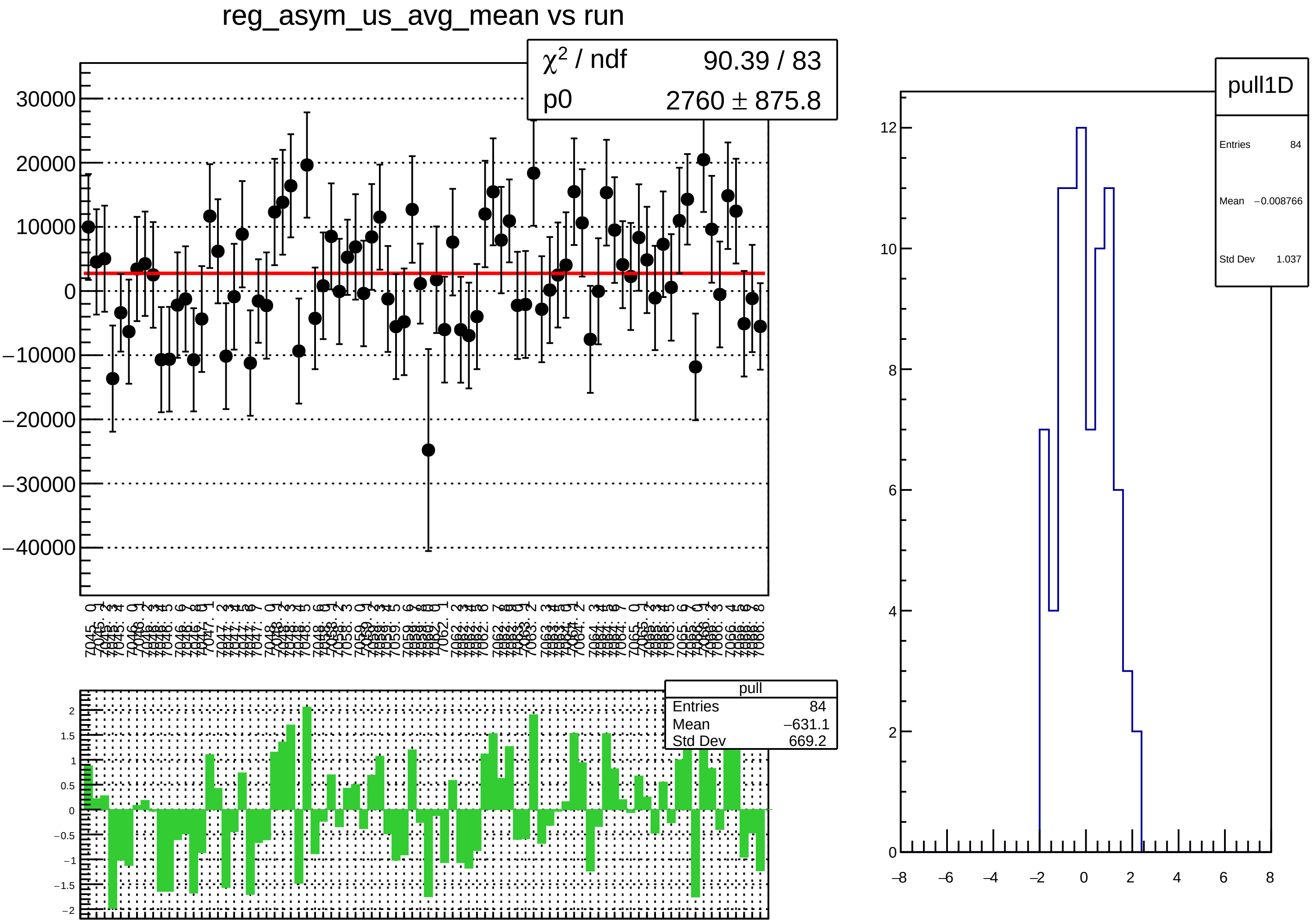
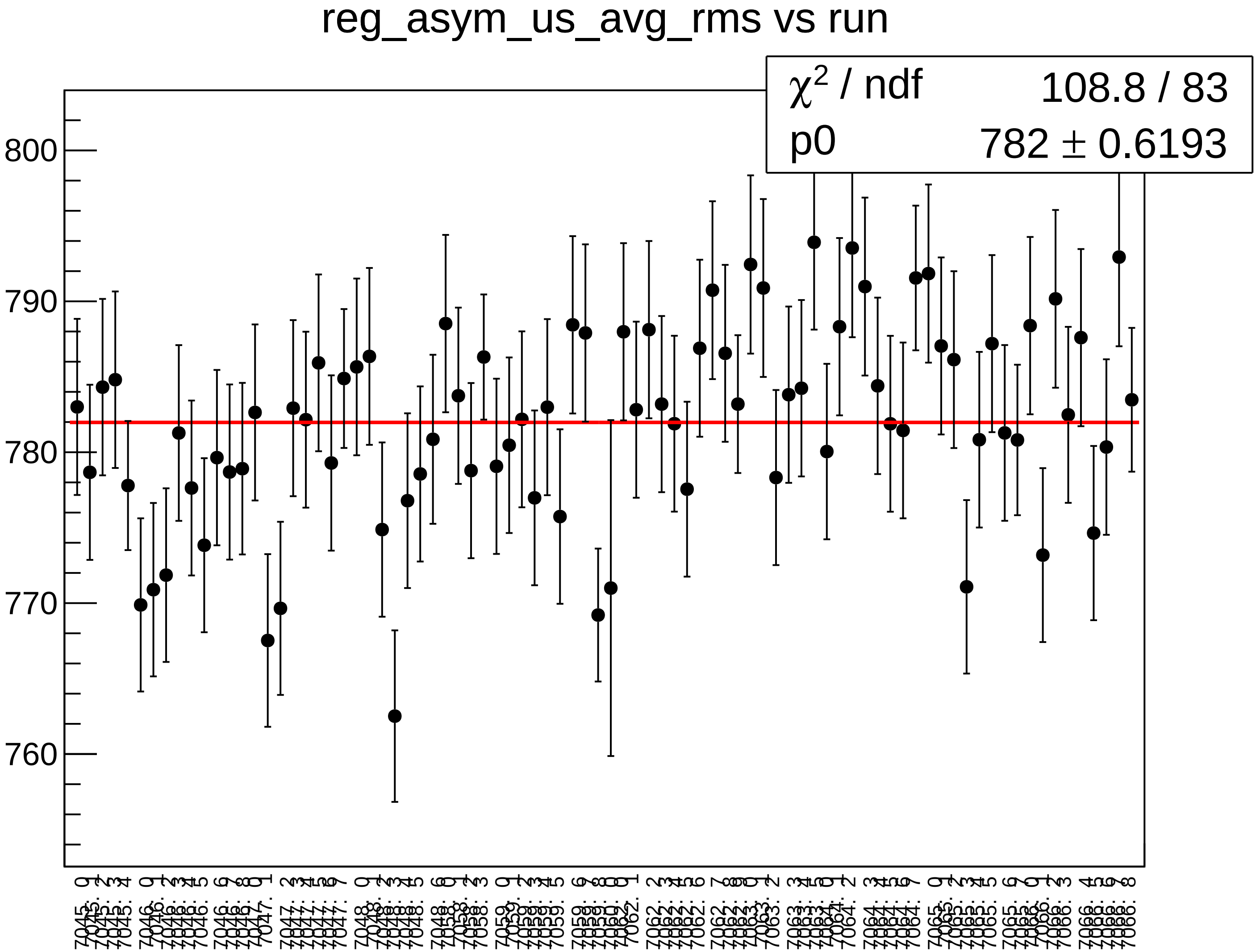
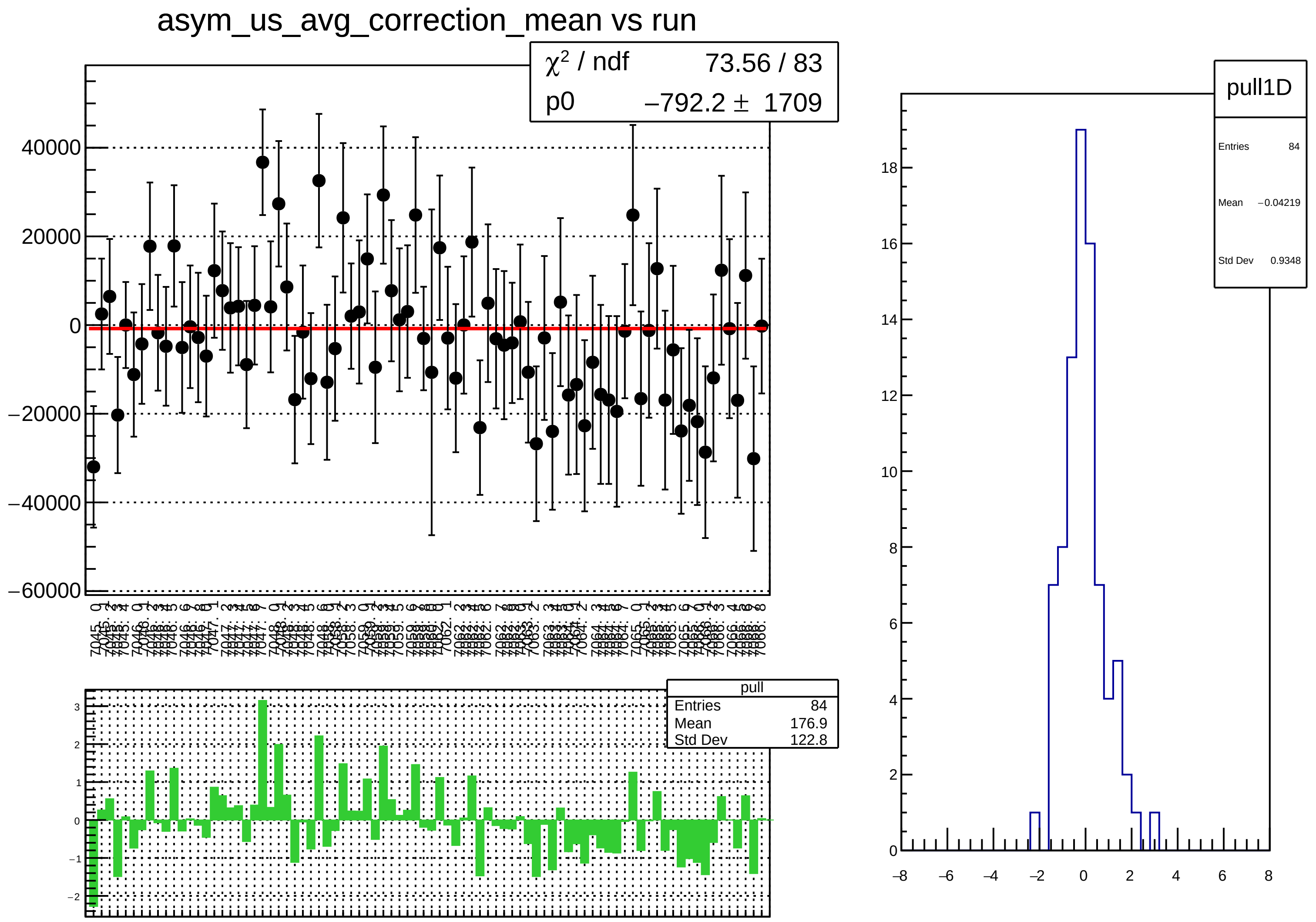
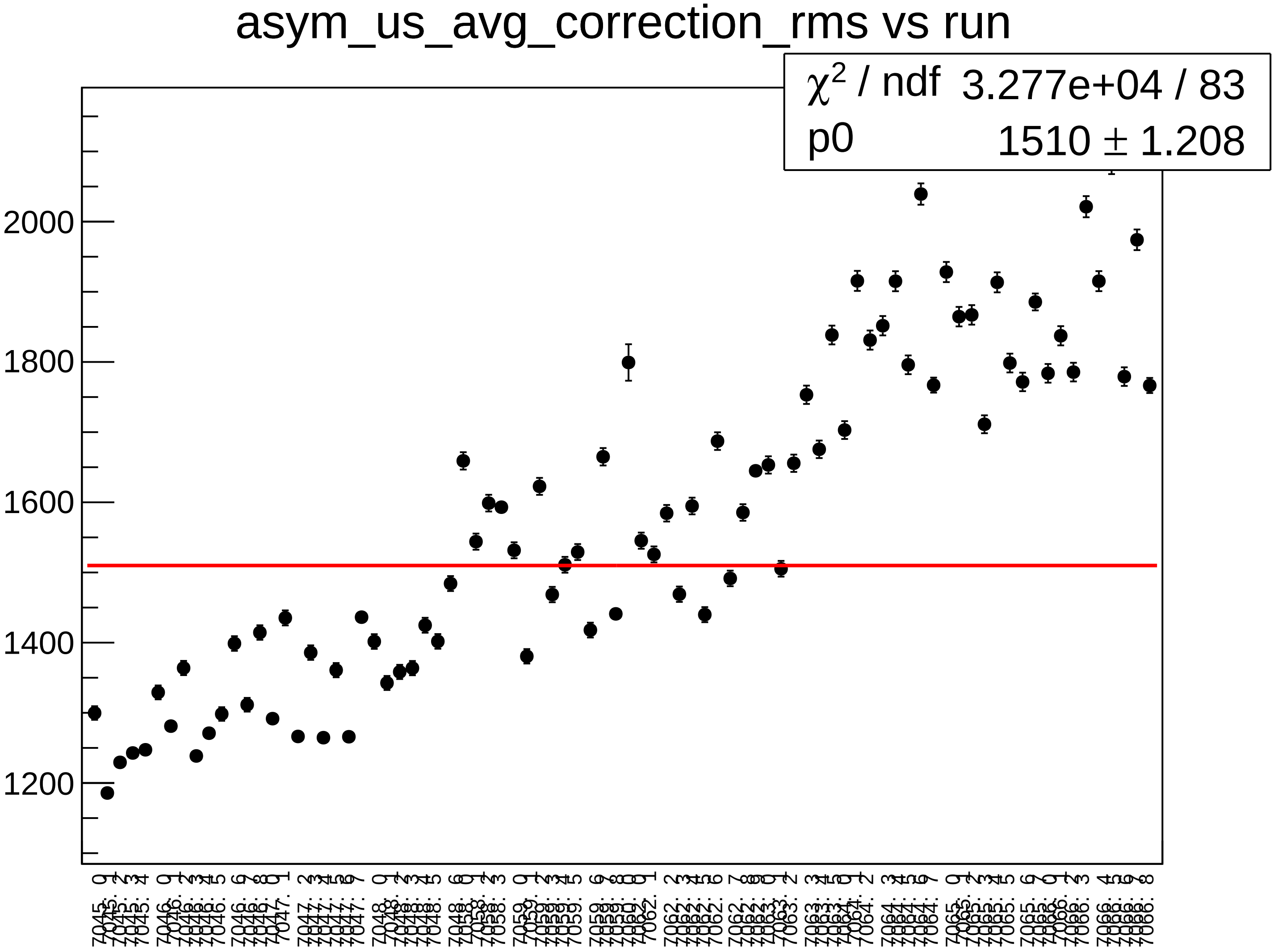

reg_asym_us_avg_mean vs run
$\chi^2$ / ndf 90.39 / 83
p0 2760 ± 875.8
pull
Entries 84
Mean −631.1
Std Dev 669.2
pull1D
Entries 84
Mean −0.008766
Std Dev 1.037



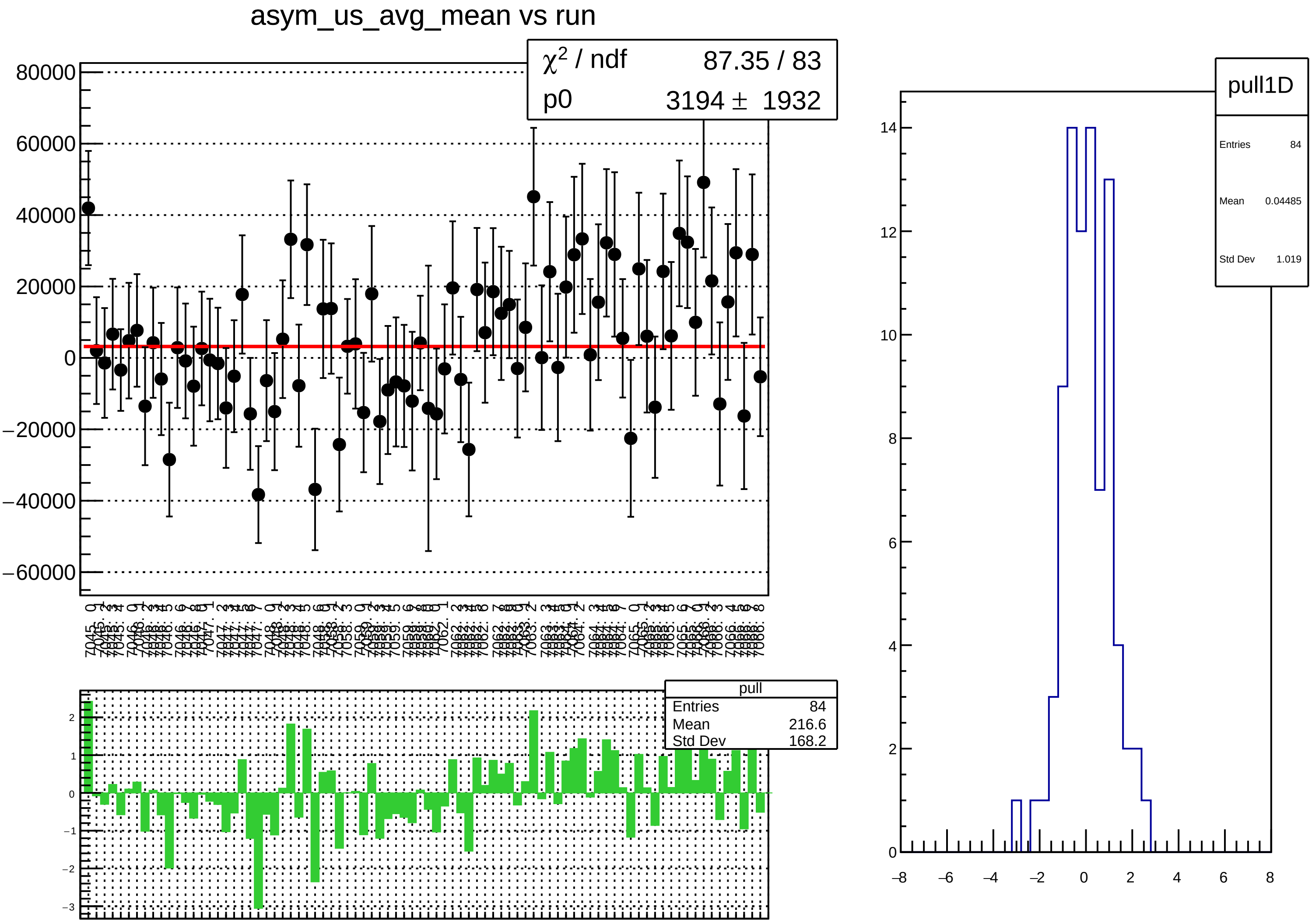
reg_asym_us_avg_rms vs run
$\chi^2$ / ndf 108.8 / 83
p0 782 ± 0.6193
800
790
780
770
760



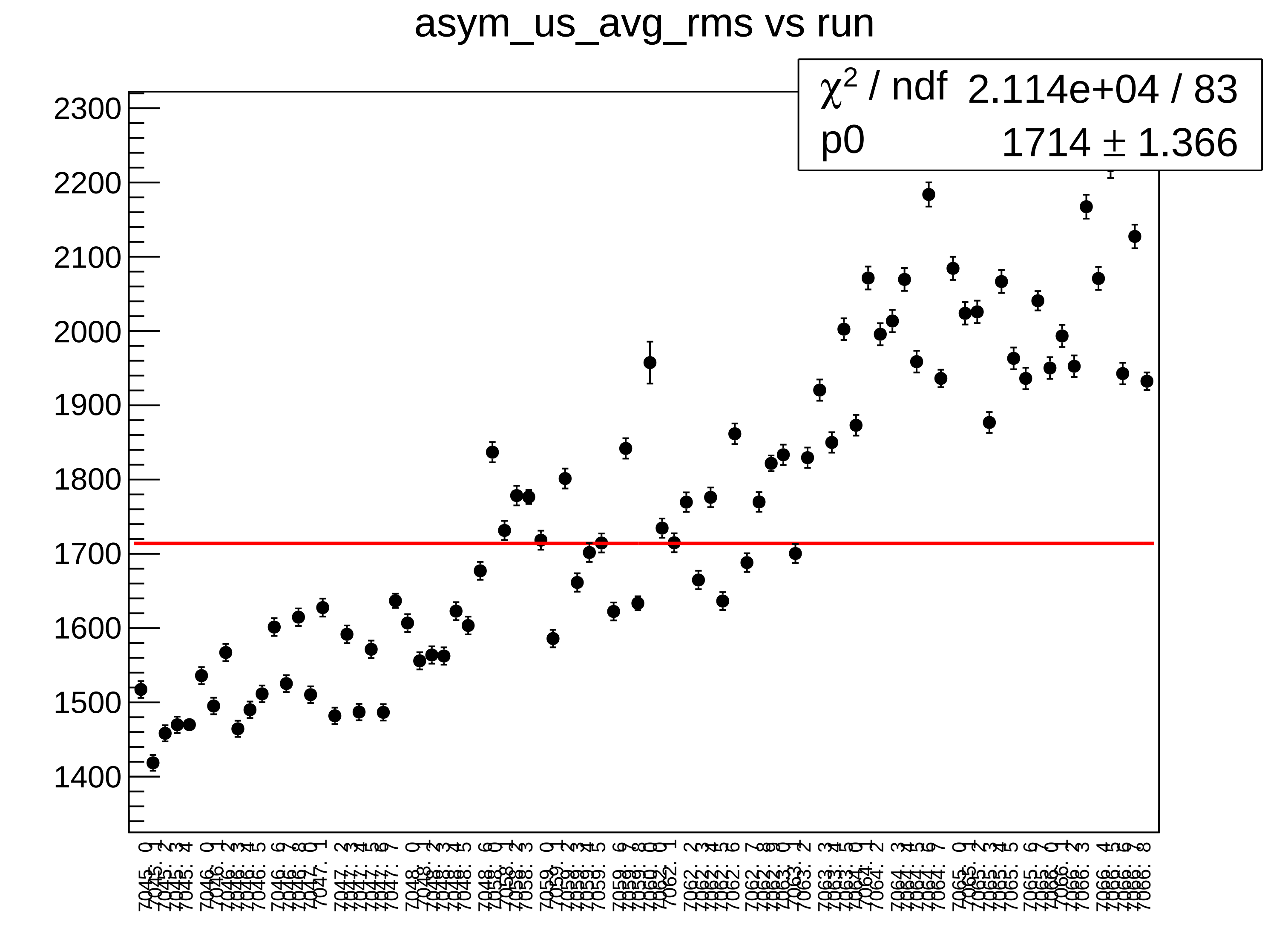
asym_us_avg_correction_mean vs run
$\chi^2$ / ndf 73.56 / 83
p0 −792.2 ± 1709
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 176.9
Std Dev 122.8
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.04219
Std Dev 0.9348
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



