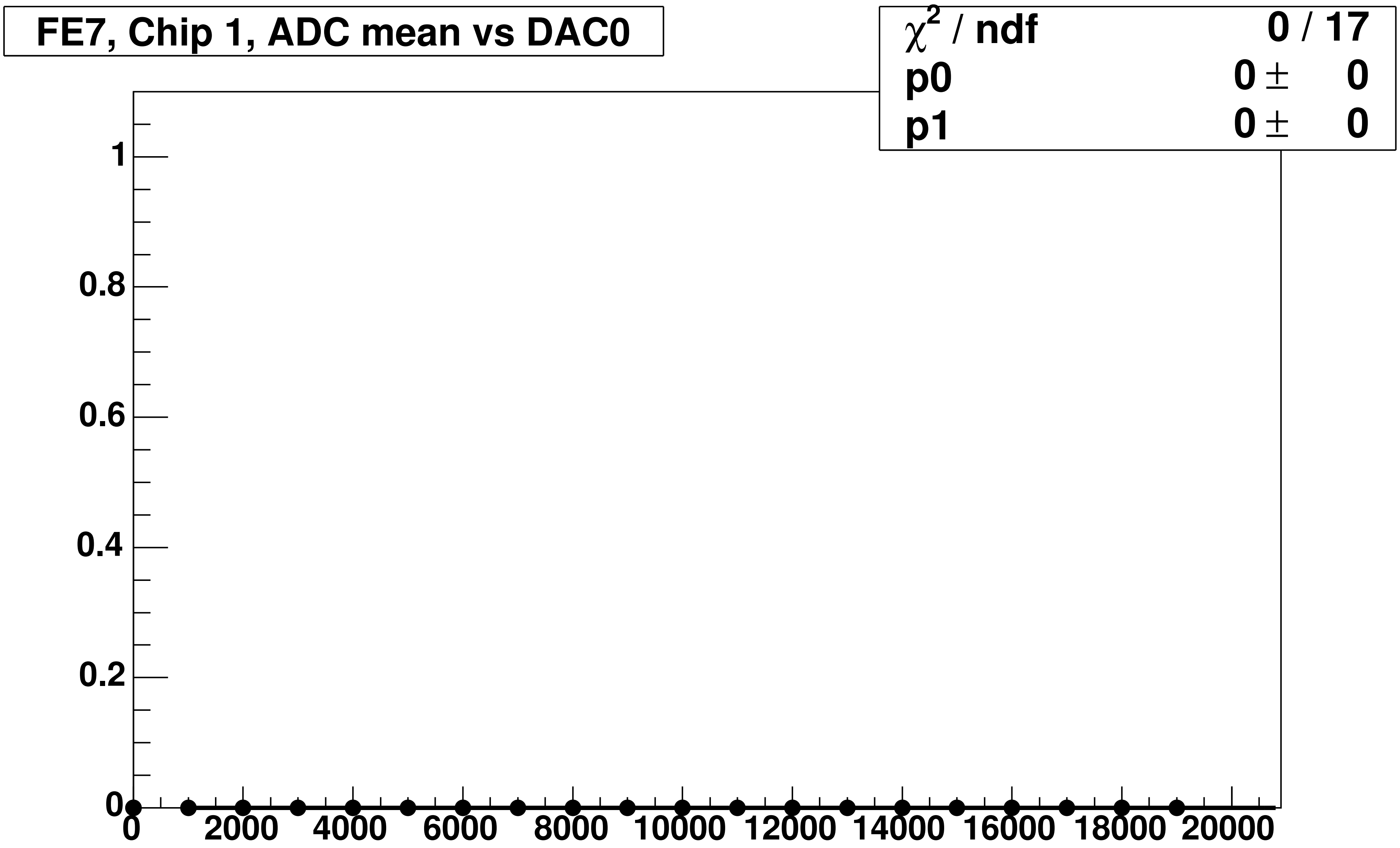
FE7, Chip 1, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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16000
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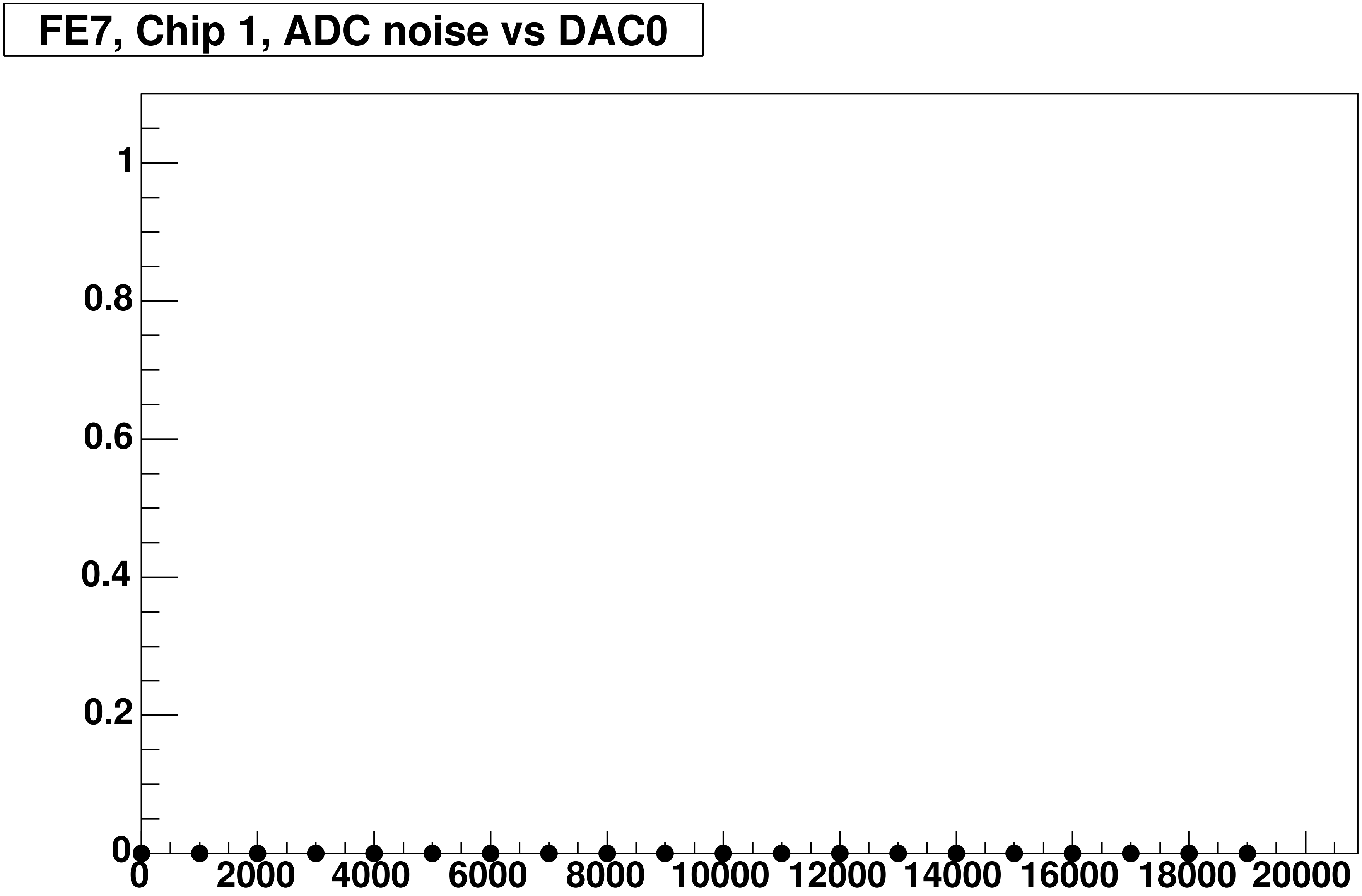
FE7, Chip 1, ADC noise vs DAC0
1
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0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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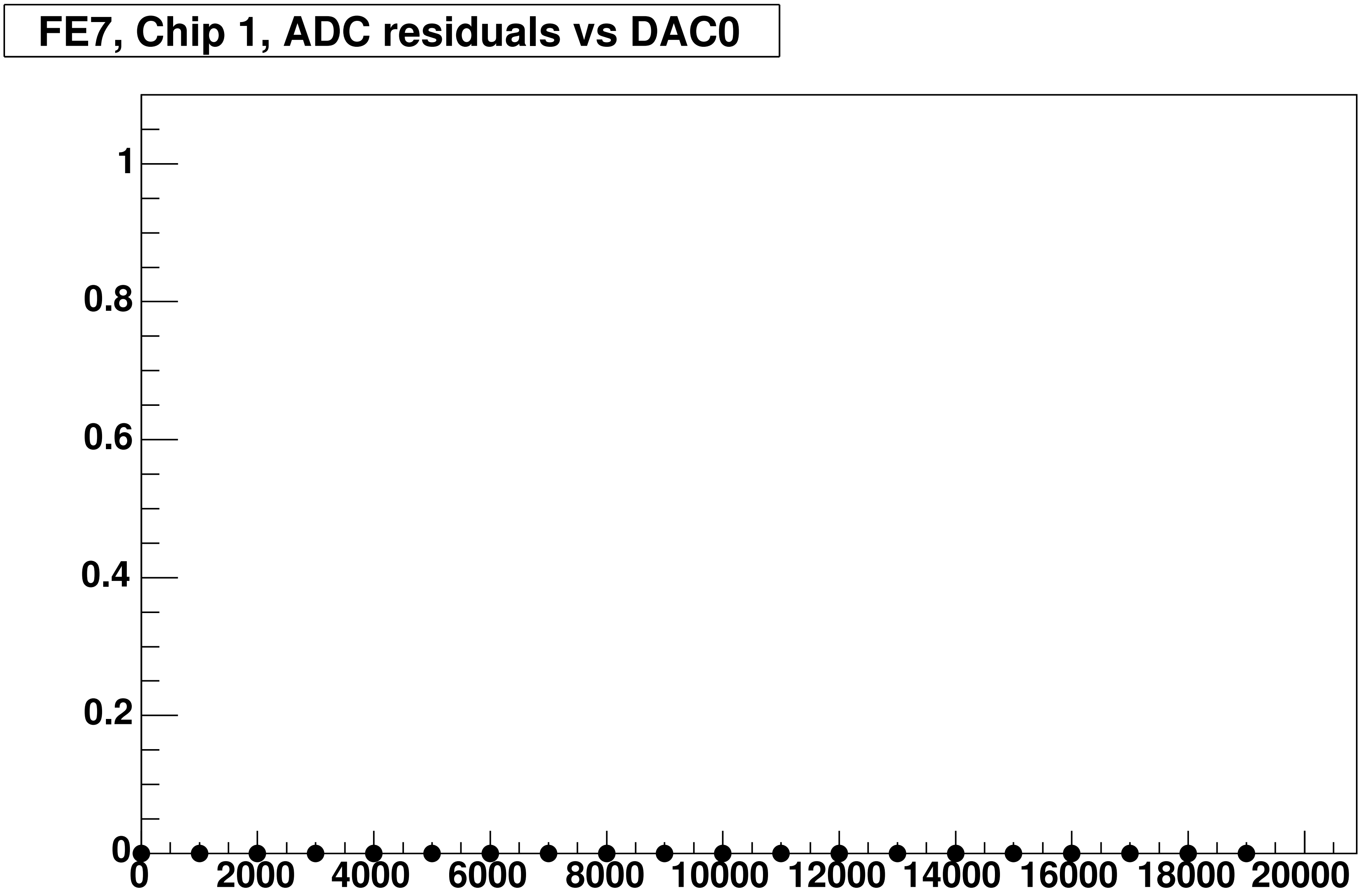
14000
16000
18000
20000


FE7, Chip 1, ADC residuals vs DAC0
1
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0.6
0.4
0.2
0
0
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4000
6000
8000
10000
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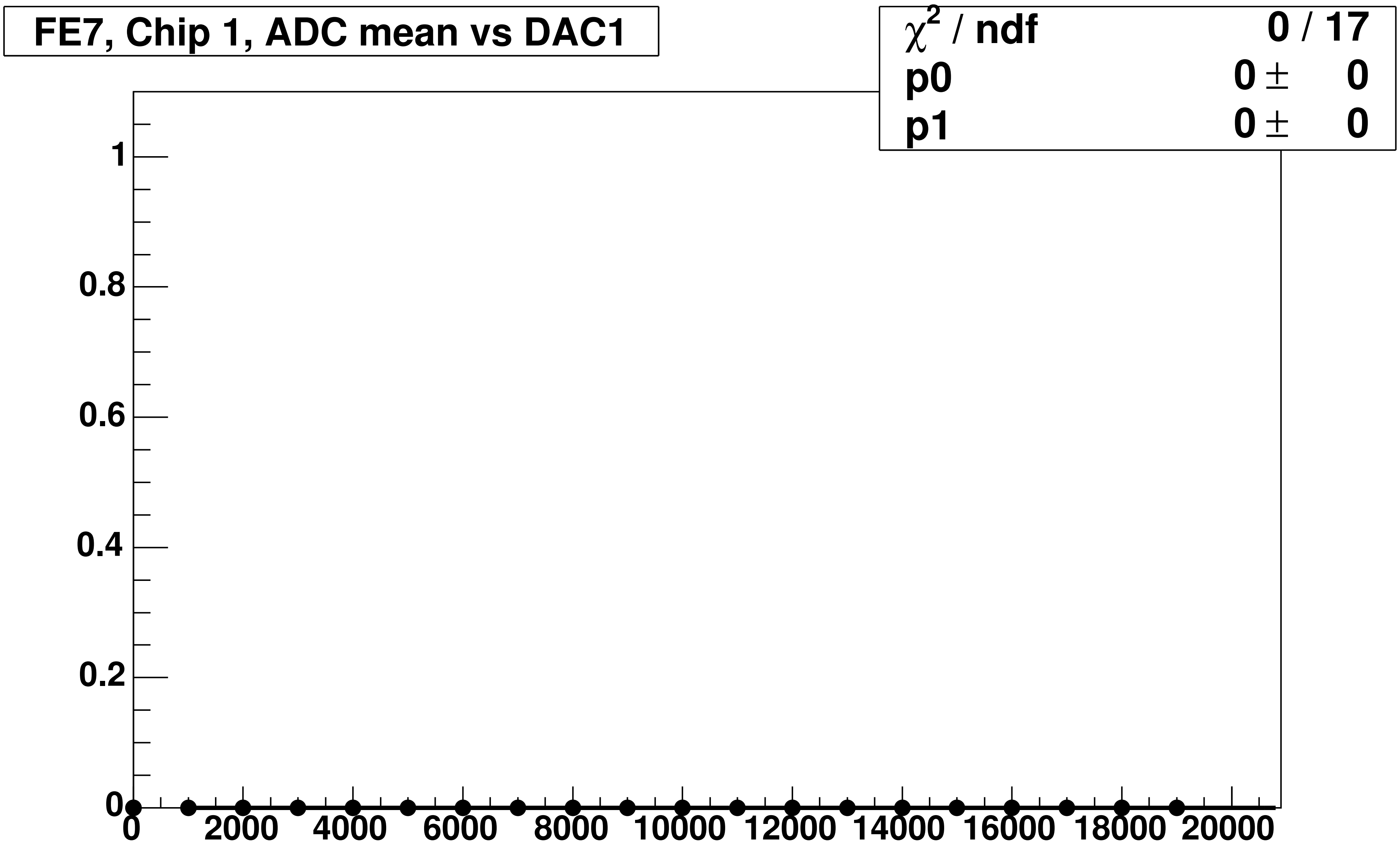
16000
18000
20000


FE7, Chip 1, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
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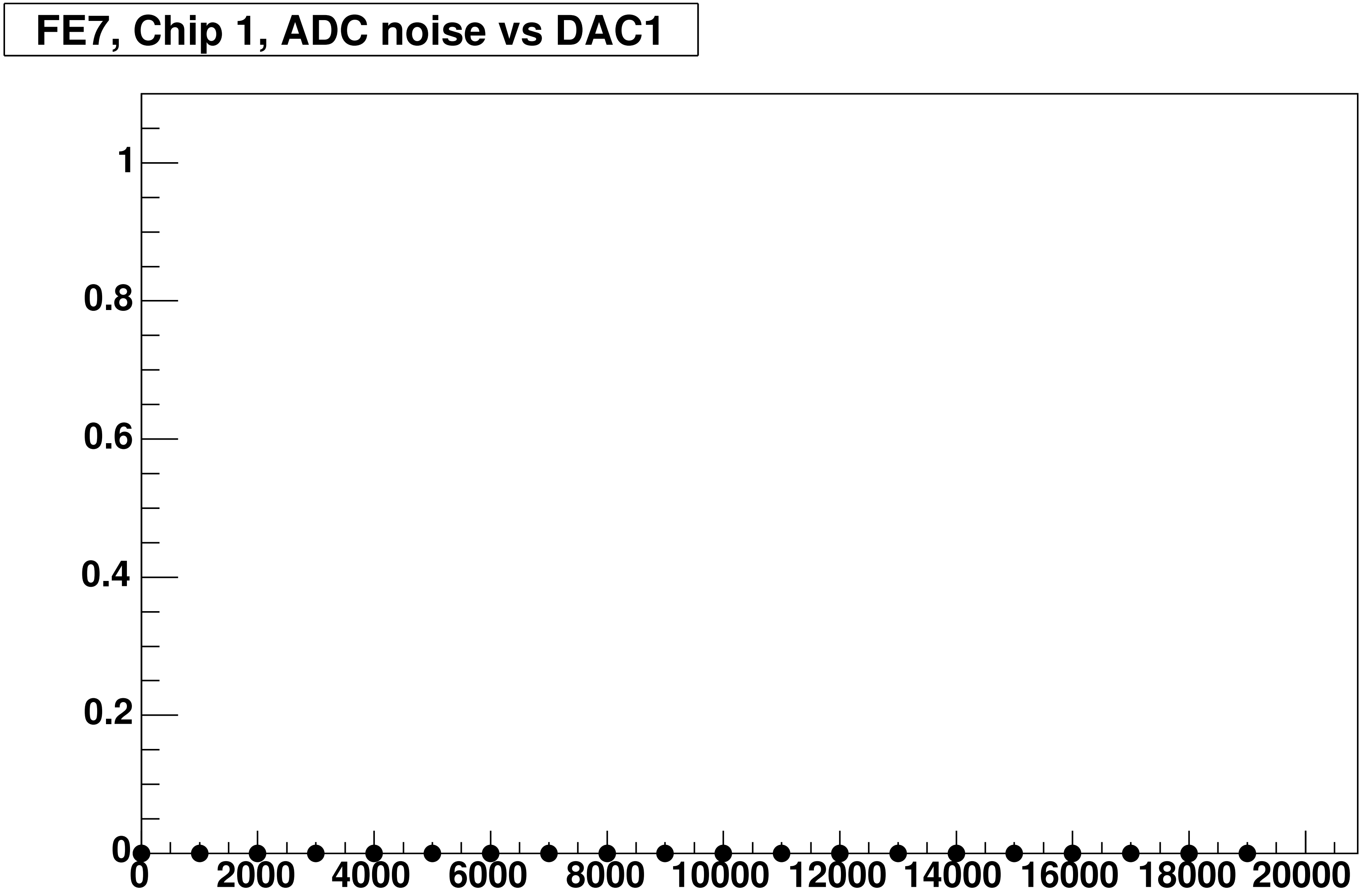
18000
20000


FE7, Chip 1, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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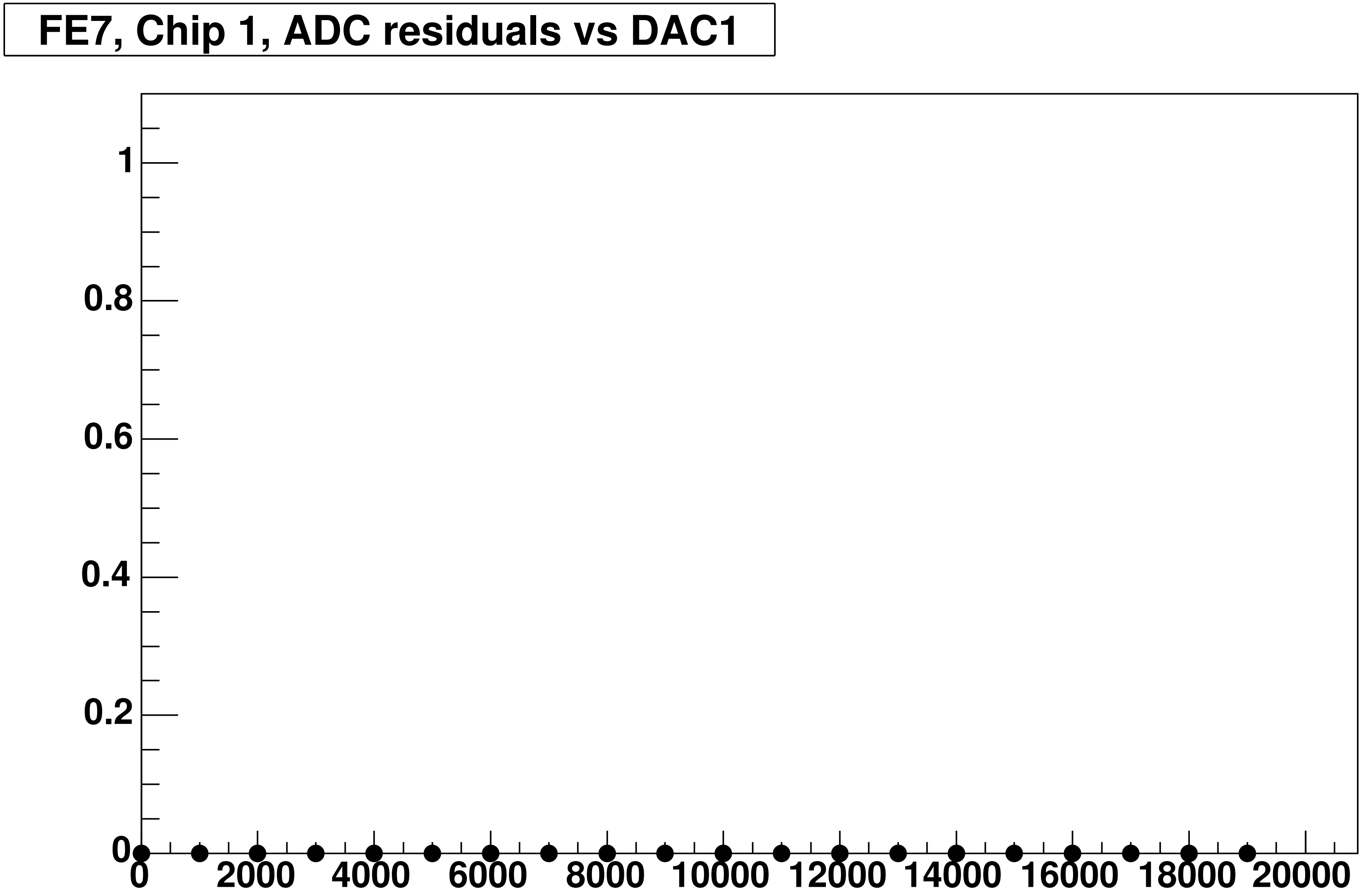
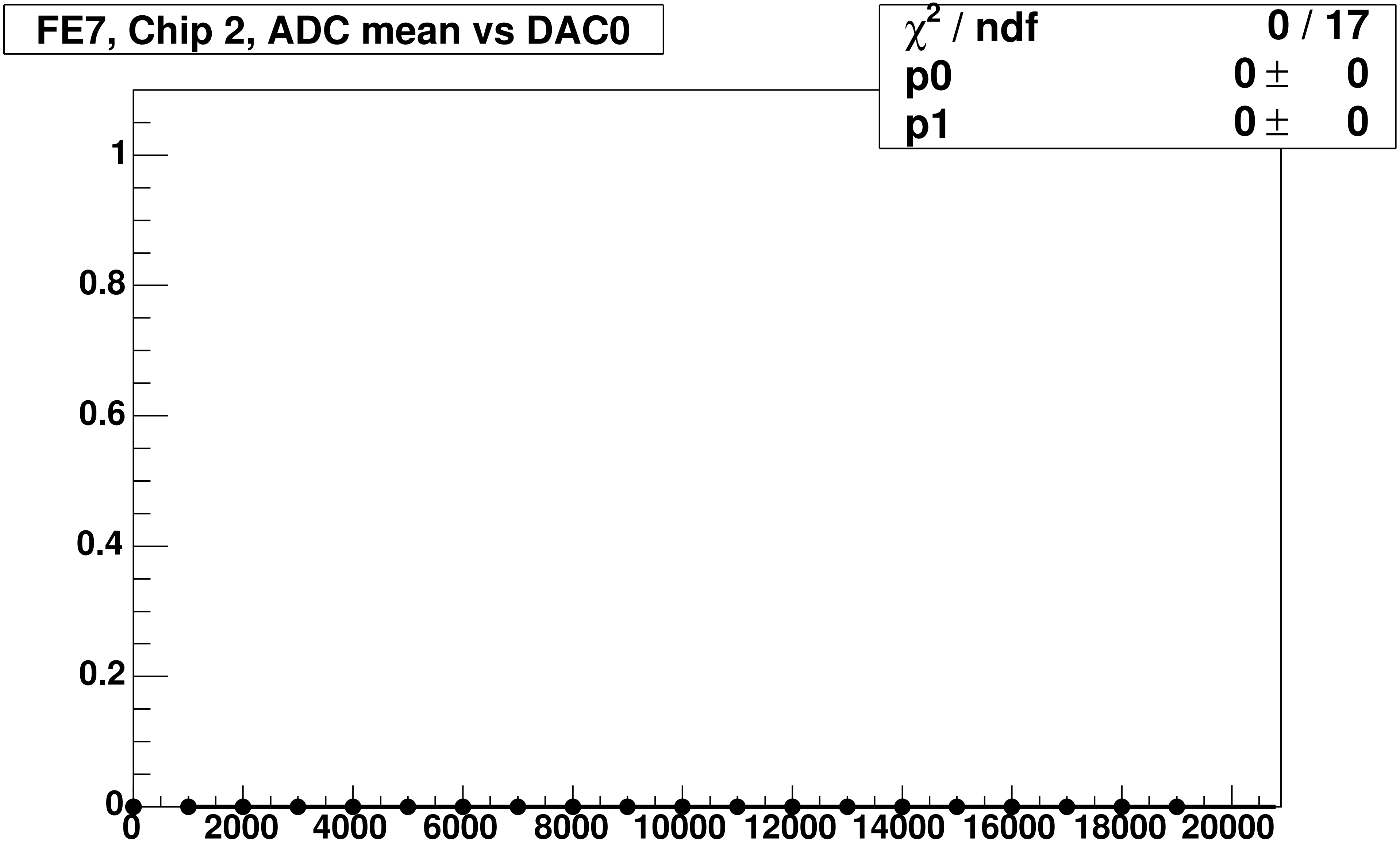
14000
16000
18000
20000

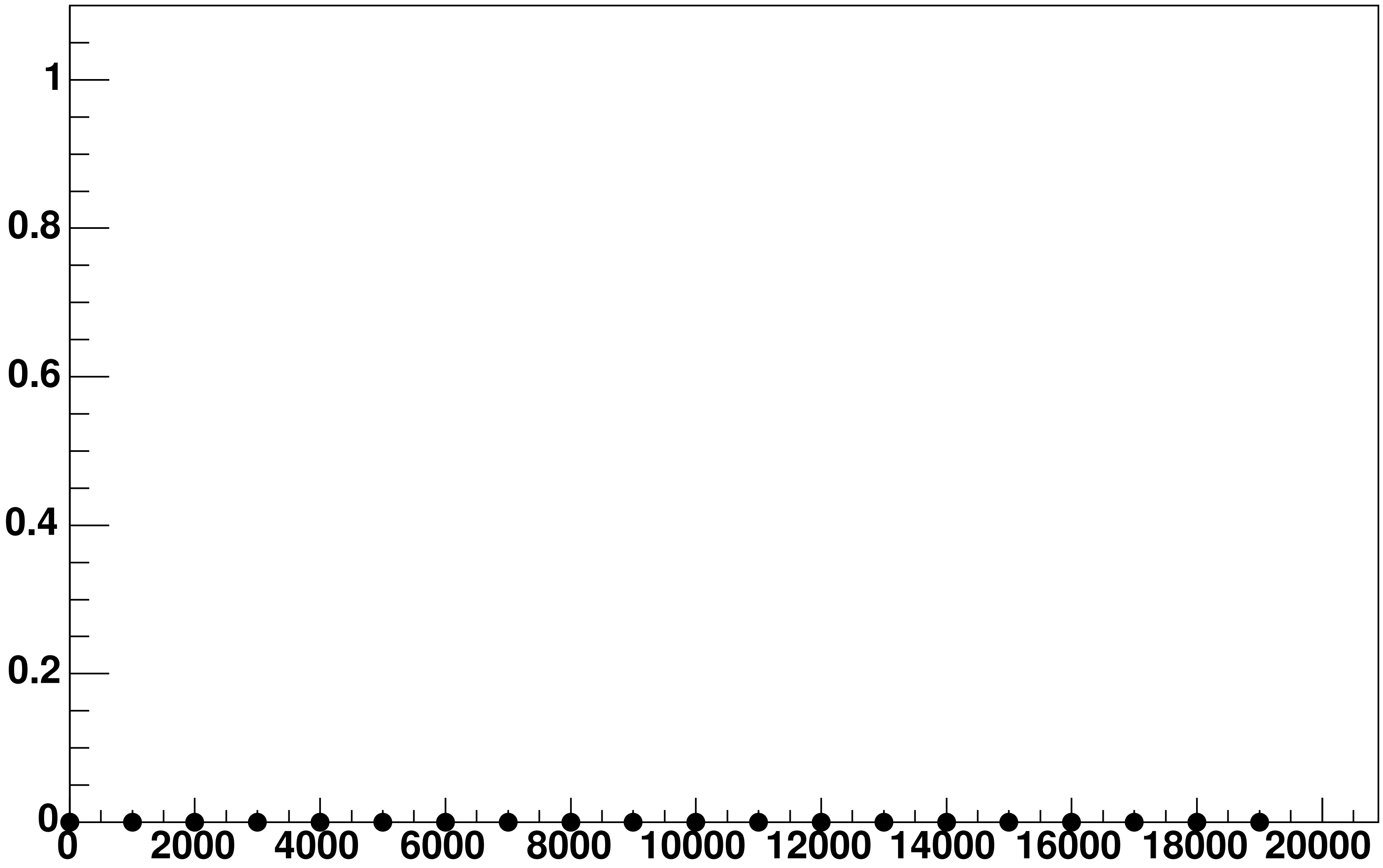


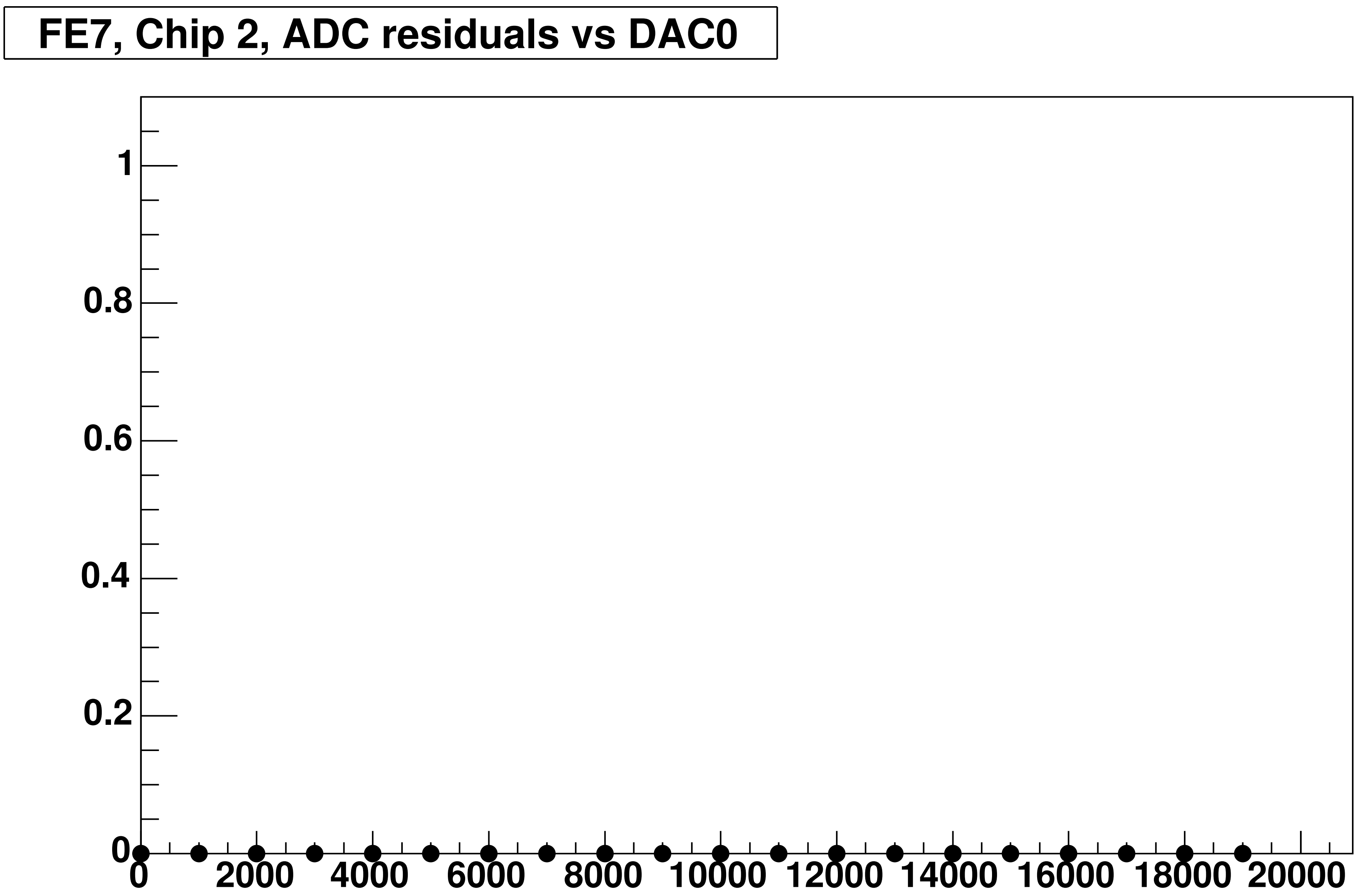
FE7, Chip 1, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

