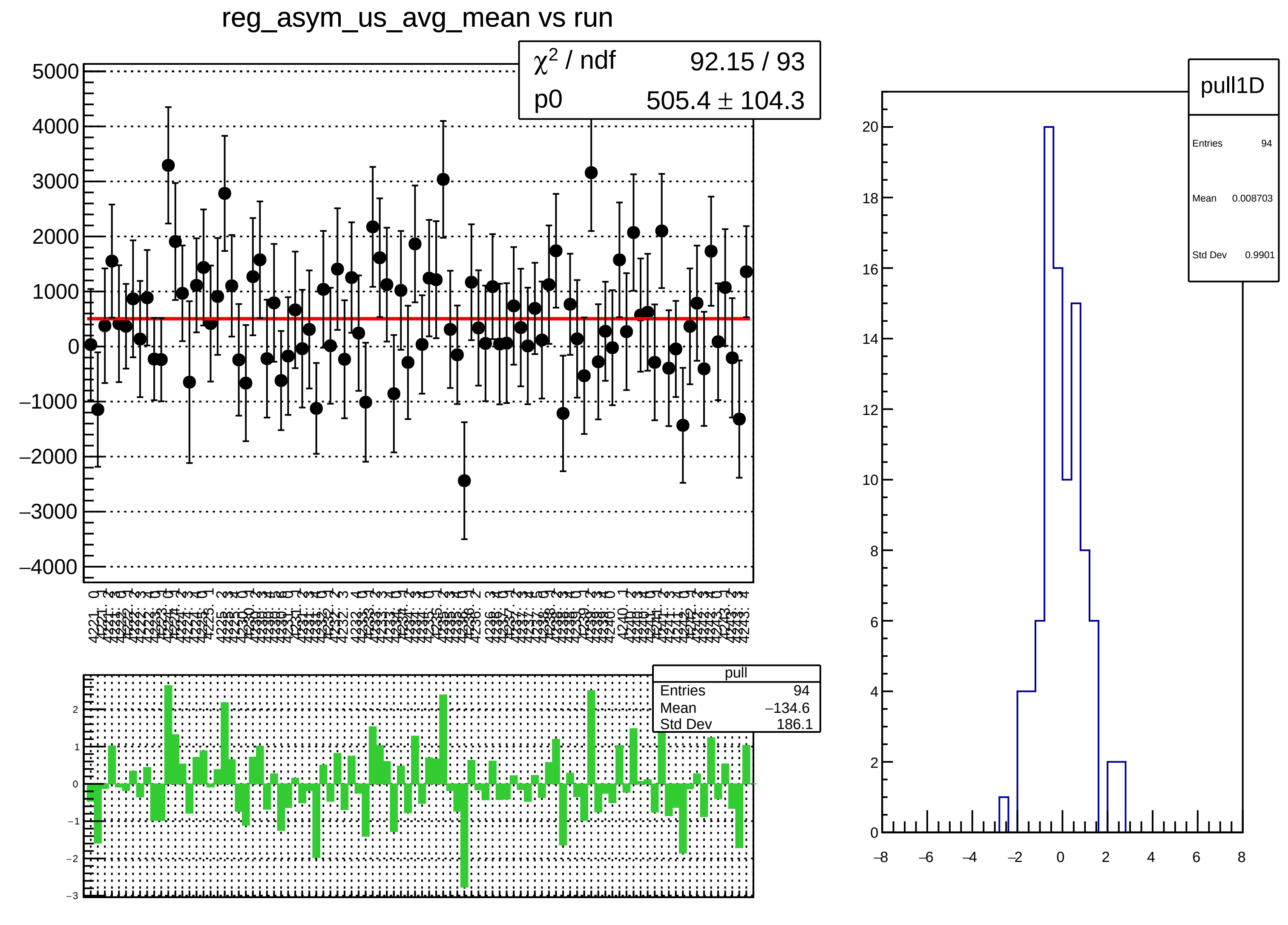
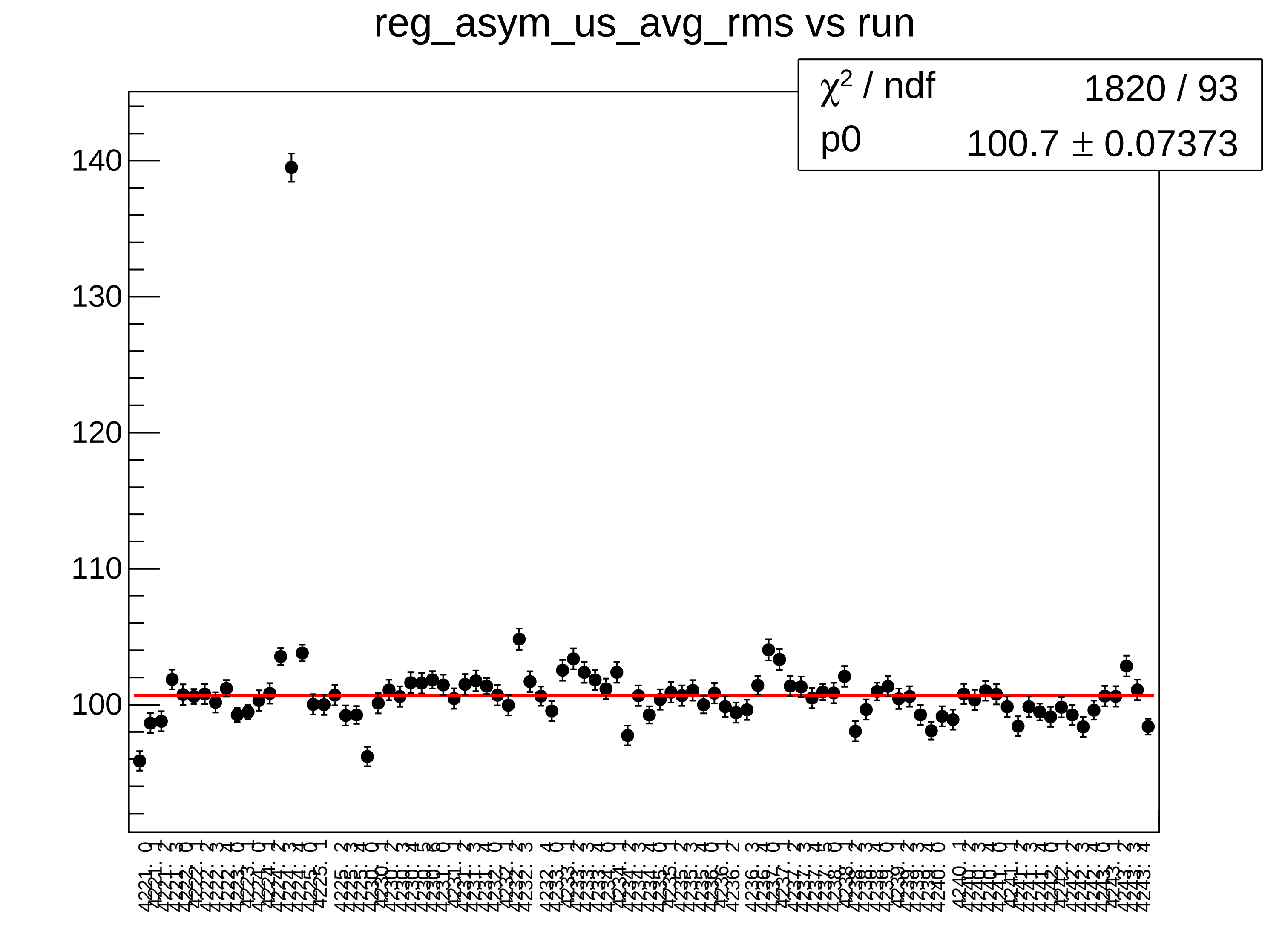
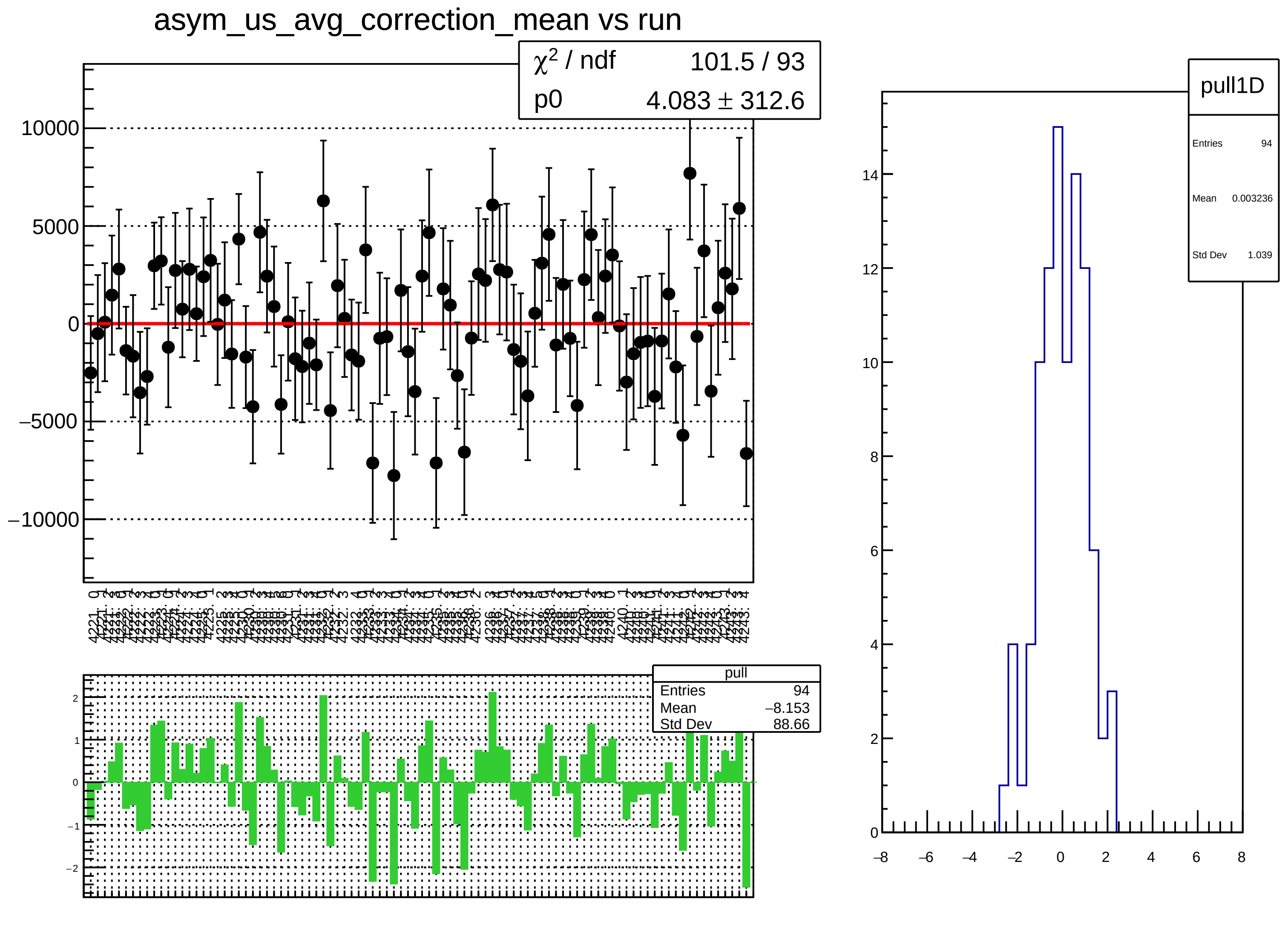


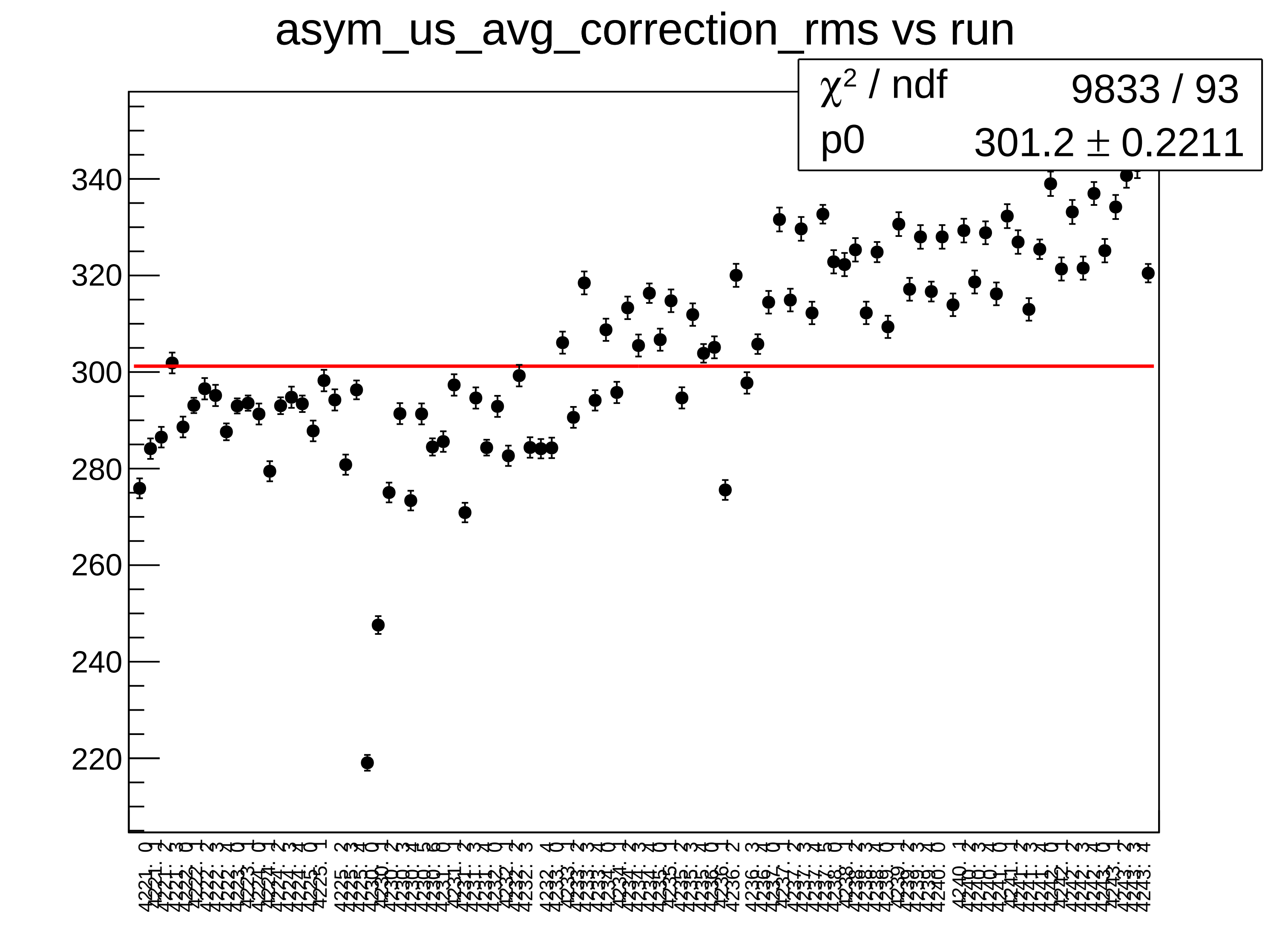
reg_asym_us_avg_mean vs run
χ^2 / ndf 92.15 / 93
p0 505.4 ± 104.3
pull
Entries 94
Mean −134.6
Std Dev 186.1
pull1D
Entries 94
Mean 0.008703
Std Dev 0.9901

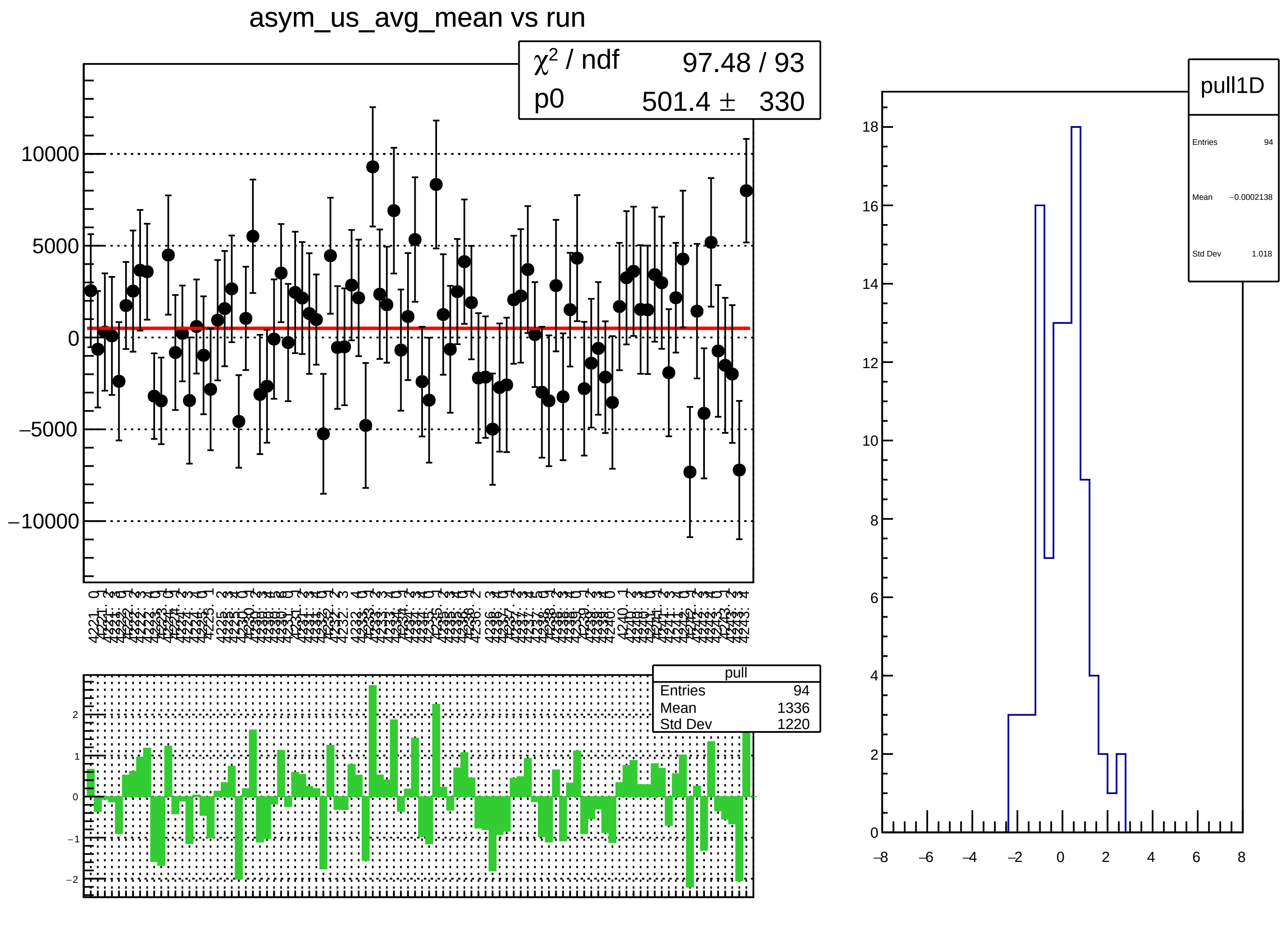


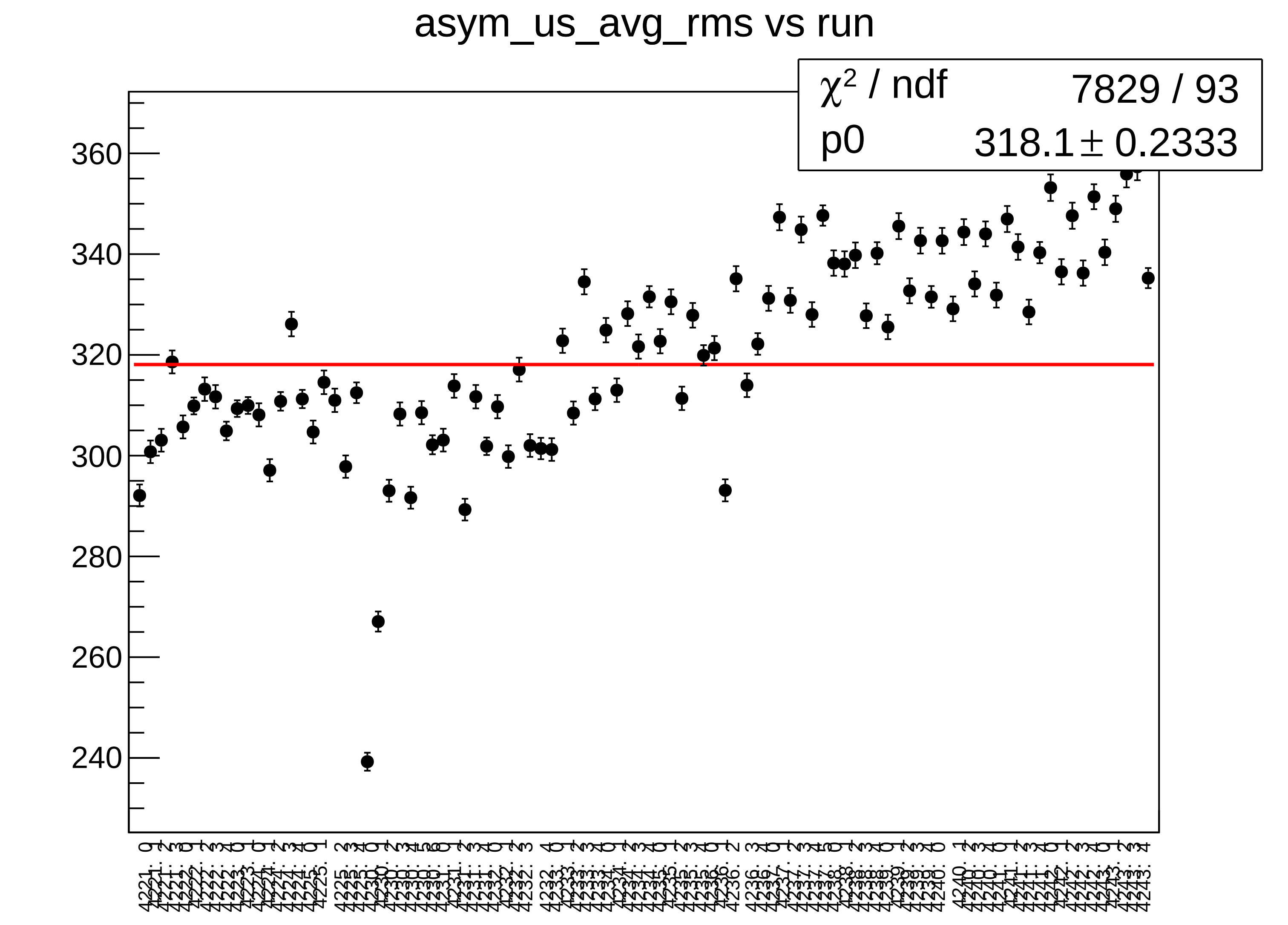
reg_asym_us_avg_rms vs run
χ2 / ndf 1820 / 93
p0 100.7 ± 0.07373
140
130
120
110
100

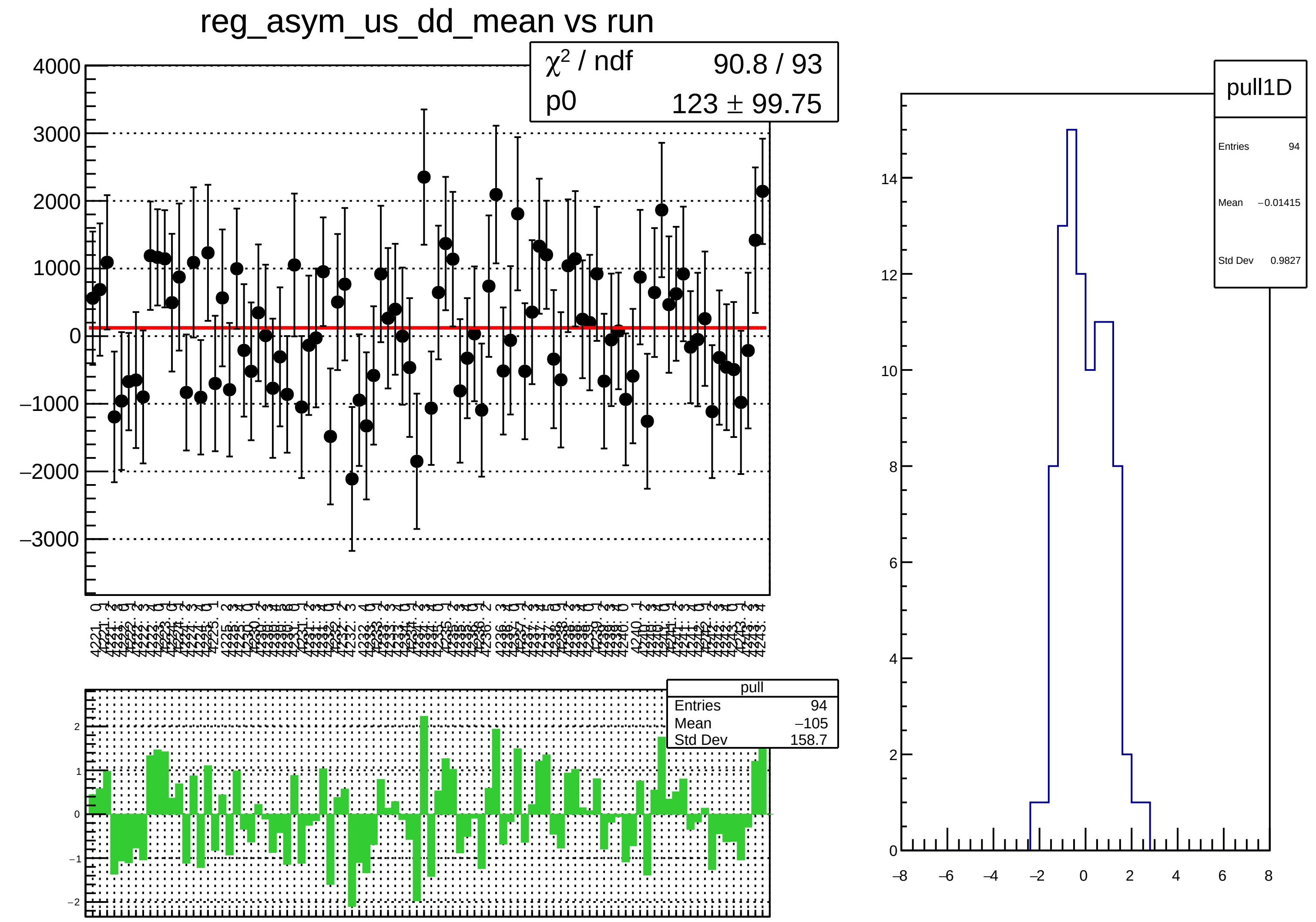


asym_us_avg_correction_mean vs run
χ^2 / ndf 101.5 / 93
p0 4.083 ± 312.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −8.153
Std Dev 88.66
pull1D
Entries 94
Mean 0.003236
Std Dev 1.039

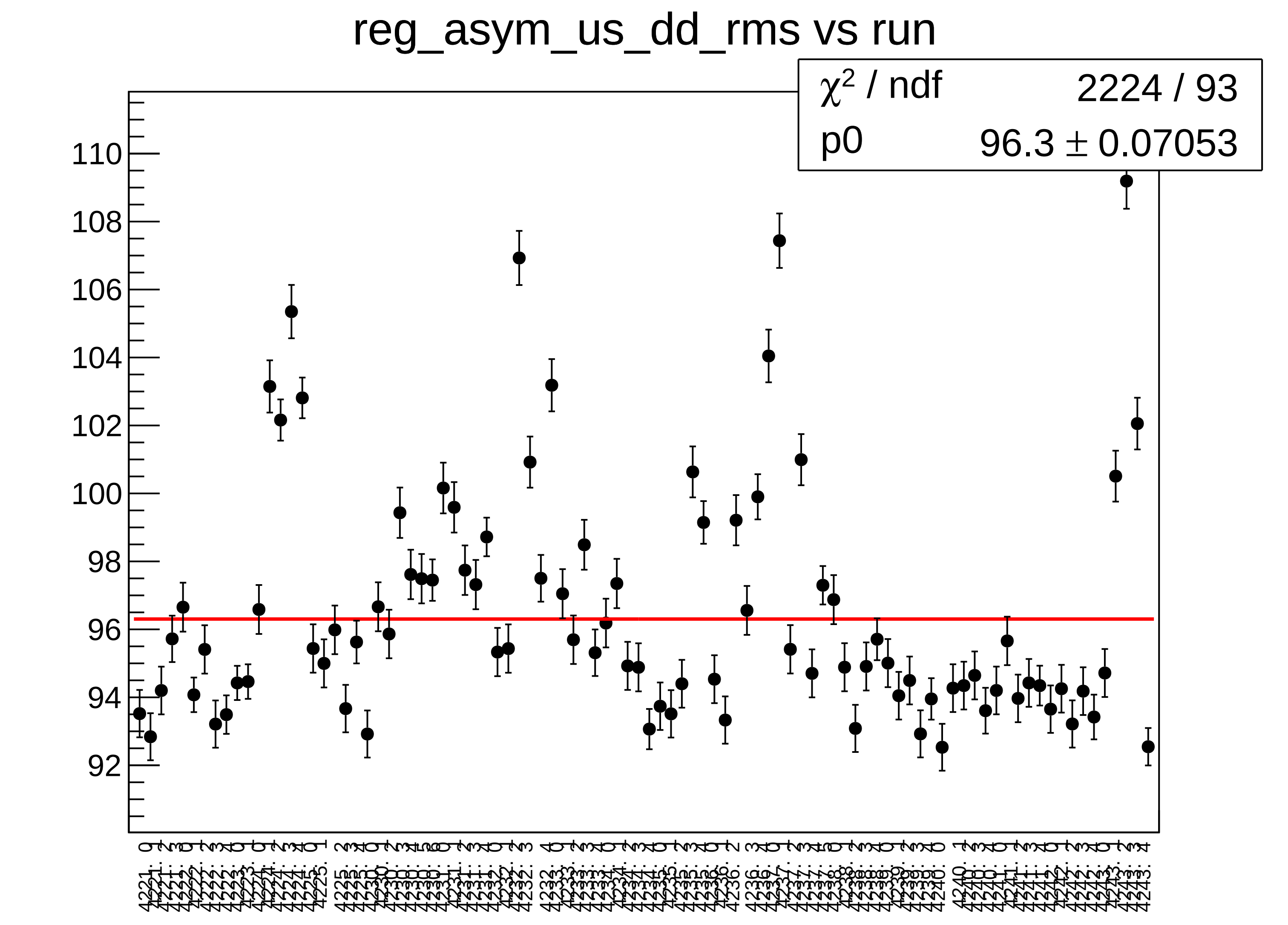

asym_us_avg_correction_rms vs run
χ2 / ndf 9833 / 93
p0 301.2 ± 0.2211
340
320
300
280
260
240
220


asym_us_avg_mean vs run
χ^2 / ndf 97.48 / 93
p0 501.4 ± 330
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 1336
Std Dev 1220
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.0002138
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

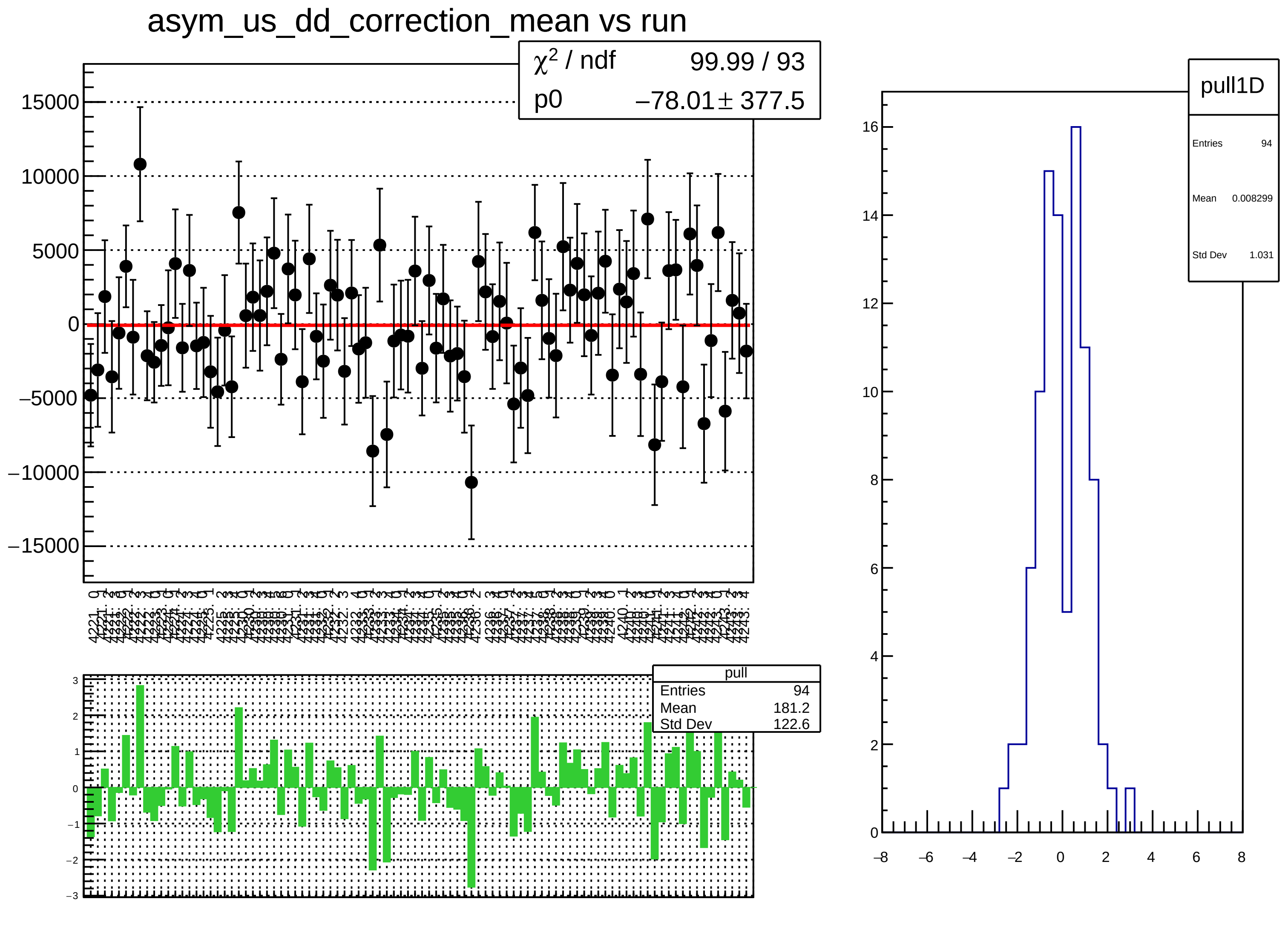

asym_us_avg_rms vs run
χ2 / ndf 7829 / 93
p0 318.1 ± 0.2333
360
340
320
300
280
260
240



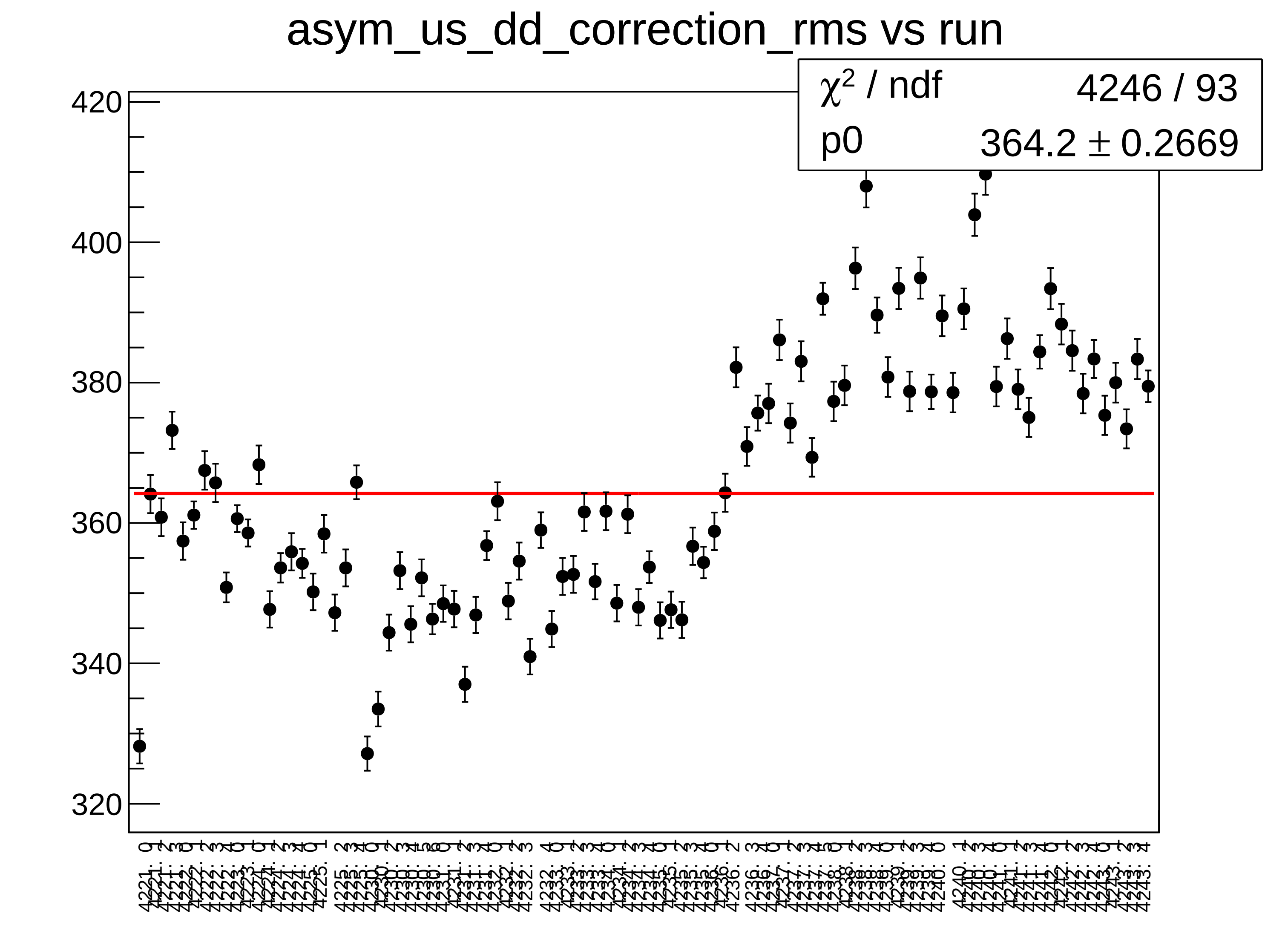
reg_asym_us_dd_mean vs run
χ^2 / ndf 90.8 / 93
p0 123 ± 99.75
pull
Entries 94
Mean −105
Std Dev 158.7
pull1D
Entries 94
Mean −0.01415
Std Dev 0.9827

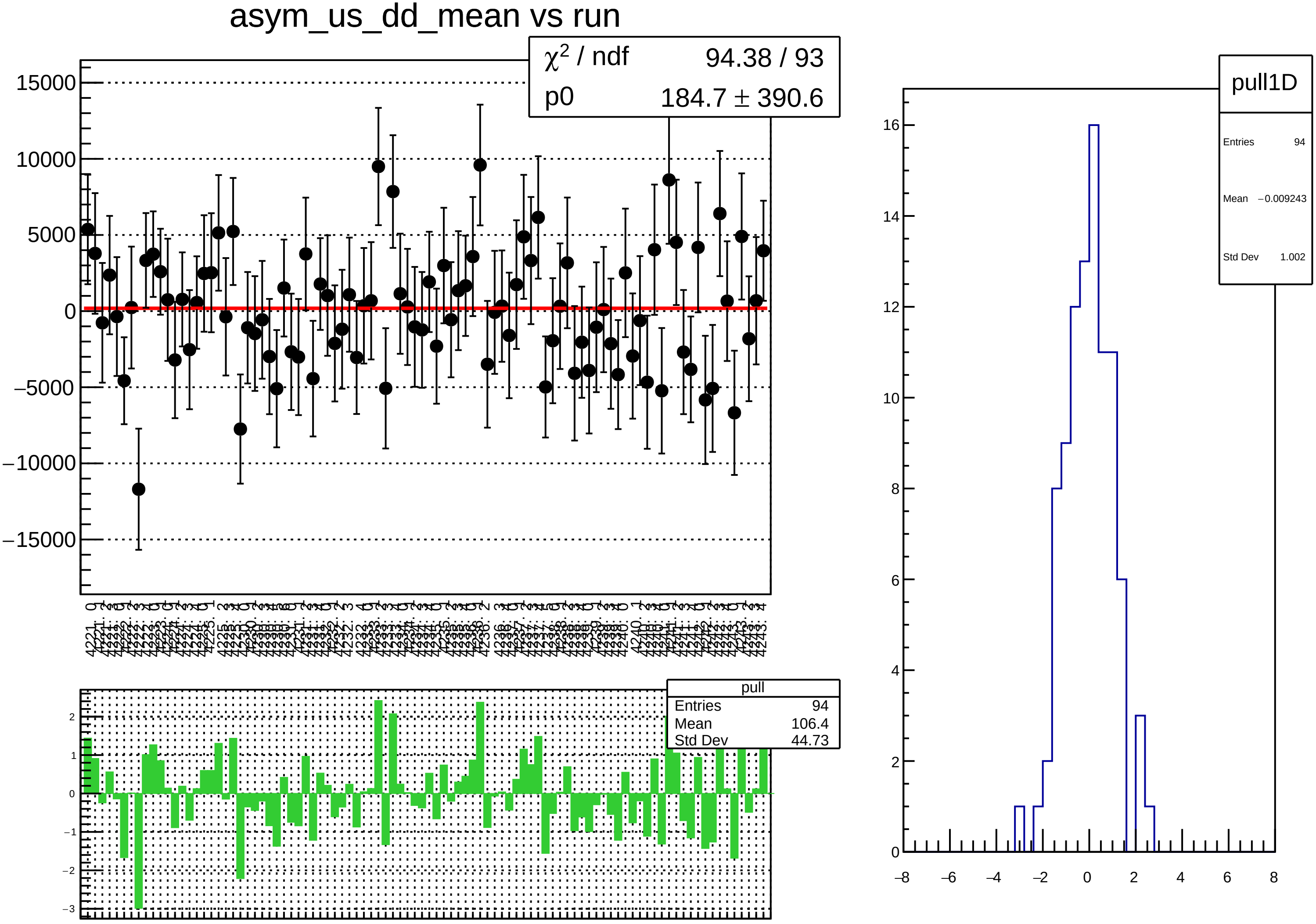


reg_asym_us_dd_rms vs run
χ^2 / ndf 2224 / 93
p0 96.3 ± 0.07053
110
108
106
104
102
100
98
96
94
92

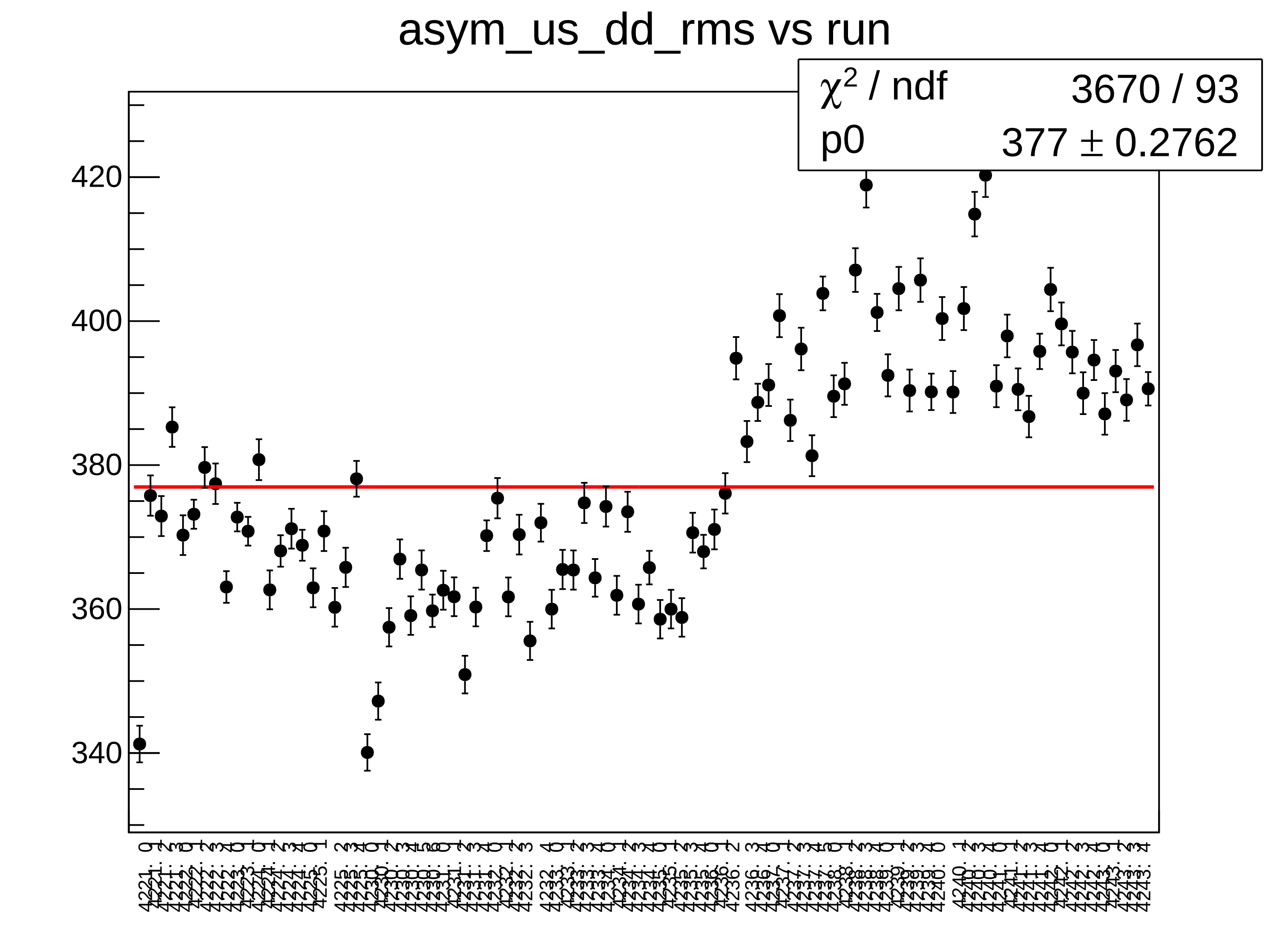


asym_us_dd_correction_mean vs run
χ^2 / ndf 99.99 / 93
p0 −78.01 ± 377.5
pull
Entries 94
Mean 181.2
Std Dev 122.6
pull1D
Entries 94
Mean 0.008299
Std Dev 1.031

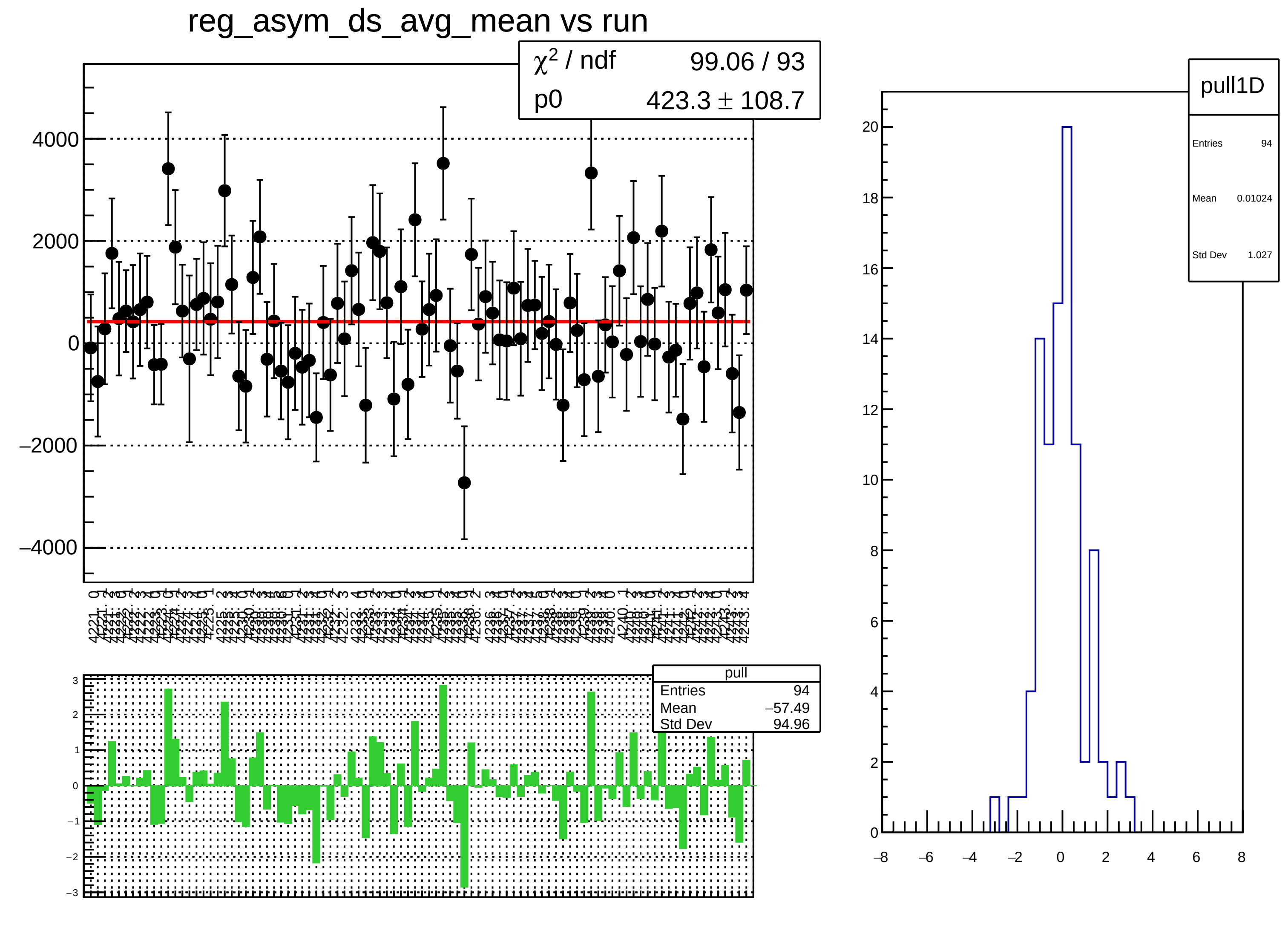

asym_us_dd_correction_rms vs run
χ^2 / ndf 4246 / 93
p0 364.2 ± 0.2669
420
400
380
360
340
320



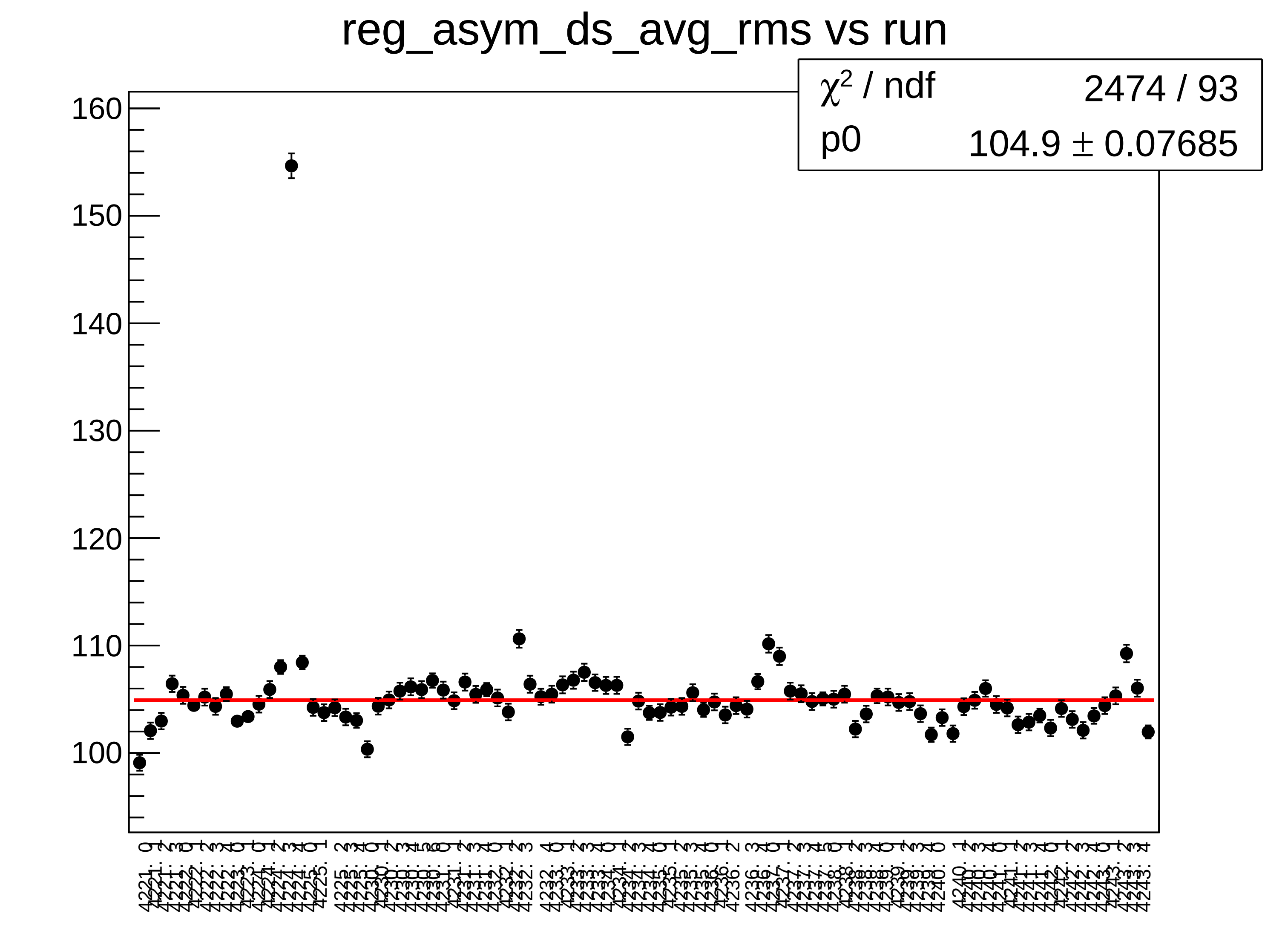
asym_us_dd_mean vs run
χ^2 / ndf 94.38 / 93
p0 184.7 ± 390.6
pull
Entries 94
Mean 106.4
Std Dev 44.73
pull1D
Entries 94
Mean −0.009243
Std Dev 1.002

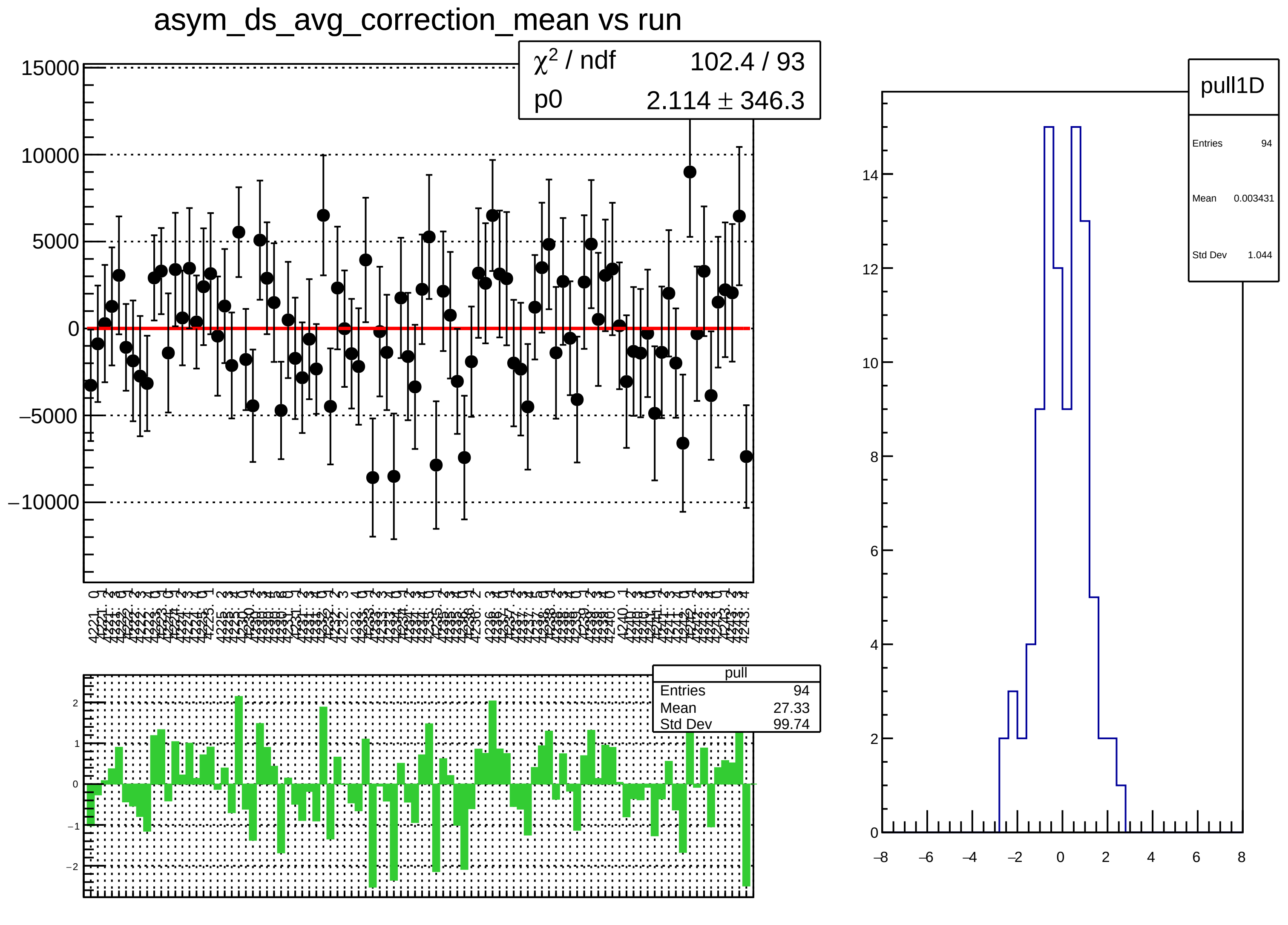


asym_us_dd_rms vs run
χ^2 / ndf 3670 / 93
p0 377 ± 0.2762
420
400
380
360
340

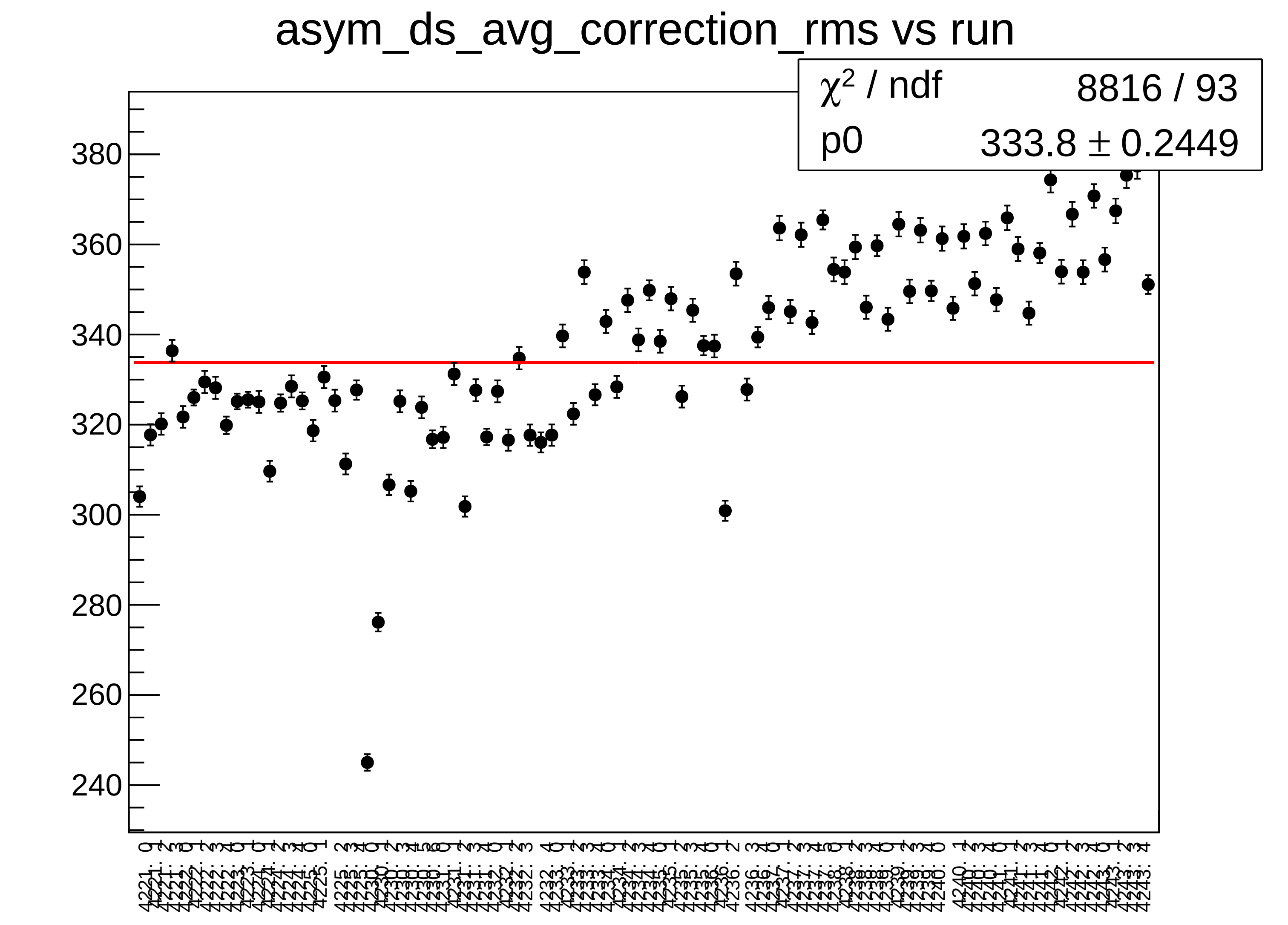


reg_asym_ds_avg_mean vs run
χ^2 / ndf 99.06 / 93
p0 423.3 ± 108.7
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −57.49
Std Dev 94.96
pull1D
Entries 94
Mean 0.01024
Std Dev 1.027

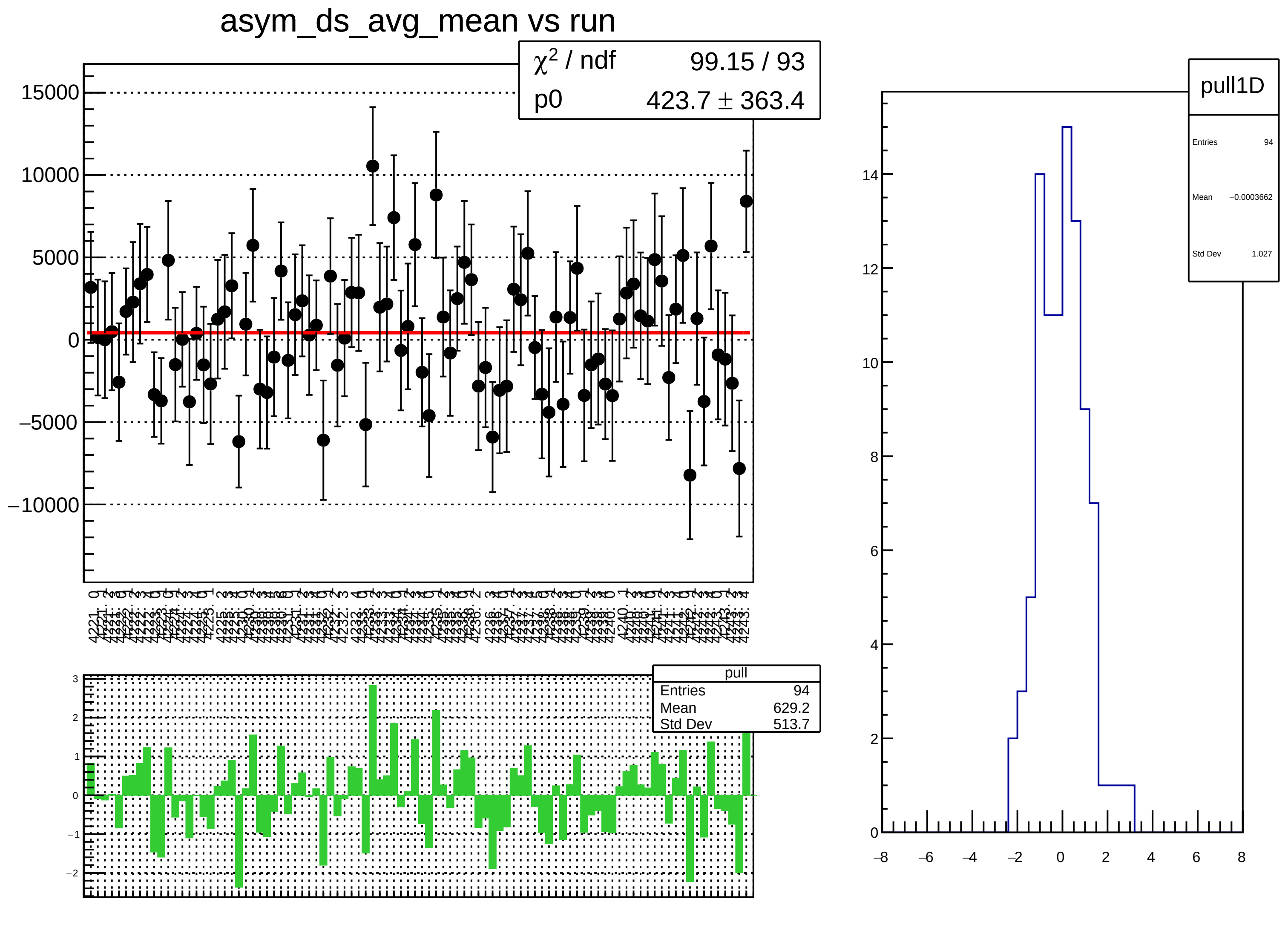

reg_asym_ds_avg_rms vs run
χ2 / ndf 2474 / 93
p0 104.9 ± 0.07685
160
150
140
130
120
110
100



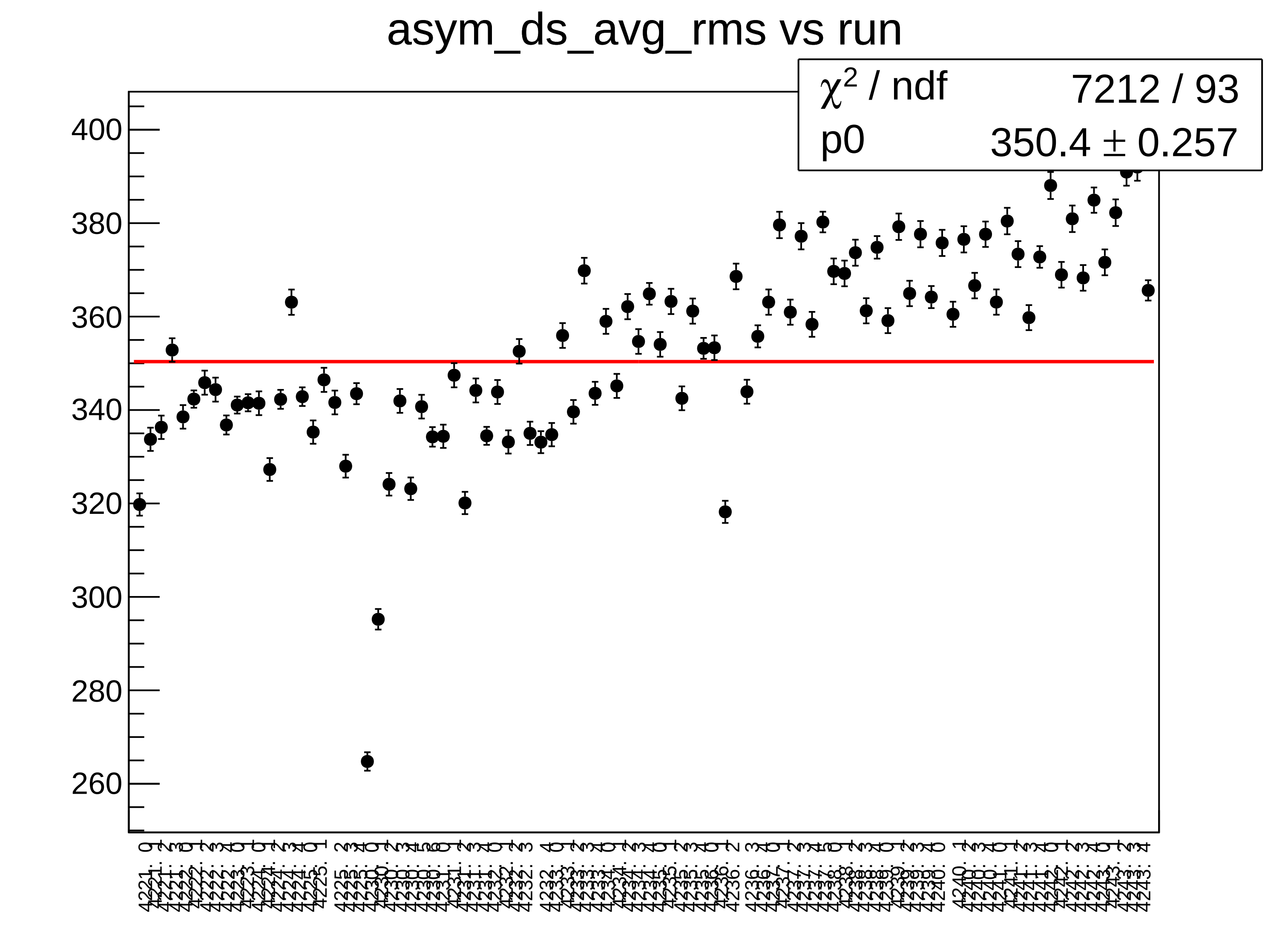
asym_ds_avg_correction_mean vs run
χ2 / ndf 102.4 / 93
p0 2.114 ± 346.3
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 27.33
Std Dev 99.74
pull1D
Entries 94
Mean 0.003431
Std Dev 1.044



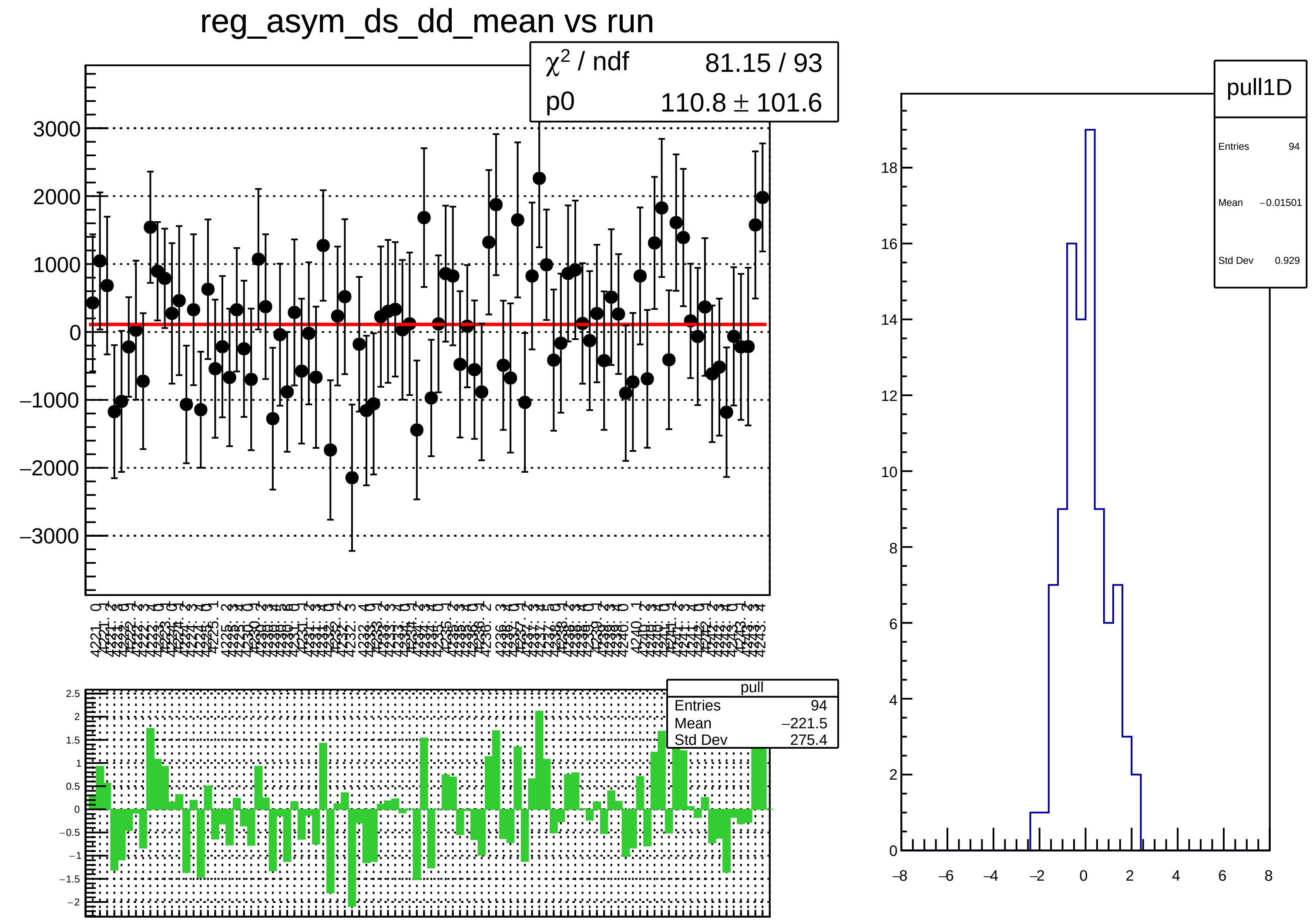
asym_ds_avg_correction_rms vs run
χ2 / ndf 8816 / 93
p0 333.8 ± 0.2449
380
360
340
320
300
280
260
240



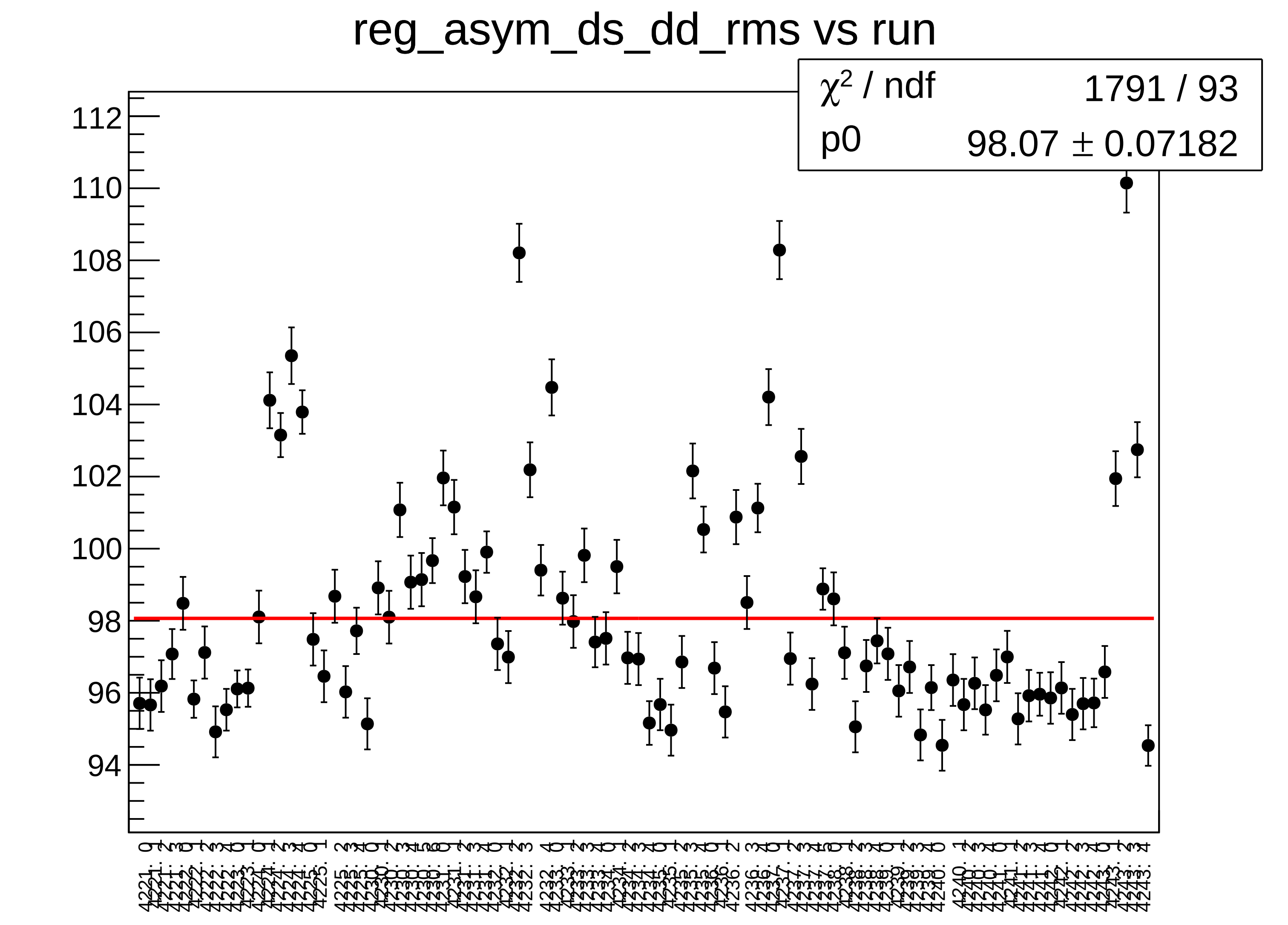
asym_ds_avg_mean vs run
χ^2 / ndf 99.15 / 93
p0 423.7 ± 363.4
pull
Entries 94
Mean 629.2
Std Dev 513.7
pull1D
Entries 94
Mean −0.0003662
Std Dev 1.027

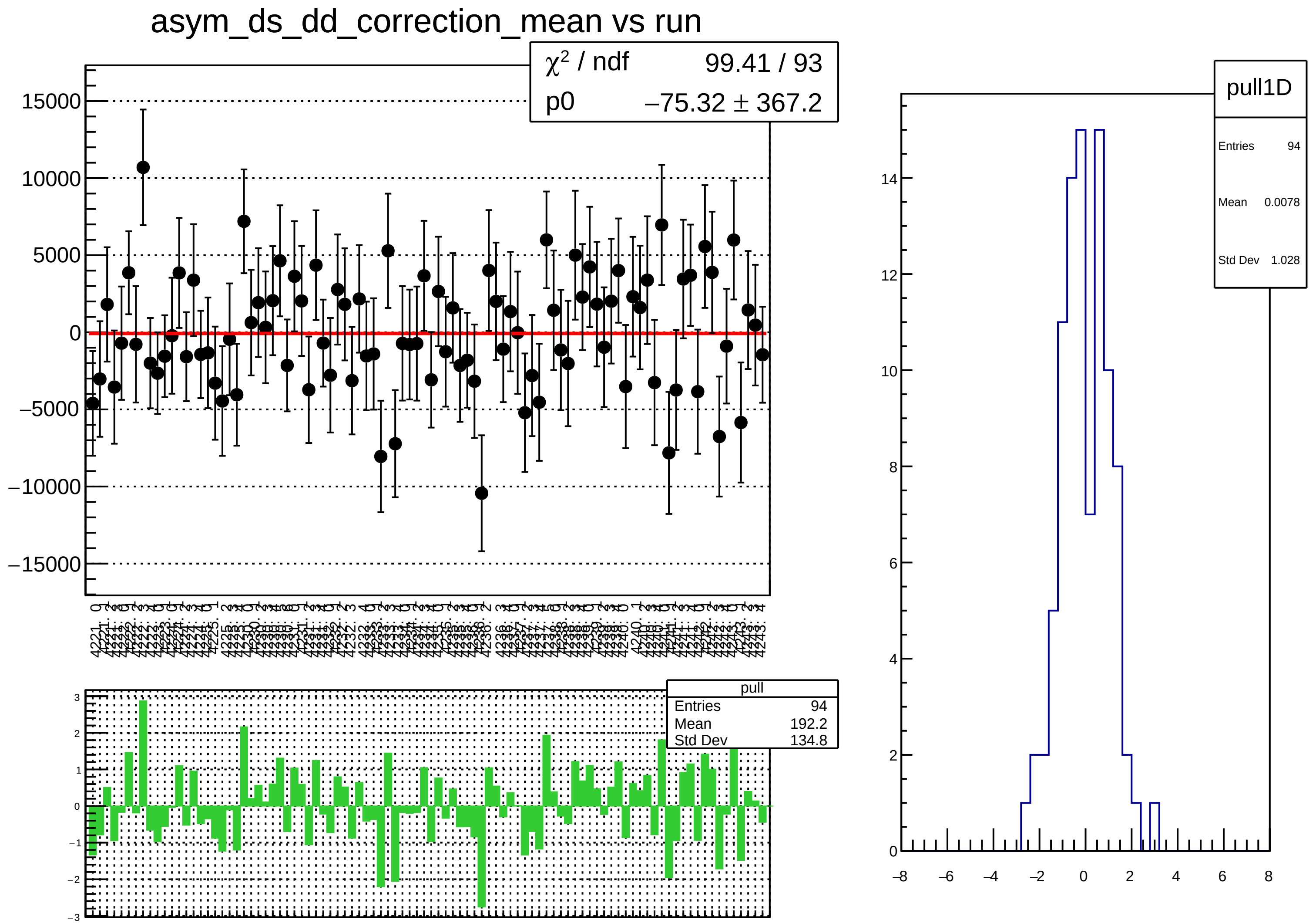


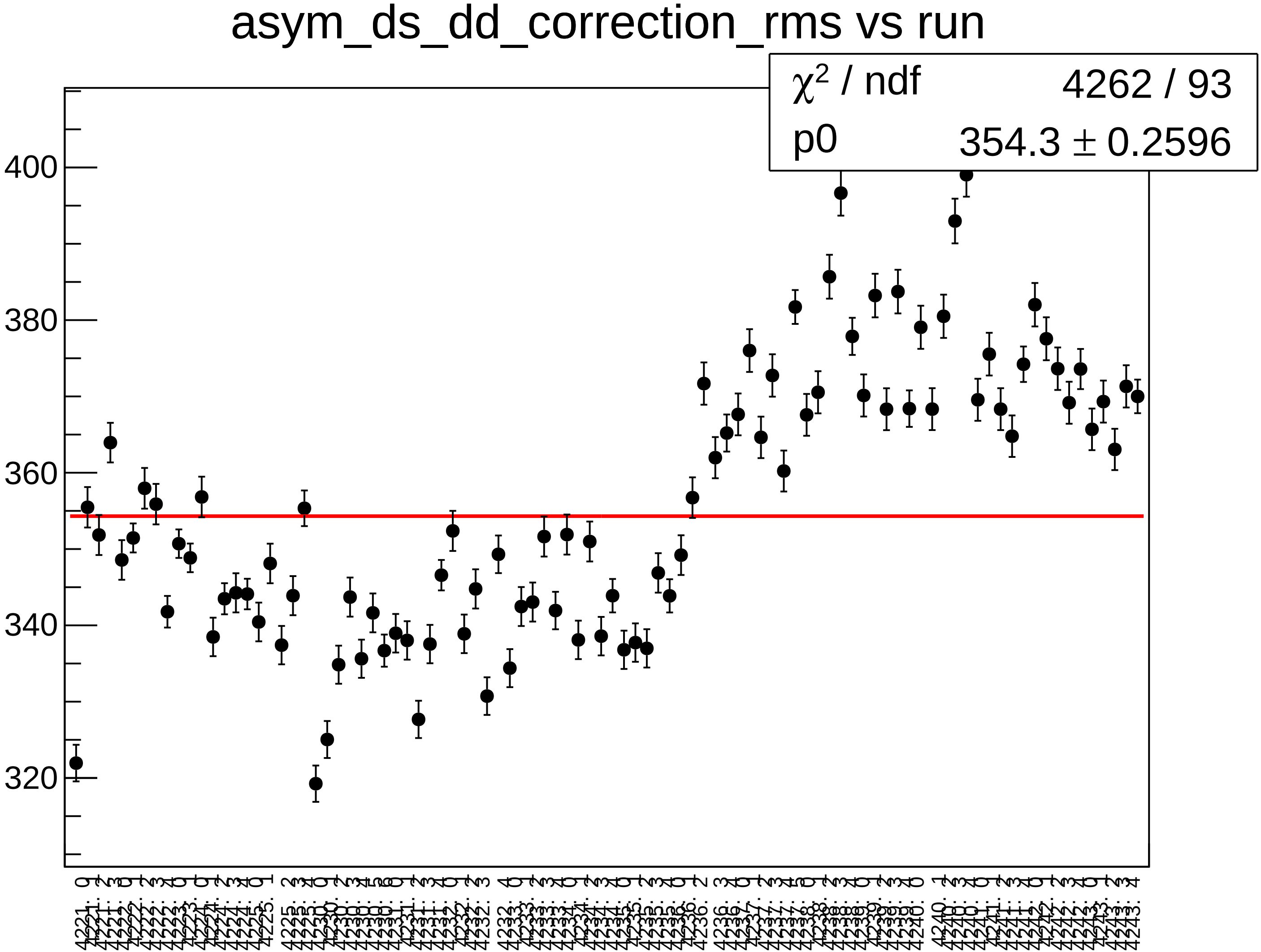
asym_ds_avg_rms vs run
χ2 / ndf 7212 / 93
p0 350.4 ± 0.257
400
380
360
340
320
300
280
260

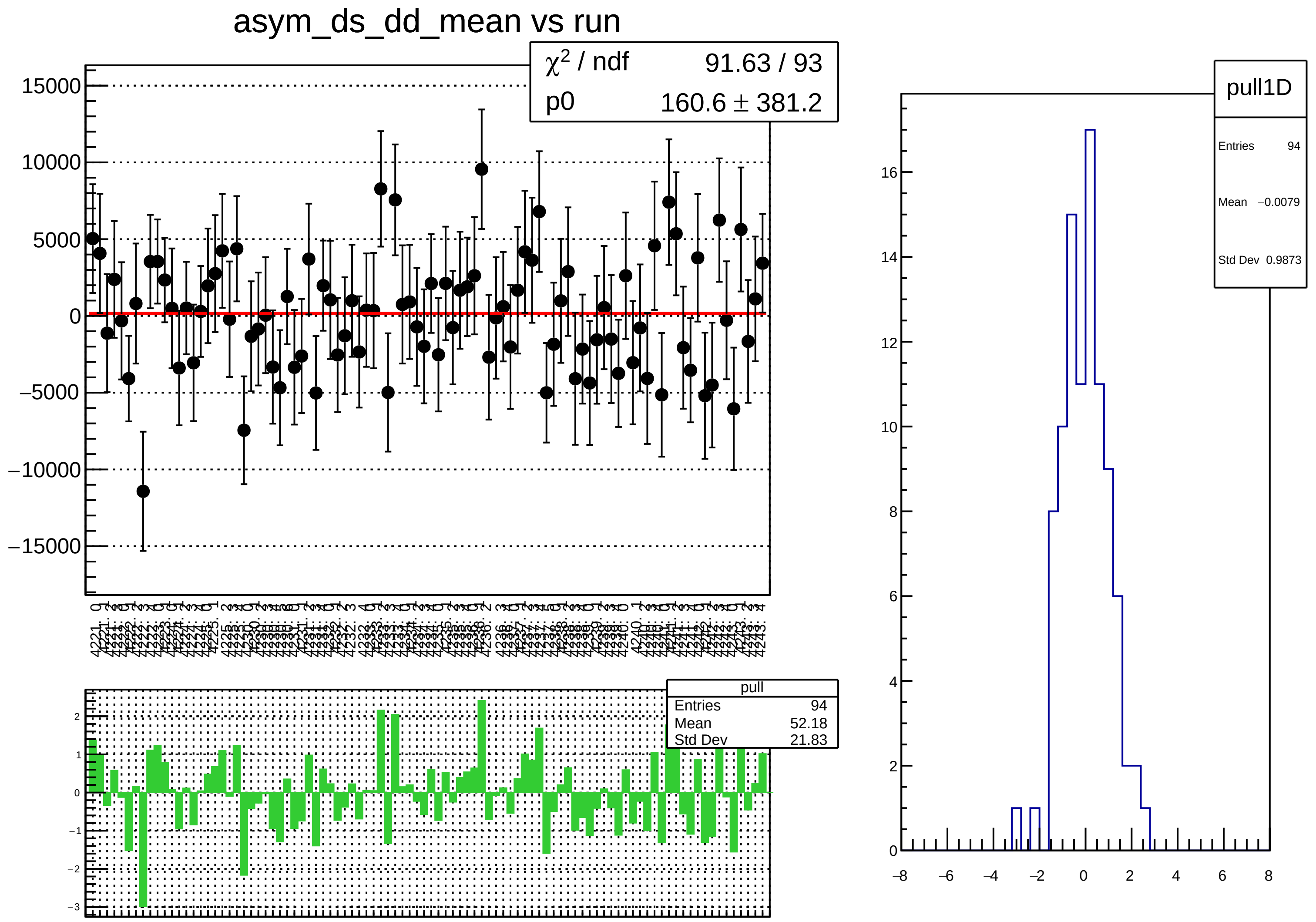


reg_asym_ds_dd_mean vs run
χ2 / ndf 81.15 / 93
p0 110.8 ± 101.6
pull
Entries 94
Mean −221.5
Std Dev 275.4
pull1D
Entries 94
Mean −0.01501
Std Dev 0.929

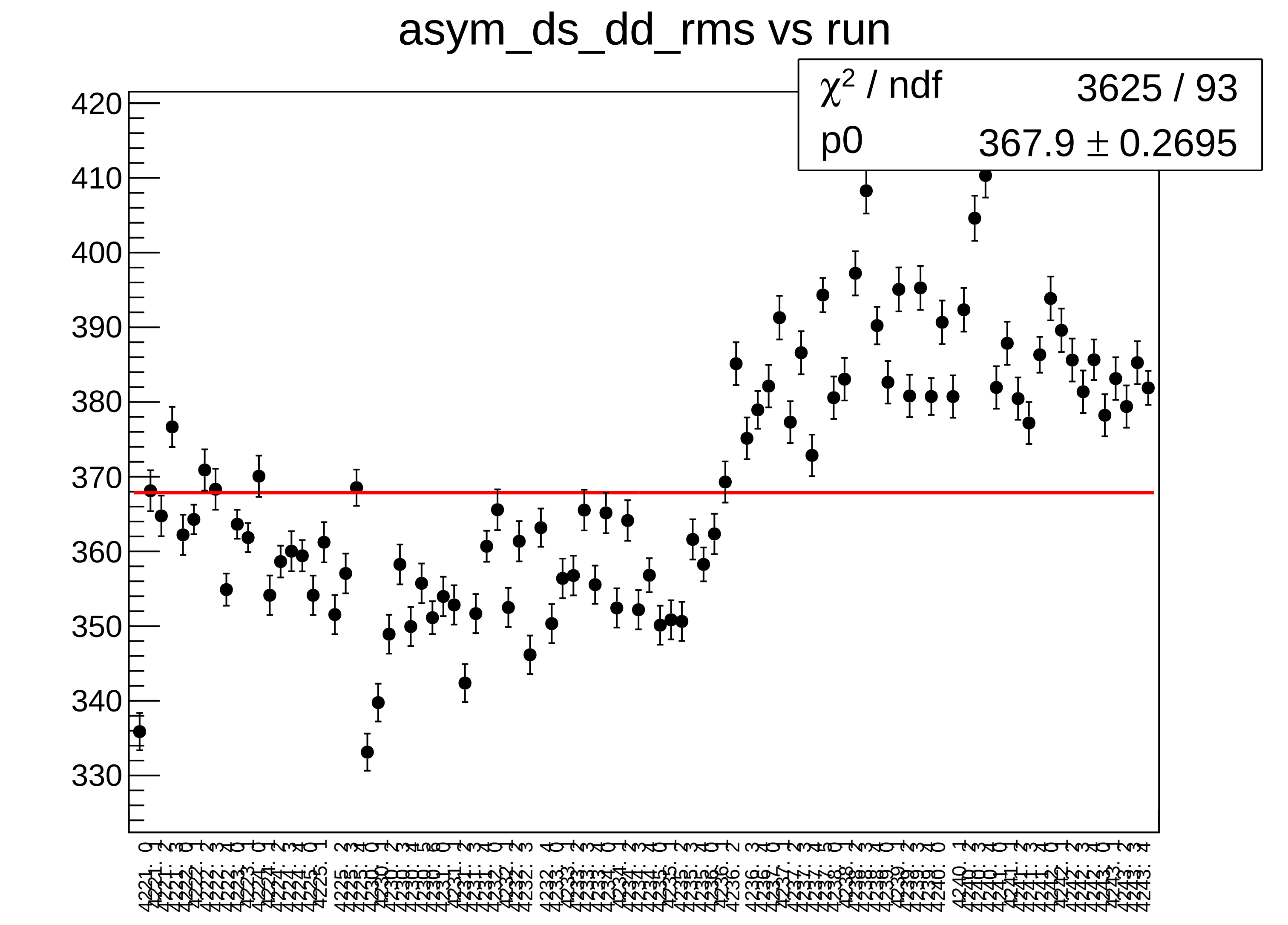

reg_asym_ds_dd_rms vs run
χ2 / ndf 1791 / 93
p0 98.07 ± 0.07182
112
110
108
106
104
102
100
98
96
94

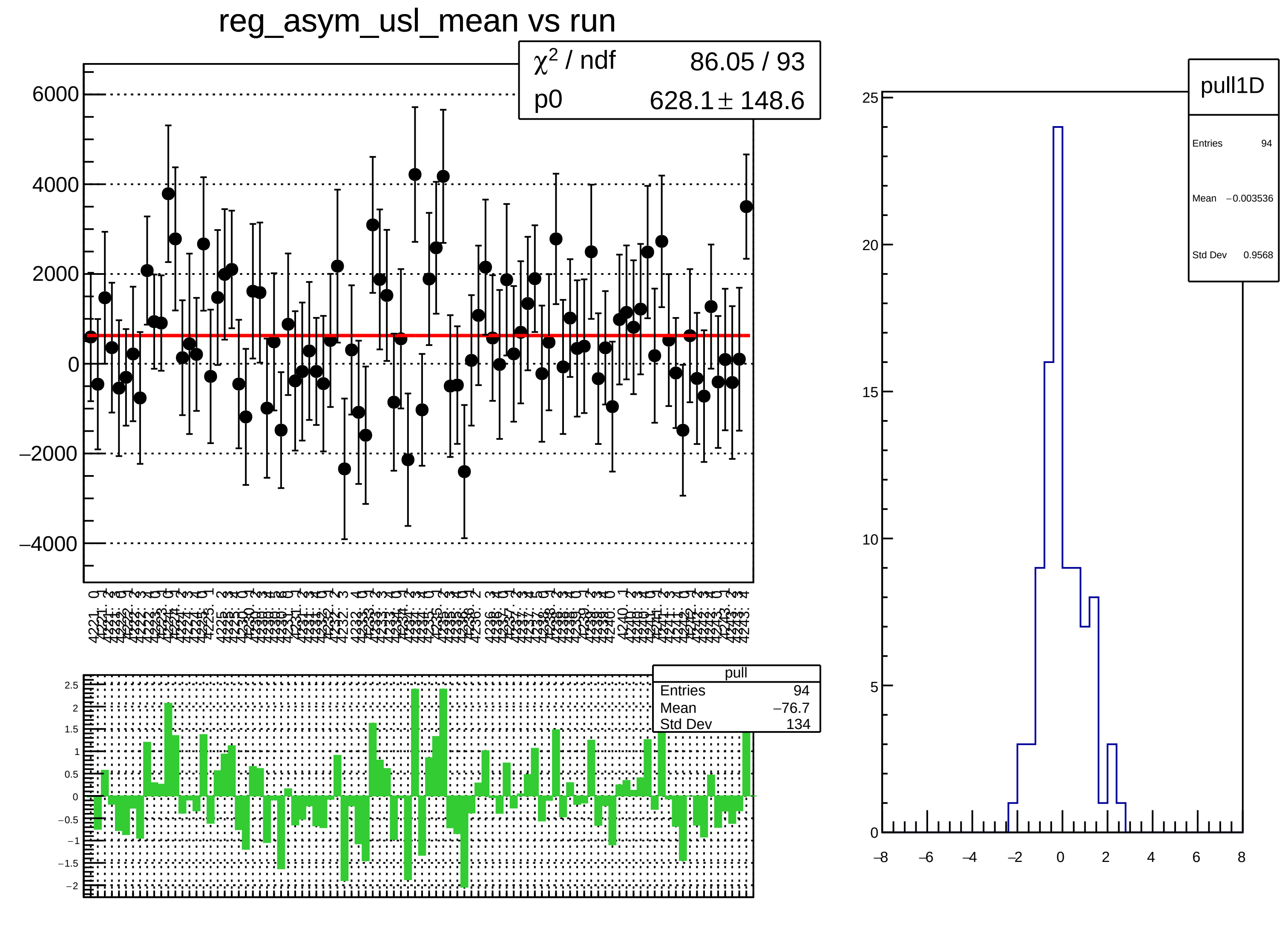

asym_ds_dd_correction_mean vs run
χ2 / ndf 99.41 / 93
p0 −75.32 ± 367.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 192.2
Std Dev 134.8
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.0078
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_dd_correction_rms vs run
χ2 / ndf 4262 / 93
p0 354.3 ± 0.2596
400
380
360
340
320

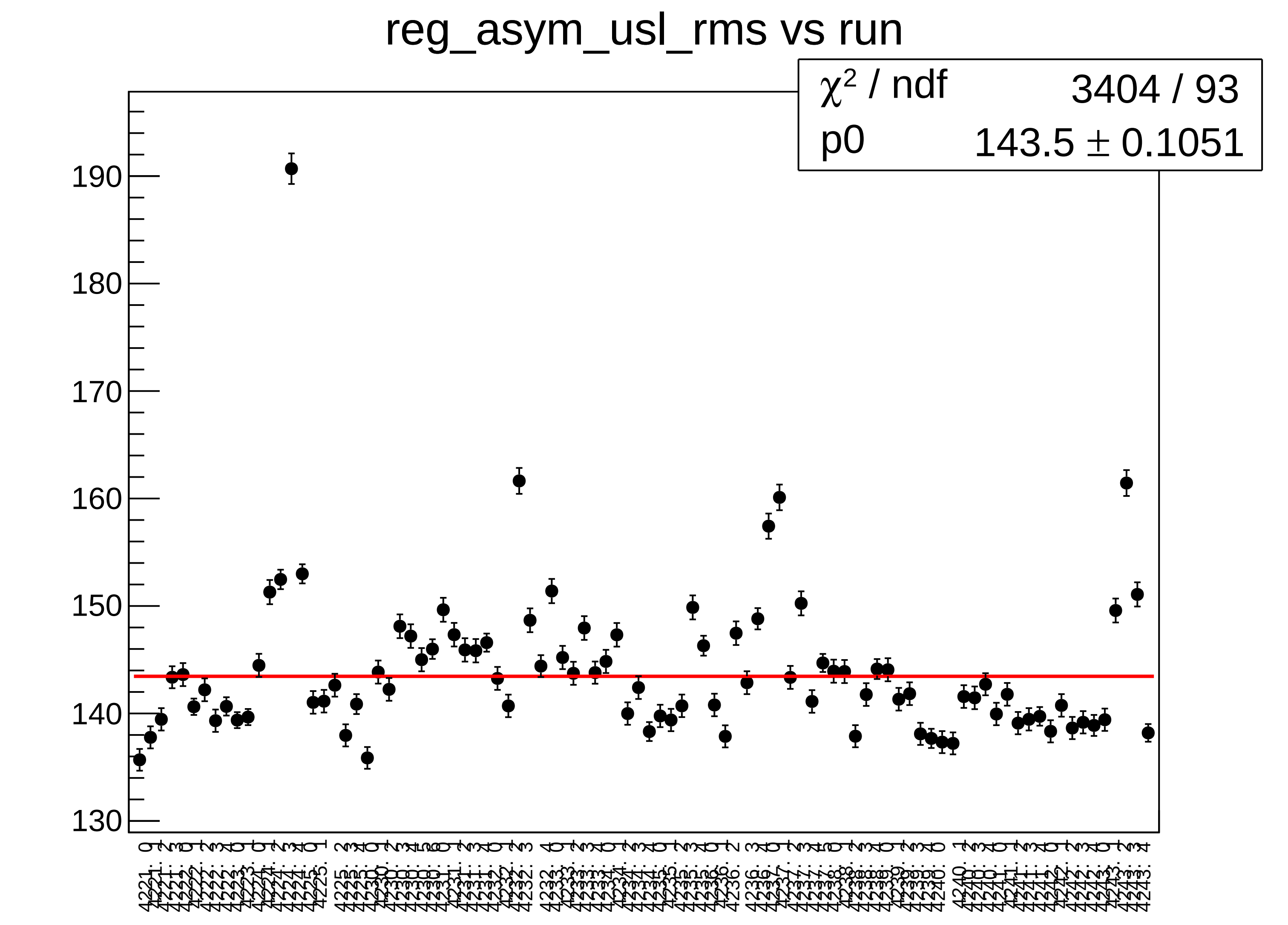


asym_ds_dd_mean vs run
χ^2 / ndf 91.63 / 93
p0 160.6 ± 381.2
pull
Entries 94
Mean 52.18
Std Dev 21.83
pull1D
Entries 94
Mean −0.0079
Std Dev 0.9873

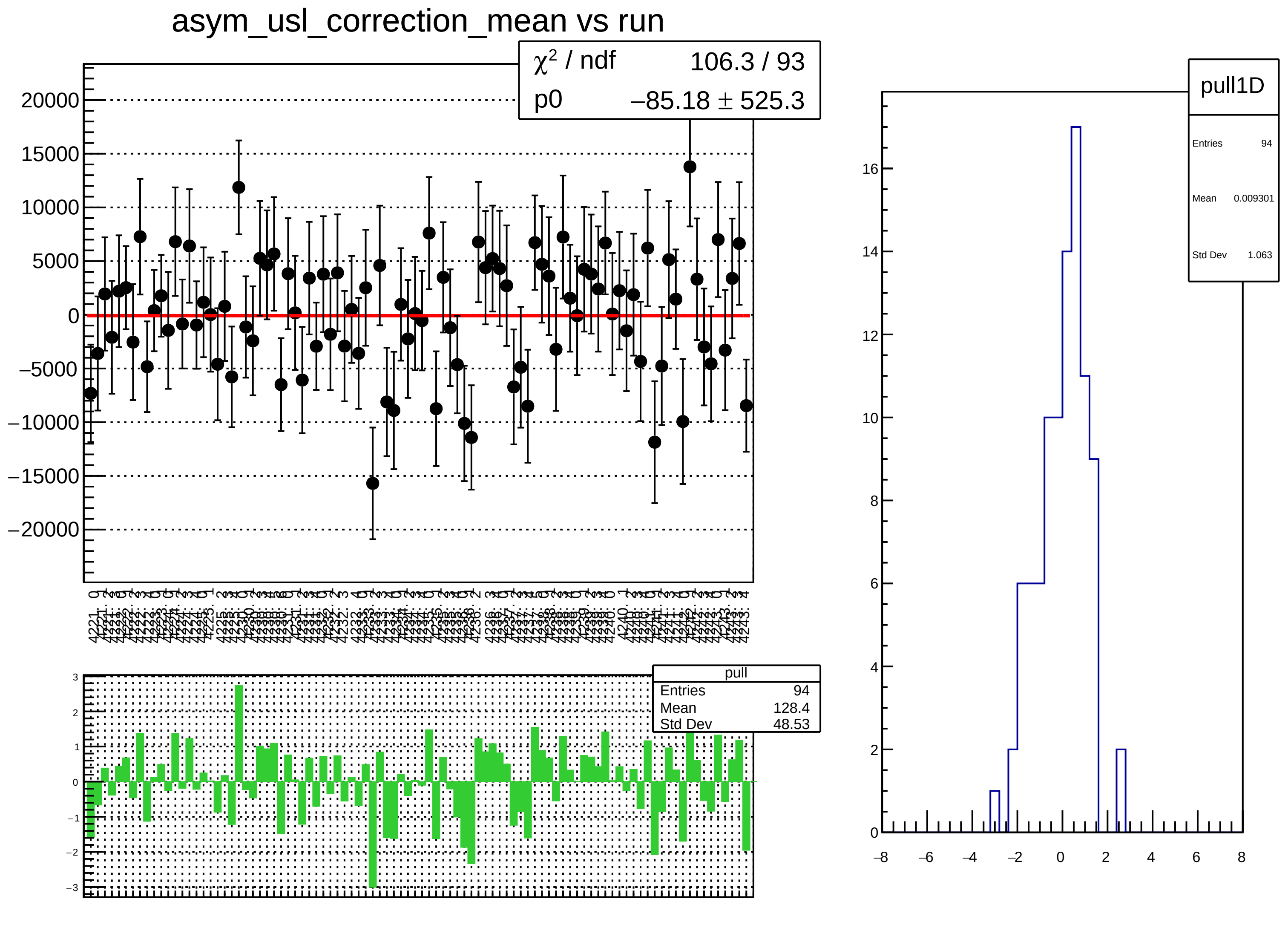

asym_ds_dd_rms vs run
χ^2 / ndf 3625 / 93
p0 367.9 ± 0.2695
420
410
400
390
380
370
360
350
340
330



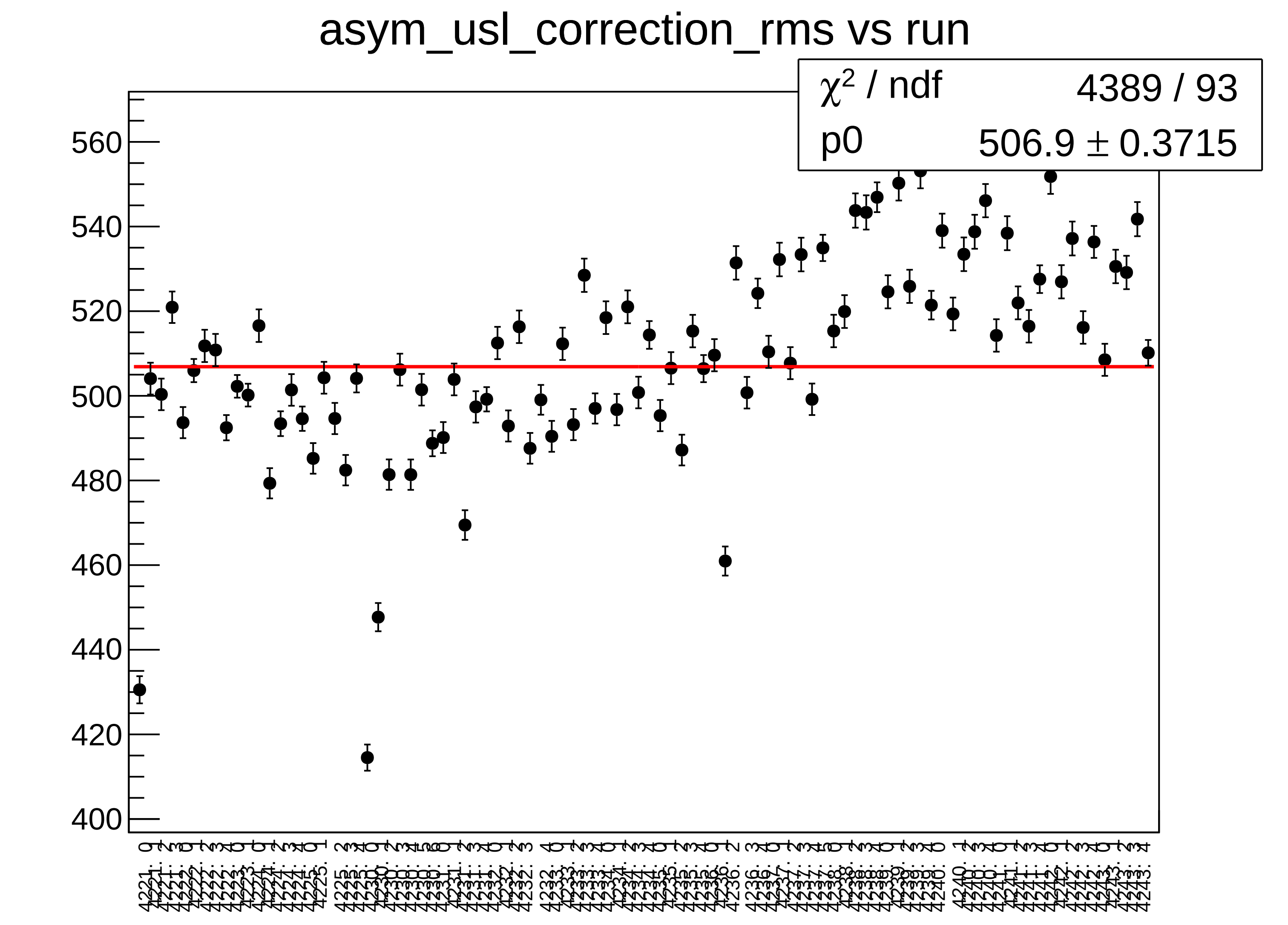
reg_asym_usl_mean vs run
χ^2 / ndf 86.05 / 93
p0 628.1 ± 148.6
pull
Entries 94
Mean −76.7
Std Dev 134
pull1D
Entries 94
Mean −0.003536
Std Dev 0.9568

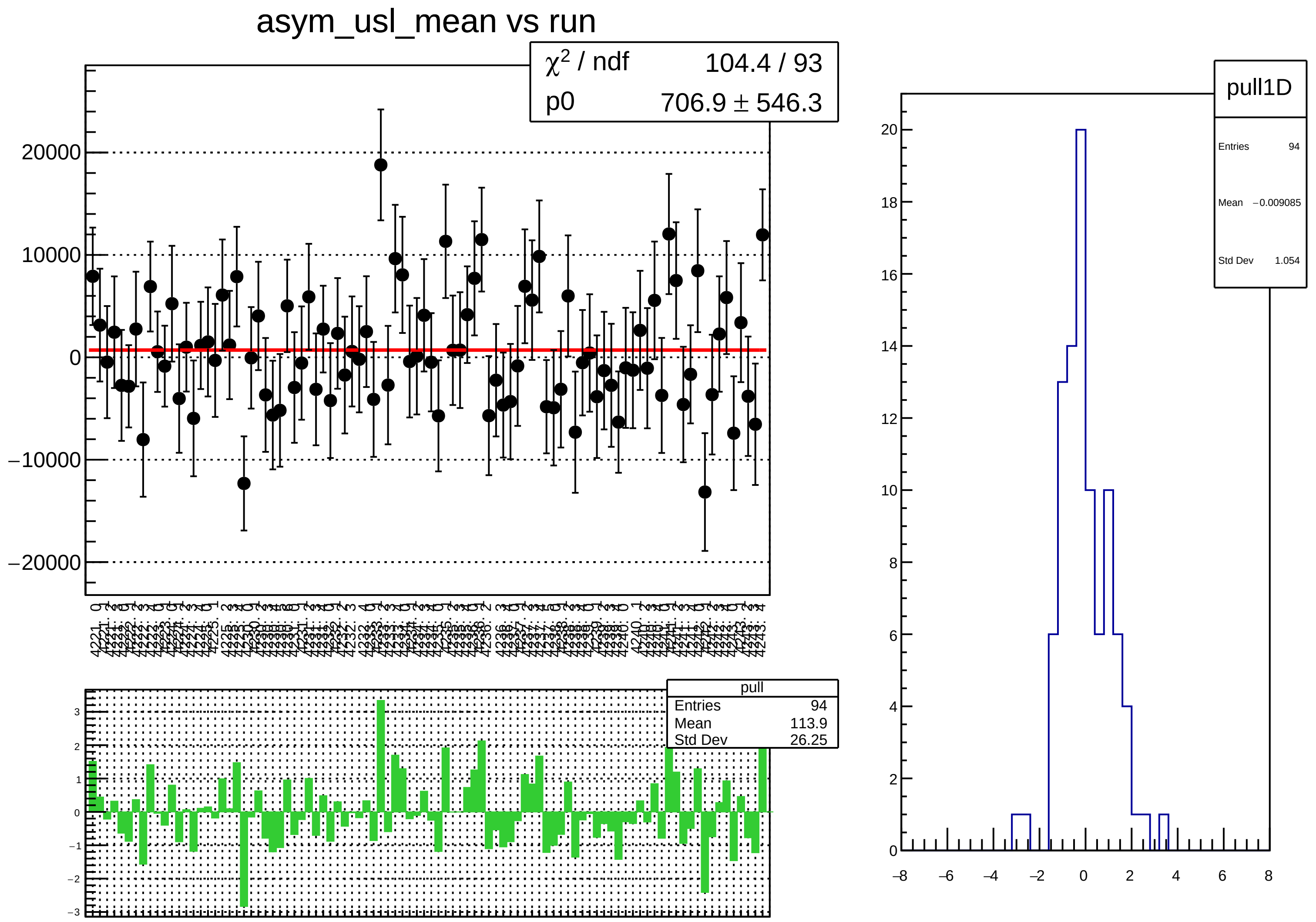


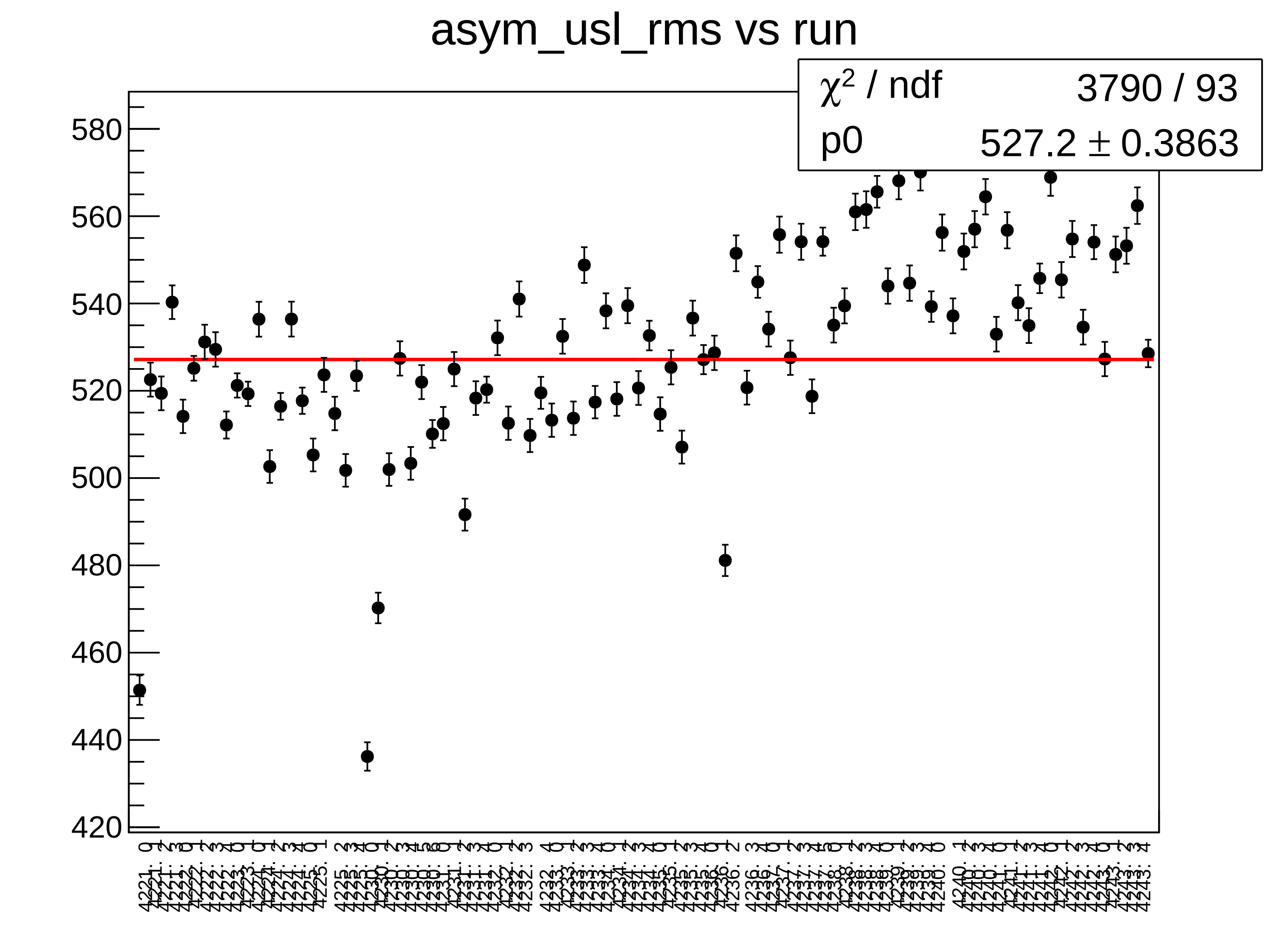
reg_asym_usl_rms vs run
χ2 / ndf 3404 / 93
p0 143.5 ± 0.1051
190
180
170
160
150
140
130



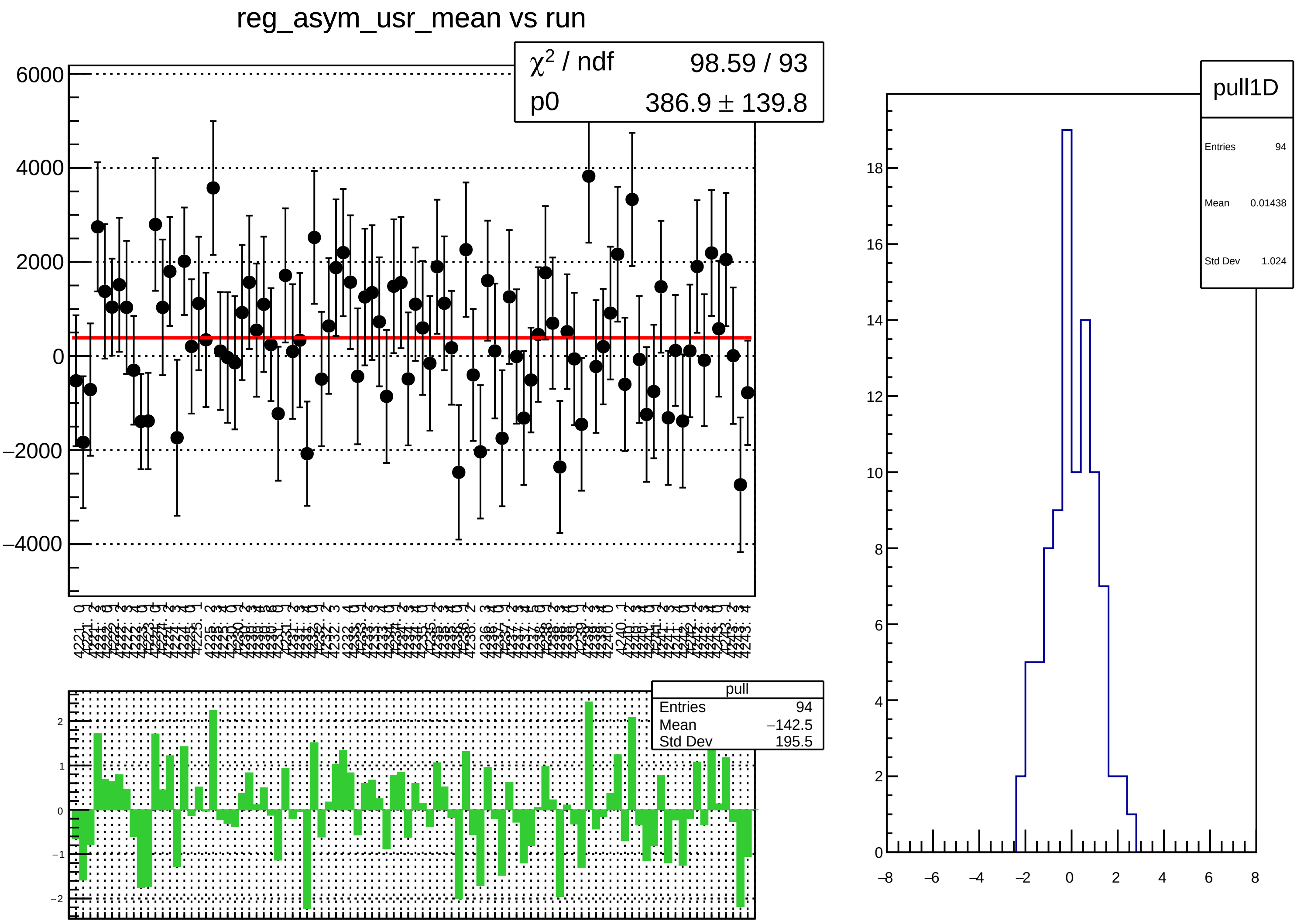
asym_usl_correction_mean vs run
χ² / ndf 106.3 / 93
p0 −85.18 ± 525.3
pull
Entries 94
Mean 128.4
Std Dev 48.53
pull1D
Entries 94
Mean 0.009301
Std Dev 1.063


asym_usl_correction_rms vs run
χ2 / ndf 4389 / 93
p0 506.9 ± 0.3715
560
540
520
500
480
460
440
420
400

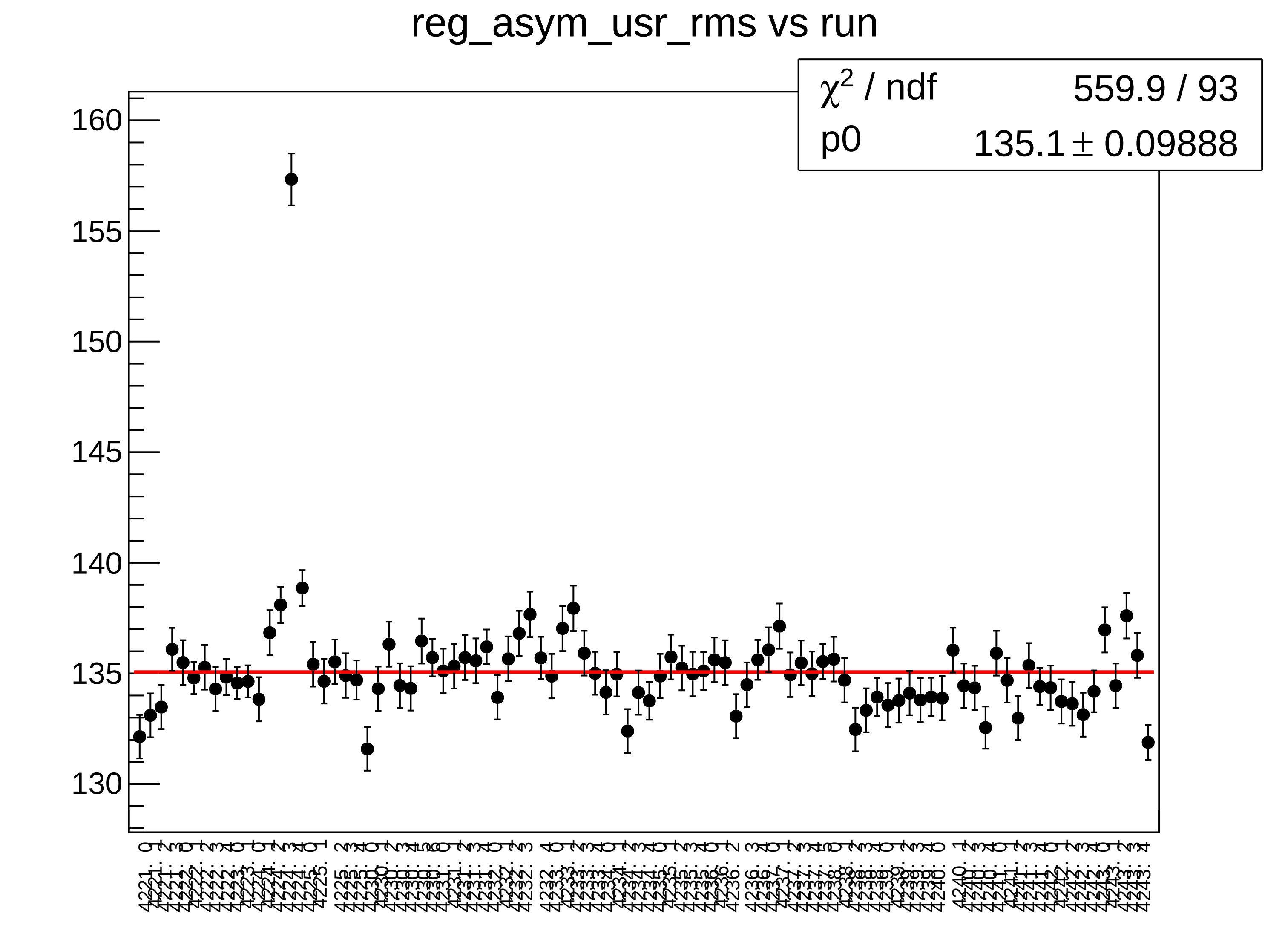

asym_usl_mean vs run
χ^2 / ndf 104.4 / 93
p0 706.9 ± 546.3
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 113.9
Std Dev 26.25
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.009085
Std Dev 1.054
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



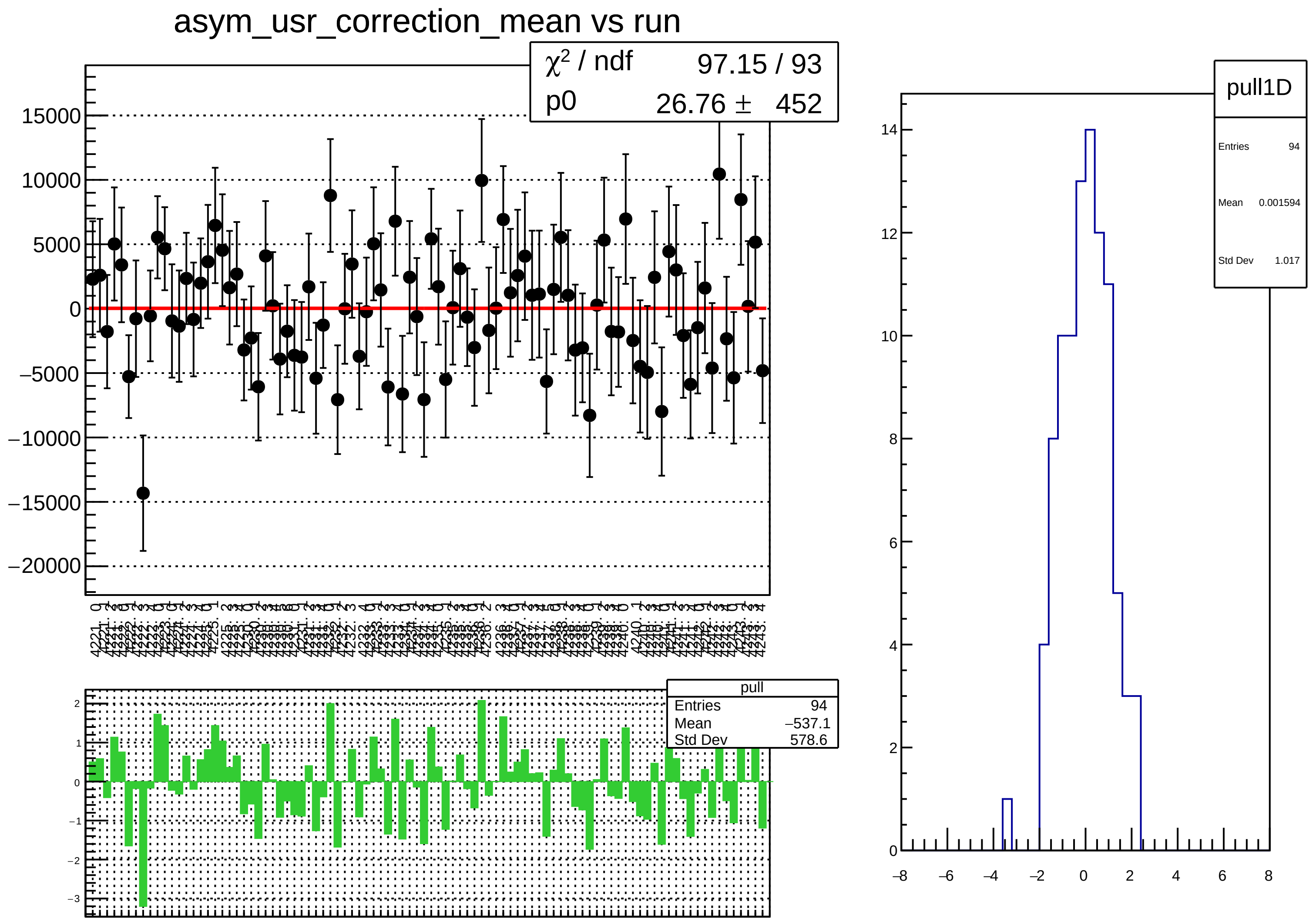
asym_usl_rms vs run
χ^2 / ndf 3790 / 93
p0 527.2 ± 0.3863
580
560
540
520
500
480
460
440
420



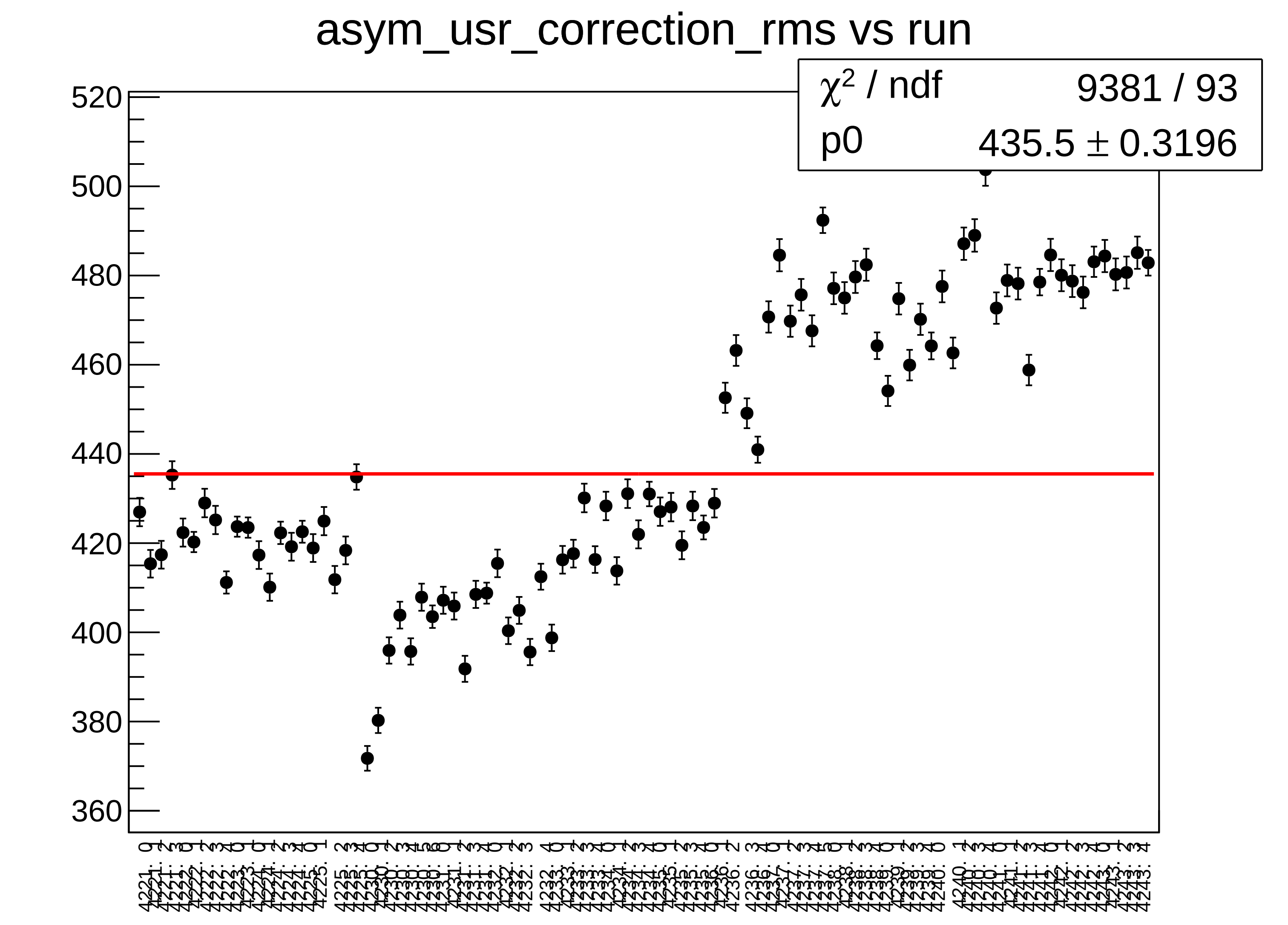
reg_asym_usr_mean vs run
χ^2 / ndf 98.59 / 93
p0 386.9 ± 139.8
pull
Entries 94
Mean −142.5
Std Dev 195.5
pull1D
Entries 94
Mean 0.01438
Std Dev 1.024



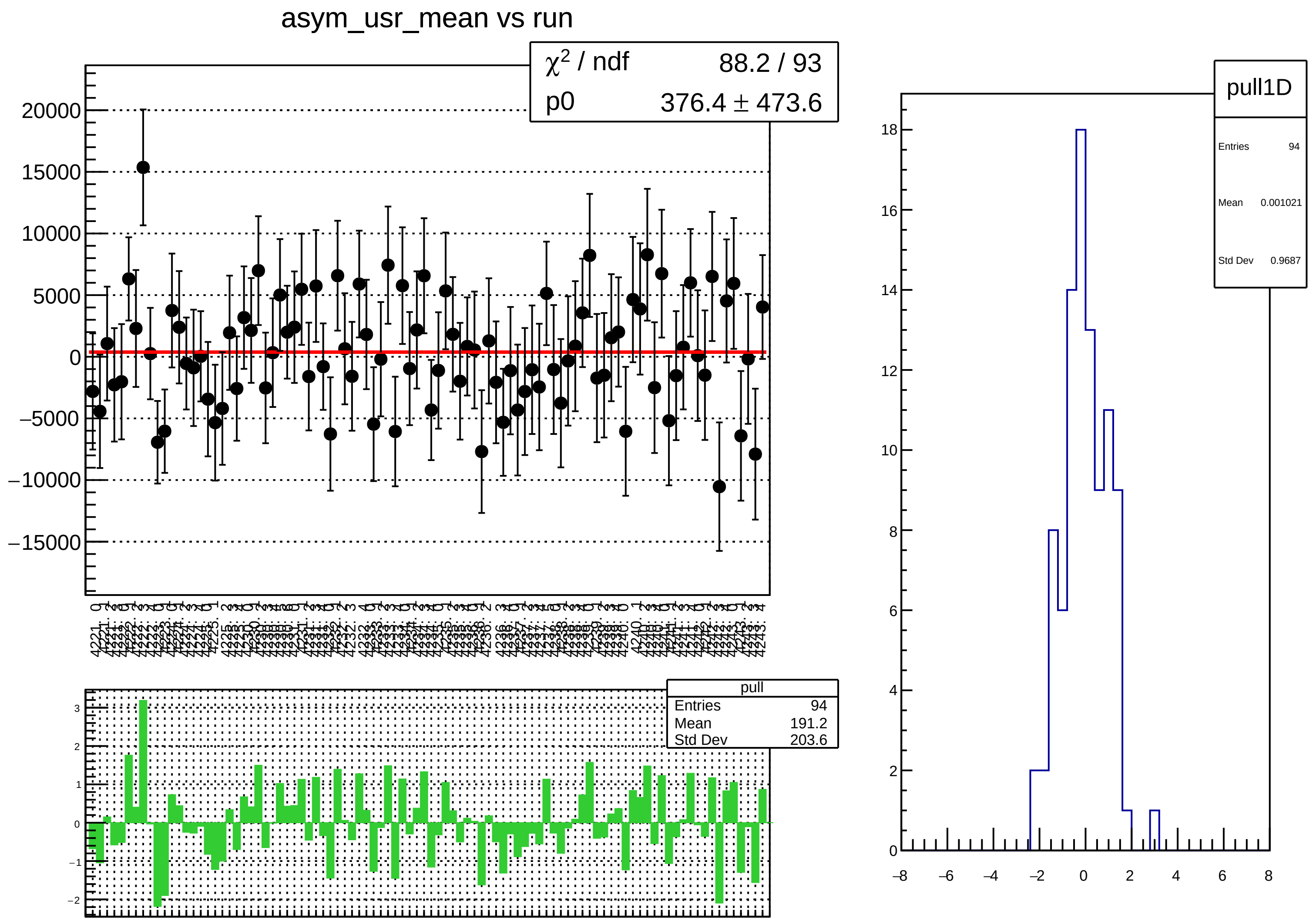
reg_asym_usr_rms vs run
χ2 / ndf 559.9 / 93
p0 135.1 ± 0.09888
160
155
150
145
140
135
130



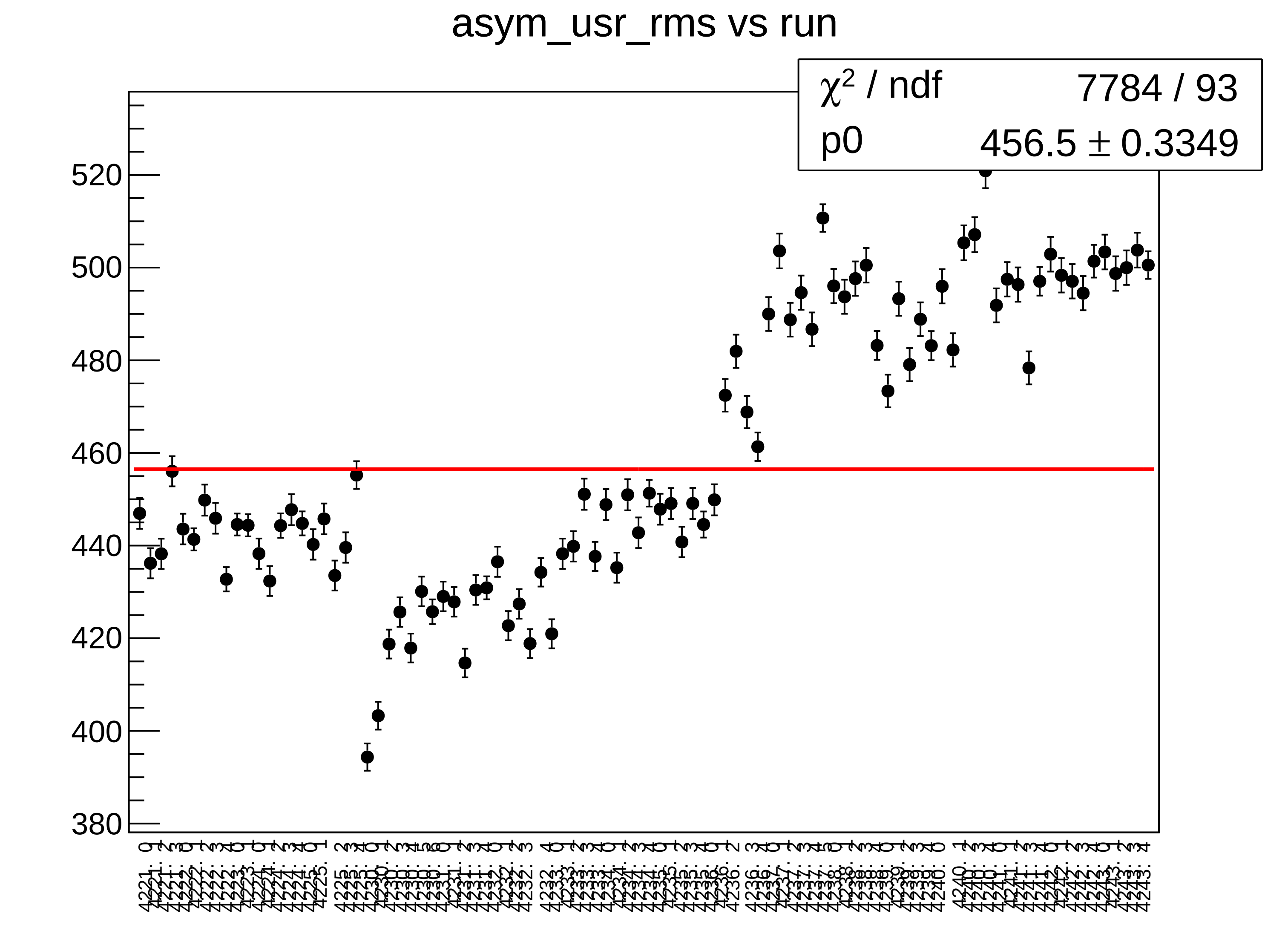
asym_usr_correction_mean vs run
χ^2 / ndf 97.15 / 93
p0 26.76 ± 452
pull
Entries 94
Mean −537.1
Std Dev 578.6
pull1D
Entries 94
Mean 0.001594
Std Dev 1.017

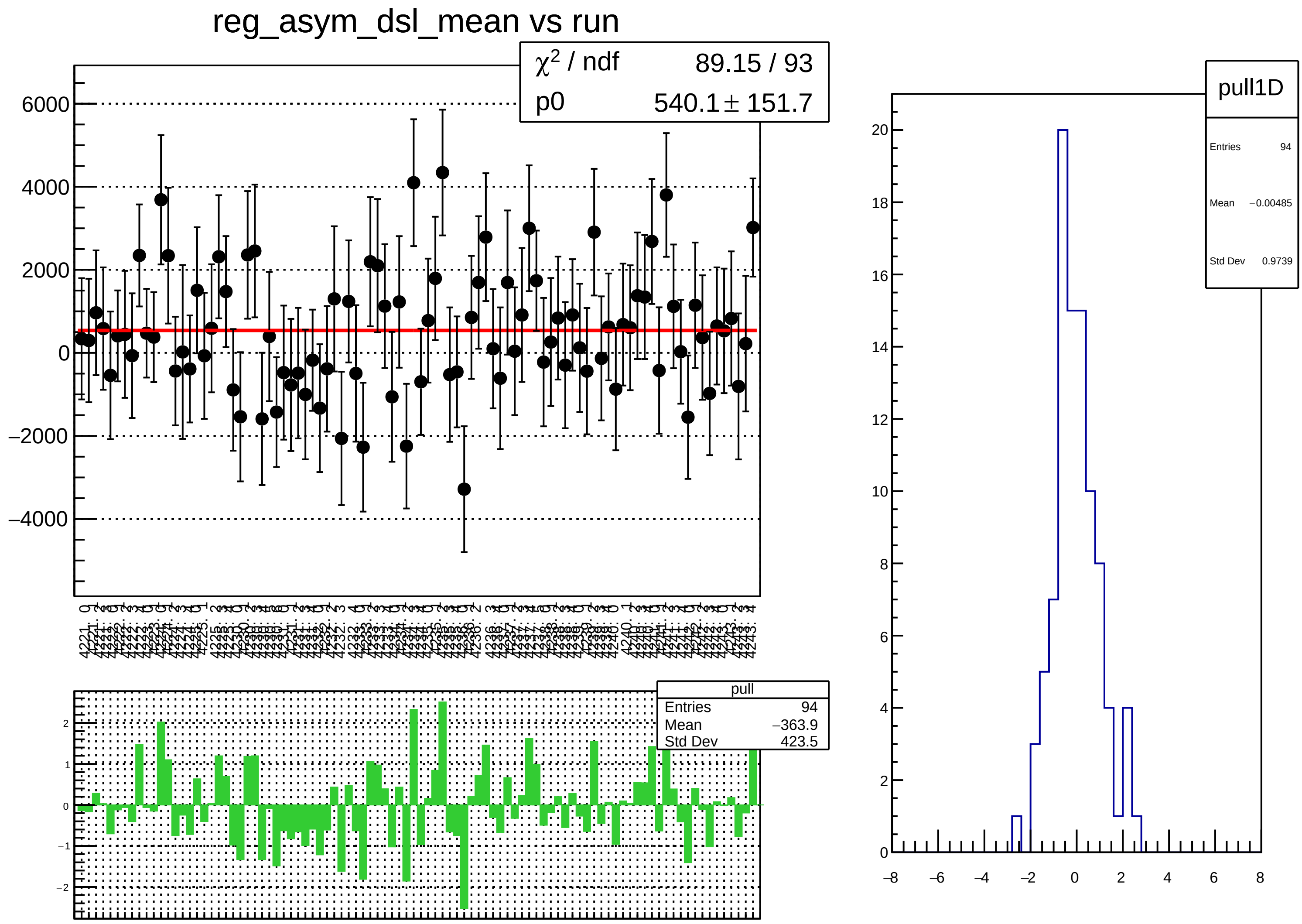


asym_usr_correction_rms vs run
χ2 / ndf 9381 / 93
p0 435.5 ± 0.3196
520
500
480
460
440
420
400
380
360

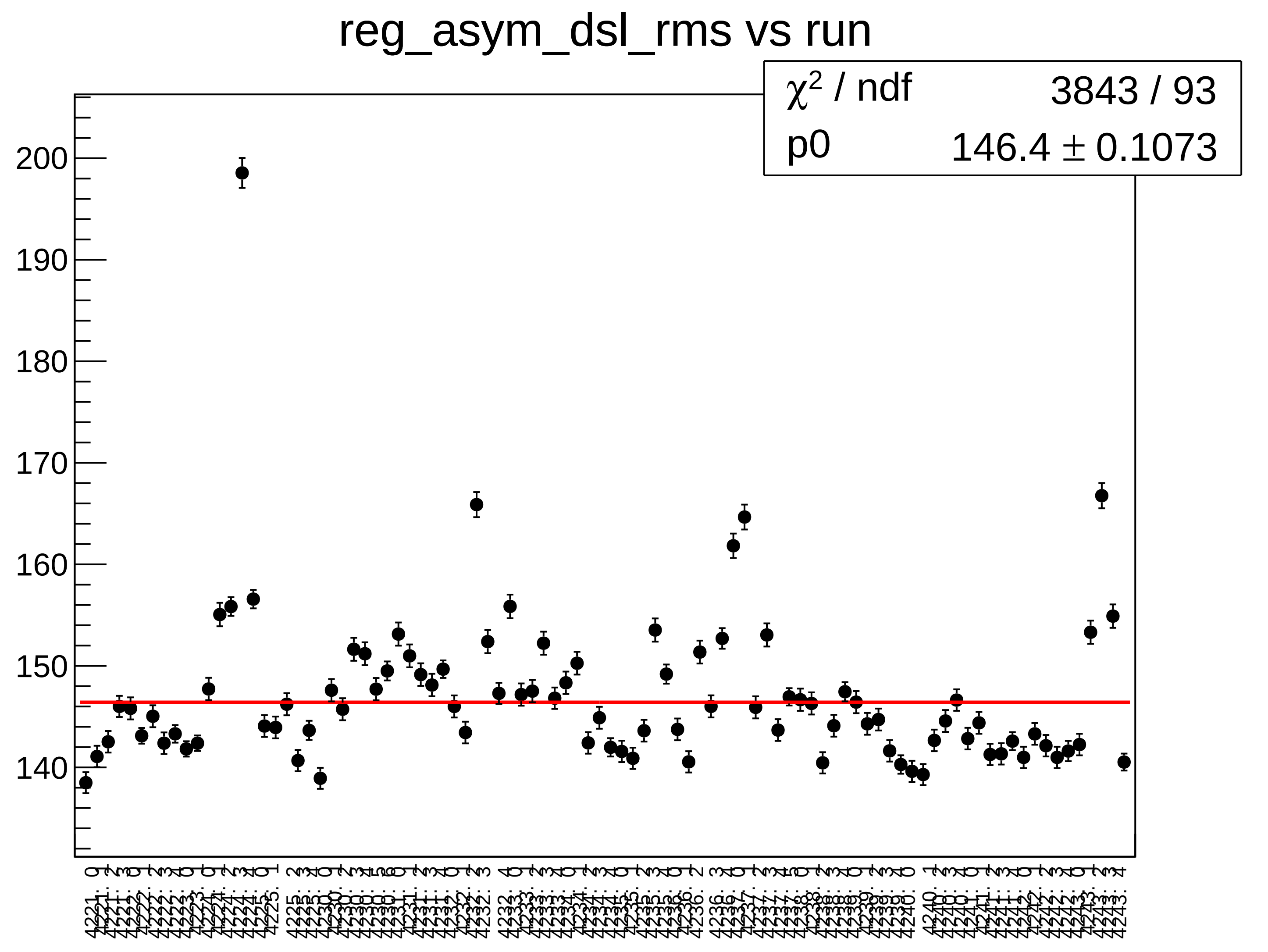


asym_usr_mean vs run
χ^2 / ndf 88.2 / 93
p0 376.4 ± 473.6
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 191.2
Std Dev 203.6
pull1D
Entries 94
Mean 0.001021
Std Dev 0.9687

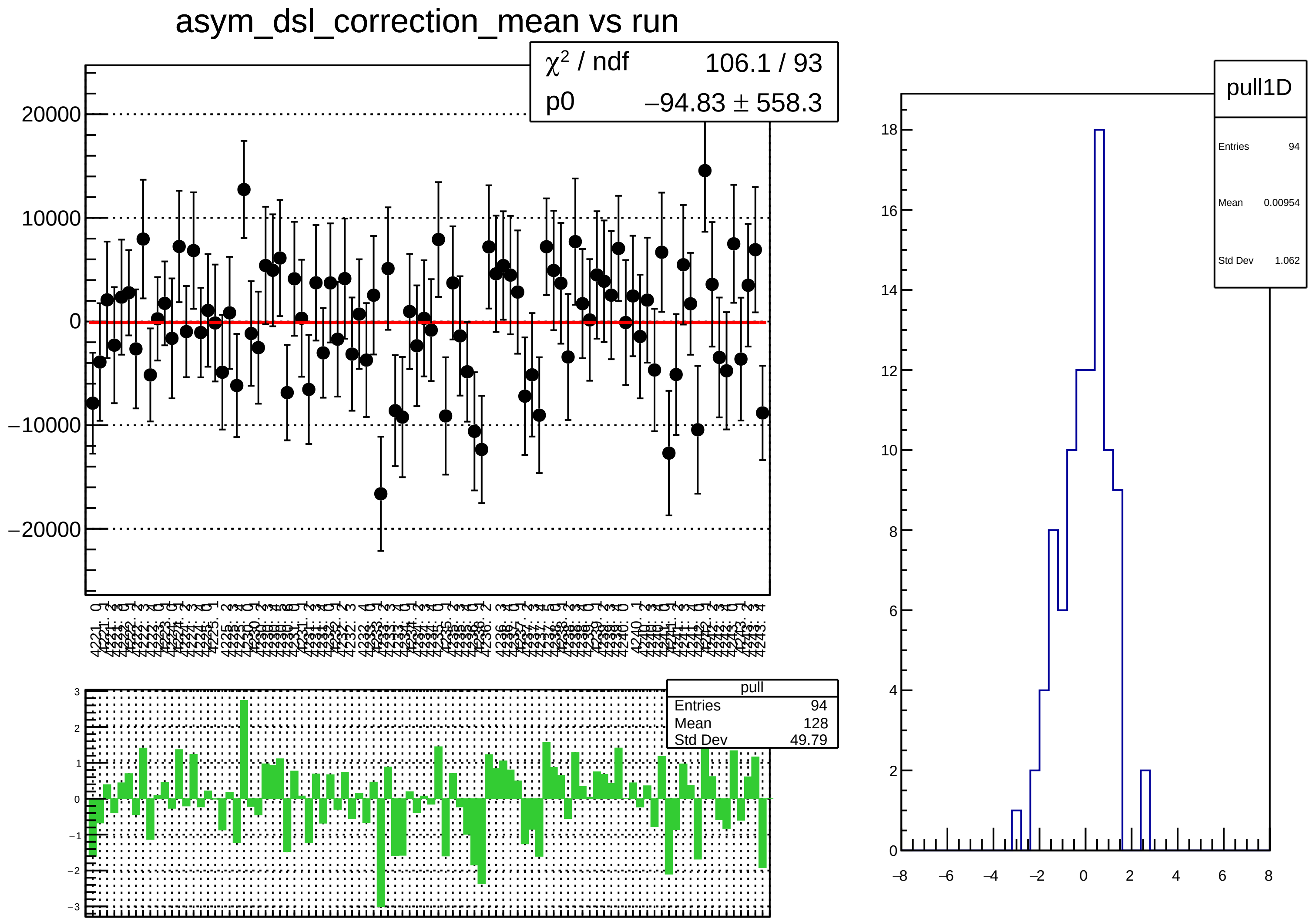

asym_usr_rms vs run
χ2 / ndf 7784 / 93
p0 456.5 ± 0.3349
520
500
480
460
440
420
400
380



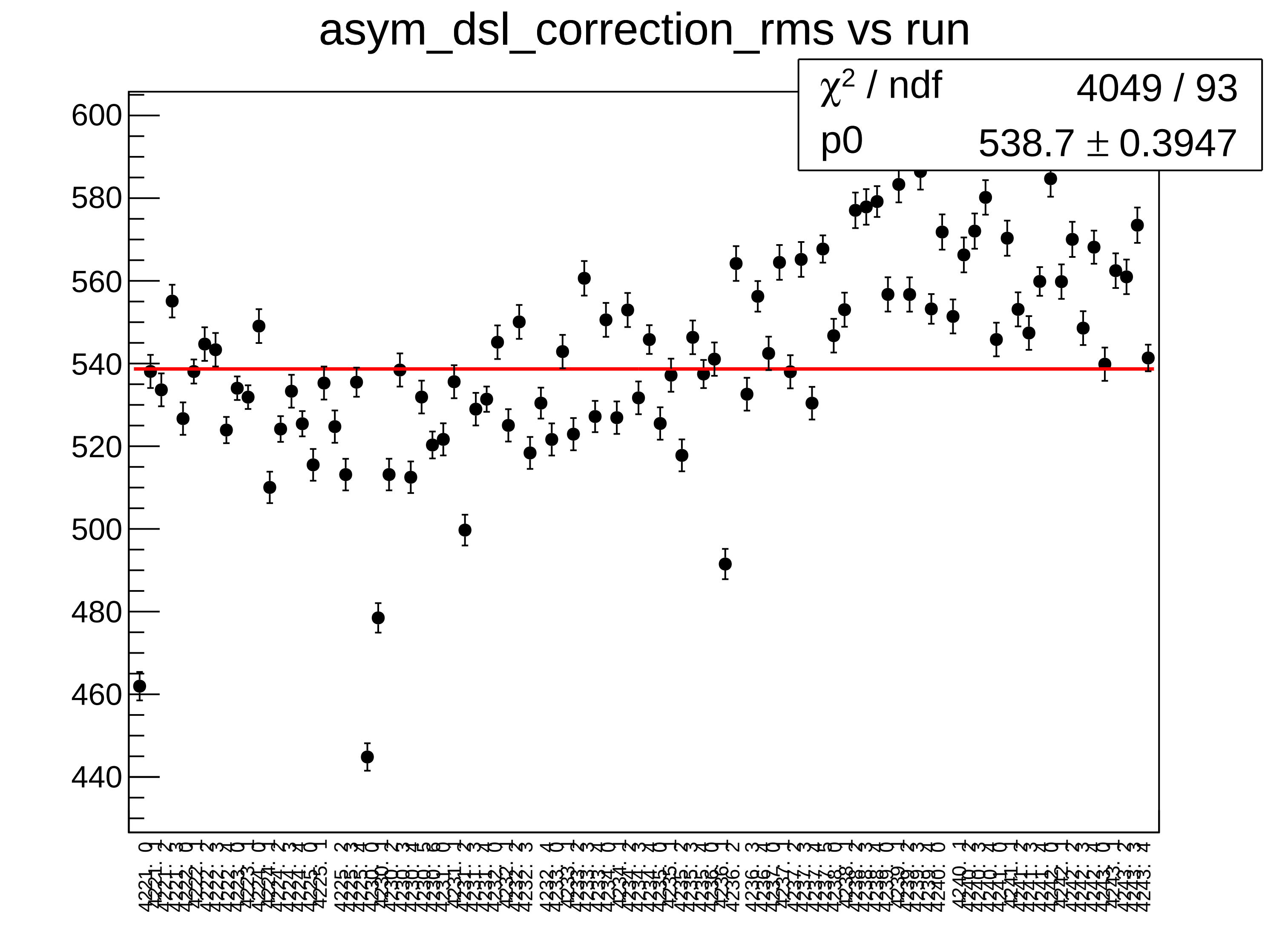
reg_asym_dsl_mean vs run
χ2 / ndf 89.15 / 93
p0 540.1 ± 151.7
pull
Entries 94
Mean −363.9
Std Dev 423.5
pull1D
Entries 94
Mean −0.00485
Std Dev 0.9739

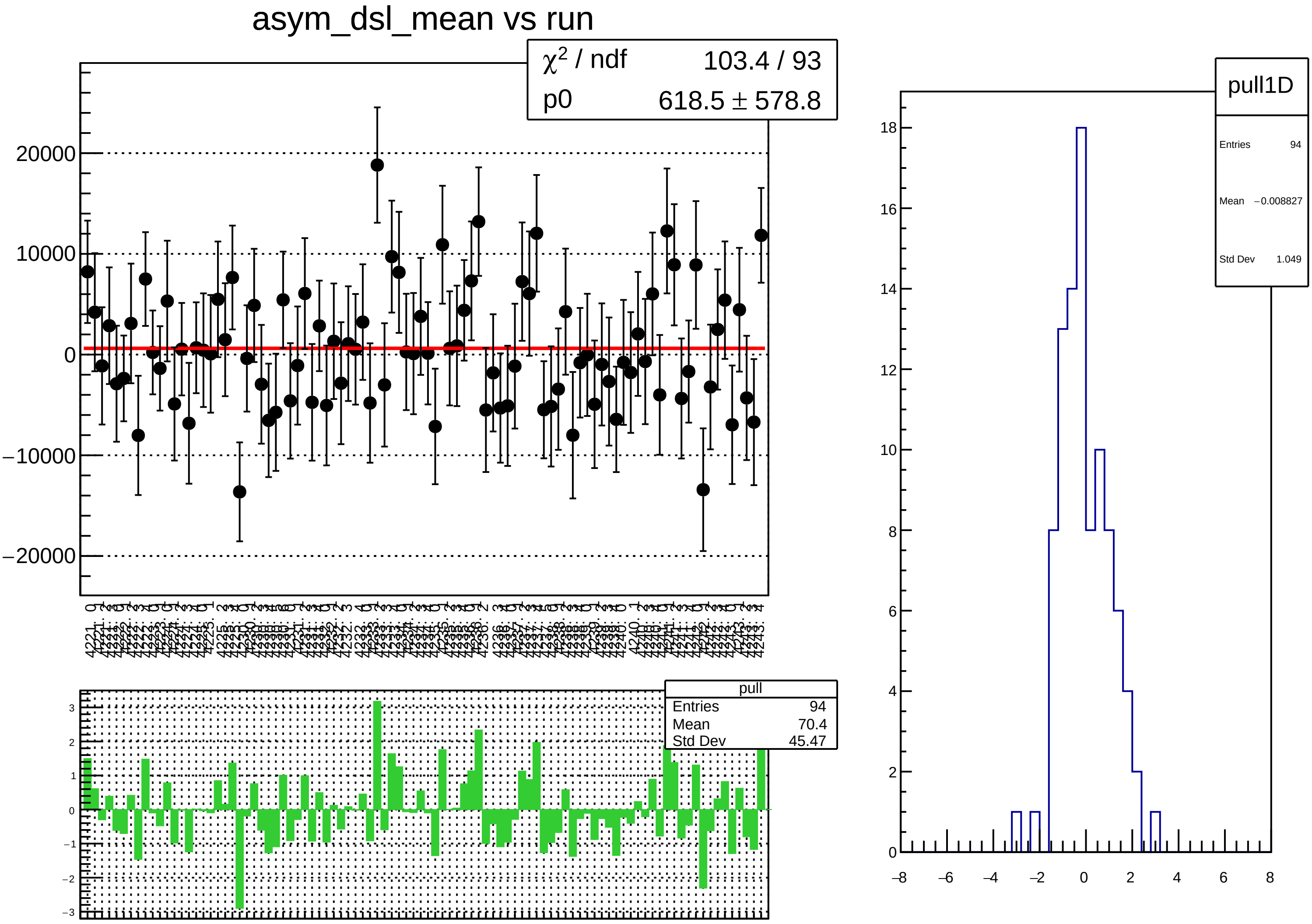


reg_asym_dsl_rms vs run
χ^2 / ndf 3843 / 93
p0 146.4 ± 0.1073
200
190
180
170
160
150
140

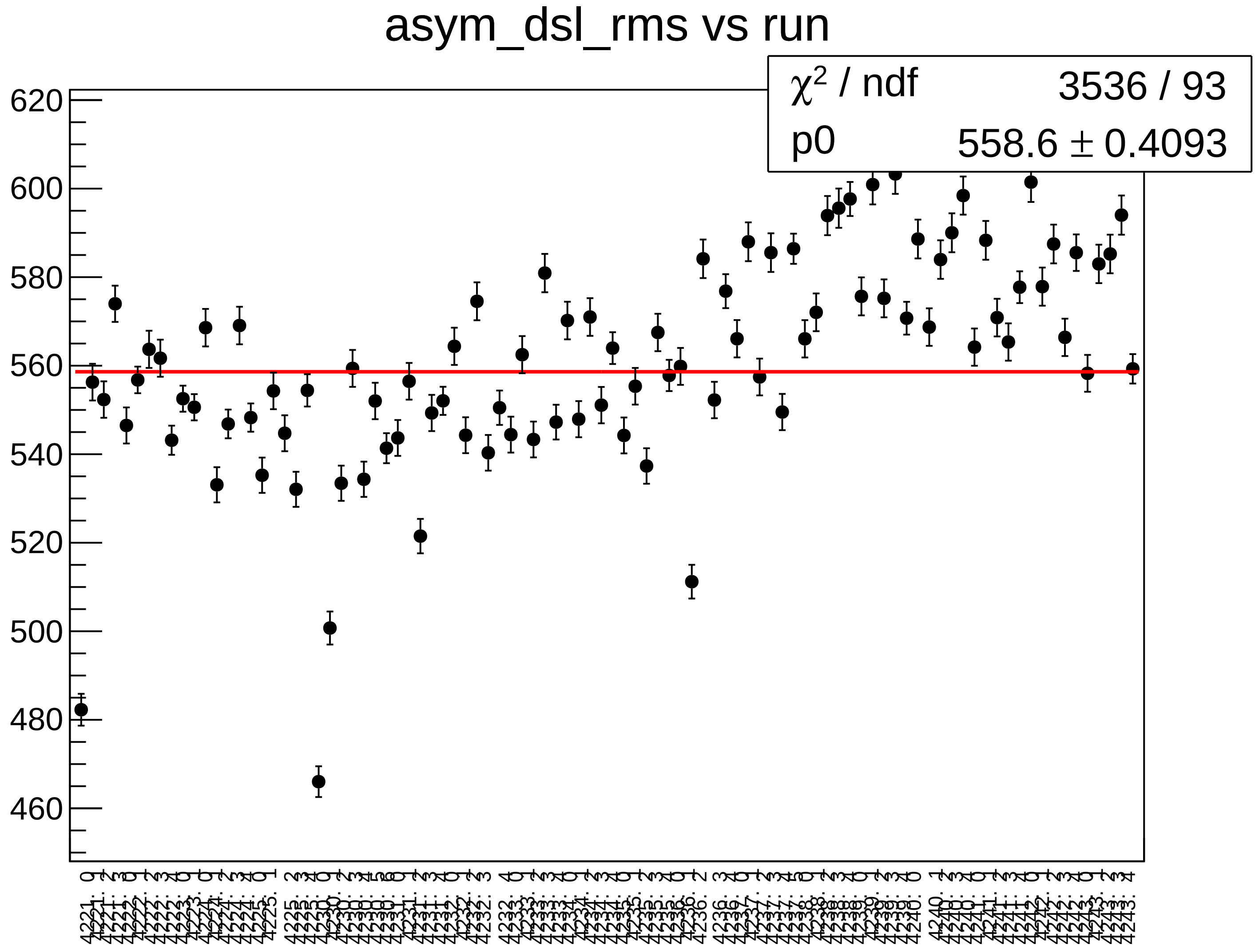


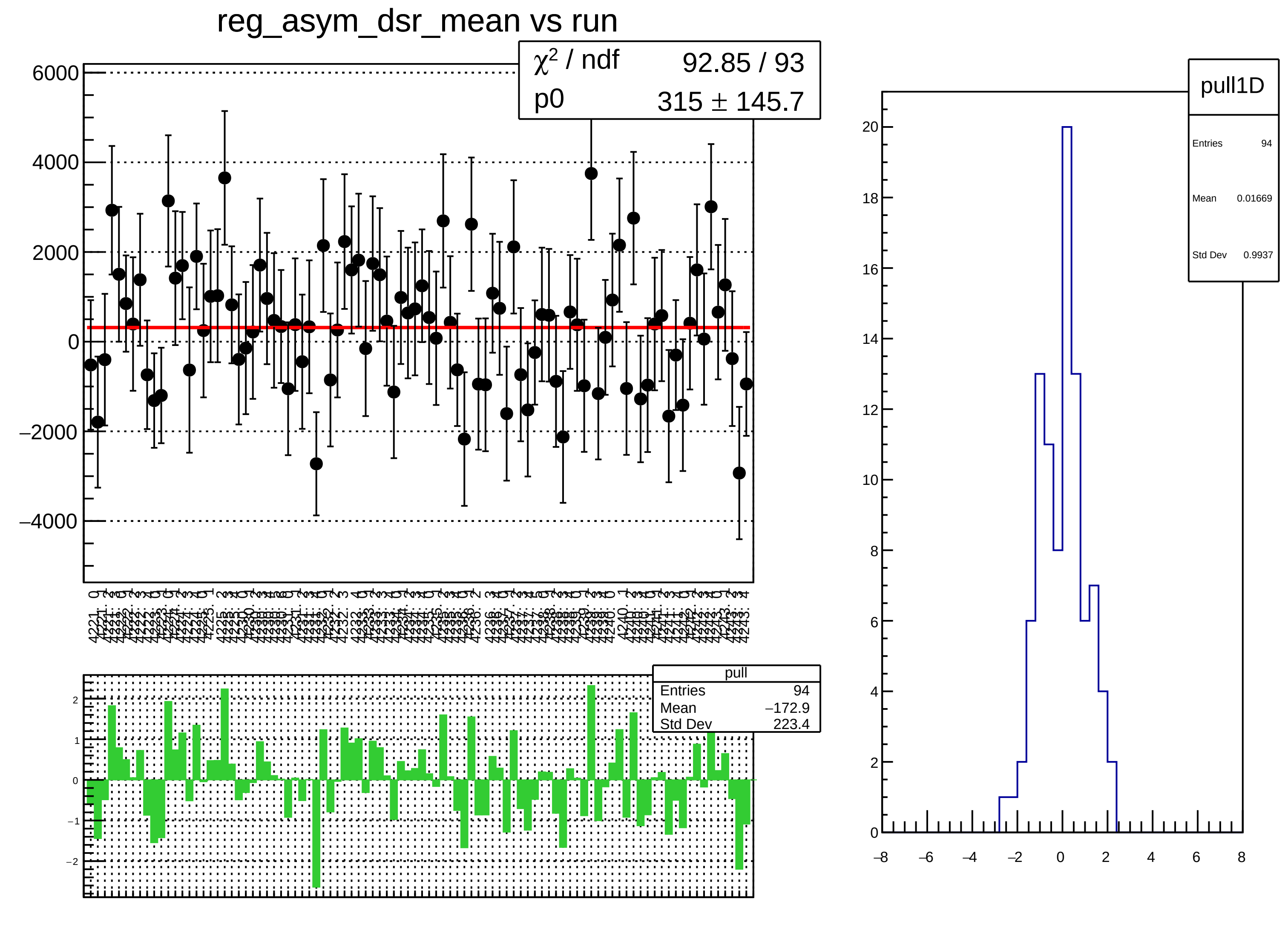
asym_dsl_correction_mean vs run
χ2 / ndf 106.1 / 93
p0 −94.83 ± 558.3
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 128
Std Dev 49.79
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.00954
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsl_correction_rms vs run
χ^2 / ndf 4049 / 93
p0 538.7 ± 0.3947
600
580
560
540
520
500
480
460
440

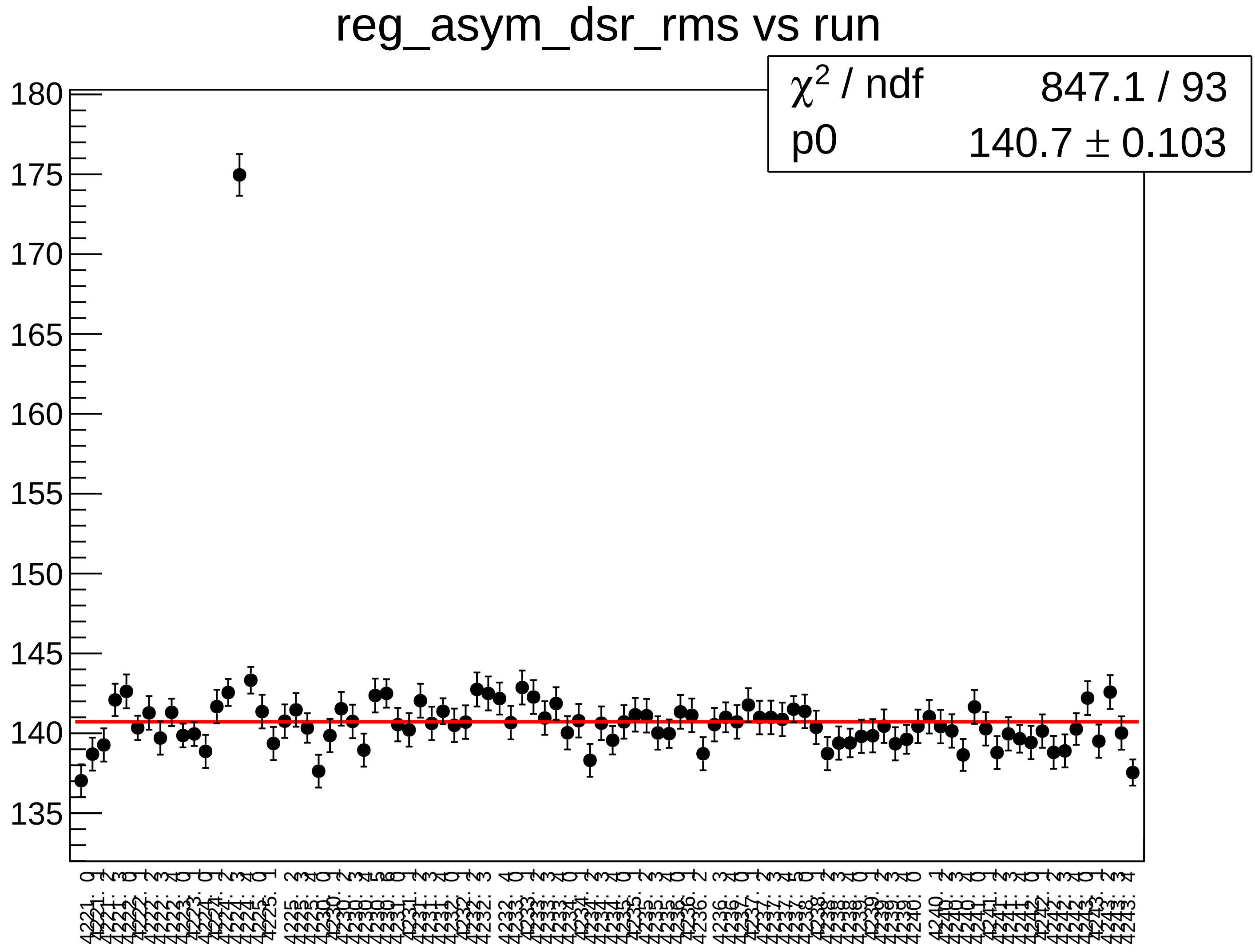


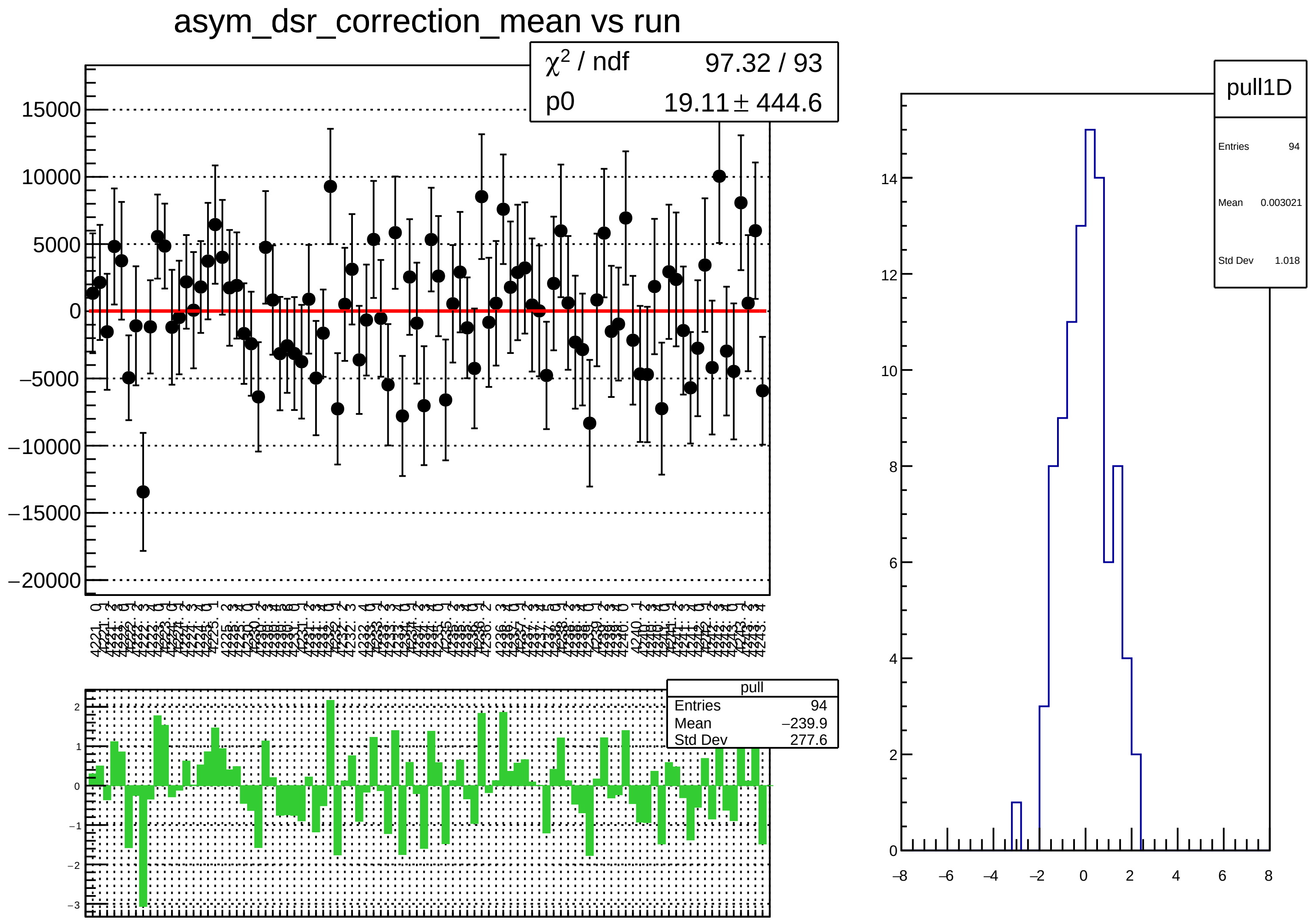
asym_dsl_mean vs run
χ^2 / ndf 103.4 / 93
p0 618.5 ± 578.8
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 70.4
Std Dev 45.47
pull1D
Entries 94
Mean −0.008827
Std Dev 1.049


asym_dsl_rms vs run
χ^2 / ndf 3536 / 93
p0 558.6 ± 0.4093
620
600
580
560
540
520
500
480
460

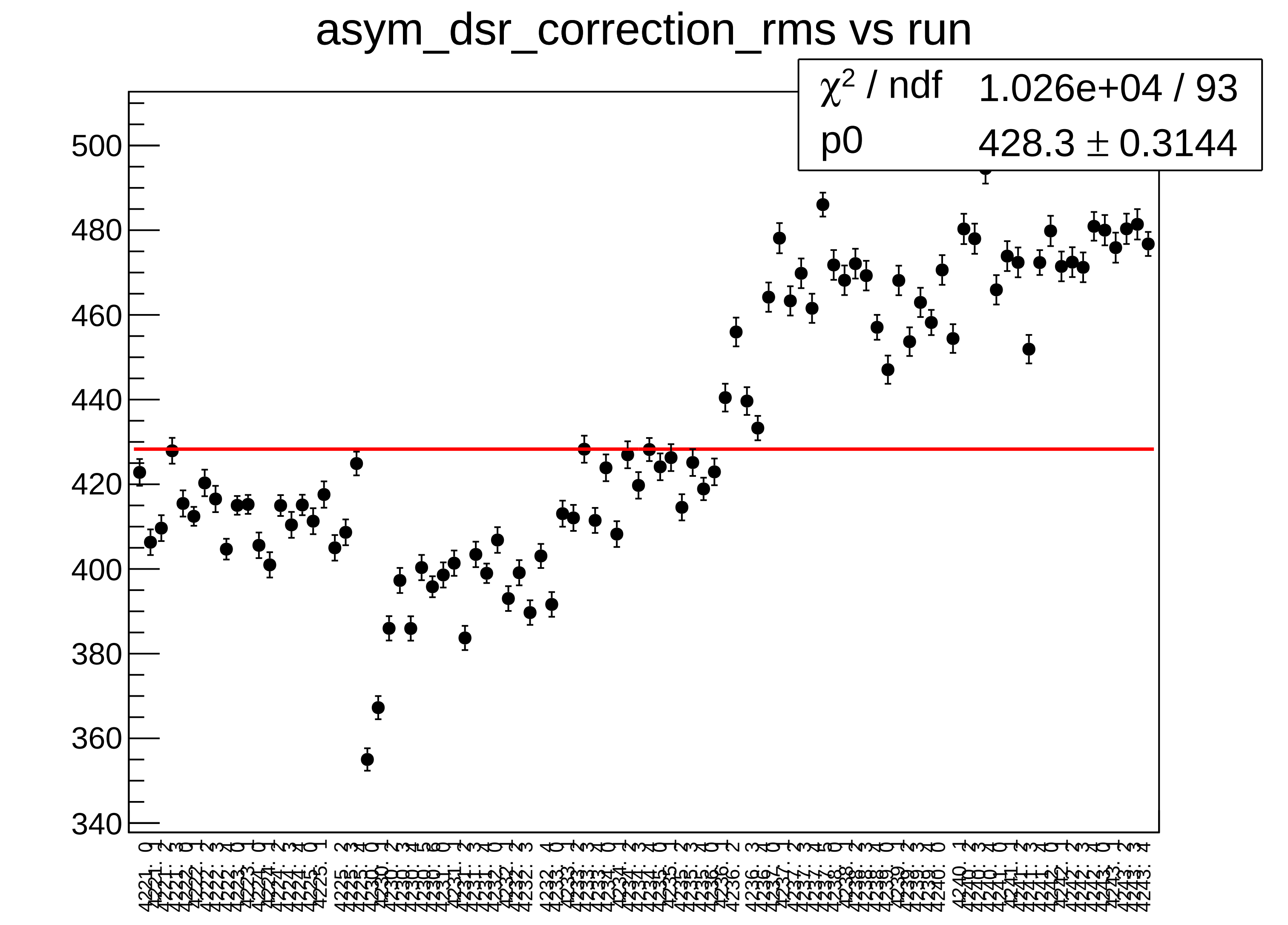


reg_asym_dsr_mean vs run
χ^2 / ndf 92.85 / 93
p0 315 ± 145.7
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −172.9
Std Dev 223.4
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01669
Std Dev 0.9937
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

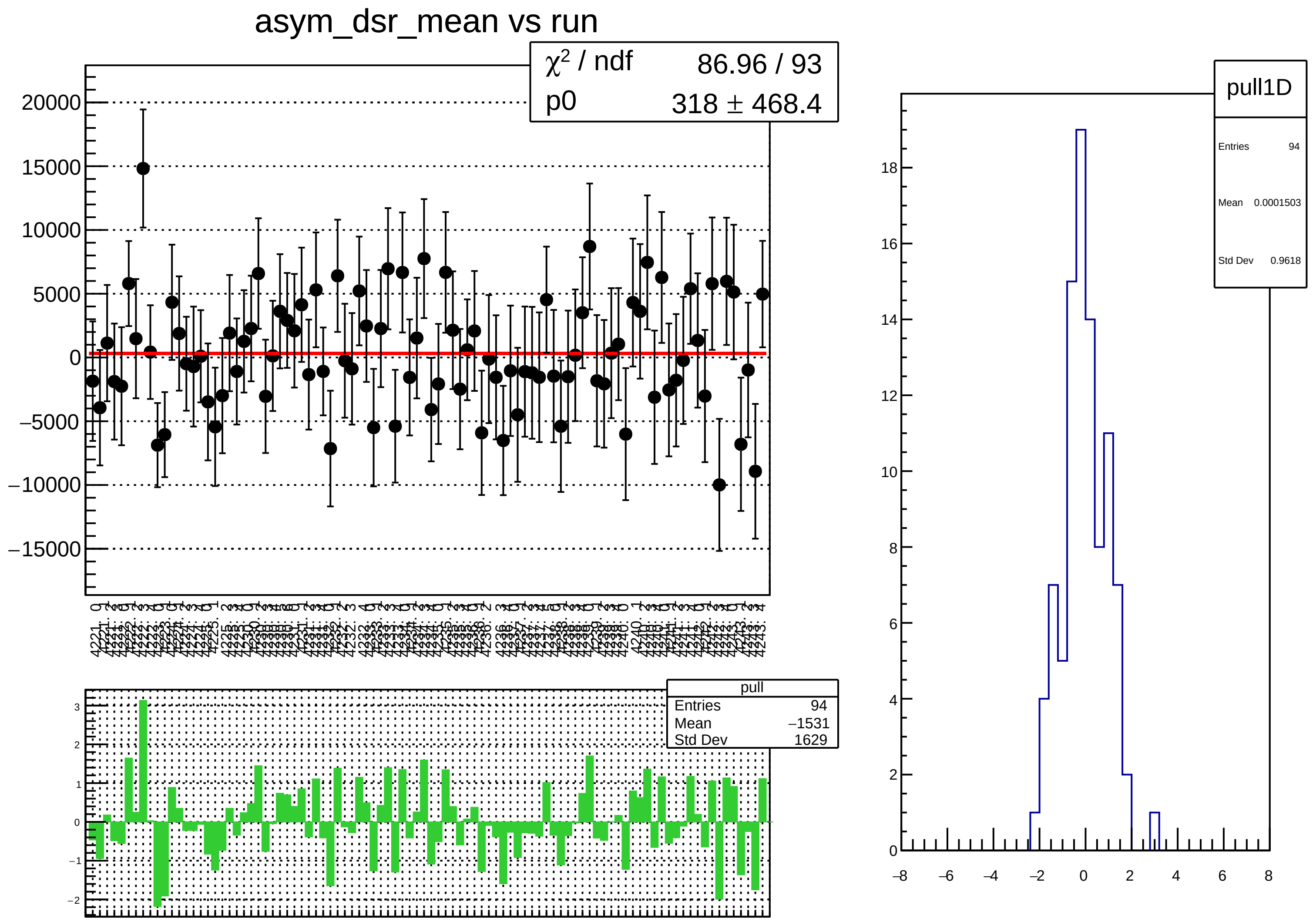

reg_asym_dsr_rms vs run
χ^2 / ndf 847.1 / 93
p0 140.7 ± 0.103
180
175
170
165
160
155
150
145
140
135



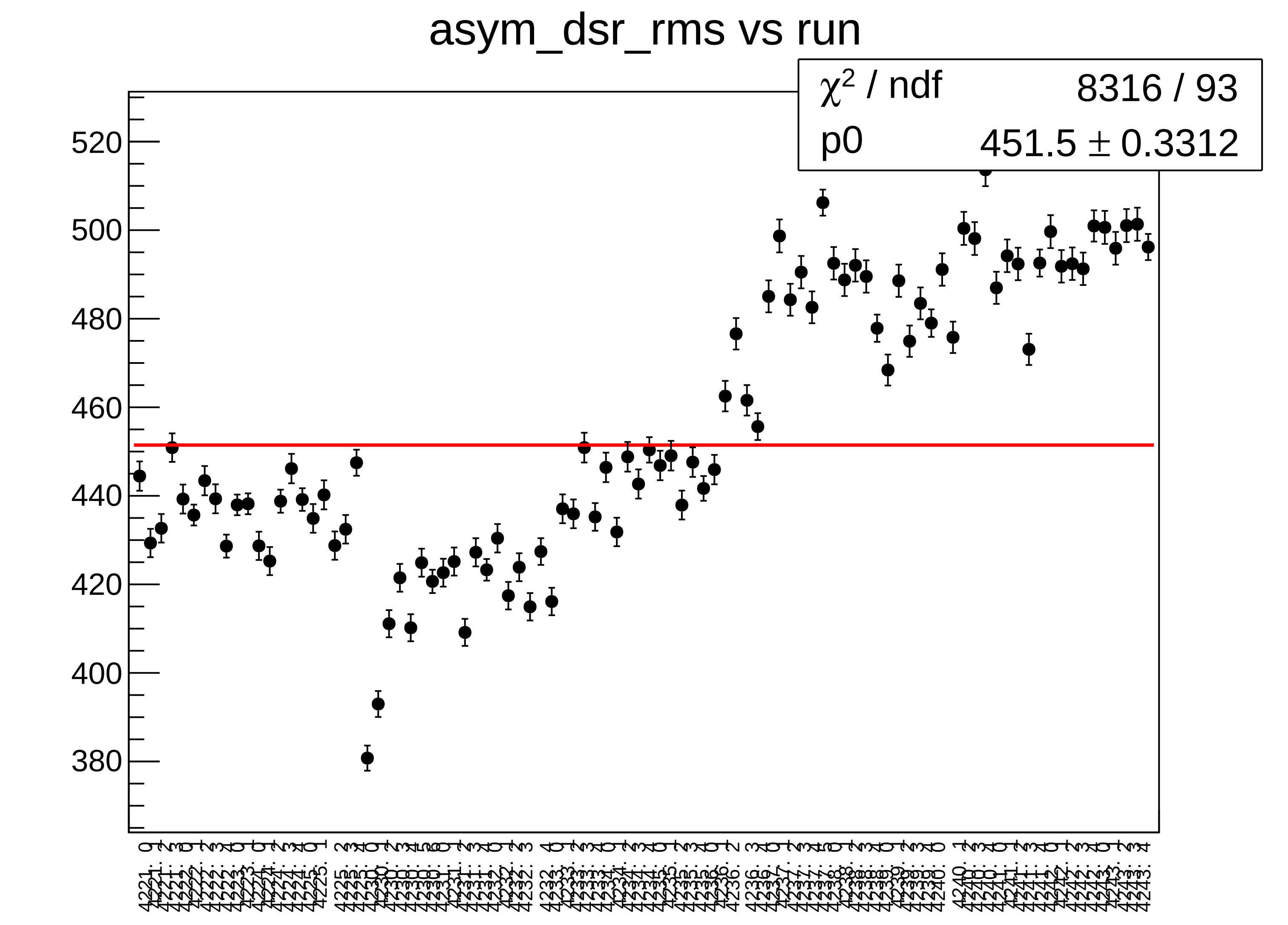
asym_dsr_correction_mean vs run
χ² / ndf 97.32 / 93
p0 19.11 ± 444.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −239.9
Std Dev 277.6
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.003021
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



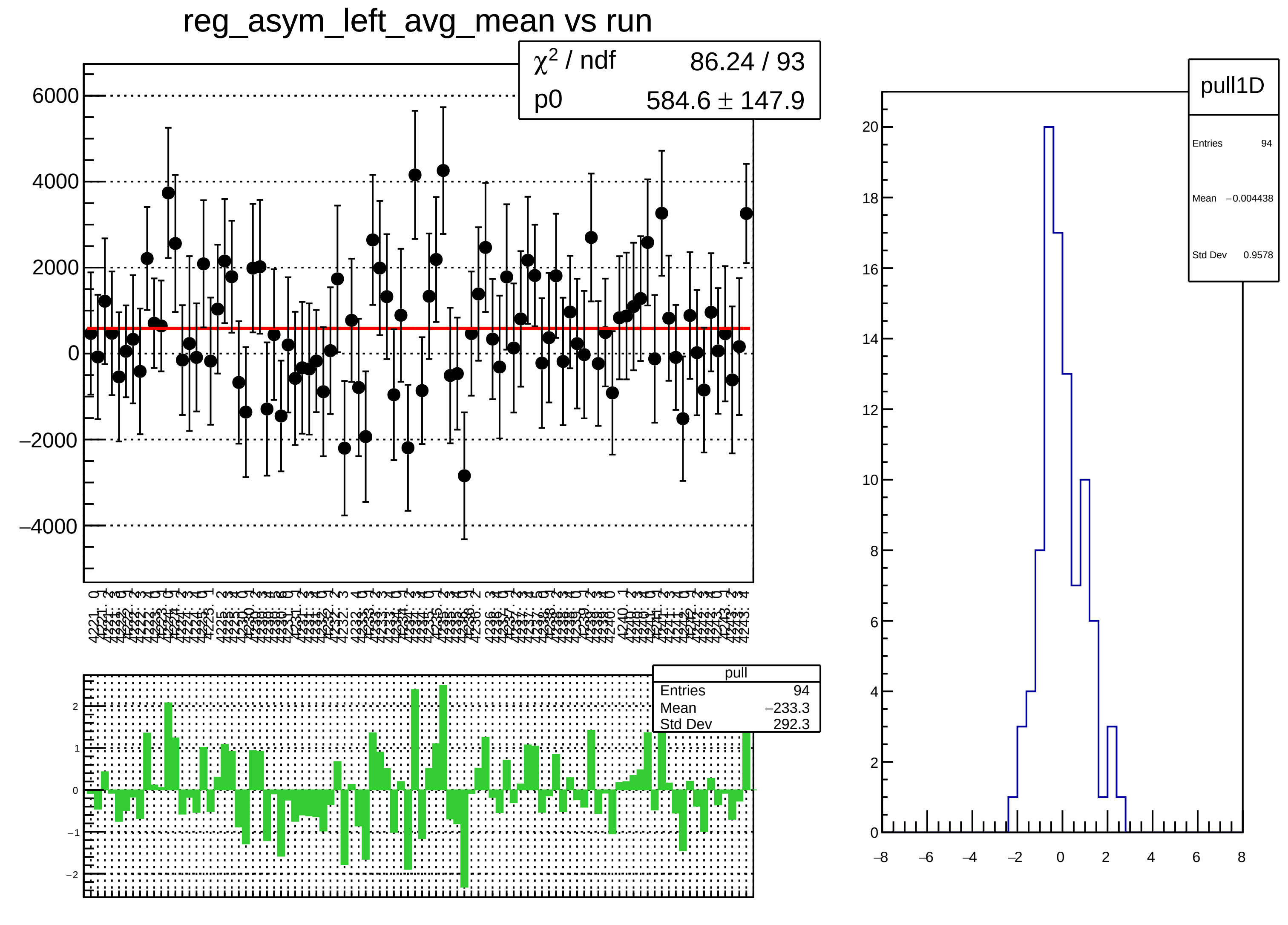
asym_dsr_correction_rms vs run
χ2 / ndf 1.026e+04 / 93
p0 428.3 ± 0.3144
500
480
460
440
420
400
380
360
340



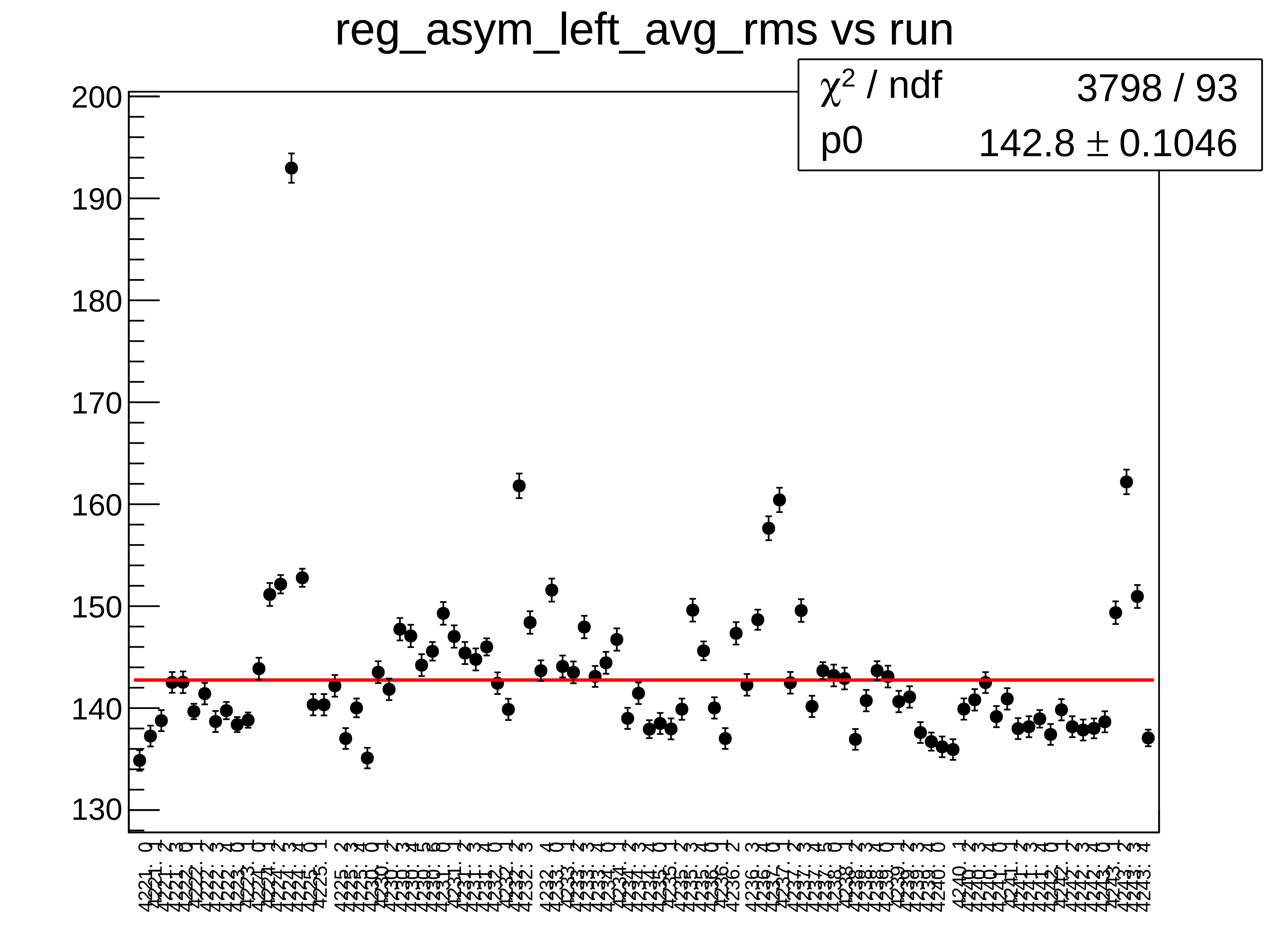
asym_dsr_mean vs run
χ^2 / ndf 86.96 / 93
p0 318 ± 468.4
pull
Entries 94
Mean −1531
Std Dev 1629
pull1D
Entries 94
Mean 0.0001503
Std Dev 0.9618



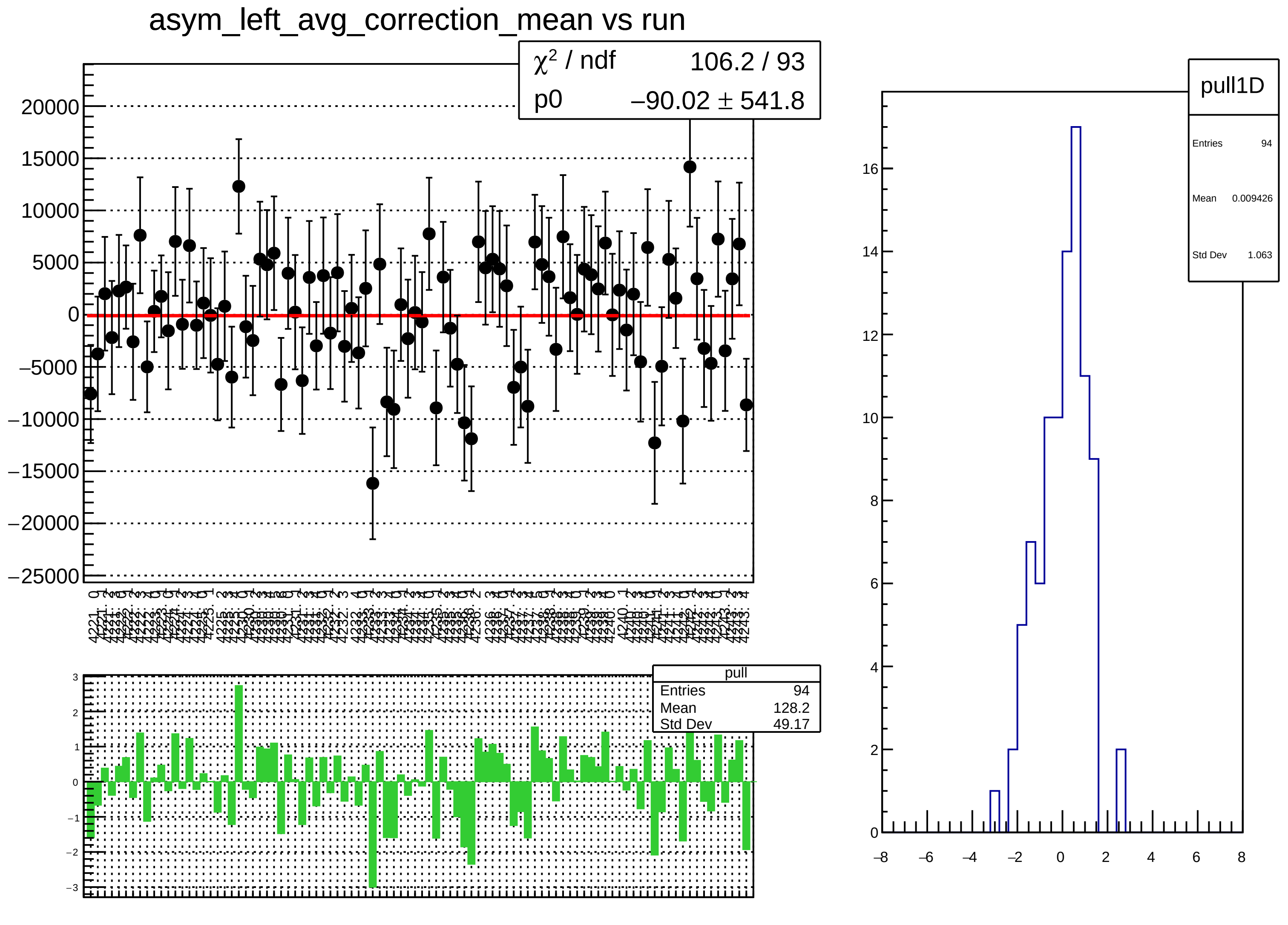
asym_dsr_rms vs run
χ2 / ndf 8316 / 93
p0 451.5 ± 0.3312
520
500
480
460
440
420
400
380



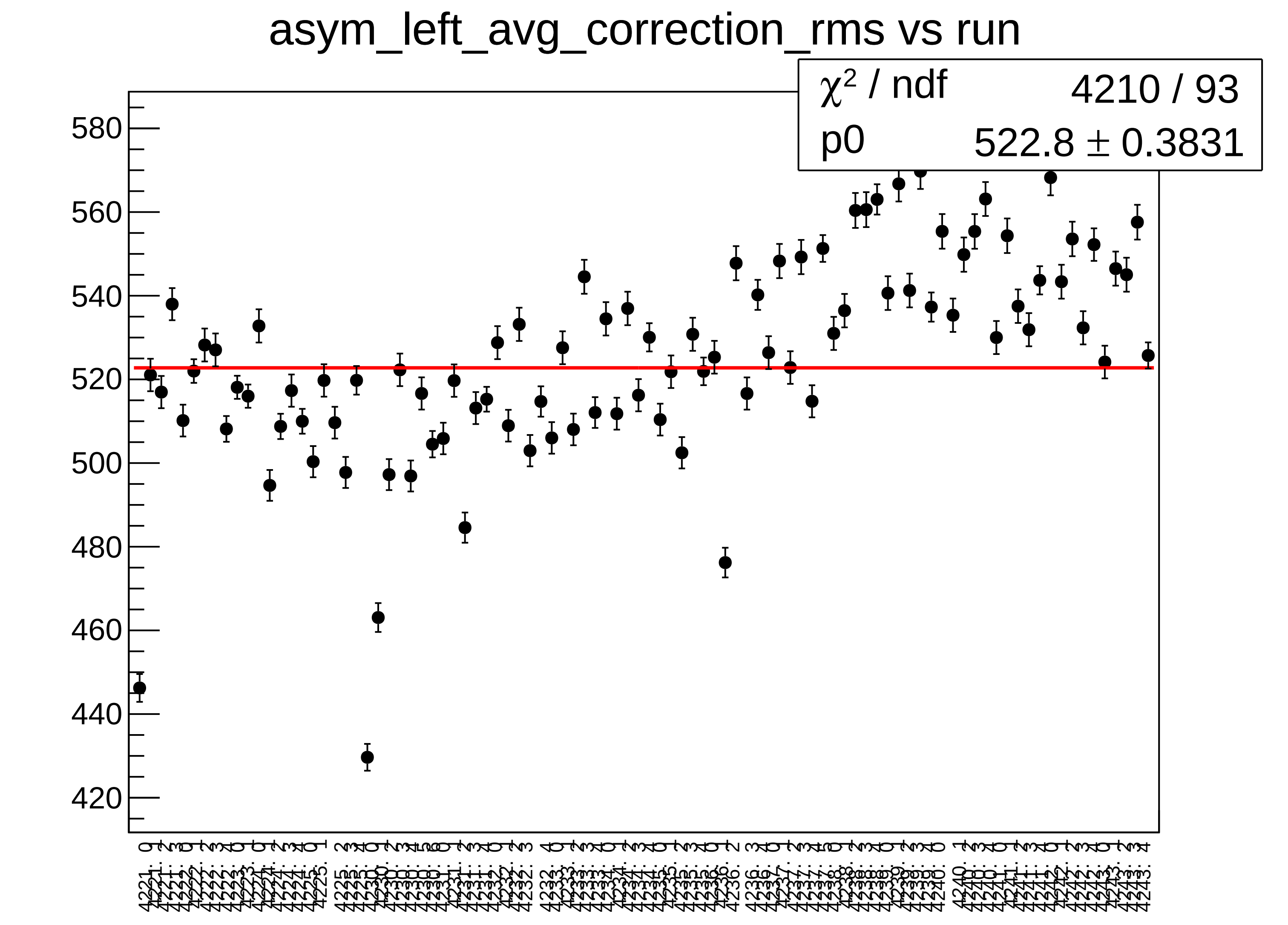
reg_asym_left_avg_mean vs run
χ2 / ndf 86.24 / 93
p0 584.6 ± 147.9
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −233.3
Std Dev 292.3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004438
Std Dev 0.9578
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

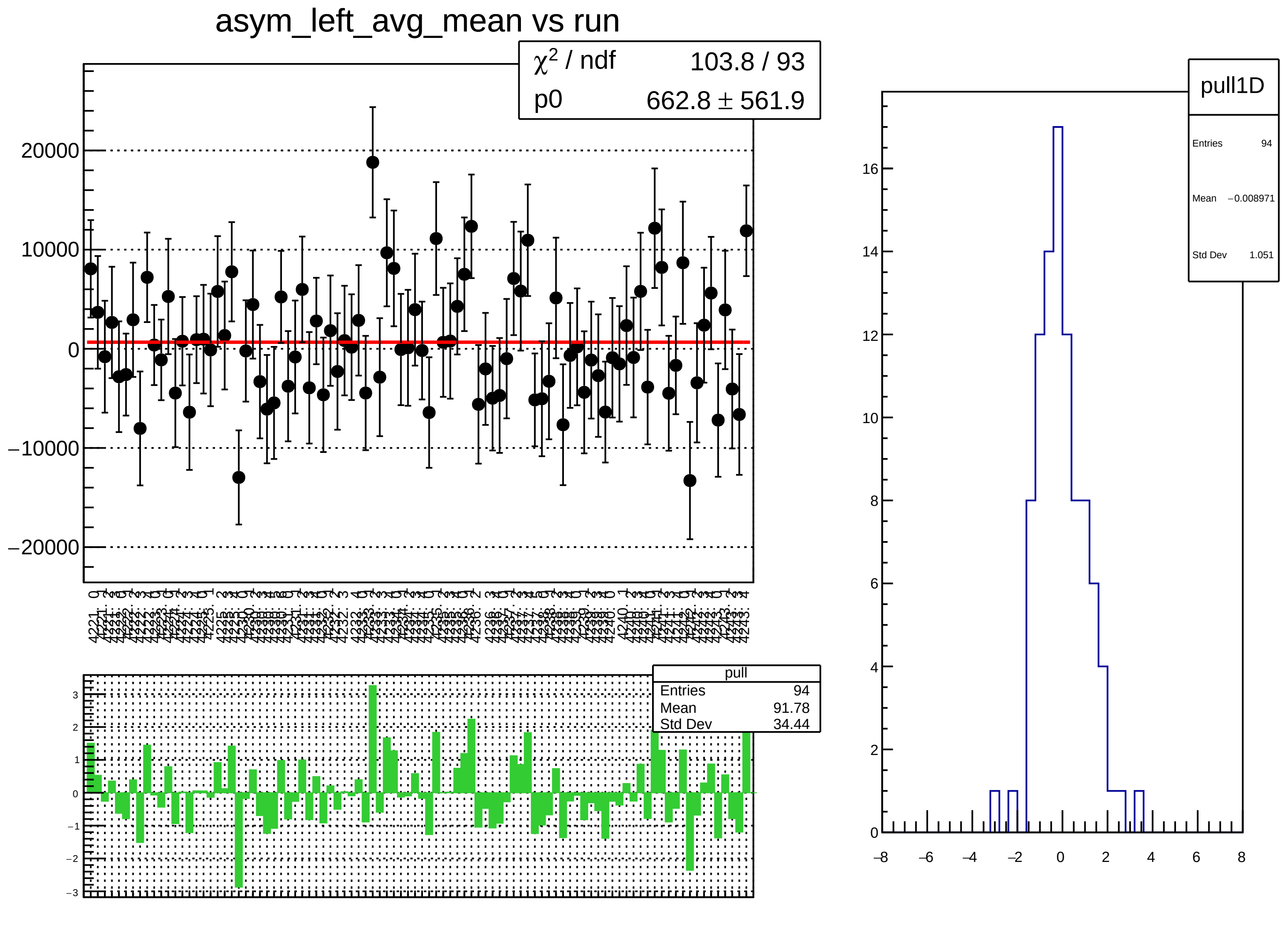


reg_asym_left_avg_rms vs run
χ^2 / ndf 3798 / 93
p0 142.8 ± 0.1046
200
190
180
170
160
150
140
130

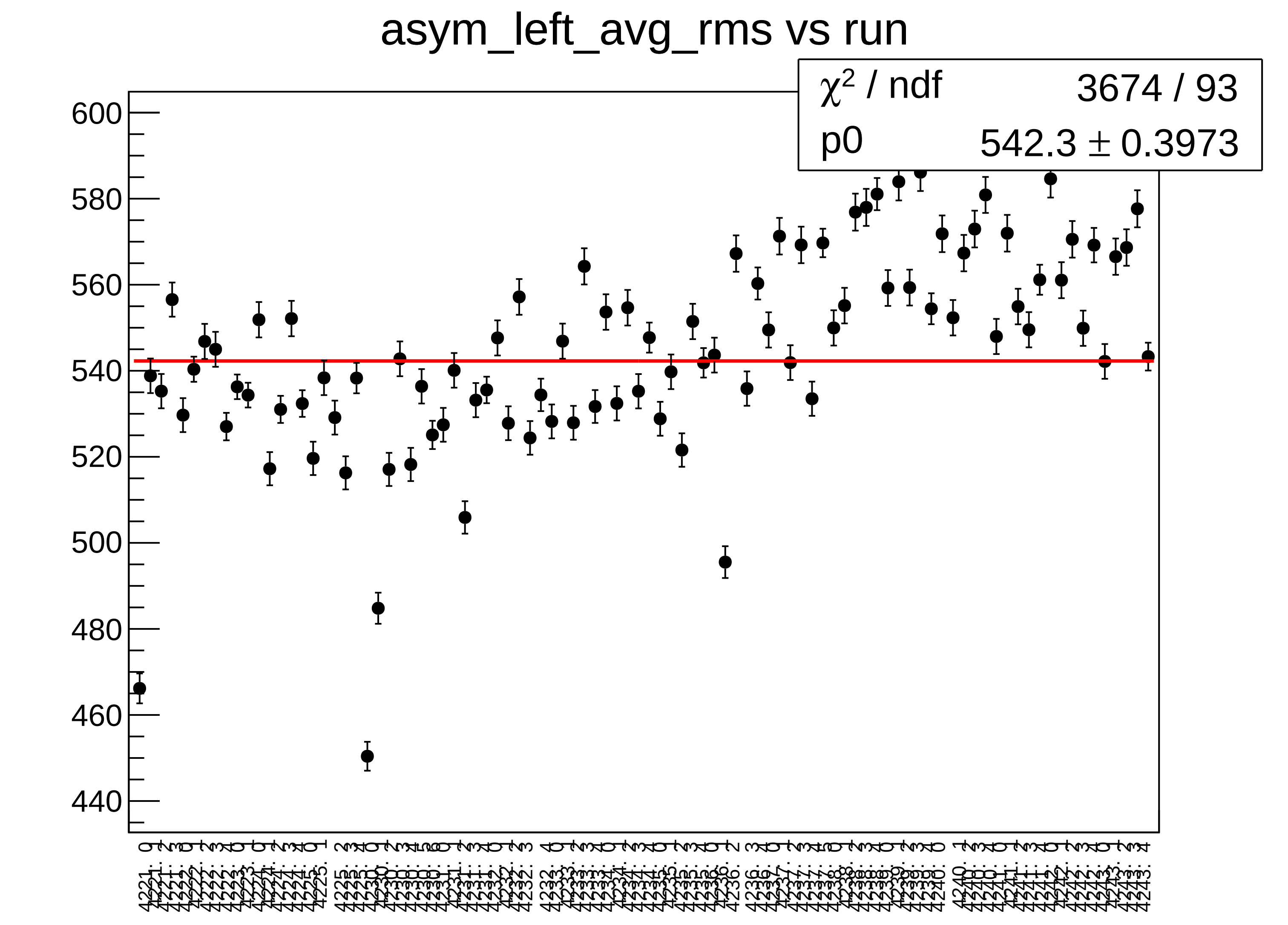


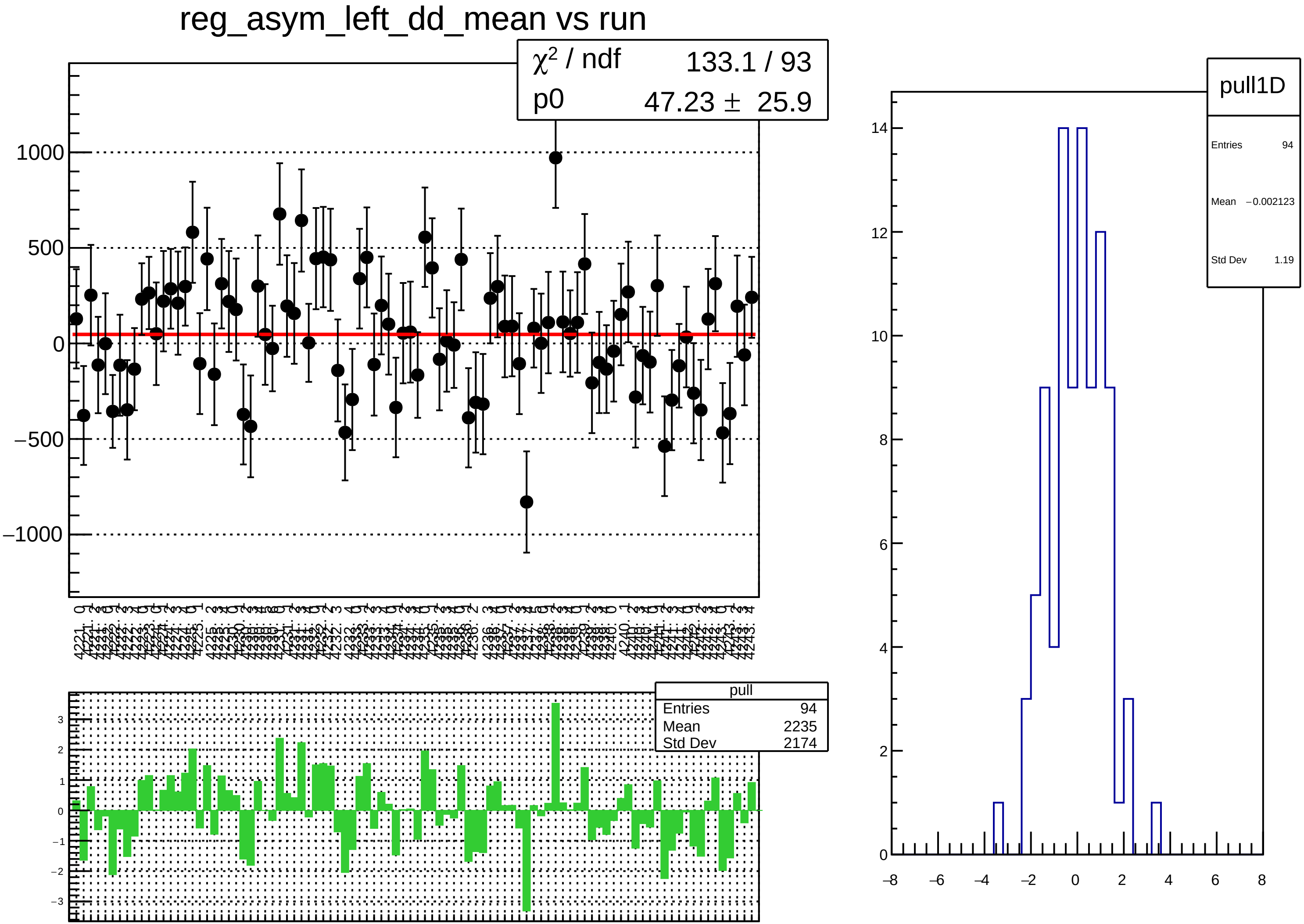
asym_left_avg_correction_mean vs run
χ^2 / ndf 106.2 / 93
p0 −90.02 ± 541.8
pull
Entries 94
Mean 128.2
Std Dev 49.17
pull1D
Entries 94
Mean 0.009426
Std Dev 1.063


asym_left_avg_correction_rms vs run
χ^2 / ndf 4210 / 93
p0 522.8 ± 0.3831
580
560
540
520
500
480
460
440
420

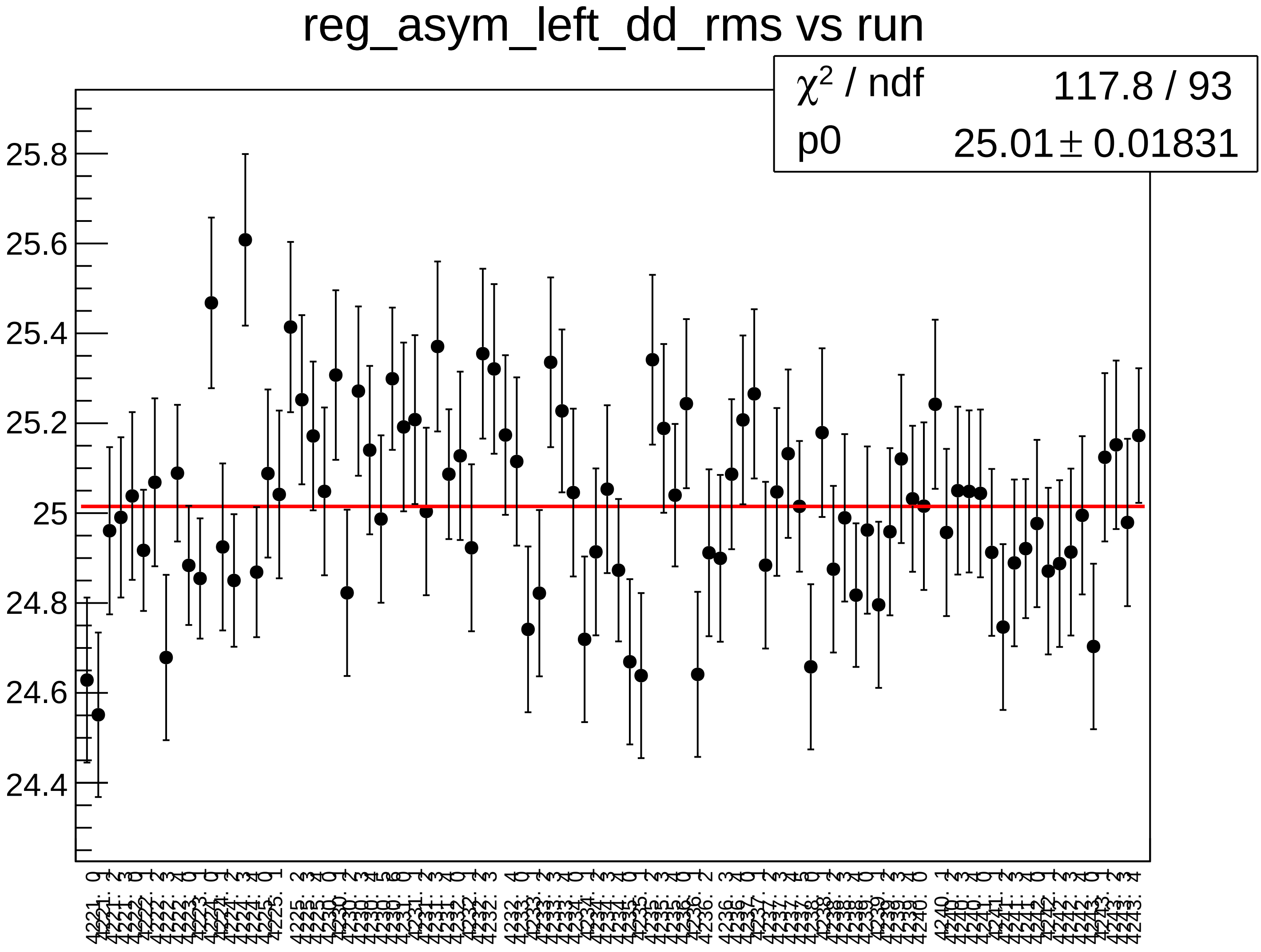


asym_left_avg_mean vs run
χ2 / ndf 103.8 / 93
p0 662.8 ± 561.9
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 91.78
Std Dev 34.44
pull1D
Entries 94
Mean −0.008971
Std Dev 1.051

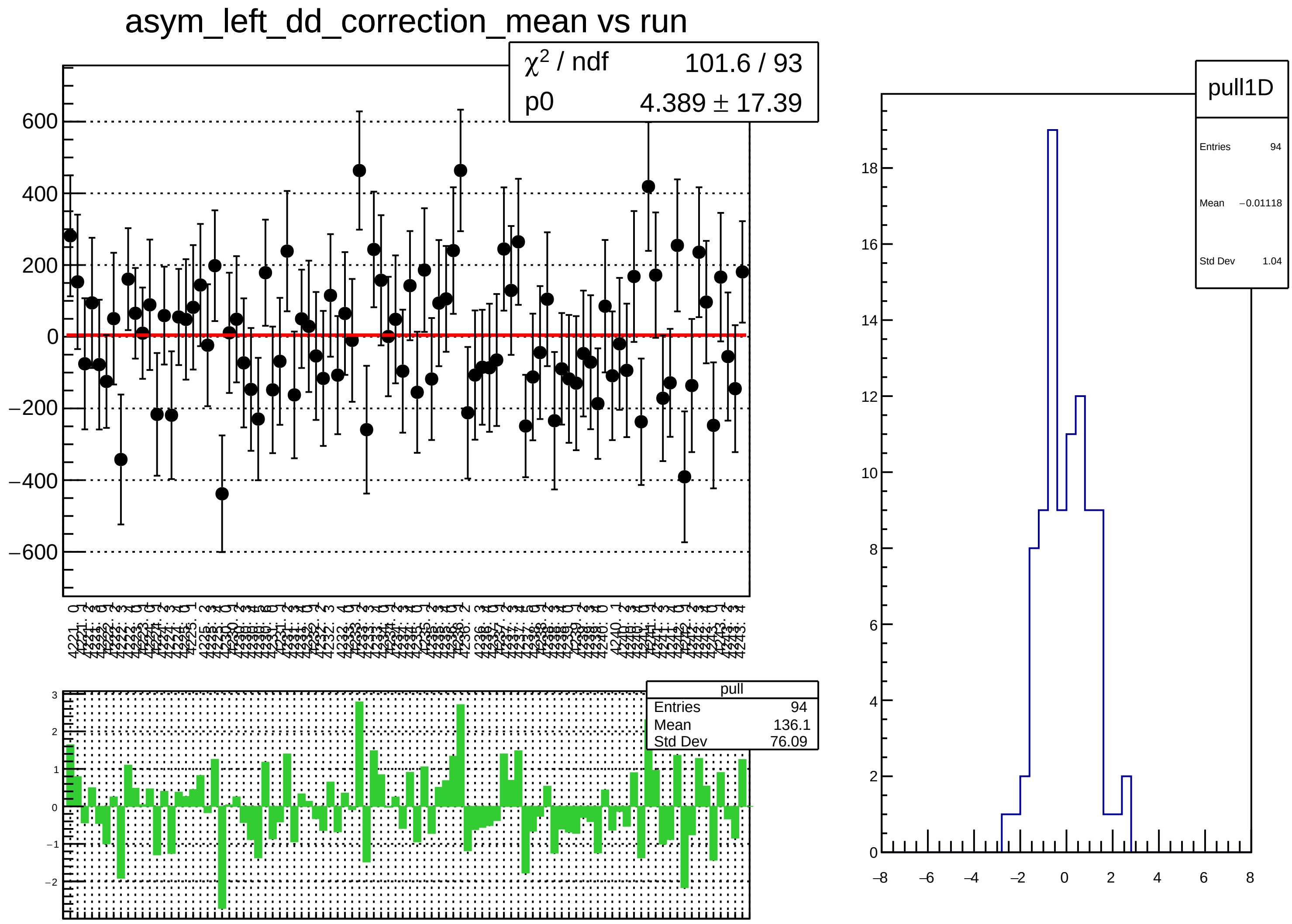

asym_left_avg_rms vs run
χ2 / ndf 3674 / 93
p0 542.3 ± 0.3973



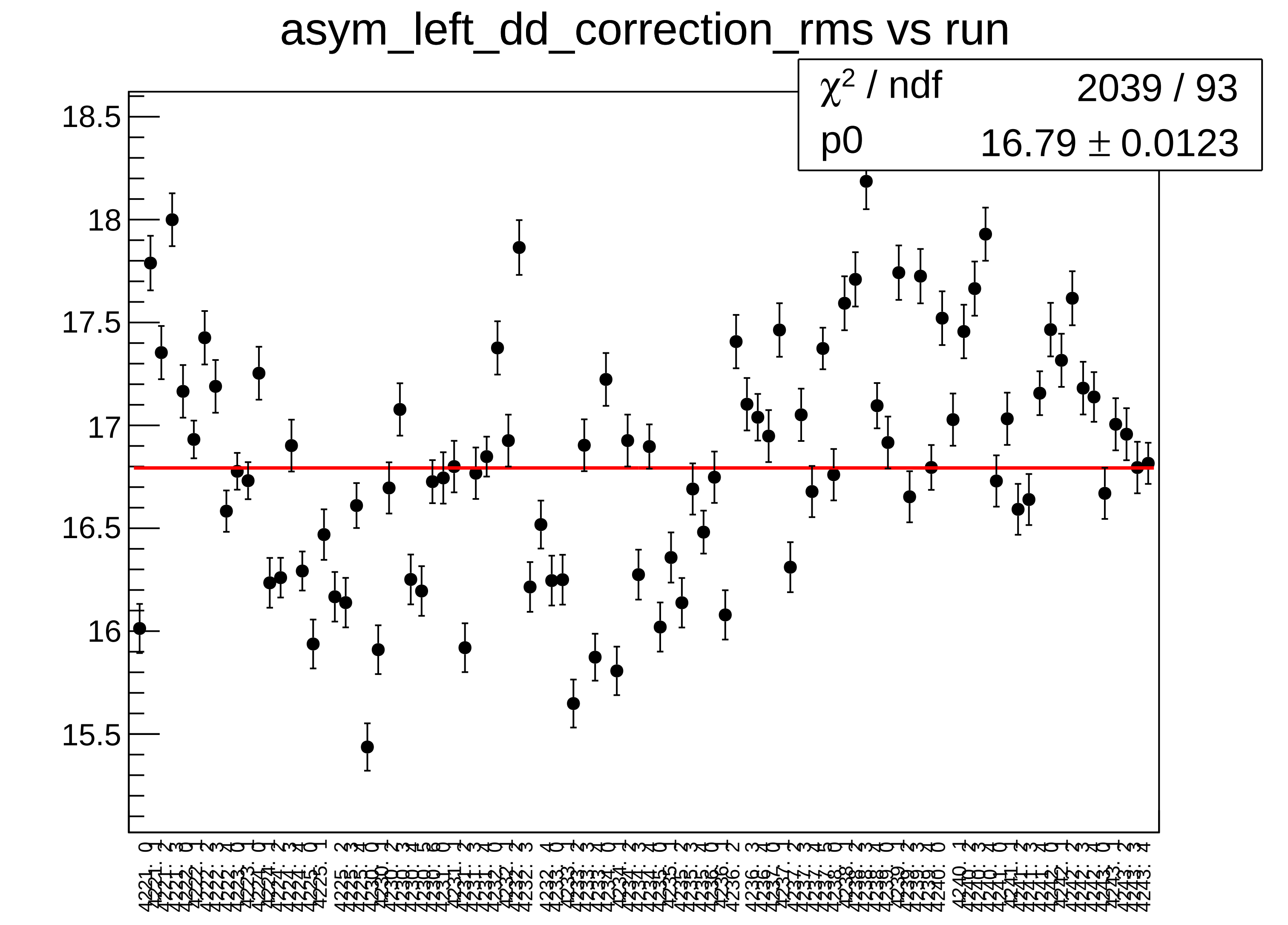
reg_asym_left_dd_mean vs run
χ^2 / ndf 133.1 / 93
p0 47.23 ± 25.9
pull
Entries 94
Mean 2235
Std Dev 2174
pull1D
Entries 94
Mean −0.002123
Std Dev 1.19



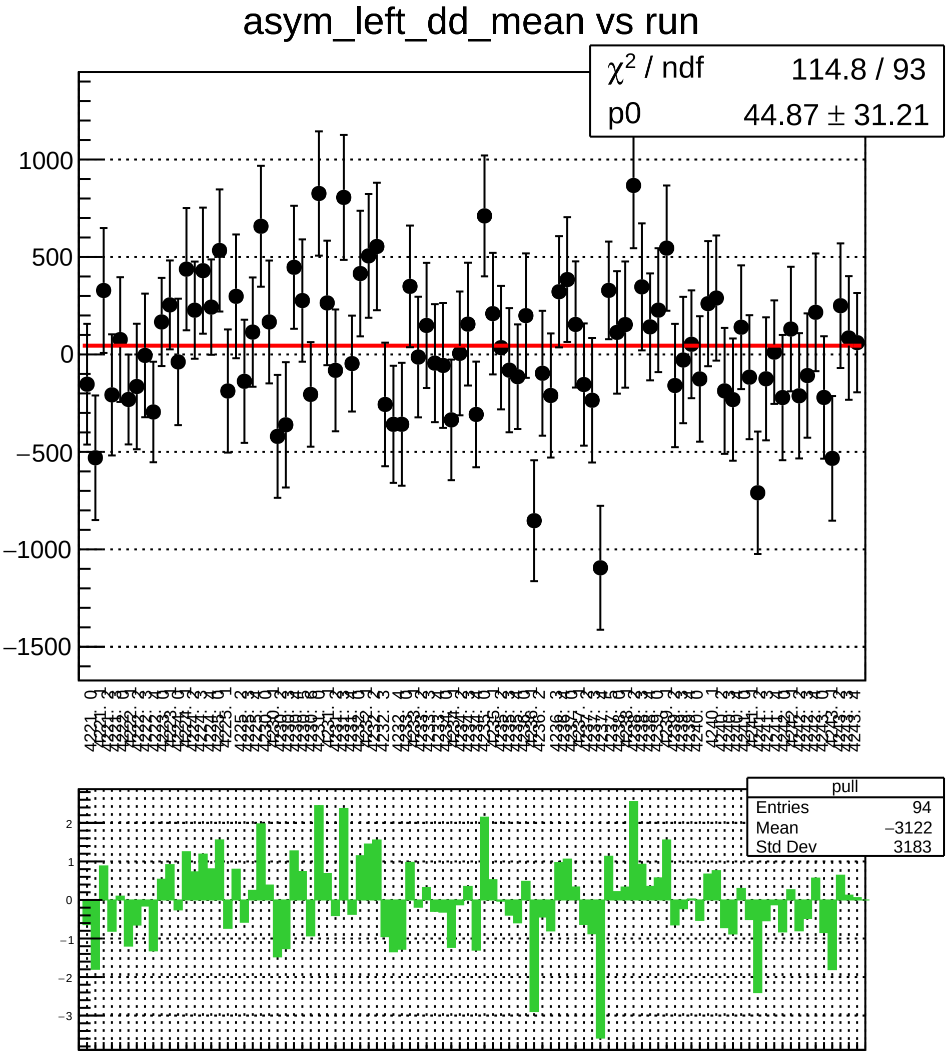
reg_asym_left_dd_rms vs run
χ2 / ndf 117.8 / 93
p0 25.01 ± 0.01831
25.8
25.6
25.4
25.2
25
24.8
24.6
24.4

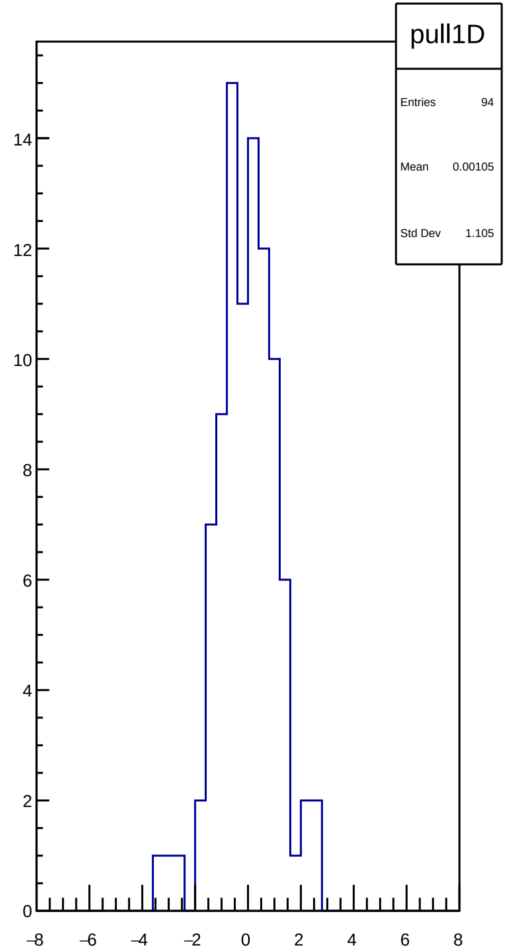


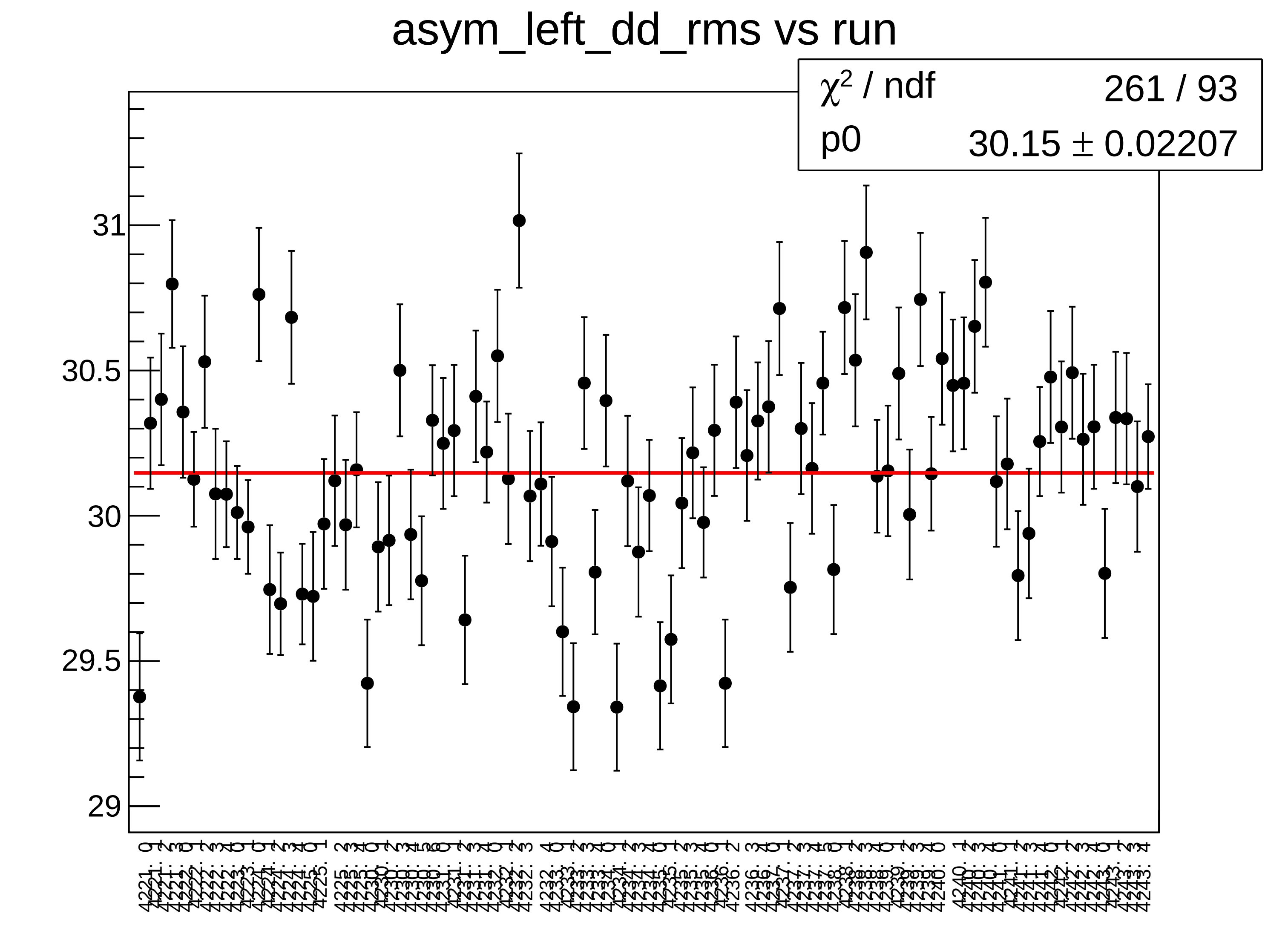
asym_left_dd_correction_mean vs run
χ2 / ndf 101.6 / 93
p0 4.389 ± 17.39
pull
Entries 94
Mean 136.1
Std Dev 76.09
pull1D
Entries 94
Mean −0.01118
Std Dev 1.04



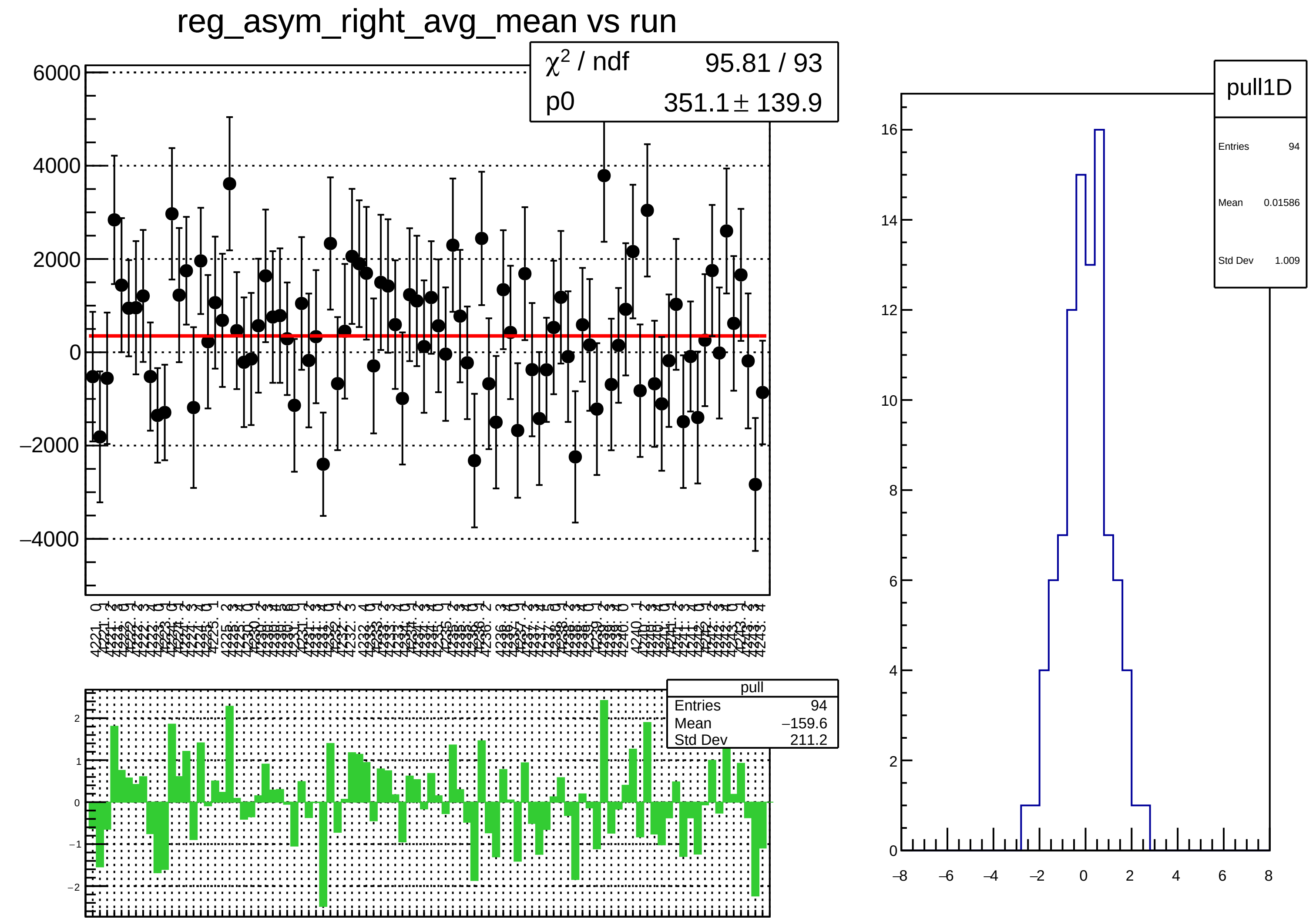
asym_left_dd_correction_rms vs run
χ^2 / ndf 2039 / 93
p0 16.79 ± 0.0123
18.5
18
17.5
17
16.5
16
15.5


asym_left_dd_mean vs run
χ^2 / ndf 114.8 / 93
p0 44.87 ± 31.21
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean −3122
Std Dev 3183

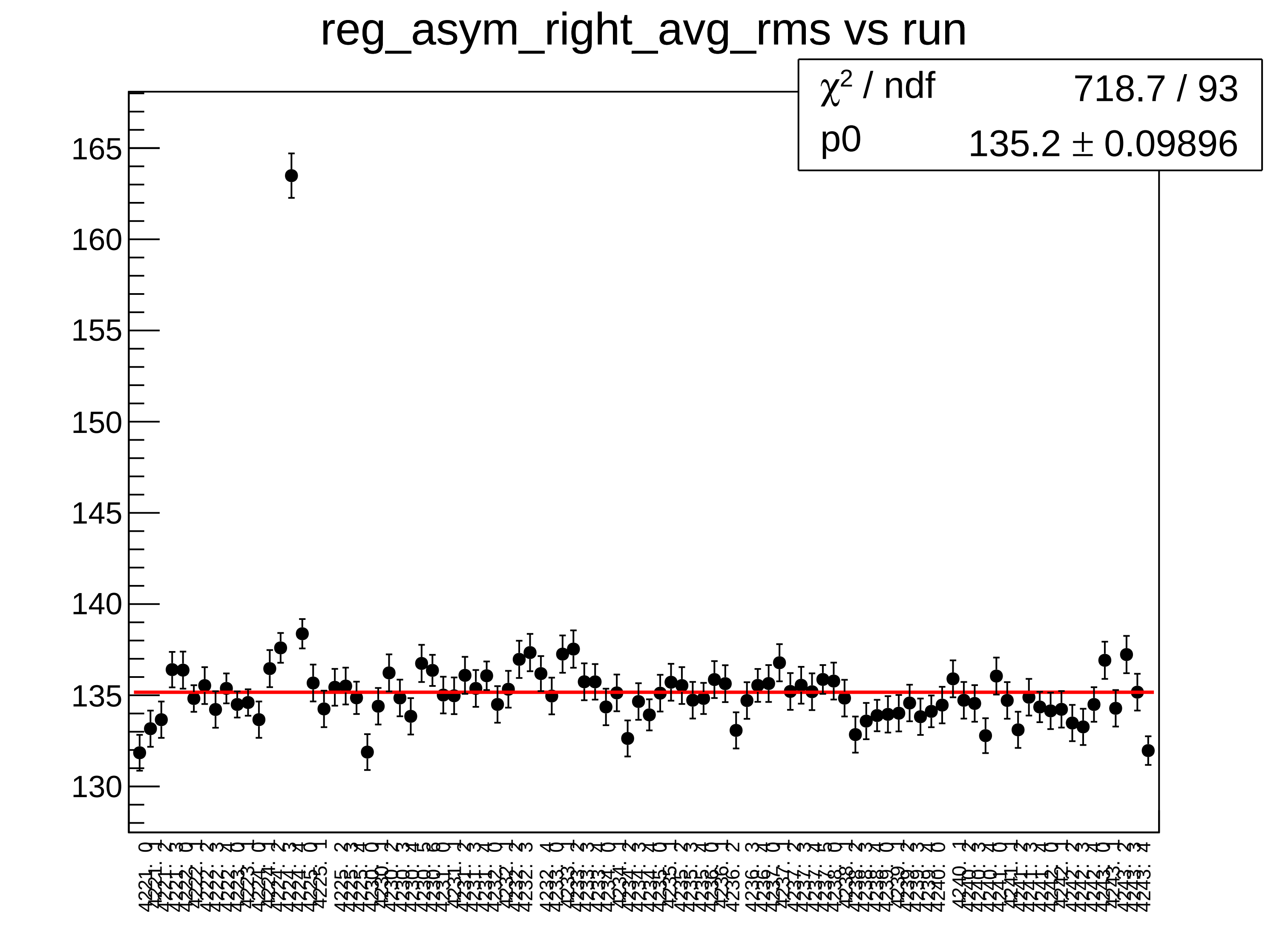

pull1D
Entries 94
Mean 0.00105
Std Dev 1.105



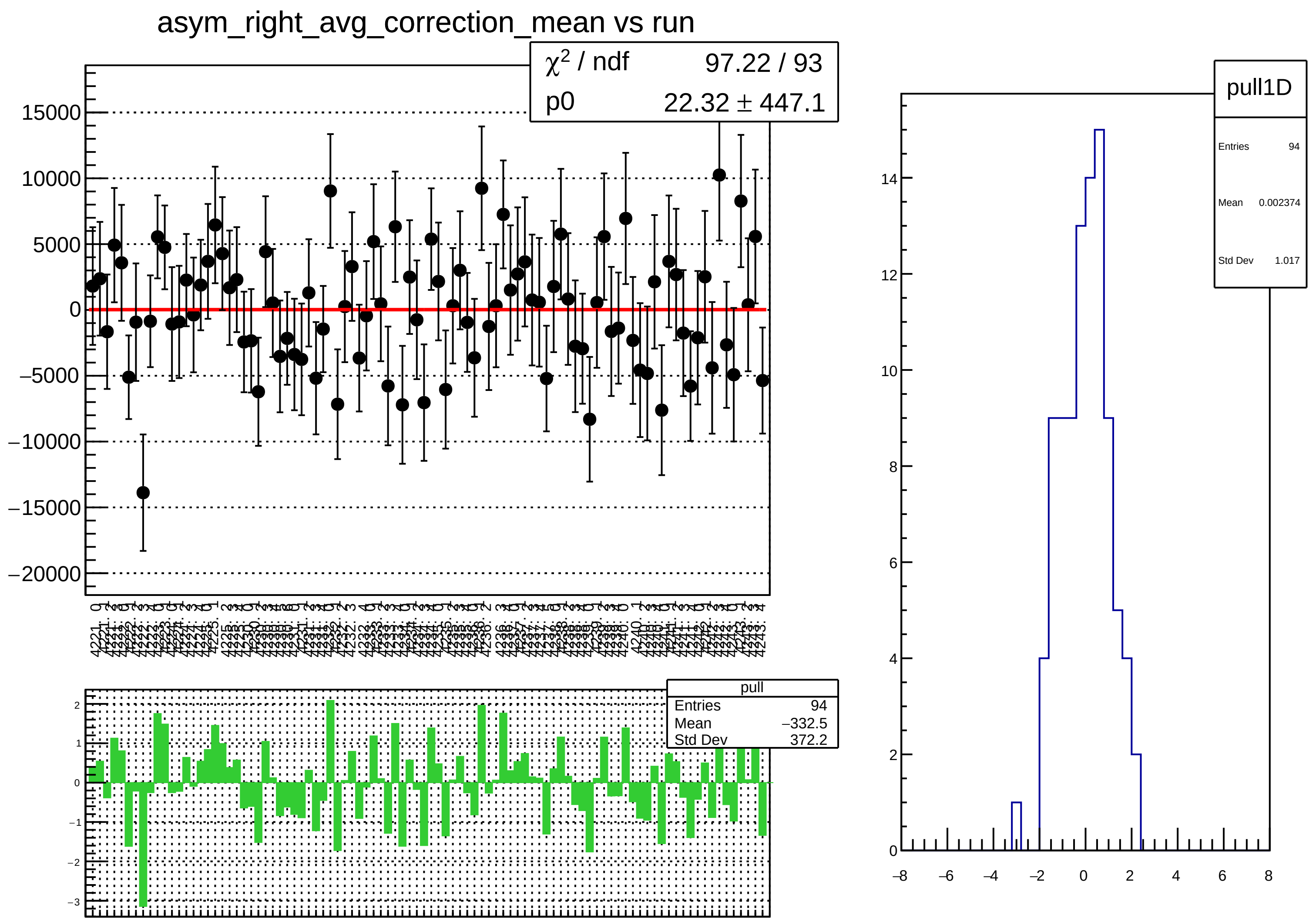
asym_left_dd_rms vs run
χ2 / ndf 261 / 93
p0 30.15 ± 0.02207
31
30.5
30
29.5
29



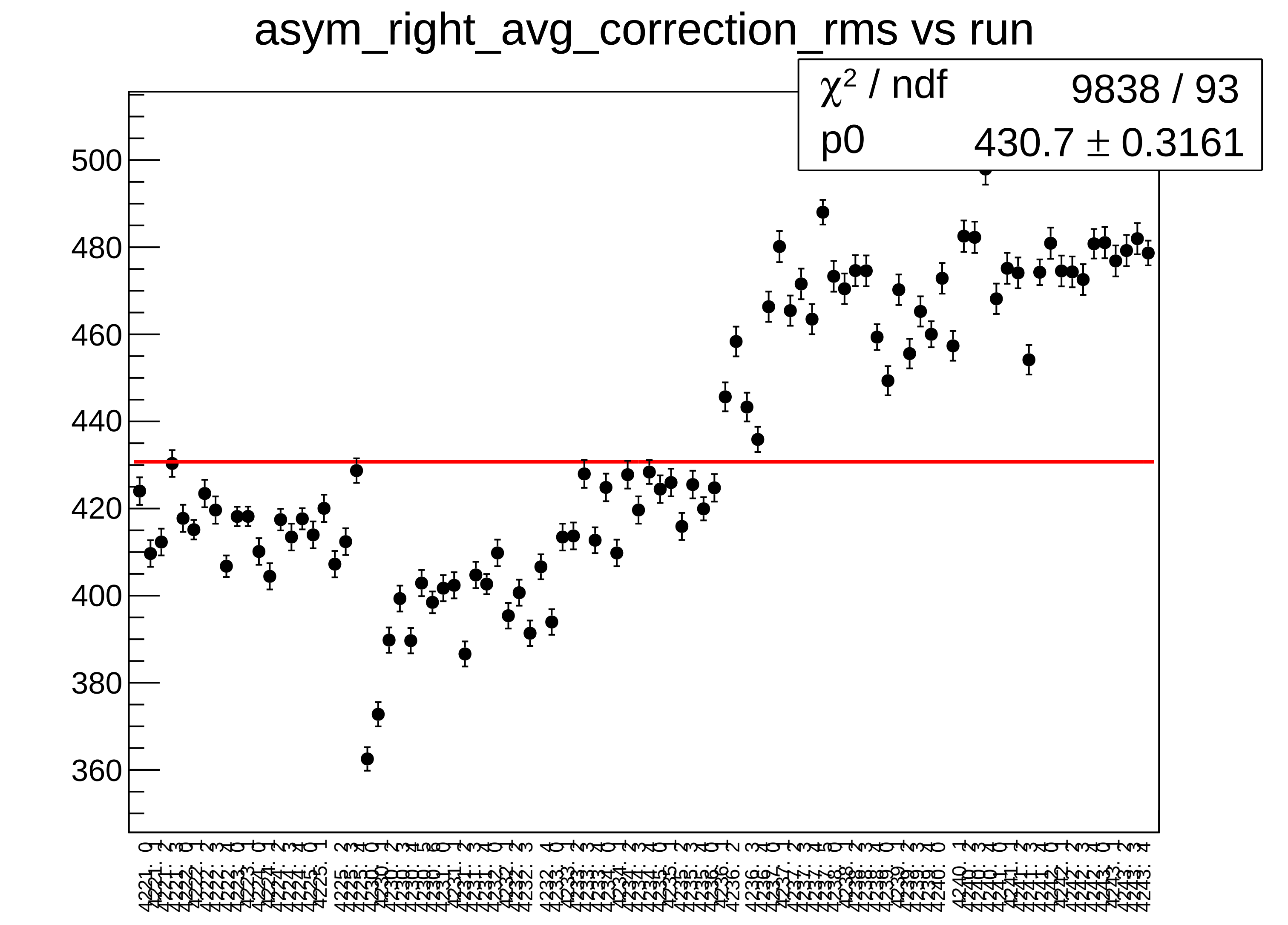
reg_asym_right_avg_mean vs run
χ^2 / ndf 95.81 / 93
p0 351.1 ± 139.9
pull
Entries 94
Mean −159.6
Std Dev 211.2
pull1D
Entries 94
Mean 0.01586
Std Dev 1.009



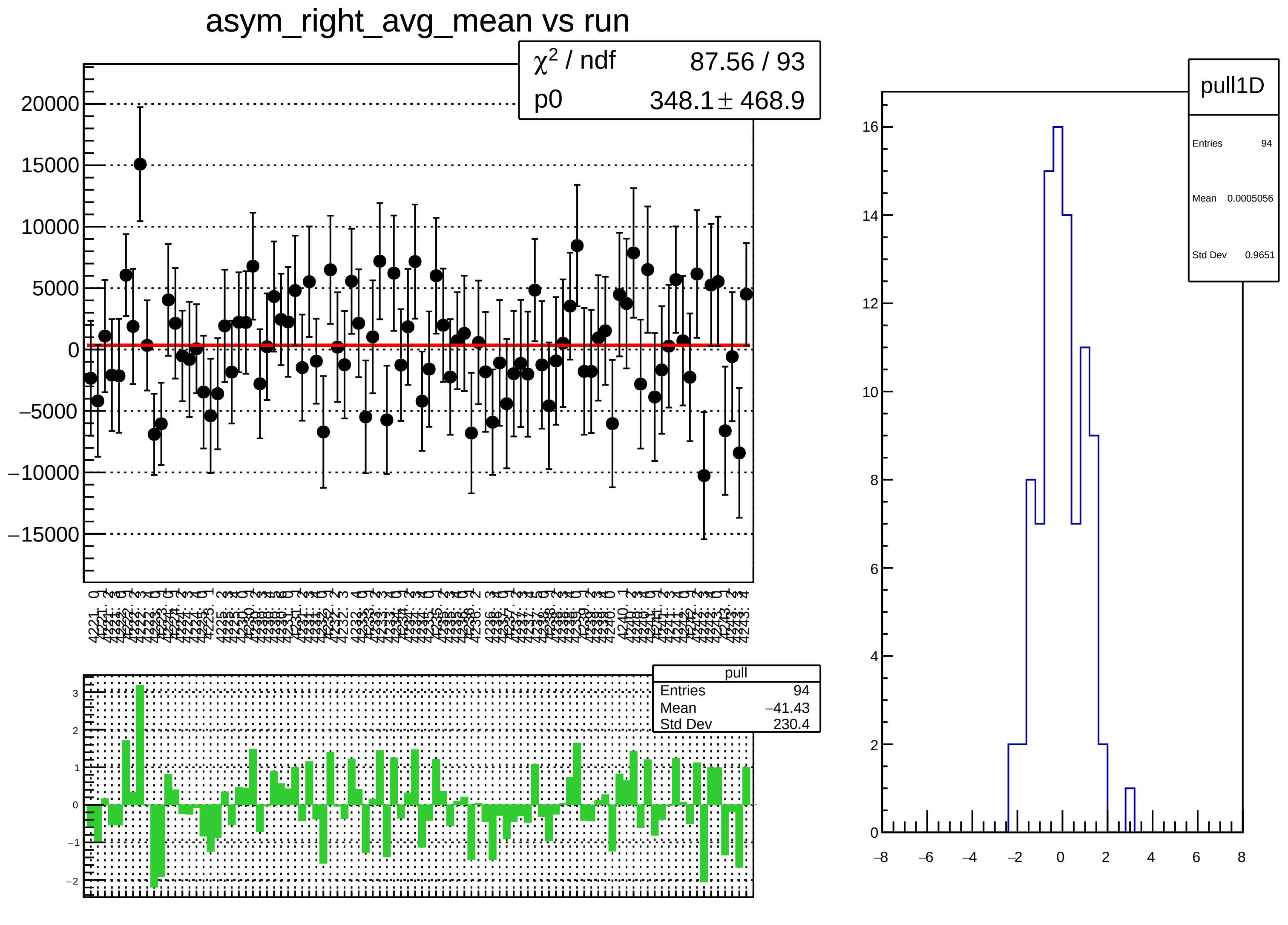
reg_asym_right_avg_rms vs run
χ^2 / ndf 718.7 / 93
p0 135.2 ± 0.09896
165
160
155
150
145
140
135
130

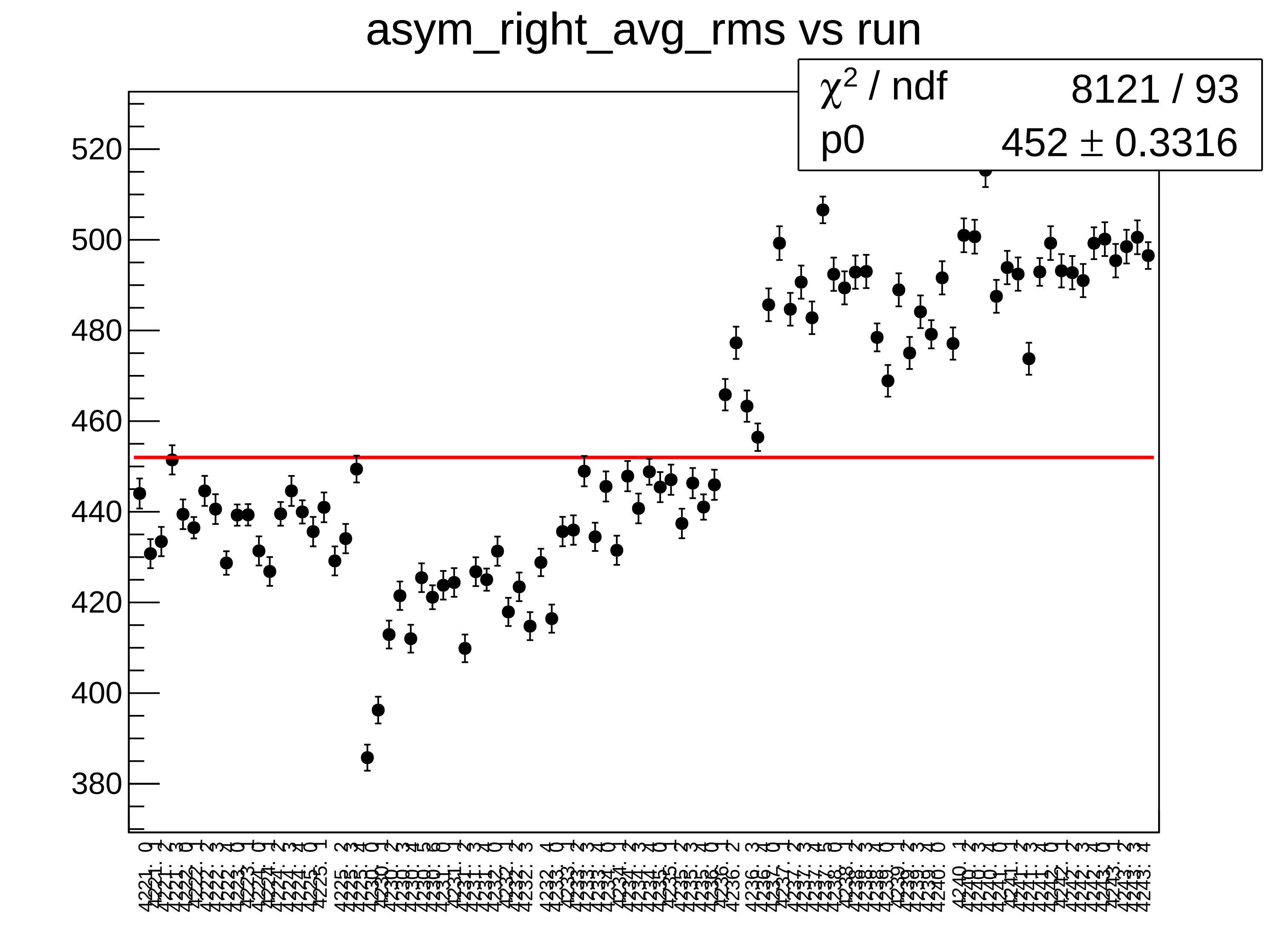


asym_right_avg_correction_mean vs run
χ2 / ndf 97.22 / 93
p0 22.32 ± 447.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −332.5
Std Dev 372.2
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.002374
Std Dev 1.017
14
12
10
8
6
4
2
0
−8 −6 −4 −2 0 2 4 6 8

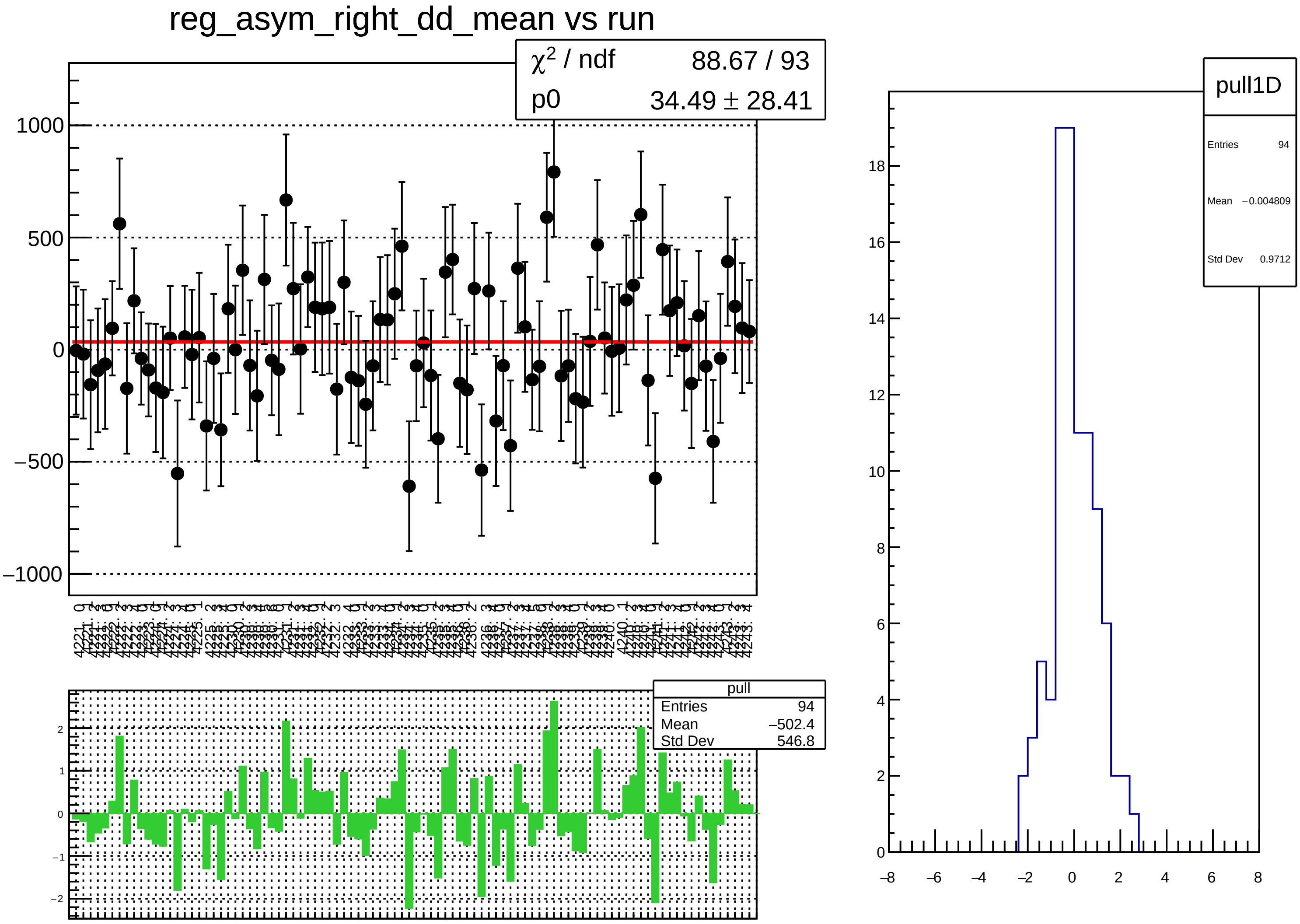


asym_right_avg_correction_rms vs run
χ² / ndf 9838 / 93
p0 430.7 ± 0.3161
500
480
460
440
420
400
380
360

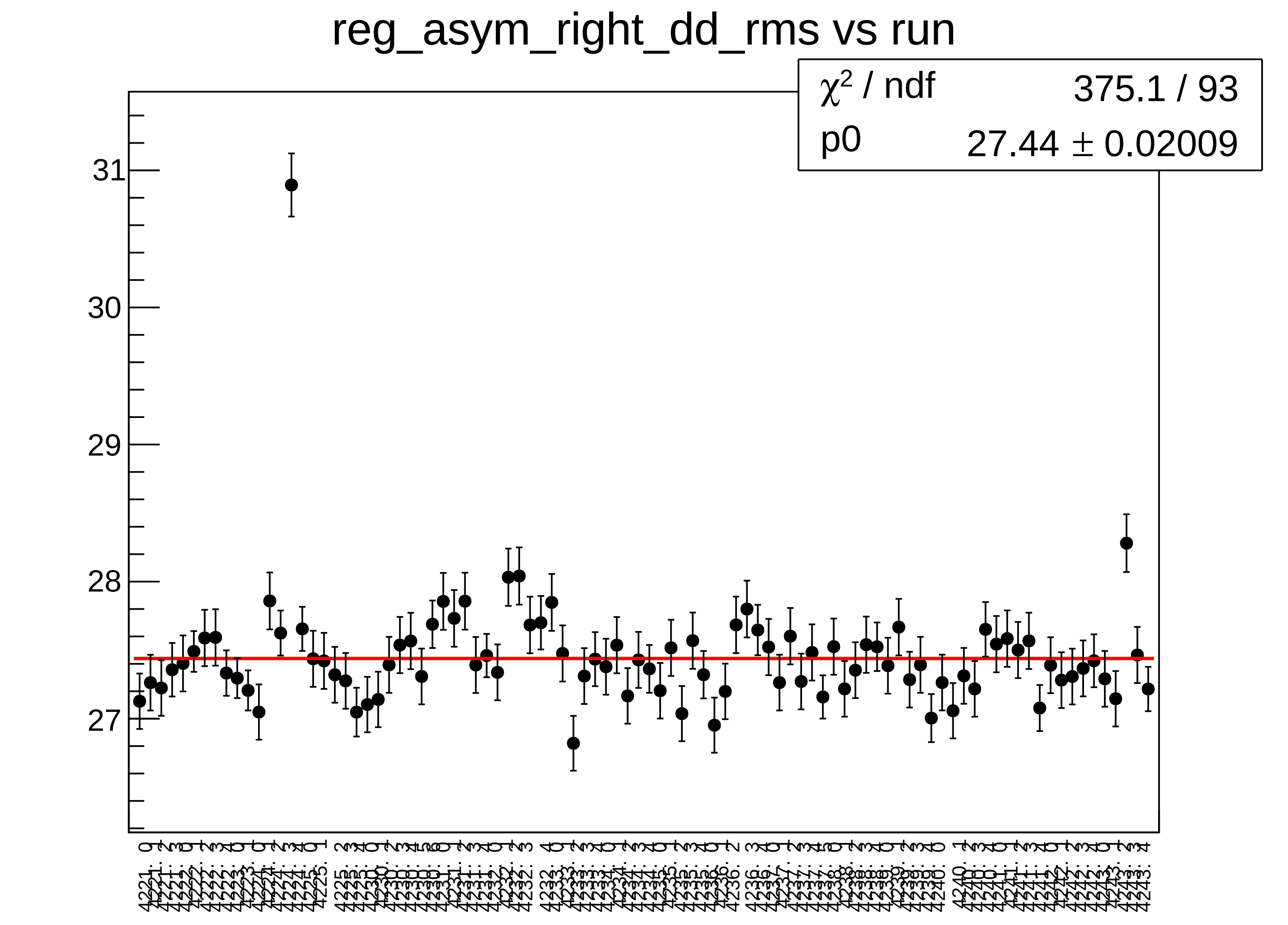

asym_right_avg_mean vs run
χ2 / ndf 87.56 / 93
p0 348.1 ± 468.9
pull
Entries 94
Mean −41.43
Std Dev 230.4
pull1D
Entries 94
Mean 0.0005056
Std Dev 0.9651



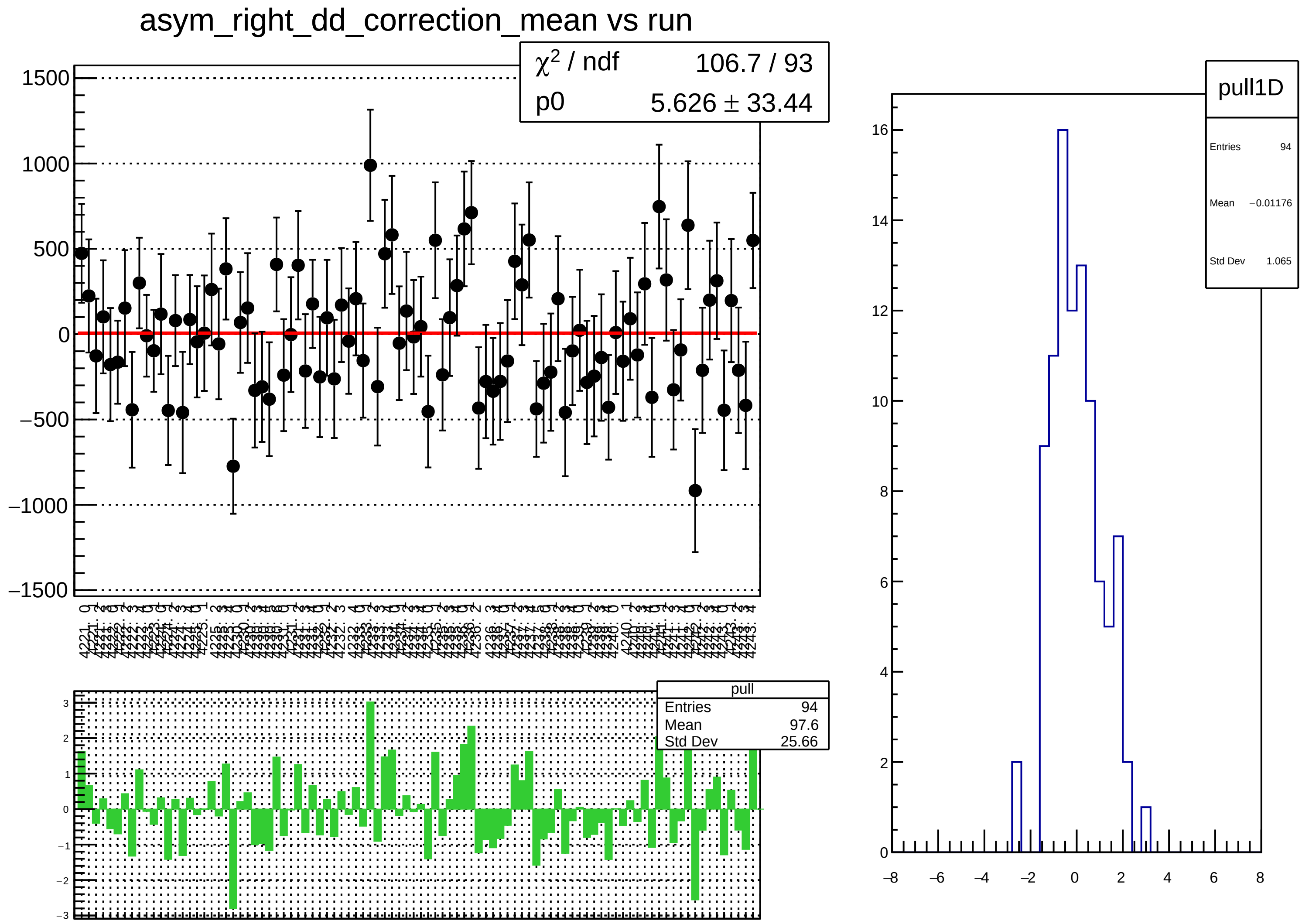
asym_right_avg_rms vs run
χ^2 / ndf 8121 / 93
p0 452 ± 0.3316
520
500
480
460
440
420
400
380



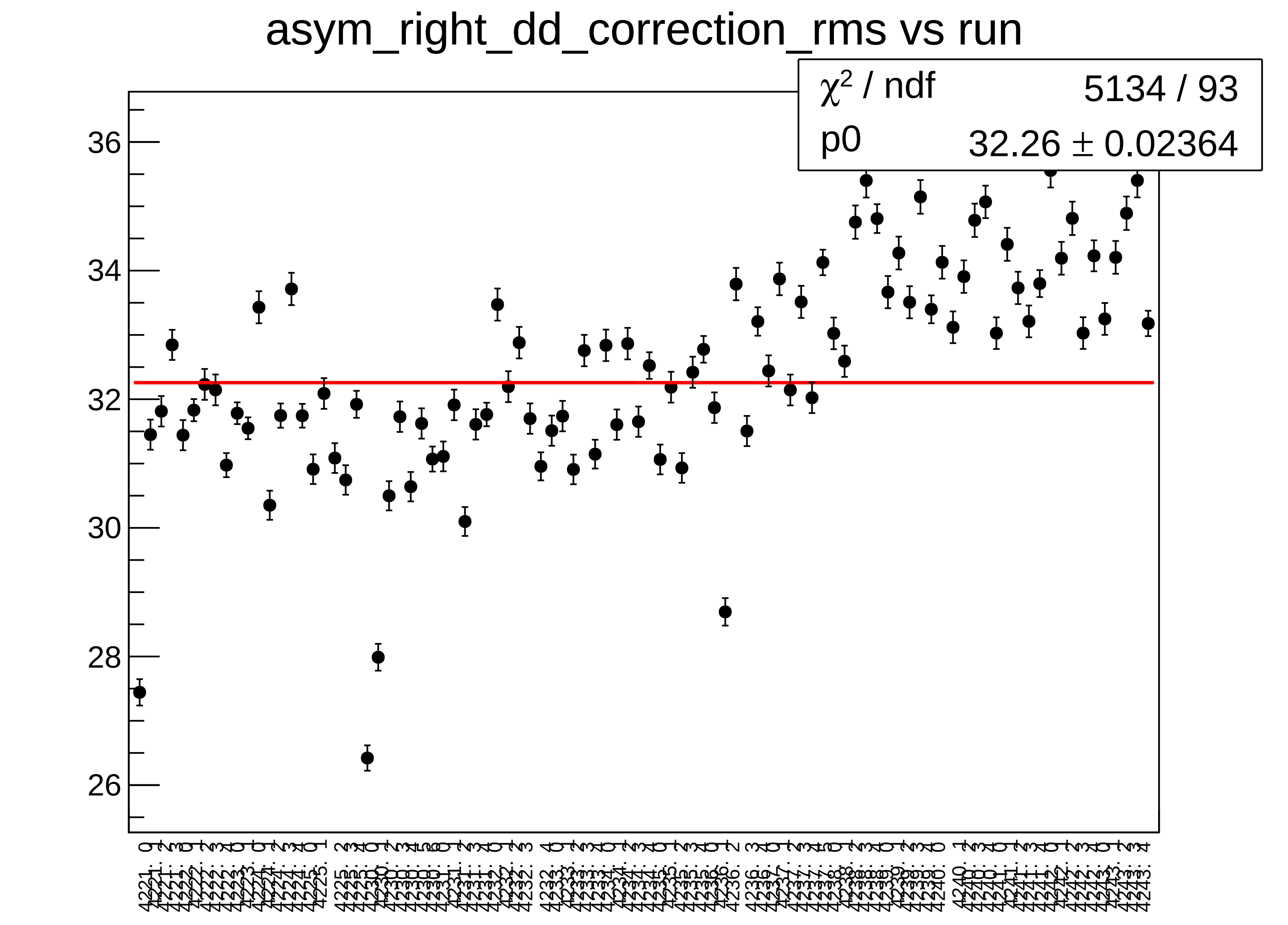
reg_asym_right_dd_mean vs run
χ^2 / ndf 88.67 / 93
p0 34.49 ± 28.41
1000
500
0
−500
−1000
pull
Entries 94
Mean −502.4
Std Dev 546.8
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004809
Std Dev 0.9712
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



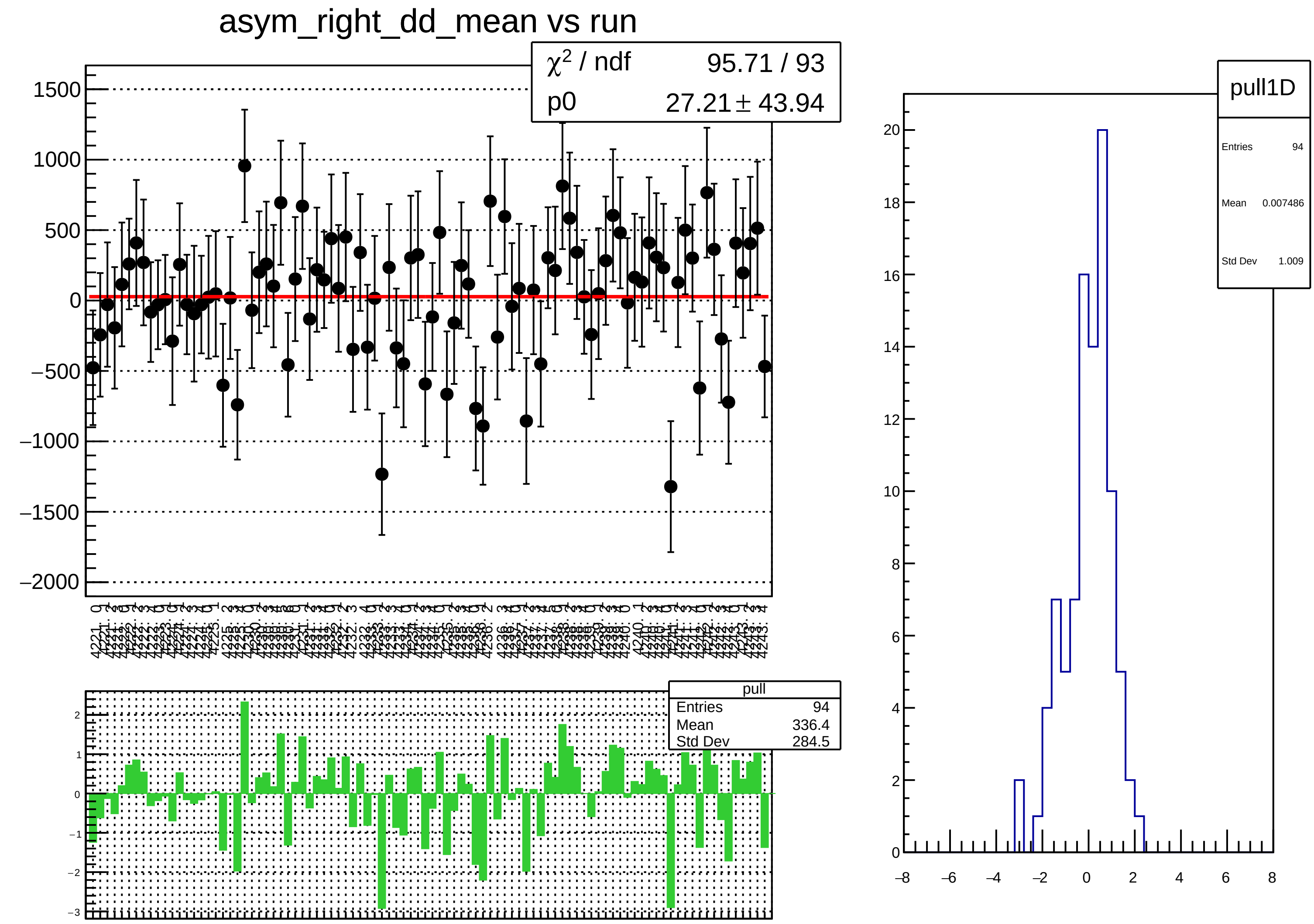
reg_asym_right_dd_rms vs run
χ2 / ndf 375.1 / 93
p0 27.44 ± 0.02009



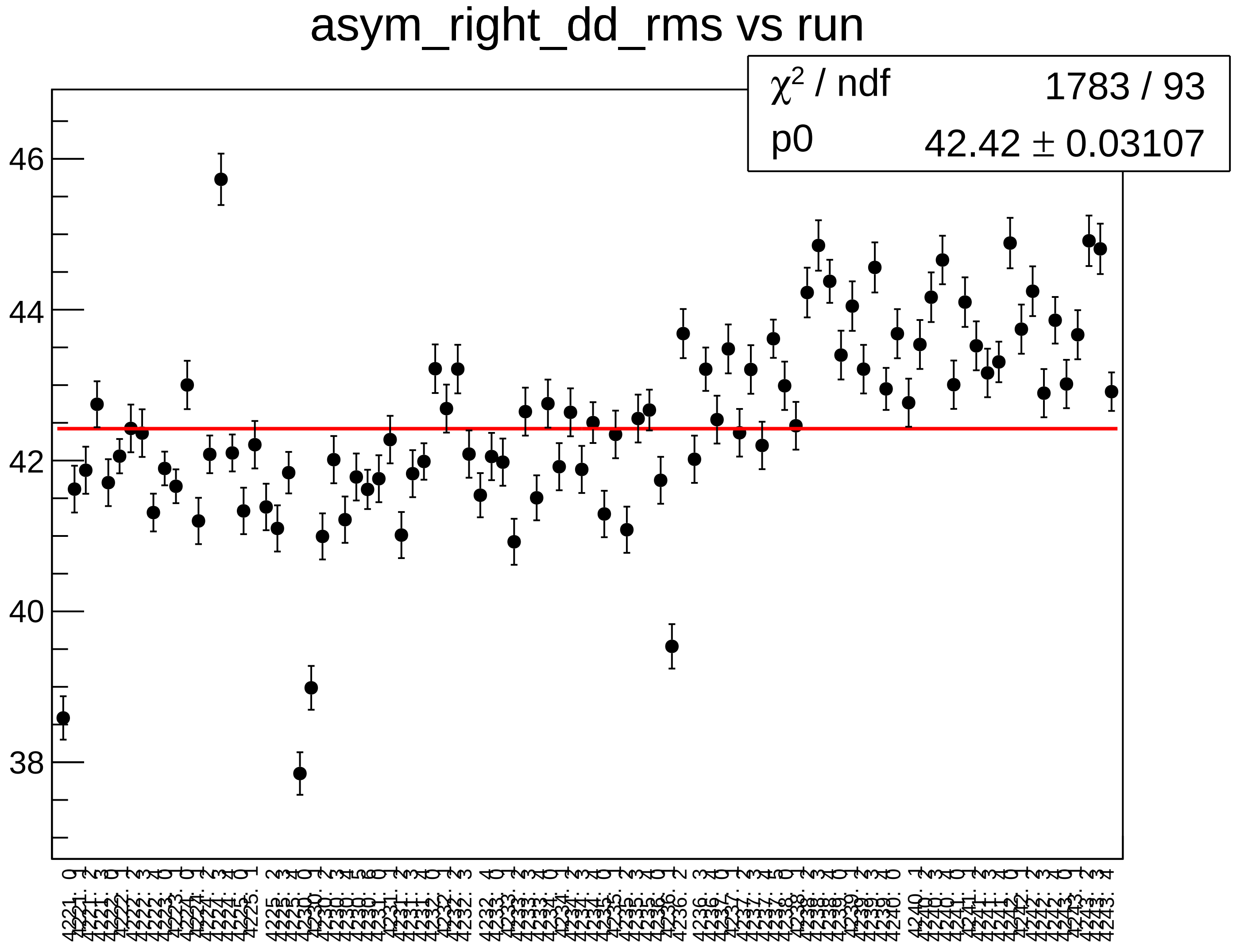
asym_right_dd_correction_mean vs run
χ^2 / ndf 106.7 / 93
p0 5.626 ± 33.44
pull
Entries 94
Mean 97.6
Std Dev 25.66
pull1D
Entries 94
Mean −0.01176
Std Dev 1.065

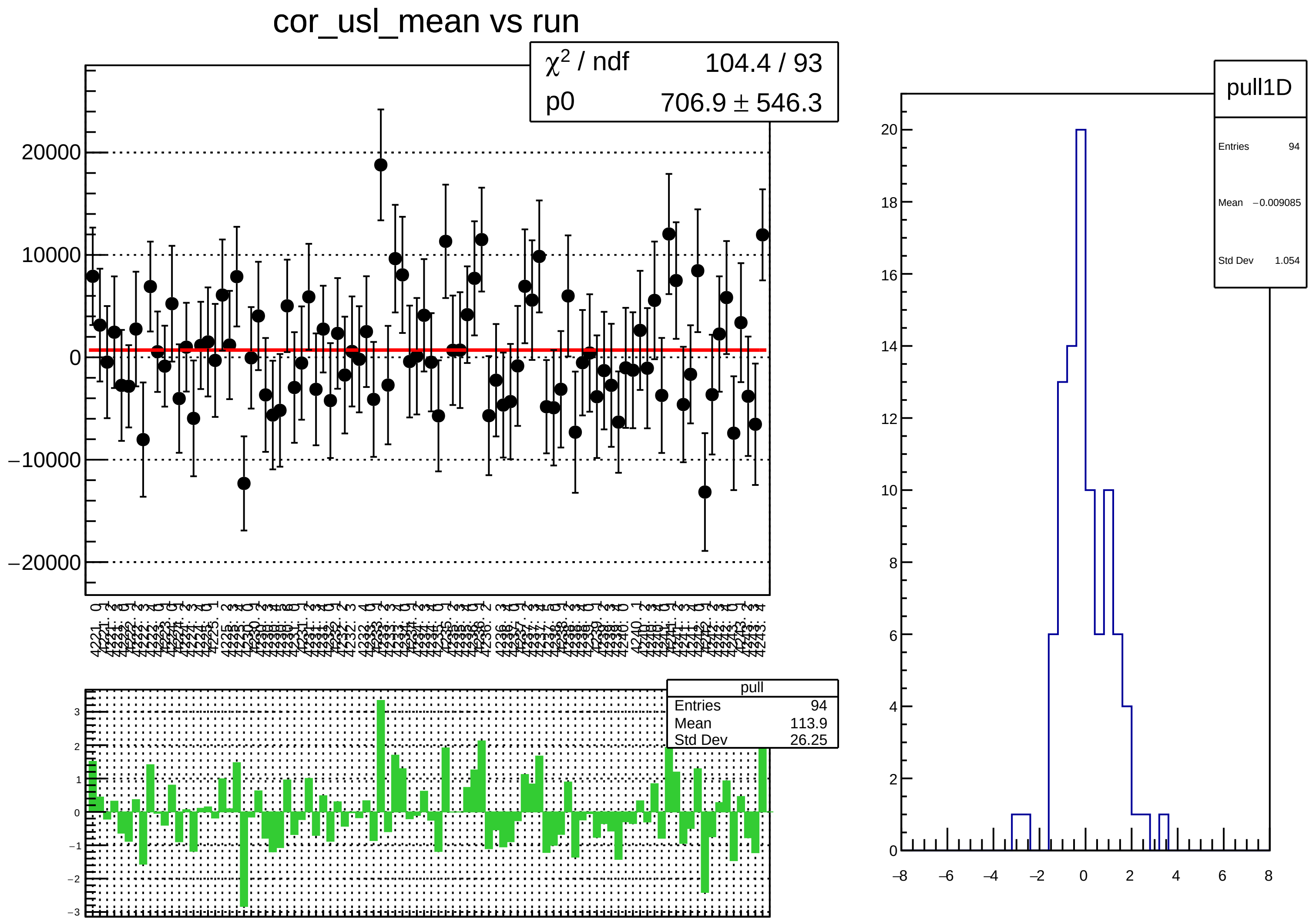


asym_right_dd_correction_rms vs run
χ2 / ndf 5134 / 93
p0 32.26 ± 0.02364
36
34
32
30
28
26

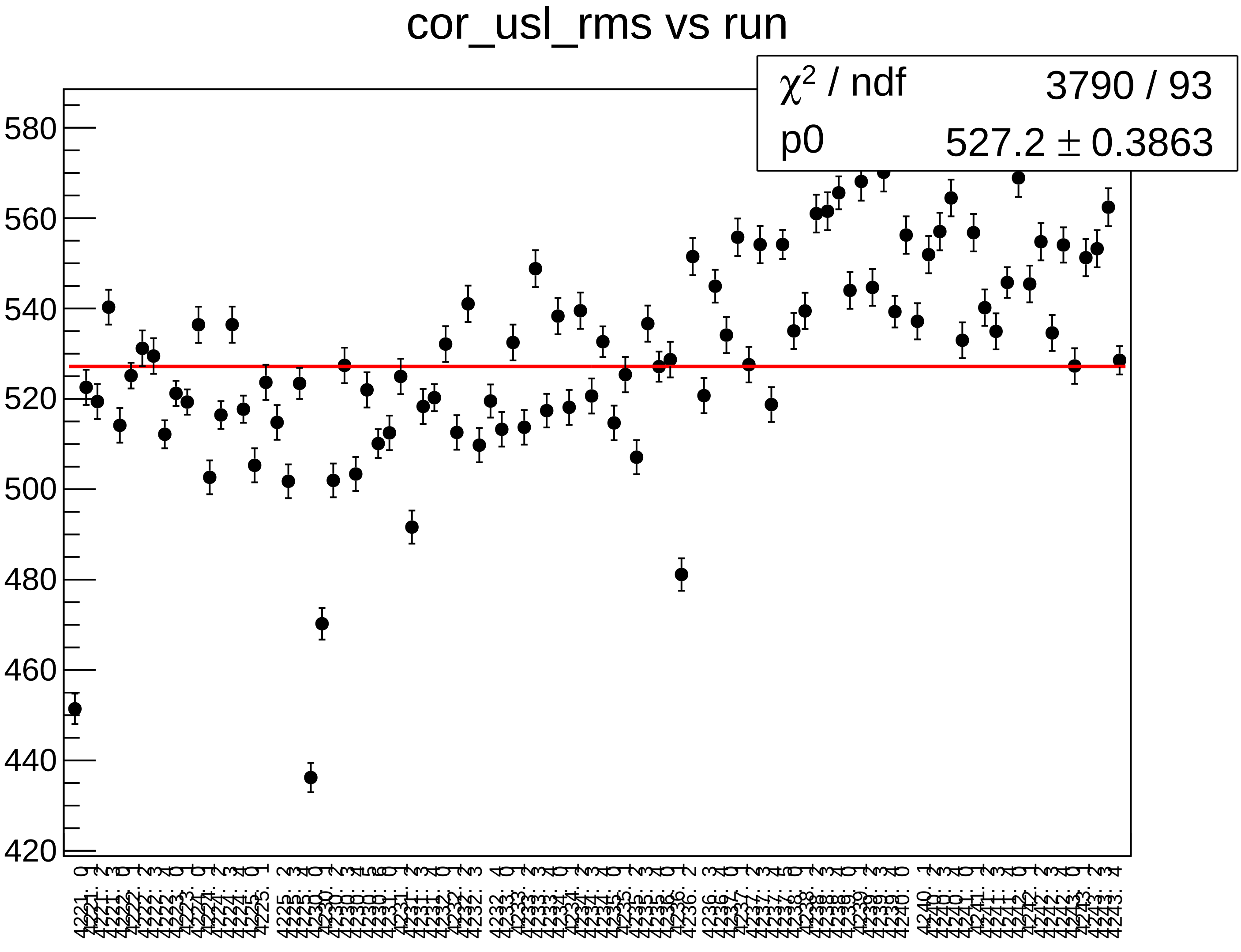


asym_right_dd_mean vs run
χ2 / ndf 95.71 / 93
p0 27.21 ± 43.94
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 94
Mean 336.4
Std Dev 284.5
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.007486
Std Dev 1.009
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

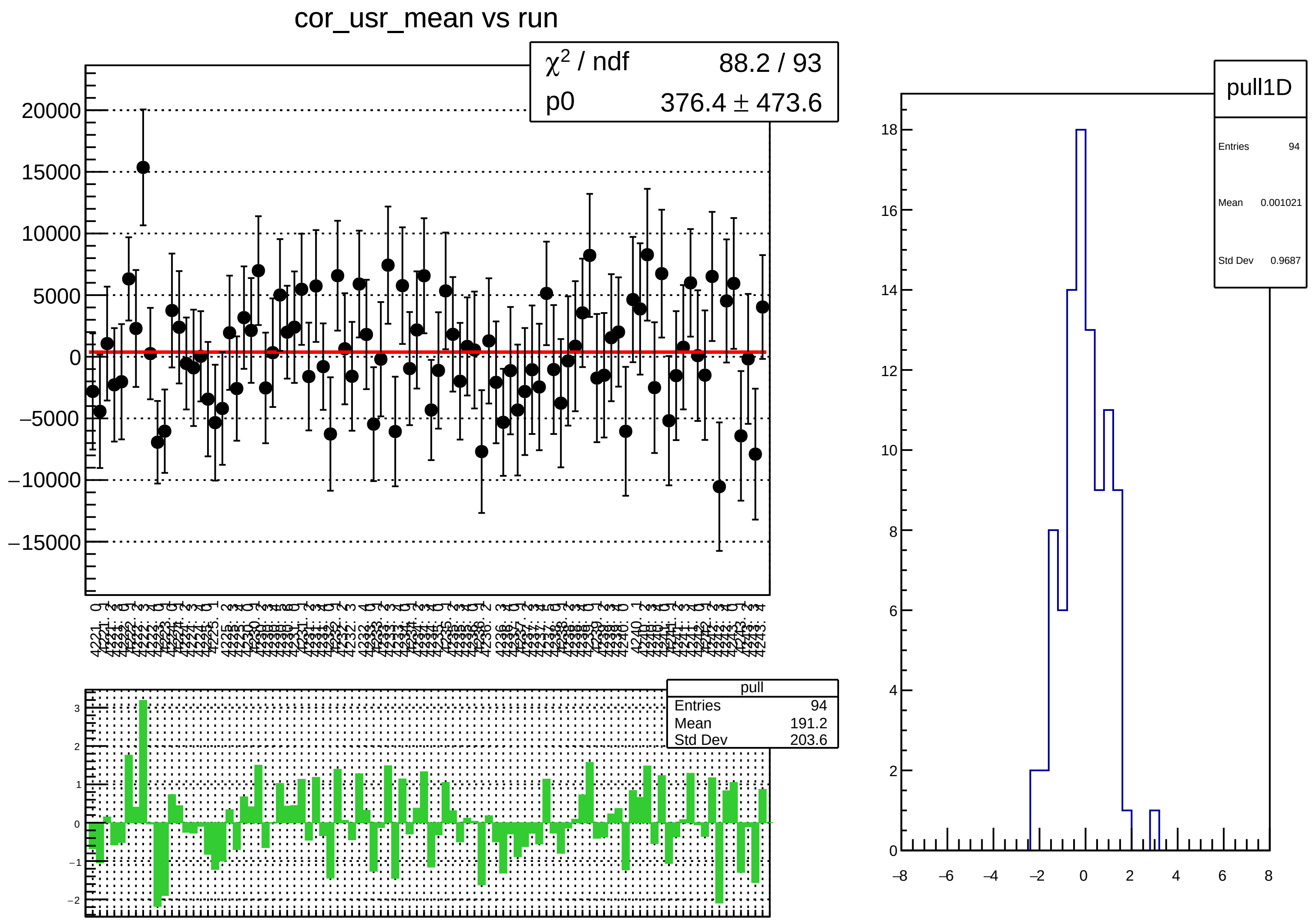

asym_right_dd_rms vs run
χ^2 / ndf 1783 / 93
p0 42.42 ± 0.03107
46
44
42
40
38



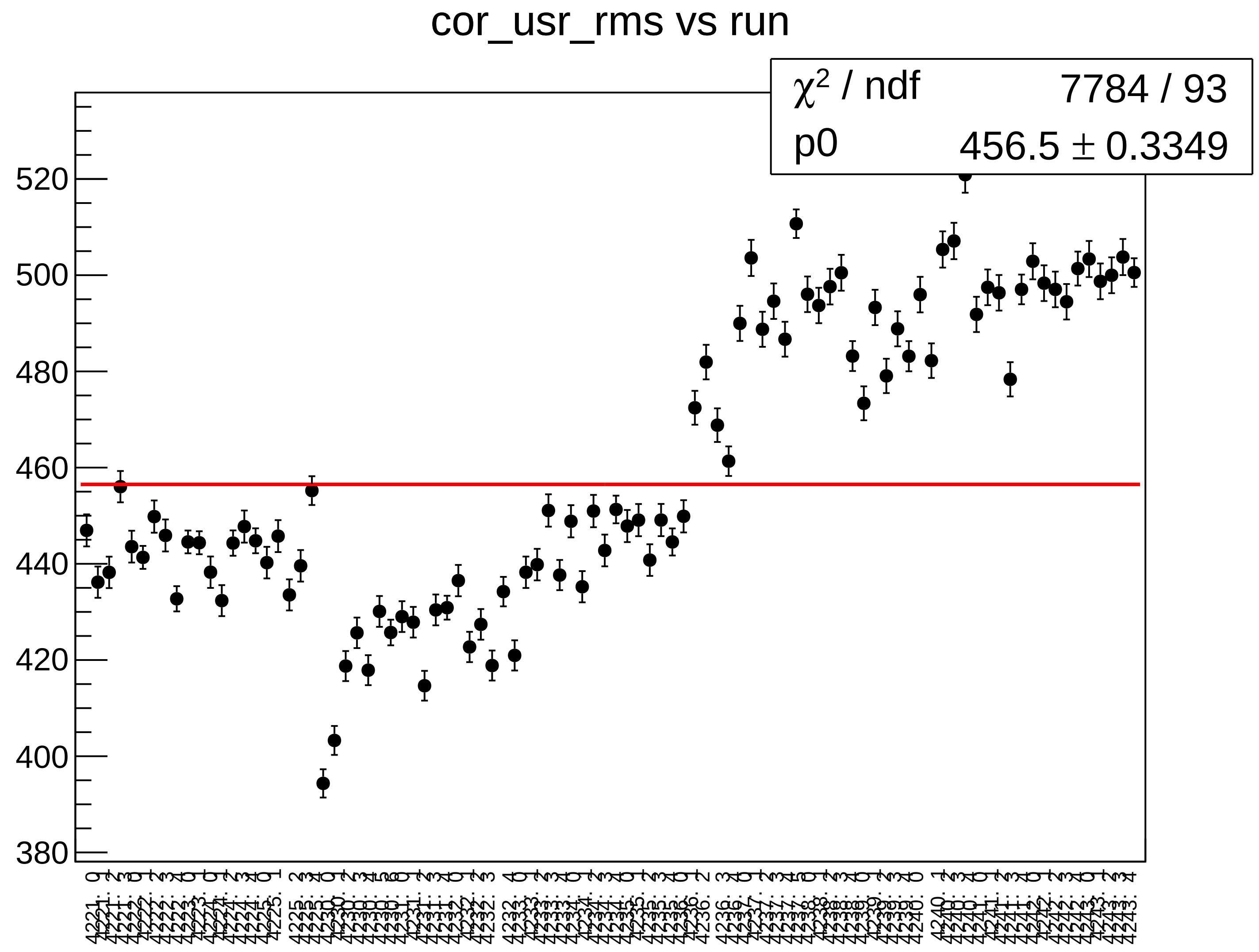
cor_usl_mean vs run
χ^2 / ndf 104.4 / 93
p0 706.9 ± 546.3
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 113.9
Std Dev 26.25
pull1D
Entries 94
Mean −0.009085
Std Dev 1.054

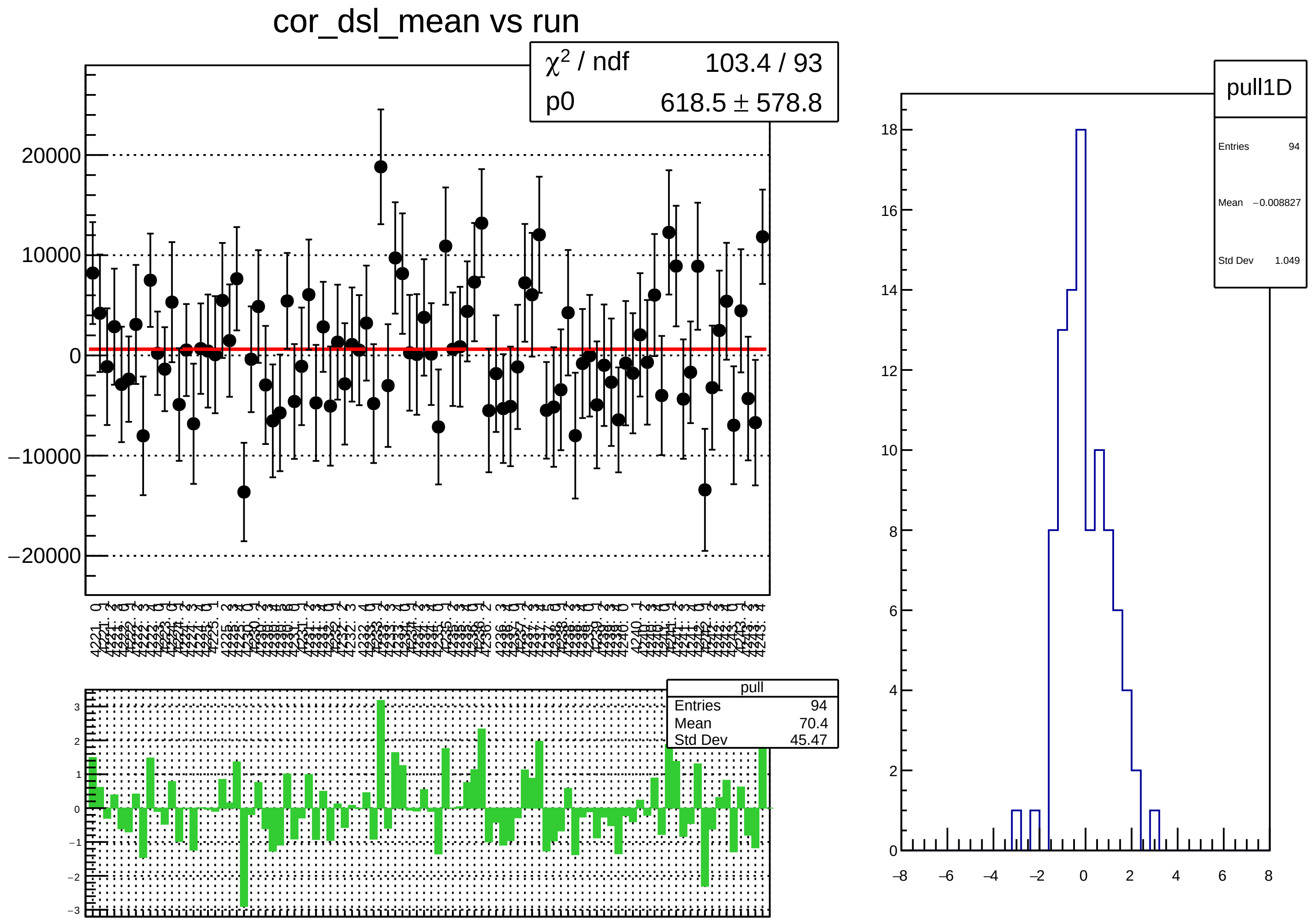


cor_usl_rms vs run
χ2 / ndf 3790 / 93
p0 527.2 ± 0.3863
580
560
540
520
500
480
460
440
420

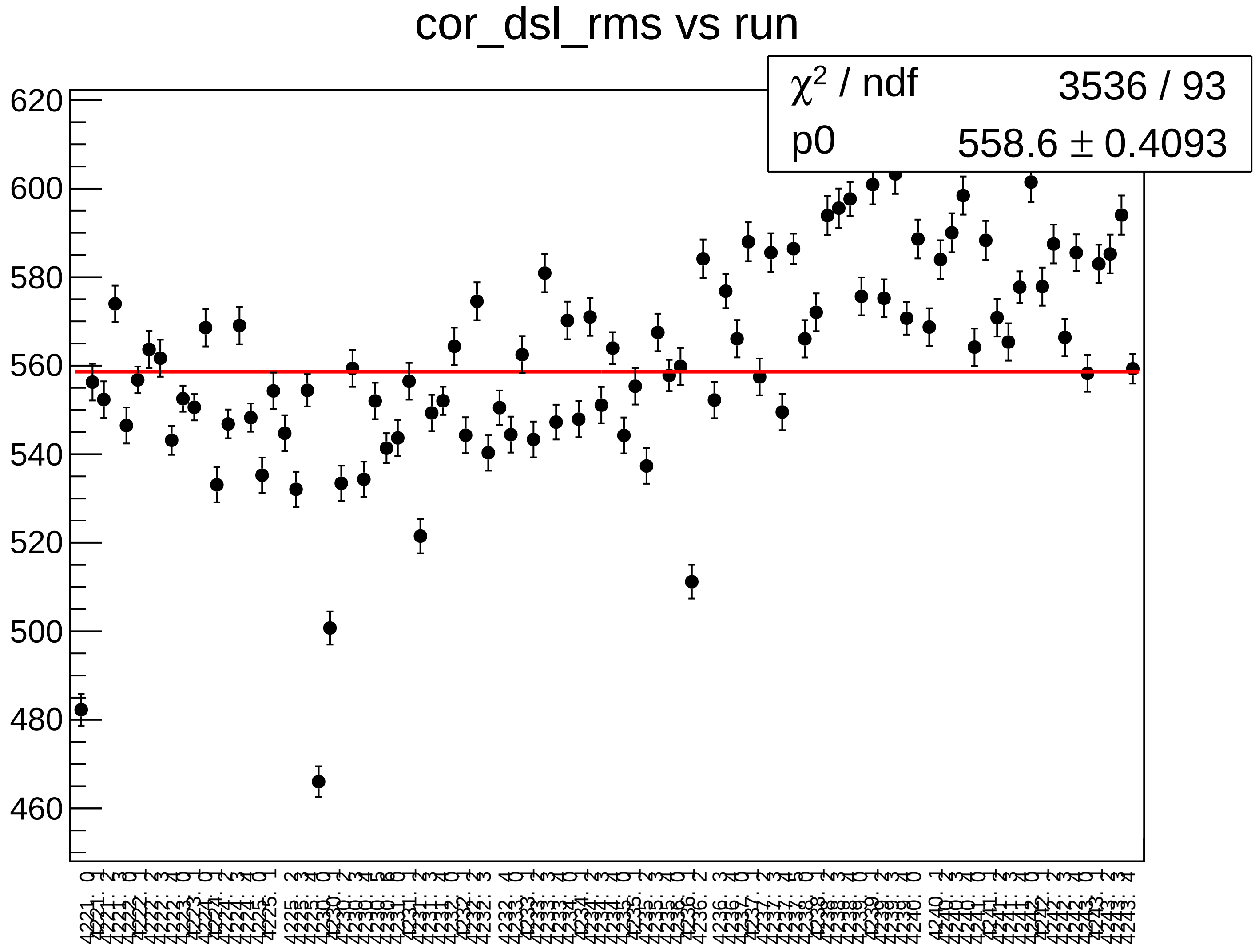


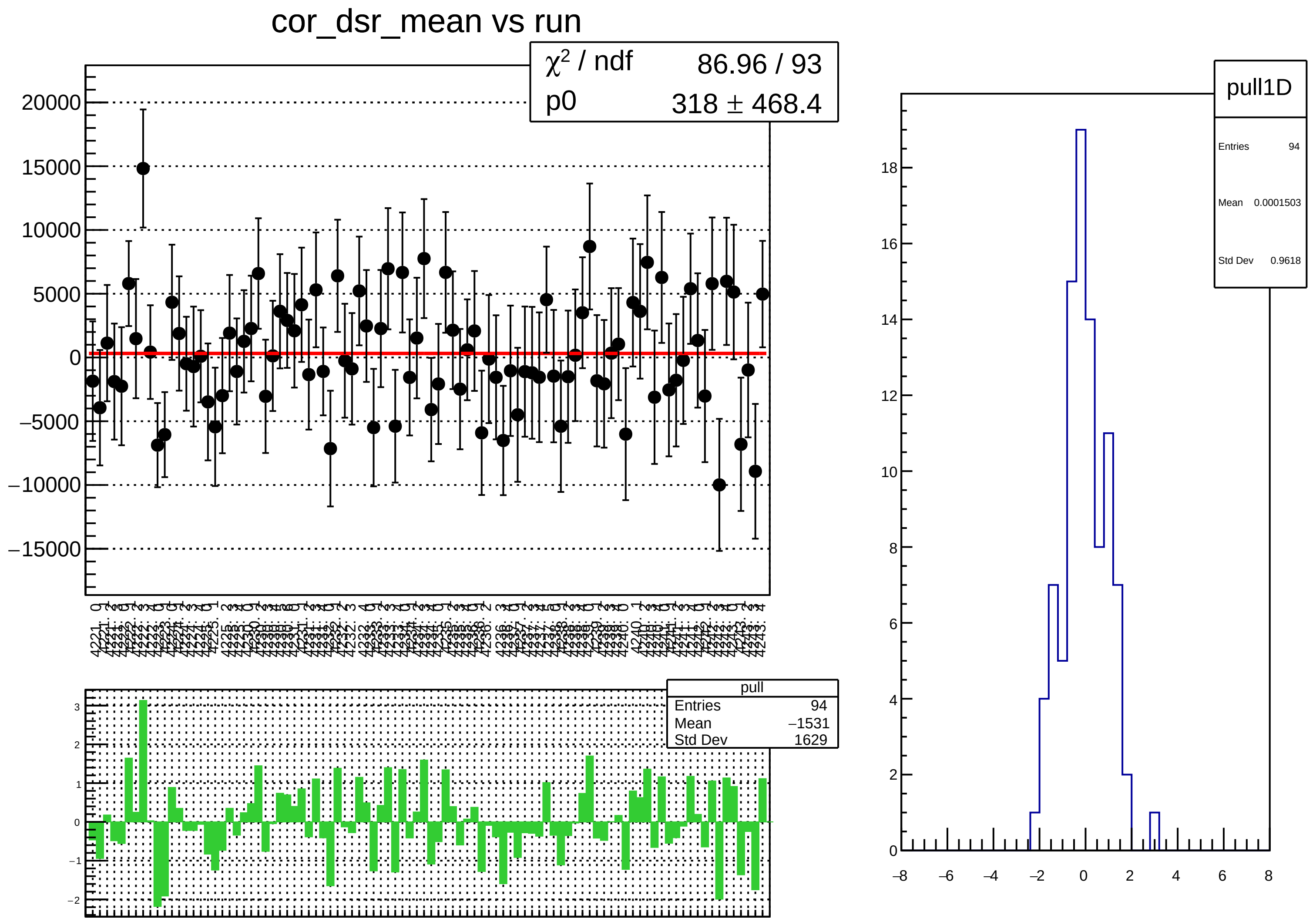
cor_usr_mean vs run
χ^2 / ndf 88.2 / 93
p0 376.4 ± 473.6
pull
Entries 94
Mean 191.2
Std Dev 203.6
pull1D
Entries 94
Mean 0.001021
Std Dev 0.9687


cor_usr_rms vs run
χ2 / ndf 7784 / 93
p0 456.5 ± 0.3349
520
500
480
460
440
420
400
380

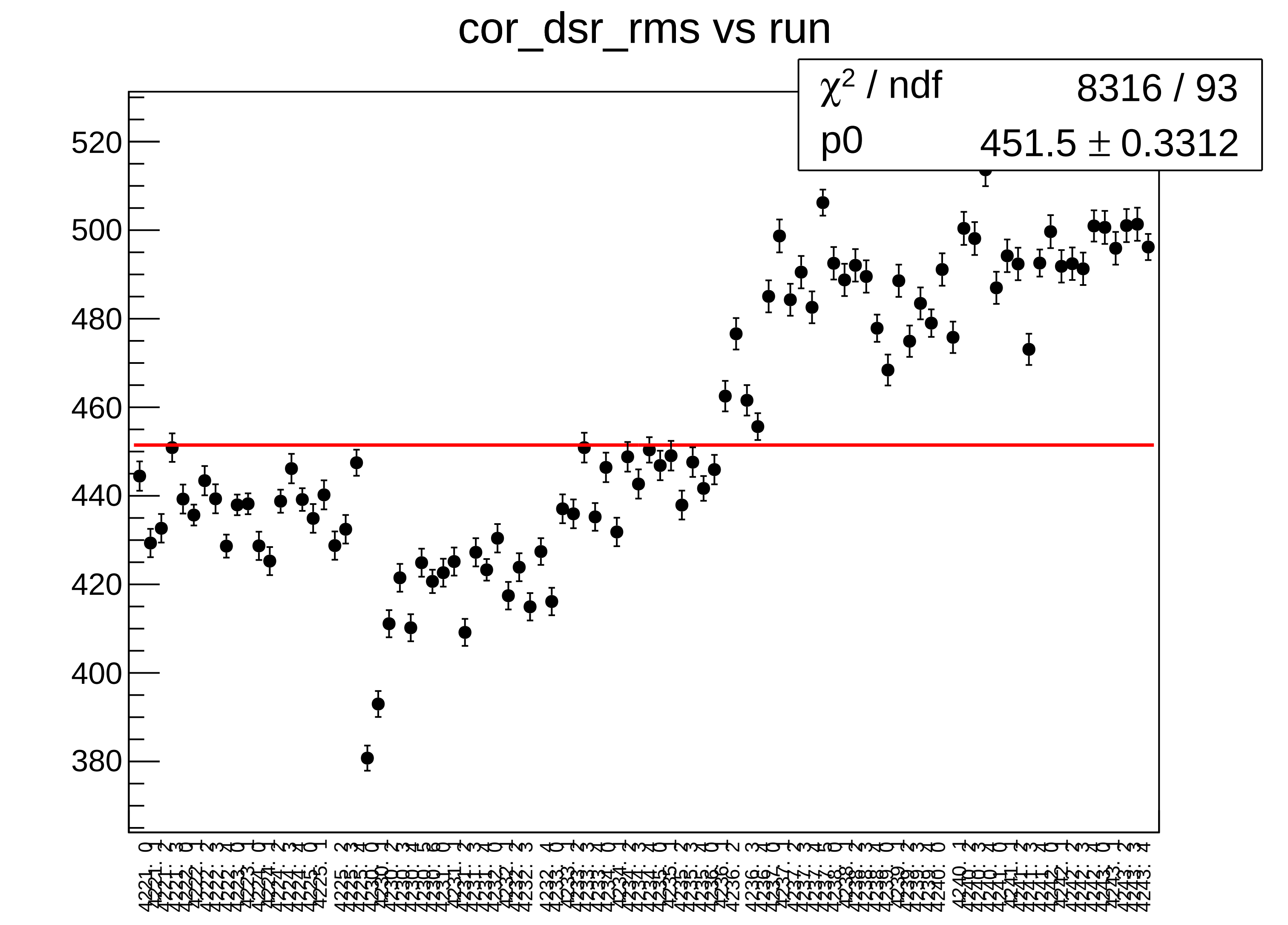


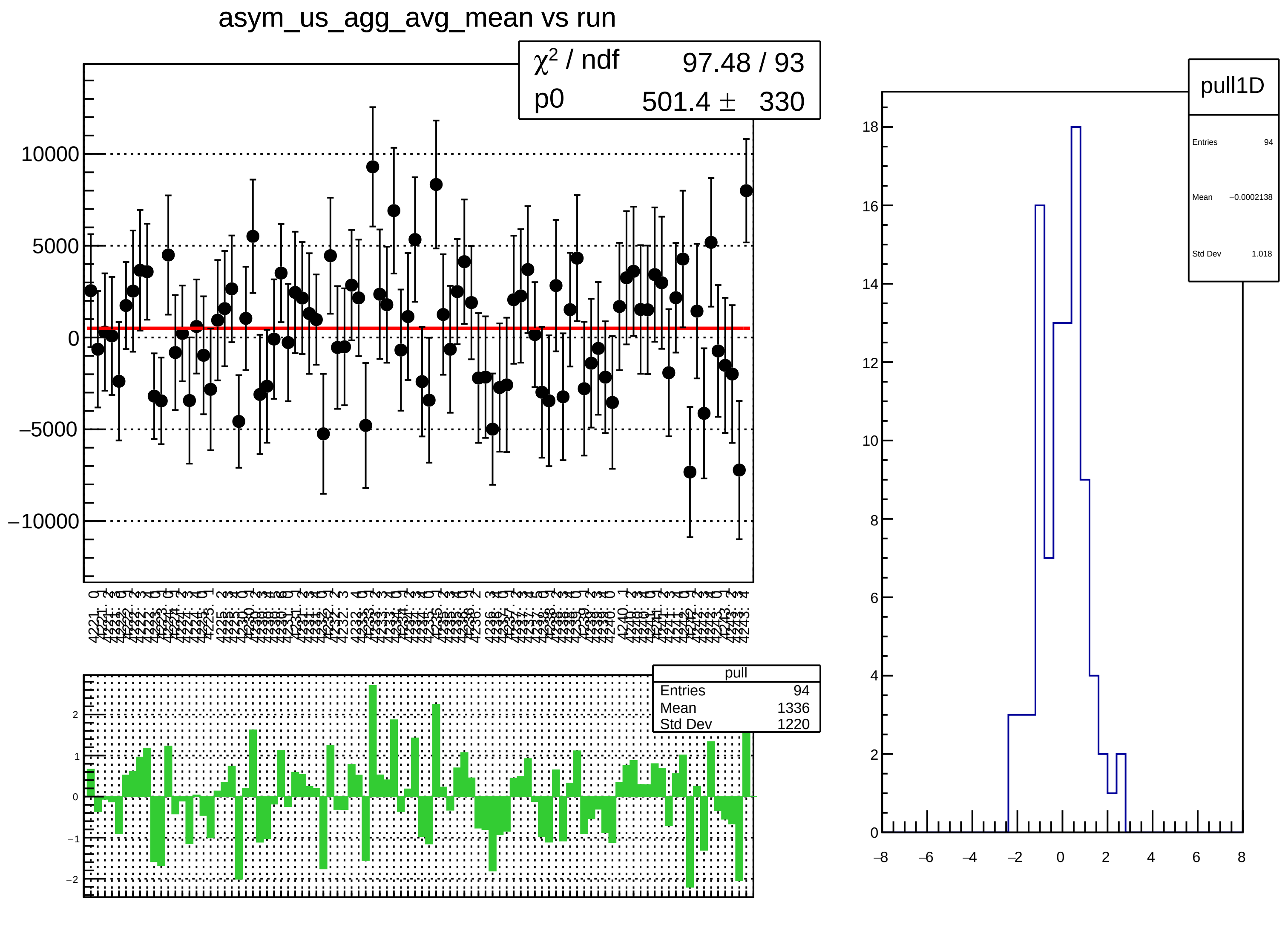
cor_dsl_mean vs run
χ^2 / ndf 103.4 / 93
p0 618.5 ± 578.8
pull
Entries 94
Mean 70.4
Std Dev 45.47
pull1D
Entries 94
Mean −0.008827
Std Dev 1.049


cor_dsl_rms vs run
χ² / ndf 3536 / 93
p0 558.6 ± 0.4093
620
600
580
560
540
520
500
480
460

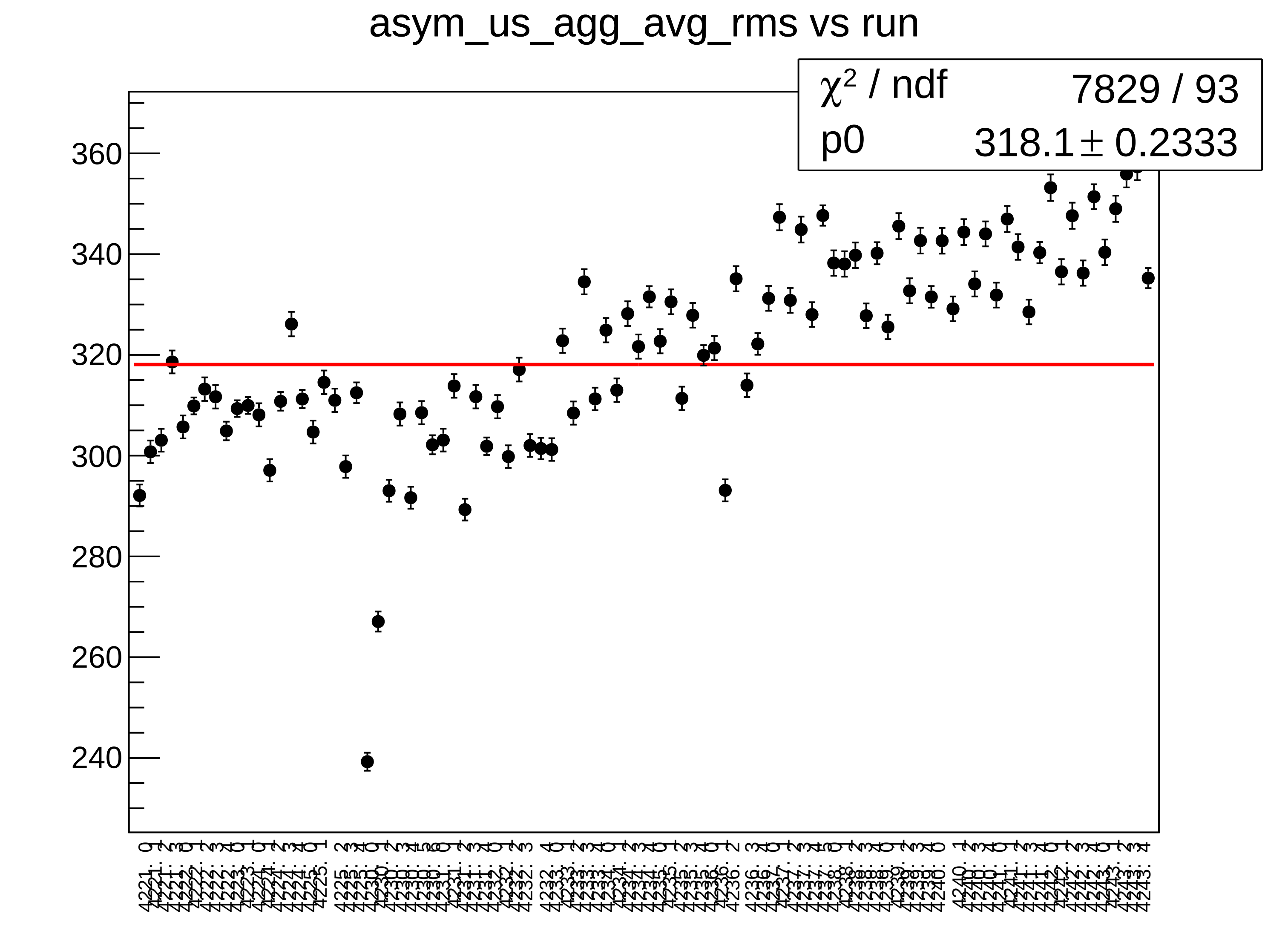


cor_dsr_mean vs run
χ^2 / ndf 86.96 / 93
p0 318 ± 468.4
pull
Entries 94
Mean −1531
Std Dev 1629
pull1D
Entries 94
Mean 0.0001503
Std Dev 0.9618

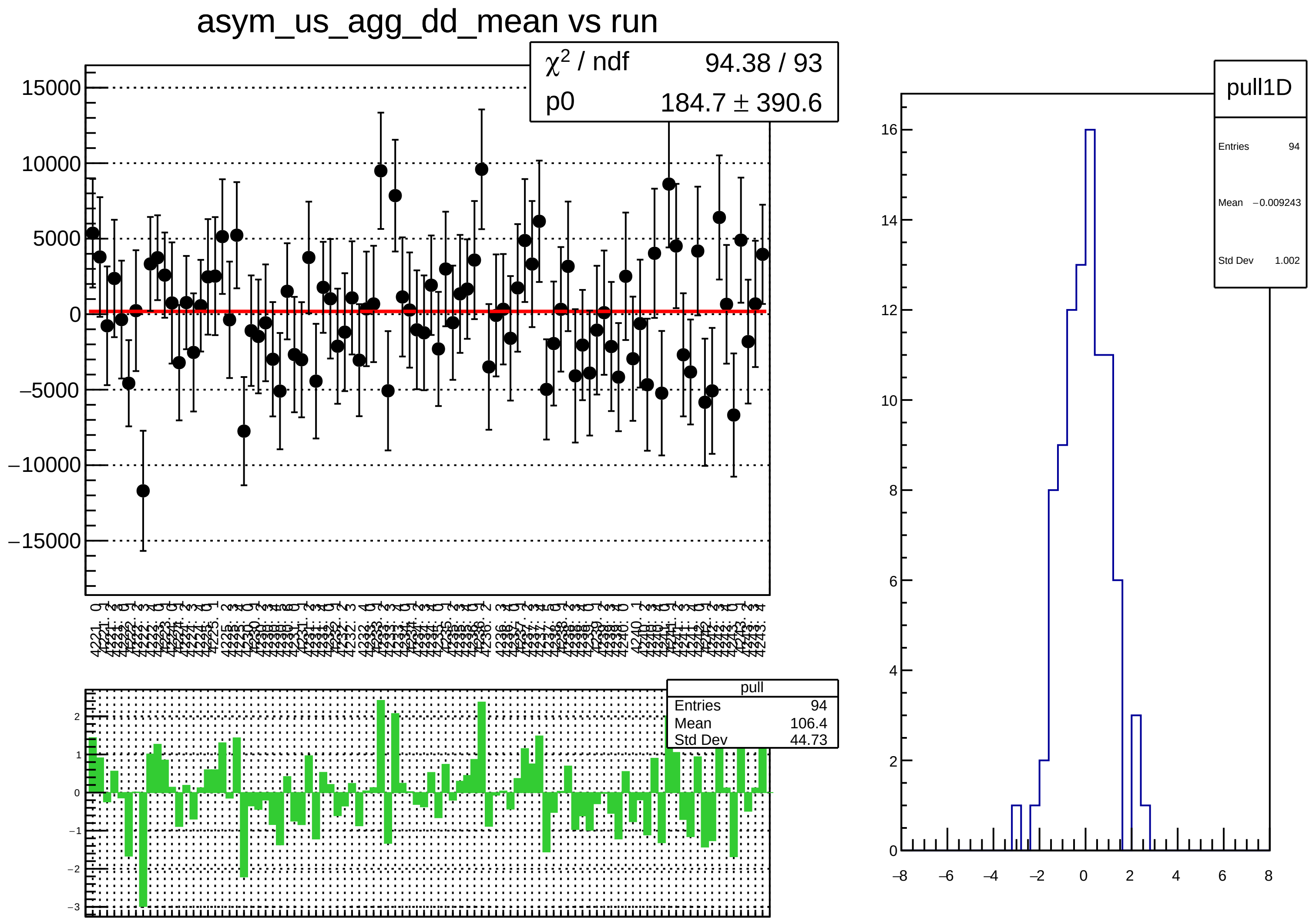

cor_dsr_rms vs run
χ2 / ndf 8316 / 93
p0 451.5 ± 0.3312
520
500
480
460
440
420
400
380



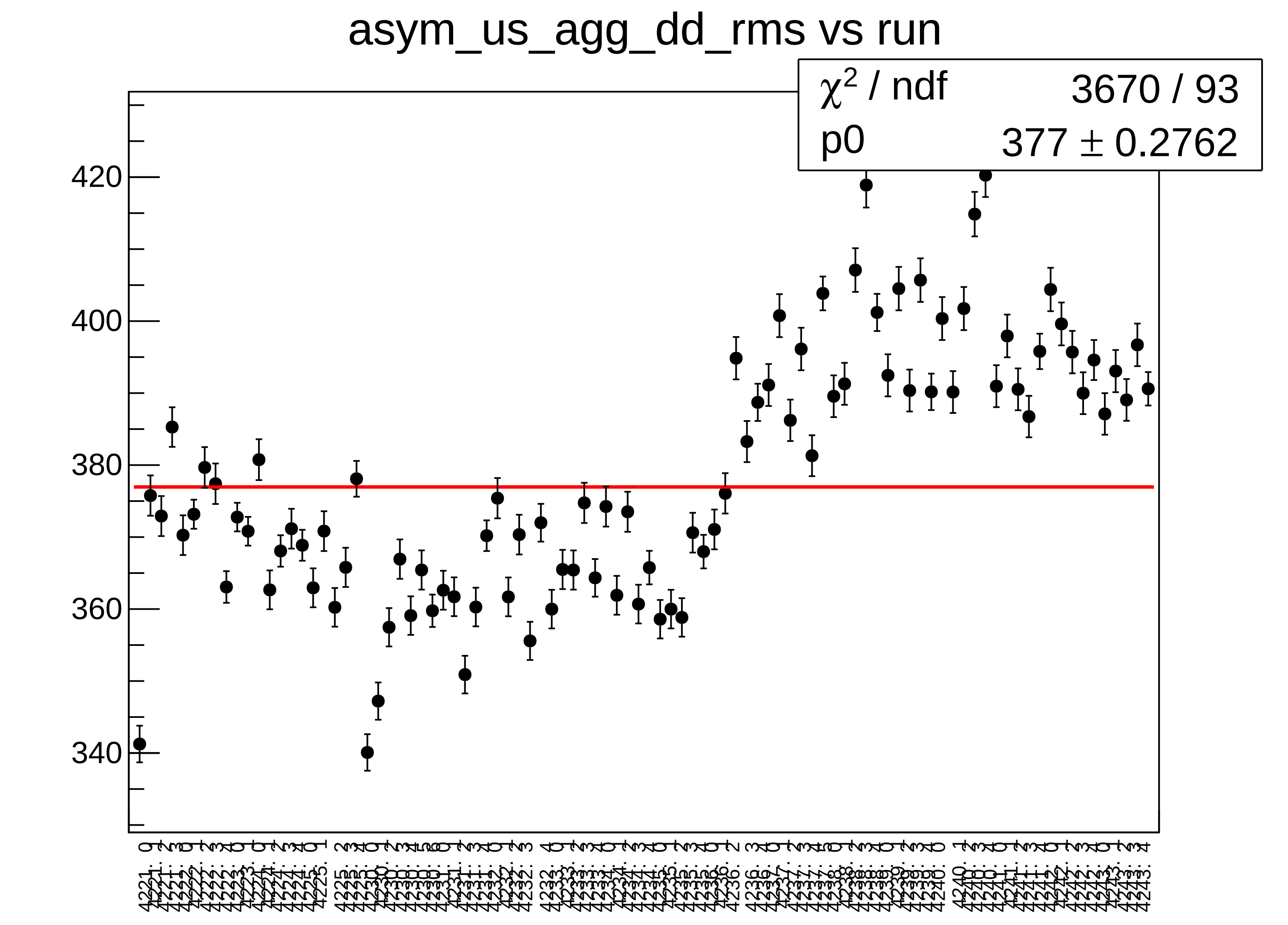
asym_us_agg_avg_mean vs run
χ^2 / ndf 97.48 / 93
p0 501.4 ± 330
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 1336
Std Dev 1220
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.0002138
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

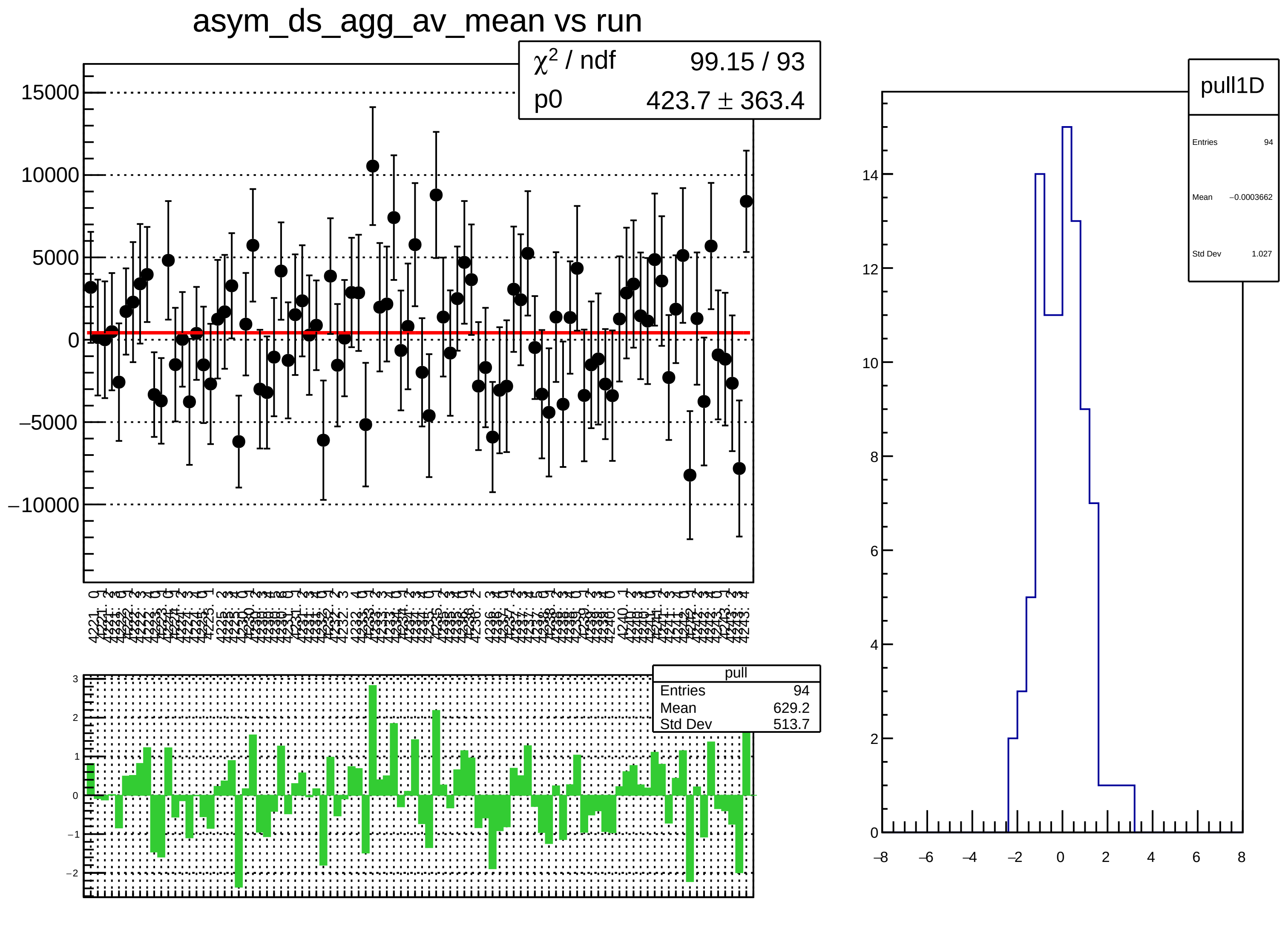


asym_us_agg_avg_rms vs run
χ^2 / ndf 7829 / 93
p0 318.1 ± 0.2333
360
340
320
300
280
260
240

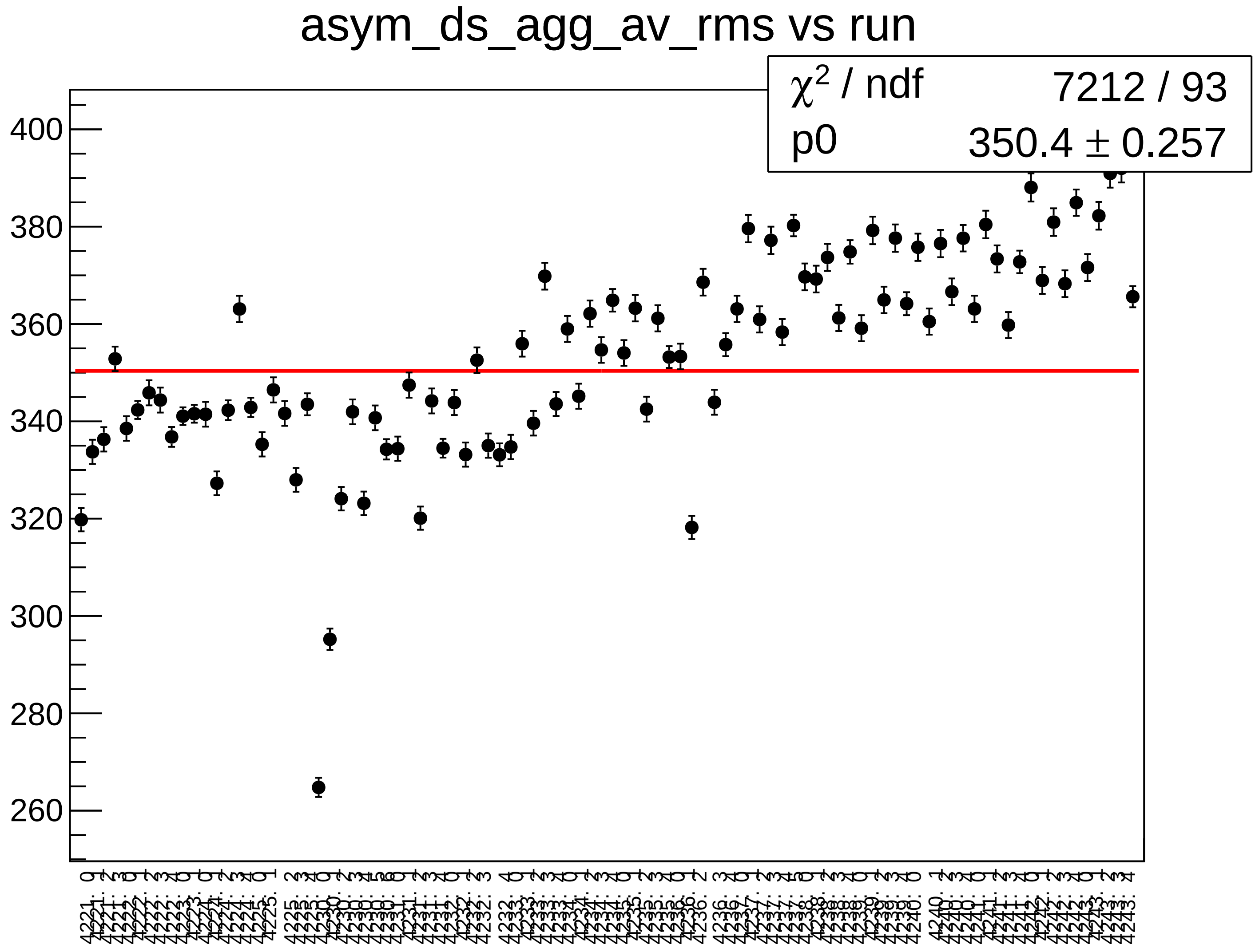


asym_us_agg_dd_mean vs run
χ2 / ndf 94.38 / 93
p0 184.7 ± 390.6
pull
Entries 94
Mean 106.4
Std Dev 44.73
pull1D
Entries 94
Mean −0.009243
Std Dev 1.002

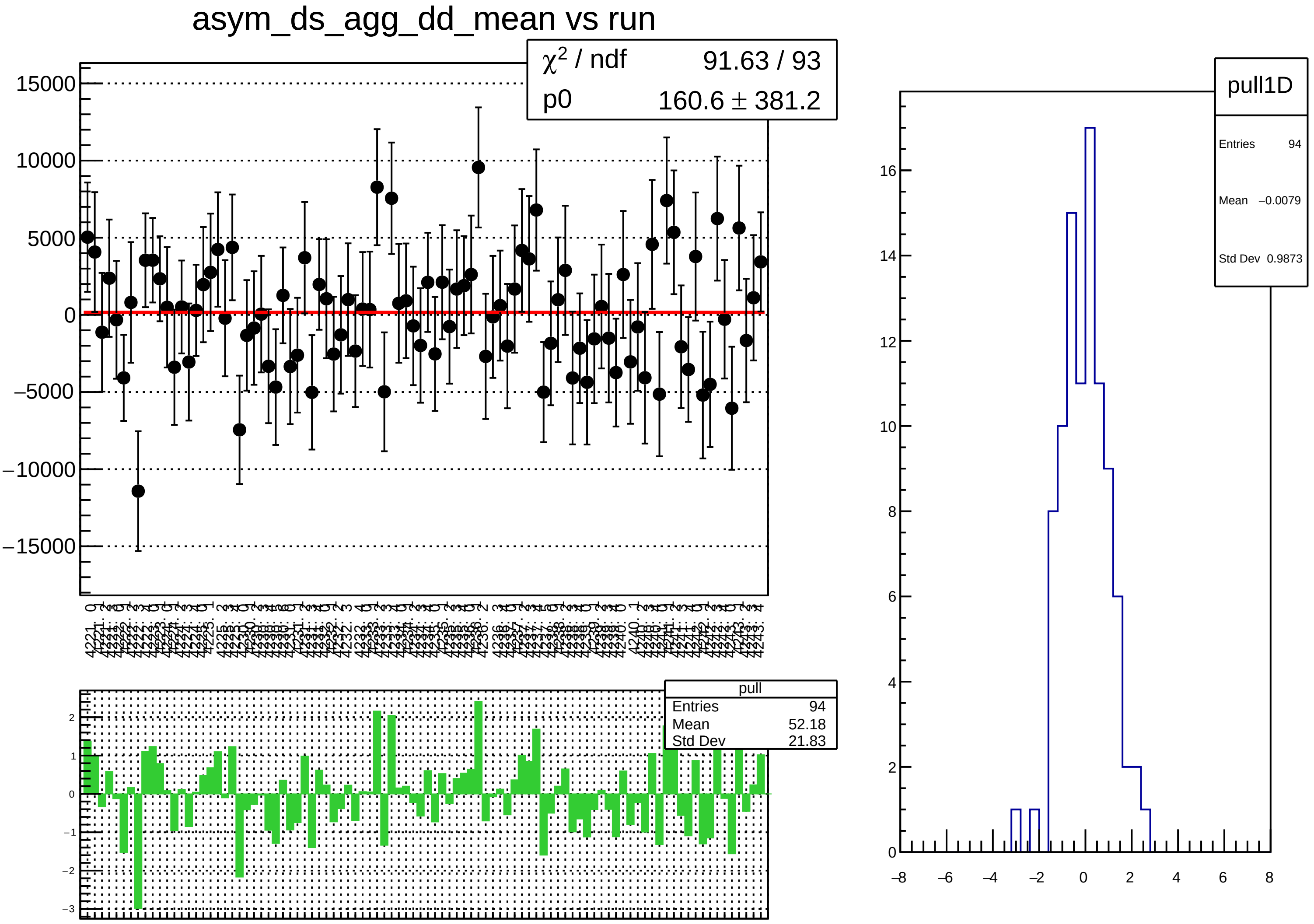

asym_us_agg_dd_rms vs run
χ^2 / ndf 3670 / 93
p0 377 ± 0.2762
420
400
380
360
340



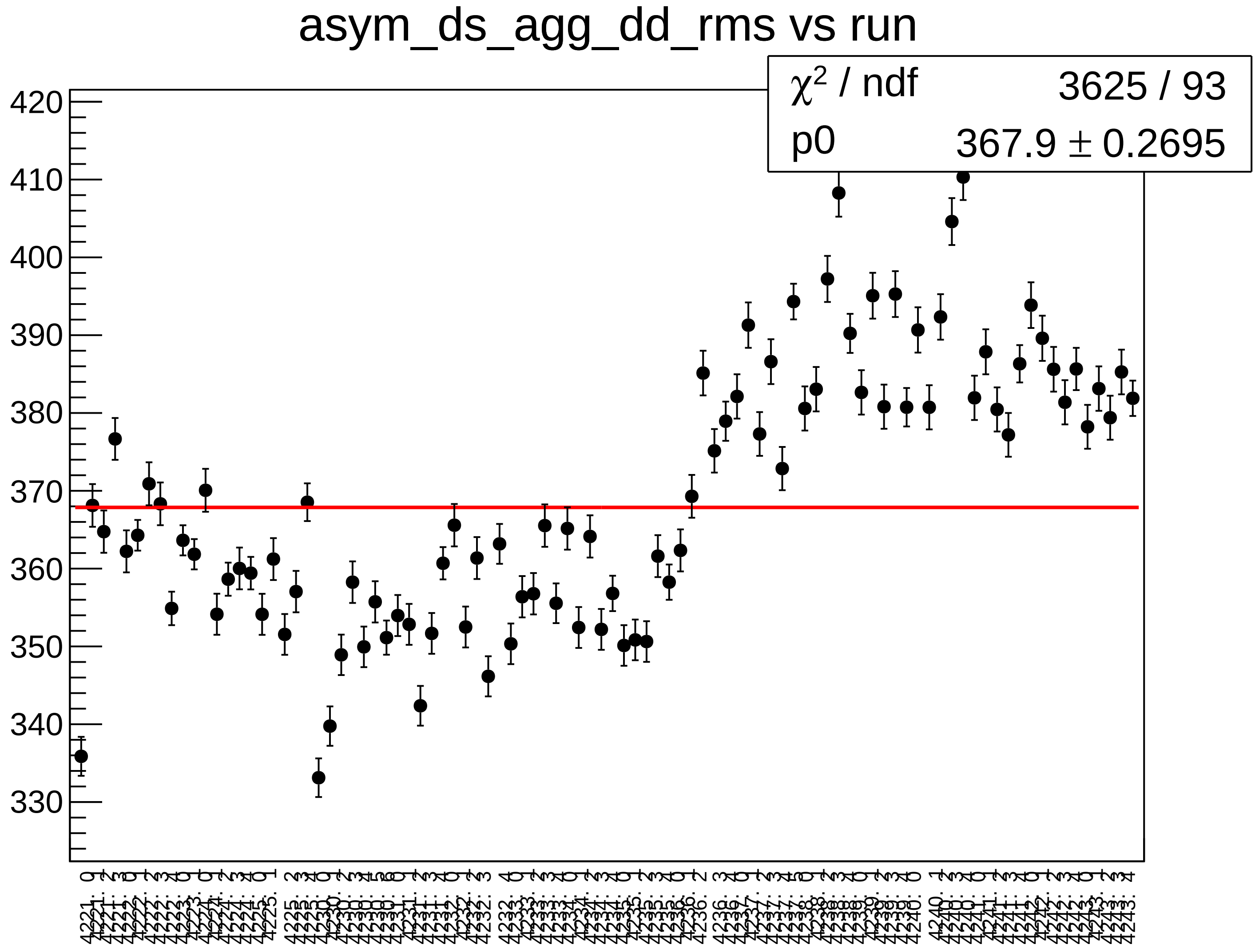
asym_ds_agg_av_mean vs run
χ2 / ndf 99.15 / 93
p0 423.7 ± 363.4
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 629.2
Std Dev 513.7
pull1D
Entries 94
Mean −0.0003662
Std Dev 1.027



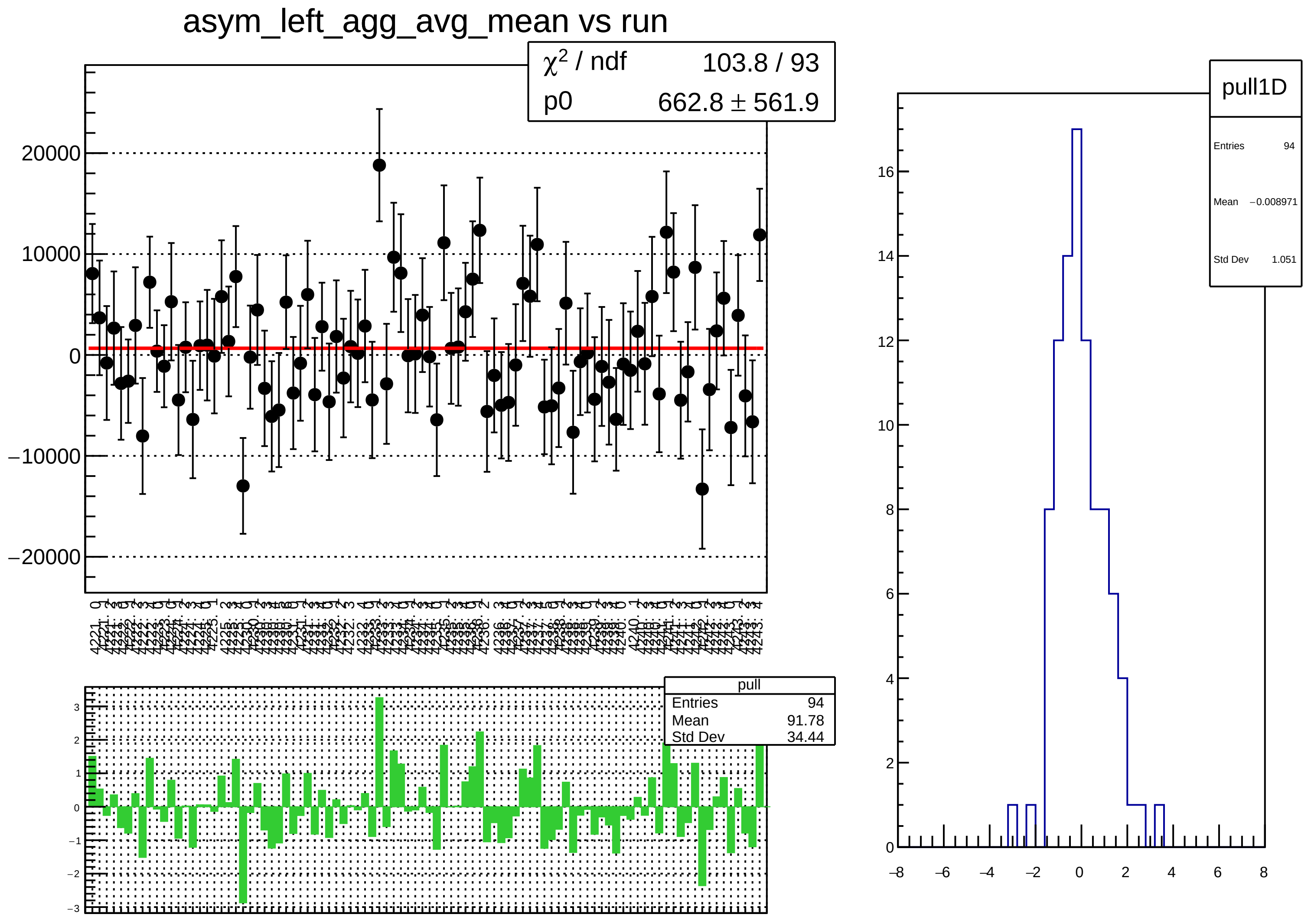
asym_ds_agg_av_rms vs run
χ^2 / ndf 7212 / 93
p0 350.4 ± 0.257
400
380
360
340
320
300
280
260



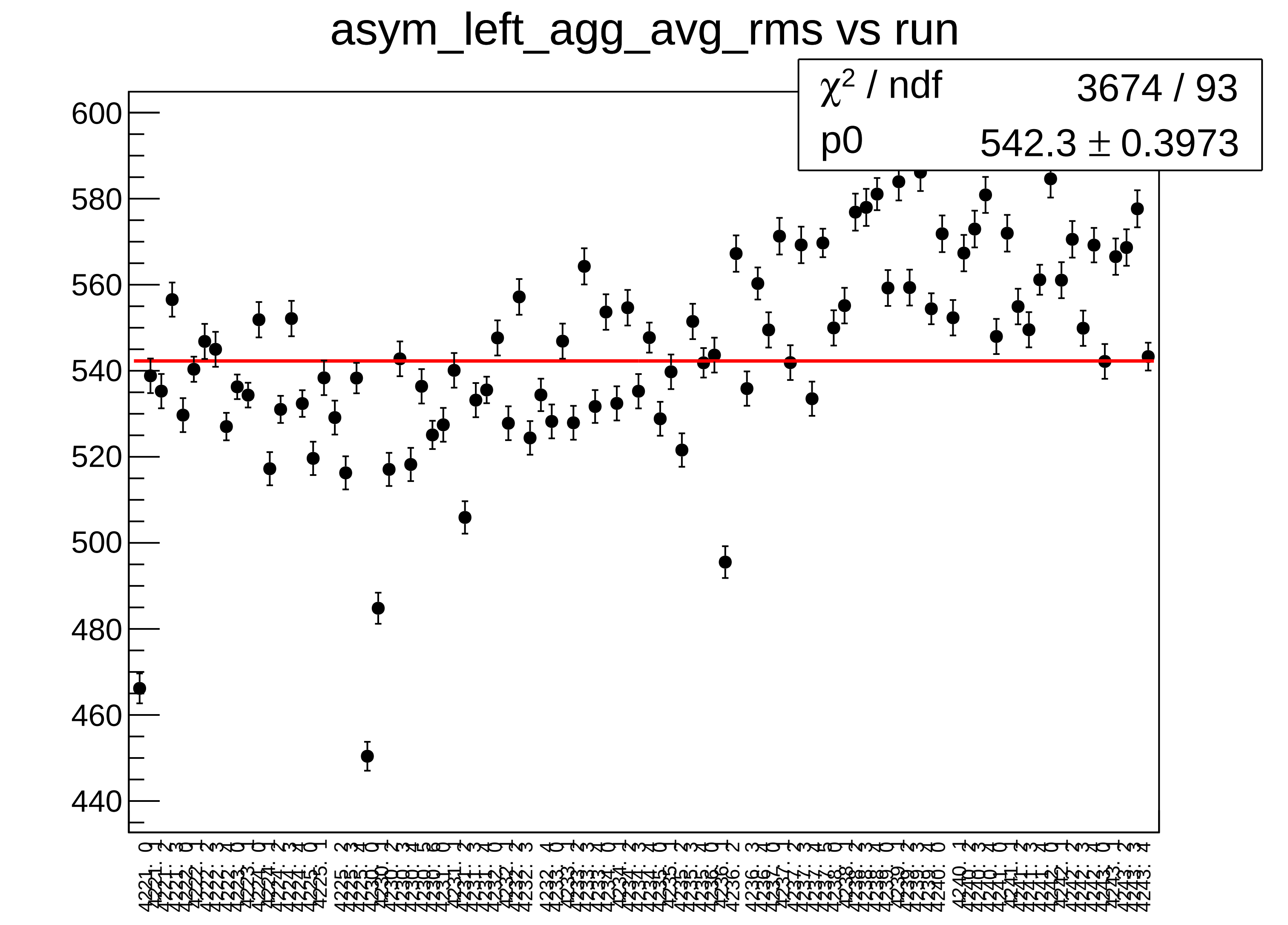
asym_ds_agg_dd_mean vs run
χ^2 / ndf 91.63 / 93
p0 160.6 ± 381.2
pull
Entries 94
Mean 52.18
Std Dev 21.83
pull1D
Entries 94
Mean −0.0079
Std Dev 0.9873



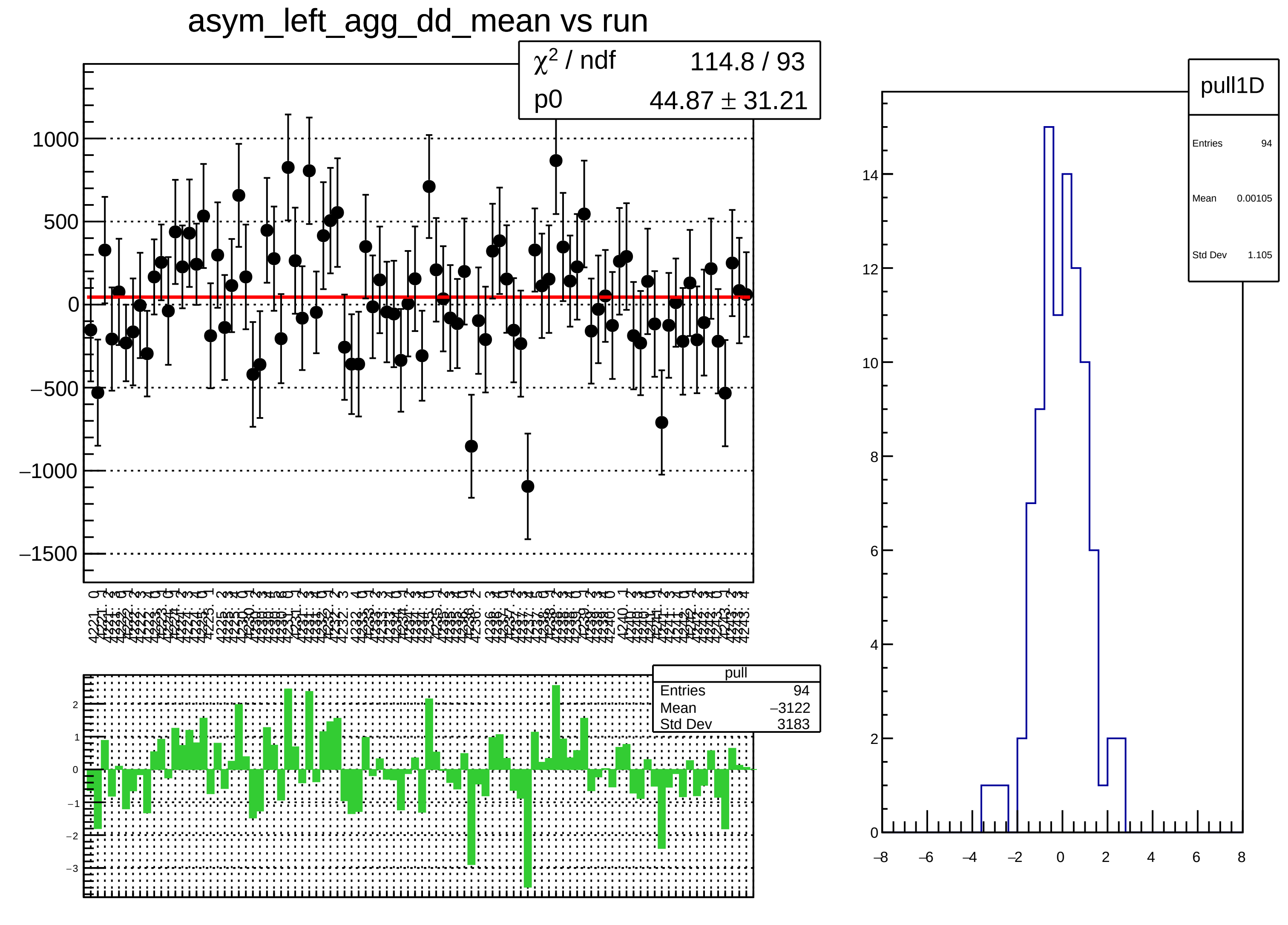
asym_ds_agg_dd_rms vs run
χ^2 / ndf 3625 / 93
p0 367.9 ± 0.2695
420
410
400
390
380
370
360
350
340
330



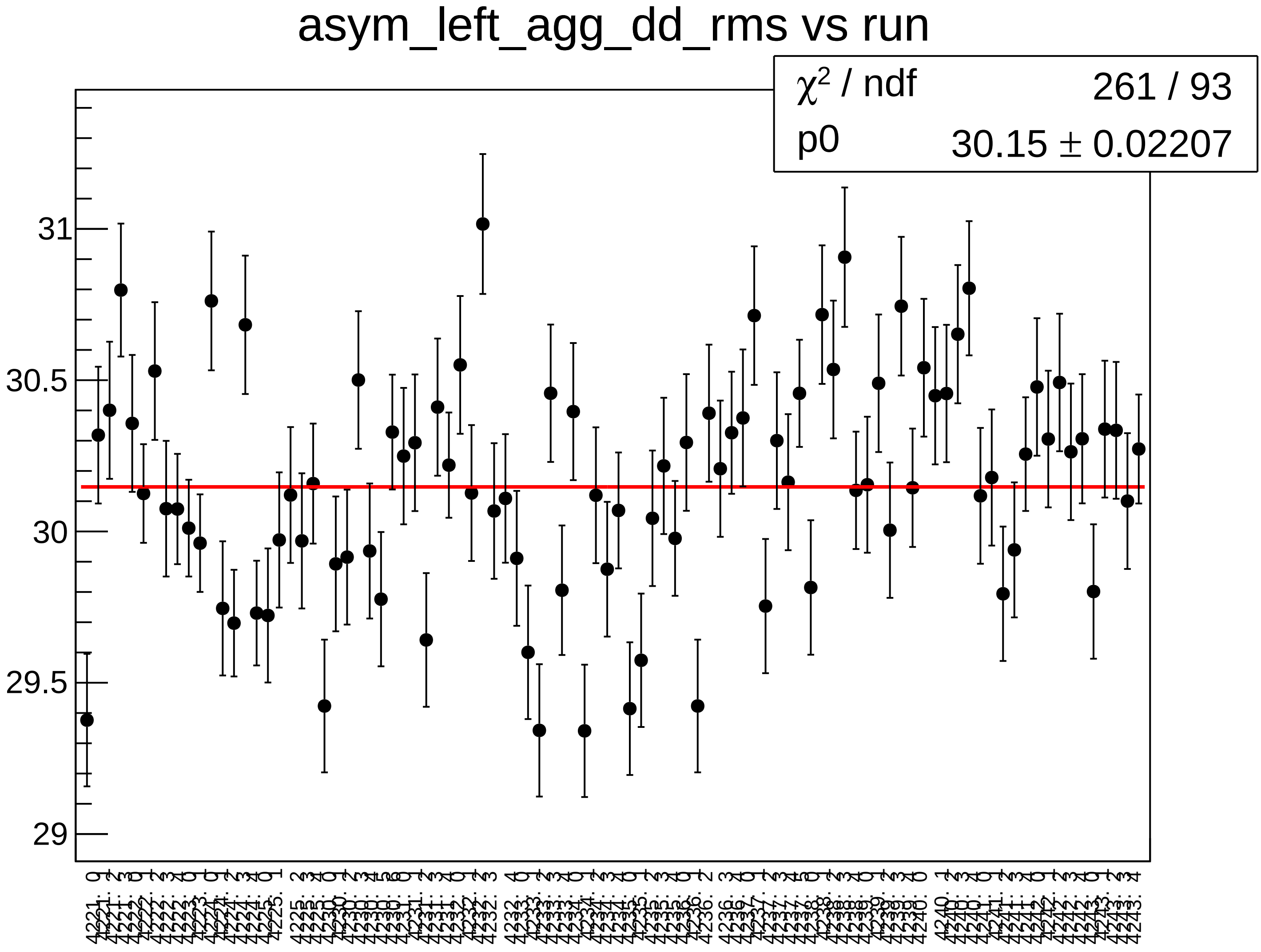
asym_left_agg_avg_mean vs run
χ^2 / ndf 103.8 / 93
p0 662.8 ± 561.9
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 91.78
Std Dev 34.44
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.008971
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



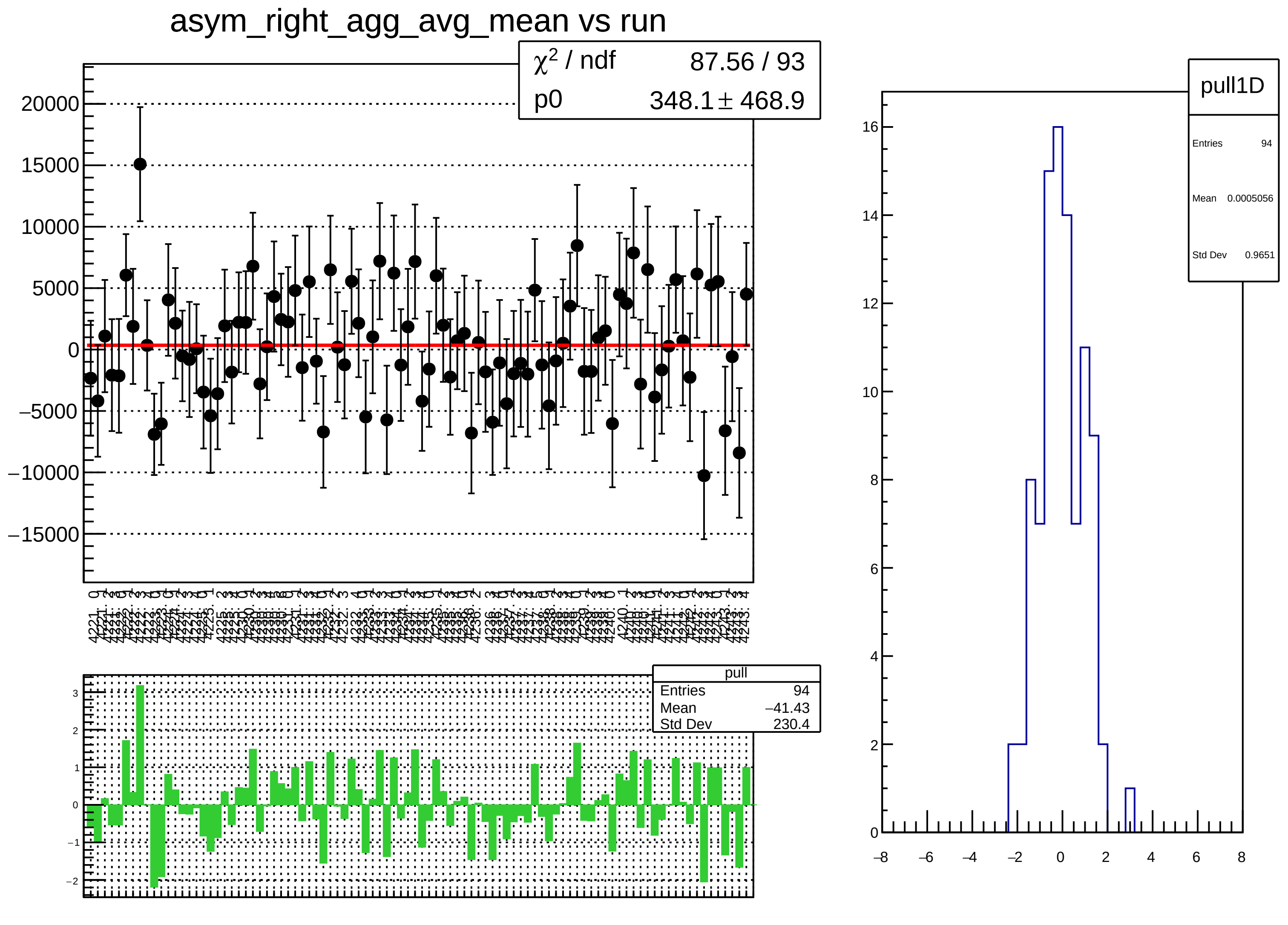
asym_left_agg_avg_rms vs run
χ^2 / ndf 3674 / 93
p0 542.3 ± 0.3973

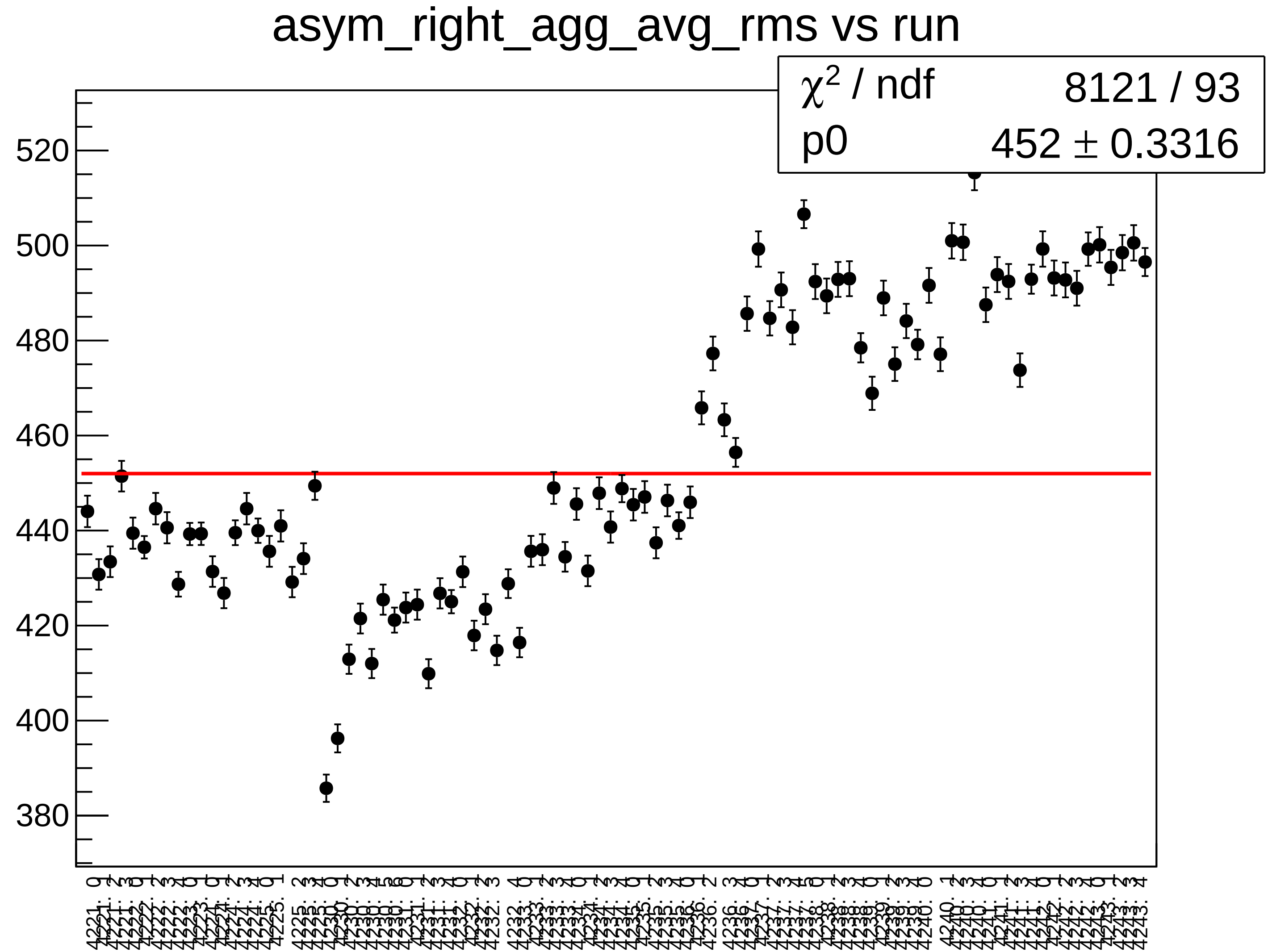


asym_left_agg_dd_mean vs run
χ^2 / ndf 114.8 / 93
p0 44.87 ± 31.21
pull
Entries 94
Mean −3122
Std Dev 3183
pull1D
Entries 94
Mean 0.00105
Std Dev 1.105

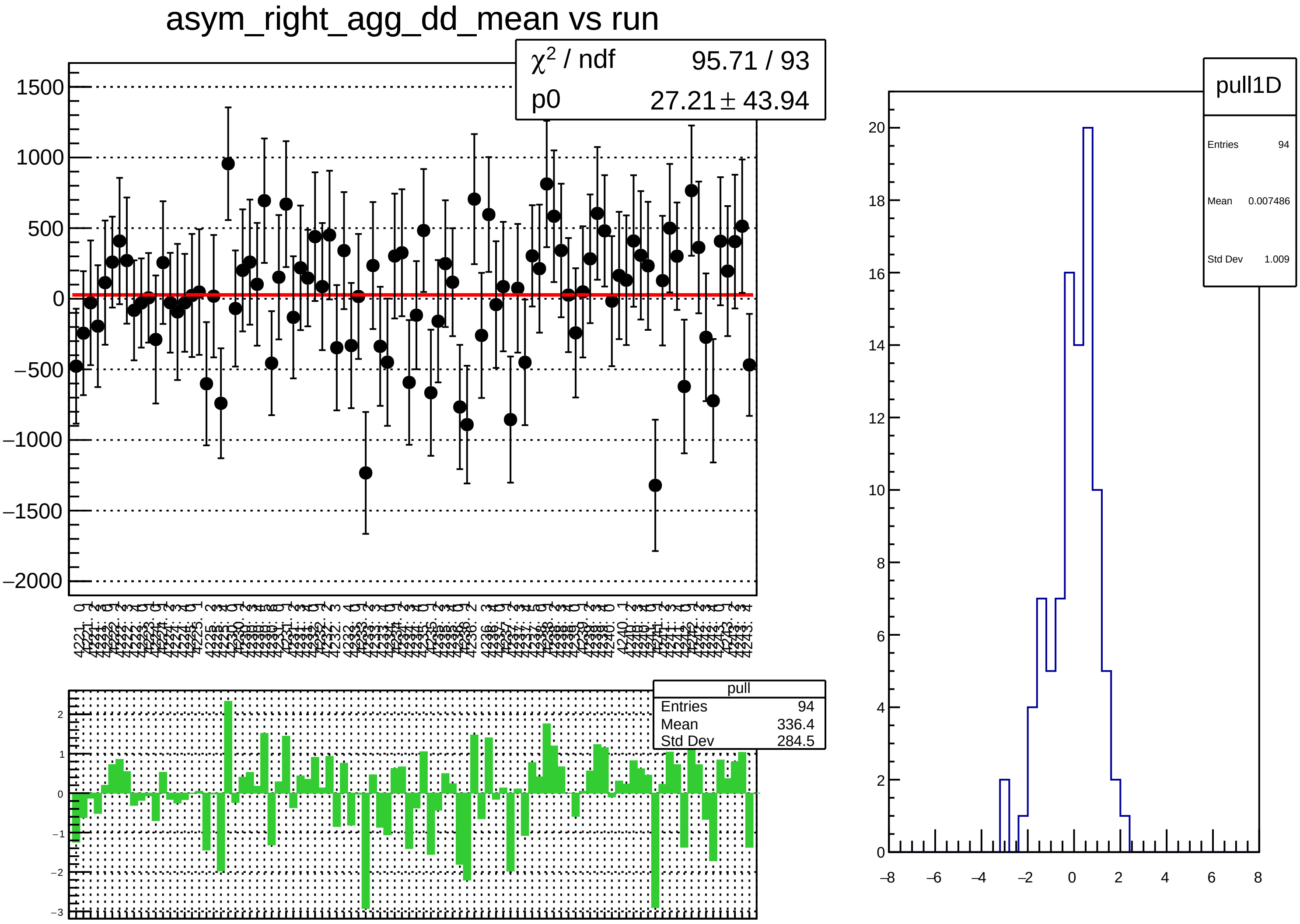


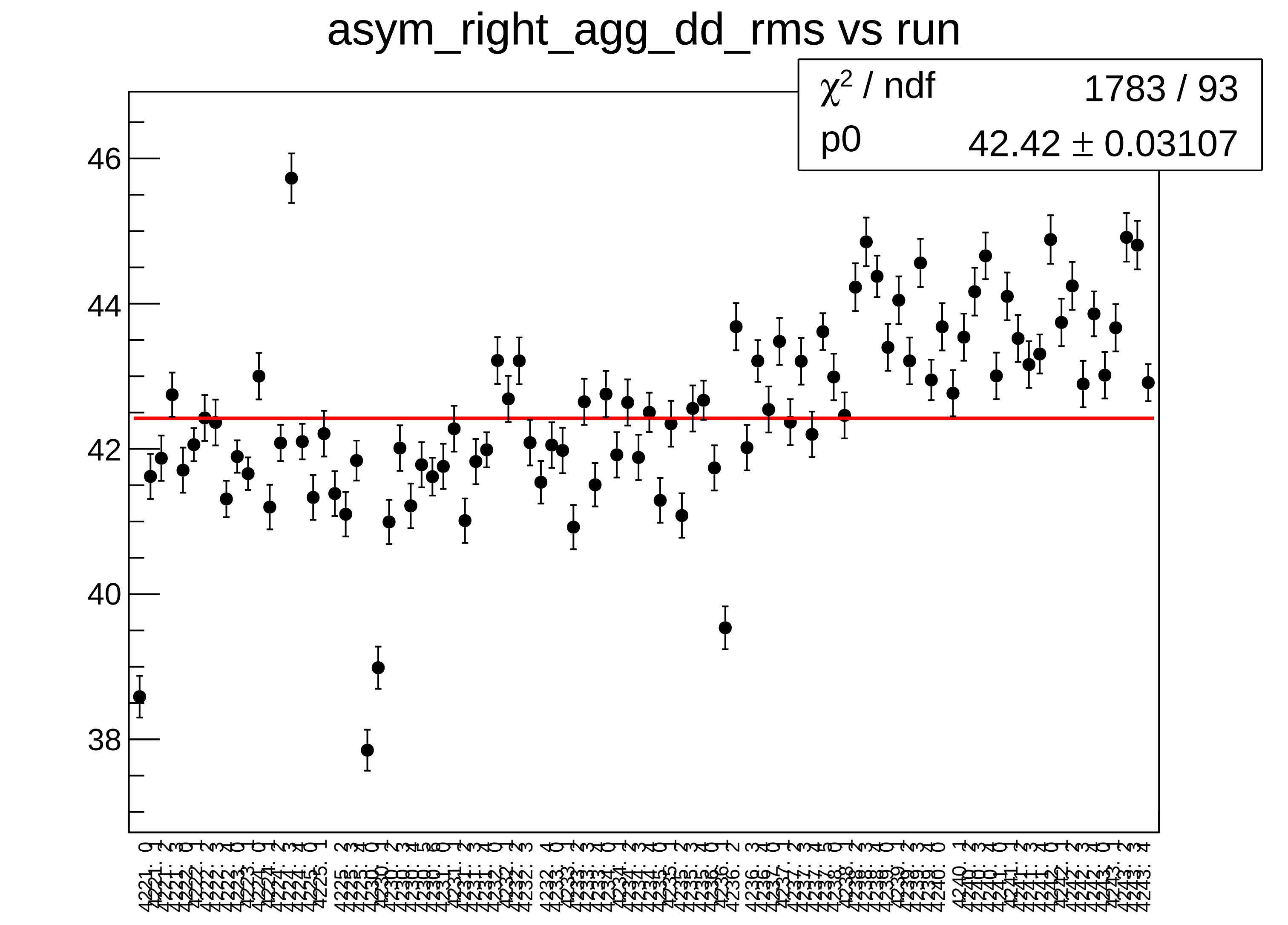
asym_left_agg_dd_rms vs run
χ2 / ndf 261 / 93
p0 30.15 ± 0.02207
31
30.5
30
29.5
29


asym_right_agg_avg_mean vs run
χ² / ndf 87.56 / 93
p0 348.1 ± 468.9
pull
Entries 94
Mean −41.43
Std Dev 230.4
pull1D
Entries 94
Mean 0.0005056
Std Dev 0.9651

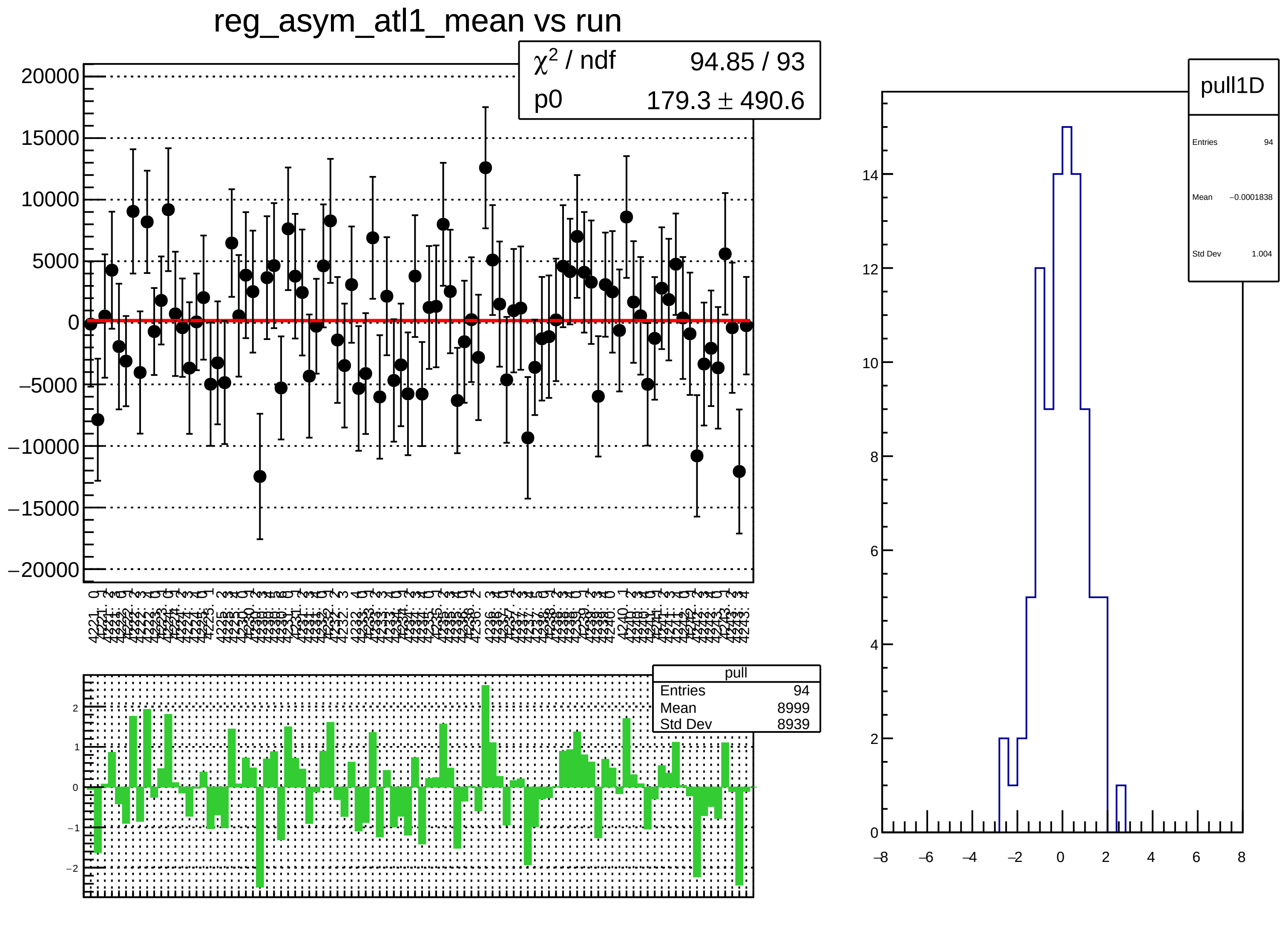


asym_right_agg_avg_rms vs run
χ^2 / ndf 8121 / 93
p0 452 ± 0.3316
520
500
480
460
440
420
400
380

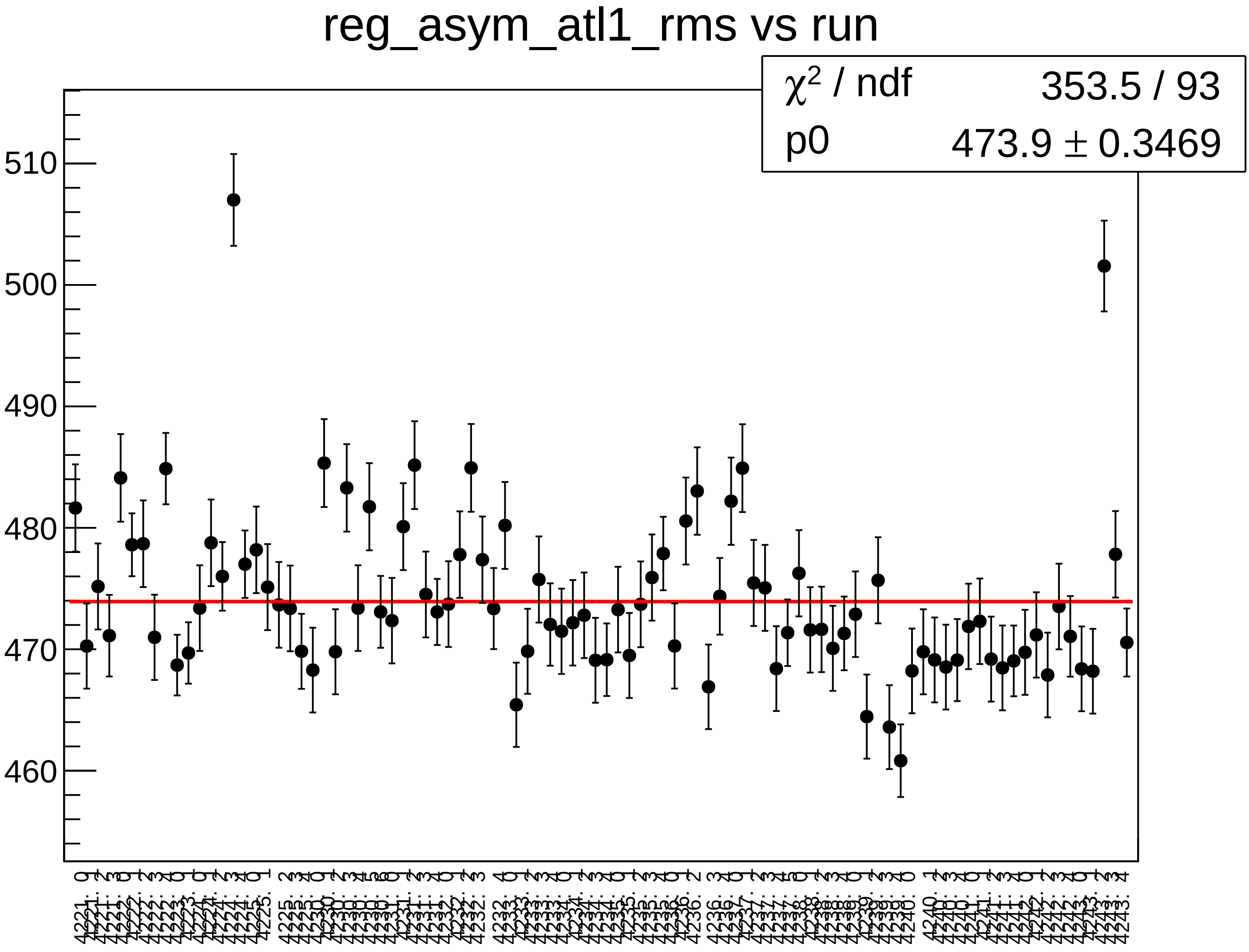

asym_right_agg_dd_mean vs run
χ2 / ndf 95.71 / 93
p0 27.21 ± 43.94
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 94
Mean 336.4
Std Dev 284.5
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.007486
Std Dev 1.009
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



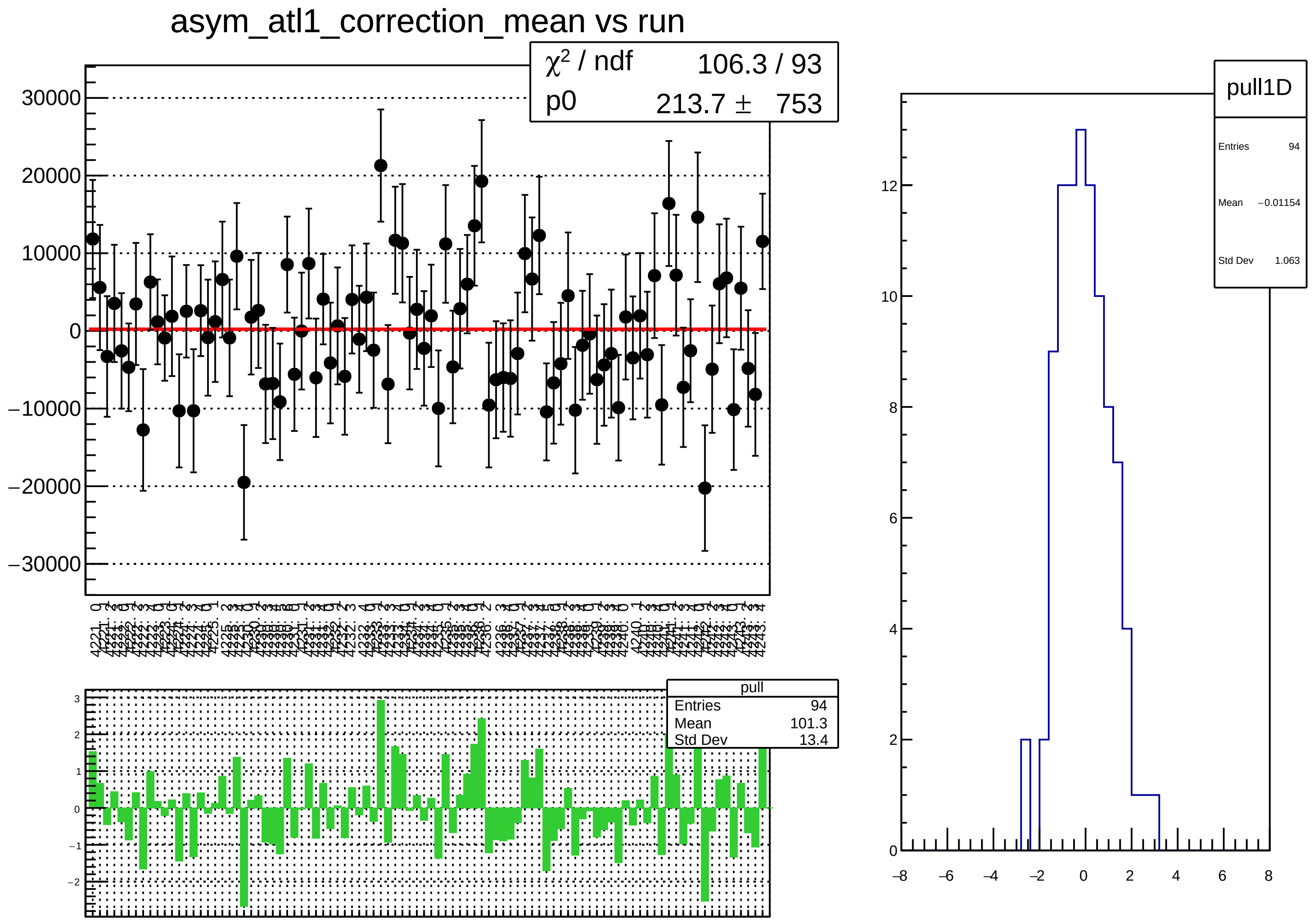
asym_right_agg_dd_rms vs run
χ² / ndf 1783 / 93
p0 42.42 ± 0.03107



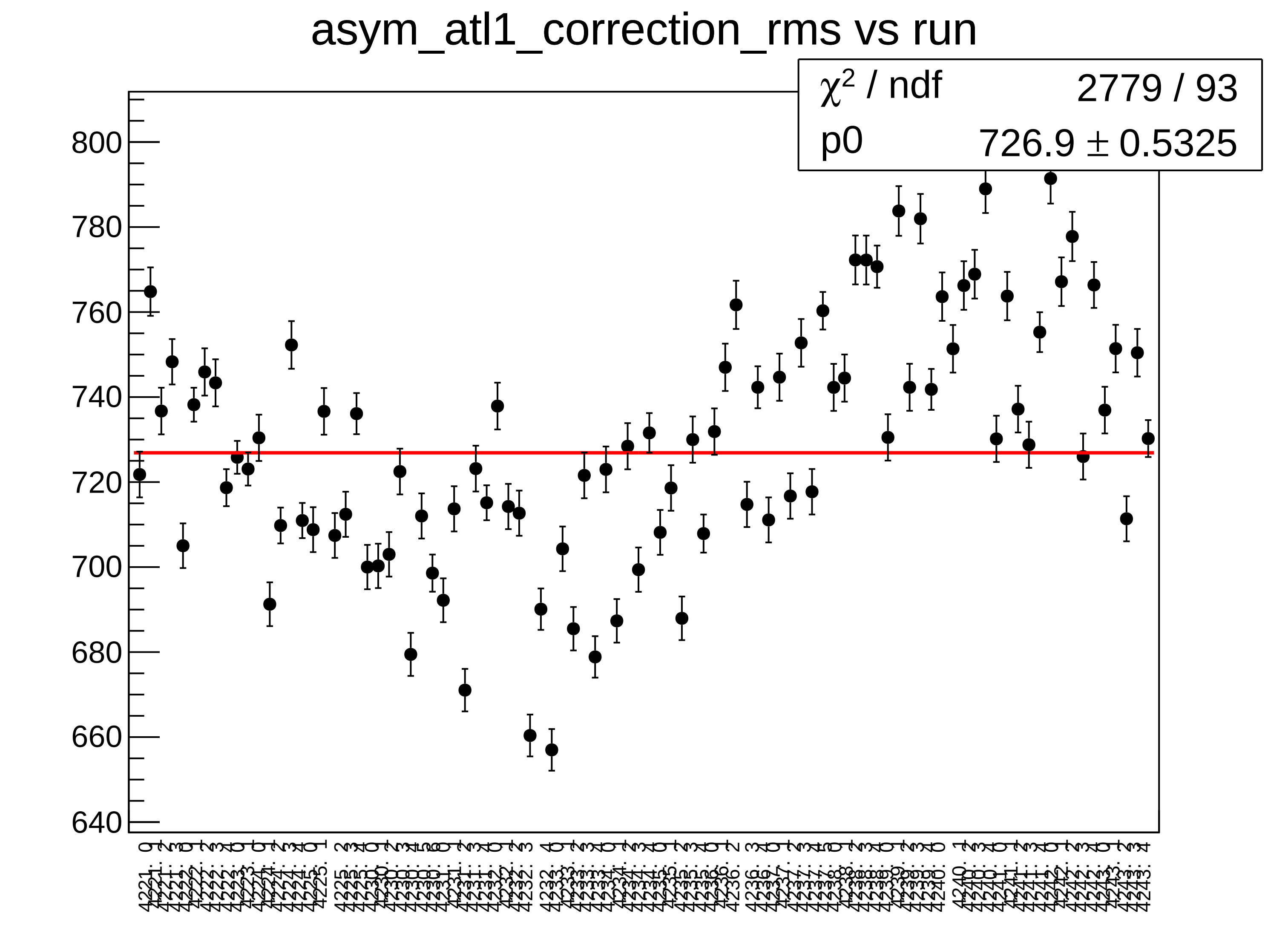
reg_asym_atl1_mean vs run
χ^2 / ndf 94.85 / 93
p0 179.3 ± 490.6
pull
Entries 94
Mean 8999
Std Dev 8939
pull1D
Entries 94
Mean −0.0001838
Std Dev 1.004



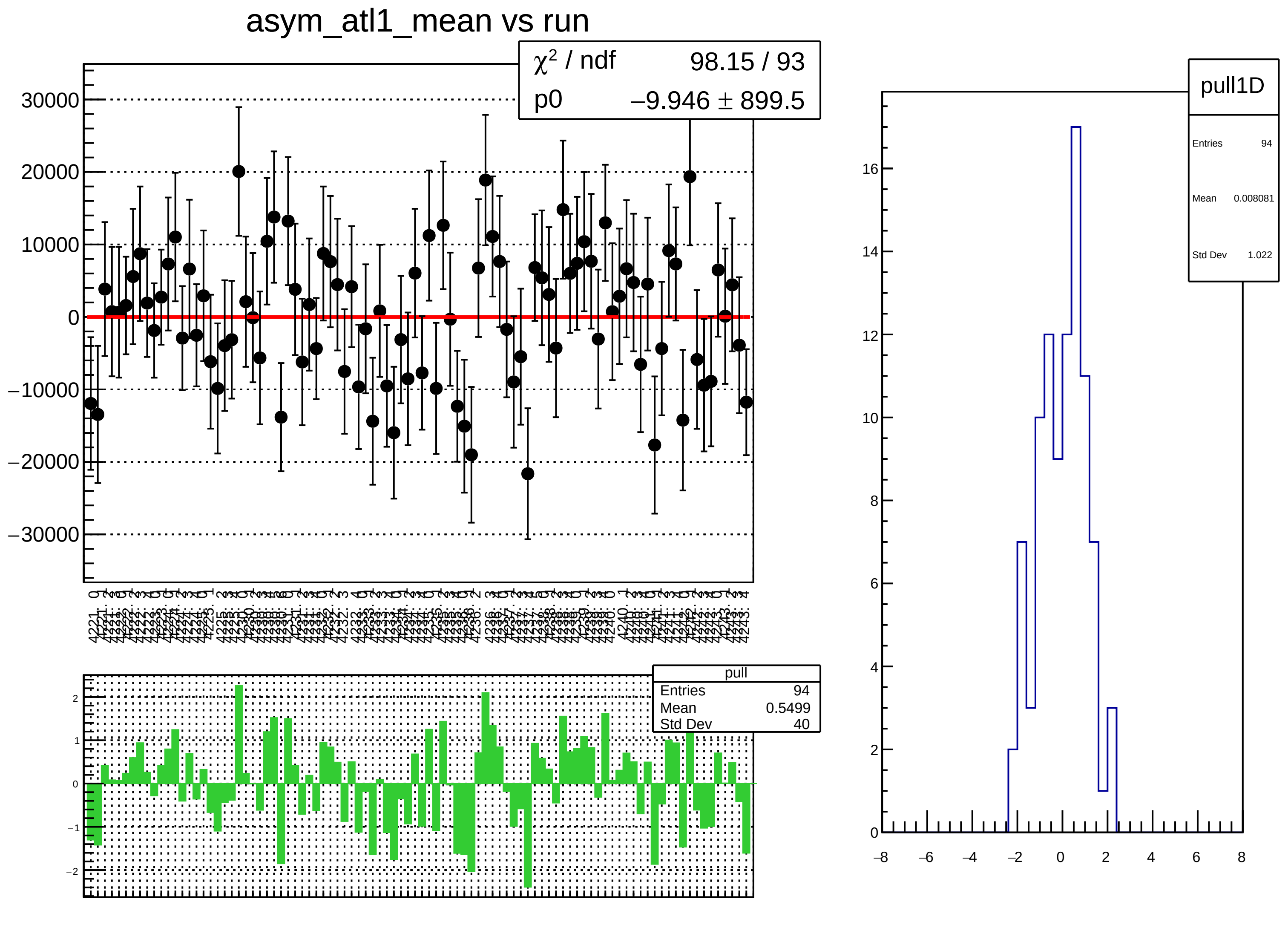
reg_asym_atl1_rms vs run
χ2 / ndf 353.5 / 93
p0 473.9 ± 0.3469
510
500
490
480
470
460