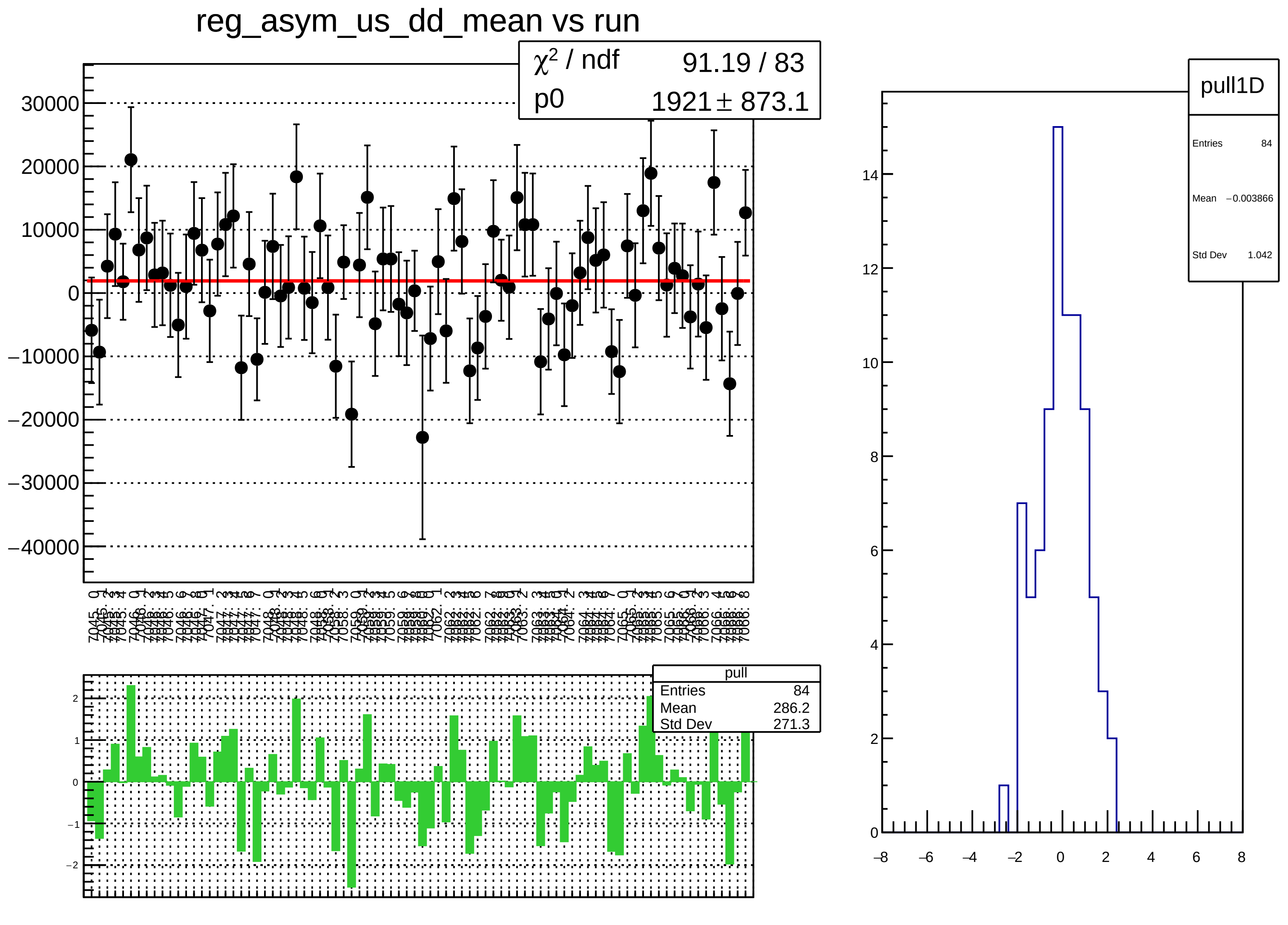
asym_us_avg_correction_rms vs run
$\chi^2$ / ndf 3.277e+04 / 83
p0 1510 ± 1.208
2000
1800
1600
1400
1200



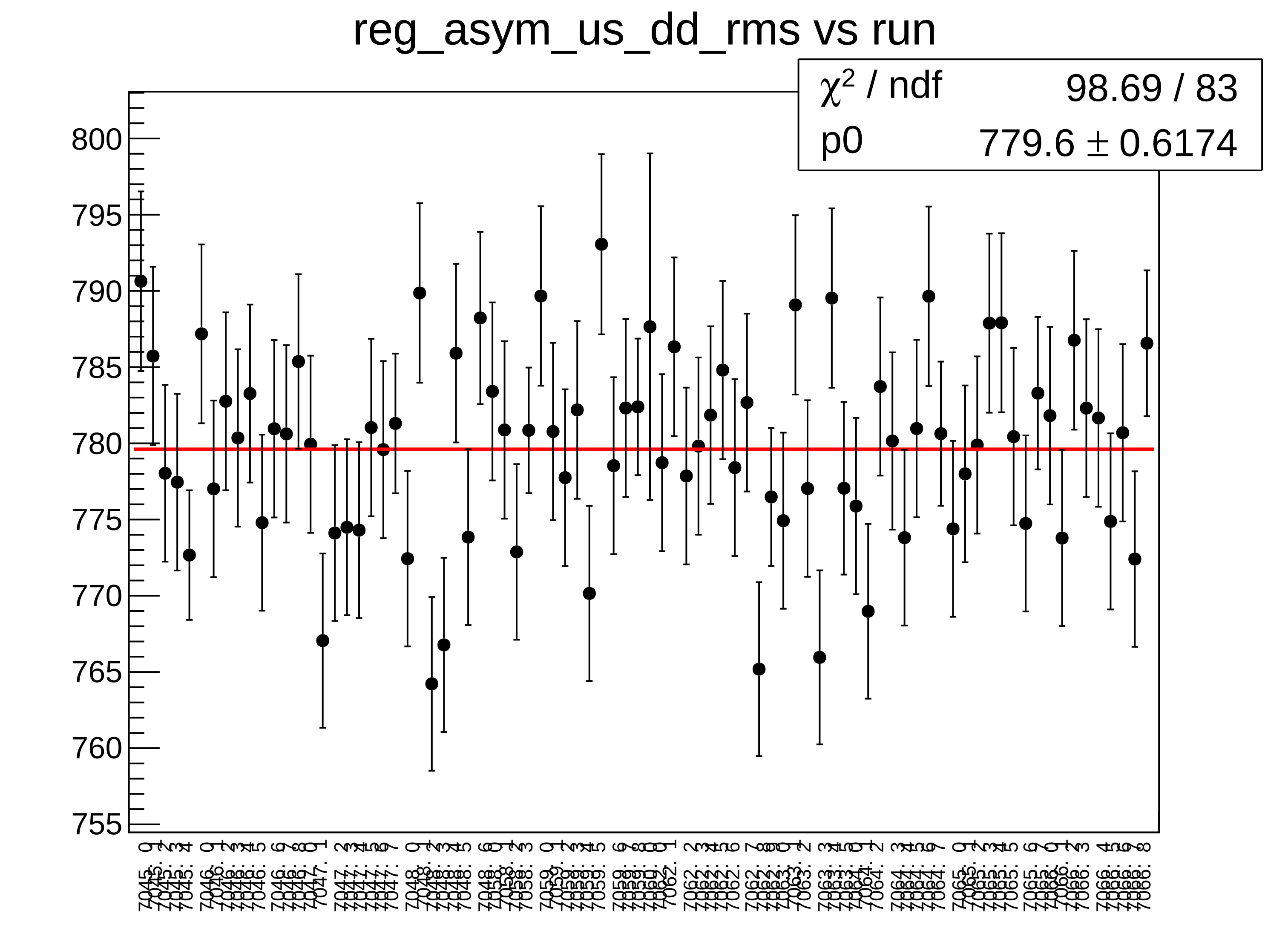
asym_us_avg_mean vs run
χ2 / ndf 87.35 / 83
p0 3194 ± 1932
pull
Entries 84
Mean 216.6
Std Dev 168.2
pull1D
Entries 84
Mean 0.04485
Std Dev 1.019



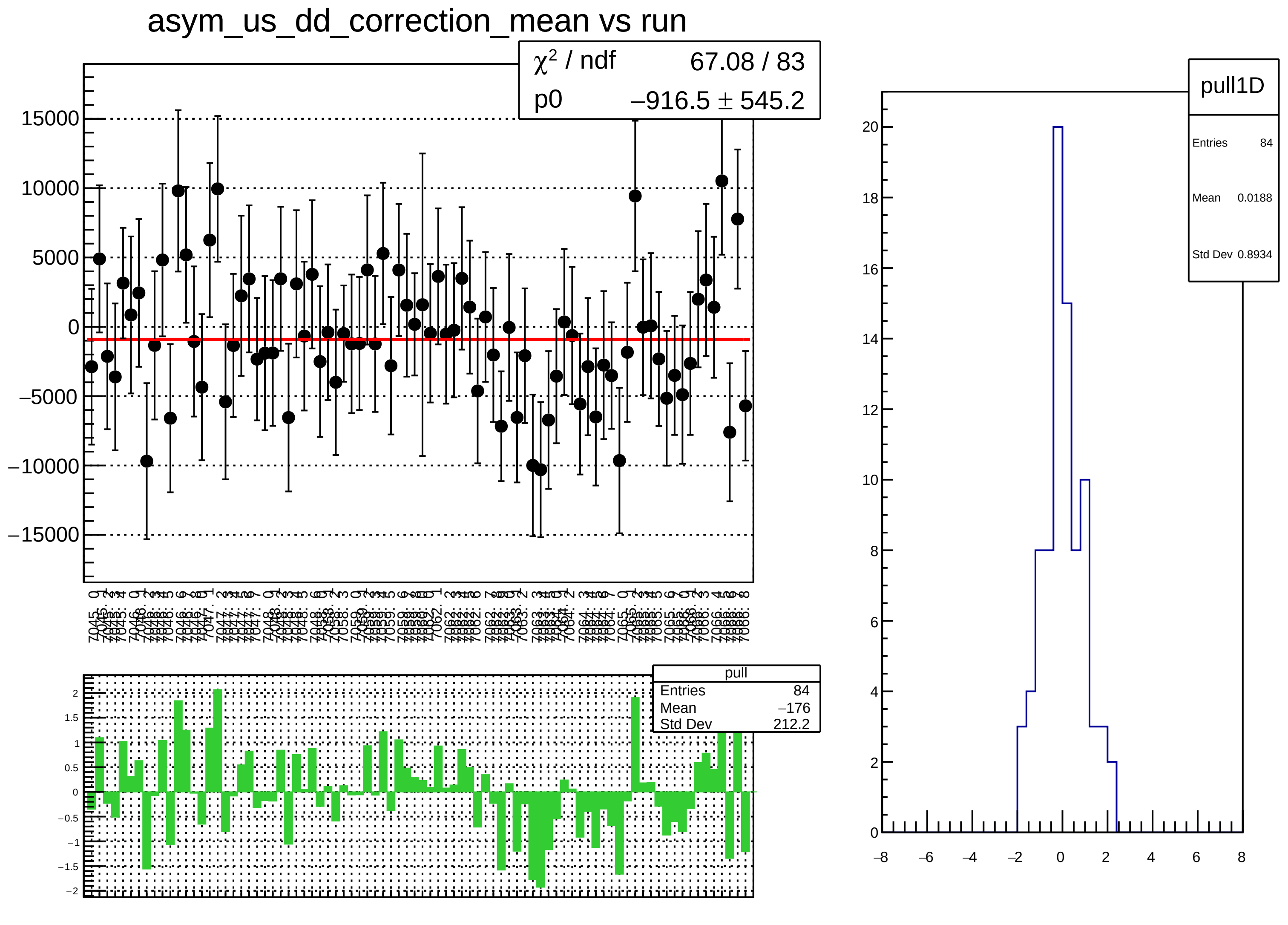
asym_us_avg_rms vs run
$\chi^2$ / ndf 2.114e+04 / 83
p0 1714 ± 1.366
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

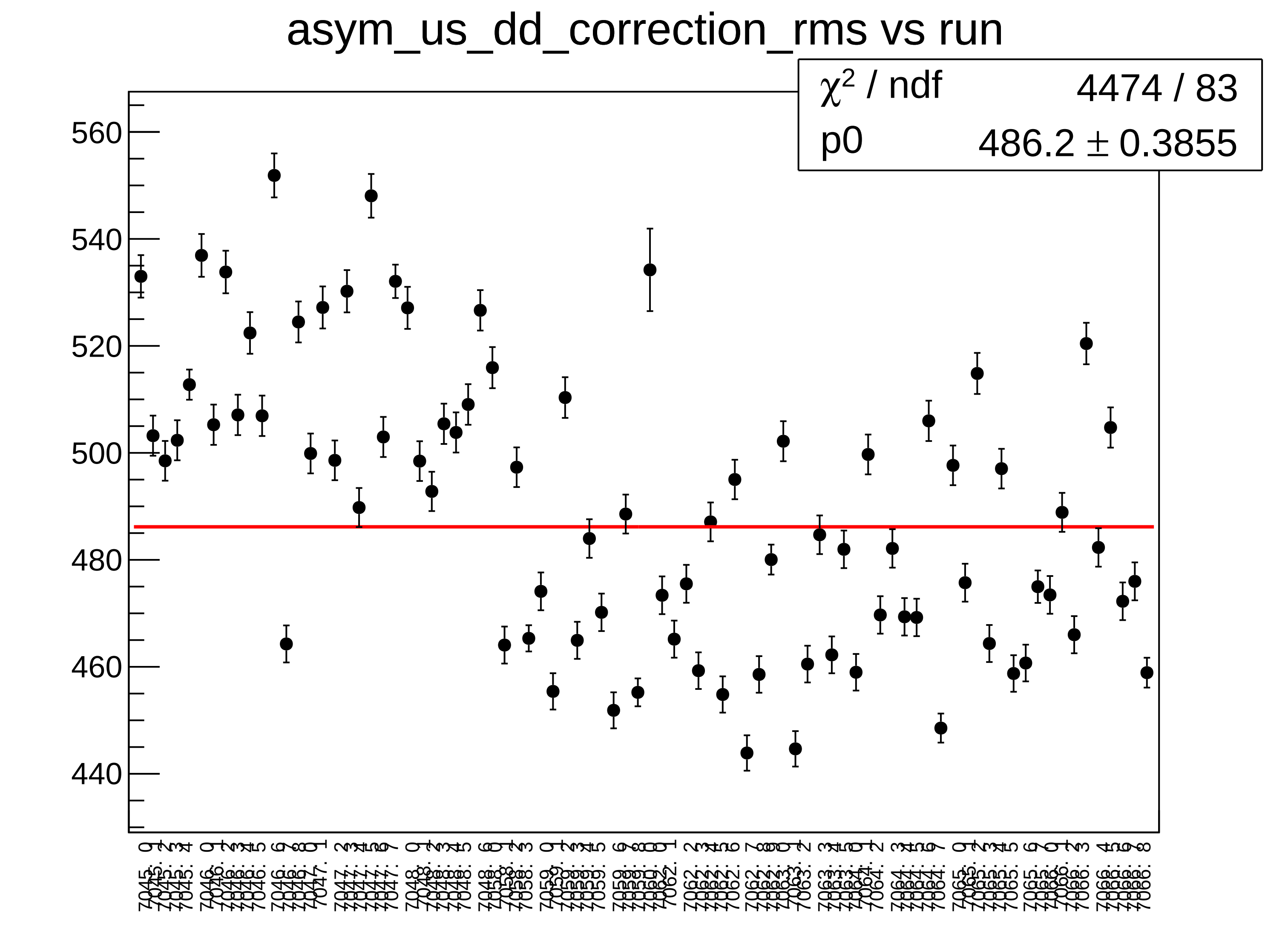


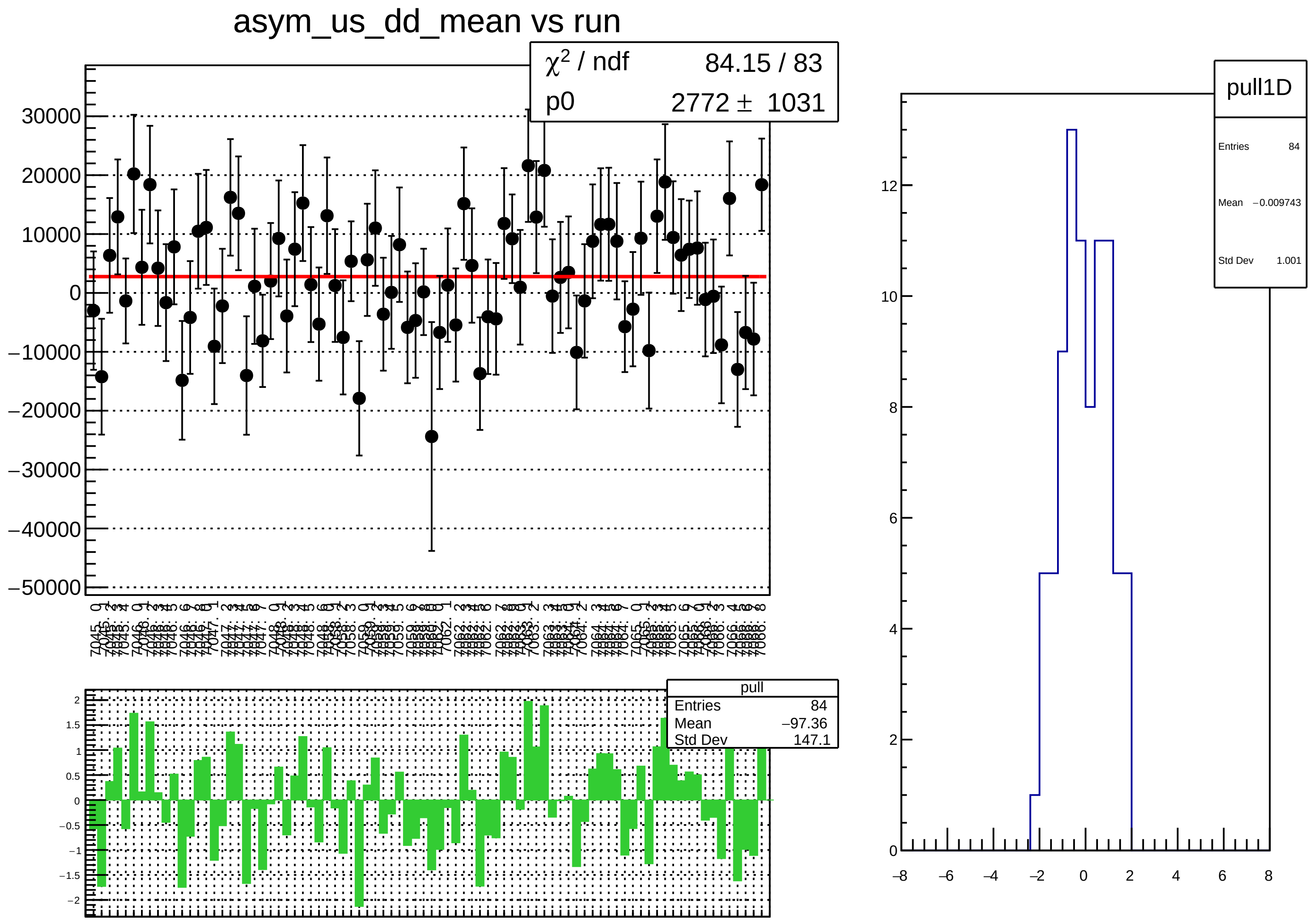
reg_asym_us_dd_mean vs run
χ2 / ndf 91.19 / 83
p0 1921 ± 873.1
pull
Entries 84
Mean 286.2
Std Dev 271.3
pull1D
Entries 84
Mean −0.003866
Std Dev 1.042