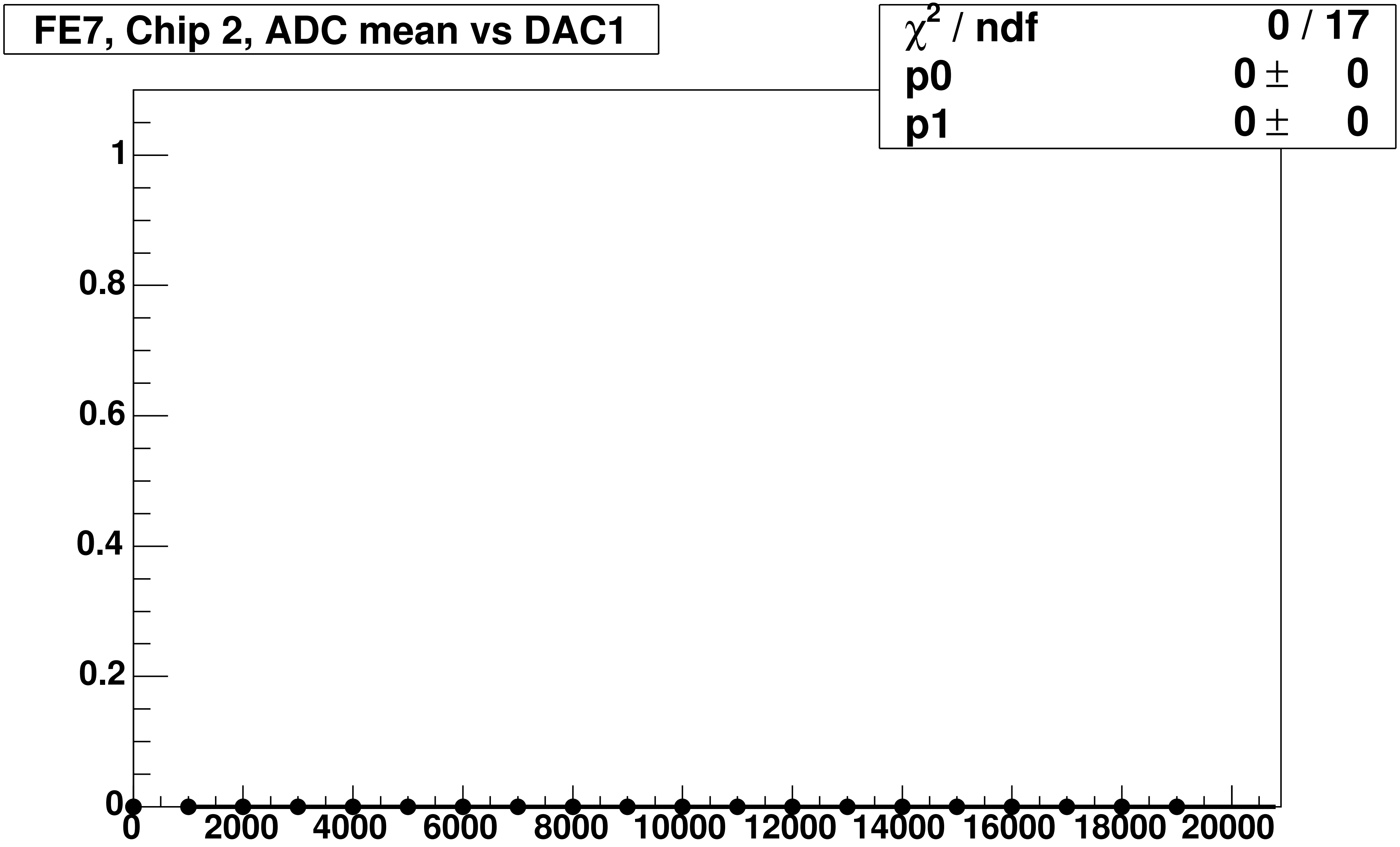


FE7, Chip 2, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

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
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE7, Chip 2, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
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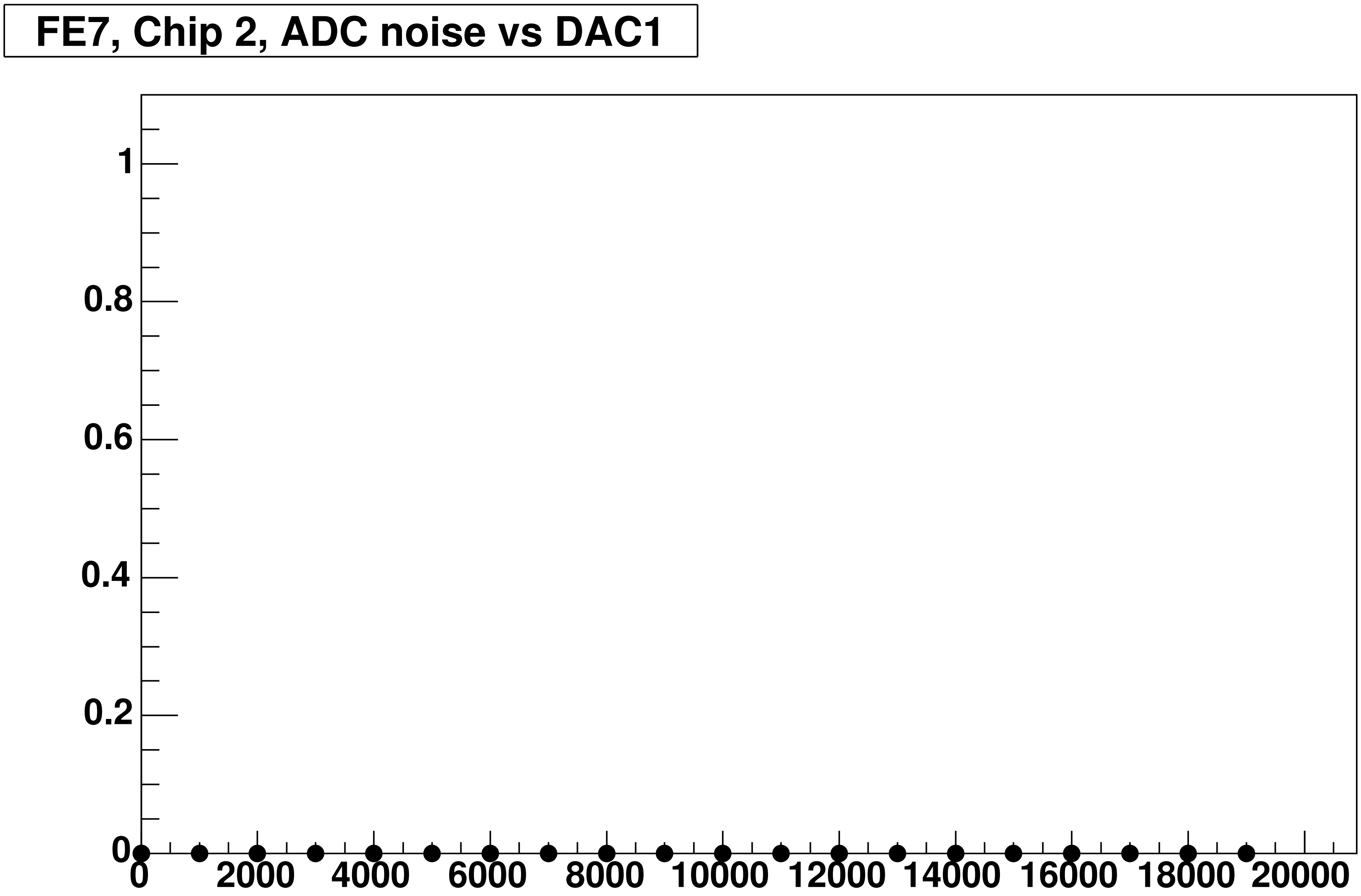
20000


FE7, Chip 2, ADC noise vs DAC1
0
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0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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14000
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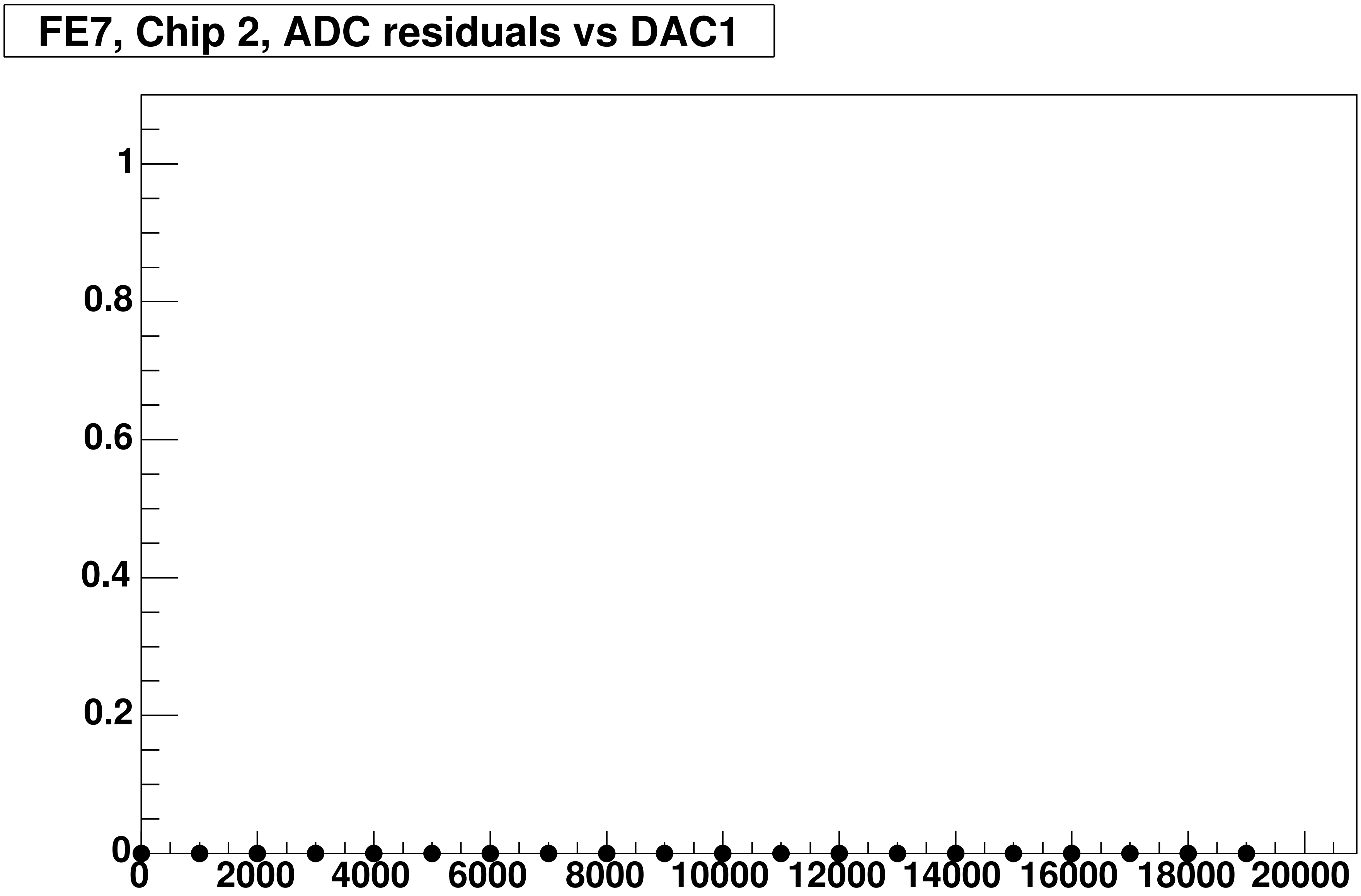
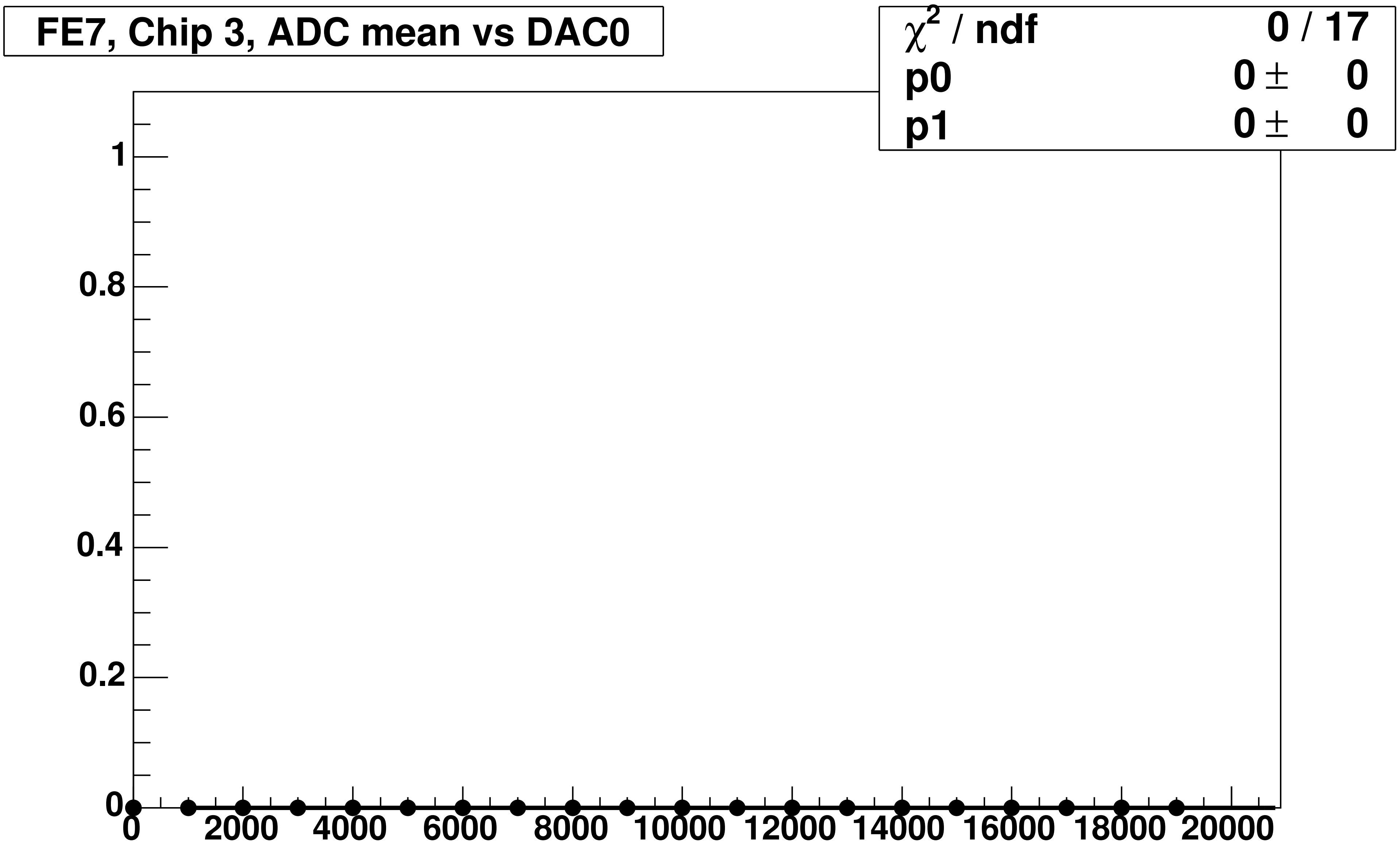
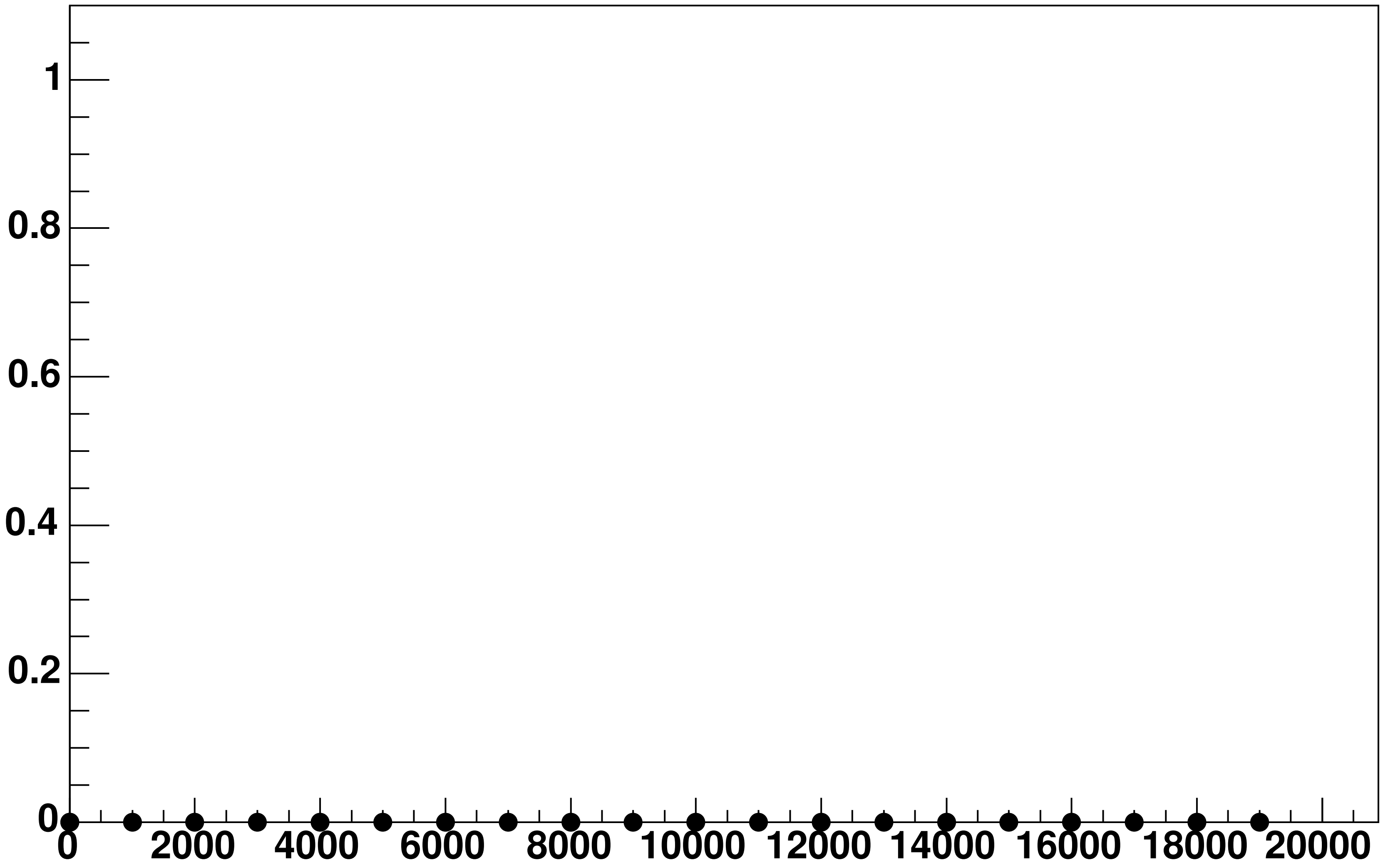
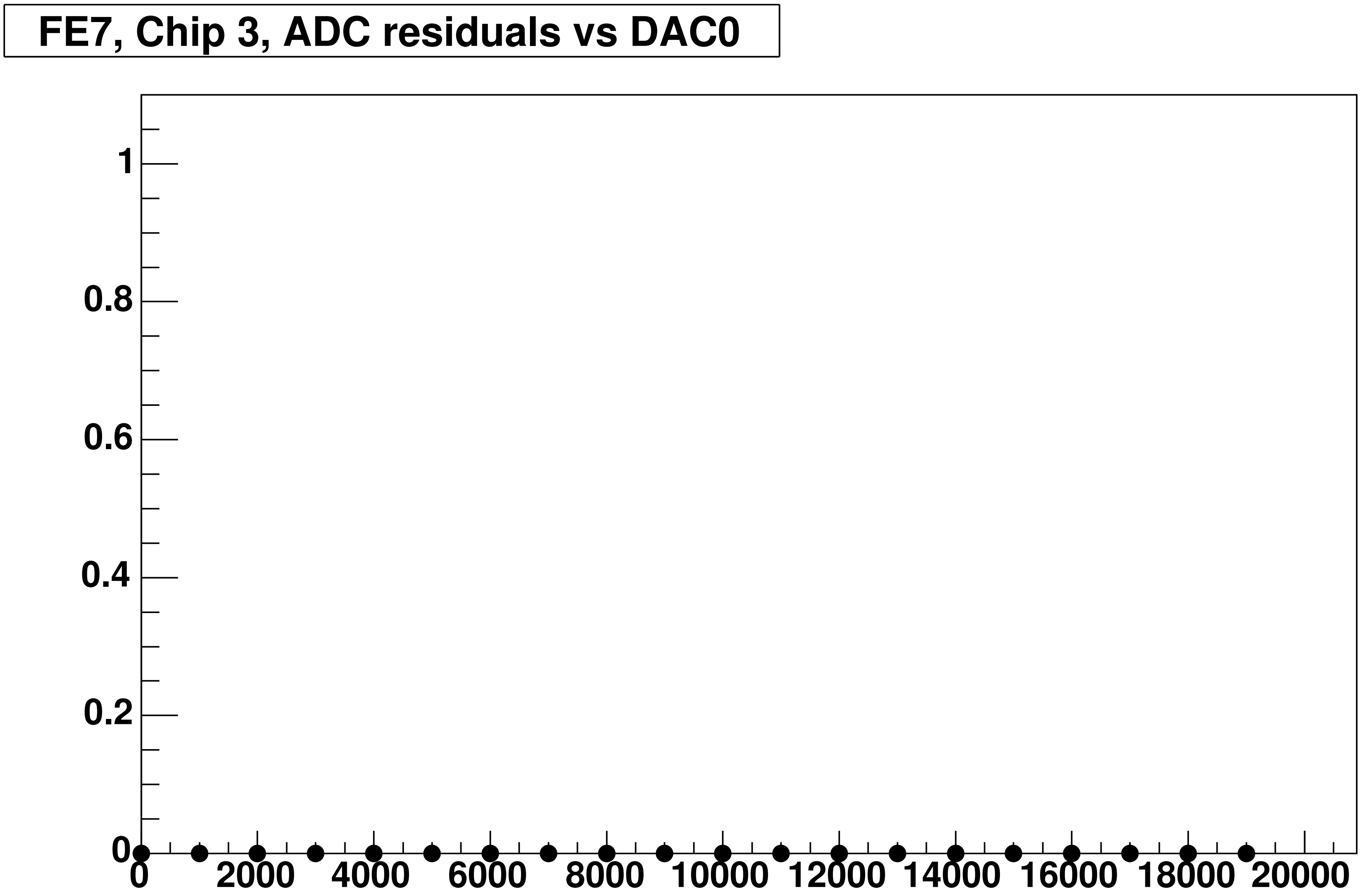
18000
20000

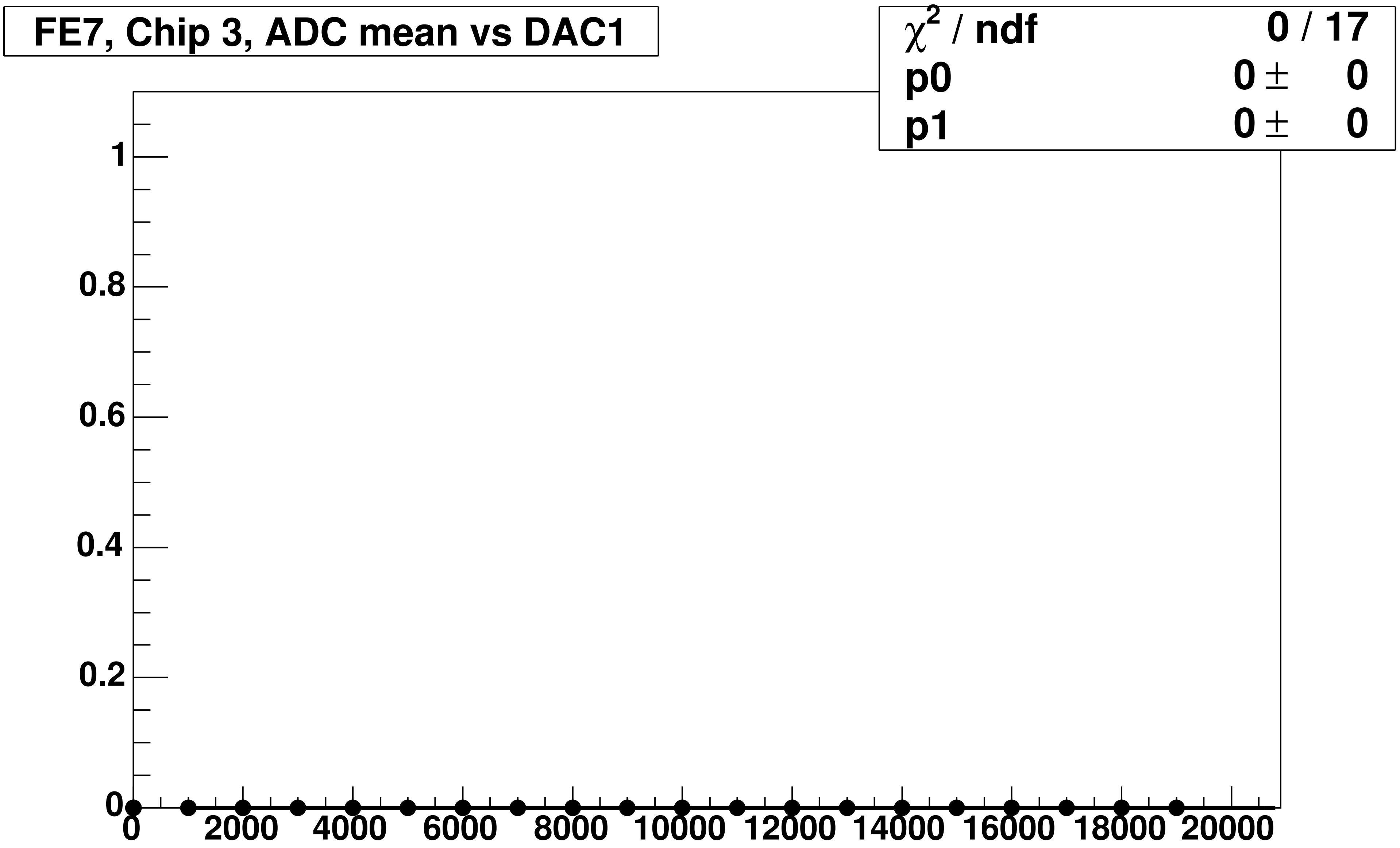

FE7, Chip 2, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE7, Chip 3, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

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
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE7, Chip 3, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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16000
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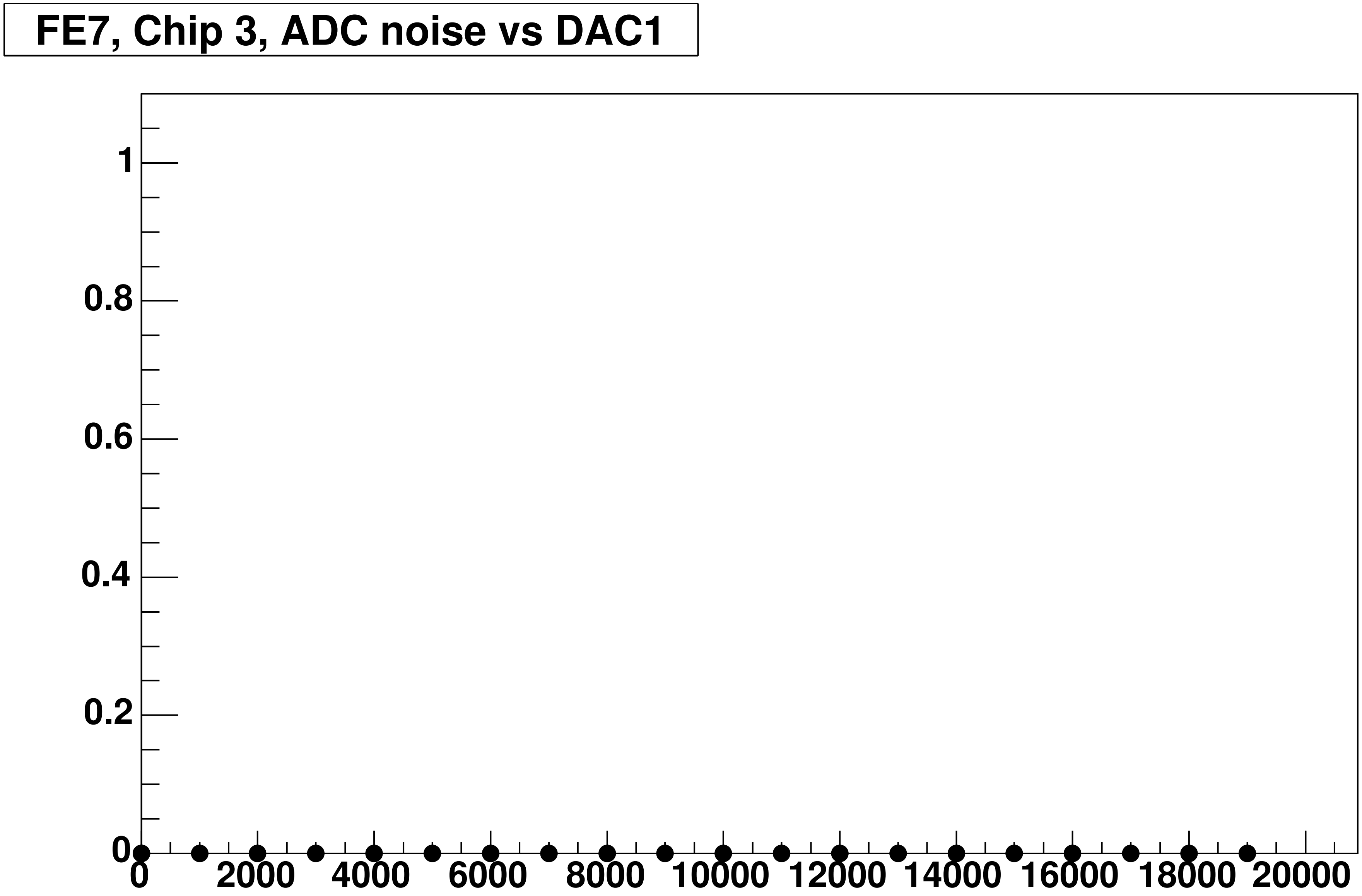
FE7, Chip 3, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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14000
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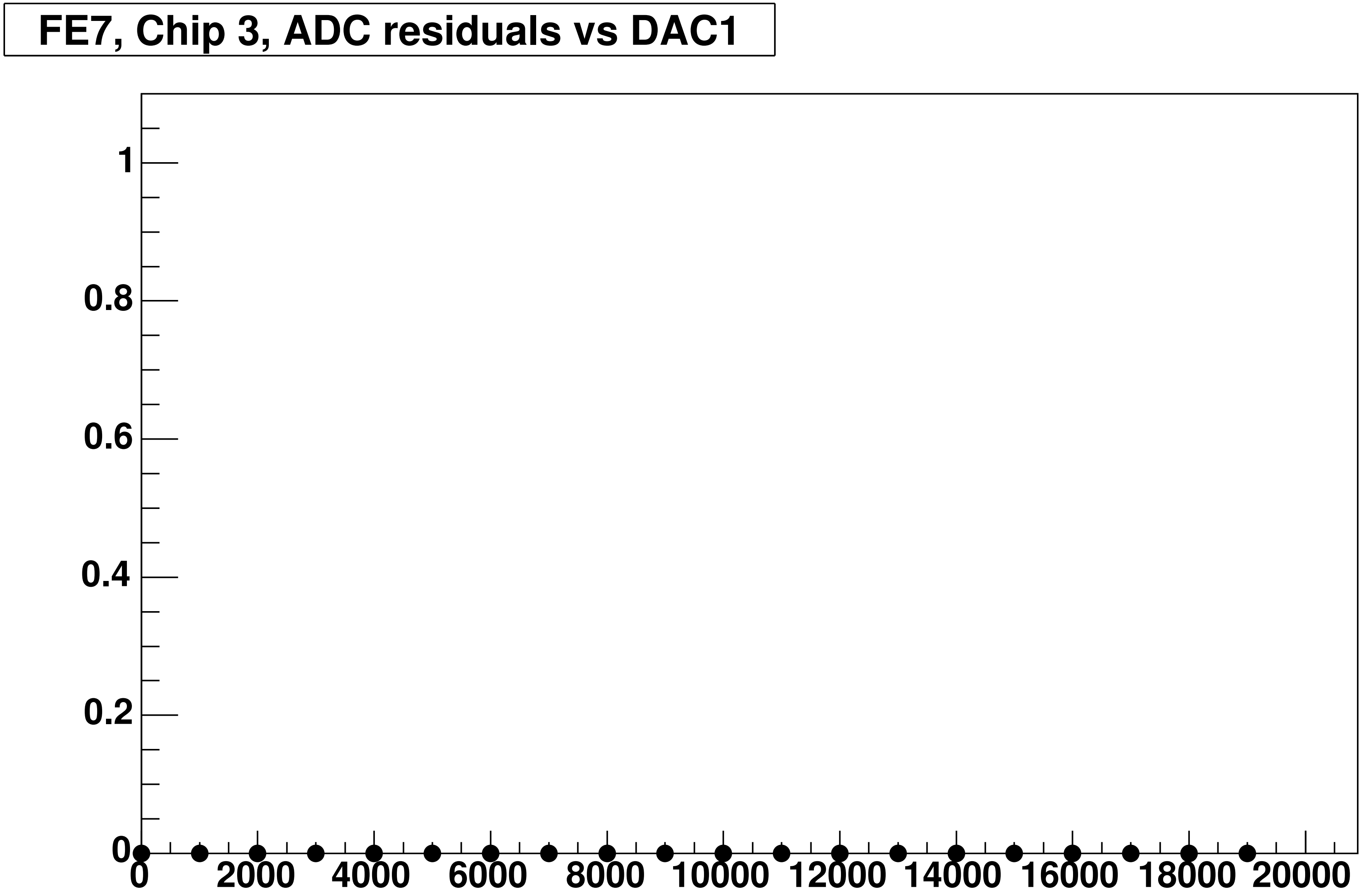
20000