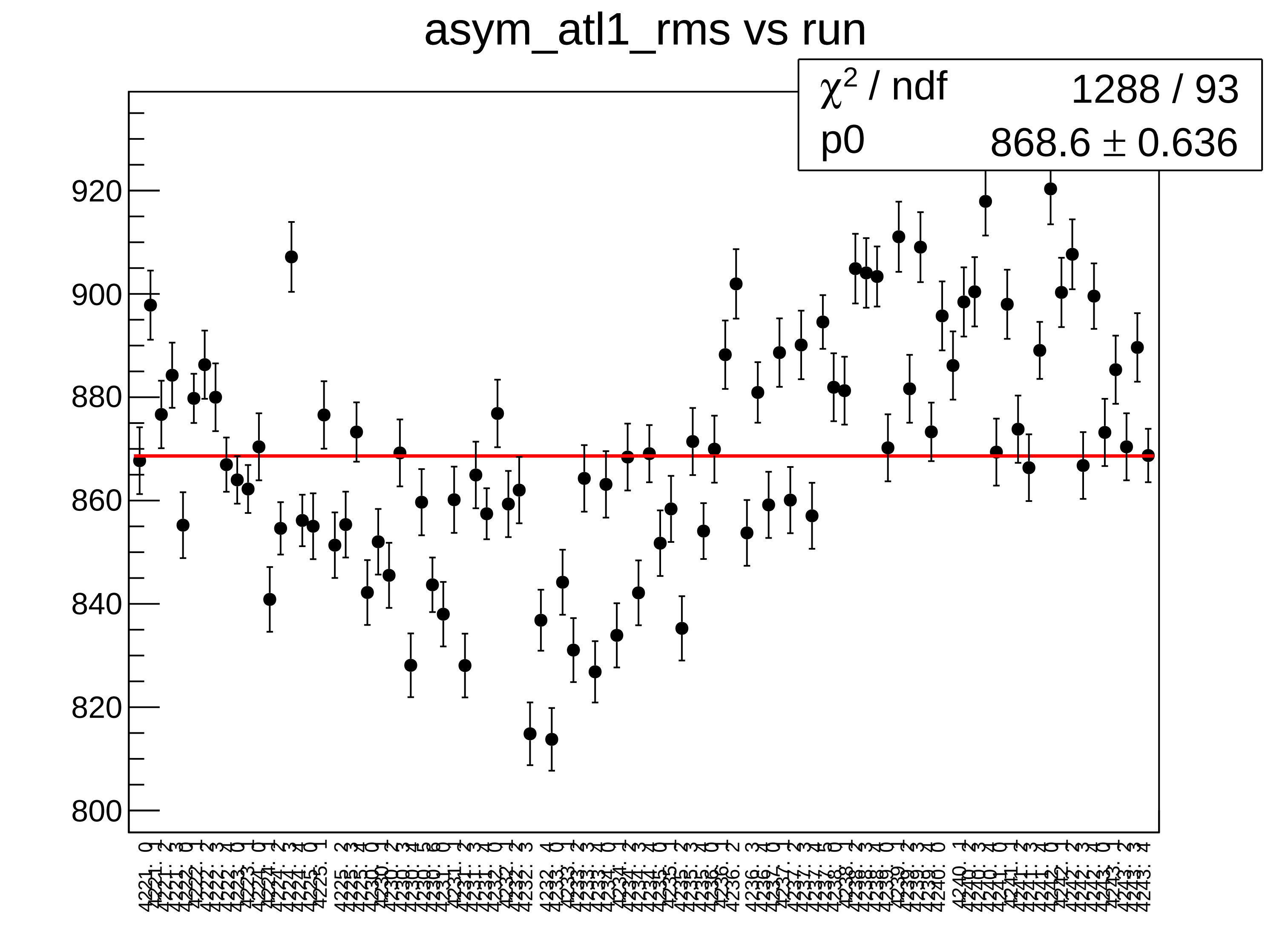


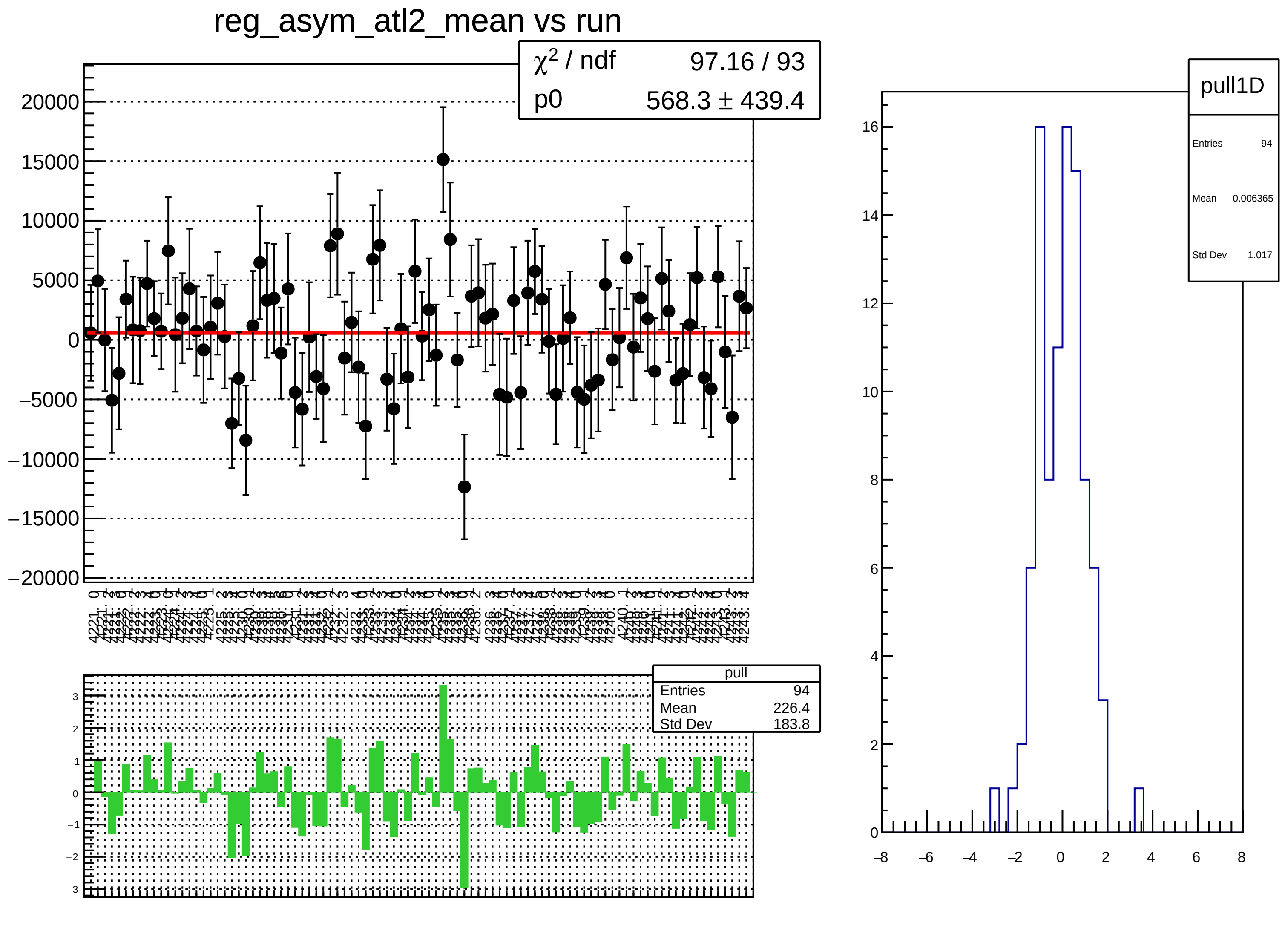
asym_atl1_correction_mean vs run
χ^2 / ndf 106.3 / 93
p0 213.7 ± 753
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 101.3
Std Dev 13.4
pull1D
Entries 94
Mean −0.01154
Std Dev 1.063



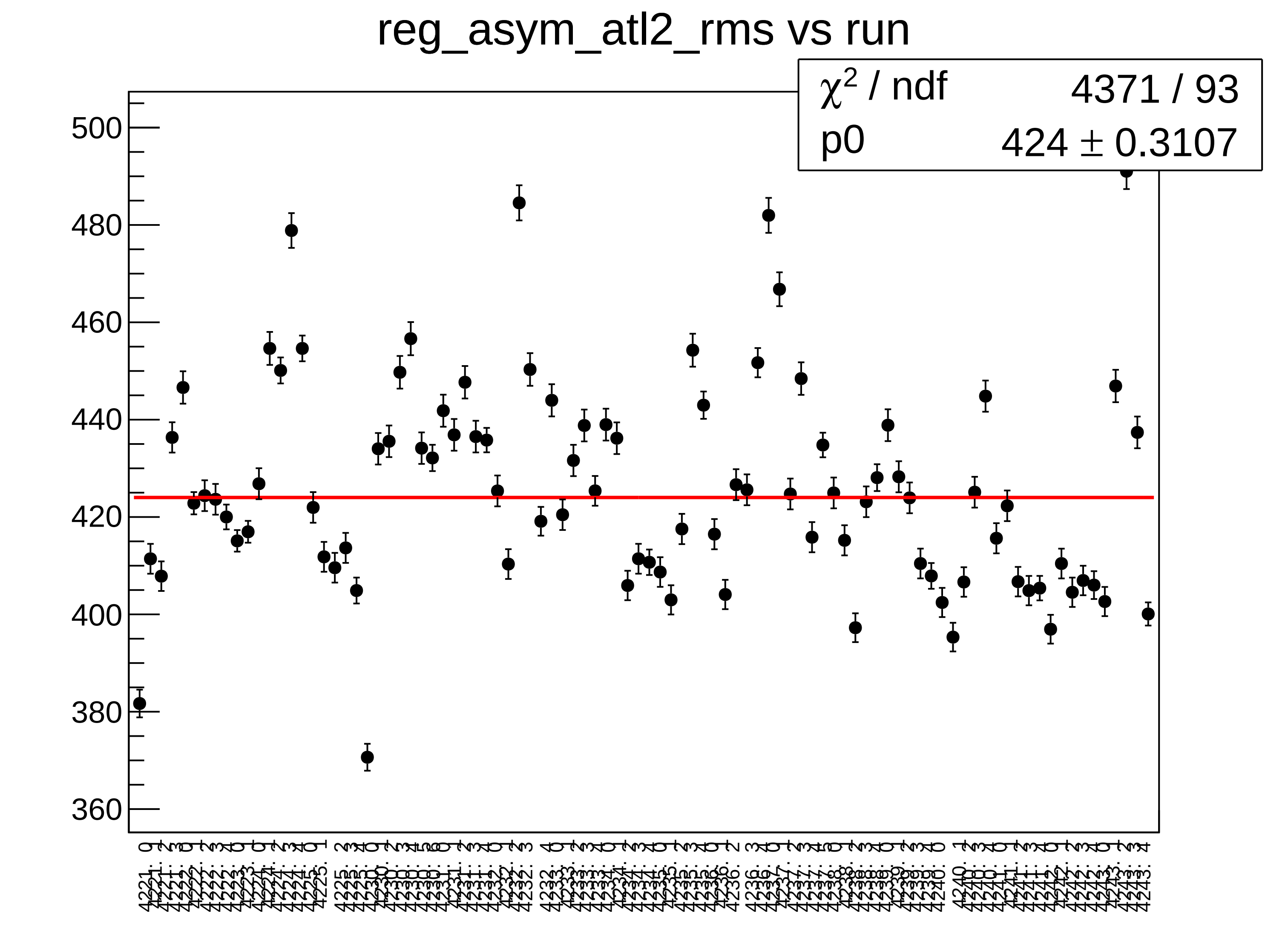
asym_atl1_correction_rms vs run
χ^2 / ndf 2779 / 93
p0 726.9 ± 0.5325
800
780
760
740
720
700
680
660
640


asym_atl1_mean vs run
χ^2 / ndf 98.15 / 93
p0 −9.946 ± 899.5
pull
Entries 94
Mean 0.5499
Std Dev 40
pull1D
Entries 94
Mean 0.008081
Std Dev 1.022

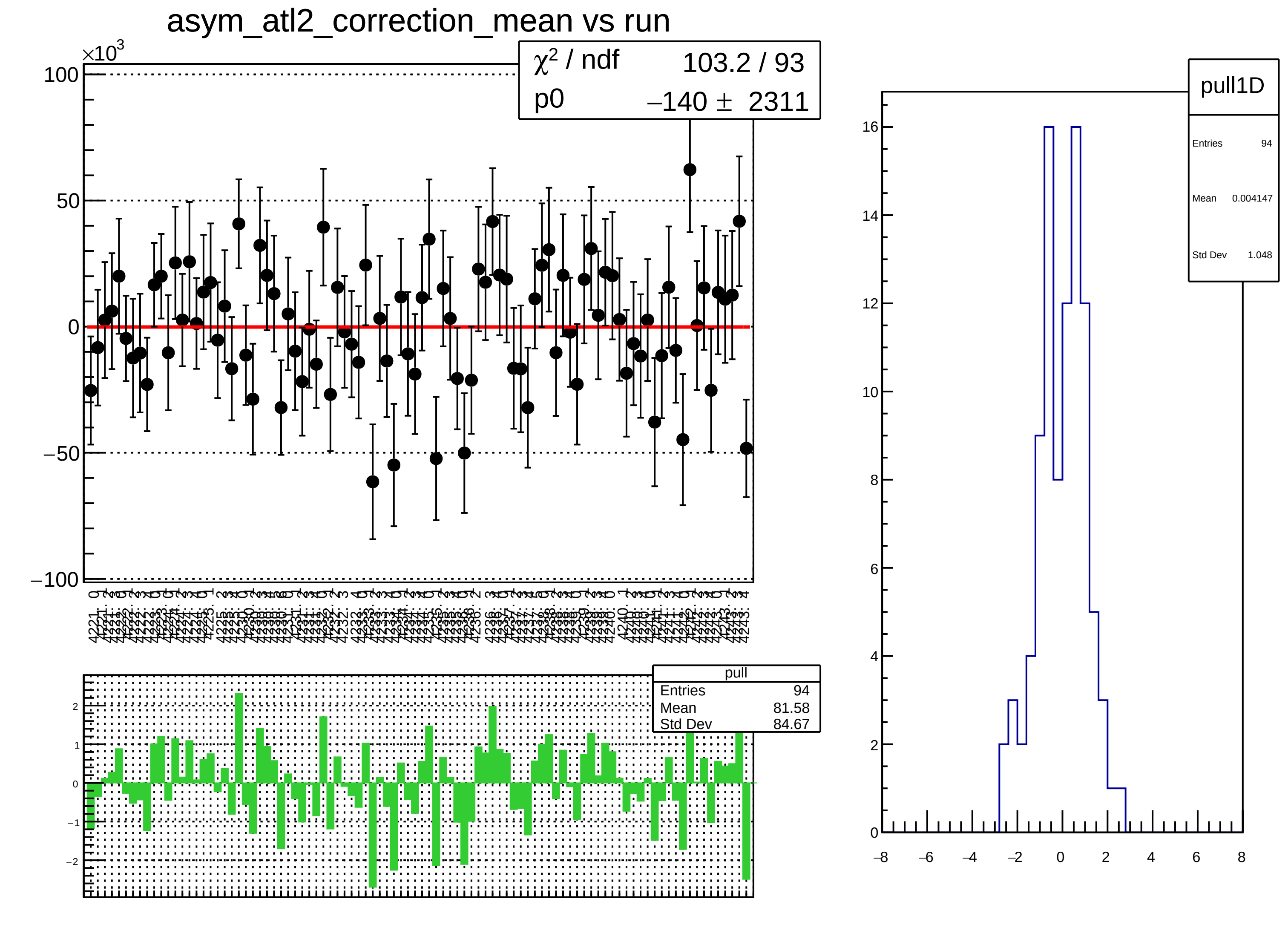

asym_atl1_rms vs run
χ^2 / ndf 1288 / 93
p0 868.6 ± 0.636
920
900
880
860
840
820
800



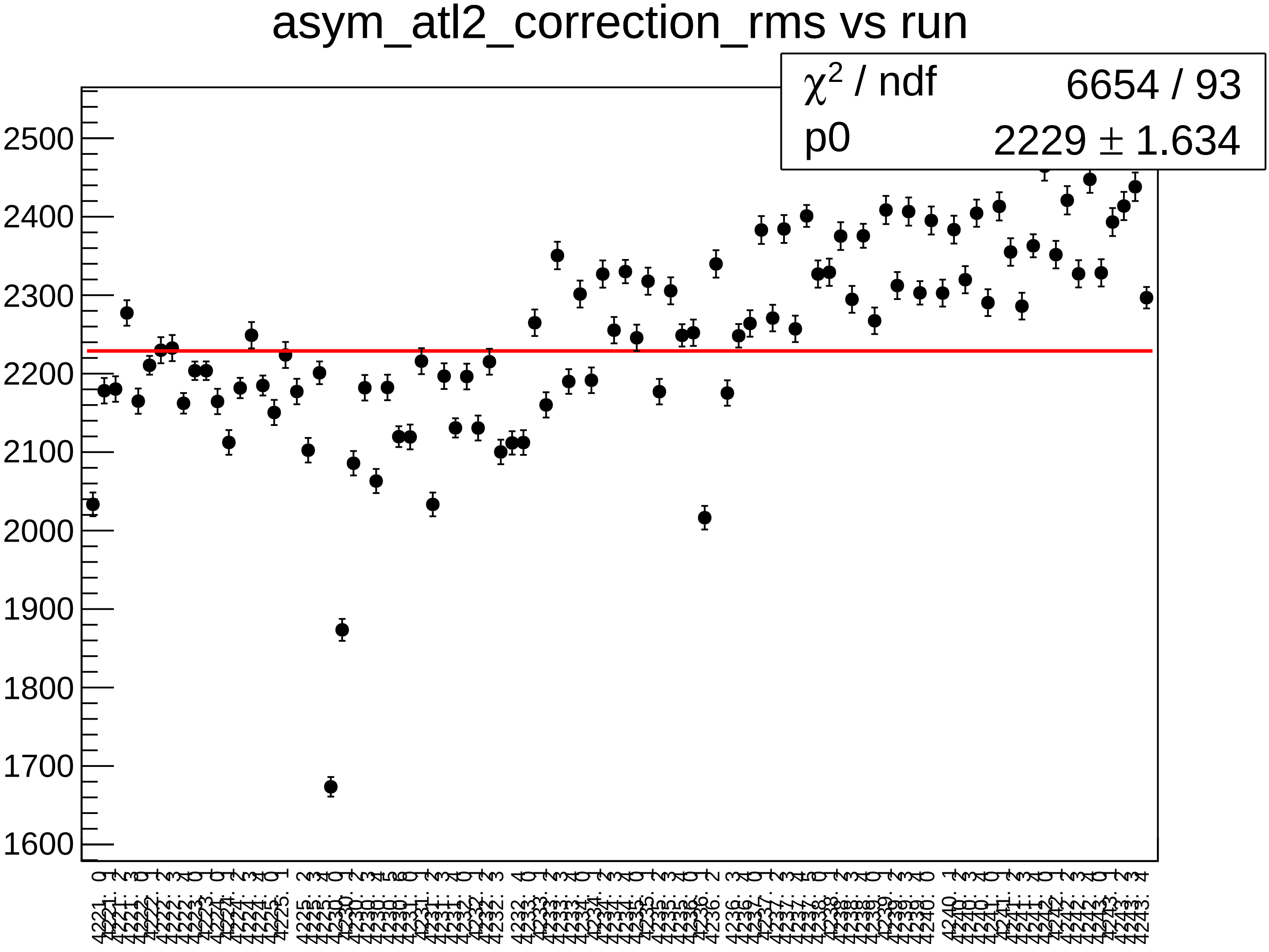
reg_asym_atl2_mean vs run
χ^2 / ndf 97.16 / 93
p0 568.3 ± 439.4
pull
Entries 94
Mean 226.4
Std Dev 183.8
pull1D
Entries 94
Mean −0.006365
Std Dev 1.017



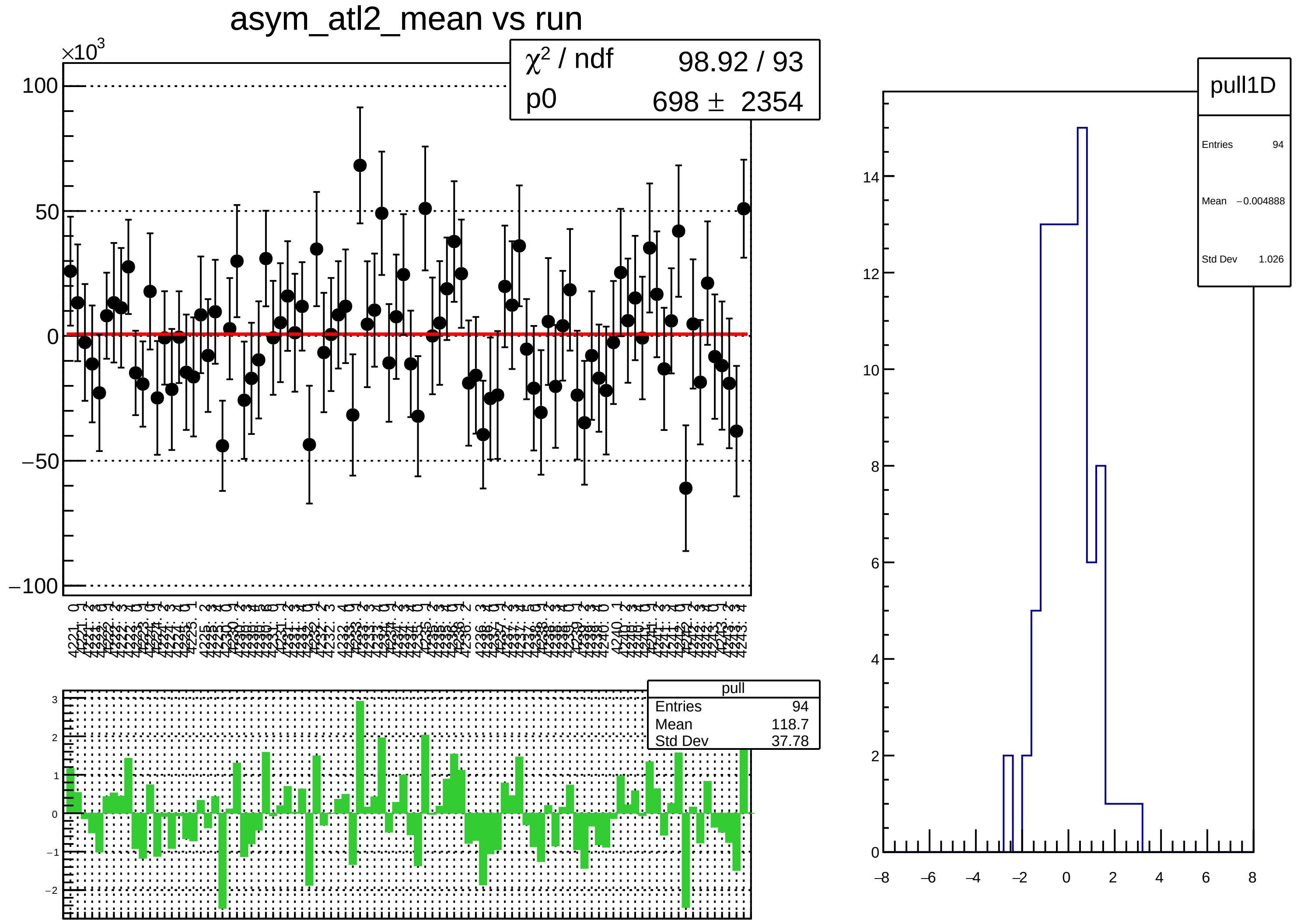
reg_asym_atl2_rms vs run
χ2 / ndf 4371 / 93
p0 424 ± 0.3107

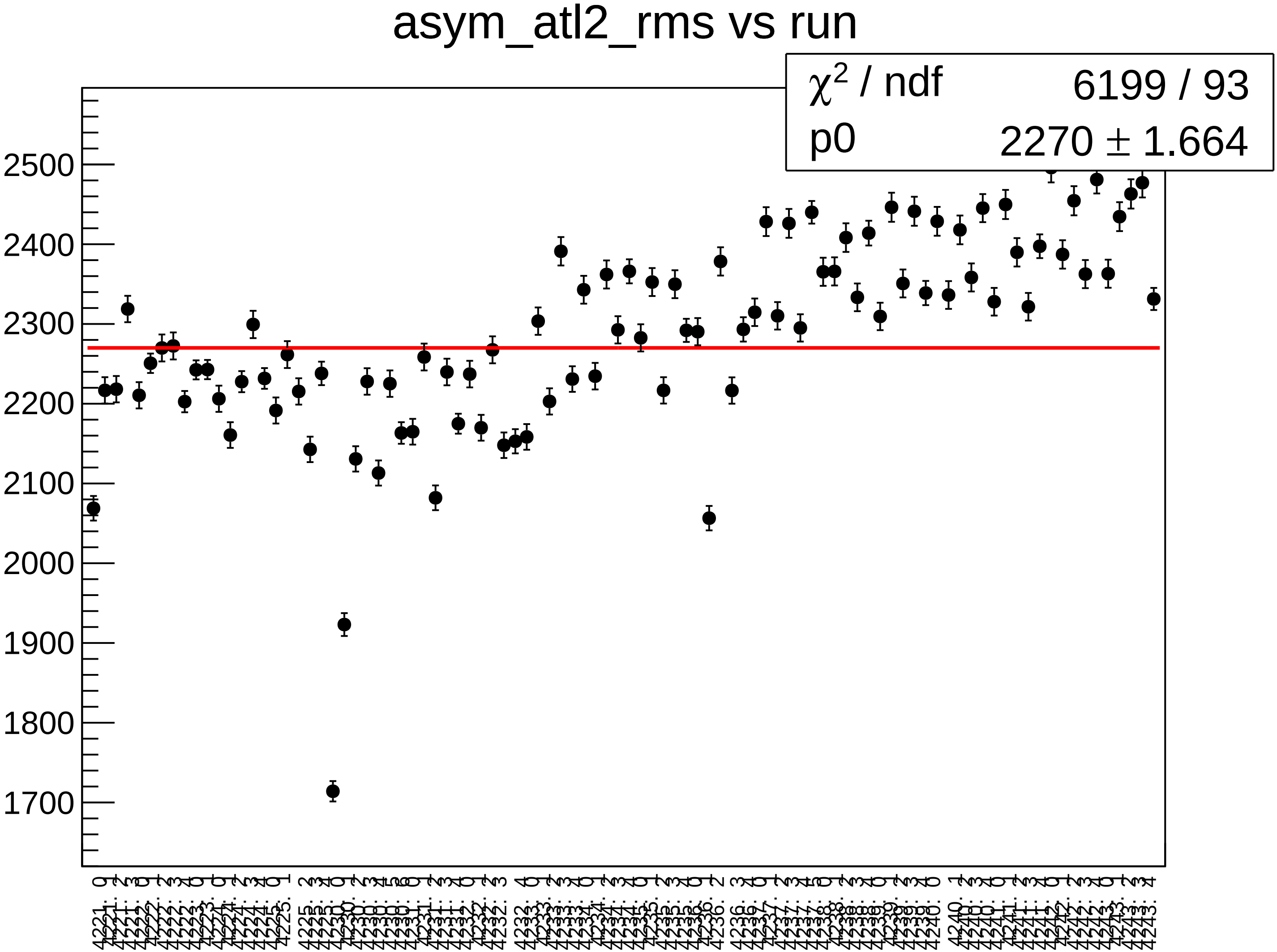


asym_atl2_correction_mean vs run
×10^3
100
50
0
−50
−100
χ2 / ndf 103.2 / 93
p0 −140 ± 2311
pull
Entries 94
Mean 81.58
Std Dev 84.67
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.004147
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

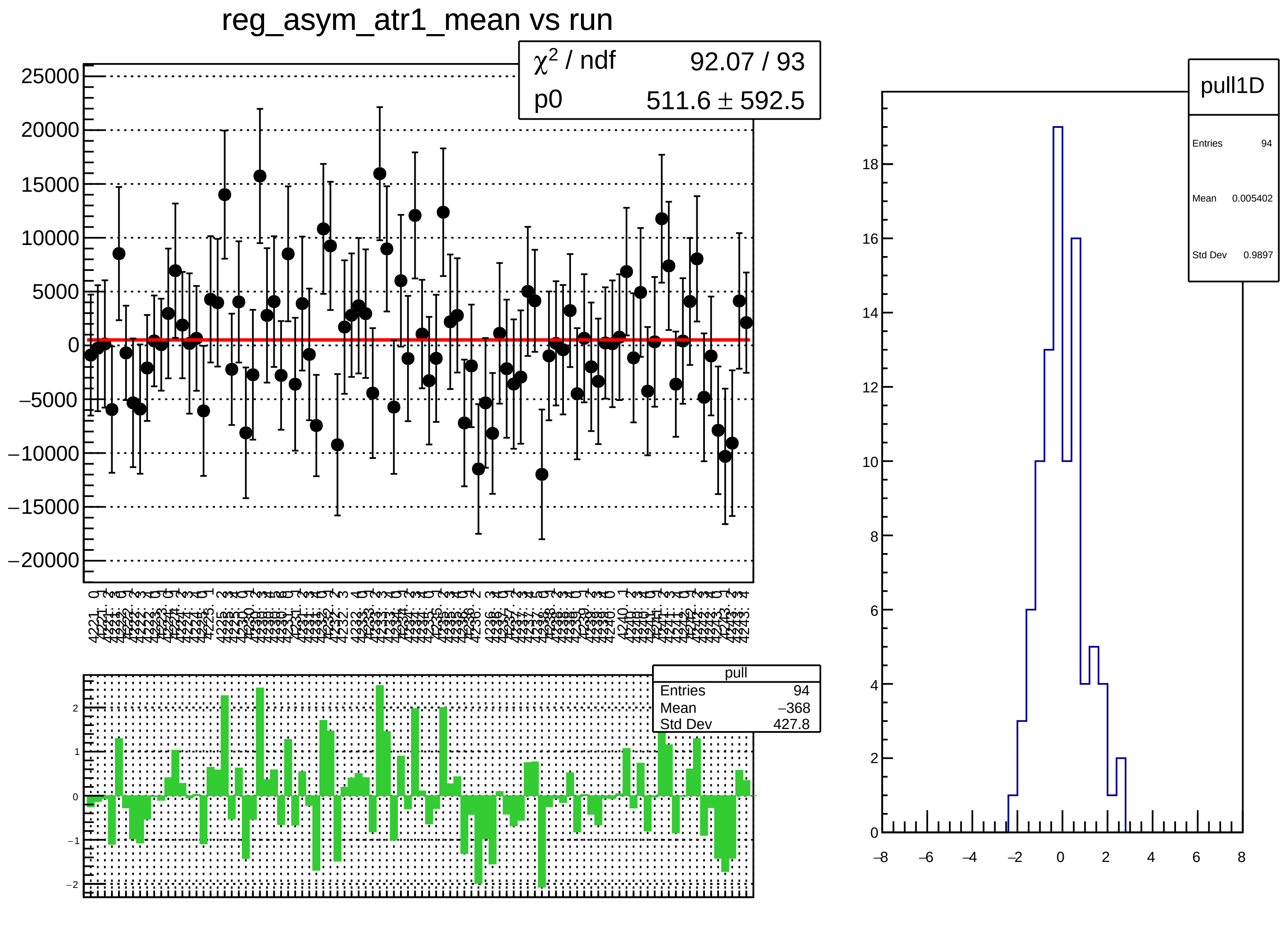


asym_atl2_correction_rms vs run
χ^2 / ndf 6654 / 93
p0 2229 ± 1.634
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

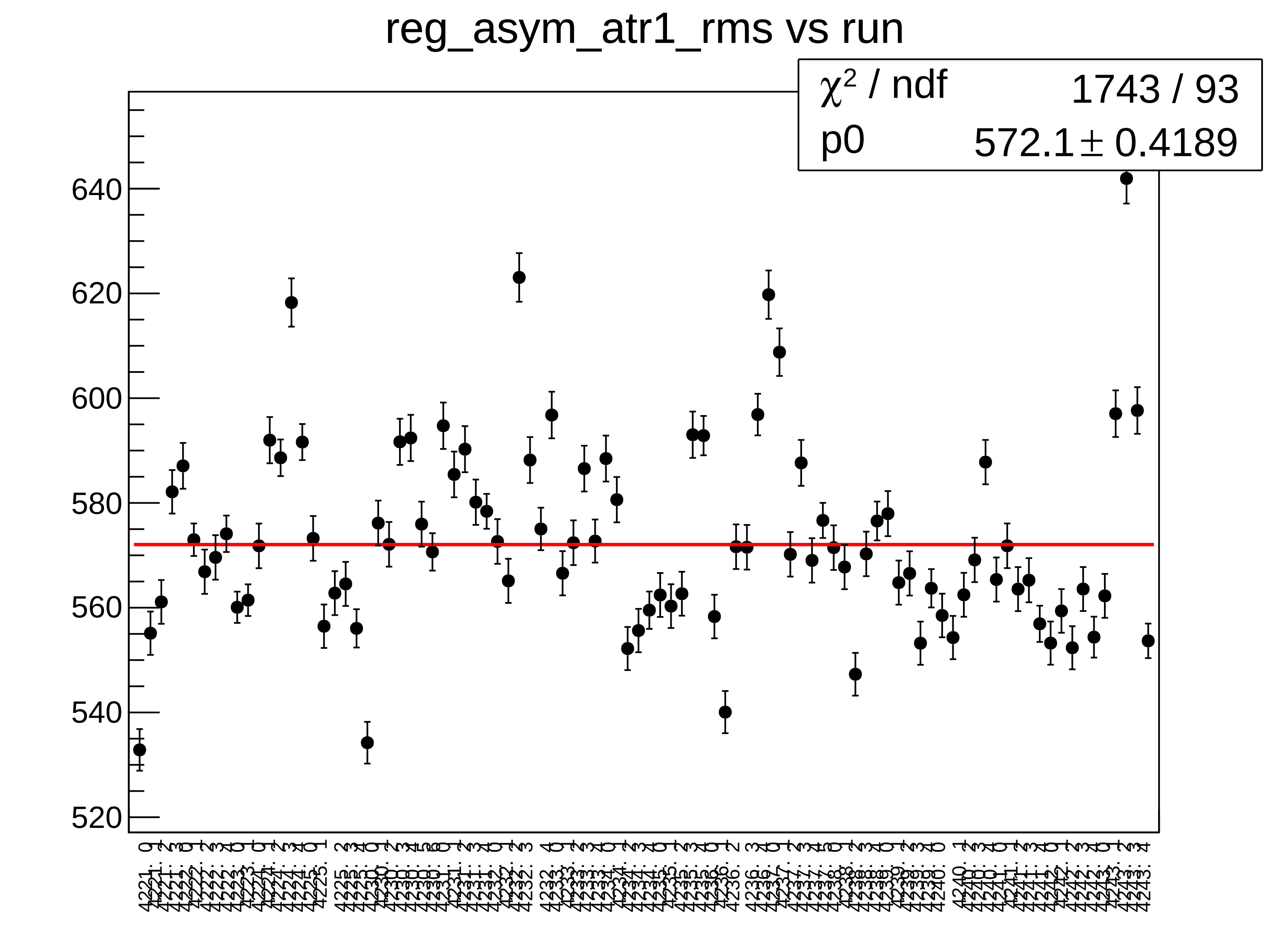

asym_atl2_mean vs run
×10^3
χ2 / ndf 98.92 / 93
p0 698 ± 2354
pull
Entries 94
Mean 118.7
Std Dev 37.78
pull1D
Entries 94
Mean −0.004888
Std Dev 1.026

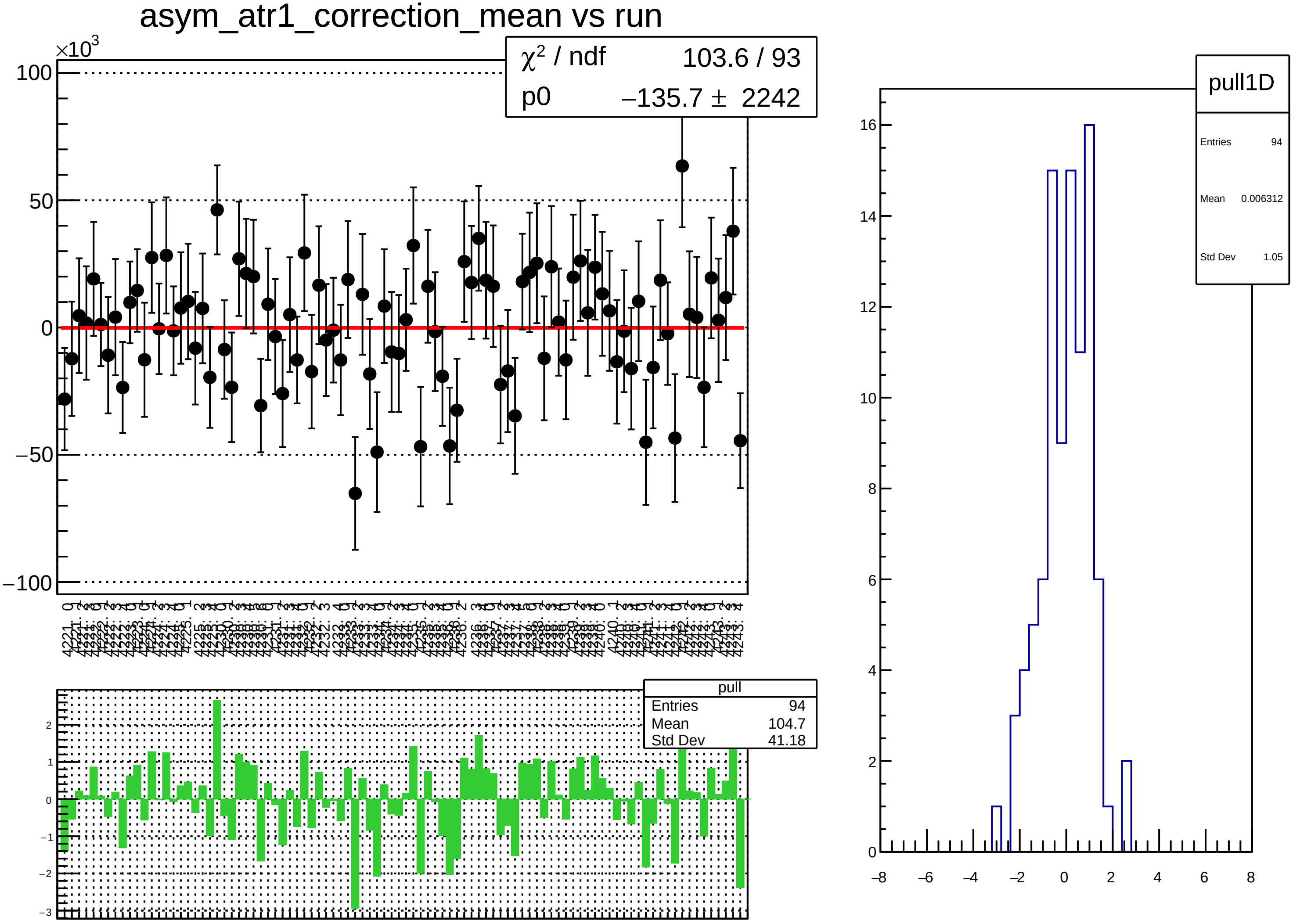


asym_atl2_rms vs run
χ2 / ndf 6199 / 93
p0 2270 ± 1.664
2500
2400
2300
2200
2100
2000
1900
1800
1700

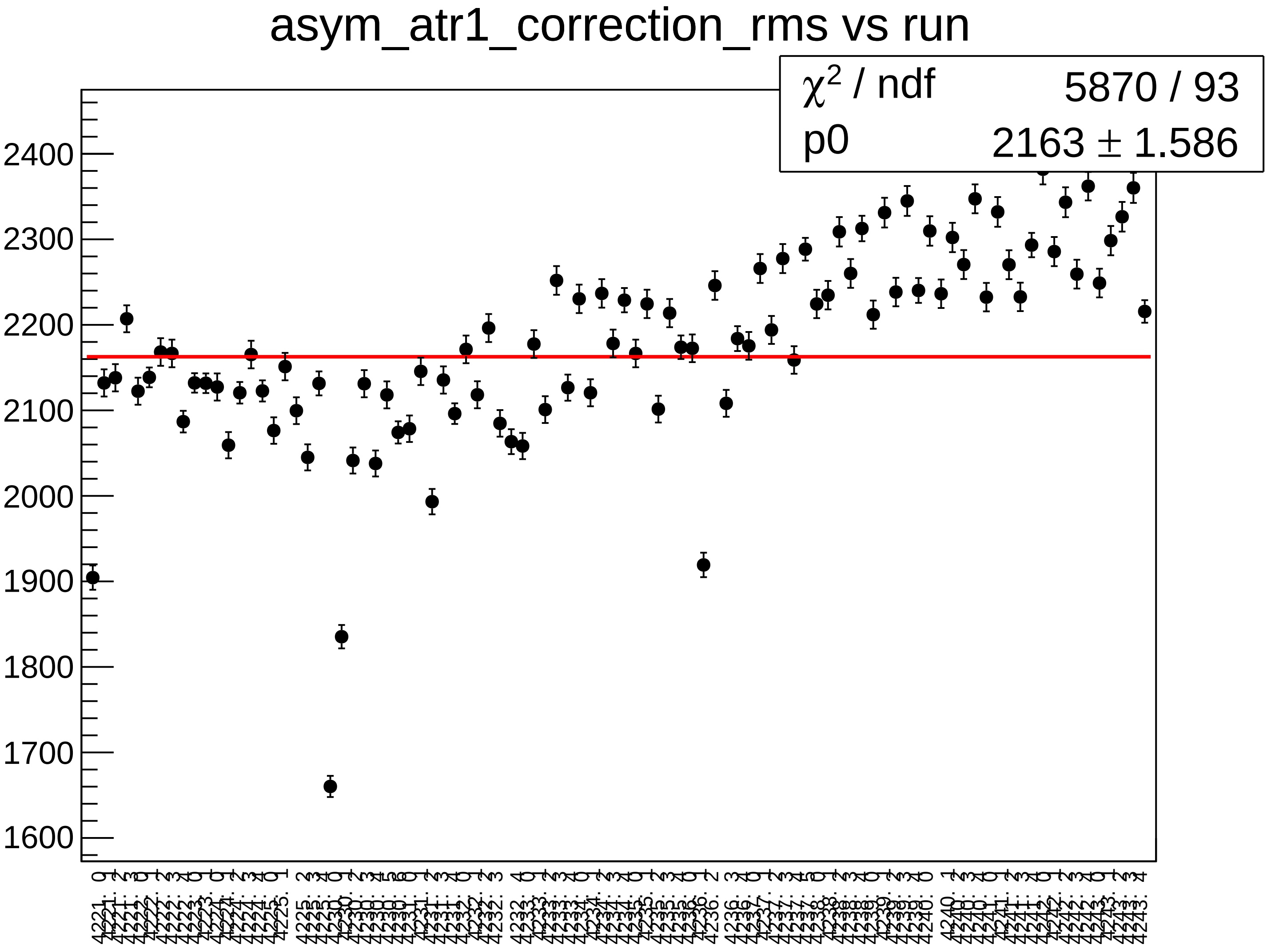


reg_asym_atr1_mean vs run
χ2 / ndf 92.07 / 93
p0 511.6 ± 592.5
pull
Entries 94
Mean −368
Std Dev 427.8
pull1D
Entries 94
Mean 0.005402
Std Dev 0.9897

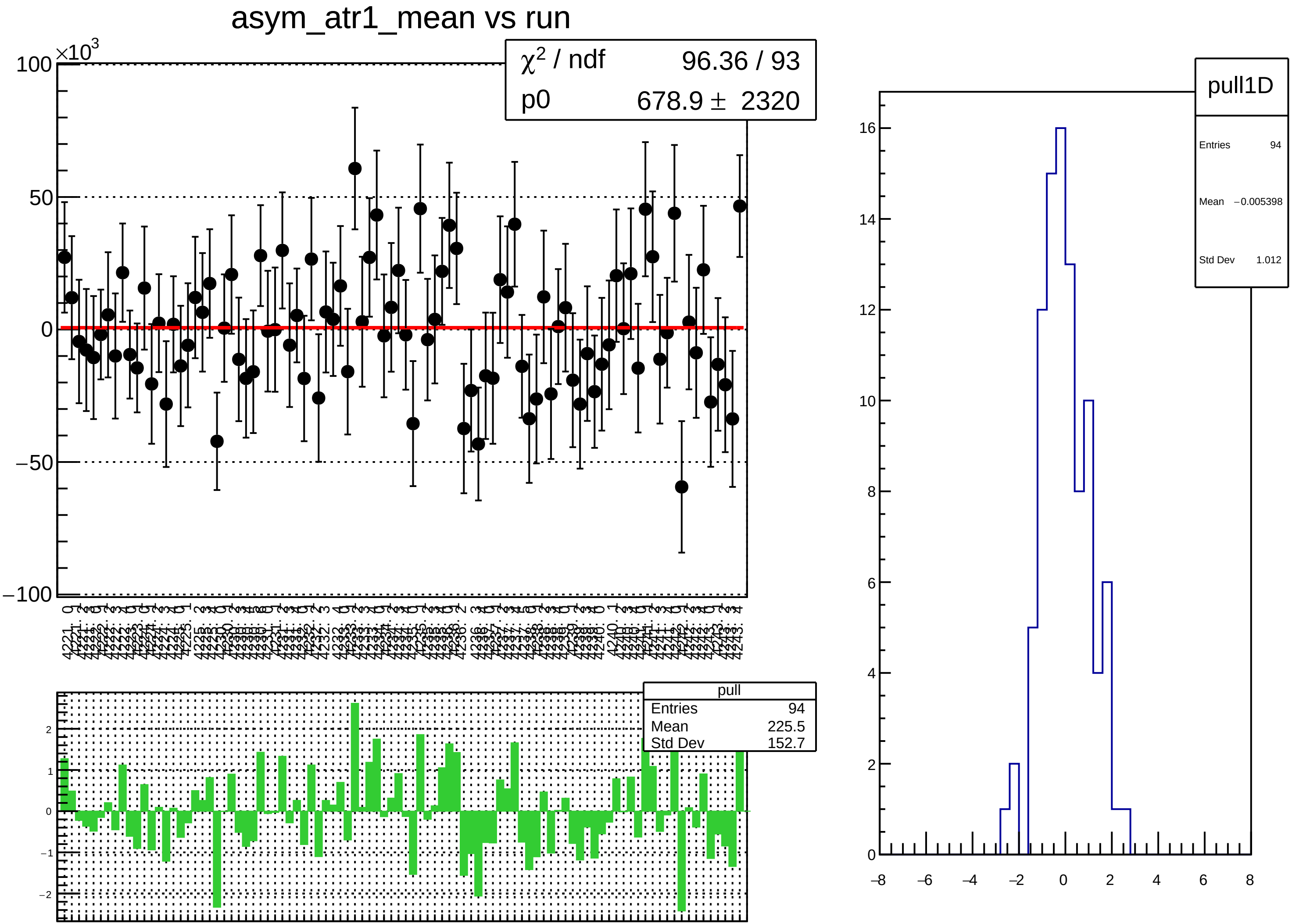

reg_asym_atr1_rms vs run
χ^2 / ndf 1743 / 93
p0 572.1 ± 0.4189
640
620
600
580
560
540
520

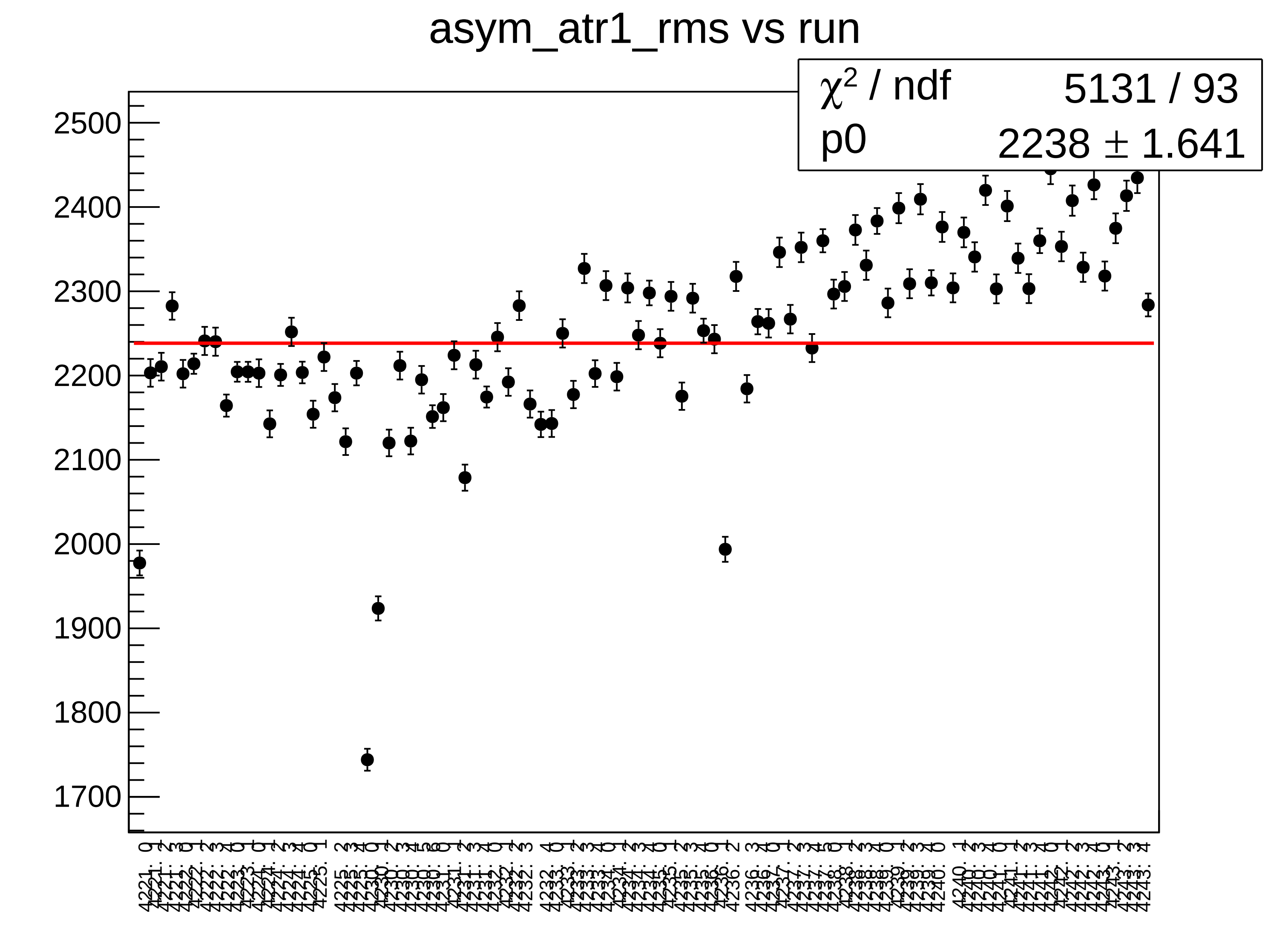


asym_atr1_correction_mean vs run
×10^3
χ^2 / ndf 103.6 / 93
p0 −135.7 ± 2242
pull
Entries 94
Mean 104.7
Std Dev 41.18
pull1D
Entries 94
Mean 0.006312
Std Dev 1.05

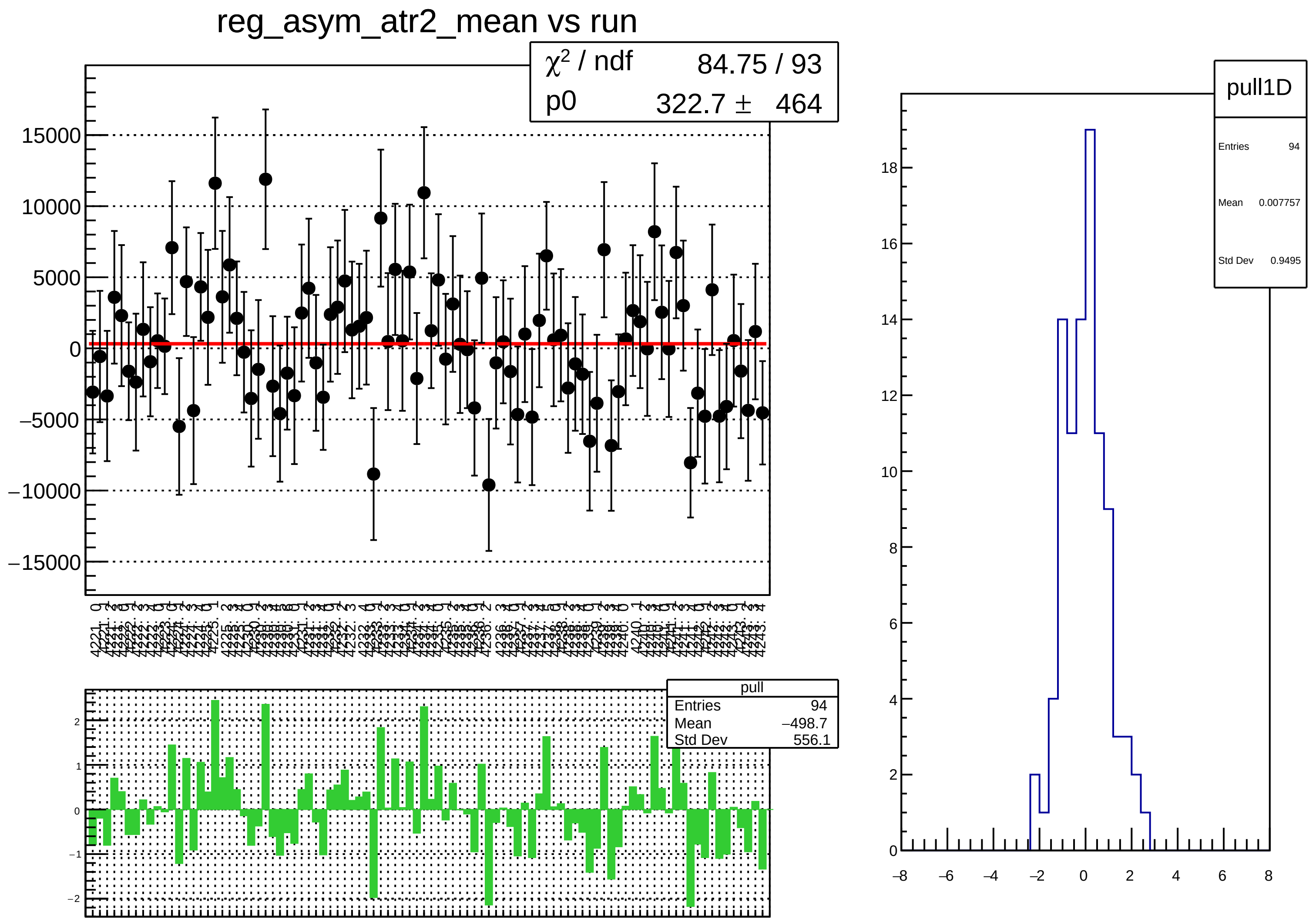


asym_atr1_correction_rms vs run
χ2 / ndf 5870 / 93
p0 2163 ± 1.586
2400
2300
2200
2100
2000
1900
1800
1700
1600

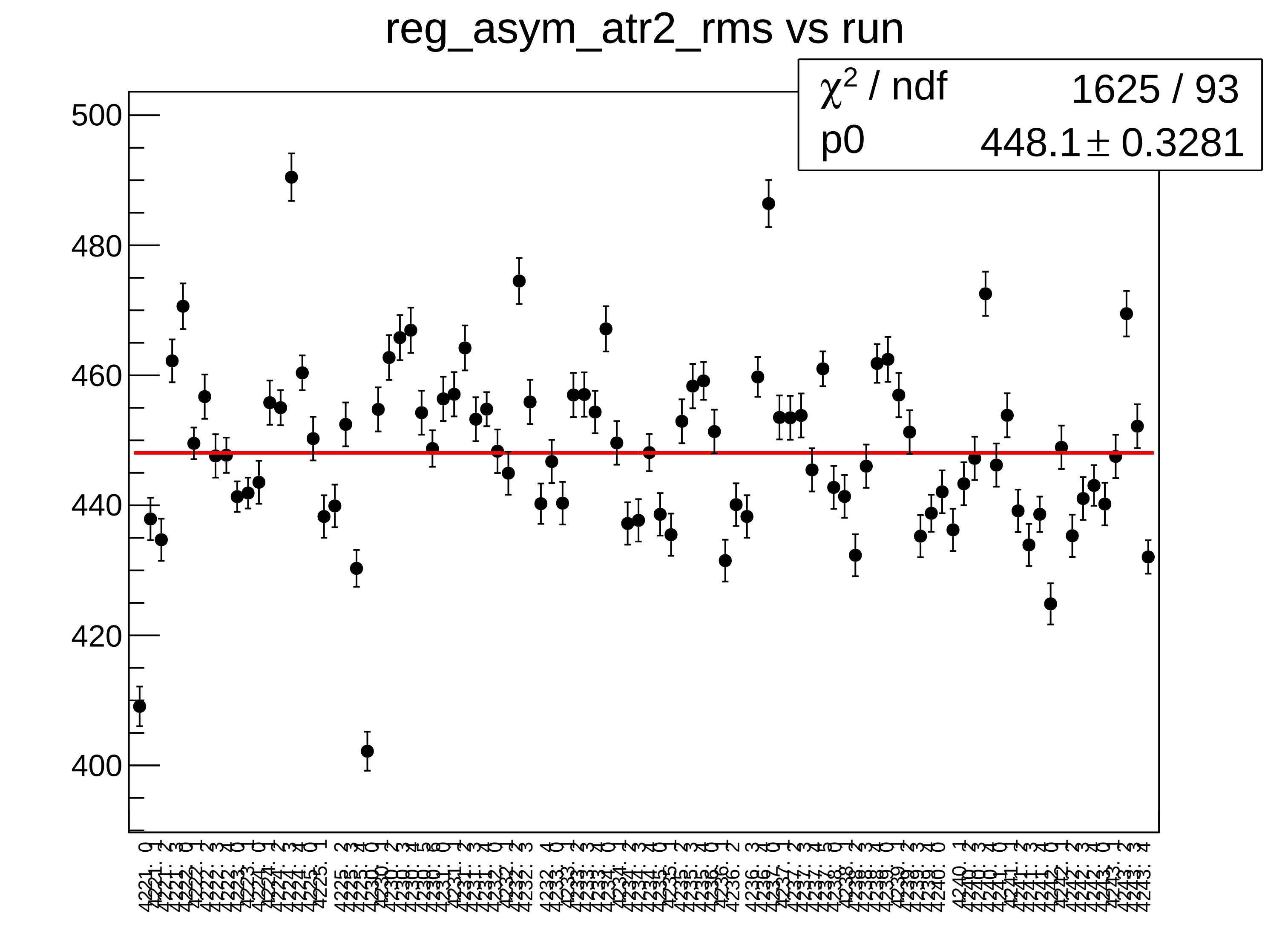

asym_atr1_mean vs run
χ^2 / ndf 96.36 / 93
p0 678.9 ± 2320
×10^3
100
50
0
−50
−100
pull
Entries 94
Mean 225.5
Std Dev 152.7
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005398
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

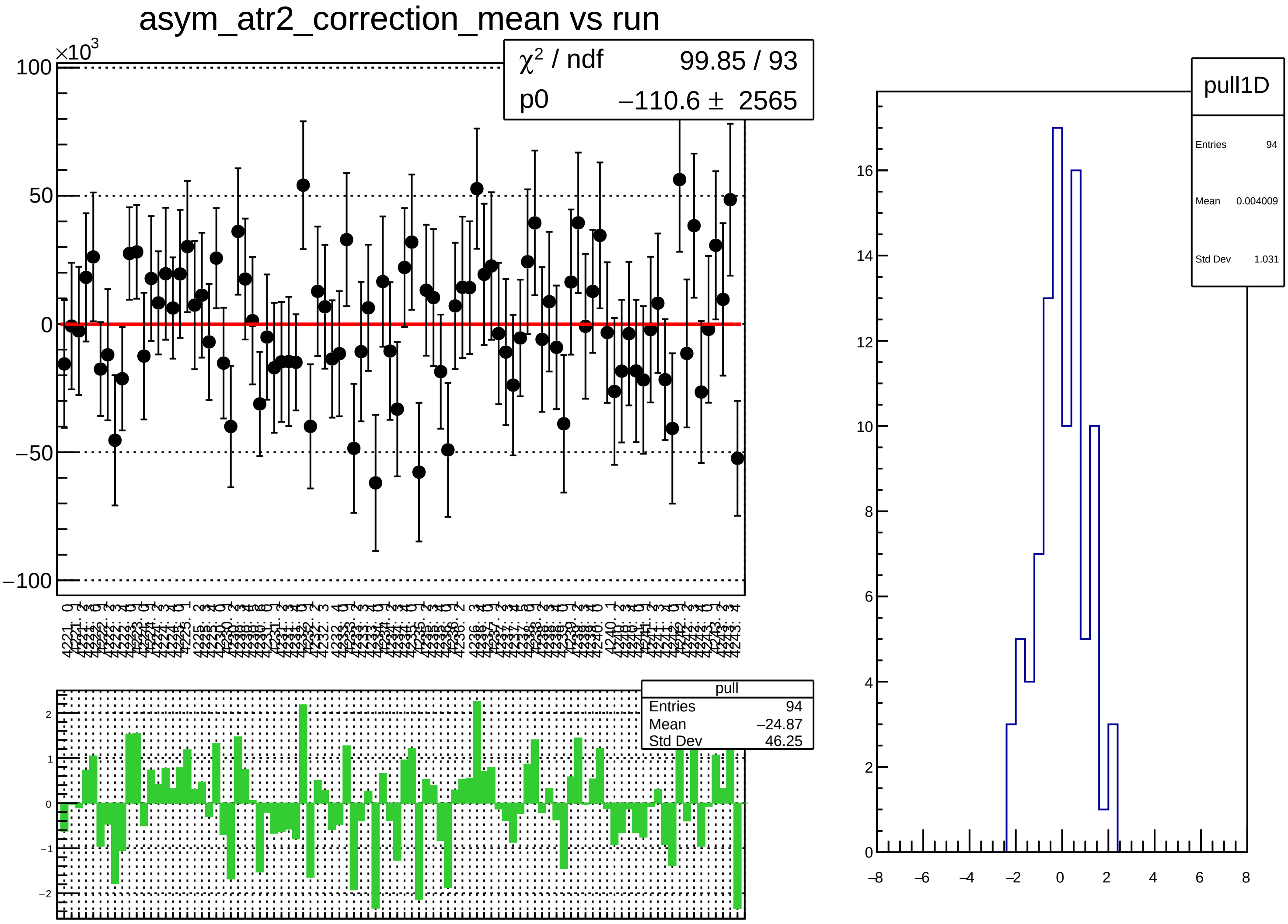


asym_atr1_rms vs run
χ^2 / ndf 5131 / 93
p0 2238 ± 1.641
2500
2400
2300
2200
2100
2000
1900
1800
1700

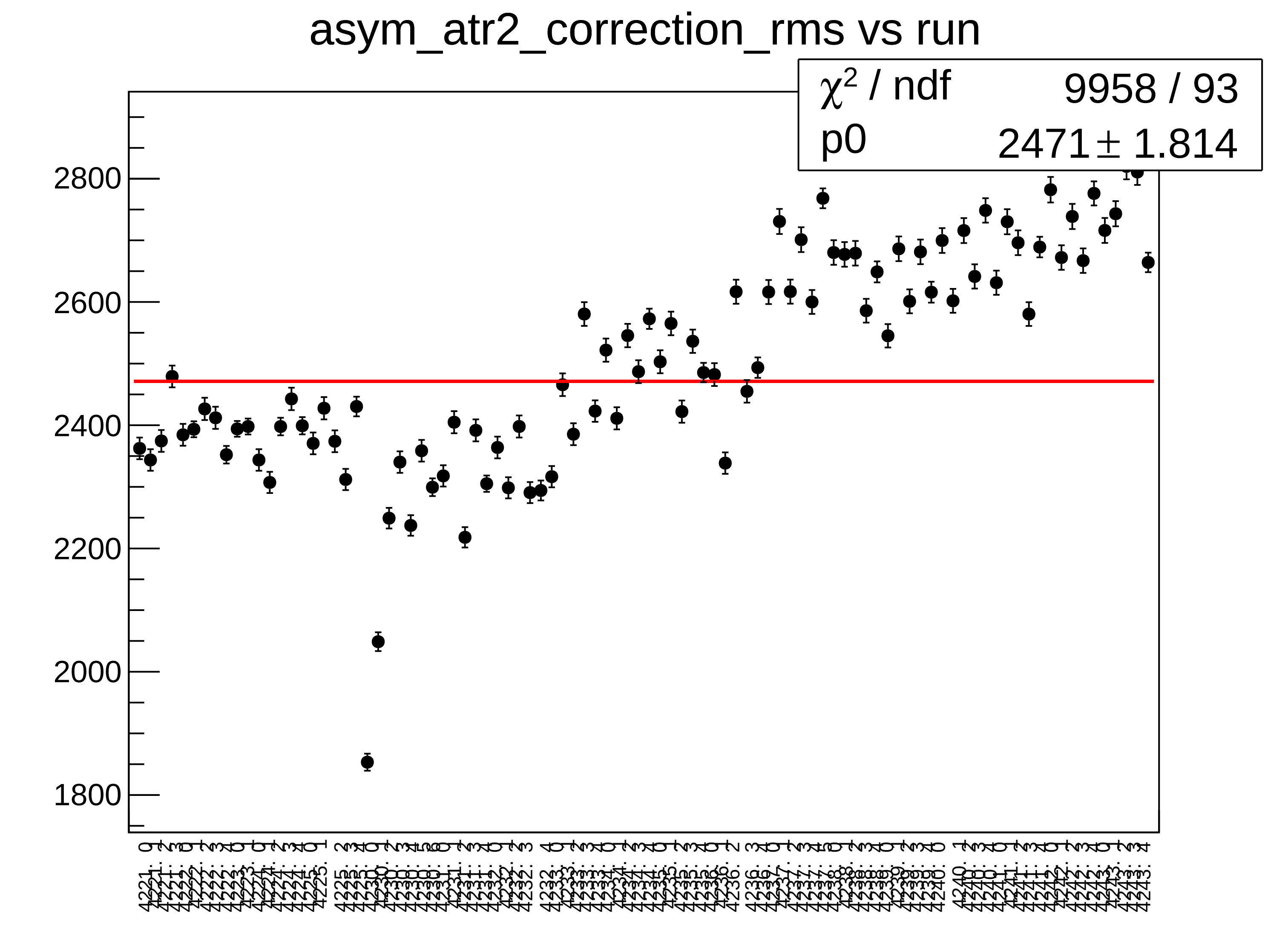


reg_asym_atr2_mean vs run
χ2 / ndf 84.75 / 93
p0 322.7 ± 464
pull
Entries 94
Mean −498.7
Std Dev 556.1
pull1D
Entries 94
Mean 0.007757
Std Dev 0.9495

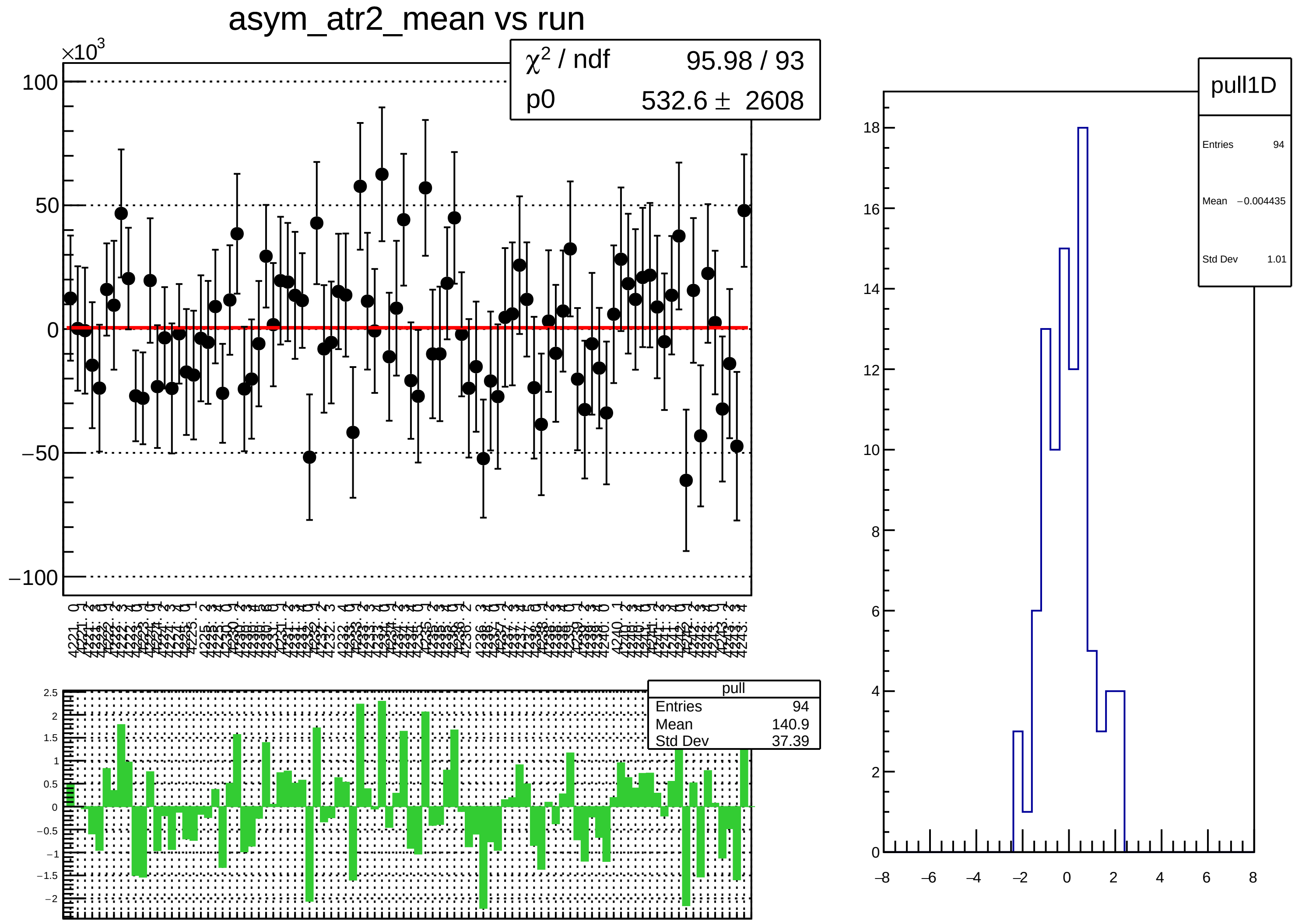

reg_asym_atr2_rms vs run
χ2 / ndf 1625 / 93
p0 448.1 ± 0.3281
500
480
460
440
420
400



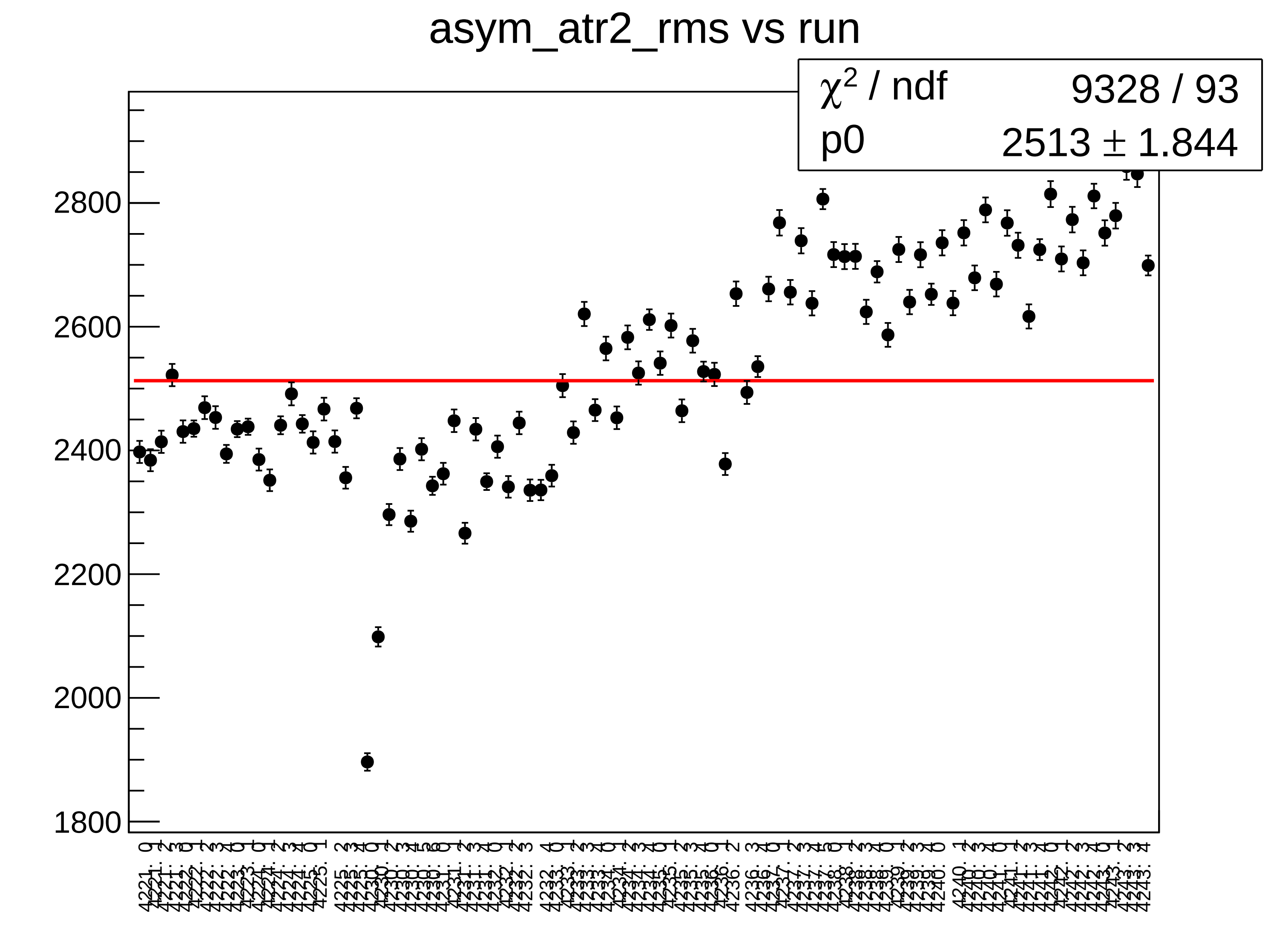
asym_atr2_correction_mean vs run
χ2 / ndf 99.85 / 93
p0 −110.6 ± 2565
×10^3
100
50
0
−50
−100
pull
Entries 94
Mean −24.87
Std Dev 46.25
pull1D
Entries 94
Mean 0.004009
Std Dev 1.031



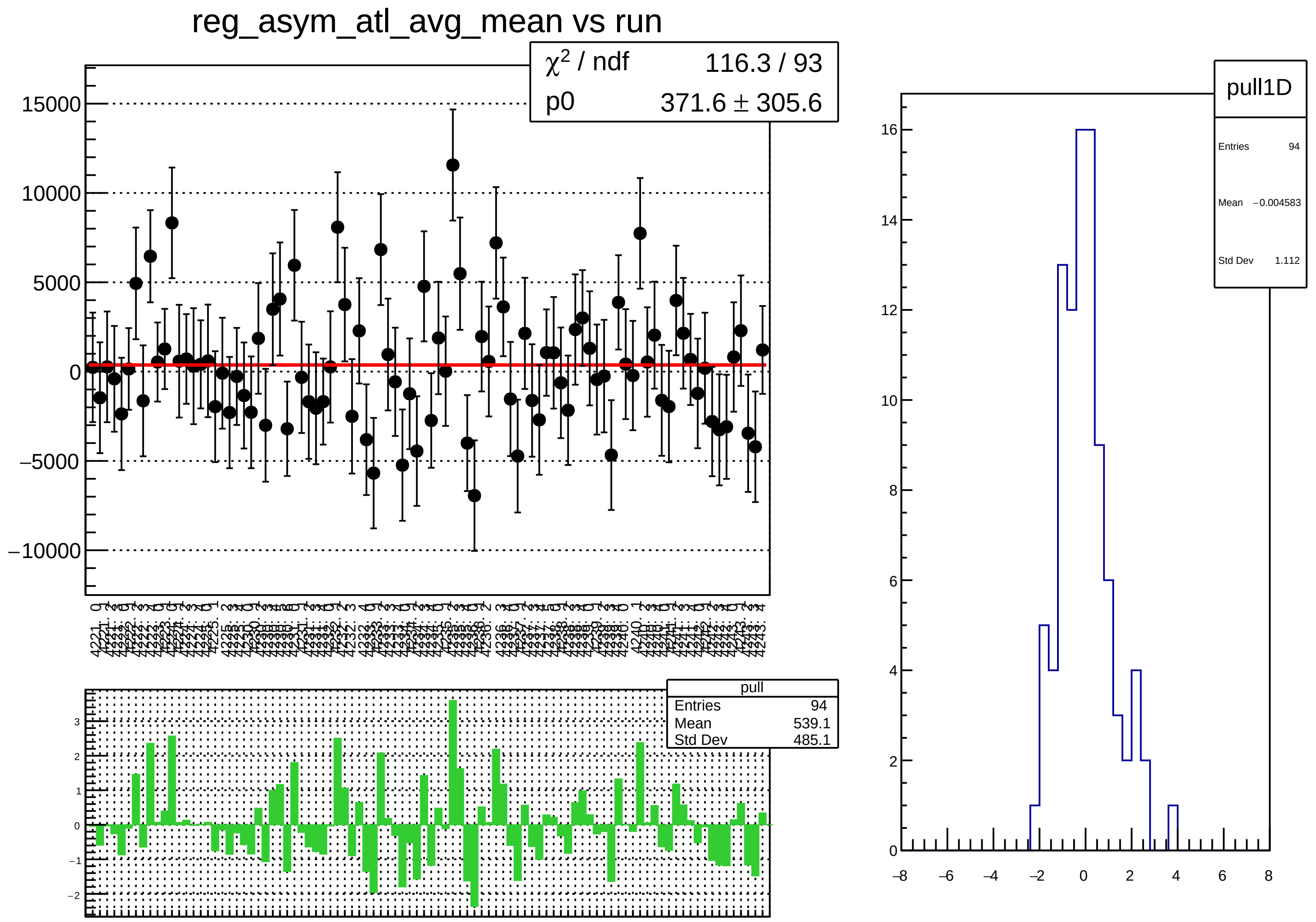
asym_atr2_correction_rms vs run
χ2 / ndf 9958 / 93
p0 2471 ± 1.814
2800
2600
2400
2200
2000
1800



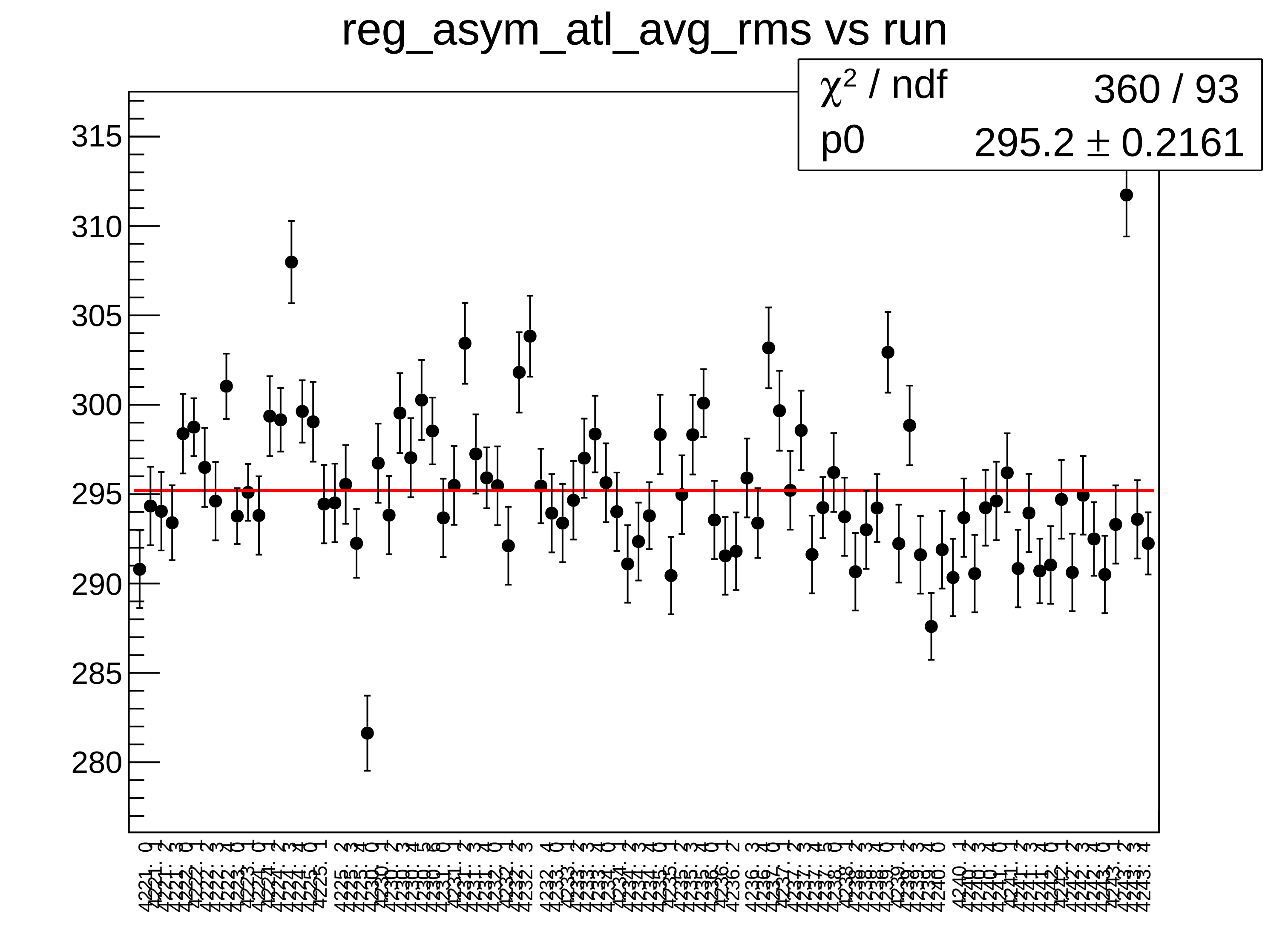
asym_atr2_mean vs run
$\times10^{3}$
χ^2 / ndf 95.98 / 93
p0 532.6 ± 2608
pull
Entries 94
Mean 140.9
Std Dev 37.39
pull1D
Entries 94
Mean −0.004435
Std Dev 1.01



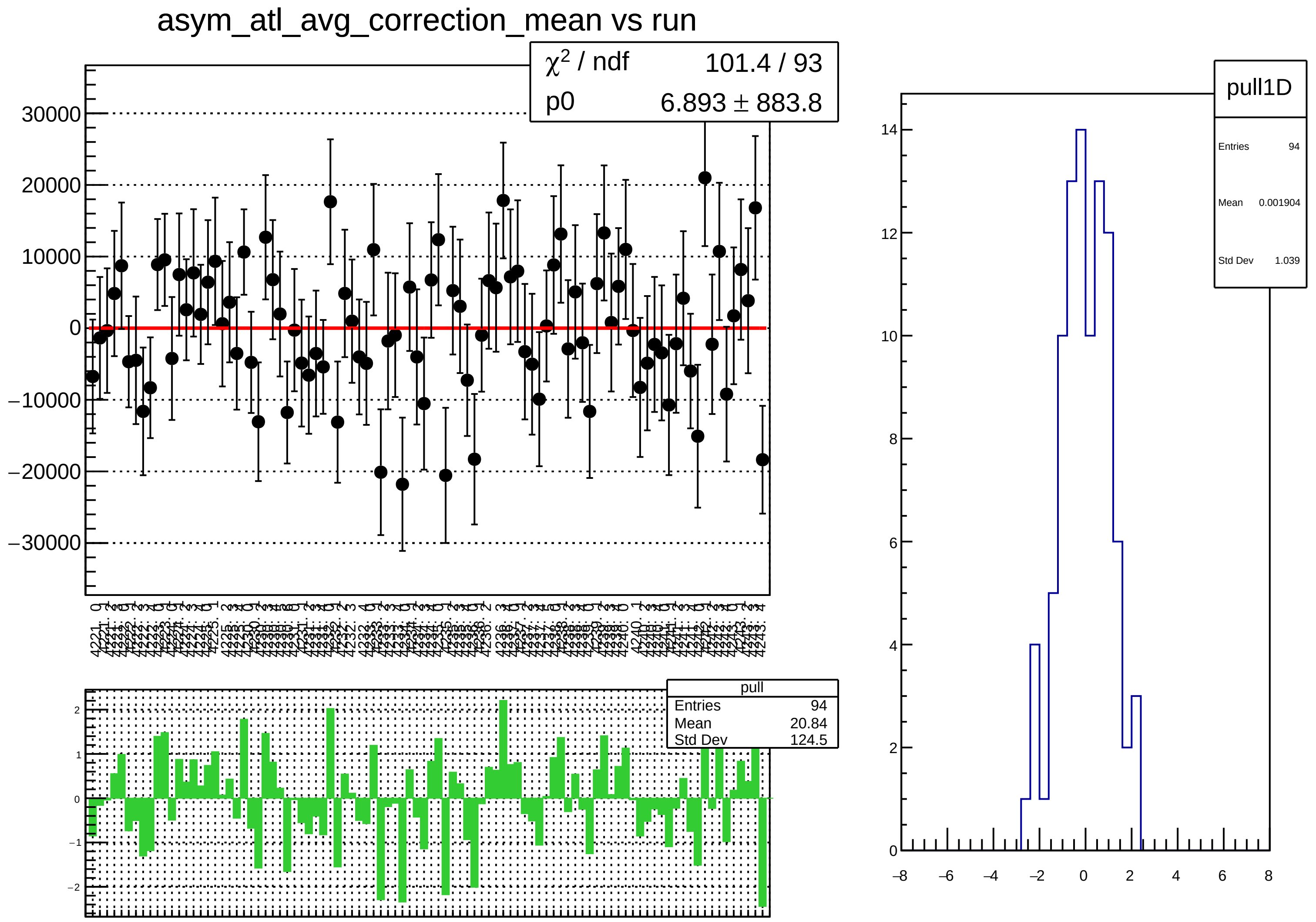
asym_atr2_rms vs run
χ^2 / ndf 9328 / 93
p0 2513 ± 1.844
2800
2600
2400
2200
2000
1800

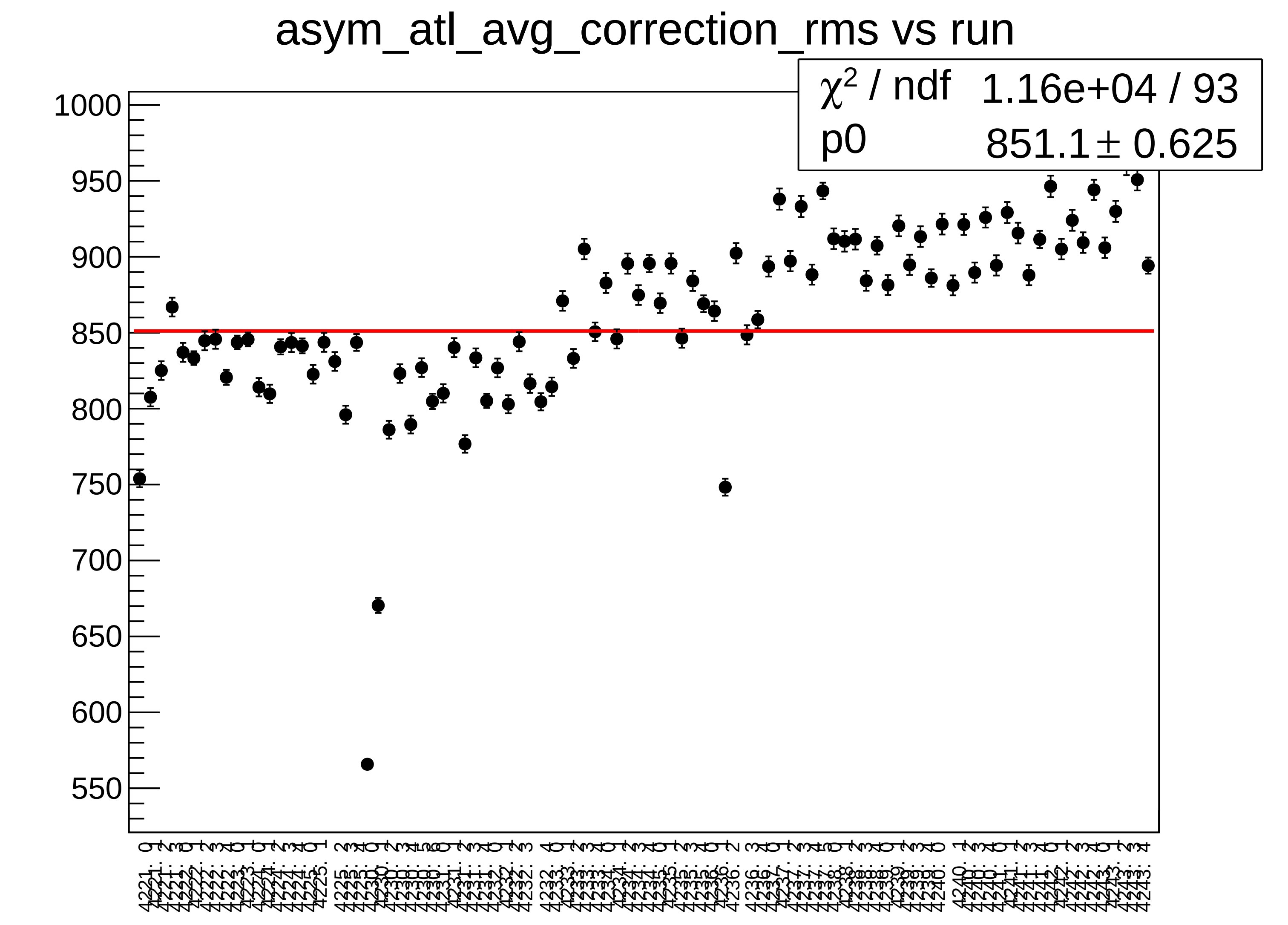


reg_asym_atl_avg_mean vs run
χ2 / ndf 116.3 / 93
p0 371.6 ± 305.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 539.1
Std Dev 485.1
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004583
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8 −6 −4 −2 0 2 4 6 8

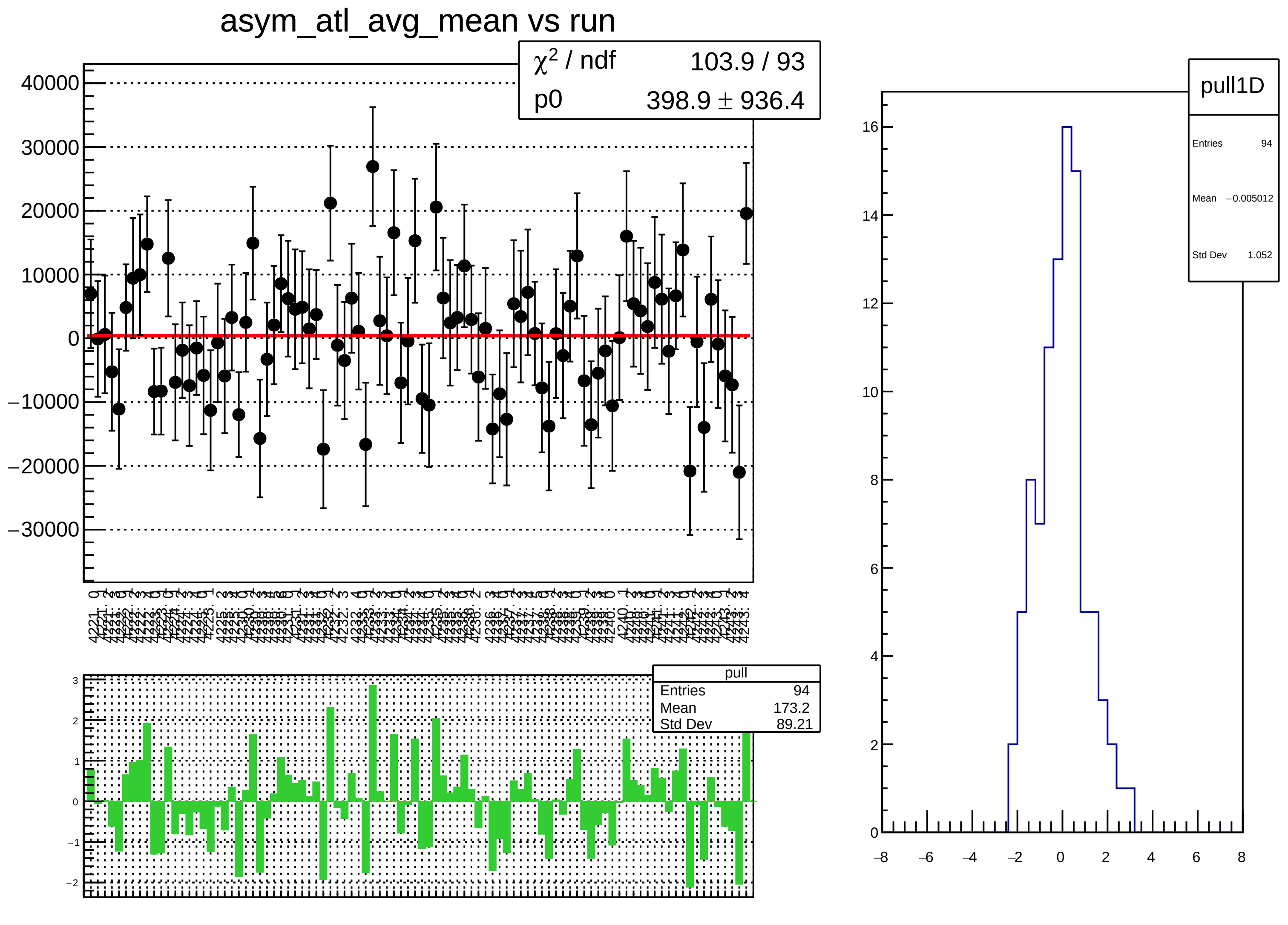


reg_asym_atl_avg_rms vs run
χ^2 / ndf 360 / 93
p0 295.2 ± 0.2161
315
310
305
300
295
290
285
280

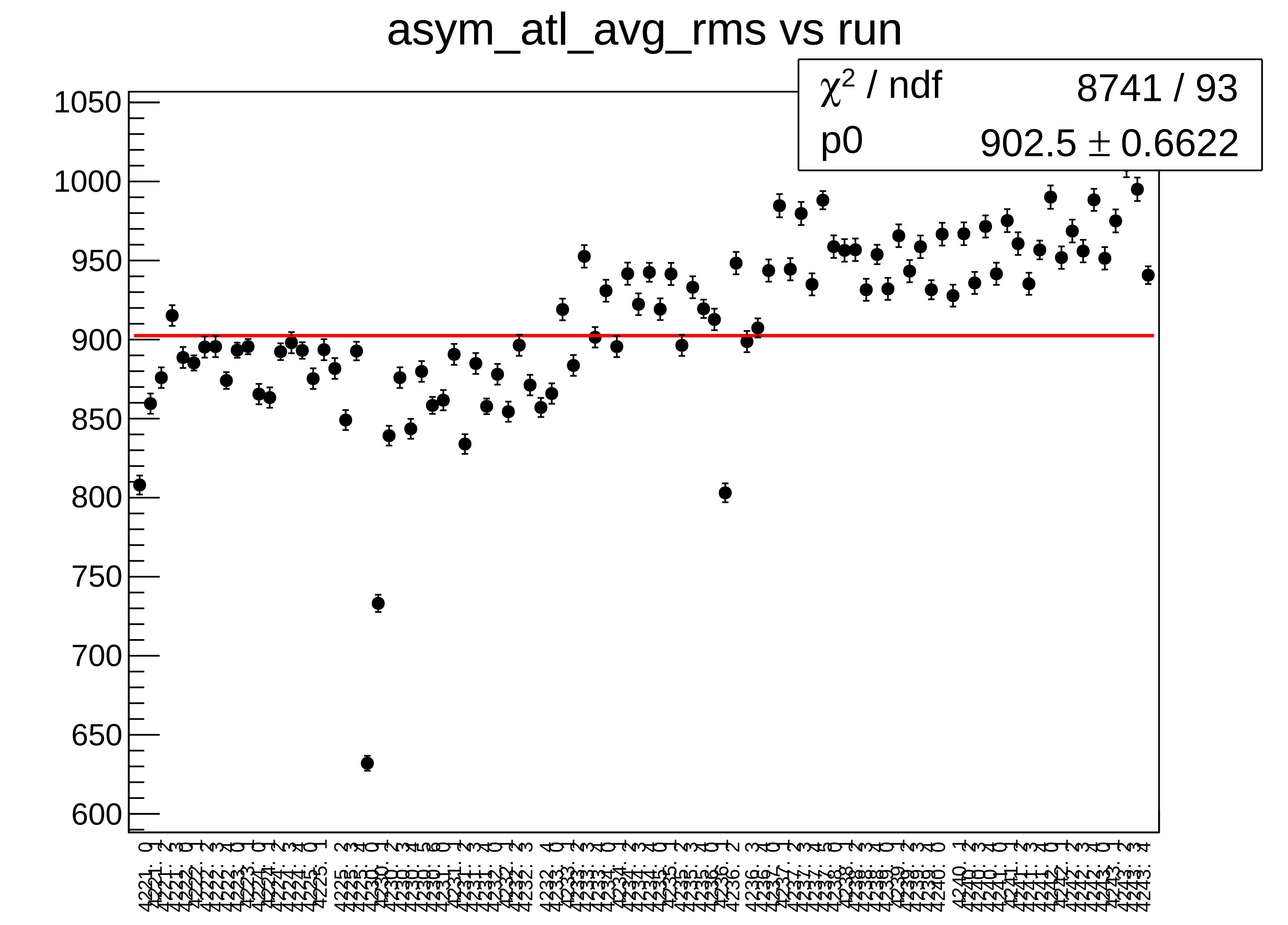

asym_atl_avg_correction_mean vs run
χ^2 / ndf 101.4 / 93
p0 6.893 ± 883.8
pull
Entries 94
Mean 20.84
Std Dev 124.5
pull1D
Entries 94
Mean 0.001904
Std Dev 1.039



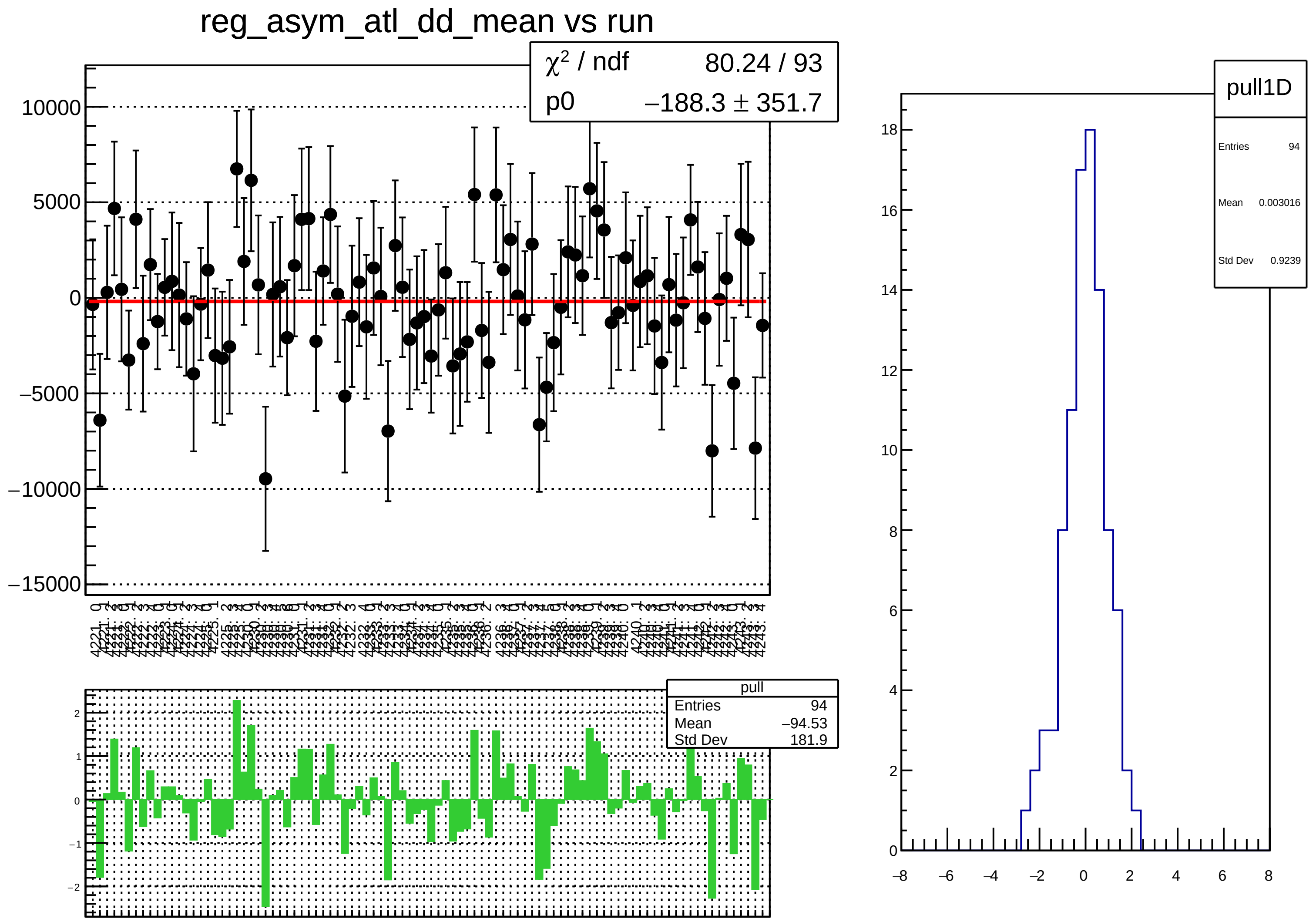
asym_atl_avg_correction_rms vs run
χ² / ndf 1.16e+04 / 93
p0 851.1 ± 0.625
1000
950
900
850
800
750
700
650
600
550



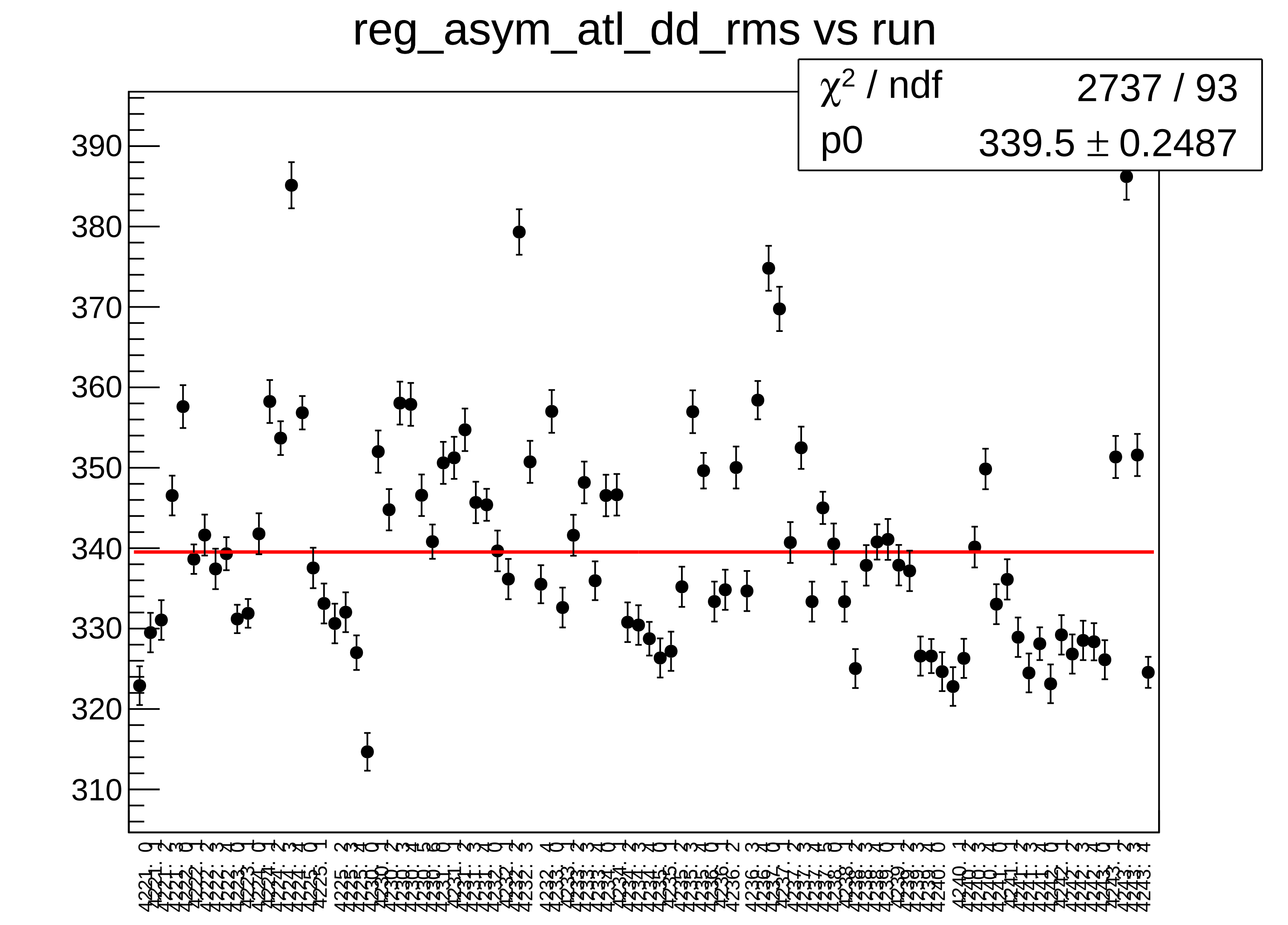
asym_atl_avg_mean vs run
χ^2 / ndf 103.9 / 93
p0 398.9 ± 936.4
pull
Entries 94
Mean 173.2
Std Dev 89.21
pull1D
Entries 94
Mean −0.005012
Std Dev 1.052

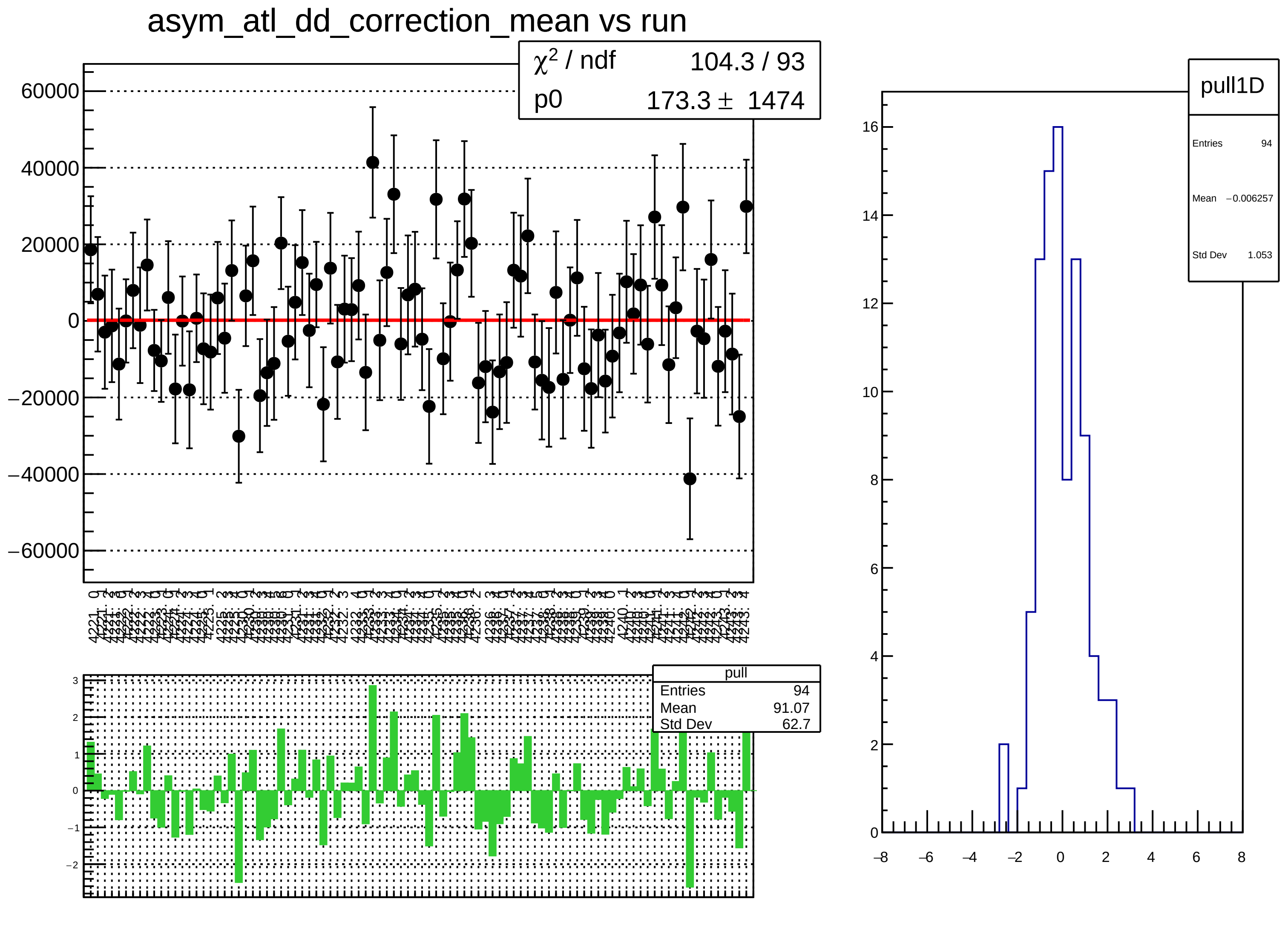


asym_atl_avg_rms vs run
χ^2 / ndf 8741 / 93
p0 902.5 ± 0.6622
1050
1000
950
900
850
800
750
700
650
600

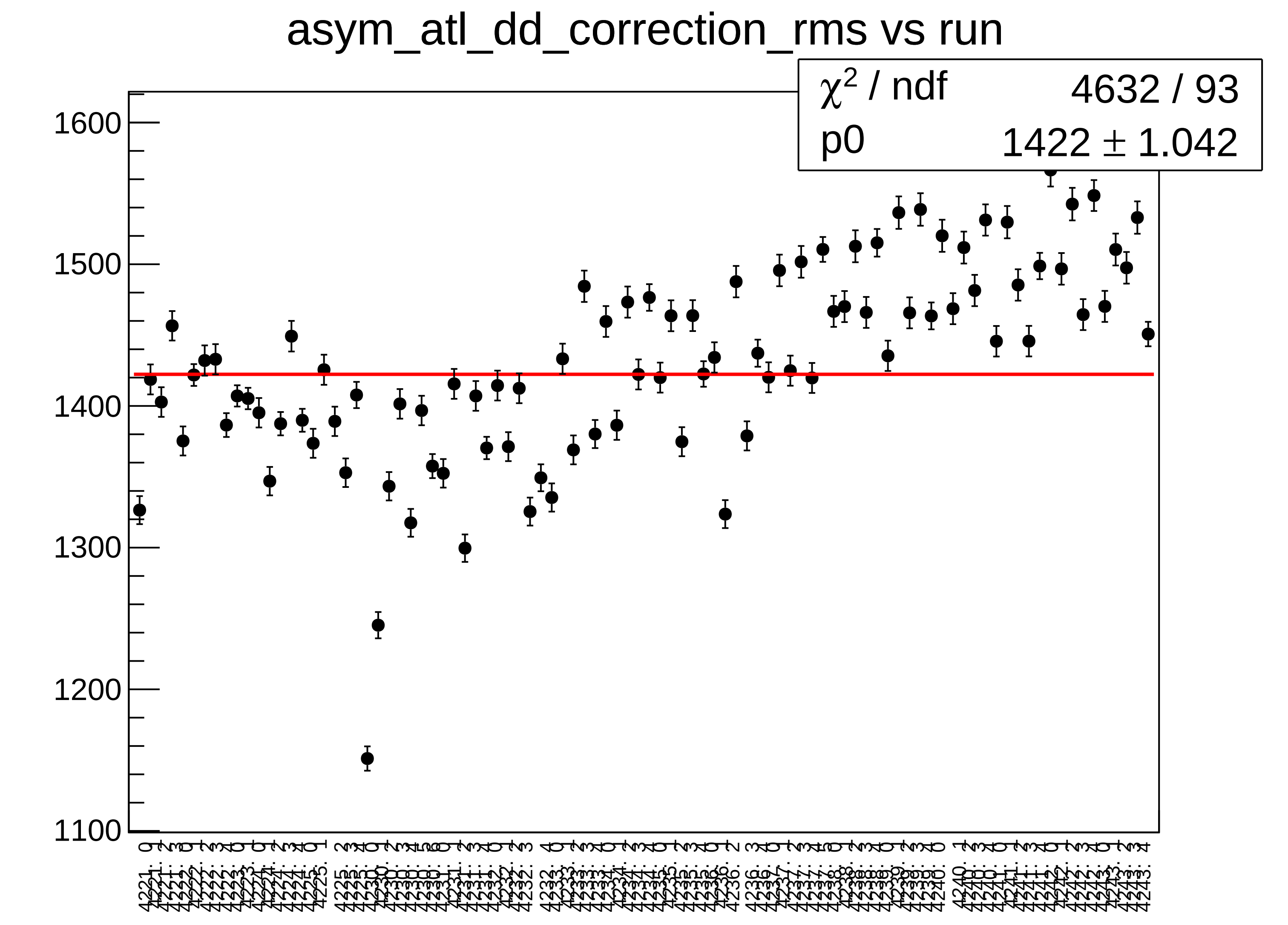


reg_asym_atl_dd_mean vs run
χ2 / ndf 80.24 / 93
p0 −188.3 ± 351.7
pull
Entries 94
Mean −94.53
Std Dev 181.9
pull1D
Entries 94
Mean 0.003016
Std Dev 0.9239

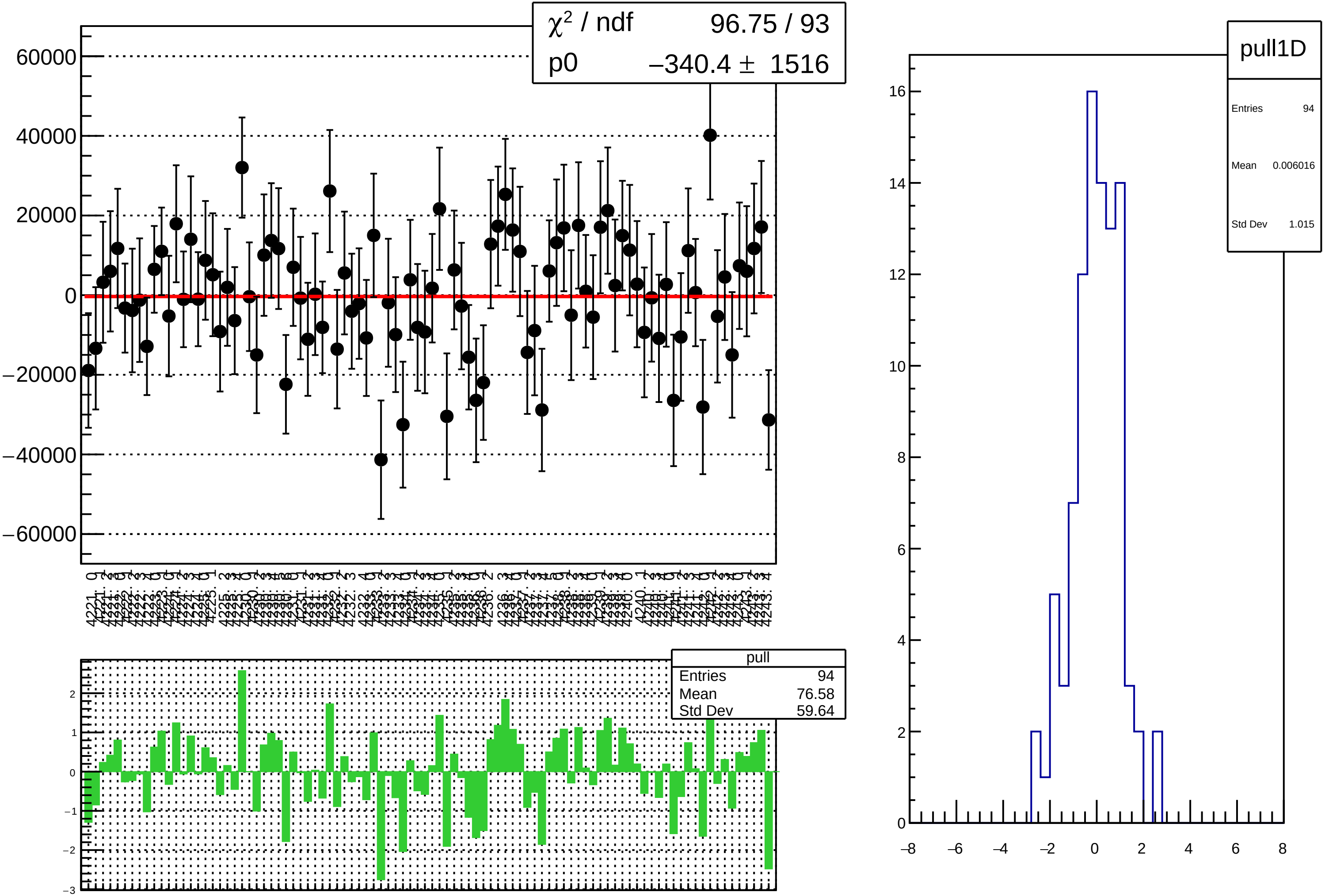

reg_asym_atl_dd_rms vs run
χ2 / ndf 2737 / 93
p0 339.5 ± 0.2487
390
380
370
360
350
340
330
320
310

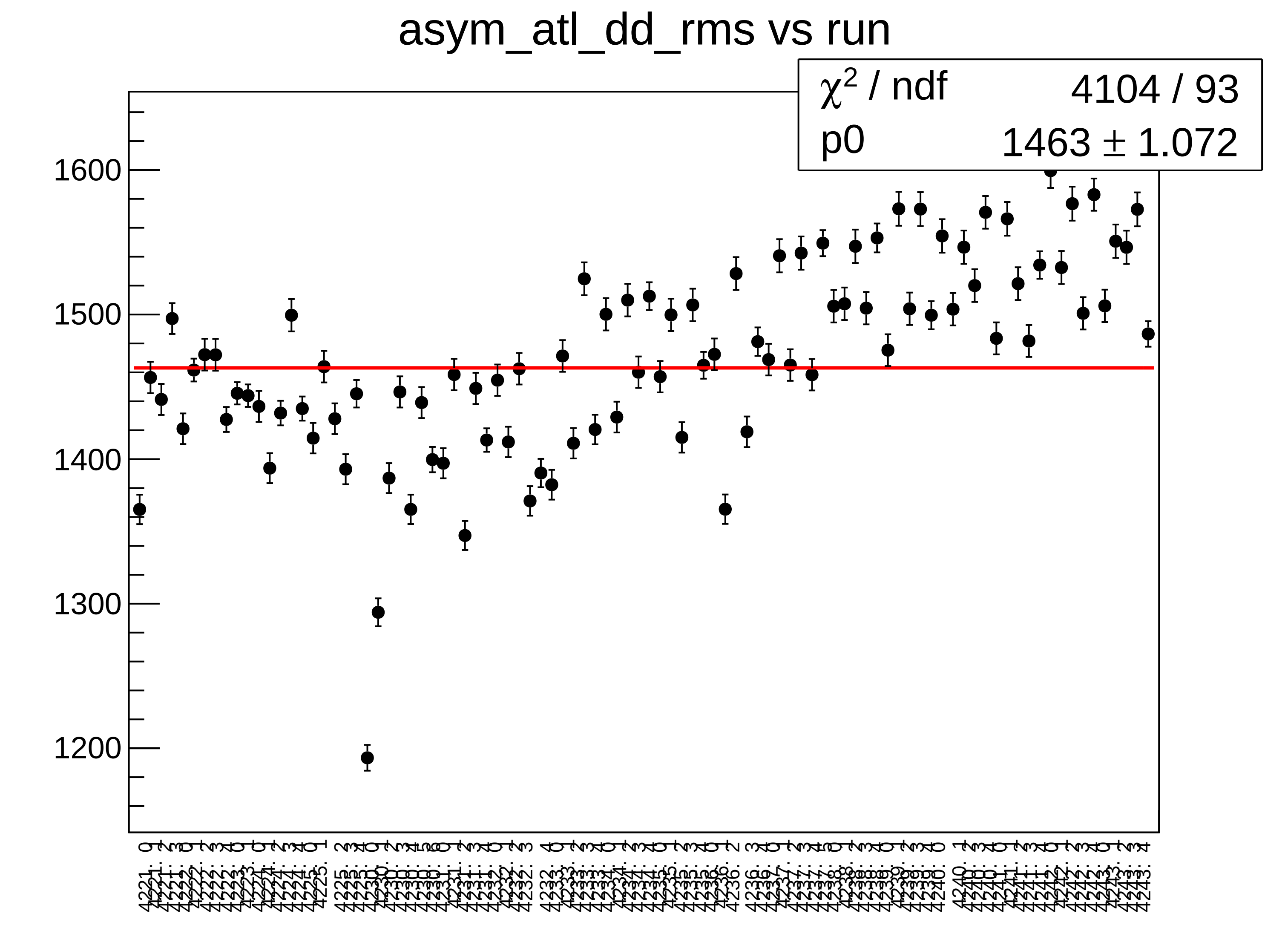


asym_atl_dd_correction_mean vs run
χ^2 / ndf 104.3 / 93
p0 173.3 ± 1474
pull
Entries 94
Mean 91.07
Std Dev 62.7
pull1D
Entries 94
Mean −0.006257
Std Dev 1.053

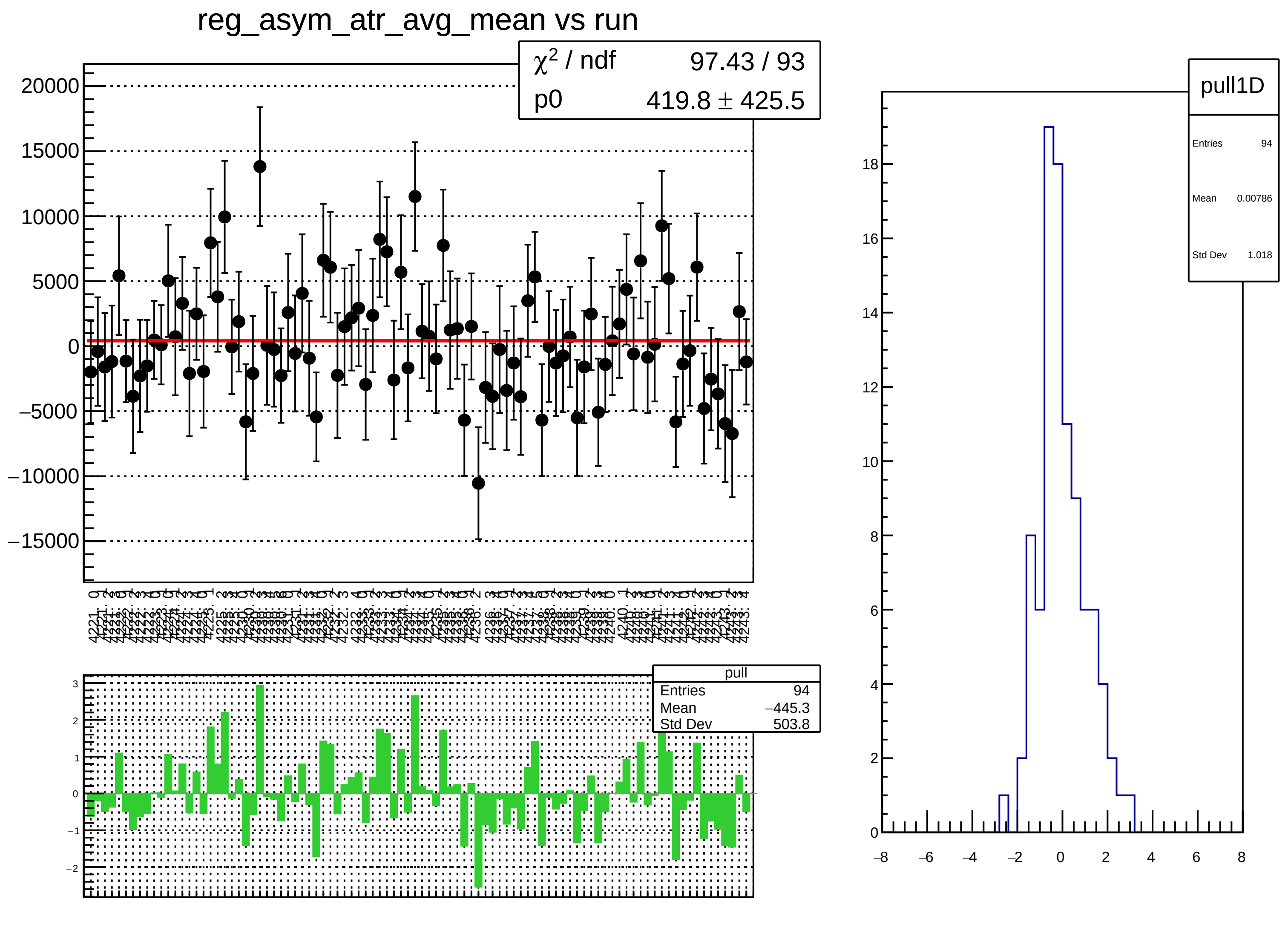

asym_atl_dd_correction_rms vs run
χ2 / ndf 4632 / 93
p0 1422 ± 1.042
1600
1500
1400
1300
1200
1100

asym_atl_dd_mean vs run

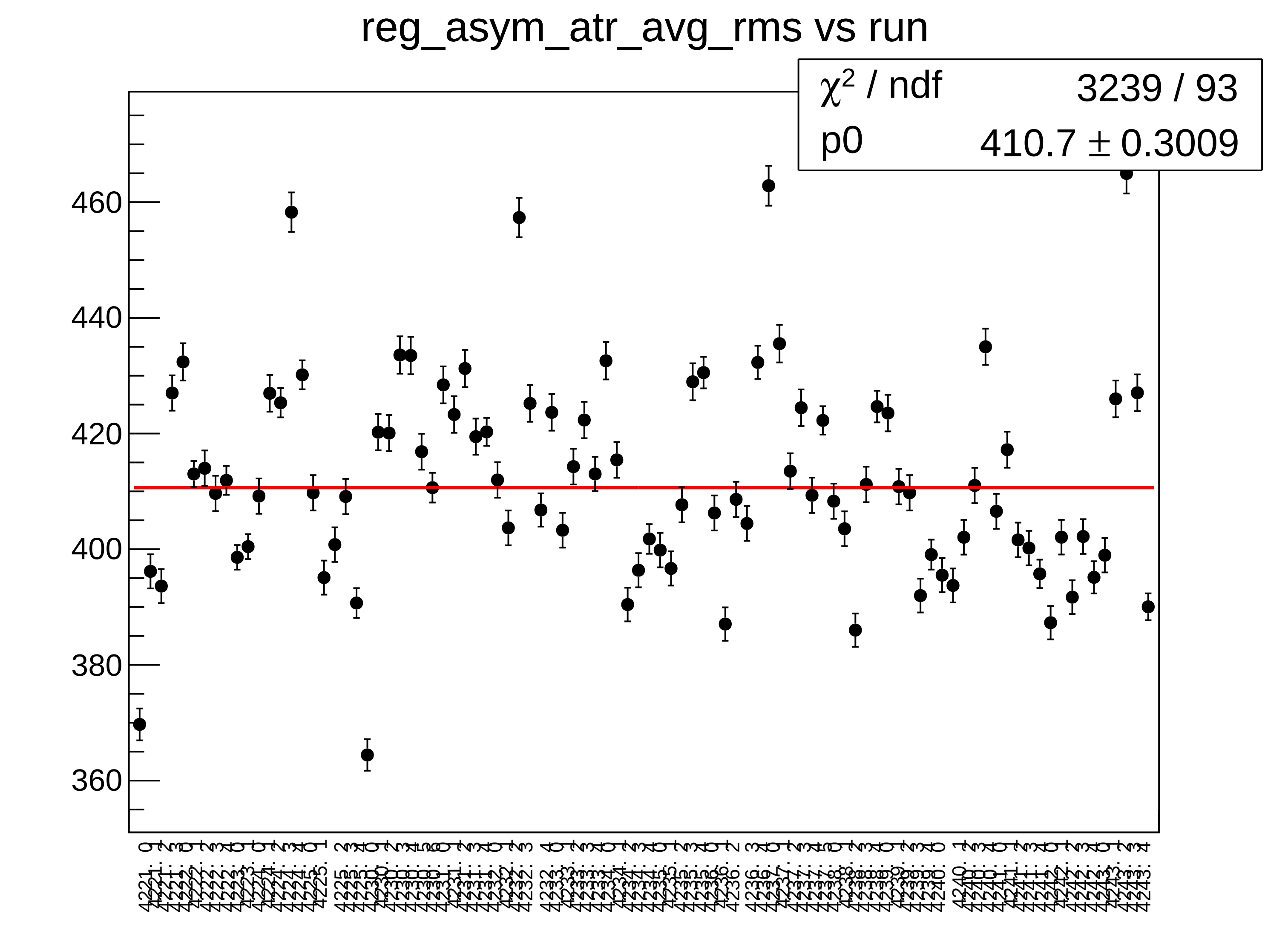


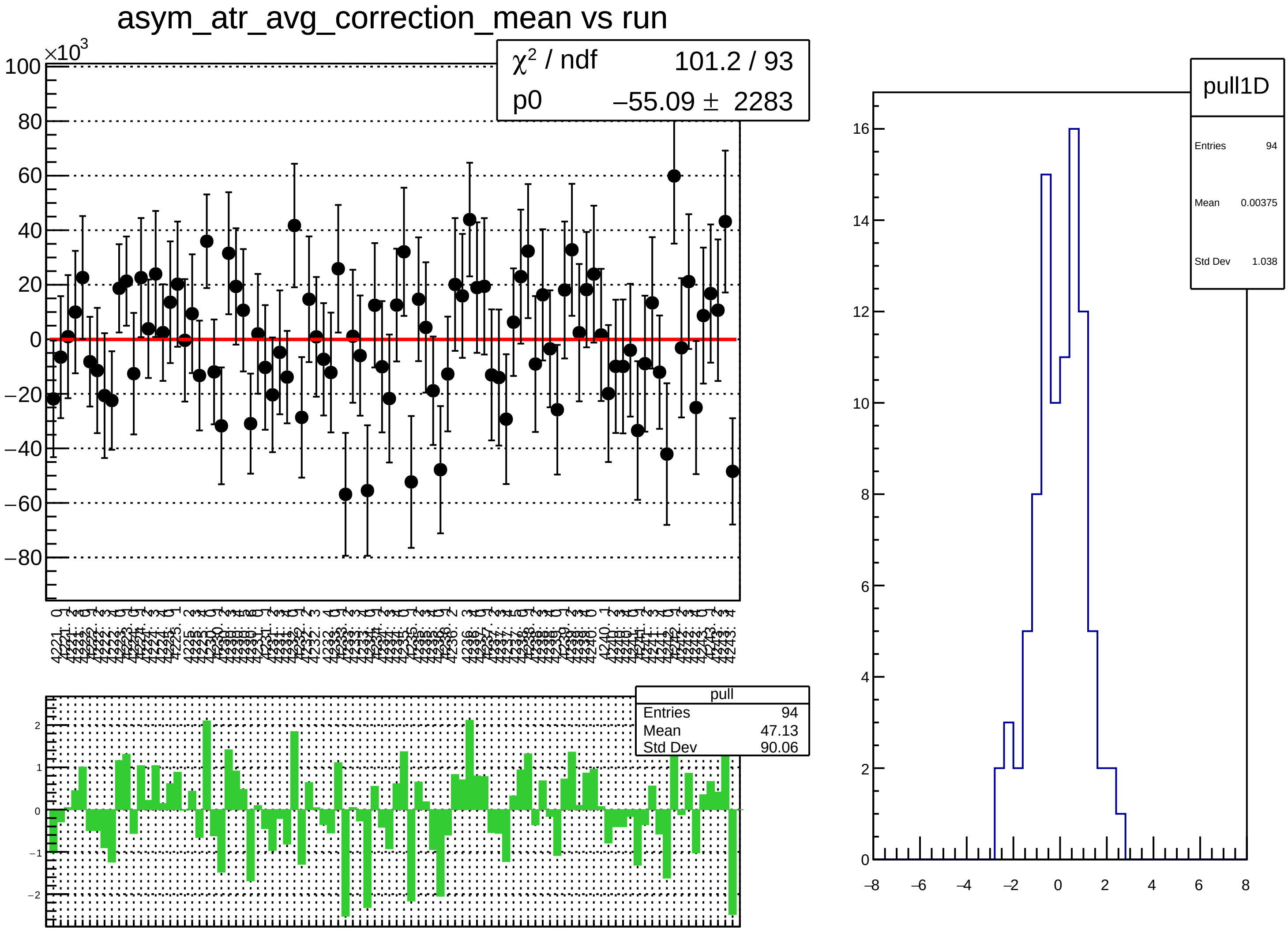


asym_atl_dd_rms vs run
χ2 / ndf 4104 / 93
p0 1463 ± 1.072
1600
1500
1400
1300
1200

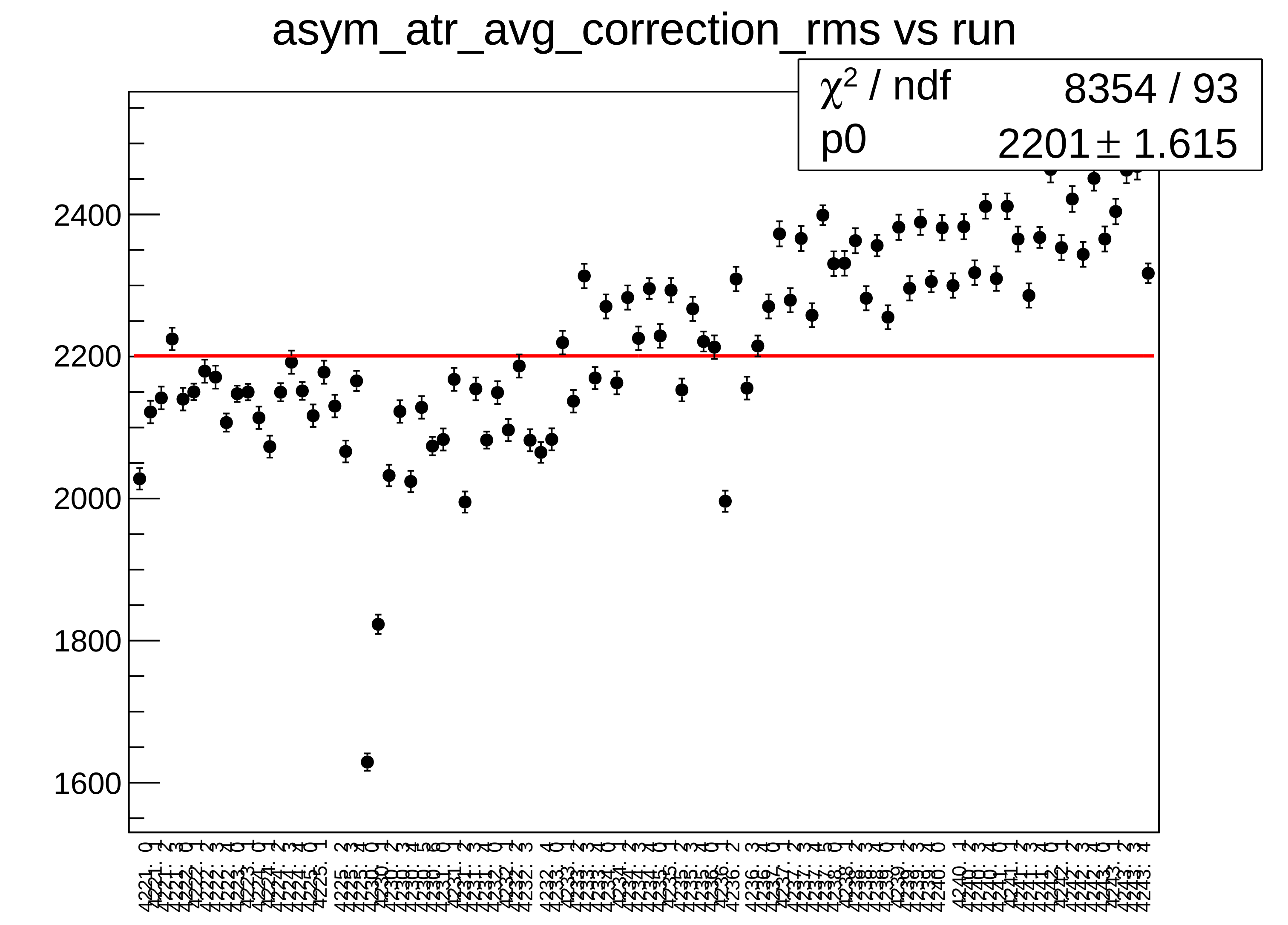


reg_asym_atr_avg_mean vs run
χ2 / ndf 97.43 / 93
p0 419.8 ± 425.5
pull
Entries 94
Mean −445.3
Std Dev 503.8
pull1D
Entries 94
Mean 0.00786
Std Dev 1.018

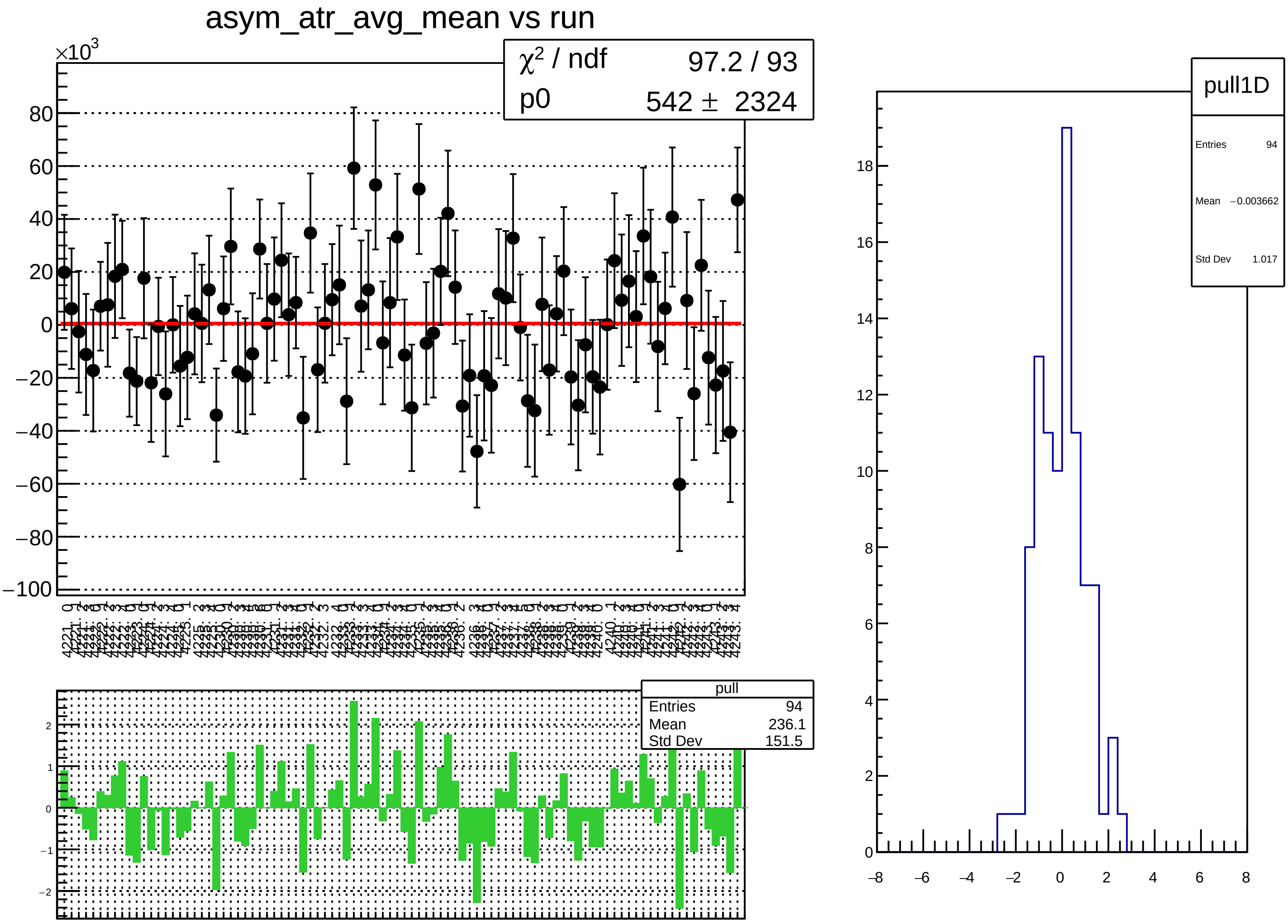

reg_asym_atr_avg_rms vs run
χ2 / ndf 3239 / 93
p0 410.7 ± 0.3009
460
440
420
400
380
360



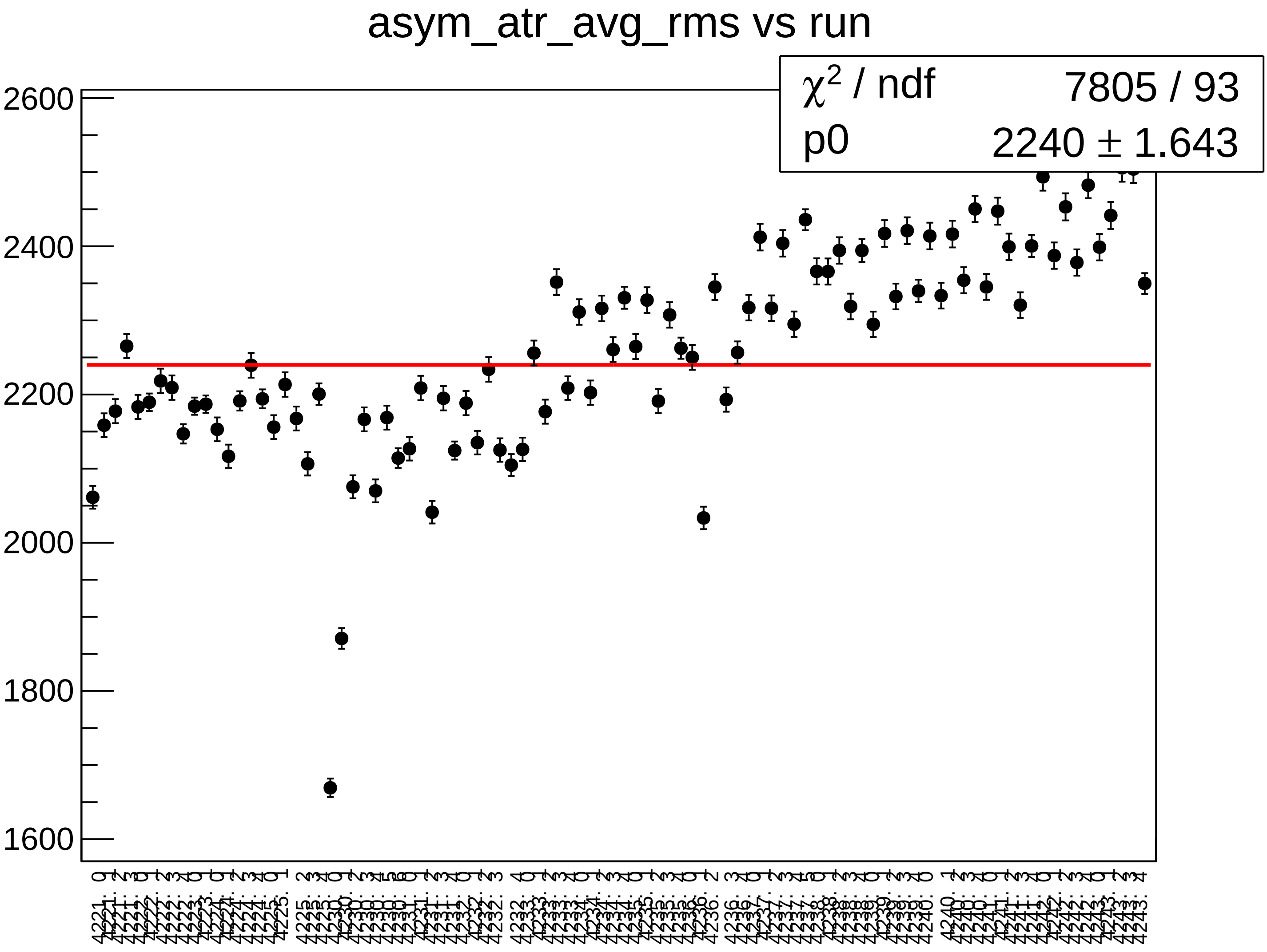
asym_atr_avg_correction_mean vs run
χ² / ndf 101.2 / 93
p0 −55.09 ± 2283
×10³
pull
Entries 94
Mean 47.13
Std Dev 90.06
pull1D
Entries 94
Mean 0.00375
Std Dev 1.038



asym_atr_avg_correction_rms vs run
χ^2 / ndf 8354 / 93
p0 2201 ± 1.615
2400
2200
2000
1800
1600

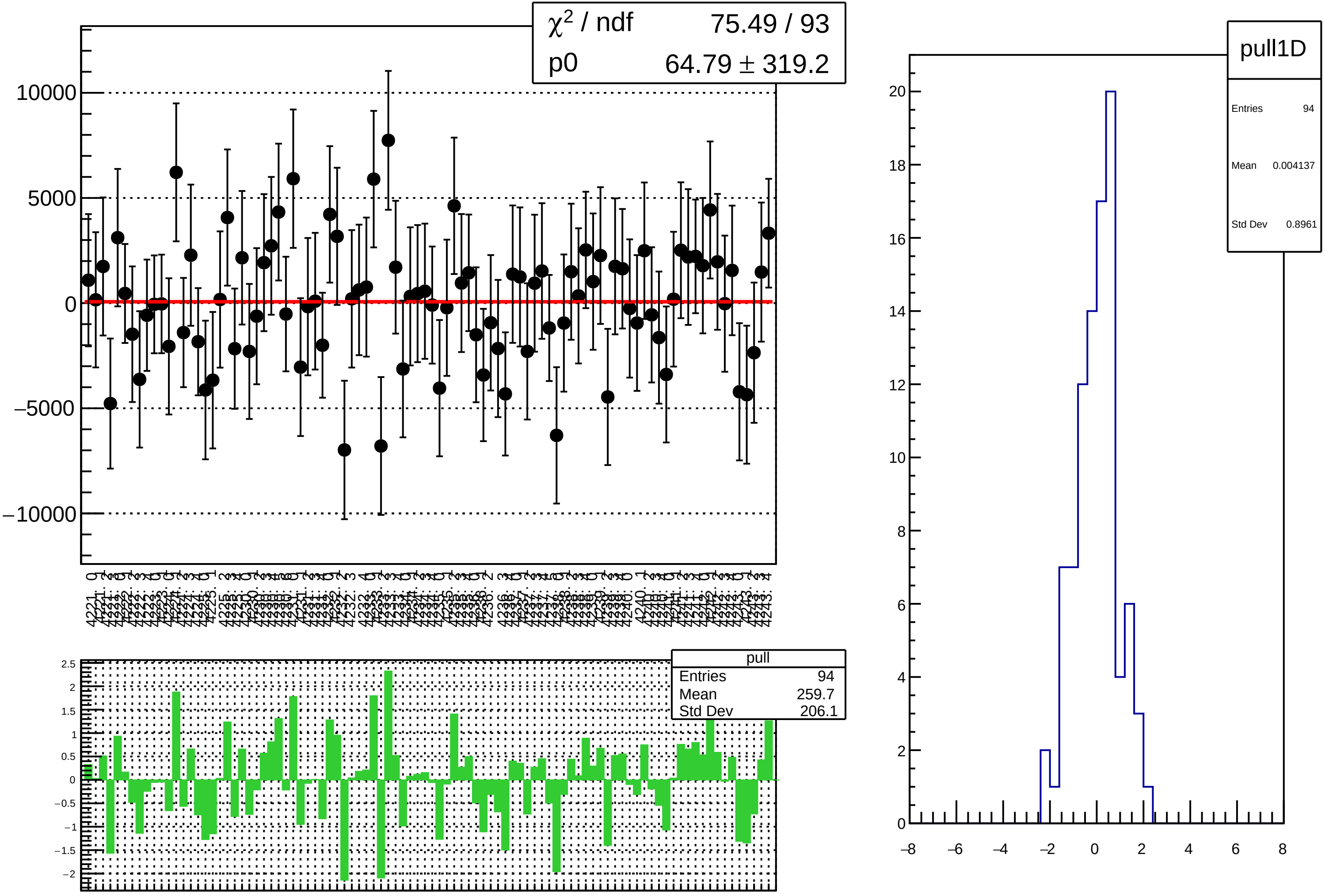


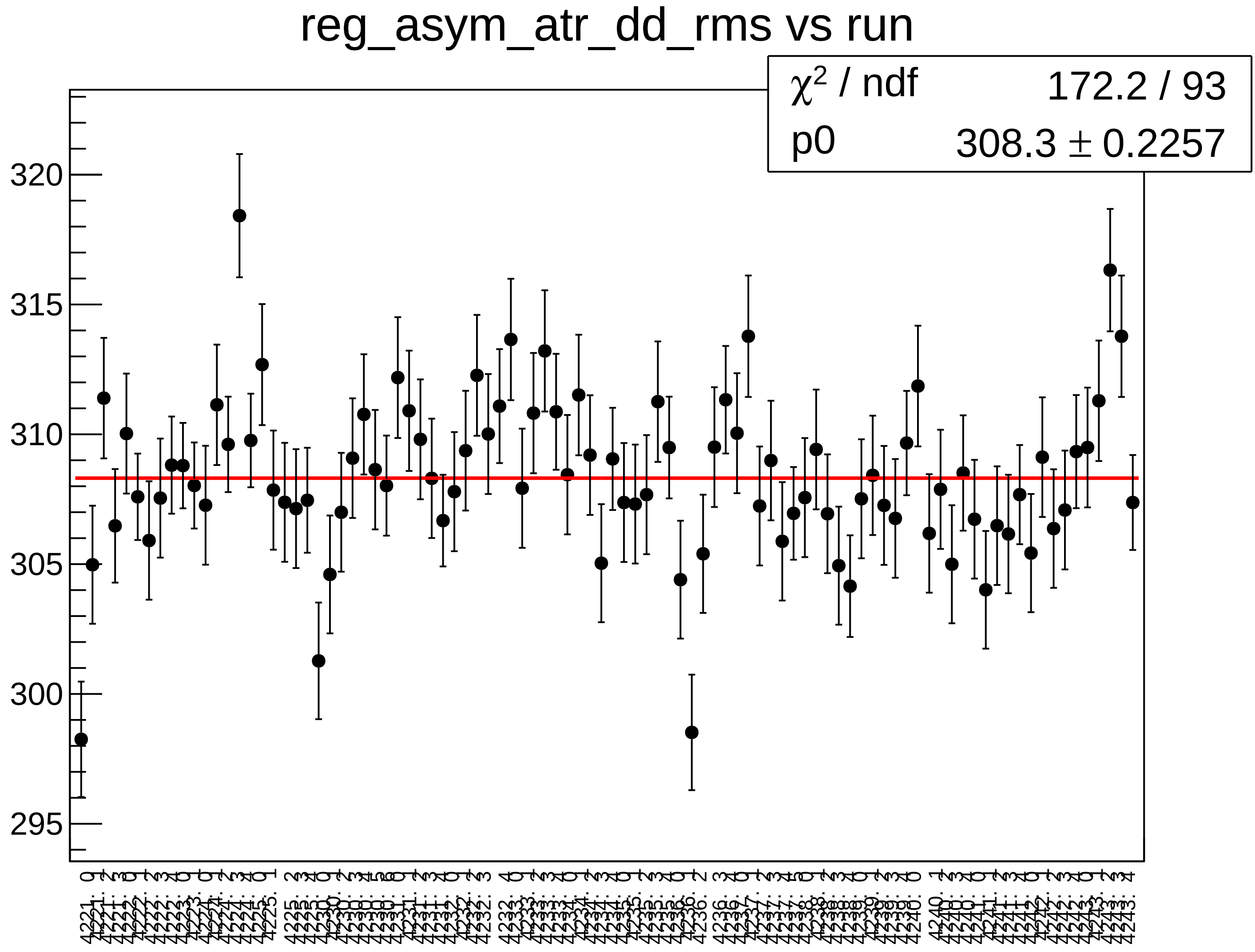
asym_atr_avg_mean vs run
χ2 / ndf 97.2 / 93
p0 542 ± 2324
×10^3
pull
Entries 94
Mean 236.1
Std Dev 151.5
pull1D
Entries 94
Mean −0.003662
Std Dev 1.017



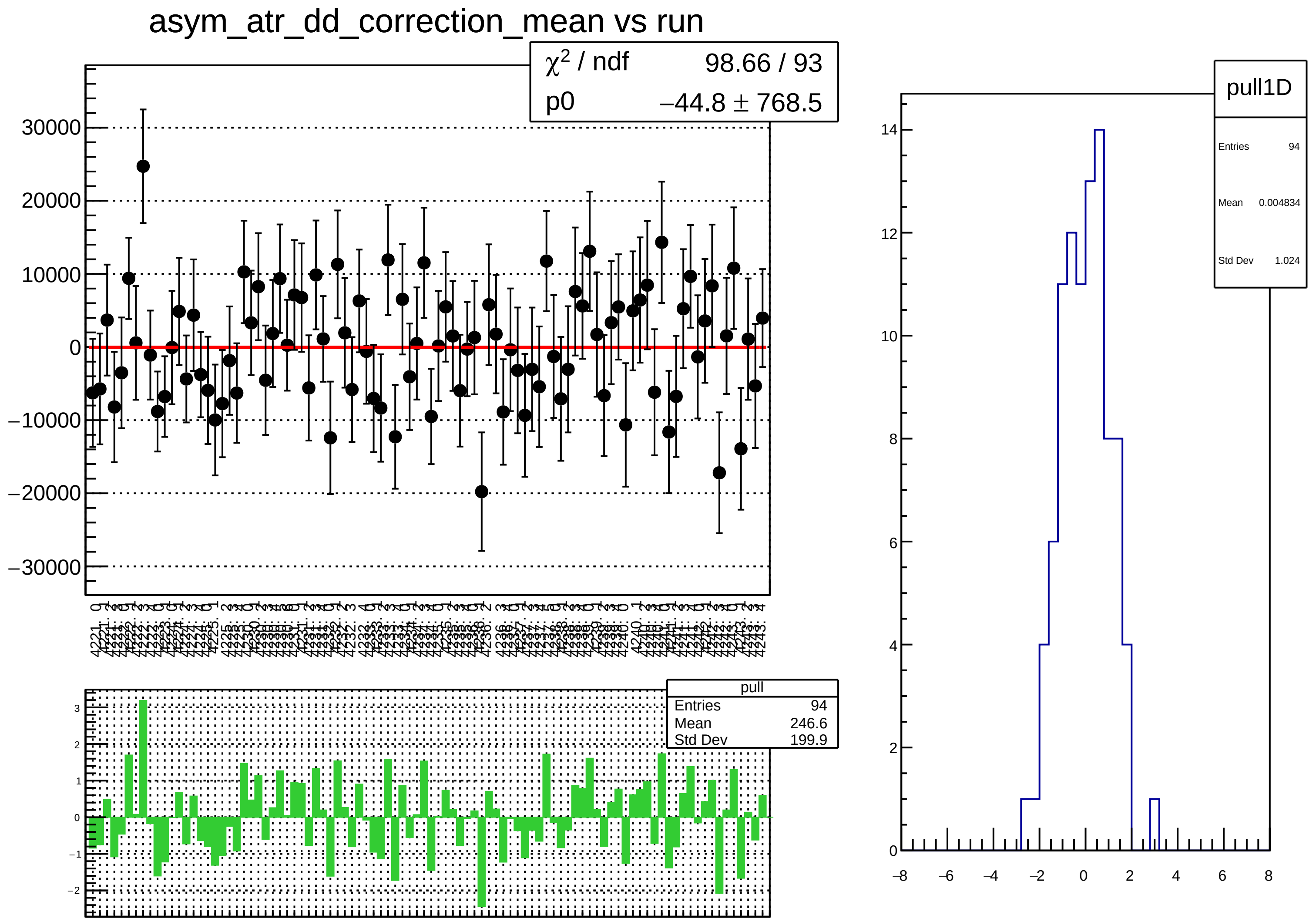
asym_atr_avg_rms vs run
χ2 / ndf 7805 / 93
p0 2240 ± 1.643
2600
2400
2200
2000
1800
1600

reg_asym_atr_dd_mean vs run

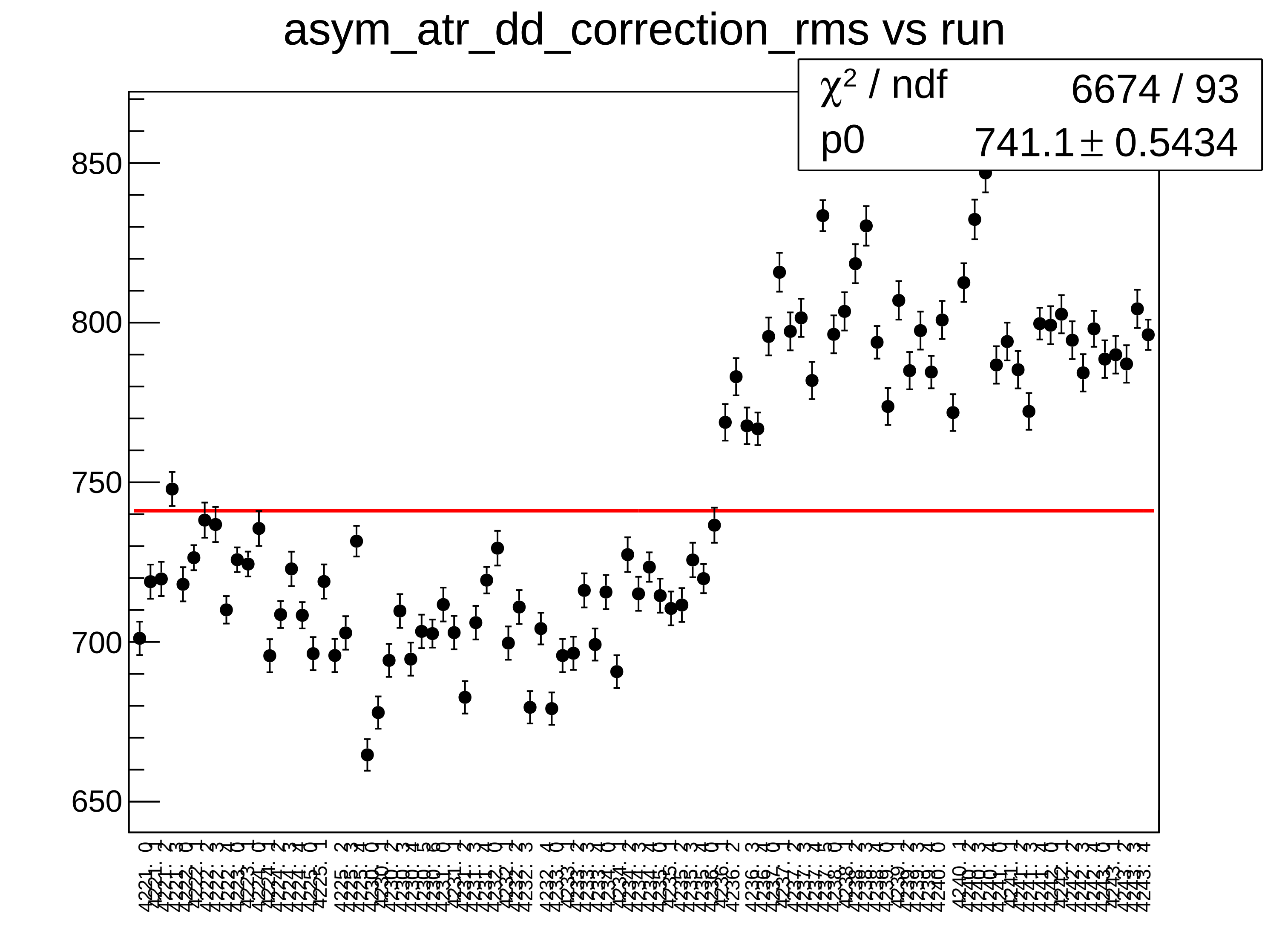




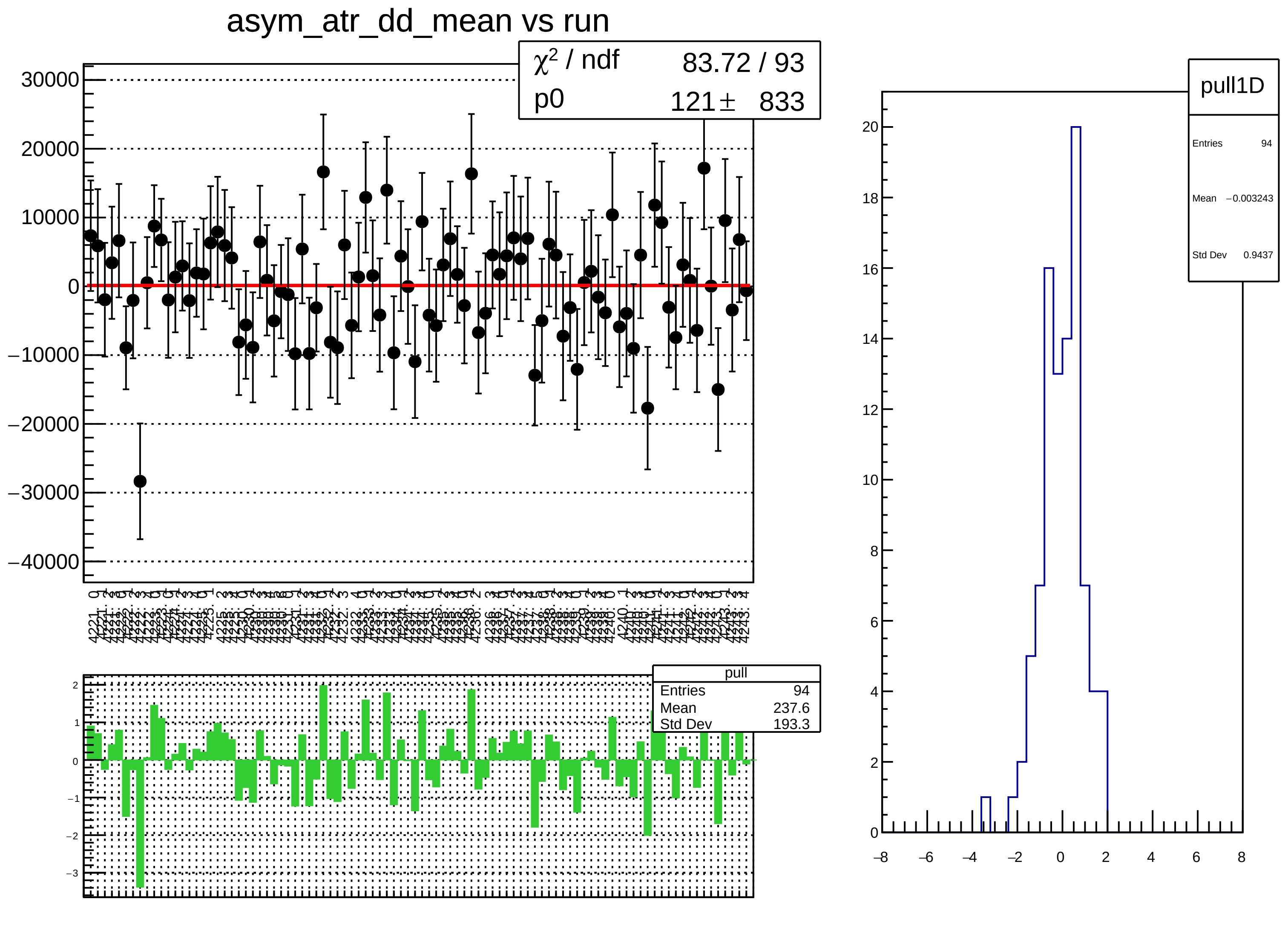
reg_asym_atr_dd_rms vs run
χ2 / ndf 172.2 / 93
p0 308.3 ± 0.2257
320
315
310
305
300
295



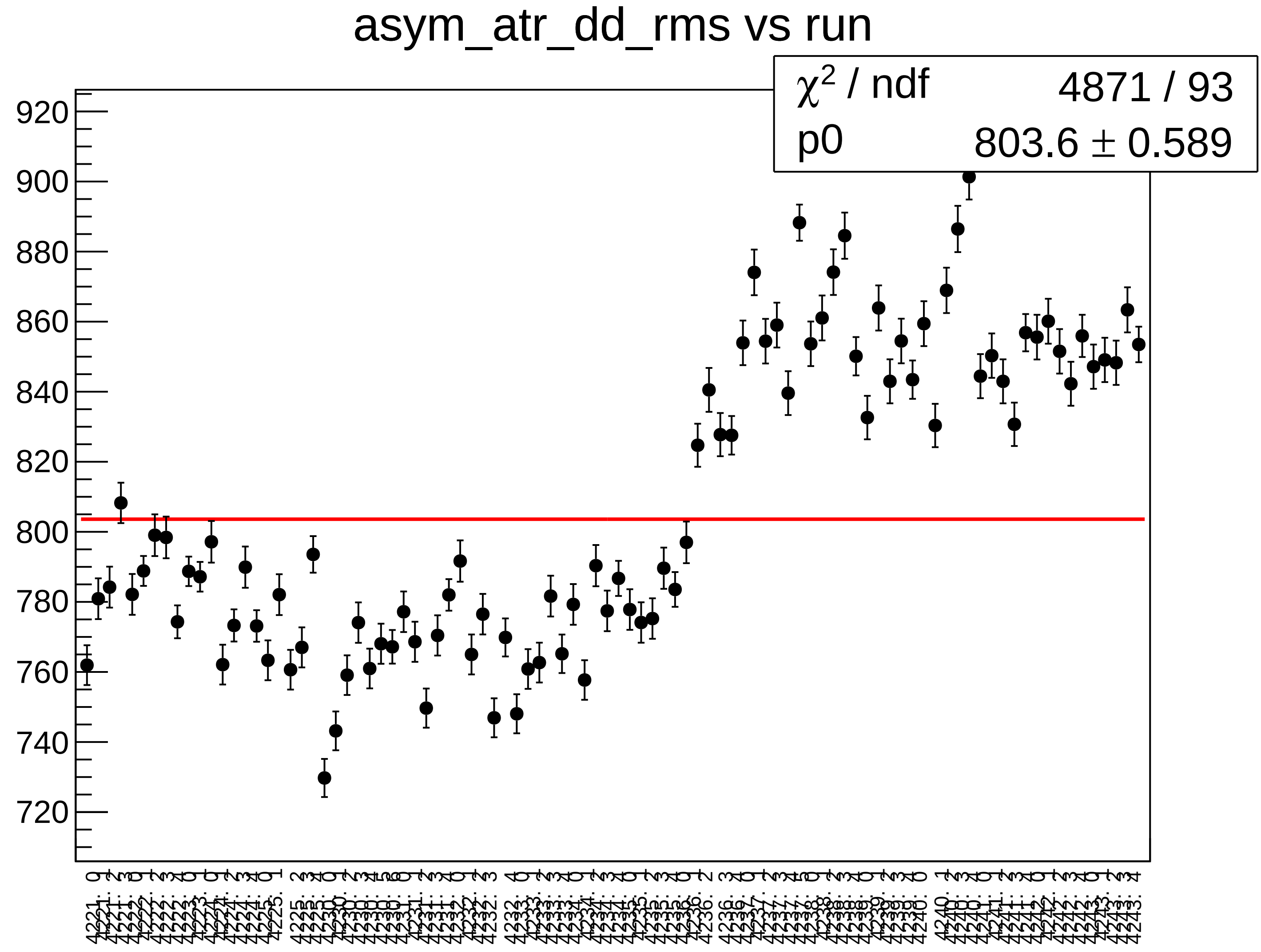
asym_atr_dd_correction_mean vs run
χ^2 / ndf 98.66 / 93
p0 −44.8 ± 768.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 246.6
Std Dev 199.9
pull1D
Entries 94
Mean 0.004834
Std Dev 1.024

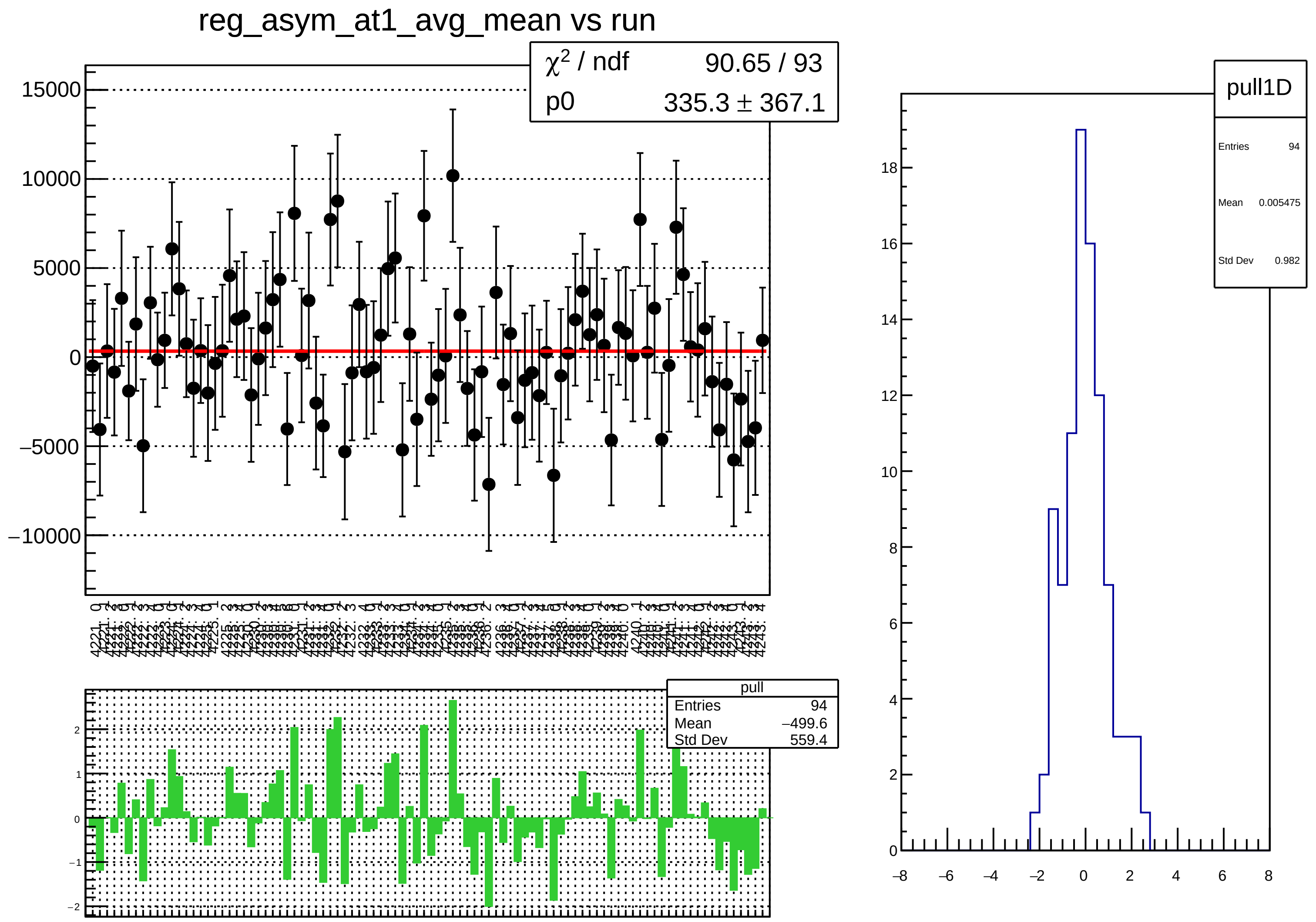


asym_atr_dd_correction_rms vs run
χ^2 / ndf 6674 / 93
p0 741.1 ± 0.5434
850
800
750
700
650

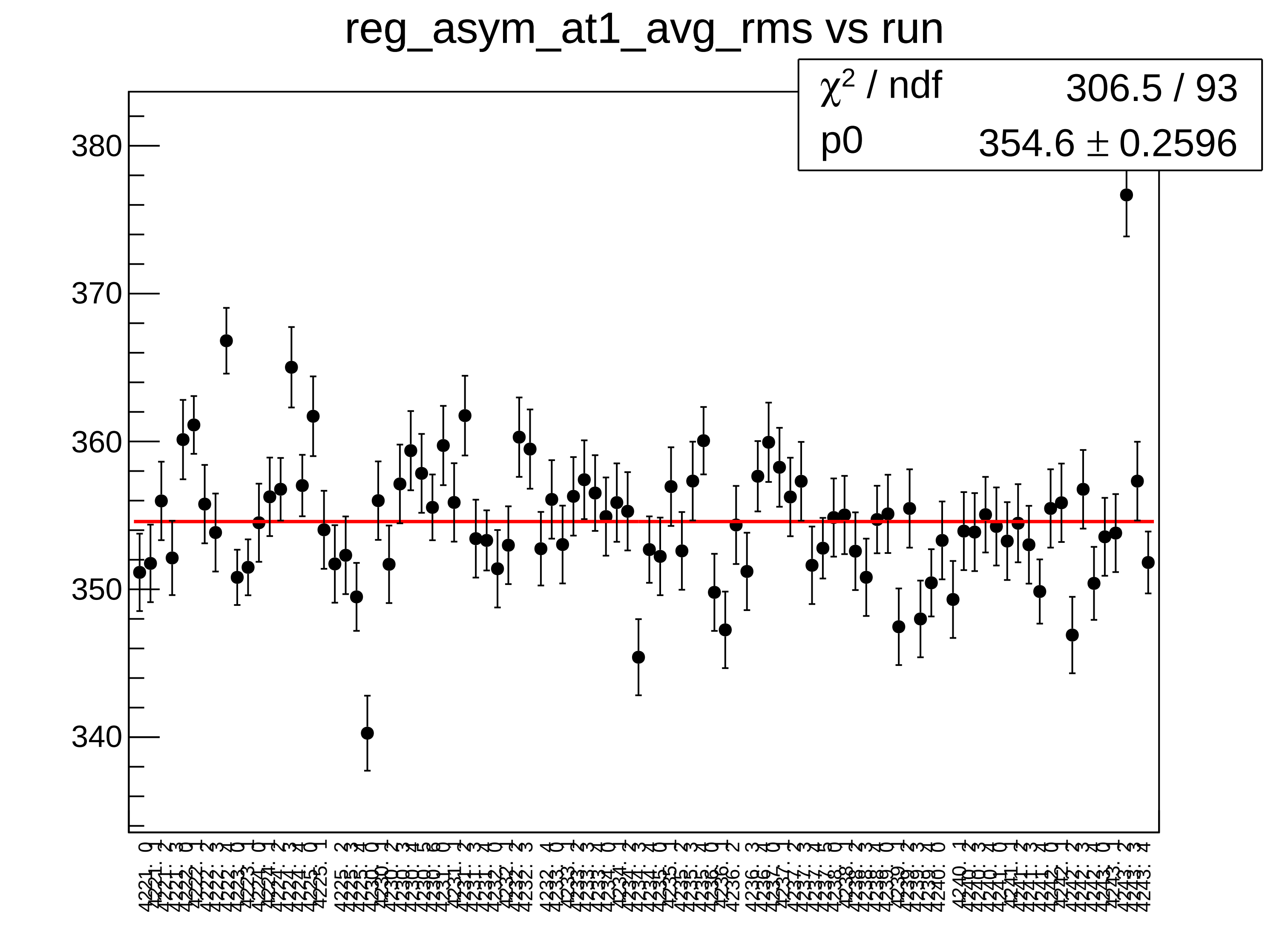


asym_atr_dd_mean vs run
χ^2 / ndf 83.72 / 93
p0 121 ± 833
pull
Entries 94
Mean 237.6
Std Dev 193.3
pull1D
Entries 94
Mean −0.003243
Std Dev 0.9437

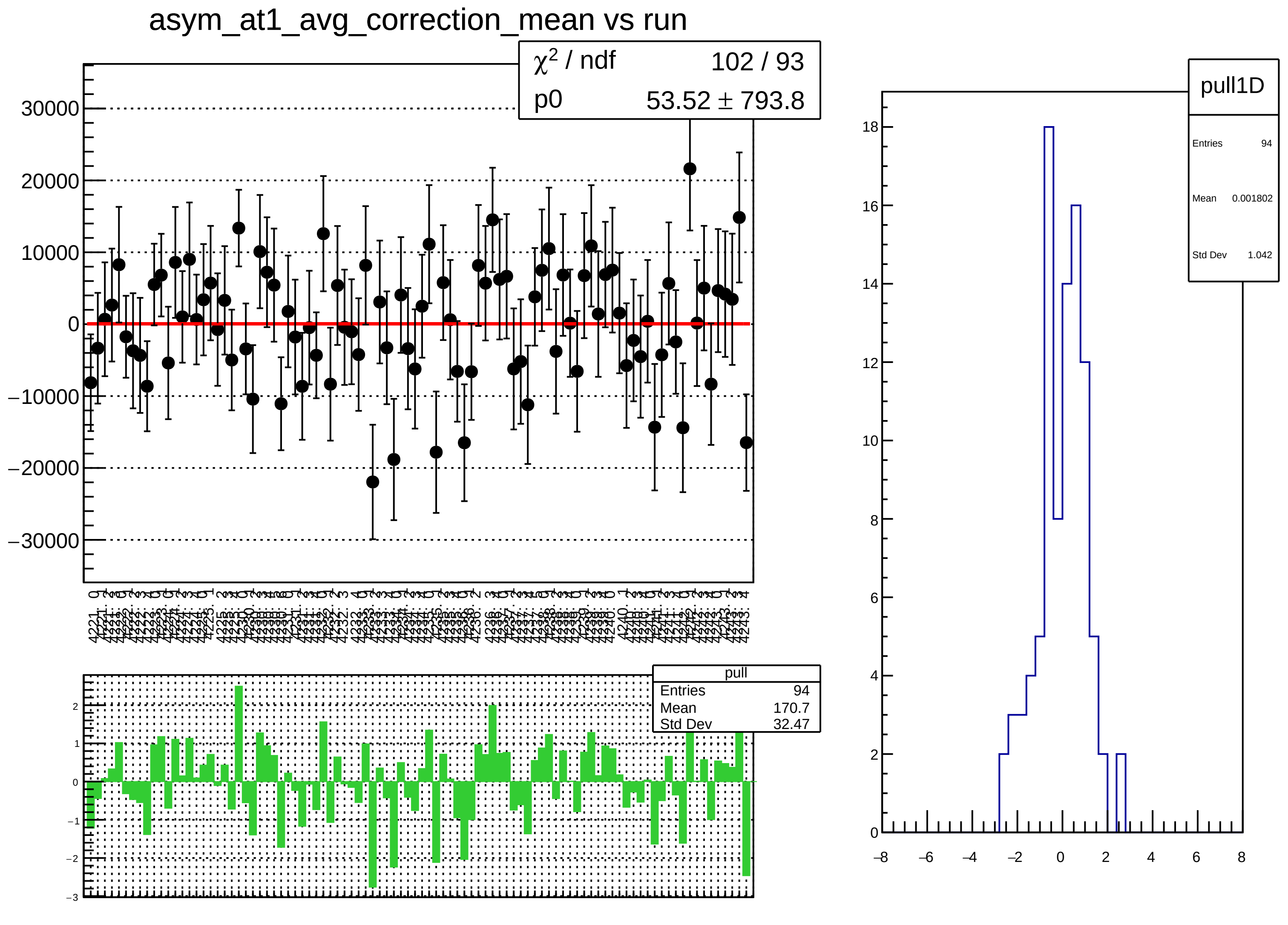

asym_atr_dd_rms vs run
χ^2 / ndf 4871 / 93
p0 803.6 ± 0.589
920
900
880
860
840
820
800
780
760
740
720

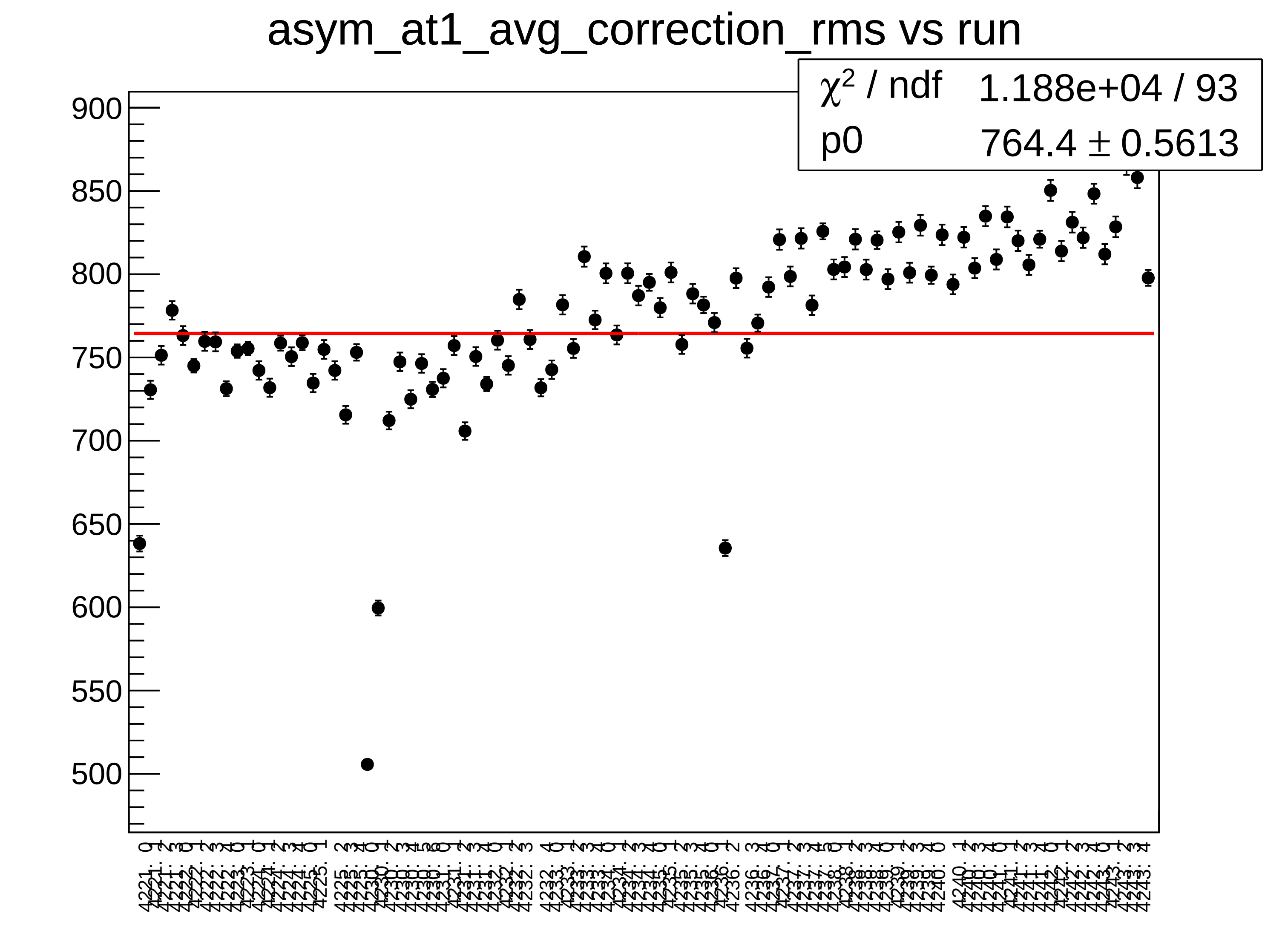


reg_asym_at1_avg_mean vs run
χ^2 / ndf 90.65 / 93
p0 335.3 ± 367.1
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −499.6
Std Dev 559.4
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.005475
Std Dev 0.982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

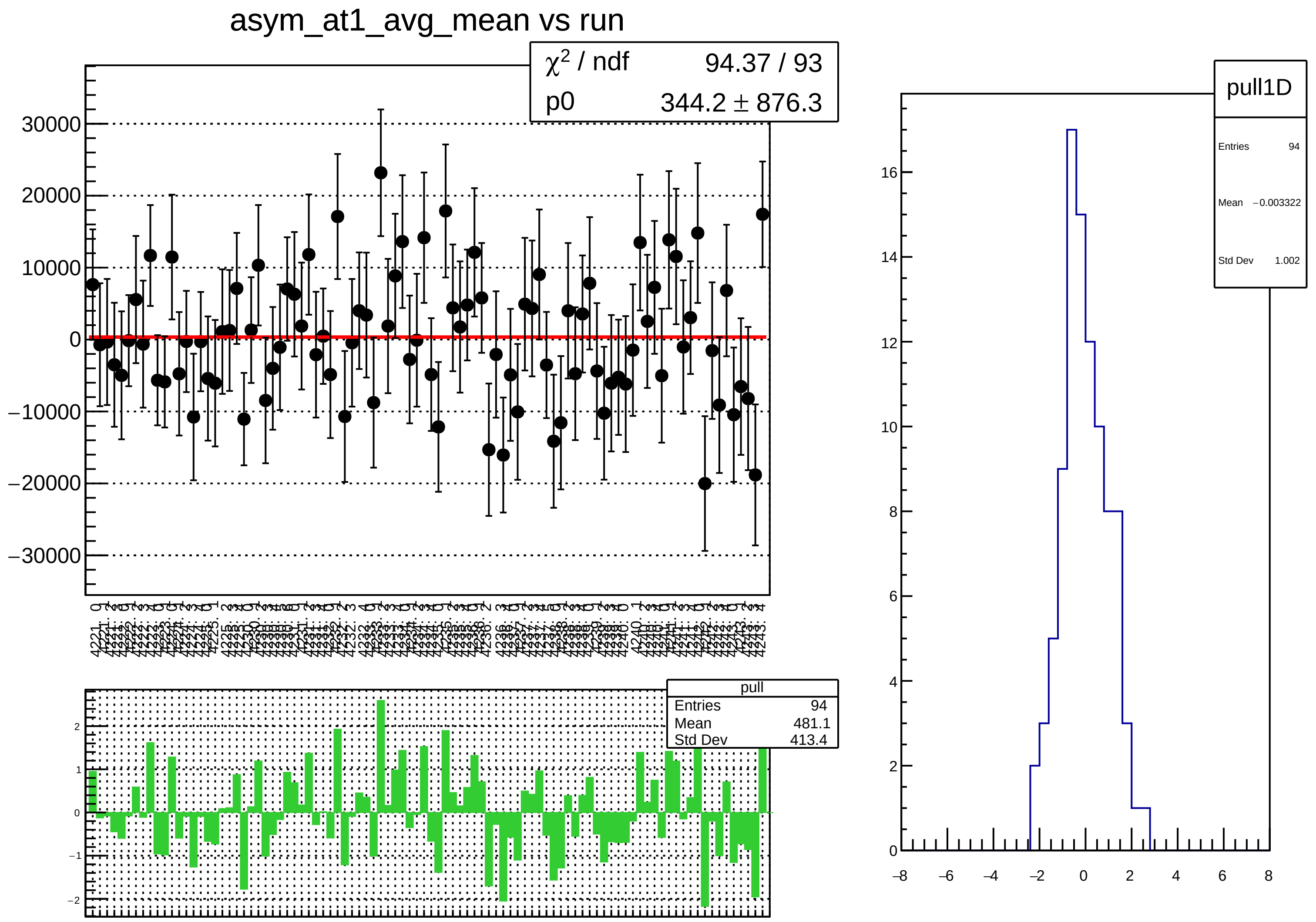


reg_asym_at1_avg_rms vs run
χ2 / ndf 306.5 / 93
p0 354.6 ± 0.2596
380
370
360
350
340

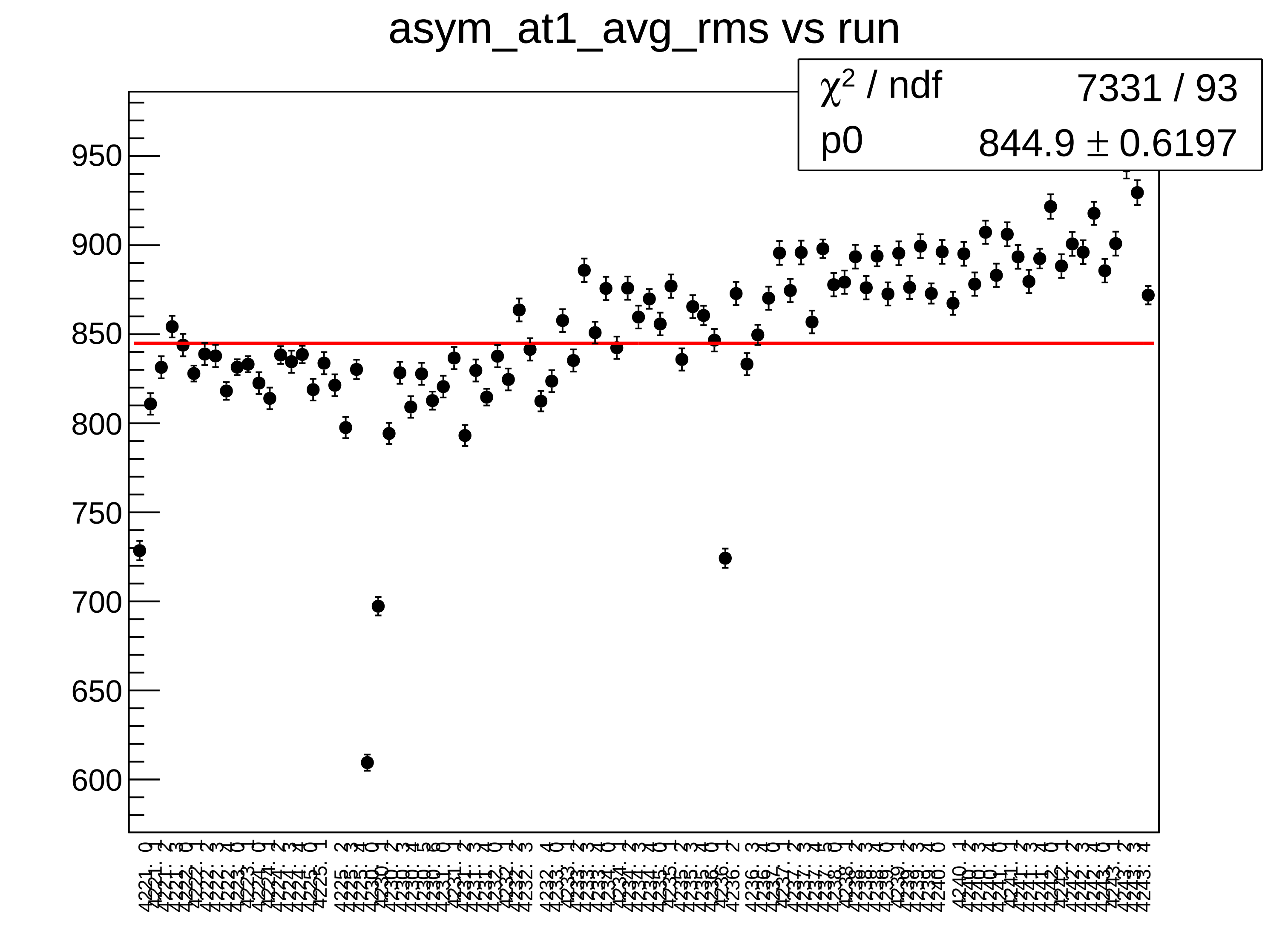

asym_at1_avg_correction_mean vs run
χ^2 / ndf 102 / 93
p0 53.52 ± 793.8
pull
Entries 94
Mean 170.7
Std Dev 32.47
pull1D
Entries 94
Mean 0.001802
Std Dev 1.042

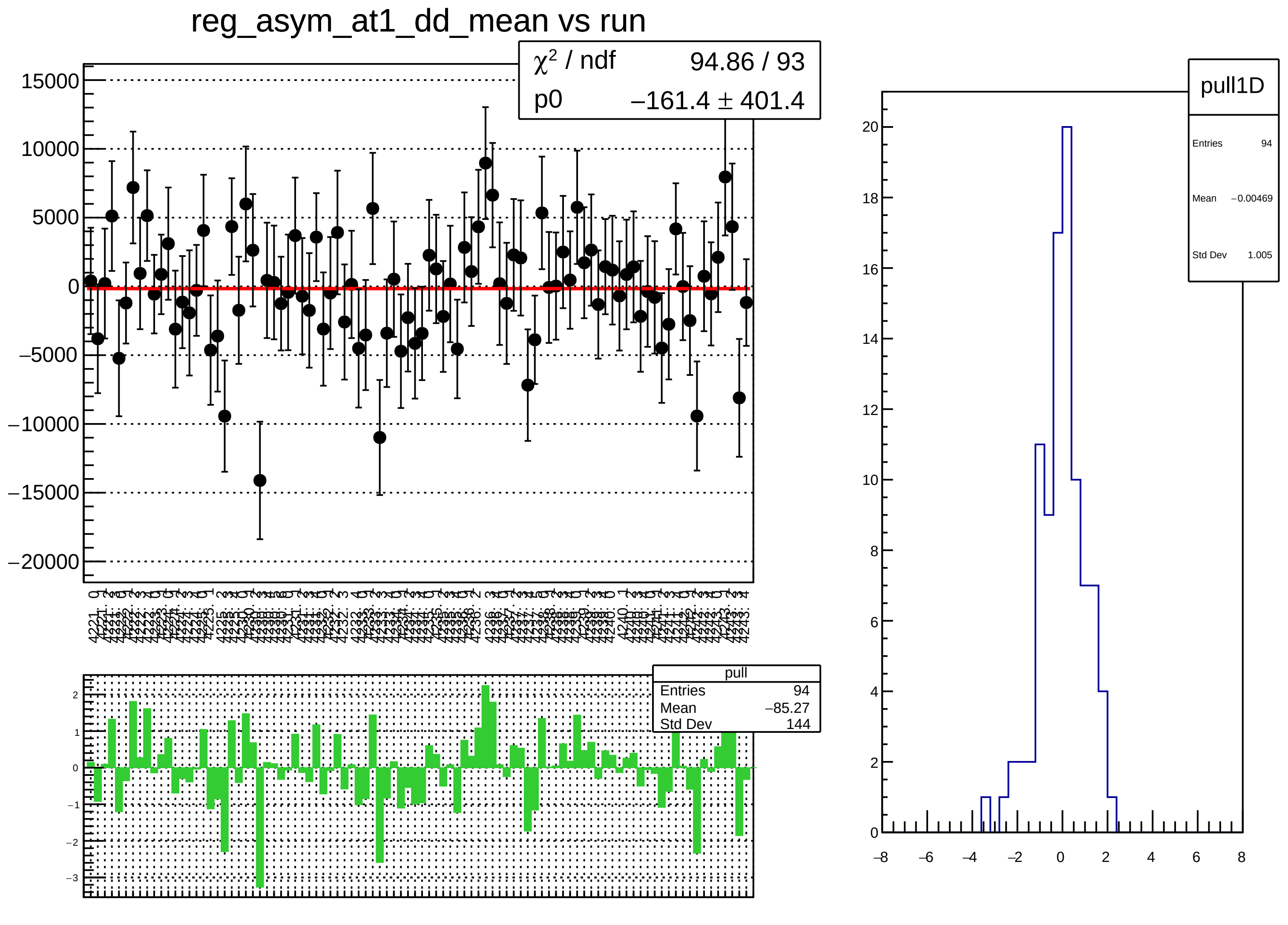


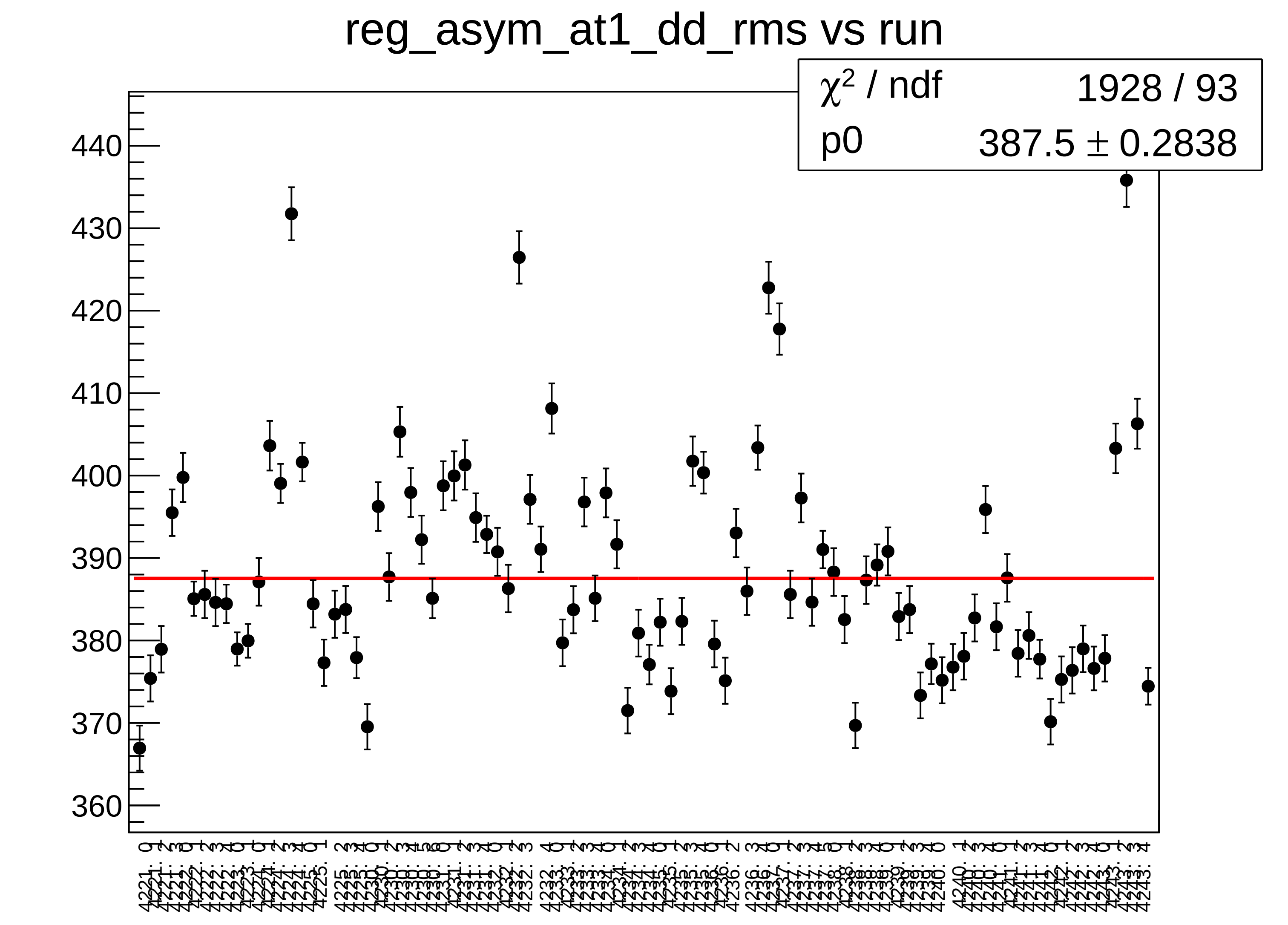
asym_at1_avg_correction_rms vs run
χ² / ndf 1.188e+04 / 93
p0 764.4 ± 0.5613
900
850
800
750
700
650
600
550
500



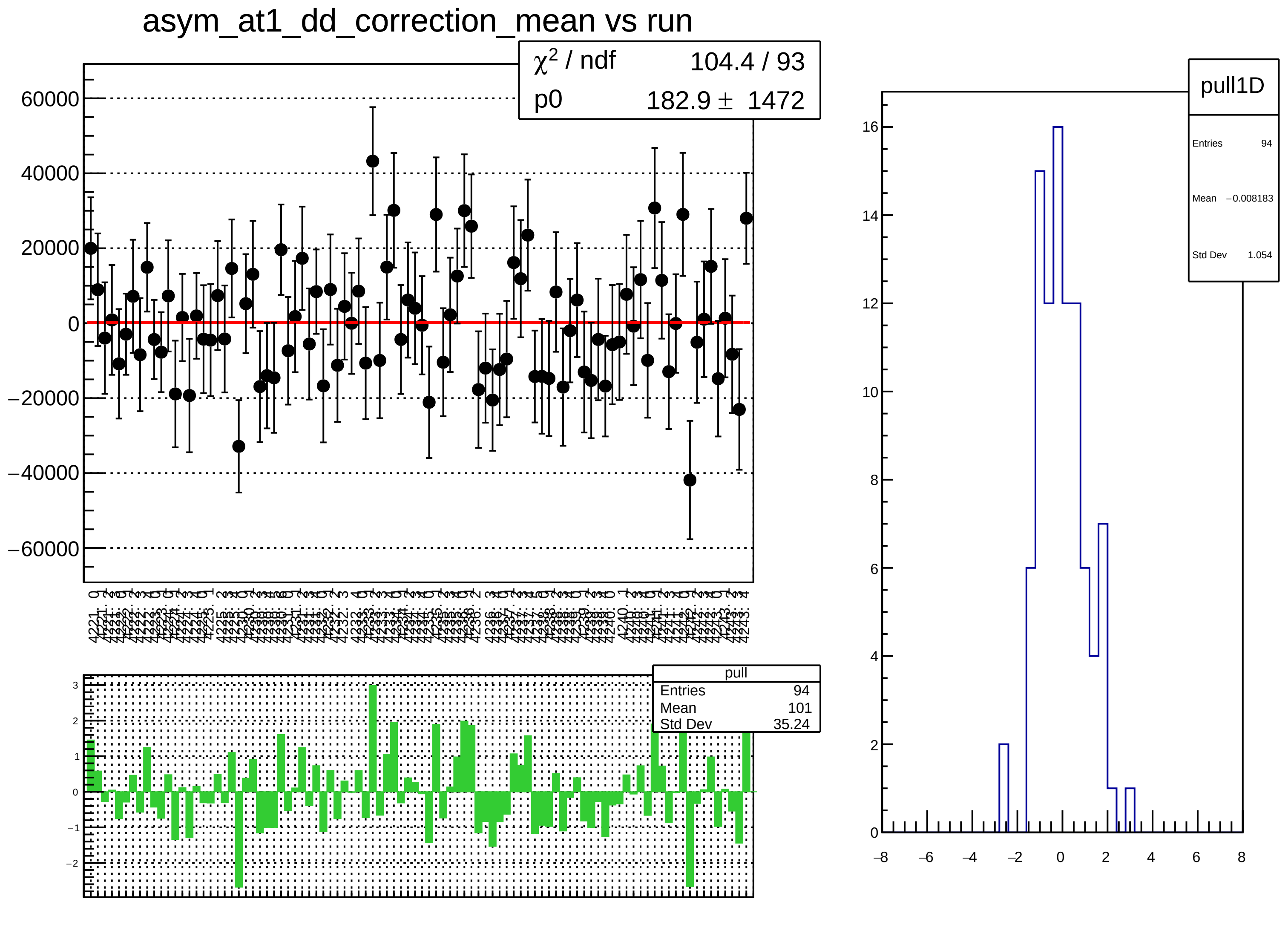
asym_at1_avg_mean vs run
χ^2 / ndf 94.37 / 93
p0 344.2 ± 876.3
pull
Entries 94
Mean 481.1
Std Dev 413.4
pull1D
Entries 94
Mean −0.003322
Std Dev 1.002


asym_at1_avg_rms vs run
χ^2 / ndf 7331 / 93
p0 844.9 ± 0.6197
950
900
850
800
750
700
650
600

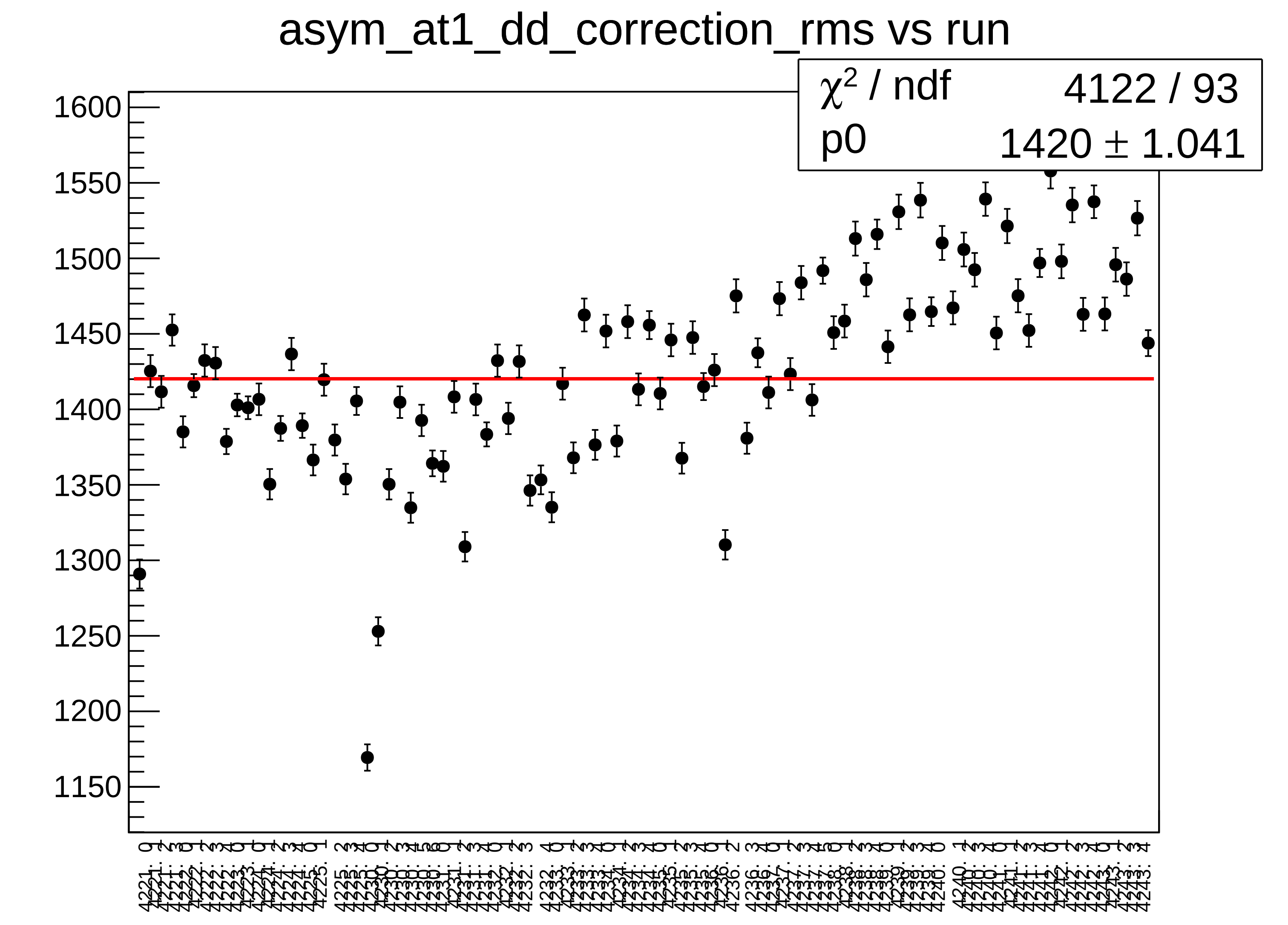

reg_asym_at1_dd_mean vs run
χ² / ndf 94.86 / 93
p0 −161.4 ± 401.4
pull
Entries 94
Mean −85.27
Std Dev 144
pull1D
Entries 94
Mean −0.00469
Std Dev 1.005

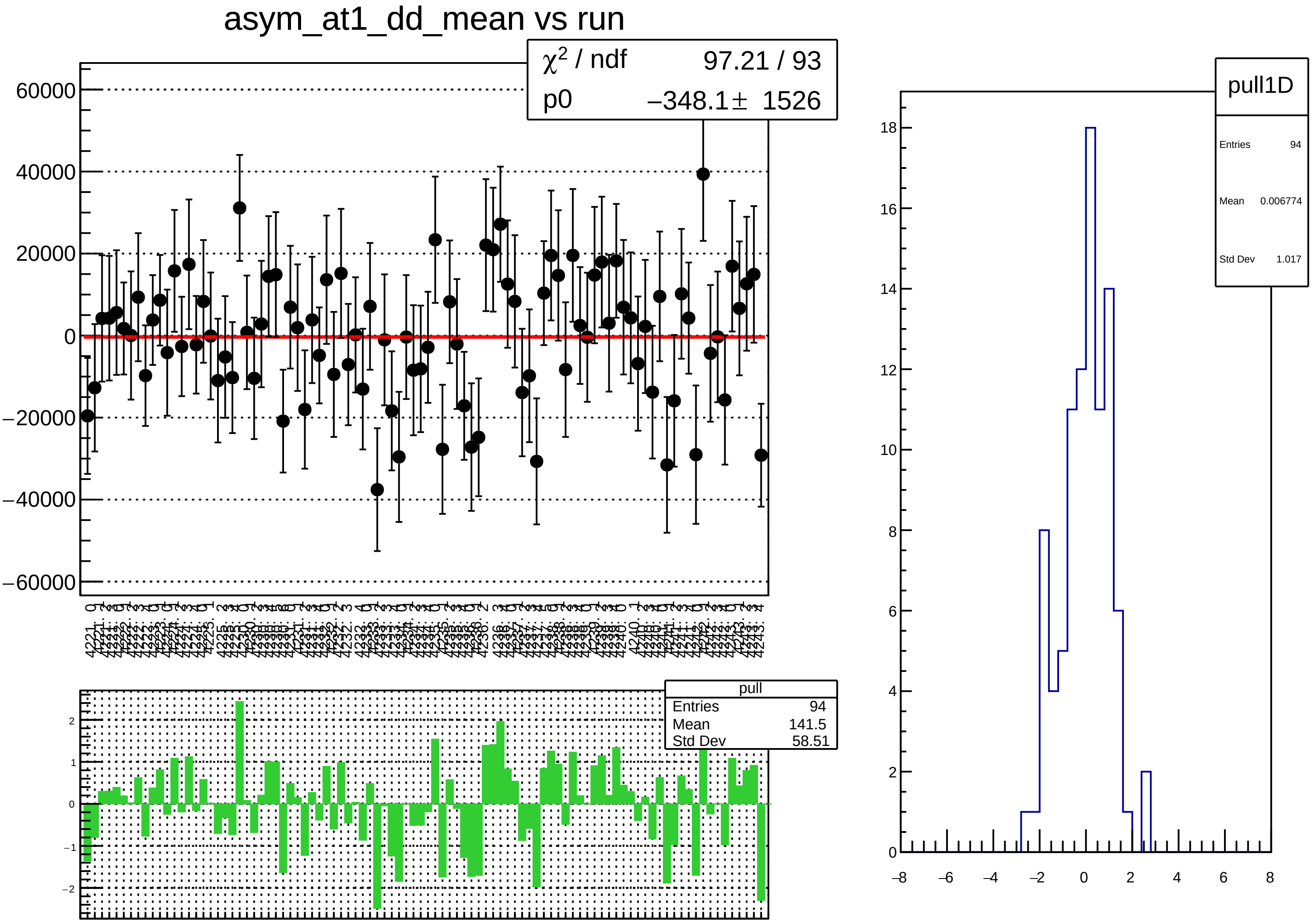


reg_asym_at1_dd_rms vs run
χ^2 / ndf 1928 / 93
p0 387.5 ± 0.2838
440
430
420
410
400
390
380
370
360

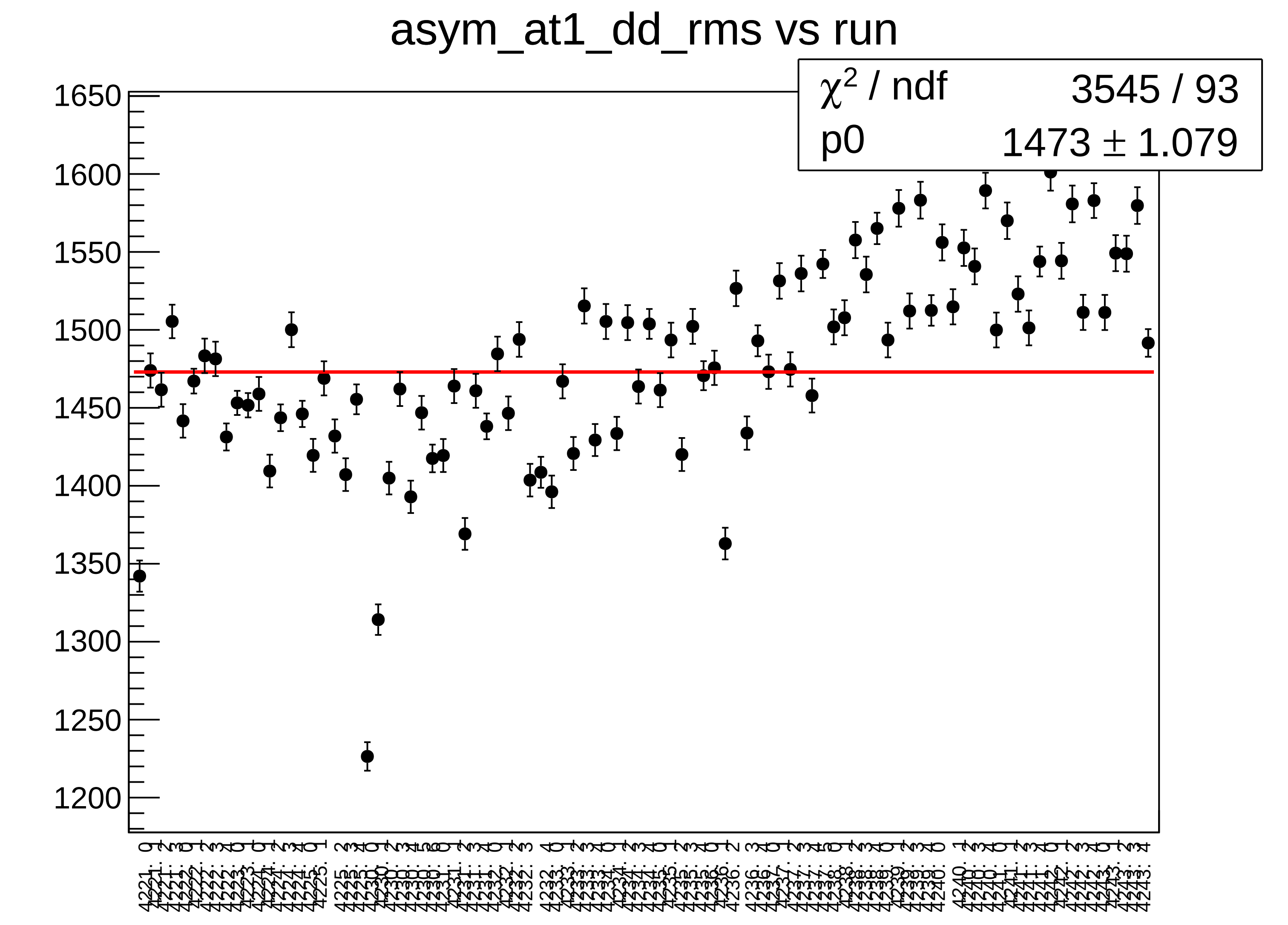


asym_at1_dd_correction_mean vs run
χ2 / ndf 104.4 / 93
p0 182.9 ± 1472
pull
Entries 94
Mean 101
Std Dev 35.24
pull1D
Entries 94
Mean −0.008183
Std Dev 1.054

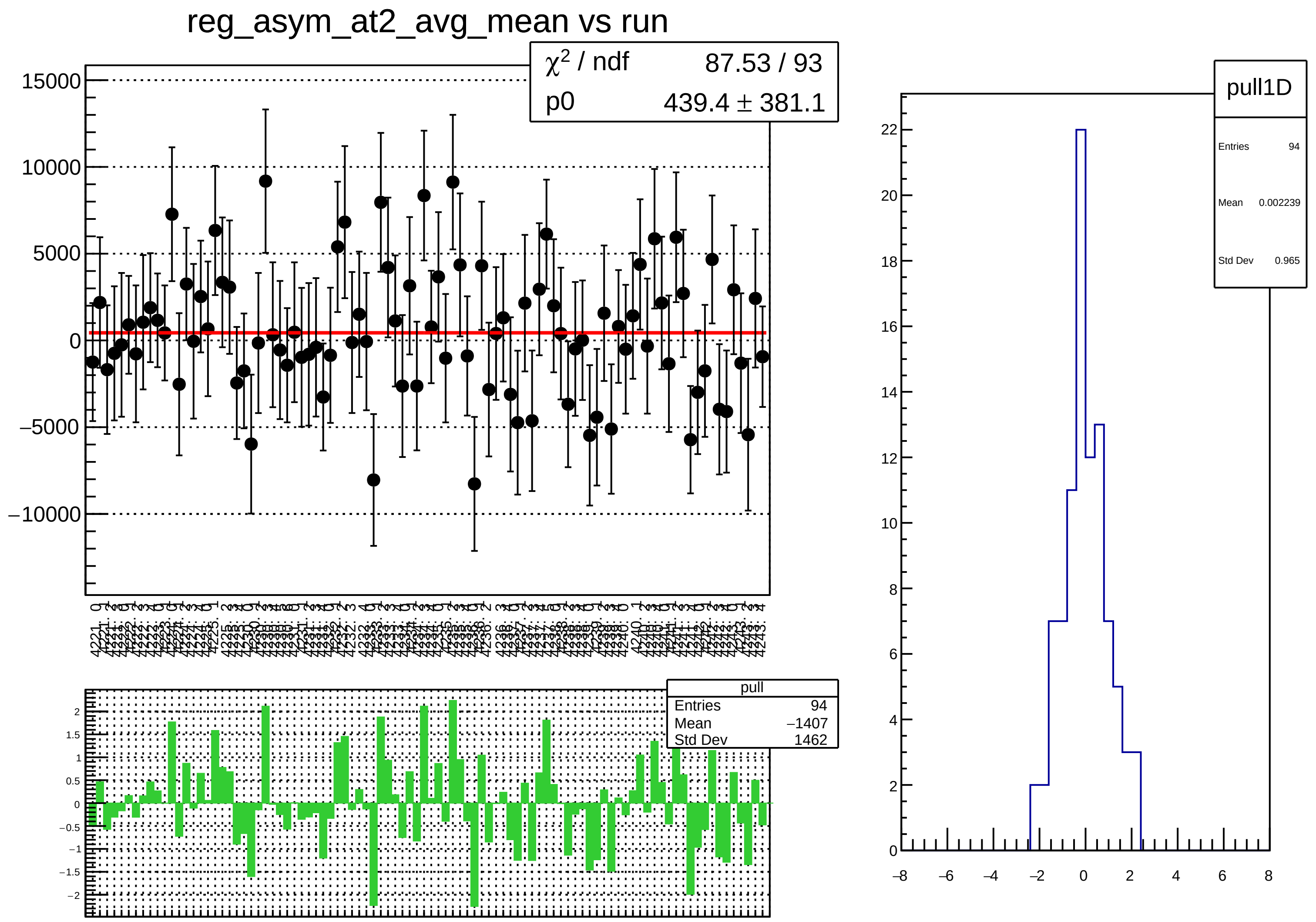

asym_at1_dd_correction_rms vs run
χ^2 / ndf 4122 / 93
p0 1420 ± 1.041
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150



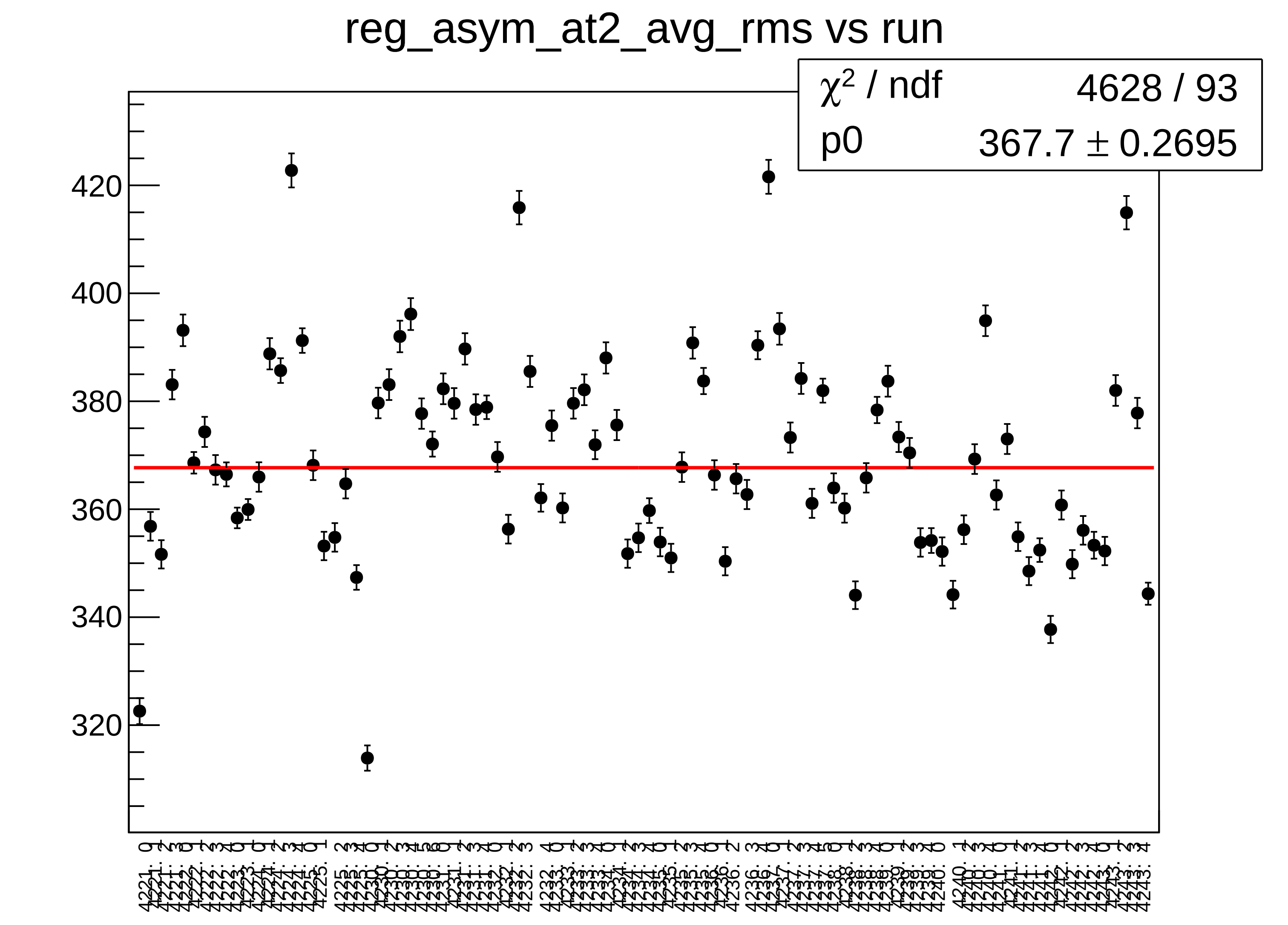
asym_at1_dd_mean vs run
χ^2 / ndf 97.21 / 93
p0 −348.1 ± 1526
pull
Entries 94
Mean 141.5
Std Dev 58.51
pull1D
Entries 94
Mean 0.006774
Std Dev 1.017



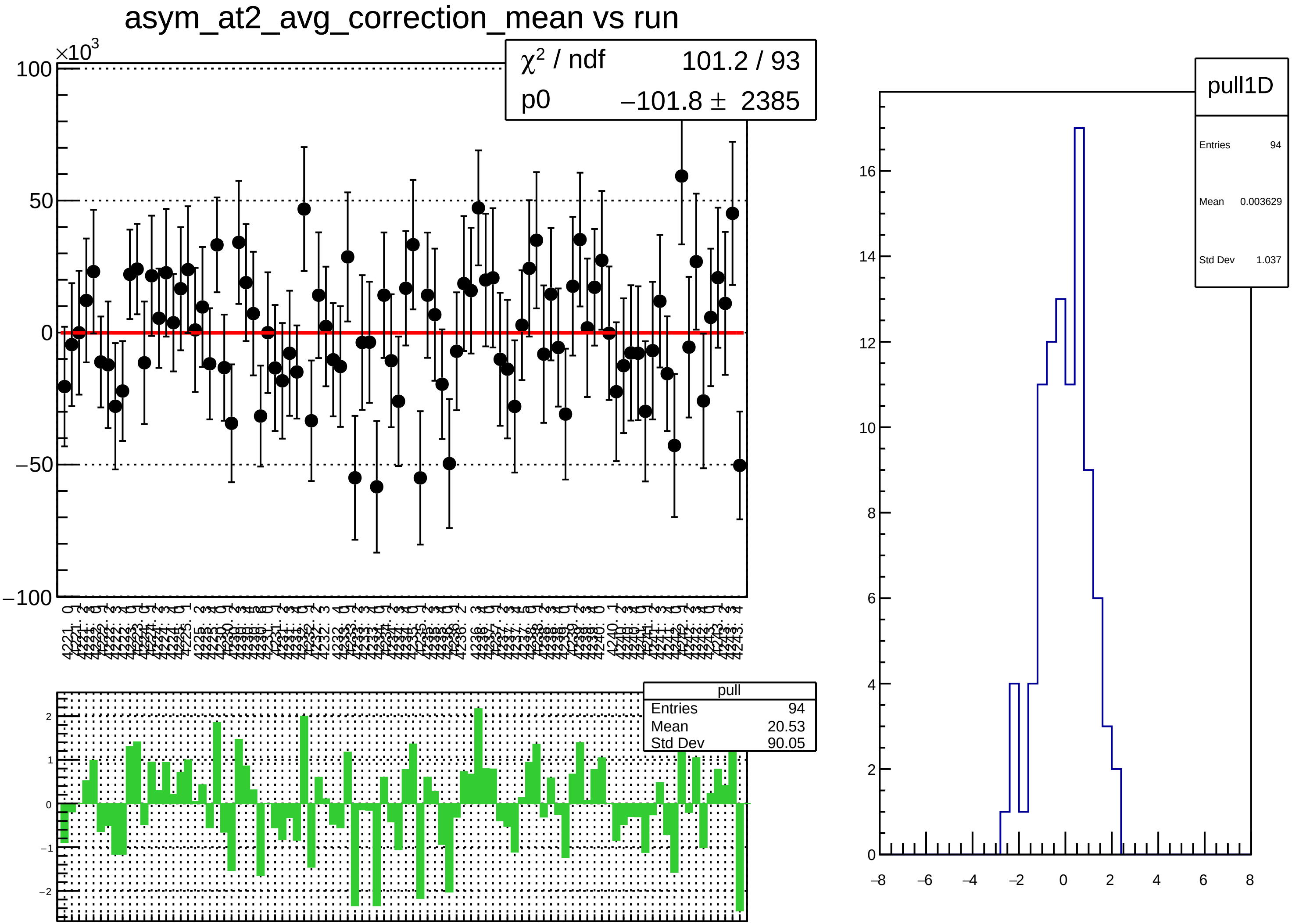
asym_at1_dd_rms vs run
χ^2 / ndf 3545 / 93
p0 1473 ± 1.079
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200



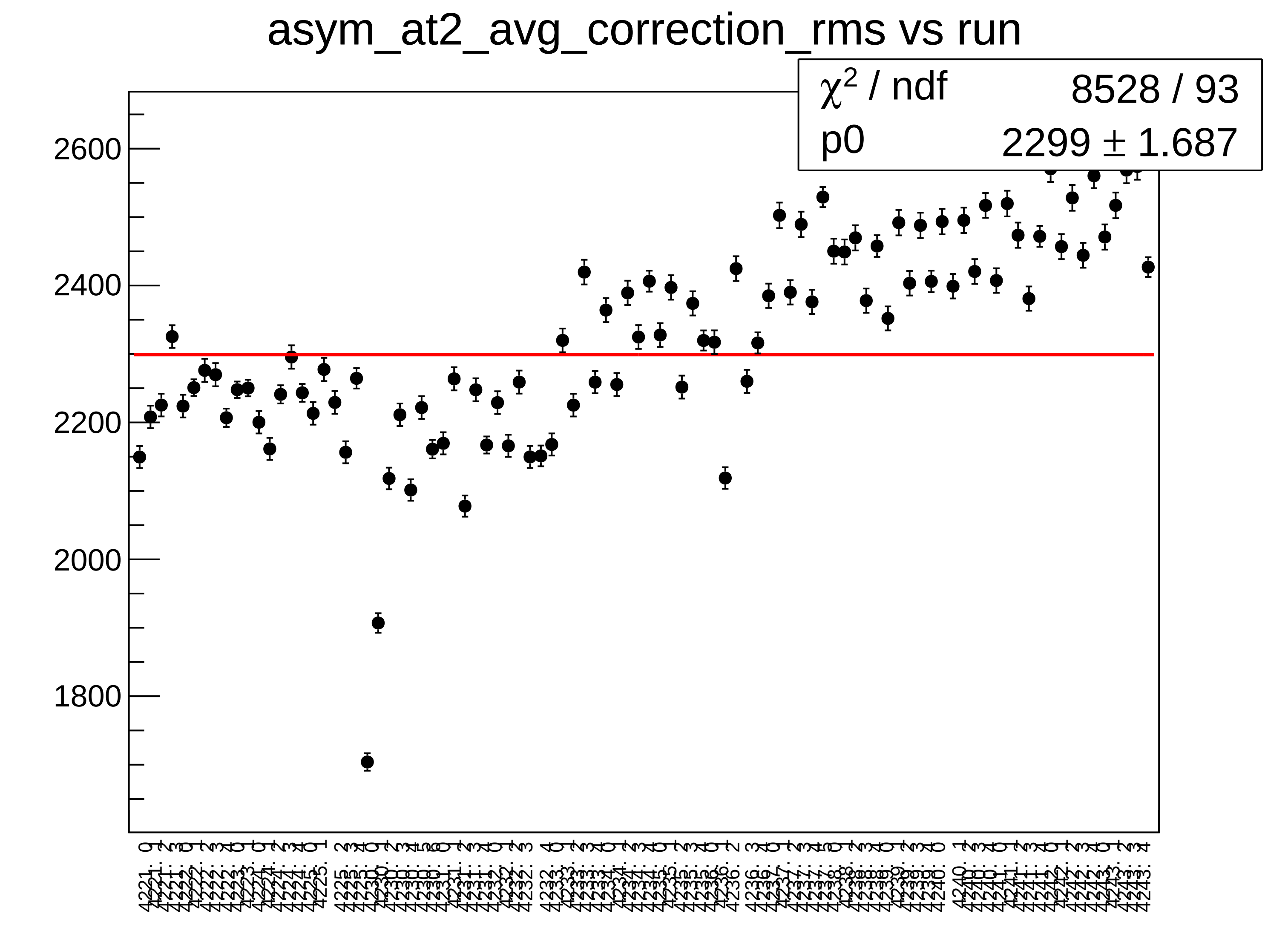
reg_asym_at2_avg_mean vs run
χ2 / ndf 87.53 / 93
p0 439.4 ± 381.1
pull
Entries 94
Mean −1407
Std Dev 1462
pull1D
Entries 94
Mean 0.002239
Std Dev 0.965

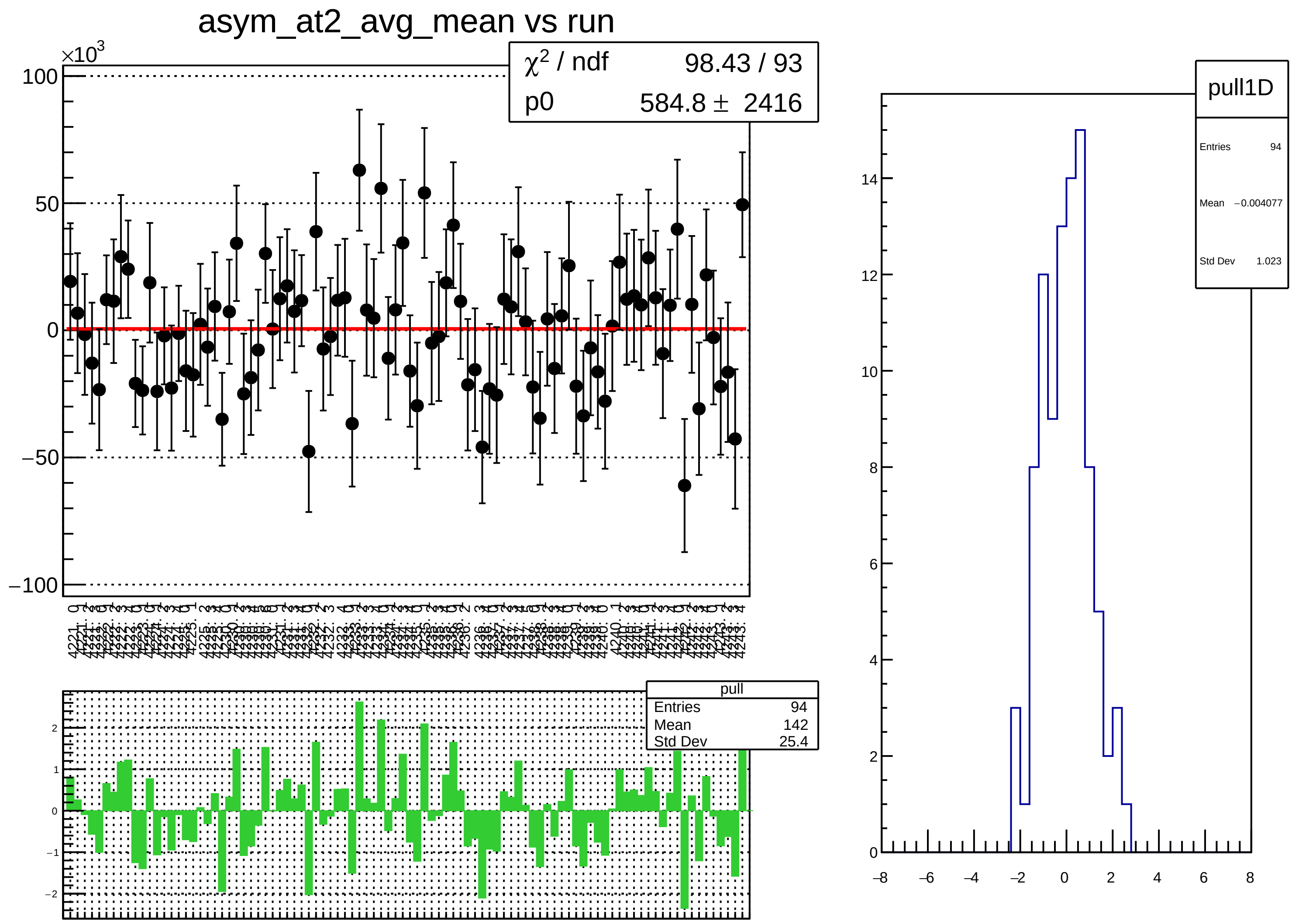


reg_asym_at2_avg_rms vs run
χ2 / ndf 4628 / 93
p0 367.7 ± 0.2695
420
400
380
360
340
320

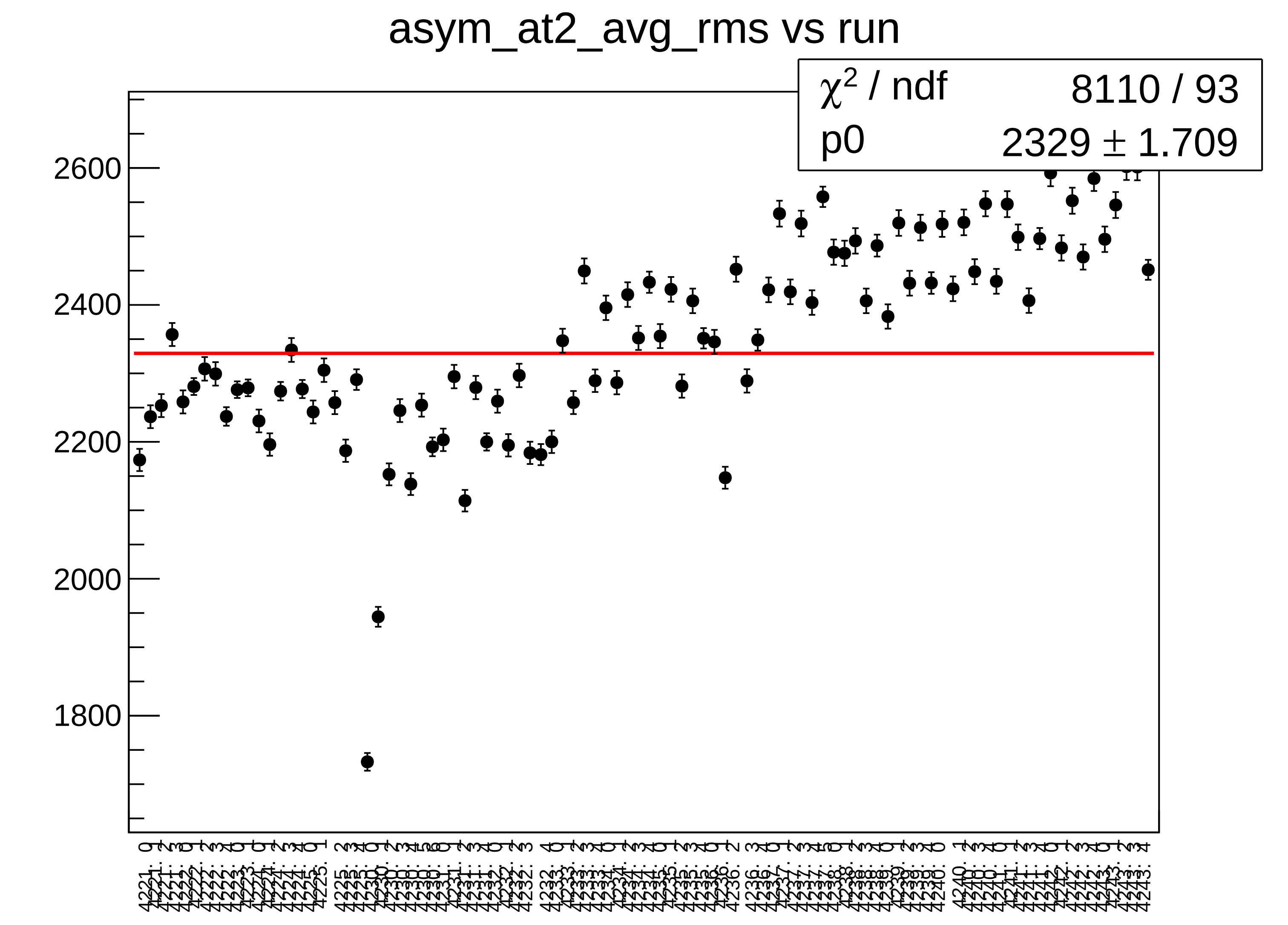


asym_at2_avg_correction_mean vs run
χ2 / ndf 101.2 / 93
p0 −101.8 ± 2385
×10^3
pull
Entries 94
Mean 20.53
Std Dev 90.05
pull1D
Entries 94
Mean 0.003629
Std Dev 1.037

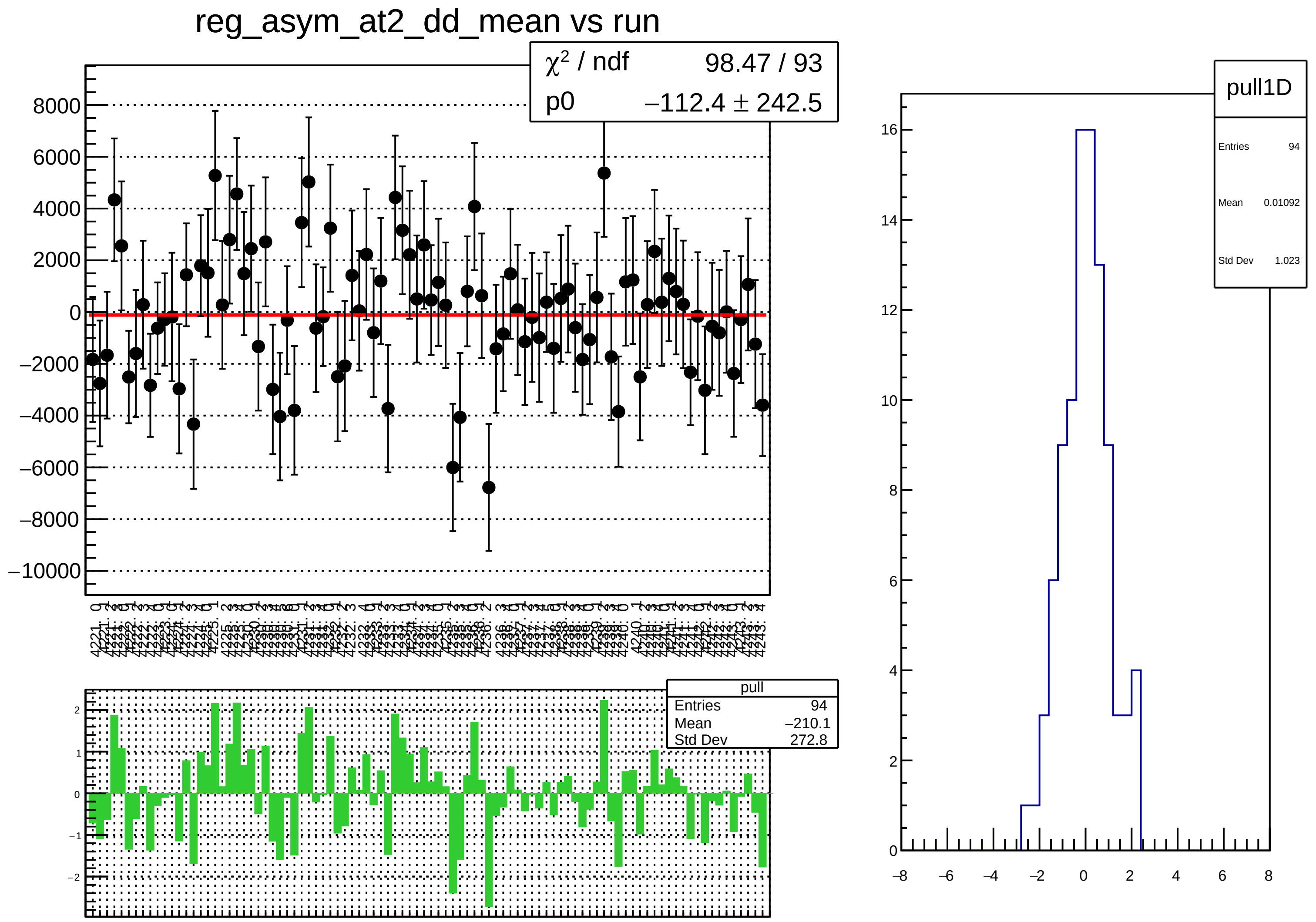

asym_at2_avg_correction_rms vs run
χ2 / ndf 8528 / 93
p0 2299 ± 1.687
2600
2400
2200
2000
1800



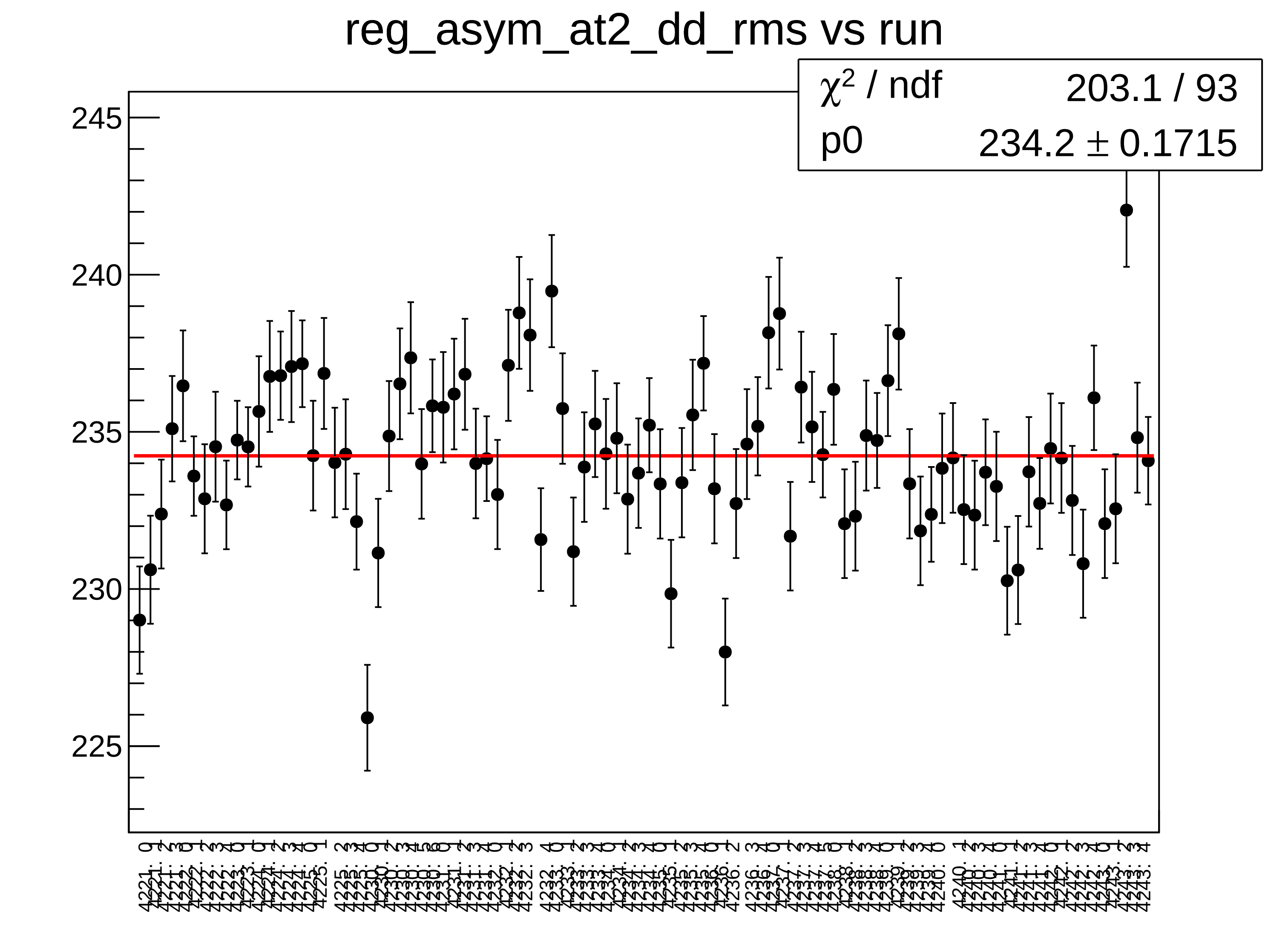
asym_at2_avg_mean vs run
χ^2 / ndf 98.43 / 93
p0 584.8 ± 2416
×10^3
100
50
0
−50
−100
pull
Entries 94
Mean 142
Std Dev 25.4
pull1D
Entries 94
Mean −0.004077
Std Dev 1.023

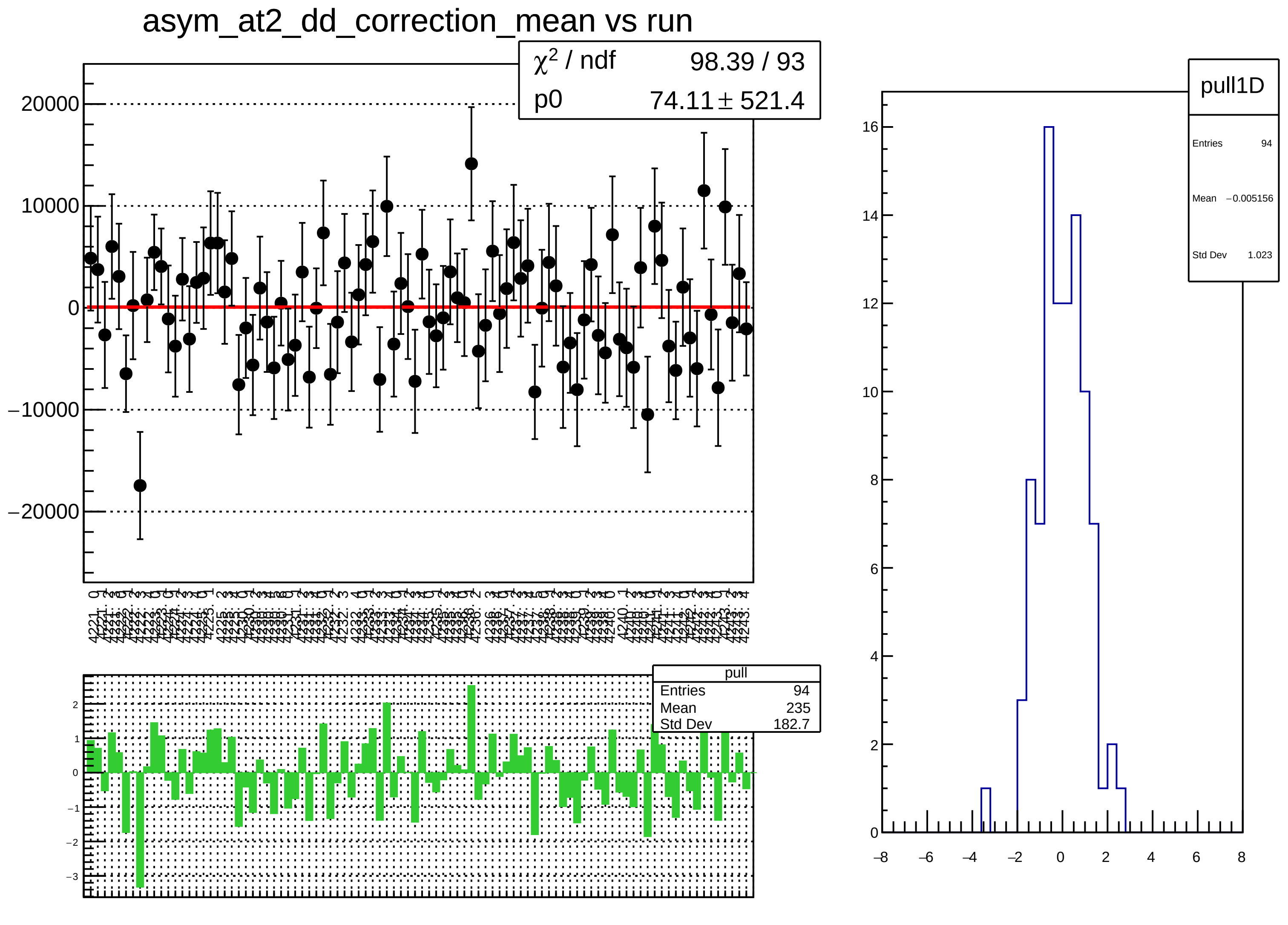


asym_at2_avg_rms vs run
χ2 / ndf 8110 / 93
p0 2329 ± 1.709
2600
2400
2200
2000
1800

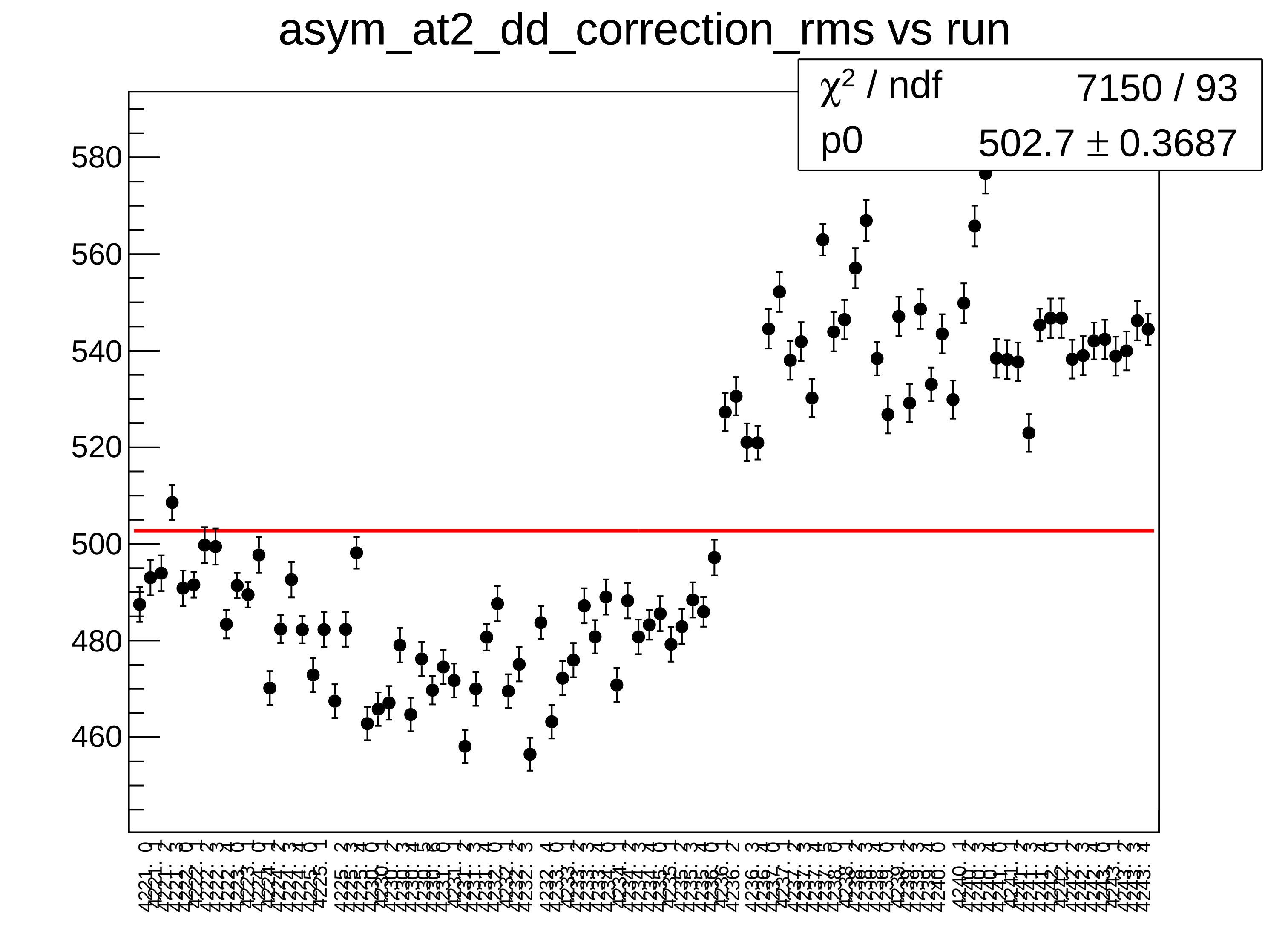


reg_asym_at2_dd_mean vs run
χ^2 / ndf 98.47 / 93
p0 −112.4 ± 242.5
pull
Entries 94
Mean −210.1
Std Dev 272.8
pull1D
Entries 94
Mean 0.01092
Std Dev 1.023

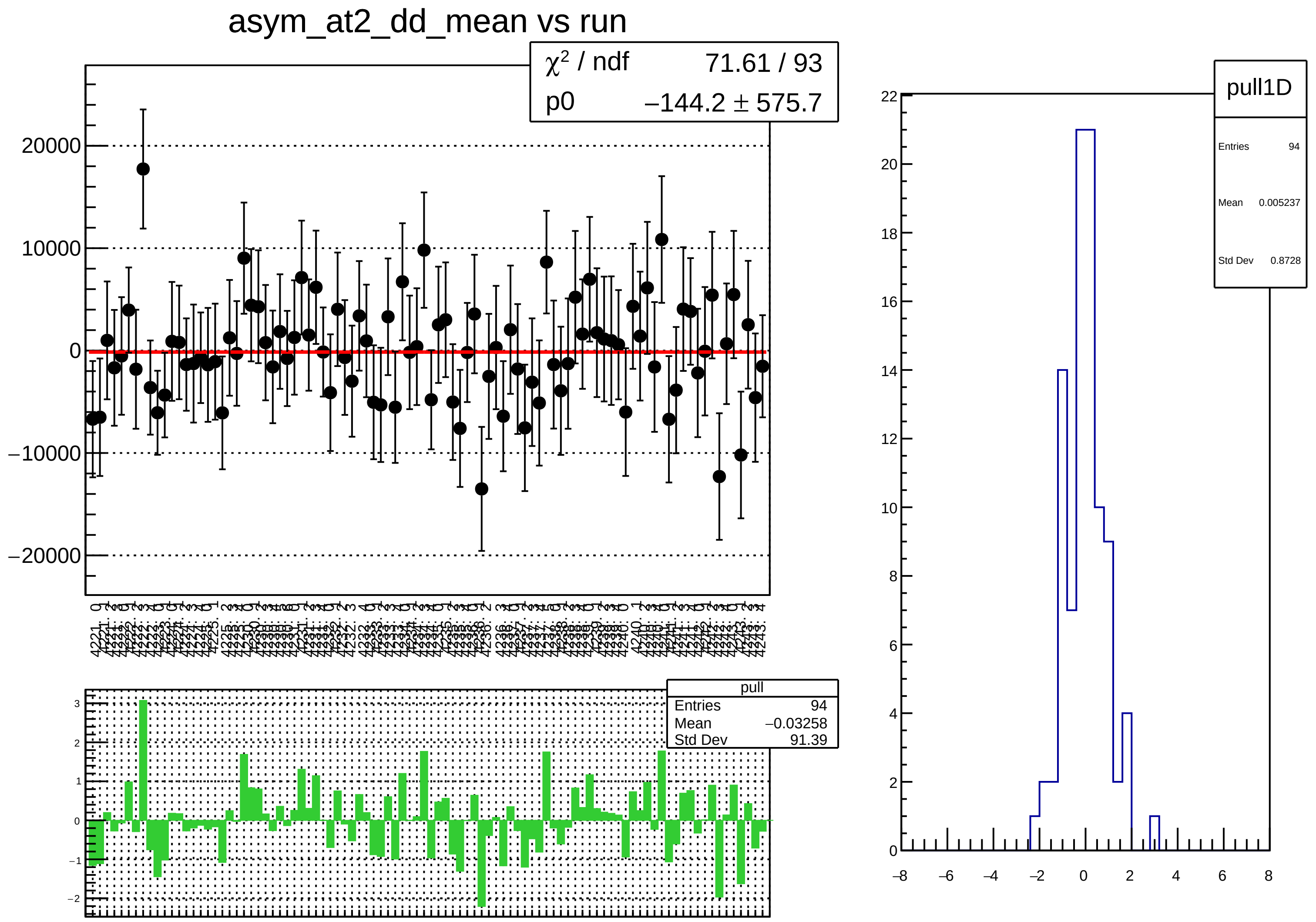

reg_asym_at2_dd_rms vs run
χ2 / ndf 203.1 / 93
p0 234.2 ± 0.1715
245
240
235
230
225



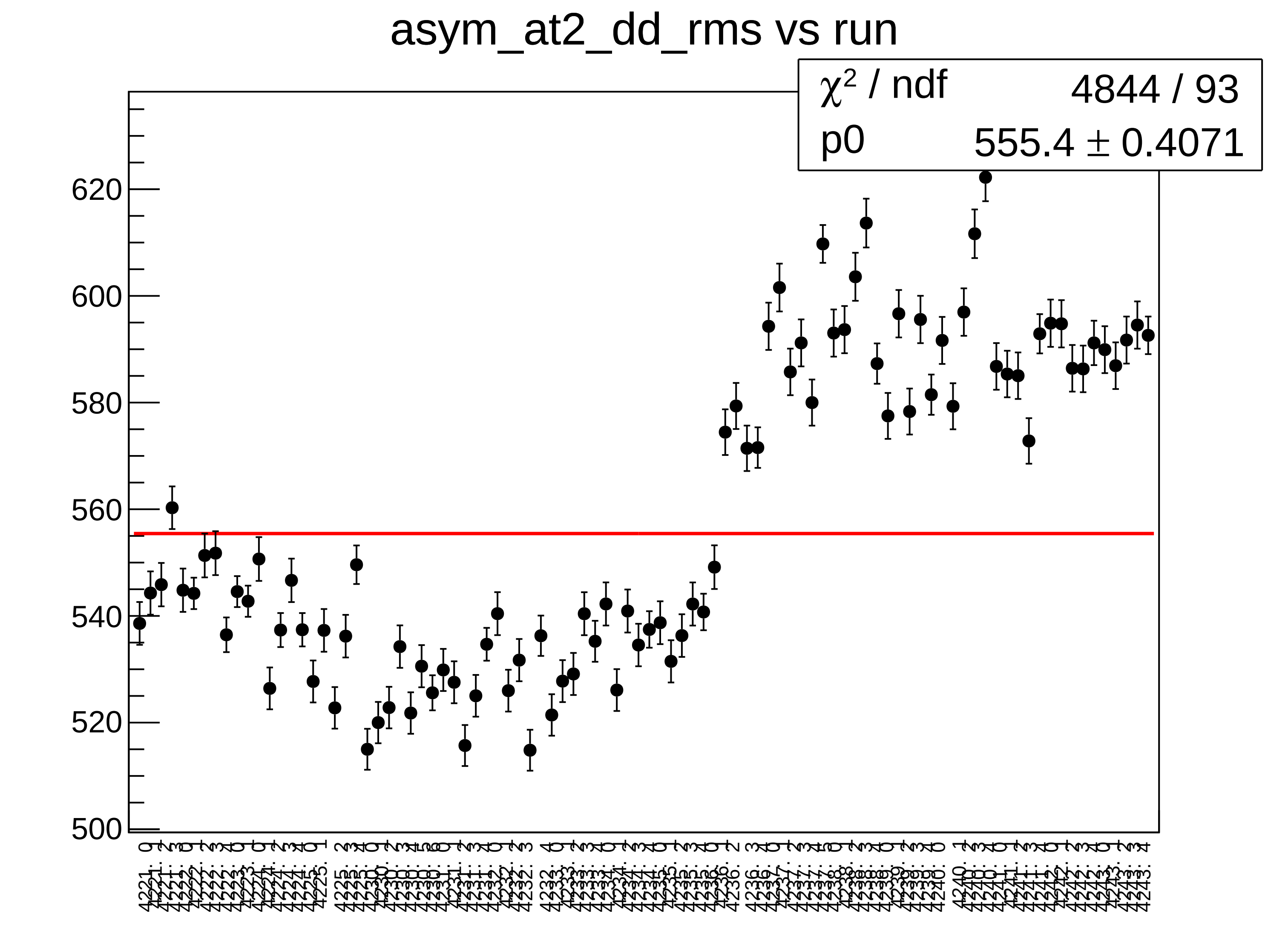
asym_at2_dd_correction_mean vs run
χ2 / ndf 98.39 / 93
p0 74.11 ± 521.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 235
Std Dev 182.7
pull1D
Entries 94
Mean −0.005156
Std Dev 1.023

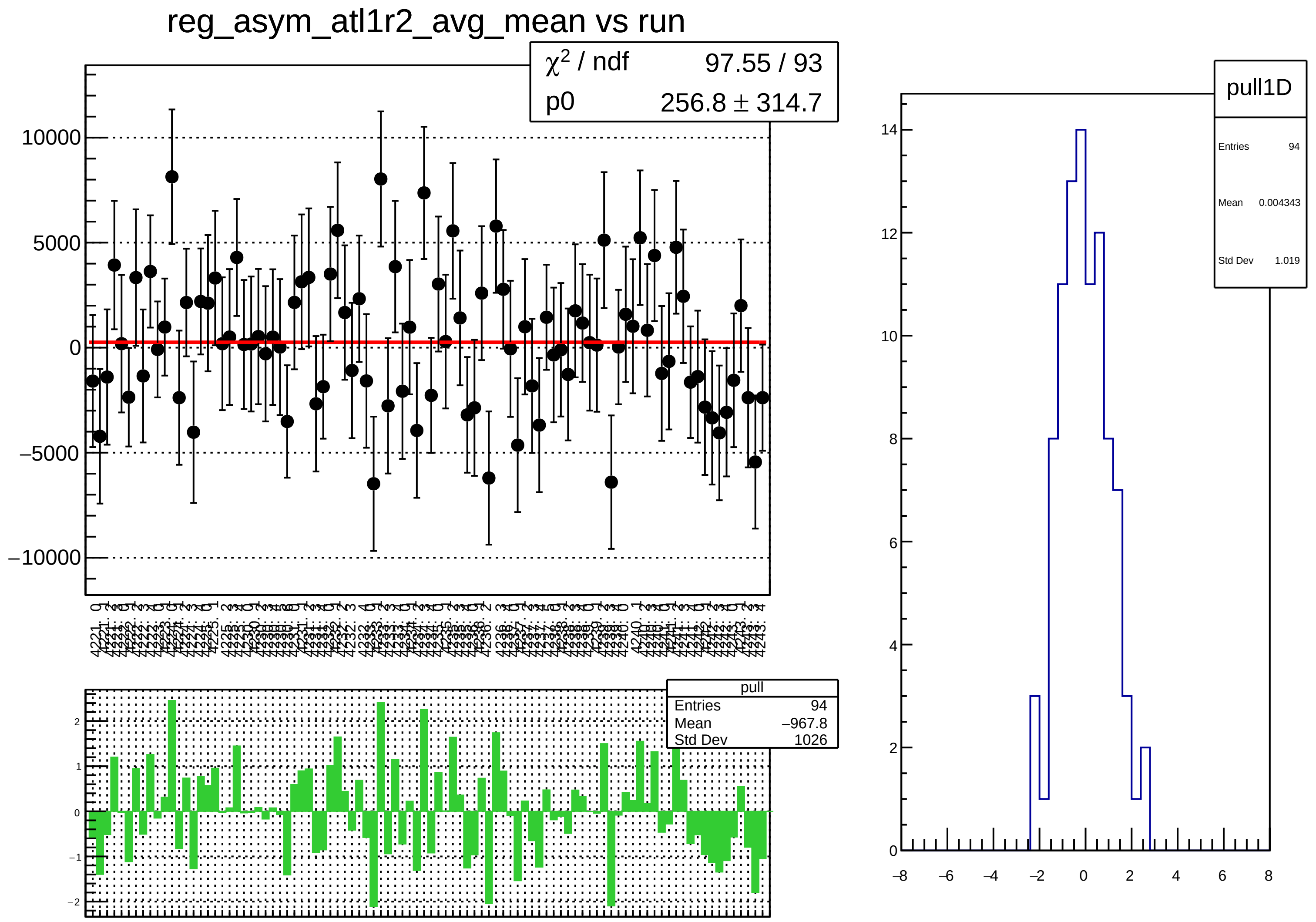


asym_at2_dd_correction_rms vs run
χ^2 / ndf 7150 / 93
p0 502.7 ± 0.3687
580
560
540
520
500
480
460

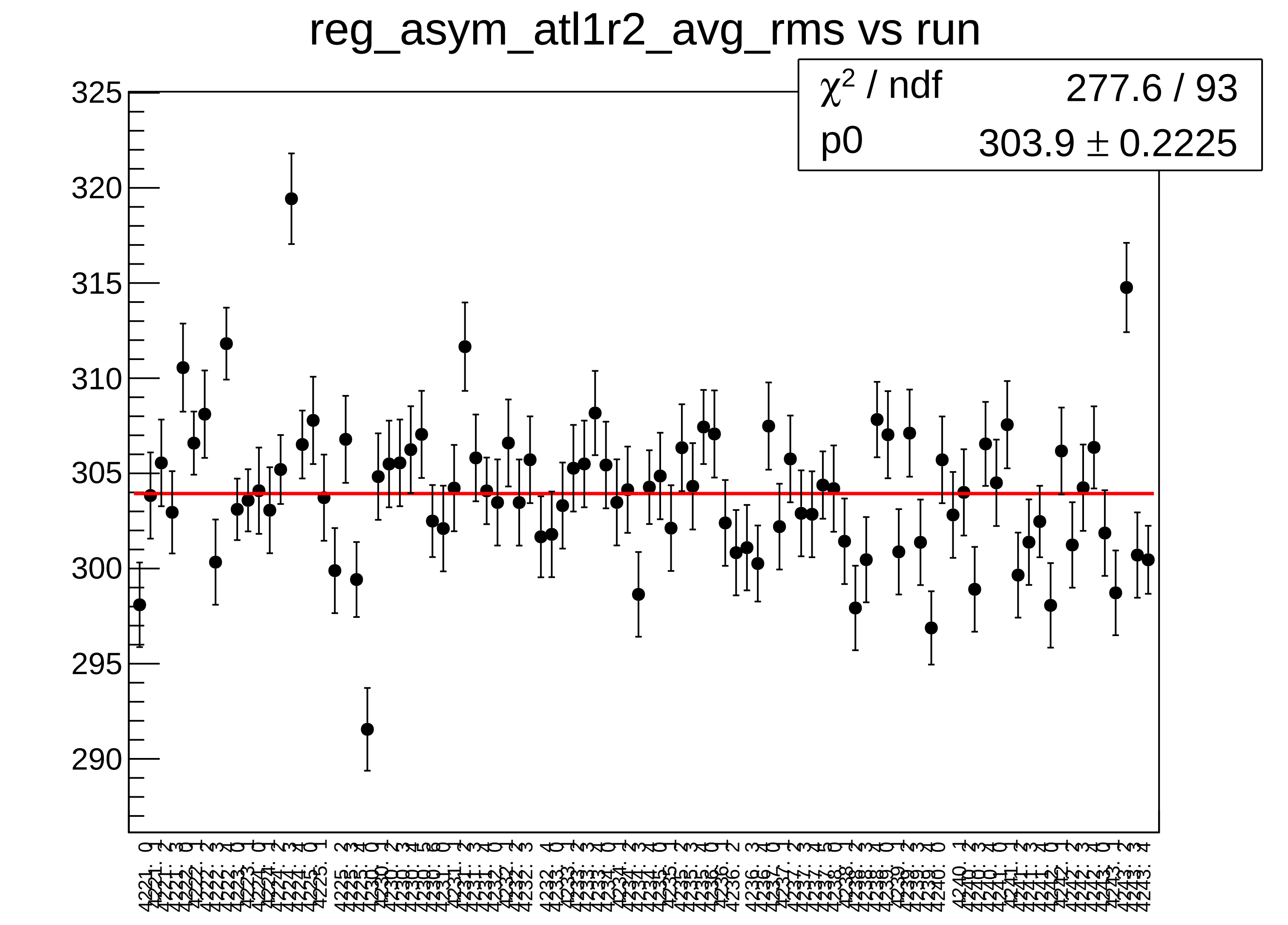


asym_at2_dd_mean vs run
χ^2 / ndf 71.61 / 93
p0 −144.2 ± 575.7
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −0.03258
Std Dev 91.39
pull1D
Entries 94
Mean 0.005237
Std Dev 0.8728

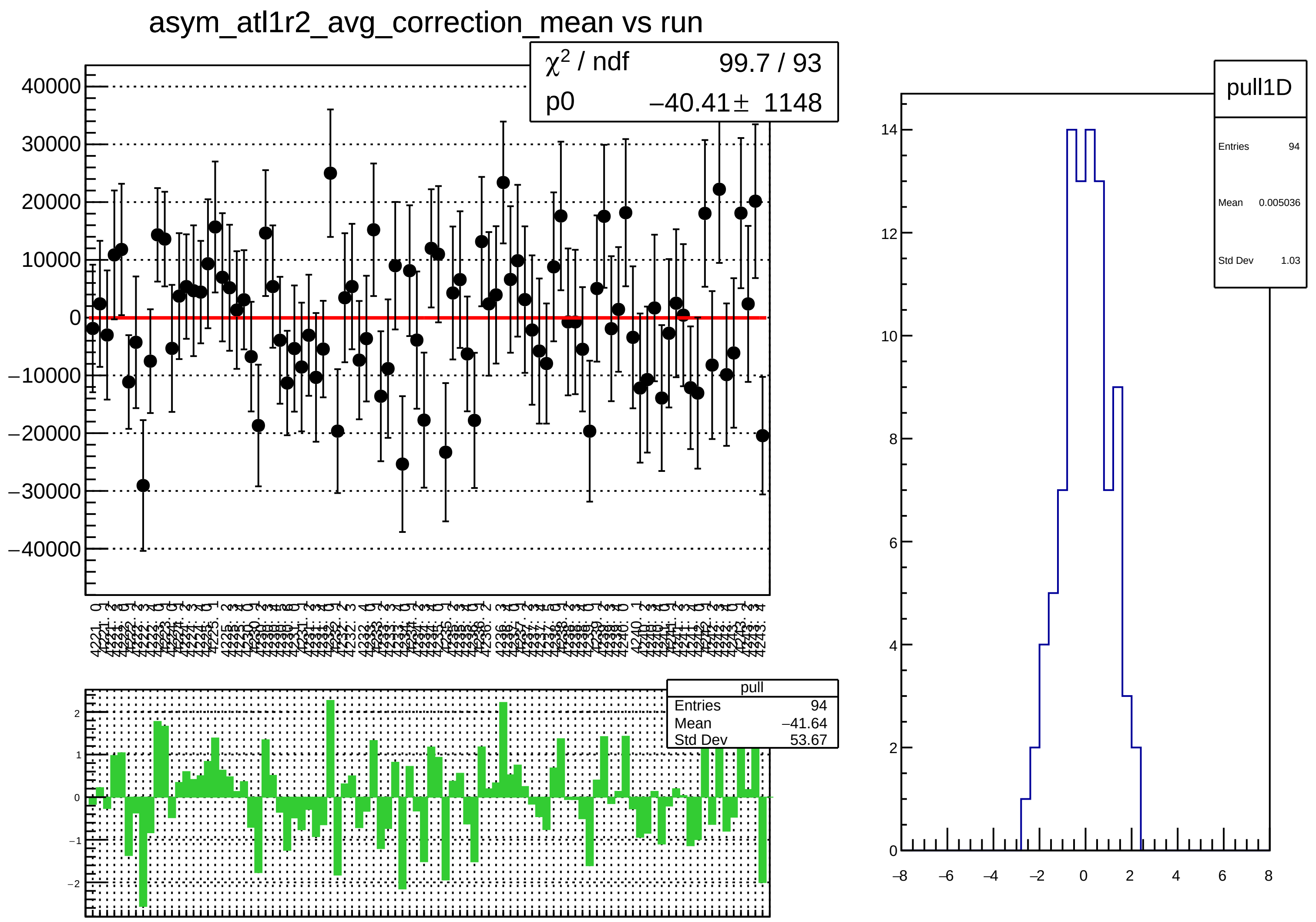

asym_at2_dd_rms vs run
χ^2 / ndf 4844 / 93
p0 555.4 ± 0.4071
620
600
580
560
540
520
500



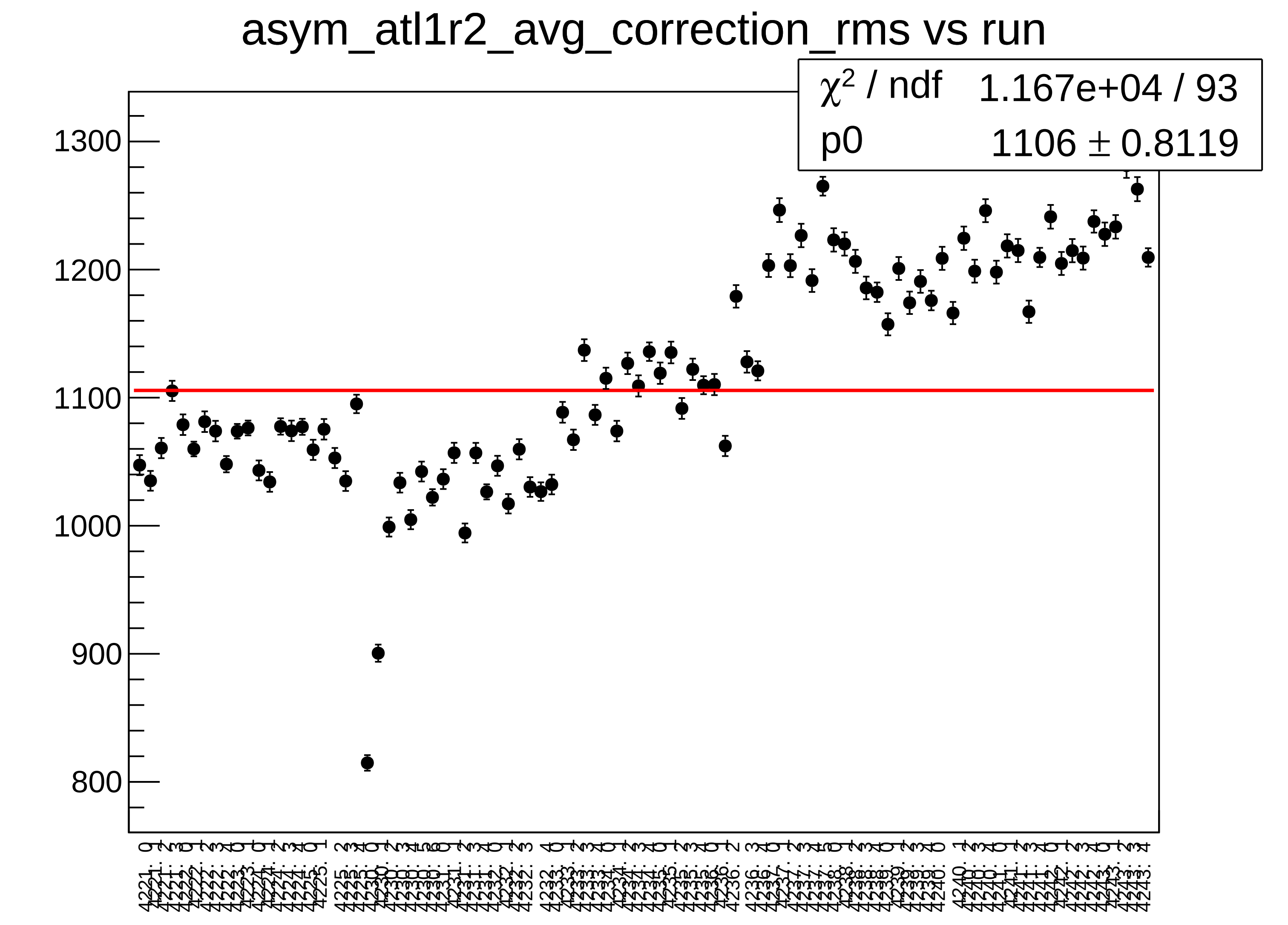
reg_asym_atl1r2_avg_mean vs run
χ^2 / ndf 97.55 / 93
p0 256.8 ± 314.7
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −967.8
Std Dev 1026
pull1D
Entries 94
Mean 0.004343
Std Dev 1.019



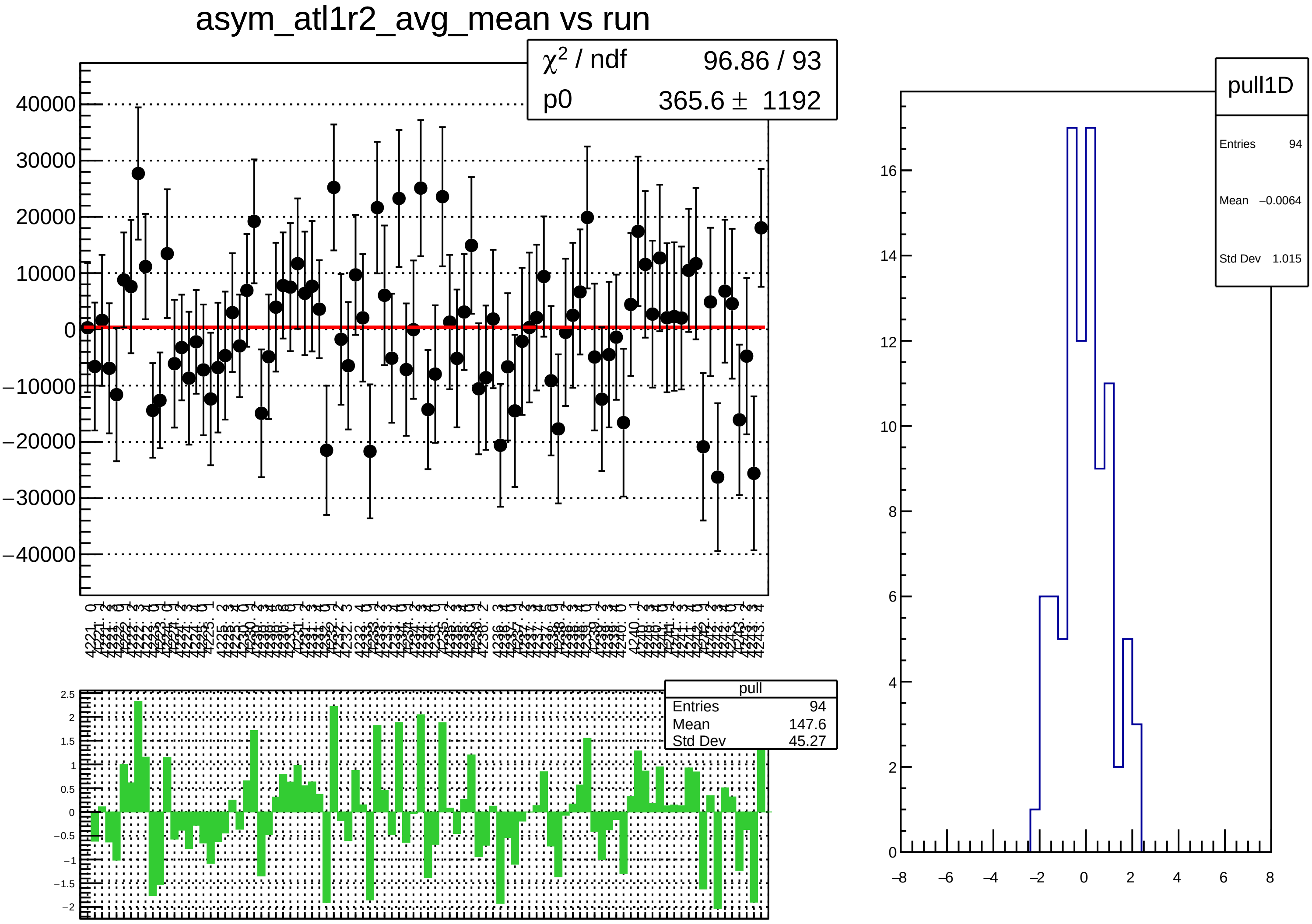
reg_asym_atl1r2_avg_rms vs run
χ^2 / ndf 277.6 / 93
p0 303.9 ± 0.2225
325
320
315
310
305
300
295
290

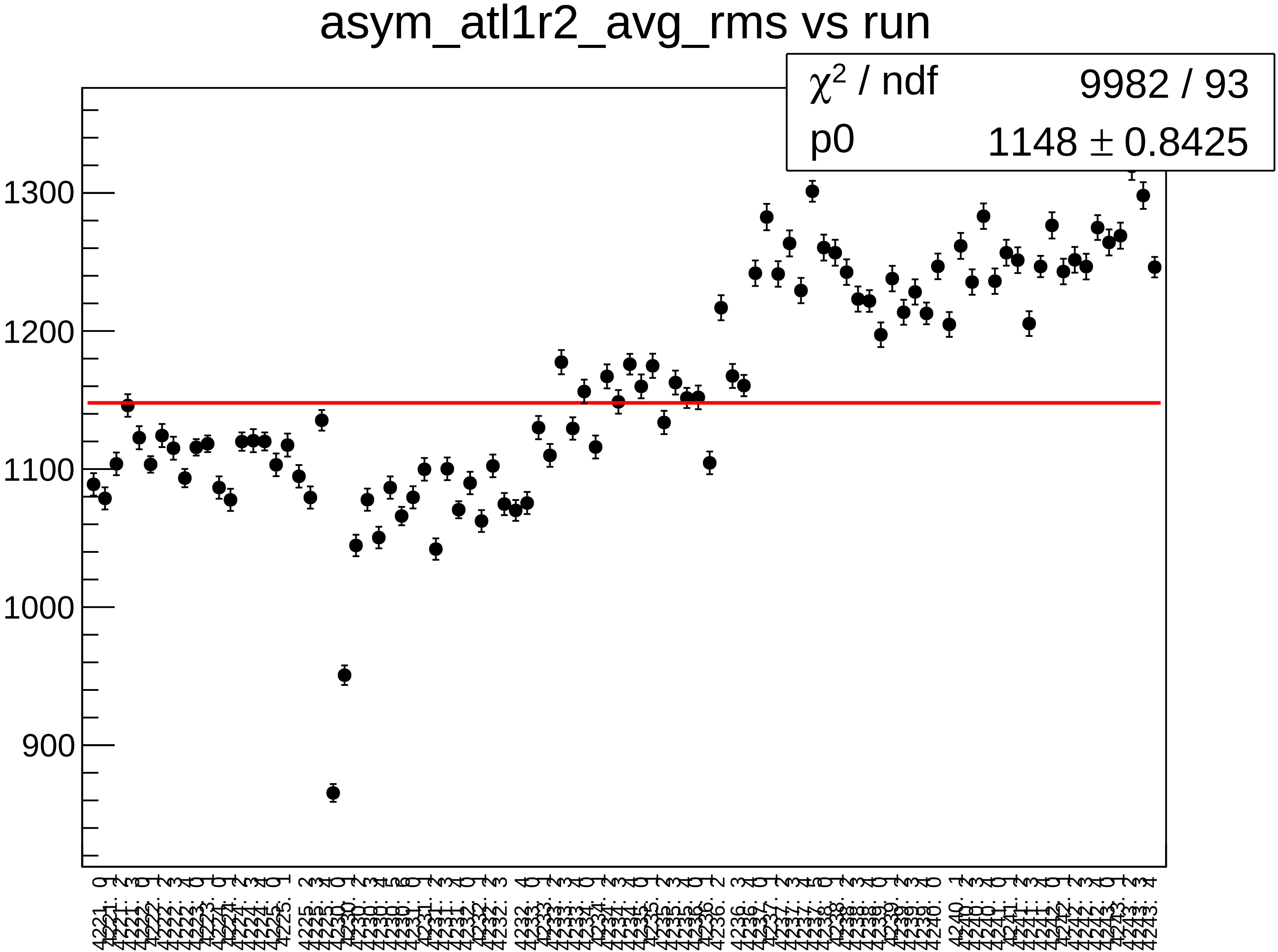


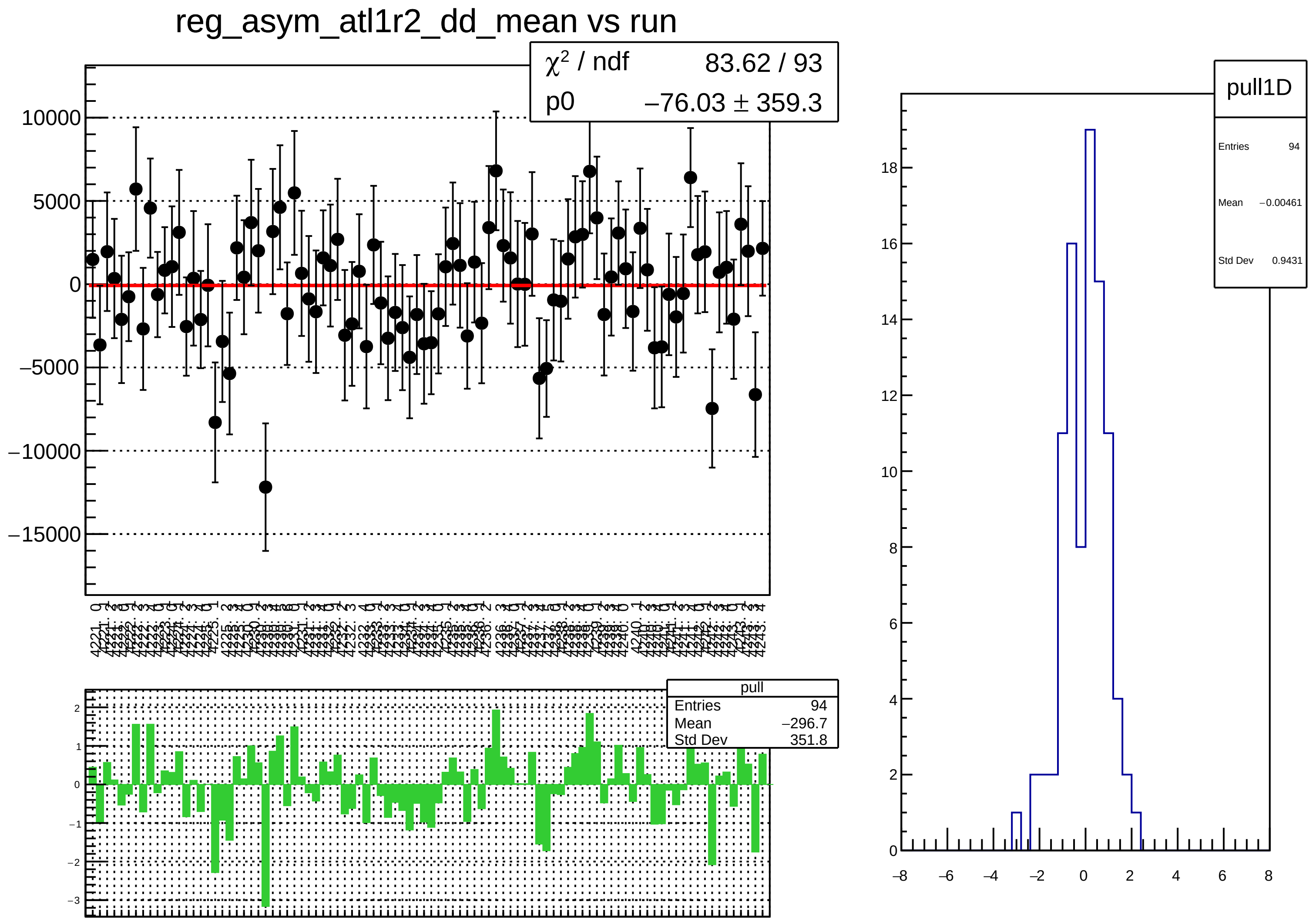
asym_atl1r2_avg_correction_mean vs run
χ^2 / ndf 99.7 / 93
p0 −40.41 ± 1148
pull
Entries 94
Mean −41.64
Std Dev 53.67
pull1D
Entries 94
Mean 0.005036
Std Dev 1.03



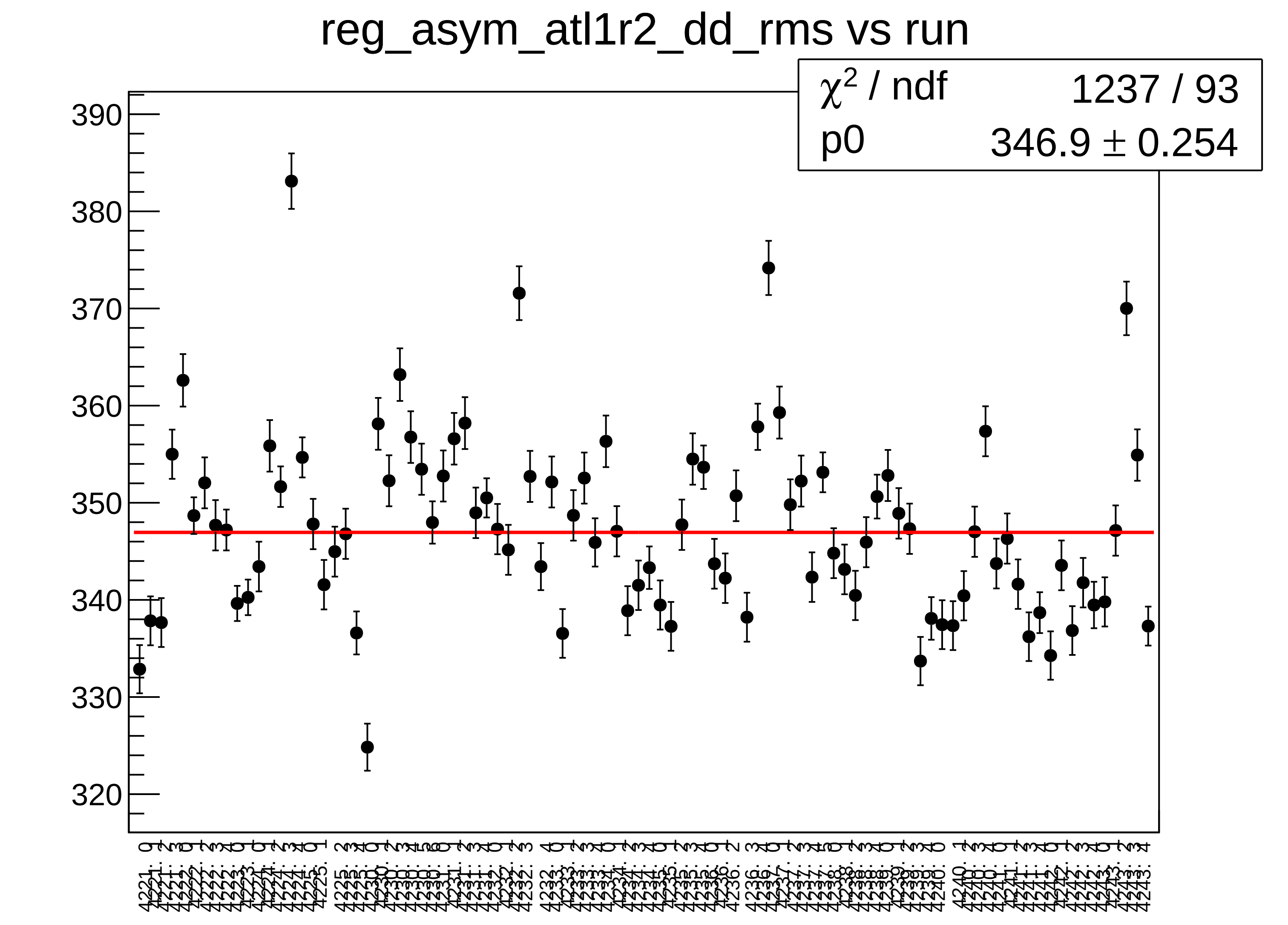
asym_atl1r2_avg_correction_rms vs run
χ2 / ndf 1.167e+04 / 93
p0 1106 ± 0.8119
1300
1200
1100
1000
900
800

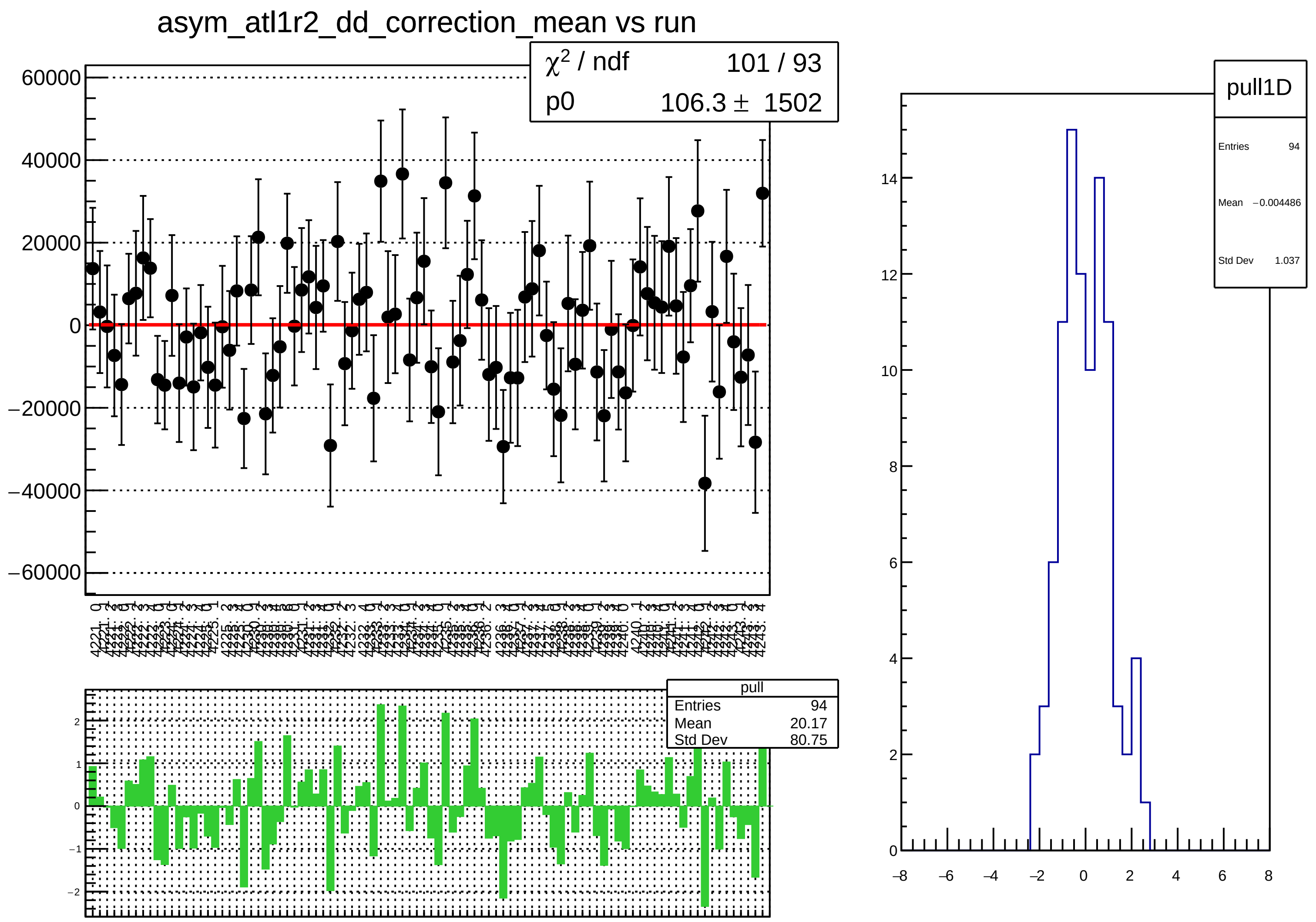

asym_atl1r2_avg_mean vs run
χ^2 / ndf 96.86 / 93
p0 365.6 ± 1192
pull
Entries 94
Mean 147.6
Std Dev 45.27
pull1D
Entries 94
Mean −0.0064
Std Dev 1.015


asym_atl1r2_avg_rms vs run
χ2 / ndf 9982 / 93
p0 1148 ± 0.8425
1300
1200
1100
1000
900

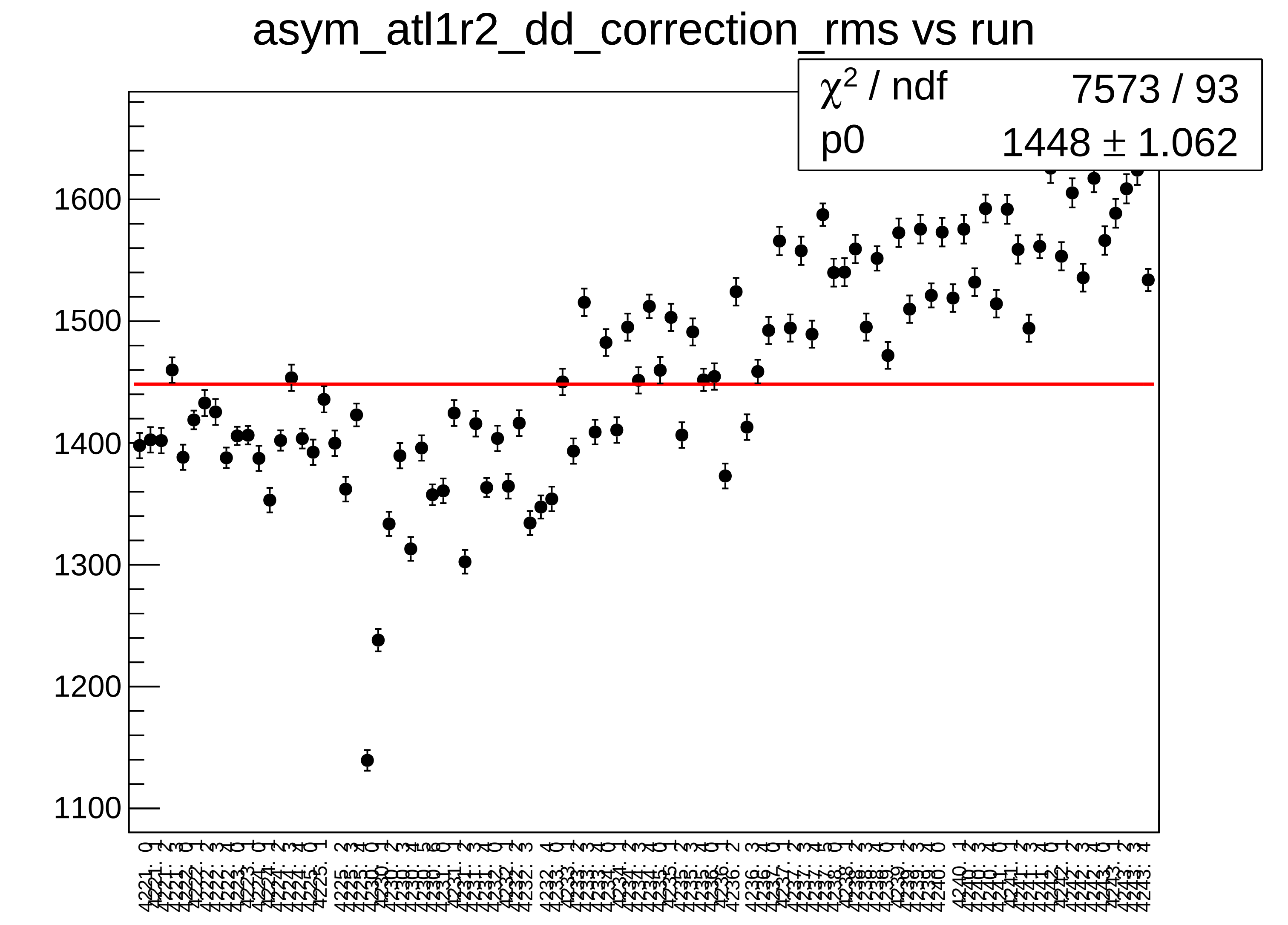


reg_asym_atl1r2_dd_mean vs run
χ^2 / ndf 83.62 / 93
p0 −76.03 ± 359.3
pull
Entries 94
Mean −296.7
Std Dev 351.8
pull1D
Entries 94
Mean −0.00461
Std Dev 0.9431

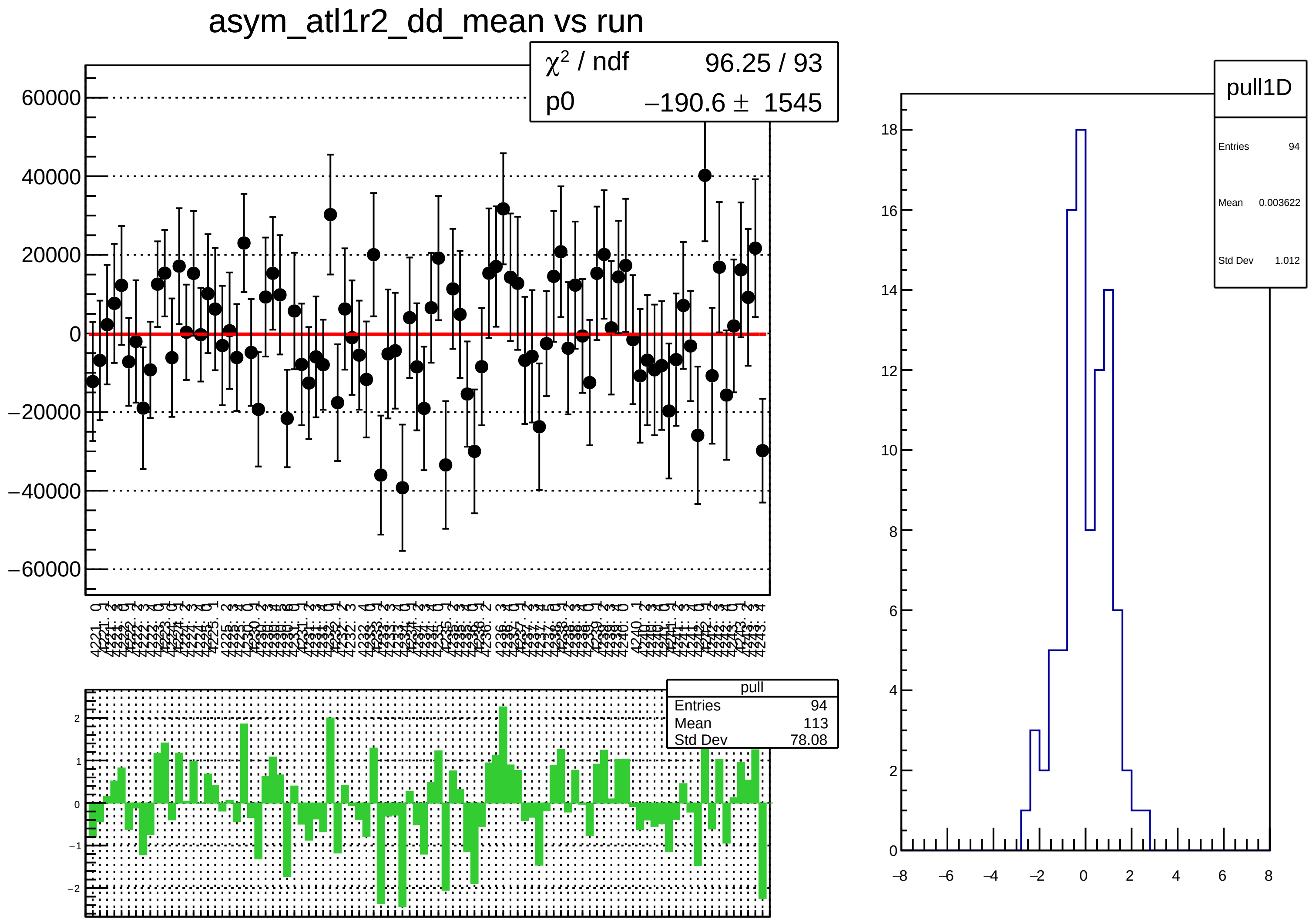

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1237 / 93
p0 346.9 ± 0.254
390
380
370
360
350
340
330
320



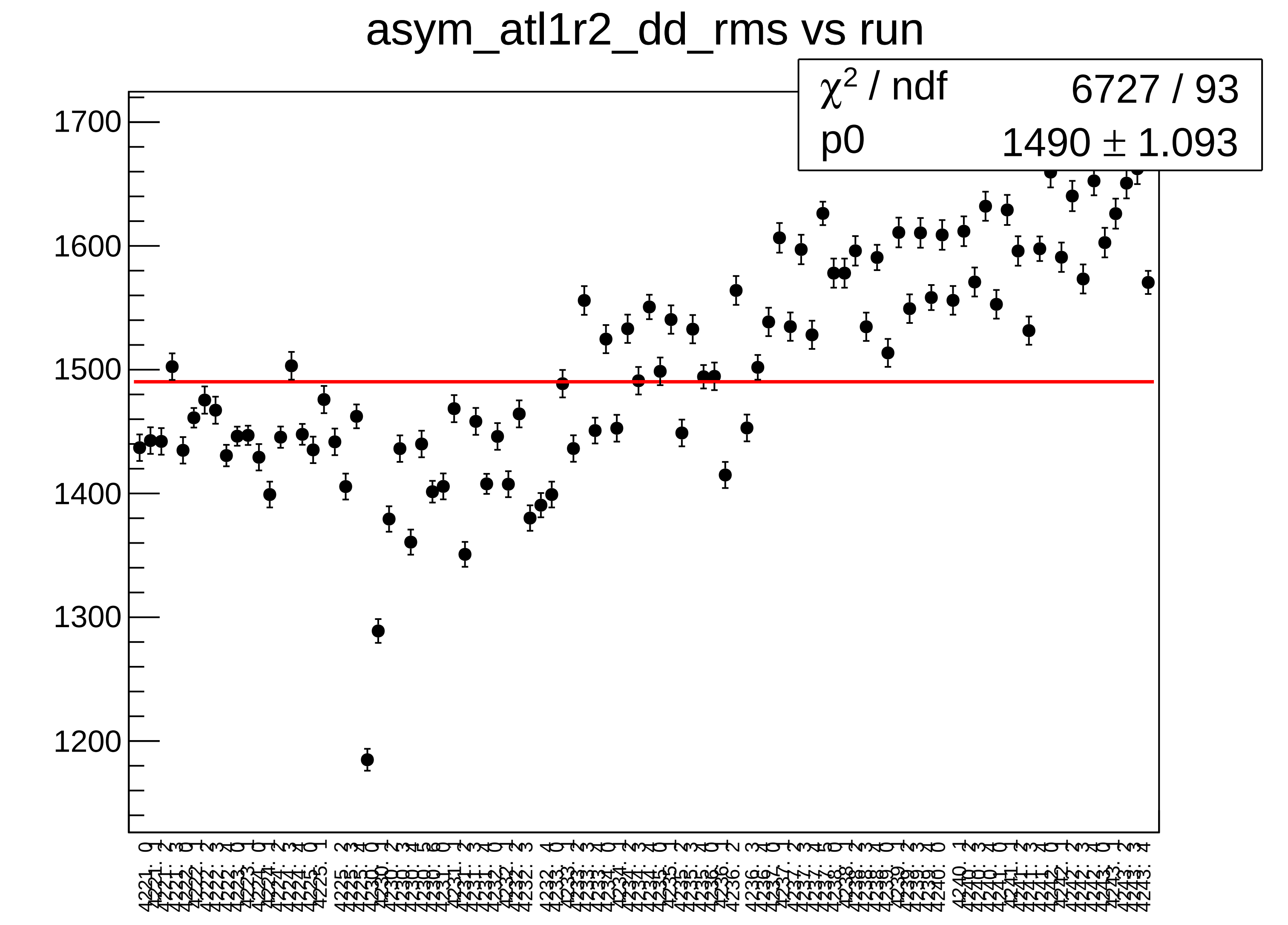
asym_atl1r2_dd_correction_mean vs run
χ² / ndf 101 / 93
p0 106.3 ± 1502
pull
Entries 94
Mean 20.17
Std Dev 80.75
pull1D
Entries 94
Mean −0.004486
Std Dev 1.037



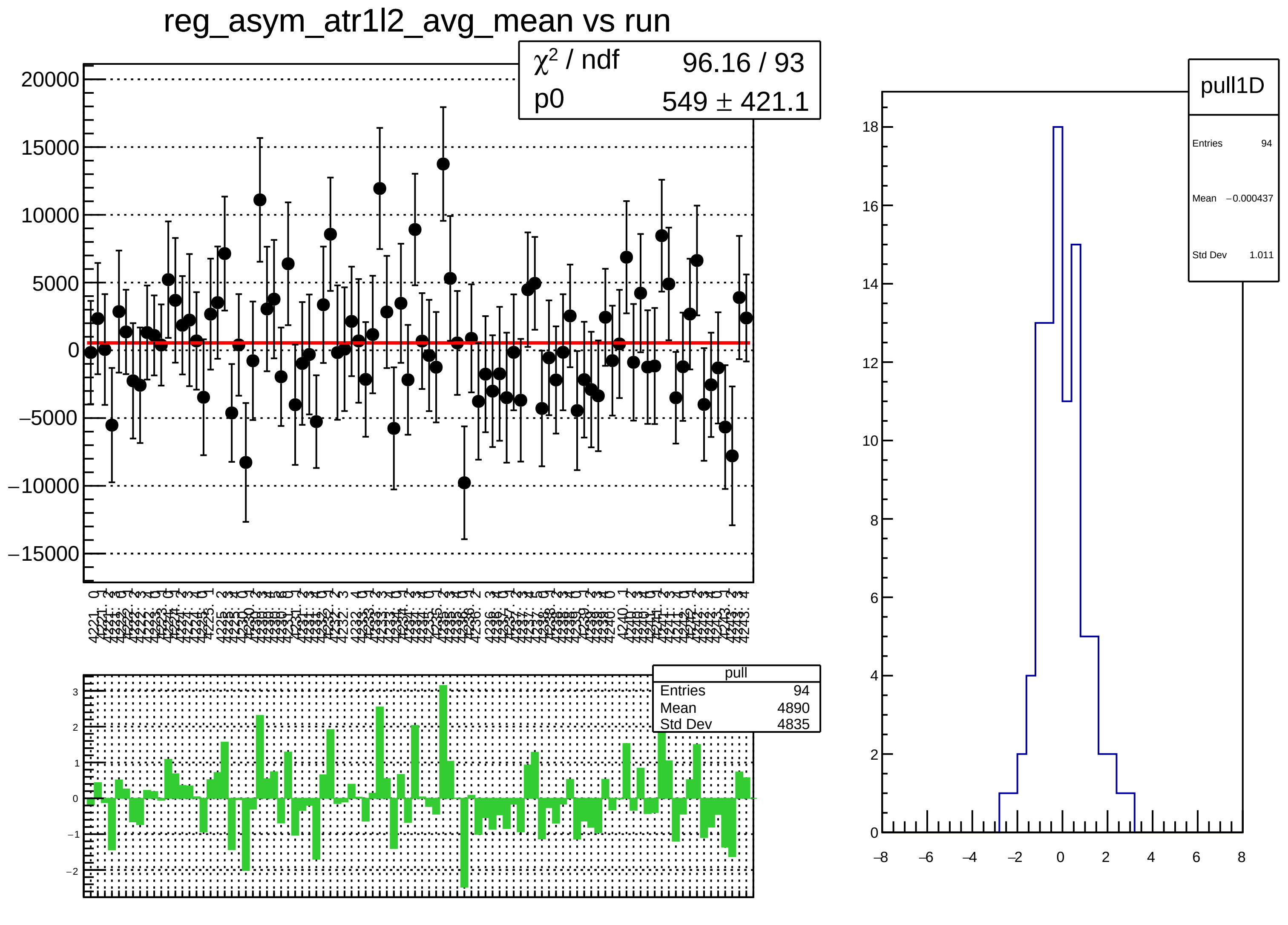
asym_atl1r2_dd_correction_rms vs run
χ^2 / ndf 7573 / 93
p0 1448 ± 1.062
1600
1500
1400
1300
1200
1100



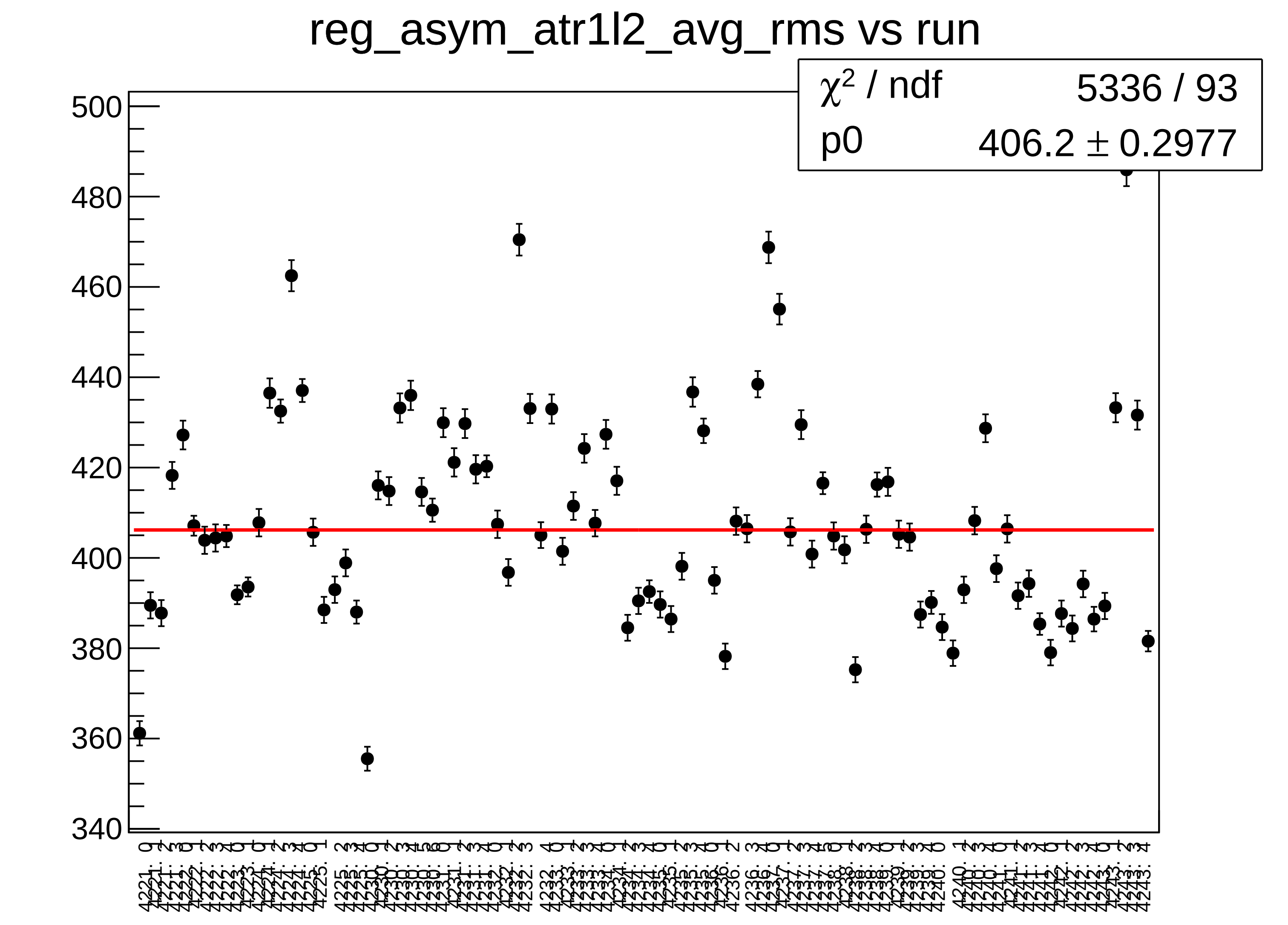
asym_atl1r2_dd_mean vs run
χ^2 / ndf 96.25 / 93
p0 −190.6 ± 1545
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 113
Std Dev 78.08
pull1D
Entries 94
Mean 0.003622
Std Dev 1.012

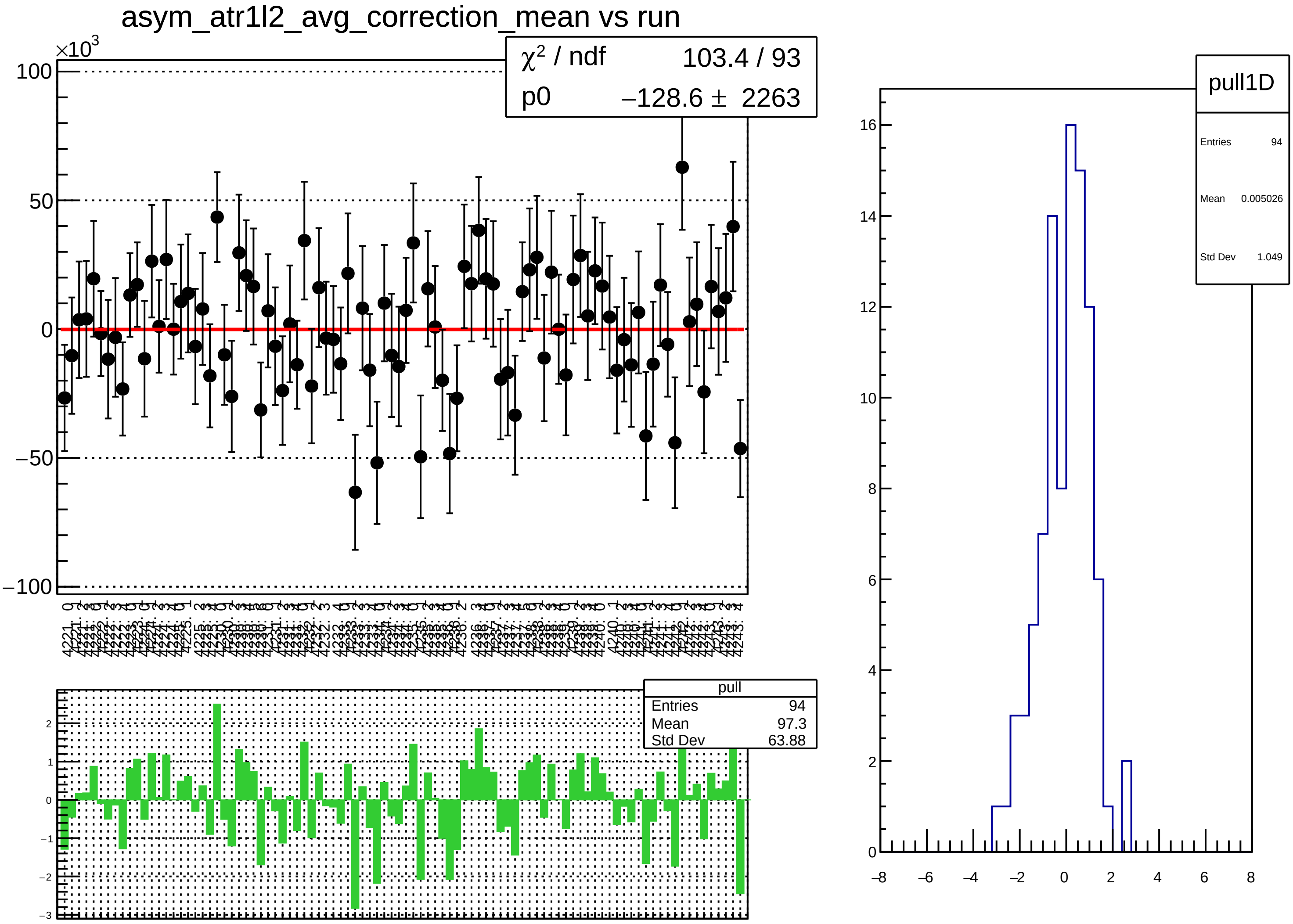


asym_atl1r2_dd_rms vs run
χ2 / ndf 6727 / 93
p0 1490 ± 1.093
1700
1600
1500
1400
1300
1200

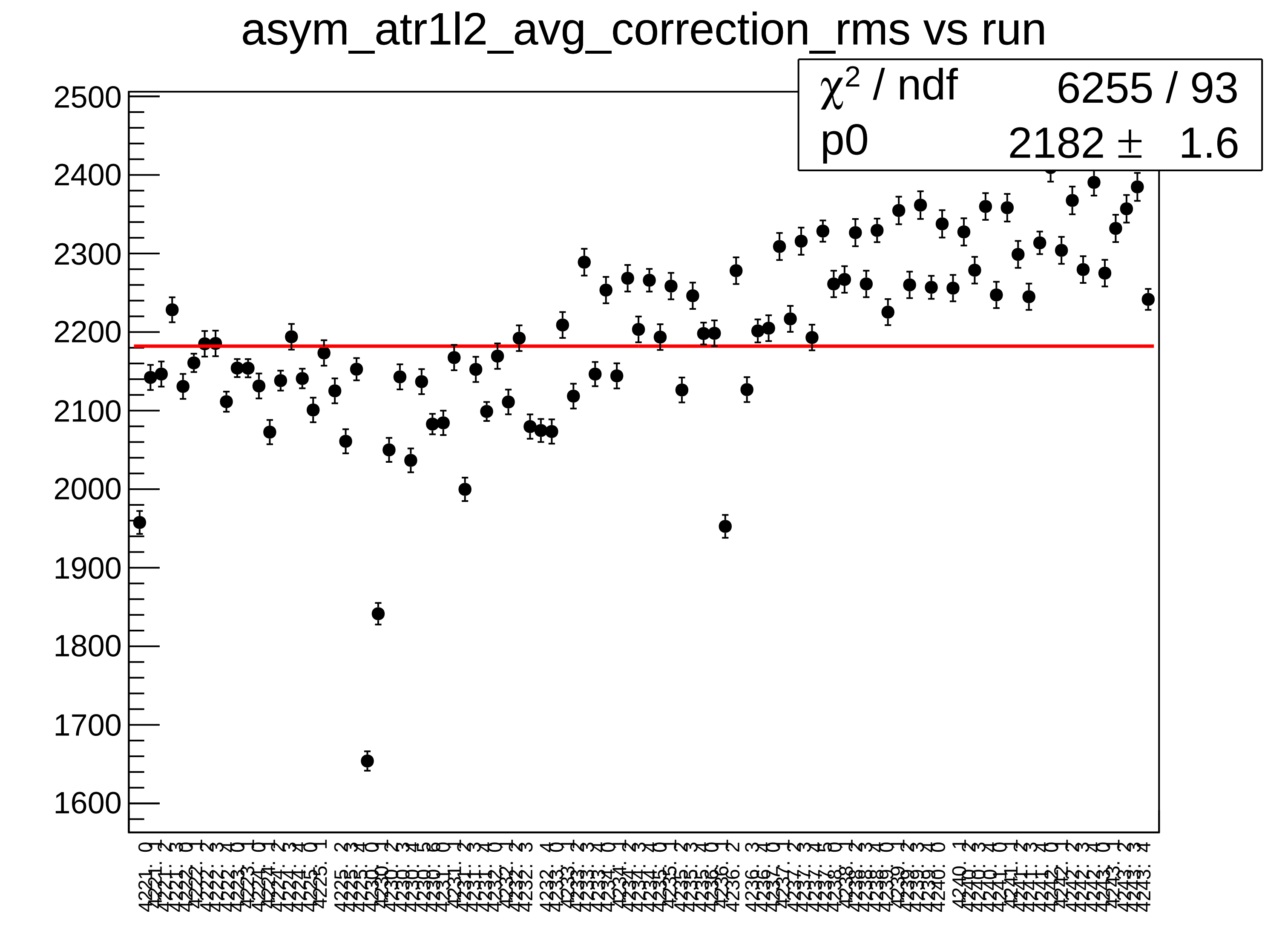


reg_asym_atr1l2_avg_mean vs run
χ2 / ndf 96.16 / 93
p0 549 ± 421.1
pull
Entries 94
Mean 4890
Std Dev 4835
pull1D
Entries 94
Mean −0.000437
Std Dev 1.011

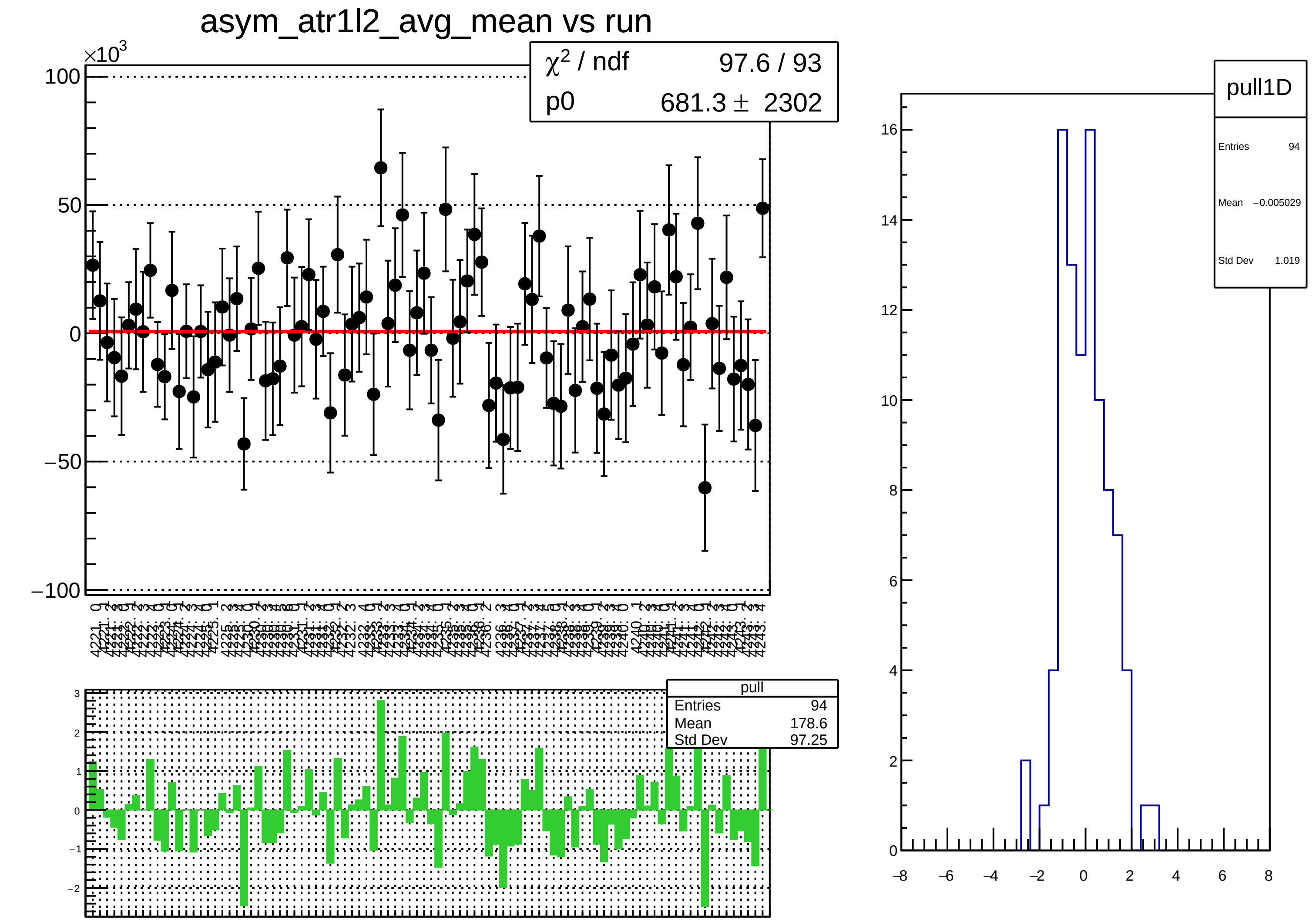

reg_asym_atr1l2_avg_rms vs run
χ2 / ndf 5336 / 93
p0 406.2 ± 0.2977
500
480
460
440
420
400
380
360
340



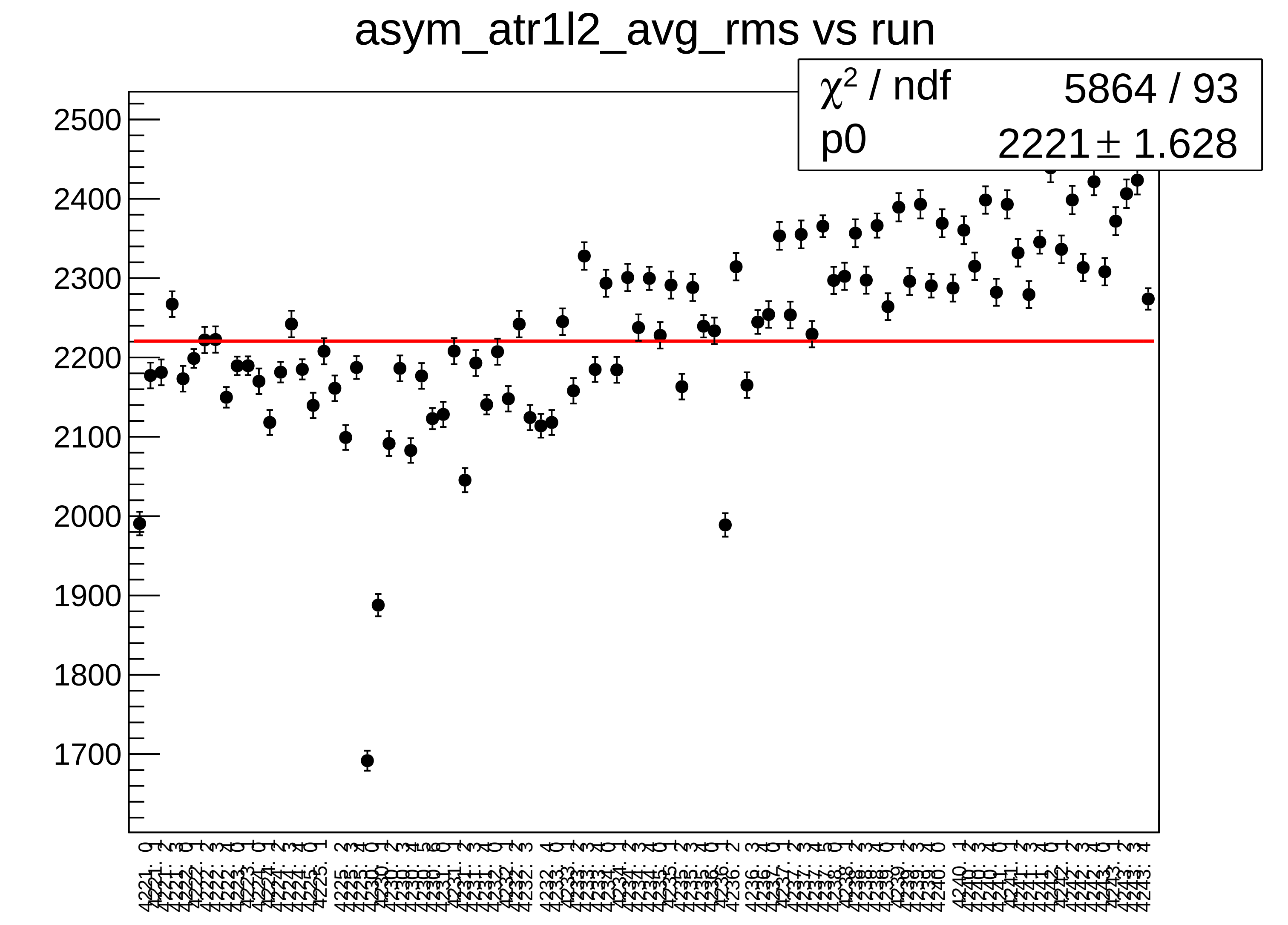
asym_atr1l2_avg_correction_mean vs run
$\times 10^3$
χ^2 / ndf 103.4 / 93
p0 −128.6 ± 2263
pull
Entries 94
Mean 97.3
Std Dev 63.88
pull1D
Entries 94
Mean 0.005026
Std Dev 1.049

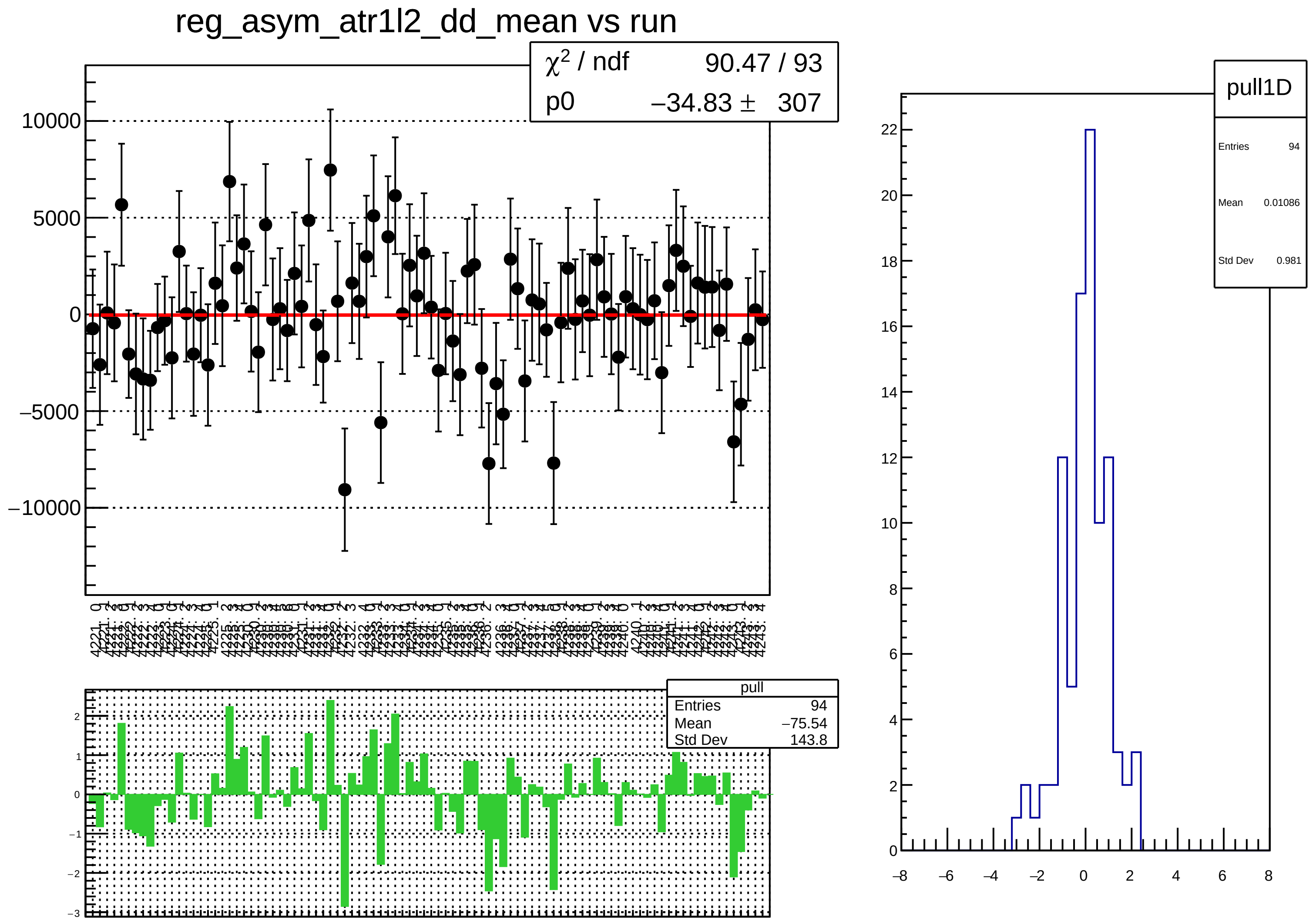


asym_atr1l2_avg_correction_rms vs run
χ^2 / ndf 6255 / 93
p0 2182 ± 1.6
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

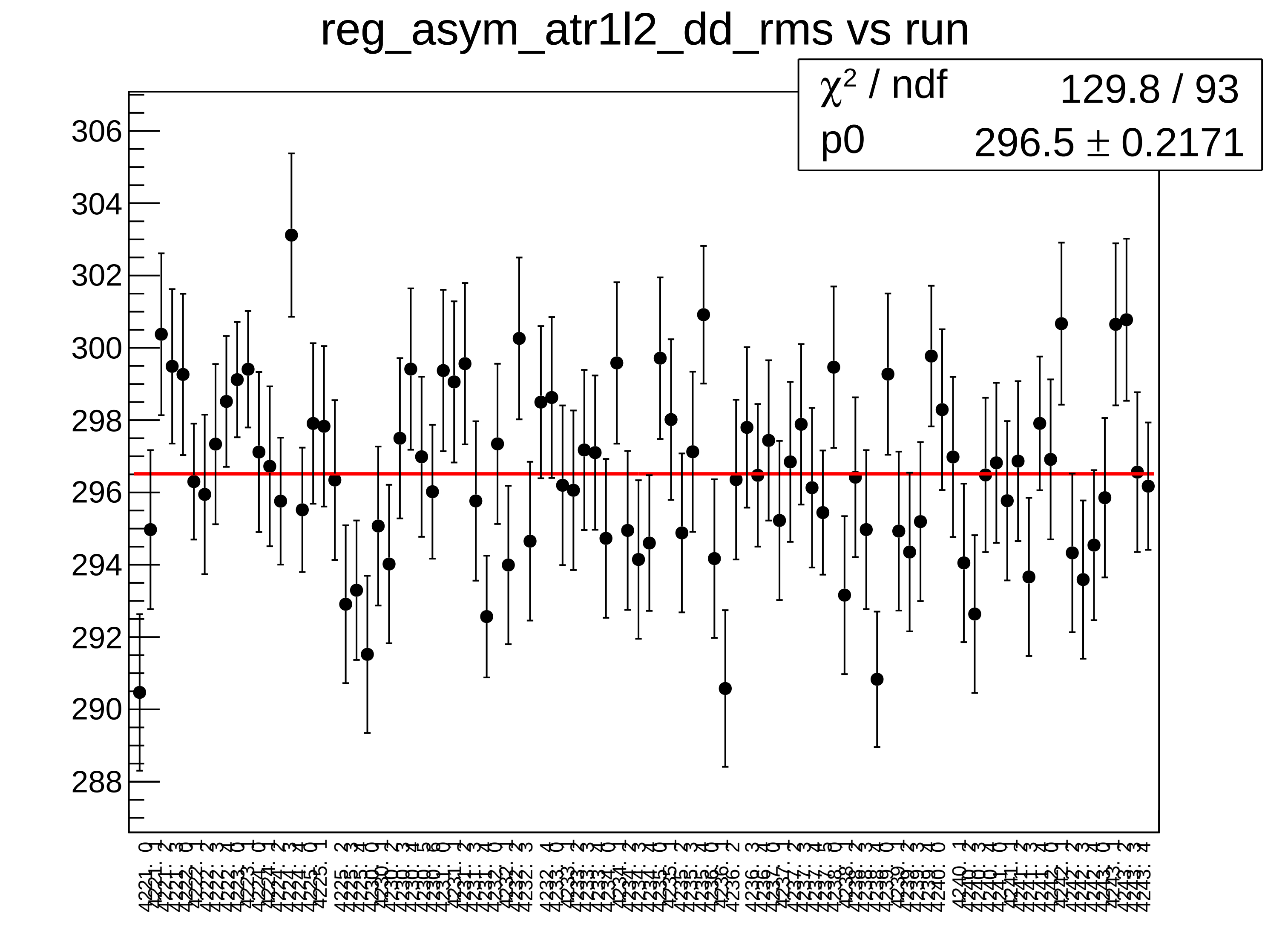


asym_atr1l2_avg_mean vs run
×10^3
χ2 / ndf 97.6 / 93
p0 681.3 ± 2302
pull
Entries 94
Mean 178.6
Std Dev 97.25
pull1D
Entries 94
Mean −0.005029
Std Dev 1.019

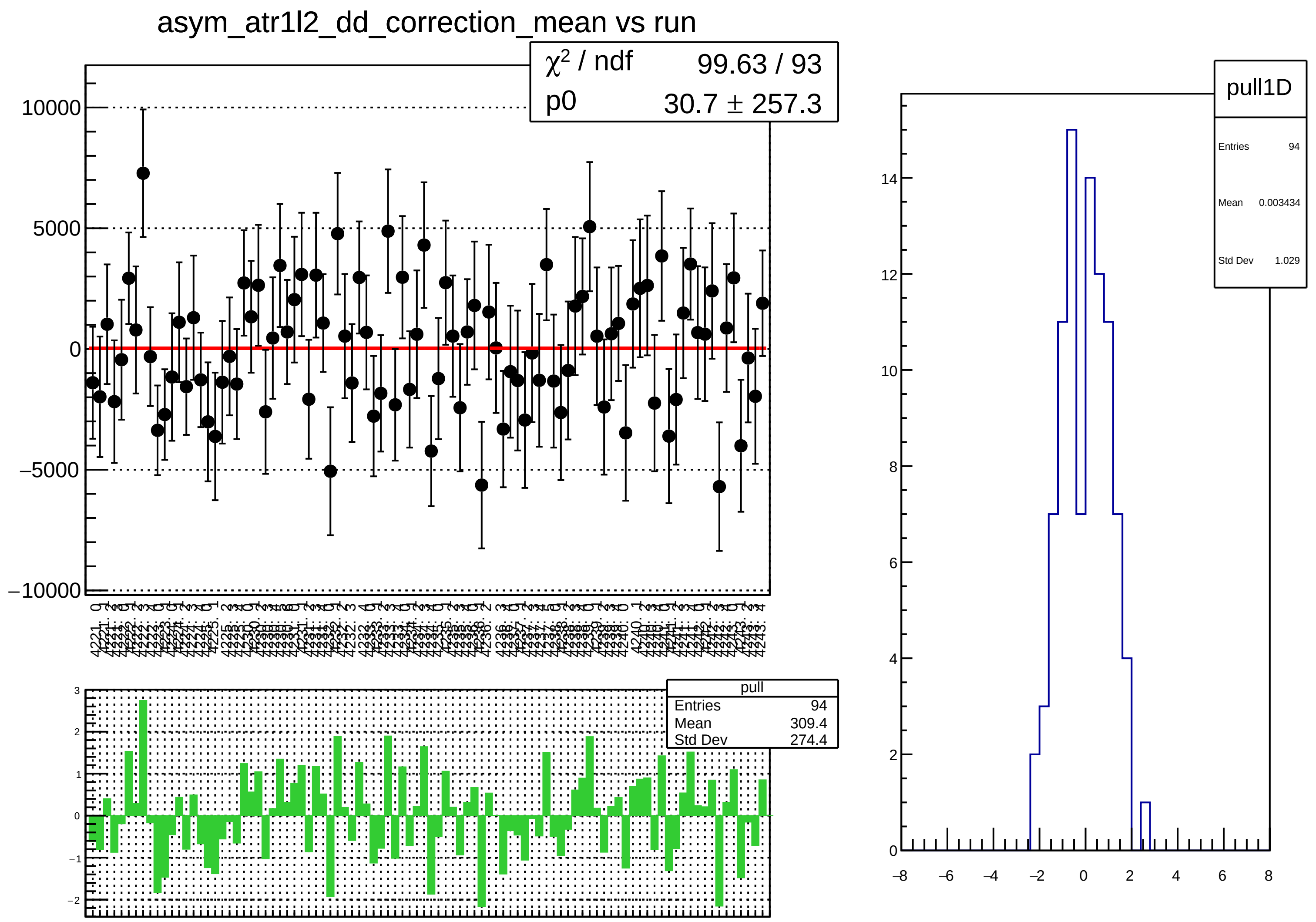

asym_atr1l2_avg_rms vs run
χ2 / ndf 5864 / 93
p0 2221 ± 1.628
2500
2400
2300
2200
2100
2000
1900
1800
1700

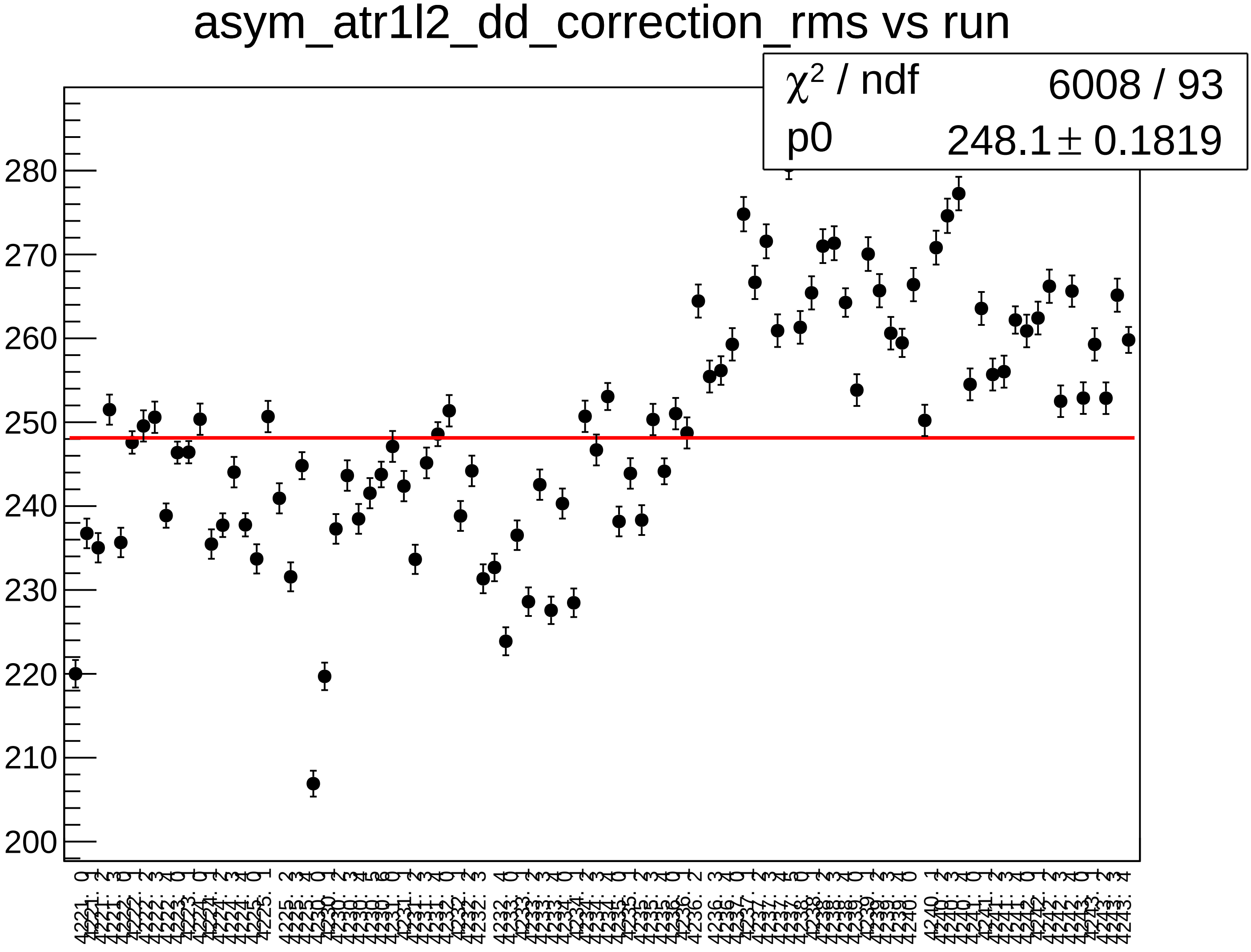


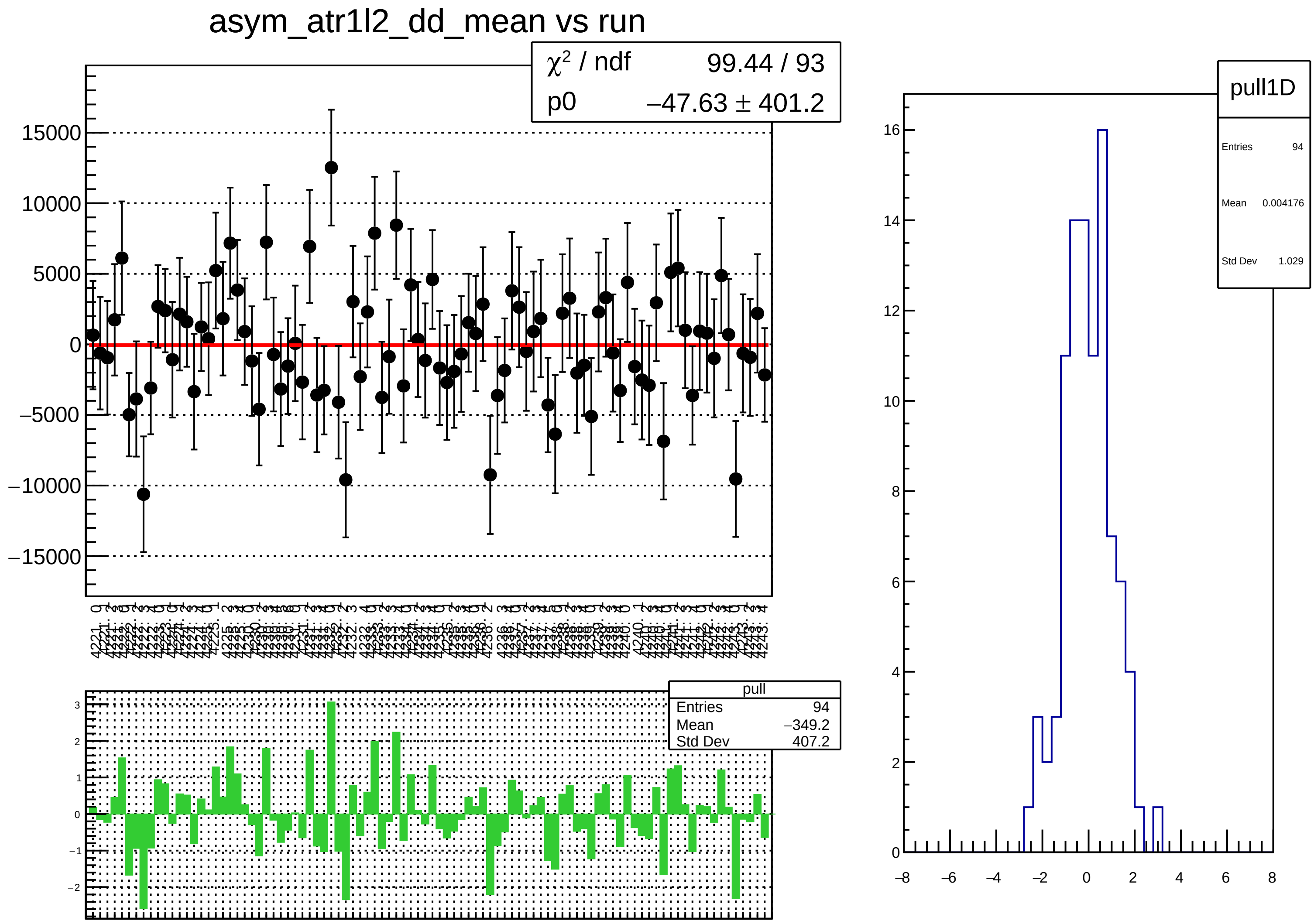
reg_asym_atr1l2_dd_mean vs run
χ2 / ndf 90.47 / 93
p0 −34.83 ± 307
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −75.54
Std Dev 143.8
pull1D
Entries 94
Mean 0.01086
Std Dev 0.981

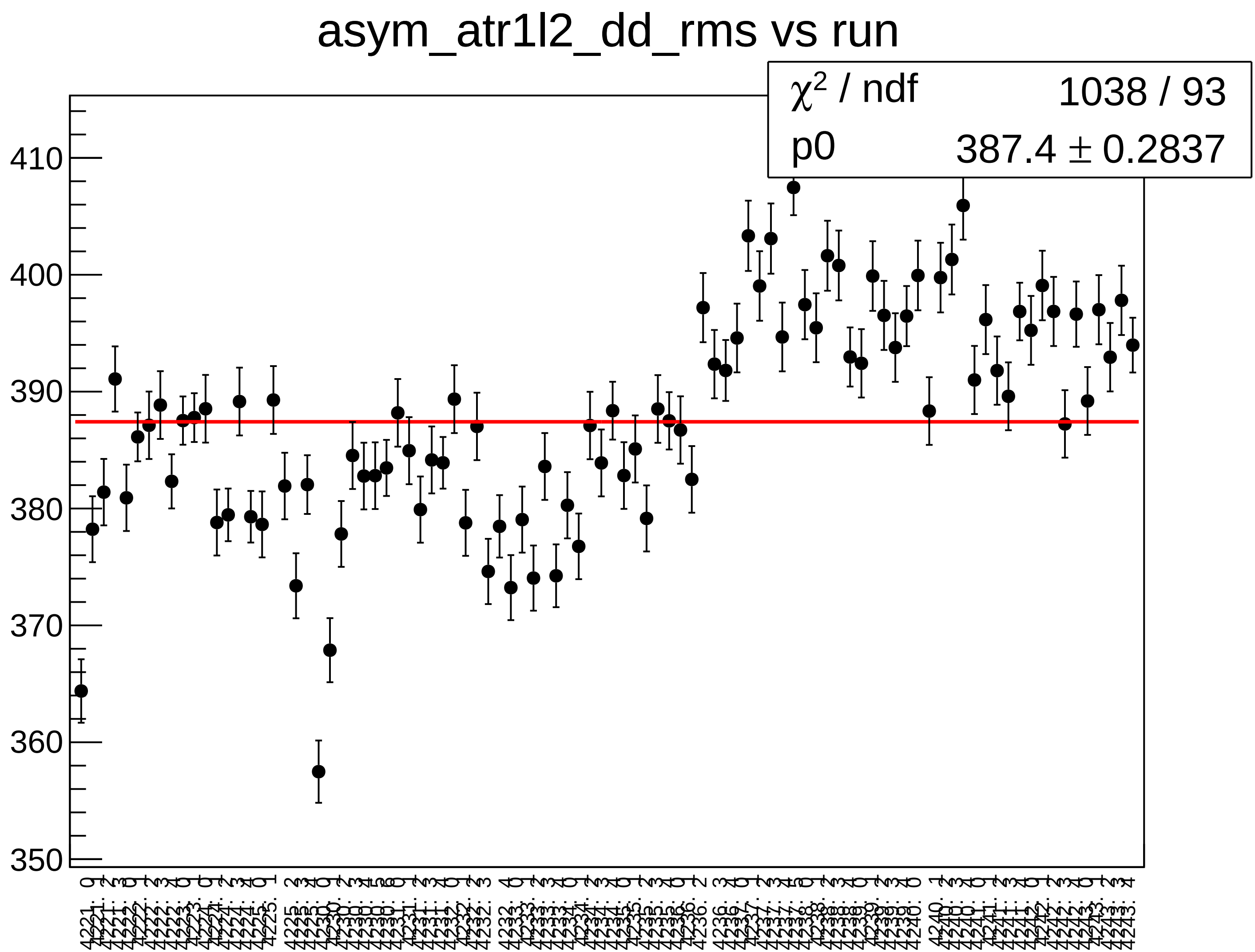


reg_asym_atr1l2_dd_rms vs run
χ2 / ndf 129.8 / 93
p0 296.5 ± 0.2171
306
304
302
300
298
296
294
292
290
288

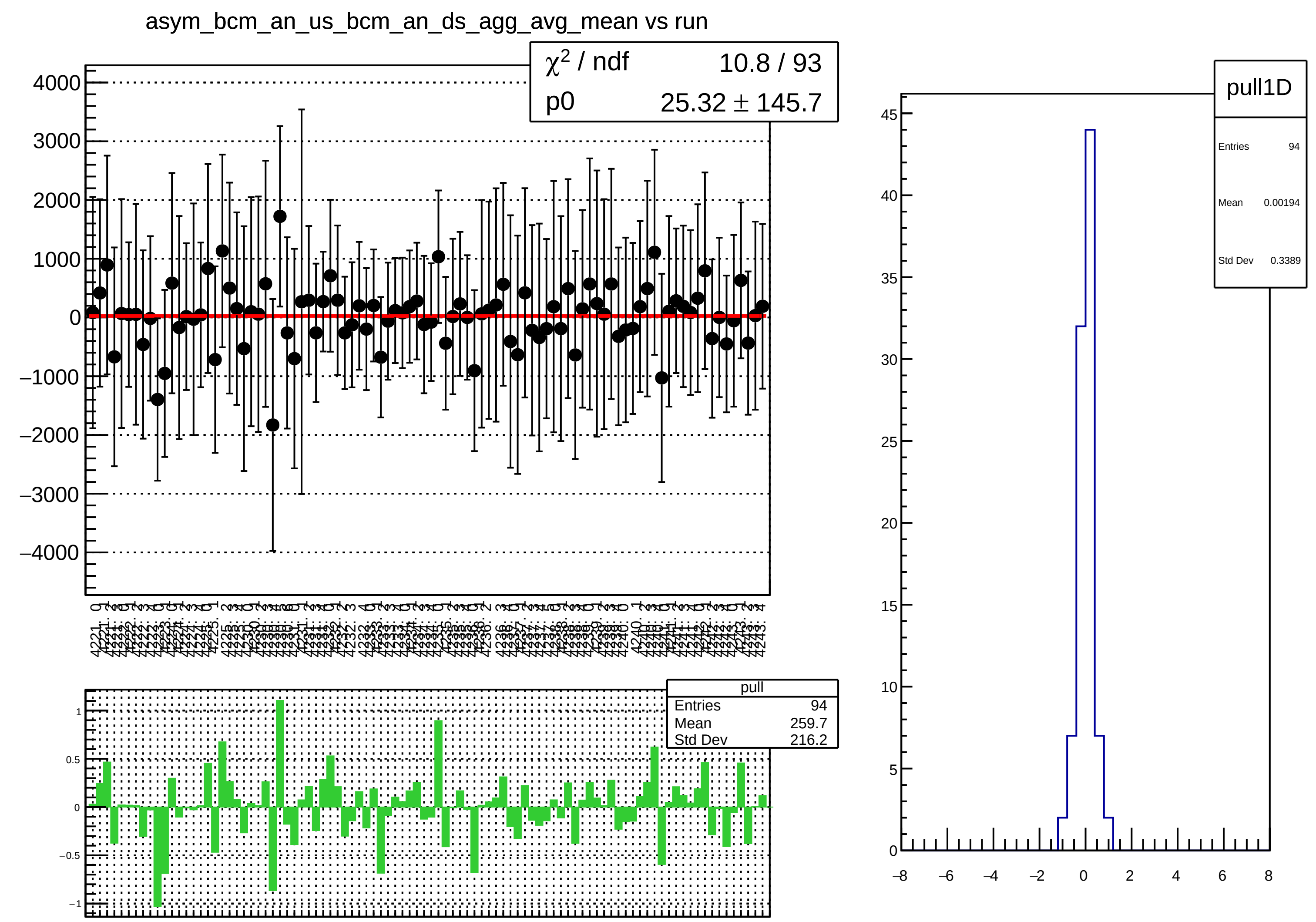

asym_atr1l2_dd_correction_mean vs run
χ^2 / ndf 99.63 / 93
p0 30.7 ± 257.3
10000
5000
0
−5000
−10000
3
2
1
0
−1
−2
pull
Entries 94
Mean 309.4
Std Dev 274.4
pull1D
Entries 94
Mean 0.003434
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_correction_rms vs run
χ2 / ndf 6008 / 93
p0 248.1 ± 0.1819
280
270
260
250
240
230
220
210
200

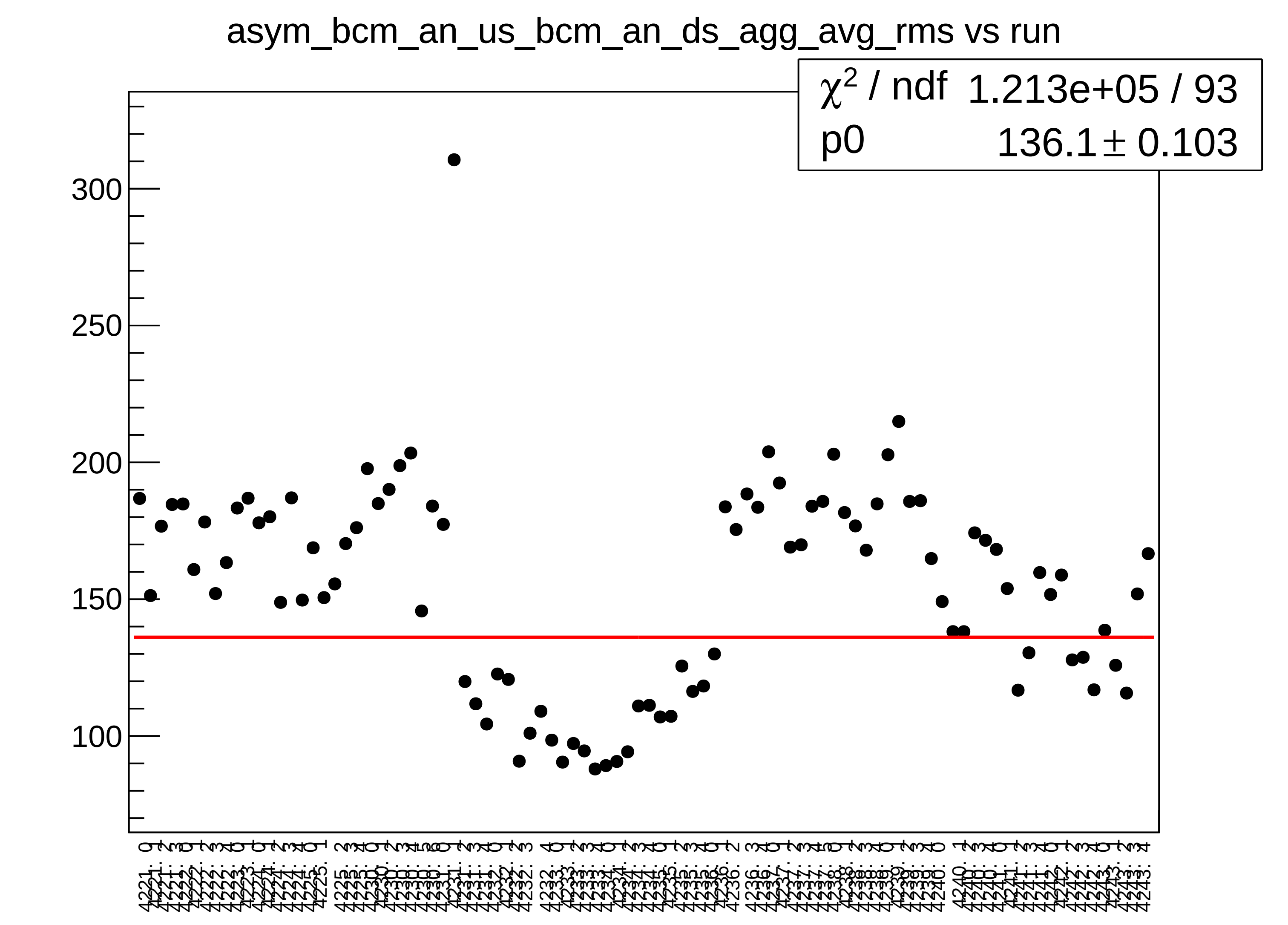

asym_atr1l2_dd_mean vs run
χ2 / ndf 99.44 / 93
p0 −47.63 ± 401.2
pull
Entries 94
Mean −349.2
Std Dev 407.2
pull1D
Entries 94
Mean 0.004176
Std Dev 1.029



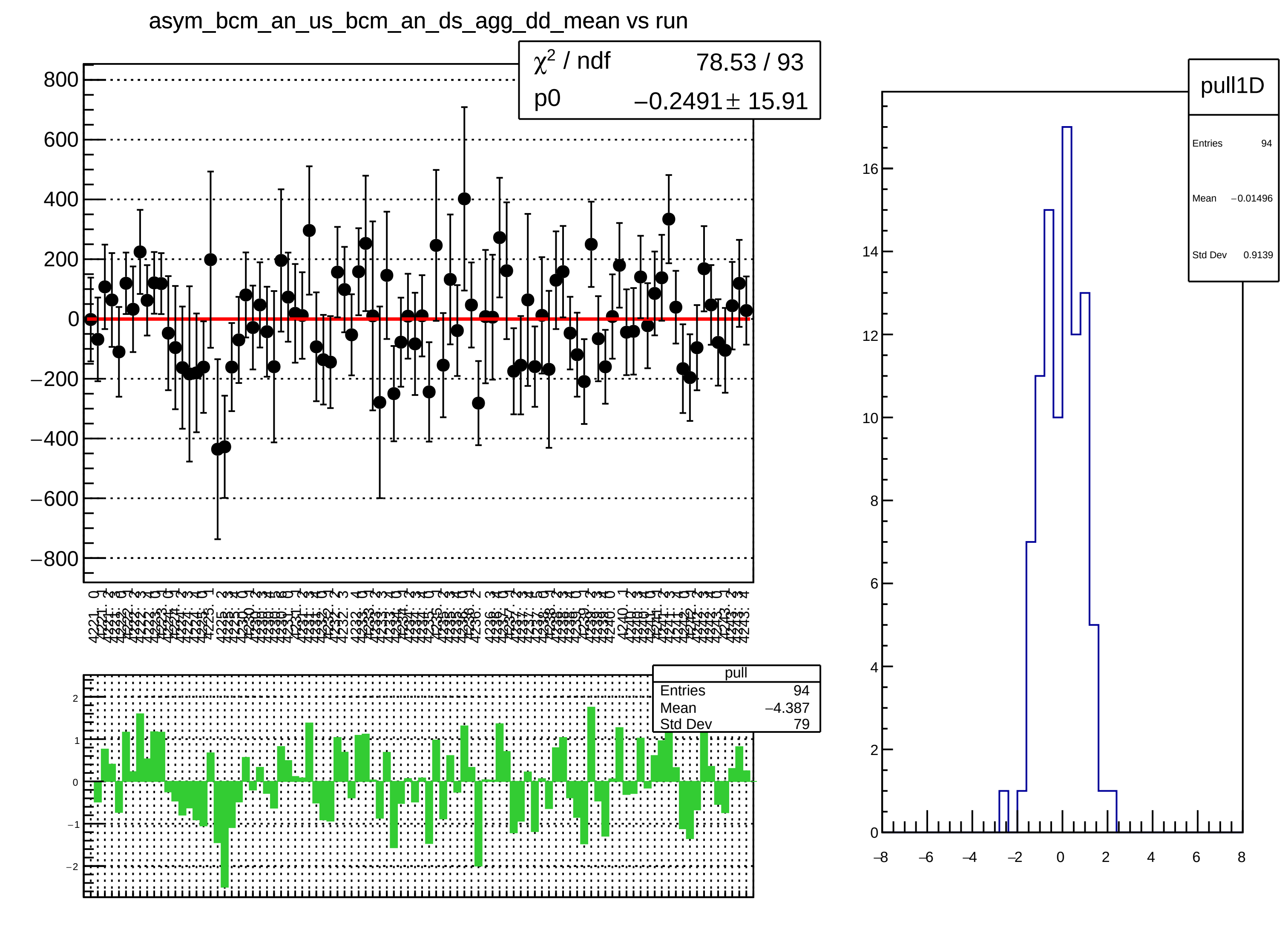
asym_atr1l2_dd_rms vs run
χ2 / ndf 1038 / 93
p0 387.4 ± 0.2837
410
400
390
380
370
360
350



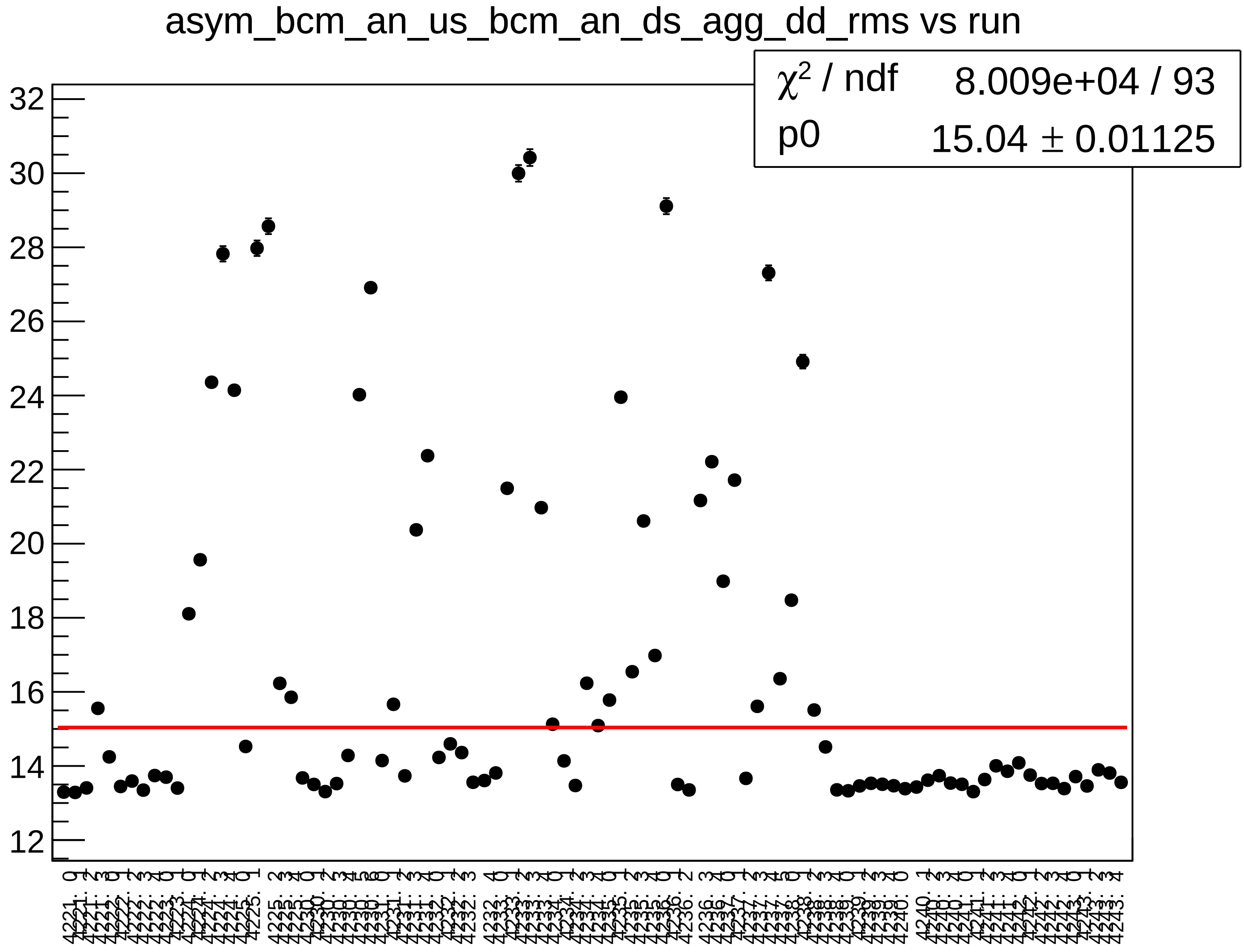
asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ^2 / ndf 10.8 / 93
p0 25.32 ± 145.7
pull
Entries 94
Mean 259.7
Std Dev 216.2
pull1D
Entries 94
Mean 0.00194
Std Dev 0.3389



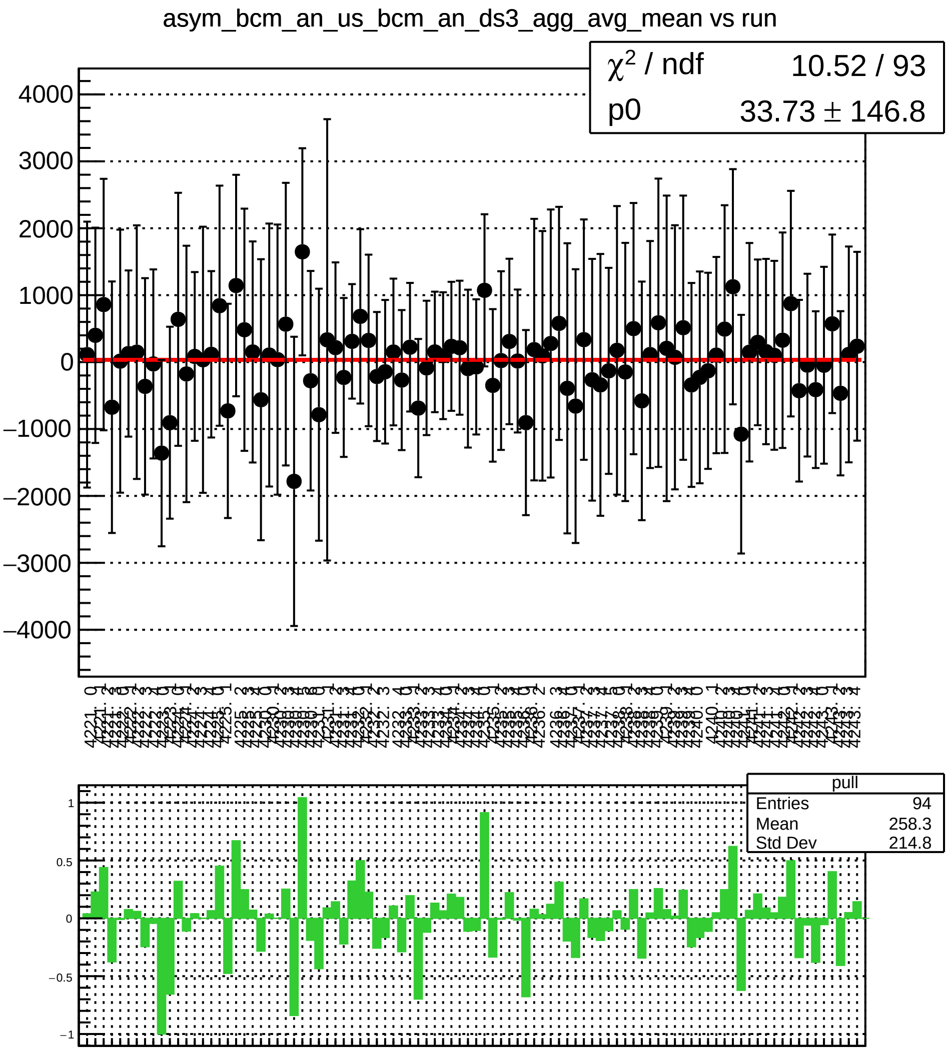
asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 1.213e+05 / 93
p0 136.1 ± 0.103
300
250
200
150
100



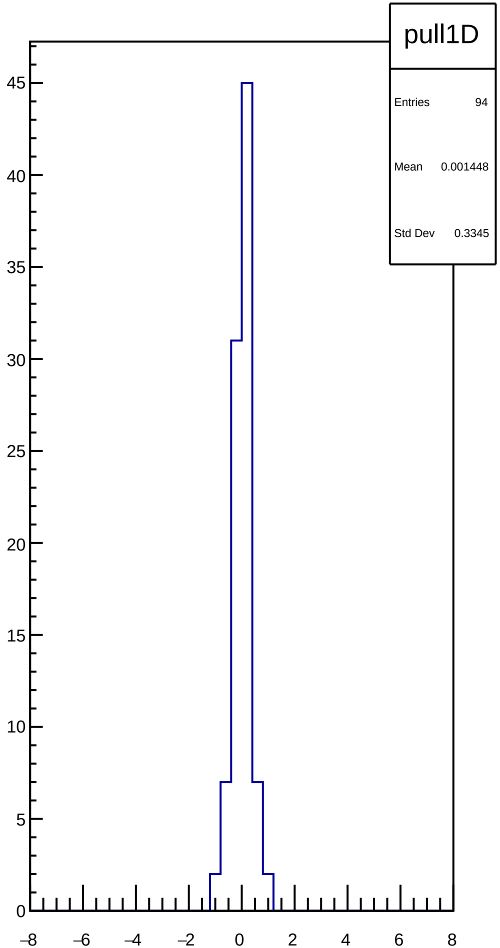
asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ2 / ndf 78.53 / 93
p0 −0.2491 ± 15.91
pull
Entries 94
Mean −4.387
Std Dev 79
pull1D
Entries 94
Mean −0.01496
Std Dev 0.9139



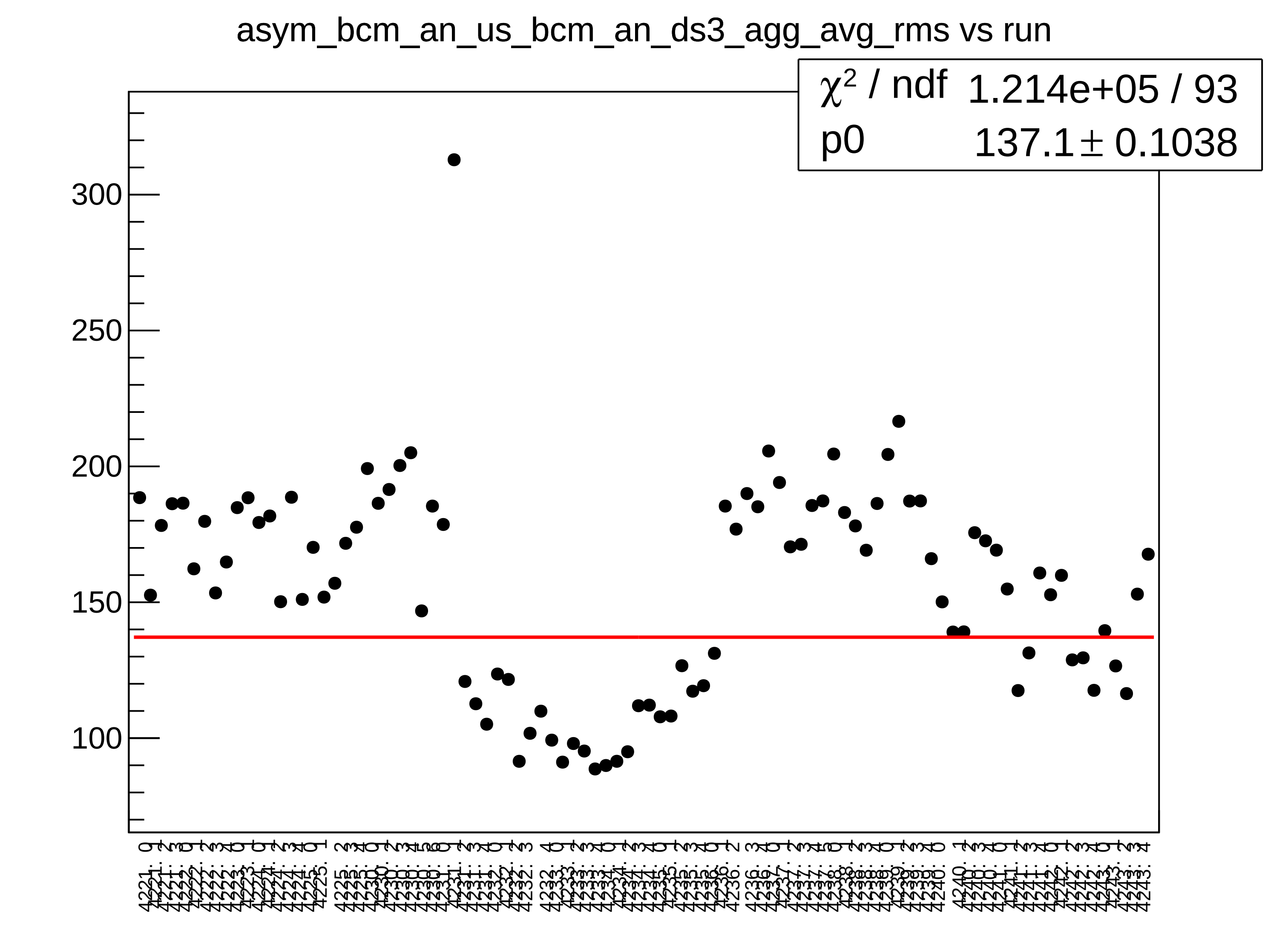
asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 8.009e+04 / 93
p0 15.04 ± 0.01125
32
30
28
26
24
22
20
18
16
14
12



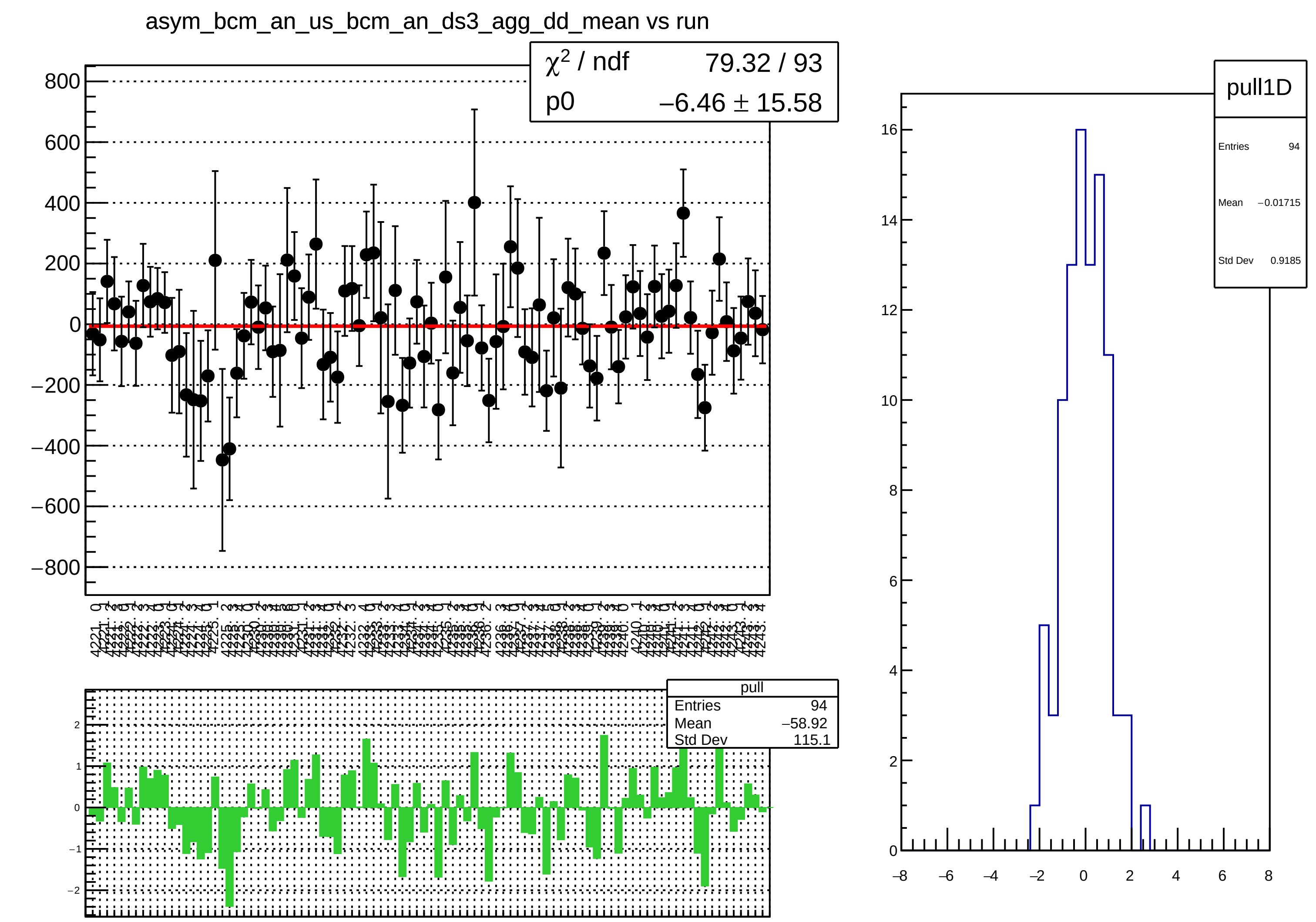
asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ^2 / ndf 10.52 / 93
p0 33.73 ± 146.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean 258.3
Std Dev 214.8
1
0.5
0
−0.5
−1

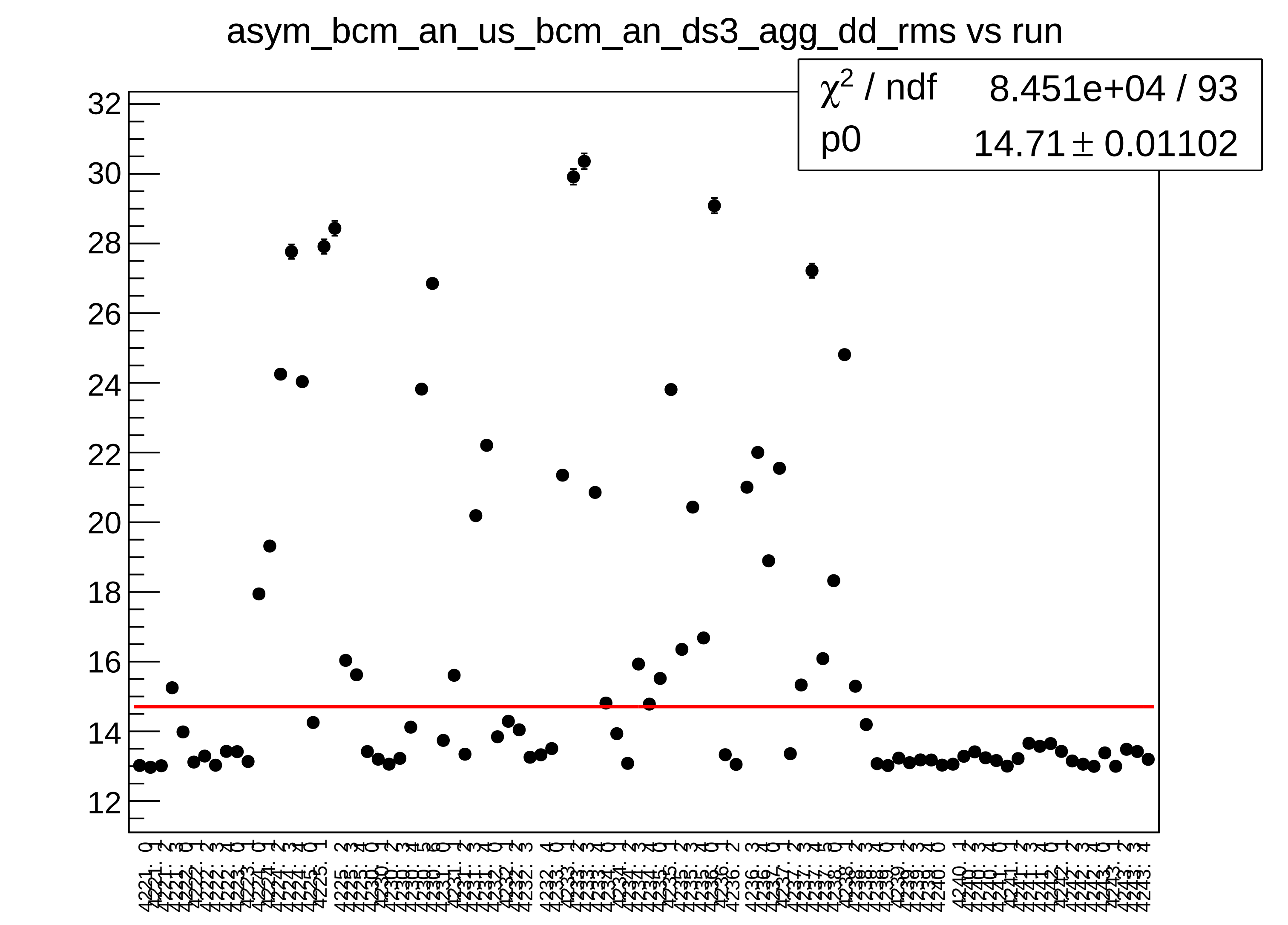


pull1D
Entries 94
Mean 0.001448
Std Dev 0.3345
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

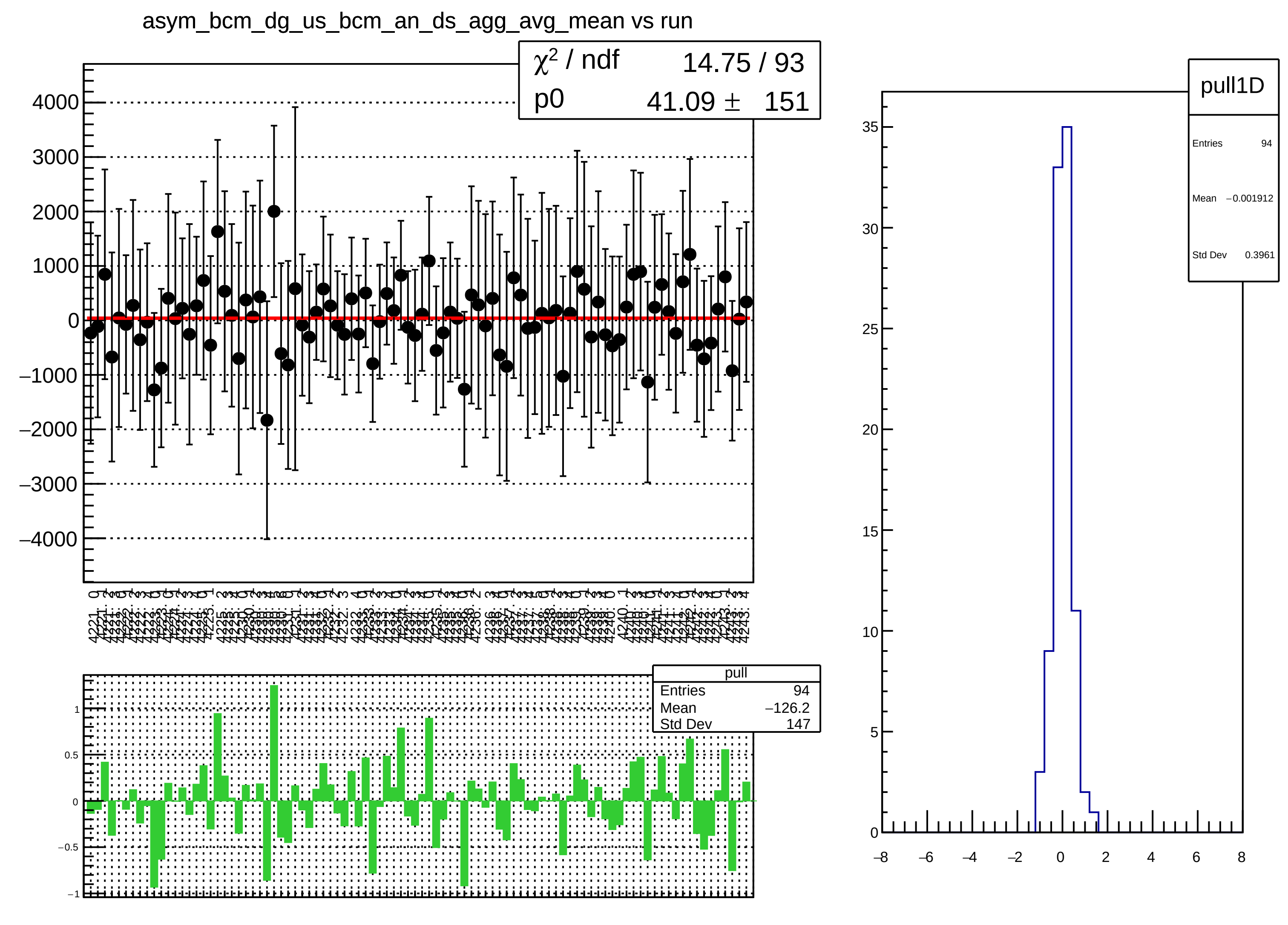


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ^2 / ndf 1.214e+05 / 93
p0 137.1 ± 0.1038
300
250
200
150
100