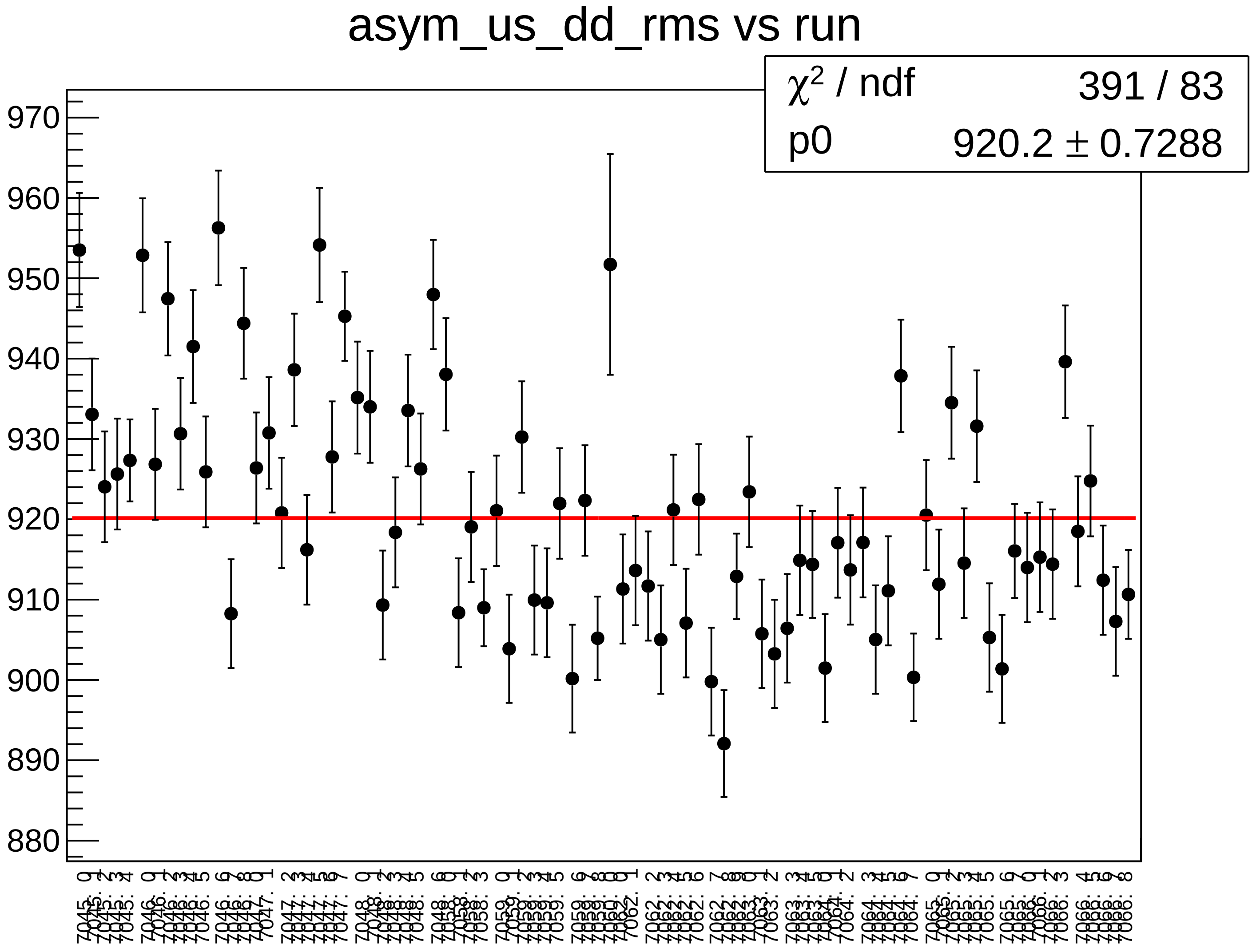
reg_asym_us_dd_rms vs run
$\chi^2$ / ndf 98.69 / 83
p0 779.6 ± 0.6174
800
795
790
785
780
775
770
765
760
755

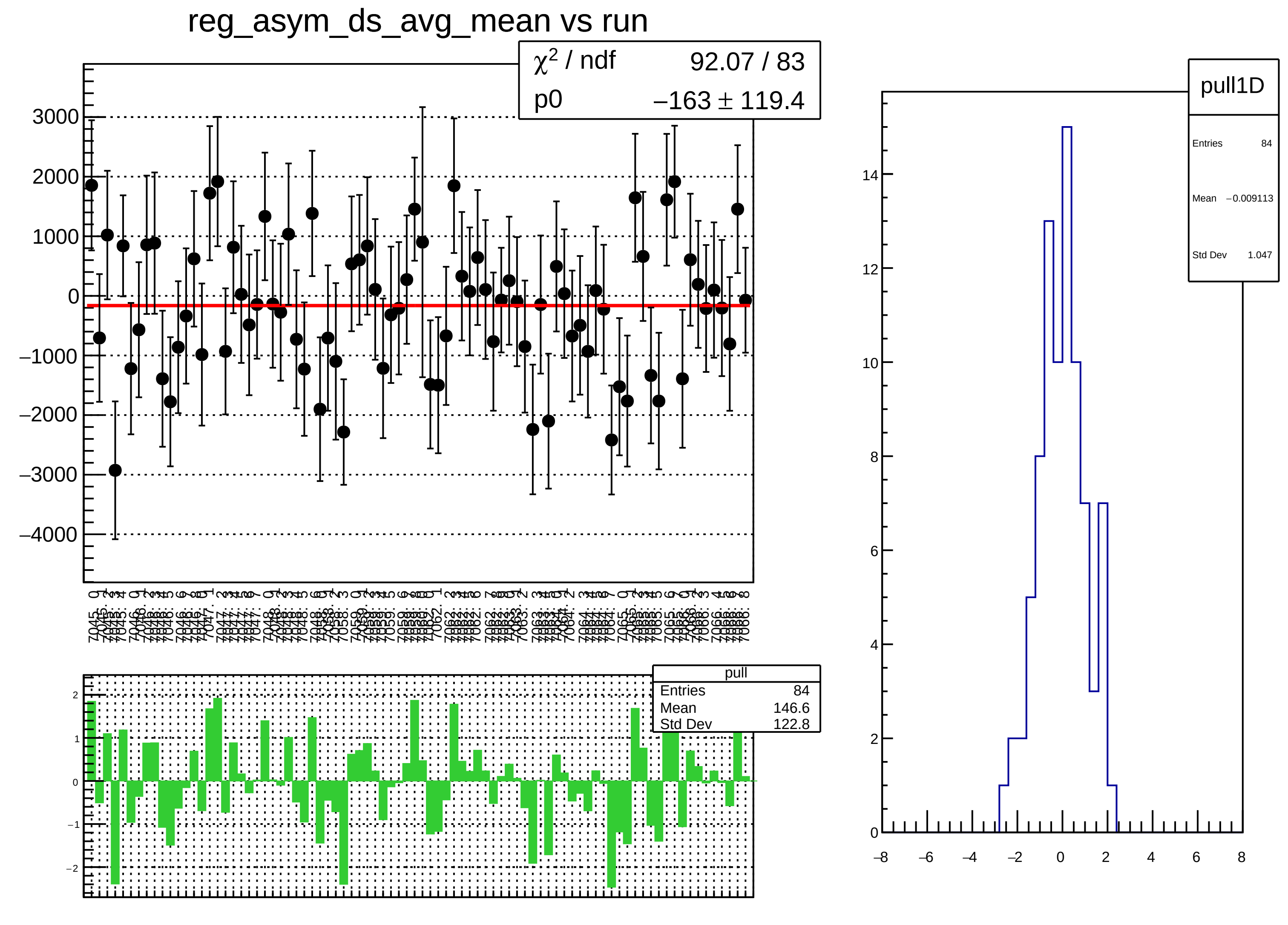

asym_us_dd_correction_mean vs run
$\chi^2$ / ndf 67.08 / 83
p0 −916.5 ± 545.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −176
Std Dev 212.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.0188
Std Dev 0.8934
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

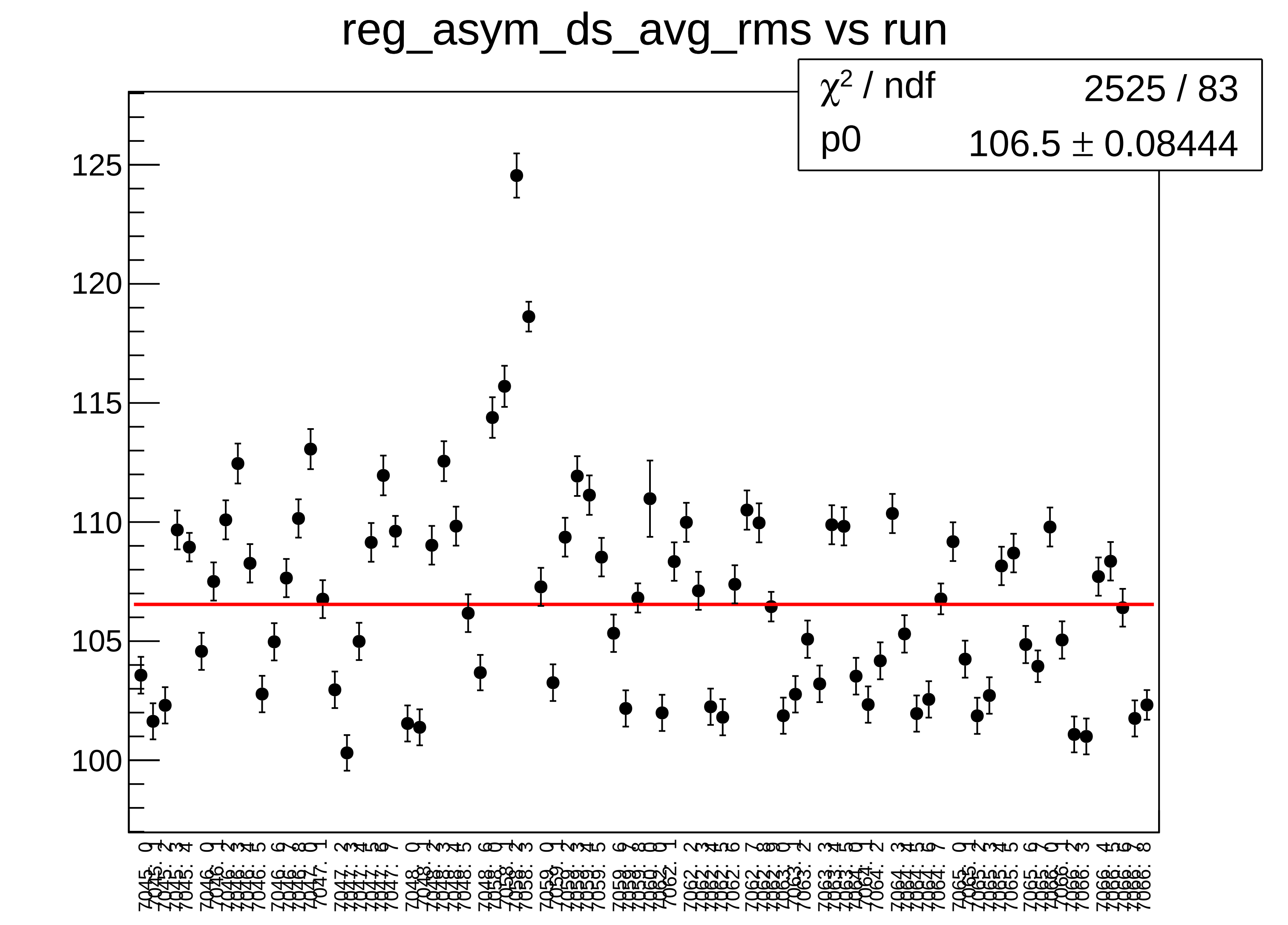

asym_us_dd_correction_rms vs run
$\chi^2$ / ndf 4474 / 83
p0 486.2 ± 0.3855
560
540
520
500
480
460
440



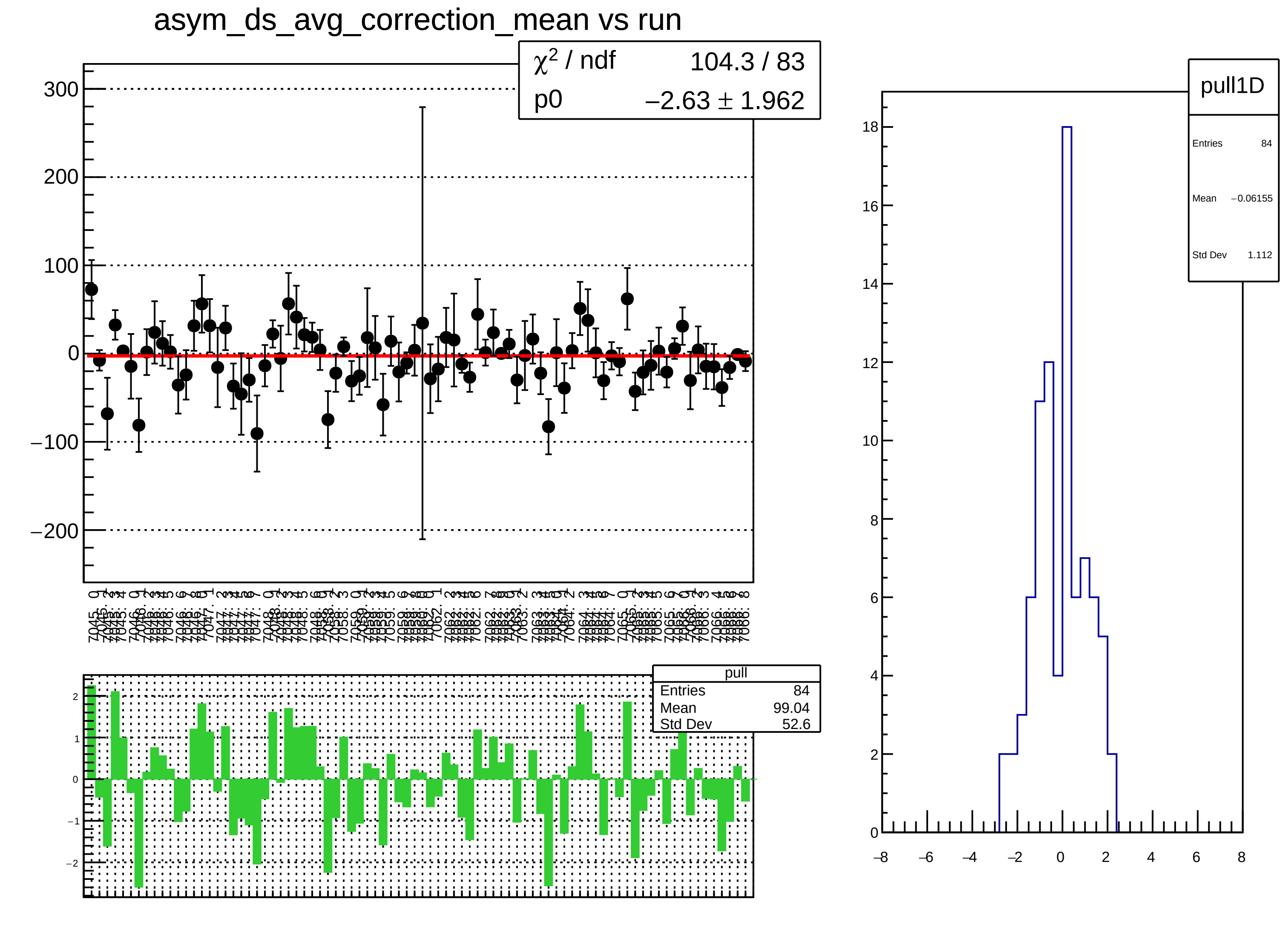
asym_us_dd_mean vs run
χ2 / ndf 84.15 / 83
p0 2772 ± 1031
pull
Entries 84
Mean −97.36
Std Dev 147.1
pull1D
Entries 84
Mean −0.009743
Std Dev 1.001


asym_us_dd_rms vs run
$\chi^2$ / ndf 391 / 83
p0 920.2 ± 0.7288
970
960
950
940
930
920
910
900
890
880

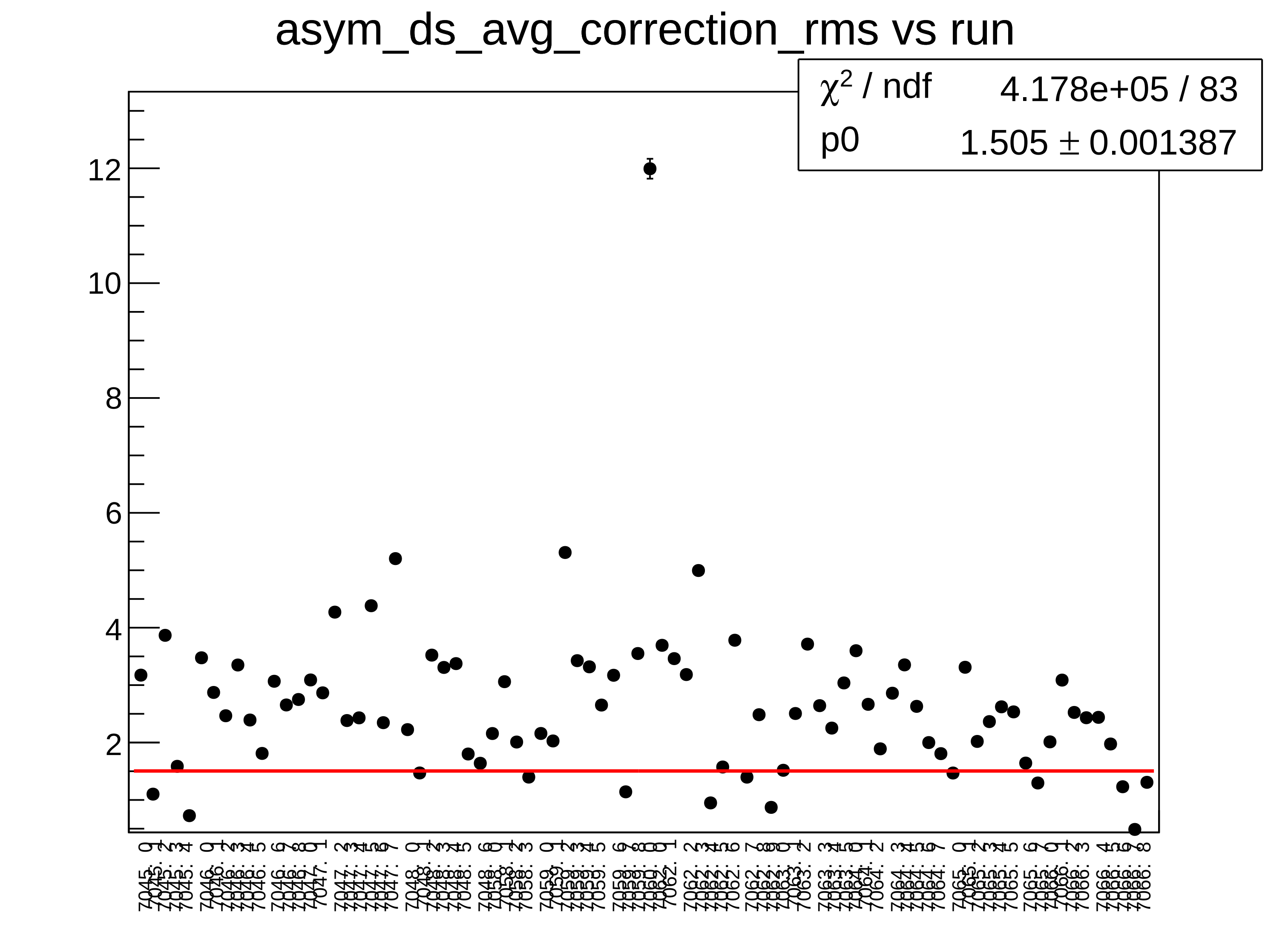

reg_asym_ds_avg_mean vs run
$\chi^2$ / ndf 92.07 / 83
p0 −163 ± 119.4
pull
Entries 84
Mean 146.6
Std Dev 122.8
pull1D
Entries 84
Mean −0.009113
Std Dev 1.047