FE7, Chip 3, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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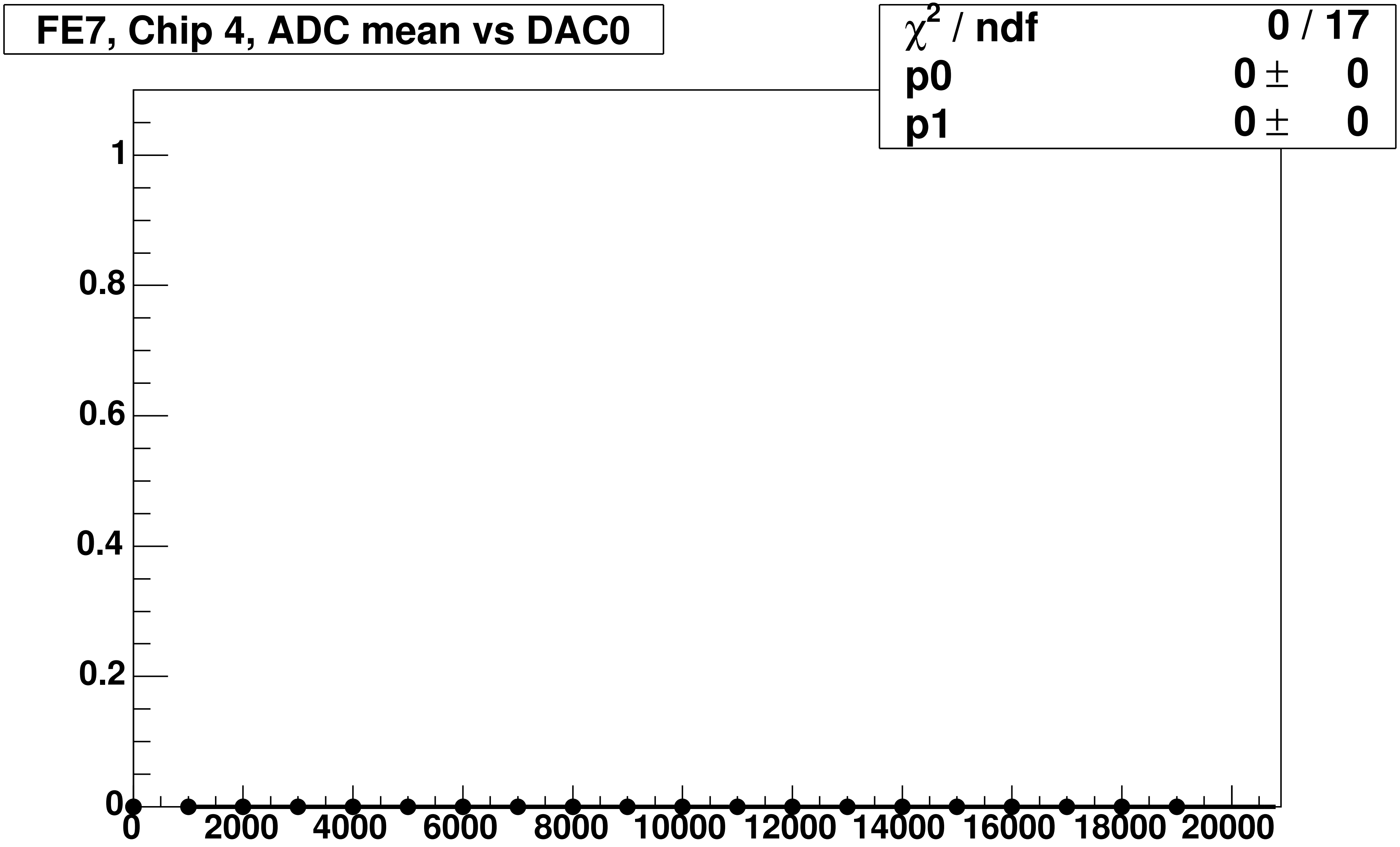
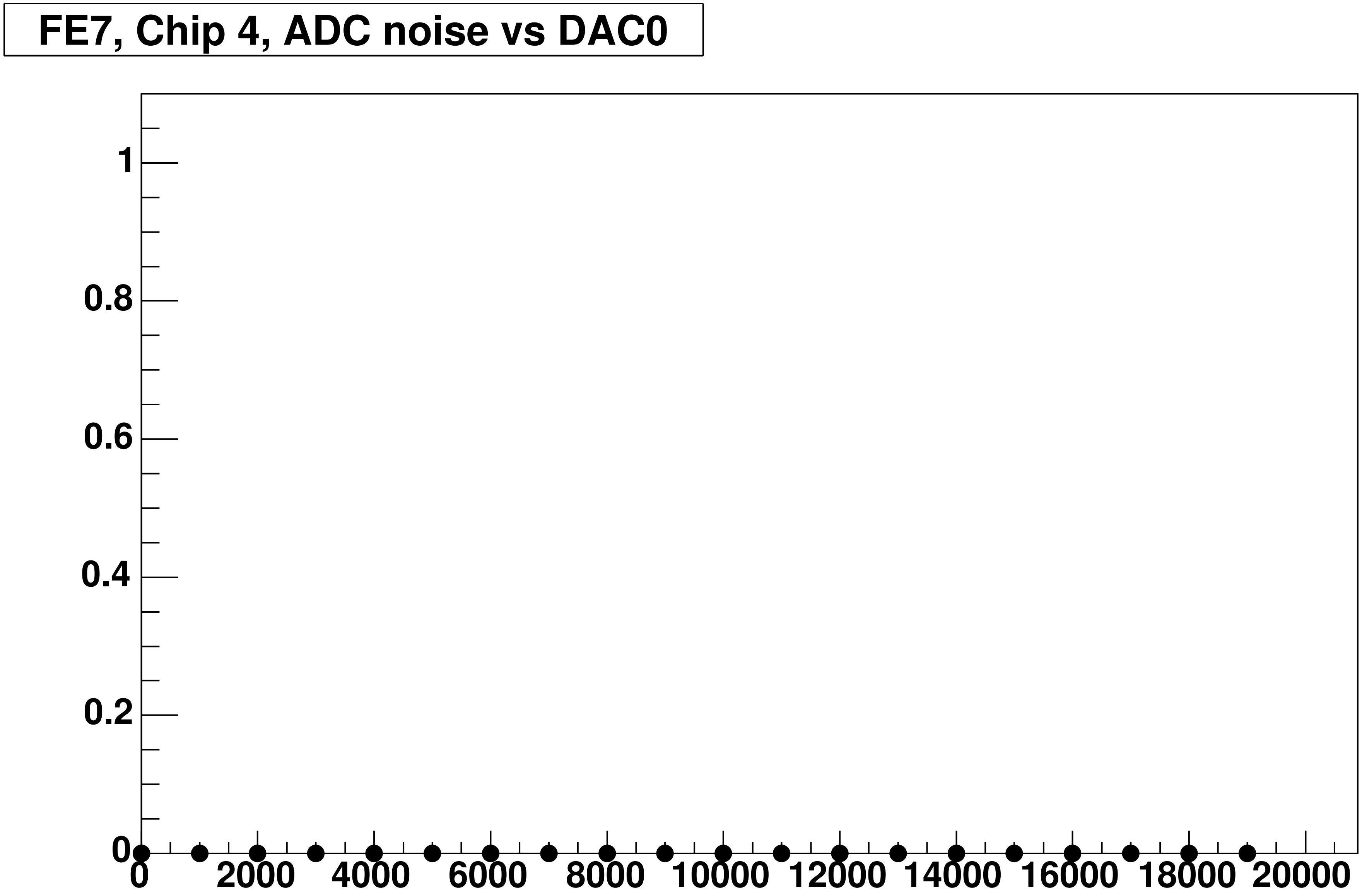
14000
16000
18000
20000



FE7, Chip 4, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE7, Chip 4, ADC noise vs DAC0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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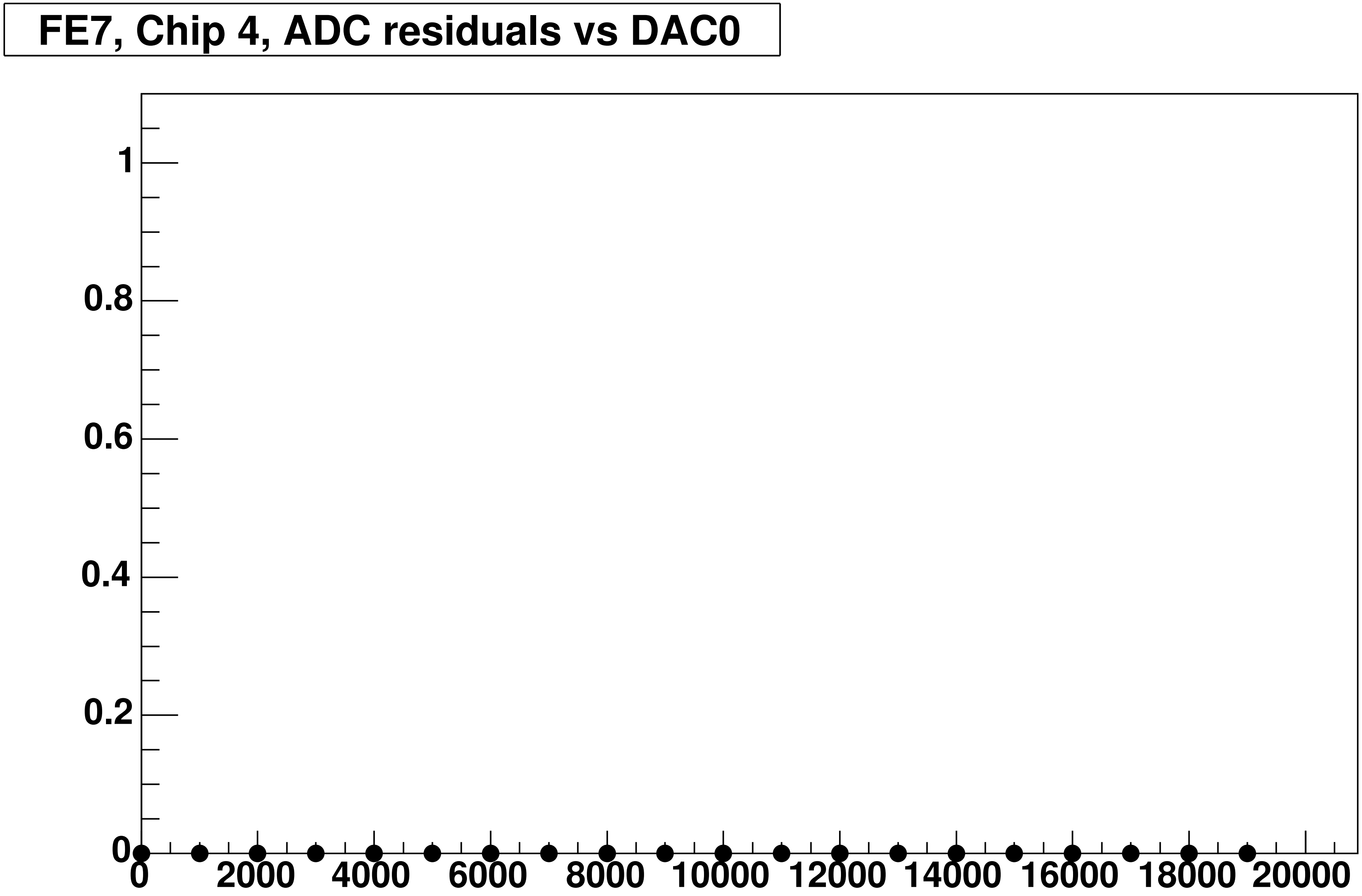
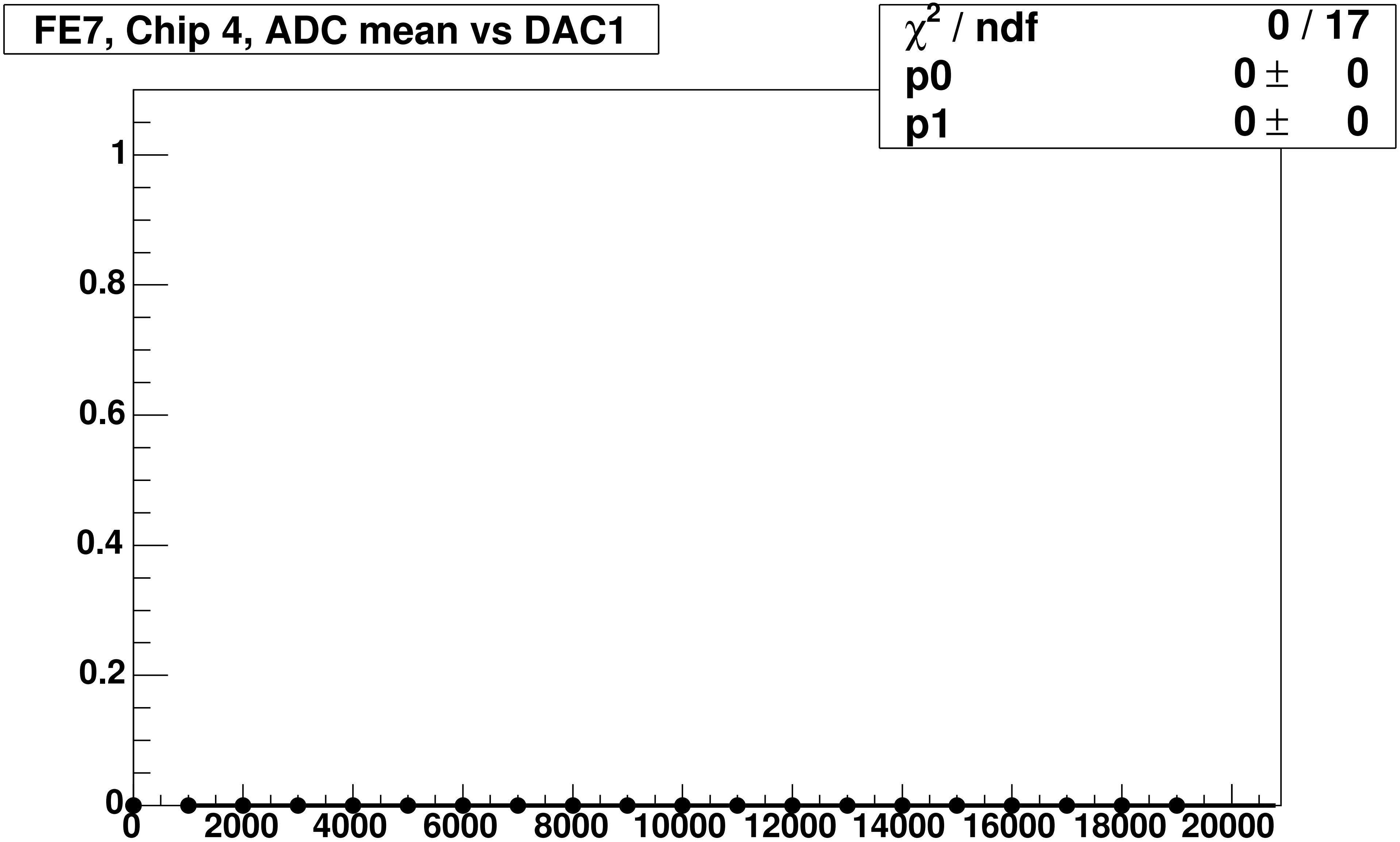
14000
16000
18000
20000


FE7, Chip 4, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



FE7, Chip 4, ADC mean vs DAC1
χ² / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
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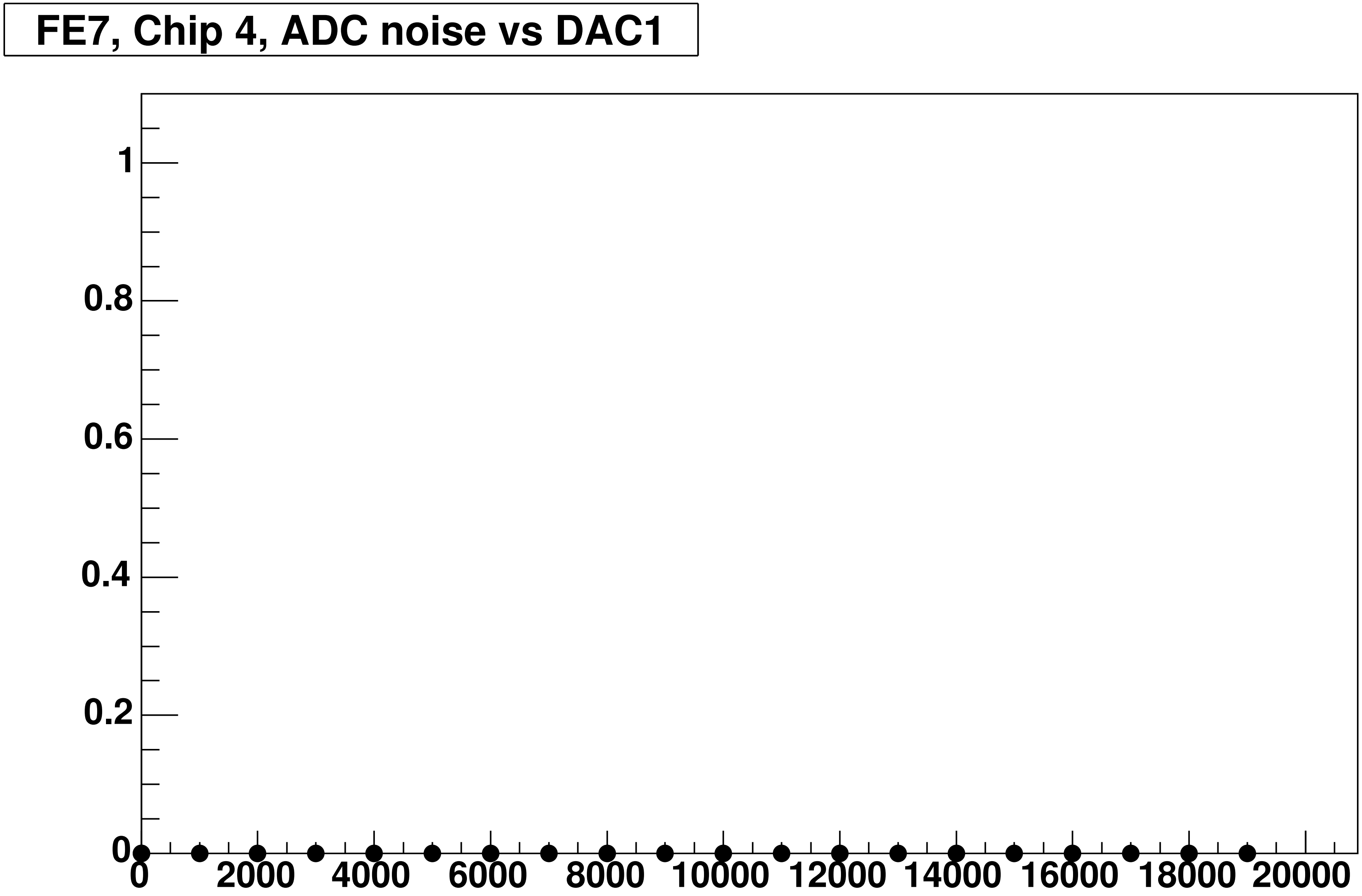
FE7, Chip 4, ADC noise vs DAC1
1
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0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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14000
16000
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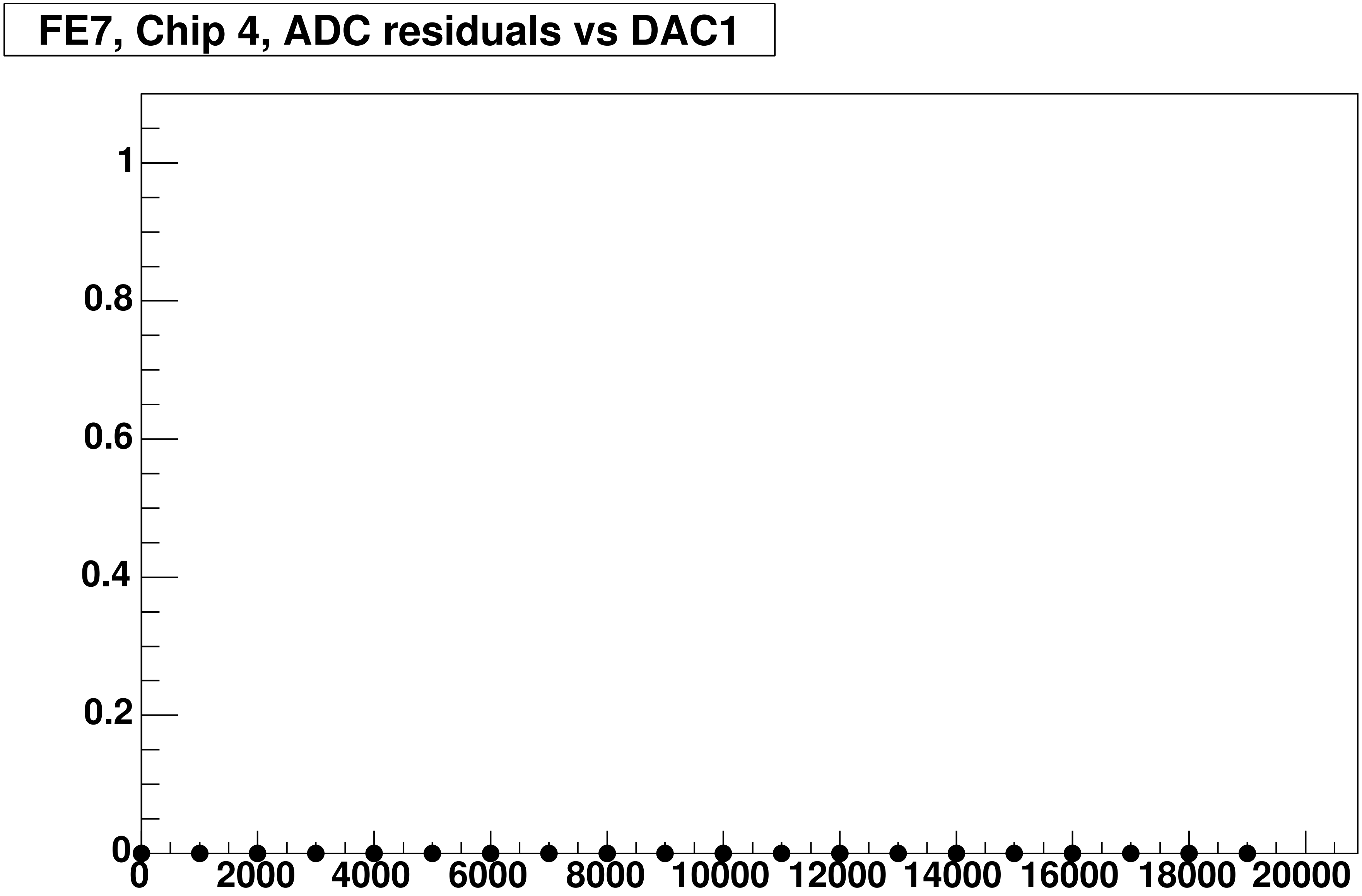
20000


FE7, Chip 4, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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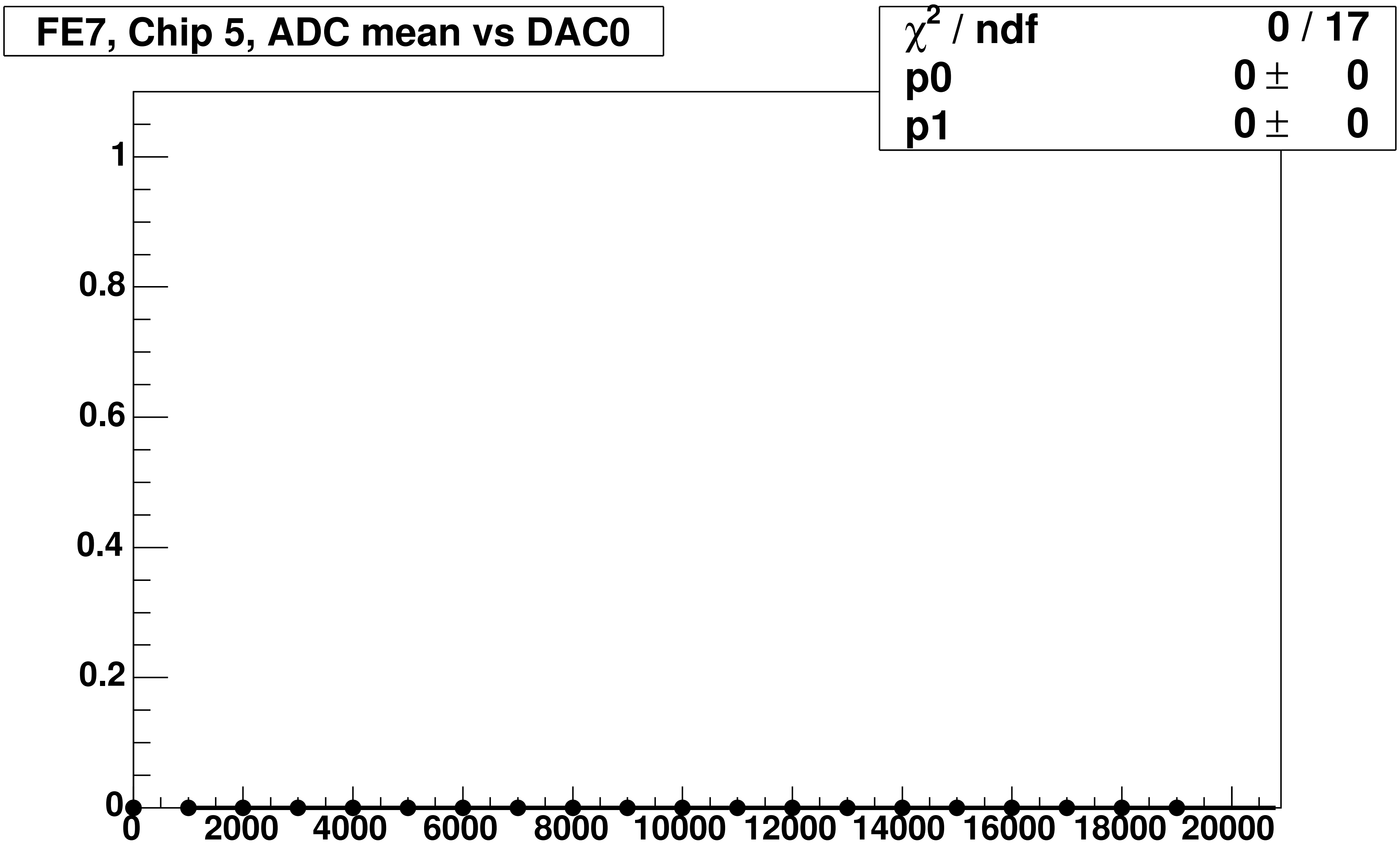
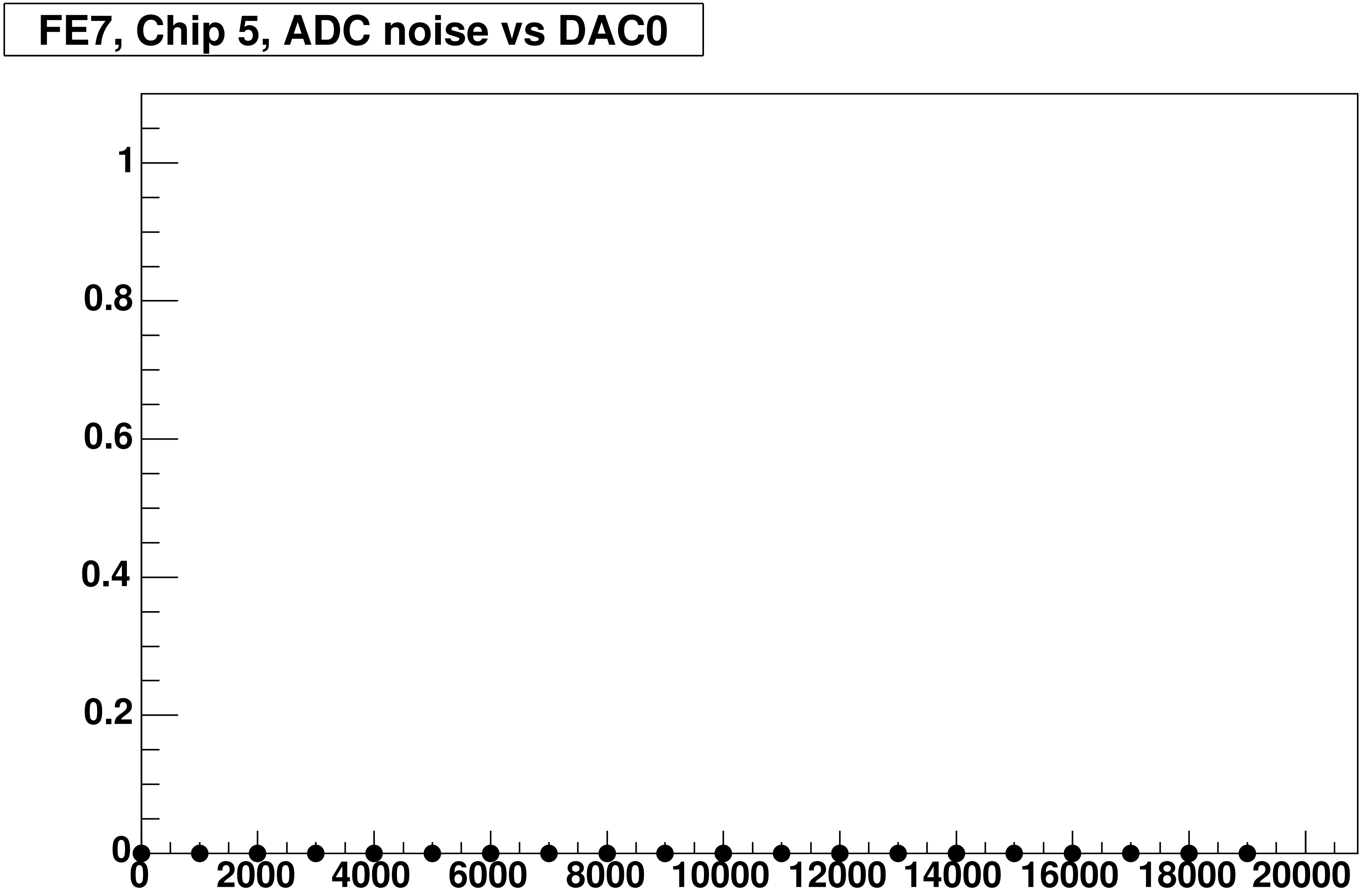
14000
16000
18000
20000