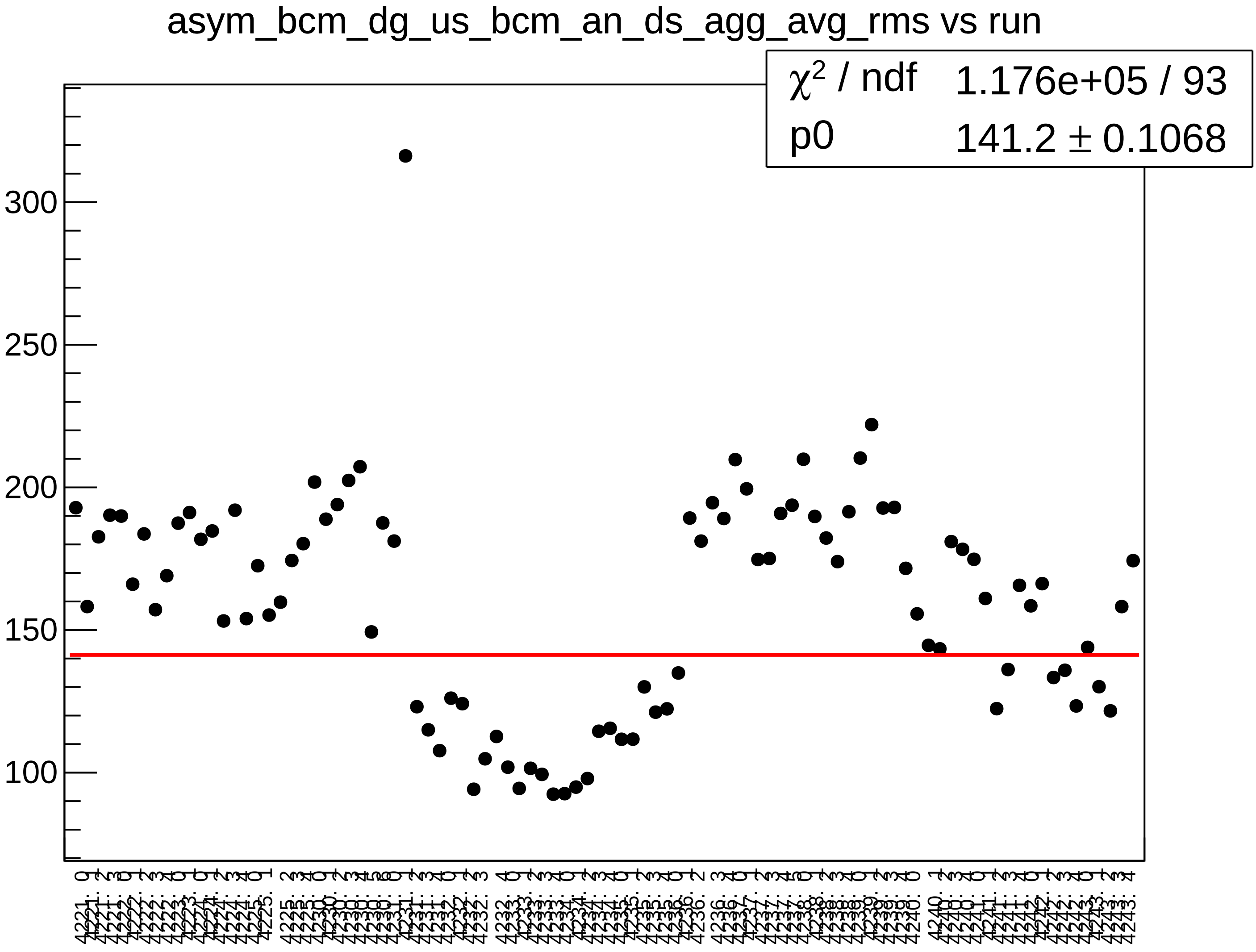

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ2 / ndf 79.32 / 93
p0 −6.46 ± 15.58
pull
Entries 94
Mean −58.92
Std Dev 115.1
pull1D
Entries 94
Mean −0.01715
Std Dev 0.9185



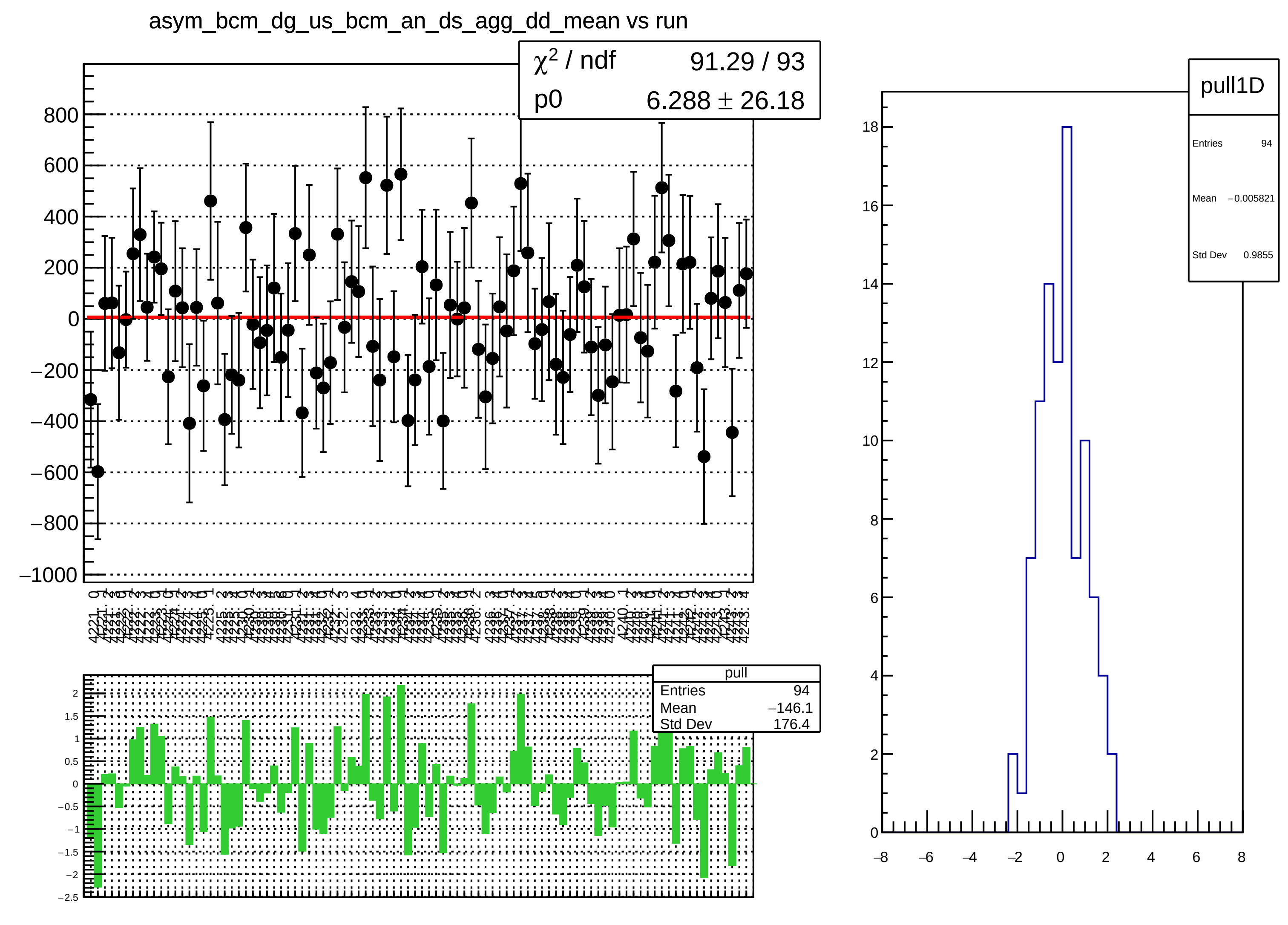
asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ^2 / ndf 8.451e+04 / 93
p0 14.71 ± 0.01102
12
14
16
18
20
22
24
26
28
30
32



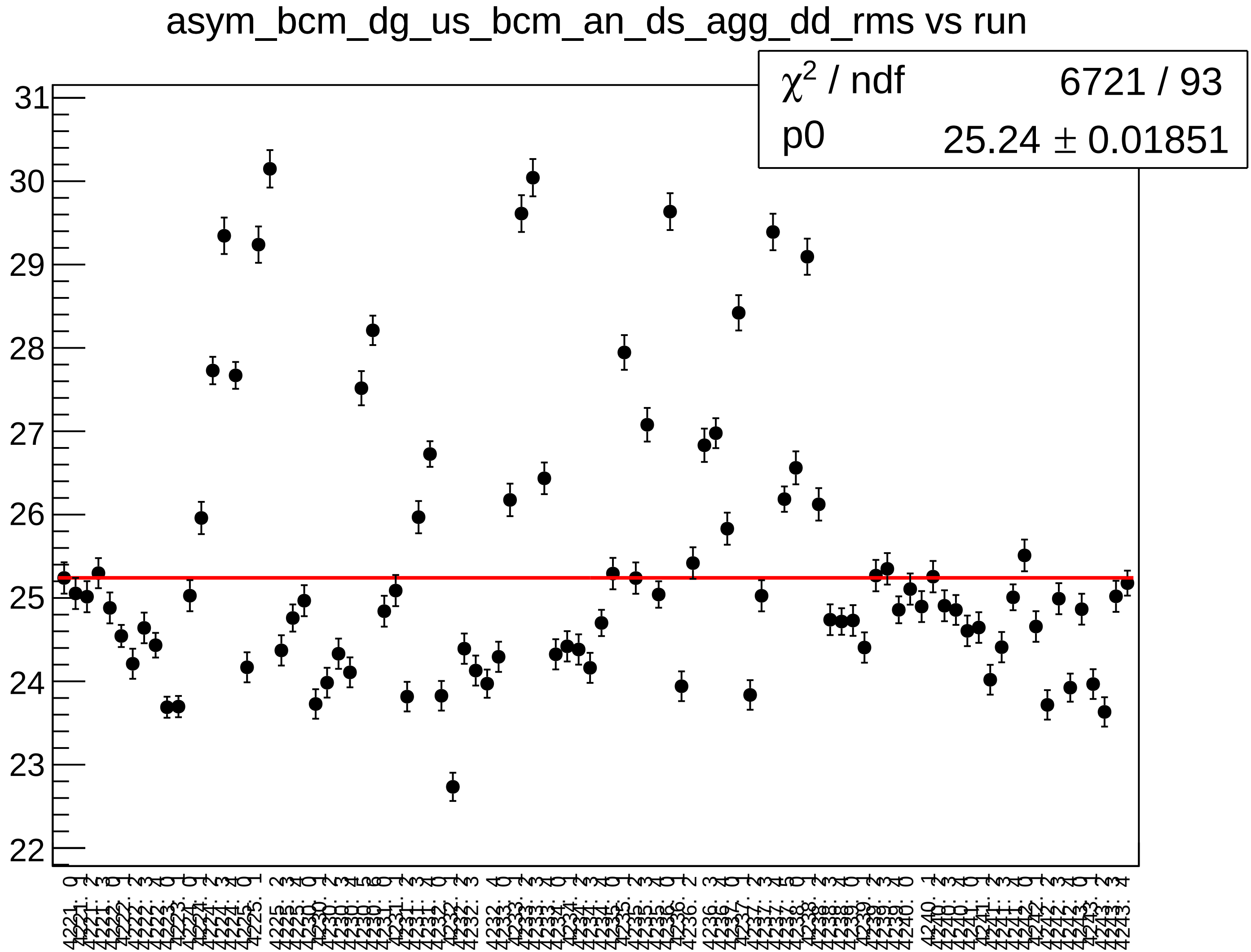
asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ^2 / ndf 14.75 / 93
p0 41.09 ± 151
pull
Entries 94
Mean −126.2
Std Dev 147
pull1D
Entries 94
Mean −0.001912
Std Dev 0.3961



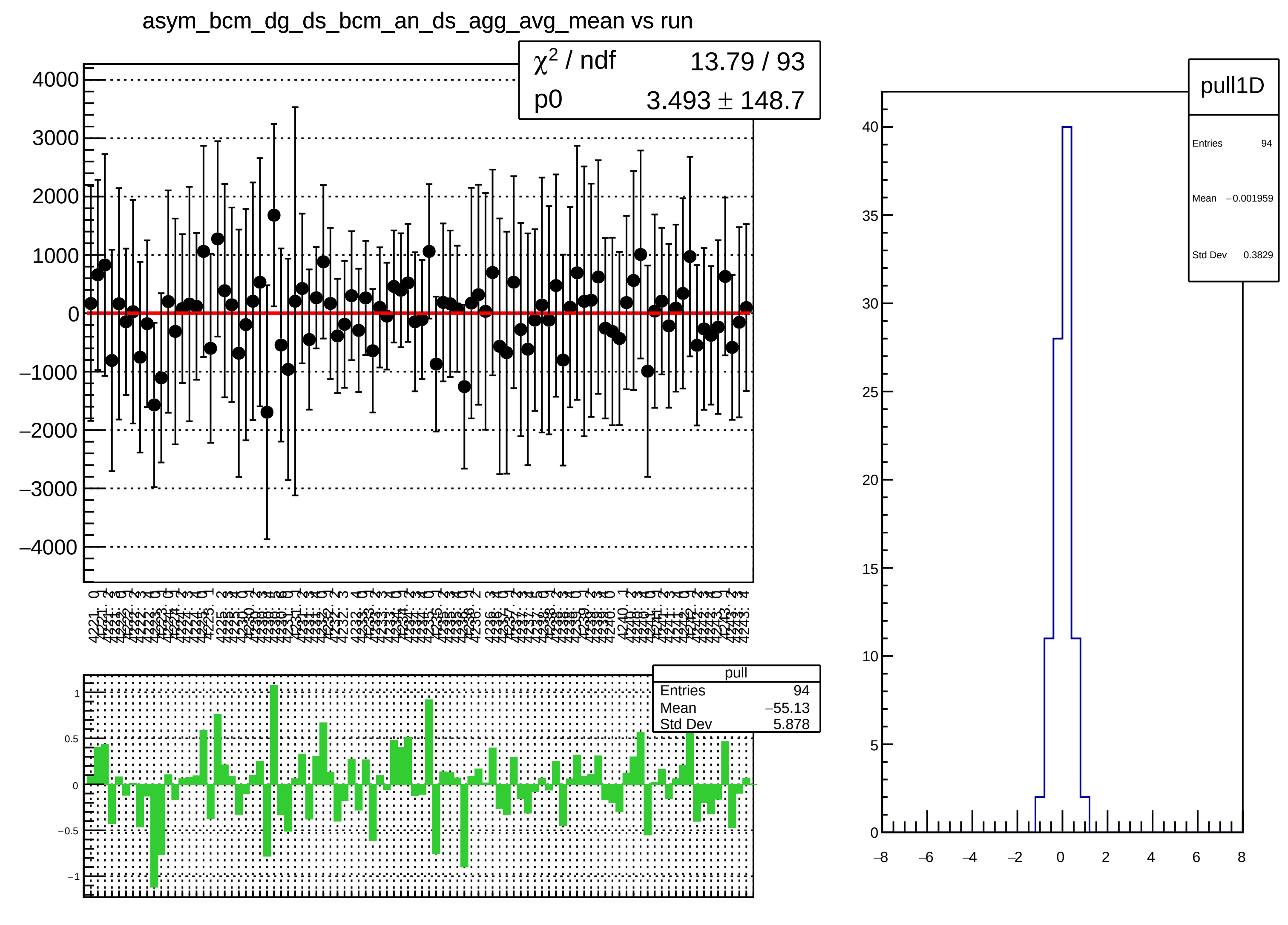
asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ2 / ndf 1.176e+05 / 93
p0 141.2 ± 0.1068
300
250
200
150
100



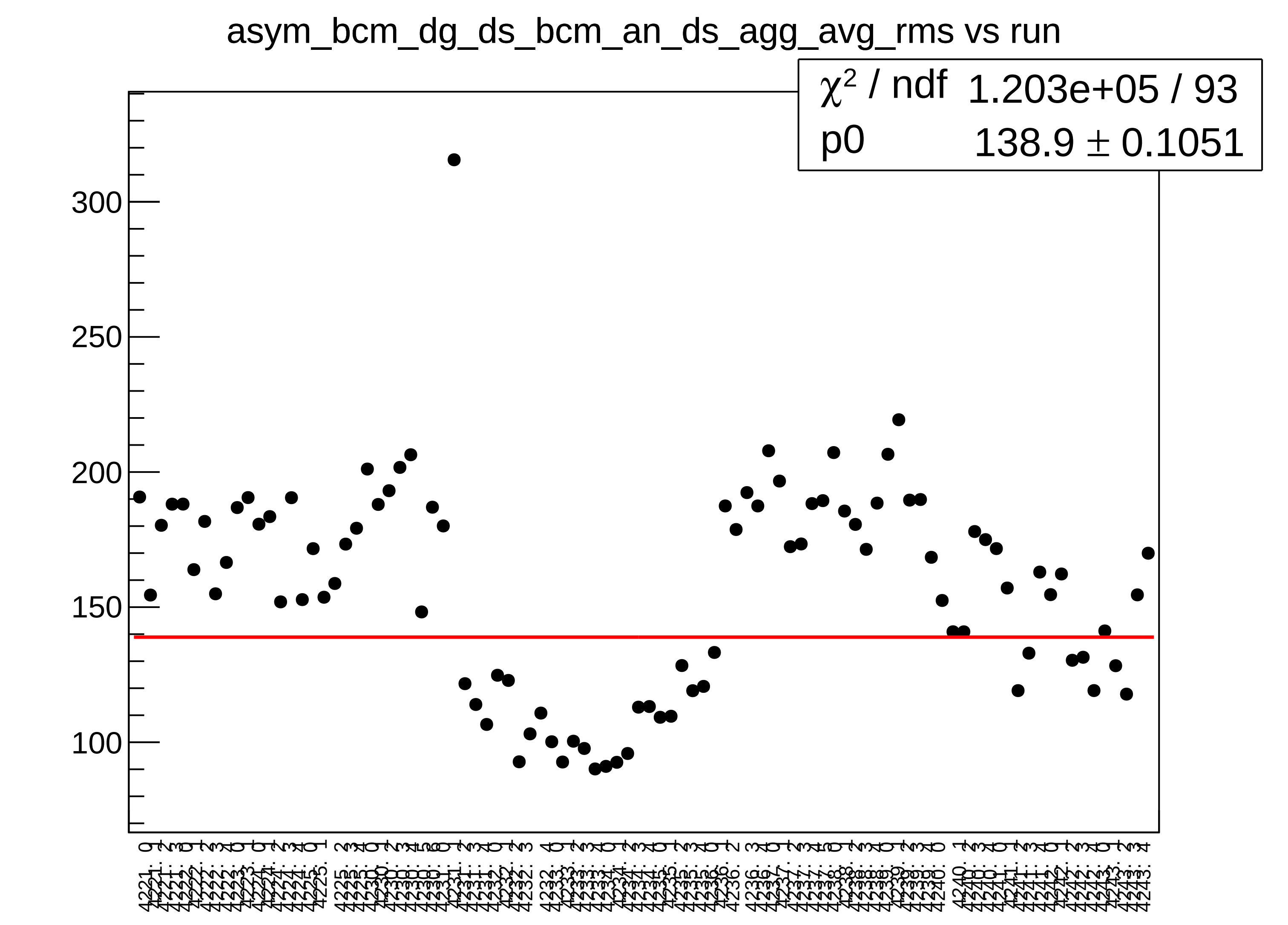
asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ^2 / ndf 91.29 / 93
p0 6.288 ± 26.18
pull
Entries 94
Mean −146.1
Std Dev 176.4
pull1D
Entries 94
Mean −0.005821
Std Dev 0.9855



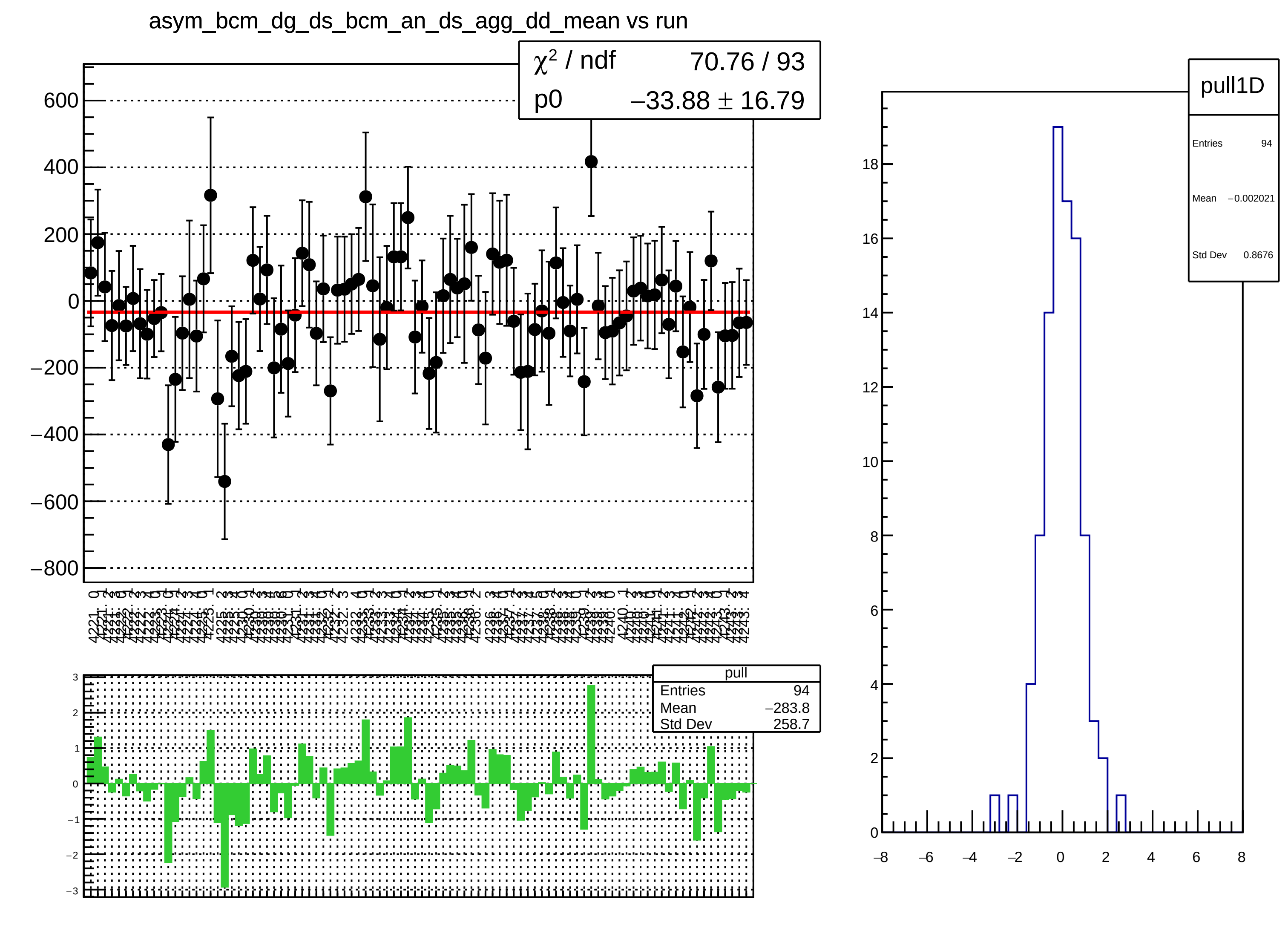
asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 6721 / 93
p0 25.24 ± 0.01851
31
30
29
28
27
26
25
24
23
22



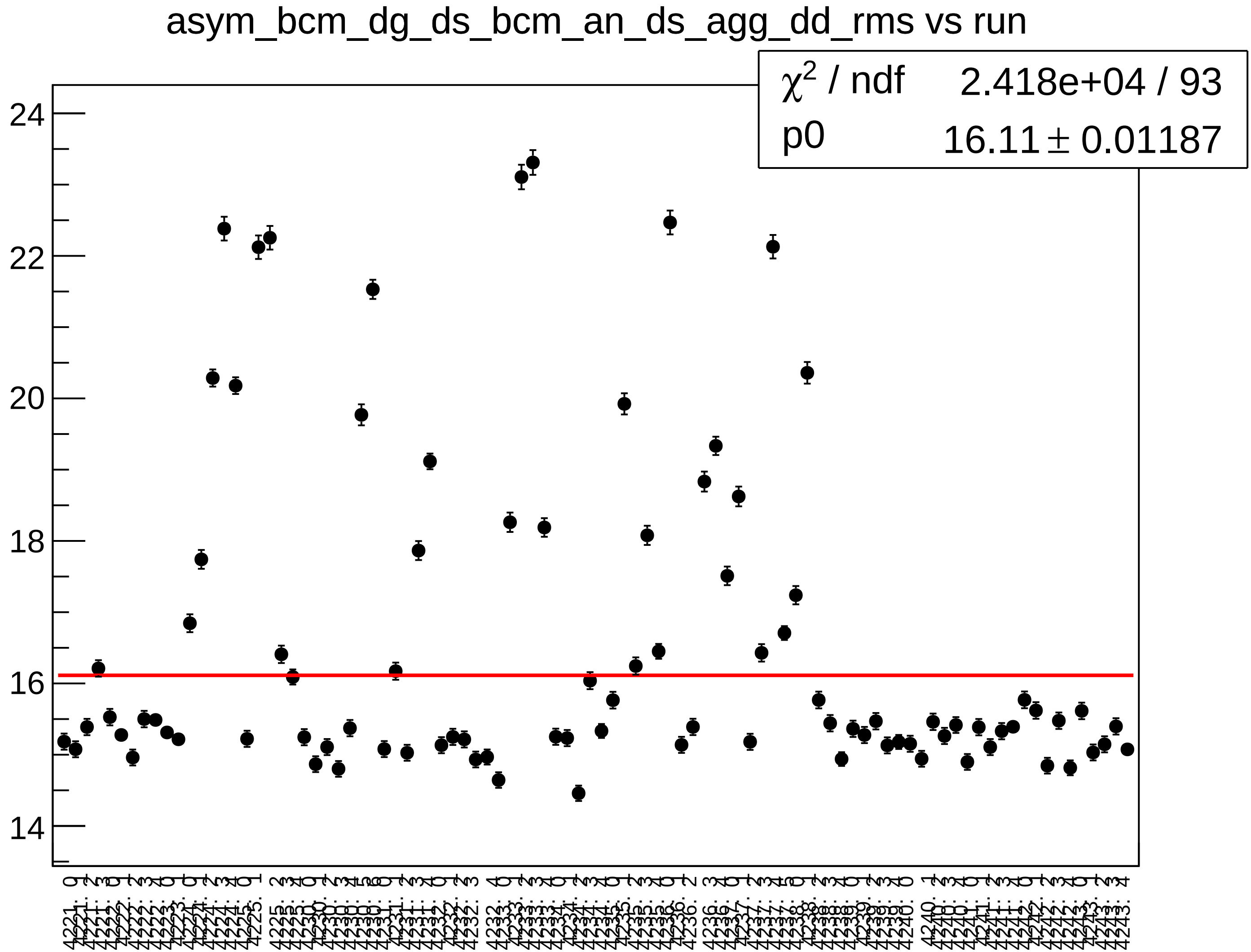
asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ2 / ndf 13.79 / 93
p0 3.493 ± 148.7
pull
Entries 94
Mean −55.13
Std Dev 5.878
pull1D
Entries 94
Mean −0.001959
Std Dev 0.3829



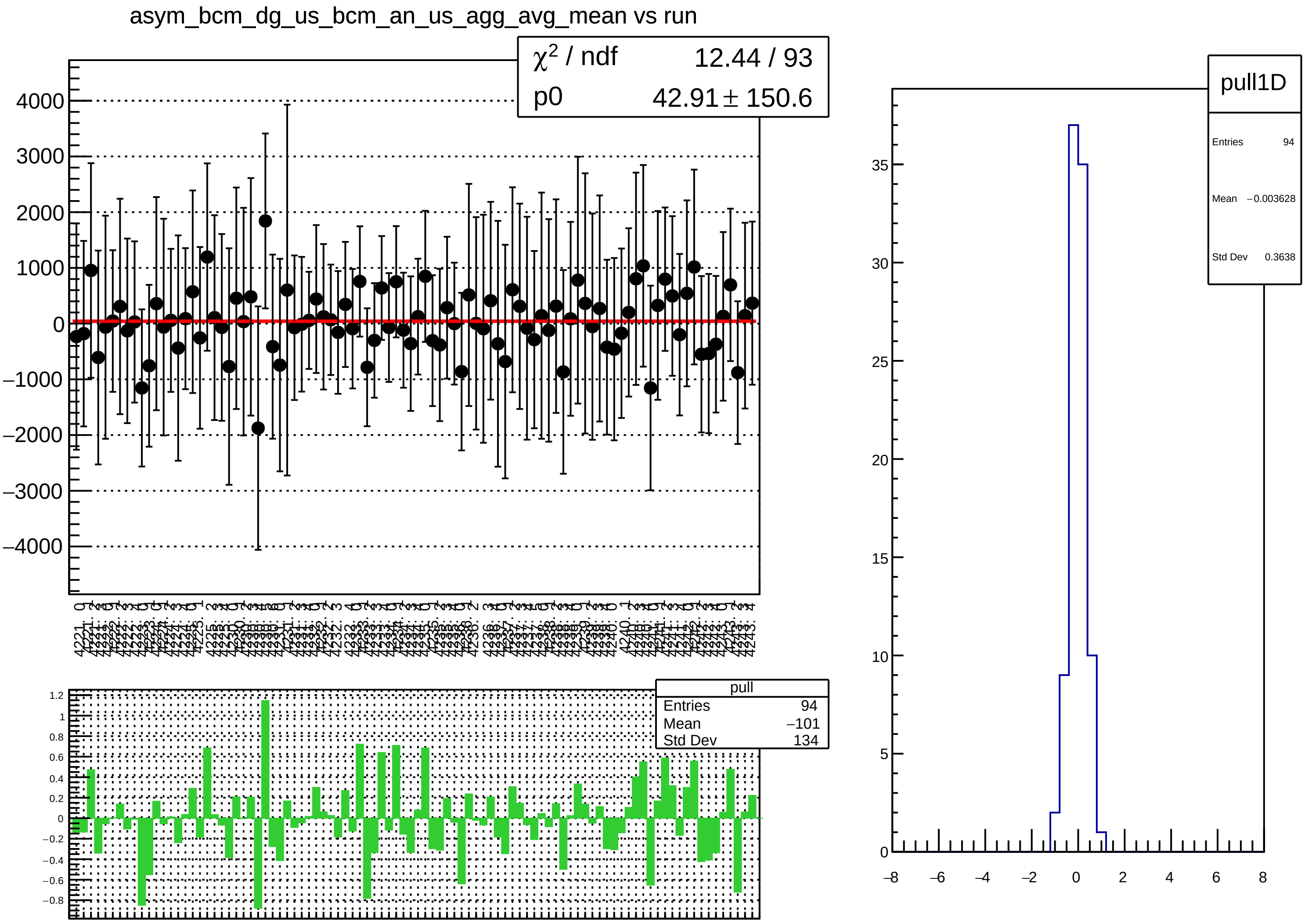
asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ2 / ndf 1.203e+05 / 93
p0 138.9 ± 0.1051
300
250
200
150
100



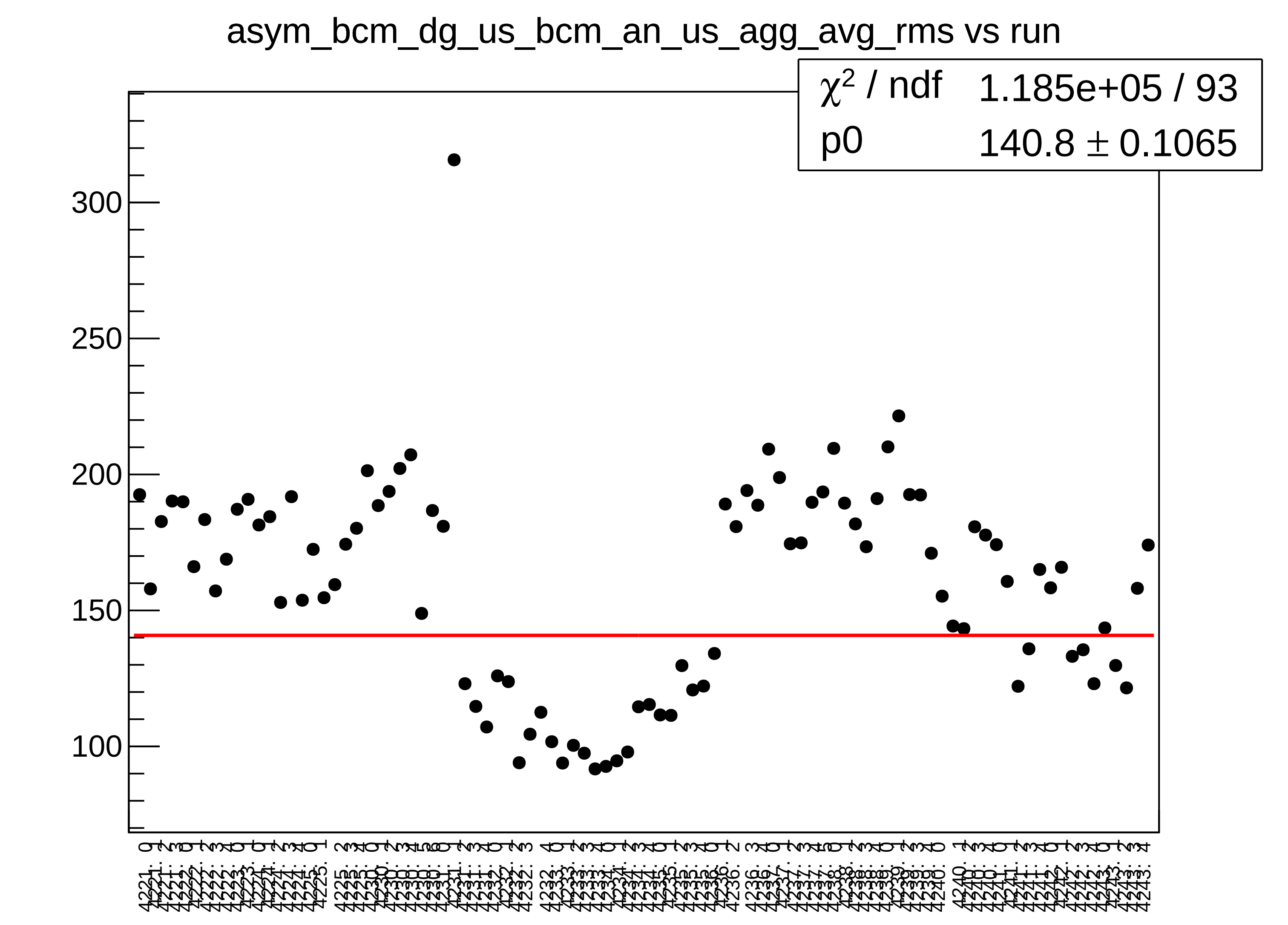
asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ^2 / ndf 70.76 / 93
p0 −33.88 ± 16.79
pull
Entries 94
Mean −283.8
Std Dev 258.7
pull1D
Entries 94
Mean −0.002021
Std Dev 0.8676



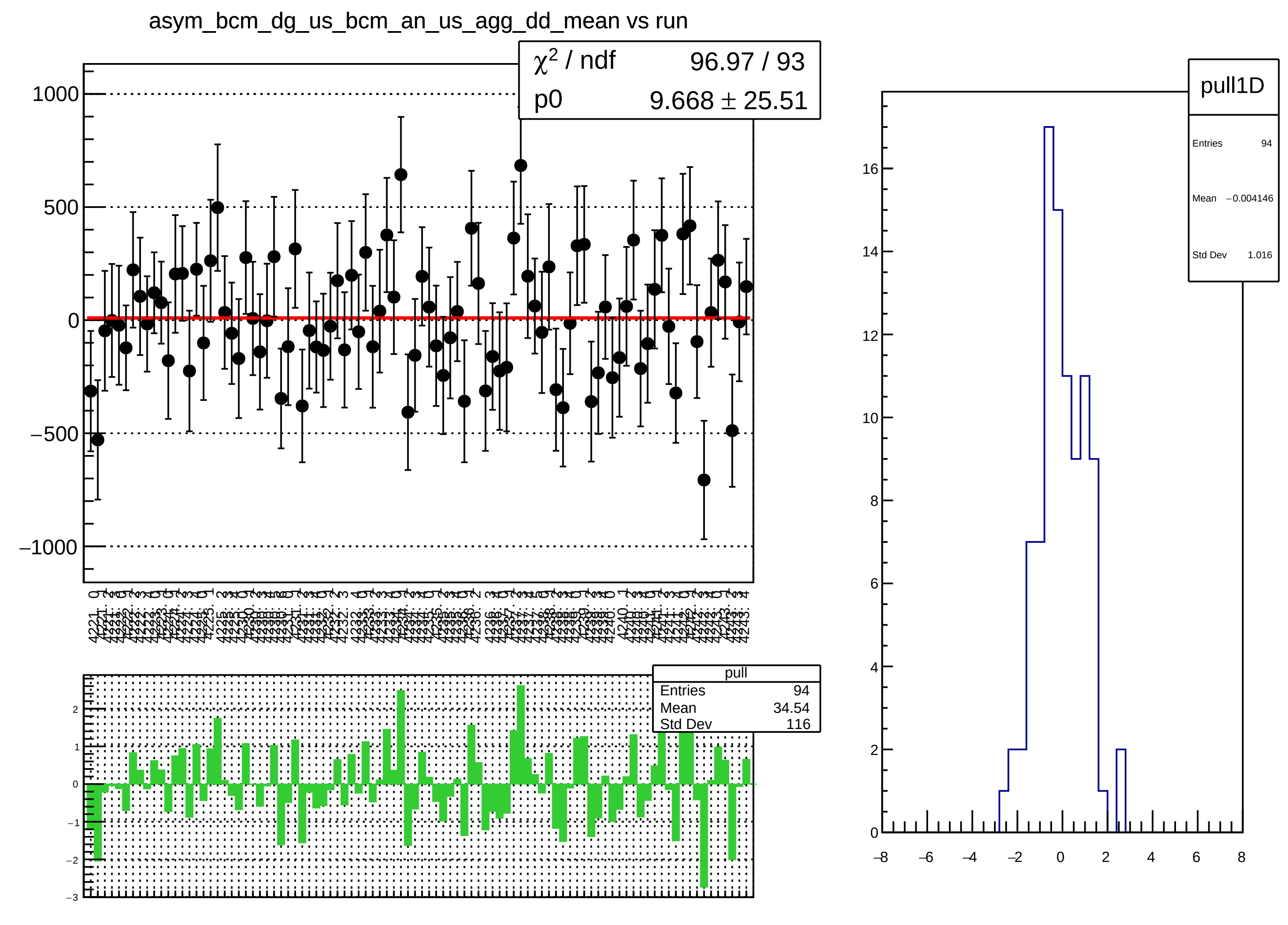
asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ2 / ndf 2.418e+04 / 93
p0 16.11 ± 0.01187
24
22
20
18
16
14



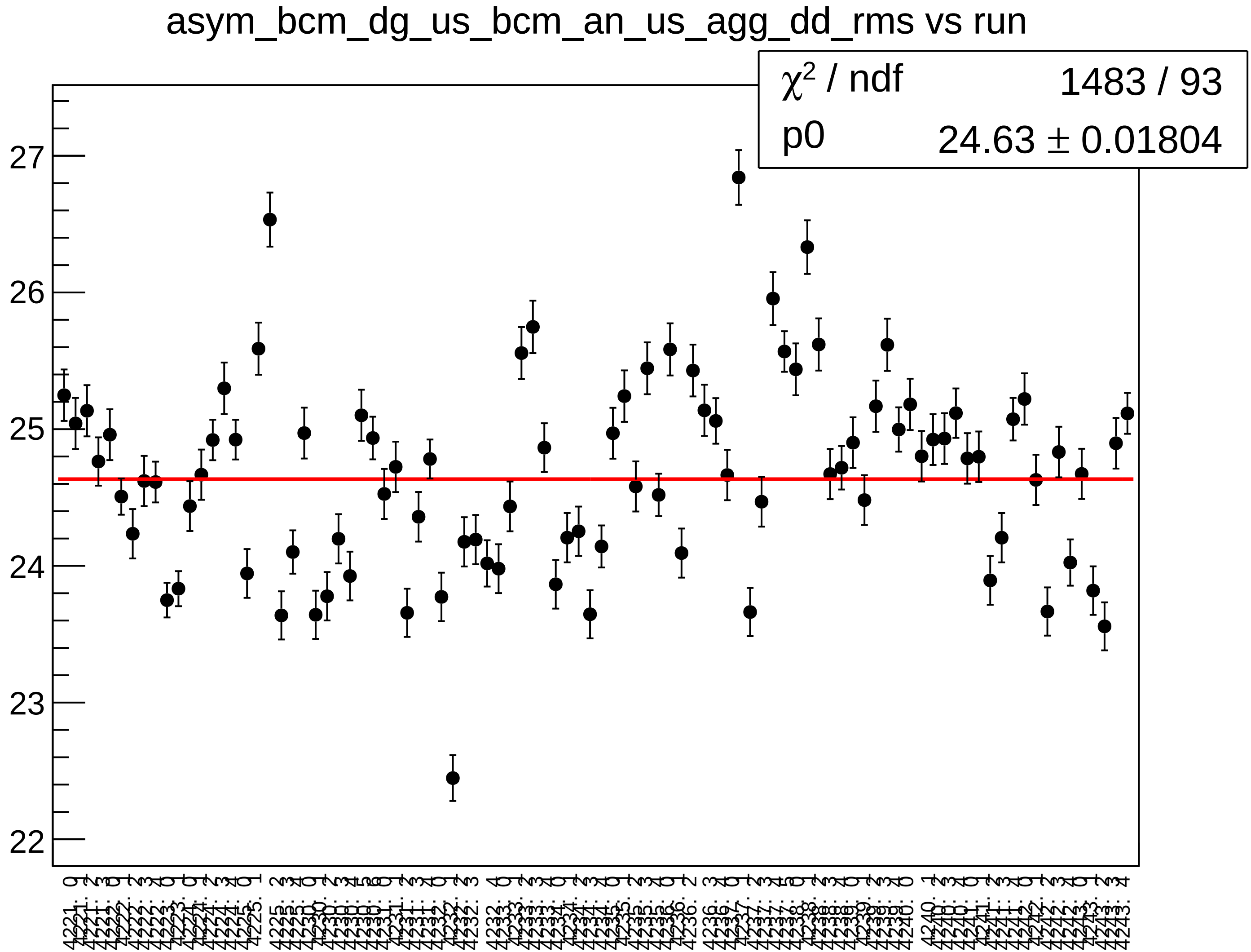
asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ2 / ndf 12.44 / 93
p0 42.91 ± 150.6
pull
Entries 94
Mean −101
Std Dev 134
pull1D
Entries 94
Mean −0.003628
Std Dev 0.3638



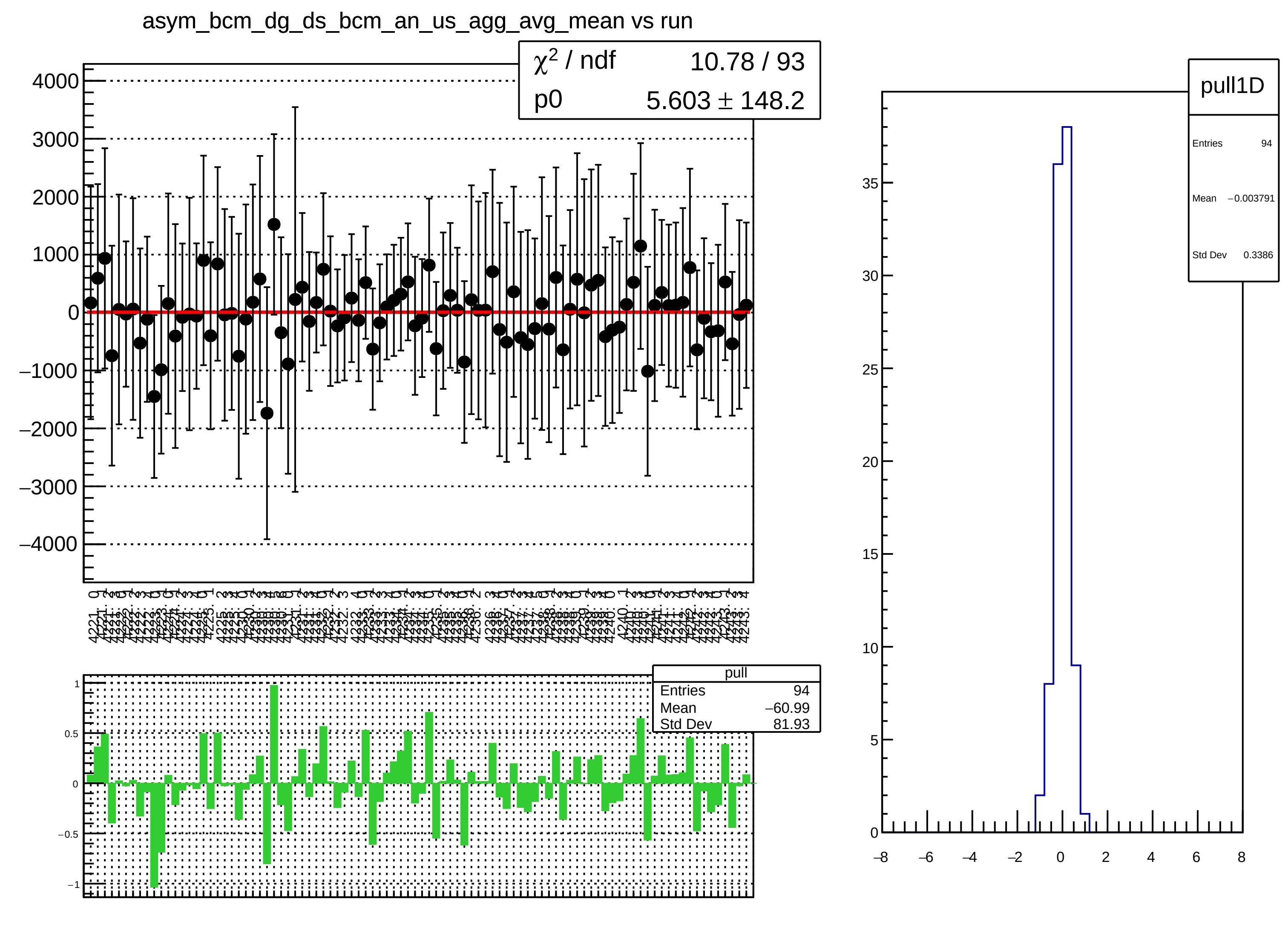
asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 1.185e+05 / 93
p0 140.8 ± 0.1065
300
250
200
150
100



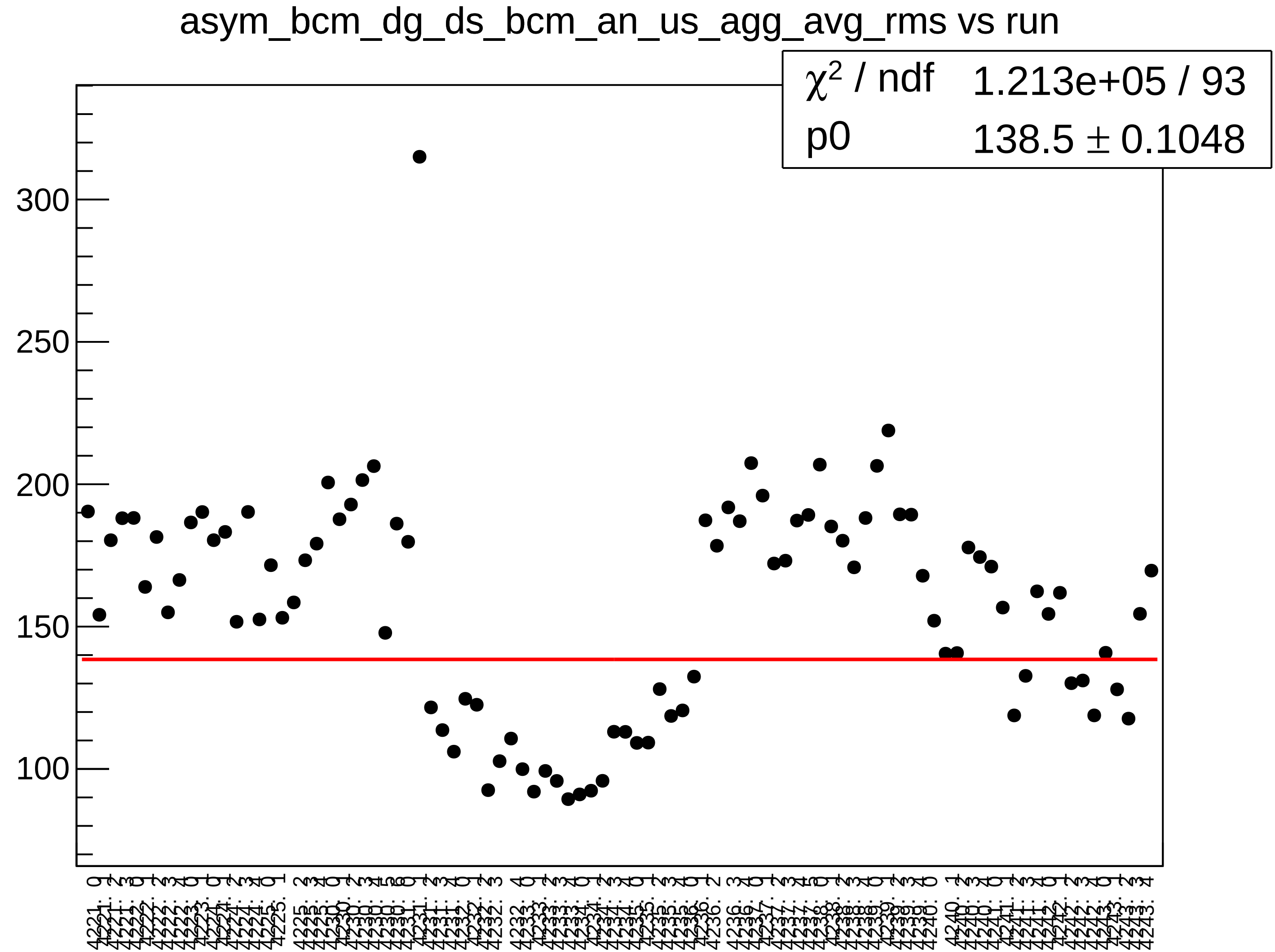
asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ2 / ndf 96.97 / 93
p0 9.668 ± 25.51
1000
500
0
−500
−1000
pull
Entries 94
Mean 34.54
Std Dev 116
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.004146
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



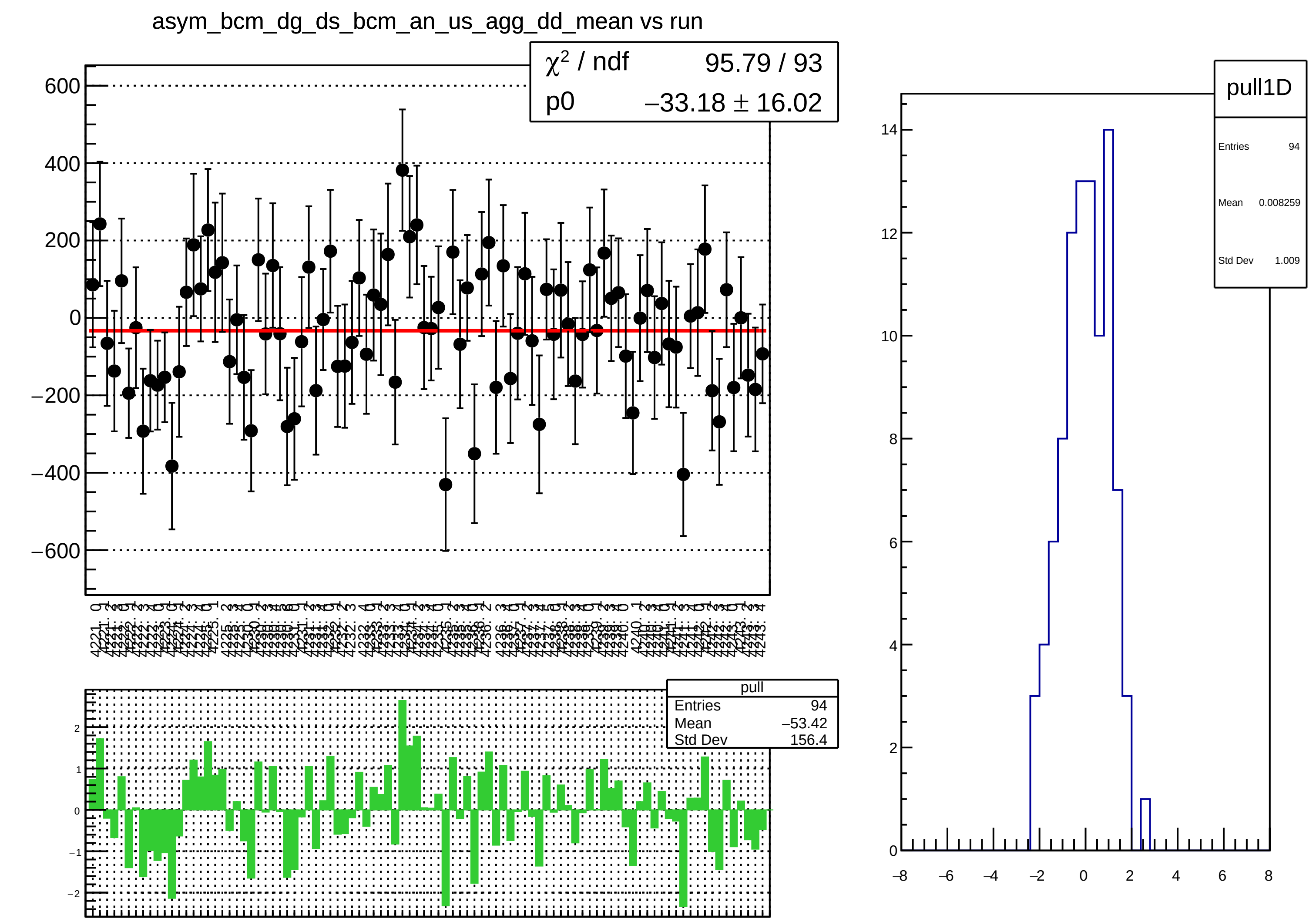
asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ2 / ndf 1483 / 93
p0 24.63 ± 0.01804
27
26
25
24
23
22



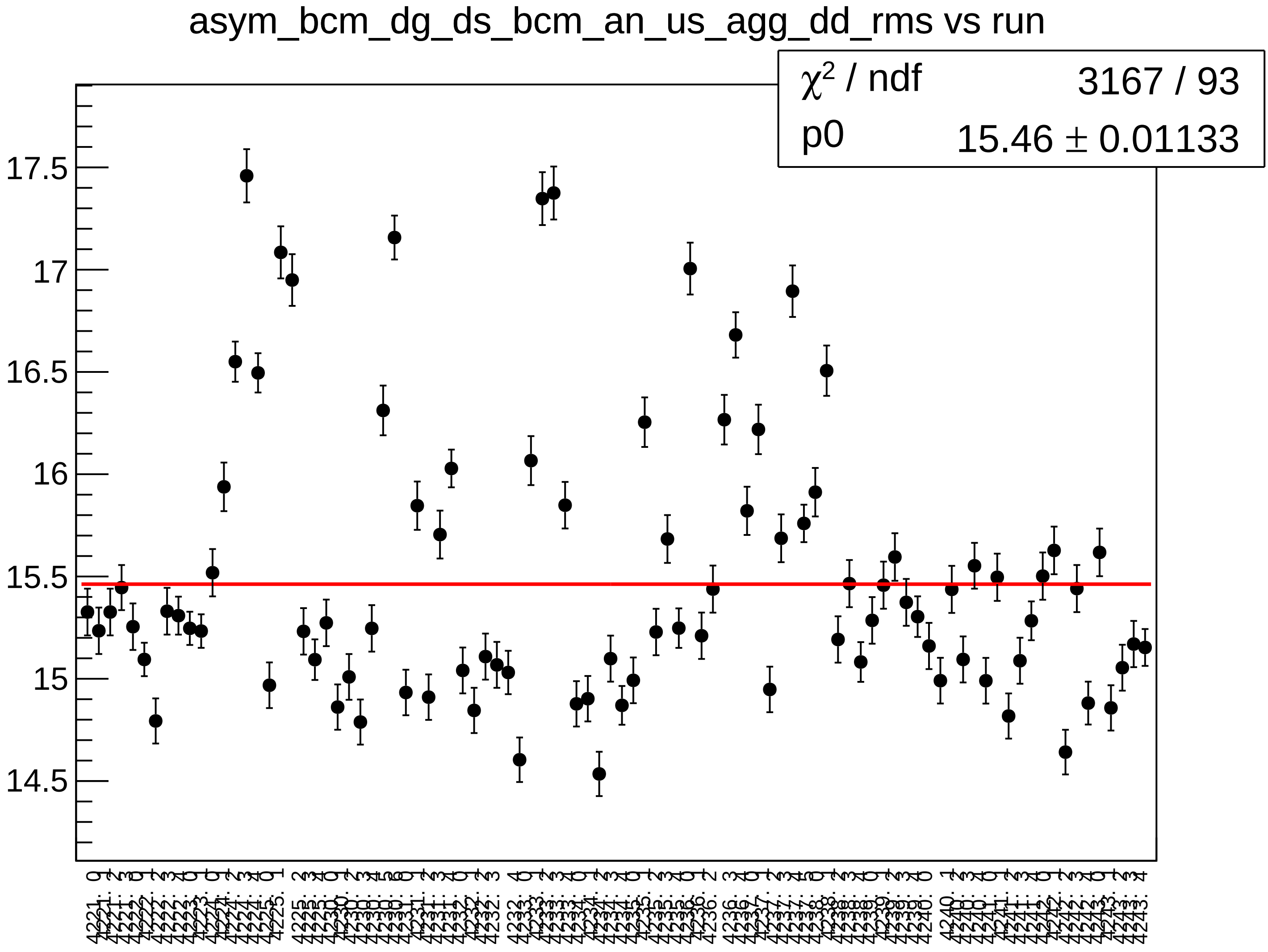
asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ^2 / ndf 10.78 / 93
p0 5.603 ± 148.2
pull
Entries 94
Mean −60.99
Std Dev 81.93
pull1D
Entries 94
Mean −0.003791
Std Dev 0.3386



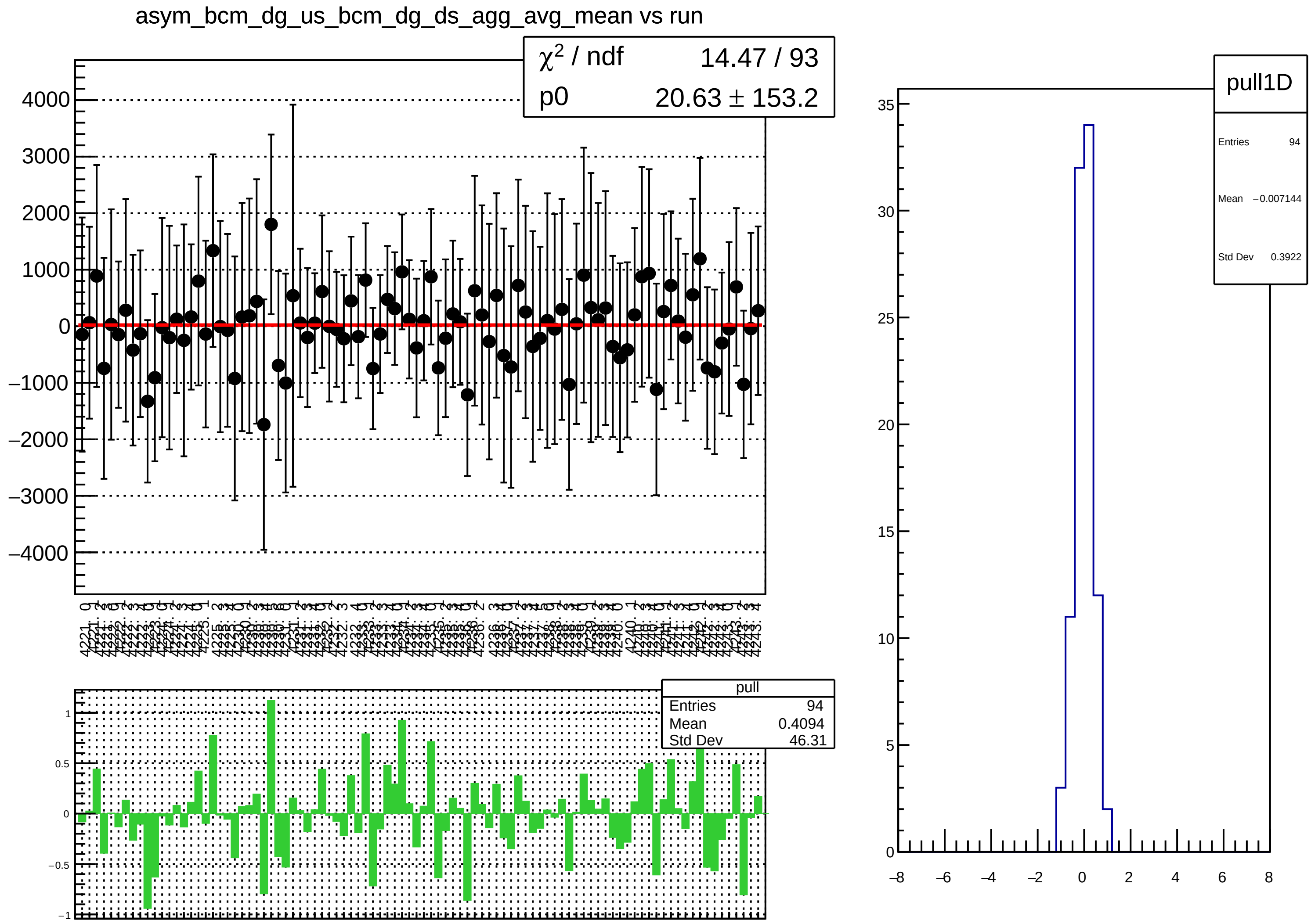
asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 1.213e+05 / 93
p0 138.5 ± 0.1048
300
250
200
150
100



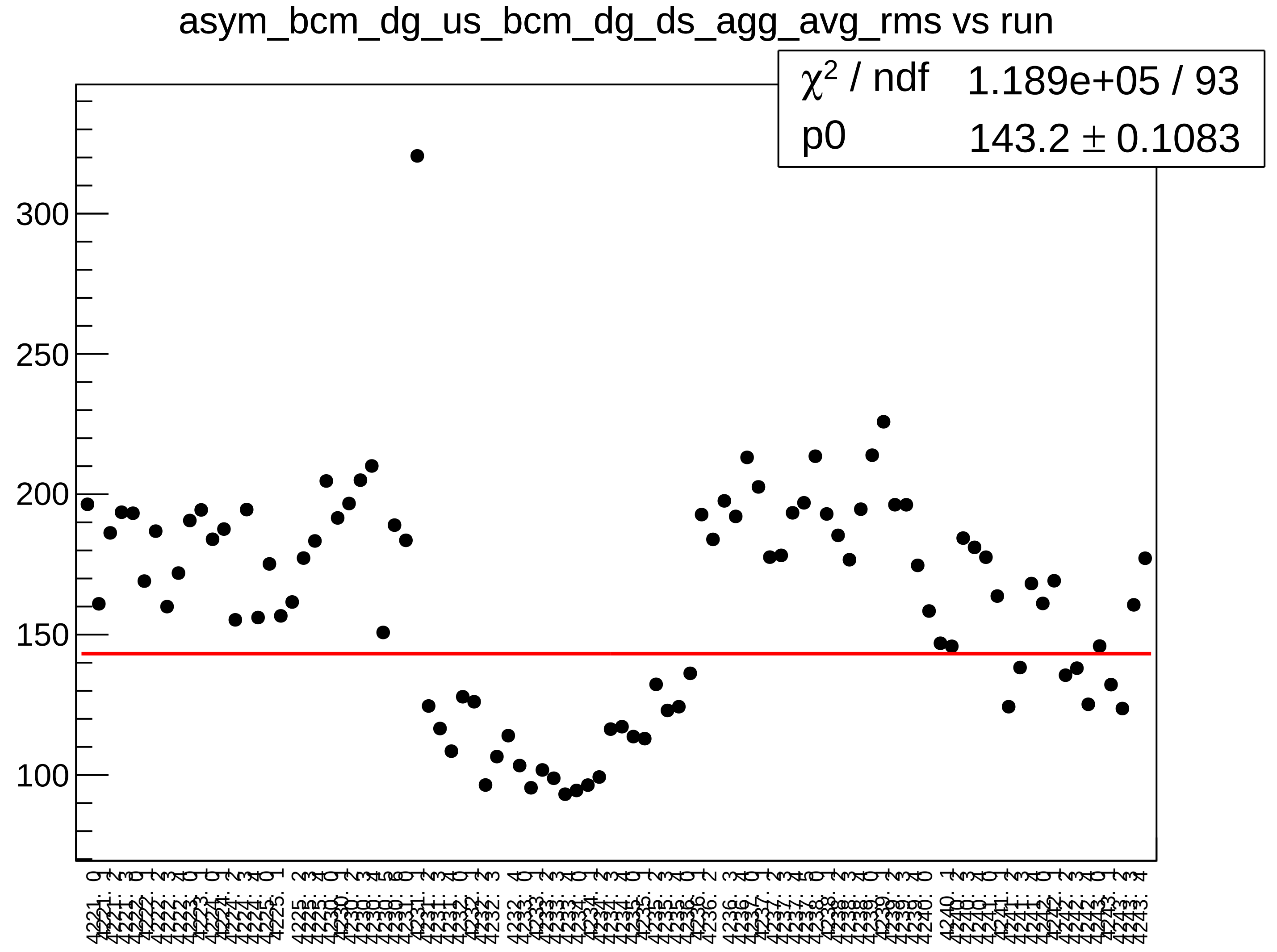
asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ^2 / ndf 95.79 / 93
p0 −33.18 ± 16.02
pull
Entries 94
Mean −53.42
Std Dev 156.4
pull1D
Entries 94
Mean 0.008259
Std Dev 1.009



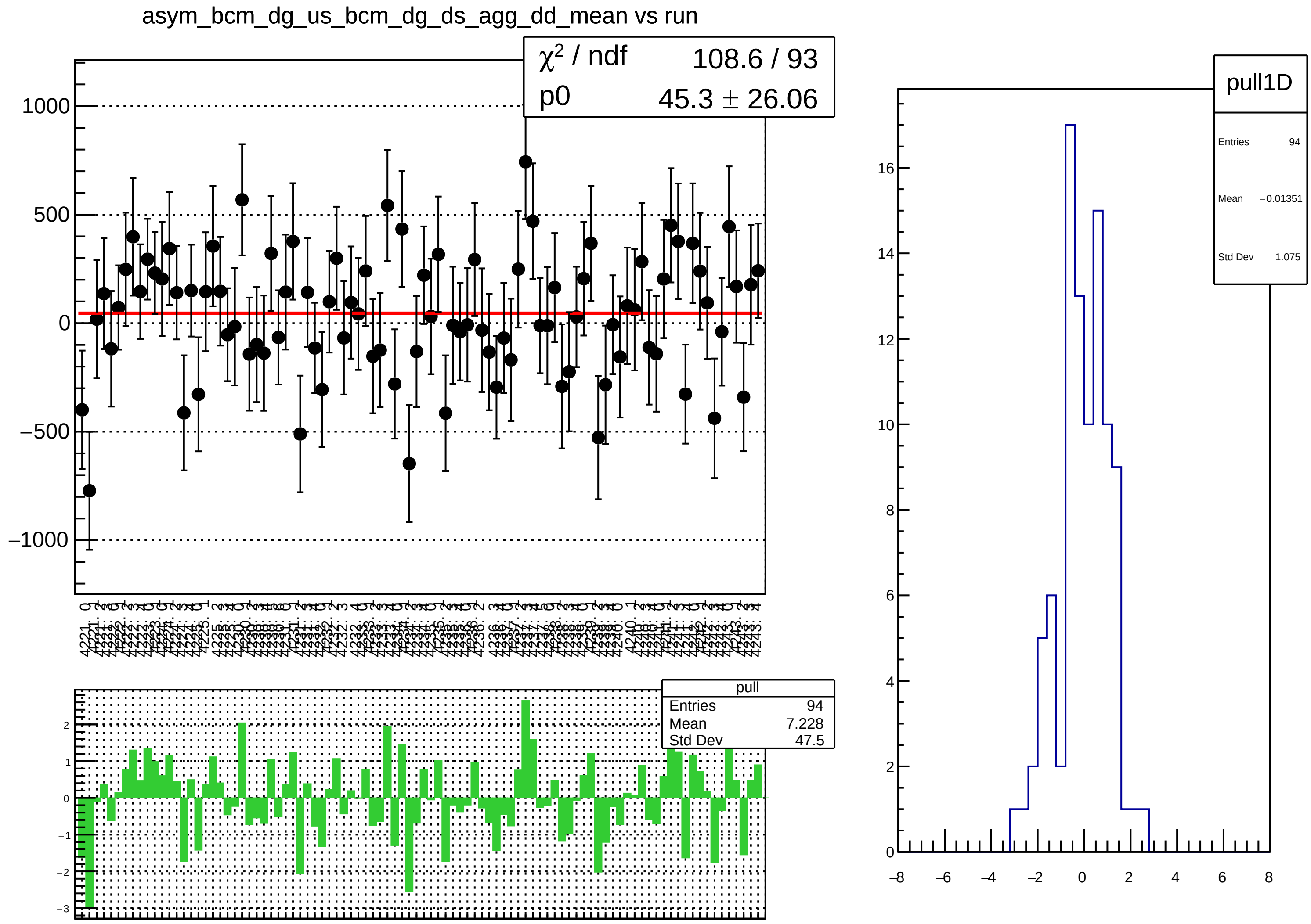
asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ^2 / ndf 3167 / 93
p0 15.46 ± 0.01133
17.5
17
16.5
16
15.5
15
14.5



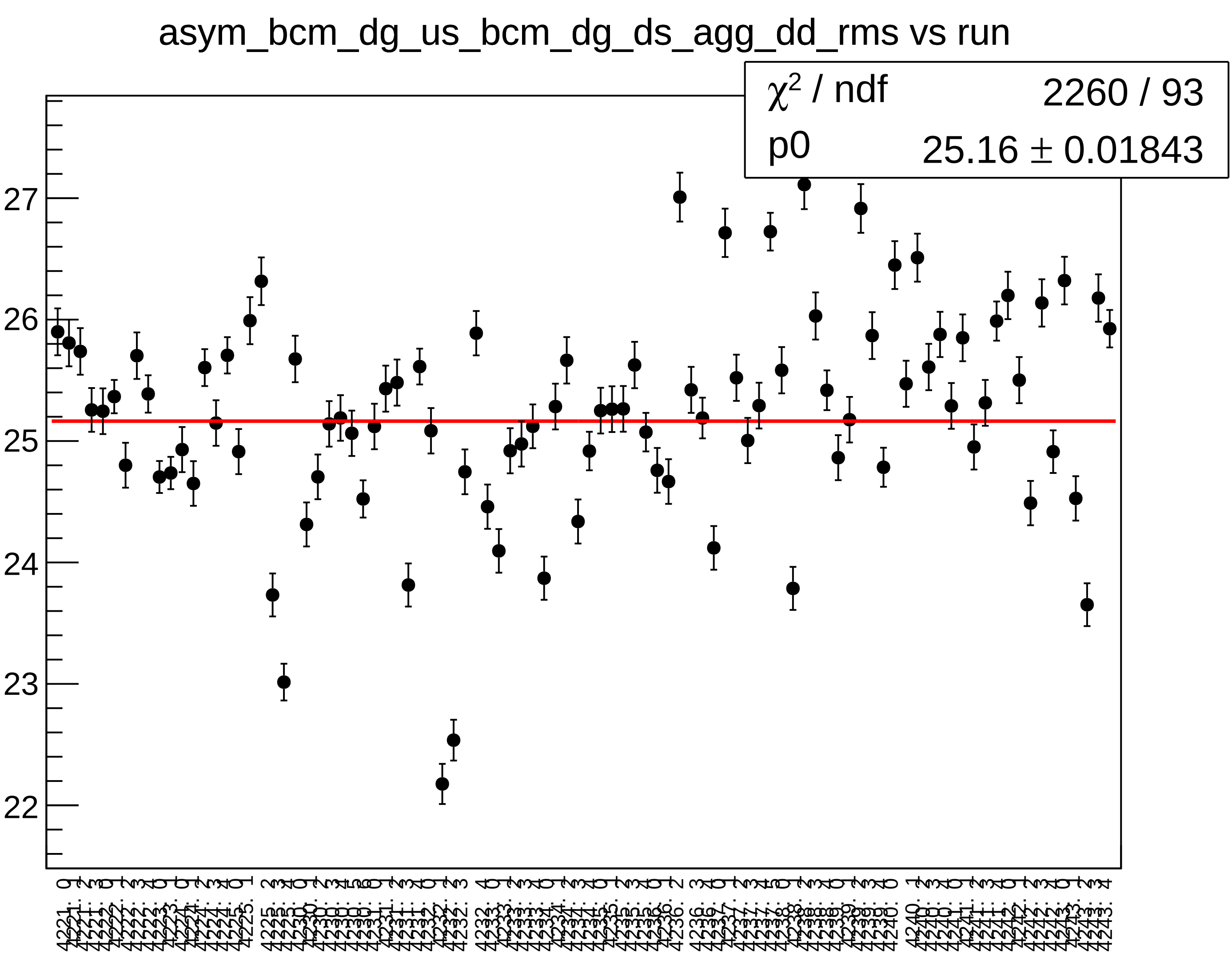
asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ2 / ndf 14.47 / 93
p0 20.63 ± 153.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean 0.4094
Std Dev 46.31
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.007144
Std Dev 0.3922
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



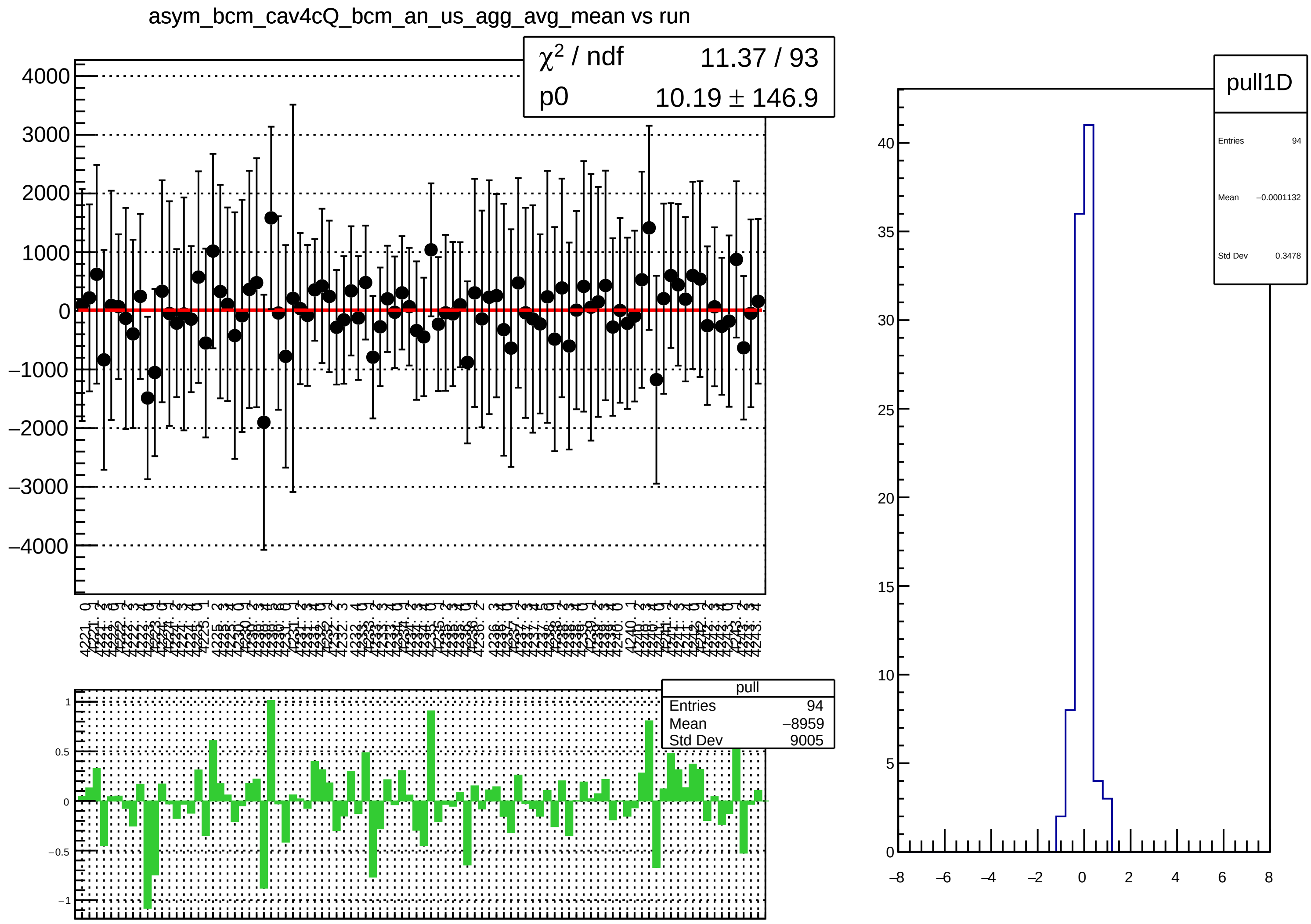
asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ^2 / ndf 1.189e+05 / 93
p0 143.2 ± 0.1083
300
250
200
150
100



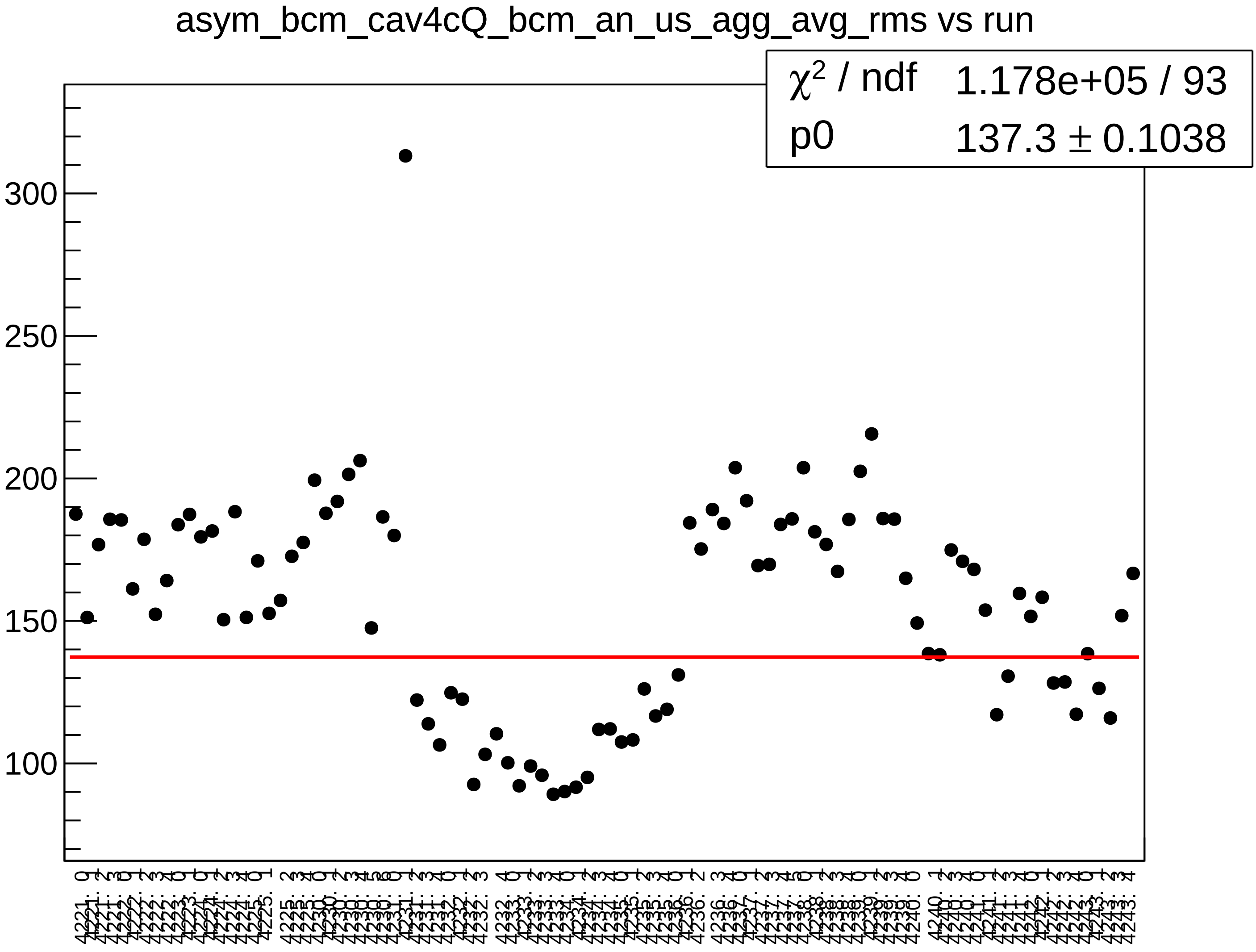
asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ2 / ndf 108.6 / 93
p0 45.3 ± 26.06
pull
Entries 94
Mean 7.228
Std Dev 47.5
pull1D
Entries 94
Mean −0.01351
Std Dev 1.075



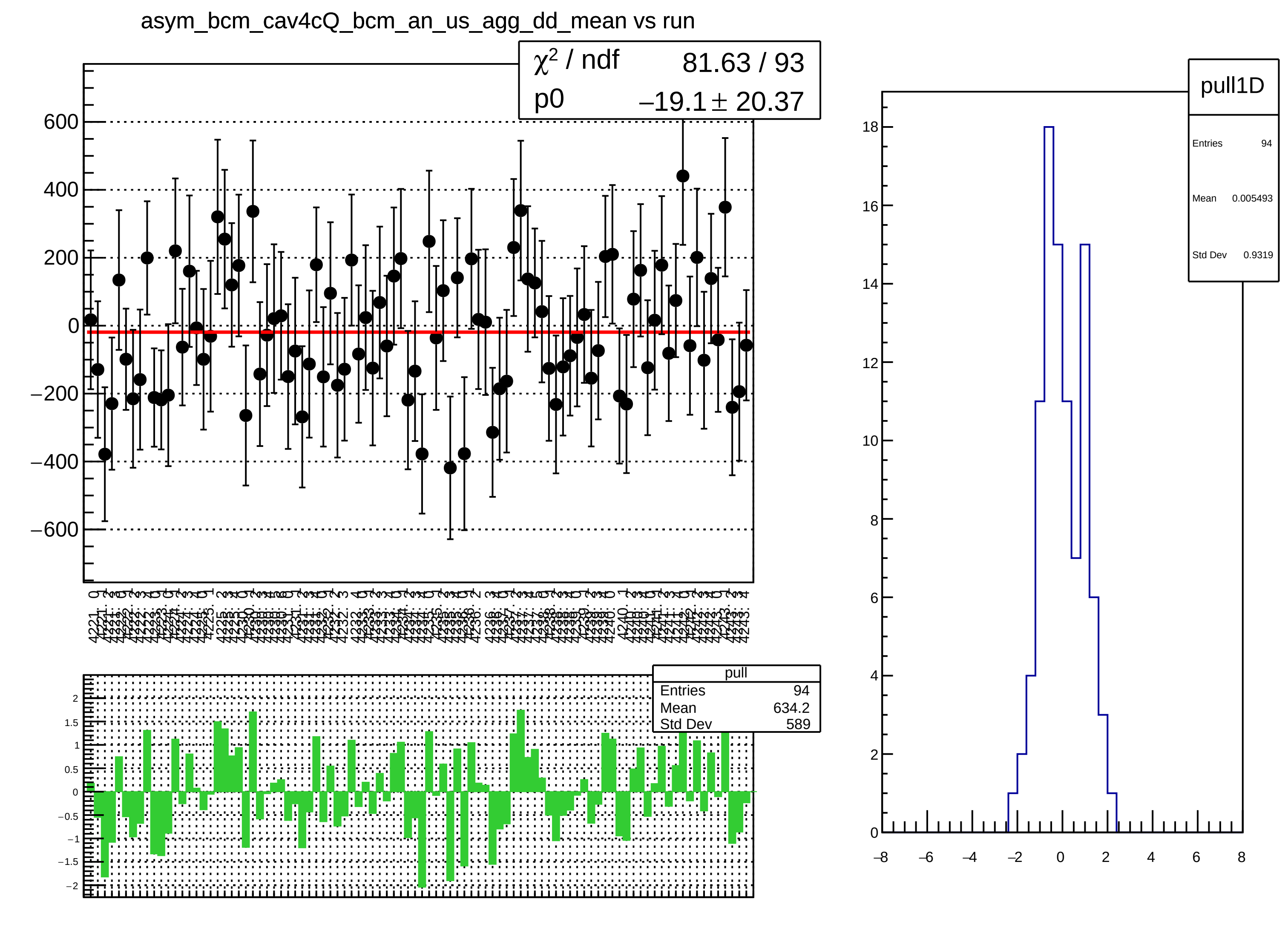
asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ^2 / ndf 2260 / 93
p0 25.16 ± 0.01843



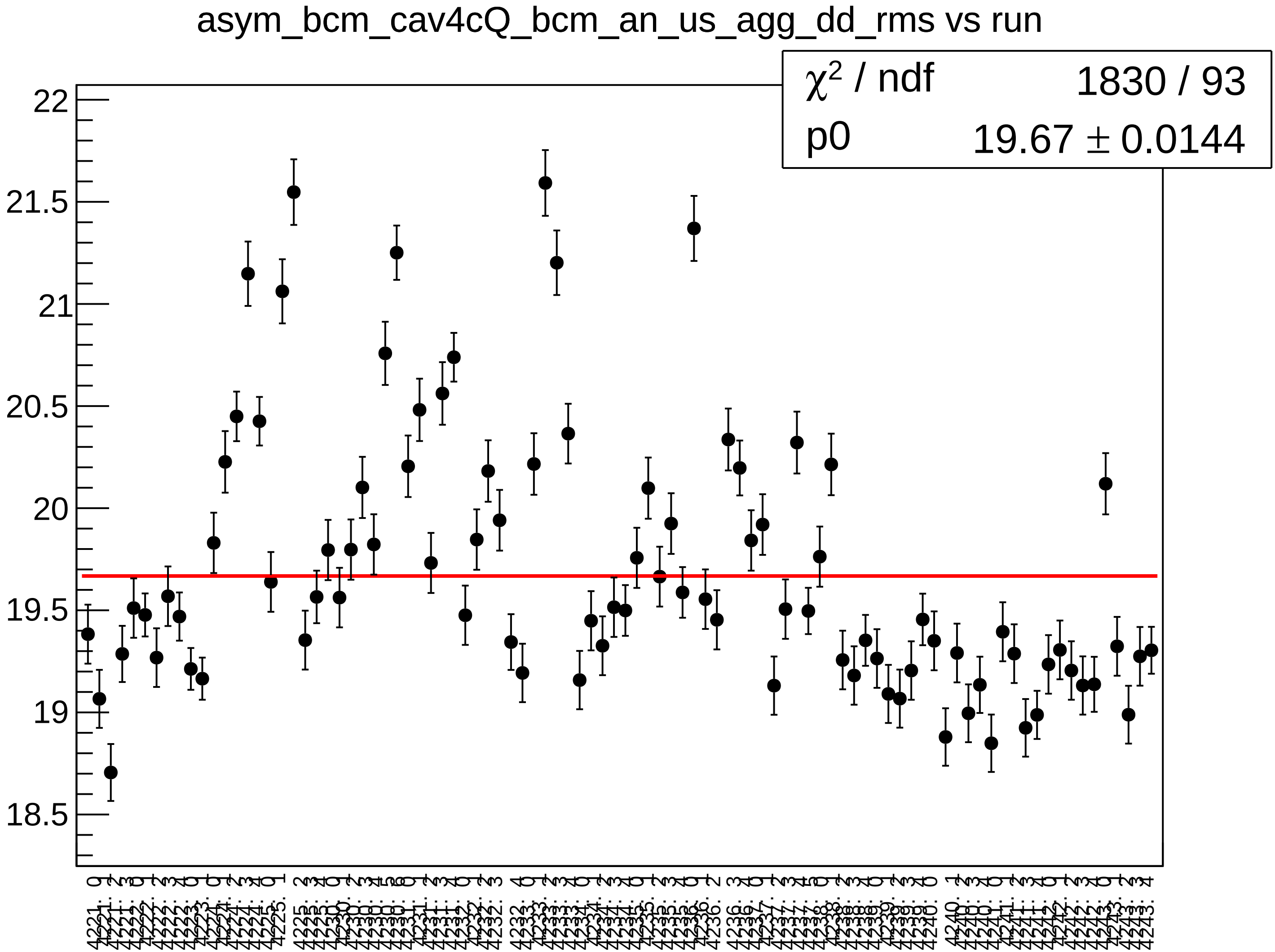
asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ2 / ndf 11.37 / 93
p0 10.19 ± 146.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean −8959
Std Dev 9005
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.0001132
Std Dev 0.3478
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



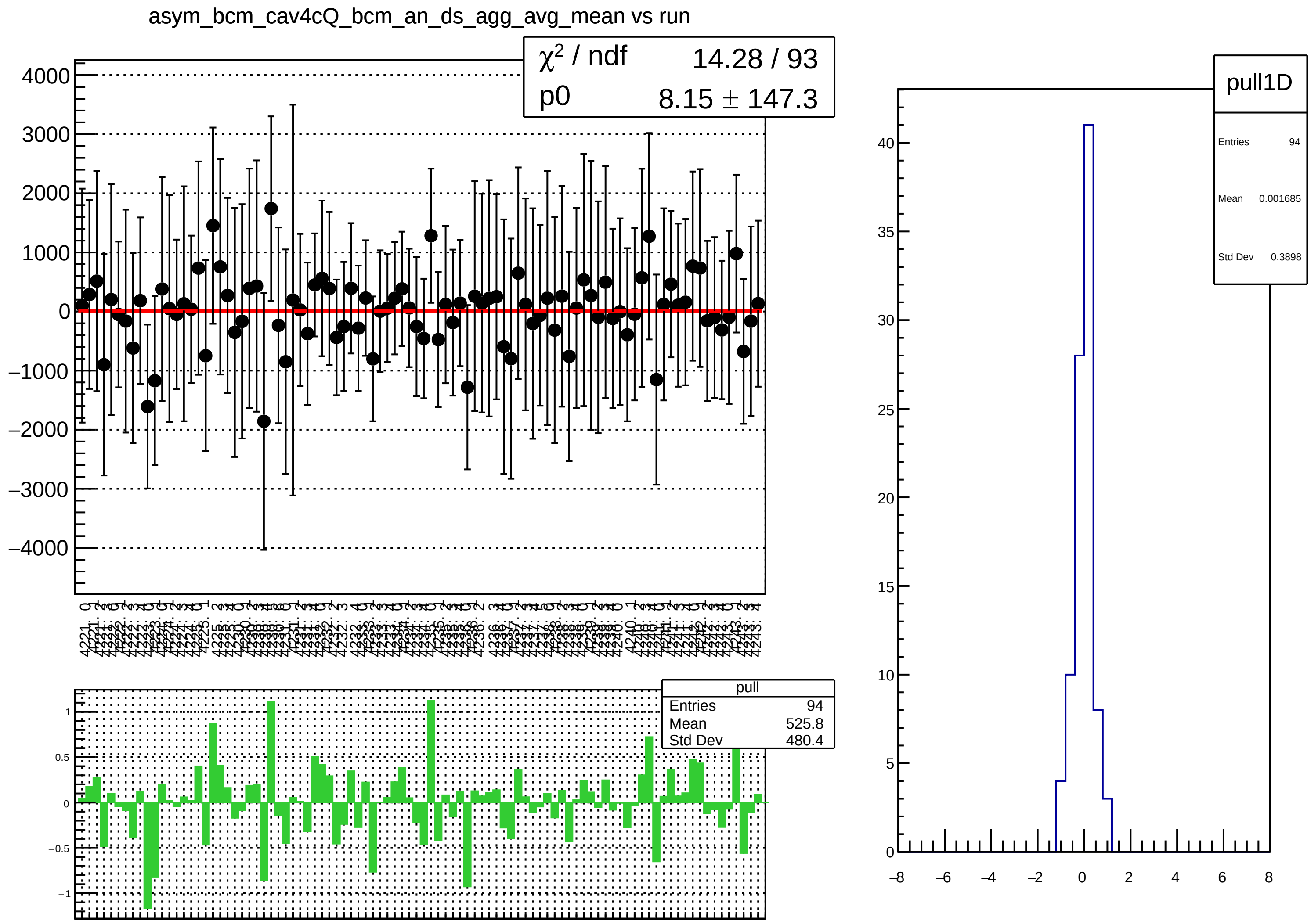
asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 1.178e+05 / 93
p0 137.3 ± 0.1038
300
250
200
150
100



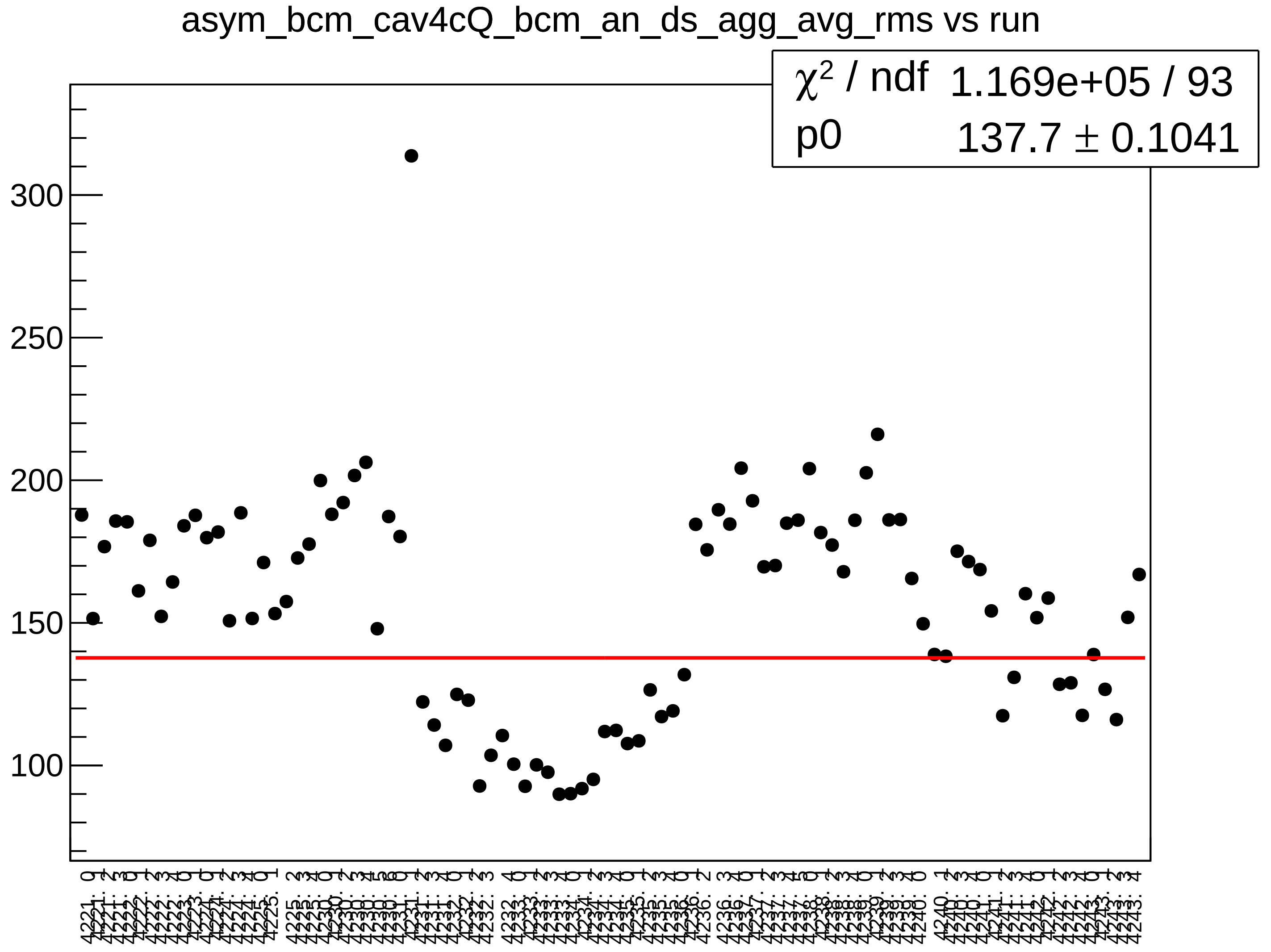
asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ^2 / ndf 81.63 / 93
p0 −19.1 ± 20.37
pull
Entries 94
Mean 634.2
Std Dev 589
pull1D
Entries 94
Mean 0.005493
Std Dev 0.9319



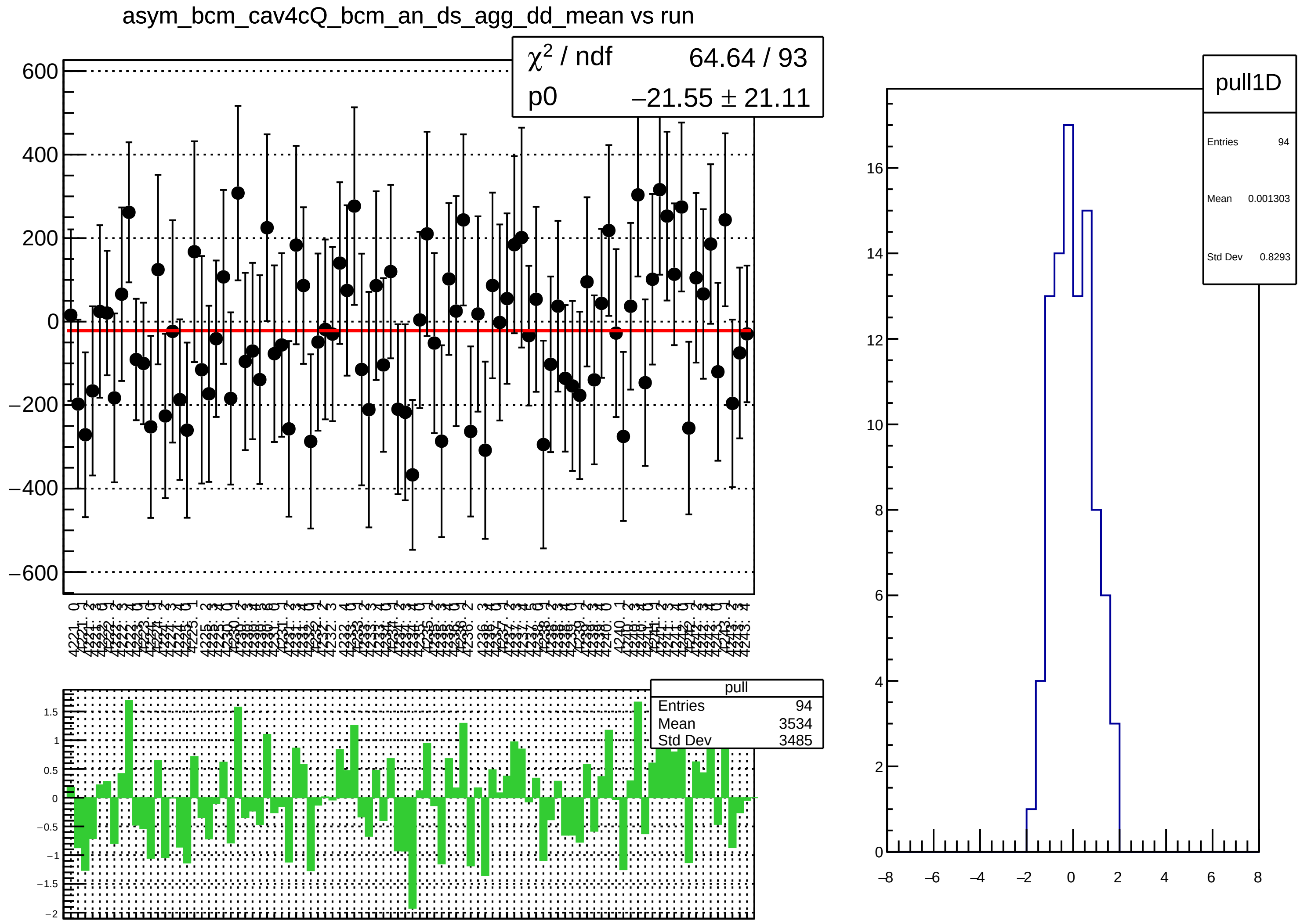
asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ^2 / ndf 1830 / 93
p0 19.67 ± 0.0144
22
21.5
21
20.5
20
19.5
19
18.5



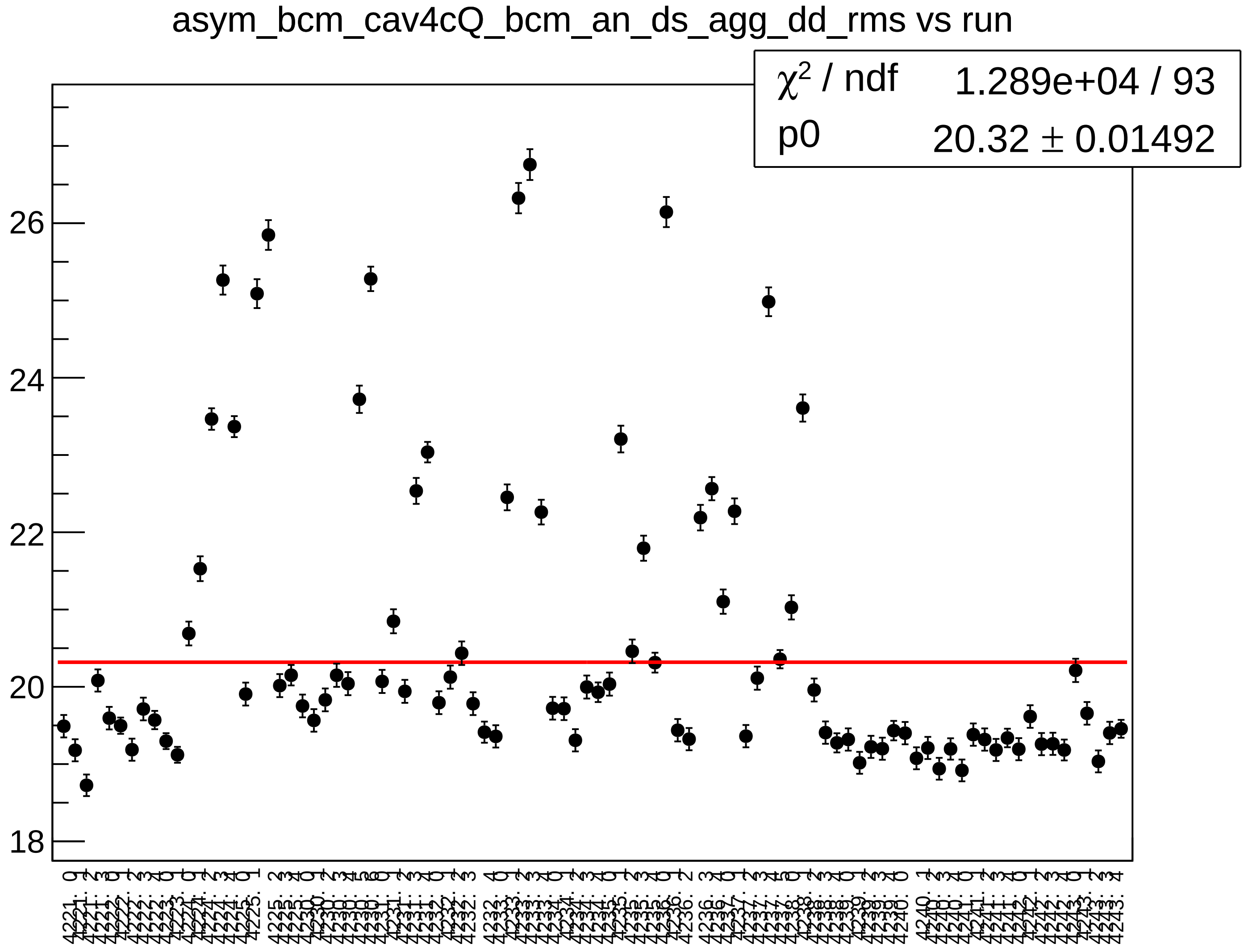
asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ2 / ndf 14.28 / 93
p0 8.15 ± 147.3
pull
Entries 94
Mean 525.8
Std Dev 480.4
pull1D
Entries 94
Mean 0.001685
Std Dev 0.3898



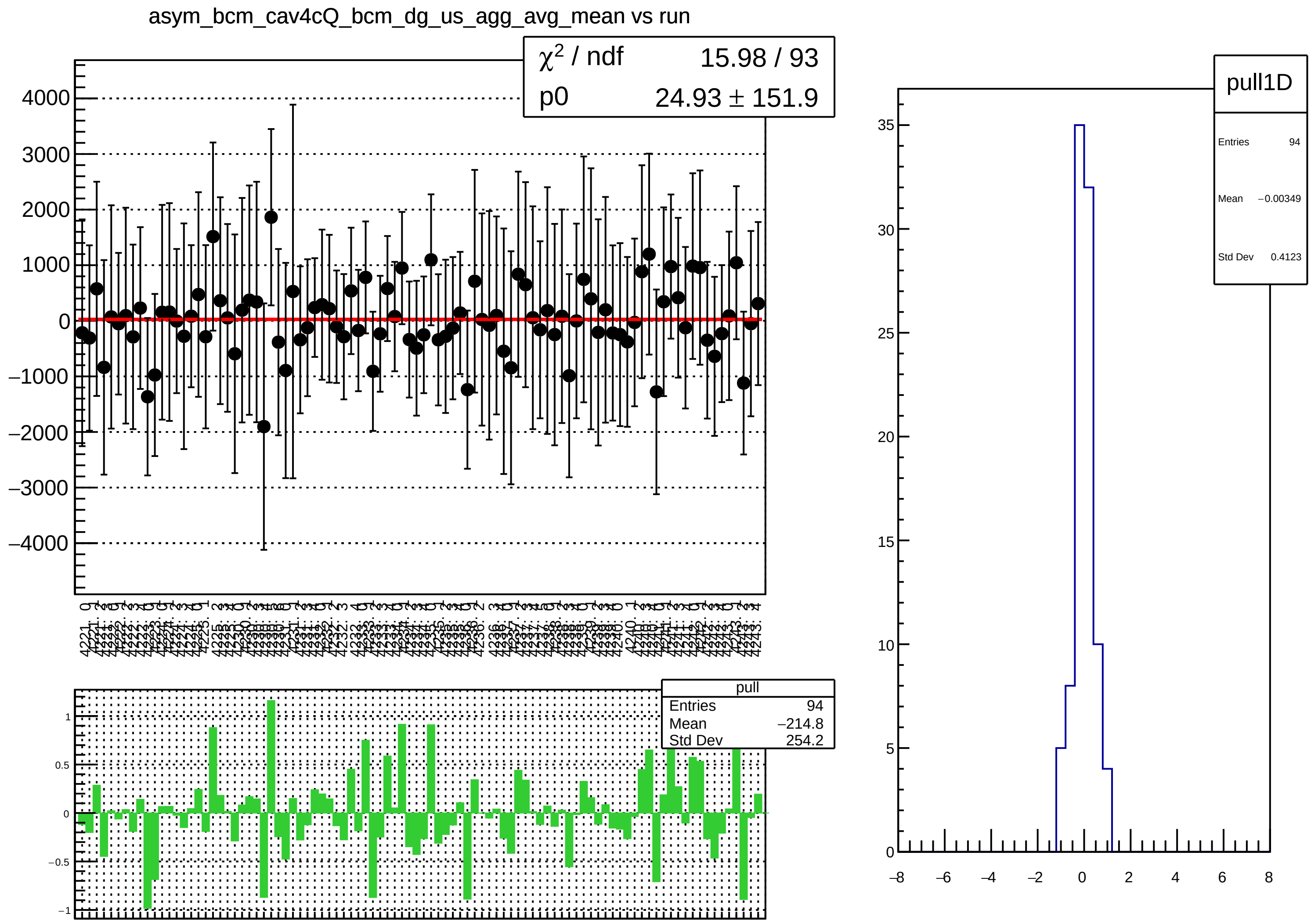
asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ2 / ndf 1.169e+05 / 93
p0 137.7 ± 0.1041
300
250
200
150
100



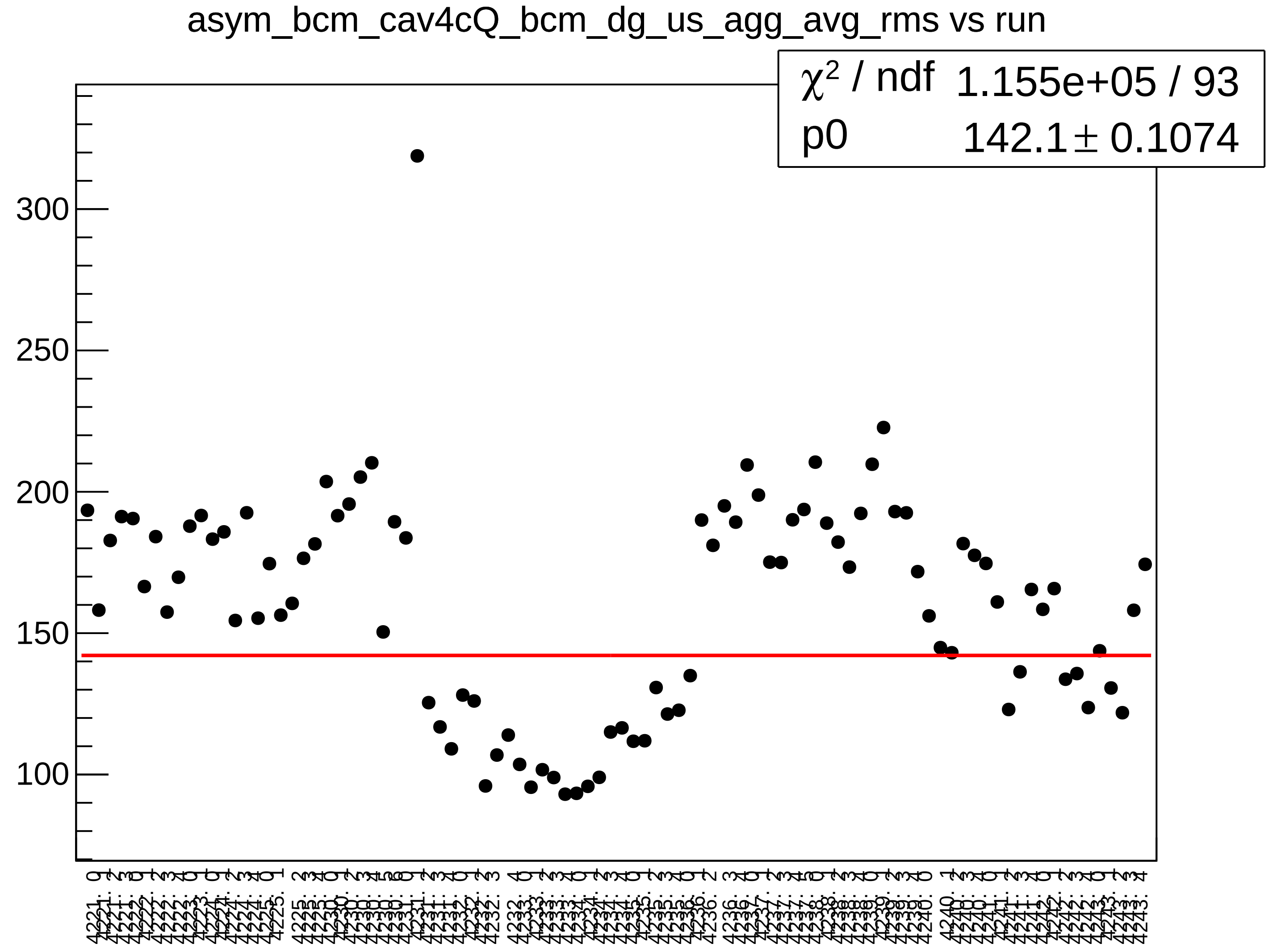
asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ^2 / ndf 64.64 / 93
p0 −21.55 ± 21.11
pull
Entries 94
Mean 3534
Std Dev 3485
pull1D
Entries 94
Mean 0.001303
Std Dev 0.8293



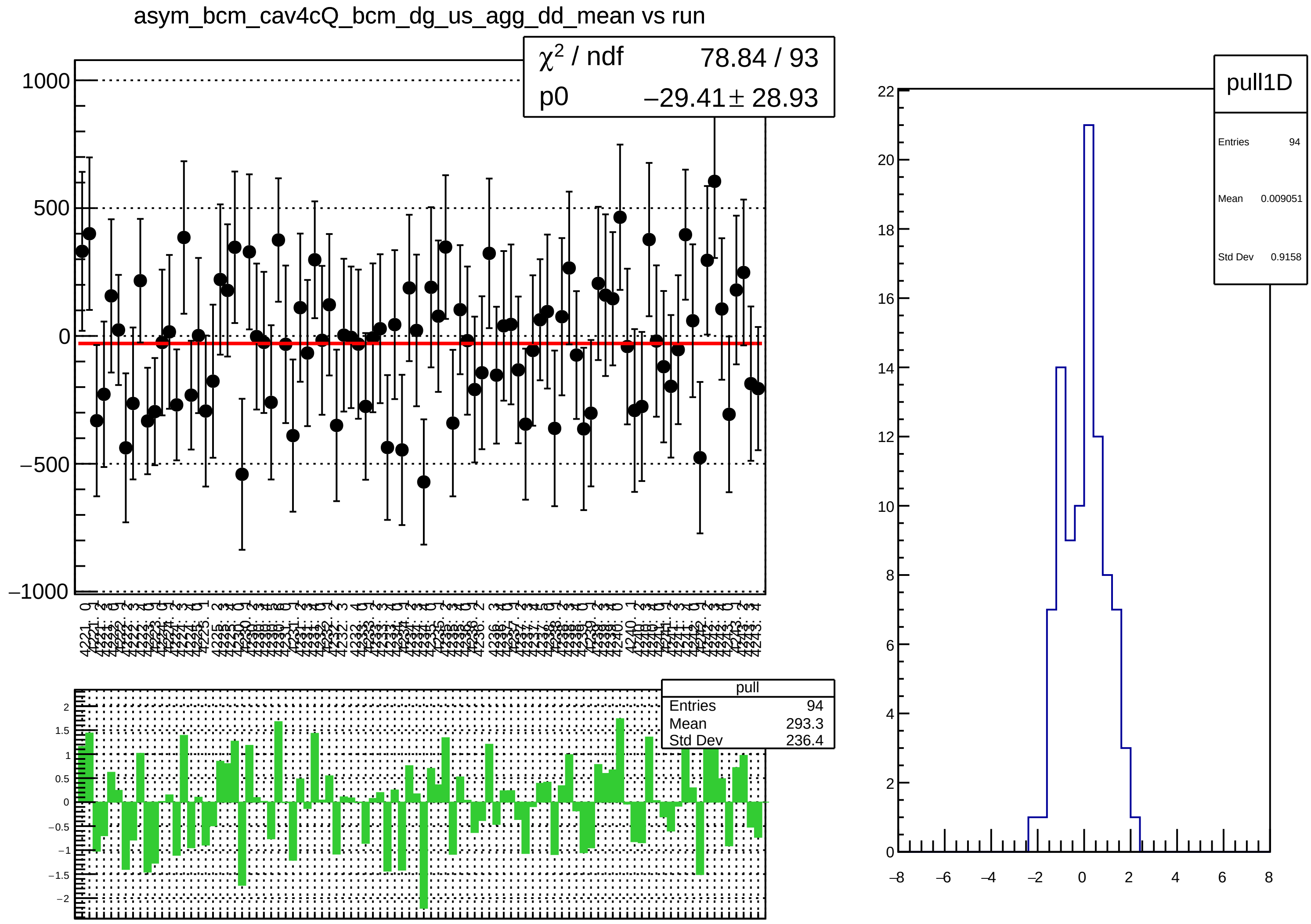
asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 1.289e+04 / 93
p0 20.32 ± 0.01492
26
24
22
20
18

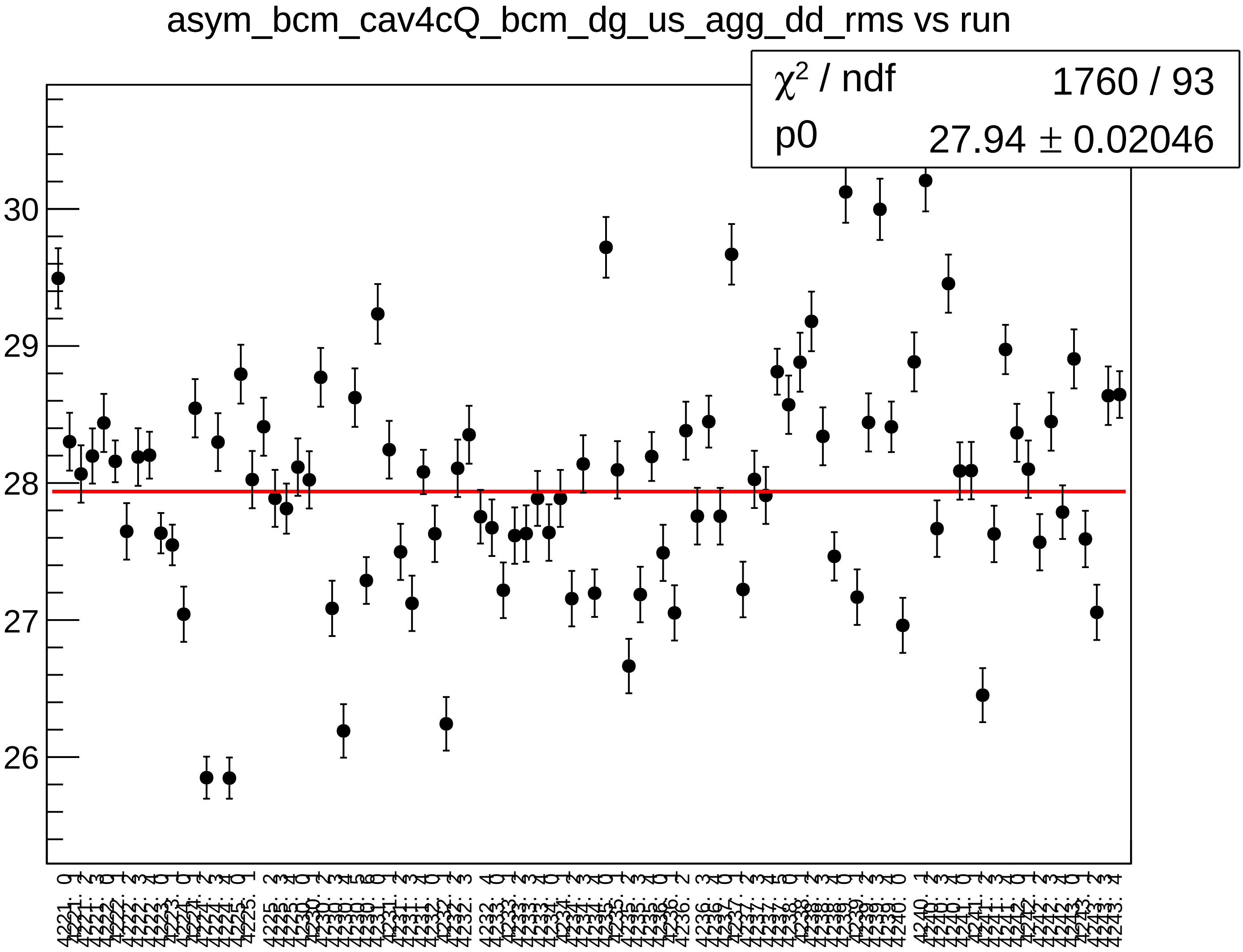


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ2 / ndf 15.98 / 93
p0 24.93 ± 151.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean −214.8
Std Dev 254.2
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.00349
Std Dev 0.4123
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

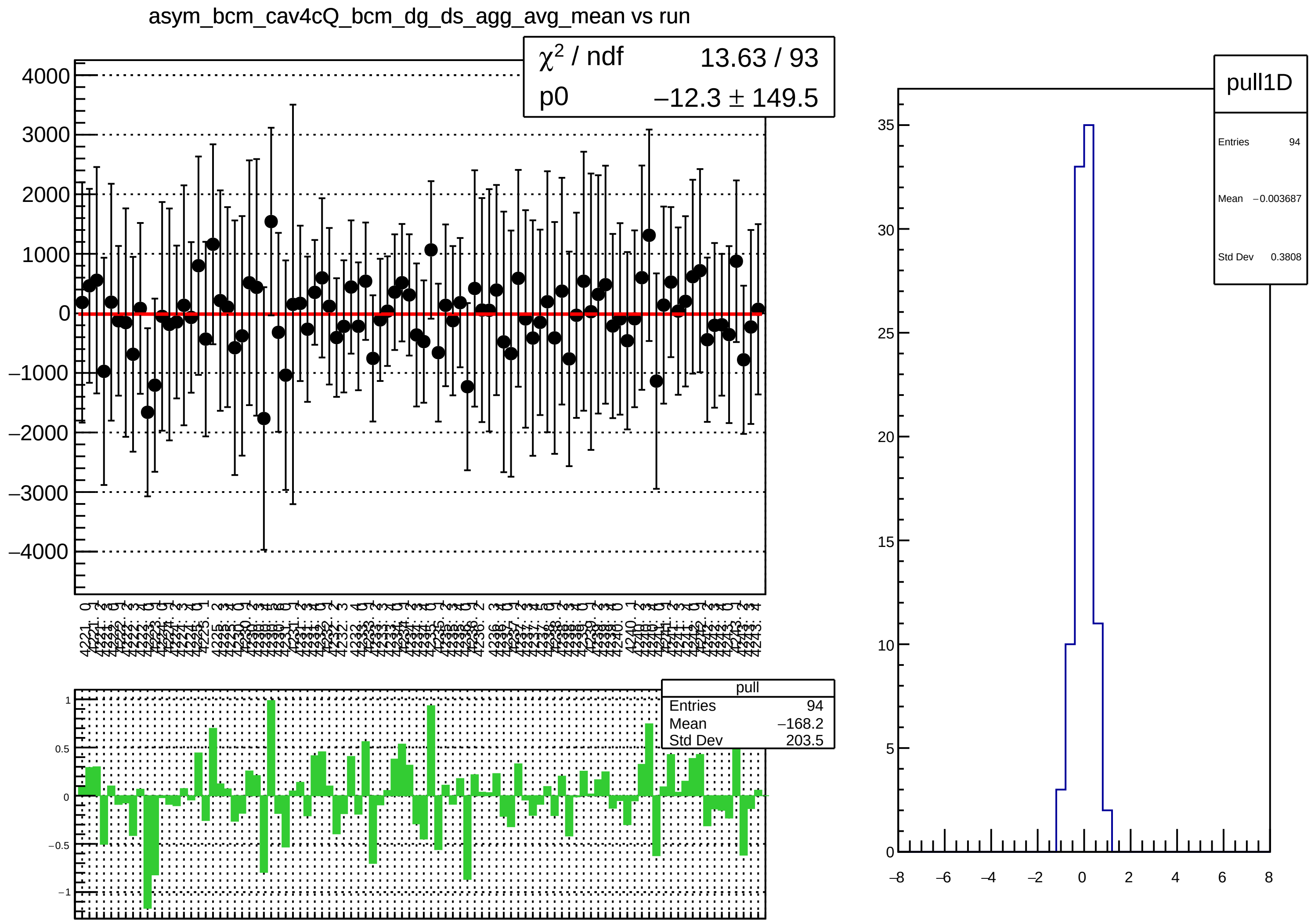


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ2 / ndf 1.155e+05 / 93
p0 142.1 ± 0.1074
300
250
200
150
100

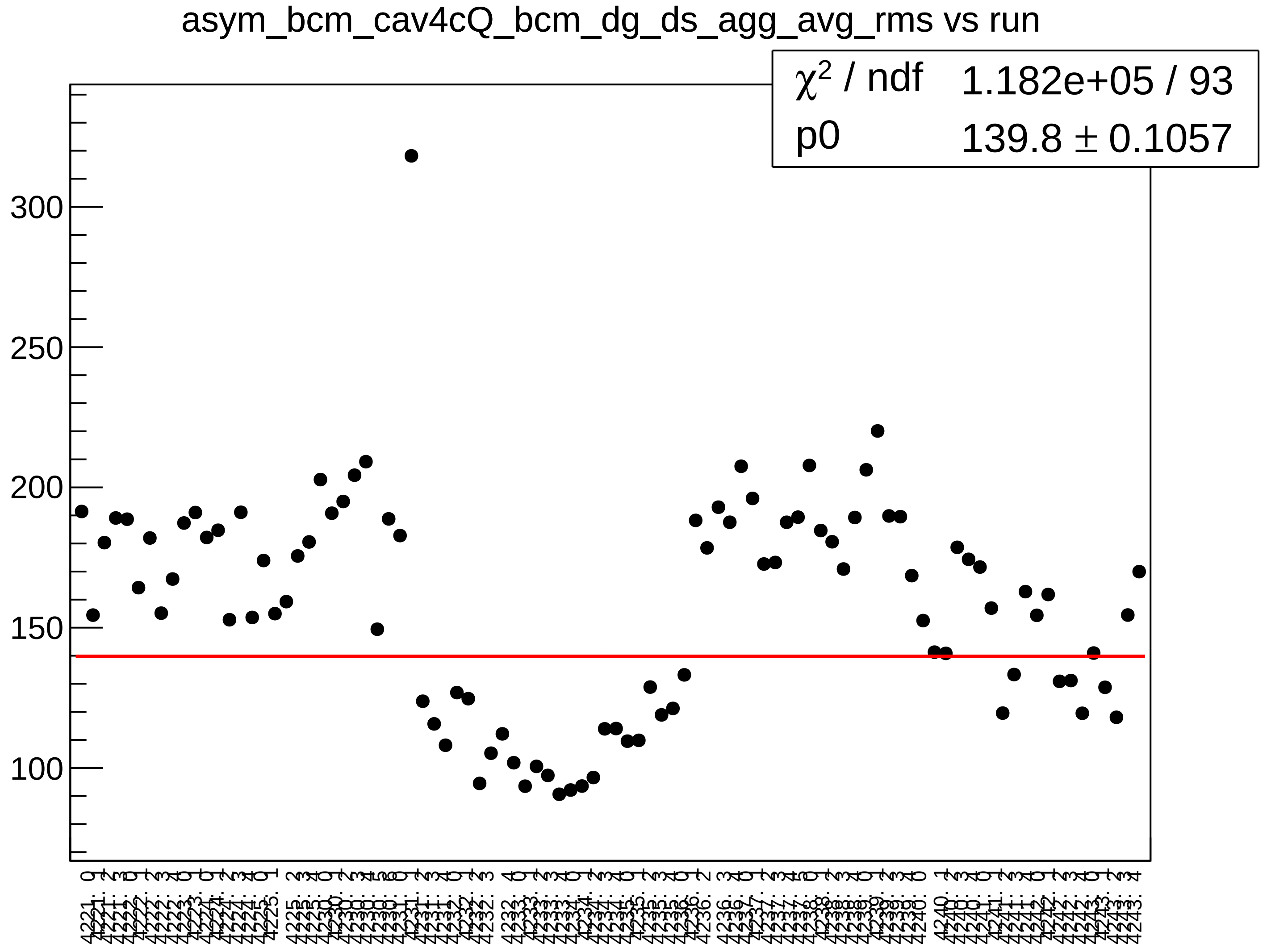

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ^2 / ndf 78.84 / 93
p0 −29.41 ± 28.93
1000
500
0
−500
−1000
pull
Entries 94
Mean 293.3
Std Dev 236.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.009051
Std Dev 0.9158
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



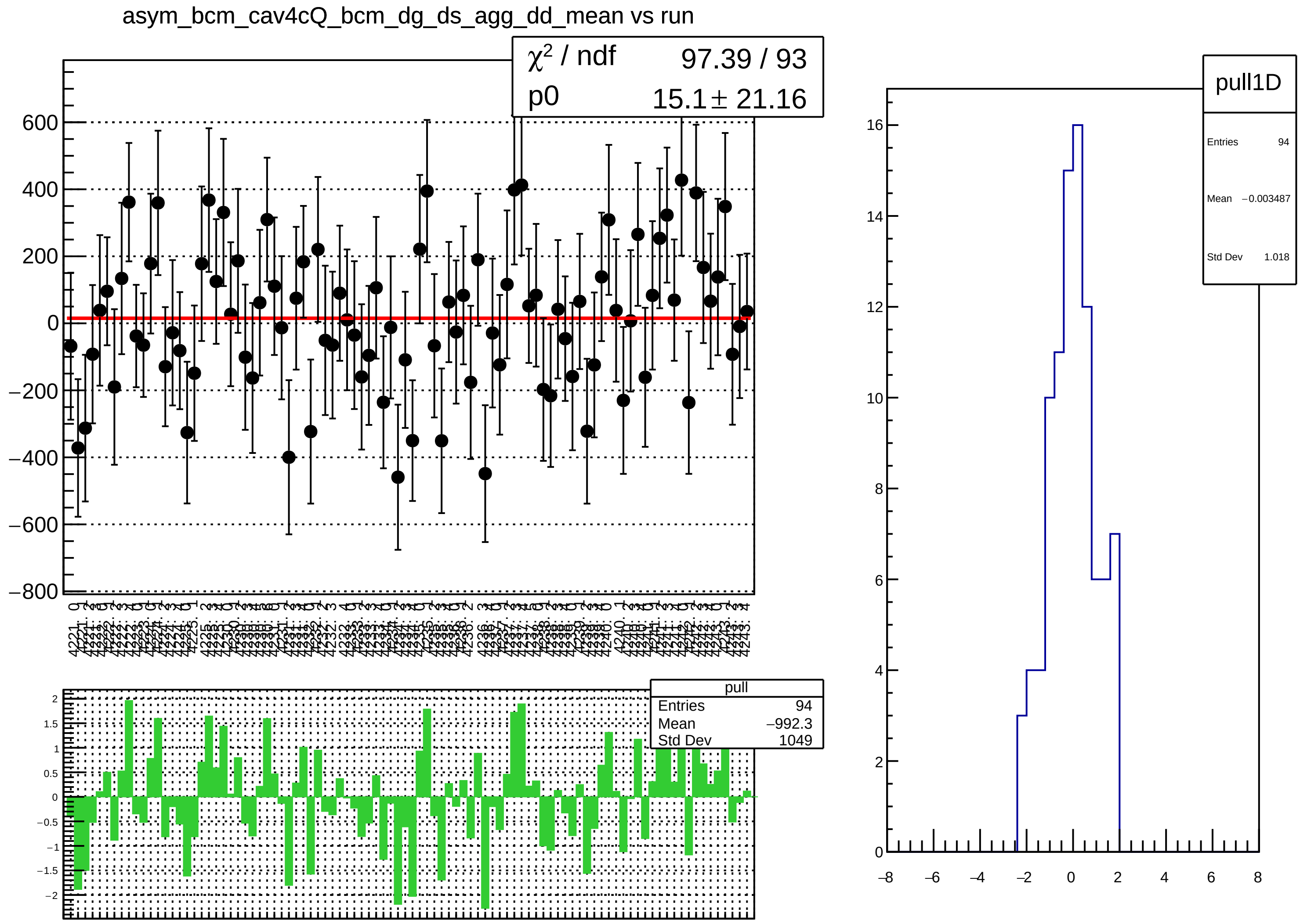
asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ^2 / ndf 1760 / 93
p0 27.94 ± 0.02046
30
29
28
27
26



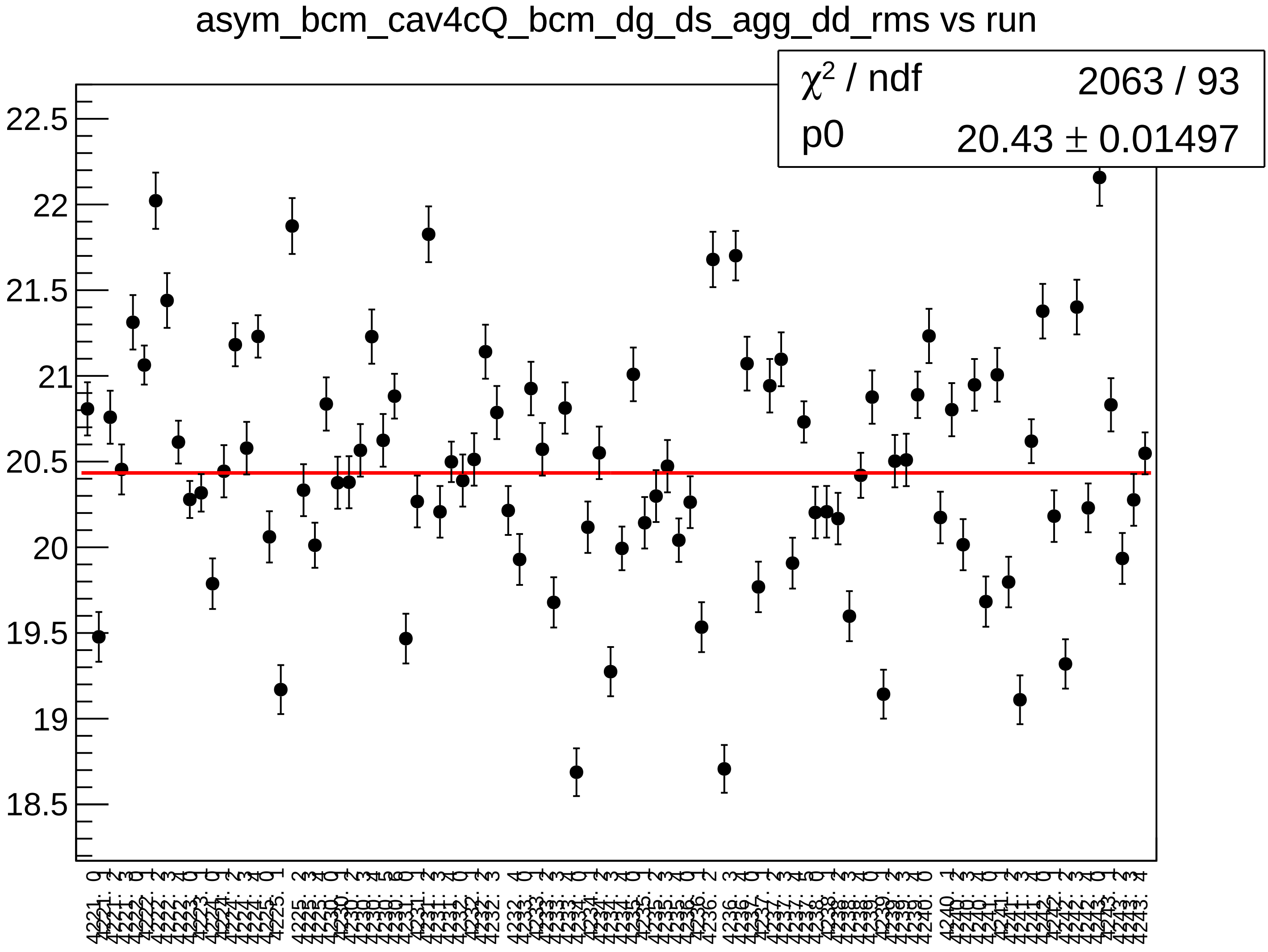
asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ^2 / ndf 13.63 / 93
p0 −12.3 ± 149.5
pull
Entries 94
Mean −168.2
Std Dev 203.5
pull1D
Entries 94
Mean −0.003687
Std Dev 0.3808

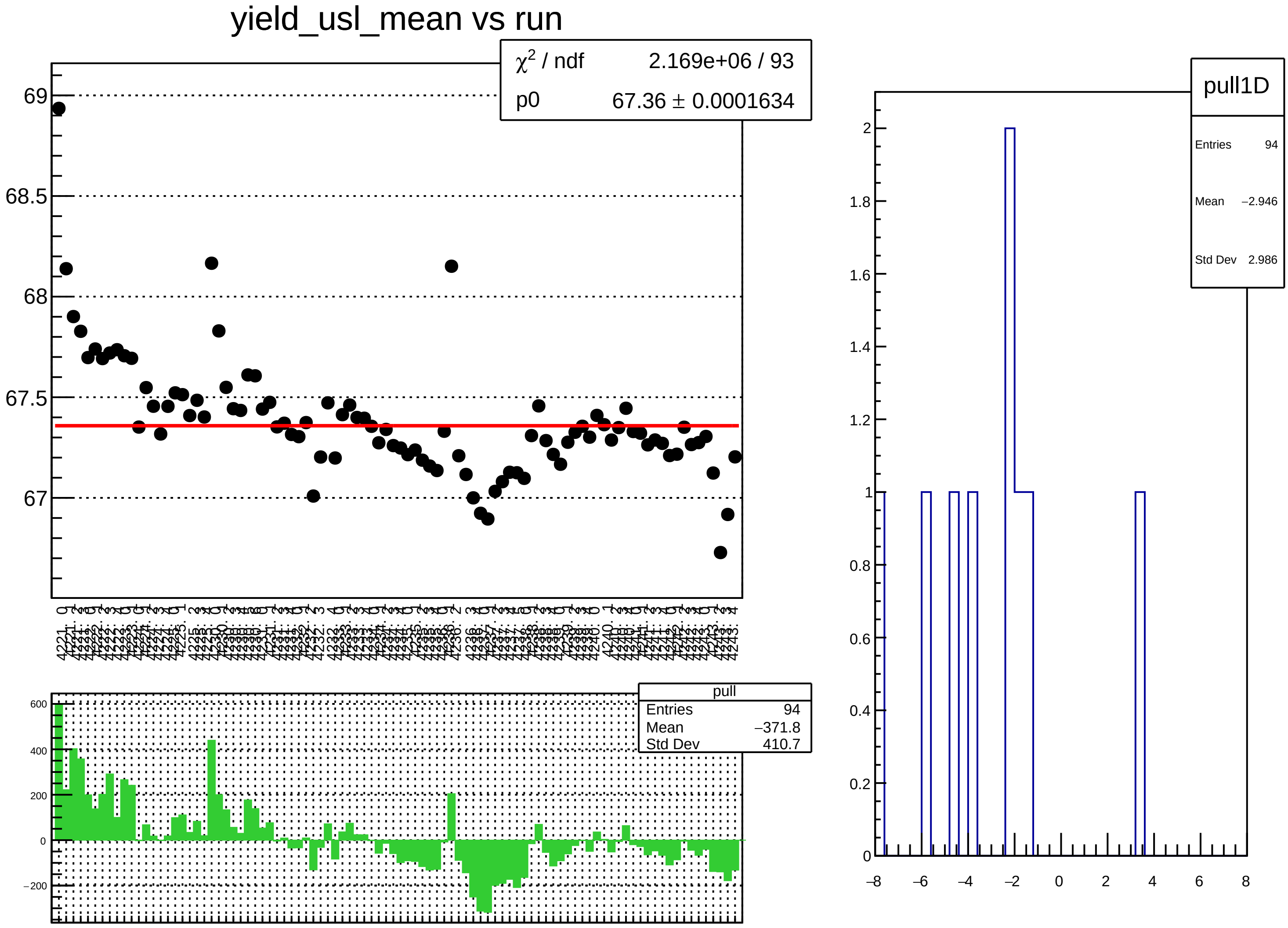


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ2 / ndf 1.182e+05 / 93
p0 139.8 ± 0.1057
300
250
200
150
100

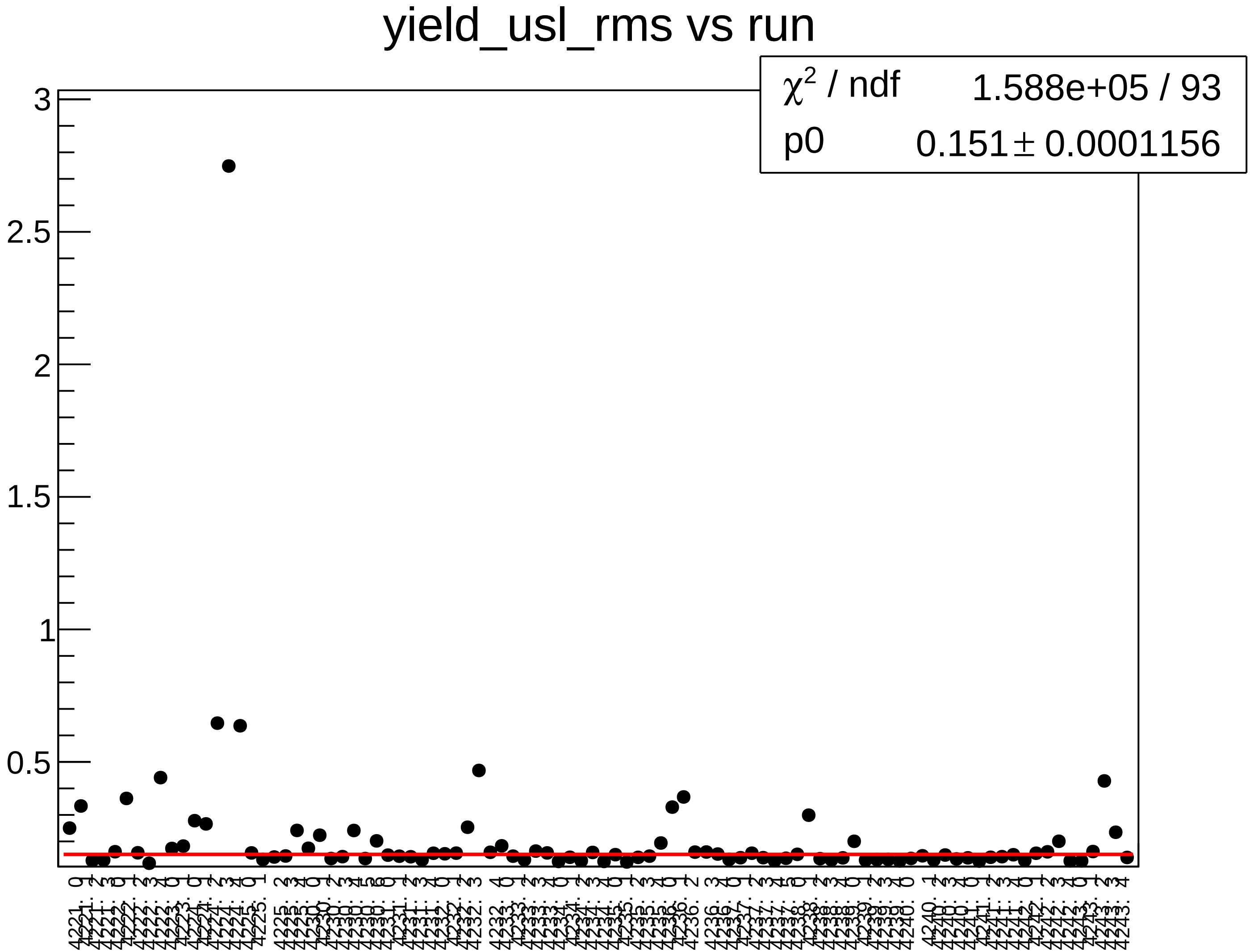


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ2 / ndf 97.39 / 93
p0 15.1 ± 21.16
600
400
200
0
−200
−400
−600
−800
pull
Entries 94
Mean −992.3
Std Dev 1049
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.003487
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

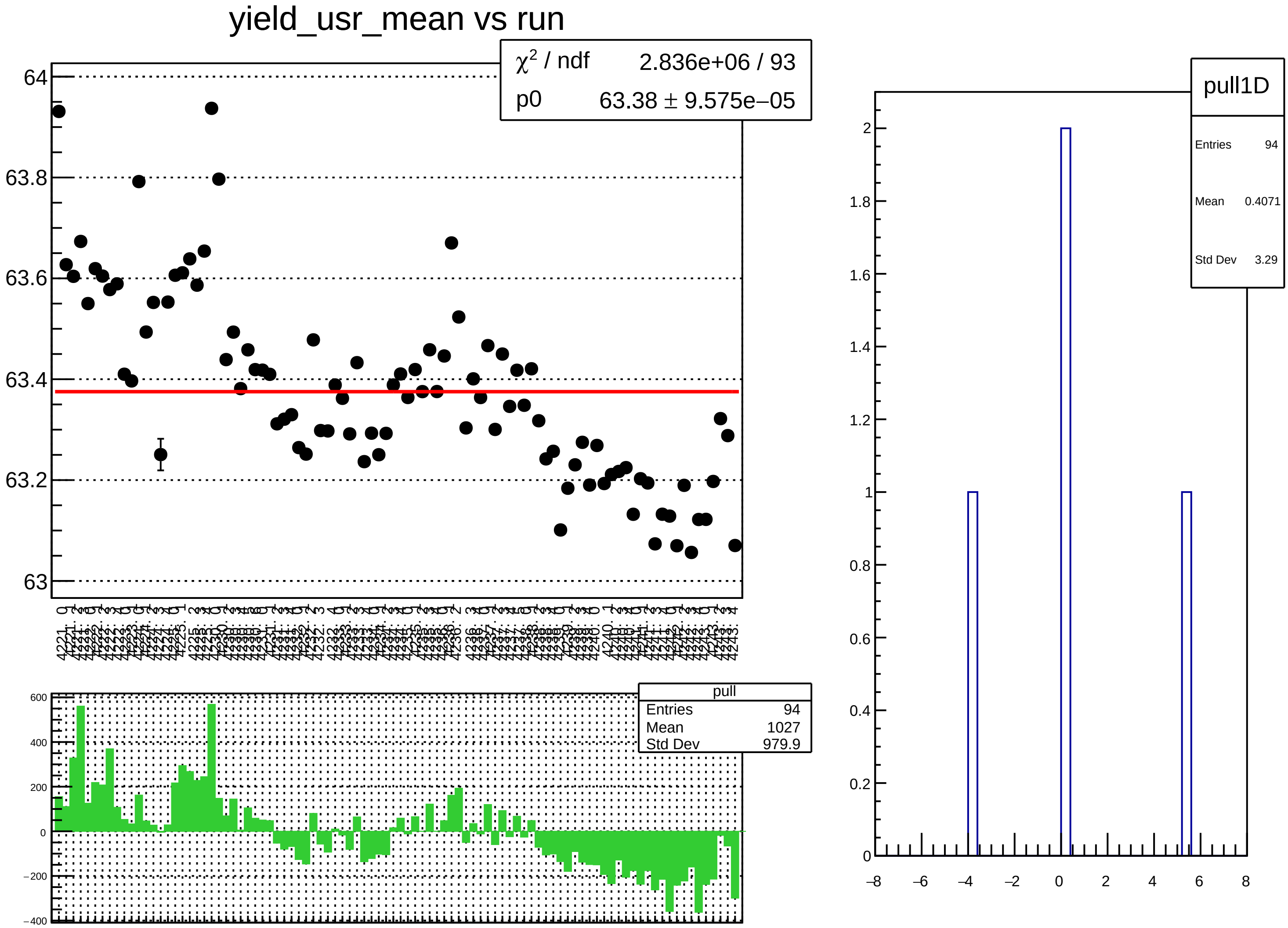

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2063 / 93
p0 20.43 ± 0.01497
22.5
22
21.5
21
20.5
20
19.5
19
18.5



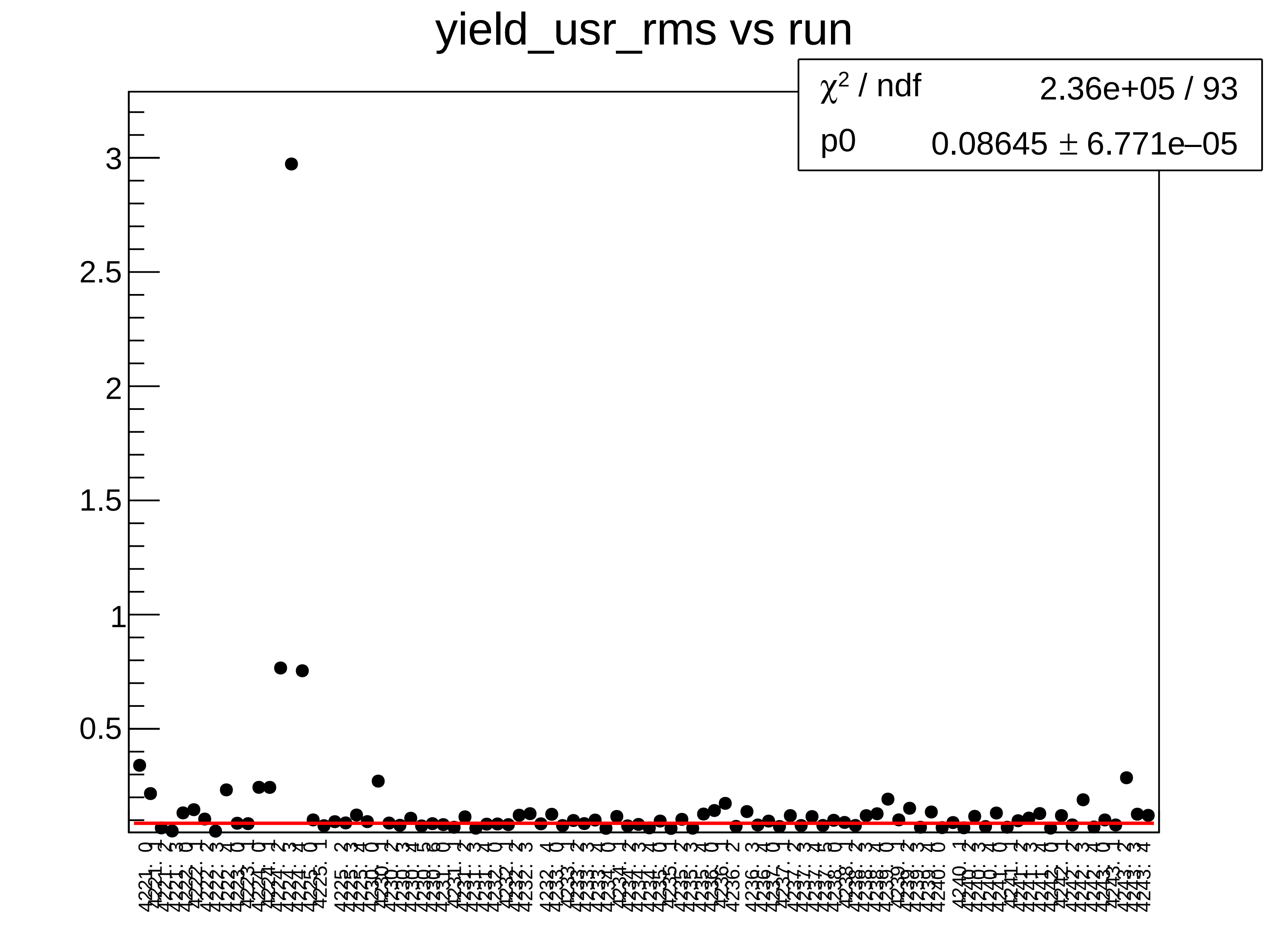
yield_usl_mean vs run
χ^2 / ndf 2.169e+06 / 93
p0 67.36 ± 0.0001634
pull
Entries 94
Mean −371.8
Std Dev 410.7
pull1D
Entries 94
Mean −2.946
Std Dev 2.986

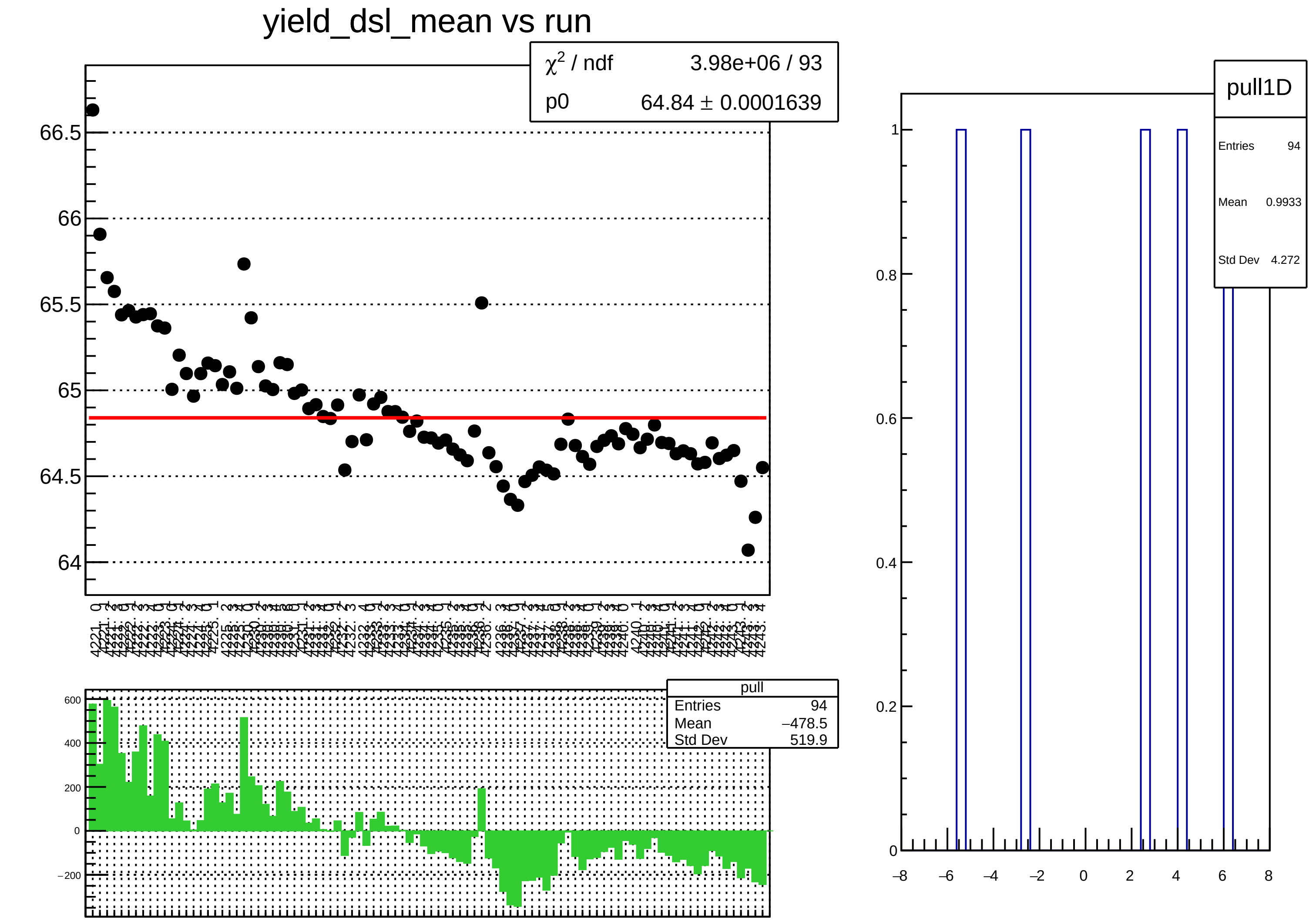


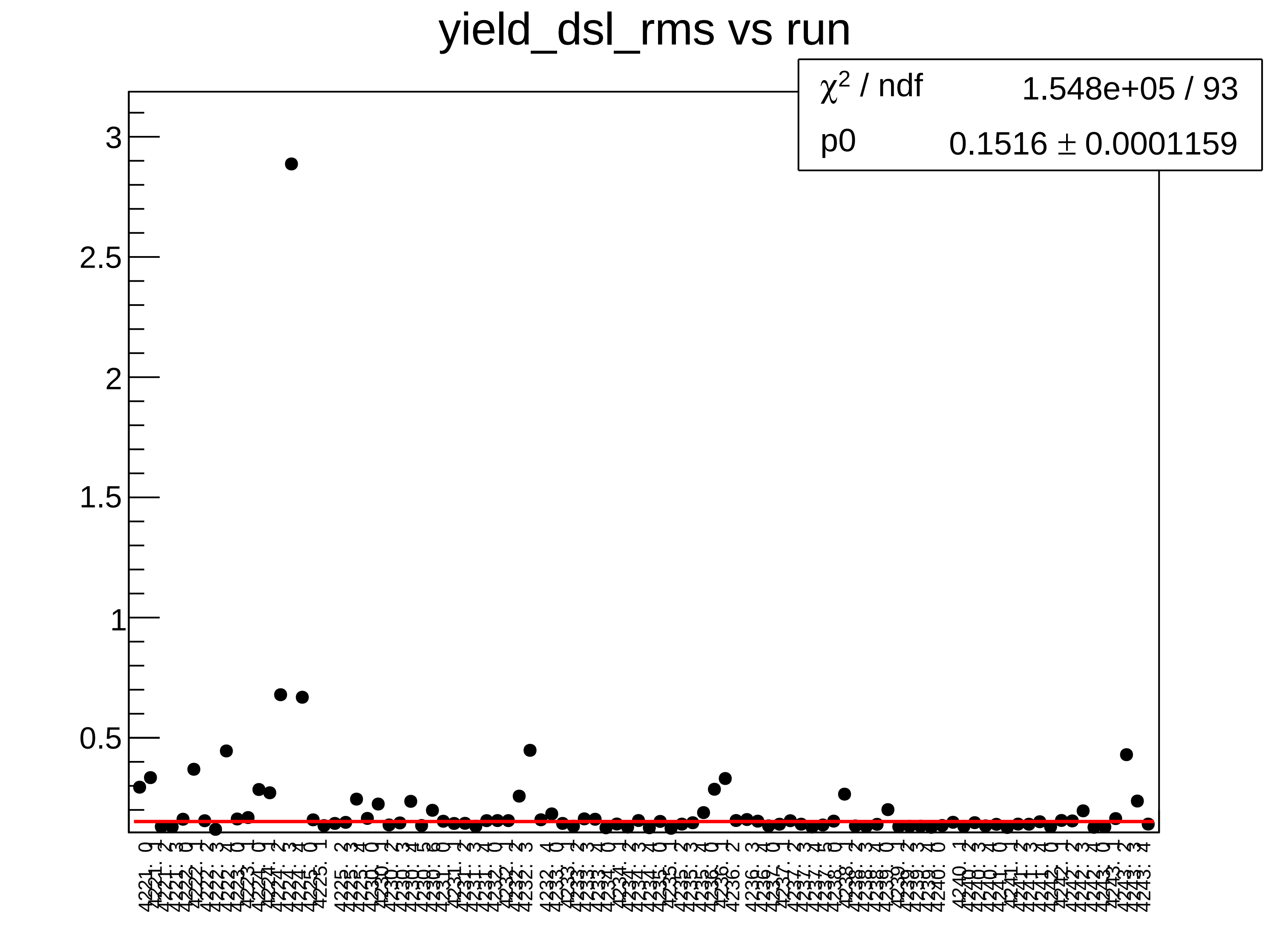
yield_usl_rms vs run
χ^2 / ndf 1.588e+05 / 93
p0 0.151 ± 0.0001156



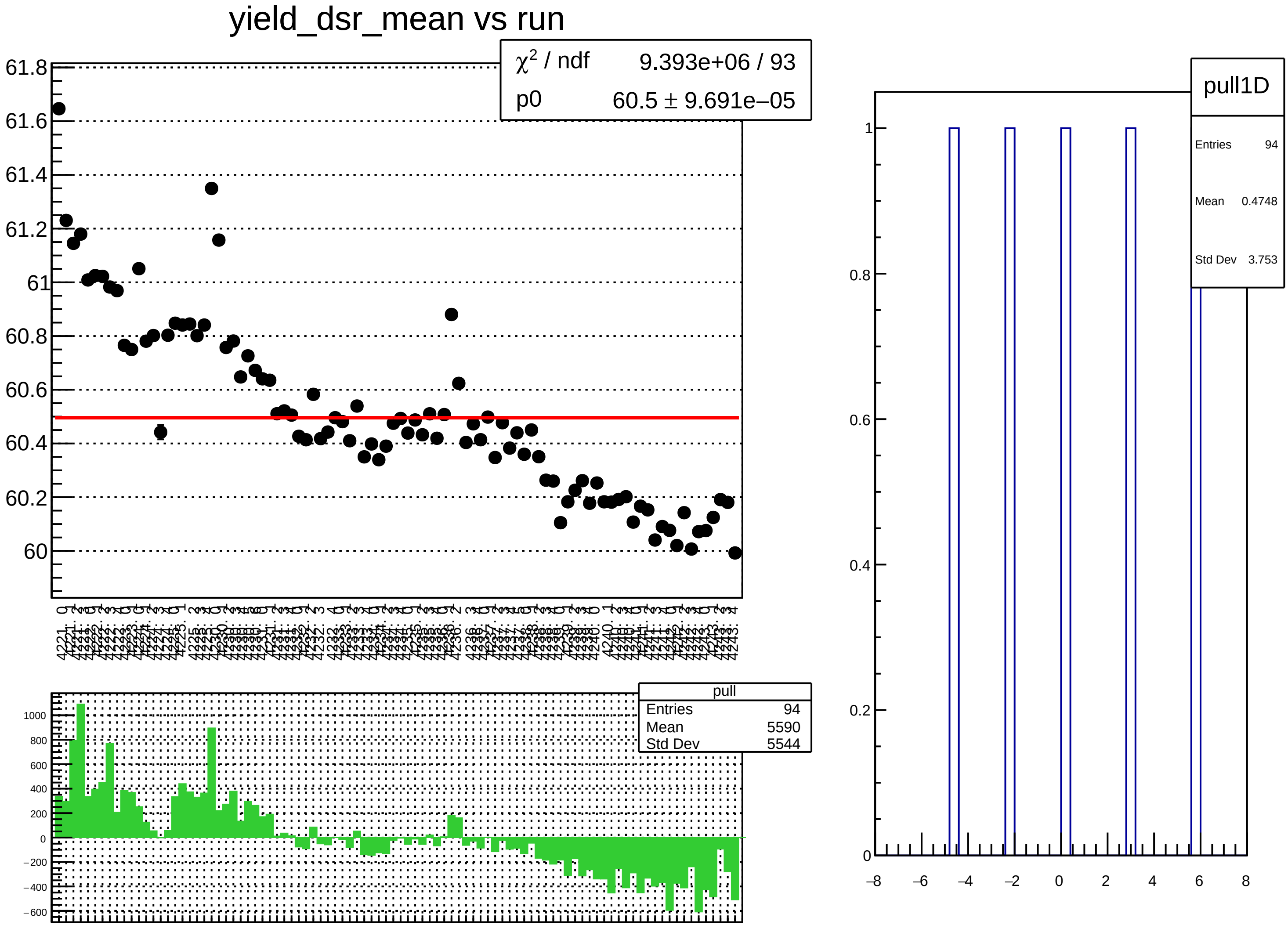
yield_usr_mean vs run
χ^2 / ndf 2.836e+06 / 93
p0 63.38 ± 9.575e−05
64
63.8
63.6
63.4
63.2
63
pull
Entries 94
Mean 1027
Std Dev 979.9
600
400
200
0
−200
−400
pull1D
Entries 94
Mean 0.4071
Std Dev 3.29
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_usr_rms vs run
χ2 / ndf 2.36e+05 / 93
p0 0.08645 ± 6.771e−05

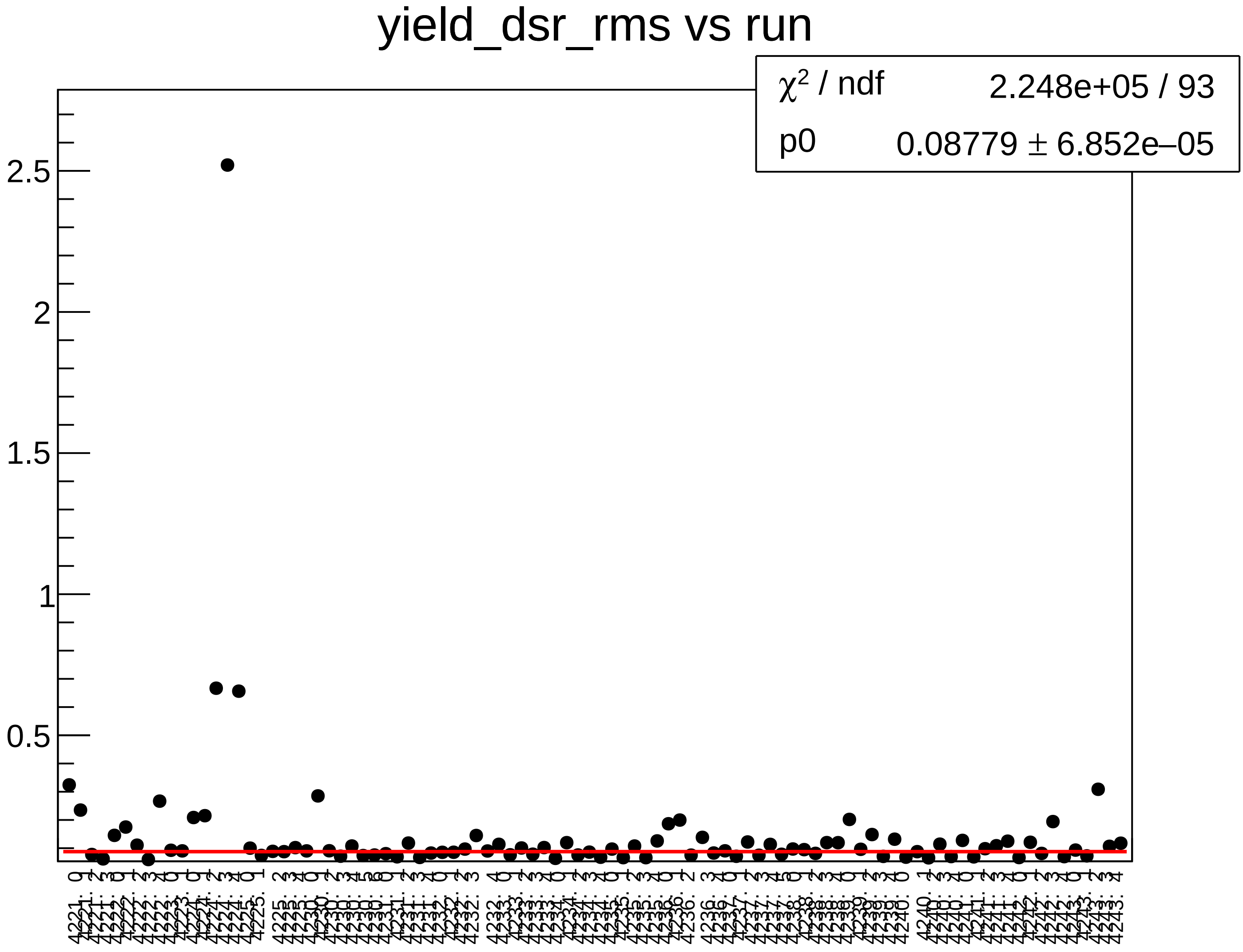

yield_dsl_mean vs run
χ^2 / ndf 3.98e+06 / 93
p0 64.84 ± 0.0001639
66.5
66
65.5
65
64.5
64
pull
Entries 94
Mean −478.5
Std Dev 519.9
600
400
200
0
−200
pull1D
Entries 94
Mean 0.9933
Std Dev 4.272
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



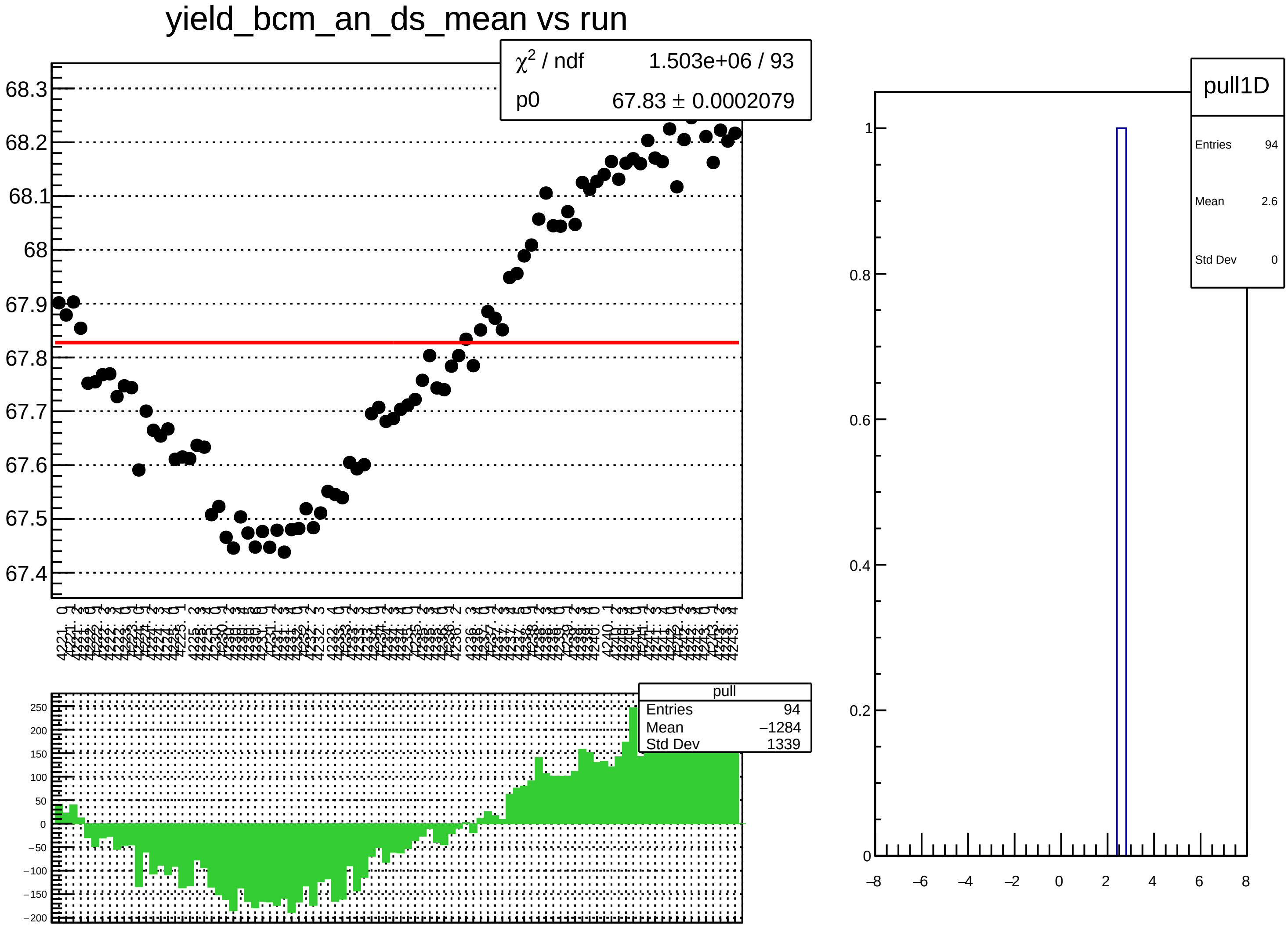
yield_dsl_rms vs run
χ^2 / ndf 1.548e+05 / 93
p0 0.1516 ± 0.0001159
3
2.5
2
1.5
1
0.5



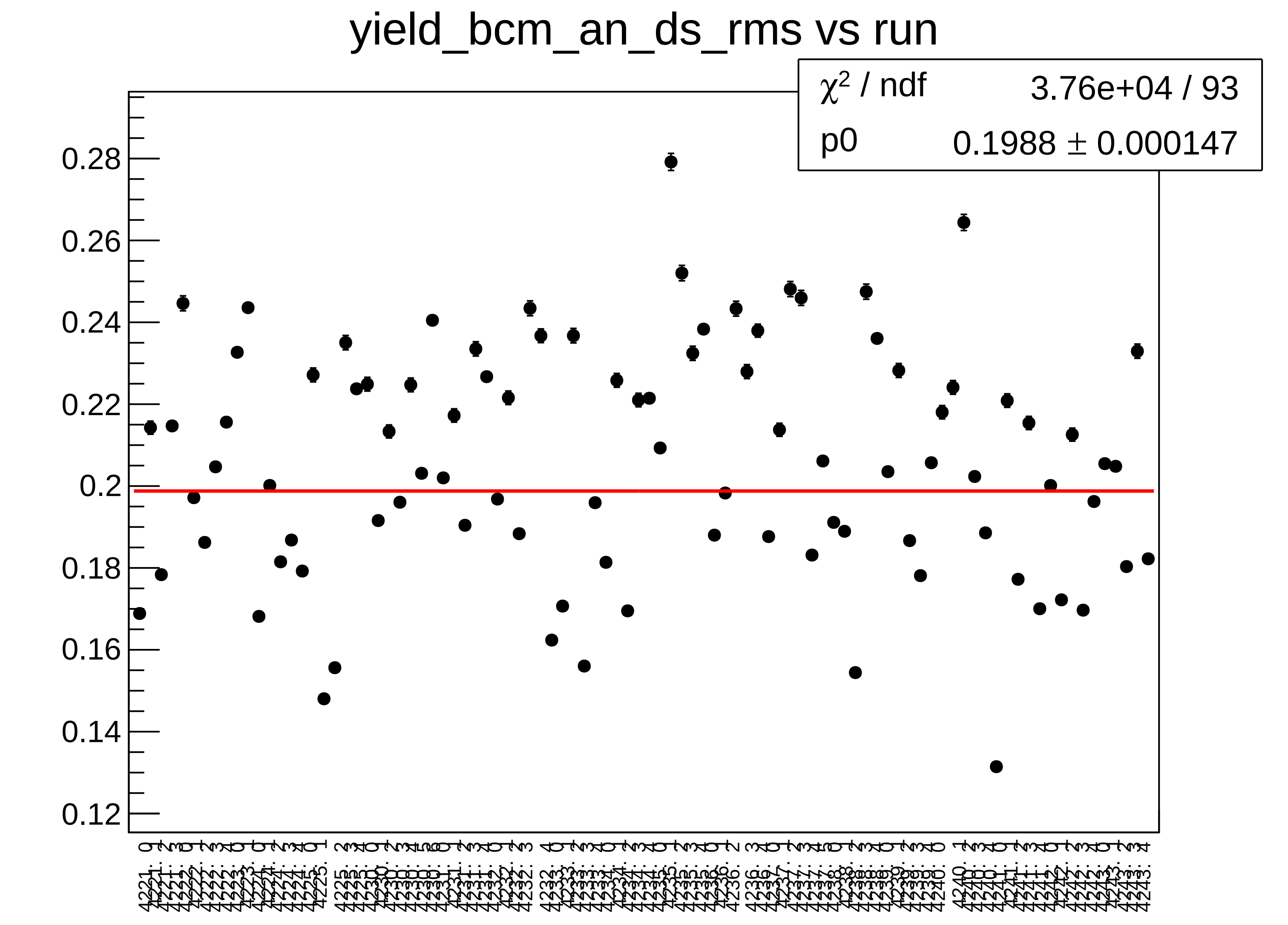
yield_dsr_mean vs run
χ^2 / ndf 9.393e+06 / 93
p0 60.5 ± 9.691e−05
pull
Entries 94
Mean 5590
Std Dev 5544
pull1D
Entries 94
Mean 0.4748
Std Dev 3.753

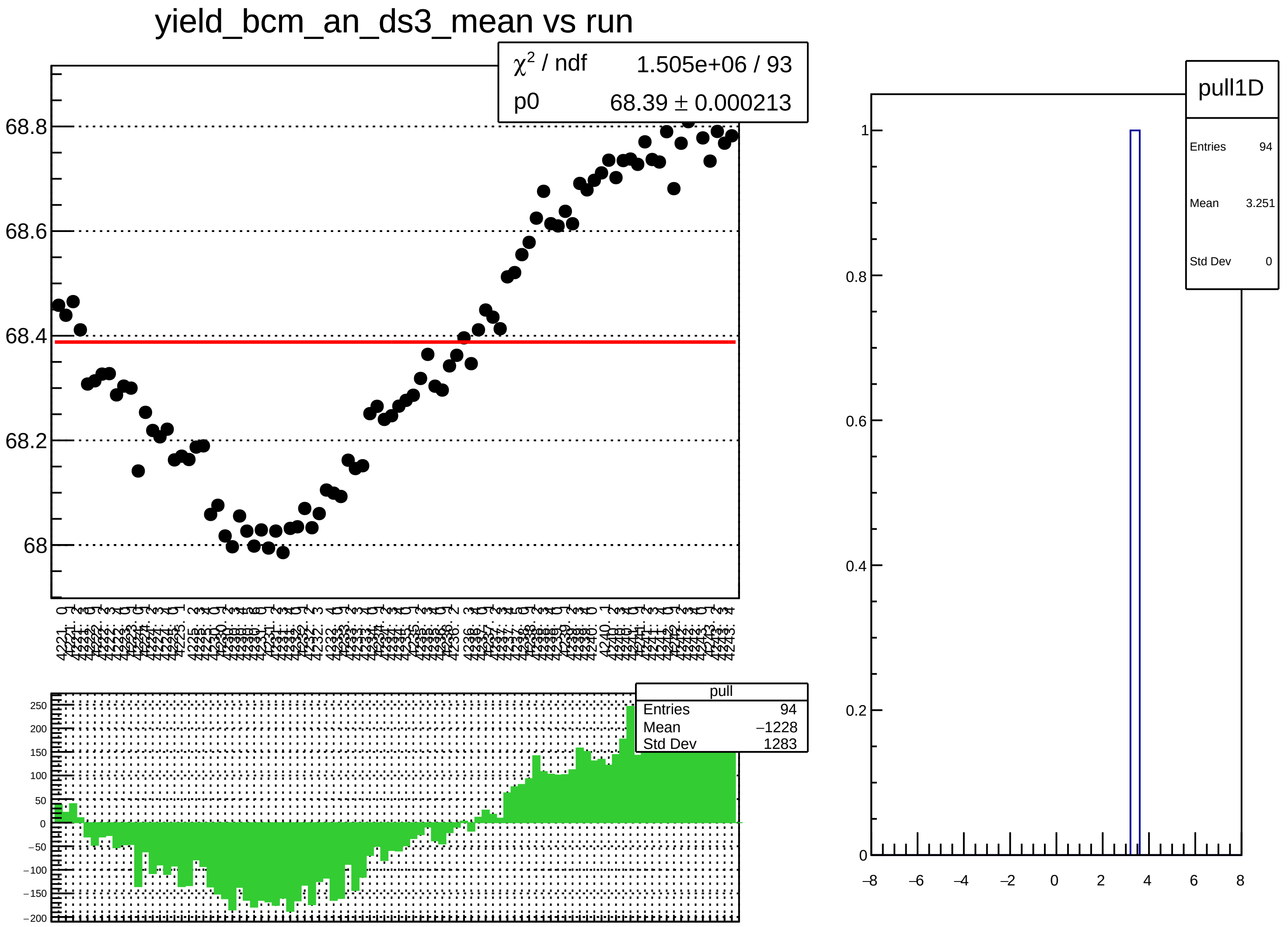


yield_dsr_rms vs run
χ^2 / ndf 2.248e+05 / 93
p0 0.08779 ± 6.852e−05
2.5
2
1.5
1
0.5

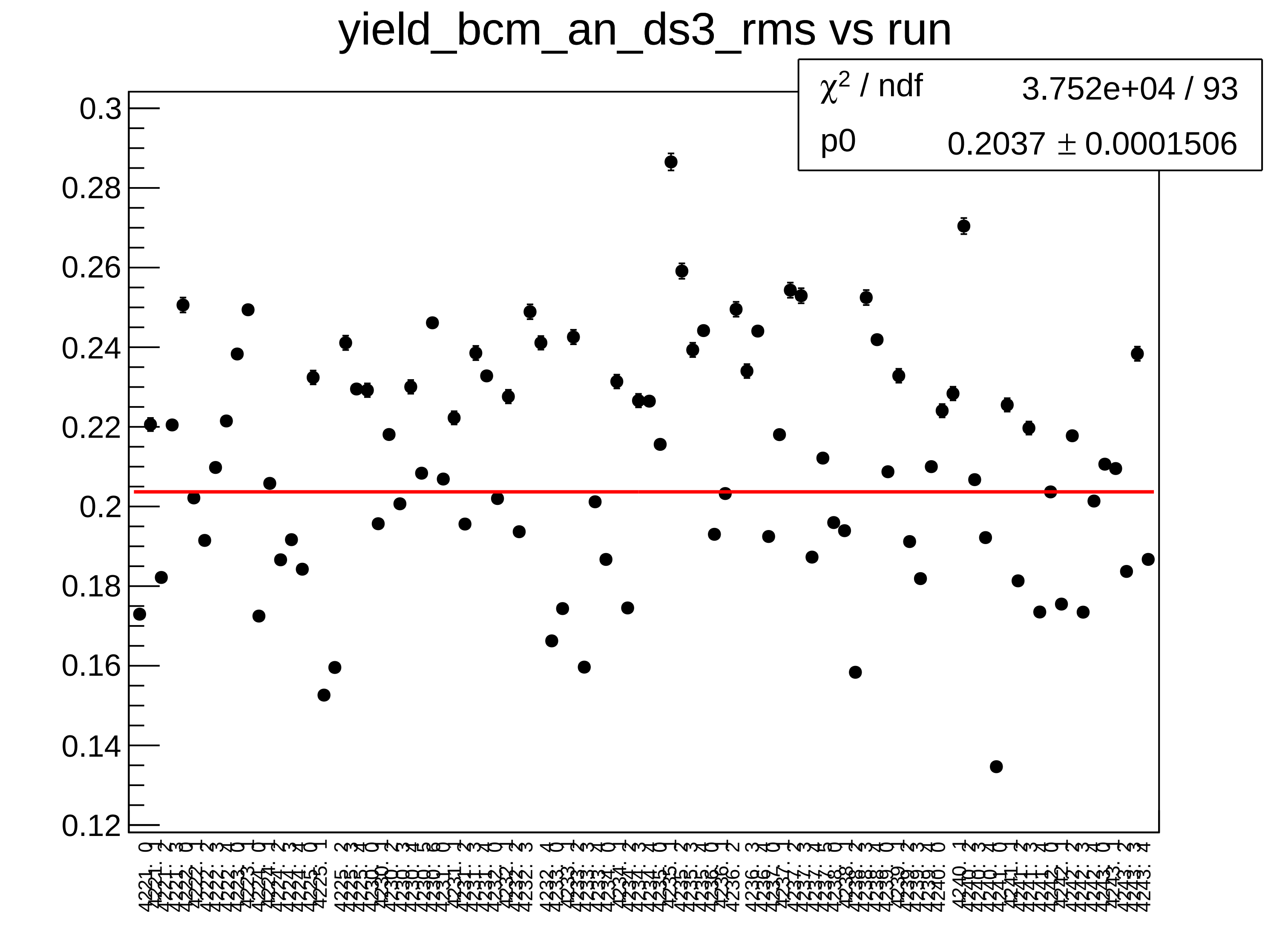


yield_bcm_an_ds_mean vs run
χ2 / ndf 1.503e+06 / 93
p0 67.83 ± 0.0002079
68.3
68.2
68.1
68
67.9
67.8
67.7
67.6
67.5
67.4
pull
Entries 94
Mean −1284
Std Dev 1339
250
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 94
Mean 2.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

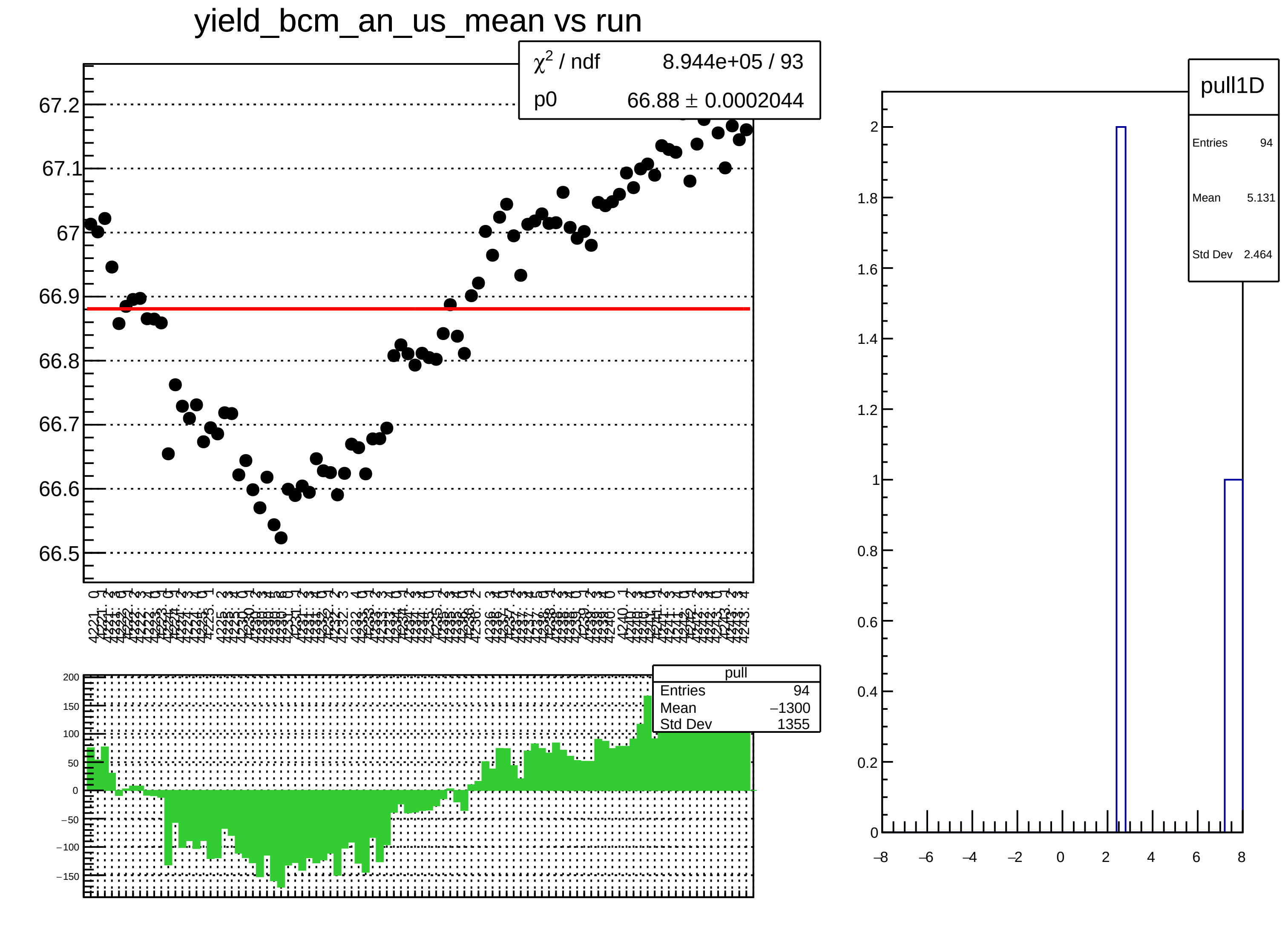

yield_bcm_an_ds_rms vs run
χ^2 / ndf 3.76e+04 / 93
p0 0.1988 ± 0.000147
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12



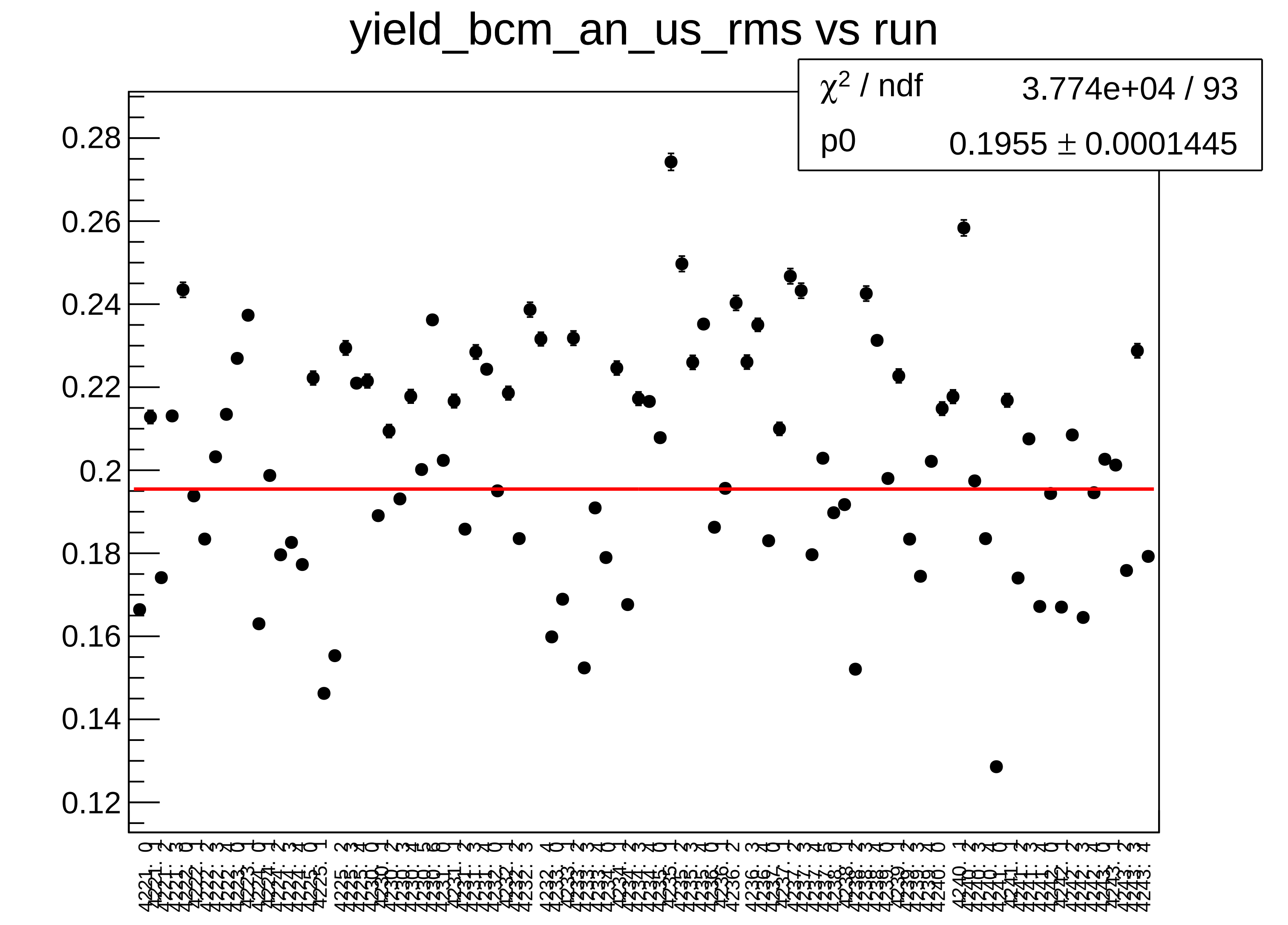
yield_bcm_an_ds3_mean vs run
χ^2 / ndf 1.505e+06 / 93
p0 68.39 ± 0.000213
pull
Entries 94
Mean −1228
Std Dev 1283
pull1D
Entries 94
Mean 3.251
Std Dev 0



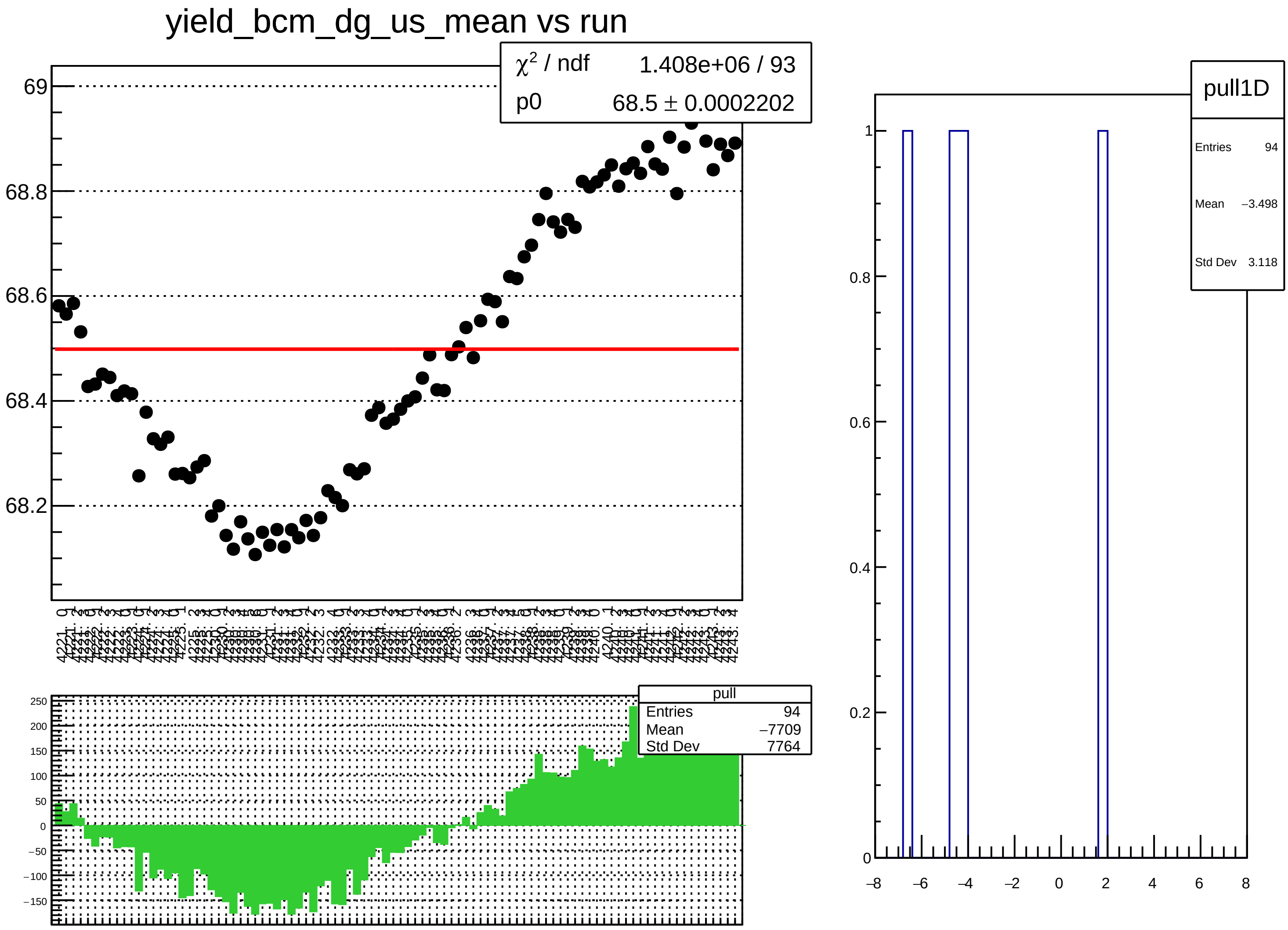
yield_bcm_an_ds3_rms vs run
χ2 / ndf 3.752e+04 / 93
p0 0.2037 ± 0.0001506
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12



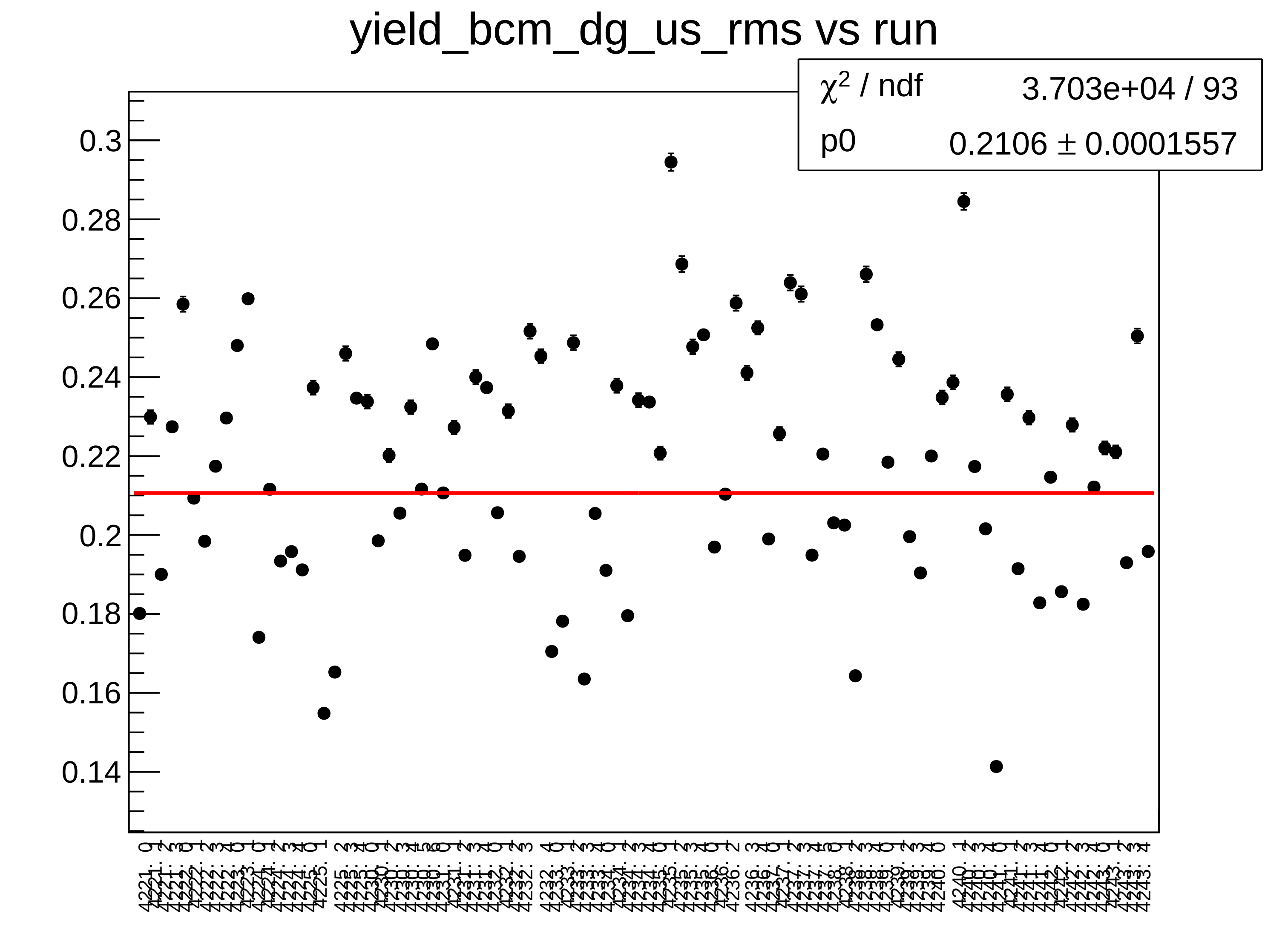
yield_bcm_an_us_mean vs run
χ^2 / ndf 8.944e+05 / 93
p0 66.88 ± 0.0002044
pull
Entries 94
Mean −1300
Std Dev 1355
pull1D
Entries 94
Mean 5.131
Std Dev 2.464

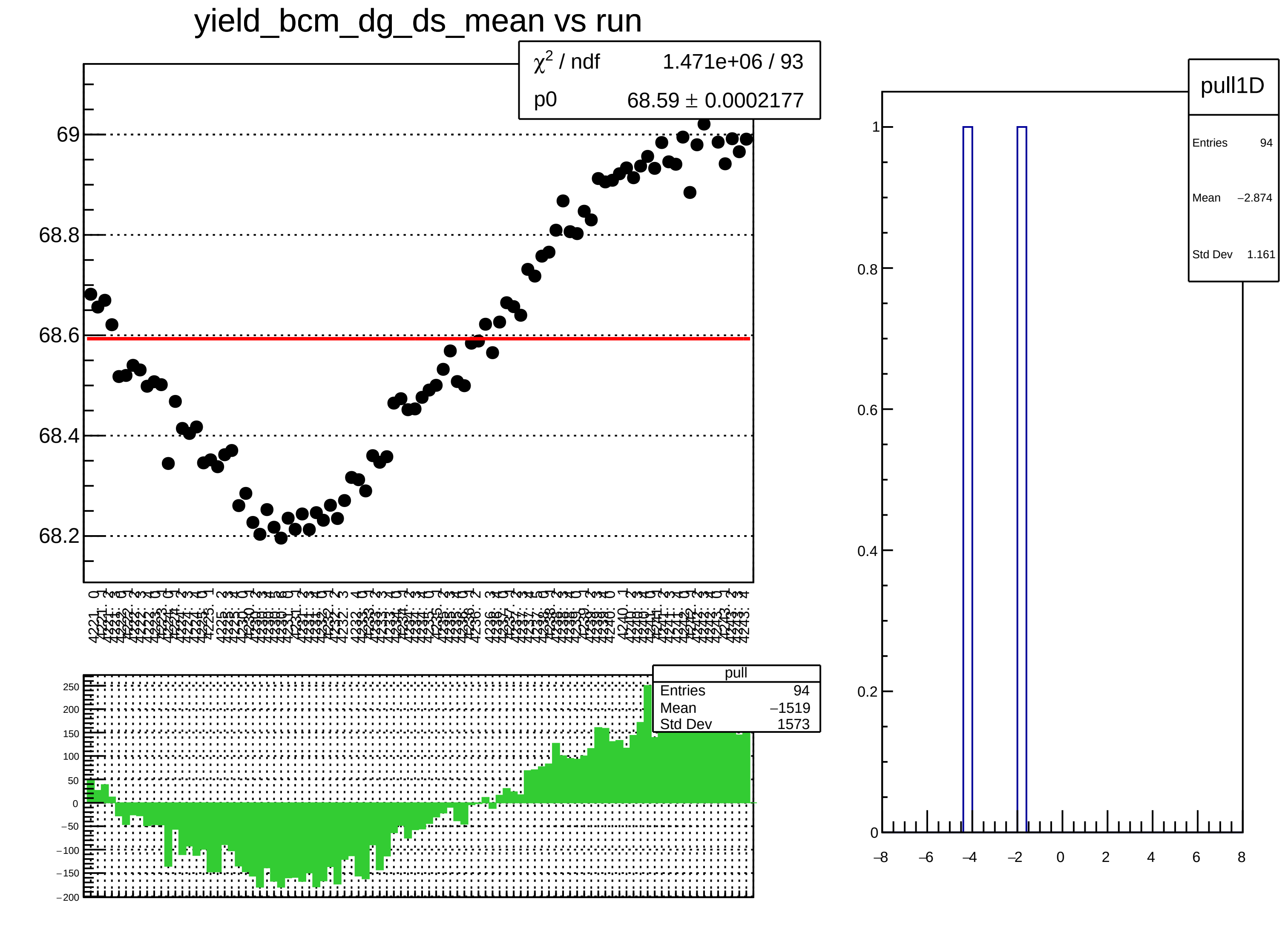


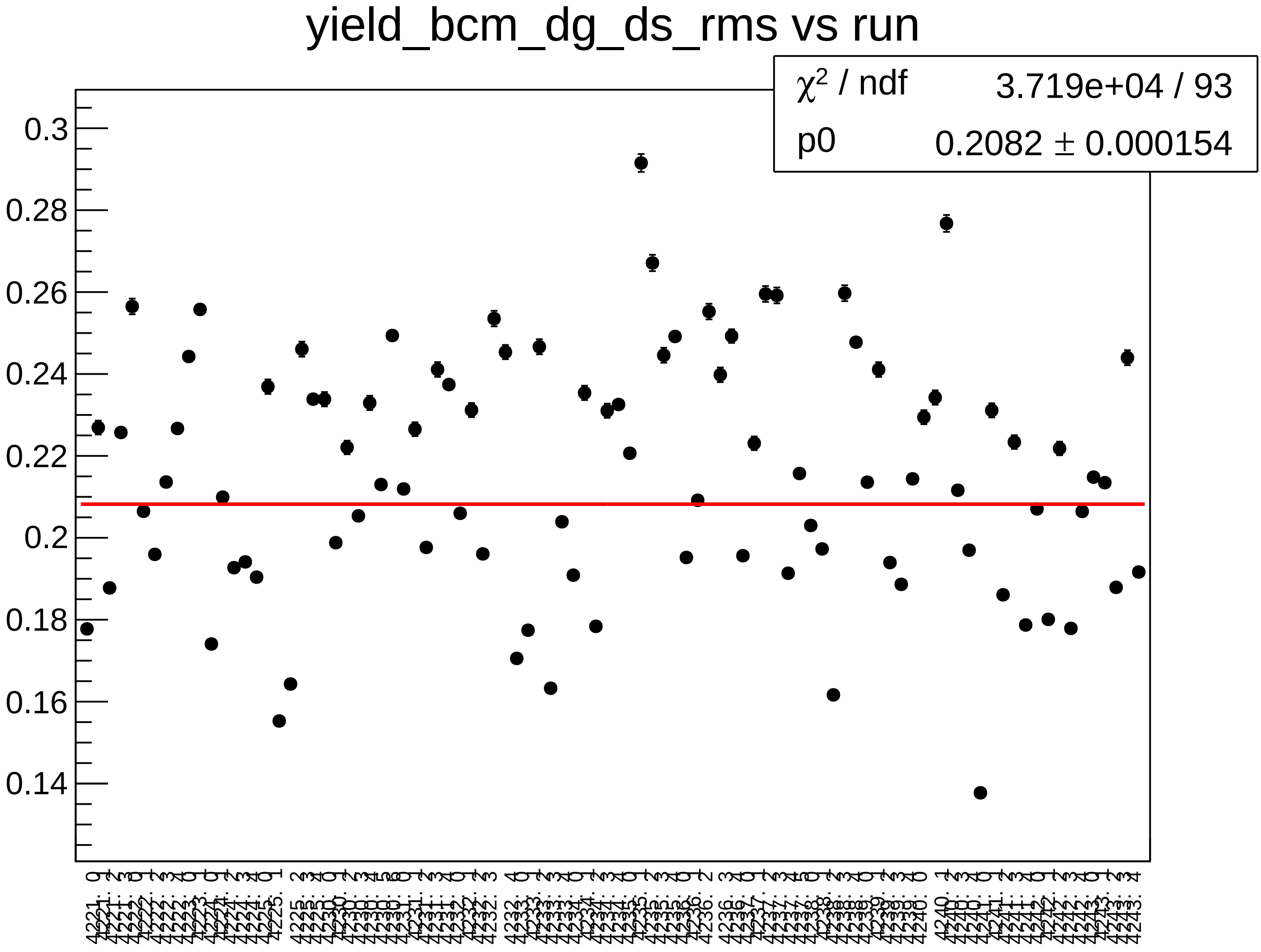
yield_bcm_an_us_rms vs run
χ² / ndf 3.774e+04 / 93
p0 0.1955 ± 0.0001445
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12



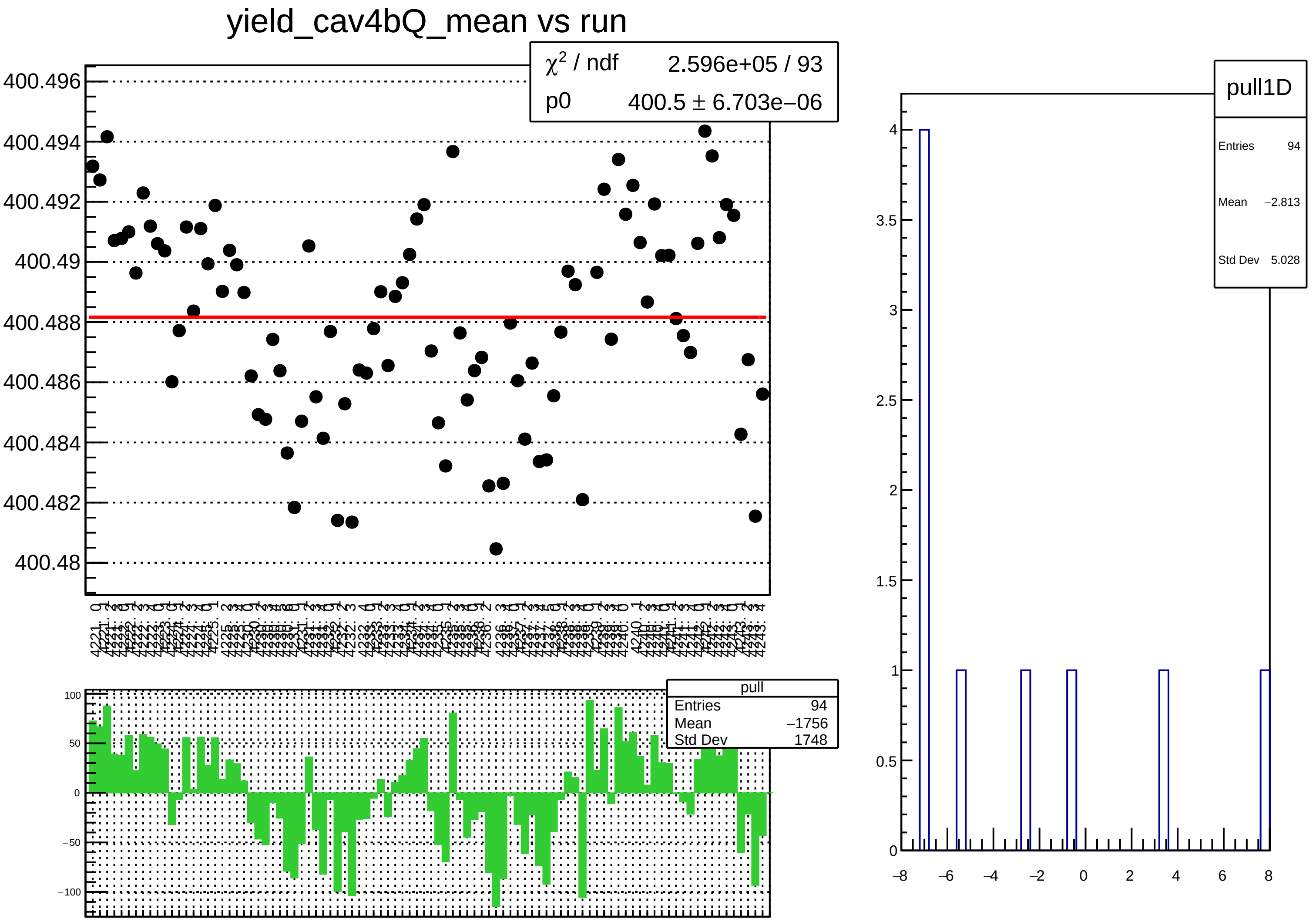
yield_bcm_dg_us_mean vs run
χ^2 / ndf 1.408e+06 / 93
p0 68.5 ± 0.0002202
69
68.8
68.6
68.4
68.2
pull
Entries 94
Mean −7709
Std Dev 7764
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 94
Mean −3.498
Std Dev 3.118
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_dg_us_rms vs run
χ^2 / ndf 3.703e+04 / 93
p0 0.2106 ± 0.0001557
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14

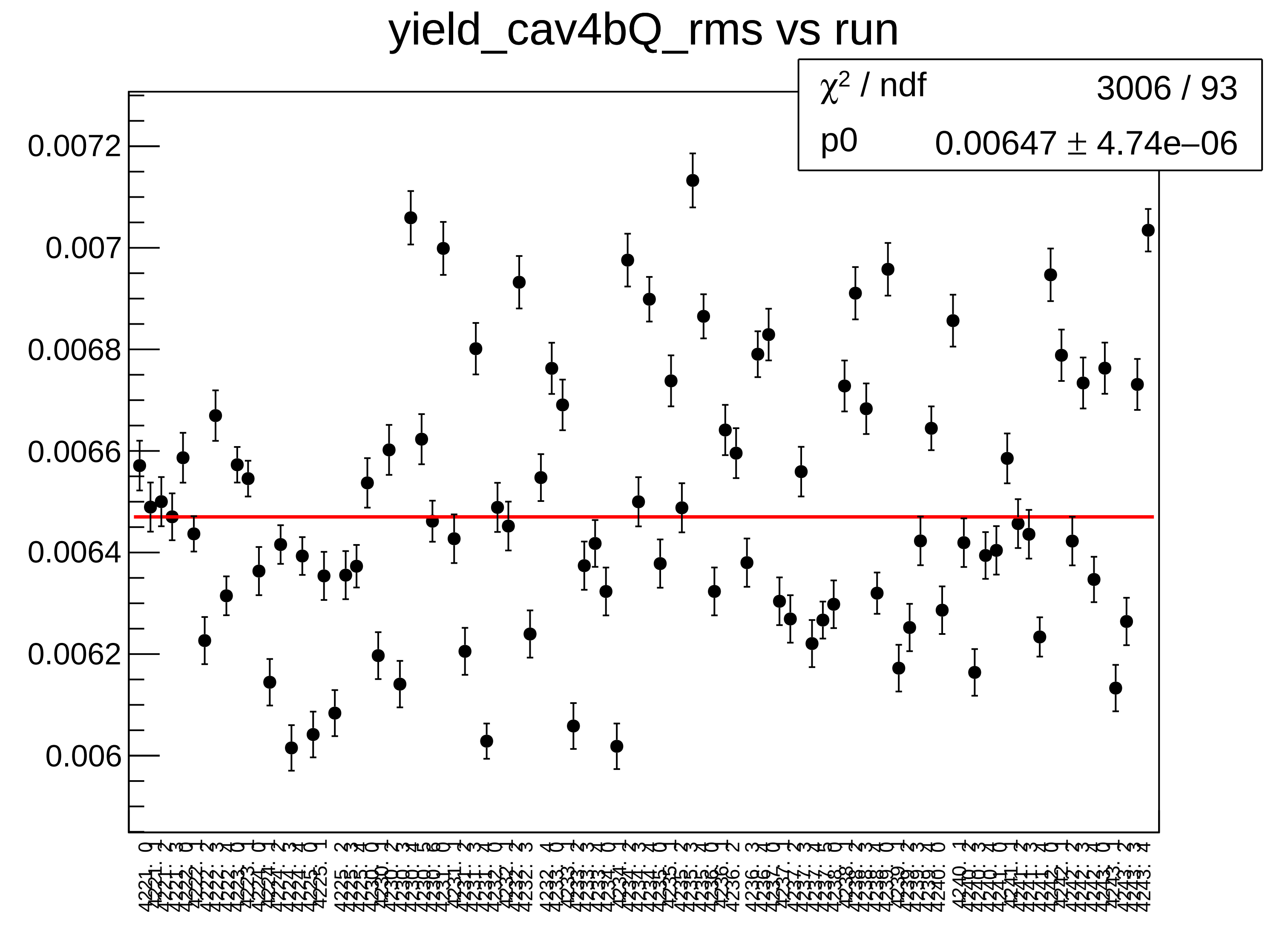

yield_bcm_dg_ds_mean vs run
χ2 / ndf 1.471e+06 / 93
p0 68.59 ± 0.0002177
69
68.8
68.6
68.4
68.2
pull
Entries 94
Mean −1519
Std Dev 1573
250
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 94
Mean −2.874
Std Dev 1.161
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

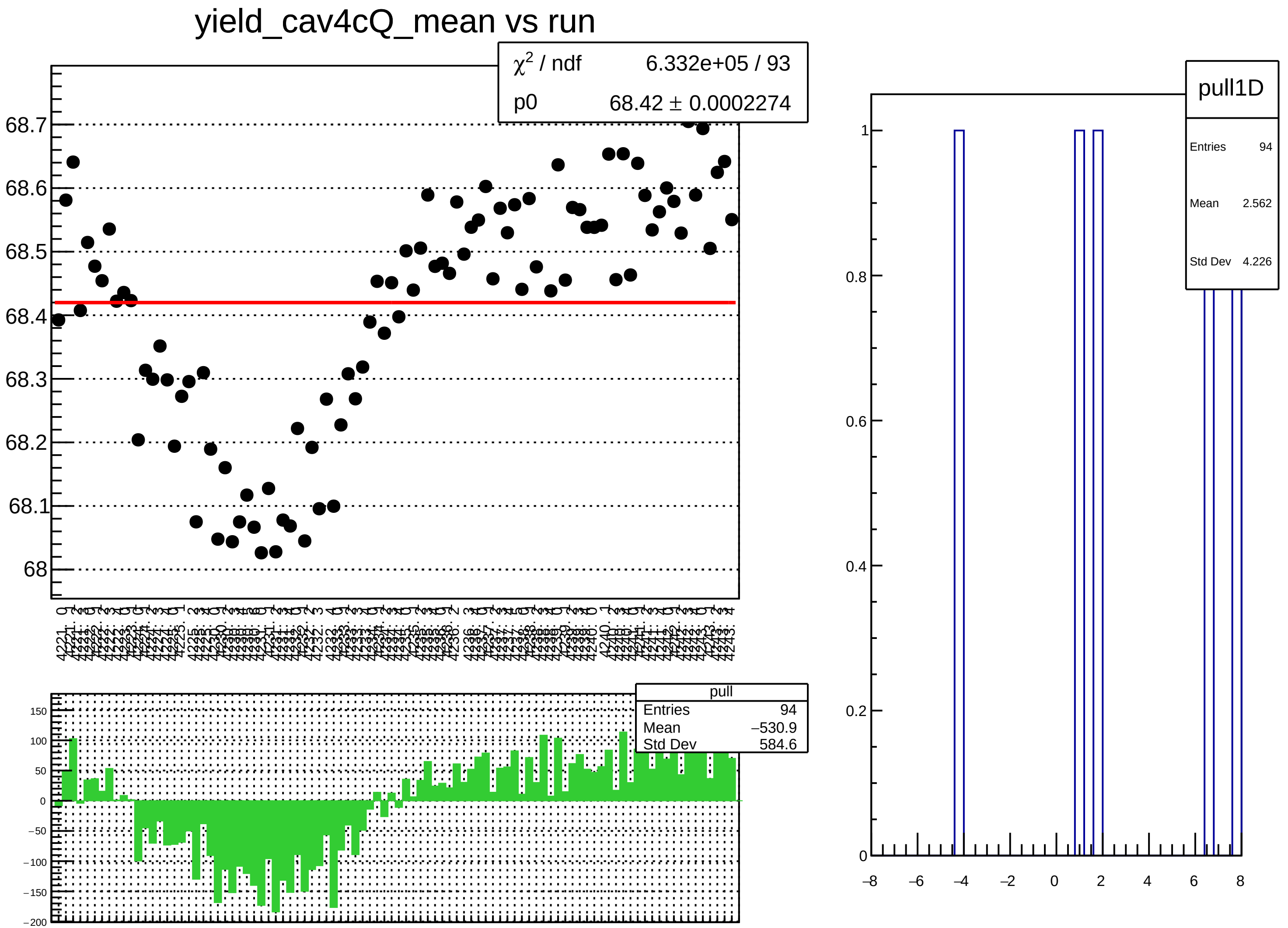


yield_bcm_dg_ds_rms vs run
χ2 / ndf 3.719e+04 / 93
p0 0.2082 ± 0.000154
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14

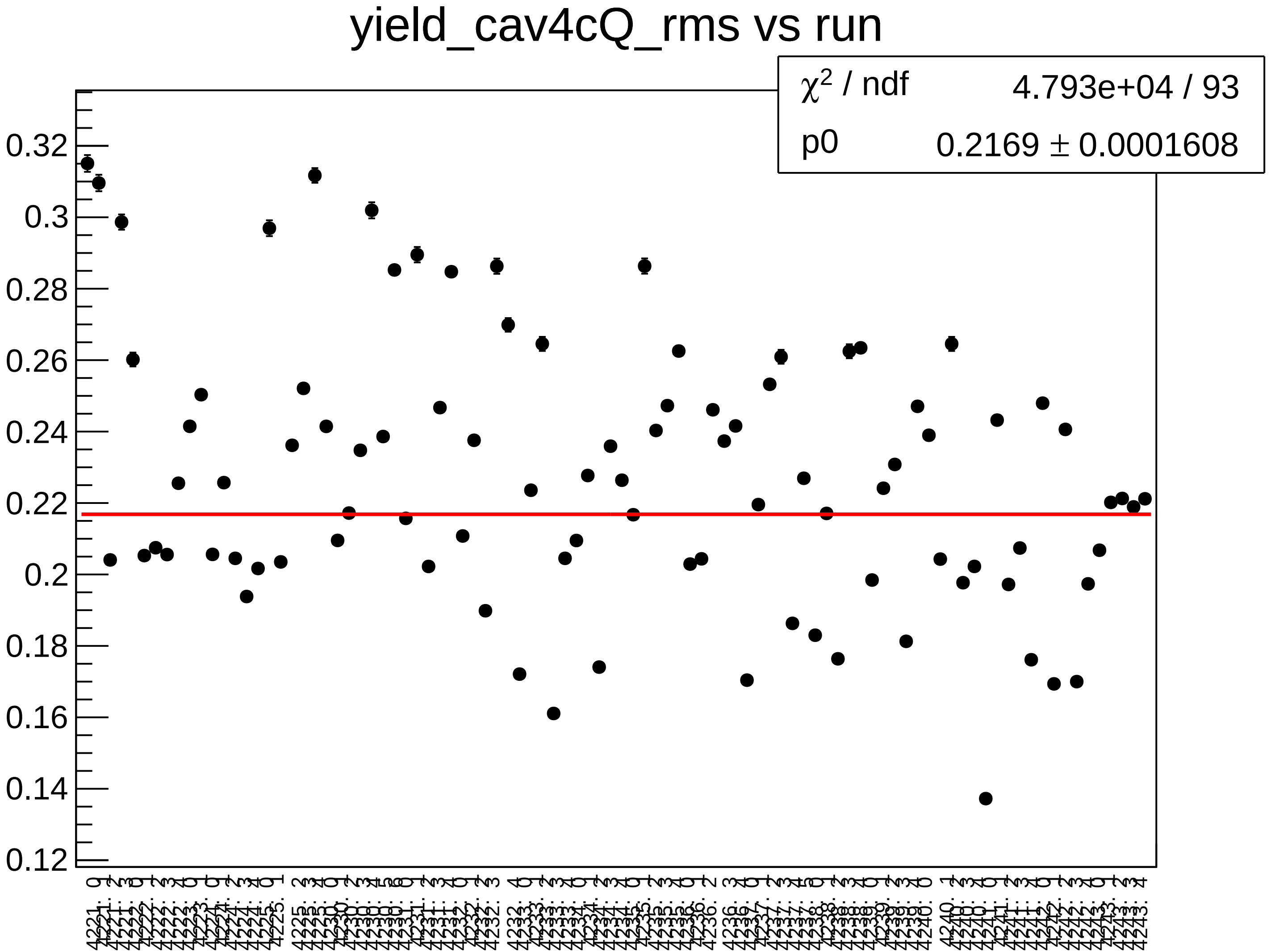


yield_cav4bQ_mean vs run
χ^2 / ndf 2.596e+05 / 93
p0 400.5 ± 6.703e−06
pull
Entries 94
Mean −1756
Std Dev 1748
pull1D
Entries 94
Mean −2.813
Std Dev 5.028

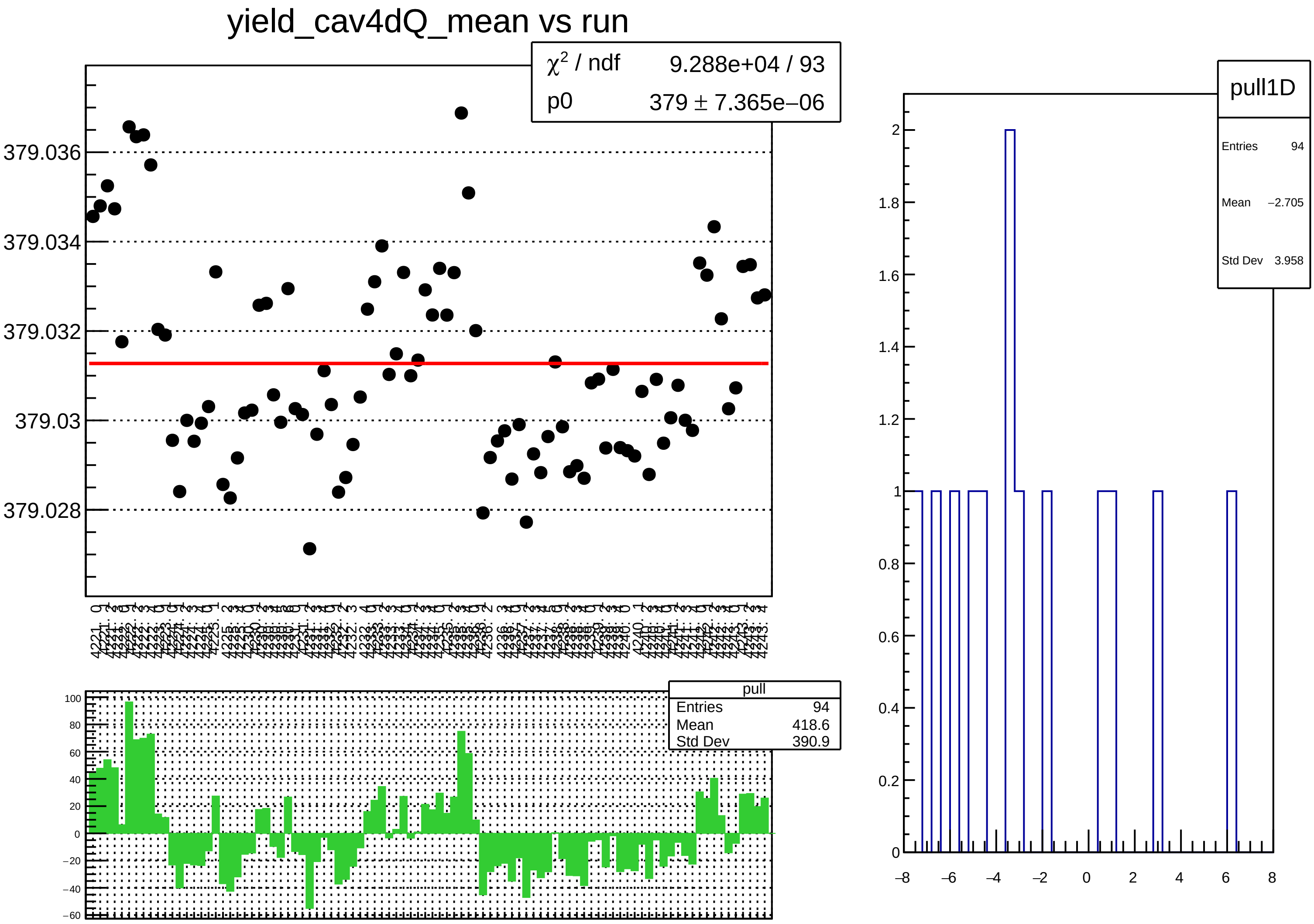

yield_cav4bQ_rms vs run
χ^2 / ndf 3006 / 93
p0 0.00647 ± 4.74e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006



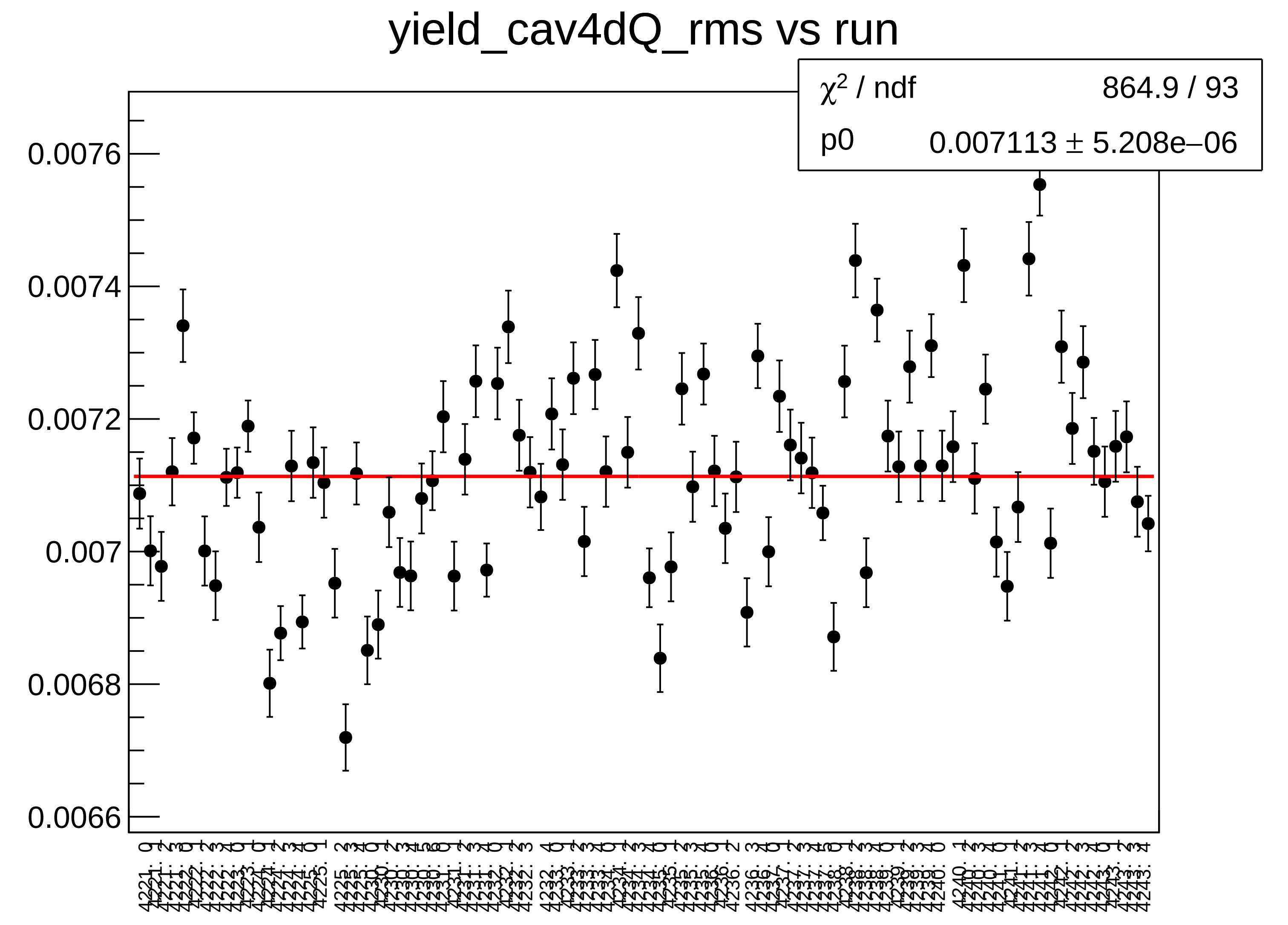
yield_cav4cQ_mean vs run
χ^2 / ndf 6.332e+05 / 93
p0 68.42 ± 0.0002274
pull
Entries 94
Mean −530.9
Std Dev 584.6
pull1D
Entries 94
Mean 2.562
Std Dev 4.226



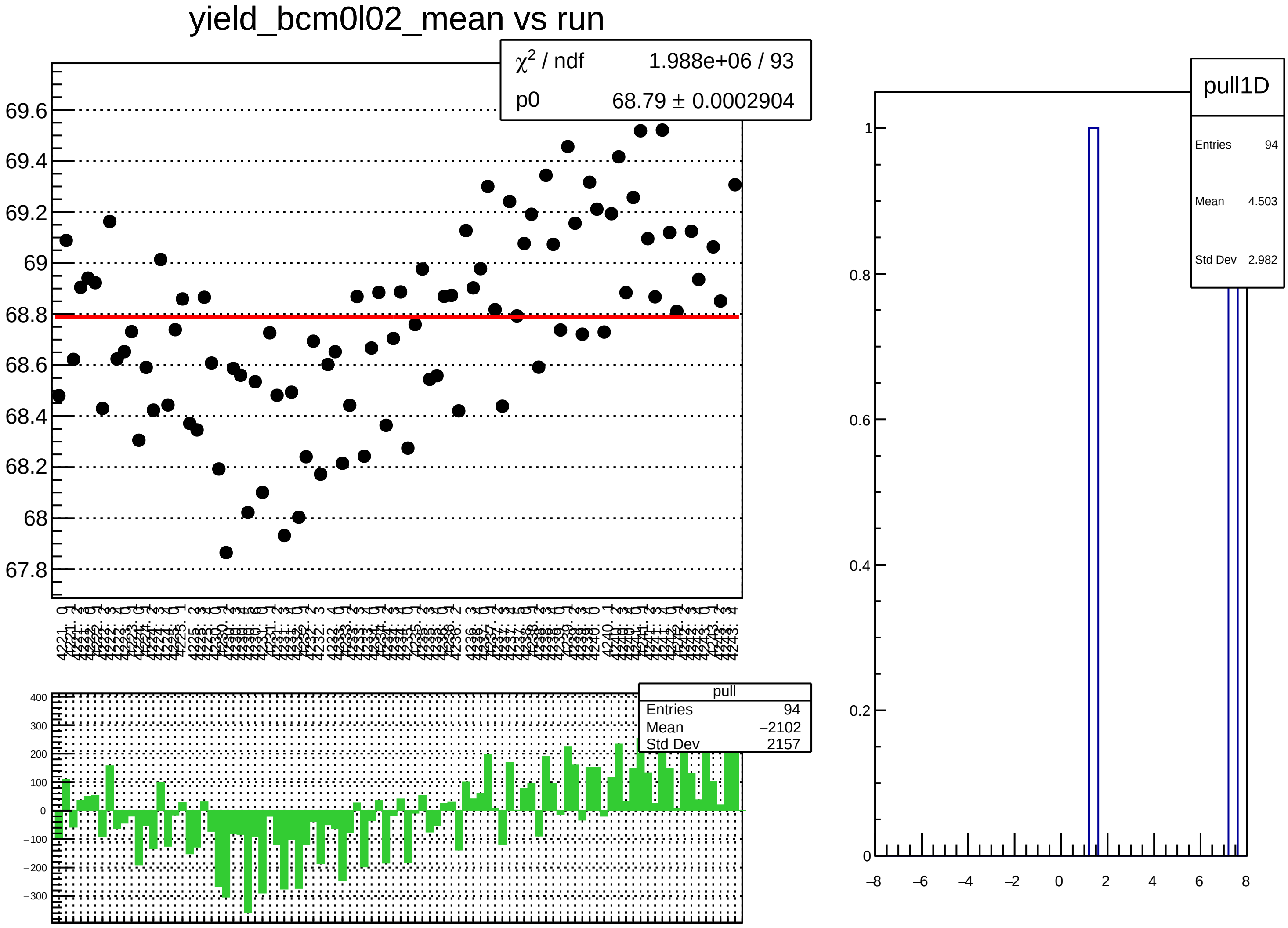
yield_cav4cQ_rms vs run
χ2 / ndf 4.793e+04 / 93
p0 0.2169 ± 0.0001608
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12



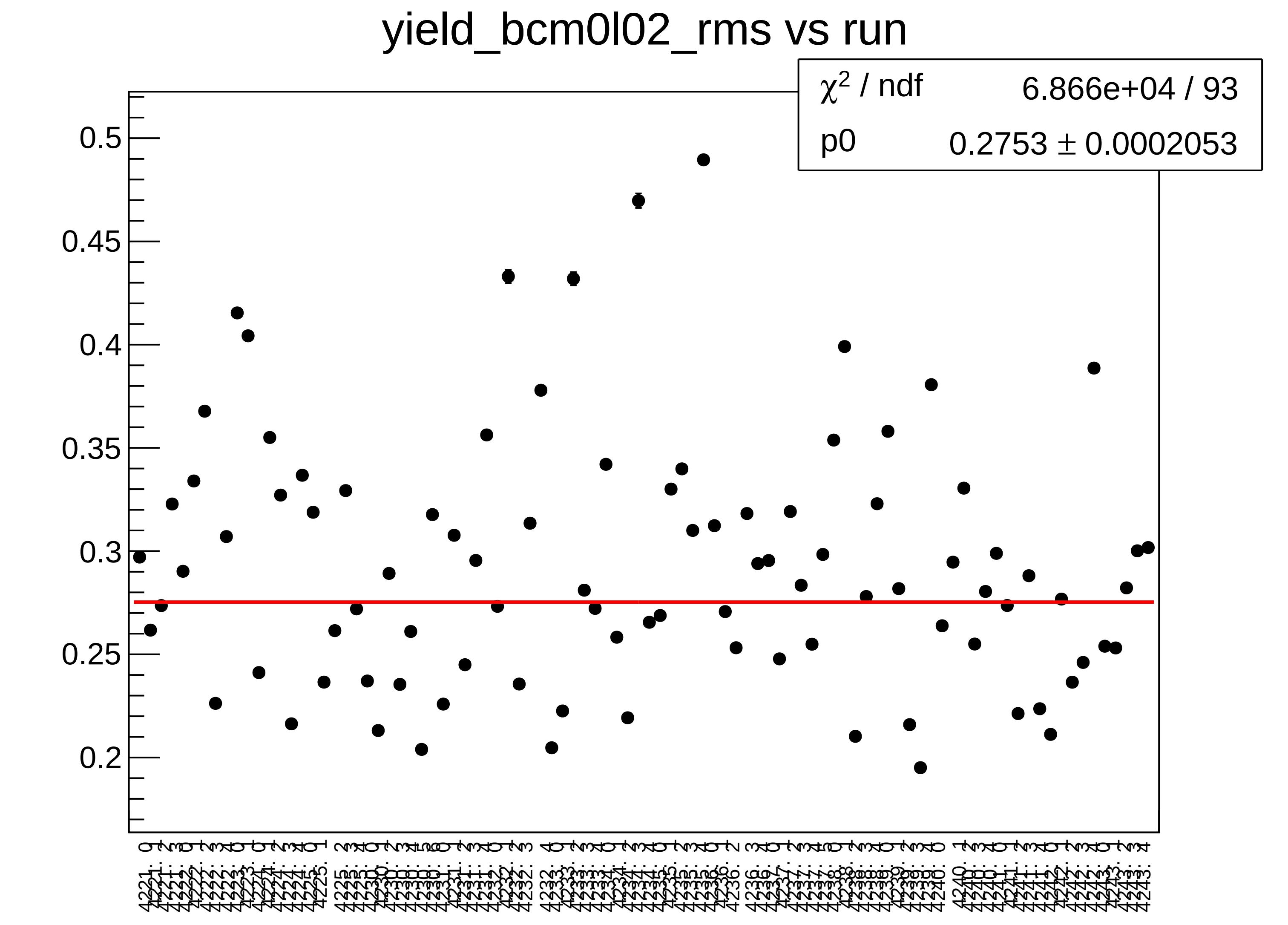
yield_cav4dQ_mean vs run
χ^2 / ndf 9.288e+04 / 93
p0 379 ± 7.365e−06
379.036
379.034
379.032
379.03
379.028
pull
Entries 94
Mean 418.6
Std Dev 390.9
pull1D
Entries 94
Mean −2.705
Std Dev 3.958



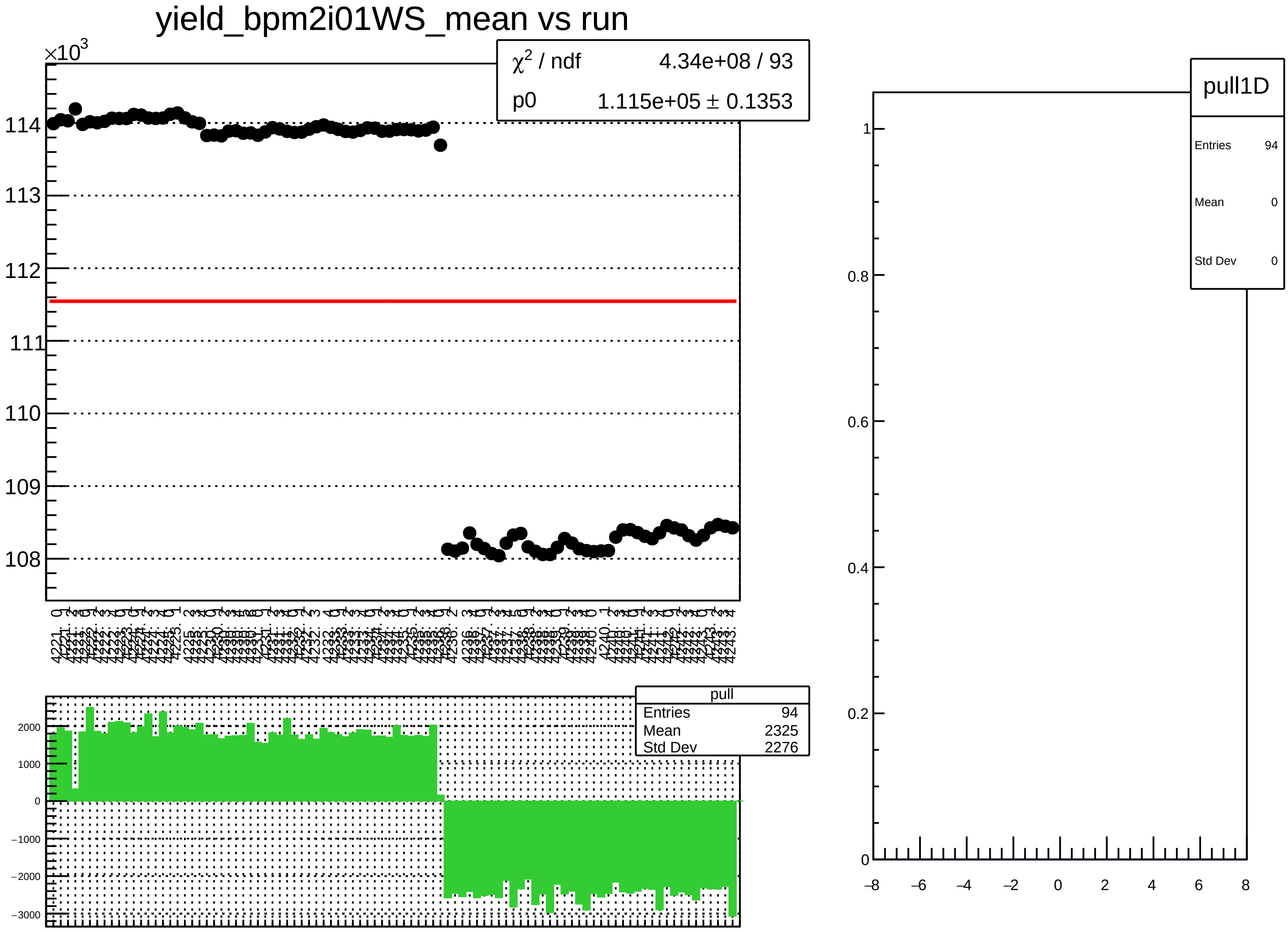
yield_cav4dQ_rms vs run
χ2 / ndf 864.9 / 93
p0 0.007113 ± 5.208e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066



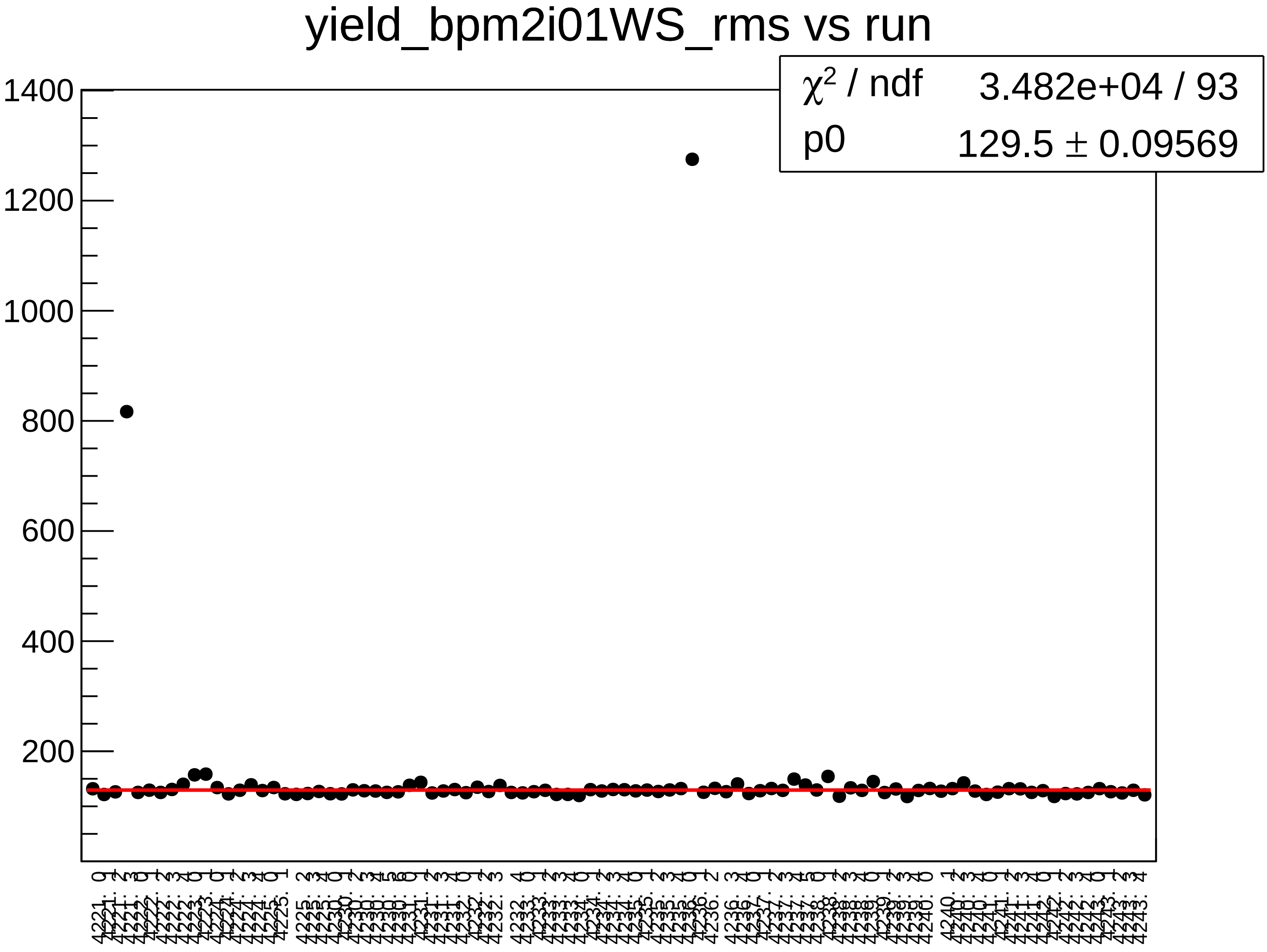
yield_bcm0l02_mean vs run
χ^2 / ndf 1.988e+06 / 93
p0 68.79 ± 0.0002904
pull
Entries 94
Mean −2102
Std Dev 2157
pull1D
Entries 94
Mean 4.503
Std Dev 2.982



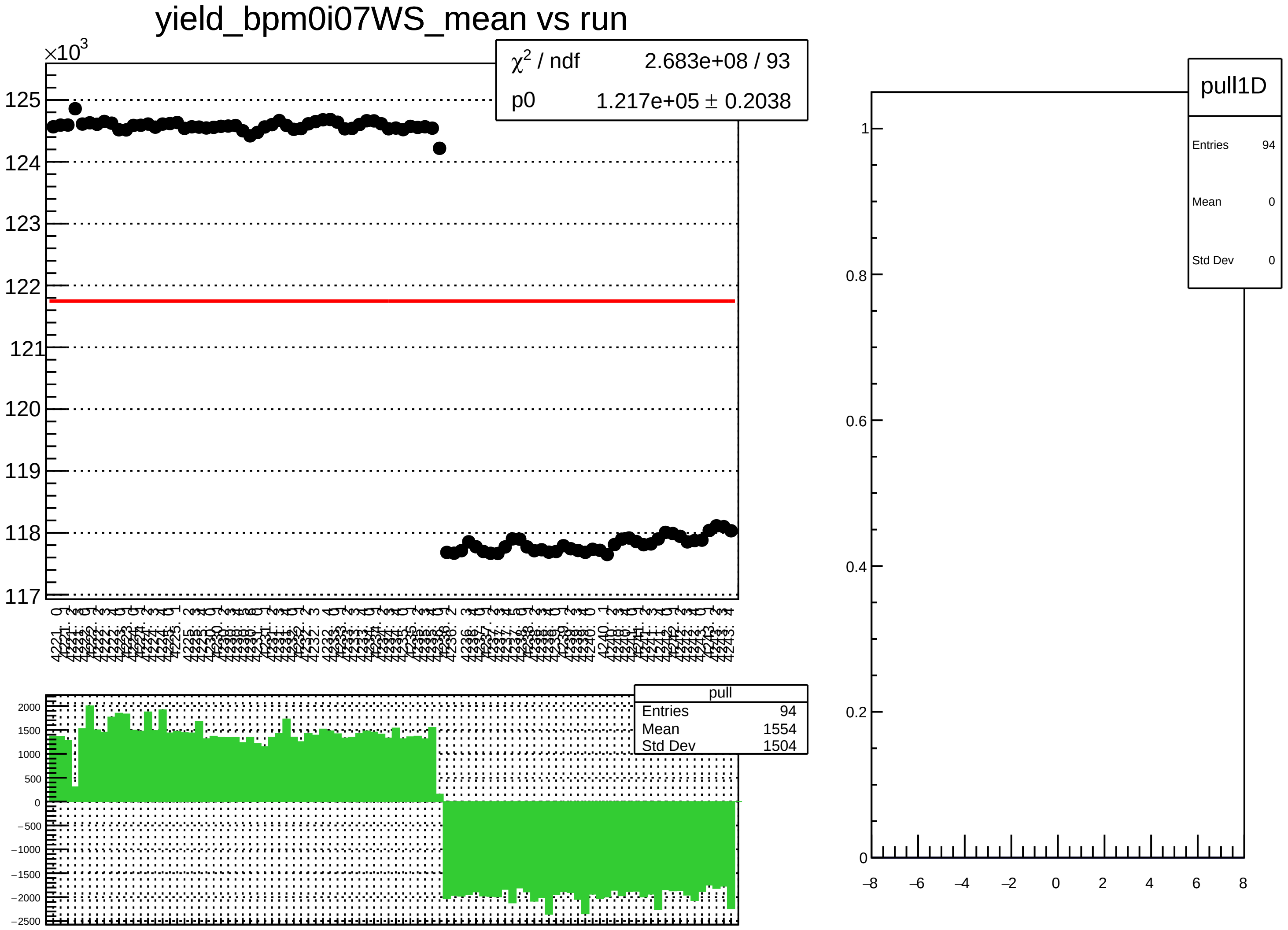
yield_bcm0l02_rms vs run
χ2 / ndf 6.866e+04 / 93
p0 0.2753 ± 0.0002053
0.5
0.45
0.4
0.35
0.3
0.25
0.2



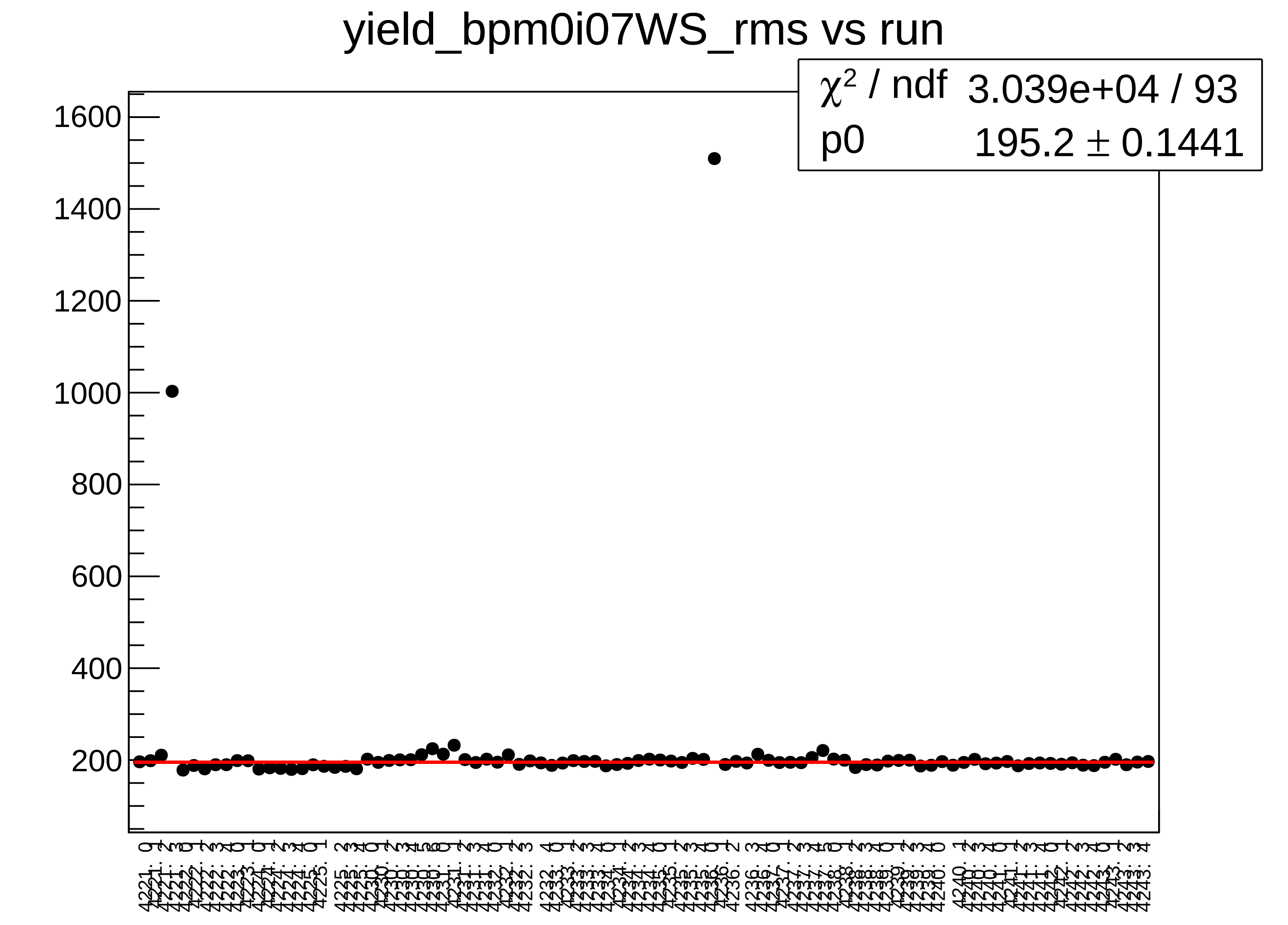
yield_bpm2i01WS_mean vs run
×10^3
χ2 / ndf 4.34e+08 / 93
p0 1.115e+05 ± 0.1353
pull
Entries 94
Mean 2325
Std Dev 2276
pull1D
Entries 94
Mean 0
Std Dev 0



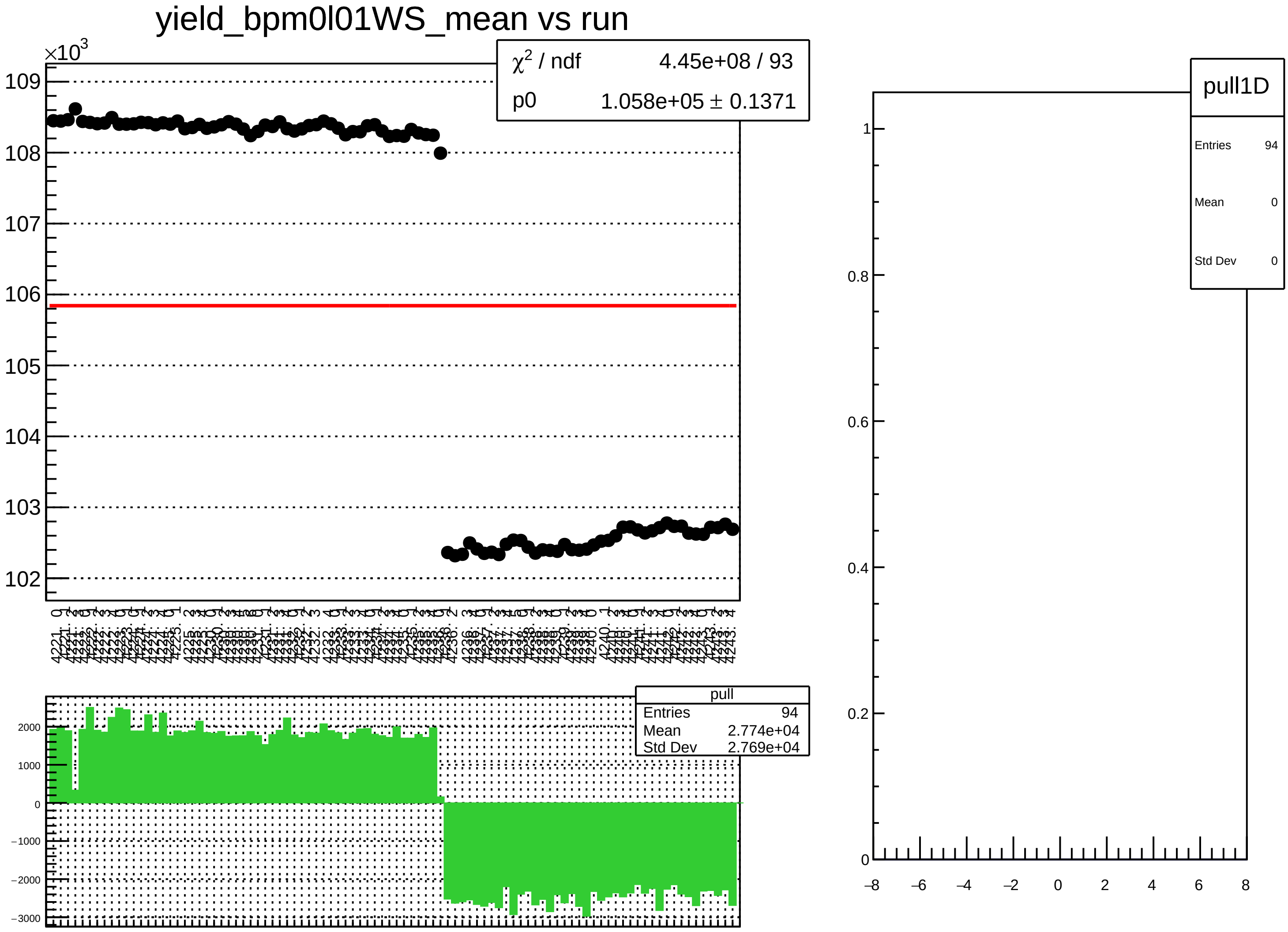
yield_bpm2i01WS_rms vs run
χ^2 / ndf 3.482e+04 / 93
p0 129.5 ± 0.09569
1400
1200
1000
800
600
400
200



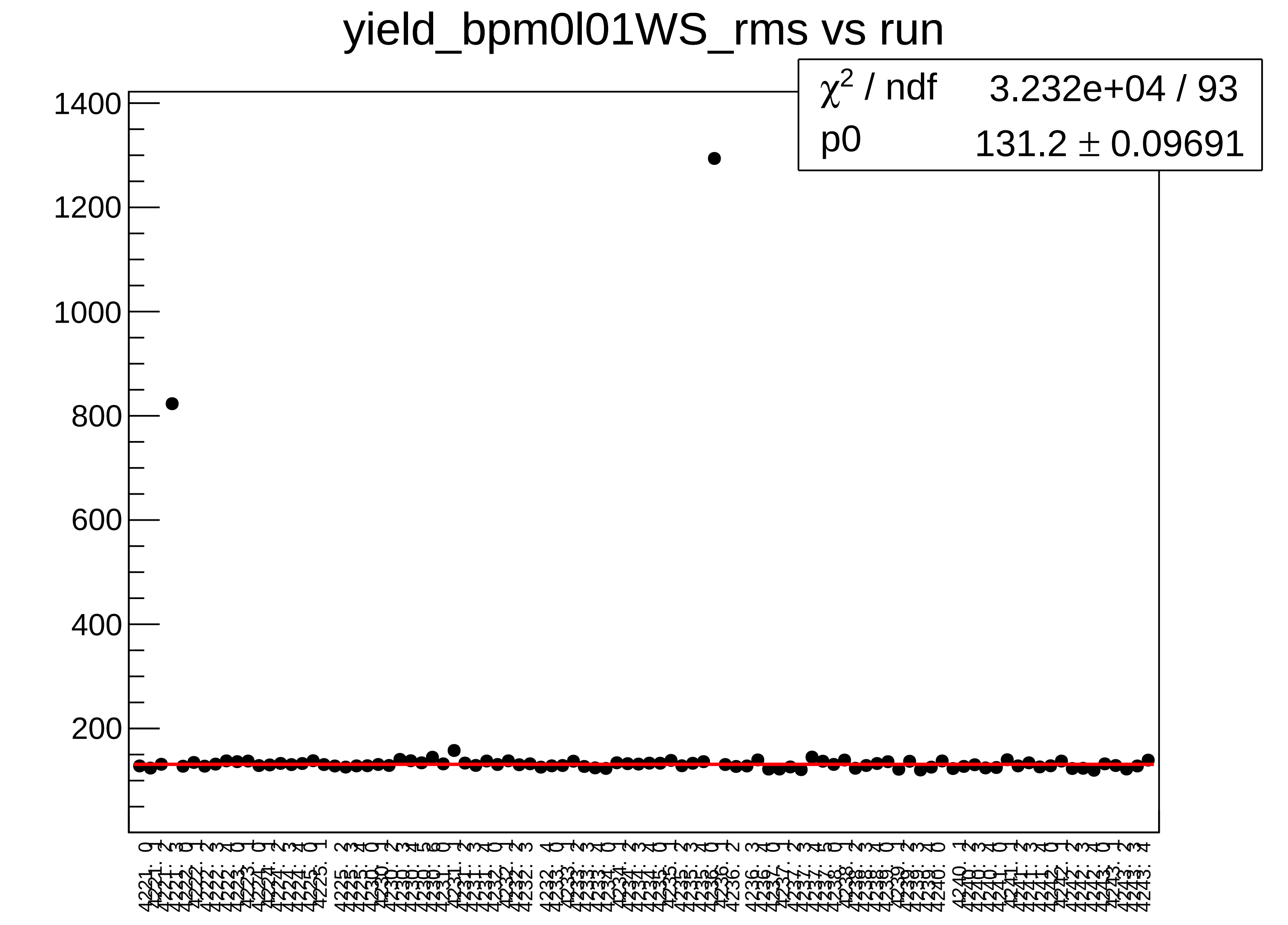
yield_bpm0i07WS_mean vs run
$\times10^{3}$
χ^2 / ndf 2.683e+08 / 93
p0 1.217e+05 ± 0.2038
125
124
123
122
121
120
119
118
117
pull
Entries 94
Mean 1554
Std Dev 1504
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



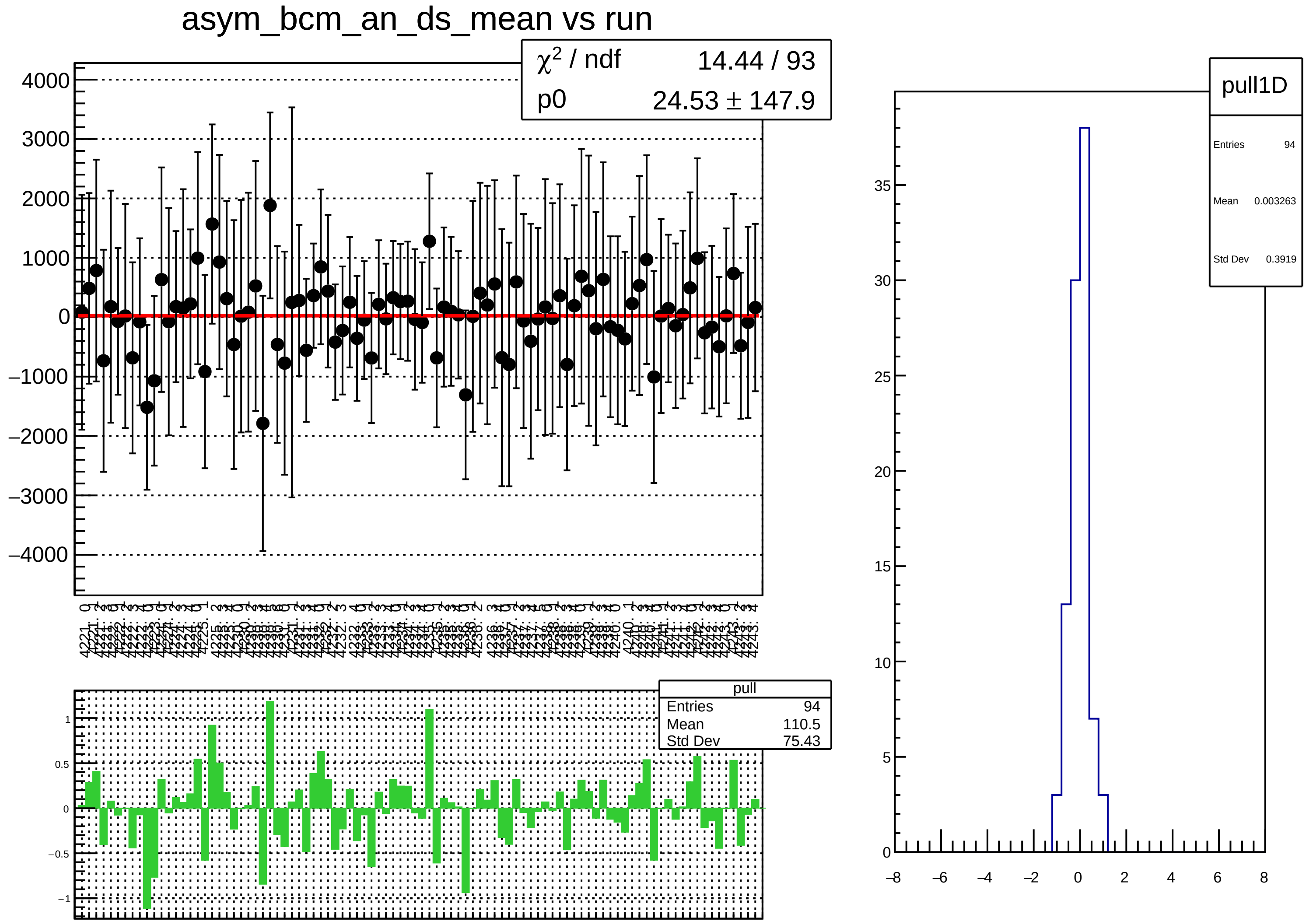
yield_bpm0i07WS_rms vs run
χ^2 / ndf 3.039e+04 / 93
p0 195.2 ± 0.1441
1600
1400
1200
1000
800
600
400
200



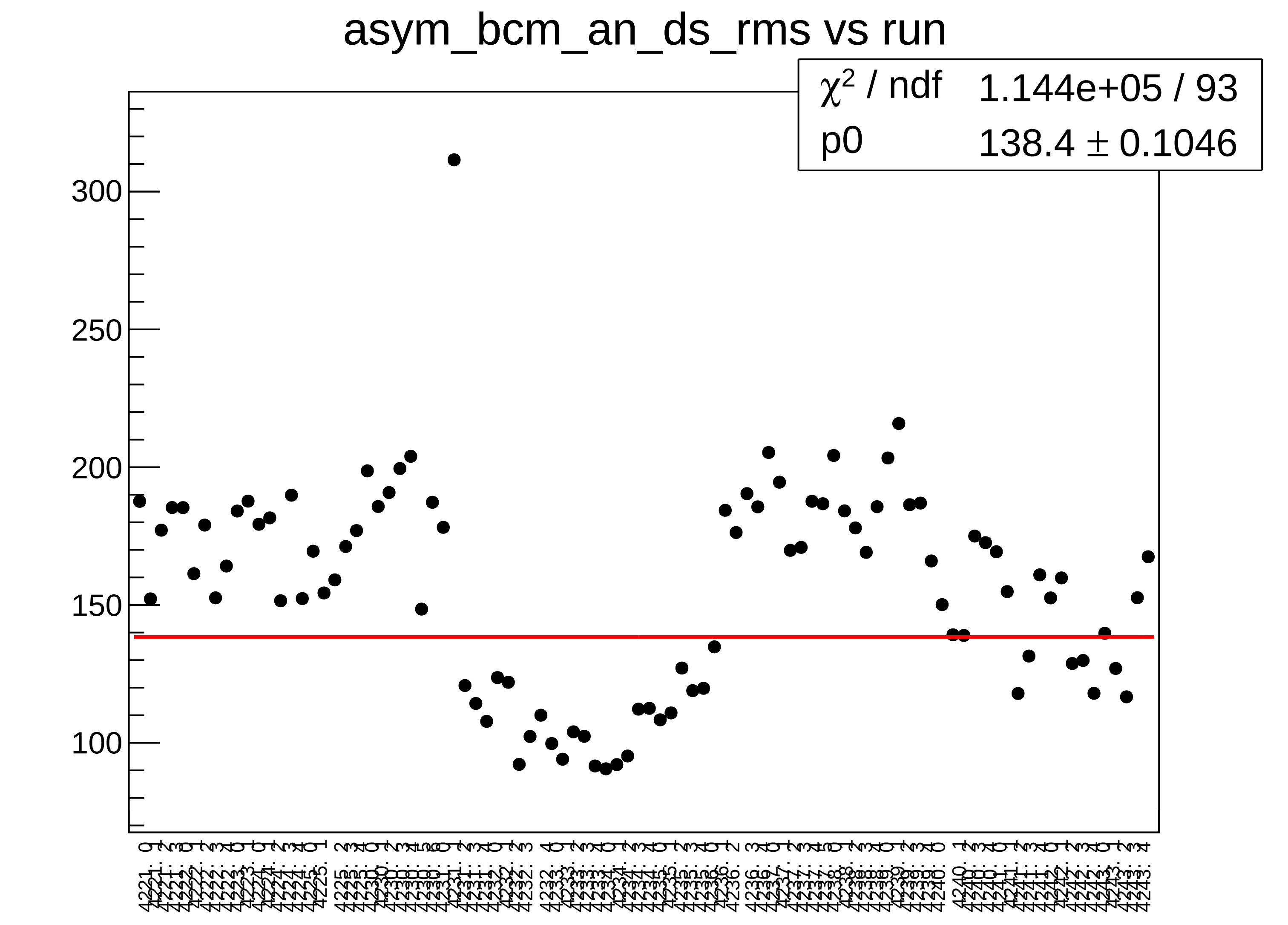
yield_bpm0l01WS_mean vs run
χ2 / ndf 4.45e+08 / 93
p0 1.058e+05 ± 0.1371
pull
Entries 94
Mean 2.774e+04
Std Dev 2.769e+04
pull1D
Entries 94
Mean 0
Std Dev 0

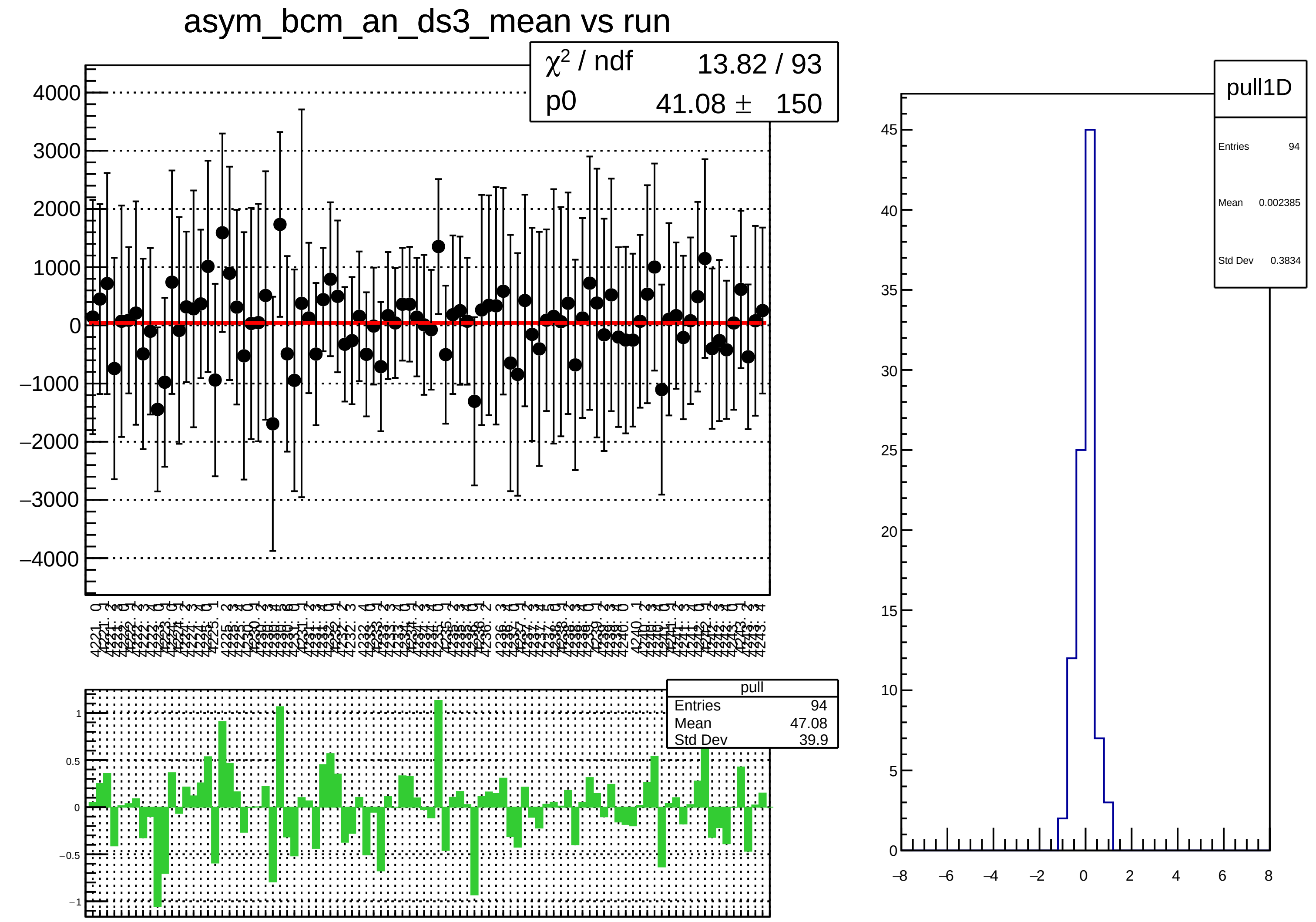


yield_bpm0l01WS_rms vs run
χ^2 / ndf 3.232e+04 / 93
p0 131.2 ± 0.09691
1400
1200
1000
800
600
400
200

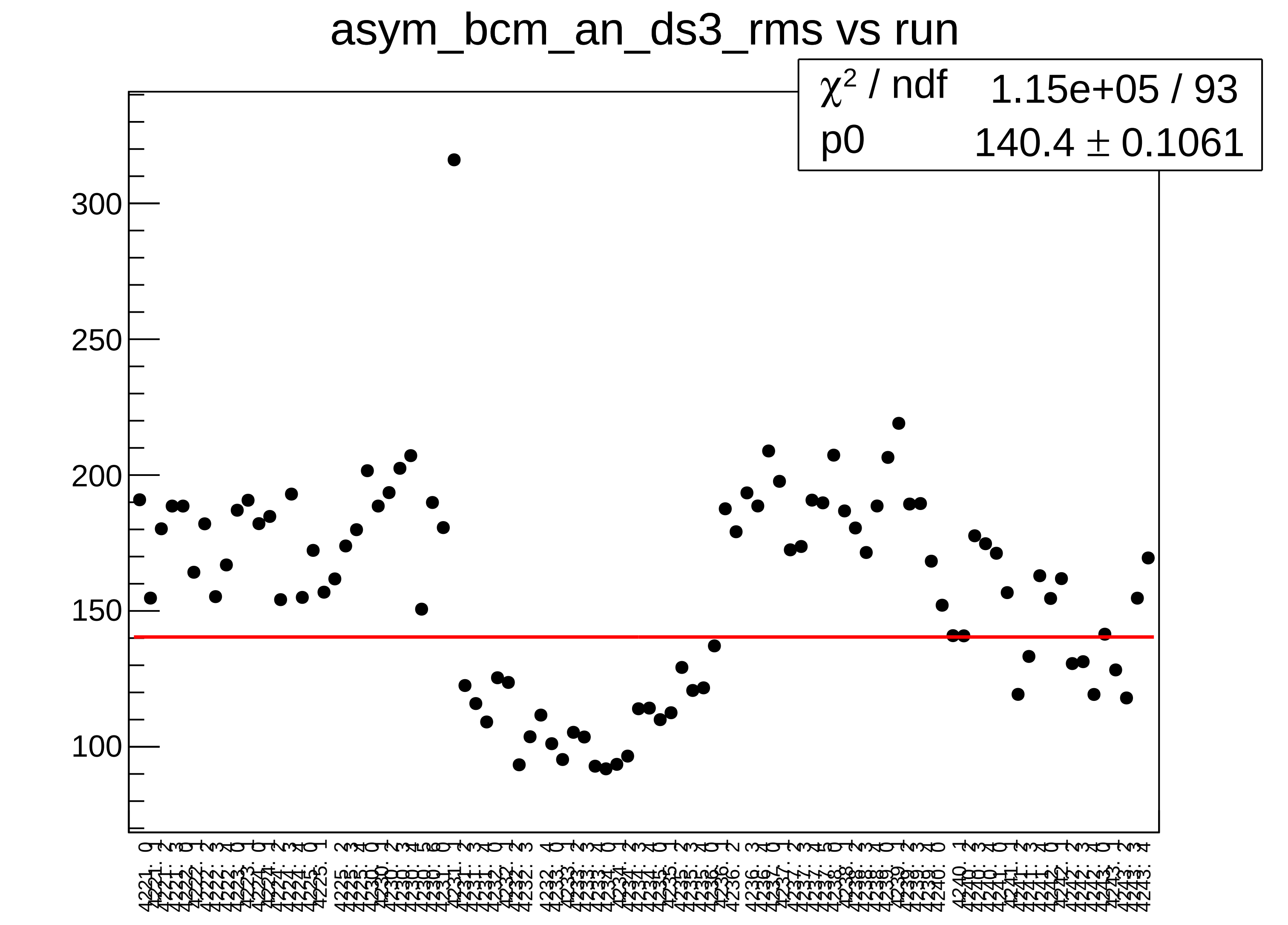


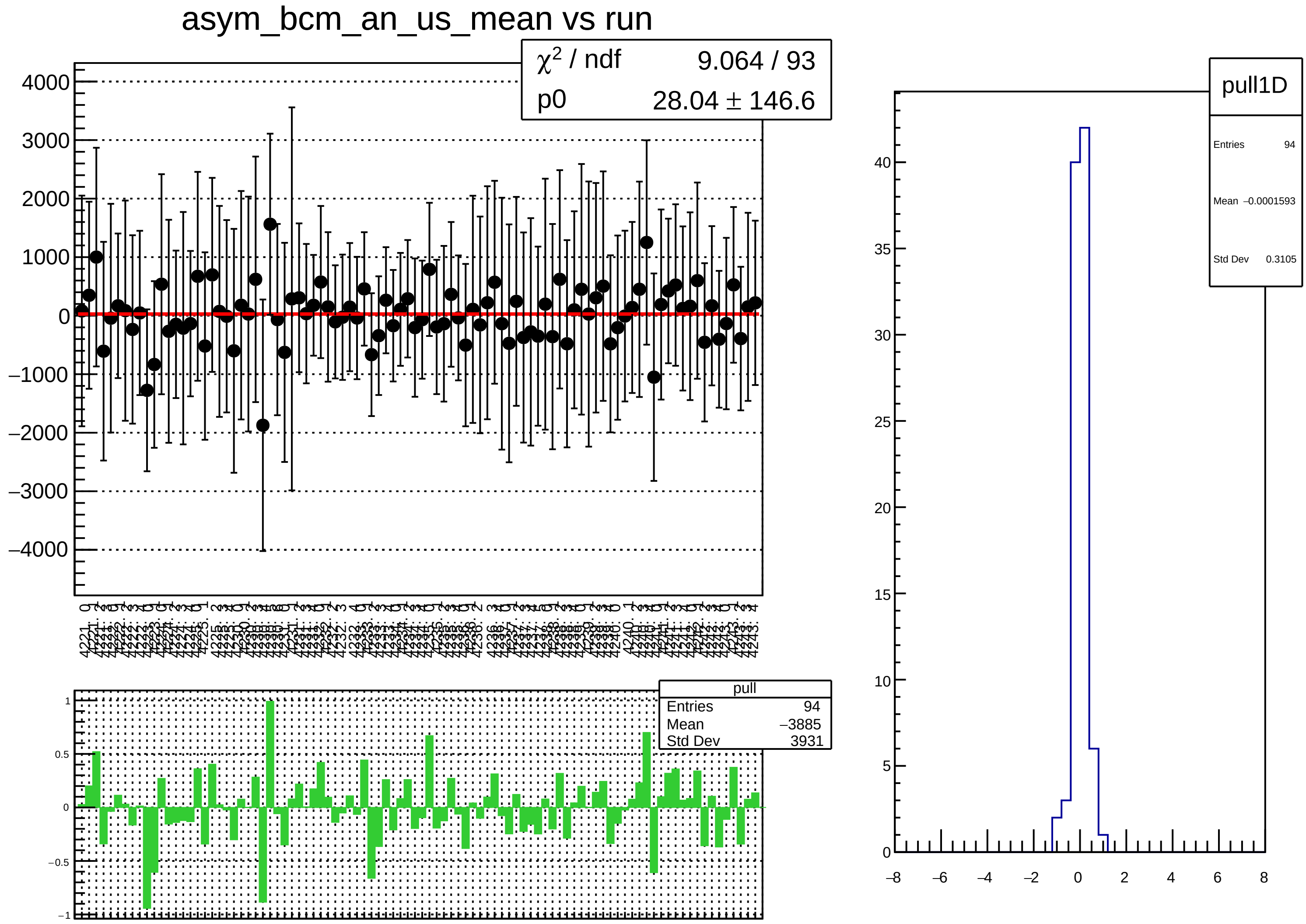
asym_bcm_an_ds_mean vs run
χ2 / ndf 14.44 / 93
p0 24.53 ± 147.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean 110.5
Std Dev 75.43
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.003263
Std Dev 0.3919
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_ds_rms vs run
χ2 / ndf 1.144e+05 / 93
p0 138.4 ± 0.1046
300
250
200
150
100

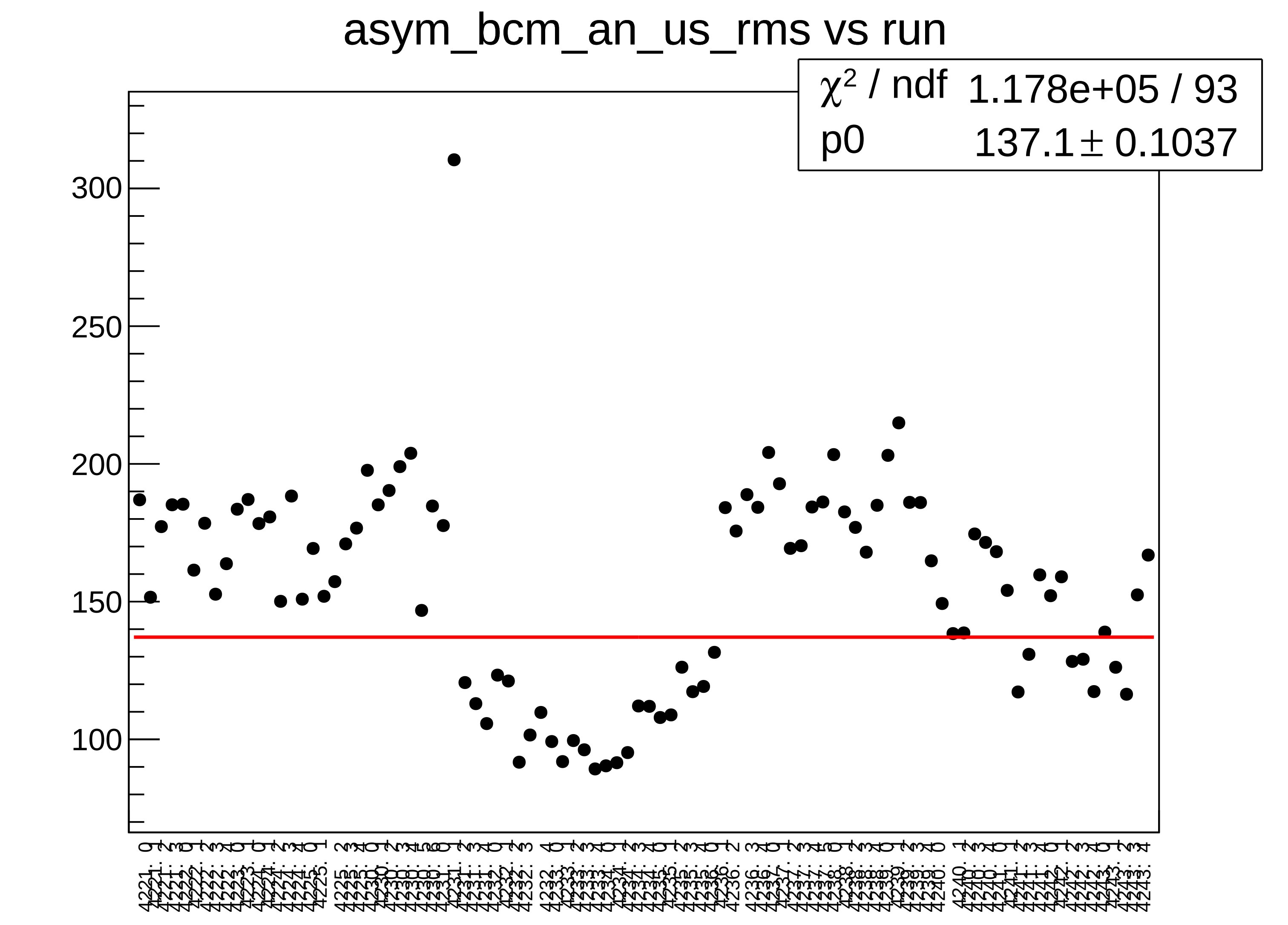


asym_bcm_an_ds3_mean vs run
χ^2 / ndf 13.82 / 93
p0 41.08 ± 150
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean 47.08
Std Dev 39.9
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.002385
Std Dev 0.3834
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

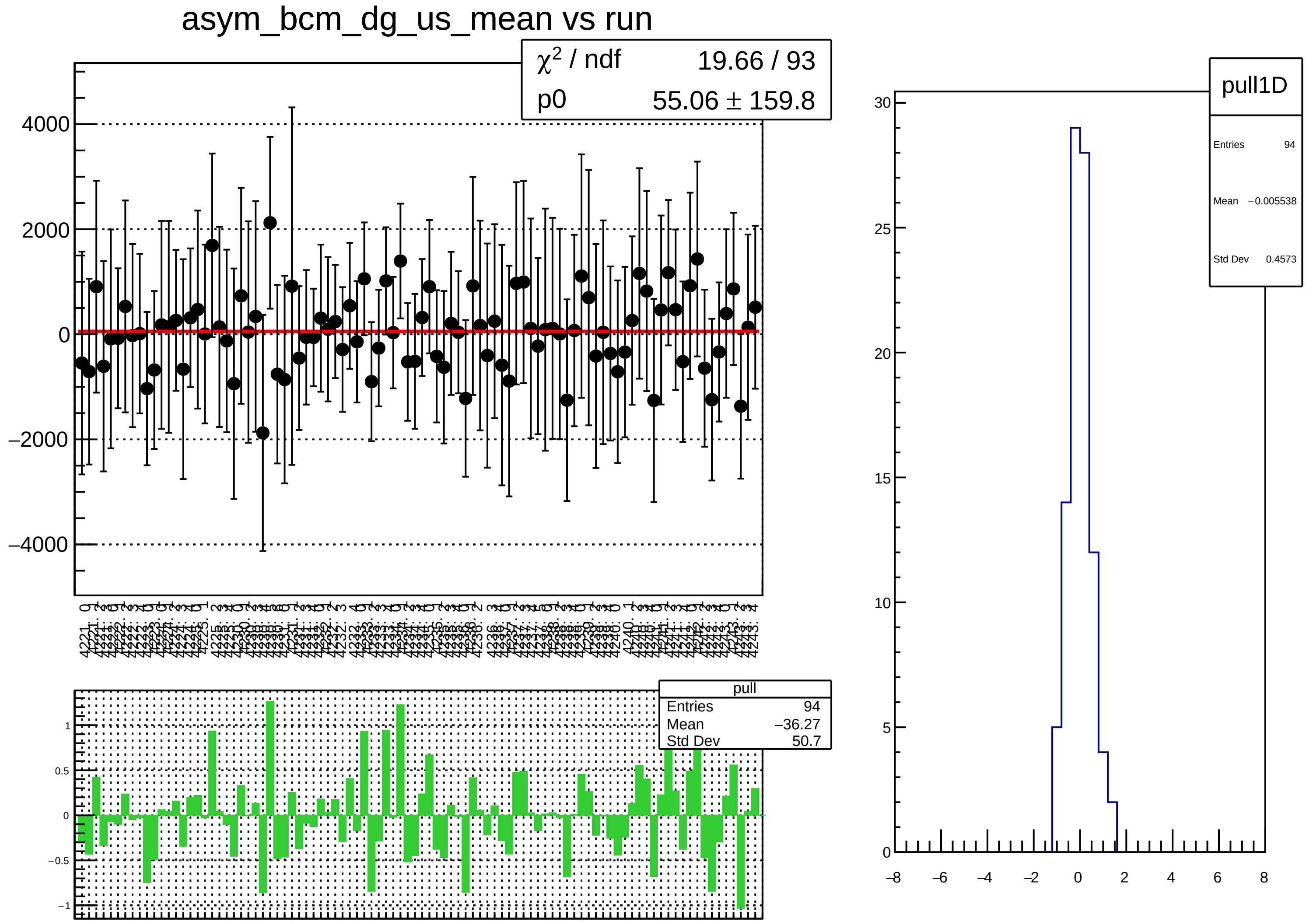

asym_bcm_an_ds3_rms vs run
χ2 / ndf 1.15e+05 / 93
p0 140.4 ± 0.1061
300
250
200
150
100



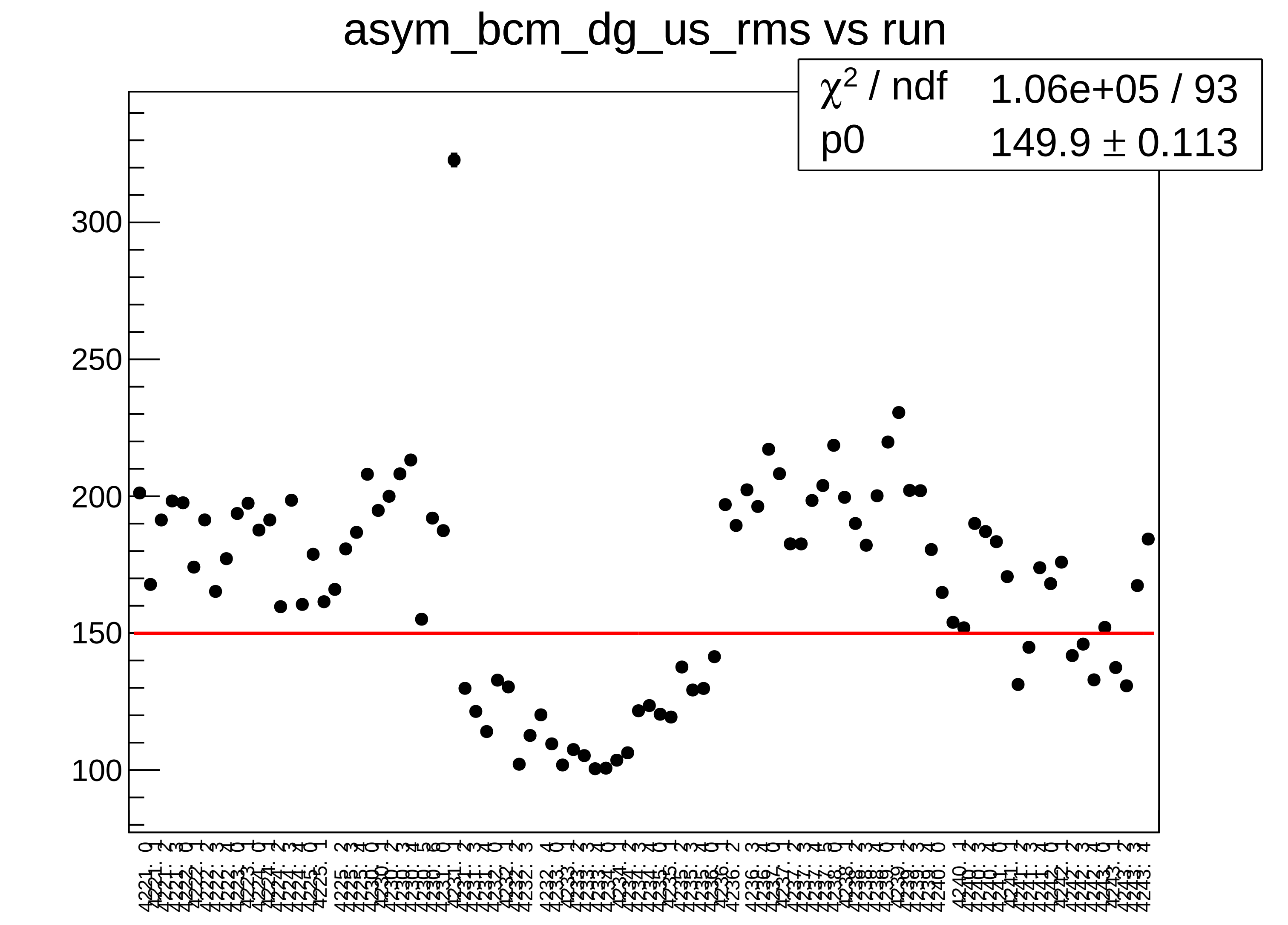
asym_bcm_an_us_mean vs run
χ^2 / ndf 9.064 / 93
p0 28.04 ± 146.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean −3885
Std Dev 3931
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.0001593
Std Dev 0.3105
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



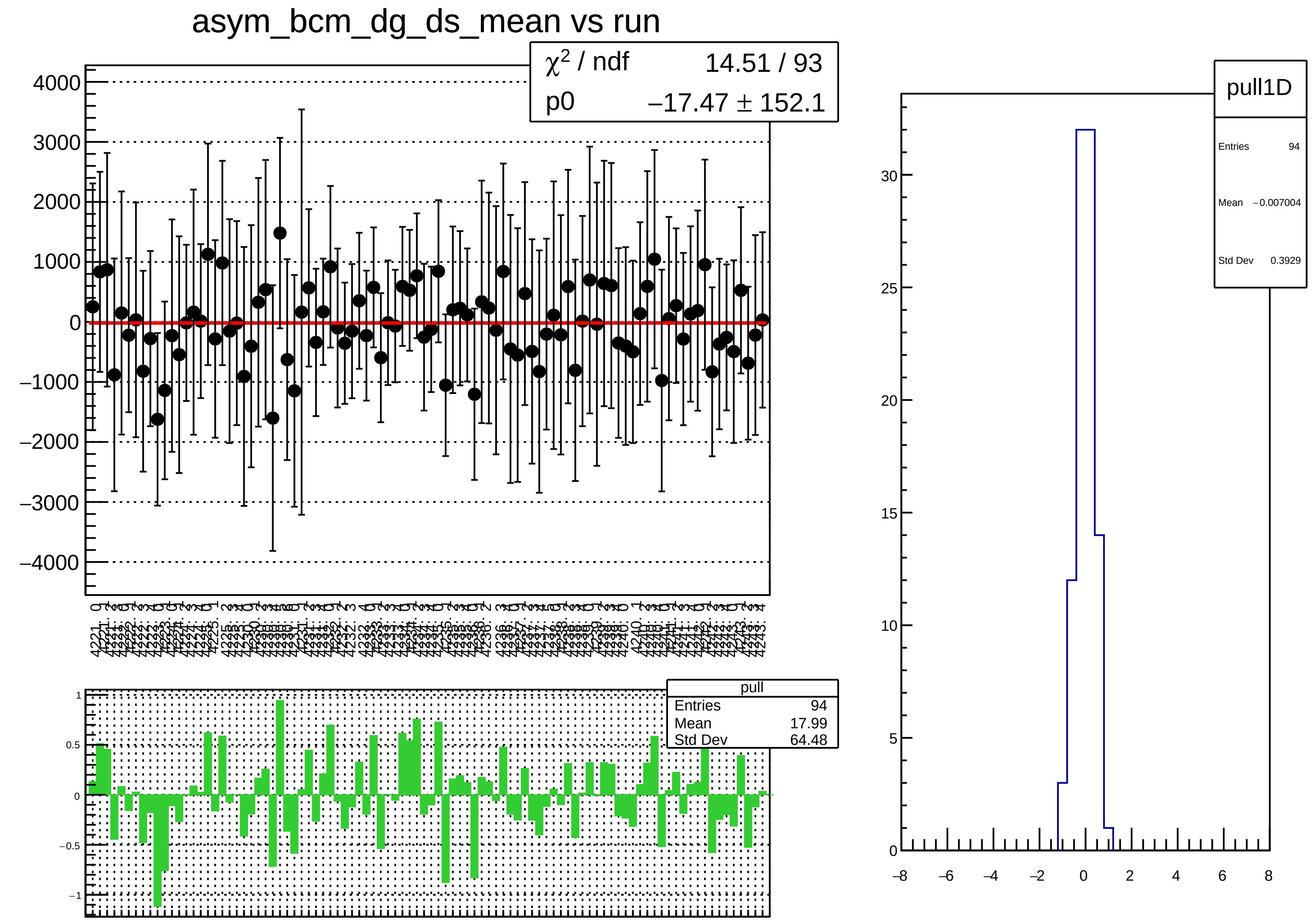
asym_bcm_an_us_rms vs run
χ2 / ndf 1.178e+05 / 93
p0 137.1 ± 0.1037
300
250
200
150
100



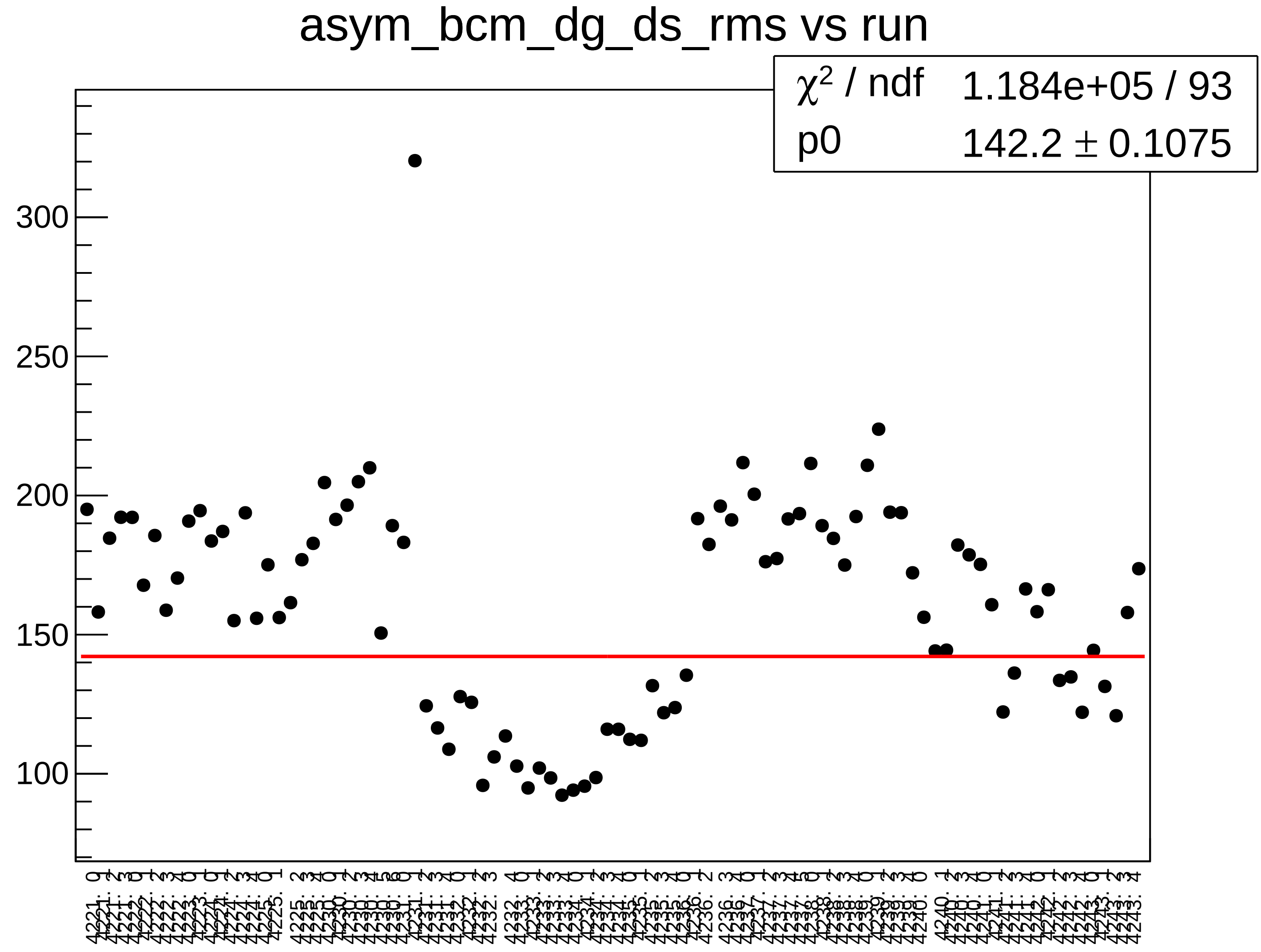
asym_bcm_dg_us_mean vs run
χ^2 / ndf 19.66 / 93
p0 55.06 ± 159.8
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −36.27
Std Dev 50.7
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.005538
Std Dev 0.4573
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



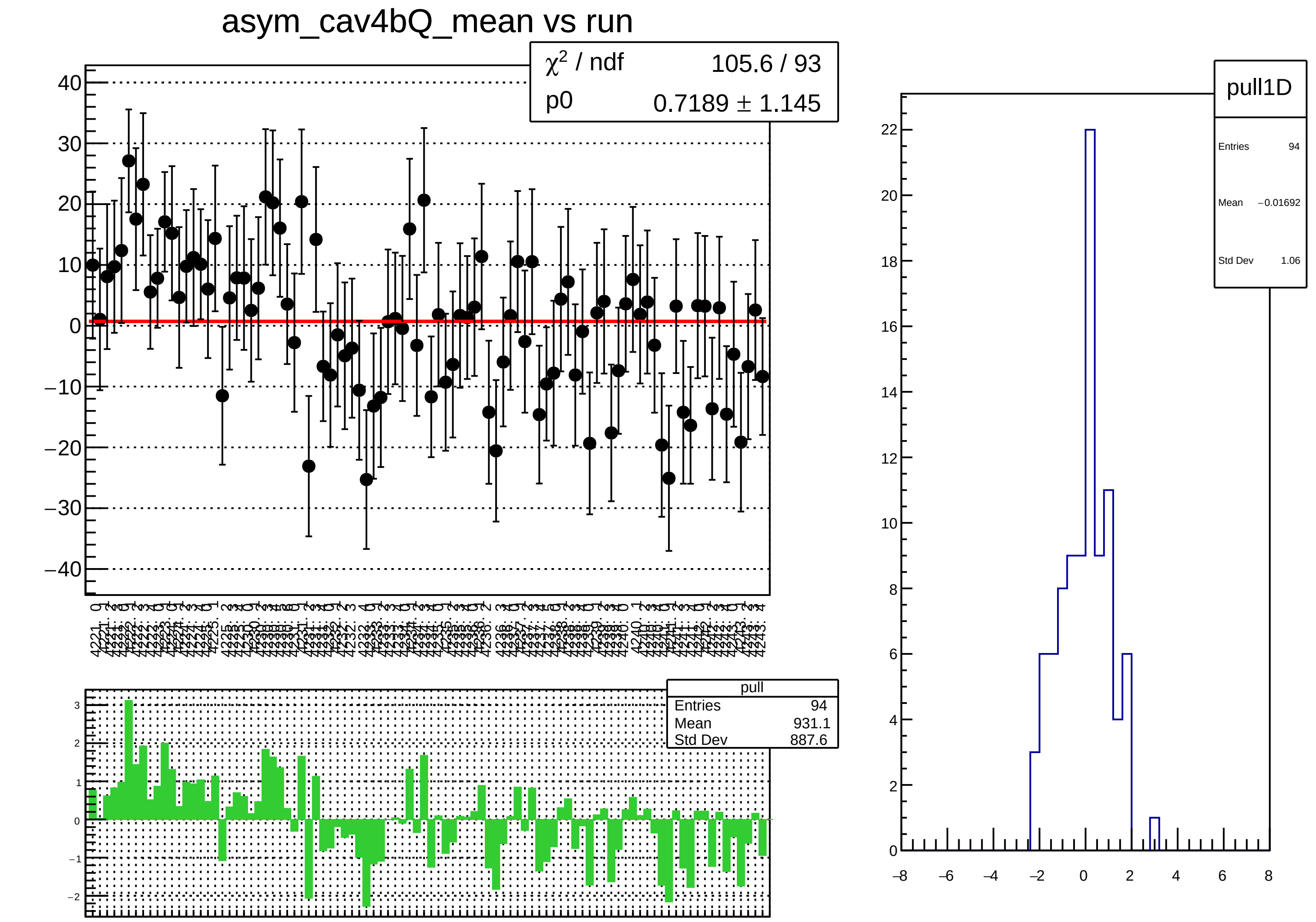
asym_bcm_dg_us_rms vs run
χ^2 / ndf 1.06e+05 / 93
p0 149.9 ± 0.113
300
250
200
150
100



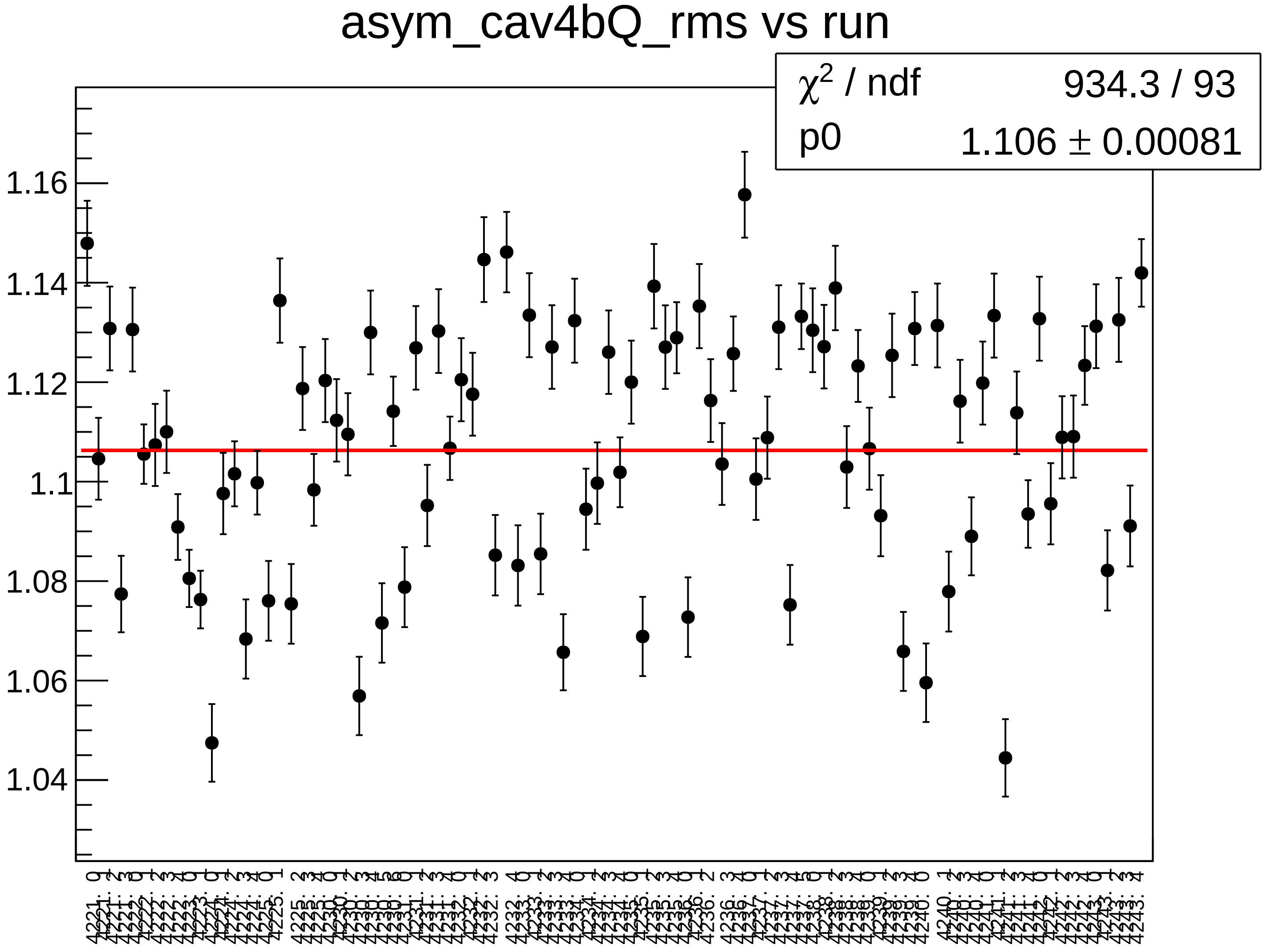
asym_bcm_dg_ds_mean vs run
χ^2 / ndf 14.51 / 93
p0 −17.47 ± 152.1
pull
Entries 94
Mean 17.99
Std Dev 64.48
pull1D
Entries 94
Mean −0.007004
Std Dev 0.3929



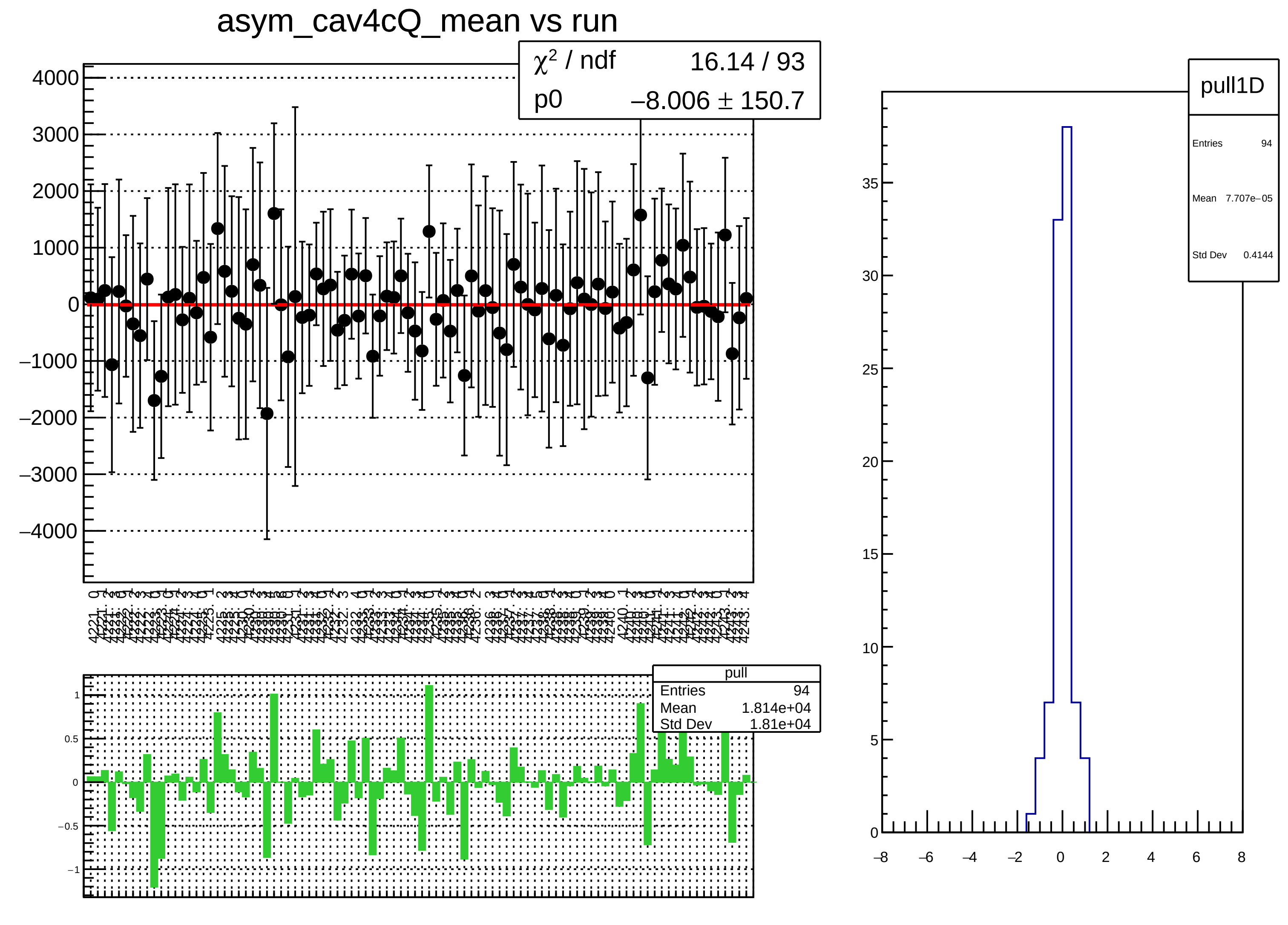
asym_bcm_dg_ds_rms vs run
χ^2 / ndf 1.184e+05 / 93
p0 142.2 ± 0.1075
300
250
200
150
100



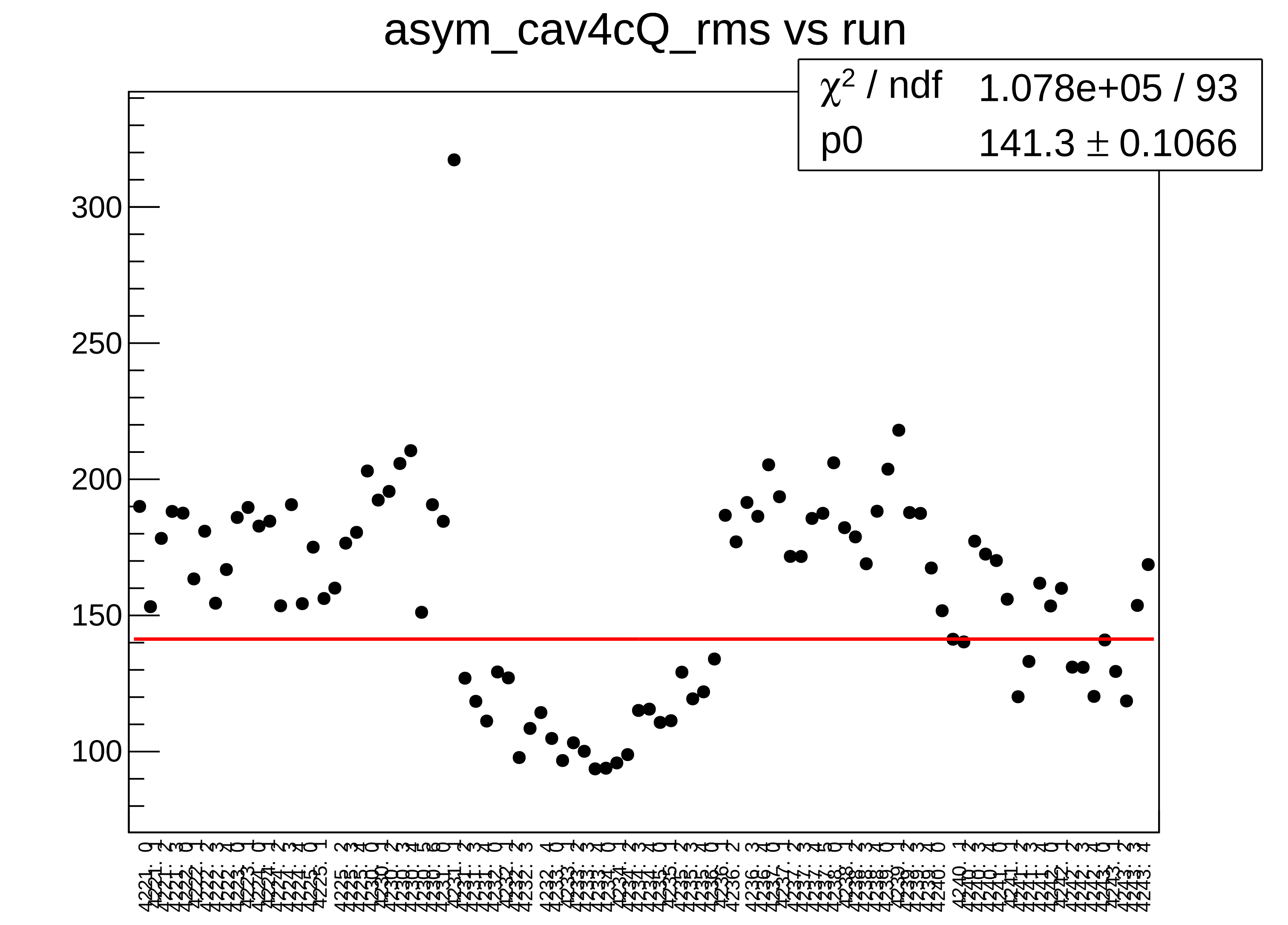
asym_cav4bQ_mean vs run
χ^2 / ndf 105.6 / 93
p0 0.7189 ± 1.145
pull
Entries 94
Mean 931.1
Std Dev 887.6
pull1D
Entries 94
Mean −0.01692
Std Dev 1.06



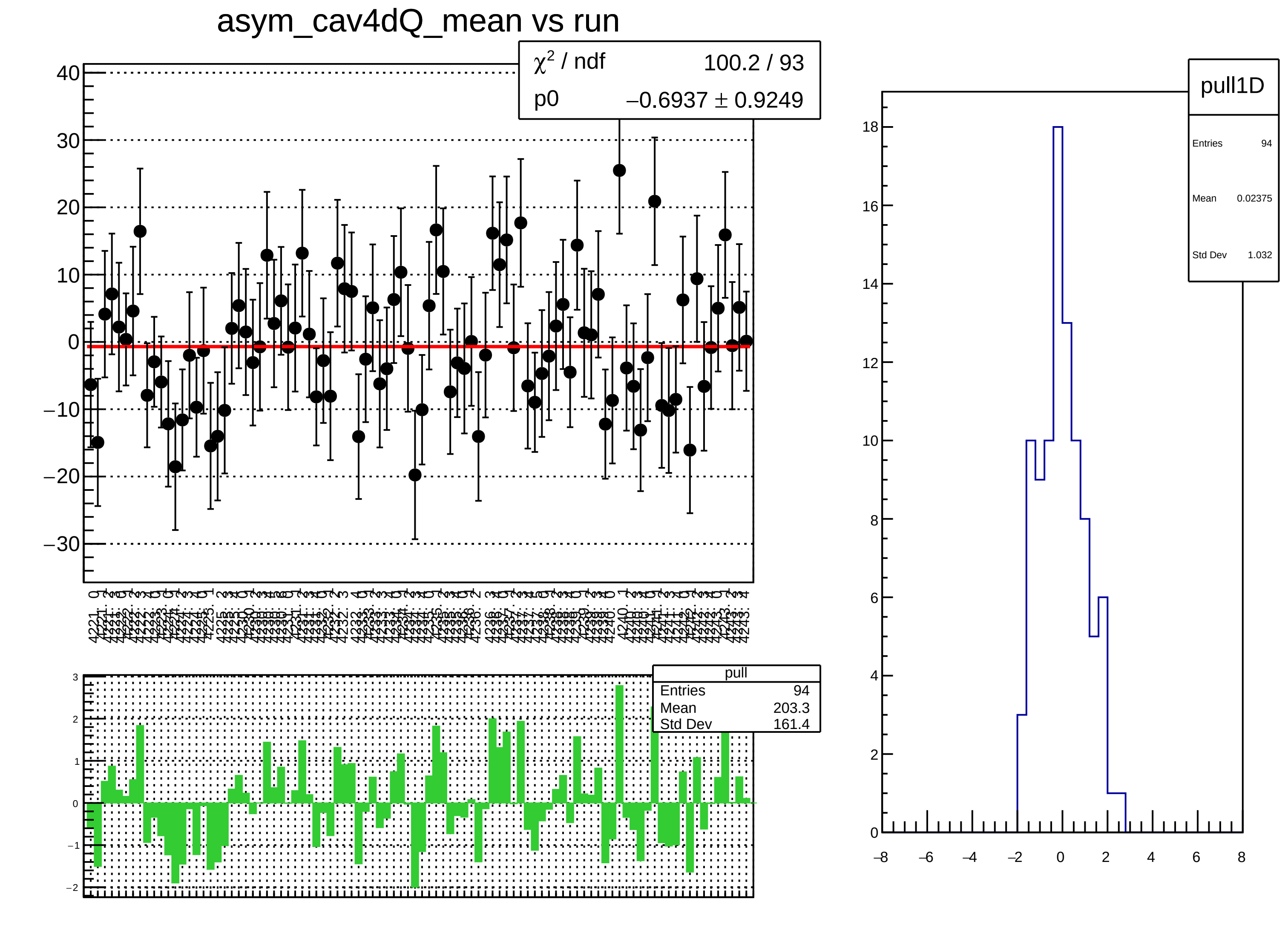
asym_cav4bQ_rms vs run
χ^2 / ndf 934.3 / 93
p0 1.106 ± 0.00081
1.16
1.14
1.12
1.1
1.08
1.06
1.04



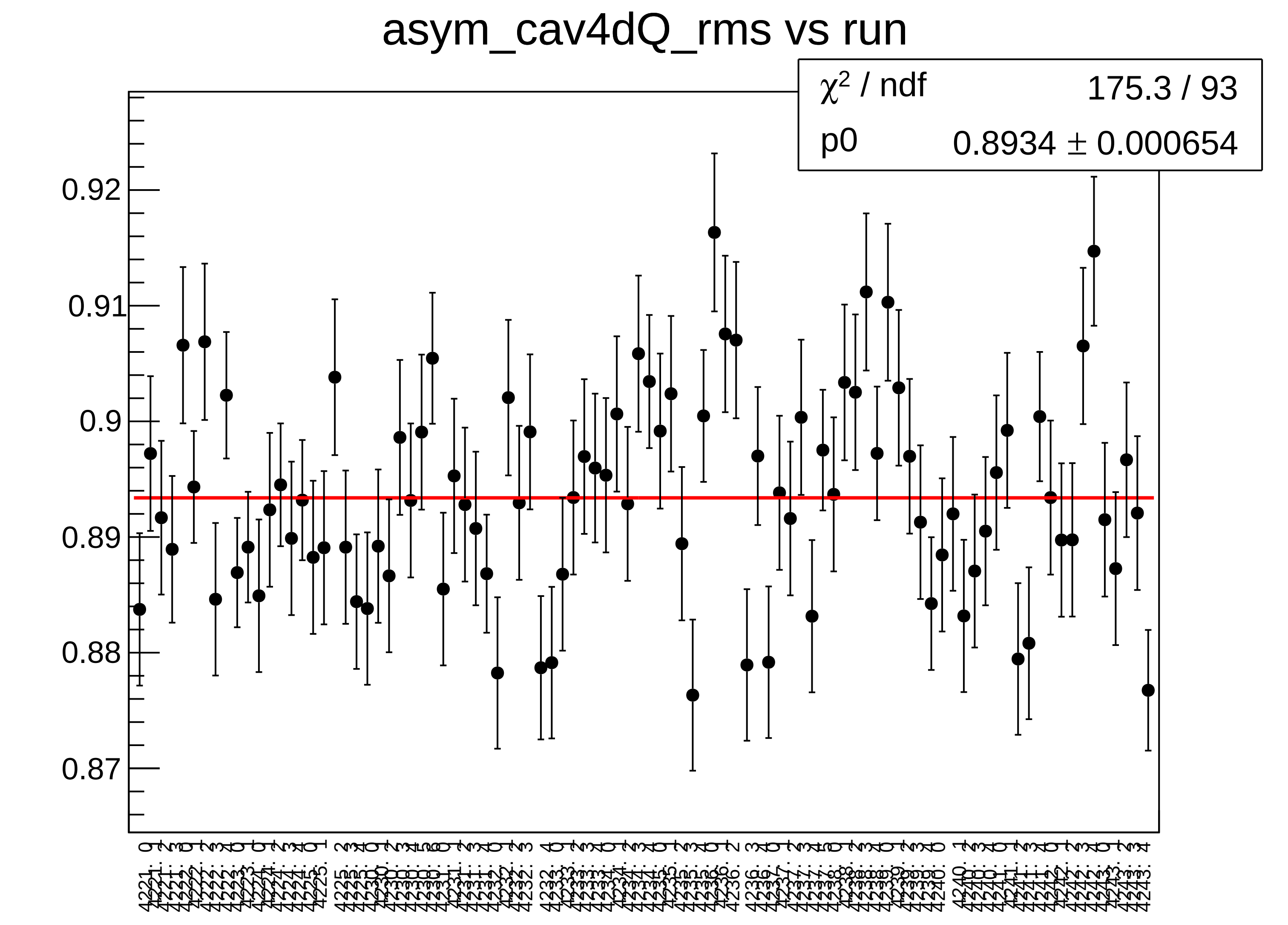
asym_cav4cQ_mean vs run
χ2 / ndf 16.14 / 93
p0 −8.006 ± 150.7
pull
Entries 94
Mean 1.814e+04
Std Dev 1.81e+04
pull1D
Entries 94
Mean 7.707e−05
Std Dev 0.4144



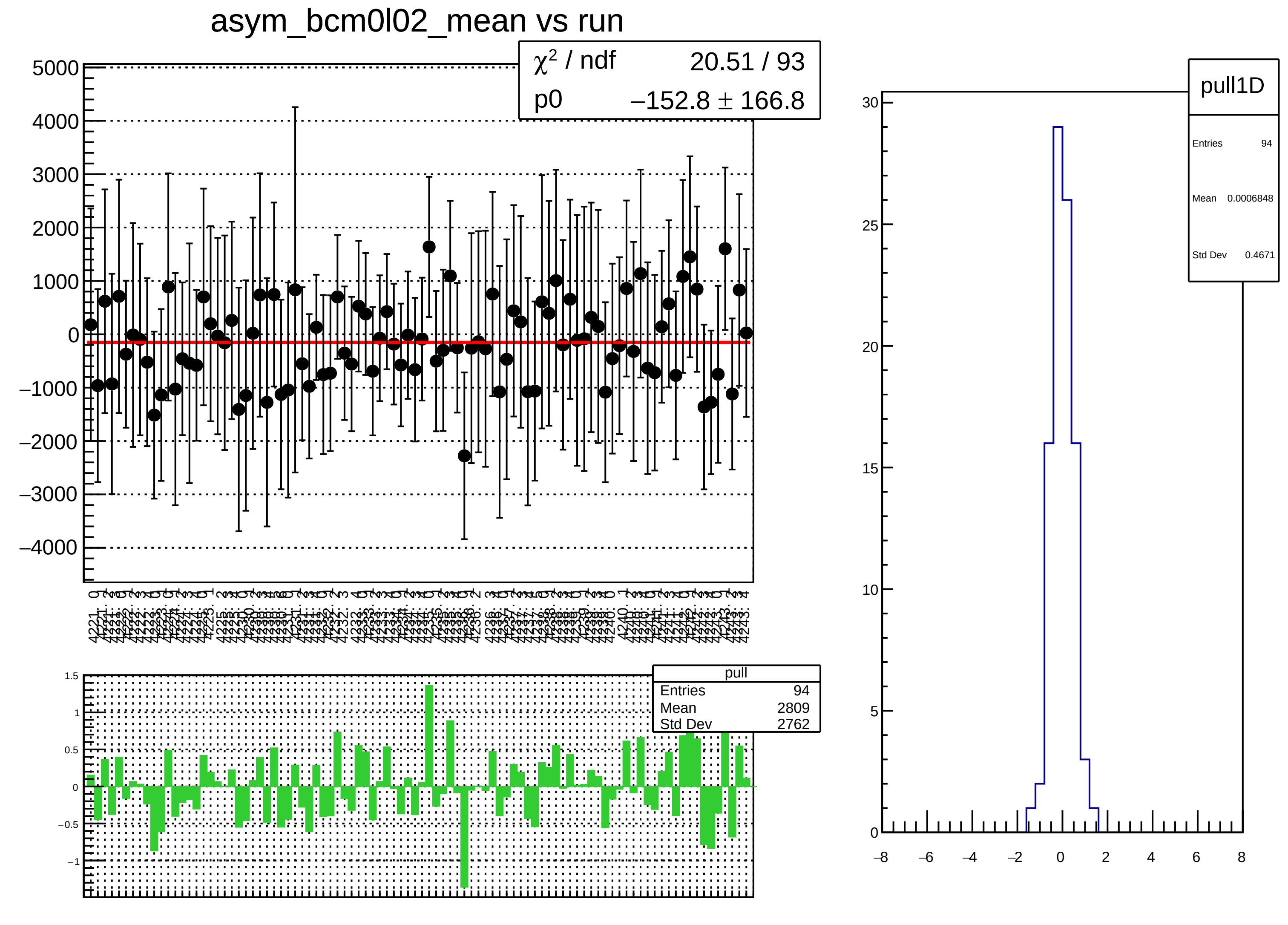
asym_cav4cQ_rms vs run
χ^2 / ndf 1.078e+05 / 93
p0 141.3 ± 0.1066
300
250
200
150
100



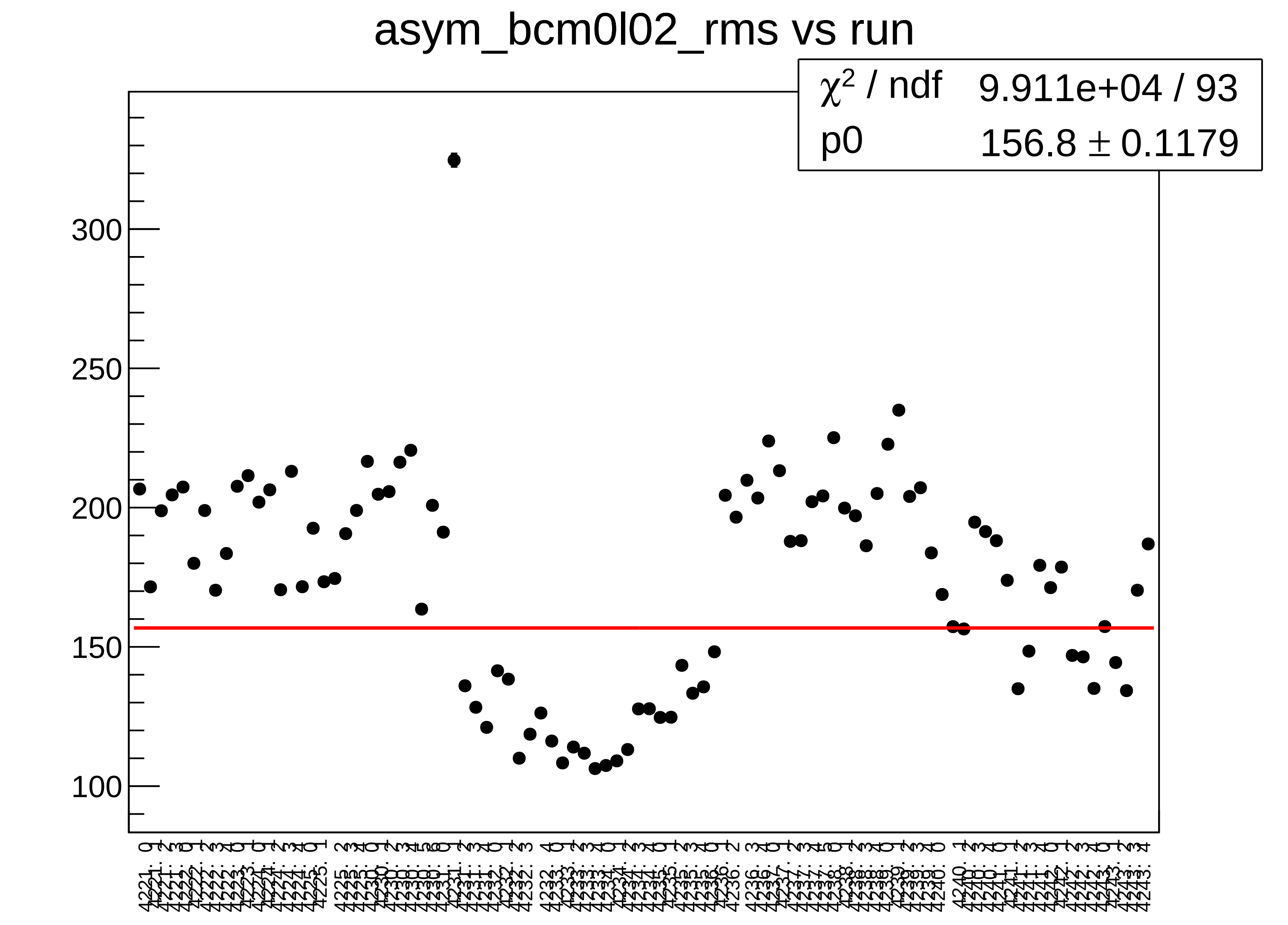
asym_cav4dQ_mean vs run
χ^2 / ndf 100.2 / 93
p0 −0.6937 ± 0.9249
pull
Entries 94
Mean 203.3
Std Dev 161.4
pull1D
Entries 94
Mean 0.02375
Std Dev 1.032



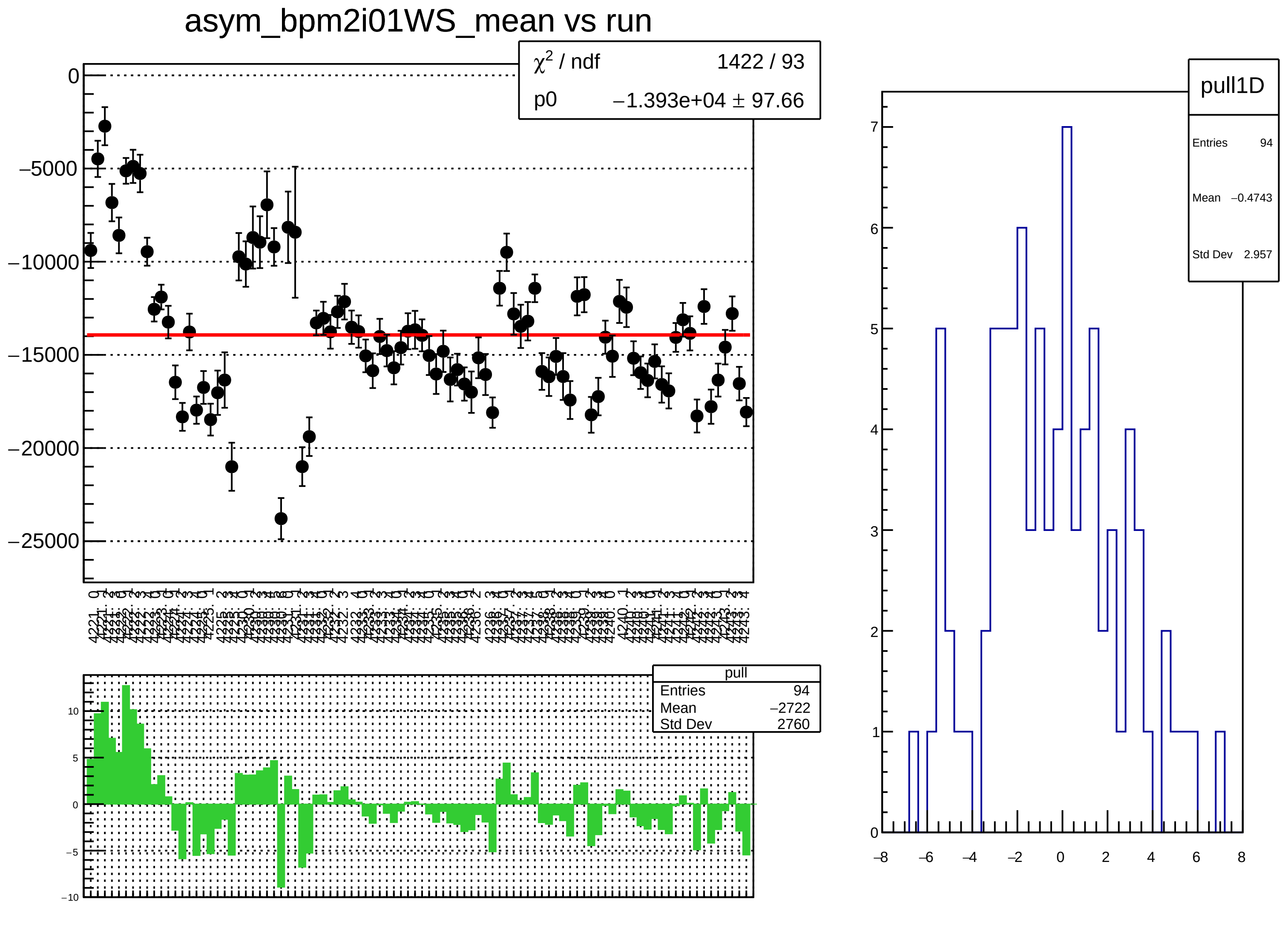
asym_cav4dQ_rms vs run
χ^2 / ndf 175.3 / 93
p0 0.8934 ± 0.000654
0.92
0.91
0.9
0.89
0.88
0.87



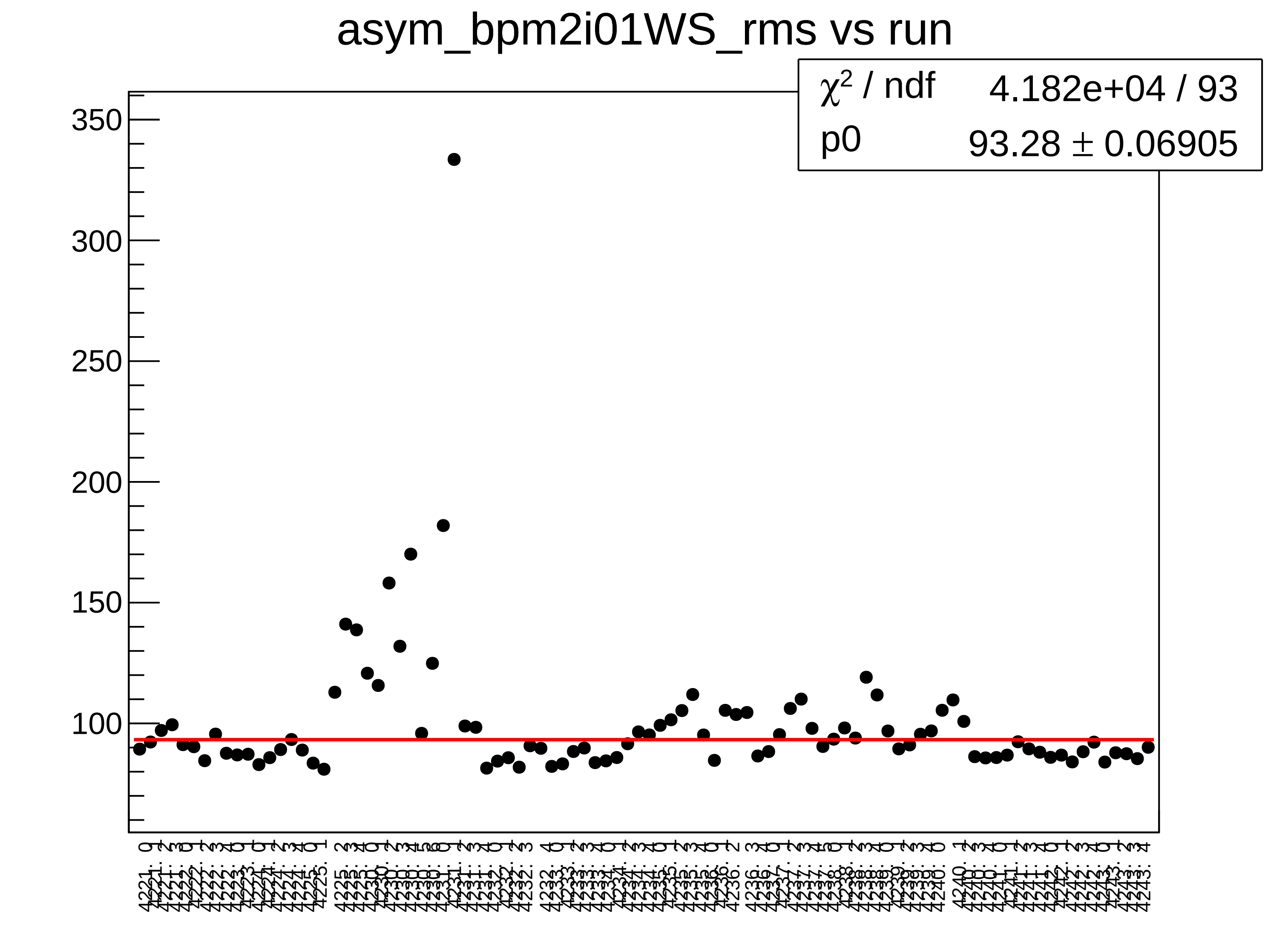
asym_bcm0l02_mean vs run
χ2 / ndf 20.51 / 93
p0 −152.8 ± 166.8
pull
Entries 94
Mean 2809
Std Dev 2762
pull1D
Entries 94
Mean 0.0006848
Std Dev 0.4671

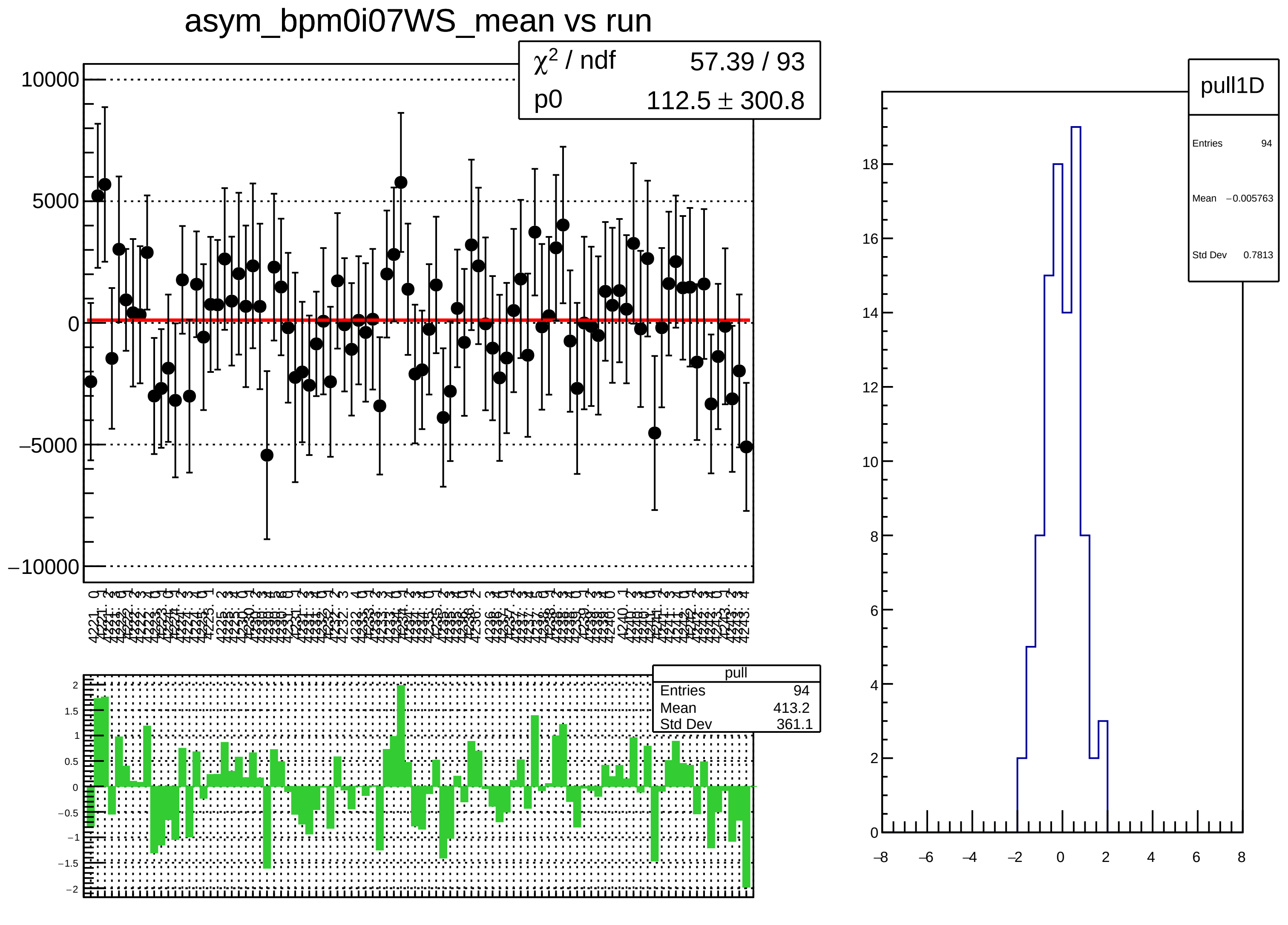


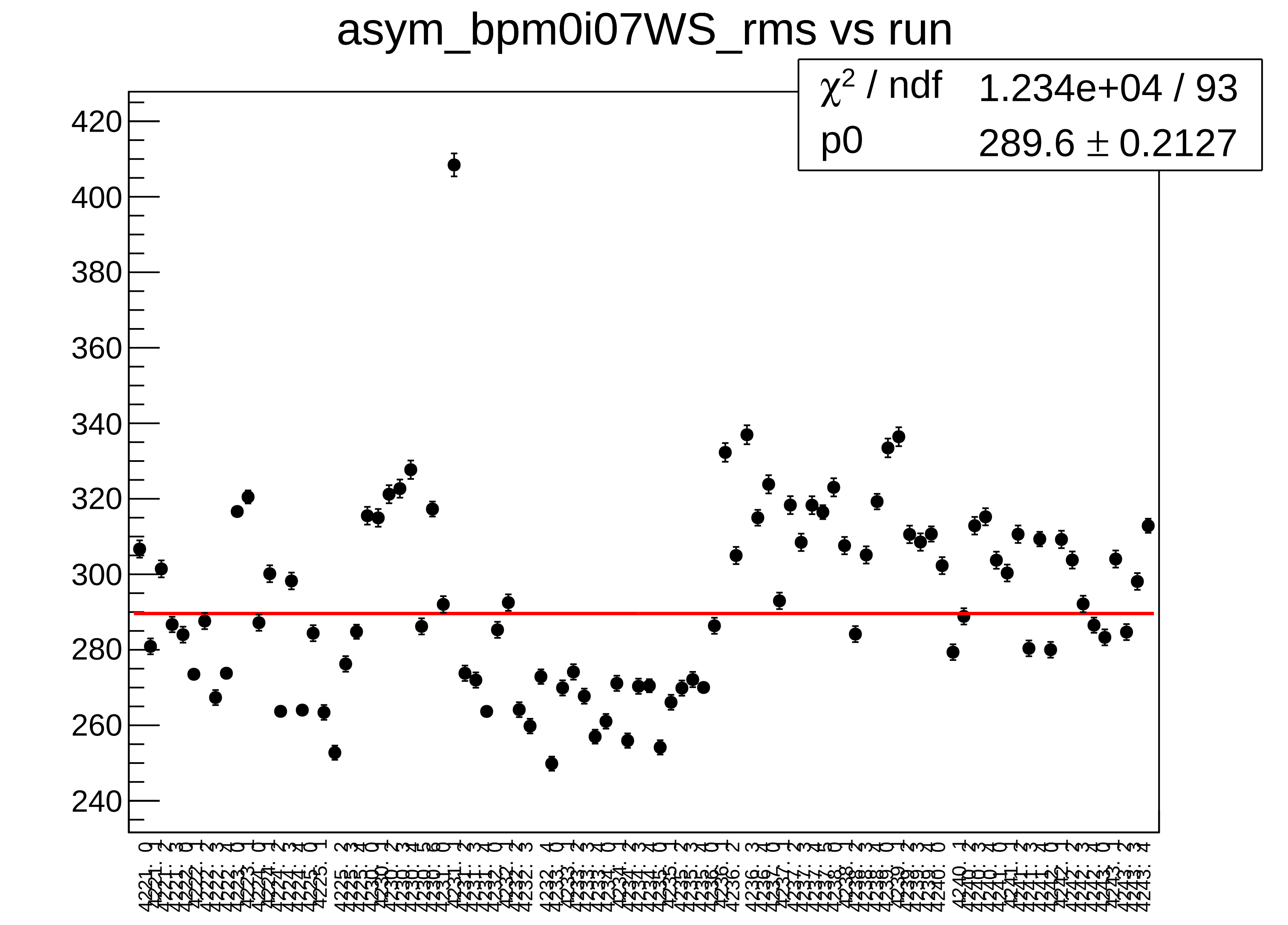
asym_bcm0l02_rms vs run
χ^2 / ndf 9.911e+04 / 93
p0 156.8 ± 0.1179
300
250
200
150
100



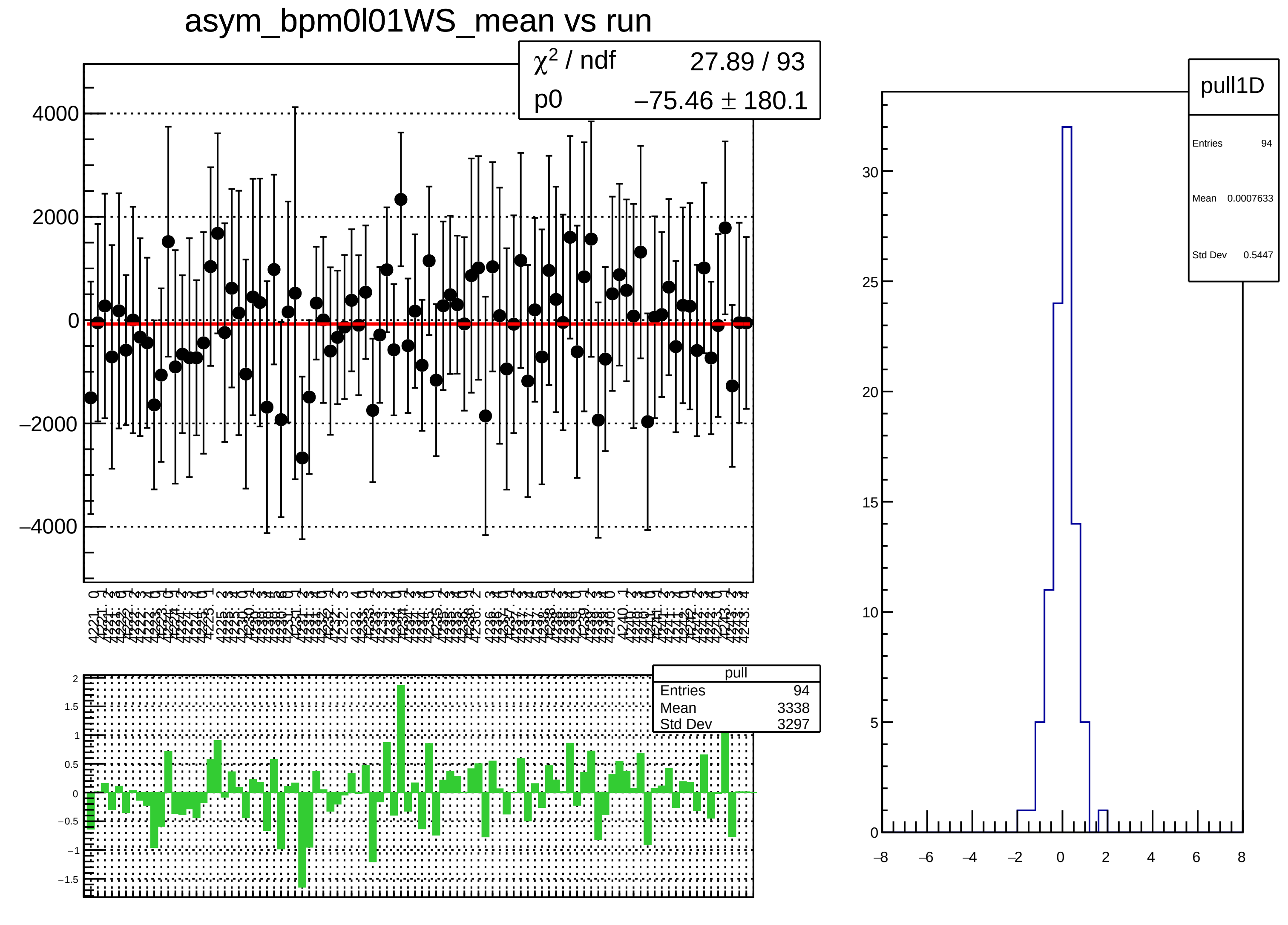
asym_bpm2i01WS_mean vs run
χ^2 / ndf 1422 / 93
p0 −1.393e+04 ± 97.66
pull
Entries 94
Mean −2722
Std Dev 2760
pull1D
Entries 94
Mean −0.4743
Std Dev 2.957


asym_bpm2i01WS_rms vs run
χ2 / ndf 4.182e+04 / 93
p0 93.28 ± 0.06905
350
300
250
200
150
100

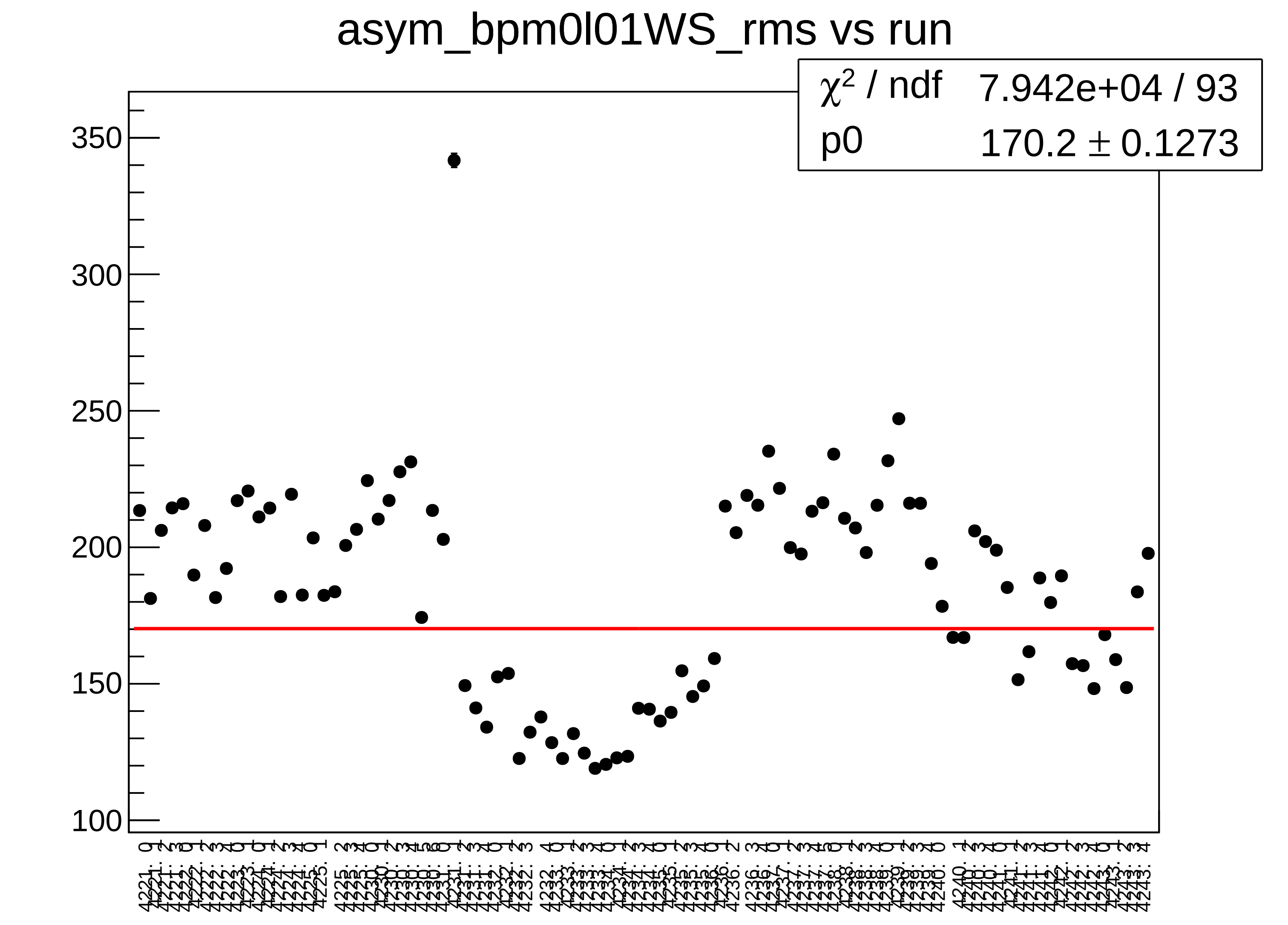

asym_bpm0i07WS_mean vs run
χ^2 / ndf 57.39 / 93
p0 112.5 ± 300.8
pull
Entries 94
Mean 413.2
Std Dev 361.1
pull1D
Entries 94
Mean −0.005763
Std Dev 0.7813



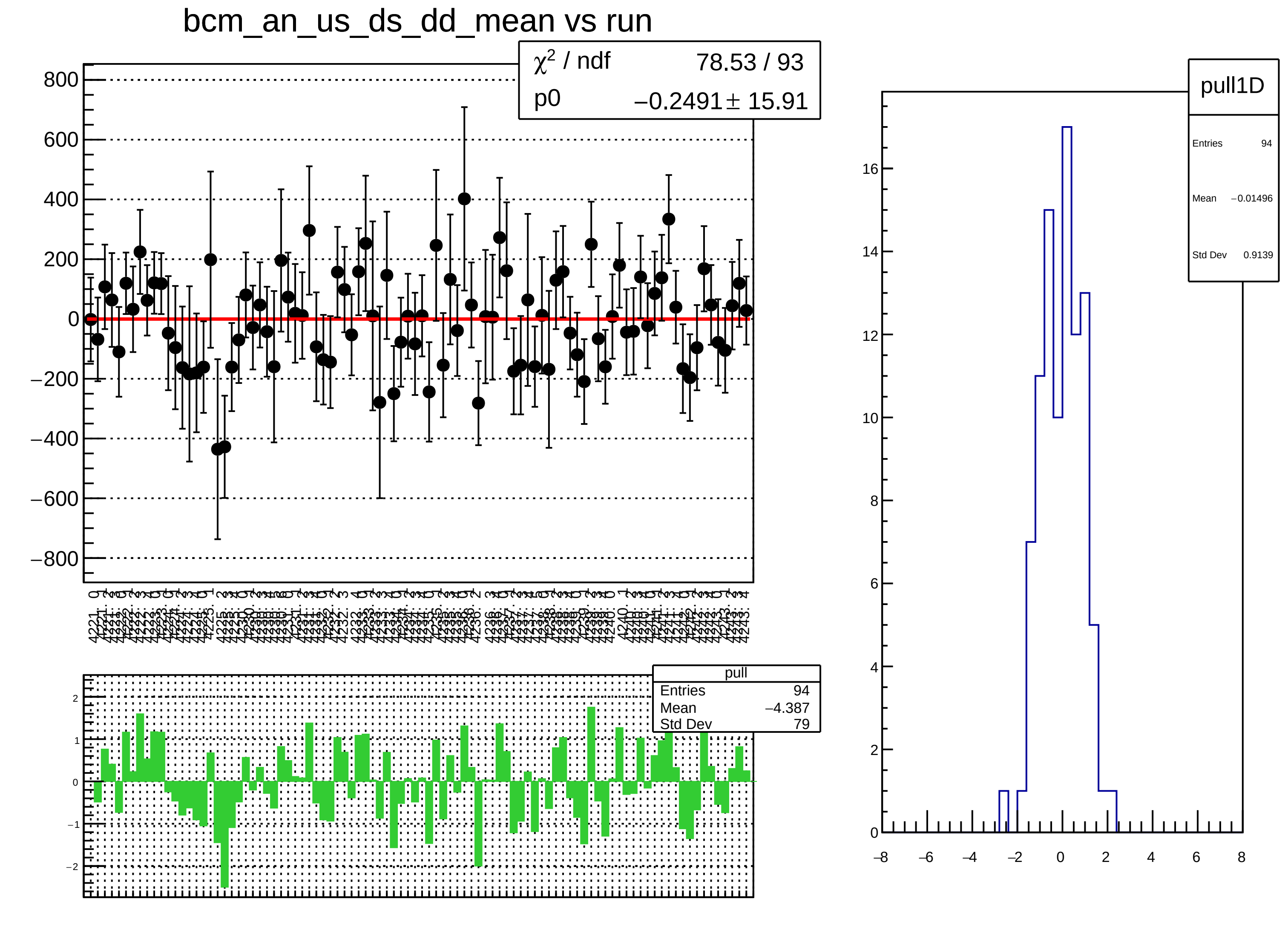
asym_bpm0i07WS_rms vs run
χ² / ndf 1.234e+04 / 93
p0 289.6 ± 0.2127
420
400
380
360
340
320
300
280
260
240



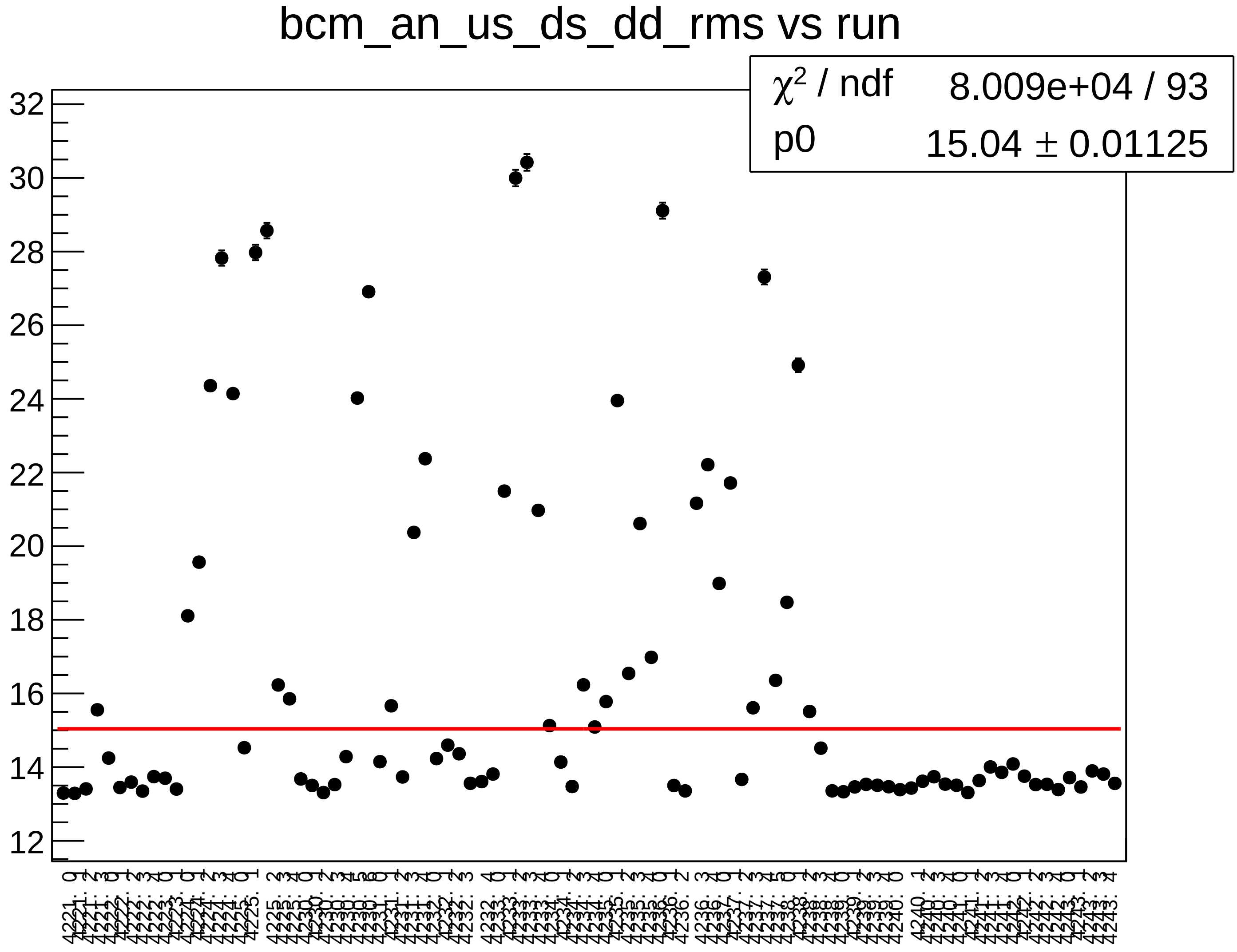
asym_bpm0l01WS_mean vs run
χ^2 / ndf 27.89 / 93
p0 −75.46 ± 180.1
pull
Entries 94
Mean 3338
Std Dev 3297
pull1D
Entries 94
Mean 0.0007633
Std Dev 0.5447

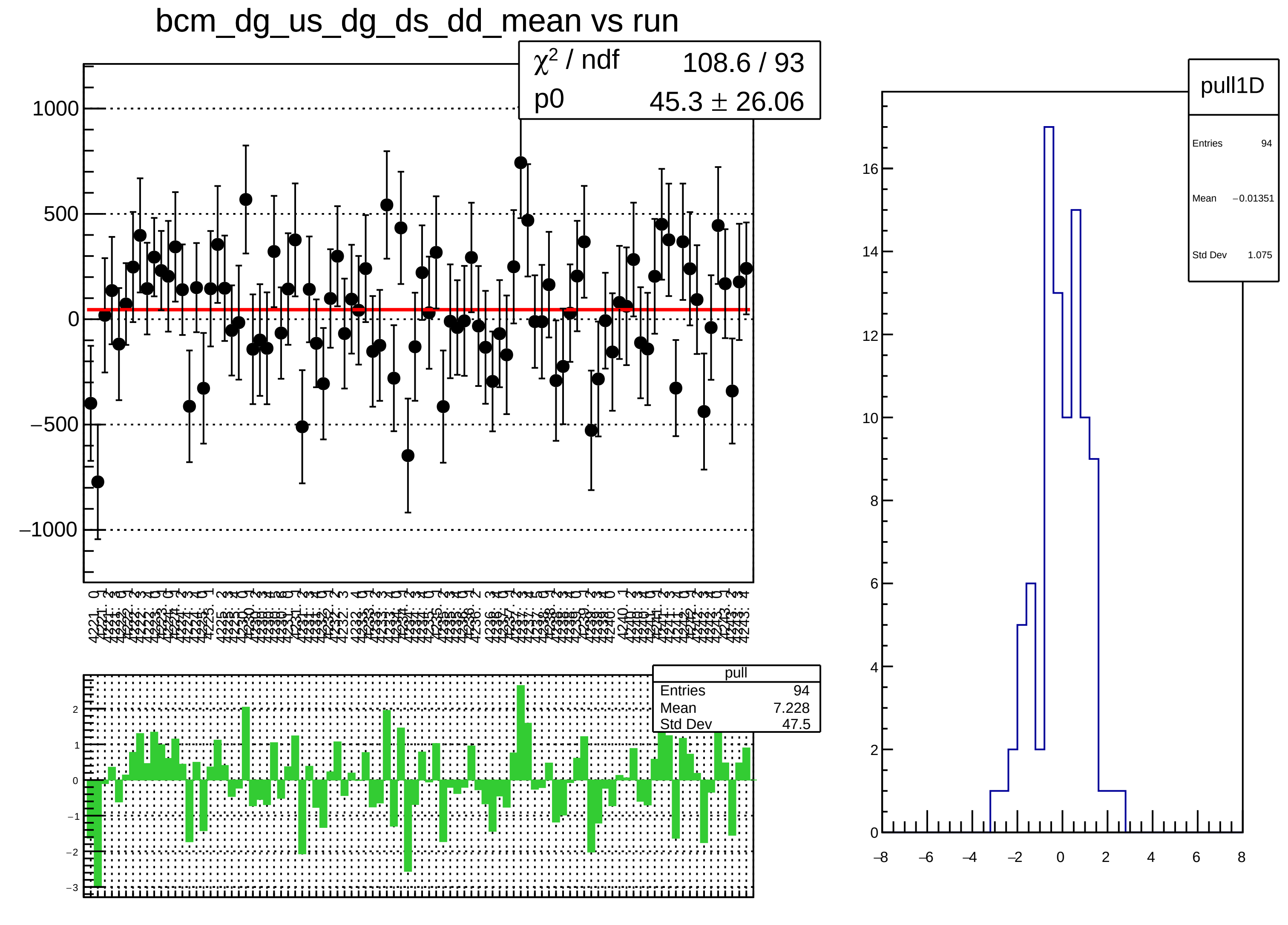


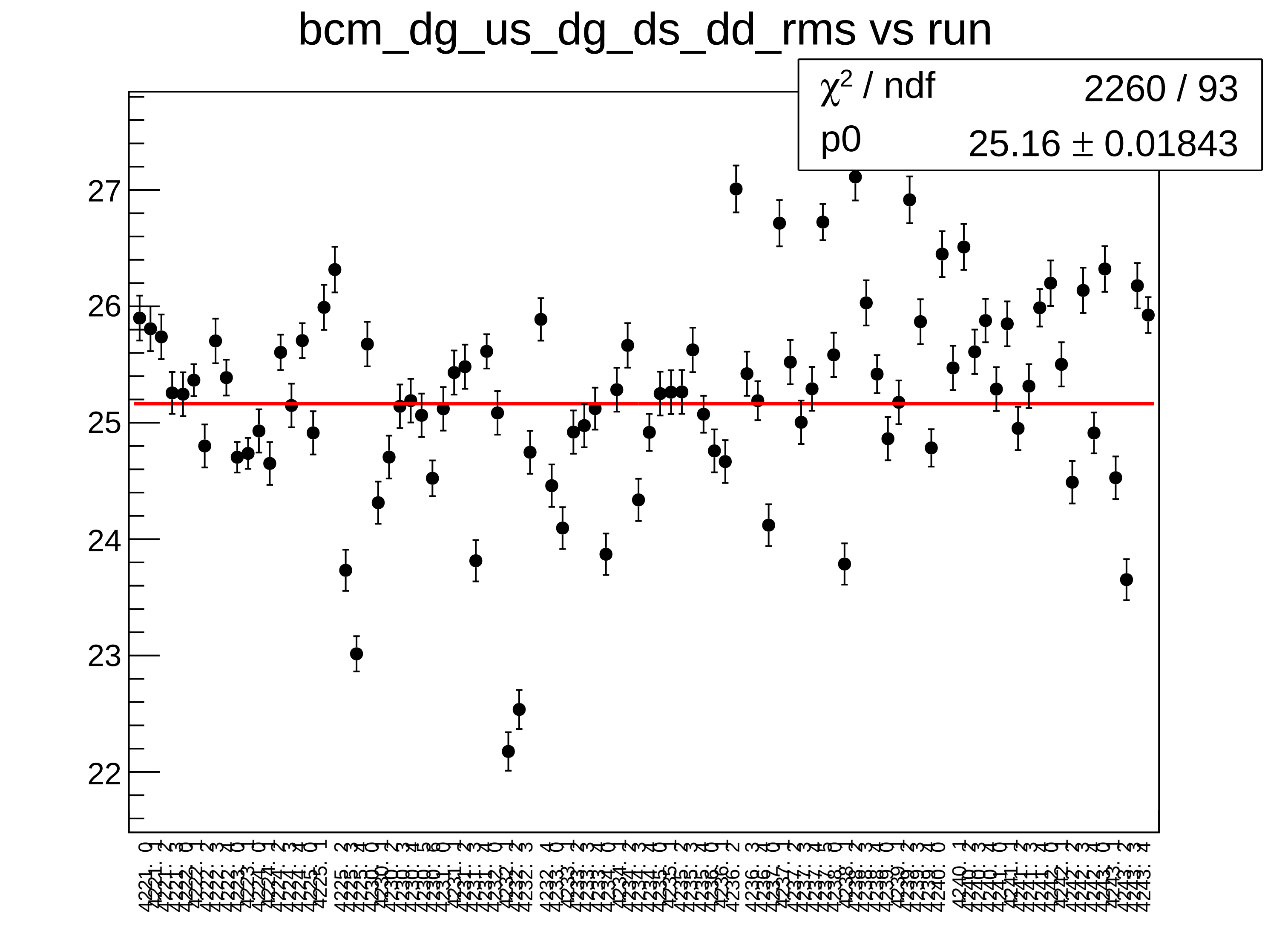
asym_bpm0l01WS_rms vs run
χ^2 / ndf 7.942e+04 / 93
p0 170.2 ± 0.1273
350
300
250
200
150
100



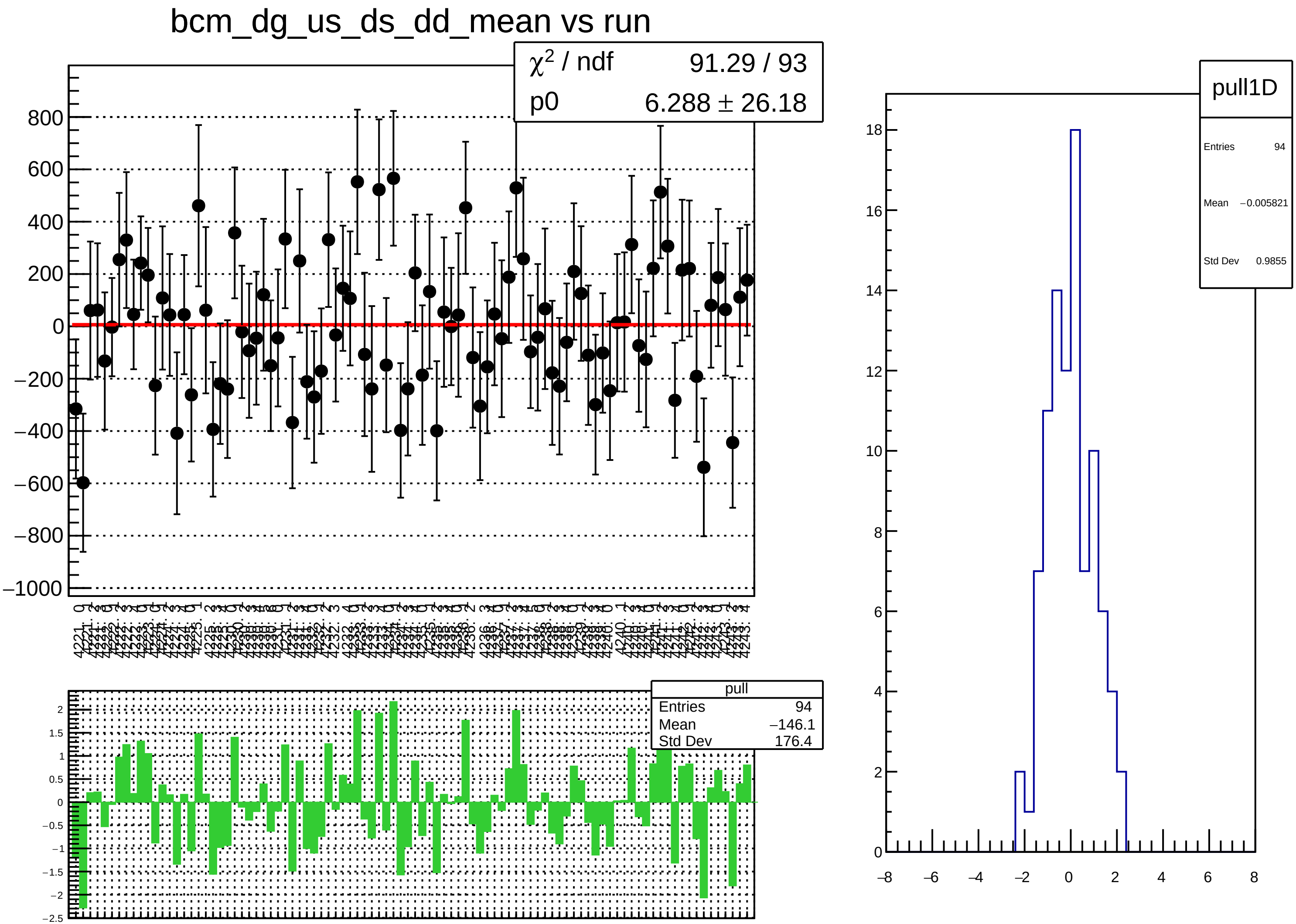
bcm_an_us_ds_dd_mean vs run
χ^2 / ndf 78.53 / 93
p0 −0.2491 ± 15.91
pull
Entries 94
Mean −4.387
Std Dev 79
pull1D
Entries 94
Mean −0.01496
Std Dev 0.9139


bcm_an_us_ds_dd_rms vs run
χ^2 / ndf 8.009e+04 / 93
p0 15.04 ± 0.01125
32
30
28
26
24
22
20
18
16
14
12

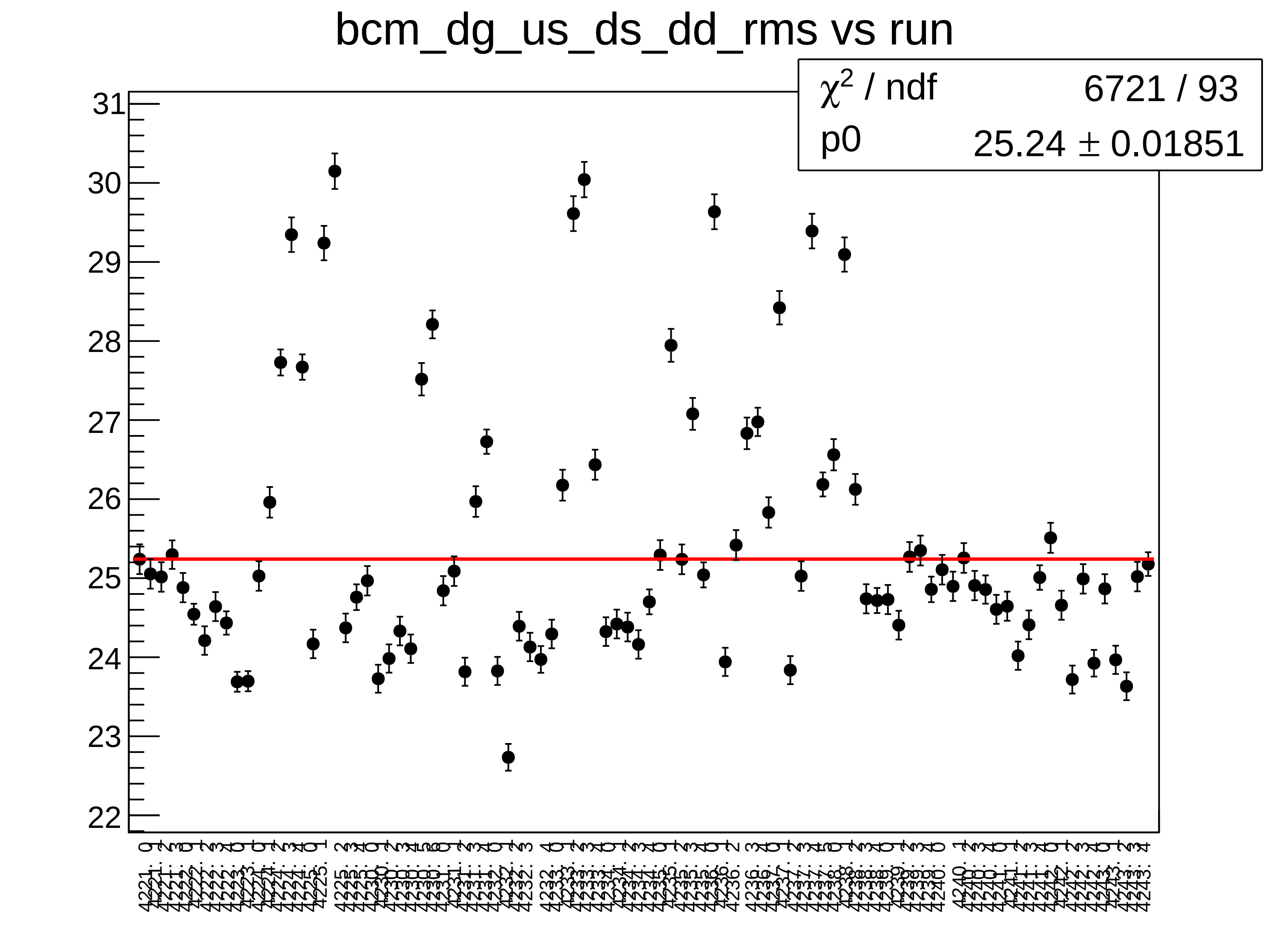

bcm_dg_us_dg_ds_dd_mean vs run
χ2 / ndf 108.6 / 93
p0 45.3 ± 26.06
1000
500
0
−500
−1000
pull
Entries 94
Mean 7.228
Std Dev 47.5
pull1D
Entries 94
Mean −0.01351
Std Dev 1.075



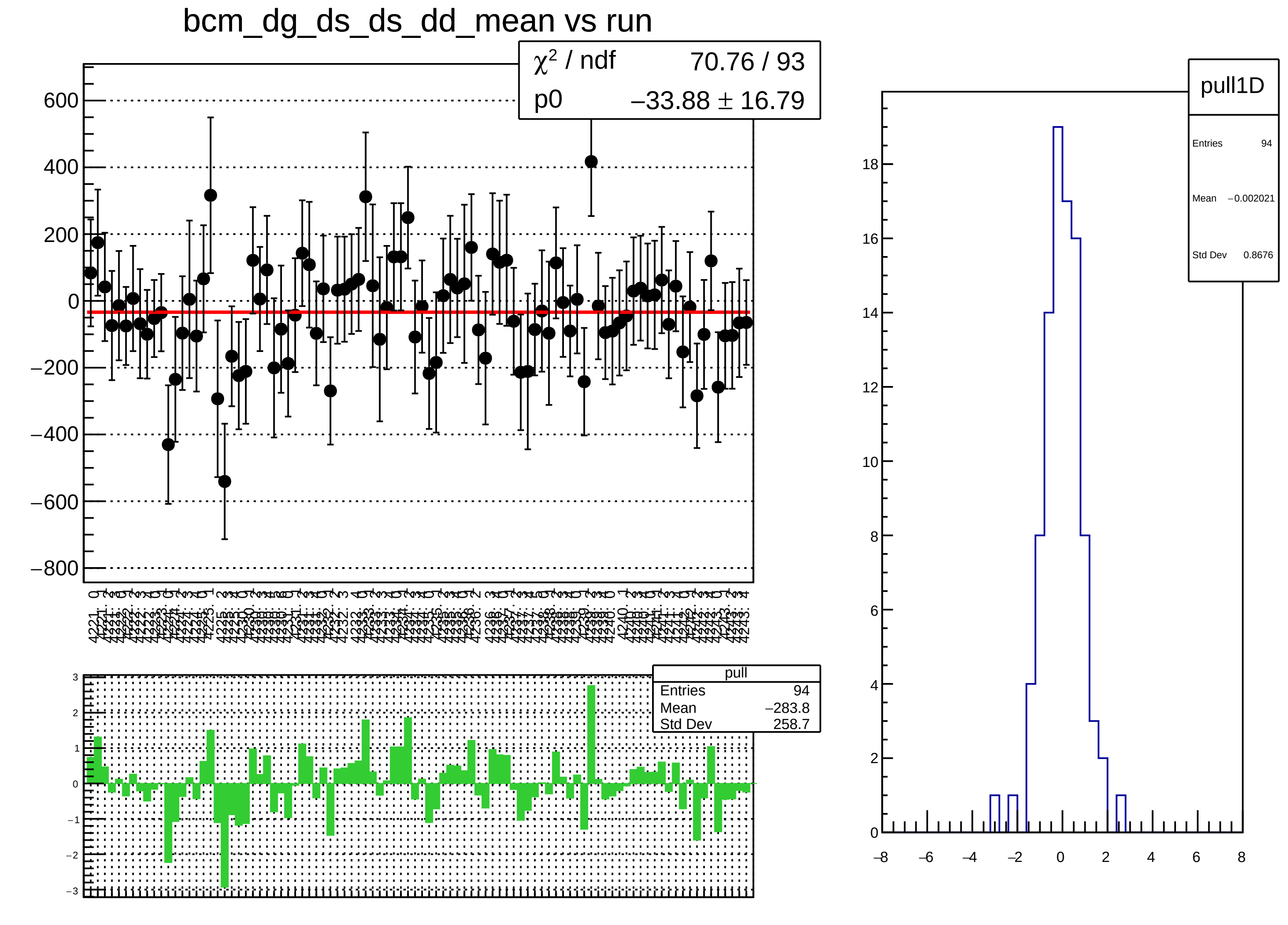
bcm_dg_us_dg_ds_dd_rms vs run
χ2 / ndf 2260 / 93
p0 25.16 ± 0.01843
27
26
25
24
23
22



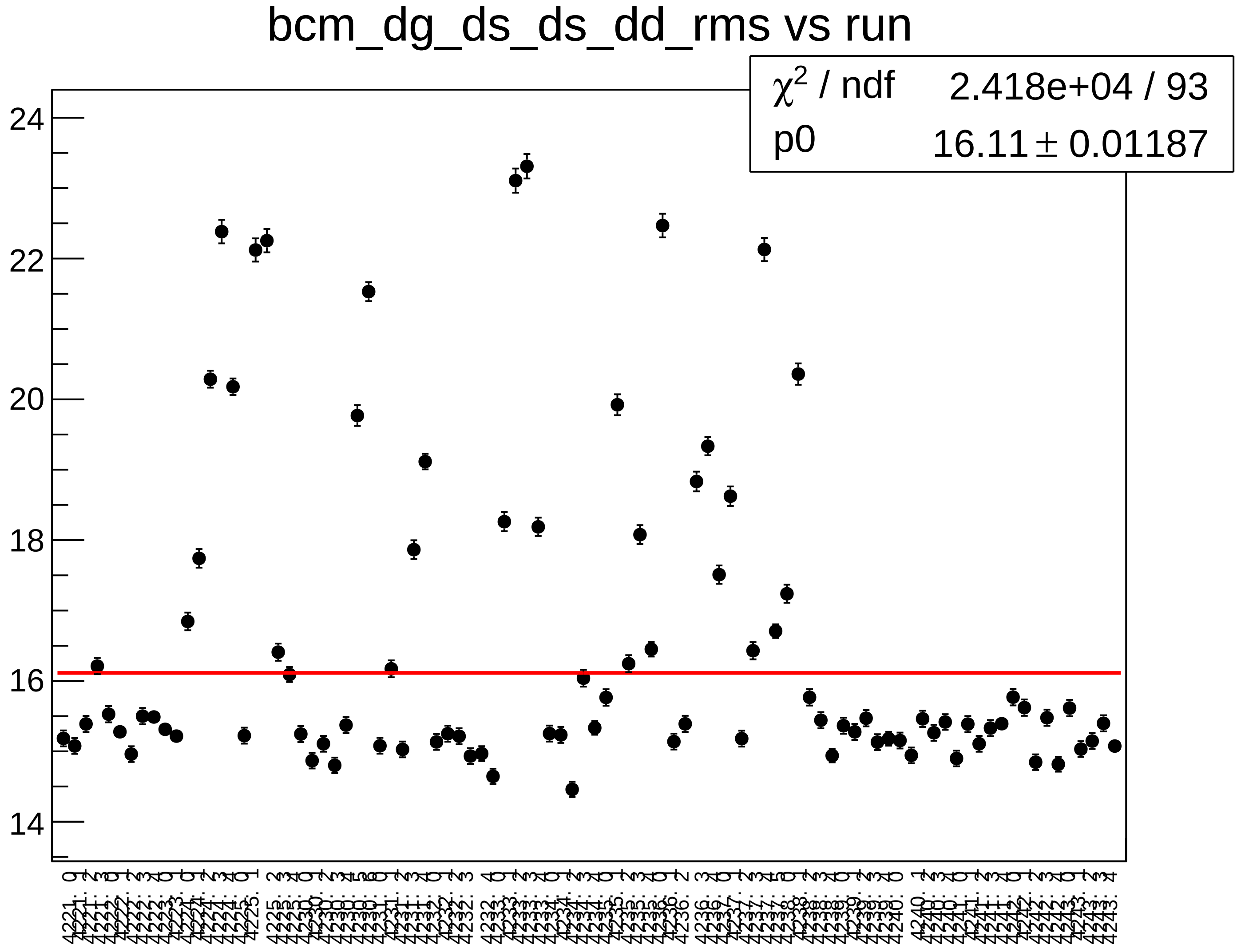
bcm_dg_us_ds_dd_mean vs run
χ^2 / ndf 91.29 / 93
p0 6.288 ± 26.18
pull
Entries 94
Mean −146.1
Std Dev 176.4
pull1D
Entries 94
Mean −0.005821
Std Dev 0.9855



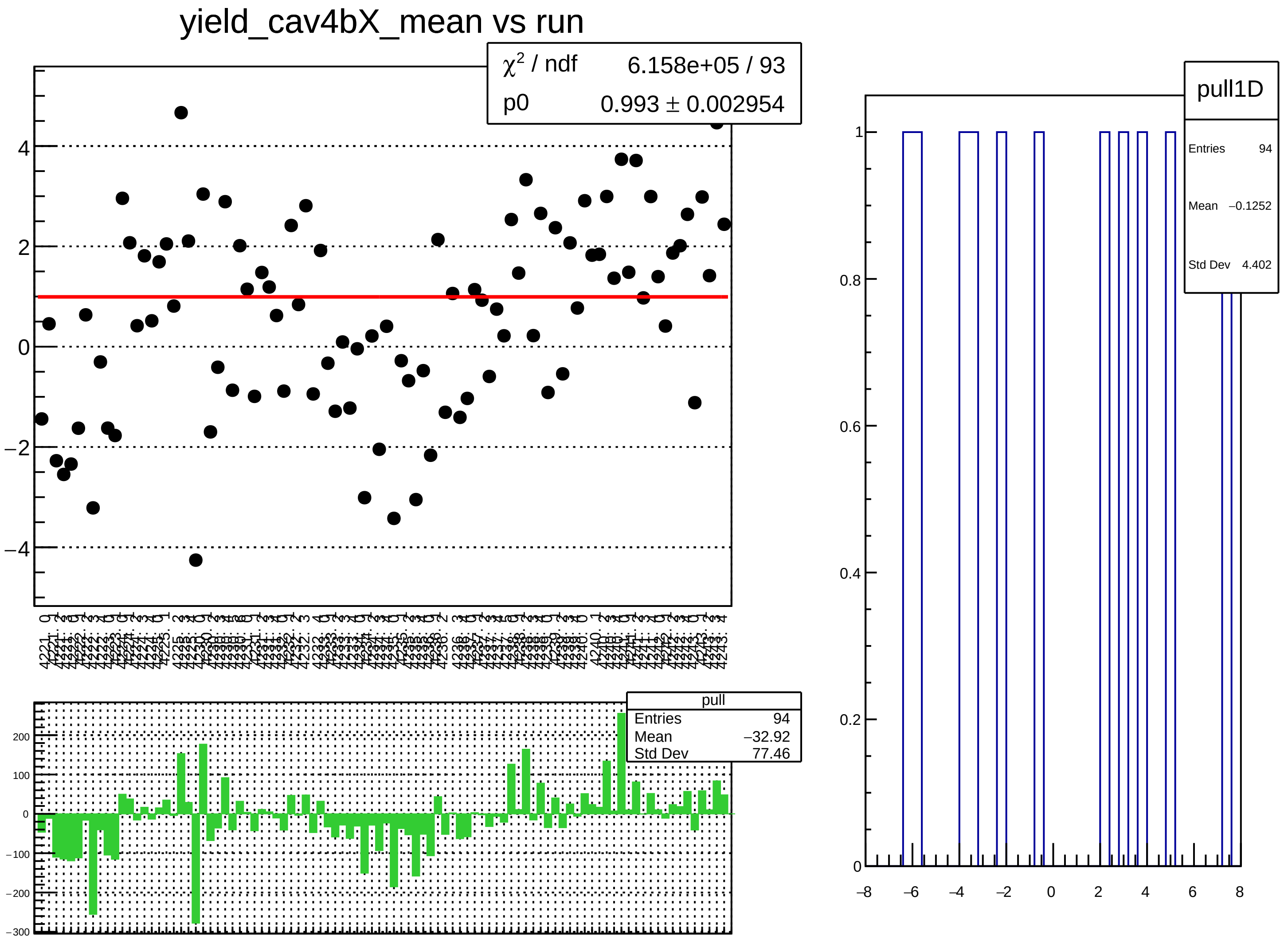
bcm_dg_us_ds_dd_rms vs run
χ2 / ndf 6721 / 93
p0 25.24 ± 0.01851
31
30
29
28
27
26
25
24
23
22



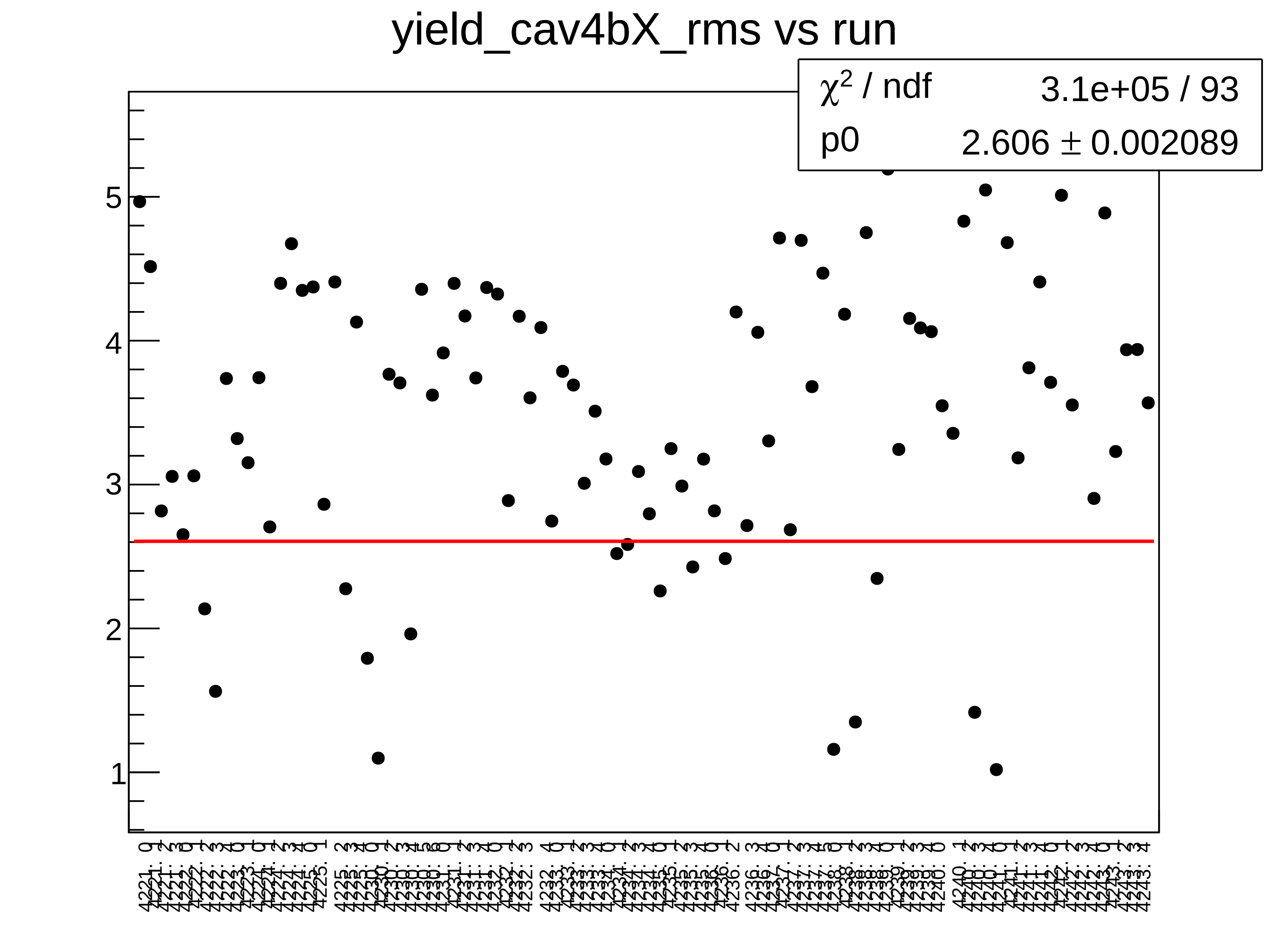
bcm_dg_ds_ds_dd_mean vs run
χ2 / ndf 70.76 / 93
p0 −33.88 ± 16.79
pull
Entries 94
Mean −283.8
Std Dev 258.7
pull1D
Entries 94
Mean −0.002021
Std Dev 0.8676