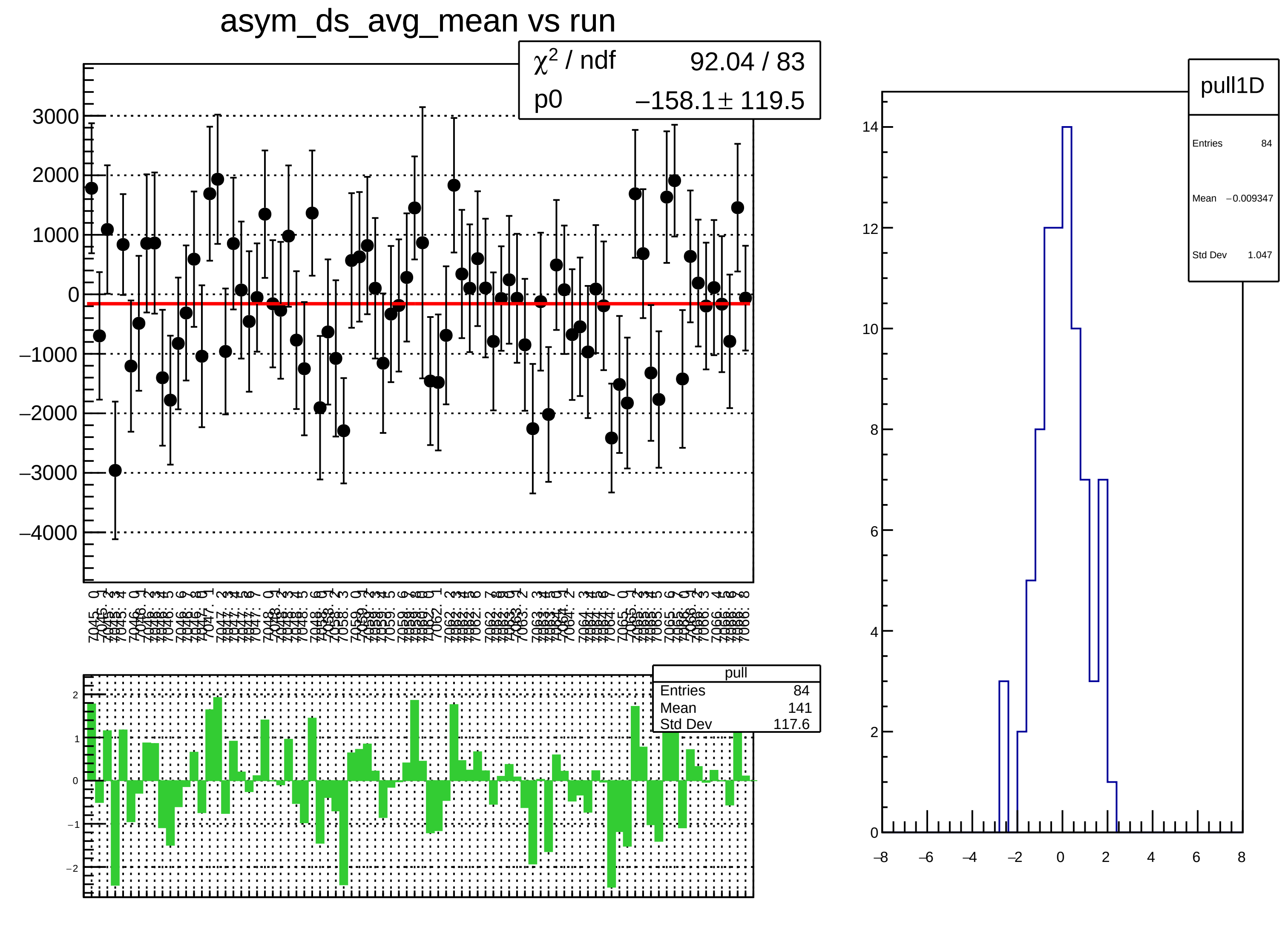


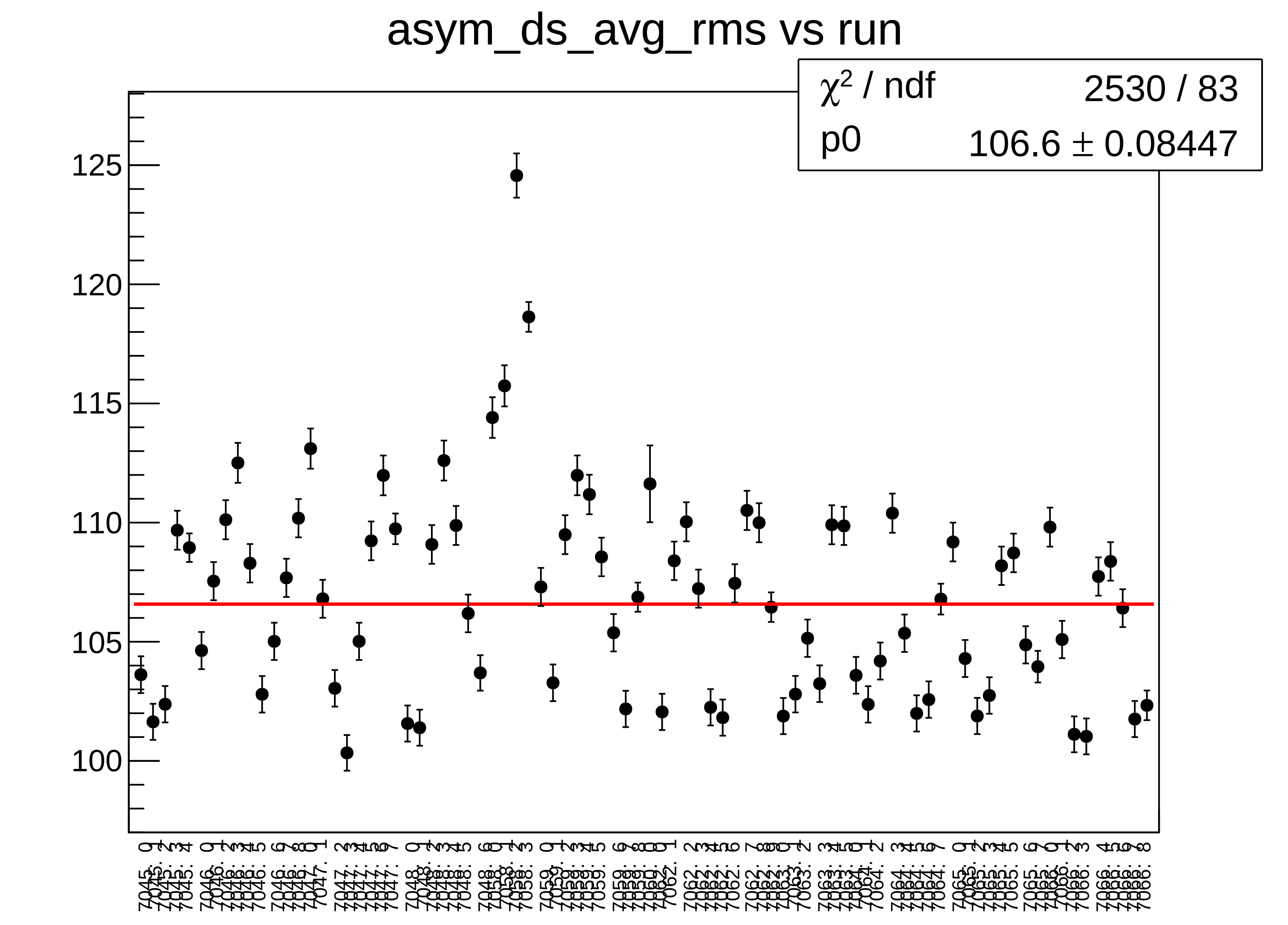
reg_asym_ds_avg_rms vs run
$\chi^2$ / ndf 2525 / 83
p0 106.5 ± 0.08444
125
120
115
110
105
100



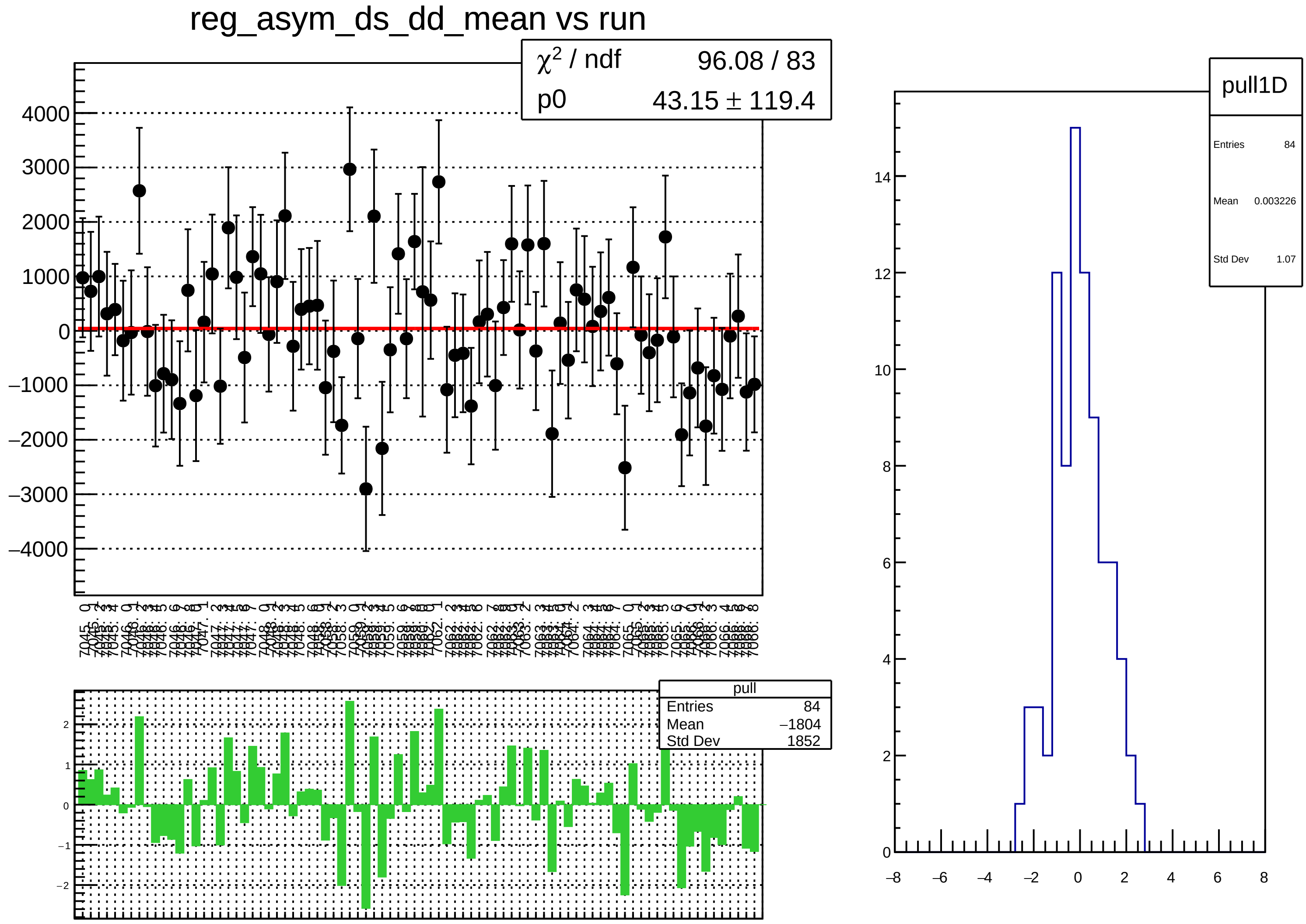
asym_ds_avg_correction_mean vs run
χ2 / ndf 104.3 / 83
p0 −2.63 ± 1.962
pull
Entries 84
Mean 99.04
Std Dev 52.6
pull1D
Entries 84
Mean −0.06155
Std Dev 1.112


asym_ds_avg_correction_rms vs run
$\chi^2$ / ndf 4.178e+05 / 83
p0 1.505 ± 0.001387
12
10
8
6
4
2

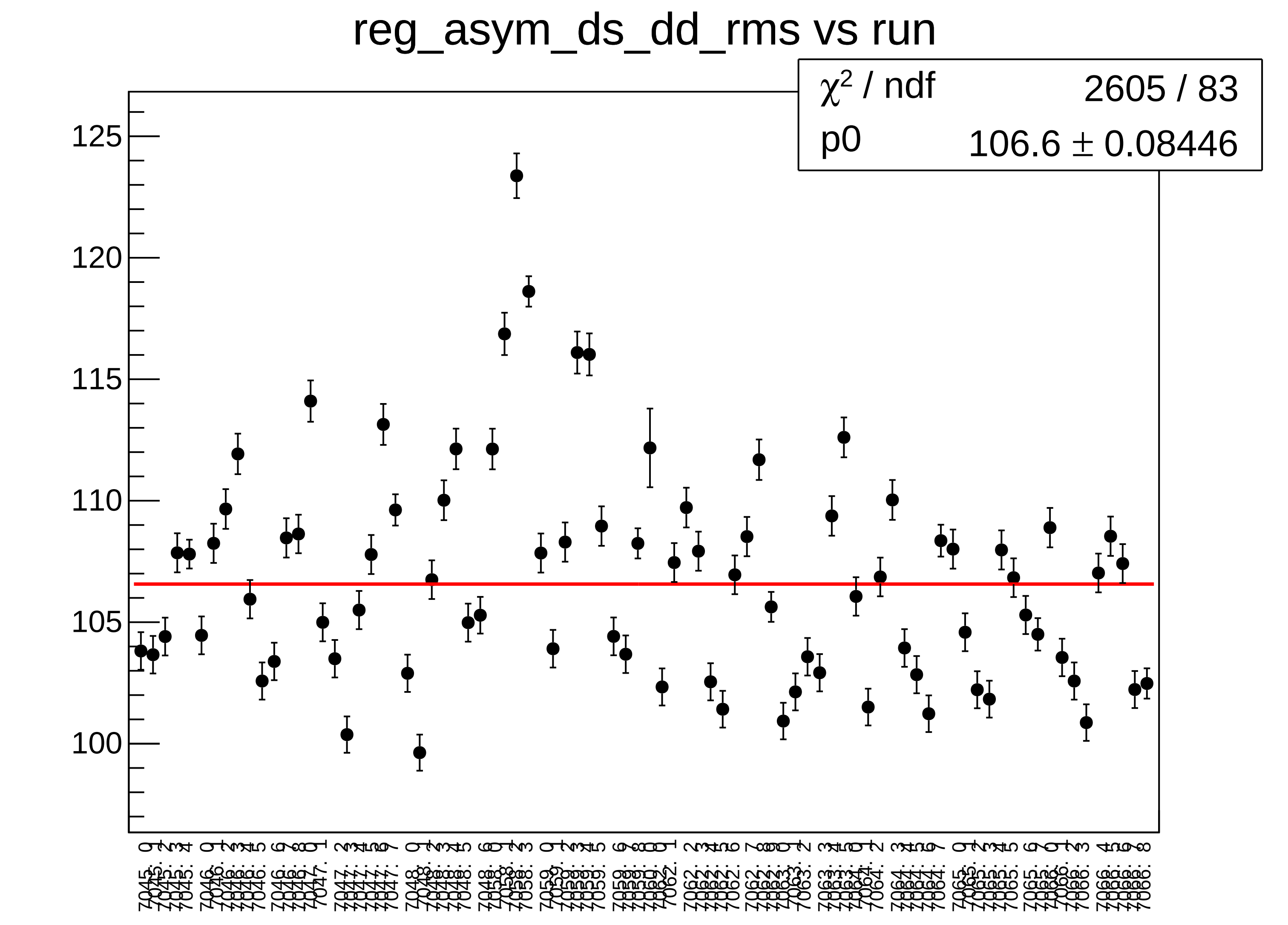

asym_ds_avg_mean vs run
$\chi^2$ / ndf 92.04 / 83
p0 −158.1 ± 119.5
pull
Entries 84
Mean 141
Std Dev 117.6
pull1D
Entries 84
Mean −0.009347
Std Dev 1.047

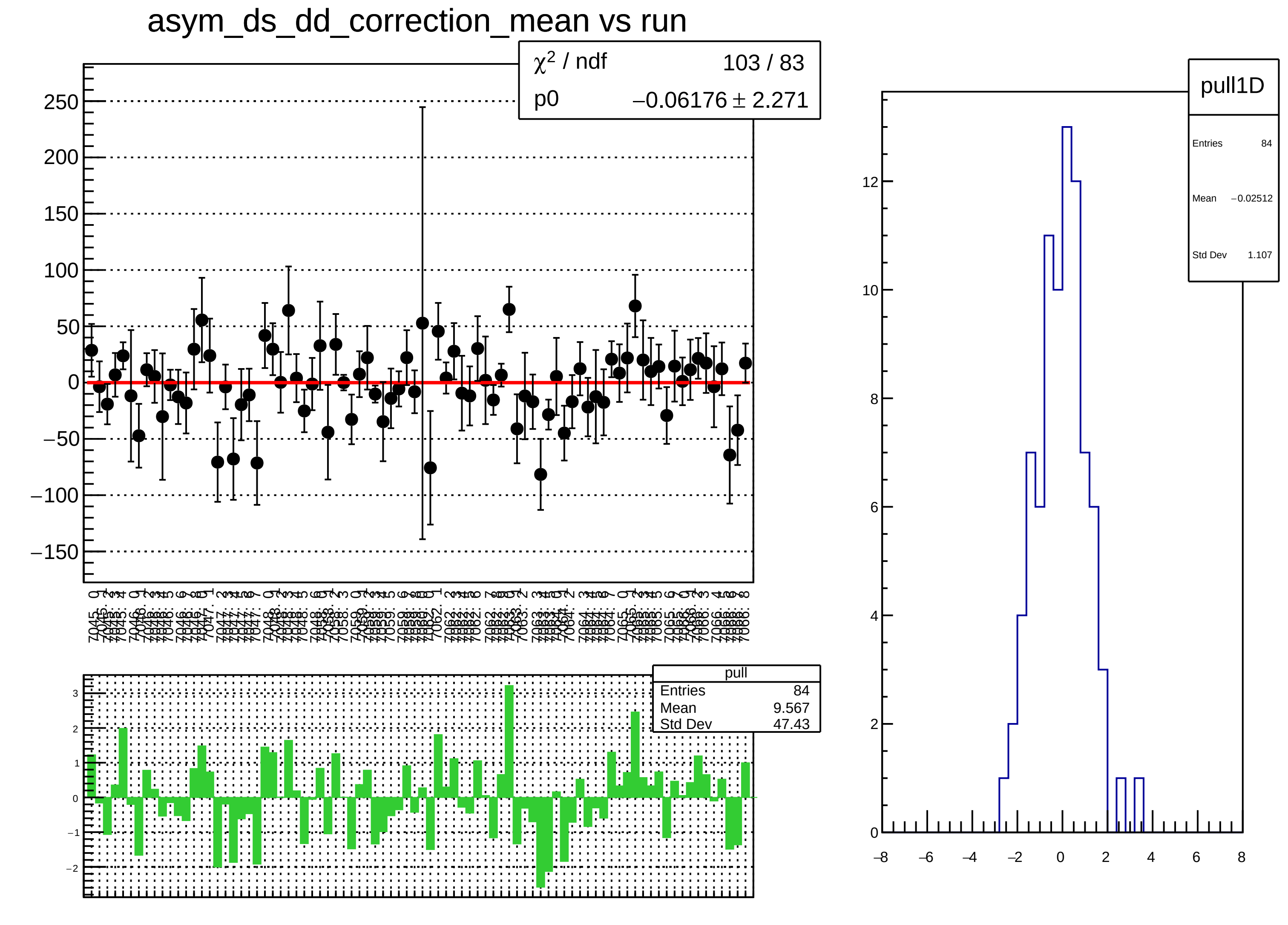


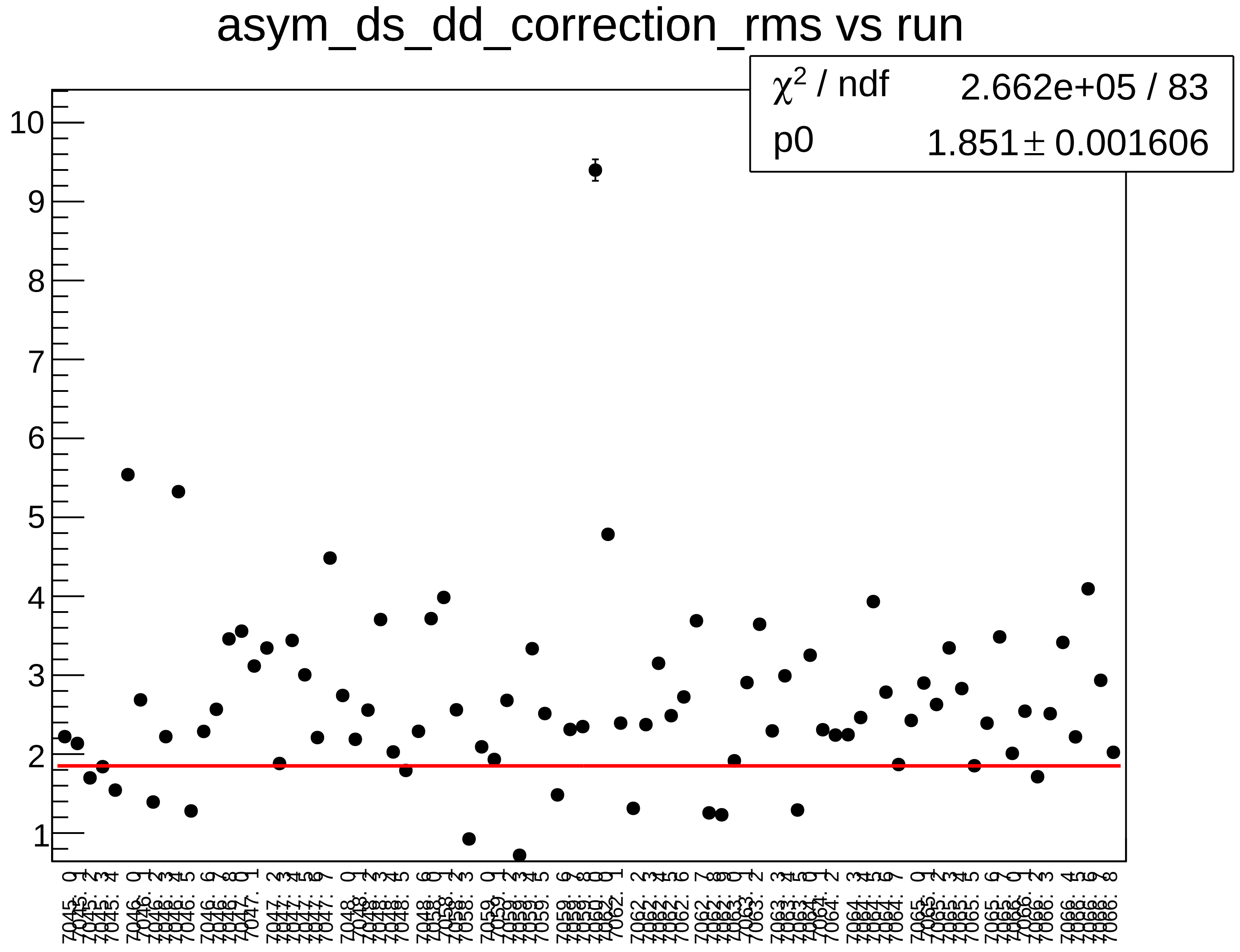
asym_ds_avg_rms vs run
$\chi^2$ / ndf 2530 / 83
p0 106.6 ± 0.08447
125
120
115
110
105
100