FE7, Chip 5, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



FE7, Chip 5, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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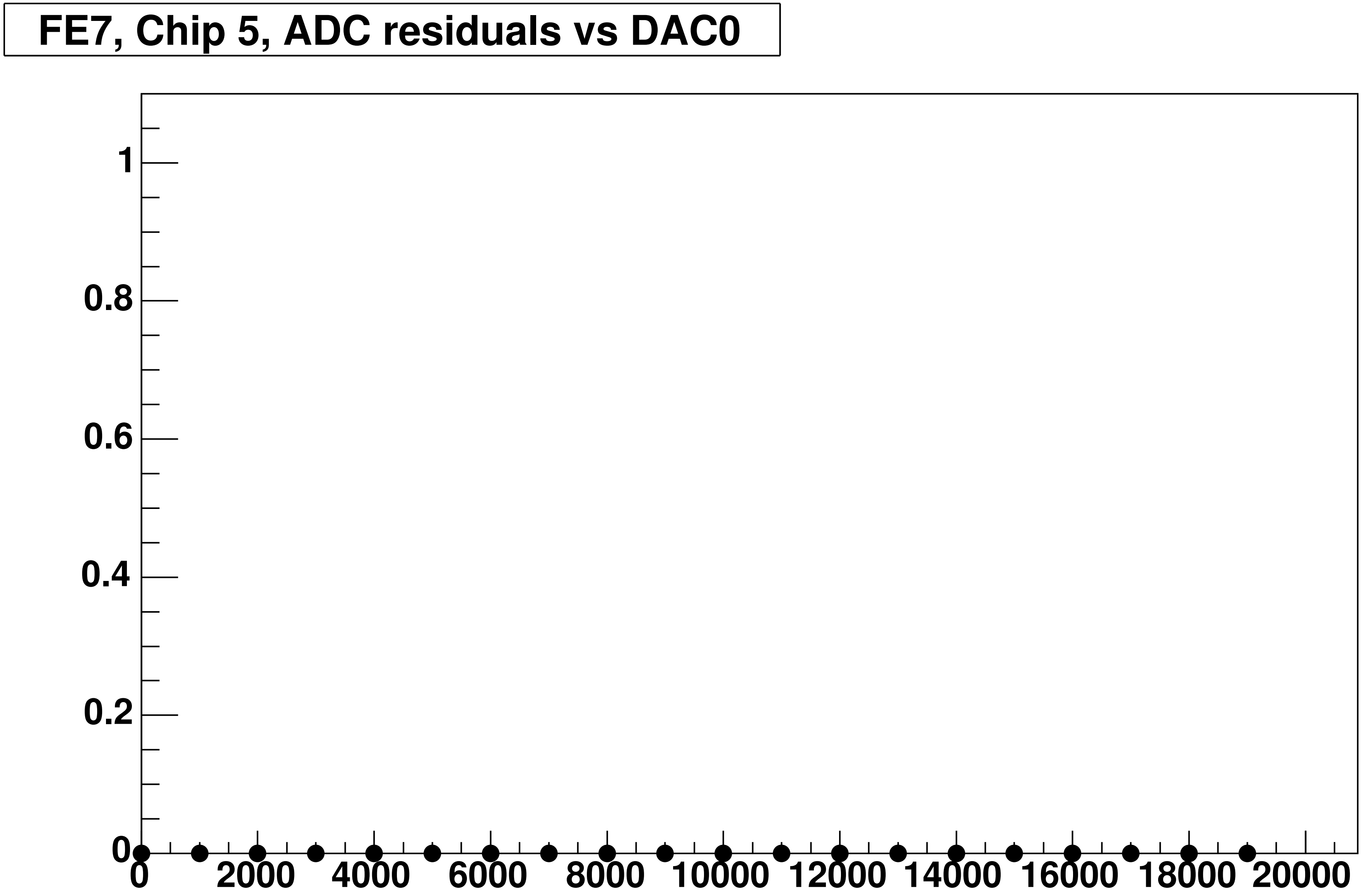
14000
16000
18000
20000


FE7, Chip 5, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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14000
16000
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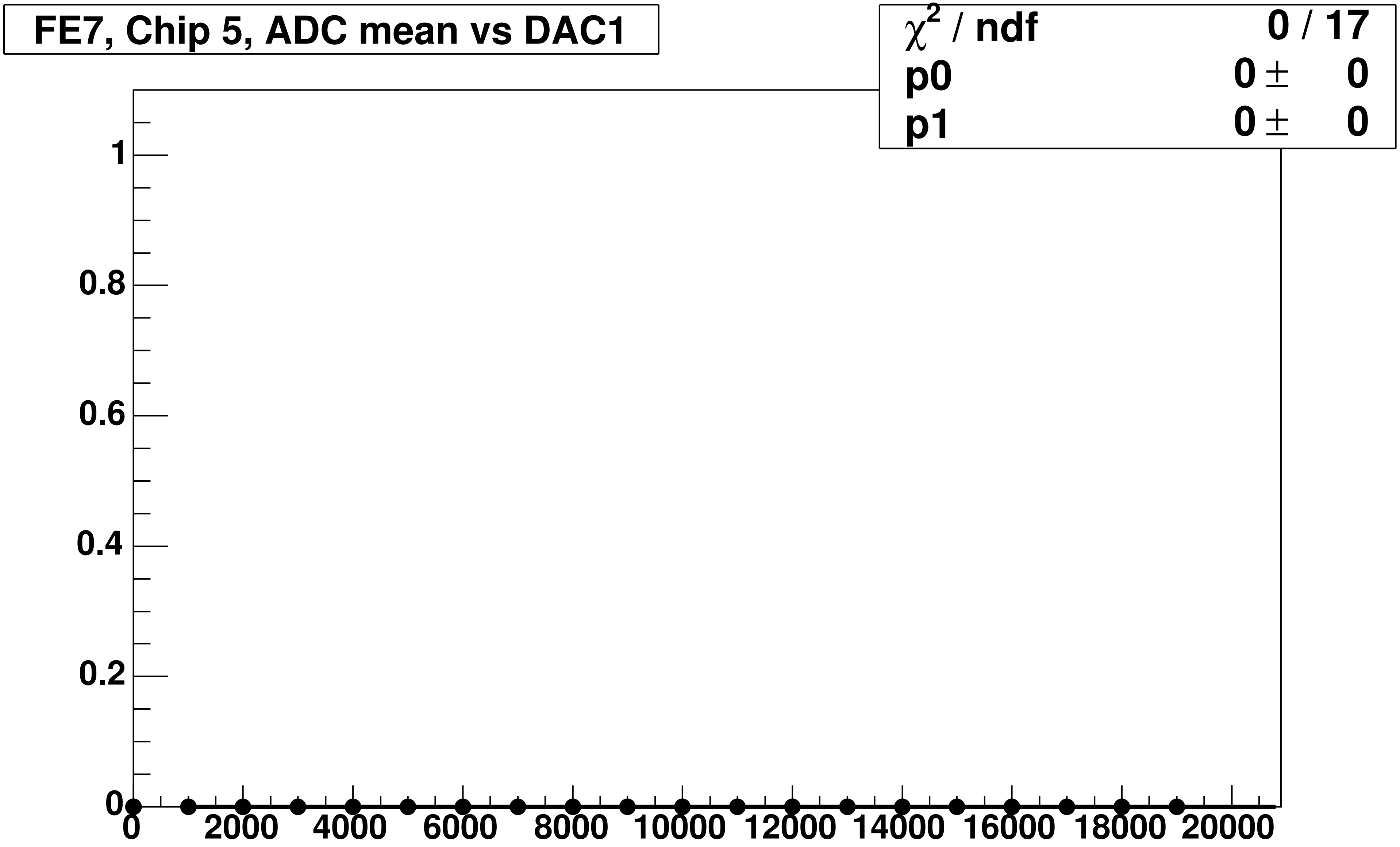
20000



FE7, Chip 5, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
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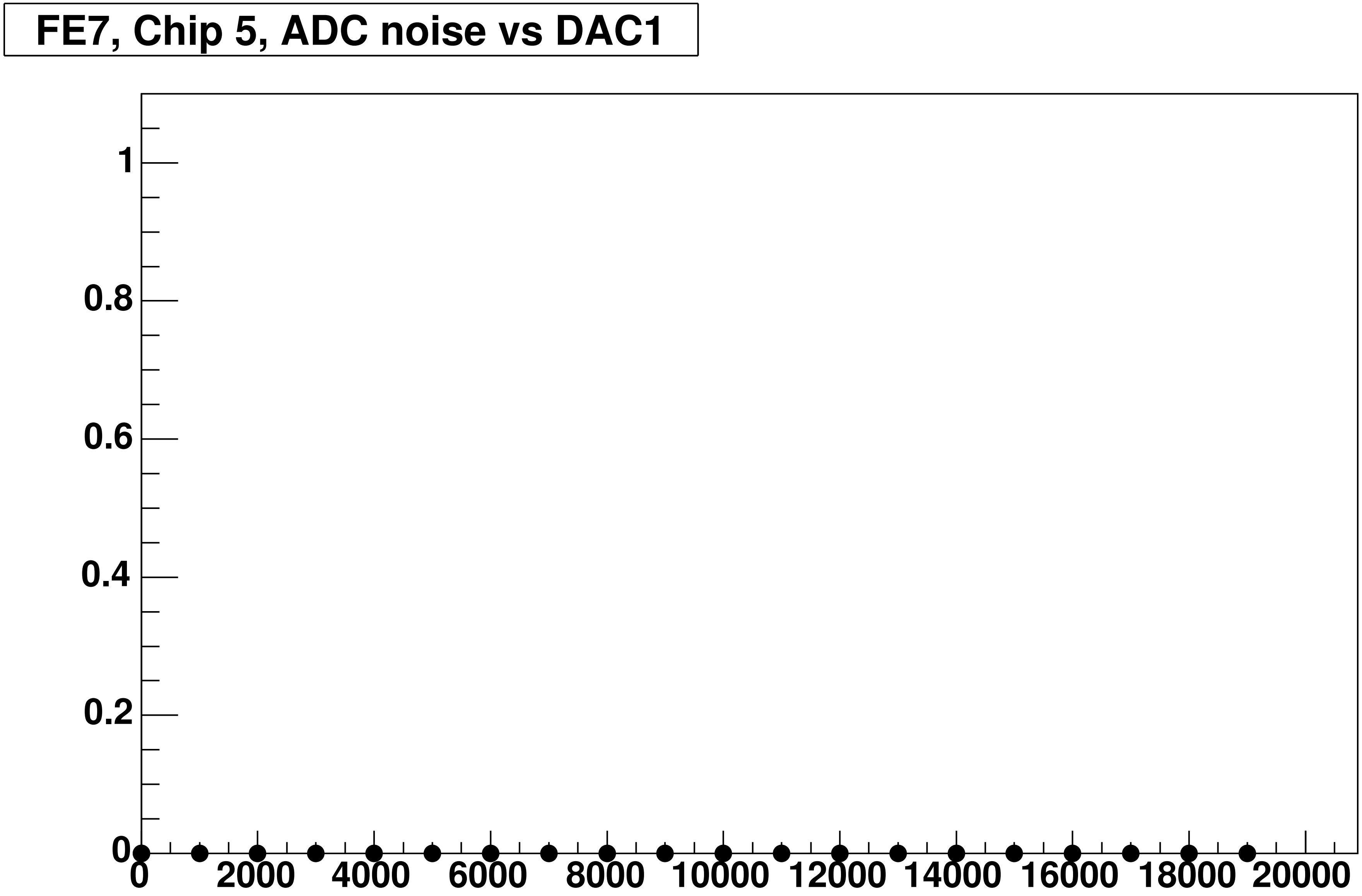
20000


FE7, Chip 5, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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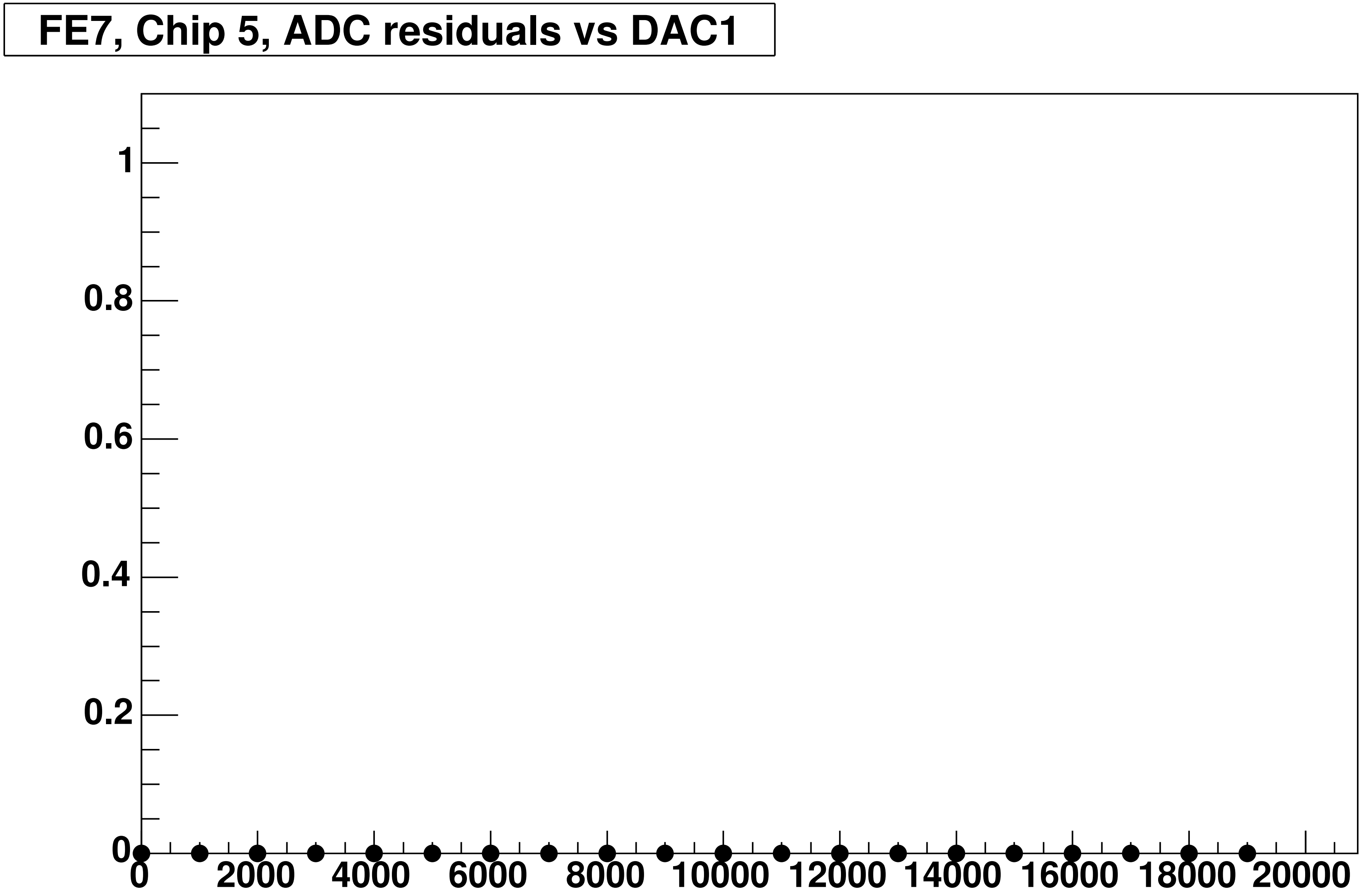
14000
16000
18000
20000


FE7, Chip 5, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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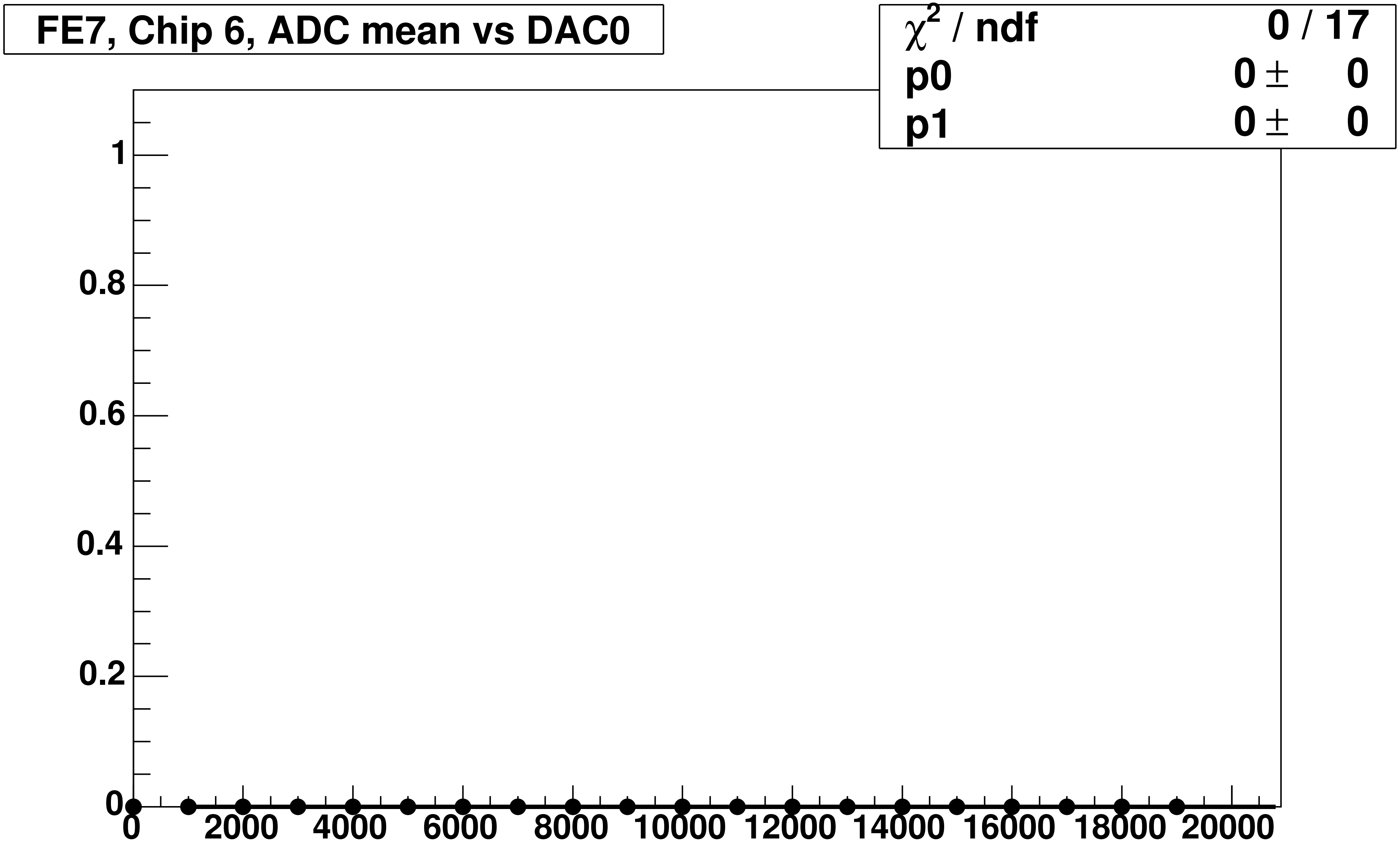
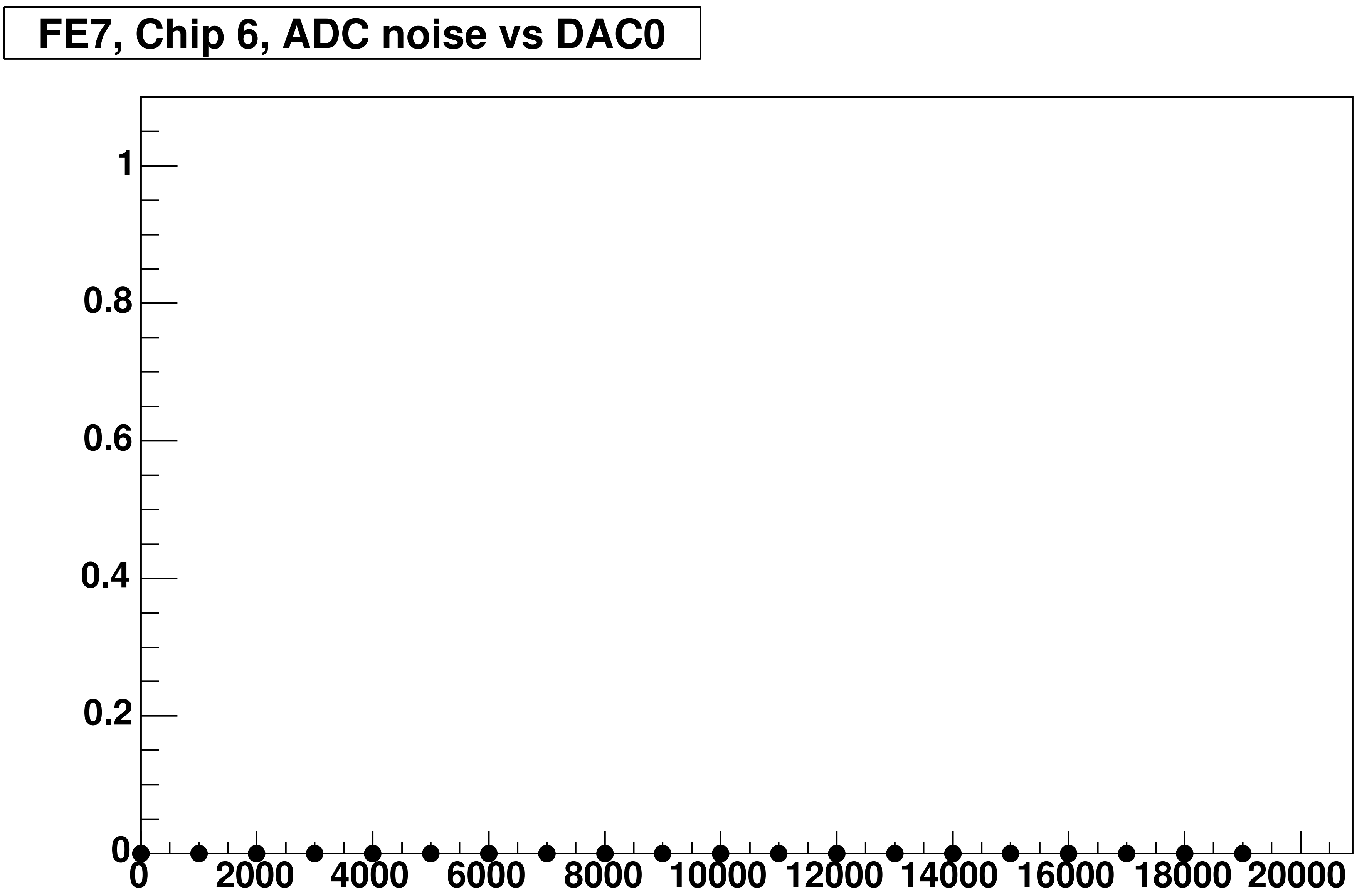
14000
16000
18000
20000


FE7, Chip 6, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE7, Chip 6, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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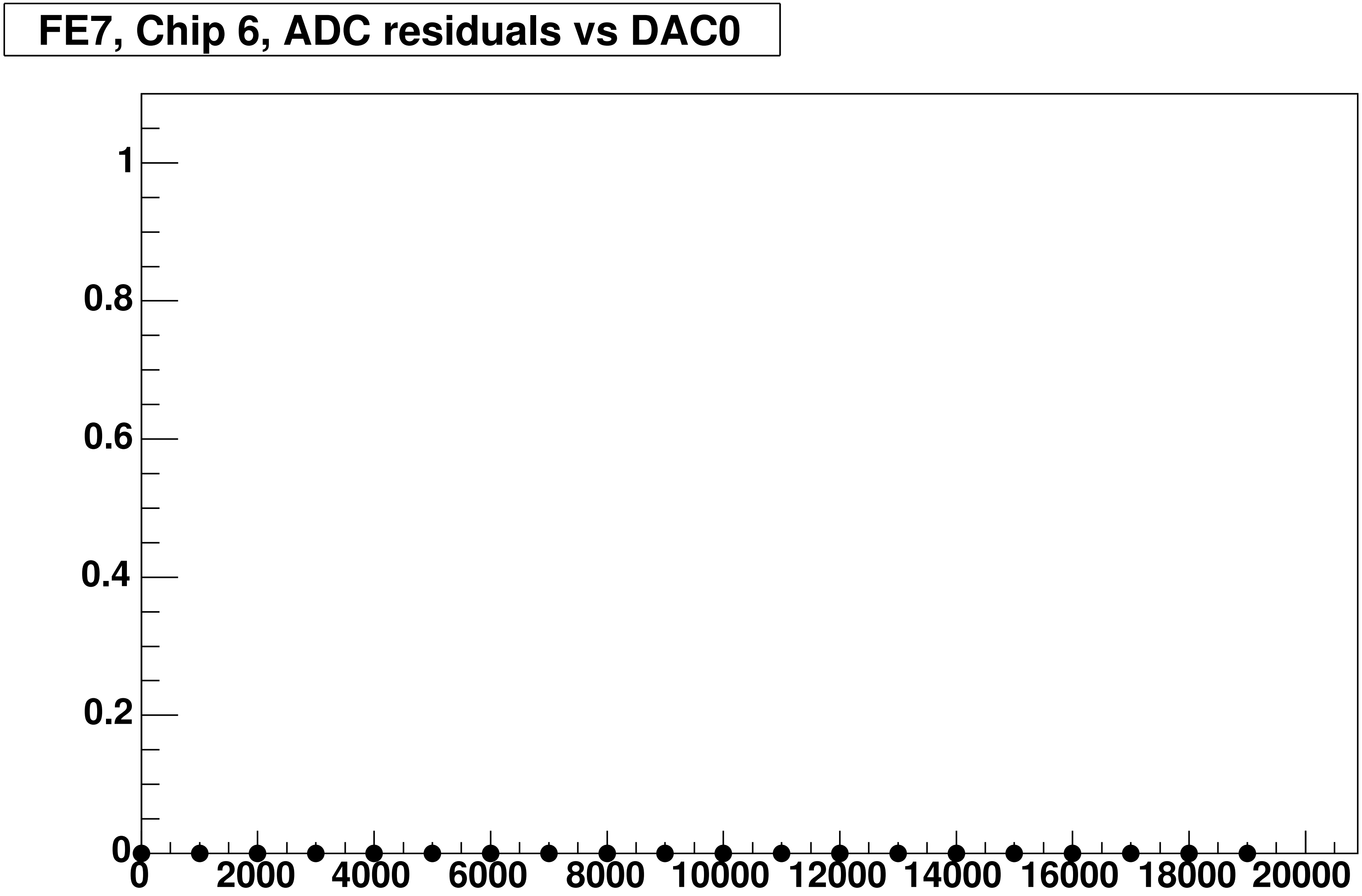
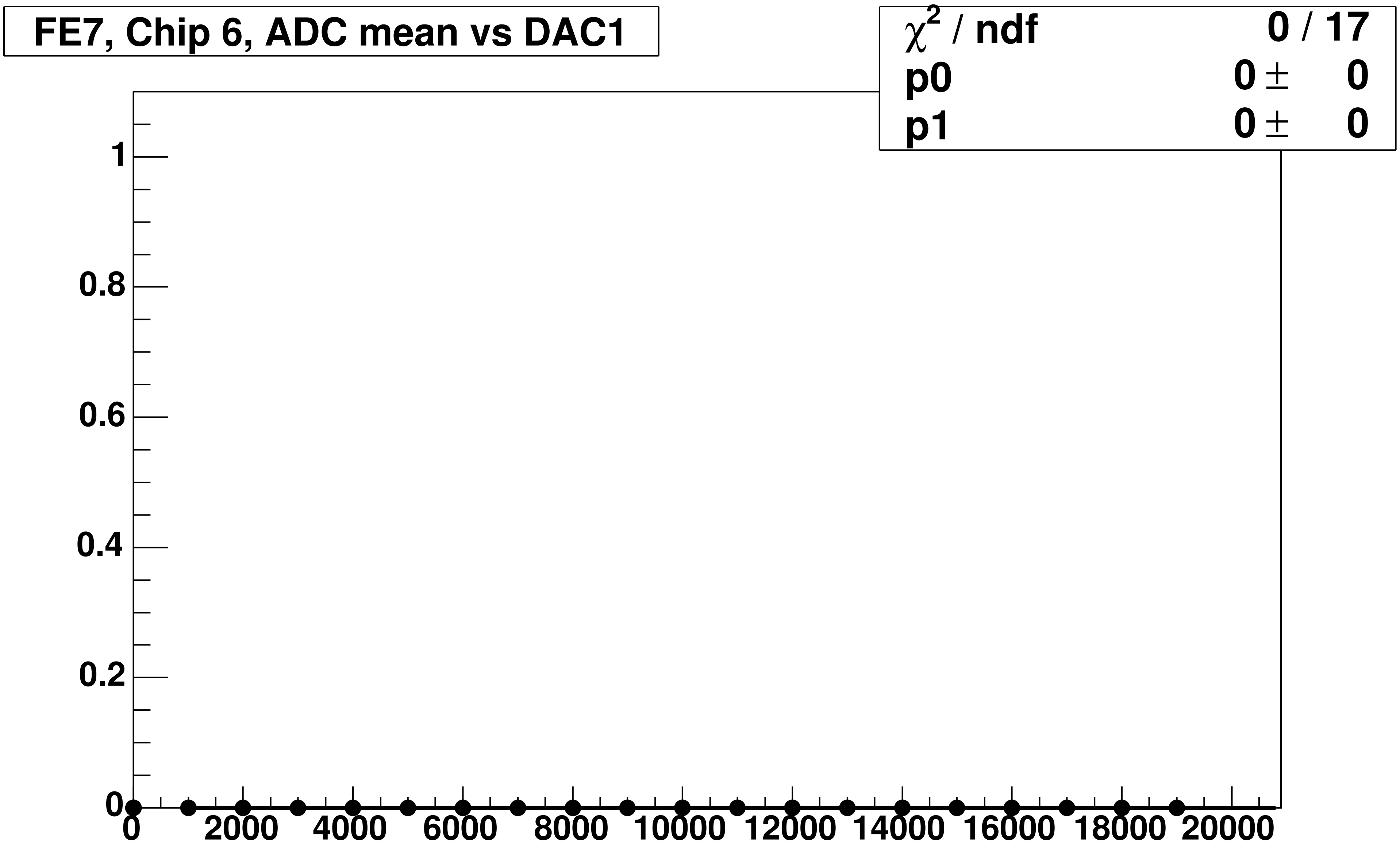
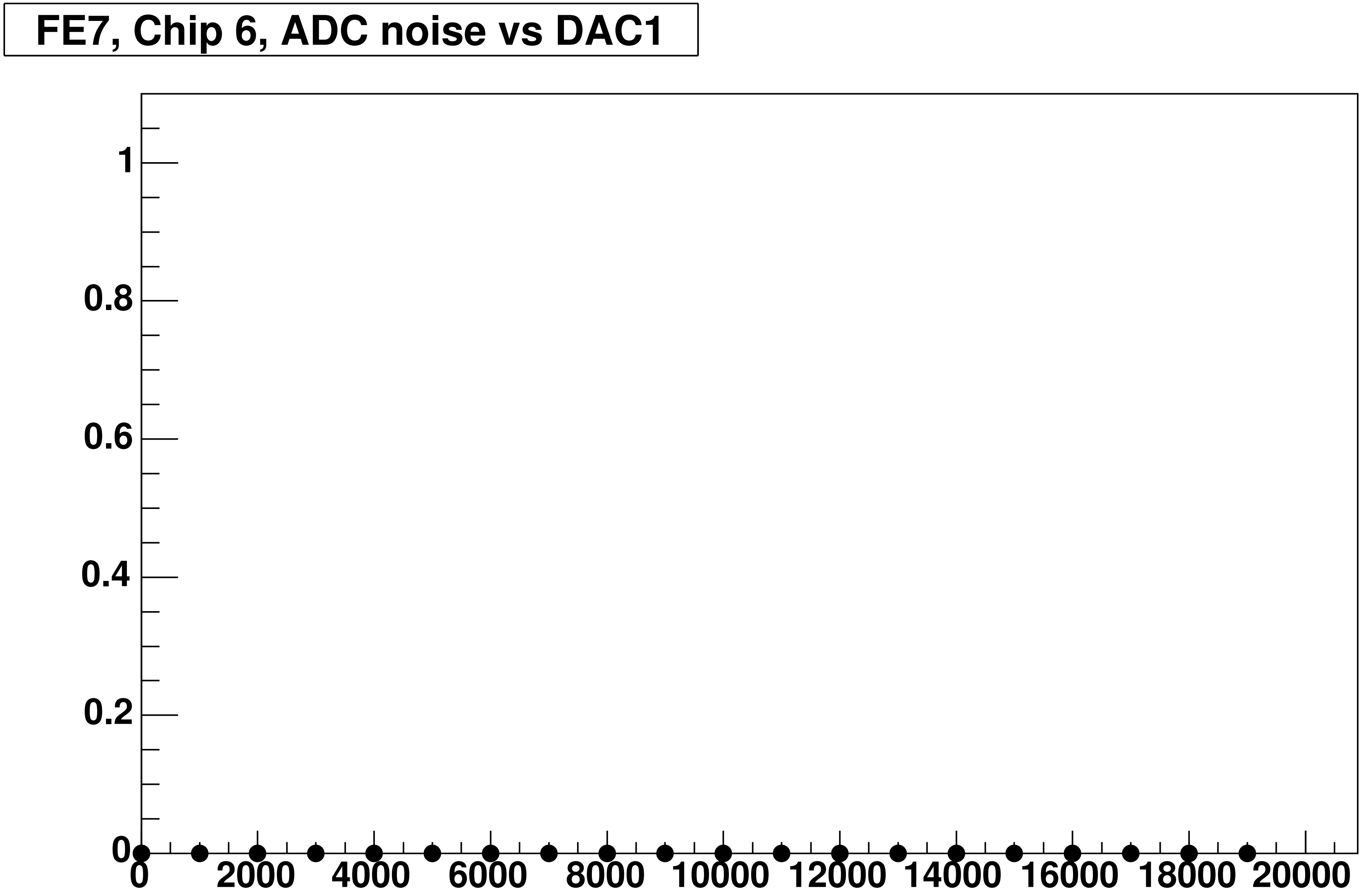
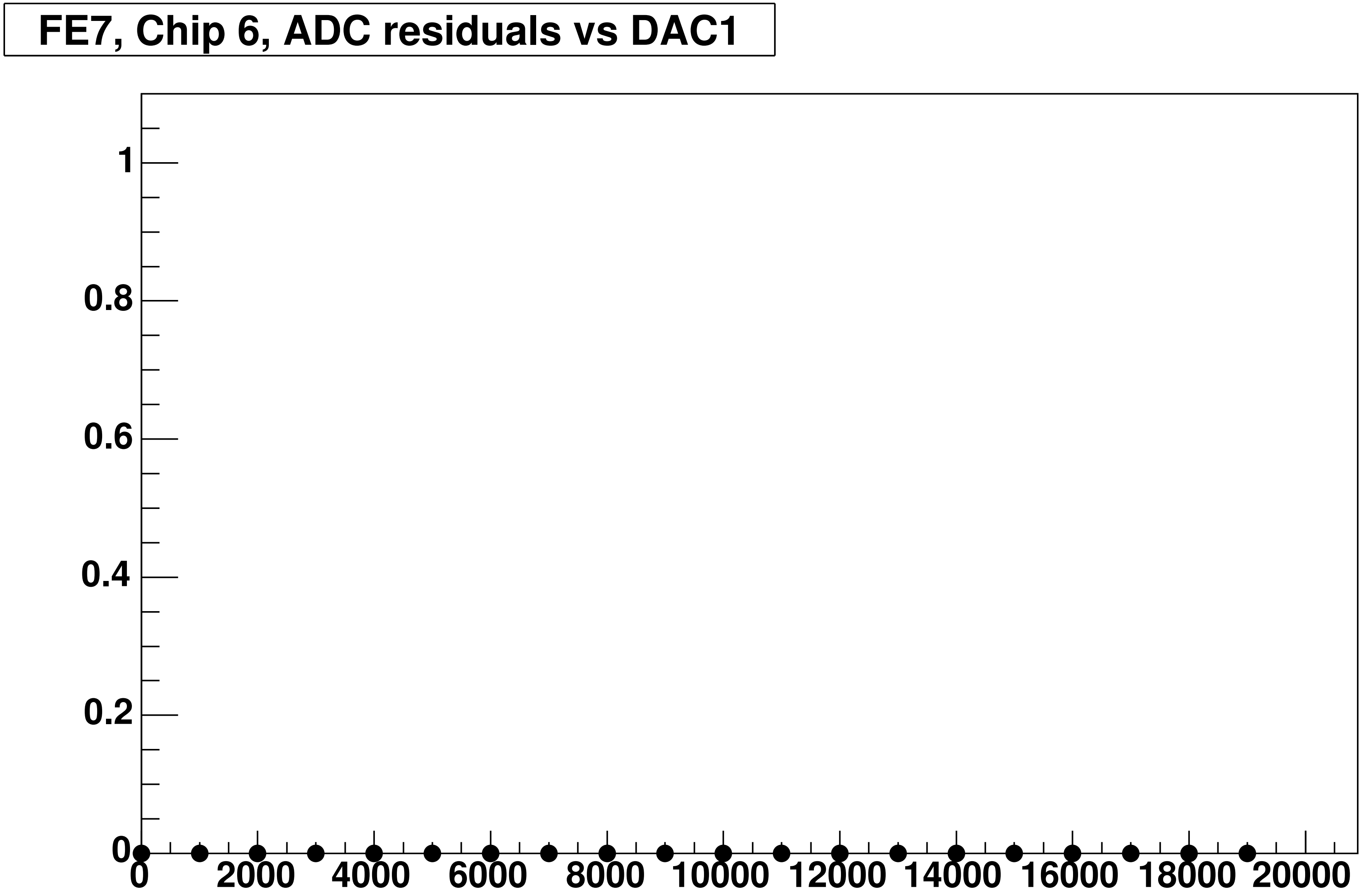
14000
16000
18000
20000