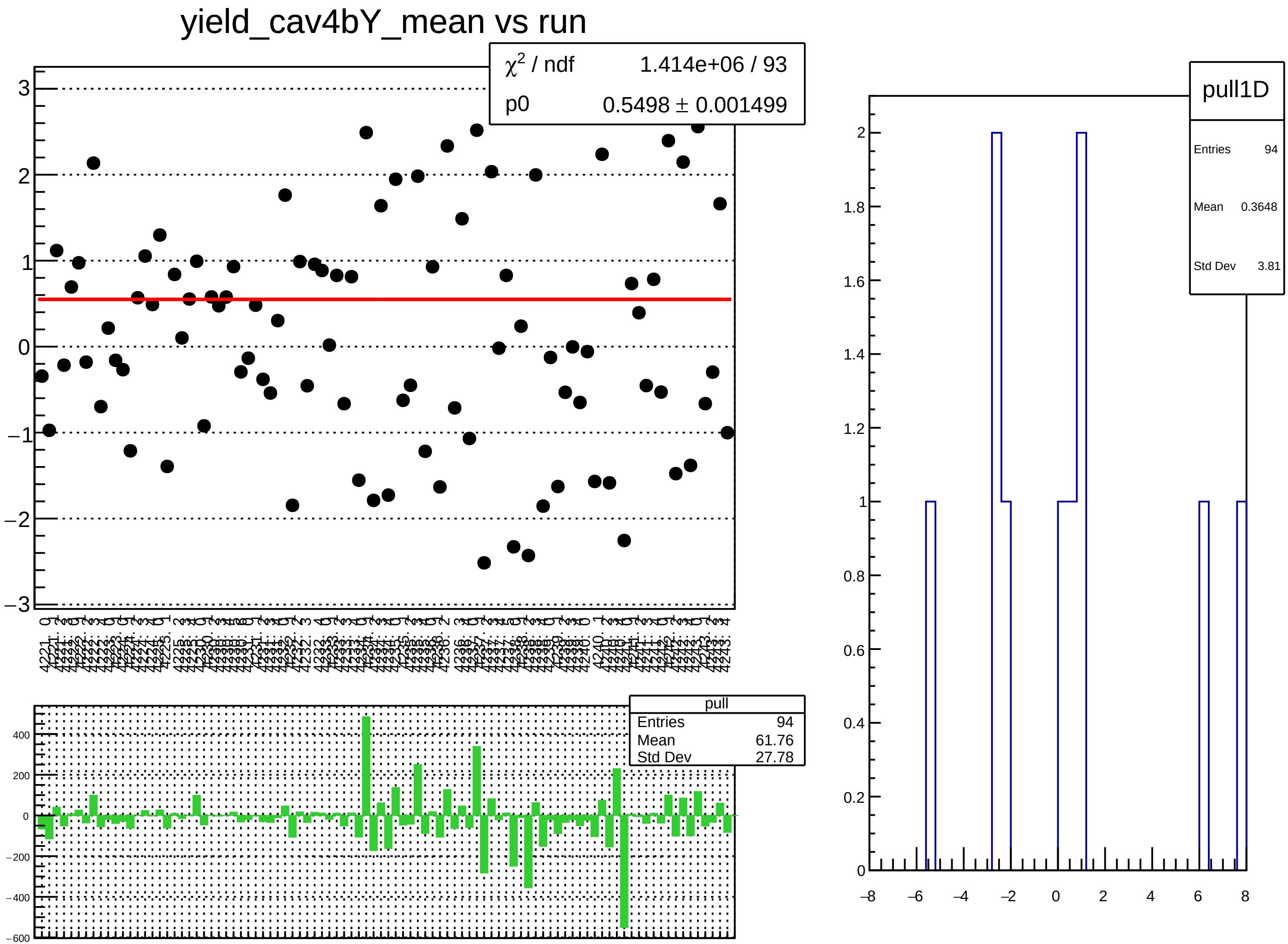
bcm_dg_ds_ds_dd_rms vs run
χ^2 / ndf 2.418e+04 / 93
p0 16.11 ± 0.01187
24
22
20
18
16
14



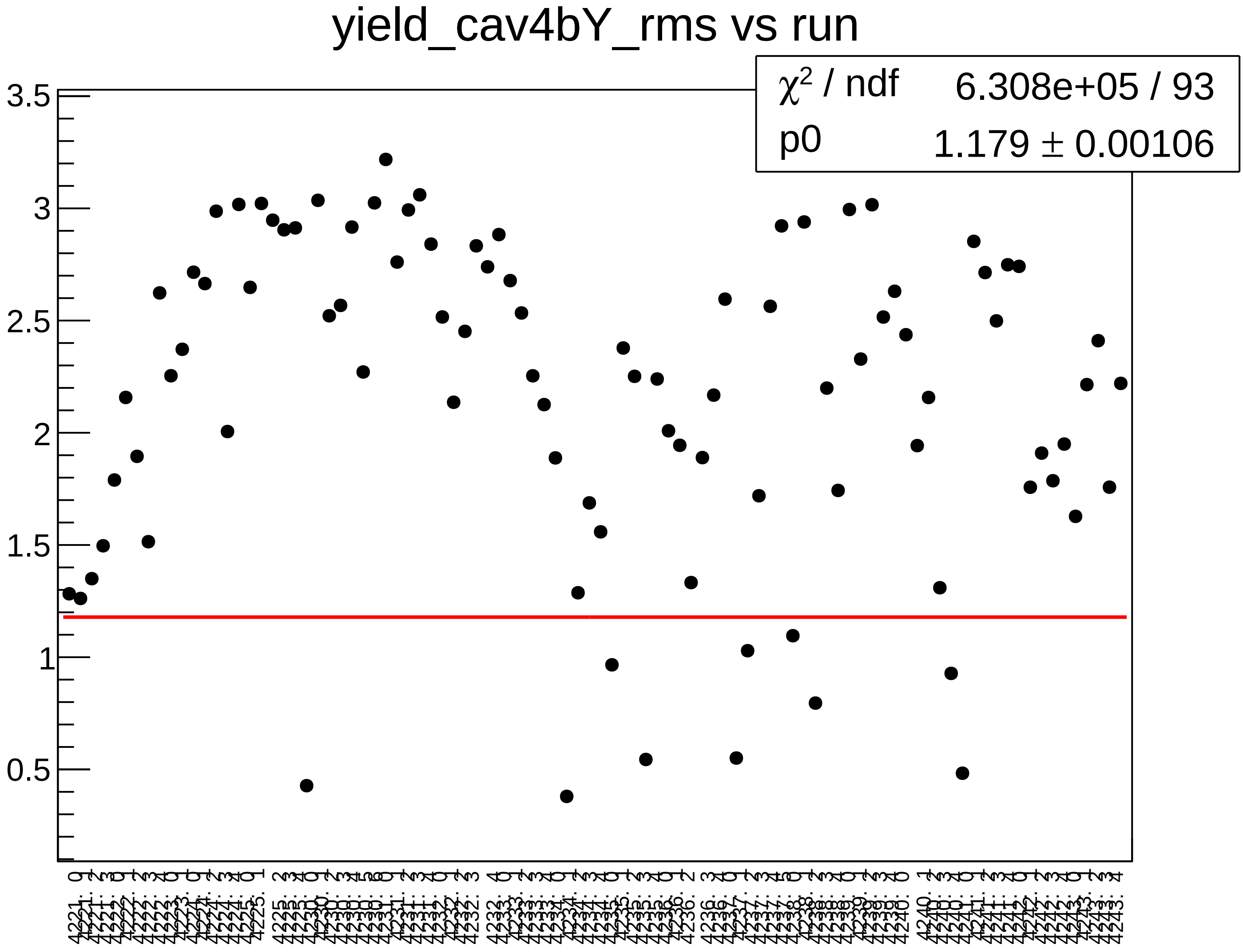
yield_cav4bX_mean vs run
χ^2 / ndf 6.158e+05 / 93
p0 0.993 ± 0.002954
pull
Entries 94
Mean −32.92
Std Dev 77.46
pull1D
Entries 94
Mean −0.1252
Std Dev 4.402



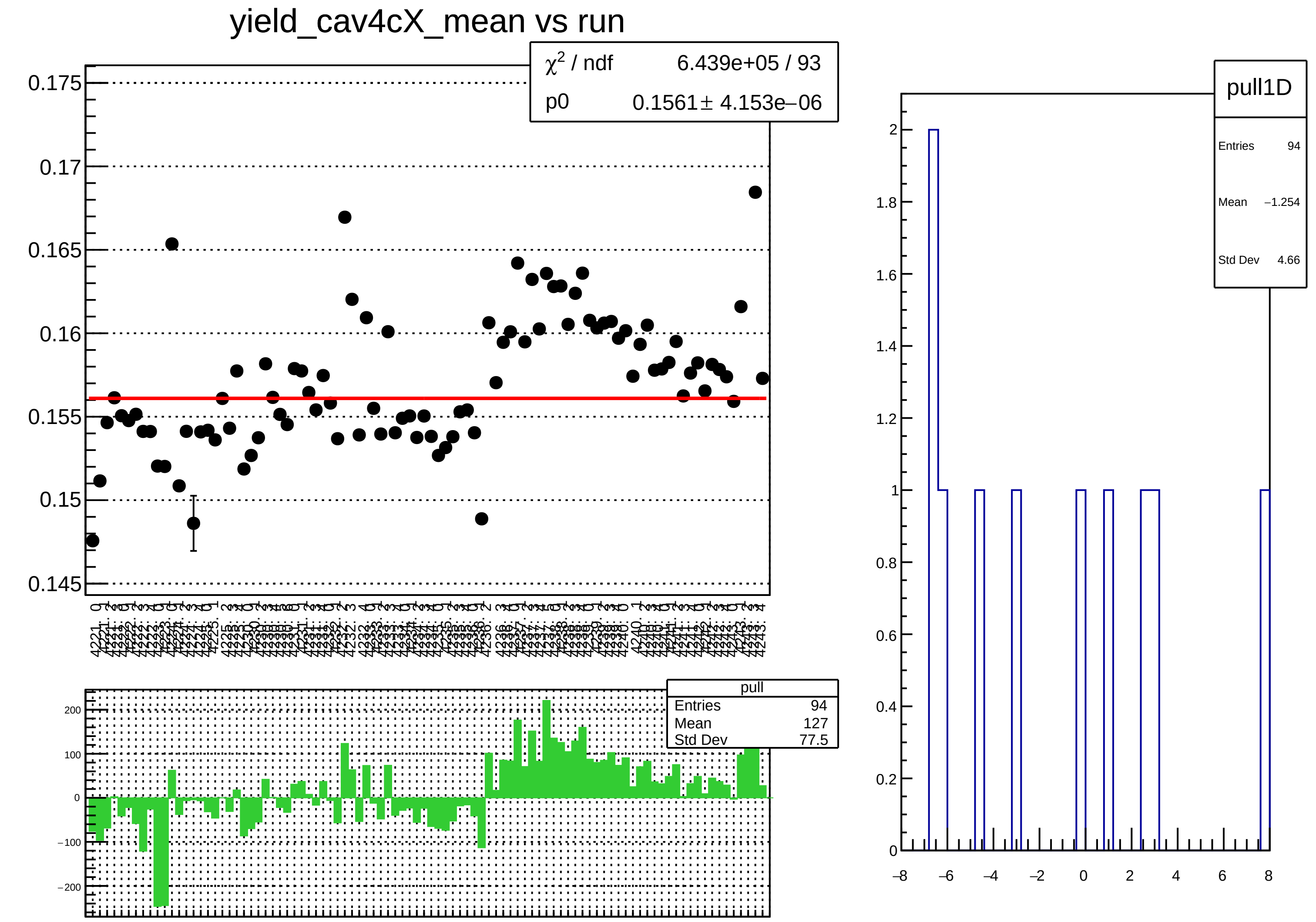
yield_cav4bX_rms vs run
χ^2 / ndf 3.1e+05 / 93
p0 2.606 ± 0.002089



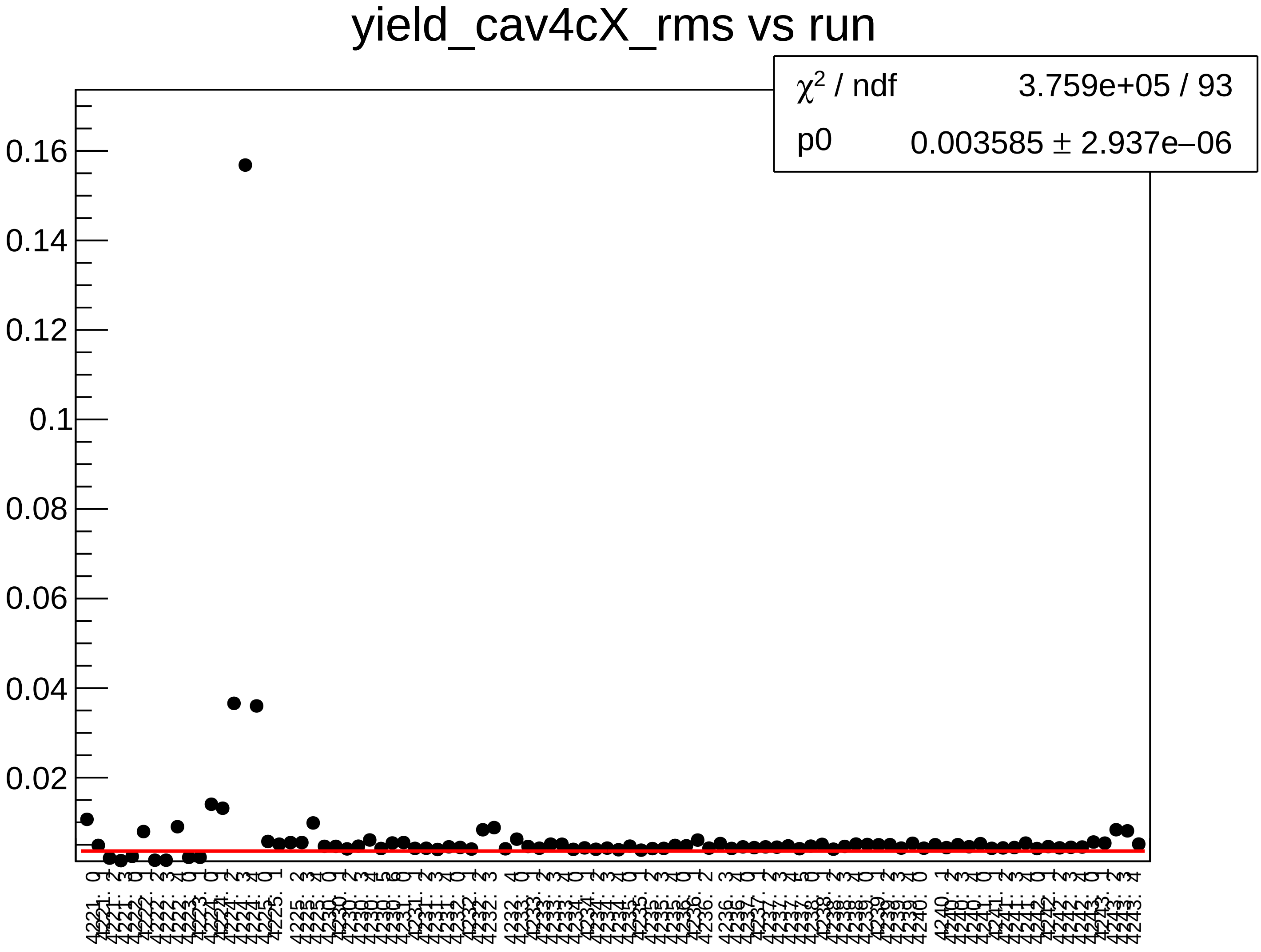
yield_cav4bY_mean vs run
χ^2 / ndf 1.414e+06 / 93
p0 0.5498 ± 0.001499
pull
Entries 94
Mean 61.76
Std Dev 27.78
pull1D
Entries 94
Mean 0.3648
Std Dev 3.81



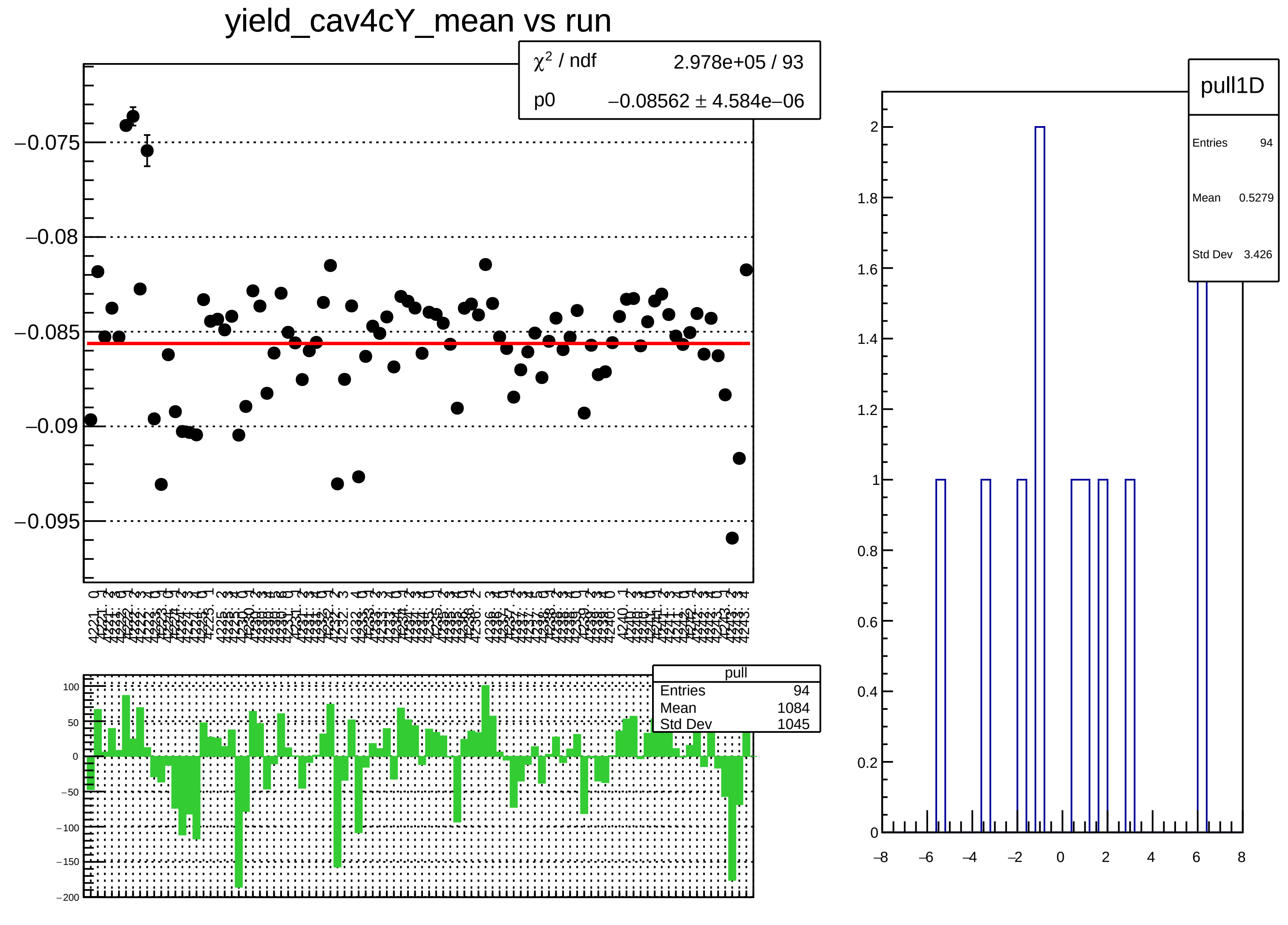
yield_cav4bY_rms vs run
χ^2 / ndf 6.308e+05 / 93
p0 1.179 ± 0.00106
3.5
3
2.5
2
1.5
1
0.5



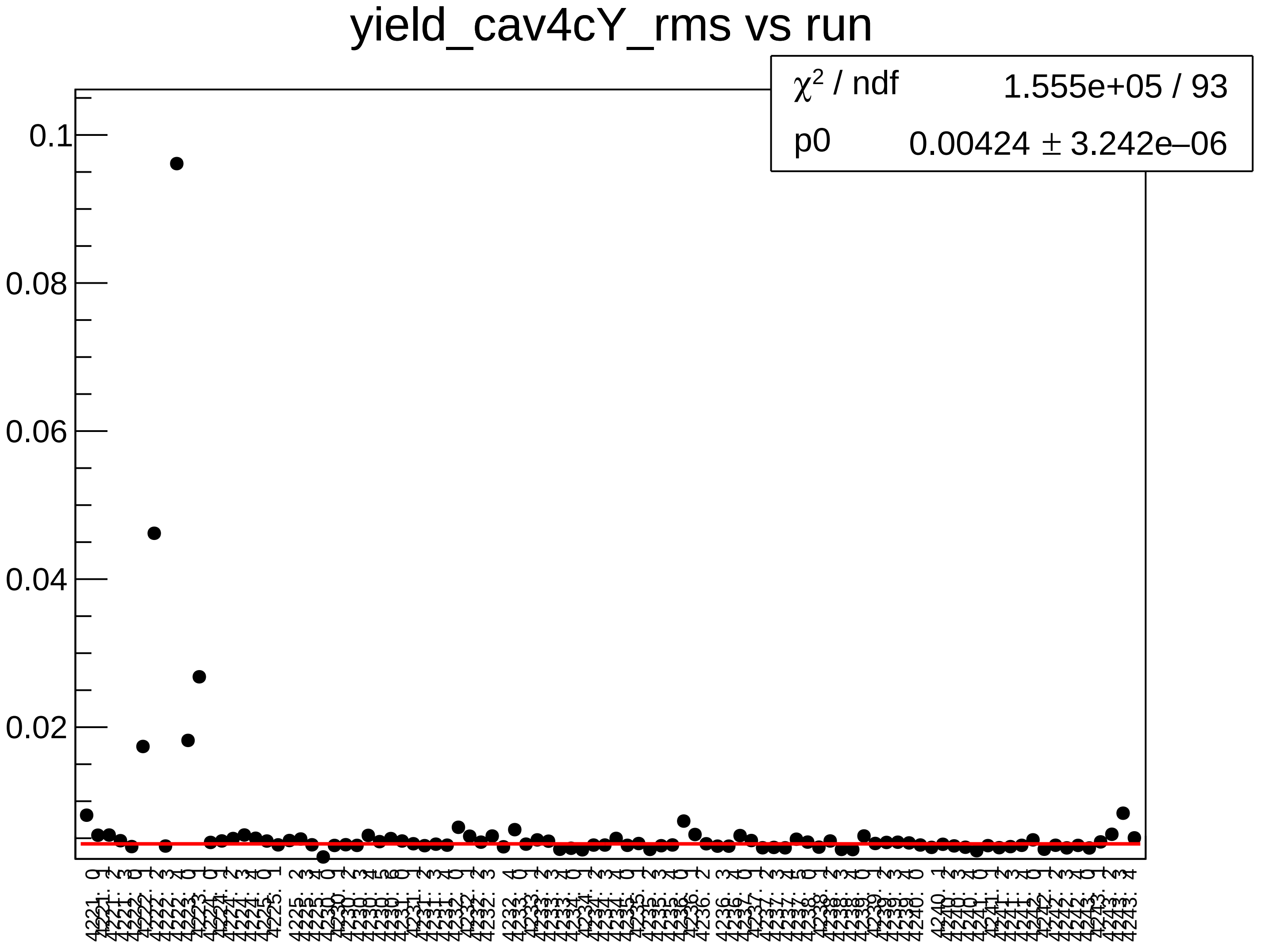
yield_cav4cX_mean vs run
χ^2 / ndf 6.439e+05 / 93
p0 0.1561 ± 4.153e−06
0.175
0.17
0.165
0.16
0.155
0.15
0.145
pull
Entries 94
Mean 127
Std Dev 77.5
200
100
0
−100
−200
pull1D
Entries 94
Mean −1.254
Std Dev 4.66
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



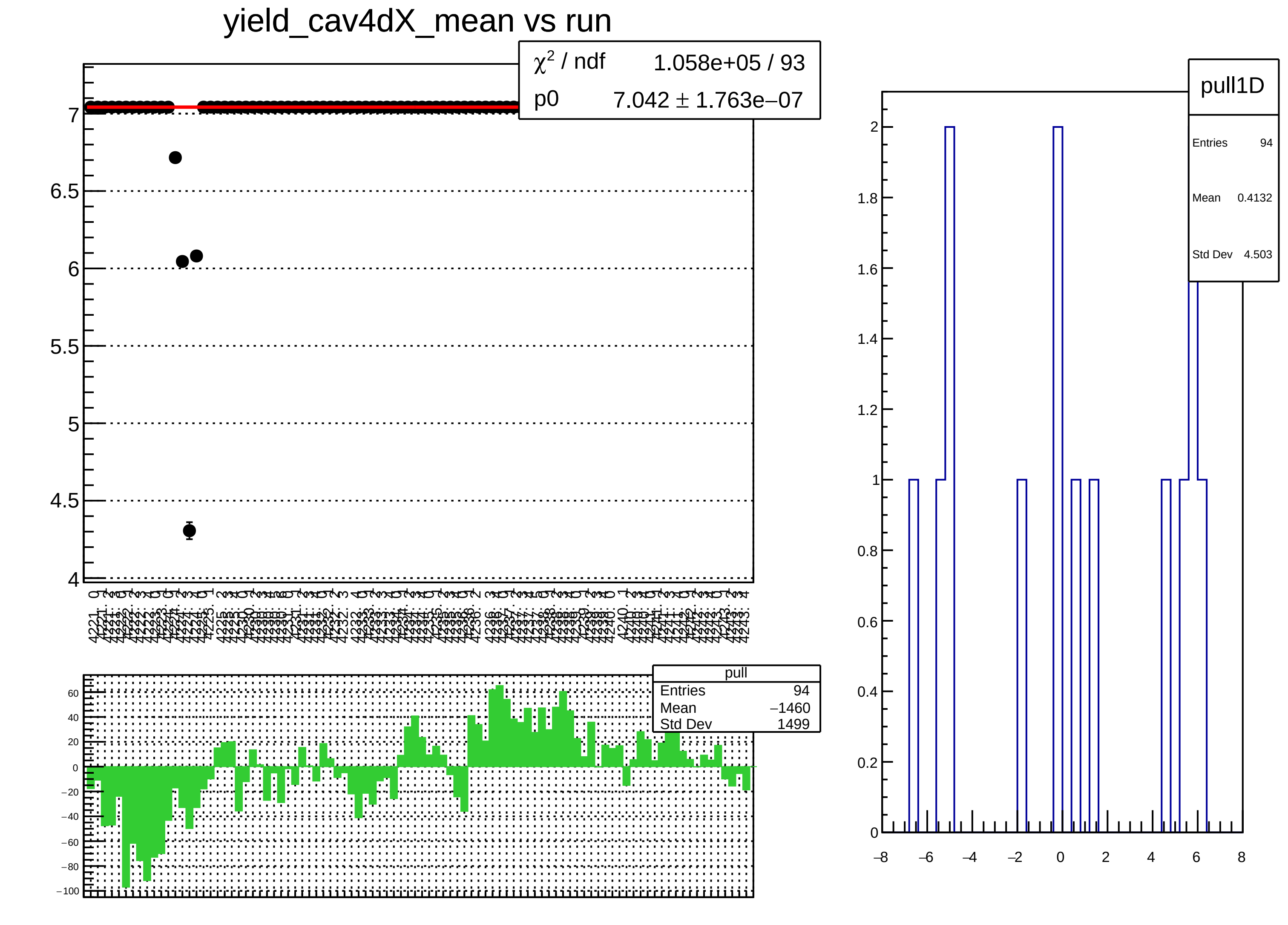
yield_cav4cX_rms vs run
χ^2 / ndf 3.759e+05 / 93
p0 0.003585 ± 2.937e−06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02



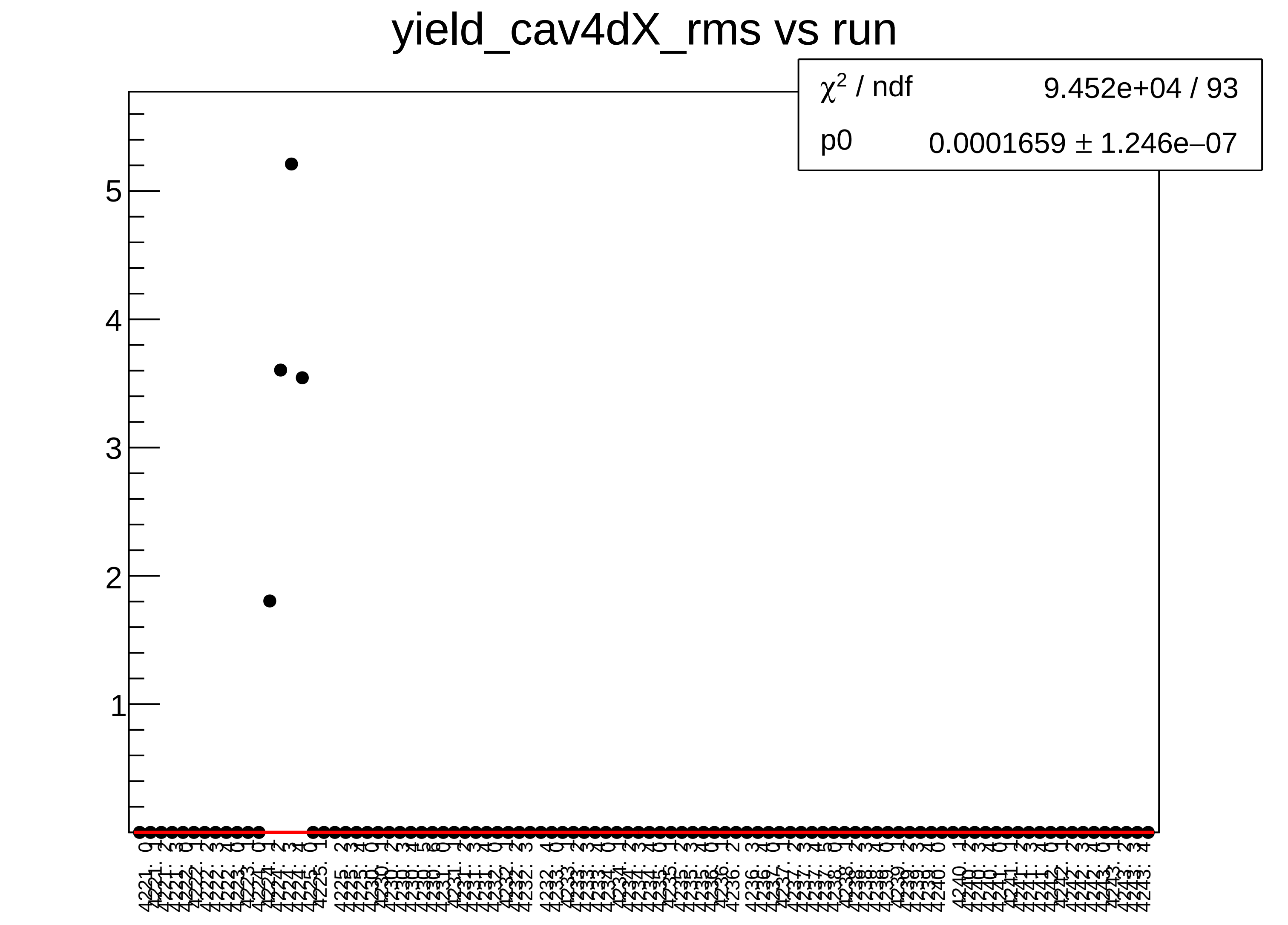
yield_cav4cY_mean vs run
χ2 / ndf 2.978e+05 / 93
p0 −0.08562 ± 4.584e−06
pull
Entries 94
Mean 1084
Std Dev 1045
pull1D
Entries 94
Mean 0.5279
Std Dev 3.426



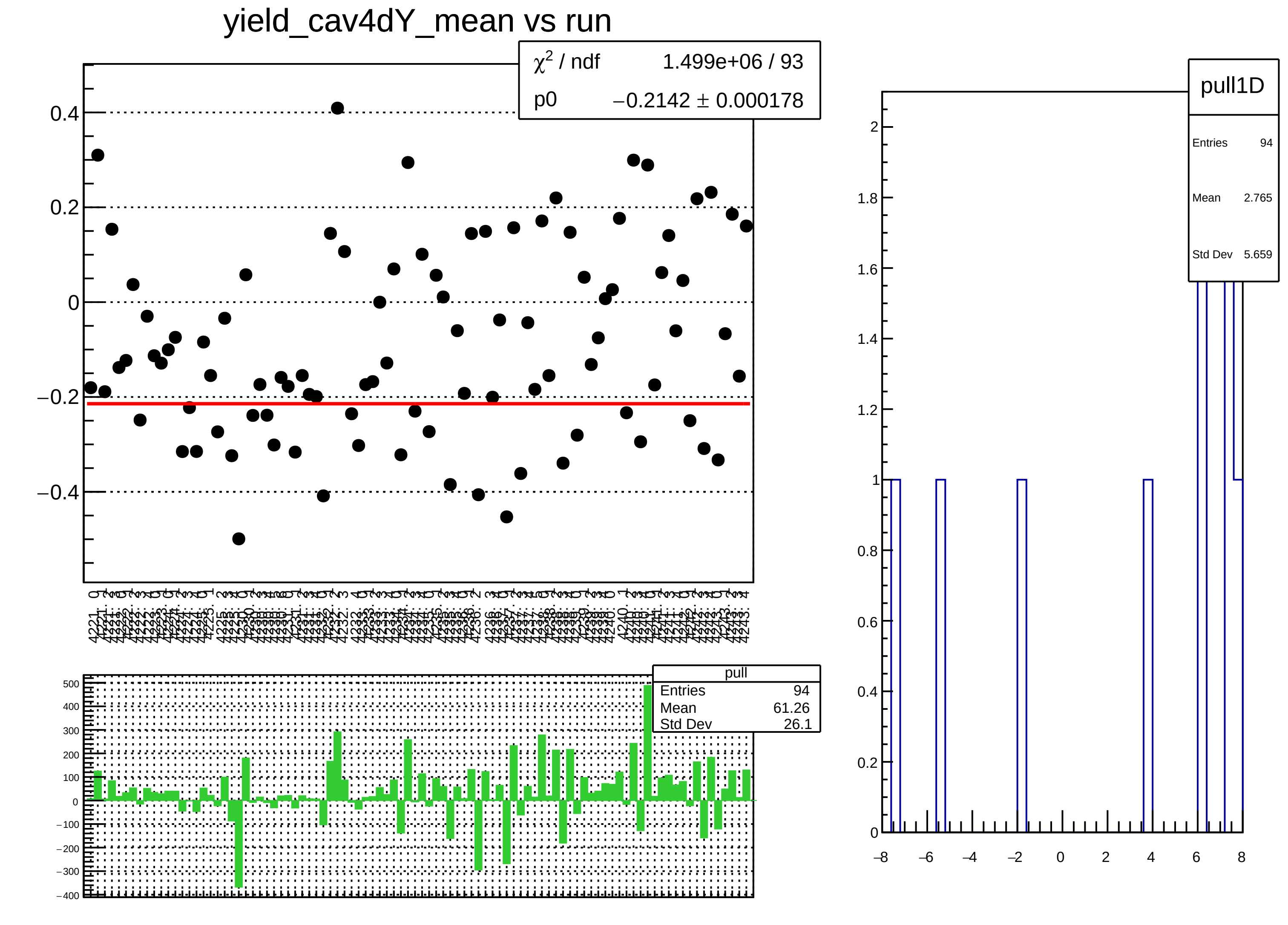
yield_cav4cY_rms vs run
χ2 / ndf 1.555e+05 / 93
p0 0.00424 ± 3.242e−06
0.1
0.08
0.06
0.04
0.02



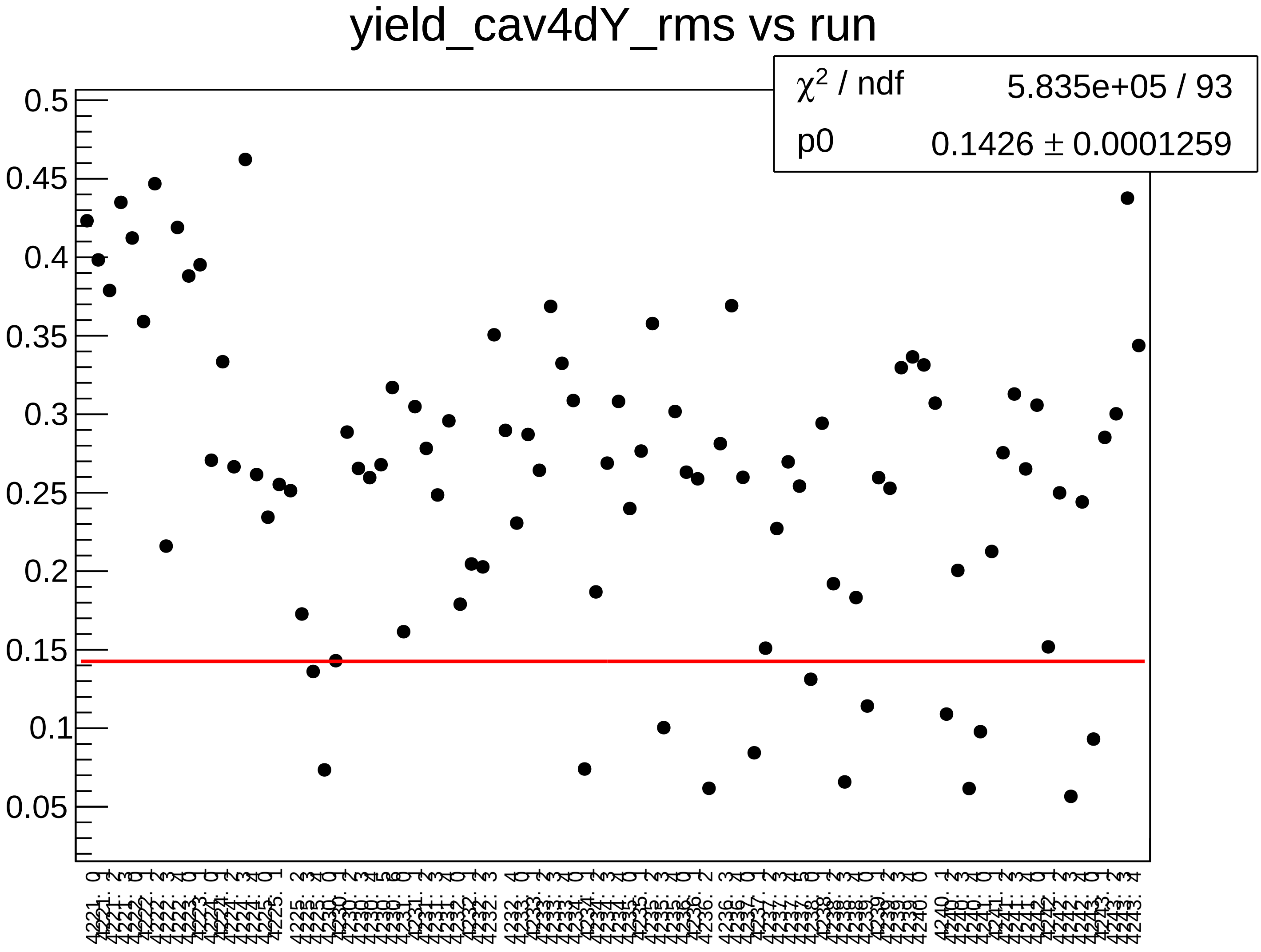
yield_cav4dX_mean vs run
χ2 / ndf 1.058e+05 / 93
p0 7.042 ± 1.763e−07
pull
Entries 94
Mean −1460
Std Dev 1499
pull1D
Entries 94
Mean 0.4132
Std Dev 4.503

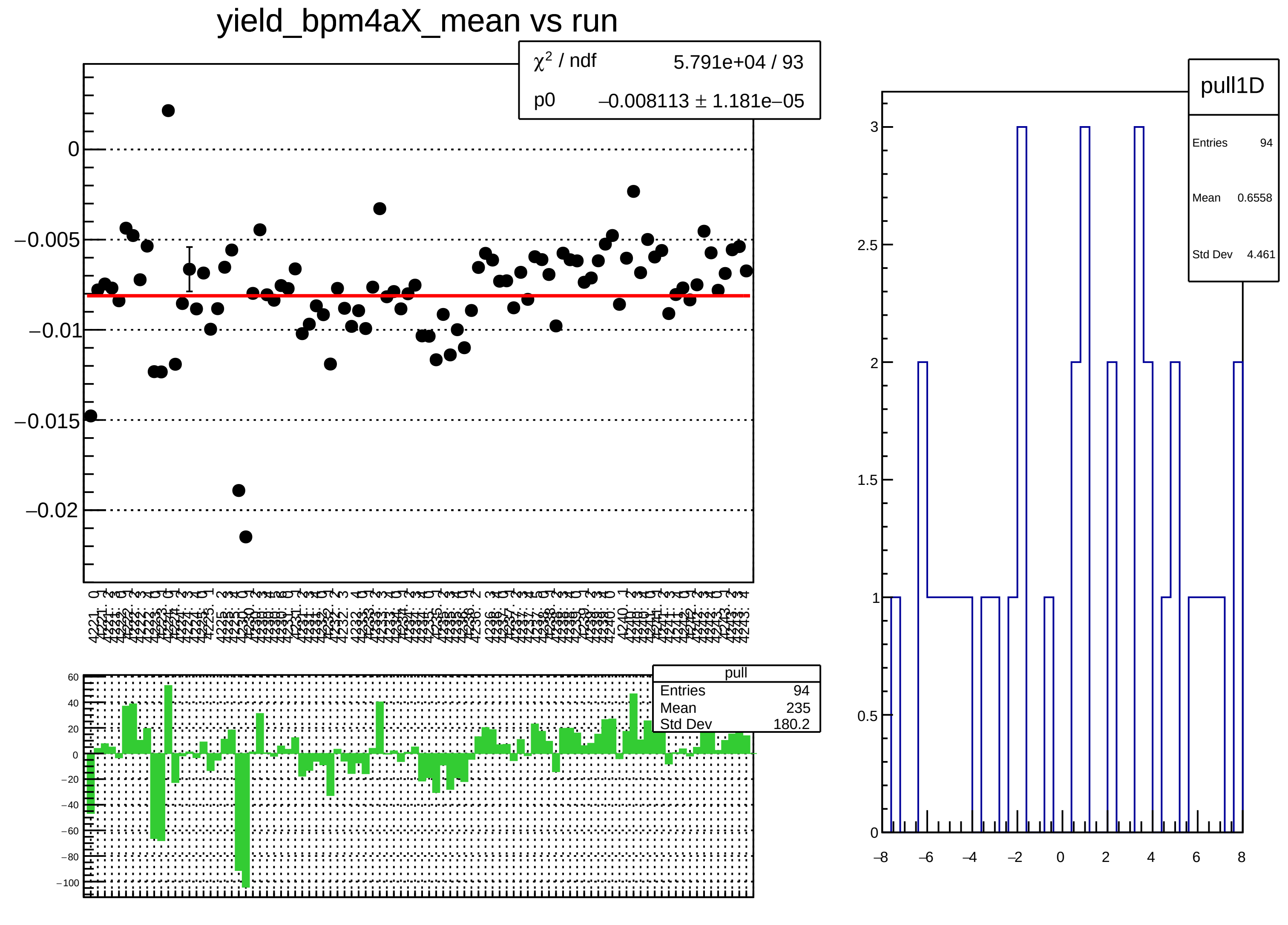


yield_cav4dX_rms vs run
χ^2 / ndf 9.452e+04 / 93
p0 0.0001659 ± 1.246e−07
5
4
3
2
1

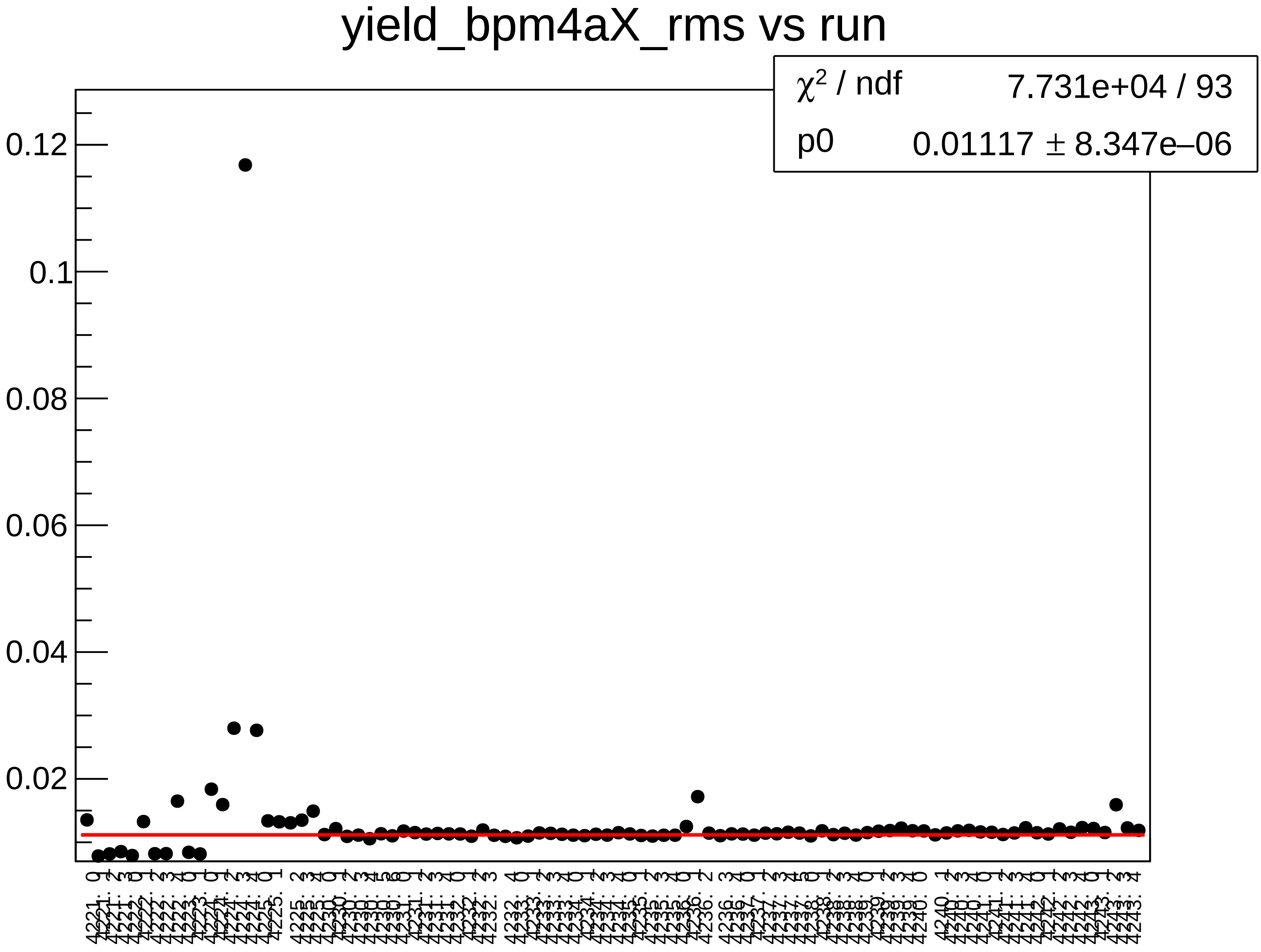


yield_cav4dY_mean vs run
χ^2 / ndf 1.499e+06 / 93
p0 −0.2142 ± 0.000178
pull
Entries 94
Mean 61.26
Std Dev 26.1
pull1D
Entries 94
Mean 2.765
Std Dev 5.659

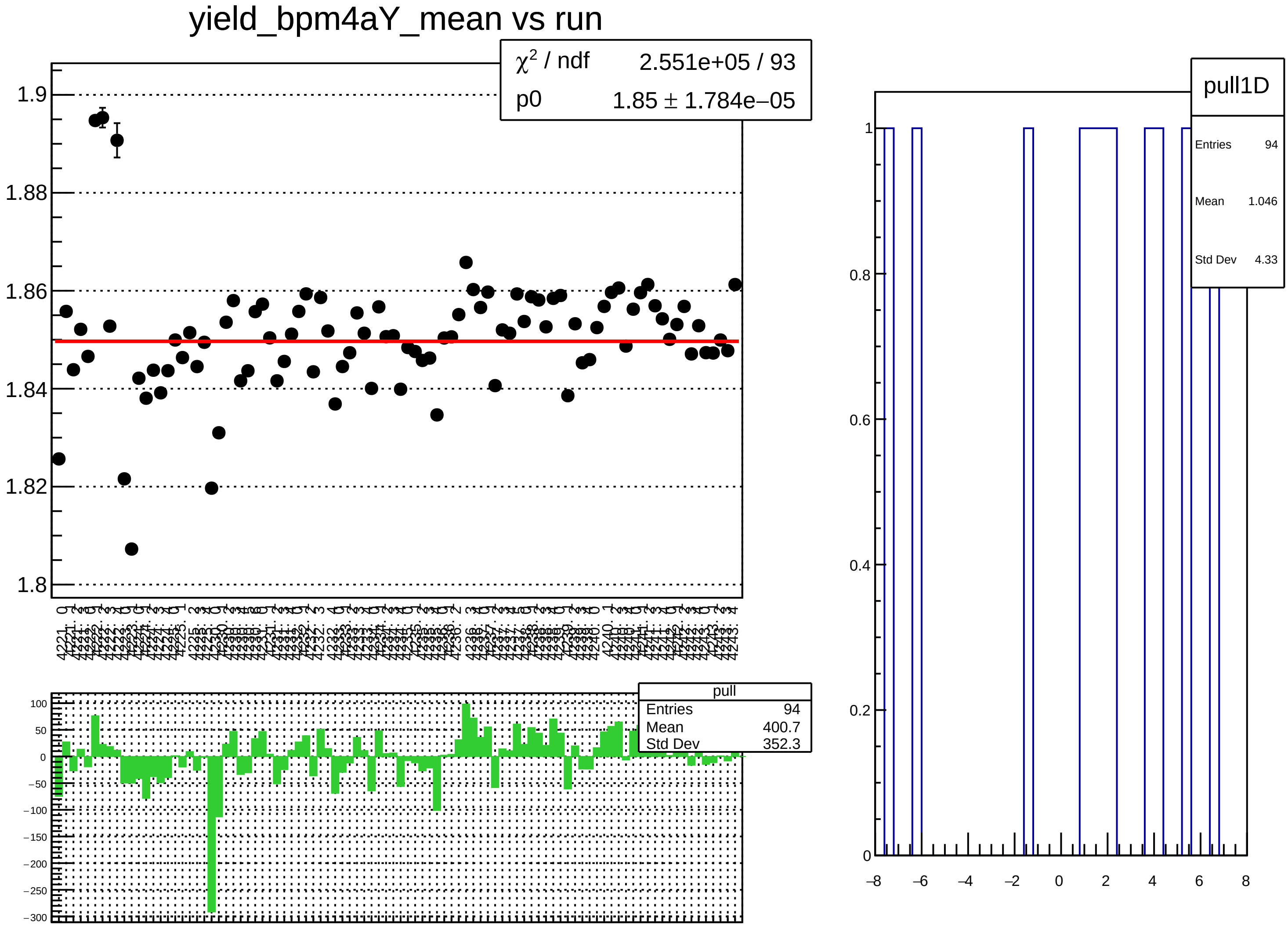

yield_cav4dY_rms vs run
χ2 / ndf 5.835e+05 / 93
p0 0.1426 ± 0.0001259
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05



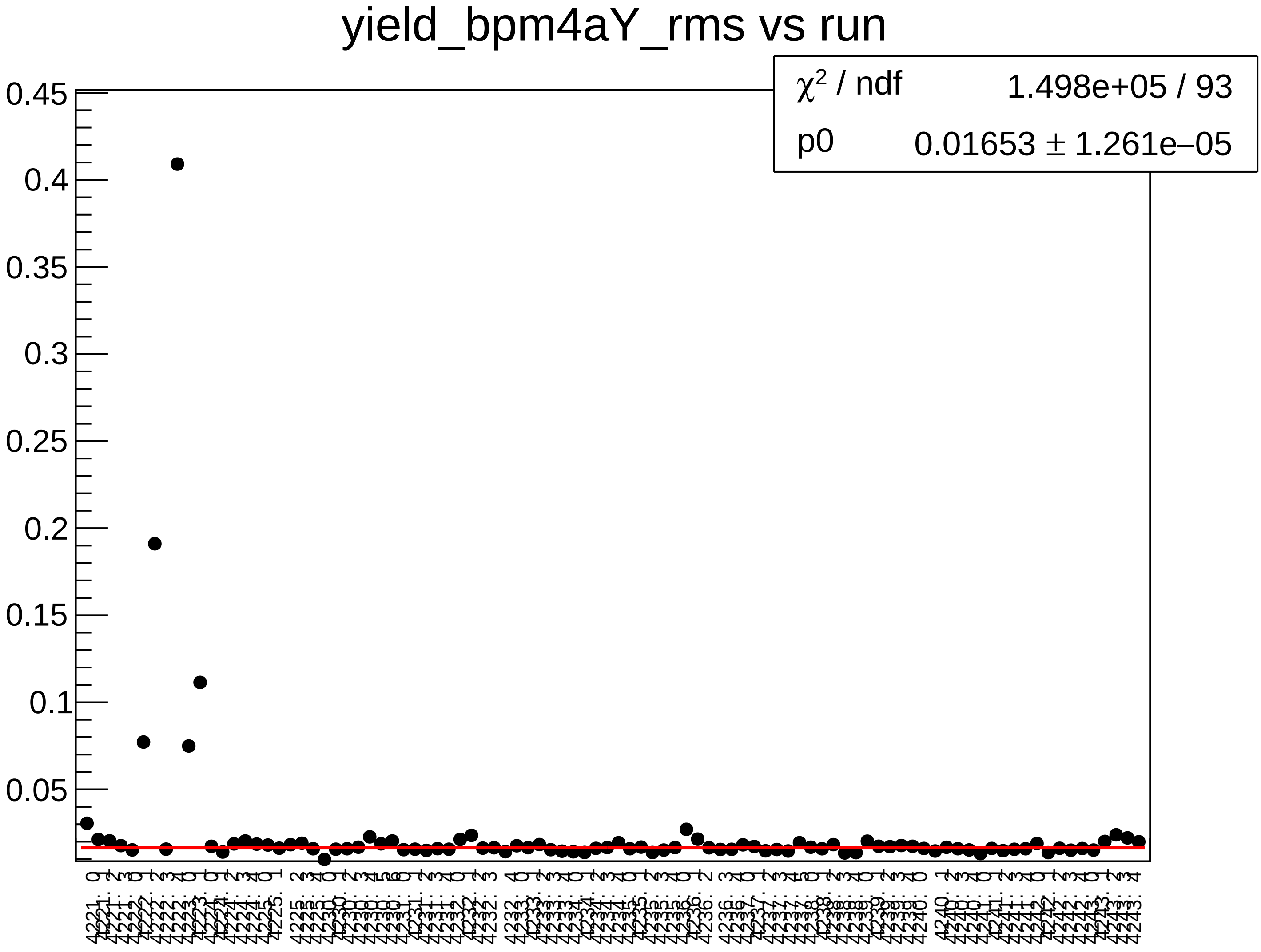
yield_bpm4aX_mean vs run
χ2 / ndf 5.791e+04 / 93
p0 −0.008113 ± 1.181e−05
pull
Entries 94
Mean 235
Std Dev 180.2
pull1D
Entries 94
Mean 0.6558
Std Dev 4.461



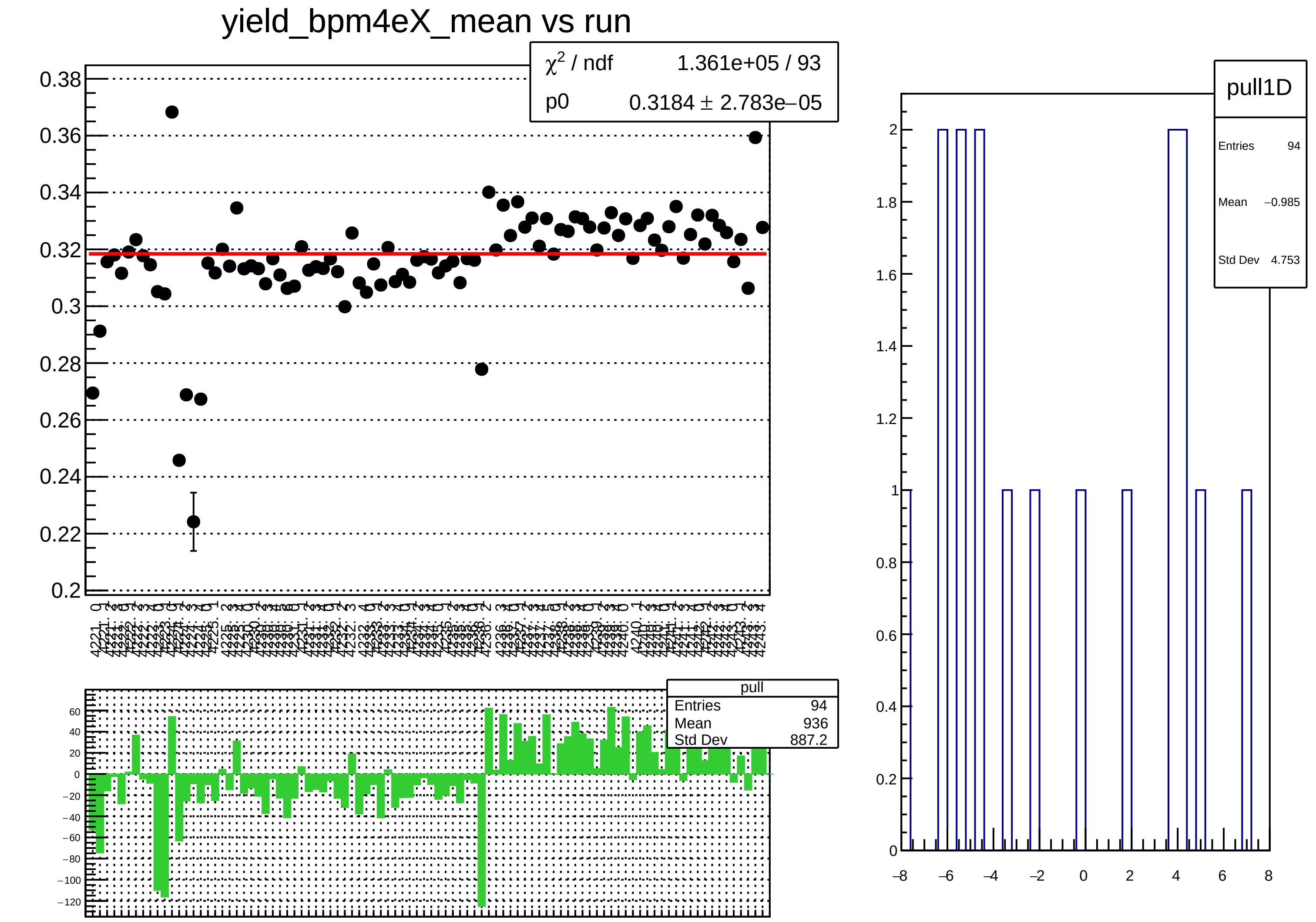
yield_bpm4aX_rms vs run
χ^2 / ndf 7.731e+04 / 93
p0 0.01117 ± 8.347e−06
0.12
0.1
0.08
0.06
0.04
0.02



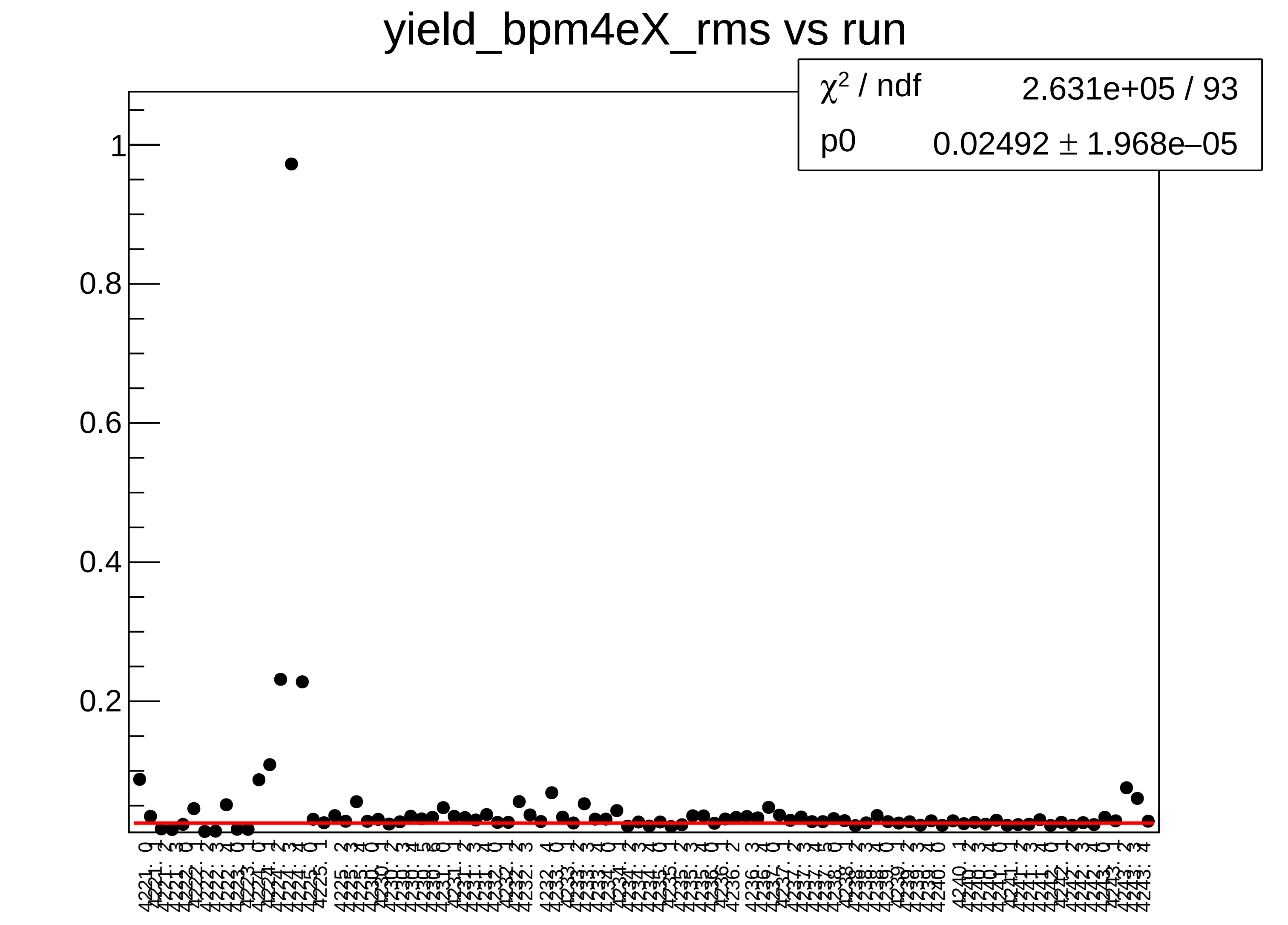
yield_bpm4aY_mean vs run
χ^2 / ndf 2.551e+05 / 93
p0 1.85 ± 1.784e−05
1.9
1.88
1.86
1.84
1.82
1.8
pull
Entries 94
Mean 400.7
Std Dev 352.3
100
50
0
−50
−100
−150
−200
−250
−300
pull1D
Entries 94
Mean 1.046
Std Dev 4.33
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



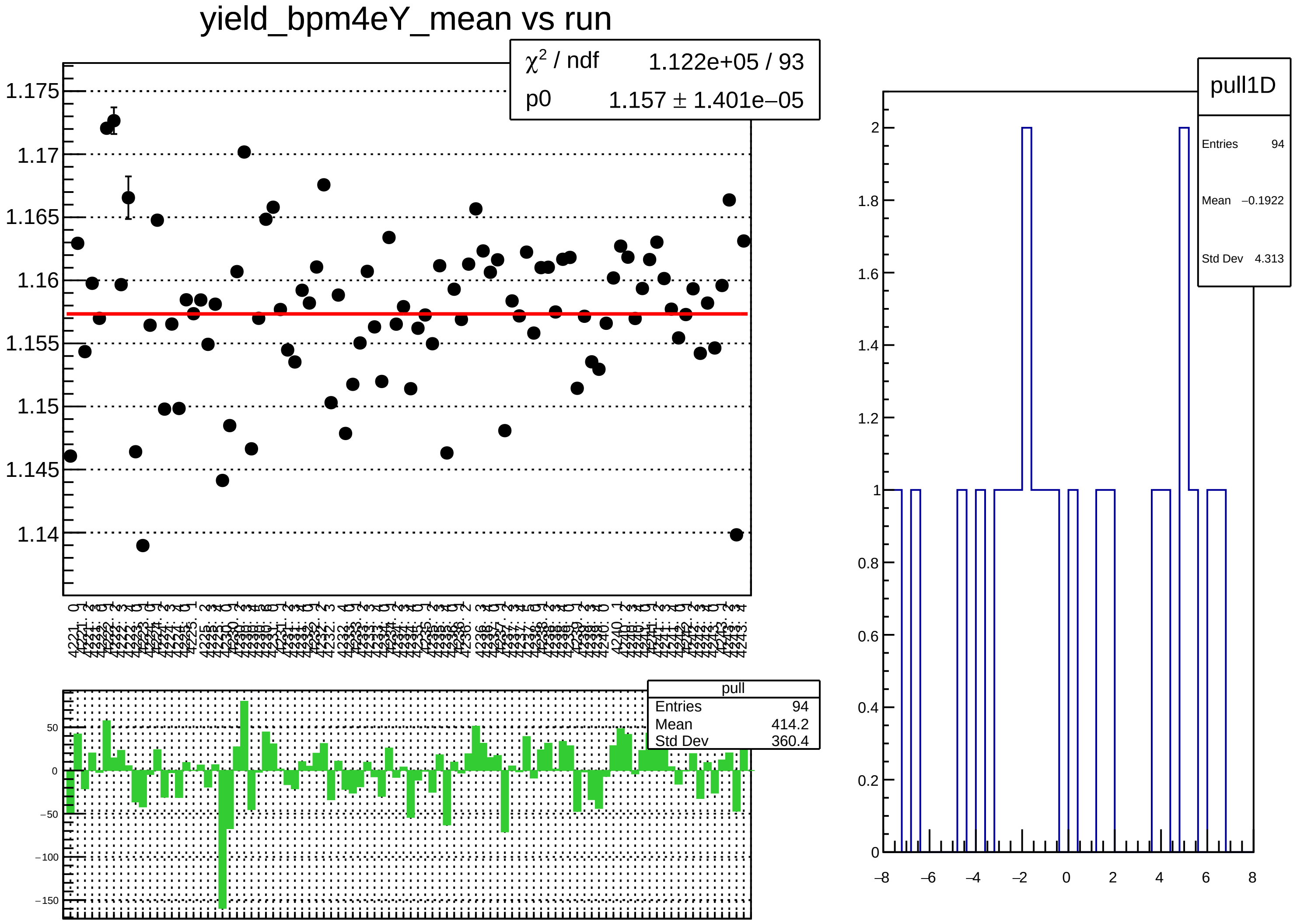
yield_bpm4aY_rms vs run
χ^2 / ndf 1.498e+05 / 93
p0 0.01653 ± 1.261e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05



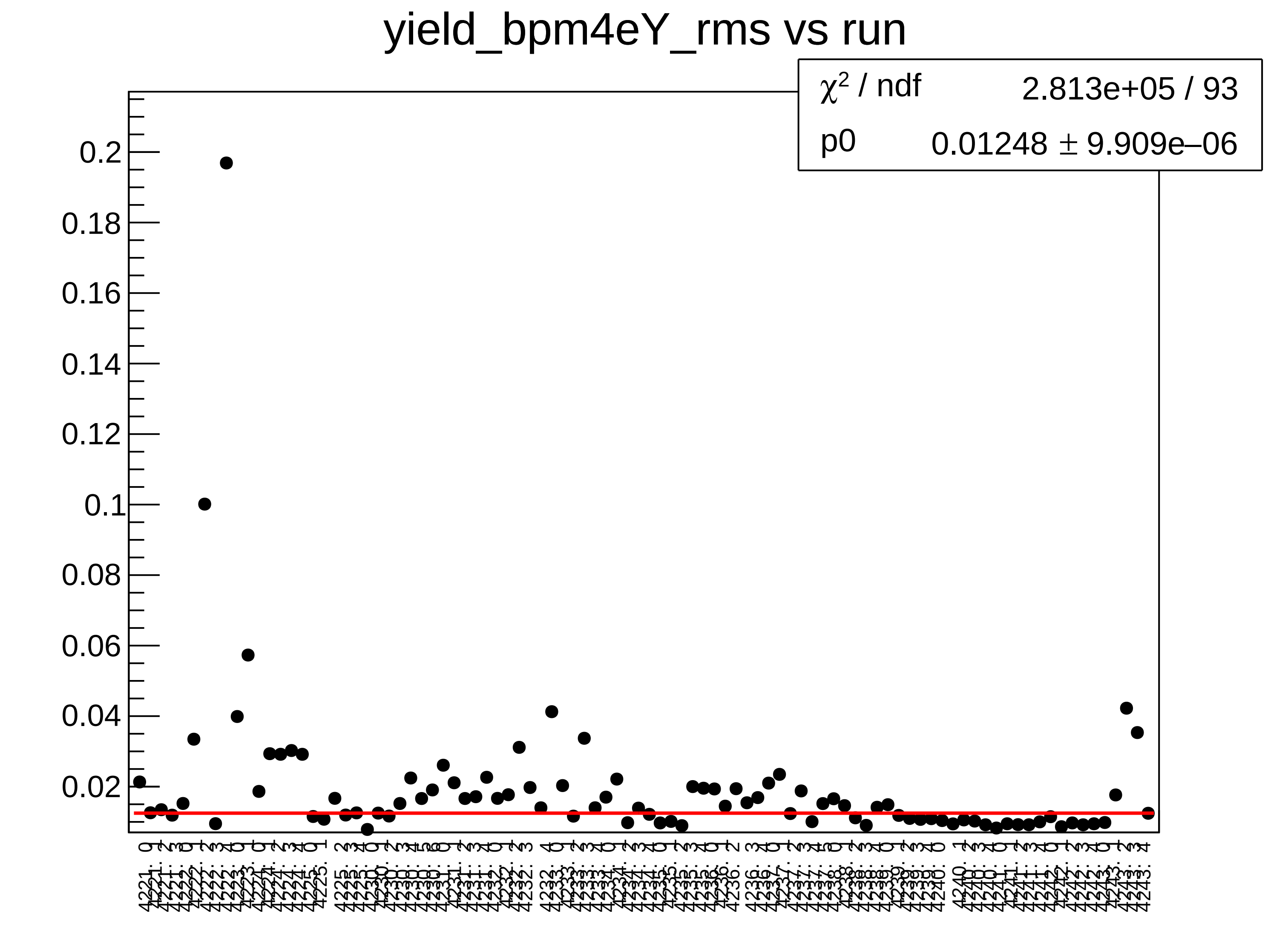
yield_bpm4eX_mean vs run
χ2 / ndf 1.361e+05 / 93
p0 0.3184 ± 2.783e−05
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
pull
Entries 94
Mean 936
Std Dev 887.2
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 94
Mean −0.985
Std Dev 4.753
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



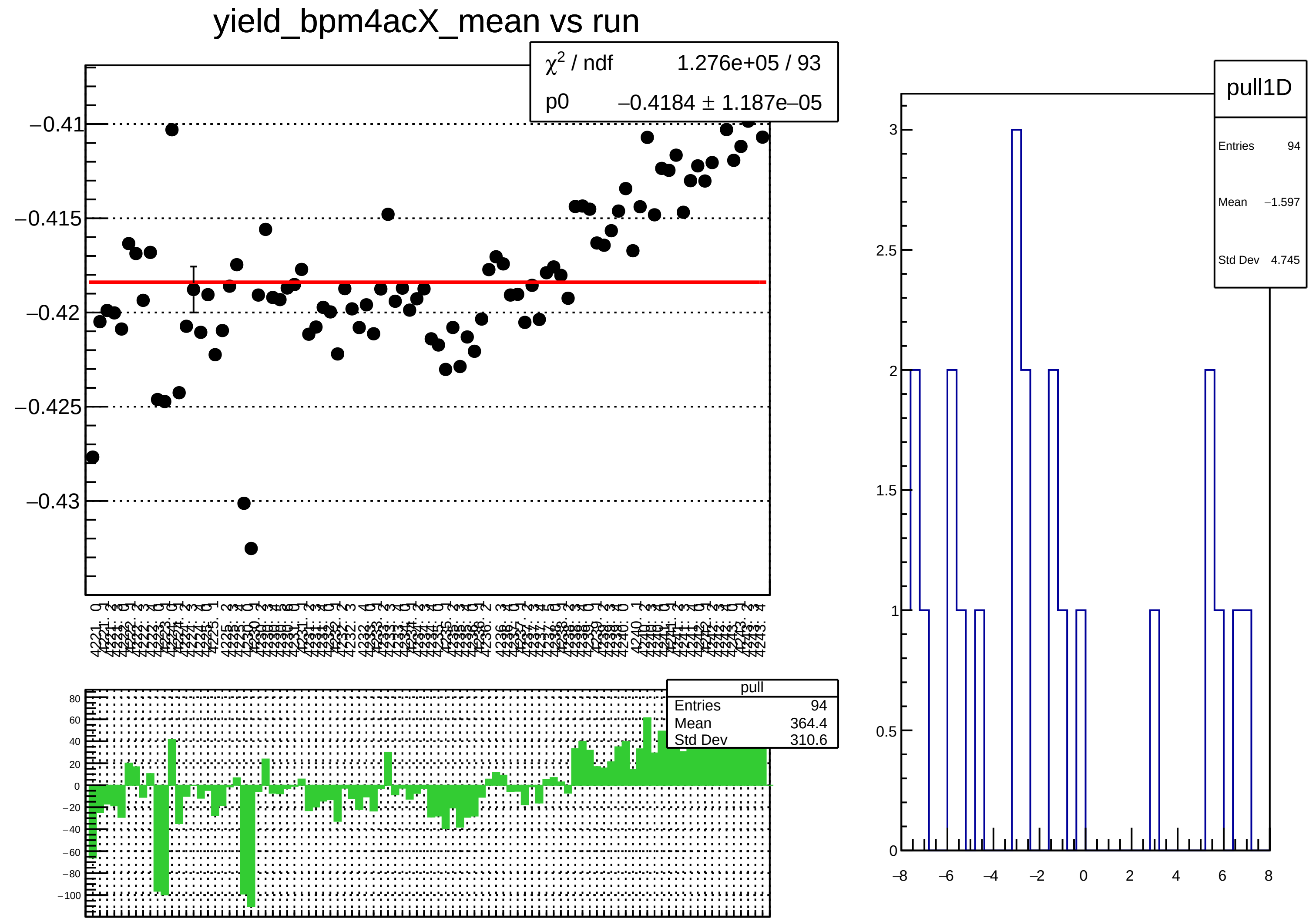
yield_bpm4eX_rms vs run
χ2 / ndf 2.631e+05 / 93
p0 0.02492 ± 1.968e−05
1
0.8
0.6
0.4
0.2



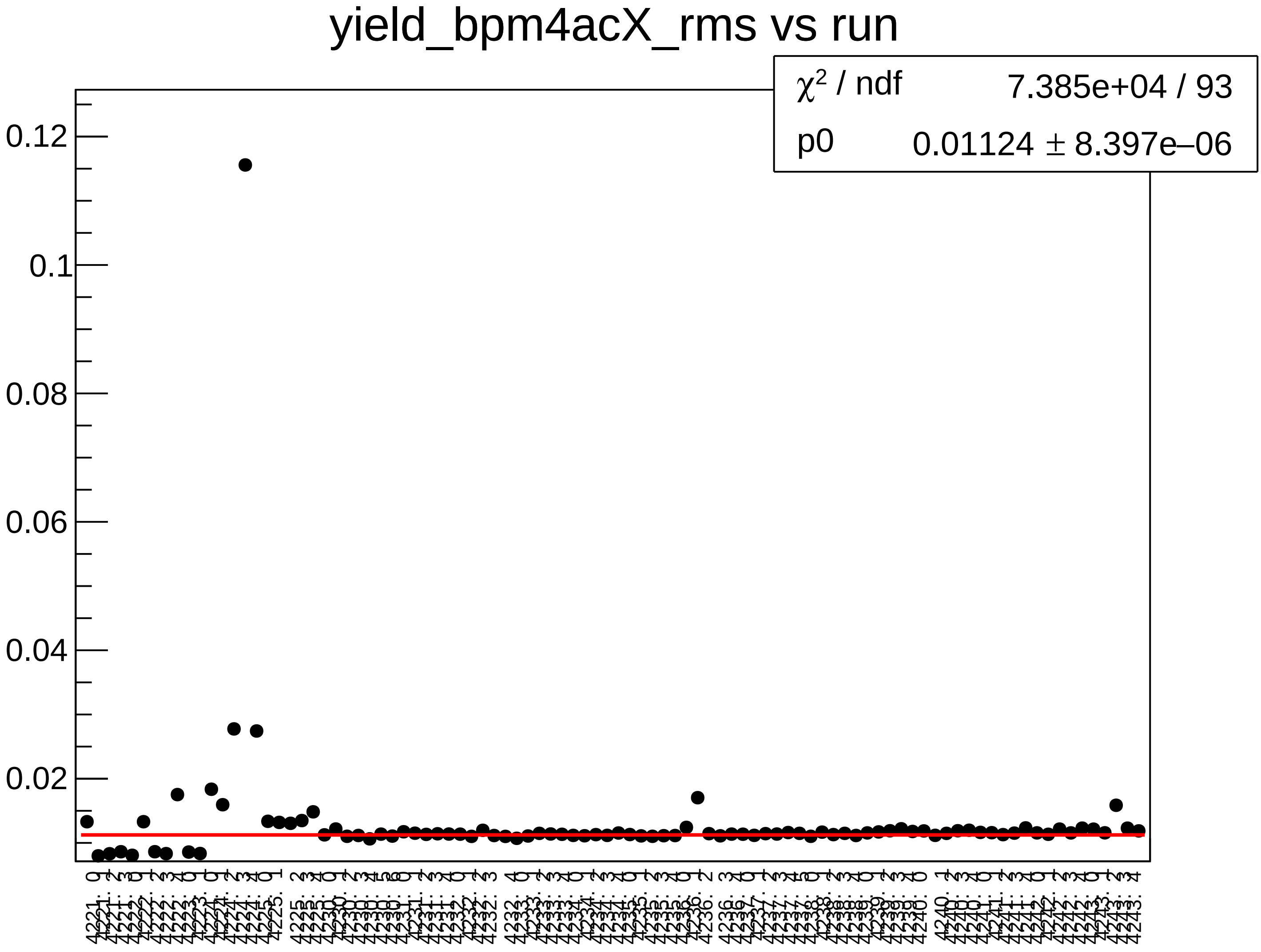
yield_bpm4eY_mean vs run
χ^2 / ndf 1.122e+05 / 93
p0 1.157 ± 1.401e−05
pull
Entries 94
Mean 414.2
Std Dev 360.4
pull1D
Entries 94
Mean −0.1922
Std Dev 4.313

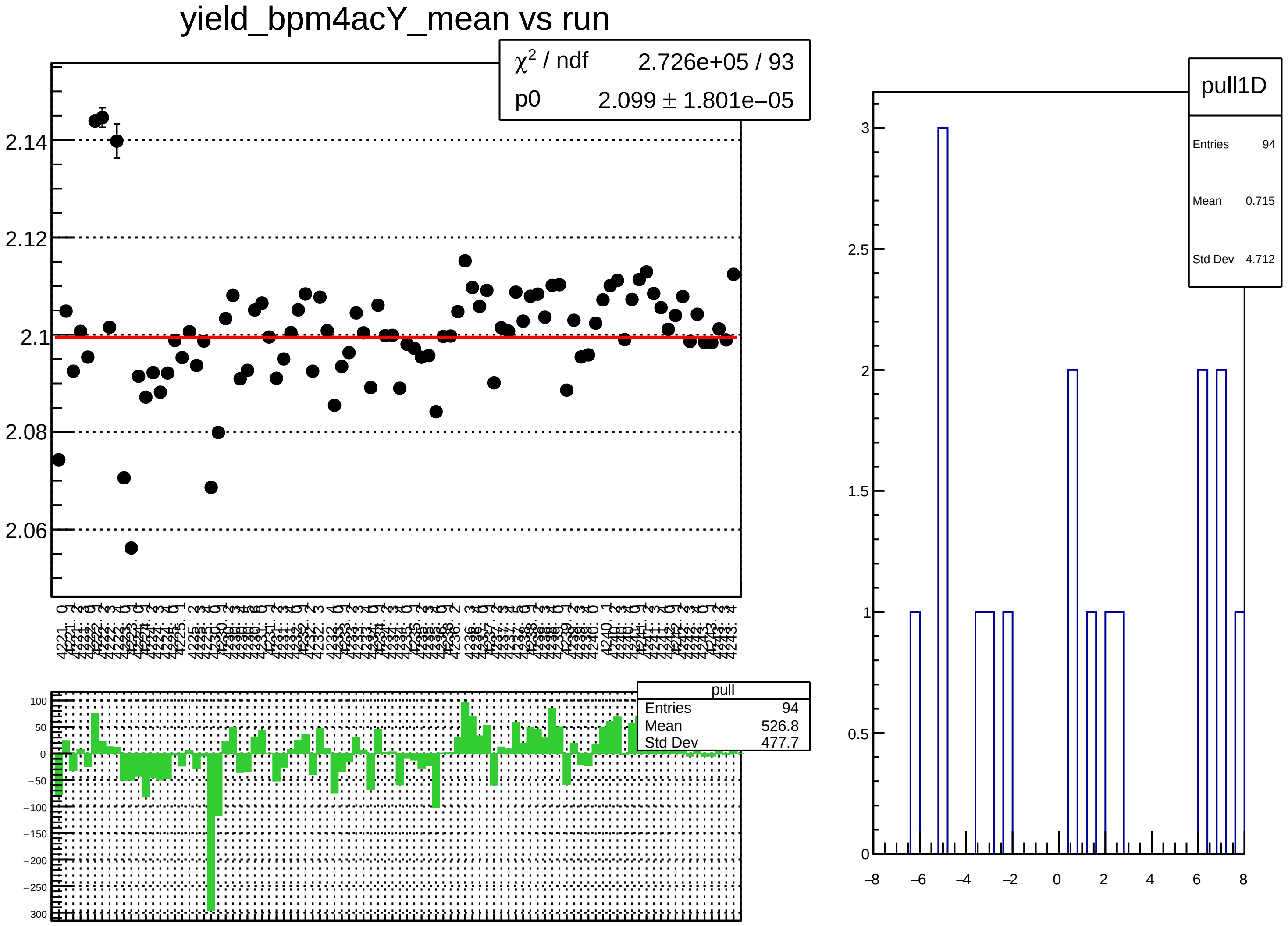


yield_bpm4eY_rms vs run
χ2 / ndf 2.813e+05 / 93
p0 0.01248 ± 9.909e−06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02



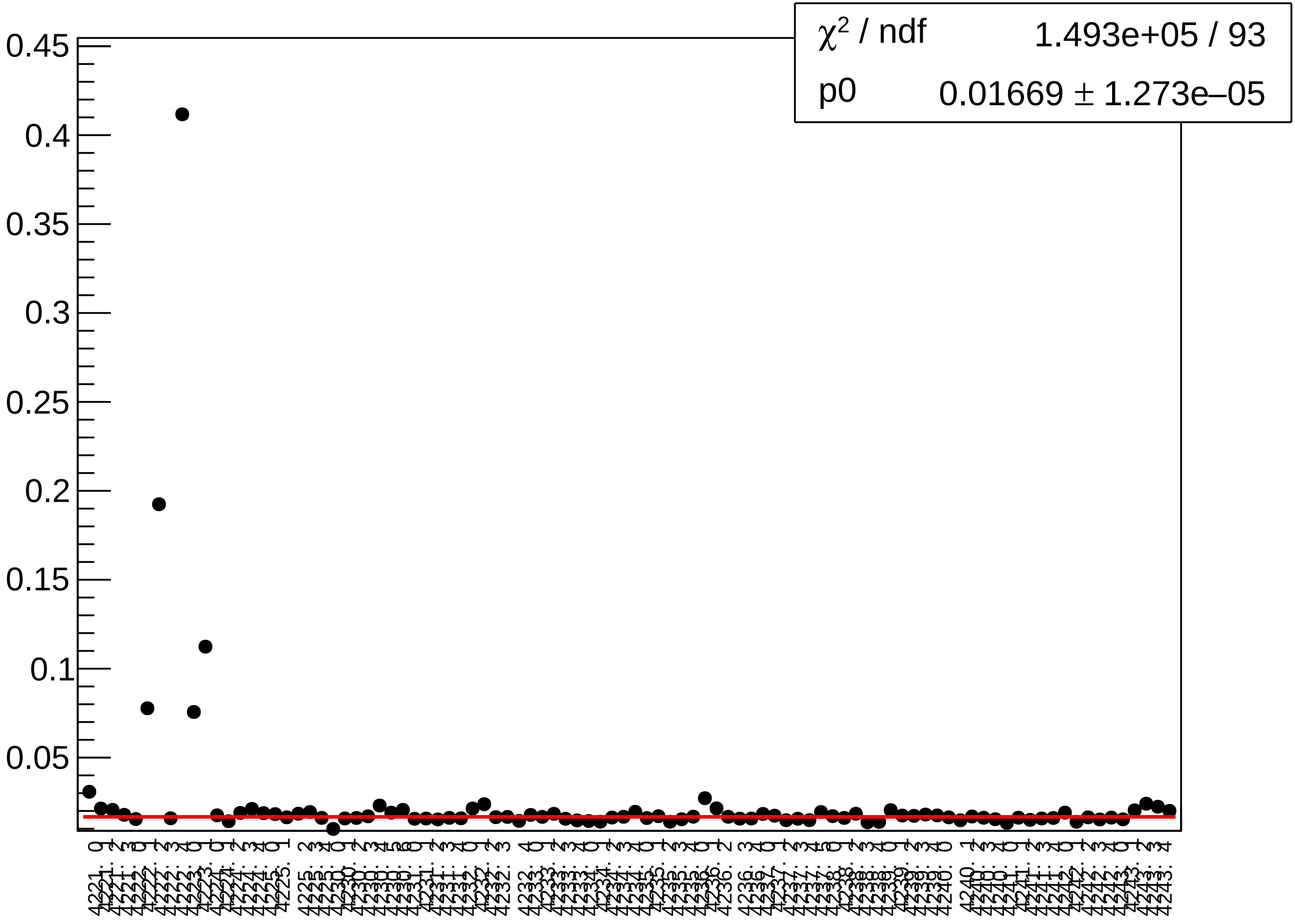
yield_bpm4acX_mean vs run
χ2 / ndf 1.276e+05 / 93
p0 −0.4184 ± 1.187e−05
pull
Entries 94
Mean 364.4
Std Dev 310.6
pull1D
Entries 94
Mean −1.597
Std Dev 4.745

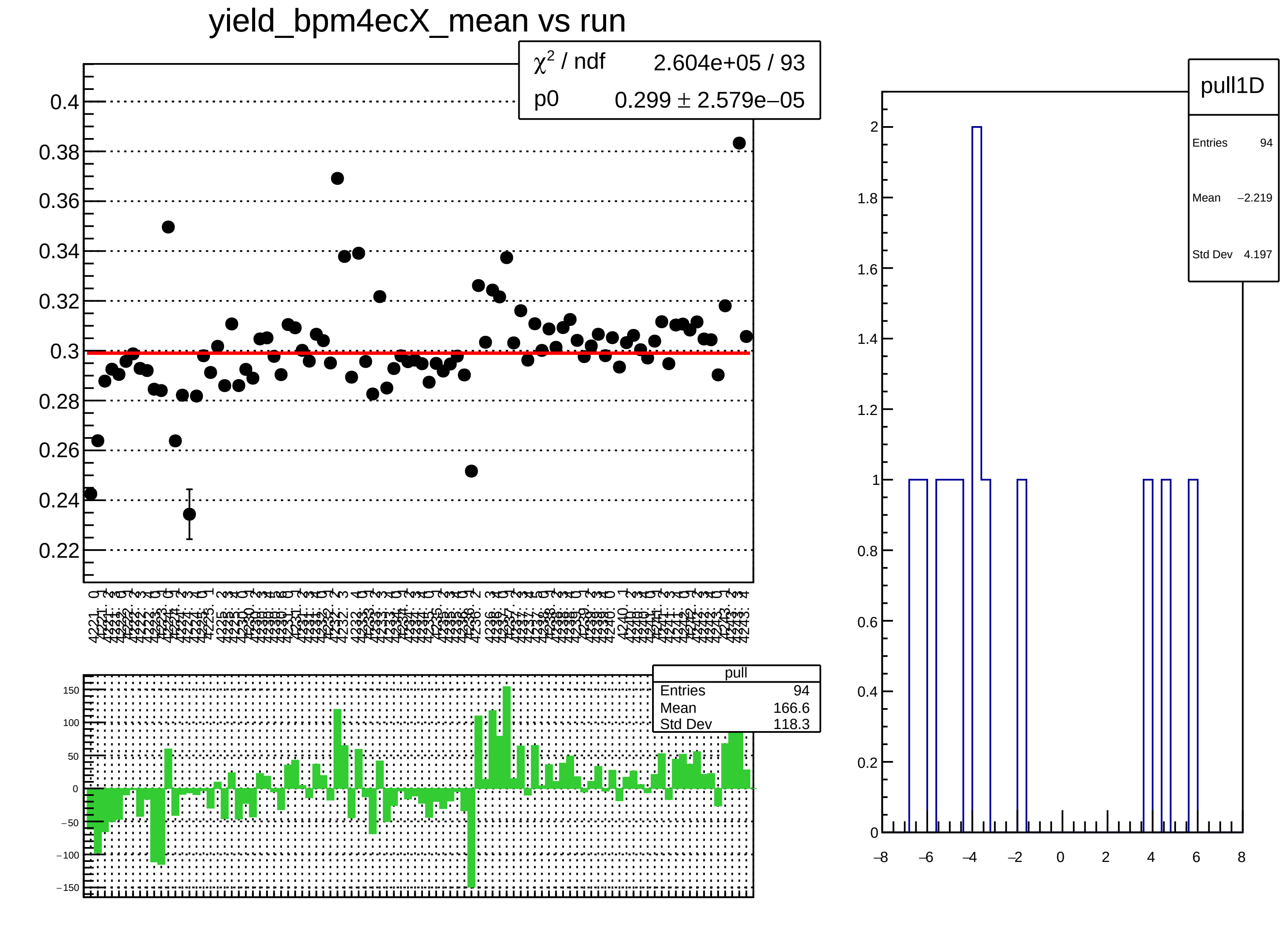

yield_bpm4acX_rms vs run
χ² / ndf 7.385e+04 / 93
p0 0.01124 ± 8.397e−06
0.12
0.1
0.08
0.06
0.04
0.02

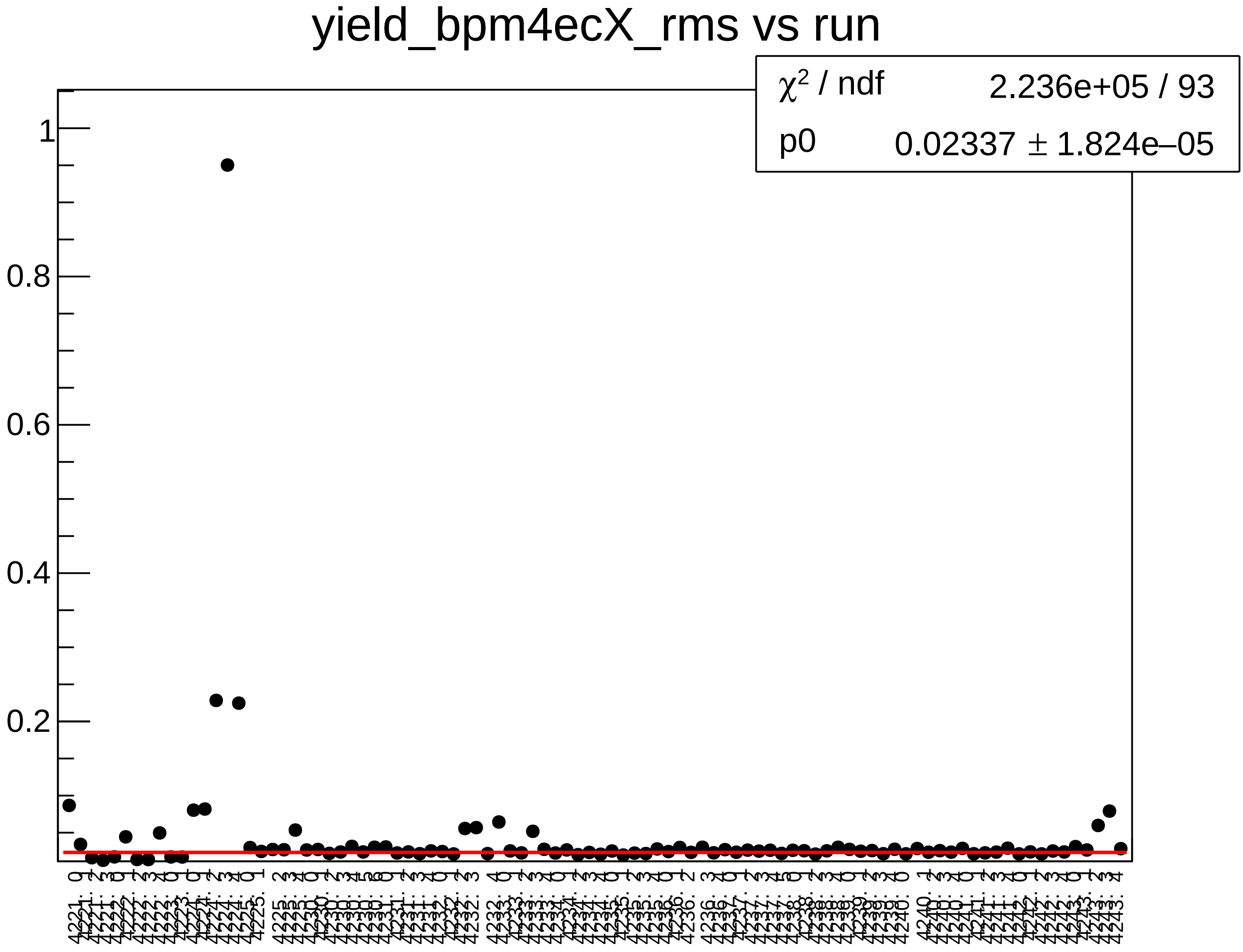


yield_bpm4acY_mean vs run
χ^2 / ndf 2.726e+05 / 93
p0 2.099 ± 1.801e−05
2.14
2.12
2.1
2.08
2.06
pull
Entries 94
Mean 526.8
Std Dev 477.7
100
50
0
−50
−100
−150
−200
−250
−300
pull1D
Entries 94
Mean 0.715
Std Dev 4.712
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

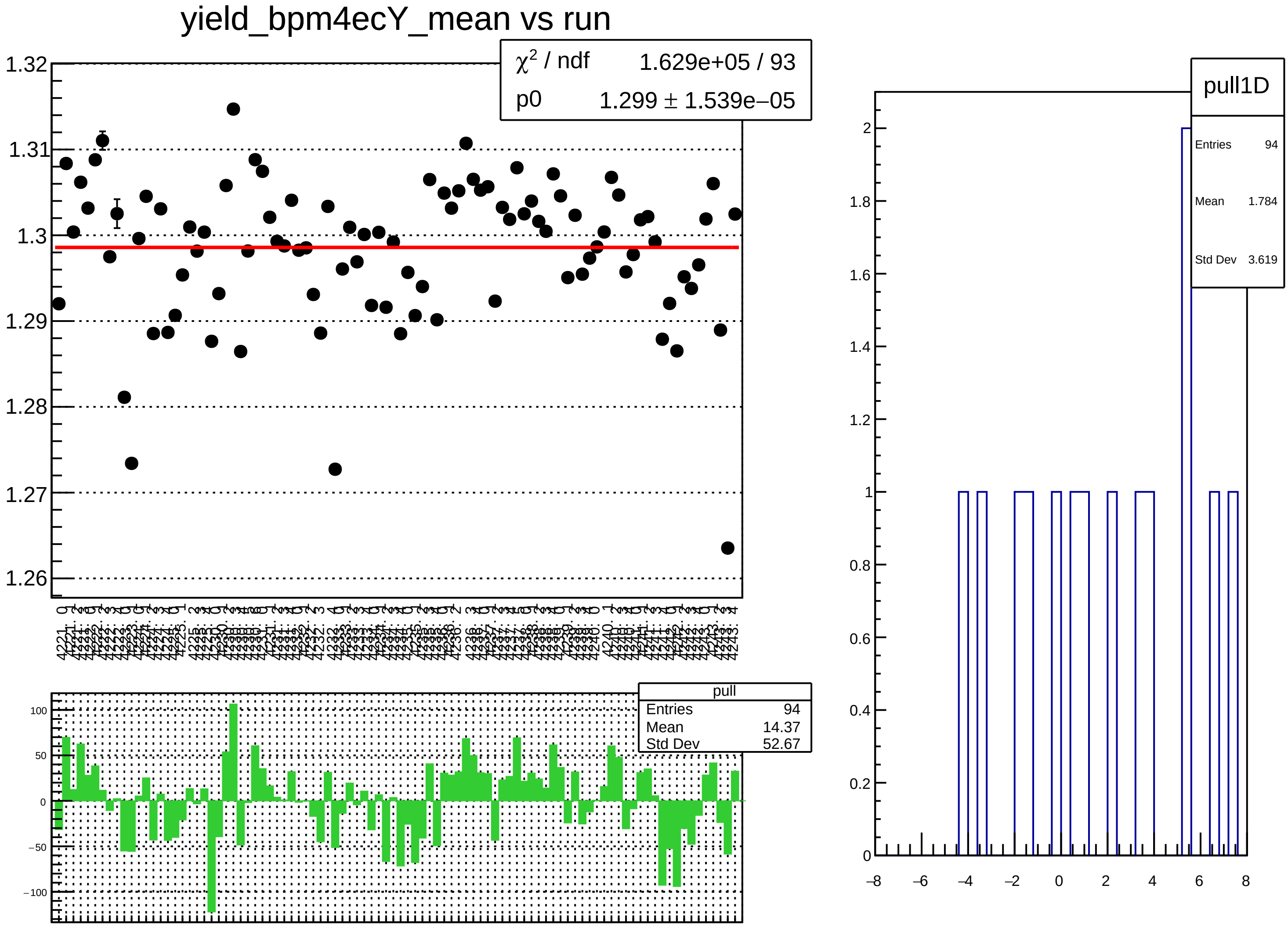
yield_bpm4acY_rms vs run



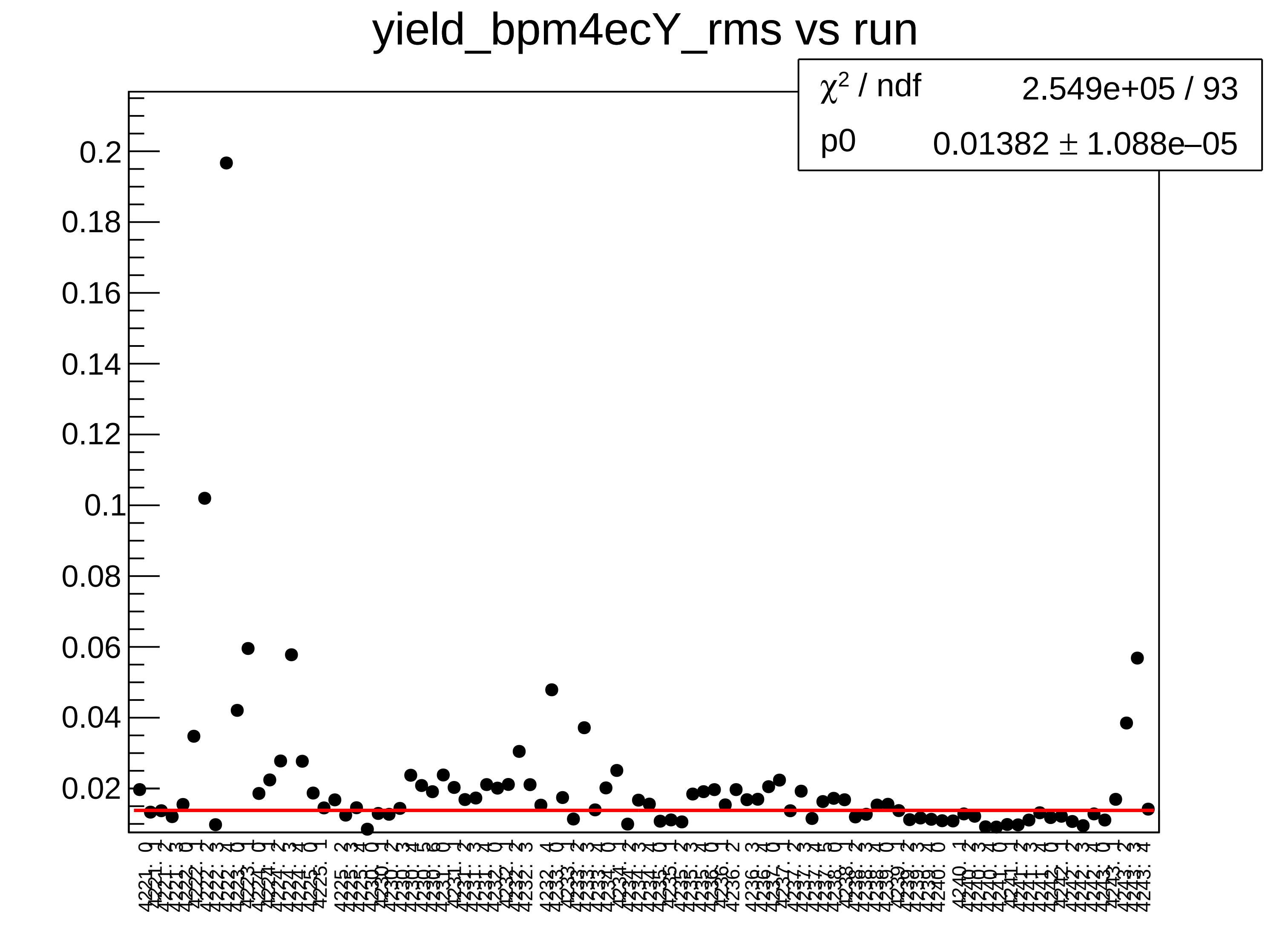

yield_bpm4ecX_mean vs run
χ^2 / ndf 2.604e+05 / 93
p0 0.299 ± 2.579e−05
pull
Entries 94
Mean 166.6
Std Dev 118.3
pull1D
Entries 94
Mean −2.219
Std Dev 4.197

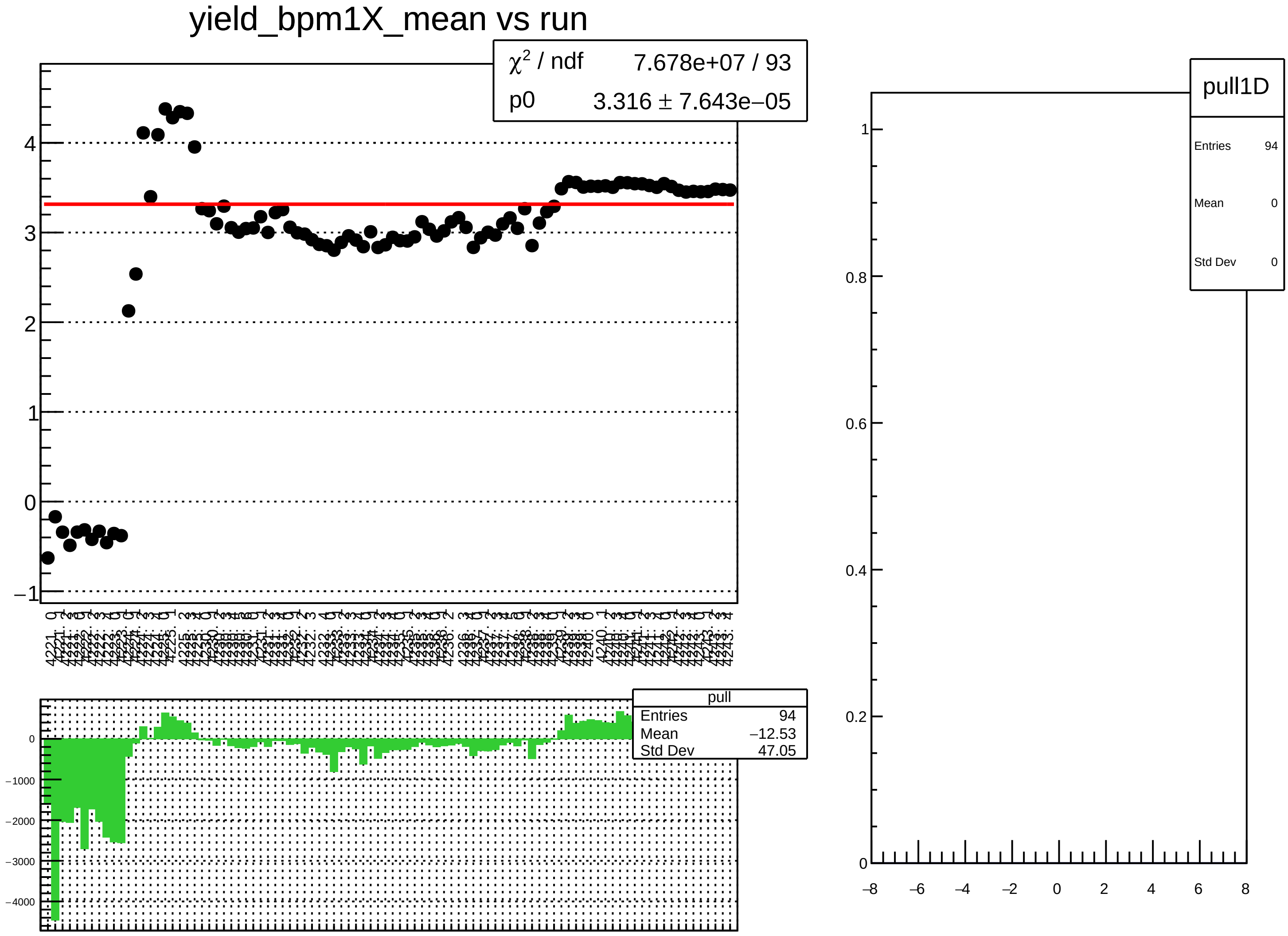


yield_bpm4ecX_rms vs run
χ² / ndf 2.236e+05 / 93
p0 0.02337 ± 1.824e−05
1
0.8
0.6
0.4
0.2

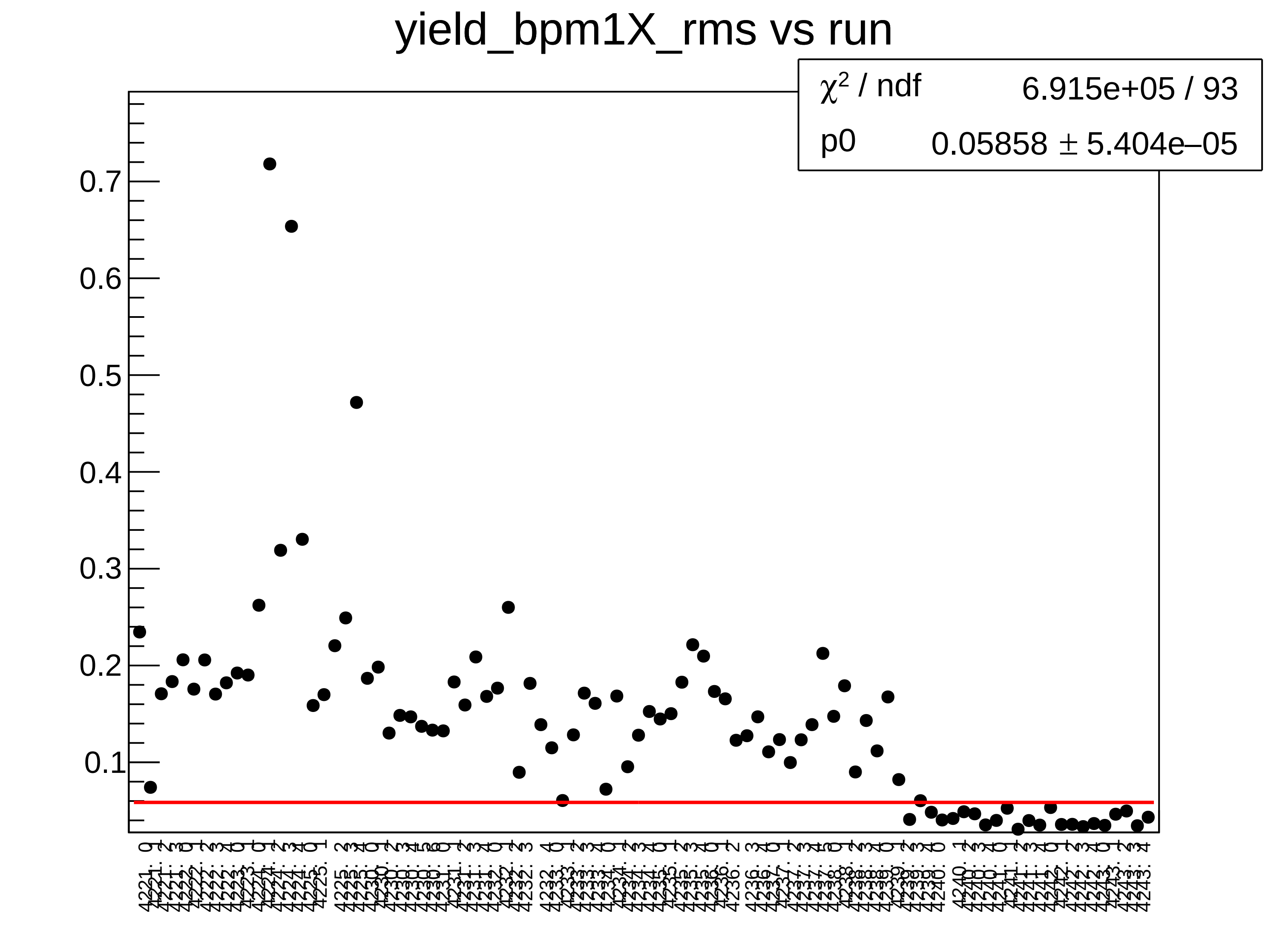


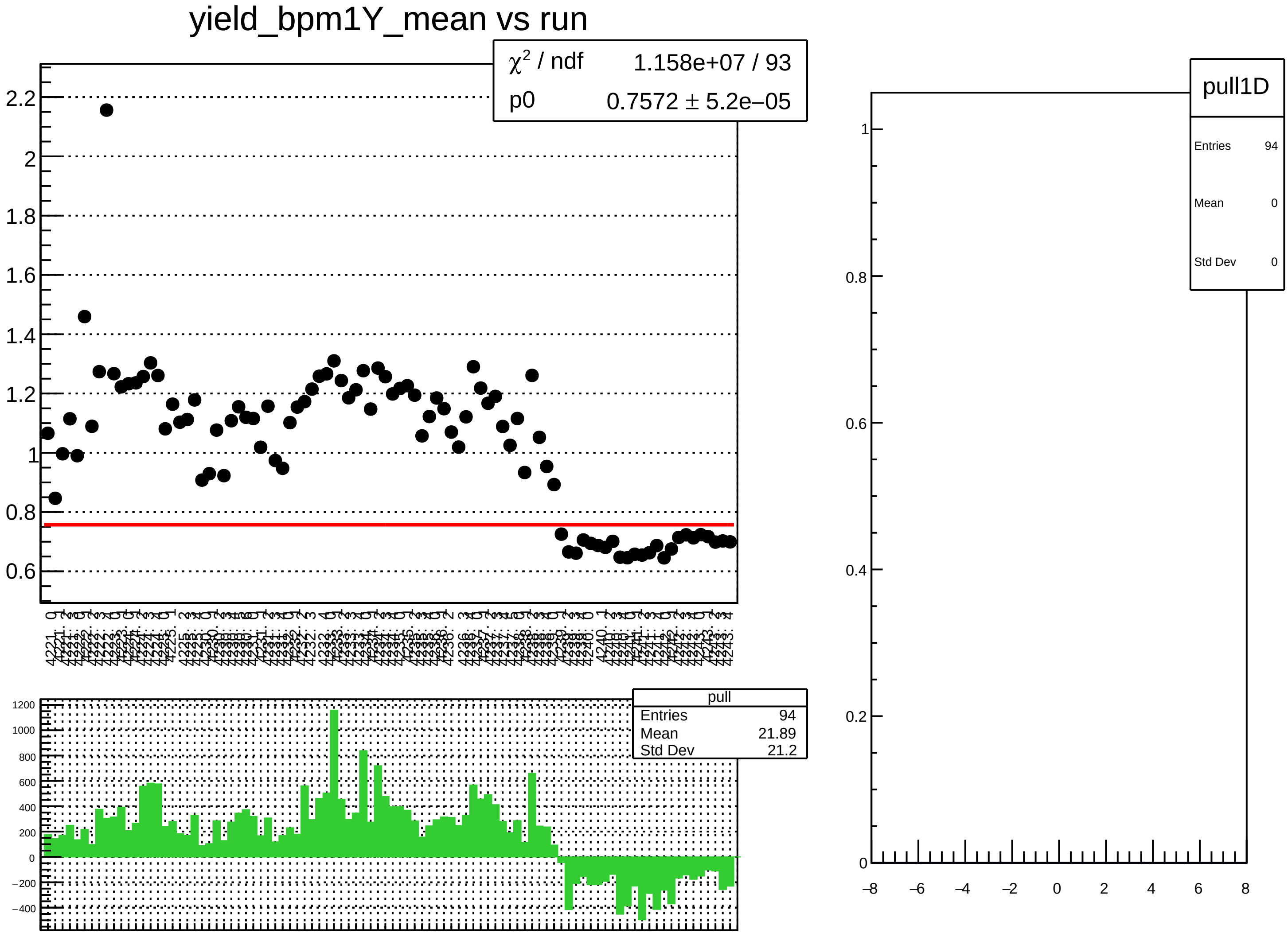
yield_bpm4ecY_mean vs run
χ^2 / ndf 1.629e+05 / 93
p0 1.299 ± 1.539e−05
pull
Entries 94
Mean 14.37
Std Dev 52.67
pull1D
Entries 94
Mean 1.784
Std Dev 3.619


yield_bpm4ecY_rms vs run
χ² / ndf 2.549e+05 / 93
p0 0.01382 ± 1.088e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

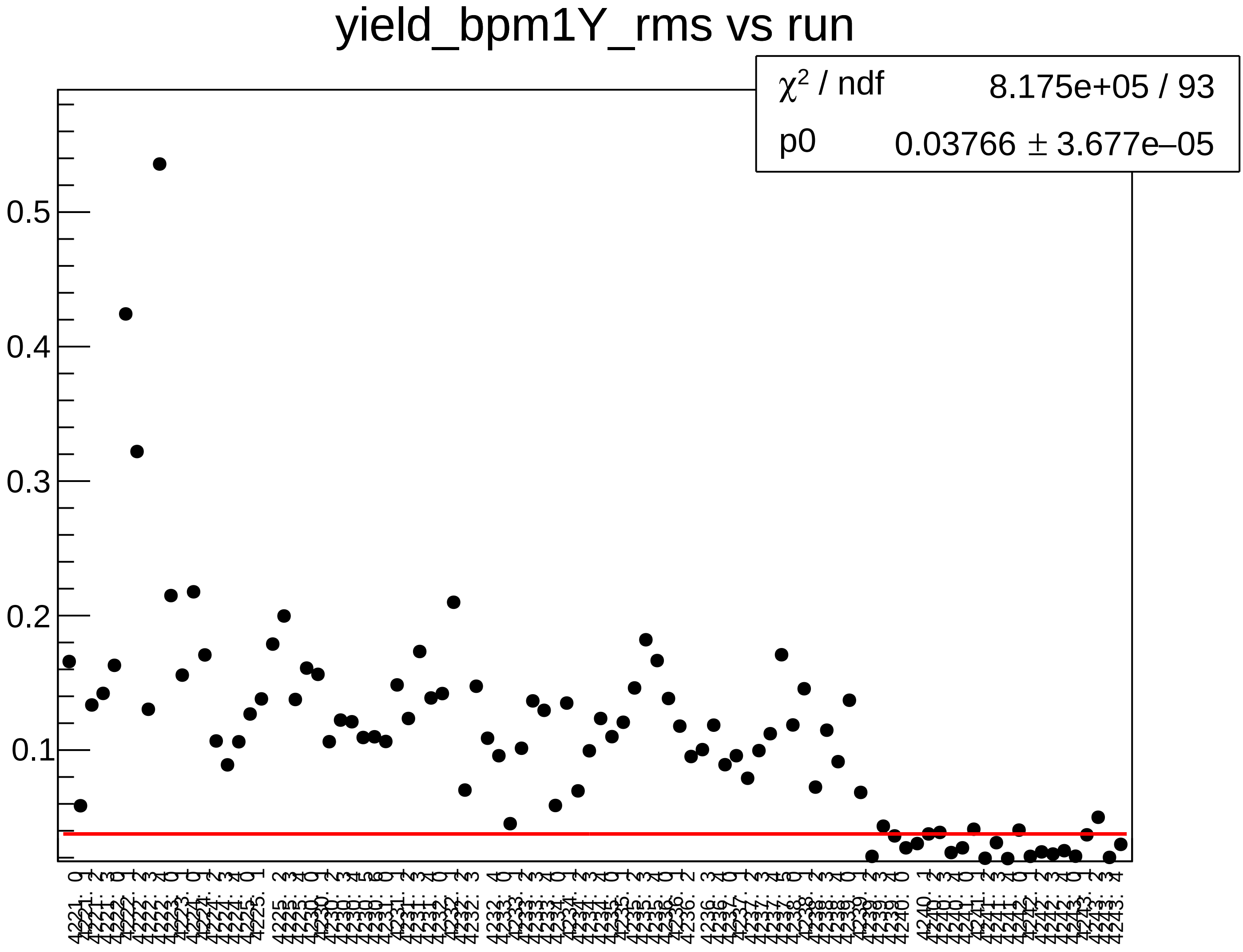


yield_bpm1X_mean vs run
χ2 / ndf 7.678e+07 / 93
p0 3.316 ± 7.643e−05
pull
Entries 94
Mean −12.53
Std Dev 47.05
pull1D
Entries 94
Mean 0
Std Dev 0

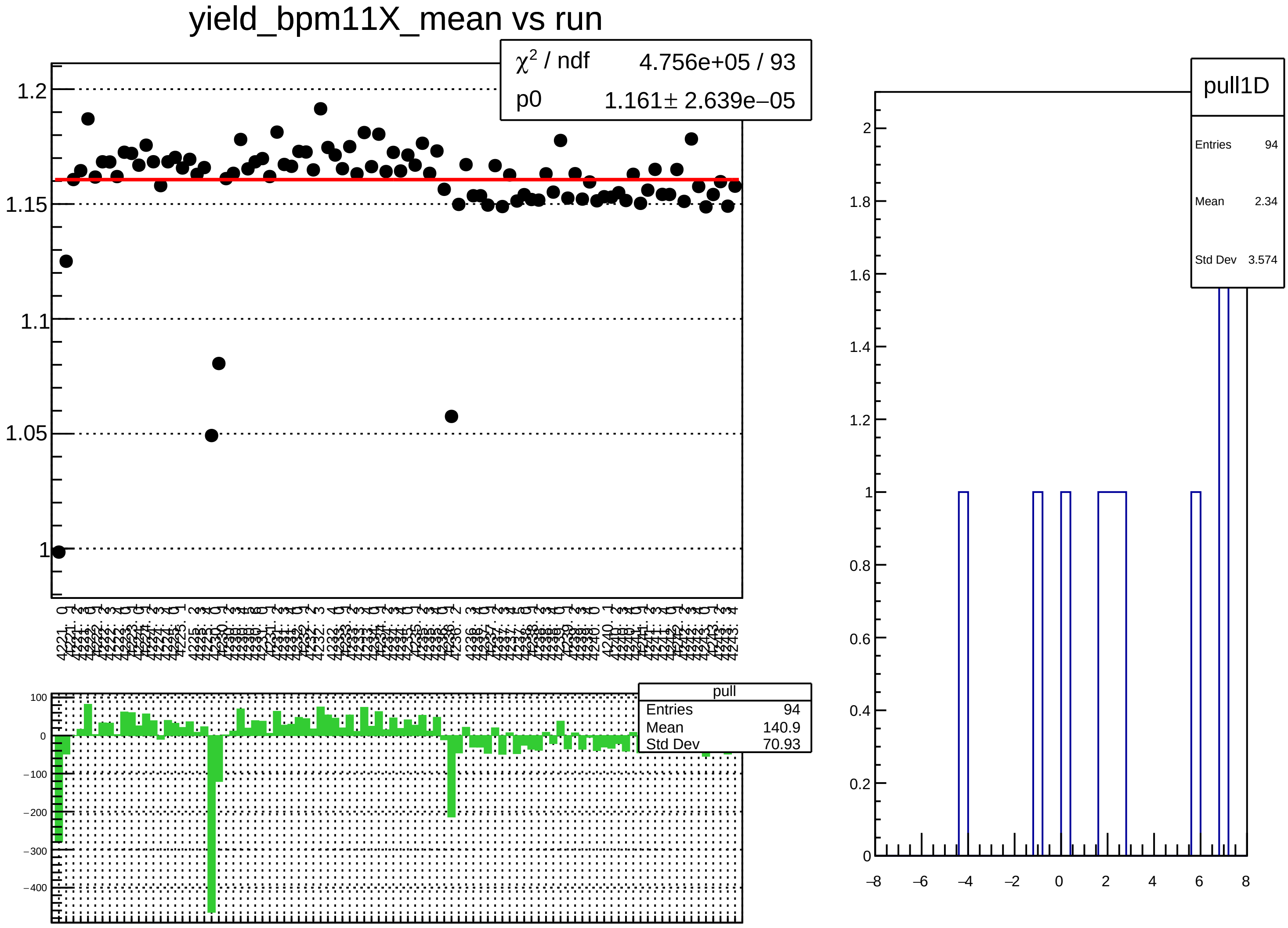

yield_bpm1X_rms vs run
χ^2 / ndf 6.915e+05 / 93
p0 0.05858 ± 5.404e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1



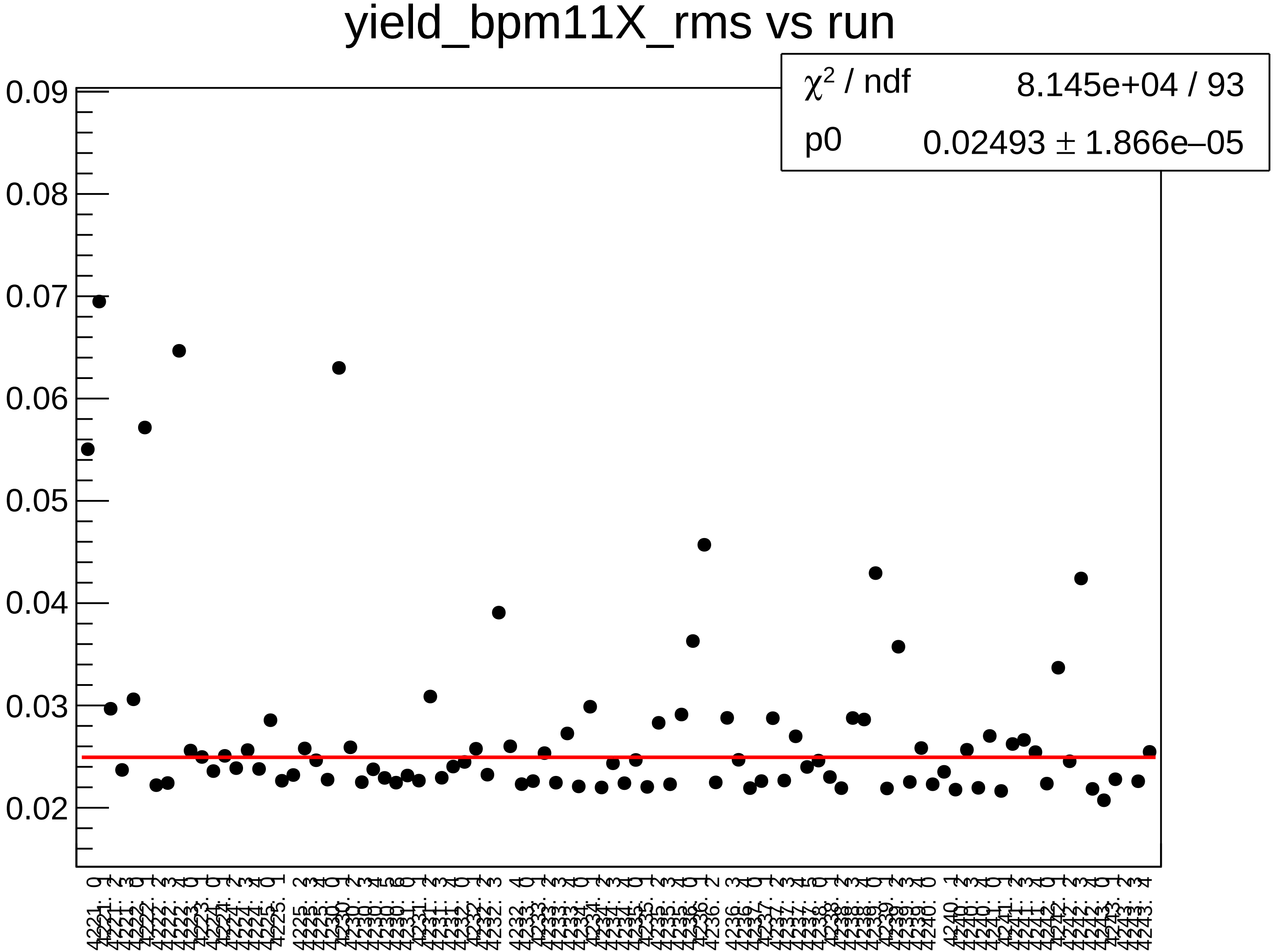
yield_bpm1Y_mean vs run
χ^2 / ndf 1.158e+07 / 93
p0 0.7572 ± 5.2e−05
pull
Entries 94
Mean 21.89
Std Dev 21.2
pull1D
Entries 94
Mean 0
Std Dev 0



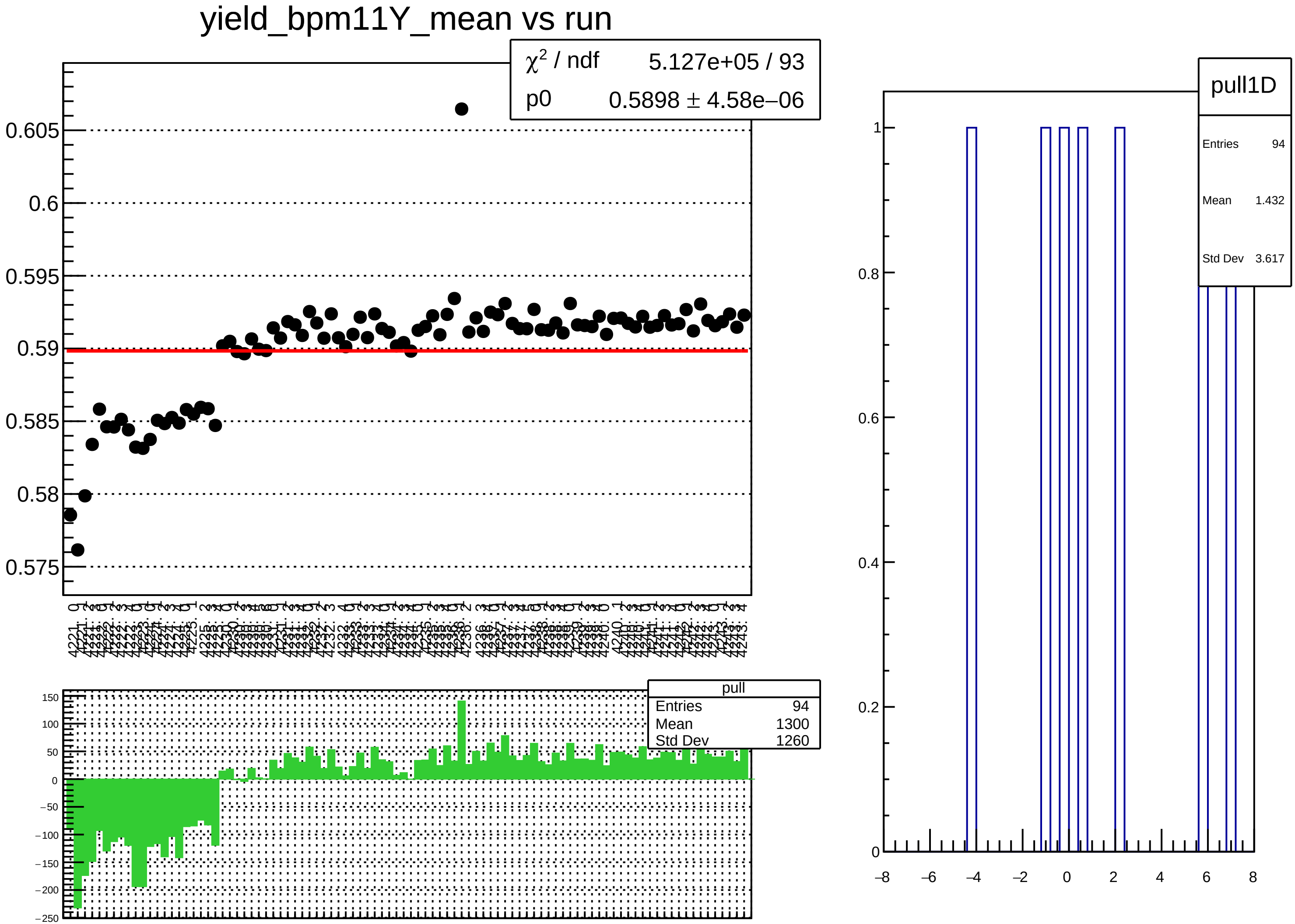
yield_bpm1Y_rms vs run
χ2 / ndf 8.175e+05 / 93
p0 0.03766 ± 3.677e−05
0.1
0.2
0.3
0.4
0.5



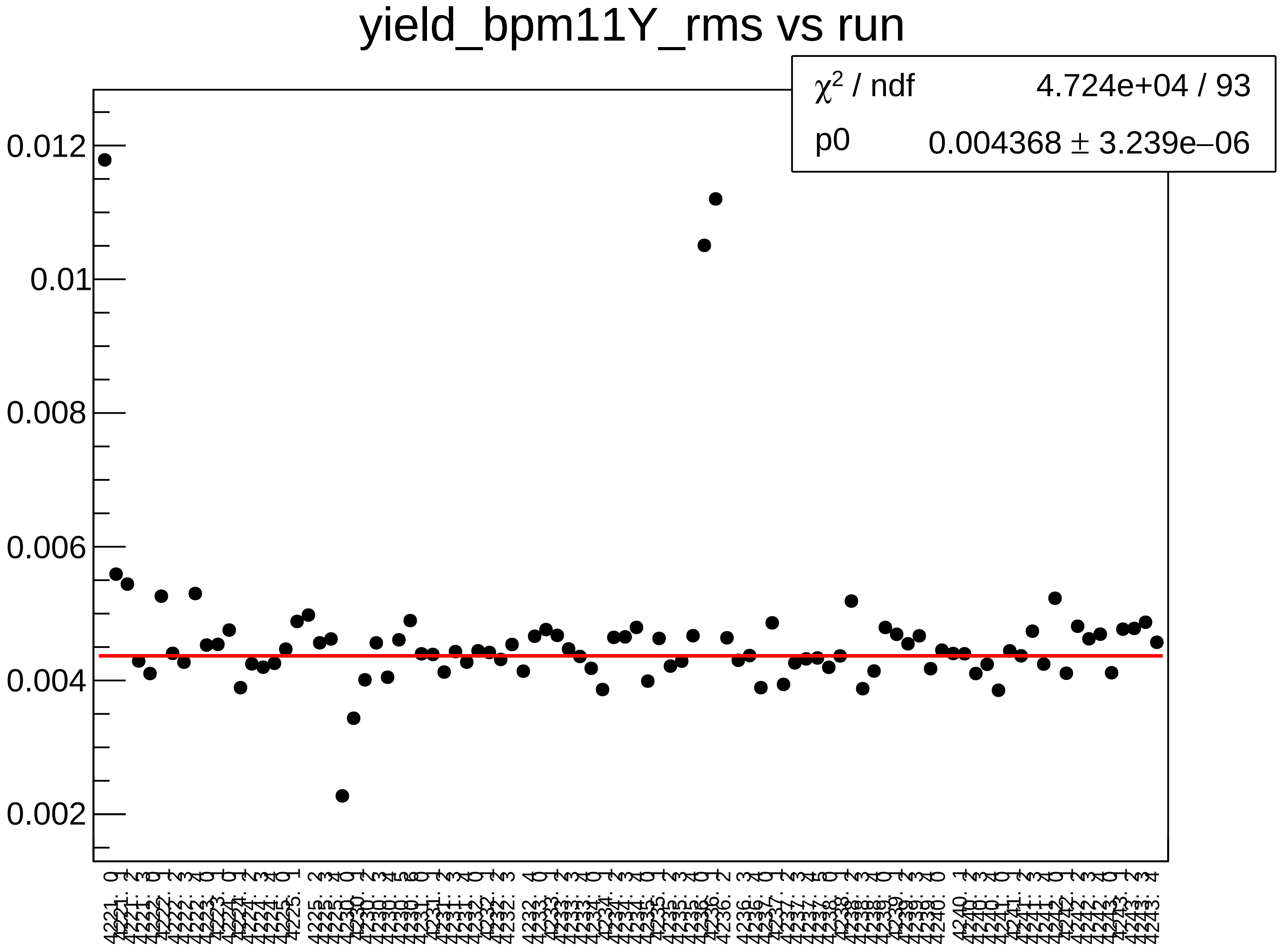
yield_bpm11X_mean vs run
χ^2 / ndf 4.756e+05 / 93
p0 1.161± 2.639e−05
pull
Entries 94
Mean 140.9
Std Dev 70.93
pull1D
Entries 94
Mean 2.34
Std Dev 3.574



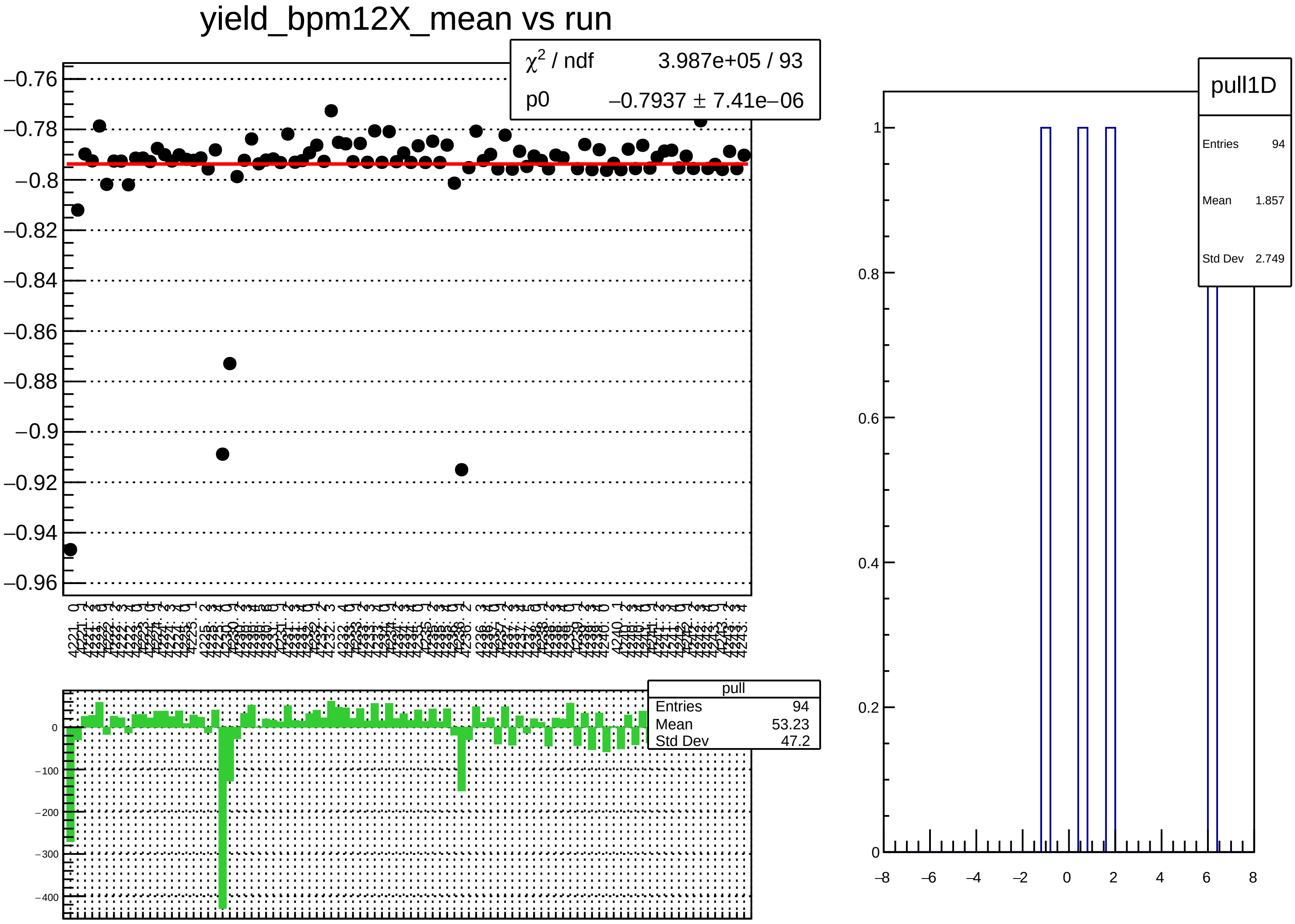
yield_bpm11X_rms vs run
χ2 / ndf 8.145e+04 / 93
p0 0.02493 ± 1.866e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02



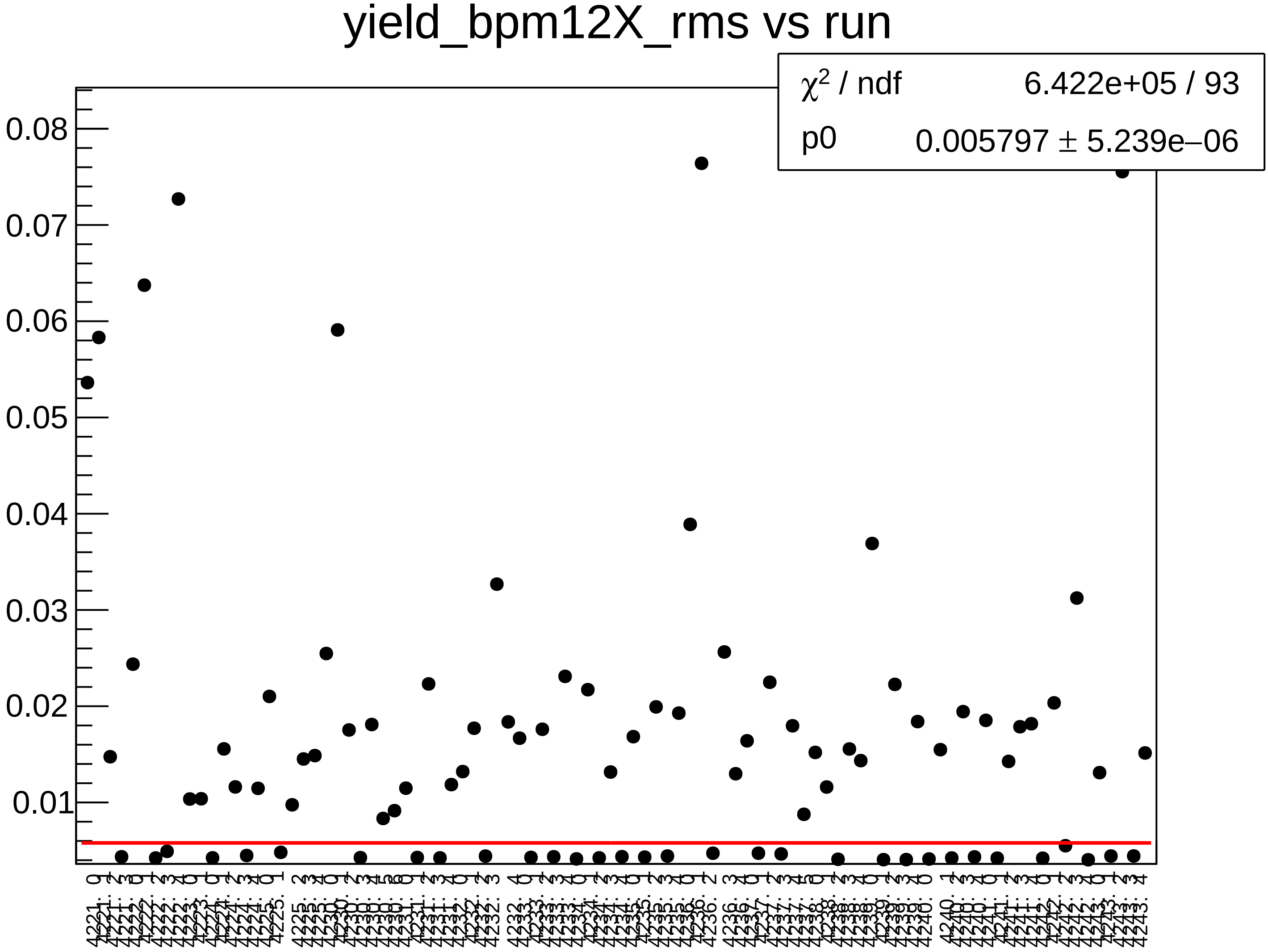
yield_bpm11Y_mean vs run
χ2 / ndf 5.127e+05 / 93
p0 0.5898 ± 4.58e−06
pull
Entries 94
Mean 1300
Std Dev 1260
pull1D
Entries 94
Mean 1.432
Std Dev 3.617



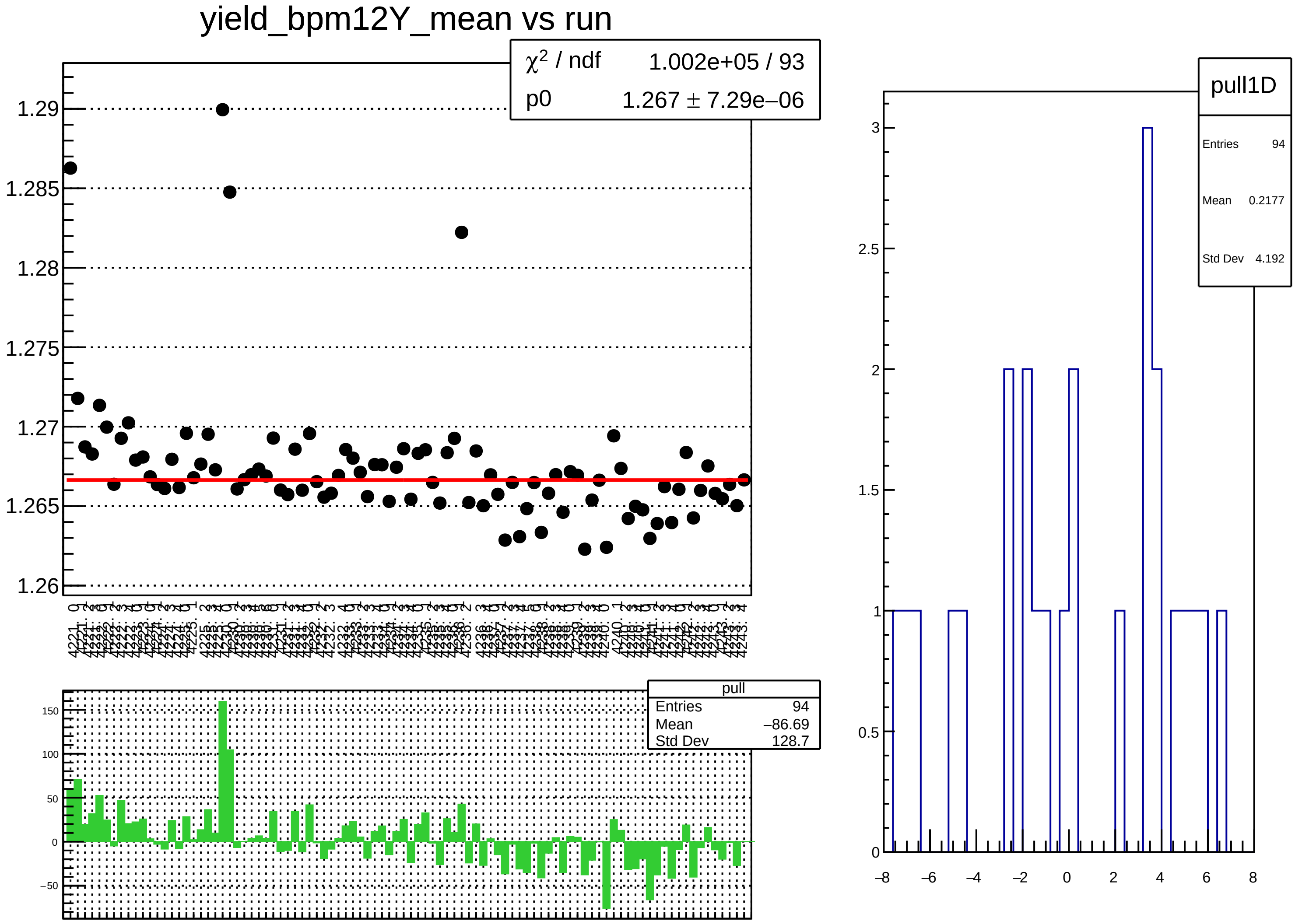
yield_bpm11Y_rms vs run
χ^2 / ndf 4.724e+04 / 93
p0 0.004368 ± 3.239e−06
0.012
0.01
0.008
0.006
0.004
0.002



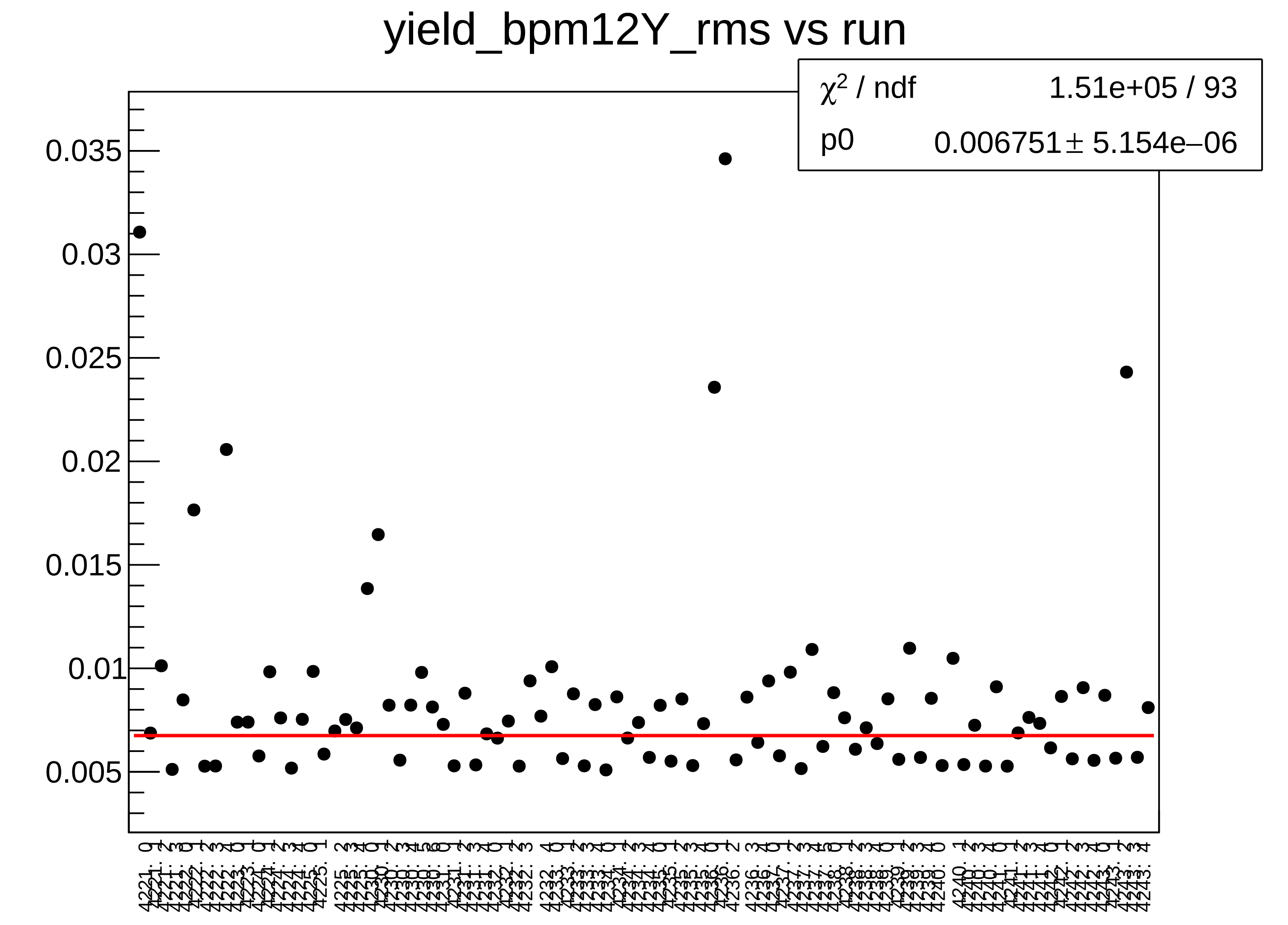
yield_bpm12X_mean vs run
χ2 / ndf 3.987e+05 / 93
p0 −0.7937 ± 7.41e−06
pull
Entries 94
Mean 53.23
Std Dev 47.2
pull1D
Entries 94
Mean 1.857
Std Dev 2.749

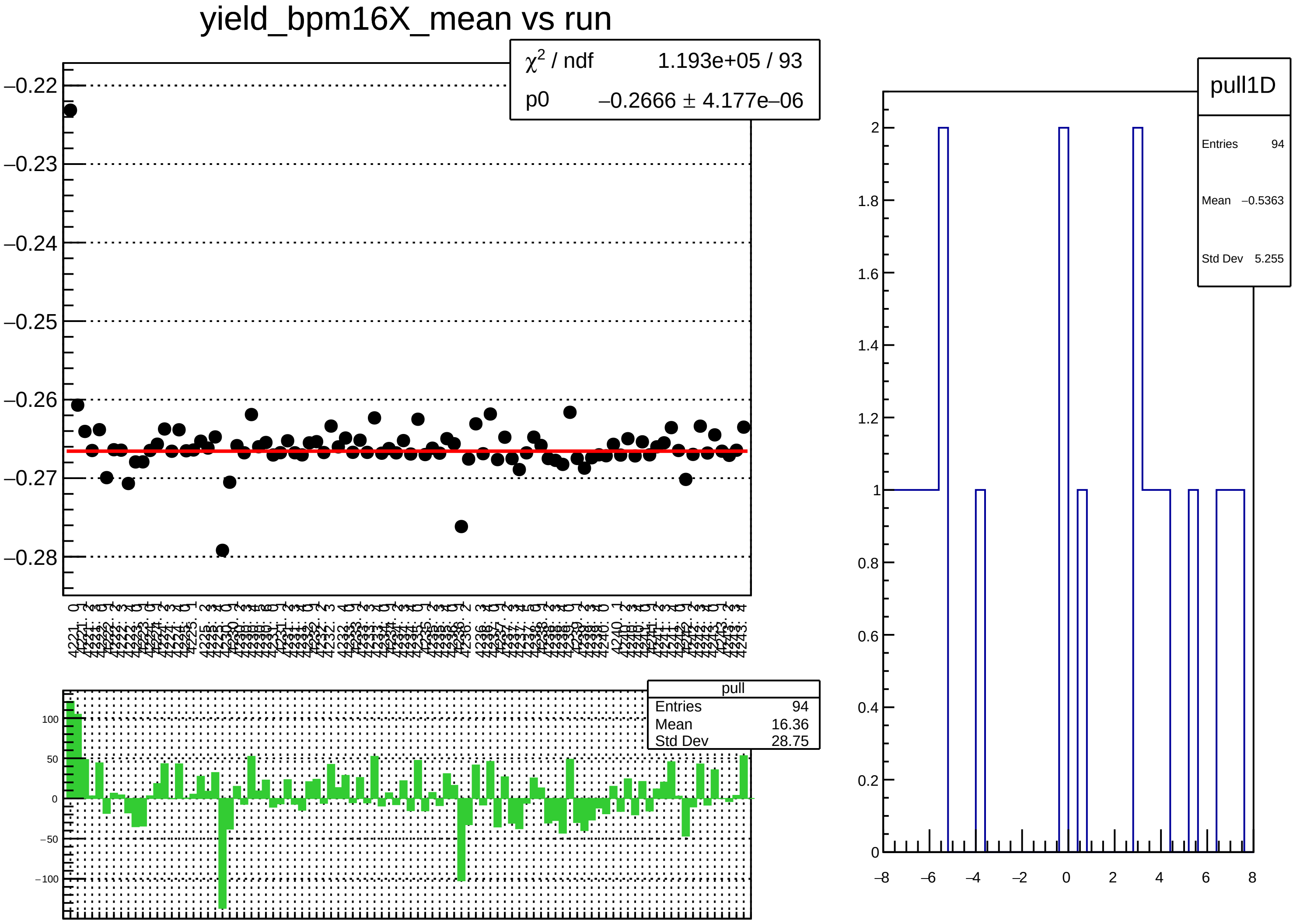


yield_bpm12X_rms vs run
χ^2 / ndf 6.422e+05 / 93
p0 0.005797 ± 5.239e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

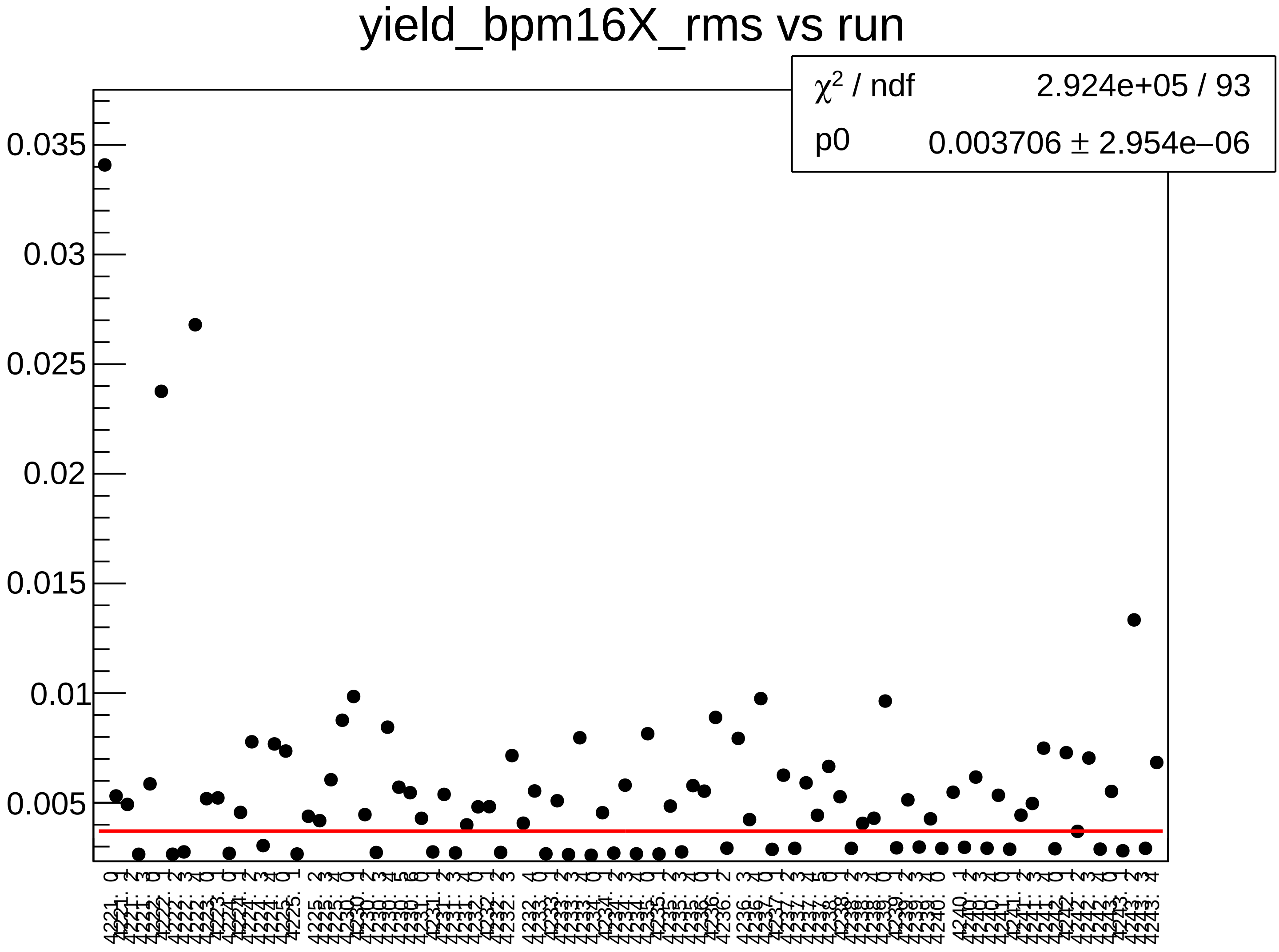


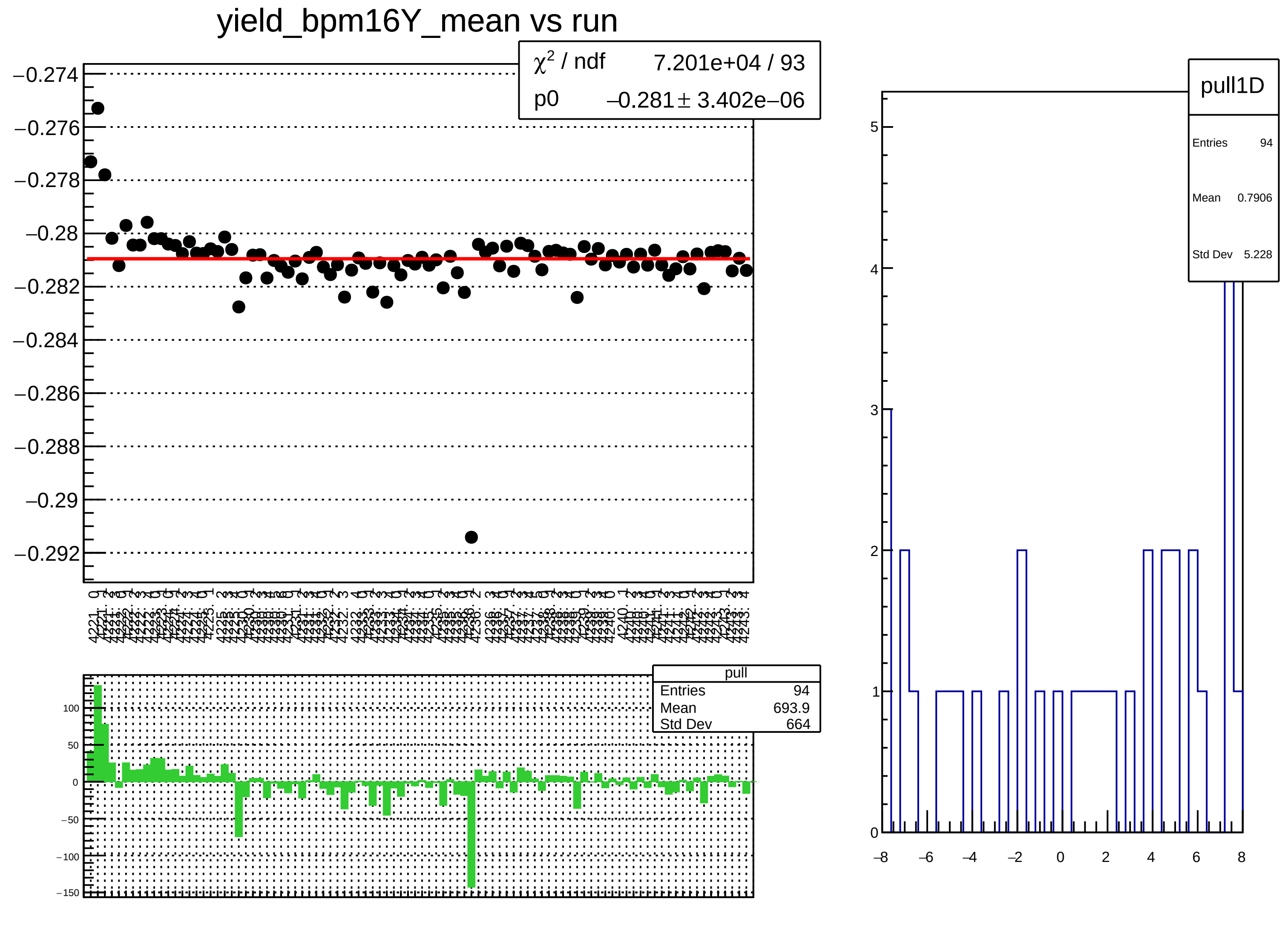
yield_bpm12Y_mean vs run
χ^2 / ndf 1.002e+05 / 93
p0 1.267 ± 7.29e−06
1.29
1.285
1.28
1.275
1.27
1.265
1.26
pull
Entries 94
Mean −86.69
Std Dev 128.7
150
100
50
0
−50
pull1D
Entries 94
Mean 0.2177
Std Dev 4.192
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm12Y_rms vs run
χ2 / ndf 1.51e+05 / 93
p0 0.006751 ± 5.154e−06

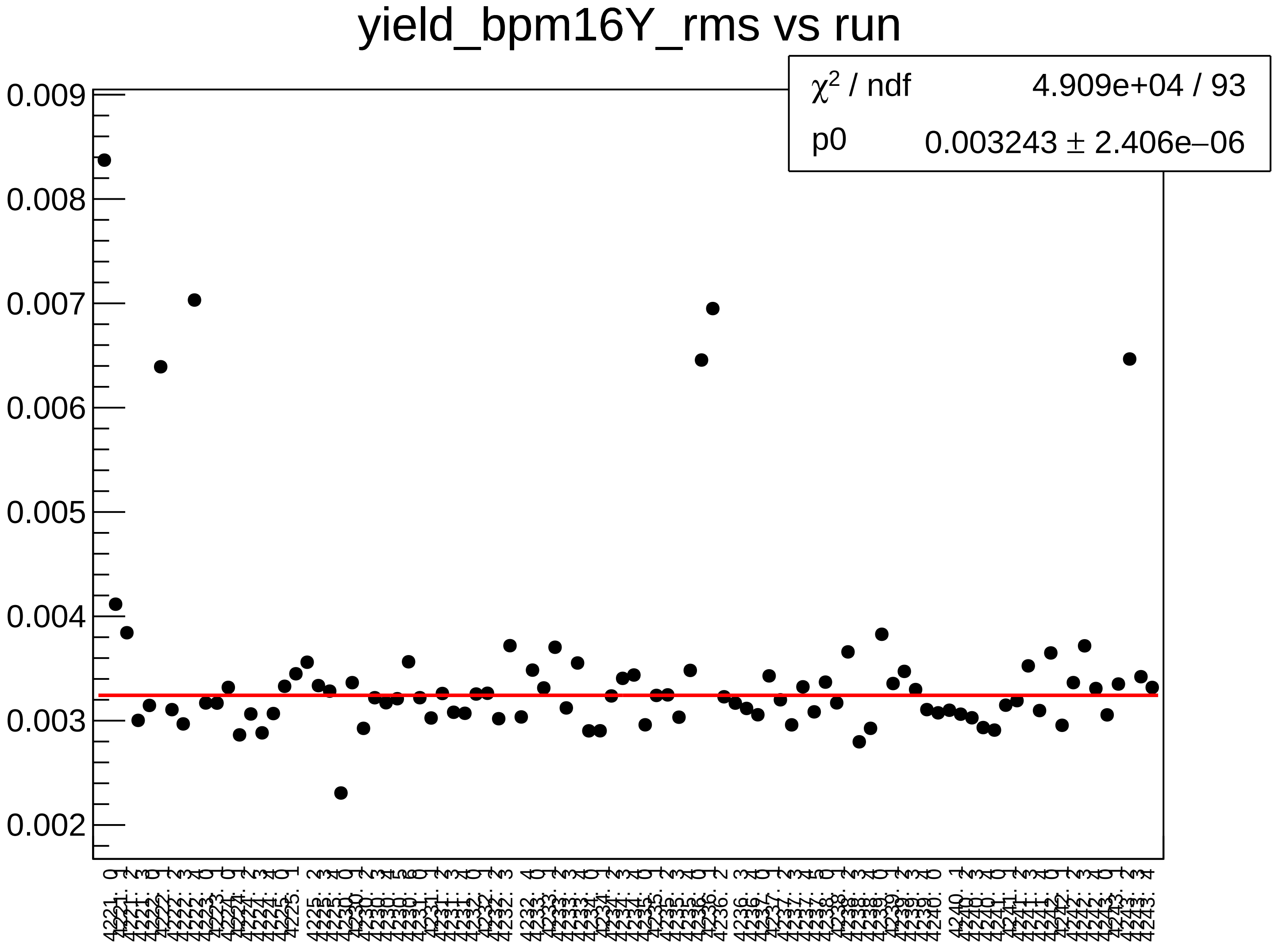


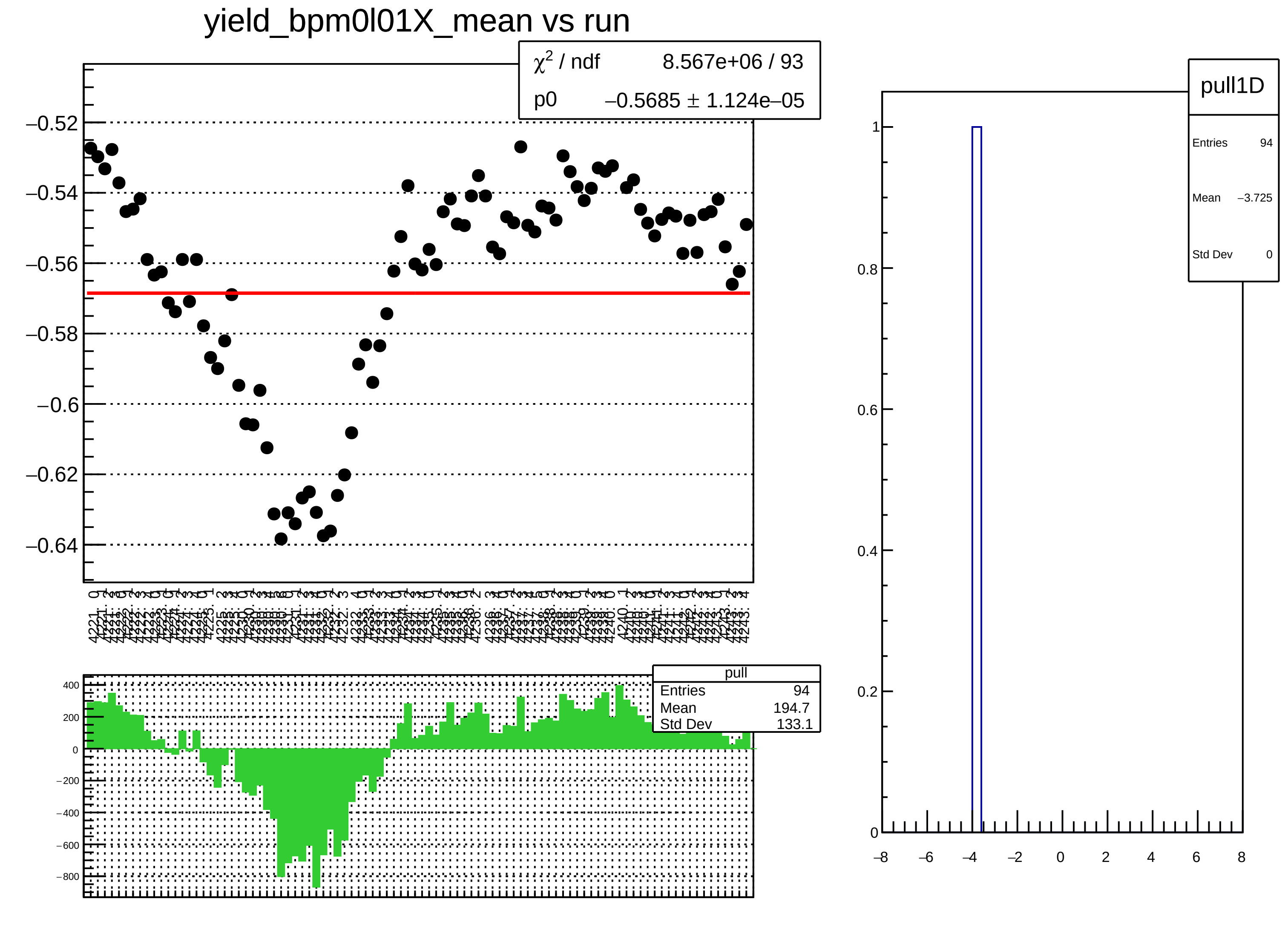
yield_bpm16X_mean vs run
χ^2 / ndf 1.193e+05 / 93
p0 −0.2666 ± 4.177e−06
pull
Entries 94
Mean 16.36
Std Dev 28.75
pull1D
Entries 94
Mean −0.5363
Std Dev 5.255


yield_bpm16X_rms vs run
χ2 / ndf 2.924e+05 / 93
p0 0.003706 ± 2.954e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

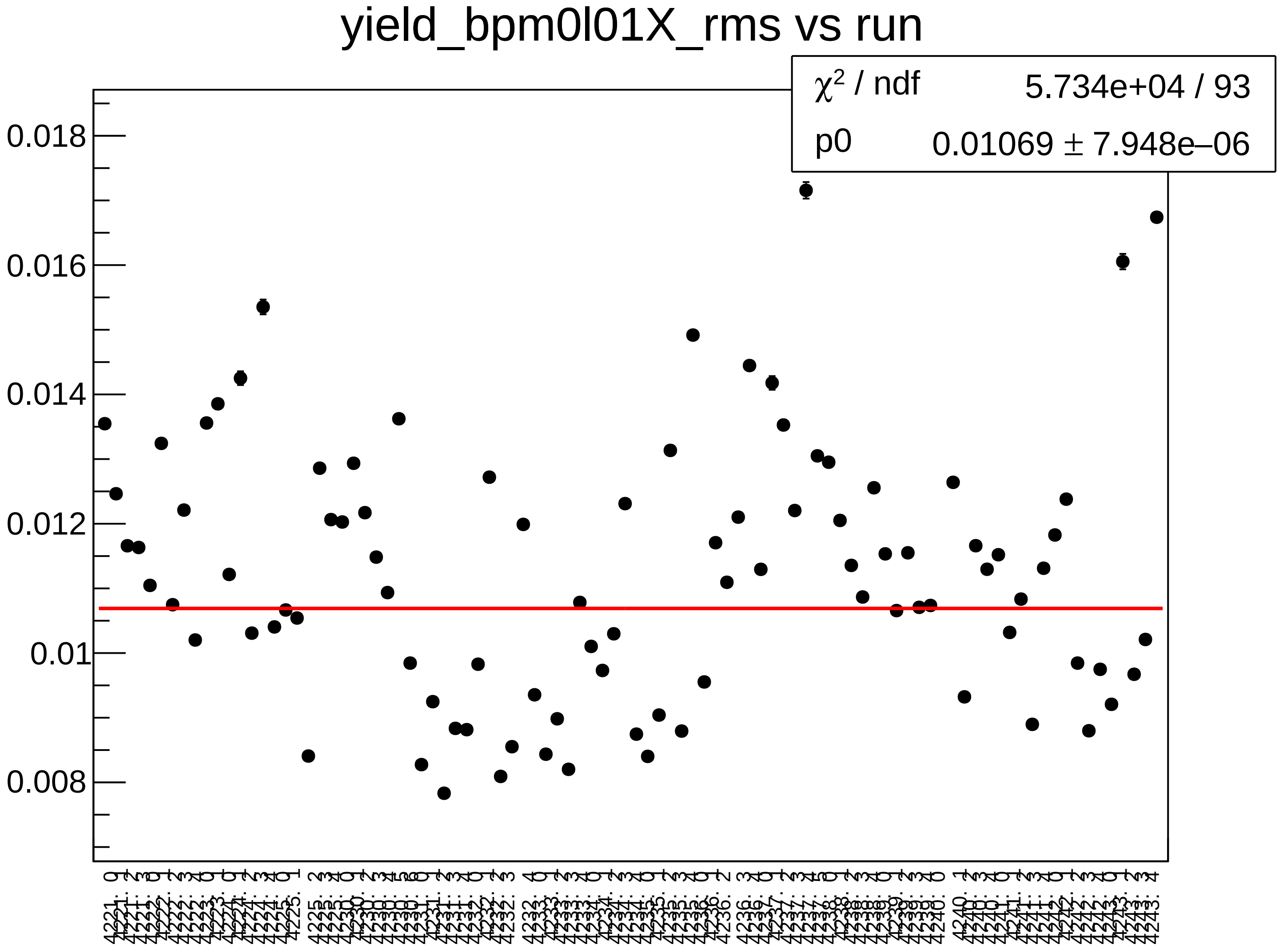


yield_bpm16Y_mean vs run
χ² / ndf 7.201e+04 / 93
p0 −0.281 ± 3.402e−06
pull
Entries 94
Mean 693.9
Std Dev 664
pull1D
Entries 94
Mean 0.7906
Std Dev 5.228

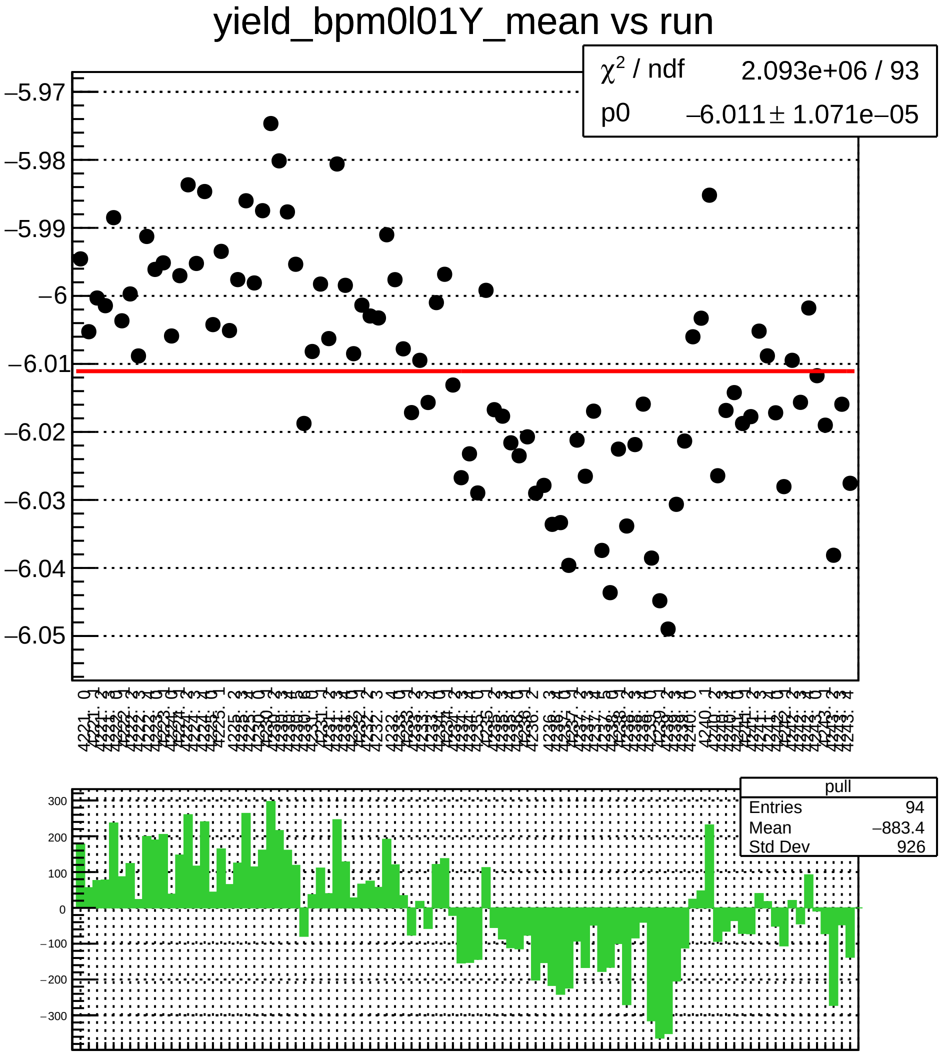

yield_bpm16Y_rms vs run
χ^2 / ndf 4.909e+04 / 93
p0 0.003243 ± 2.406e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002



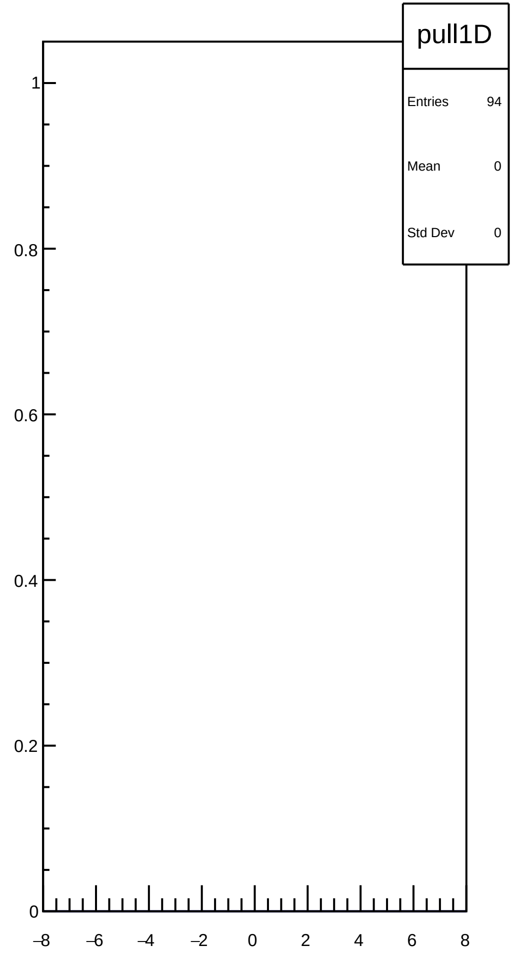
yield_bpm0l01X_mean vs run
χ^2 / ndf 8.567e+06 / 93
p0 −0.5685 ± 1.124e−05
pull
Entries 94
Mean 194.7
Std Dev 133.1
pull1D
Entries 94
Mean −3.725
Std Dev 0



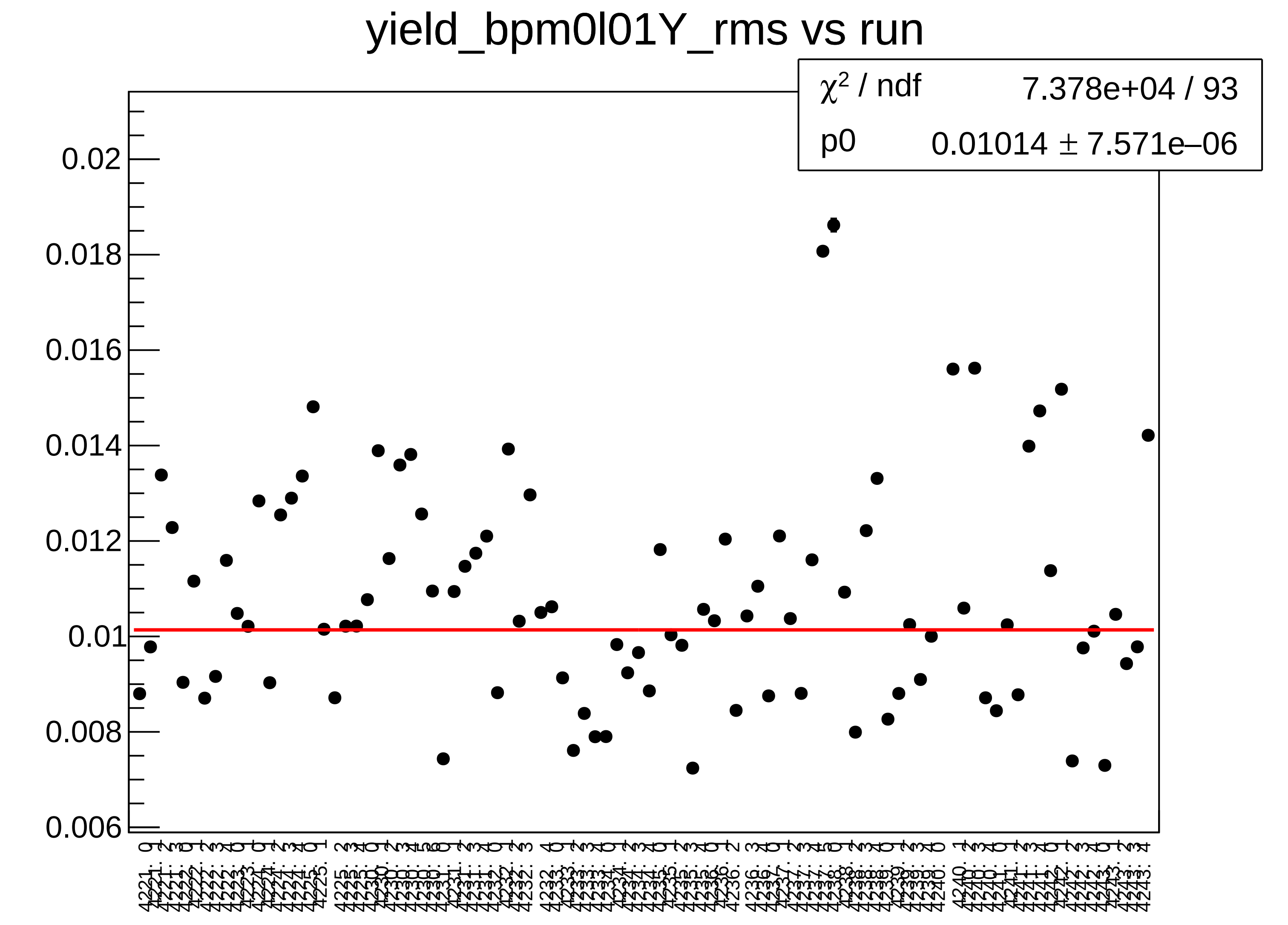
yield_bpm0l01X_rms vs run
χ^2 / ndf 5.734e+04 / 93
p0 0.01069 ± 7.948e−06
0.018
0.016
0.014
0.012
0.01
0.008

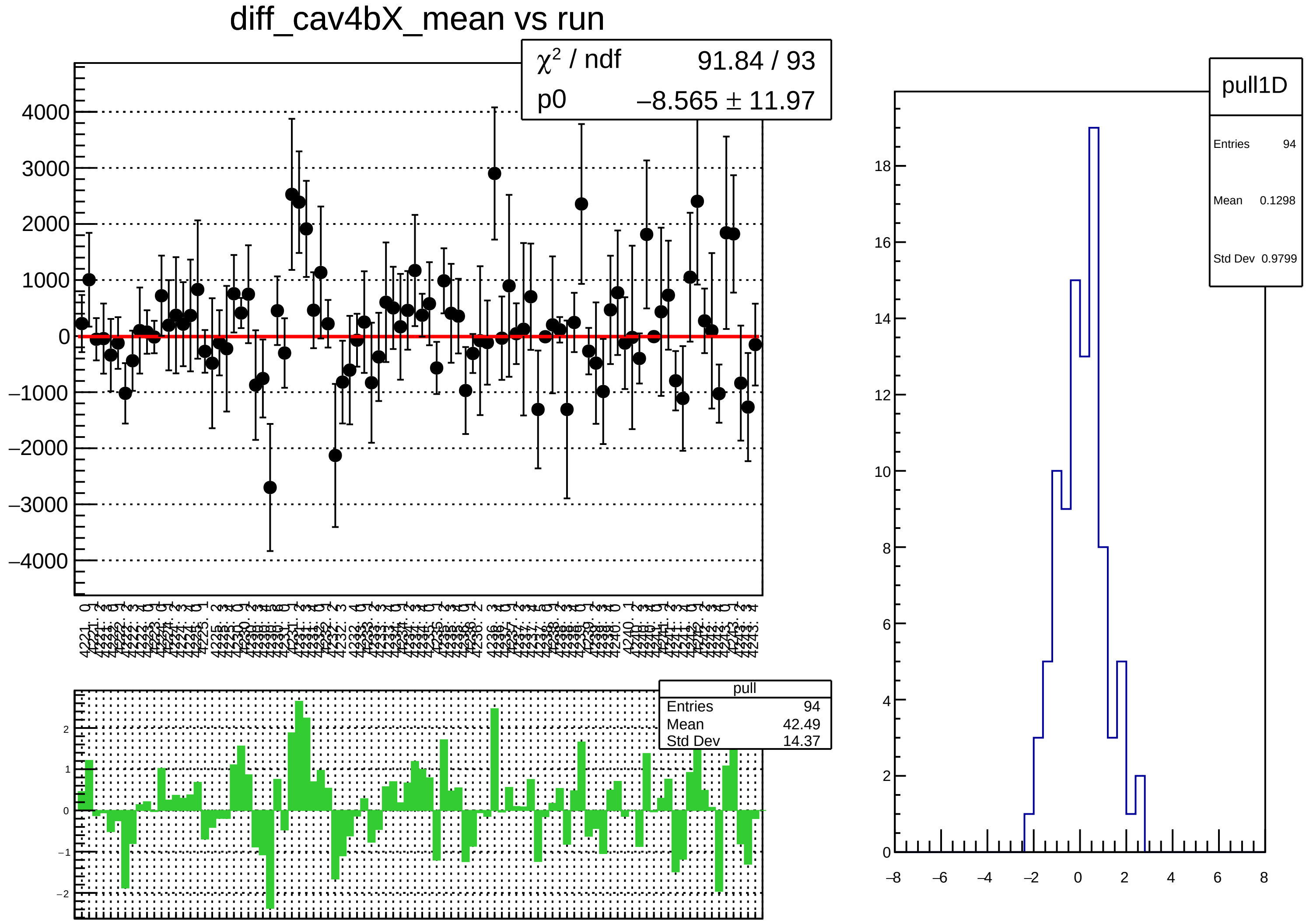


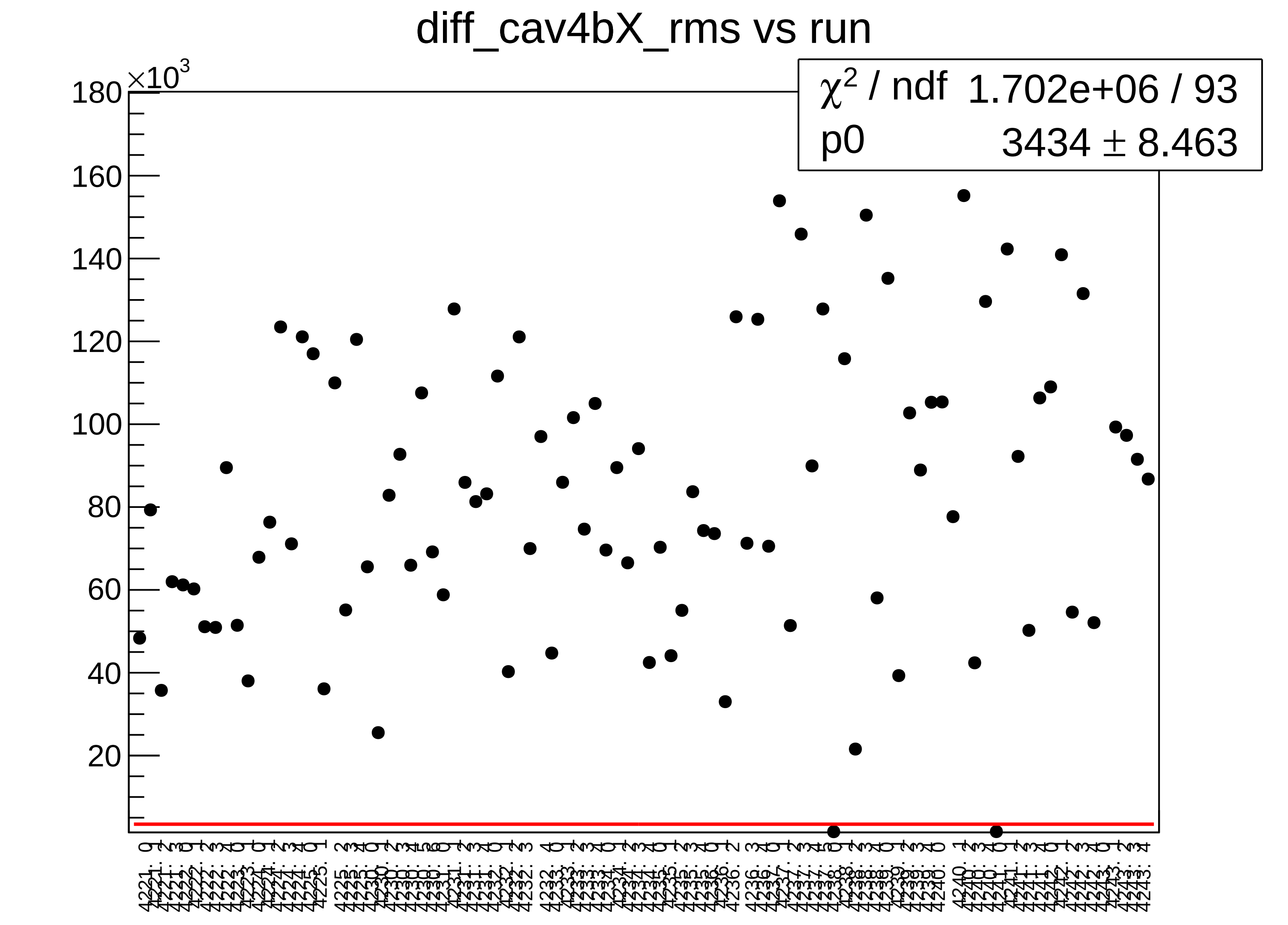
yield_bpm0l01Y_mean vs run
χ² / ndf 2.093e+06 / 93
p0 −6.011 ± 1.071e−05
pull
Entries 94
Mean −883.4
Std Dev 926



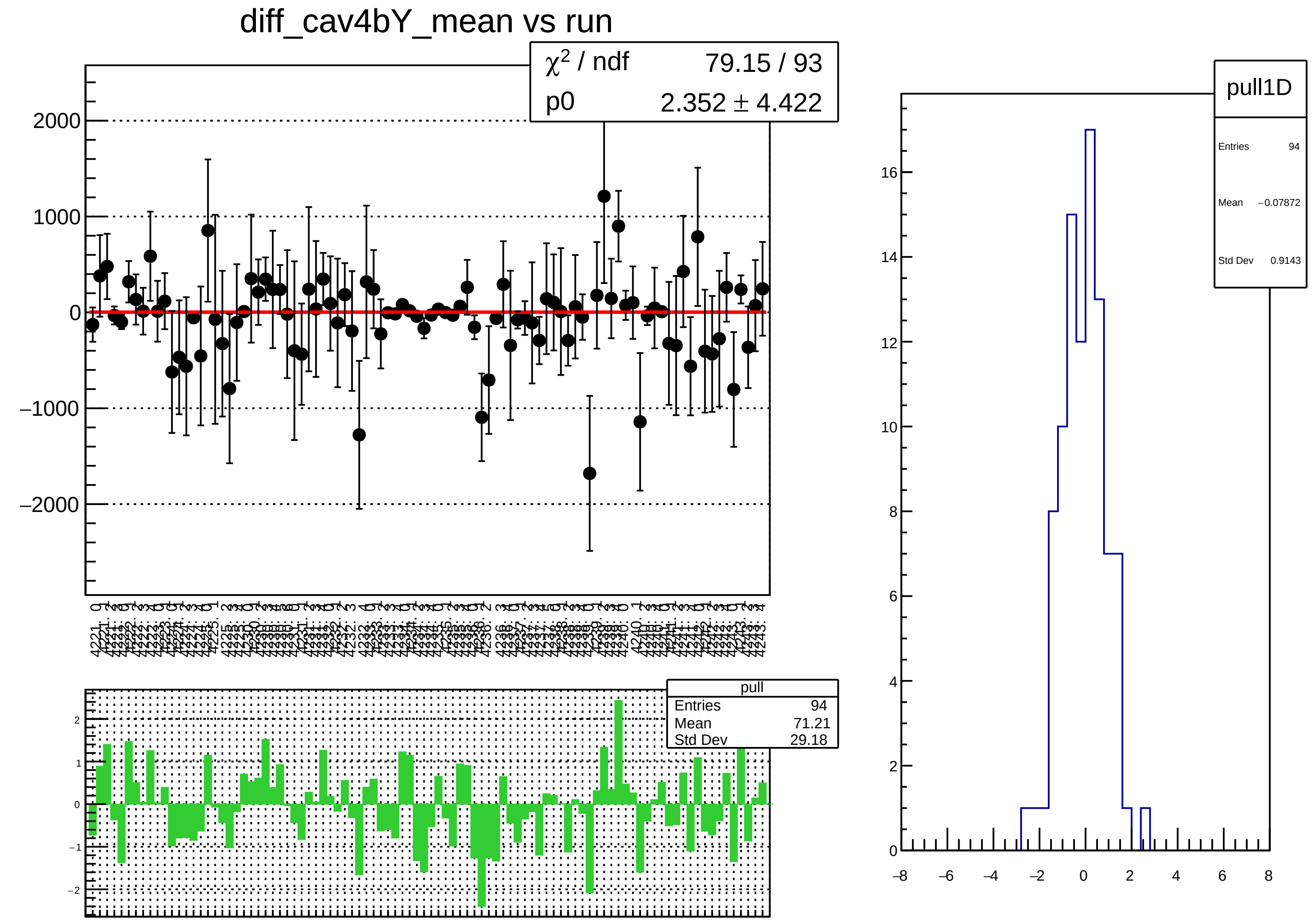
pull1D
Entries 94
Mean 0
Std Dev 0


yield_bpm0l01Y_rms vs run
χ2 / ndf 7.378e+04 / 93
p0 0.01014 ± 7.571e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

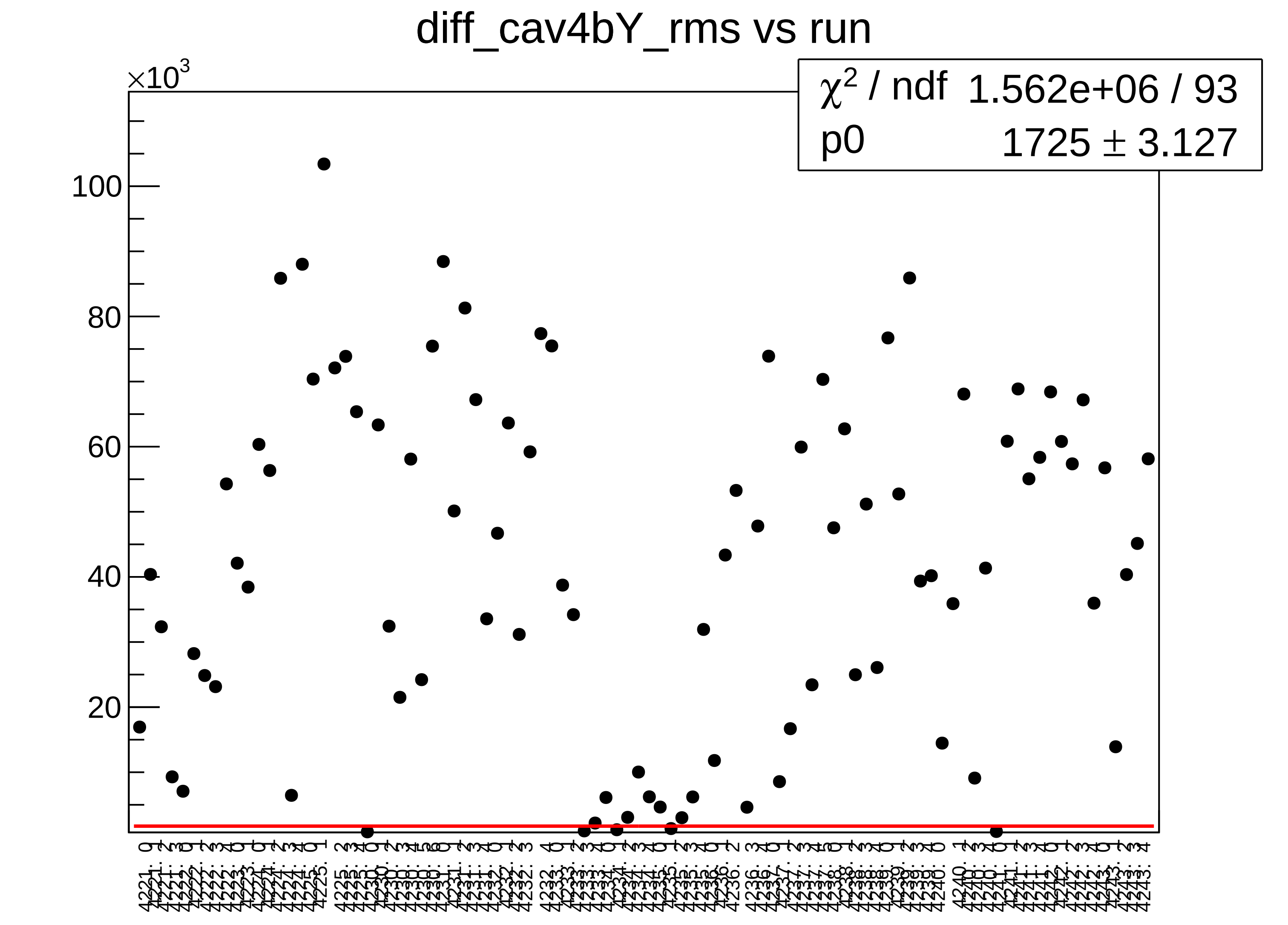

diff_cav4bX_mean vs run
χ2 / ndf 91.84 / 93
p0 −8.565 ± 11.97
pull
Entries 94
Mean 42.49
Std Dev 14.37
pull1D
Entries 94
Mean 0.1298
Std Dev 0.9799

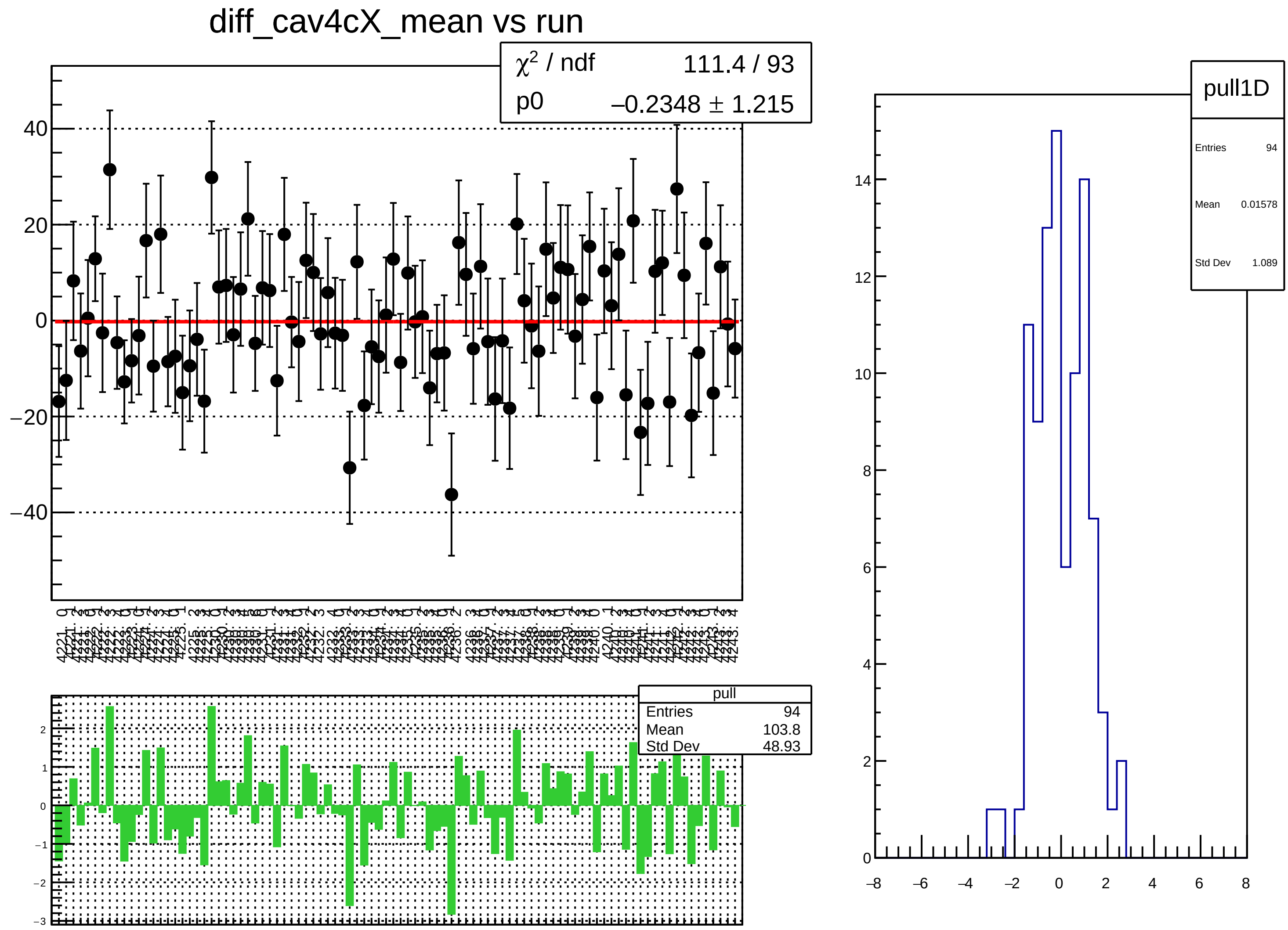


diff_cav4bX_rms vs run
χ^2 / ndf 1.702e+06 / 93
p0 3434 ± 8.463
×10^3

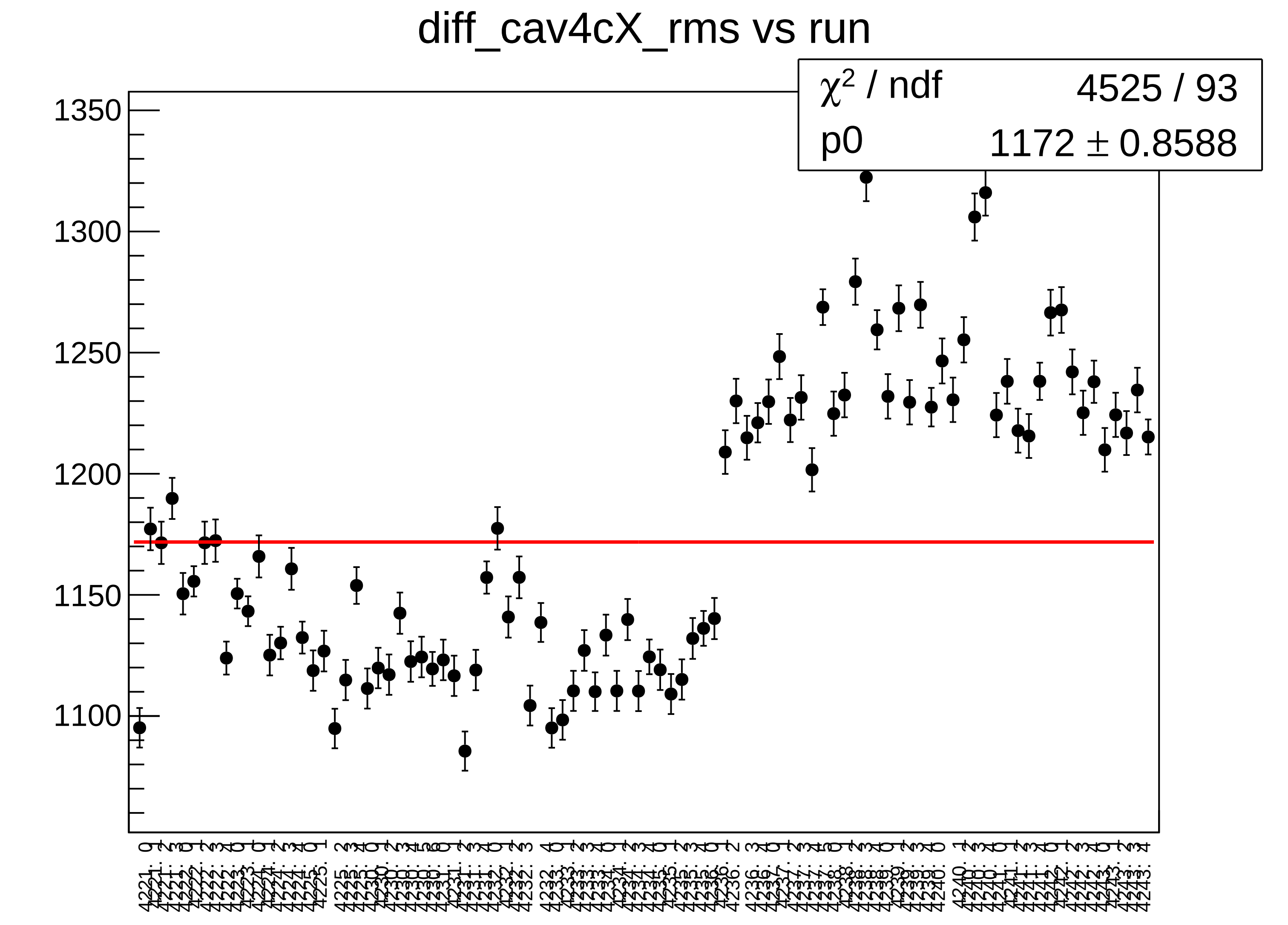


diff_cav4bY_mean vs run
χ^2 / ndf 79.15 / 93
p0 2.352 ± 4.422
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 71.21
Std Dev 29.18
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.07872
Std Dev 0.9143
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

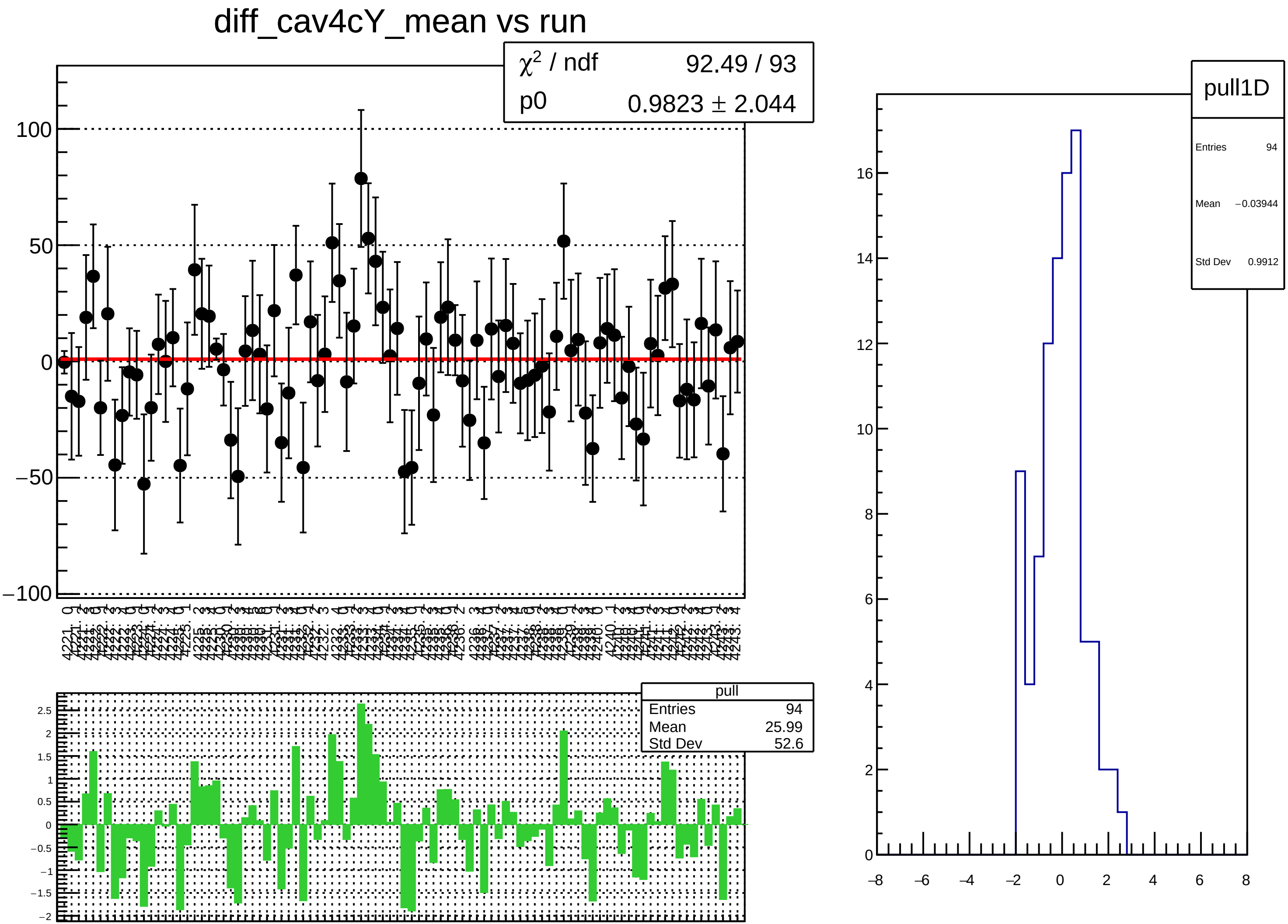

diff_cav4bY_rms vs run
×10^3
χ2 / ndf 1.562e+06 / 93
p0 1725 ± 3.127
100
80
60
40
20

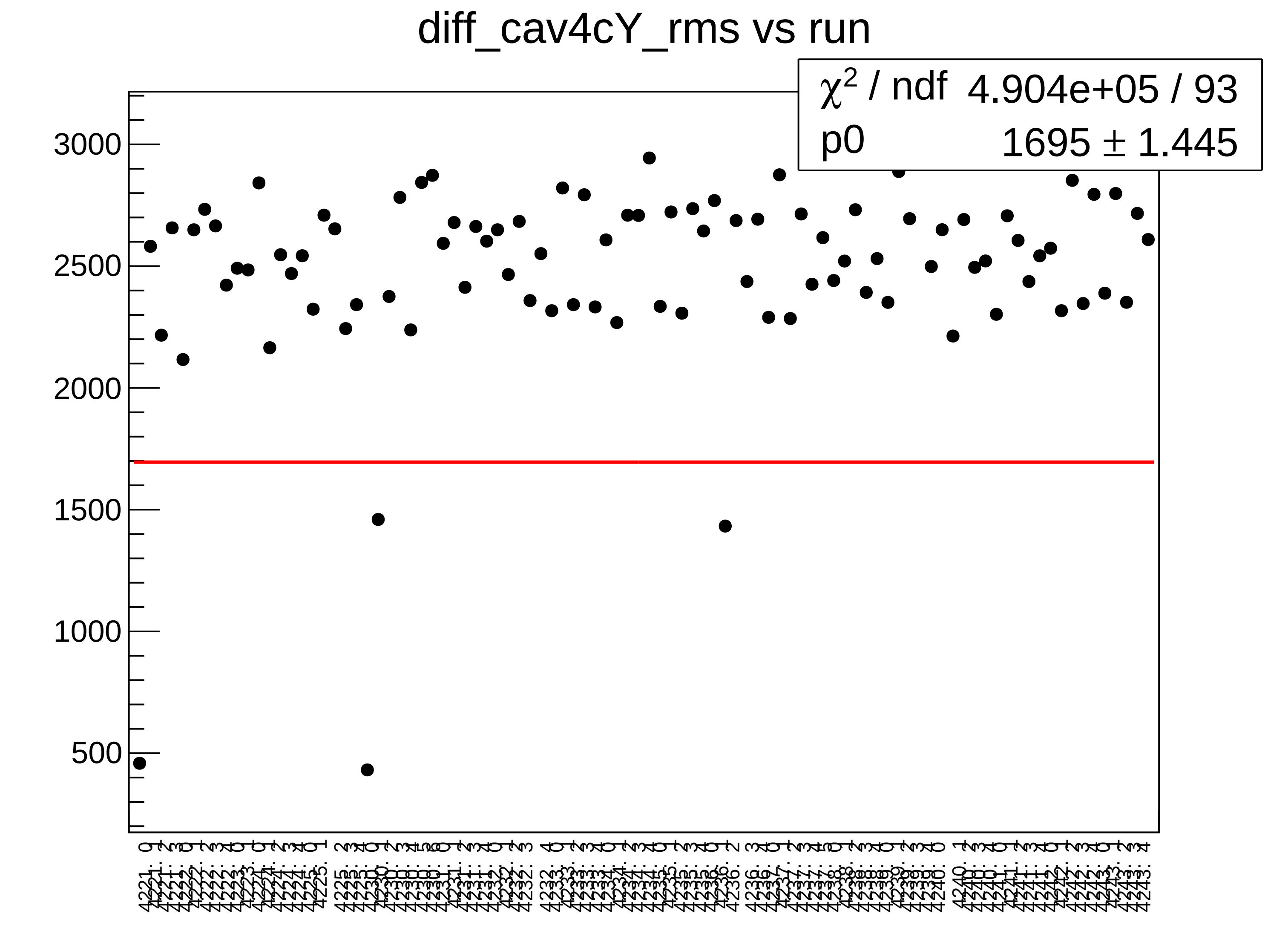


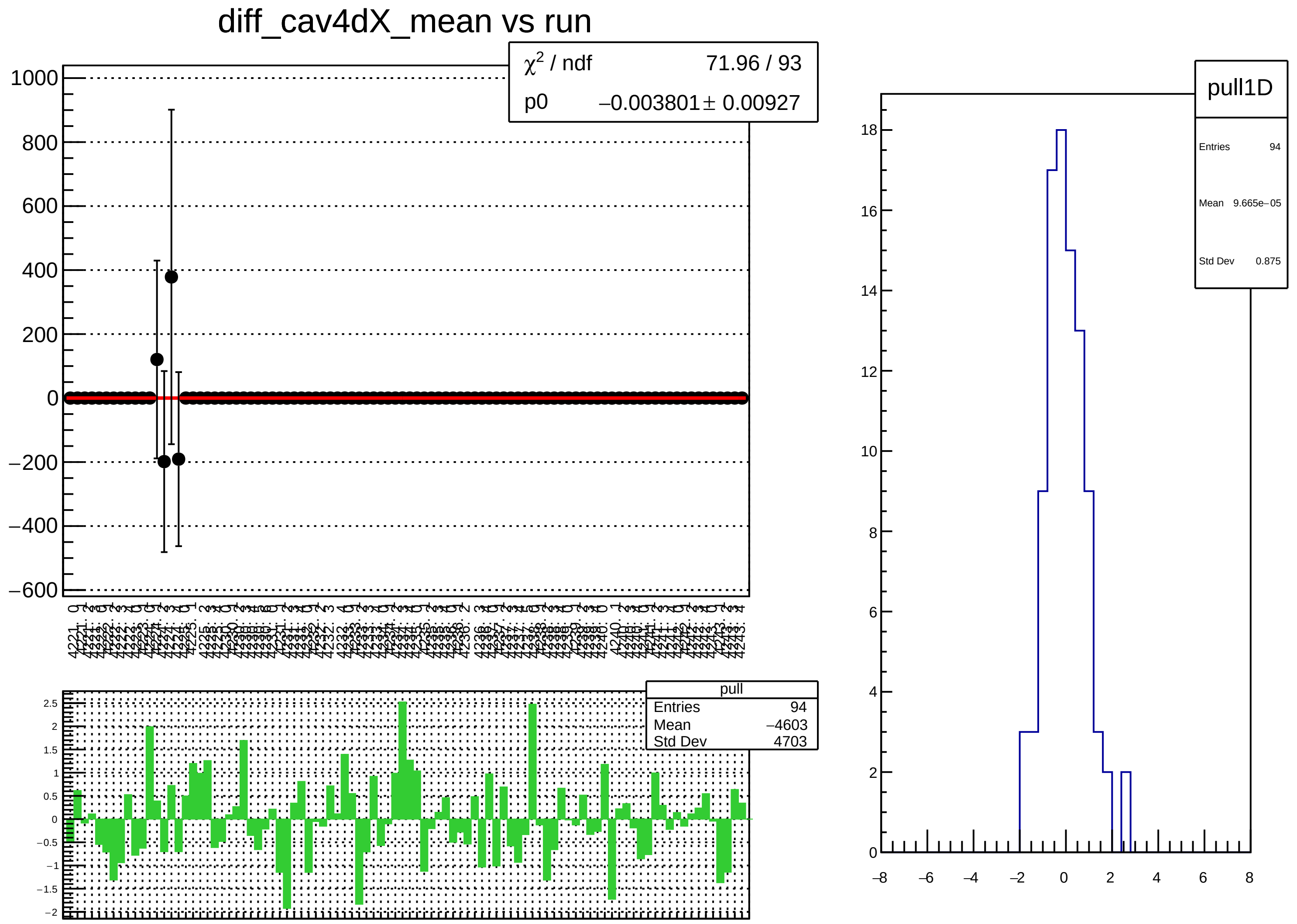
diff_cav4cX_mean vs run
χ^2 / ndf 111.4 / 93
p0 −0.2348 ± 1.215
pull
Entries 94
Mean 103.8
Std Dev 48.93
pull1D
Entries 94
Mean 0.01578
Std Dev 1.089



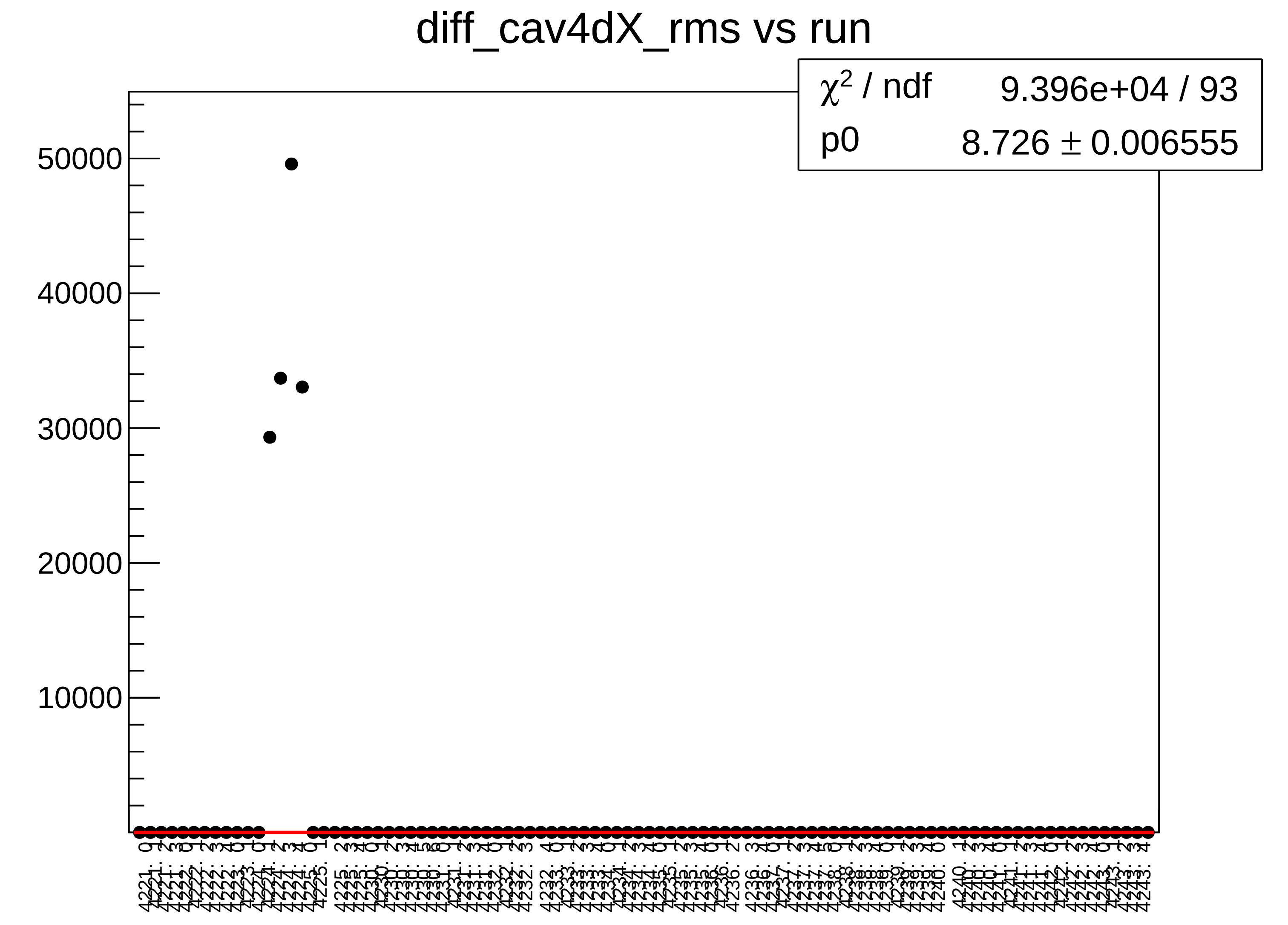
diff_cav4cX_rms vs run
χ^2 / ndf 4525 / 93
p0 1172 ± 0.8588
1350
1300
1250
1200
1150
1100


diff_cav4cY_mean vs run
χ^2 / ndf 92.49 / 93
p0 0.9823 ± 2.044
100
50
0
−50
−100
pull
Entries 94
Mean 25.99
Std Dev 52.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.03944
Std Dev 0.9912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

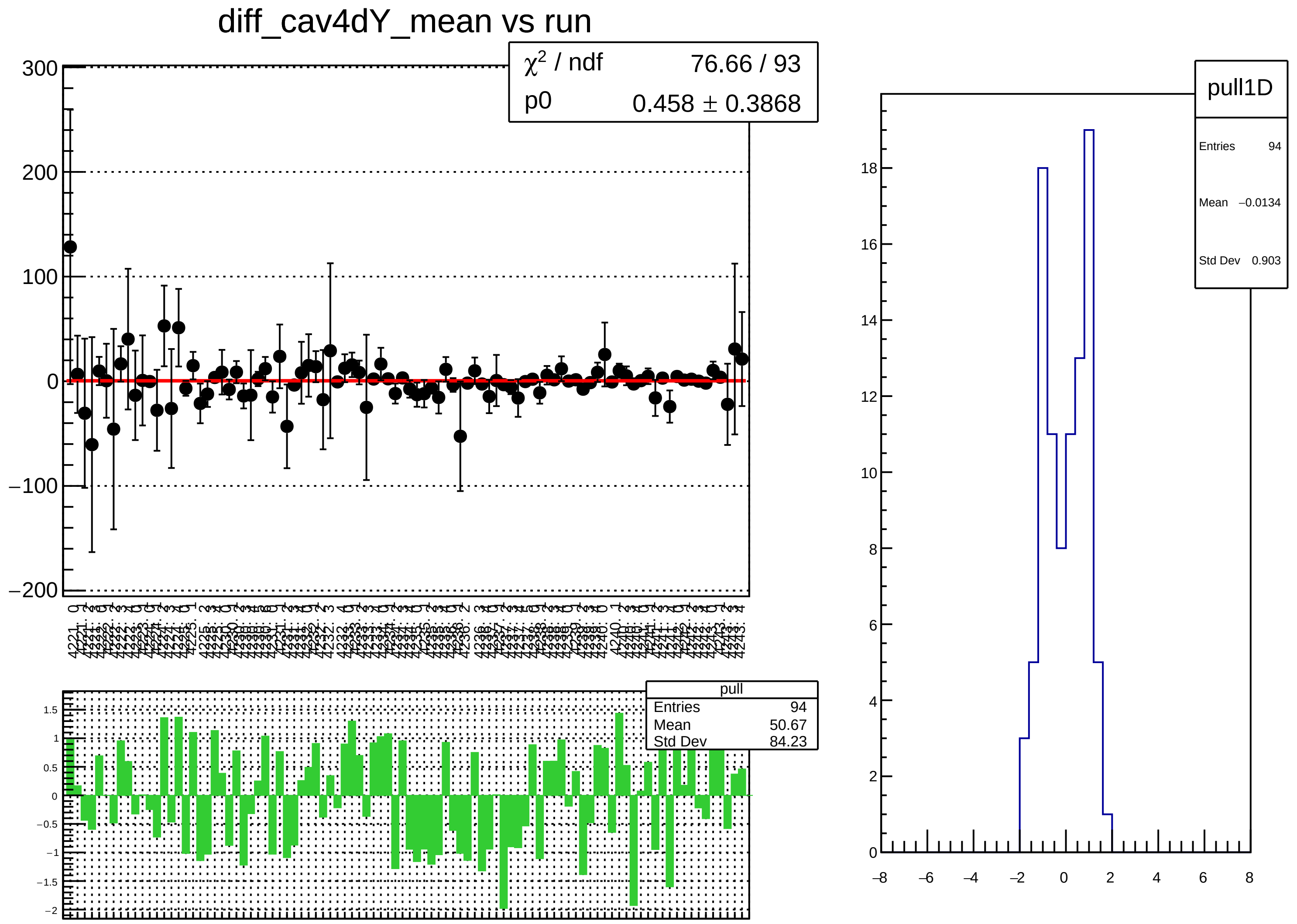

diff_cav4cY_rms vs run
χ2 / ndf 4.904e+05 / 93
p0 1695 ± 1.445
3000
2500
2000
1500
1000
500



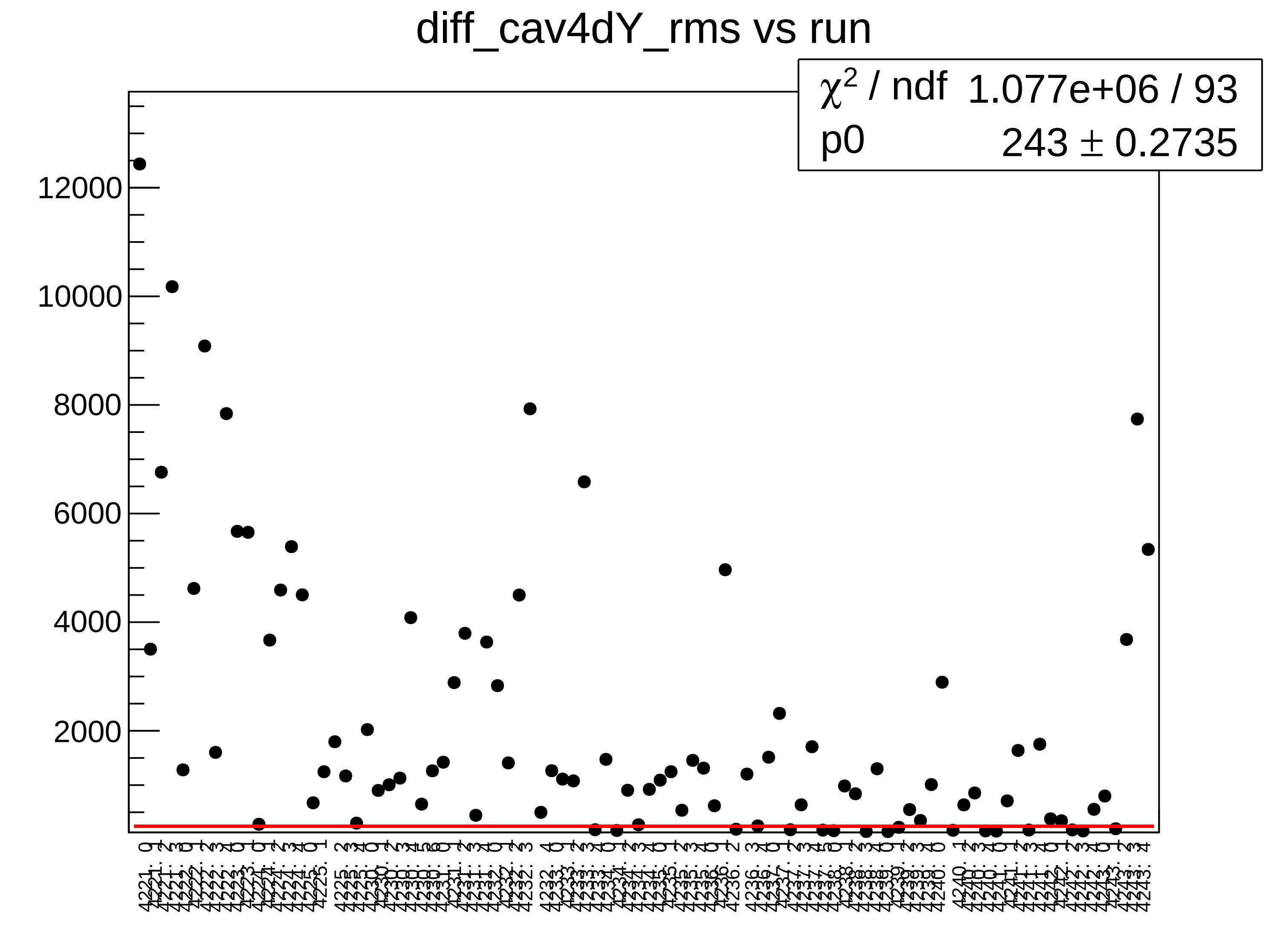
diff_cav4dX_mean vs run
χ2 / ndf 71.96 / 93
p0 −0.003801 ± 0.00927
pull
Entries 94
Mean −4603
Std Dev 4703
pull1D
Entries 94
Mean 9.665e−05
Std Dev 0.875



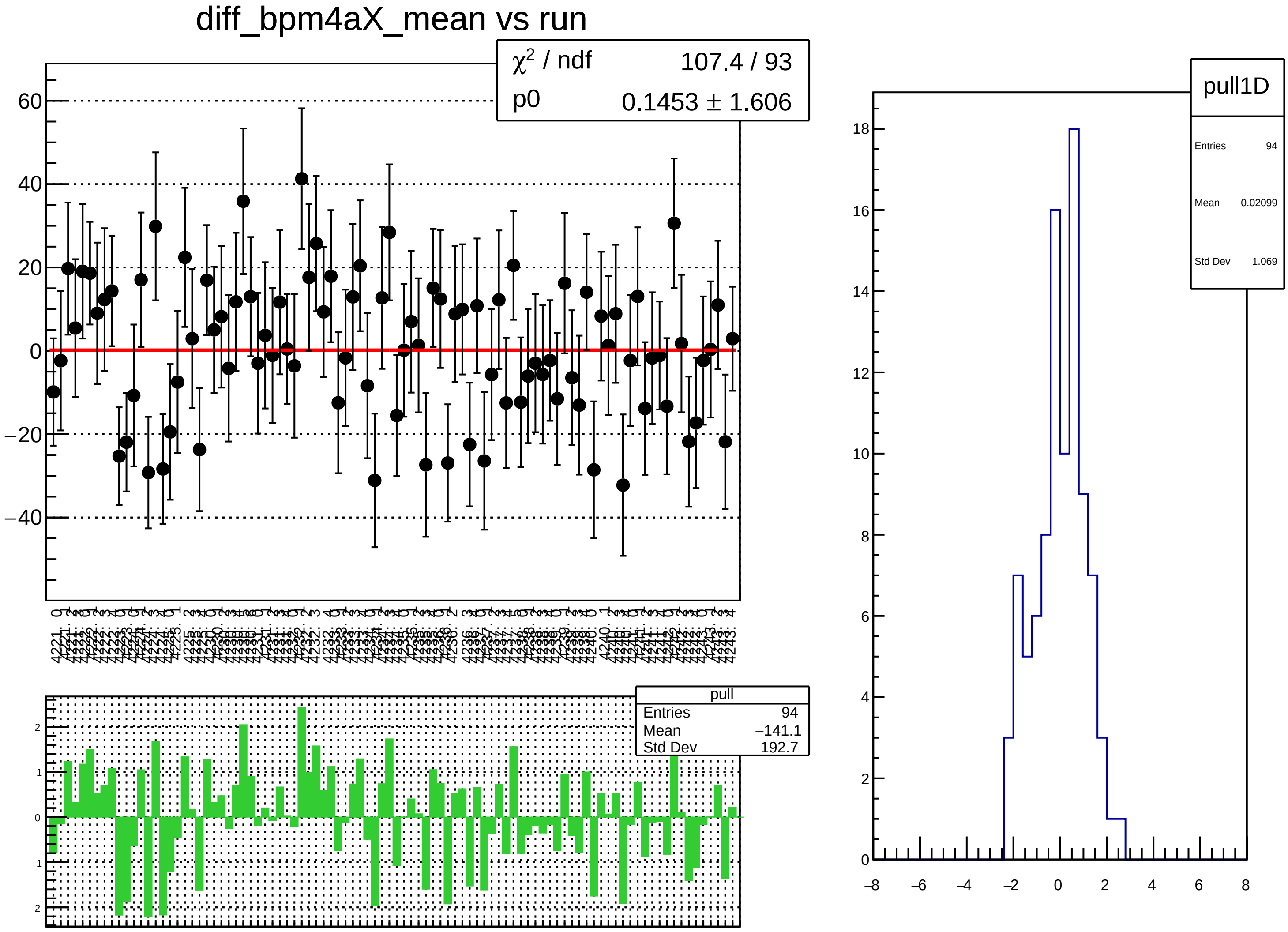
diff_cav4dX_rms vs run
χ^2 / ndf 9.396e+04 / 93
p0 8.726 ± 0.006555
50000
40000
30000
20000
10000



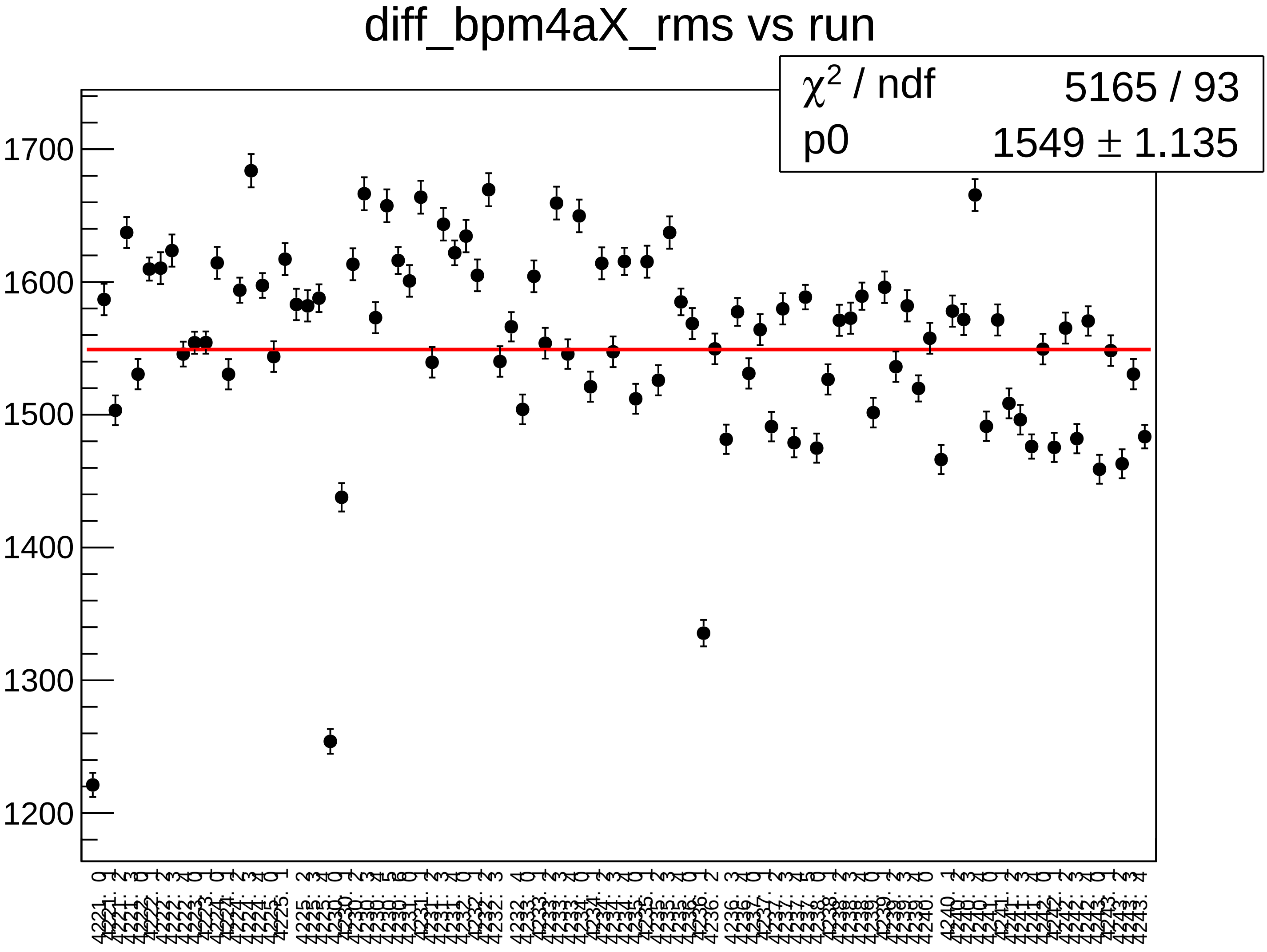
diff_cav4dY_mean vs run
χ^2 / ndf 76.66 / 93
p0 0.458 ± 0.3868
pull
Entries 94
Mean 50.67
Std Dev 84.23
pull1D
Entries 94
Mean −0.0134
Std Dev 0.903



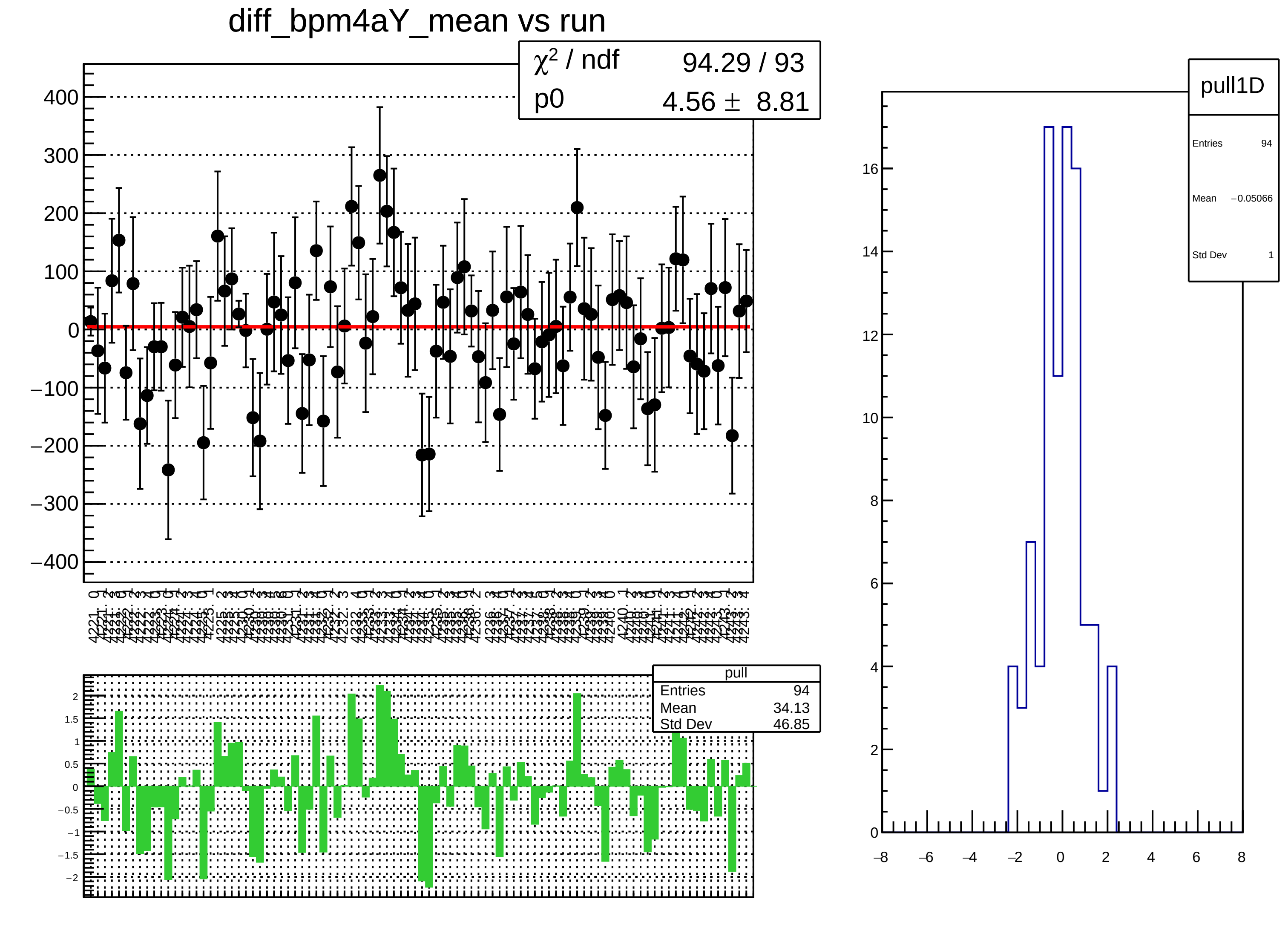
diff_cav4dY_rms vs run
χ^2 / ndf 1.077e+06 / 93
p0 243 ± 0.2735
12000
10000
8000
6000
4000
2000



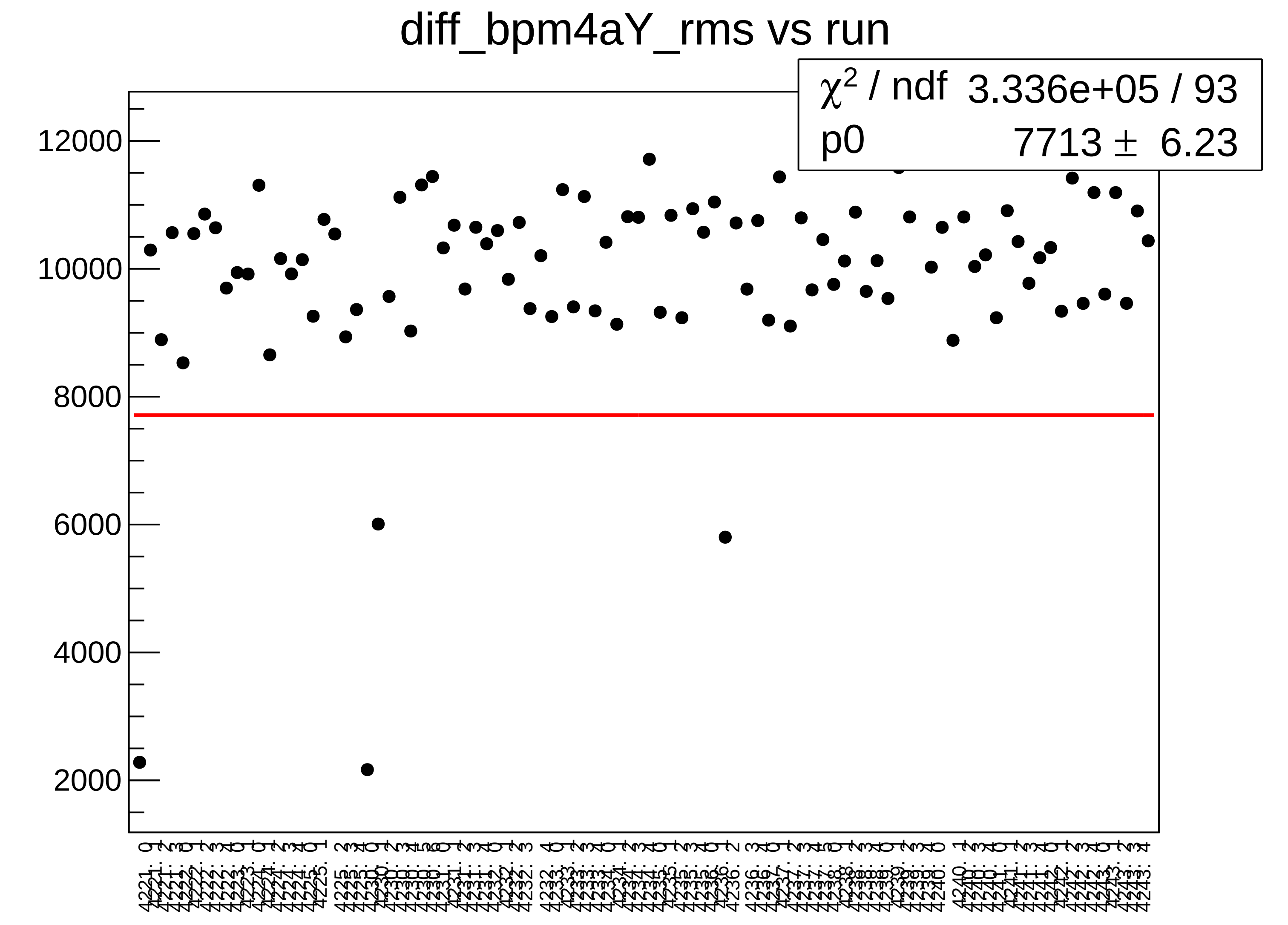
diff_bpm4aX_mean vs run
χ2 / ndf 107.4 / 93
p0 0.1453 ± 1.606
pull
Entries 94
Mean −141.1
Std Dev 192.7
pull1D
Entries 94
Mean 0.02099
Std Dev 1.069



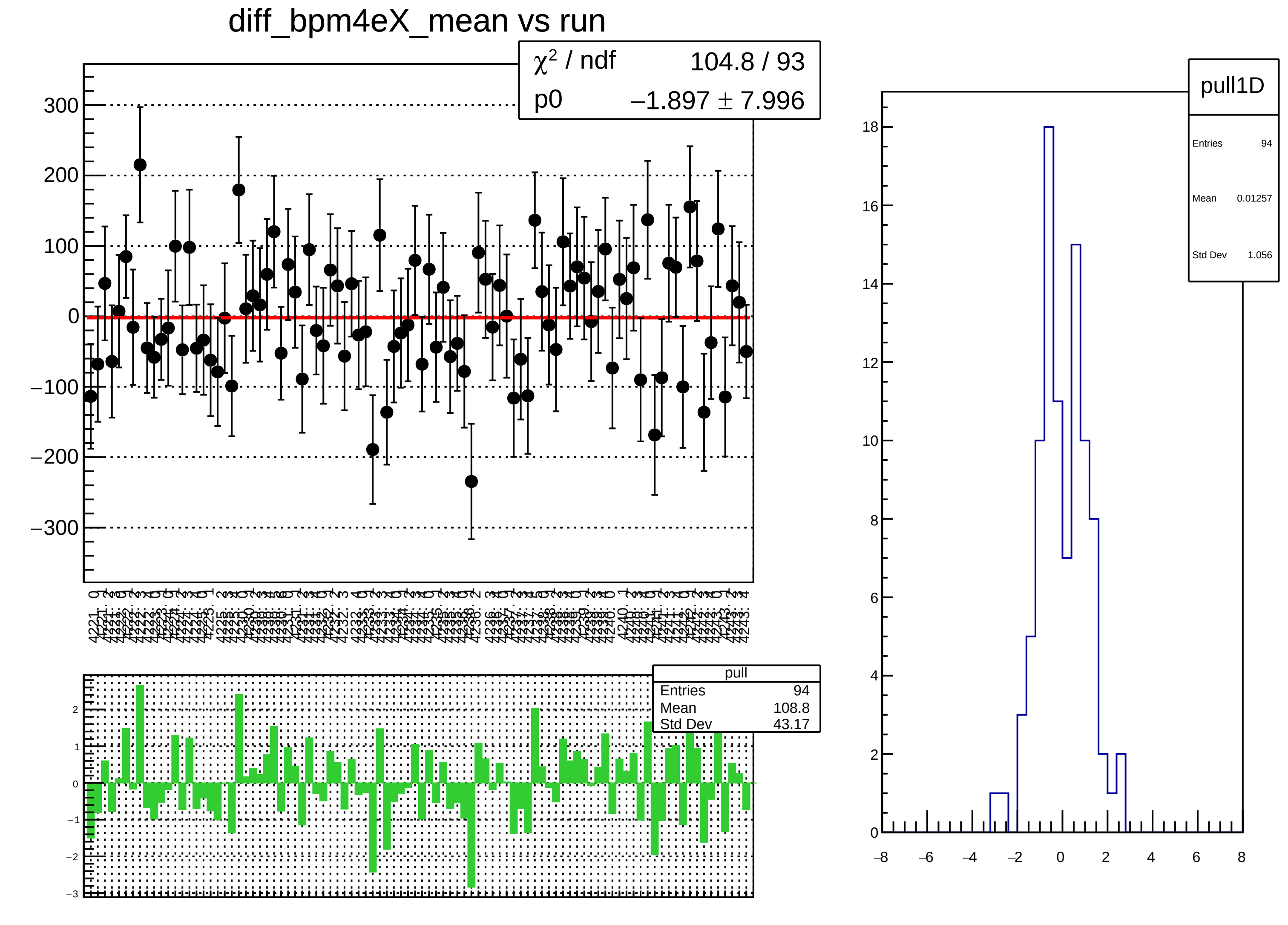
diff_bpm4aX_rms vs run
χ^2 / ndf 5165 / 93
p0 1549 ± 1.135
1700
1600
1500
1400
1300
1200

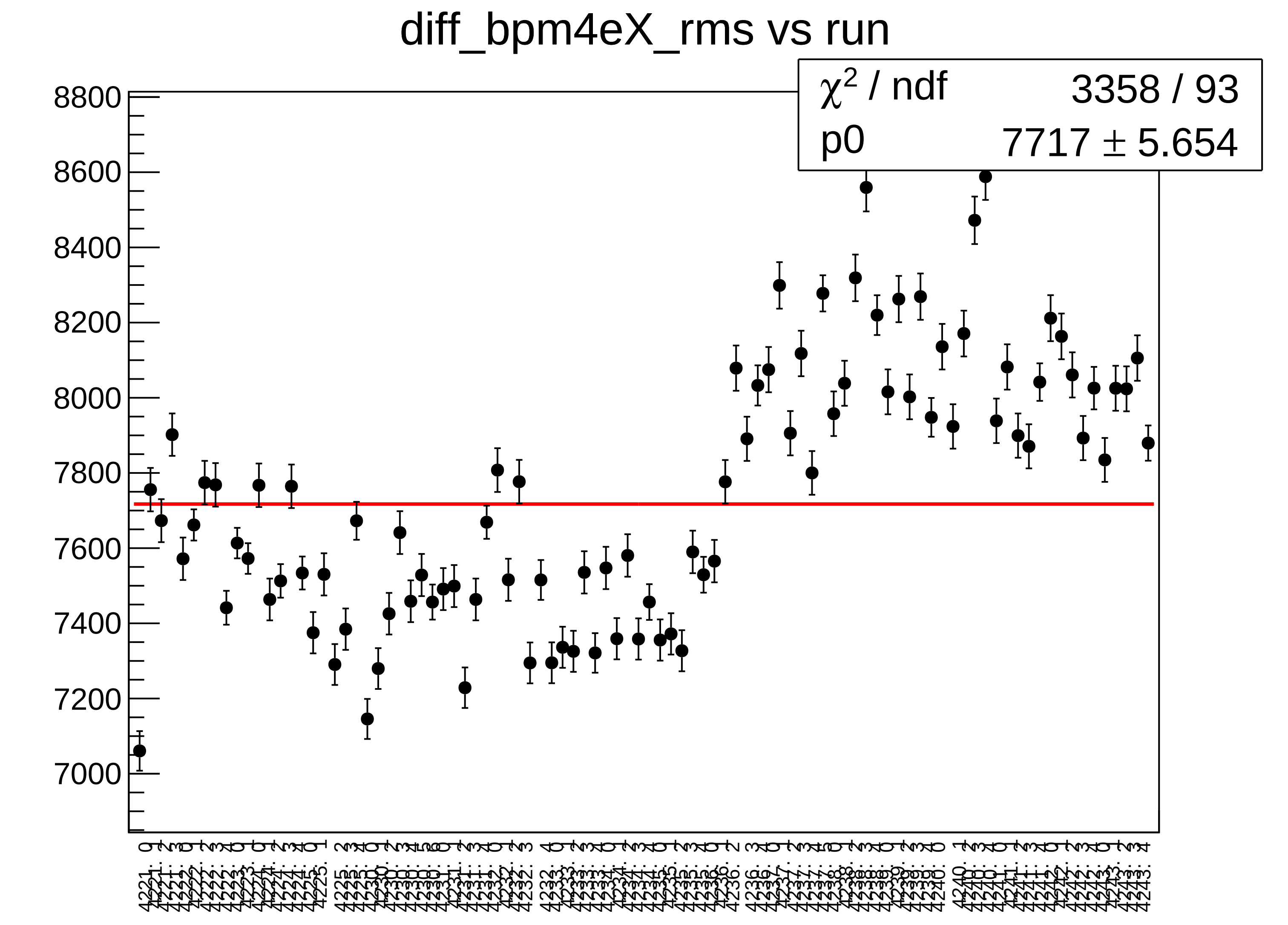


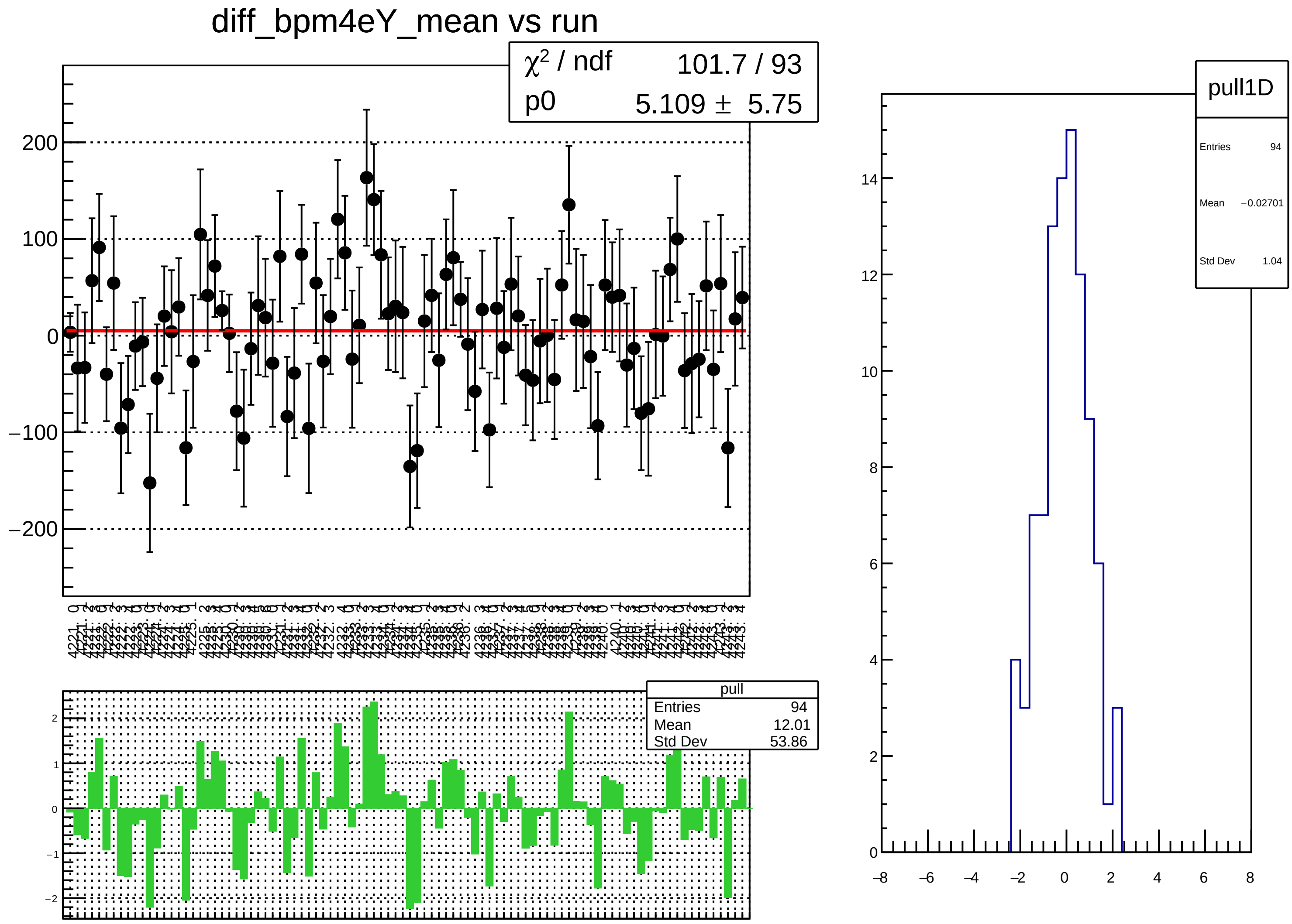
diff_bpm4aY_mean vs run
χ2 / ndf 94.29 / 93
p0 4.56 ± 8.81
pull
Entries 94
Mean 34.13
Std Dev 46.85
pull1D
Entries 94
Mean −0.05066
Std Dev 1



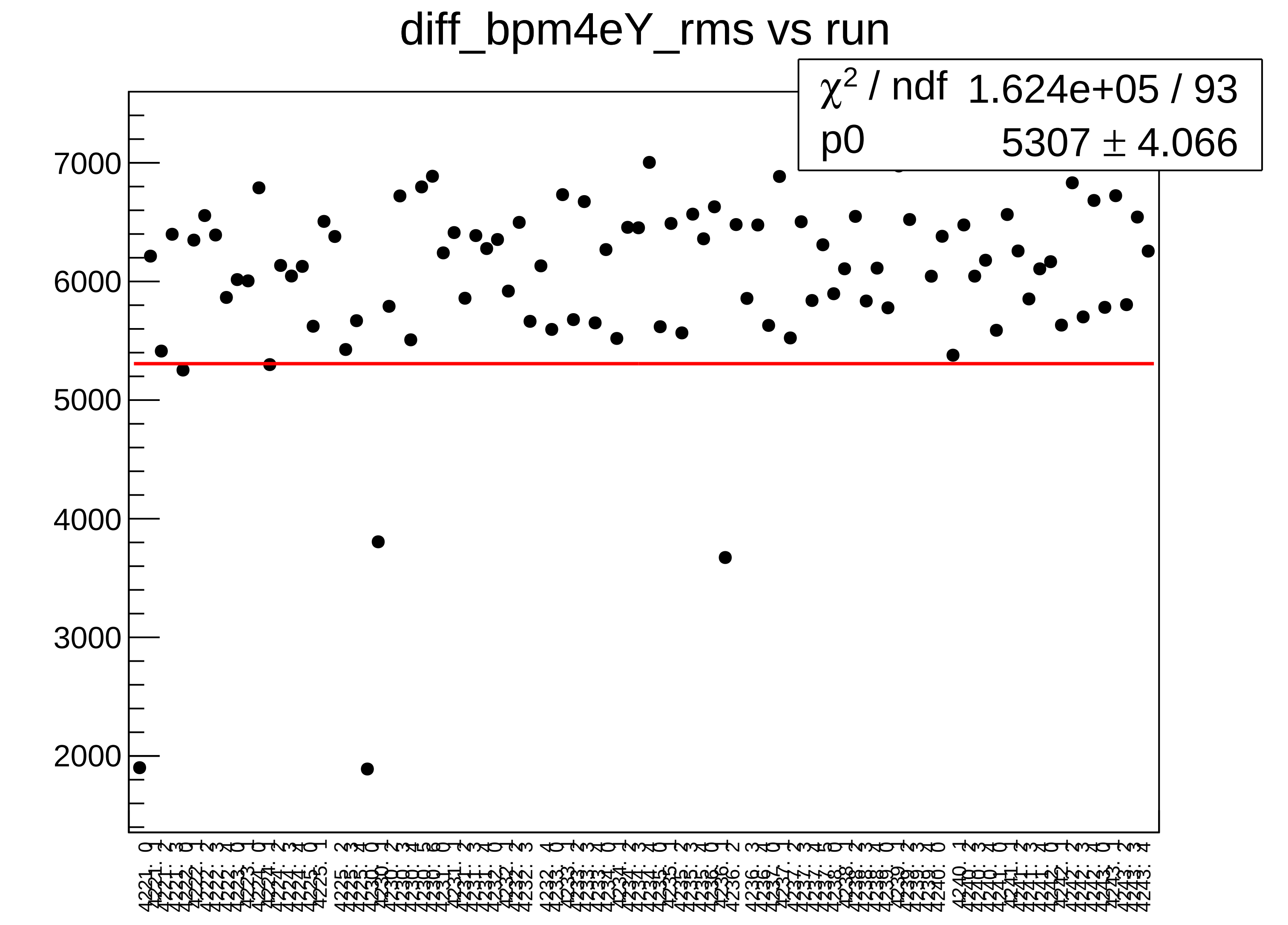
diff_bpm4aY_rms vs run
χ2 / ndf 3.336e+05 / 93
p0 7713 ± 6.23
12000
10000
8000
6000
4000
2000


diff_bpm4eX_mean vs run
χ^2 / ndf 104.8 / 93
p0 −1.897 ± 7.996
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 108.8
Std Dev 43.17
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01257
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

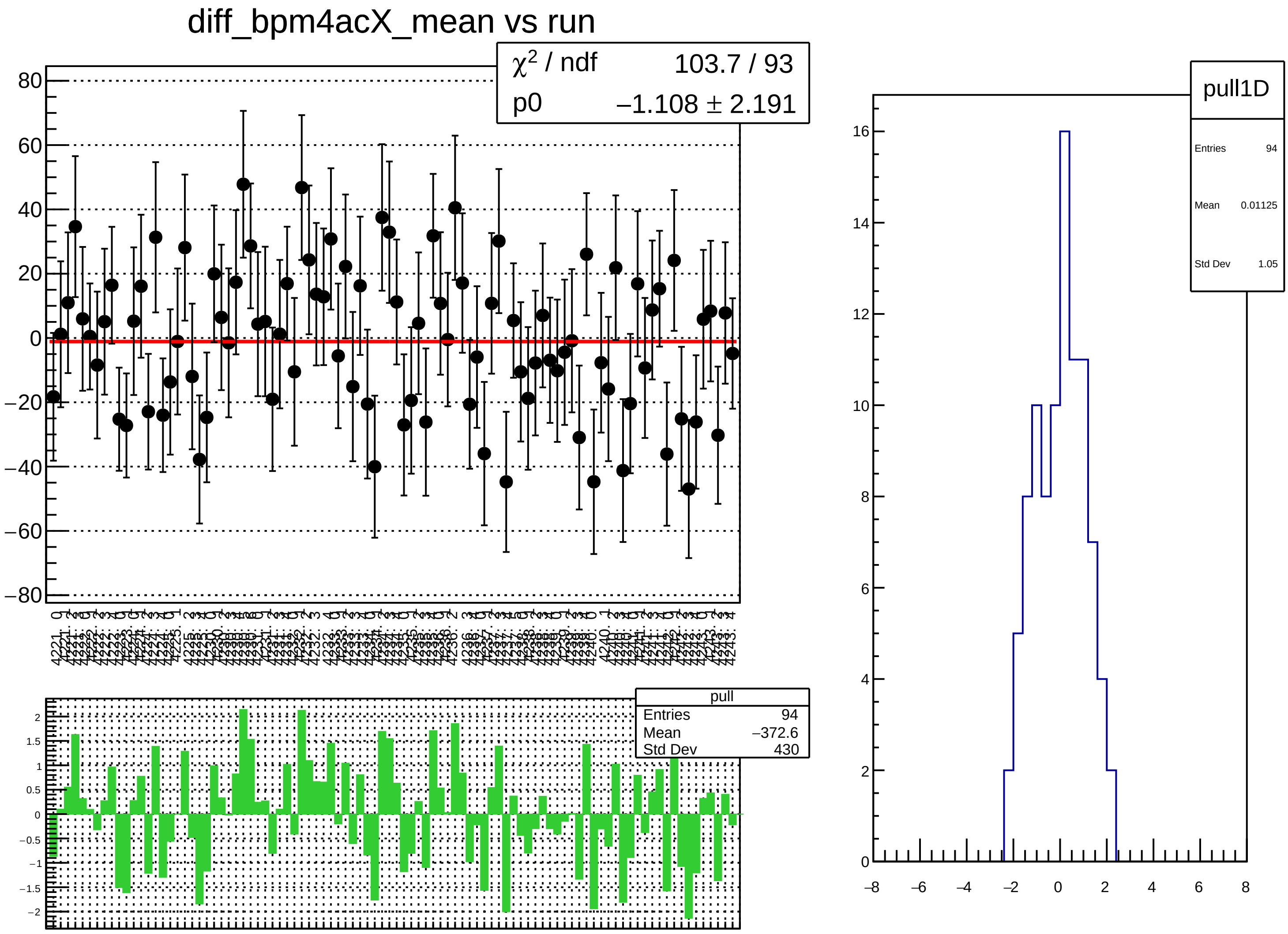

diff_bpm4eX_rms vs run
χ2 / ndf 3358 / 93
p0 7717 ± 5.654
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000



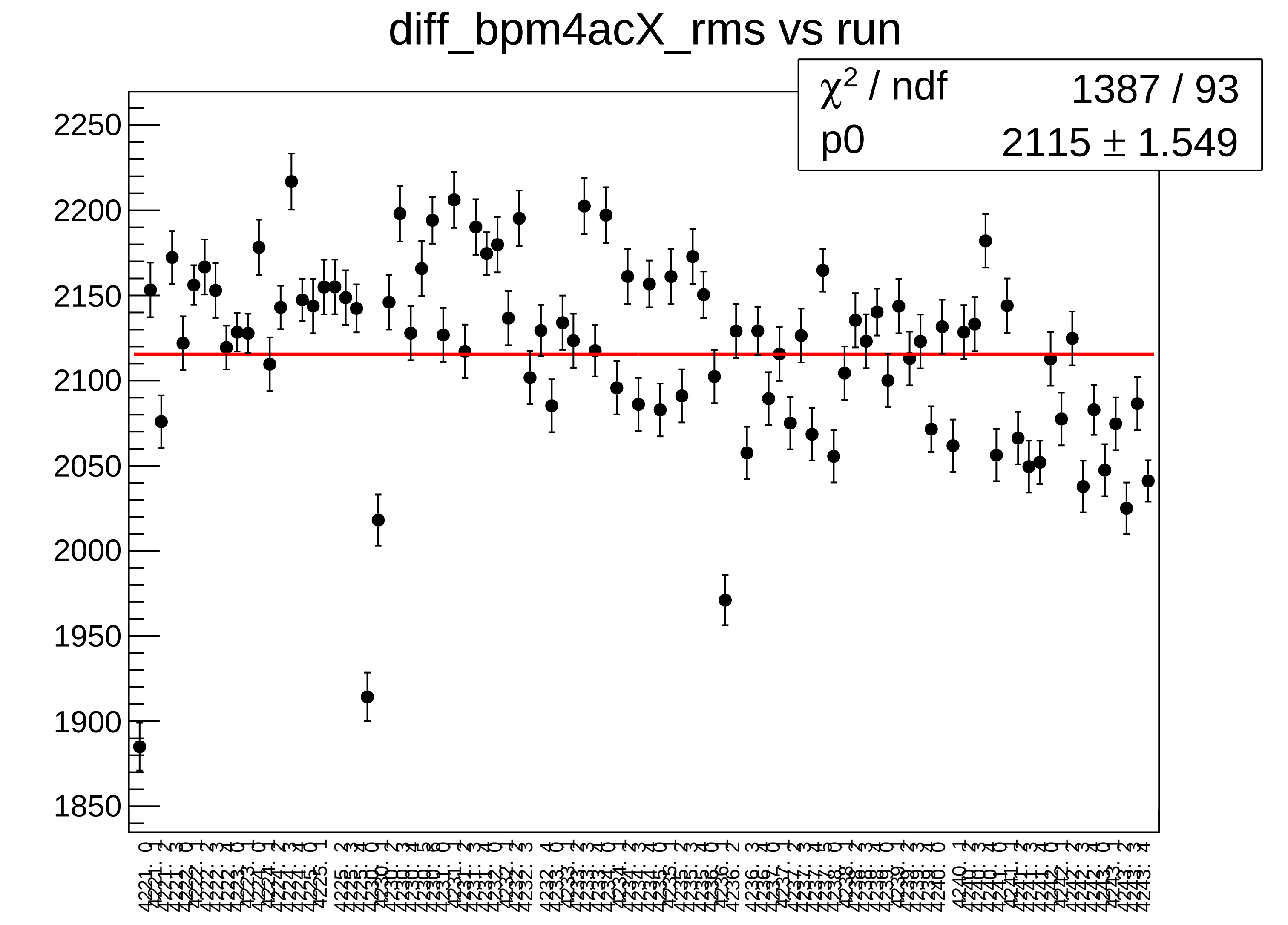
diff_bpm4eY_mean vs run
χ^2 / ndf 101.7 / 93
p0 5.109 ± 5.75
pull
Entries 94
Mean 12.01
Std Dev 53.86
pull1D
Entries 94
Mean −0.02701
Std Dev 1.04

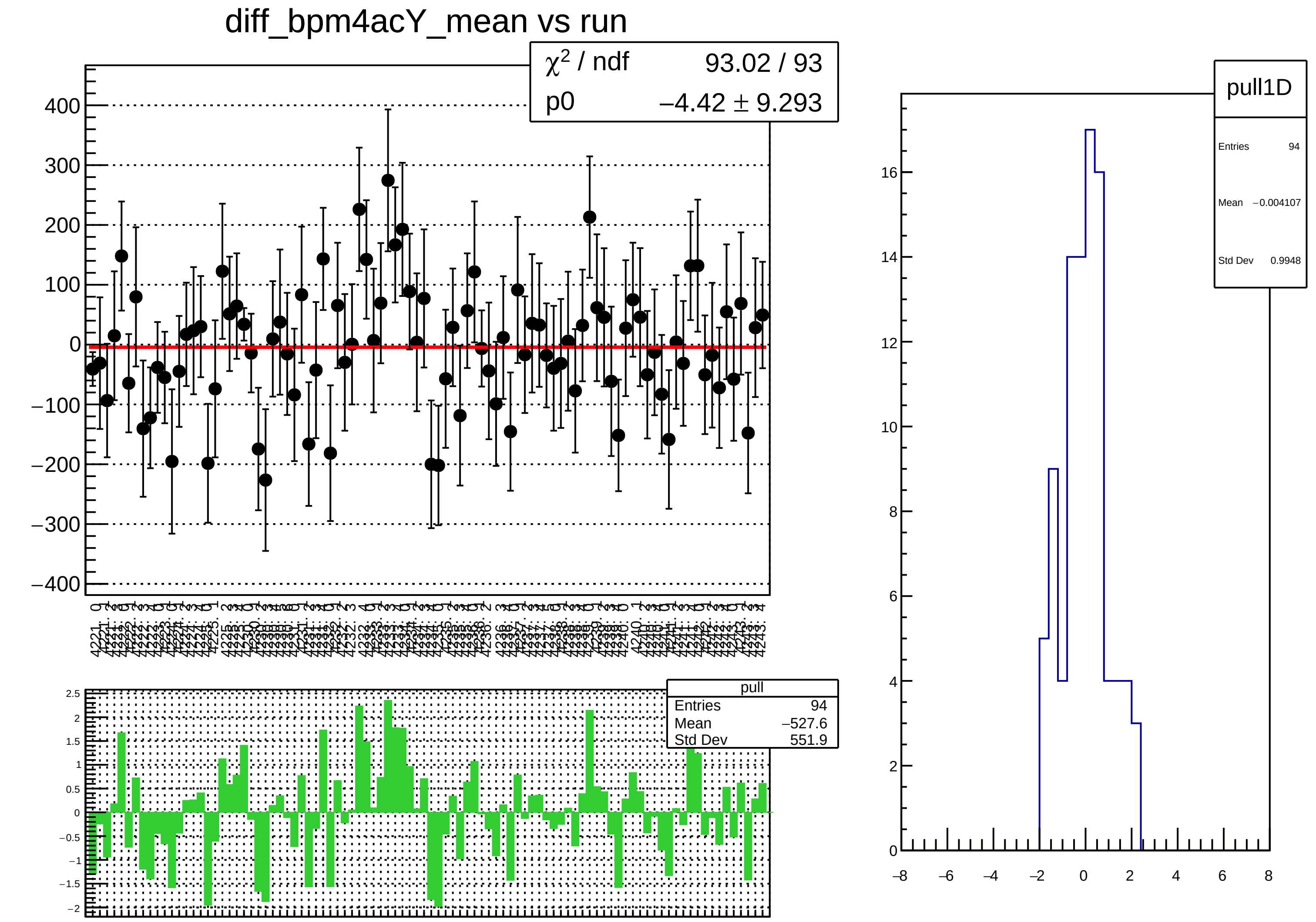


diff_bpm4eY_rms vs run
χ^2 / ndf 1.624e+05 / 93
p0 5307 ± 4.066
7000
6000
5000
4000
3000
2000

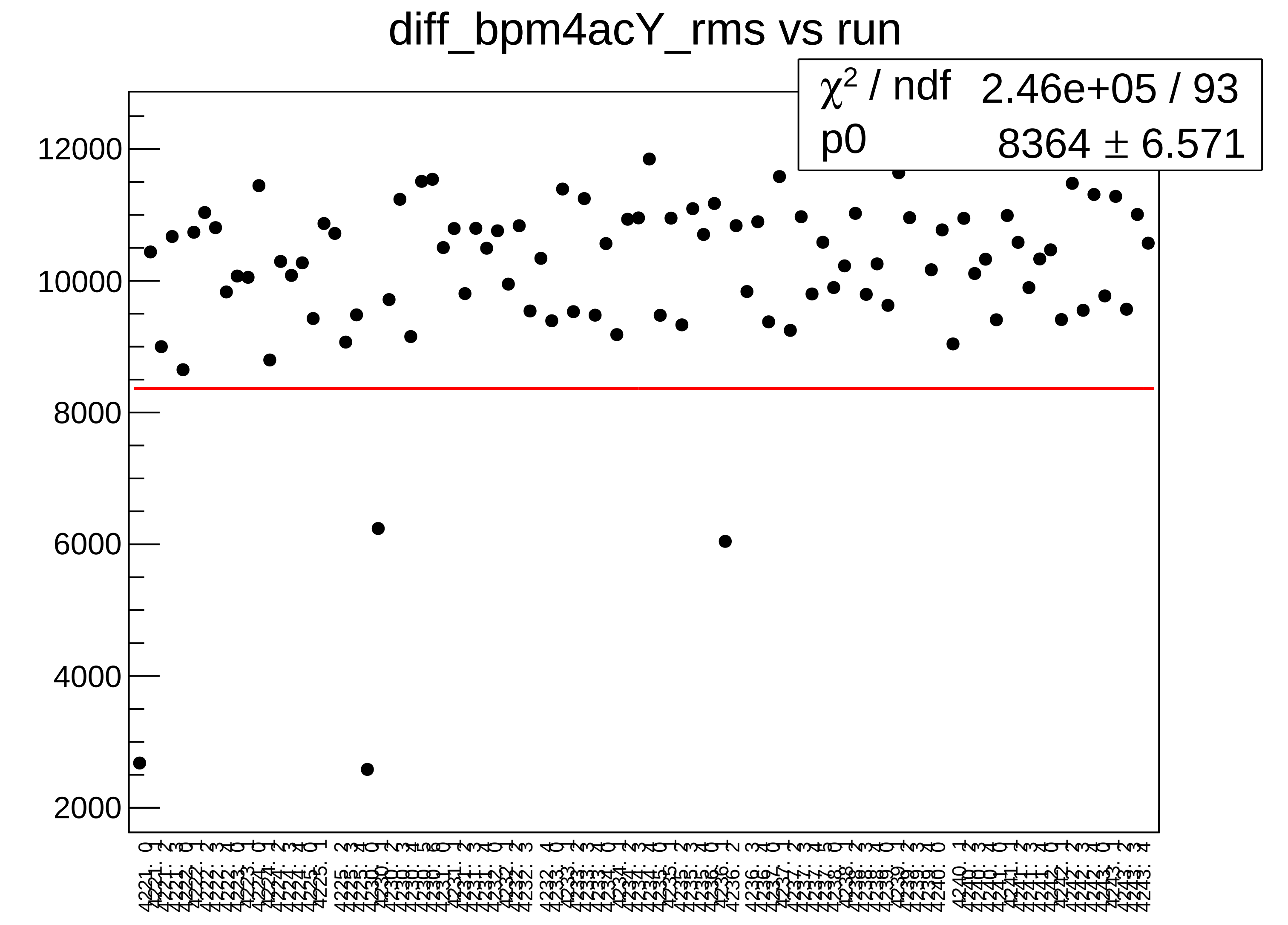


diff_bpm4acX_mean vs run
χ^2 / ndf 103.7 / 93
p0 −1.108 ± 2.191
pull
Entries 94
Mean −372.6
Std Dev 430
pull1D
Entries 94
Mean 0.01125
Std Dev 1.05

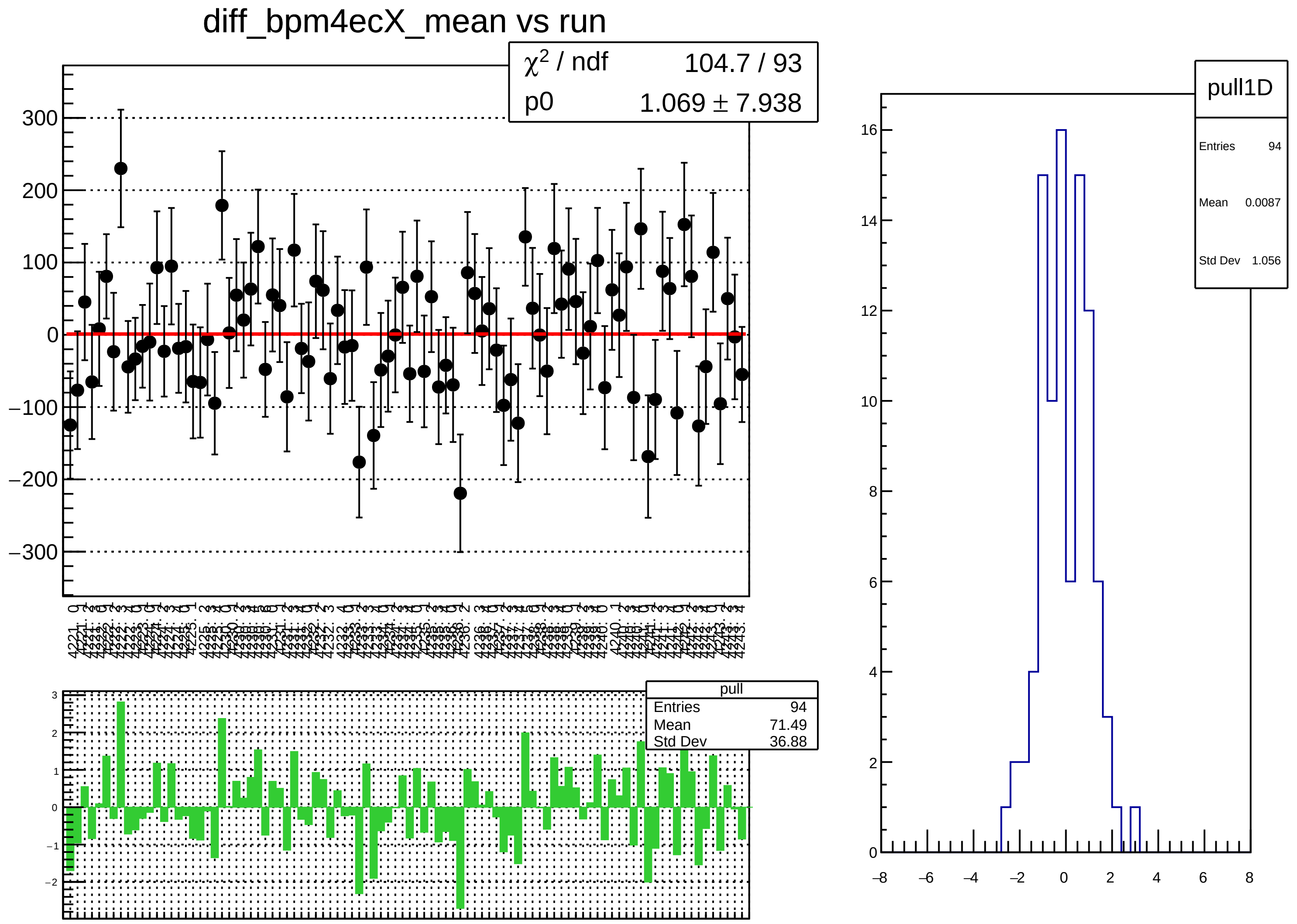

diff_bpm4acX_rms vs run
χ² / ndf 1387 / 93
p0 2115 ± 1.549
2250
2200
2150
2100
2050
2000
1950
1900
1850

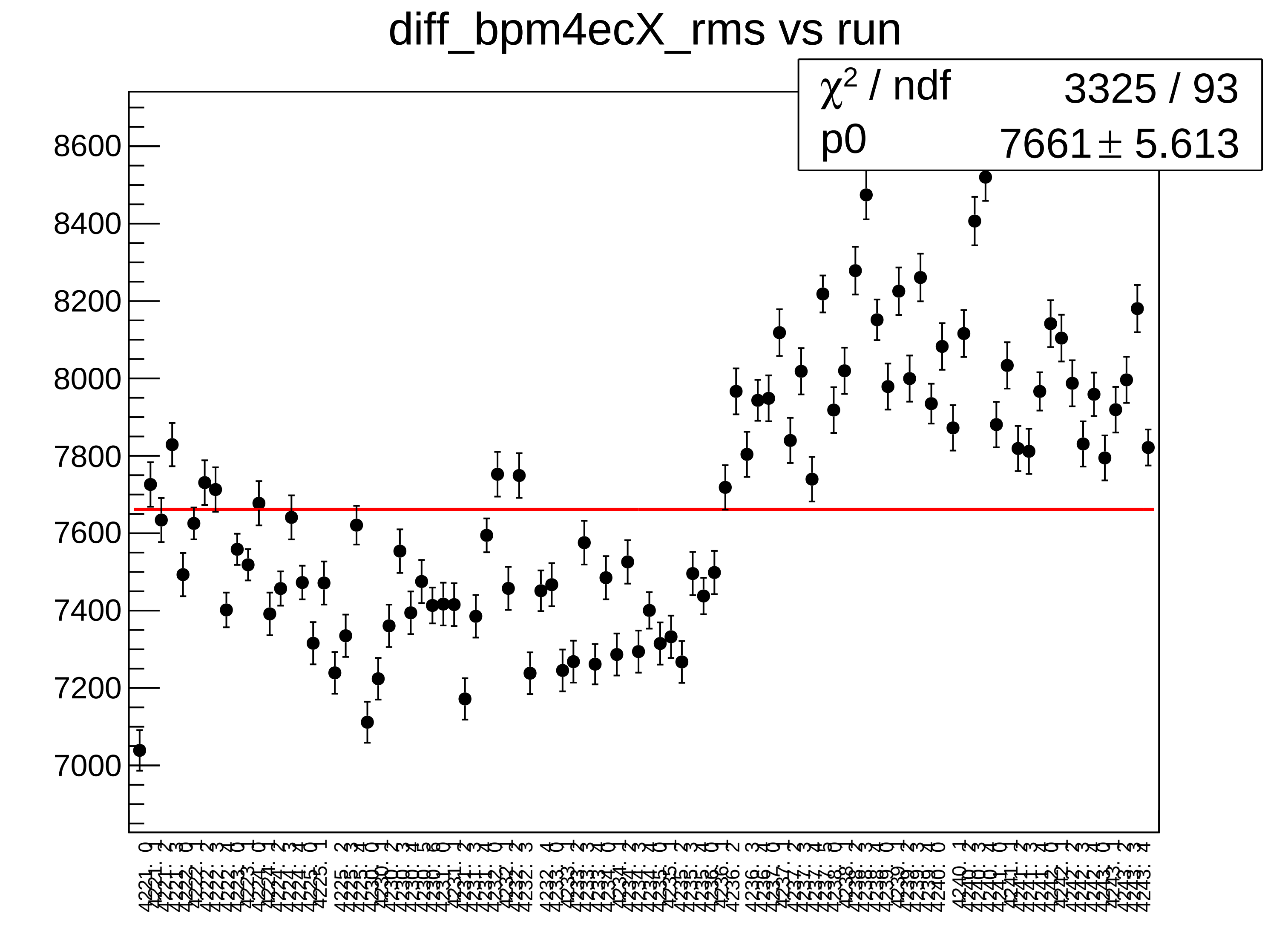


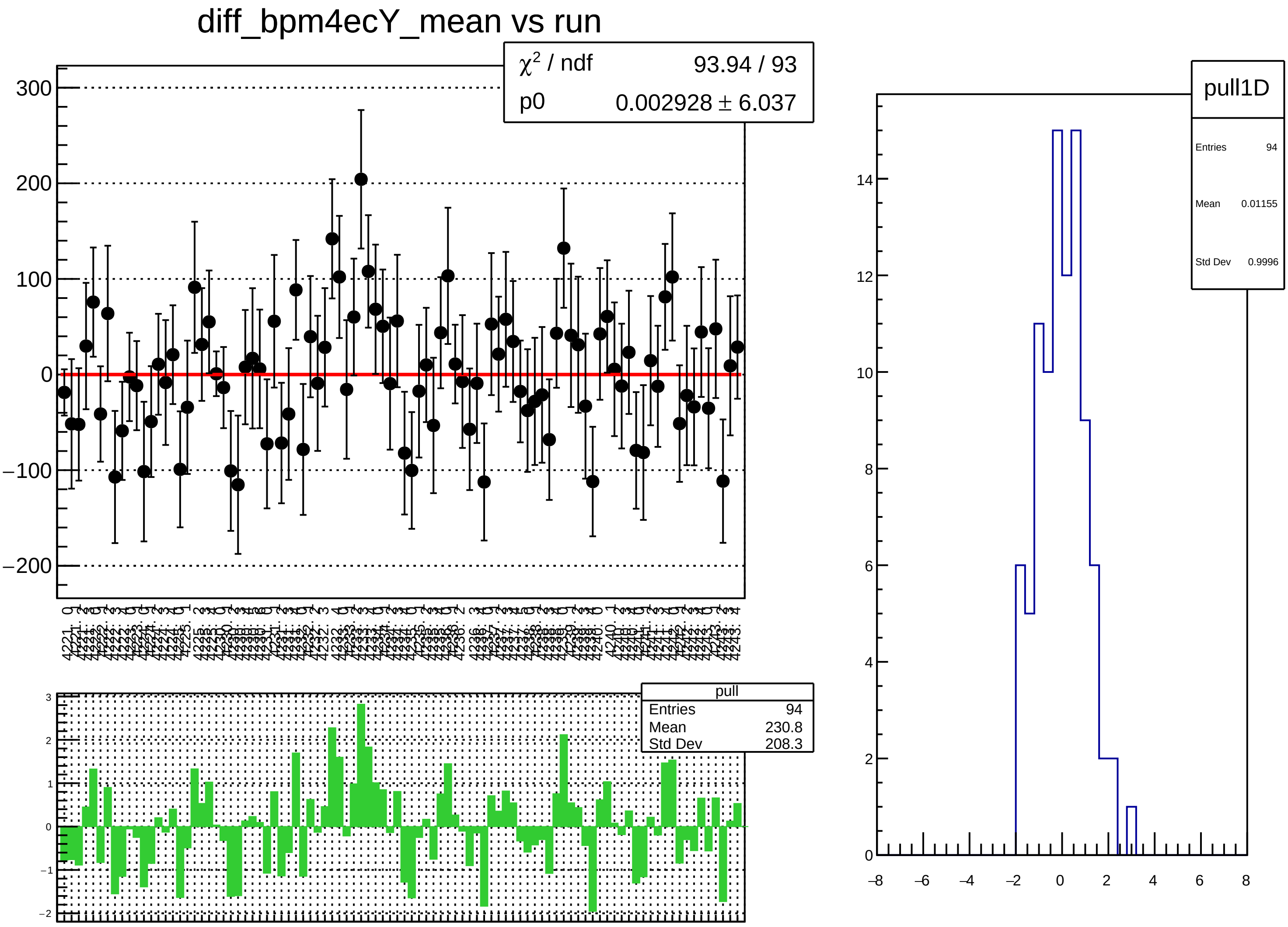
diff_bpm4acY_mean vs run
χ2 / ndf 93.02 / 93
p0 −4.42 ± 9.293
pull
Entries 94
Mean −527.6
Std Dev 551.9
pull1D
Entries 94
Mean −0.004107
Std Dev 0.9948



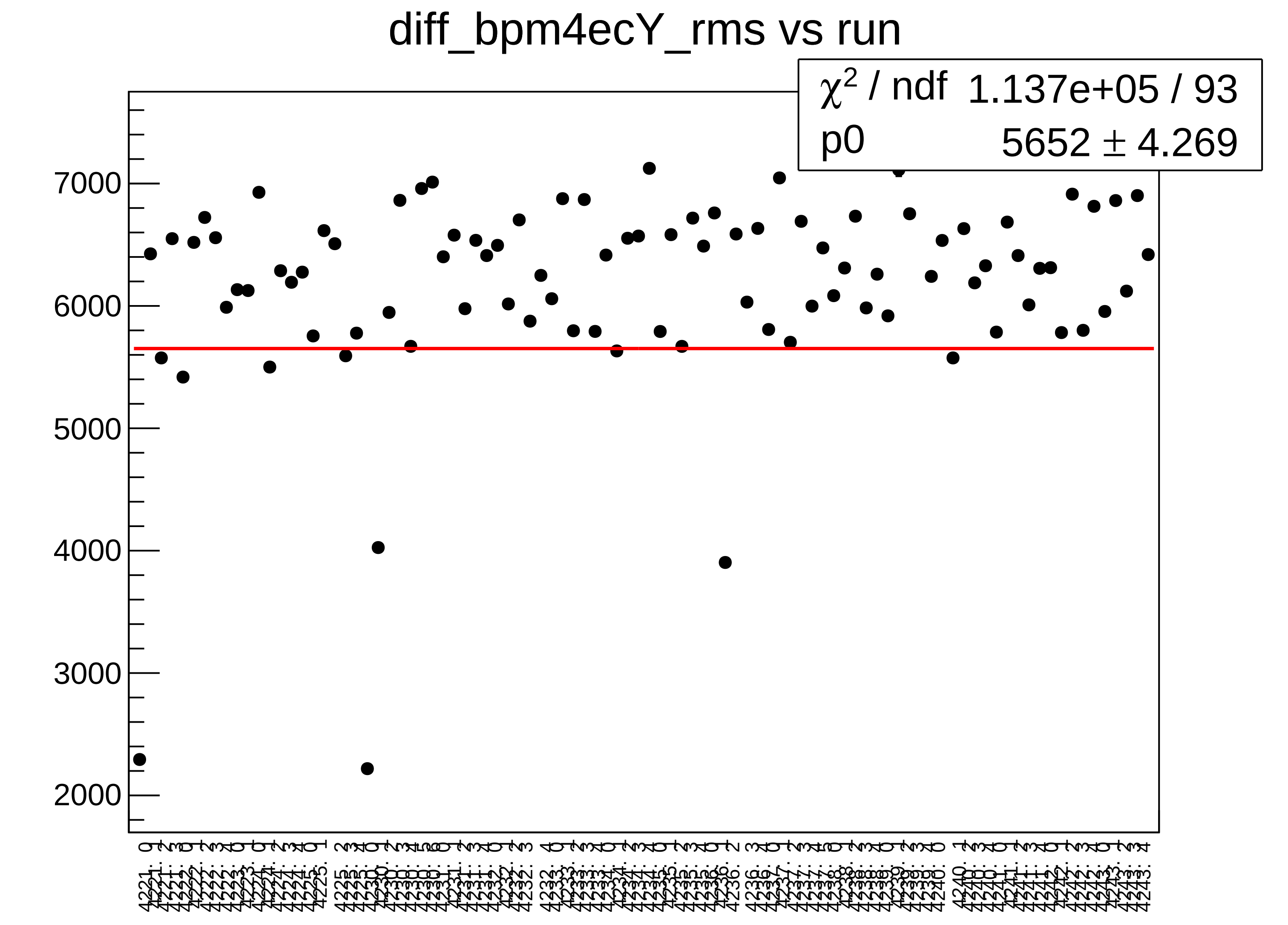
diff_bpm4acY_rms vs run
χ2 / ndf 2.46e+05 / 93
p0 8364 ± 6.571
12000
10000
8000
6000
4000
2000

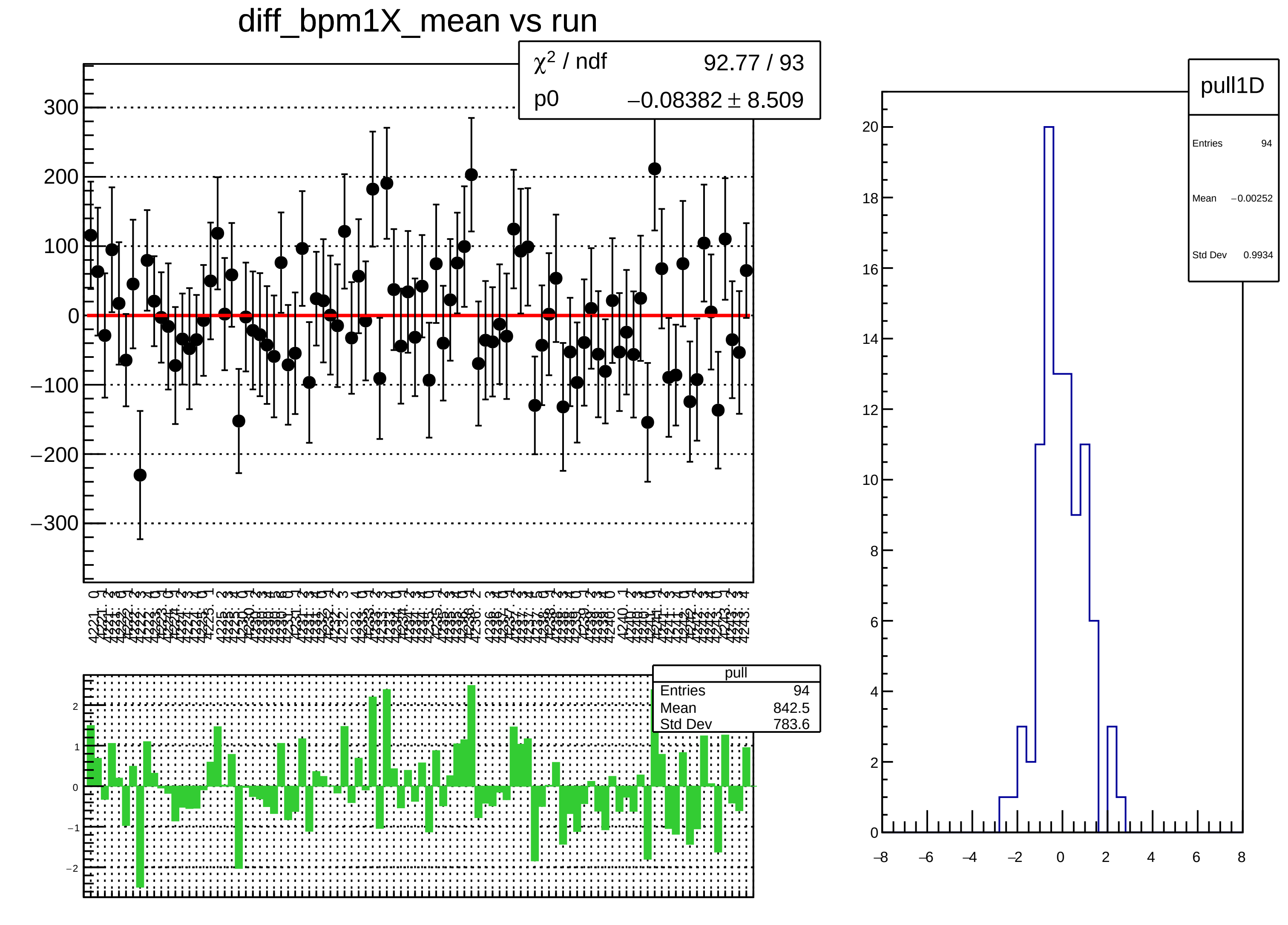

diff_bpm4ecX_mean vs run
χ^2 / ndf 104.7 / 93
p0 1.069 ± 7.938
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 71.49
Std Dev 36.88
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0087
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4ecX_rms vs run
χ^2 / ndf 3325 / 93
p0 7661 ± 5.613
8600
8400
8200
8000
7800
7600
7400
7200
7000

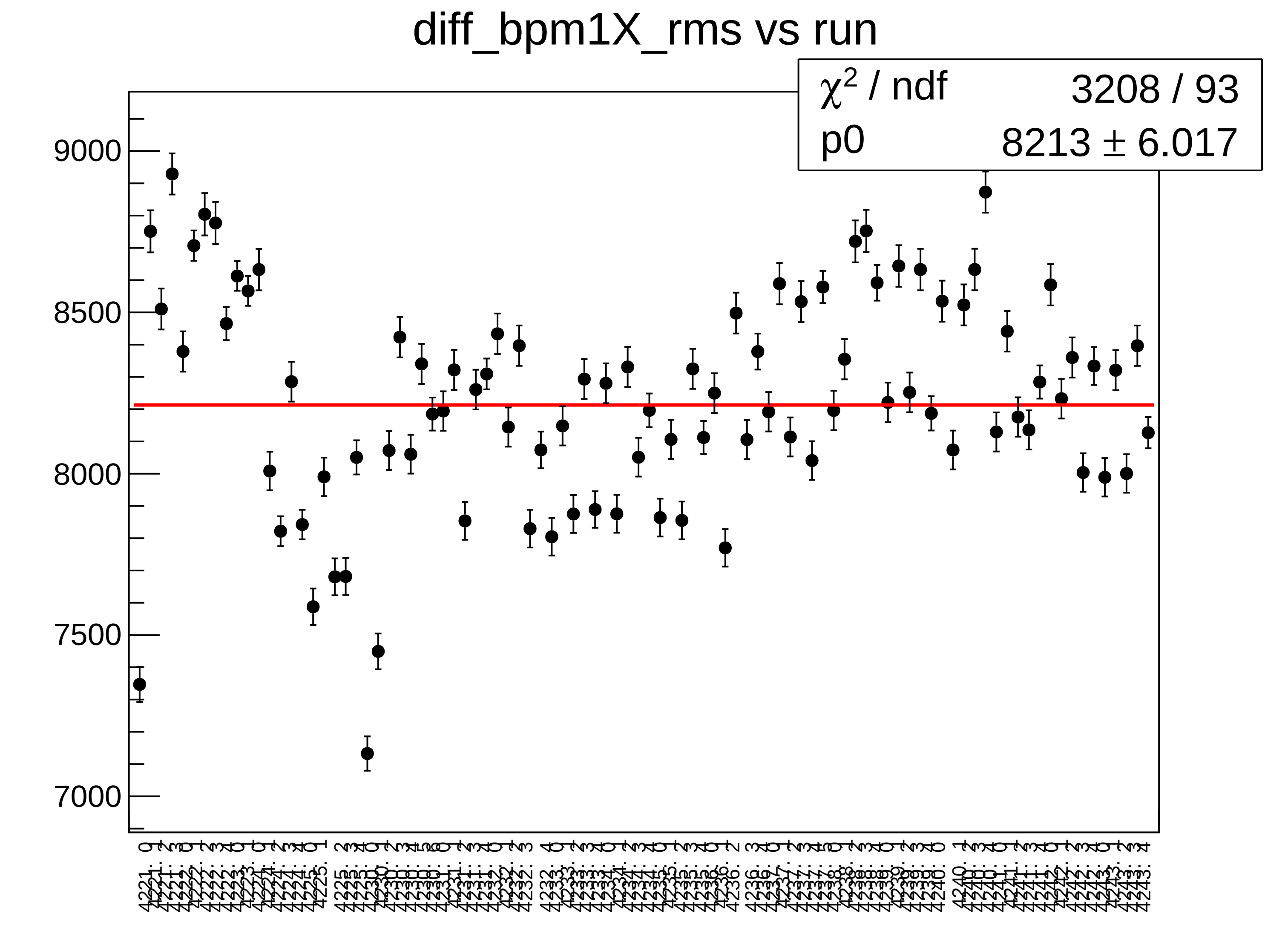


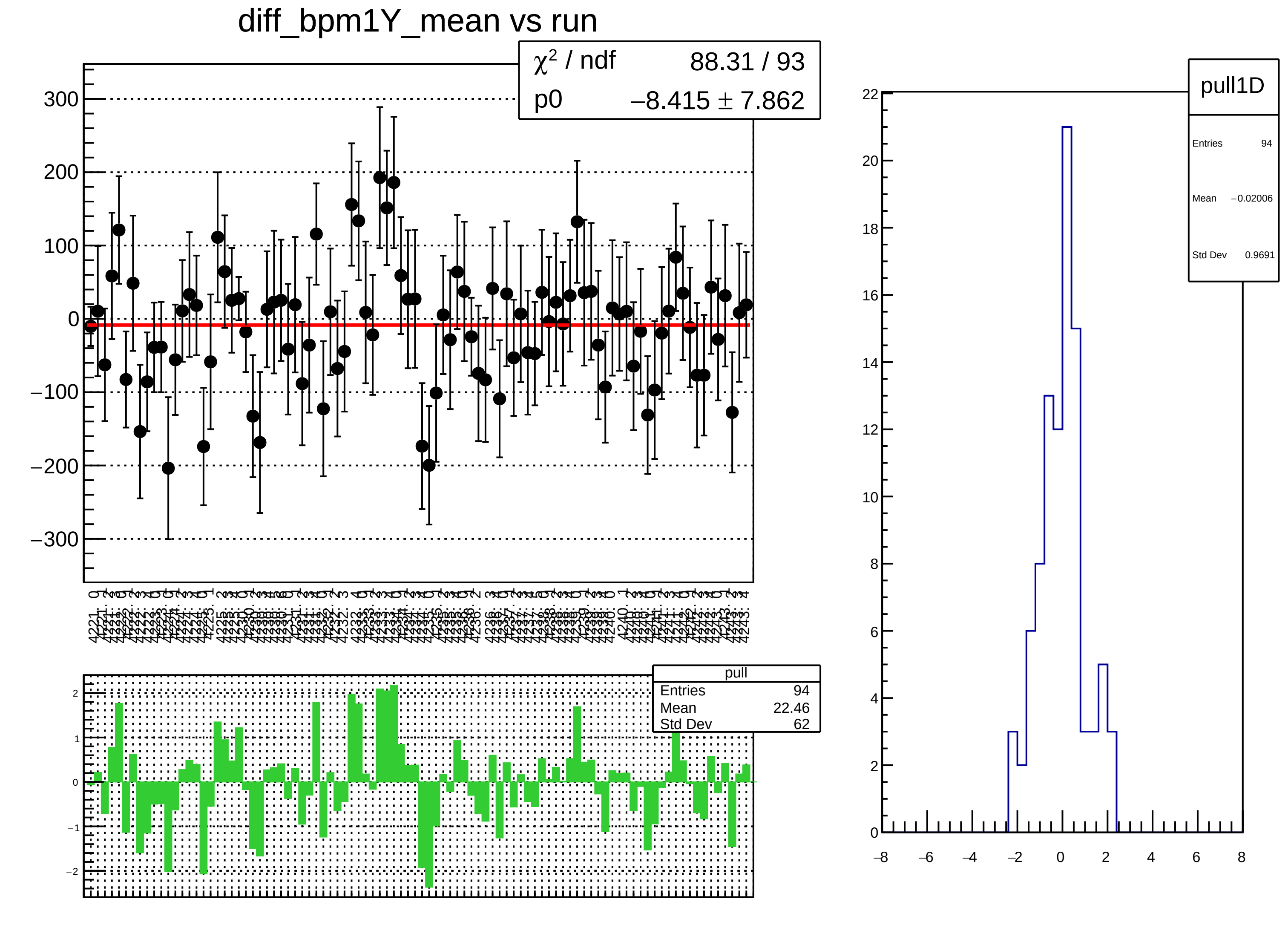
diff_bpm4ecY_mean vs run
χ^2 / ndf 93.94 / 93
p0 0.002928 ± 6.037
pull
Entries 94
Mean 230.8
Std Dev 208.3
pull1D
Entries 94
Mean 0.01155
Std Dev 0.9996


diff_bpm4ecY_rms vs run
χ2 / ndf 1.137e+05 / 93
p0 5652 ± 4.269
7000
6000
5000
4000
3000
2000

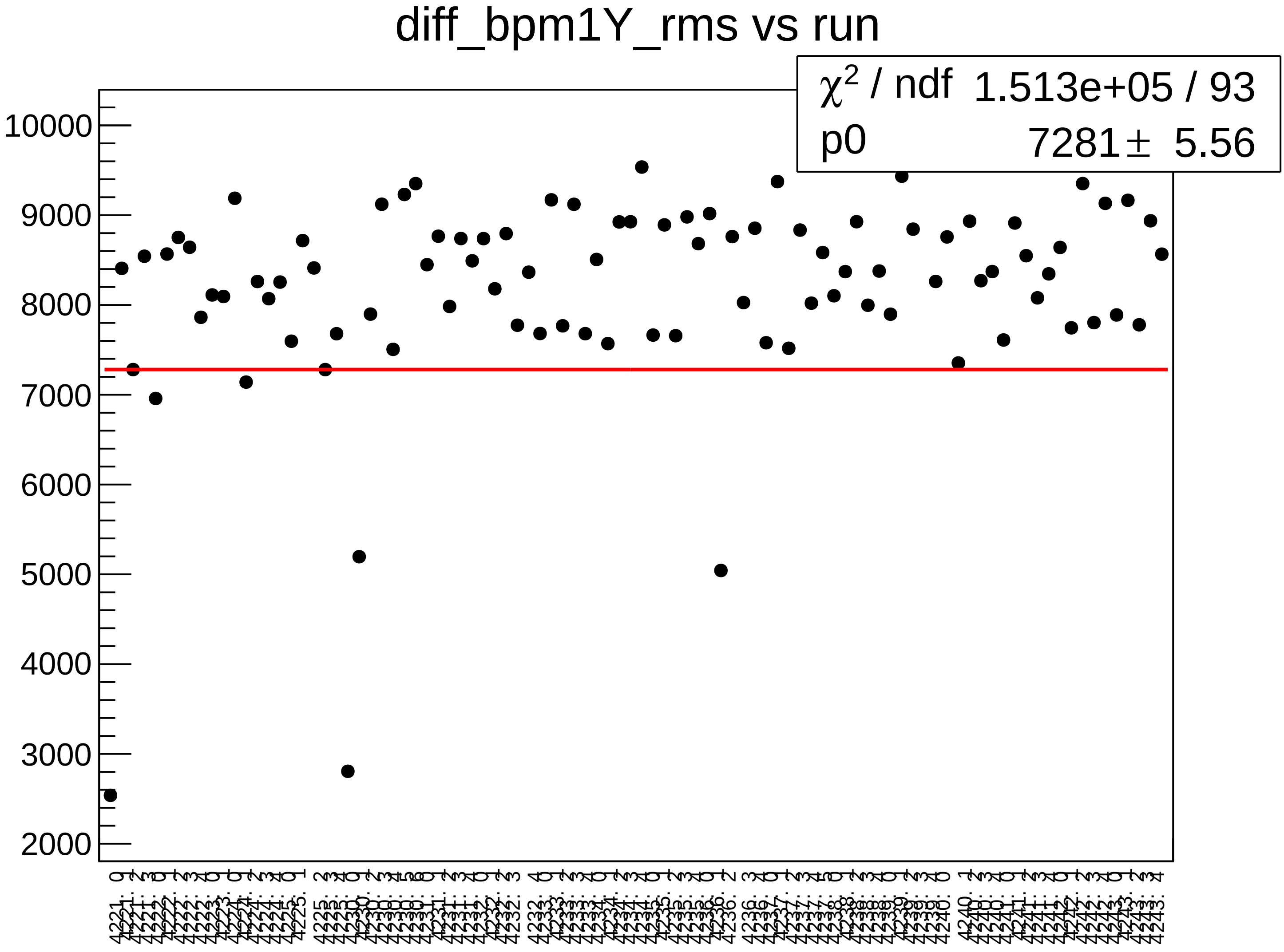


diff_bpm1X_mean vs run
χ^2 / ndf 92.77 / 93
p0 −0.08382 ± 8.509
pull
Entries 94
Mean 842.5
Std Dev 783.6
pull1D
Entries 94
Mean −0.00252
Std Dev 0.9934

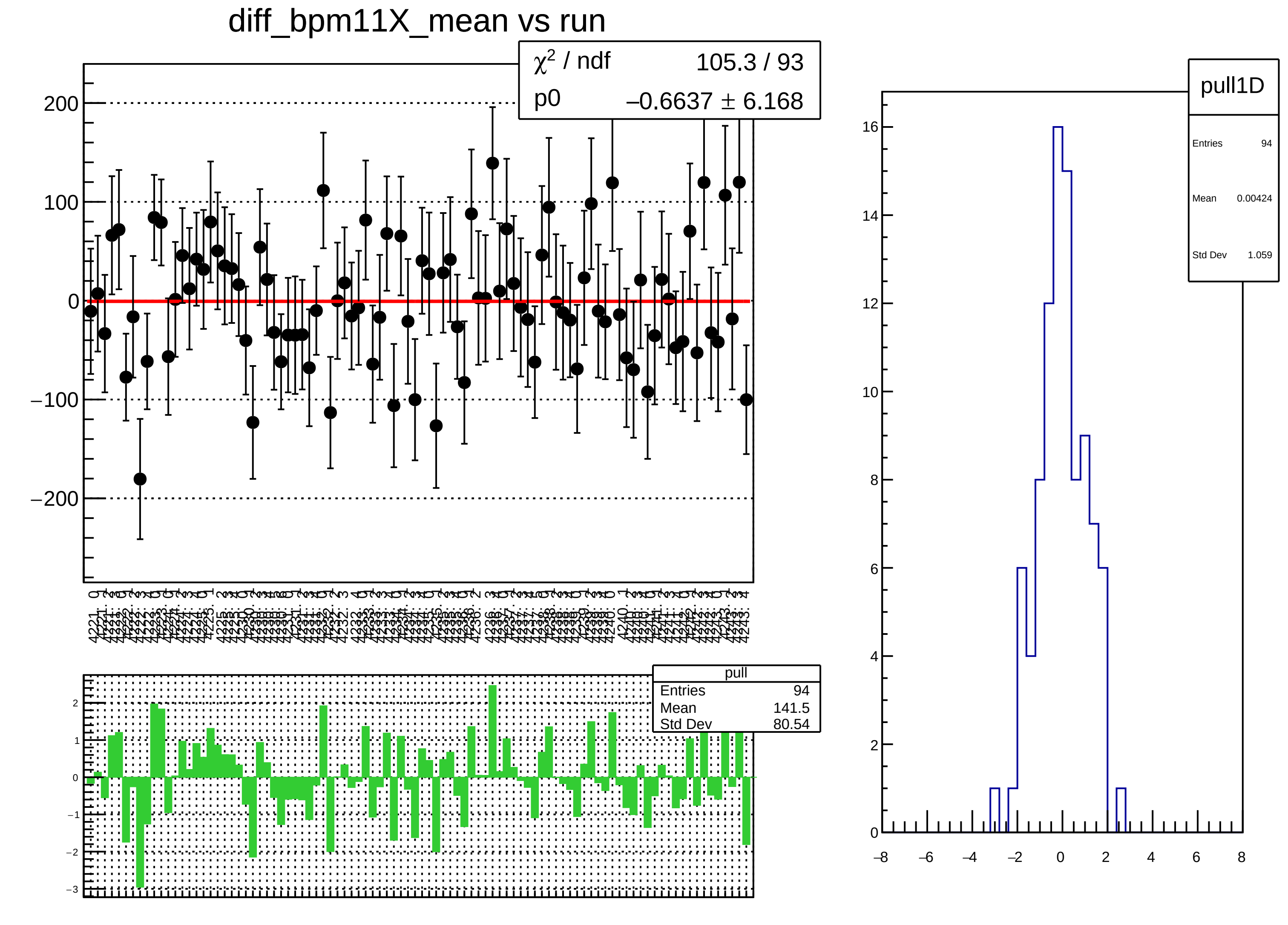

diff_bpm1X_rms vs run
χ^2 / ndf 3208 / 93
p0 8213 ± 6.017
9000
8500
8000
7500
7000



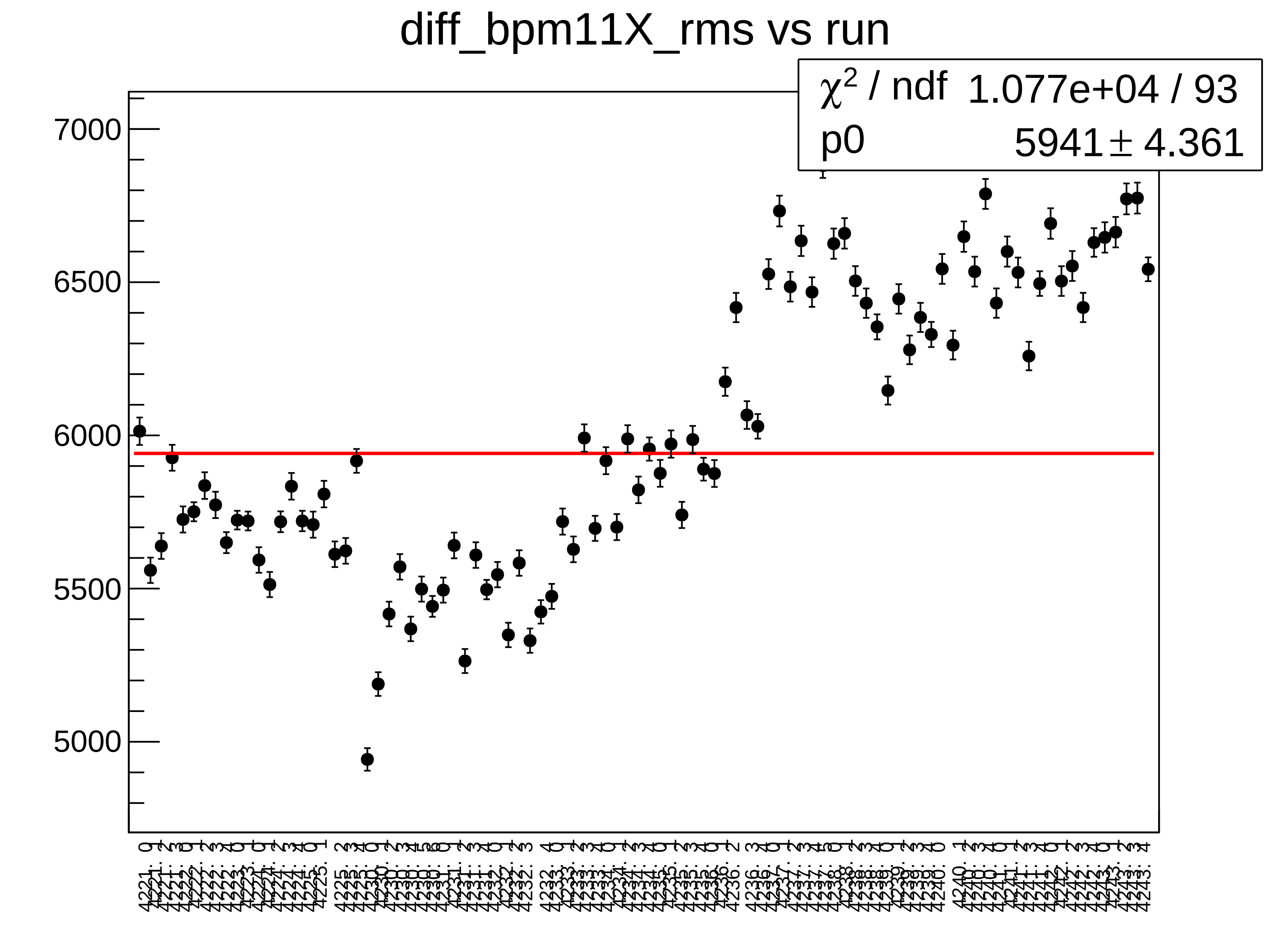
diff_bpm1Y_mean vs run
χ2 / ndf 88.31 / 93
p0 −8.415 ± 7.862
pull
Entries 94
Mean 22.46
Std Dev 62
pull1D
Entries 94
Mean −0.02006
Std Dev 0.9691



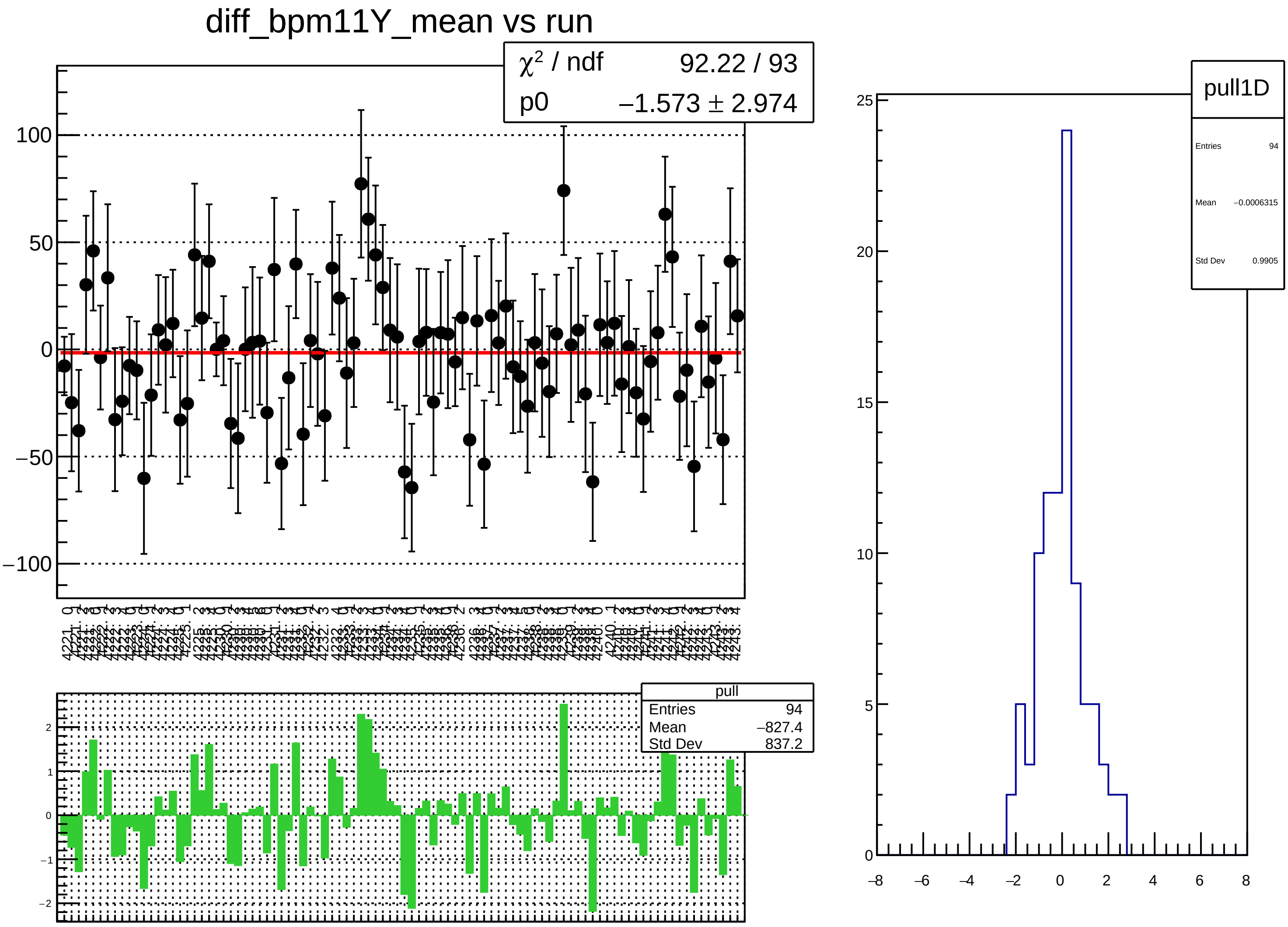
diff_bpm1Y_rms vs run
χ^2 / ndf 1.513e+05 / 93
p0 7281 ± 5.56
10000
9000
8000
7000
6000
5000
4000
3000
2000



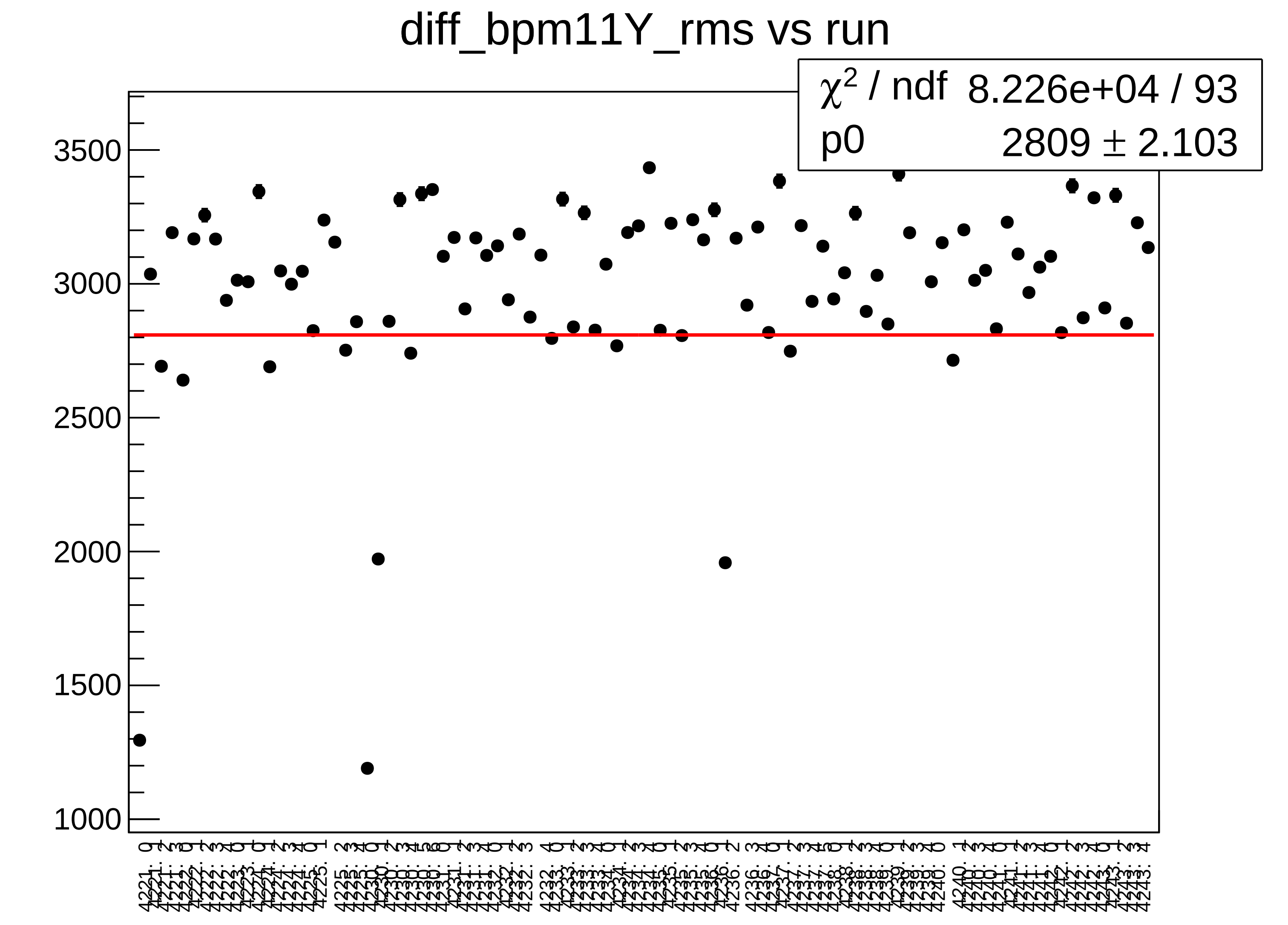
diff_bpm11X_mean vs run
χ^2 / ndf 105.3 / 93
p0 −0.6637 ± 6.168
pull
Entries 94
Mean 141.5
Std Dev 80.54
pull1D
Entries 94
Mean 0.00424
Std Dev 1.059



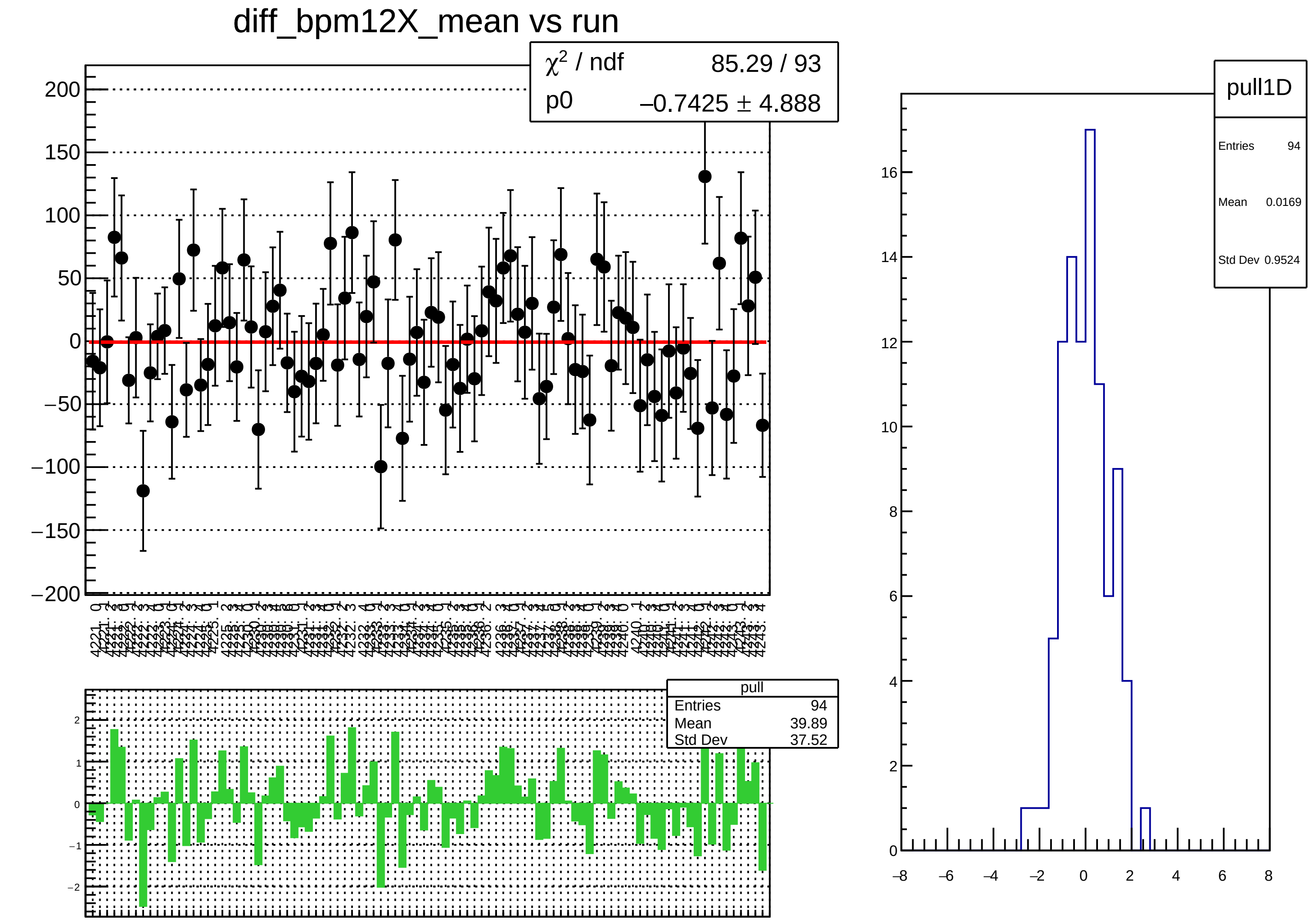
diff_bpm11X_rms vs run
χ² / ndf 1.077e+04 / 93
p0 5941 ± 4.361
7000
6500
6000
5500
5000



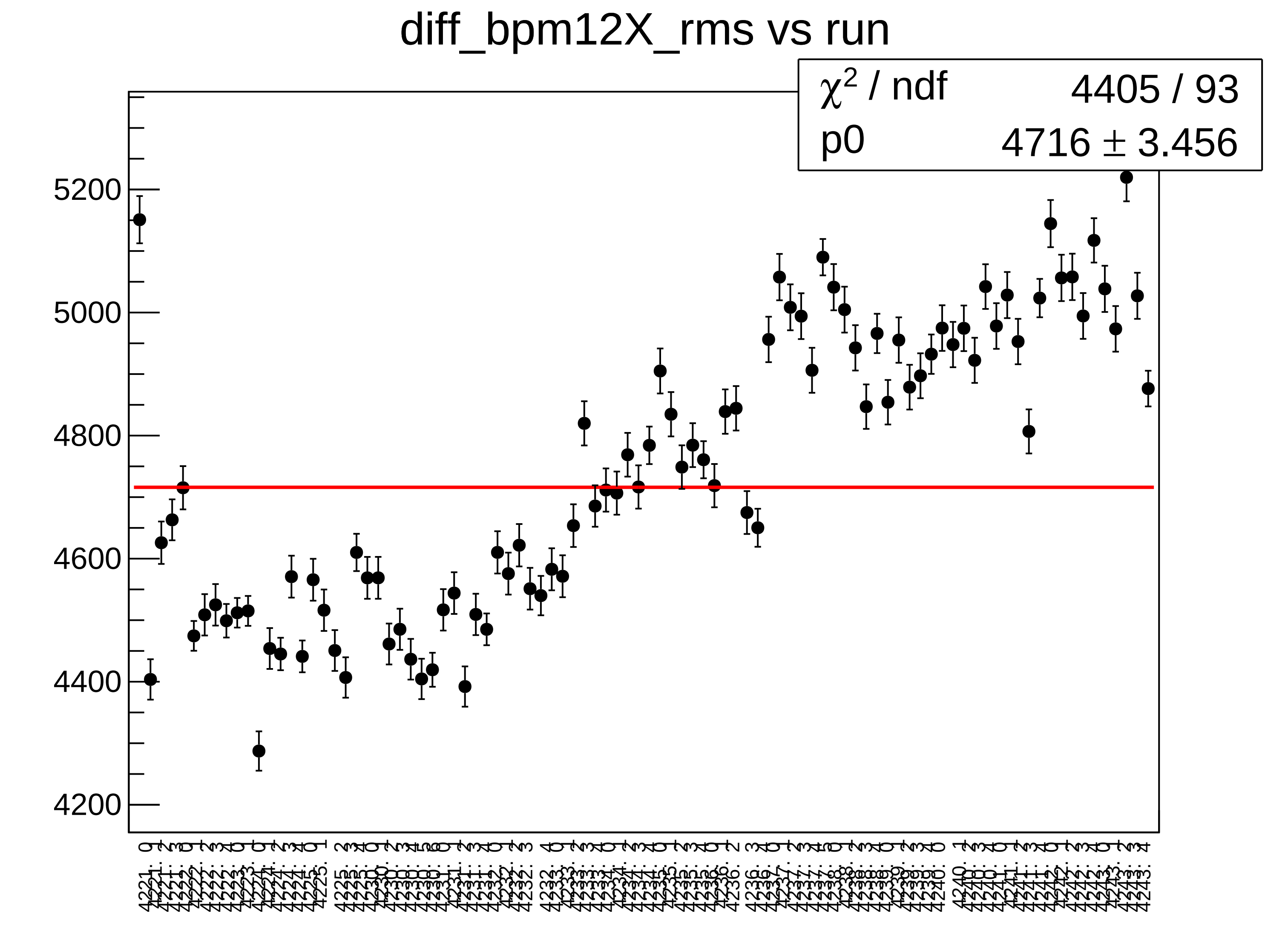
diff_bpm11Y_mean vs run
χ2 / ndf 92.22 / 93
p0 −1.573 ± 2.974
pull
Entries 94
Mean −827.4
Std Dev 837.2
pull1D
Entries 94
Mean −0.0006315
Std Dev 0.9905



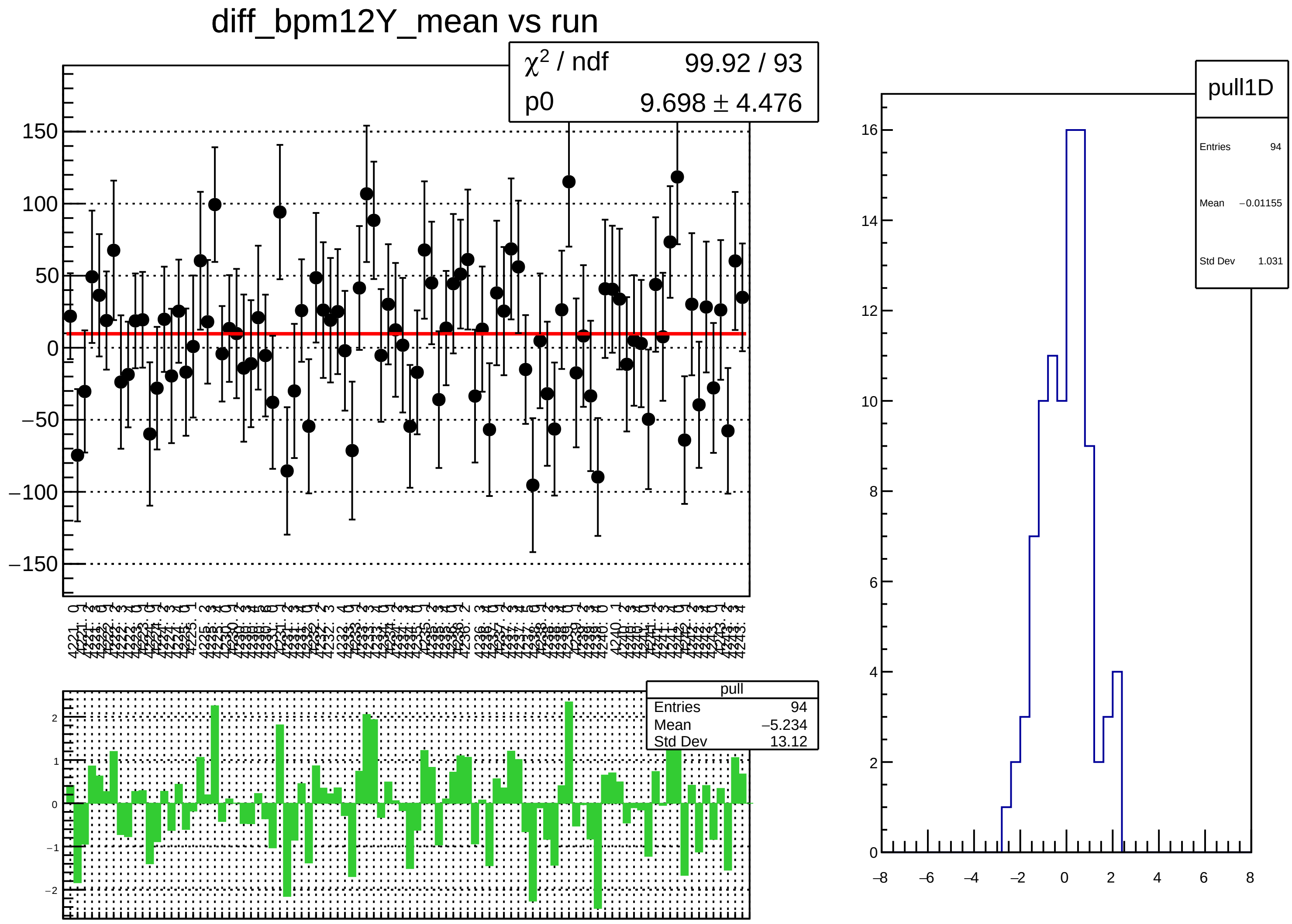
diff_bpm11Y_rms vs run
χ^2 / ndf 8.226e+04 / 93
p0 2809 ± 2.103
3500
3000
2500
2000
1500
1000



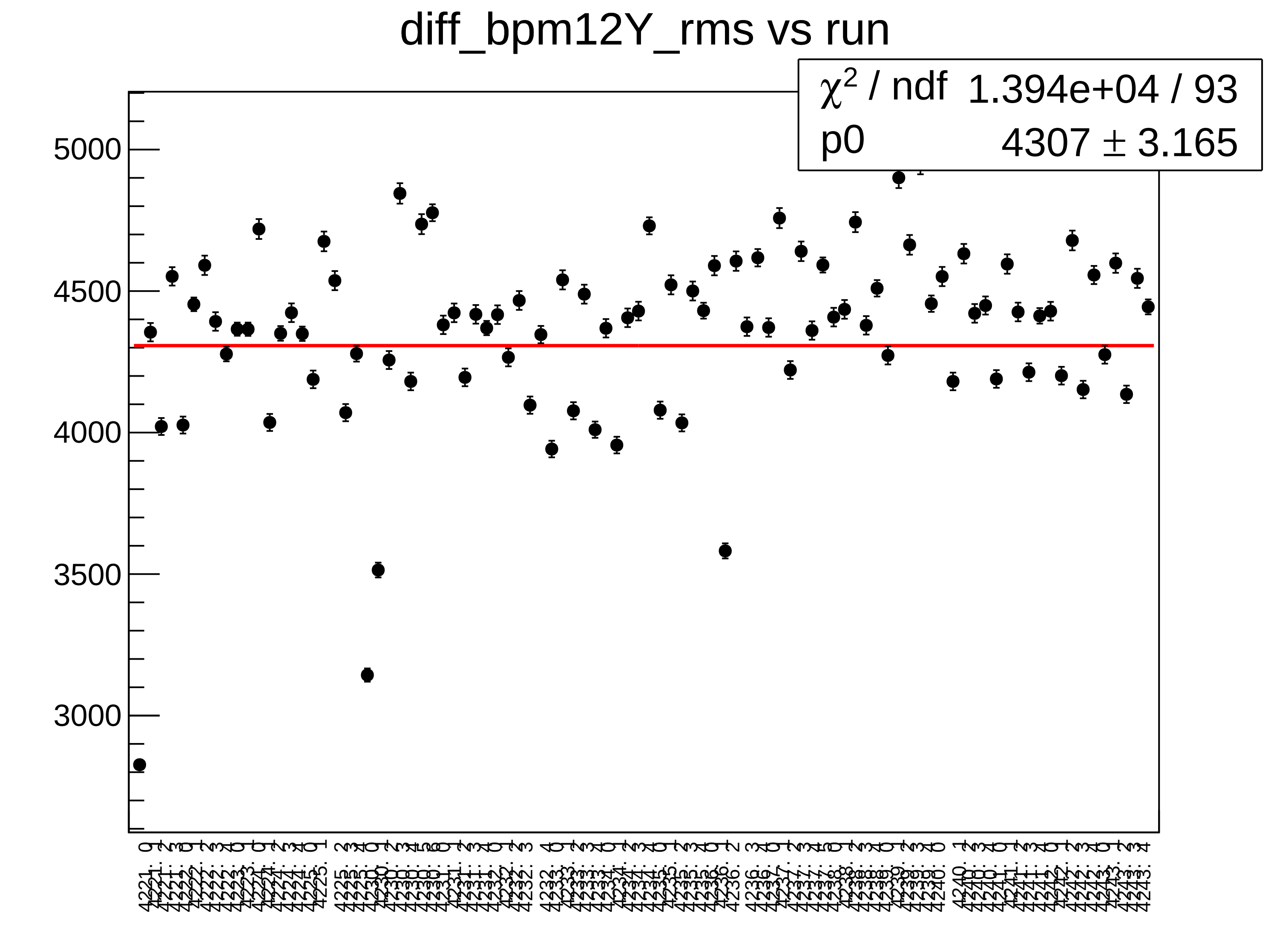
diff_bpm12X_mean vs run
χ^2 / ndf 85.29 / 93
p0 −0.7425 ± 4.888
pull
Entries 94
Mean 39.89
Std Dev 37.52
pull1D
Entries 94
Mean 0.0169
Std Dev 0.9524

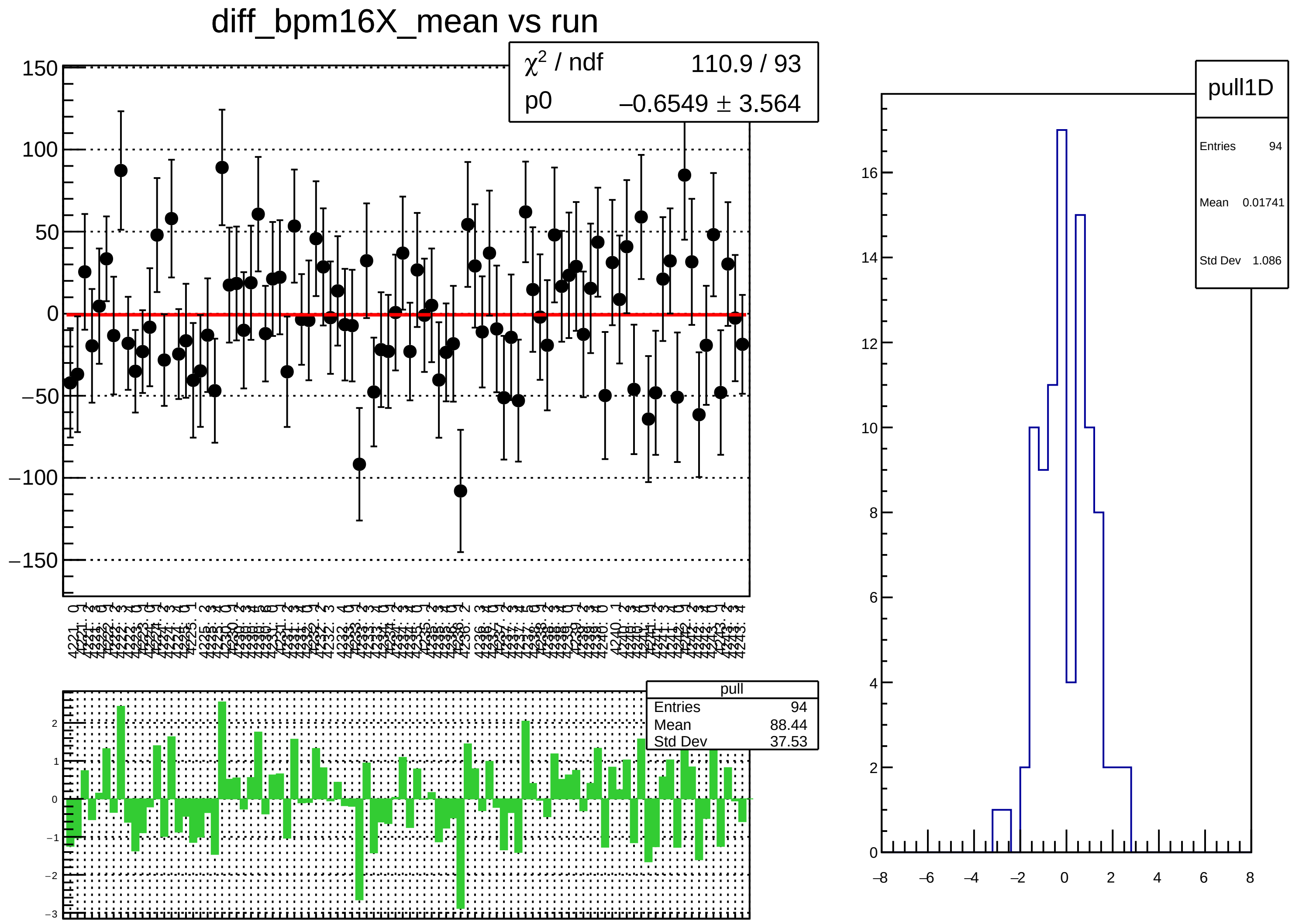


diff_bpm12X_rms vs run
χ^2 / ndf 4405 / 93
p0 4716 ± 3.456
5200
5000
4800
4600
4400
4200

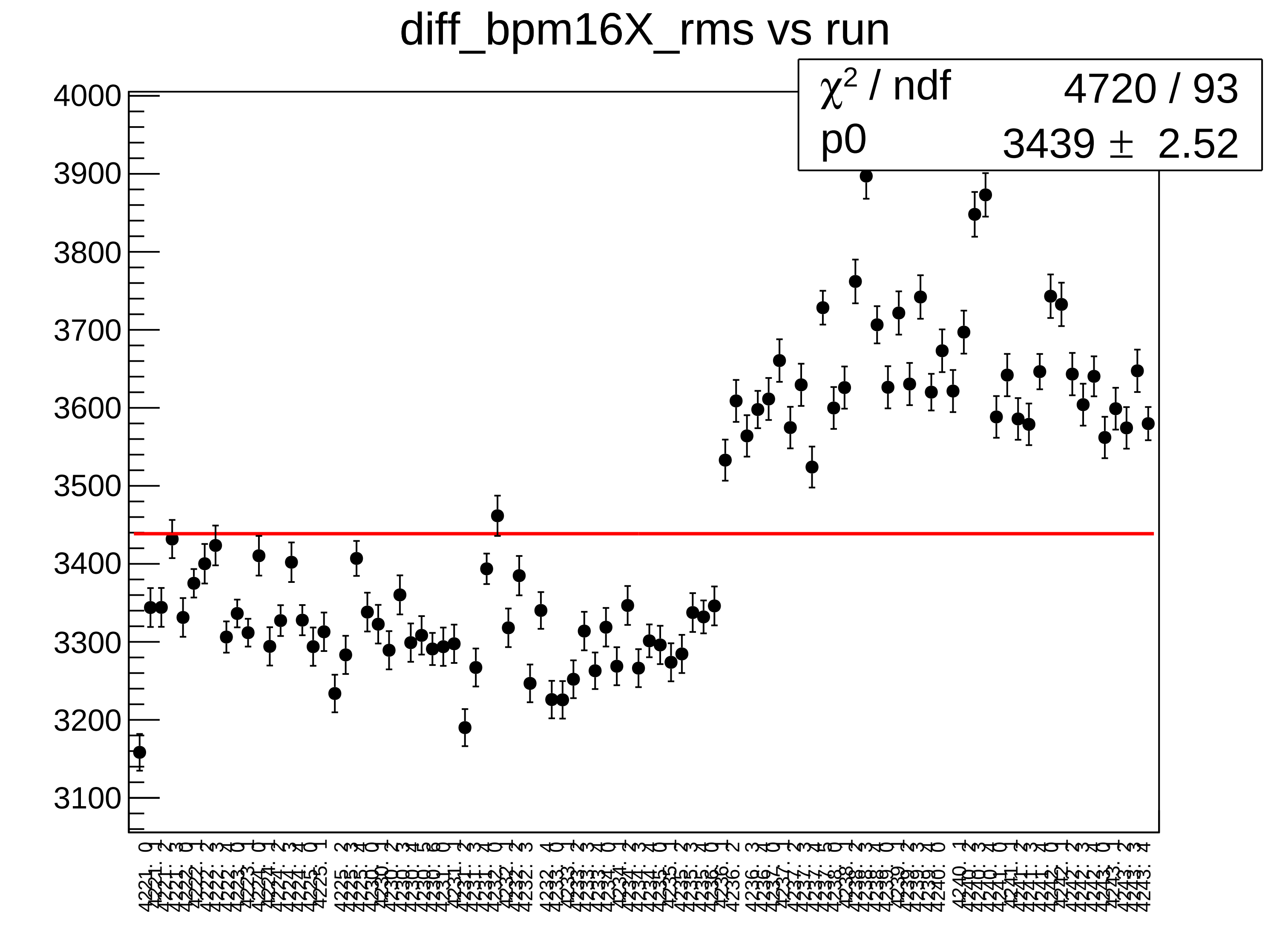


diff_bpm12Y_mean vs run
χ^2 / ndf 99.92 / 93
p0 9.698 ± 4.476
pull
Entries 94
Mean −5.234
Std Dev 13.12
pull1D
Entries 94
Mean −0.01155
Std Dev 1.031

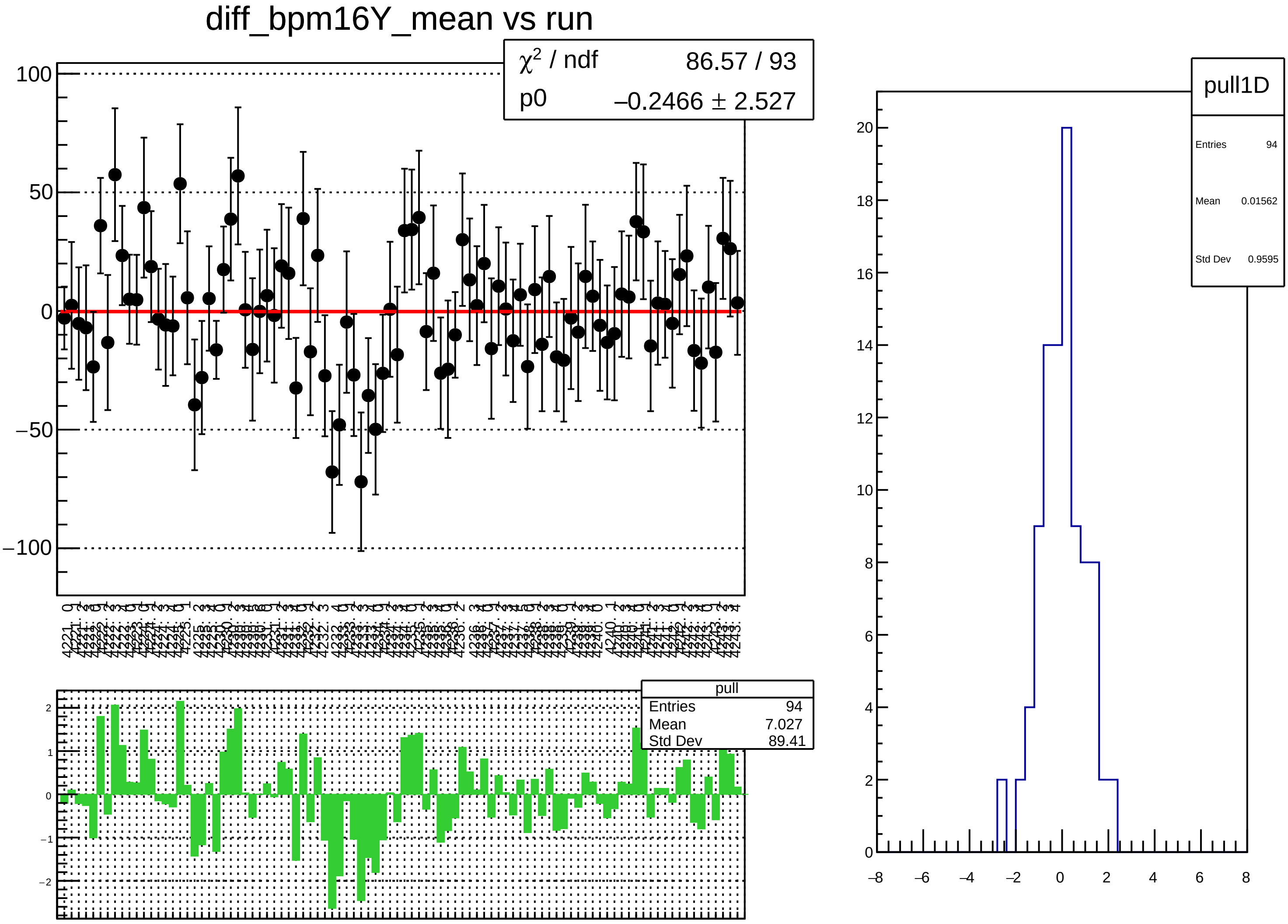

diff_bpm12Y_rms vs run
χ2 / ndf 1.394e+04 / 93
p0 4307 ± 3.165
5000
4500
4000
3500
3000

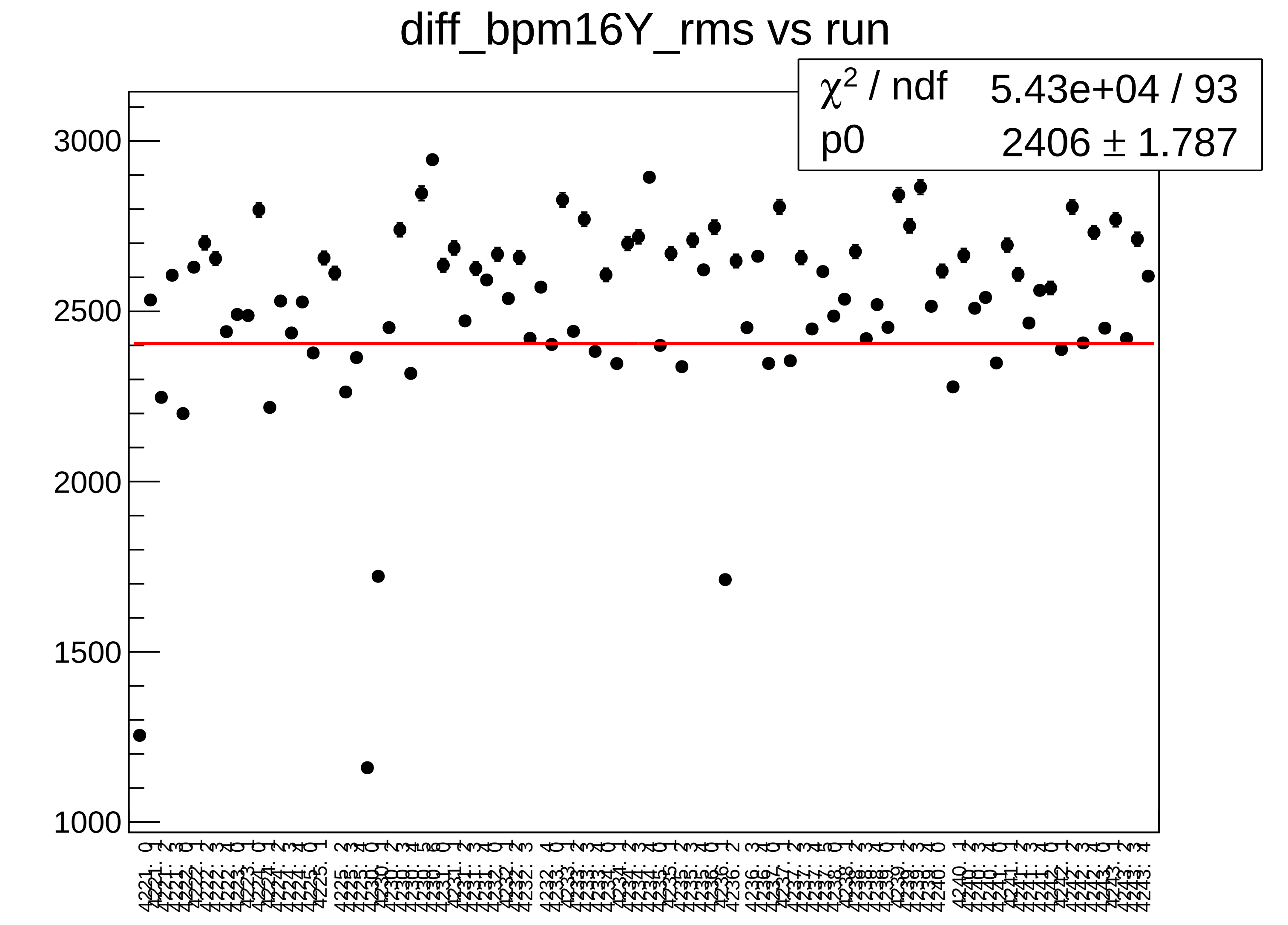


diff_bpm16X_mean vs run
χ2 / ndf 110.9 / 93
p0 −0.6549 ± 3.564
pull
Entries 94
Mean 88.44
Std Dev 37.53
pull1D
Entries 94
Mean 0.01741
Std Dev 1.086

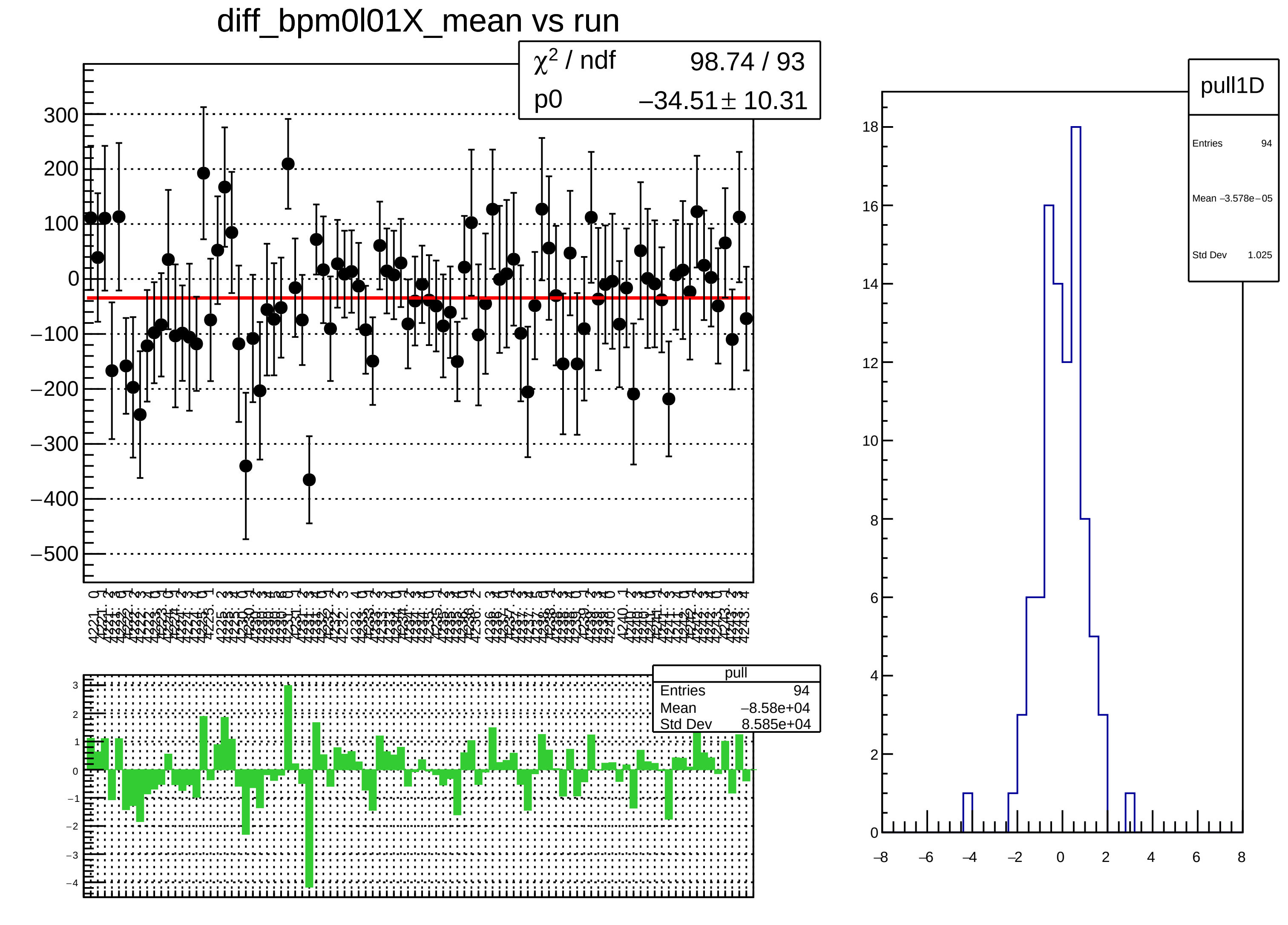


diff_bpm16X_rms vs run
χ^2 / ndf 4720 / 93
p0 3439 ± 2.52
4000
3900
3800
3700
3600
3500
3400
3300
3200
3100

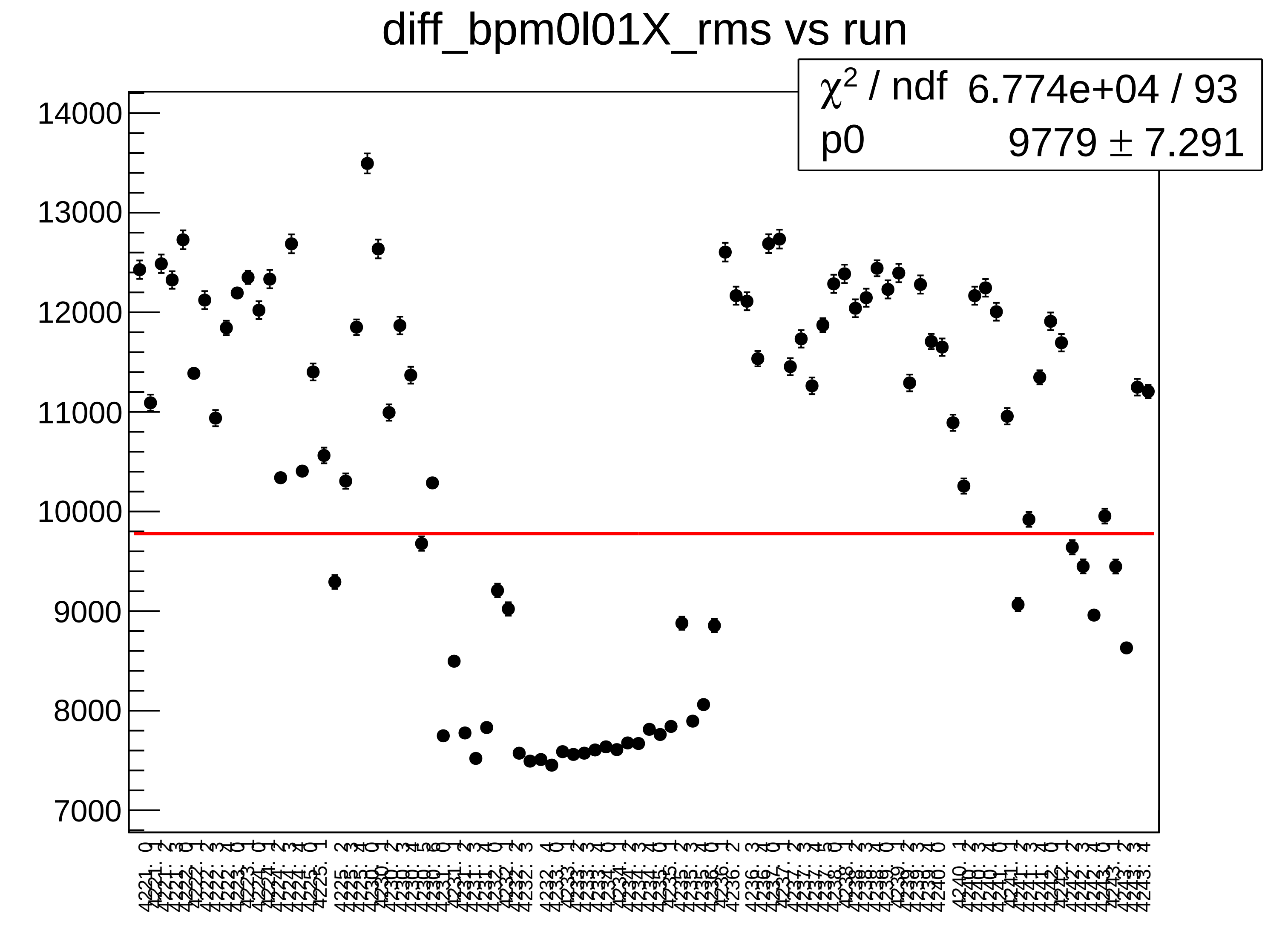

diff_bpm16Y_mean vs run
χ2 / ndf 86.57 / 93
p0 −0.2466 ± 2.527
pull
Entries 94
Mean 7.027
Std Dev 89.41
pull1D
Entries 94
Mean 0.01562
Std Dev 0.9595



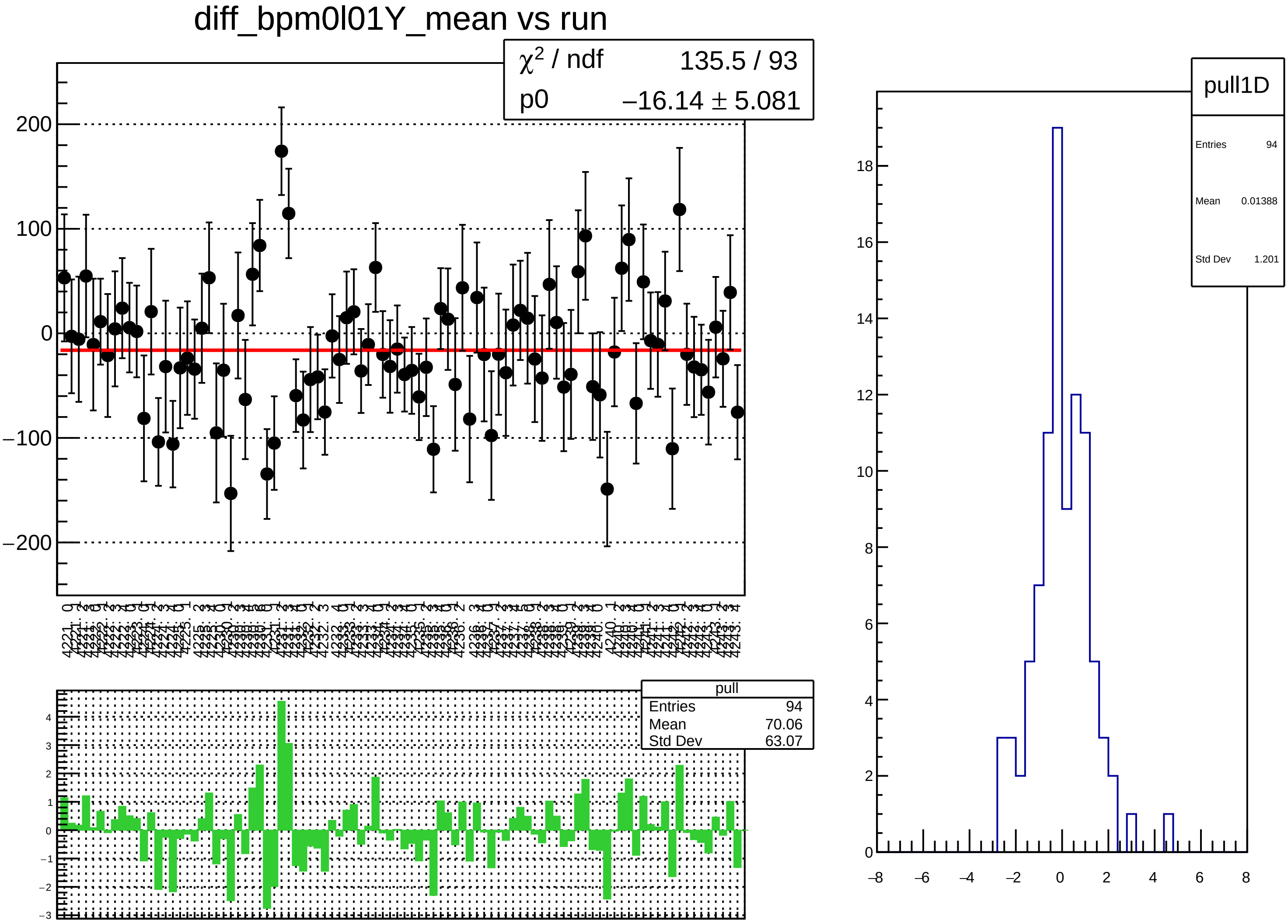
diff_bpm16Y_rms vs run
χ^2 / ndf 5.43e+04 / 93
p0 2406 ± 1.787
3000
2500
2000
1500
1000



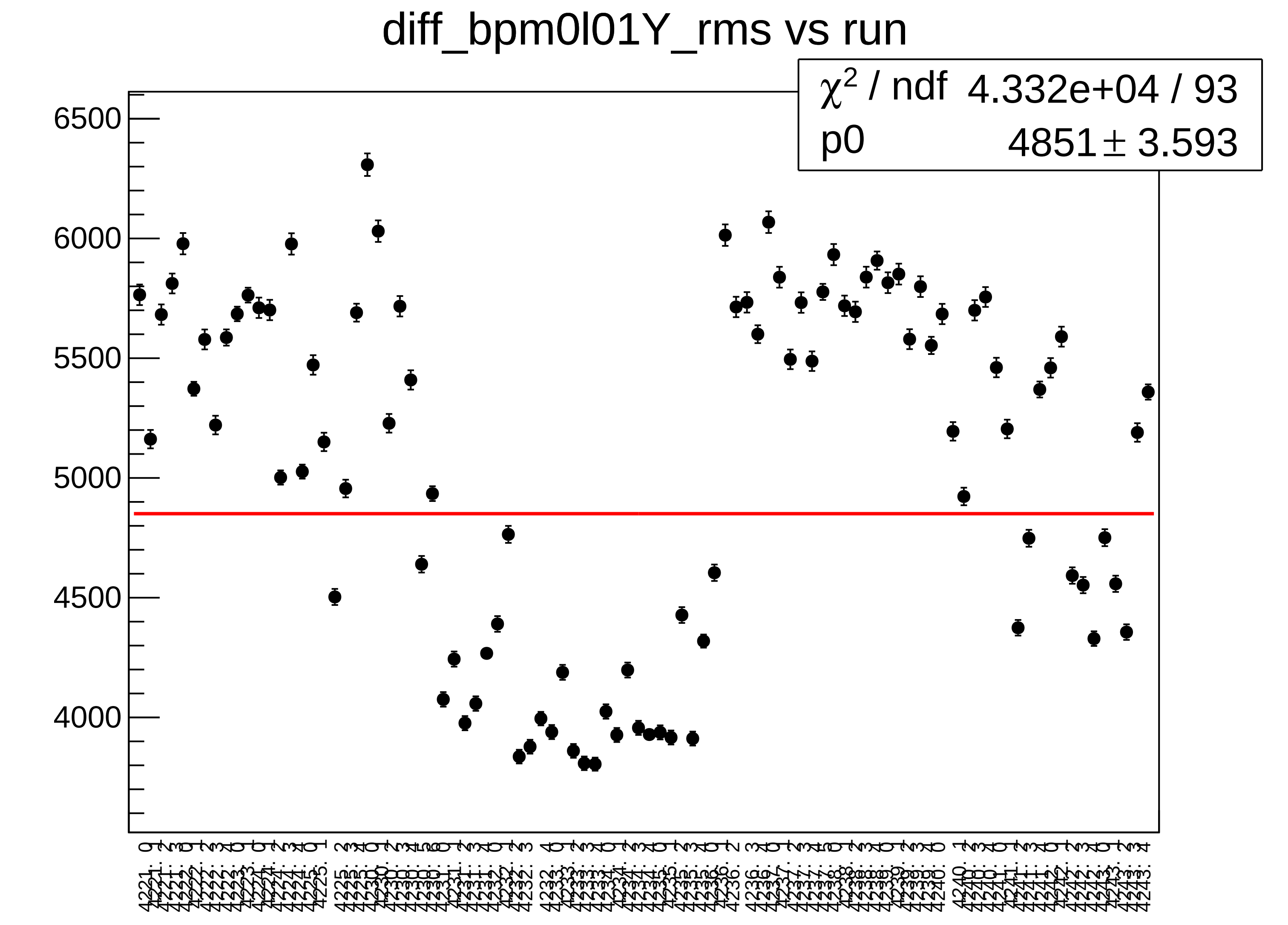
diff_bpm0l01X_mean vs run
χ^2 / ndf 98.74 / 93
p0 −34.51 ± 10.31
pull
Entries 94
Mean −8.58e+04
Std Dev 8.585e+04
pull1D
Entries 94
Mean −3.578e−05
Std Dev 1.025

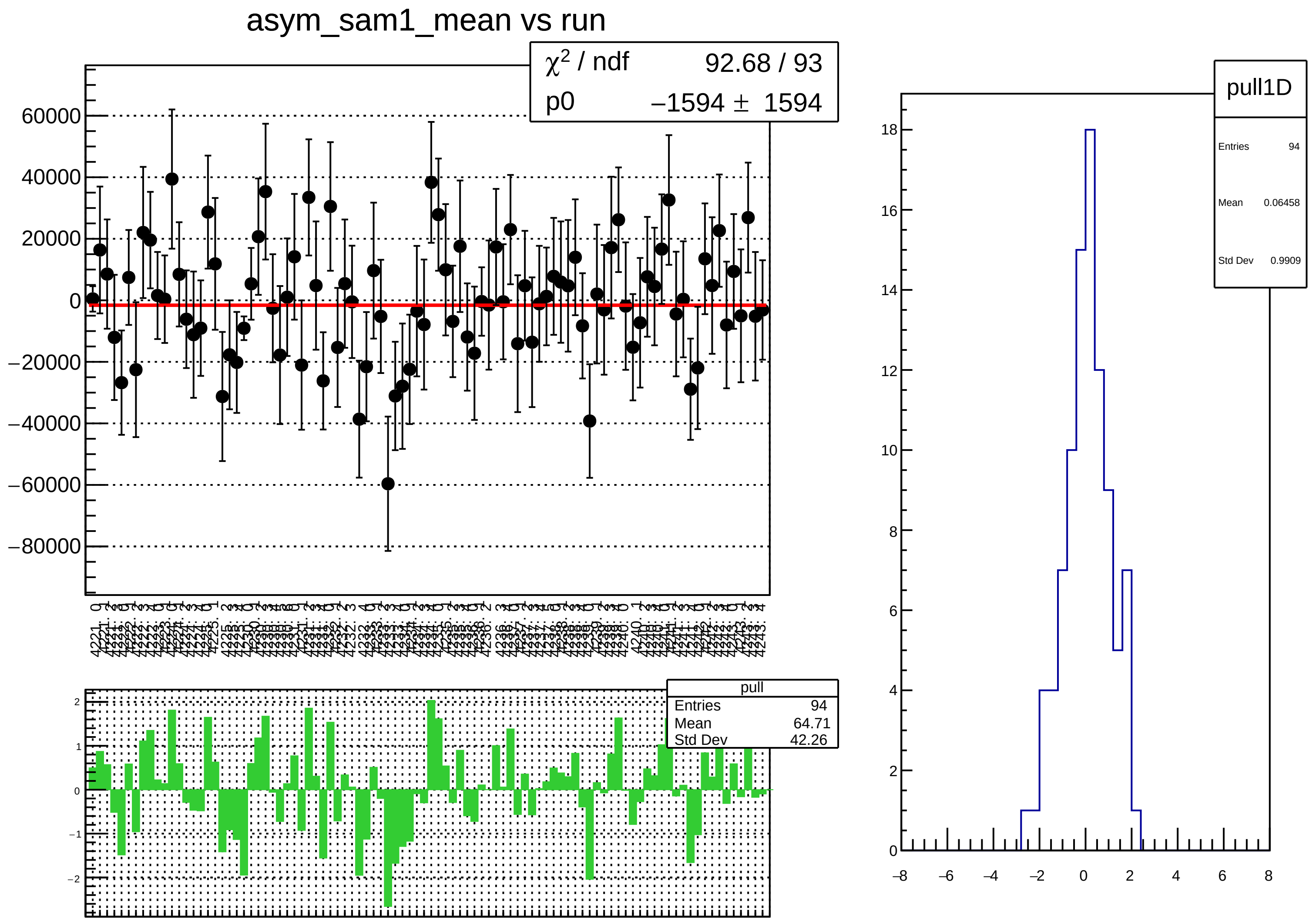


diff_bpm0l01X_rms vs run
χ^2 / ndf 6.774e+04 / 93
p0 9779 ± 7.291
14000
13000
12000
11000
10000
9000
8000
7000

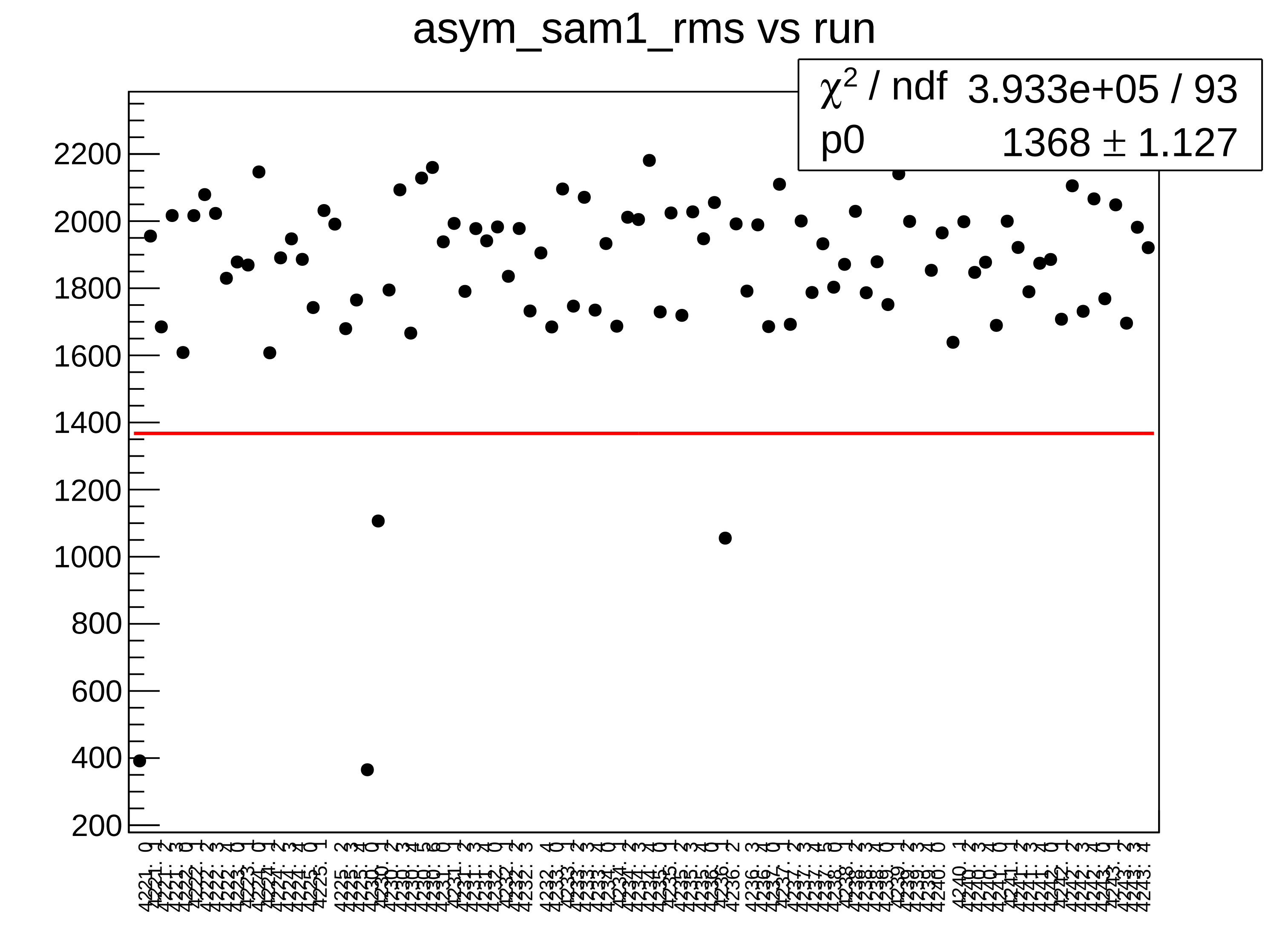


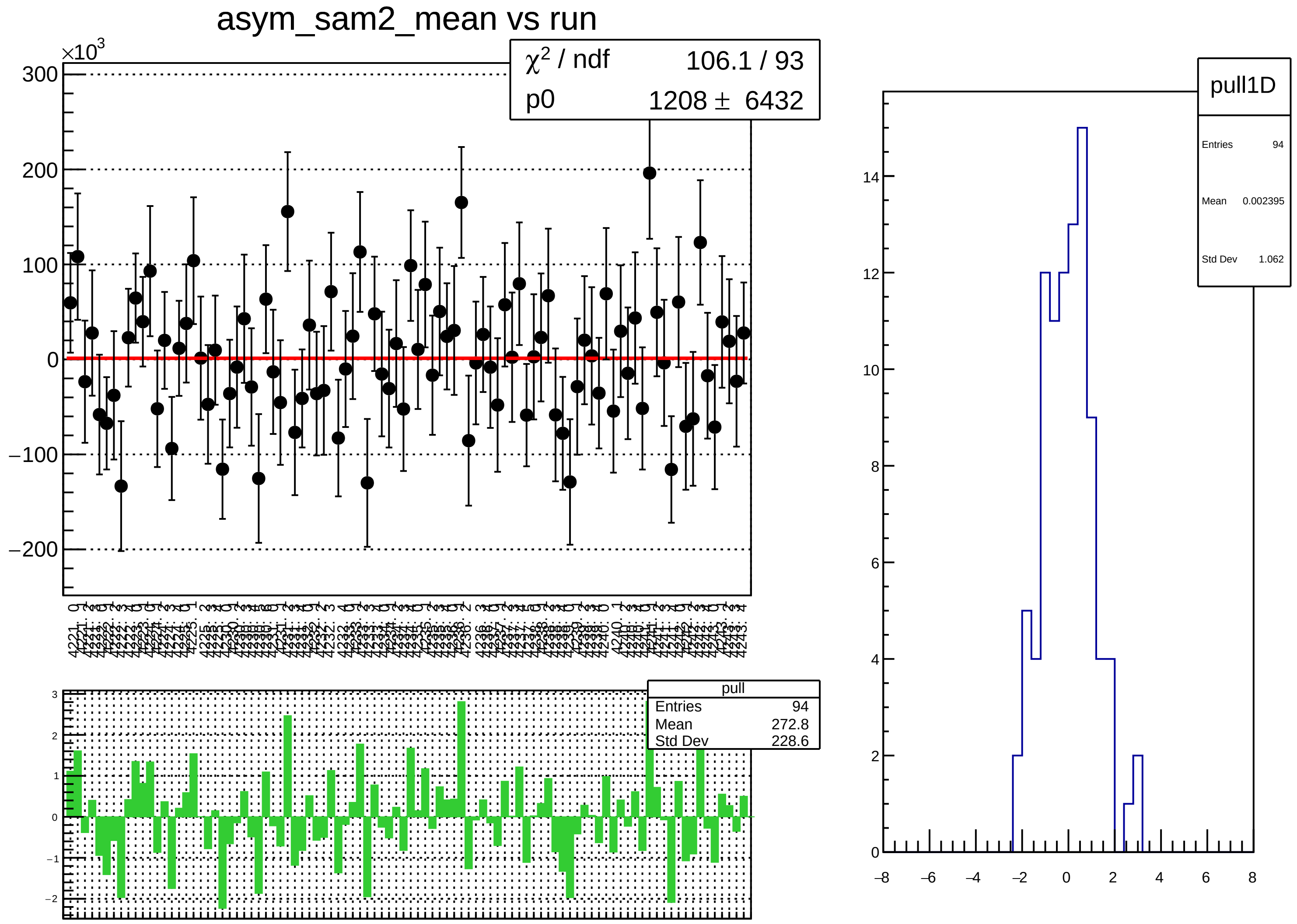
diff_bpm0l01Y_mean vs run
χ^2 / ndf 135.5 / 93
p0 −16.14 ± 5.081
pull
Entries 94
Mean 70.06
Std Dev 63.07
pull1D
Entries 94
Mean 0.01388
Std Dev 1.201


diff_bpm0l01Y_rms vs run
χ^2 / ndf 4.332e+04 / 93
p0 4851 ± 3.593
6500
6000
5500
5000
4500
4000

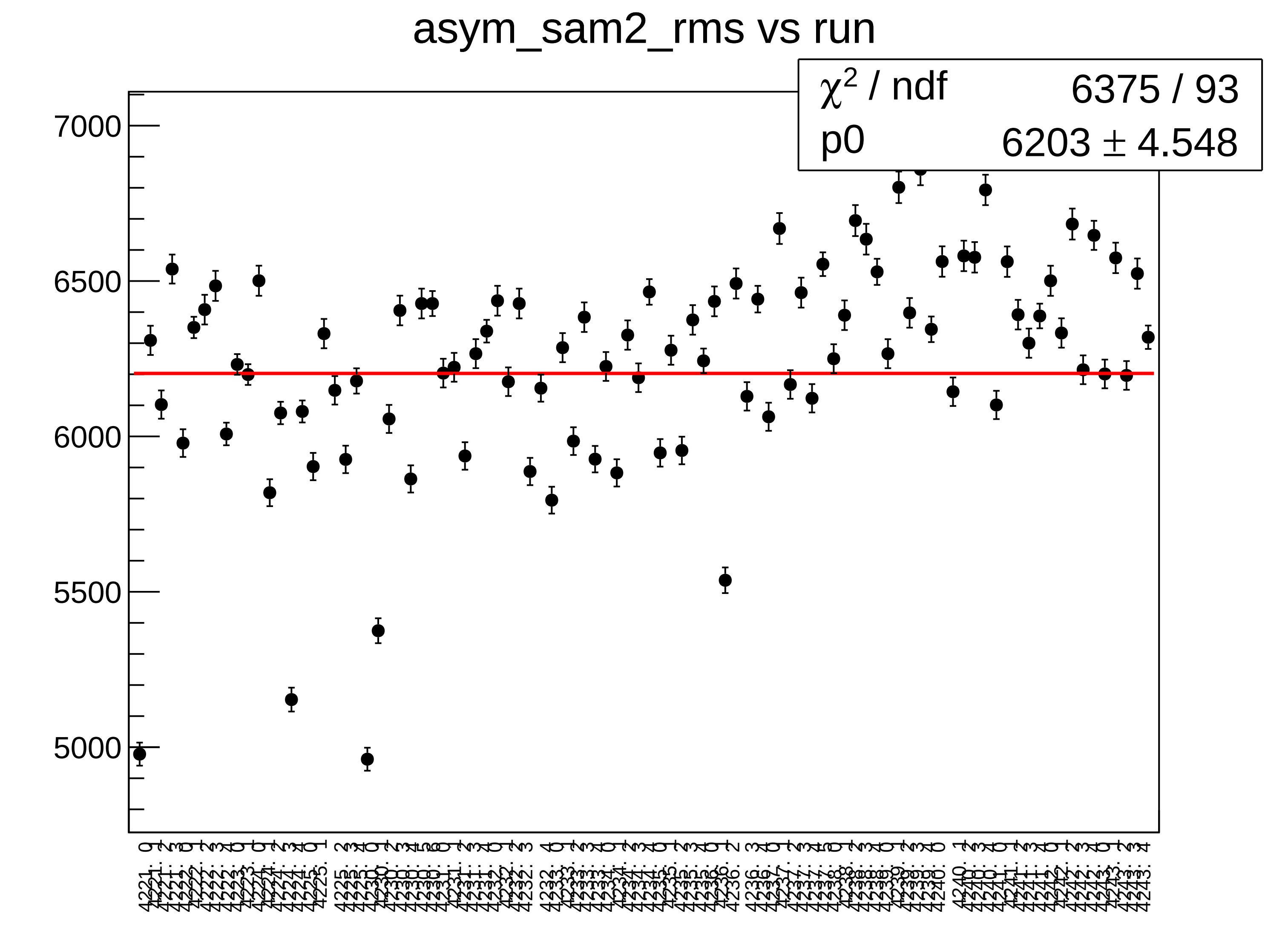


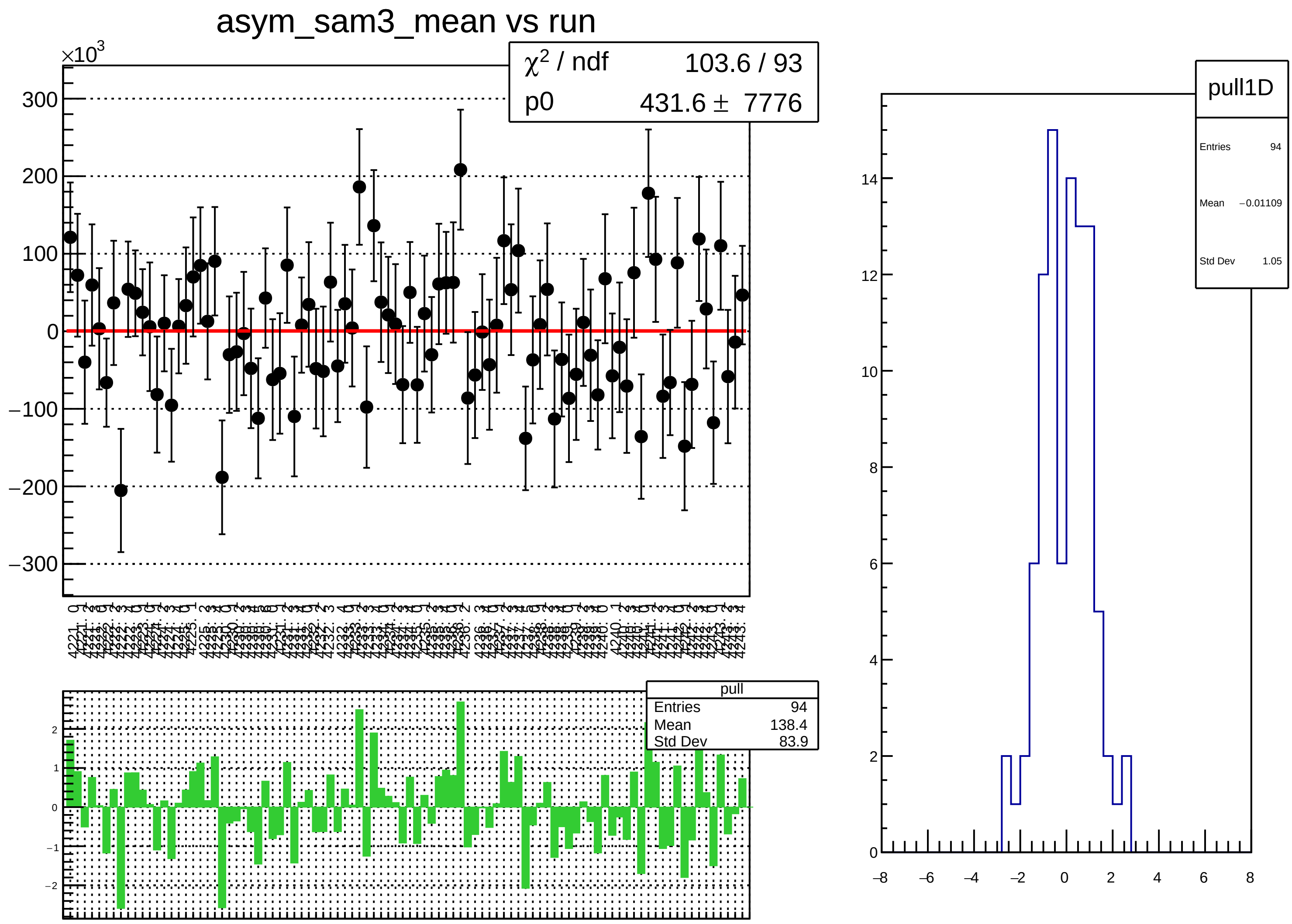
asym_sam1_mean vs run
χ^2 / ndf 92.68 / 93
p0 −1594 ± 1594
pull
Entries 94
Mean 64.71
Std Dev 42.26
pull1D
Entries 94
Mean 0.06458
Std Dev 0.9909


asym_sam1_rms vs run
χ^2 / ndf 3.933e+05 / 93
p0 1368 ± 1.127
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