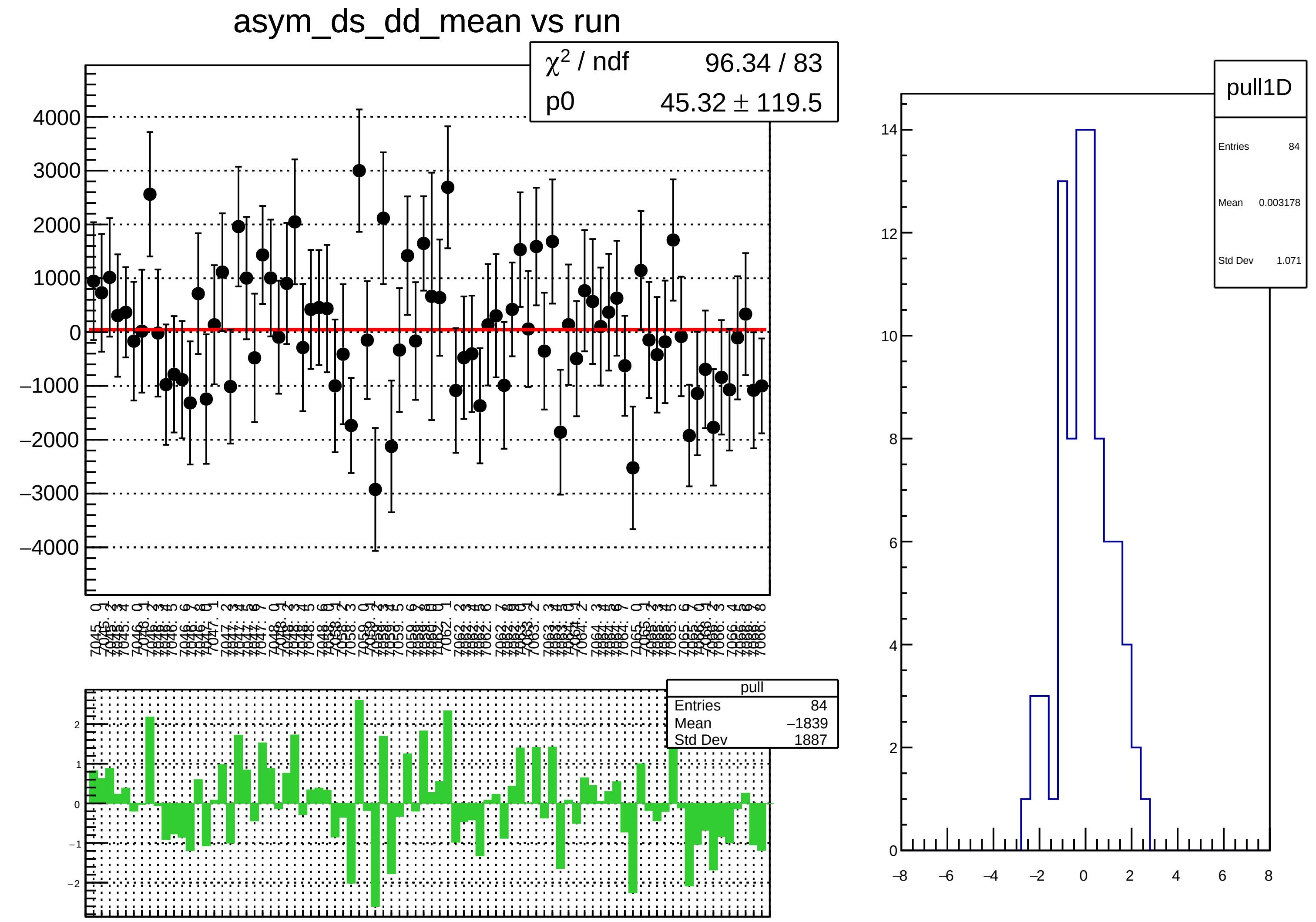


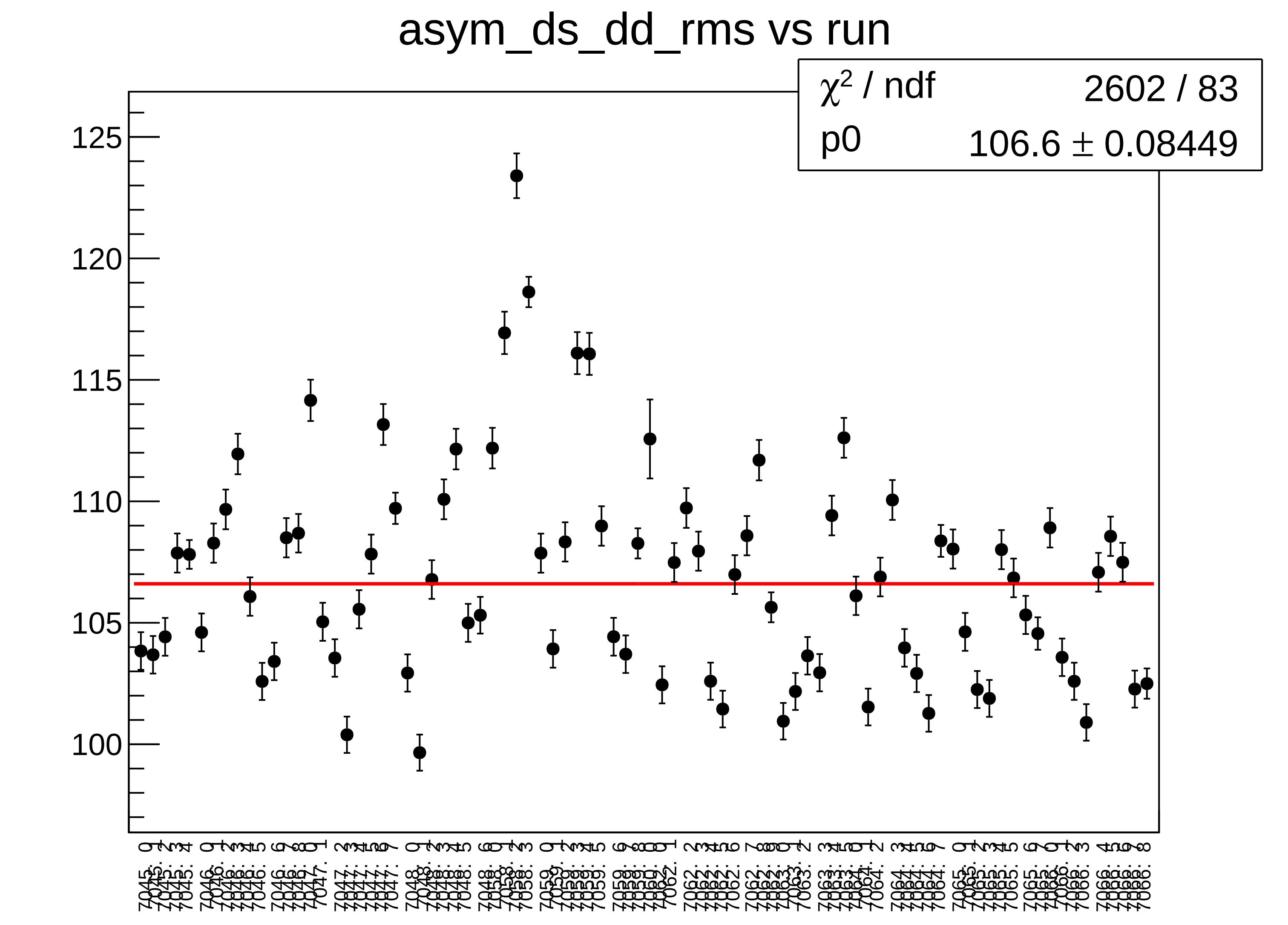
reg_asym_ds_dd_mean vs run
χ2 / ndf 96.08 / 83
p0 43.15 ± 119.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 84
Mean −1804
Std Dev 1852
pull1D
Entries 84
Mean 0.003226
Std Dev 1.07


reg_asym_ds_dd_rms vs run
$\chi^2$ / ndf 2605 / 83
p0 106.6 ± 0.08446
125
120
115
110
105
100

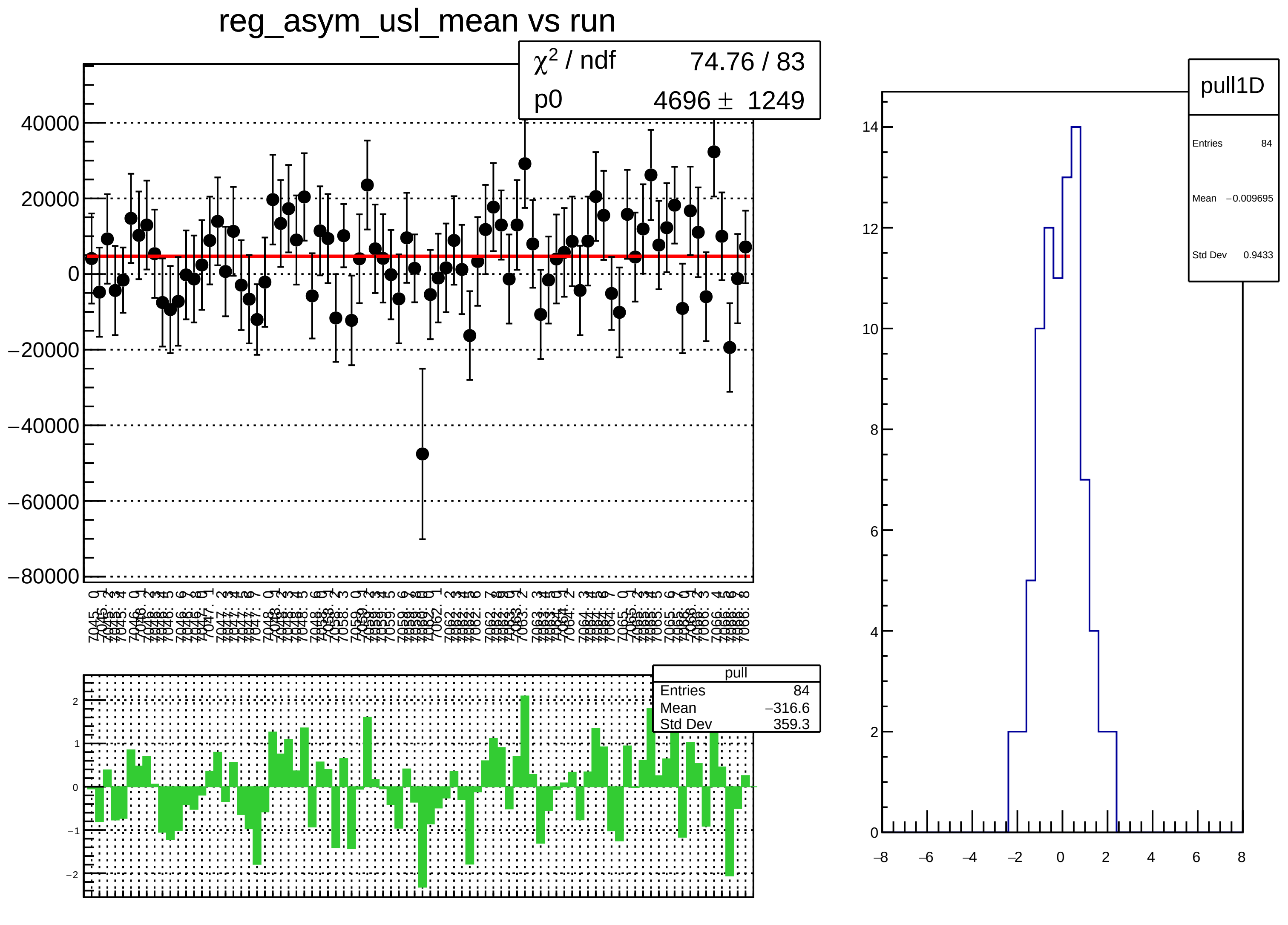

asym_ds_dd_correction_mean vs run
$\chi^2$ / ndf 103 / 83
p0 −0.06176 ± 2.271
pull
Entries 84
Mean 9.567
Std Dev 47.43
pull1D
Entries 84
Mean −0.02512
Std Dev 1.107


asym_ds_dd_correction_rms vs run
$\chi^2$ / ndf 2.662e+05 / 83
p0 1.851 ± 0.001606

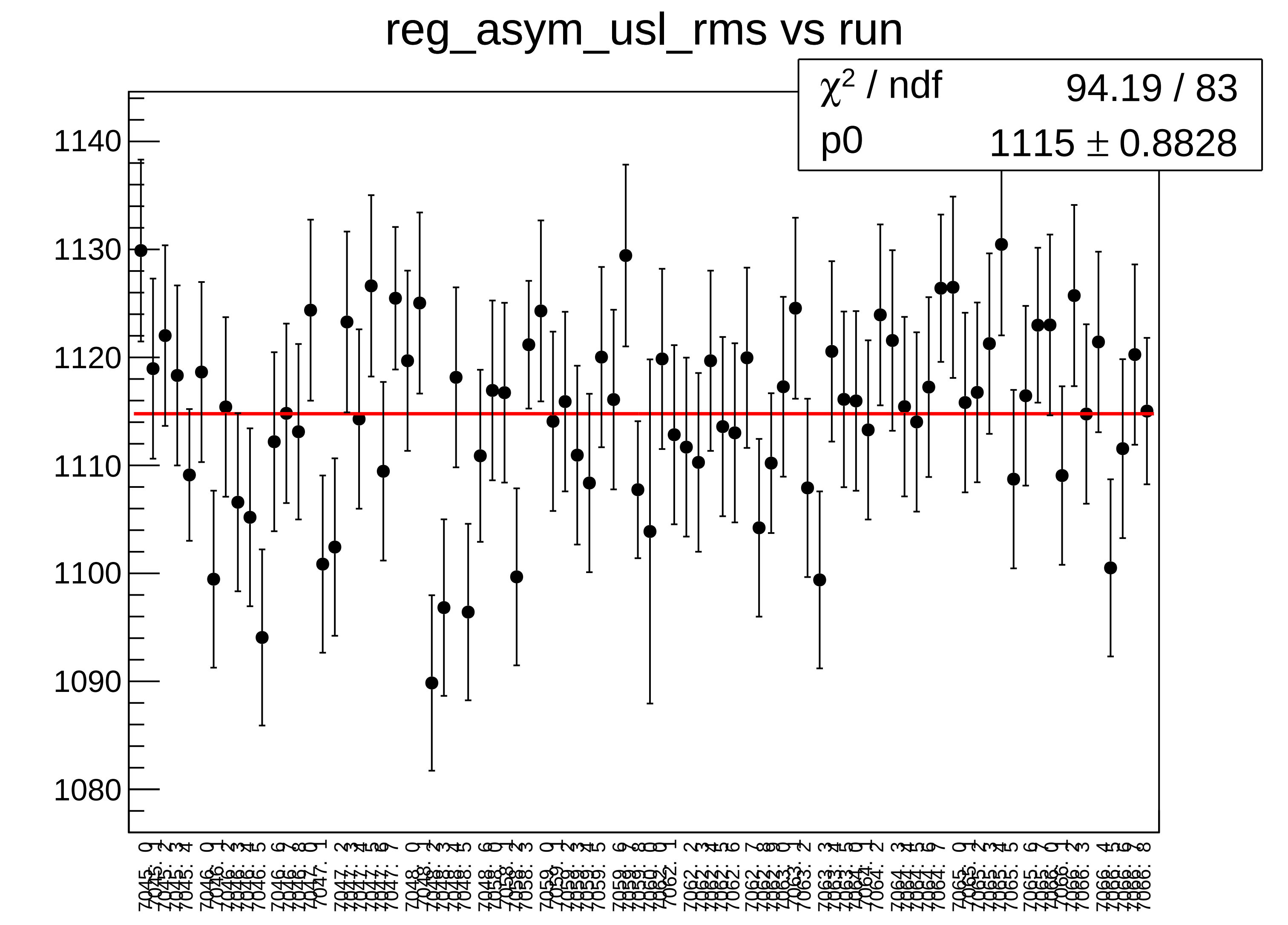

asym_ds_dd_mean vs run
$\chi^2$ / ndf 96.34 / 83
p0 45.32 ± 119.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 84
Mean −1839
Std Dev 1887
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.003178
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



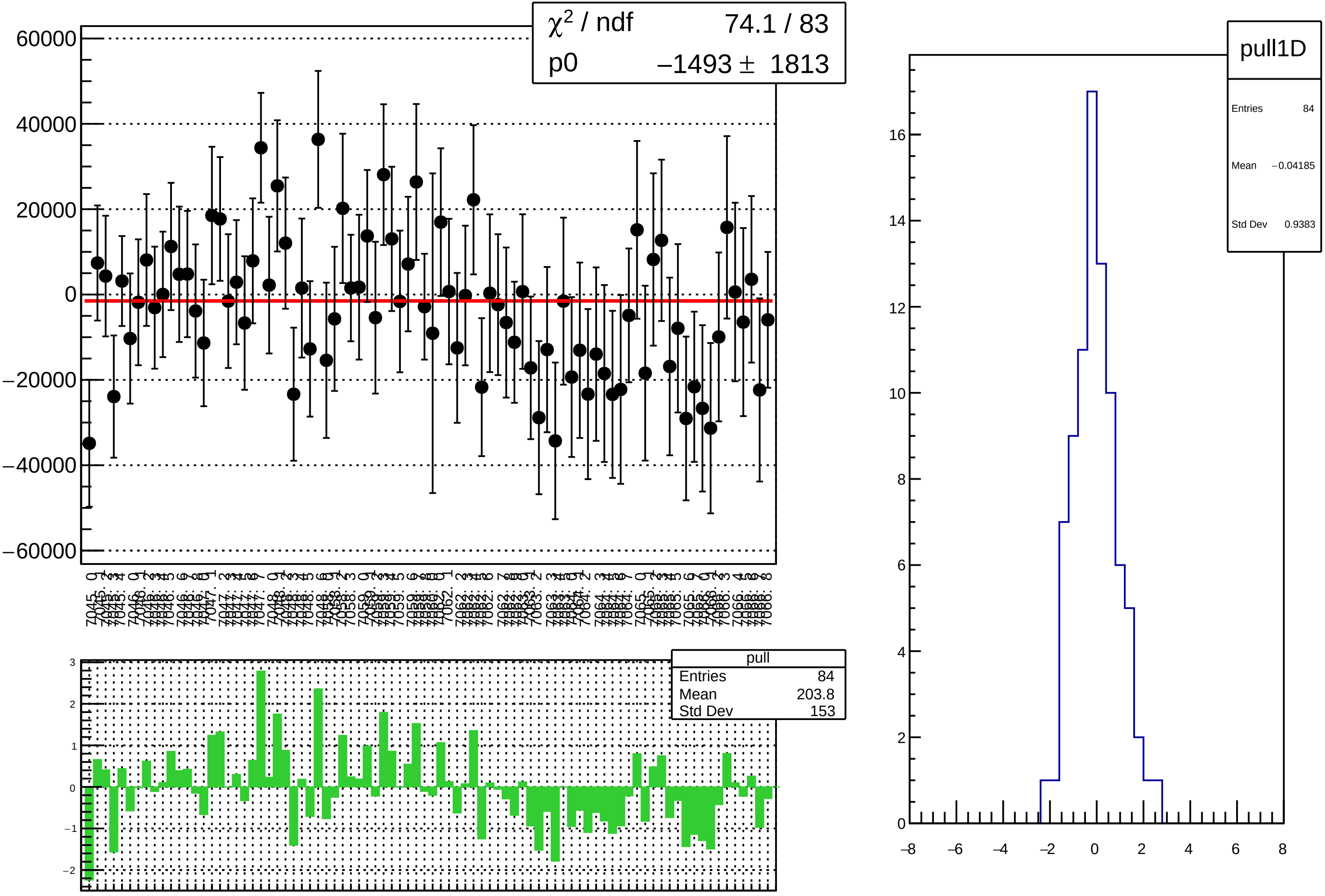
asym_ds_dd_rms vs run
χ2 / ndf 2602 / 83
p0 106.6 ± 0.08449
125
120
115
110
105
100

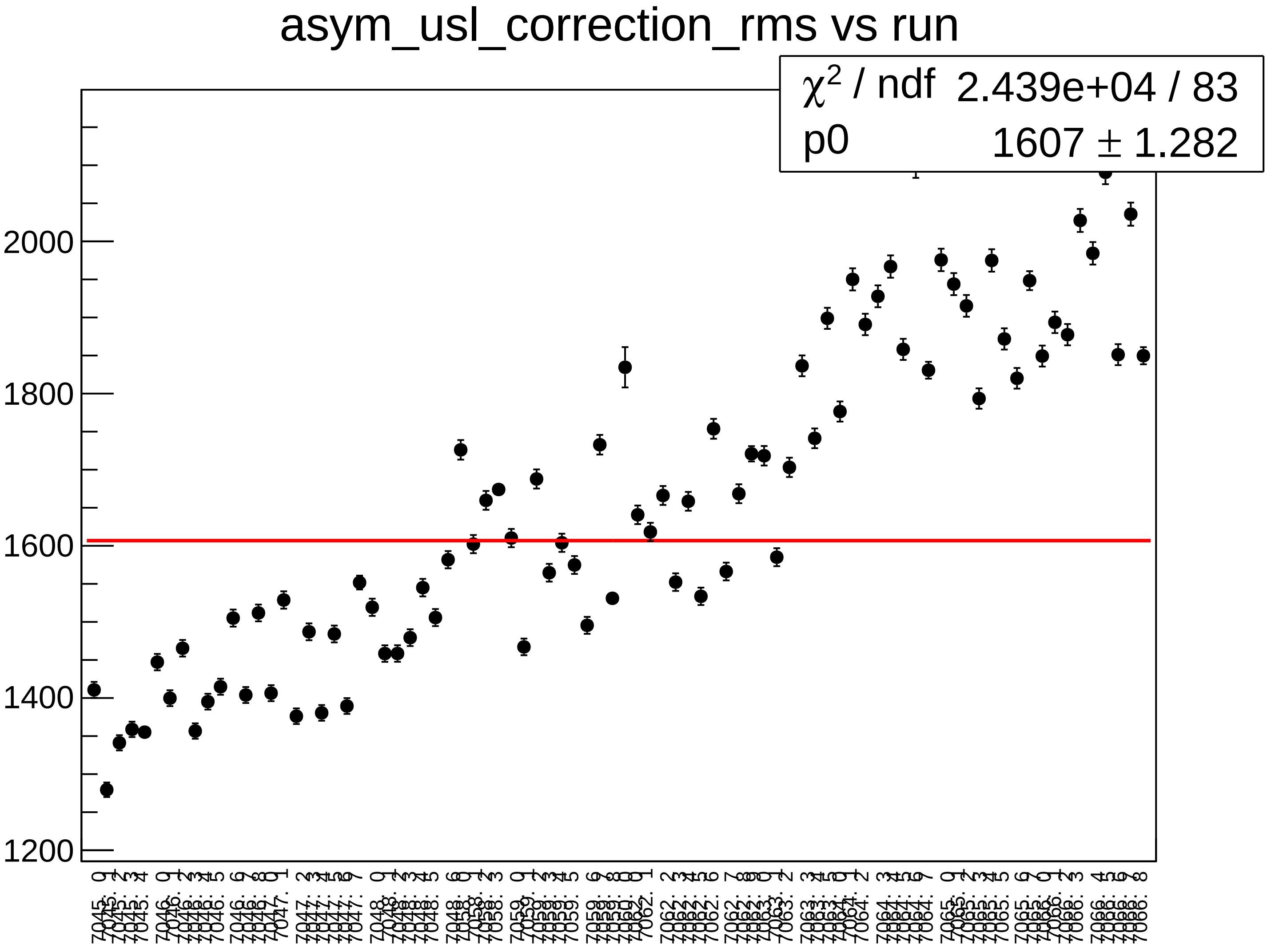


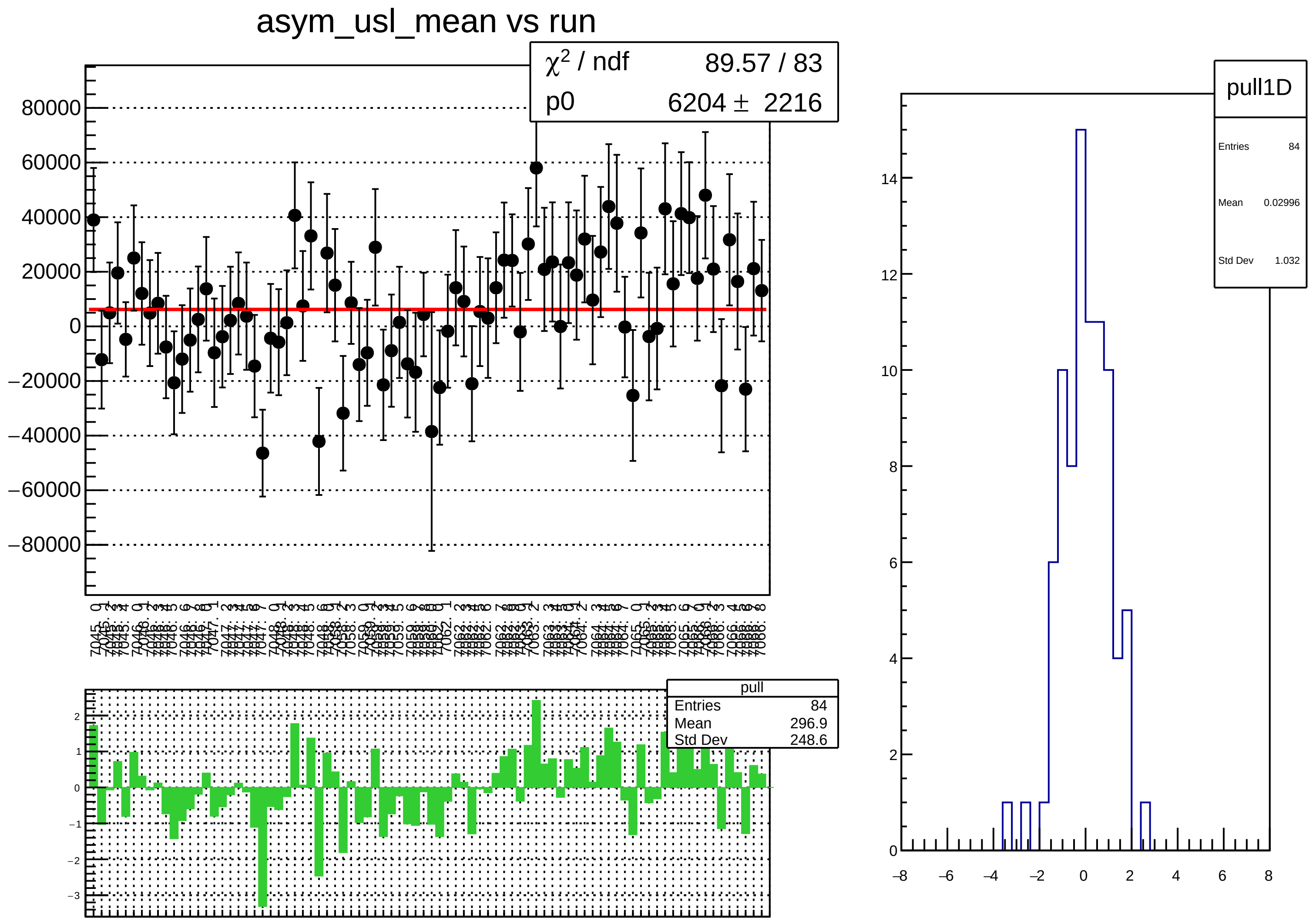
reg_asym_usl_mean vs run
$\chi^2$ / ndf 74.76 / 83
p0 4696 ± 1249
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −316.6
Std Dev 359.3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.009695
Std Dev 0.9433
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