FE7, Chip 6, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

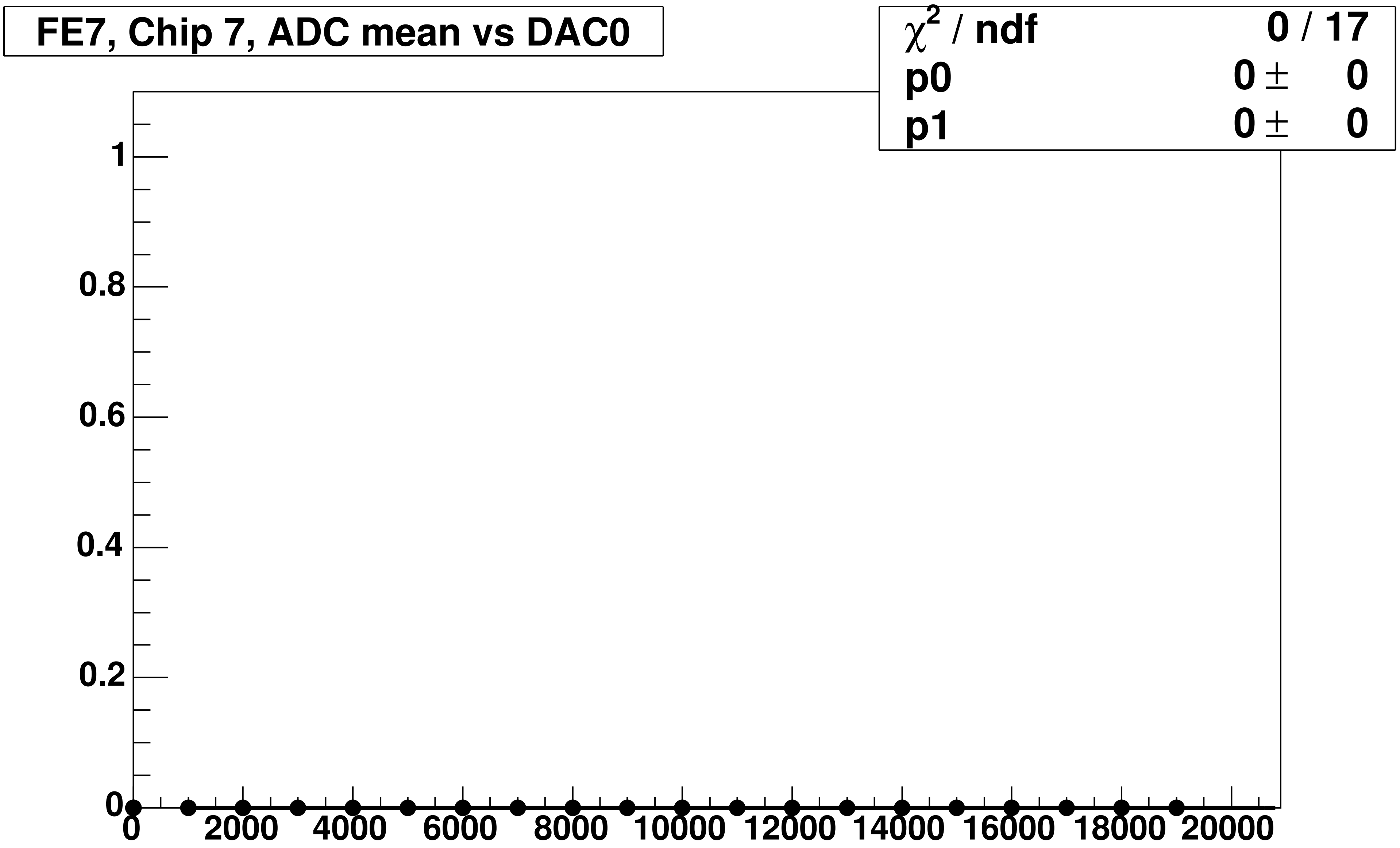


FE7, Chip 6, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

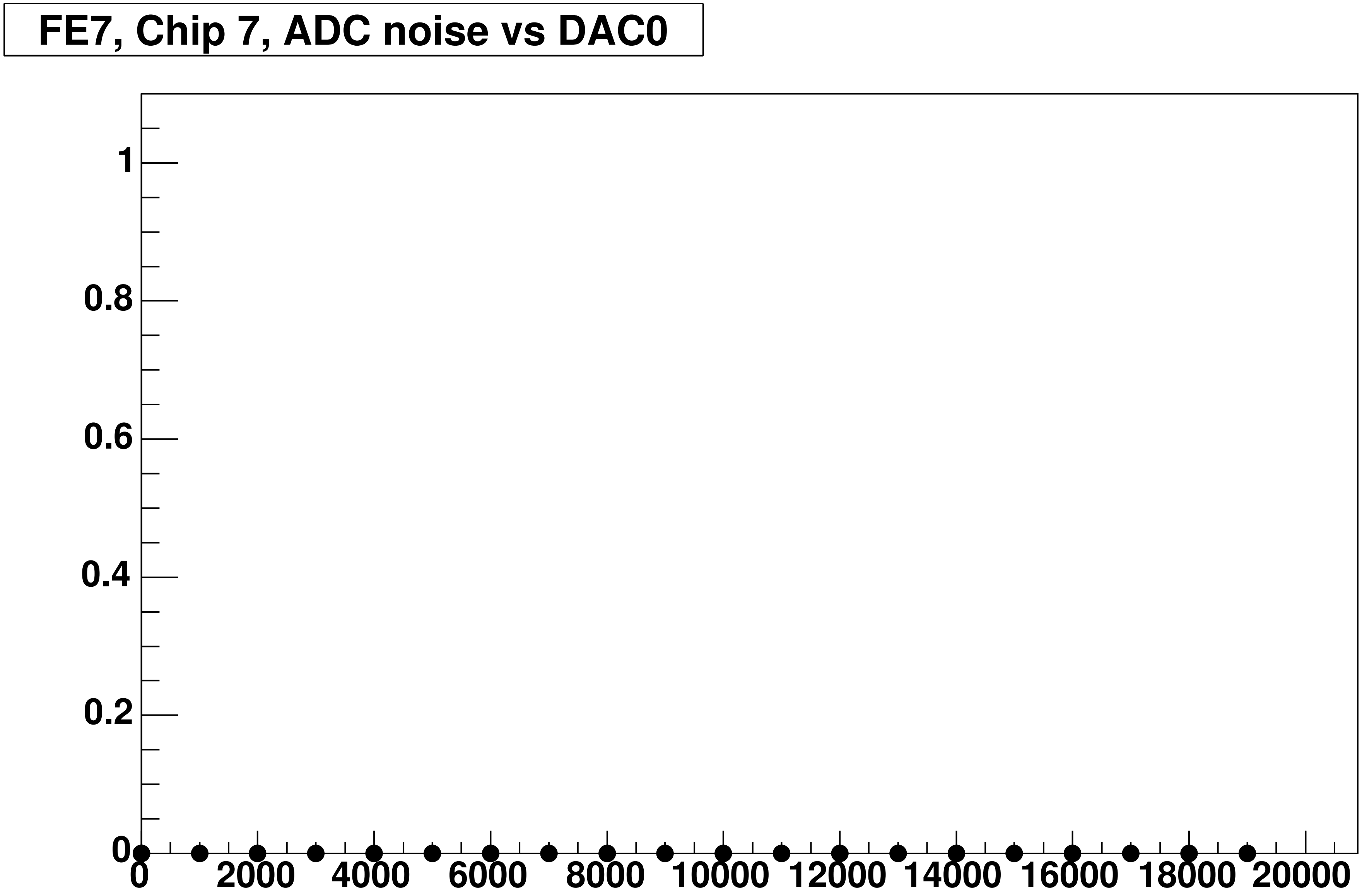

FE7, Chip 6, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



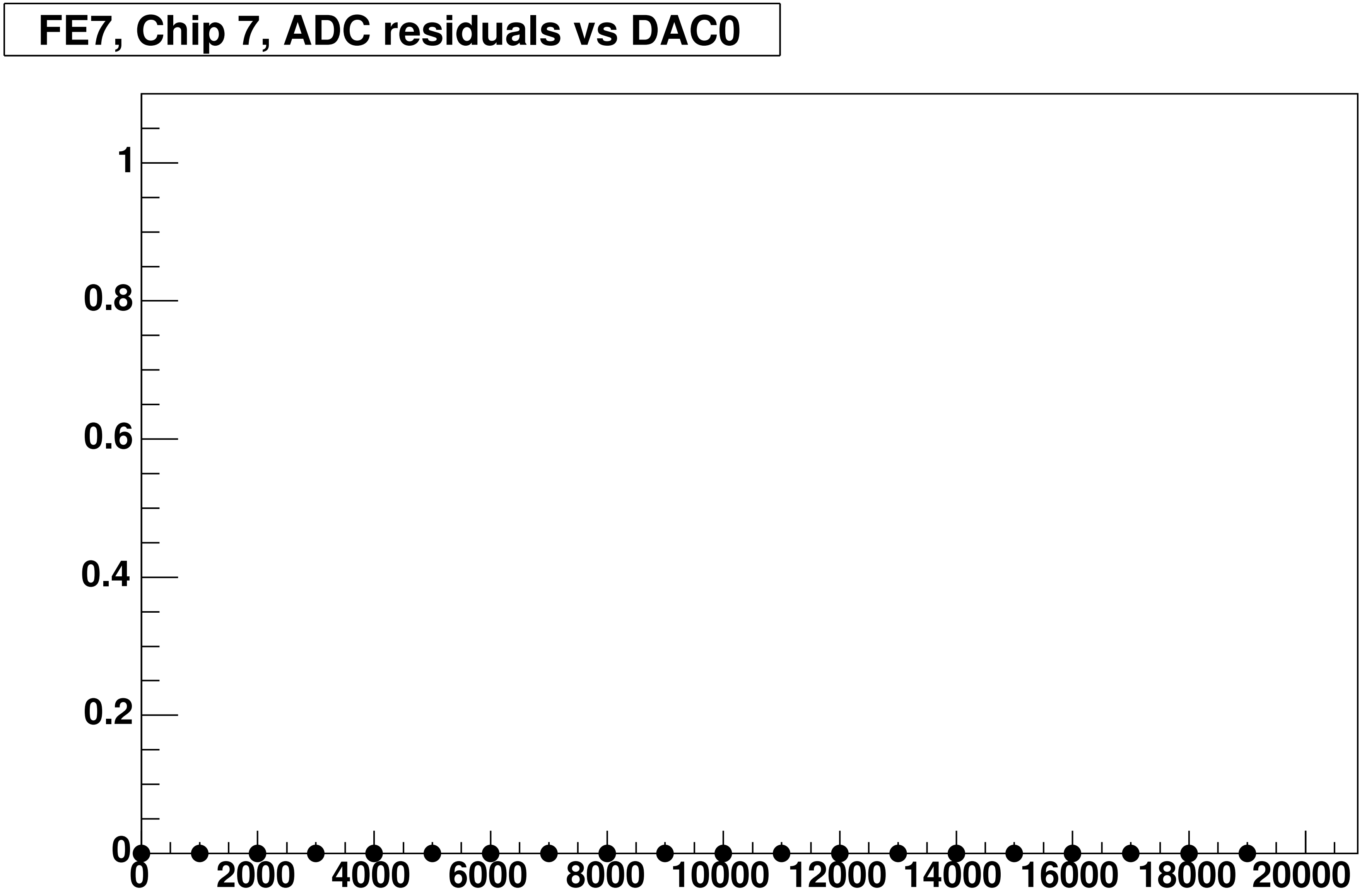
FE7, Chip 6, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

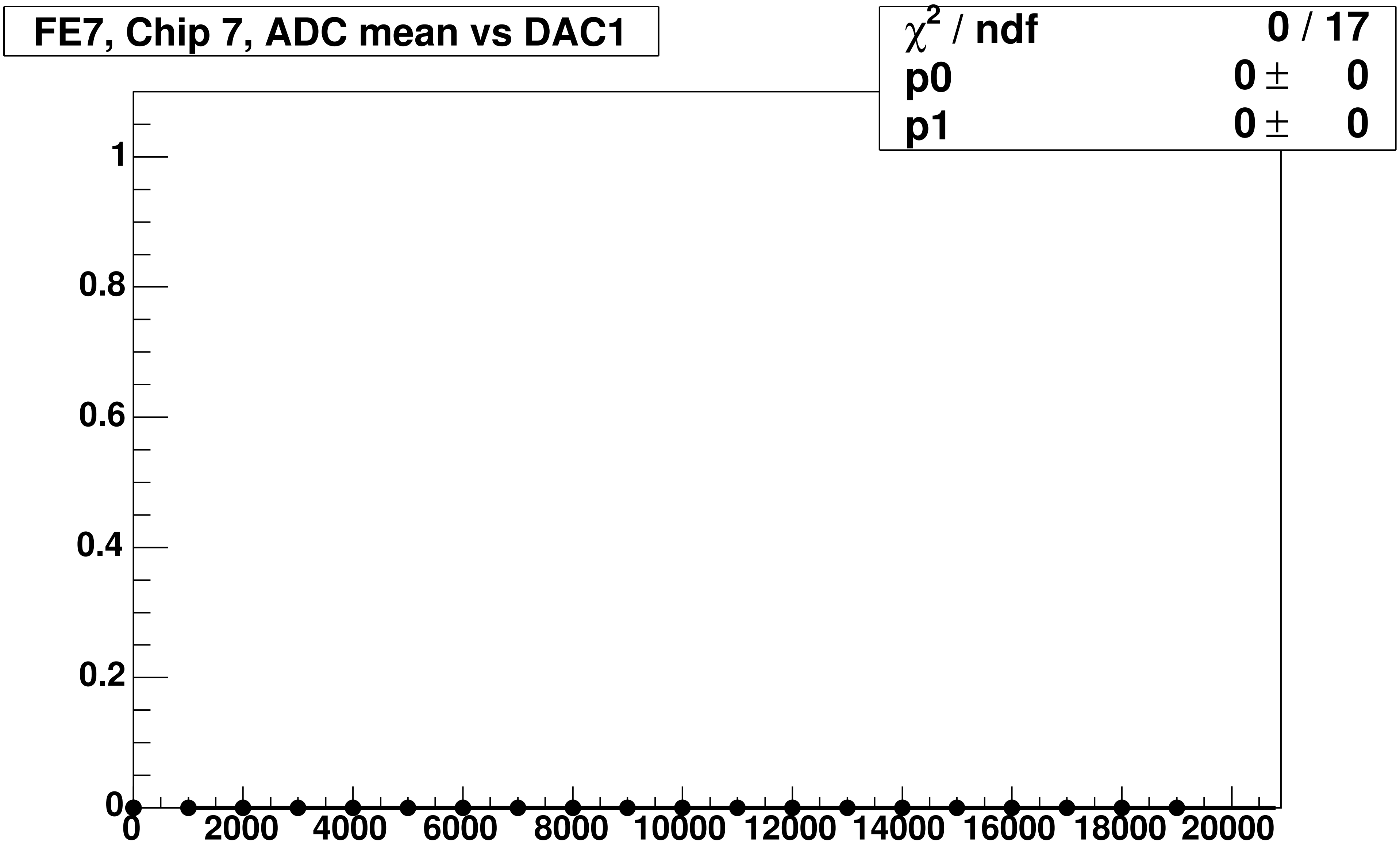


FE7, Chip 7, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

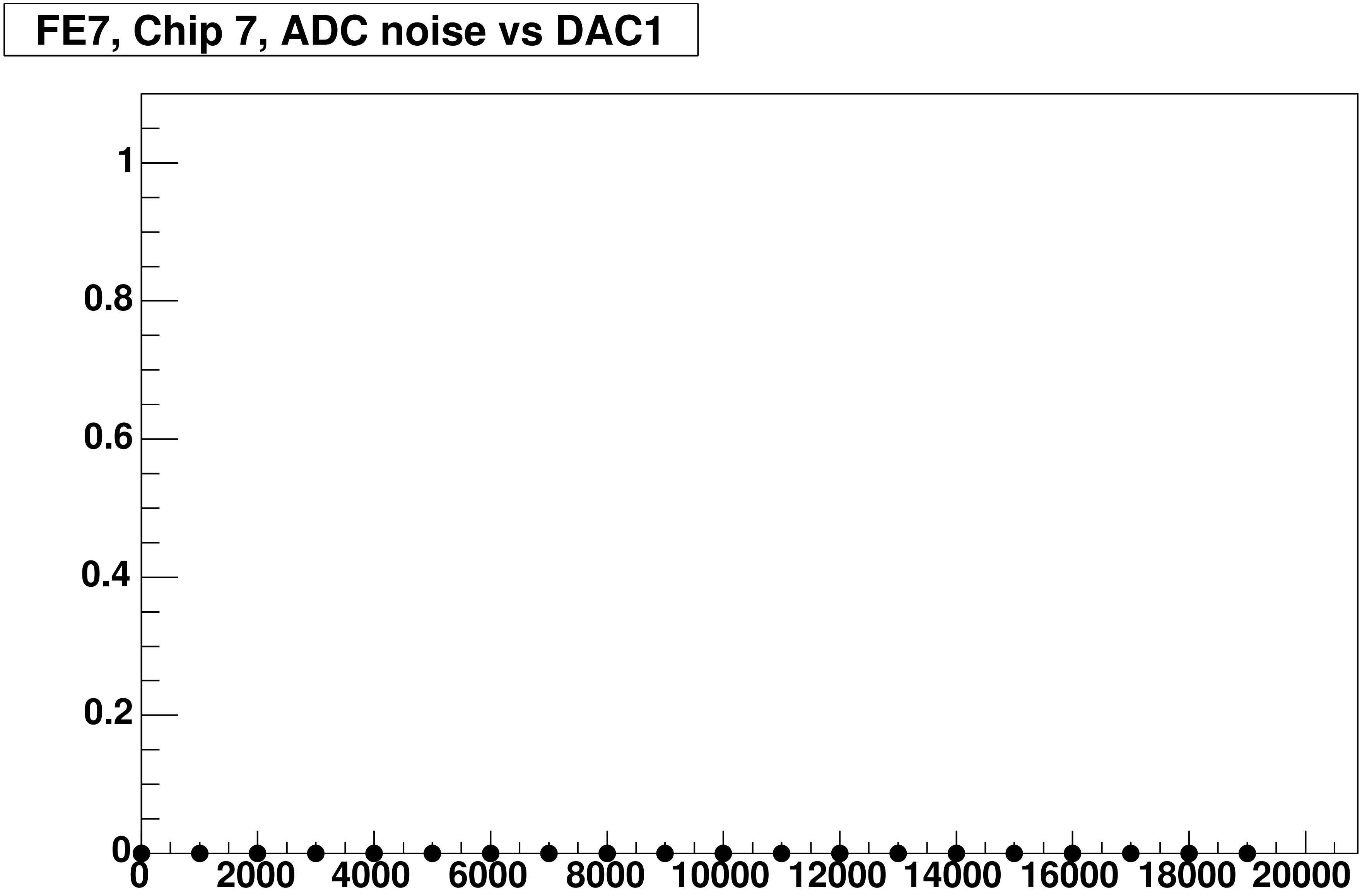


FE7, Chip 7, ADC noise vs DAC0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE7, Chip 7, ADC residuals vs DAC0
0
0.2
0.4
0.6
0.8
1
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