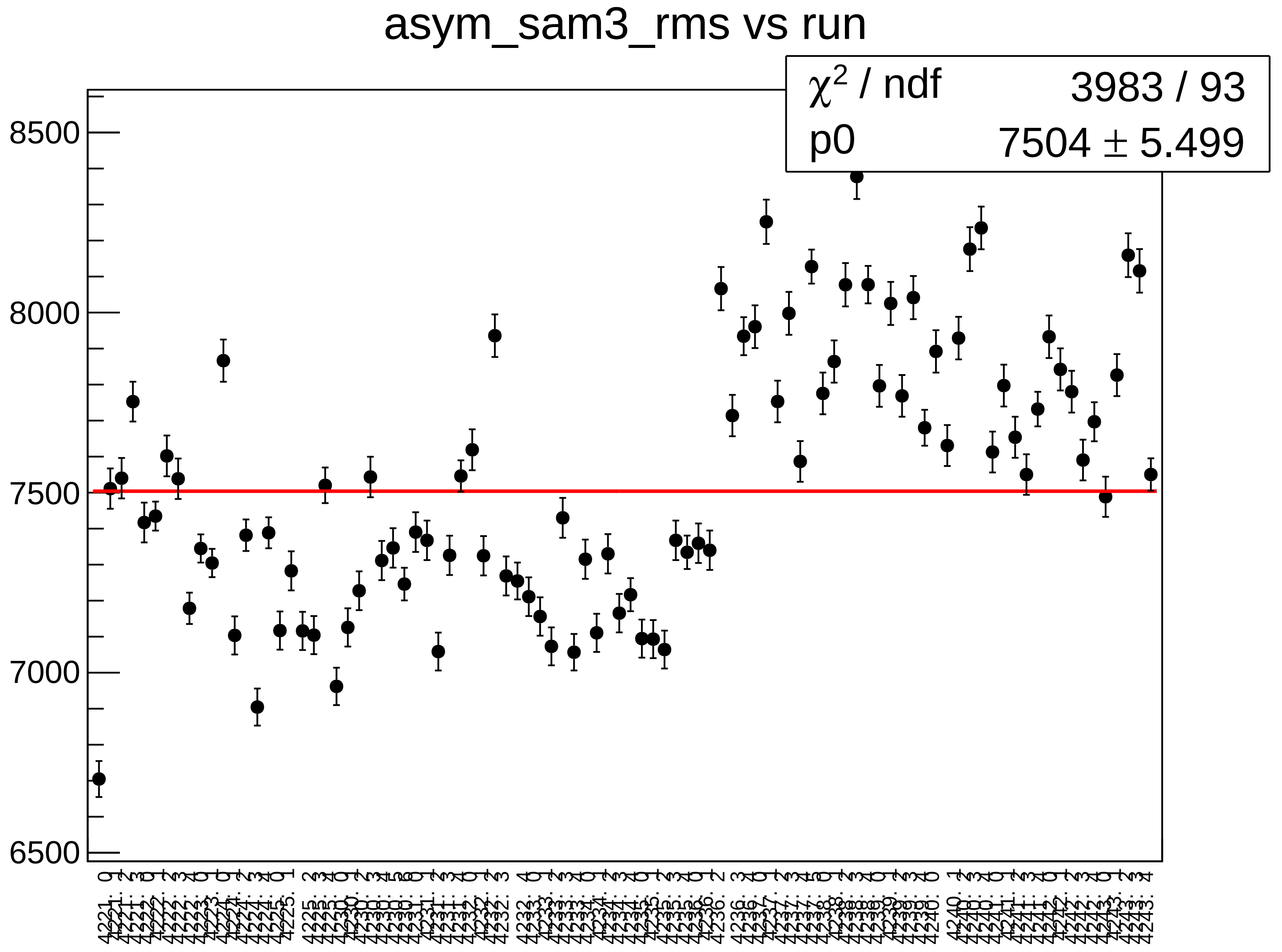


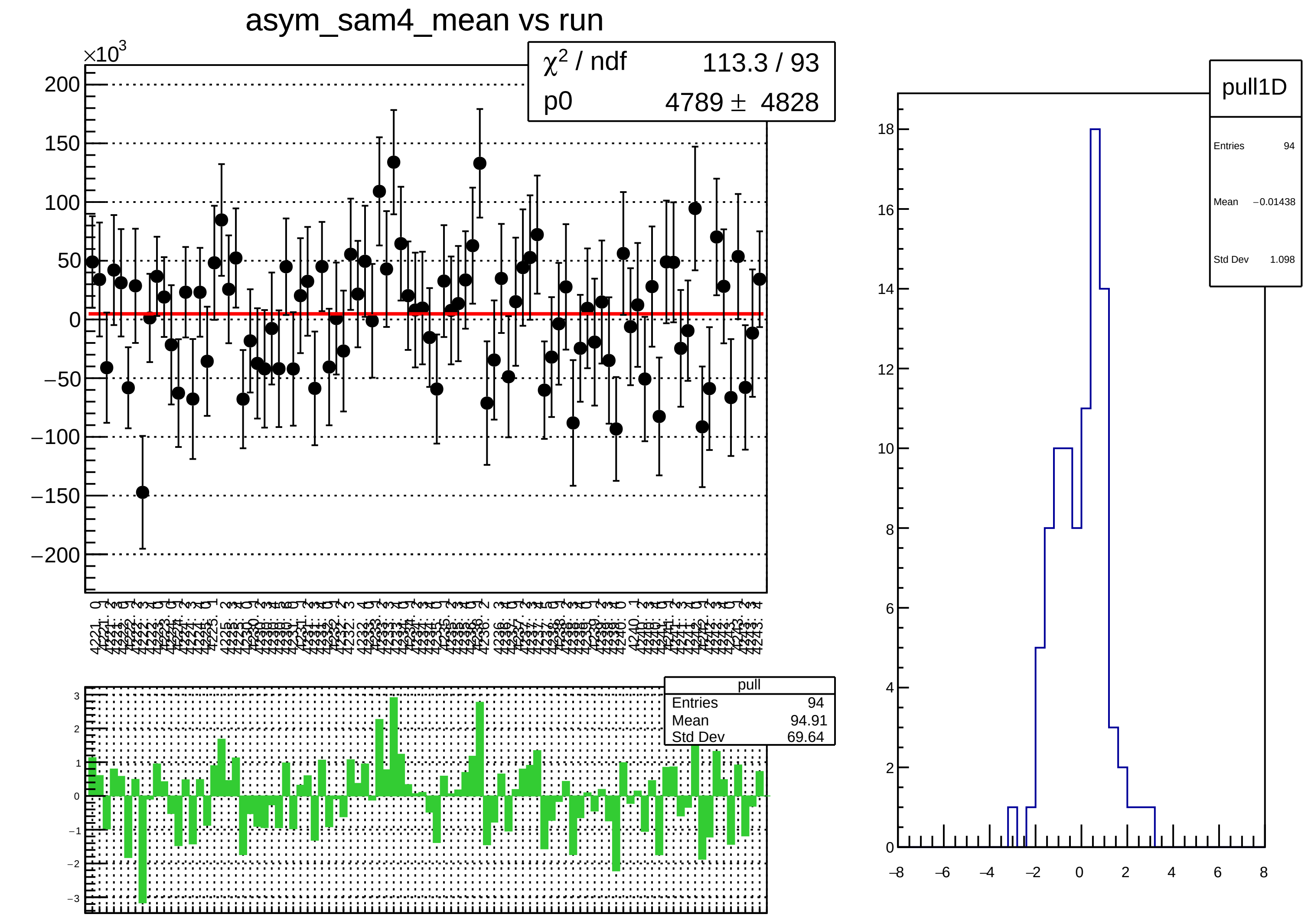
asym_sam2_mean vs run
χ^2 / ndf 106.1 / 93
p0 1208 ± 6432
×10^3
pull
Entries 94
Mean 272.8
Std Dev 228.6
pull1D
Entries 94
Mean 0.002395
Std Dev 1.062


asym_sam2_rms vs run
χ^2 / ndf 6375 / 93
p0 6203 ± 4.548
7000
6500
6000
5500
5000

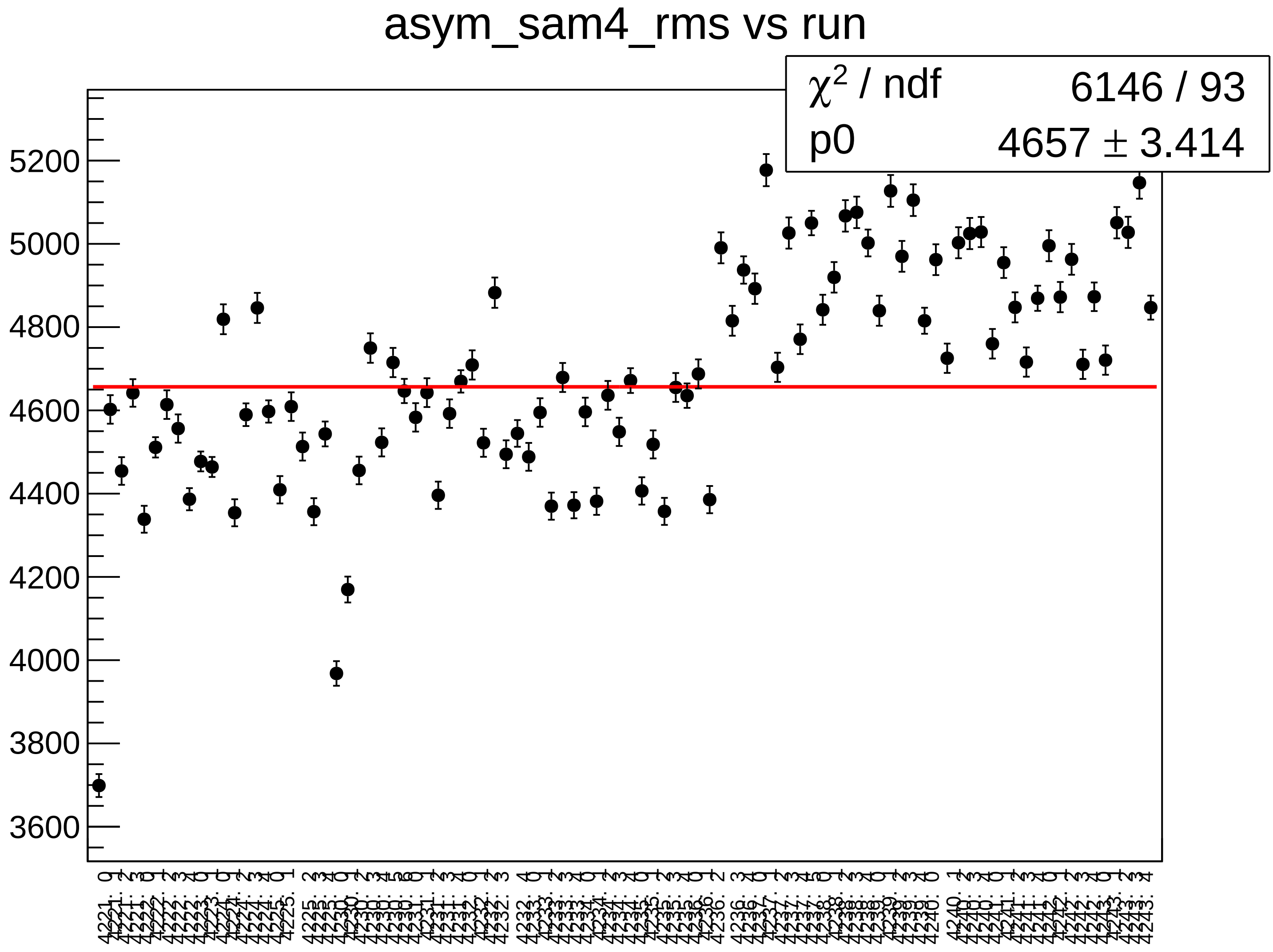


asym_sam3_mean vs run
×10^3
χ^2 / ndf 103.6 / 93
p0 431.6 ± 7776
pull
Entries 94
Mean 138.4
Std Dev 83.9
pull1D
Entries 94
Mean −0.01109
Std Dev 1.05

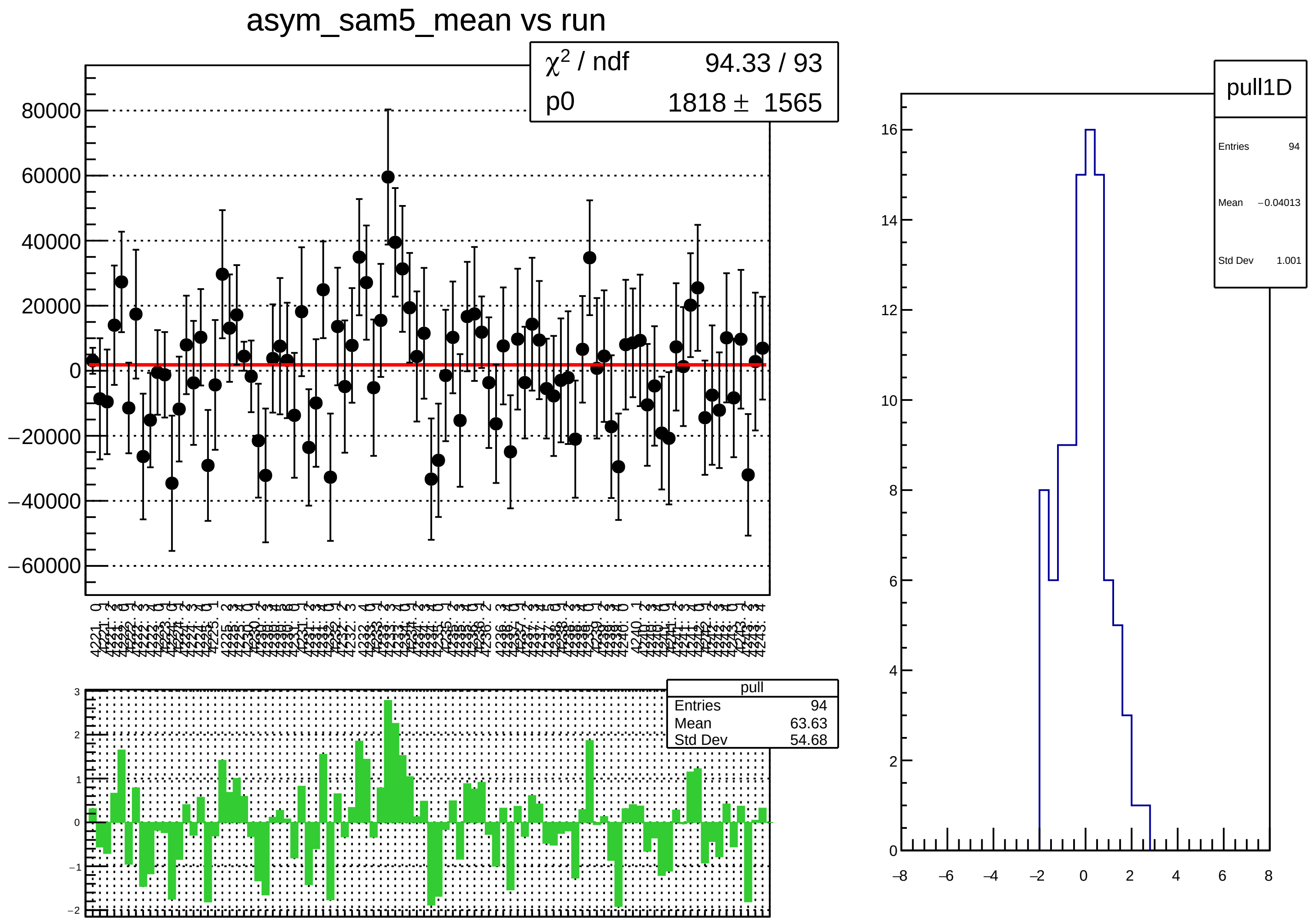

asym_sam3_rms vs run
χ2 / ndf 3983 / 93
p0 7504 ± 5.499
8500
8000
7500
7000
6500



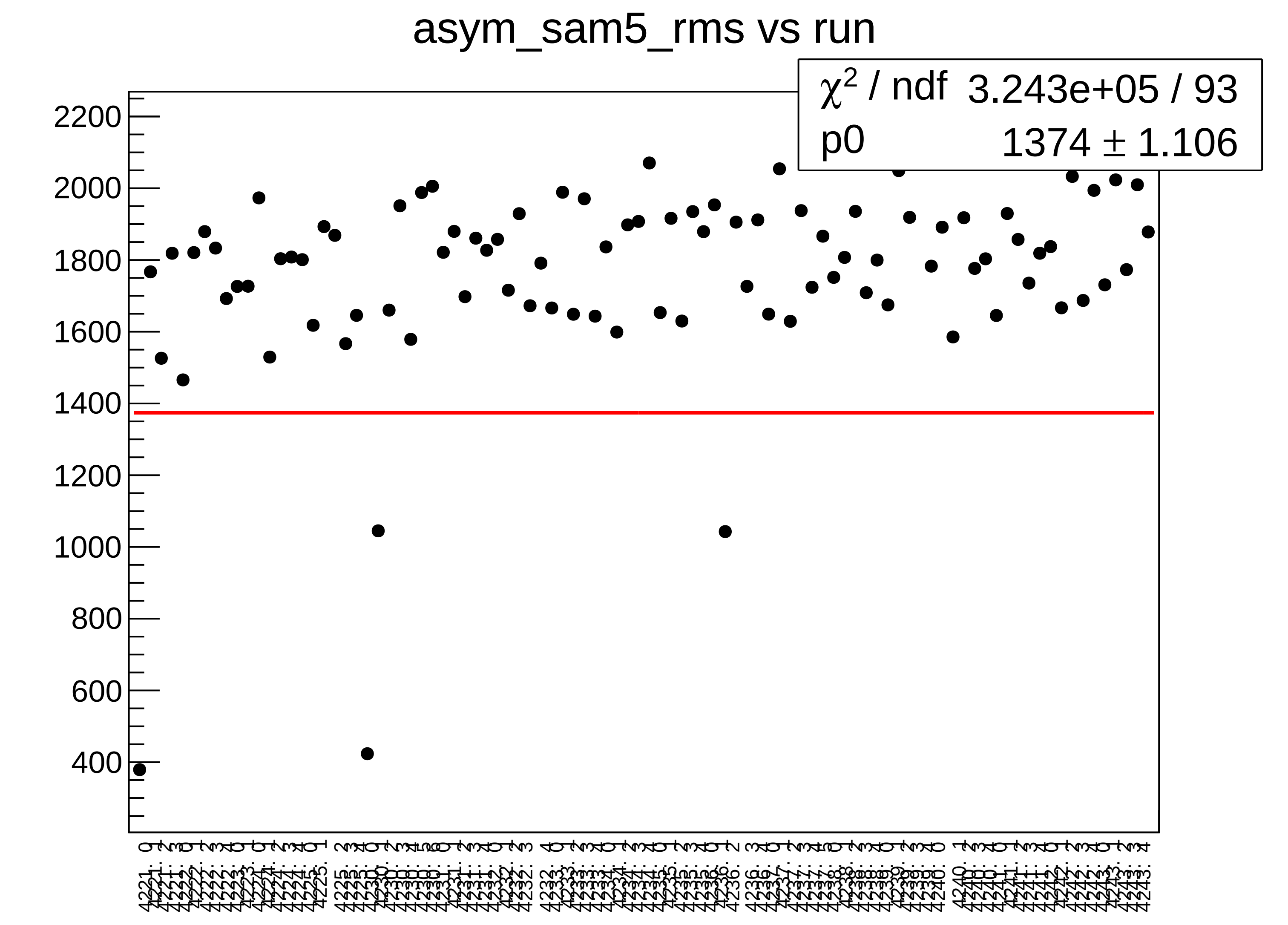
asym_sam4_mean vs run
×10^3
χ2 / ndf 113.3 / 93
p0 4789 ± 4828
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 94.91
Std Dev 69.64
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.01438
Std Dev 1.098
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



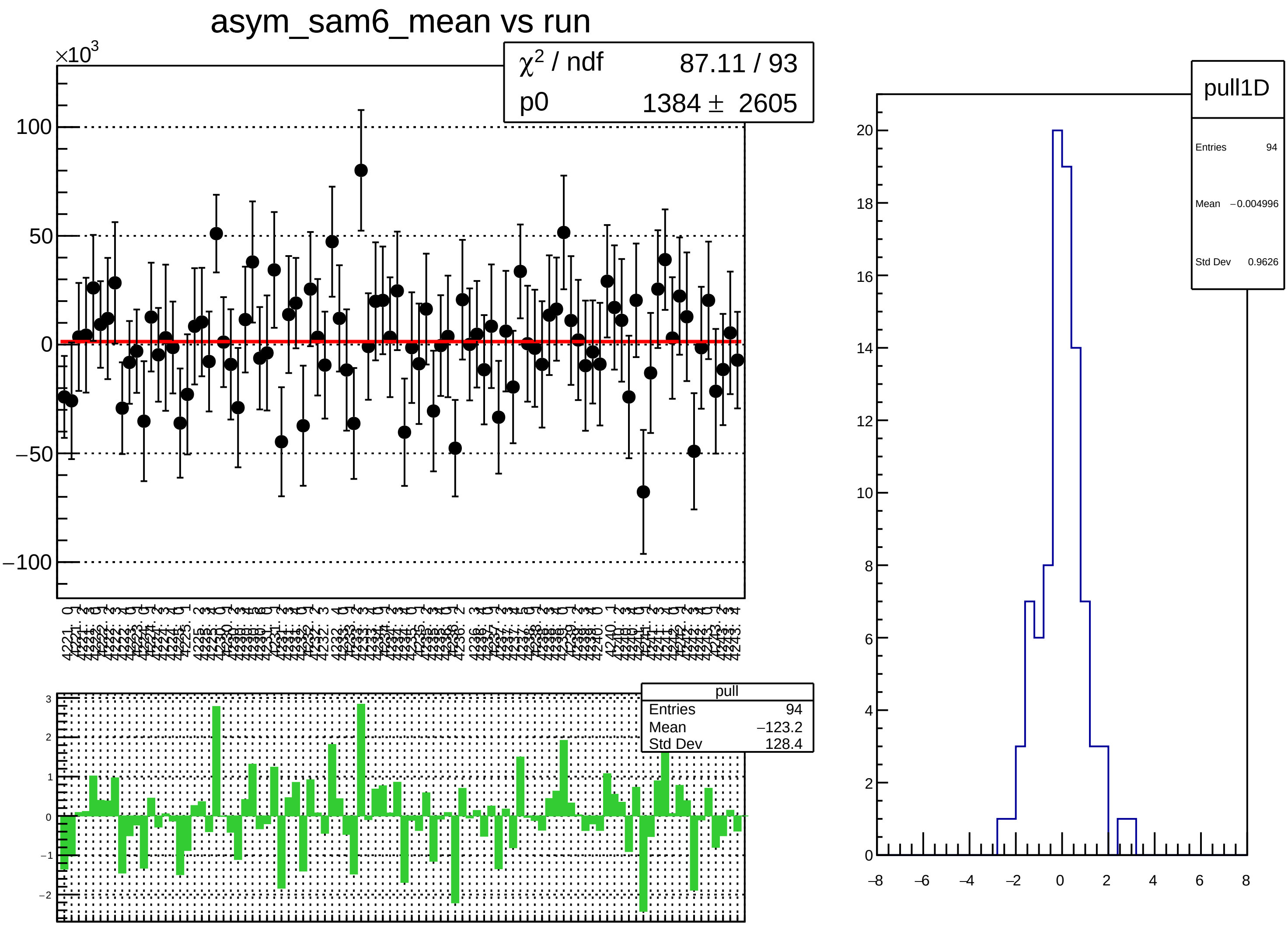
asym_sam4_rms vs run
χ2 / ndf 6146 / 93
p0 4657 ± 3.414
5200
5000
4800
4600
4400
4200
4000
3800
3600



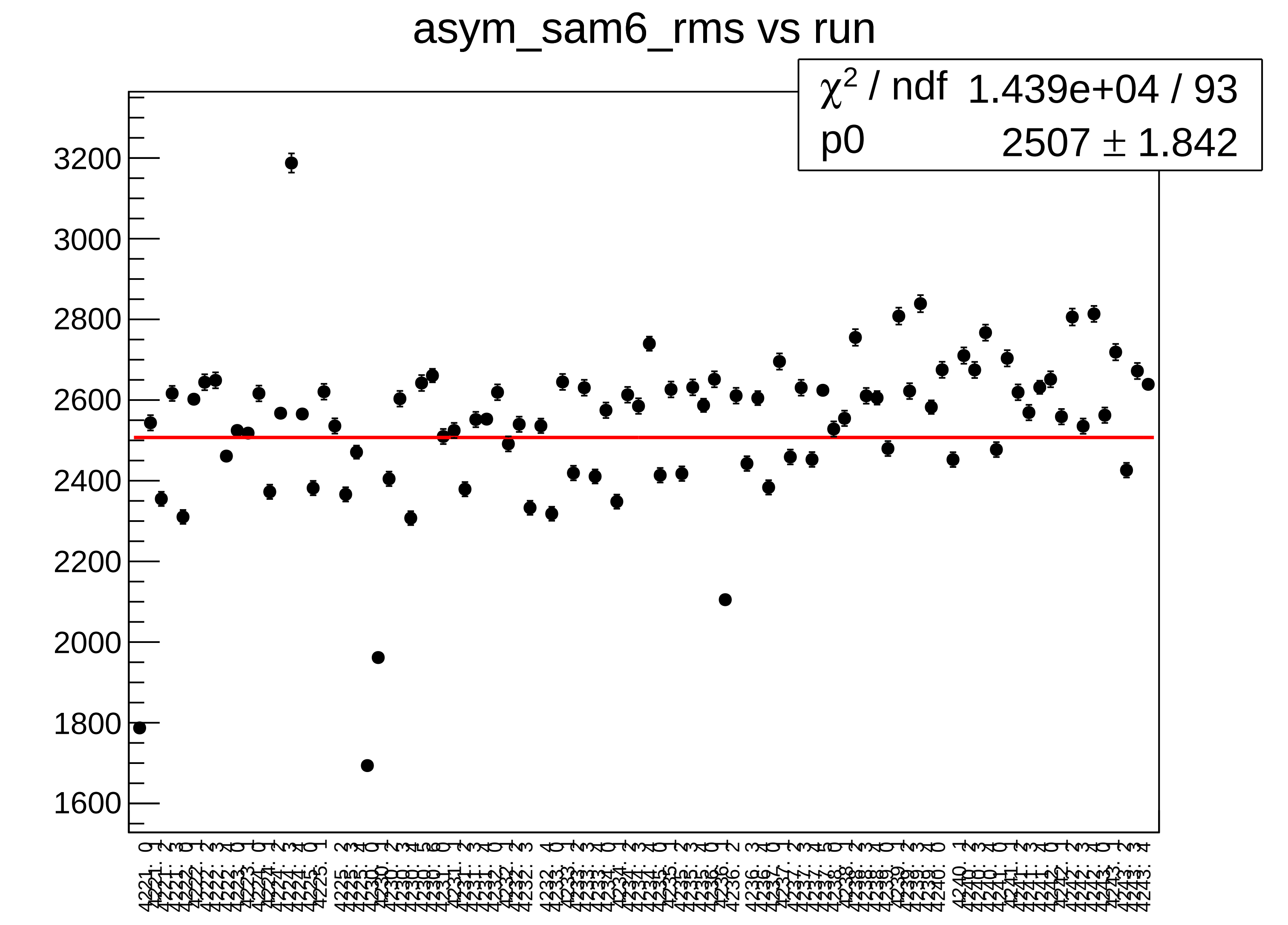
asym_sam5_mean vs run
χ^2 / ndf 94.33 / 93
p0 1818 ± 1565
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 63.63
Std Dev 54.68
pull1D
Entries 94
Mean −0.04013
Std Dev 1.001



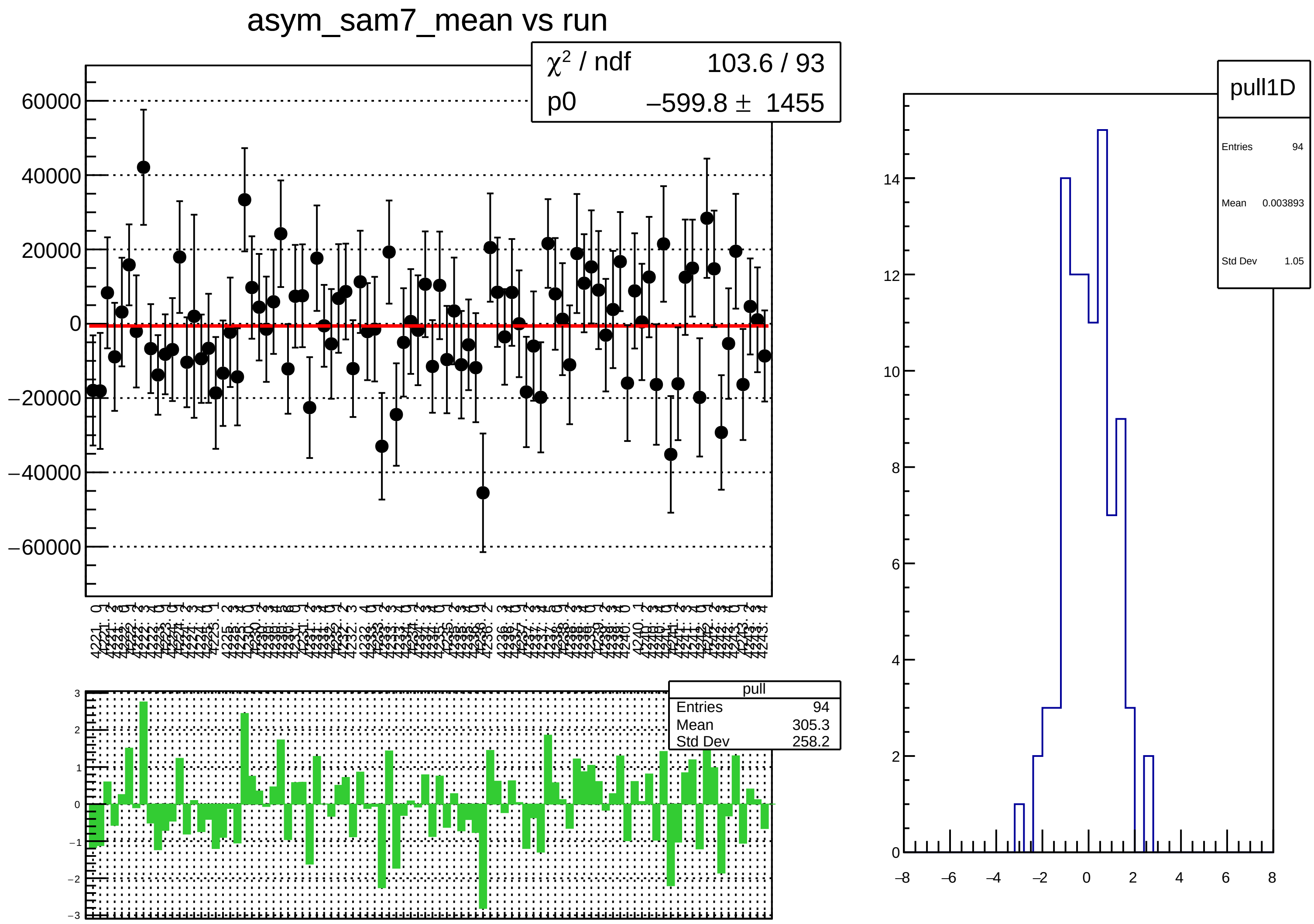
asym_sam5_rms vs run
χ2 / ndf 3.243e+05 / 93
p0 1374 ± 1.106
2200
2000
1800
1600
1400
1200
1000
800
600
400



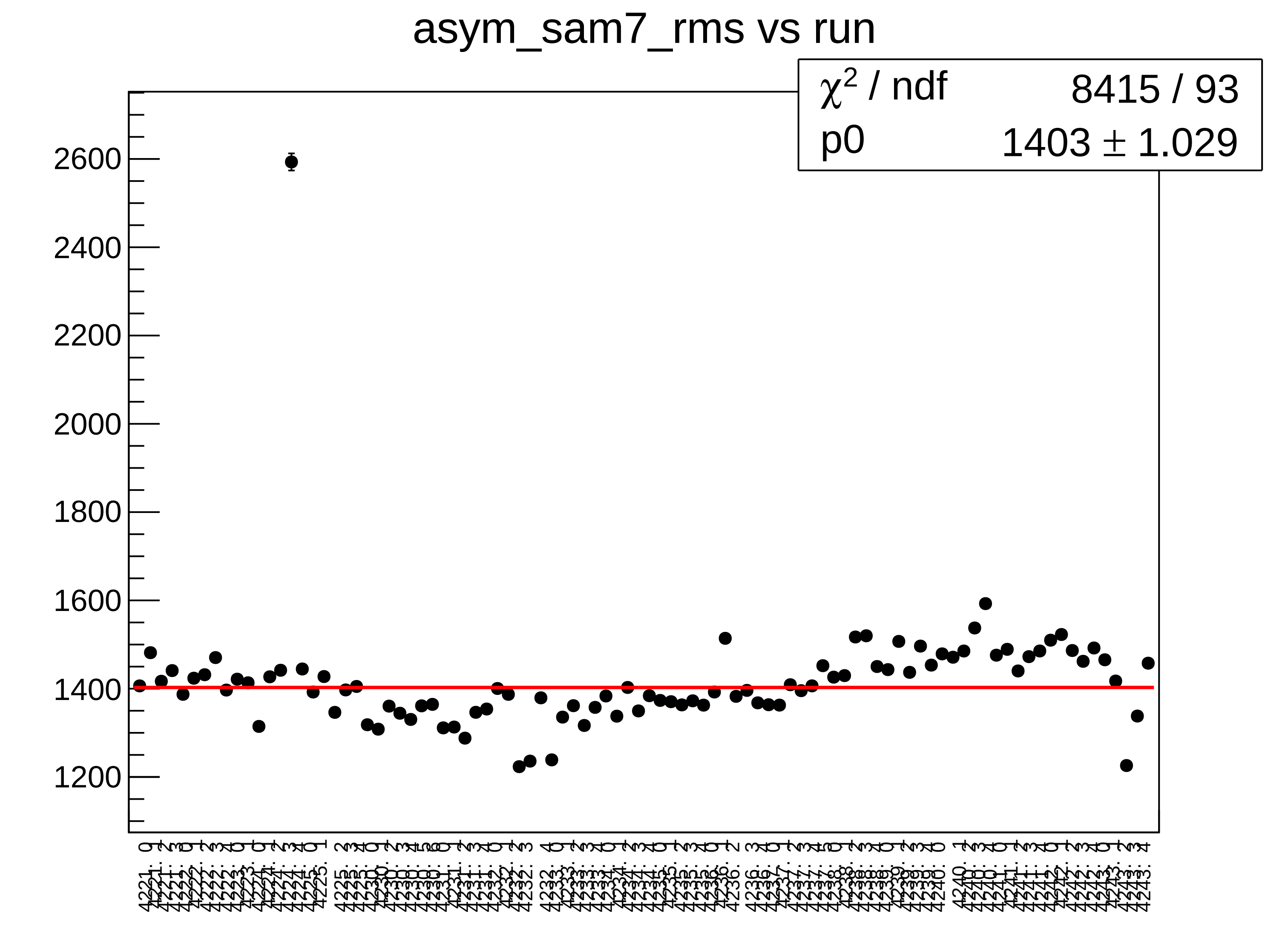
asym_sam6_mean vs run
χ^2 / ndf 87.11 / 93
p0 1384 ± 2605
pull
Entries 94
Mean −123.2
Std Dev 128.4
pull1D
Entries 94
Mean −0.004996
Std Dev 0.9626



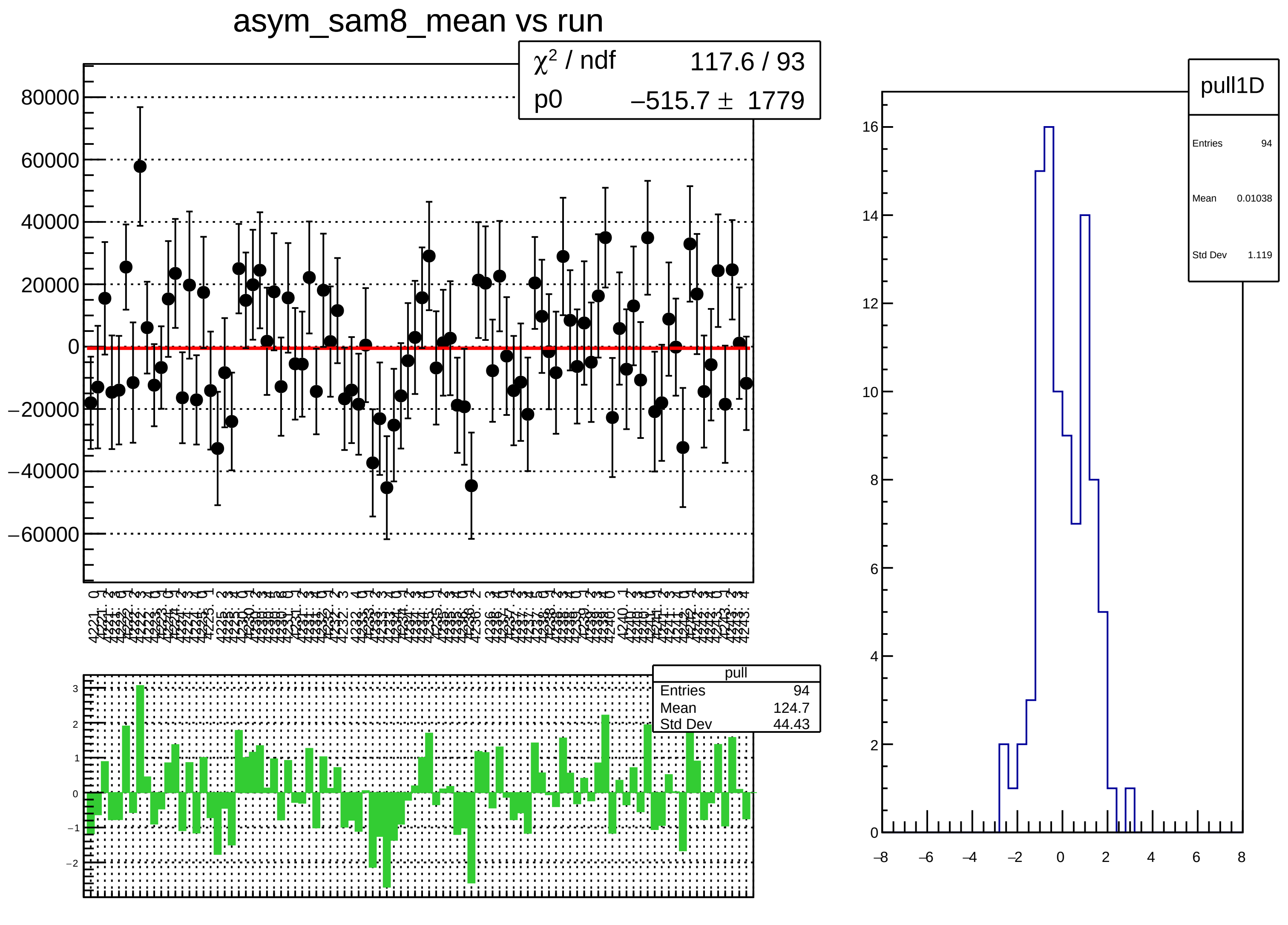
asym_sam6_rms vs run
χ2 / ndf 1.439e+04 / 93
p0 2507 ± 1.842
3200
3000
2800
2600
2400
2200
2000
1800
1600



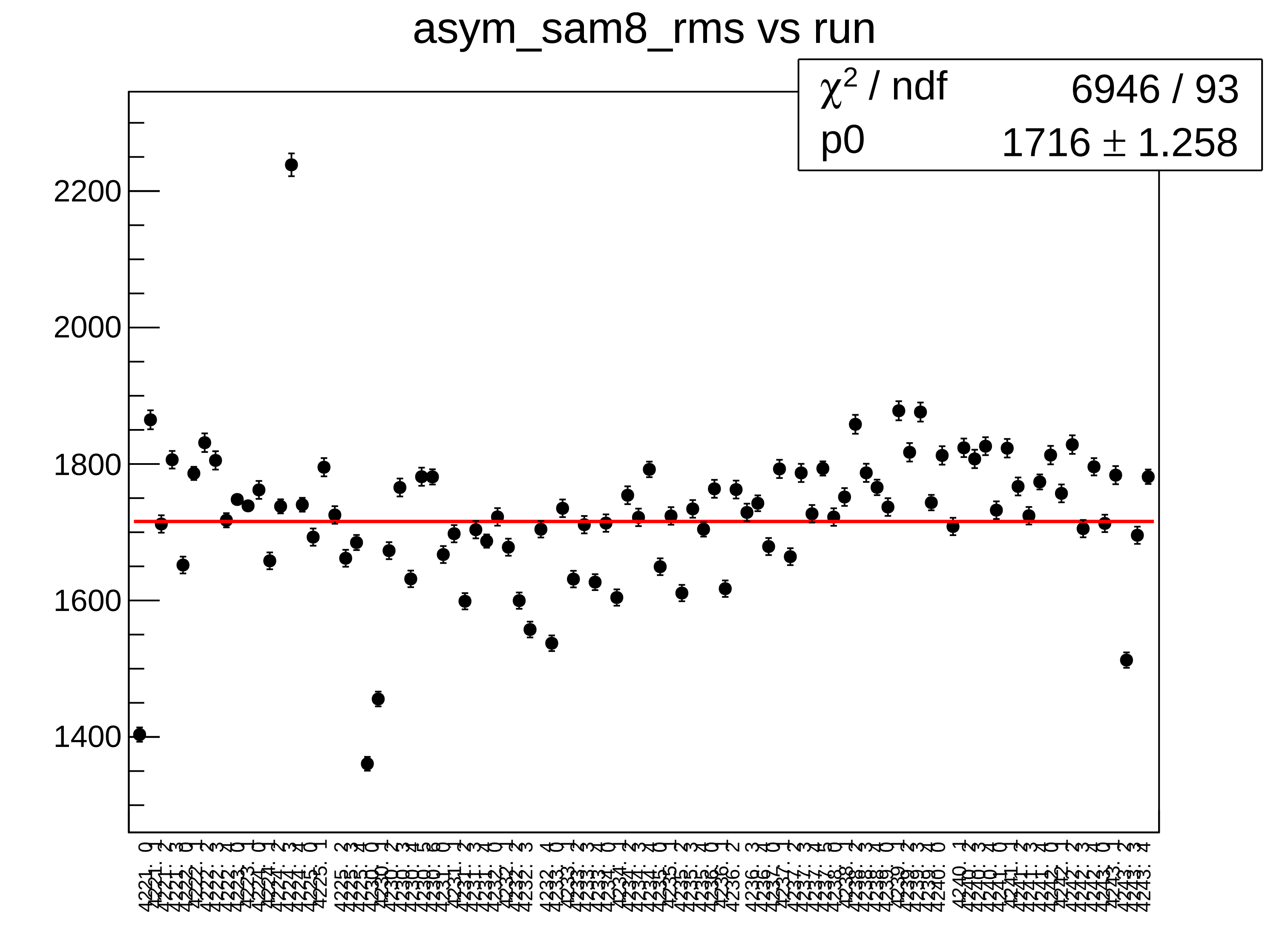
asym_sam7_mean vs run
χ^2 / ndf 103.6 / 93
p0 −599.8 ± 1455
pull
Entries 94
Mean 305.3
Std Dev 258.2
pull1D
Entries 94
Mean 0.003893
Std Dev 1.05

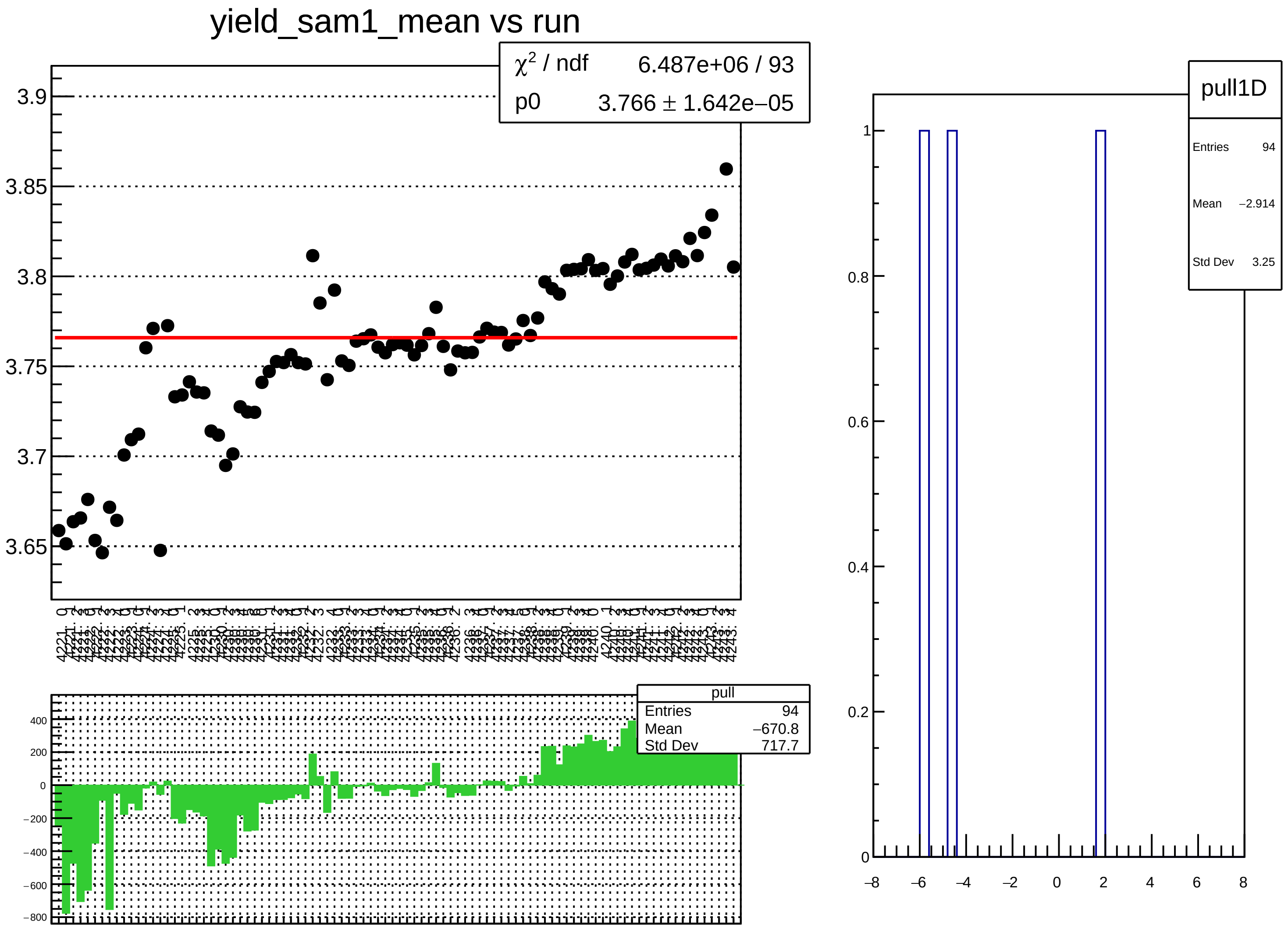


asym_sam7_rms vs run
χ2 / ndf 8415 / 93
p0 1403 ± 1.029
2600
2400
2200
2000
1800
1600
1400
1200

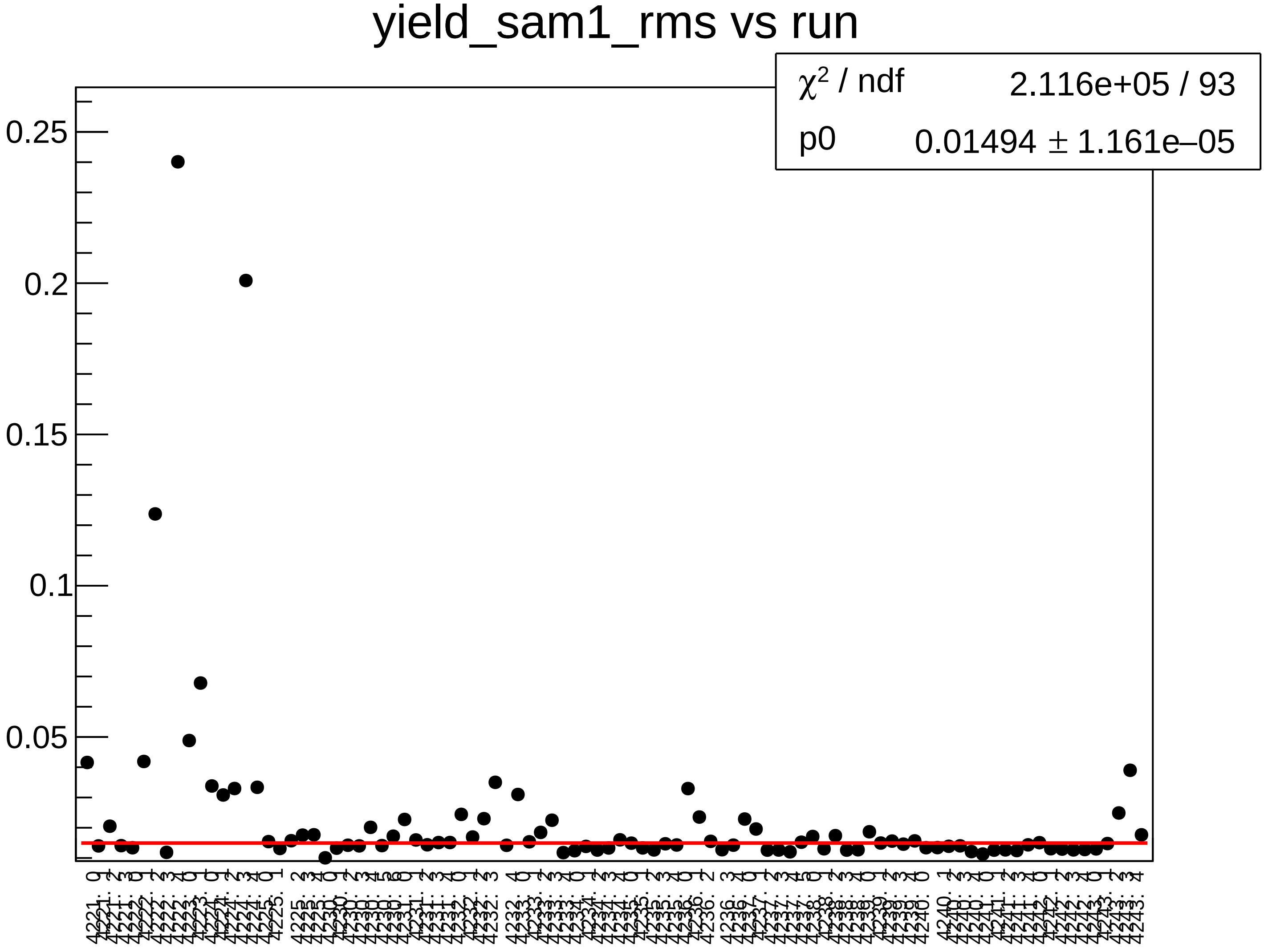


asym_sam8_mean vs run
χ^2 / ndf 117.6 / 93
p0 −515.7 ± 1779
pull
Entries 94
Mean 124.7
Std Dev 44.43
pull1D
Entries 94
Mean 0.01038
Std Dev 1.119

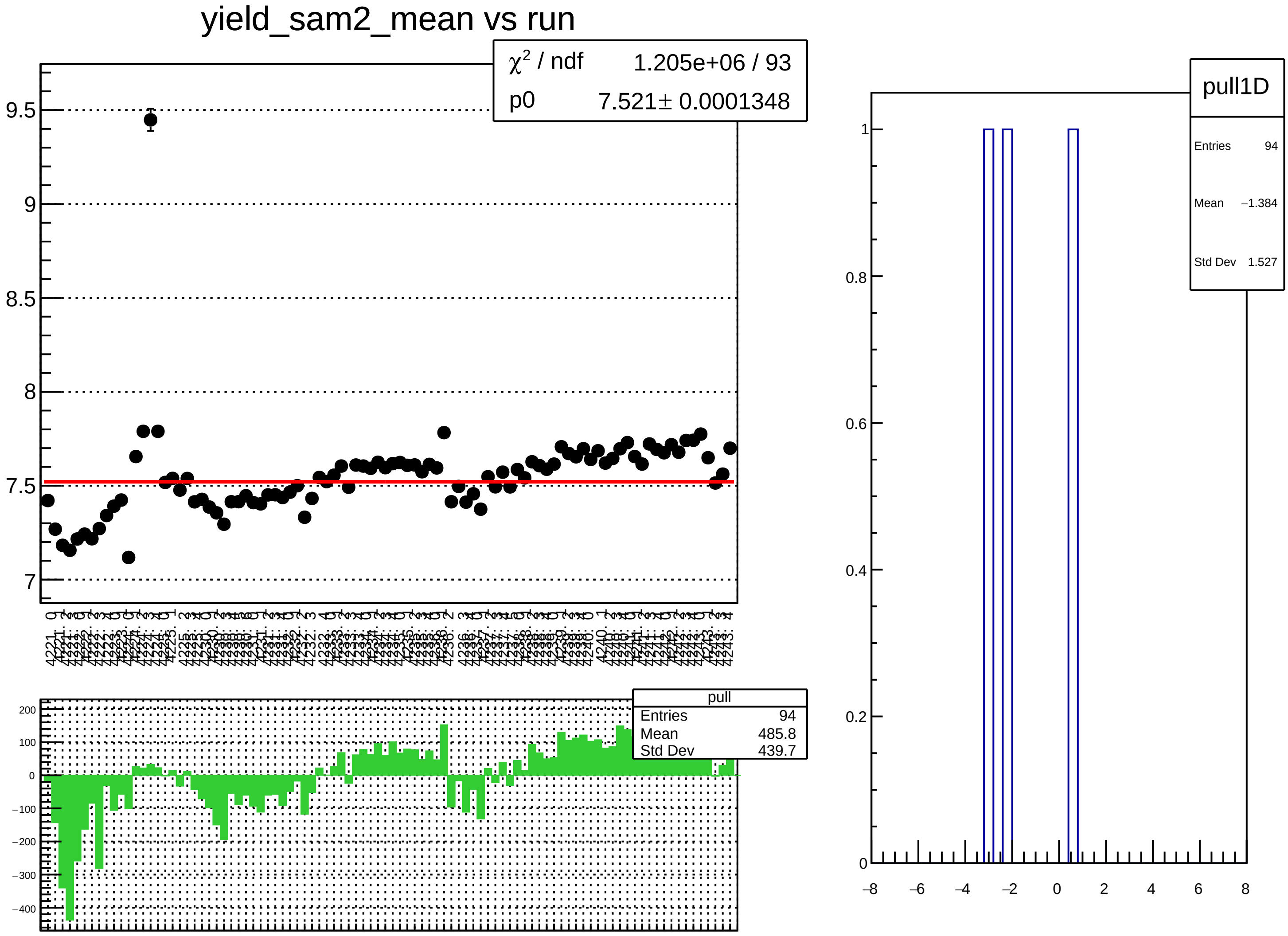

asym_sam8_rms vs run
χ2 / ndf 6946 / 93
p0 1716 ± 1.258
2200
2000
1800
1600
1400

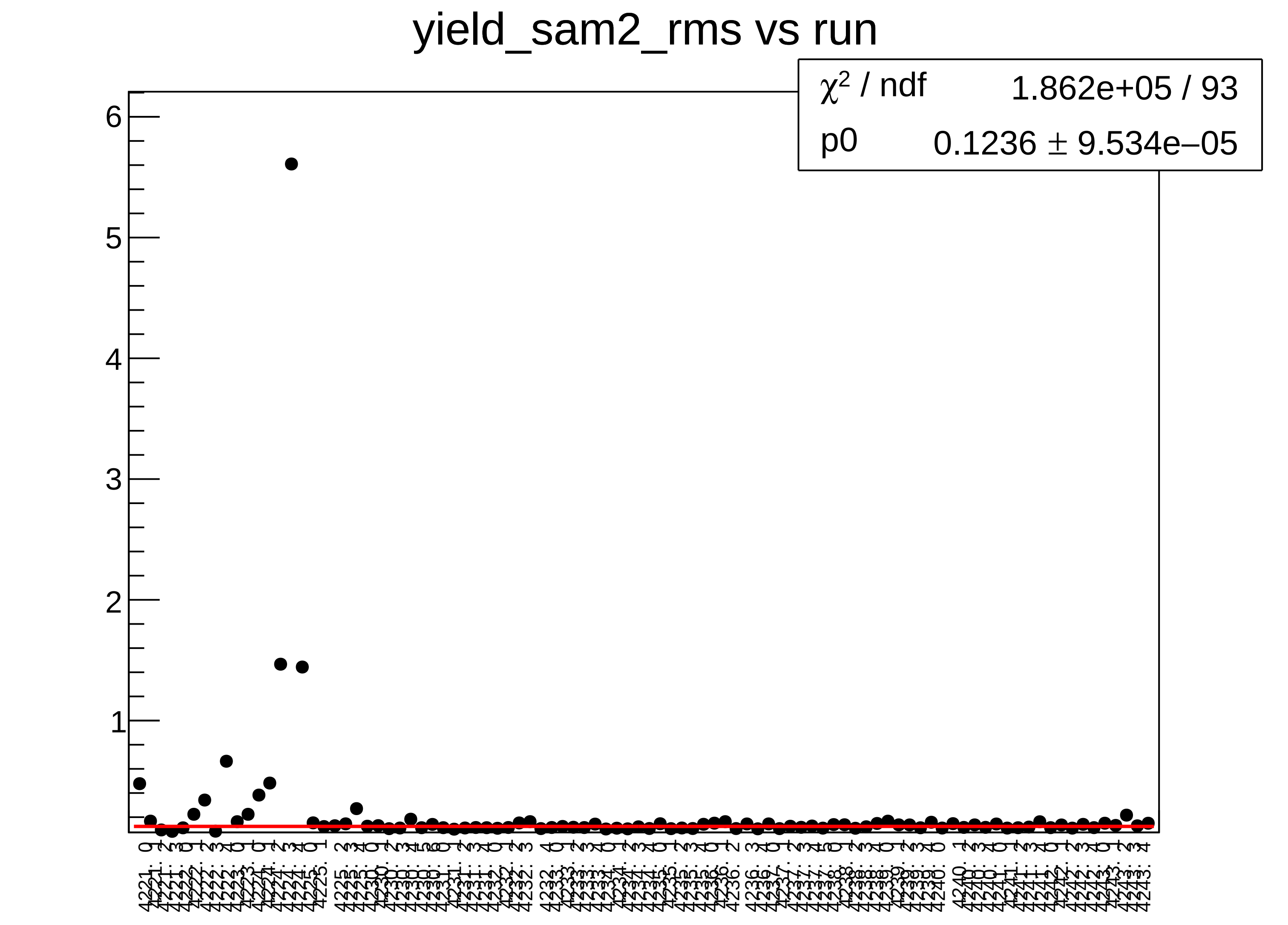


yield_sam1_mean vs run
χ2 / ndf 6.487e+06 / 93
p0 3.766 ± 1.642e−05
3.9
3.85
3.8
3.75
3.7
3.65
pull
Entries 94
Mean −670.8
Std Dev 717.7
400
200
0
−200
−400
−600
−800
pull1D
Entries 94
Mean −2.914
Std Dev 3.25
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

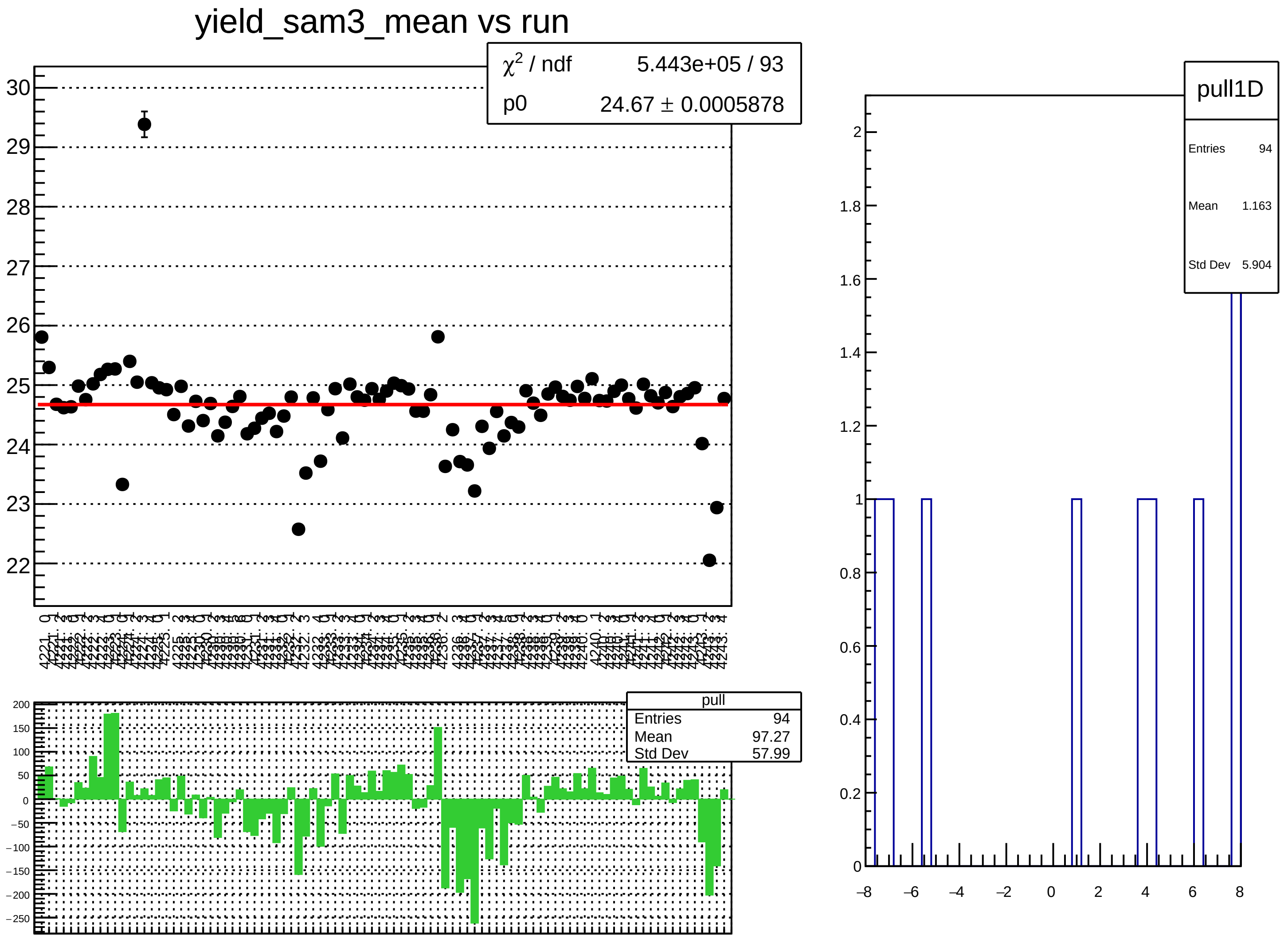


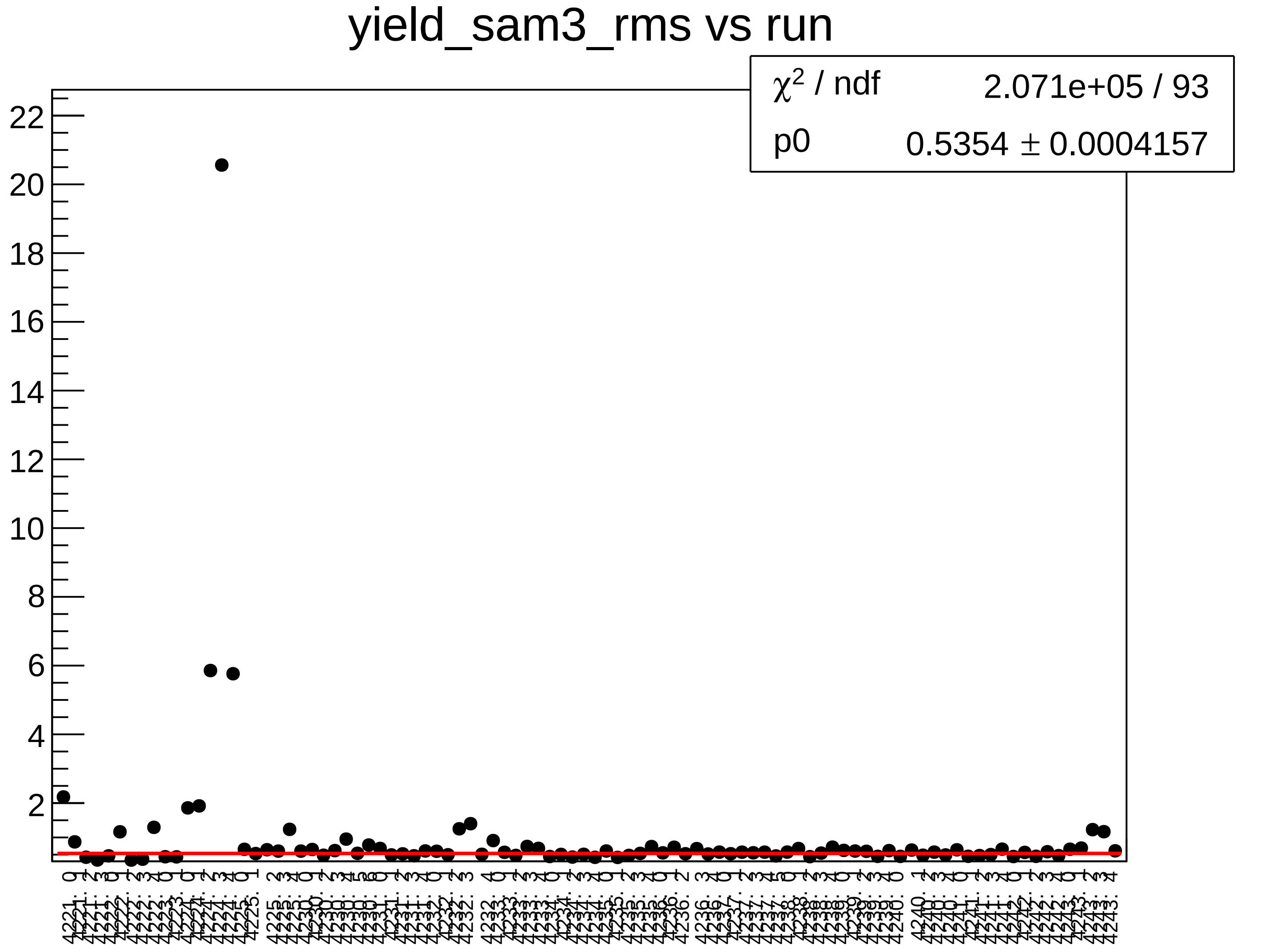
yield_sam1_rms vs run
χ2 / ndf 2.116e+05 / 93
p0 0.01494 ± 1.161e−05
0.25
0.2
0.15
0.1
0.05


yield_sam2_mean vs run
χ^2 / ndf 1.205e+06 / 93
p0 7.521± 0.0001348
9.5
9
8.5
8
7.5
7
pull
Entries 94
Mean 485.8
Std Dev 439.7
200
100
0
−100
−200
−300
−400
pull1D
Entries 94
Mean −1.384
Std Dev 1.527
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

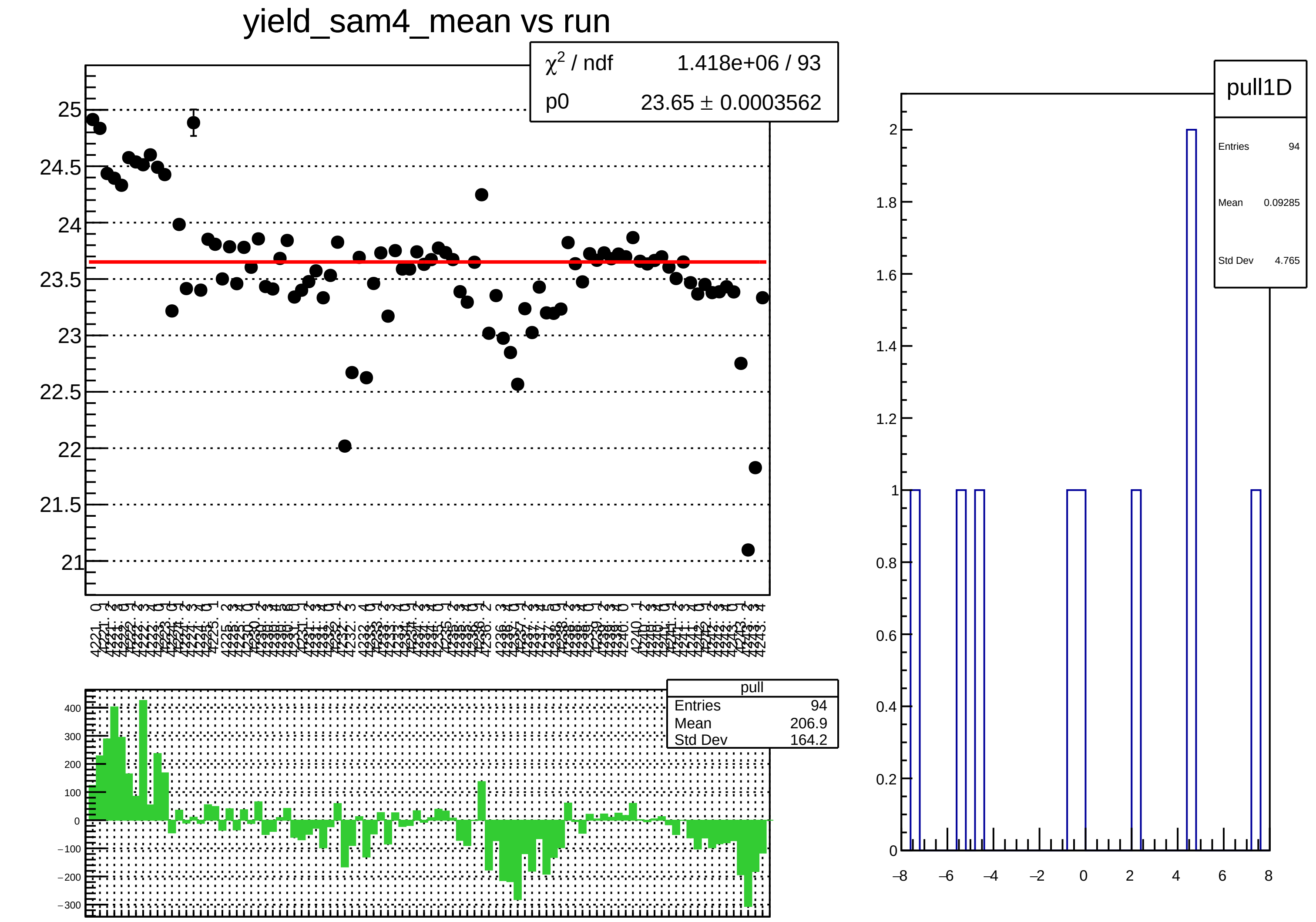


yield_sam2_rms vs run
χ2 / ndf 1.862e+05 / 93
p0 0.1236 ± 9.534e−05
6
5
4
3
2
1

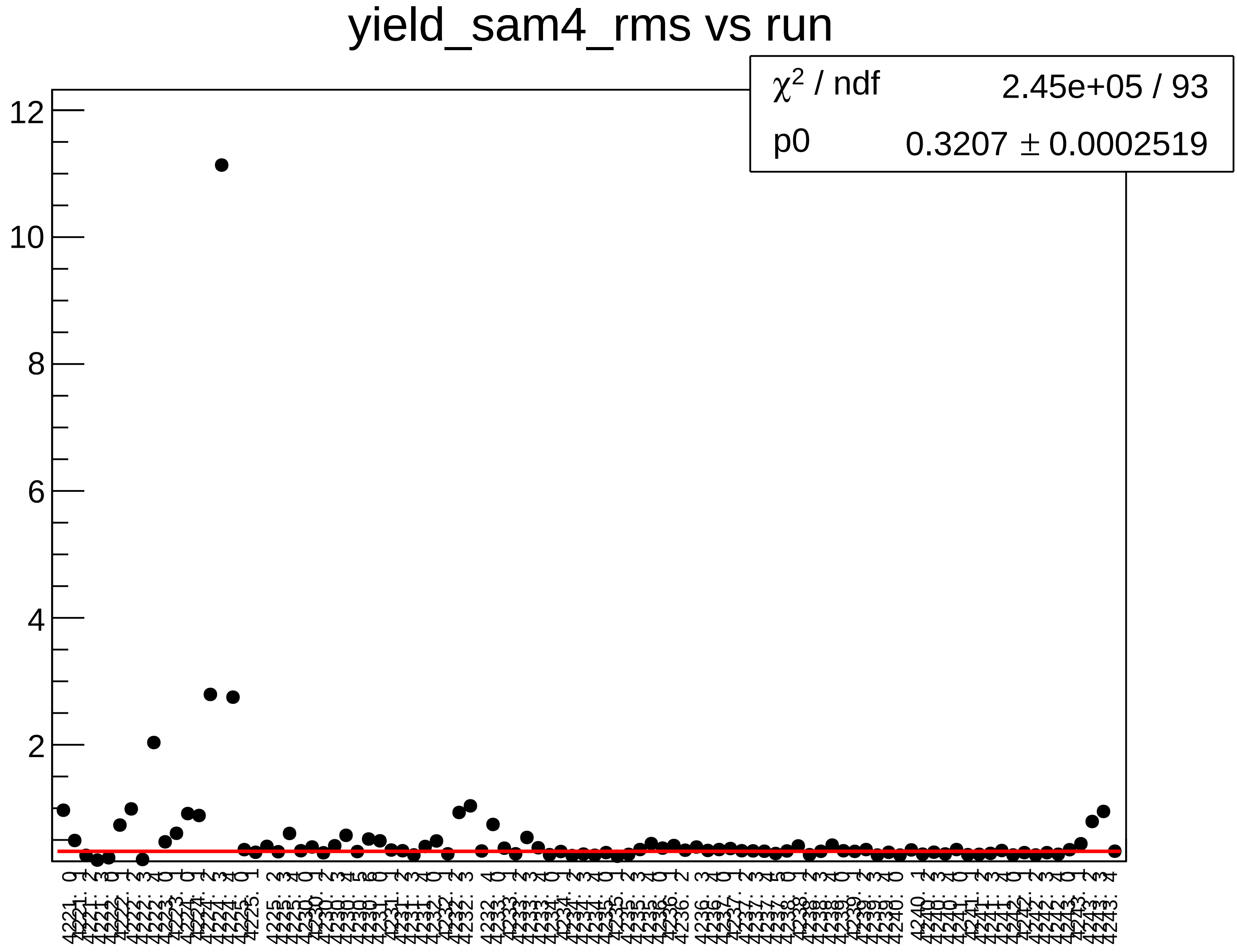

yield_sam3_mean vs run
χ² / ndf 5.443e+05 / 93
p0 24.67 ± 0.0005878
pull
Entries 94
Mean 97.27
Std Dev 57.99
pull1D
Entries 94
Mean 1.163
Std Dev 5.904



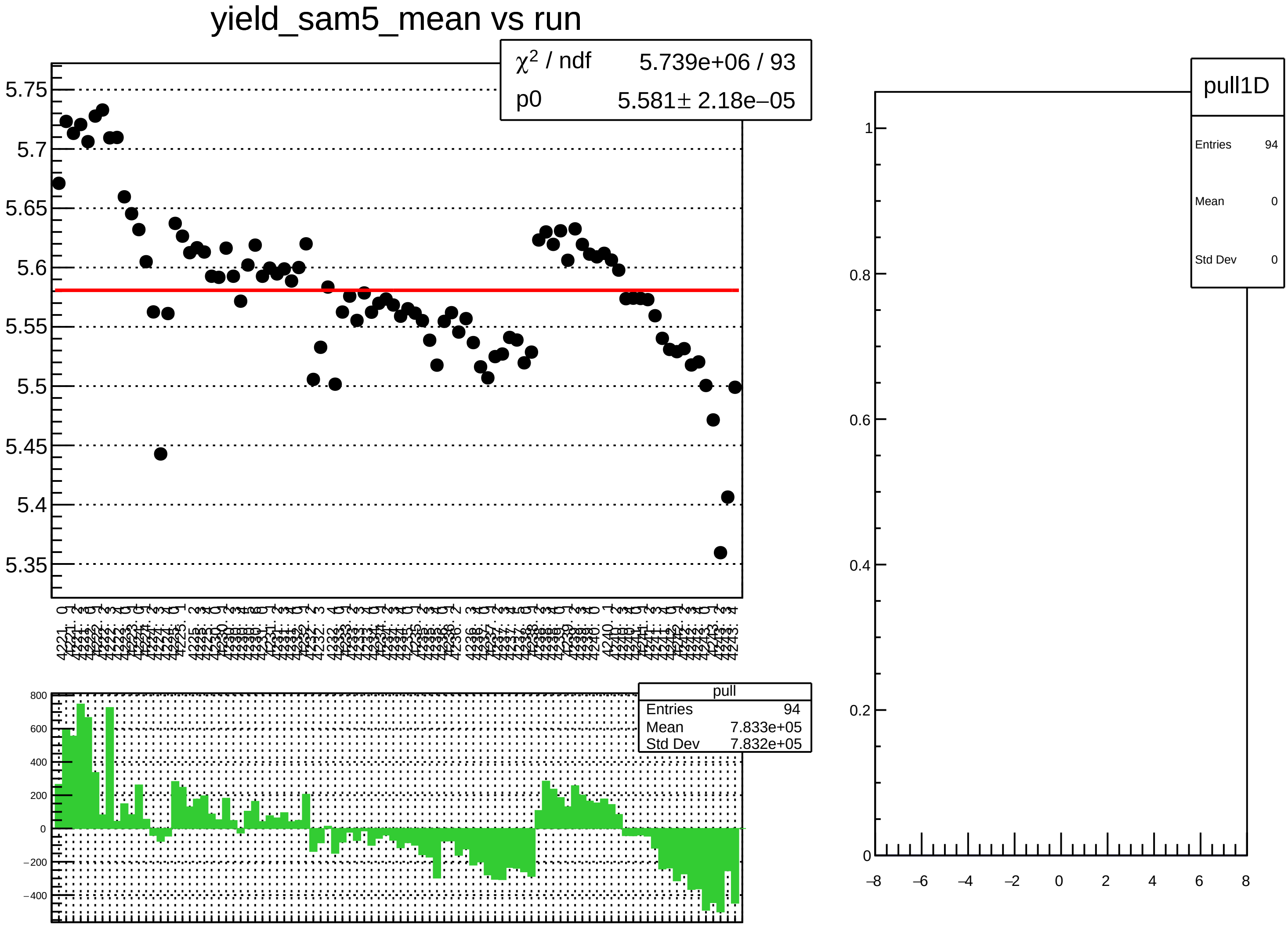
yield_sam3_rms vs run
χ^2 / ndf 2.071e+05 / 93
p0 0.5354 ± 0.0004157
22
20
18
16
14
12
10
8
6
4
2



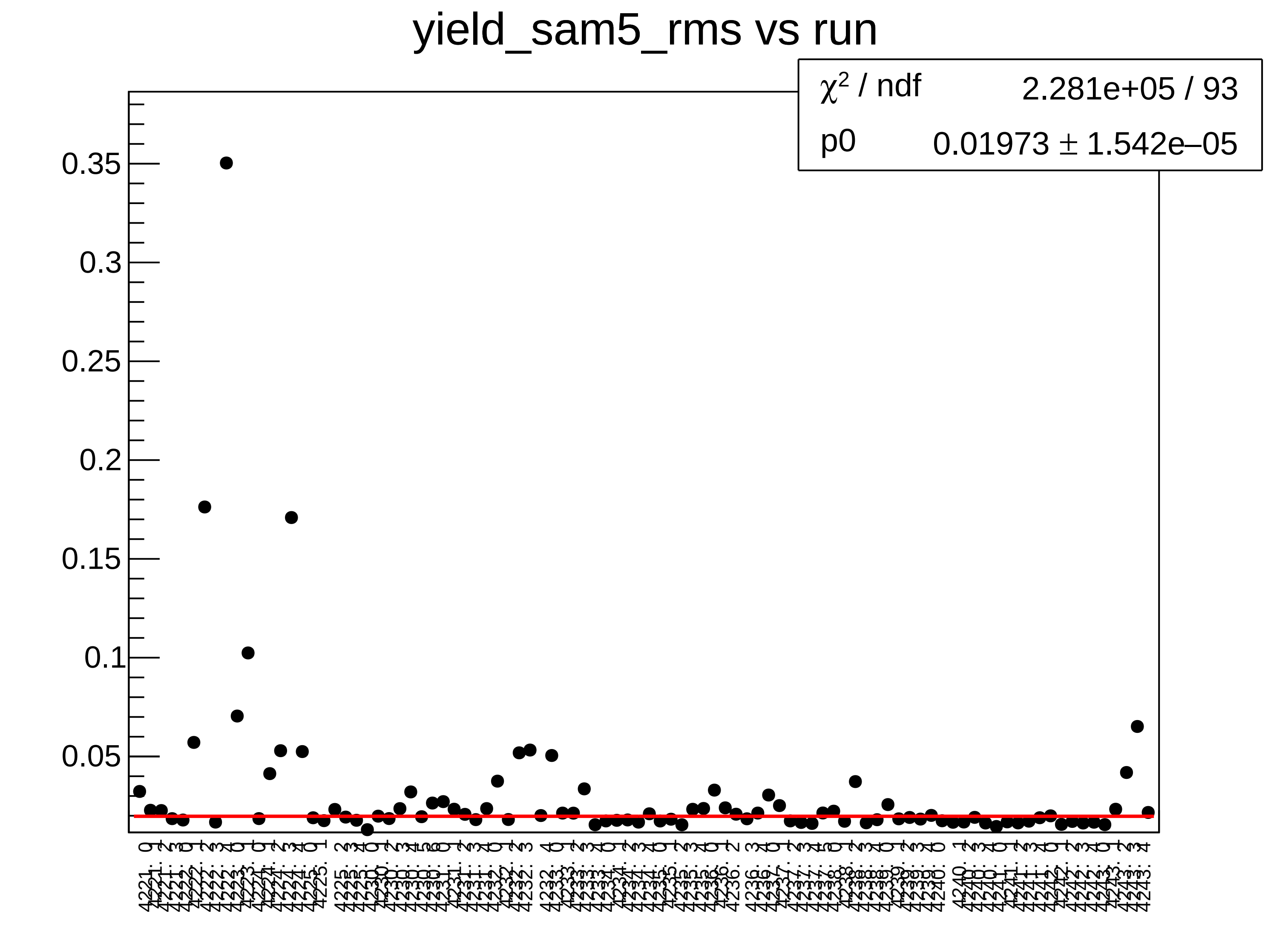
yield_sam4_mean vs run
χ^2 / ndf 1.418e+06 / 93
p0 23.65 ± 0.0003562
pull
Entries 94
Mean 206.9
Std Dev 164.2
pull1D
Entries 94
Mean 0.09285
Std Dev 4.765



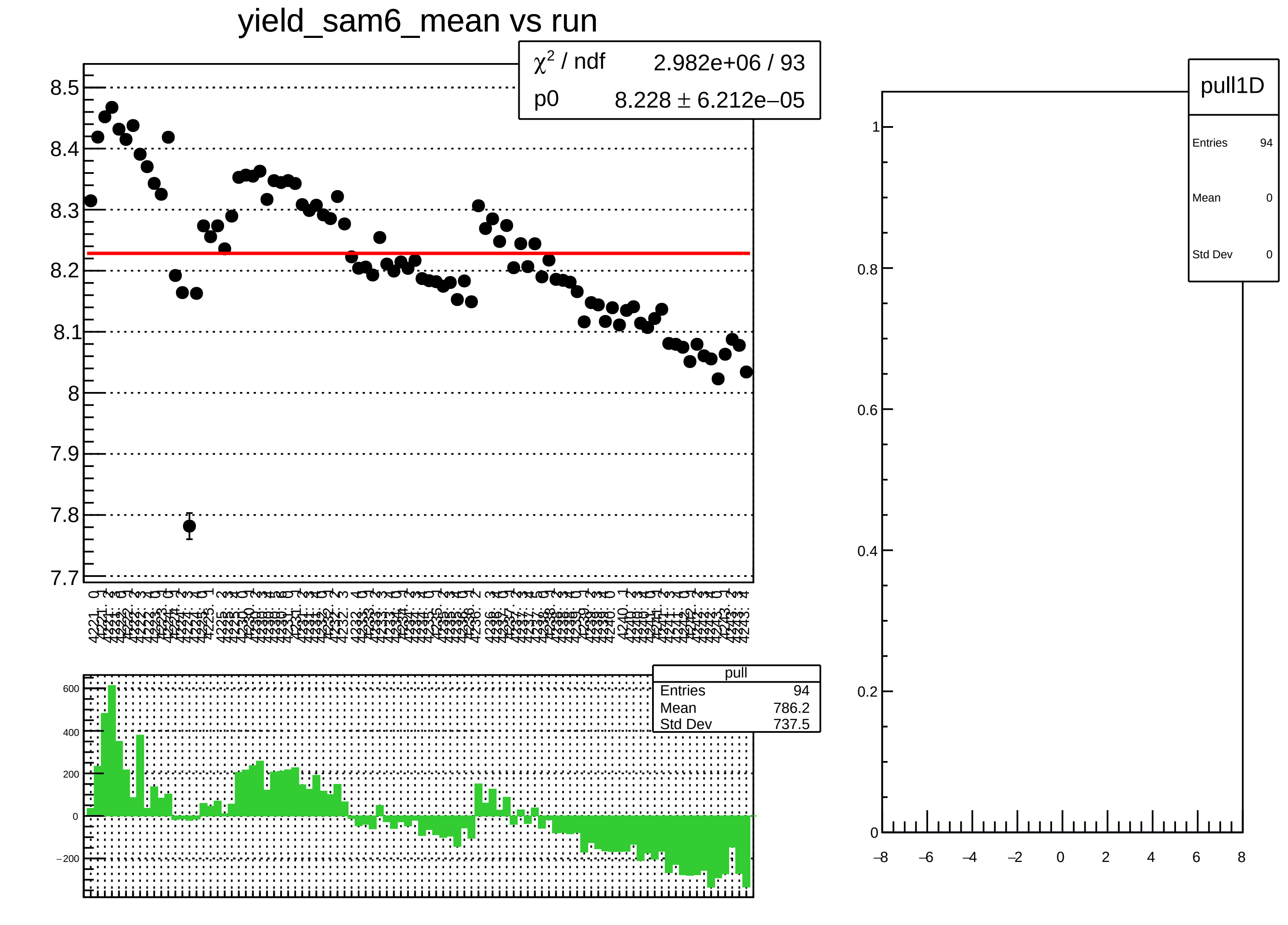
yield_sam4_rms vs run
χ^2 / ndf 2.45e+05 / 93
p0 0.3207 ± 0.0002519
12
10
8
6
4
2

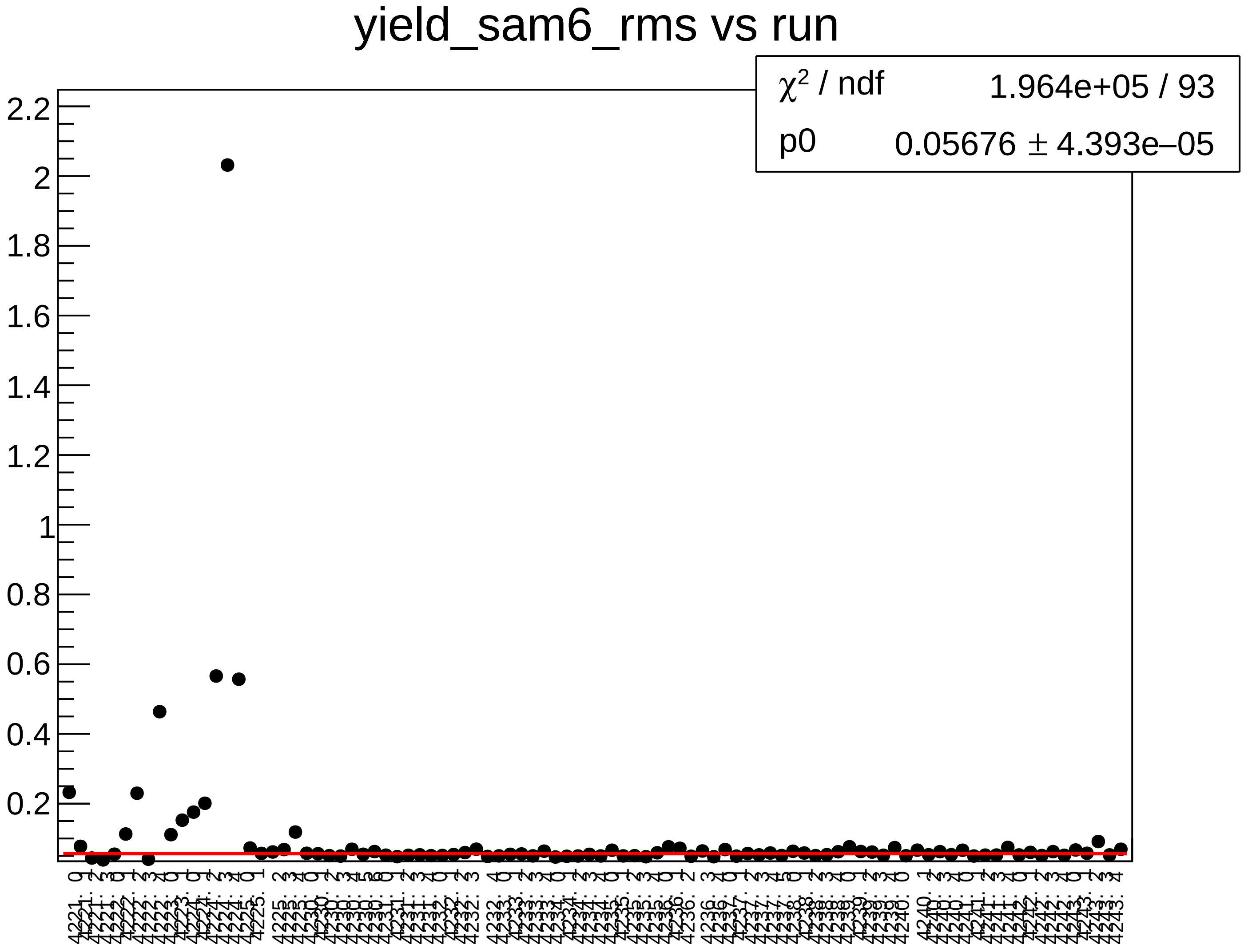


yield_sam5_mean vs run
χ^2 / ndf 5.739e+06 / 93
p0 5.581± 2.18e−05
pull
Entries 94
Mean 7.833e+05
Std Dev 7.832e+05
pull1D
Entries 94
Mean 0
Std Dev 0

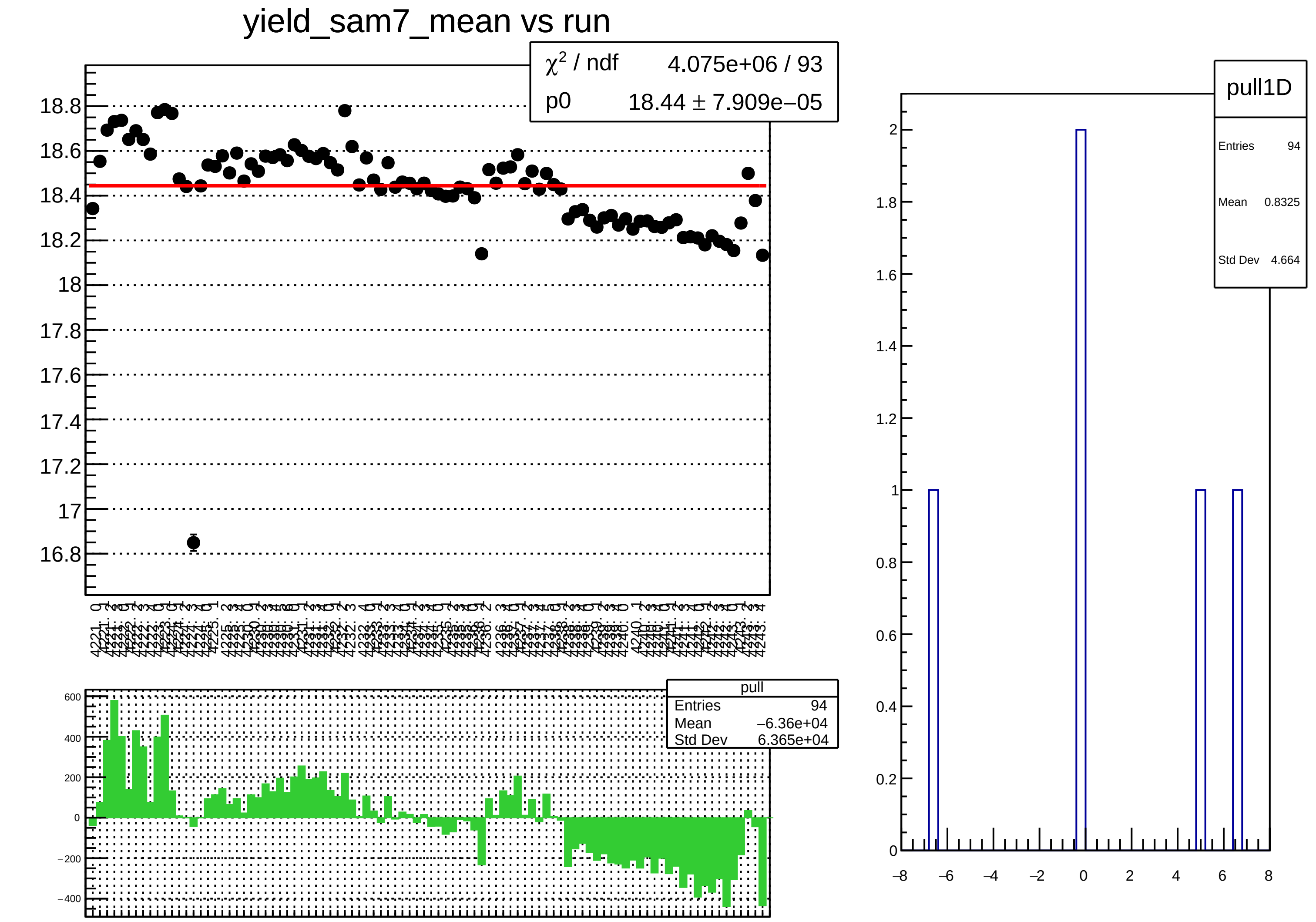


yield_sam5_rms vs run
χ^2 / ndf 2.281e+05 / 93
p0 0.01973 ± 1.542e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

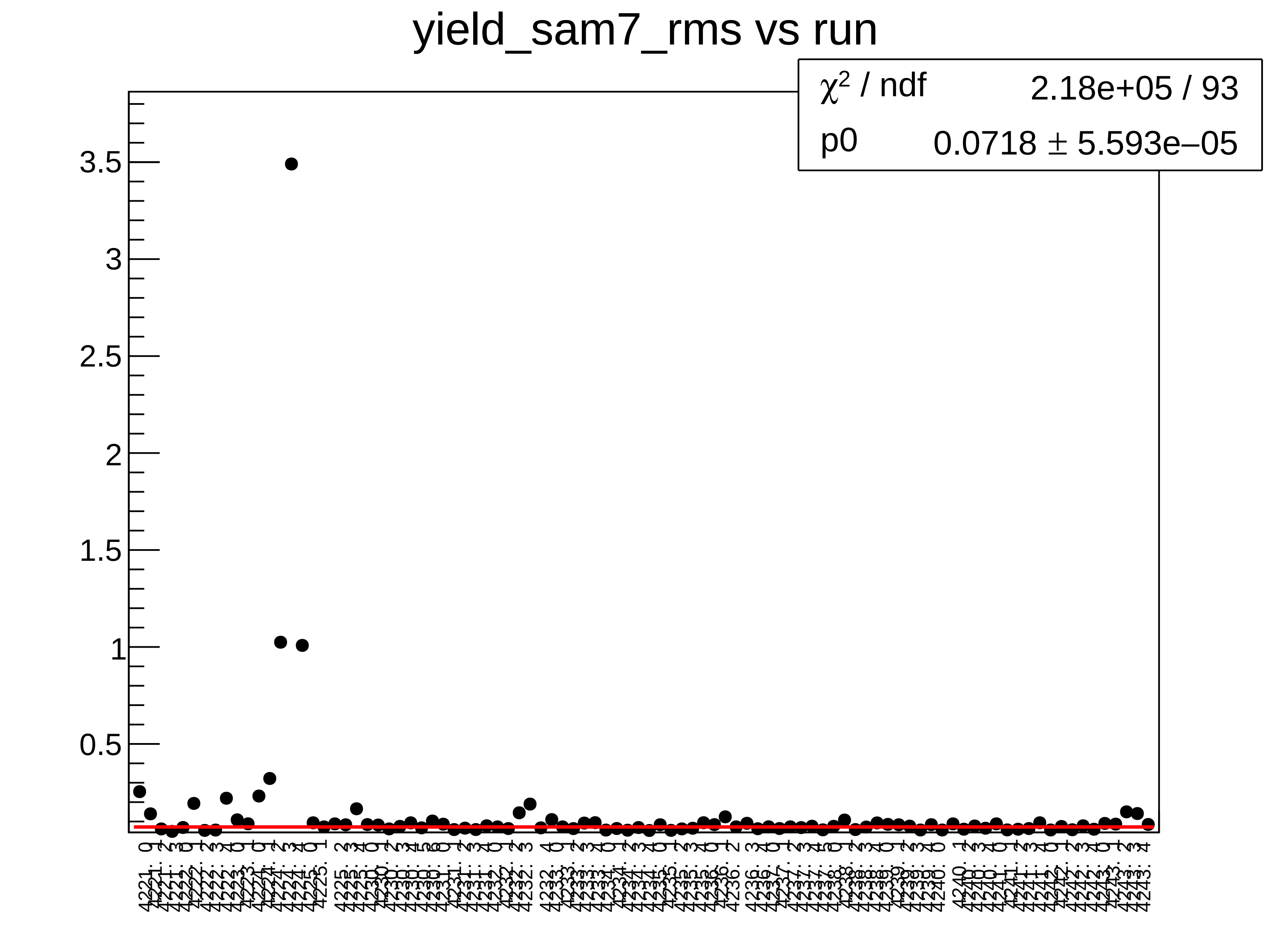

yield_sam6_mean vs run
χ2 / ndf 2.982e+06 / 93
p0 8.228 ± 6.212e−05
pull
Entries 94
Mean 786.2
Std Dev 737.5
pull1D
Entries 94
Mean 0
Std Dev 0



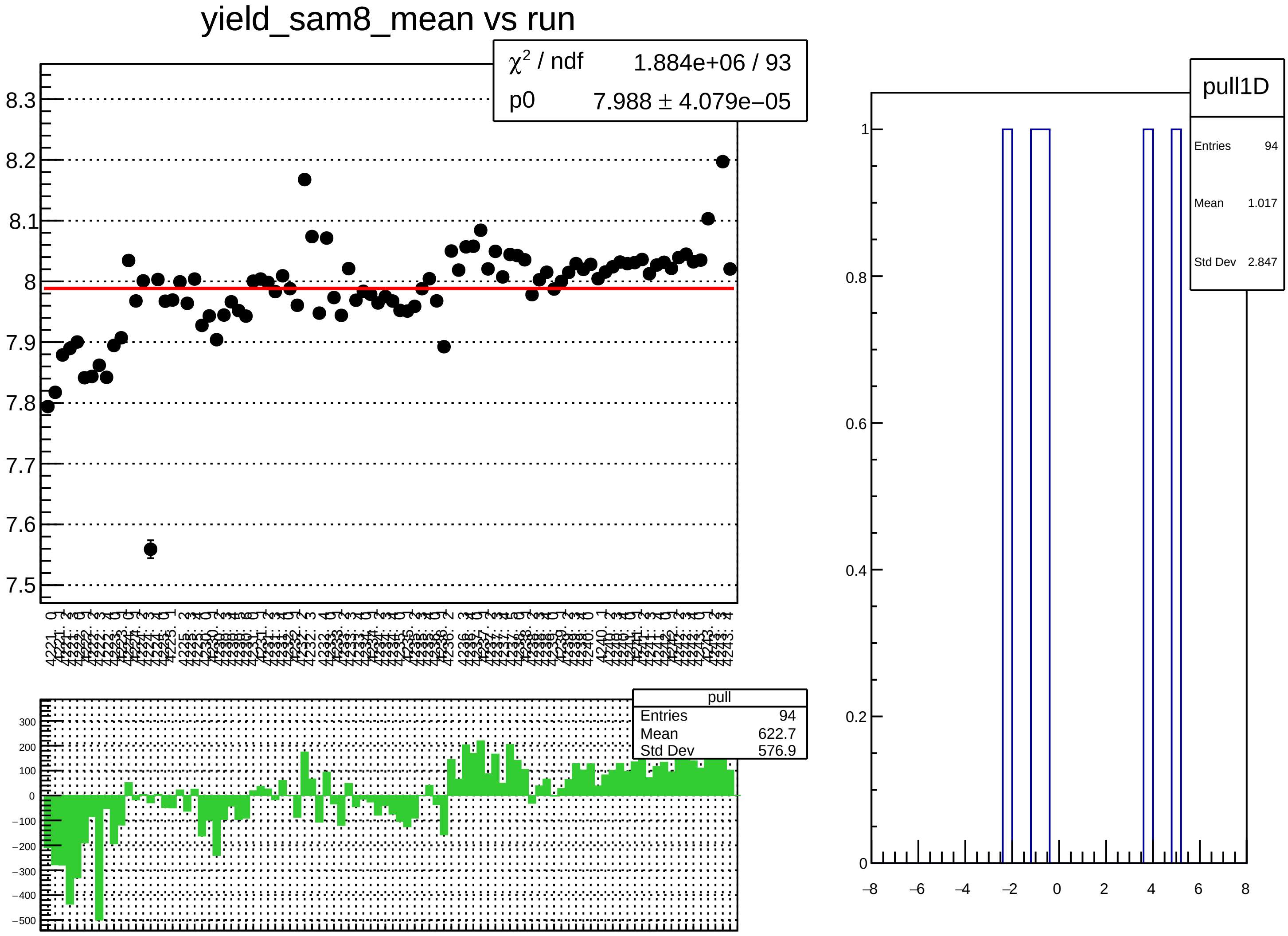
yield_sam6_rms vs run
χ2 / ndf 1.964e+05 / 93
p0 0.05676 ± 4.393e−05
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2



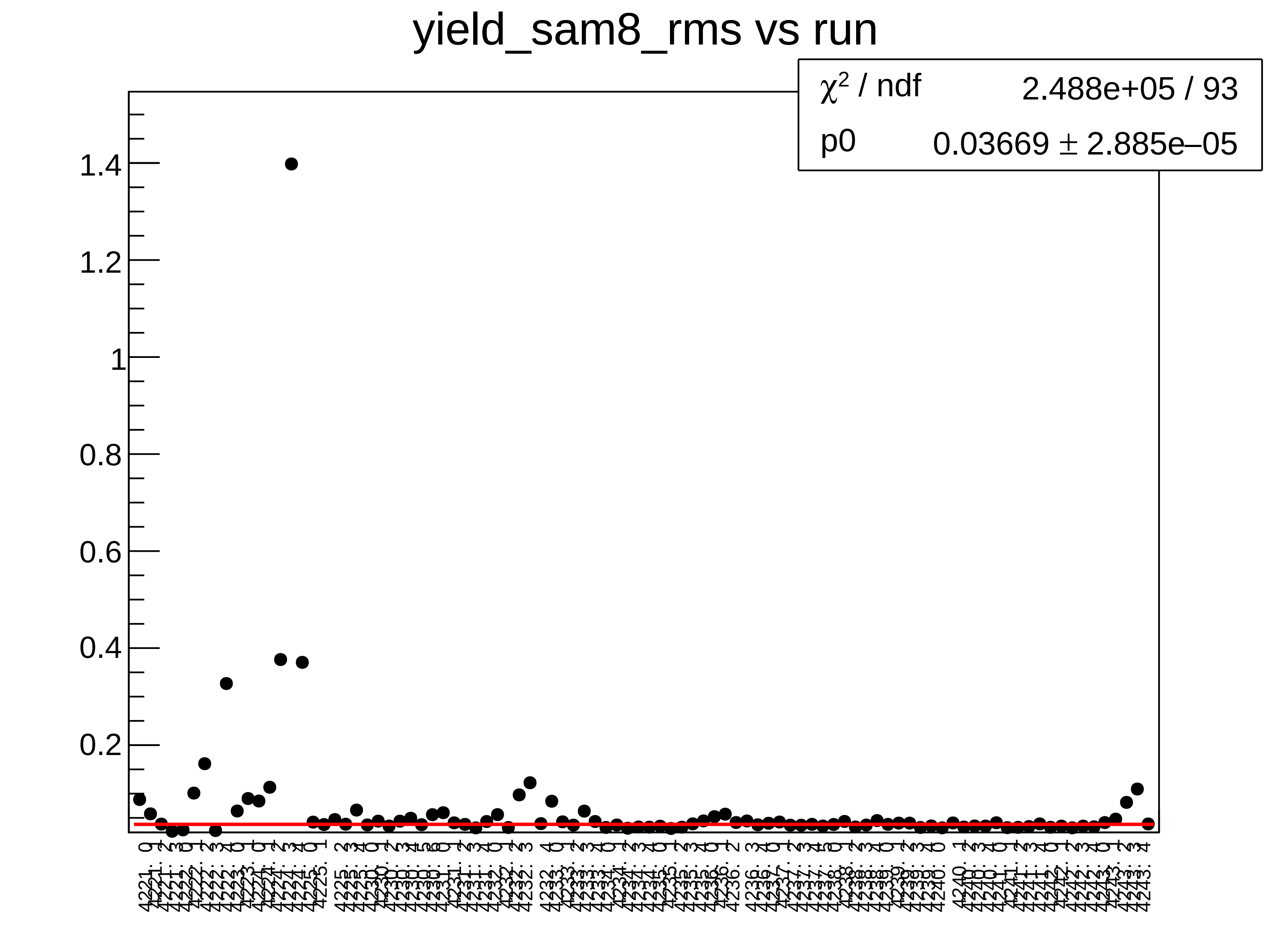
yield_sam7_mean vs run
χ^2 / ndf 4.075e+06 / 93
p0 18.44 ± 7.909e−05
pull
Entries 94
Mean −6.36e+04
Std Dev 6.365e+04
pull1D
Entries 94
Mean 0.8325
Std Dev 4.664



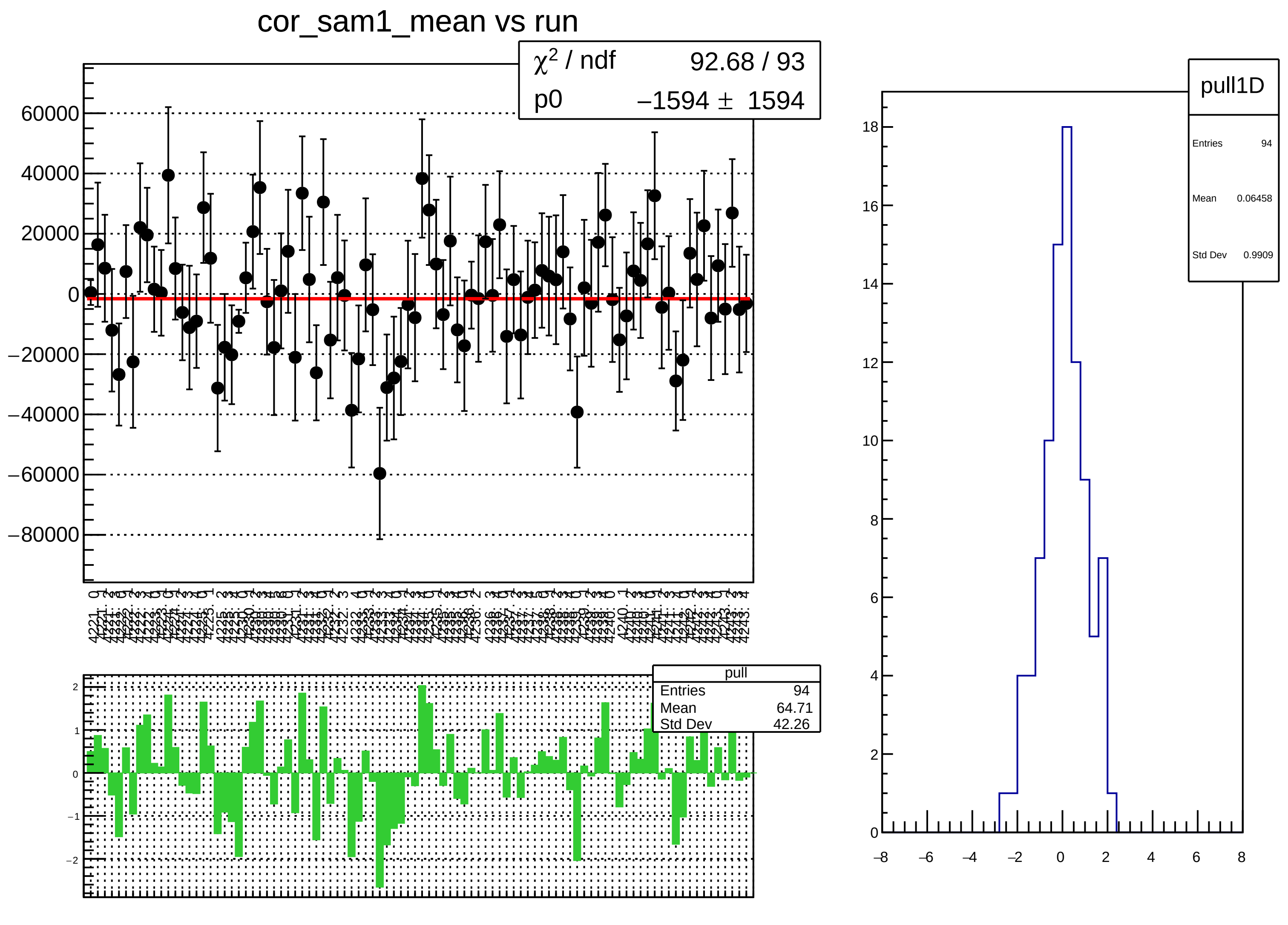
yield_sam7_rms vs run
χ² / ndf 2.18e+05 / 93
p0 0.0718 ± 5.593e−05



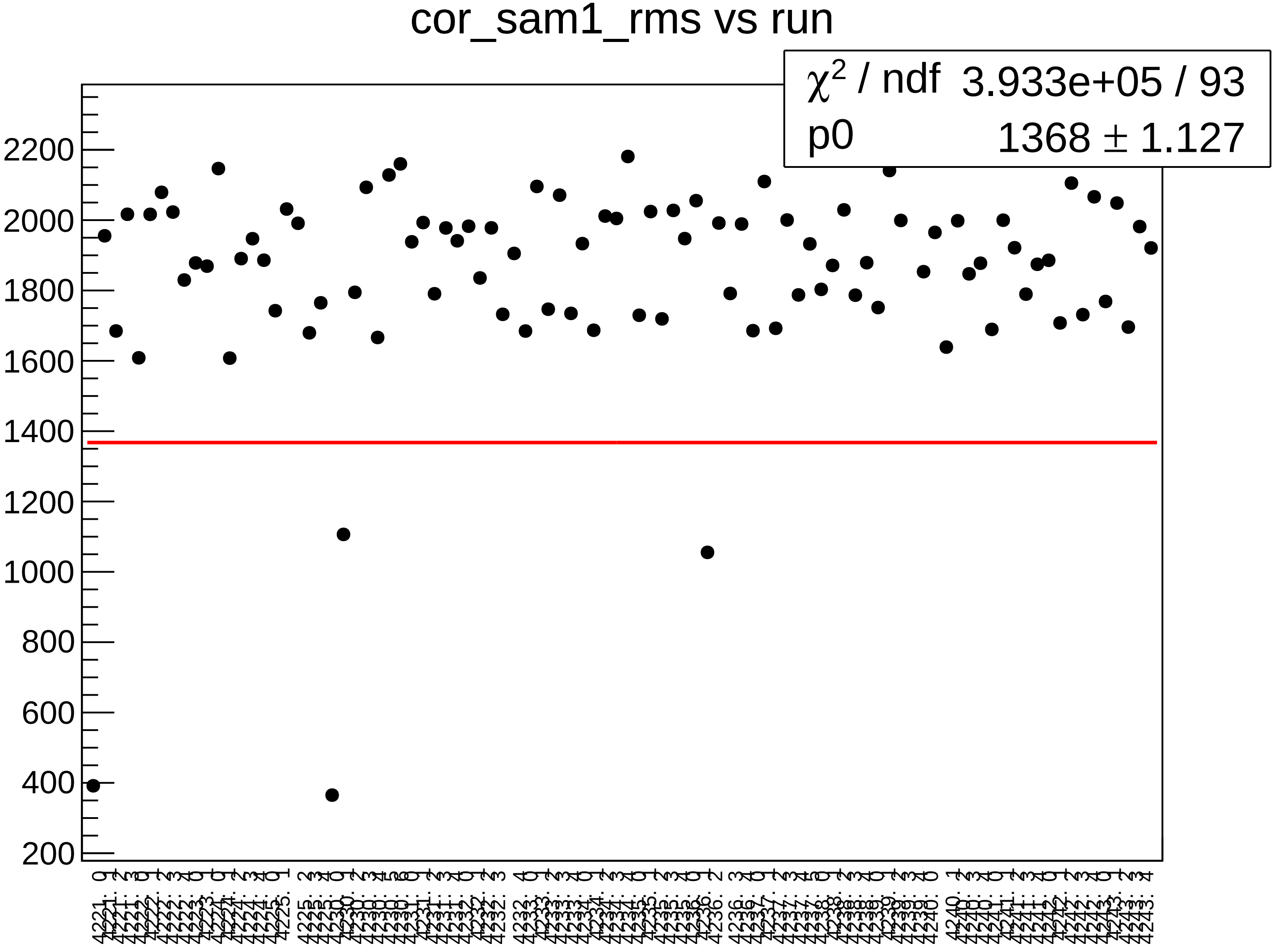
yield_sam8_mean vs run
χ2 / ndf 1.884e+06 / 93
p0 7.988 ± 4.079e−05
pull
Entries 94
Mean 622.7
Std Dev 576.9
pull1D
Entries 94
Mean 1.017
Std Dev 2.847



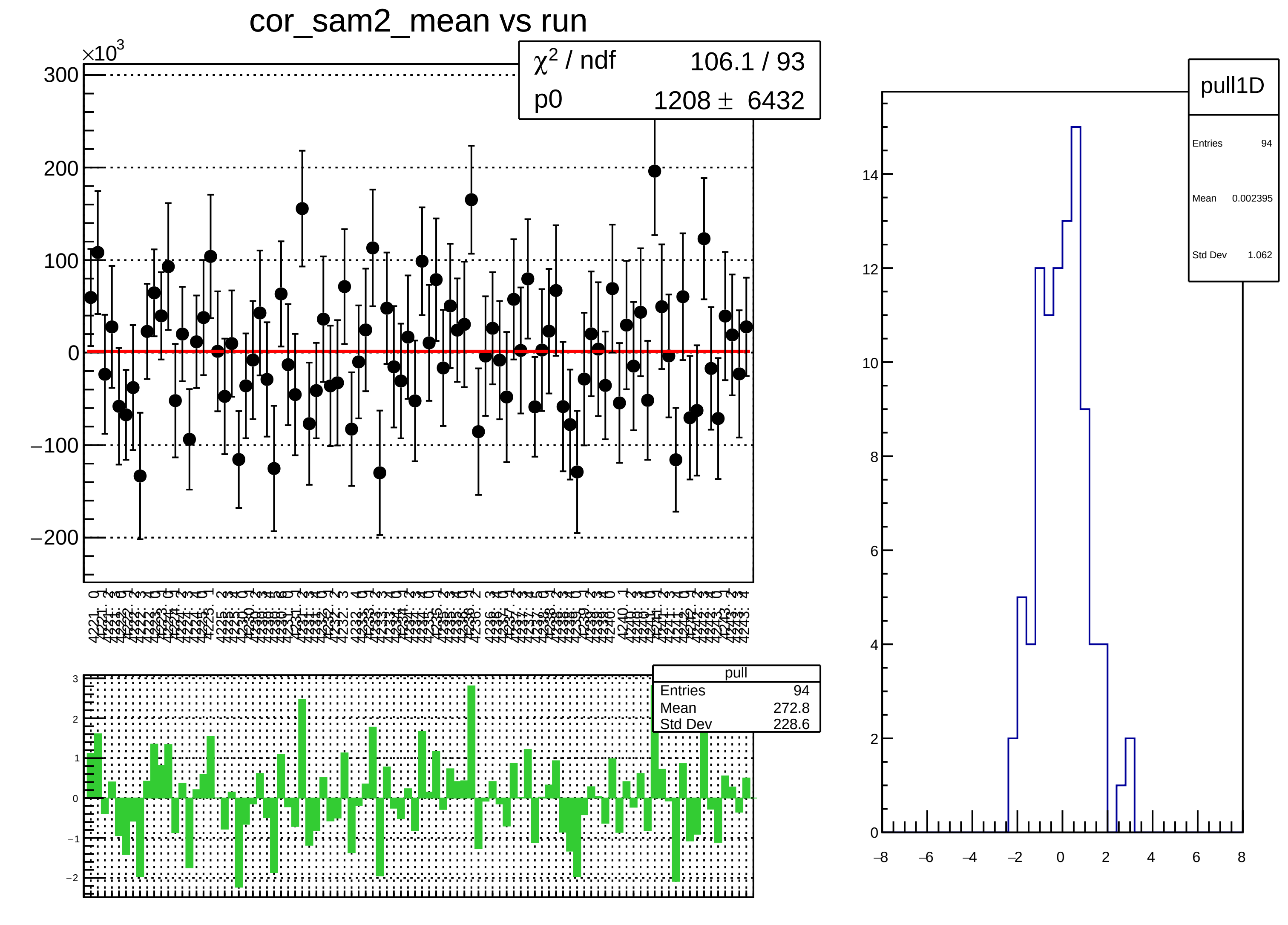
yield_sam8_rms vs run
χ^2 / ndf 2.488e+05 / 93
p0 0.03669 ± 2.885e−05



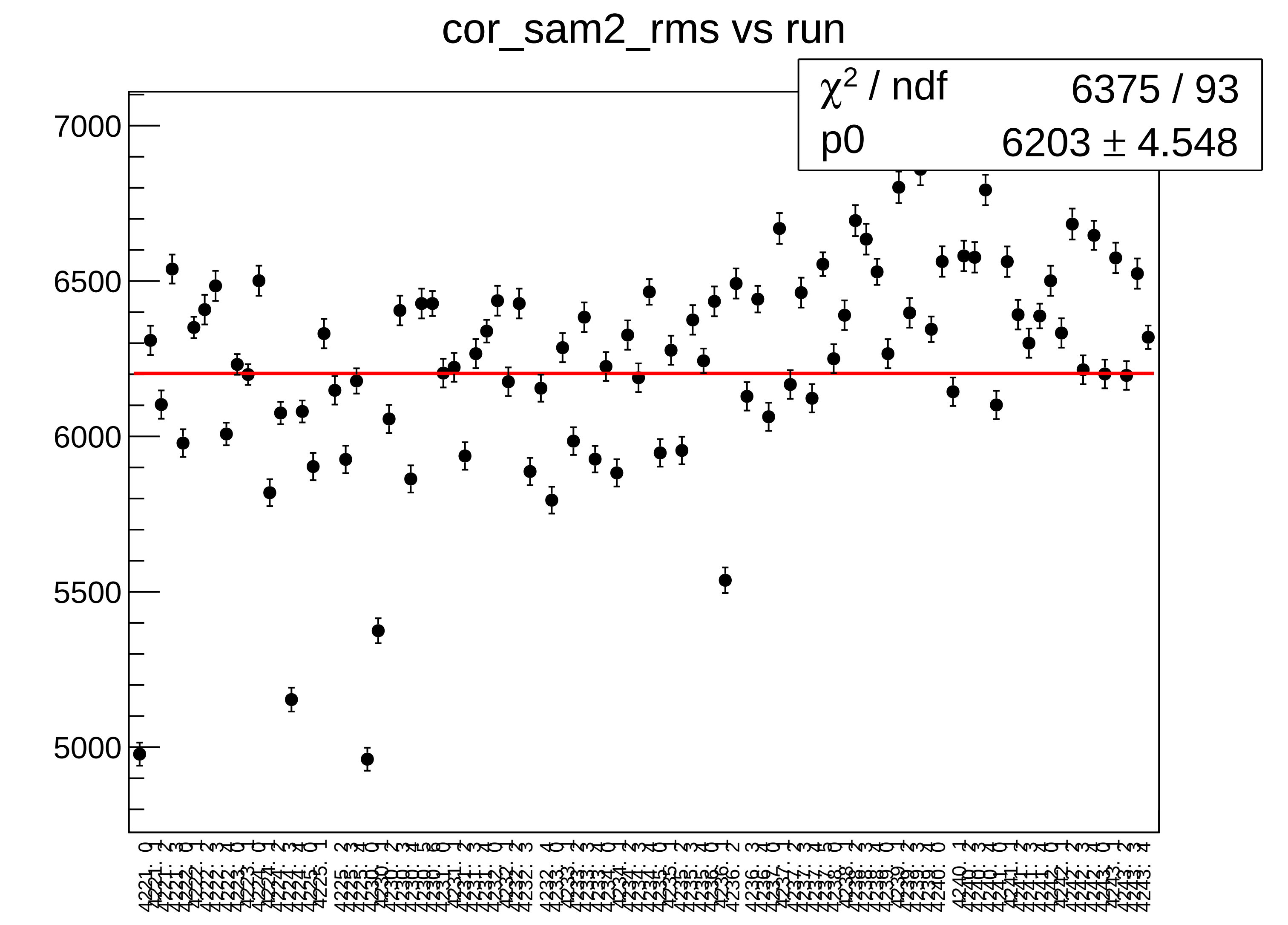
cor_sam1_mean vs run
χ^2 / ndf 92.68 / 93
p0 −1594 ± 1594
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 64.71
Std Dev 42.26
pull1D
Entries 94
Mean 0.06458
Std Dev 0.9909



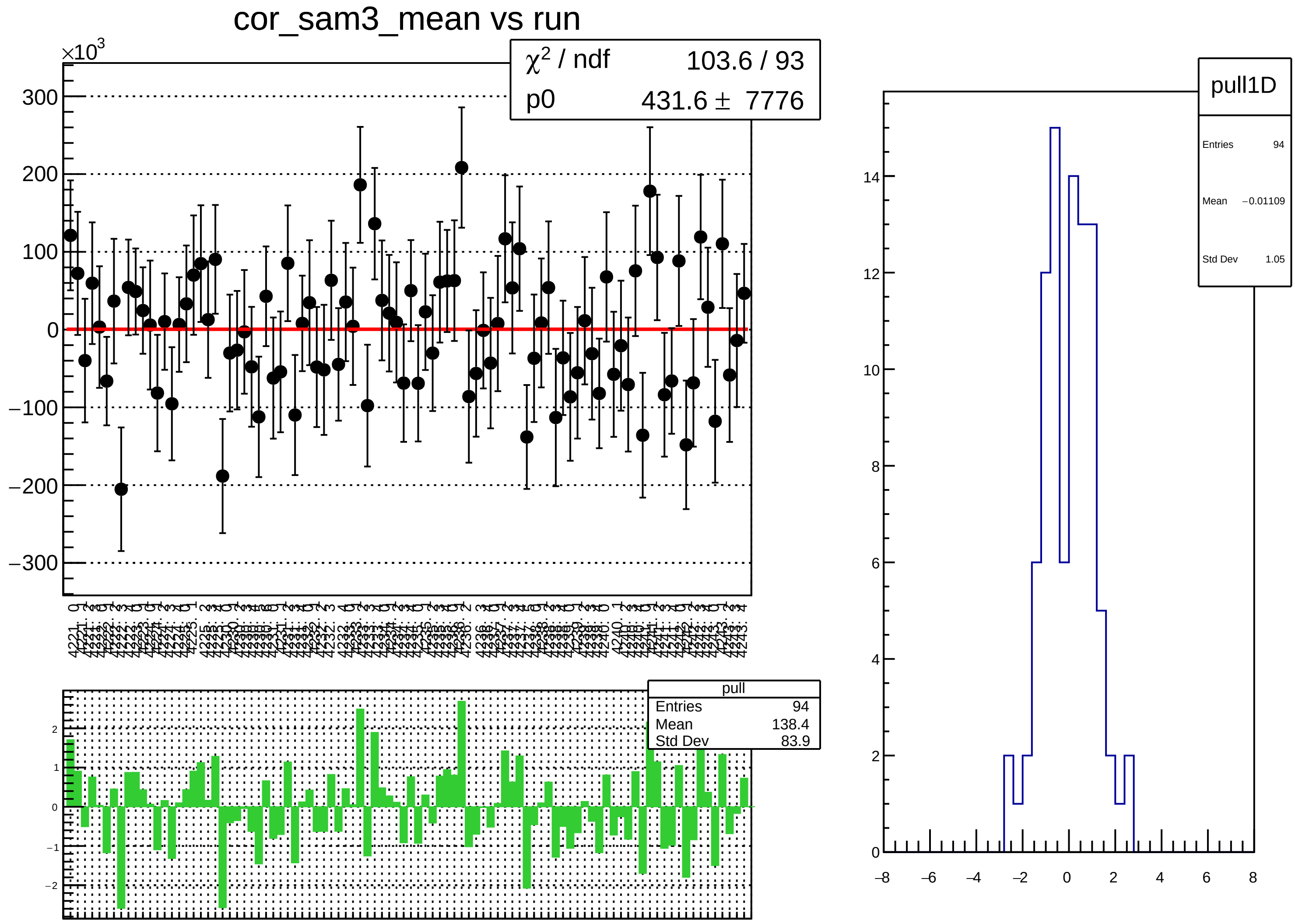
cor_sam1_rms vs run
χ2 / ndf 3.933e+05 / 93
p0 1368 ± 1.127
2200
2000
1800
1600
1400
1200
1000
800
600
400
200



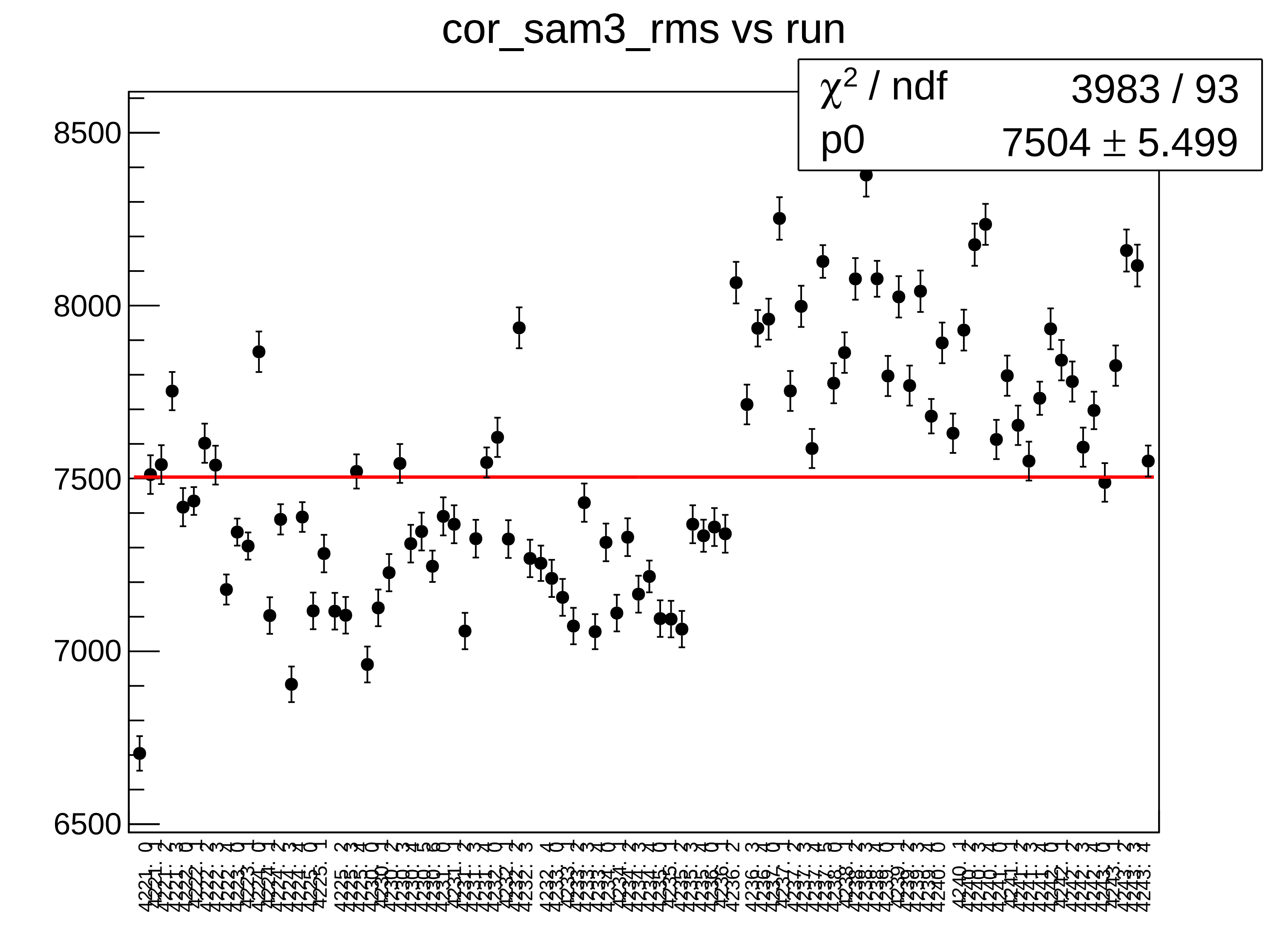
cor_sam2_mean vs run
χ^2 / ndf 106.1 / 93
p0 1208 ± 6432
pull
Entries 94
Mean 272.8
Std Dev 228.6
pull1D
Entries 94
Mean 0.002395
Std Dev 1.062



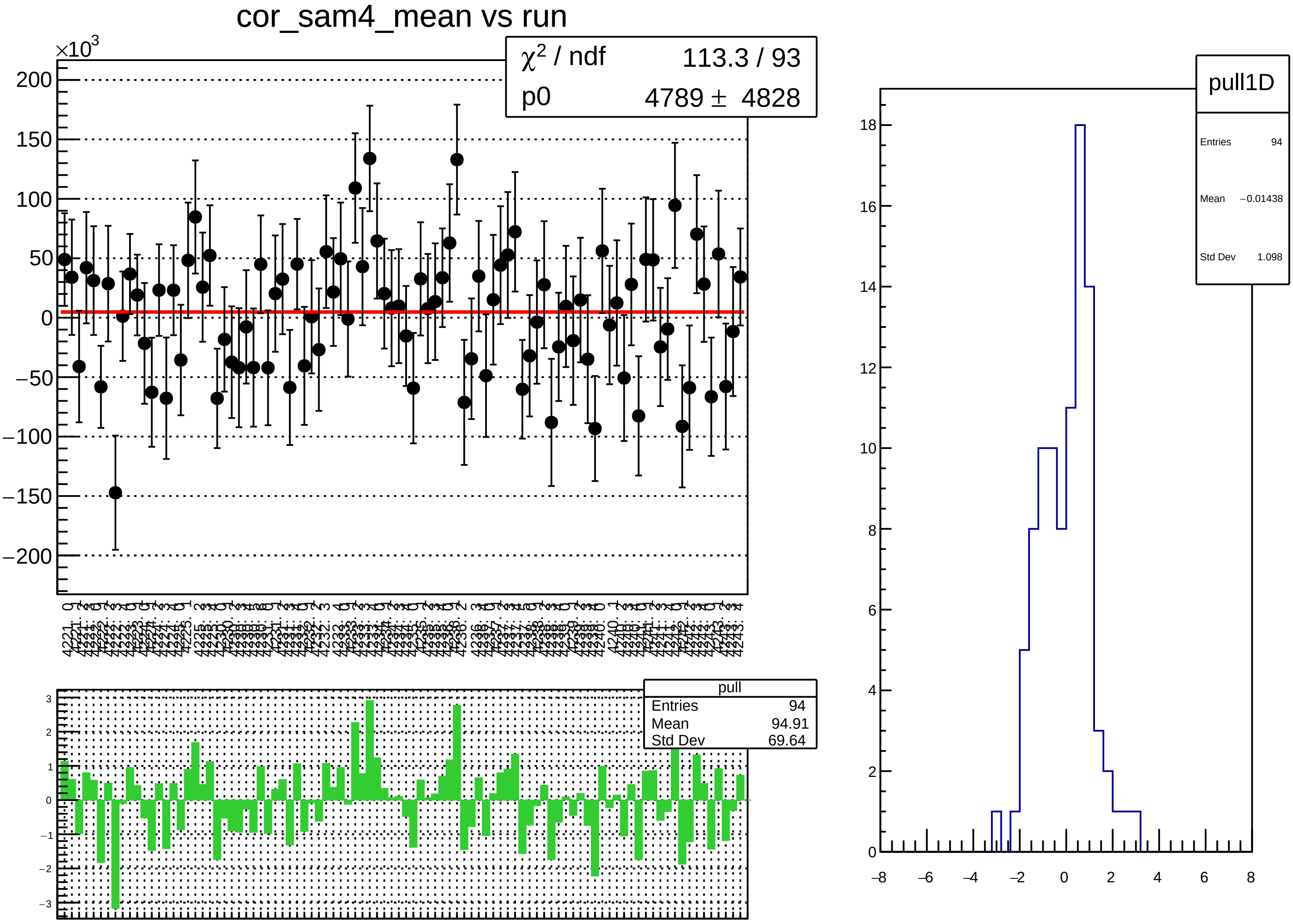
cor_sam2_rms vs run
χ^2 / ndf 6375 / 93
p0 6203 ± 4.548
7000
6500
6000
5500
5000

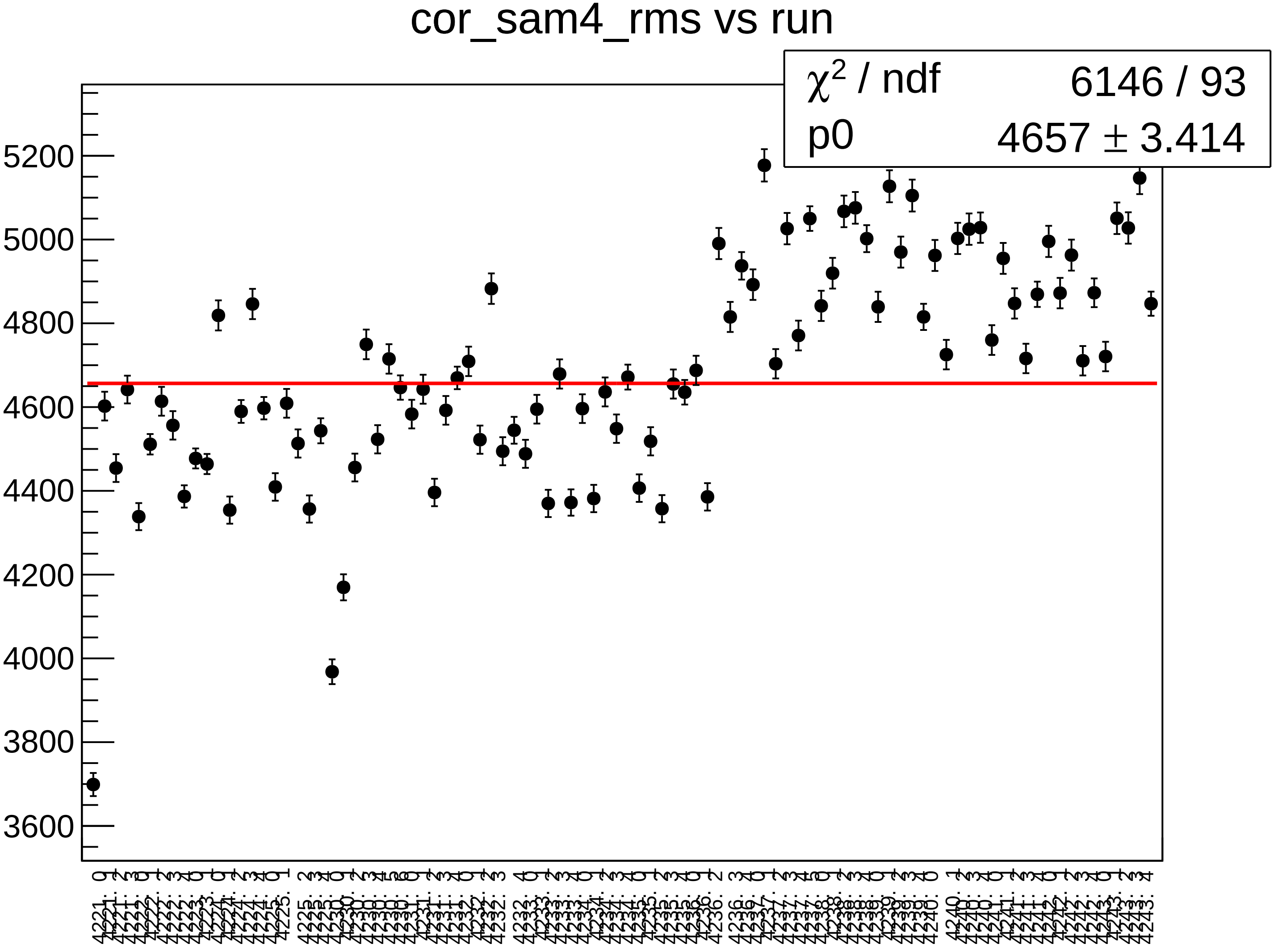


cor_sam3_mean vs run
×10^3
χ^2 / ndf 103.6 / 93
p0 431.6 ± 7776
pull
Entries 94
Mean 138.4
Std Dev 83.9
pull1D
Entries 94
Mean −0.01109
Std Dev 1.05

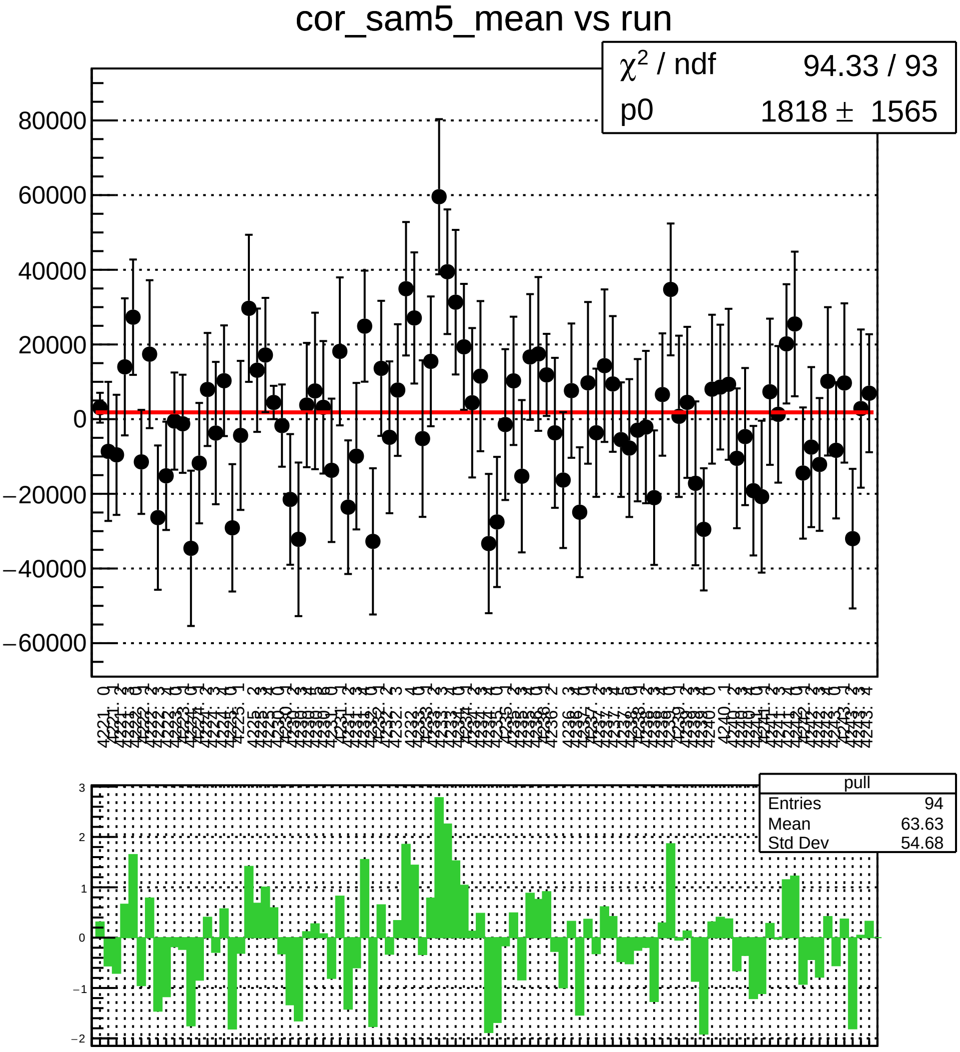


cor_sam3_rms vs run
χ2 / ndf 3983 / 93
p0 7504 ± 5.499
8500
8000
7500
7000
6500

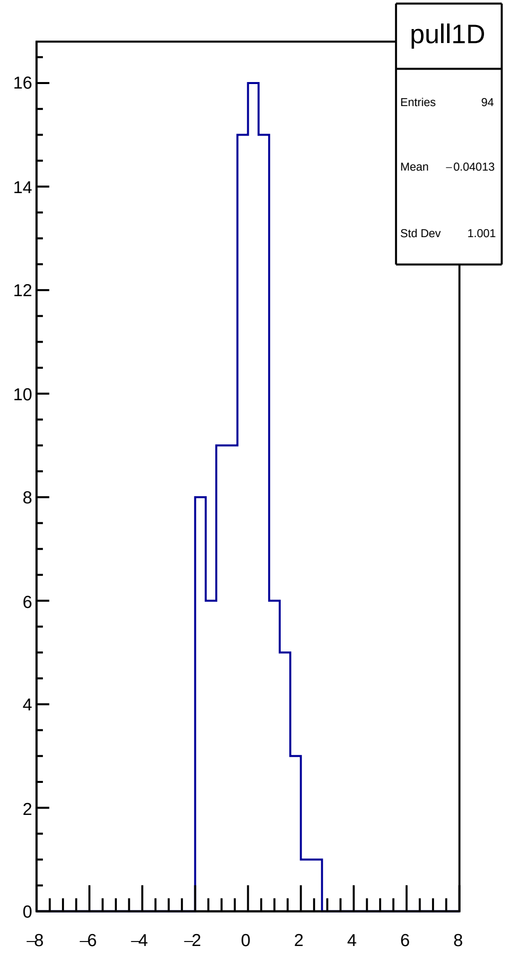

cor_sam4_mean vs run
$\times10^3$
χ^2 / ndf 113.3 / 93
p0 4789 ± 4828
pull
Entries 94
Mean 94.91
Std Dev 69.64
pull1D
Entries 94
Mean −0.01438
Std Dev 1.098



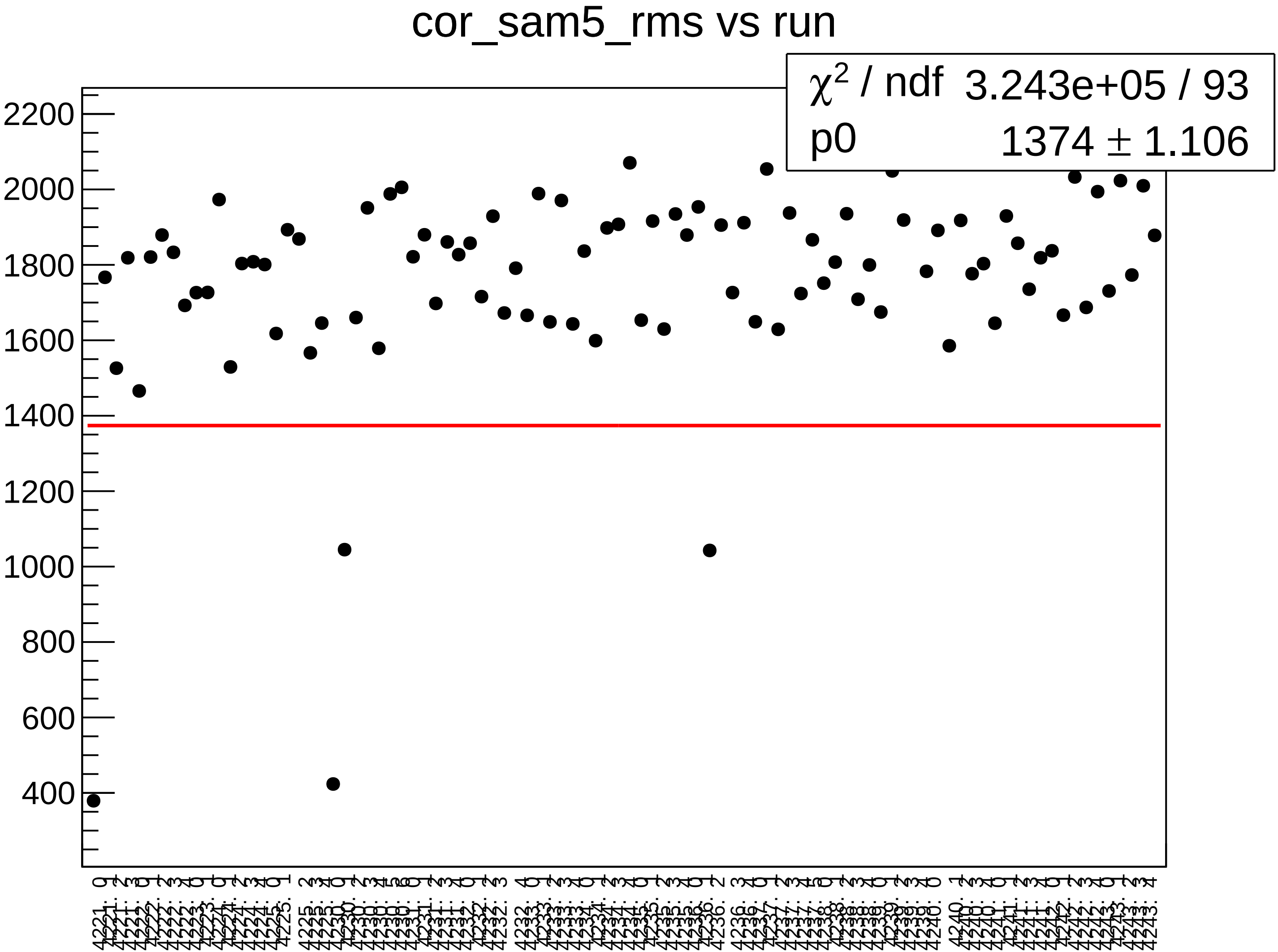
cor_sam4_rms vs run
χ2 / ndf 6146 / 93
p0 4657 ± 3.414
5200
5000
4800
4600
4400
4200
4000
3800
3600

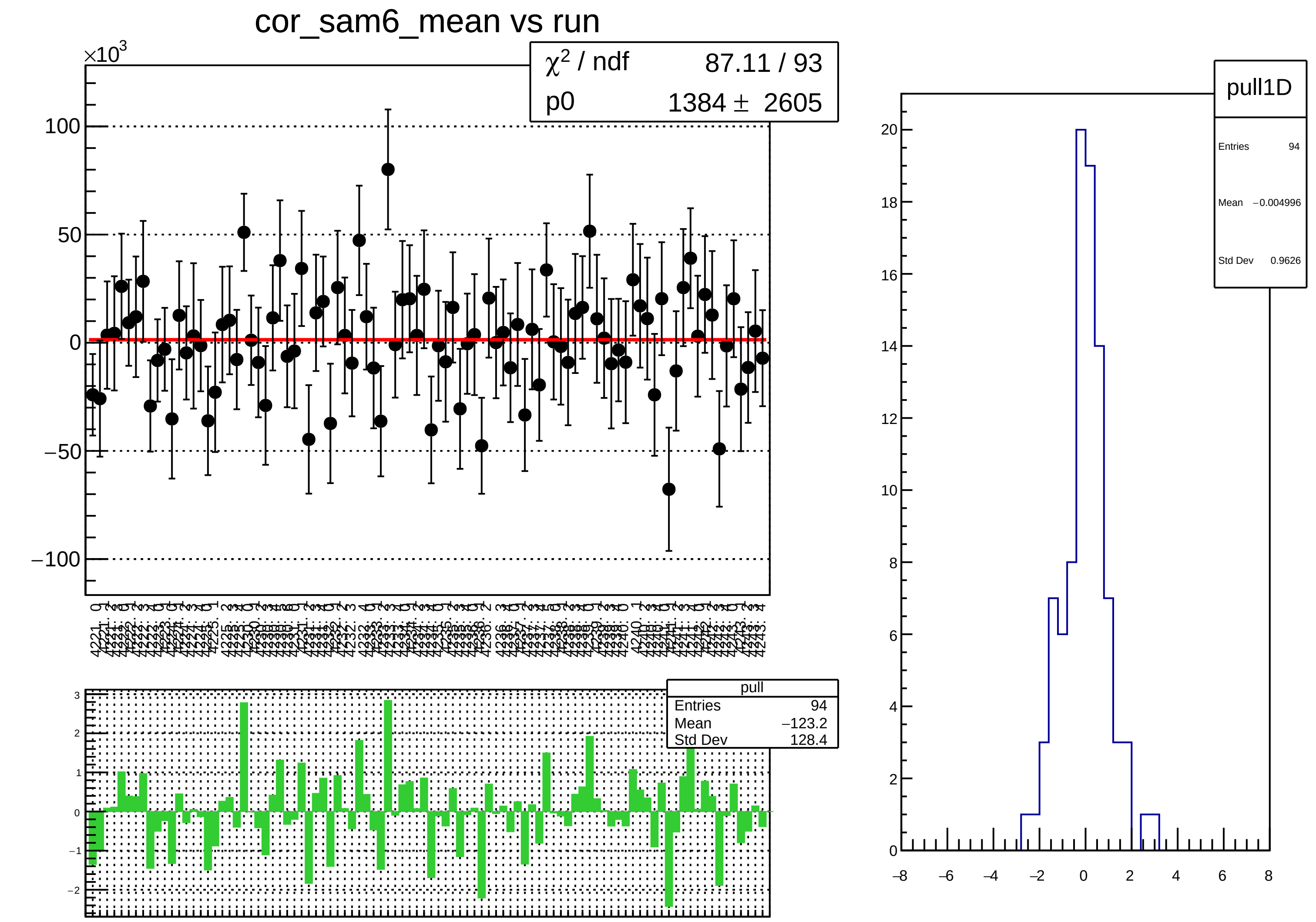


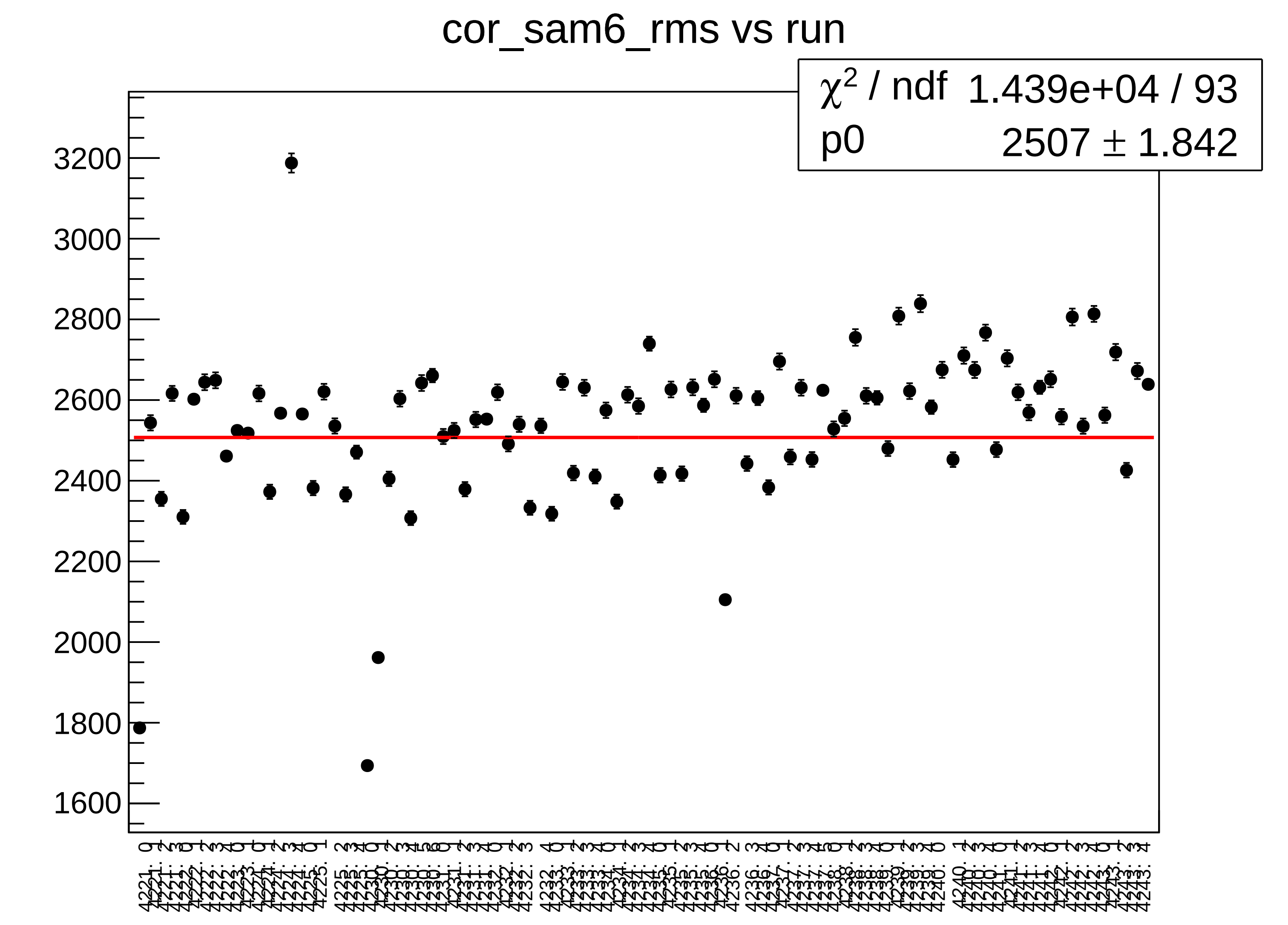
cor_sam5_mean vs run
χ^2 / ndf 94.33 / 93
p0 1818 ± 1565
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 63.63
Std Dev 54.68



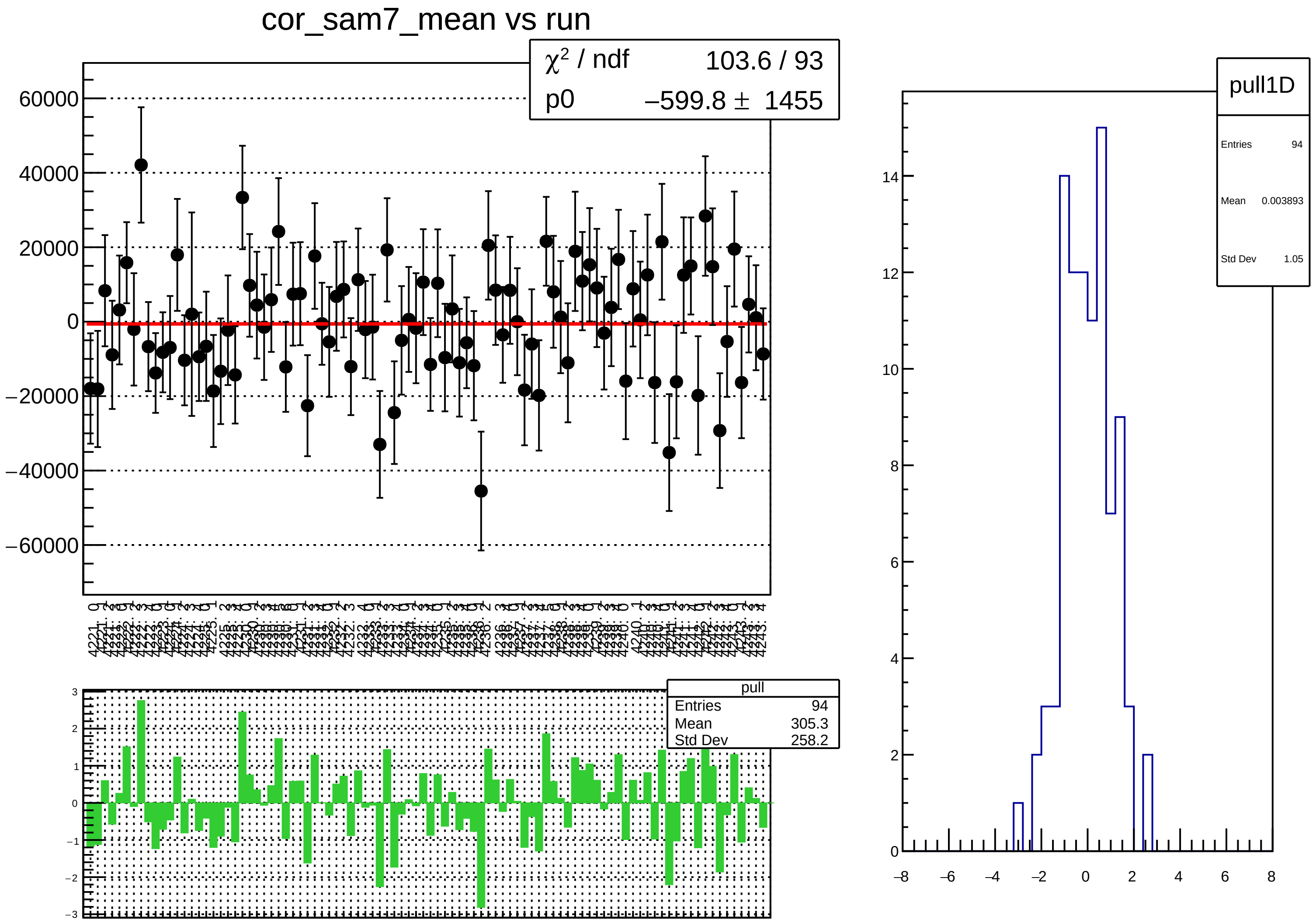
pull1D
Entries 94
Mean −0.04013
Std Dev 1.001


cor_sam5_rms vs run
χ^2 / ndf 3.243e+05 / 93
p0 1374 ± 1.106
2200
2000
1800
1600
1400
1200
1000
800
600
400

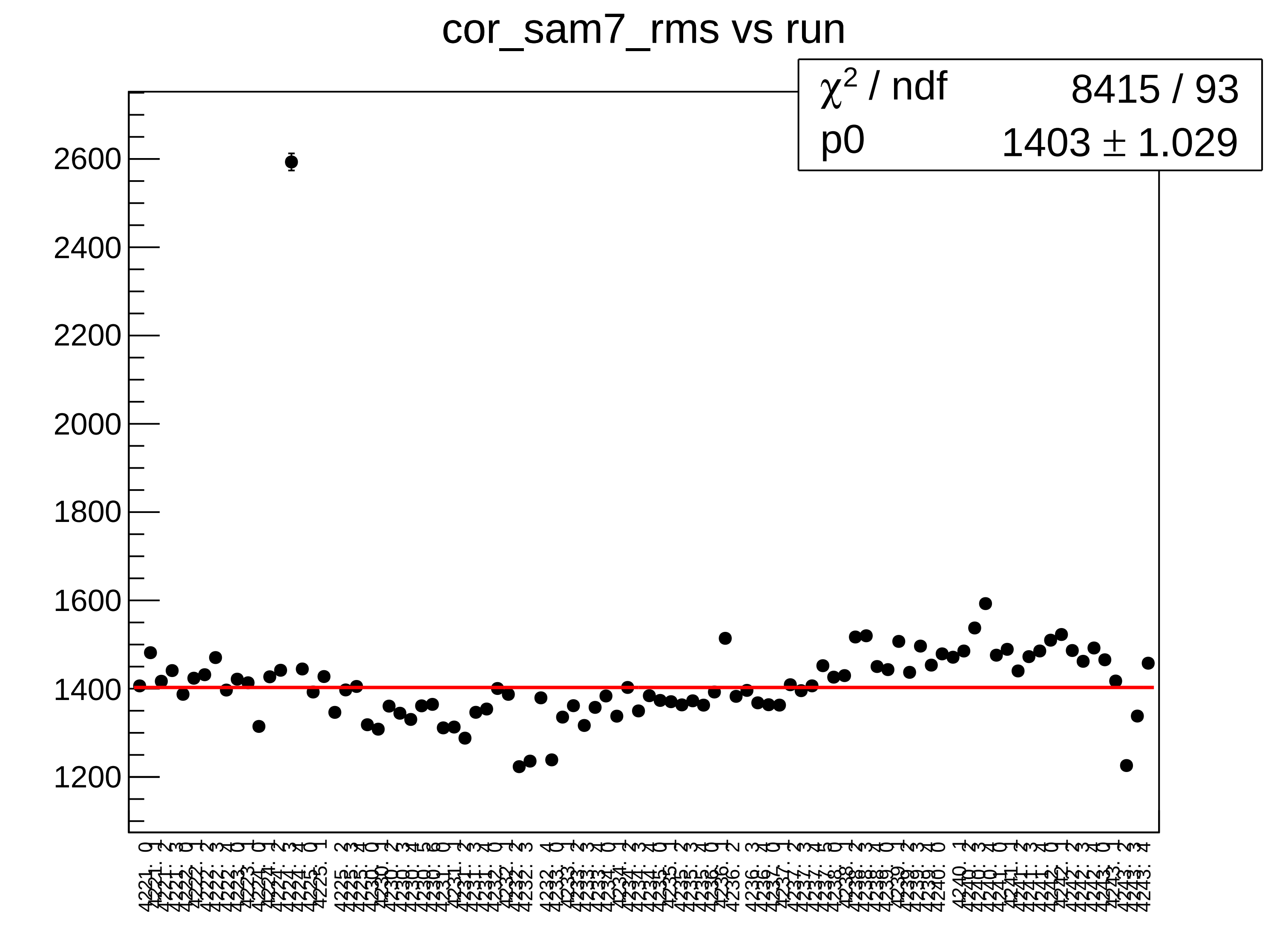

cor_sam6_mean vs run
×10^3
χ2 / ndf 87.11 / 93
p0 1384 ± 2605
100
50
0
−50
−100
pull
Entries 94
Mean −123.2
Std Dev 128.4
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004996
Std Dev 0.9626
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



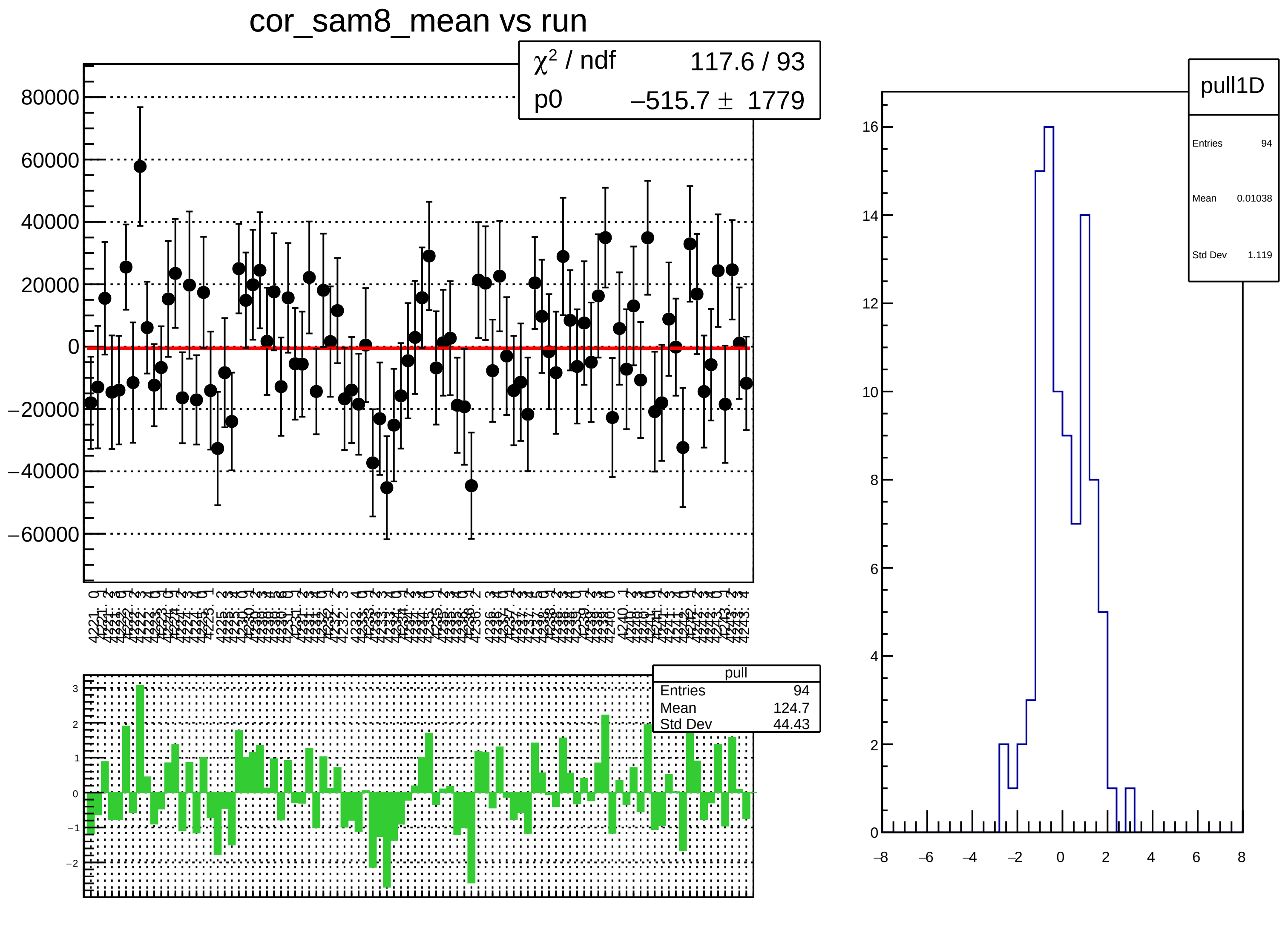
cor_sam6_rms vs run
χ2 / ndf 1.439e+04 / 93
p0 2507 ± 1.842
3200
3000
2800
2600
2400
2200
2000
1800
1600



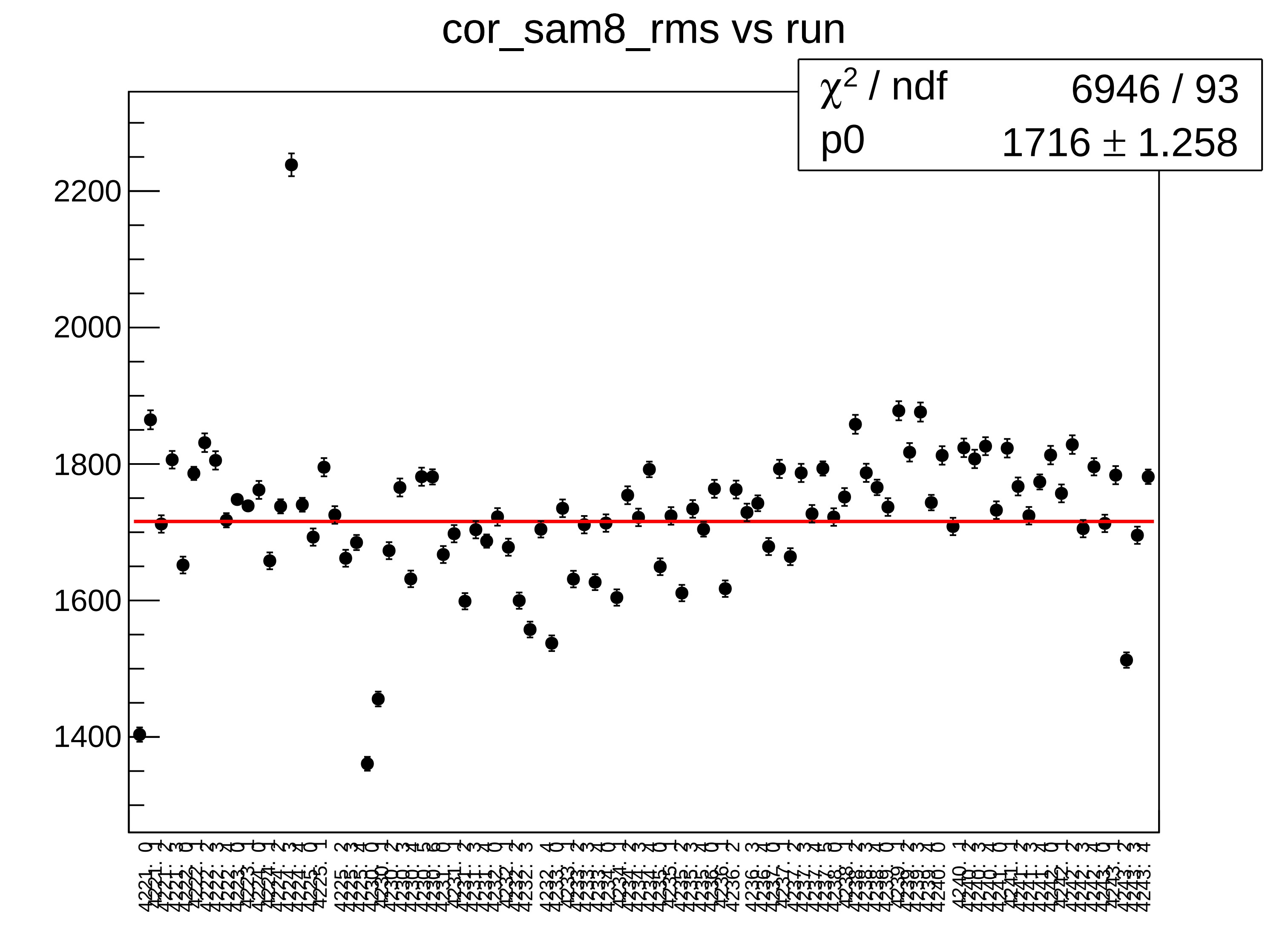
cor_sam7_mean vs run
χ2 / ndf 103.6 / 93
p0 −599.8 ± 1455
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 305.3
Std Dev 258.2
pull1D
Entries 94
Mean 0.003893
Std Dev 1.05



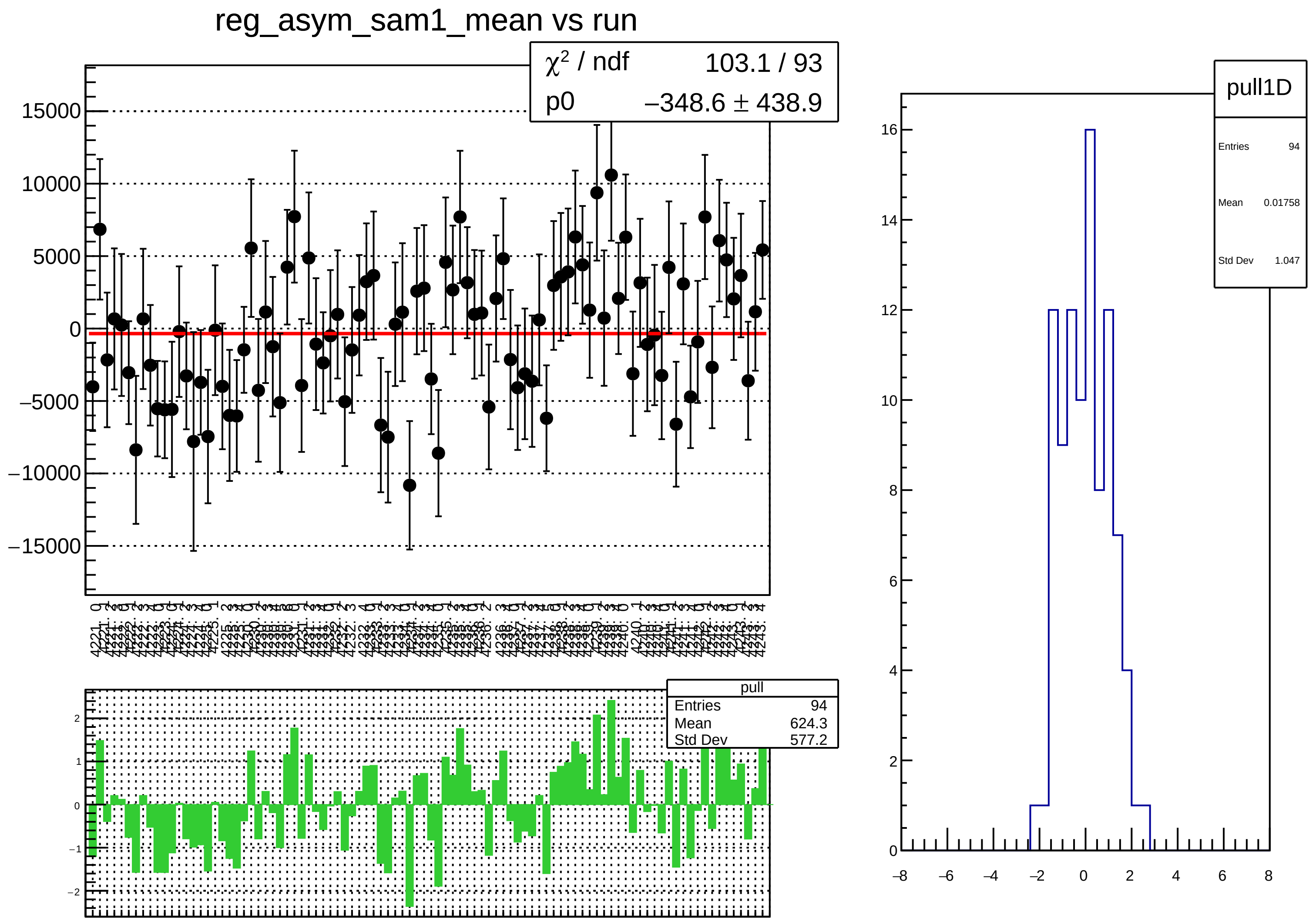
cor_sam7_rms vs run
χ^2 / ndf 8415 / 93
p0 1403 ± 1.029
2600
2400
2200
2000
1800
1600
1400
1200



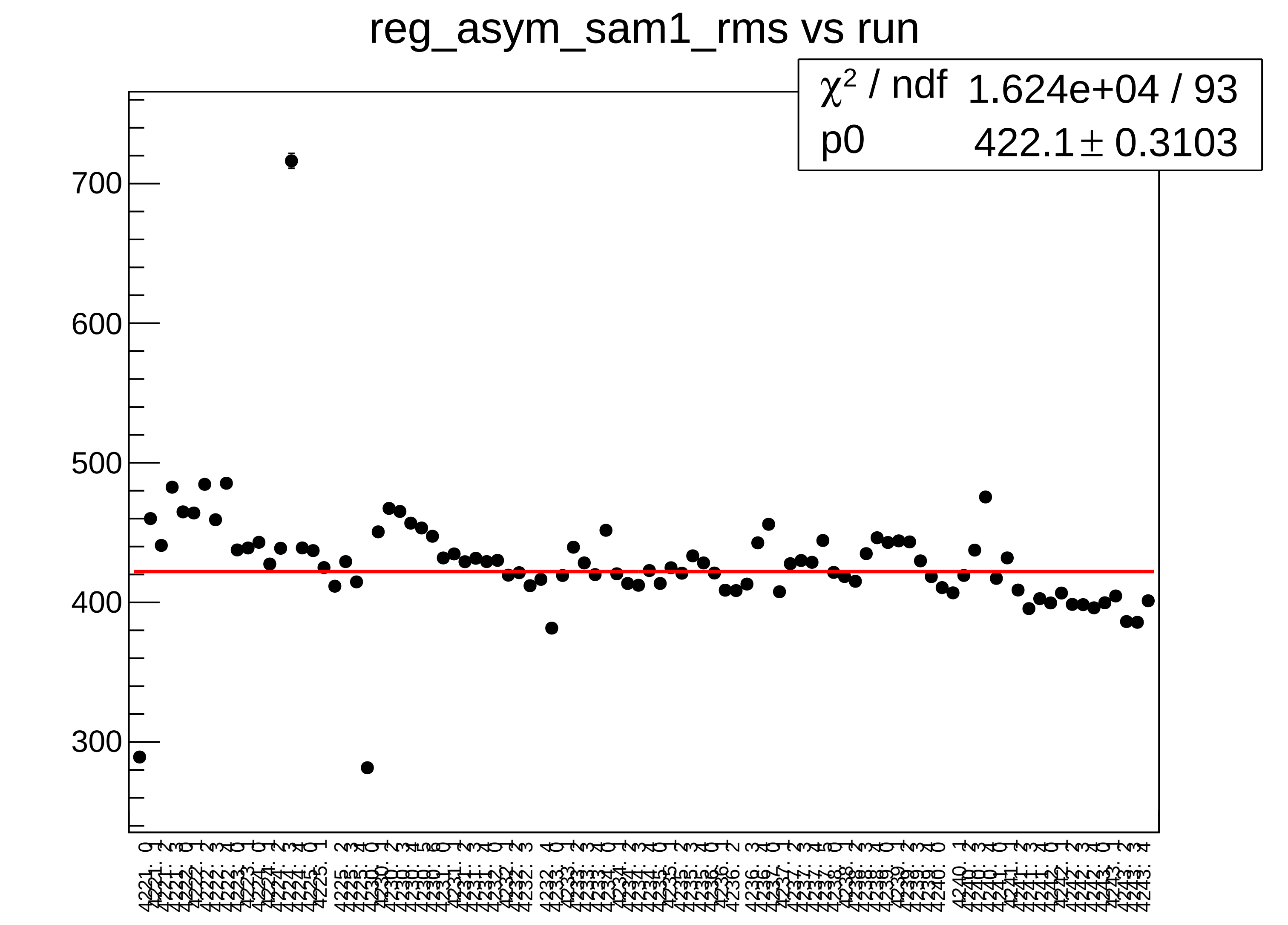
cor_sam8_mean vs run
χ^2 / ndf 117.6 / 93
p0 −515.7 ± 1779
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 124.7
Std Dev 44.43
pull1D
Entries 94
Mean 0.01038
Std Dev 1.119



cor_sam8_rms vs run
χ^2 / ndf 6946 / 93
p0 1716 ± 1.258
2200
2000
1800
1600
1400

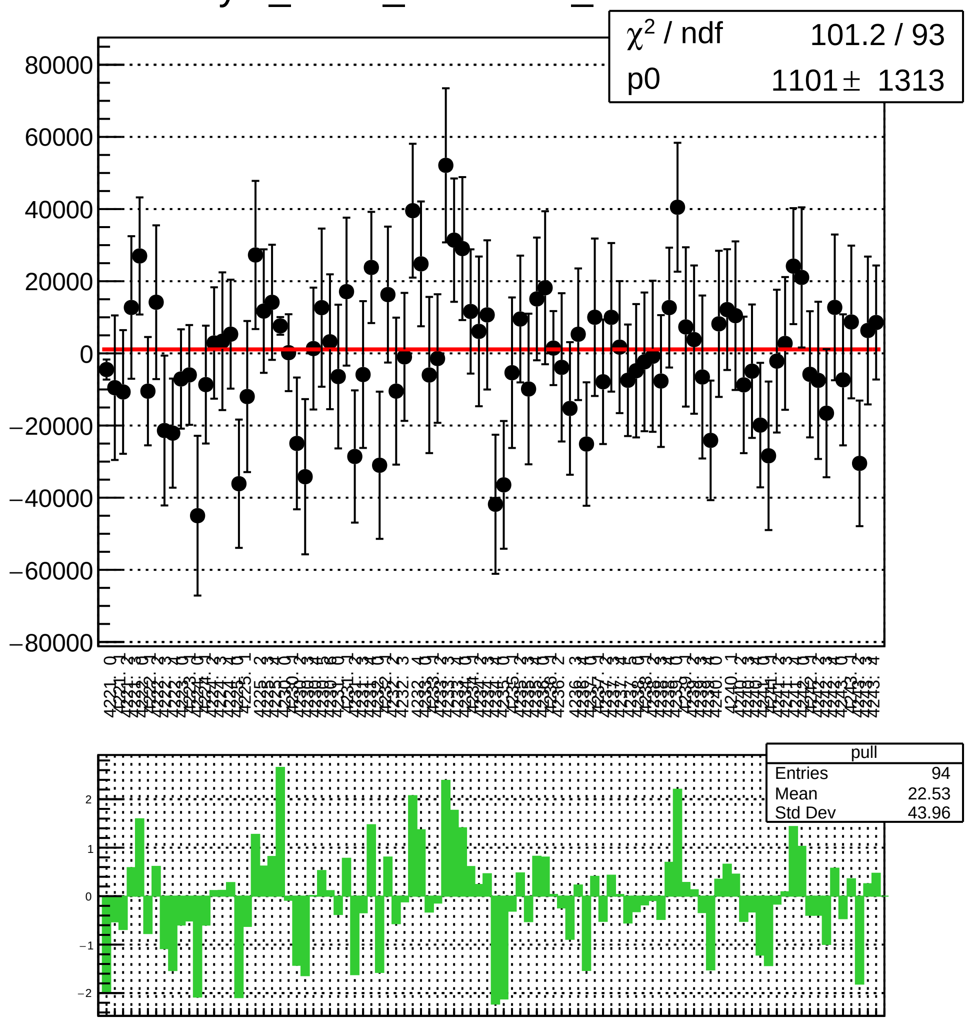


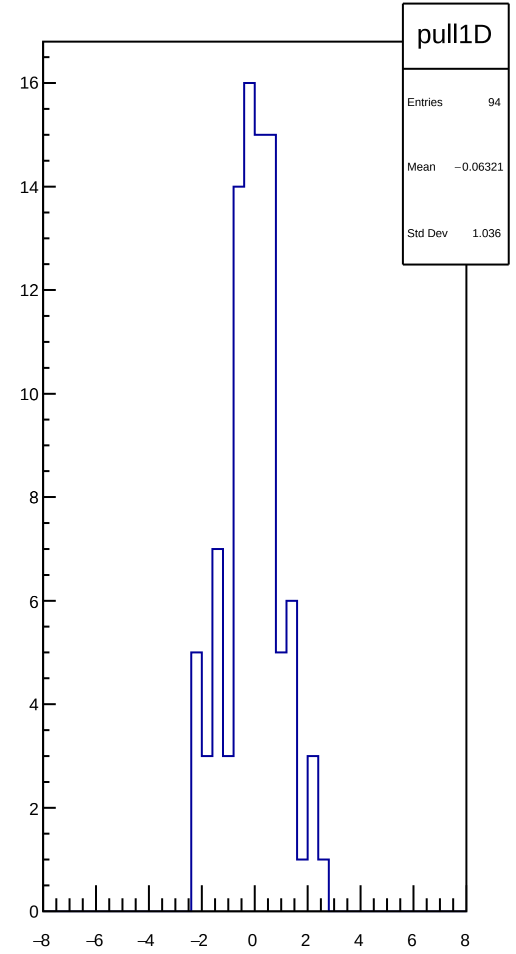
reg_asym_sam1_mean vs run
χ^2 / ndf 103.1 / 93
p0 −348.6 ± 438.9
pull
Entries 94
Mean 624.3
Std Dev 577.2
pull1D
Entries 94
Mean 0.01758
Std Dev 1.047

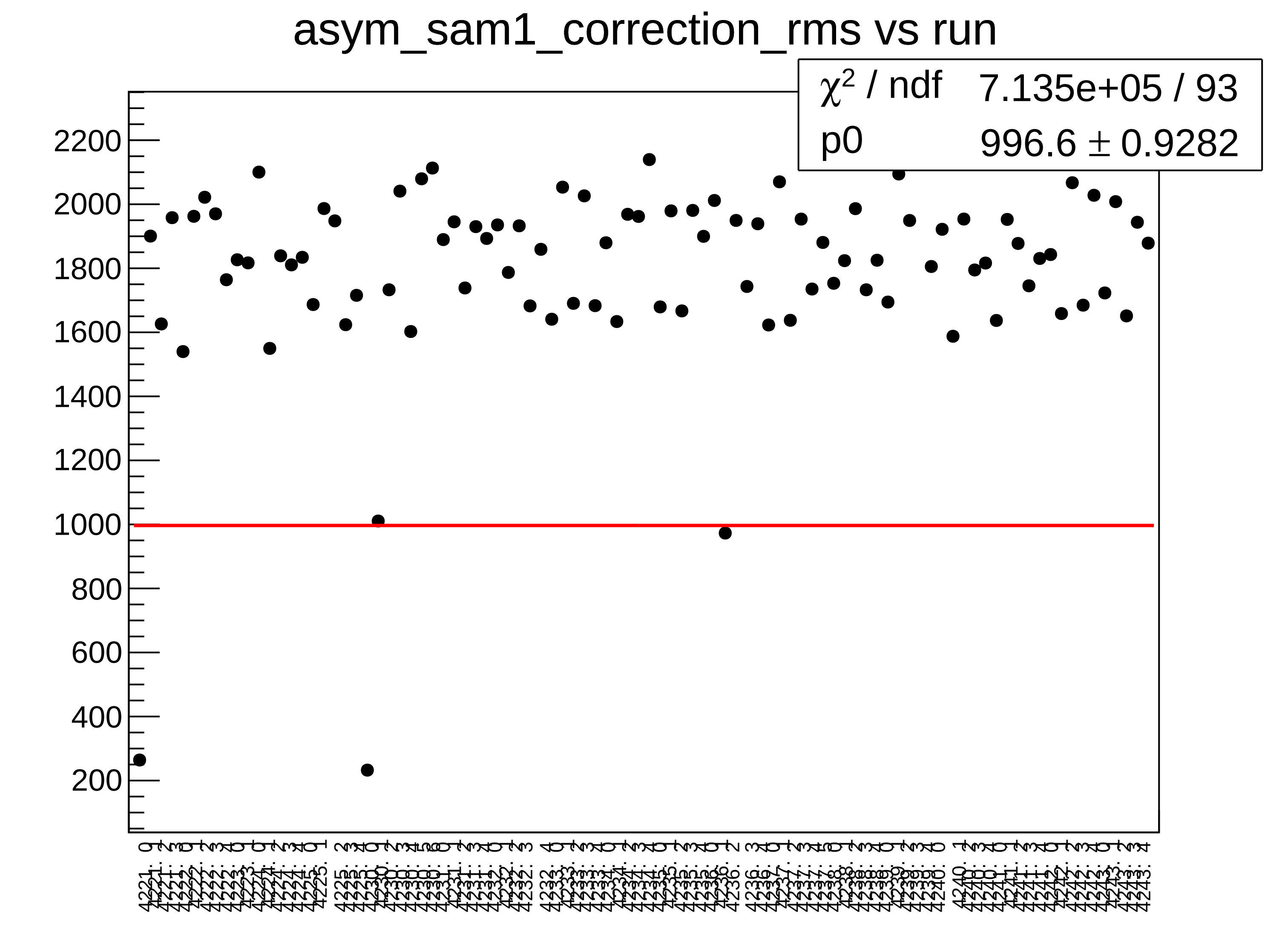


reg_asym_sam1_rms vs run
χ2 / ndf 1.624e+04 / 93
p0 422.1 ± 0.3103
700
600
500
400
300

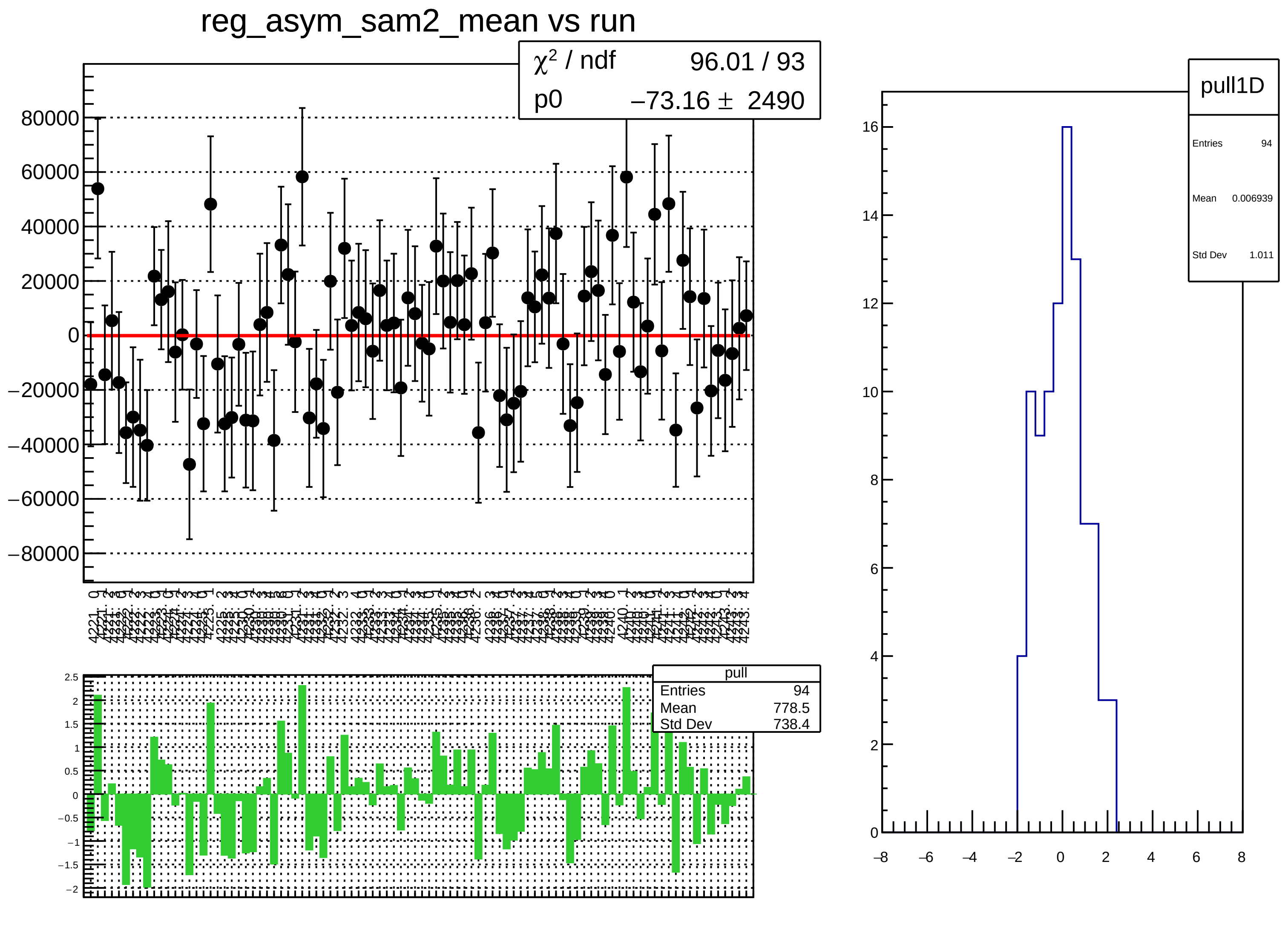
asym_sam1_correction_mean vs run



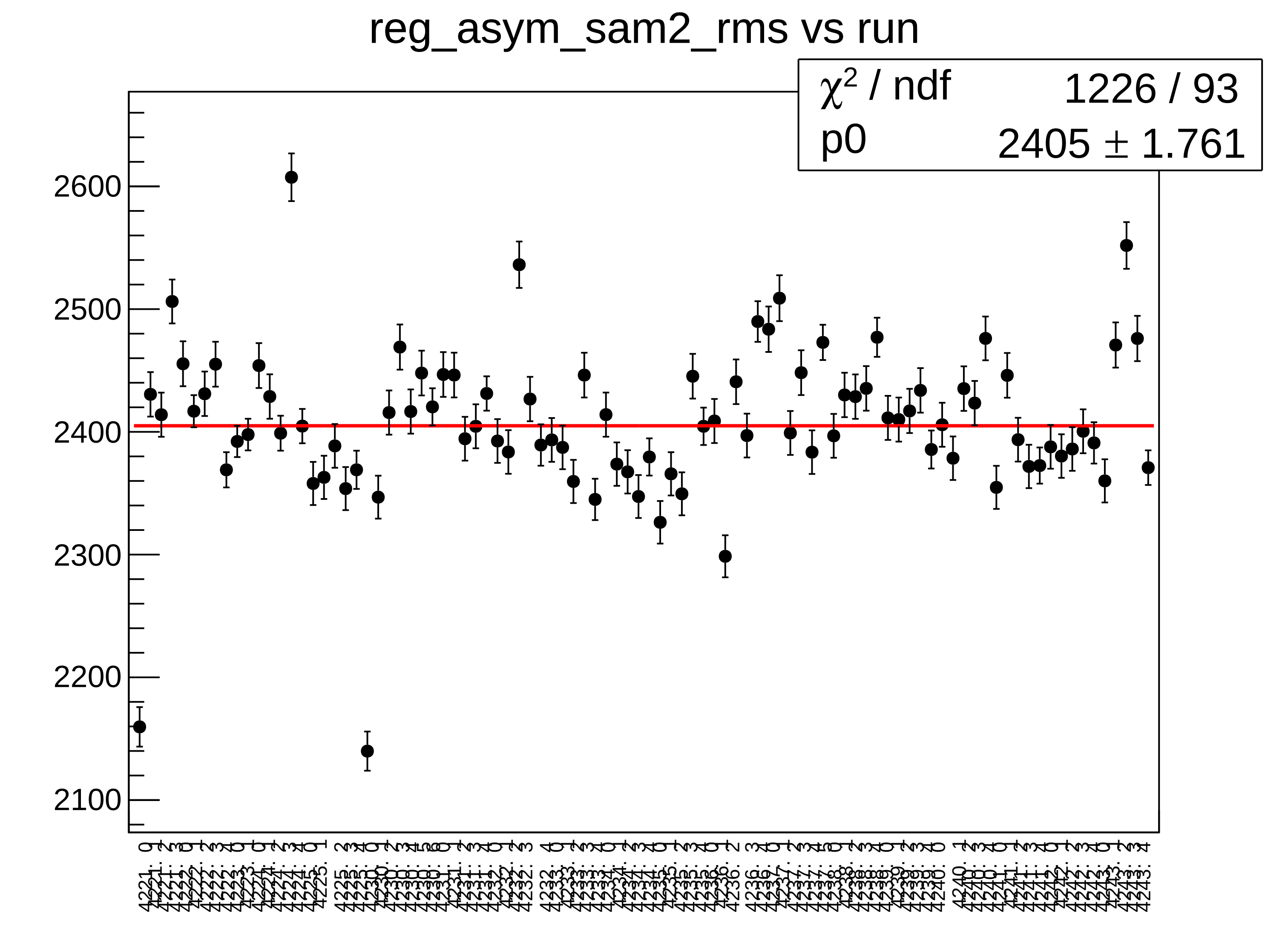




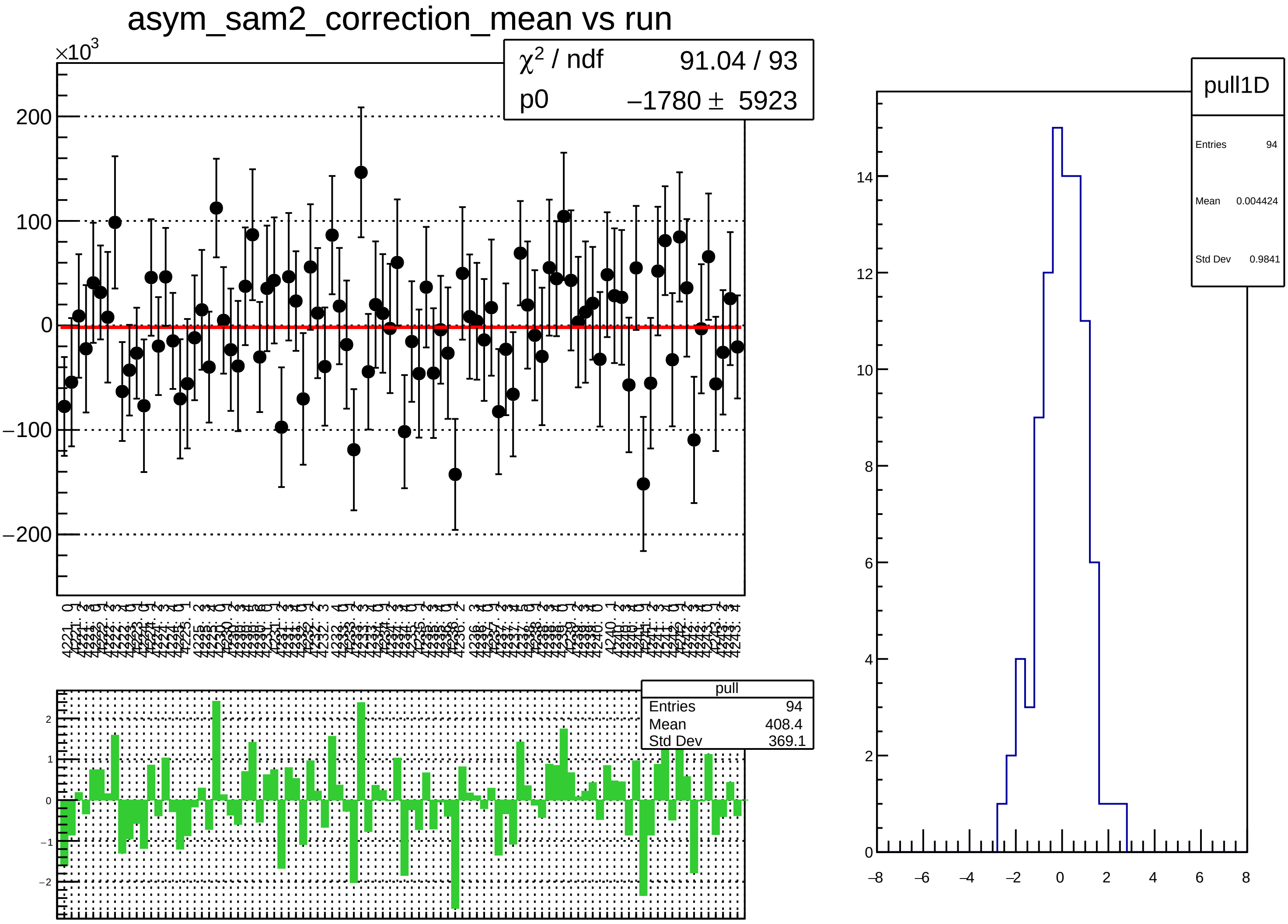
asym_sam1_correction_rms vs run
χ^2 / ndf 7.135e+05 / 93
p0 996.6 ± 0.9282
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

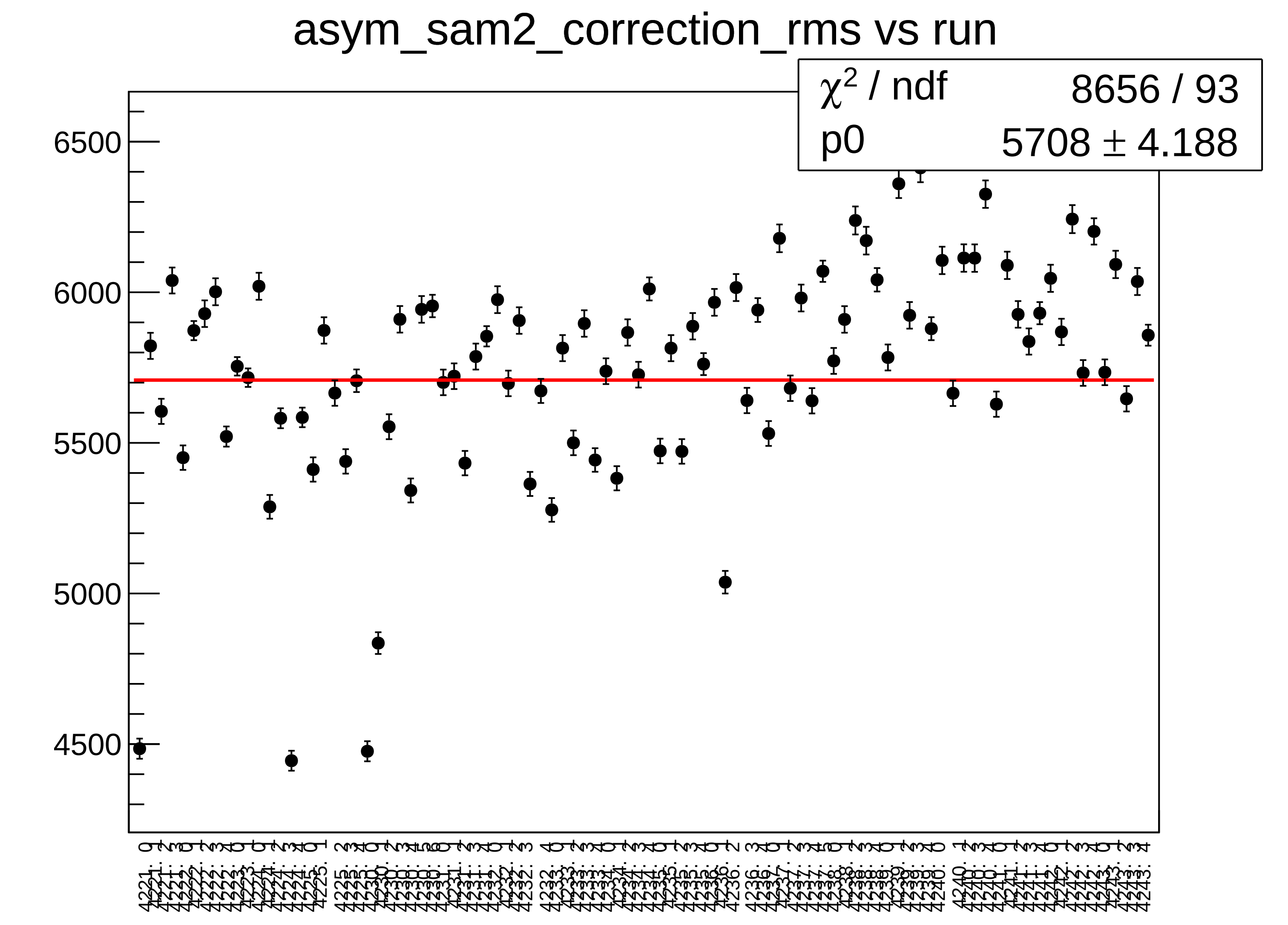


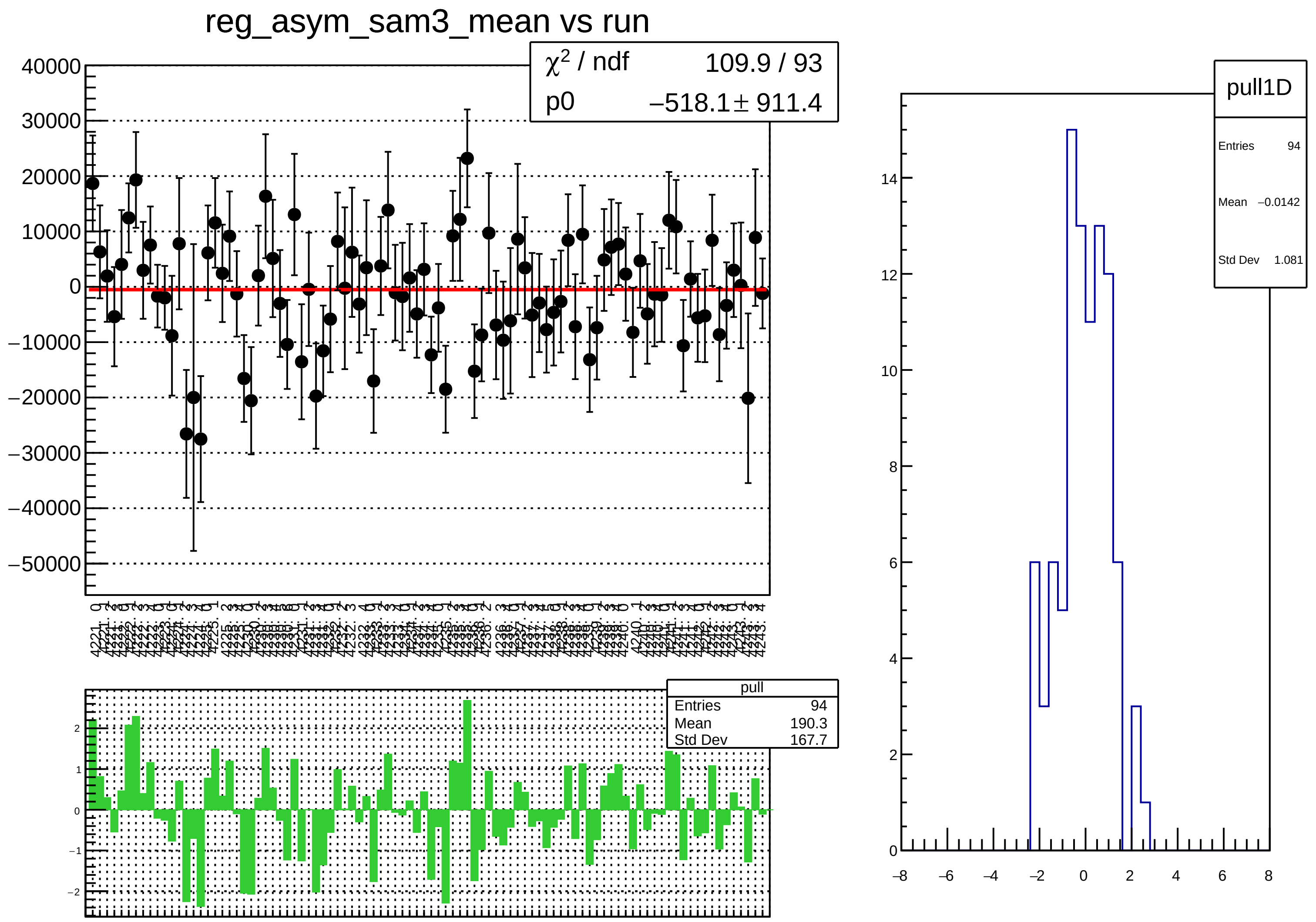
reg_asym_sam2_mean vs run
χ2 / ndf 96.01 / 93
p0 −73.16 ± 2490
pull
Entries 94
Mean 778.5
Std Dev 738.4
pull1D
Entries 94
Mean 0.006939
Std Dev 1.011



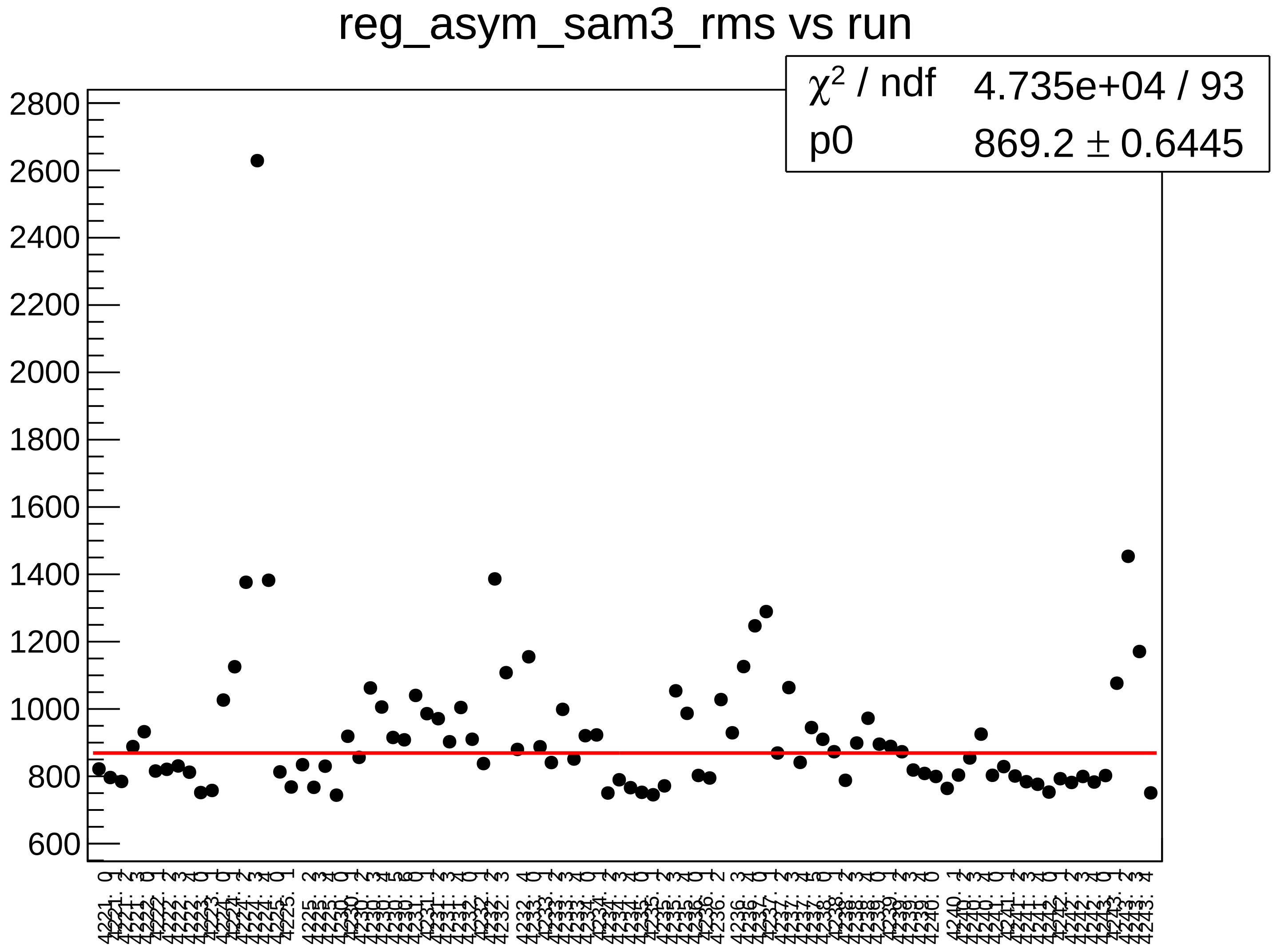
reg_asym_sam2_rms vs run
χ2 / ndf 1226 / 93
p0 2405 ± 1.761
2600
2500
2400
2300
2200
2100


asym_sam2_correction_mean vs run
χ^2 / ndf 91.04 / 93
p0 −1780 ± 5923
×10³
200
100
0
−100
−200
pull
Entries 94
Mean 408.4
Std Dev 369.1
pull1D
Entries 94
Mean 0.004424
Std Dev 0.9841

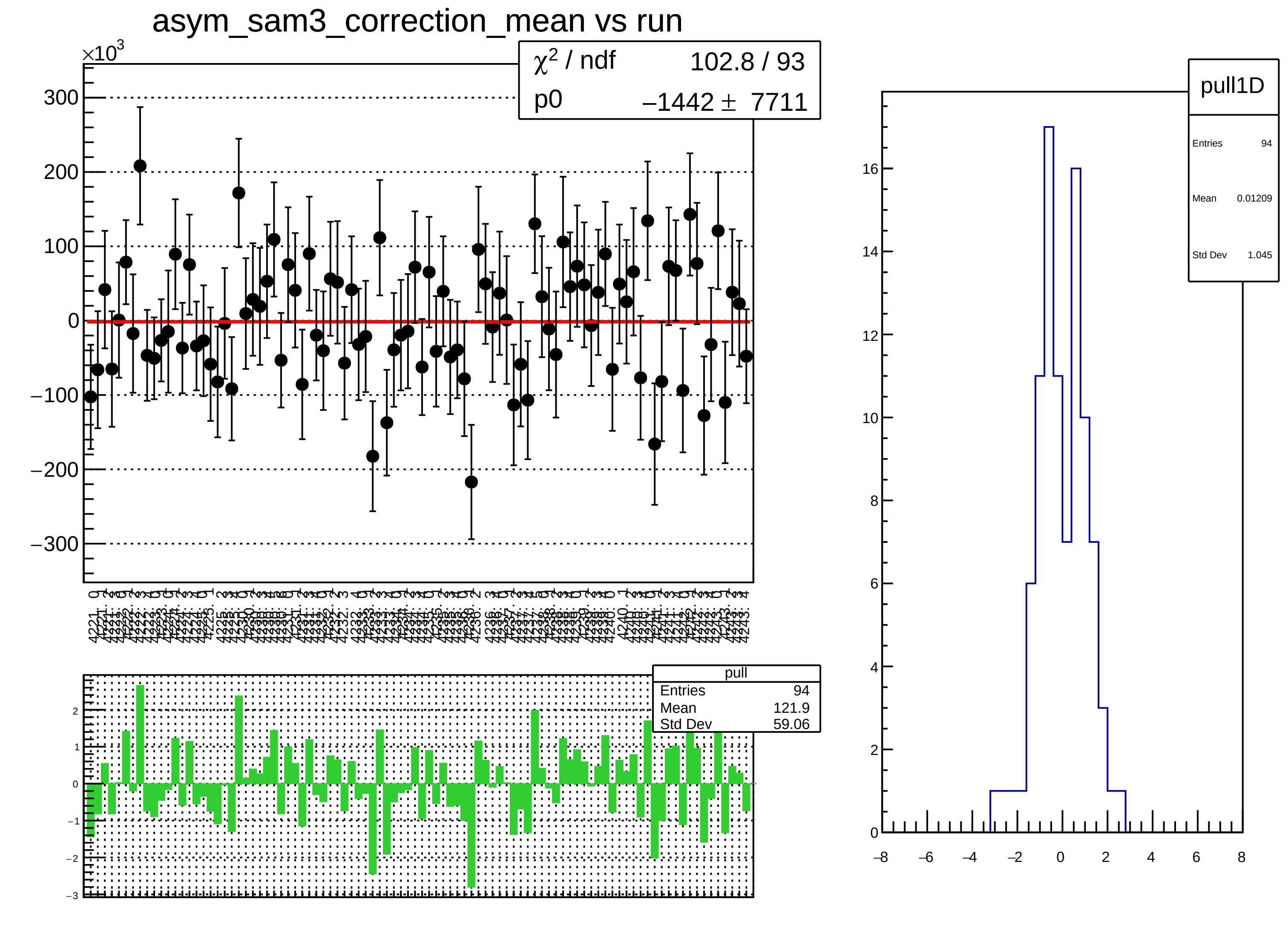

asym_sam2_correction_rms vs run
χ^2 / ndf 8656 / 93
p0 5708 ± 4.188
6500
6000
5500
5000
4500

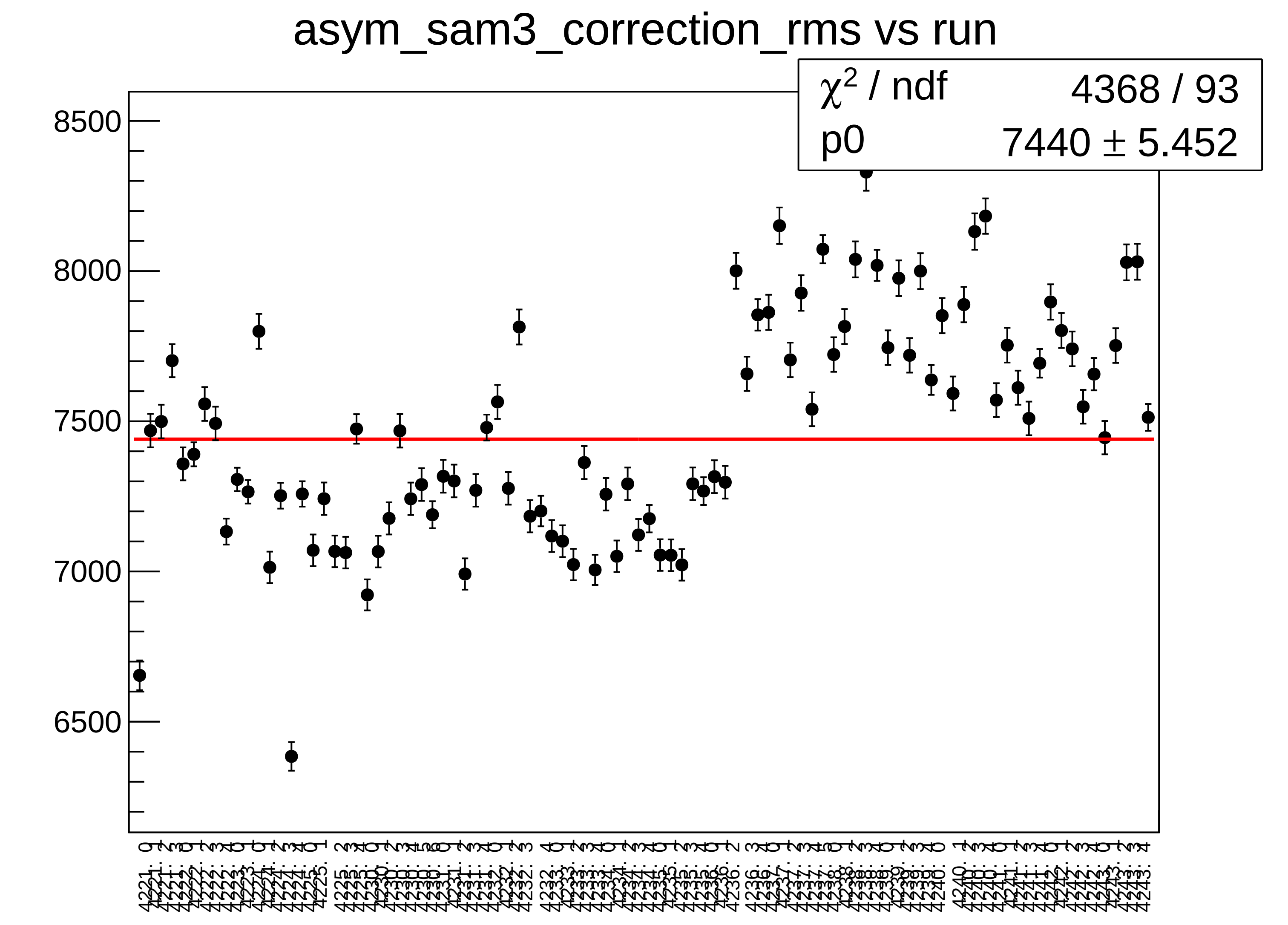


reg_asym_sam3_mean vs run
χ2 / ndf 109.9 / 93
p0 −518.1 ± 911.4
pull
Entries 94
Mean 190.3
Std Dev 167.7
pull1D
Entries 94
Mean −0.0142
Std Dev 1.081

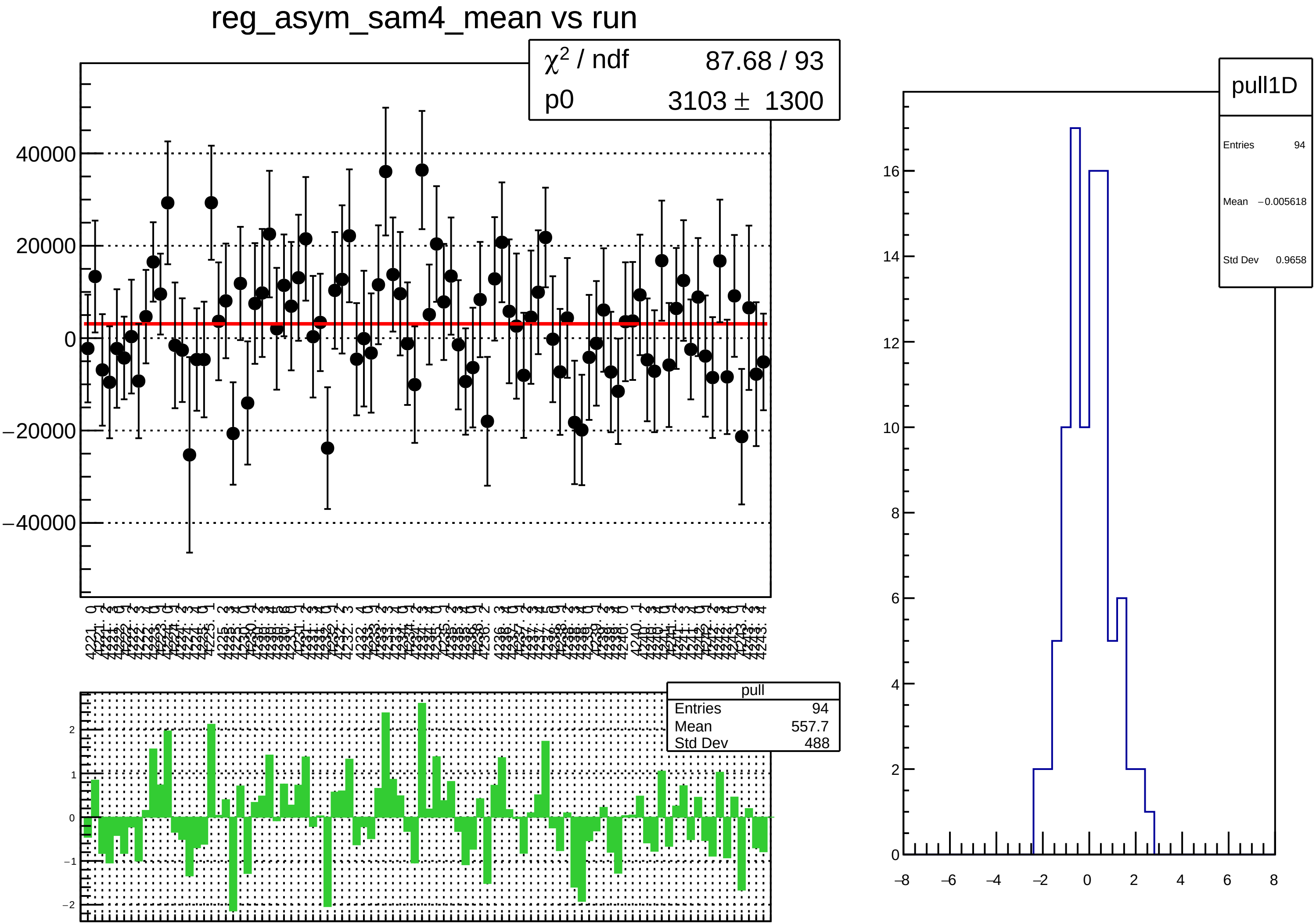


reg_asym_sam3_rms vs run
χ² / ndf 4.735e+04 / 93
p0 869.2 ± 0.6445
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600

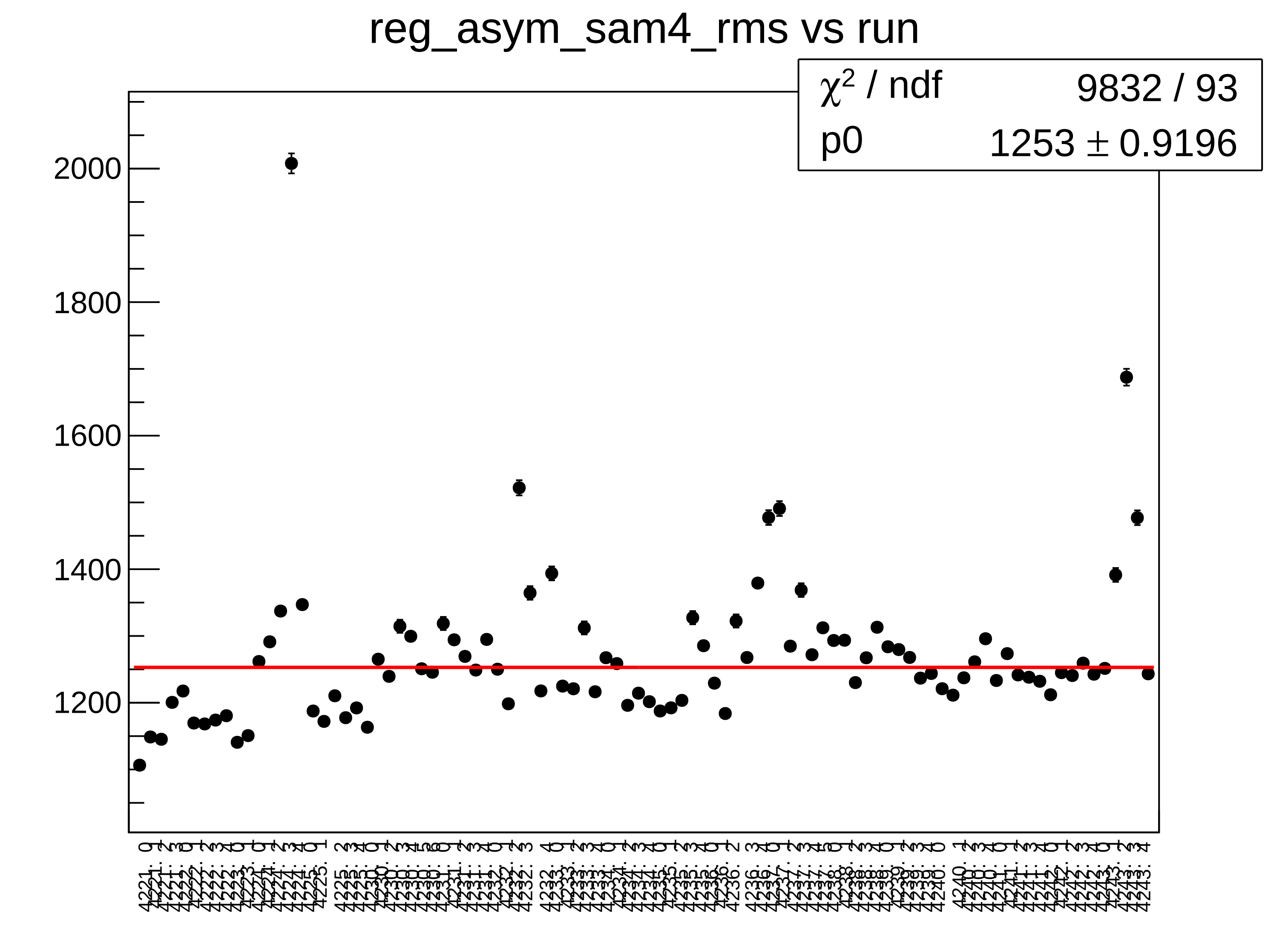

asym_sam3_correction_mean vs run
×10^3
χ2 / ndf 102.8 / 93
p0 −1442 ± 7711
pull
Entries 94
Mean 121.9
Std Dev 59.06
pull1D
Entries 94
Mean 0.01209
Std Dev 1.045



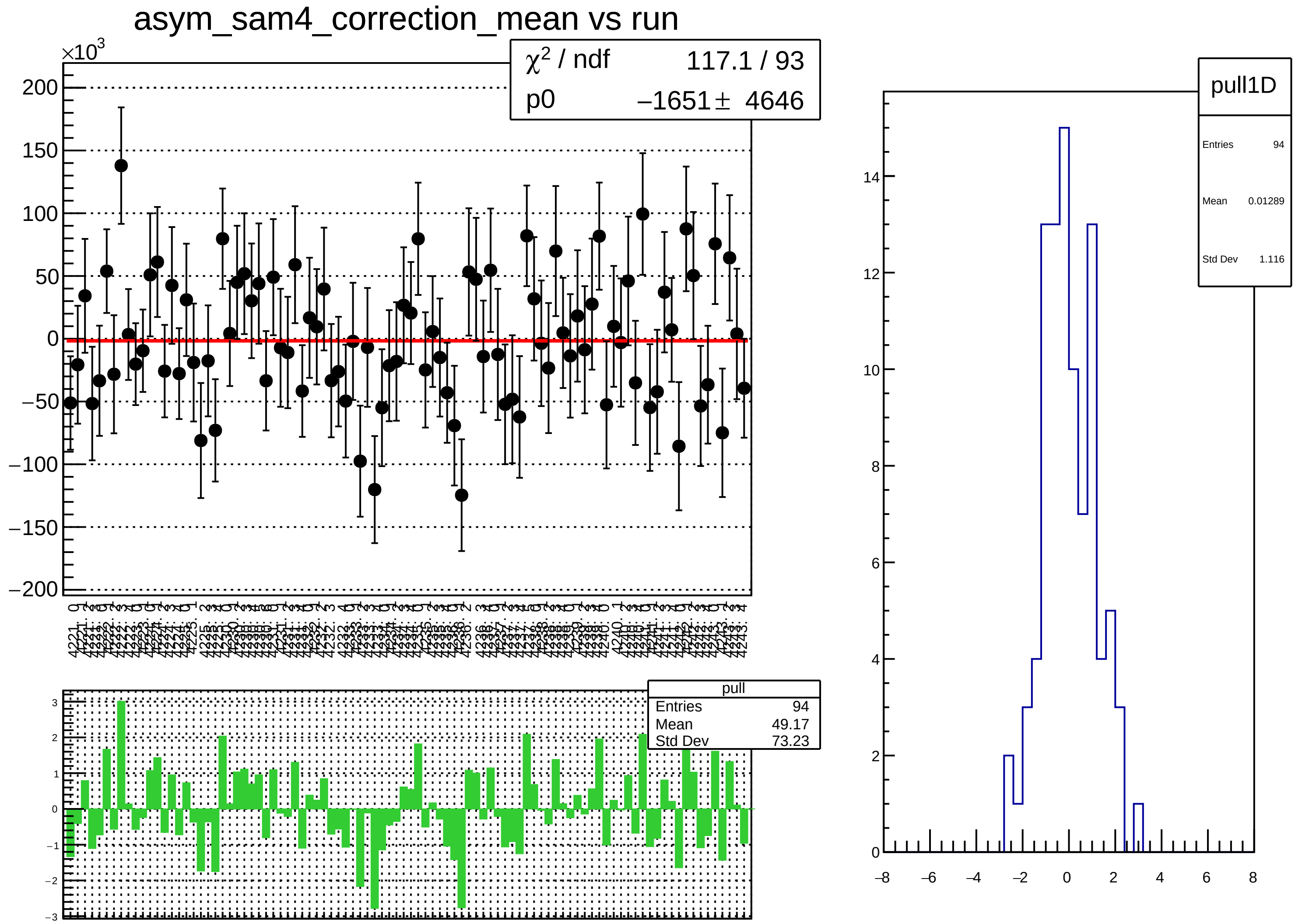
asym_sam3_correction_rms vs run
χ2 / ndf 4368 / 93
p0 7440 ± 5.452
8500
8000
7500
7000
6500



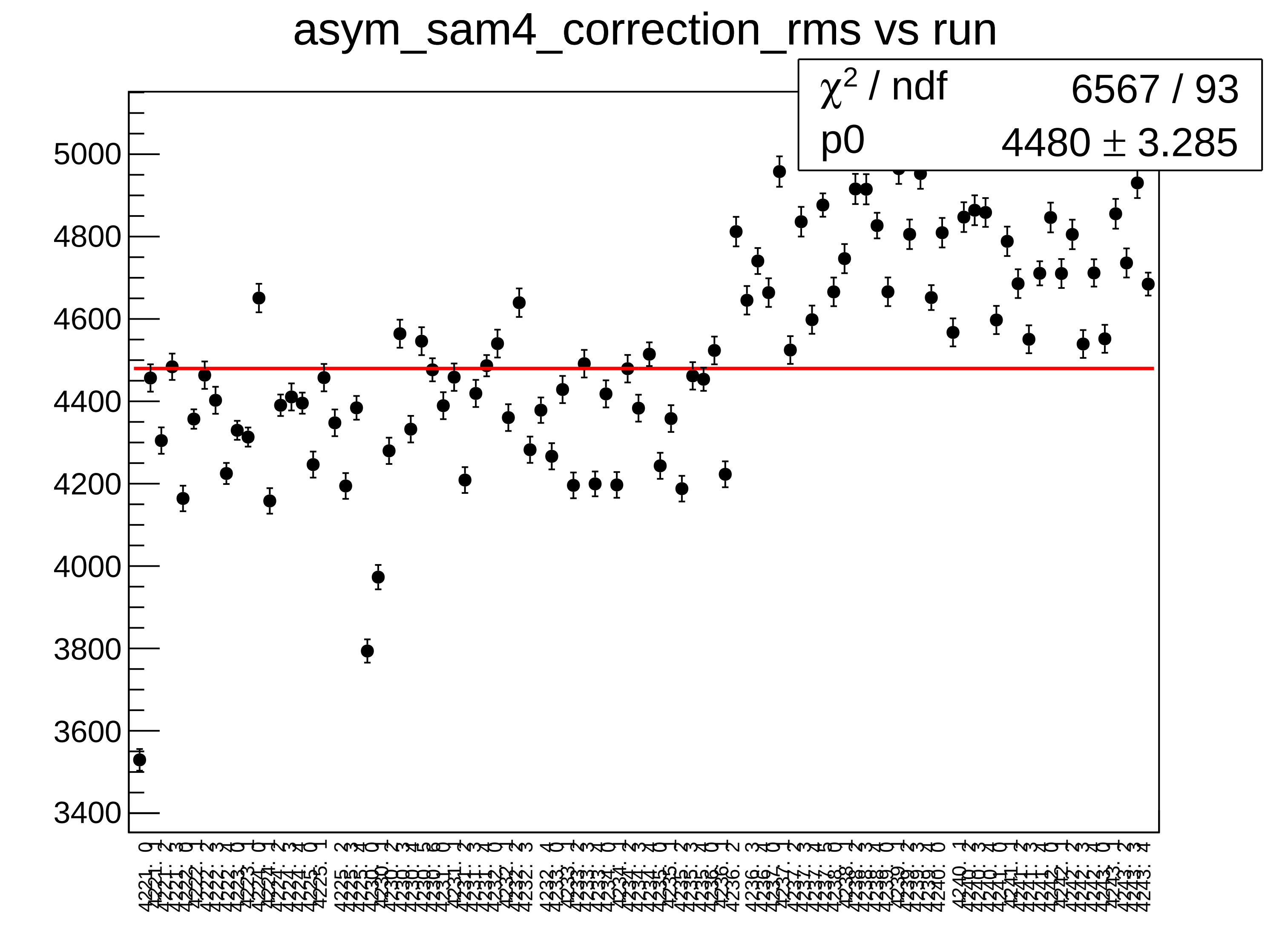
reg_asym_sam4_mean vs run
χ^2 / ndf 87.68 / 93
p0 3103 ± 1300
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 557.7
Std Dev 488
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005618
Std Dev 0.9658
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

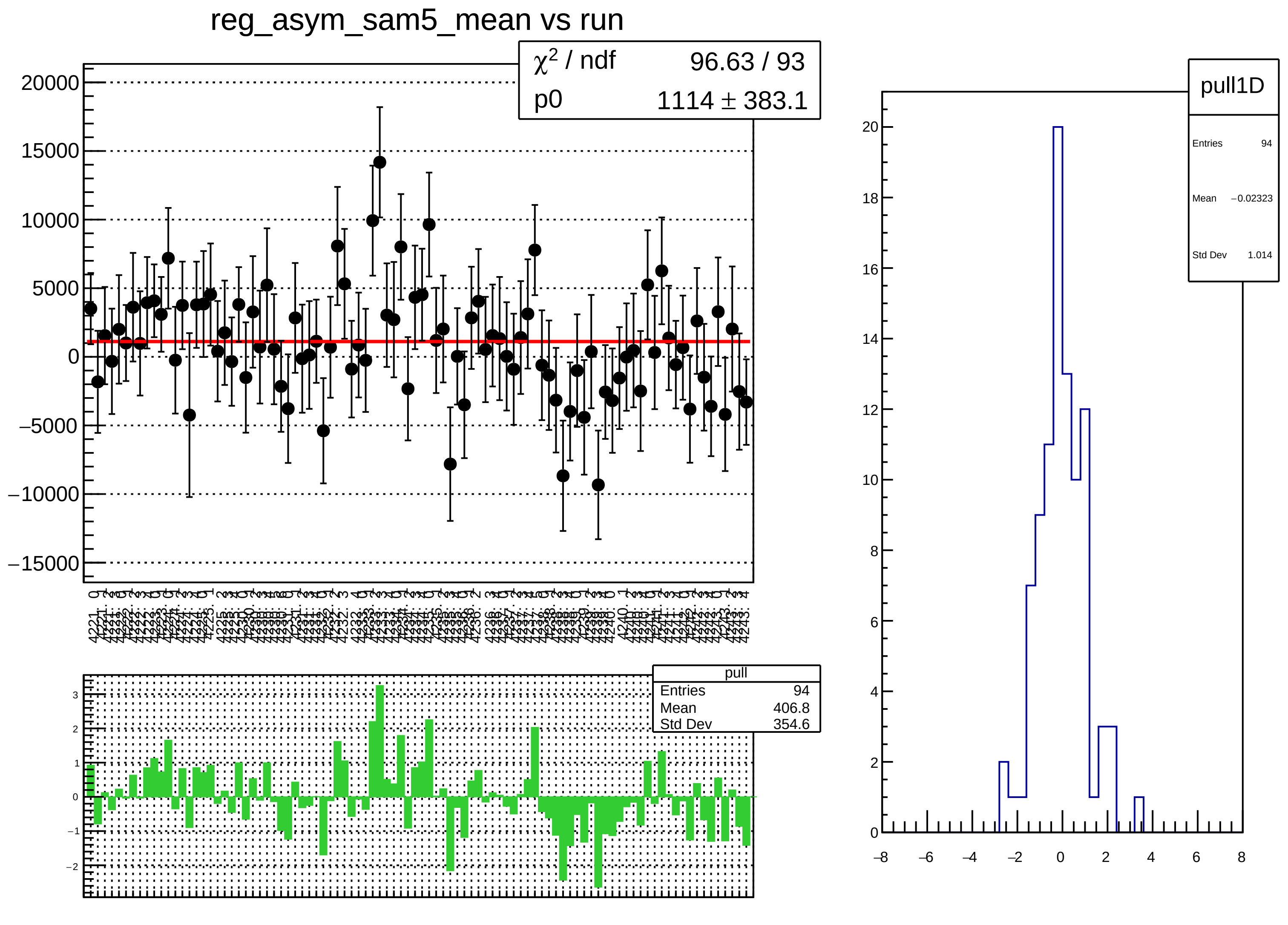


reg_asym_sam4_rms vs run
χ2 / ndf 9832 / 93
p0 1253 ± 0.9196
2000
1800
1600
1400
1200



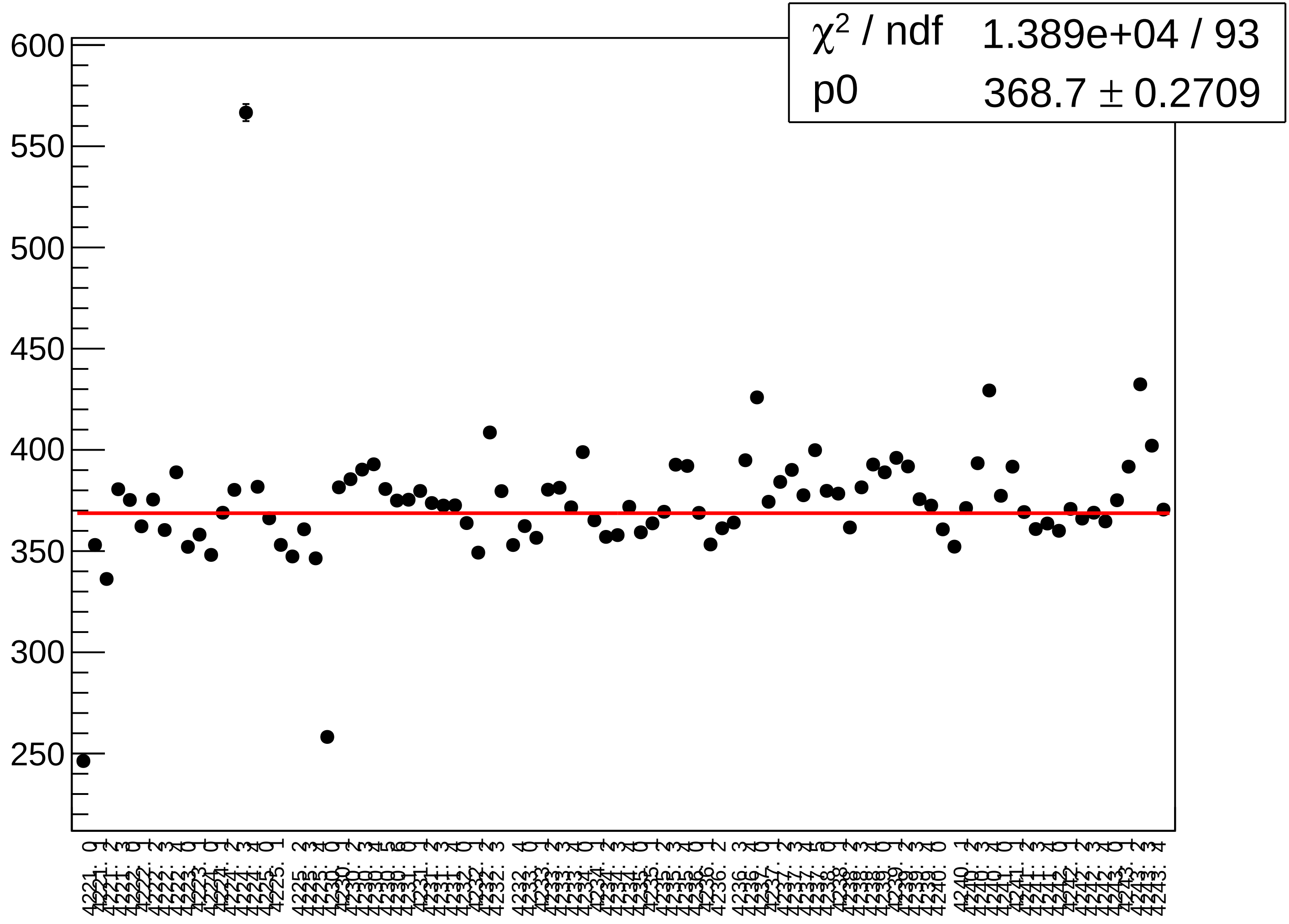
asym_sam4_correction_mean vs run
×10^3
χ2 / ndf 117.1 / 93
p0 −1651 ± 4646
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 49.17
Std Dev 73.23
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01289
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

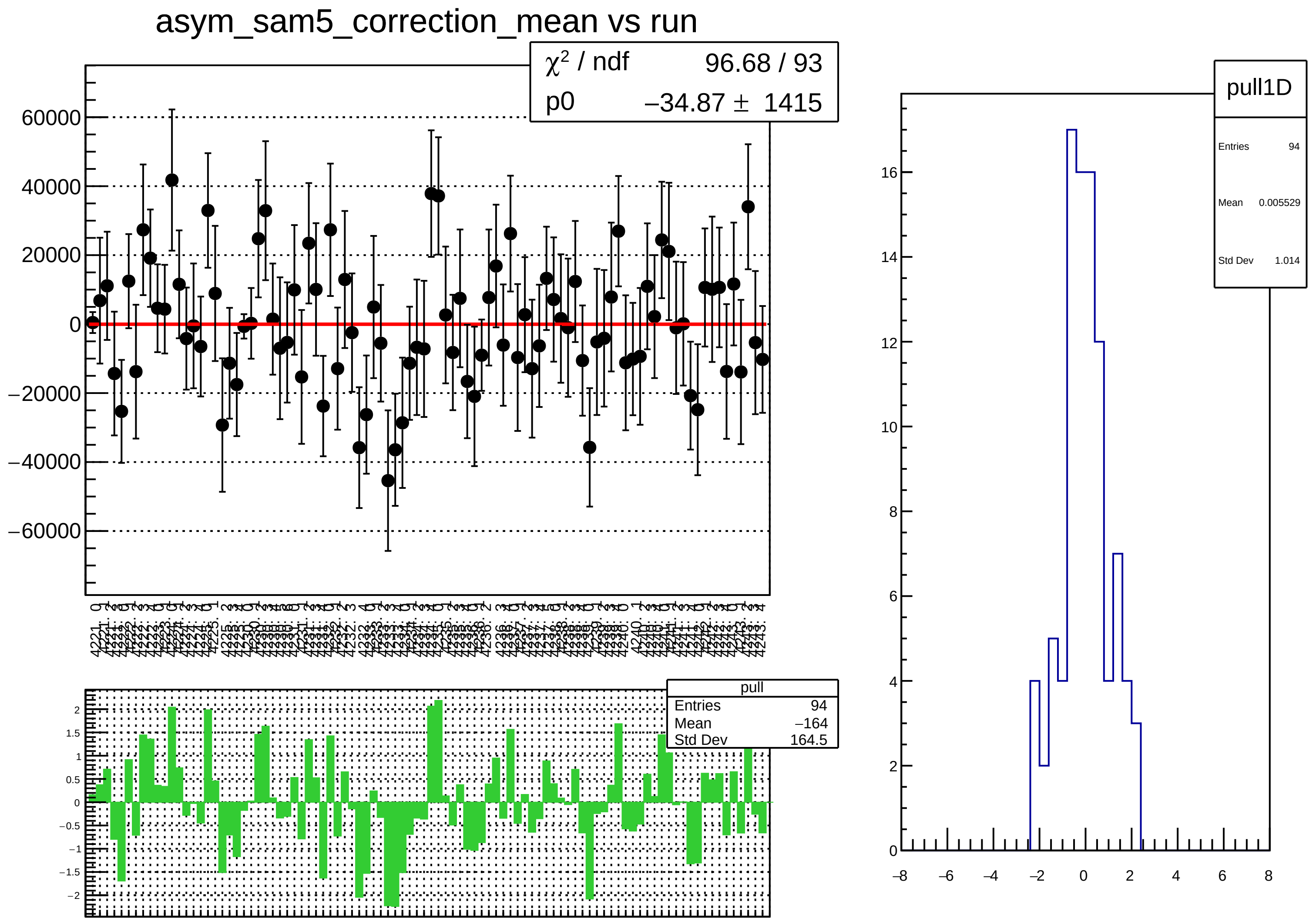

asym_sam4_correction_rms vs run
χ2 / ndf 6567 / 93
p0 4480 ± 3.285
5000
4800
4600
4400
4200
4000
3800
3600
3400

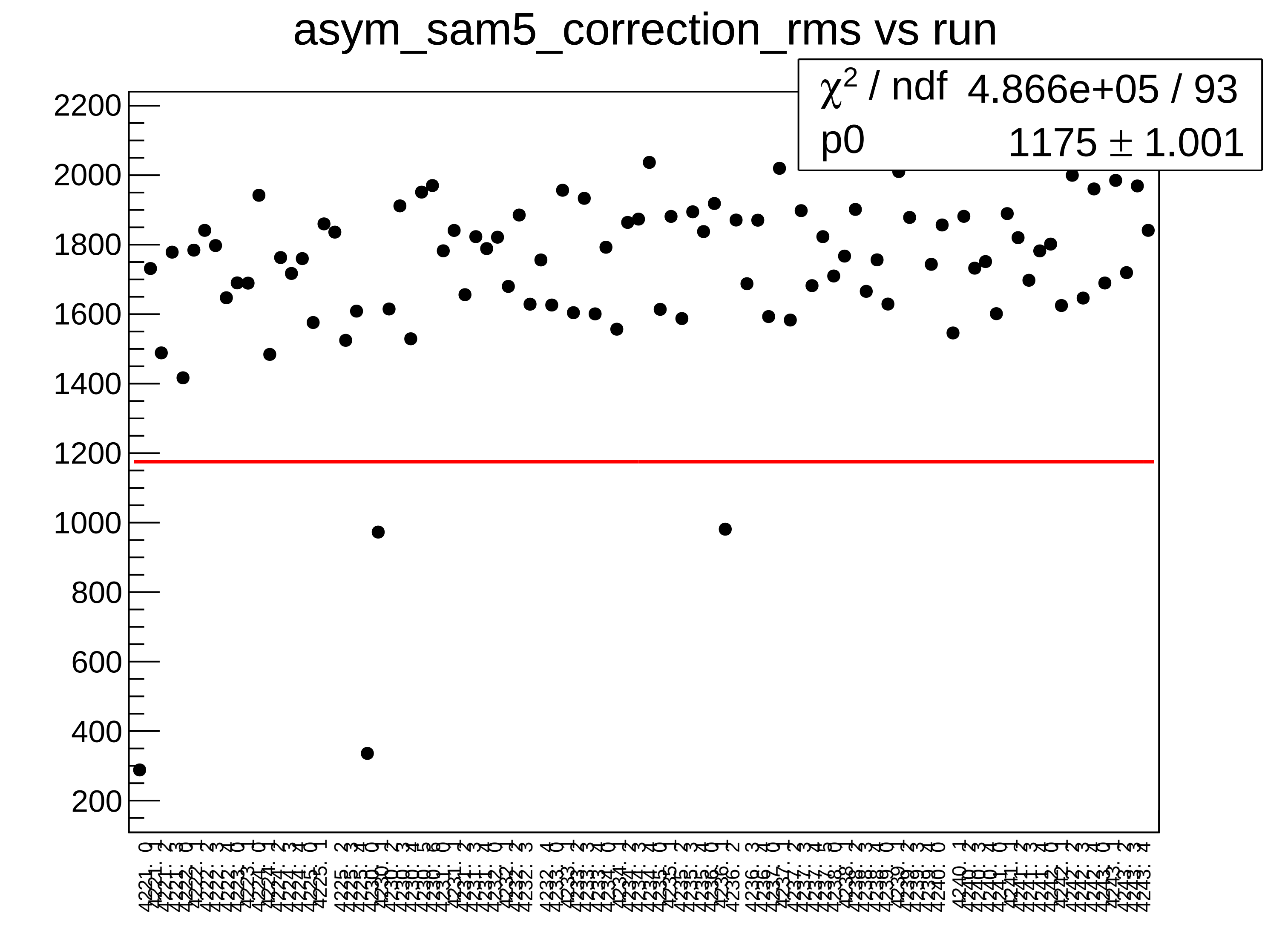


reg_asym_sam5_mean vs run
χ^2 / ndf 96.63 / 93
p0 1114 ± 383.1
pull
Entries 94
Mean 406.8
Std Dev 354.6
pull1D
Entries 94
Mean −0.02323
Std Dev 1.014

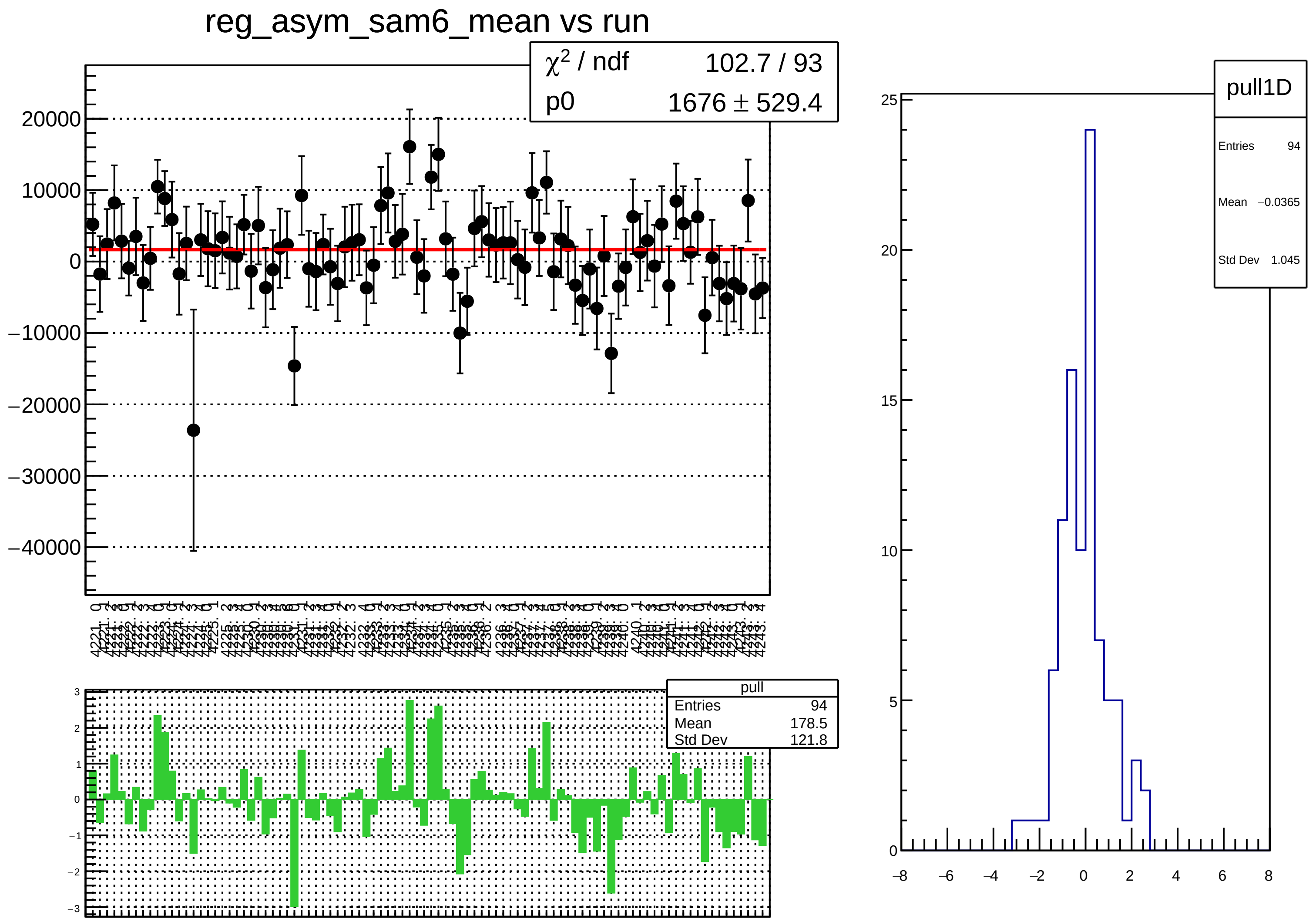
reg_asym_sam5_rms vs run



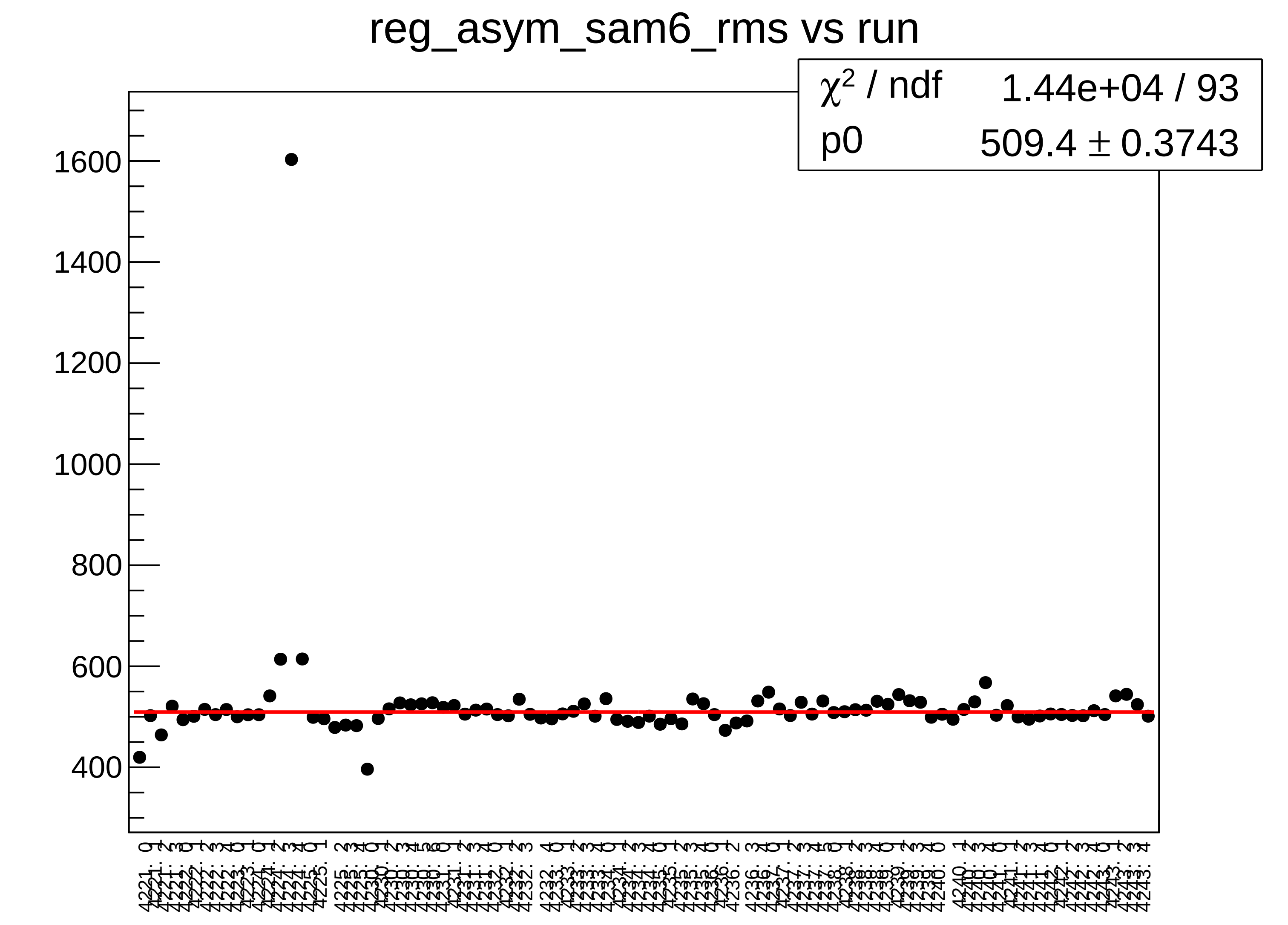

asym_sam5_correction_mean vs run
χ^2 / ndf 96.68 / 93
p0 −34.87 ± 1415
pull
Entries 94
Mean −164
Std Dev 164.5
pull1D
Entries 94
Mean 0.005529
Std Dev 1.014

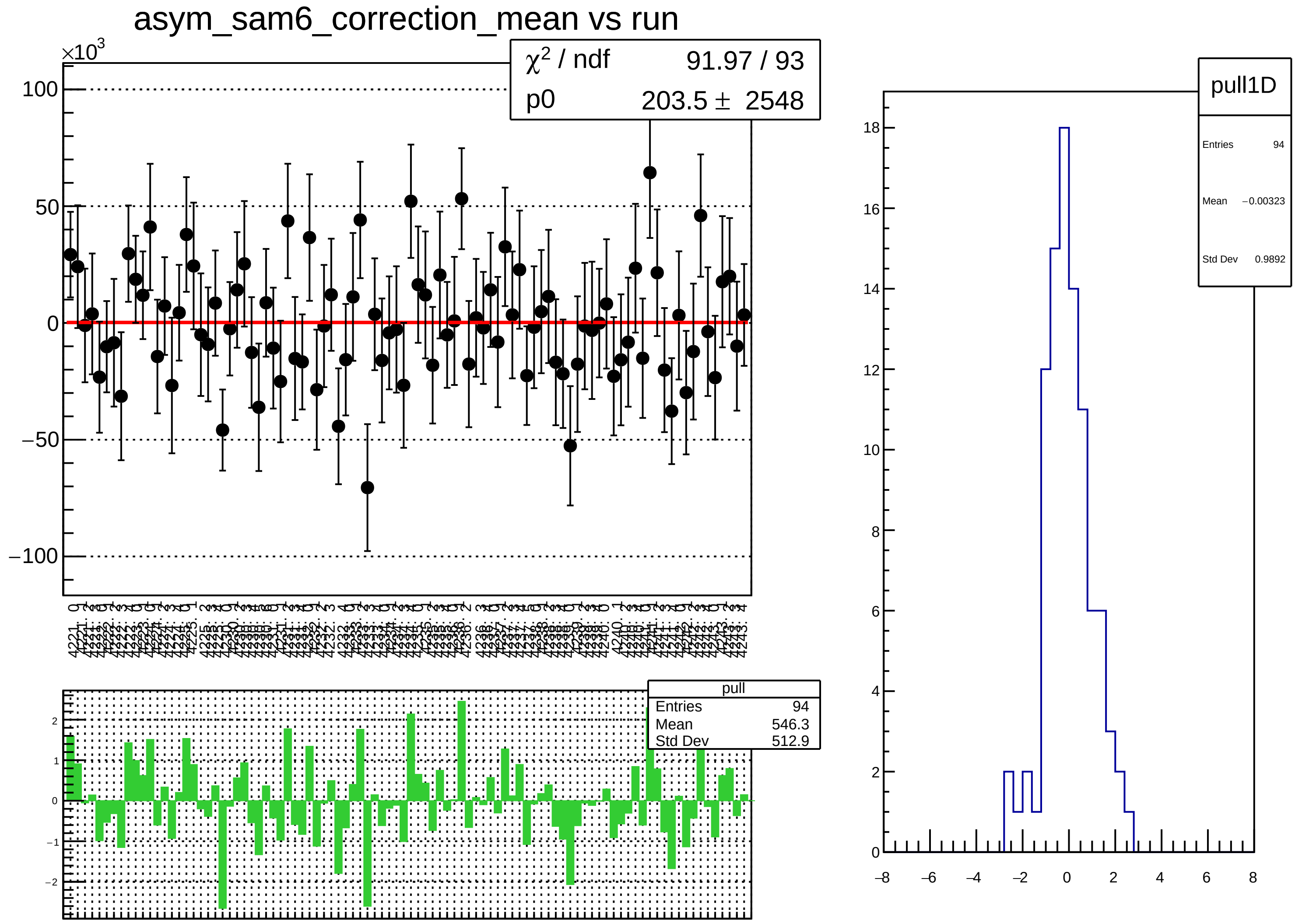


asym_sam5_correction_rms vs run
χ^2 / ndf 4.866e+05 / 93
p0 1175 ± 1.001

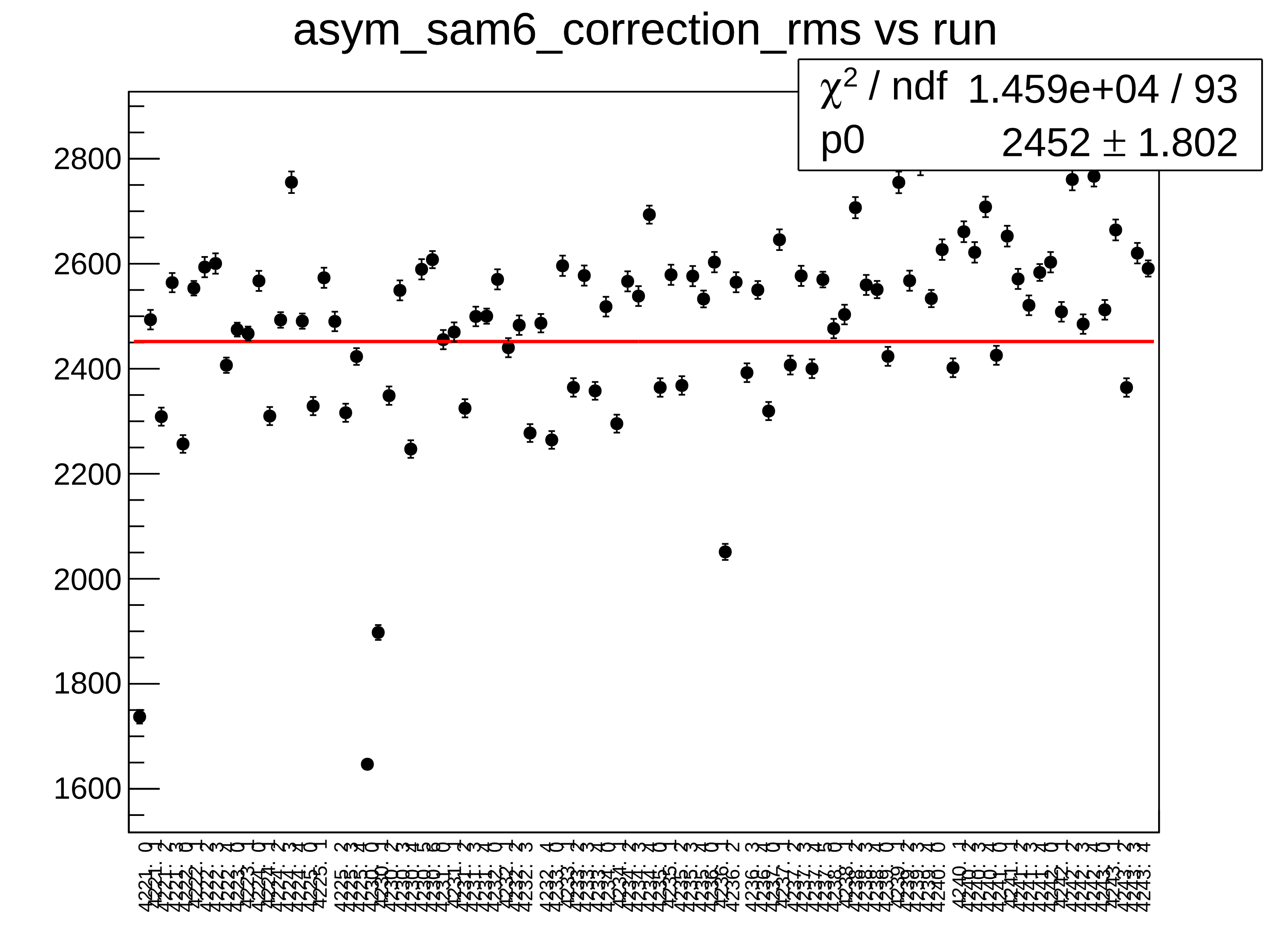


reg_asym_sam6_mean vs run
χ^2 / ndf 102.7 / 93
p0 1676 ± 529.4
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 178.5
Std Dev 121.8
pull1D
Entries 94
Mean −0.0365
Std Dev 1.045

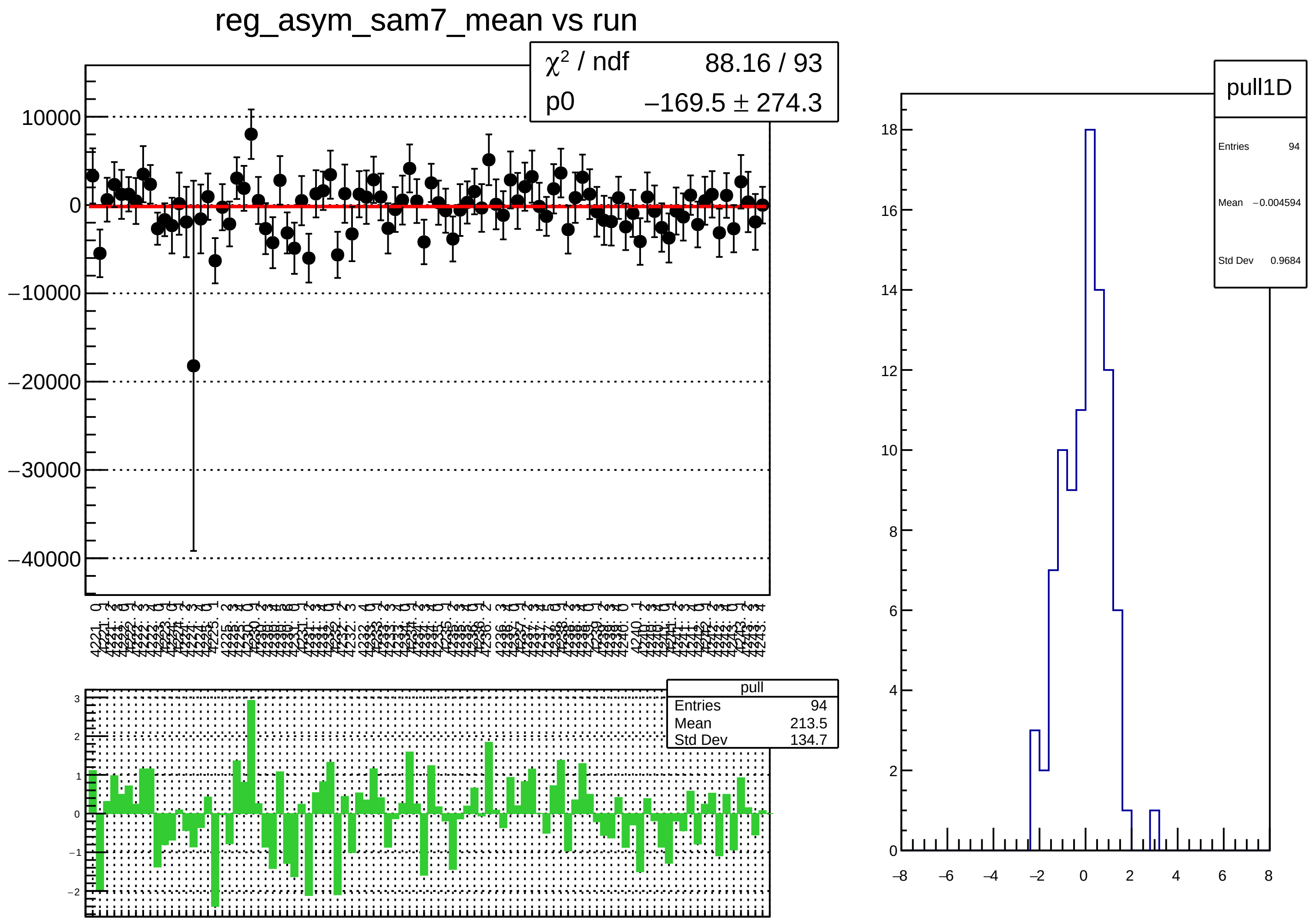

reg_asym_sam6_rms vs run
χ2 / ndf 1.44e+04 / 93
p0 509.4 ± 0.3743
1600
1400
1200
1000
800
600
400



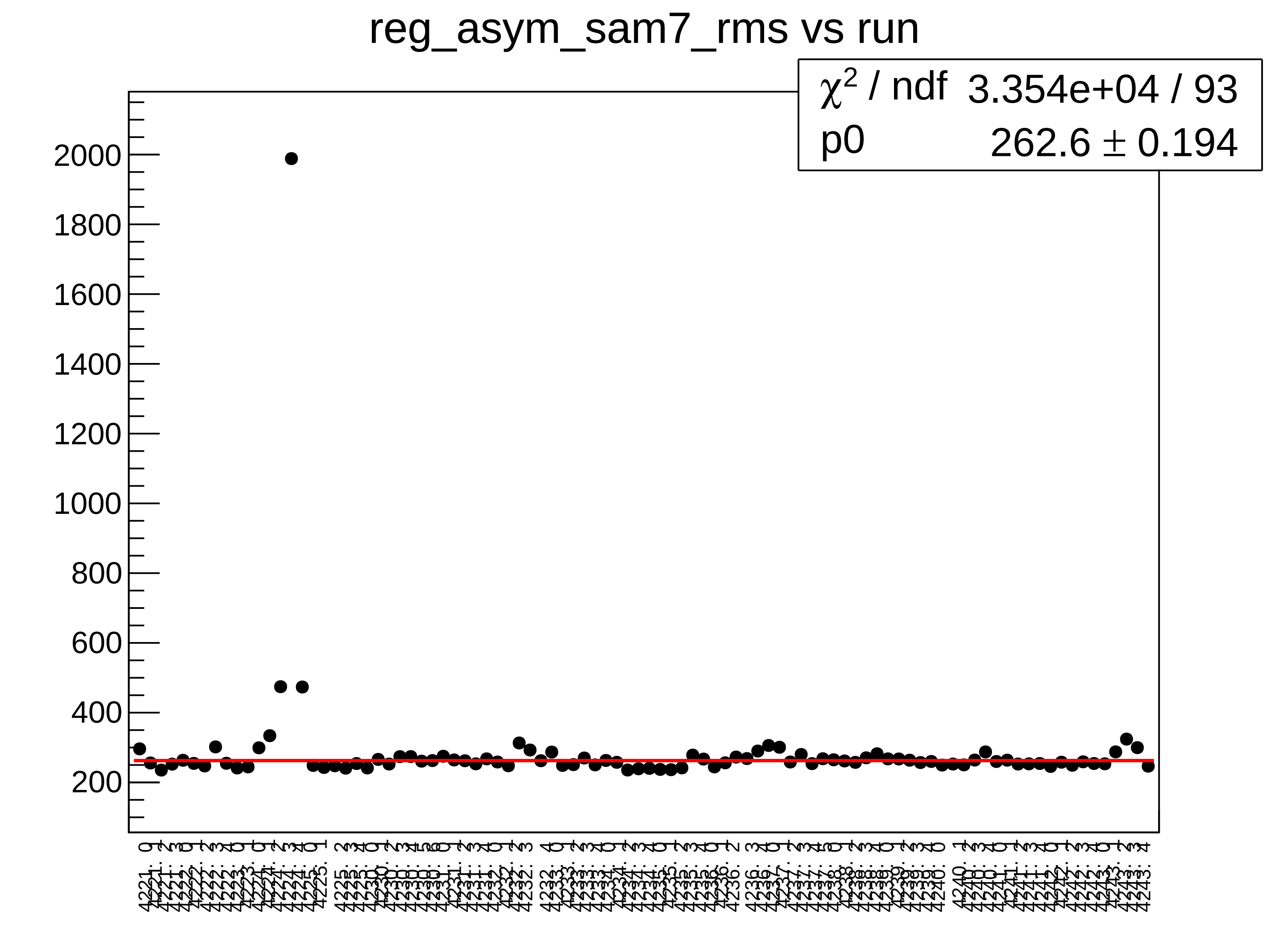
asym_sam6_correction_mean vs run
×10^3
χ^2 / ndf 91.97 / 93
p0 203.5 ± 2548
100
50
0
−50
−100
pull
Entries 94
Mean 546.3
Std Dev 512.9
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.00323
Std Dev 0.9892
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

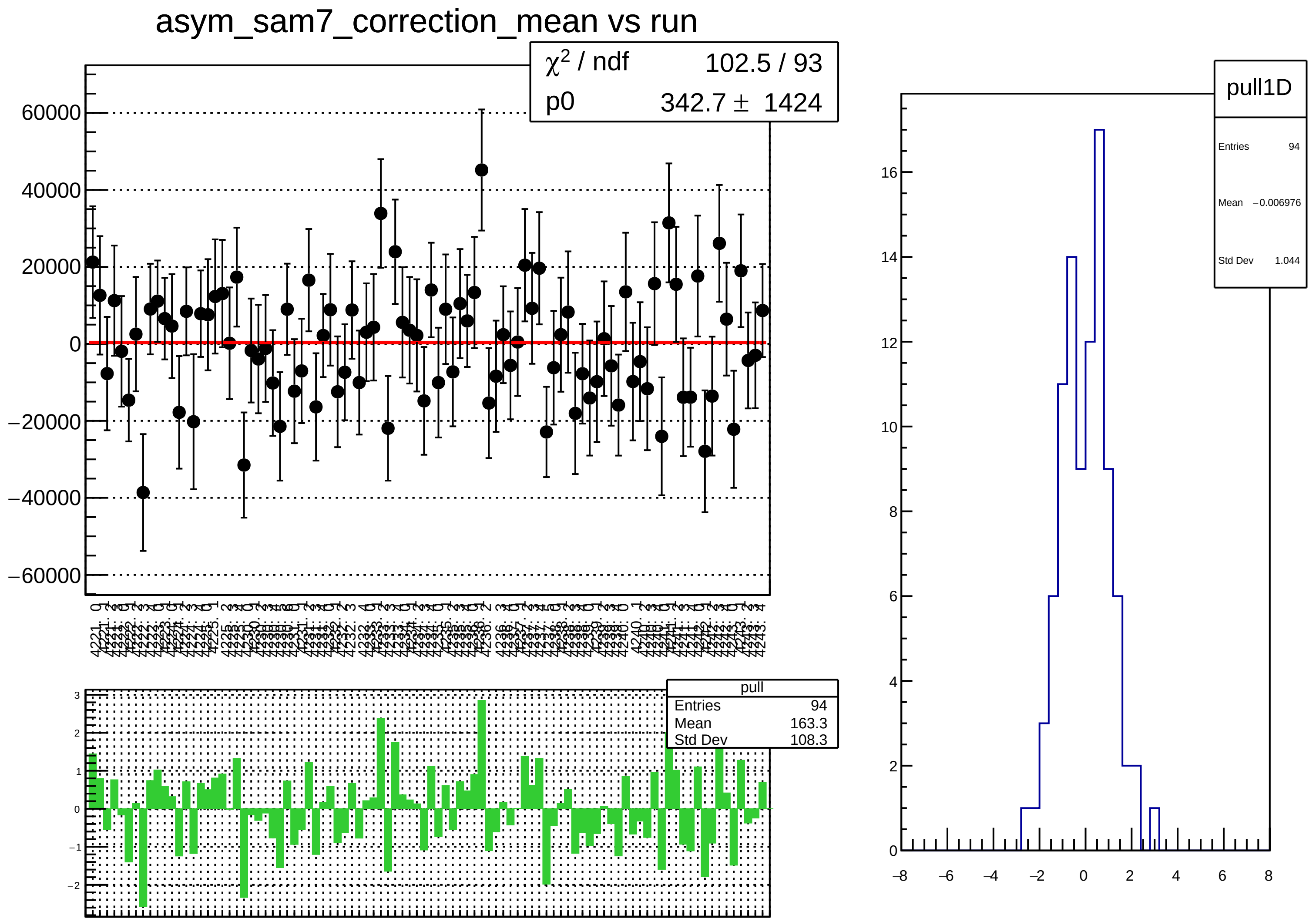


asym_sam6_correction_rms vs run
χ^2 / ndf 1.459e+04 / 93
p0 2452 ± 1.802
2800
2600
2400
2200
2000
1800
1600

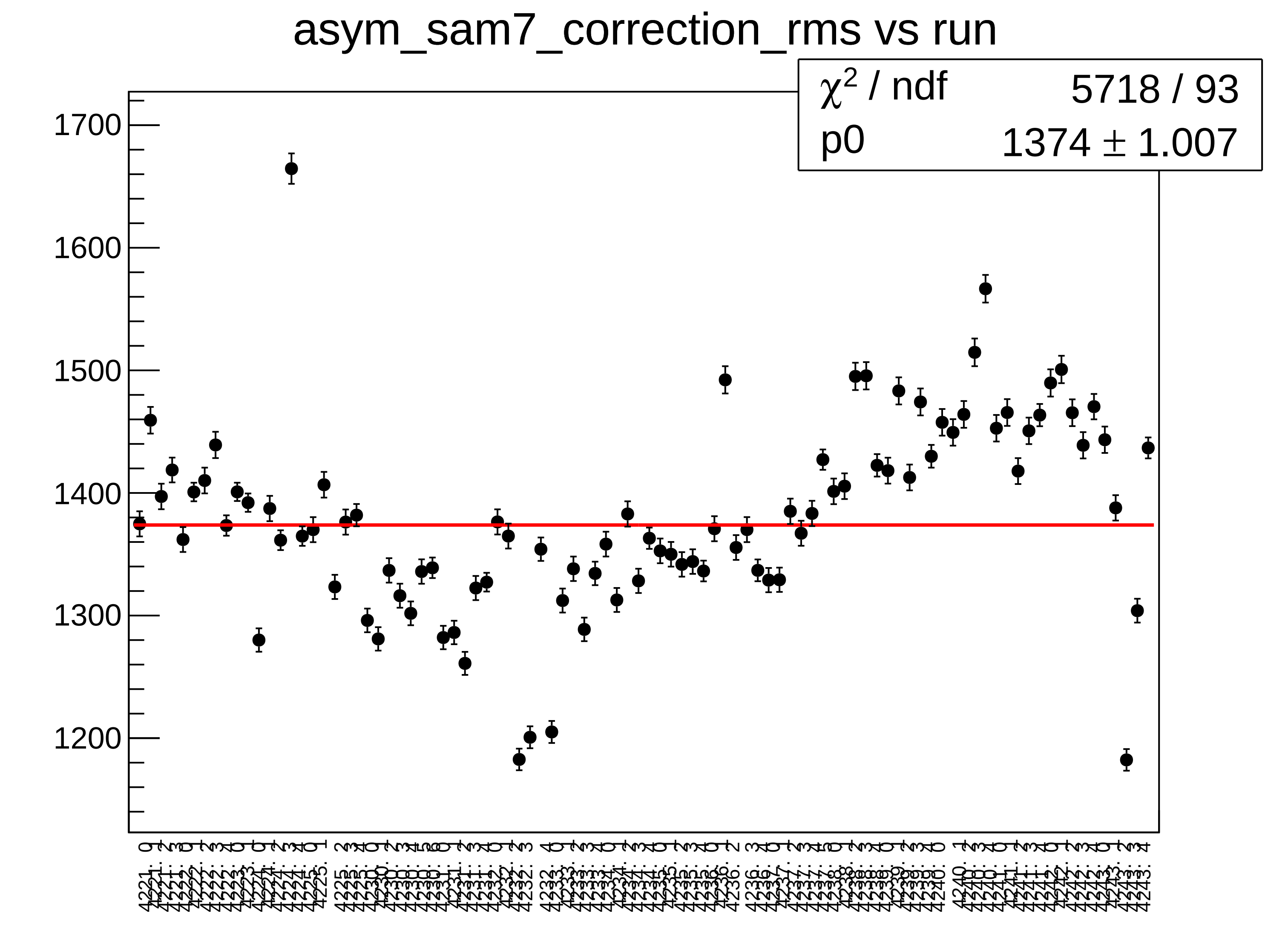


reg_asym_sam7_mean vs run
χ2 / ndf 88.16 / 93
p0 −169.5 ± 274.3
pull
Entries 94
Mean 213.5
Std Dev 134.7
pull1D
Entries 94
Mean −0.004594
Std Dev 0.9684

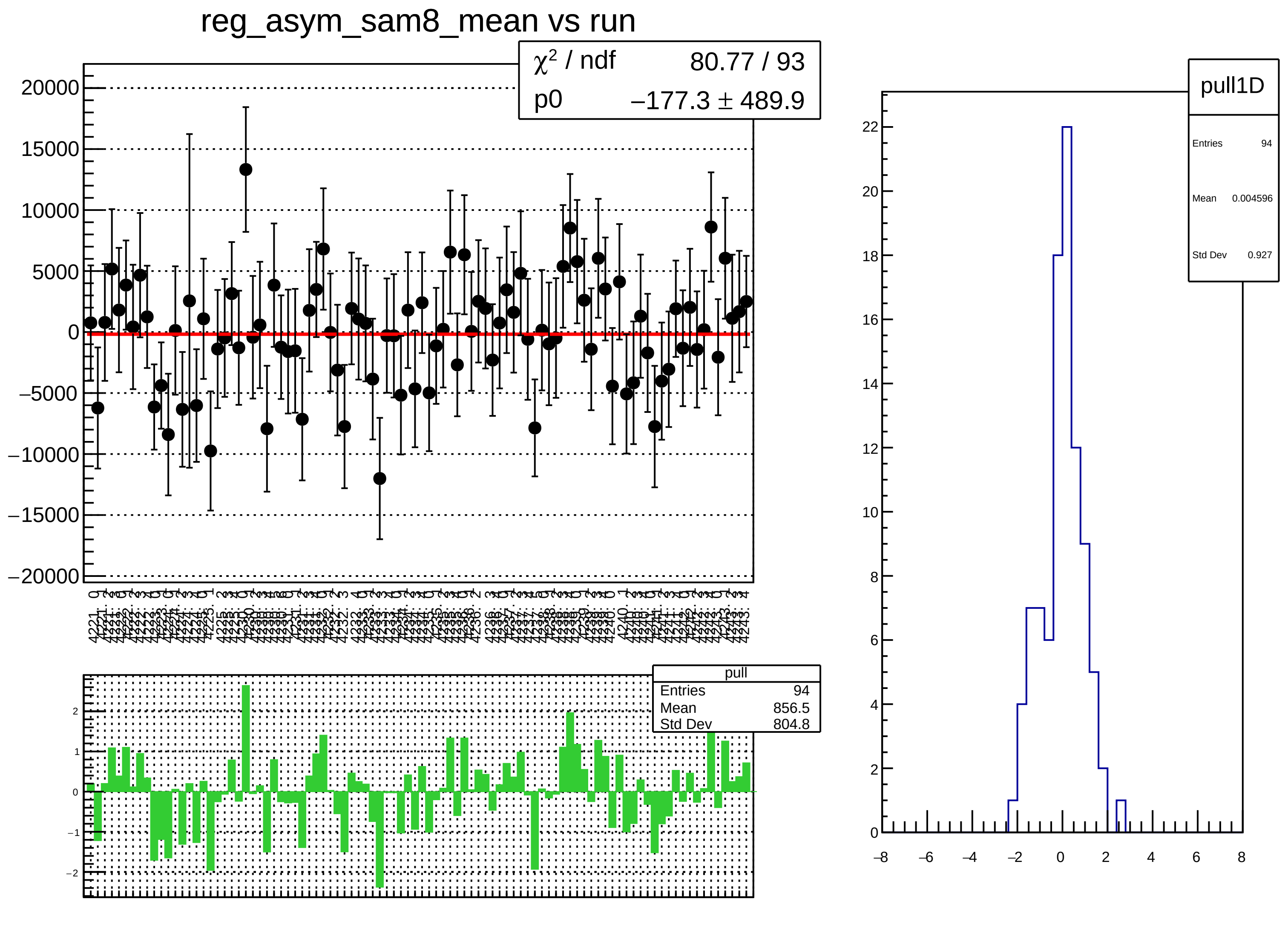

reg_asym_sam7_rms vs run
χ^2 / ndf 3.354e+04 / 93
p0 262.6 ± 0.194
2000
1800
1600
1400
1200
1000
800
600
400
200



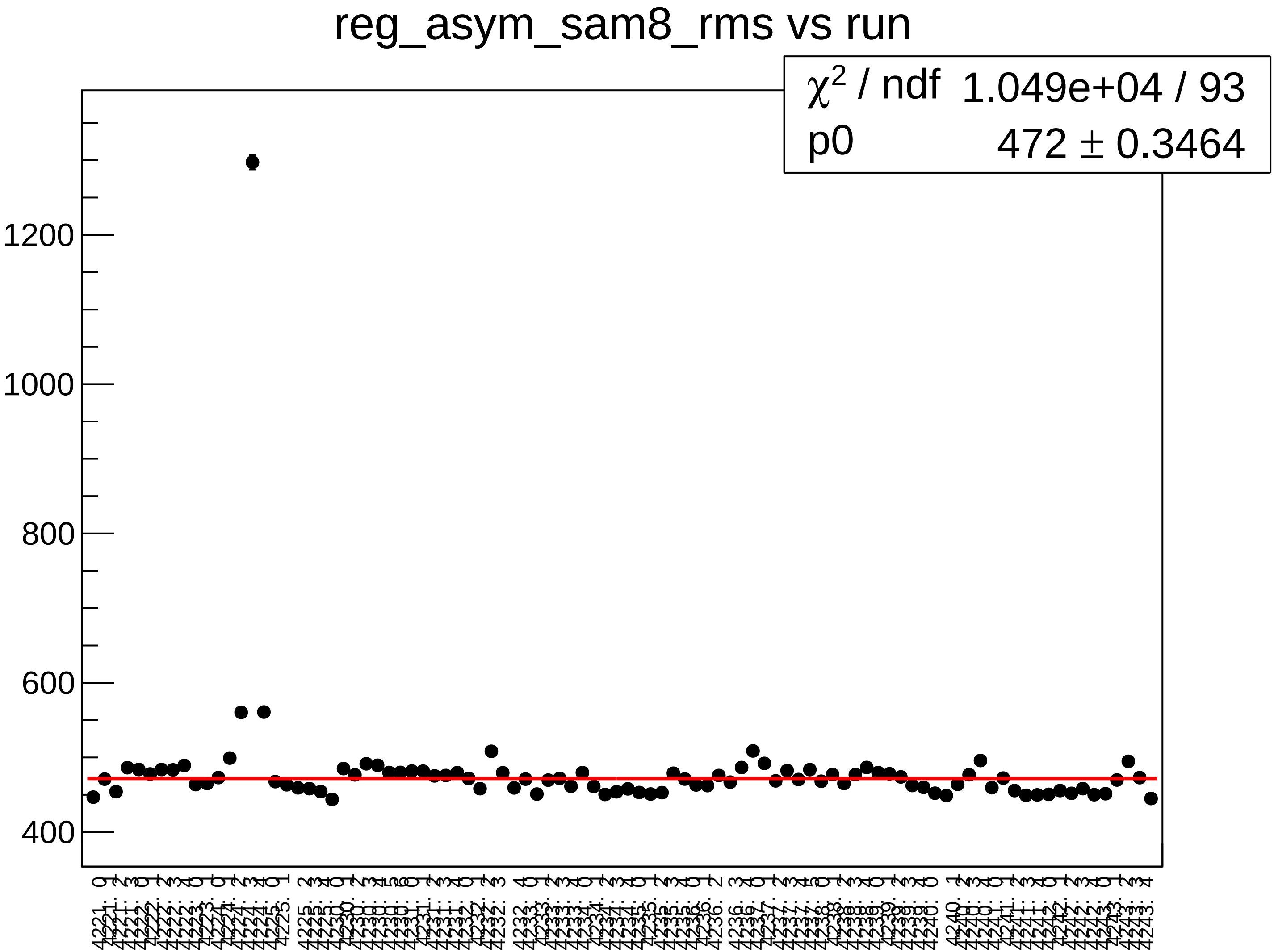
asym_sam7_correction_mean vs run
χ^2 / ndf 102.5 / 93
p0 342.7 ± 1424
pull
Entries 94
Mean 163.3
Std Dev 108.3
pull1D
Entries 94
Mean −0.006976
Std Dev 1.044



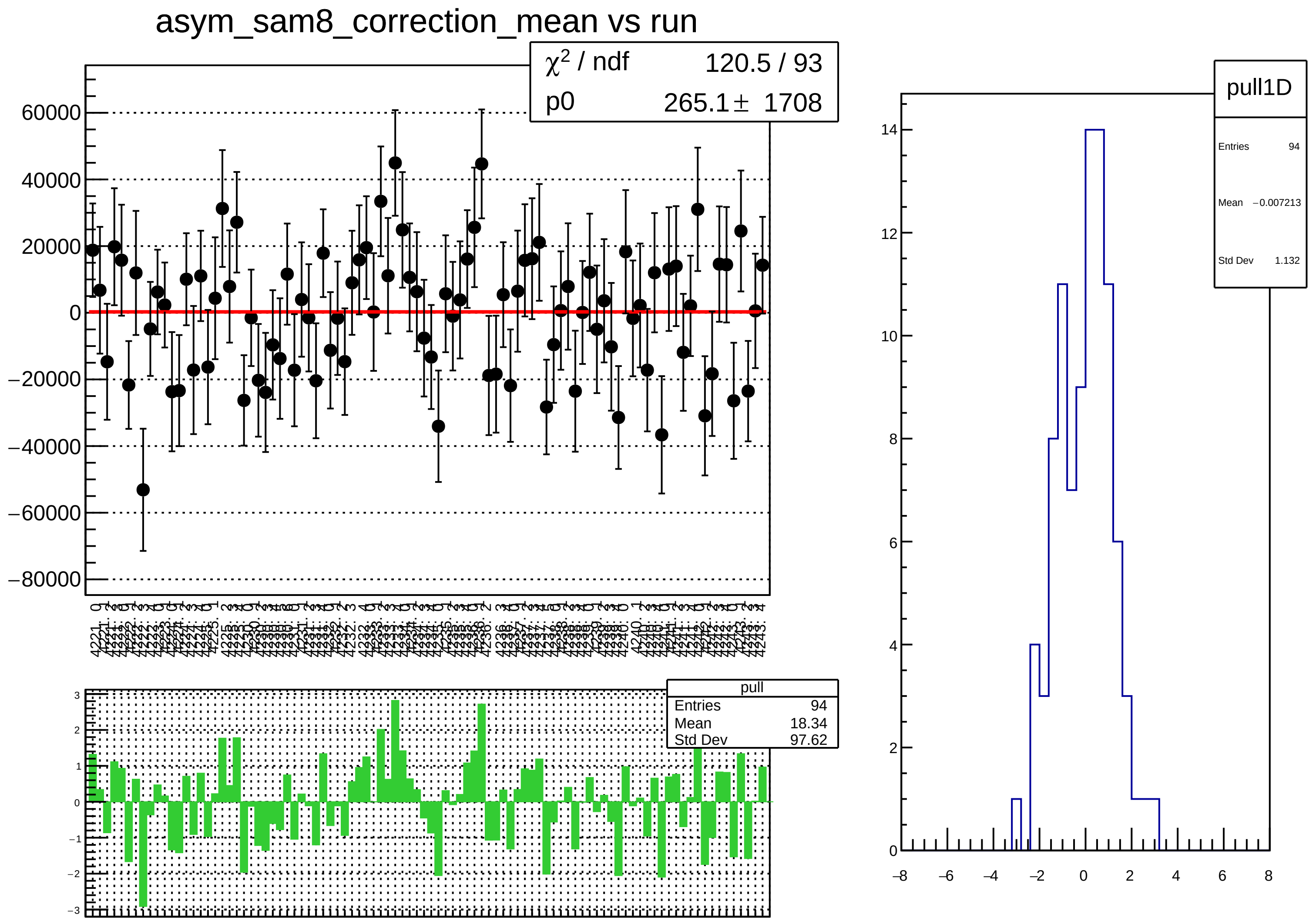
asym_sam7_correction_rms vs run
χ^2 / ndf 5718 / 93
p0 1374 ± 1.007
1700
1600
1500
1400
1300
1200



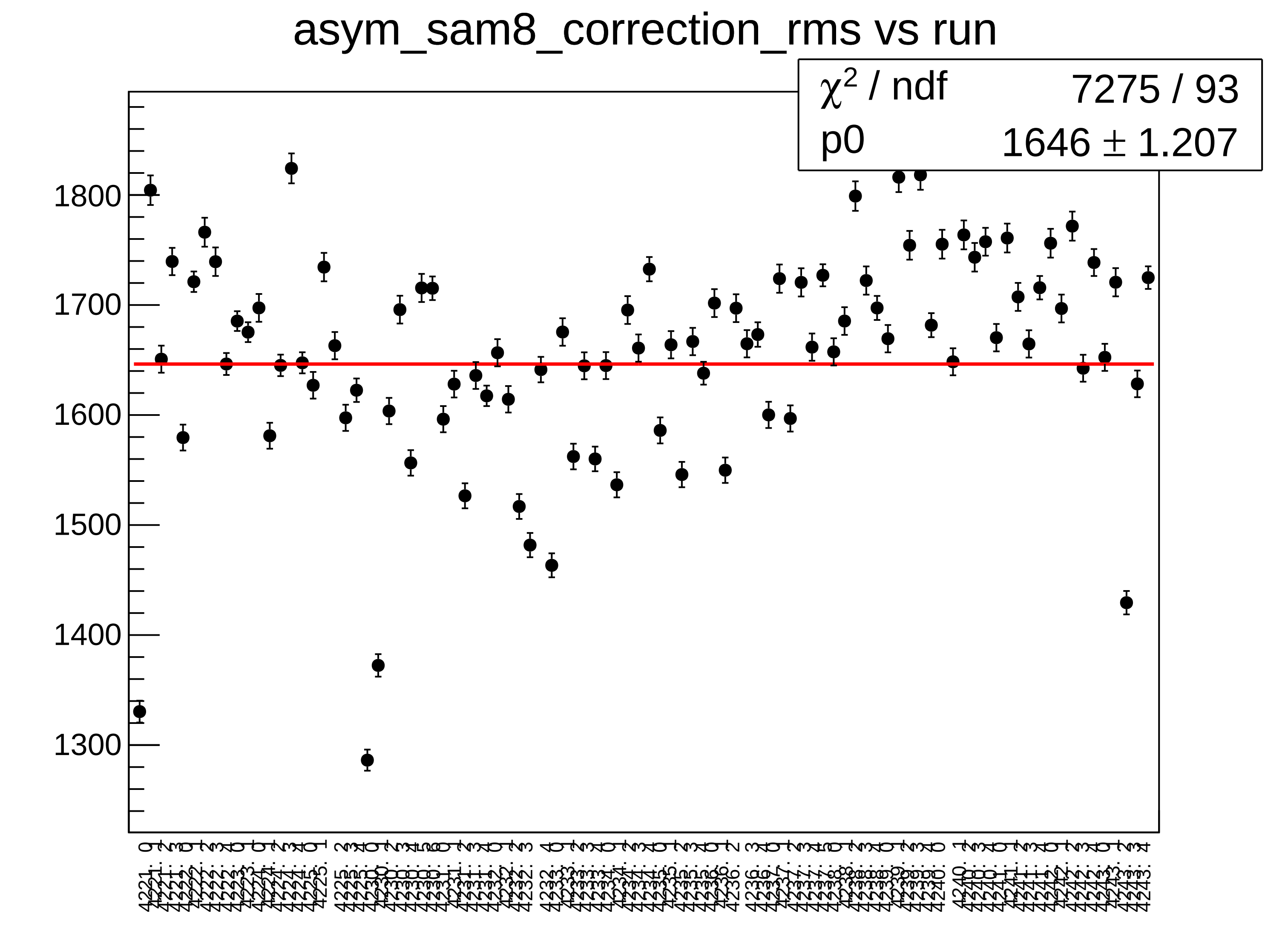
reg_asym_sam8_mean vs run
χ^2 / ndf 80.77 / 93
p0 −177.3 ± 489.9
pull
Entries 94
Mean 856.5
Std Dev 804.8
pull1D
Entries 94
Mean 0.004596
Std Dev 0.927



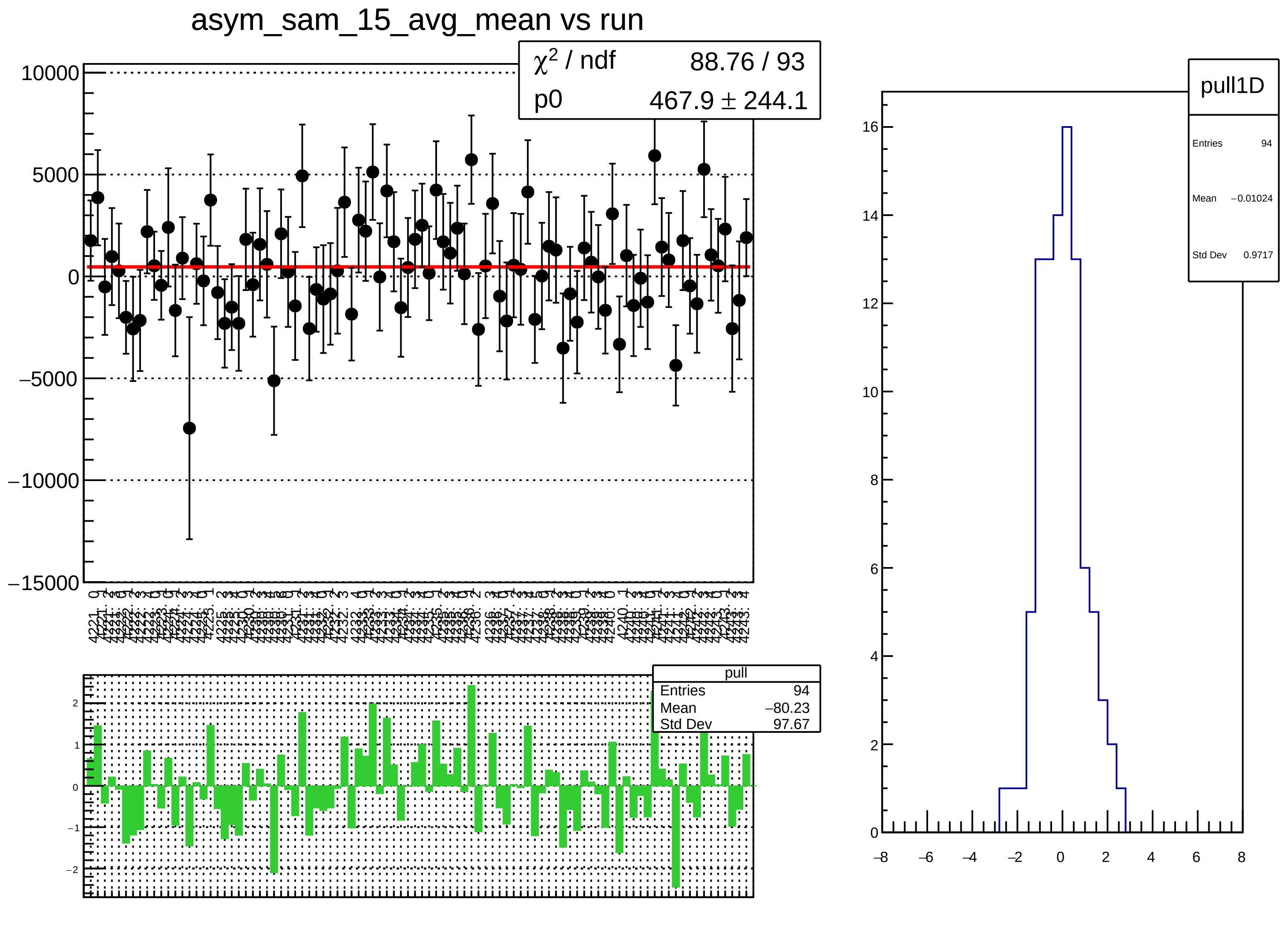
reg_asym_sam8_rms vs run
χ^2 / ndf 1.049e+04 / 93
p0 472 ± 0.3464
1200
1000
800
600
400



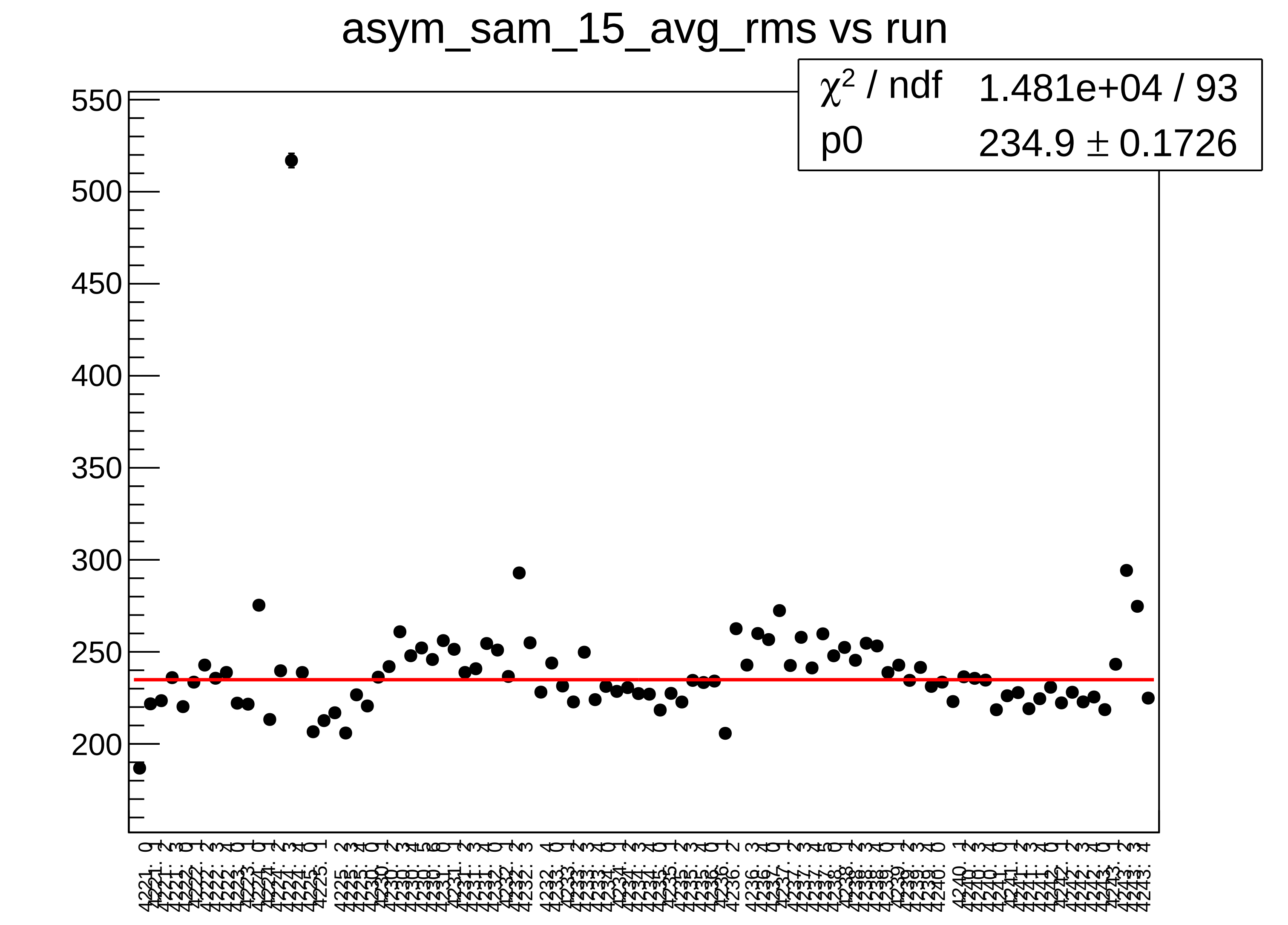
asym_sam8_correction_mean vs run
χ^2 / ndf 120.5 / 93
p0 265.1 ± 1708
pull
Entries 94
Mean 18.34
Std Dev 97.62
pull1D
Entries 94
Mean −0.007213
Std Dev 1.132



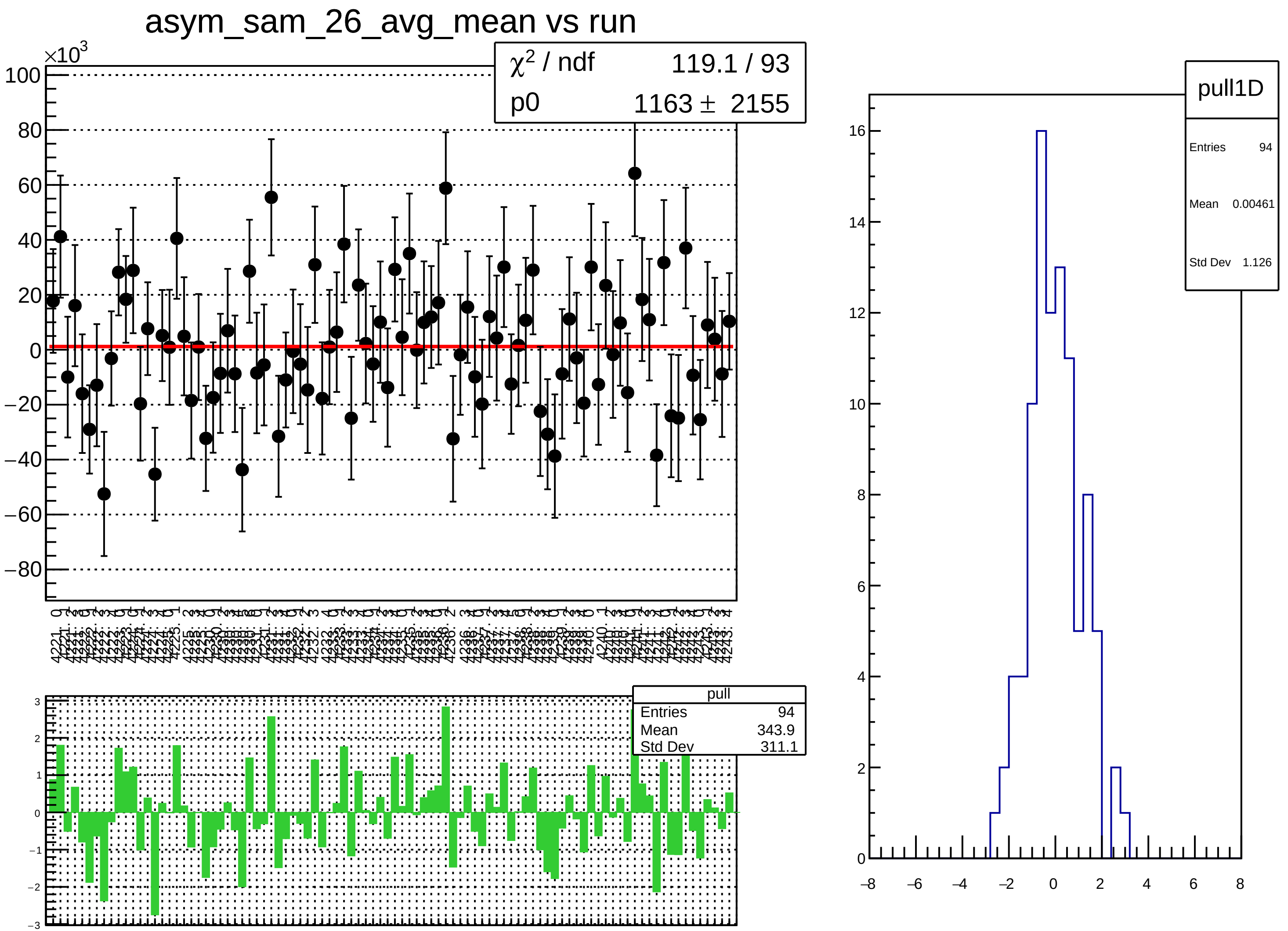
asym_sam8_correction_rms vs run
χ^2 / ndf 7275 / 93
p0 1646 ± 1.207
1800
1700
1600
1500
1400
1300



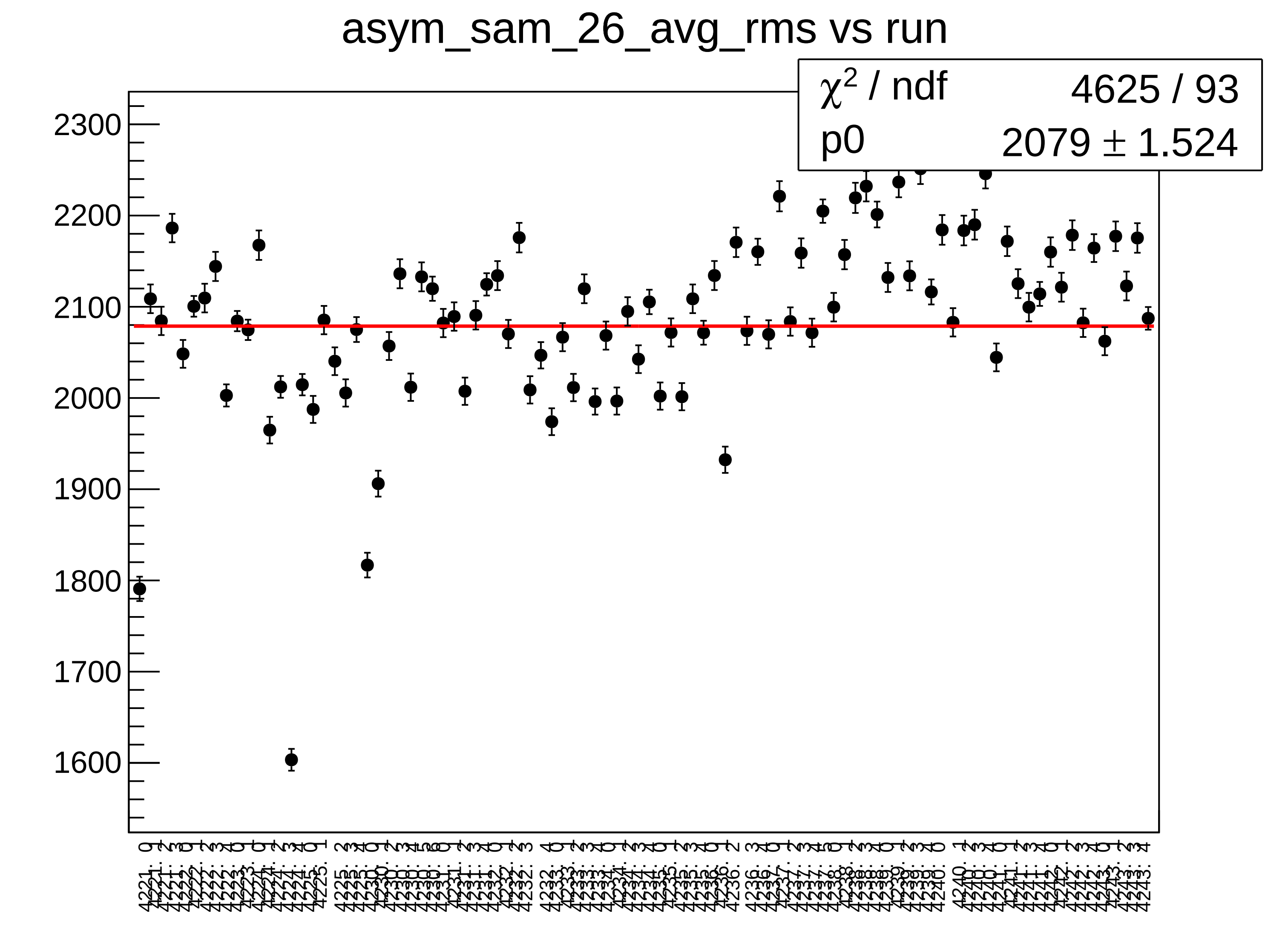
asym_sam_15_avg_mean vs run
χ^2 / ndf 88.76 / 93
p0 467.9 ± 244.1
pull
Entries 94
Mean −80.23
Std Dev 97.67
pull1D
Entries 94
Mean −0.01024
Std Dev 0.9717

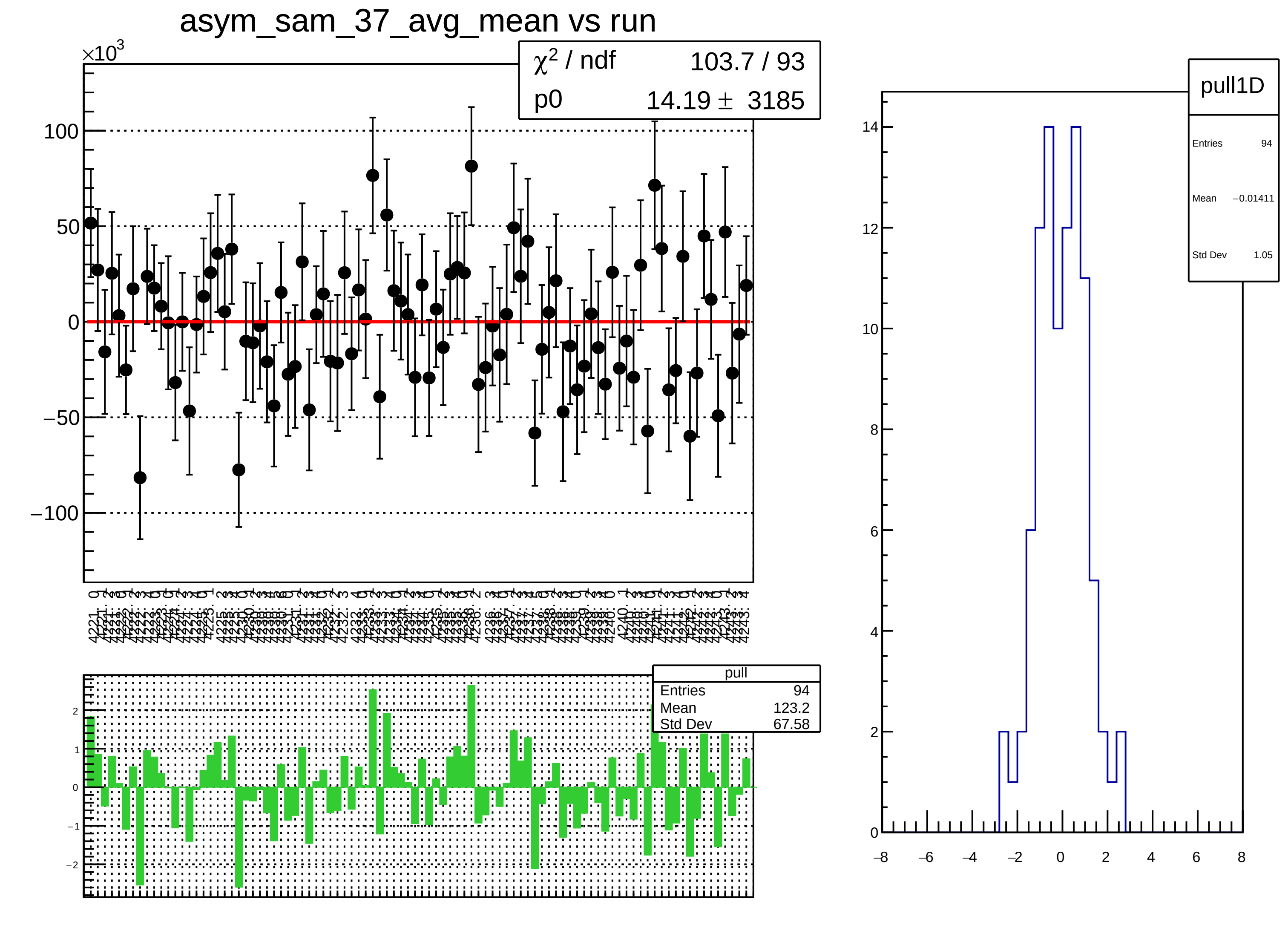


asym_sam_15_avg_rms vs run
χ2 / ndf 1.481e+04 / 93
p0 234.9 ± 0.1726
550
500
450
400
350
300
250
200

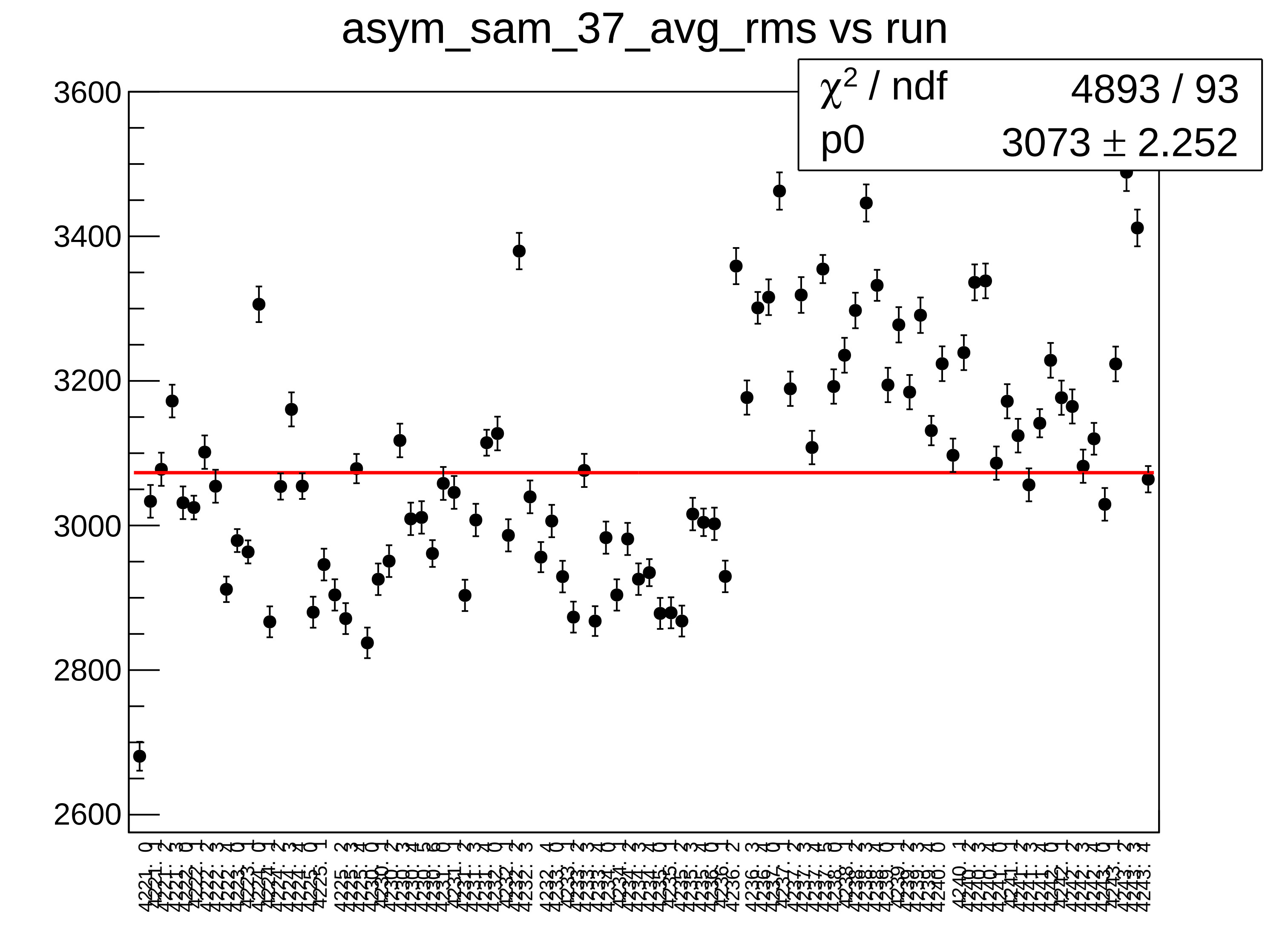


asym_sam_26_avg_mean vs run
χ^2 / ndf 119.1 / 93
p0 1163 ± 2155
×10^3
pull
Entries 94
Mean 343.9
Std Dev 311.1
pull1D
Entries 94
Mean 0.00461
Std Dev 1.126

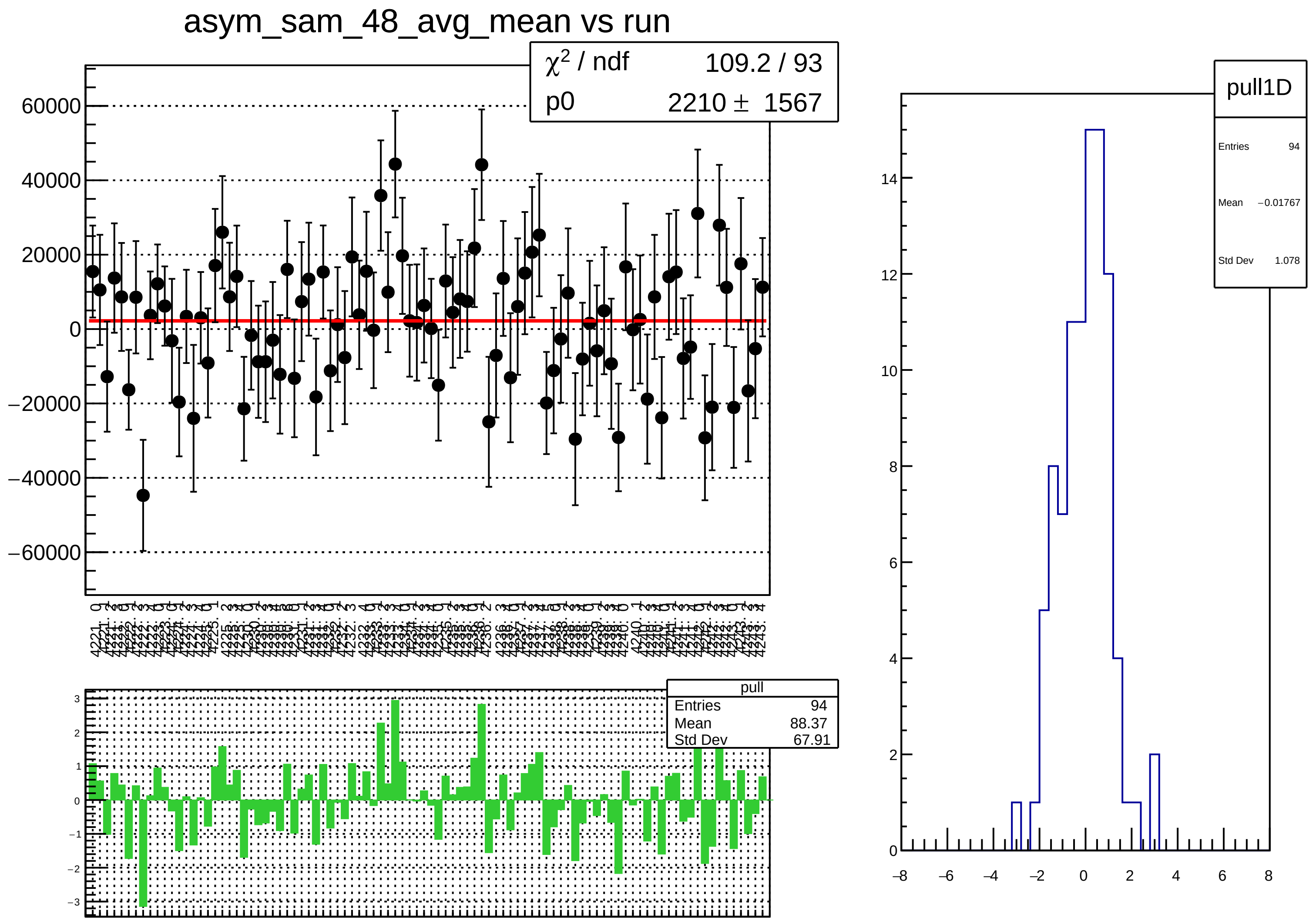

asym_sam_26_avg_rms vs run
χ² / ndf 4625 / 93
p0 2079 ± 1.524
2300
2200
2100
2000
1900
1800
1700
1600



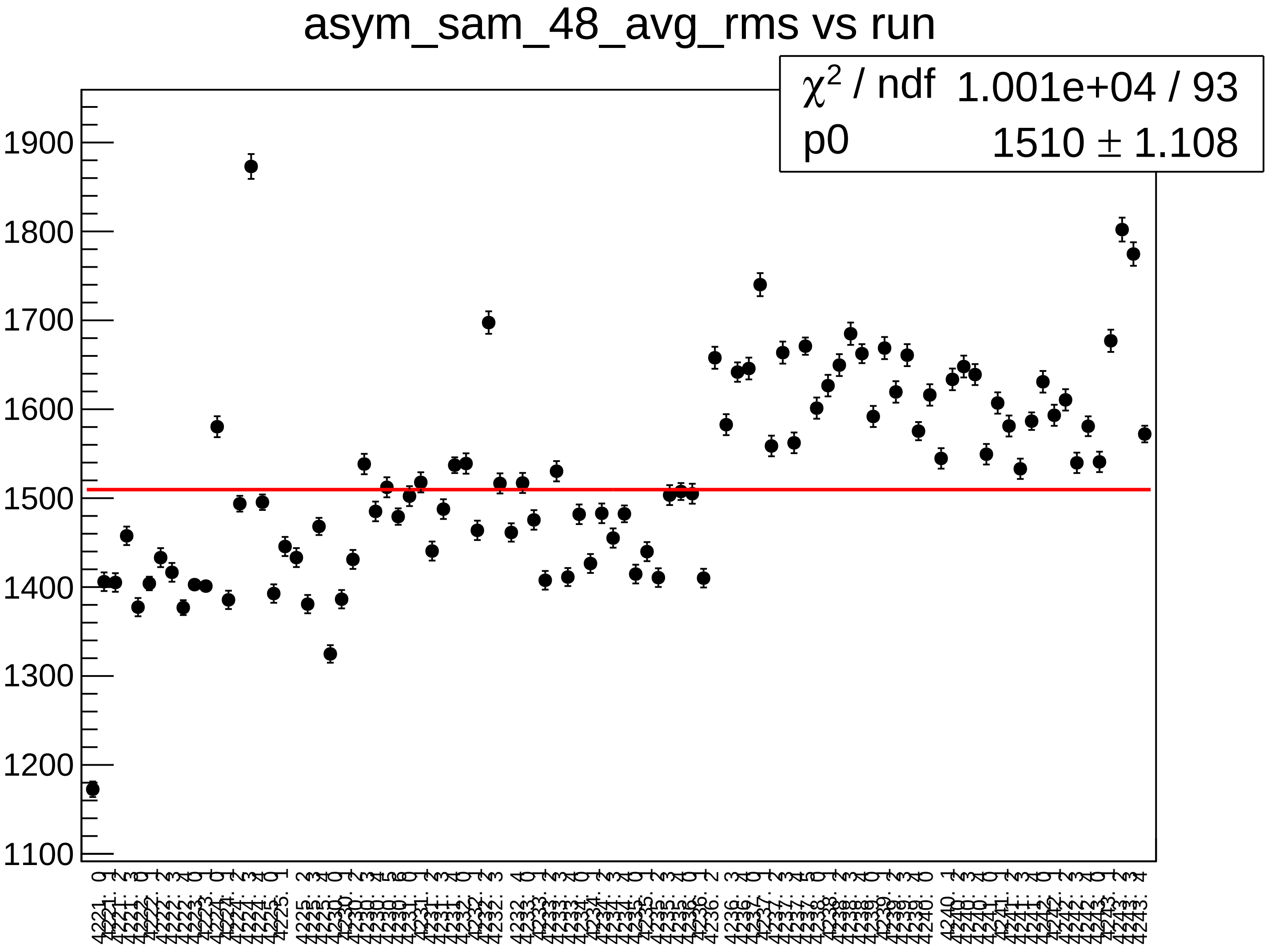
asym_sam_37_avg_mean vs run
×10^3
χ2 / ndf 103.7 / 93
p0 14.19 ± 3185
100
50
0
−50
−100
pull
Entries 94
Mean 123.2
Std Dev 67.58
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01411
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



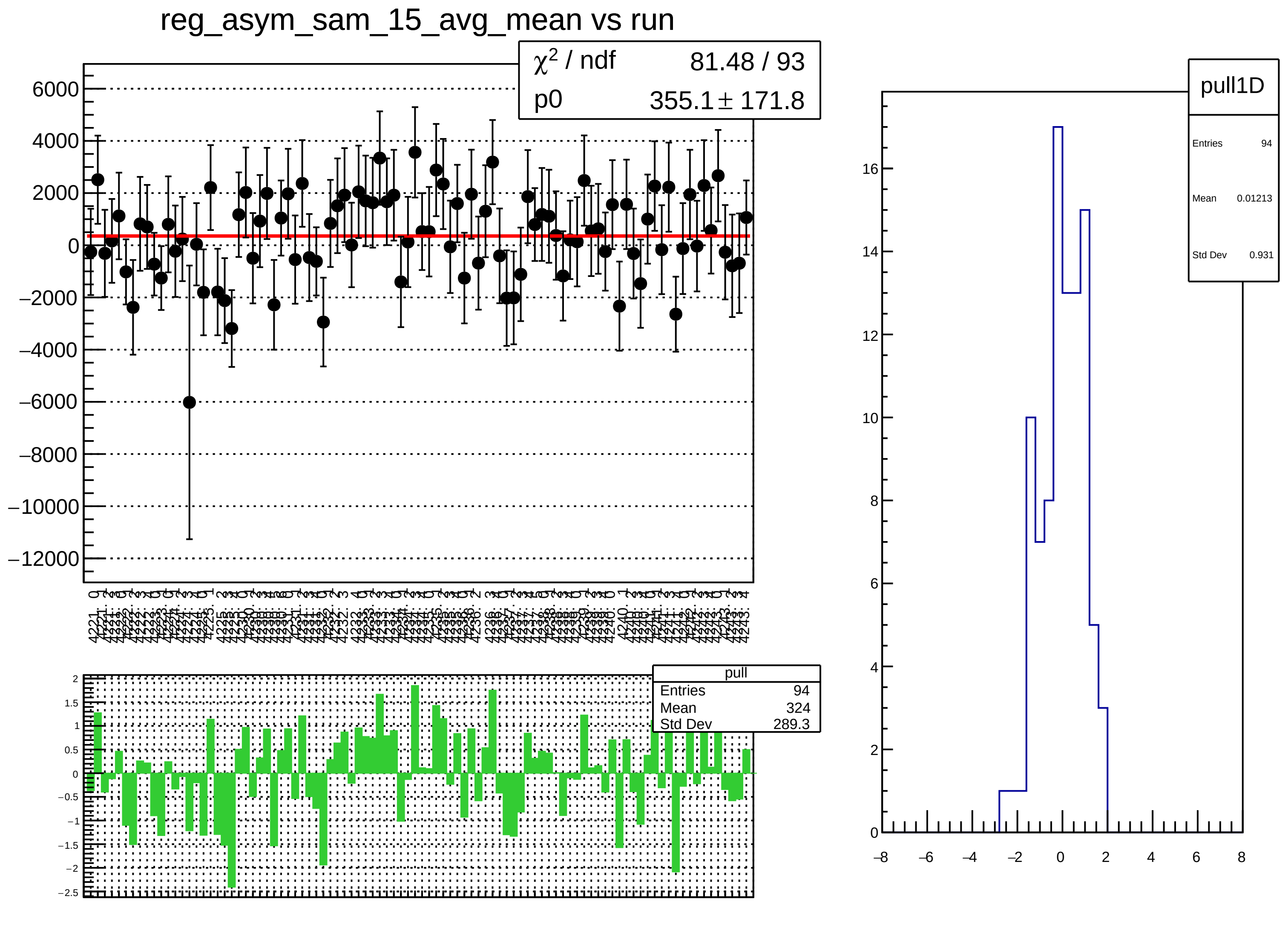
asym_sam_37_avg_rms vs run
χ^2 / ndf 4893 / 93
p0 3073 ± 2.252
3600
3400
3200
3000
2800
2600



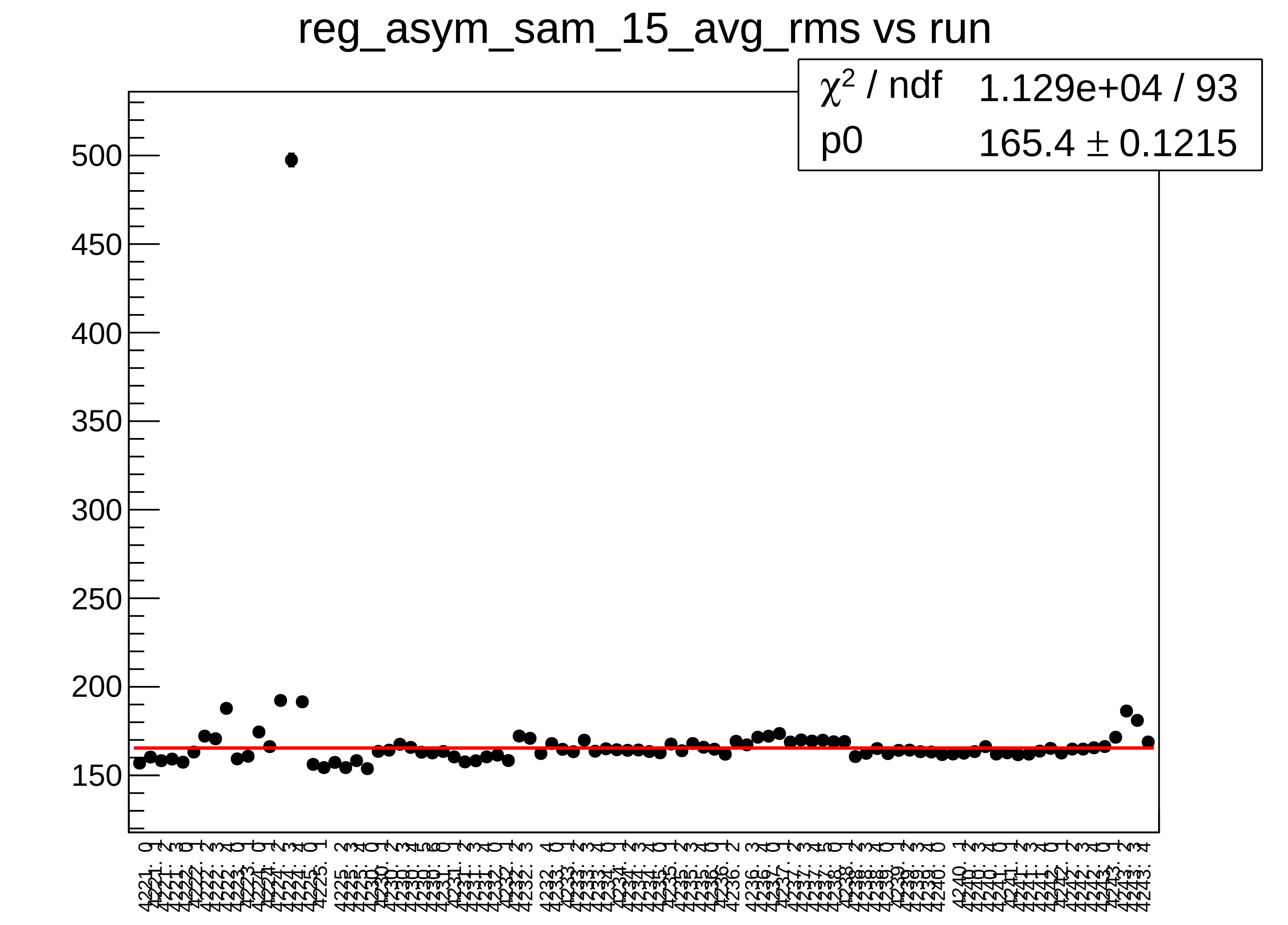
asym_sam_48_avg_mean vs run
χ^2 / ndf 109.2 / 93
p0 2210 ± 1567
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 88.37
Std Dev 67.91
pull1D
Entries 94
Mean −0.01767
Std Dev 1.078



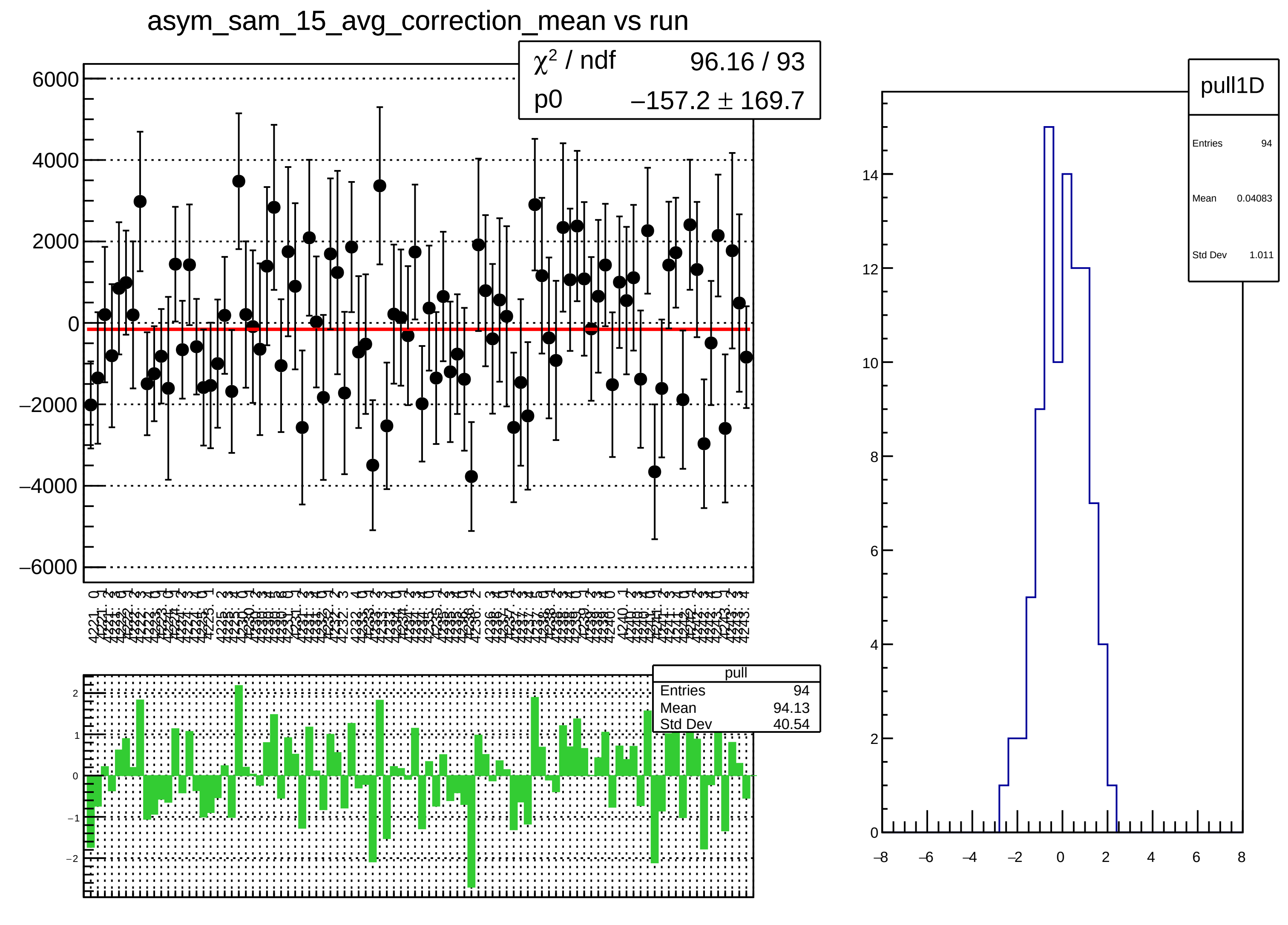
asym_sam_48_avg_rms vs run
χ^2 / ndf 1.001e+04 / 93
p0 1510 ± 1.108
1900
1800
1700
1600
1500
1400
1300
1200
1100



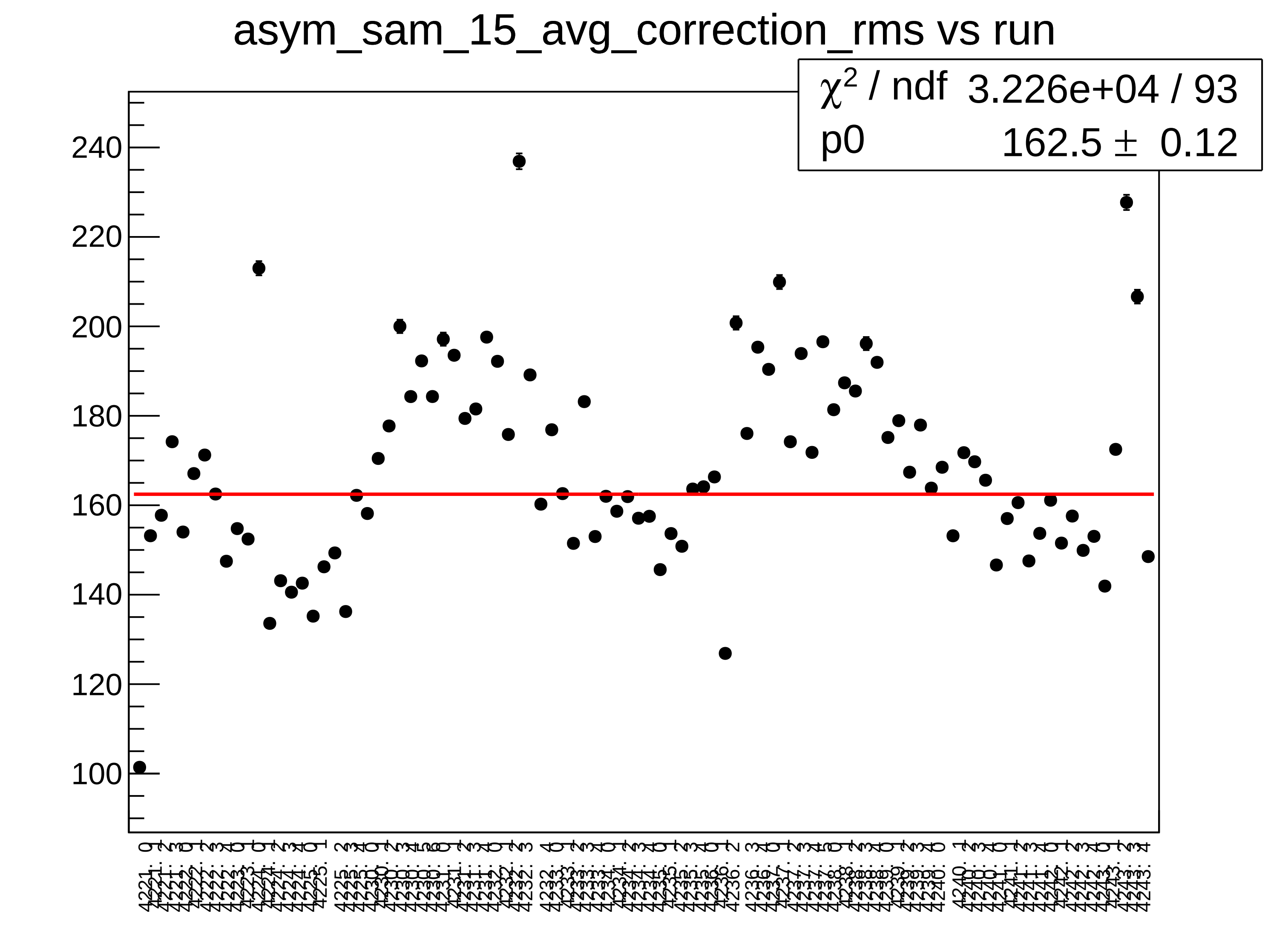
reg_asym_sam_15_avg_mean vs run
χ^2 / ndf 81.48 / 93
p0 355.1 ± 171.8
pull
Entries 94
Mean 324
Std Dev 289.3
pull1D
Entries 94
Mean 0.01213
Std Dev 0.931



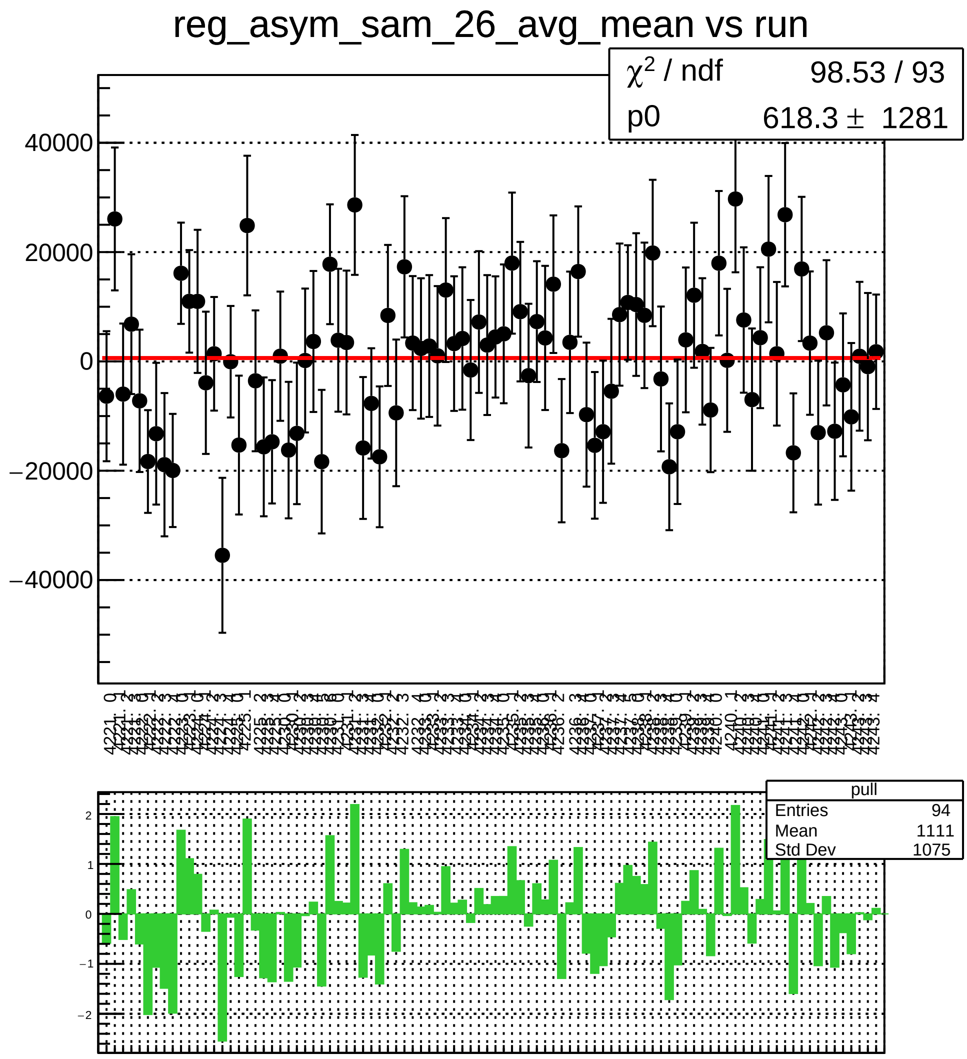
reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.129e+04 / 93
p0 165.4 ± 0.1215
500
450
400
350
300
250
200
150



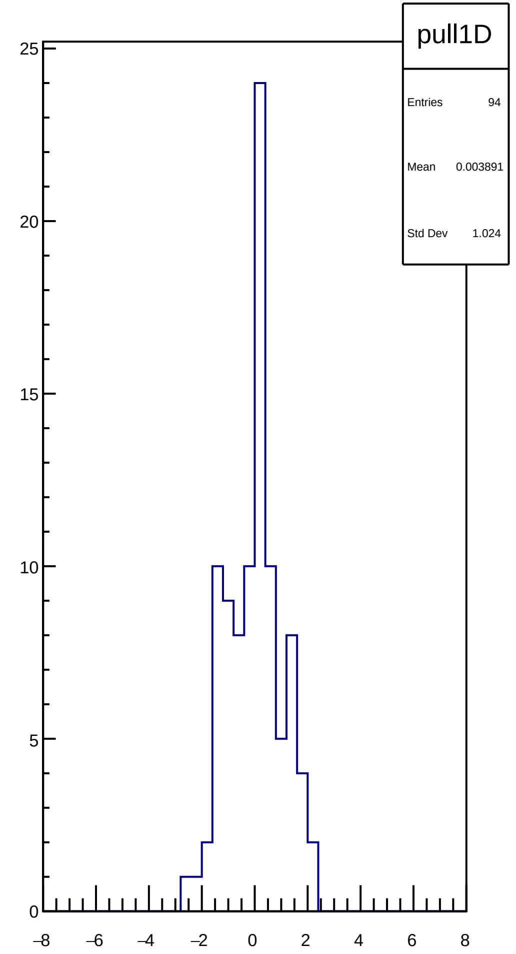
asym_sam_15_avg_correction_mean vs run
χ2 / ndf 96.16 / 93
p0 −157.2 ± 169.7
pull
Entries 94
Mean 94.13
Std Dev 40.54
pull1D
Entries 94
Mean 0.04083
Std Dev 1.011



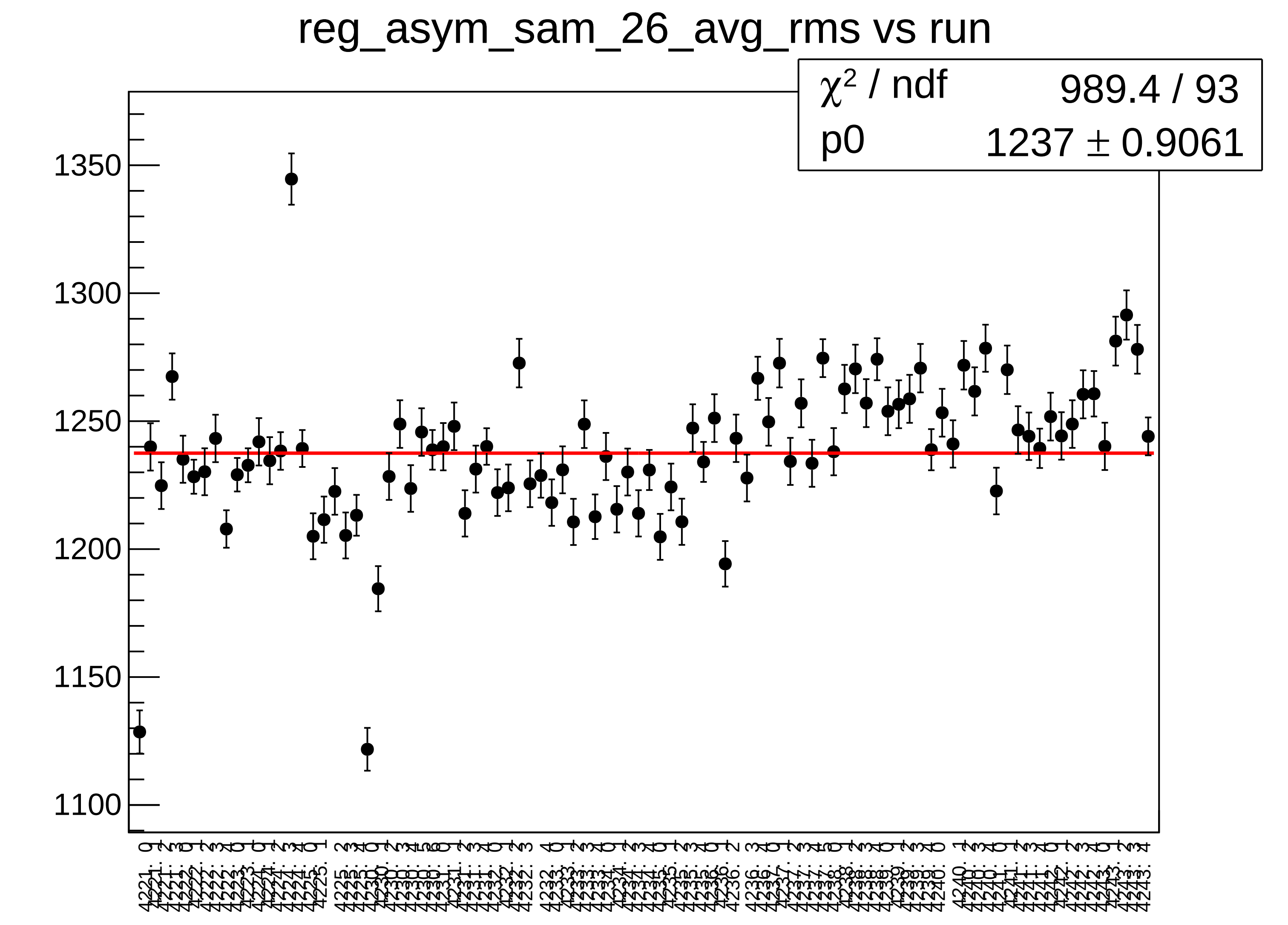
asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 3.226e+04 / 93
p0 162.5 ± 0.12
240
220
200
180
160
140
120
100



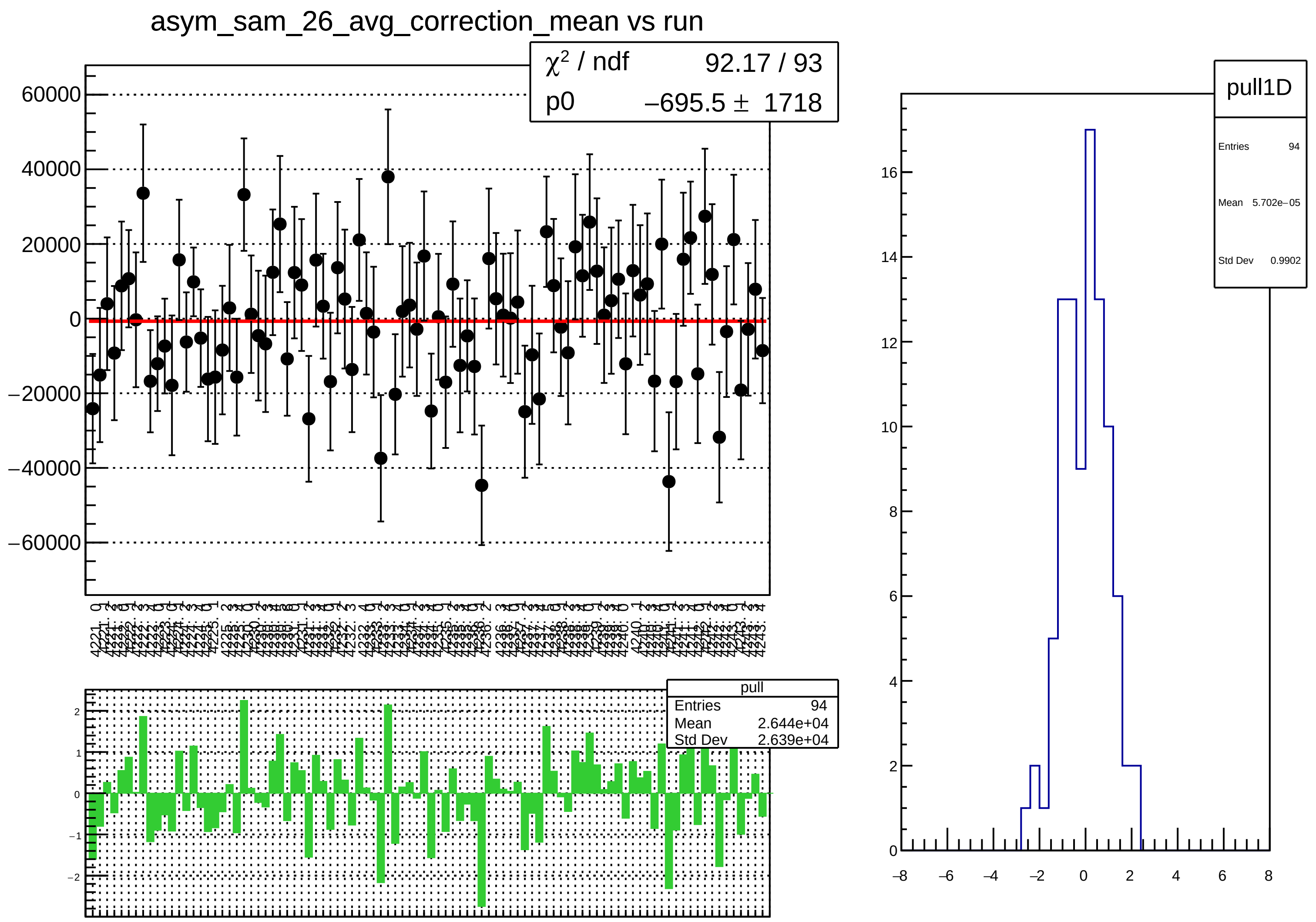
reg_asym_sam_26_avg_mean vs run
χ^2 / ndf 98.53 / 93
p0 618.3 ± 1281
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 1111
Std Dev 1075
2
1
0
−1
−2



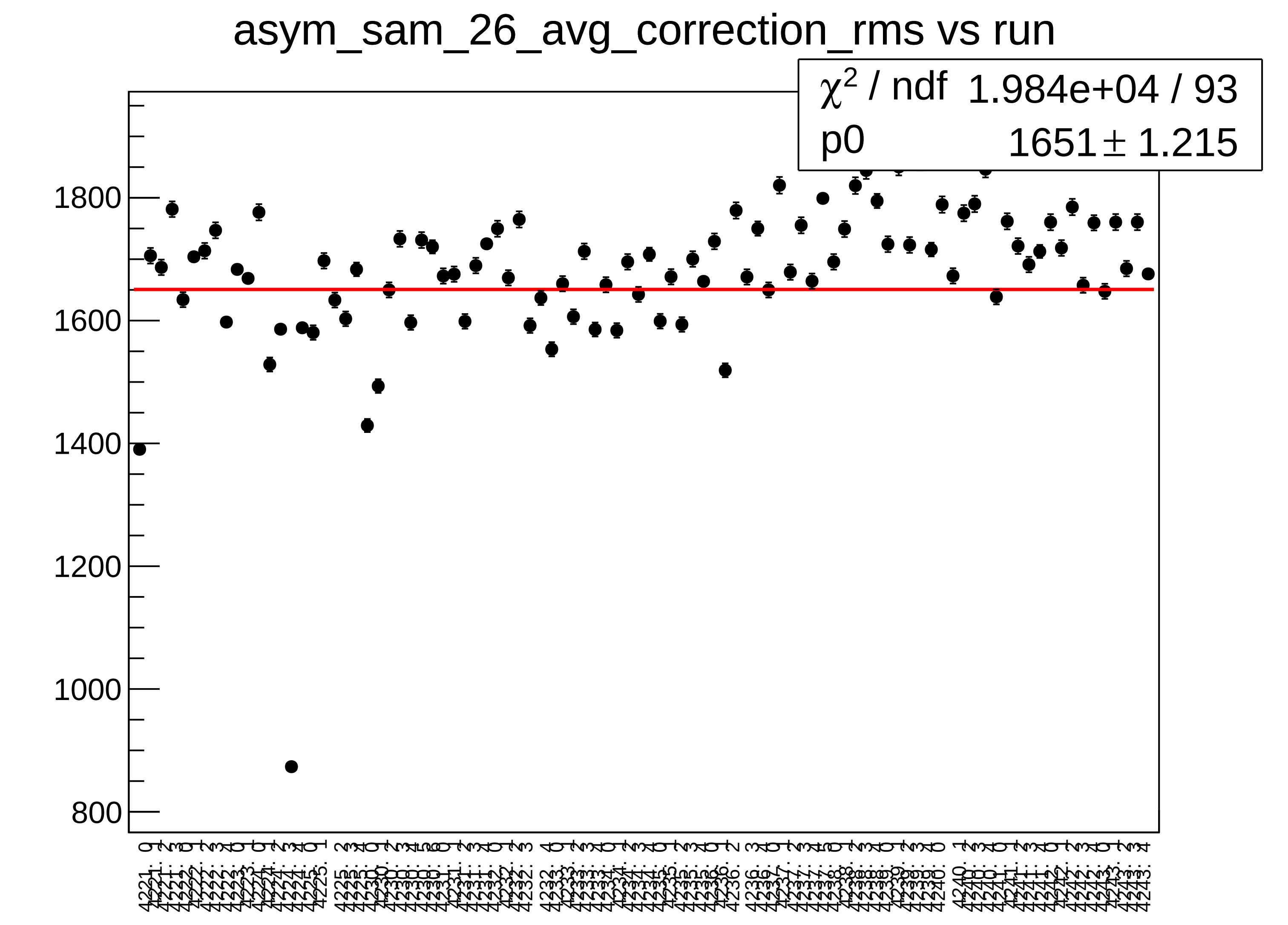
pull1D
Entries 94
Mean 0.003891
Std Dev 1.024
25
20
15
10
5
0
−8 −6 −4 −2 0 2 4 6 8

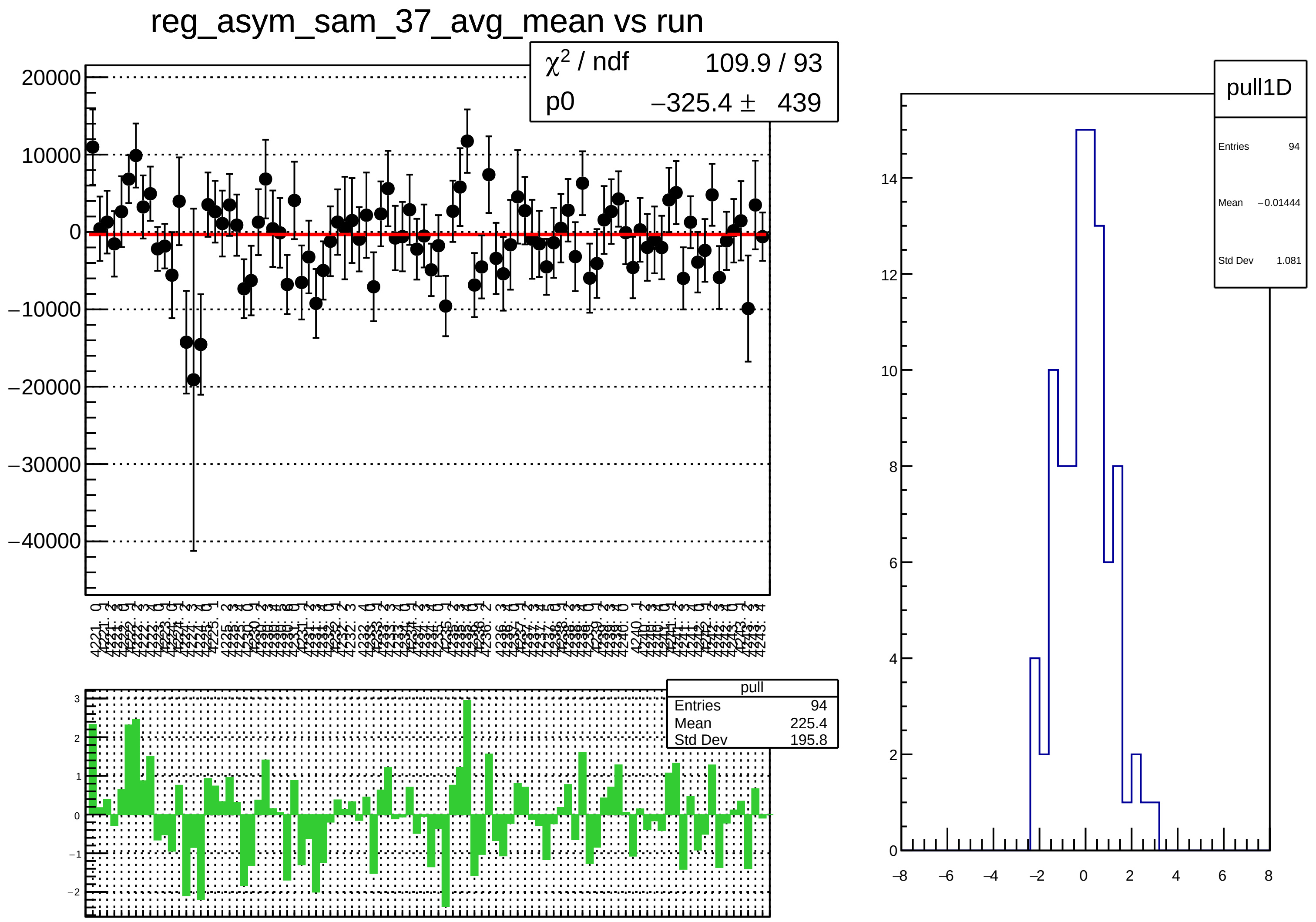


reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 989.4 / 93
p0 1237 ± 0.9061
1350
1300
1250
1200
1150
1100

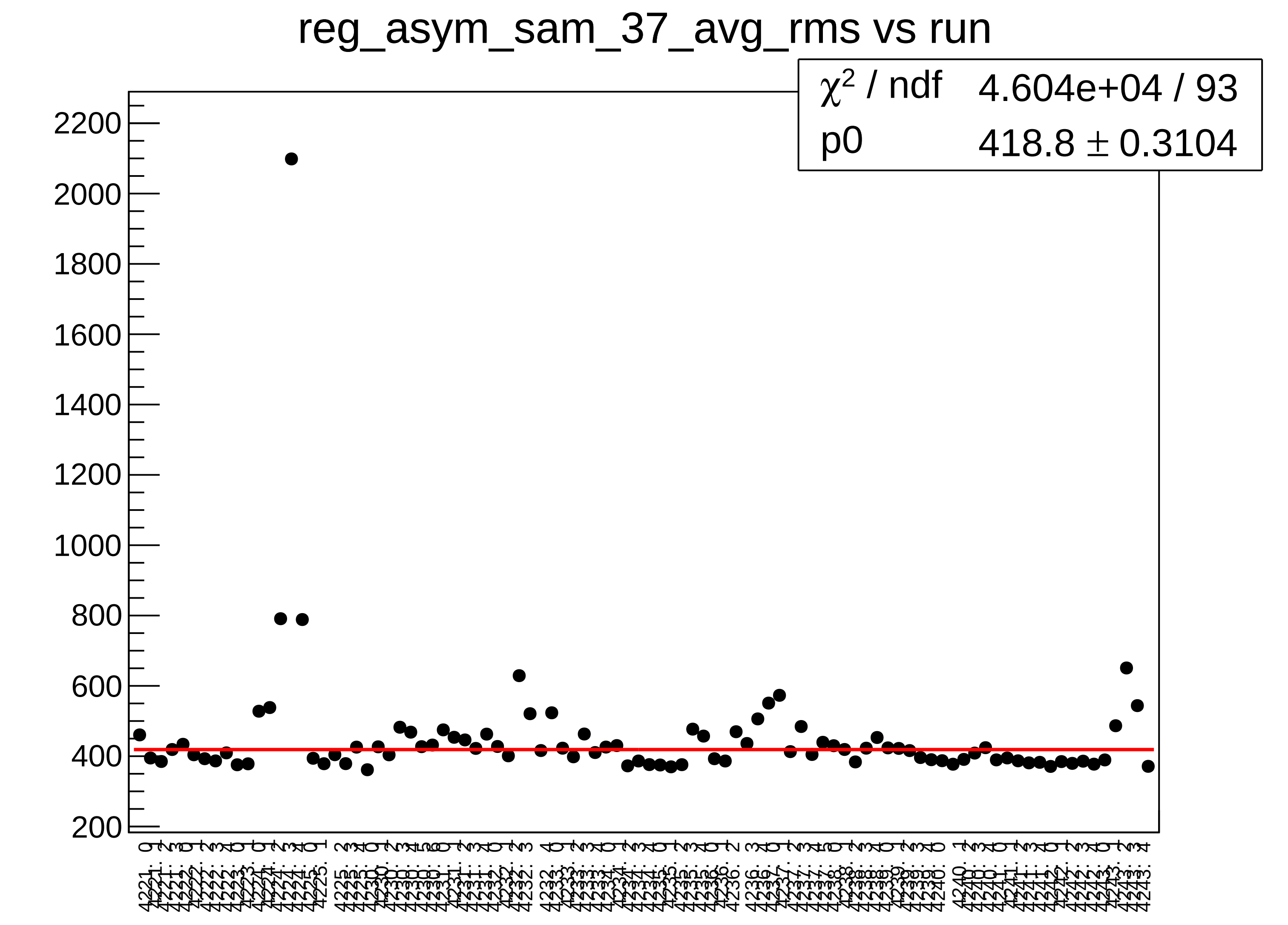


asym_sam_26_avg_correction_mean vs run
χ^2 / ndf 92.17 / 93
p0 −695.5 ± 1718
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 2.644e+04
Std Dev 2.639e+04
pull1D
Entries 94
Mean 5.702e−05
Std Dev 0.9902

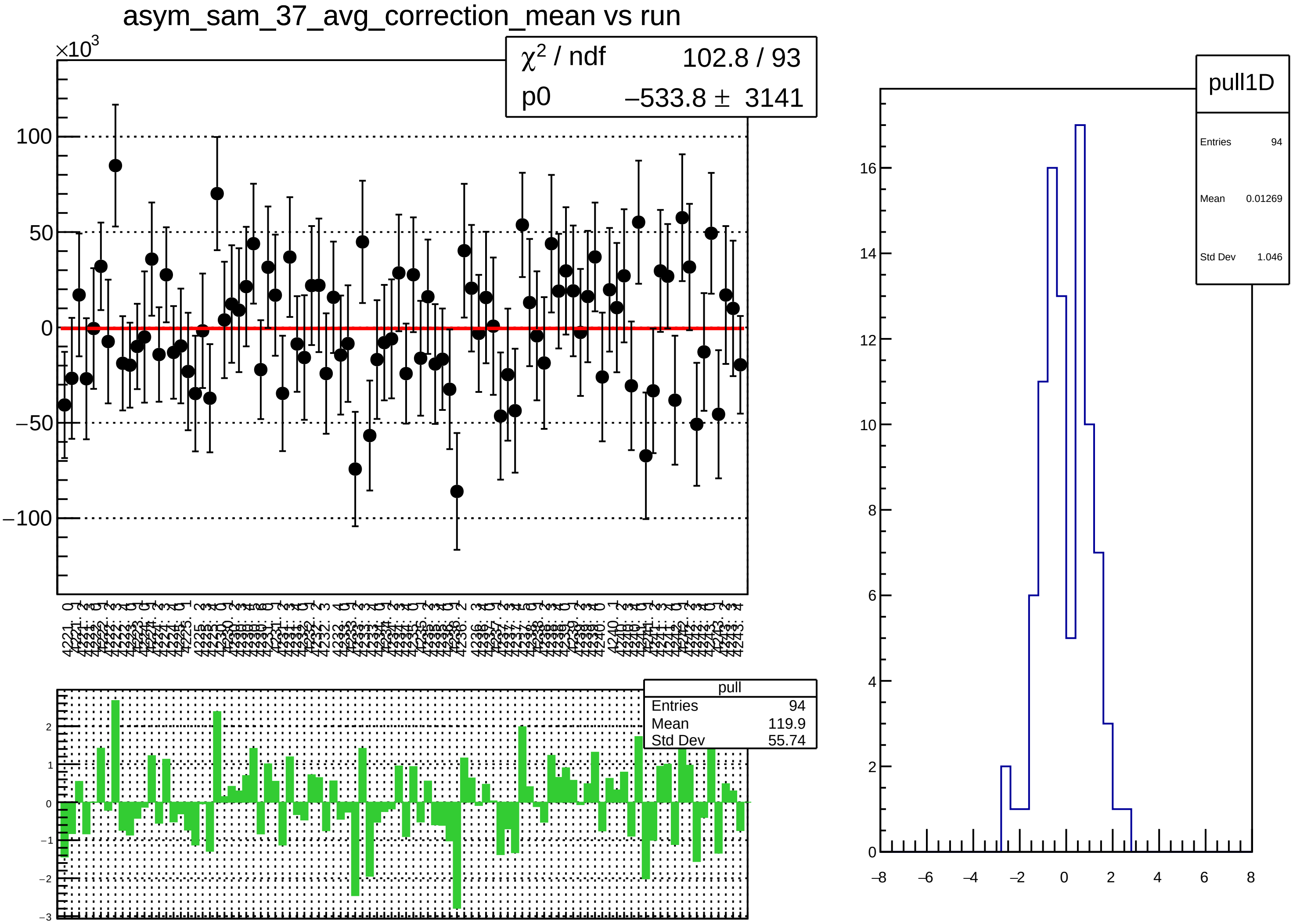

asym_sam_26_avg_correction_rms vs run
χ^2 / ndf 1.984e+04 / 93
p0 1651 ± 1.215
1800
1600
1400
1200
1000
800



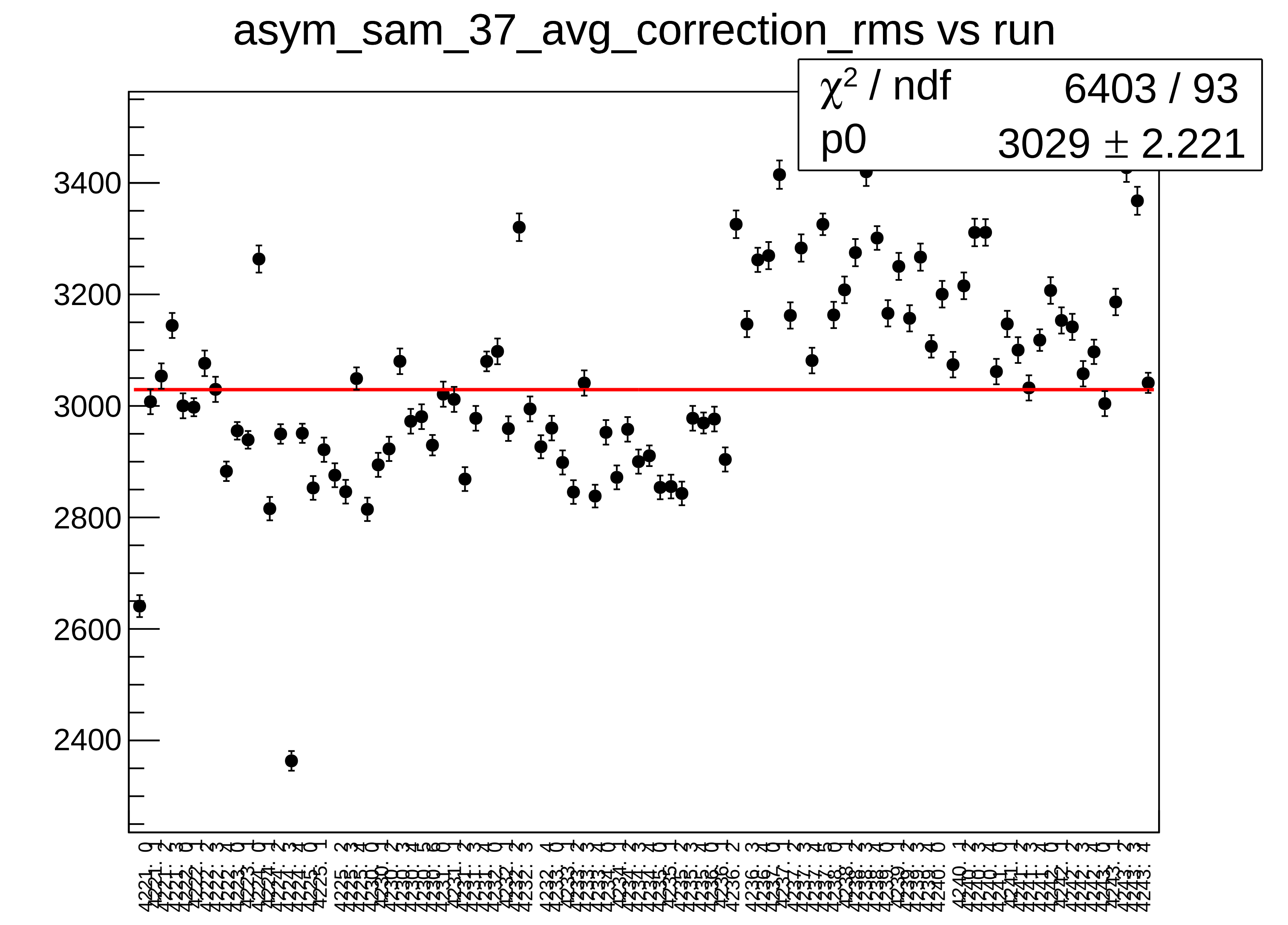
reg_asym_sam_37_avg_mean vs run
χ2 / ndf 109.9 / 93
p0 −325.4 ± 439
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 225.4
Std Dev 195.8
pull1D
Entries 94
Mean −0.01444
Std Dev 1.081



reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.604e+04 / 93
p0 418.8 ± 0.3104
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

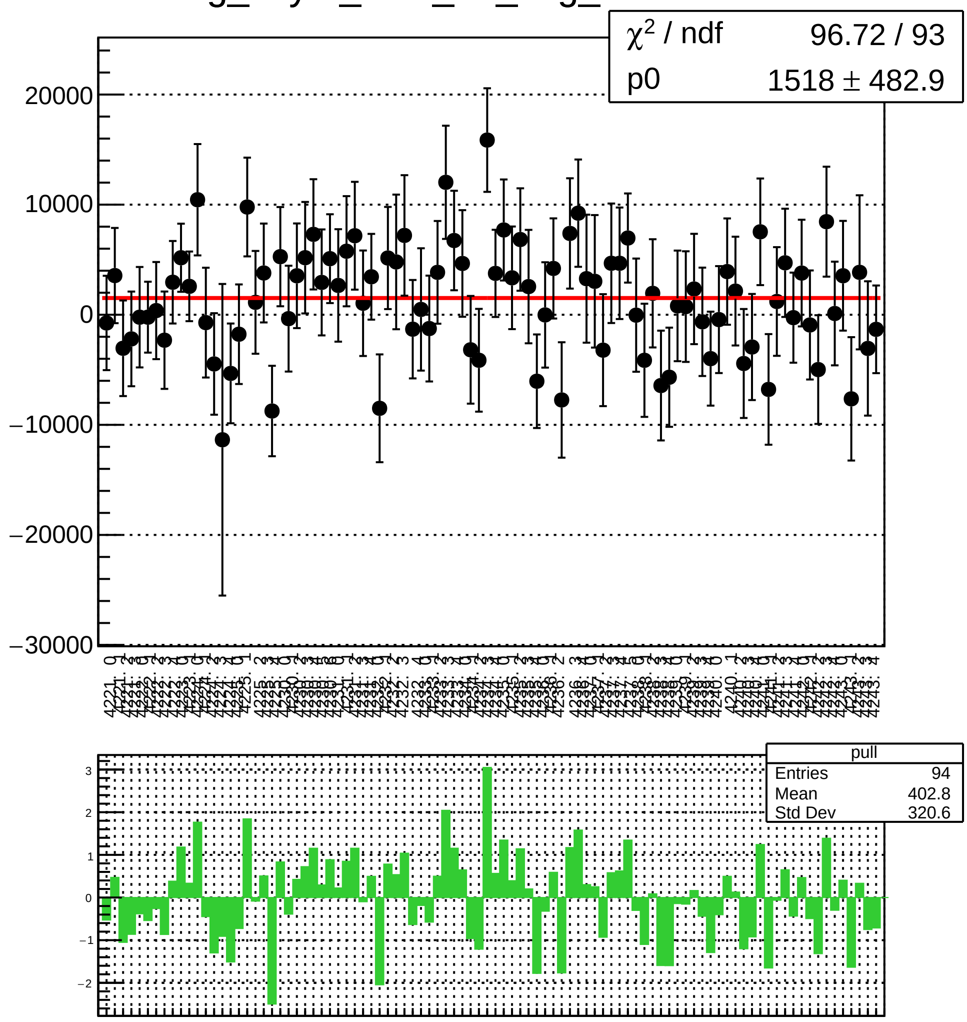


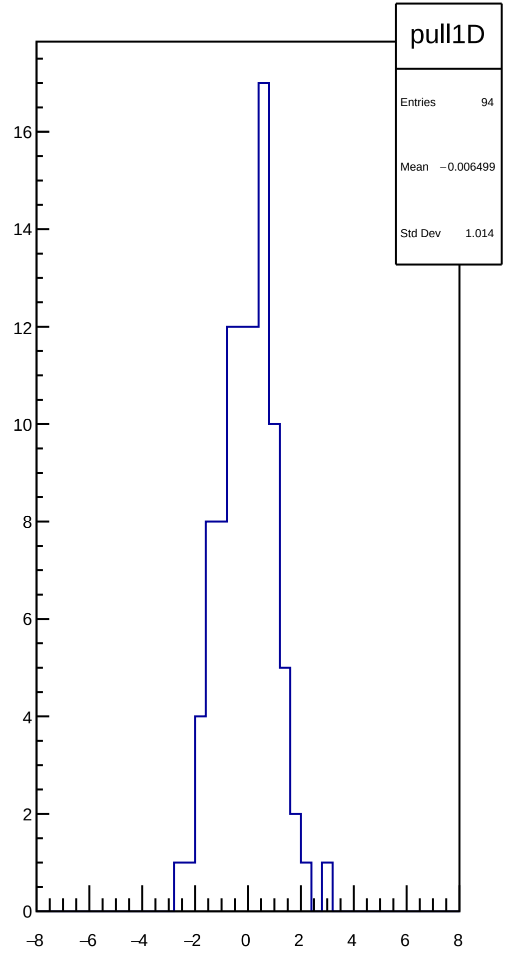
asym_sam_37_avg_correction_mean vs run
$\times10^3$
χ^2 / ndf 102.8 / 93
p0 −533.8 ± 3141
pull
Entries 94
Mean 119.9
Std Dev 55.74
pull1D
Entries 94
Mean 0.01269
Std Dev 1.046

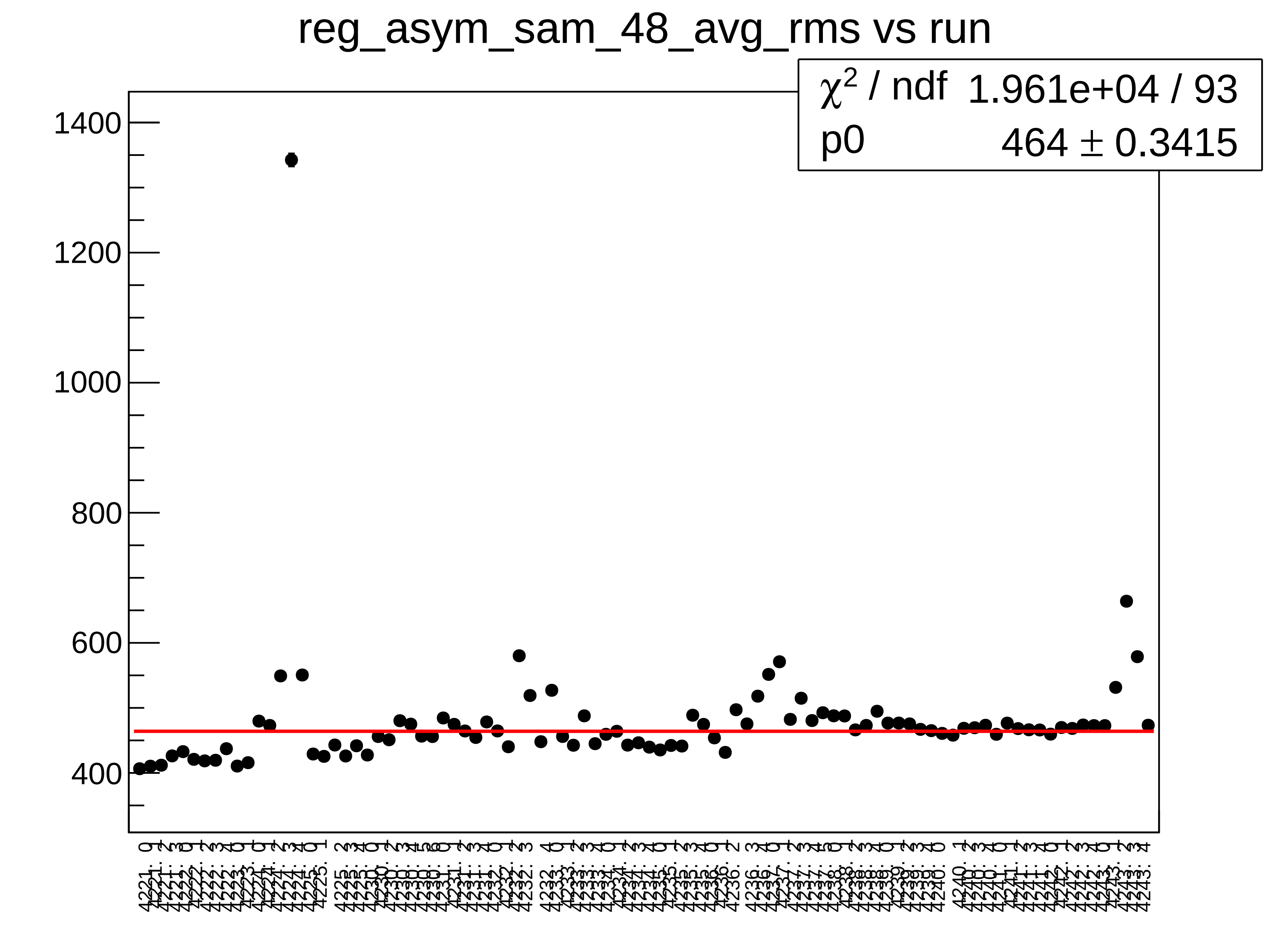


asym_sam_37_avg_correction_rms vs run
χ^2 / ndf 6403 / 93
p0 3029 ± 2.221
3400
3200
3000
2800
2600
2400

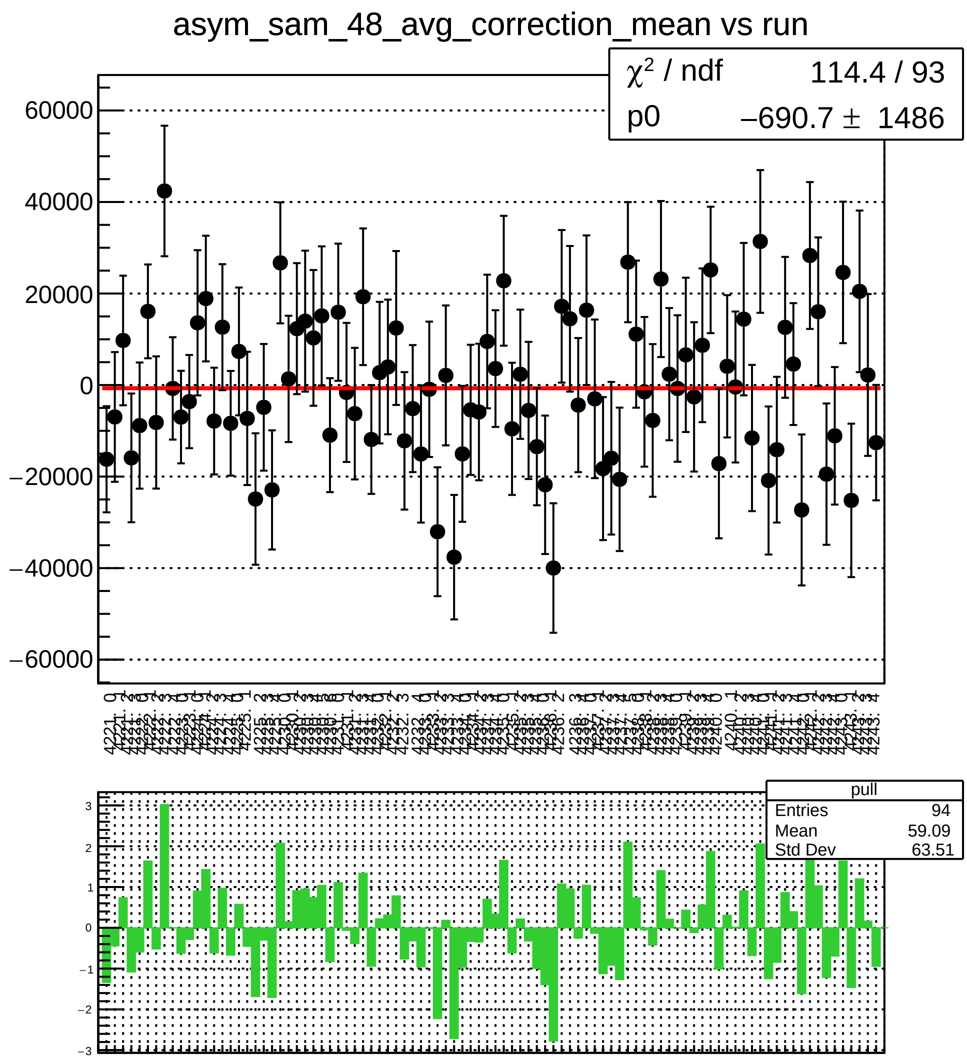
reg_asym_sam_48_avg_mean vs run



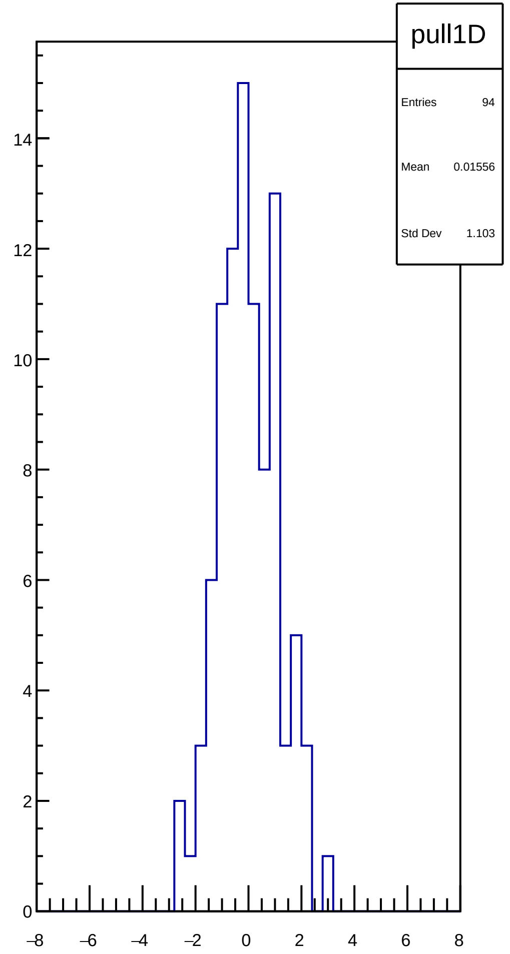




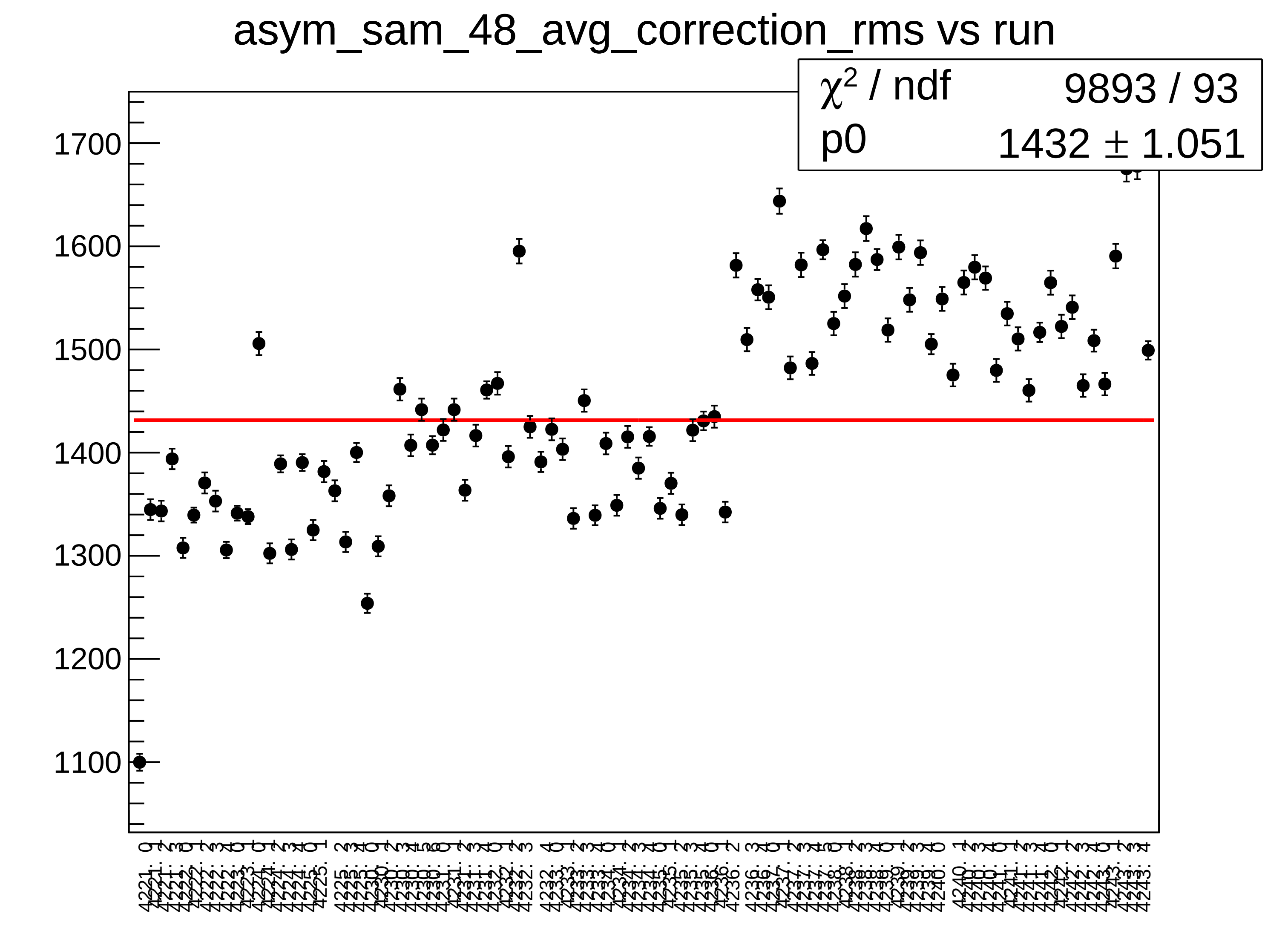
reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.961e+04 / 93
p0 464 ± 0.3415
1400
1200
1000
800
600
400

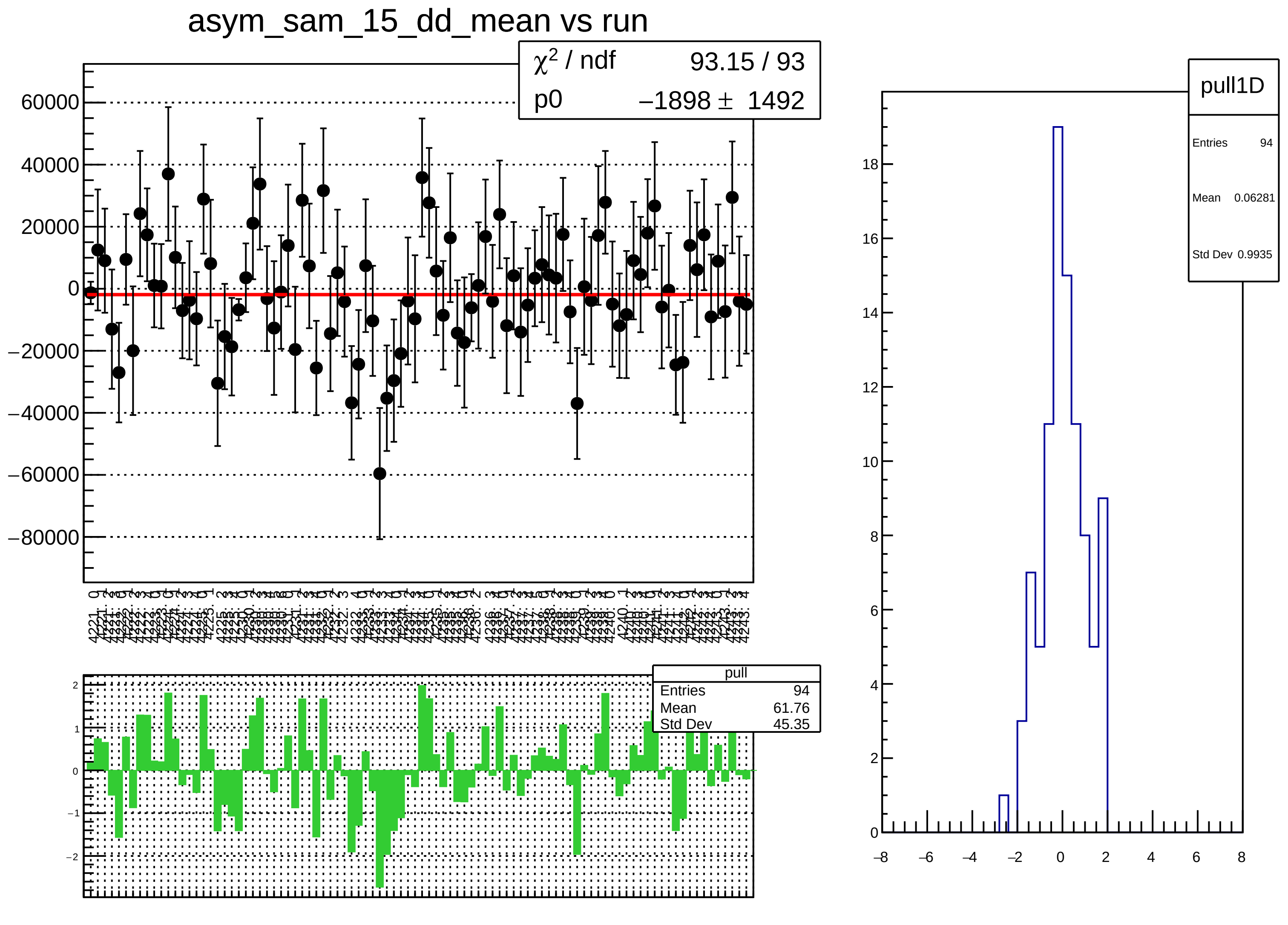


asym_sam_48_avg_correction_mean vs run
χ^2 / ndf 114.4 / 93
p0 −690.7 ± 1486
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 59.09
Std Dev 63.51