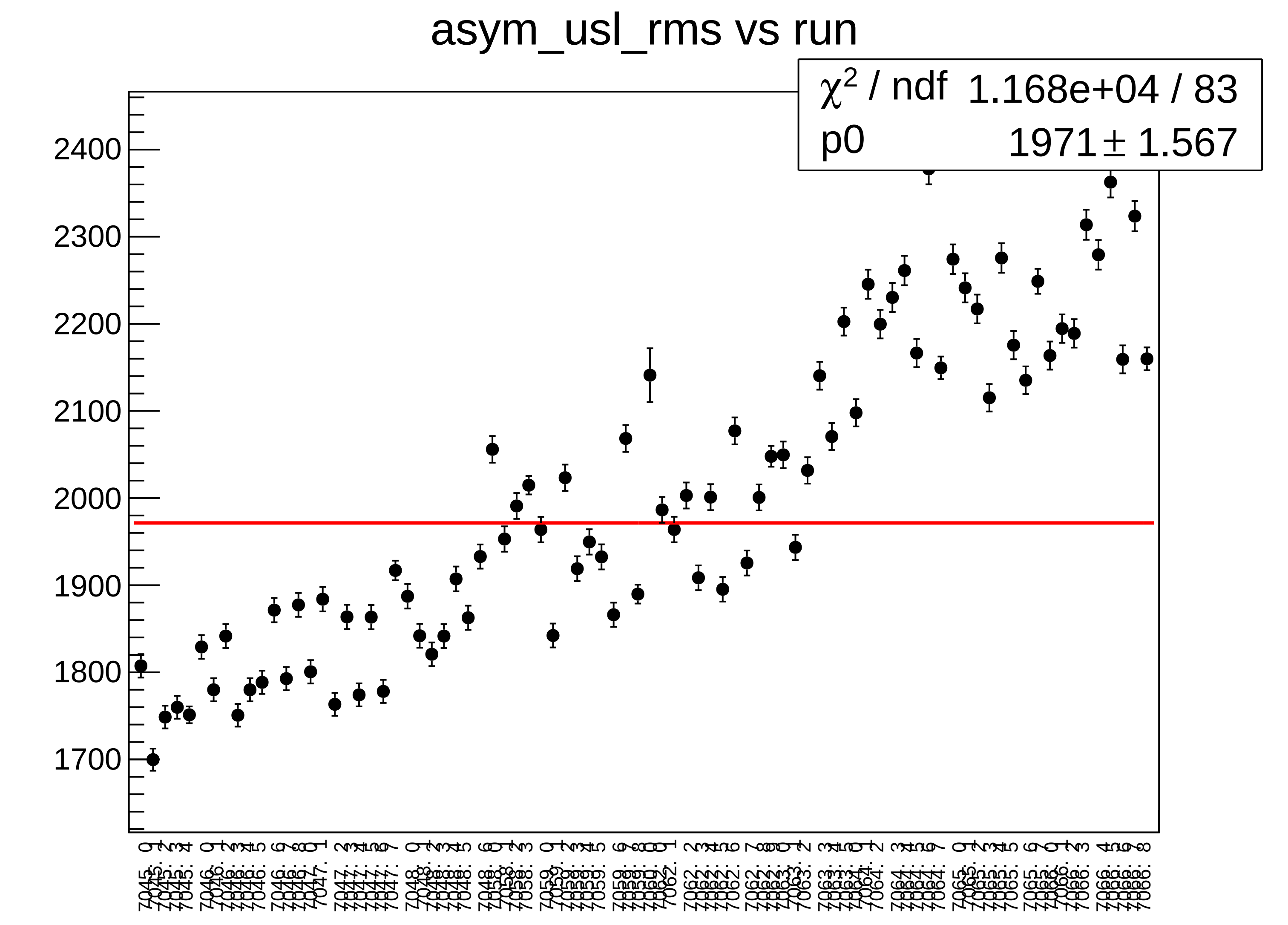

reg_asym_usl_rms vs run
χ2 / ndf 94.19 / 83
p0 1115 ± 0.8828
1140
1130
1120
1110
1100
1090
1080

asym_usl_correction_mean vs run

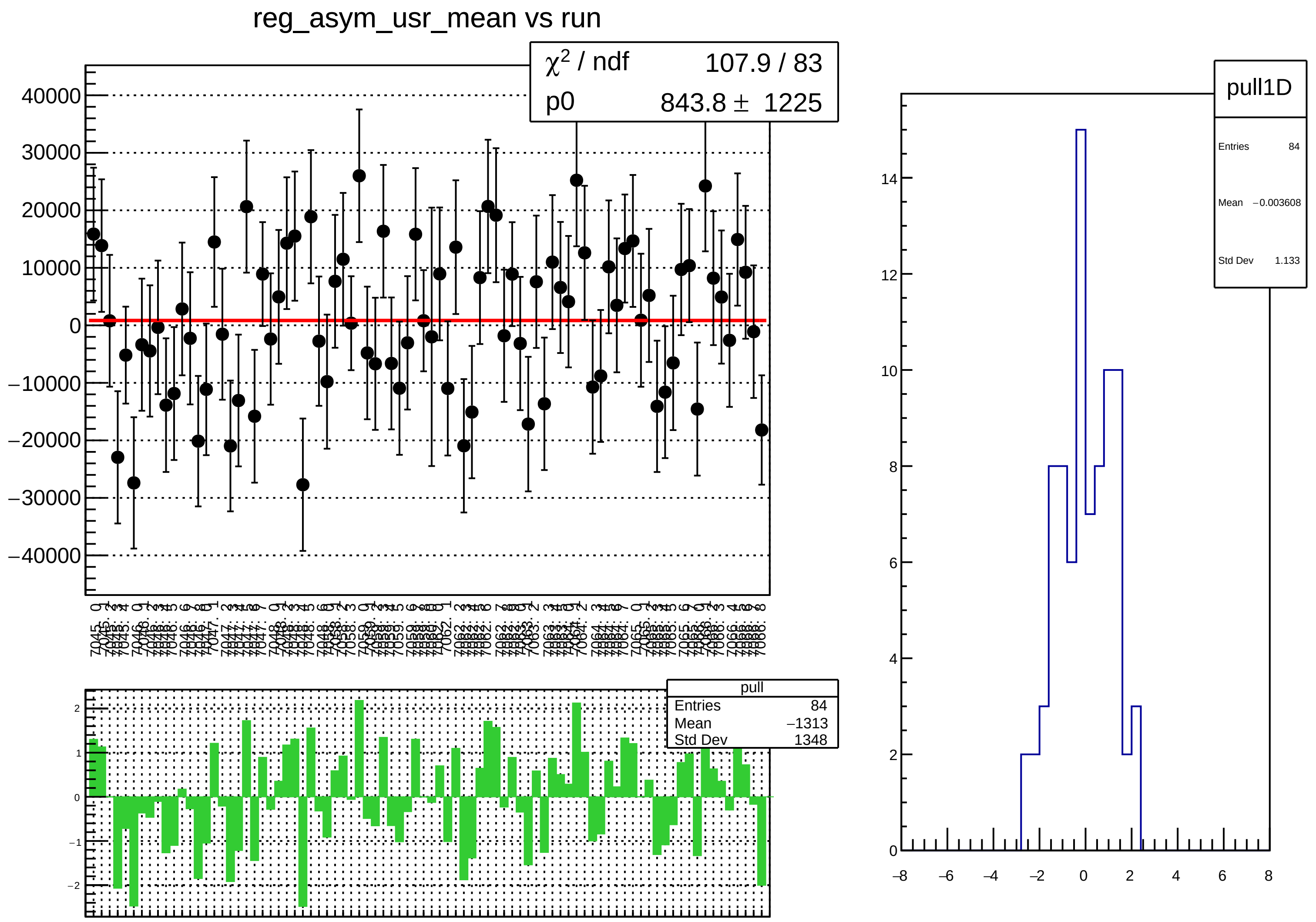



asym_usl_correction_rms vs run
$\chi^2$ / ndf 2.439e+04 / 83
p0 1607 ± 1.282
2000
1800
1600
1400
1200


asym_usl_mean vs run
$\chi^2$ / ndf 89.57 / 83
p0 6204 ± 2216
pull
Entries 84
Mean 296.9
Std Dev 248.6
pull1D
Entries 84
Mean 0.02996
Std Dev 1.032

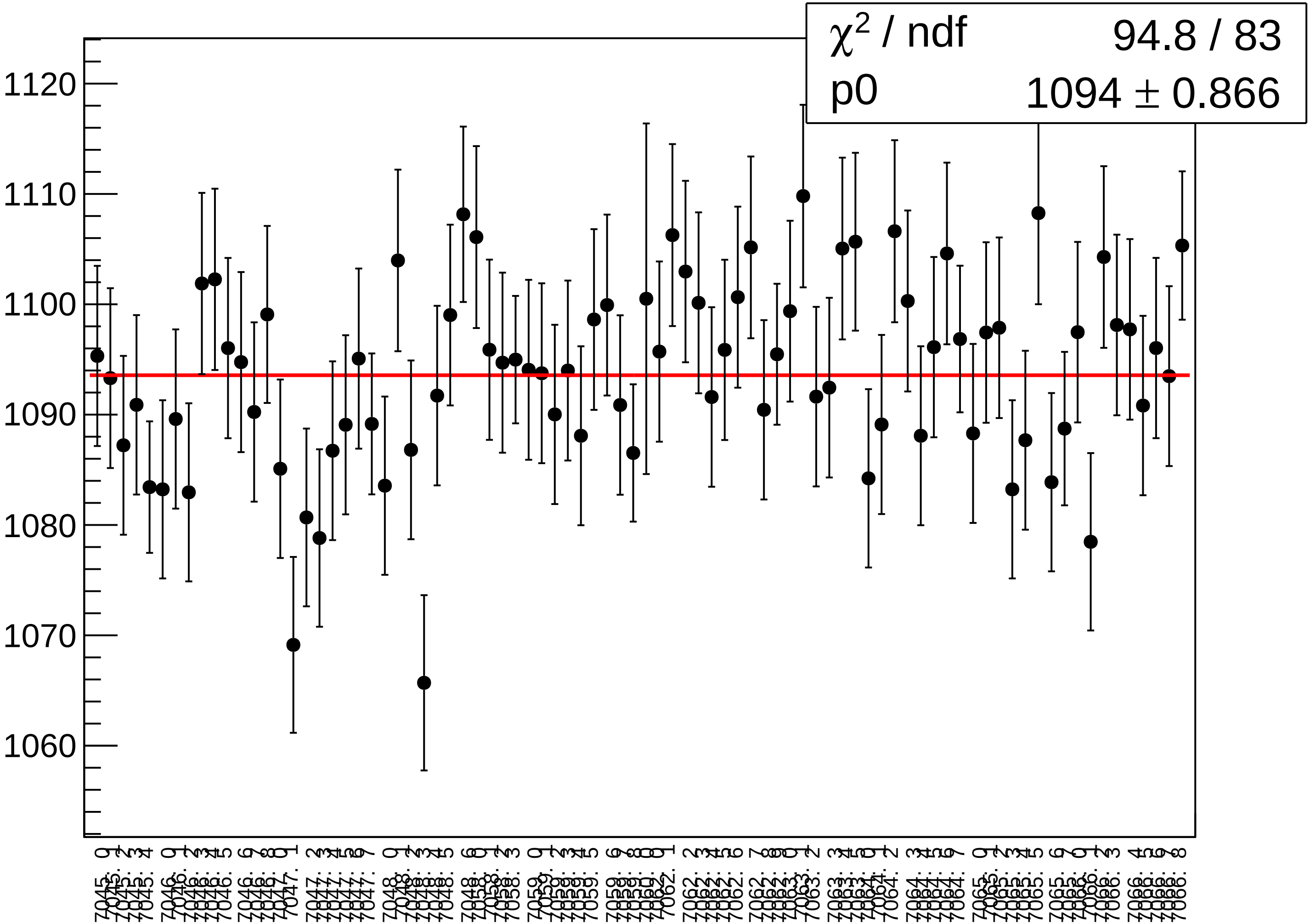


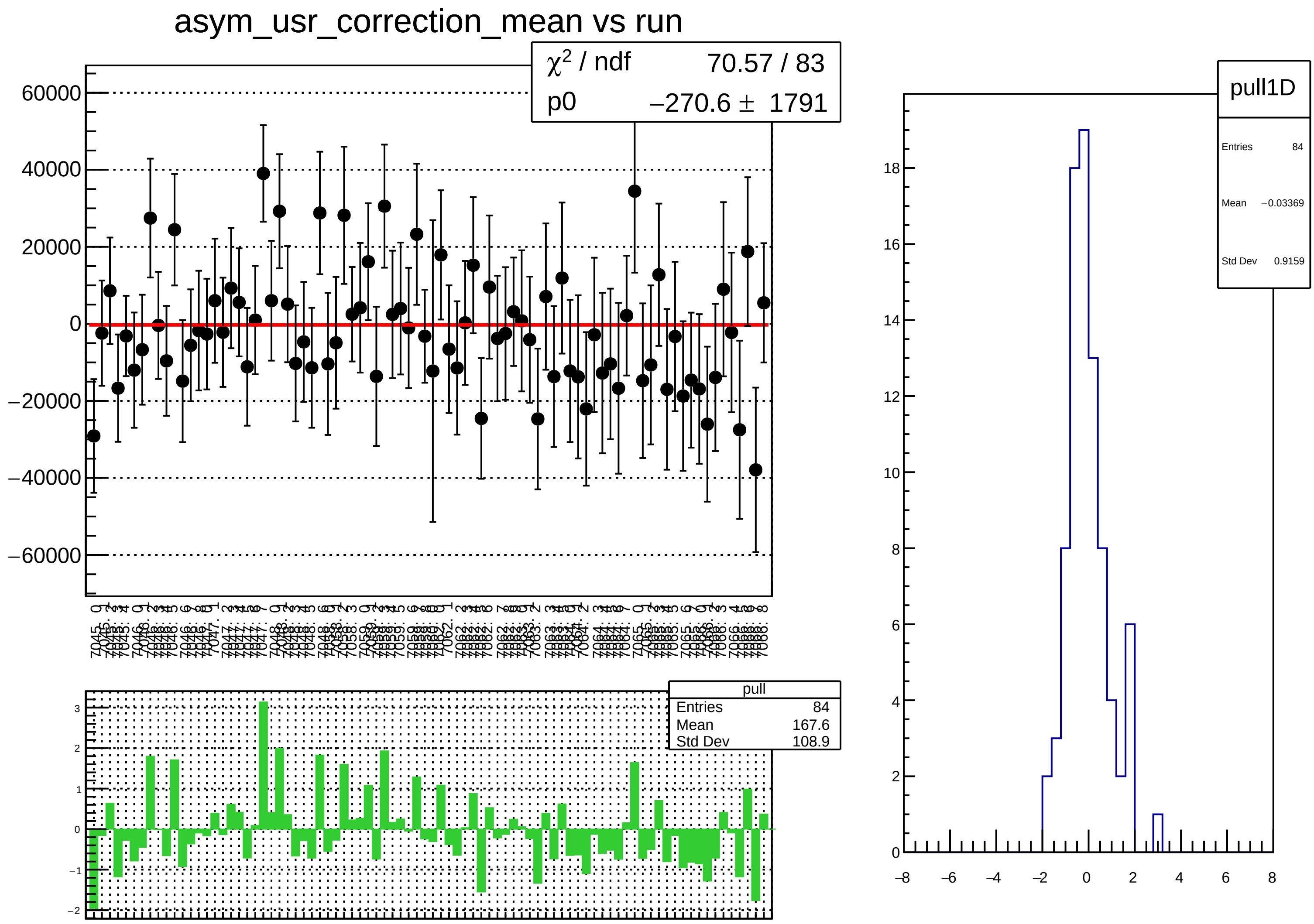
asym_usl_rms vs run
$\chi^2$ / ndf 1.168e+04 / 83
p0 1971 ± 1.567
2400
2300
2200
2100
2000
1900
1800
1700



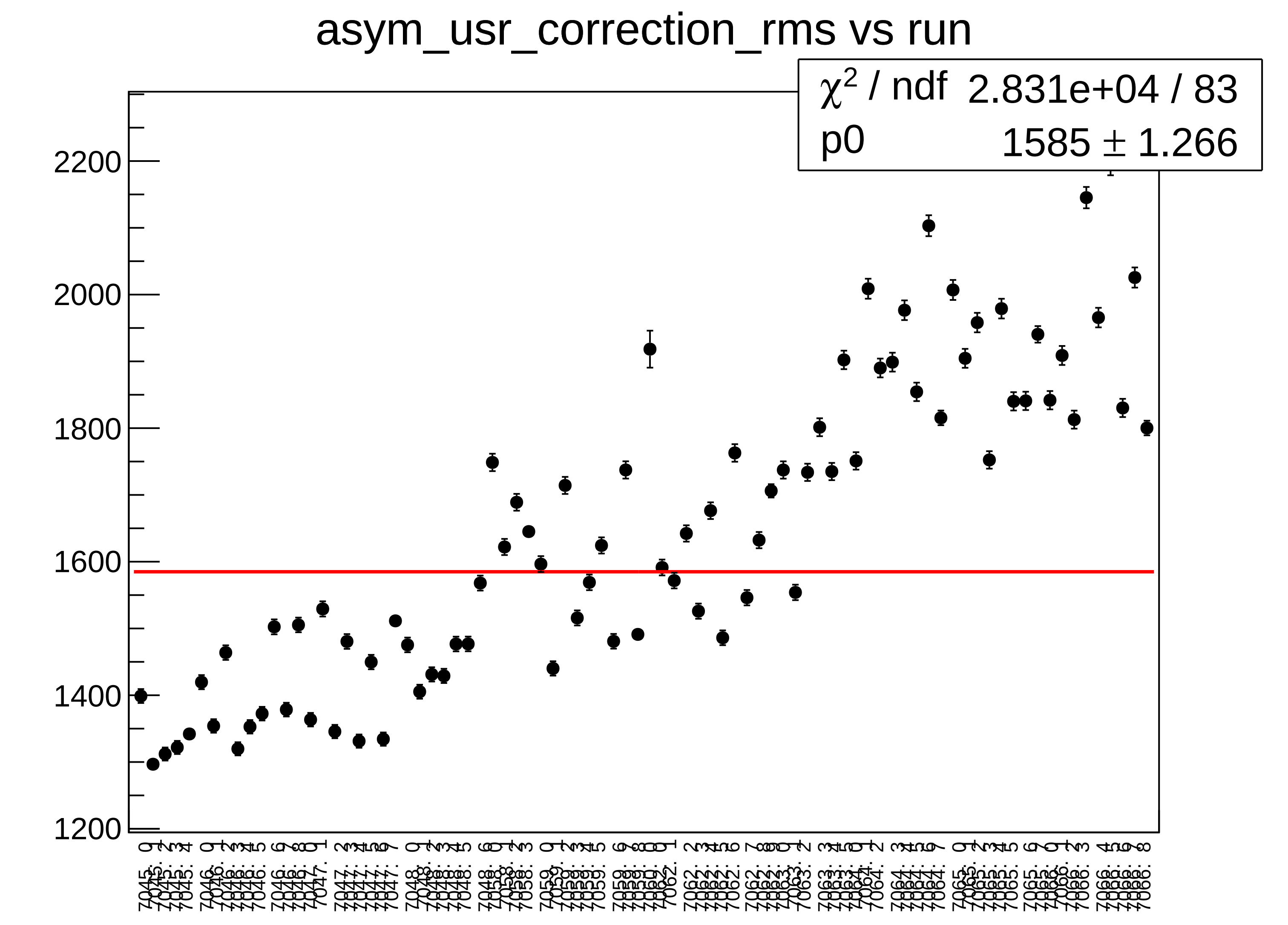
reg_asym_usr_mean vs run
$\chi^2$ / ndf 107.9 / 83
p0 843.8 ± 1225
pull
Entries 84
Mean −1313
Std Dev 1348
pull1D
Entries 84
Mean −0.003608
Std Dev 1.133