FE7, Chip 7, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE7, Chip 7, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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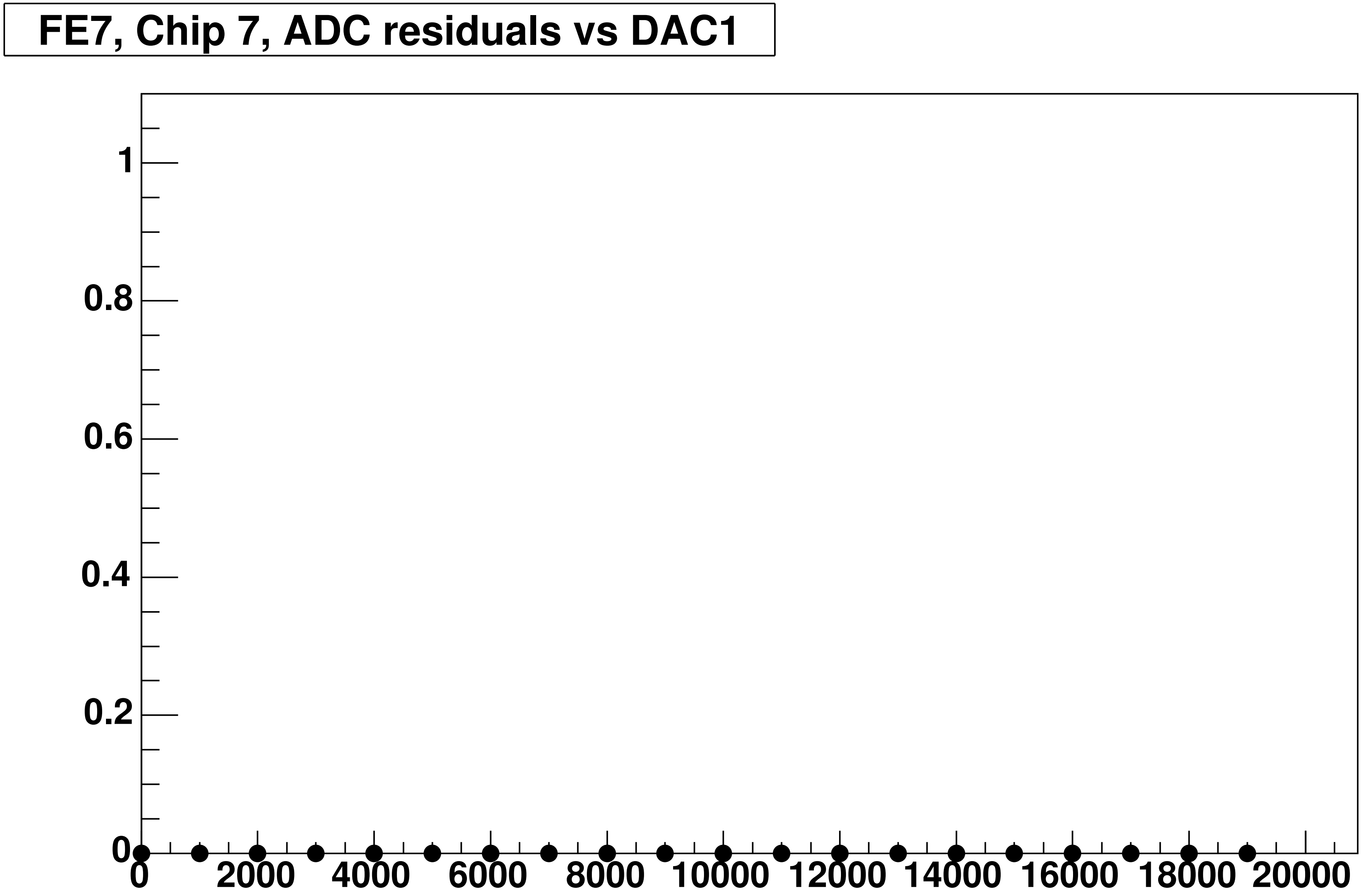
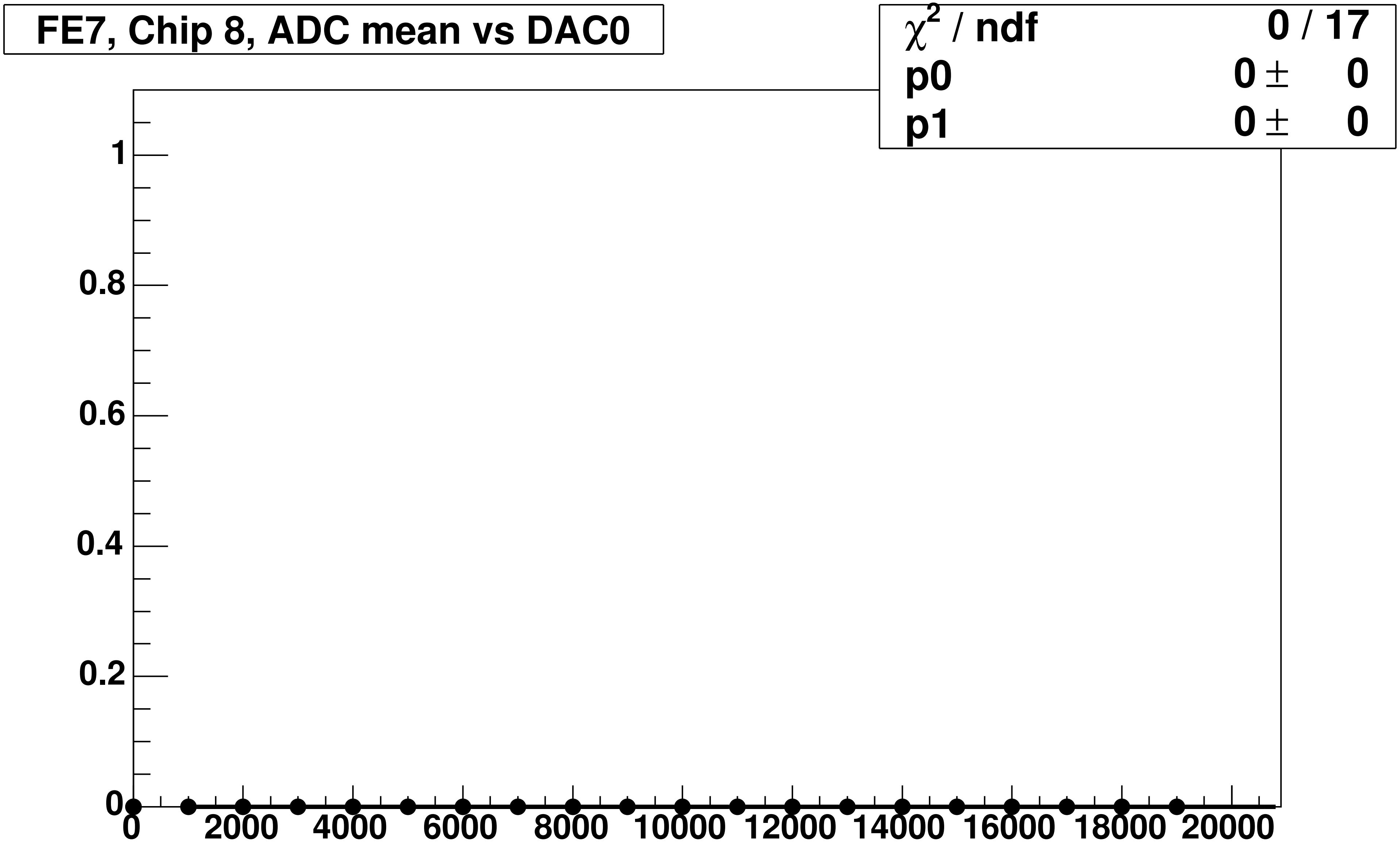
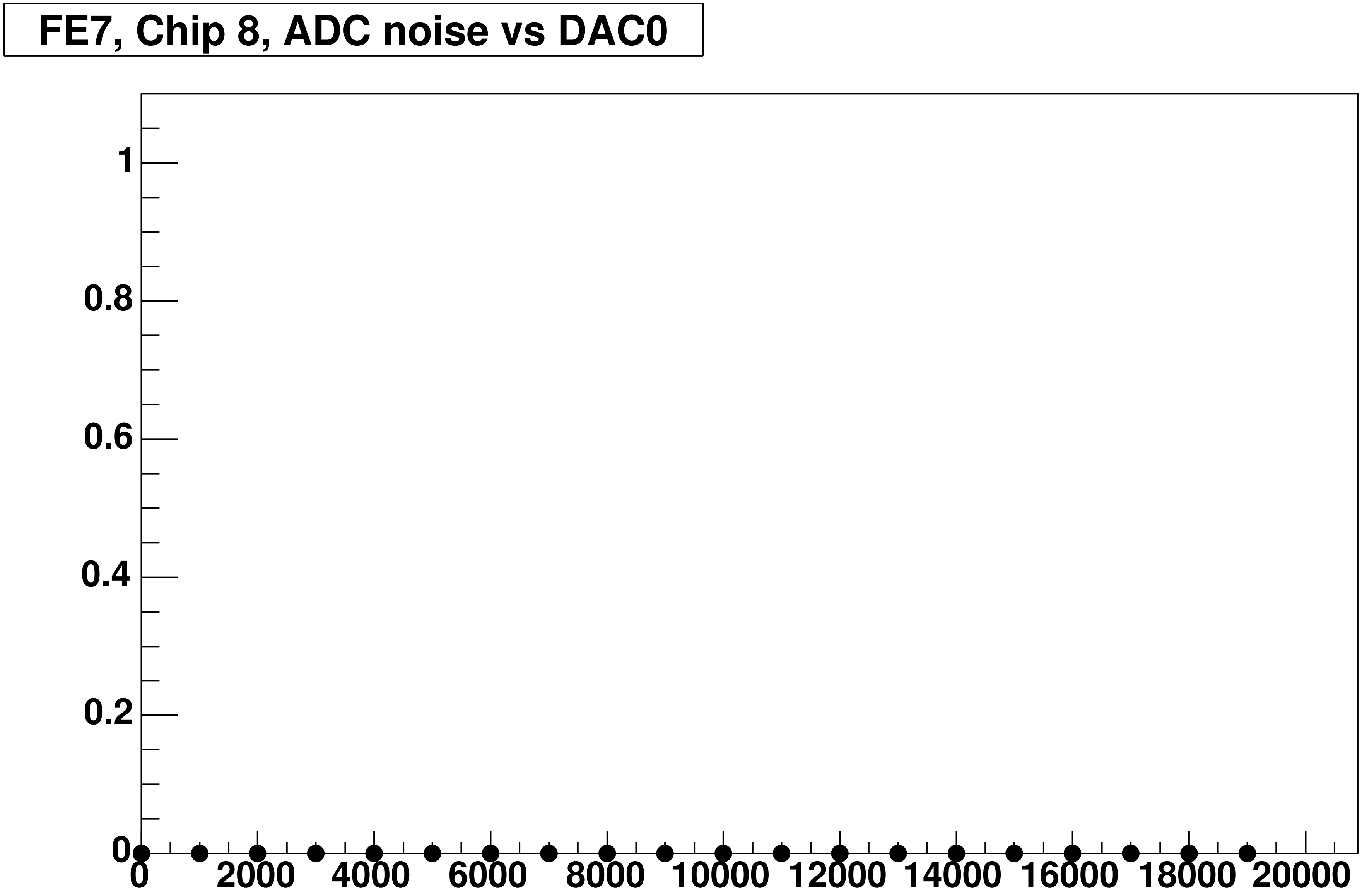
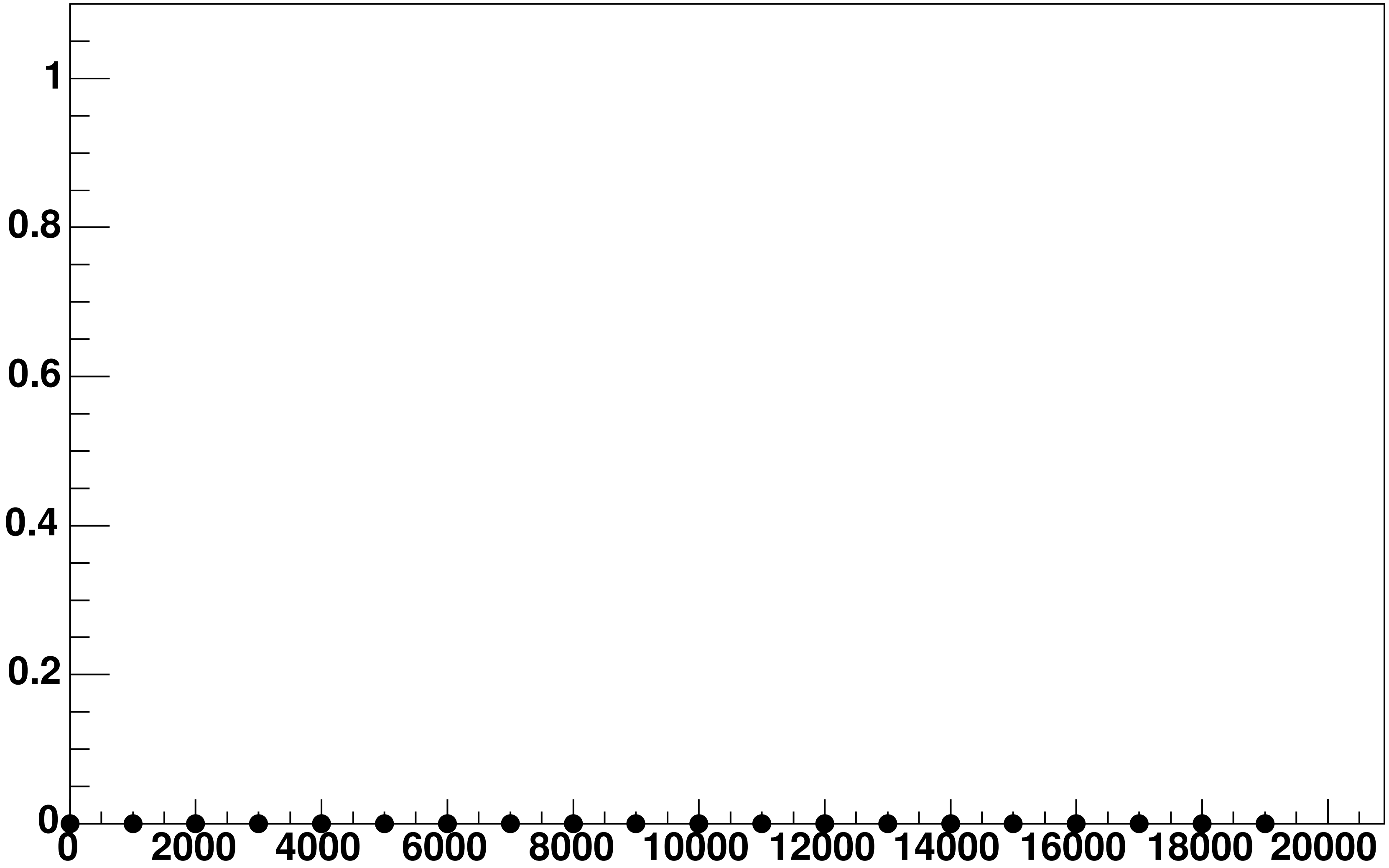
14000
16000
18000
20000

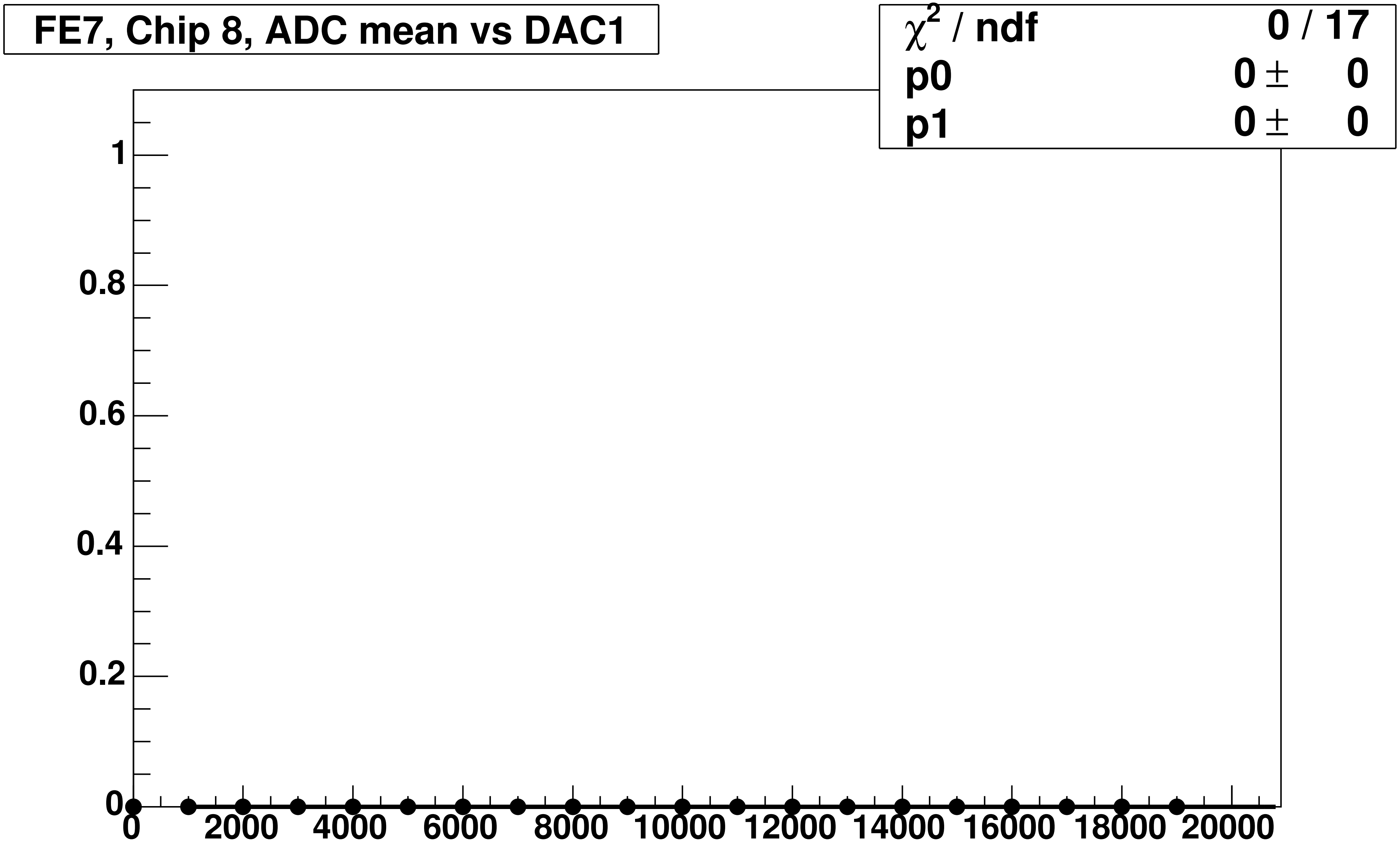

FE7, Chip 7, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE7, Chip 8, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0 2000 4000 6000 8000 10000 12000 14000 16000 18000 20000

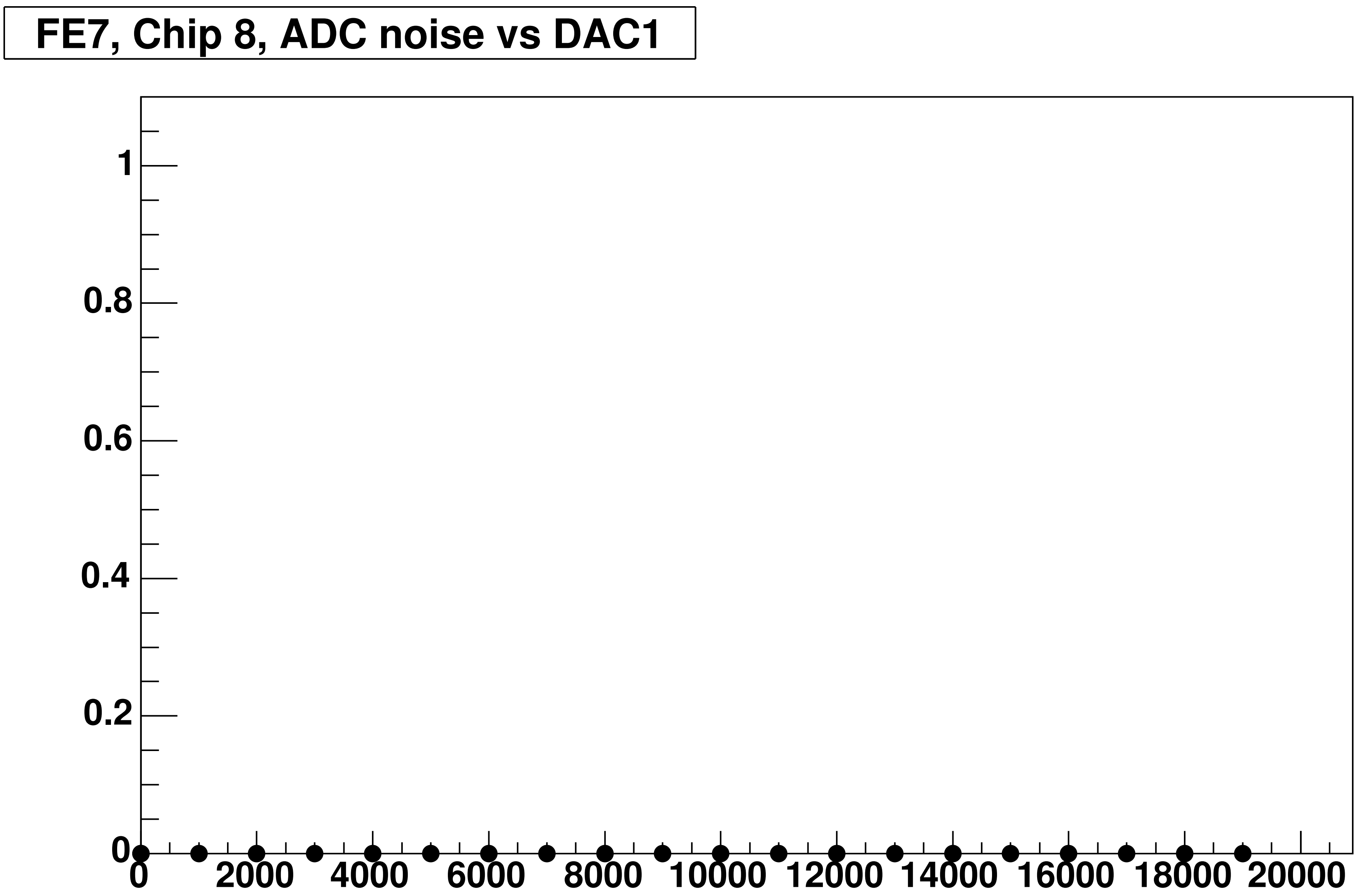

FE7, Chip 8, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

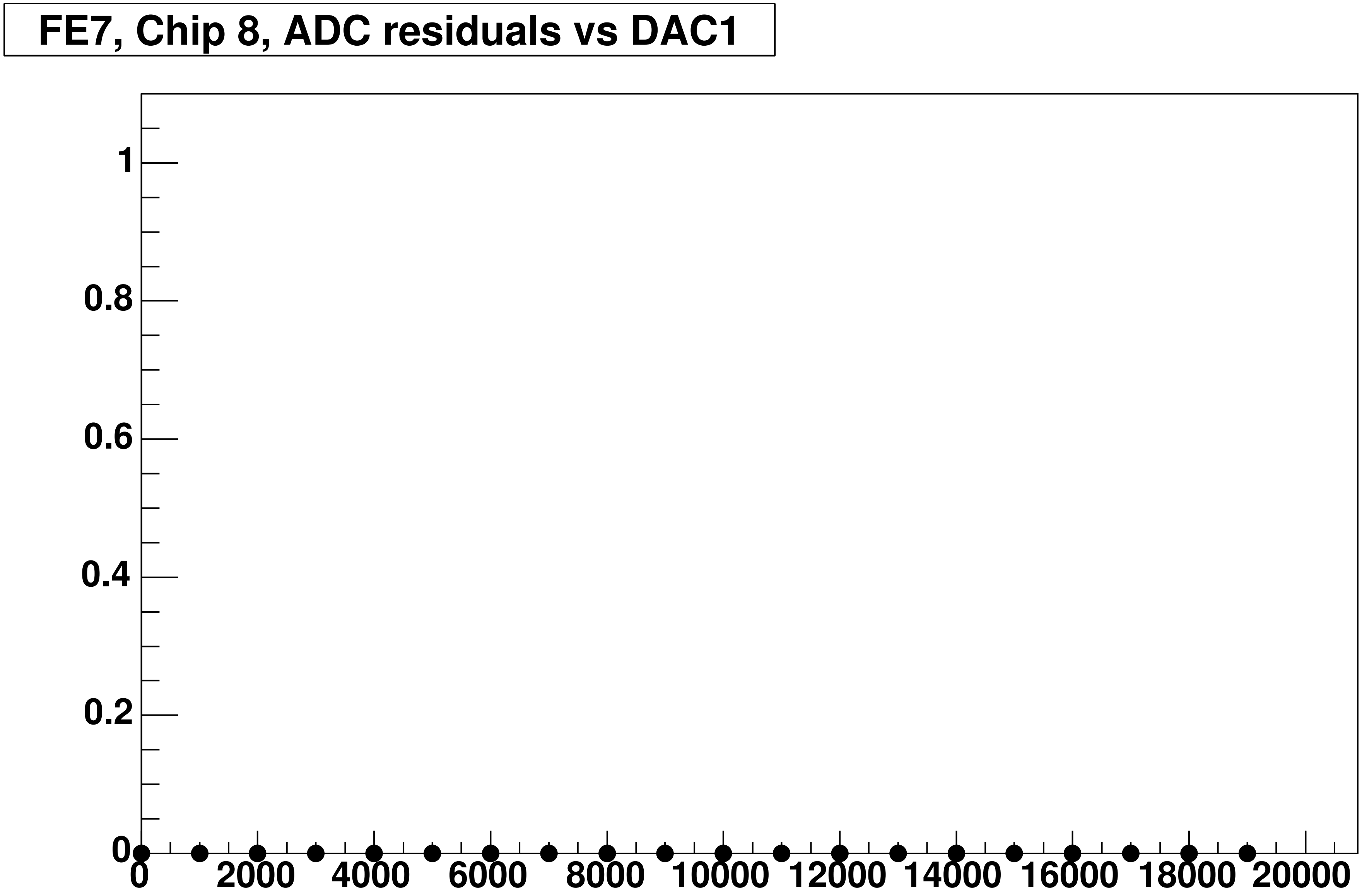
FE7, Chip 8, ADC residuals vs DAC0

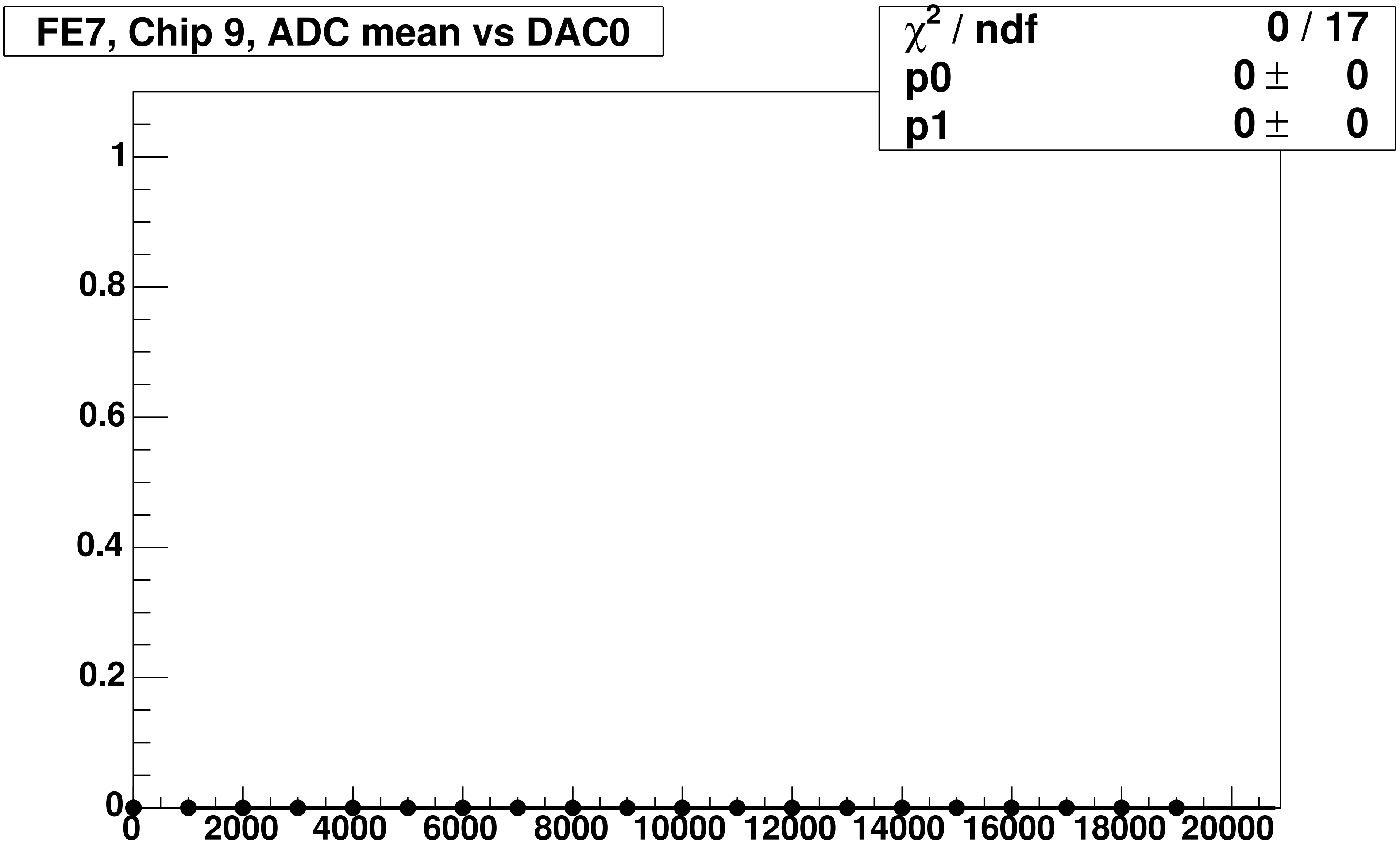


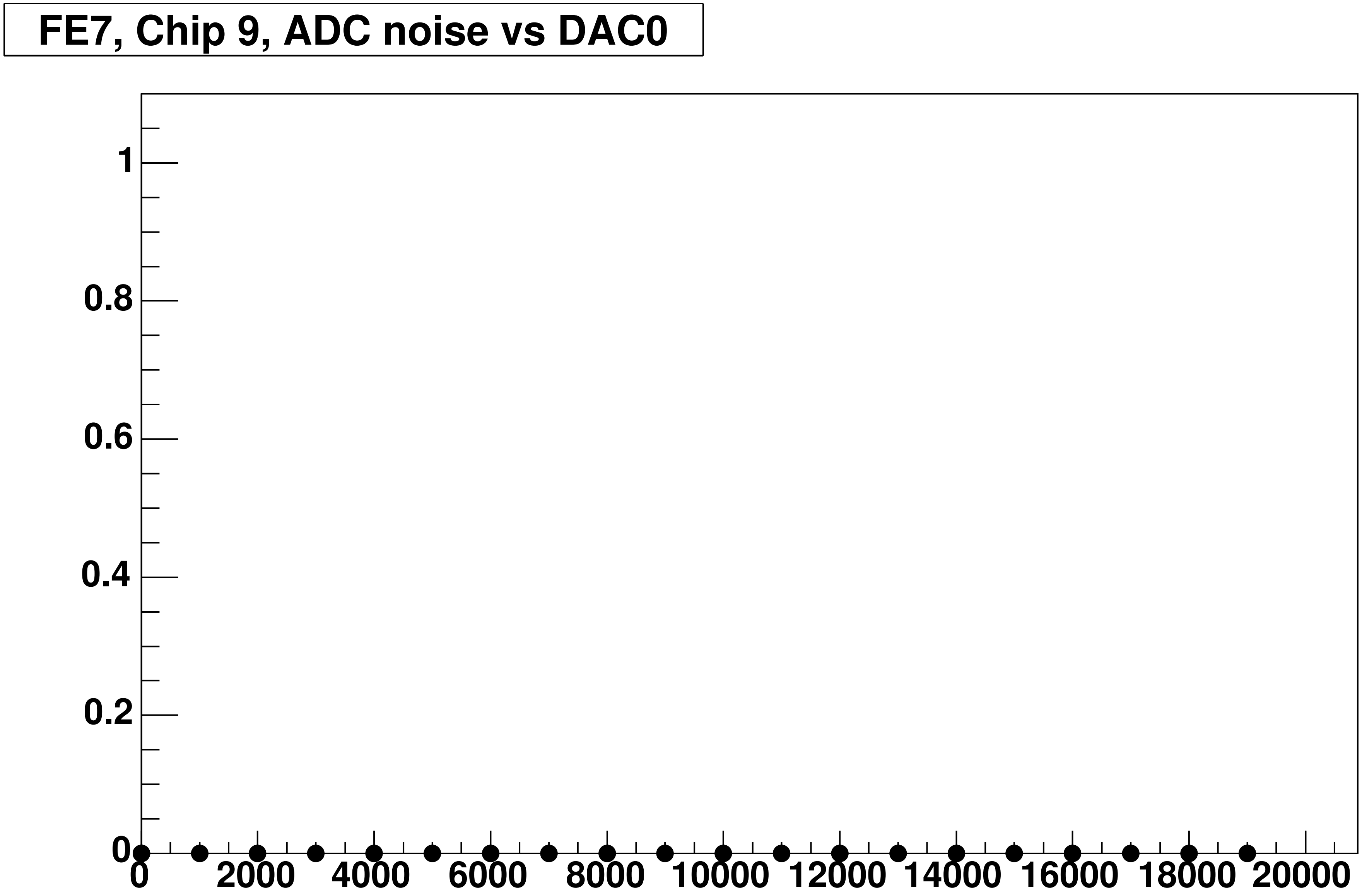


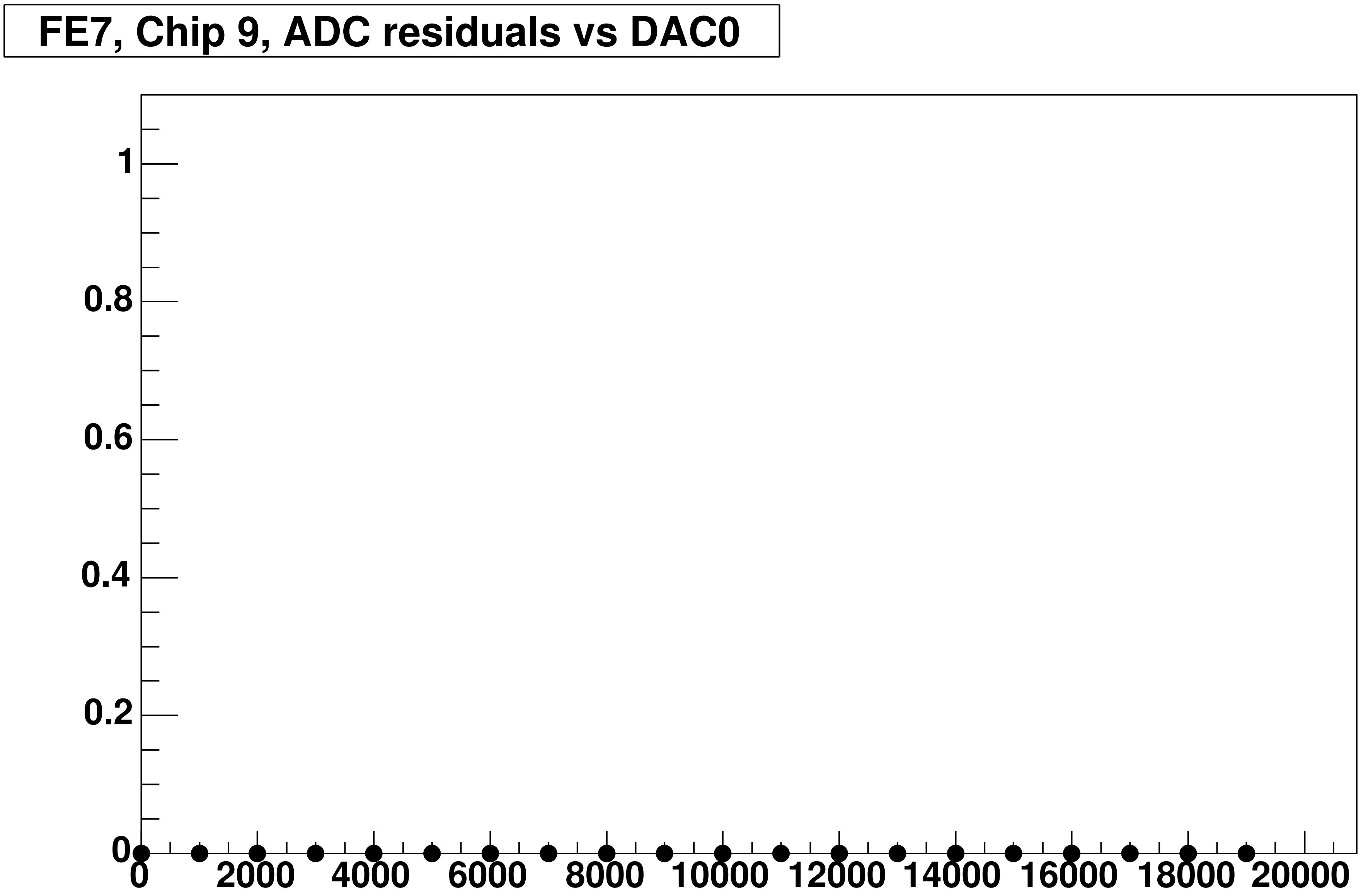
FE7, Chip 8, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0 2000 4000 6000 8000 10000 12000 14000 16000 18000 20000