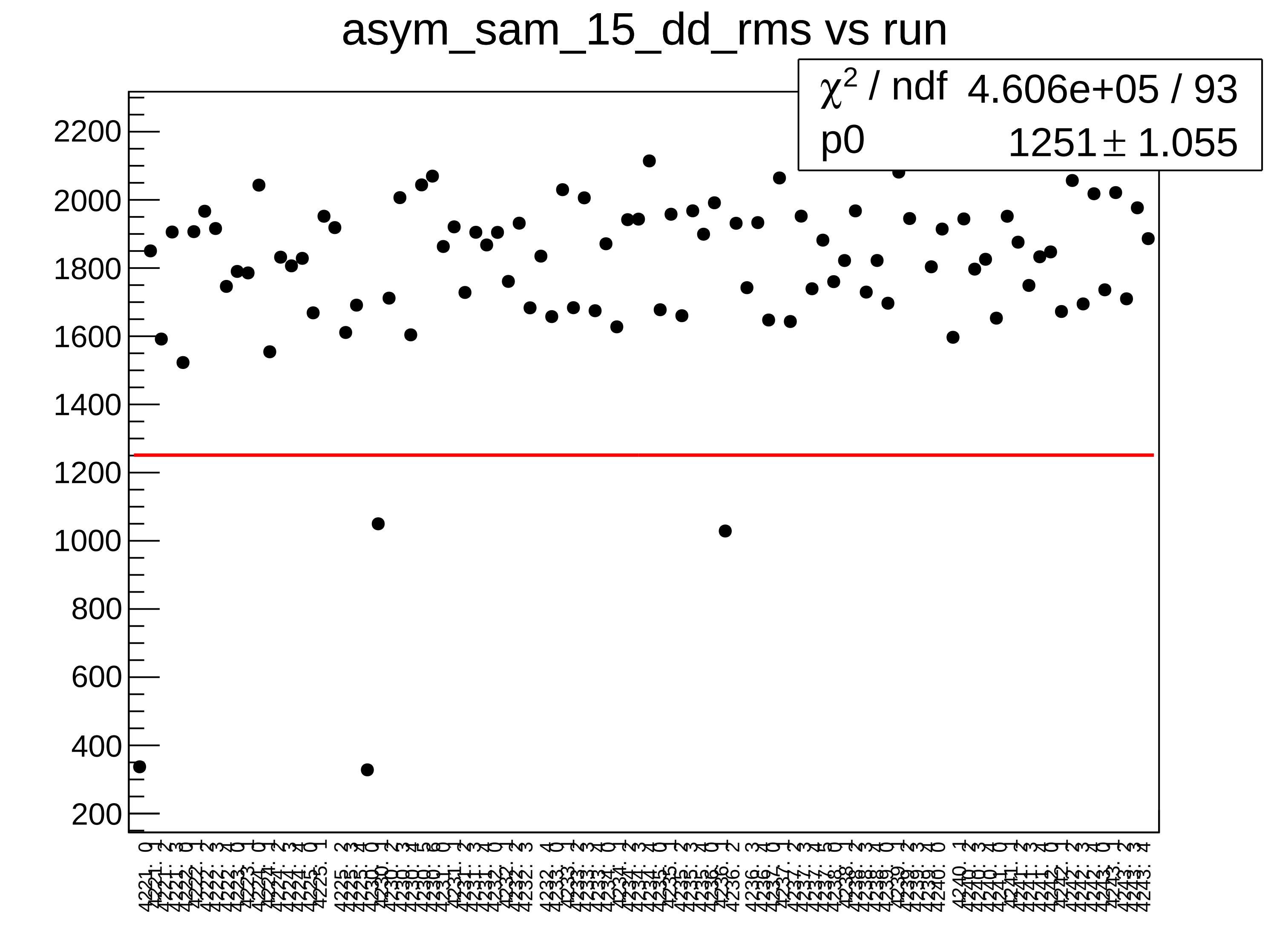


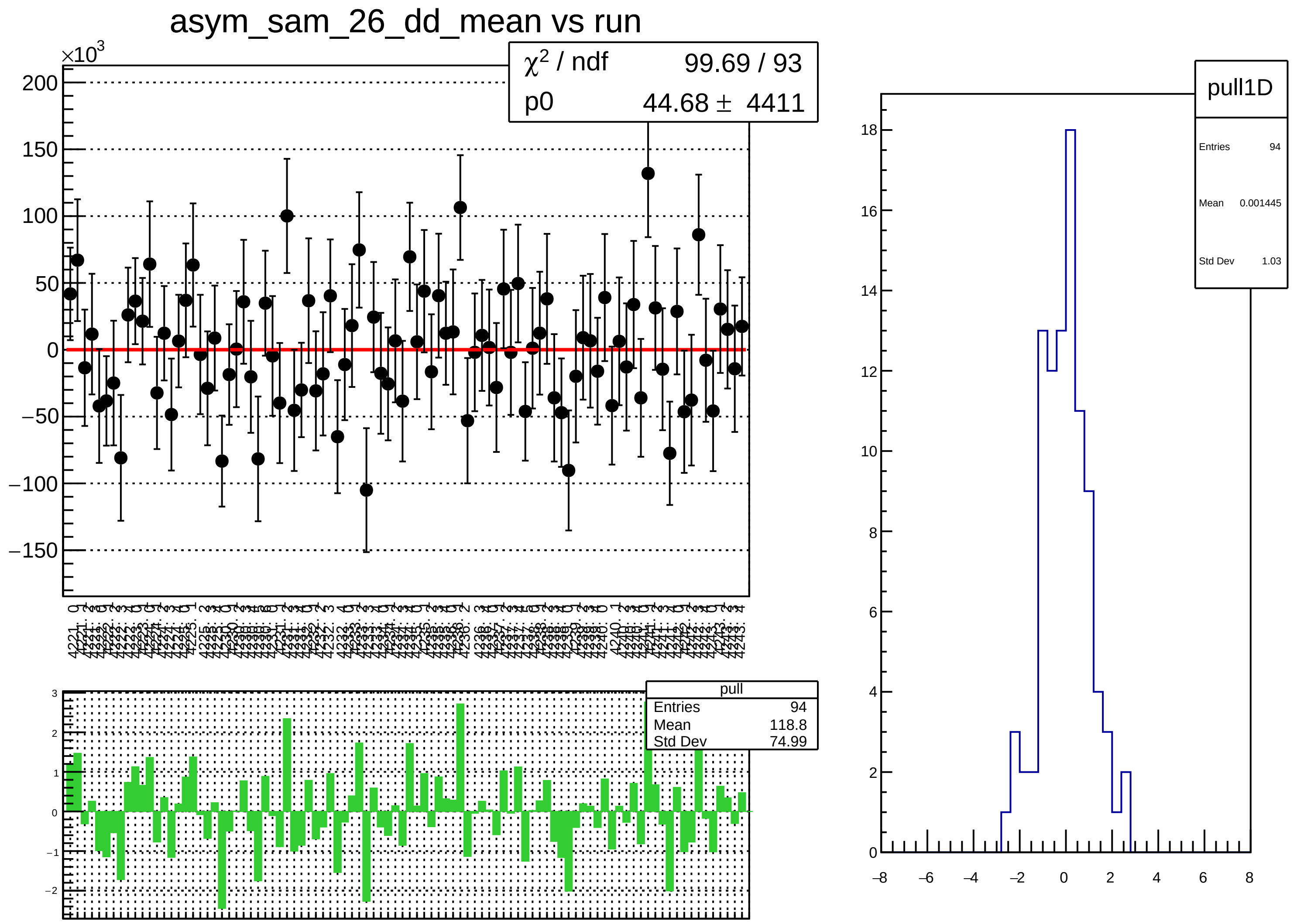
pull1D
Entries 94
Mean 0.01556
Std Dev 1.103


asym_sam_48_avg_correction_rms vs run
χ^2 / ndf 9893 / 93
p0 1432 ± 1.051
1700
1600
1500
1400
1300
1200
1100

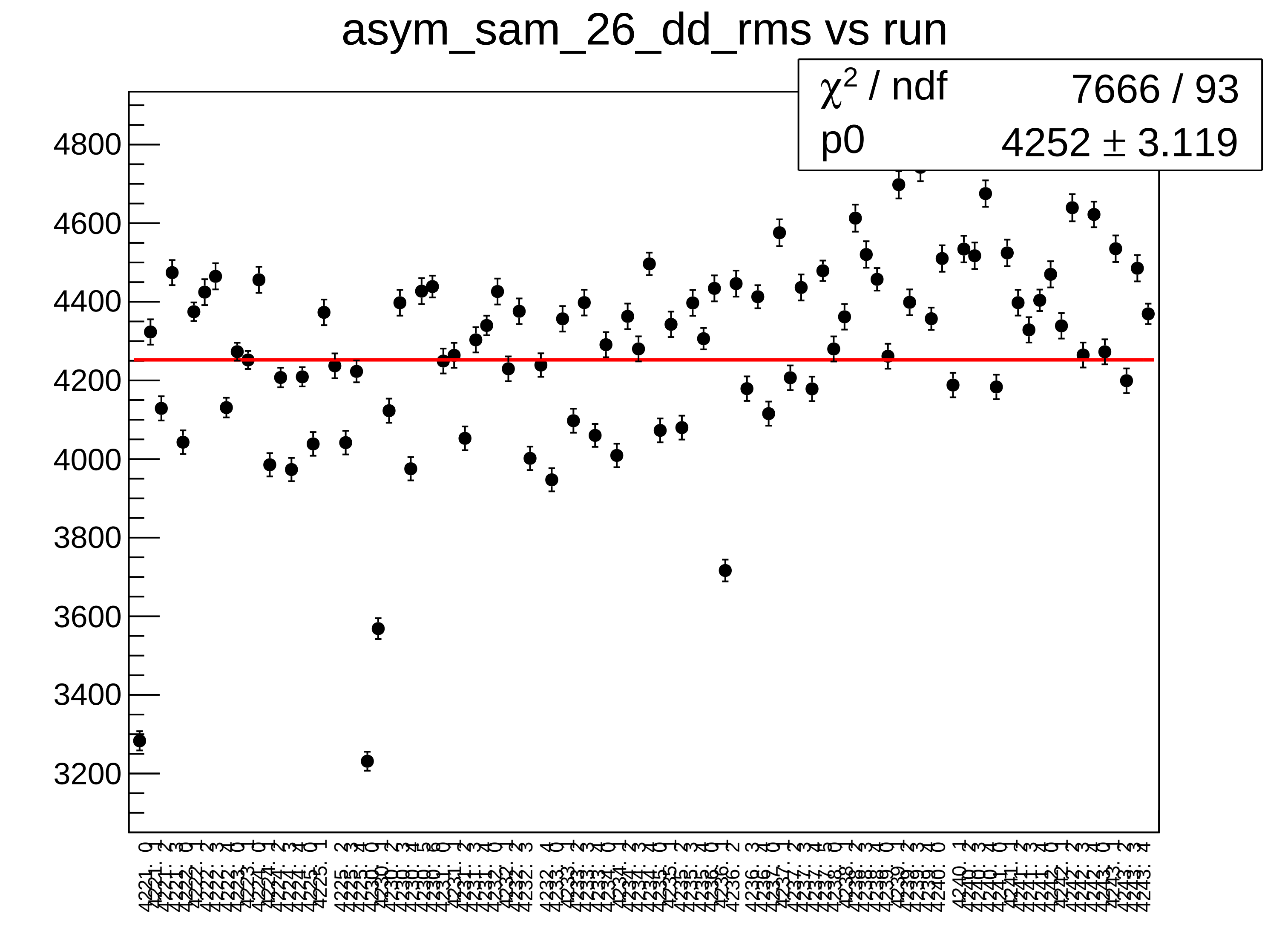


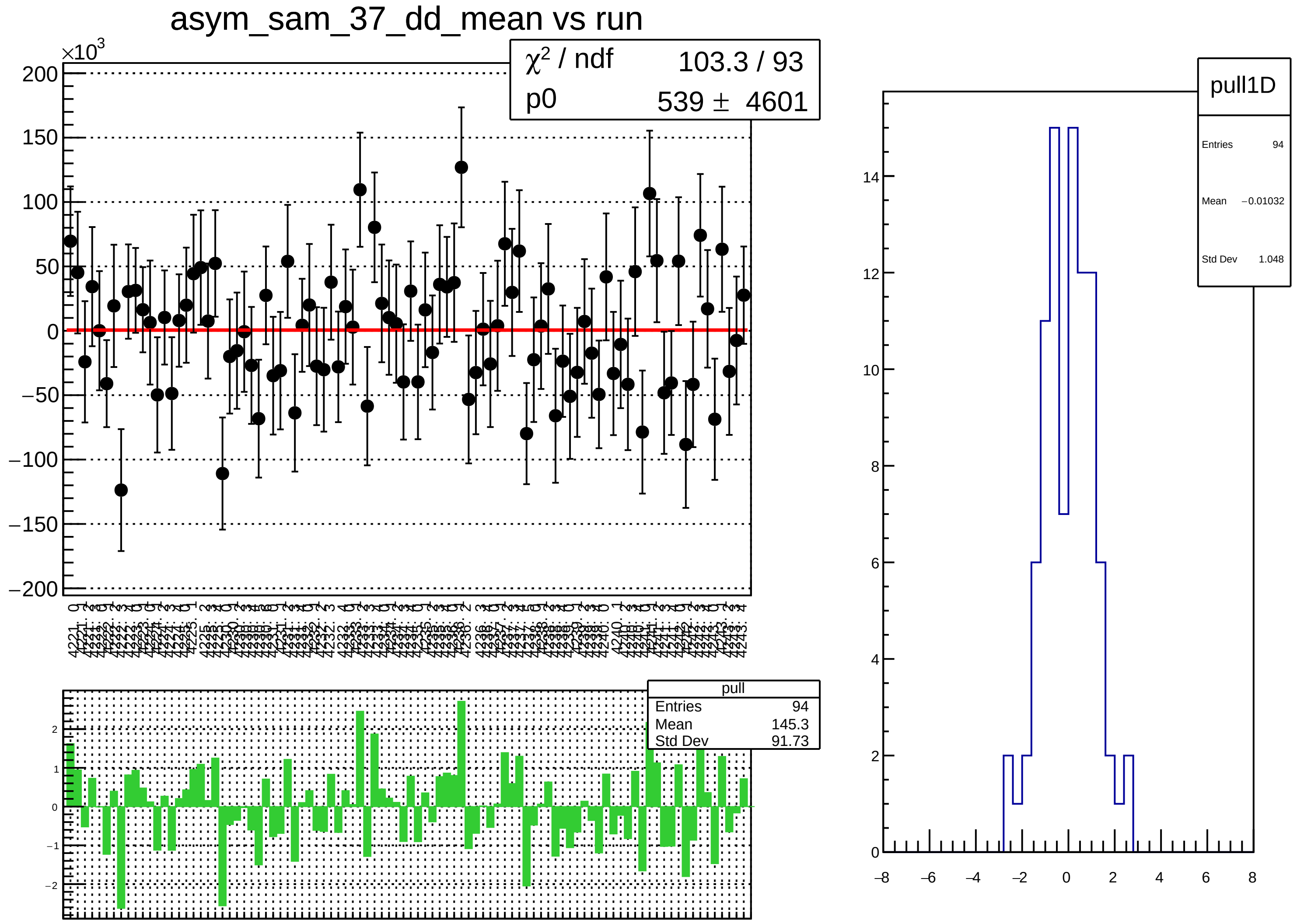
asym_sam_15_dd_mean vs run
χ^2 / ndf 93.15 / 93
p0 −1898 ± 1492
pull
Entries 94
Mean 61.76
Std Dev 45.35
pull1D
Entries 94
Mean 0.06281
Std Dev 0.9935


asym_sam_15_dd_rms vs run
χ2 / ndf 4.606e+05 / 93
p0 1251 ± 1.055
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

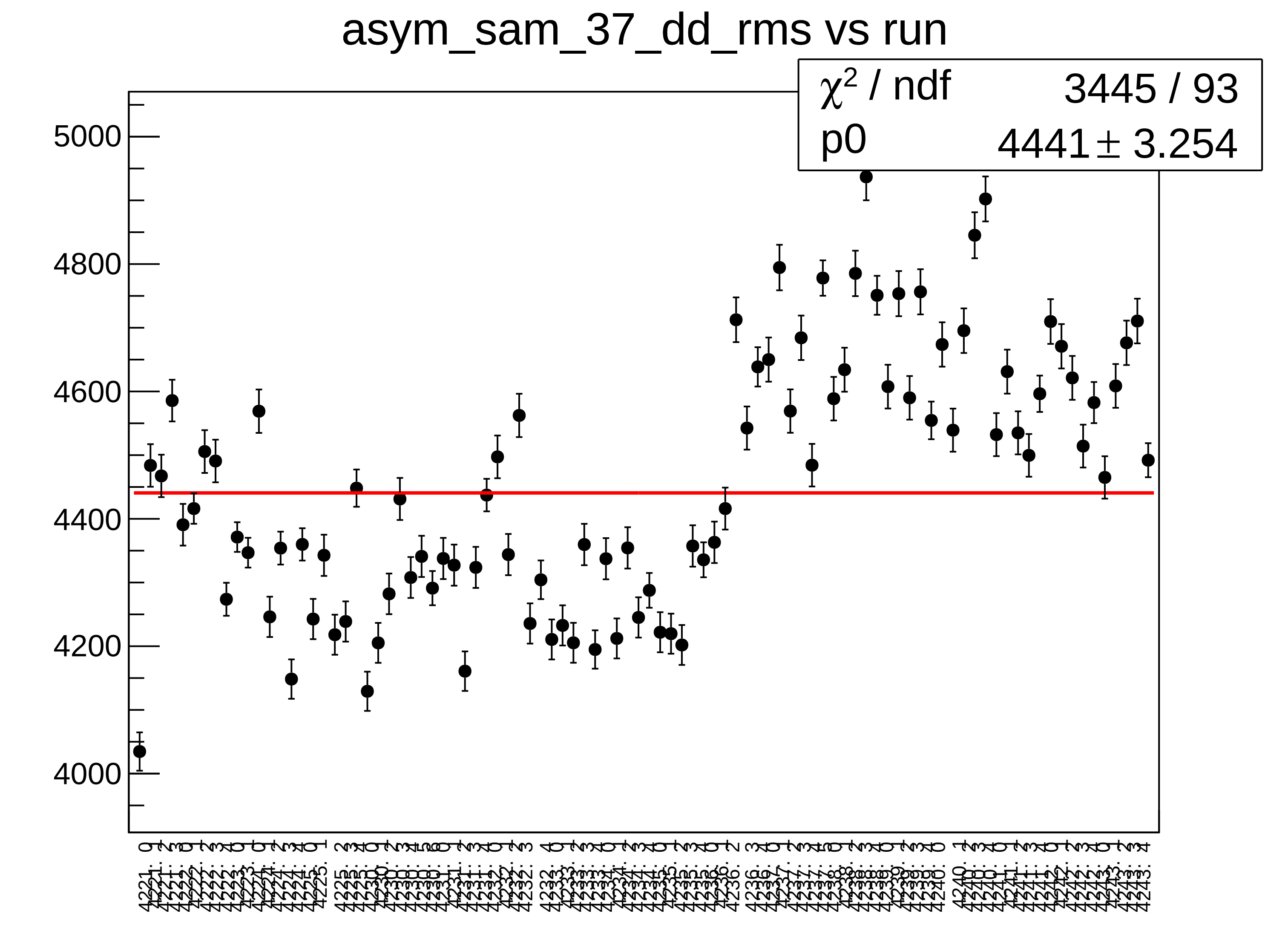


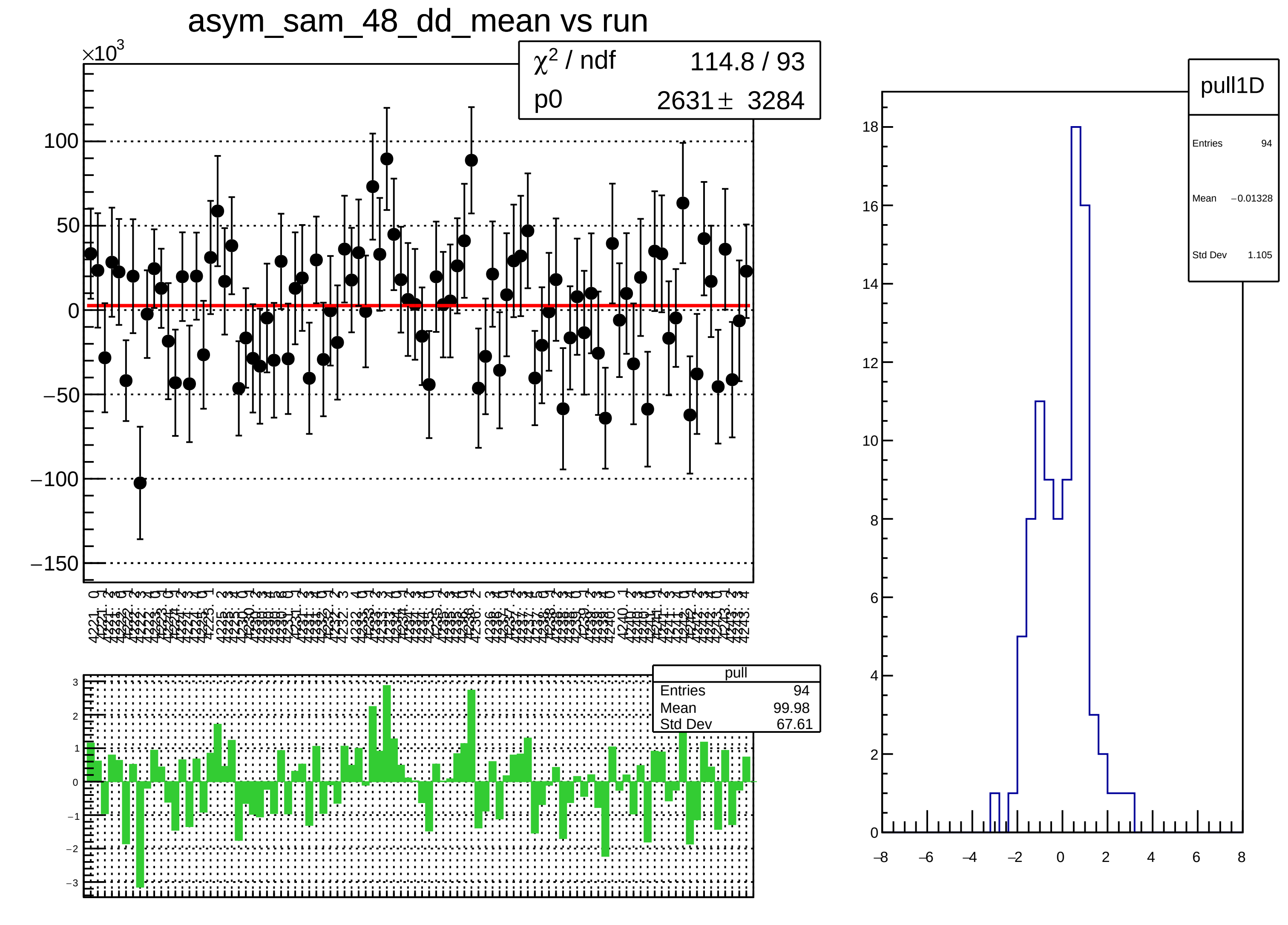
asym_sam_26_dd_mean vs run
×10^3
χ2 / ndf 99.69 / 93
p0 44.68 ± 4411
pull
Entries 94
Mean 118.8
Std Dev 74.99
pull1D
Entries 94
Mean 0.001445
Std Dev 1.03

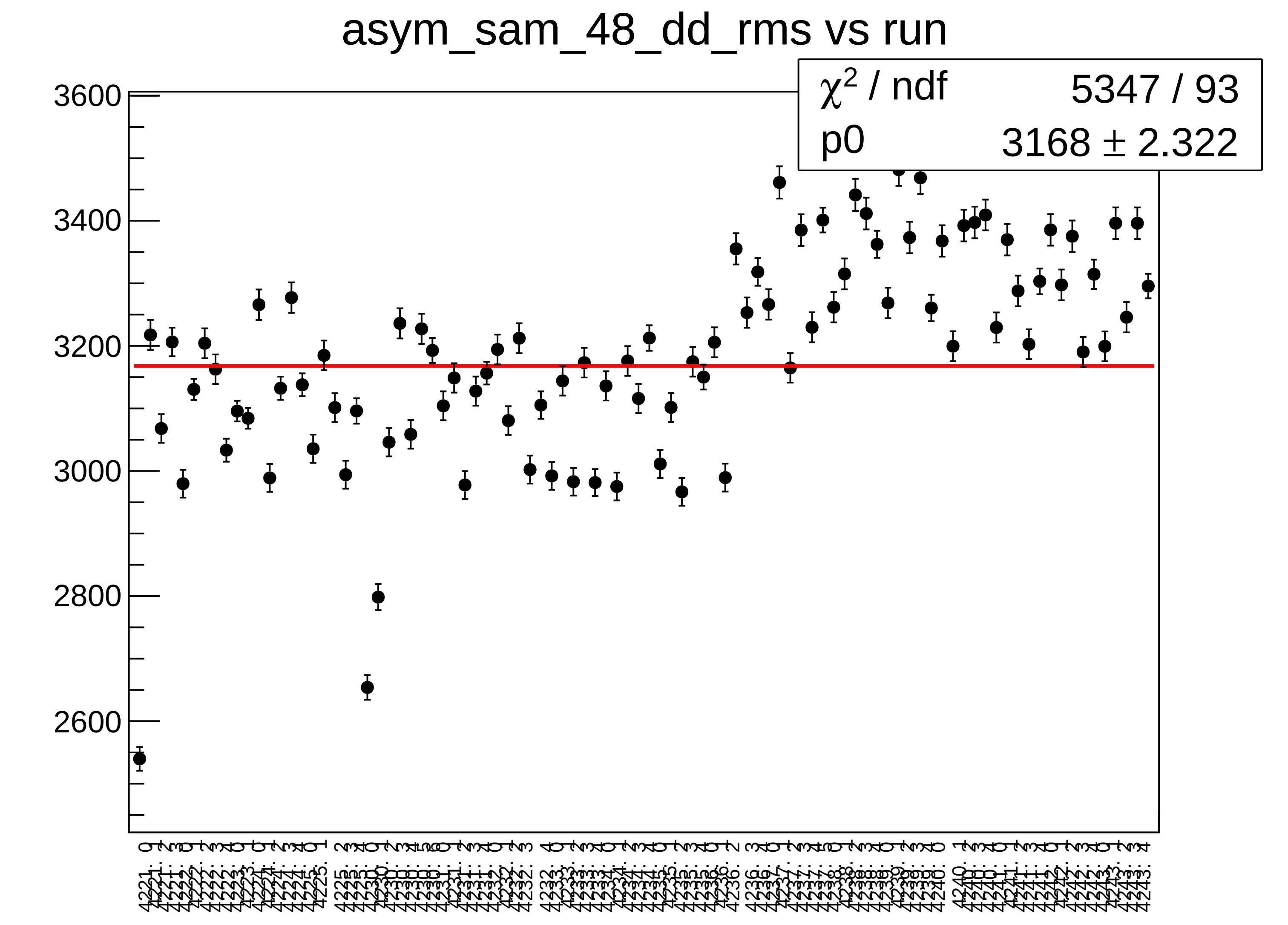

asym_sam_26_dd_rms vs run
χ^2 / ndf 7666 / 93
p0 4252 ± 3.119
4800
4600
4400
4200
4000
3800
3600
3400
3200



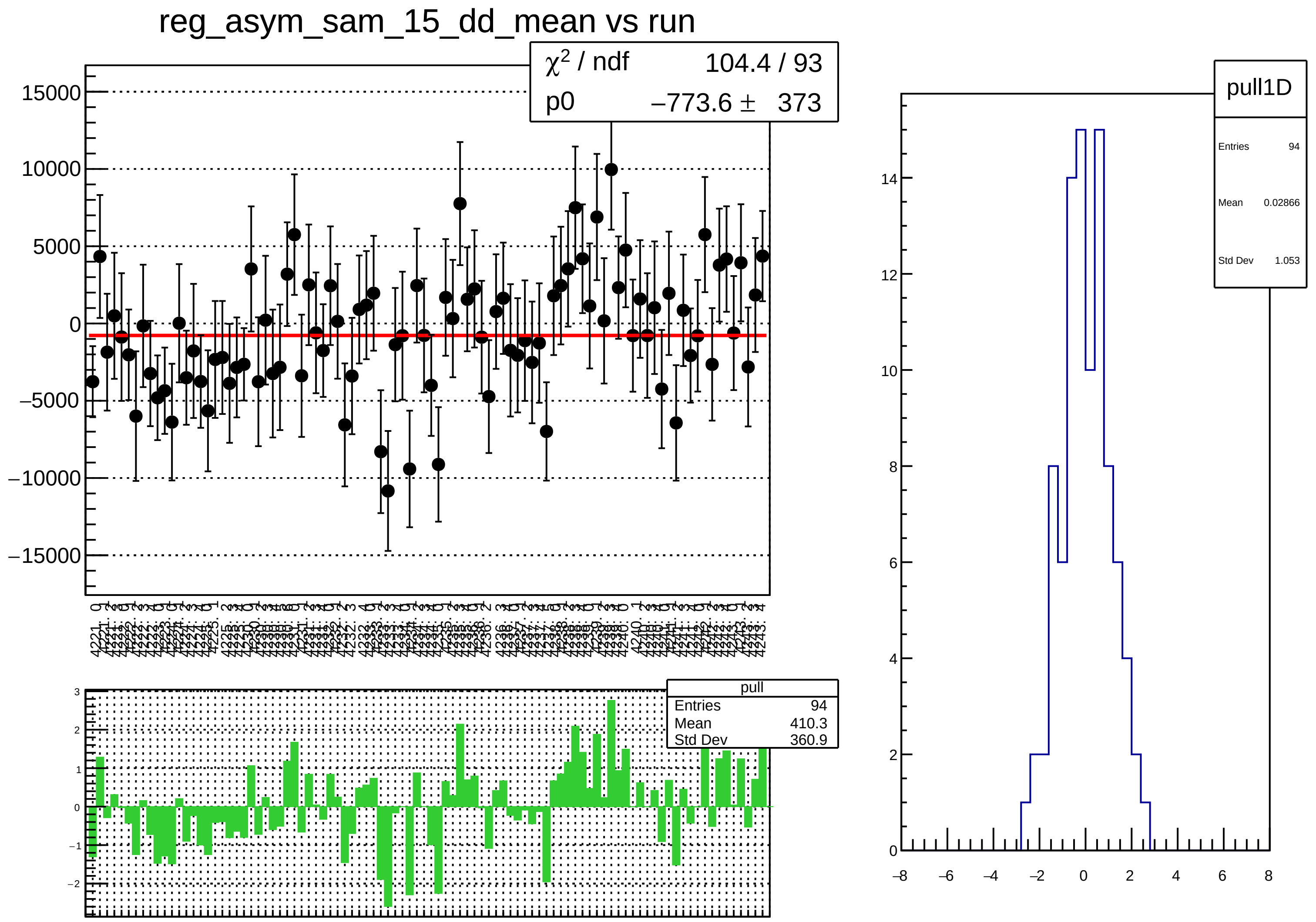
asym_sam_37_dd_mean vs run
χ^2 / ndf 103.3 / 93
p0 539 ± 4601
×10^3
pull
Entries 94
Mean 145.3
Std Dev 91.73
pull1D
Entries 94
Mean −0.01032
Std Dev 1.048


asym_sam_37_dd_rms vs run
χ2 / ndf 3445 / 93
p0 4441 ± 3.254
5000
4800
4600
4400
4200
4000

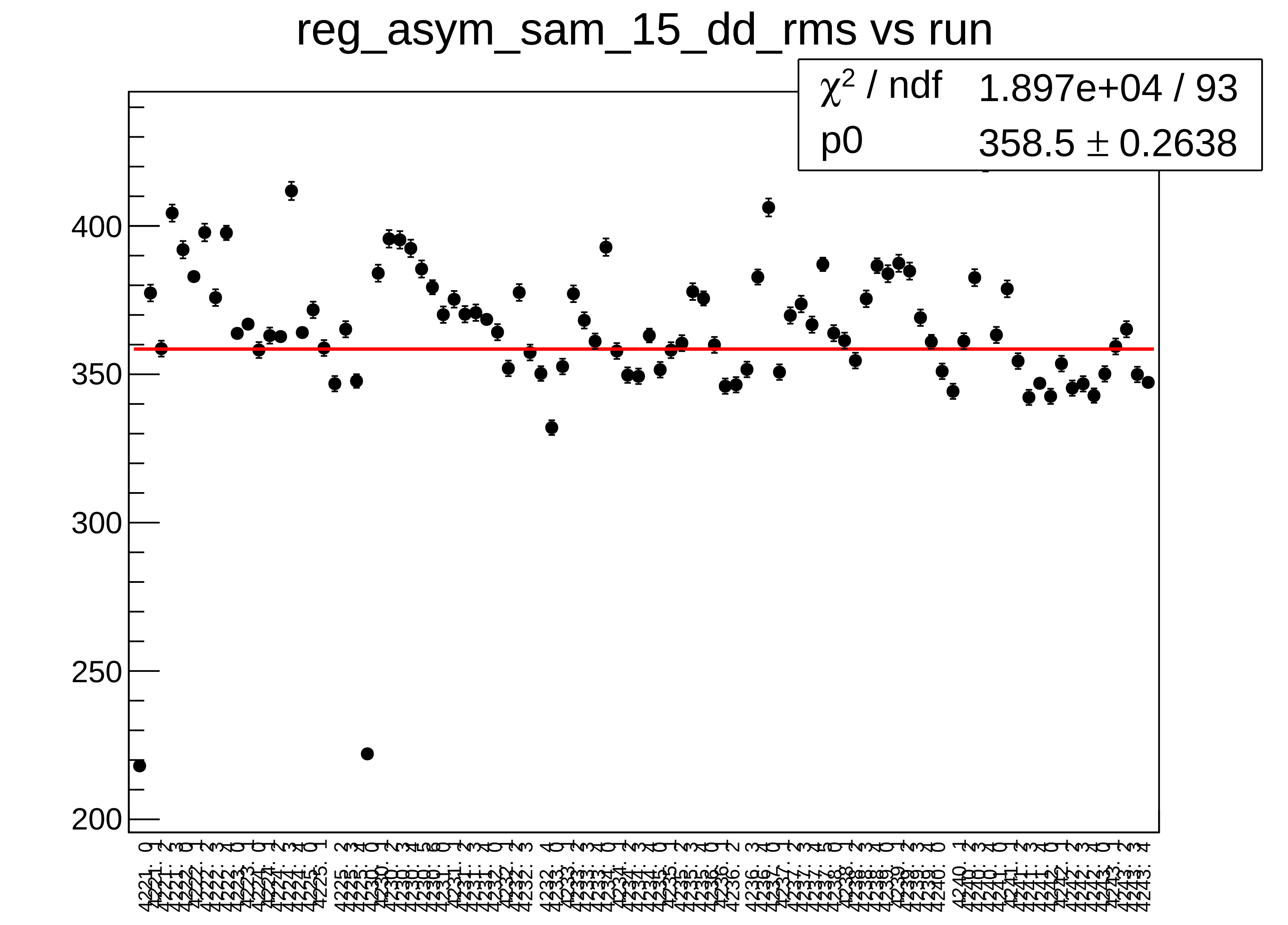

asym_sam_48_dd_mean vs run
χ^2 / ndf 114.8 / 93
p0 2631 ± 3284
×10³
100
50
0
−50
−100
−150
pull
Entries 94
Mean 99.98
Std Dev 67.61
pull1D
Entries 94
Mean −0.01328
Std Dev 1.105



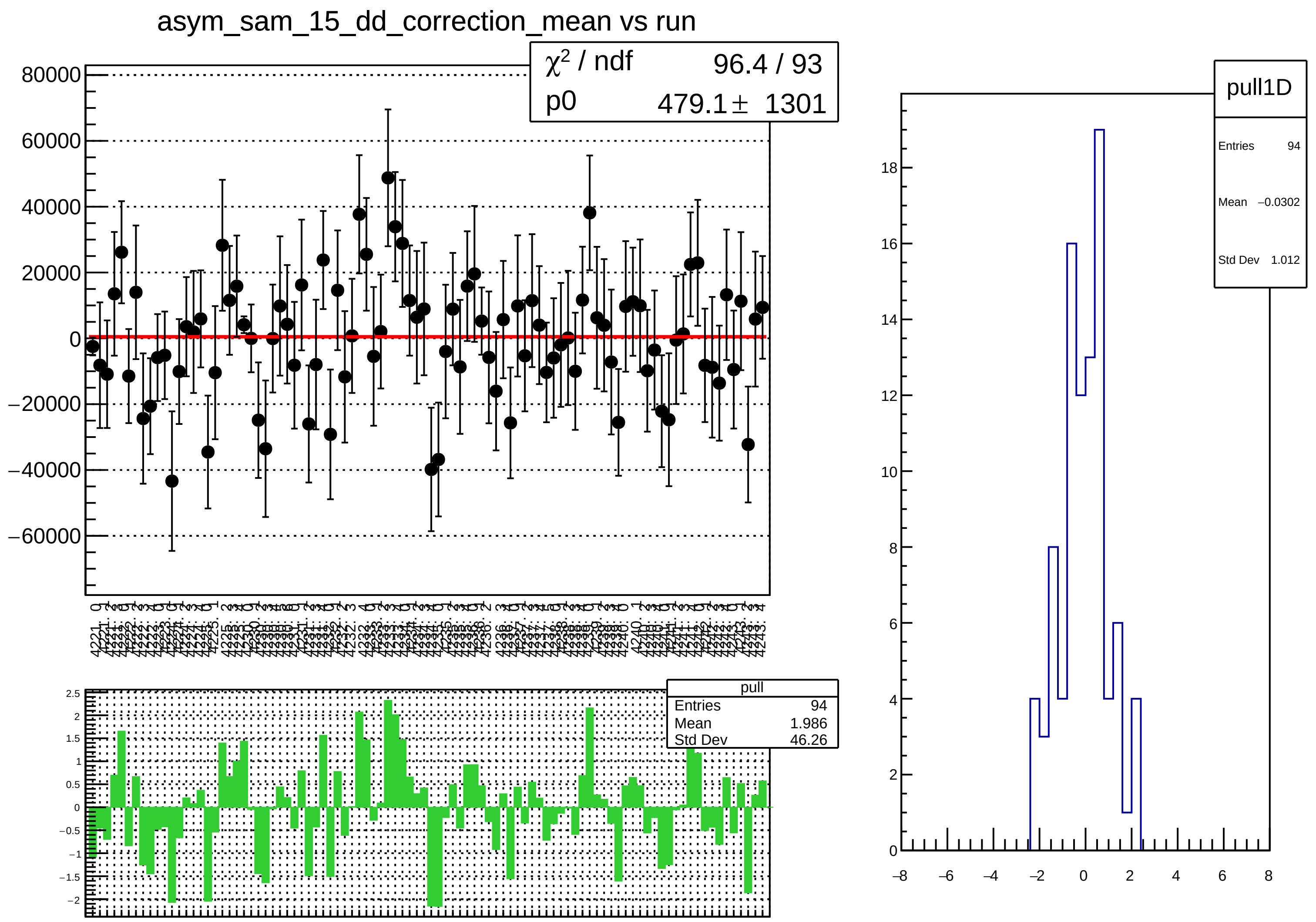
asym_sam_48_dd_rms vs run
χ^2 / ndf 5347 / 93
p0 3168 ± 2.322
3600
3400
3200
3000
2800
2600



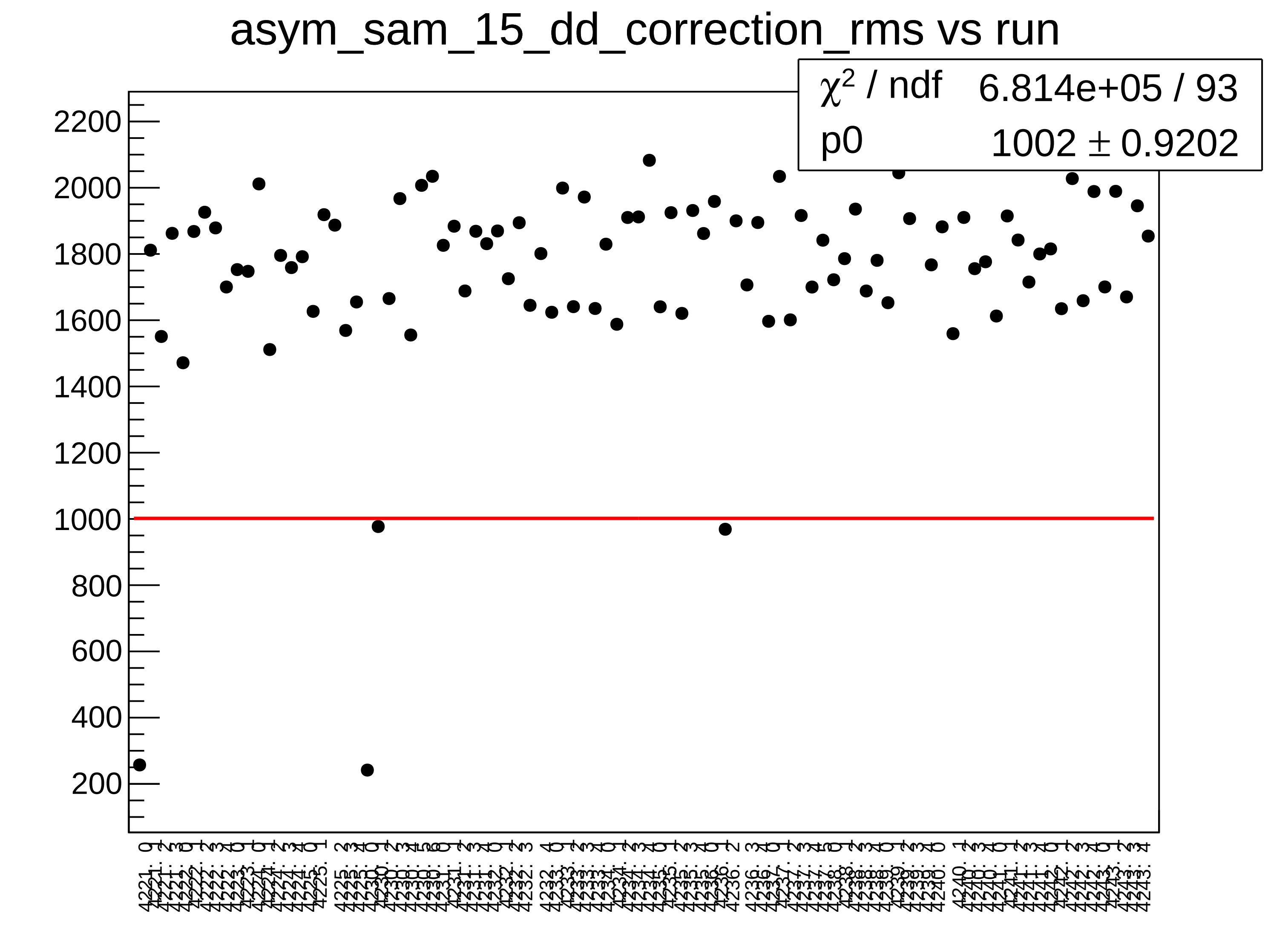
reg_asym_sam_15_dd_mean vs run
χ2 / ndf 104.4 / 93
p0 −773.6 ± 373
pull
Entries 94
Mean 410.3
Std Dev 360.9
pull1D
Entries 94
Mean 0.02866
Std Dev 1.053



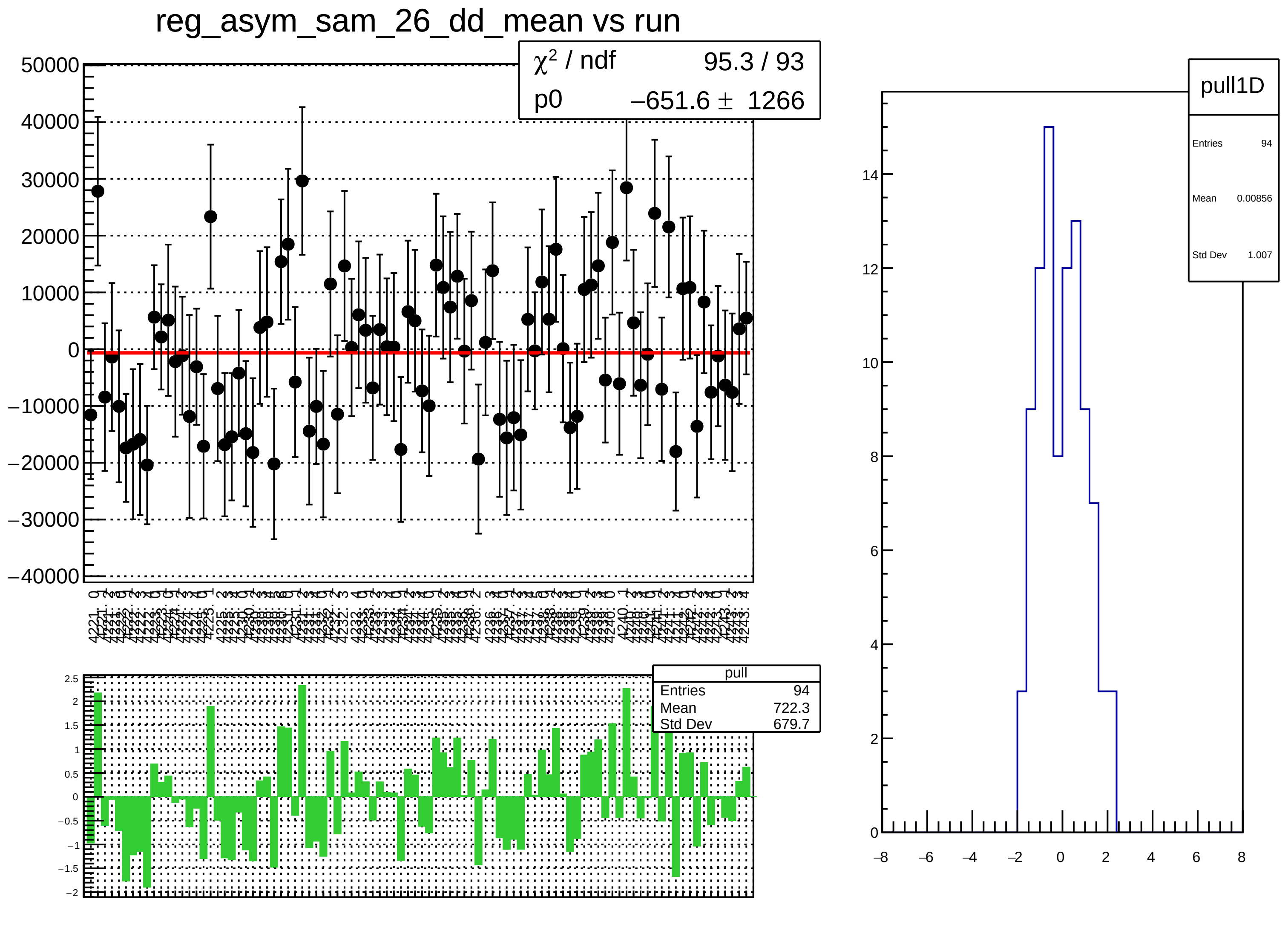
reg_asym_sam_15_dd_rms vs run
χ2 / ndf 1.897e+04 / 93
p0 358.5 ± 0.2638
400
350
300
250
200

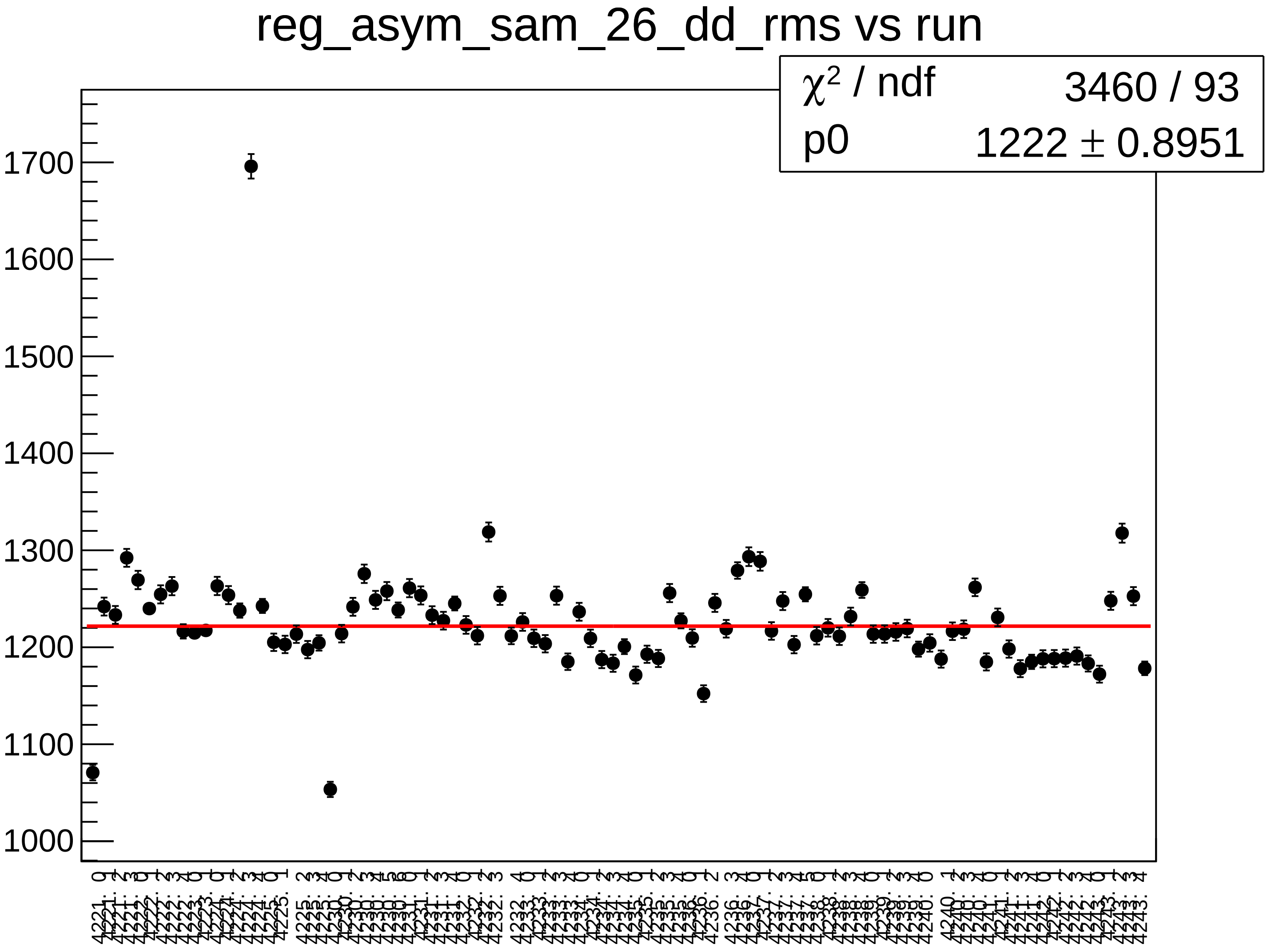


asym_sam_15_dd_correction_mean vs run
χ^2 / ndf 96.4 / 93
p0 479.1 ± 1301
pull
Entries 94
Mean 1.986
Std Dev 46.26
pull1D
Entries 94
Mean −0.0302
Std Dev 1.012

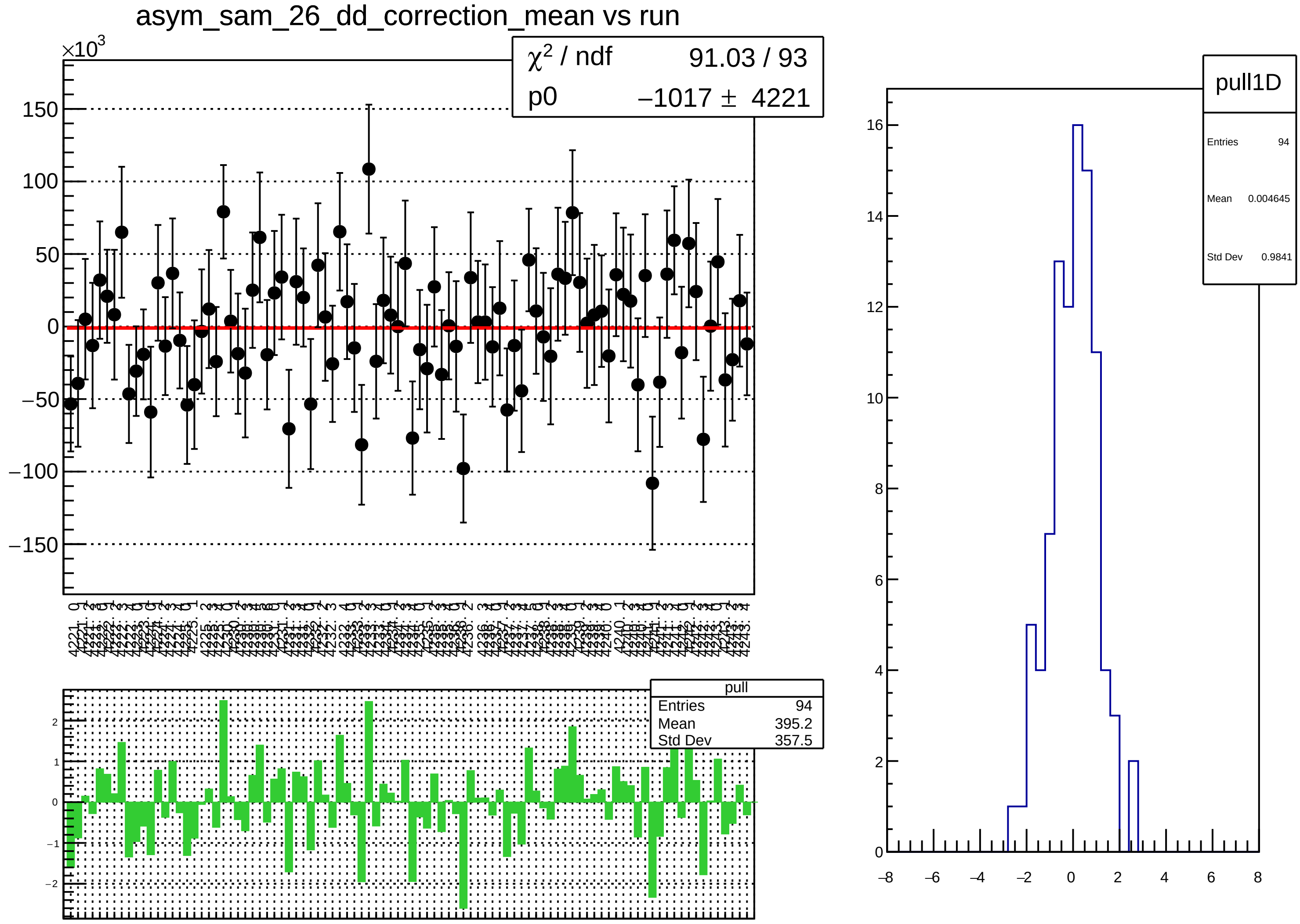


asym_sam_15_dd_correction_rms vs run
χ^2 / ndf 6.814e+05 / 93
p0 1002 ± 0.9202

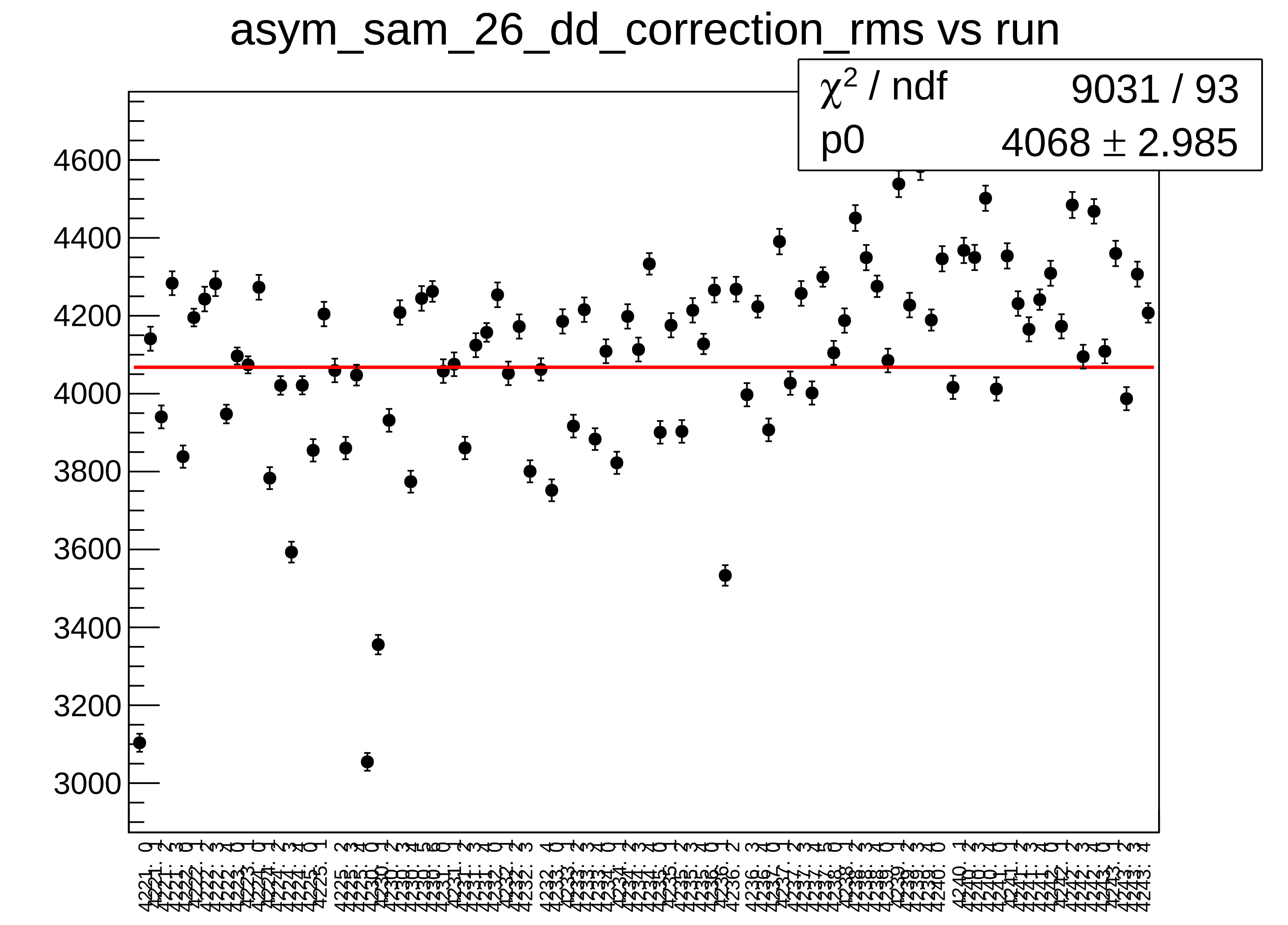

reg_asym_sam_26_dd_mean vs run
χ^2 / ndf 95.3 / 93
p0 −651.6 ± 1266
pull
Entries 94
Mean 722.3
Std Dev 679.7
pull1D
Entries 94
Mean 0.00856
Std Dev 1.007



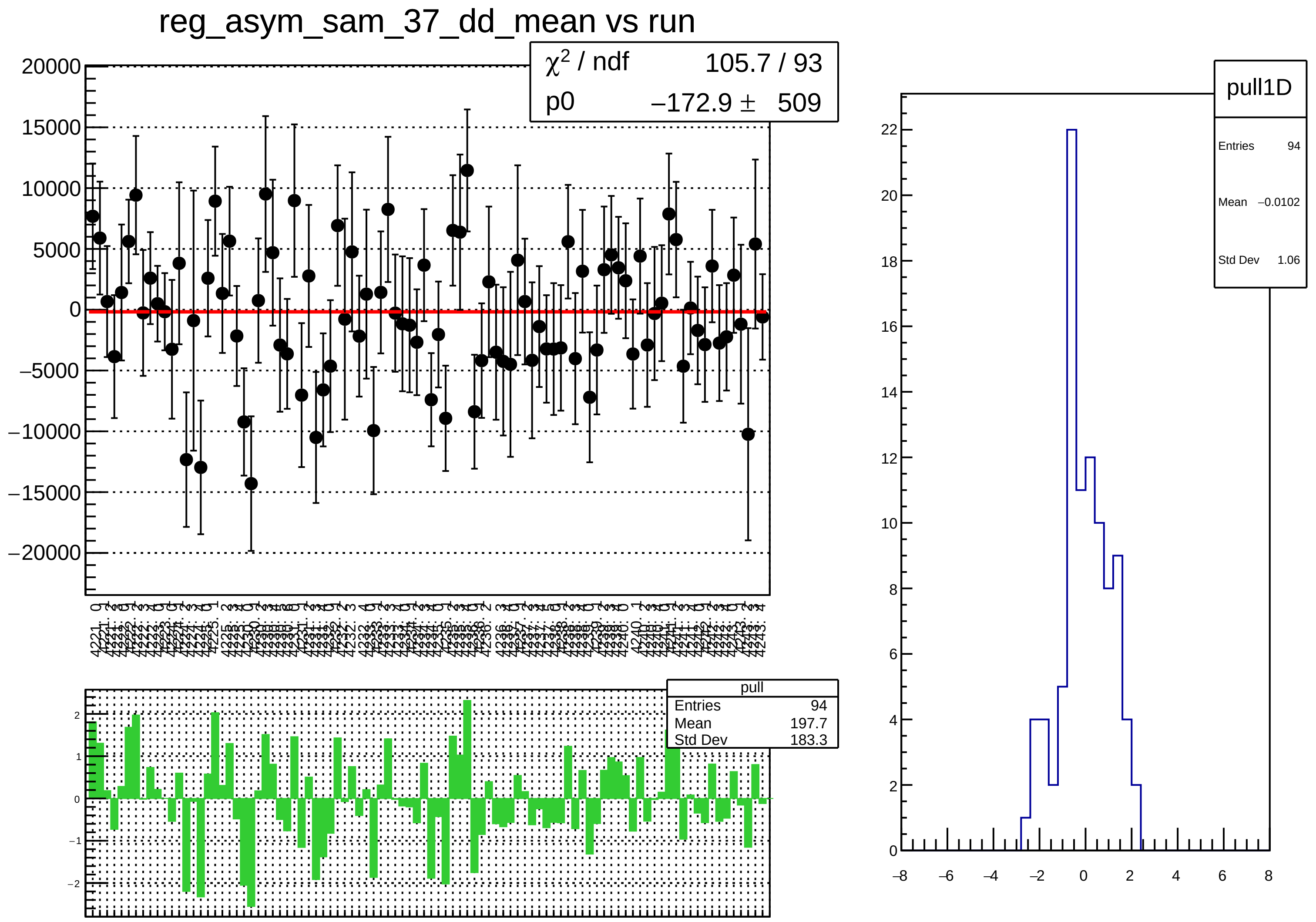
reg_asym_sam_26_dd_rms vs run
χ2 / ndf 3460 / 93
p0 1222 ± 0.8951
1000
1100
1200
1300
1400
1500
1600
1700



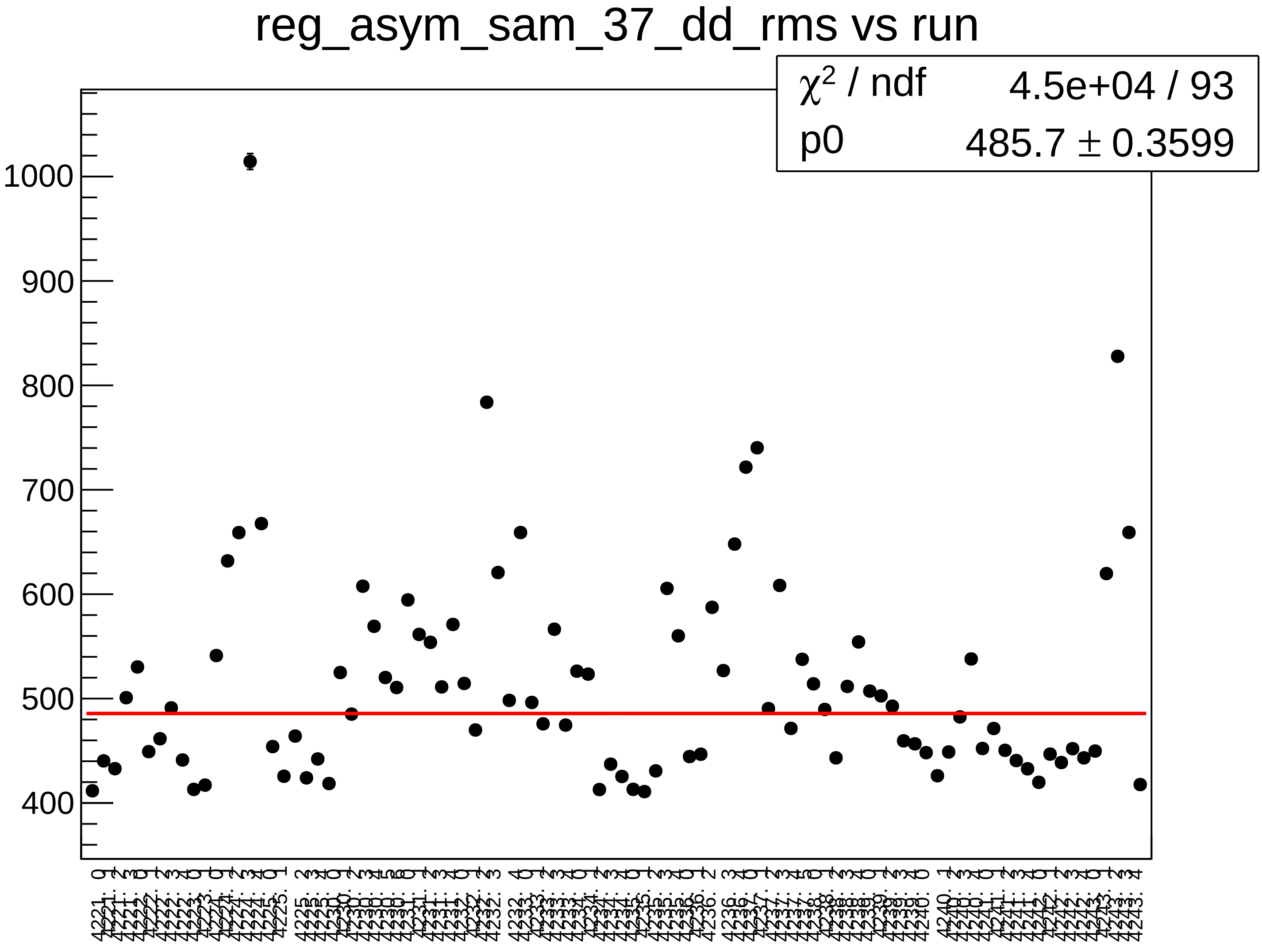
asym_sam_26_dd_correction_mean vs run
×10^3
χ^2 / ndf 91.03 / 93
p0 −1017 ± 4221
pull
Entries 94
Mean 395.2
Std Dev 357.5
pull1D
Entries 94
Mean 0.004645
Std Dev 0.9841

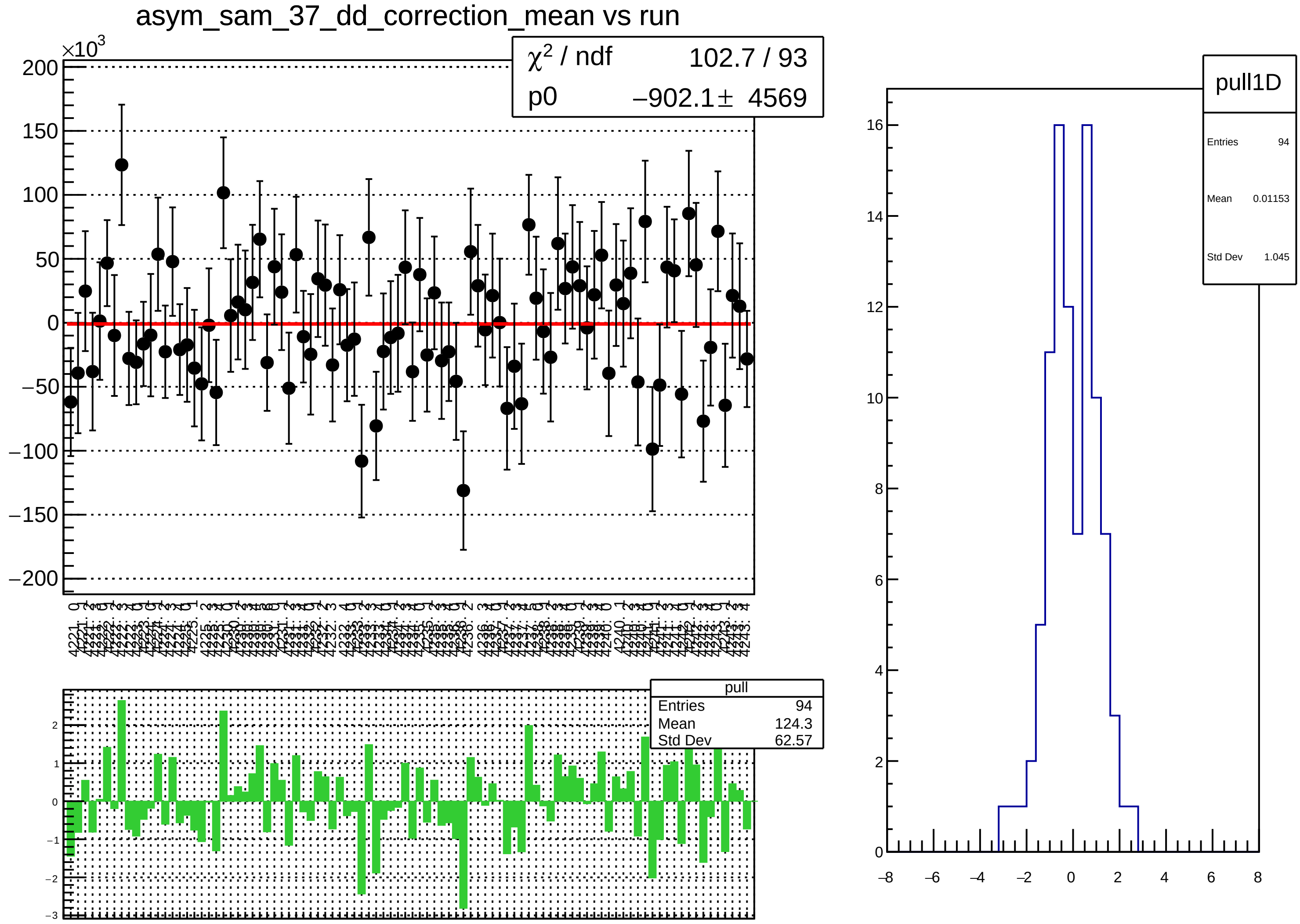


asym_sam_26_dd_correction_rms vs run
χ^2 / ndf 9031 / 93
p0 4068 ± 2.985



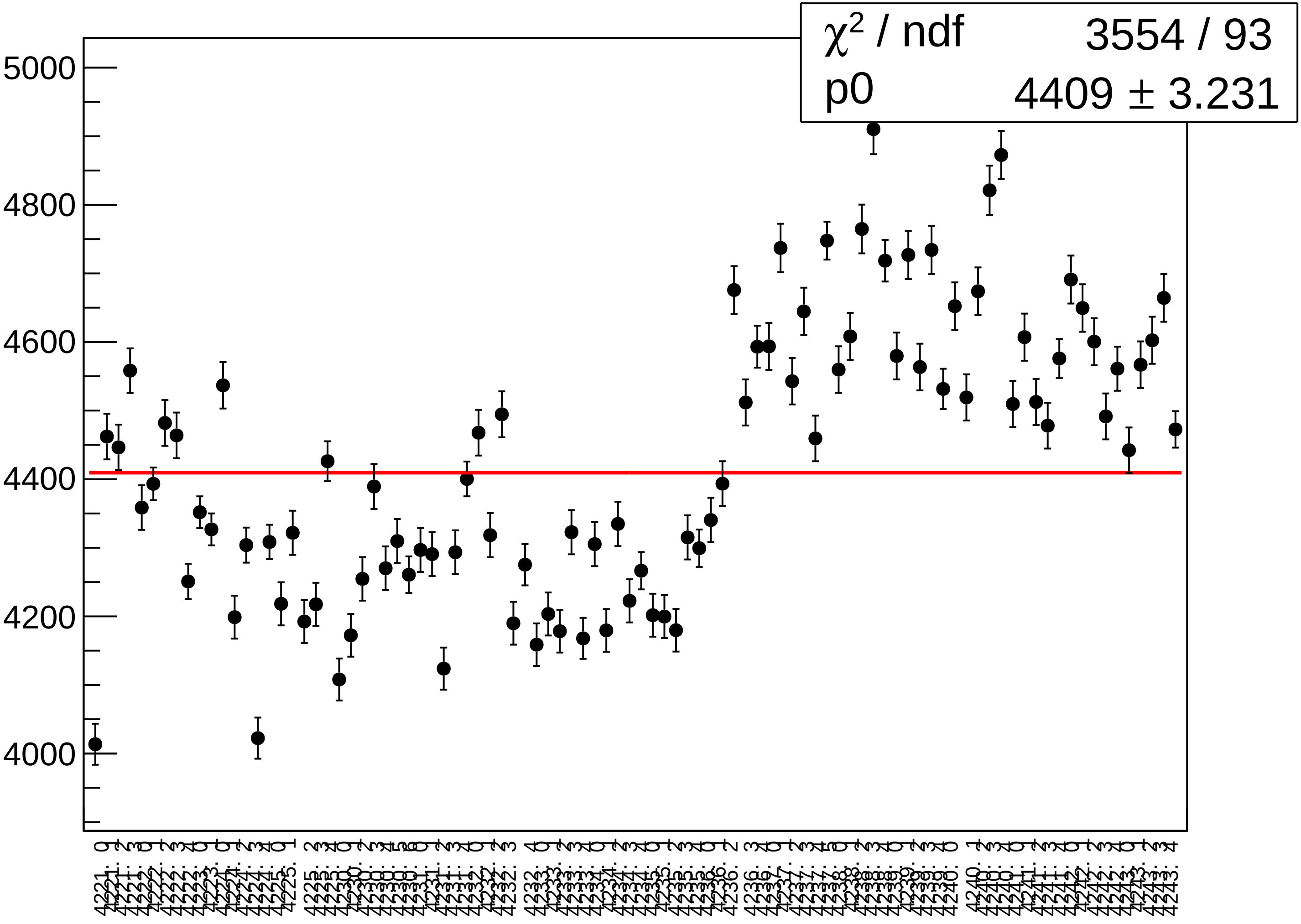
reg_asym_sam_37_dd_mean vs run
χ2 / ndf 105.7 / 93
p0 −172.9 ± 509
pull
Entries 94
Mean 197.7
Std Dev 183.3
pull1D
Entries 94
Mean −0.0102
Std Dev 1.06

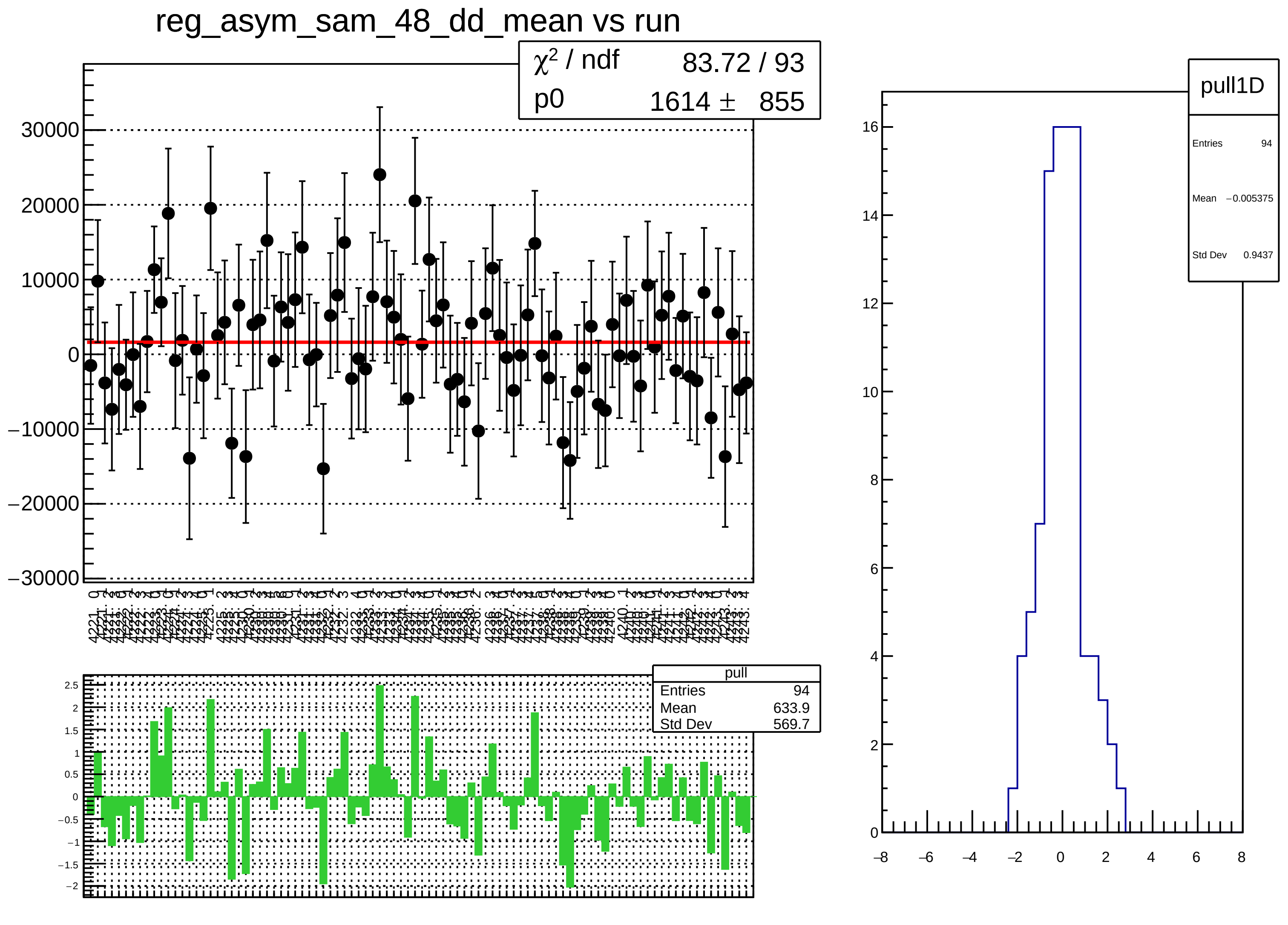

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 4.5e+04 / 93
p0 485.7 ± 0.3599
1000
900
800
700
600
500
400



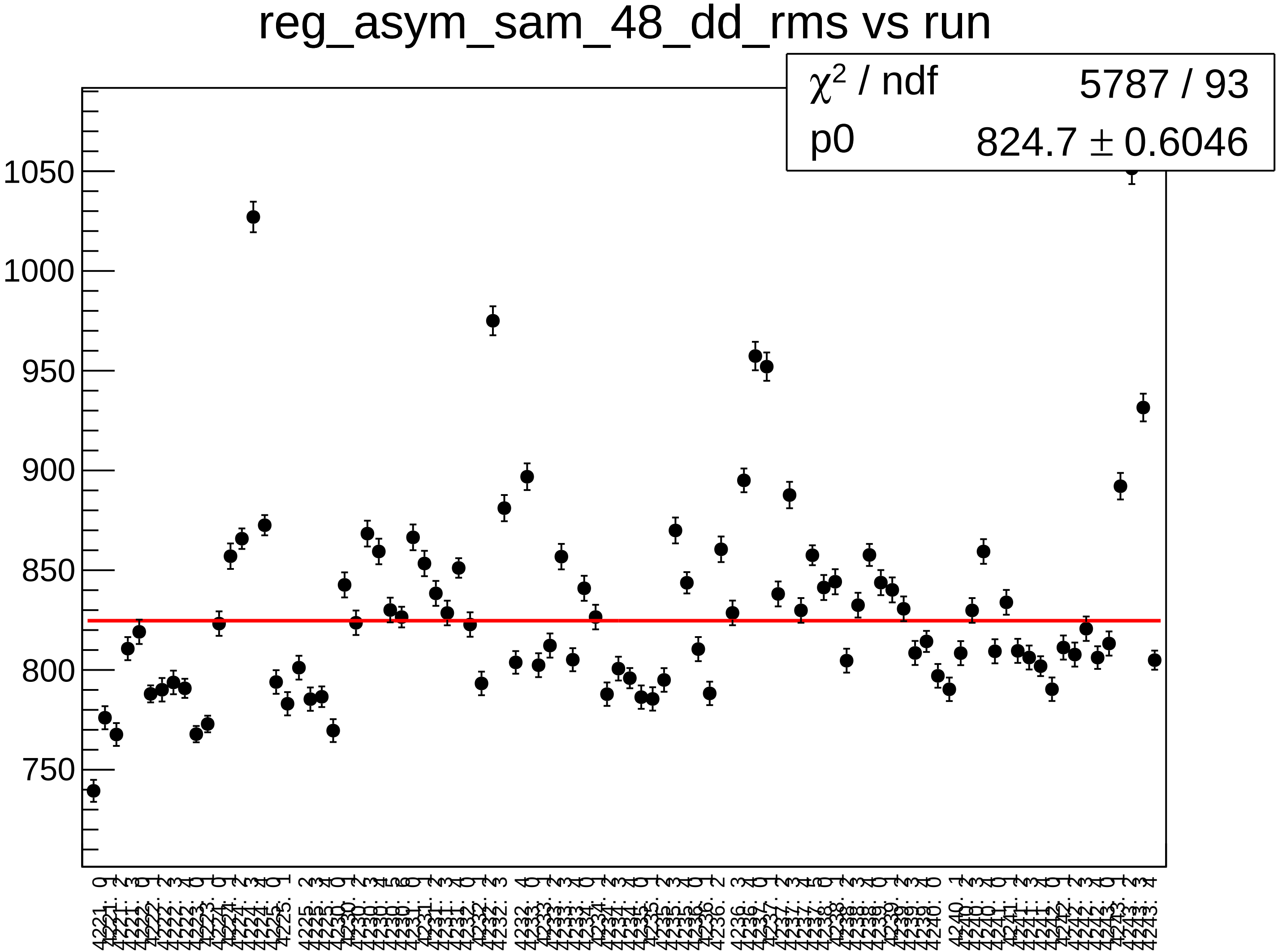
asym_sam_37_dd_correction_mean vs run
×10^3
χ^2 / ndf 102.7 / 93
p0 −902.1 ± 4569
pull
Entries 94
Mean 124.3
Std Dev 62.57
pull1D
Entries 94
Mean 0.01153
Std Dev 1.045

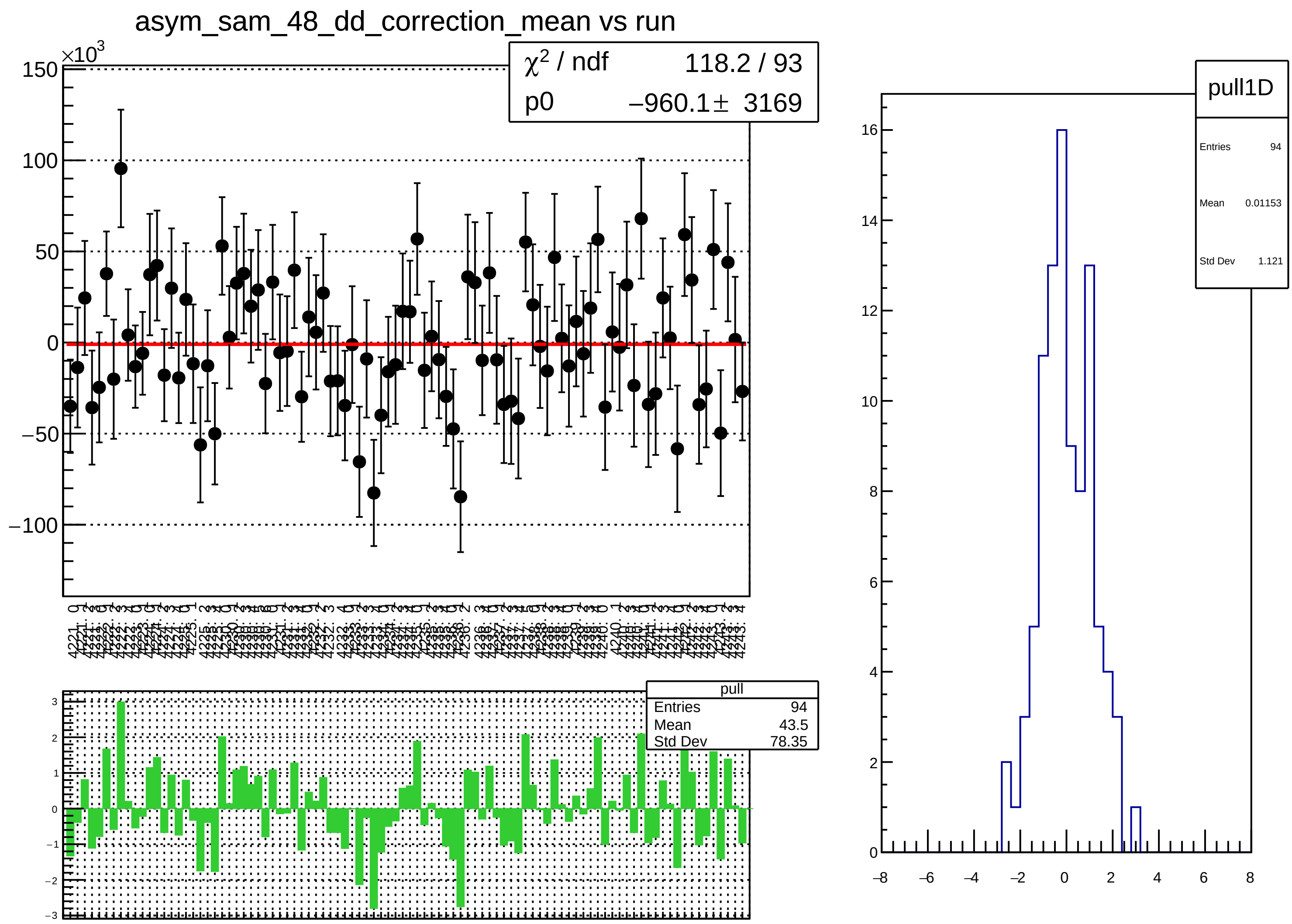
asym_sam_37_dd_correction_rms vs run



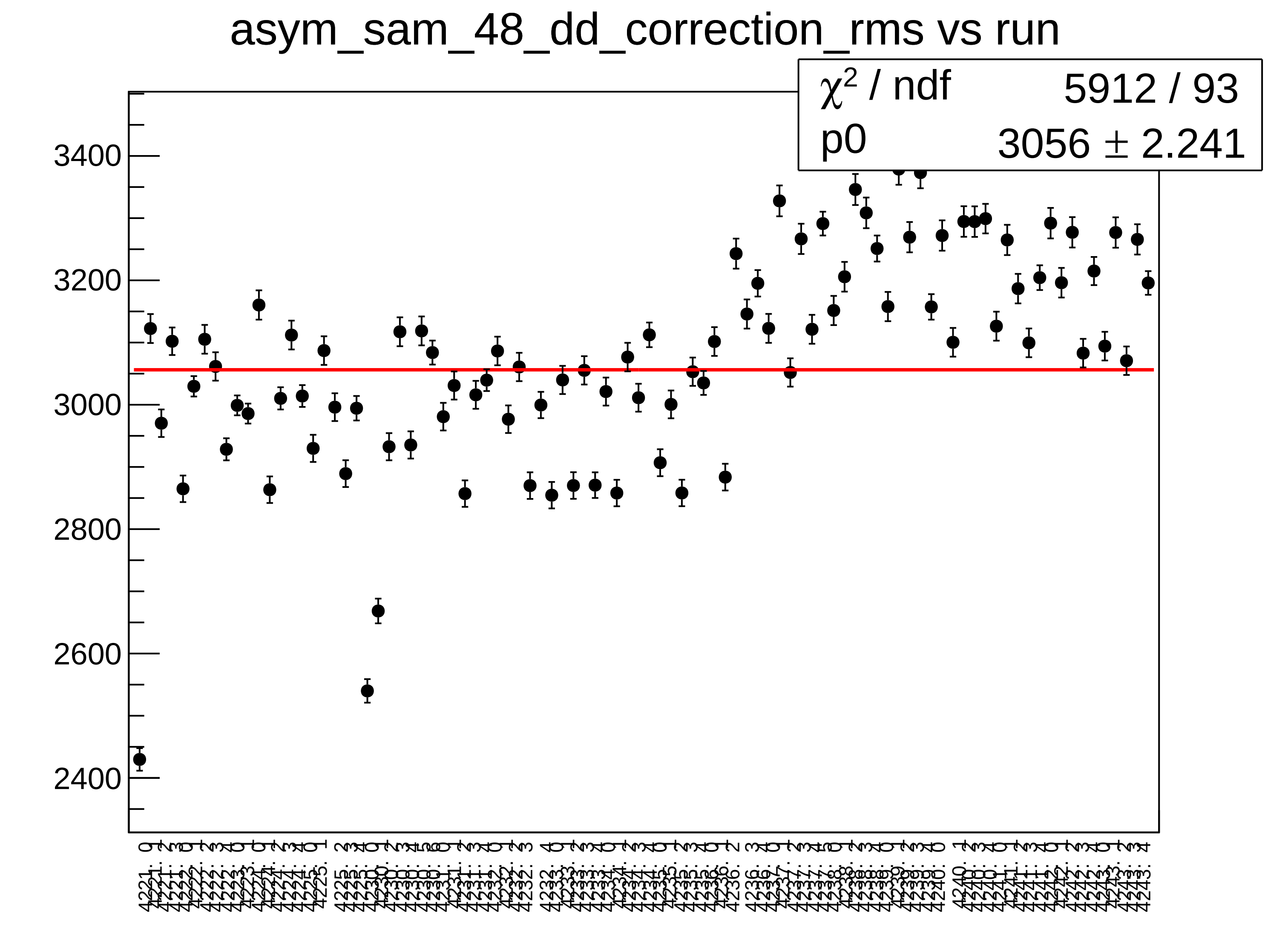


reg_asym_sam_48_dd_mean vs run
χ^2 / ndf 83.72 / 93
p0 1614 ± 855
pull
Entries 94
Mean 633.9
Std Dev 569.7
pull1D
Entries 94
Mean −0.005375
Std Dev 0.9437

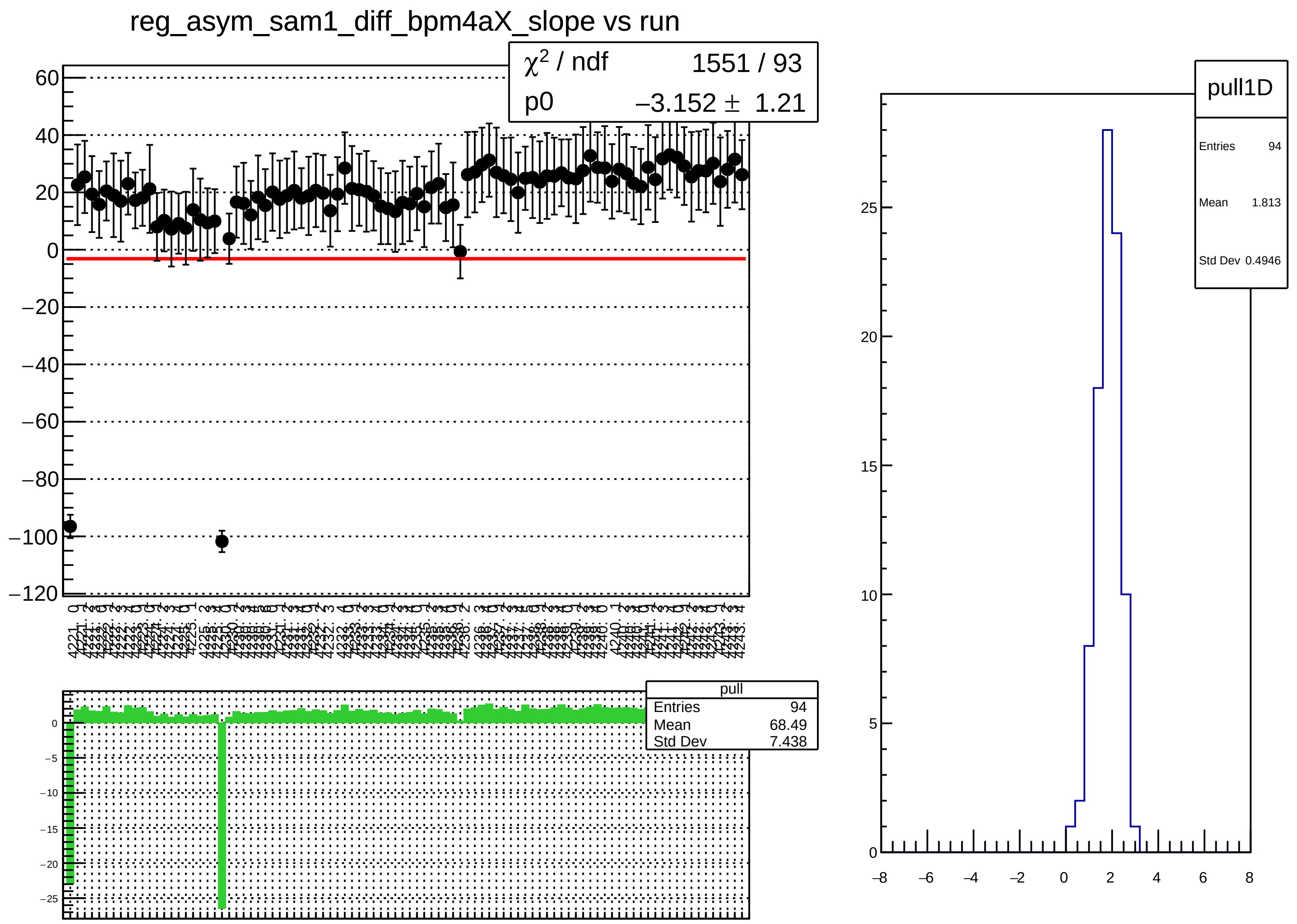

reg_asym_sam_48_dd_rms vs run
χ2 / ndf 5787 / 93
p0 824.7 ± 0.6046
1050
1000
950
900
850
800
750



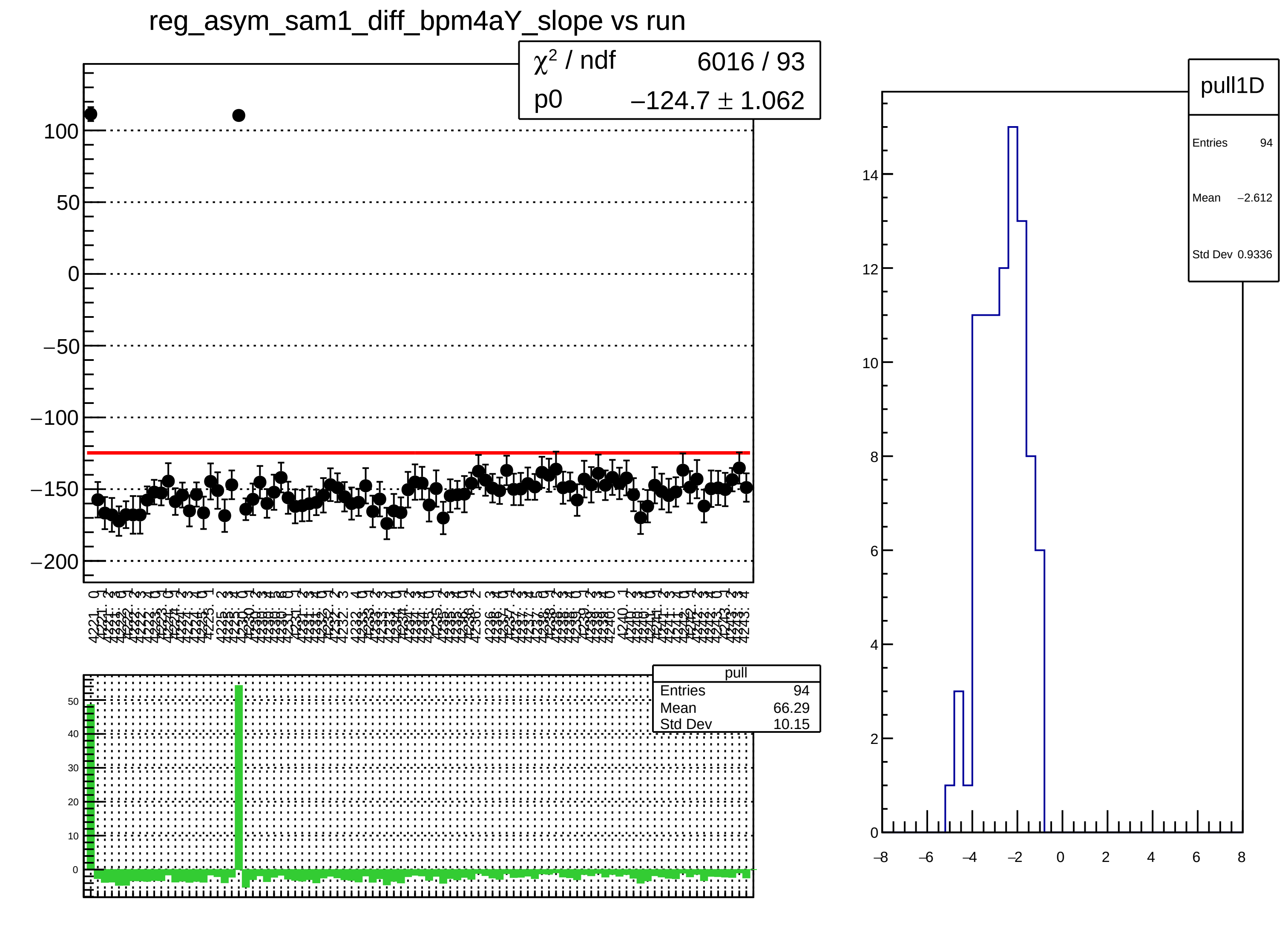
asym_sam_48_dd_correction_mean vs run
χ^2 / ndf 118.2 / 93
p0 −960.1 ± 3169
×10³
pull
Entries 94
Mean 43.5
Std Dev 78.35
pull1D
Entries 94
Mean 0.01153
Std Dev 1.121



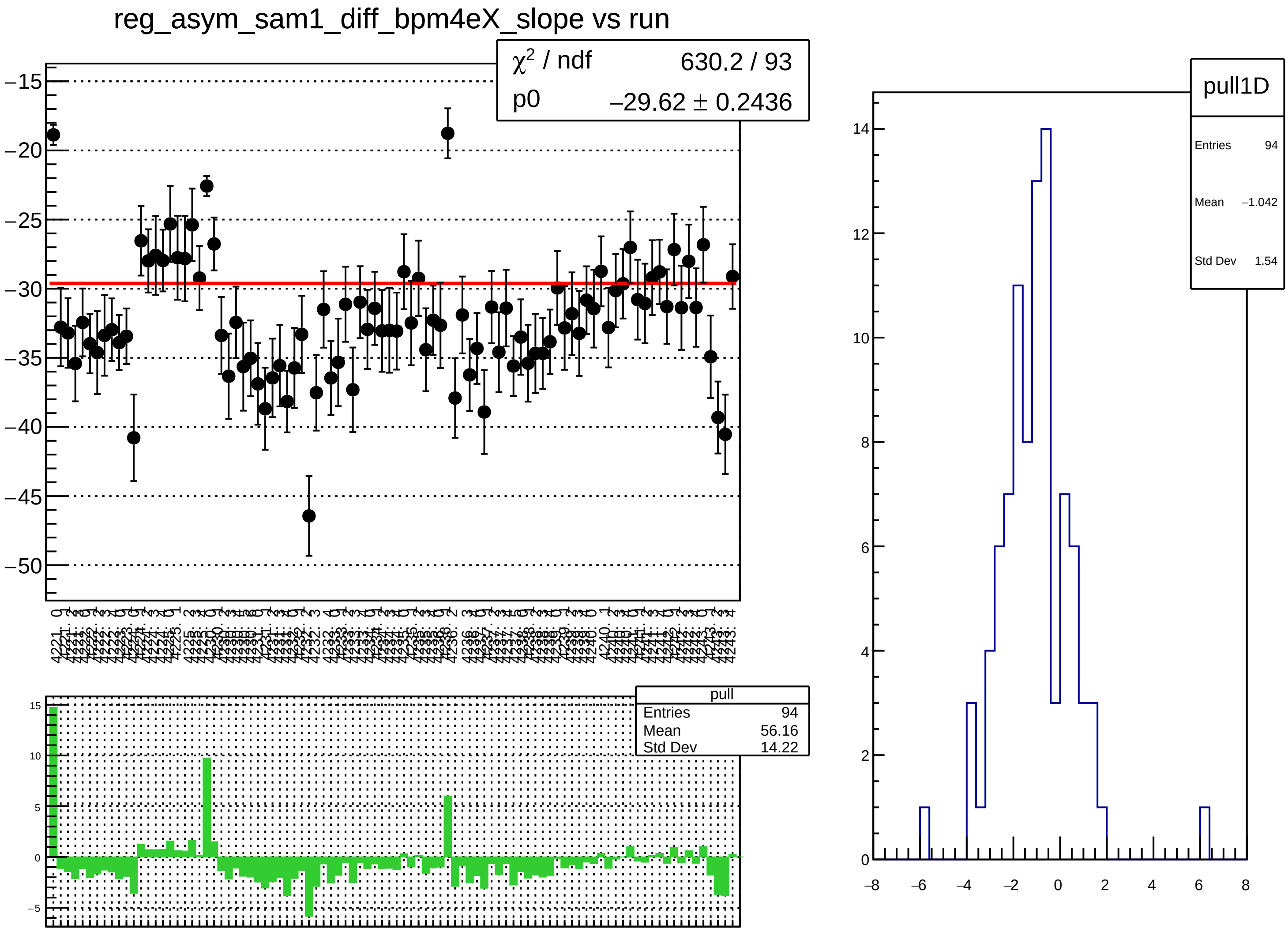
asym_sam_48_dd_correction_rms vs run
χ^2 / ndf 5912 / 93
p0 3056 ± 2.241
3400
3200
3000
2800
2600
2400

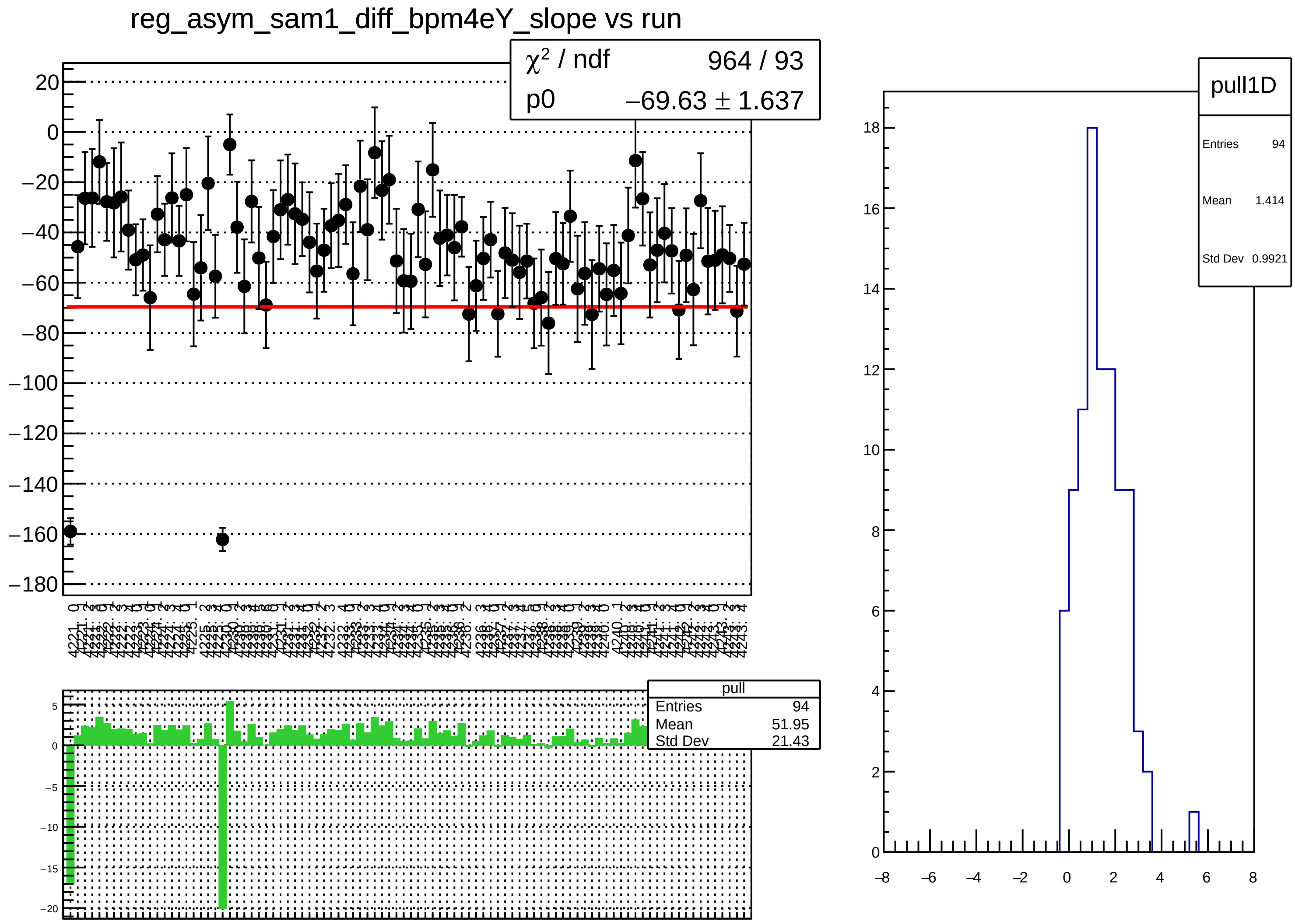


reg_asym_sam1_diff_bpm4aX_slope vs run
χ^2 / ndf 1551 / 93
p0 −3.152 ± 1.21
pull
Entries 94
Mean 68.49
Std Dev 7.438
pull1D
Entries 94
Mean 1.813
Std Dev 0.4946

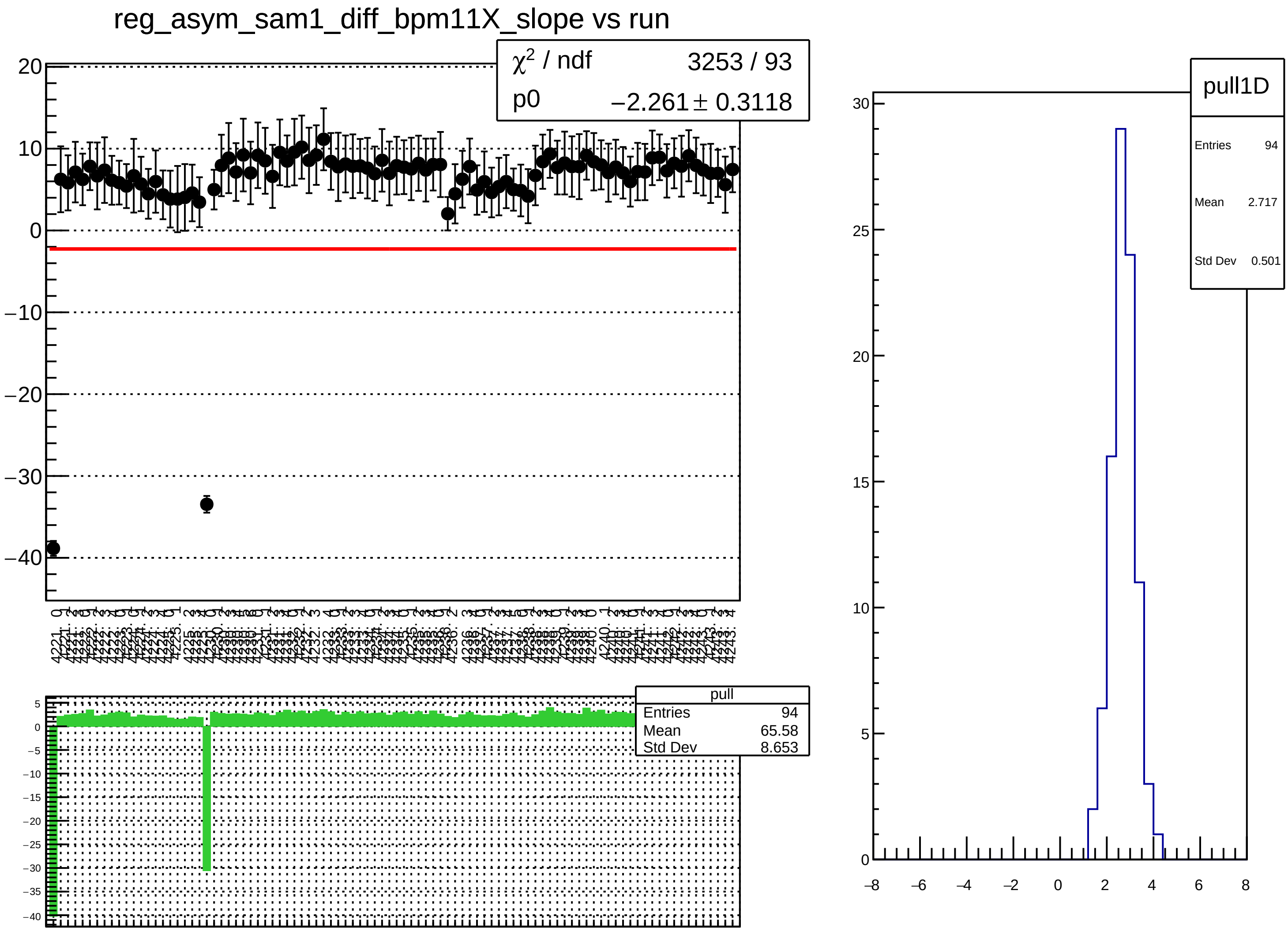


reg_asym_sam1_diff_bpm4aY_slope vs run
χ^2 / ndf 6016 / 93
p0 −124.7 ± 1.062
pull
Entries 94
Mean 66.29
Std Dev 10.15
pull1D
Entries 94
Mean −2.612
Std Dev 0.9336

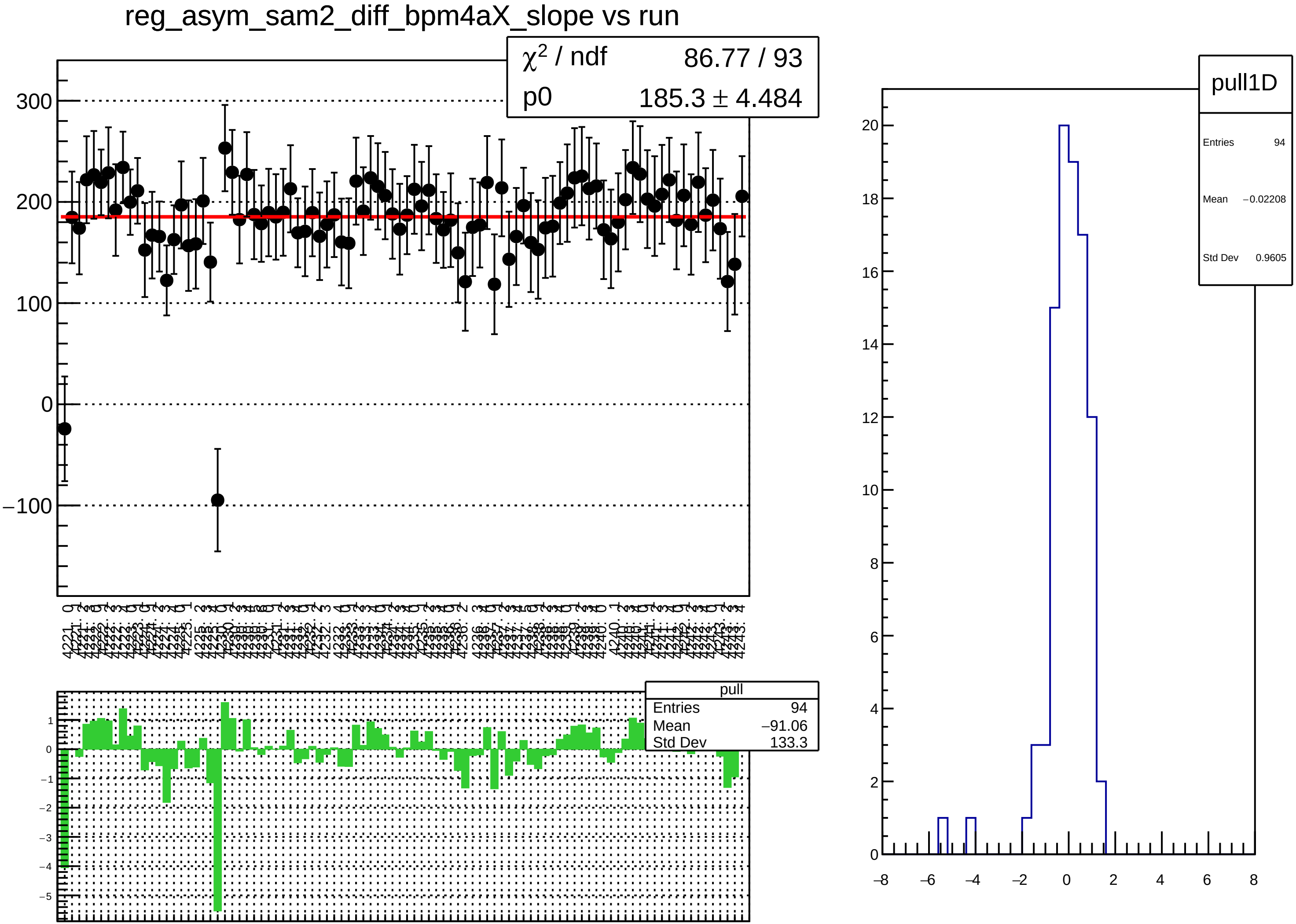

reg_asym_sam1_diff_bpm4eX_slope vs run
χ^2 / ndf 630.2 / 93
p0 −29.62 ± 0.2436
−15
−20
−25
−30
−35
−40
−45
−50
pull
Entries 94
Mean 56.16
Std Dev 14.22
15
10
5
0
−5
pull1D
Entries 94
Mean −1.042
Std Dev 1.54
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



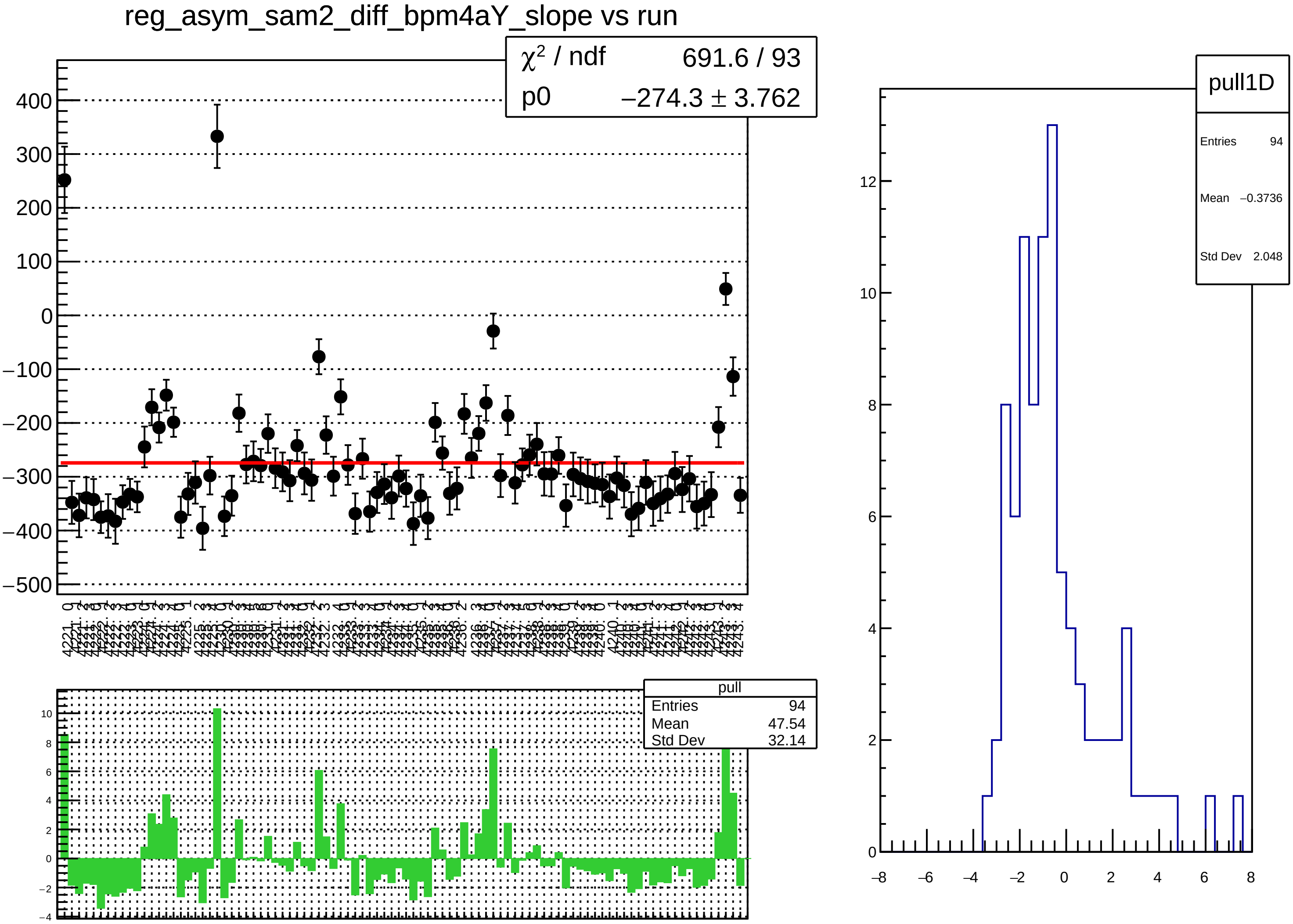
reg_asym_sam1_diff_bpm4eY_slope vs run
χ^2 / ndf 964 / 93
p0 −69.63 ± 1.637
pull
Entries 94
Mean 51.95
Std Dev 21.43
pull1D
Entries 94
Mean 1.414
Std Dev 0.9921



reg_asym_sam1_diff_bpm11X_slope vs run
χ^2 / ndf 3253 / 93
p0 −2.261 ± 0.3118
pull
Entries 94
Mean 65.58
Std Dev 8.653
pull1D
Entries 94
Mean 2.717
Std Dev 0.501

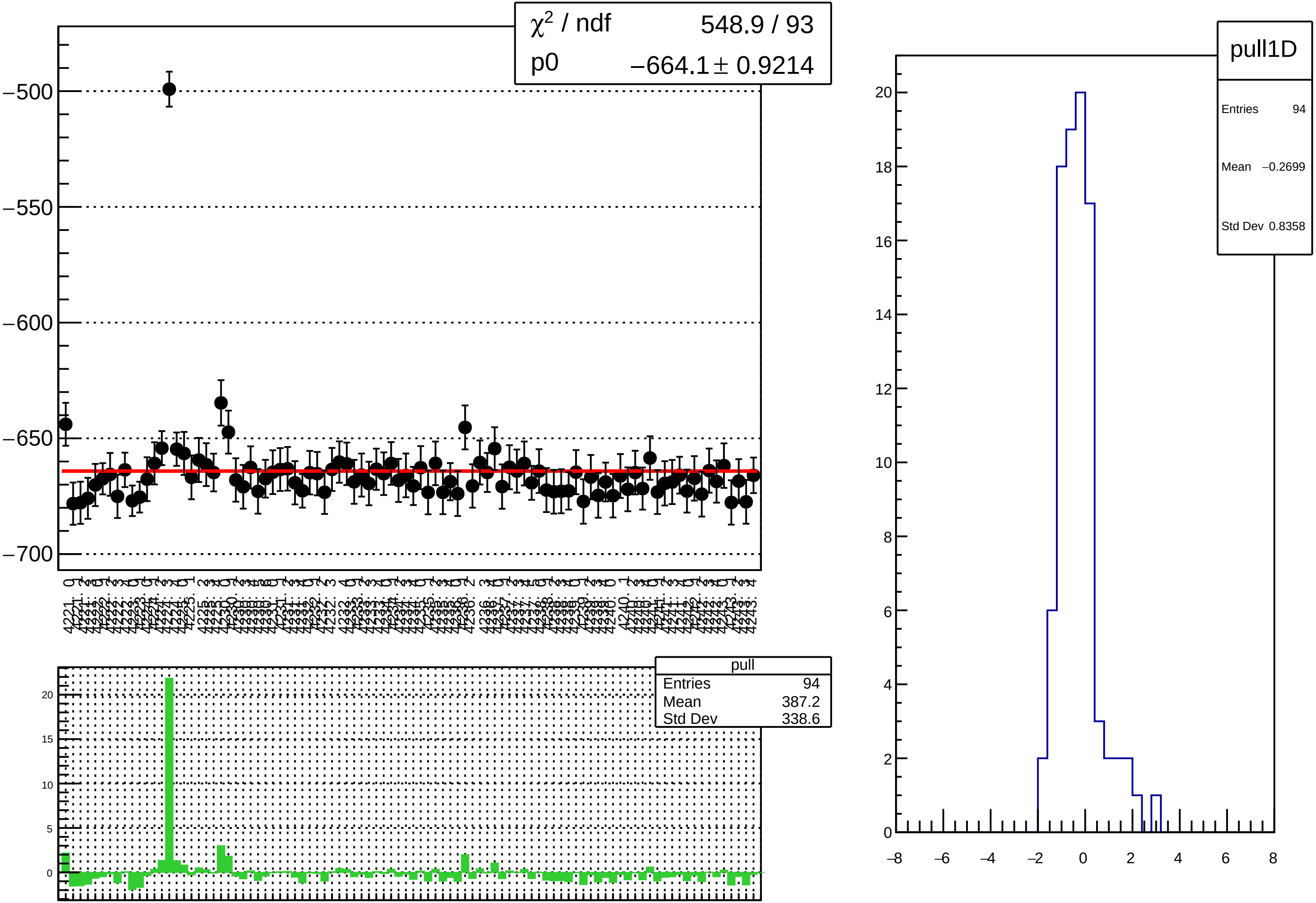


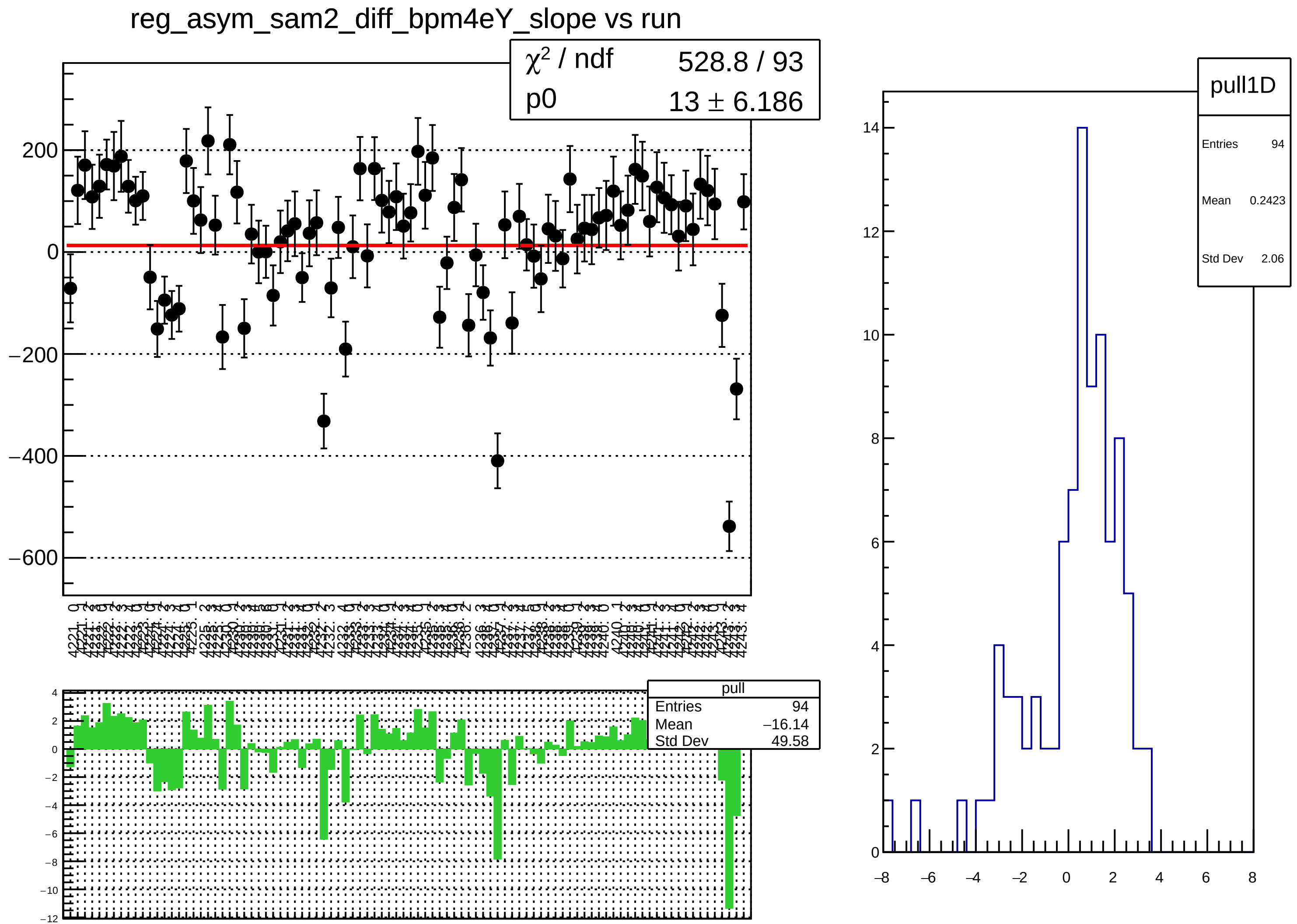
reg_asym_sam2_diff_bpm4aX_slope vs run
χ^2 / ndf 86.77 / 93
p0 185.3 ± 4.484
pull
Entries 94
Mean −91.06
Std Dev 133.3
pull1D
Entries 94
Mean −0.02208
Std Dev 0.9605



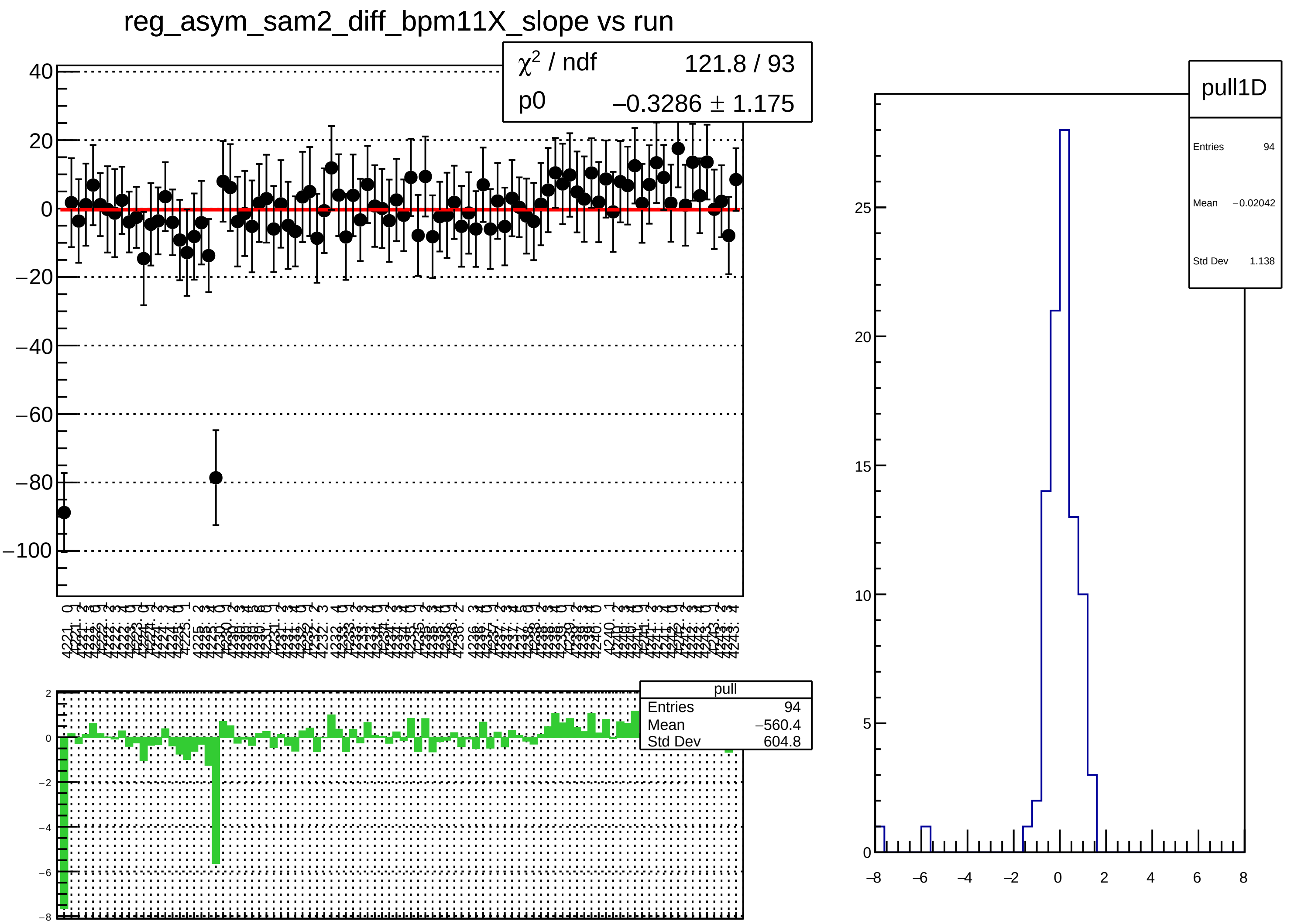
reg_asym_sam2_diff_bpm4aY_slope vs run
χ^2 / ndf 691.6 / 93
p0 −274.3 ± 3.762
pull
Entries 94
Mean 47.54
Std Dev 32.14
pull1D
Entries 94
Mean −0.3736
Std Dev 2.048

reg_asym_sam2_diff_bpm4eX_slope vs run

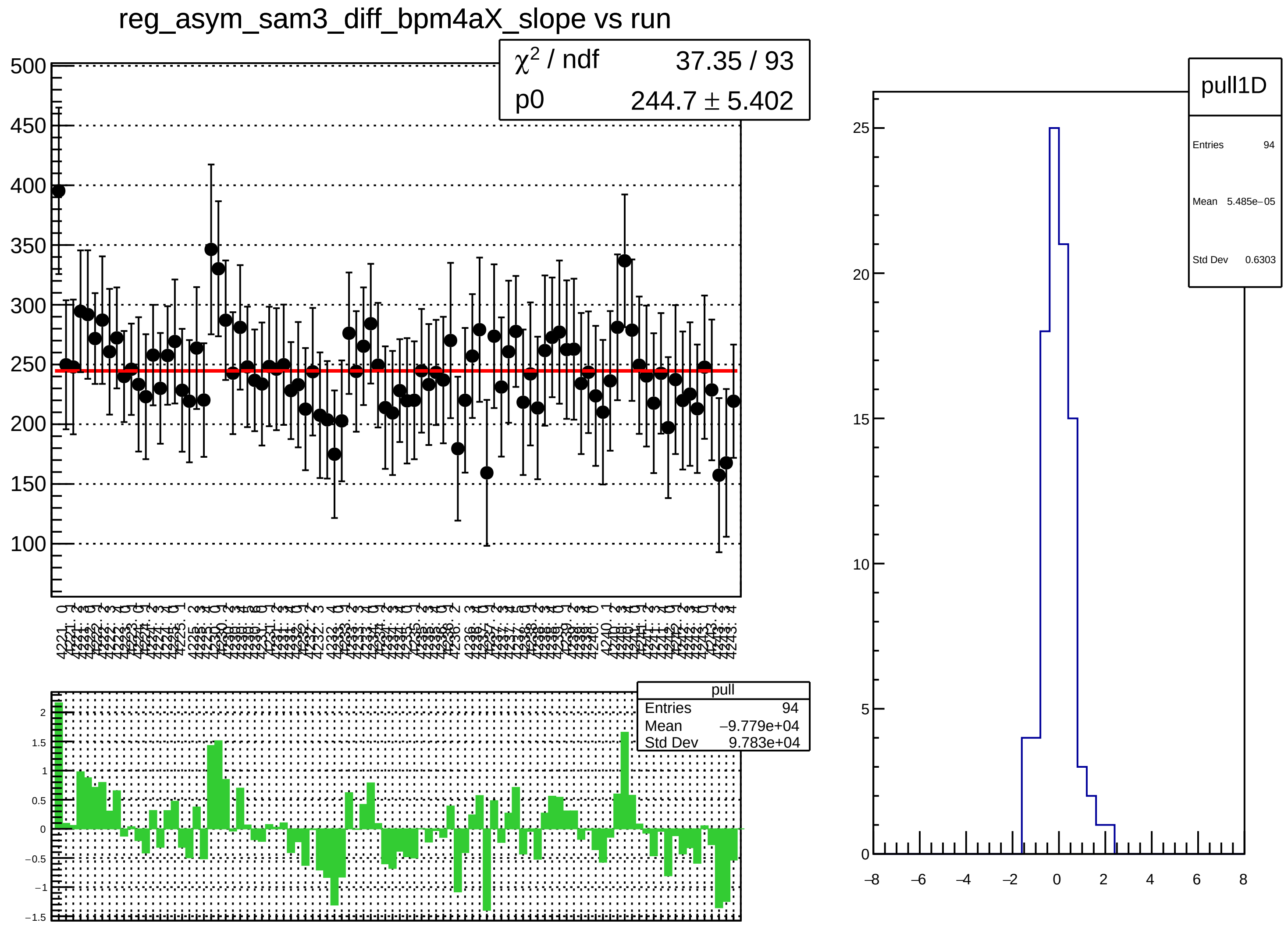




reg_asym_sam2_diff_bpm4eY_slope vs run
χ2 / ndf 528.8 / 93
p0 13 ± 6.186
200
0
−200
−400
−600
pull
Entries 94
Mean −16.14
Std Dev 49.58
pull1D
Entries 94
Mean 0.2423
Std Dev 2.06

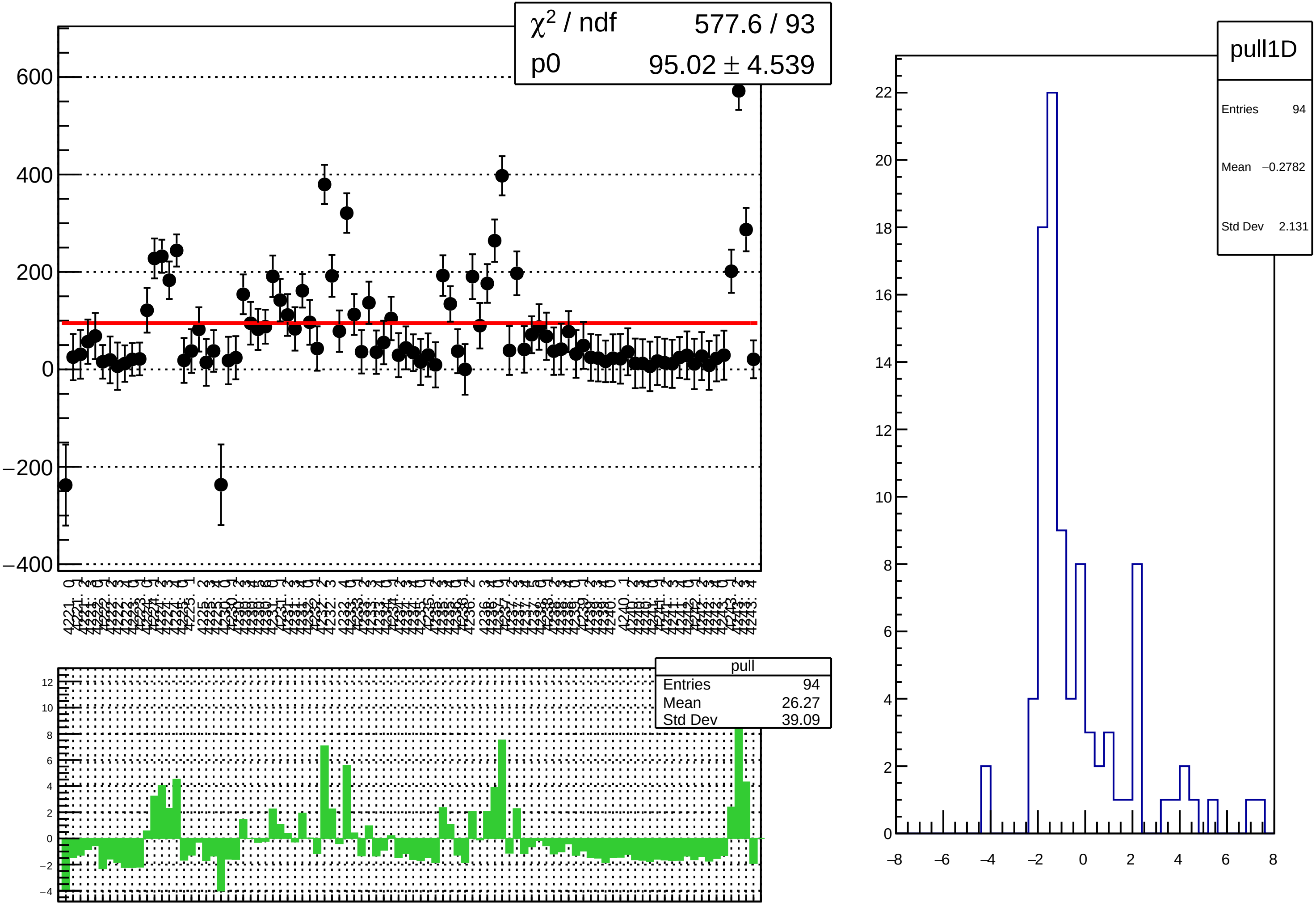


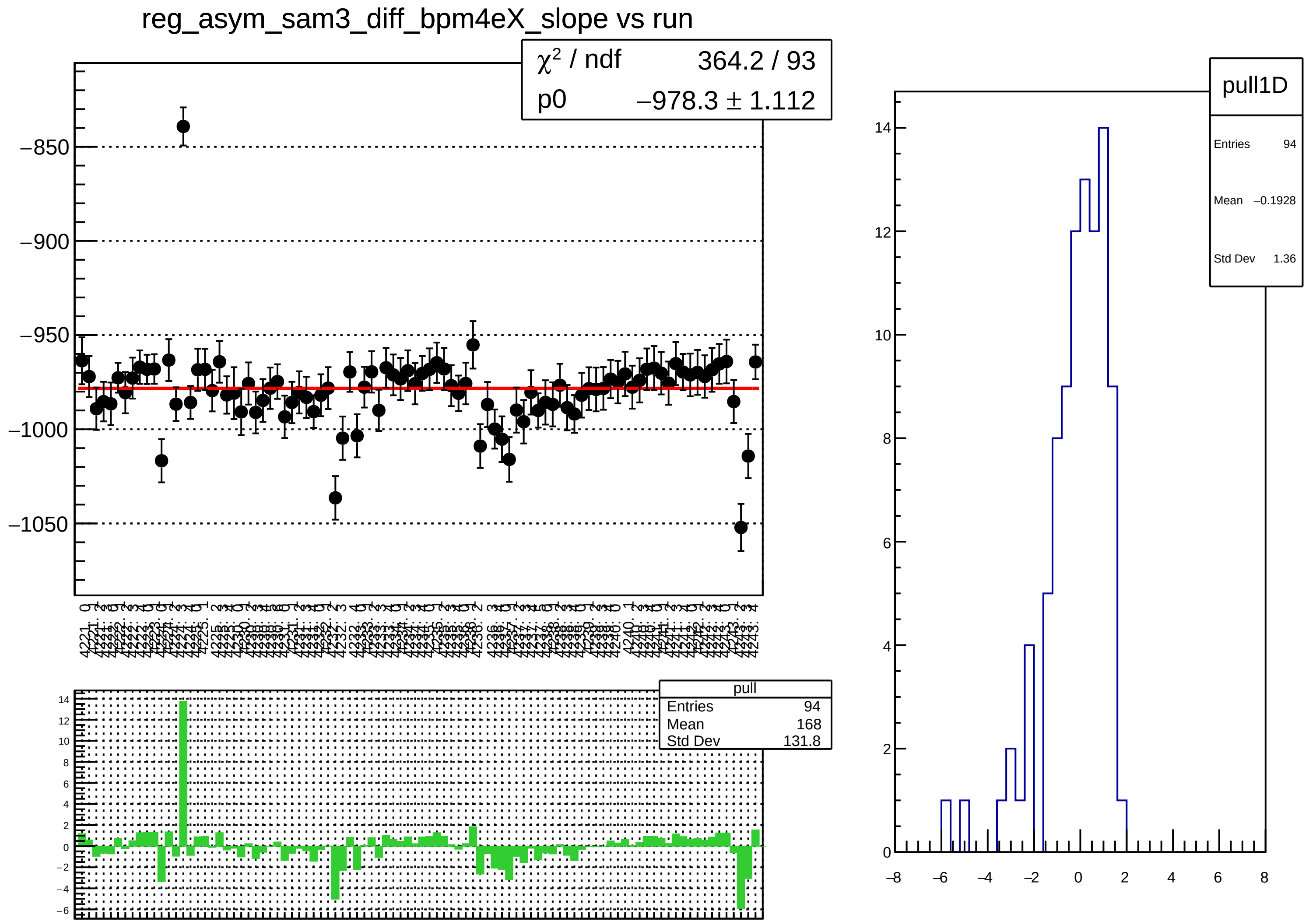
reg_asym_sam2_diff_bpm11X_slope vs run
χ^2 / ndf 121.8 / 93
p0 −0.3286 ± 1.175
pull
Entries 94
Mean −560.4
Std Dev 604.8
pull1D
Entries 94
Mean −0.02042
Std Dev 1.138



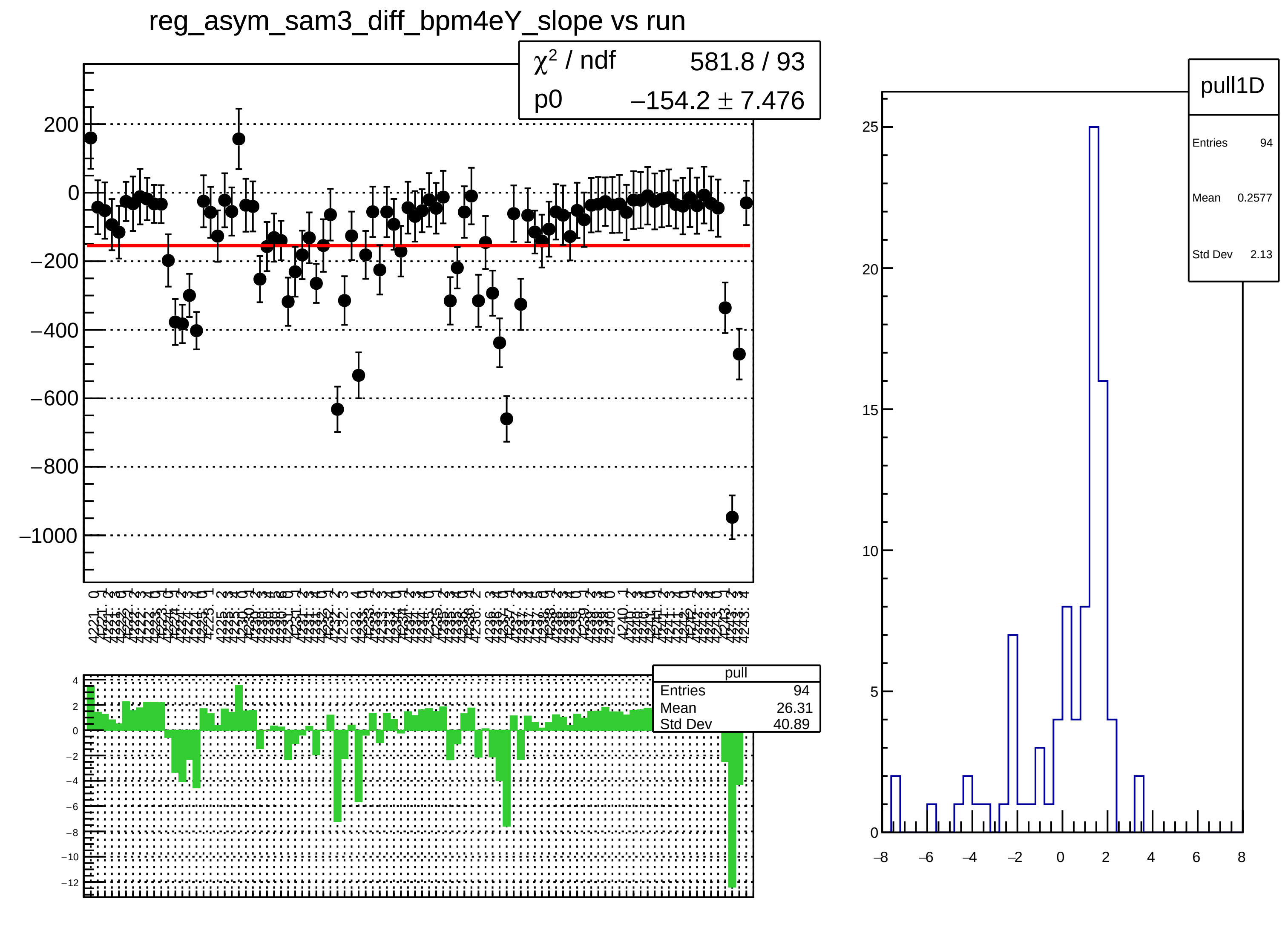
reg_asym_sam3_diff_bpm4aX_slope vs run
χ^2 / ndf 37.35 / 93
p0 244.7 ± 5.402
pull
Entries 94
Mean −9.779e+04
Std Dev 9.783e+04
pull1D
Entries 94
Mean 5.485e−05
Std Dev 0.6303

reg_asym_sam3_diff_bpm4aY_slope vs run

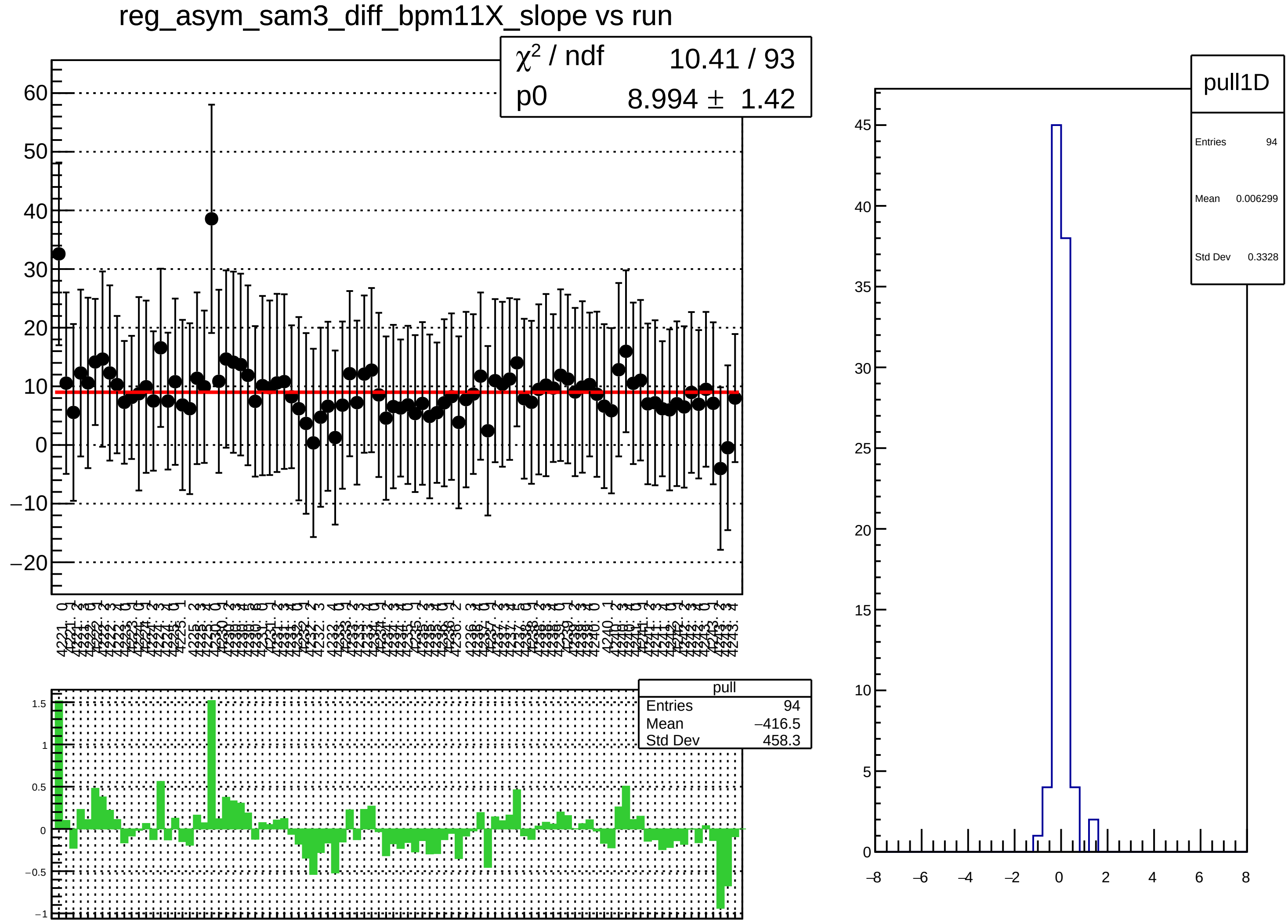




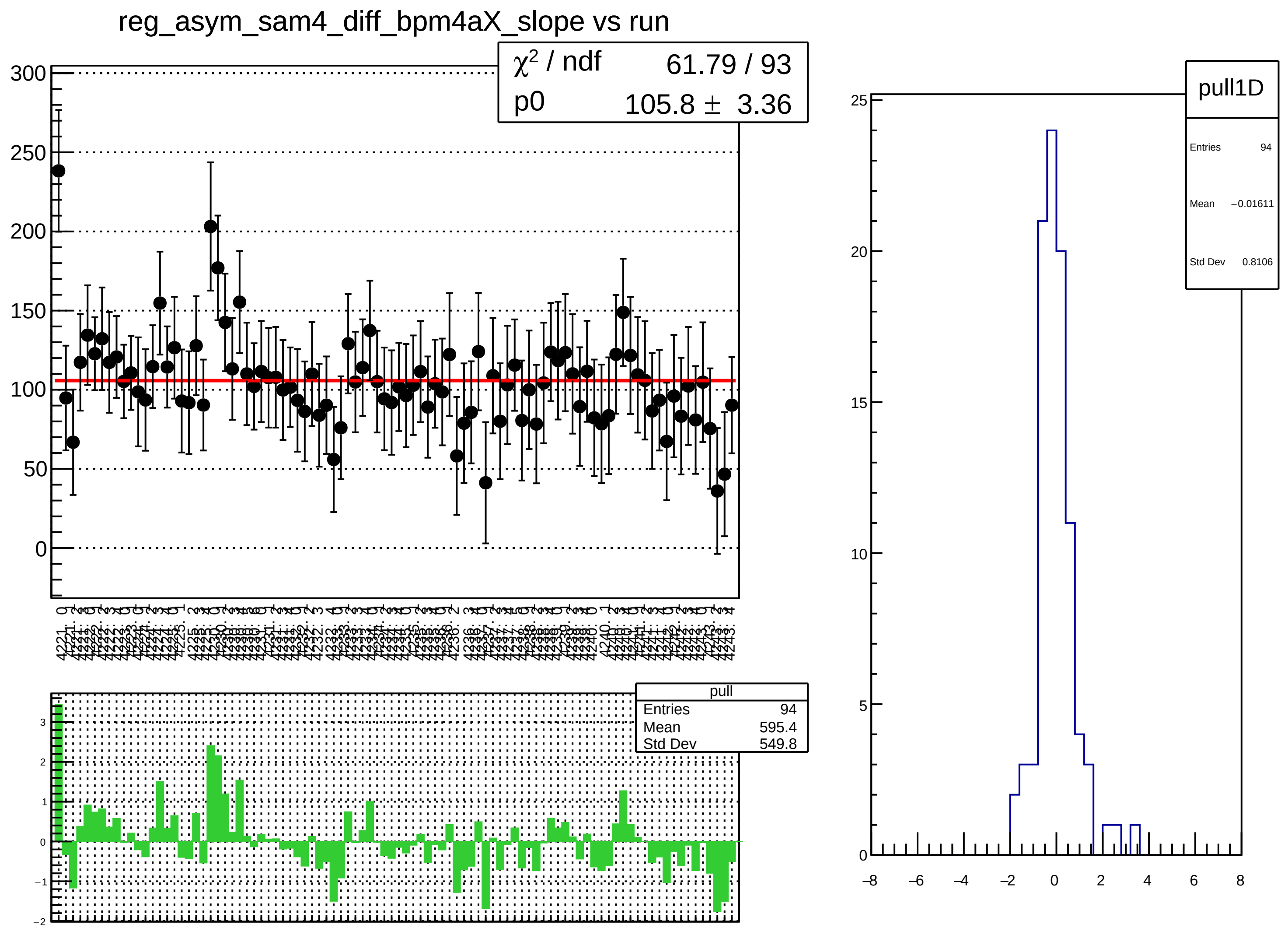
reg_asym_sam3_diff_bpm4eX_slope vs run
χ2 / ndf 364.2 / 93
p0 −978.3 ± 1.112
−850
−900
−950
−1000
−1050
pull
Entries 94
Mean 168
Std Dev 131.8
pull1D
Entries 94
Mean −0.1928
Std Dev 1.36



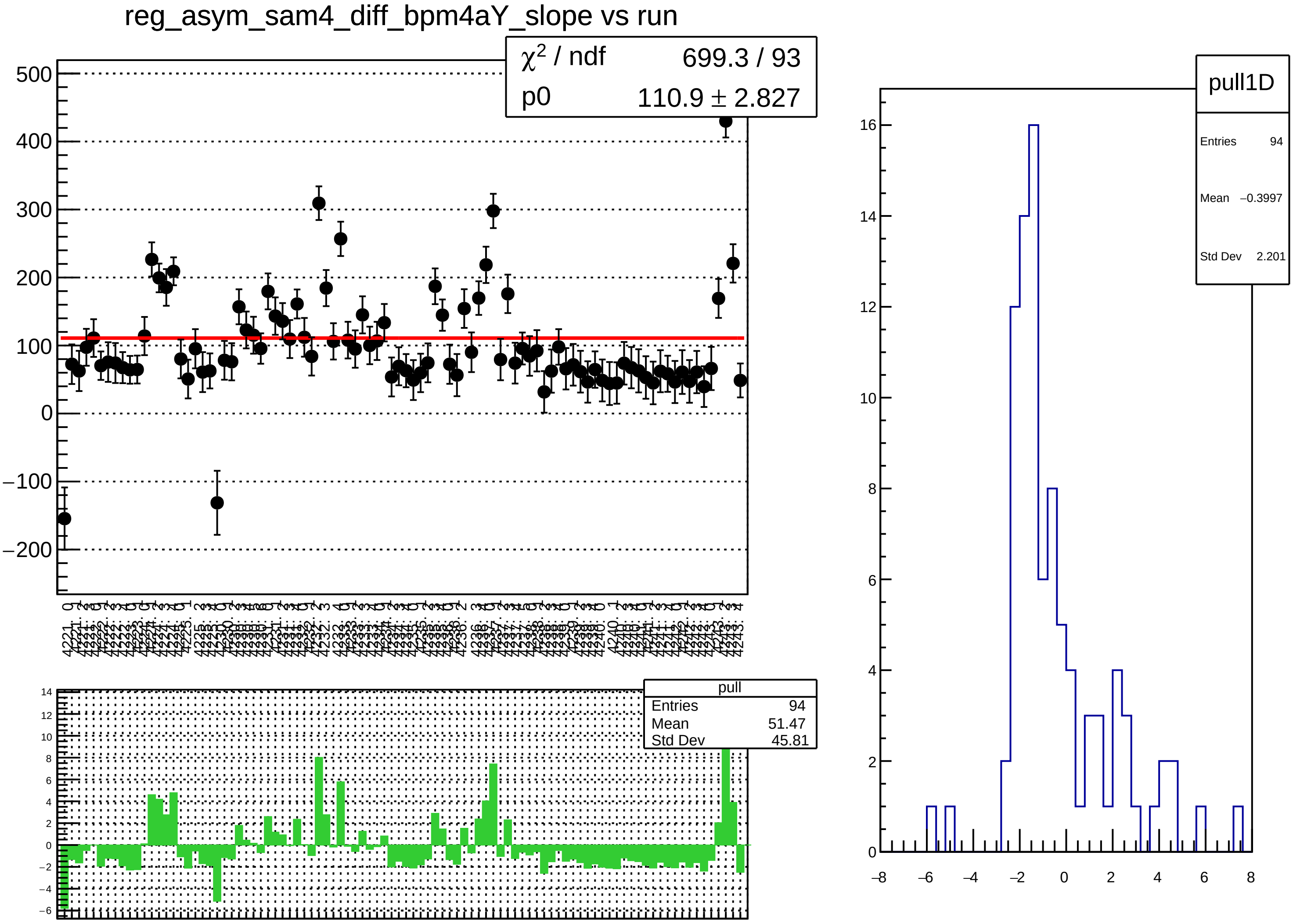
reg_asym_sam3_diff_bpm4eY_slope vs run
χ2 / ndf 581.8 / 93
p0 −154.2 ± 7.476
pull
Entries 94
Mean 26.31
Std Dev 40.89
pull1D
Entries 94
Mean 0.2577
Std Dev 2.13



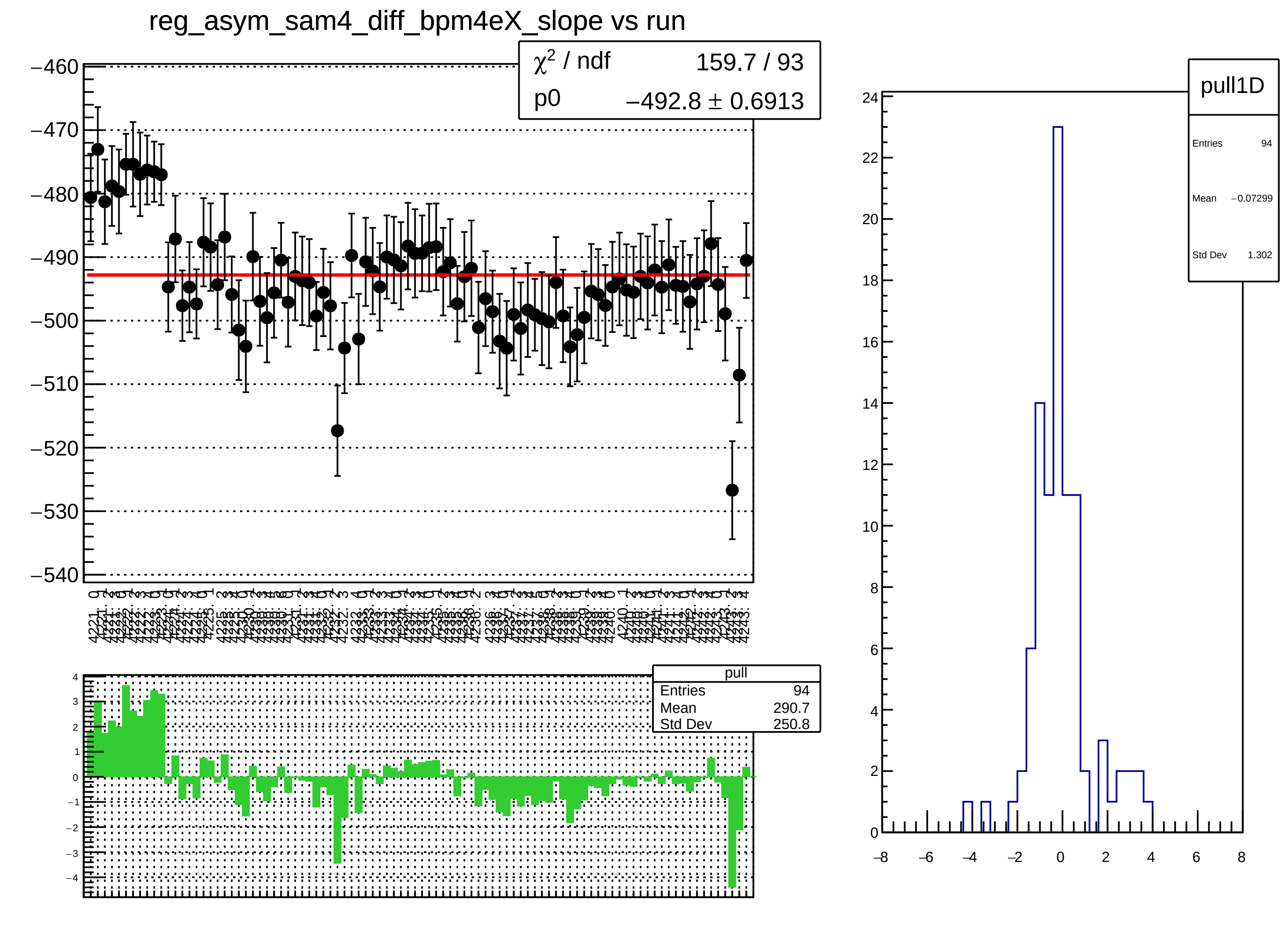
reg_asym_sam3_diff_bpm11X_slope vs run
χ2 / ndf 10.41 / 93
p0 8.994 ± 1.42
60
50
40
30
20
10
0
−10
−20
pull
Entries 94
Mean −416.5
Std Dev 458.3
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.006299
Std Dev 0.3328
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



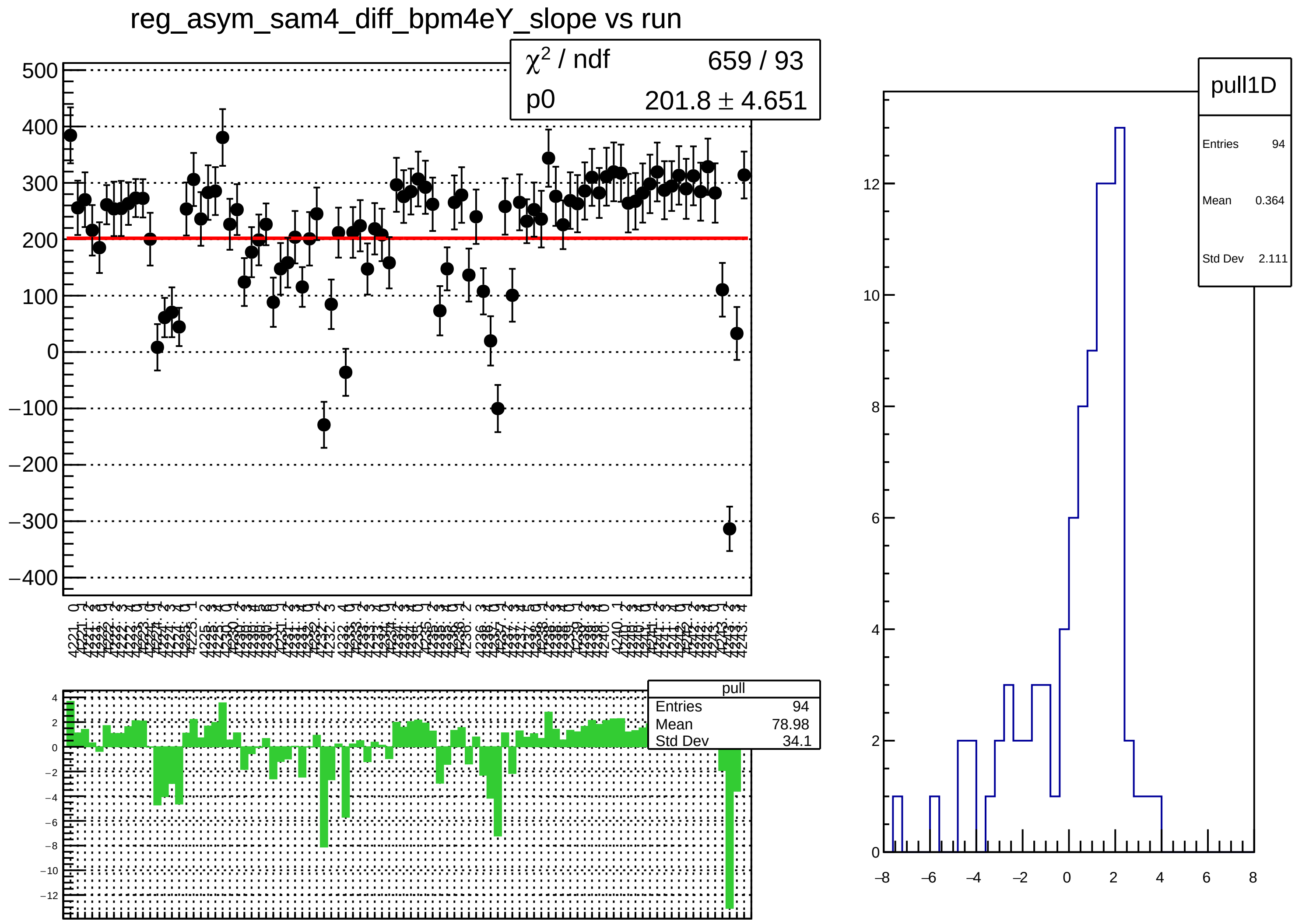
reg_asym_sam4_diff_bpm4aX_slope vs run
χ2 / ndf 61.79 / 93
p0 105.8 ± 3.36
pull
Entries 94
Mean 595.4
Std Dev 549.8
pull1D
Entries 94
Mean −0.01611
Std Dev 0.8106



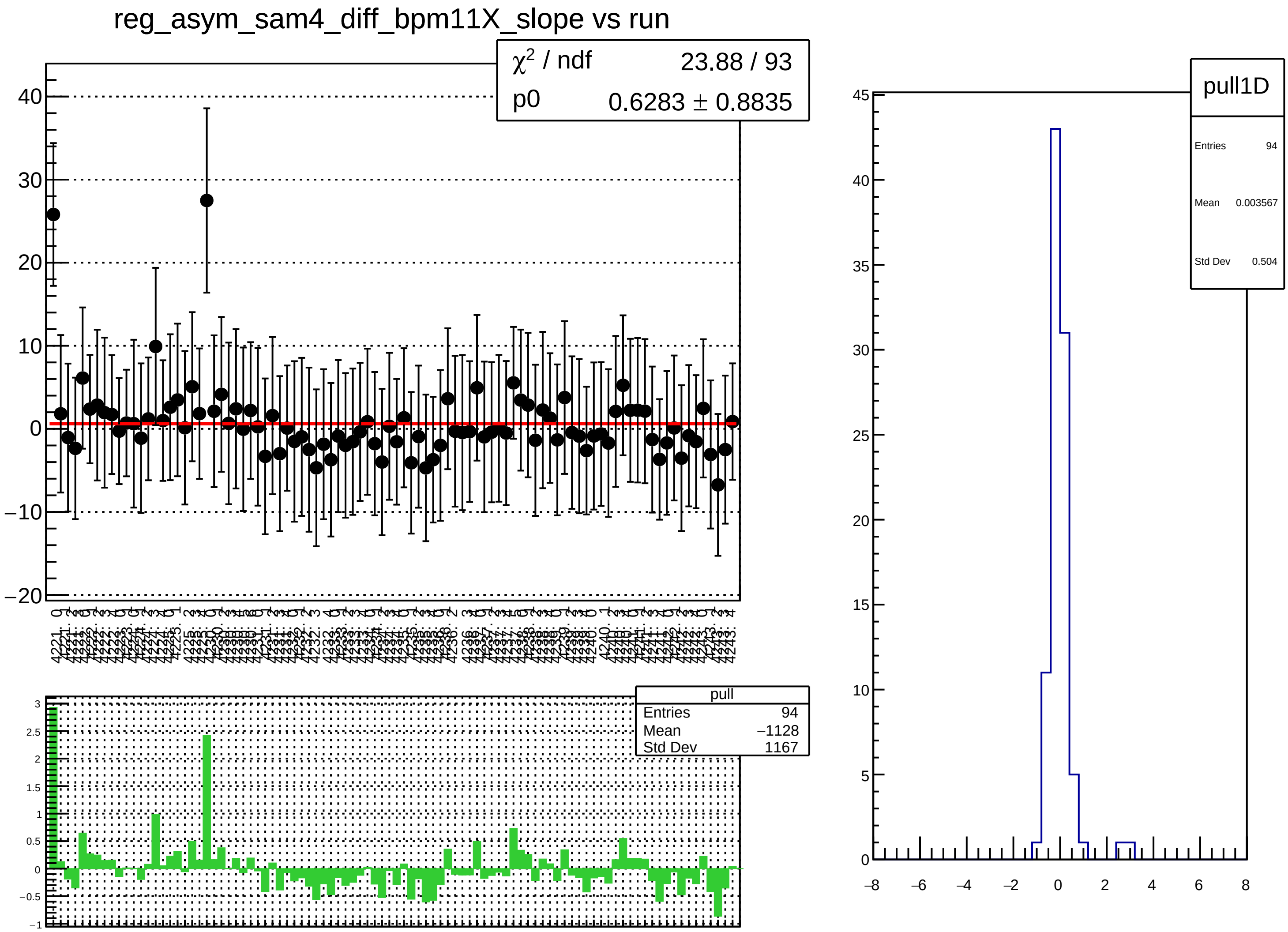
reg_asym_sam4_diff_bpm4aY_slope vs run
χ^2 / ndf 699.3 / 93
p0 110.9 ± 2.827
pull
Entries 94
Mean 51.47
Std Dev 45.81
pull1D
Entries 94
Mean −0.3997
Std Dev 2.201

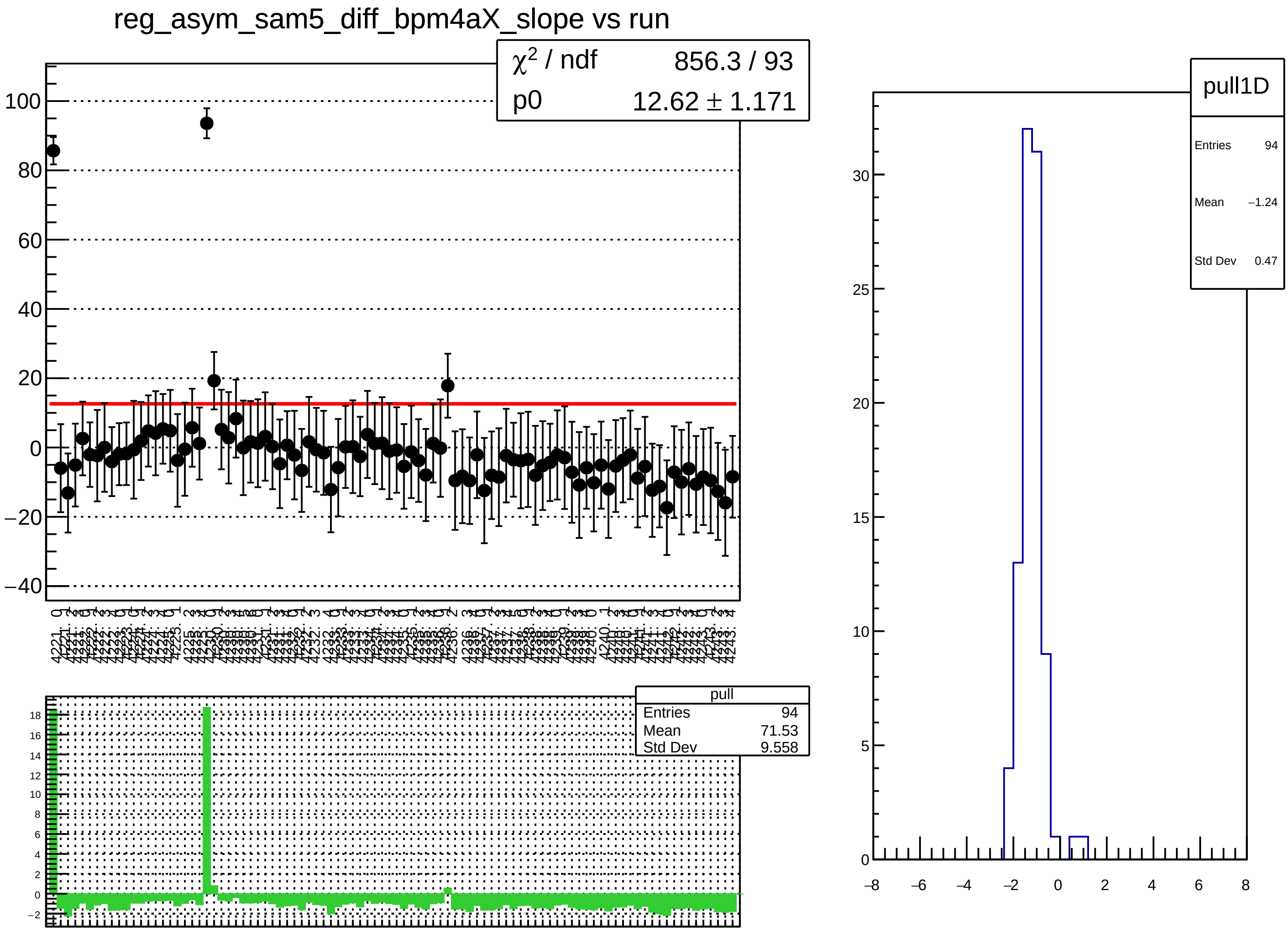


reg_asym_sam4_diff_bpm4eX_slope vs run
χ2 / ndf 159.7 / 93
p0 −492.8 ± 0.6913
pull
Entries 94
Mean 290.7
Std Dev 250.8
pull1D
Entries 94
Mean −0.07299
Std Dev 1.302

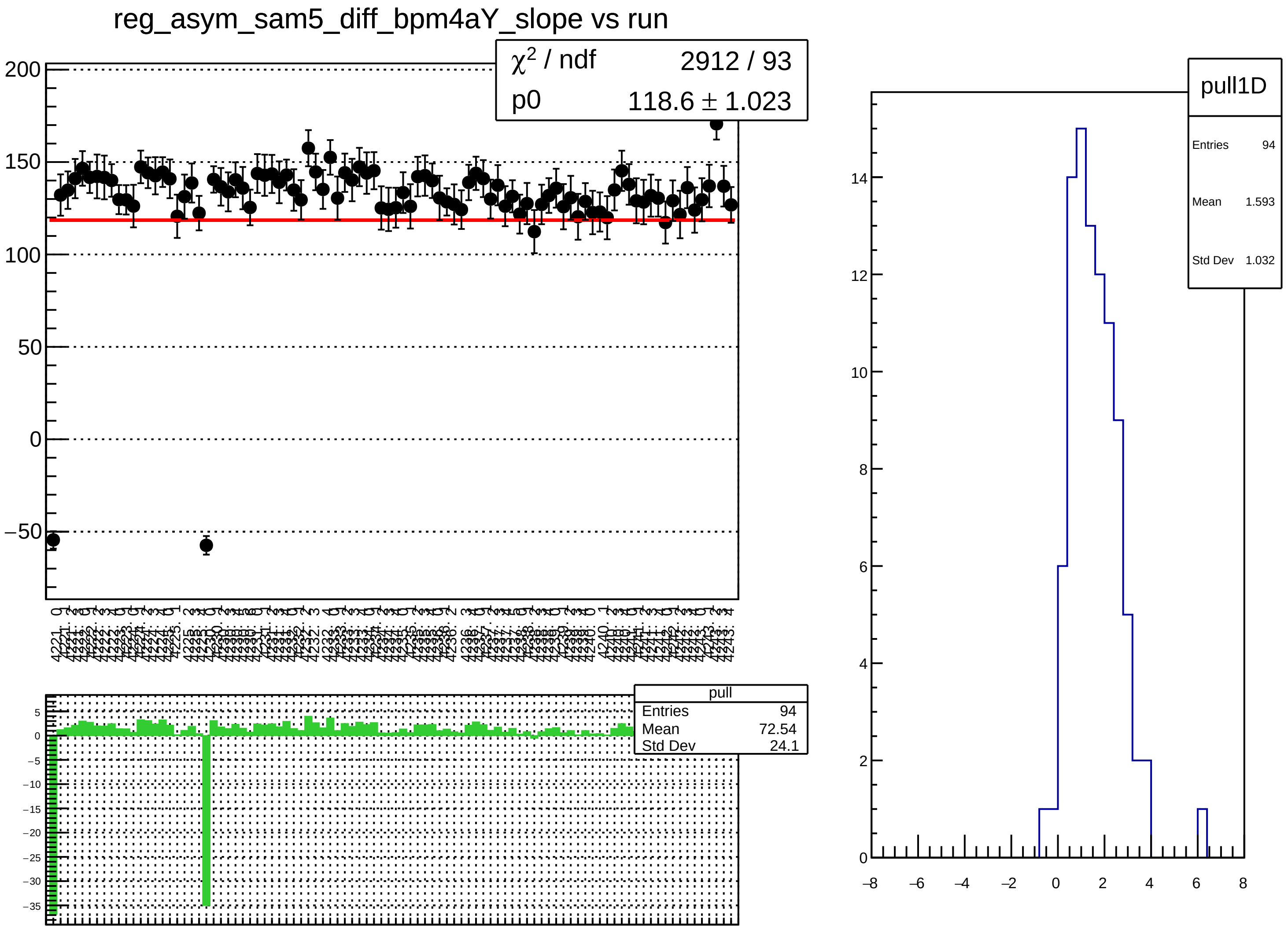


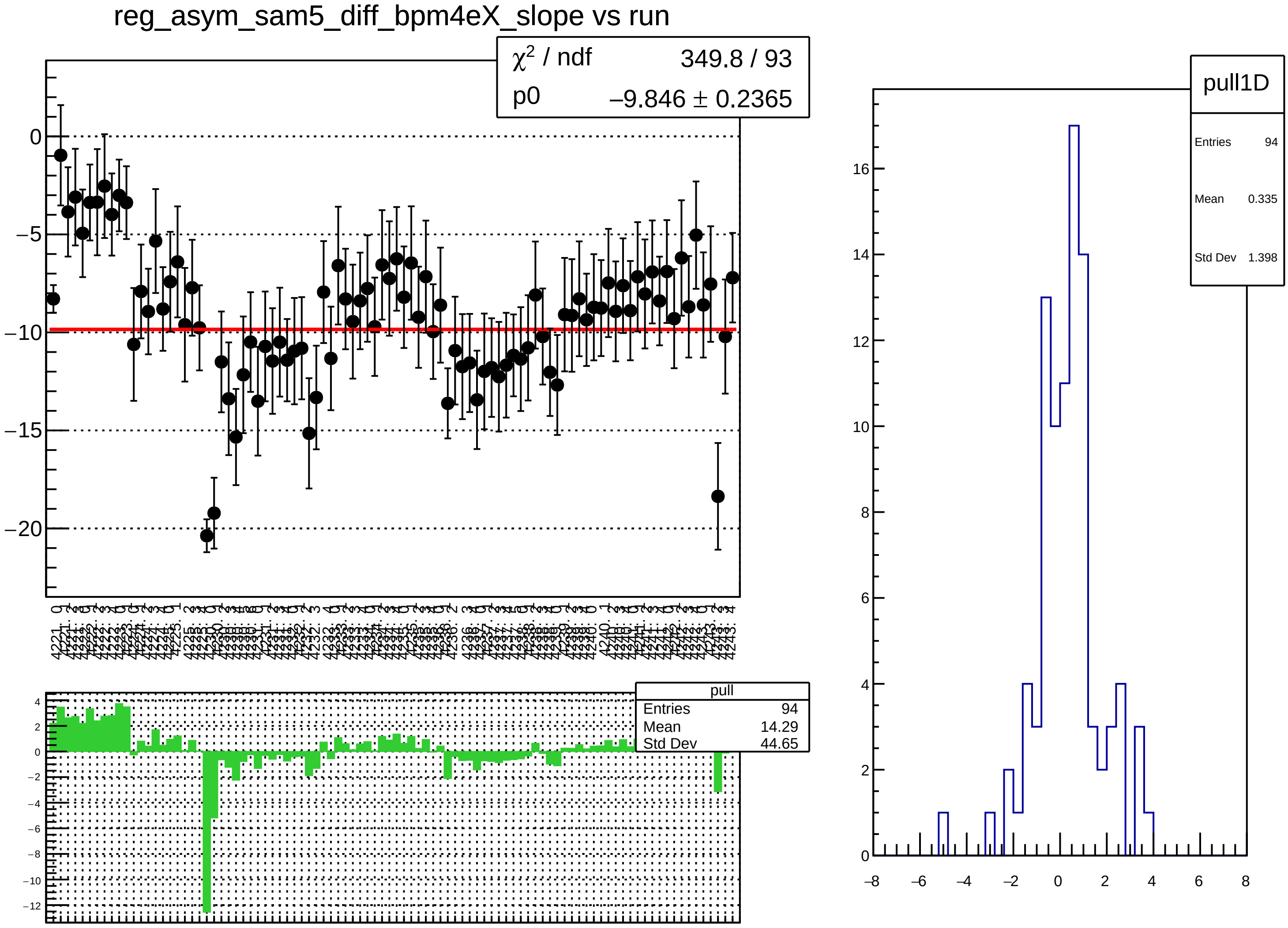
reg_asym_sam4_diff_bpm4eY_slope vs run
χ^2 / ndf 659 / 93
p0 201.8 ± 4.651
pull
Entries 94
Mean 78.98
Std Dev 34.1
pull1D
Entries 94
Mean 0.364
Std Dev 2.111

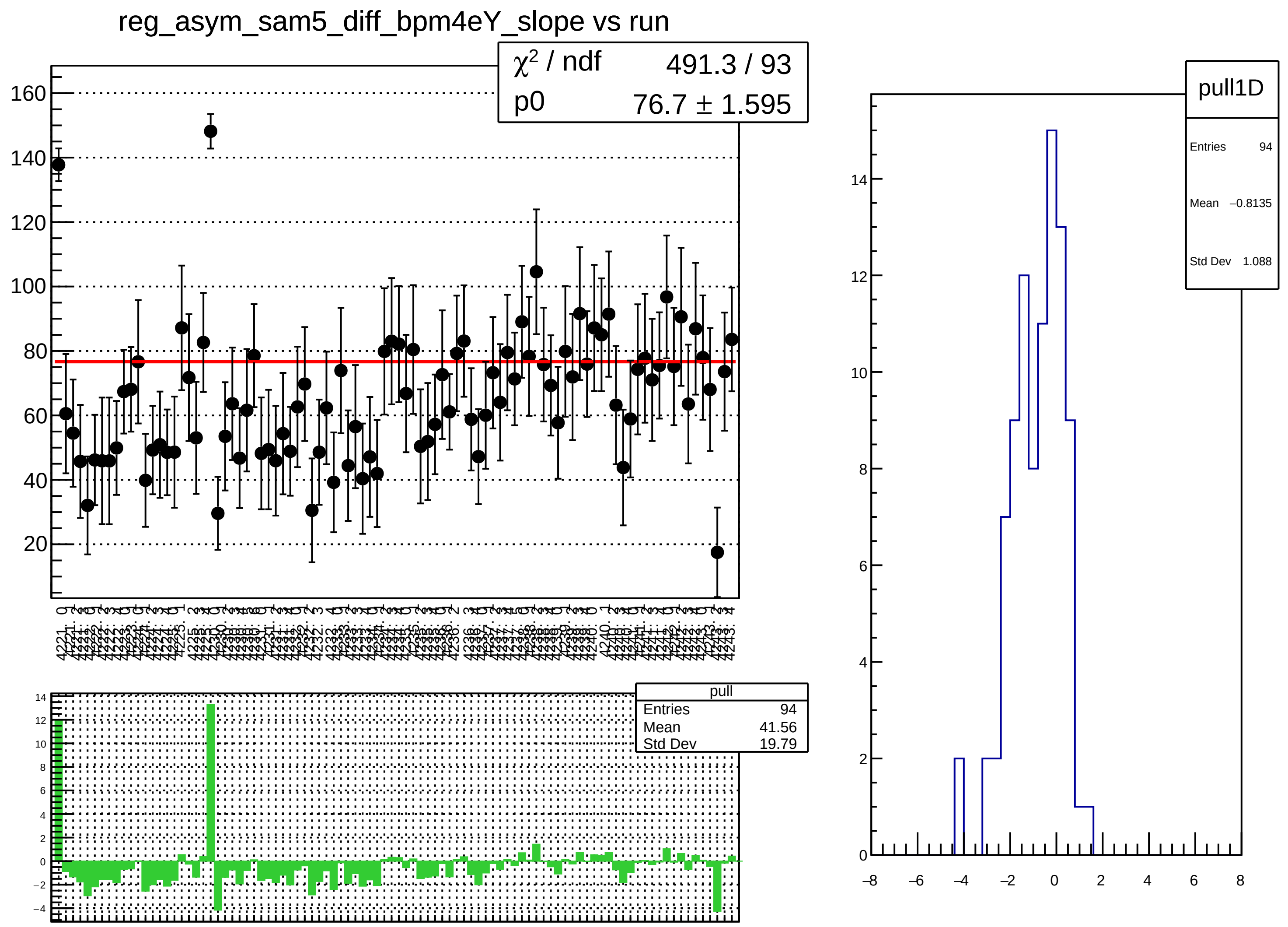

reg_asym_sam4_diff_bpm11X_slope vs run
χ^2 / ndf 23.88 / 93
p0 0.6283 ± 0.8835
pull
Entries 94
Mean −1128
Std Dev 1167
pull1D
Entries 94
Mean 0.003567
Std Dev 0.504



reg_asym_sam5_diff_bpm4aX_slope vs run
χ^2 / ndf 856.3 / 93
p0 12.62 ± 1.171
pull
Entries 94
Mean 71.53
Std Dev 9.558
pull1D
Entries 94
Mean −1.24
Std Dev 0.47

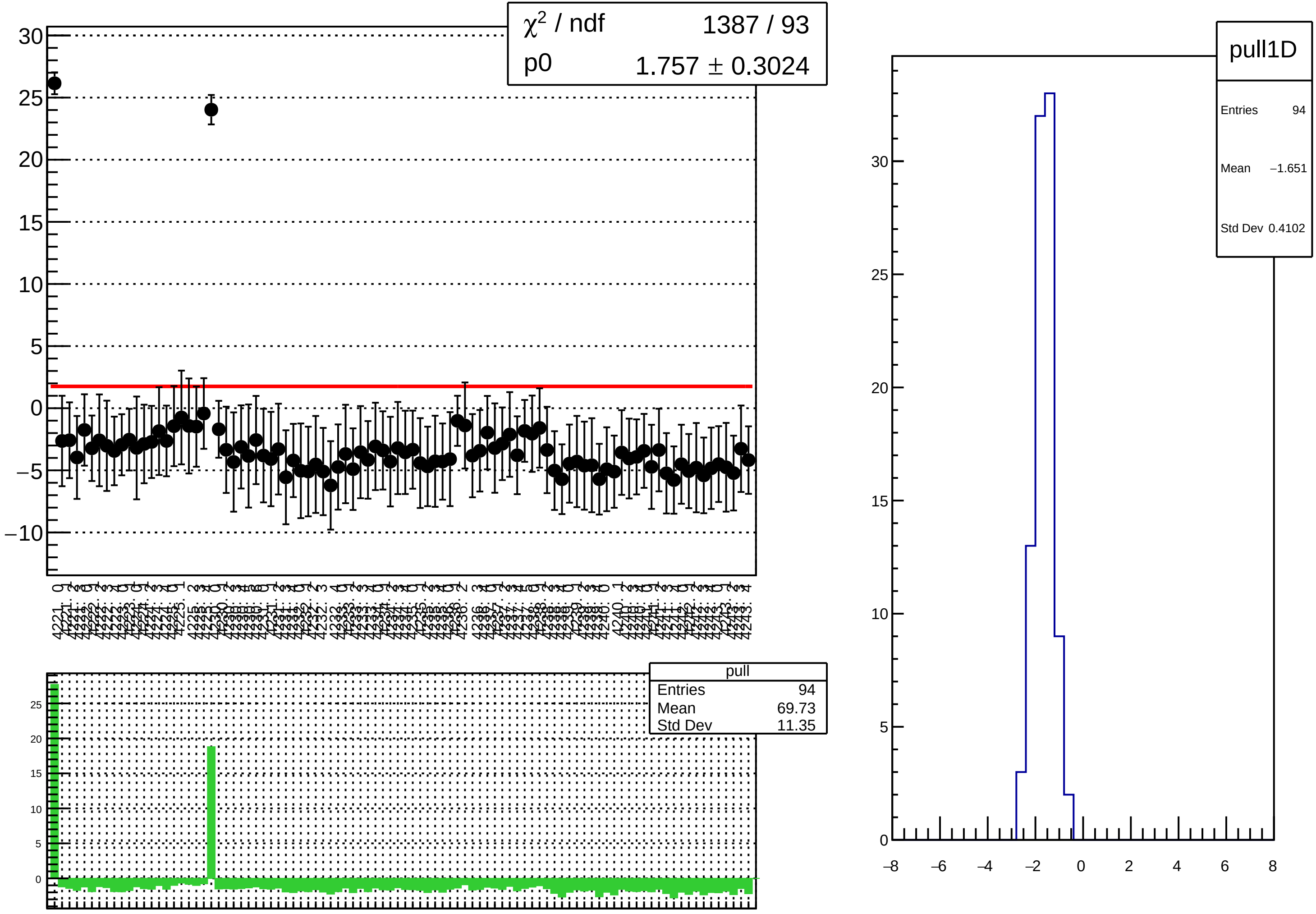

reg_asym_sam5_diff_bpm4aY_slope vs run
χ2 / ndf 2912 / 93
p0 118.6 ± 1.023
pull
Entries 94
Mean 72.54
Std Dev 24.1
pull1D
Entries 94
Mean 1.593
Std Dev 1.032

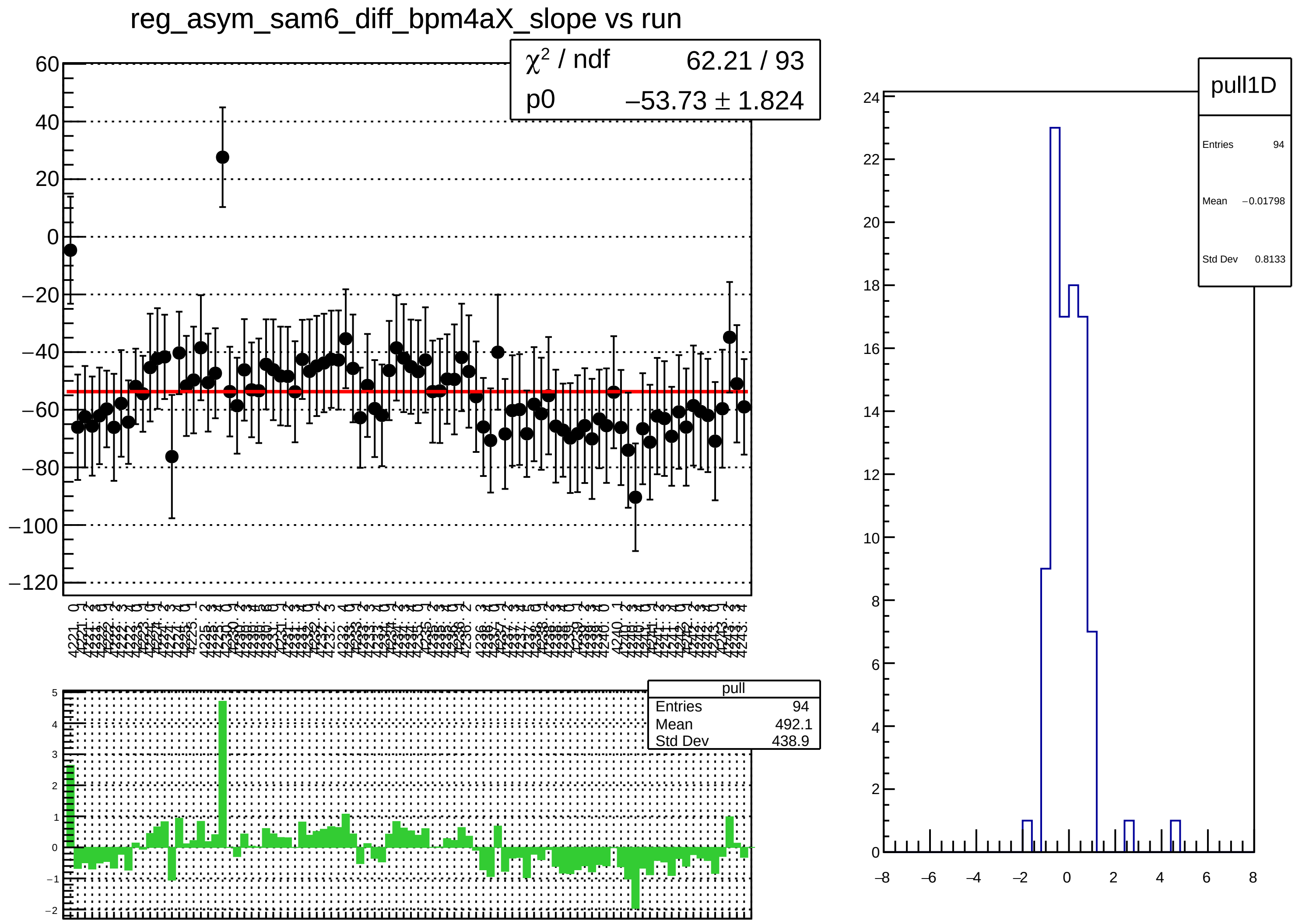

reg_asym_sam5_diff_bpm4eX_slope vs run
χ^2 / ndf 349.8 / 93
p0 −9.846 ± 0.2365
pull
Entries 94
Mean 14.29
Std Dev 44.65
pull1D
Entries 94
Mean 0.335
Std Dev 1.398

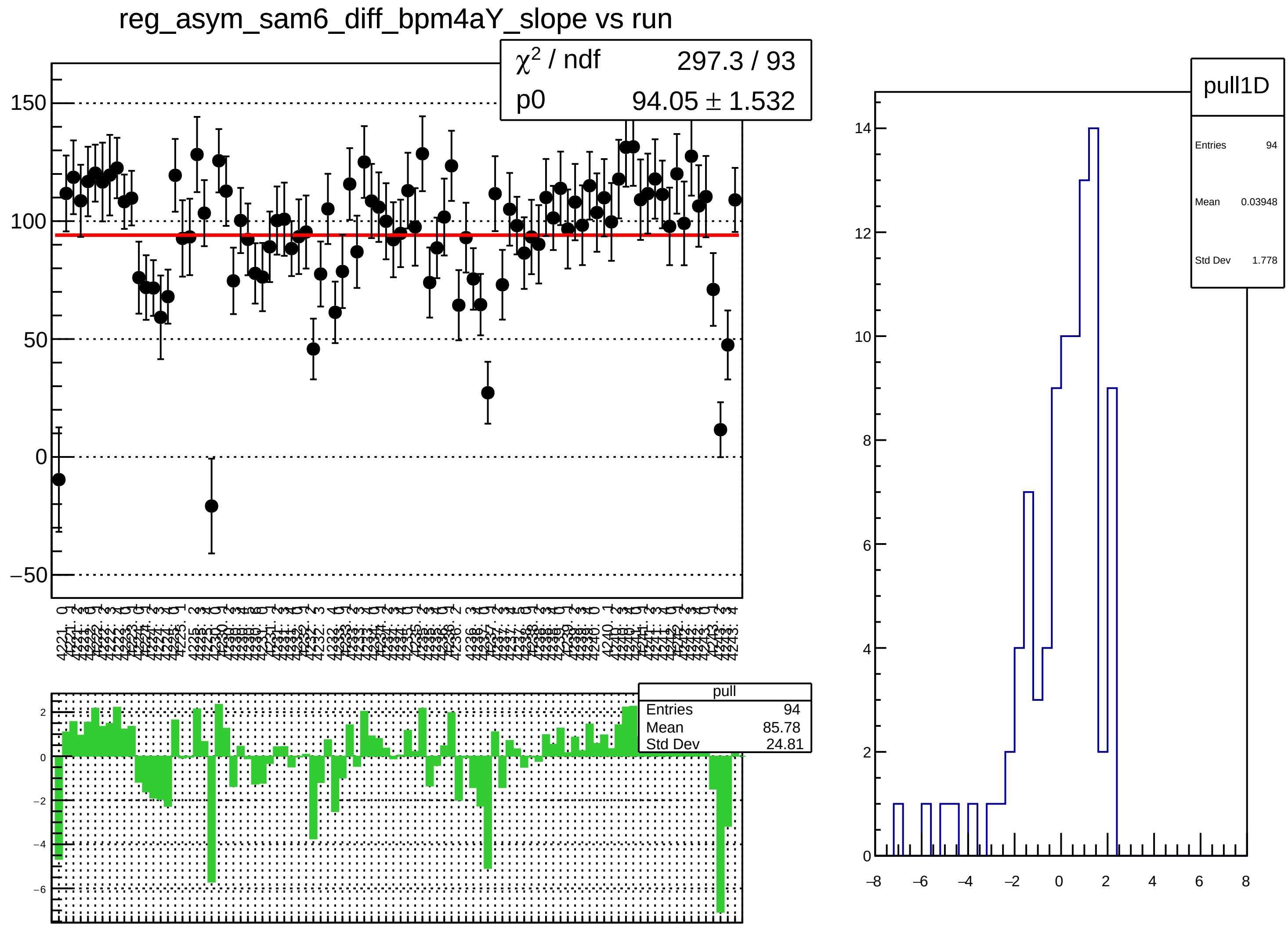


reg_asym_sam5_diff_bpm4eY_slope vs run
χ^2 / ndf 491.3 / 93
p0 76.7 ± 1.595
pull
Entries 94
Mean 41.56
Std Dev 19.79
pull1D
Entries 94
Mean −0.8135
Std Dev 1.088

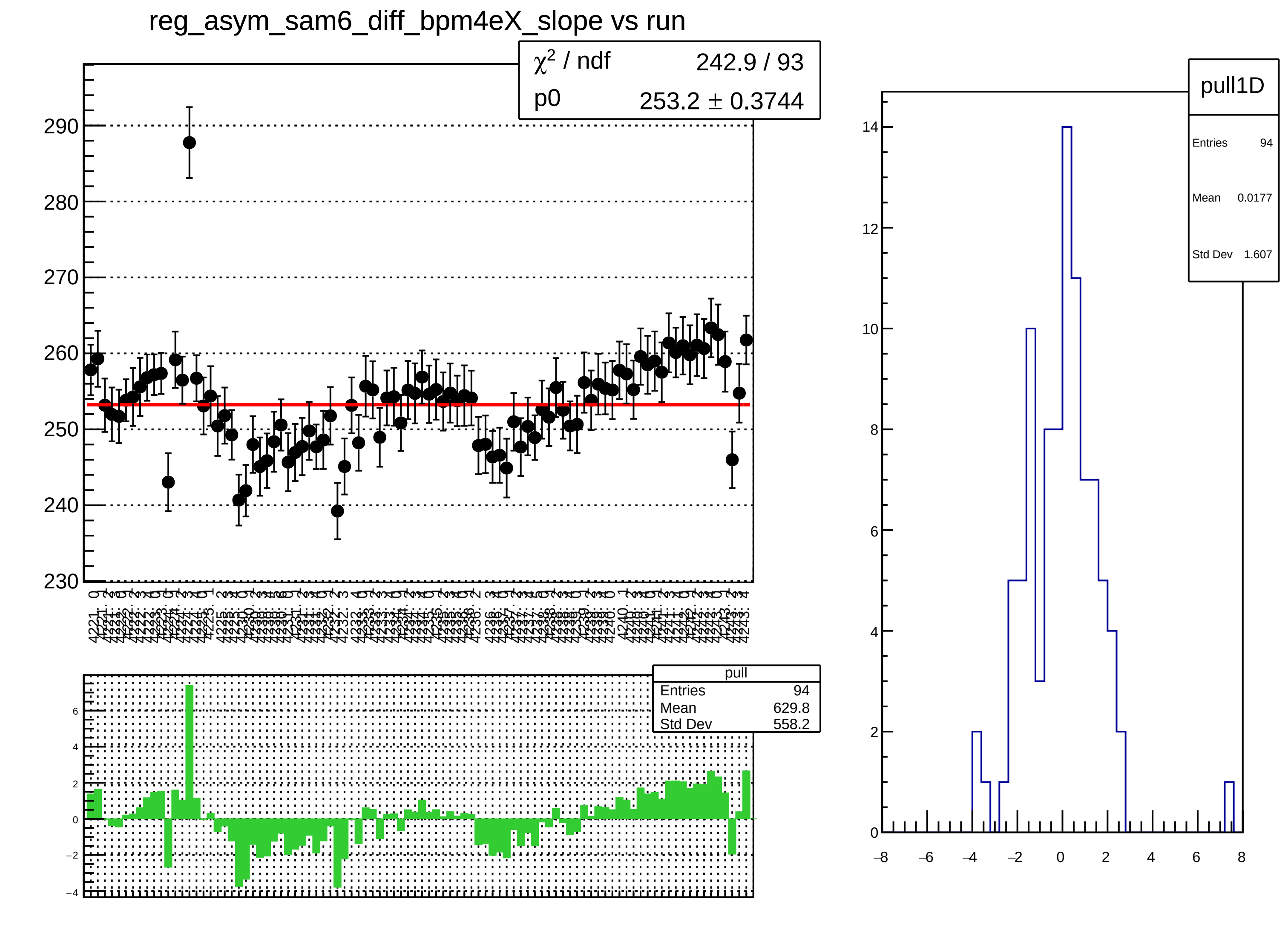
reg_asym_sam5_diff_bpm11X_slope vs run



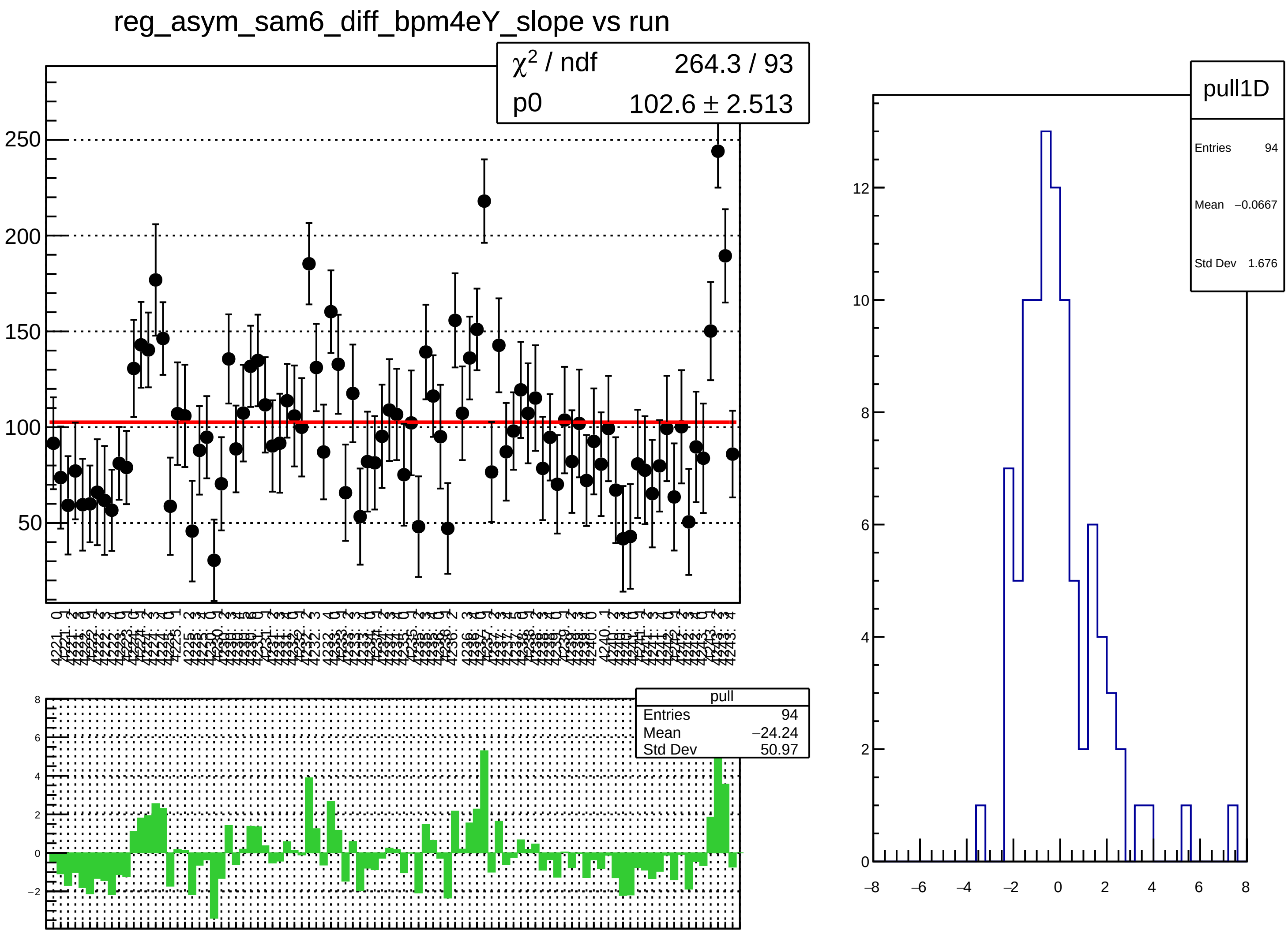

reg_asym_sam6_diff_bpm4aX_slope vs run
χ^2 / ndf 62.21 / 93
p0 −53.73 ± 1.824
pull
Entries 94
Mean 492.1
Std Dev 438.9
pull1D
Entries 94
Mean −0.01798
Std Dev 0.8133



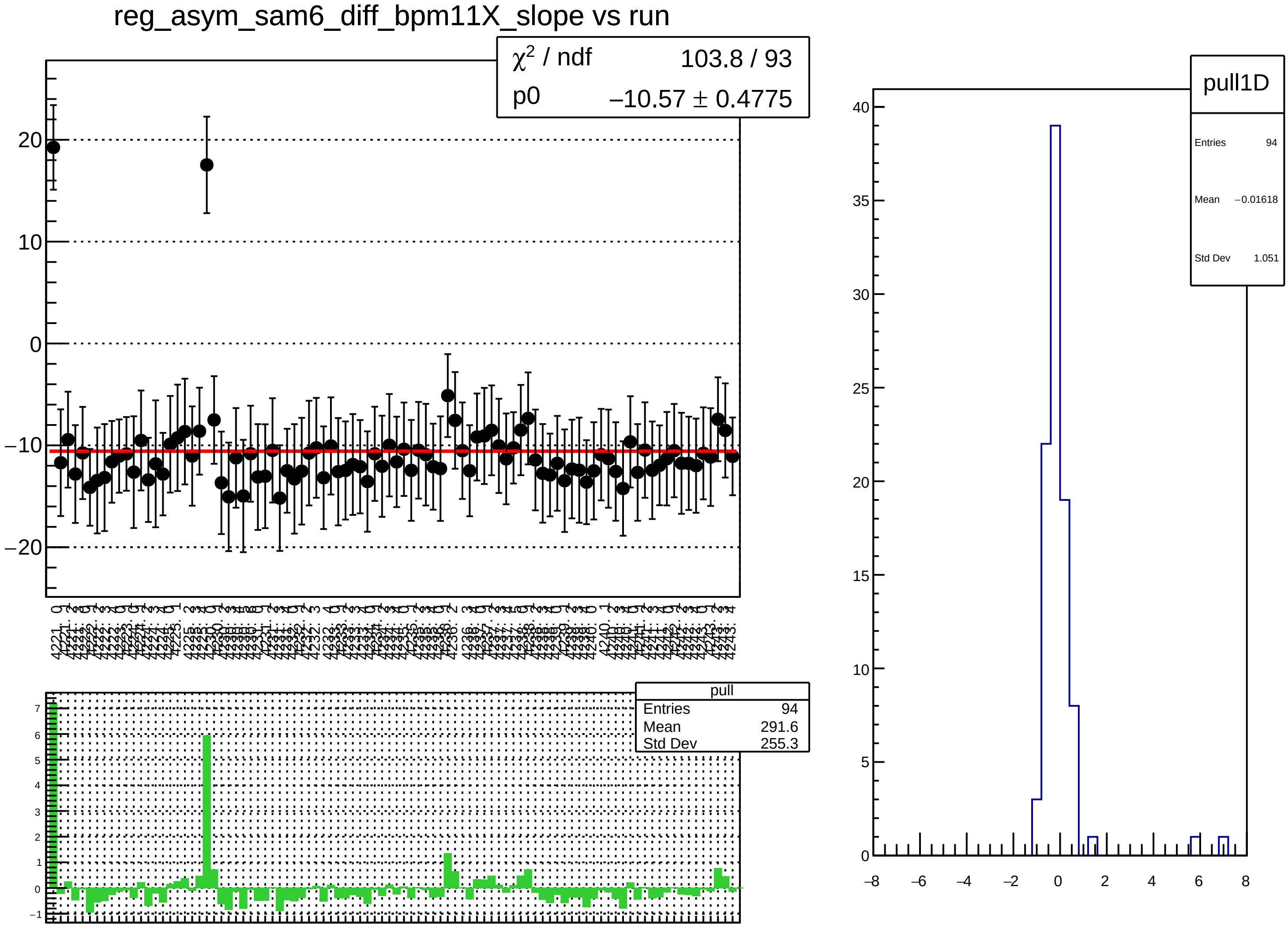
reg_asym_sam6_diff_bpm4aY_slope vs run
χ^2 / ndf 297.3 / 93
p0 94.05 ± 1.532
pull
Entries 94
Mean 85.78
Std Dev 24.81
pull1D
Entries 94
Mean 0.03948
Std Dev 1.778



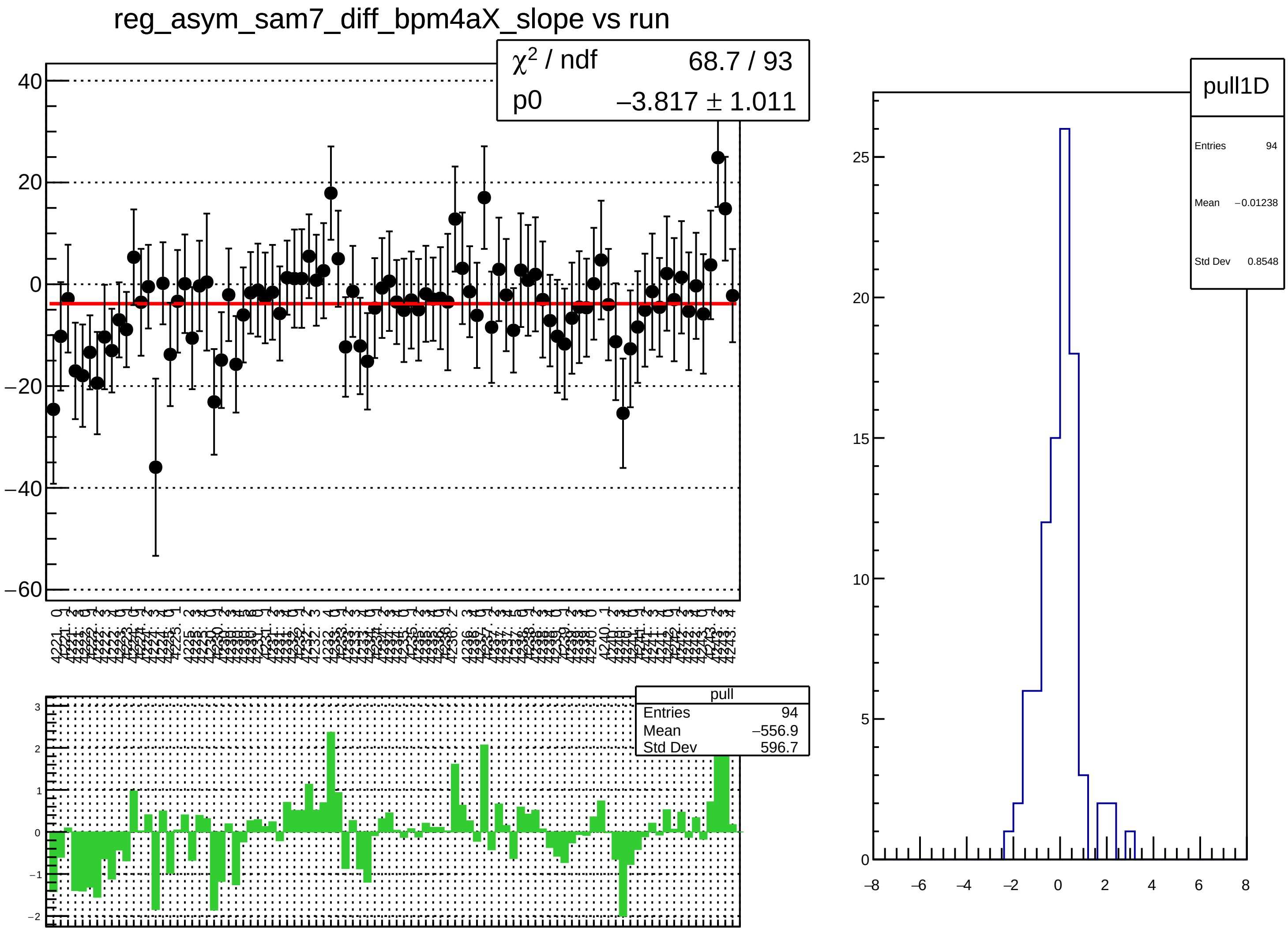
reg_asym_sam6_diff_bpm4eX_slope vs run
χ2 / ndf 242.9 / 93
p0 253.2 ± 0.3744
pull
Entries 94
Mean 629.8
Std Dev 558.2
pull1D
Entries 94
Mean 0.0177
Std Dev 1.607



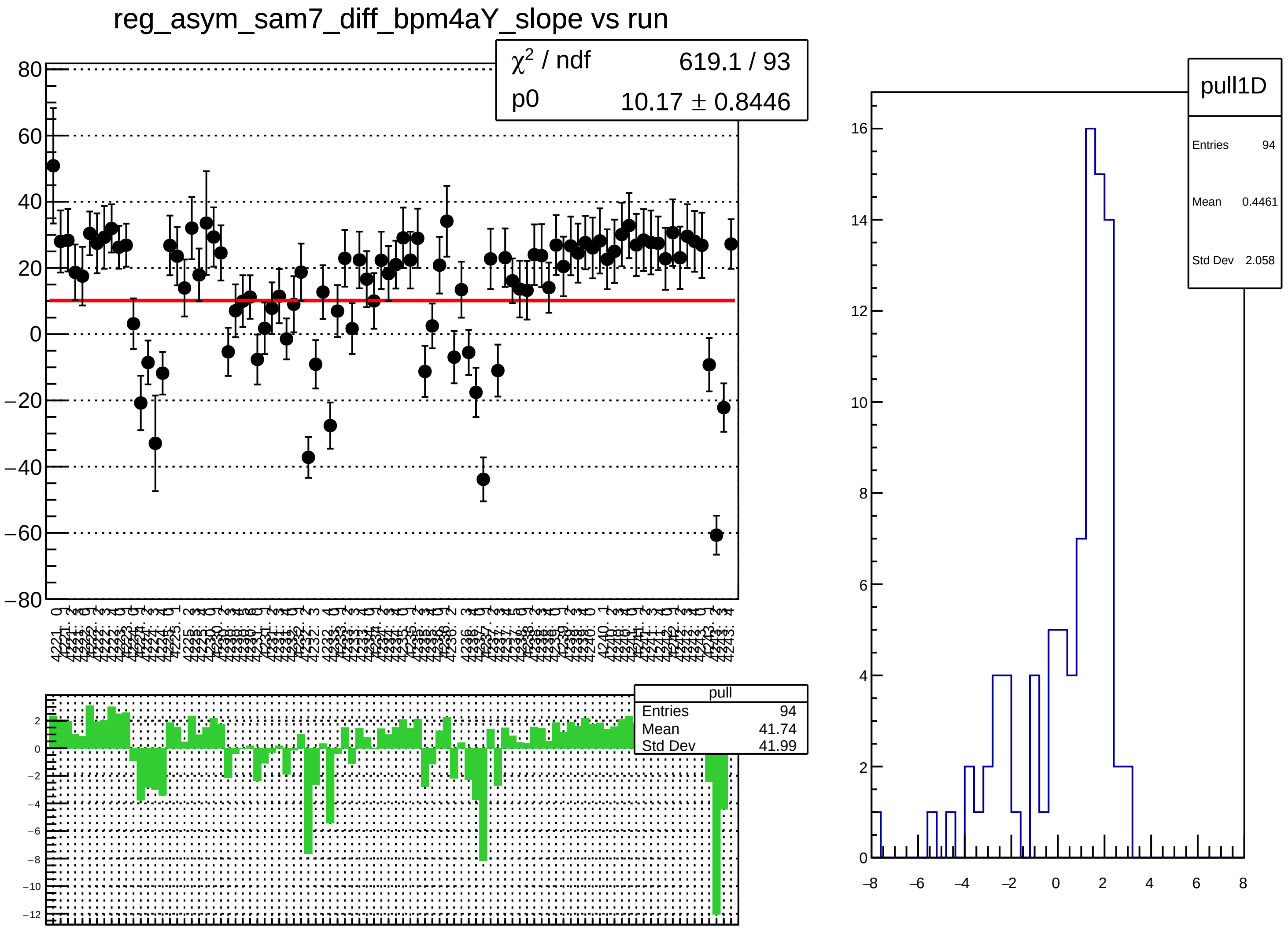
reg_asym_sam6_diff_bpm4eY_slope vs run
χ^2 / ndf 264.3 / 93
p0 102.6 ± 2.513
pull
Entries 94
Mean −24.24
Std Dev 50.97
pull1D
Entries 94
Mean −0.0667
Std Dev 1.676



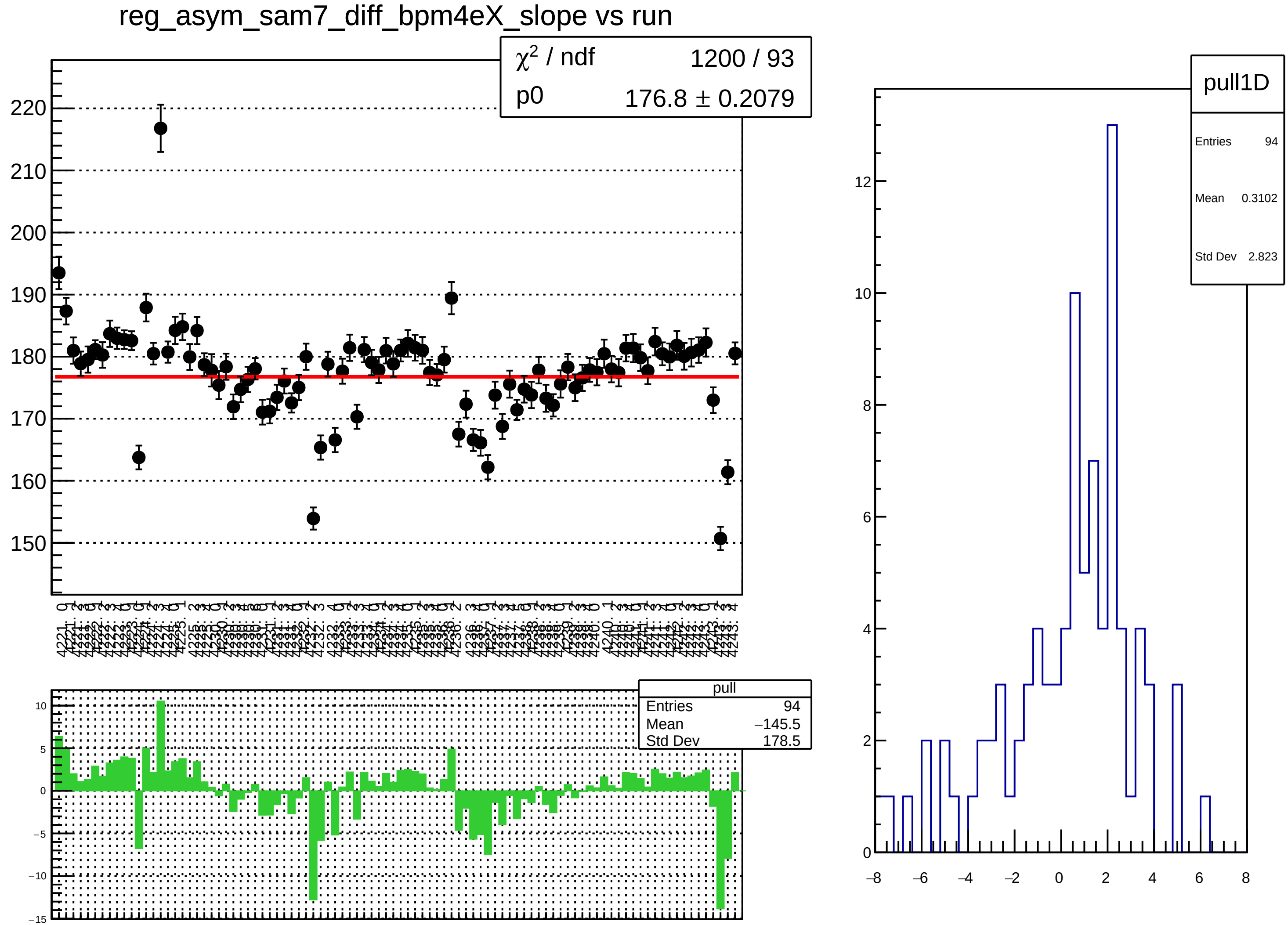
reg_asym_sam6_diff_bpm11X_slope vs run
χ^2 / ndf 103.8 / 93
p0 −10.57 ± 0.4775
pull
Entries 94
Mean 291.6
Std Dev 255.3
pull1D
Entries 94
Mean −0.01618
Std Dev 1.051

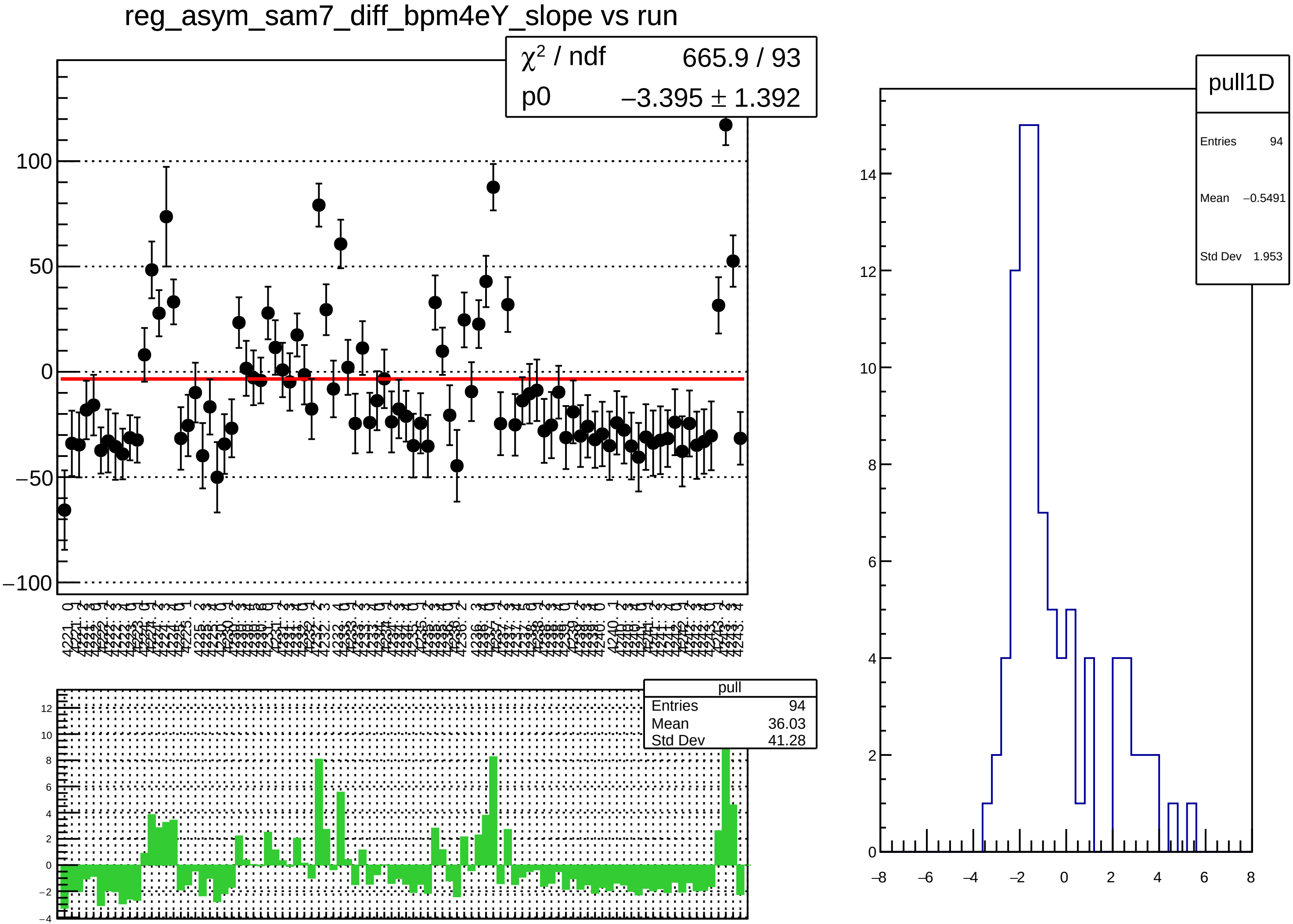


reg_asym_sam7_diff_bpm4aX_slope vs run
χ^2 / ndf 68.7 / 93
p0 −3.817 ± 1.011
pull
Entries 94
Mean −556.9
Std Dev 596.7
pull1D
Entries 94
Mean −0.01238
Std Dev 0.8548

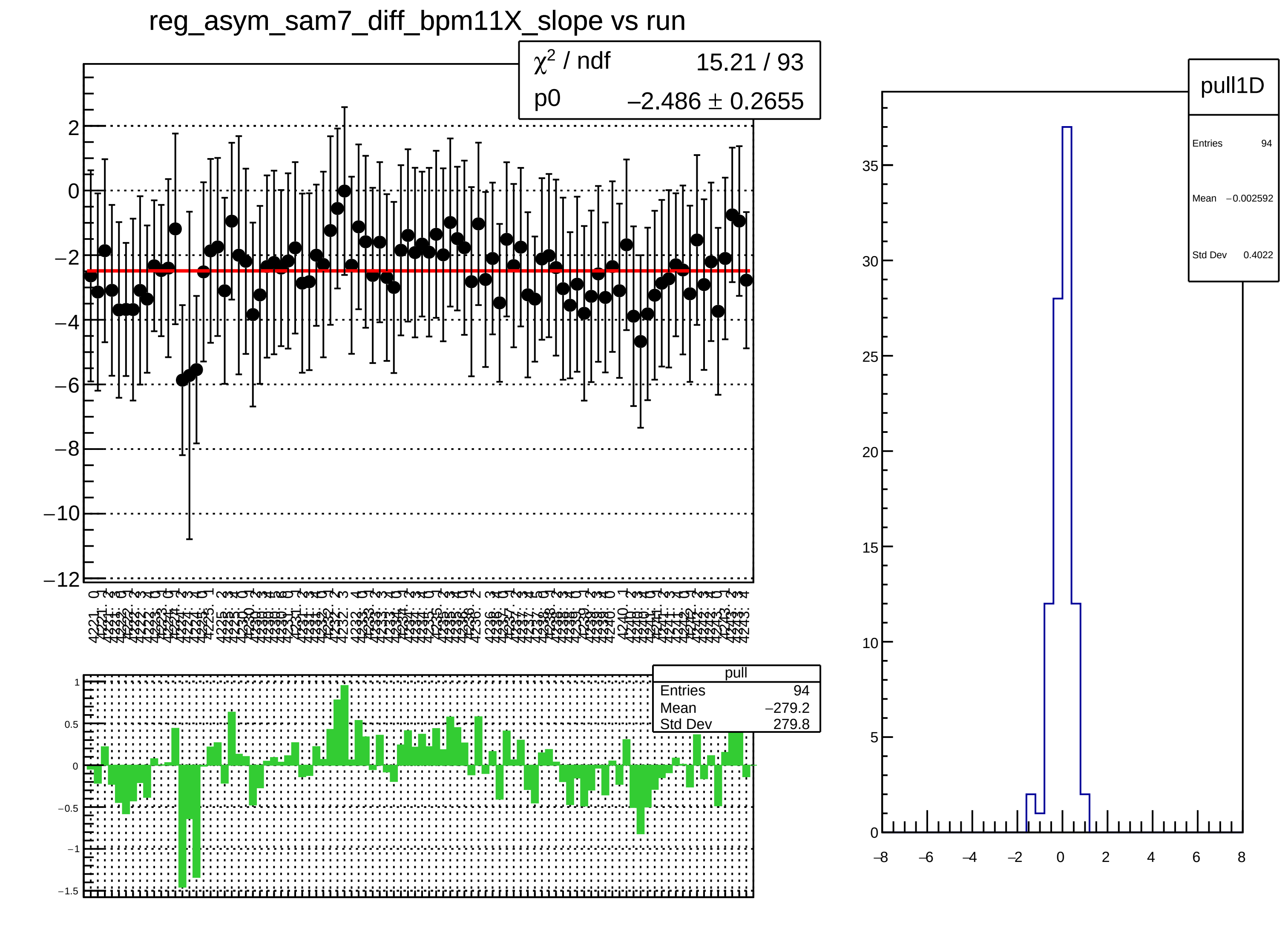


reg_asym_sam7_diff_bpm4aY_slope vs run
χ^2 / ndf 619.1 / 93
p0 10.17 ± 0.8446
pull
Entries 94
Mean 41.74
Std Dev 41.99
pull1D
Entries 94
Mean 0.4461
Std Dev 2.058

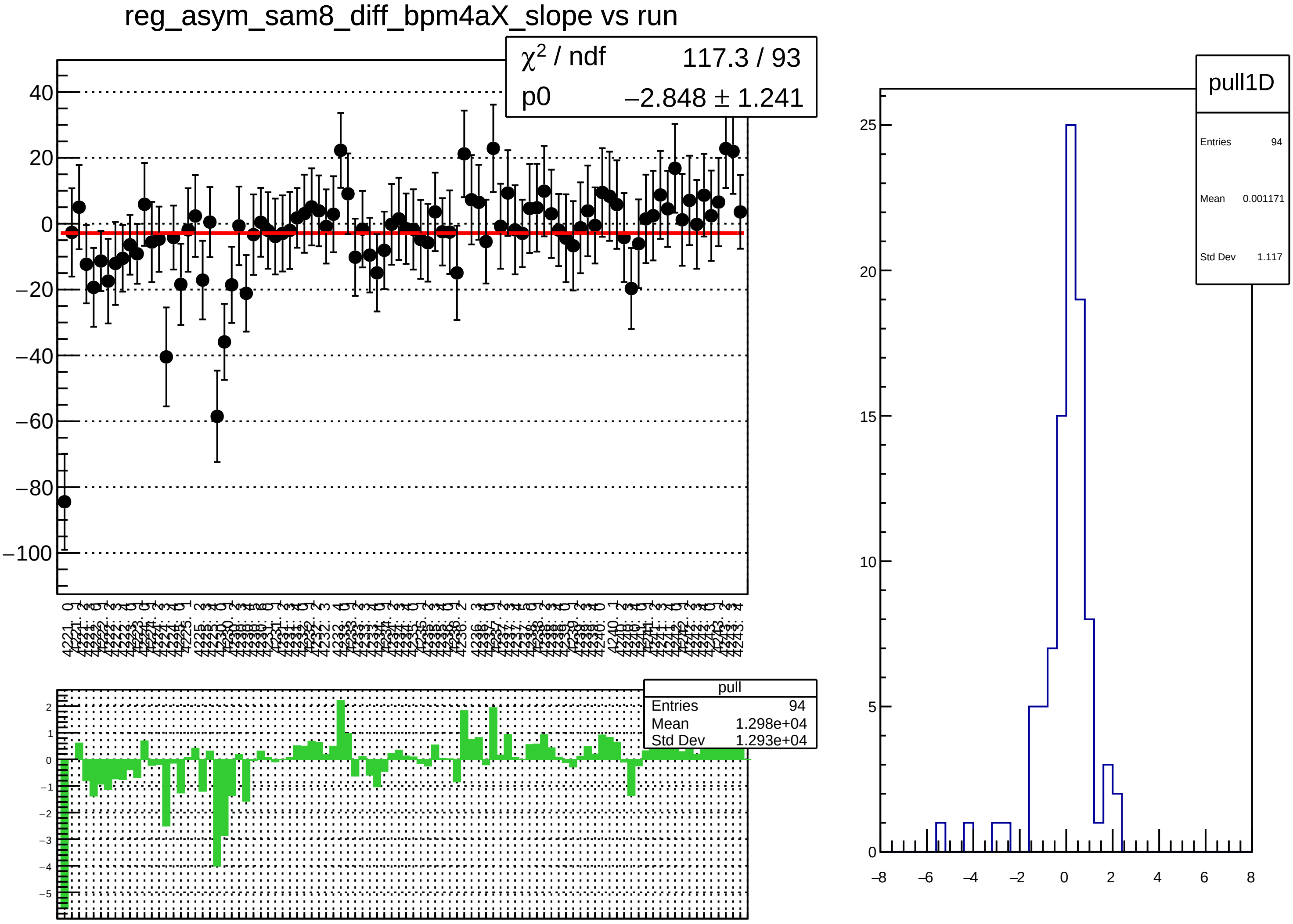

reg_asym_sam7_diff_bpm4eX_slope vs run
χ^2 / ndf 1200 / 93
p0 176.8 ± 0.2079
220
210
200
190
180
170
160
150
pull
Entries 94
Mean −145.5
Std Dev 178.5
10
5
0
−5
−10
−15
pull1D
Entries 94
Mean 0.3102
Std Dev 2.823
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



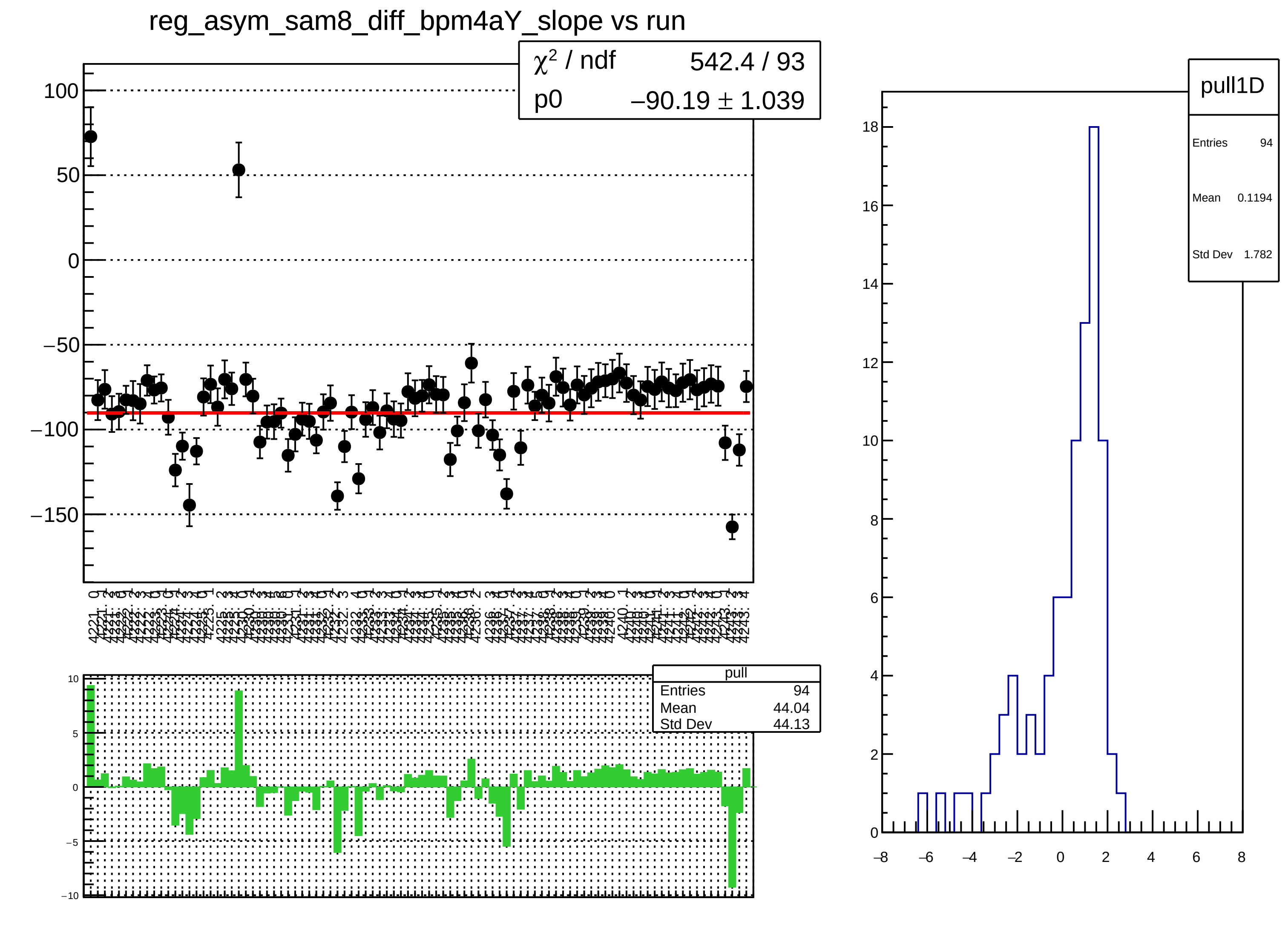
reg_asym_sam7_diff_bpm4eY_slope vs run
χ^2 / ndf 665.9 / 93
p0 −3.395 ± 1.392
100
50
0
−50
−100
pull
Entries 94
Mean 36.03
Std Dev 41.28
12
10
8
6
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.5491
Std Dev 1.953
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



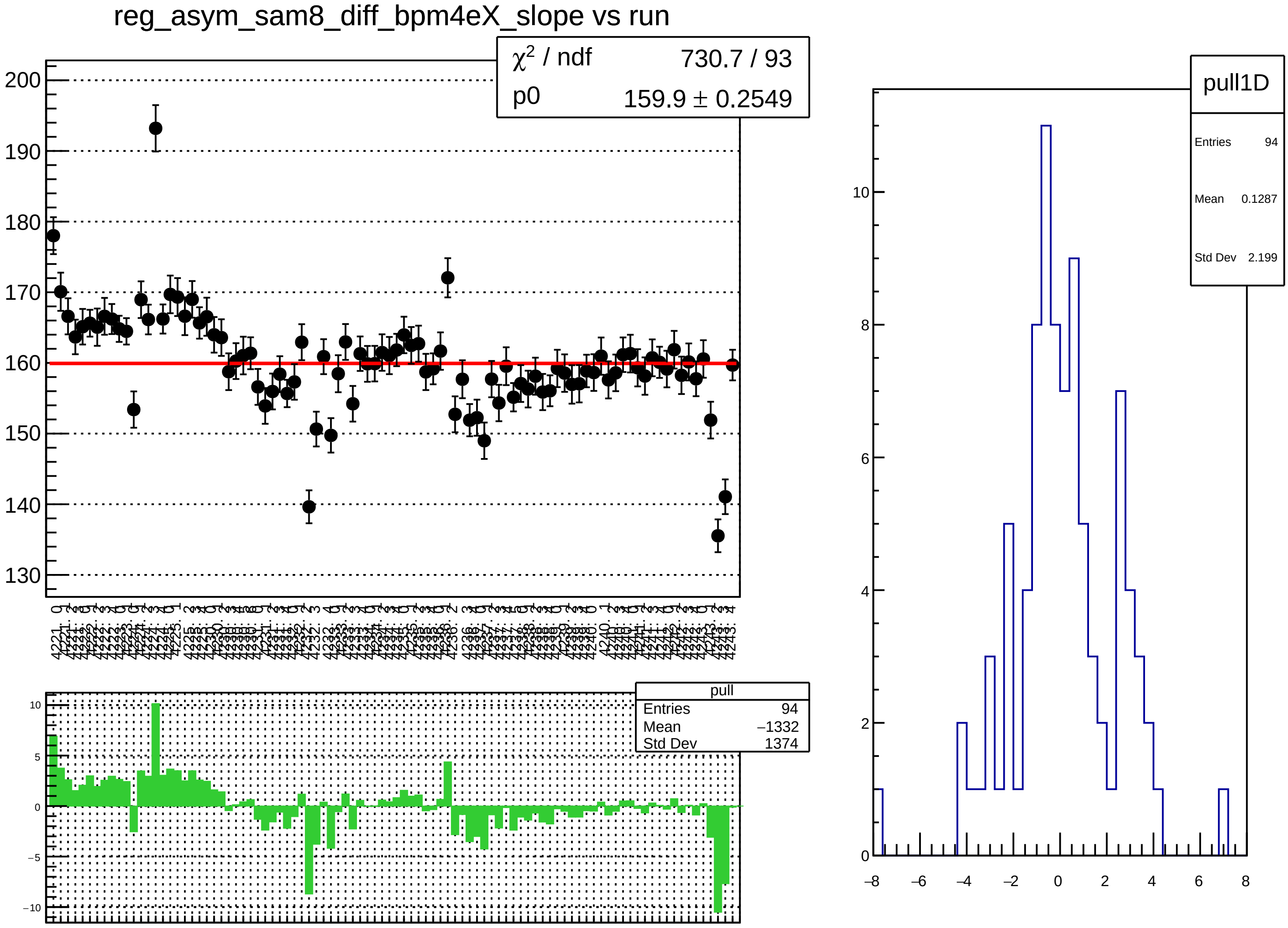
reg_asym_sam7_diff_bpm11X_slope vs run
χ2 / ndf 15.21 / 93
p0 −2.486 ± 0.2655
pull
Entries 94
Mean −279.2
Std Dev 279.8
pull1D
Entries 94
Mean −0.002592
Std Dev 0.4022



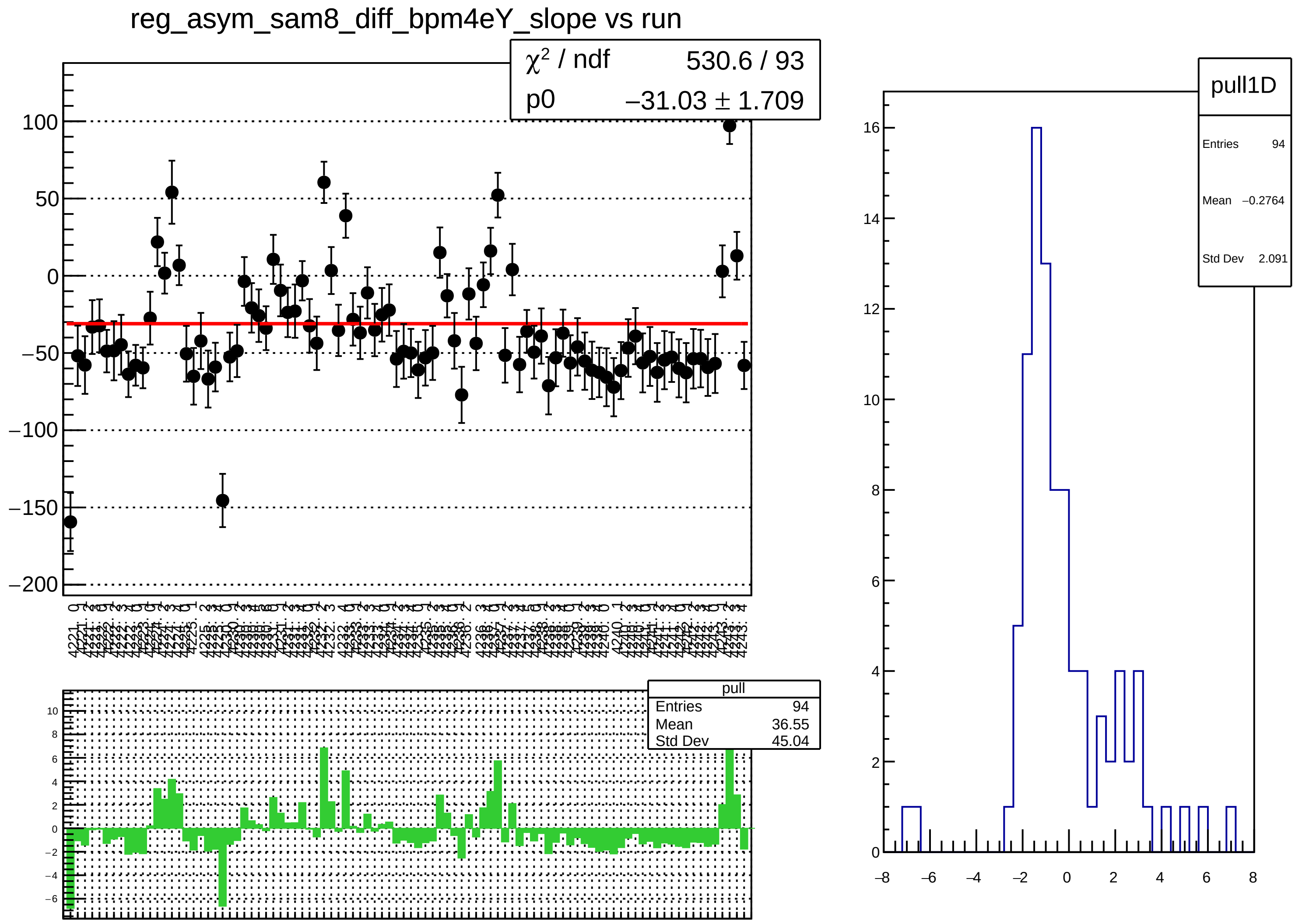
reg_asym_sam8_diff_bpm4aX_slope vs run
χ2 / ndf 117.3 / 93
p0 −2.848 ± 1.241
pull
Entries 94
Mean 1.298e+04
Std Dev 1.293e+04
pull1D
Entries 94
Mean 0.001171
Std Dev 1.117



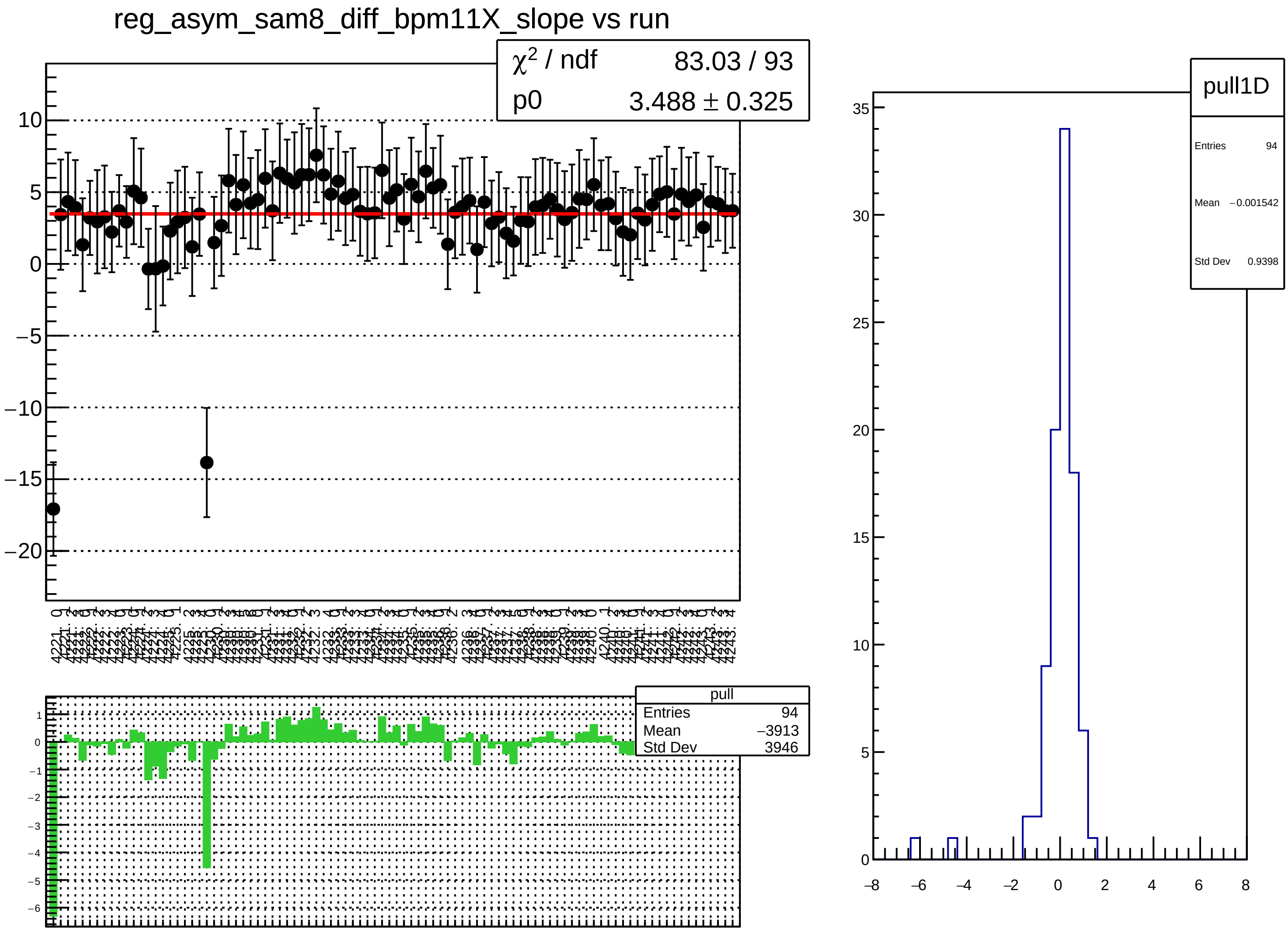
reg_asym_sam8_diff_bpm4aY_slope vs run
χ2 / ndf 542.4 / 93
p0 −90.19 ± 1.039
pull
Entries 94
Mean 44.04
Std Dev 44.13
pull1D
Entries 94
Mean 0.1194
Std Dev 1.782



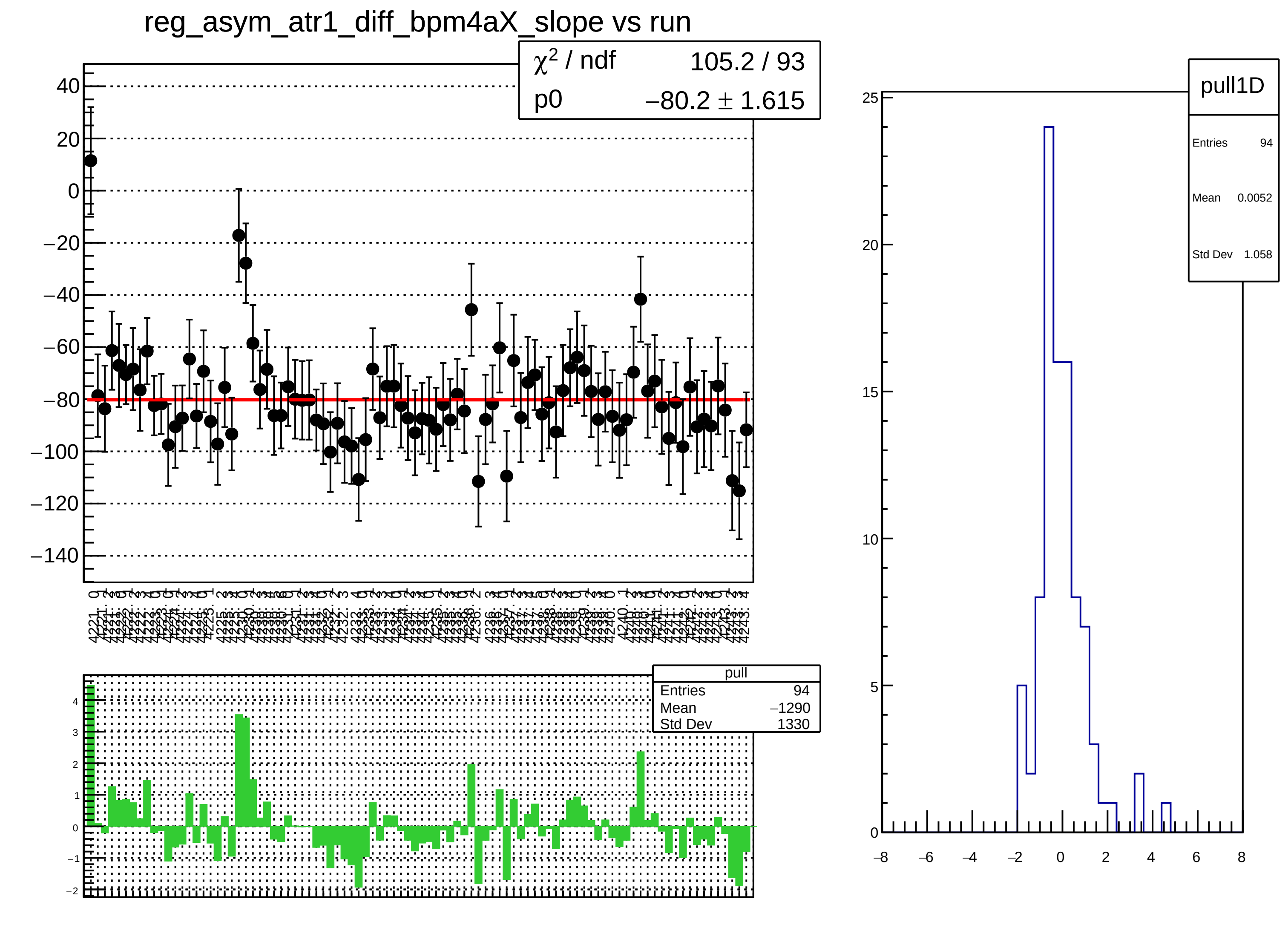
reg_asym_sam8_diff_bpm4eX_slope vs run
χ2 / ndf 730.7 / 93
p0 159.9 ± 0.2549
pull
Entries 94
Mean −1332
Std Dev 1374
pull1D
Entries 94
Mean 0.1287
Std Dev 2.199



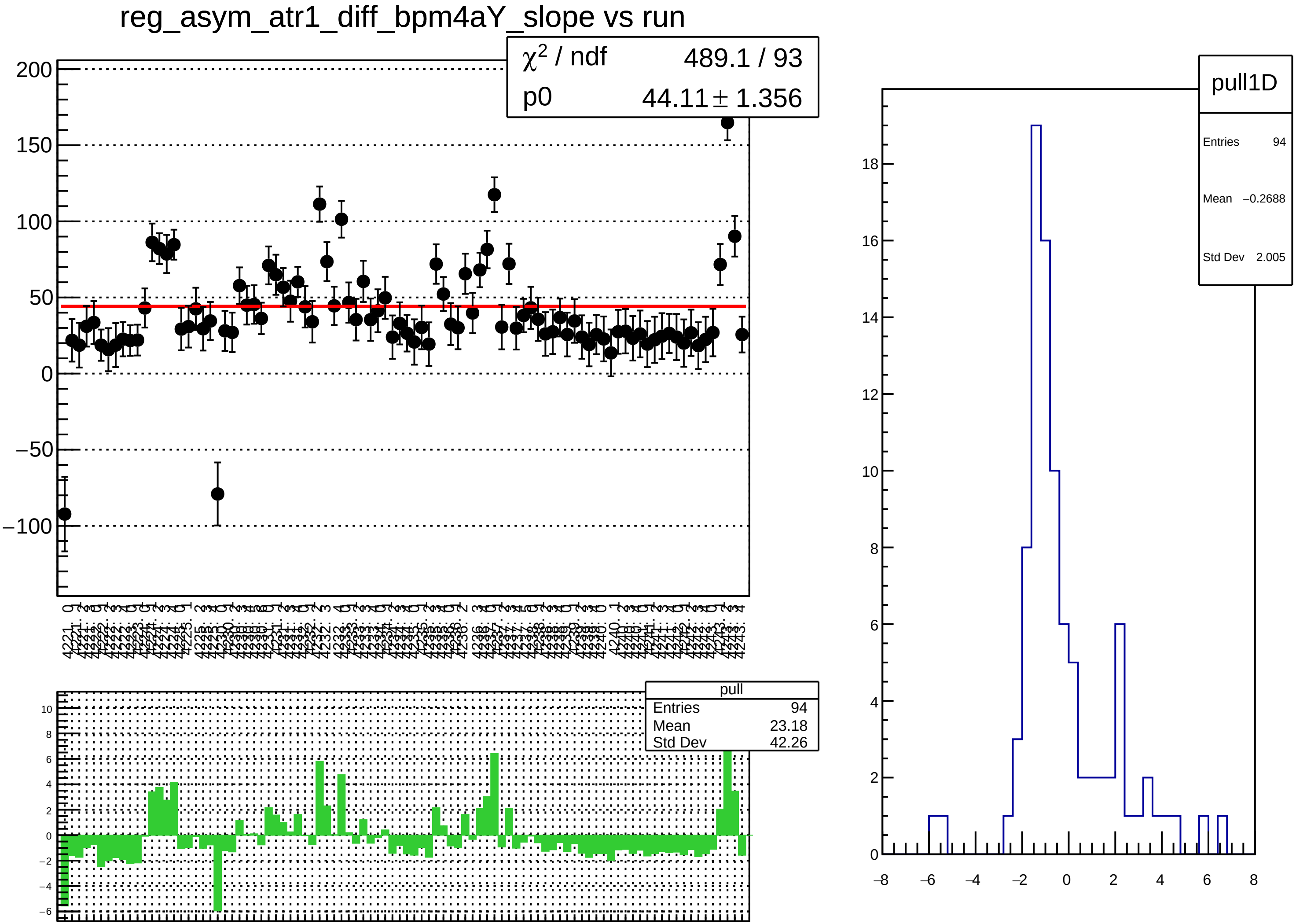
reg_asym_sam8_diff_bpm4eY_slope vs run
χ^2 / ndf 530.6 / 93
p0 −31.03 ± 1.709
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 36.55
Std Dev 45.04
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 94
Mean −0.2764
Std Dev 2.091
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

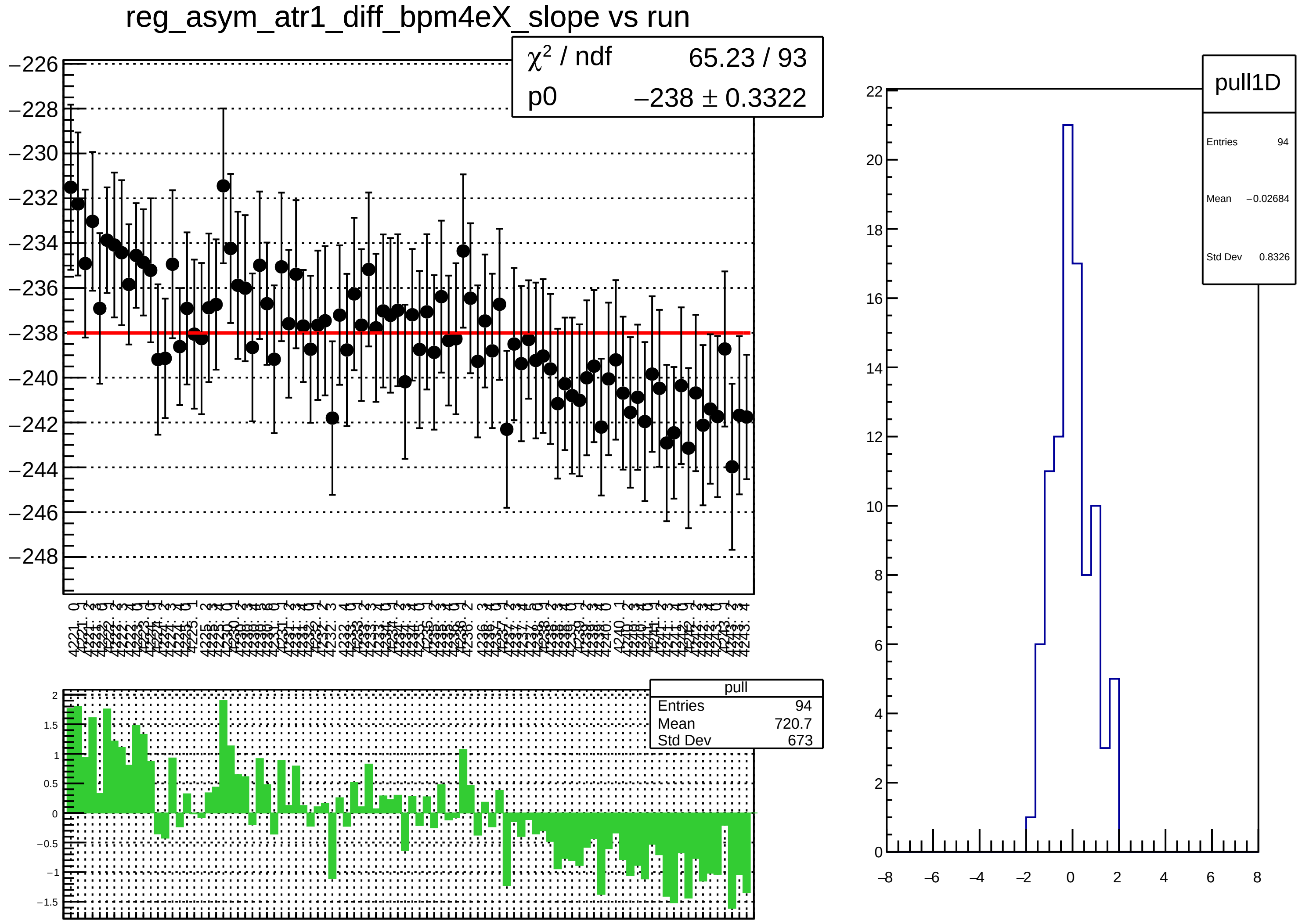


reg_asym_sam8_diff_bpm11X_slope vs run
χ2 / ndf 83.03 / 93
p0 3.488 ± 0.325
pull
Entries 94
Mean −3913
Std Dev 3946
pull1D
Entries 94
Mean −0.001542
Std Dev 0.9398

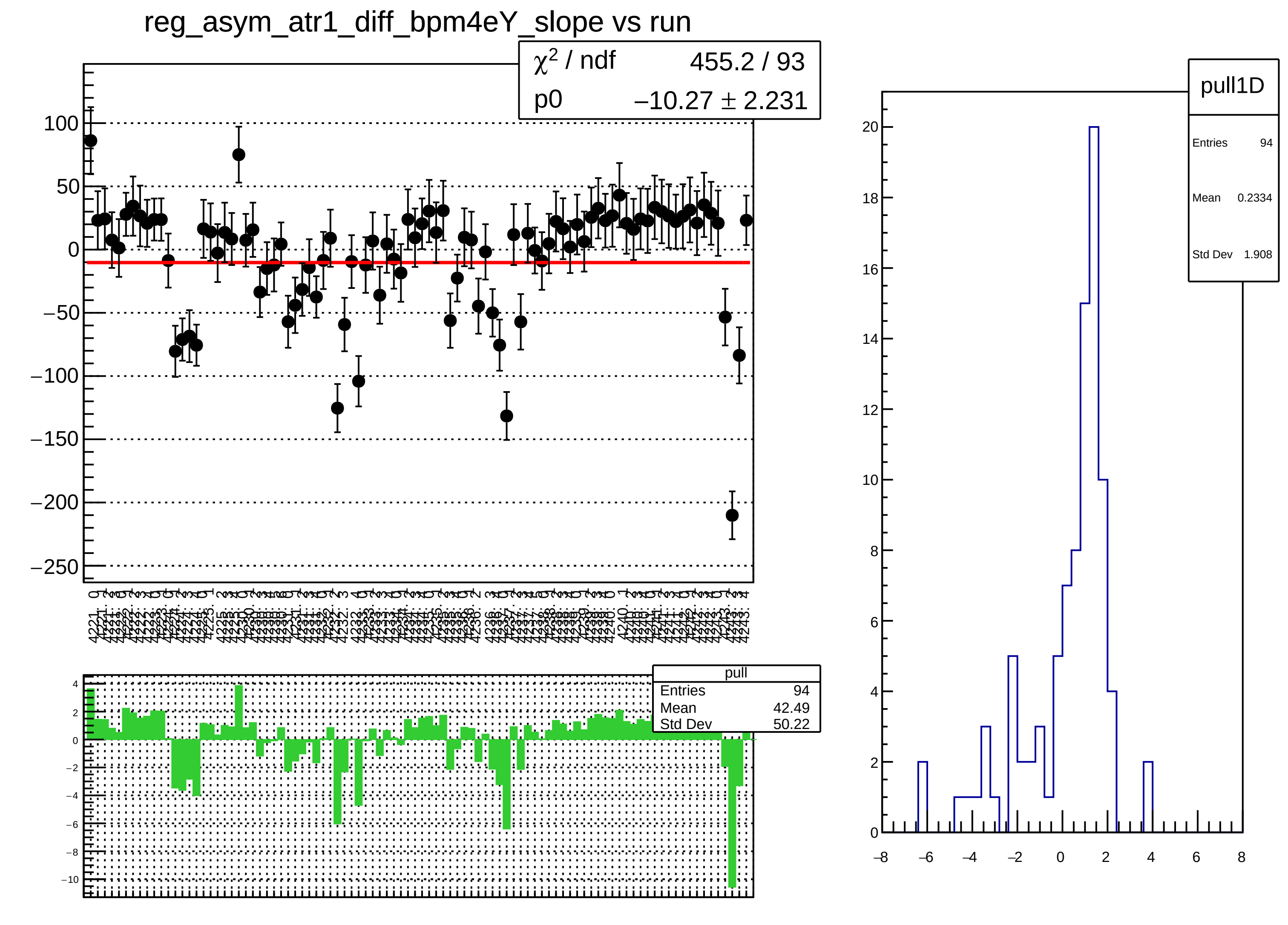


reg_asym_atr1_diff_bpm4aX_slope vs run
χ^2 / ndf 105.2 / 93
p0 −80.2 ± 1.615
pull
Entries 94
Mean −1290
Std Dev 1330
pull1D
Entries 94
Mean 0.0052
Std Dev 1.058

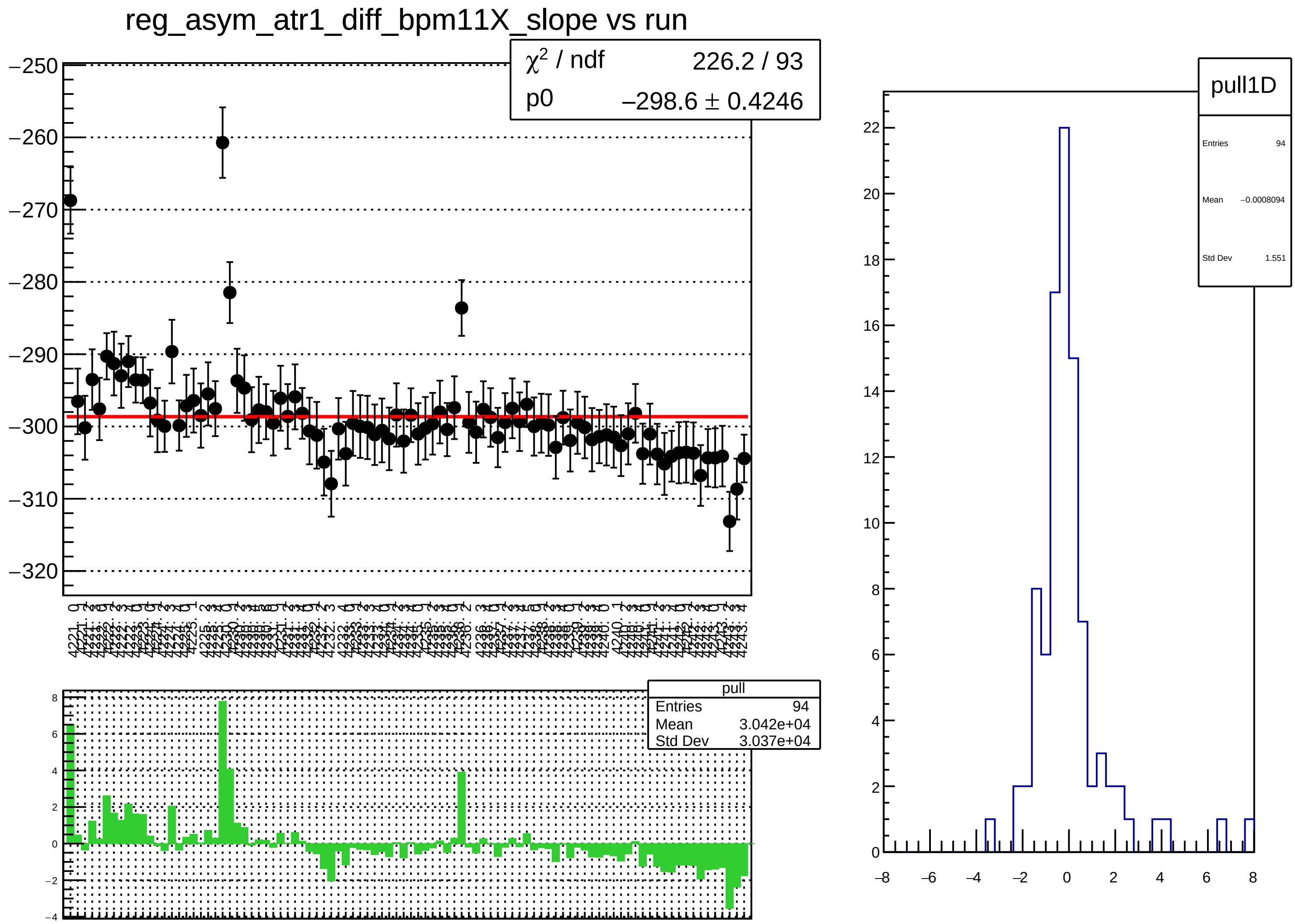

reg_asym_atr1_diff_bpm4aY_slope vs run
χ^2 / ndf 489.1 / 93
p0 44.11 ± 1.356
pull
Entries 94
Mean 23.18
Std Dev 42.26
pull1D
Entries 94
Mean −0.2688
Std Dev 2.005



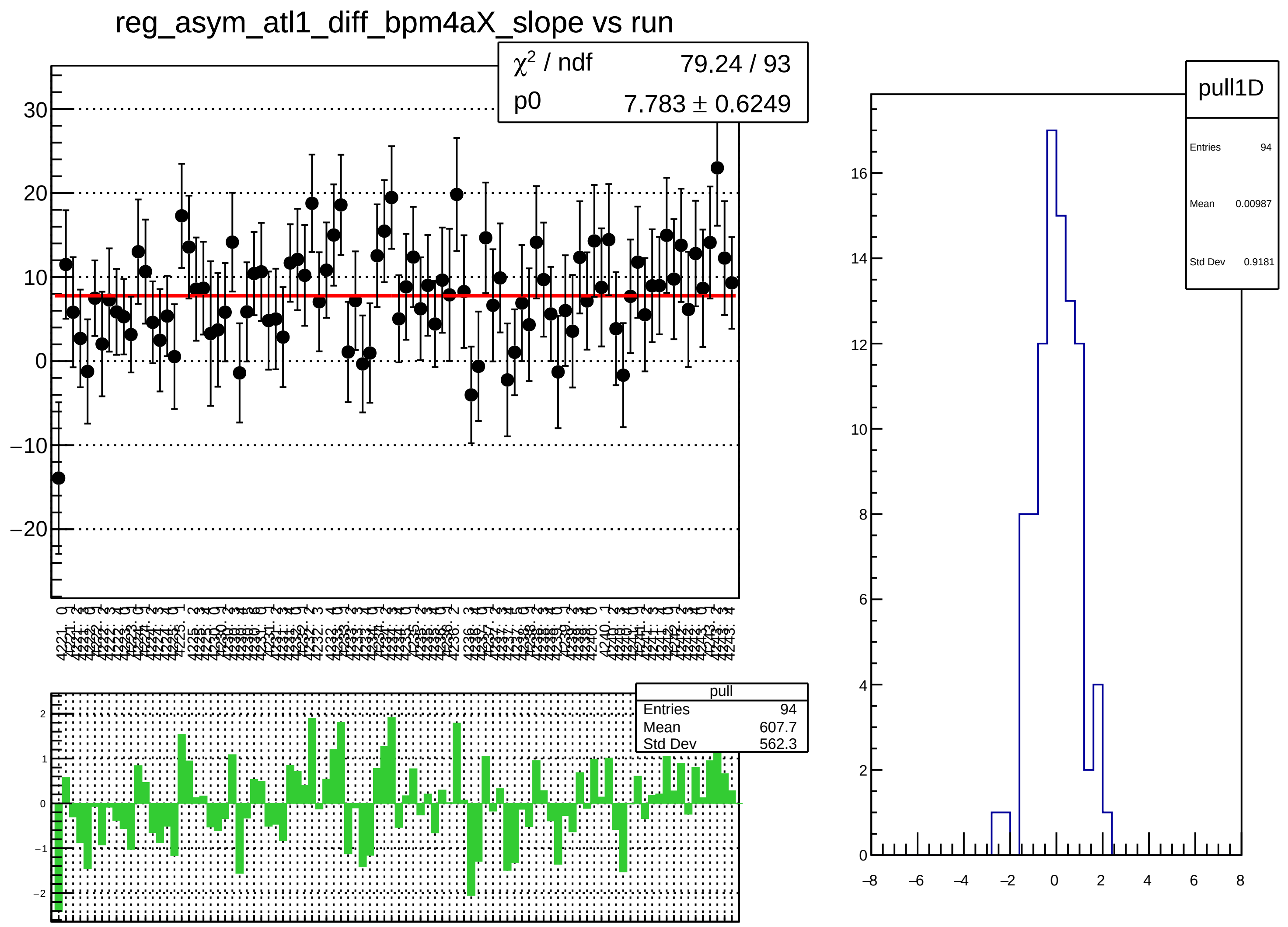
reg_asym_atr1_diff_bpm4eX_slope vs run
χ2 / ndf 65.23 / 93
p0 −238 ± 0.3322
pull
Entries 94
Mean 720.7
Std Dev 673
pull1D
Entries 94
Mean −0.02684
Std Dev 0.8326



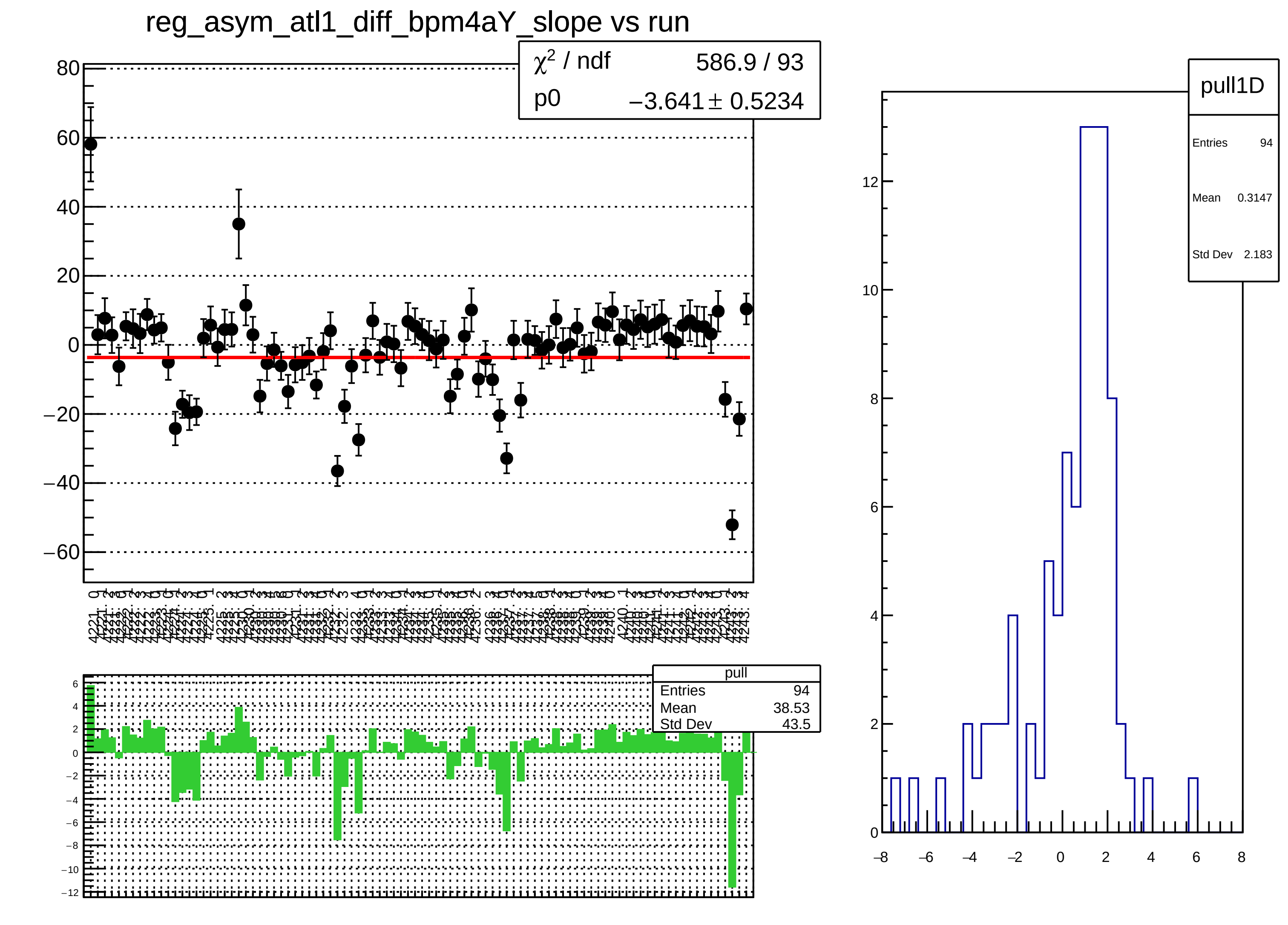
reg_asym_atr1_diff_bpm4eY_slope vs run
χ^2 / ndf 455.2 / 93
p0 −10.27 ± 2.231
pull
Entries 94
Mean 42.49
Std Dev 50.22
pull1D
Entries 94
Mean 0.2334
Std Dev 1.908

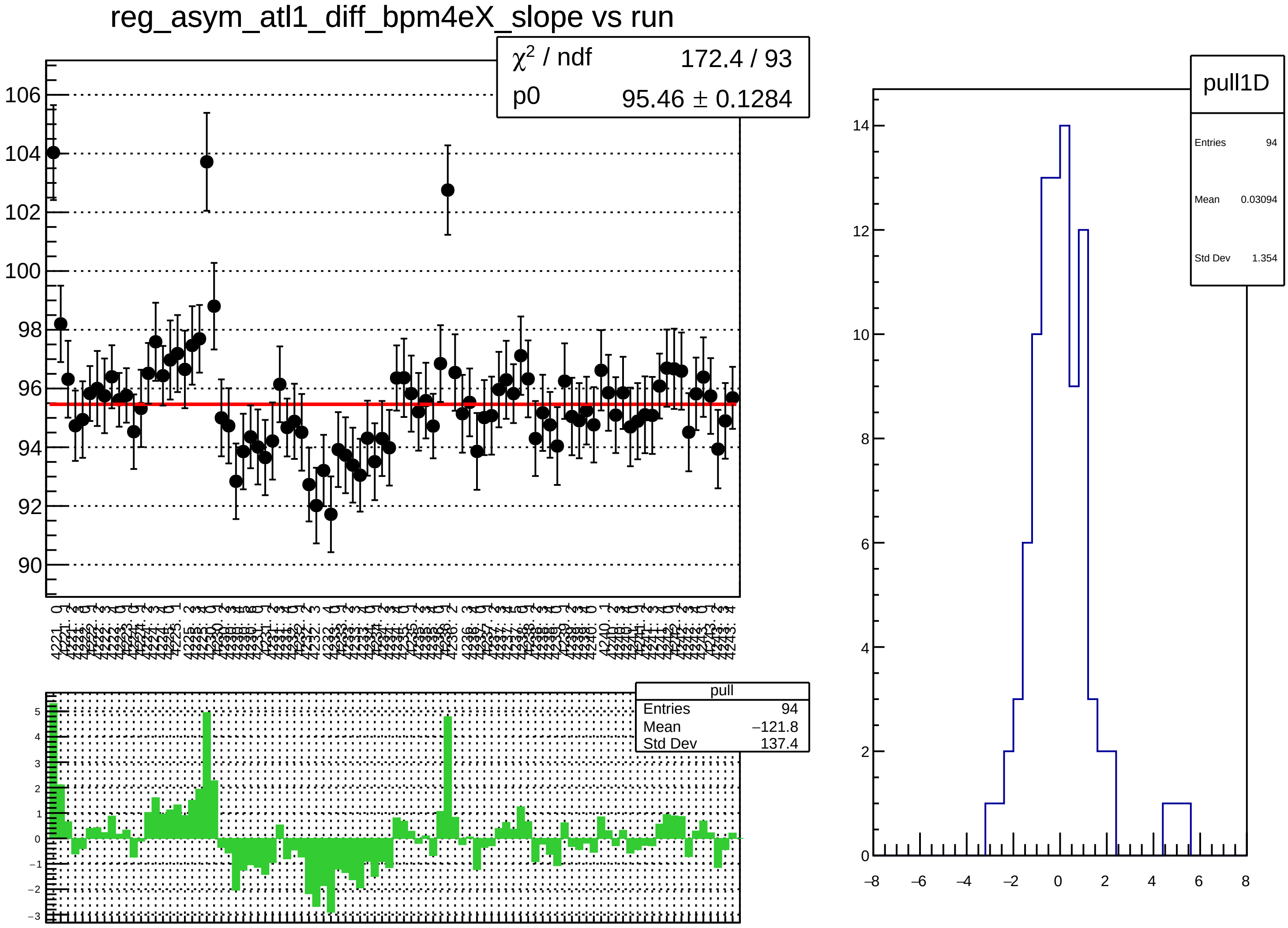


reg_asym_atr1_diff_bpm11X_slope vs run
χ2 / ndf 226.2 / 93
p0 −298.6 ± 0.4246
pull
Entries 94
Mean 3.042e+04
Std Dev 3.037e+04
pull1D
Entries 94
Mean −0.0008094
Std Dev 1.551

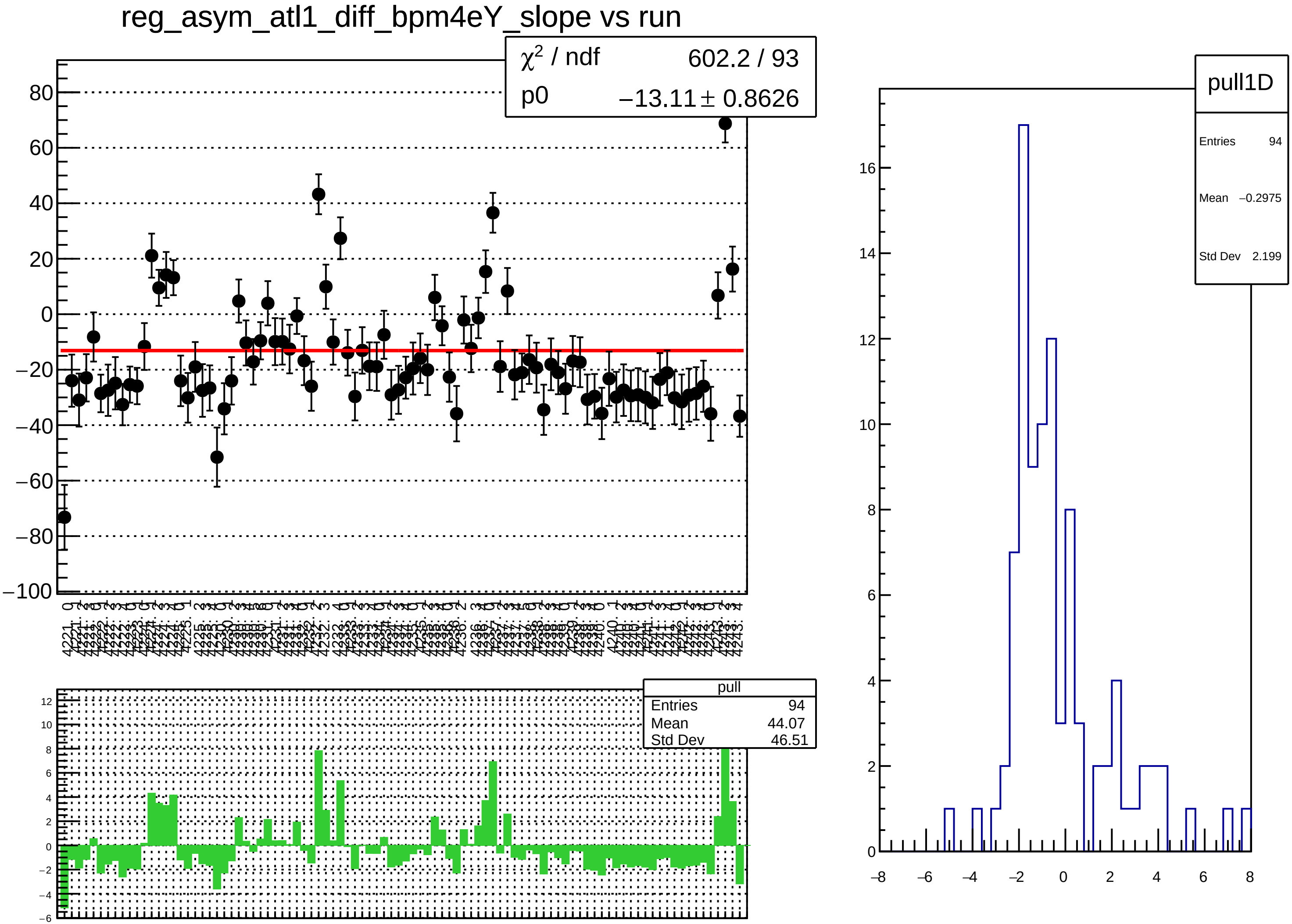


reg_asym_atl1_diff_bpm4aX_slope vs run
χ2 / ndf 79.24 / 93
p0 7.783 ± 0.6249
pull
Entries 94
Mean 607.7
Std Dev 562.3
pull1D
Entries 94
Mean 0.00987
Std Dev 0.9181

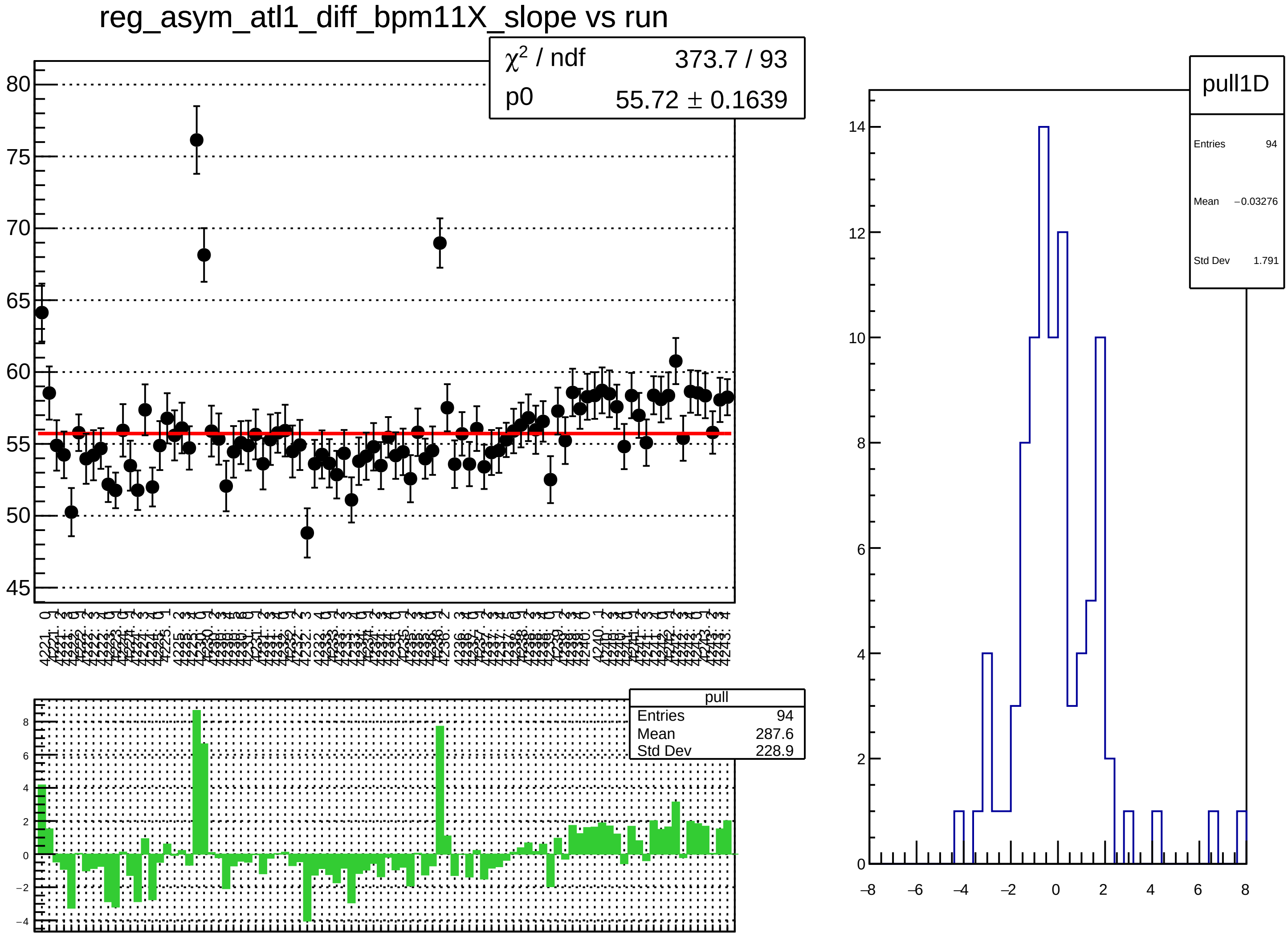

reg_asym_atl1_diff_bpm4aY_slope vs run
χ^2 / ndf 586.9 / 93
p0 −3.641 ± 0.5234
pull
Entries 94
Mean 38.53
Std Dev 43.5
pull1D
Entries 94
Mean 0.3147
Std Dev 2.183



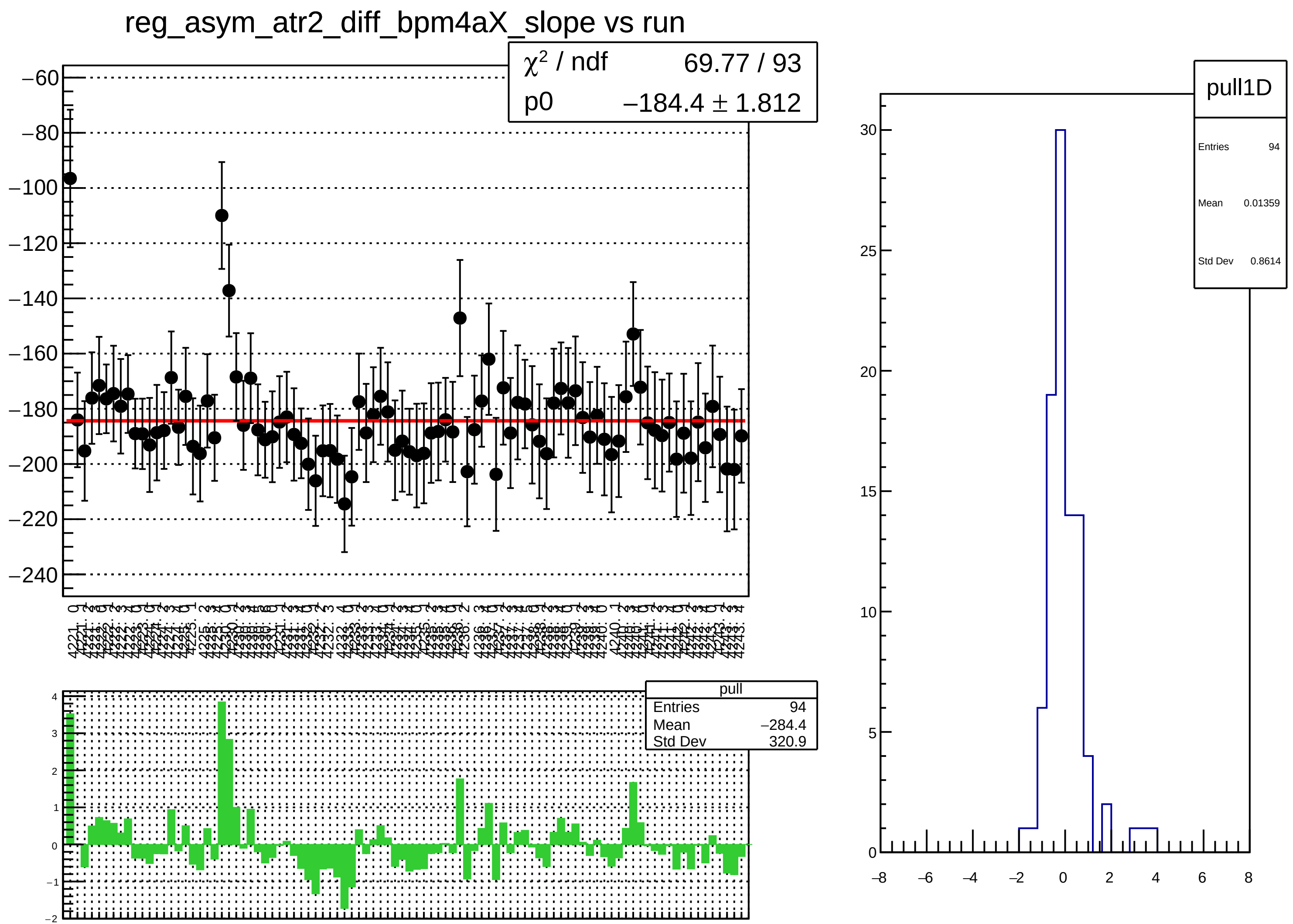
reg_asym_atl1_diff_bpm4eX_slope vs run
χ2 / ndf 172.4 / 93
p0 95.46 ± 0.1284
pull
Entries 94
Mean −121.8
Std Dev 137.4
pull1D
Entries 94
Mean 0.03094
Std Dev 1.354



reg_asym_atl1_diff_bpm4eY_slope vs run
χ2 / ndf 602.2 / 93
p0 −13.11 ± 0.8626
pull
Entries 94
Mean 44.07
Std Dev 46.51
pull1D
Entries 94
Mean −0.2975
Std Dev 2.199

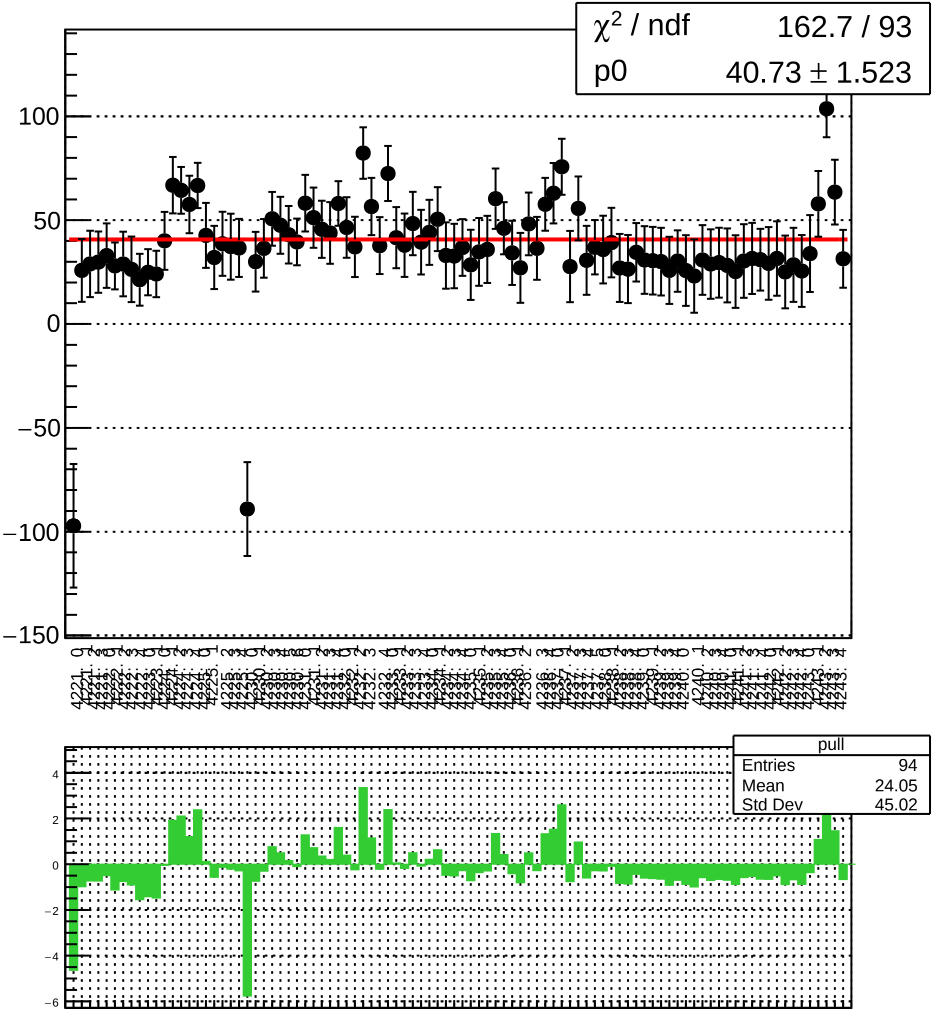


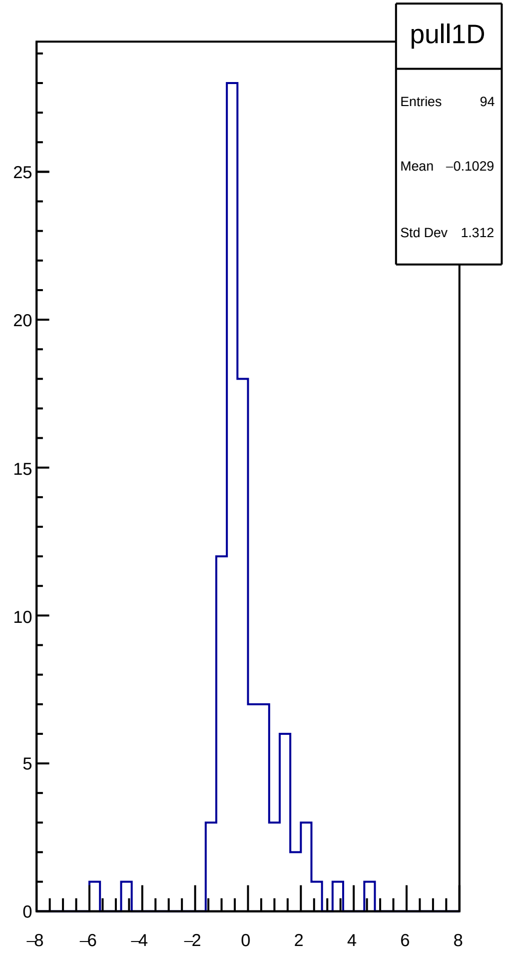
reg_asym_atl1_diff_bpm11X_slope vs run
χ2 / ndf 373.7 / 93
p0 55.72 ± 0.1639
pull
Entries 94
Mean 287.6
Std Dev 228.9
pull1D
Entries 94
Mean −0.03276
Std Dev 1.791

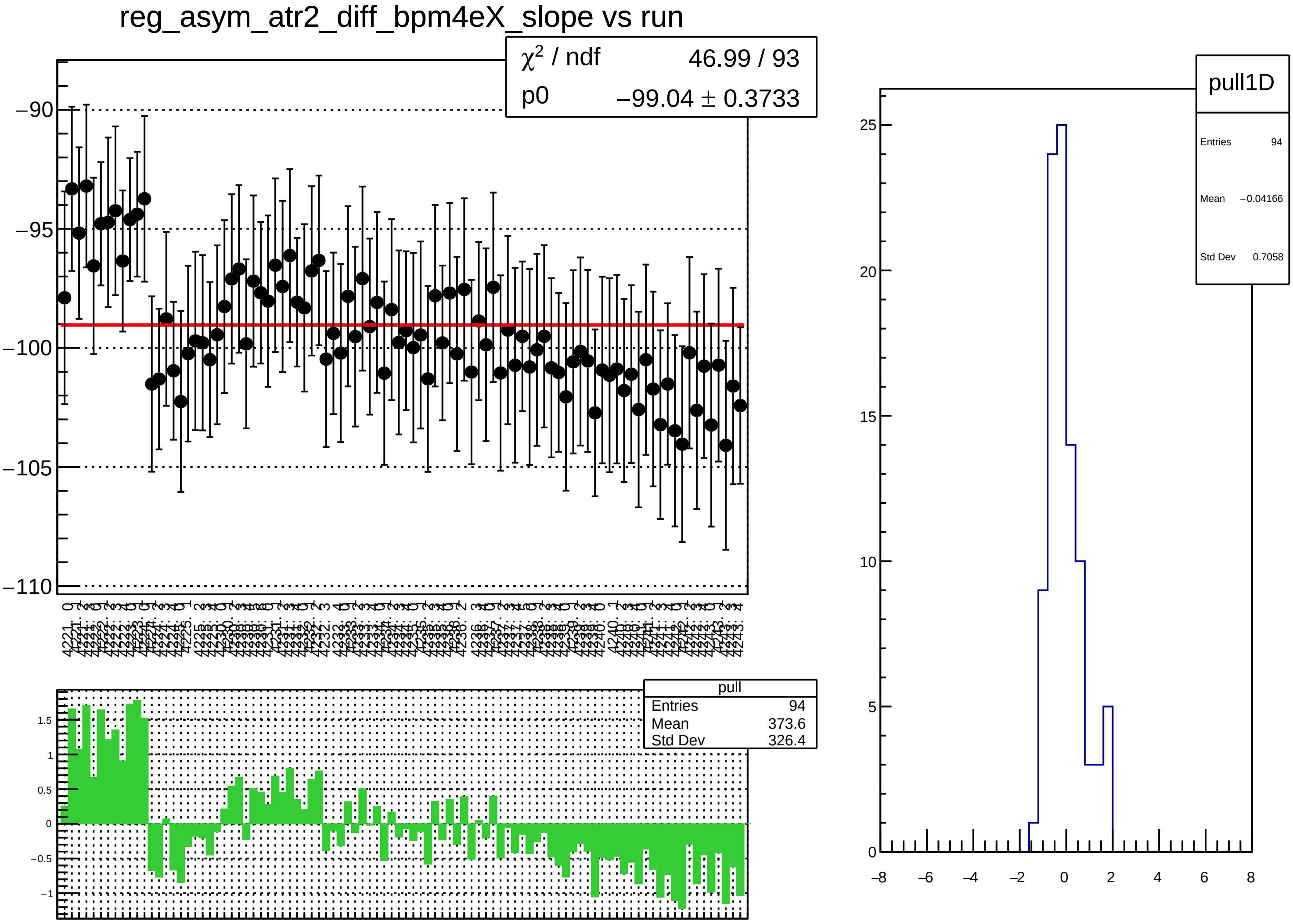


reg_asym_atr2_diff_bpm4aX_slope vs run
χ2 / ndf 69.77 / 93
p0 −184.4 ± 1.812
pull
Entries 94
Mean −284.4
Std Dev 320.9
pull1D
Entries 94
Mean 0.01359
Std Dev 0.8614

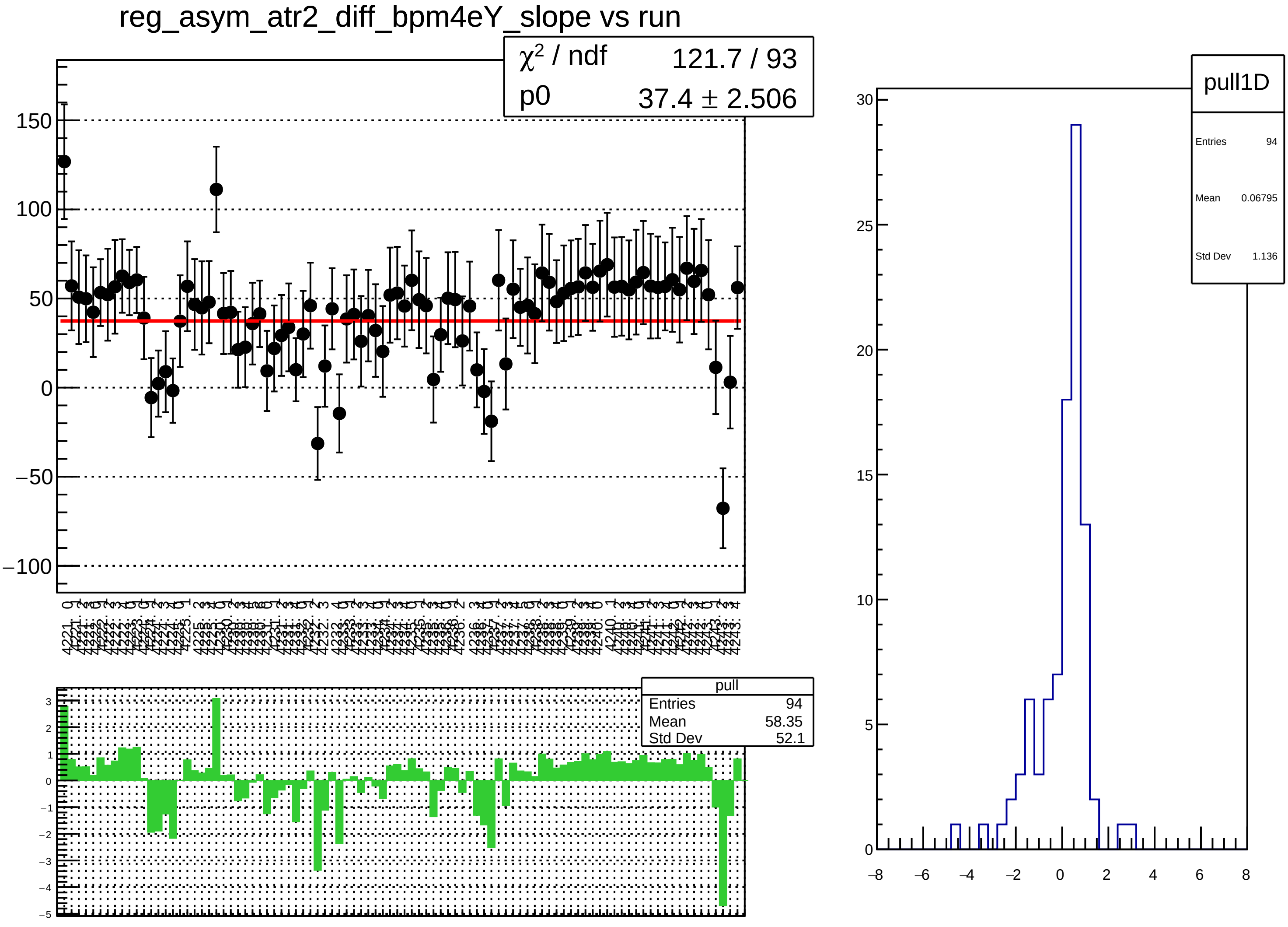
reg_asym_atr2_diff_bpm4aY_slope vs run



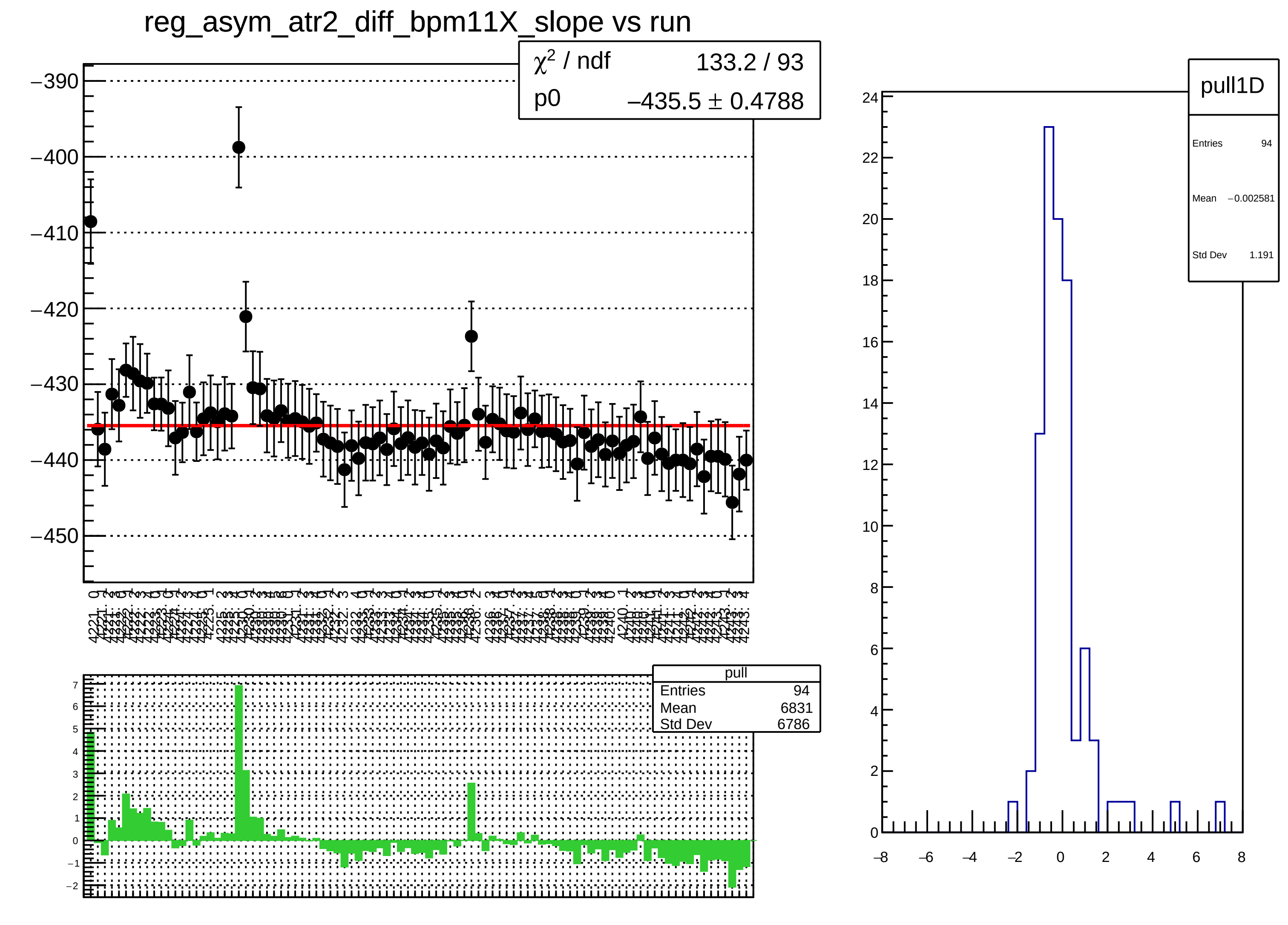




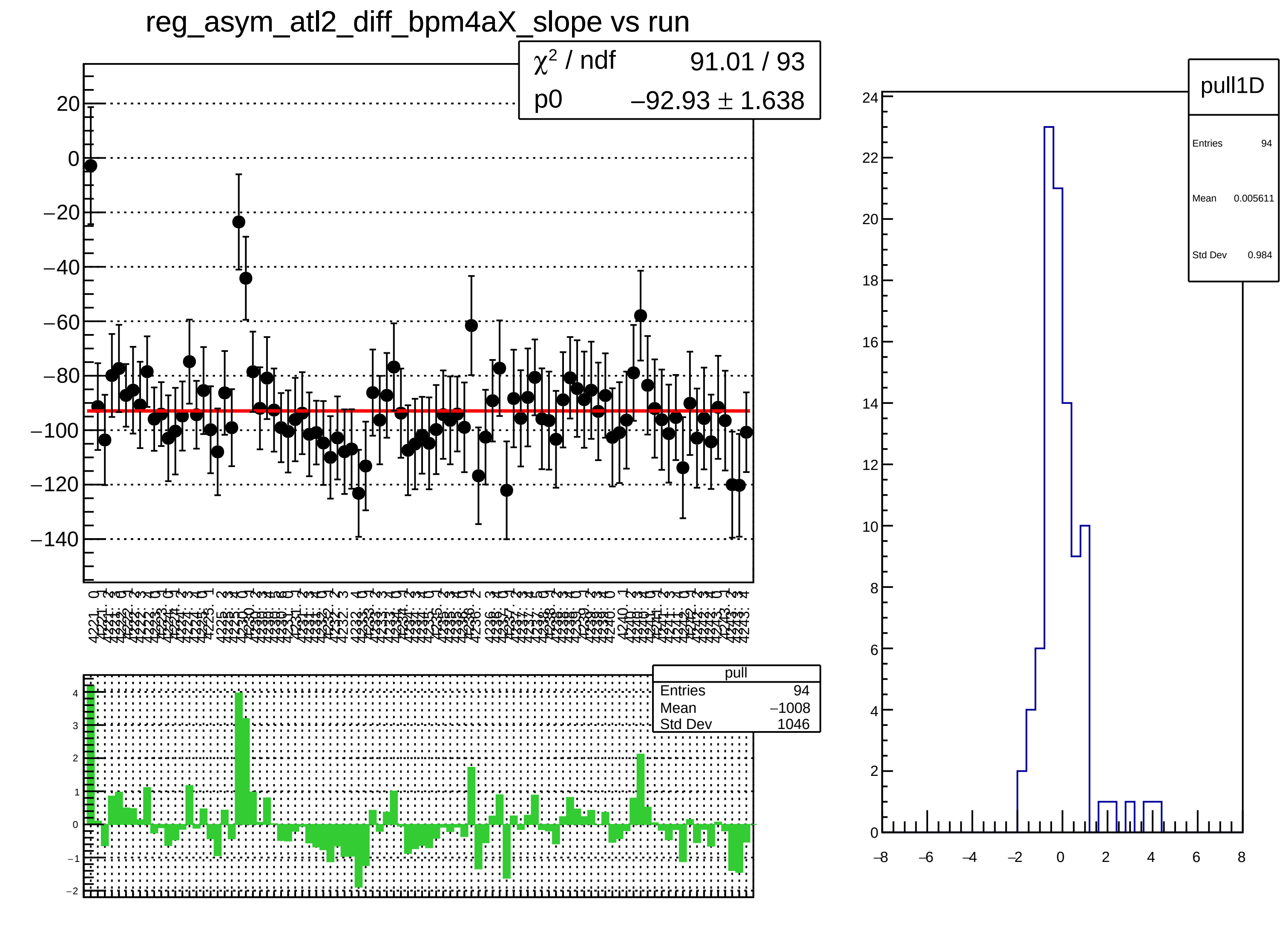
reg_asym_atr2_diff_bpm4eX_slope vs run
χ2 / ndf 46.99 / 93
p0 −99.04 ± 0.3733
−90
−95
−100
−105
−110
pull
Entries 94
Mean 373.6
Std Dev 326.4
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.04166
Std Dev 0.7058
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



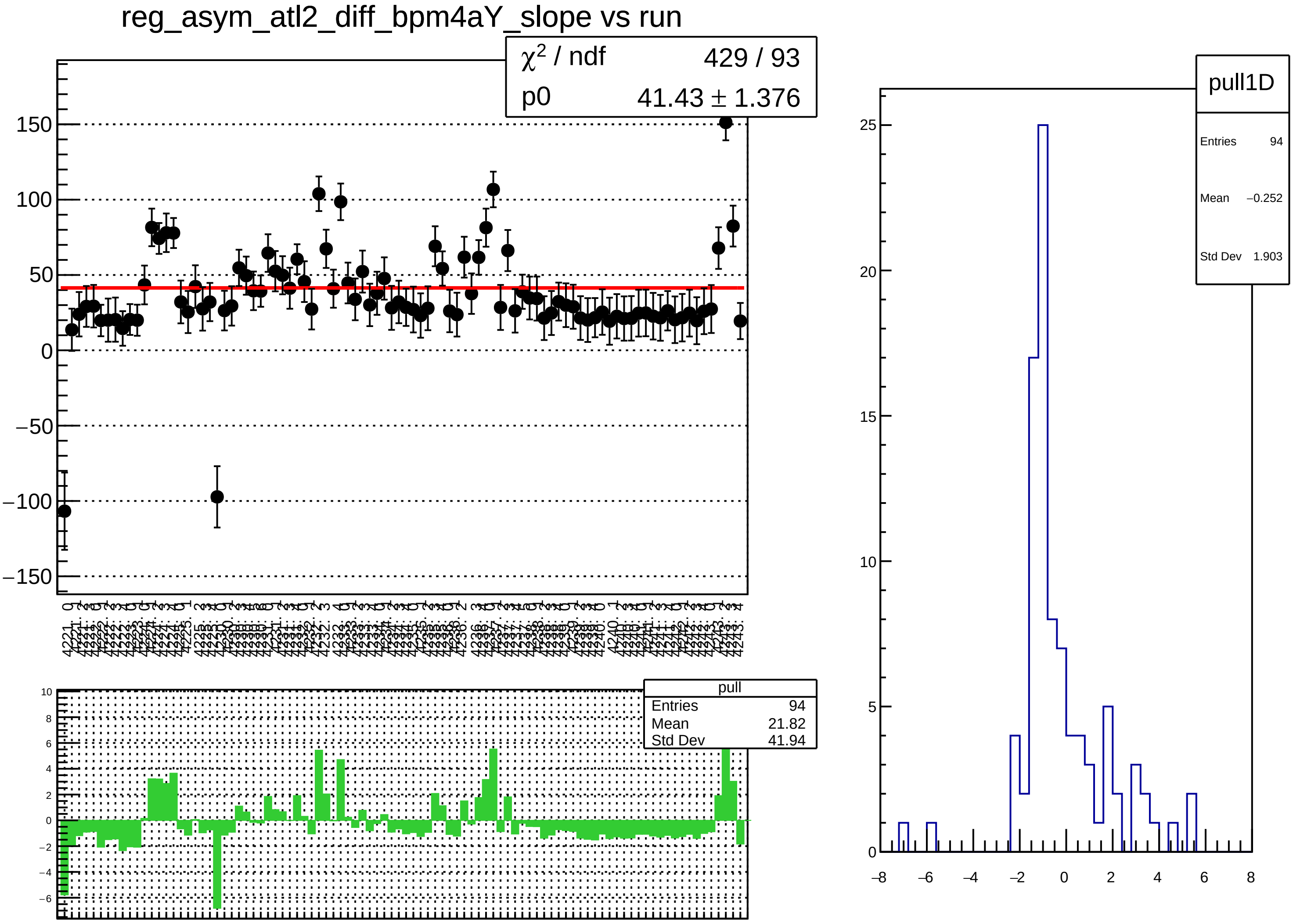
reg_asym_atr2_diff_bpm4eY_slope vs run
χ^2 / ndf 121.7 / 93
p0 37.4 ± 2.506
pull
Entries 94
Mean 58.35
Std Dev 52.1
pull1D
Entries 94
Mean 0.06795
Std Dev 1.136



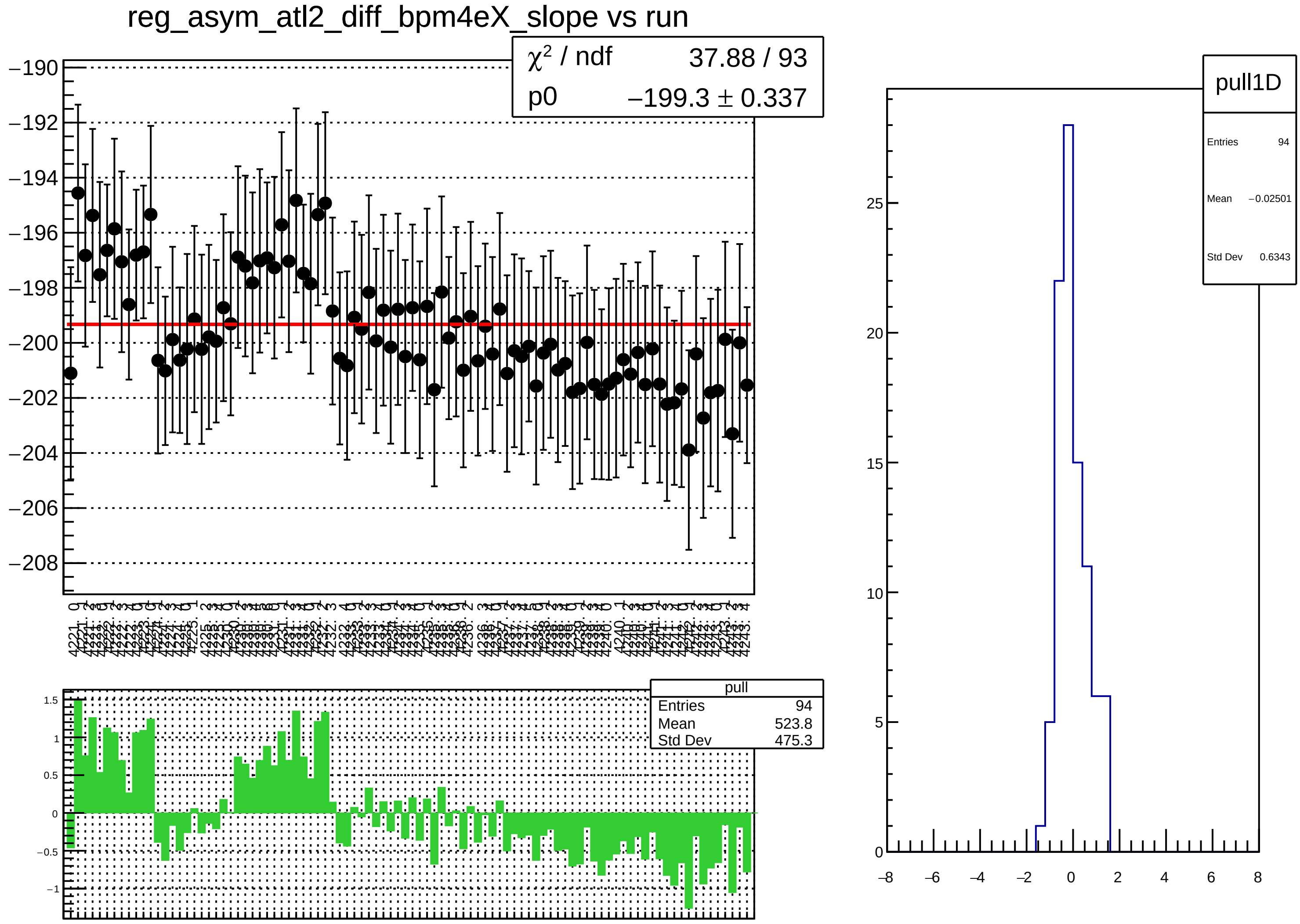
reg_asym_atr2_diff_bpm11X_slope vs run
χ^2 / ndf 133.2 / 93
p0 −435.5 ± 0.4788
pull
Entries 94
Mean 6831
Std Dev 6786
pull1D
Entries 94
Mean −0.002581
Std Dev 1.191



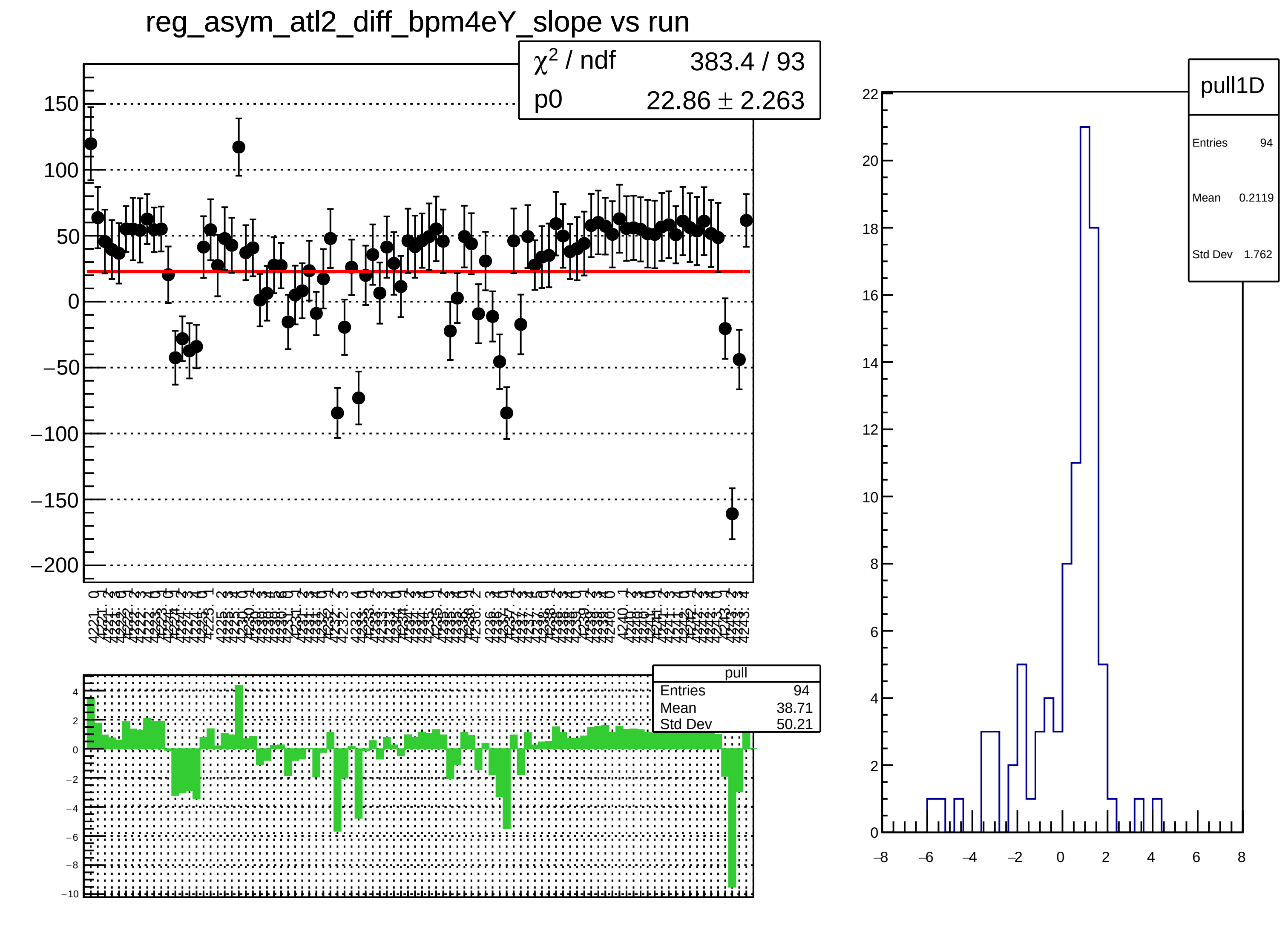
reg_asym_atl2_diff_bpm4aX_slope vs run
χ^2 / ndf 91.01 / 93
p0 −92.93 ± 1.638
20
0
−20
−40
−60
−80
−100
−120
−140
pull
Entries 94
Mean −1008
Std Dev 1046
4
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.005611
Std Dev 0.984
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



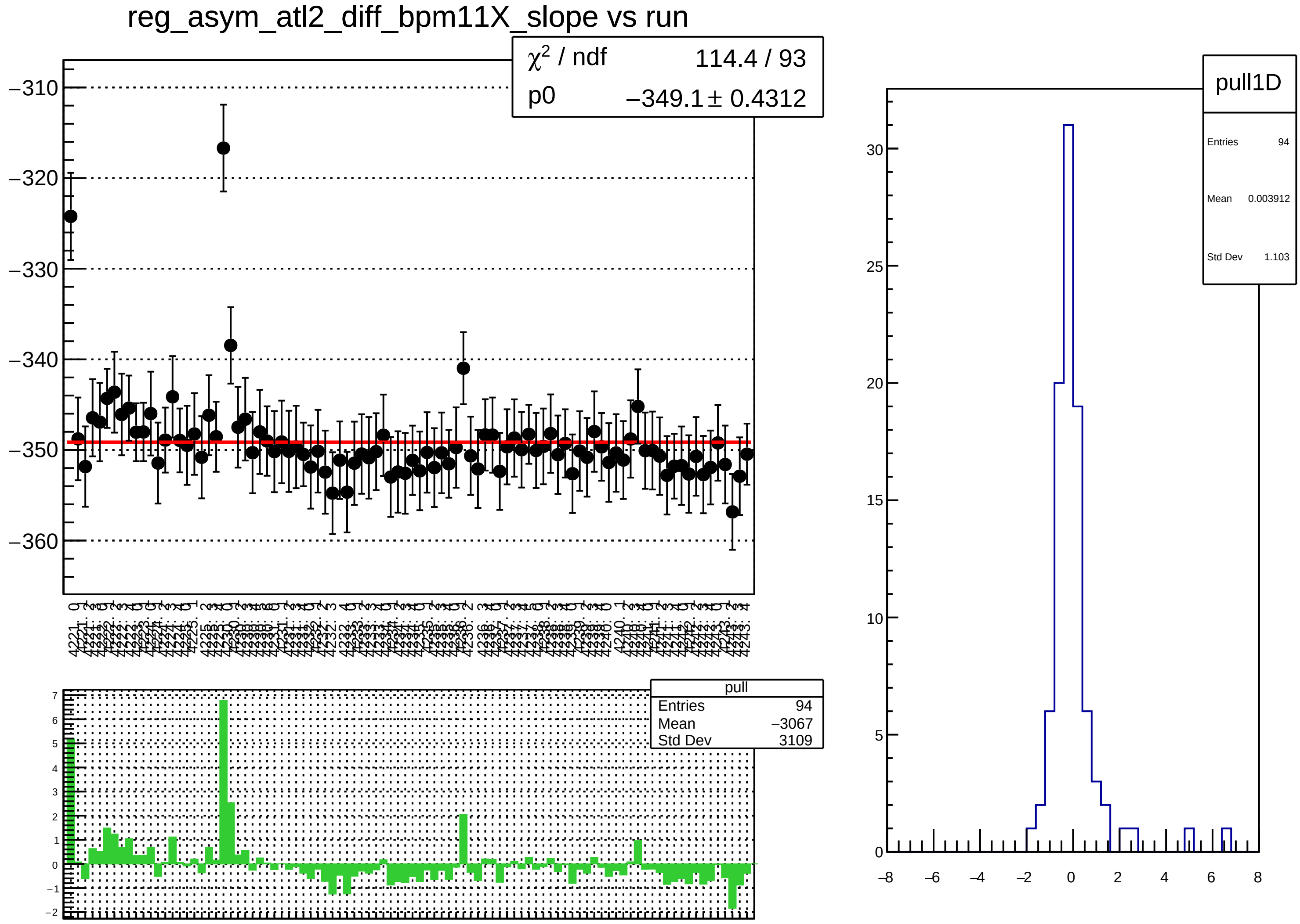
reg_asym_atl2_diff_bpm4aY_slope vs run
χ^2 / ndf 429 / 93
p0 41.43 ± 1.376
pull
Entries 94
Mean 21.82
Std Dev 41.94
pull1D
Entries 94
Mean −0.252
Std Dev 1.903



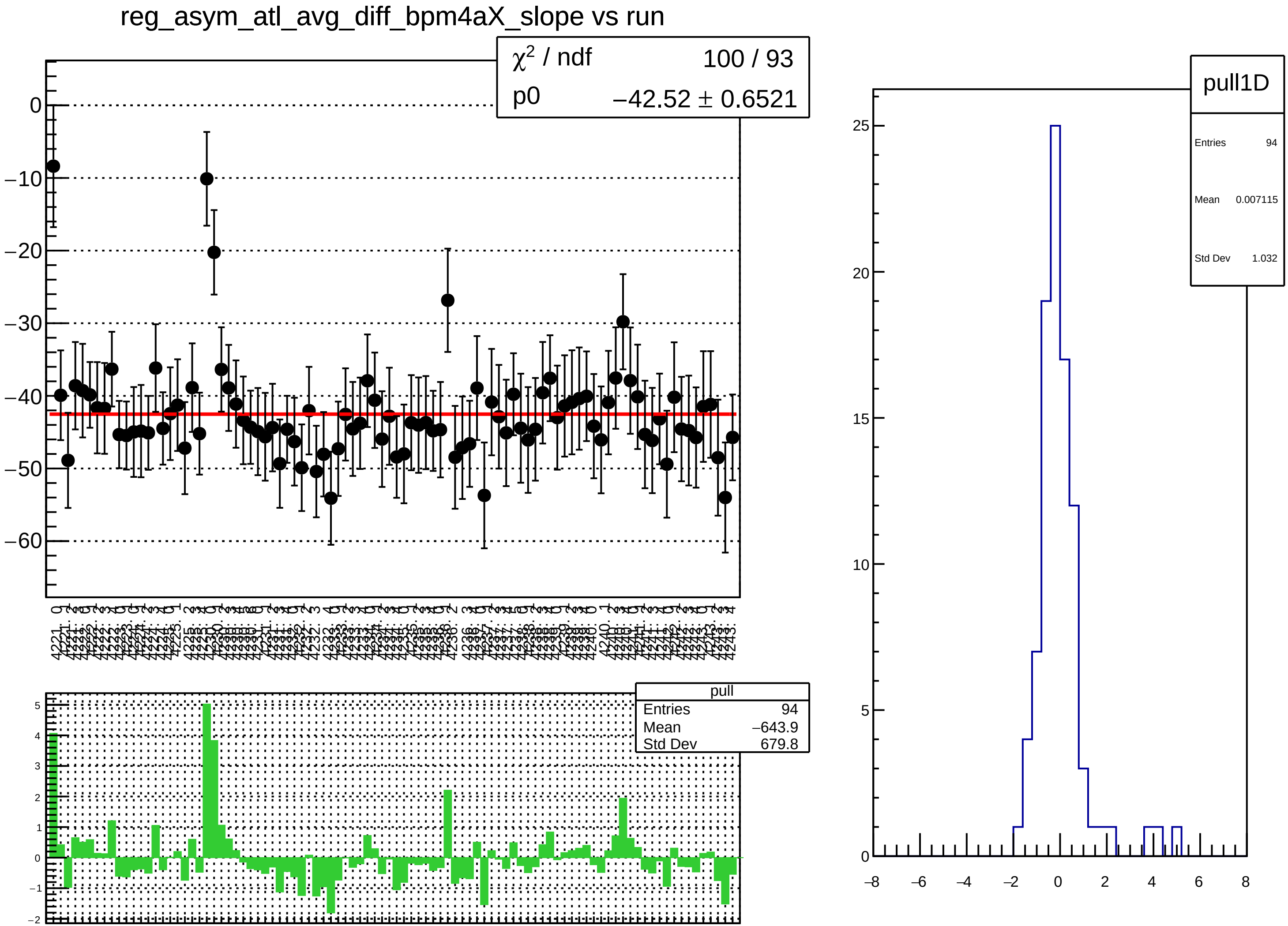
reg_asym_atl2_diff_bpm4eX_slope vs run
χ2 / ndf 37.88 / 93
p0 −199.3 ± 0.337
pull1D
Entries 94
Mean −0.02501
Std Dev 0.6343
pull
Entries 94
Mean 523.8
Std Dev 475.3

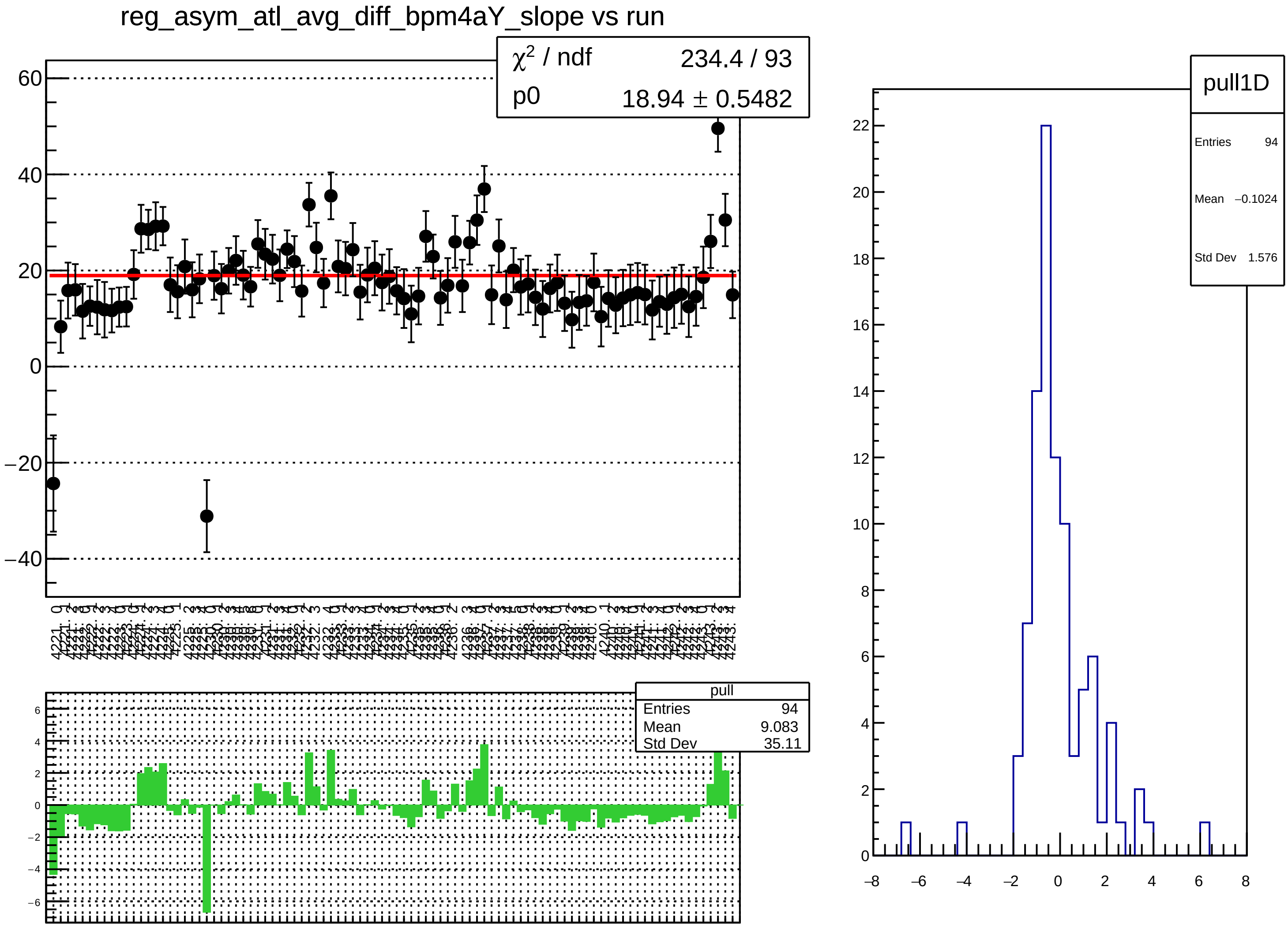


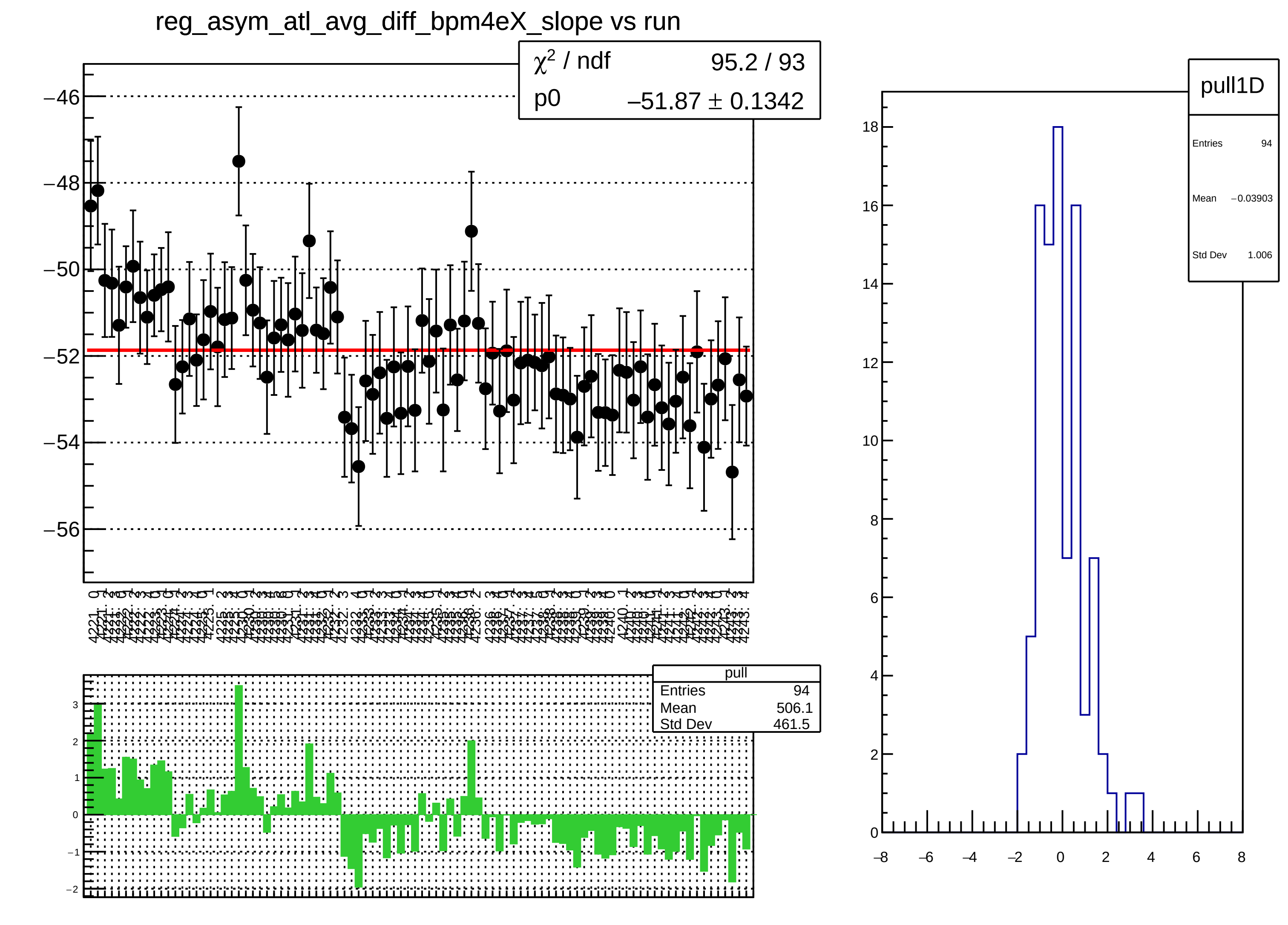
reg_asym_atl2_diff_bpm4eY_slope vs run
χ2 / ndf 383.4 / 93
p0 22.86 ± 2.263
pull
Entries 94
Mean 38.71
Std Dev 50.21
pull1D
Entries 94
Mean 0.2119
Std Dev 1.762



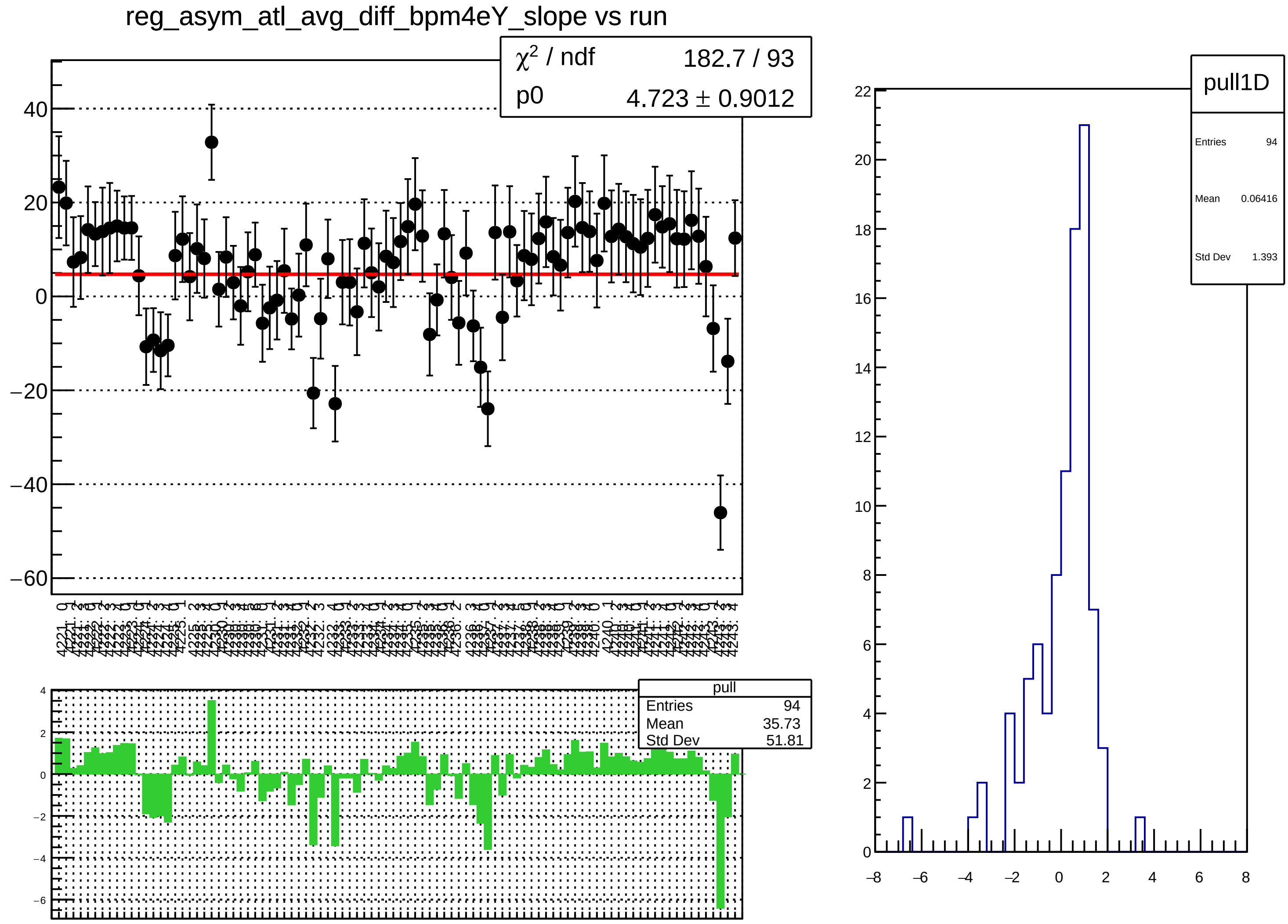
reg_asym_atl2_diff_bpm11X_slope vs run
χ2 / ndf 114.4 / 93
p0 −349.1 ± 0.4312
pull
Entries 94
Mean −3067
Std Dev 3109
pull1D
Entries 94
Mean 0.003912
Std Dev 1.103

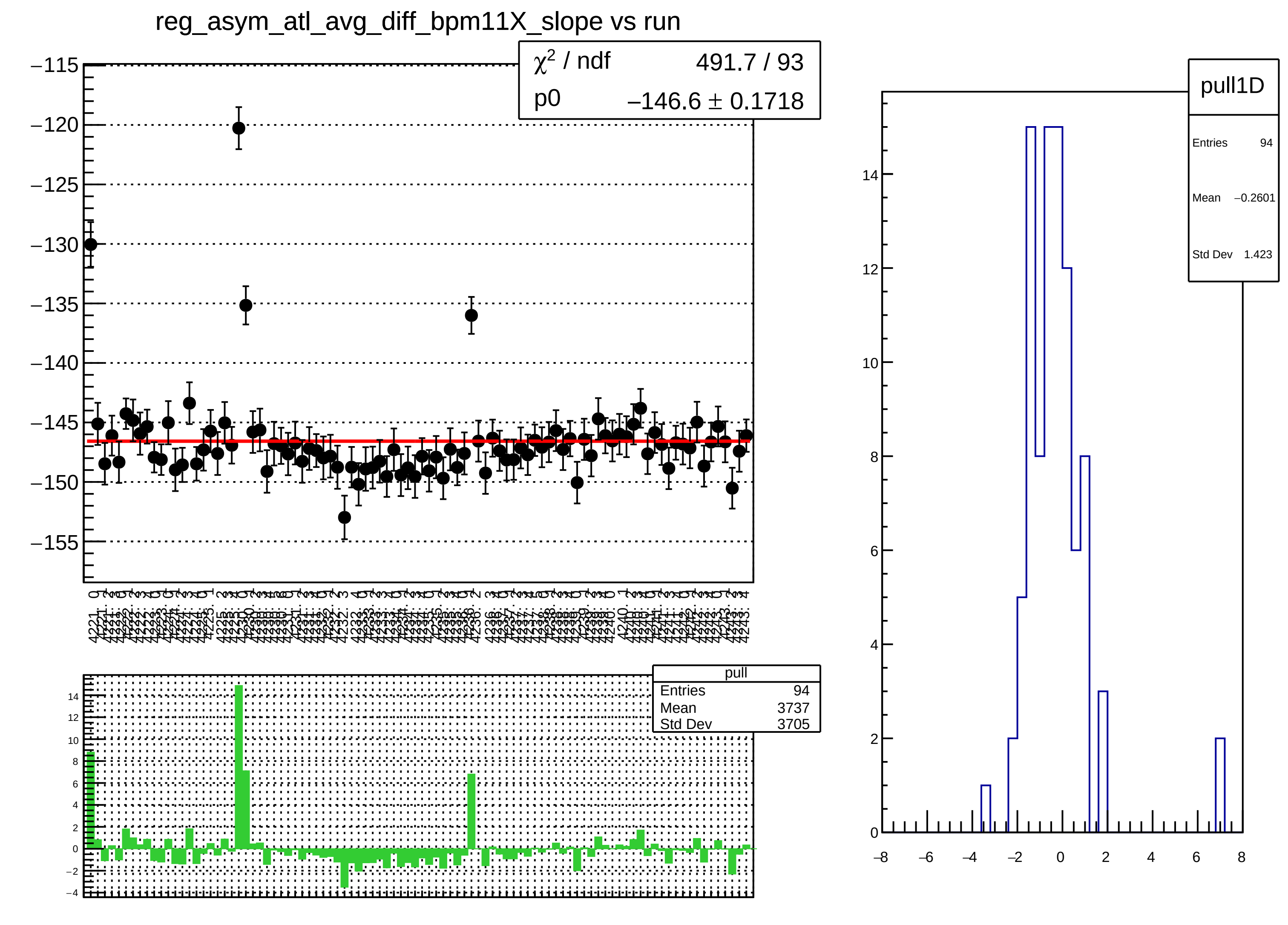

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 100 / 93
p0 −42.52 ± 0.6521
pull
Entries 94
Mean −643.9
Std Dev 679.8
pull1D
Entries 94
Mean 0.007115
Std Dev 1.032


reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 234.4 / 93
p0 18.94 ± 0.5482
pull
Entries 94
Mean 9.083
Std Dev 35.11
pull1D
Entries 94
Mean −0.1024
Std Dev 1.576

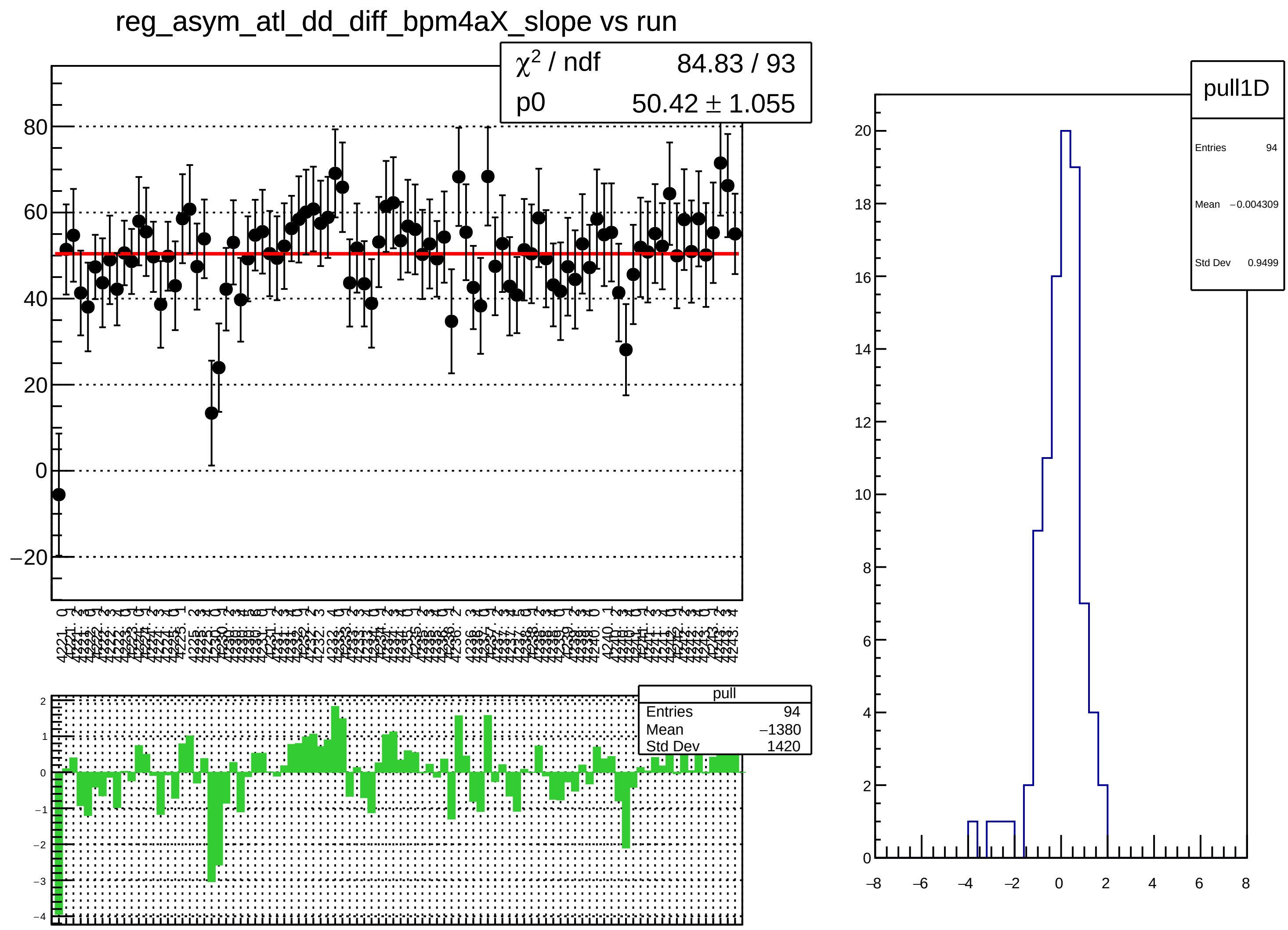


reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 95.2 / 93
p0 −51.87 ± 0.1342
pull
Entries 94
Mean 506.1
Std Dev 461.5
pull1D
Entries 94
Mean −0.03903
Std Dev 1.006


reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ2 / ndf 182.7 / 93
p0 4.723 ± 0.9012
pull
Entries 94
Mean 35.73
Std Dev 51.81
pull1D
Entries 94
Mean 0.06416
Std Dev 1.393

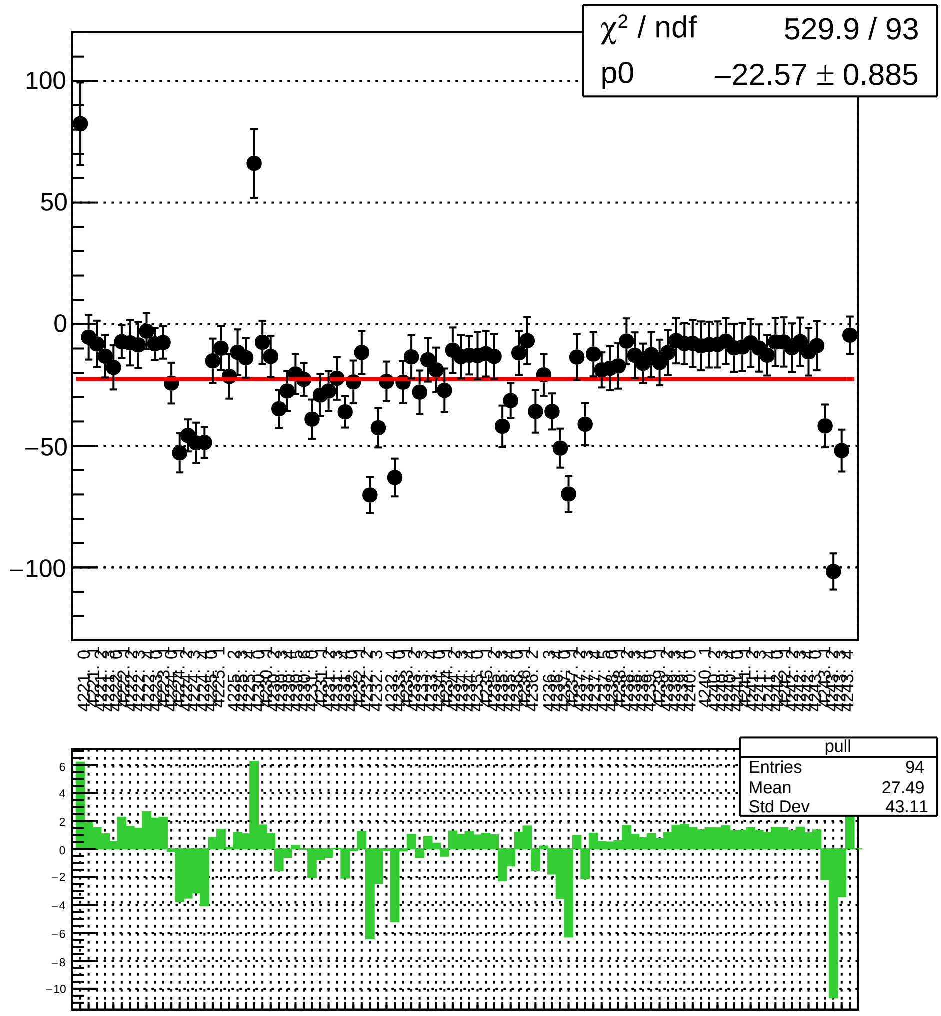


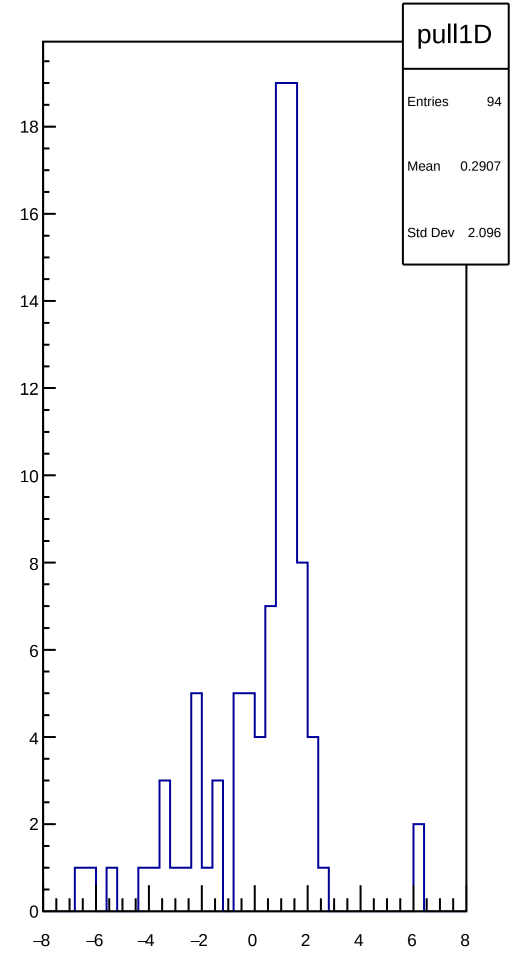
reg_asym_atl_avg_diff_bpm11X_slope vs run
χ^2 / ndf 491.7 / 93
p0 −146.6 ± 0.1718
pull
Entries 94
Mean 3737
Std Dev 3705
pull1D
Entries 94
Mean −0.2601
Std Dev 1.423

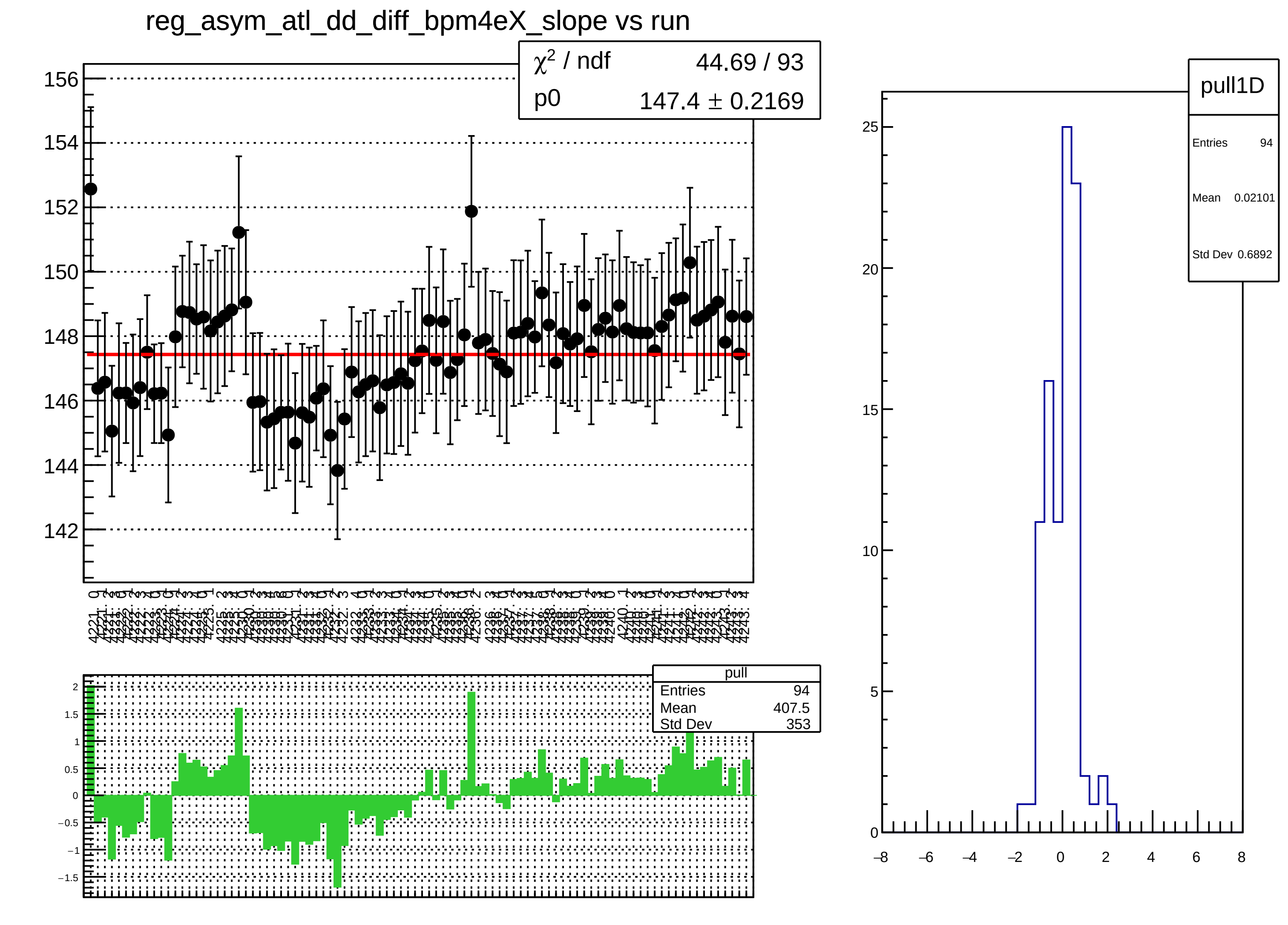


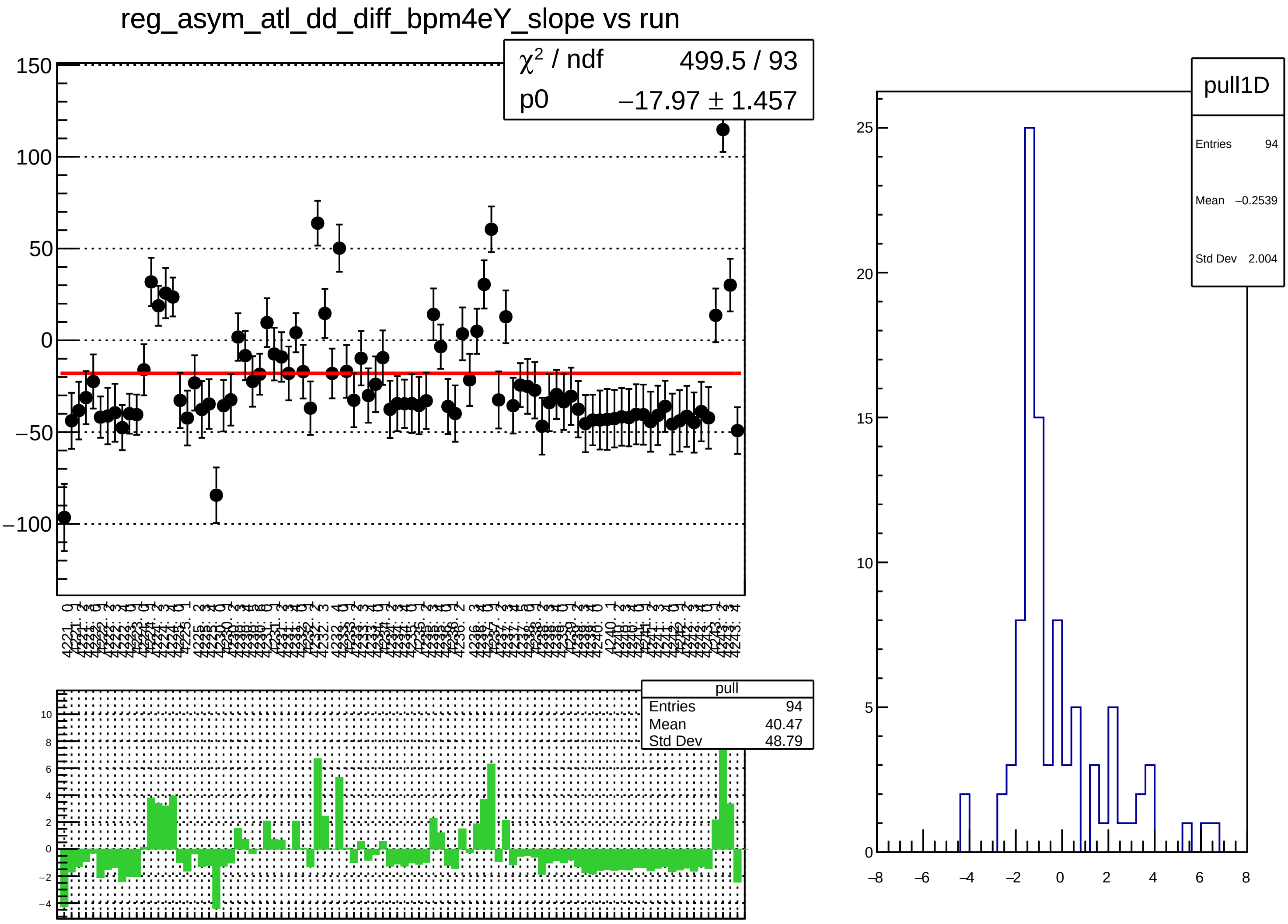
reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 84.83 / 93
p0 50.42 ± 1.055
pull
Entries 94
Mean −1380
Std Dev 1420
pull1D
Entries 94
Mean −0.004309
Std Dev 0.9499

reg_asym_atl_dd_diff_bpm4aY_slope vs run

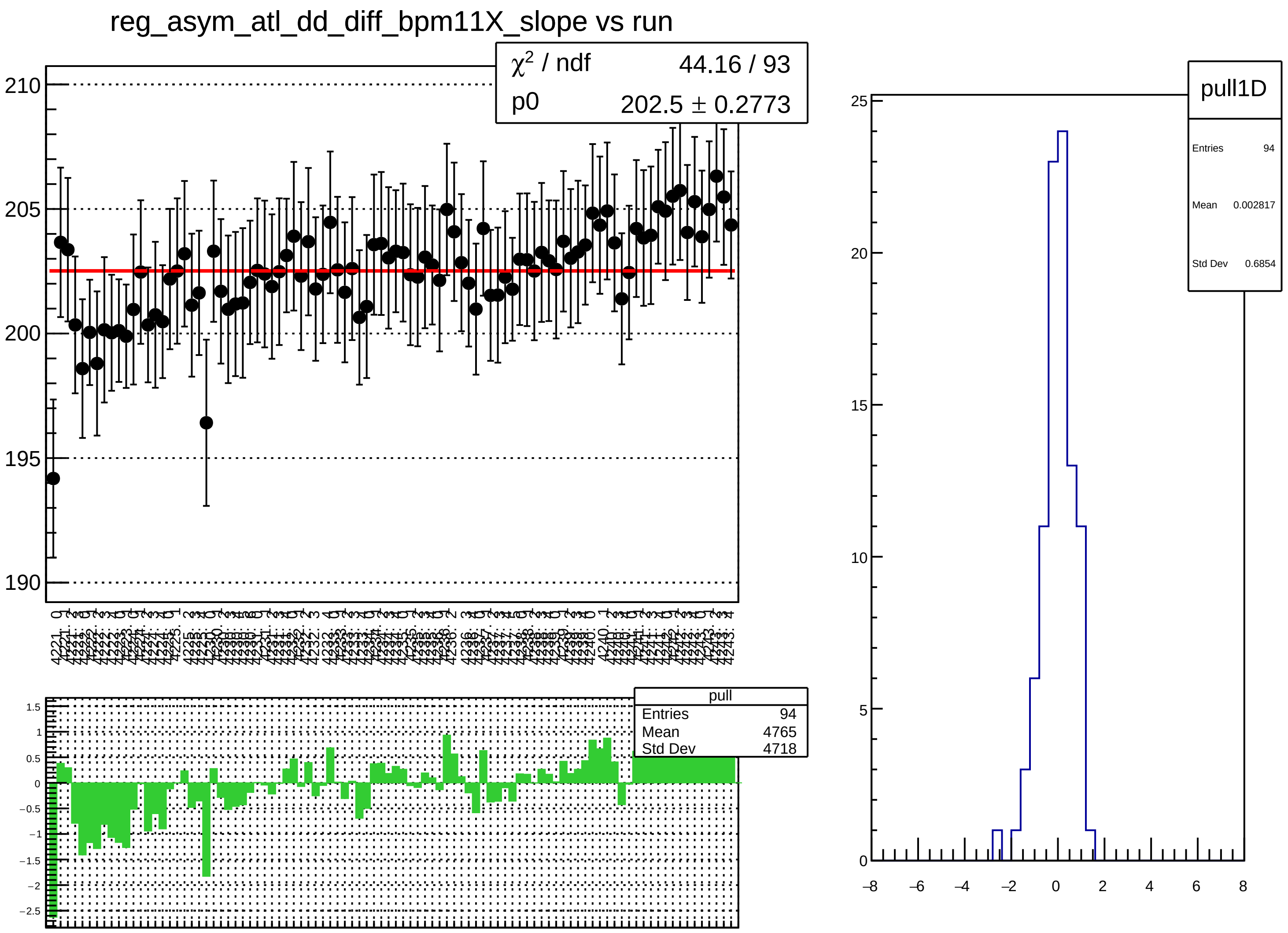




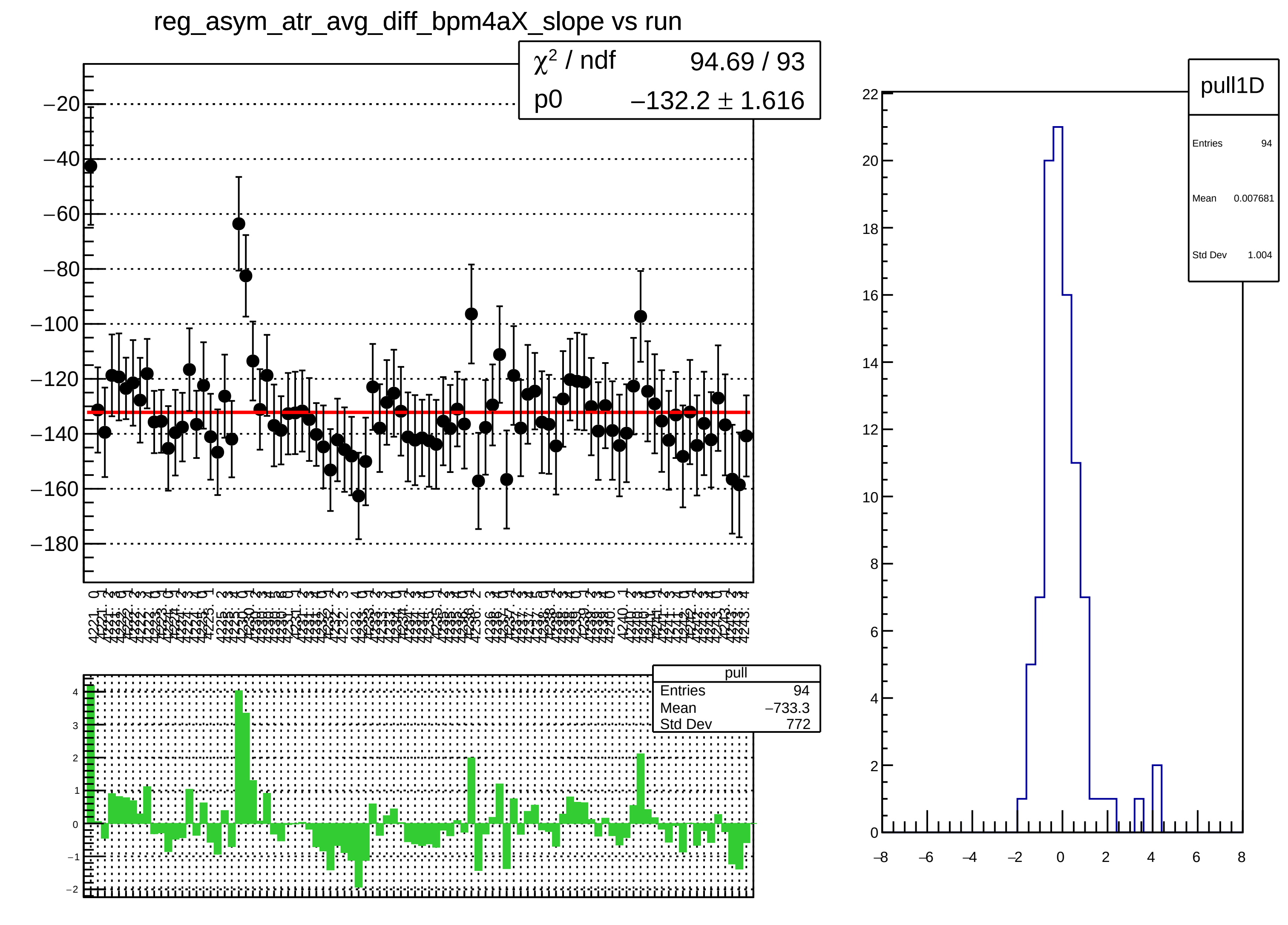

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ2 / ndf 44.69 / 93
p0 147.4 ± 0.2169
pull
Entries 94
Mean 407.5
Std Dev 353
pull1D
Entries 94
Mean 0.02101
Std Dev 0.6892



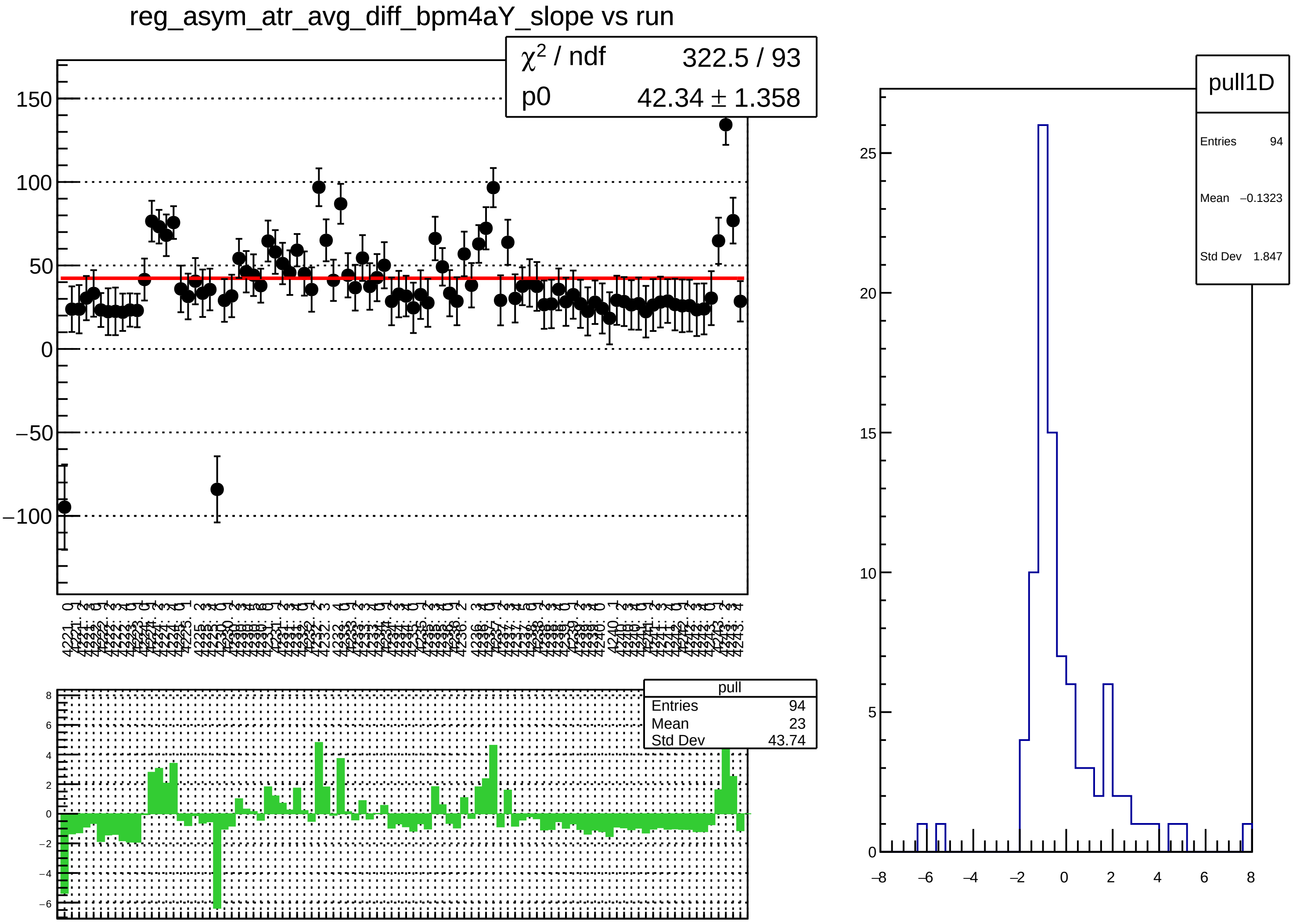
reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 499.5 / 93
p0 −17.97 ± 1.457
pull
Entries 94
Mean 40.47
Std Dev 48.79
pull1D
Entries 94
Mean −0.2539
Std Dev 2.004



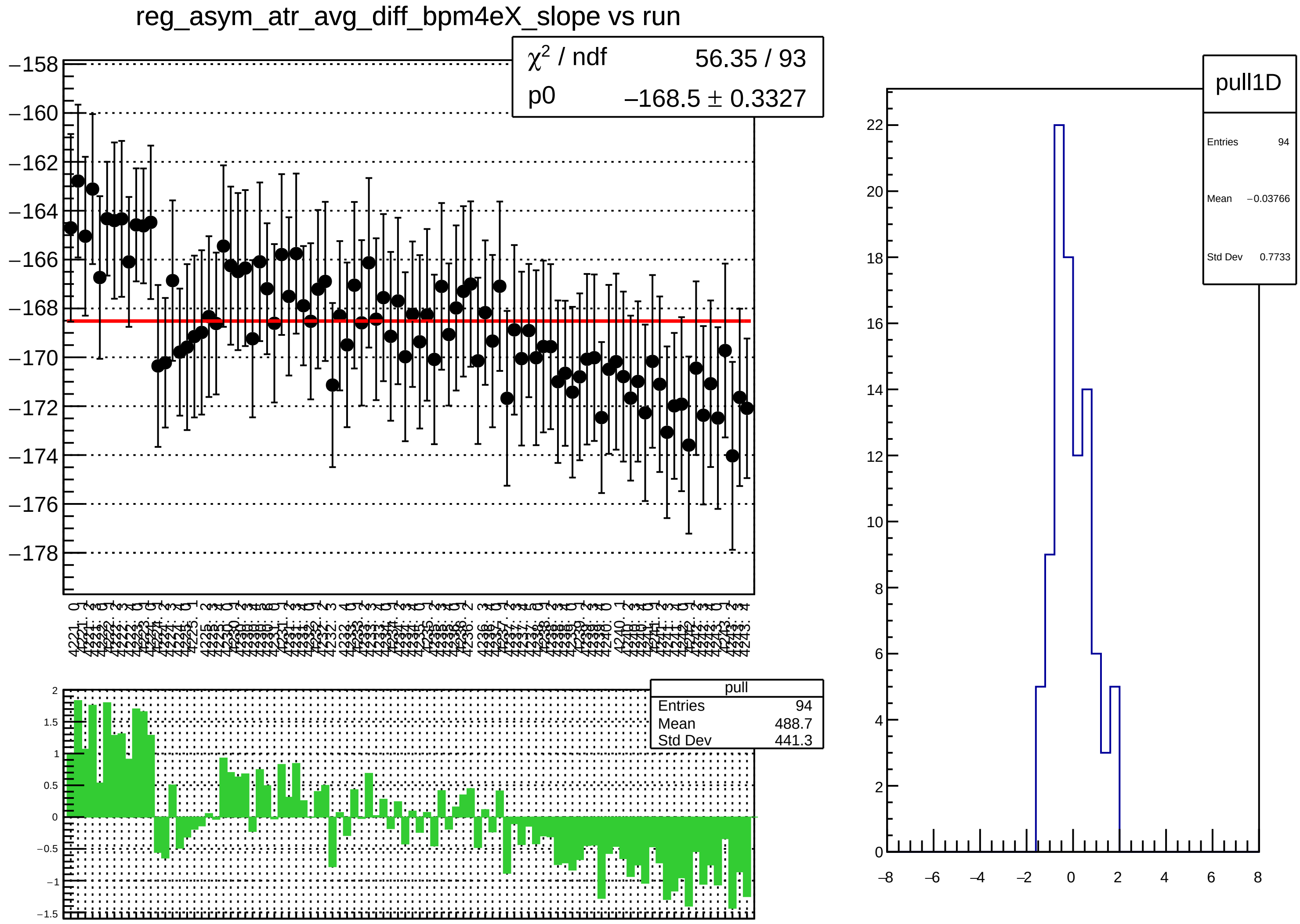
reg_asym_atl_dd_diff_bpm11X_slope vs run
χ2 / ndf 44.16 / 93
p0 202.5 ± 0.2773
pull
Entries 94
Mean 4765
Std Dev 4718
pull1D
Entries 94
Mean 0.002817
Std Dev 0.6854



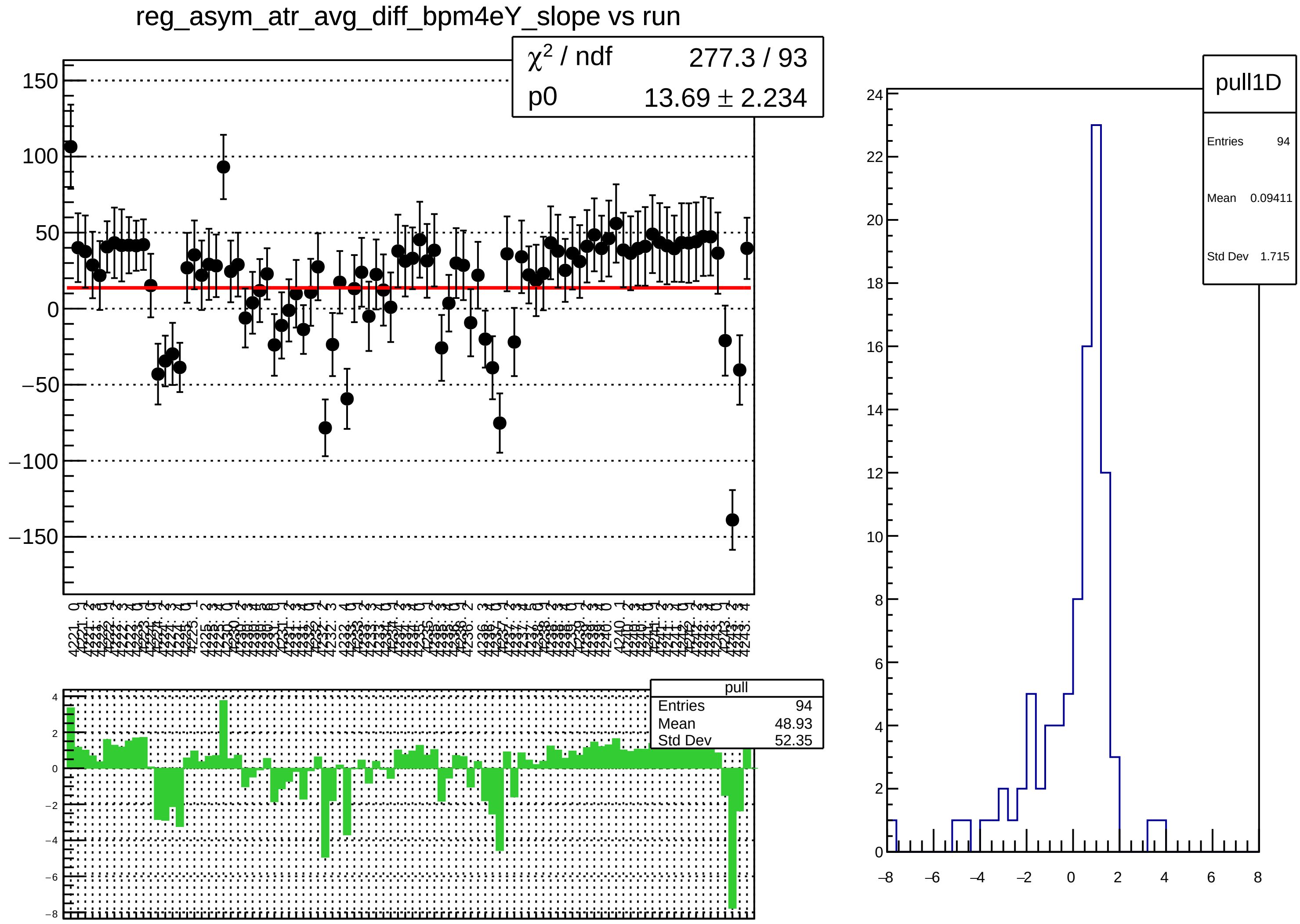
reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ2 / ndf 94.69 / 93
p0 −132.2 ± 1.616
pull
Entries 94
Mean −733.3
Std Dev 772
pull1D
Entries 94
Mean 0.007681
Std Dev 1.004



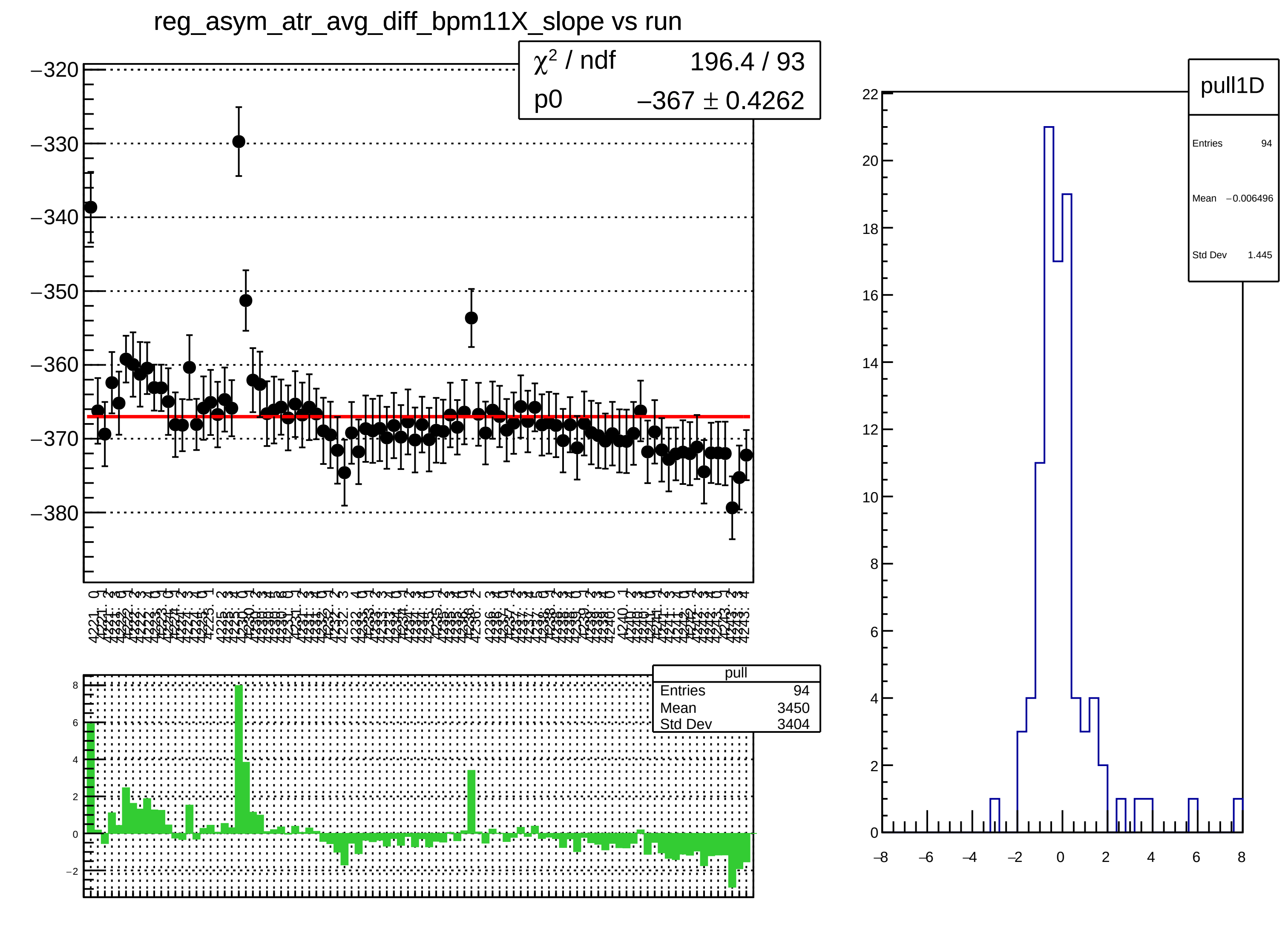
reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ2 / ndf 322.5 / 93
p0 42.34 ± 1.358
pull
Entries 94
Mean 23
Std Dev 43.74
pull1D
Entries 94
Mean −0.1323
Std Dev 1.847



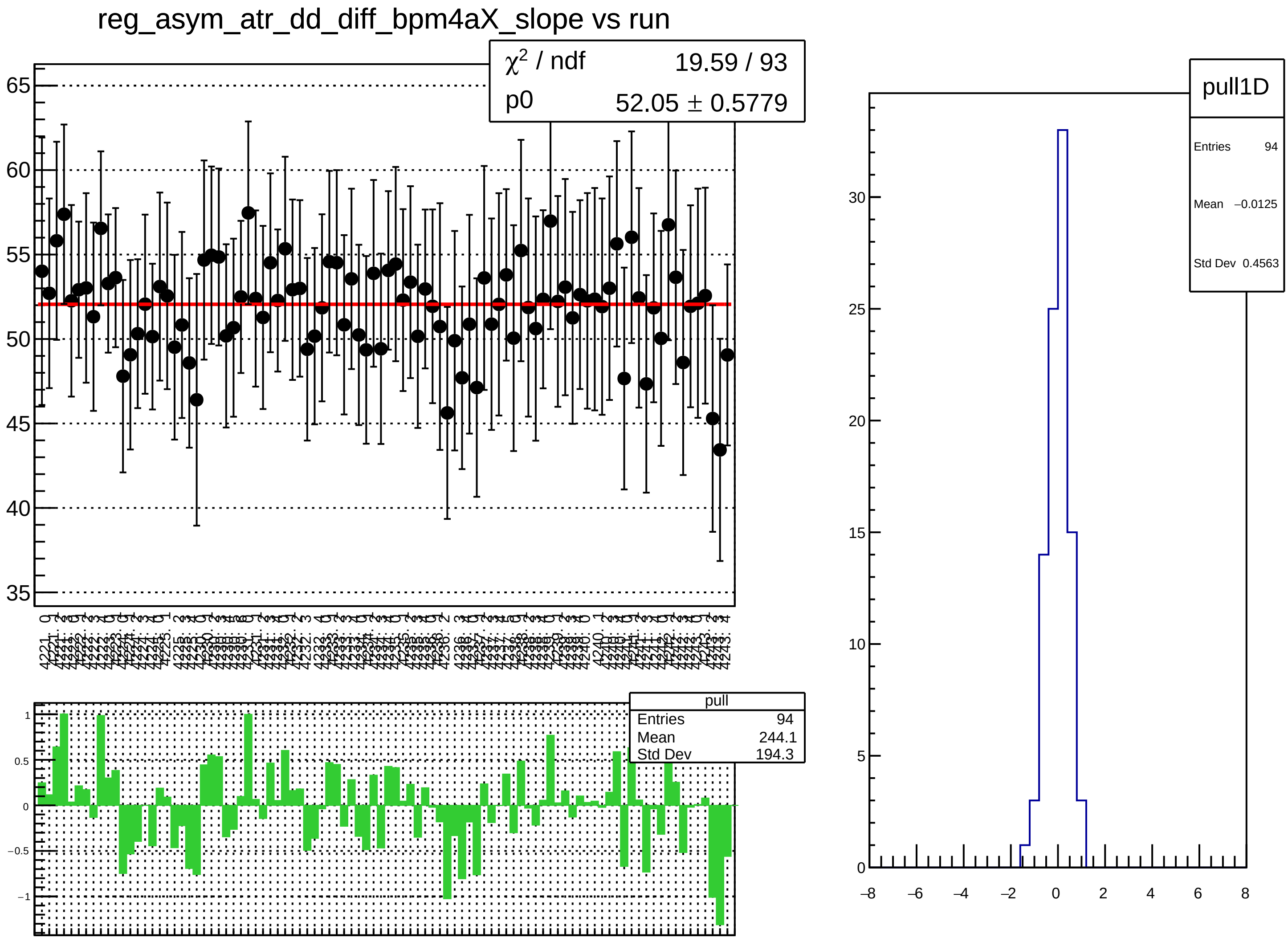
reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ2 / ndf 56.35 / 93
p0 −168.5 ± 0.3327
pull
Entries 94
Mean 488.7
Std Dev 441.3
pull1D
Entries 94
Mean −0.03766
Std Dev 0.7733