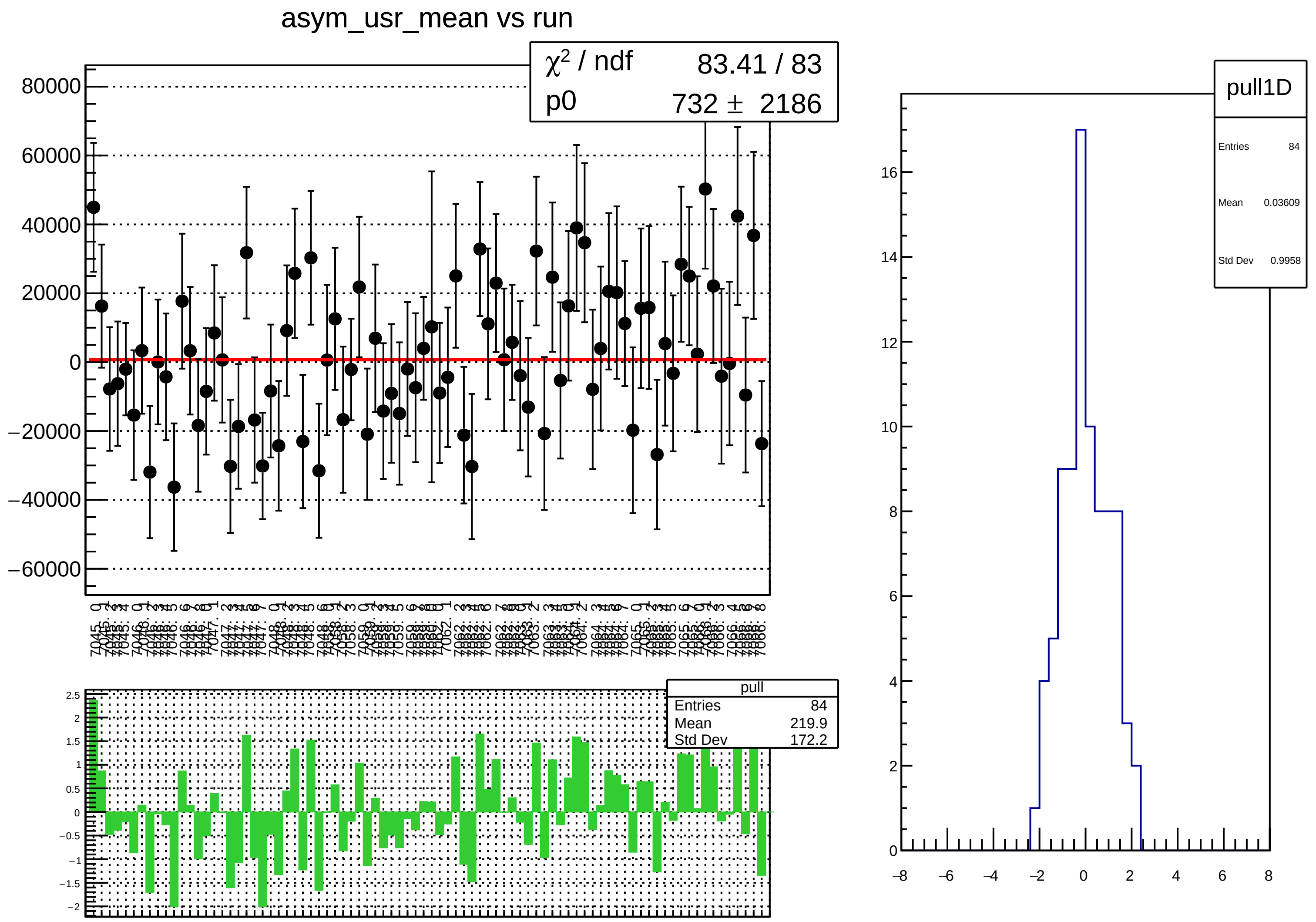
reg_asym_usr_rms vs run



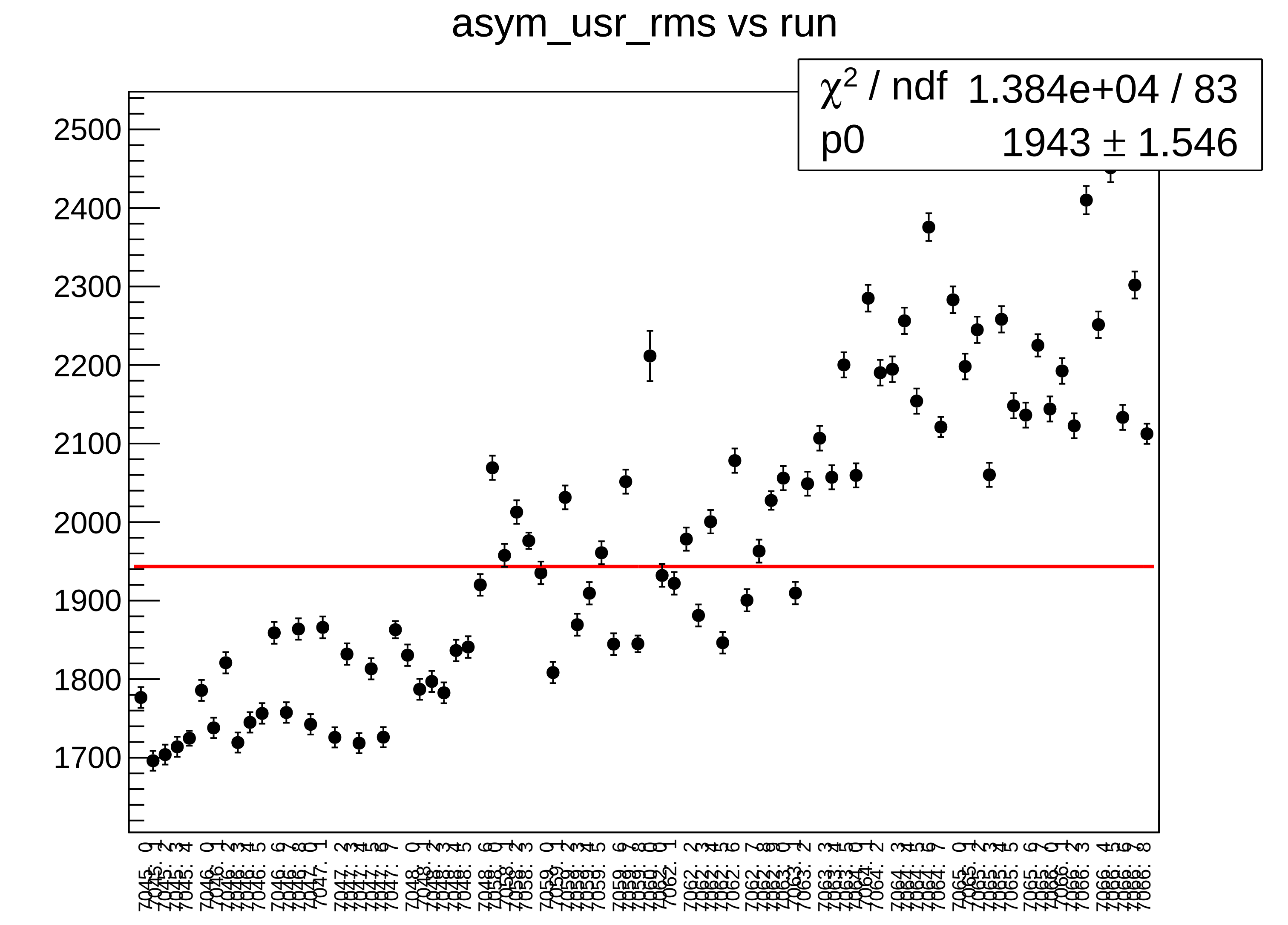


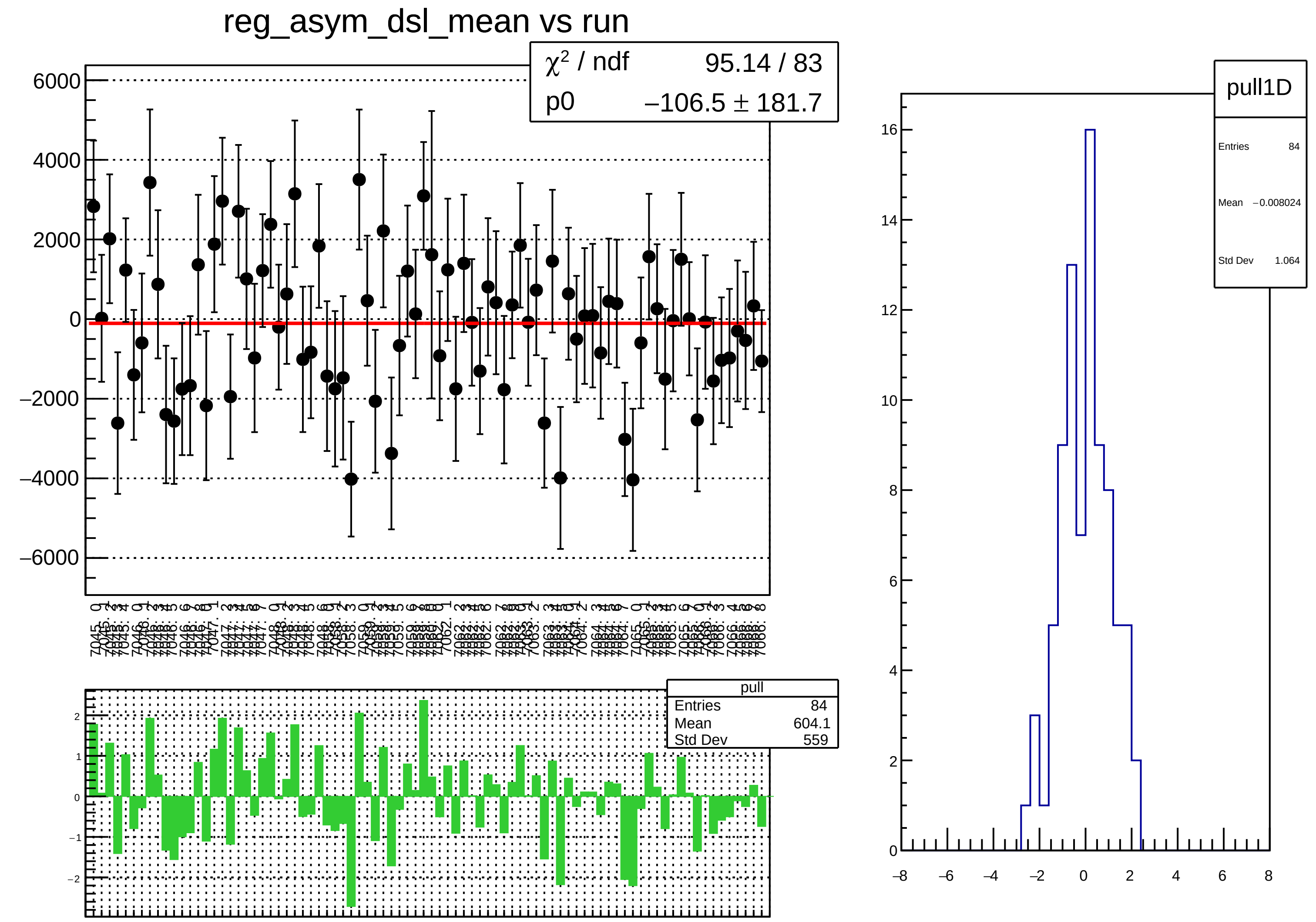
asym_usr_correction_mean vs run
$\chi^2$ / ndf 70.57 / 83
p0 −270.6 ± 1791
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 167.6
Std Dev 108.9
pull1D
Entries 84
Mean −0.03369
Std Dev 0.9159

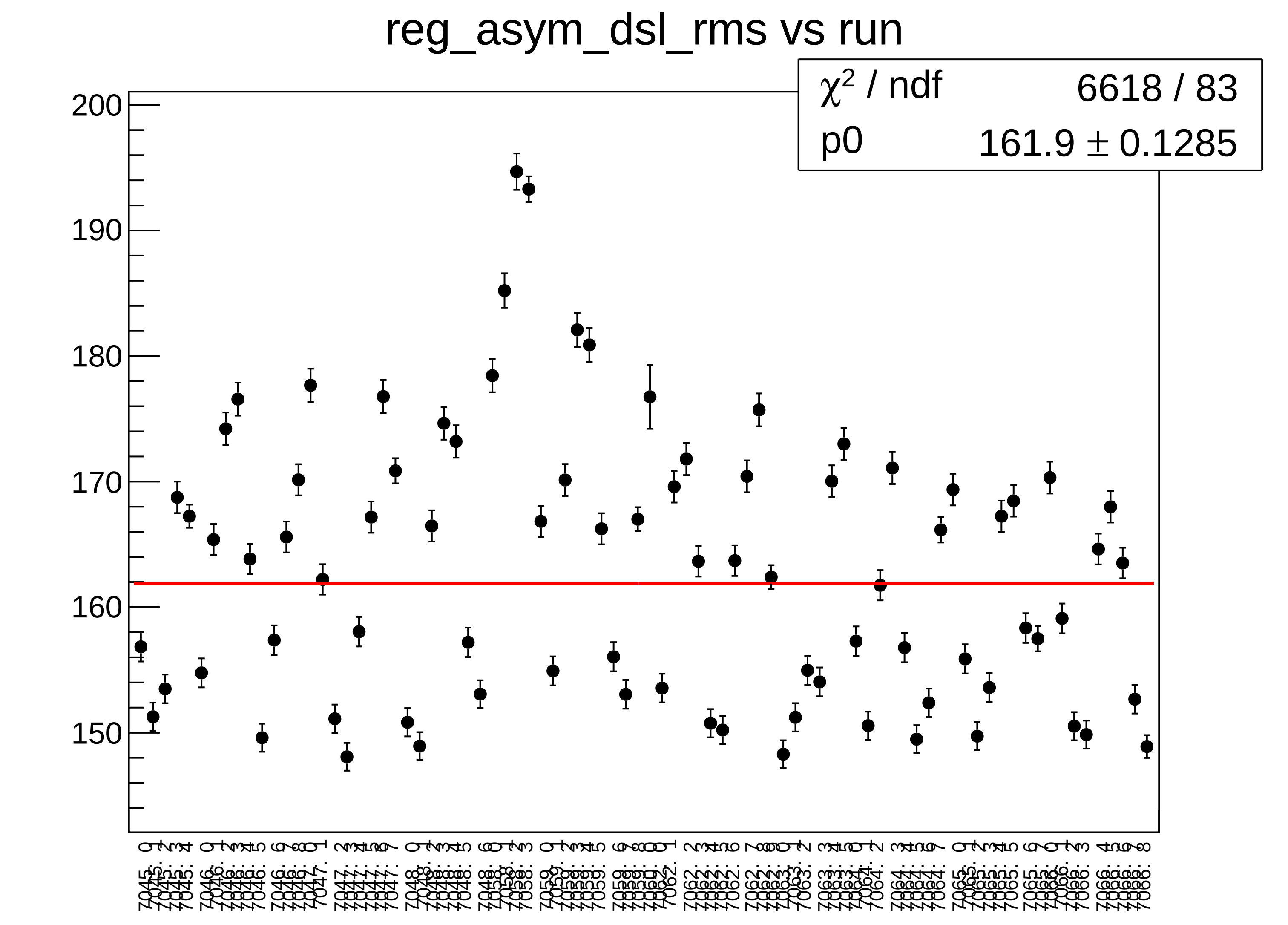

asym_usr_correction_rms vs run
$\chi^2$ / ndf 2.831e+04 / 83
p0 1585 ± 1.266



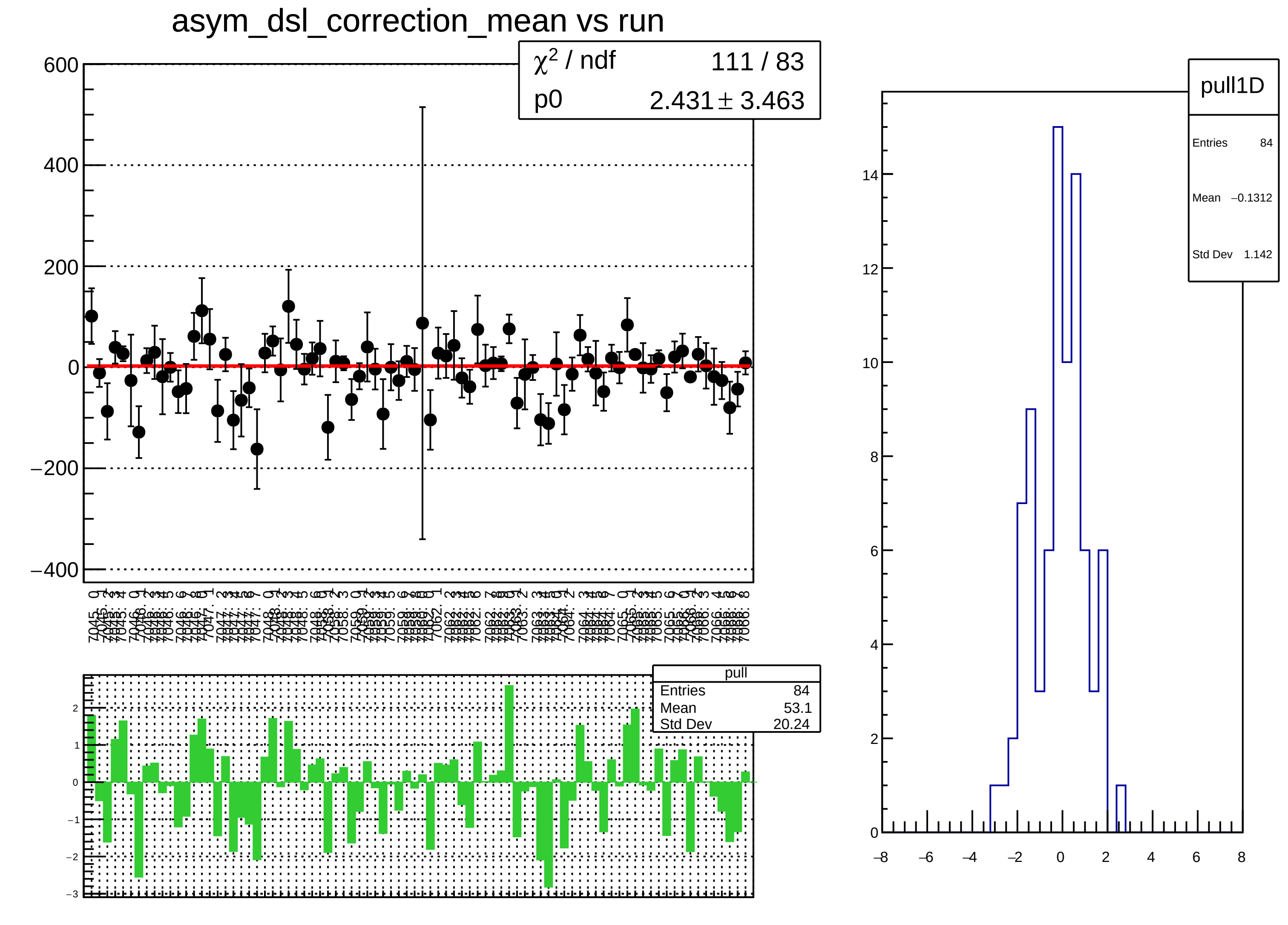
asym_usr_mean vs run
χ2 / ndf 83.41 / 83
p0 732 ± 2186
pull
Entries 84
Mean 219.9
Std Dev 172.2
pull1D
Entries 84
Mean 0.03609
Std Dev 0.9958


asym_usr_rms vs run
$\chi^2$ / ndf 1.384e+04 / 83
p0 1943 ± 1.546
2500
2400
2300
2200
2100
2000
1900
1800
1700

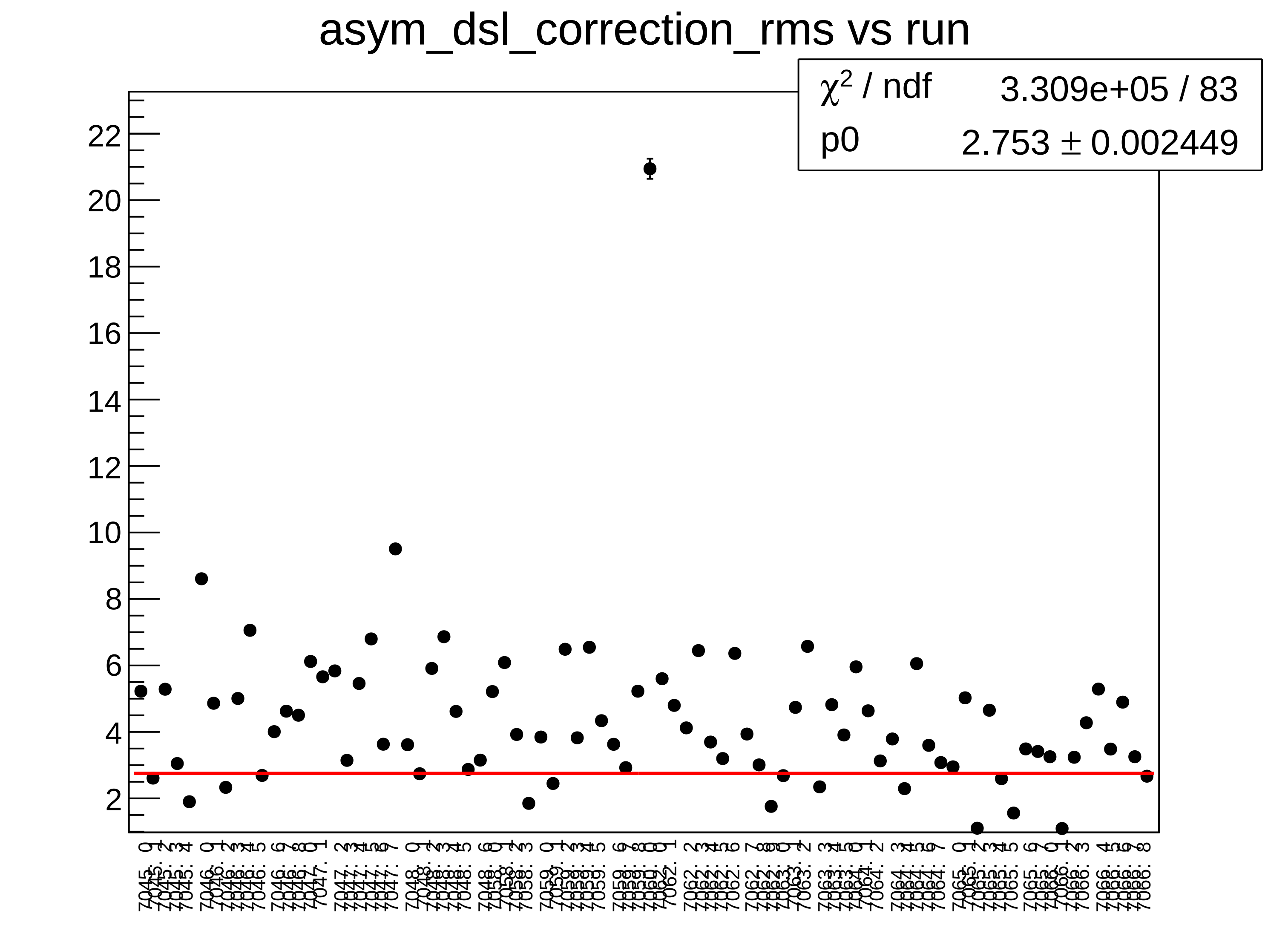

reg_asym_dsl_mean vs run
χ2 / ndf 95.14 / 83
p0 −106.5 ± 181.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 604.1
Std Dev 559
pull1D
Entries 84
Mean −0.008024
Std Dev 1.064