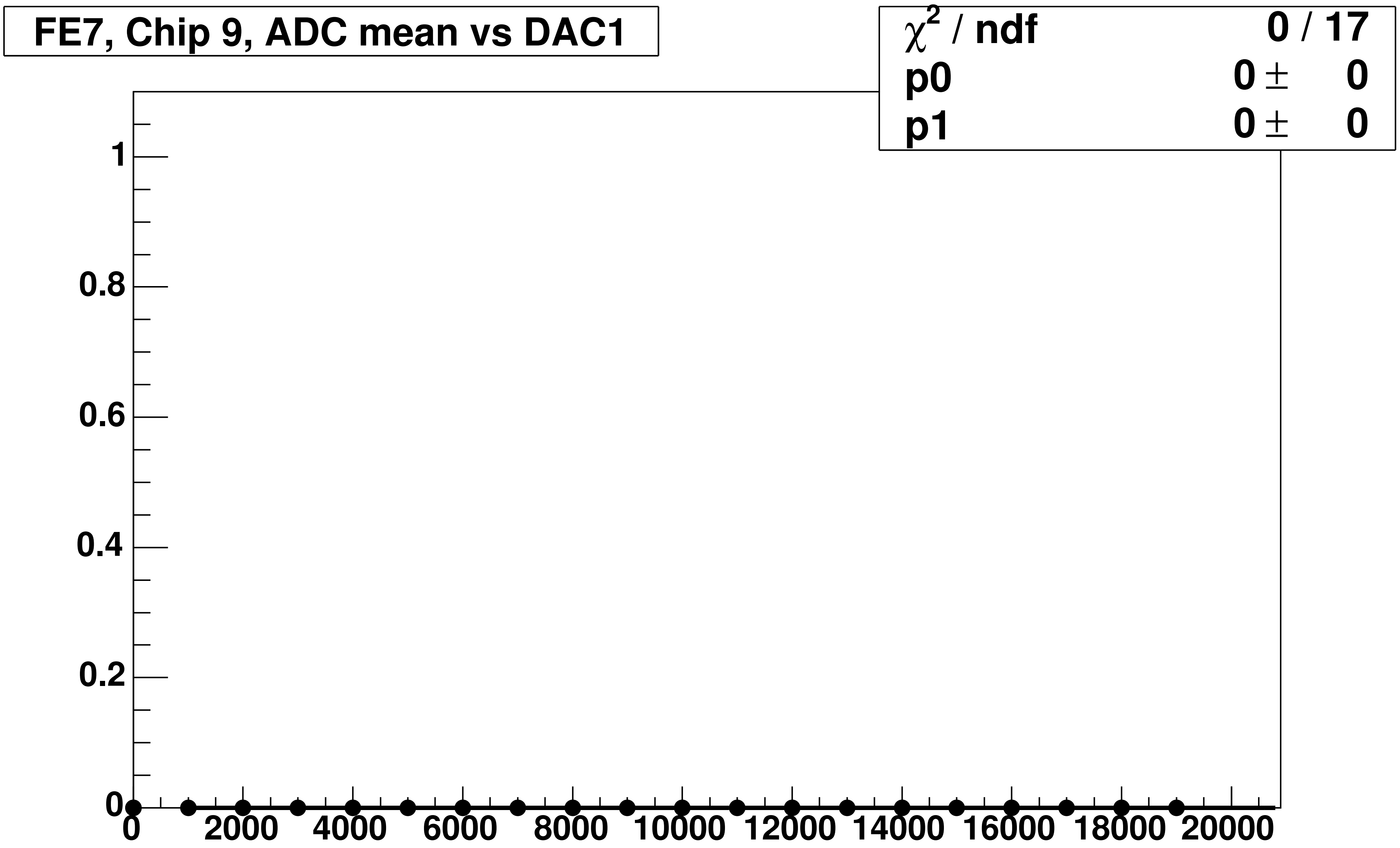

FE7, Chip 8, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE7, Chip 8, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

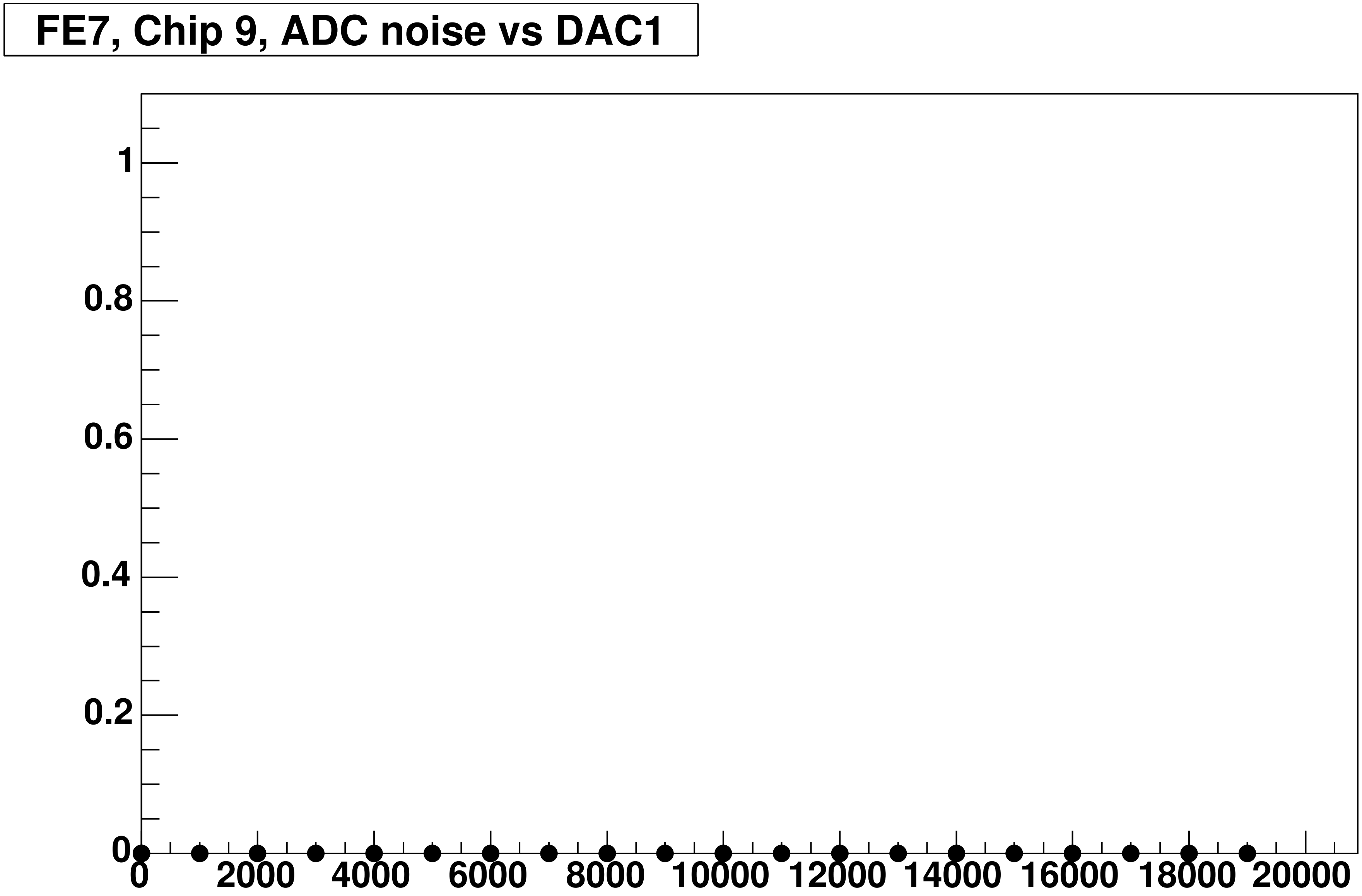

FE7, Chip 9, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

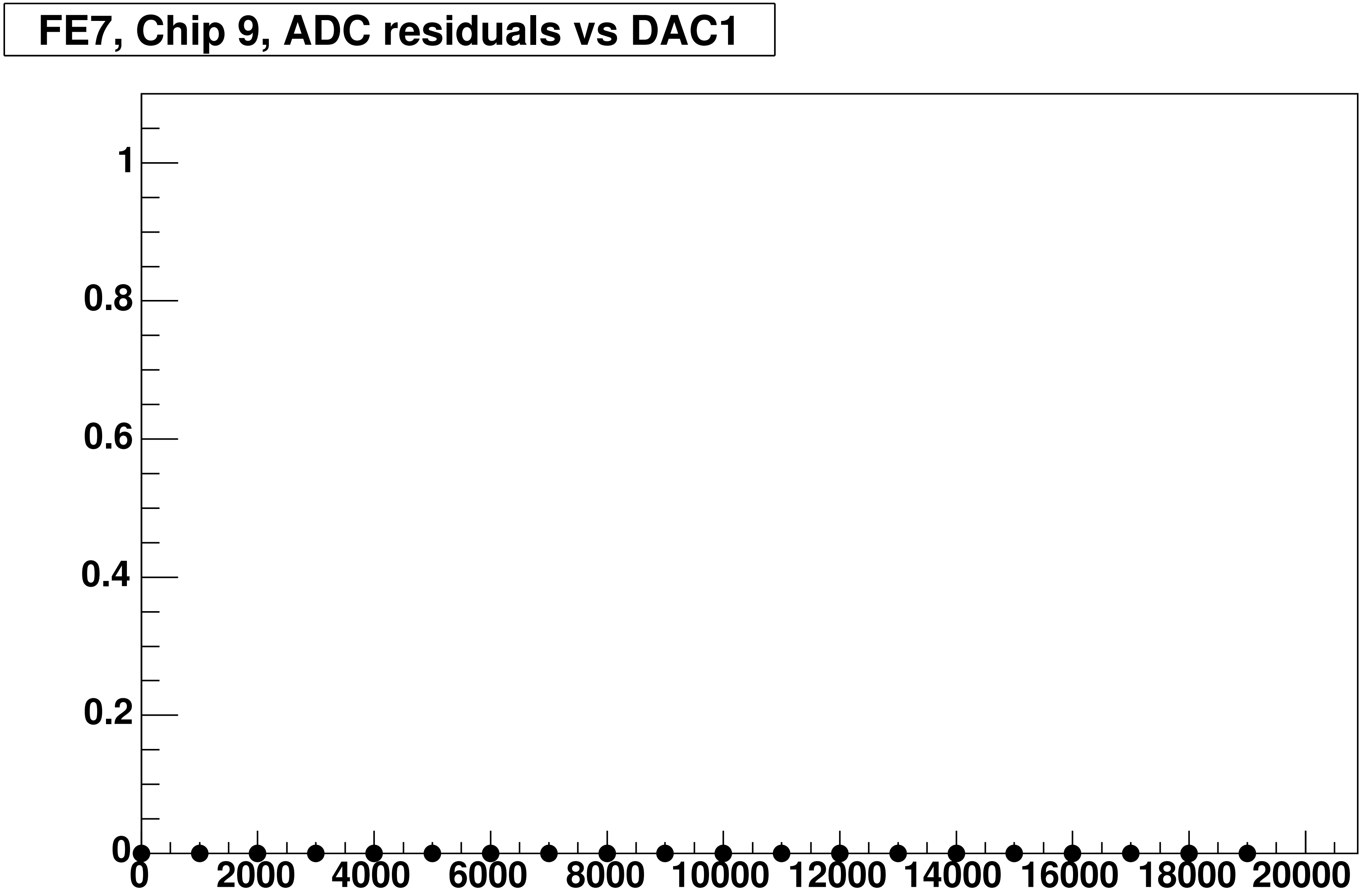

FE7, Chip 9, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE7, Chip 9, ADC residuals vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



FE7, Chip 9, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE7, Chip 9, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



FE7, Chip 9, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
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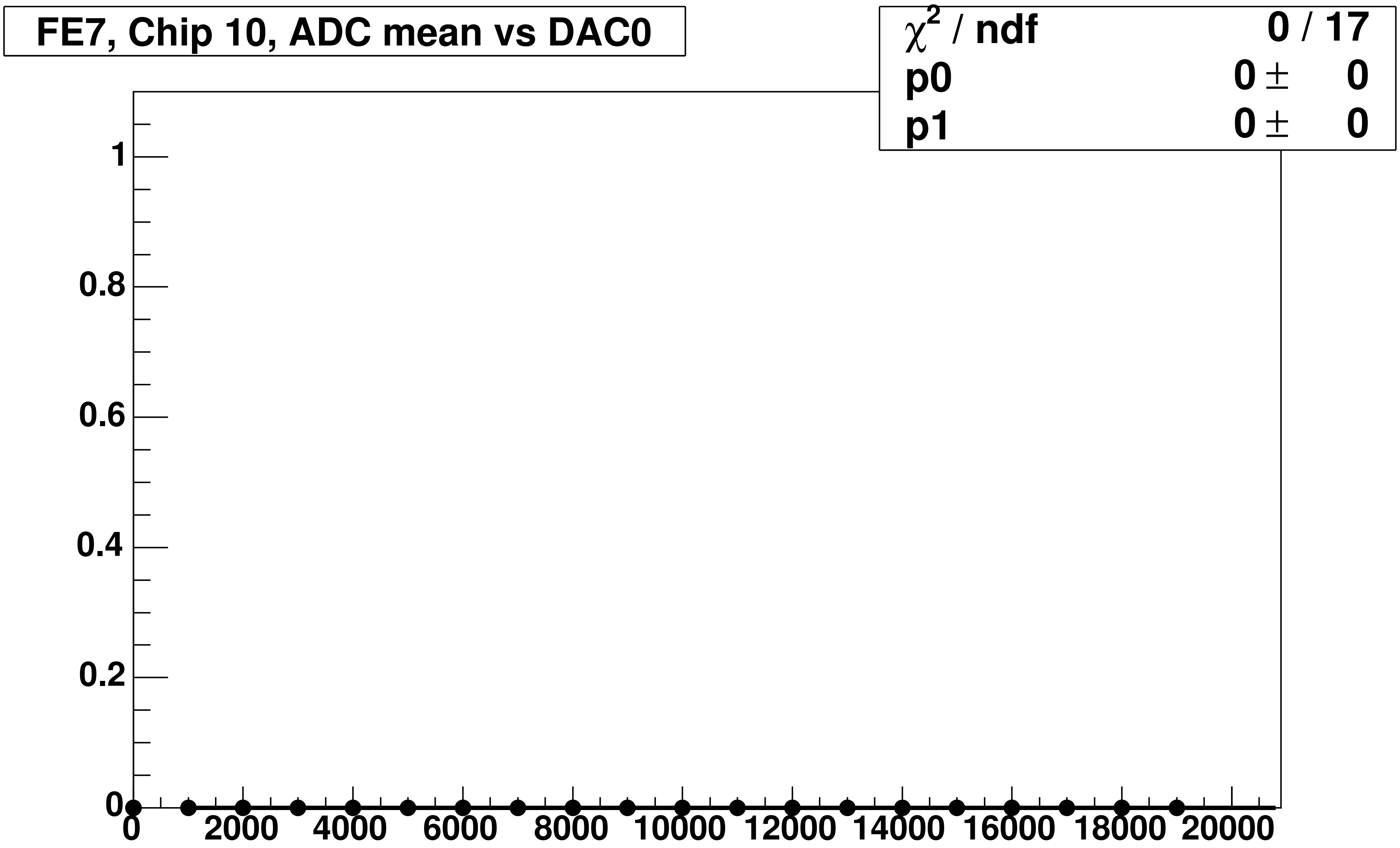
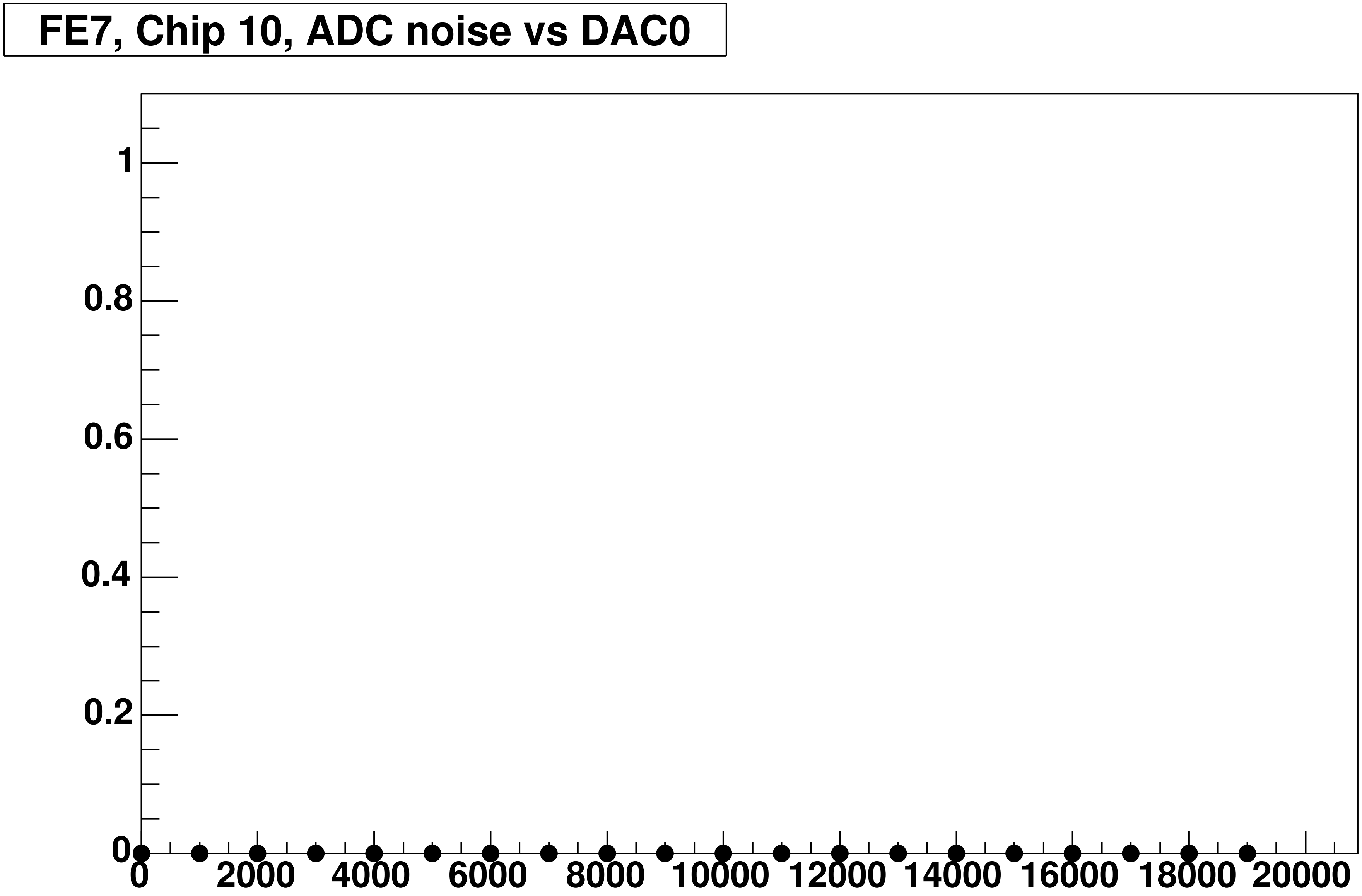
14000
16000
18000
20000

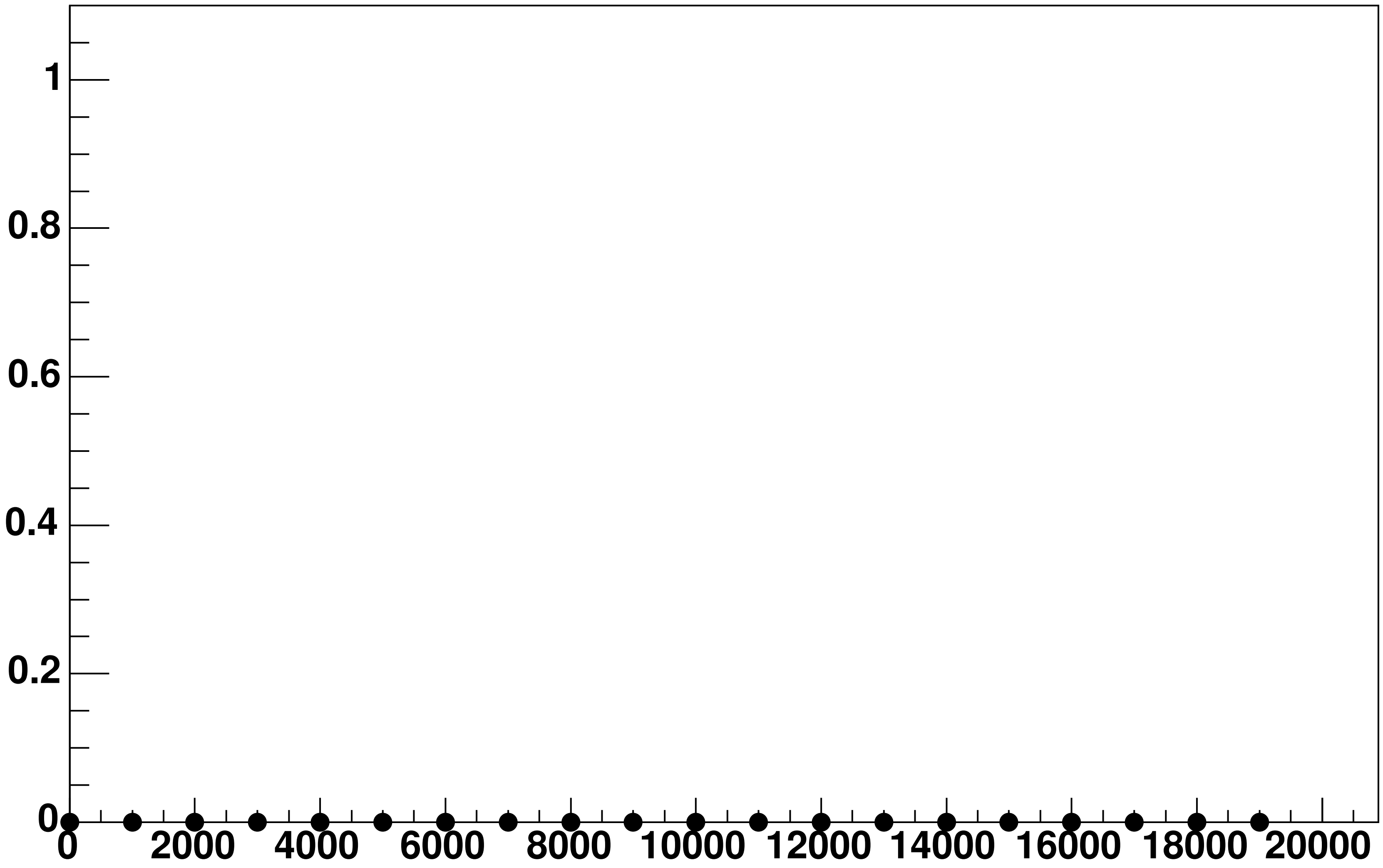


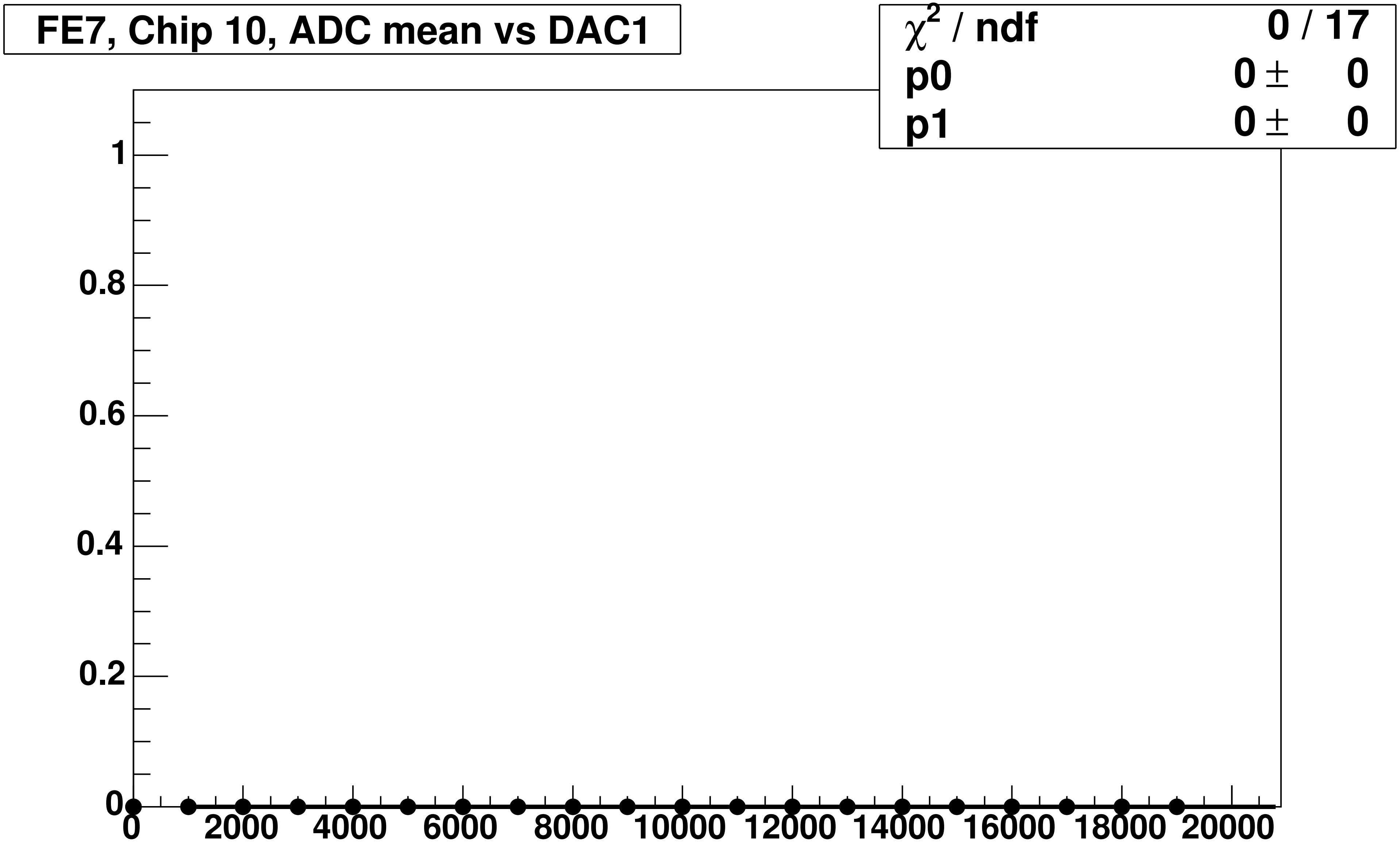
FE7, Chip 10, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



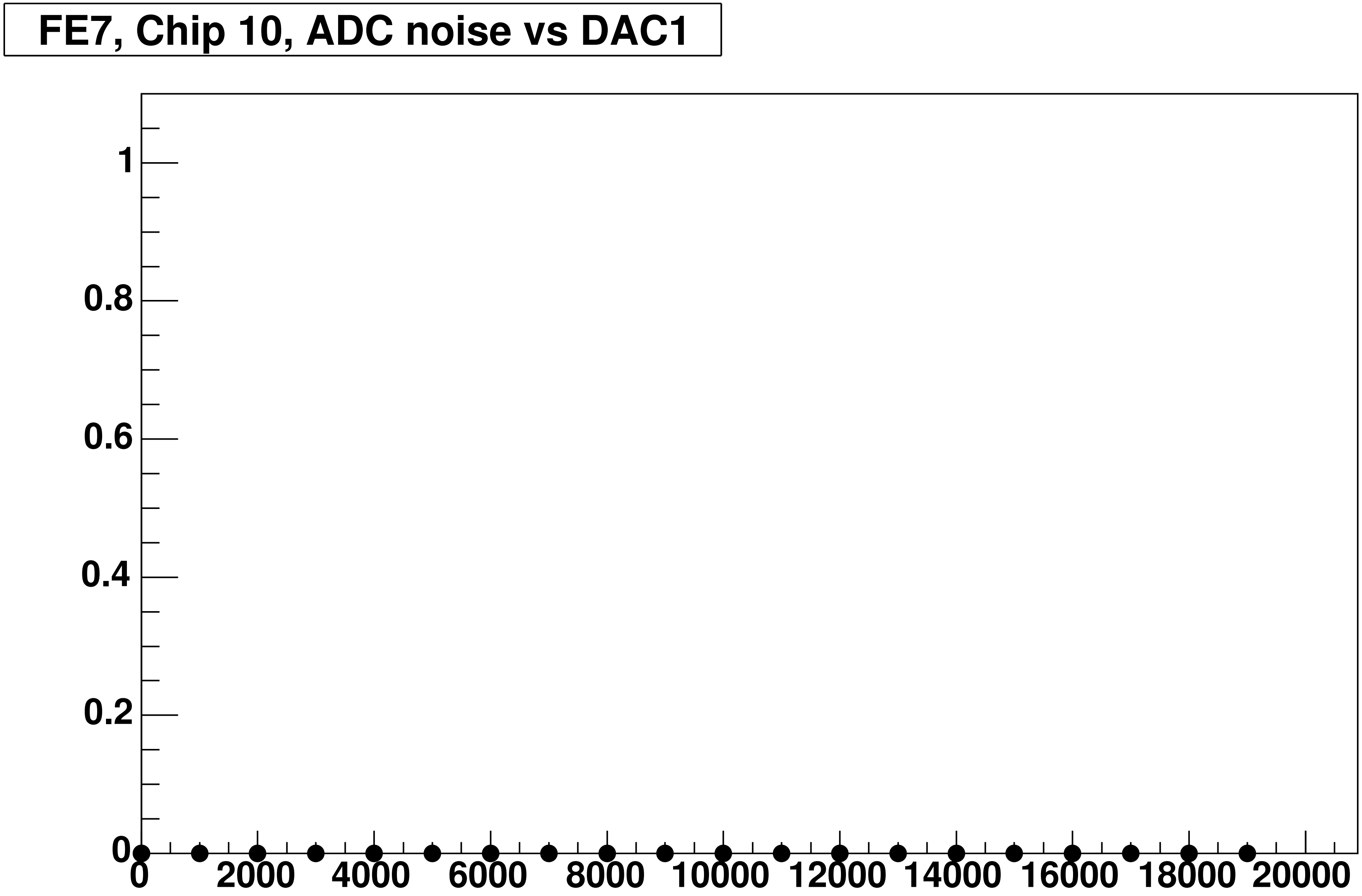
FE7, Chip 10, ADC noise vs DAC0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