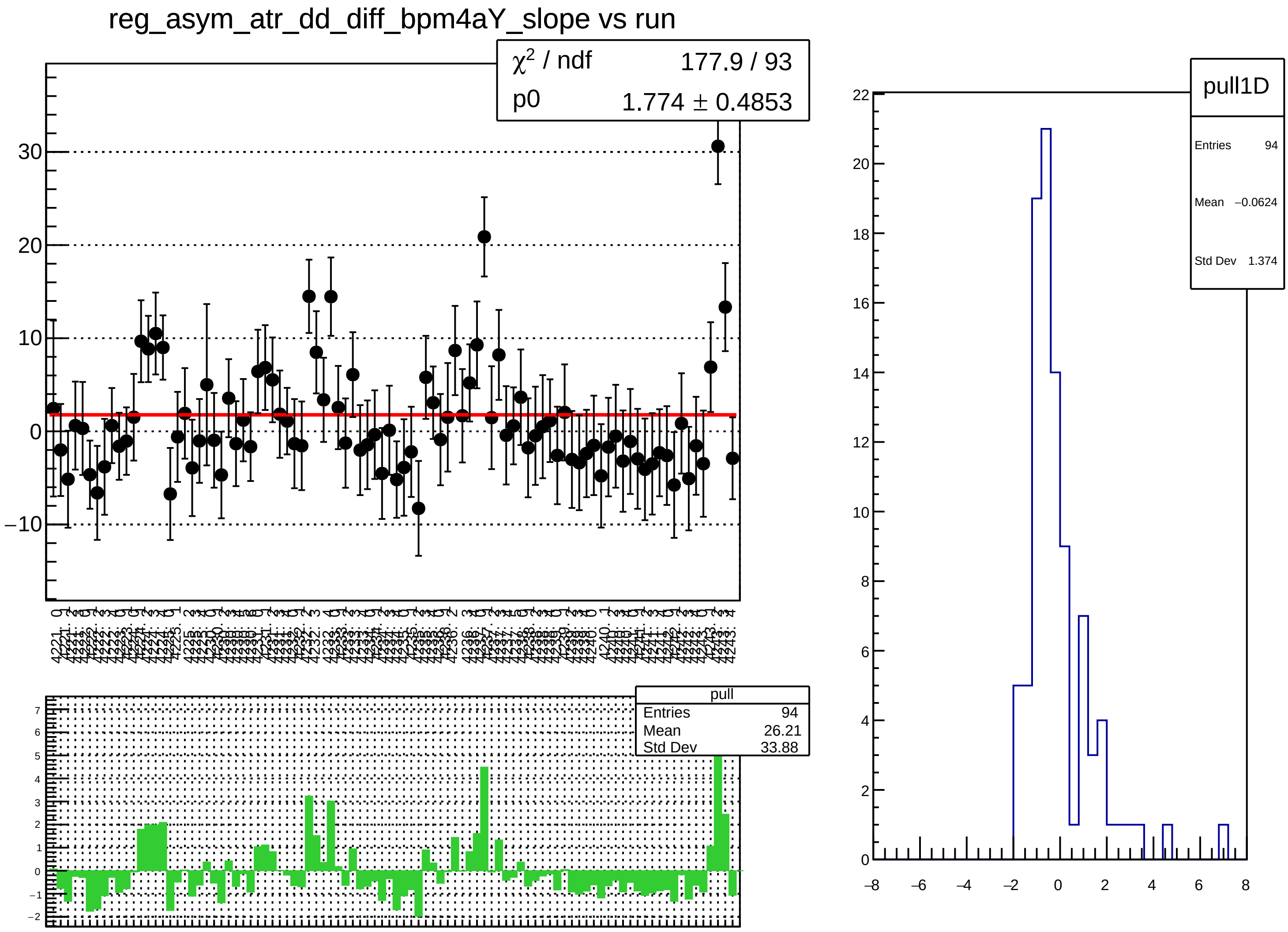
reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 277.3 / 93
p0 13.69 ± 2.234
pull
Entries 94
Mean 48.93
Std Dev 52.35
pull1D
Entries 94
Mean 0.09411
Std Dev 1.715

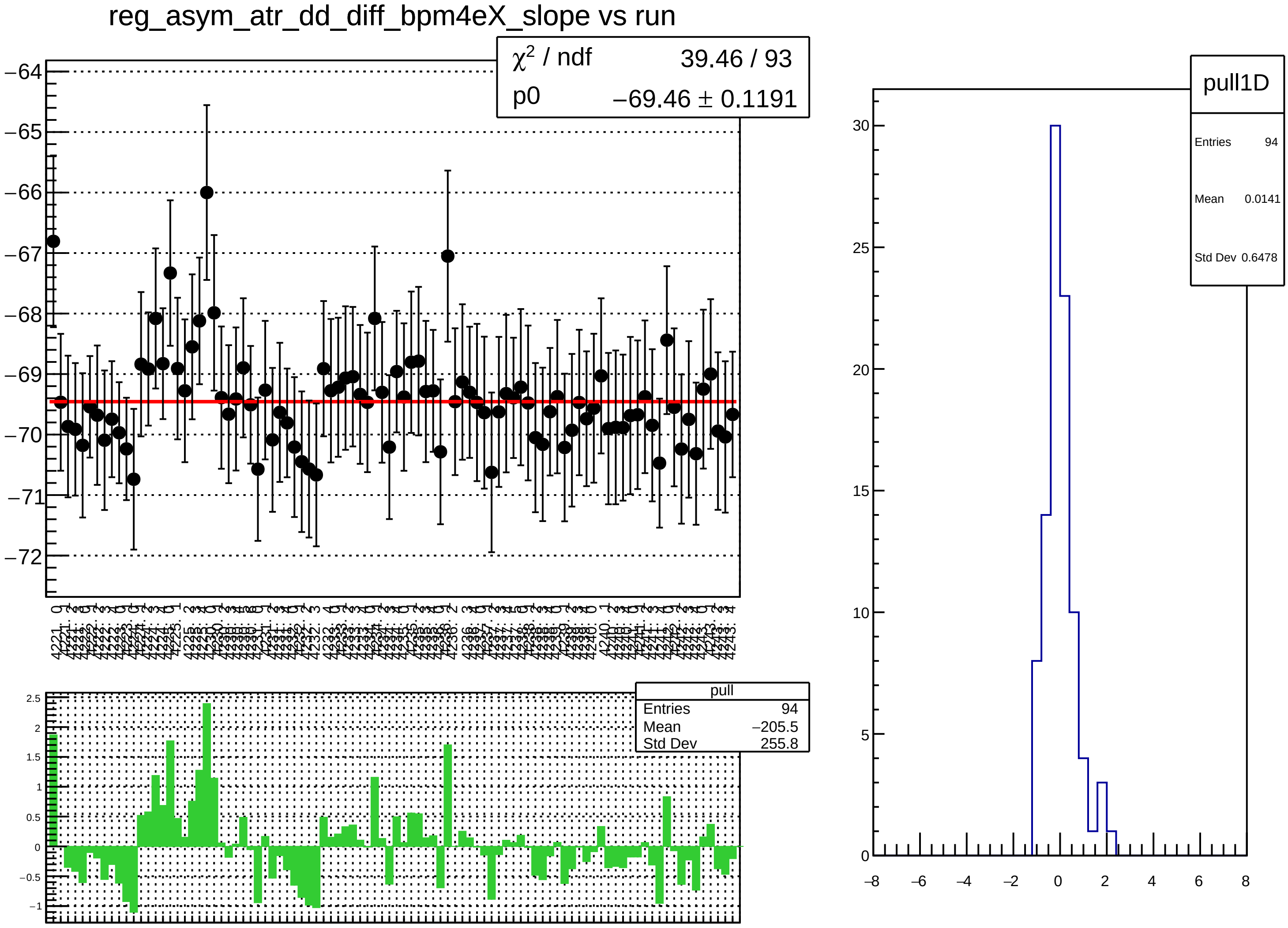


reg_asym_atr_avg_diff_bpm11X_slope vs run
χ2 / ndf 196.4 / 93
p0 −367 ± 0.4262
pull
Entries 94
Mean 3450
Std Dev 3404
pull1D
Entries 94
Mean −0.006496
Std Dev 1.445

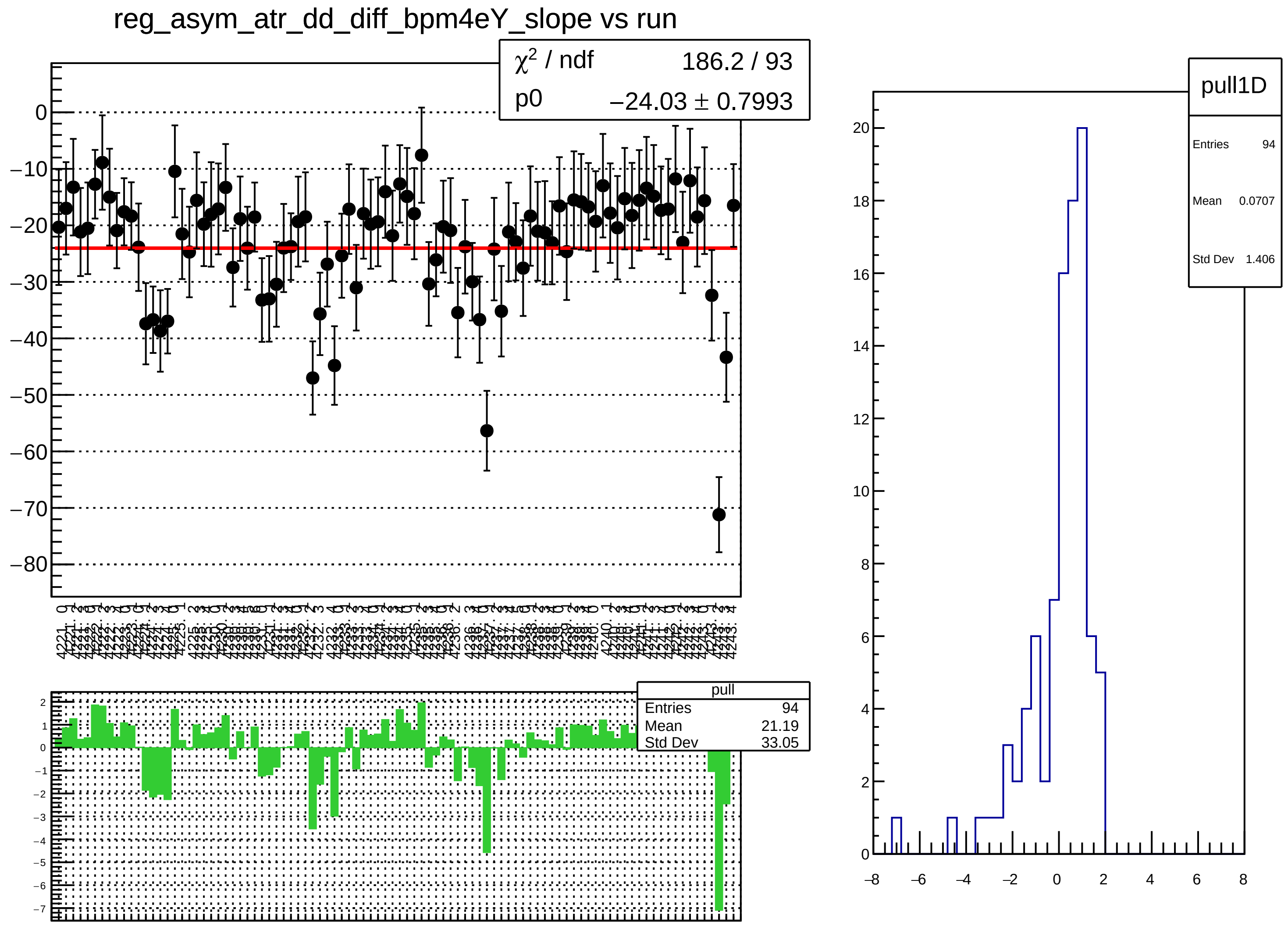


reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 19.59 / 93
p0 52.05 ± 0.5779
65
60
55
50
45
40
35
pull
Entries 94
Mean 244.1
Std Dev 194.3
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.0125
Std Dev 0.4563
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

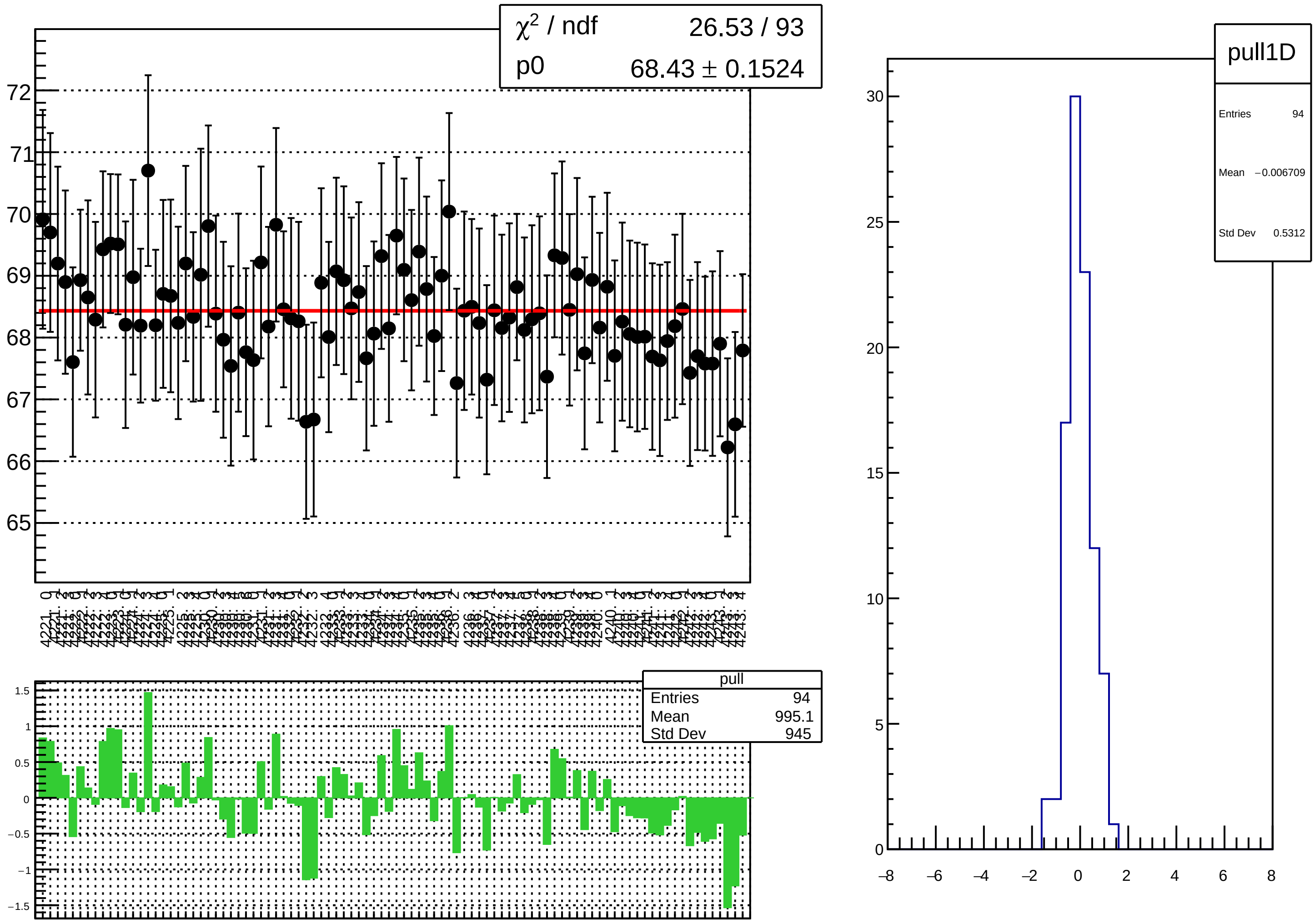

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 177.9 / 93
p0 1.774 ± 0.4853
pull
Entries 94
Mean 26.21
Std Dev 33.88
pull1D
Entries 94
Mean −0.0624
Std Dev 1.374

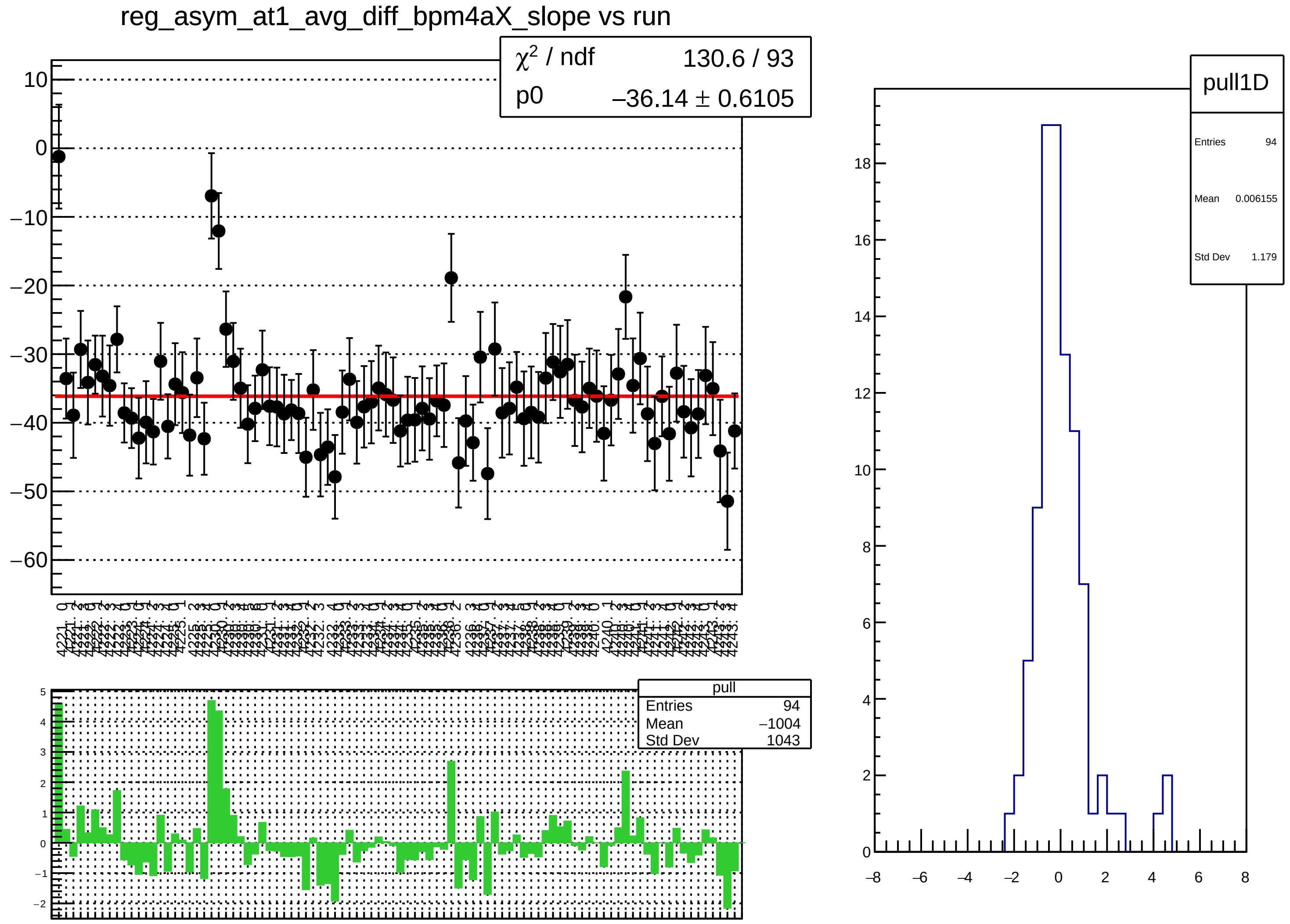


reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 39.46 / 93
p0 −69.46 ± 0.1191
pull
Entries 94
Mean −205.5
Std Dev 255.8
pull1D
Entries 94
Mean 0.0141
Std Dev 0.6478

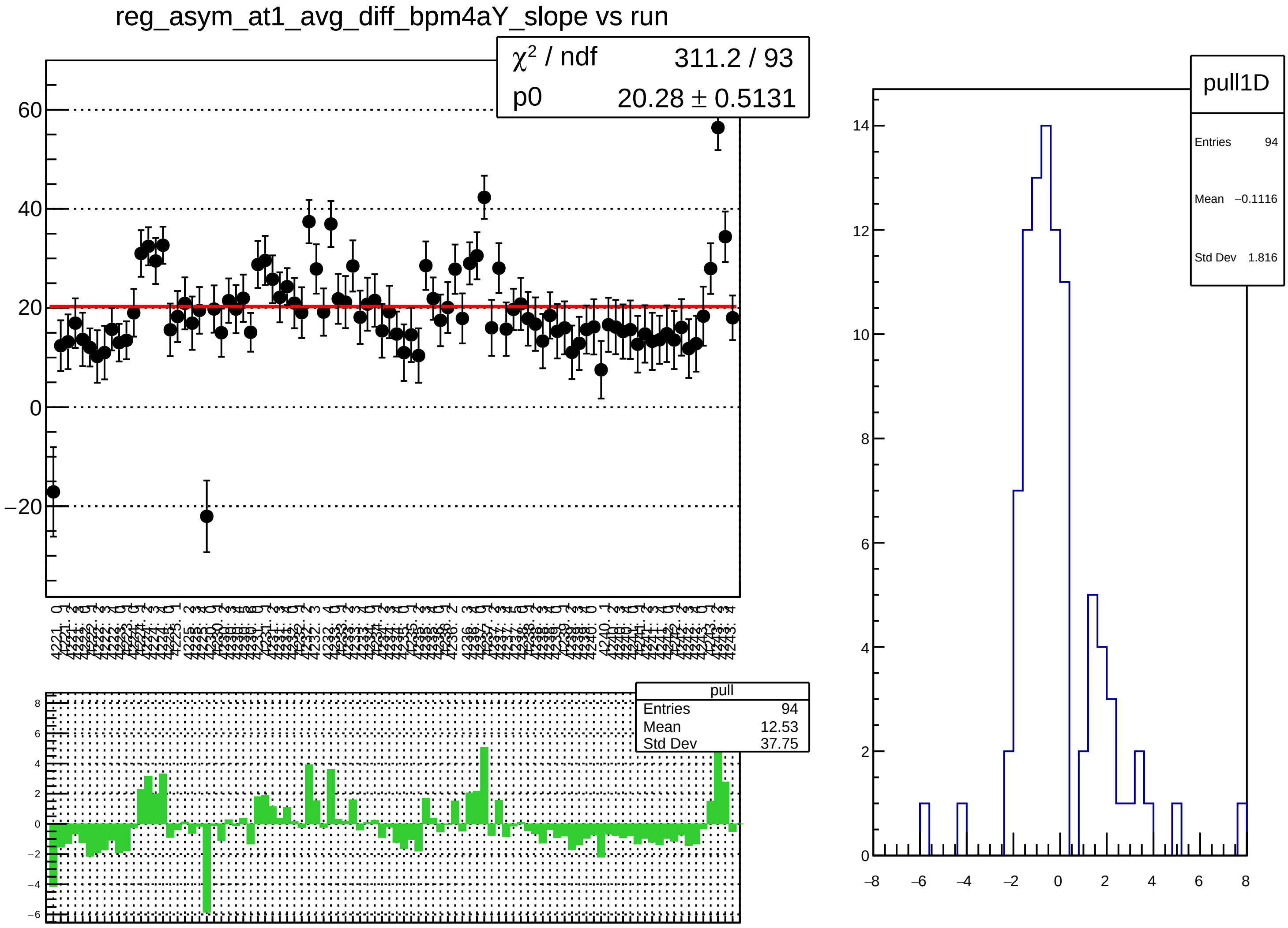

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ2 / ndf 186.2 / 93
p0 −24.03 ± 0.7993
0
−10
−20
−30
−40
−50
−60
−70
−80
pull
Entries 94
Mean 21.19
Std Dev 33.05
pull1D
Entries 94
Mean 0.0707
Std Dev 1.406

reg_asym_atr_dd_diff_bpm11X_slope vs run

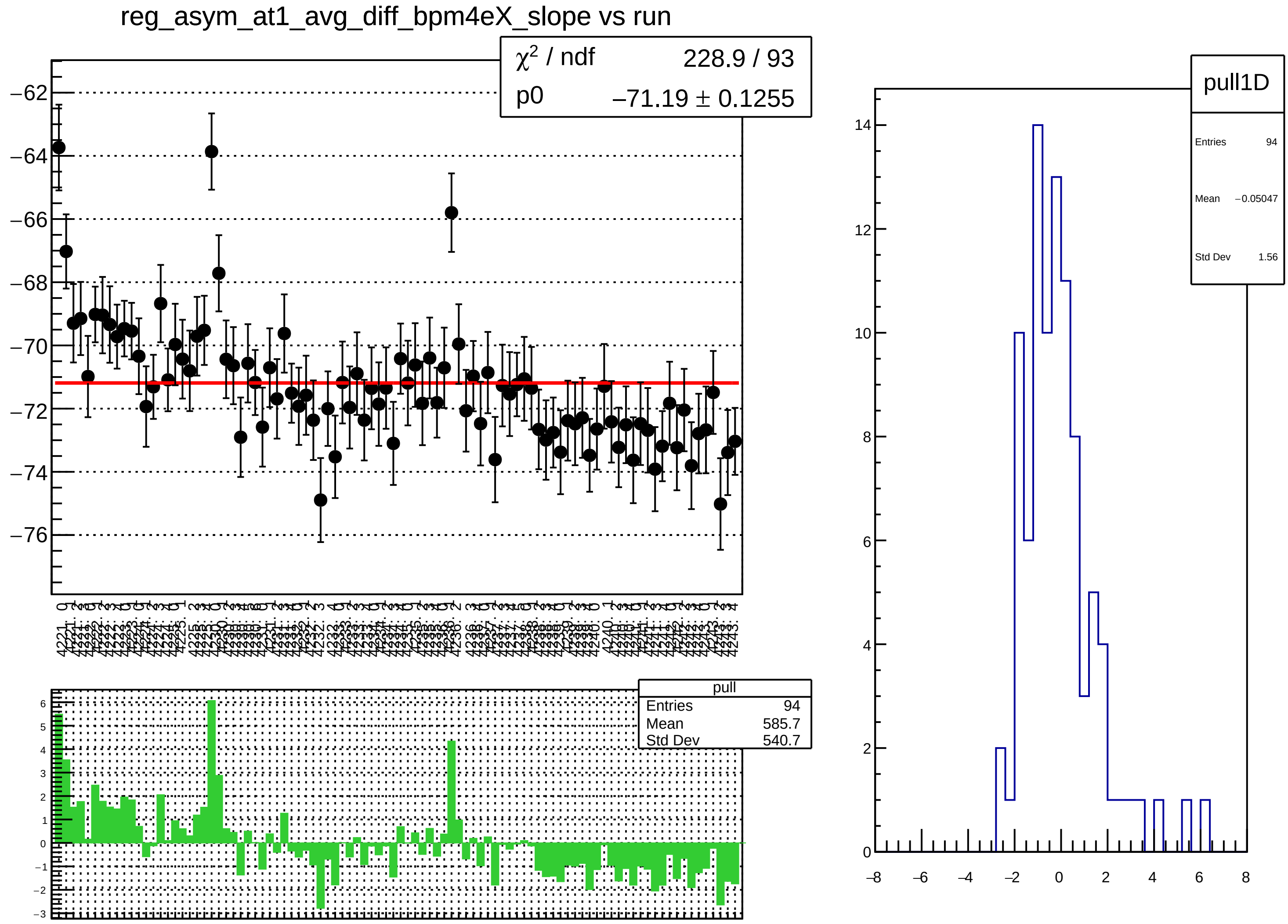




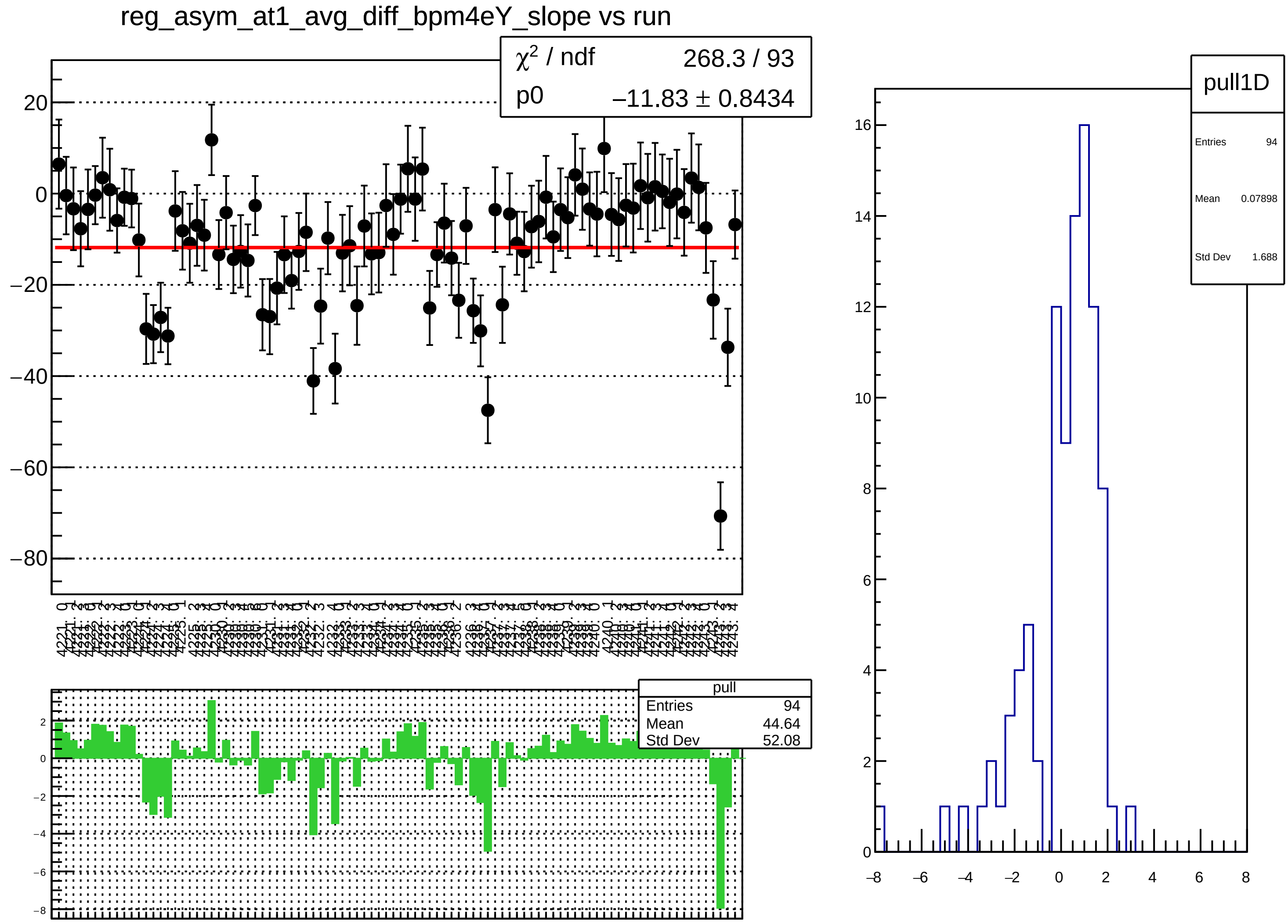
reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 130.6 / 93
p0 −36.14 ± 0.6105
pull
Entries 94
Mean −1004
Std Dev 1043
pull1D
Entries 94
Mean 0.006155
Std Dev 1.179

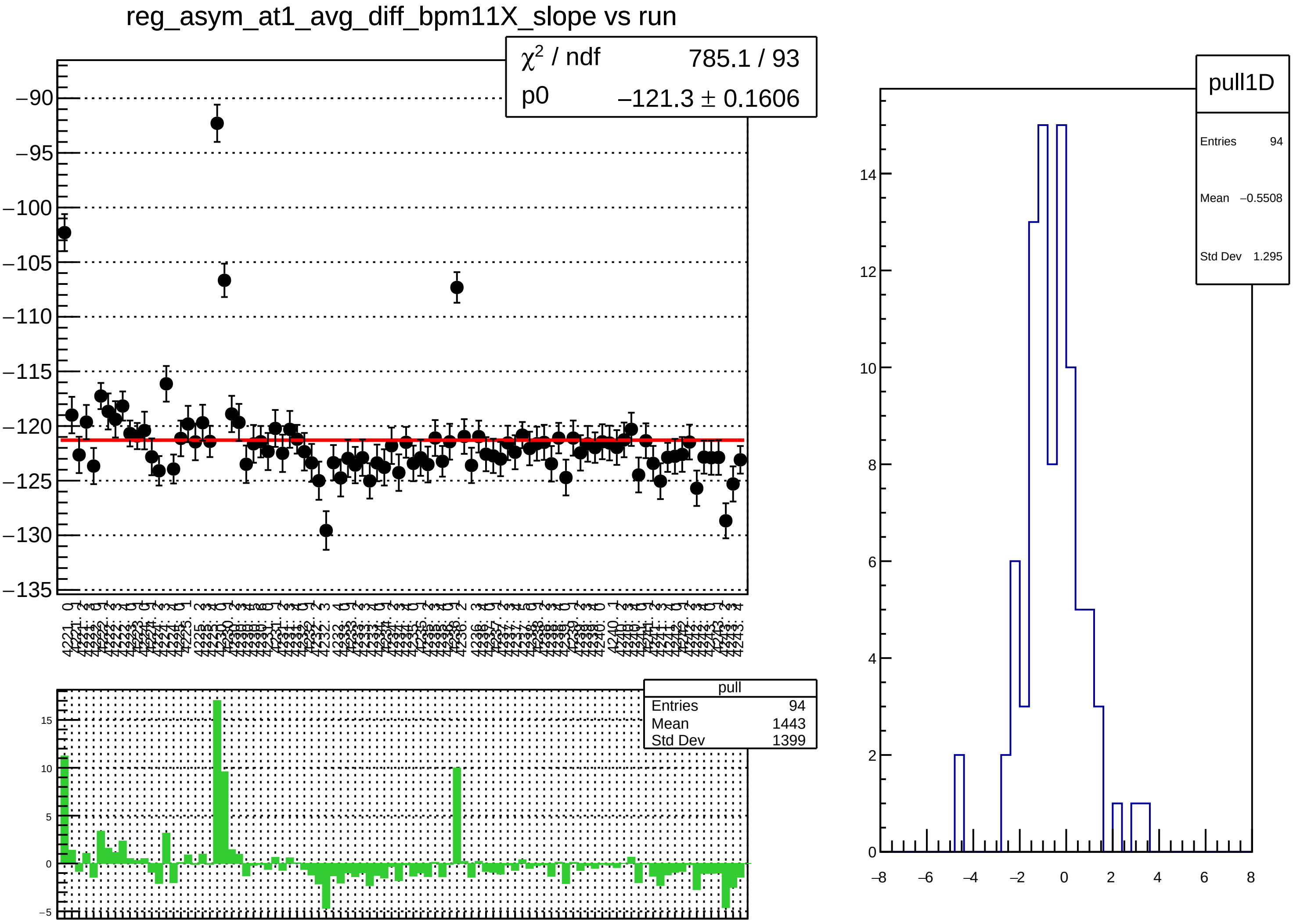


reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ2 / ndf 311.2 / 93
p0 20.28 ± 0.5131
pull
Entries 94
Mean 12.53
Std Dev 37.75
pull1D
Entries 94
Mean −0.1116
Std Dev 1.816

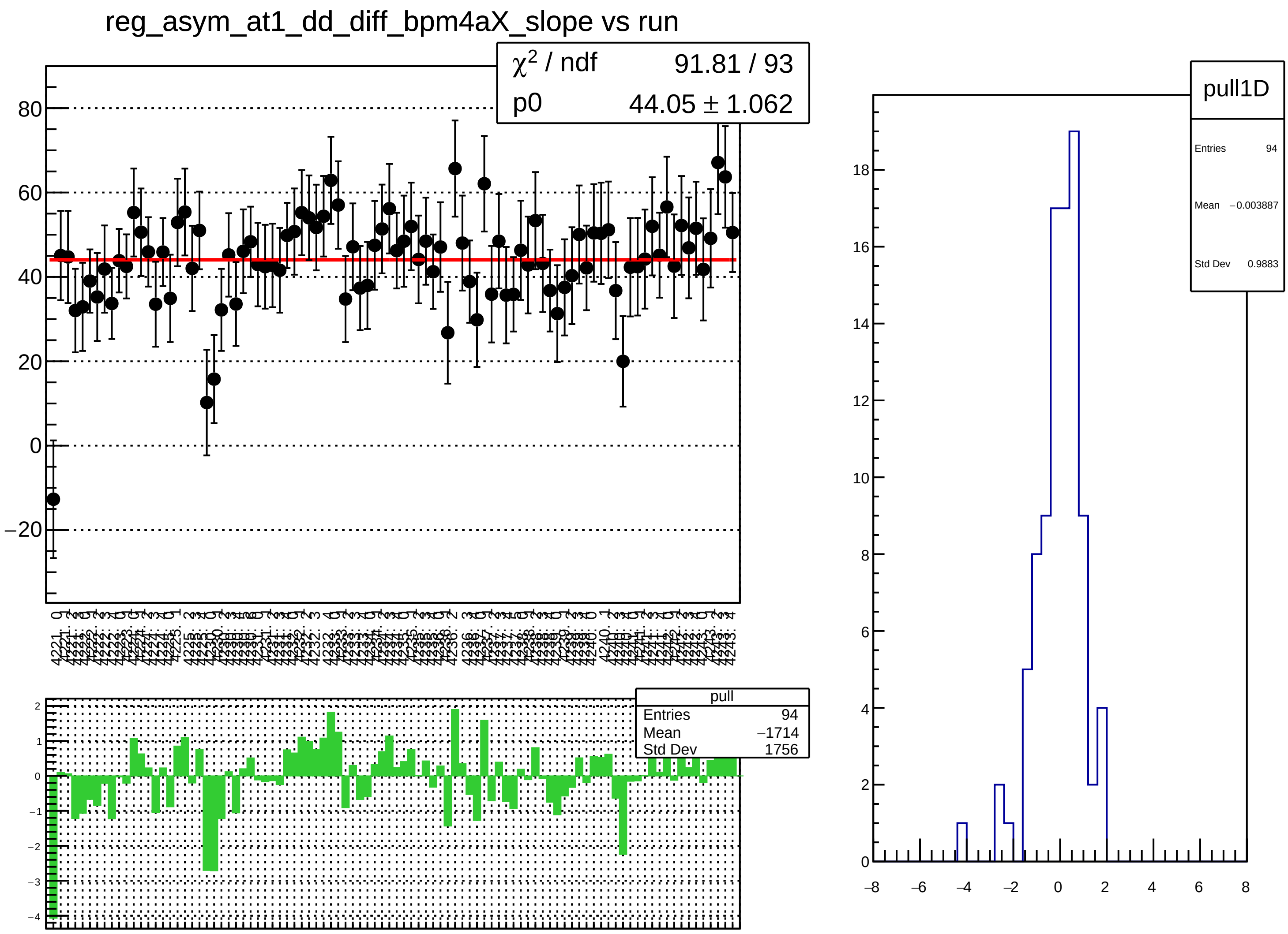


reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 228.9 / 93
p0 −71.19 ± 0.1255
pull
Entries 94
Mean 585.7
Std Dev 540.7
pull1D
Entries 94
Mean −0.05047
Std Dev 1.56

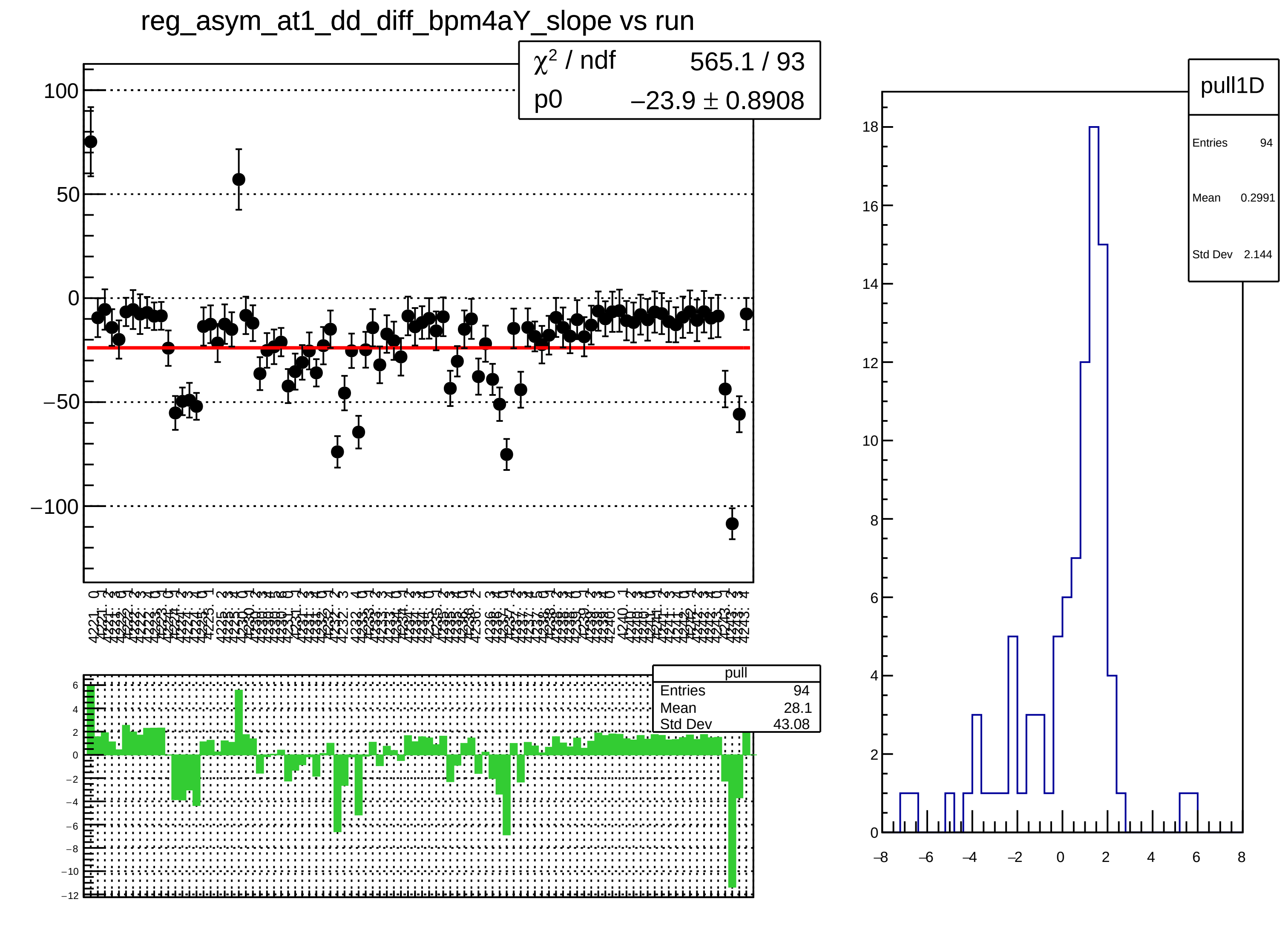

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ2 / ndf 268.3 / 93
p0 −11.83 ± 0.8434
pull
Entries 94
Mean 44.64
Std Dev 52.08
pull1D
Entries 94
Mean 0.07898
Std Dev 1.688



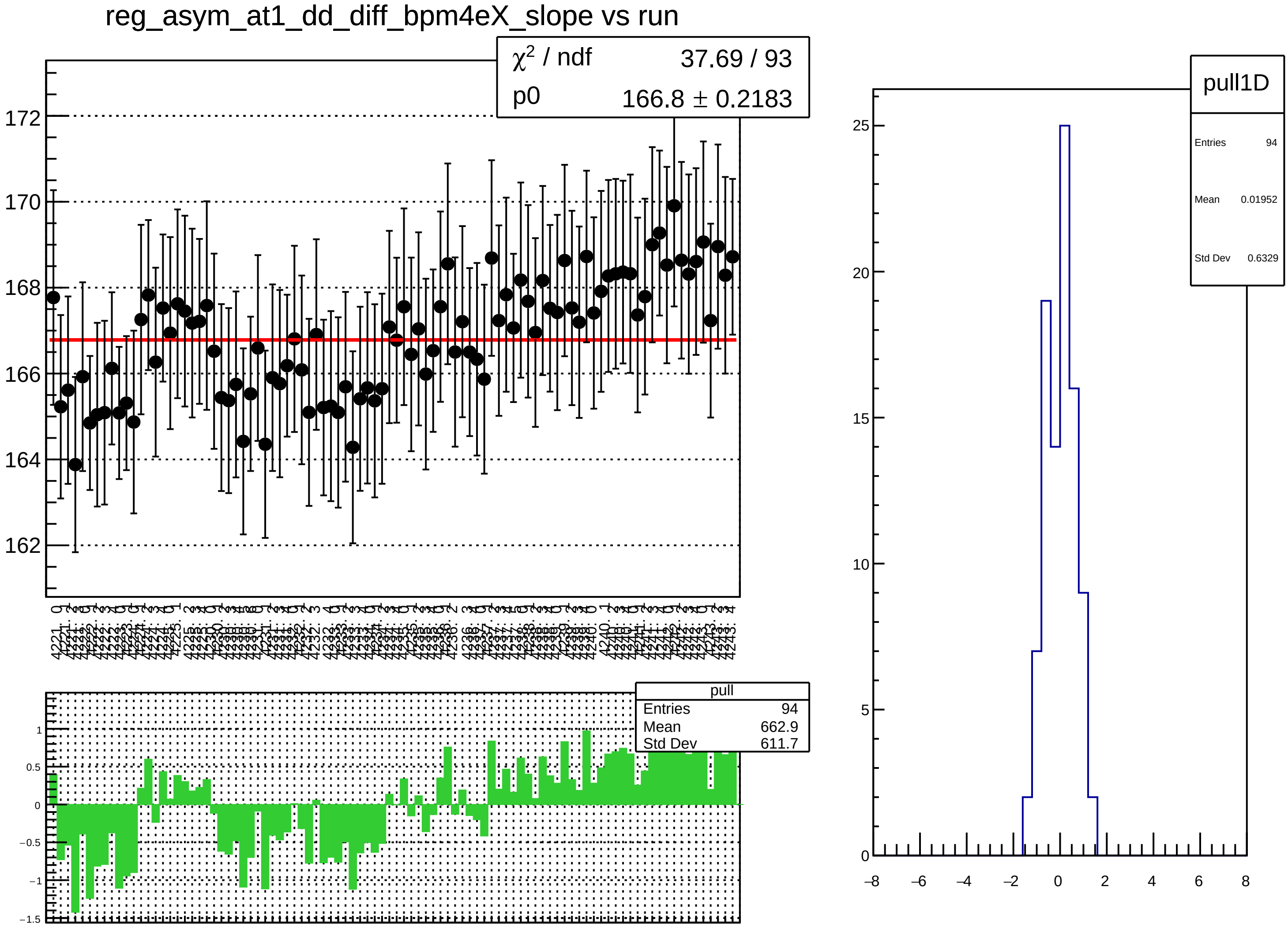
reg_asym_at1_avg_diff_bpm11X_slope vs run
χ^2 / ndf 785.1 / 93
p0 −121.3 ± 0.1606
pull
Entries 94
Mean 1443
Std Dev 1399
pull1D
Entries 94
Mean −0.5508
Std Dev 1.295



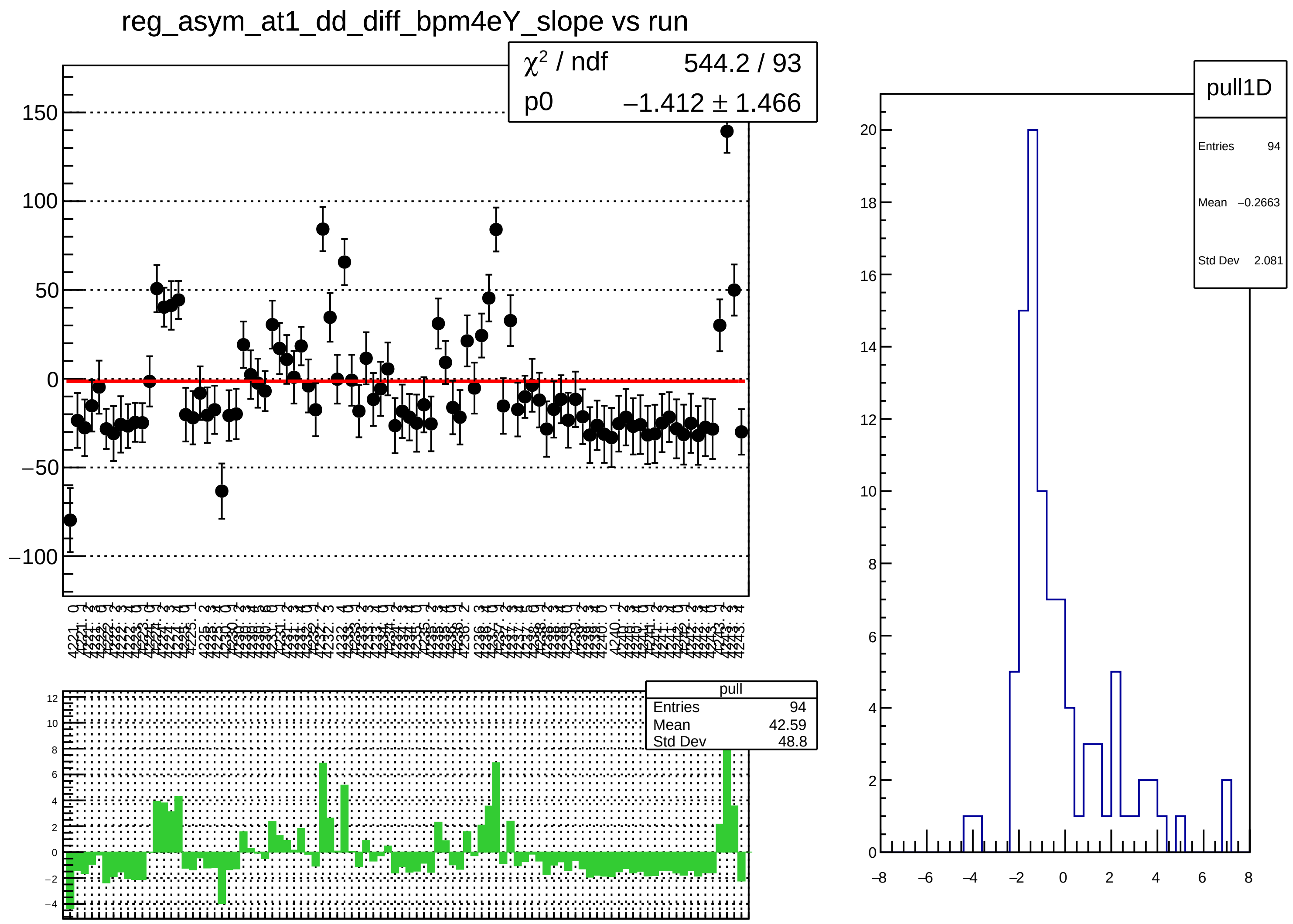
reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 91.81 / 93
p0 44.05 ± 1.062
pull
Entries 94
Mean −1714
Std Dev 1756
pull1D
Entries 94
Mean −0.003887
Std Dev 0.9883



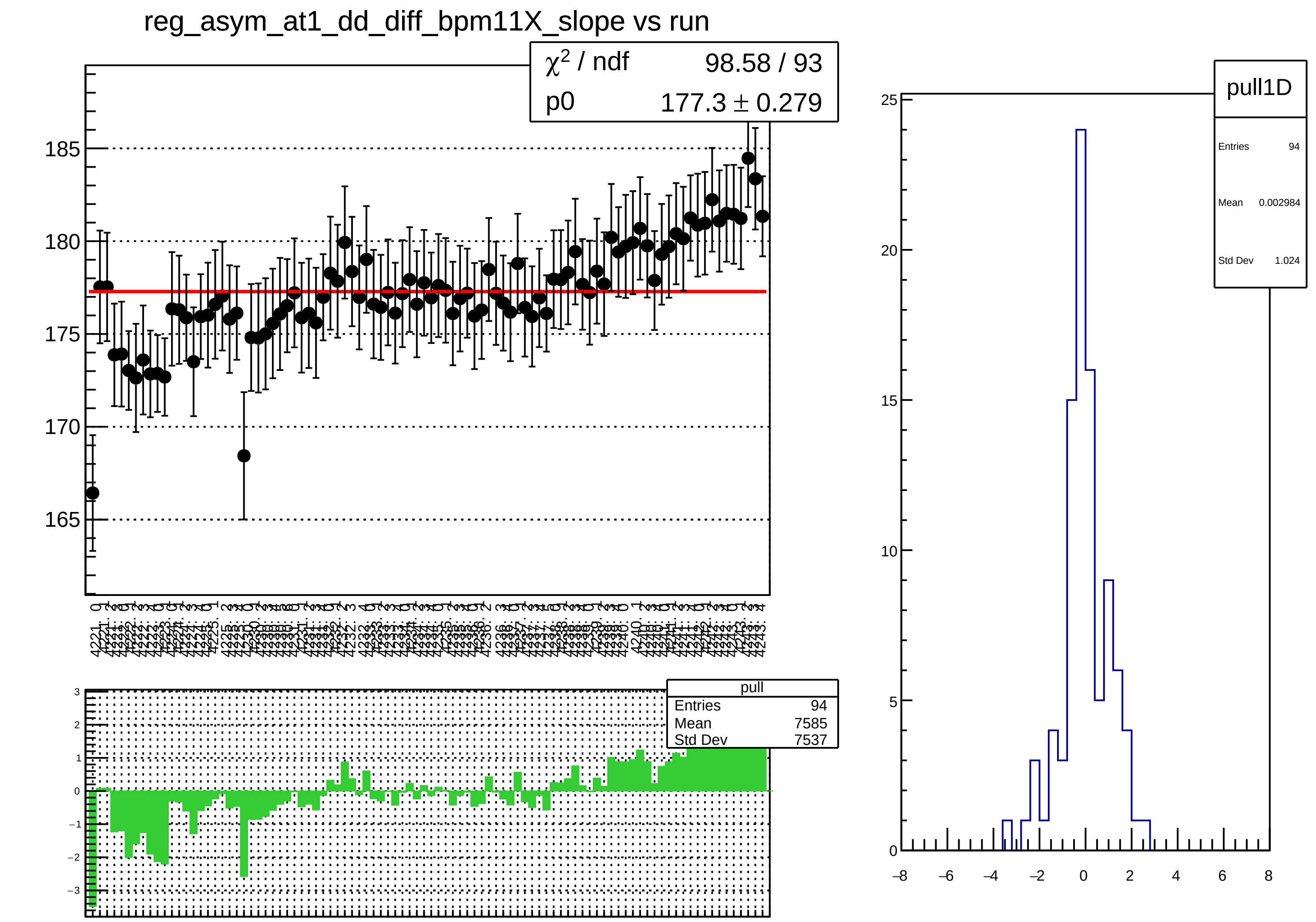
reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ2 / ndf 565.1 / 93
p0 −23.9 ± 0.8908
pull
Entries 94
Mean 28.1
Std Dev 43.08
pull1D
Entries 94
Mean 0.2991
Std Dev 2.144



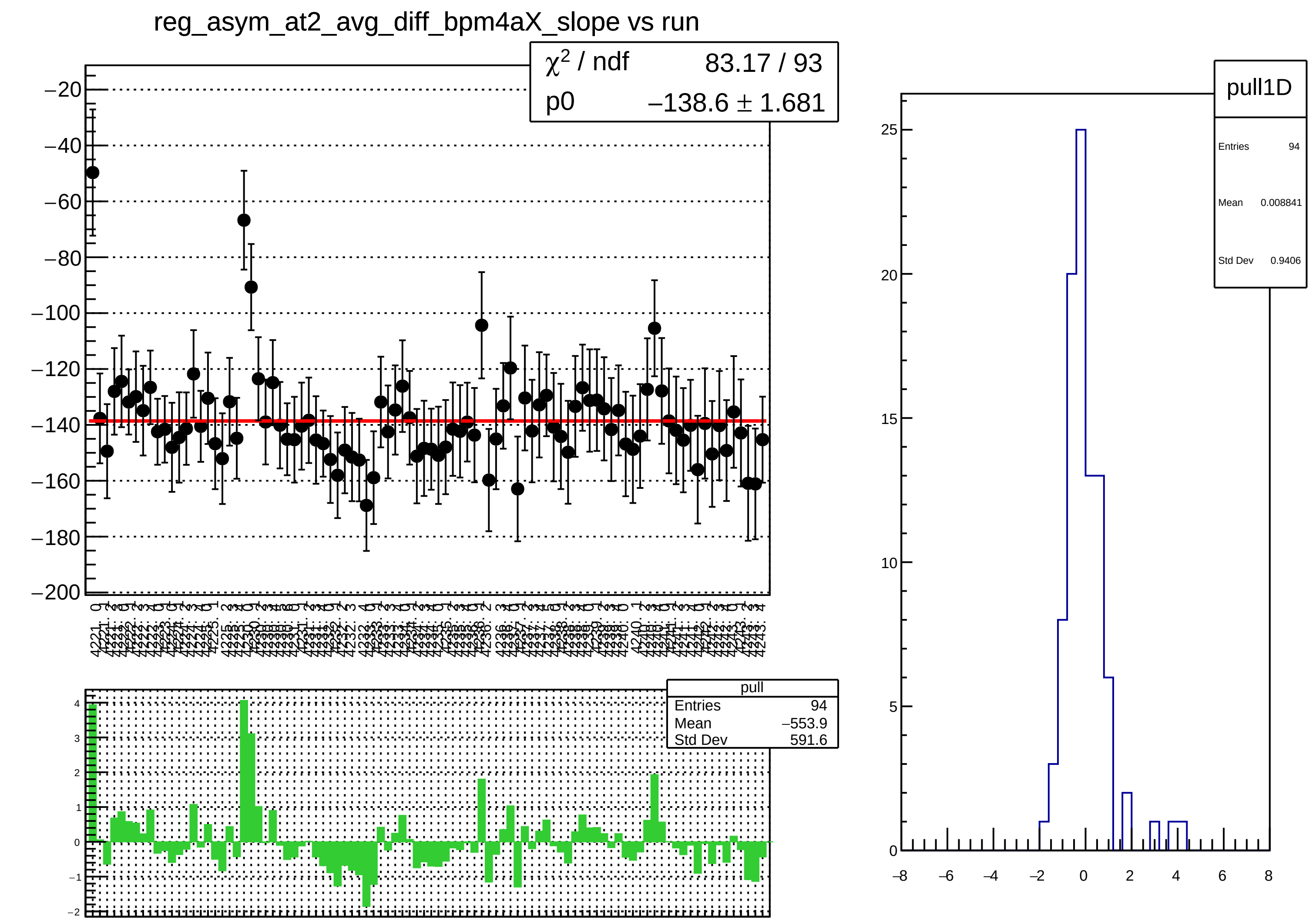
reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ2 / ndf 37.69 / 93
p0 166.8 ± 0.2183
pull
Entries 94
Mean 662.9
Std Dev 611.7
pull1D
Entries 94
Mean 0.01952
Std Dev 0.6329



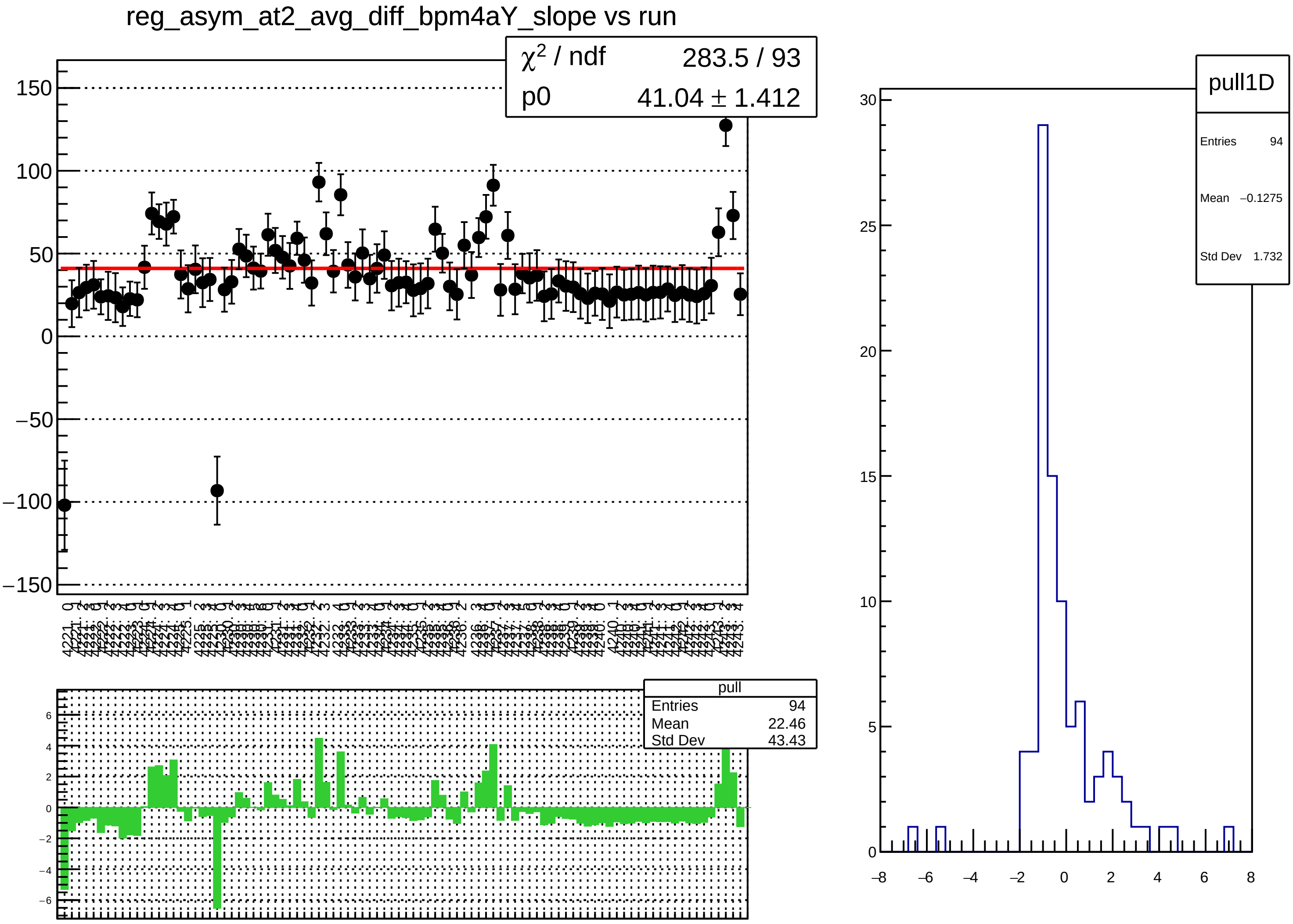
reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 544.2 / 93
p0 −1.412 ± 1.466
pull
Entries 94
Mean 42.59
Std Dev 48.8
pull1D
Entries 94
Mean −0.2663
Std Dev 2.081



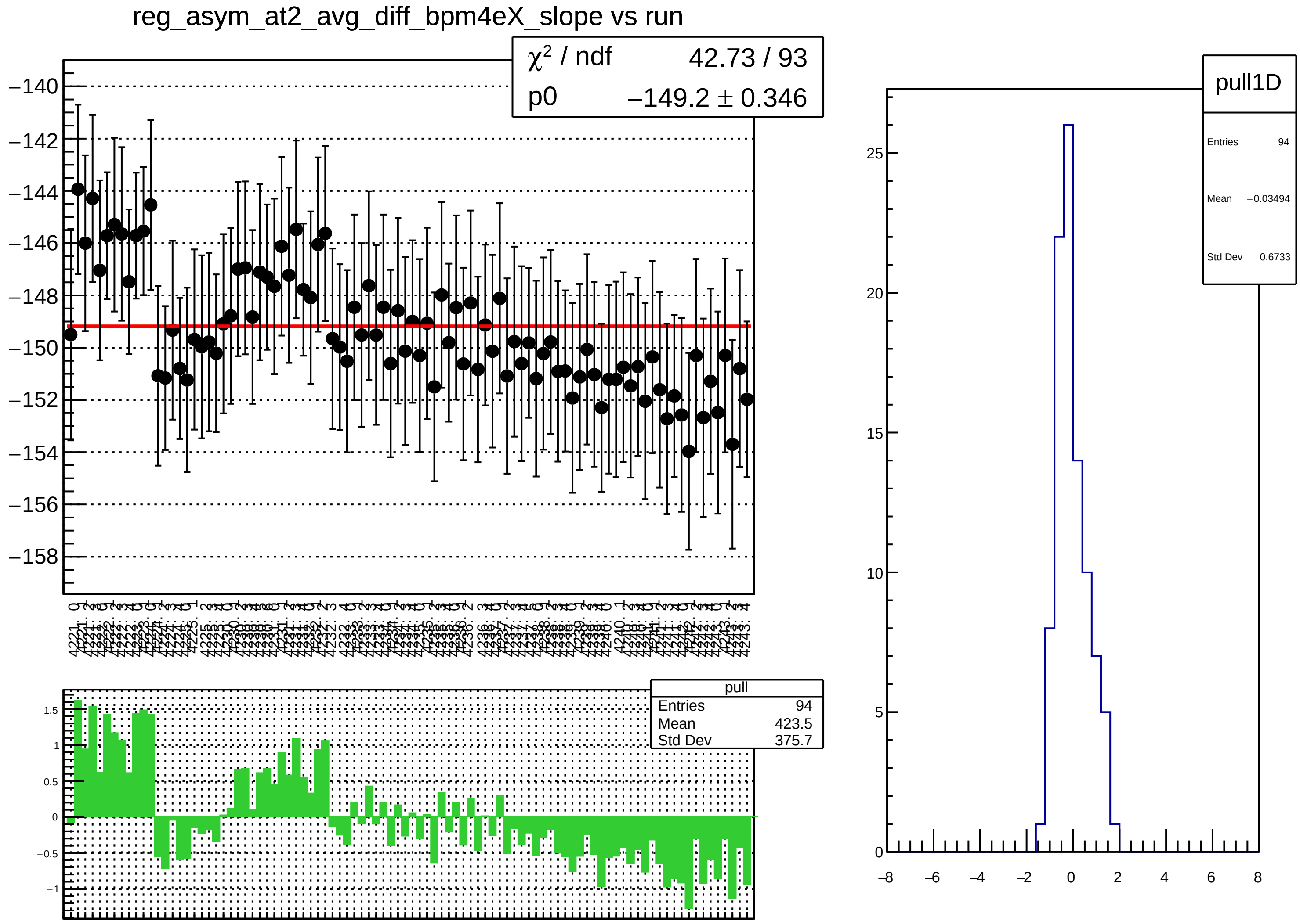
reg_asym_at1_dd_diff_bpm11X_slope vs run
χ^2 / ndf 98.58 / 93
p0 177.3 ± 0.279
185
180
175
170
165
pull
Entries 94
Mean 7585
Std Dev 7537
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.002984
Std Dev 1.024
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



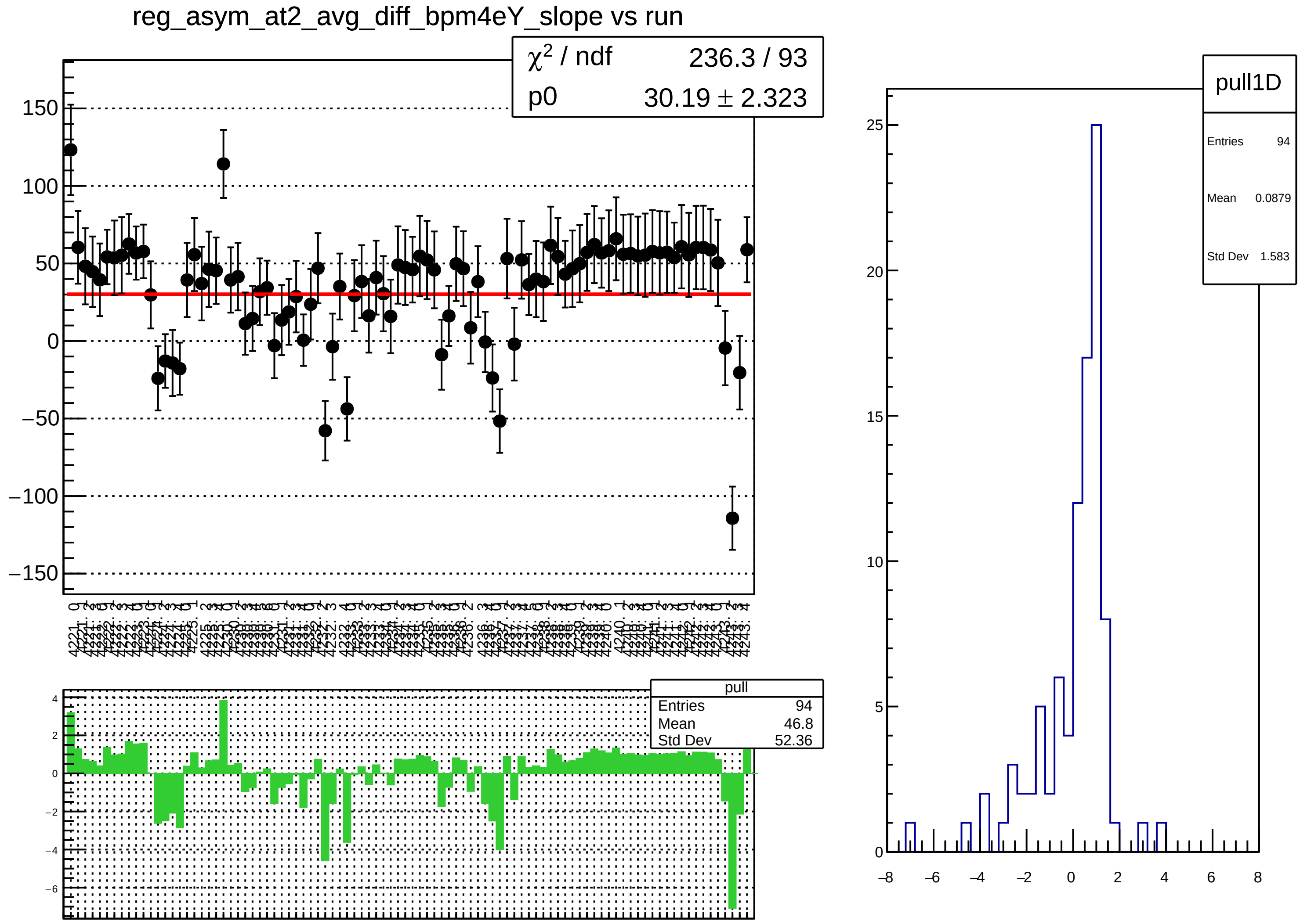
reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 83.17 / 93
p0 −138.6 ± 1.681
pull
Entries 94
Mean −553.9
Std Dev 591.6
pull1D
Entries 94
Mean 0.008841
Std Dev 0.9406



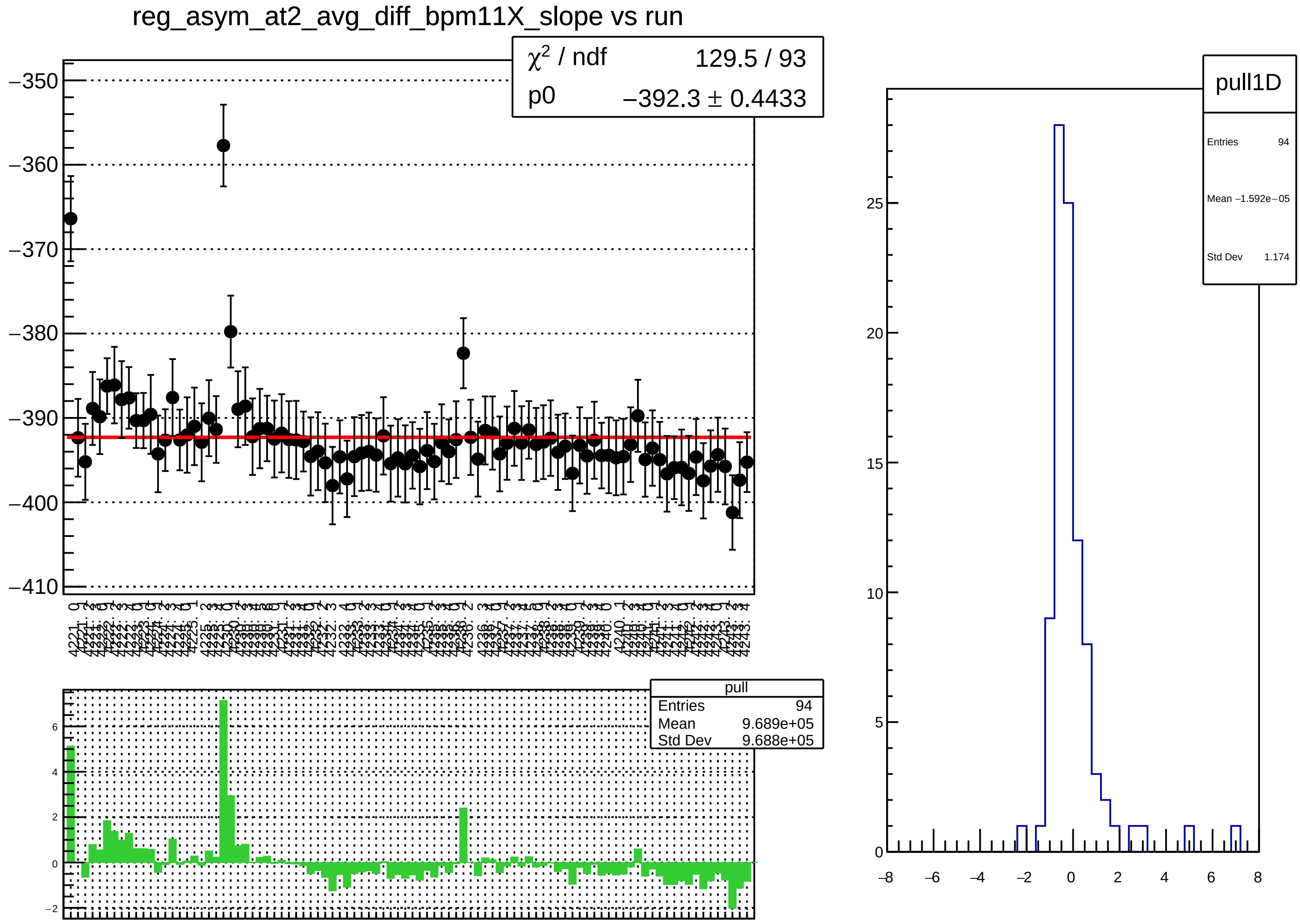
reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 283.5 / 93
p0 41.04 ± 1.412
pull
Entries 94
Mean 22.46
Std Dev 43.43
pull1D
Entries 94
Mean −0.1275
Std Dev 1.732



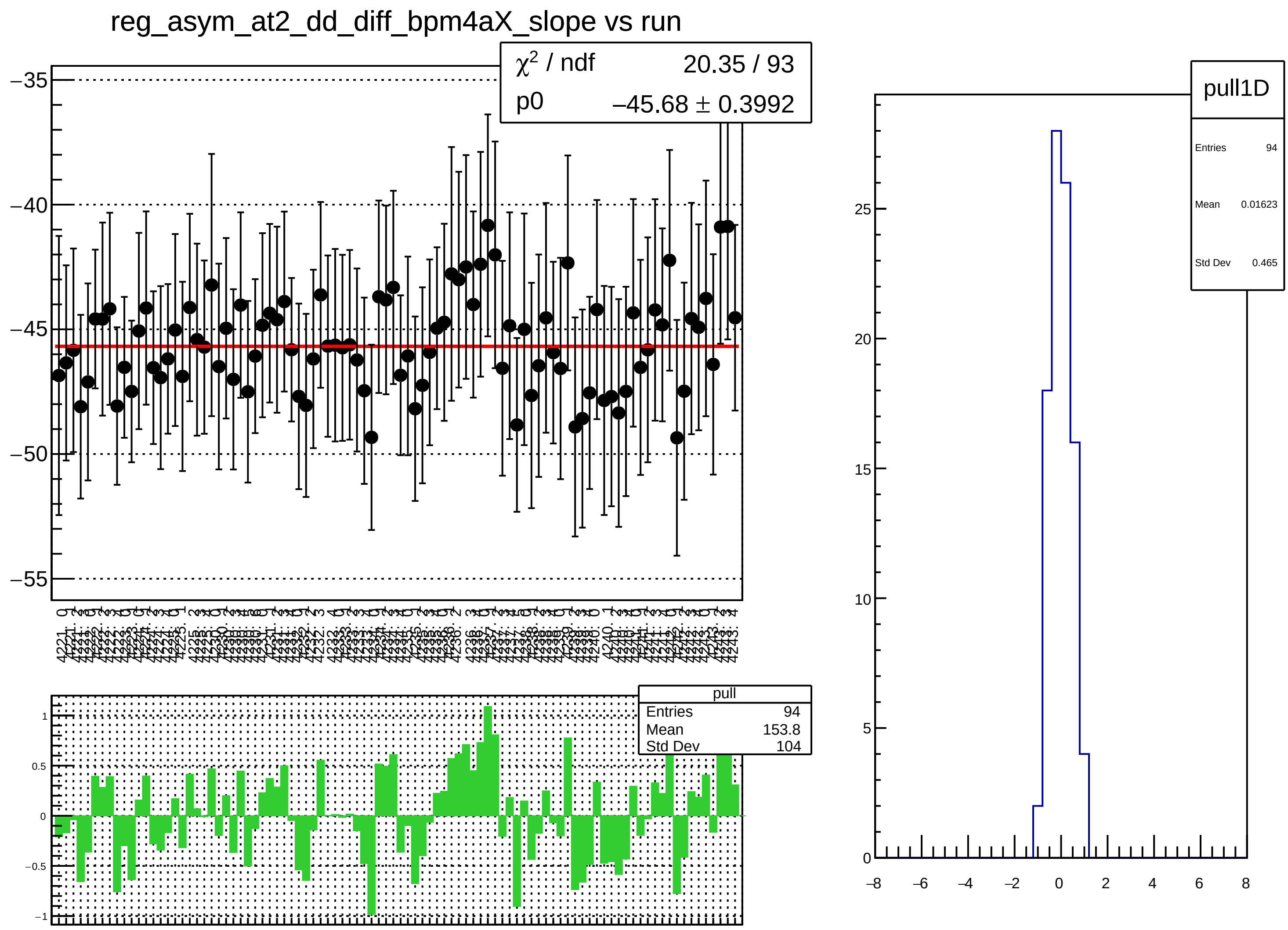
reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 42.73 / 93
p0 −149.2 ± 0.346
pull
Entries 94
Mean 423.5
Std Dev 375.7
pull1D
Entries 94
Mean −0.03494
Std Dev 0.6733



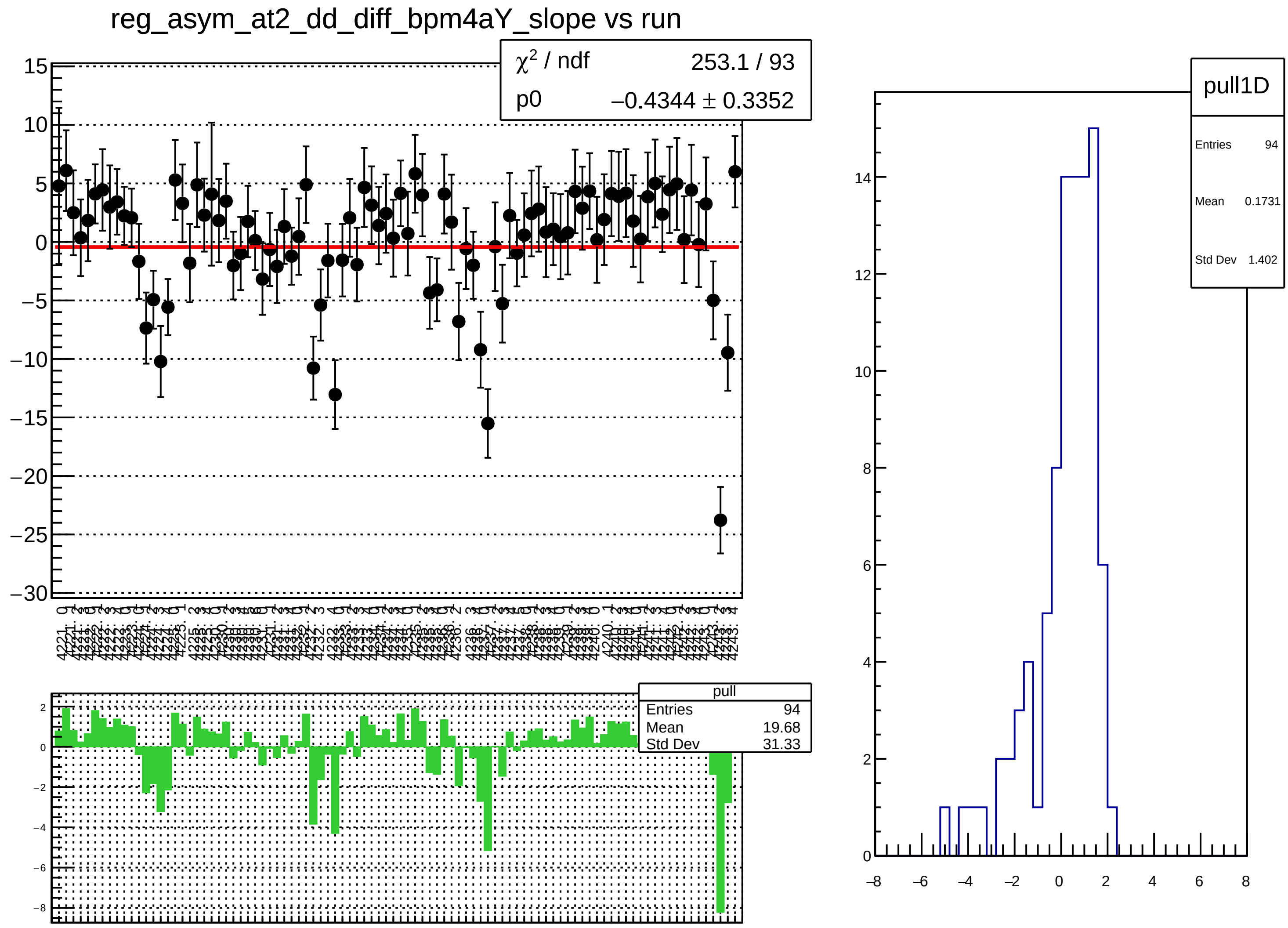
reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 236.3 / 93
p0 30.19 ± 2.323
pull
Entries 94
Mean 46.8
Std Dev 52.36
pull1D
Entries 94
Mean 0.0879
Std Dev 1.583



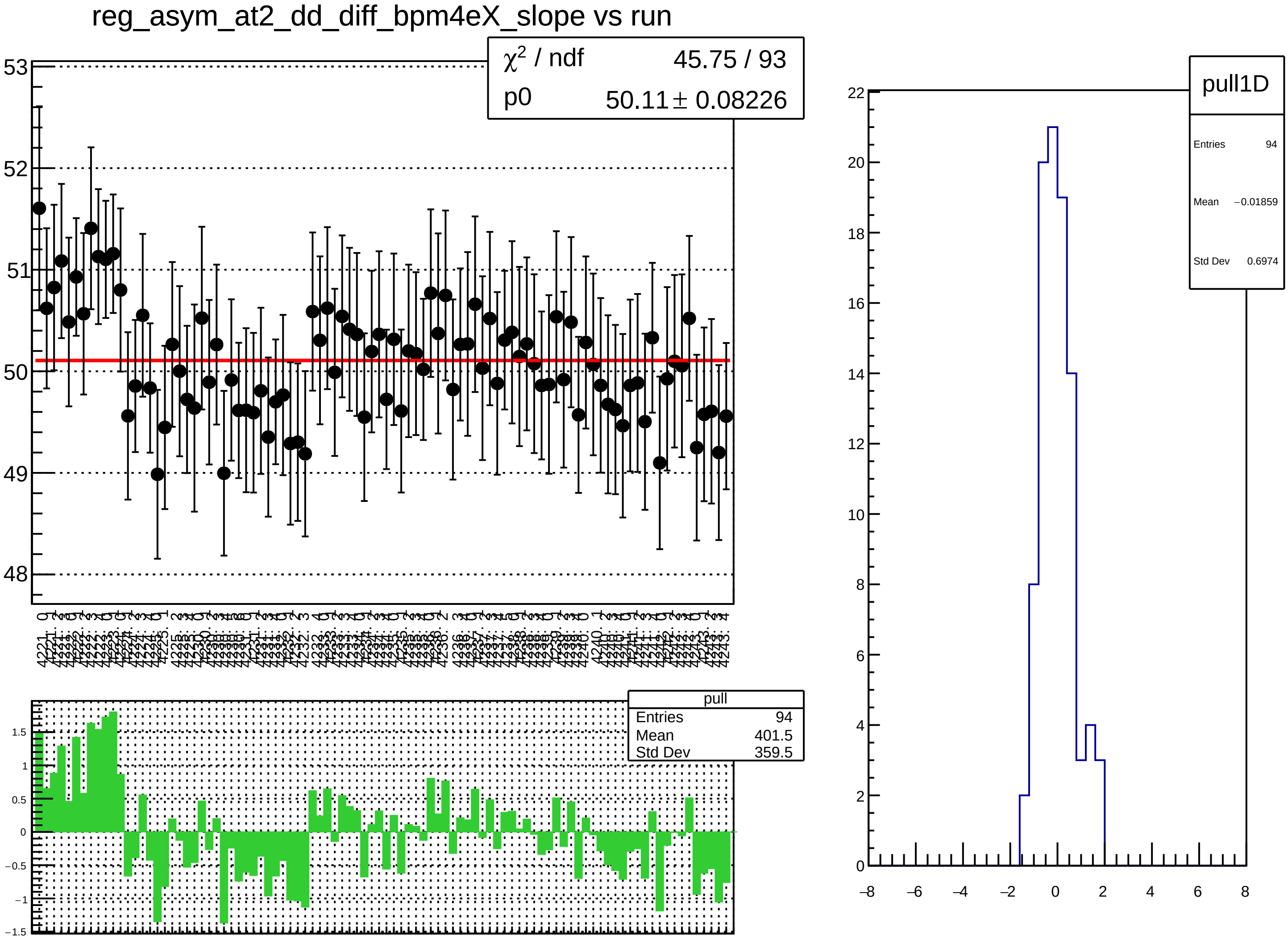
reg_asym_at2_avg_diff_bpm11X_slope vs run
χ^2 / ndf 129.5 / 93
p0 −392.3 ± 0.4433
−350
−360
−370
−380
−390
−400
−410
pull
Entries 94
Mean 9.689e+05
Std Dev 9.688e+05
pull1D
Entries 94
Mean −1.592e−05
Std Dev 1.174



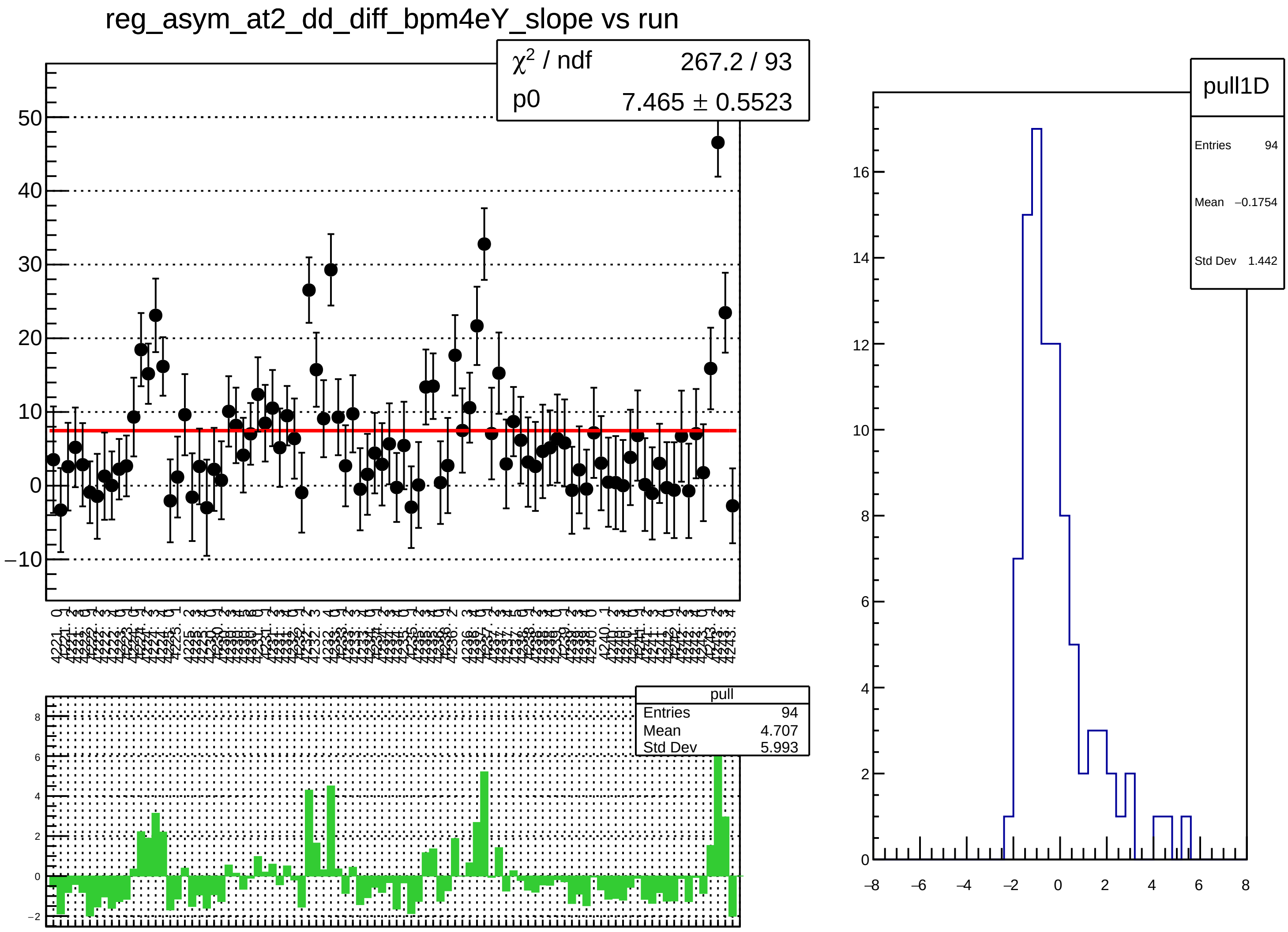
reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 20.35 / 93
p0 −45.68 ± 0.3992
pull
Entries 94
Mean 153.8
Std Dev 104
pull1D
Entries 94
Mean 0.01623
Std Dev 0.465



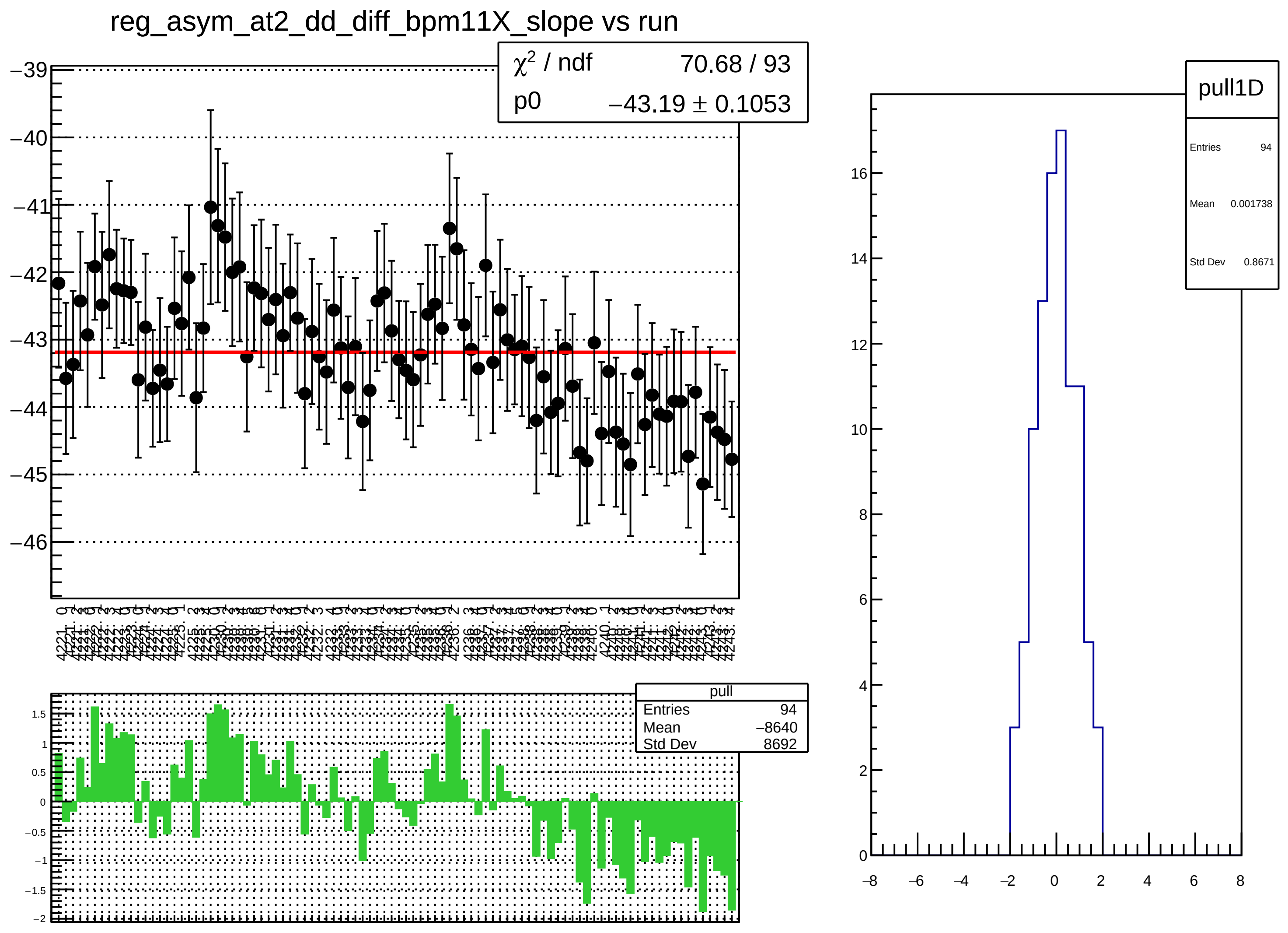
reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 253.1 / 93
p0 −0.4344 ± 0.3352
pull
Entries 94
Mean 19.68
Std Dev 31.33
pull1D
Entries 94
Mean 0.1731
Std Dev 1.402



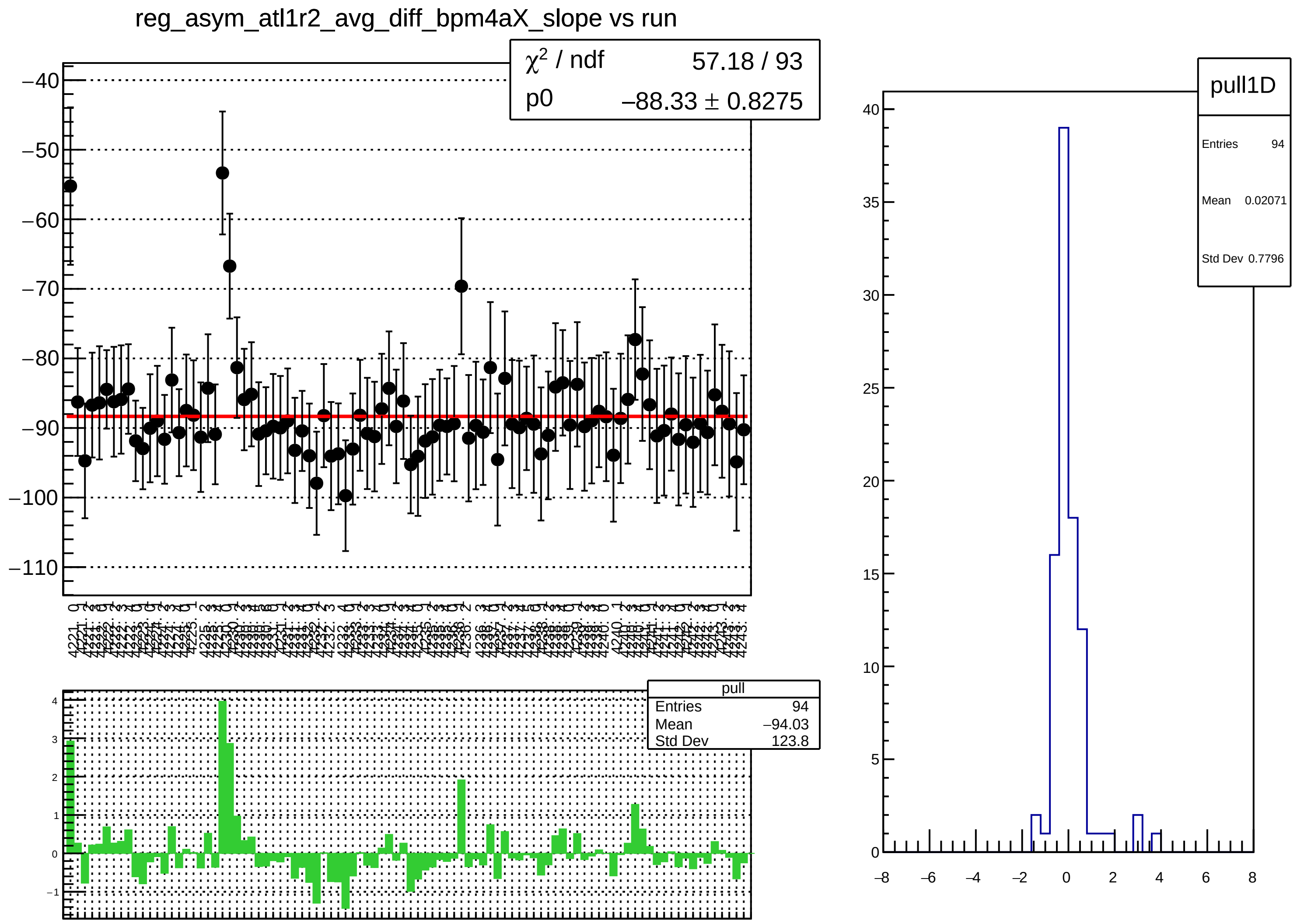
reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ2 / ndf 45.75 / 93
p0 50.11 ± 0.08226
pull
Entries 94
Mean 401.5
Std Dev 359.5
pull1D
Entries 94
Mean −0.01859
Std Dev 0.6974

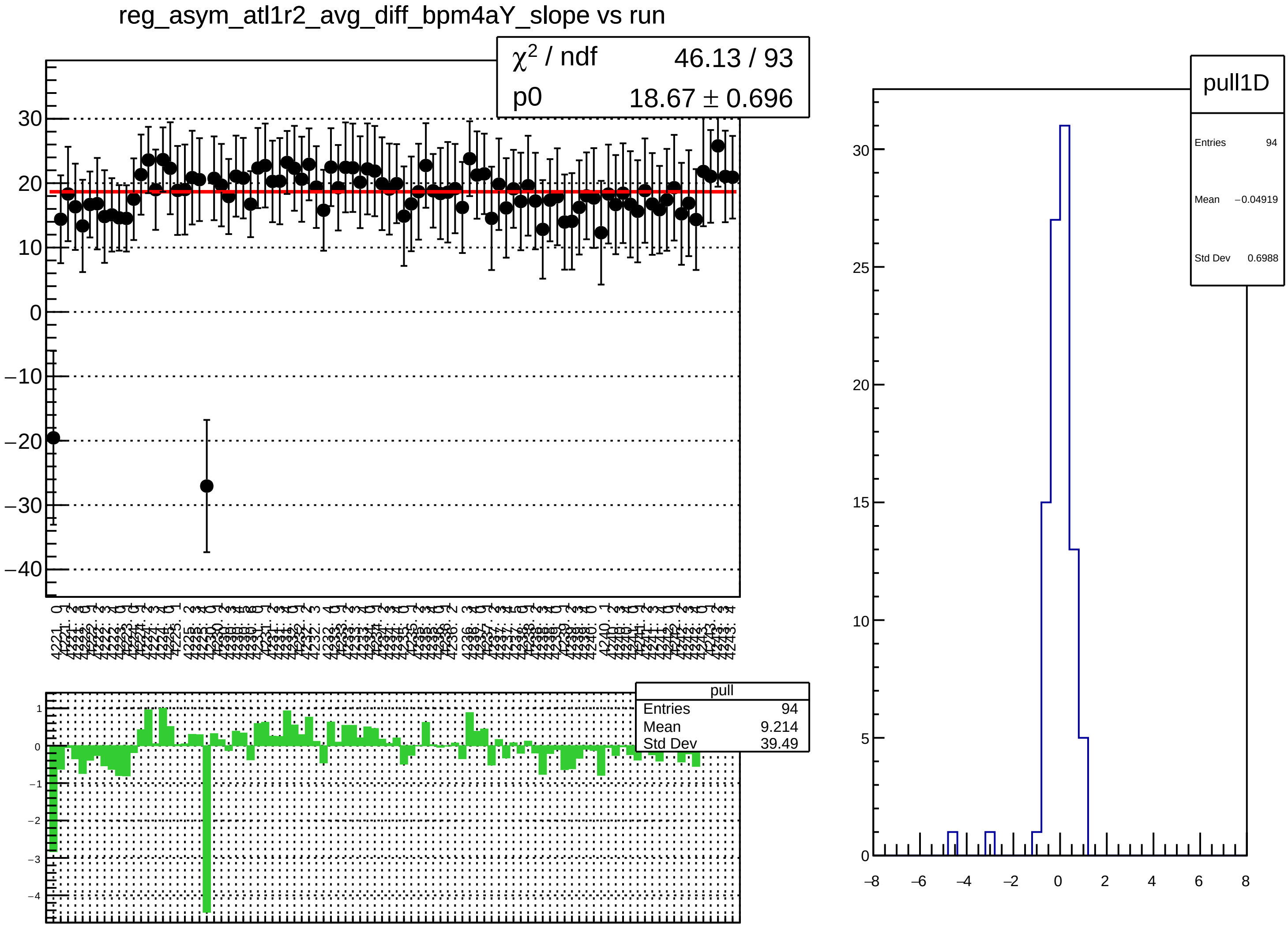


reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ2 / ndf 267.2 / 93
p0 7.465 ± 0.5523
pull
Entries 94
Mean 4.707
Std Dev 5.993
pull1D
Entries 94
Mean −0.1754
Std Dev 1.442

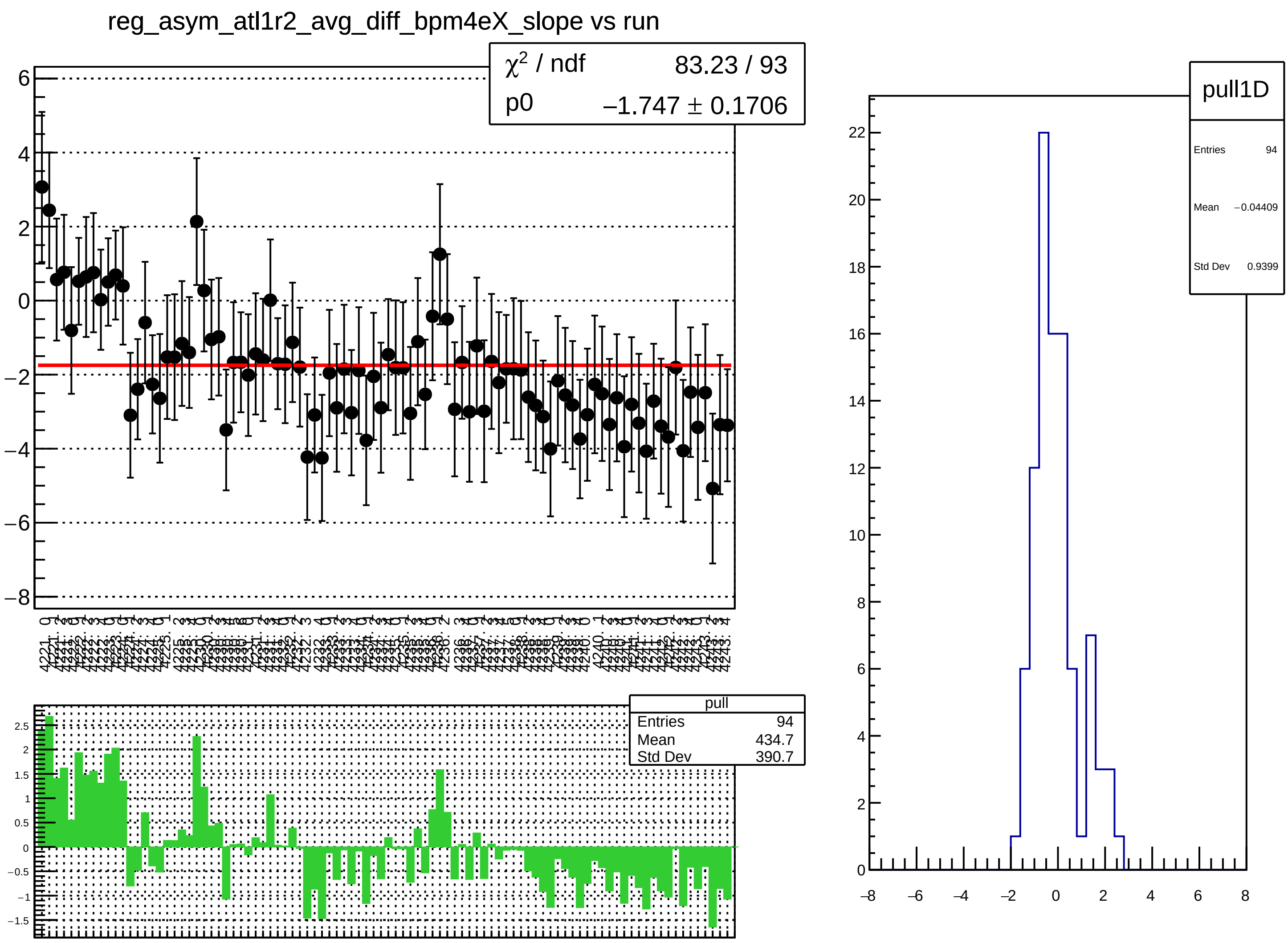


reg_asym_at2_dd_diff_bpm11X_slope vs run
χ2 / ndf 70.68 / 93
p0 −43.19 ± 0.1053
pull
Entries 94
Mean −8640
Std Dev 8692
pull1D
Entries 94
Mean 0.001738
Std Dev 0.8671

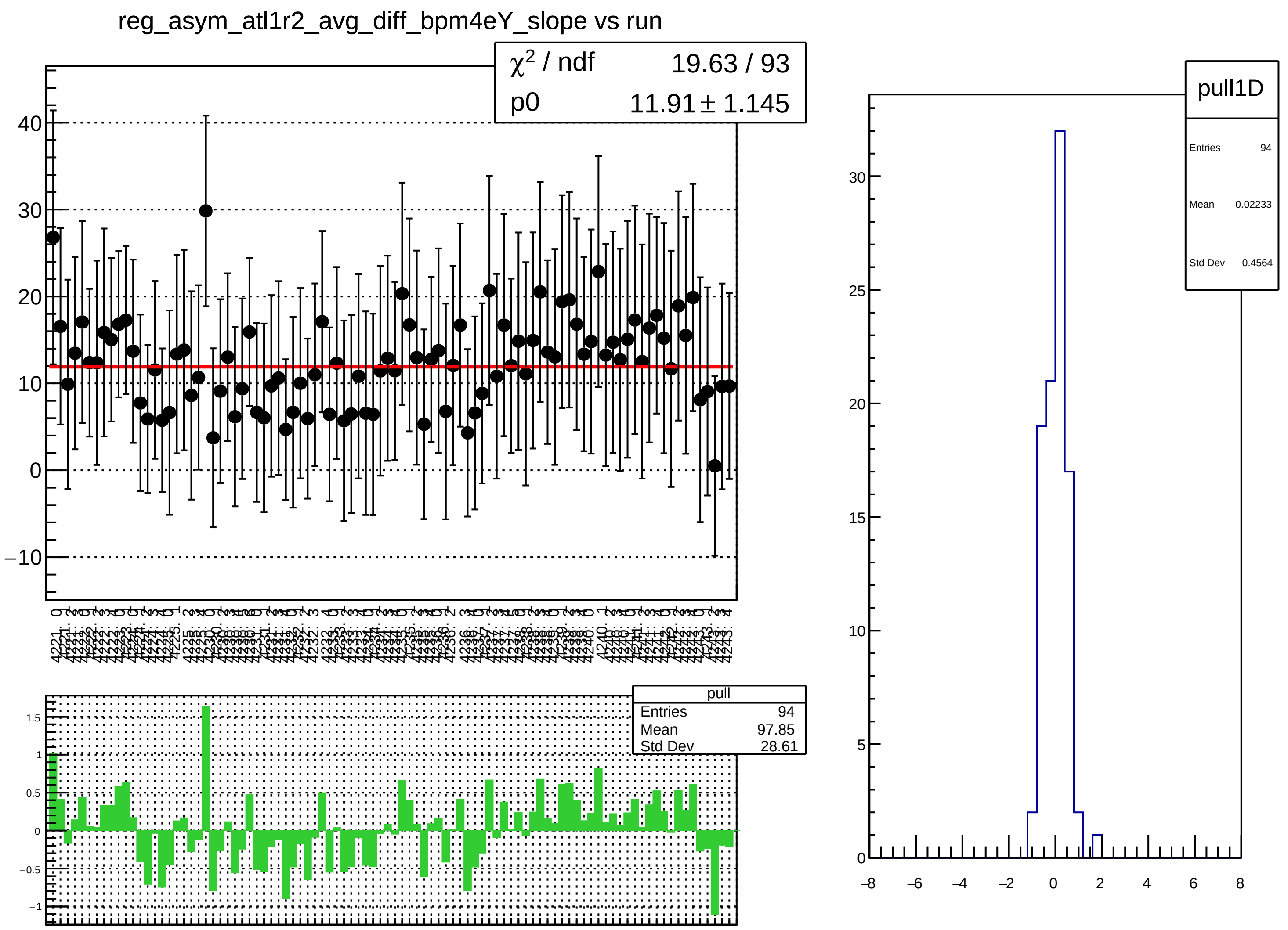

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 57.18 / 93
p0 −88.33 ± 0.8275
pull
Entries 94
Mean −94.03
Std Dev 123.8
pull1D
Entries 94
Mean 0.02071
Std Dev 0.7796



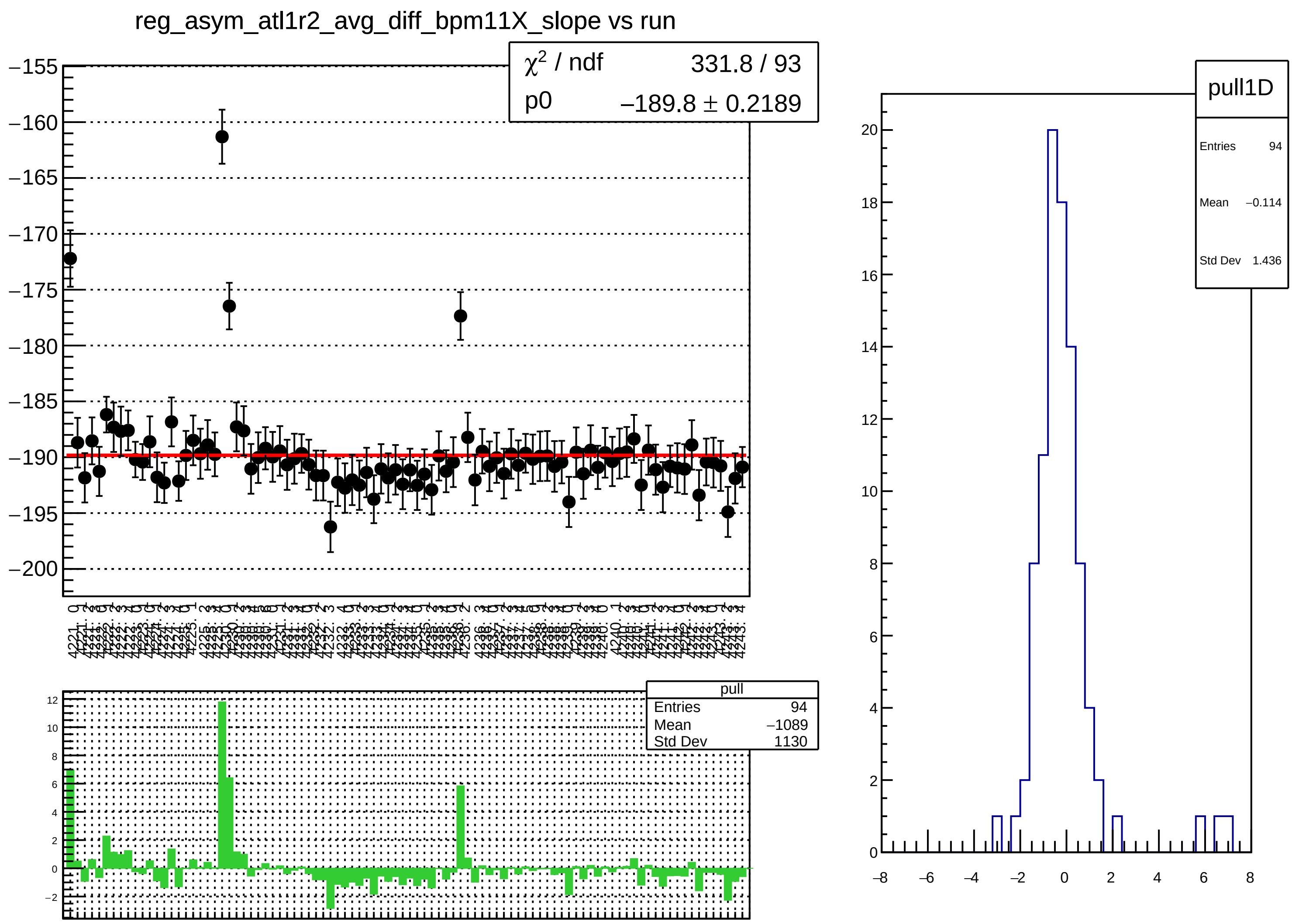
reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ2 / ndf 46.13 / 93
p0 18.67 ± 0.696
pull
Entries 94
Mean 9.214
Std Dev 39.49
pull1D
Entries 94
Mean −0.04919
Std Dev 0.6988



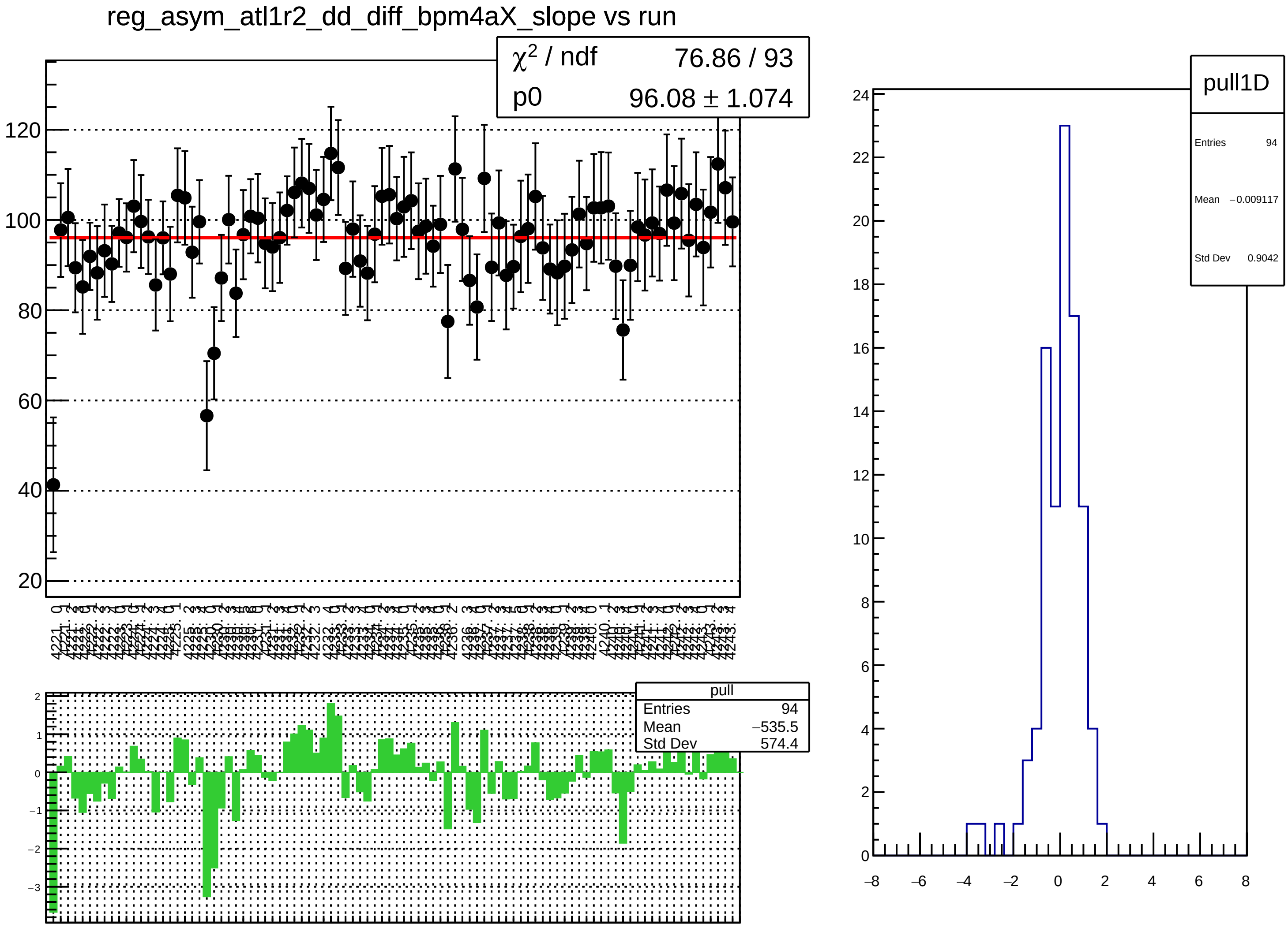
reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 83.23 / 93
p0 −1.747 ± 0.1706
pull
Entries 94
Mean 434.7
Std Dev 390.7
pull1D
Entries 94
Mean −0.04409
Std Dev 0.9399



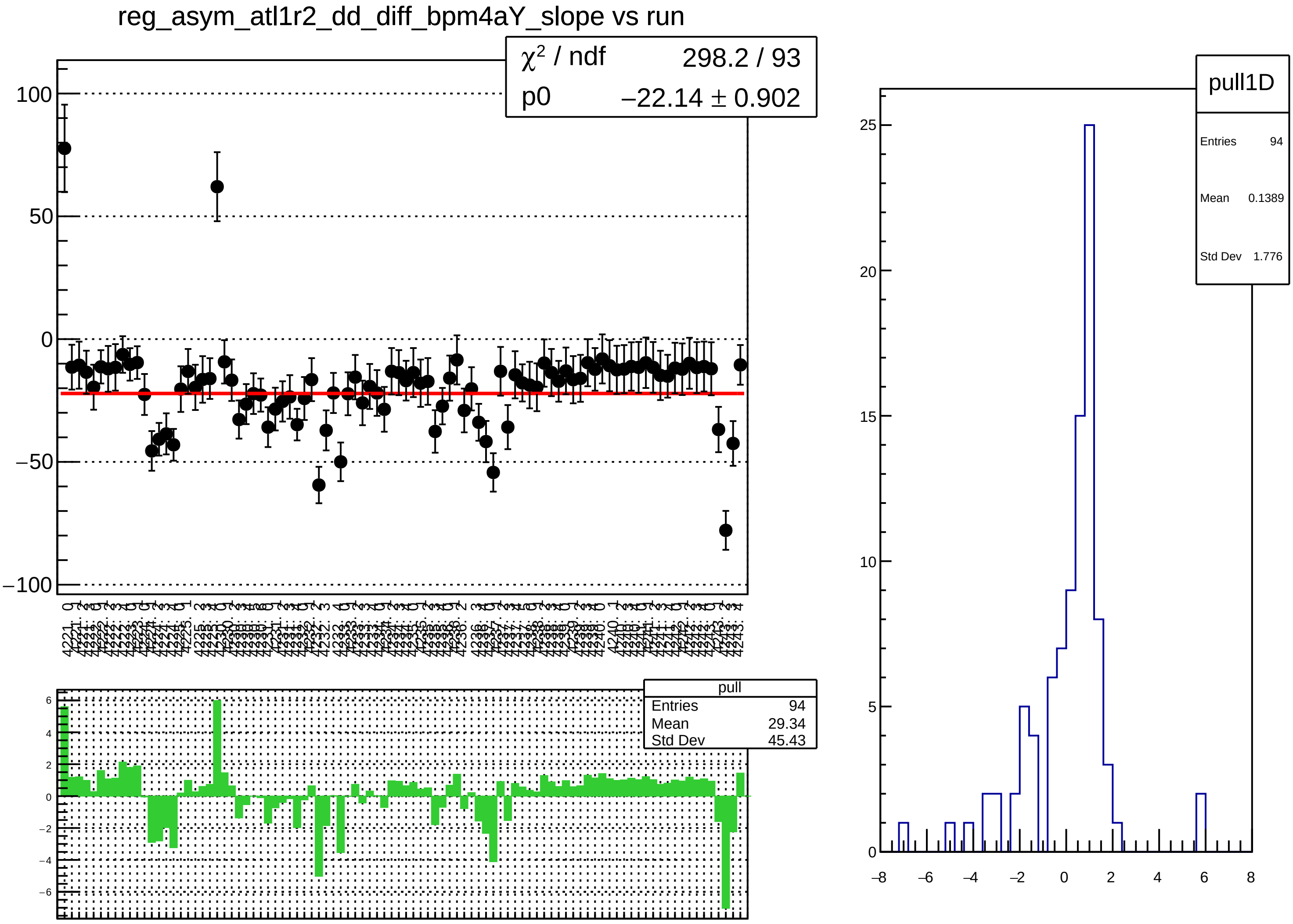
reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 19.63 / 93
p0 11.91 ± 1.145
pull
Entries 94
Mean 97.85
Std Dev 28.61
pull1D
Entries 94
Mean 0.02233
Std Dev 0.4564



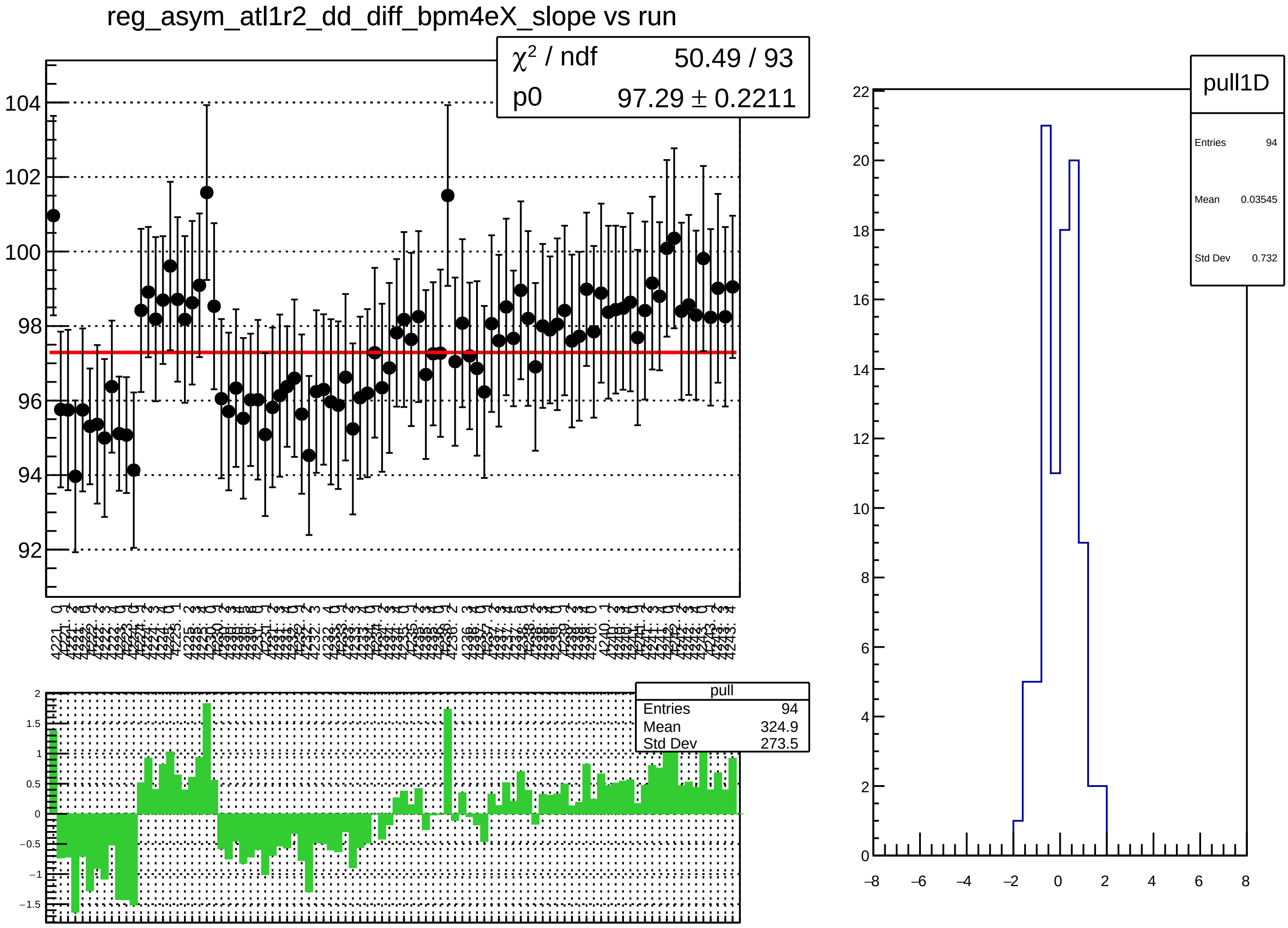
reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ^2 / ndf 331.8 / 93
p0 −189.8 ± 0.2189
pull
Entries 94
Mean −1089
Std Dev 1130
pull1D
Entries 94
Mean −0.114
Std Dev 1.436



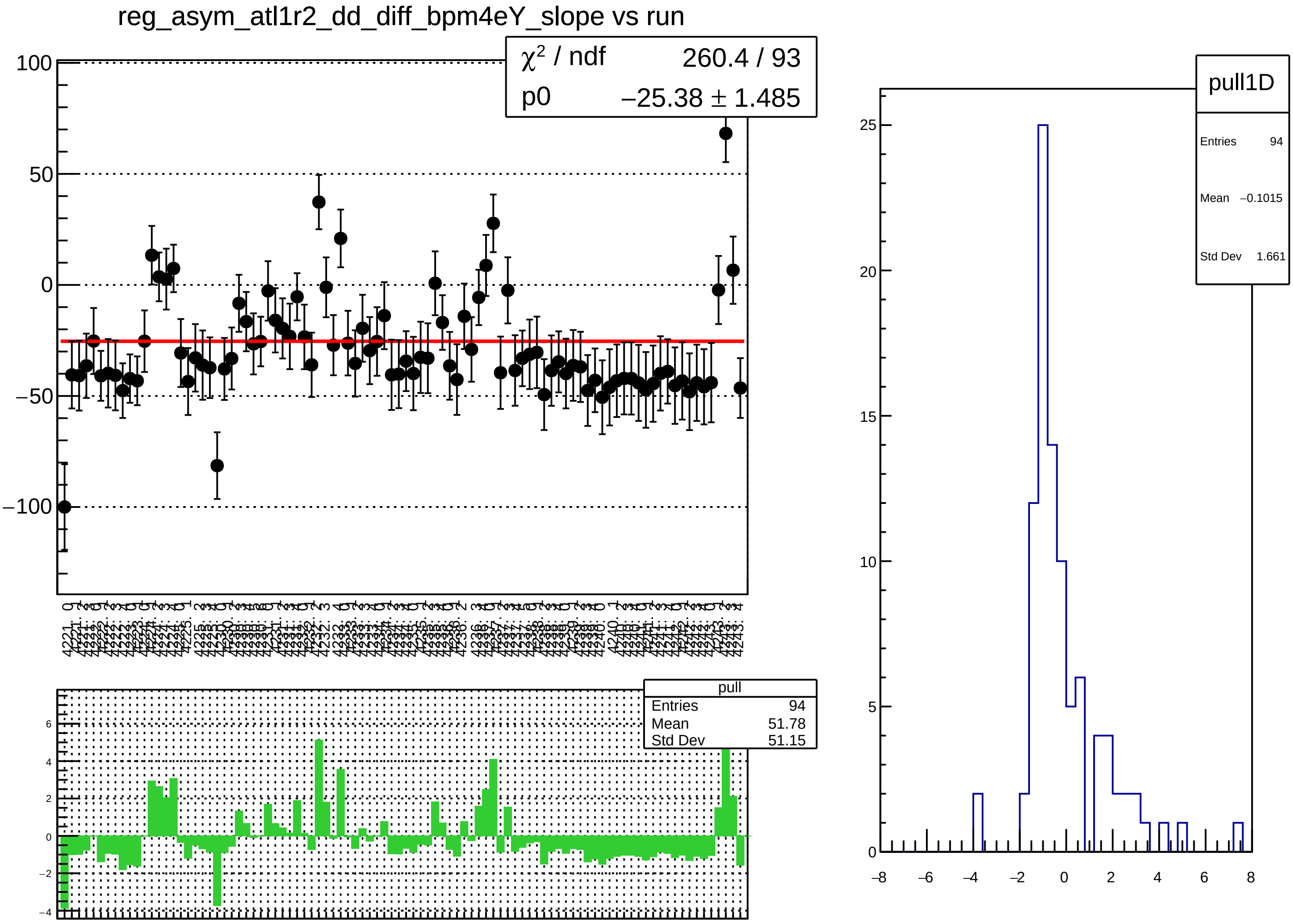
reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ2 / ndf 76.86 / 93
p0 96.08 ± 1.074
pull
Entries 94
Mean −535.5
Std Dev 574.4
pull1D
Entries 94
Mean −0.009117
Std Dev 0.9042



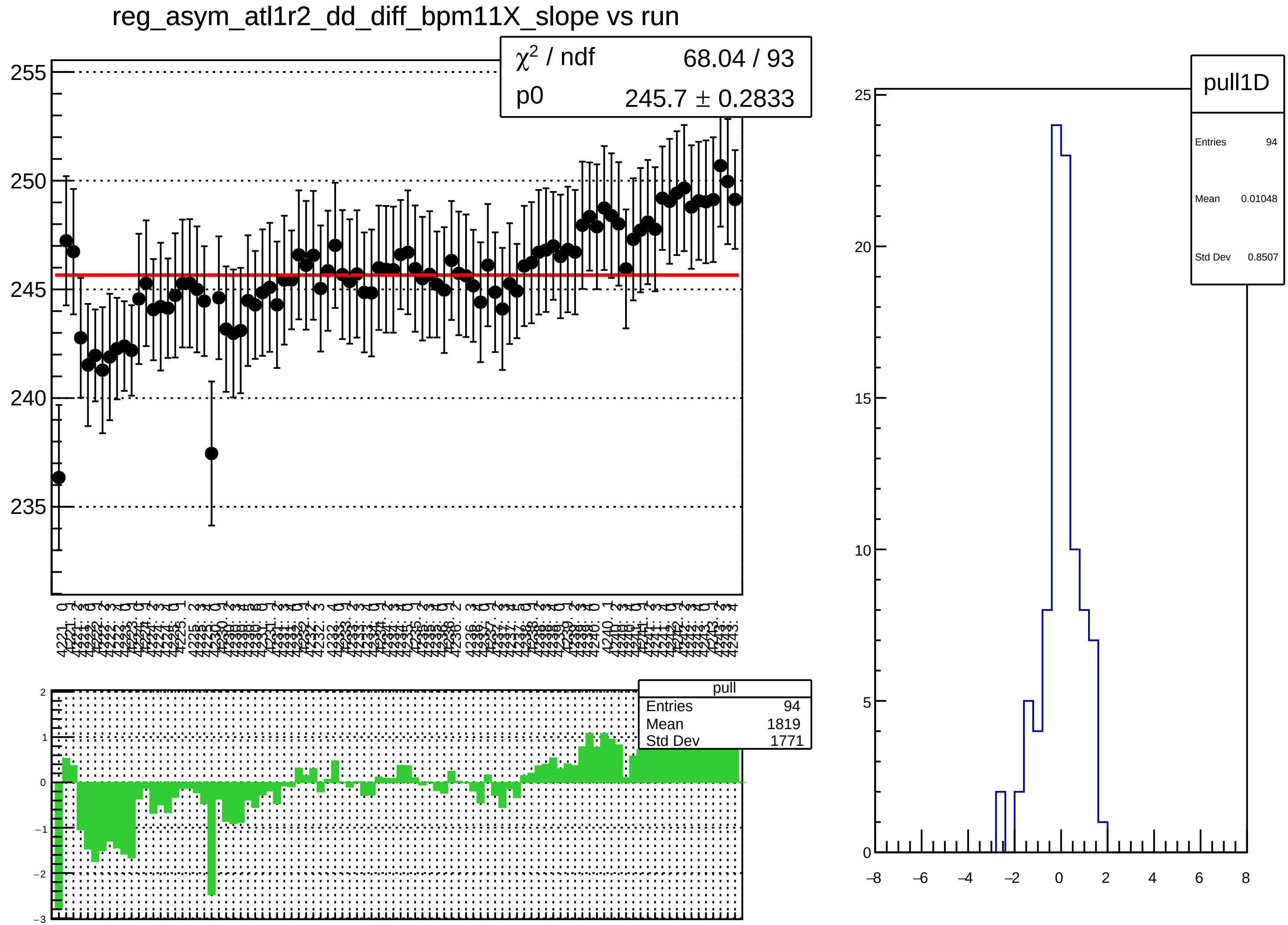
reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 298.2 / 93
p0 −22.14 ± 0.902
pull
Entries 94
Mean 29.34
Std Dev 45.43
pull1D
Entries 94
Mean 0.1389
Std Dev 1.776



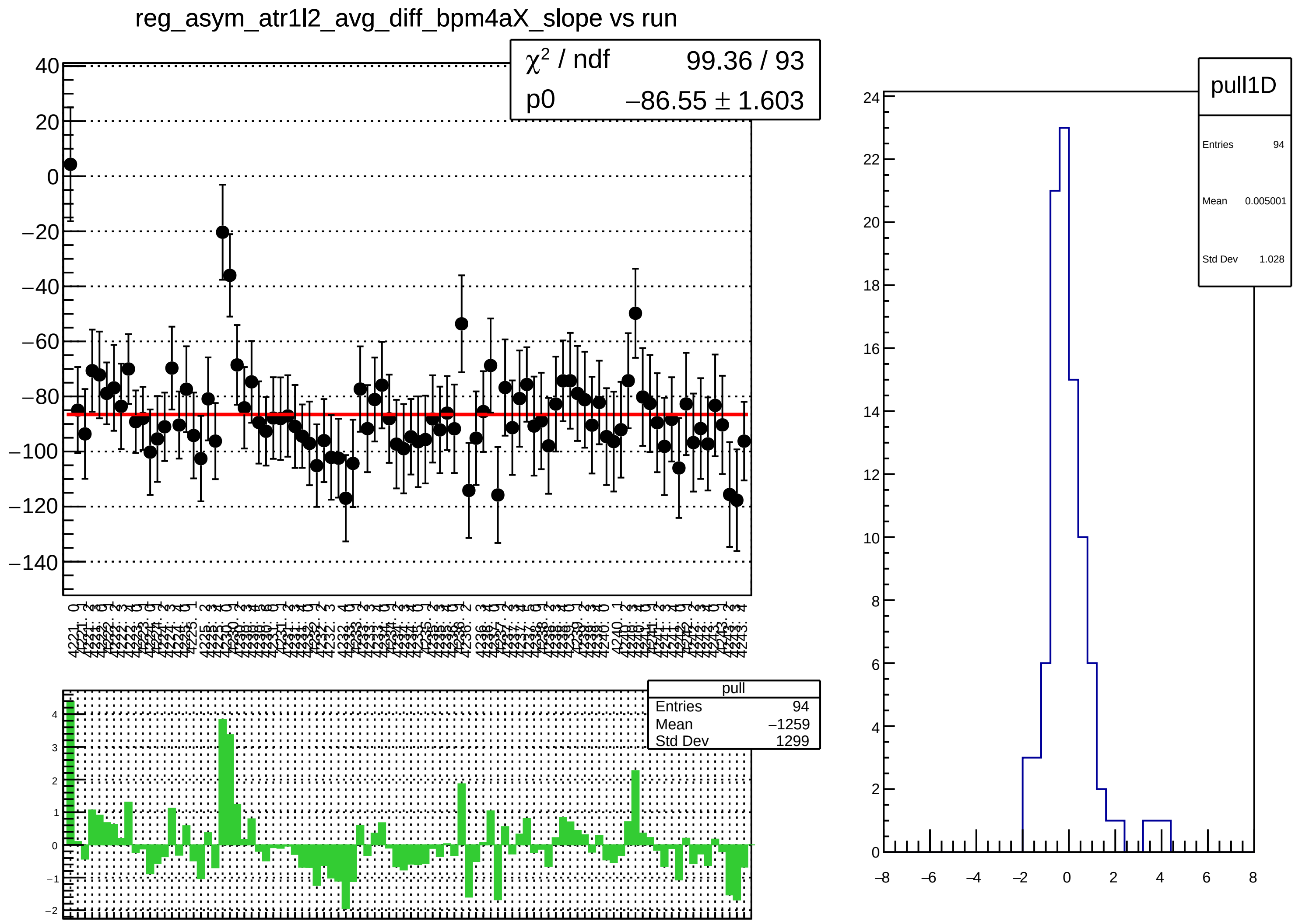
reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 50.49 / 93
p0 97.29 ± 0.2211
pull
Entries 94
Mean 324.9
Std Dev 273.5
pull1D
Entries 94
Mean 0.03545
Std Dev 0.732



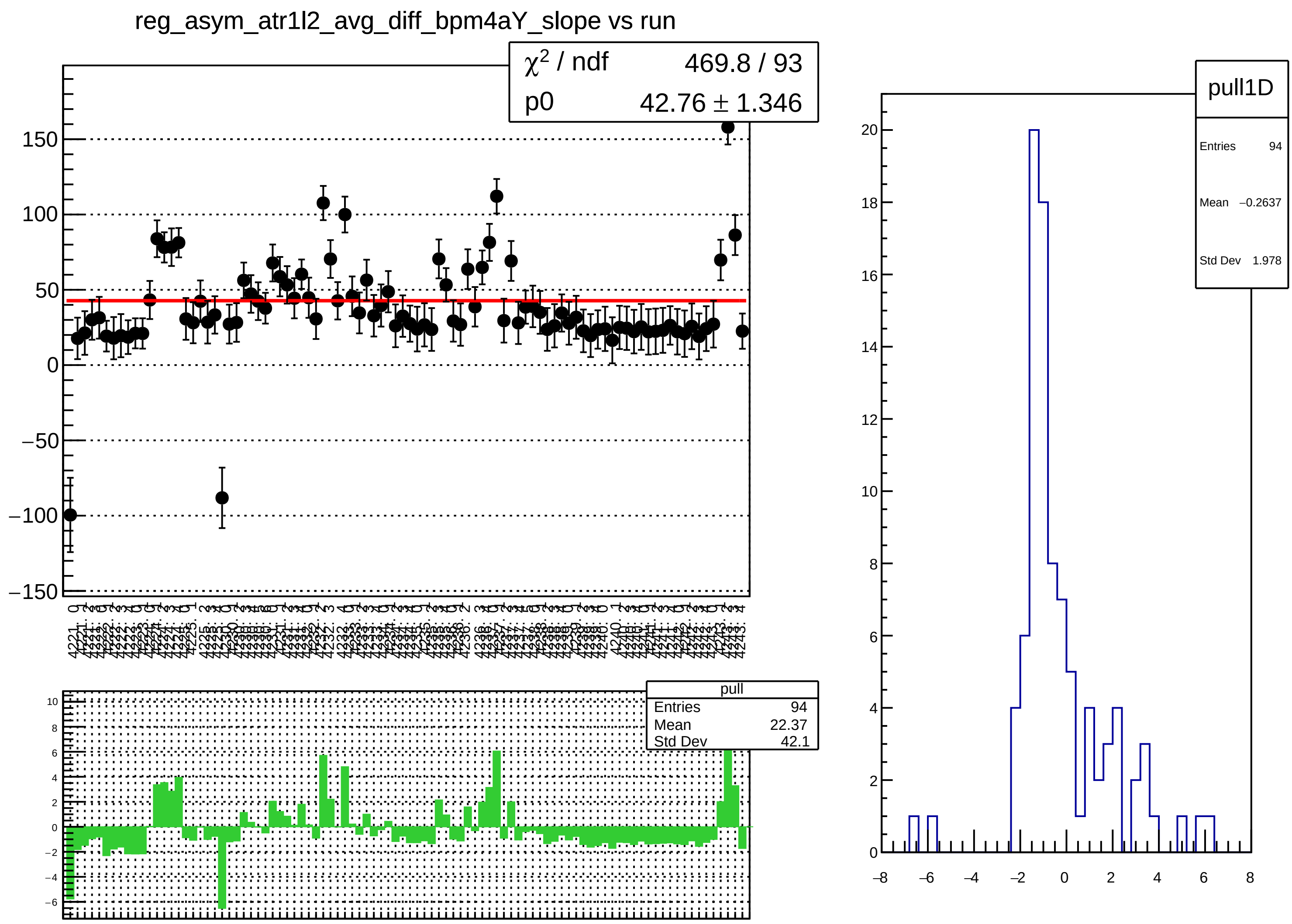
reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 260.4 / 93
p0 −25.38 ± 1.485
pull
Entries 94
Mean 51.78
Std Dev 51.15
pull1D
Entries 94
Mean −0.1015
Std Dev 1.661



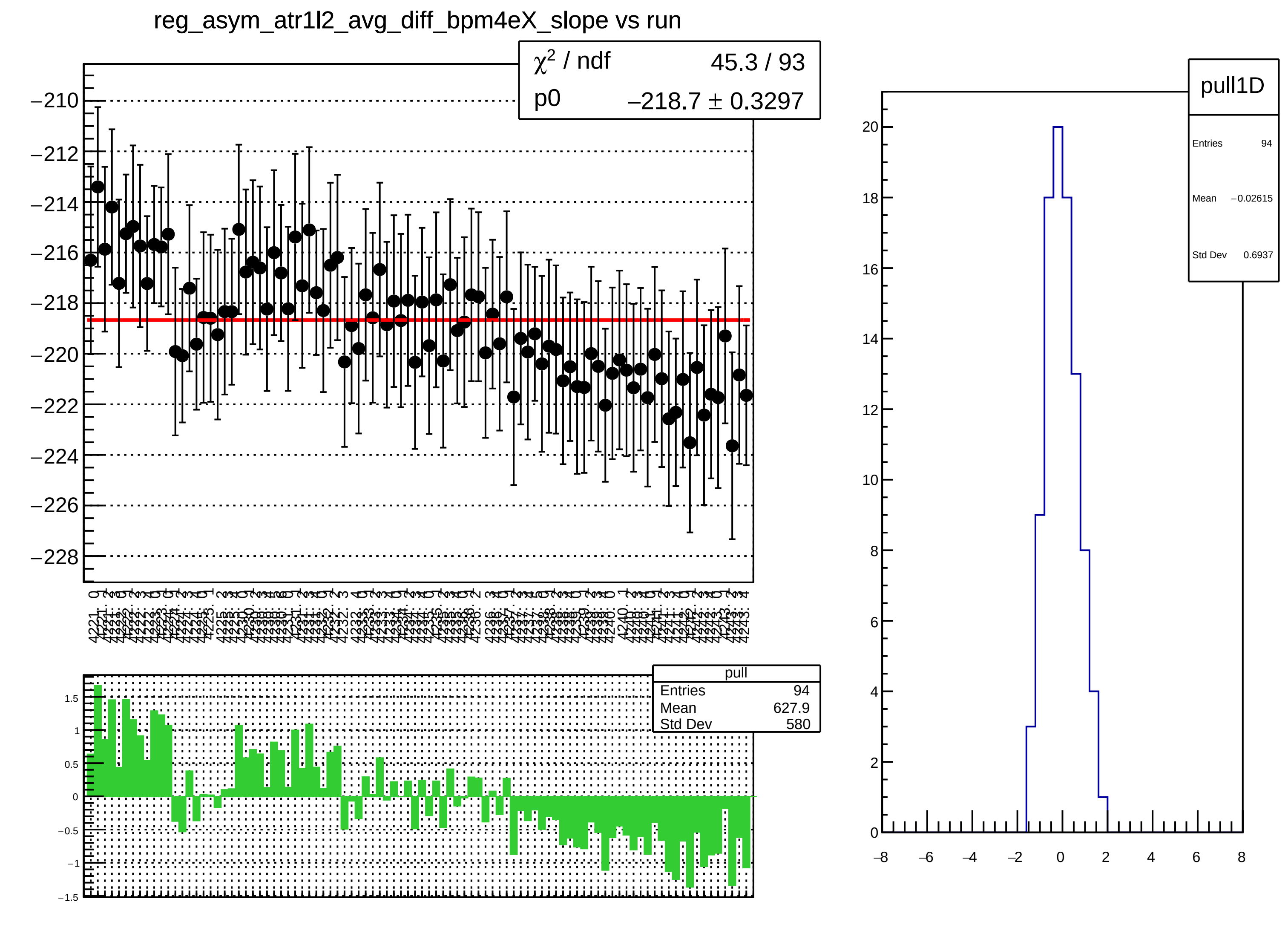
reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ^2 / ndf 68.04 / 93
p0 245.7 ± 0.2833
pull
Entries 94
Mean 1819
Std Dev 1771
pull1D
Entries 94
Mean 0.01048
Std Dev 0.8507



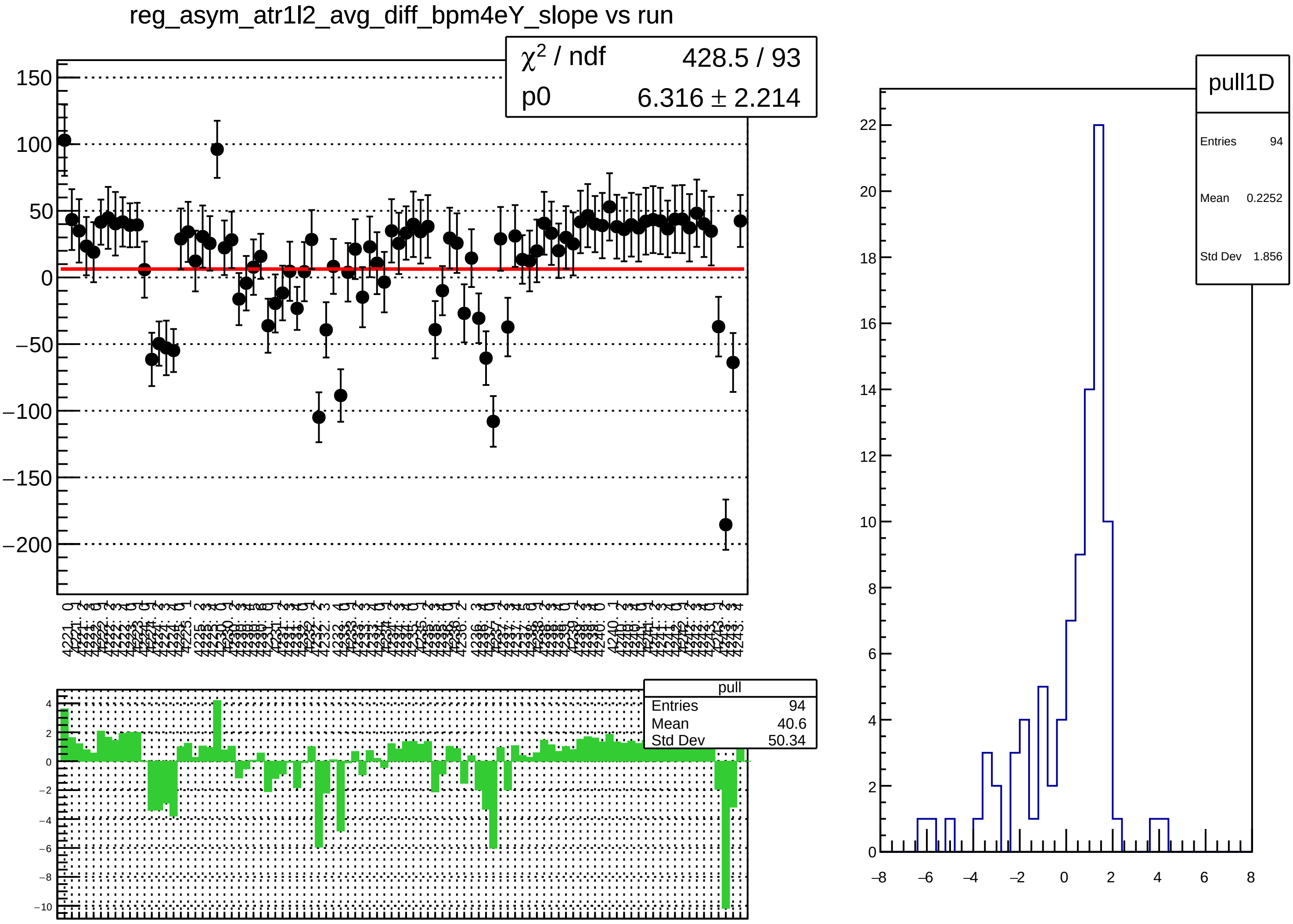
reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 99.36 / 93
p0 −86.55 ± 1.603
pull
Entries 94
Mean −1259
Std Dev 1299
pull1D
Entries 94
Mean 0.005001
Std Dev 1.028



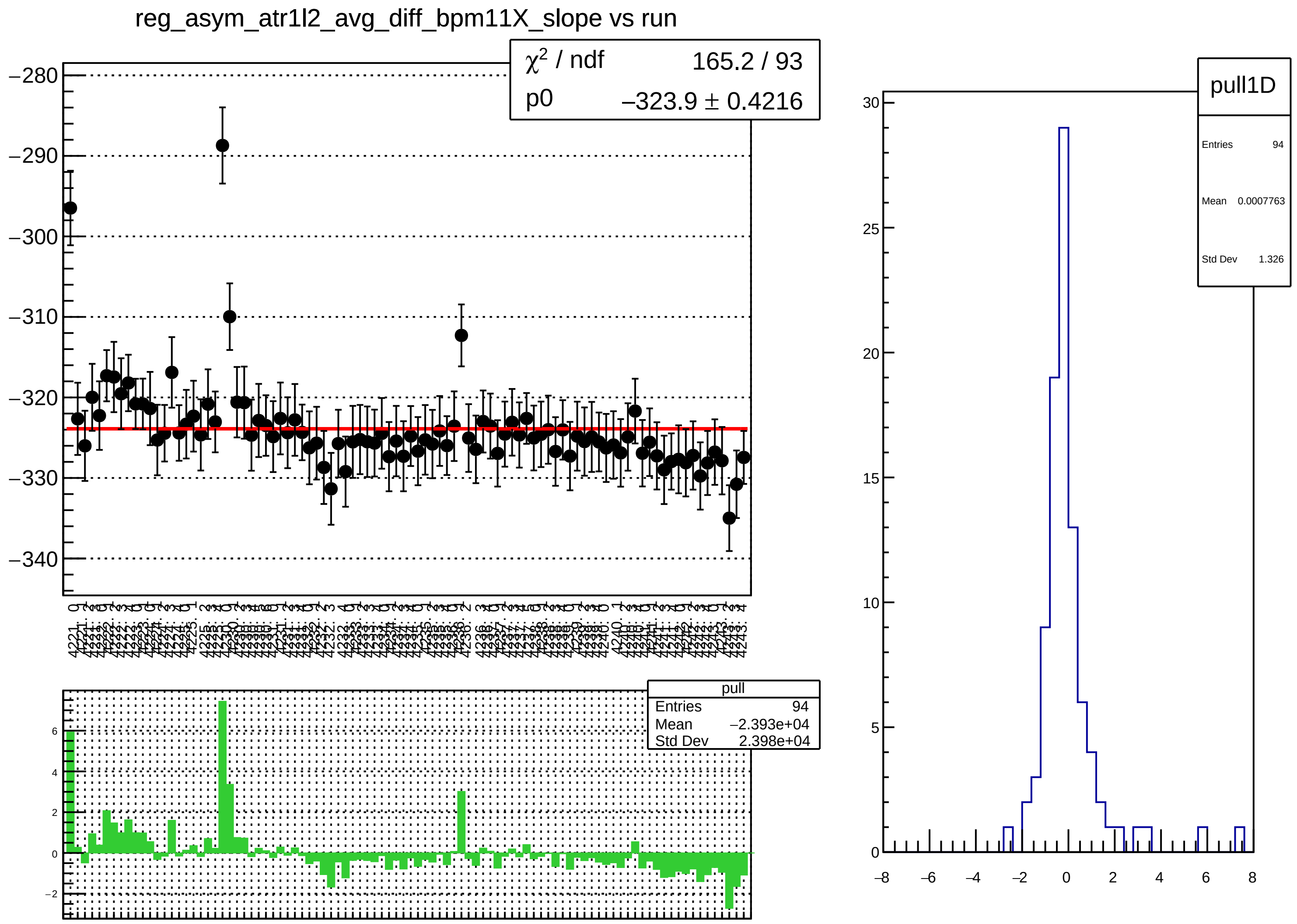
reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 469.8 / 93
p0 42.76 ± 1.346
pull
Entries 94
Mean 22.37
Std Dev 42.1
pull1D
Entries 94
Mean −0.2637
Std Dev 1.978



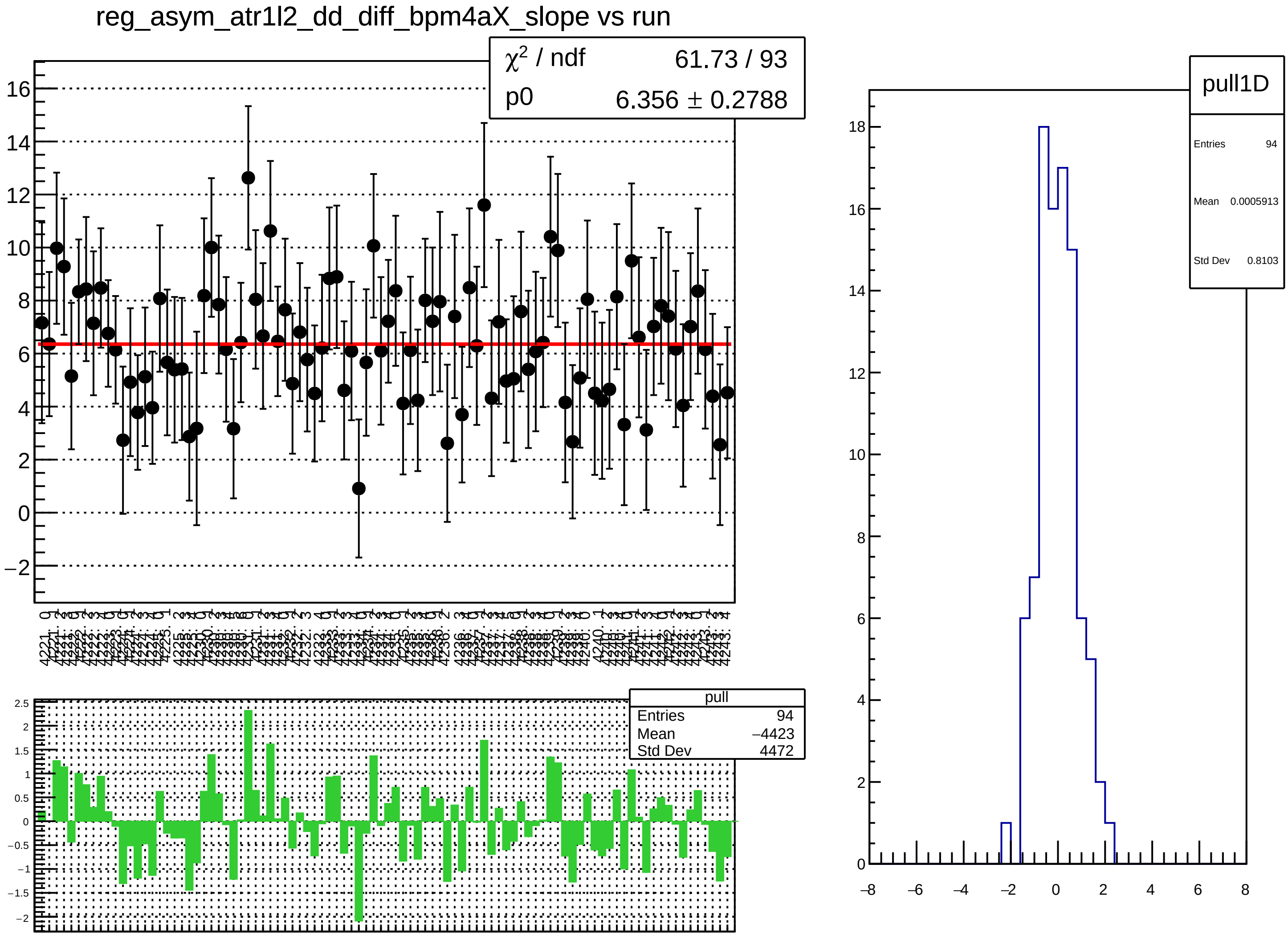
reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 45.3 / 93
p0 −218.7 ± 0.3297
pull
Entries 94
Mean 627.9
Std Dev 580
pull1D
Entries 94
Mean −0.02615
Std Dev 0.6937



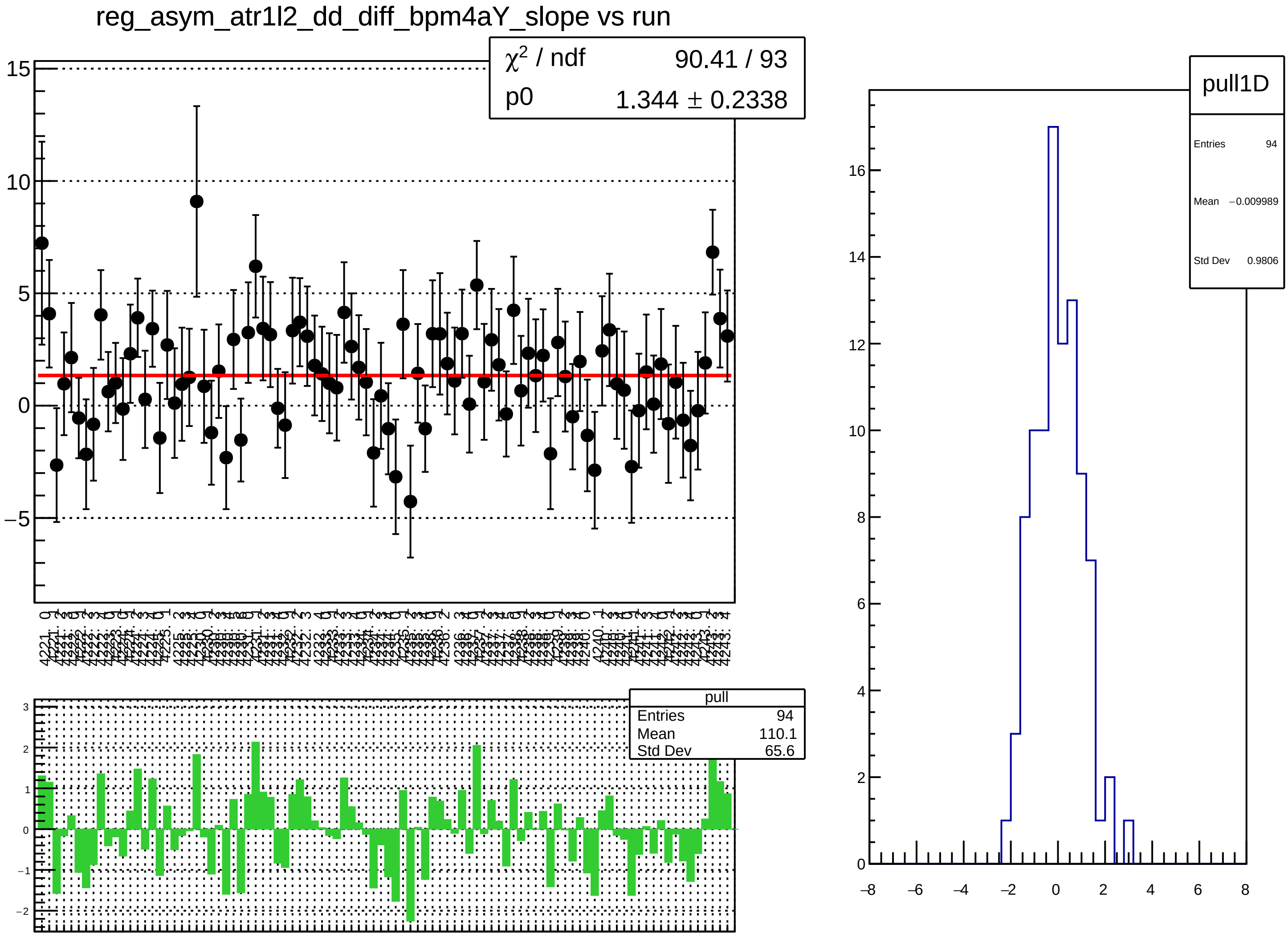
reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 428.5 / 93
p0 6.316 ± 2.214
pull
Entries 94
Mean 40.6
Std Dev 50.34
pull1D
Entries 94
Mean 0.2252
Std Dev 1.856



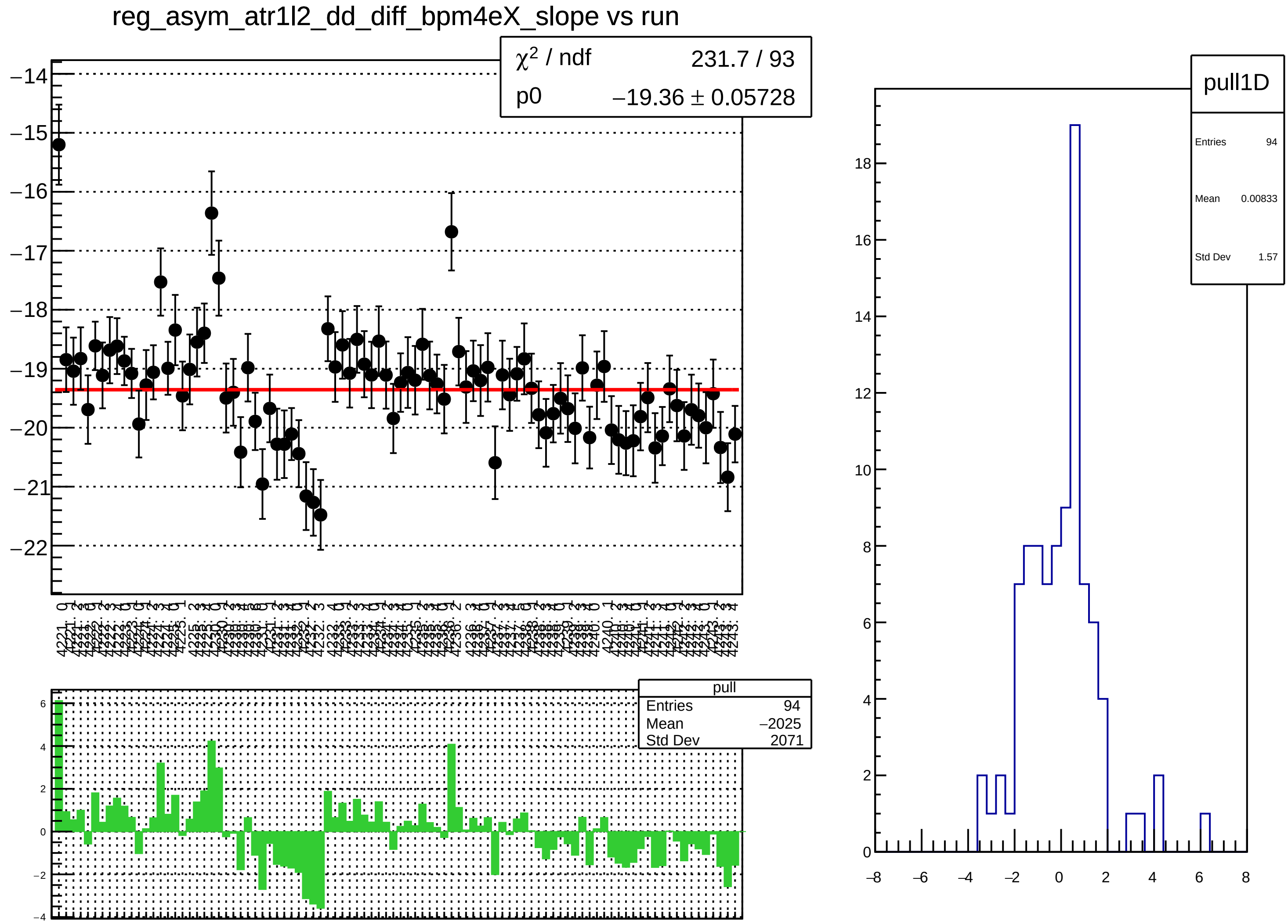
reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ2 / ndf 165.2 / 93
p0 −323.9 ± 0.4216
pull
Entries 94
Mean −2.393e+04
Std Dev 2.398e+04
pull1D
Entries 94
Mean 0.0007763
Std Dev 1.326



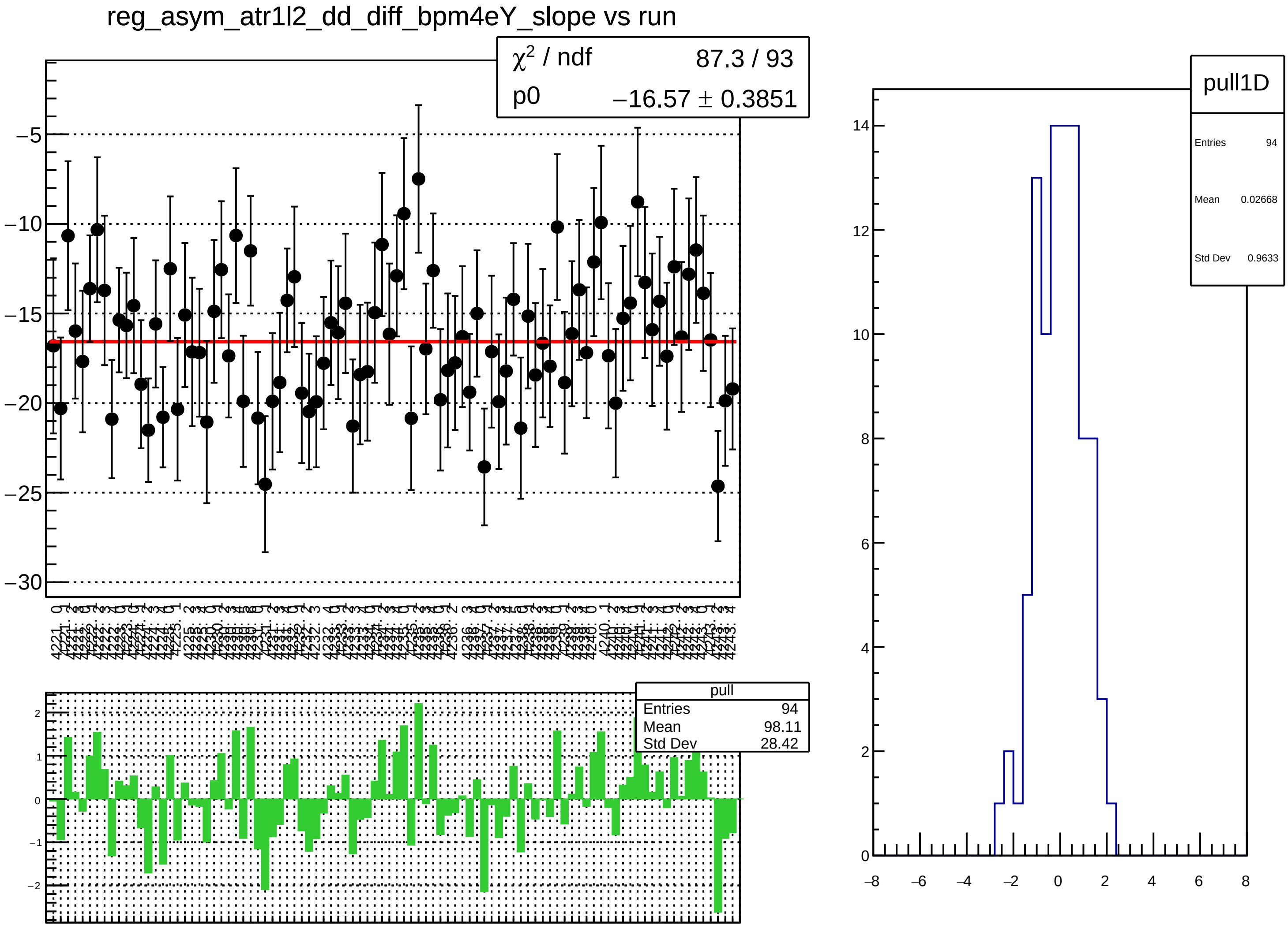
reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 61.73 / 93
p0 6.356 ± 0.2788
pull
Entries 94
Mean −4423
Std Dev 4472
pull1D
Entries 94
Mean 0.0005913
Std Dev 0.8103



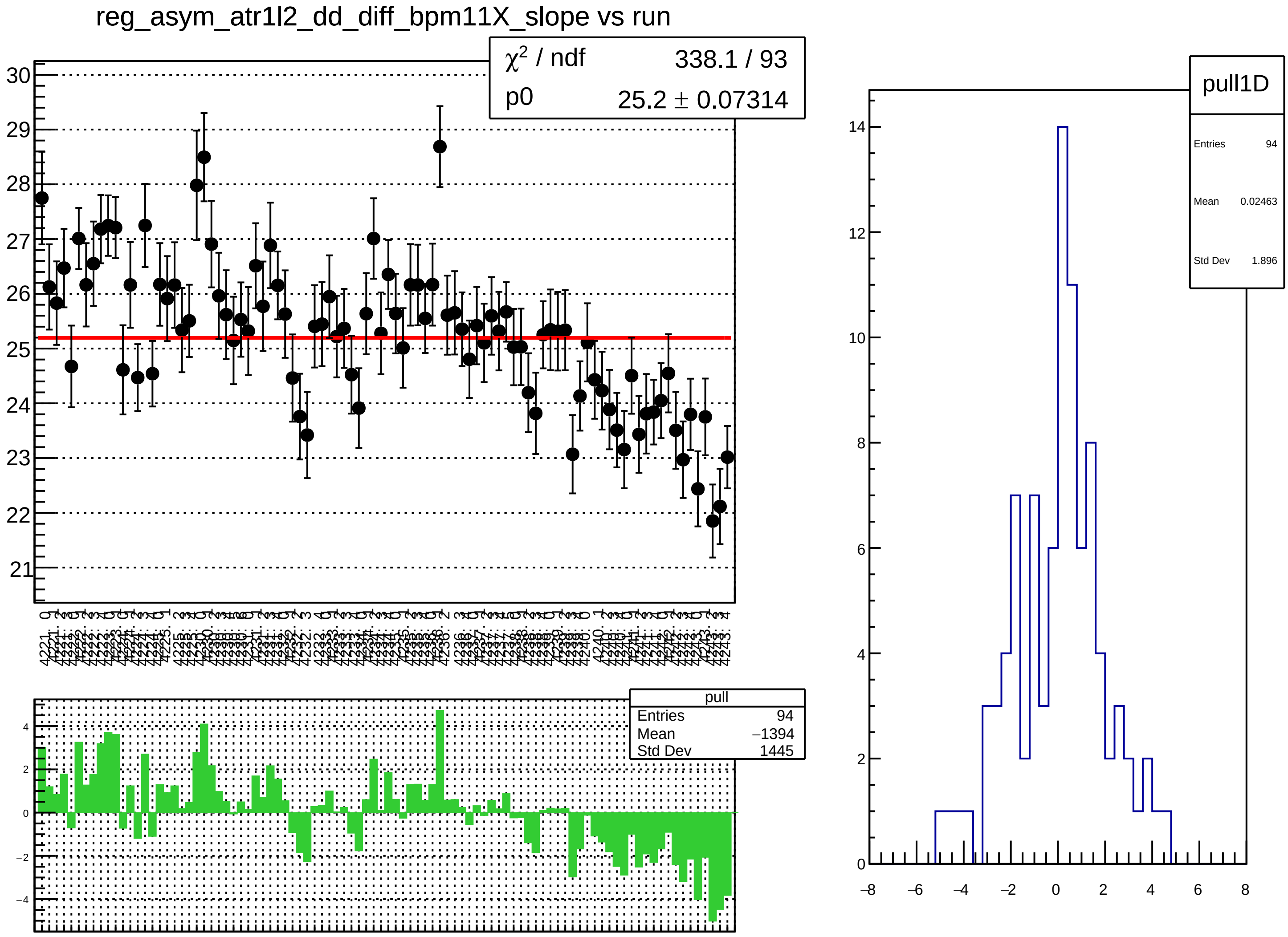
reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ2 / ndf 90.41 / 93
p0 1.344 ± 0.2338
pull
Entries 94
Mean 110.1
Std Dev 65.6
pull1D
Entries 94
Mean −0.009989
Std Dev 0.9806



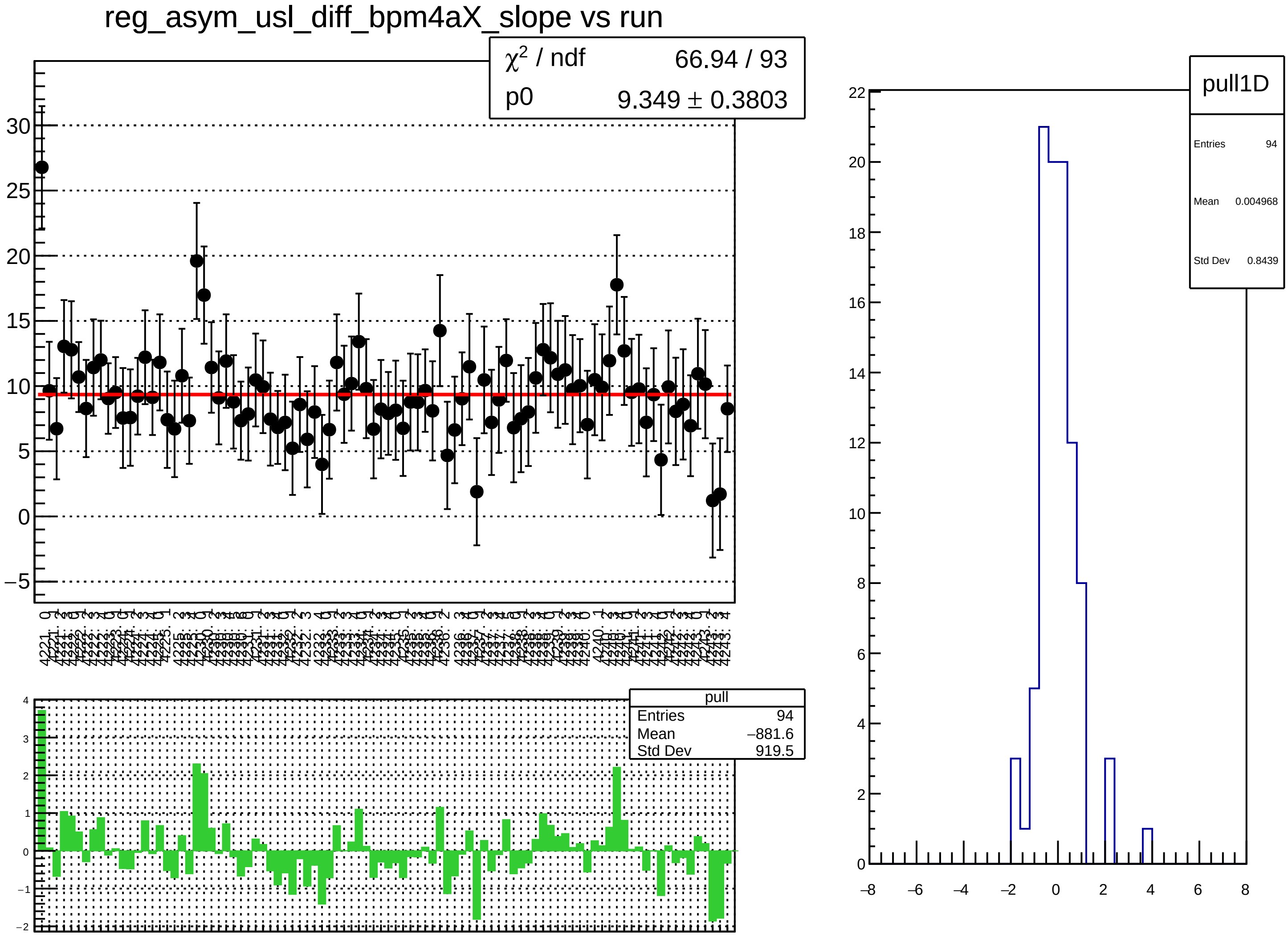
reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 231.7 / 93
p0 −19.36 ± 0.05728
pull
Entries 94
Mean −2025
Std Dev 2071
pull1D
Entries 94
Mean 0.00833
Std Dev 1.57



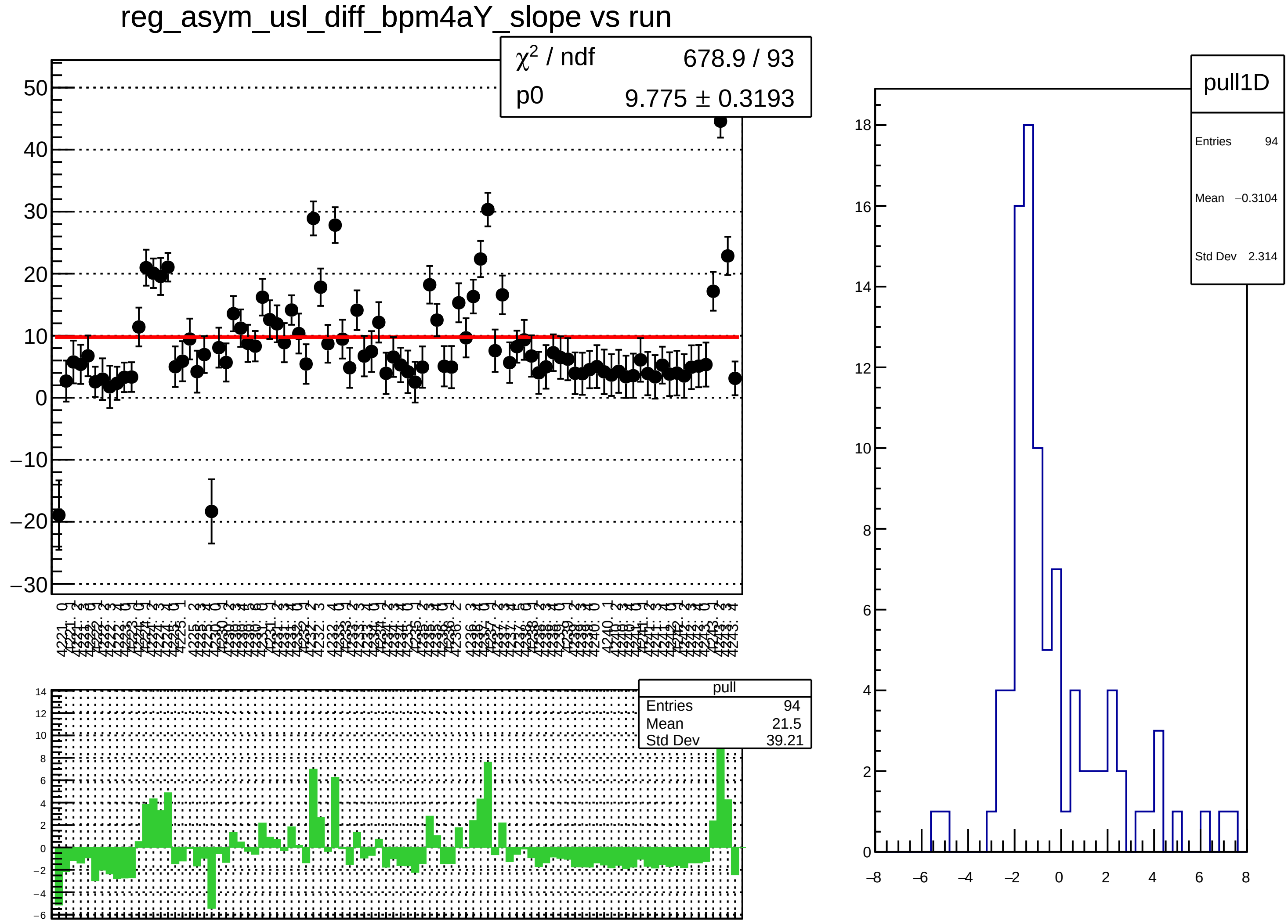
reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 87.3 / 93
p0 −16.57 ± 0.3851
−5
−10
−15
−20
−25
−30
pull
Entries 94
Mean 98.11
Std Dev 28.42
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.02668
Std Dev 0.9633
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



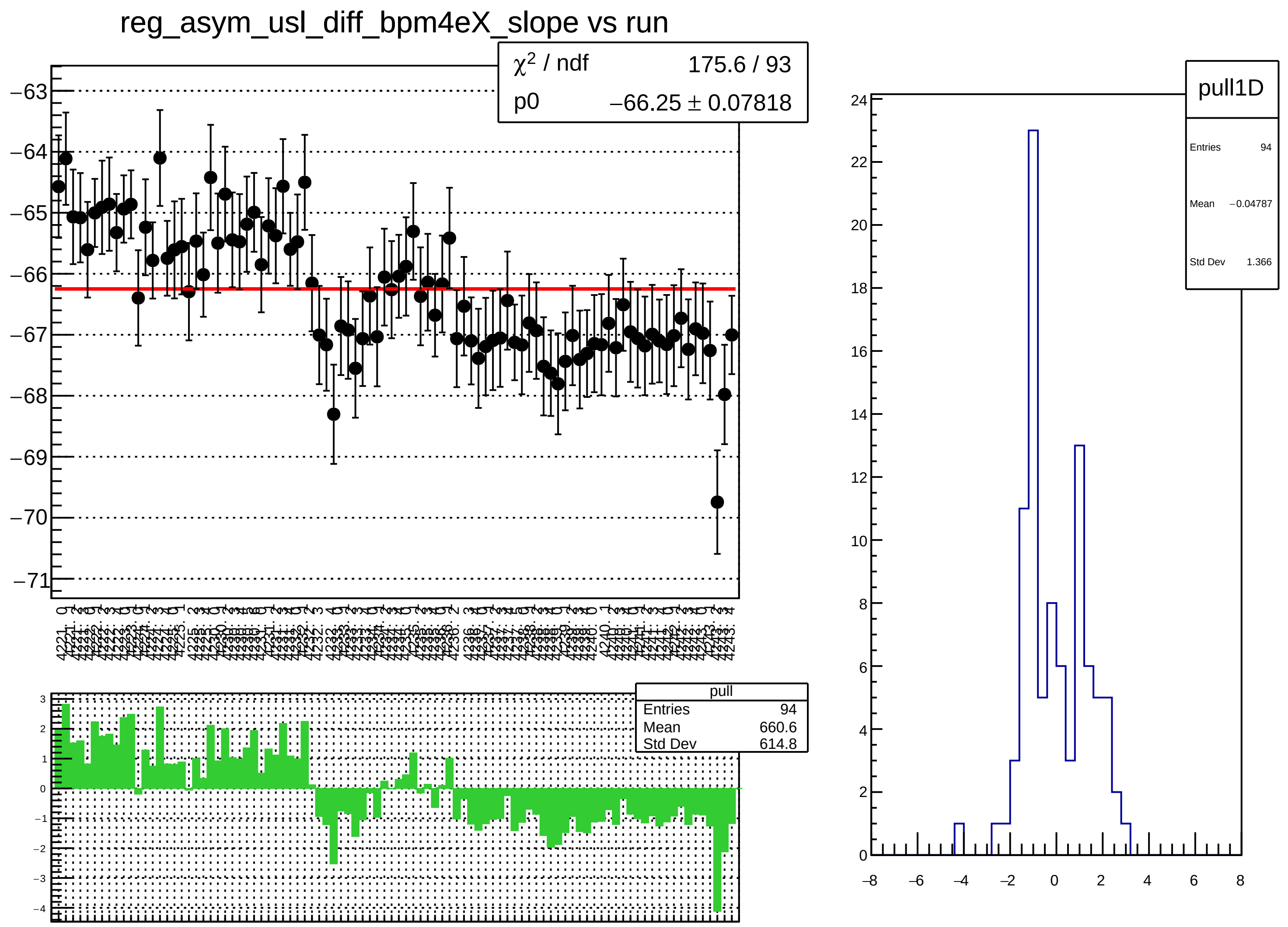
reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ^2 / ndf 338.1 / 93
p0 25.2 ± 0.07314
pull
Entries 94
Mean −1394
Std Dev 1445
pull1D
Entries 94
Mean 0.02463
Std Dev 1.896



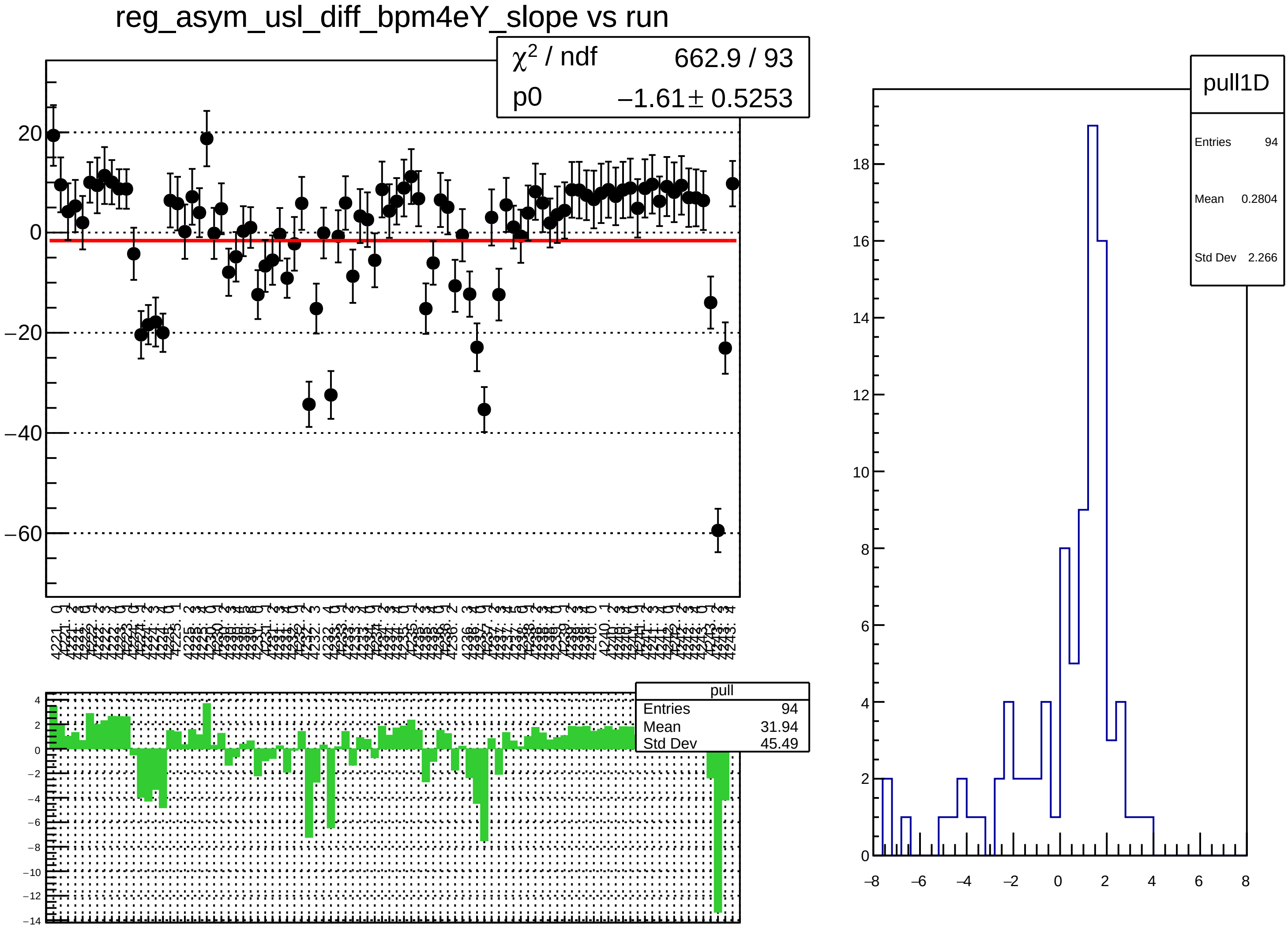
reg_asym_usl_diff_bpm4aX_slope vs run
χ^2 / ndf 66.94 / 93
p0 9.349 ± 0.3803
pull
Entries 94
Mean −881.6
Std Dev 919.5
pull1D
Entries 94
Mean 0.004968
Std Dev 0.8439



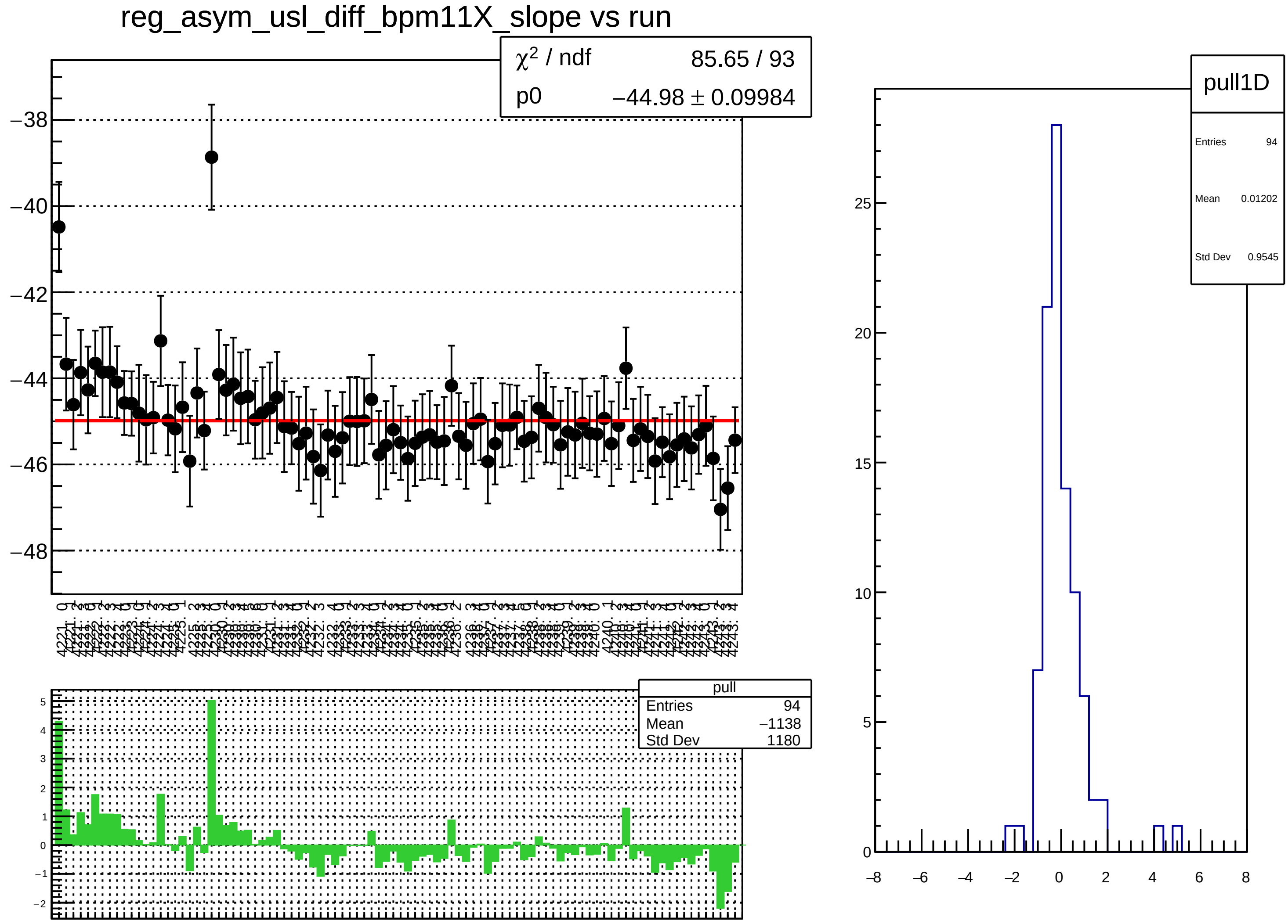
reg_asym_usl_diff_bpm4aY_slope vs run
χ2 / ndf 678.9 / 93
p0 9.775 ± 0.3193
pull
Entries 94
Mean 21.5
Std Dev 39.21
pull1D
Entries 94
Mean −0.3104
Std Dev 2.314

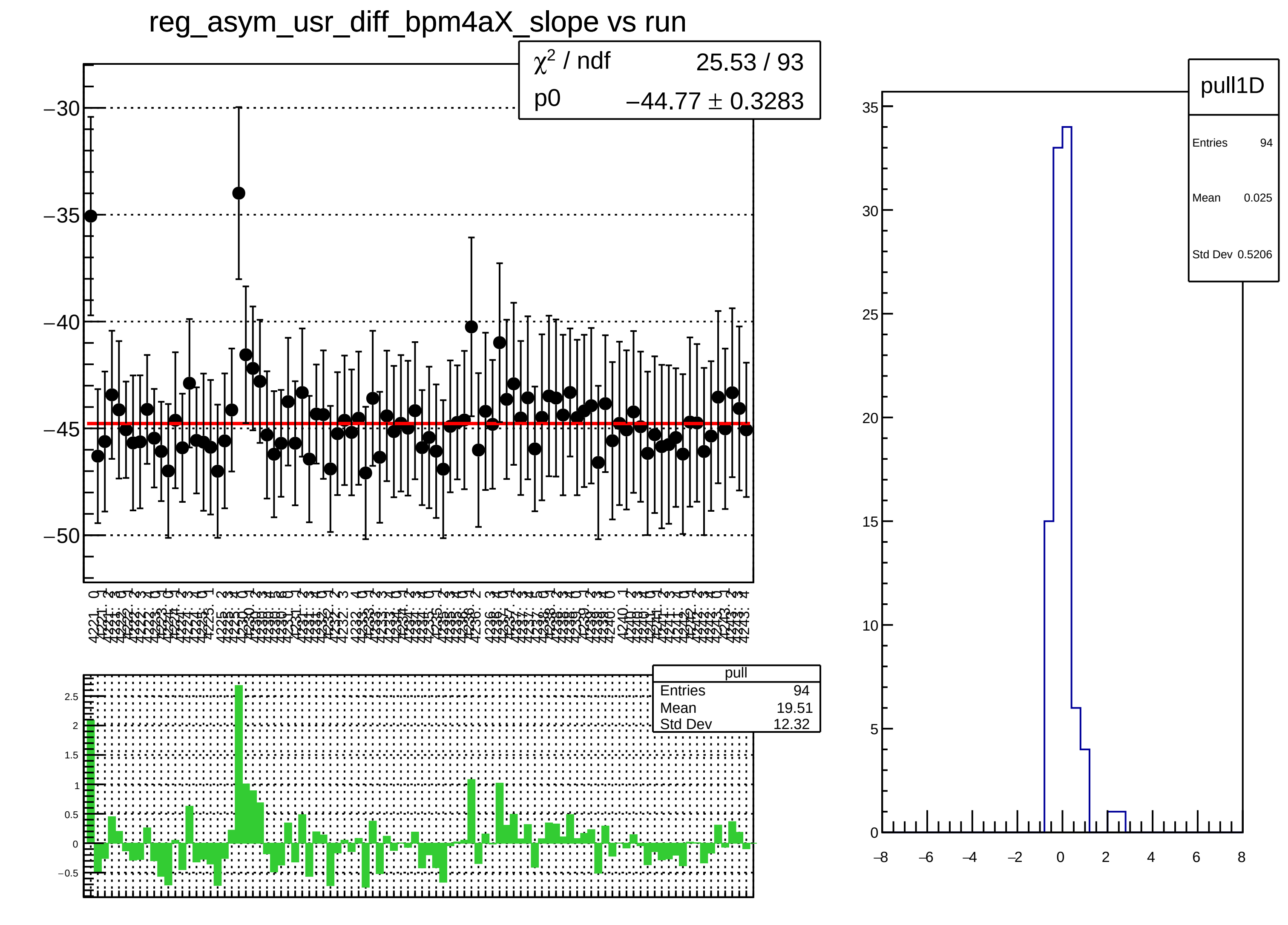


reg_asym_usl_diff_bpm4eX_slope vs run
χ^2 / ndf 175.6 / 93
p0 −66.25 ± 0.07818
pull
Entries 94
Mean 660.6
Std Dev 614.8
pull1D
Entries 94
Mean −0.04787
Std Dev 1.366

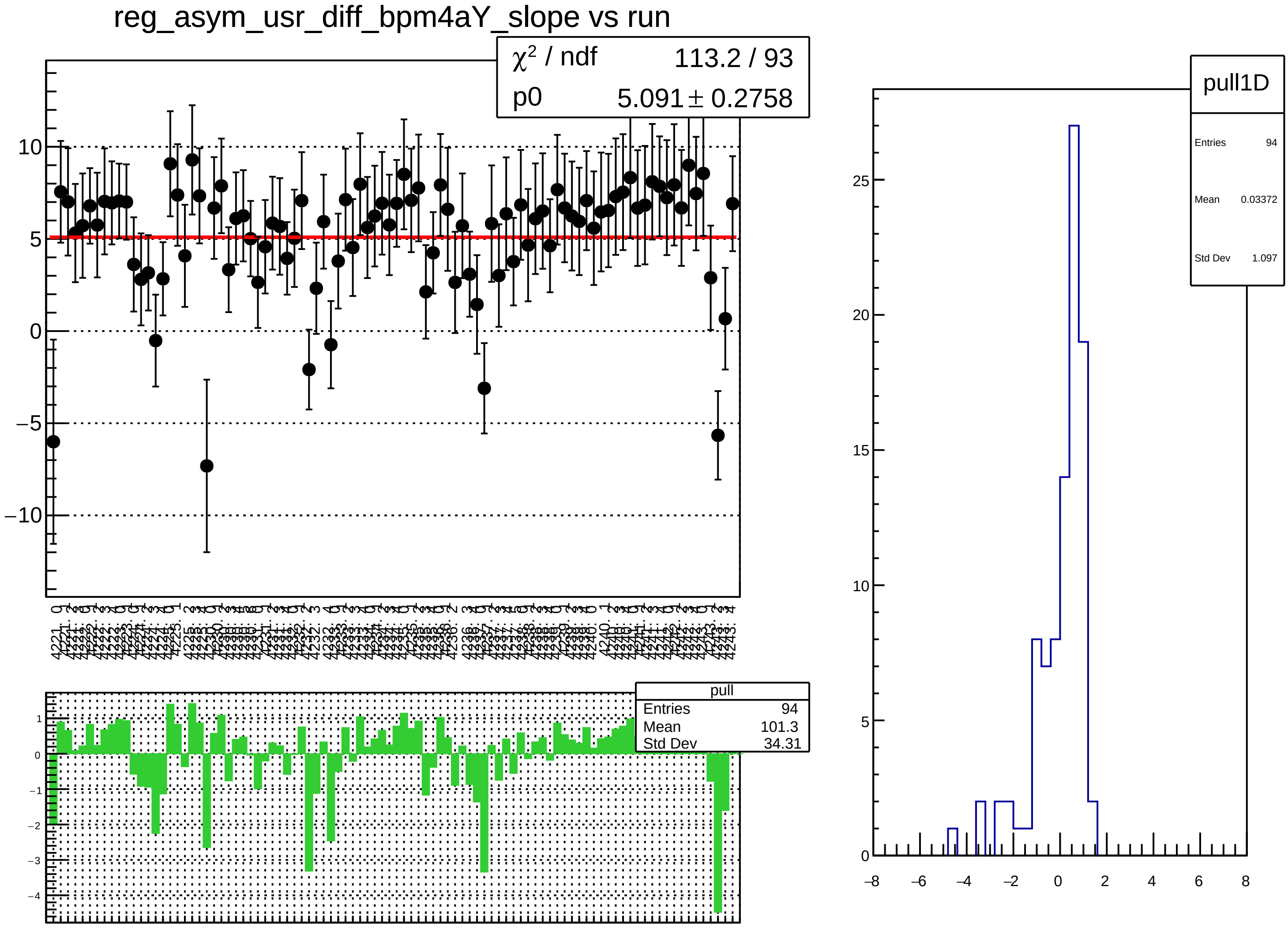


reg_asym_usl_diff_bpm4eY_slope vs run
χ^2 / ndf 662.9 / 93
p0 −1.61 ± 0.5253
pull
Entries 94
Mean 31.94
Std Dev 45.49
pull1D
Entries 94
Mean 0.2804
Std Dev 2.266

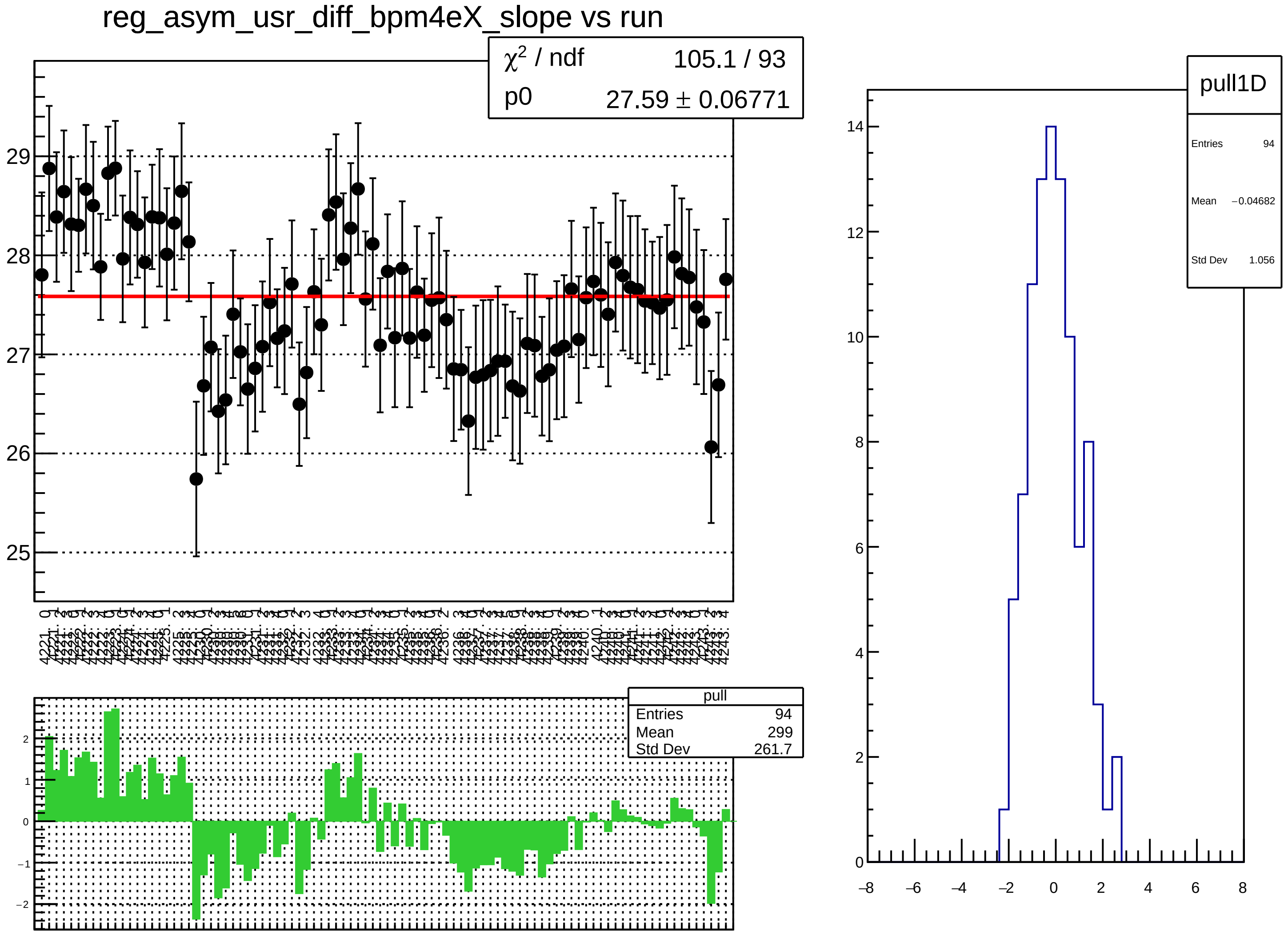

reg_asym_usl_diff_bpm11X_slope vs run
χ^2 / ndf 85.65 / 93
p0 −44.98 ± 0.09984
−38
−40
−42
−44
−46
−48
pull
Entries 94
Mean −1138
Std Dev 1180
5
4
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01202
Std Dev 0.9545
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



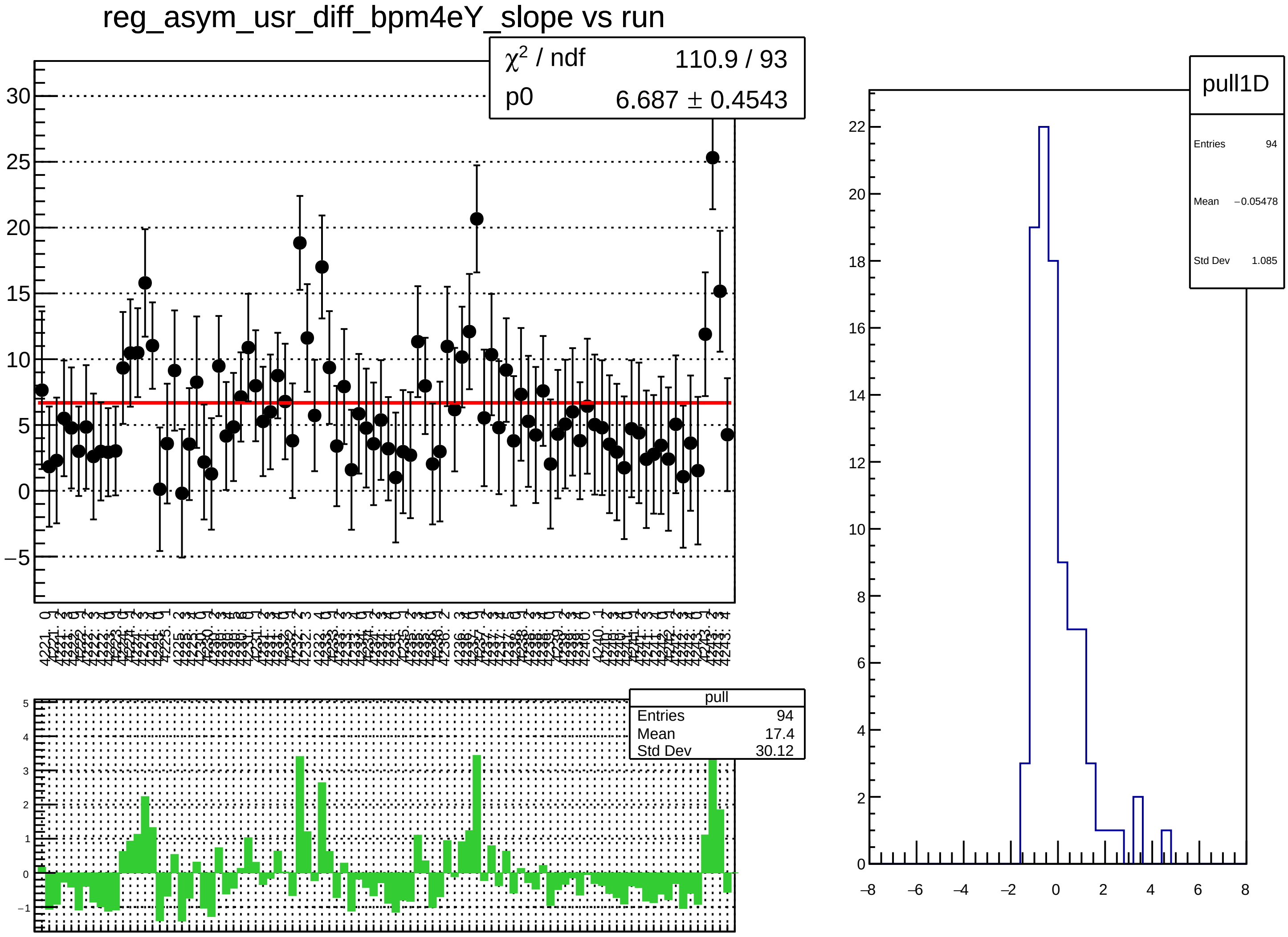
reg_asym_usr_diff_bpm4aX_slope vs run
χ^2 / ndf 25.53 / 93
p0 −44.77 ± 0.3283
pull
Entries 94
Mean 19.51
Std Dev 12.32
pull1D
Entries 94
Mean 0.025
Std Dev 0.5206



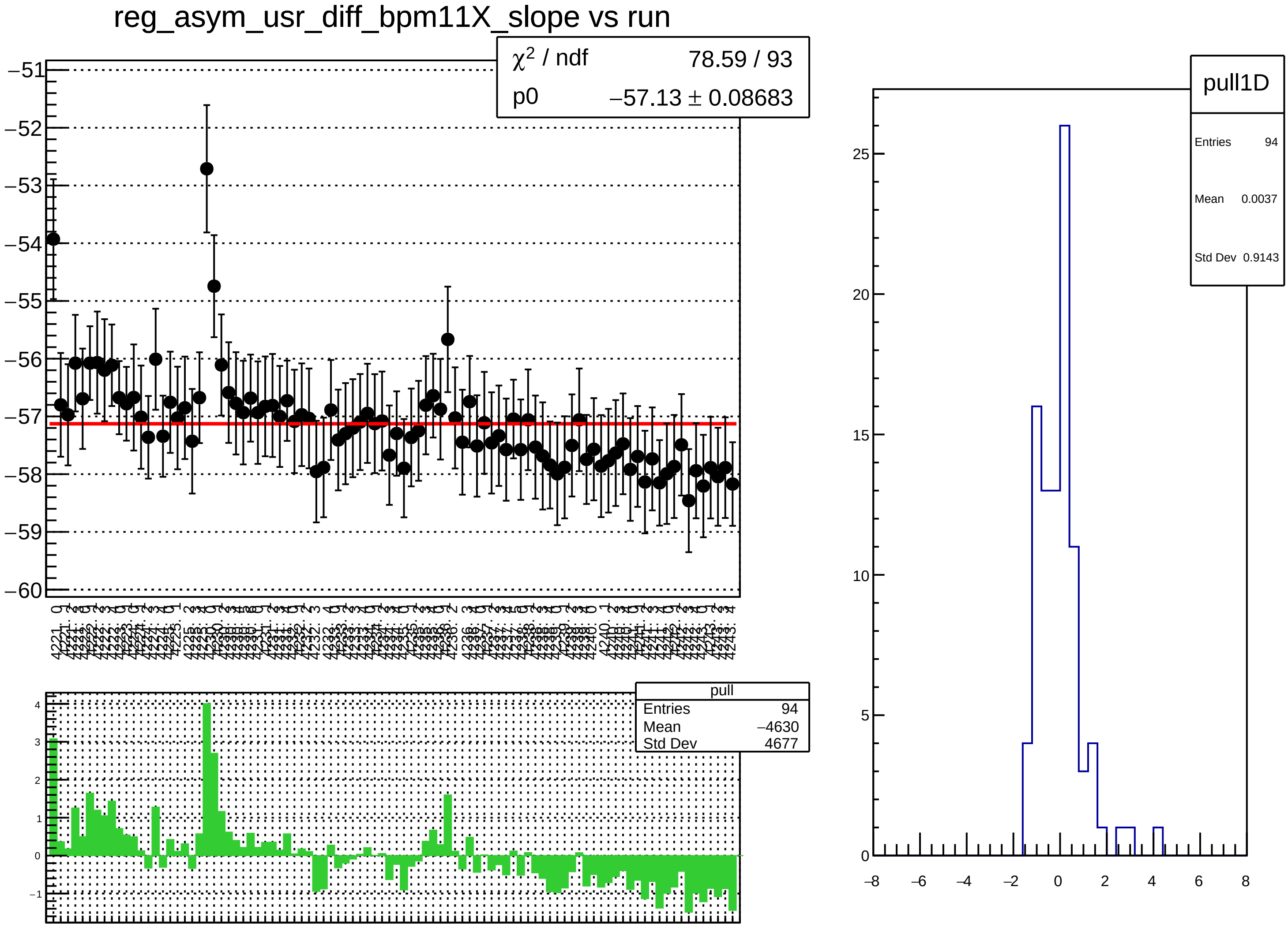
reg_asym_usr_diff_bpm4aY_slope vs run
χ2 / ndf 113.2 / 93
p0 5.091 ± 0.2758
pull
Entries 94
Mean 101.3
Std Dev 34.31
pull1D
Entries 94
Mean 0.03372
Std Dev 1.097



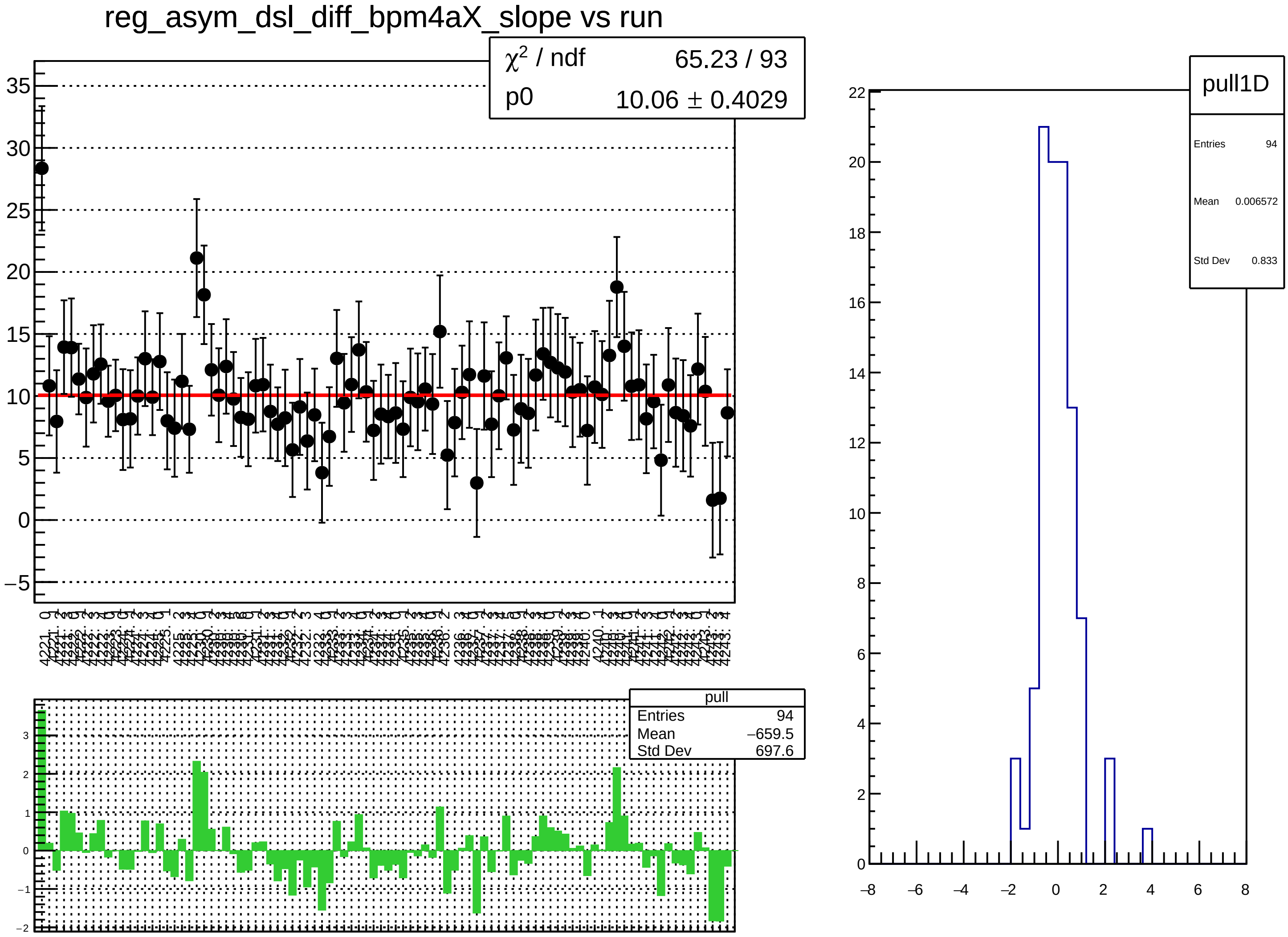
reg_asym_usr_diff_bpm4eX_slope vs run
χ^2 / ndf 105.1 / 93
p0 27.59 ± 0.06771
pull
Entries 94
Mean 299
Std Dev 261.7
pull1D
Entries 94
Mean −0.04682
Std Dev 1.056



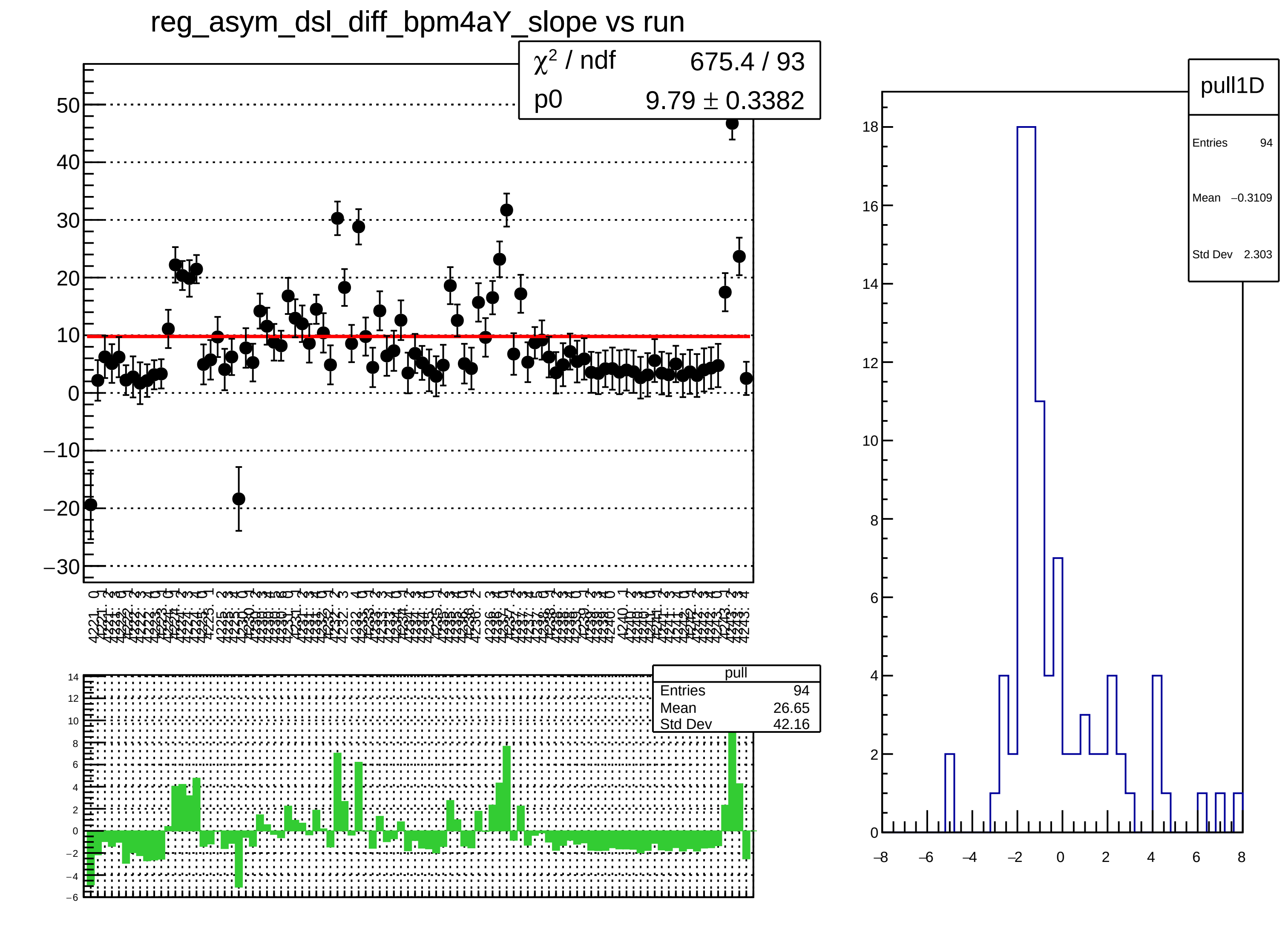
reg_asym_usr_diff_bpm4eY_slope vs run
χ^2 / ndf 110.9 / 93
p0 6.687 ± 0.4543
pull
Entries 94
Mean 17.4
Std Dev 30.12
pull1D
Entries 94
Mean −0.05478
Std Dev 1.085



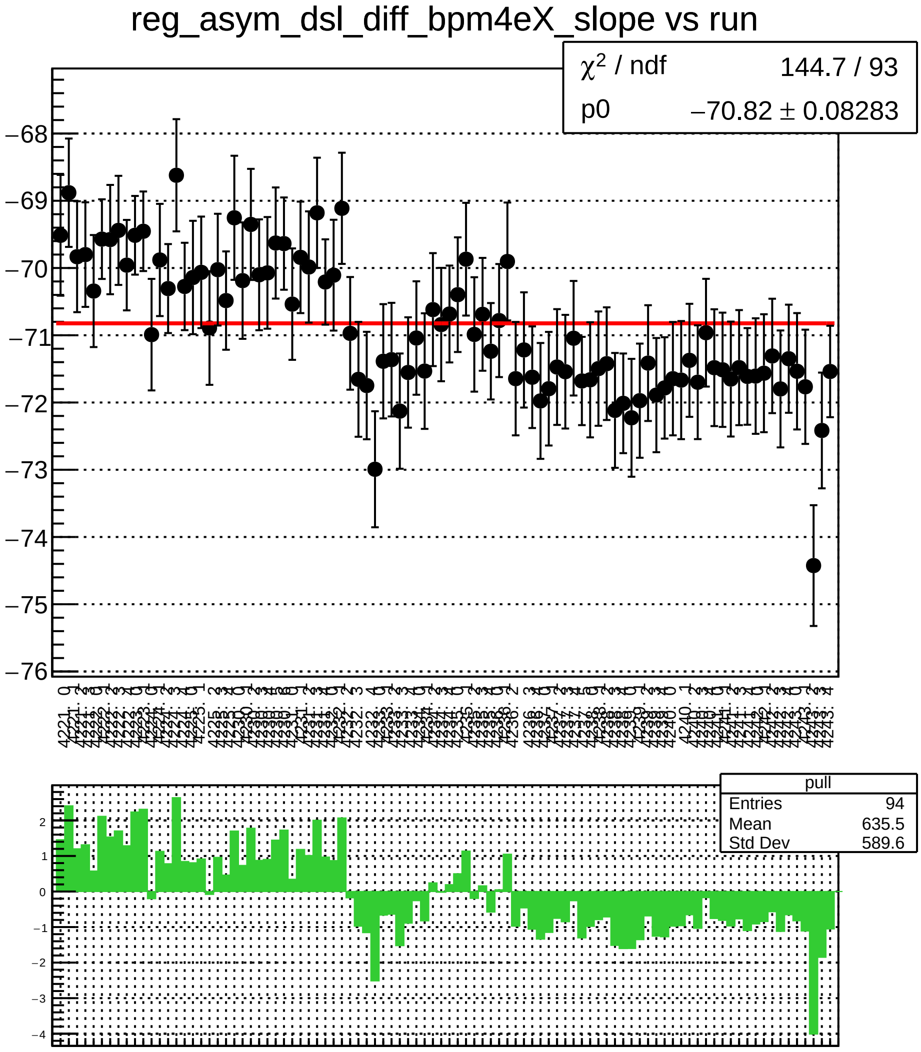
reg_asym_usr_diff_bpm11X_slope vs run
χ2 / ndf 78.59 / 93
p0 −57.13 ± 0.08683
pull
Entries 94
Mean −4630
Std Dev 4677
pull1D
Entries 94
Mean 0.0037
Std Dev 0.9143



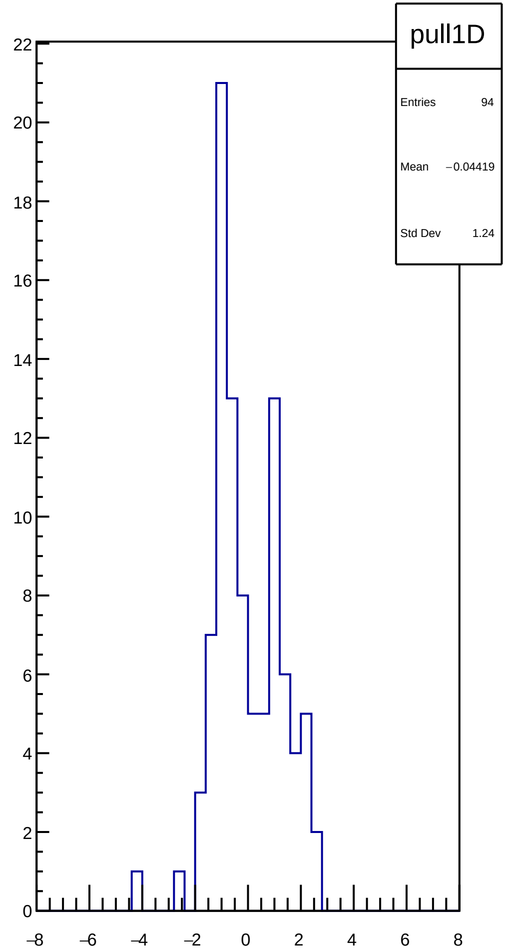
reg_asym_dsl_diff_bpm4aX_slope vs run
χ^2 / ndf 65.23 / 93
p0 10.06 ± 0.4029
pull
Entries 94
Mean −659.5
Std Dev 697.6
pull1D
Entries 94
Mean 0.006572
Std Dev 0.833



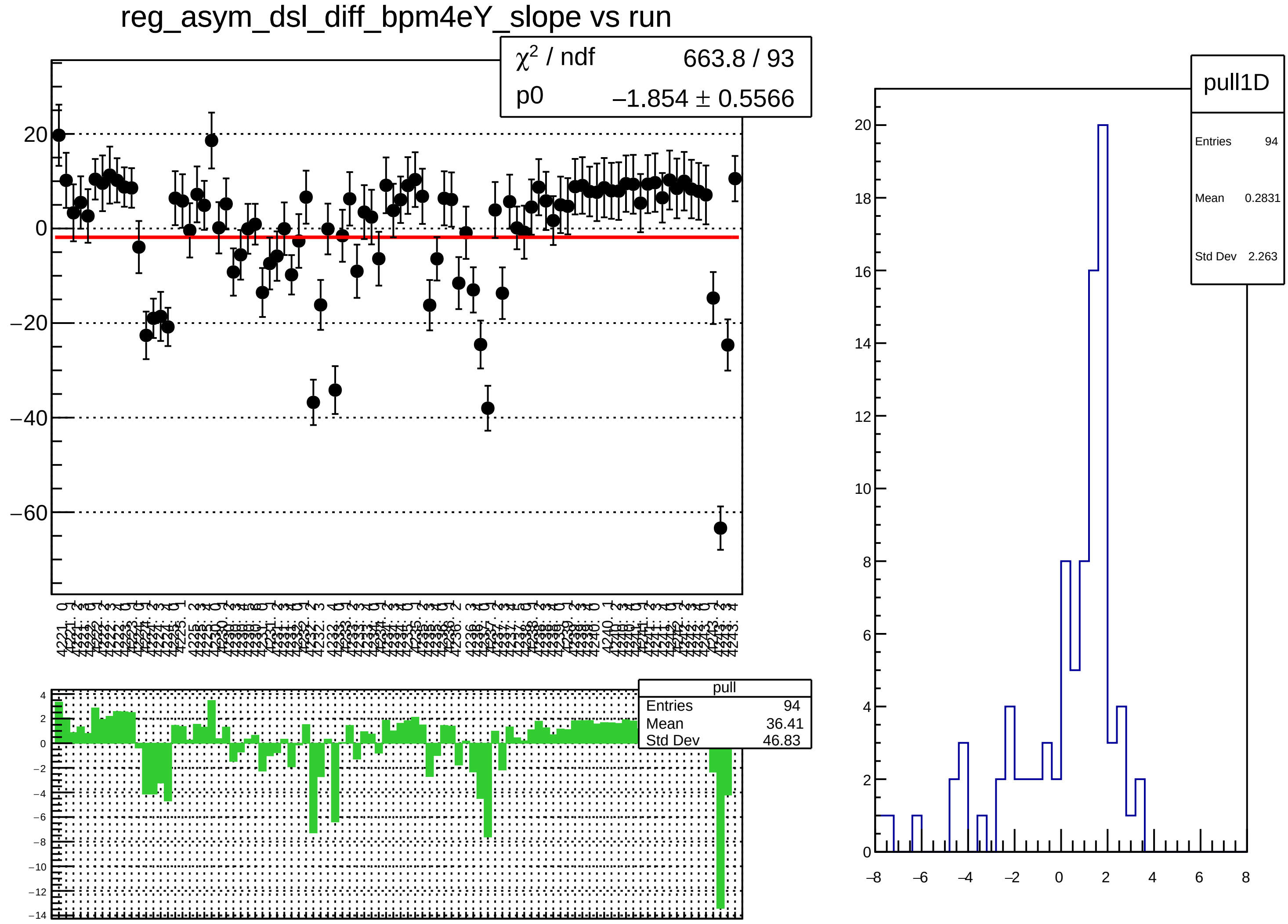
reg_asym_dsl_diff_bpm4aY_slope vs run
χ^2 / ndf 675.4 / 93
p0 9.79 ± 0.3382
pull
Entries 94
Mean 26.65
Std Dev 42.16
pull1D
Entries 94
Mean −0.3109
Std Dev 2.303



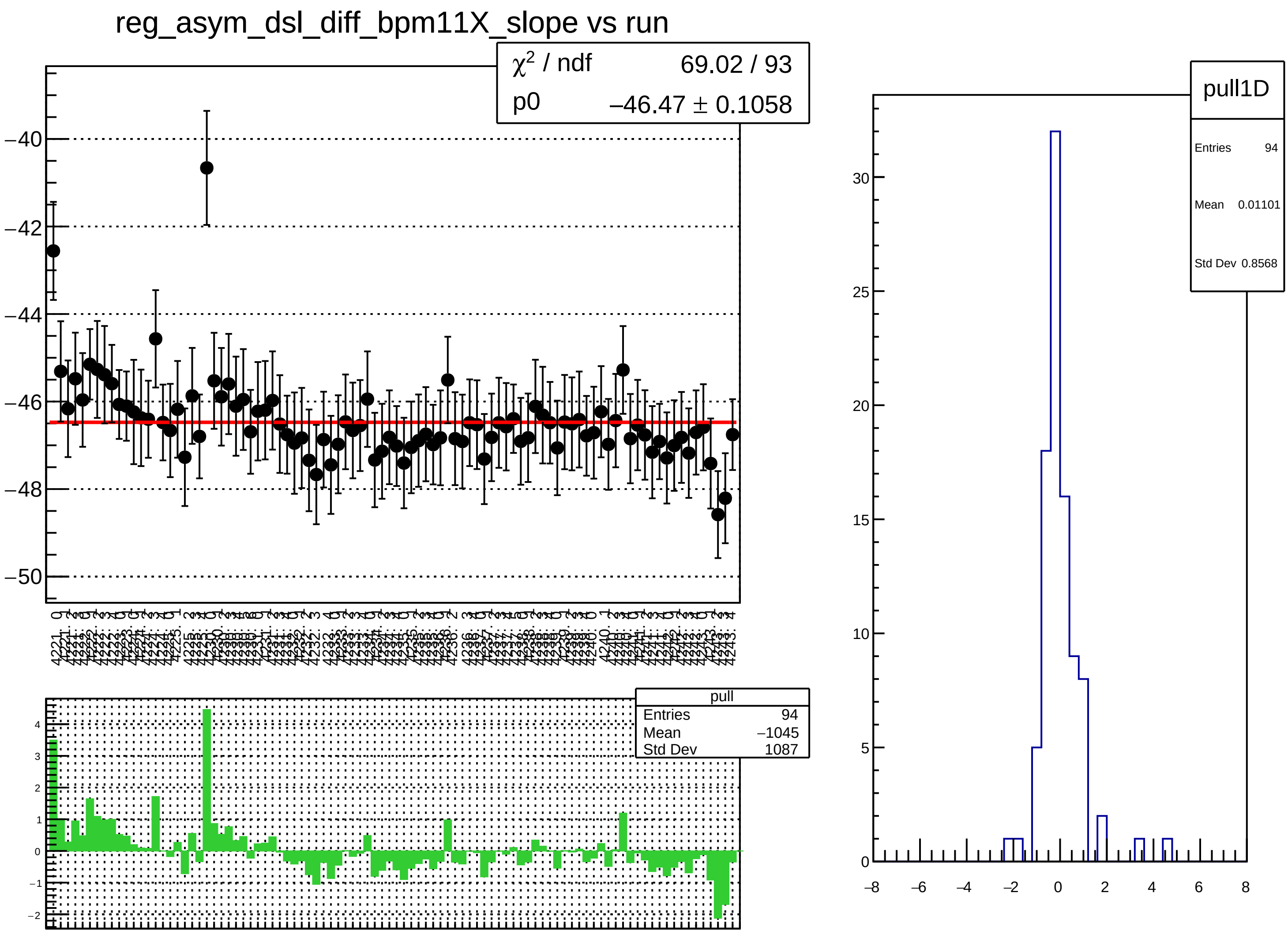
reg_asym_dsl_diff_bpm4eX_slope vs run
χ2 / ndf 144.7 / 93
p0 −70.82 ± 0.08283
pull
Entries 94
Mean 635.5
Std Dev 589.6



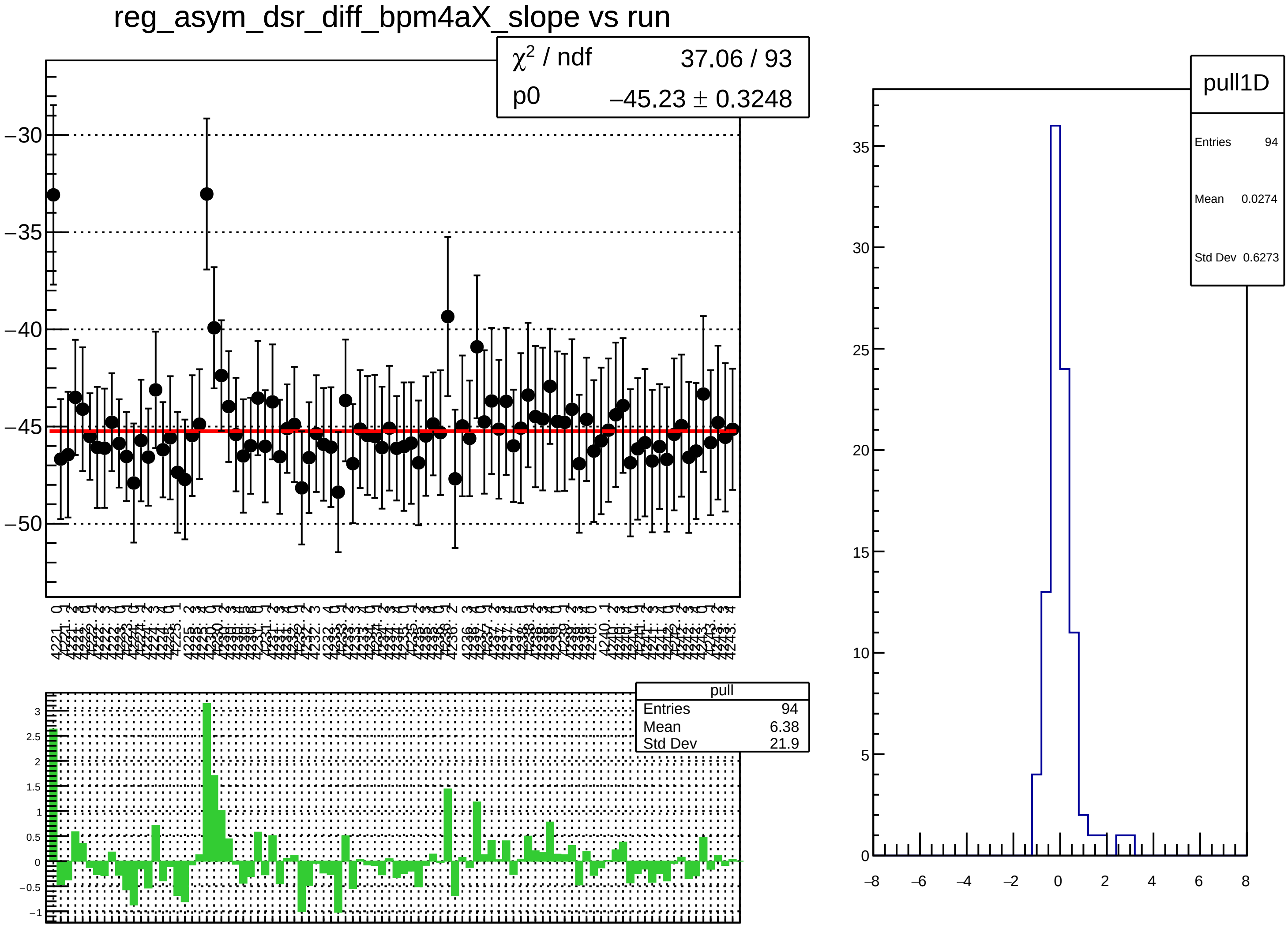
pull1D
Entries 94
Mean −0.04419
Std Dev 1.24



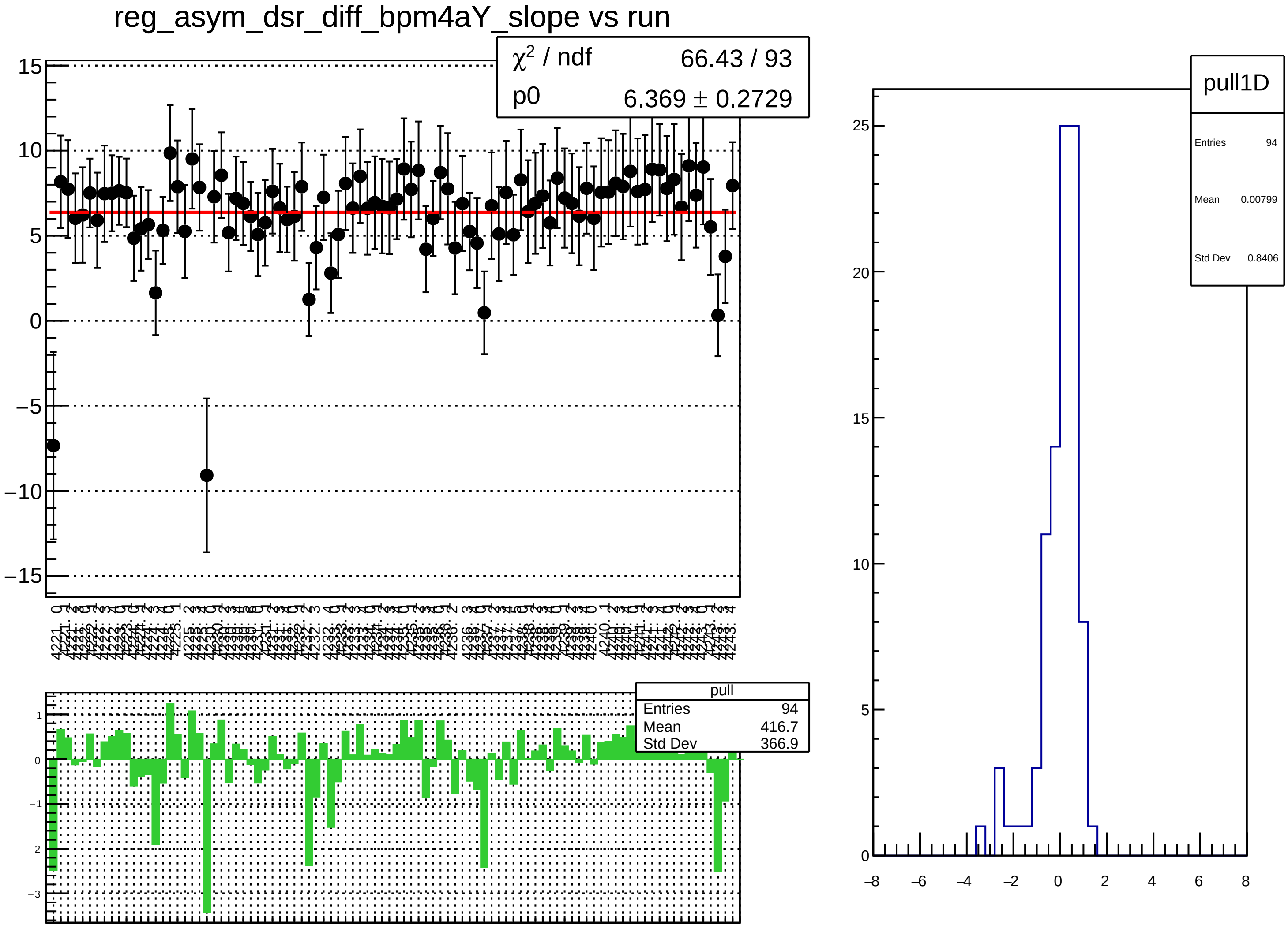
reg_asym_dsl_diff_bpm4eY_slope vs run
χ2 / ndf 663.8 / 93
p0 −1.854 ± 0.5566
20
0
−20
−40
−60
pull
Entries 94
Mean 36.41
Std Dev 46.83
pull1D
Entries 94
Mean 0.2831
Std Dev 2.263

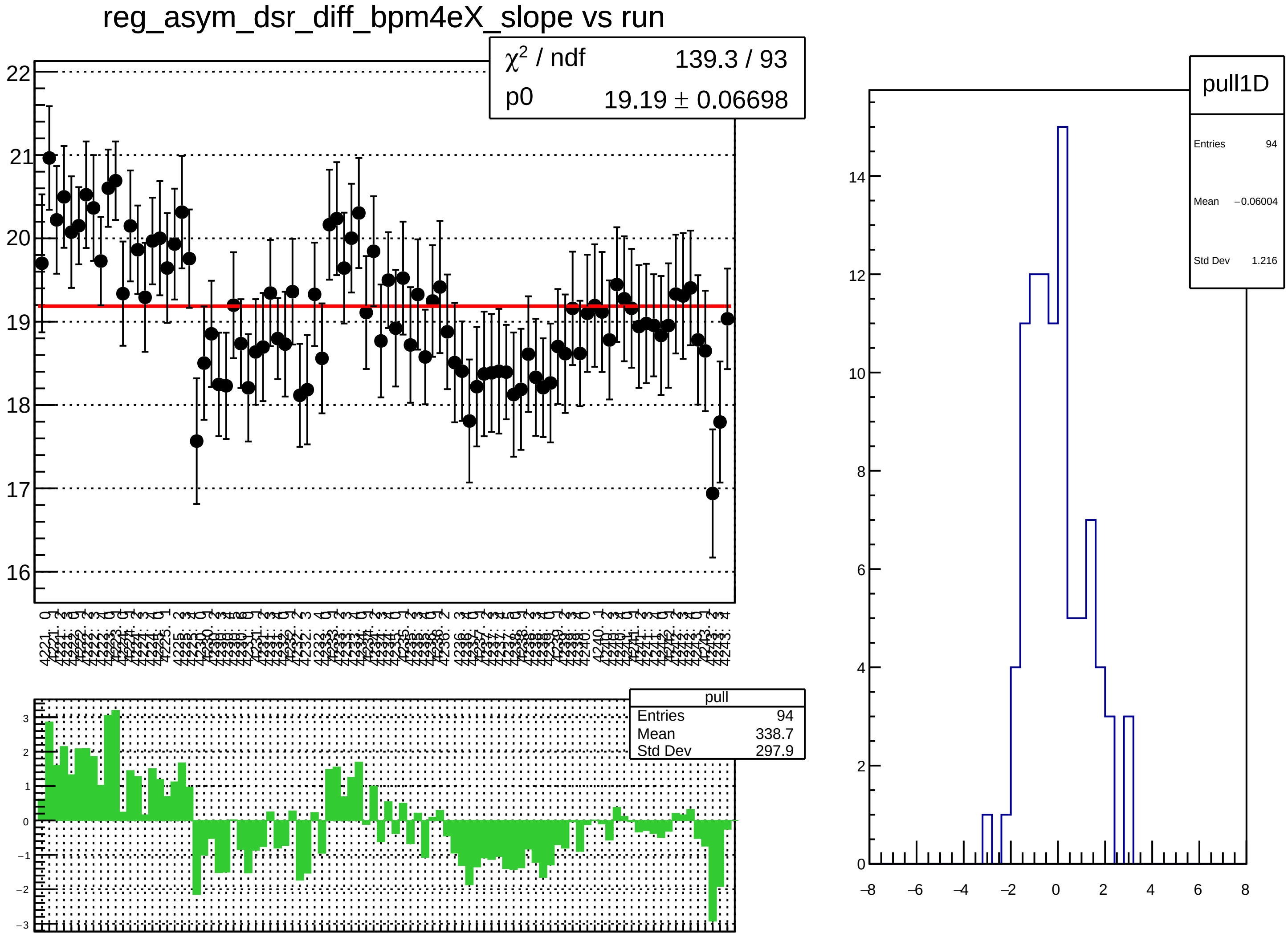


reg_asym_dsl_diff_bpm11X_slope vs run
χ2 / ndf 69.02 / 93
p0 −46.47 ± 0.1058
pull
Entries 94
Mean −1045
Std Dev 1087
pull1D
Entries 94
Mean 0.01101
Std Dev 0.8568

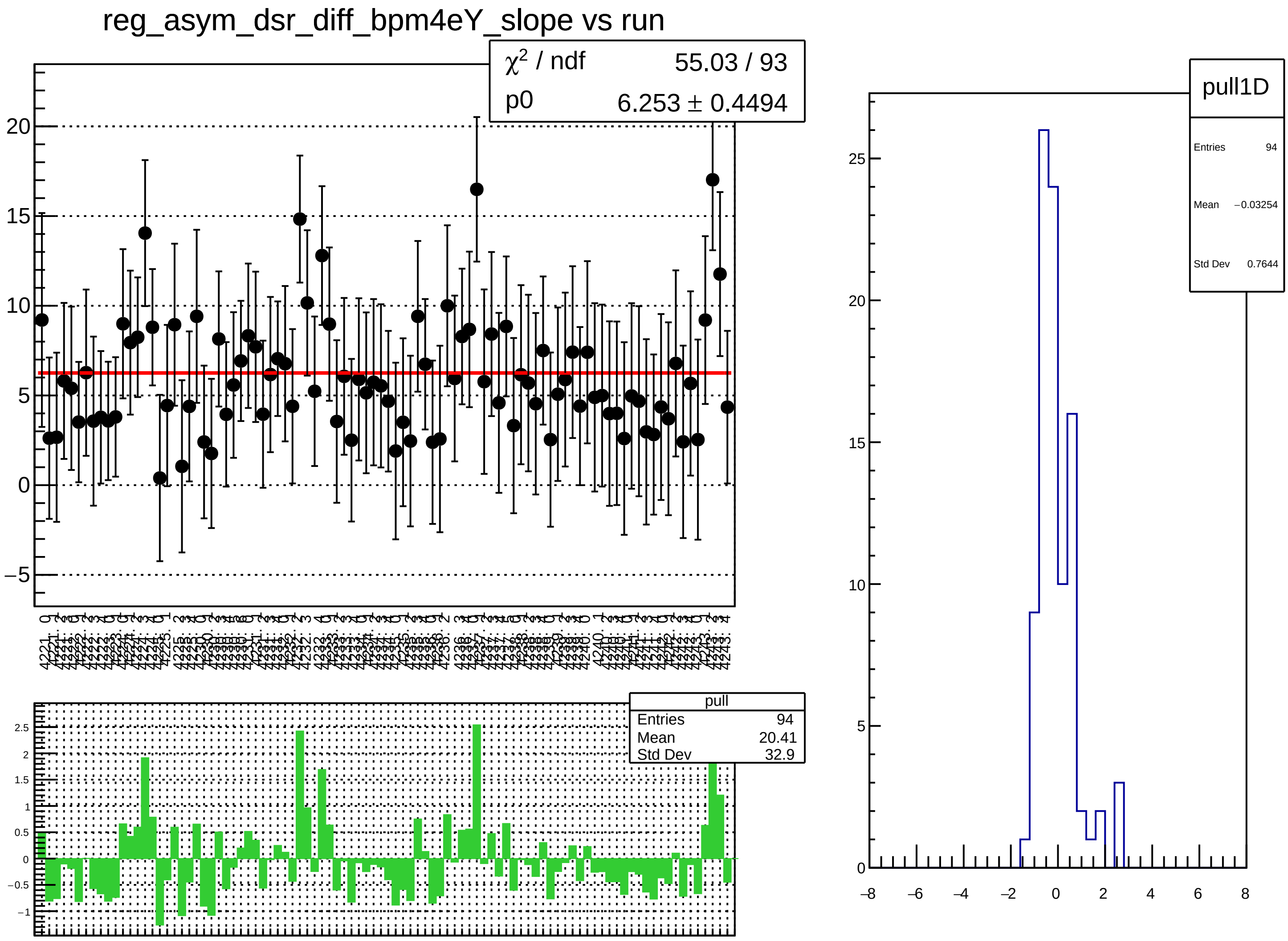


reg_asym_dsr_diff_bpm4aX_slope vs run
χ^2 / ndf 37.06 / 93
p0 −45.23 ± 0.3248
pull
Entries 94
Mean 6.38
Std Dev 21.9
pull1D
Entries 94
Mean 0.0274
Std Dev 0.6273

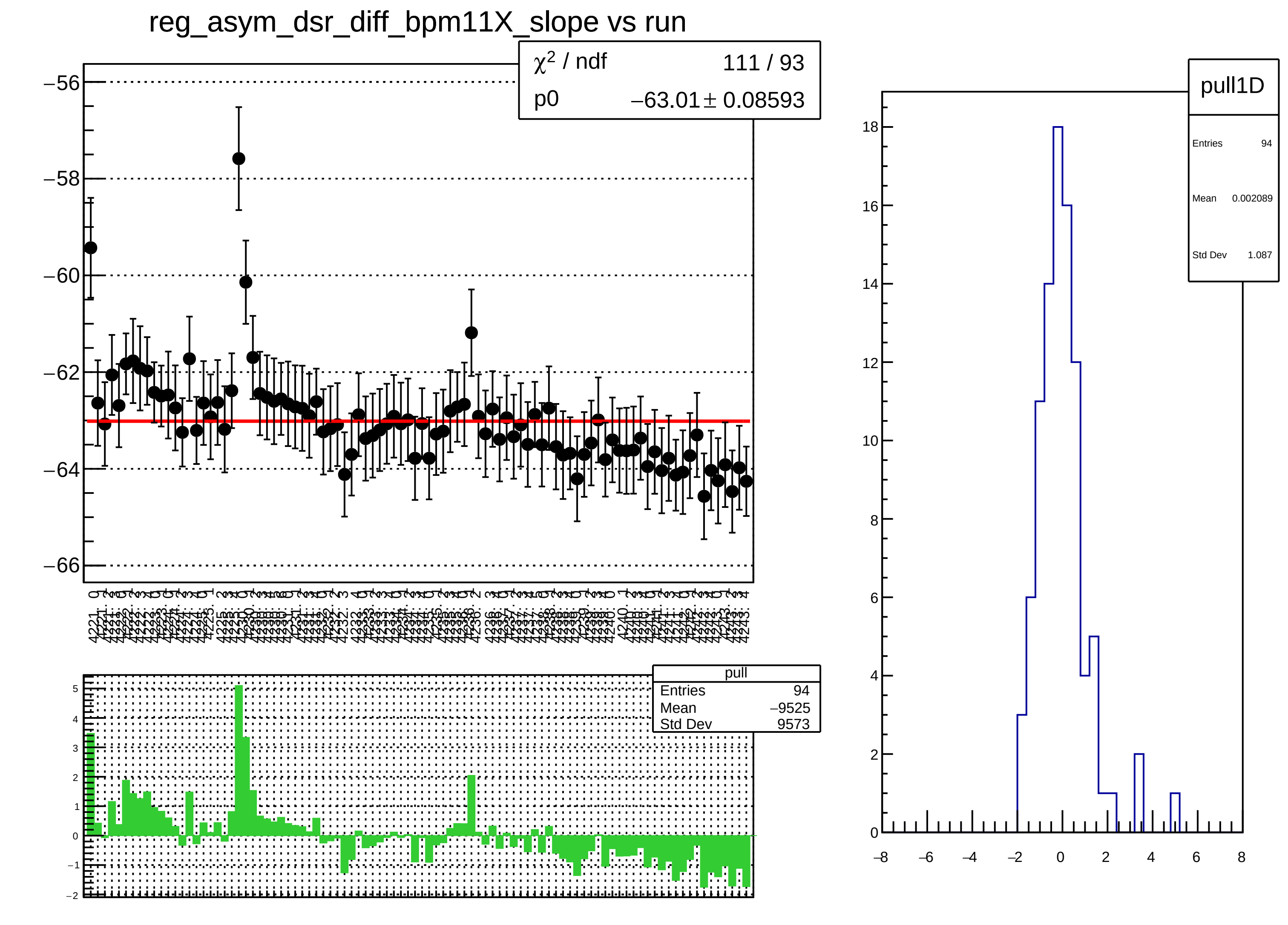

reg_asym_dsr_diff_bpm4aY_slope vs run
χ2 / ndf 66.43 / 93
p0 6.369 ± 0.2729
pull
Entries 94
Mean 416.7
Std Dev 366.9
pull1D
Entries 94
Mean 0.00799
Std Dev 0.8406



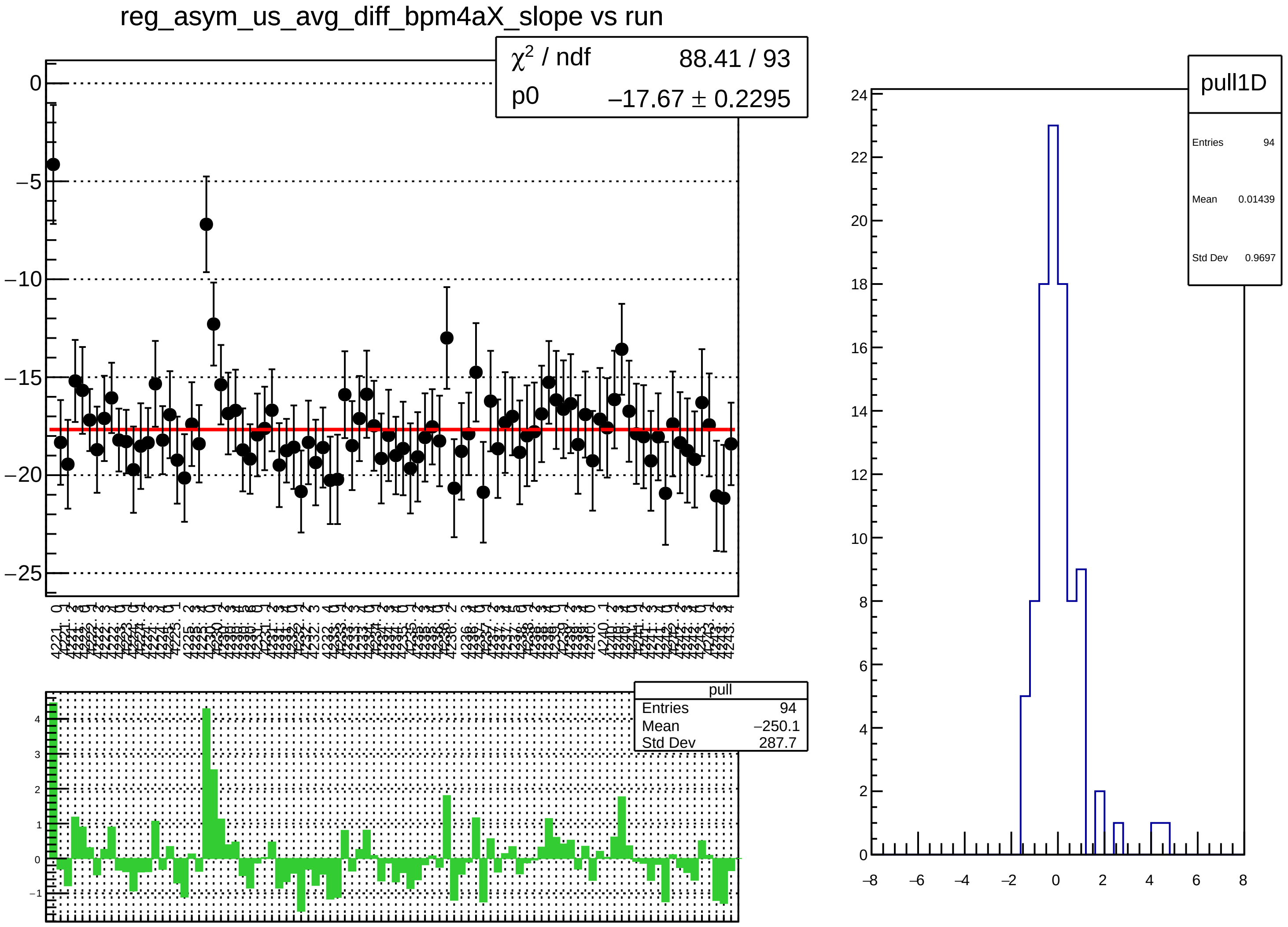
reg_asym_dsr_diff_bpm4eX_slope vs run
χ2 / ndf 139.3 / 93
p0 19.19 ± 0.06698
pull
Entries 94
Mean 338.7
Std Dev 297.9
pull1D
Entries 94
Mean −0.06004
Std Dev 1.216



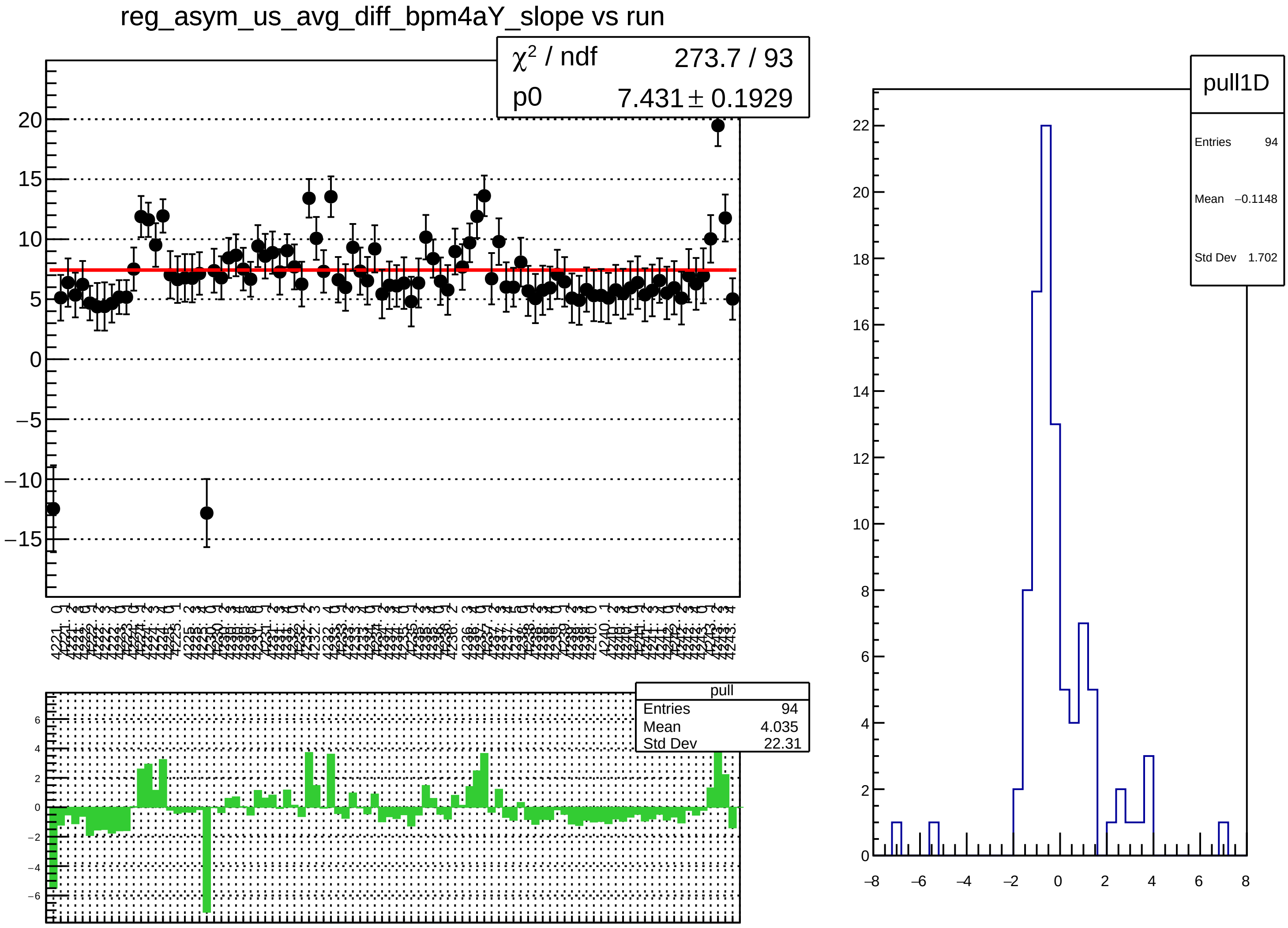
reg_asym_dsr_diff_bpm4eY_slope vs run
χ^2 / ndf 55.03 / 93
p0 6.253 ± 0.4494
pull
Entries 94
Mean 20.41
Std Dev 32.9
pull1D
Entries 94
Mean −0.03254
Std Dev 0.7644



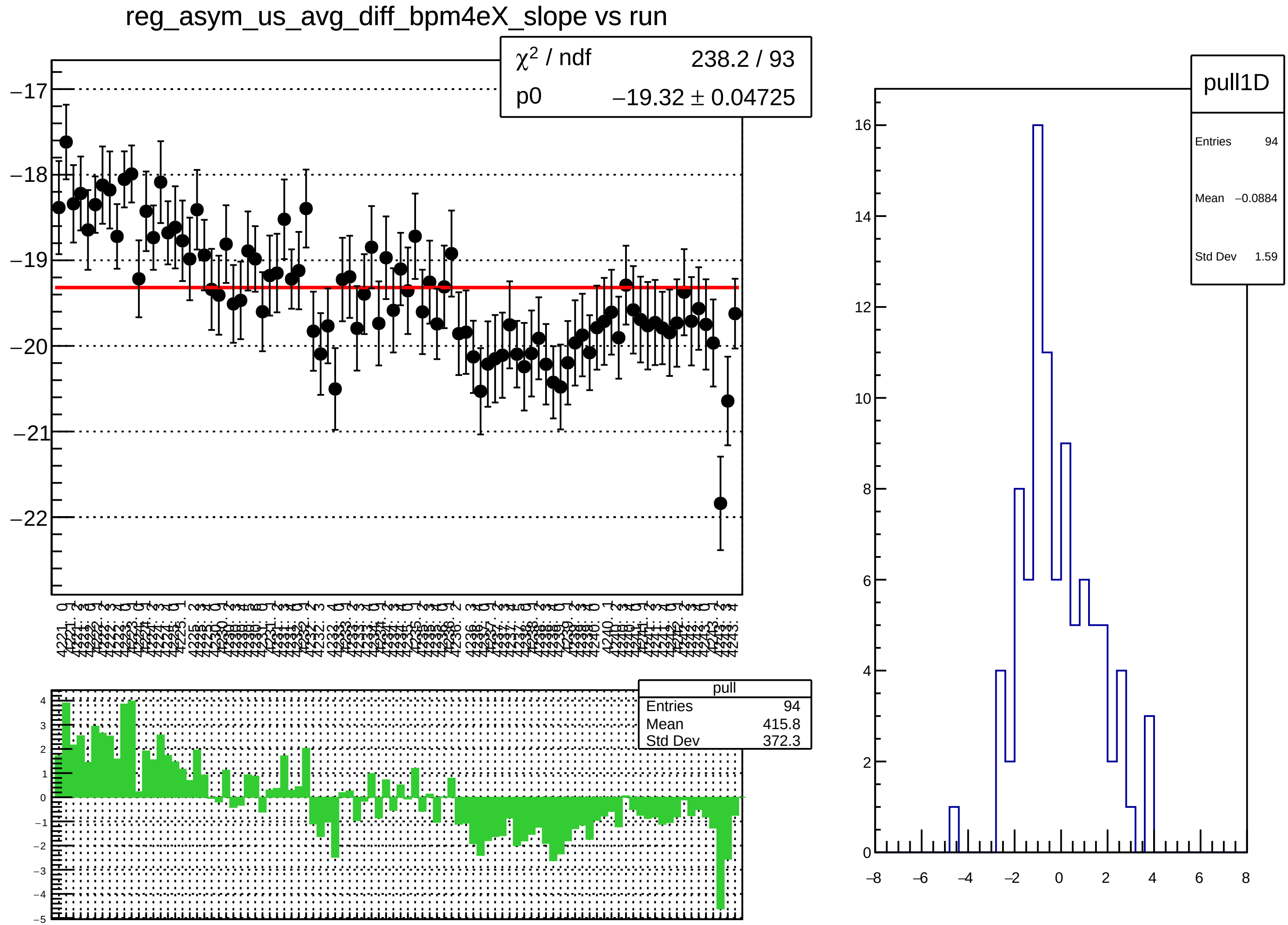
reg_asym_dsr_diff_bpm11X_slope vs run
χ2 / ndf 111 / 93
p0 −63.01 ± 0.08593
pull
Entries 94
Mean −9525
Std Dev 9573
pull1D
Entries 94
Mean 0.002089
Std Dev 1.087



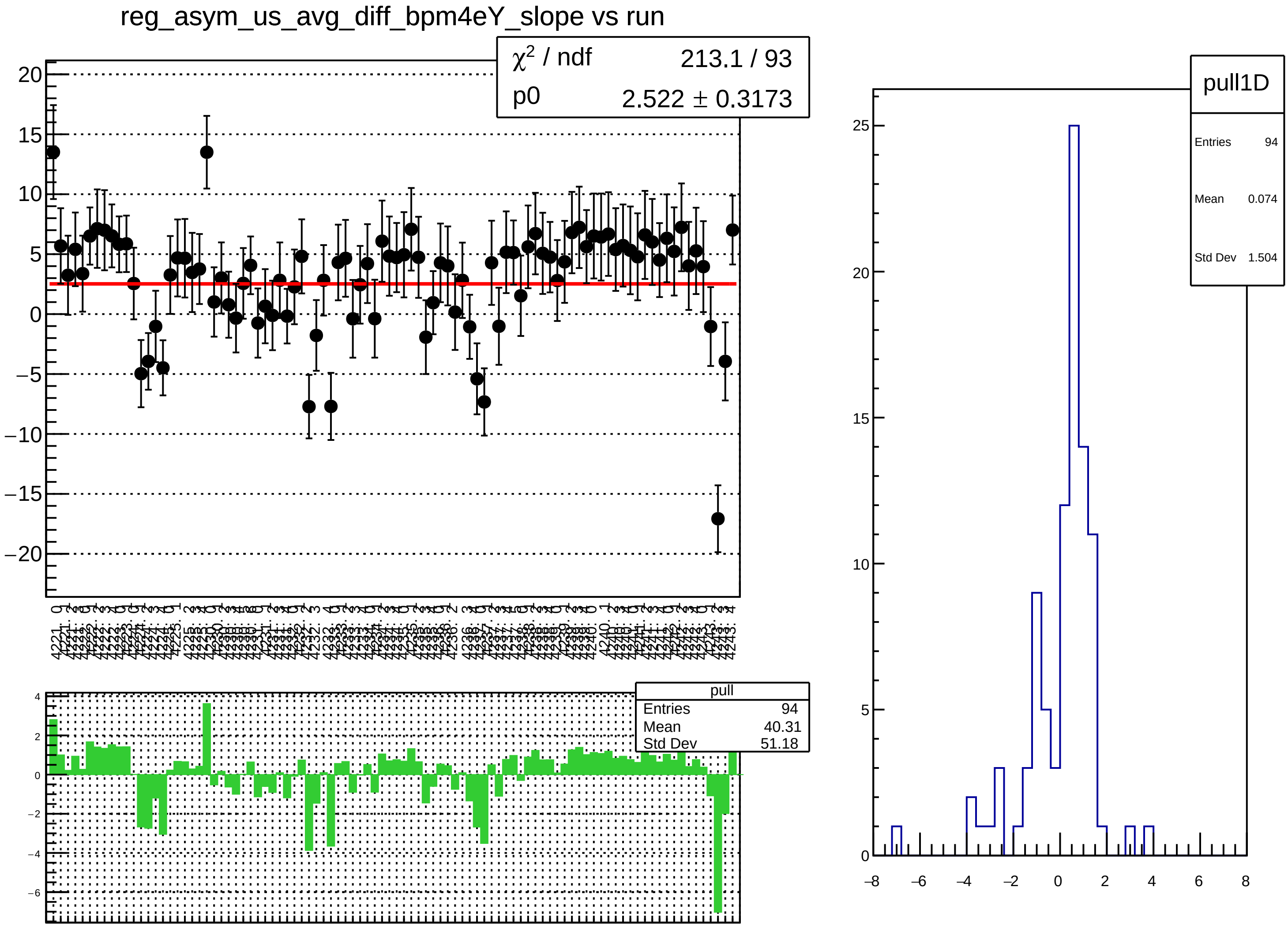
reg_asym_us_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 88.41 / 93
p0 −17.67 ± 0.2295
0
−5
−10
−15
−20
−25
pull
Entries 94
Mean −250.1
Std Dev 287.7
pull1D
Entries 94
Mean 0.01439
Std Dev 0.9697



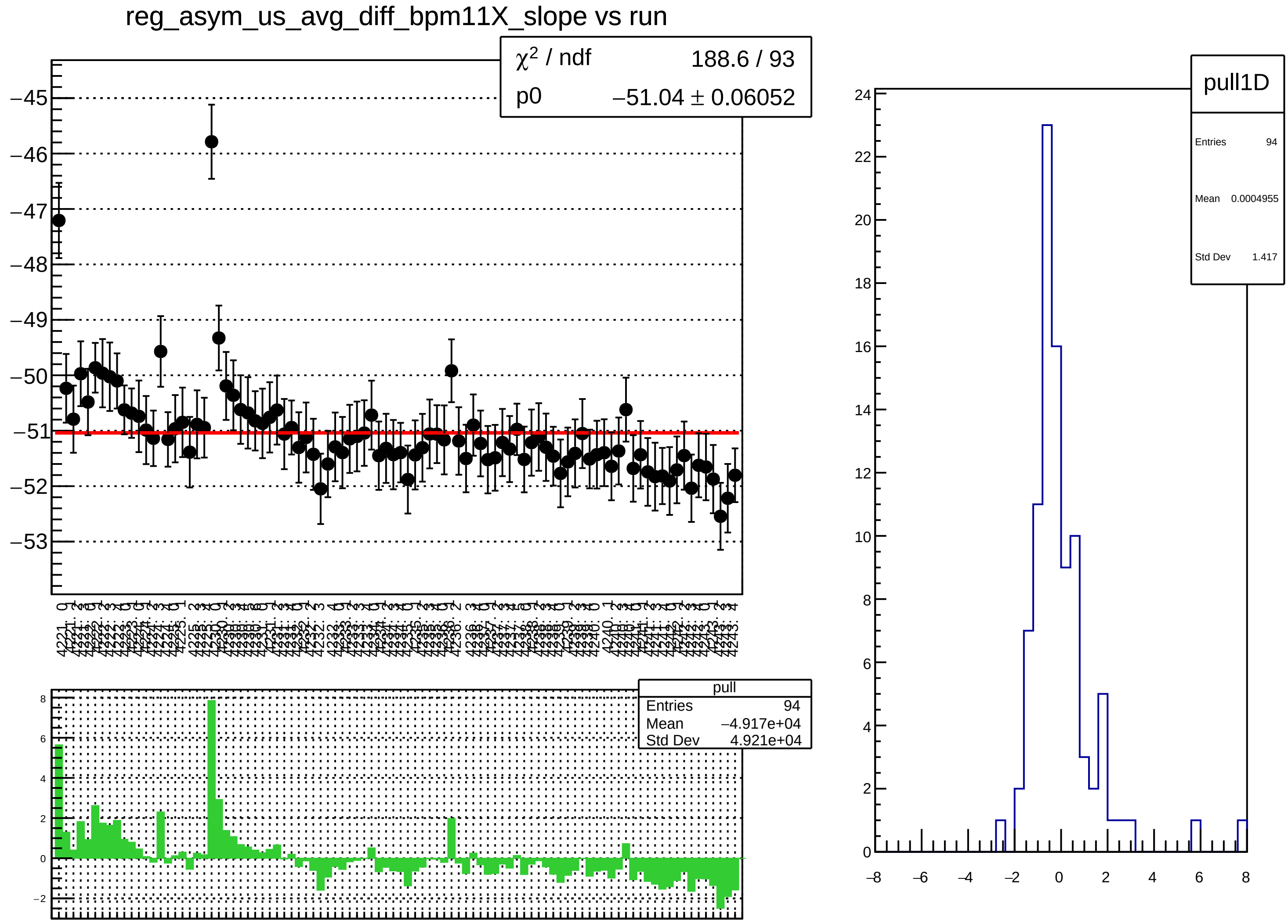
reg_asym_us_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 273.7 / 93
p0 7.431 ± 0.1929
pull
Entries 94
Mean 4.035
Std Dev 22.31
pull1D
Entries 94
Mean −0.1148
Std Dev 1.702



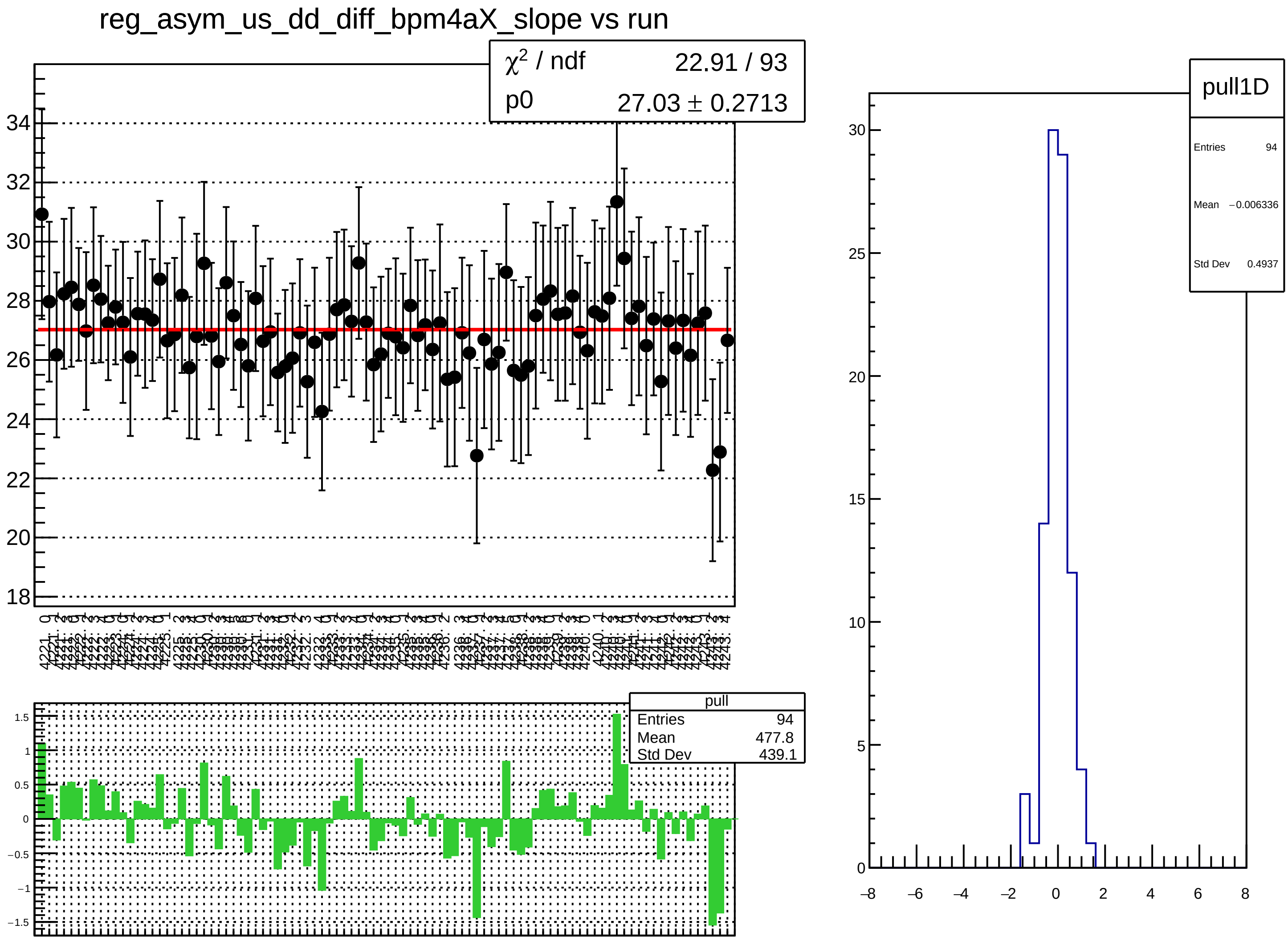
reg_asym_us_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 238.2 / 93
p0 −19.32 ± 0.04725
pull
Entries 94
Mean 415.8
Std Dev 372.3
pull1D
Entries 94
Mean −0.0884
Std Dev 1.59

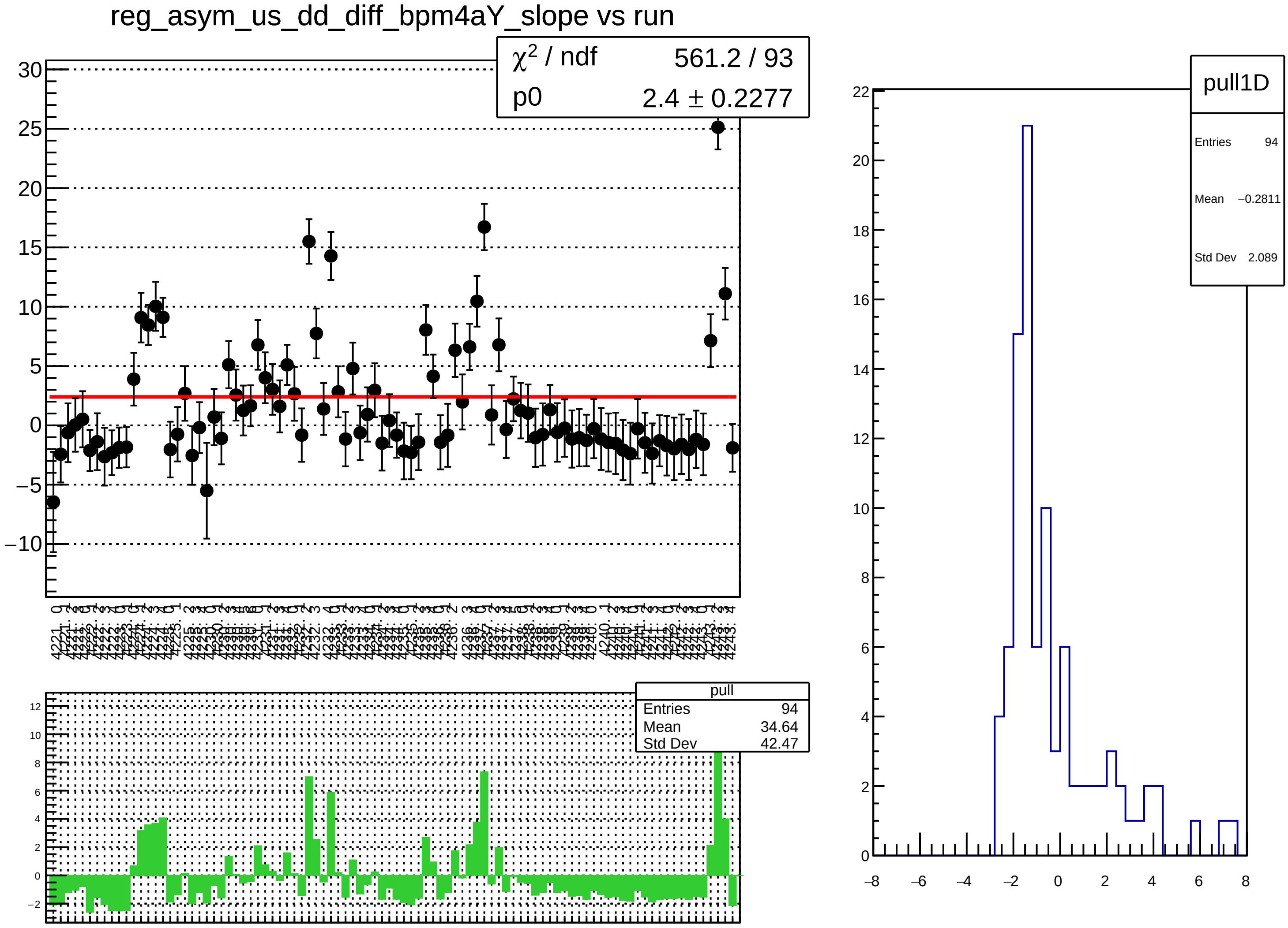


reg_asym_us_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 213.1 / 93
p0 2.522 ± 0.3173
pull
Entries 94
Mean 40.31
Std Dev 51.18
pull1D
Entries 94
Mean 0.074
Std Dev 1.504

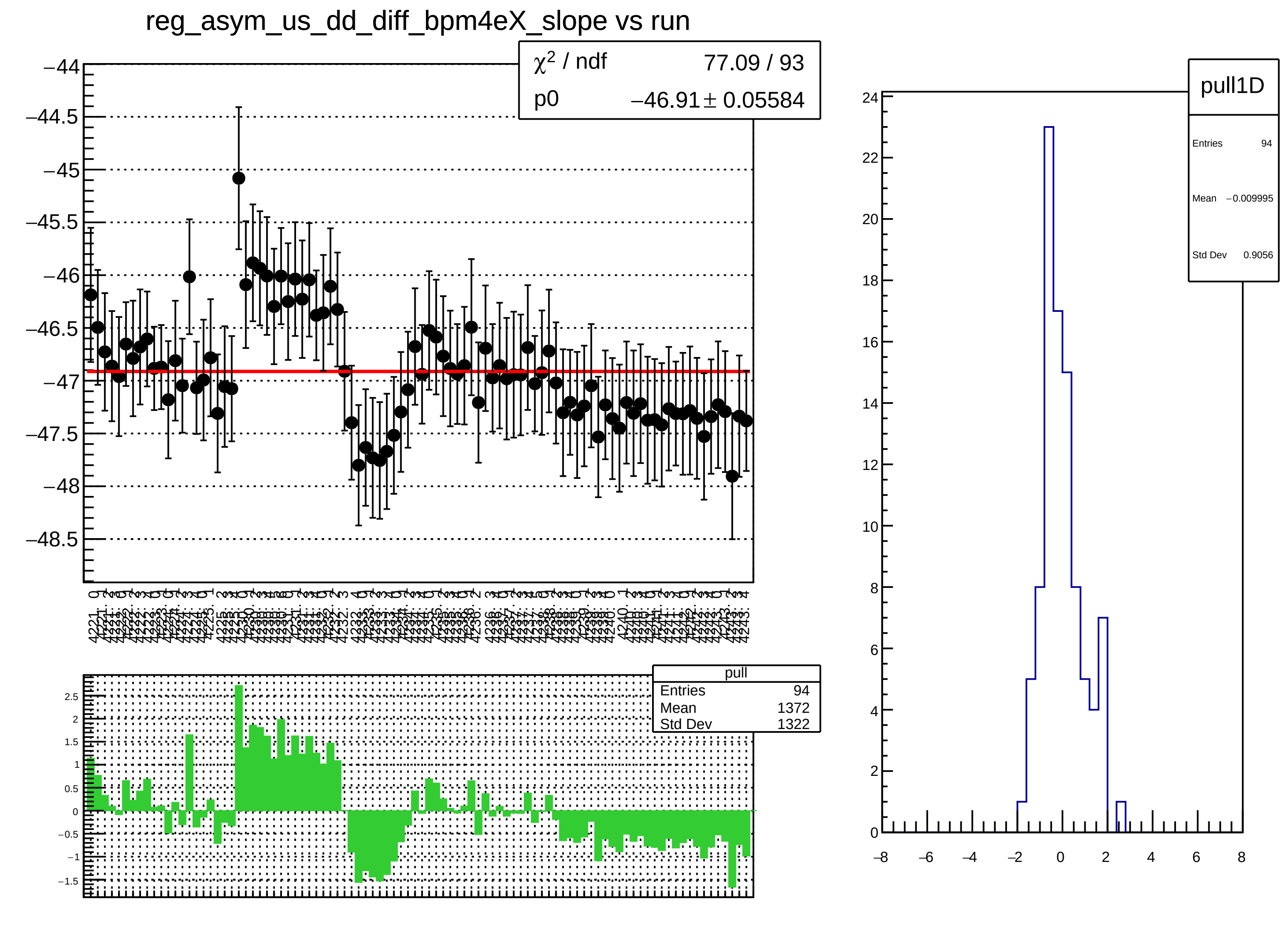


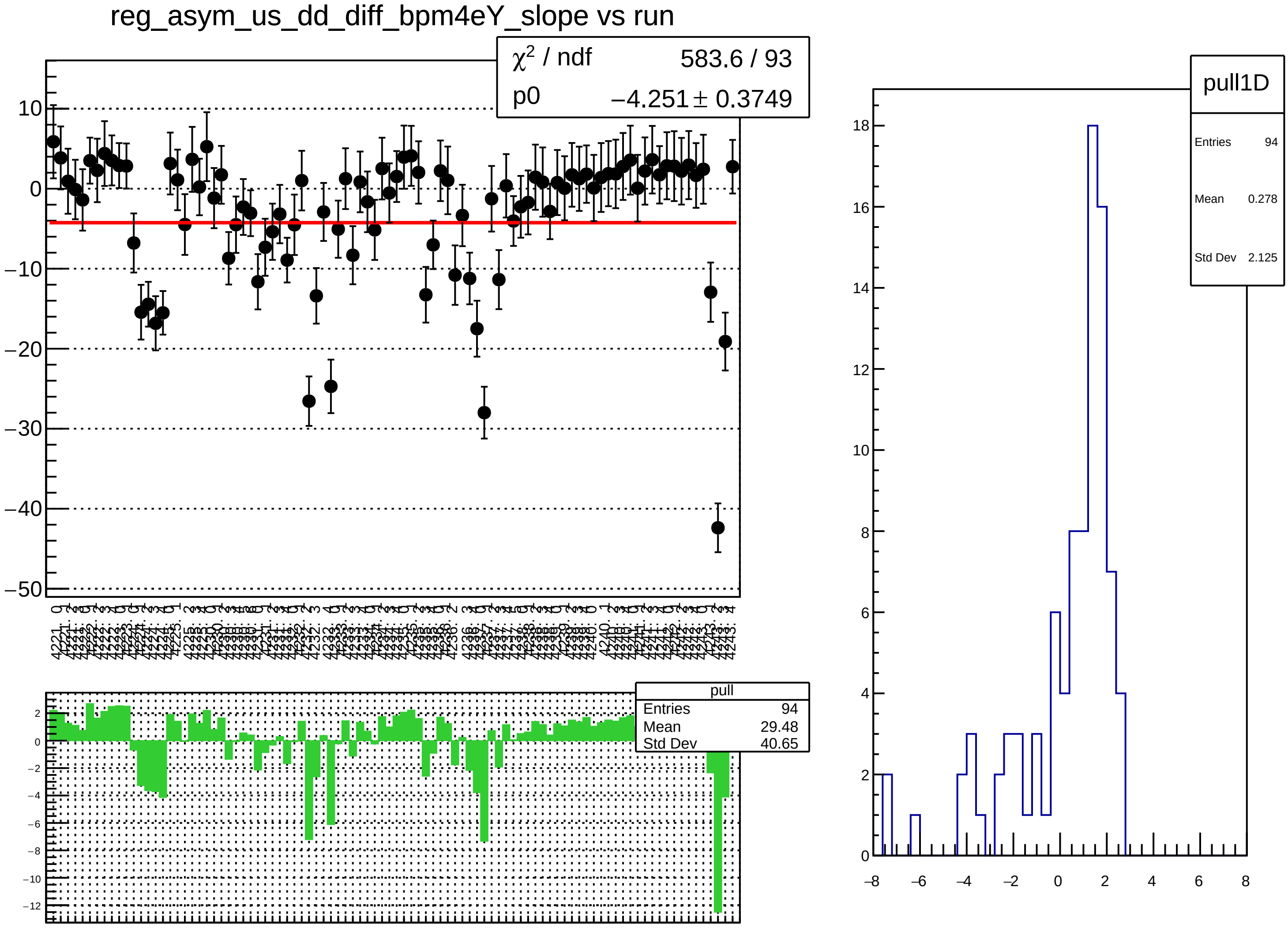
reg_asym_us_avg_diff_bpm11X_slope vs run
χ2 / ndf 188.6 / 93
p0 −51.04 ± 0.06052
pull
Entries 94
Mean −4.917e+04
Std Dev 4.921e+04
pull1D
Entries 94
Mean 0.0004955
Std Dev 1.417


reg_asym_us_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 22.91 / 93
p0 27.03 ± 0.2713
pull
Entries 94
Mean 477.8
Std Dev 439.1
pull1D
Entries 94
Mean −0.006336
Std Dev 0.4937

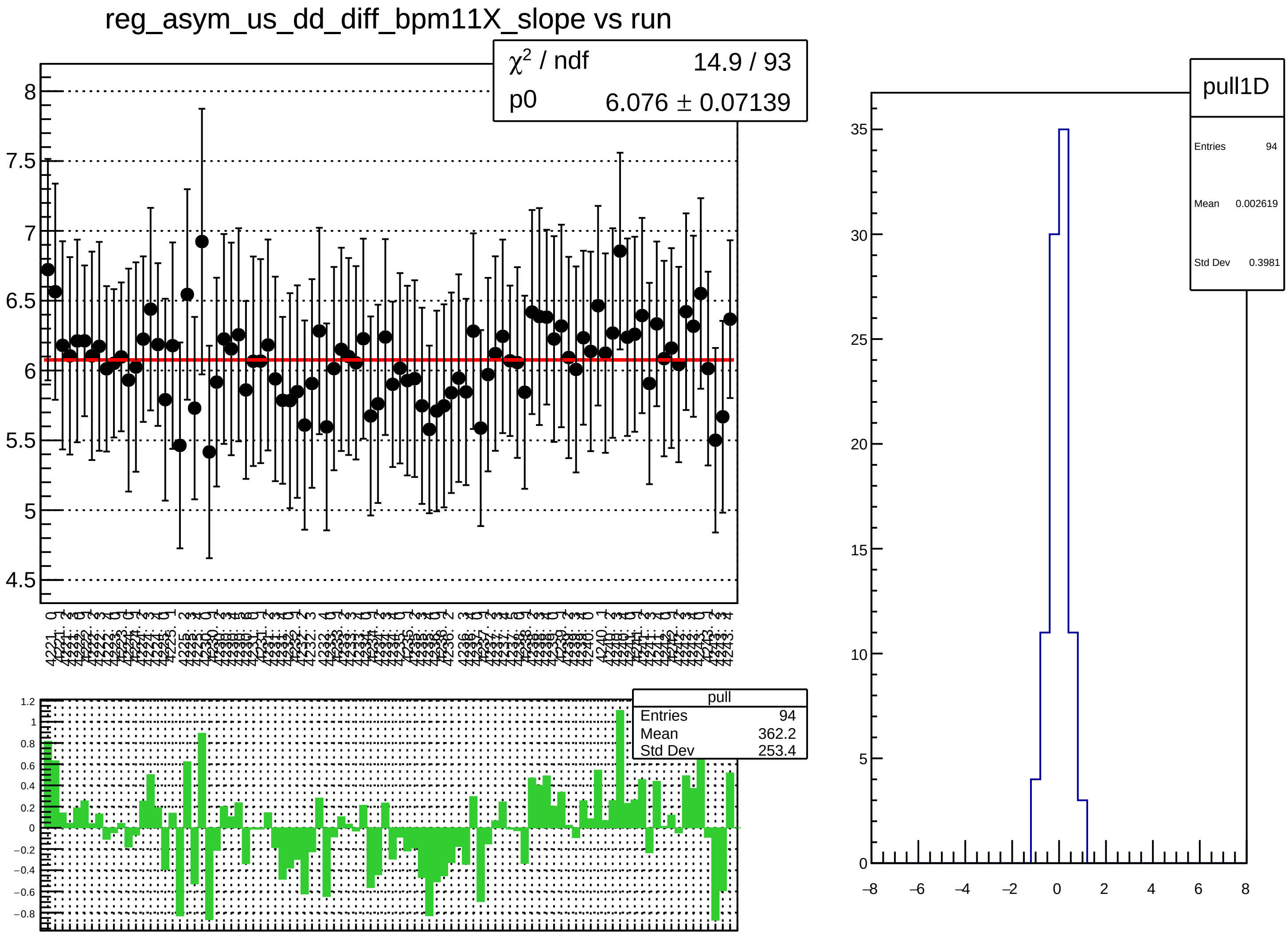


reg_asym_us_dd_diff_bpm4aY_slope vs run
χ2 / ndf 561.2 / 93
p0 2.4 ± 0.2277
pull
Entries 94
Mean 34.64
Std Dev 42.47
pull1D
Entries 94
Mean −0.2811
Std Dev 2.089

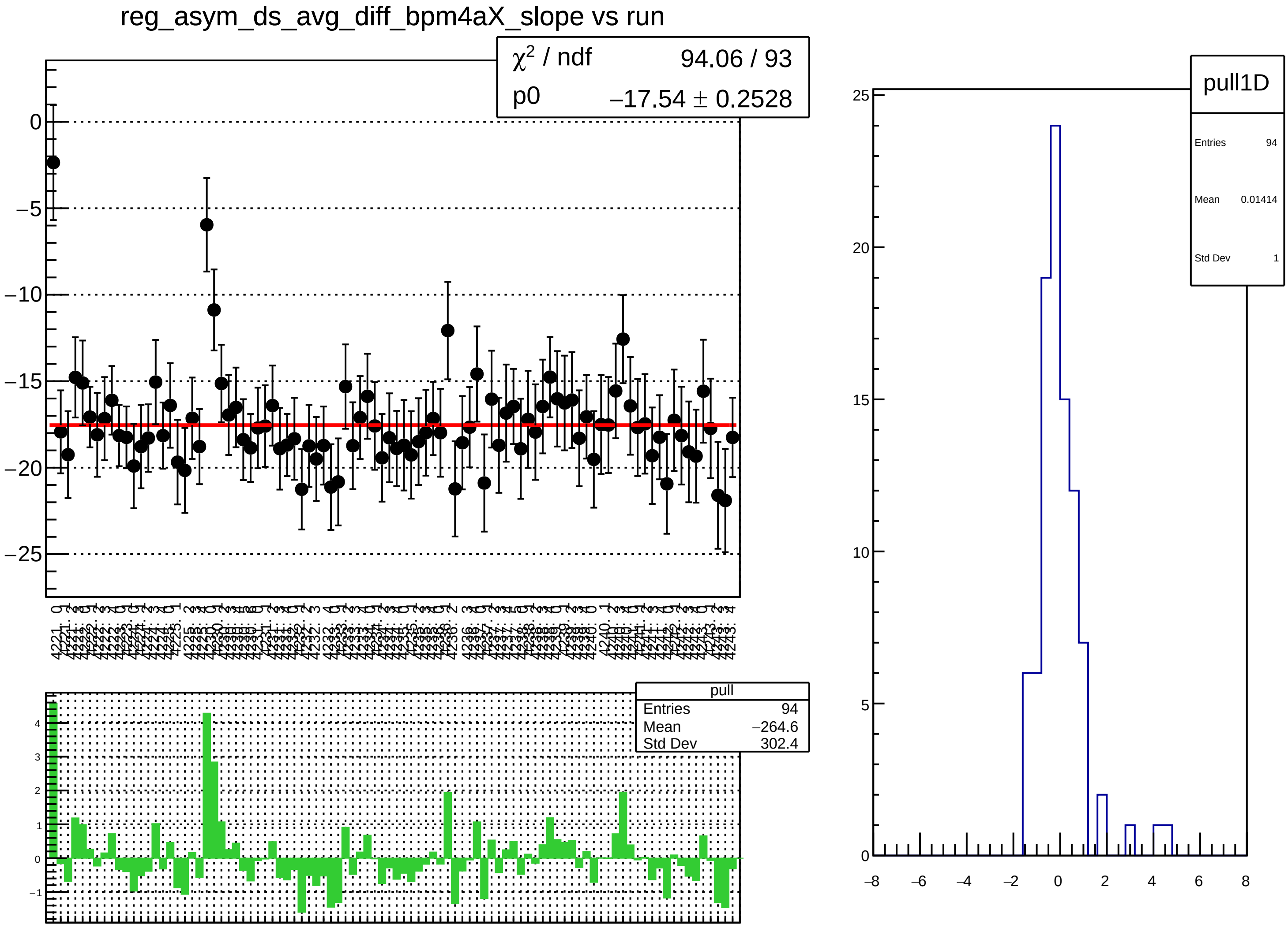

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 77.09 / 93
p0 −46.91 ± 0.05584
pull
Entries 94
Mean 1372
Std Dev 1322
pull1D
Entries 94
Mean −0.009995
Std Dev 0.9056



reg_asym_us_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 583.6 / 93
p0 −4.251 ± 0.3749
pull
Entries 94
Mean 29.48
Std Dev 40.65
pull1D
Entries 94
Mean 0.278
Std Dev 2.125

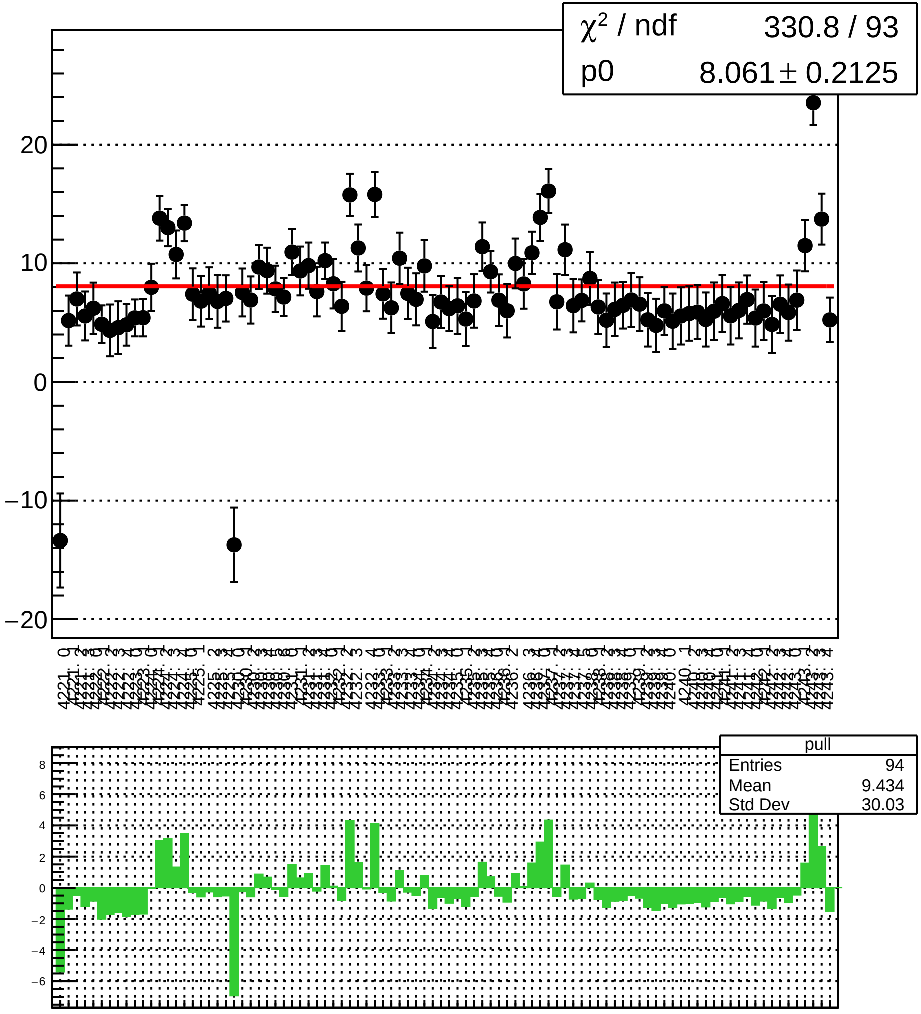


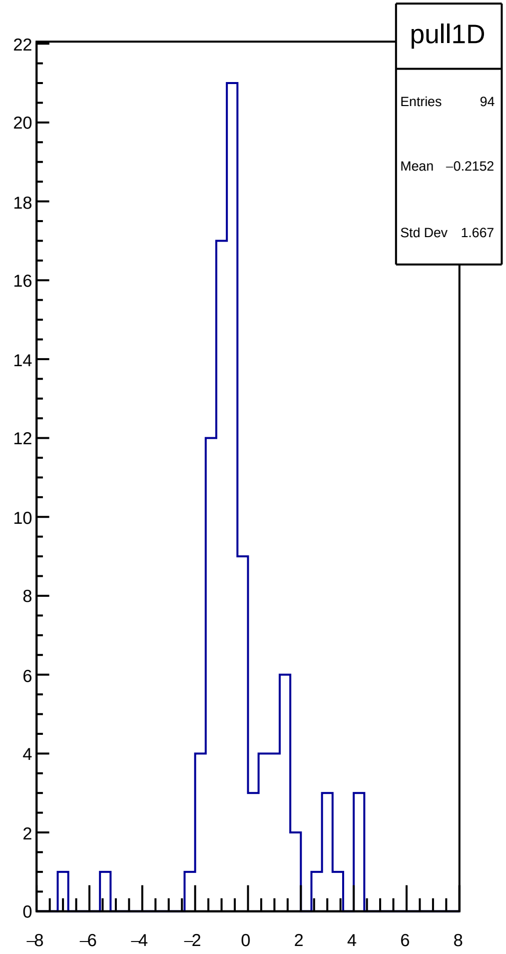
reg_asym_us_dd_diff_bpm11X_slope vs run
χ^2 / ndf 14.9 / 93
p0 6.076 ± 0.07139
pull
Entries 94
Mean 362.2
Std Dev 253.4
pull1D
Entries 94
Mean 0.002619
Std Dev 0.3981

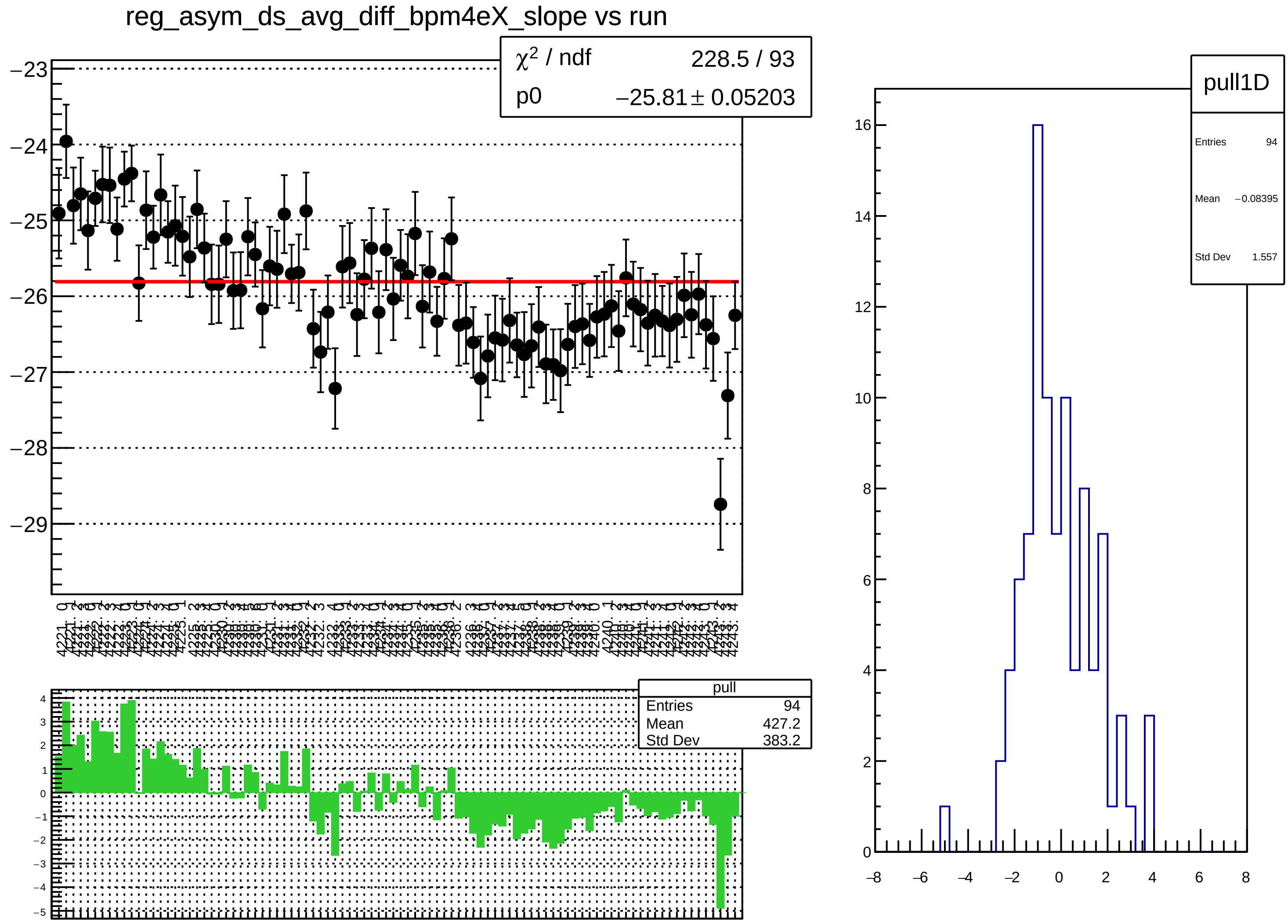


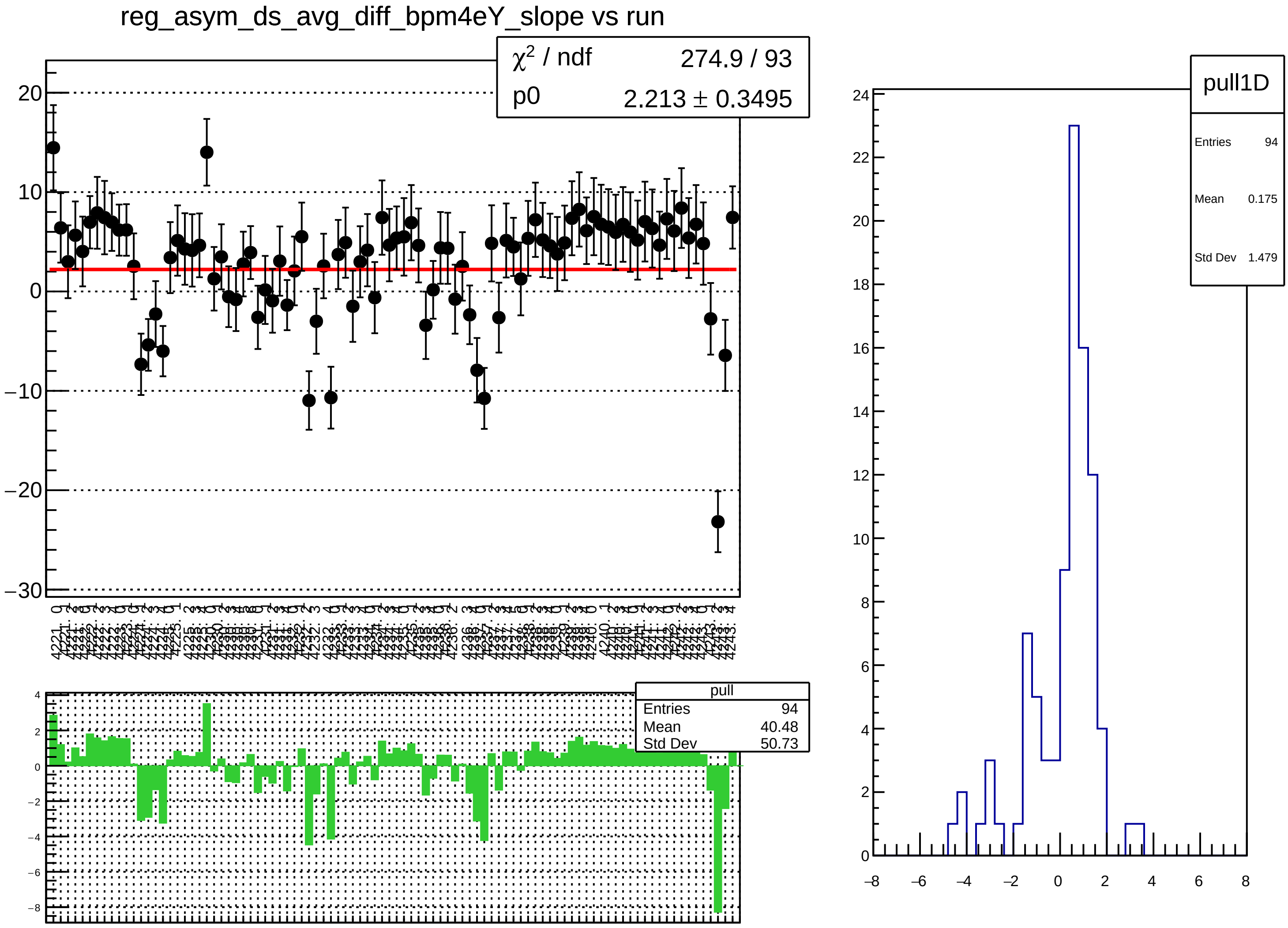
reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ2 / ndf 94.06 / 93
p0 −17.54 ± 0.2528
pull
Entries 94
Mean −264.6
Std Dev 302.4
pull1D
Entries 94
Mean 0.01414
Std Dev 1

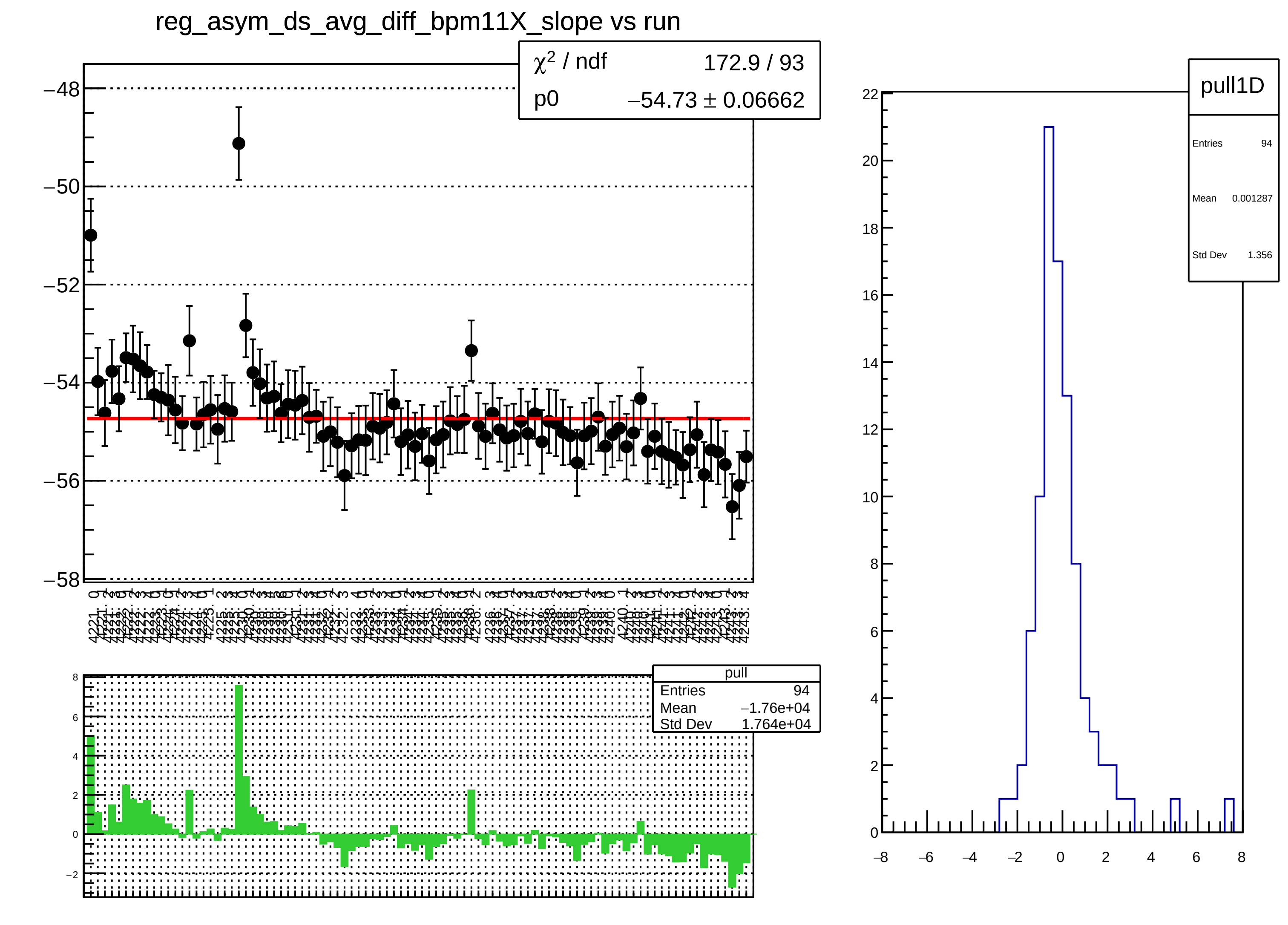
reg_asym_ds_avg_diff_bpm4aY_slope vs run



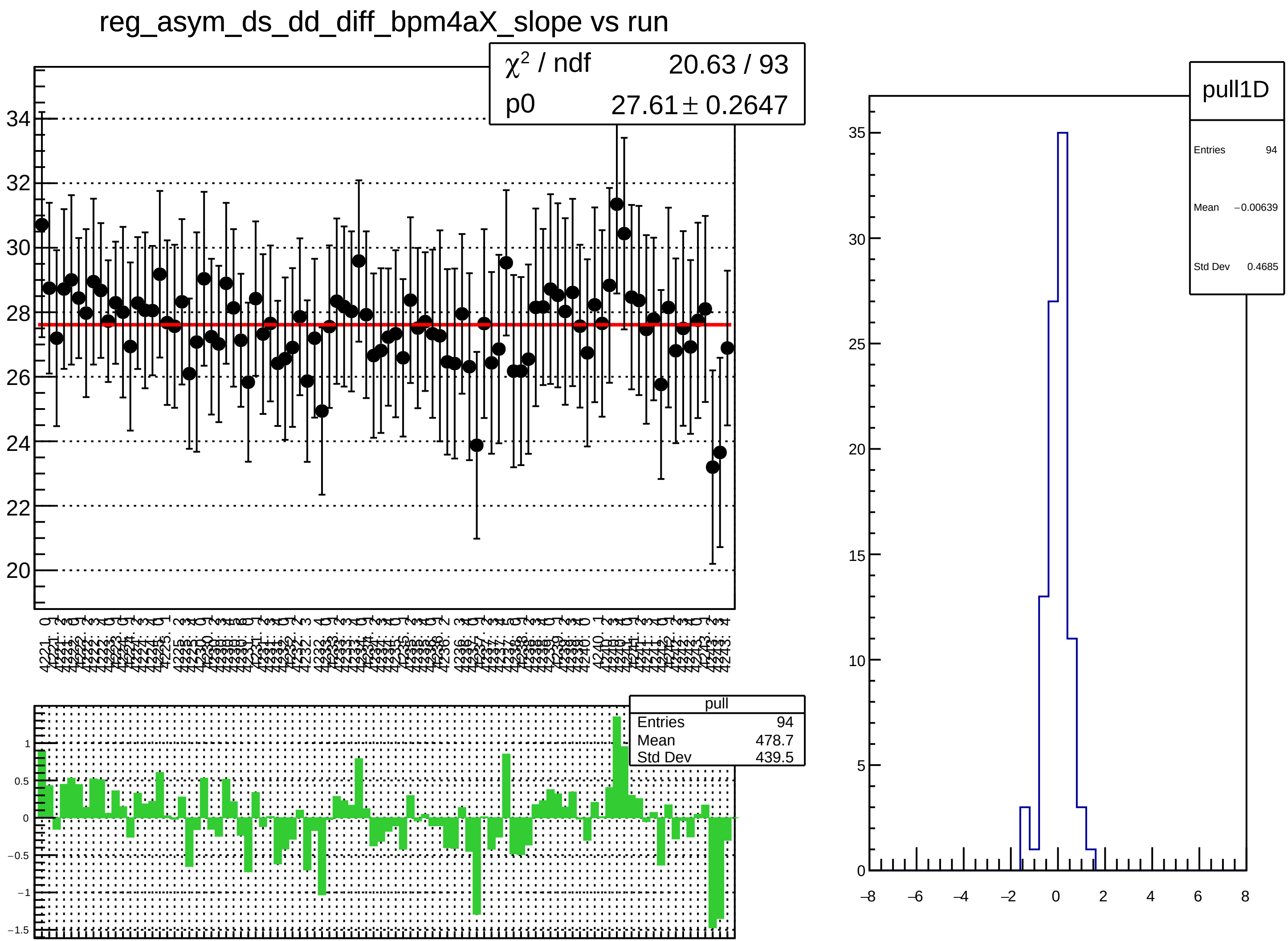



reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ2 / ndf 228.5 / 93
p0 −25.81 ± 0.05203
−23
−24
−25
−26
−27
−28
−29
pull
Entries 94
Mean 427.2
Std Dev 383.2
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 94
Mean −0.08395
Std Dev 1.557
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

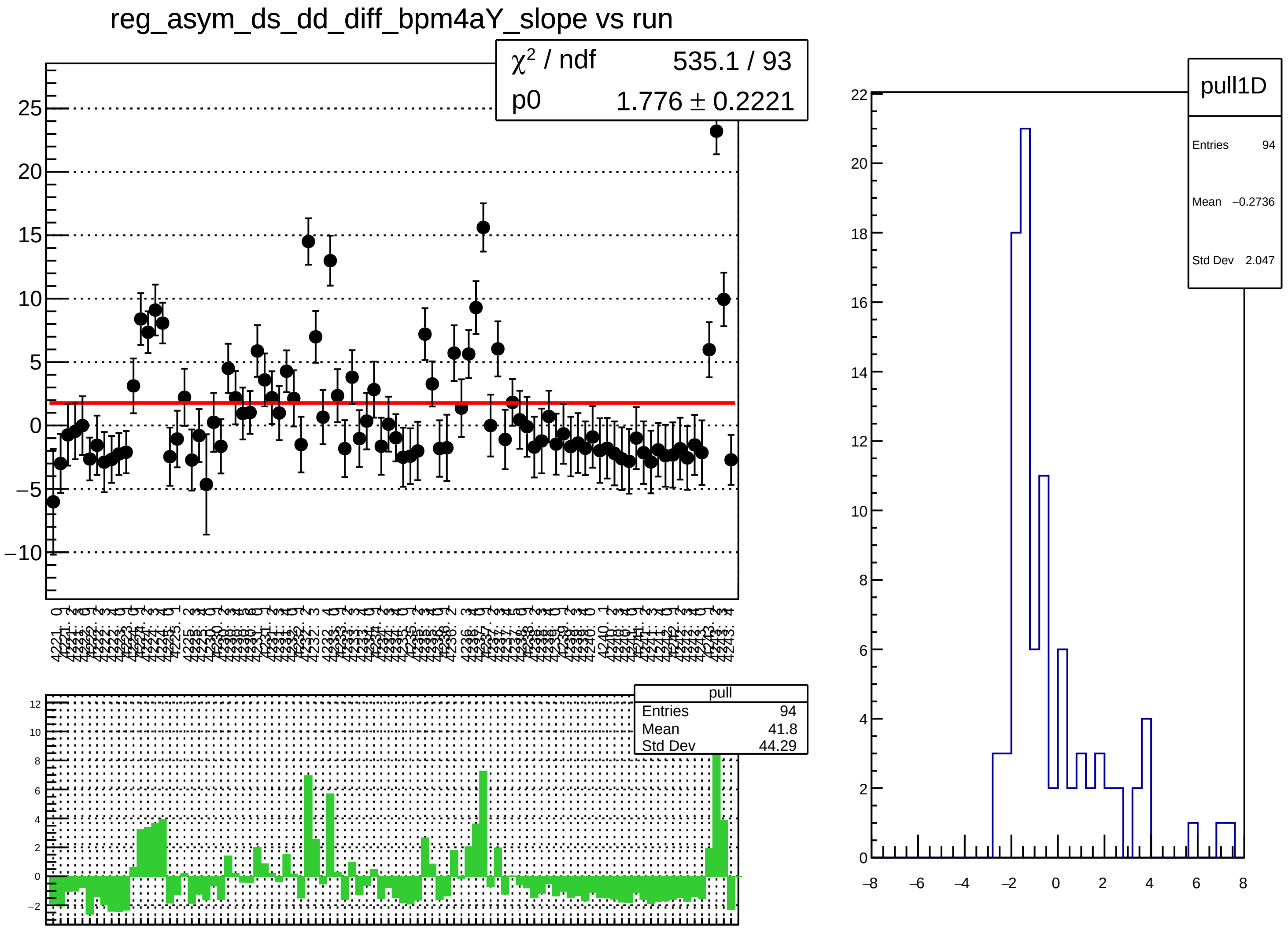

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 274.9 / 93
p0 2.213 ± 0.3495
pull
Entries 94
Mean 40.48
Std Dev 50.73
pull1D
Entries 94
Mean 0.175
Std Dev 1.479



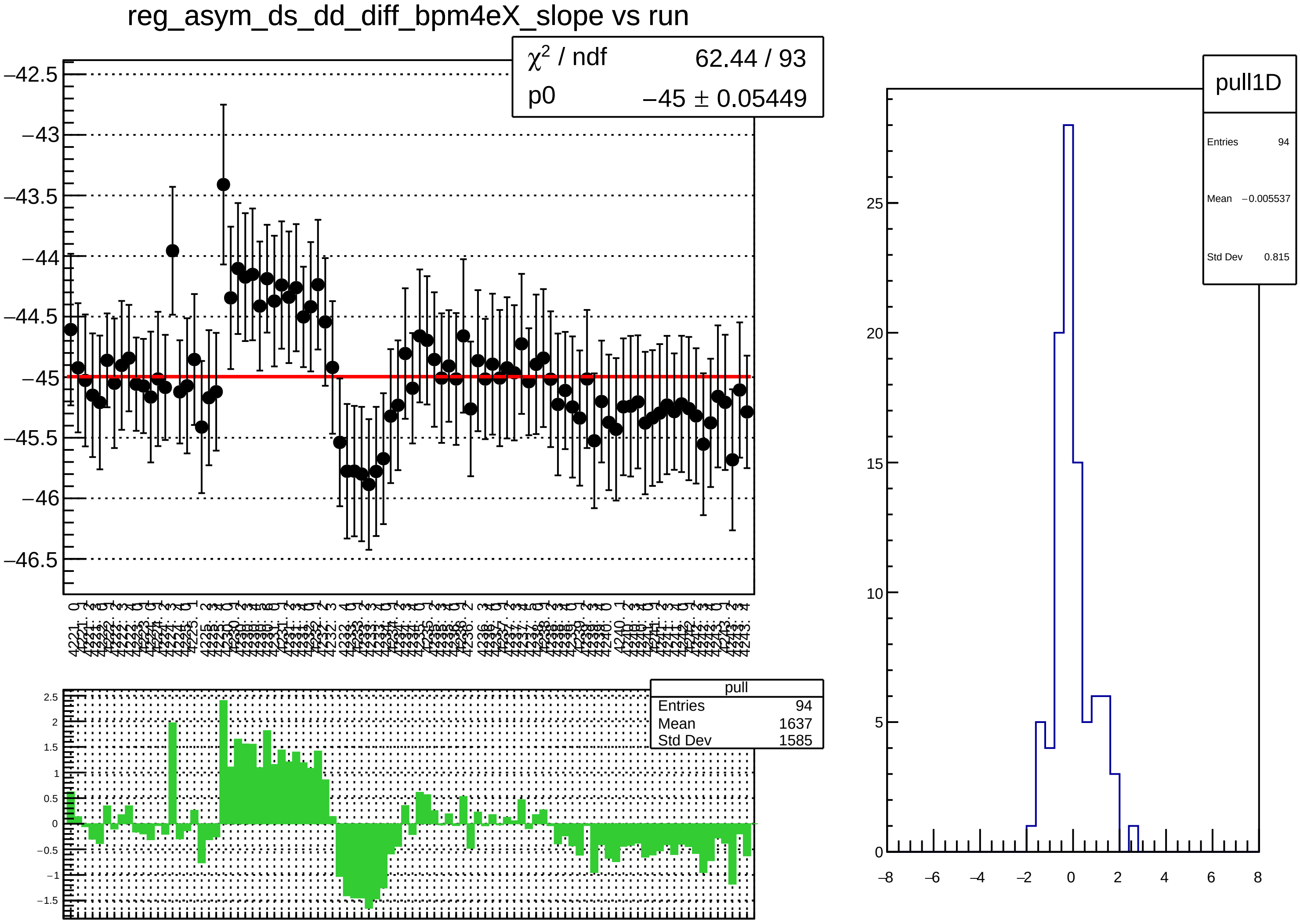
reg_asym_ds_avg_diff_bpm11X_slope vs run
χ^2 / ndf 172.9 / 93
p0 −54.73 ± 0.06662
pull
Entries 94
Mean −1.76e+04
Std Dev 1.764e+04
pull1D
Entries 94
Mean 0.001287
Std Dev 1.356



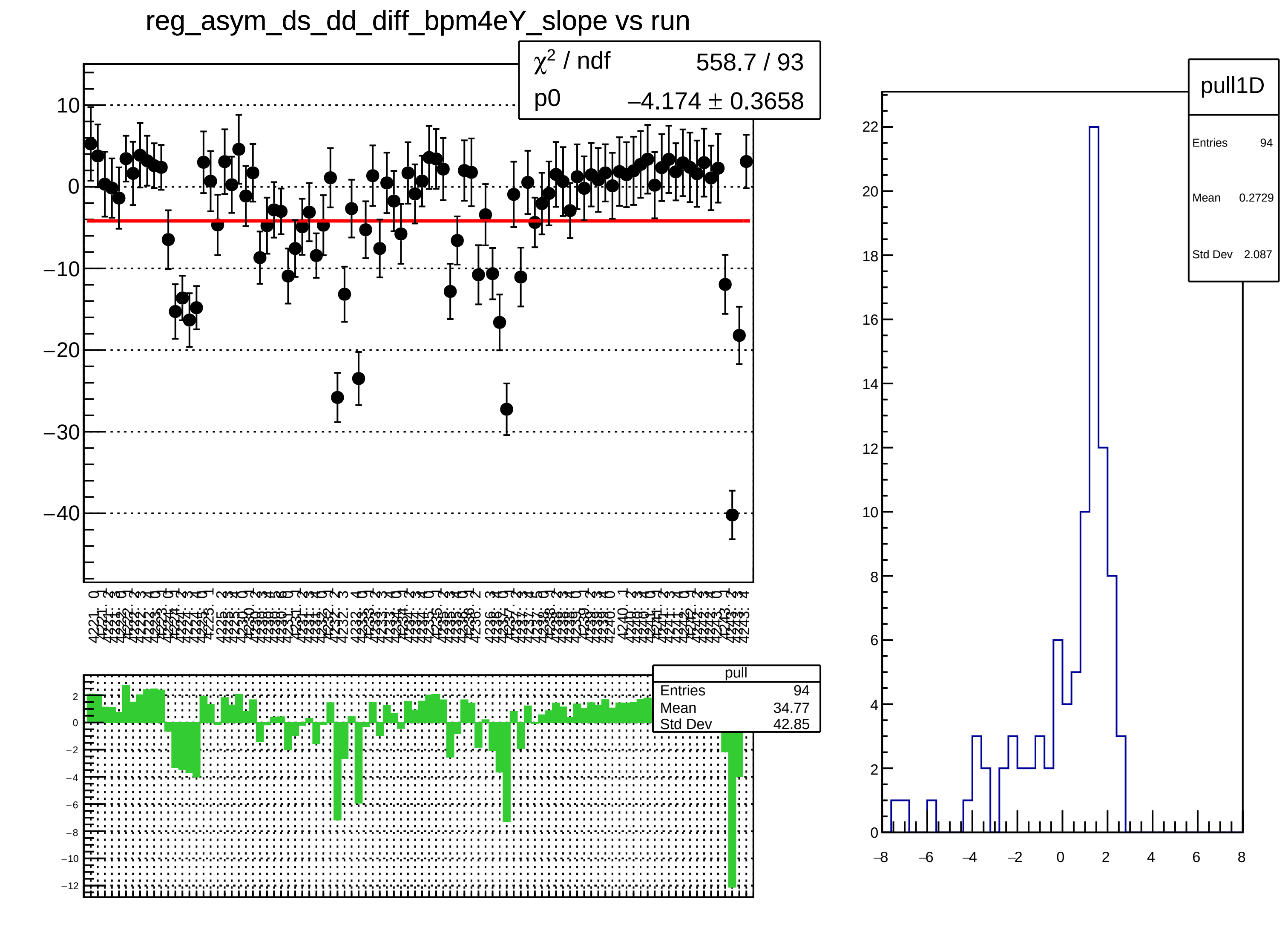
reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ2 / ndf 20.63 / 93
p0 27.61 ± 0.2647
pull
Entries 94
Mean 478.7
Std Dev 439.5
pull1D
Entries 94
Mean −0.00639
Std Dev 0.4685

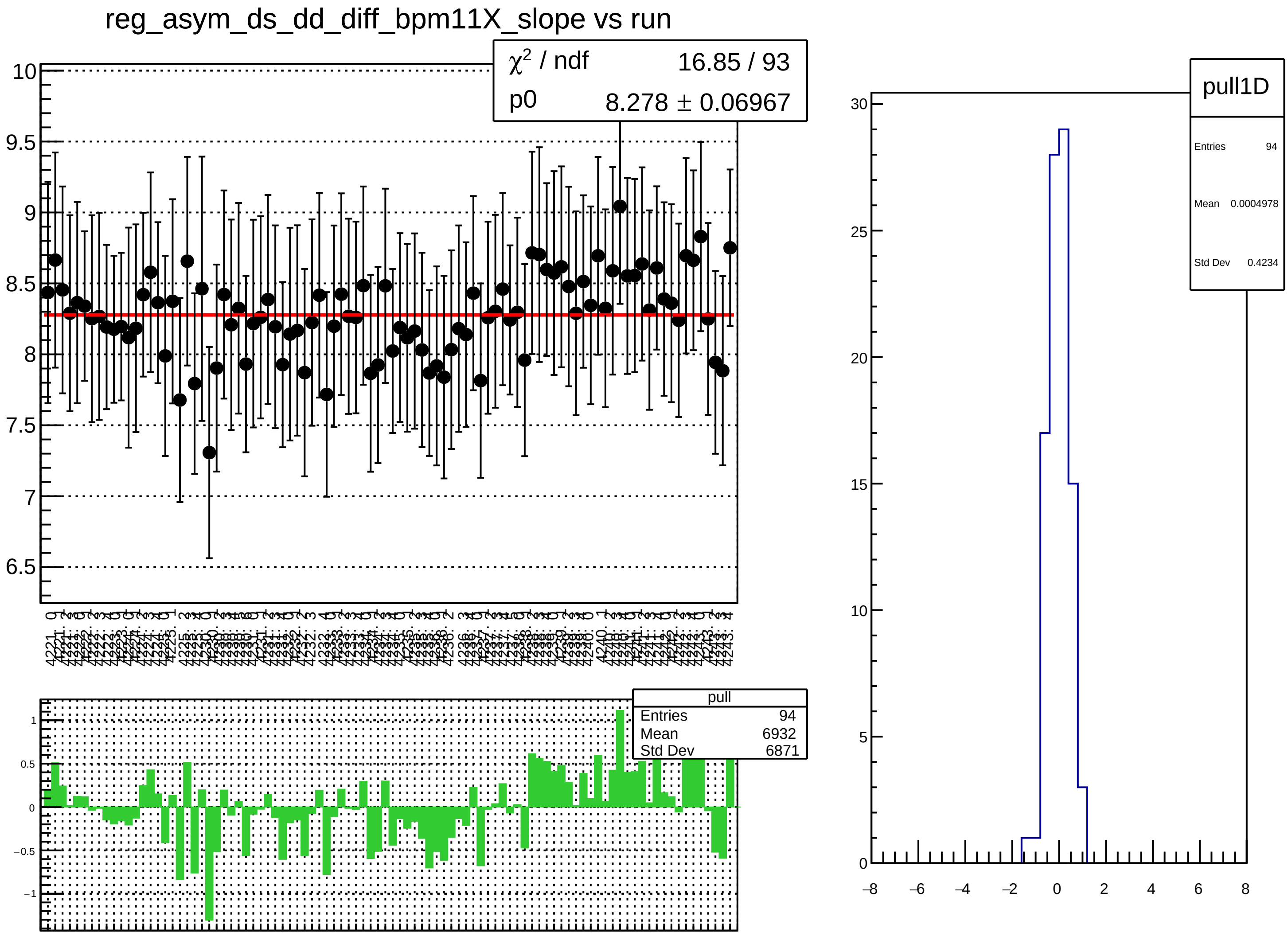


reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 535.1 / 93
p0 1.776 ± 0.2221
pull
Entries 94
Mean 41.8
Std Dev 44.29
pull1D
Entries 94
Mean −0.2736
Std Dev 2.047



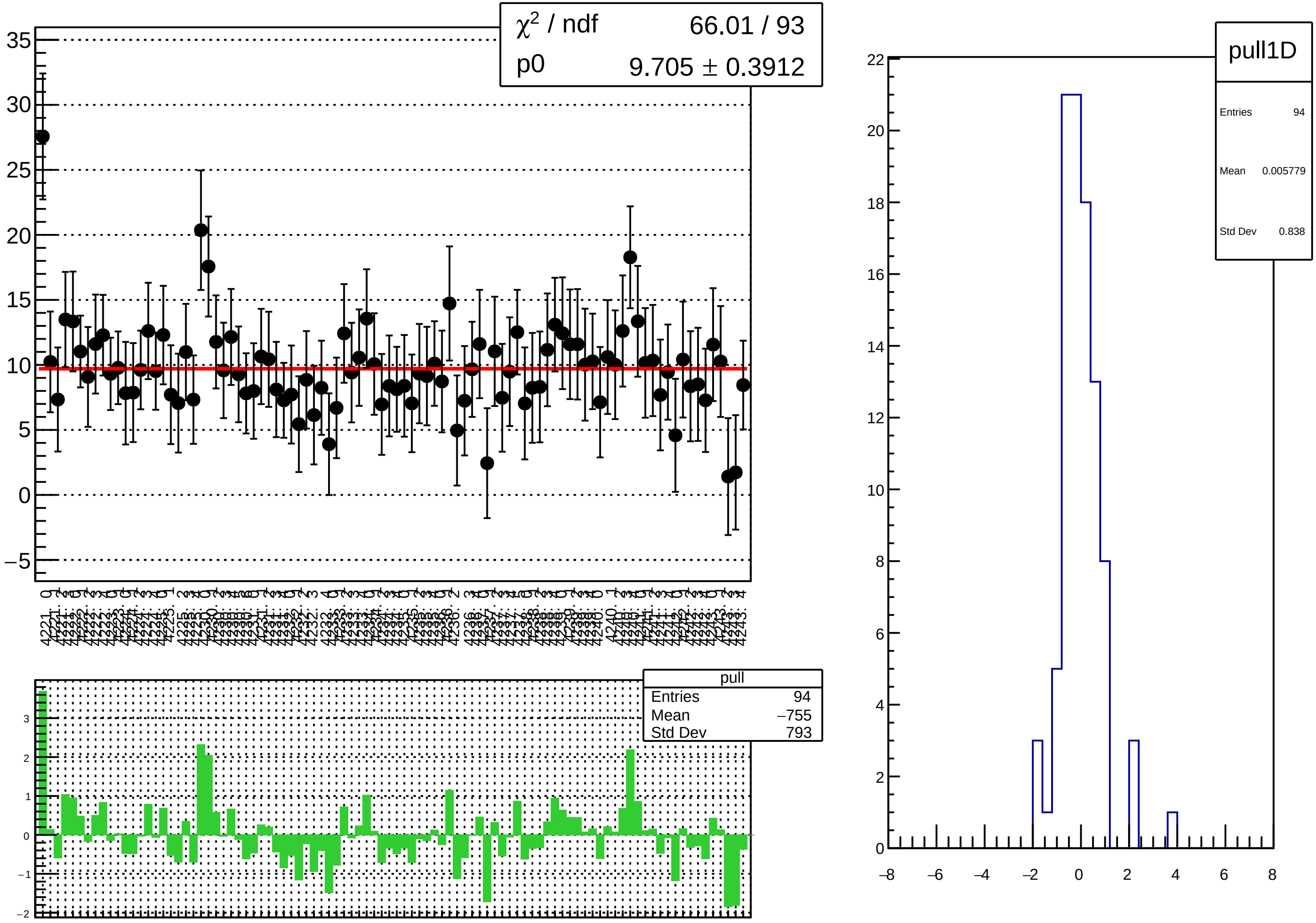
reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 62.44 / 93
p0 −45 ± 0.05449
pull
Entries 94
Mean 1637
Std Dev 1585
pull1D
Entries 94
Mean −0.005537
Std Dev 0.815

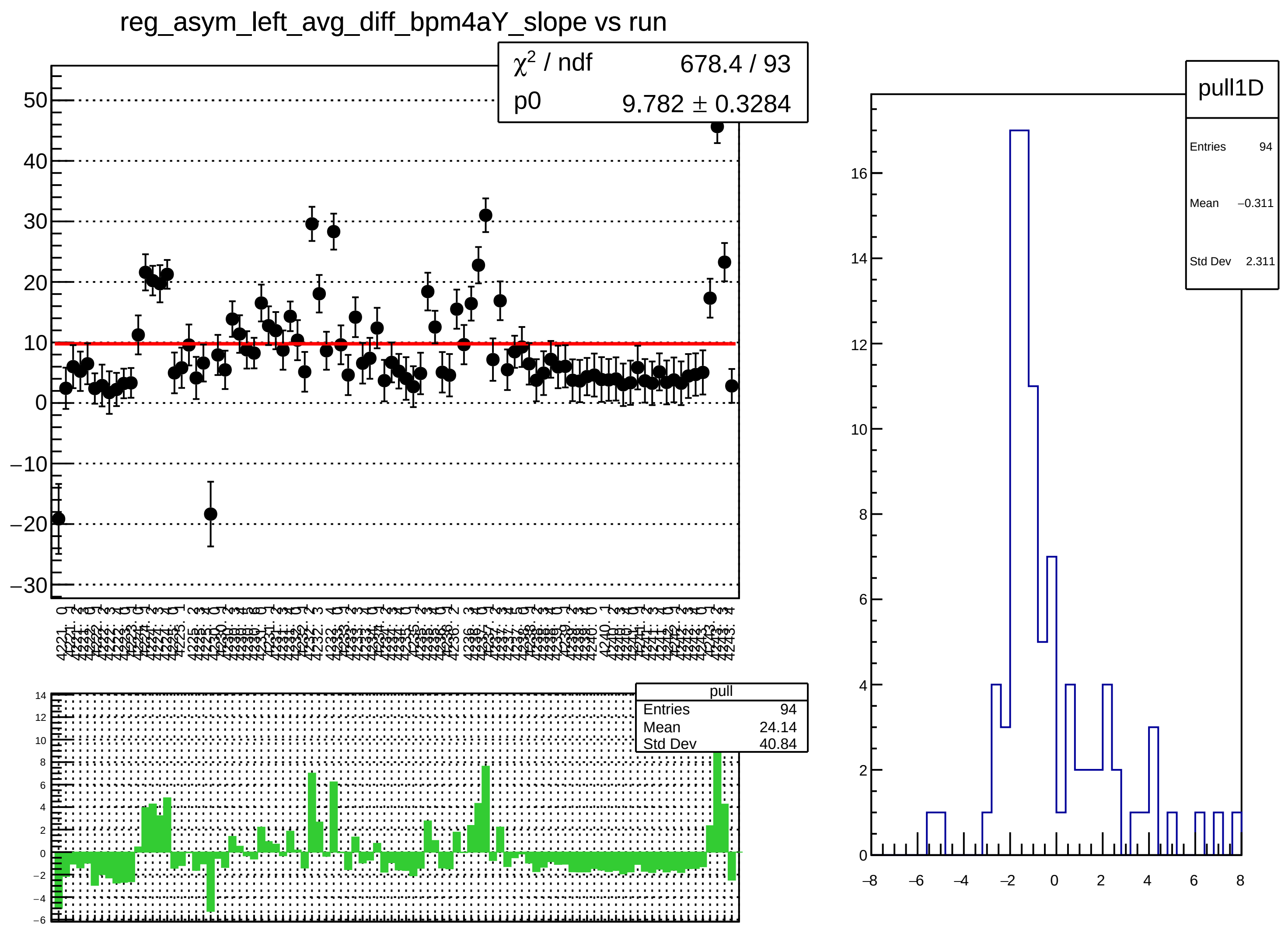

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ2 / ndf 558.7 / 93
p0 −4.174 ± 0.3658
pull
Entries 94
Mean 34.77
Std Dev 42.85
pull1D
Entries 94
Mean 0.2729
Std Dev 2.087



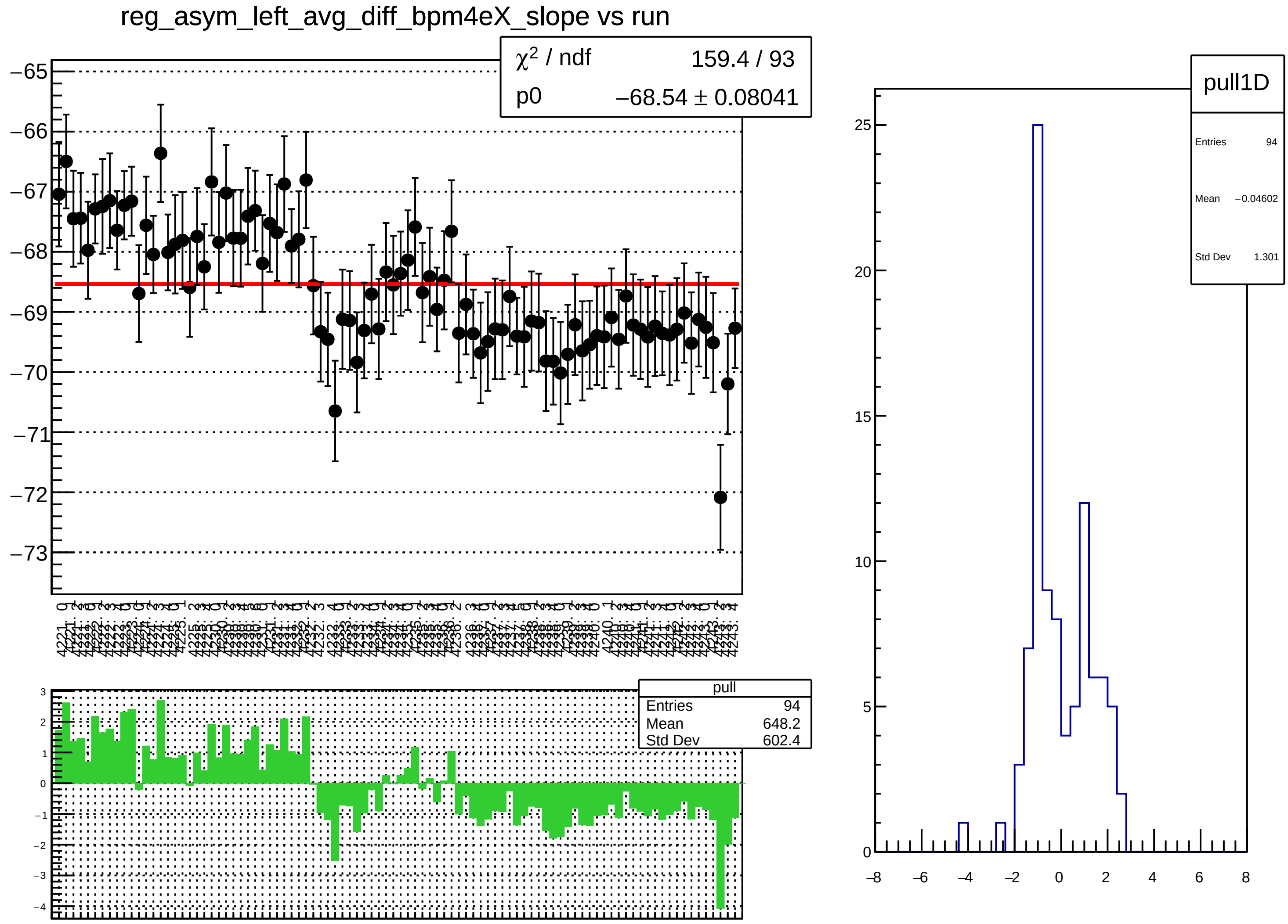
reg_asym_ds_dd_diff_bpm11X_slope vs run
χ^2 / ndf 16.85 / 93
p0 8.278 ± 0.06967
pull
Entries 94
Mean 6932
Std Dev 6871
pull1D
Entries 94
Mean 0.0004978
Std Dev 0.4234

reg_asym_left_avg_diff_bpm4aX_slope vs run

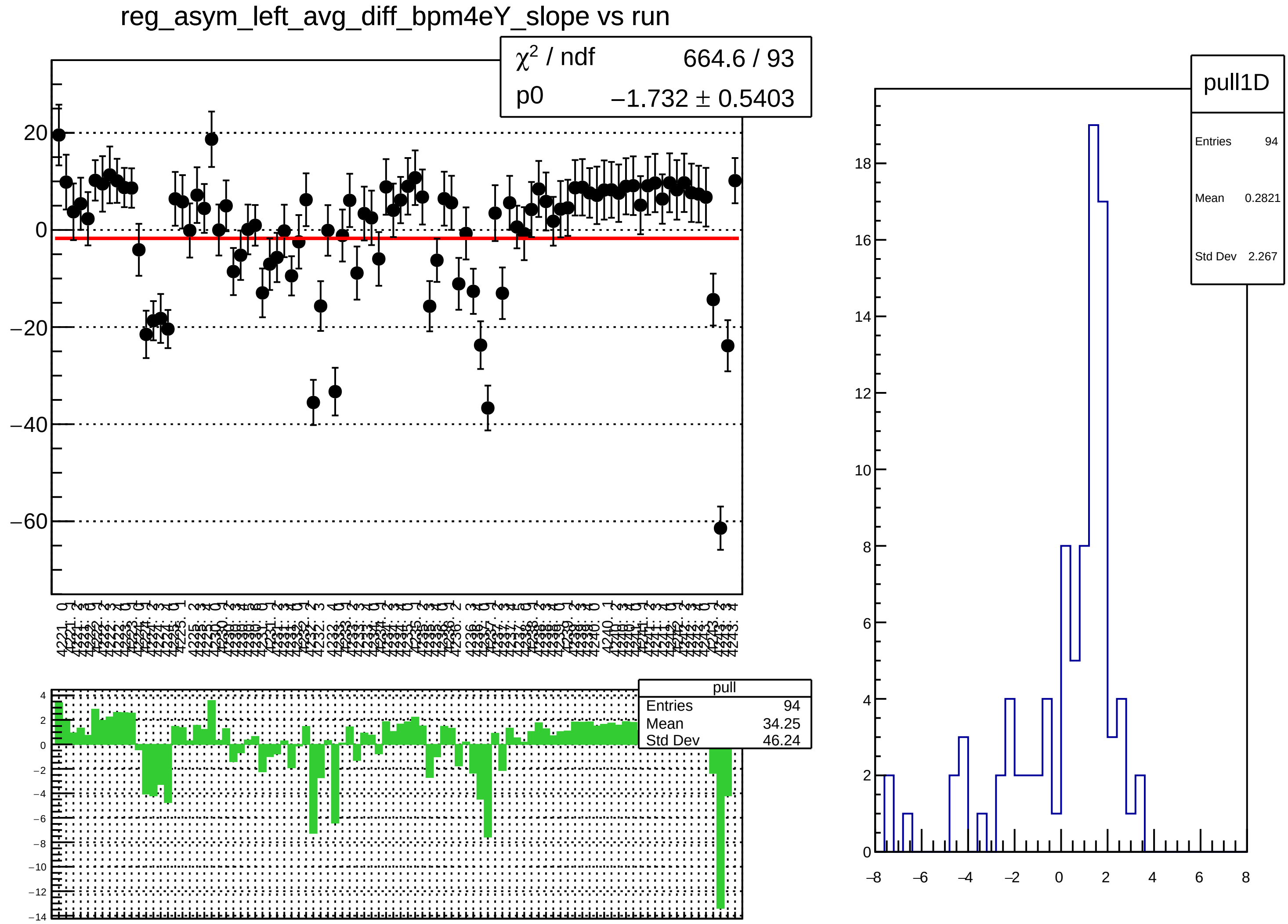




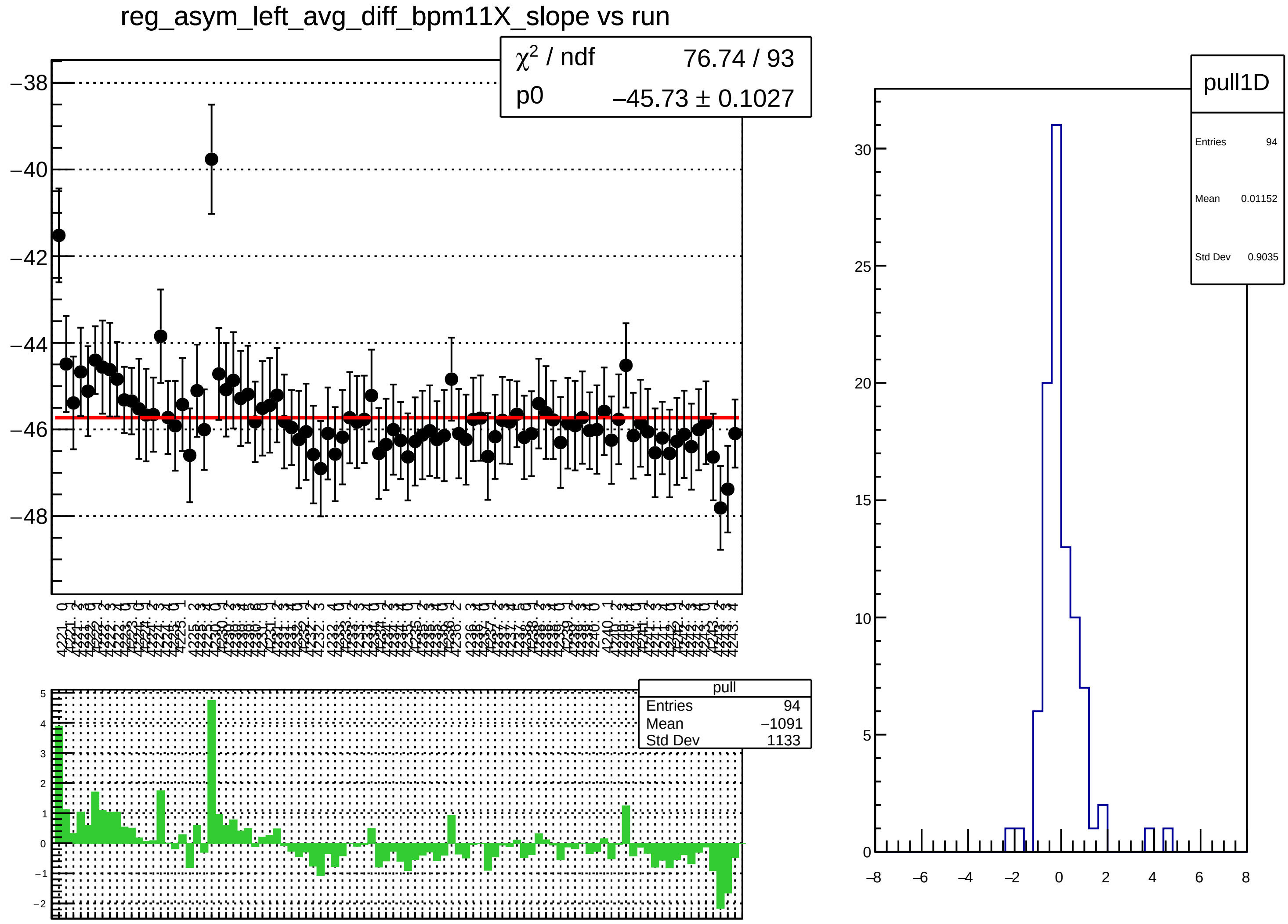
reg_asym_left_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 678.4 / 93
p0 9.782 ± 0.3284
pull
Entries 94
Mean 24.14
Std Dev 40.84
pull1D
Entries 94
Mean −0.311
Std Dev 2.311



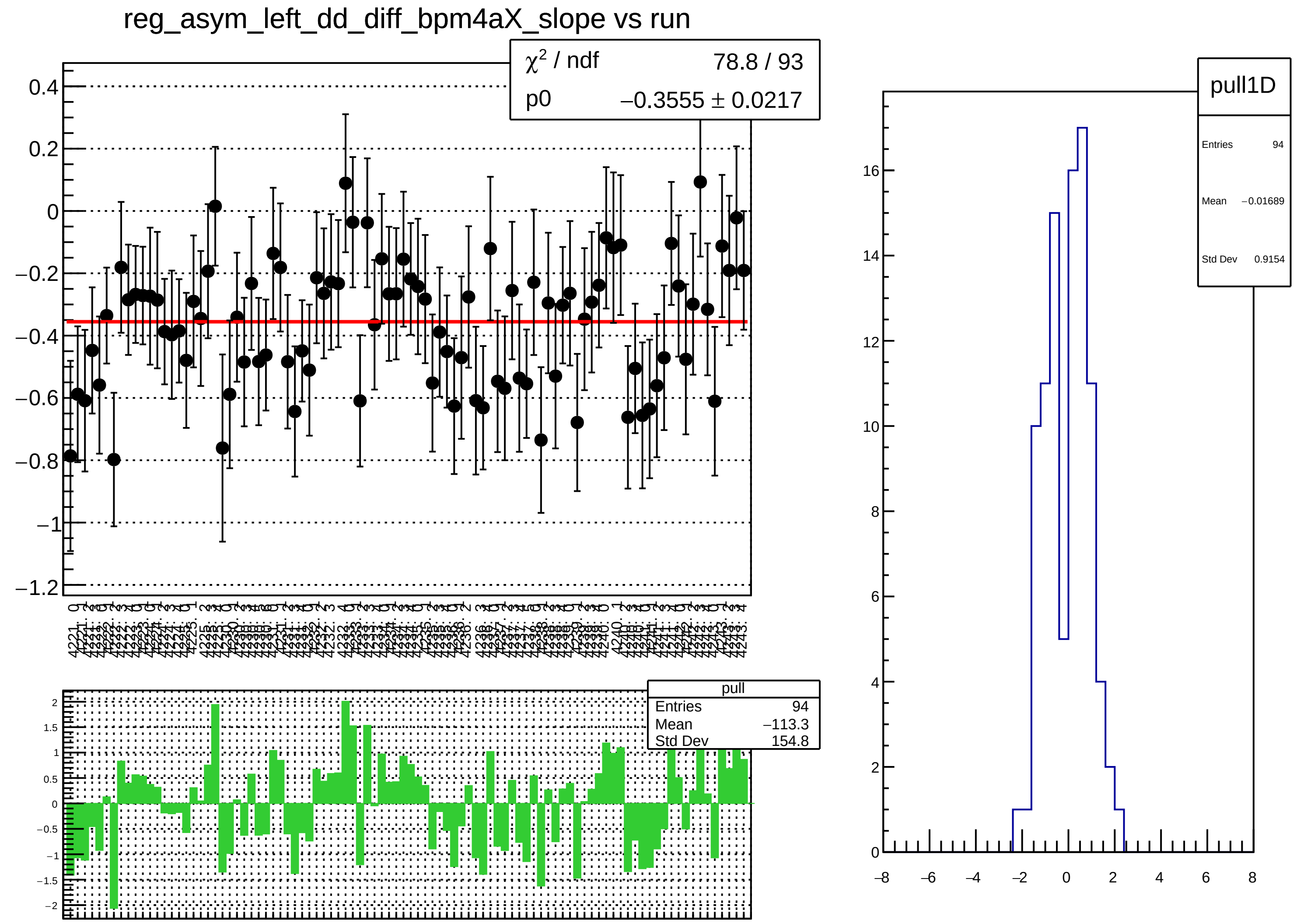
reg_asym_left_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 159.4 / 93
p0 −68.54 ± 0.08041
pull
Entries 94
Mean 648.2
Std Dev 602.4
pull1D
Entries 94
Mean −0.04602
Std Dev 1.301



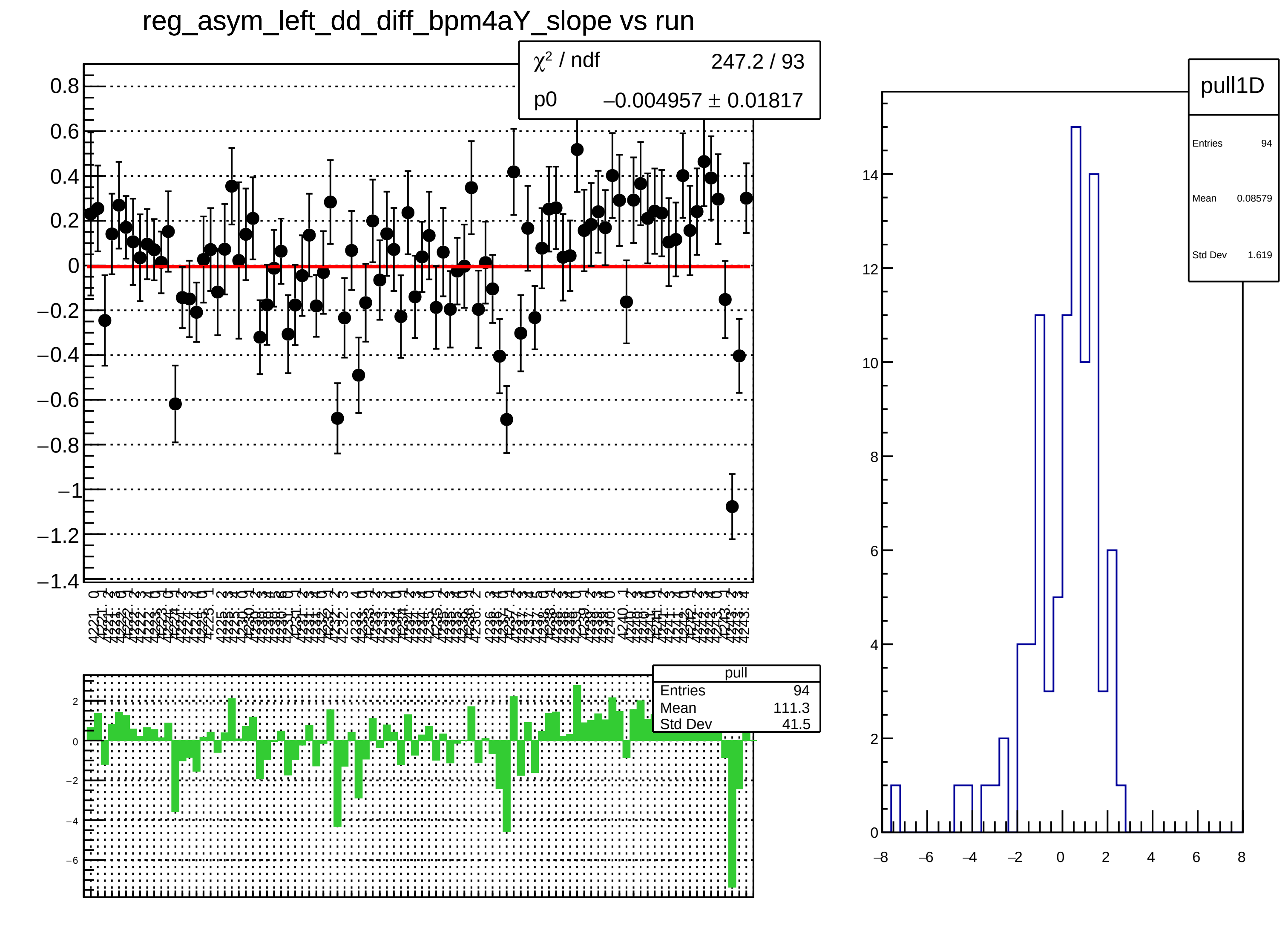
reg_asym_left_avg_diff_bpm4eY_slope vs run
χ2 / ndf 664.6 / 93
p0 −1.732 ± 0.5403
pull
Entries 94
Mean 34.25
Std Dev 46.24
pull1D
Entries 94
Mean 0.2821
Std Dev 2.267



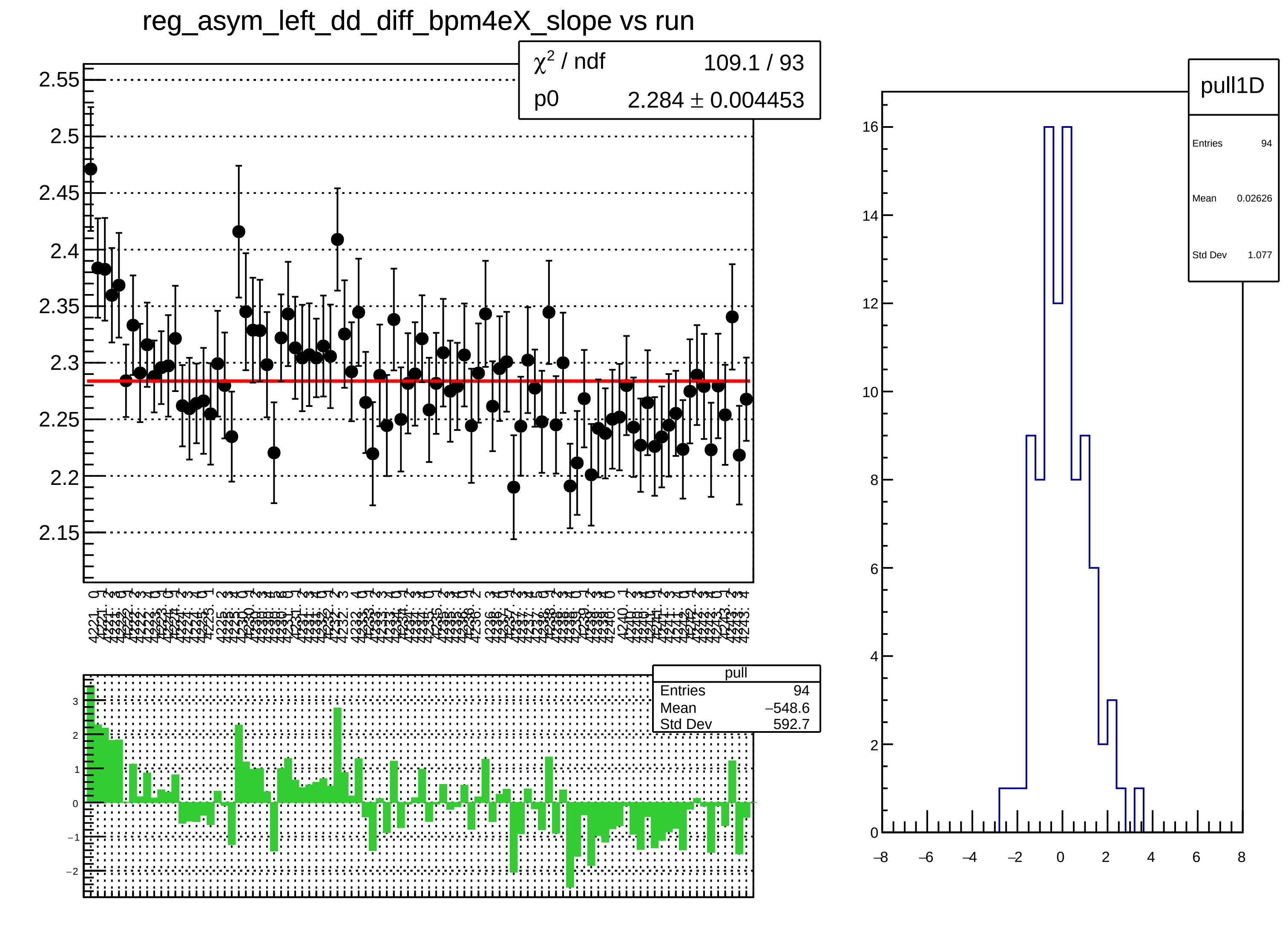
reg_asym_left_avg_diff_bpm11X_slope vs run
χ2 / ndf 76.74 / 93
p0 −45.73 ± 0.1027
−38
−40
−42
−44
−46
−48
pull
Entries 94
Mean −1091
Std Dev 1133
5
4
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01152
Std Dev 0.9035
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



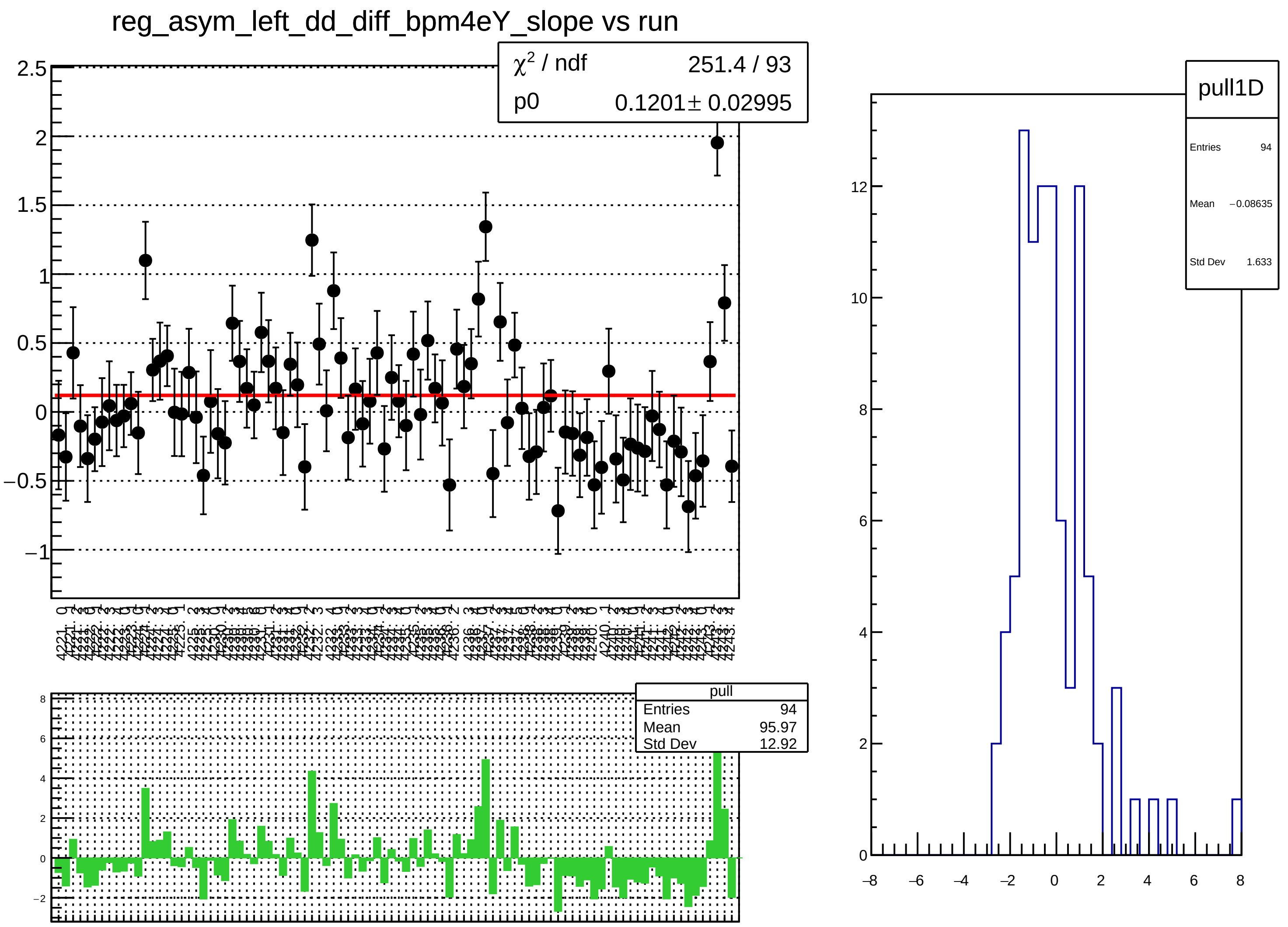
reg_asym_left_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 78.8 / 93
p0 −0.3555 ± 0.0217
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 94
Mean −113.3
Std Dev 154.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.01689
Std Dev 0.9154
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



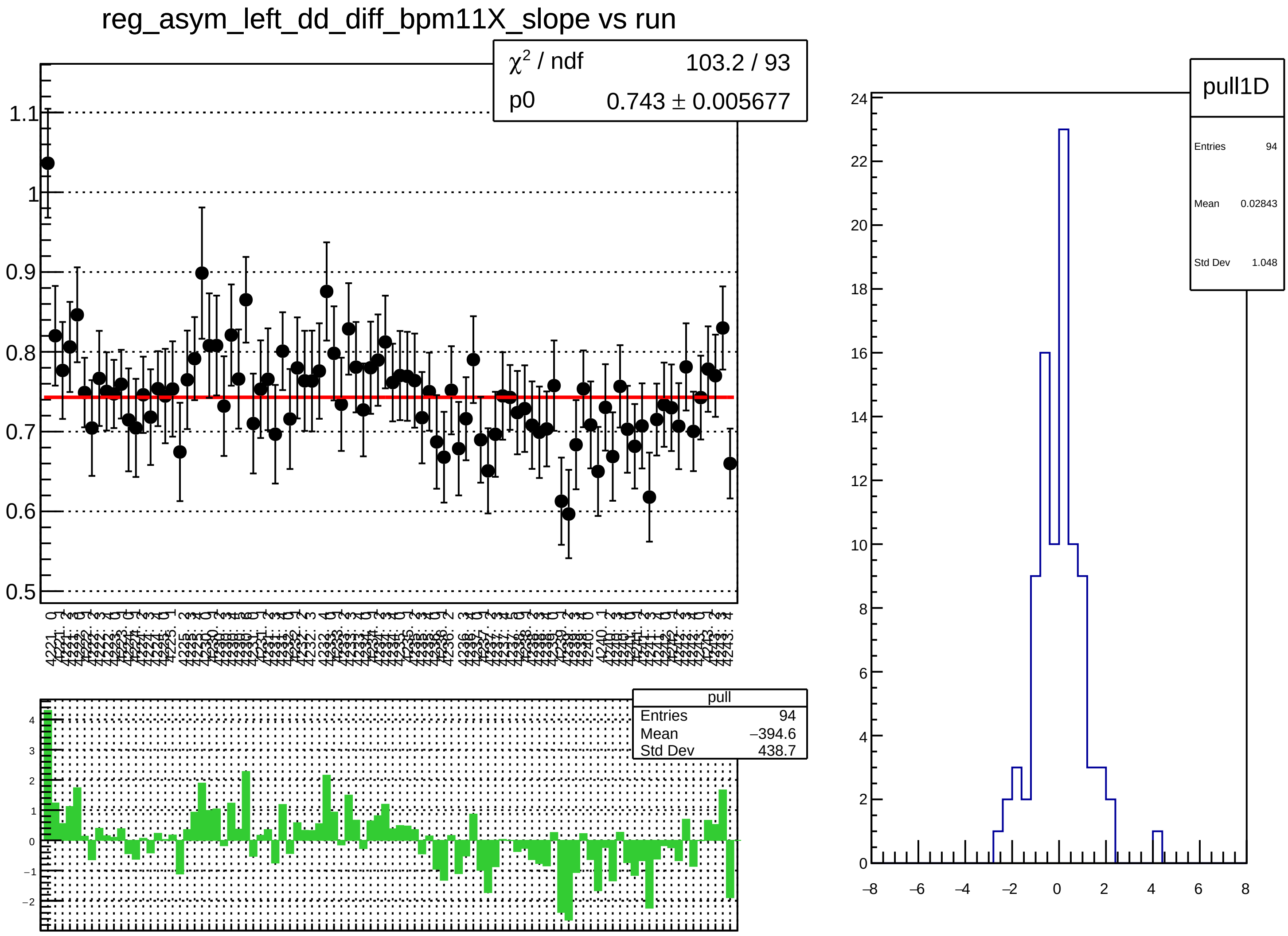
reg_asym_left_dd_diff_bpm4aY_slope vs run
χ2 / ndf 247.2 / 93
p0 −0.004957 ± 0.01817
pull
Entries 94
Mean 111.3
Std Dev 41.5
pull1D
Entries 94
Mean 0.08579
Std Dev 1.619



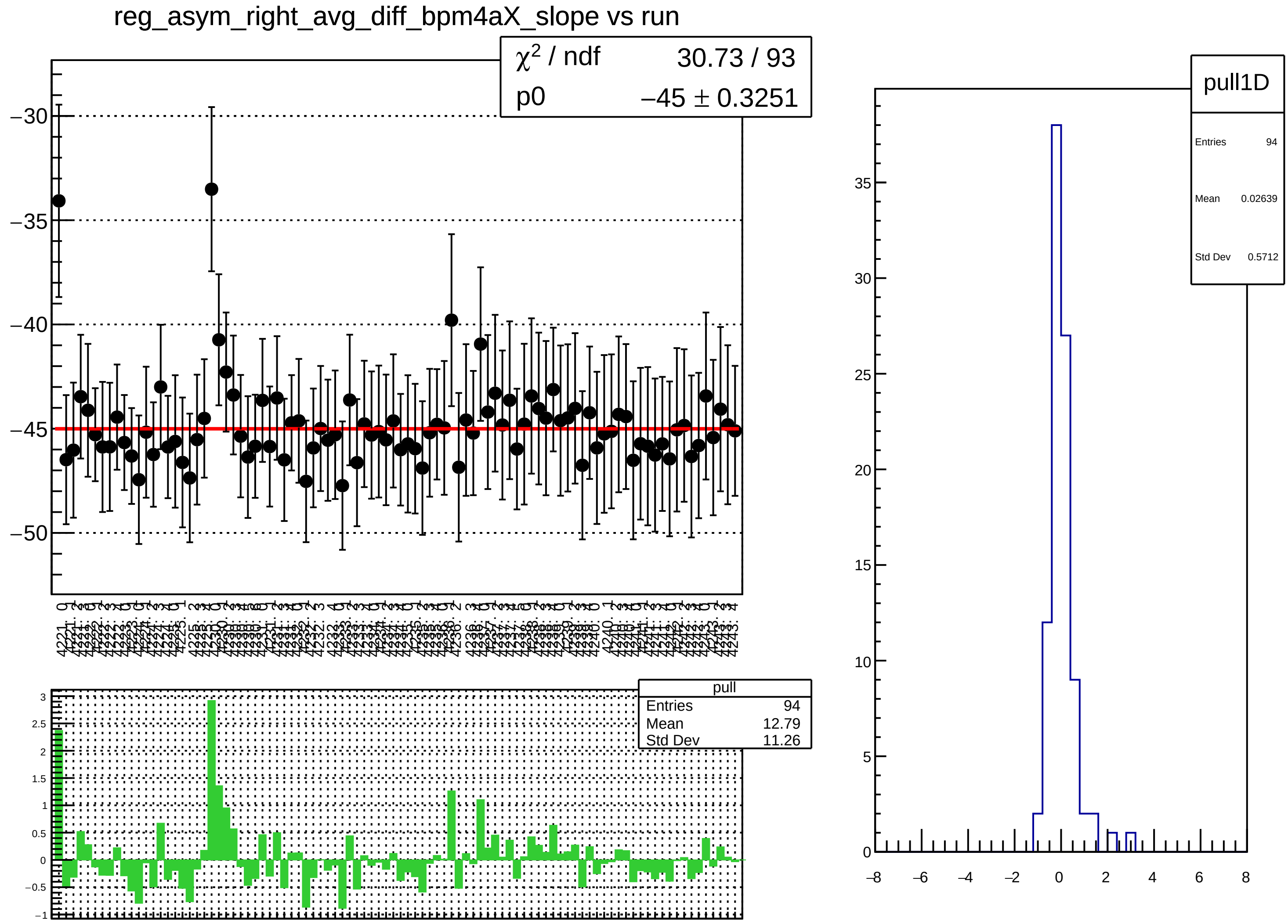
reg_asym_left_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 109.1 / 93
p0 2.284 ± 0.004453
2.55
2.5
2.45
2.4
2.35
2.3
2.25
2.2
2.15
pull
Entries 94
Mean −548.6
Std Dev 592.7
pull1D
Entries 94
Mean 0.02626
Std Dev 1.077



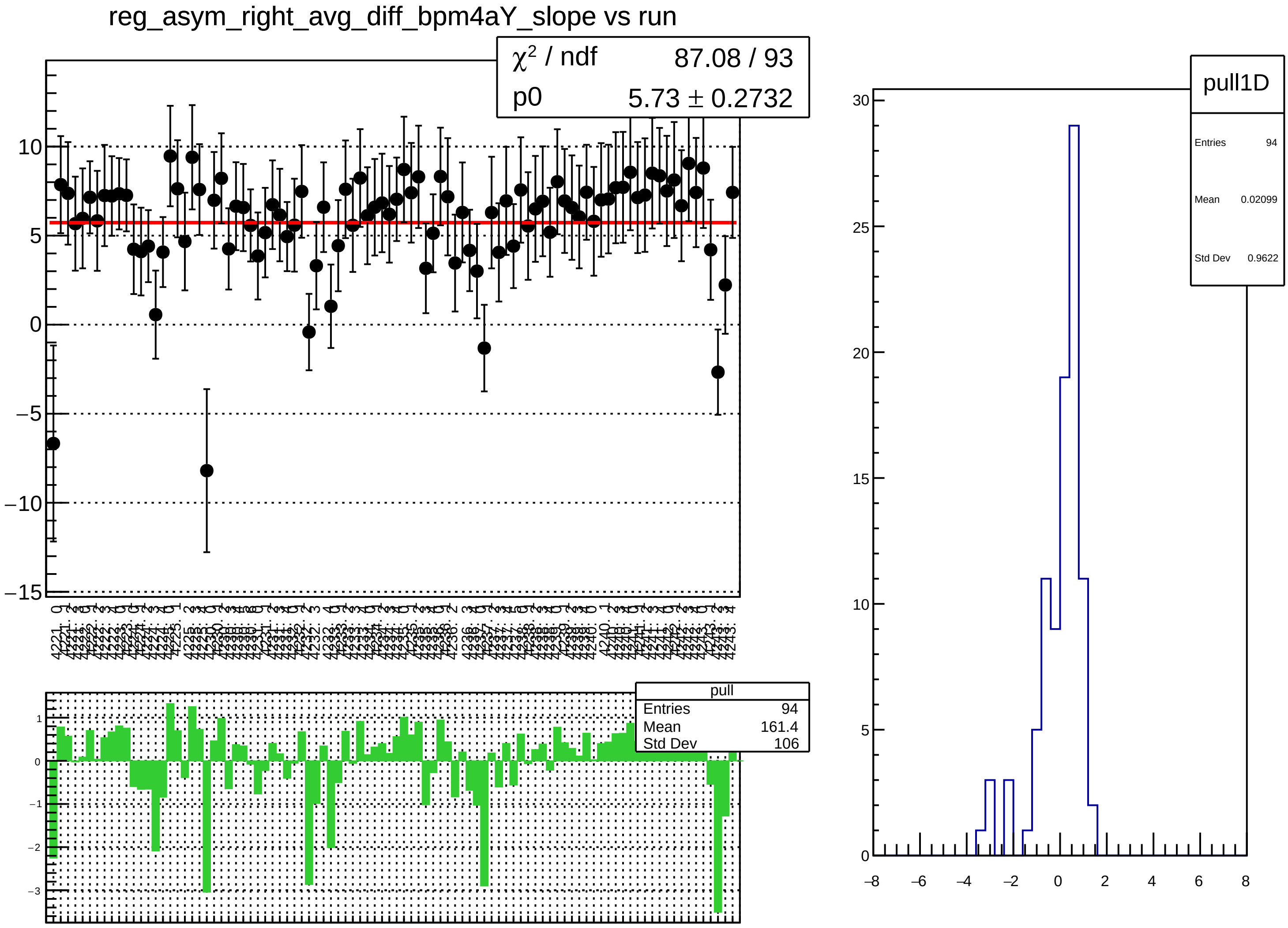
reg_asym_left_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 251.4 / 93
p0 0.1201 ± 0.02995
pull
Entries 94
Mean 95.97
Std Dev 12.92
pull1D
Entries 94
Mean −0.08635
Std Dev 1.633



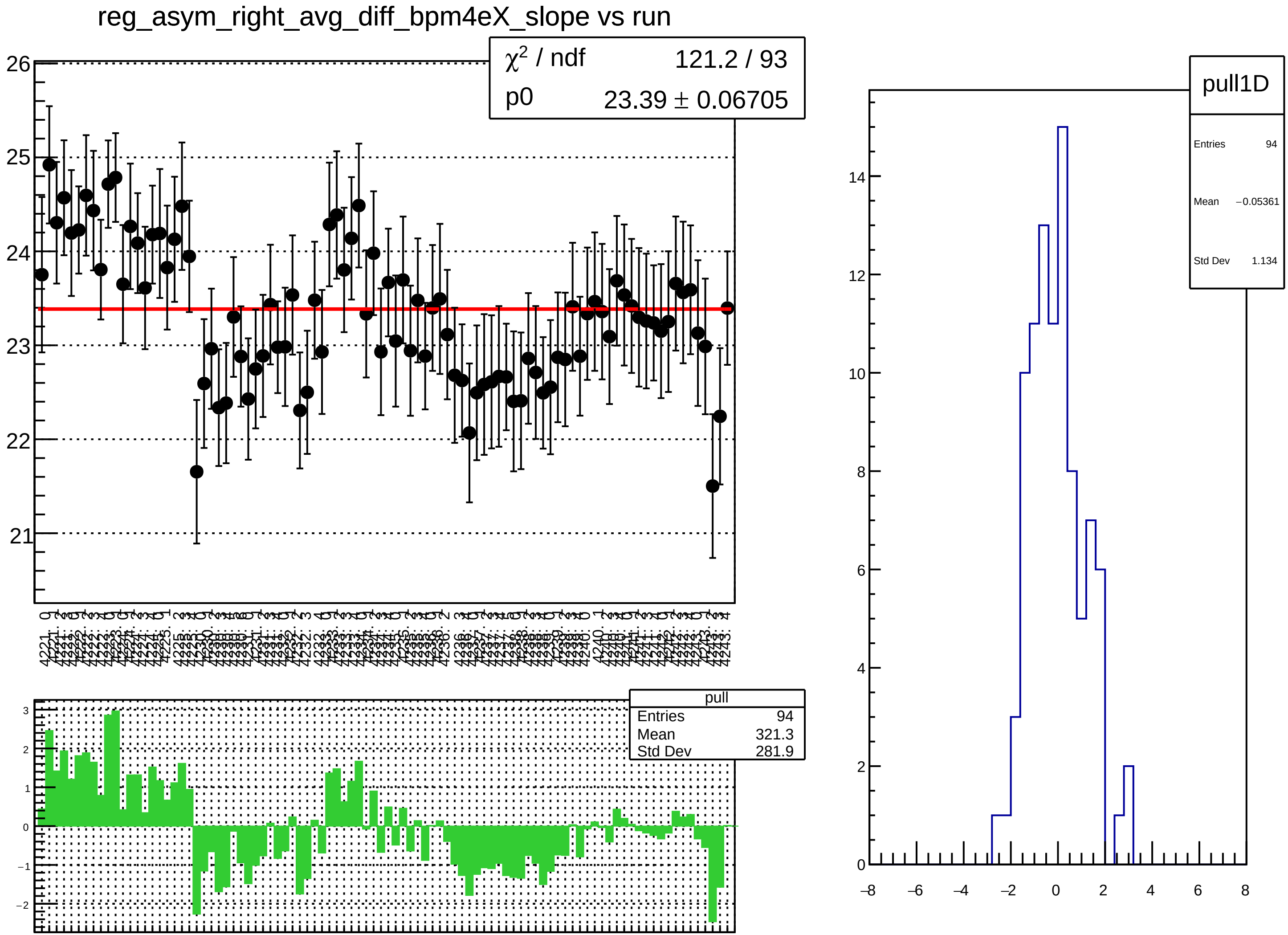
reg_asym_left_dd_diff_bpm11X_slope vs run
χ^2 / ndf 103.2 / 93
p0 0.743 ± 0.005677
pull
Entries 94
Mean −394.6
Std Dev 438.7
pull1D
Entries 94
Mean 0.02843
Std Dev 1.048



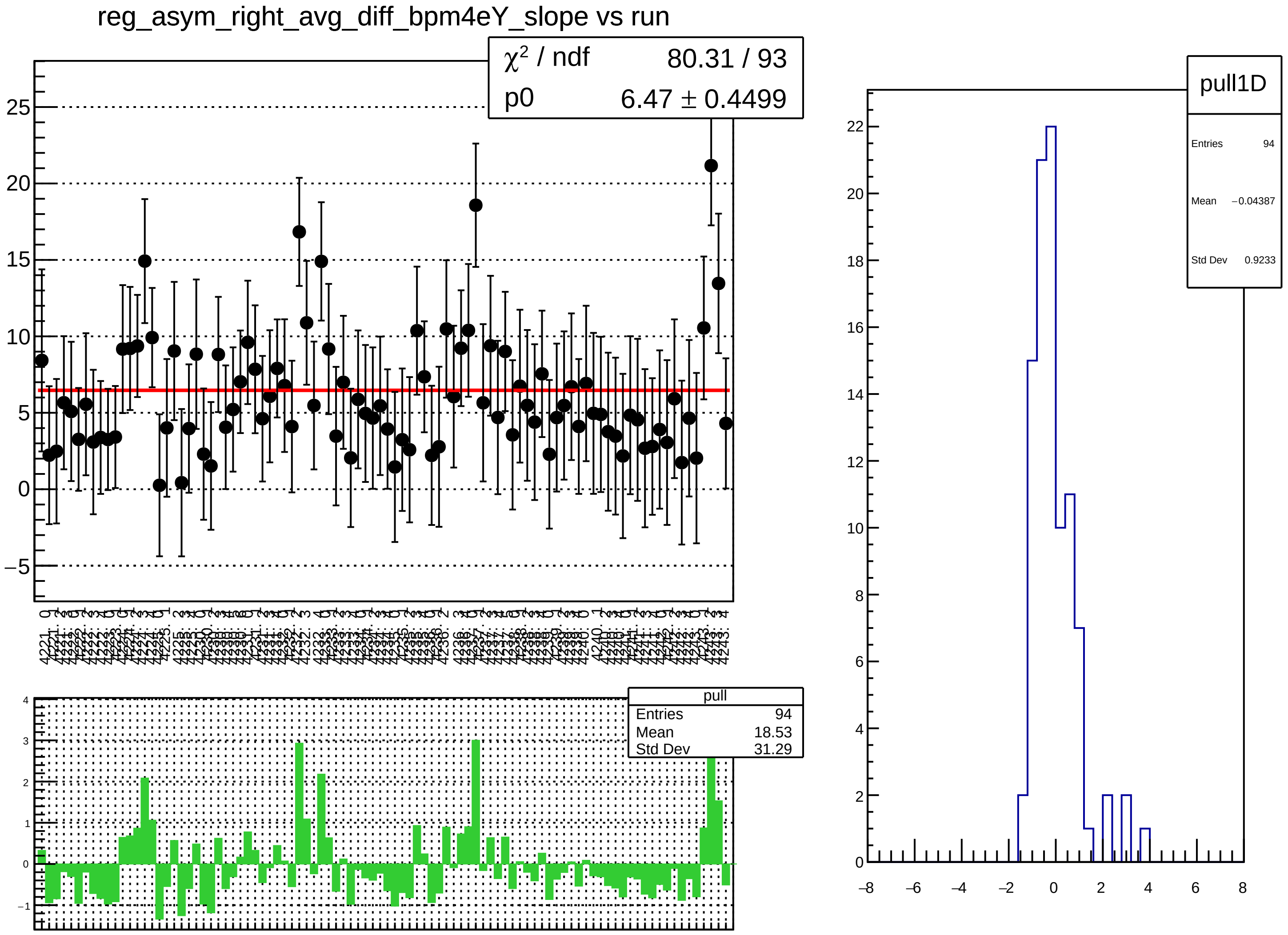
reg_asym_right_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 30.73 / 93
p0 −45 ± 0.3251
pull
Entries 94
Mean 12.79
Std Dev 11.26
pull1D
Entries 94
Mean 0.02639
Std Dev 0.5712

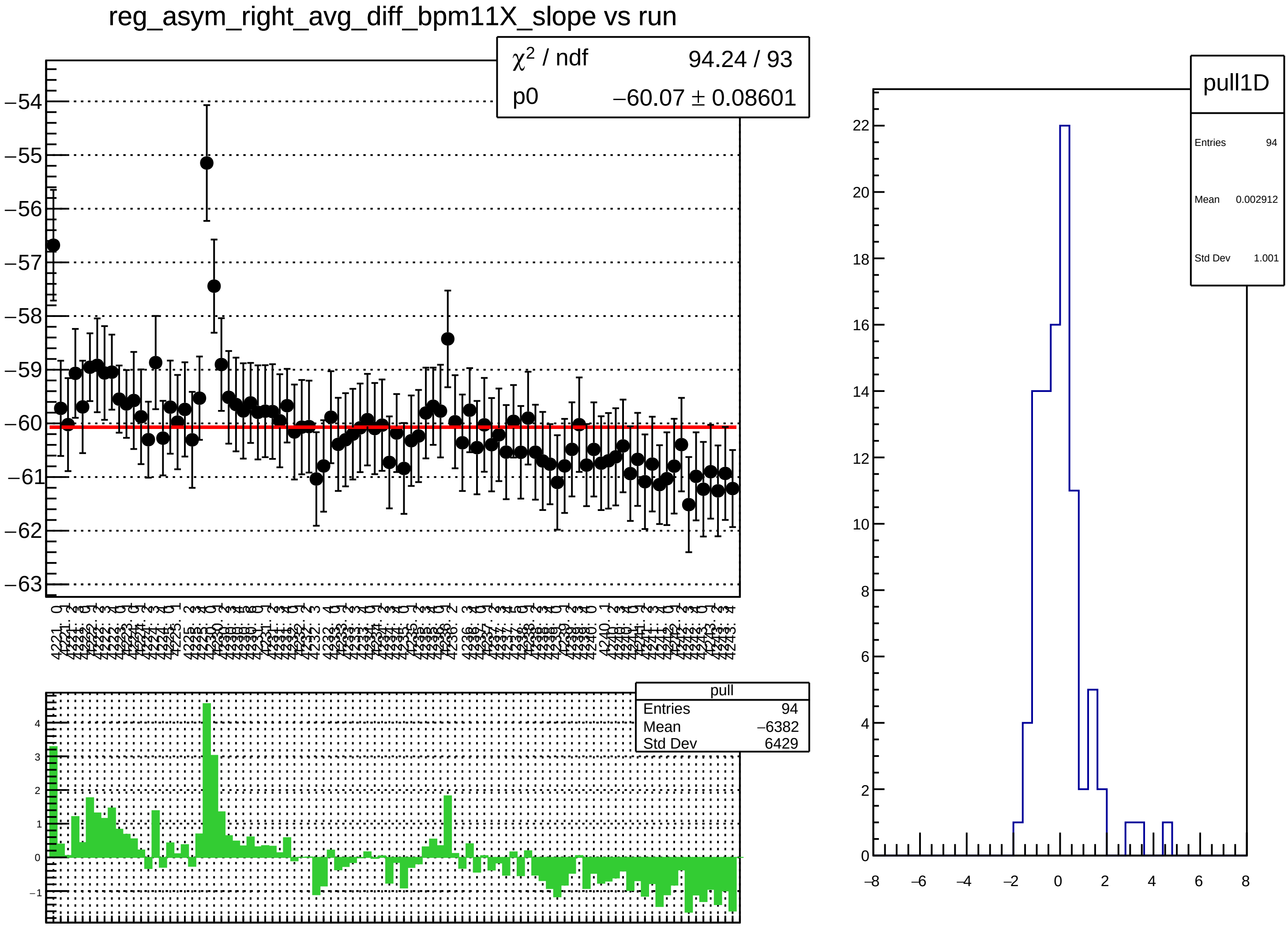


reg_asym_right_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 87.08 / 93
p0 5.73 ± 0.2732
pull
Entries 94
Mean 161.4
Std Dev 106
pull1D
Entries 94
Mean 0.02099
Std Dev 0.9622