FE7, Chip 10, ADC residuals vs DAC0

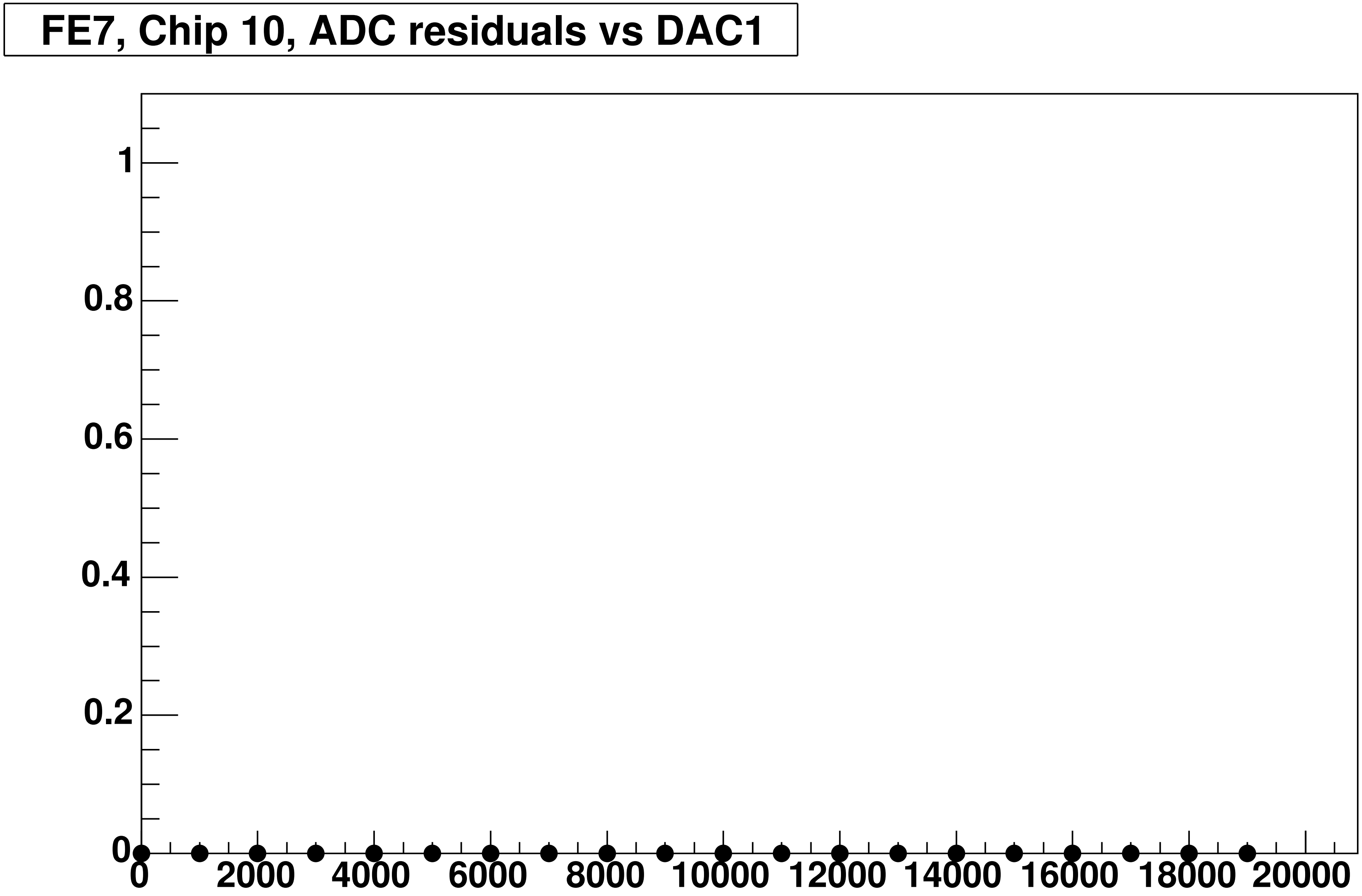


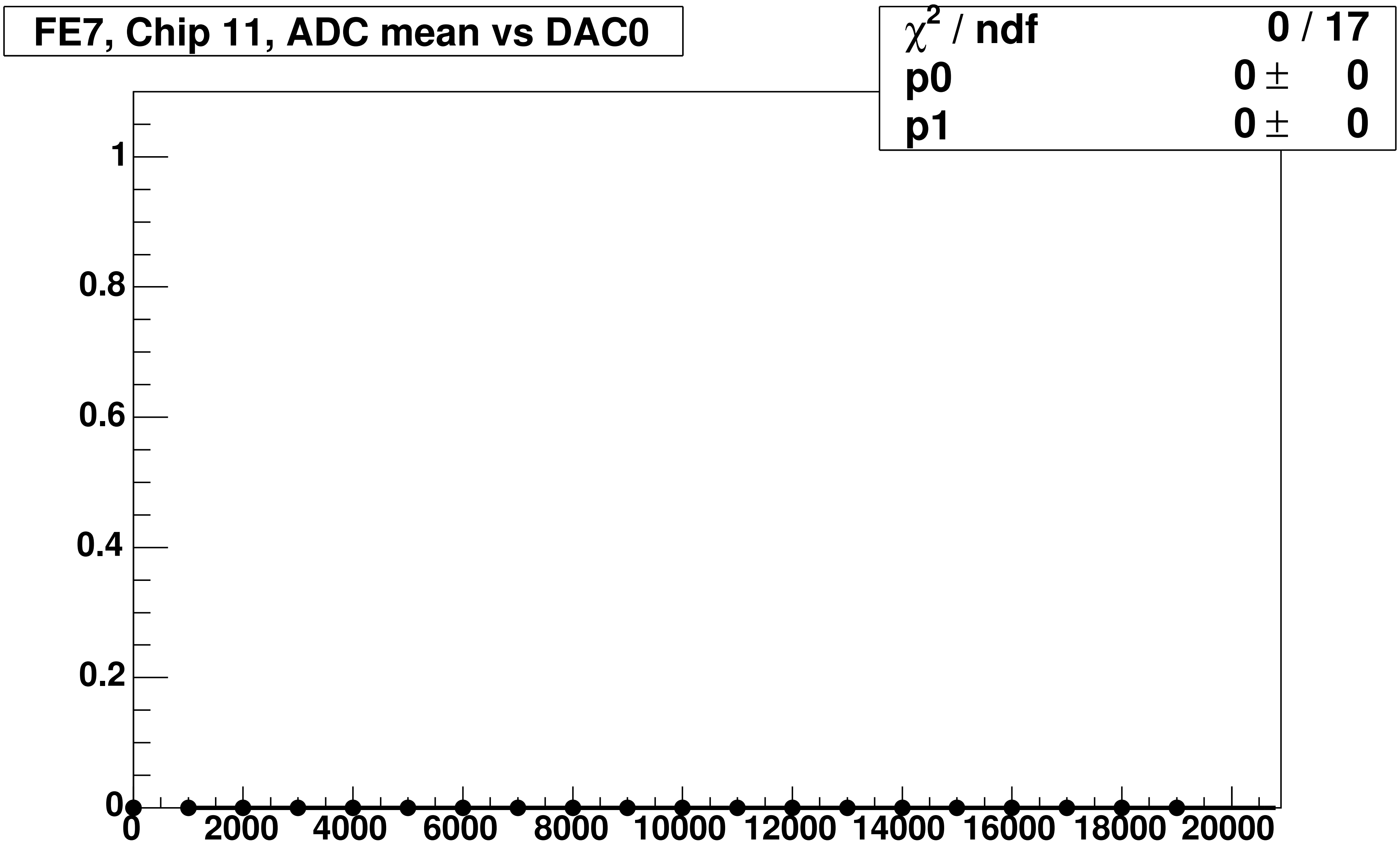


FE7, Chip 10, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

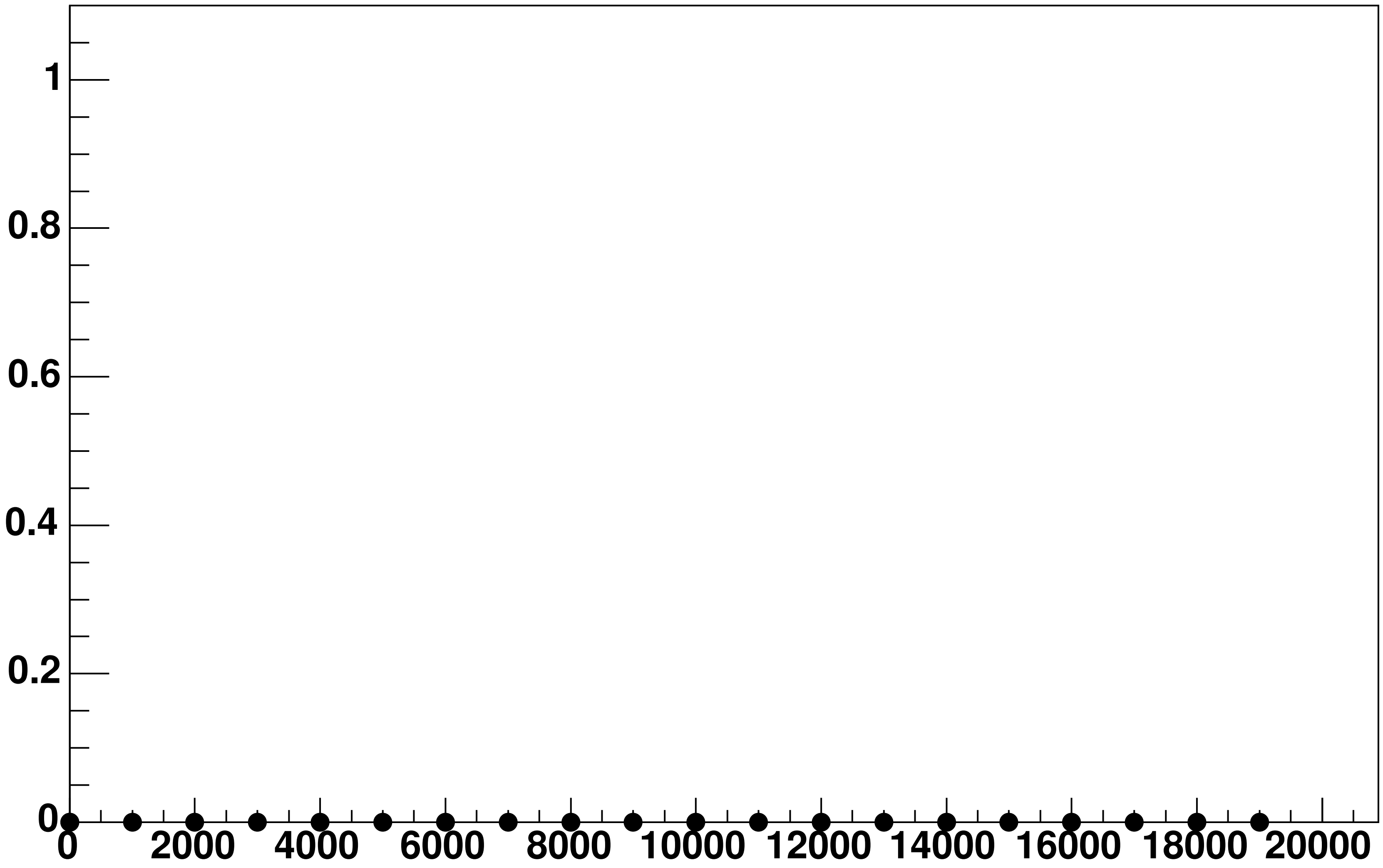


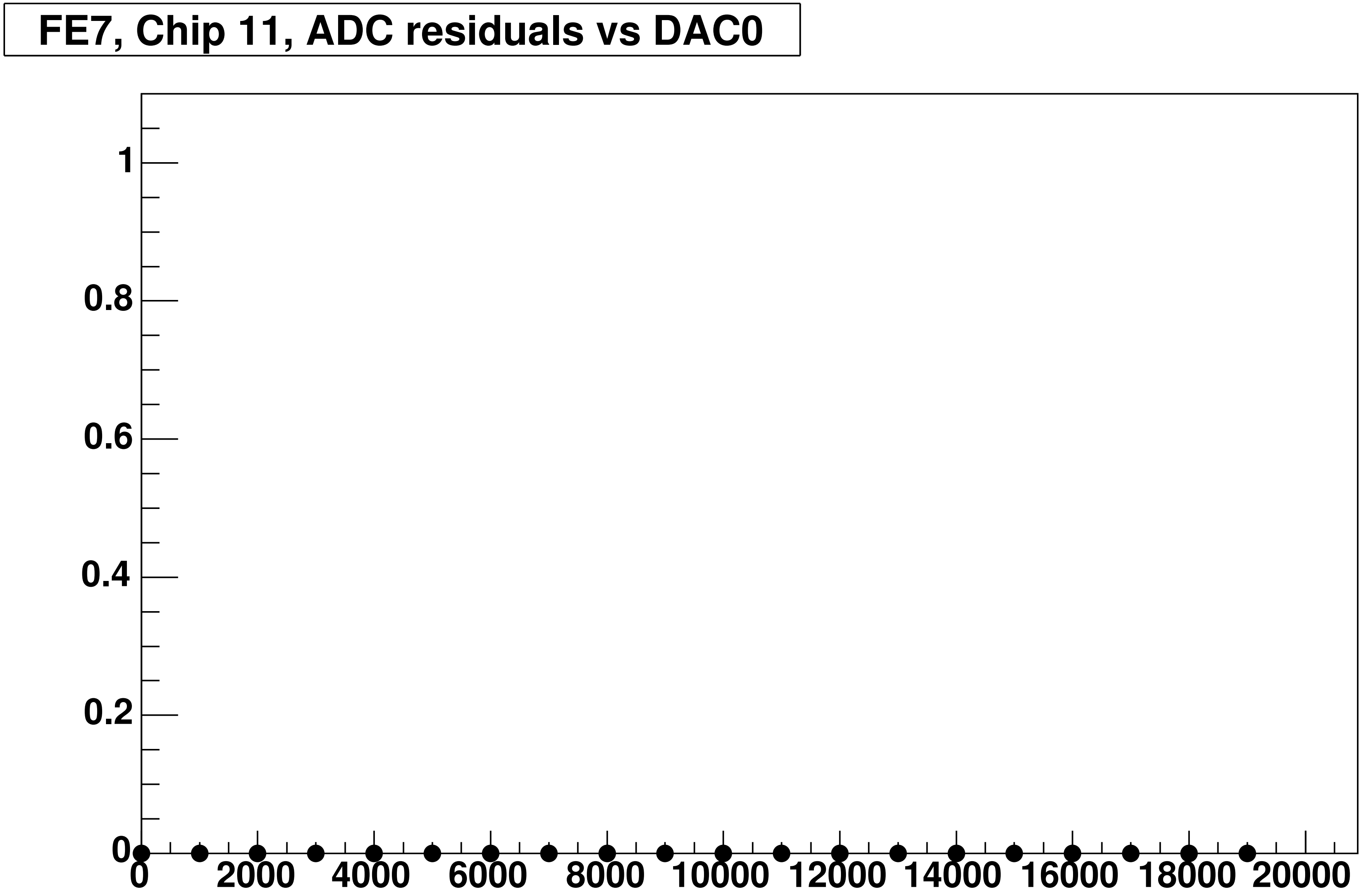
FE7, Chip 10, ADC noise vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

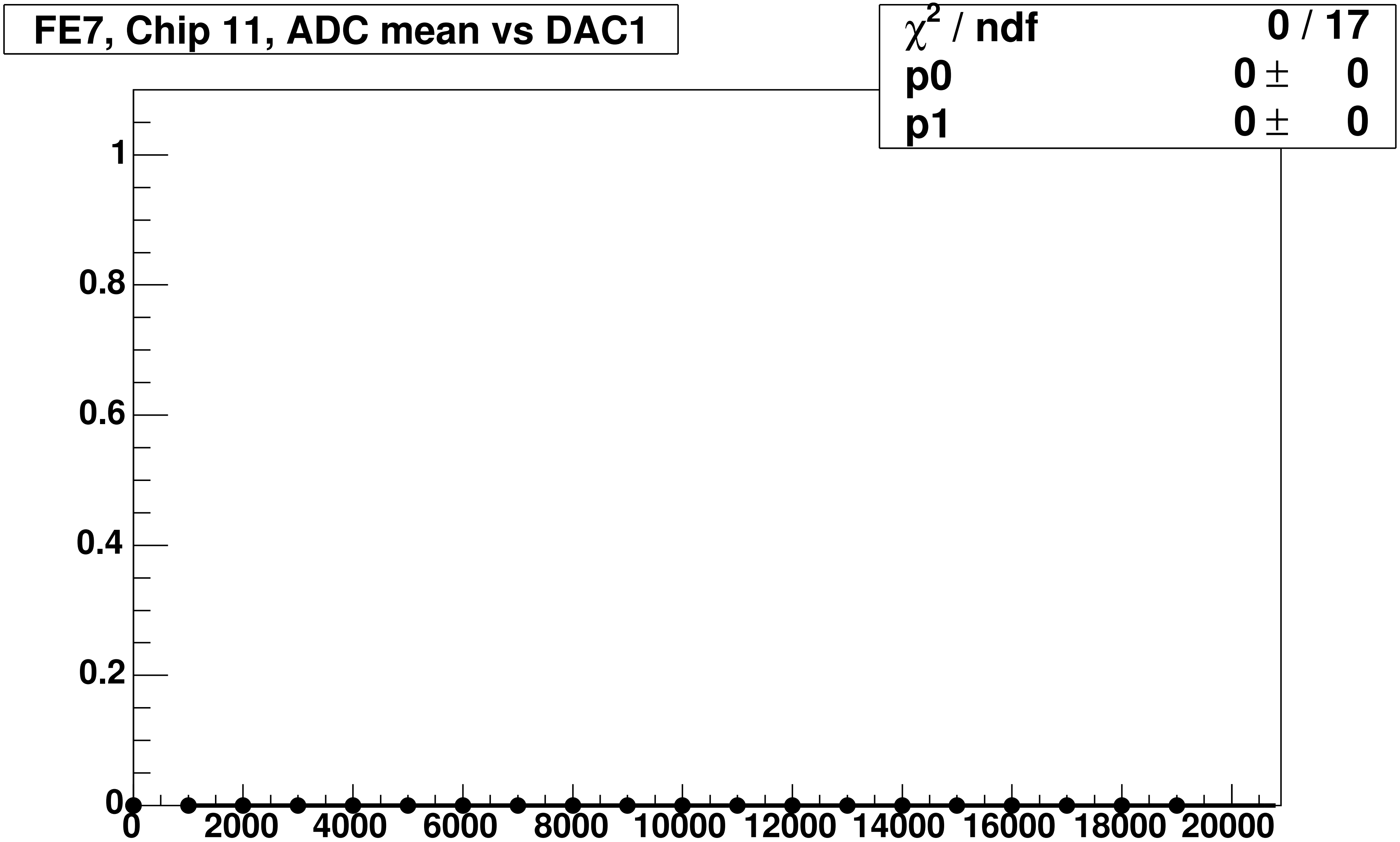

FE7, Chip 10, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

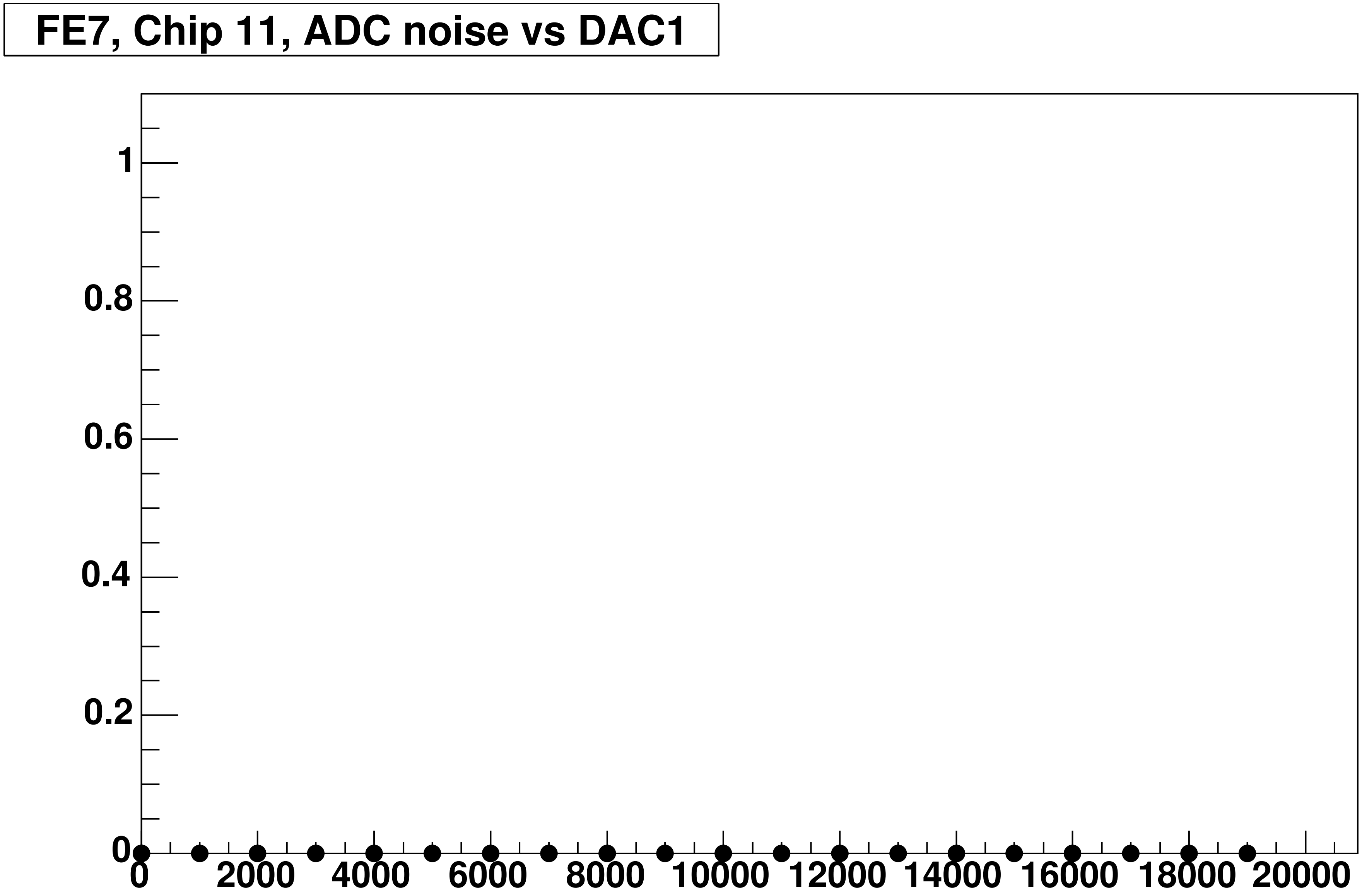

FE7, Chip 11, ADC mean vs DAC0
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

FE7, Chip 11, ADC noise vs DAC0




FE7, Chip 11, ADC residuals vs DAC0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE7, Chip 11, ADC mean vs DAC1
$\chi^2$ / ndf 0 / 17
p0 0 ± 0
p1 0 ± 0
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


FE7, Chip 11, ADC noise vs DAC1
0
0.2
0.4
0.6
0.8
1
0
2000
4000
6000
8000
10000
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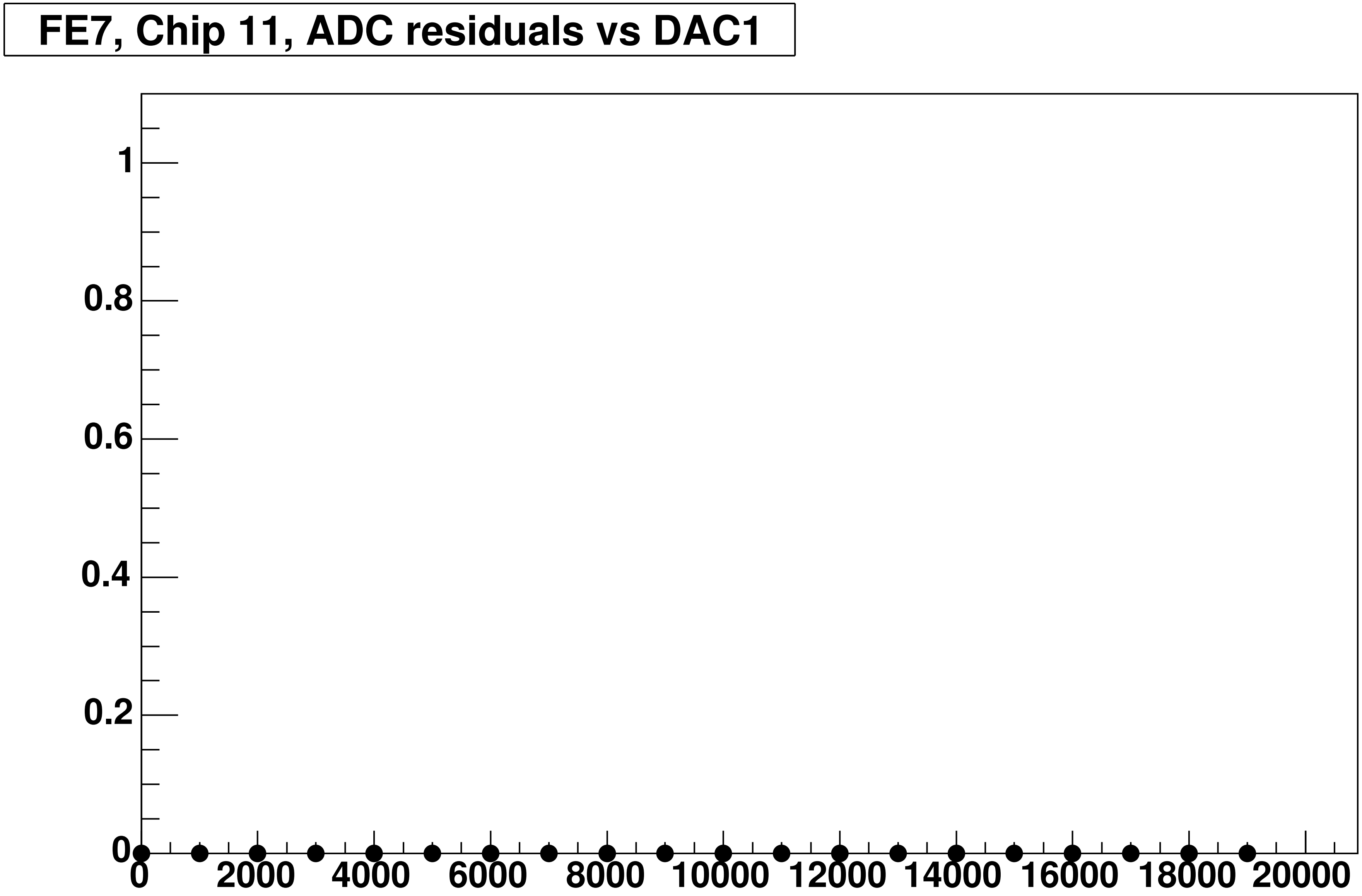
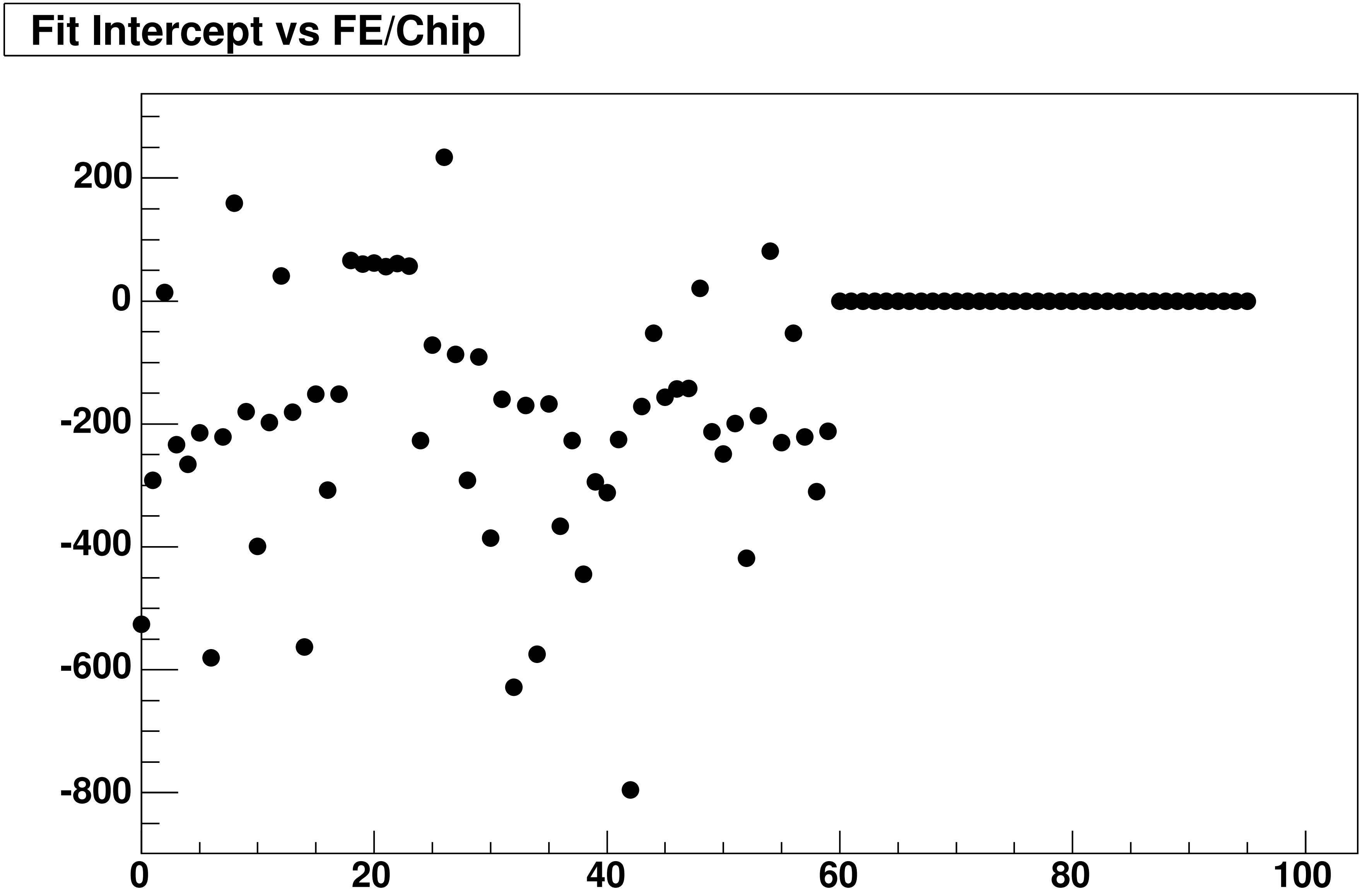
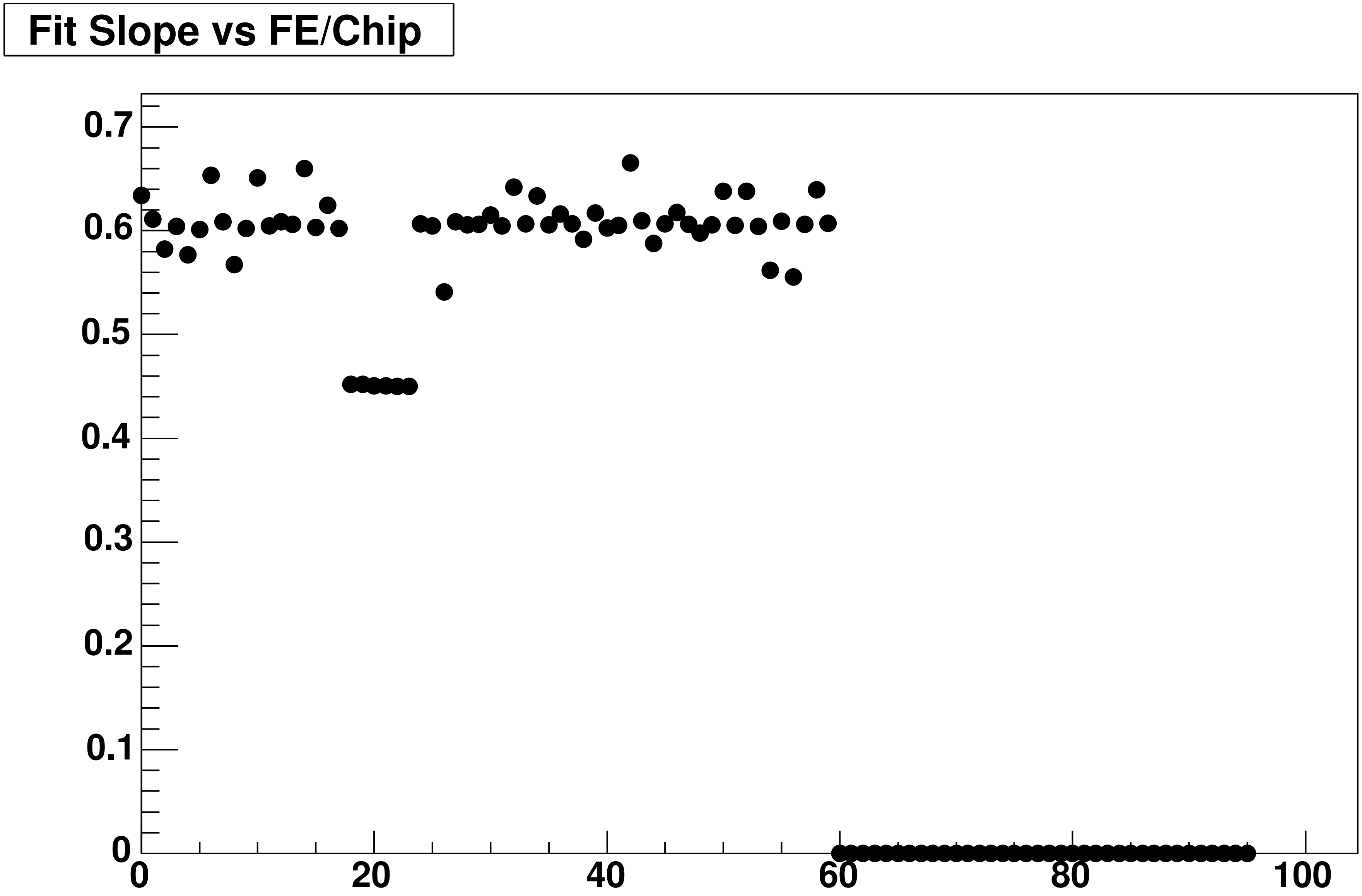
14000
16000
18000
20000


FE7, Chip 11, ADC residuals vs DAC1
1
0.8
0.6
0.4
0.2
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000



Fit Intercept vs FE/Chip
200
0
-200
-400
-600
-800
0
20
40
60
80
100



Fit Slope vs FE/Chip
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
20
40
60
80
100