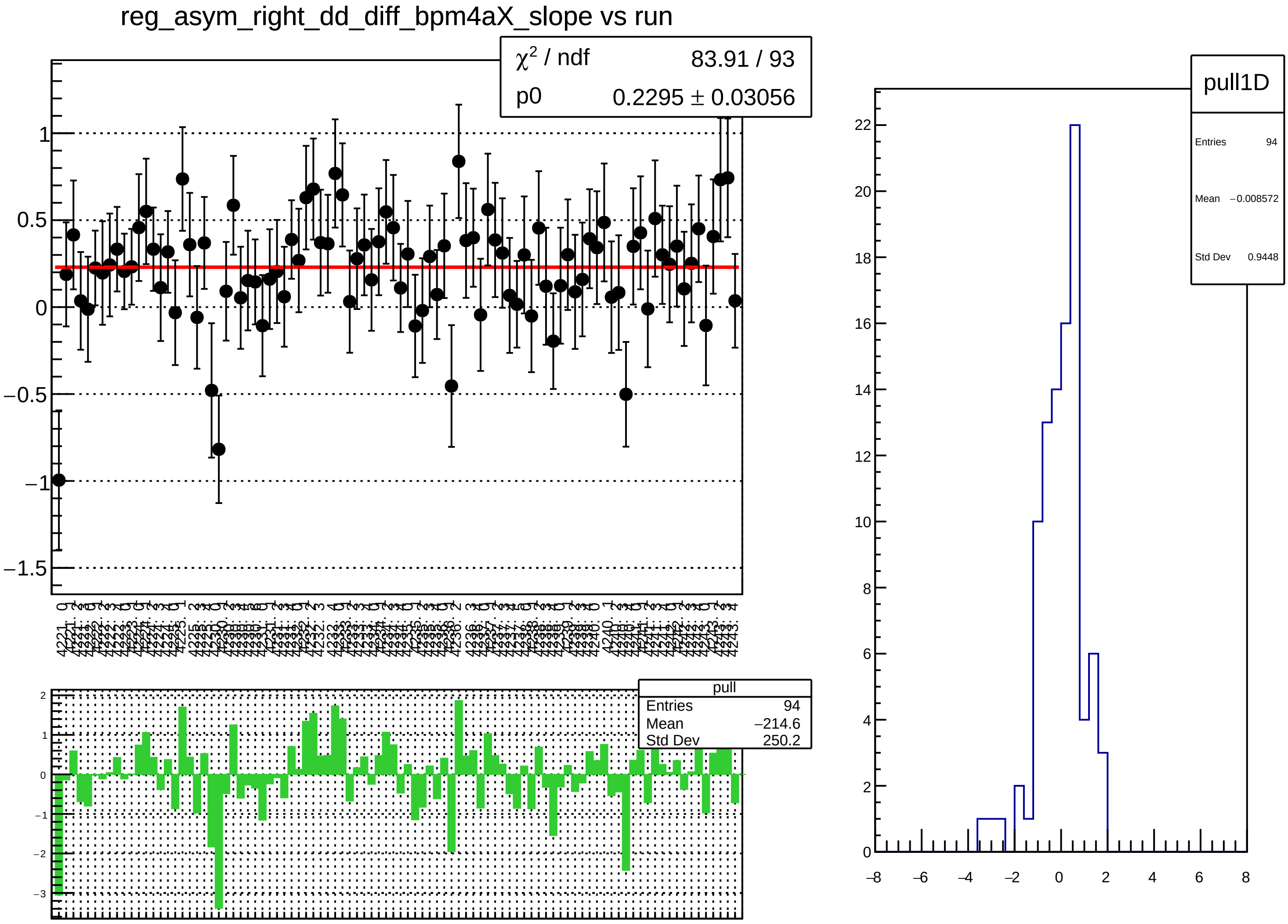


reg_asym_right_avg_diff_bpm4eX_slope vs run
χ2 / ndf 121.2 / 93
p0 23.39 ± 0.06705
pull
Entries 94
Mean 321.3
Std Dev 281.9
pull1D
Entries 94
Mean −0.05361
Std Dev 1.134

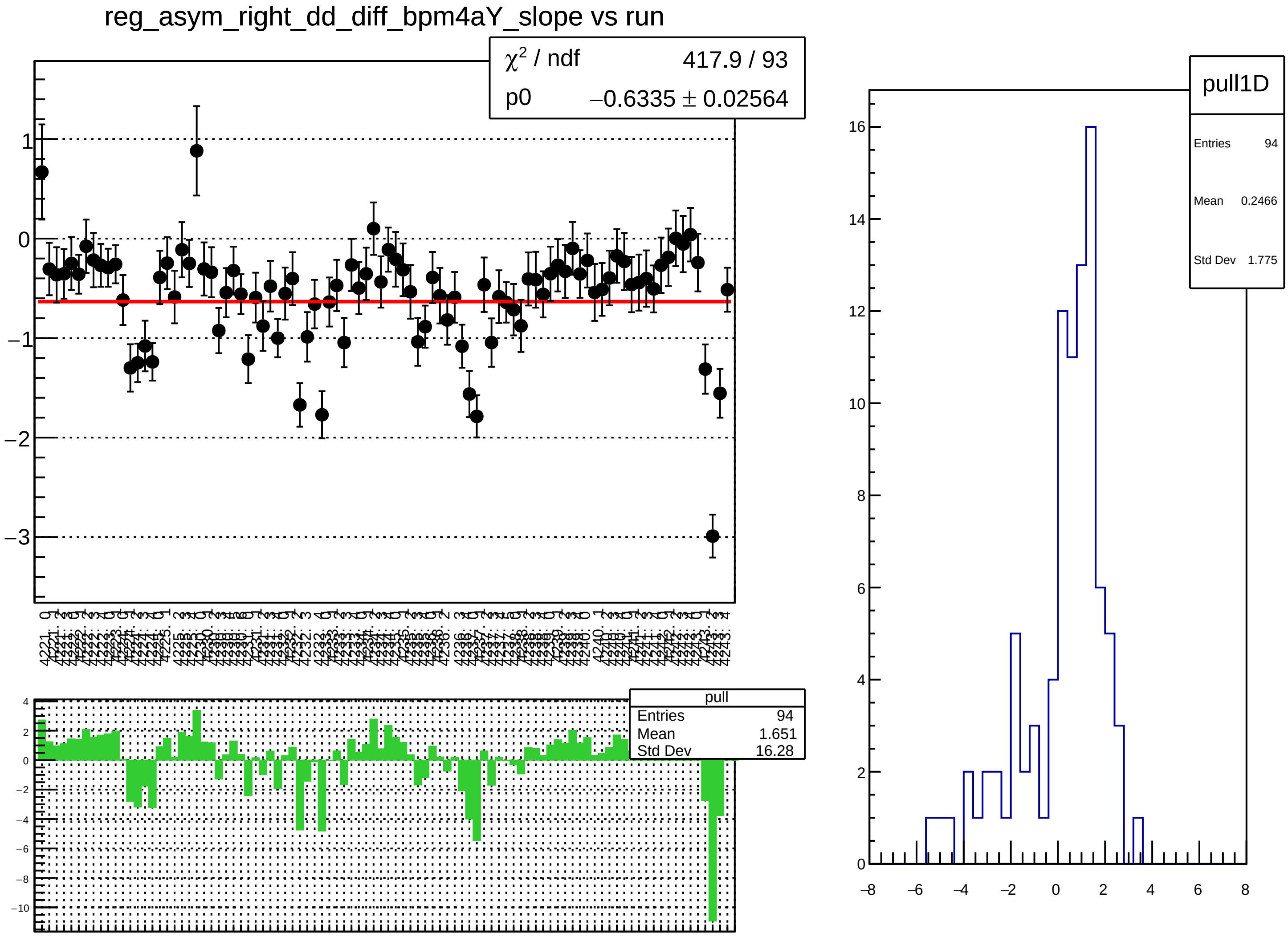

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ2 / ndf 80.31 / 93
p0 6.47 ± 0.4499
pull
Entries 94
Mean 18.53
Std Dev 31.29
pull1D
Entries 94
Mean −0.04387
Std Dev 0.9233



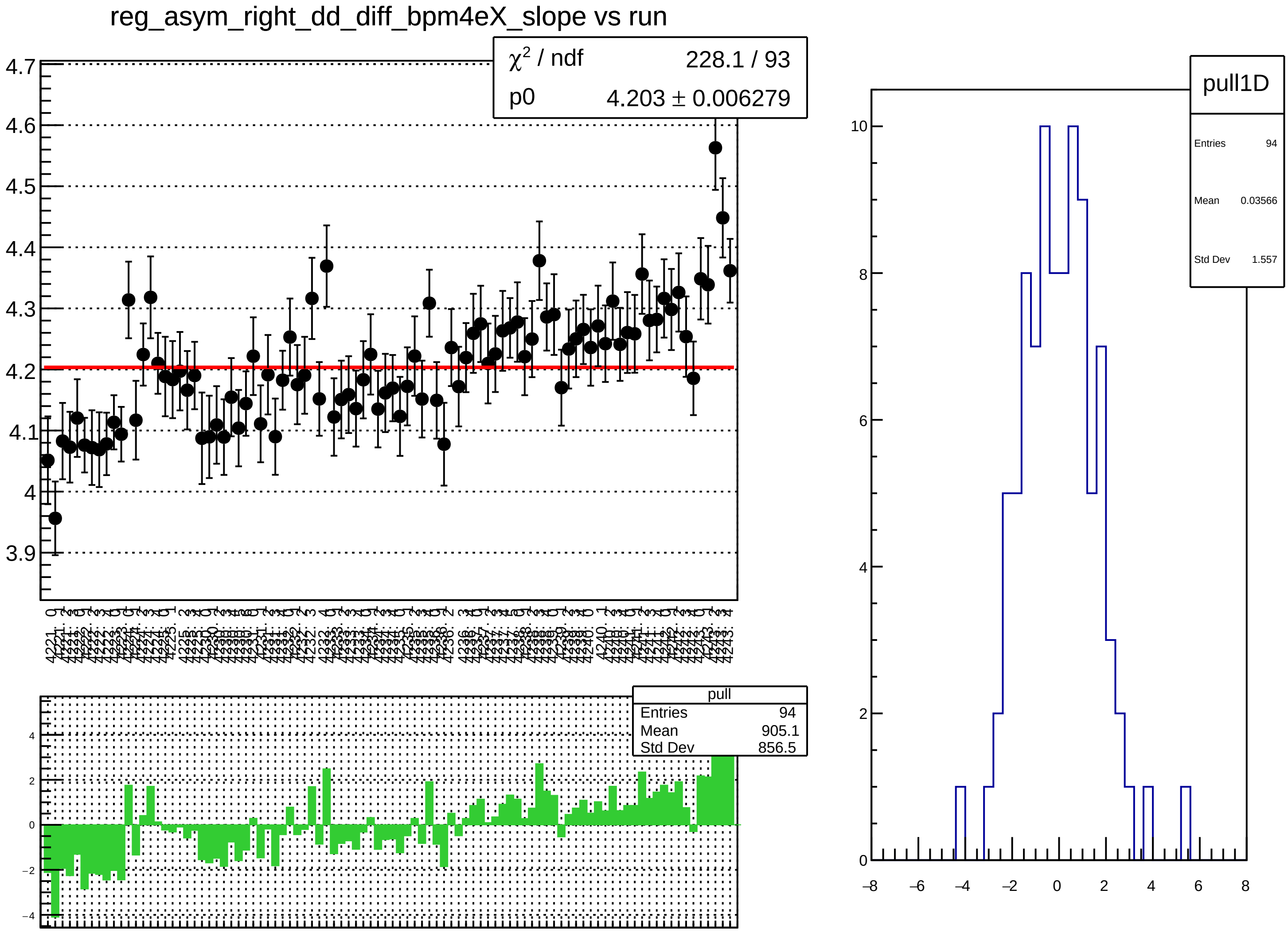
reg_asym_right_avg_diff_bpm11X_slope vs run
χ^2 / ndf 94.24 / 93
p0 −60.07 ± 0.08601
pull
Entries 94
Mean −6382
Std Dev 6429
pull1D
Entries 94
Mean 0.002912
Std Dev 1.001



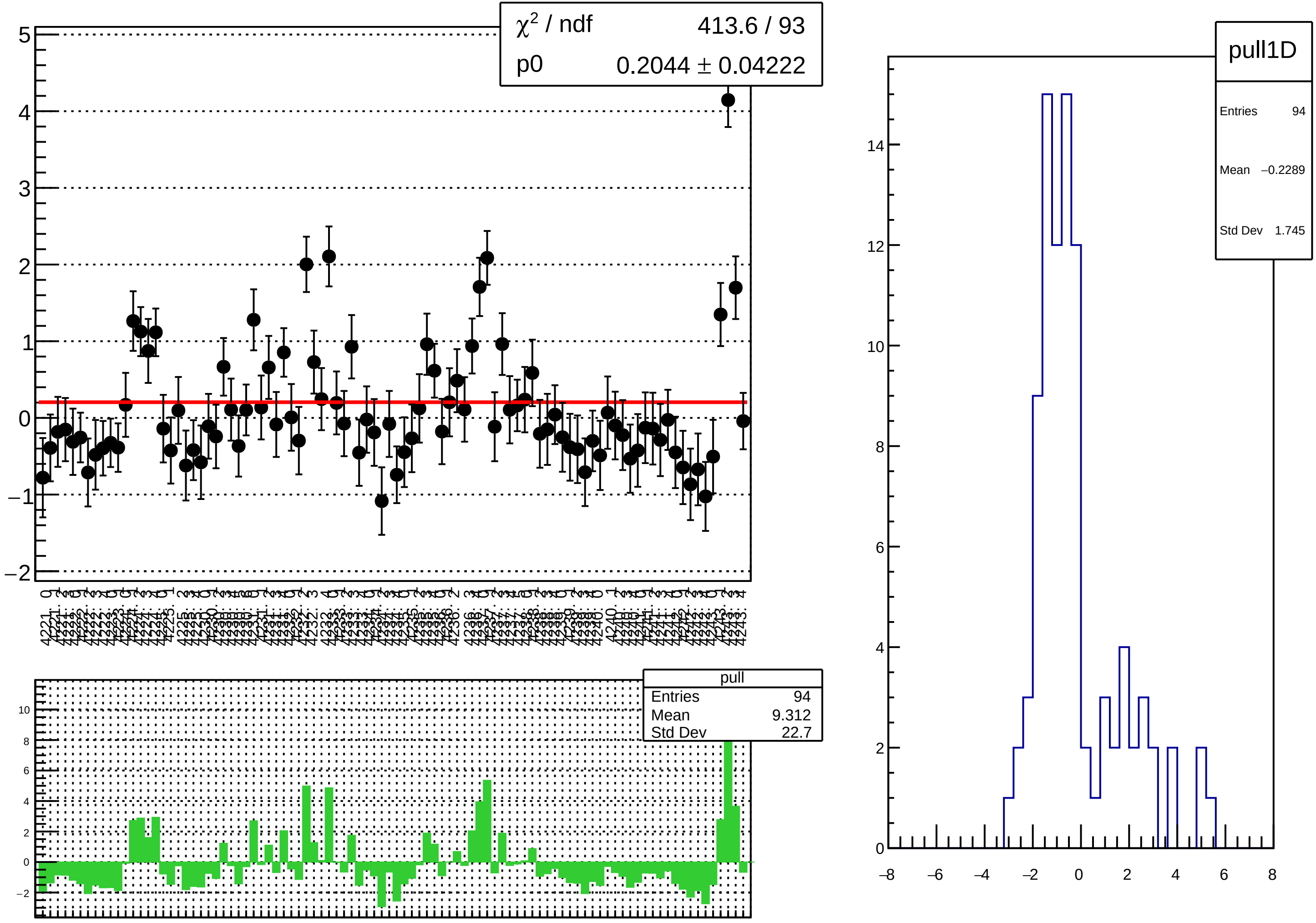
reg_asym_right_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 83.91 / 93
p0 0.2295 ± 0.03056
pull
Entries 94
Mean −214.6
Std Dev 250.2
pull1D
Entries 94
Mean −0.008572
Std Dev 0.9448

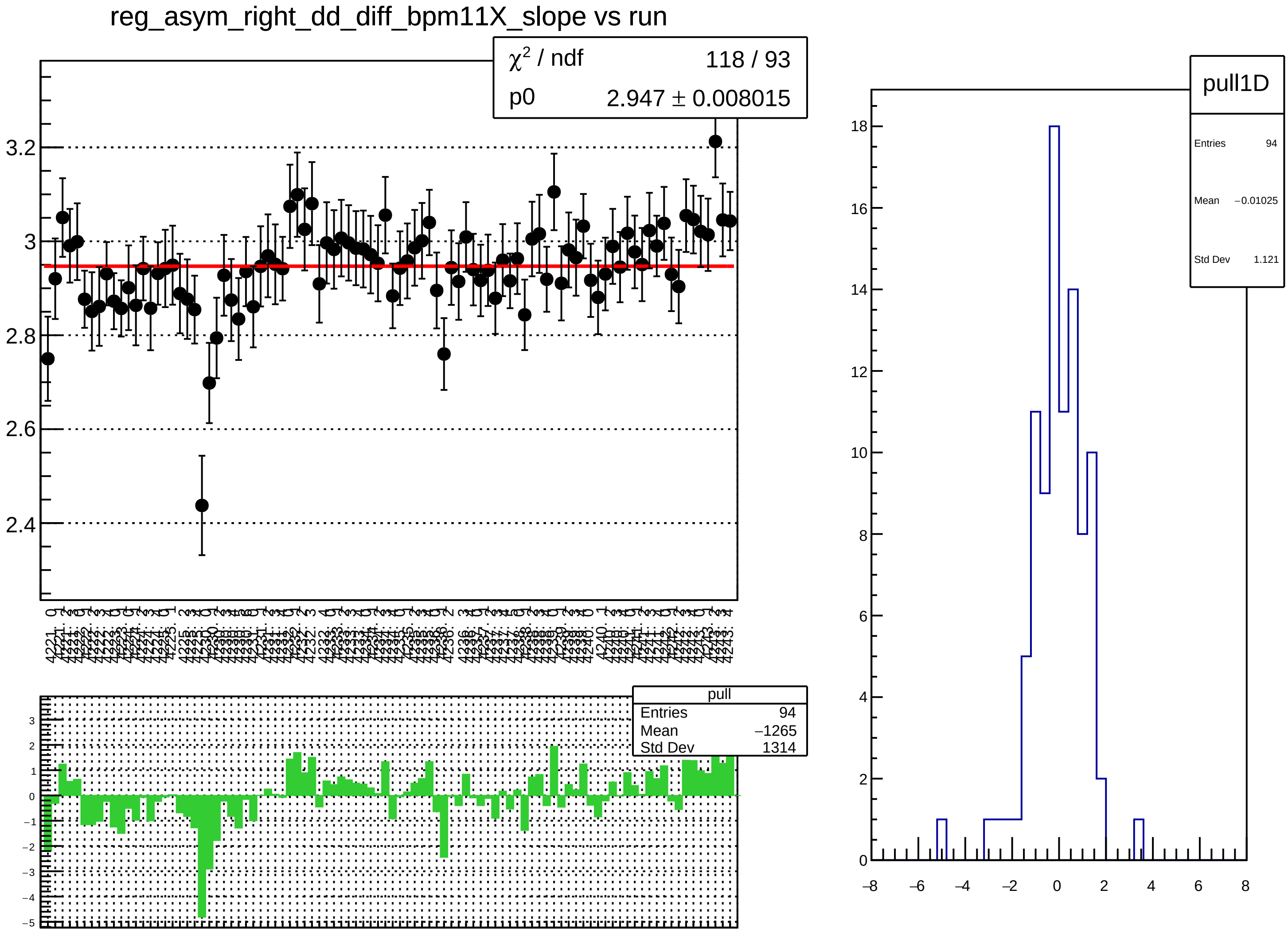


reg_asym_right_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 417.9 / 93
p0 −0.6335 ± 0.02564
pull
Entries 94
Mean 1.651
Std Dev 16.28
pull1D
Entries 94
Mean 0.2466
Std Dev 1.775

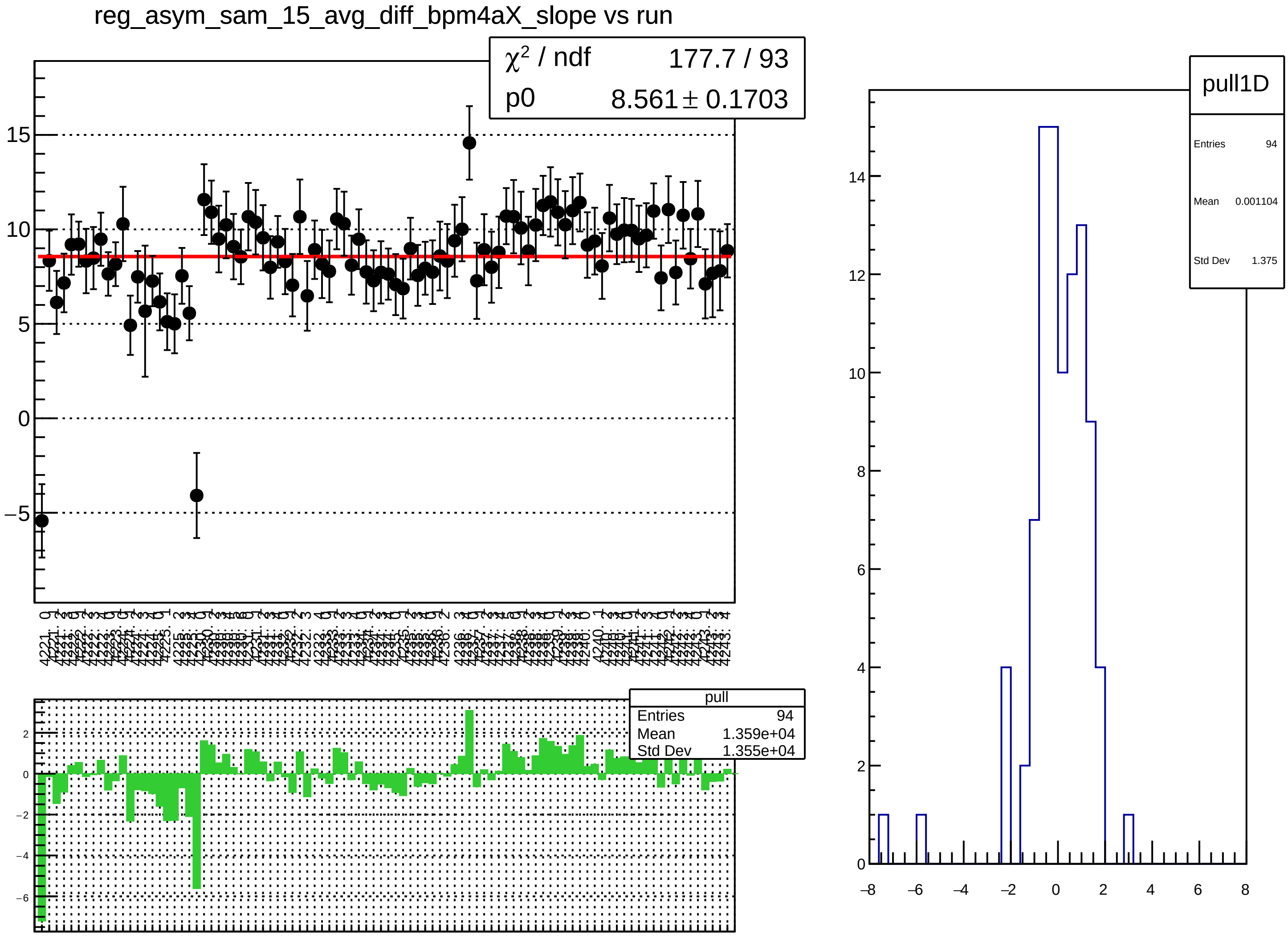

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 228.1 / 93
p0 4.203 ± 0.006279
pull
Entries 94
Mean 905.1
Std Dev 856.5
pull1D
Entries 94
Mean 0.03566
Std Dev 1.557

reg_asym_right_dd_diff_bpm4eY_slope vs run

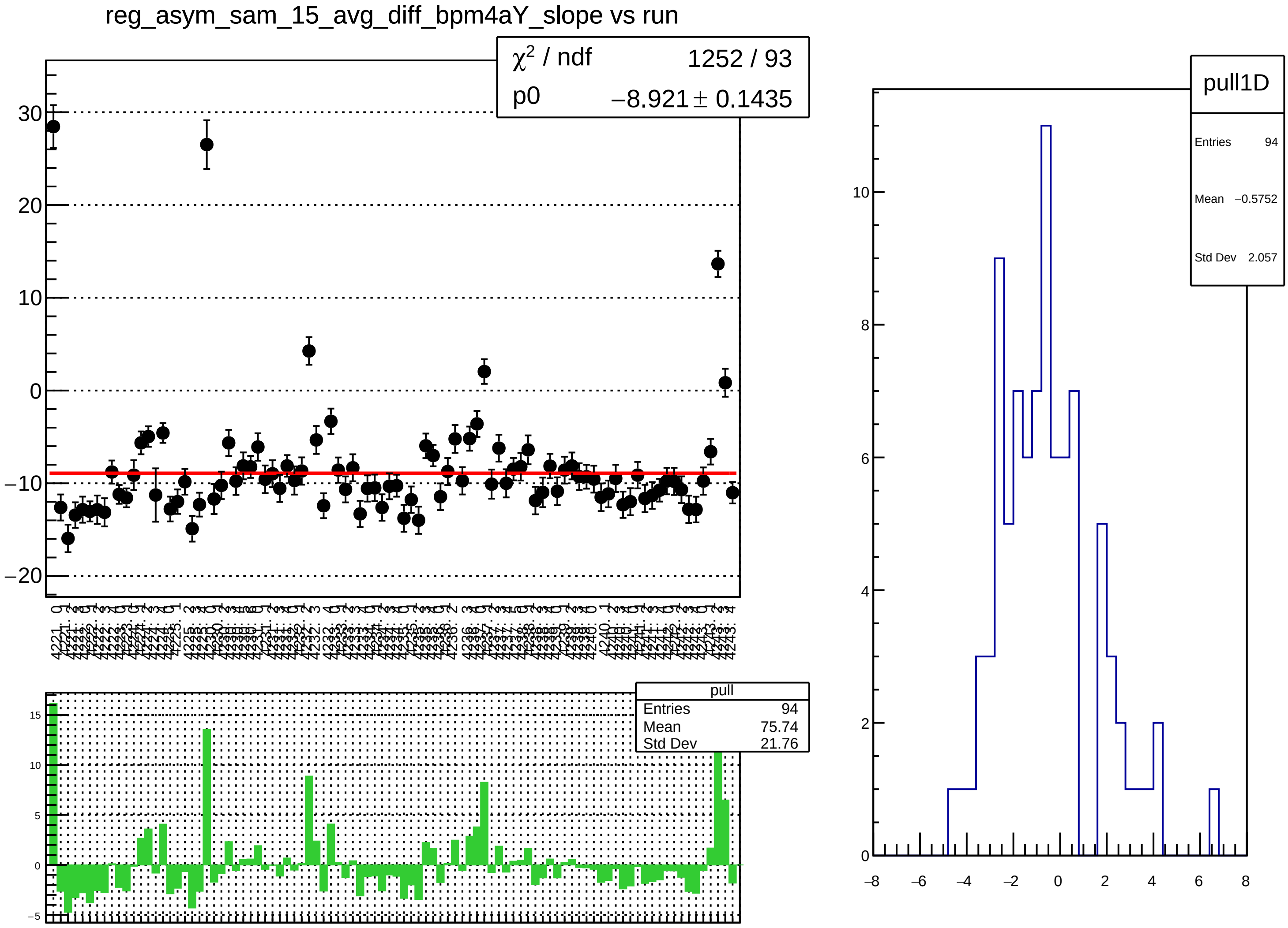




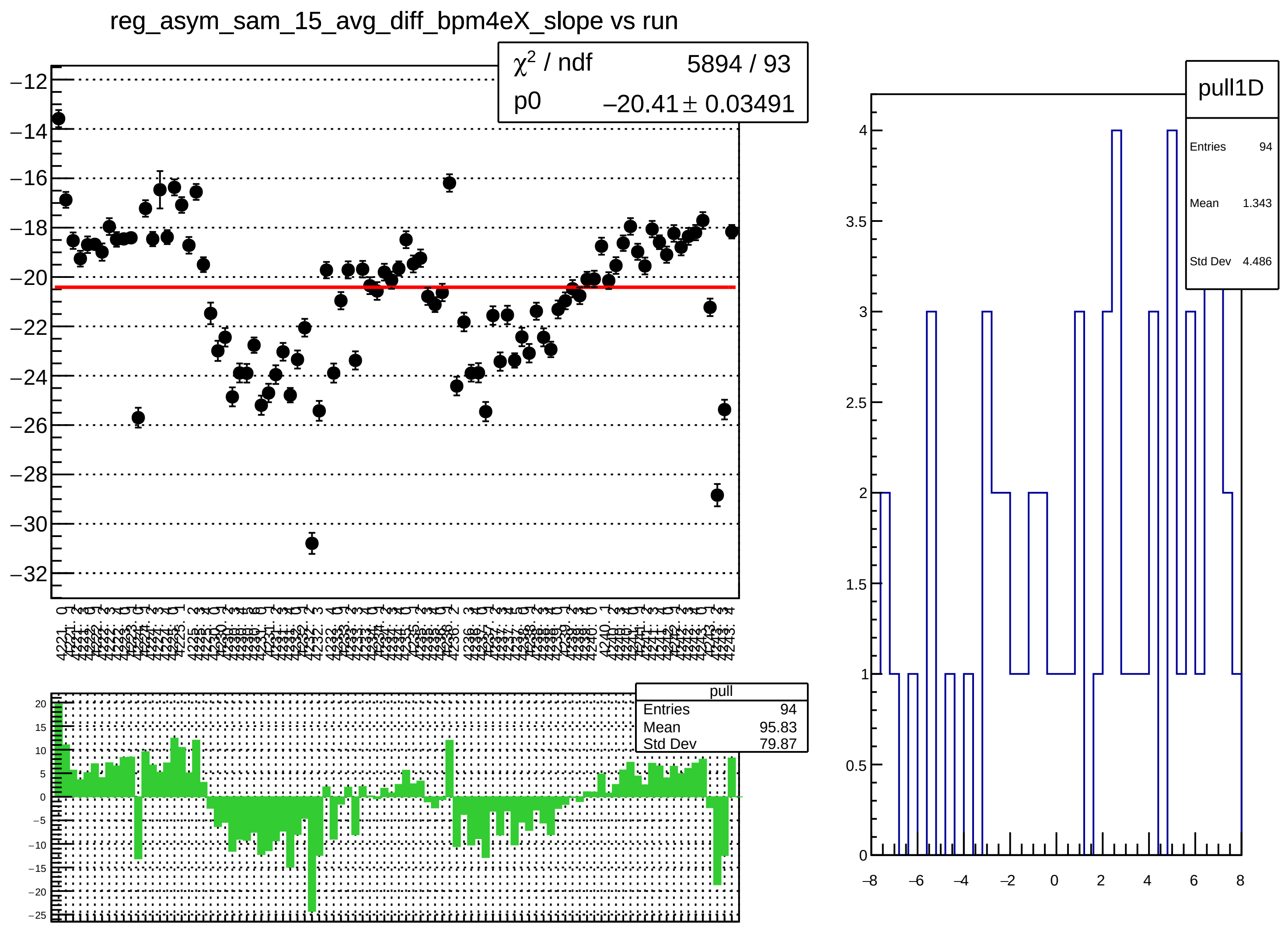
reg_asym_right_dd_diff_bpm11X_slope vs run
χ^2 / ndf 118 / 93
p0 2.947 ± 0.008015
pull
Entries 94
Mean −1265
Std Dev 1314
pull1D
Entries 94
Mean −0.01025
Std Dev 1.121



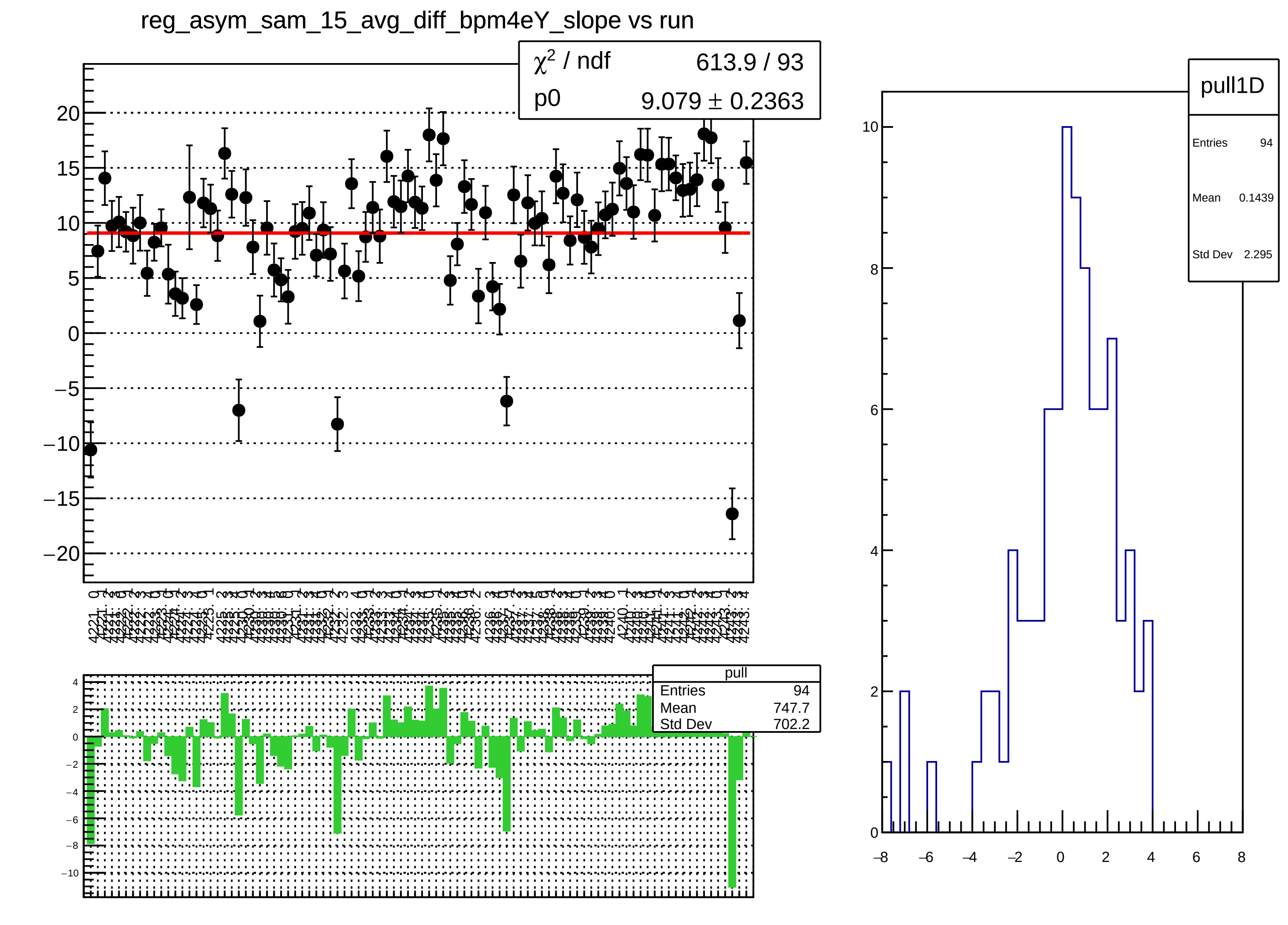
reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ2 / ndf 177.7 / 93
p0 8.561 ± 0.1703
pull
Entries 94
Mean 1.359e+04
Std Dev 1.355e+04
pull1D
Entries 94
Mean 0.001104
Std Dev 1.375



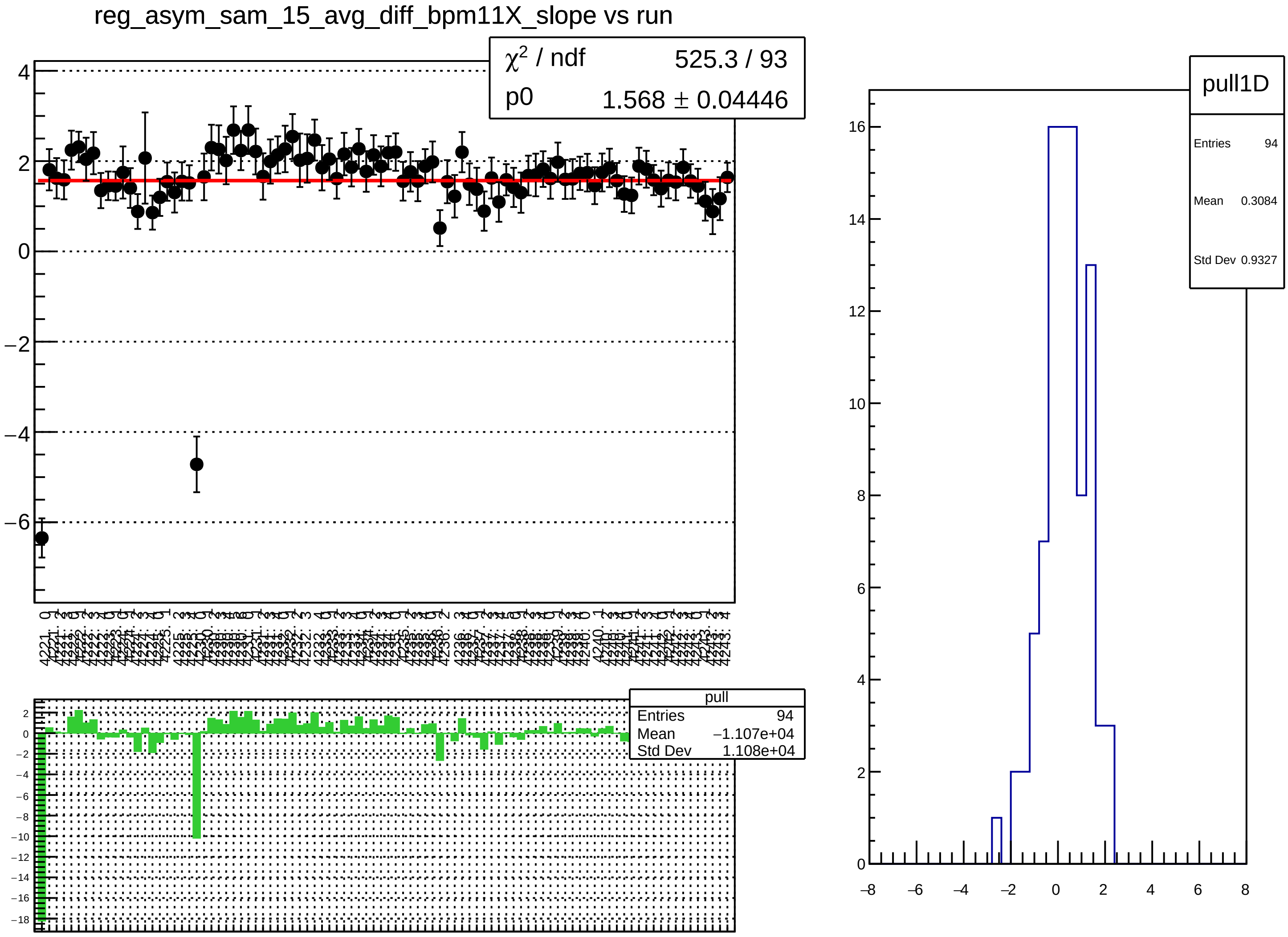
reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 1252 / 93
p0 −8.921 ± 0.1435
pull
Entries 94
Mean 75.74
Std Dev 21.76
pull1D
Entries 94
Mean −0.5752
Std Dev 2.057



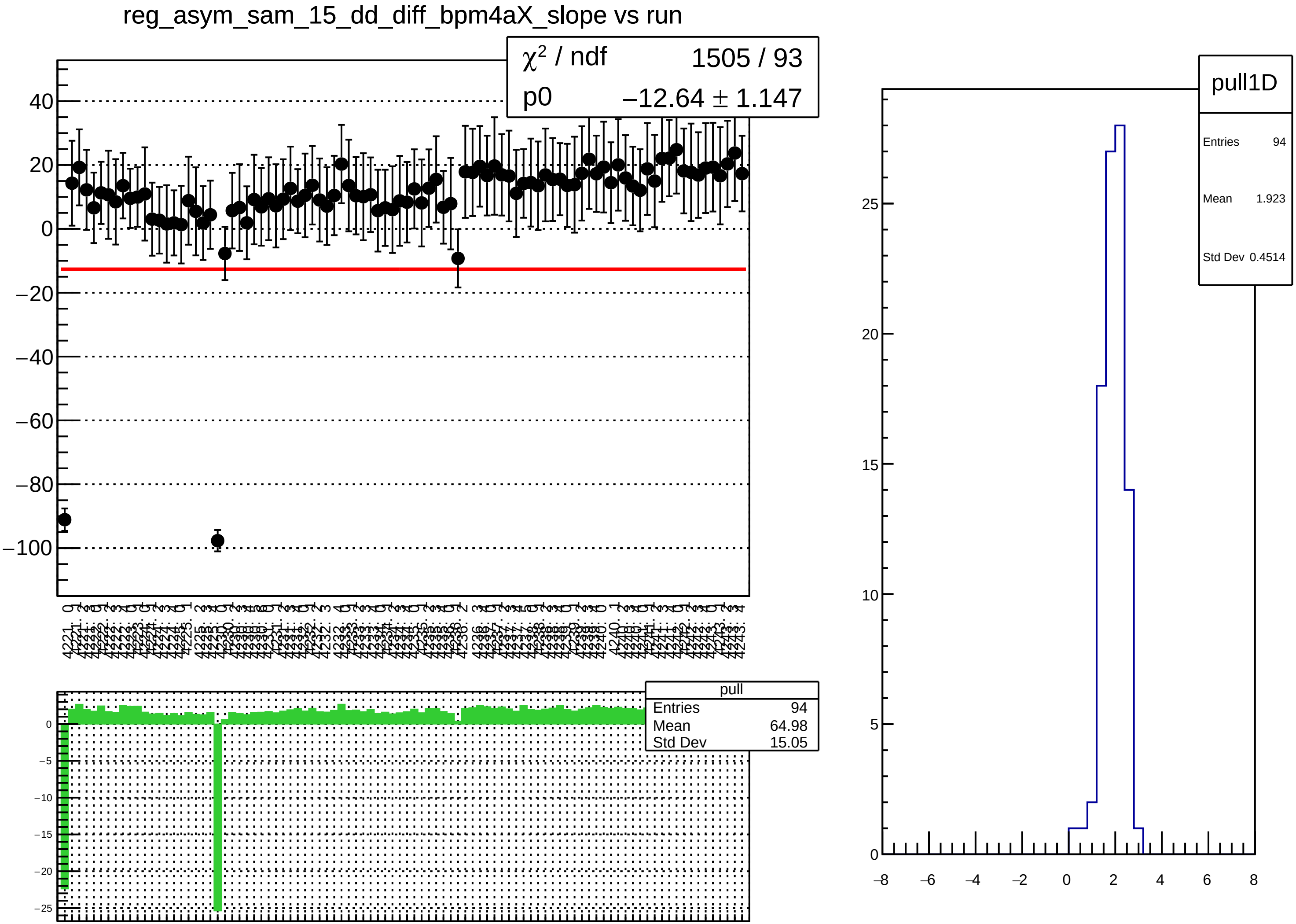
reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 5894 / 93
p0 −20.41 ± 0.03491
pull
Entries 94
Mean 95.83
Std Dev 79.87
pull1D
Entries 94
Mean 1.343
Std Dev 4.486



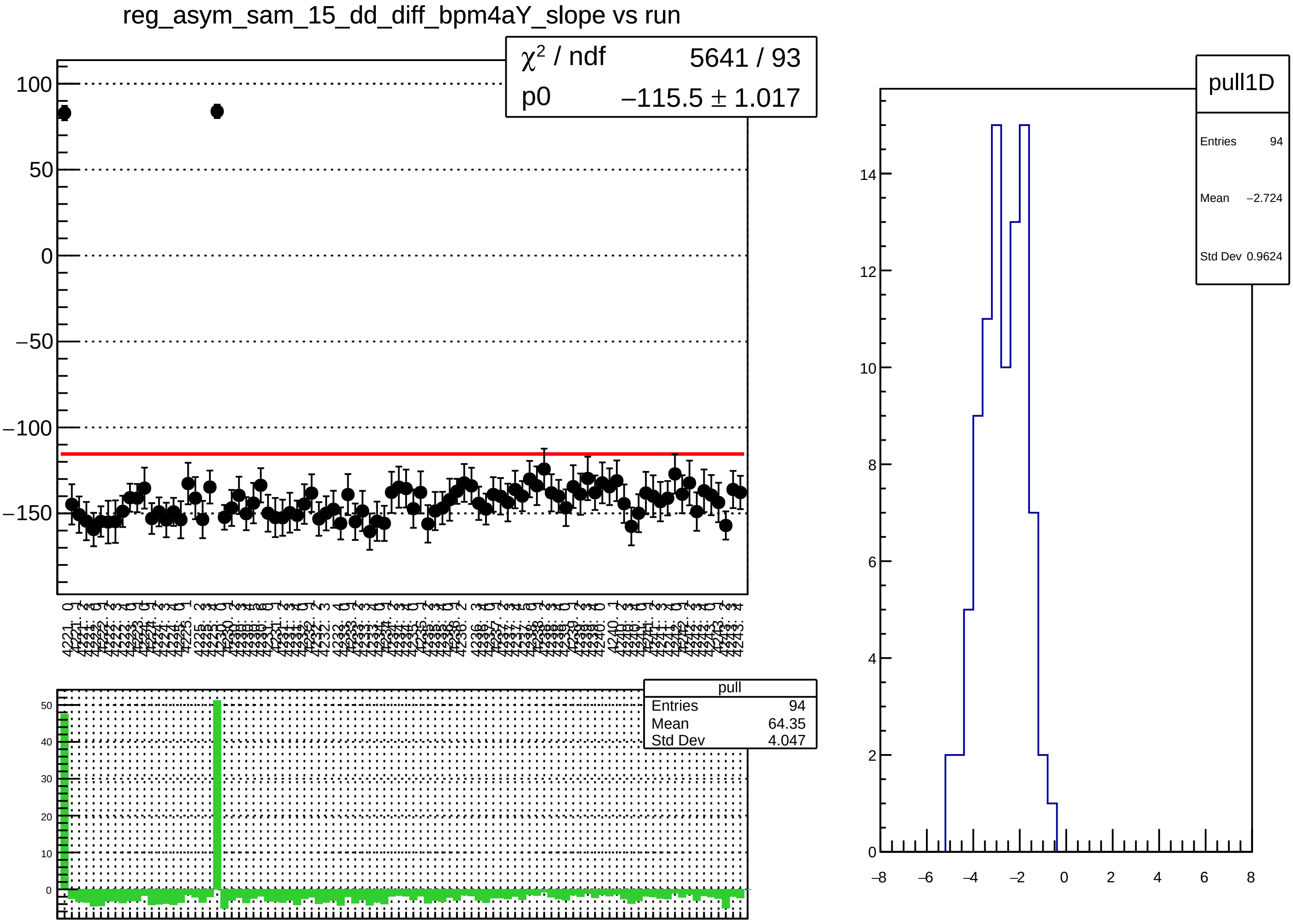
reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 613.9 / 93
p0 9.079 ± 0.2363
pull
Entries 94
Mean 747.7
Std Dev 702.2
pull1D
Entries 94
Mean 0.1439
Std Dev 2.295



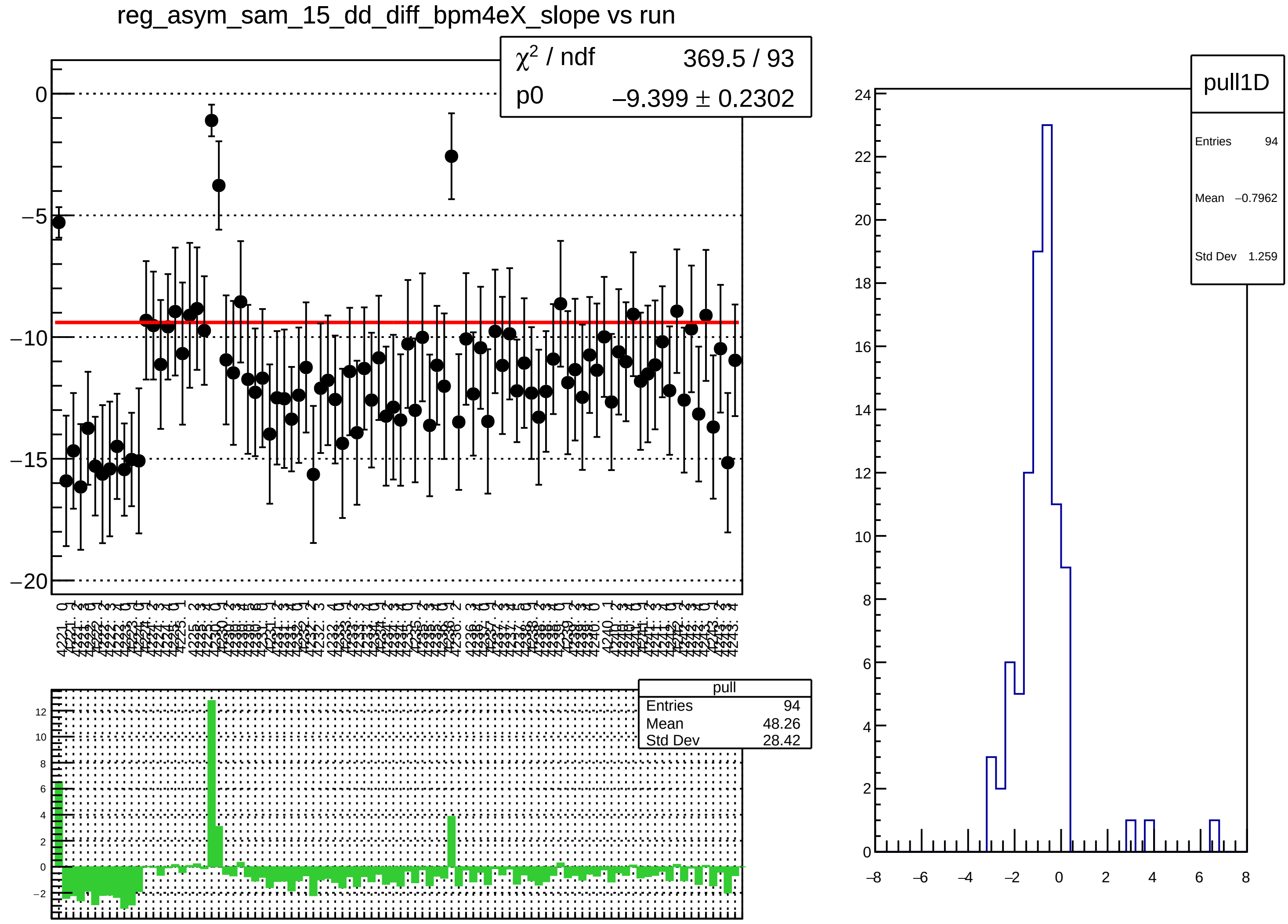
reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ^2 / ndf 525.3 / 93
p0 1.568 ± 0.04446
pull
Entries 94
Mean −1.107e+04
Std Dev 1.108e+04
pull1D
Entries 94
Mean 0.3084
Std Dev 0.9327



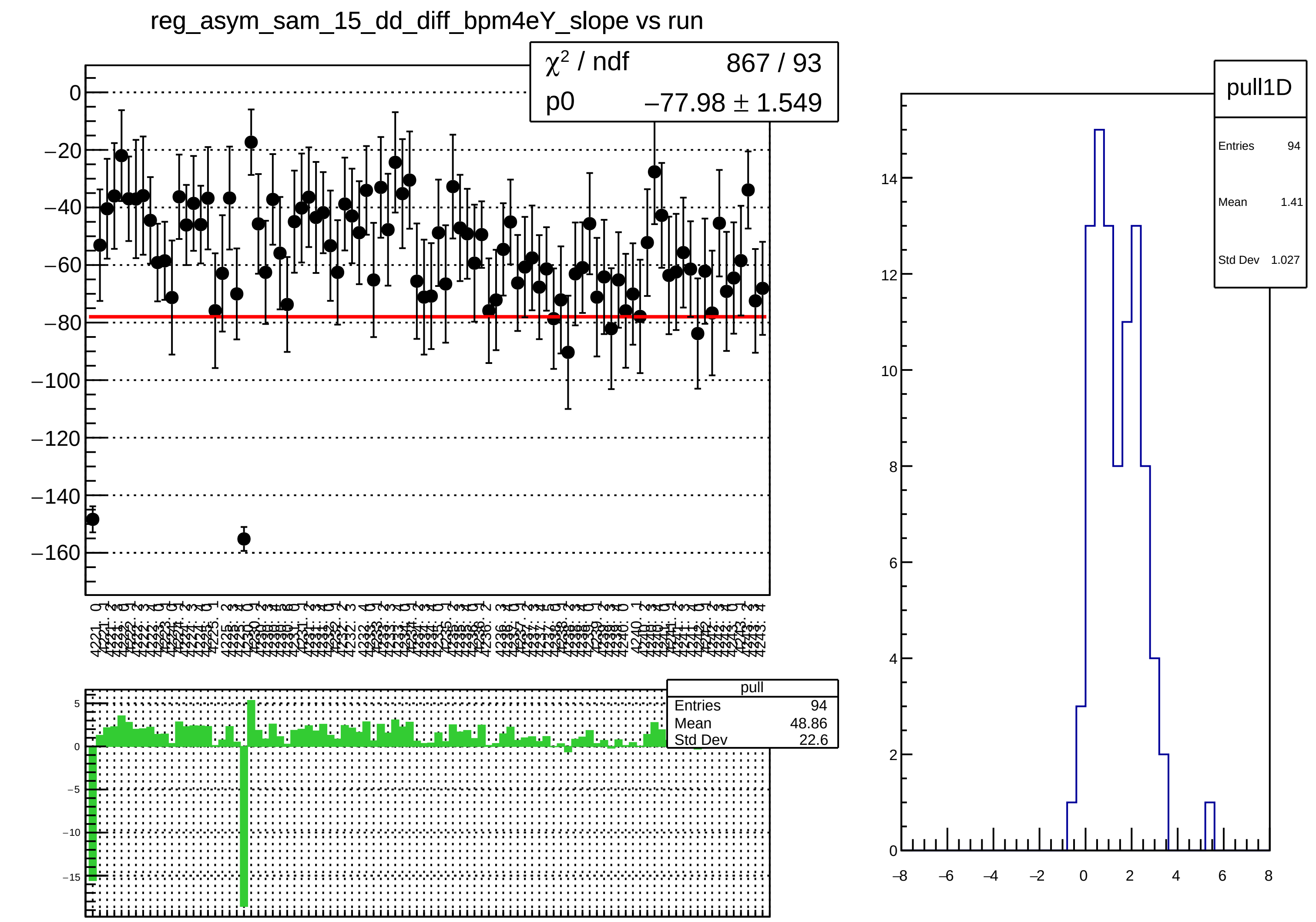
reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 1505 / 93
p0 −12.64 ± 1.147
pull
Entries 94
Mean 64.98
Std Dev 15.05
pull1D
Entries 94
Mean 1.923
Std Dev 0.4514



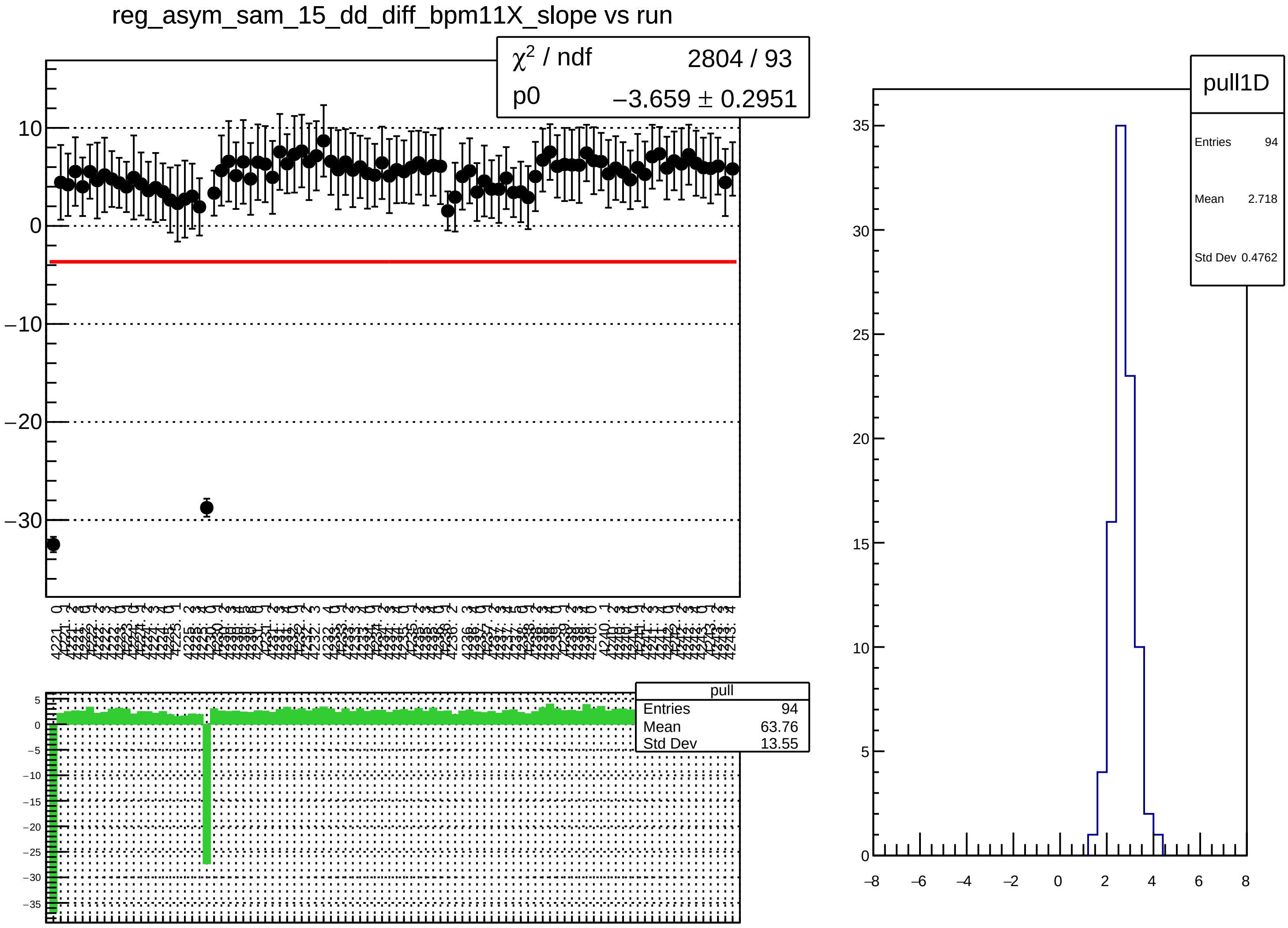
reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 5641 / 93
p0 −115.5 ± 1.017
pull
Entries 94
Mean 64.35
Std Dev 4.047
pull1D
Entries 94
Mean −2.724
Std Dev 0.9624



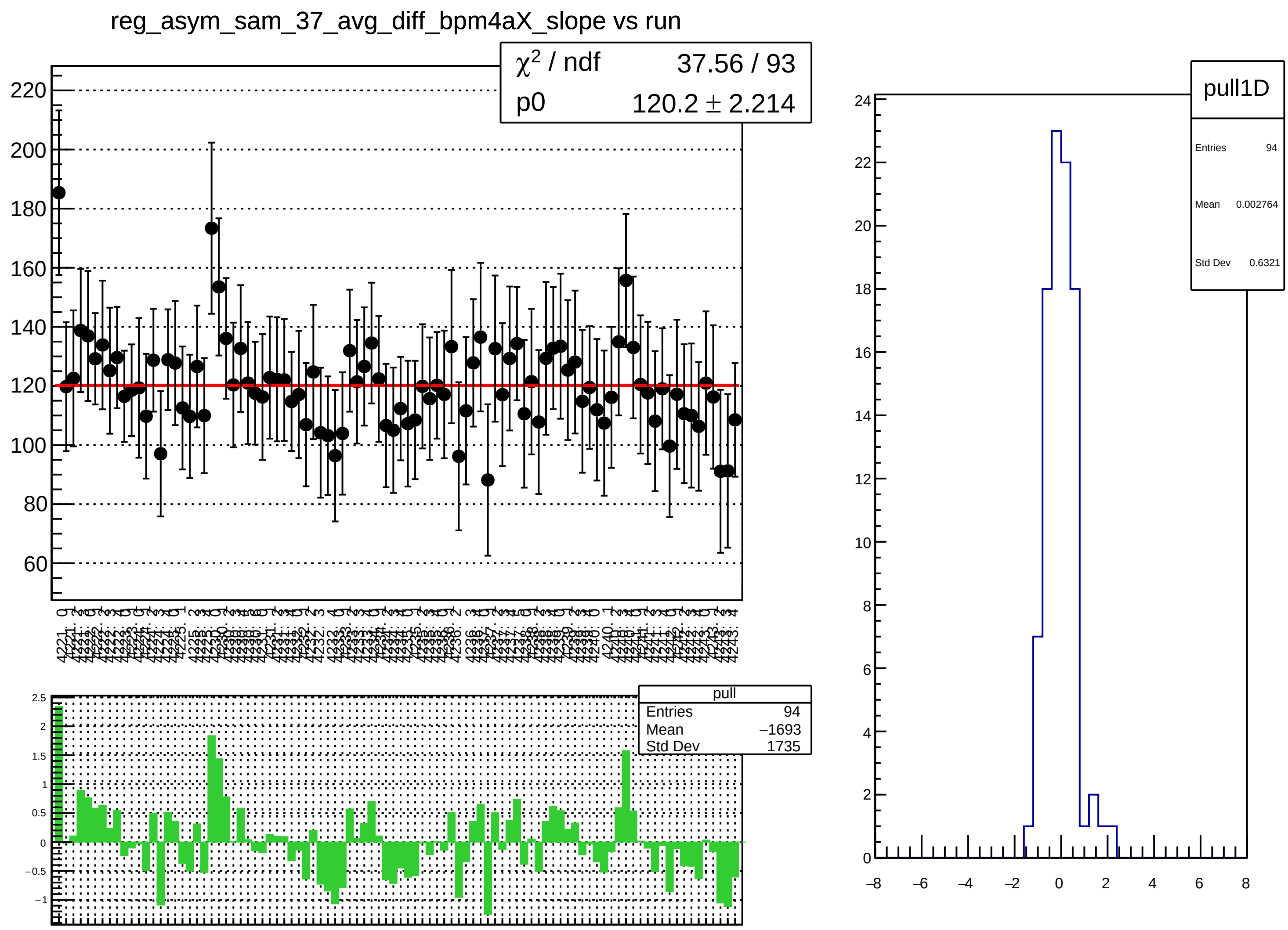
reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 369.5 / 93
p0 −9.399 ± 0.2302
pull
Entries 94
Mean 48.26
Std Dev 28.42
pull1D
Entries 94
Mean −0.7962
Std Dev 1.259



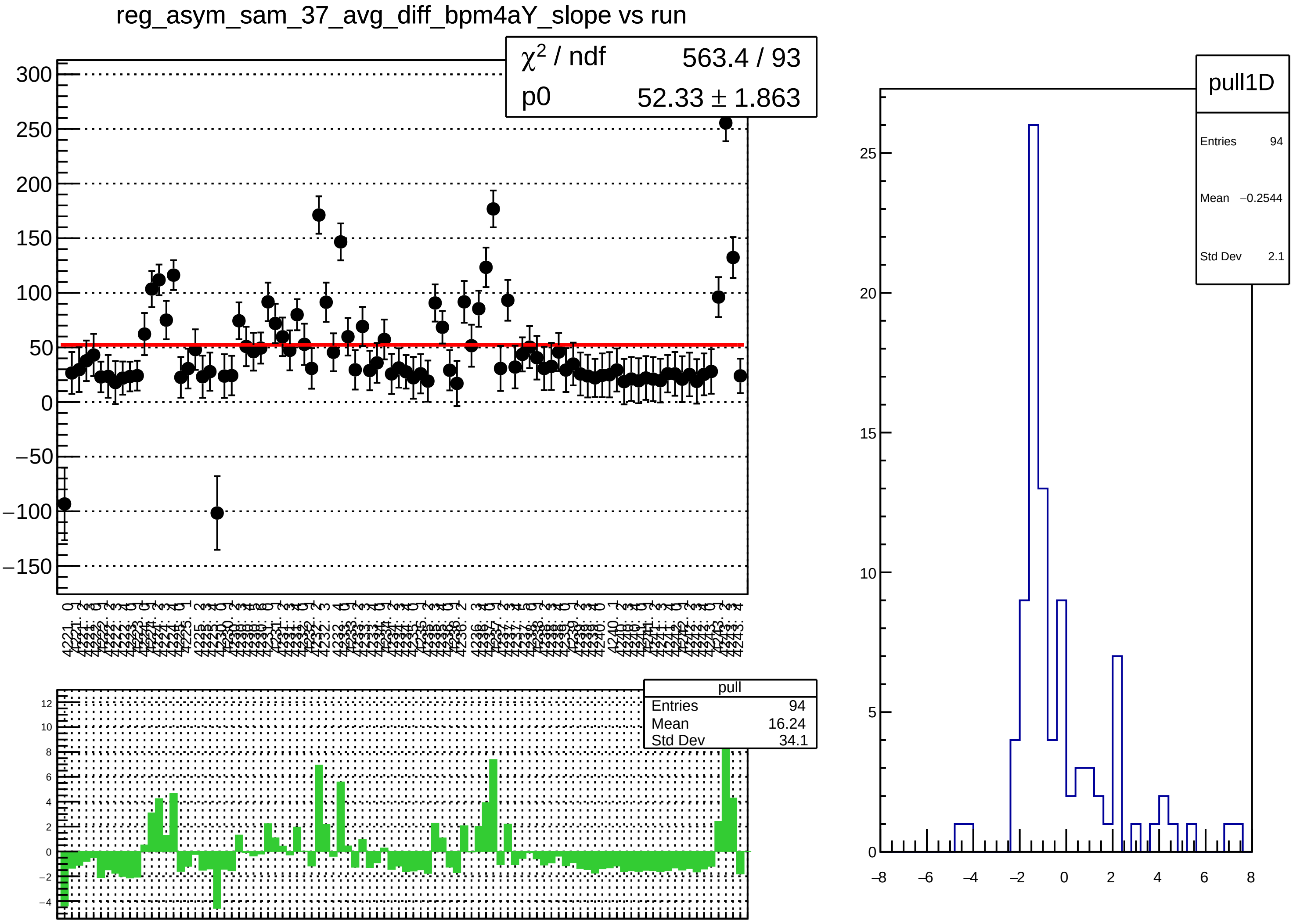
reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 867 / 93
p0 −77.98 ± 1.549
pull
Entries 94
Mean 48.86
Std Dev 22.6
pull1D
Entries 94
Mean 1.41
Std Dev 1.027



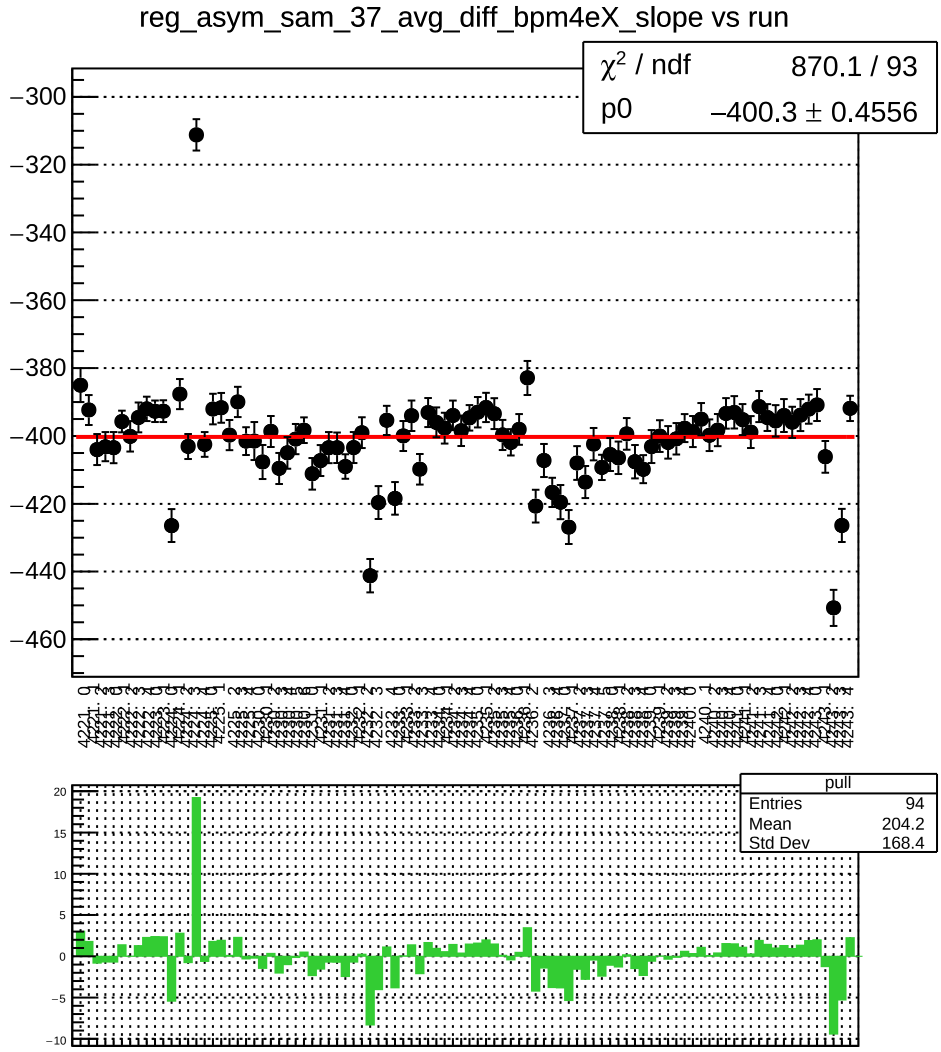
reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ^2 / ndf 2804 / 93
p0 −3.659 ± 0.2951
pull
Entries 94
Mean 63.76
Std Dev 13.55
pull1D
Entries 94
Mean 2.718
Std Dev 0.4762



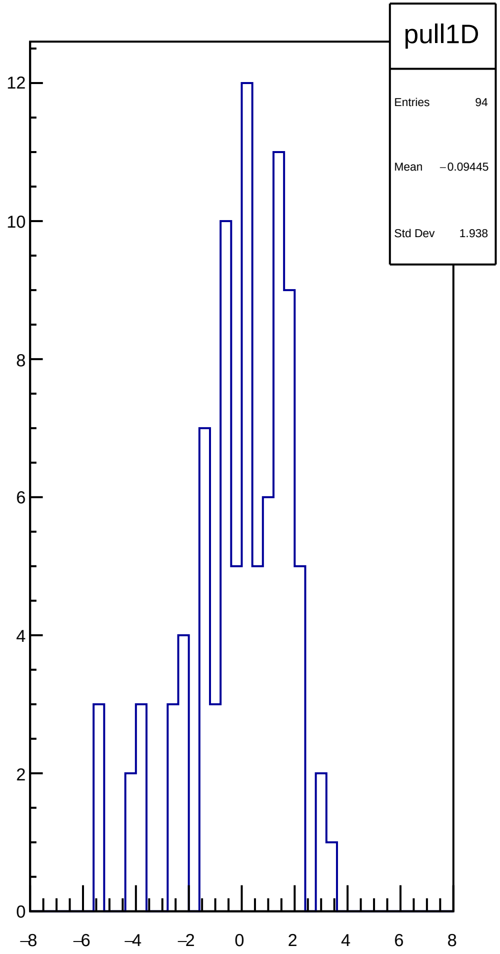
reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 37.56 / 93
p0 120.2 ± 2.214
pull
Entries 94
Mean −1693
Std Dev 1735
pull1D
Entries 94
Mean 0.002764
Std Dev 0.6321



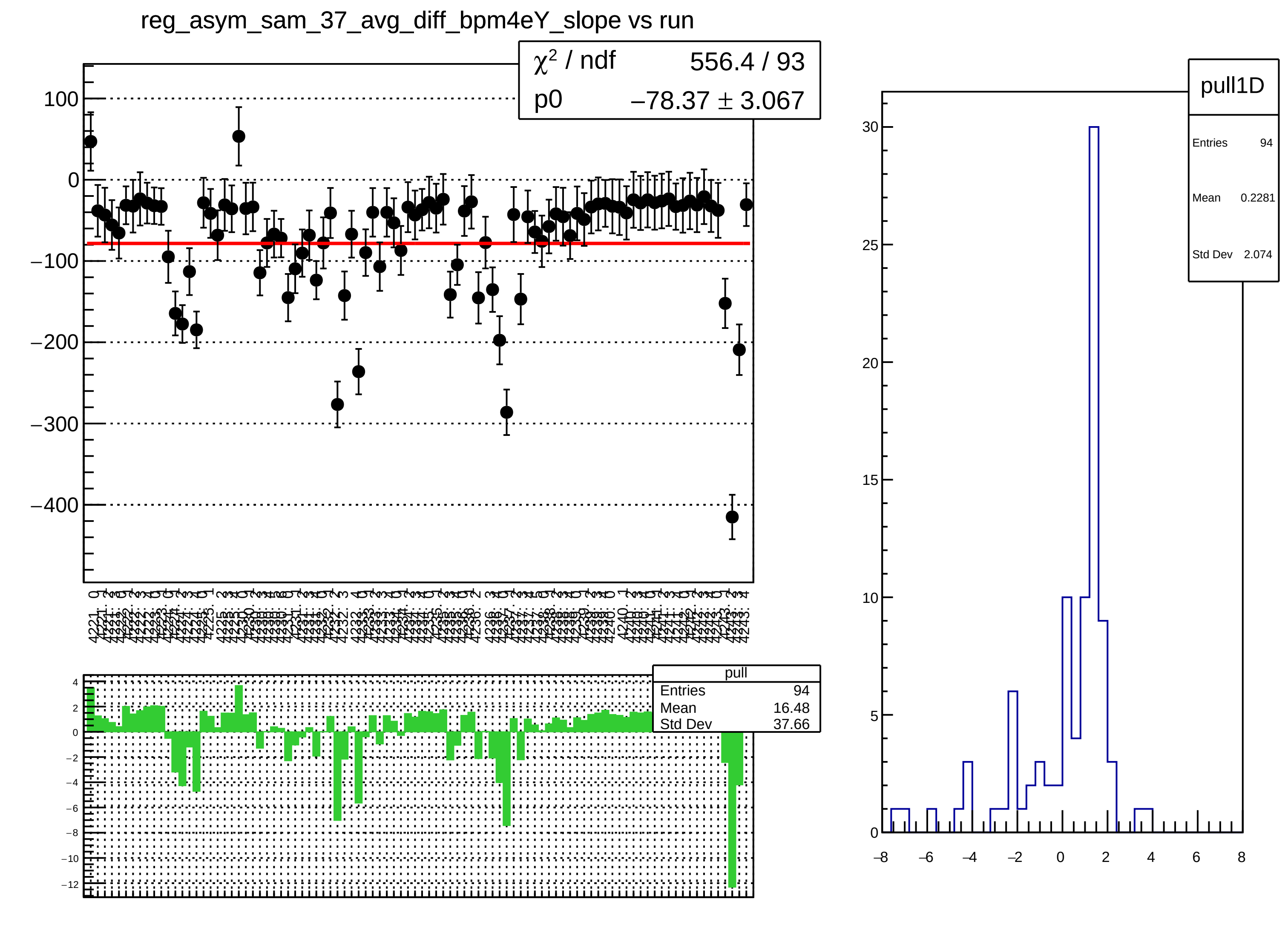
reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ2 / ndf 563.4 / 93
p0 52.33 ± 1.863
pull
Entries 94
Mean 16.24
Std Dev 34.1
pull1D
Entries 94
Mean −0.2544
Std Dev 2.1



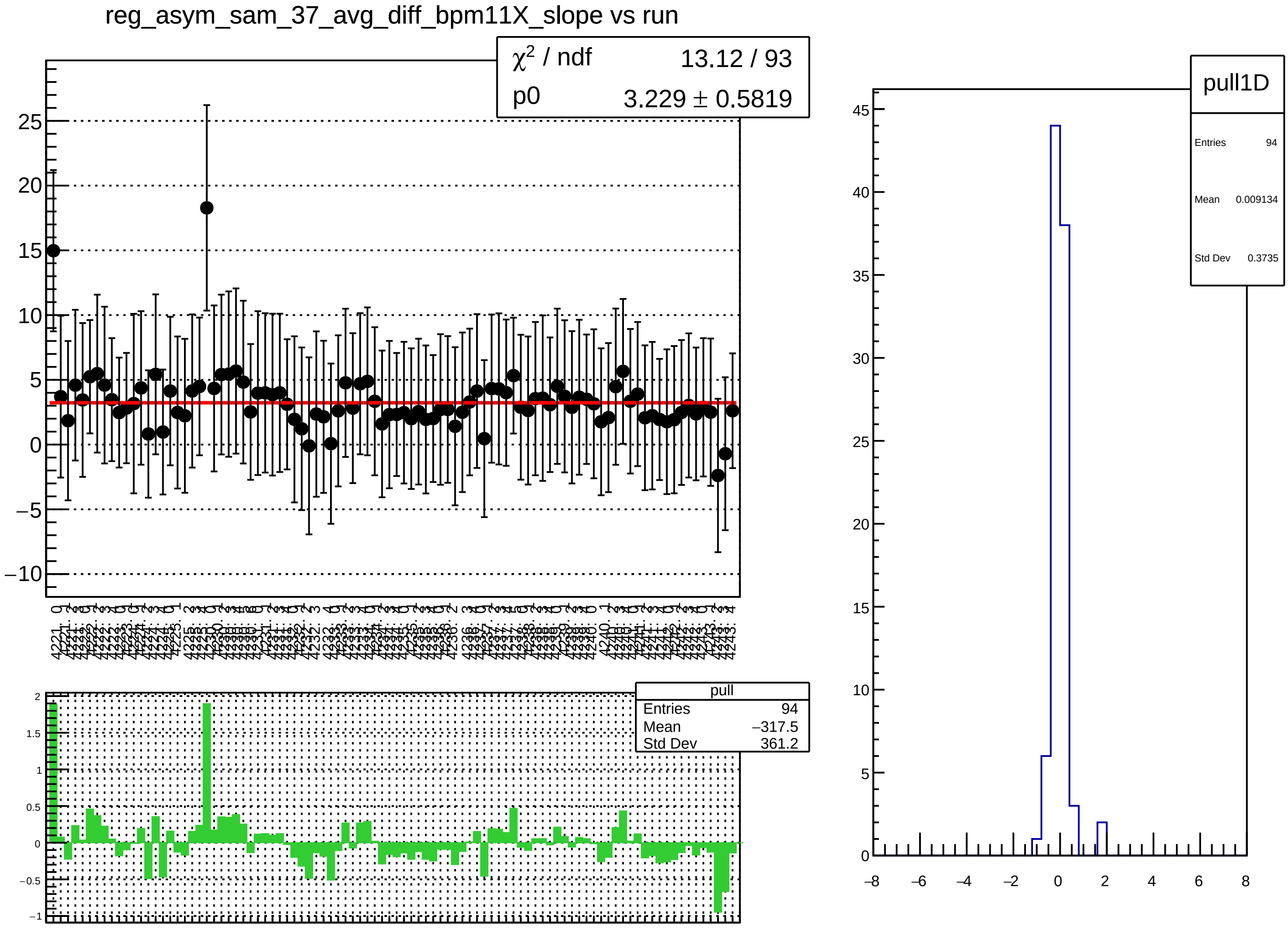
reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 870.1 / 93
p0 −400.3 ± 0.4556
−300
−320
−340
−360
−380
−400
−420
−440
−460
pull
Entries 94
Mean 204.2
Std Dev 168.4
20
15
10
5
0
−5
−10



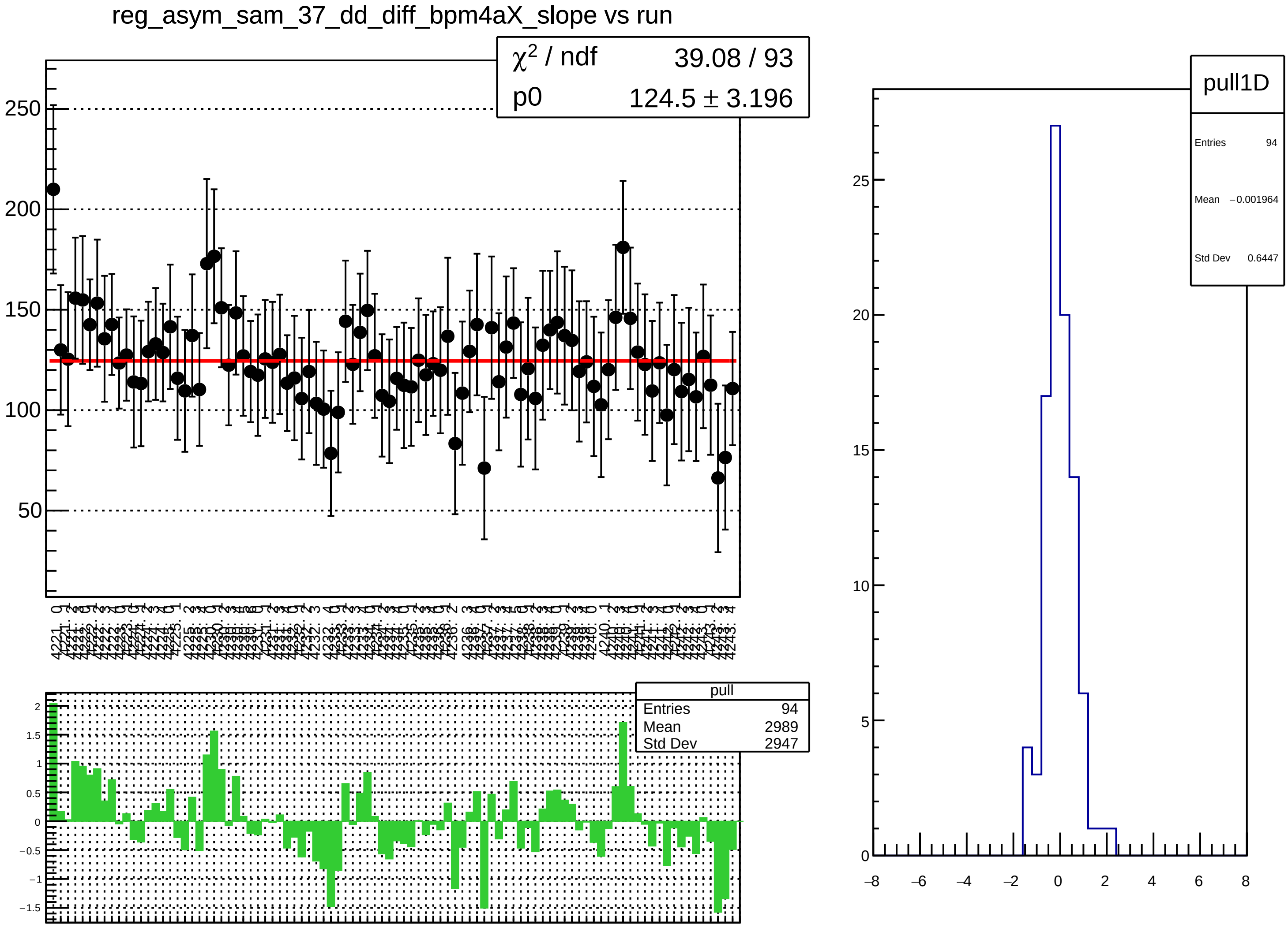
pull1D
Entries 94
Mean −0.09445
Std Dev 1.938
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



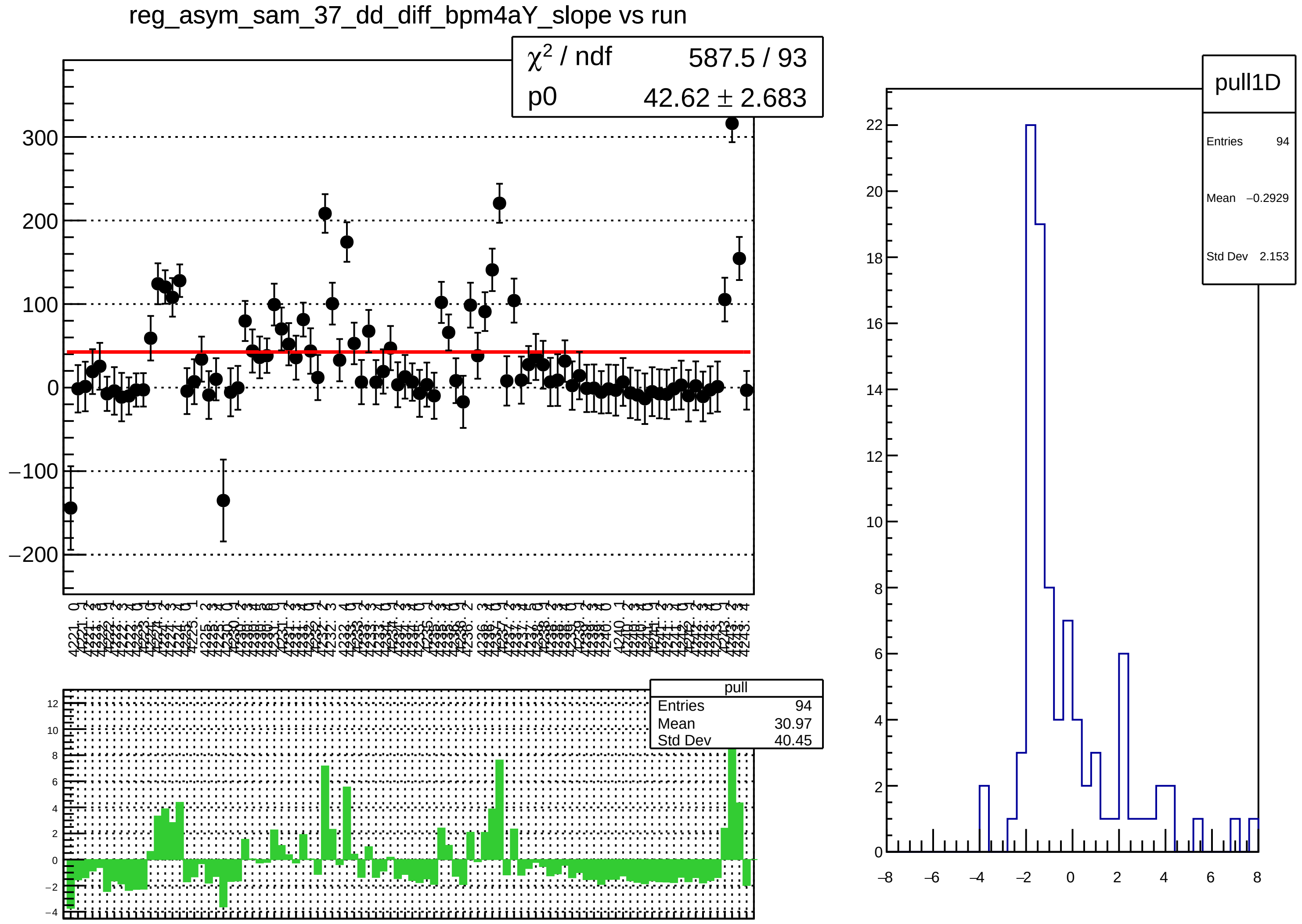
reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 556.4 / 93
p0 −78.37 ± 3.067
pull
Entries 94
Mean 16.48
Std Dev 37.66
pull1D
Entries 94
Mean 0.2281
Std Dev 2.074

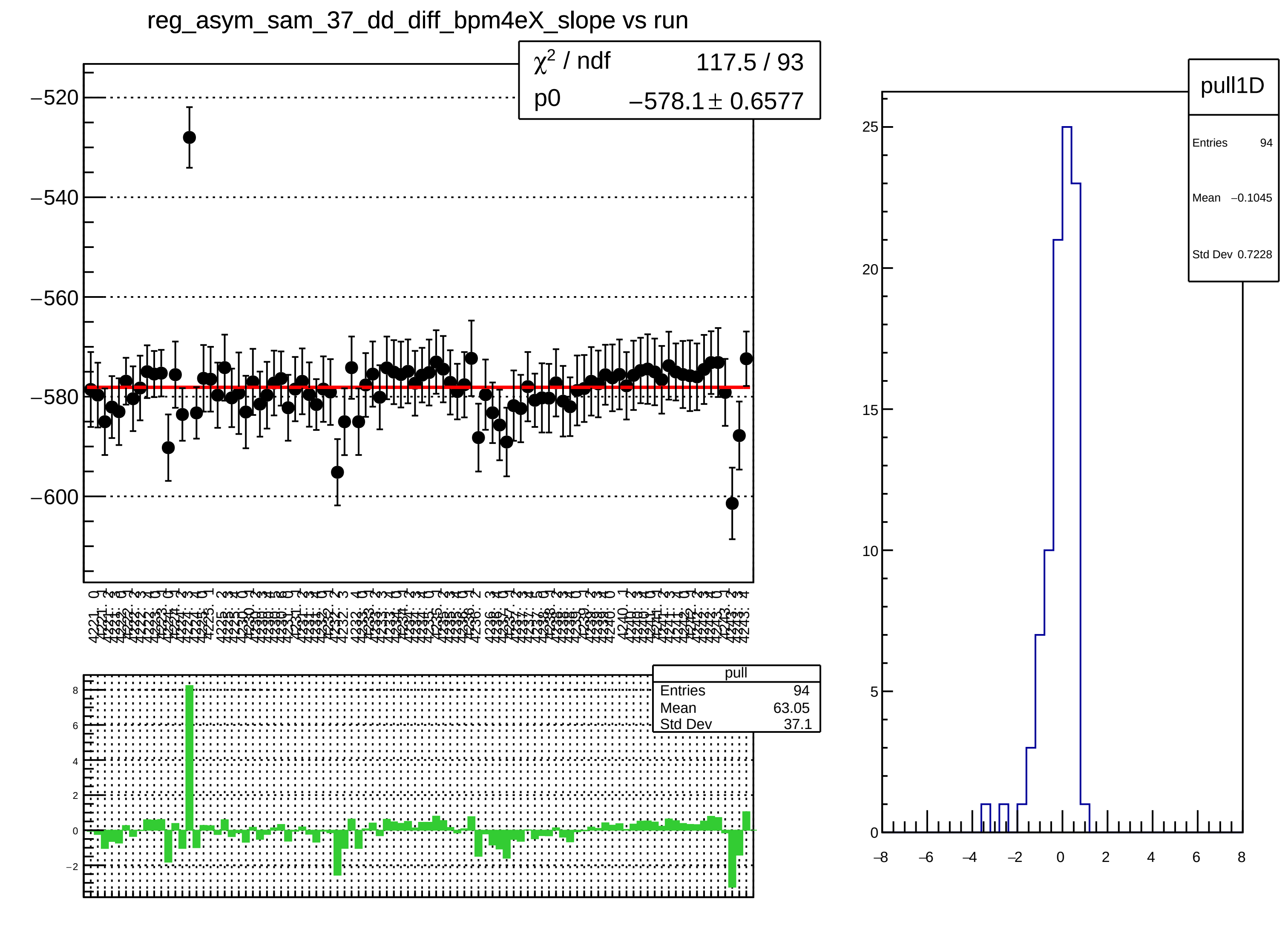


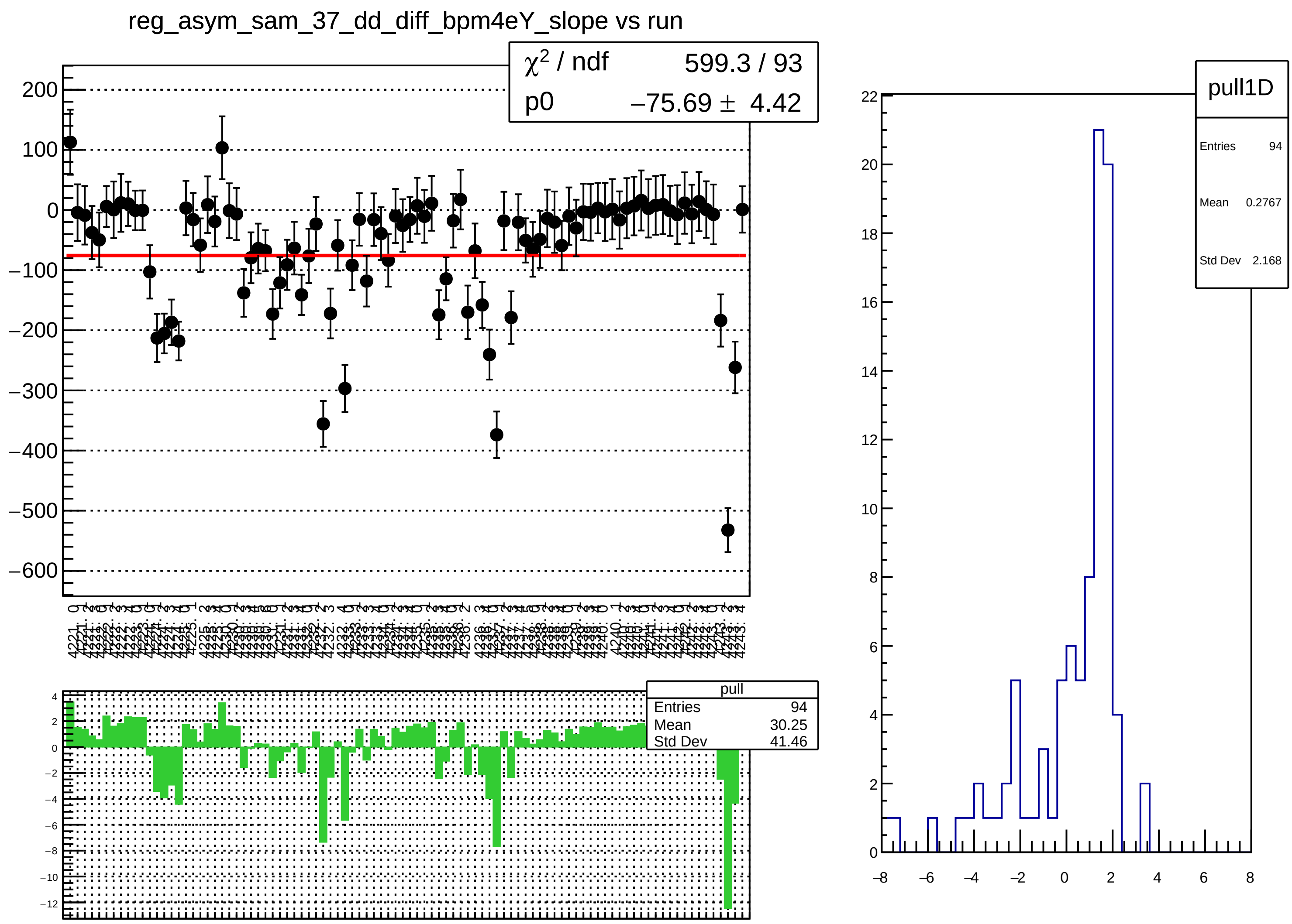
reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ^2 / ndf 13.12 / 93
p0 3.229 ± 0.5819
pull
Entries 94
Mean −317.5
Std Dev 361.2
pull1D
Entries 94
Mean 0.009134
Std Dev 0.3735



reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ2 / ndf 39.08 / 93
p0 124.5 ± 3.196
pull
Entries 94
Mean 2989
Std Dev 2947
pull1D
Entries 94
Mean −0.001964
Std Dev 0.6447

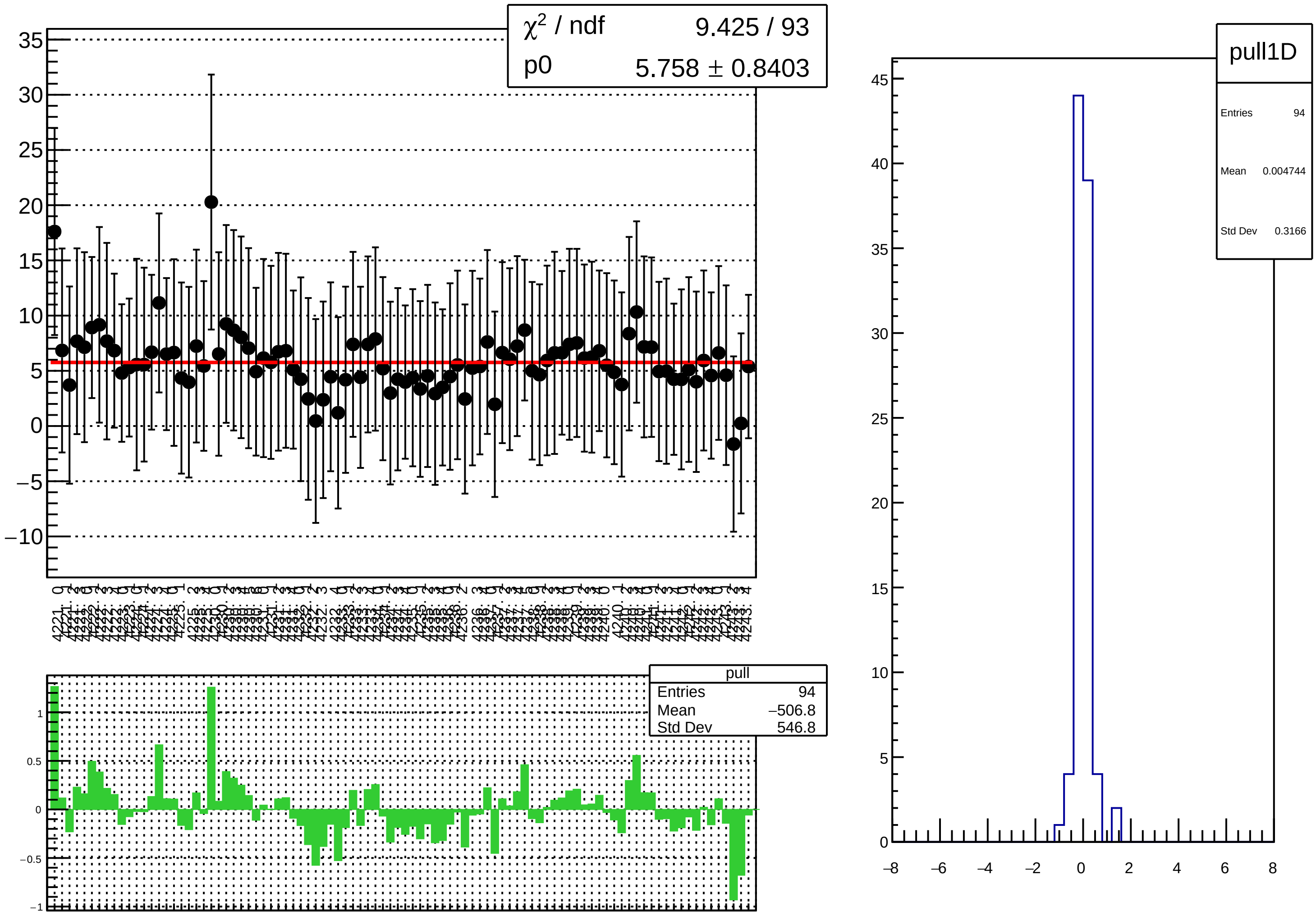

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ2 / ndf 587.5 / 93
p0 42.62 ± 2.683
pull
Entries 94
Mean 30.97
Std Dev 40.45
pull1D
Entries 94
Mean −0.2929
Std Dev 2.153

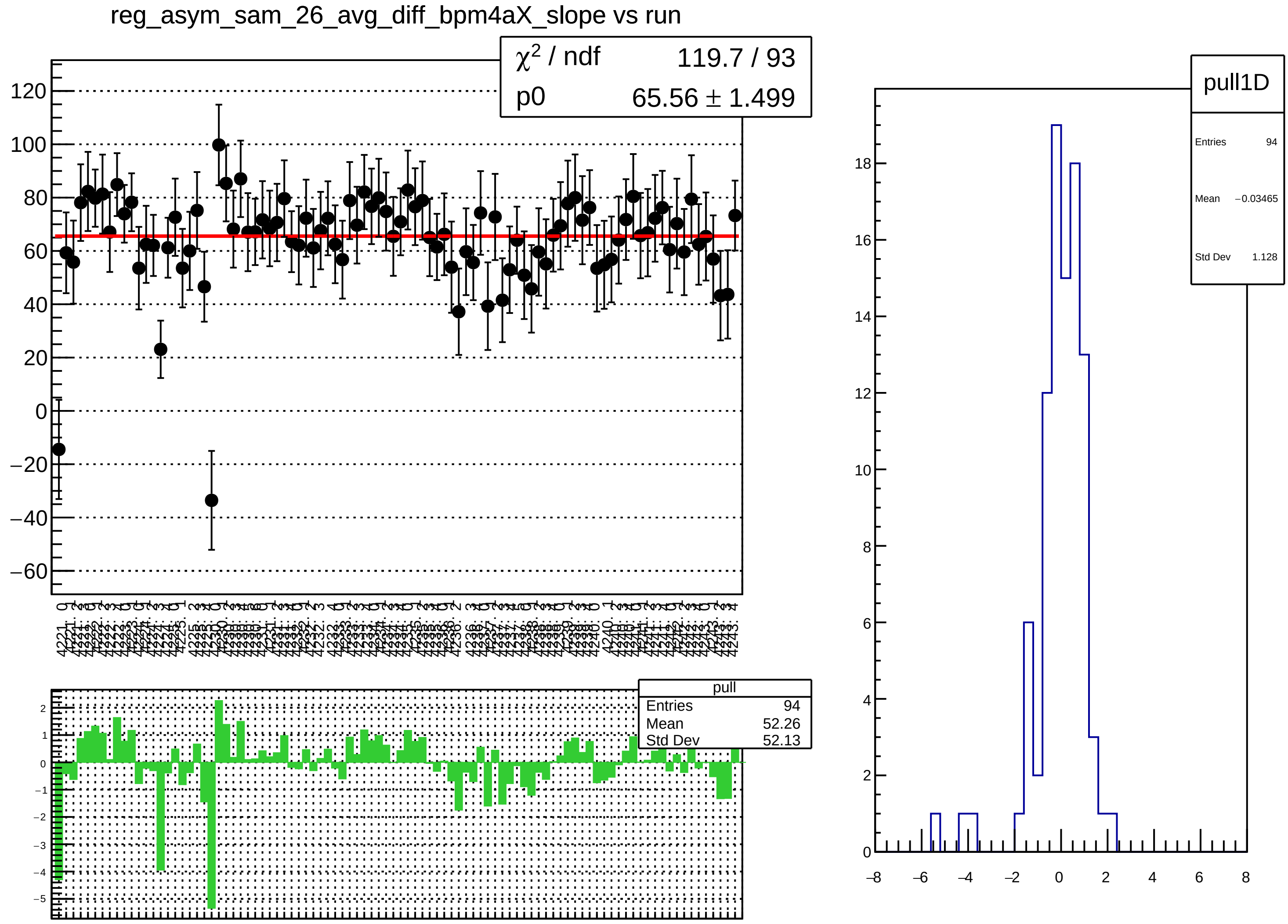

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ2 / ndf 117.5 / 93
p0 −578.1 ± 0.6577
pull
Entries 94
Mean 63.05
Std Dev 37.1
pull1D
Entries 94
Mean −0.1045
Std Dev 0.7228



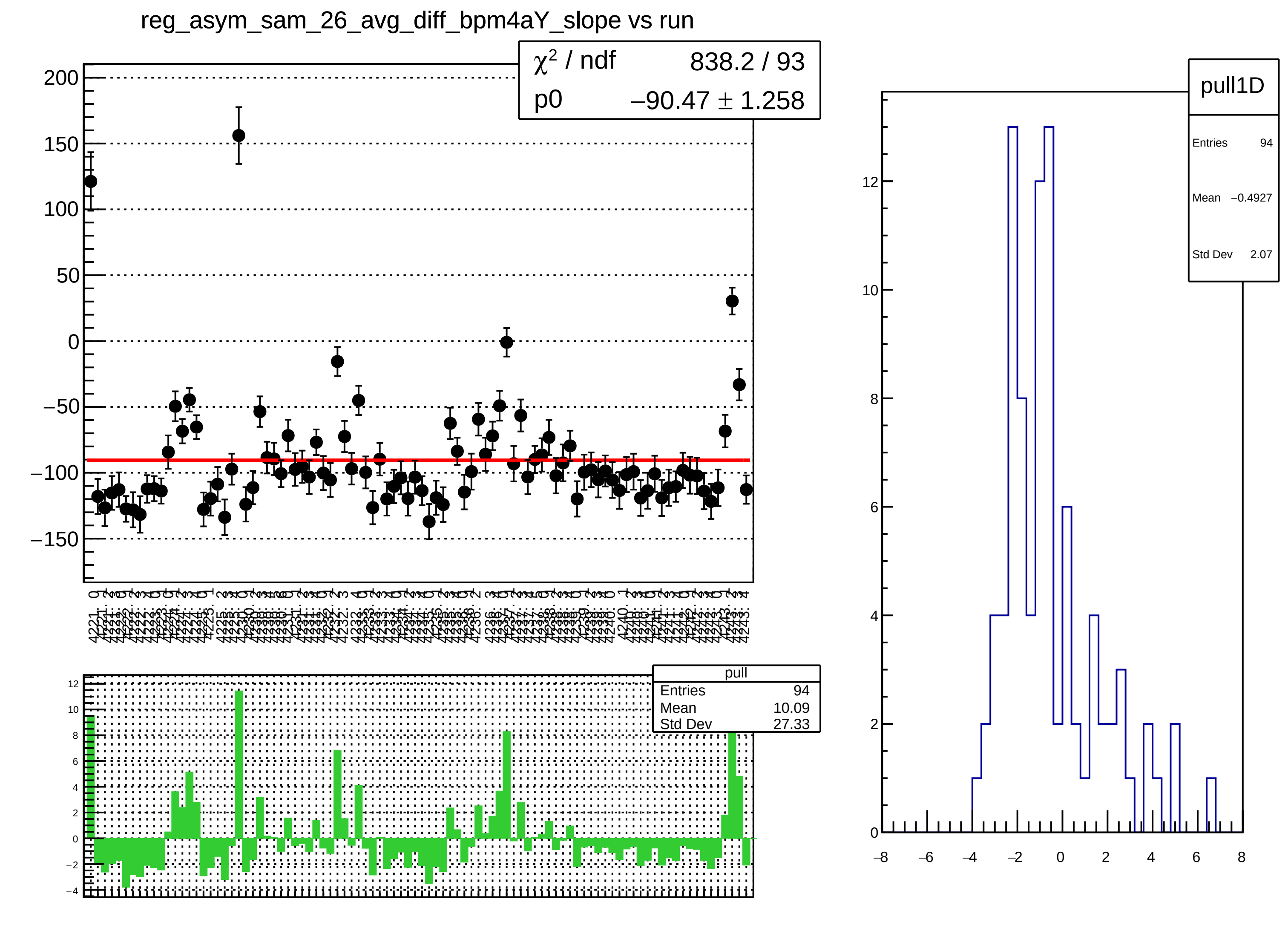
reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 599.3 / 93
p0 −75.69 ± 4.42
pull
Entries 94
Mean 30.25
Std Dev 41.46
pull1D
Entries 94
Mean 0.2767
Std Dev 2.168

reg_asym_sam_37_dd_diff_bpm11X_slope vs run

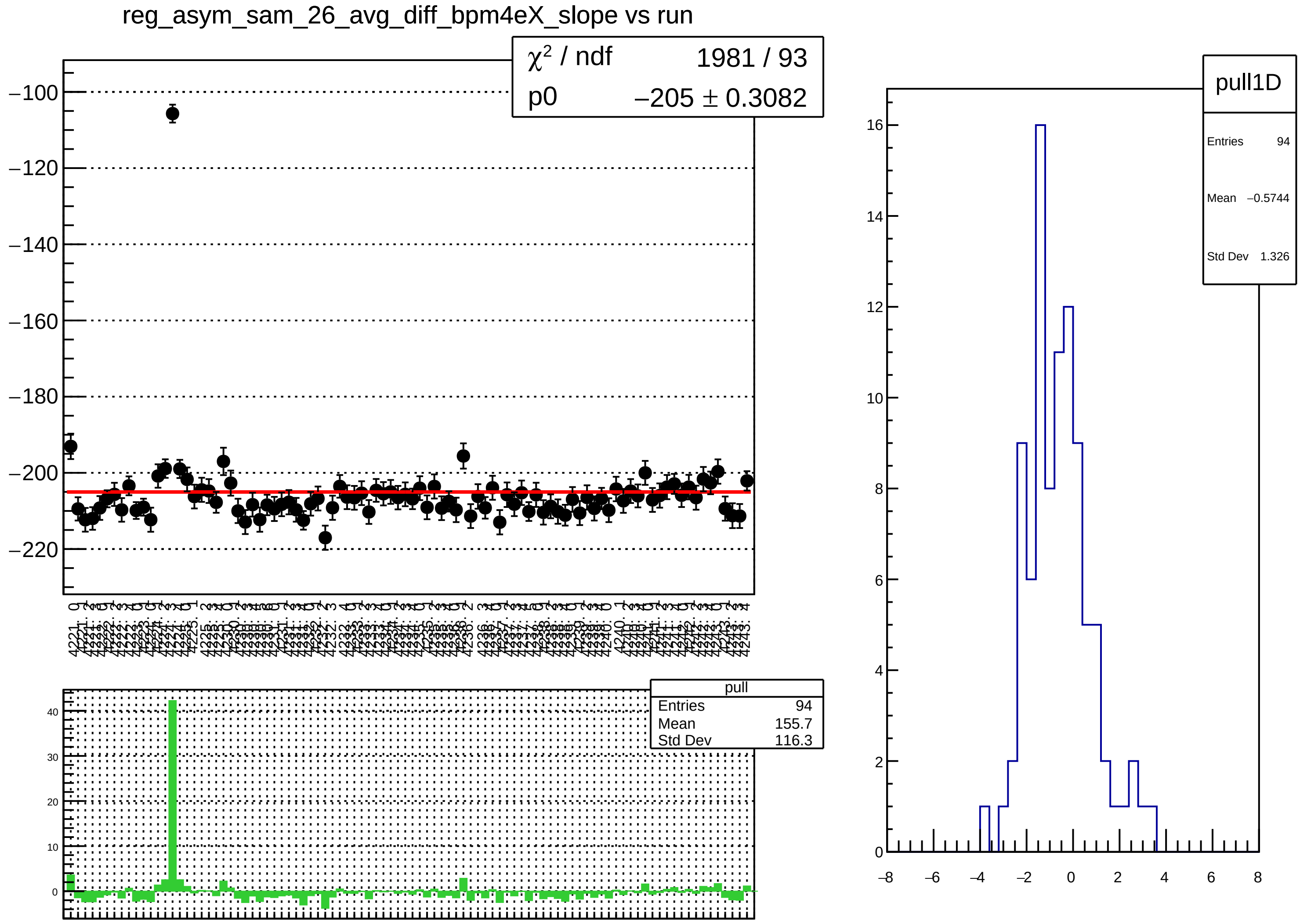


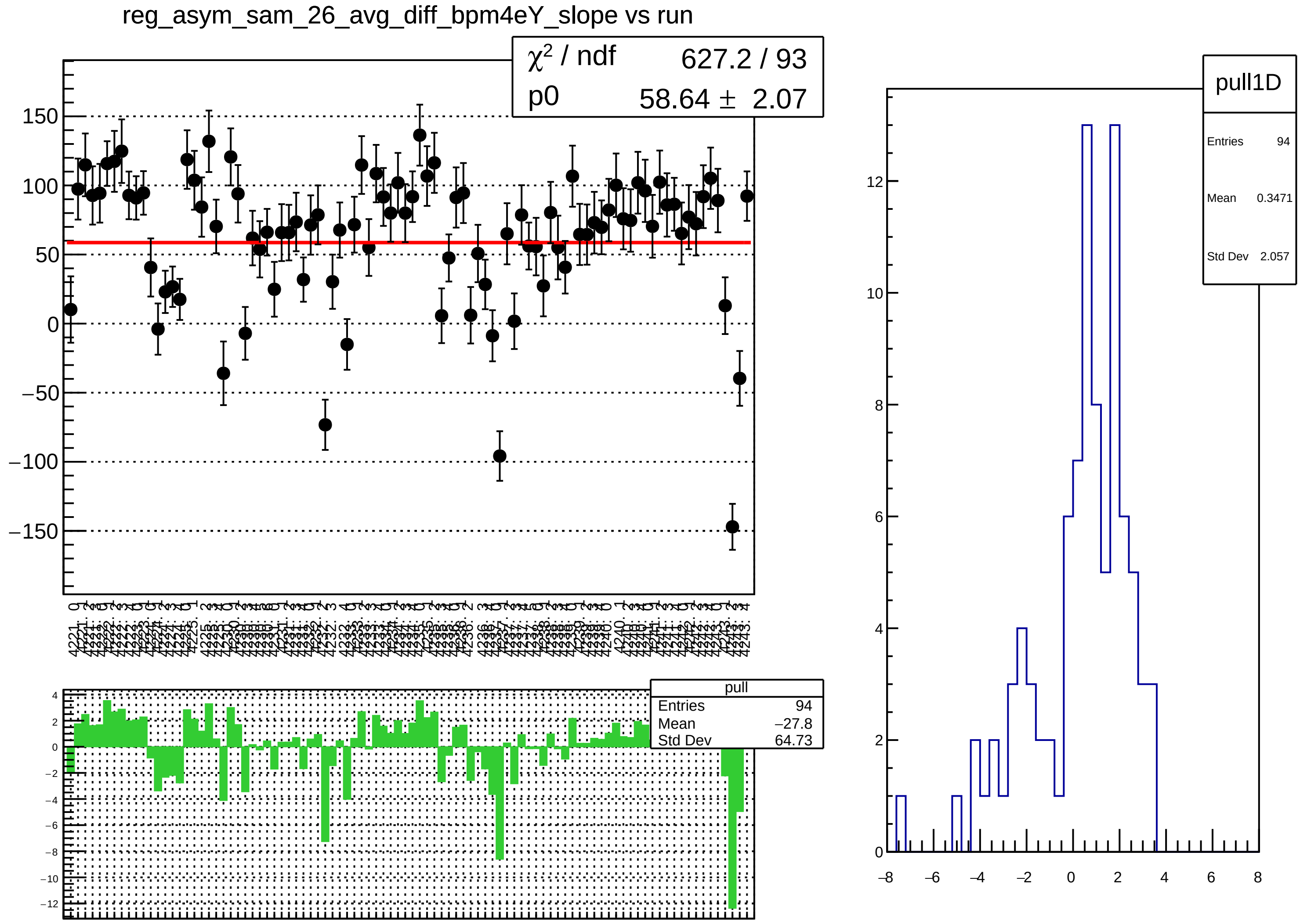


reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ2 / ndf 119.7 / 93
p0 65.56 ± 1.499
pull
Entries 94
Mean 52.26
Std Dev 52.13
pull1D
Entries 94
Mean −0.03465
Std Dev 1.128

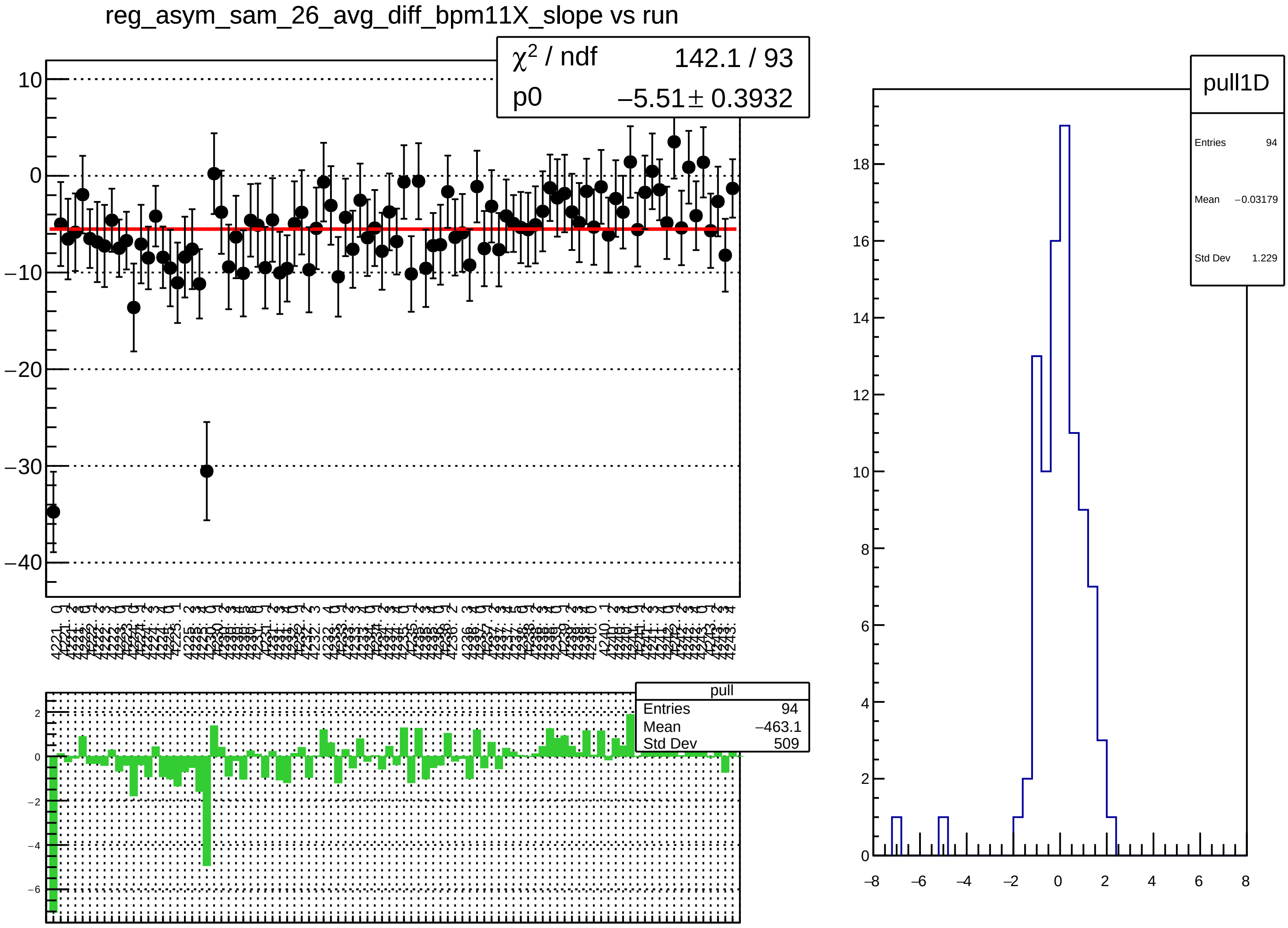


reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 838.2 / 93
p0 −90.47 ± 1.258
pull
Entries 94
Mean 10.09
Std Dev 27.33
pull1D
Entries 94
Mean −0.4927
Std Dev 2.07

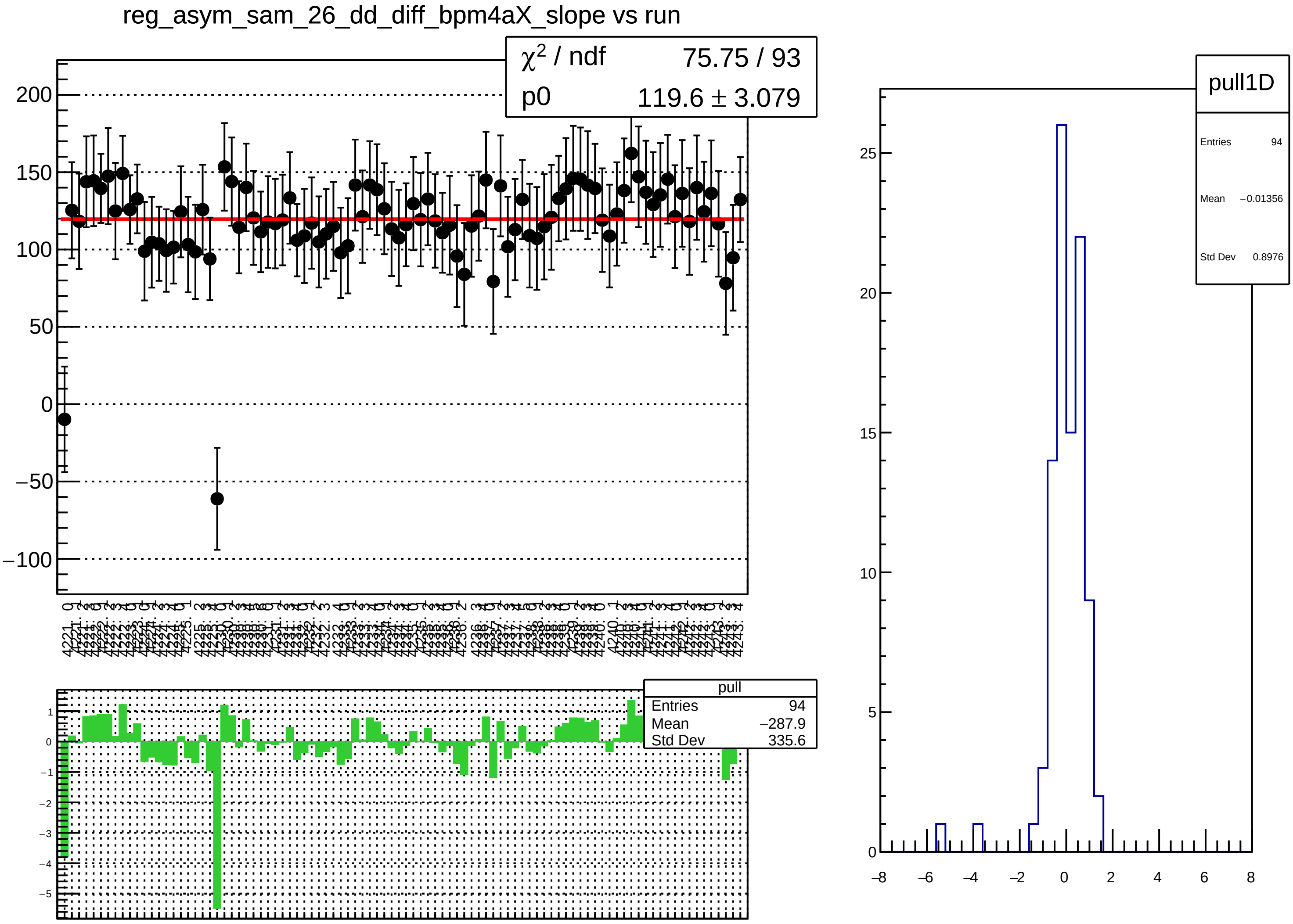

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 1981 / 93
p0 −205 ± 0.3082
pull
Entries 94
Mean 155.7
Std Dev 116.3
pull1D
Entries 94
Mean −0.5744
Std Dev 1.326



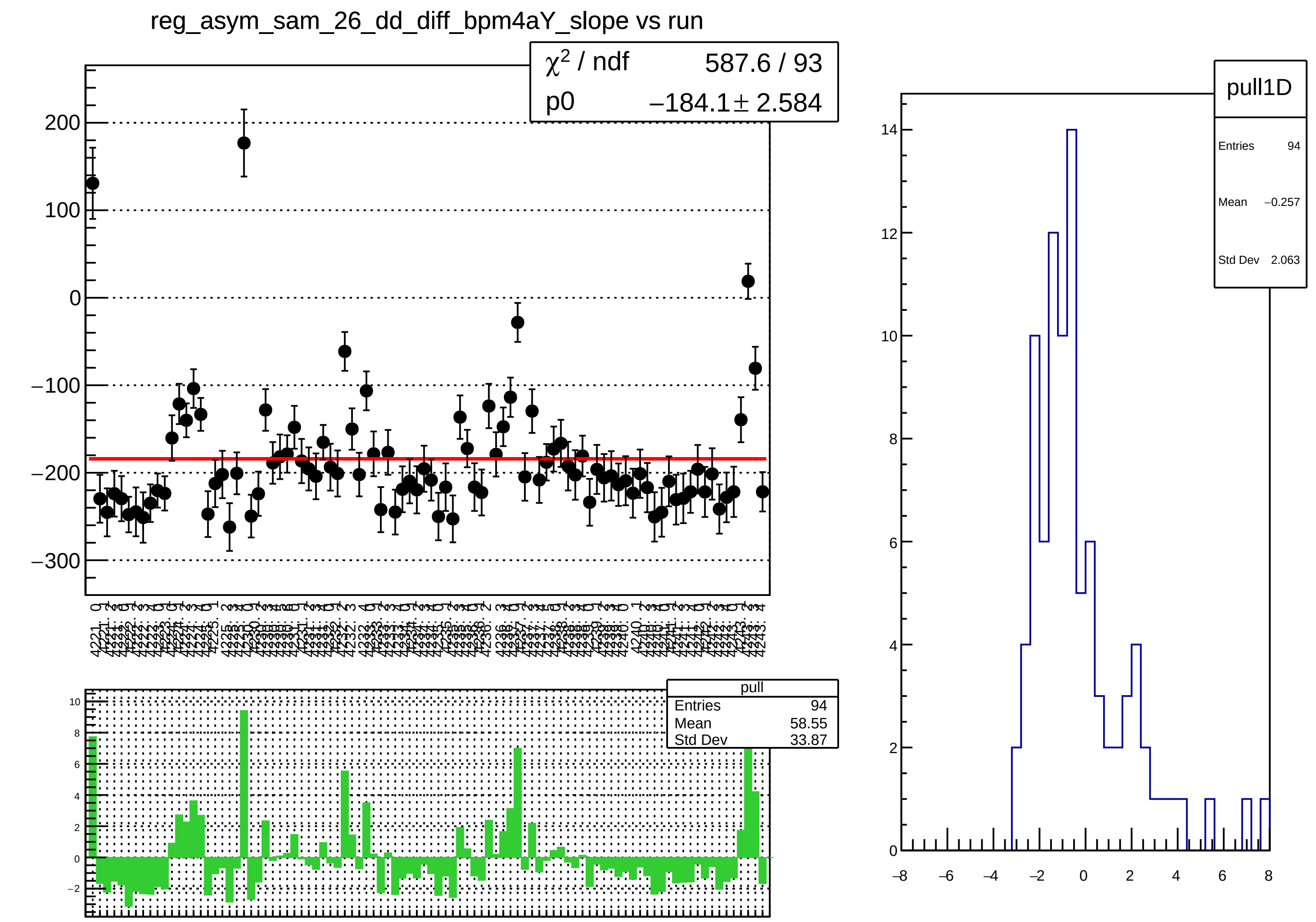
reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 627.2 / 93
p0 58.64 ± 2.07
pull
Entries 94
Mean −27.8
Std Dev 64.73
pull1D
Entries 94
Mean 0.3471
Std Dev 2.057



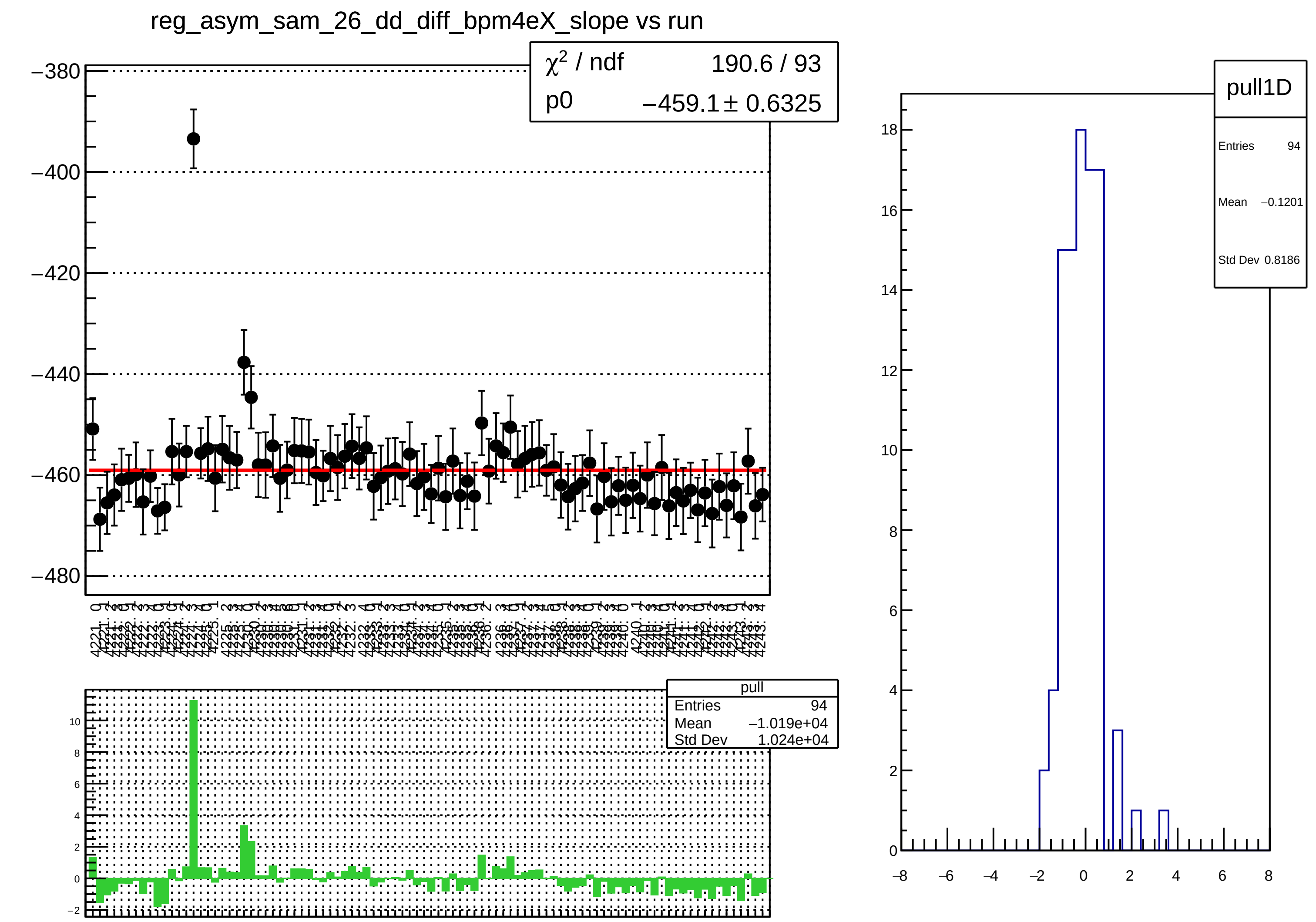
reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ^2 / ndf 142.1 / 93
p0 −5.51 ± 0.3932
pull
Entries 94
Mean −463.1
Std Dev 509
pull1D
Entries 94
Mean −0.03179
Std Dev 1.229



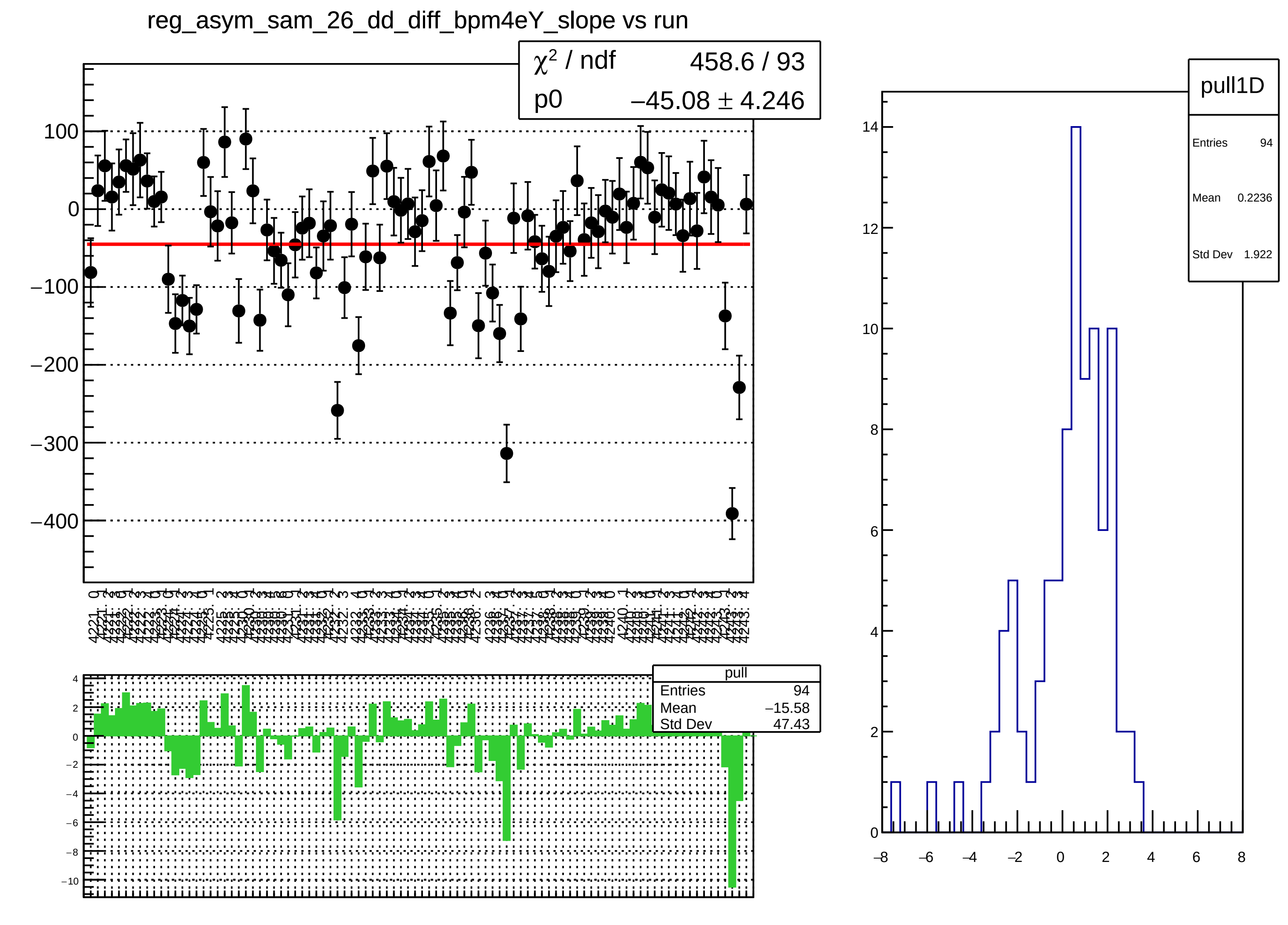
reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 75.75 / 93
p0 119.6 ± 3.079
pull
Entries 94
Mean −287.9
Std Dev 335.6
pull1D
Entries 94
Mean −0.01356
Std Dev 0.8976



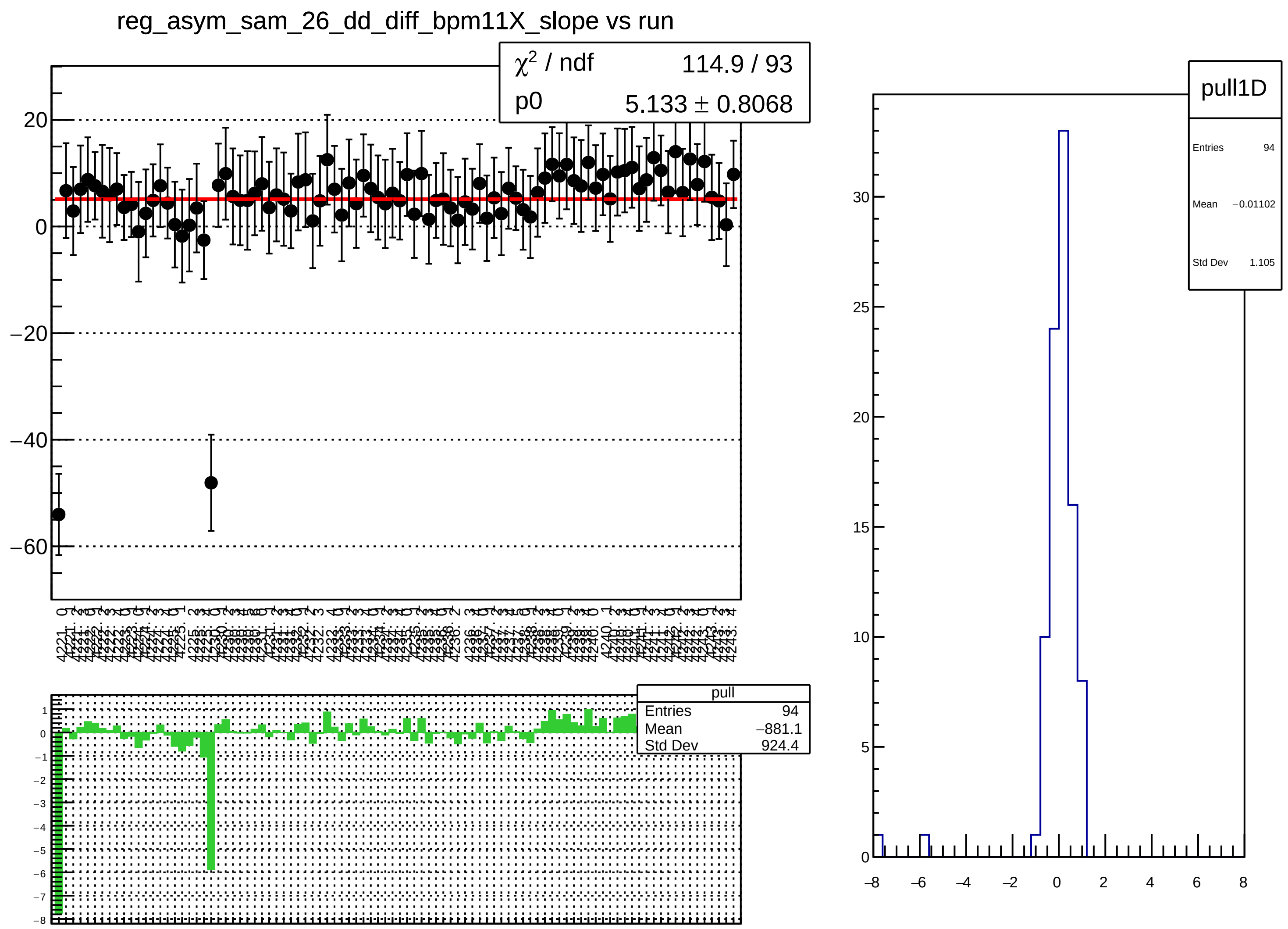
reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 587.6 / 93
p0 −184.1 ± 2.584
pull
Entries 94
Mean 58.55
Std Dev 33.87
pull1D
Entries 94
Mean −0.257
Std Dev 2.063



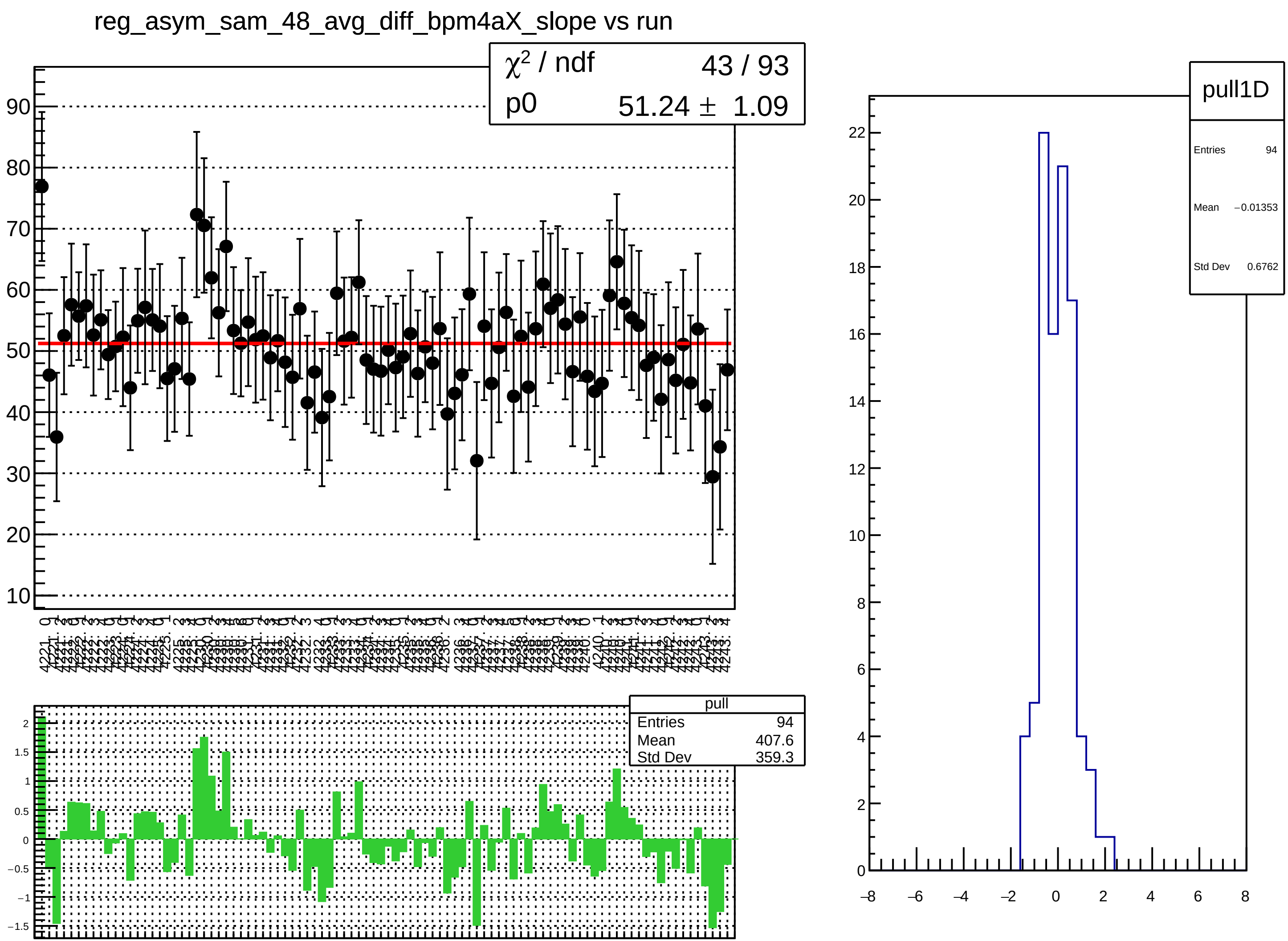
reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ2 / ndf 190.6 / 93
p0 −459.1 ± 0.6325
pull
Entries 94
Mean −1.019e+04
Std Dev 1.024e+04
pull1D
Entries 94
Mean −0.1201
Std Dev 0.8186



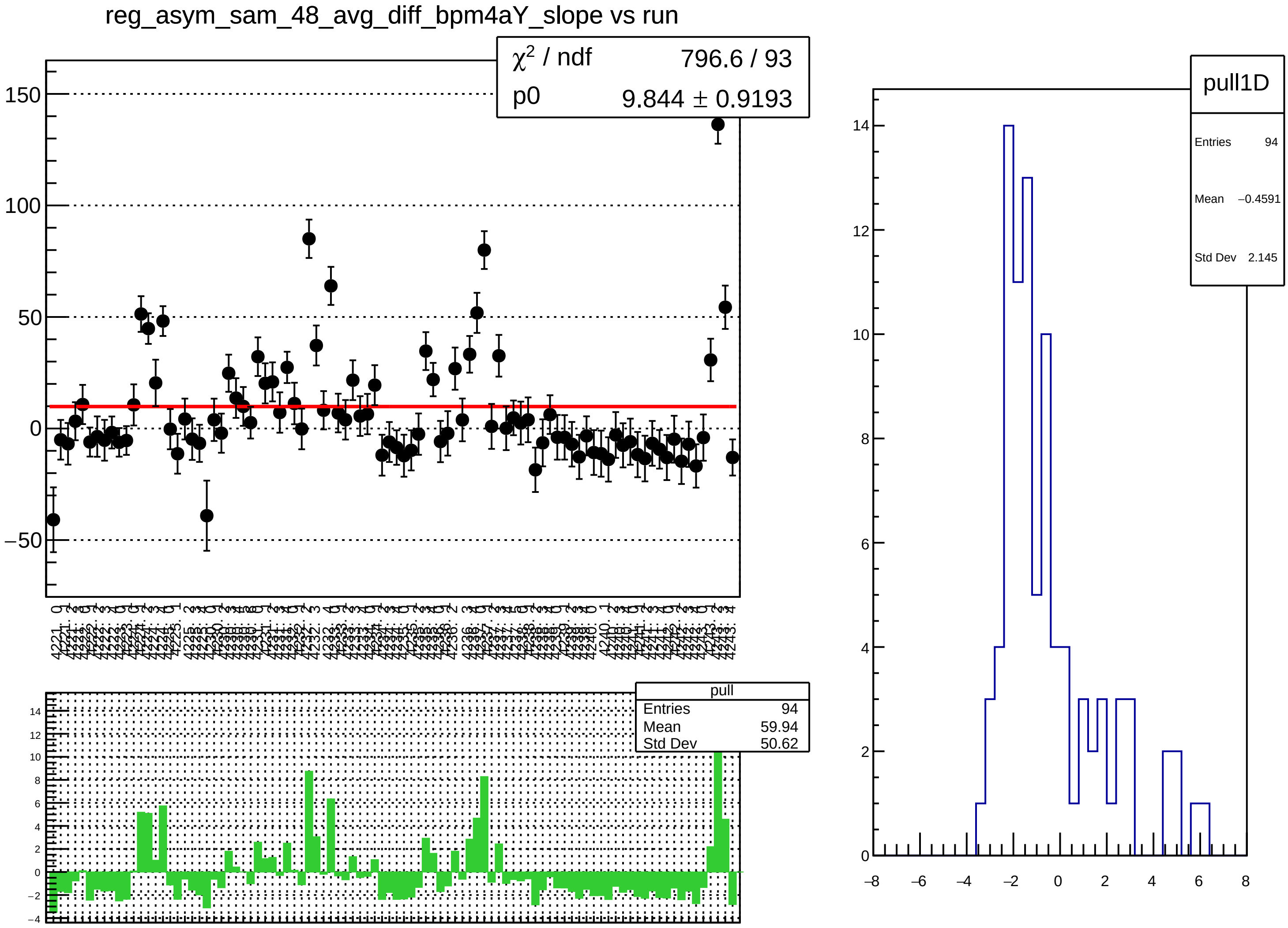
reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 458.6 / 93
p0 −45.08 ± 4.246
100
0
−100
−200
−300
−400
pull
Entries 94
Mean −15.58
Std Dev 47.43
pull1D
Entries 94
Mean 0.2236
Std Dev 1.922



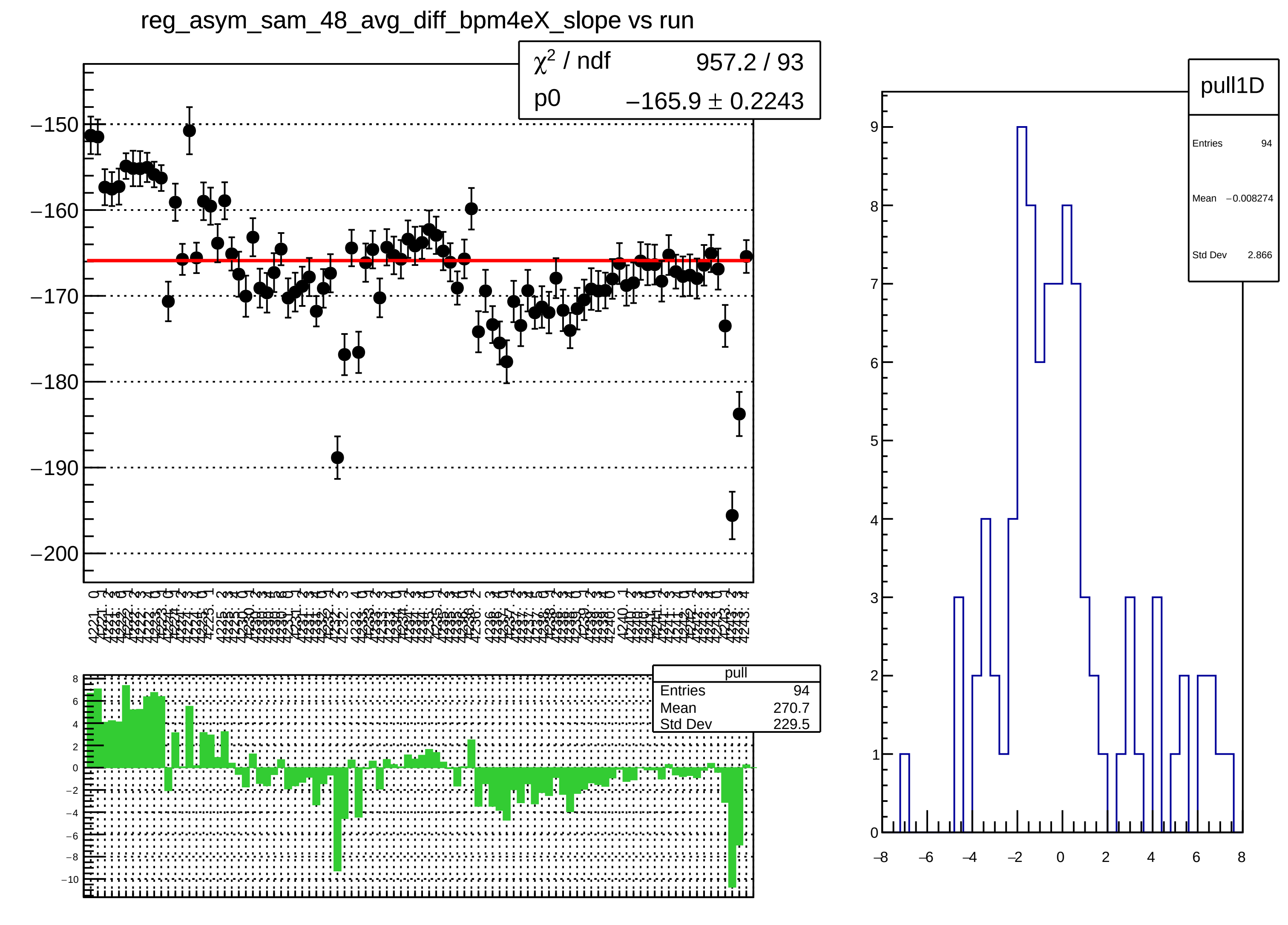
reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ^2 / ndf 114.9 / 93
p0 5.133 ± 0.8068
pull
Entries 94
Mean −881.1
Std Dev 924.4
pull1D
Entries 94
Mean −0.01102
Std Dev 1.105



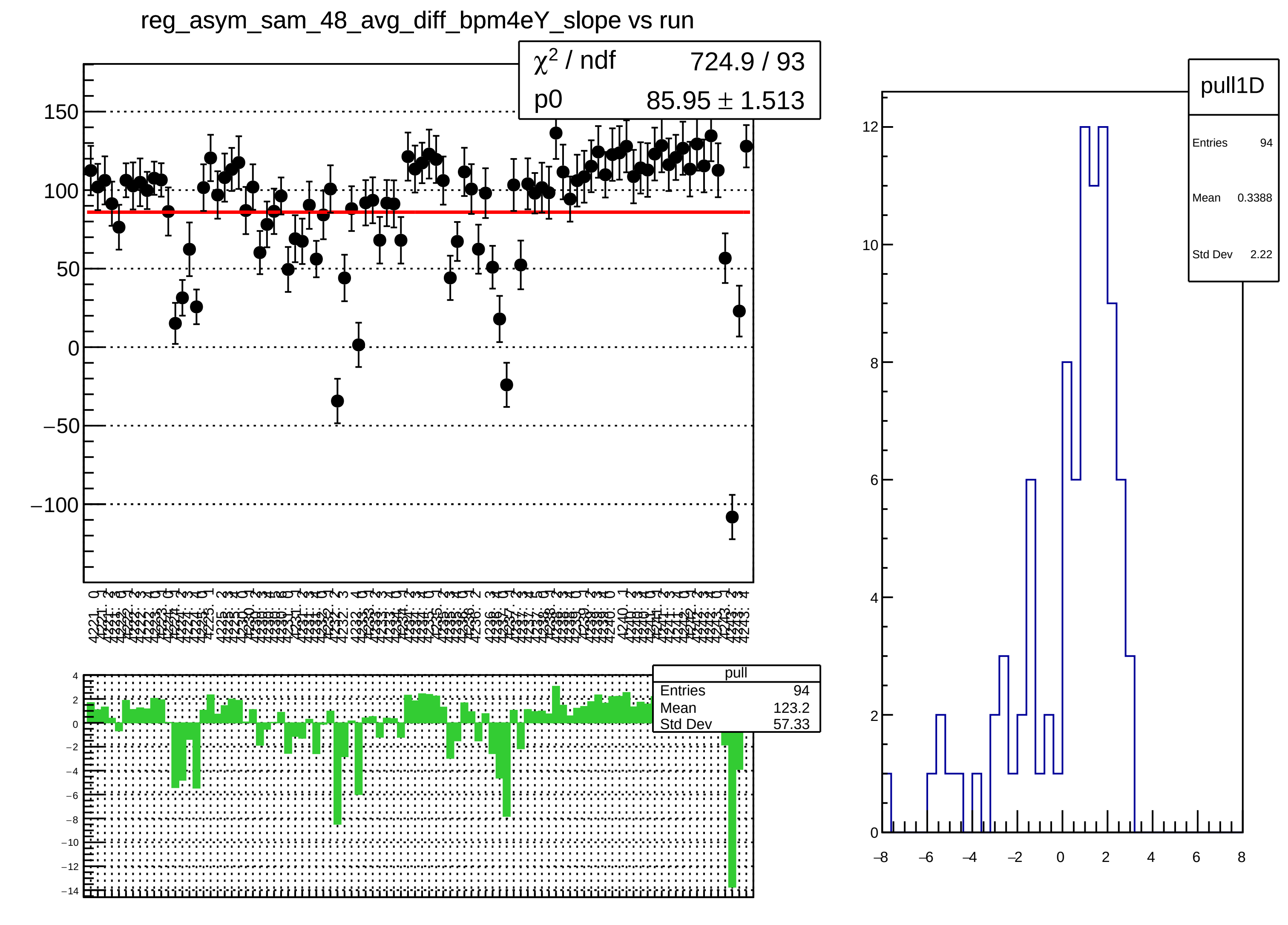
reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 43 / 93
p0 51.24 ± 1.09
pull
Entries 94
Mean 407.6
Std Dev 359.3
pull1D
Entries 94
Mean −0.01353
Std Dev 0.6762



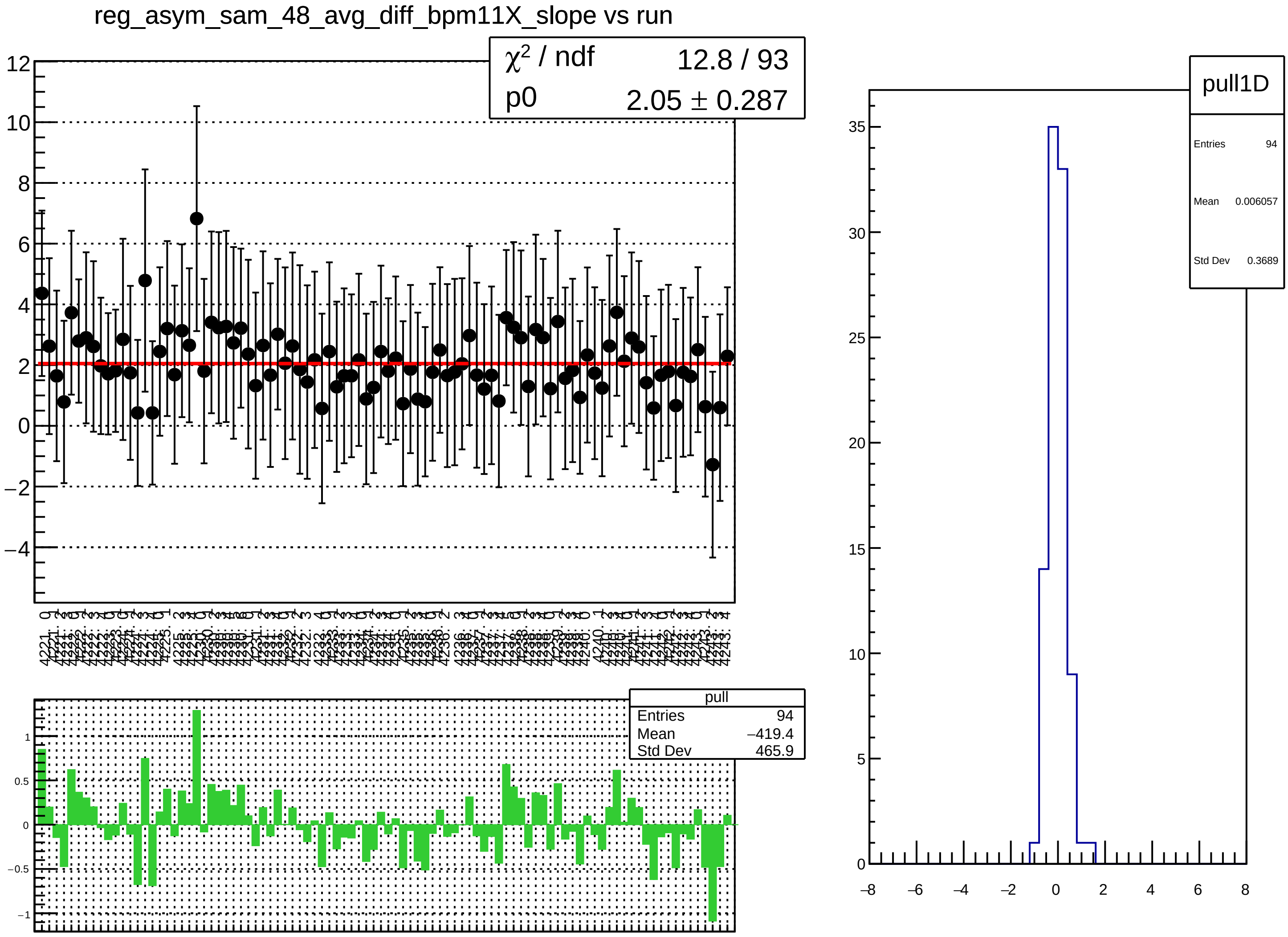
reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 796.6 / 93
p0 9.844 ± 0.9193
pull
Entries 94
Mean 59.94
Std Dev 50.62
pull1D
Entries 94
Mean −0.4591
Std Dev 2.145



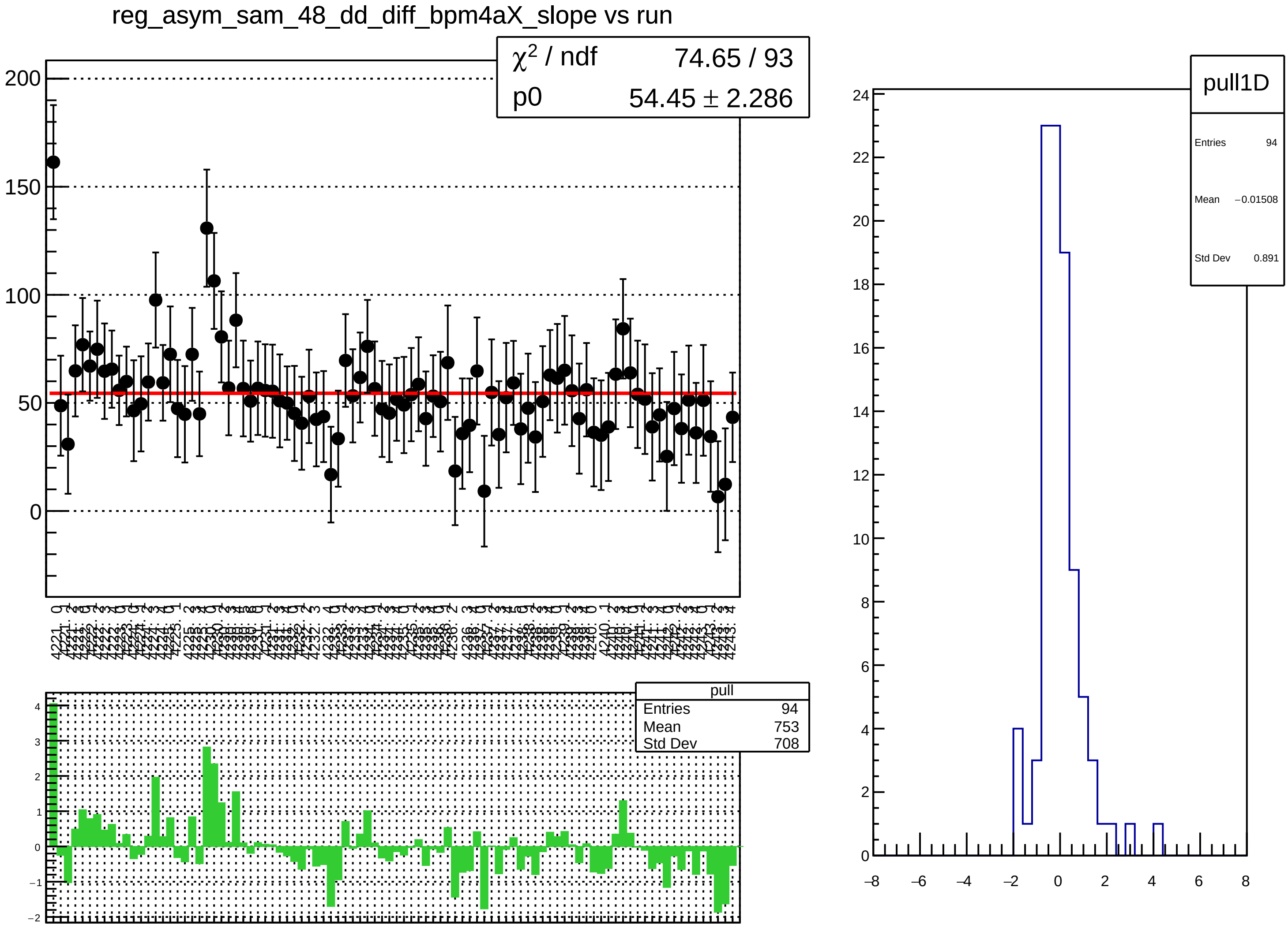
reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 957.2 / 93
p0 −165.9 ± 0.2243
pull
Entries 94
Mean 270.7
Std Dev 229.5
pull1D
Entries 94
Mean −0.008274
Std Dev 2.866

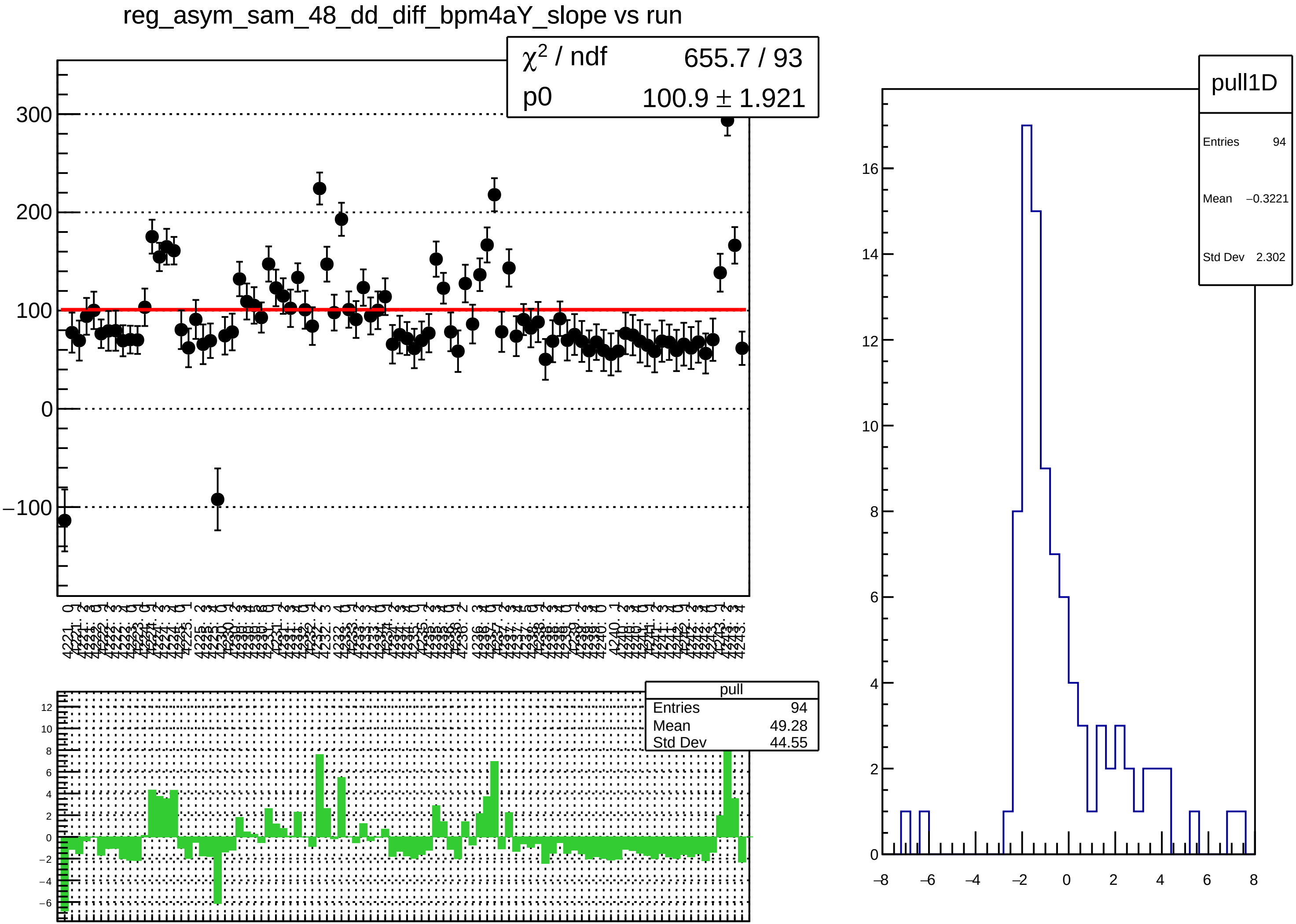


reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 724.9 / 93
p0 85.95 ± 1.513
pull
Entries 94
Mean 123.2
Std Dev 57.33
pull1D
Entries 94
Mean 0.3388
Std Dev 2.22

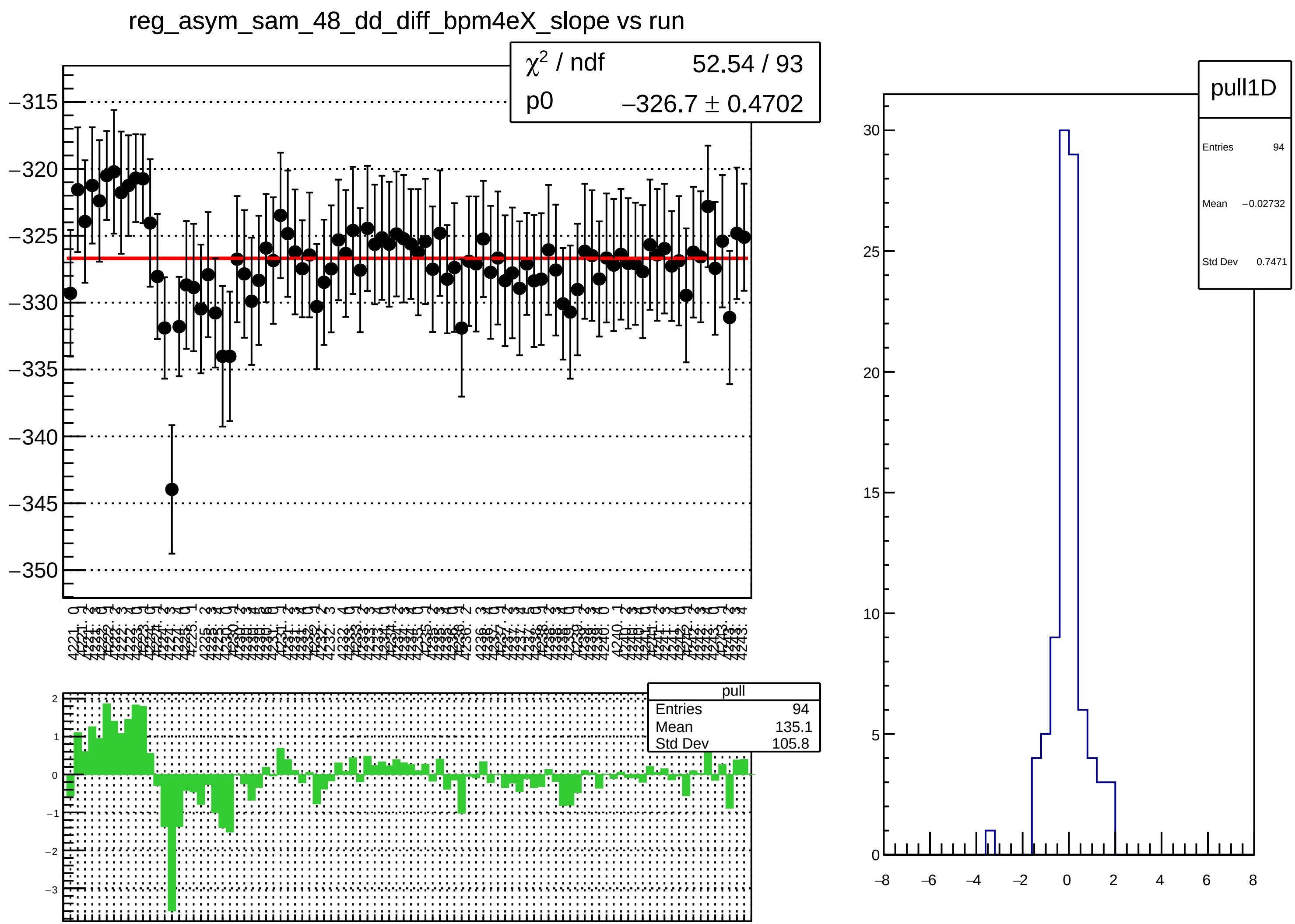


reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ^2 / ndf 12.8 / 93
p0 2.05 ± 0.287
pull
Entries 94
Mean −419.4
Std Dev 465.9
pull1D
Entries 94
Mean 0.006057
Std Dev 0.3689

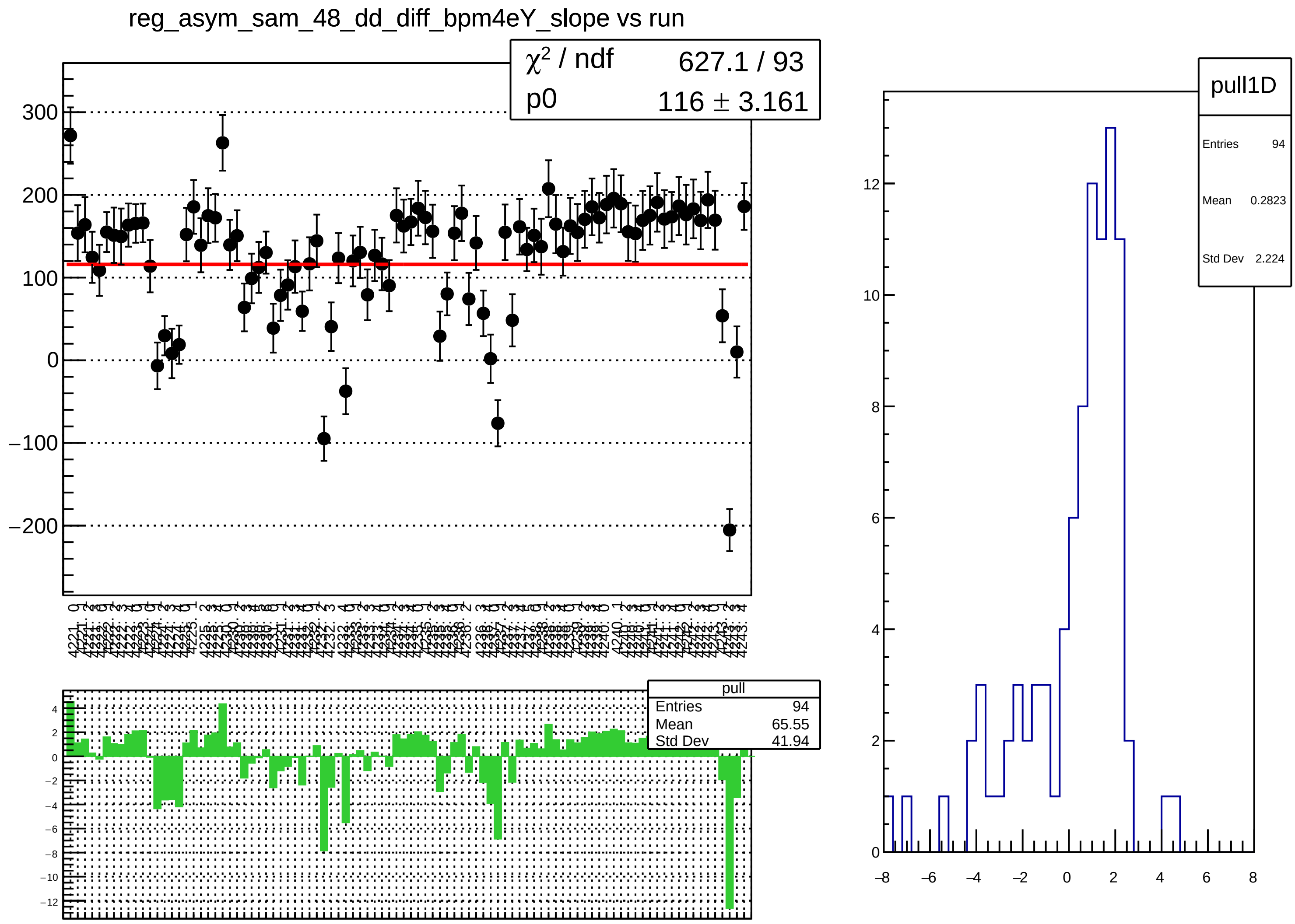

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 74.65 / 93
p0 54.45 ± 2.286
pull
Entries 94
Mean 753
Std Dev 708
pull1D
Entries 94
Mean −0.01508
Std Dev 0.891



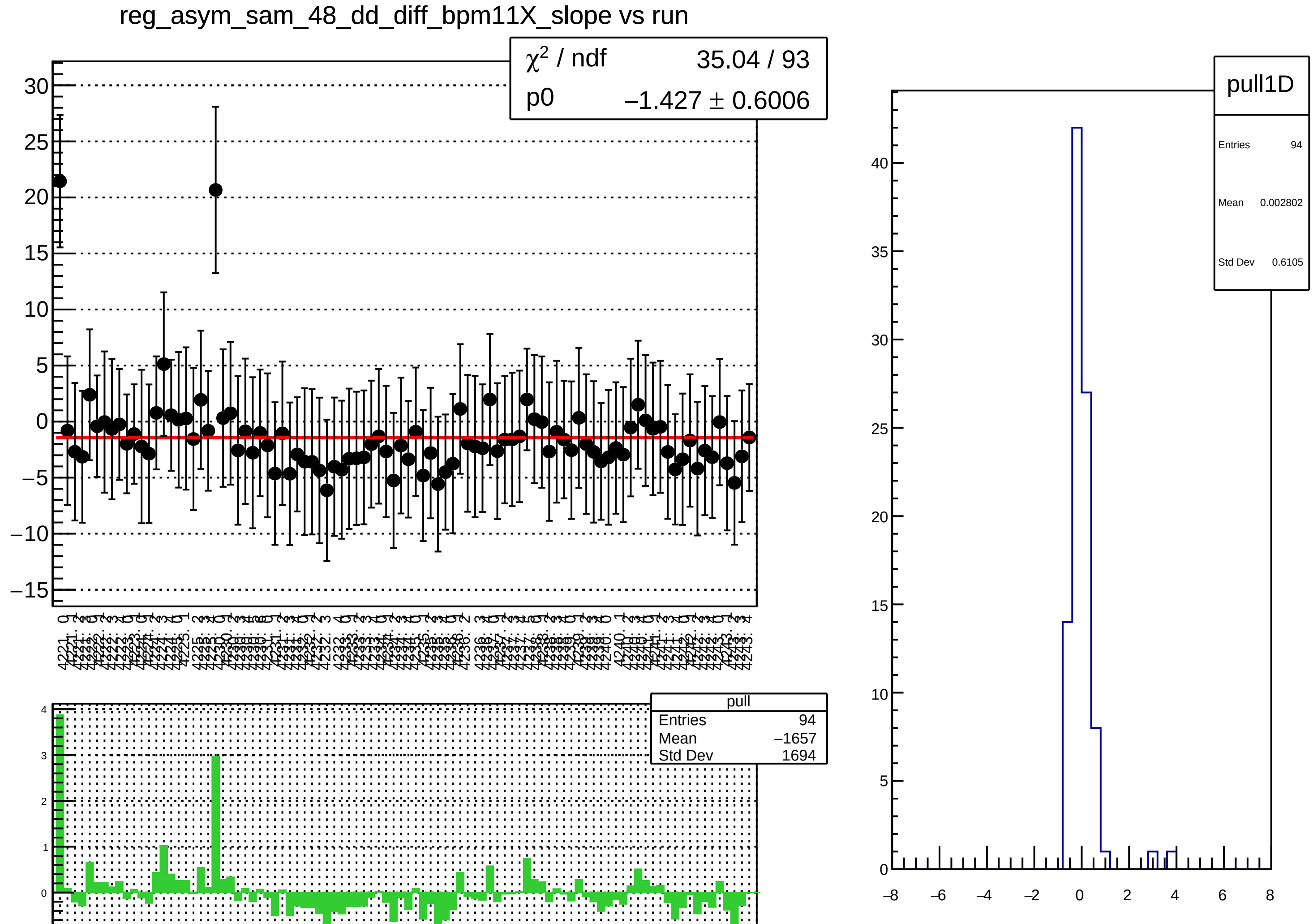
reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 655.7 / 93
p0 100.9 ± 1.921
pull
Entries 94
Mean 49.28
Std Dev 44.55
pull1D
Entries 94
Mean −0.3221
Std Dev 2.302



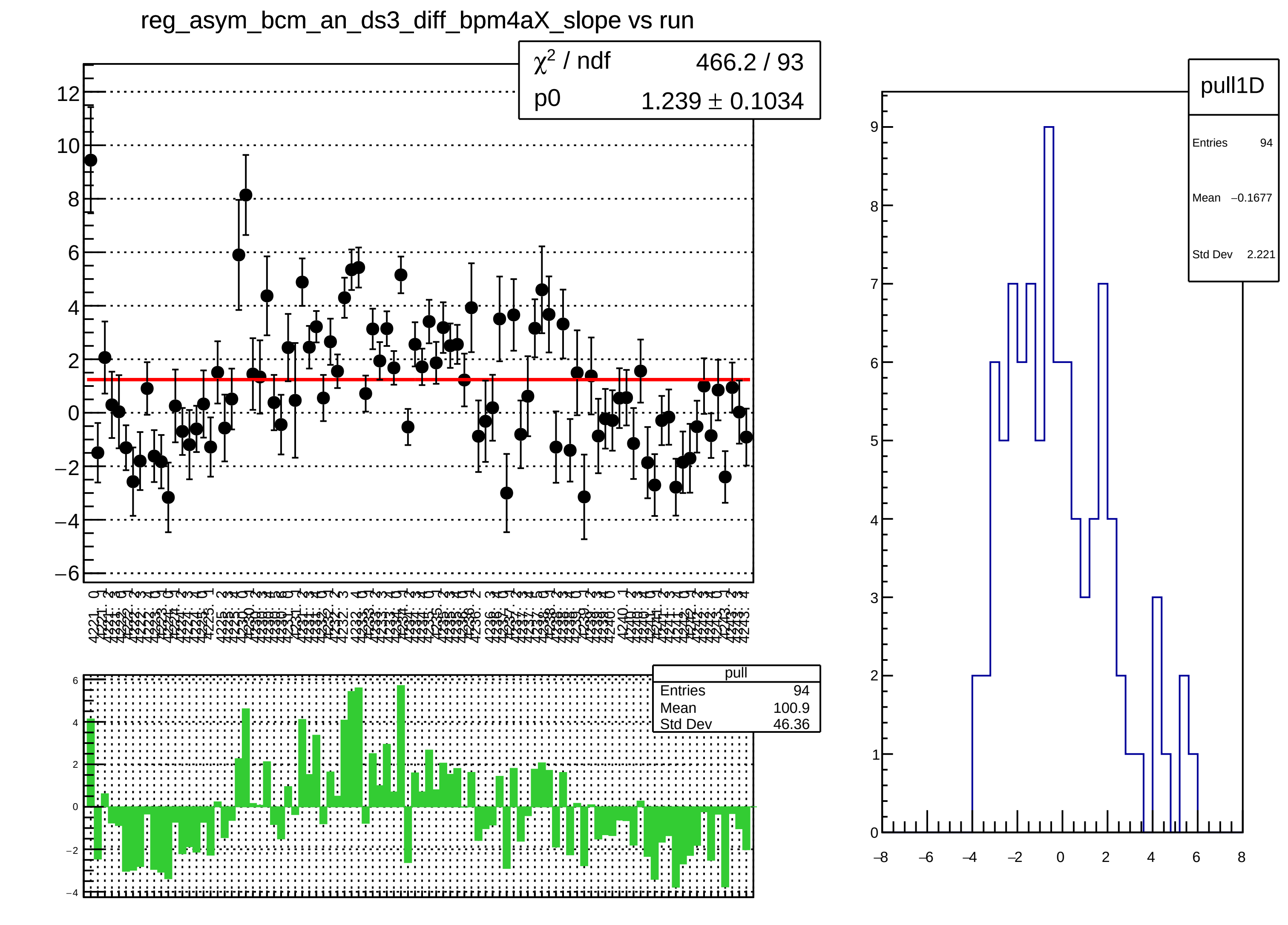
reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 52.54 / 93
p0 −326.7 ± 0.4702
−315
−320
−325
−330
−335
−340
−345
−350
pull
Entries 94
Mean 135.1
Std Dev 105.8
pull1D
Entries 94
Mean −0.02732
Std Dev 0.7471



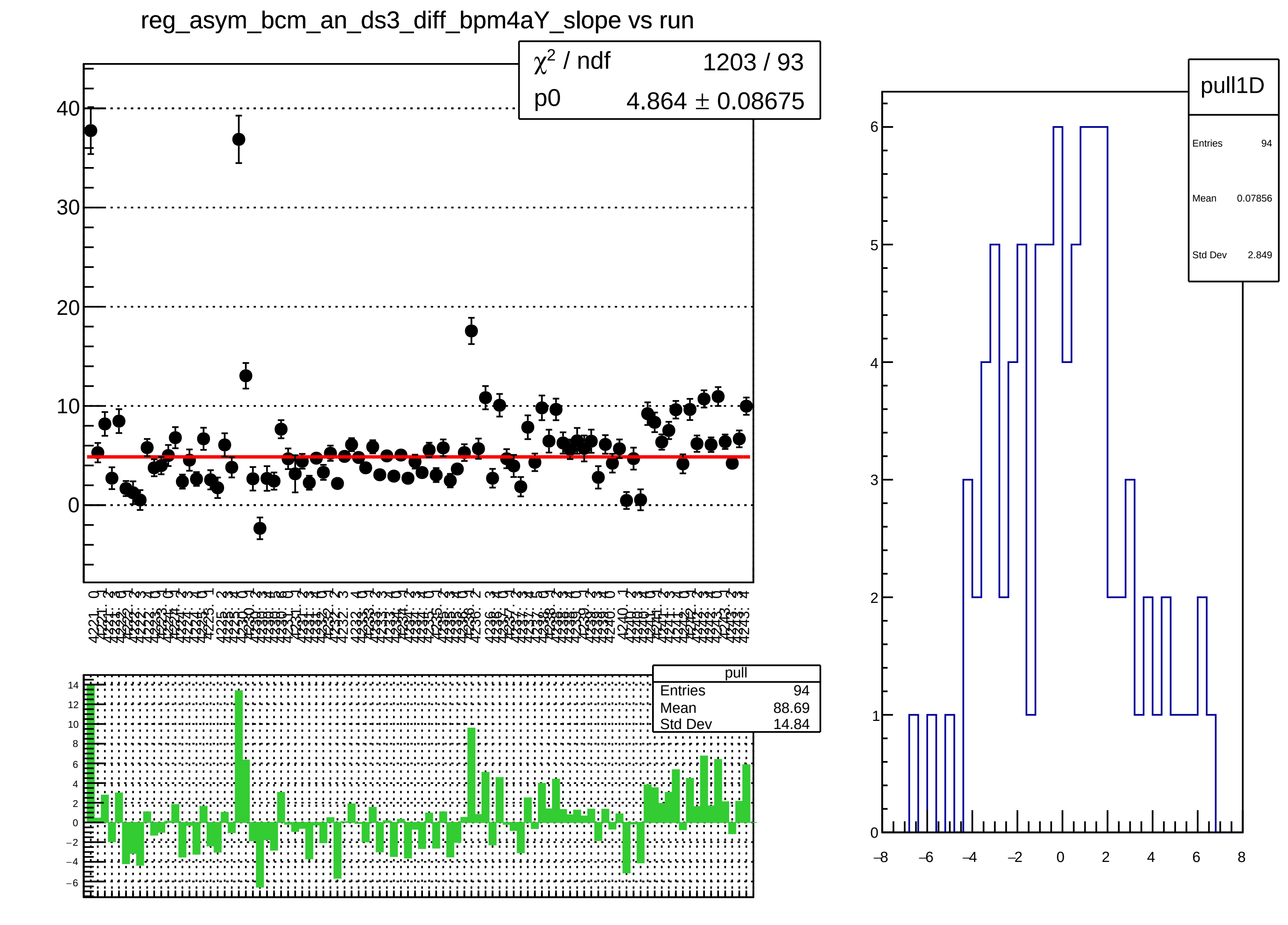
reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 627.1 / 93
p0 116 ± 3.161
pull
Entries 94
Mean 65.55
Std Dev 41.94
pull1D
Entries 94
Mean 0.2823
Std Dev 2.224

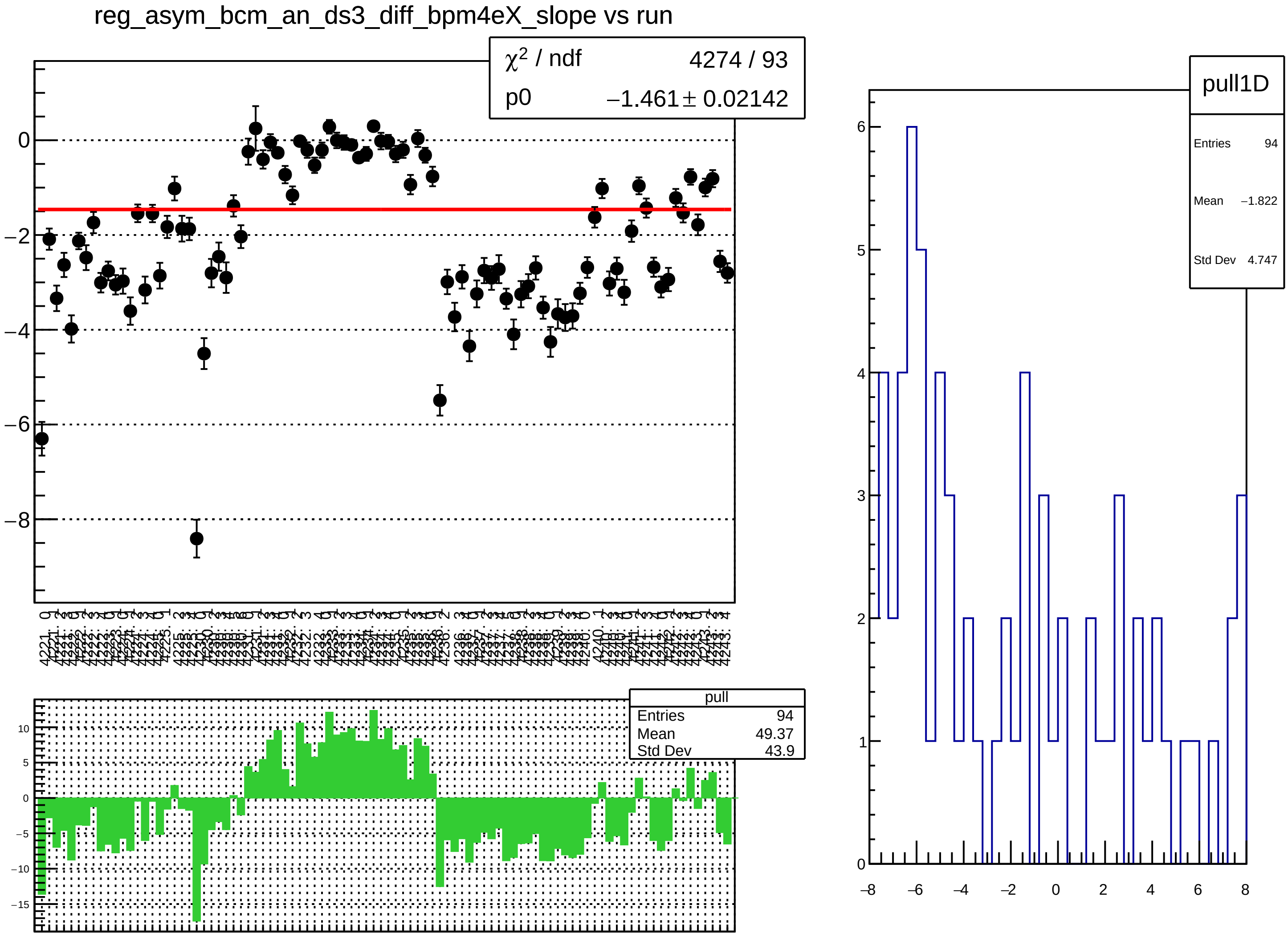


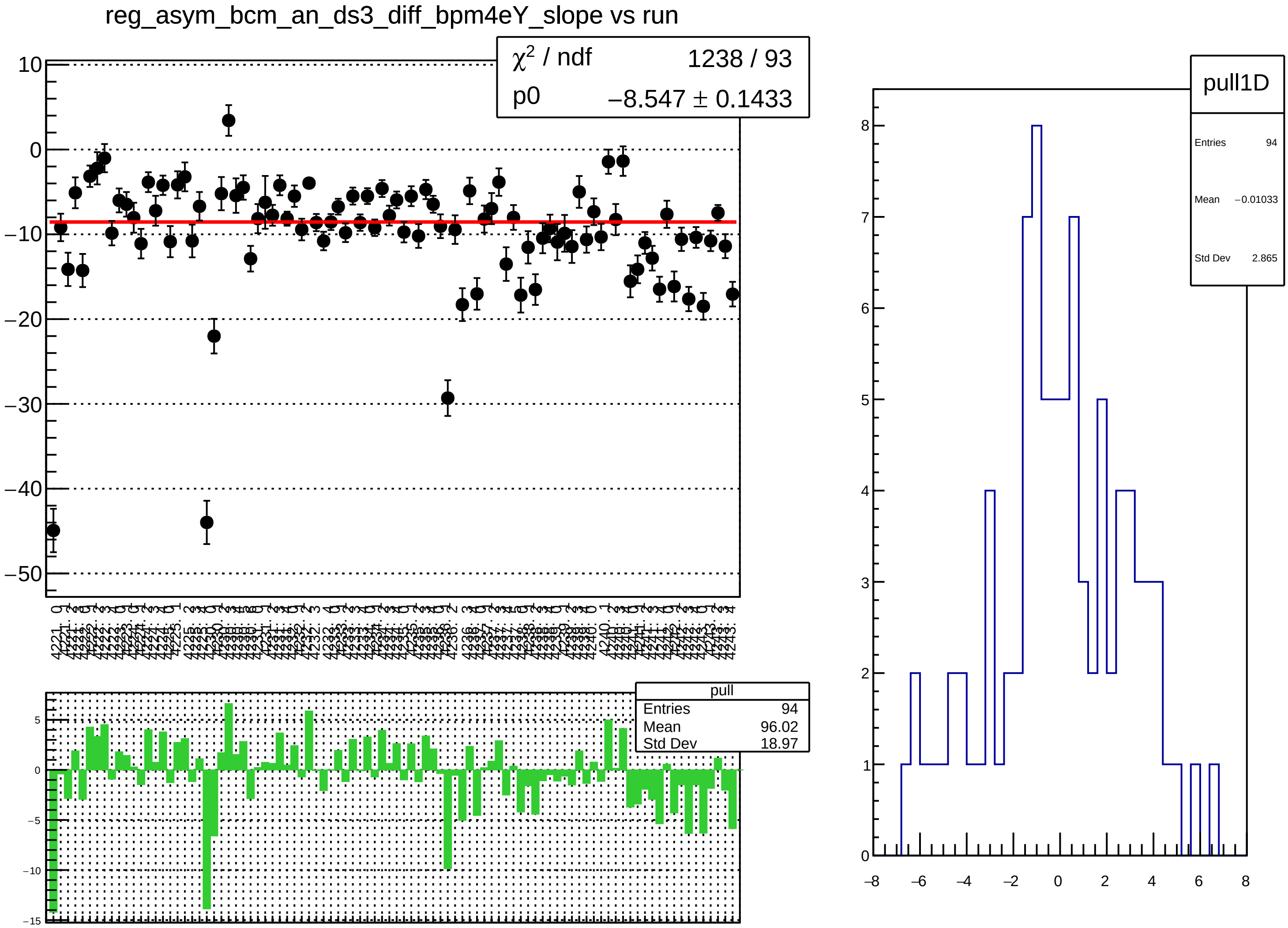
reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ2 / ndf 35.04 / 93
p0 −1.427 ± 0.6006
pull
Entries 94
Mean −1657
Std Dev 1694
pull1D
Entries 94
Mean 0.002802
Std Dev 0.6105



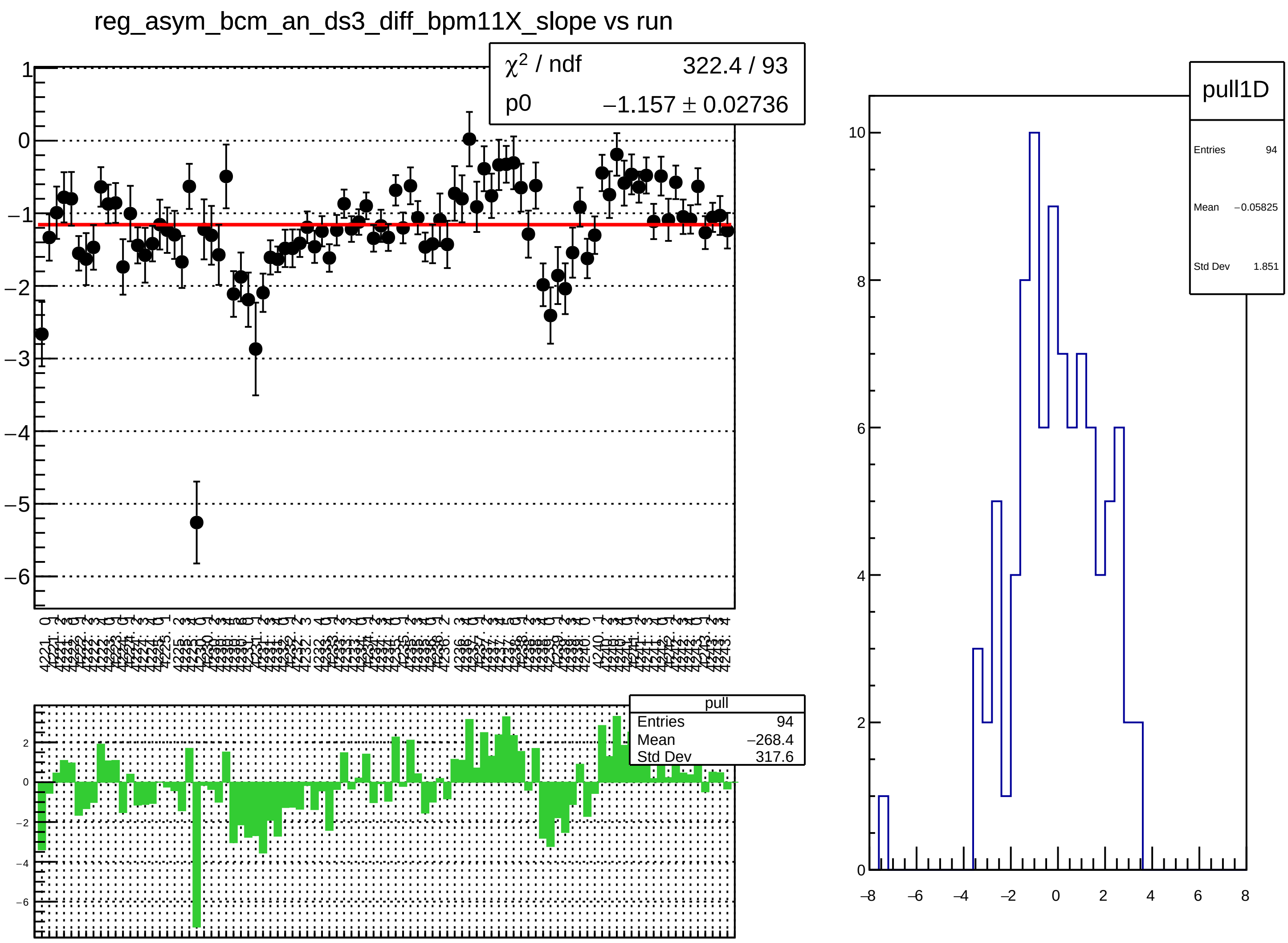
reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ^2 / ndf 466.2 / 93
p0 1.239 ± 0.1034
pull
Entries 94
Mean 100.9
Std Dev 46.36
pull1D
Entries 94
Mean −0.1677
Std Dev 2.221


reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ^2 / ndf 1203 / 93
p0 4.864 ± 0.08675
pull
Entries 94
Mean 88.69
Std Dev 14.84
pull1D
Entries 94
Mean 0.07856
Std Dev 2.849

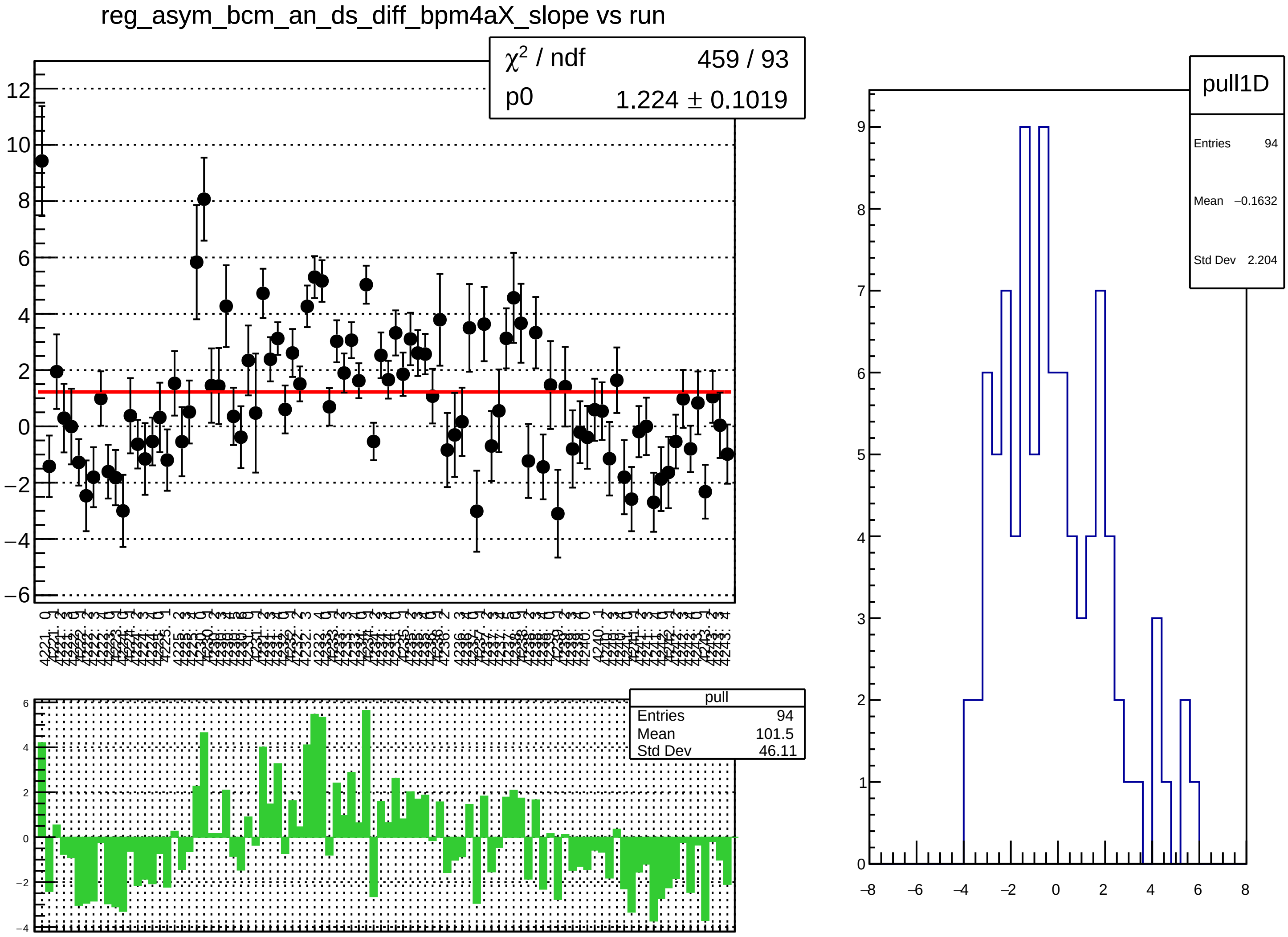

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ^2 / ndf 4274 / 93
p0 −1.461 ± 0.02142
0
−2
−4
−6
−8
pull
Entries 94
Mean 49.37
Std Dev 43.9
10
5
0
−5
−10
−15
pull1D
Entries 94
Mean −1.822
Std Dev 4.747
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

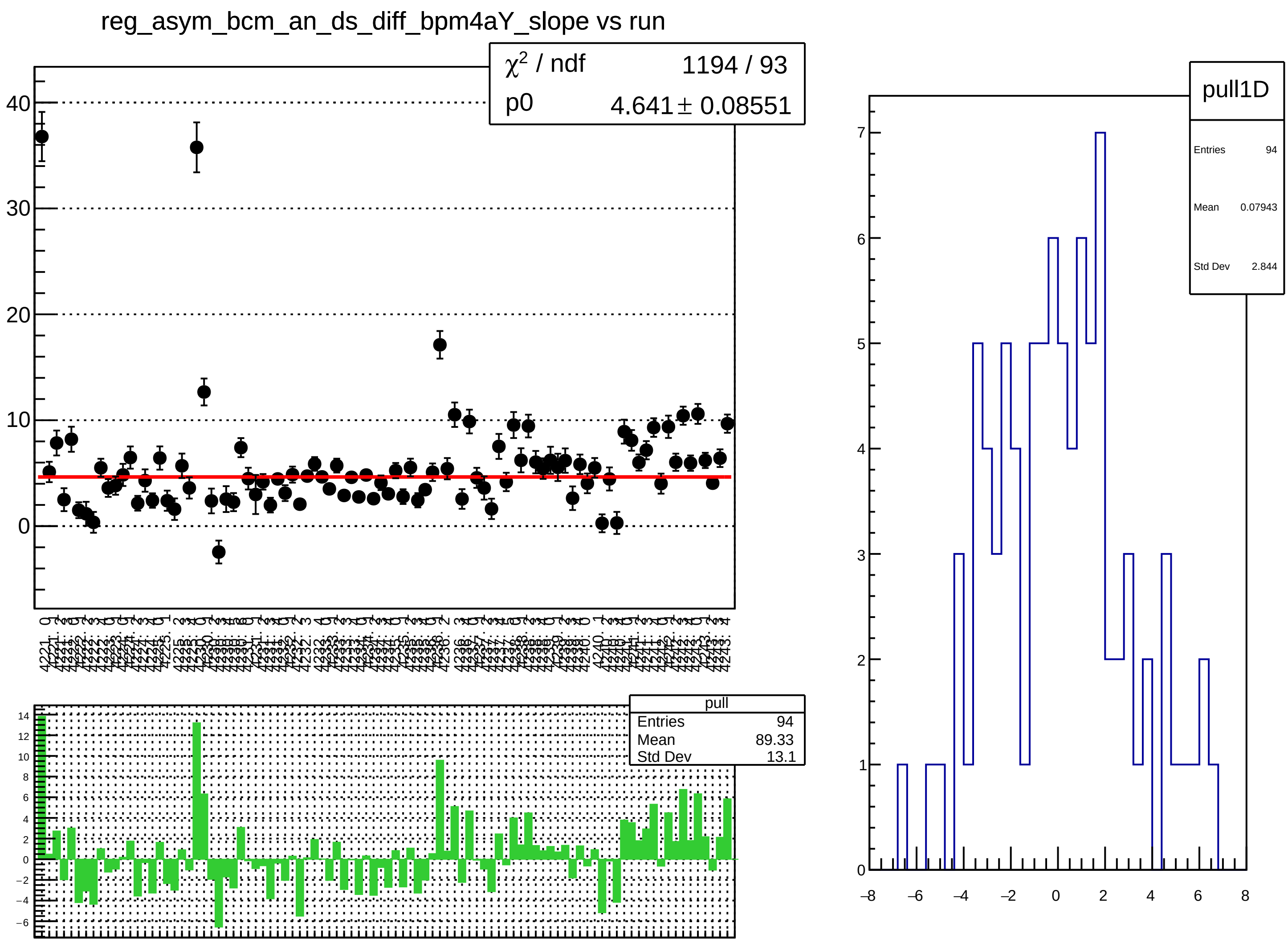


reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ^2 / ndf 1238 / 93
p0 −8.547 ± 0.1433
pull
Entries 94
Mean 96.02
Std Dev 18.97
pull1D
Entries 94
Mean −0.01033
Std Dev 2.865

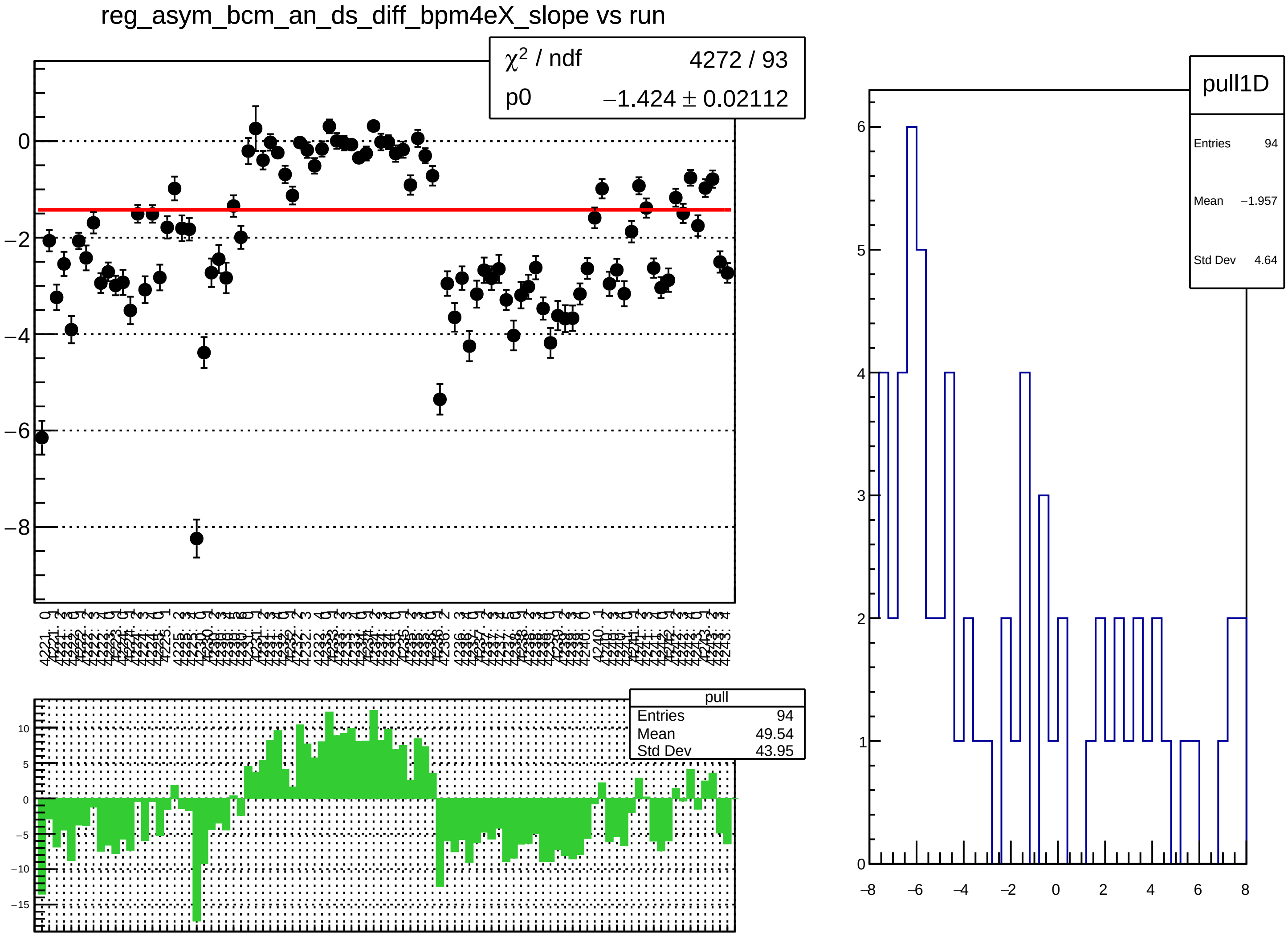


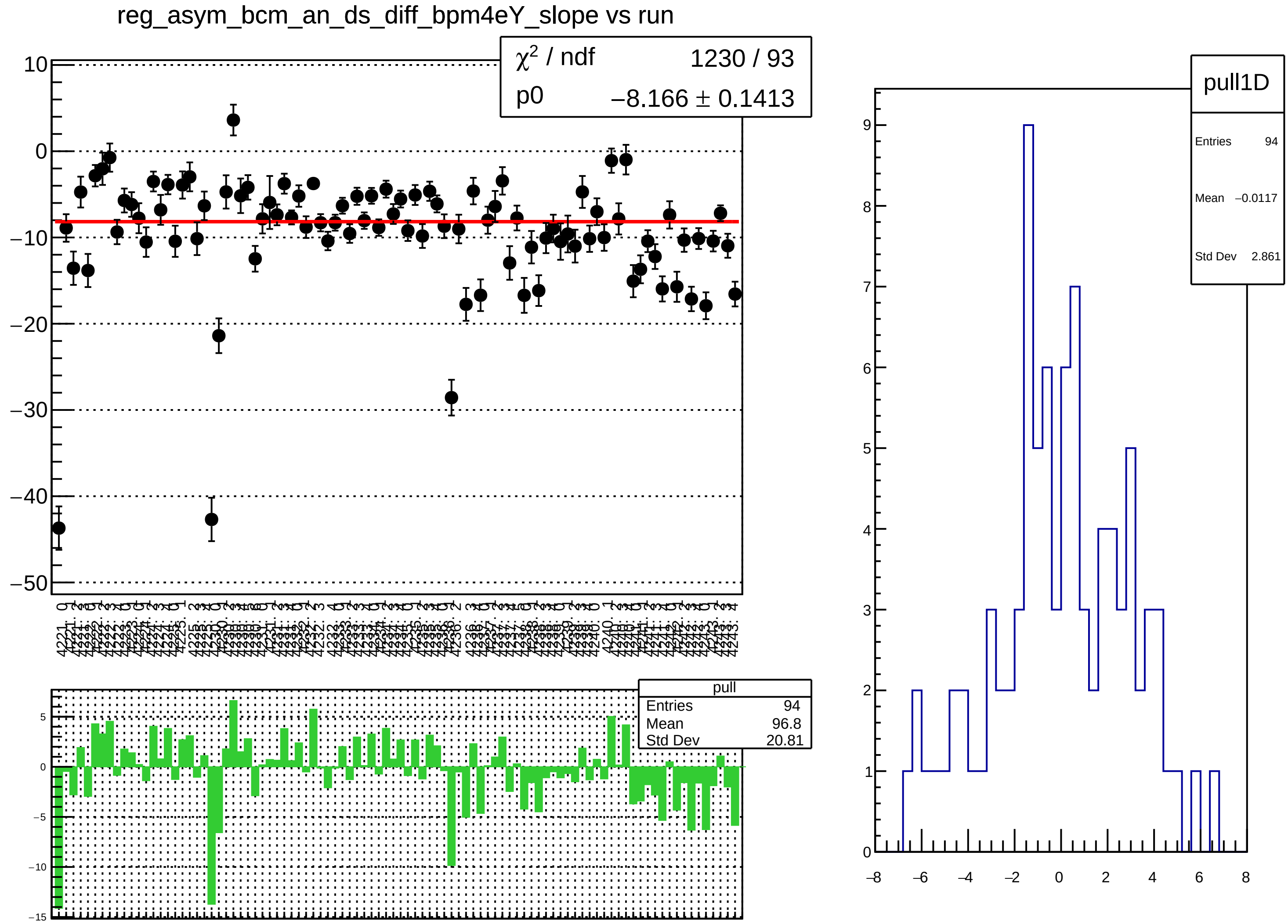
reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ^2 / ndf 322.4 / 93
p0 −1.157 ± 0.02736
pull
Entries 94
Mean −268.4
Std Dev 317.6
pull1D
Entries 94
Mean −0.05825
Std Dev 1.851


reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ^2 / ndf 459 / 93
p0 1.224 ± 0.1019
pull
Entries 94
Mean 101.5
Std Dev 46.11
pull1D
Entries 94
Mean −0.1632
Std Dev 2.204

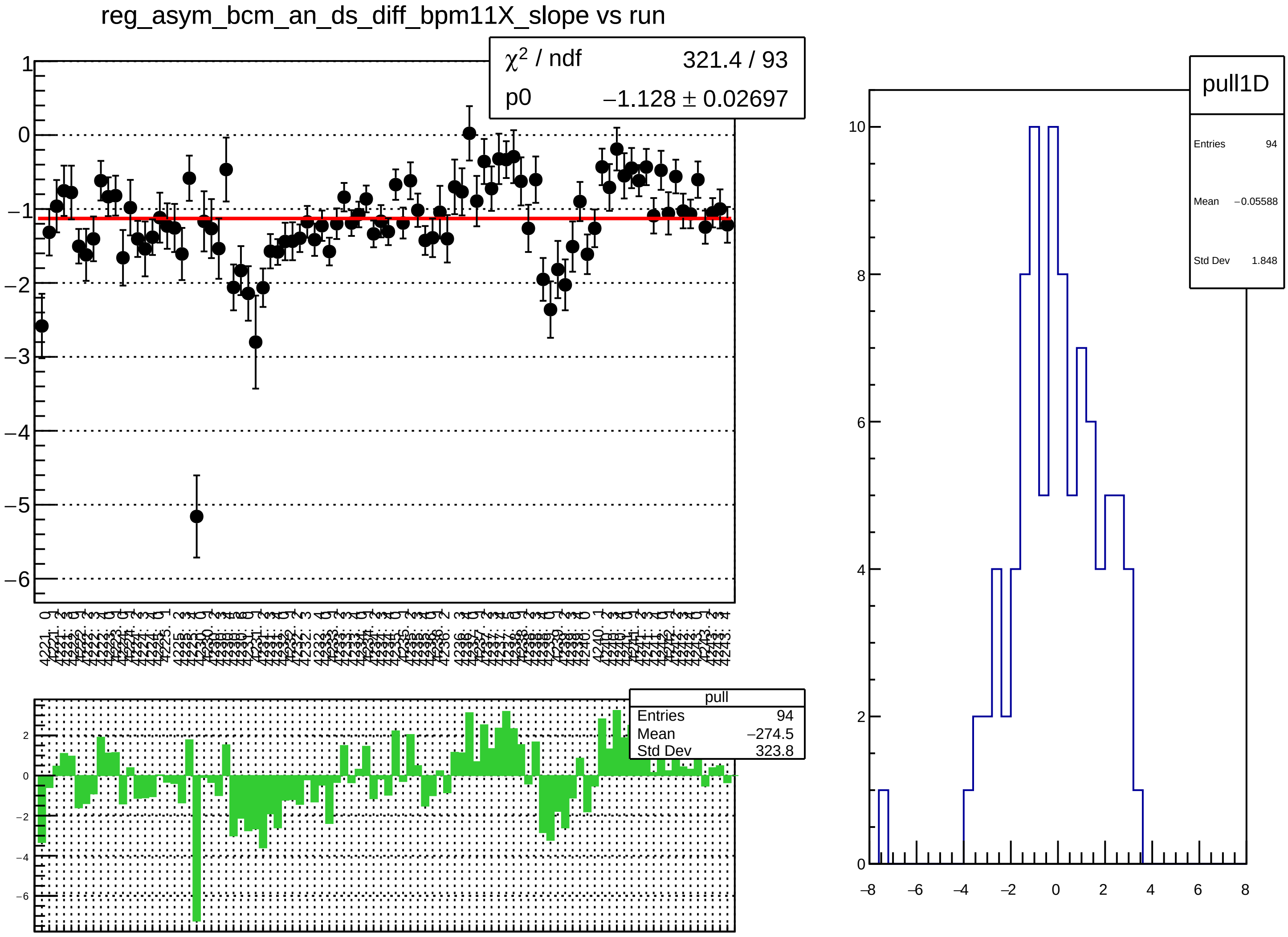


reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ^2 / ndf 1194 / 93
p0 4.641 ± 0.08551
pull
Entries 94
Mean 89.33
Std Dev 13.1
pull1D
Entries 94
Mean 0.07943
Std Dev 2.844

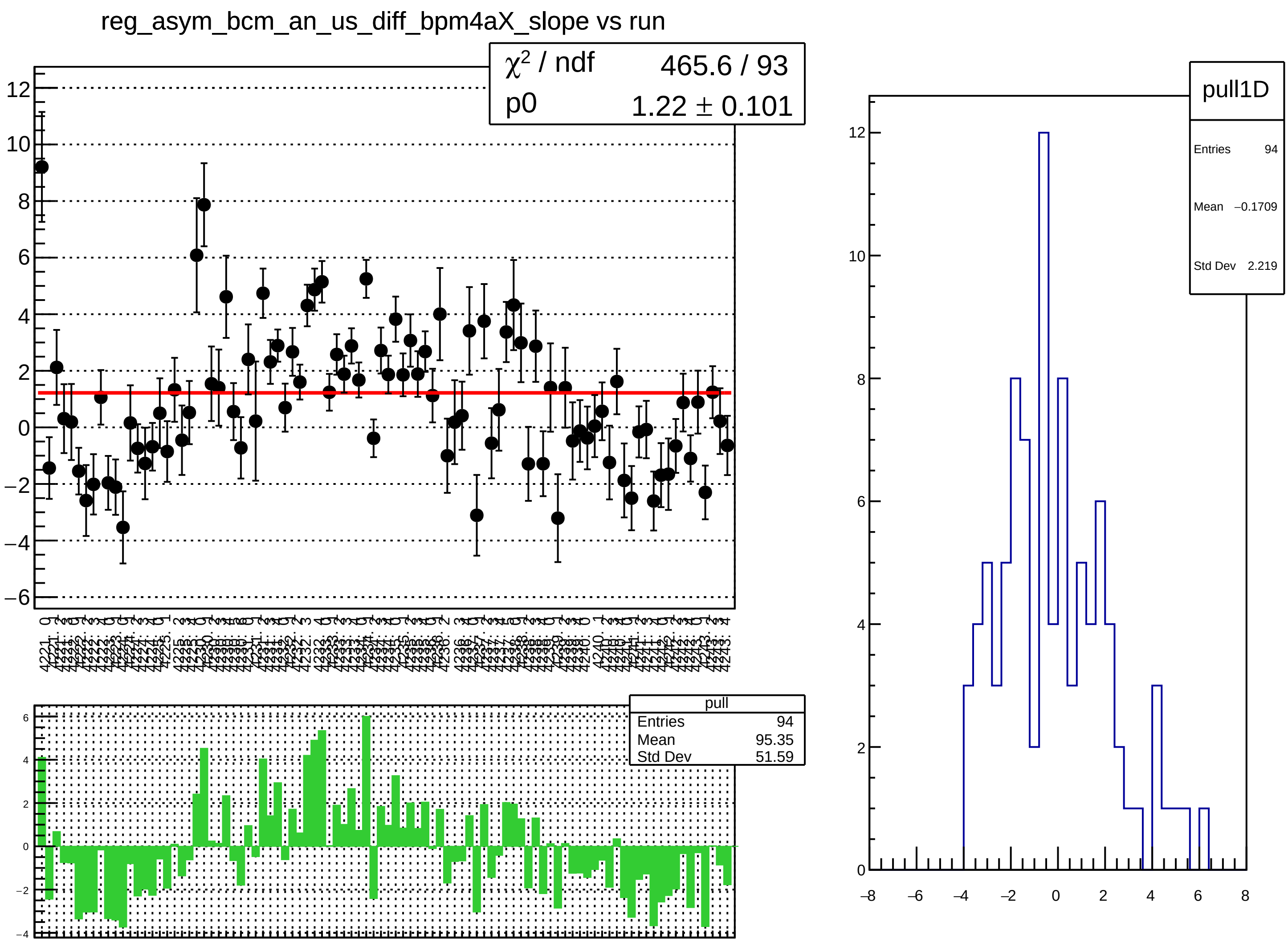

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ2 / ndf 4272 / 93
p0 −1.424 ± 0.02112
pull
Entries 94
Mean 49.54
Std Dev 43.95
pull1D
Entries 94
Mean −1.957
Std Dev 4.64



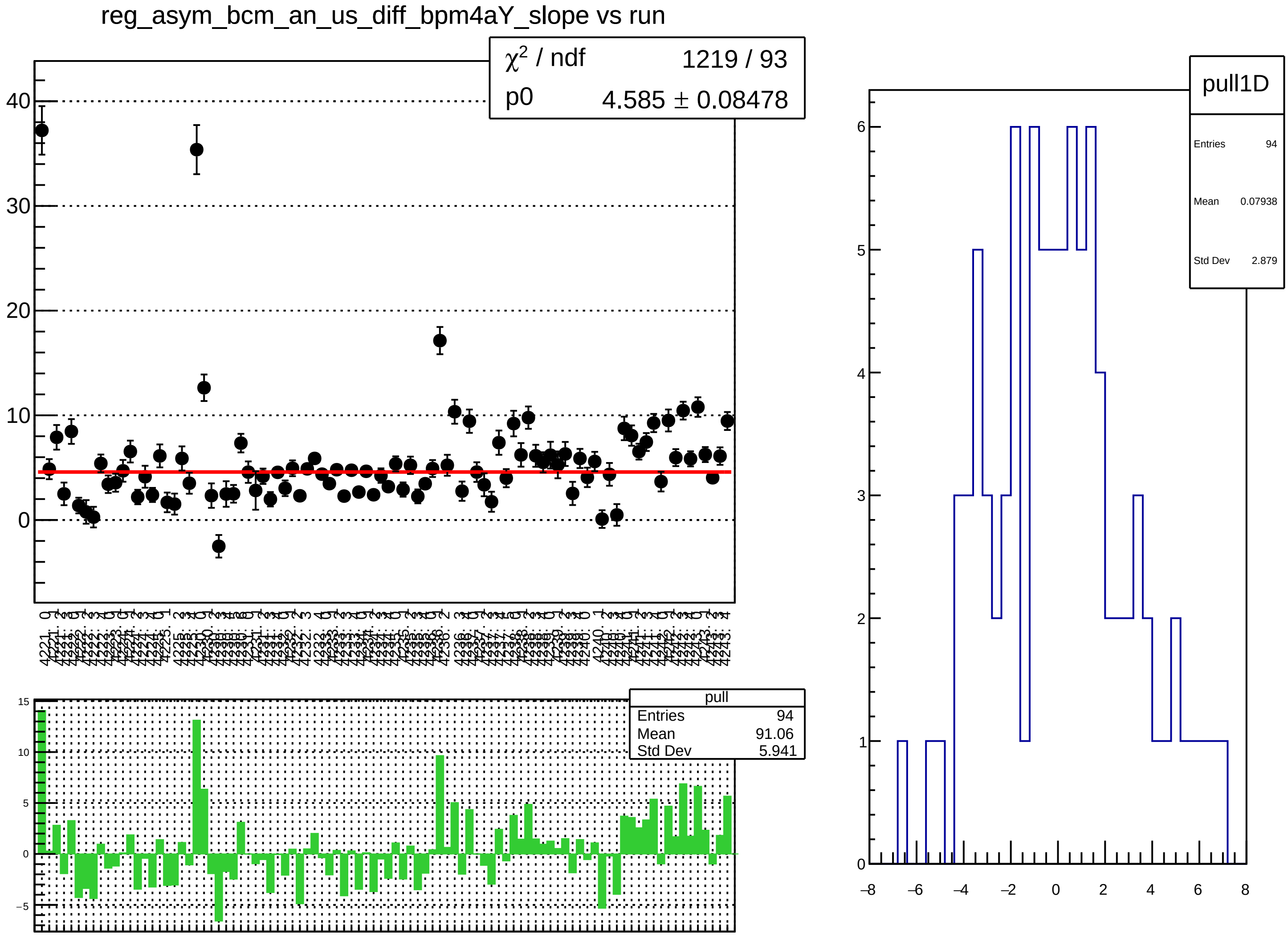
reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ^2 / ndf 1230 / 93
p0 −8.166 ± 0.1413
pull
Entries 94
Mean 96.8
Std Dev 20.81
pull1D
Entries 94
Mean −0.0117
Std Dev 2.861



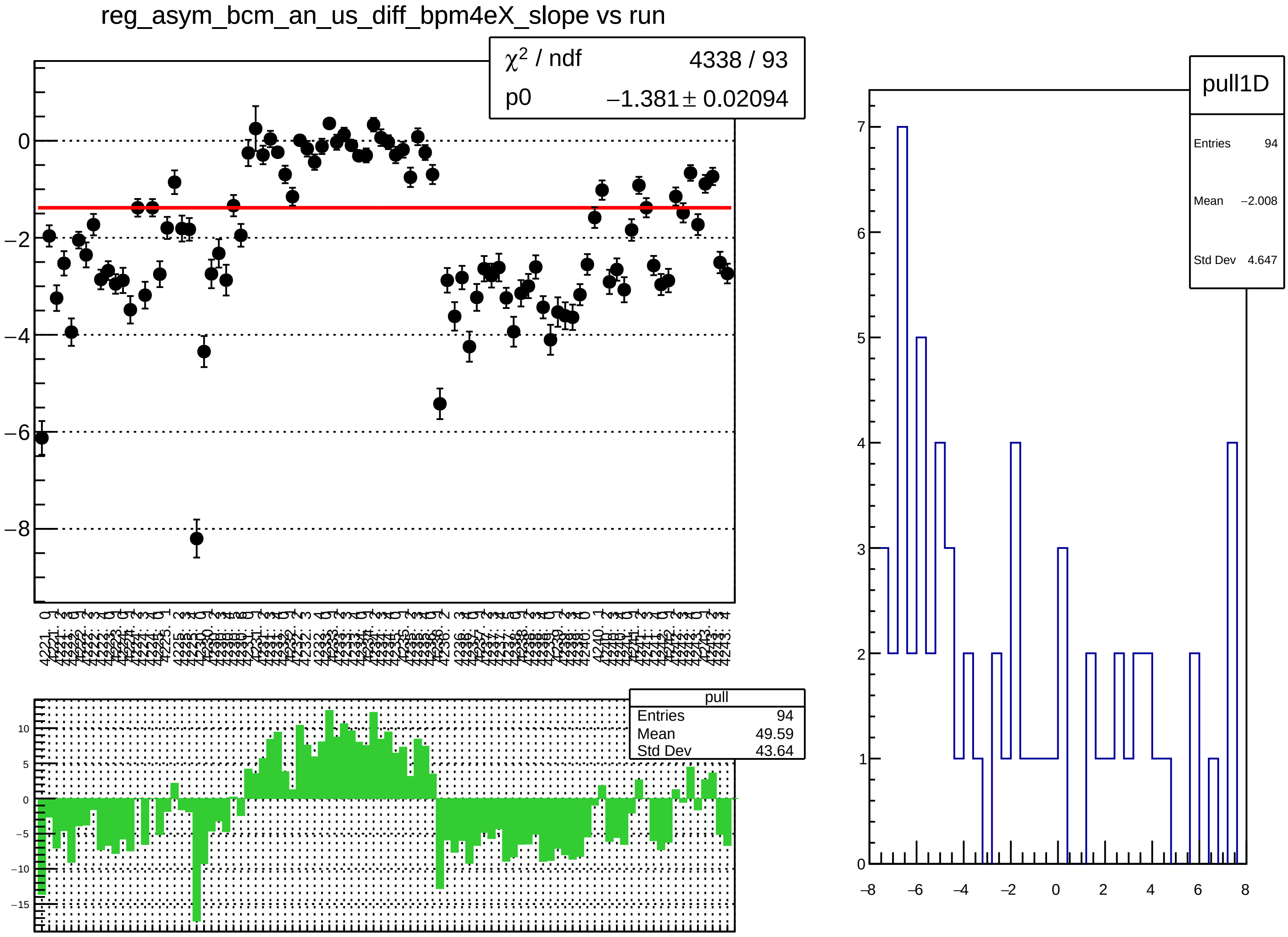
reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ^2 / ndf 321.4 / 93
p0 −1.128 ± 0.02697
pull
Entries 94
Mean −274.5
Std Dev 323.8
pull1D
Entries 94
Mean −0.05588
Std Dev 1.848



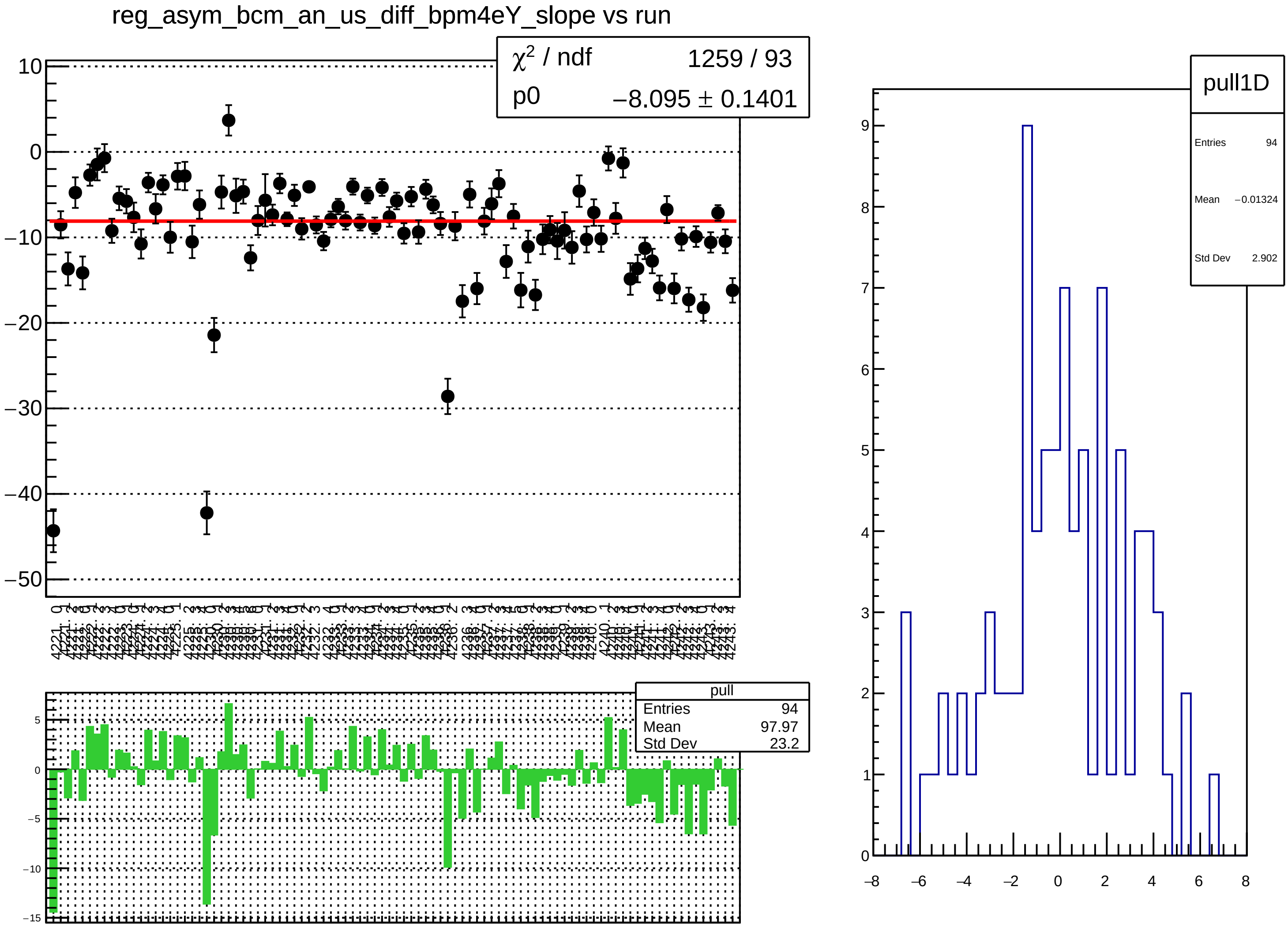
reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ^2 / ndf 465.6 / 93
p0 1.22 ± 0.101
pull
Entries 94
Mean 95.35
Std Dev 51.59
pull1D
Entries 94
Mean −0.1709
Std Dev 2.219



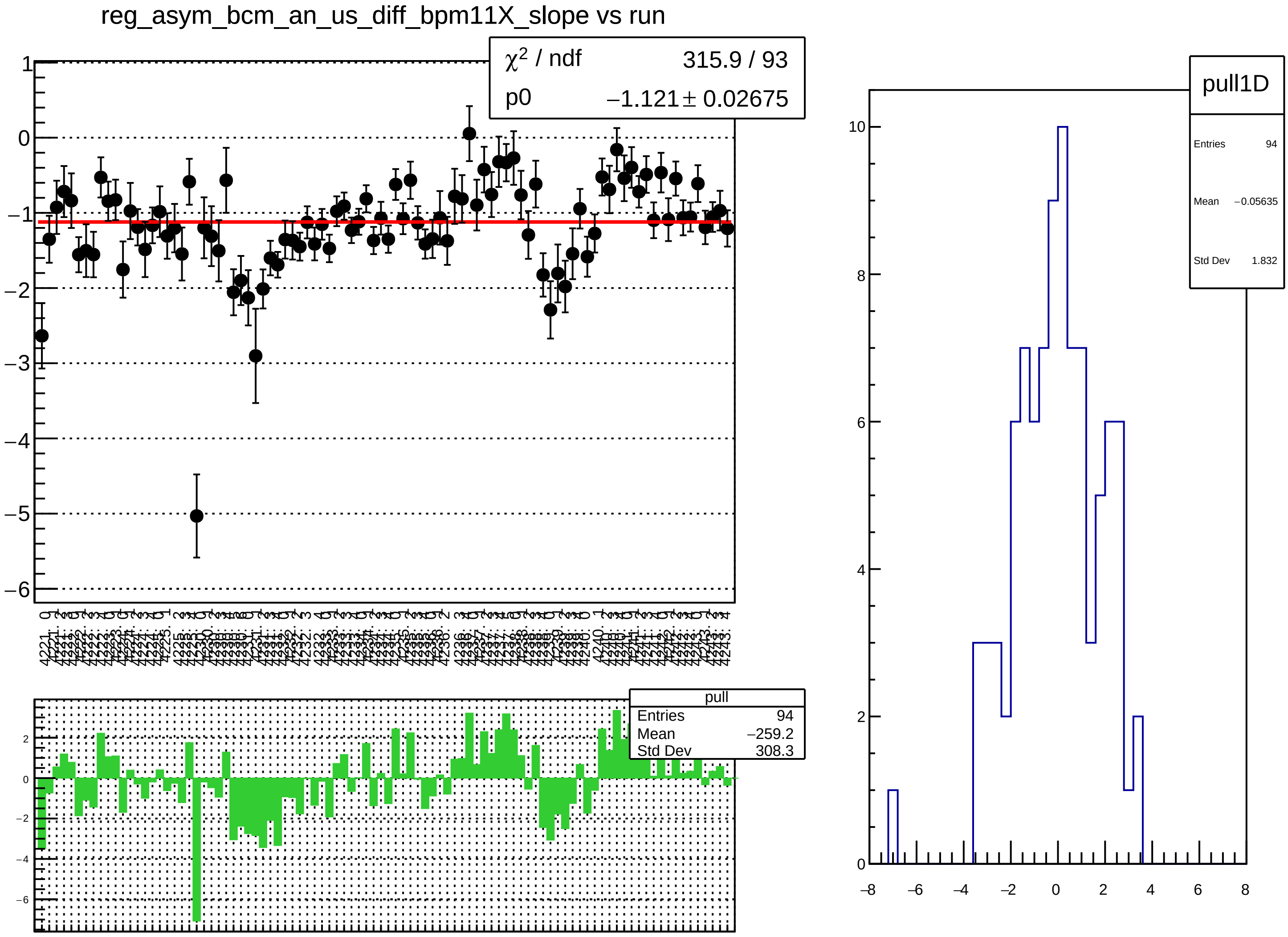
reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ^2 / ndf 1219 / 93
p0 4.585 ± 0.08478
pull
Entries 94
Mean 91.06
Std Dev 5.941
pull1D
Entries 94
Mean 0.07938
Std Dev 2.879



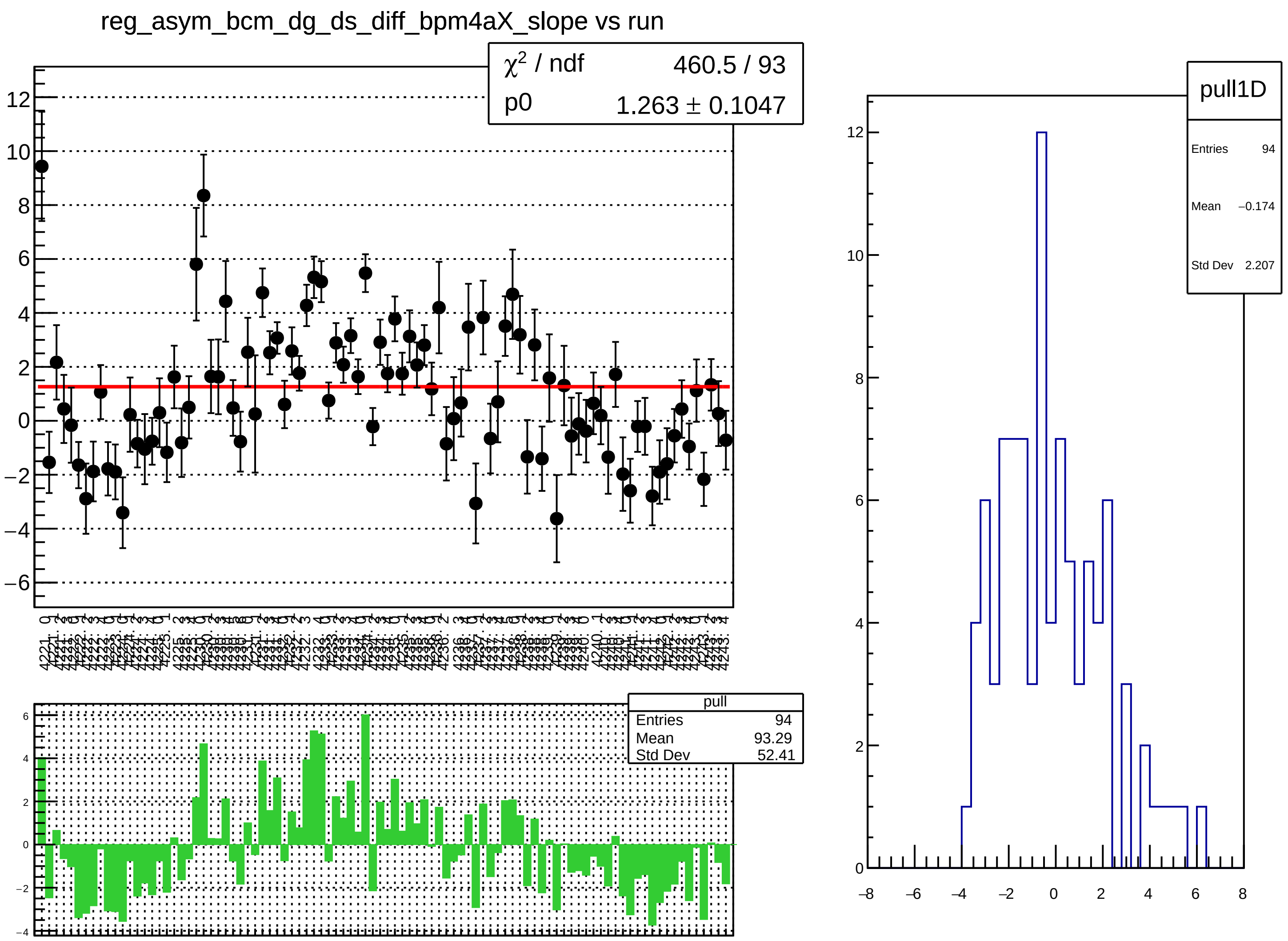
reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ^2 / ndf 4338 / 93
p0 −1.381 ± 0.02094
pull
Entries 94
Mean 49.59
Std Dev 43.64
pull1D
Entries 94
Mean −2.008
Std Dev 4.647



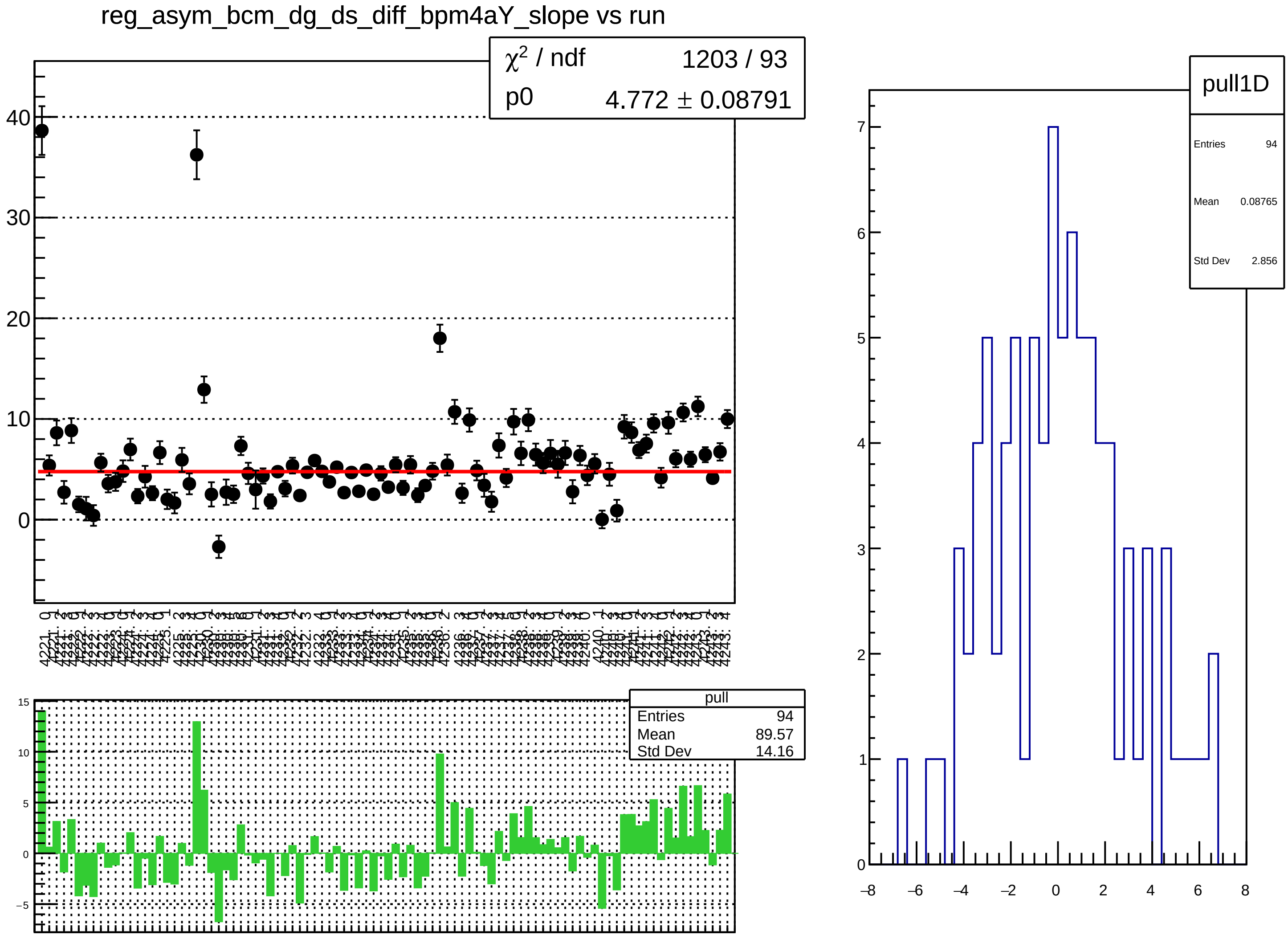
reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ^2 / ndf 1259 / 93
p0 −8.095 ± 0.1401
pull
Entries 94
Mean 97.97
Std Dev 23.2
pull1D
Entries 94
Mean −0.01324
Std Dev 2.902



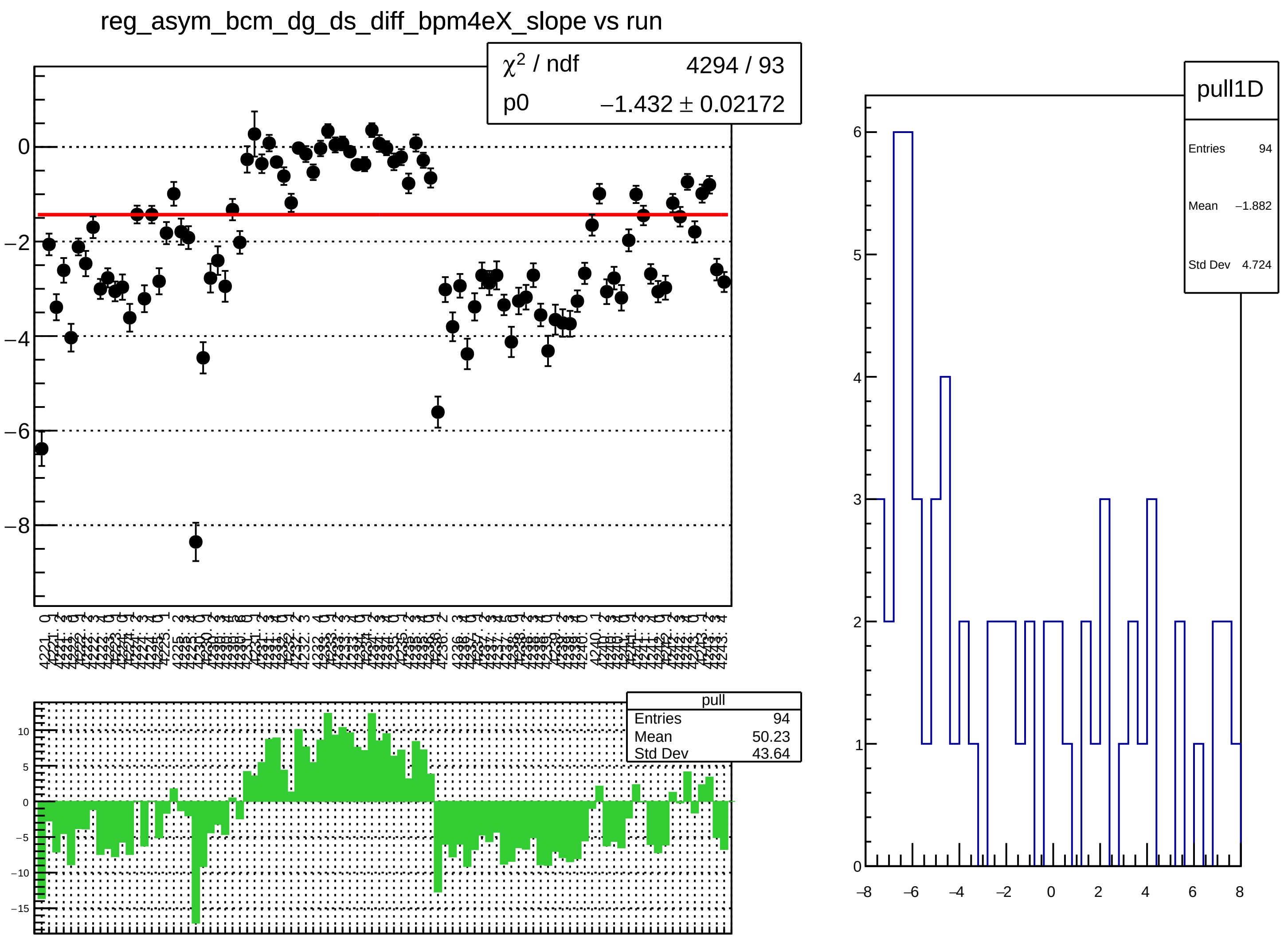
reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ^2 / ndf 315.9 / 93
p0 −1.121 ± 0.02675
pull
Entries 94
Mean −259.2
Std Dev 308.3
pull1D
Entries 94
Mean −0.05635
Std Dev 1.832

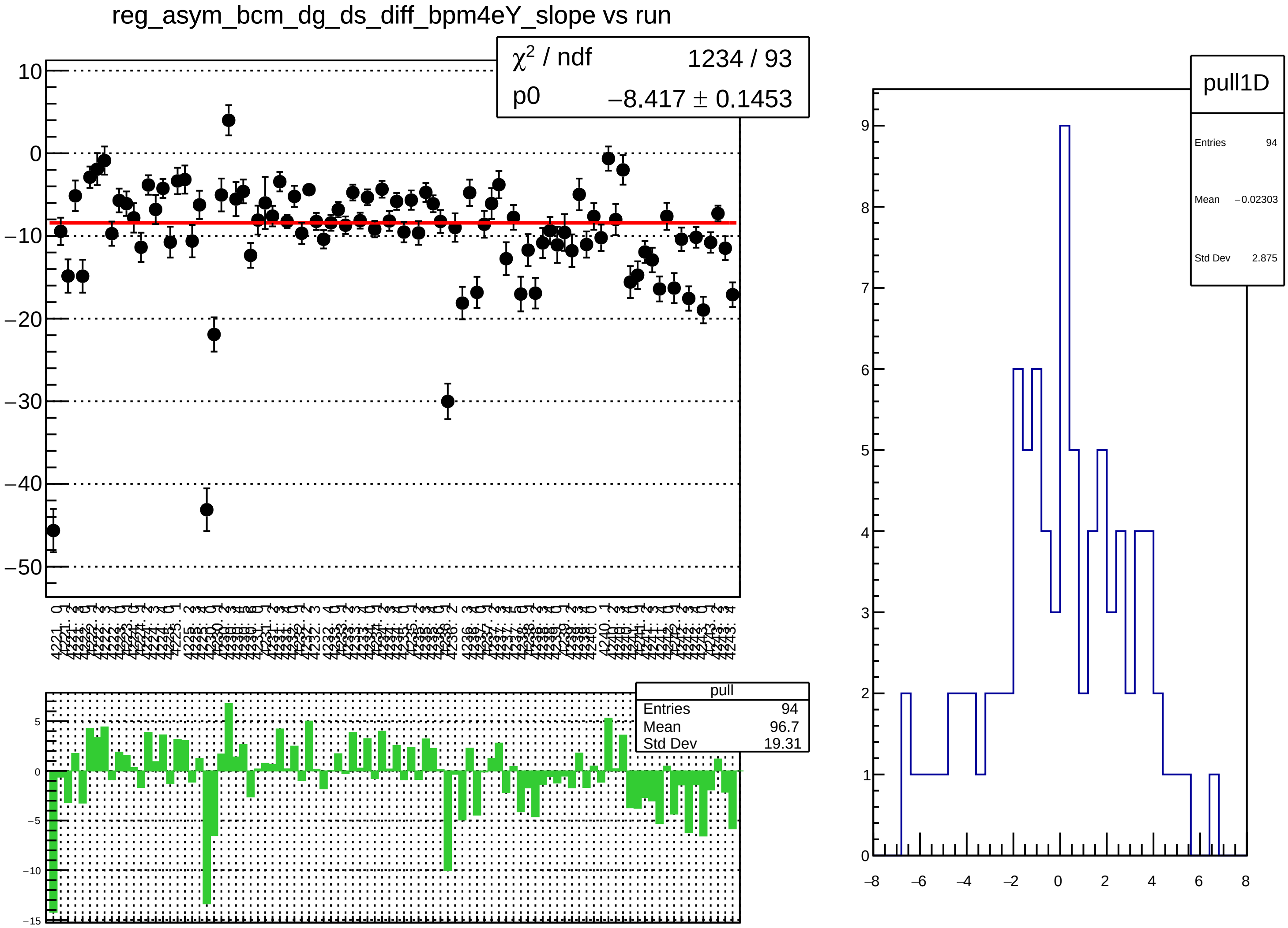


reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ^2 / ndf 460.5 / 93
p0 1.263 ± 0.1047
pull
Entries 94
Mean 93.29
Std Dev 52.41
pull1D
Entries 94
Mean −0.174
Std Dev 2.207

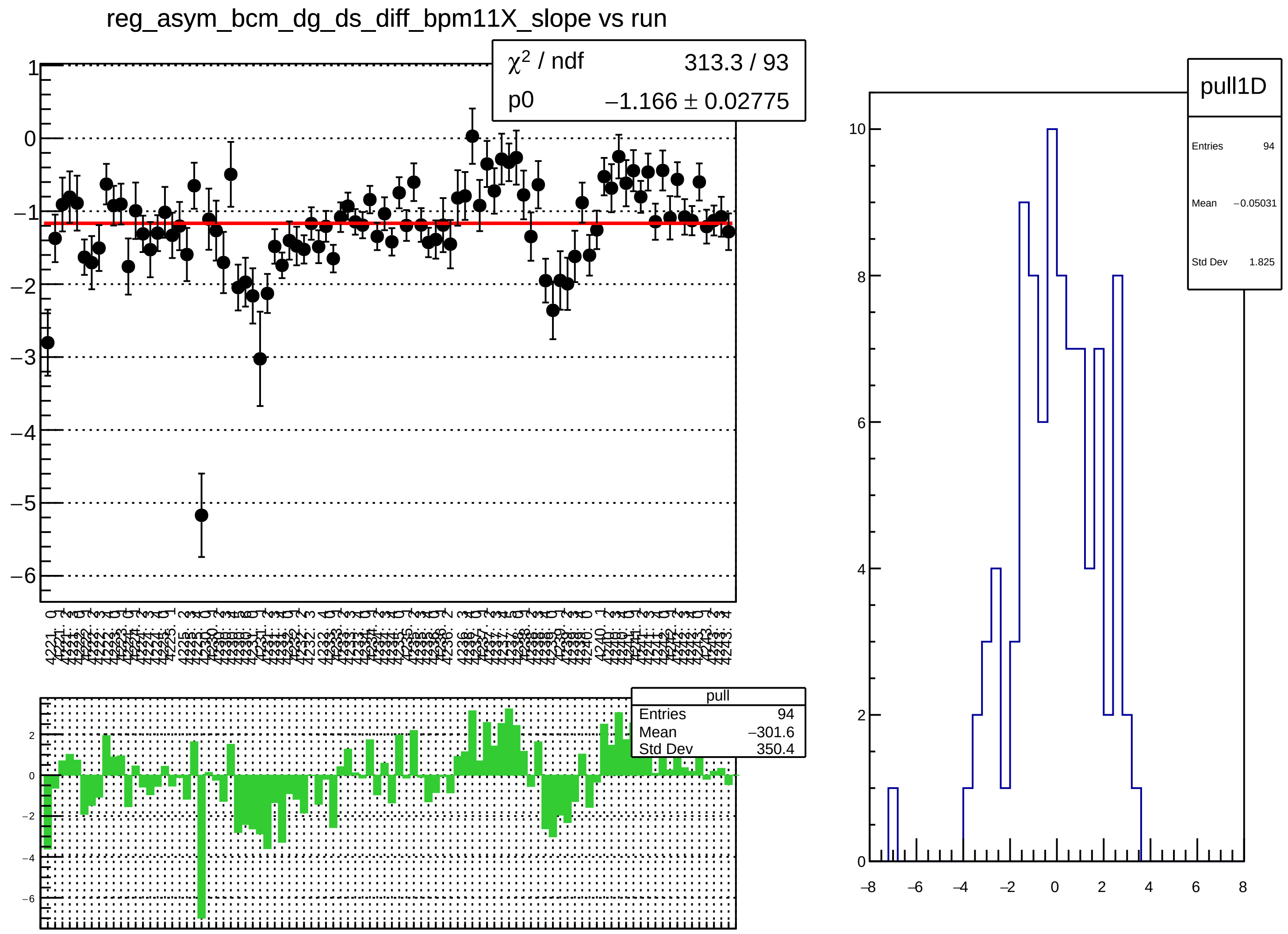


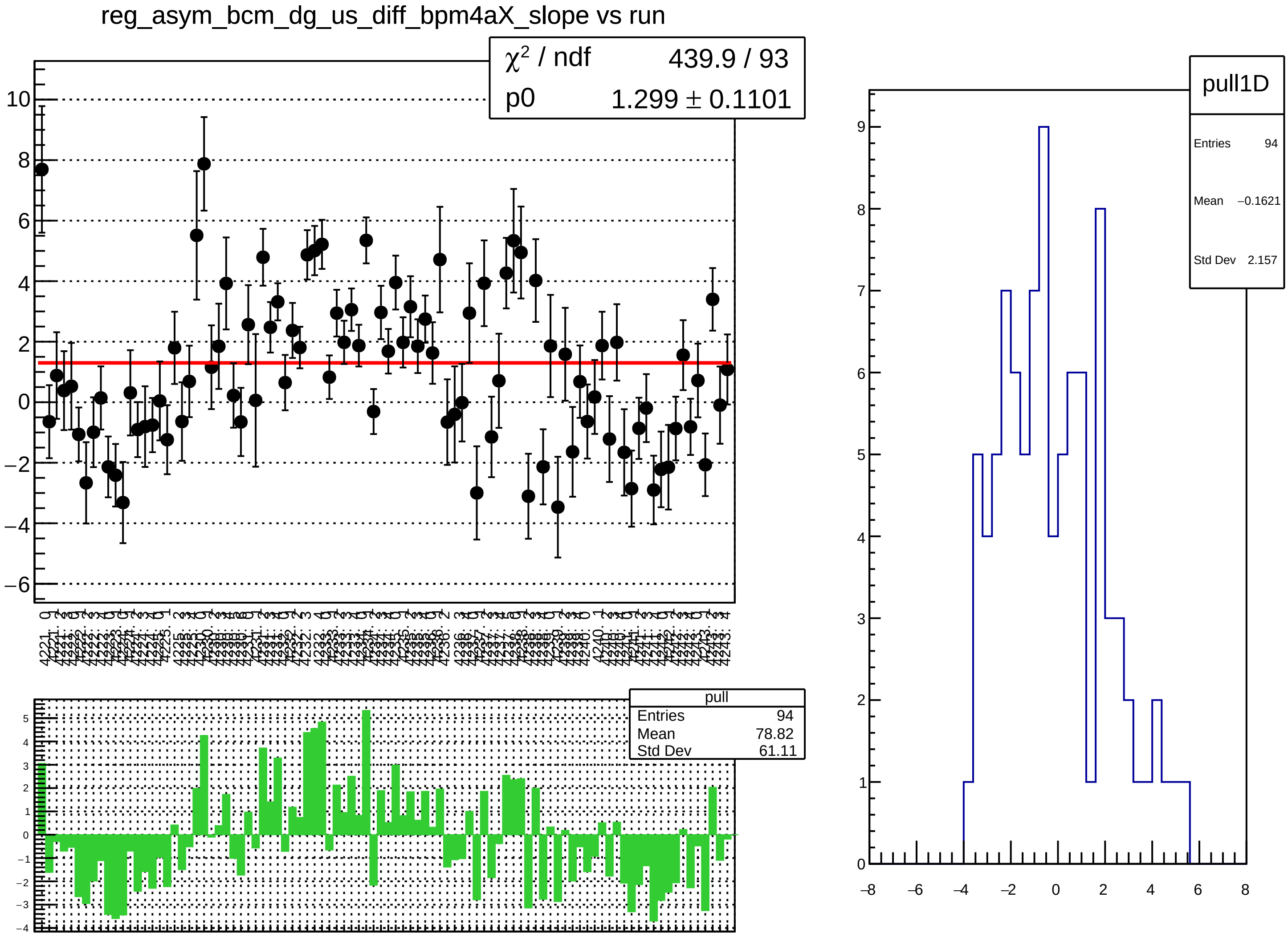
reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ^2 / ndf 1203 / 93
p0 4.772 ± 0.08791
pull
Entries 94
Mean 89.57
Std Dev 14.16
pull1D
Entries 94
Mean 0.08765
Std Dev 2.856


reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ2 / ndf 4294 / 93
p0 −1.432 ± 0.02172
pull
Entries 94
Mean 50.23
Std Dev 43.64
pull1D
Entries 94
Mean −1.882
Std Dev 4.724

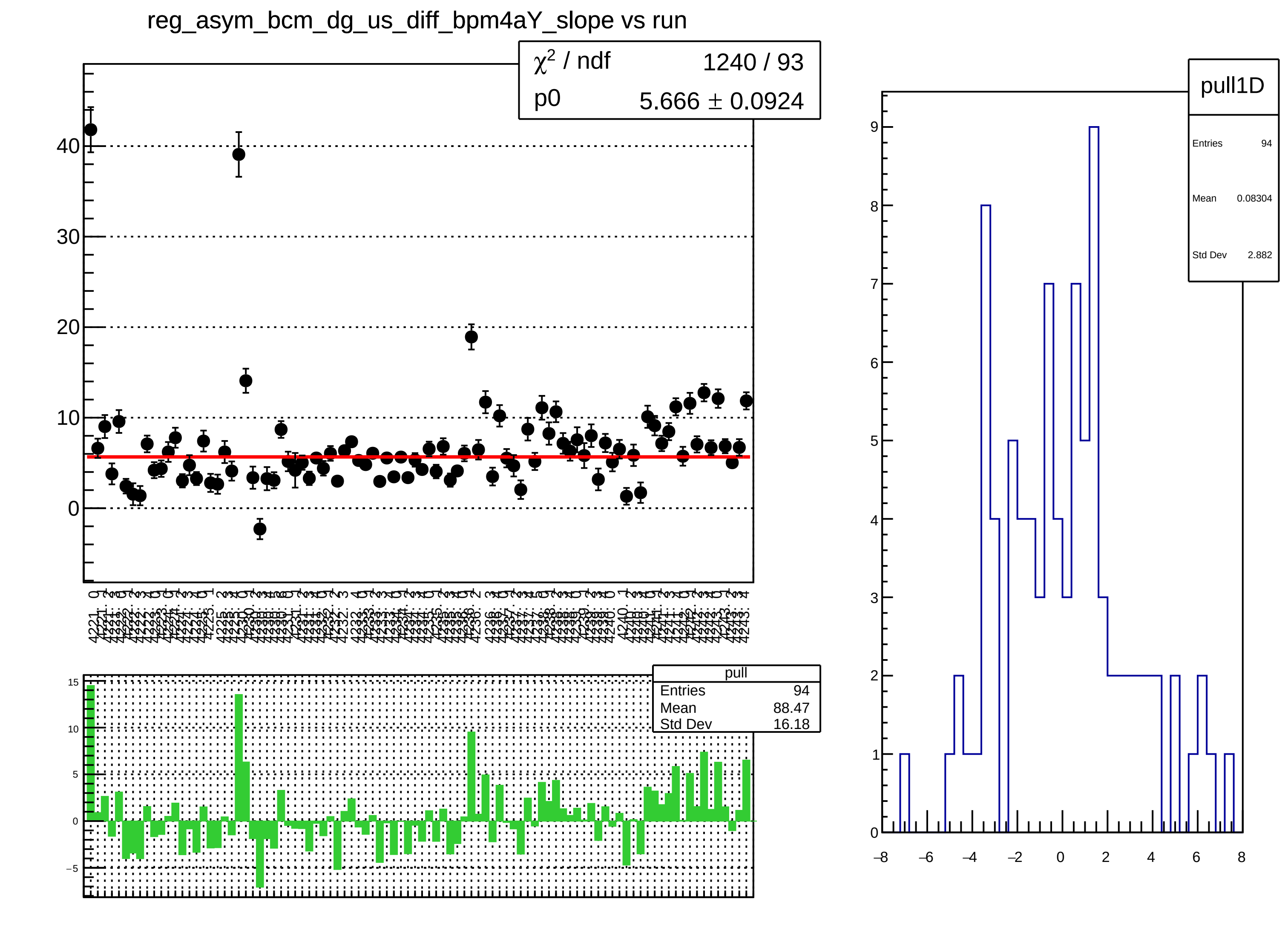


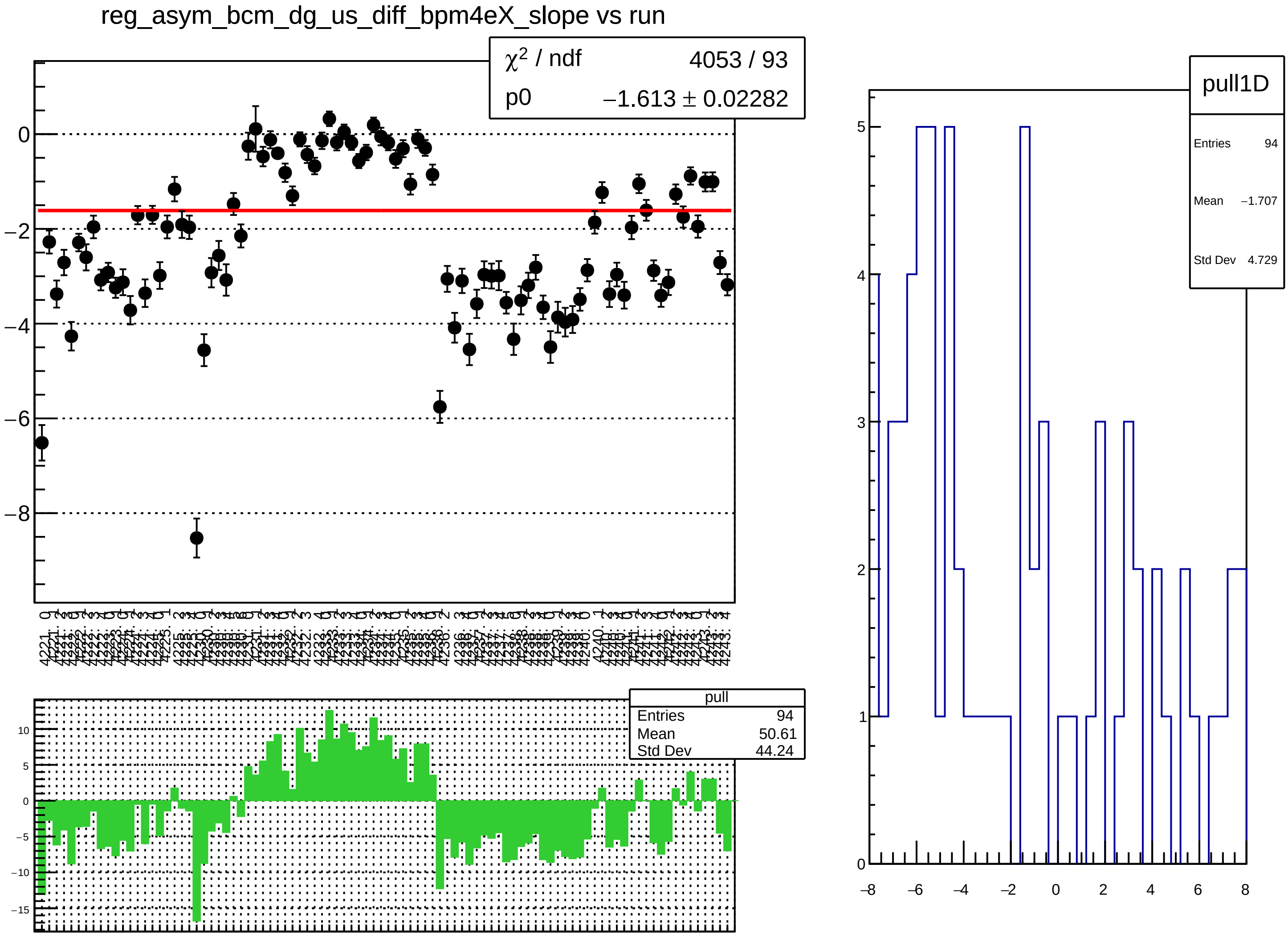
reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ^2 / ndf 1234 / 93
p0 −8.417 ± 0.1453
pull
Entries 94
Mean 96.7
Std Dev 19.31
pull1D
Entries 94
Mean −0.02303
Std Dev 2.875


reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ2 / ndf 313.3 / 93
p0 −1.166 ± 0.02775
pull
Entries 94
Mean −301.6
Std Dev 350.4
pull1D
Entries 94
Mean −0.05031
Std Dev 1.825

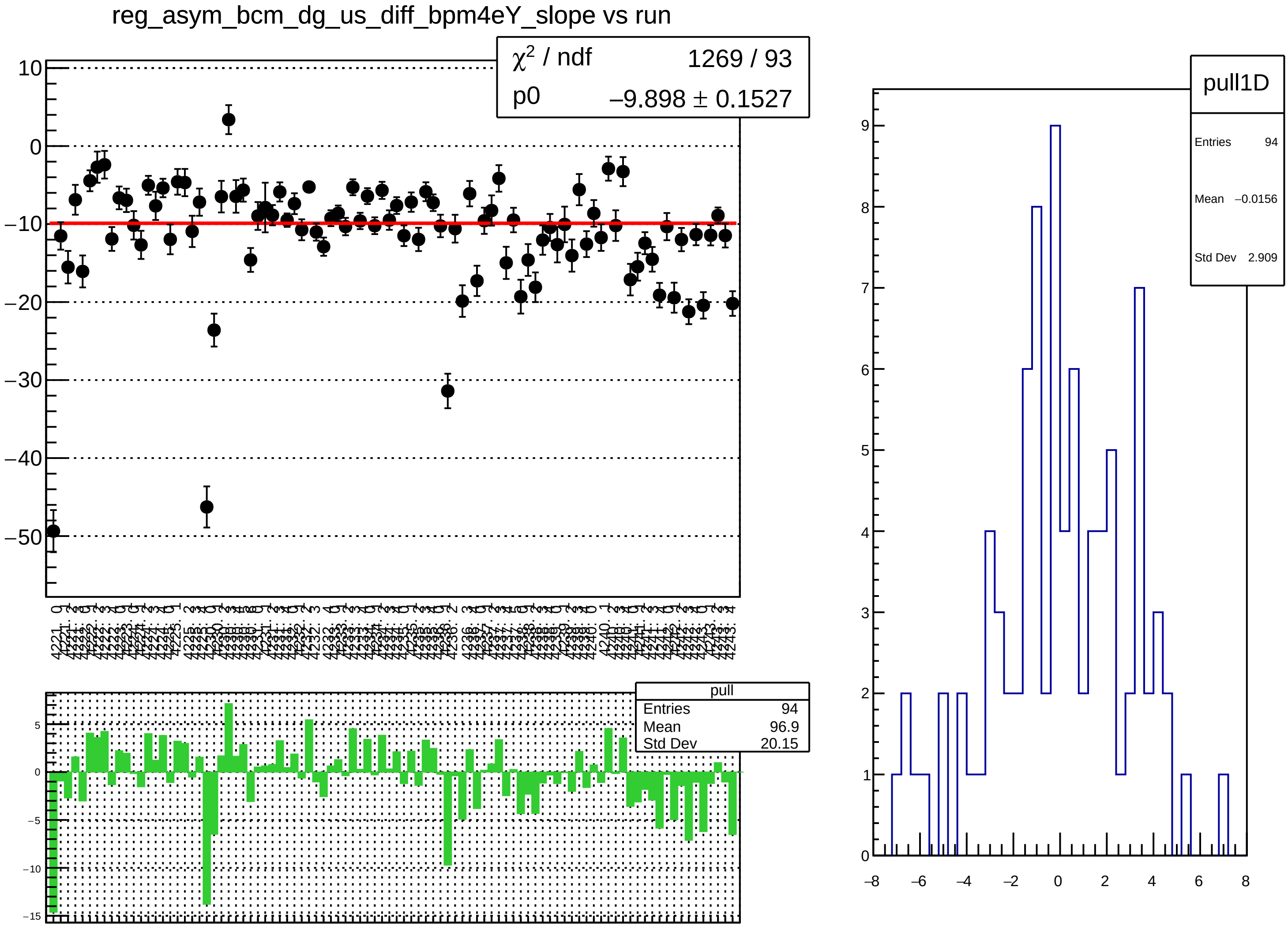


reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ^2 / ndf 439.9 / 93
p0 1.299 ± 0.1101
pull
Entries 94
Mean 78.82
Std Dev 61.11
pull1D
Entries 94
Mean −0.1621
Std Dev 2.157

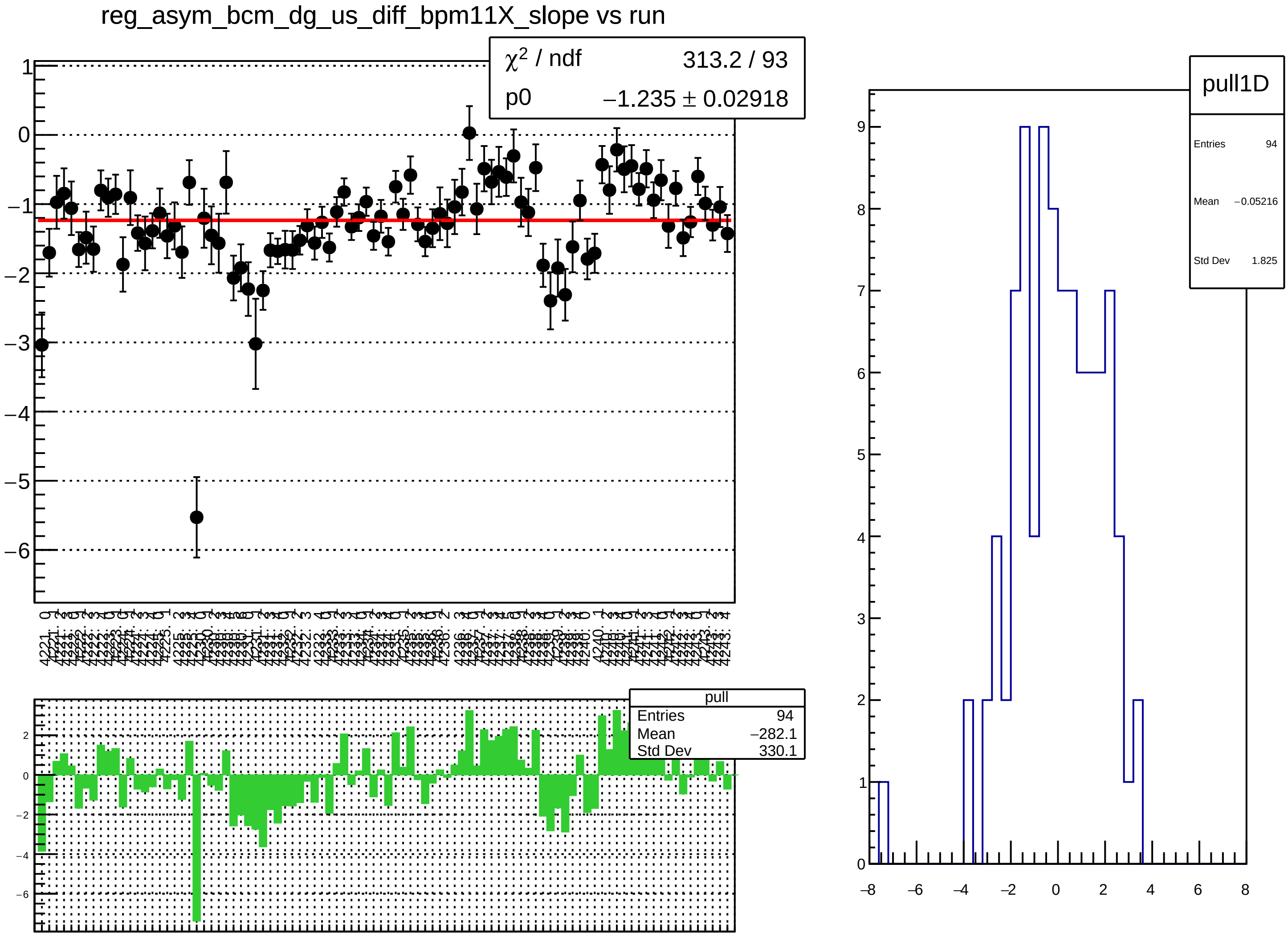

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ^2 / ndf 1240 / 93
p0 5.666 ± 0.0924
pull
Entries 94
Mean 88.47
Std Dev 16.18
pull1D
Entries 94
Mean 0.08304
Std Dev 2.882



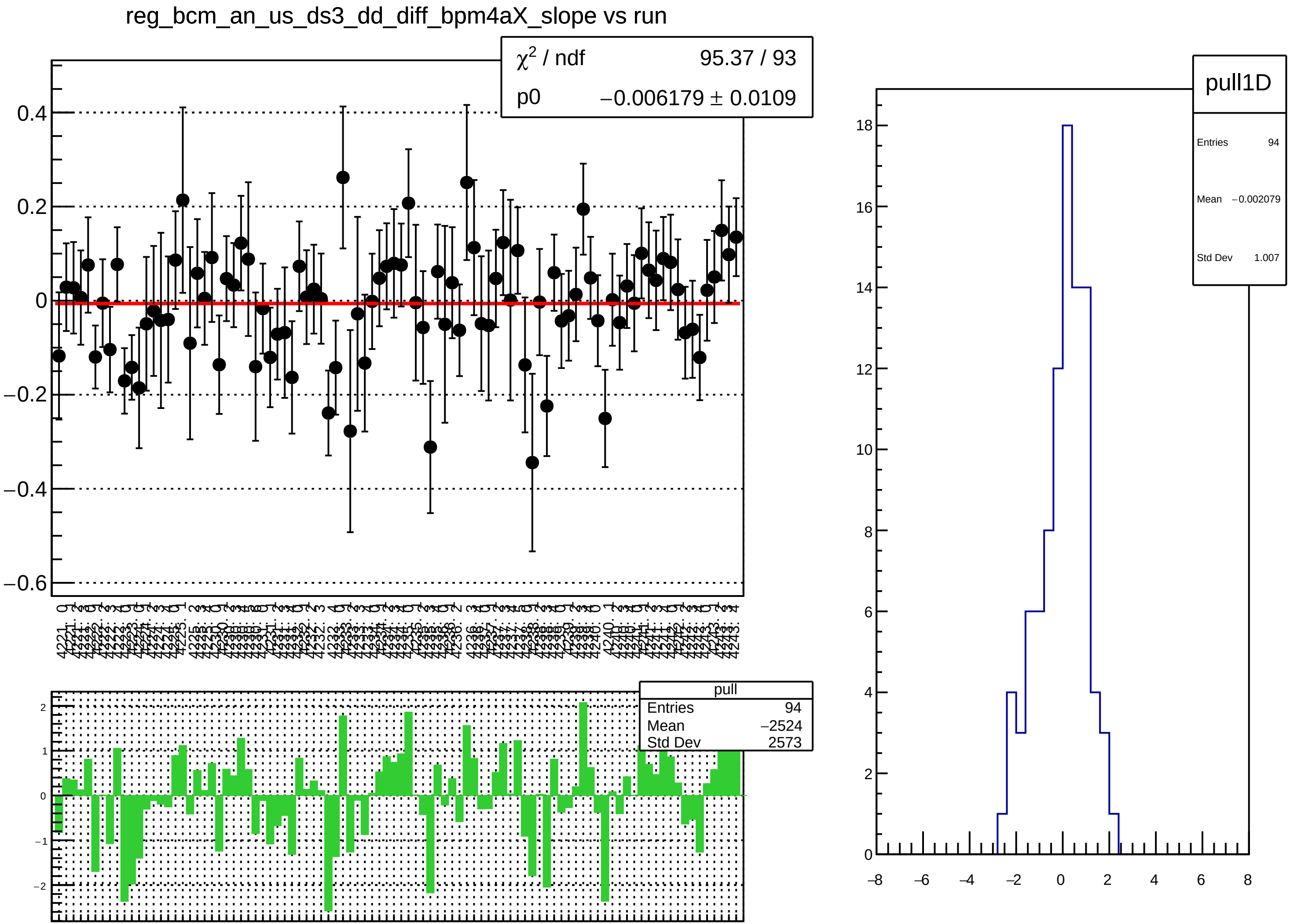
reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ^2 / ndf 4053 / 93
p0 −1.613 ± 0.02282
pull
Entries 94
Mean 50.61
Std Dev 44.24
pull1D
Entries 94
Mean −1.707
Std Dev 4.729



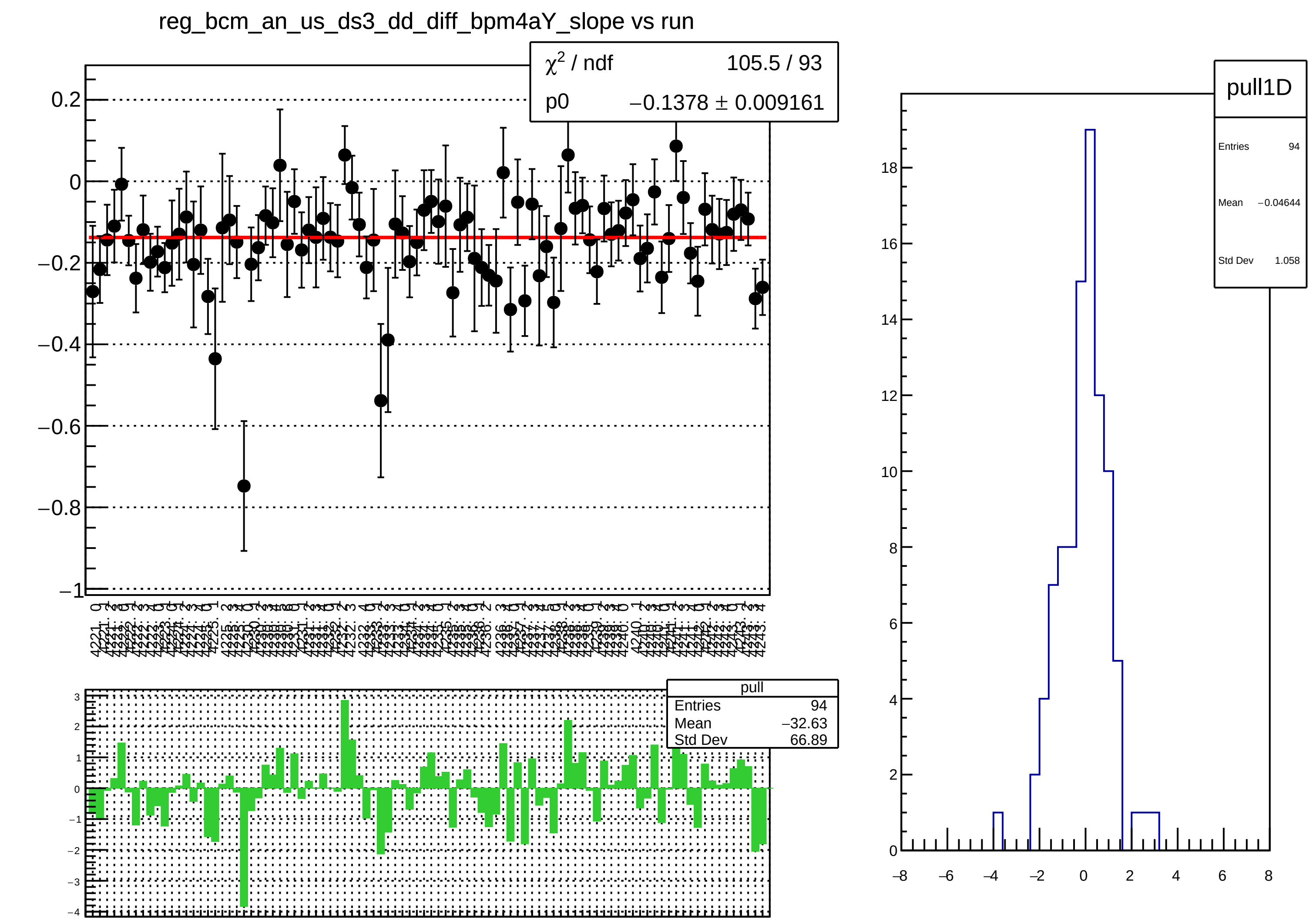
reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ^2 / ndf 1269 / 93
p0 −9.898 ± 0.1527
pull
Entries 94
Mean 96.9
Std Dev 20.15
pull1D
Entries 94
Mean −0.0156
Std Dev 2.909

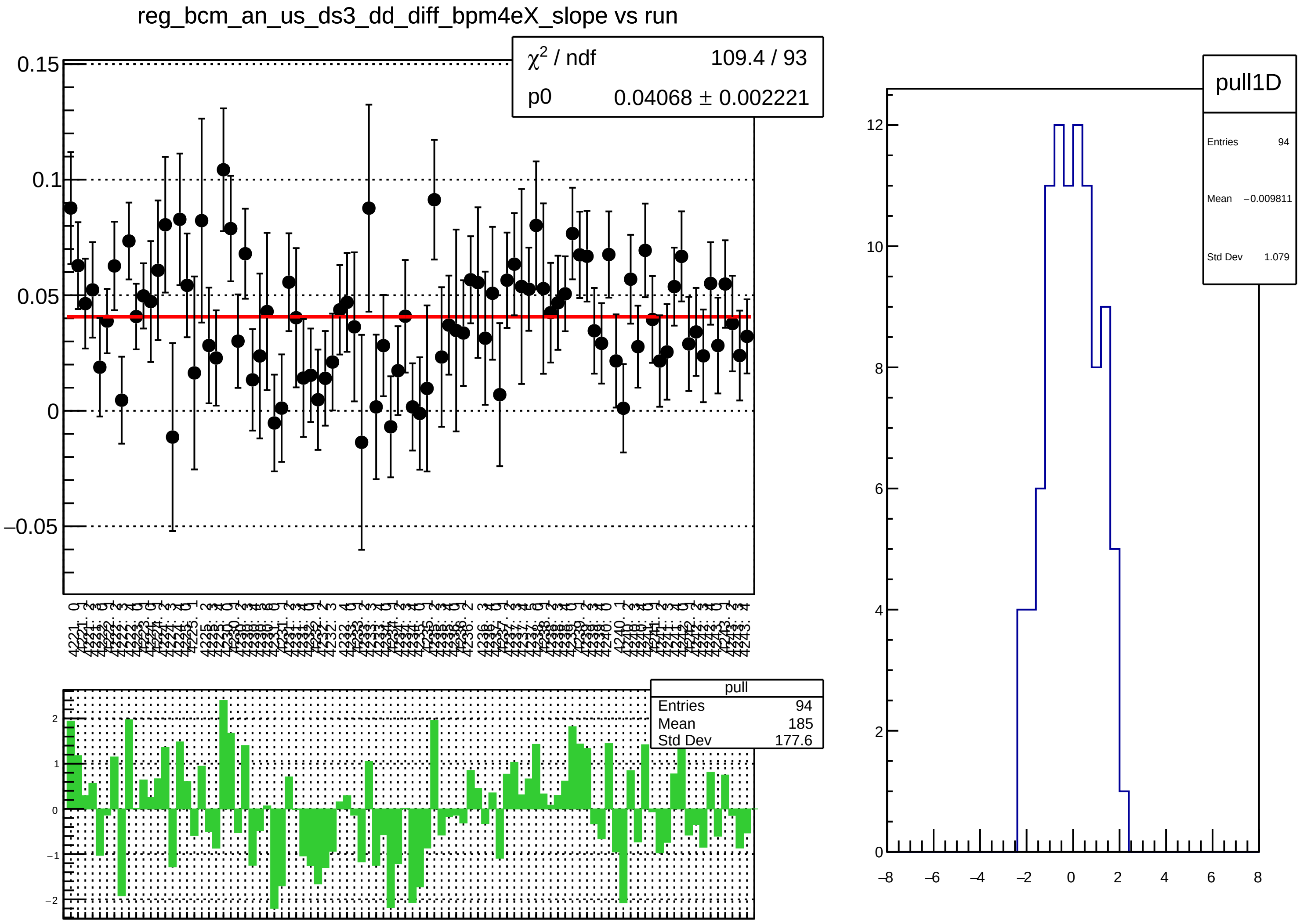


reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ^2 / ndf 313.2 / 93
p0 −1.235 ± 0.02918
pull
Entries 94
Mean −282.1
Std Dev 330.1
pull1D
Entries 94
Mean −0.05216
Std Dev 1.825

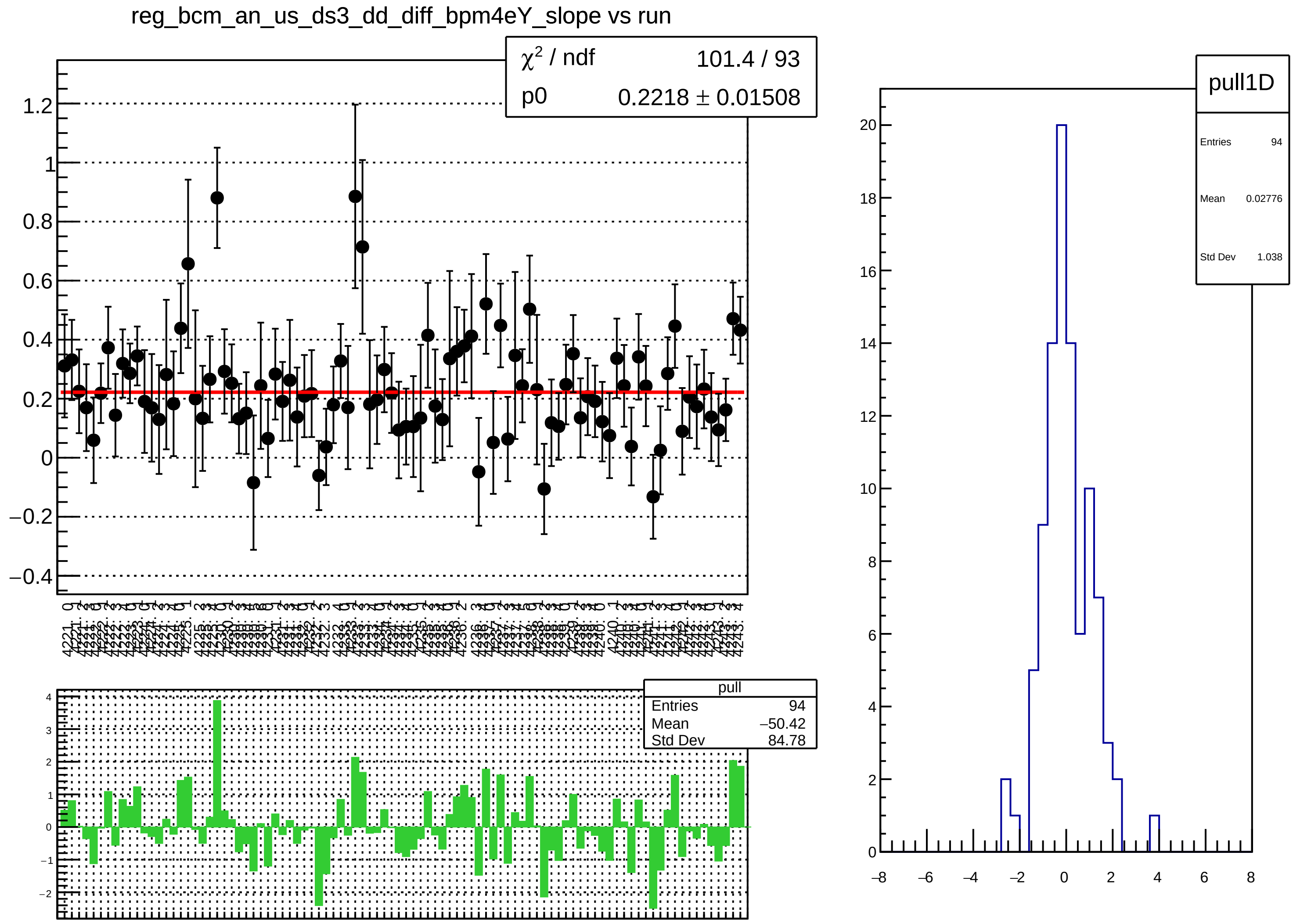


reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ2 / ndf 95.37 / 93
p0 −0.006179 ± 0.0109
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean −2524
Std Dev 2573
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.002079
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

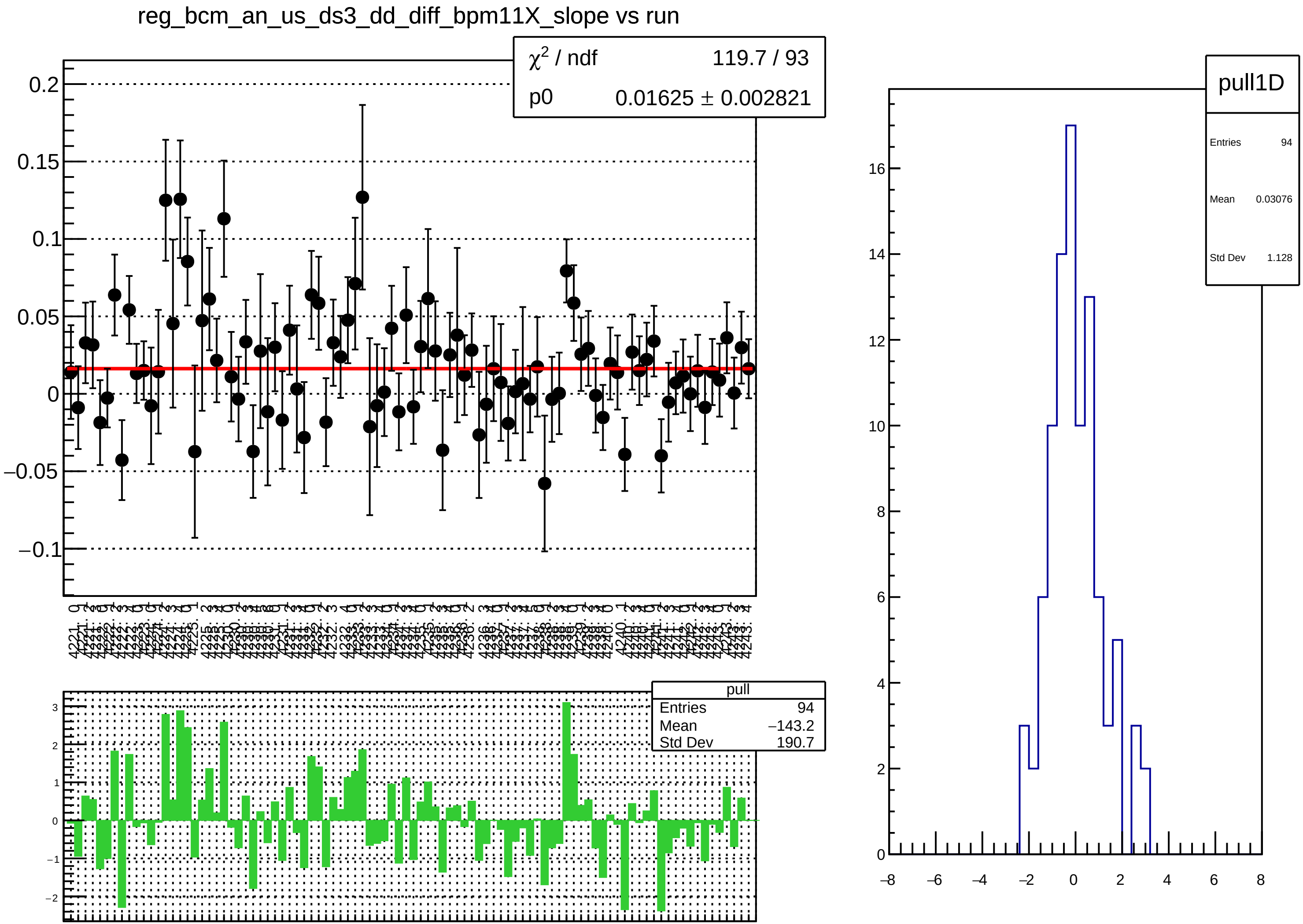

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 105.5 / 93
p0 −0.1378 ± 0.009161
pull
Entries 94
Mean −32.63
Std Dev 66.89
pull1D
Entries 94
Mean −0.04644
Std Dev 1.058



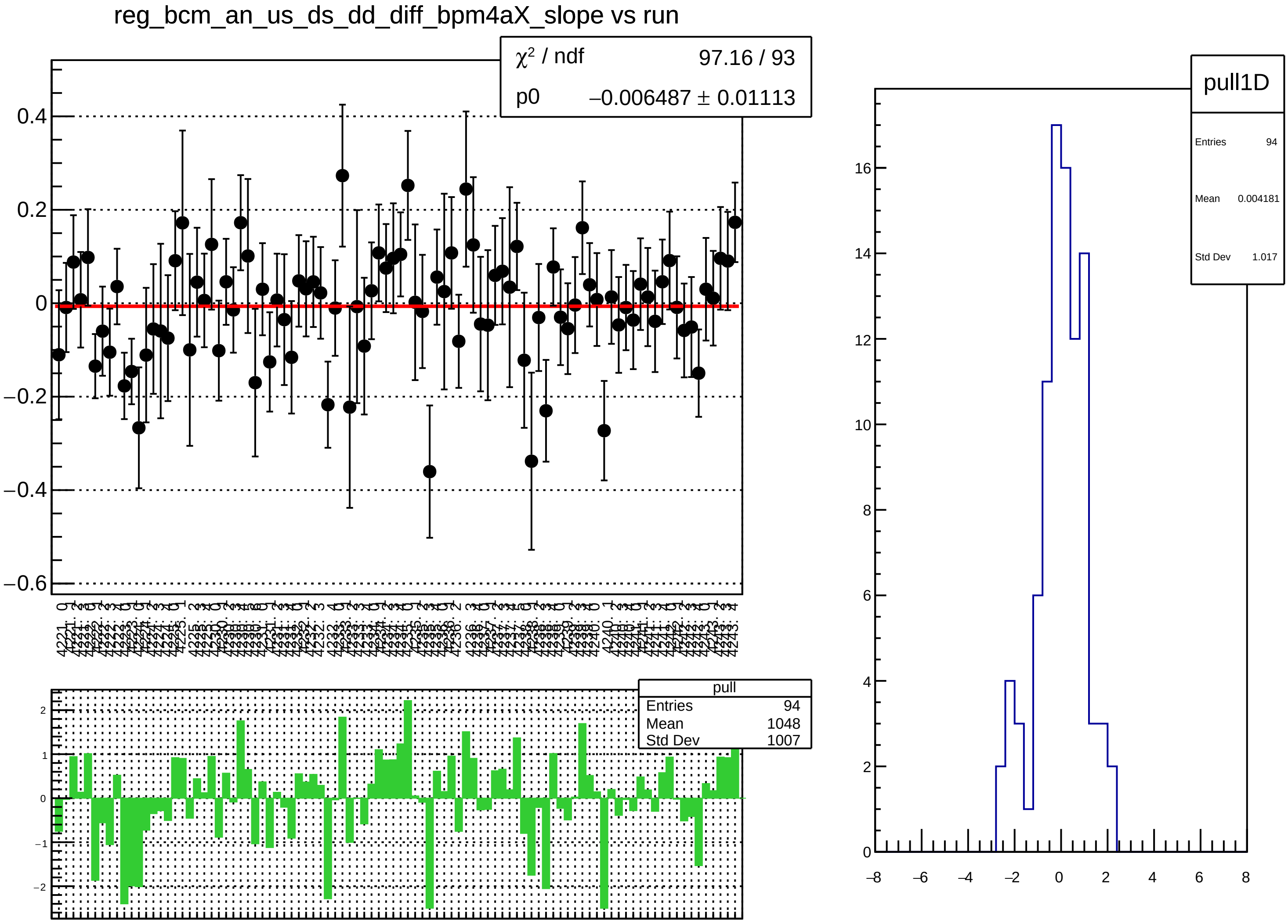
reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 109.4 / 93
p0 0.04068 ± 0.002221
pull
Entries 94
Mean 185
Std Dev 177.6
pull1D
Entries 94
Mean −0.009811
Std Dev 1.079



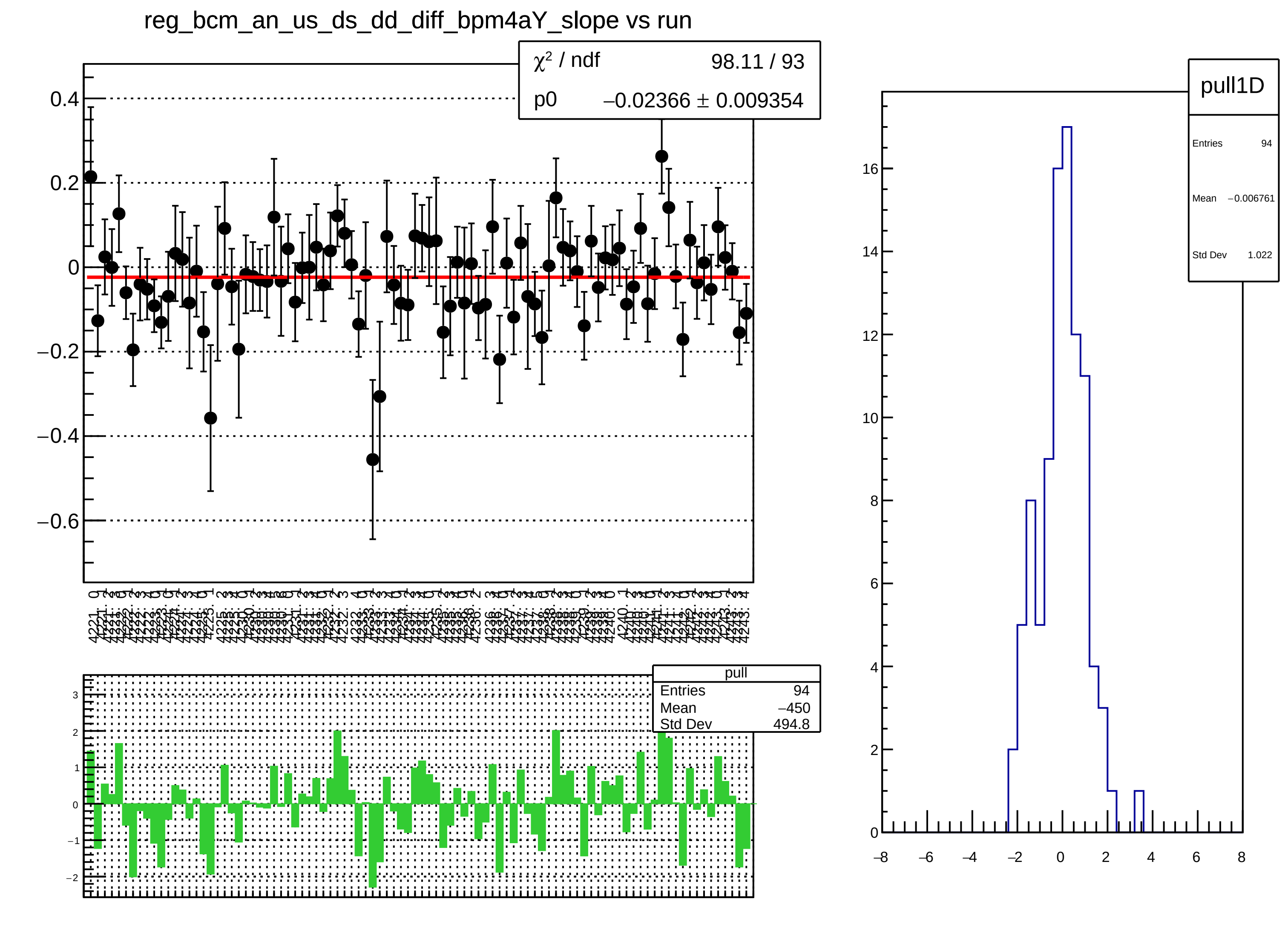
reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 101.4 / 93
p0 0.2218 ± 0.01508
pull
Entries 94
Mean −50.42
Std Dev 84.78
pull1D
Entries 94
Mean 0.02776
Std Dev 1.038



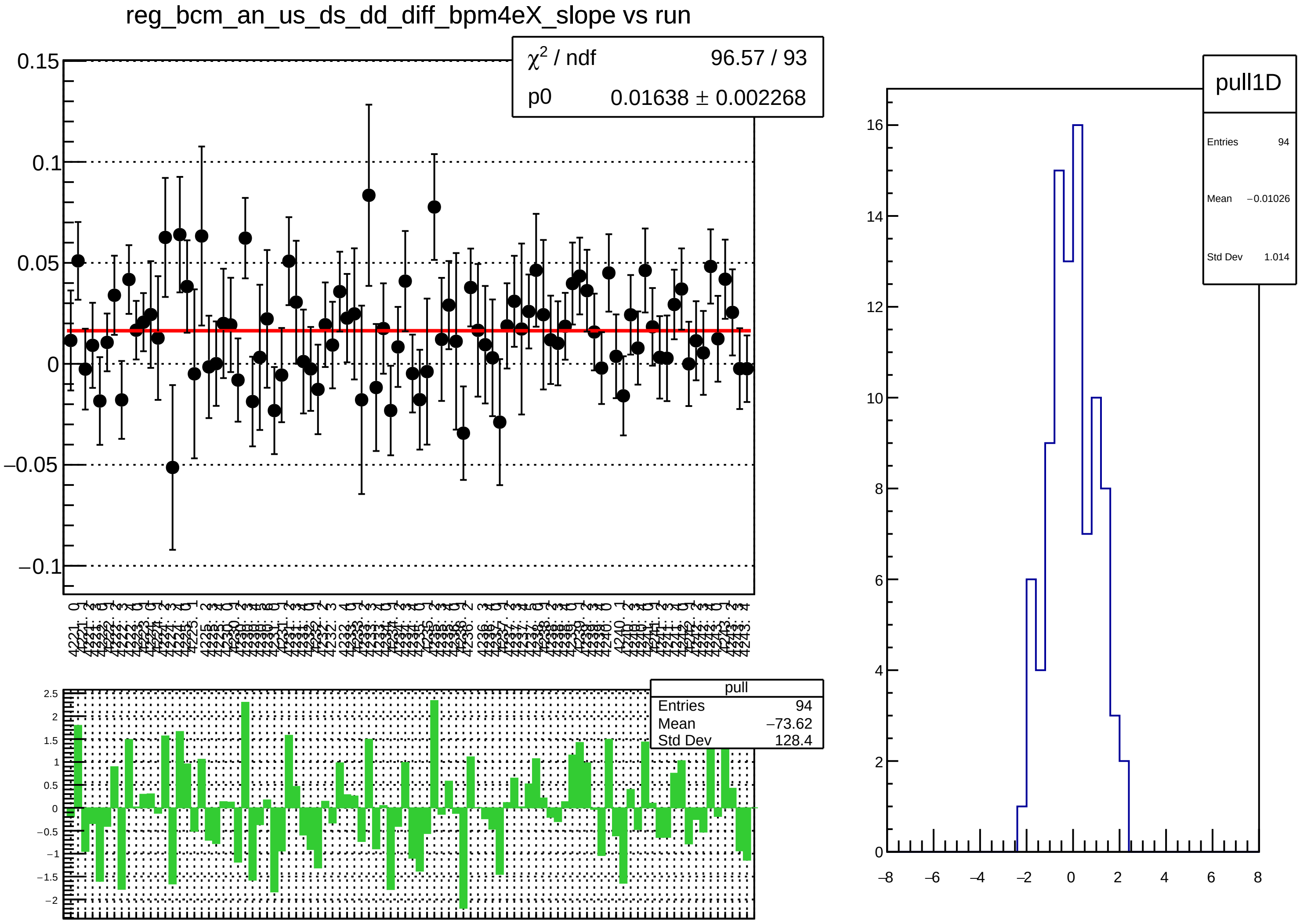
reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ^2 / ndf 119.7 / 93
p0 0.01625 ± 0.002821
pull
Entries 94
Mean −143.2
Std Dev 190.7
pull1D
Entries 94
Mean 0.03076
Std Dev 1.128



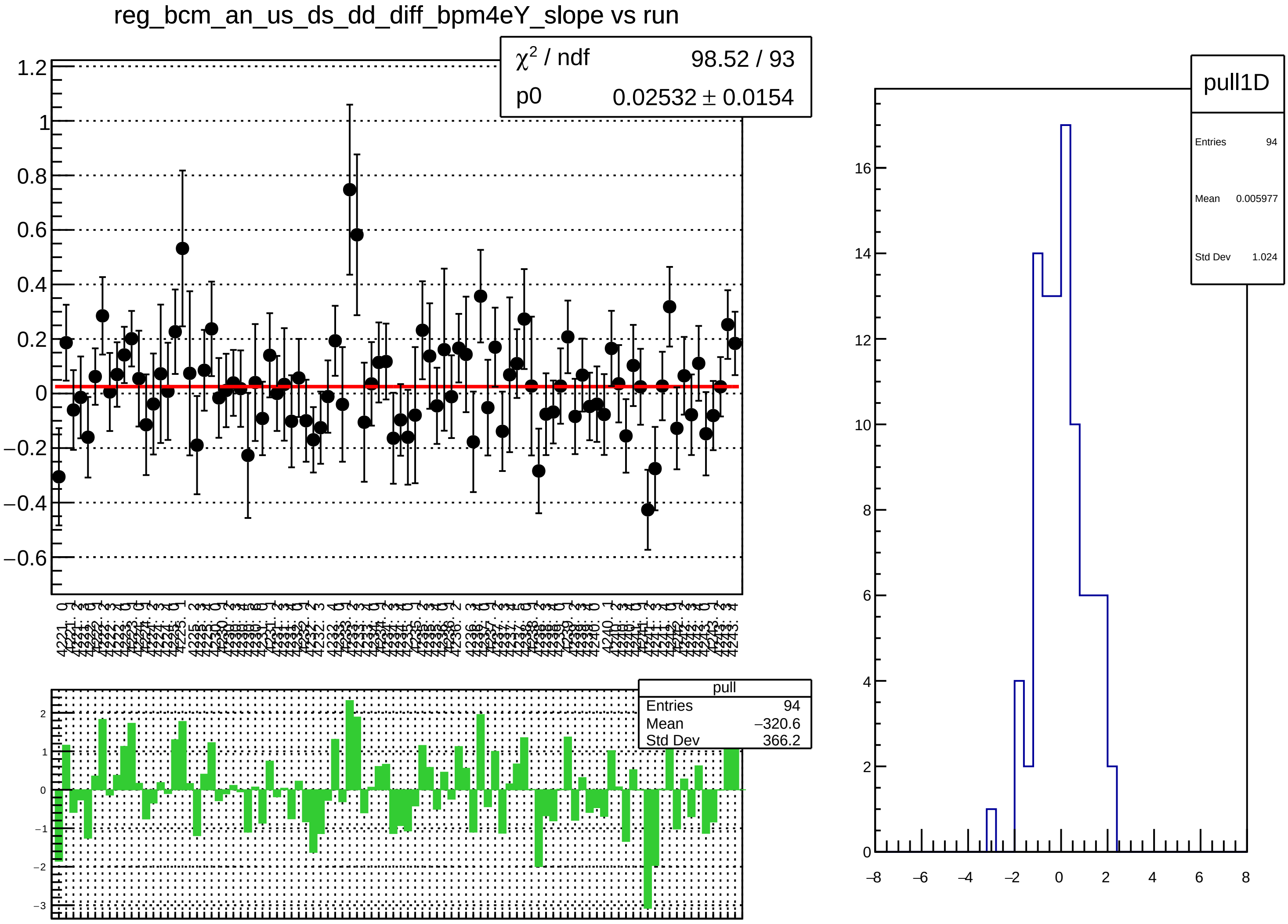
reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 97.16 / 93
p0 −0.006487 ± 0.01113
pull
Entries 94
Mean 1048
Std Dev 1007
pull1D
Entries 94
Mean 0.004181
Std Dev 1.017



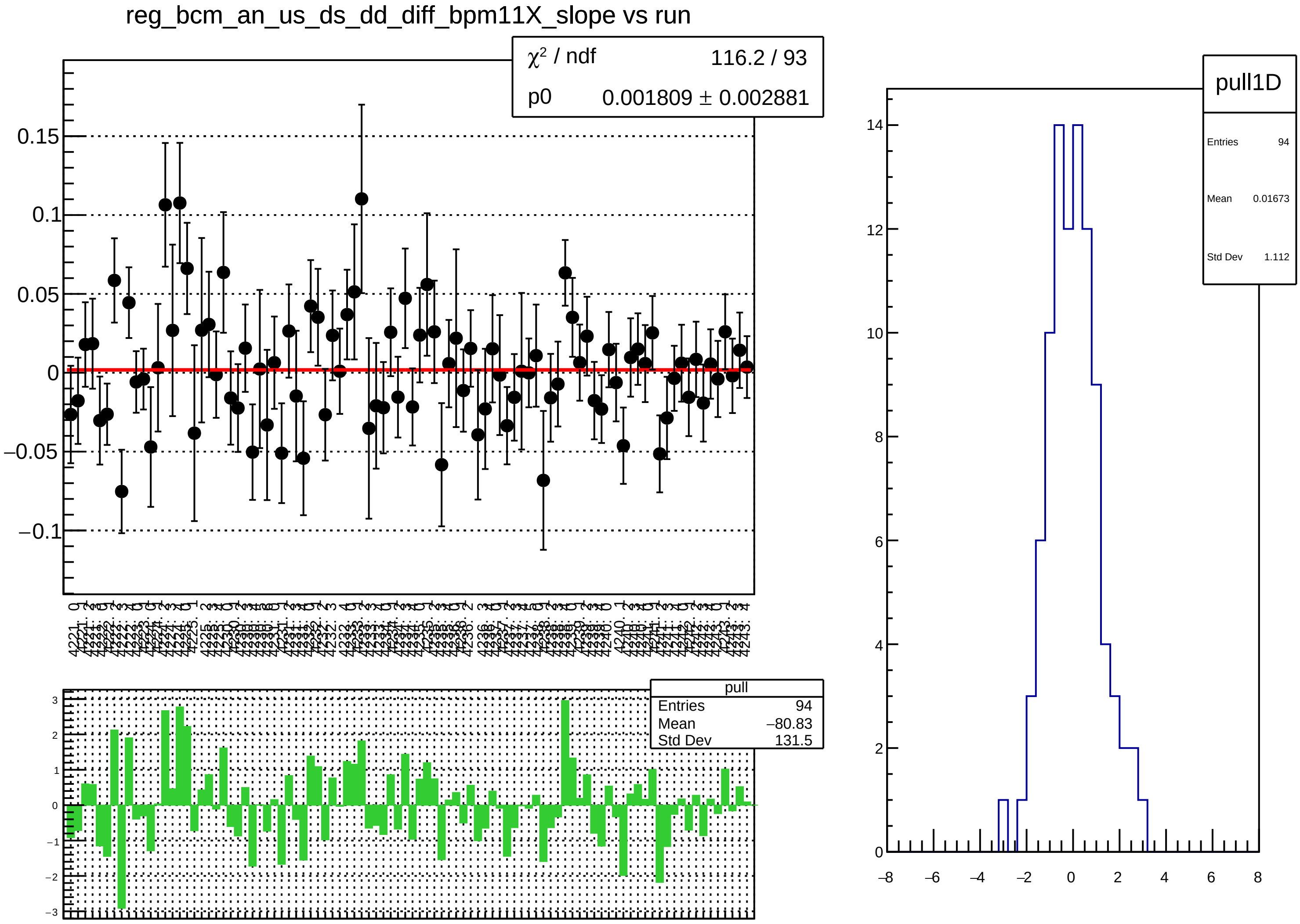
reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 98.11 / 93
p0 −0.02366 ± 0.009354
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean −450
Std Dev 494.8
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.006761
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



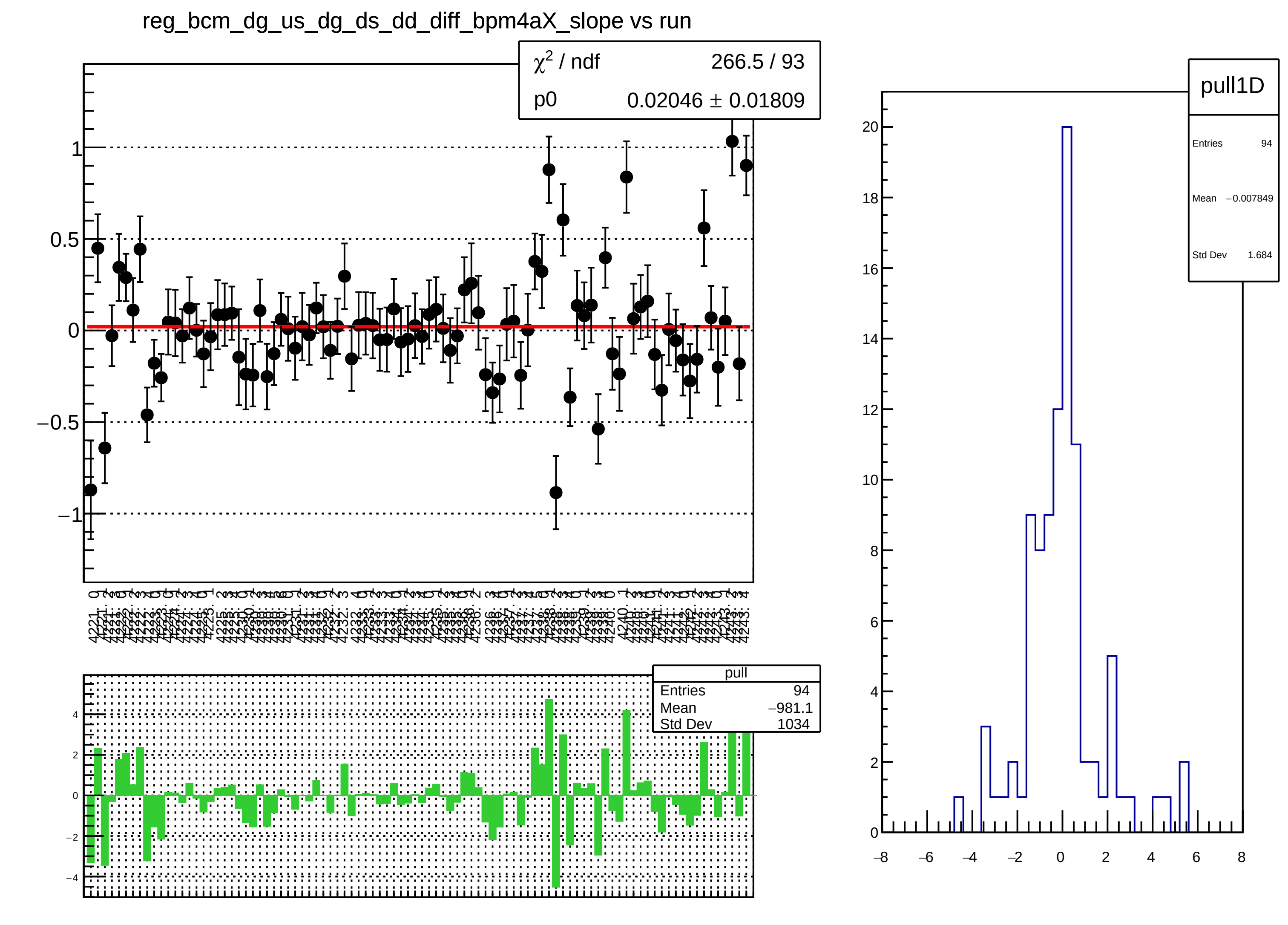
reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 96.57 / 93
p0 0.01638 ± 0.002268
pull
Entries 94
Mean −73.62
Std Dev 128.4
pull1D
Entries 94
Mean −0.01026
Std Dev 1.014



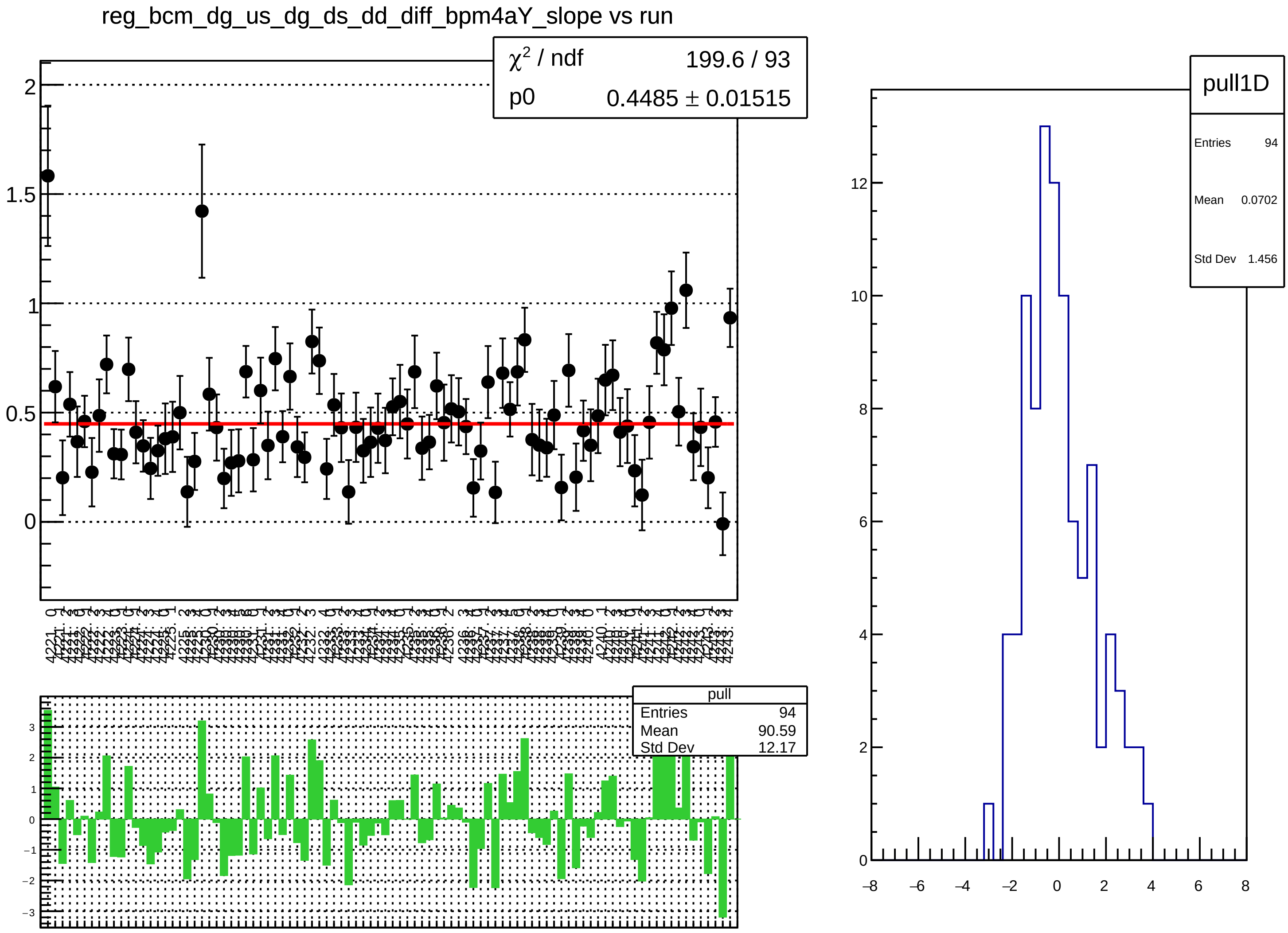
reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 98.52 / 93
p0 0.02532 ± 0.0154
pull
Entries 94
Mean −320.6
Std Dev 366.2
pull1D
Entries 94
Mean 0.005977
Std Dev 1.024



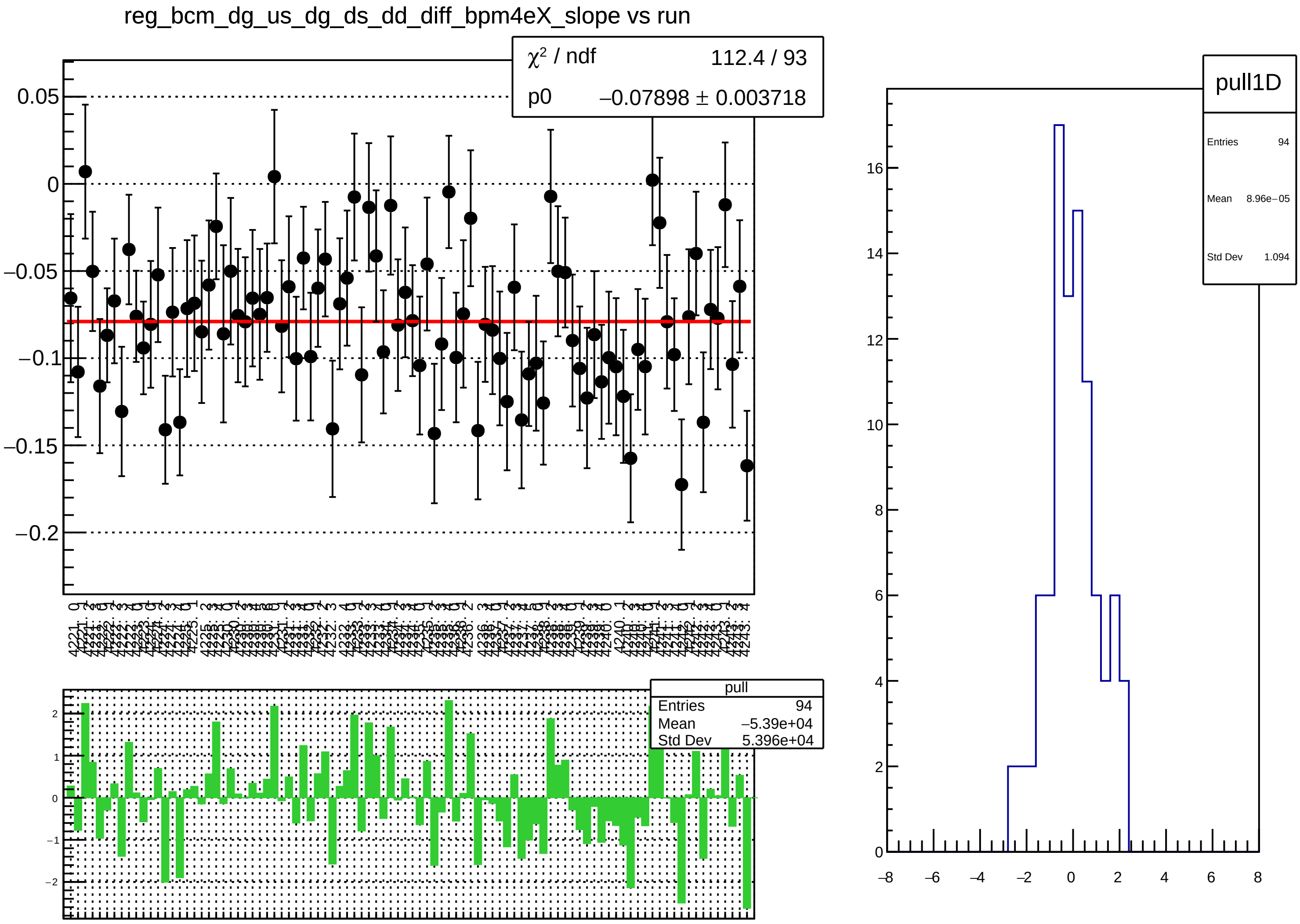
reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 116.2 / 93
p0 0.001809 ± 0.002881
pull
Entries 94
Mean −80.83
Std Dev 131.5
pull1D
Entries 94
Mean 0.01673
Std Dev 1.112



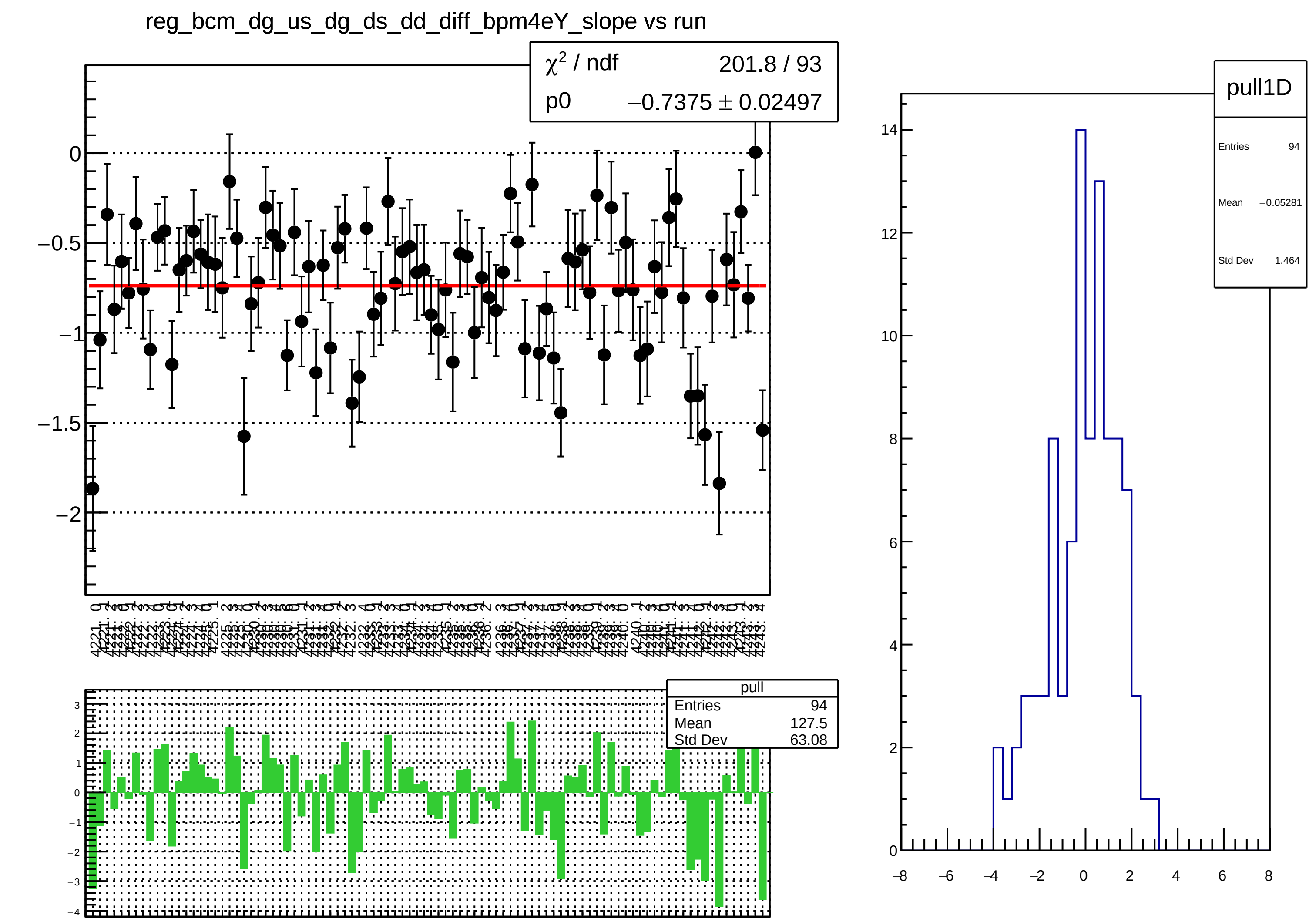
reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 266.5 / 93
p0 0.02046 ± 0.01809
pull
Entries 94
Mean −981.1
Std Dev 1034
pull1D
Entries 94
Mean −0.007849
Std Dev 1.684



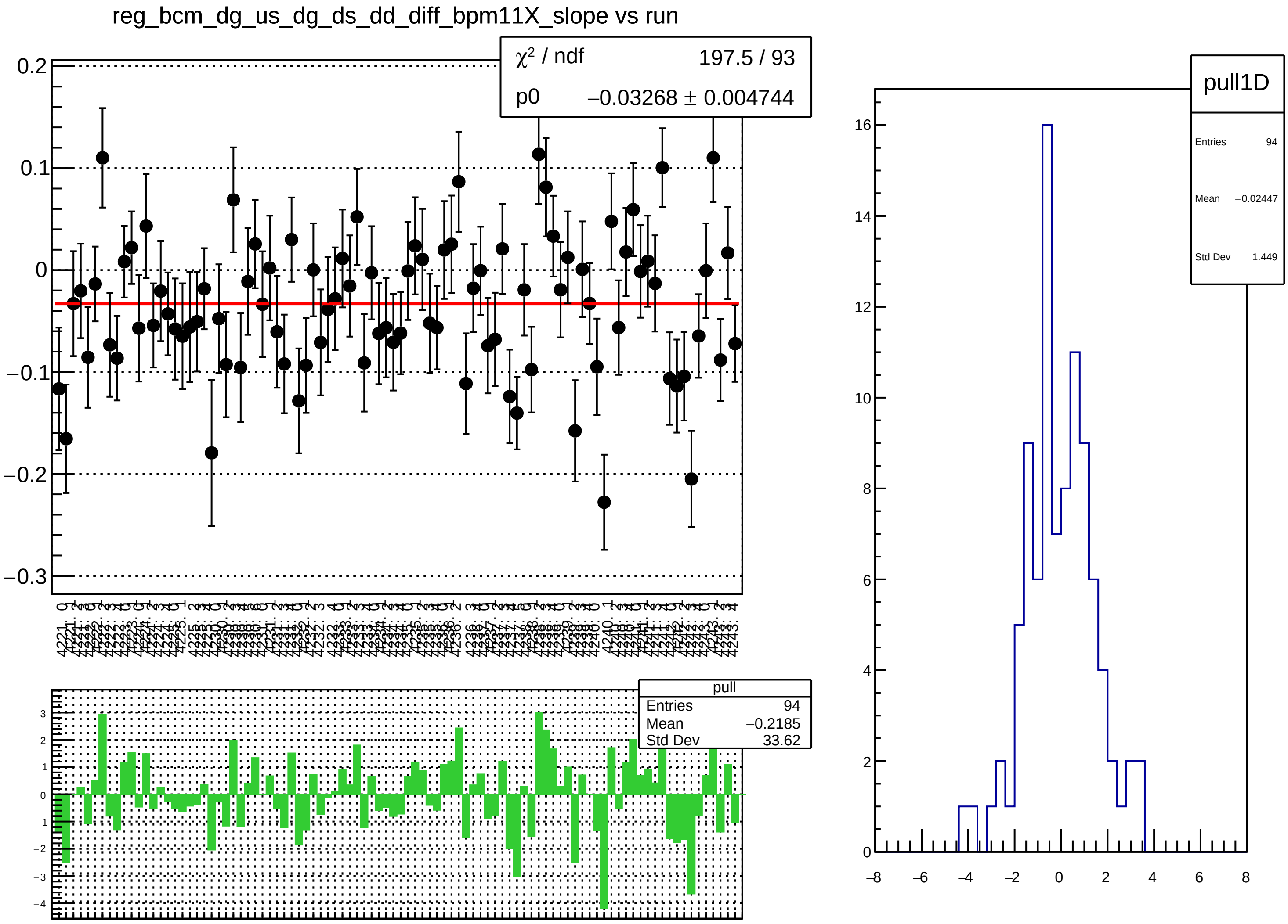
reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 199.6 / 93
p0 0.4485 ± 0.01515
pull
Entries 94
Mean 90.59
Std Dev 12.17
pull1D
Entries 94
Mean 0.0702
Std Dev 1.456



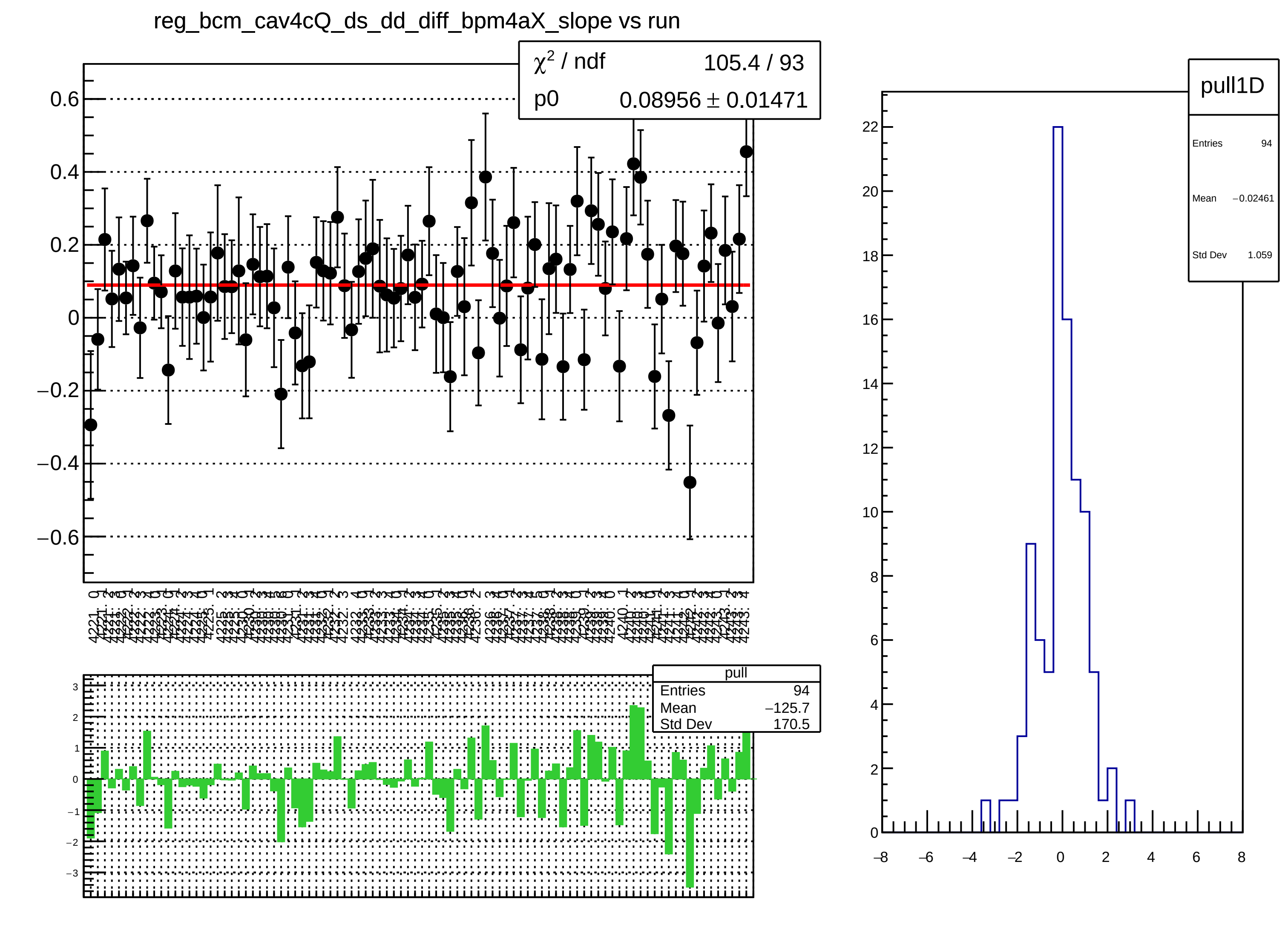
reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 112.4 / 93
p0 −0.07898 ± 0.003718
pull
Entries 94
Mean −5.39e+04
Std Dev 5.396e+04
pull1D
Entries 94
Mean 8.96e−05
Std Dev 1.094



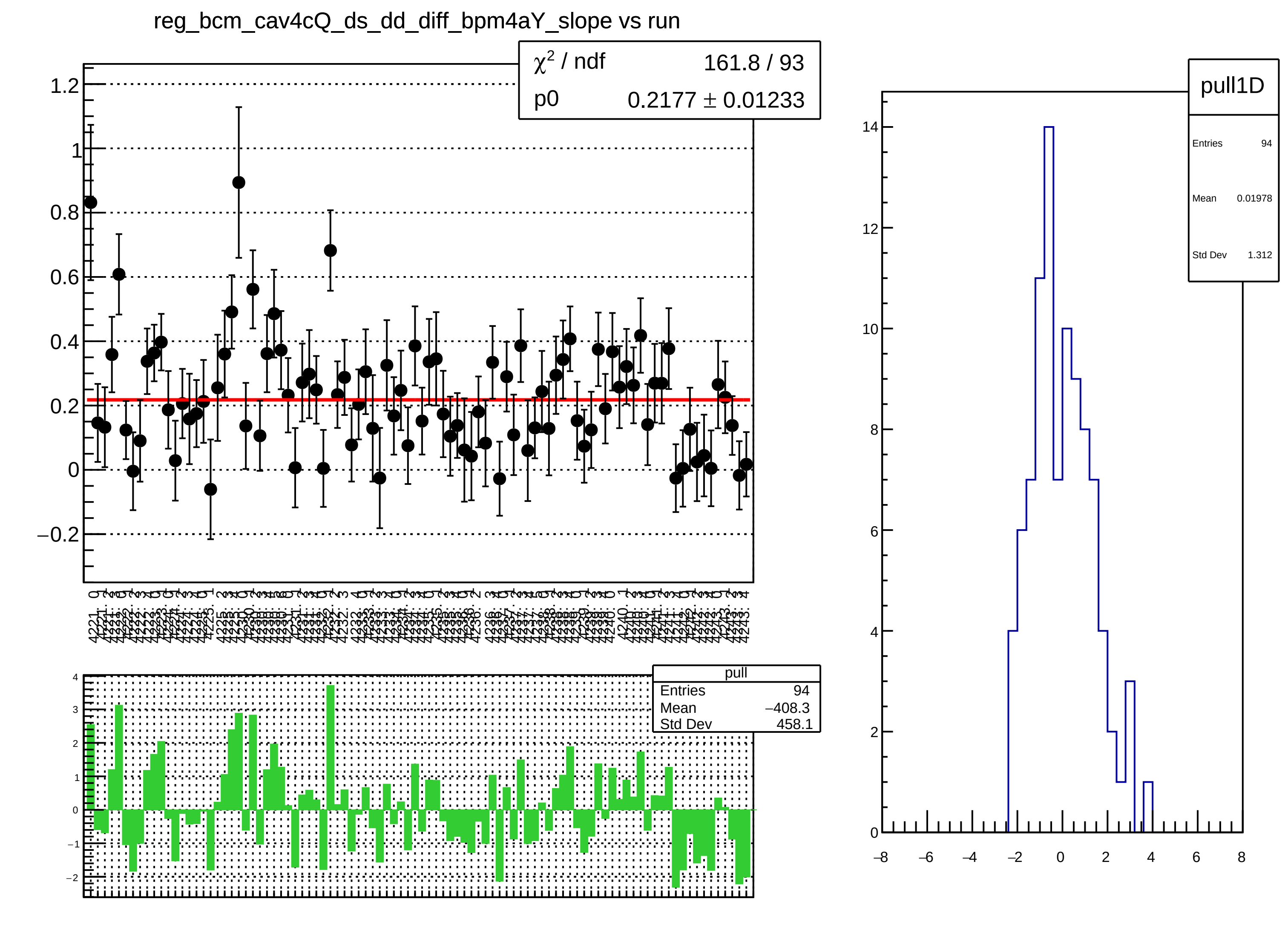
reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 201.8 / 93
p0 −0.7375 ± 0.02497
pull
Entries 94
Mean 127.5
Std Dev 63.08
pull1D
Entries 94
Mean −0.05281
Std Dev 1.464



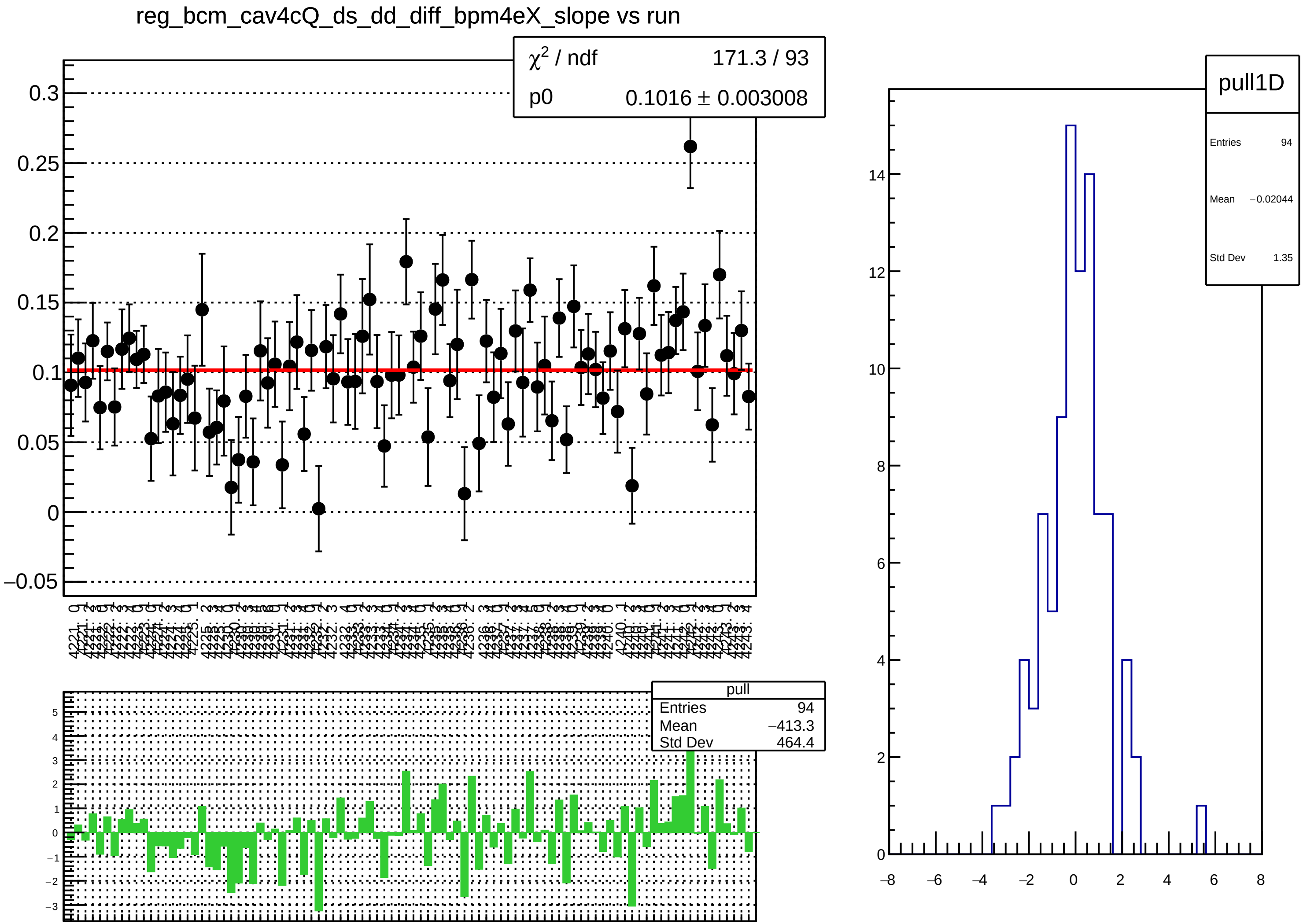
reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ2 / ndf 197.5 / 93
p0 −0.03268 ± 0.004744
pull
Entries 94
Mean −0.2185
Std Dev 33.62
pull1D
Entries 94
Mean −0.02447
Std Dev 1.449



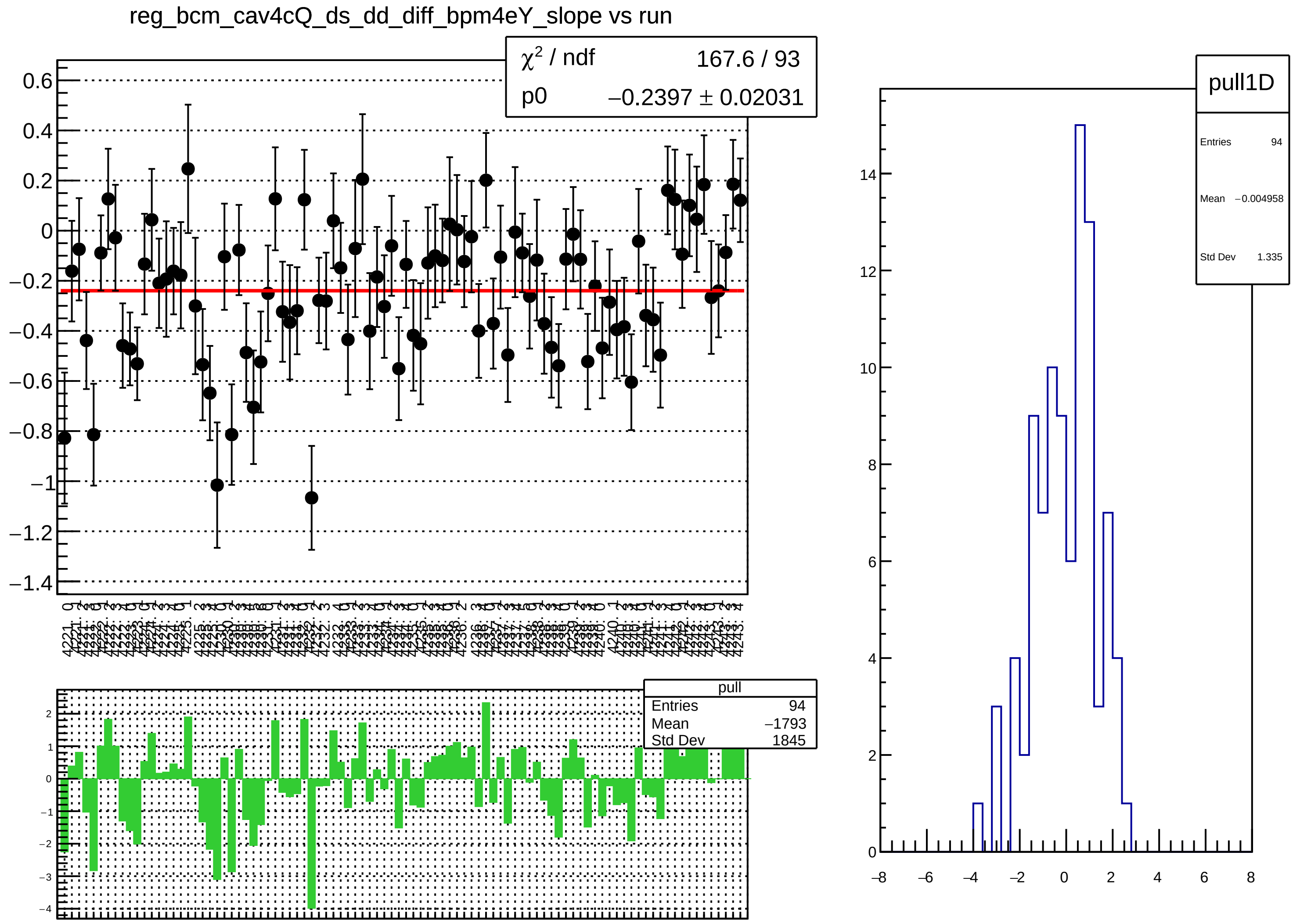
reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 105.4 / 93
p0 0.08956 ± 0.01471
pull
Entries 94
Mean −125.7
Std Dev 170.5
pull1D
Entries 94
Mean −0.02461
Std Dev 1.059



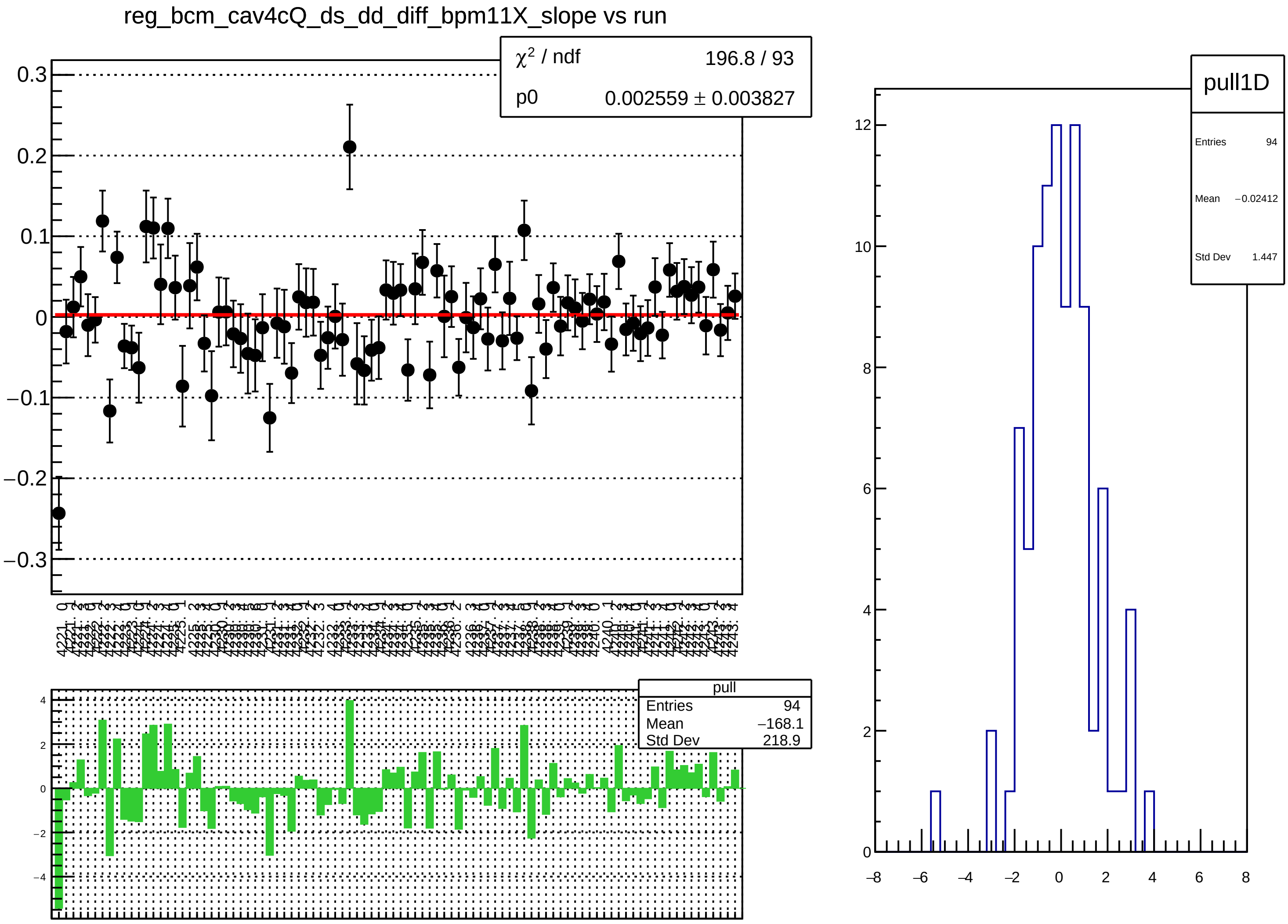
reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ2 / ndf 161.8 / 93
p0 0.2177 ± 0.01233
pull
Entries 94
Mean −408.3
Std Dev 458.1
pull1D
Entries 94
Mean 0.01978
Std Dev 1.312

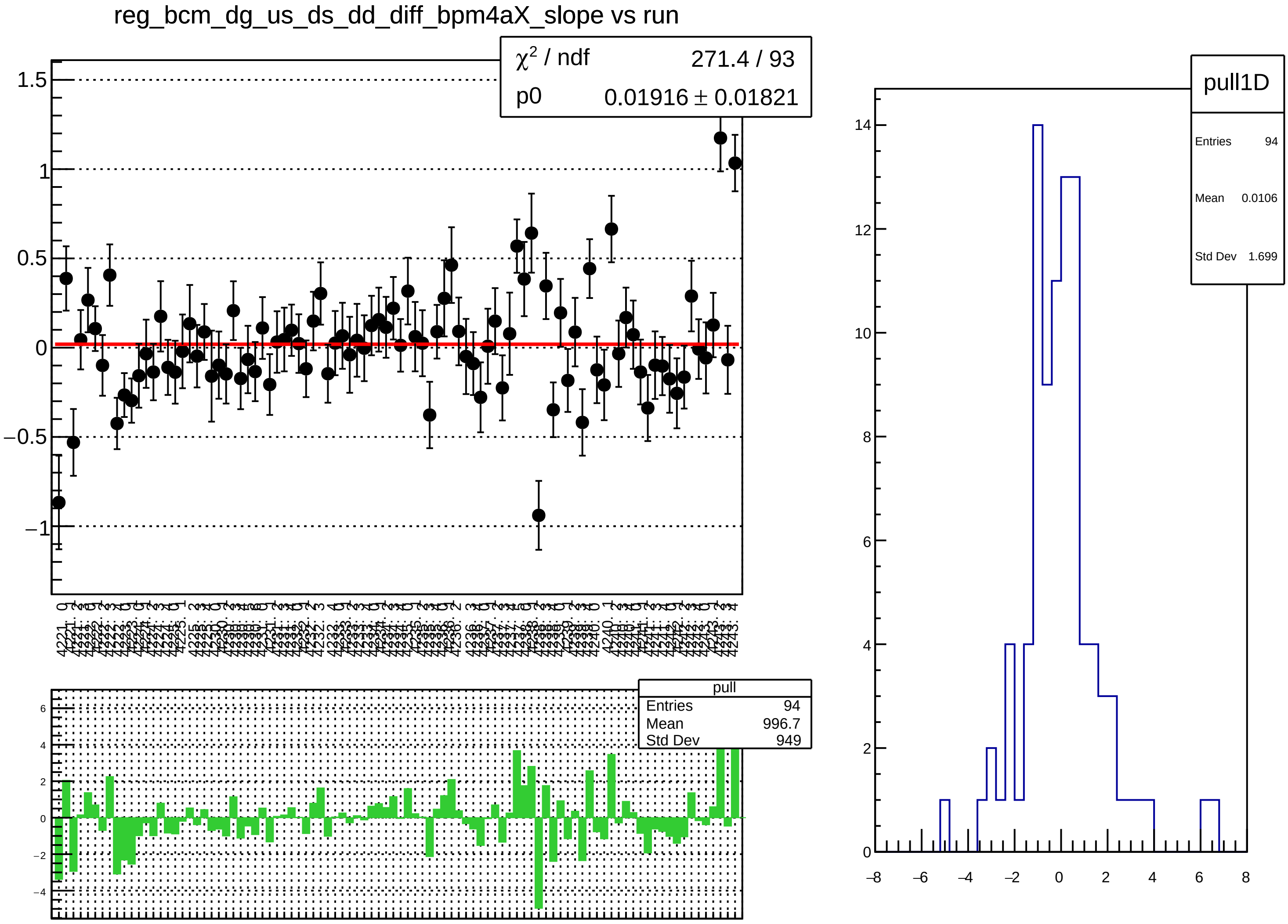


reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 171.3 / 93
p0 0.1016 ± 0.003008
pull
Entries 94
Mean −413.3
Std Dev 464.4
pull1D
Entries 94
Mean −0.02044
Std Dev 1.35



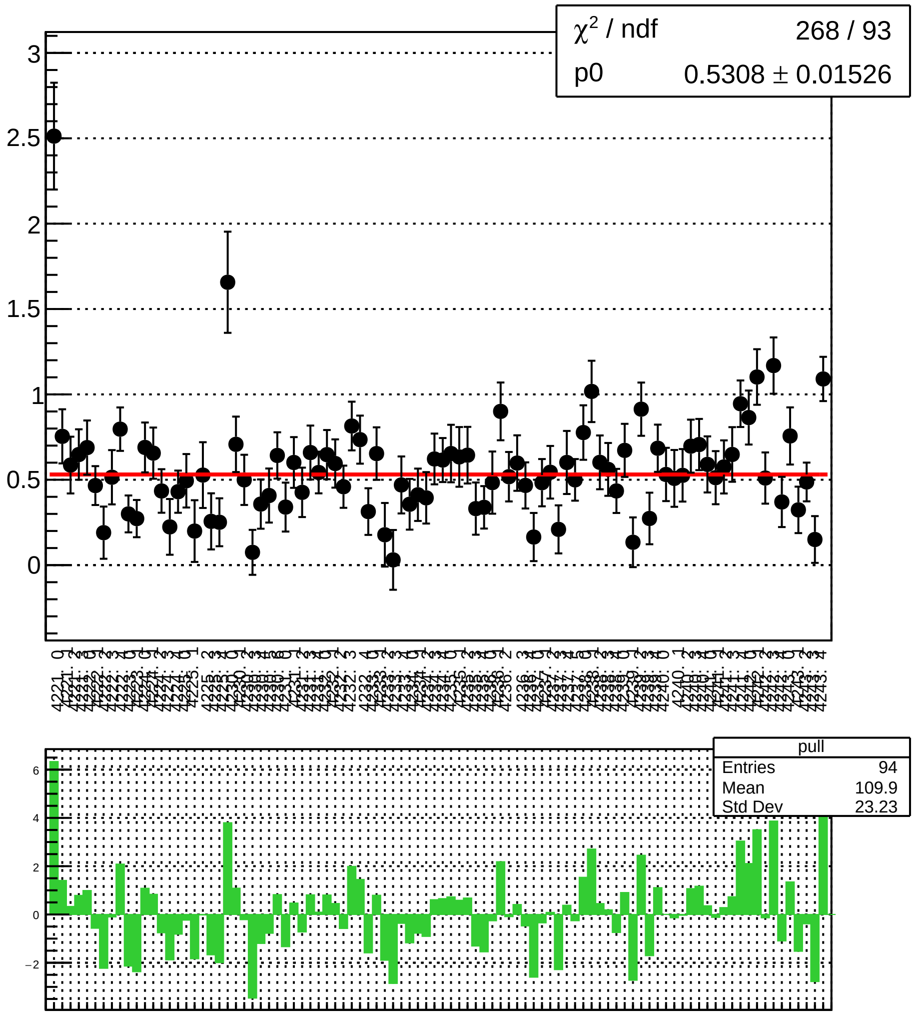
reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ2 / ndf 167.6 / 93
p0 −0.2397 ± 0.02031
pull
Entries 94
Mean −1793
Std Dev 1845
pull1D
Entries 94
Mean −0.004958
Std Dev 1.335

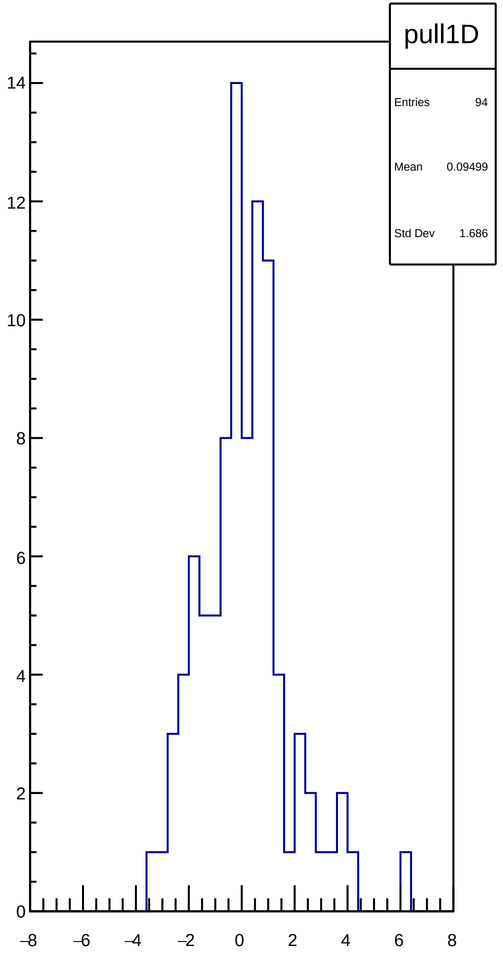

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ2 / ndf 196.8 / 93
p0 0.002559 ± 0.003827
pull
Entries 94
Mean −168.1
Std Dev 218.9
pull1D
Entries 94
Mean −0.02412
Std Dev 1.447



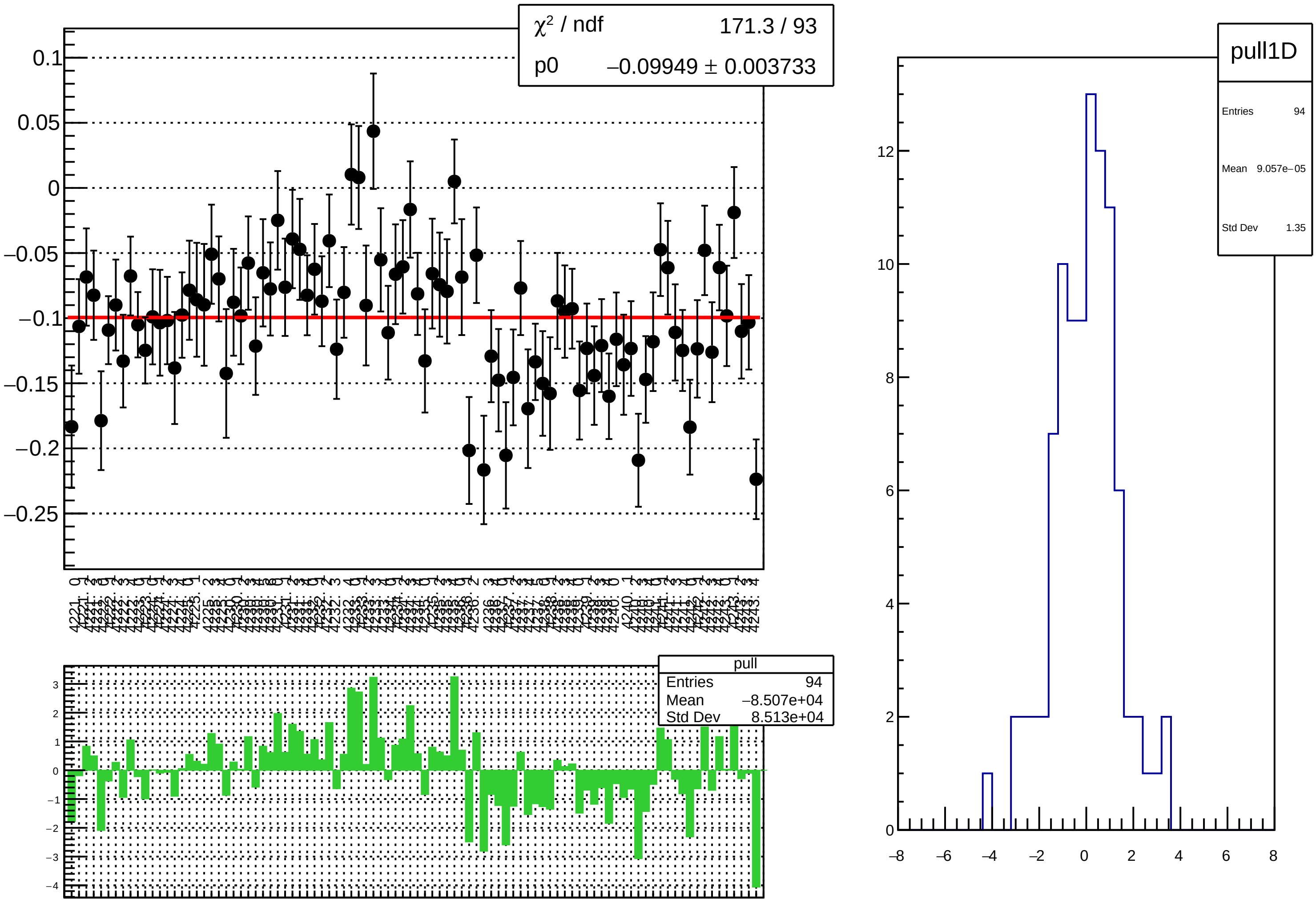
reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ2 / ndf 271.4 / 93
p0 0.01916 ± 0.01821
pull
Entries 94
Mean 996.7
Std Dev 949
pull1D
Entries 94
Mean 0.0106
Std Dev 1.699

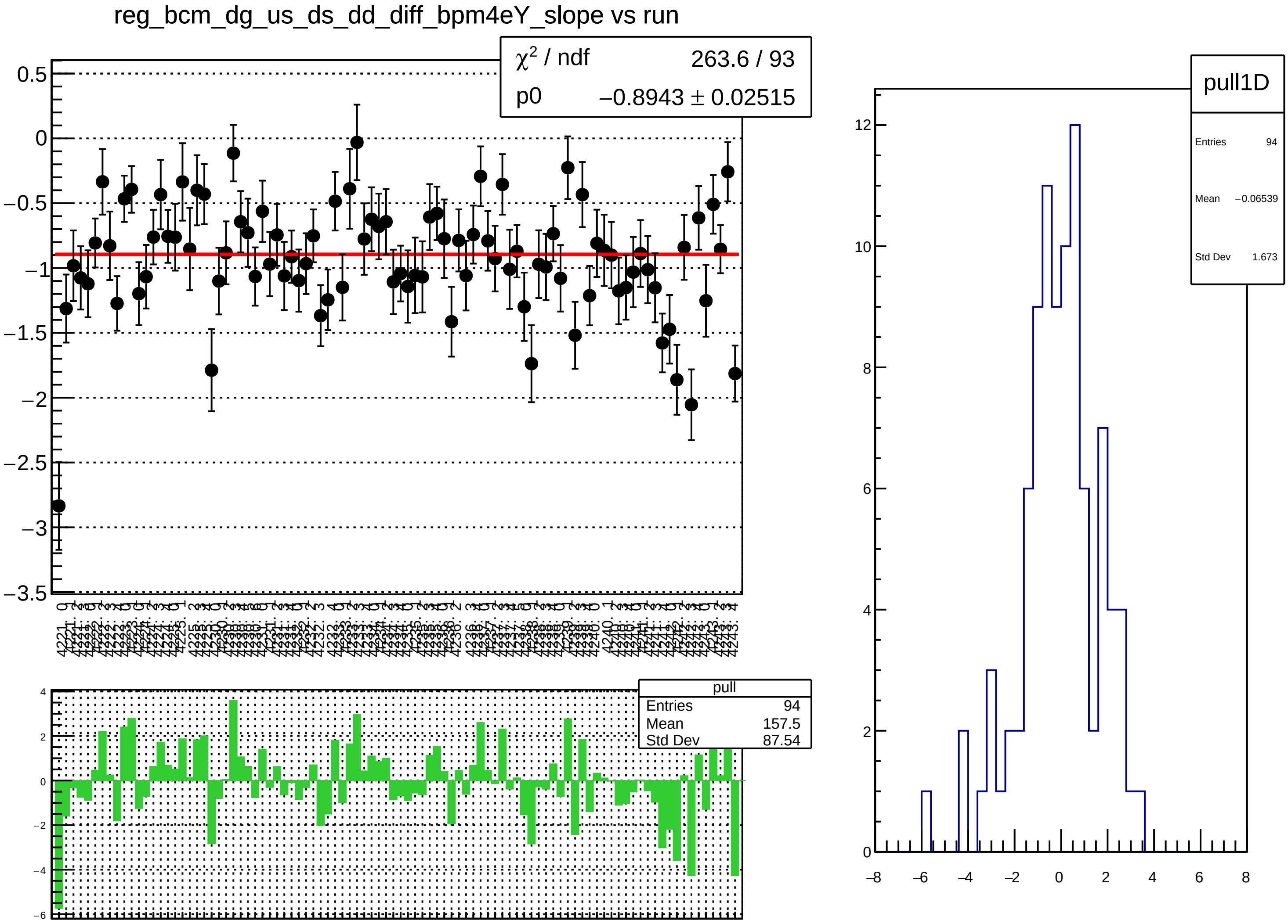
reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run



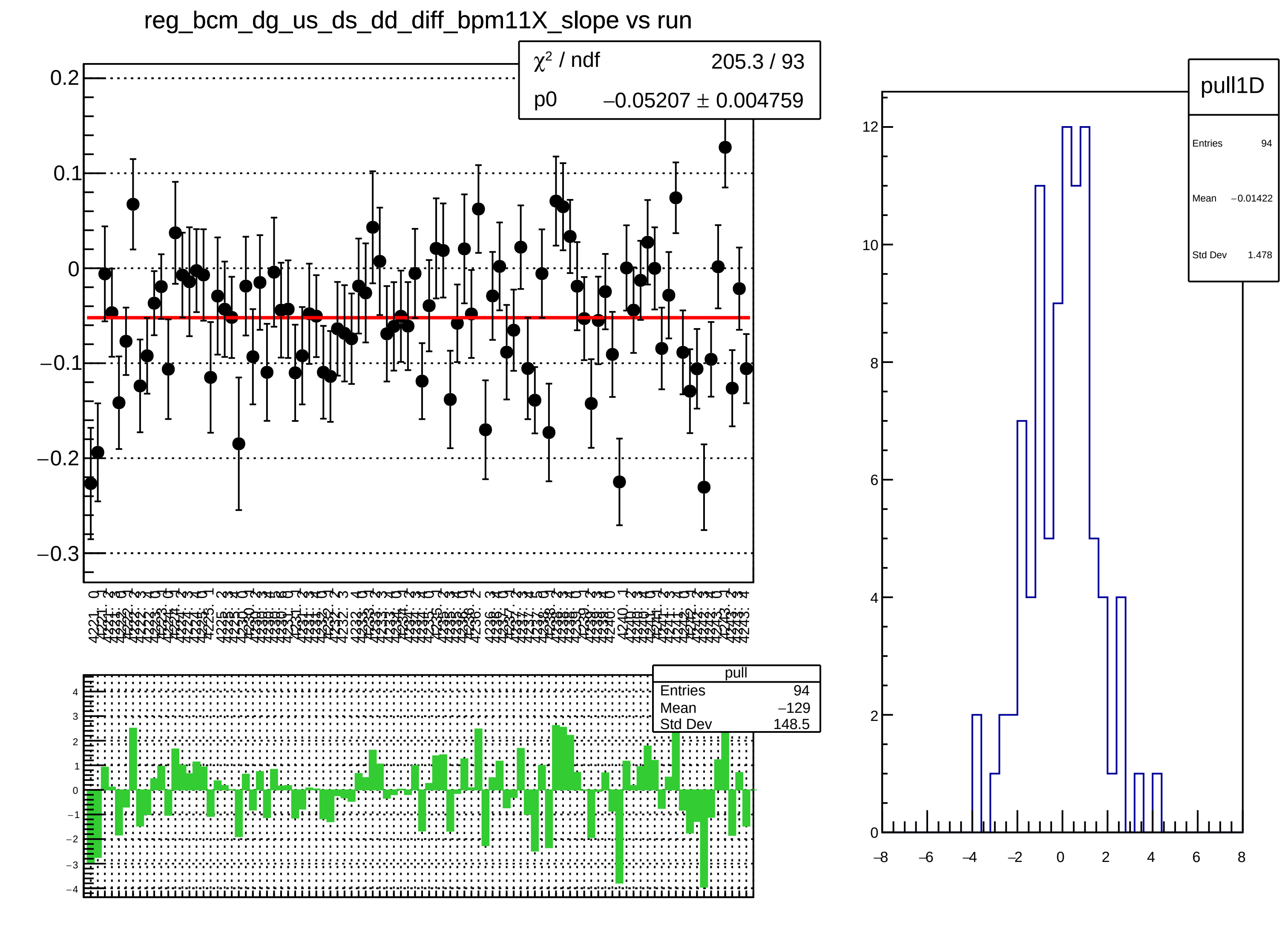


reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run

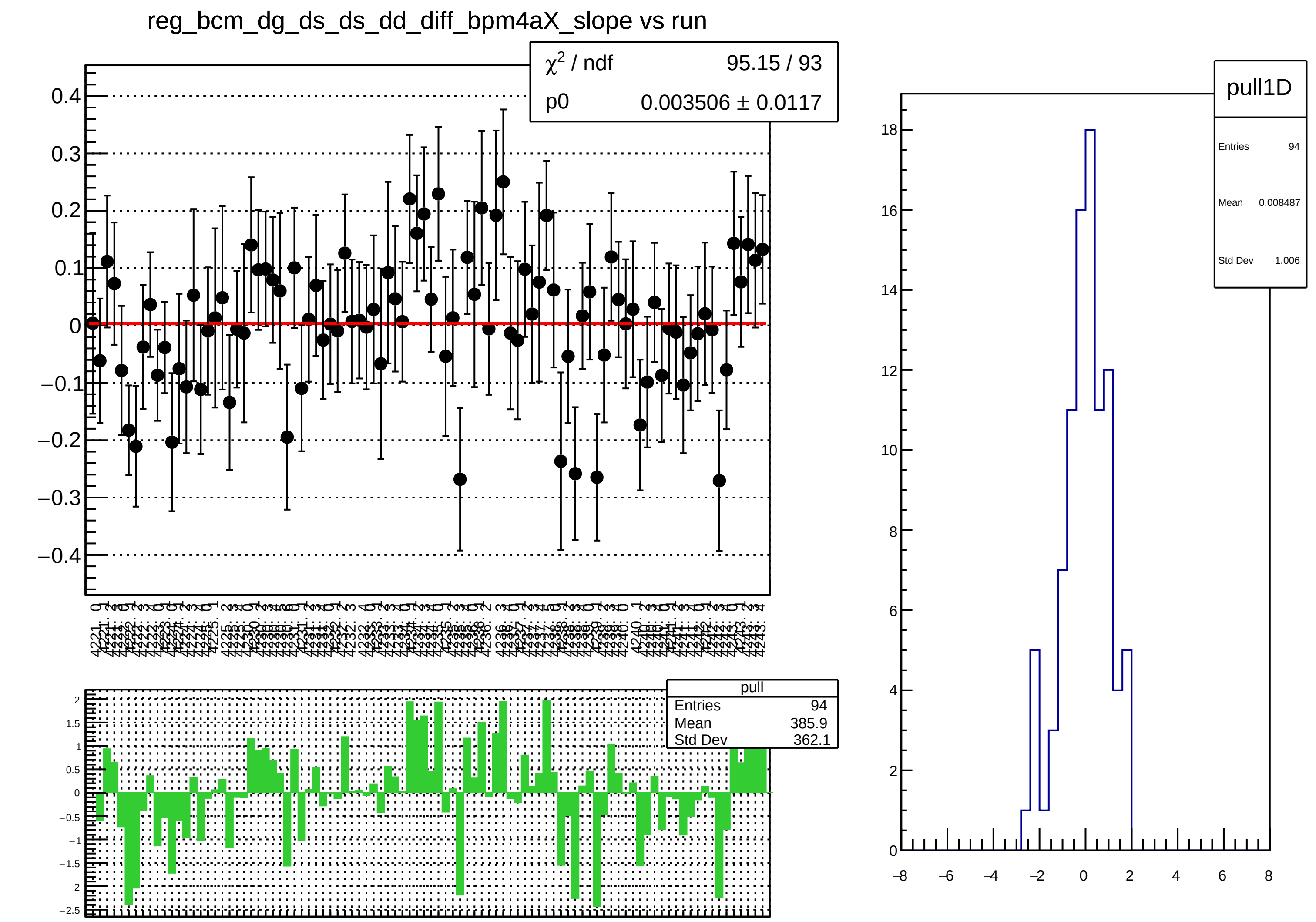




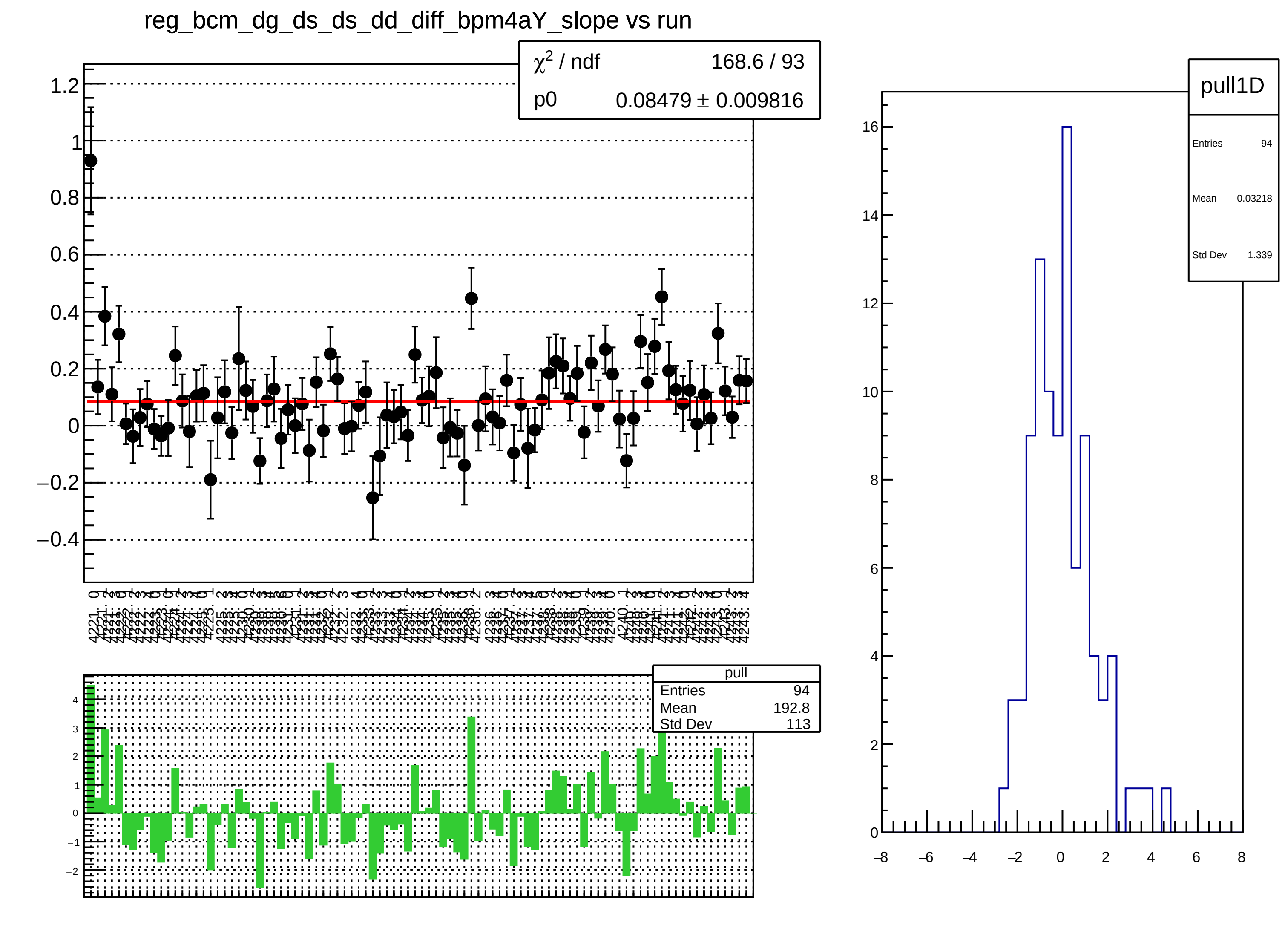
reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 263.6 / 93
p0 −0.8943 ± 0.02515
pull
Entries 94
Mean 157.5
Std Dev 87.54
pull1D
Entries 94
Mean −0.06539
Std Dev 1.673



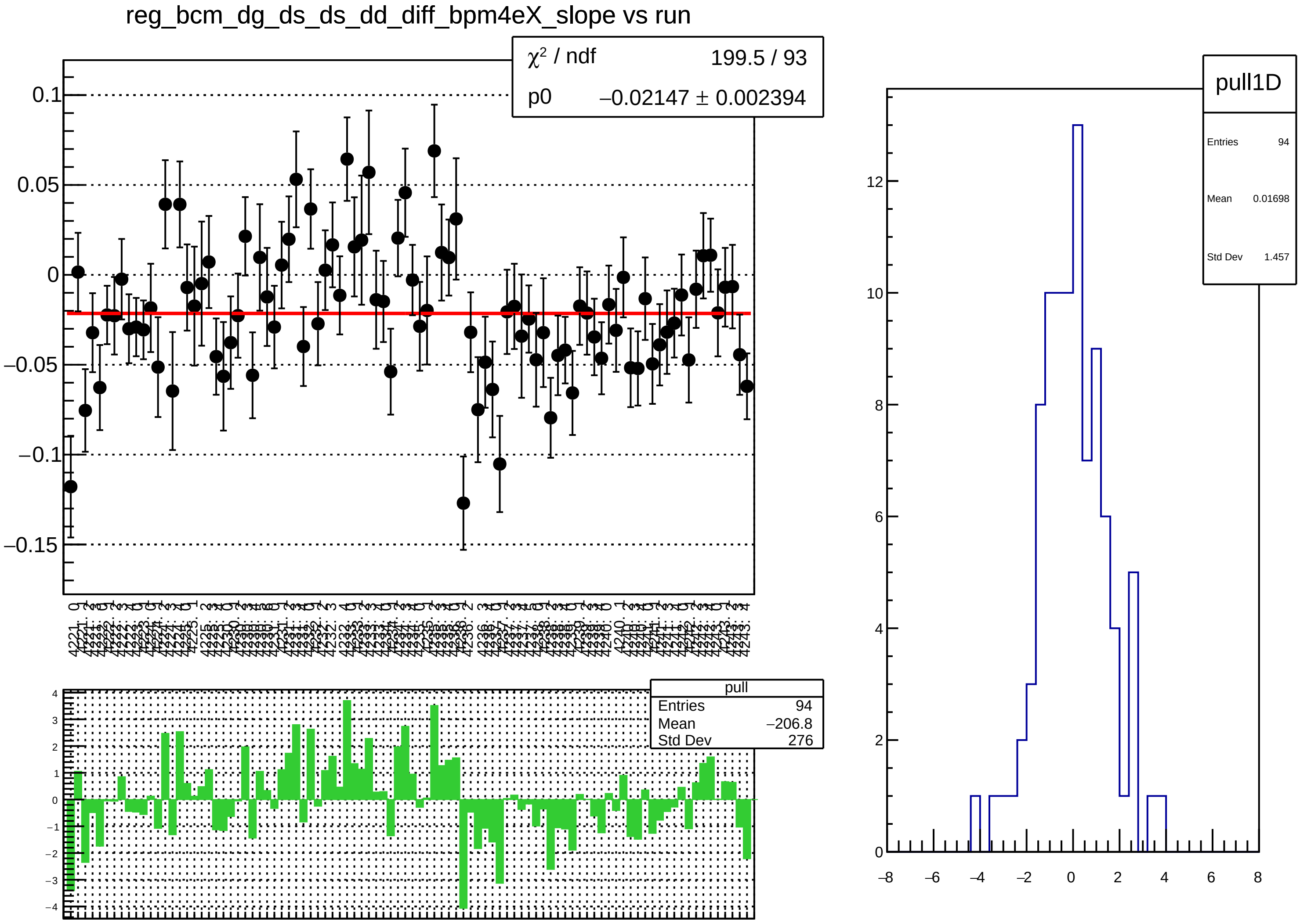
reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ2 / ndf 205.3 / 93
p0 −0.05207 ± 0.004759
pull
Entries 94
Mean −129
Std Dev 148.5
pull1D
Entries 94
Mean −0.01422
Std Dev 1.478



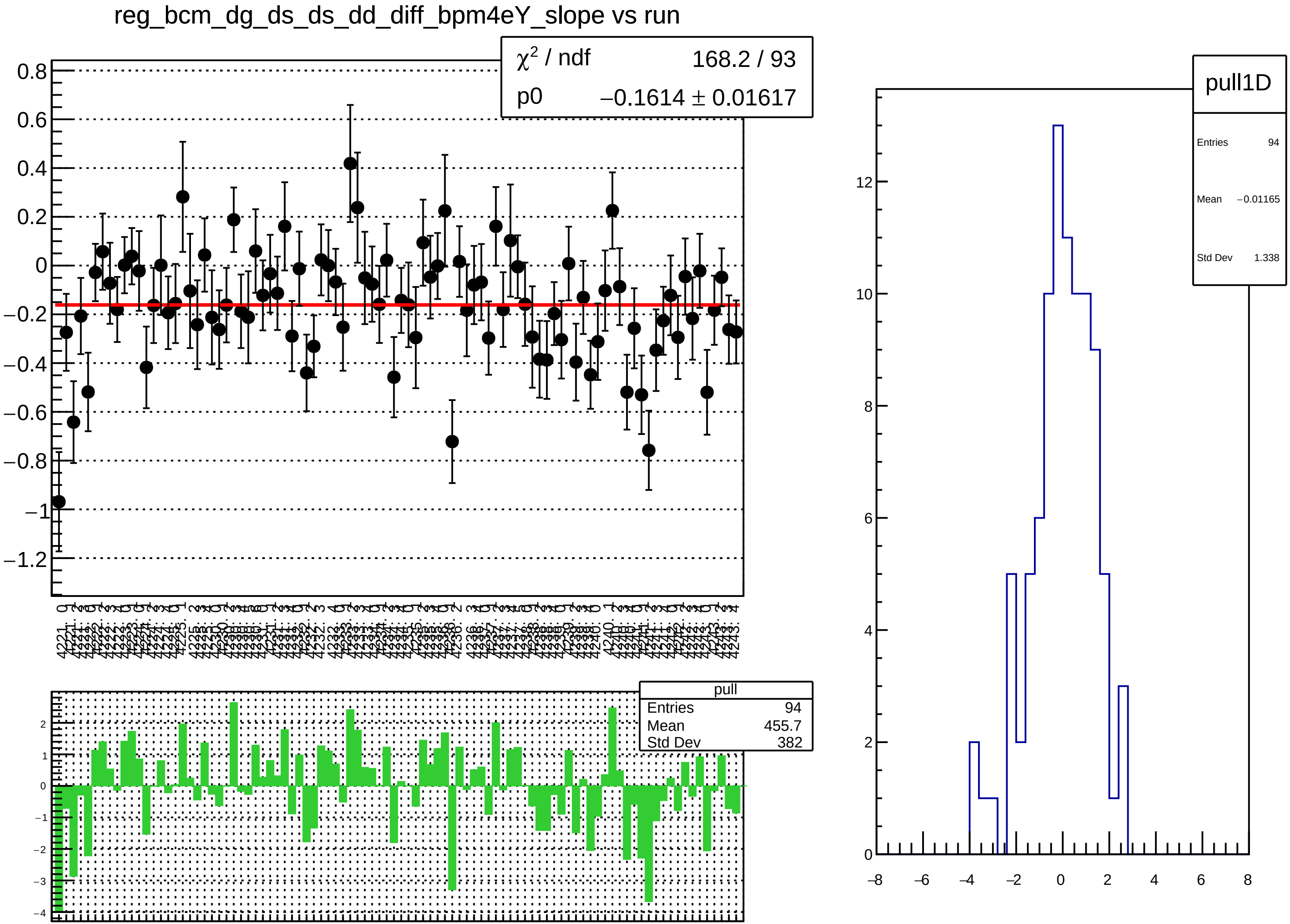
reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 95.15 / 93
p0 0.003506 ± 0.0117
pull
Entries 94
Mean 385.9
Std Dev 362.1
pull1D
Entries 94
Mean 0.008487
Std Dev 1.006



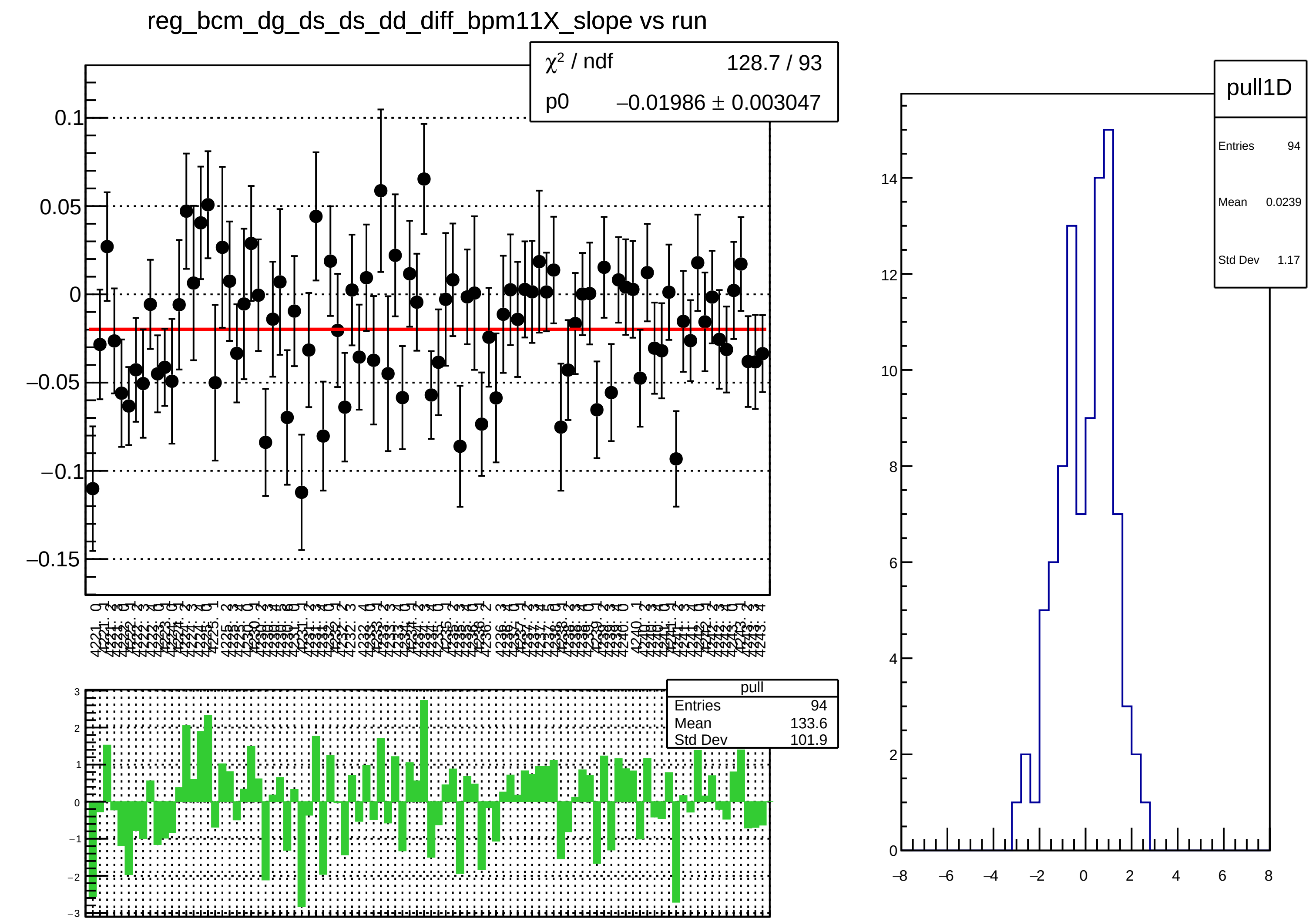
reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 168.6 / 93
p0 0.08479 ± 0.009816
pull
Entries 94
Mean 192.8
Std Dev 113
pull1D
Entries 94
Mean 0.03218
Std Dev 1.339



reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 199.5 / 93
p0 −0.02147 ± 0.002394
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −206.8
Std Dev 276
pull1D
Entries 94
Mean 0.01698
Std Dev 1.457



reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ2 / ndf 168.2 / 93
p0 −0.1614 ± 0.01617
pull
Entries 94
Mean 455.7
Std Dev 382
pull1D
Entries 94
Mean −0.01165
Std Dev 1.338


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ^2 / ndf 128.7 / 93
p0 −0.01986 ± 0.003047
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 133.6
Std Dev 101.9
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.0239
Std Dev 1.17
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8