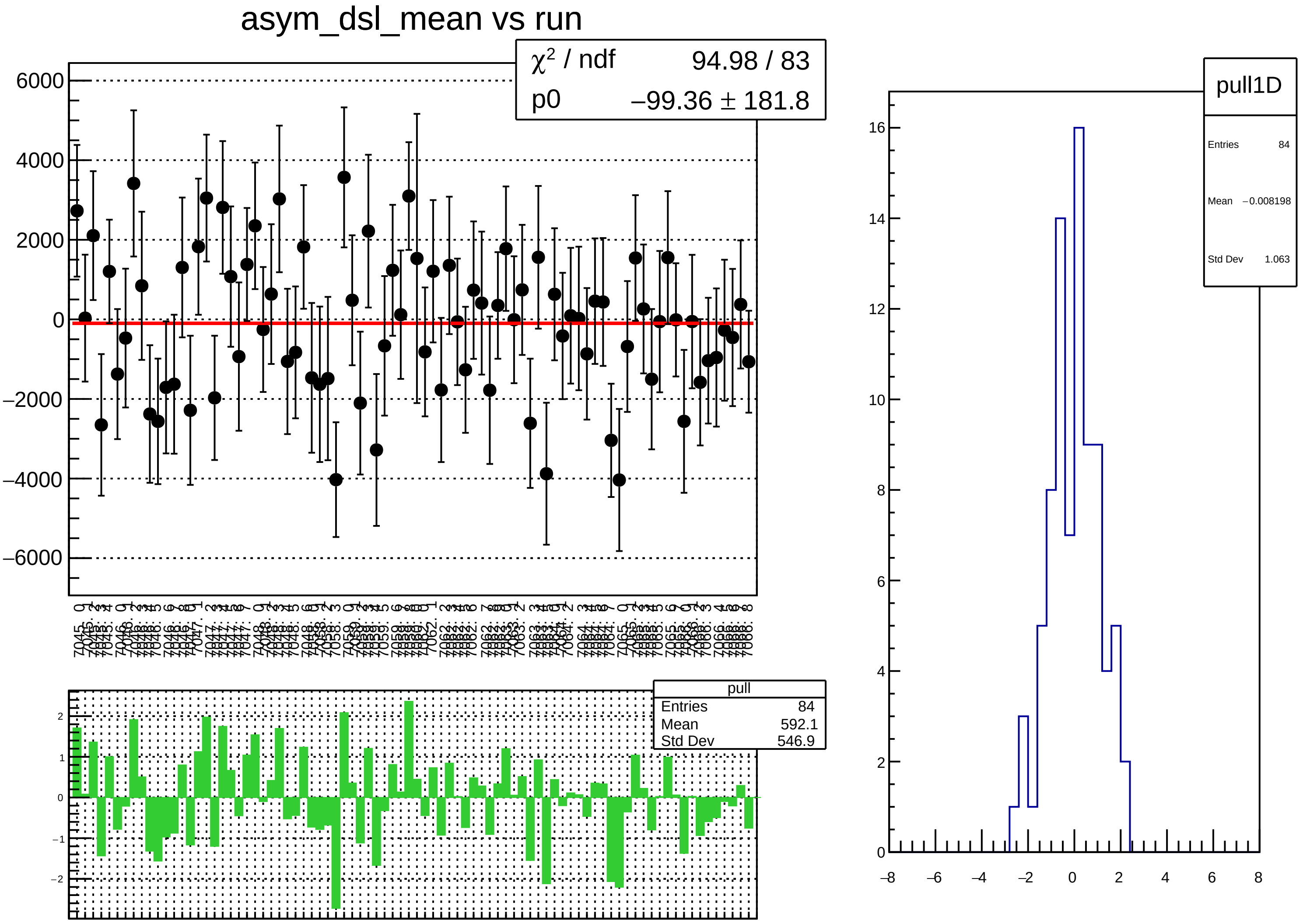


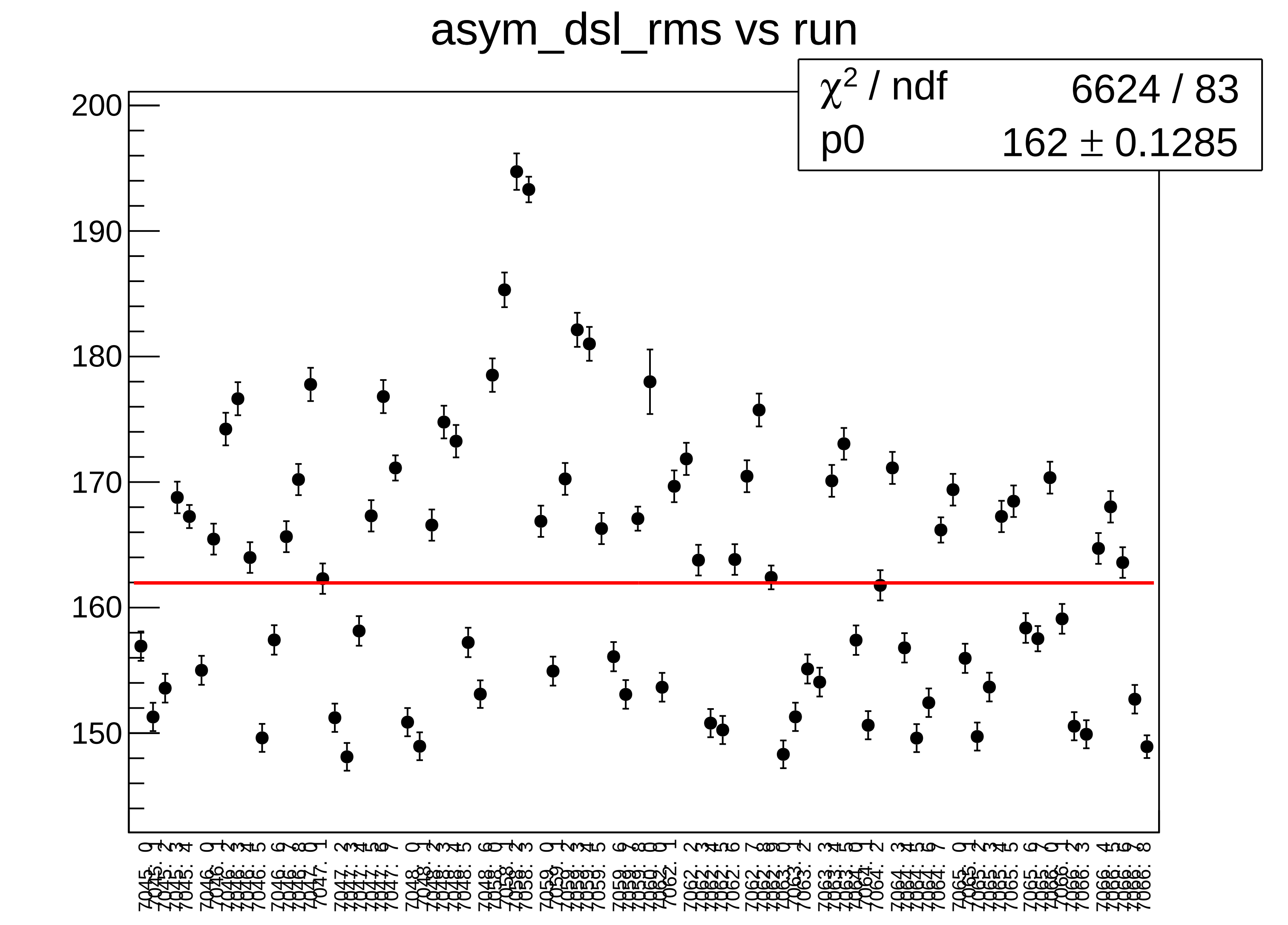
reg_asym_dsl_rms vs run
$\chi^2$ / ndf 6618 / 83
p0 161.9 ± 0.1285
200
190
180
170
160
150



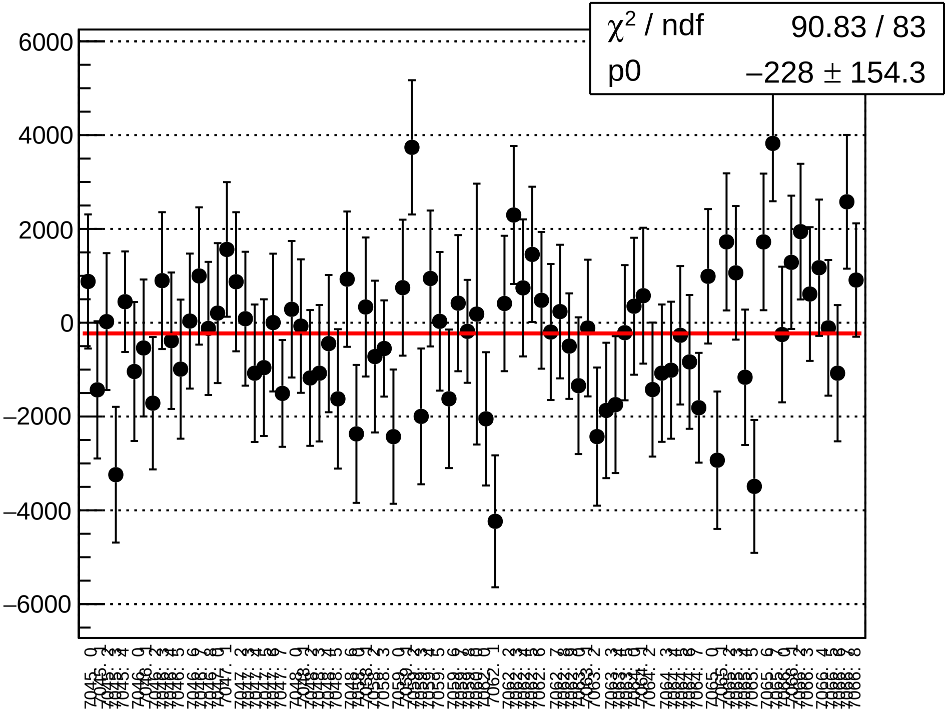
asym_dsl_correction_mean vs run
χ2 / ndf 111 / 83
p0 2.431 ± 3.463
600
400
200
0
−200
−400
pull
Entries 84
Mean 53.1
Std Dev 20.24
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.1312
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

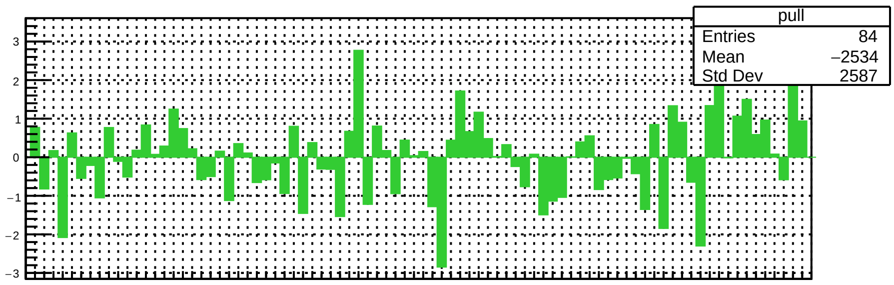

asym_dsl_correction_rms vs run
χ2 / ndf 3.309e+05 / 83
p0 2.753 ± 0.002449
22
20
18
16
14
12
10
8
6
4
2

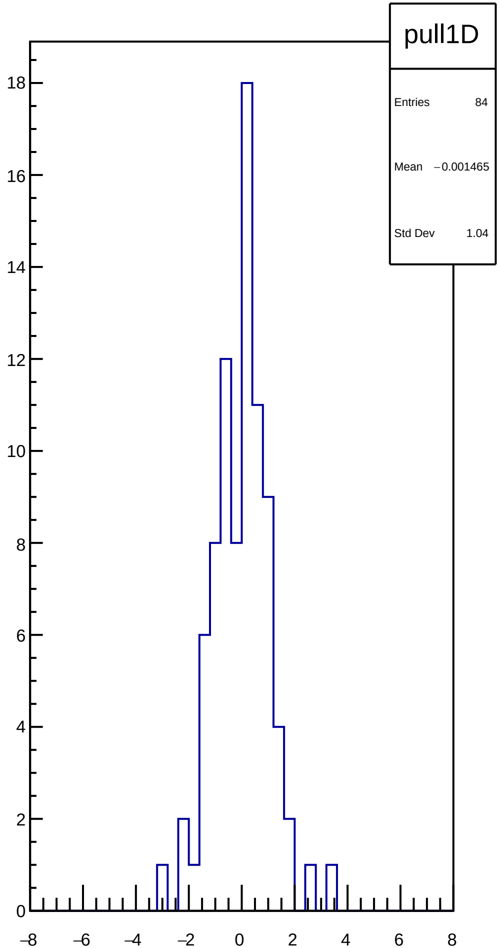

asym_dsl_mean vs run
$\chi^2$ / ndf 94.98 / 83
p0 −99.36 ± 181.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 592.1
Std Dev 546.9
pull1D
Entries 84
Mean −0.008198
Std Dev 1.063

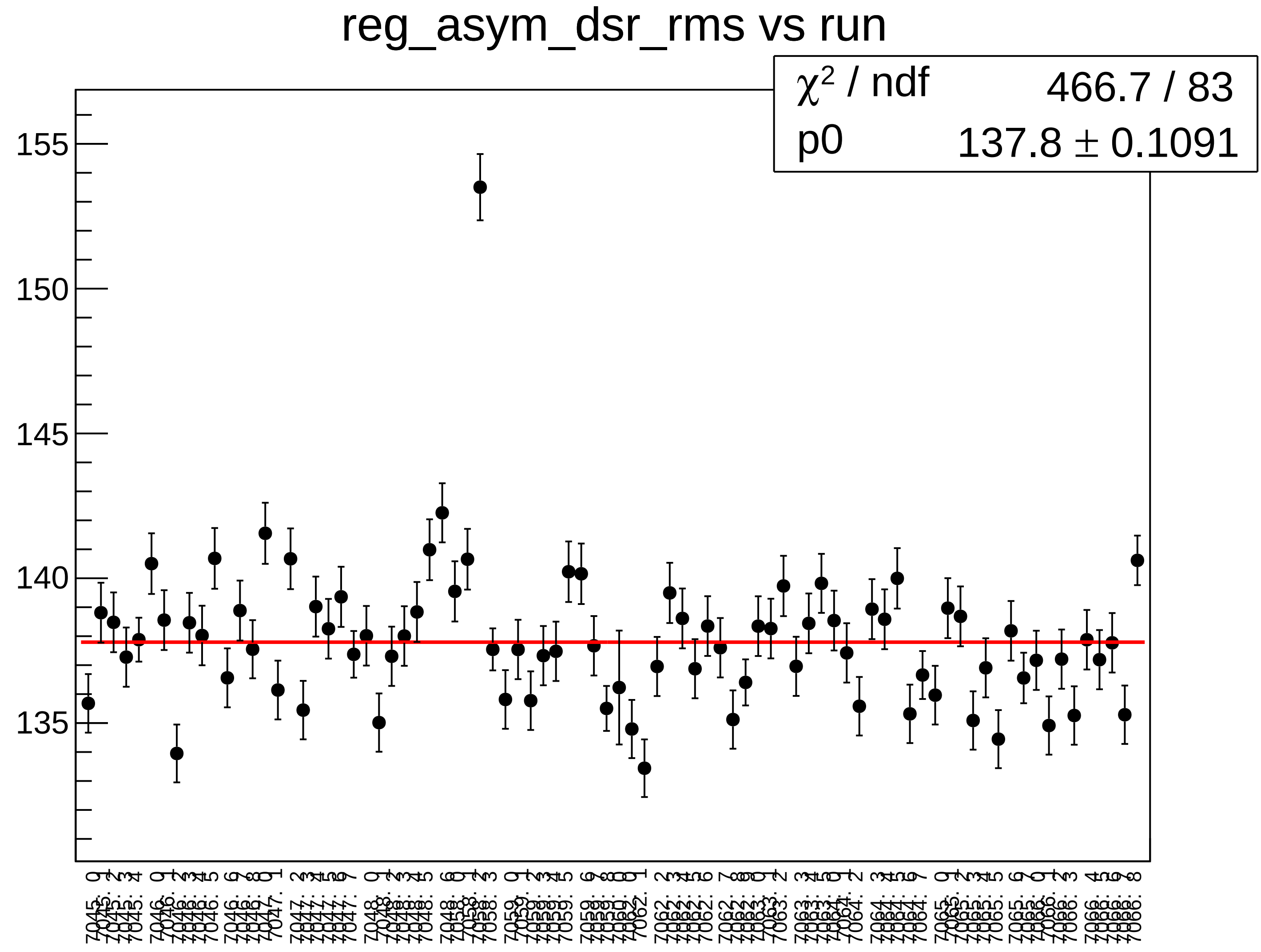

asym_dsl_rms vs run
$\chi^2$ / ndf 6624 / 83
p0 162 ± 0.1285
200
190
180
170
160
150

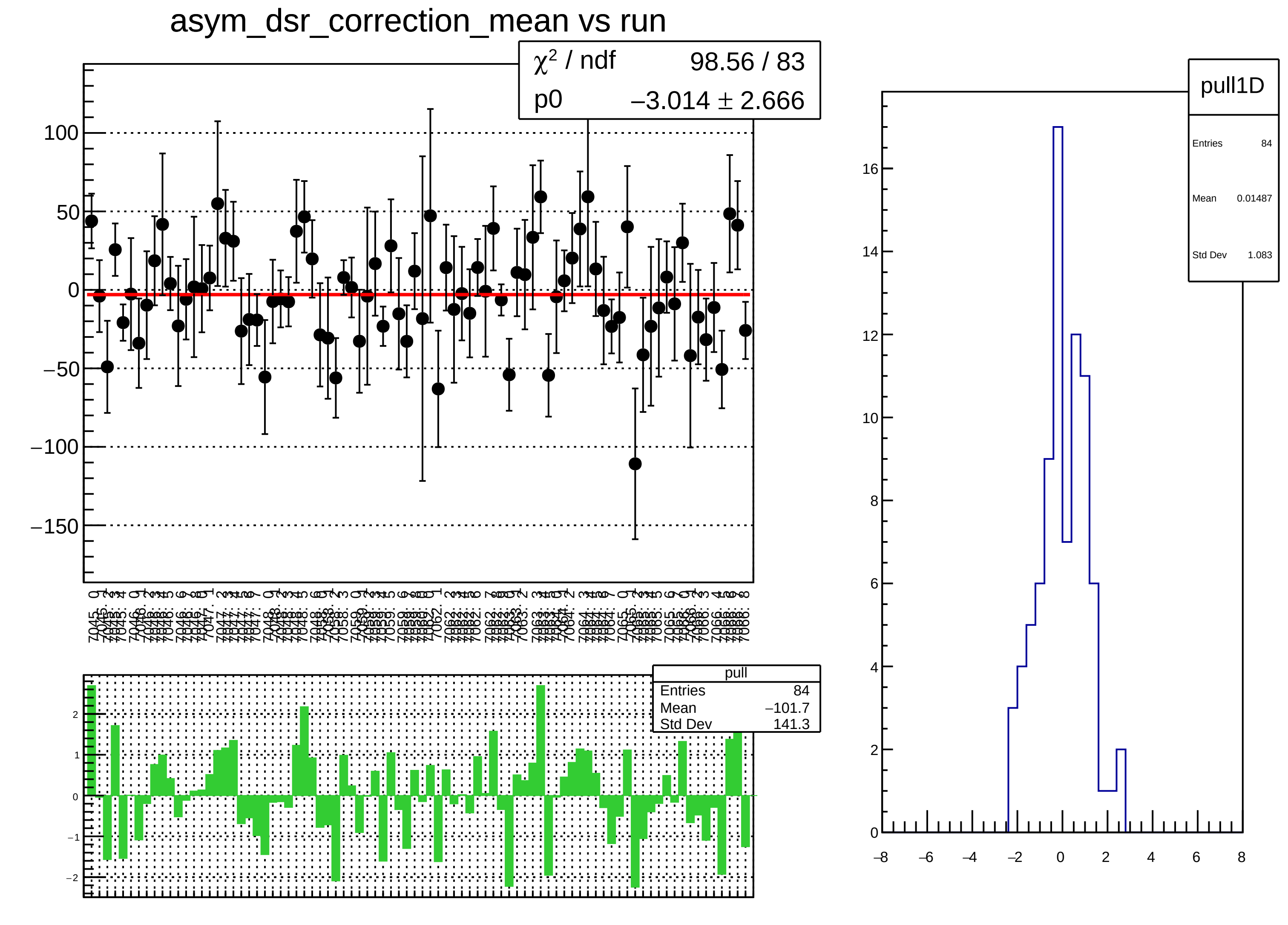
reg_asym_dsr_mean vs run



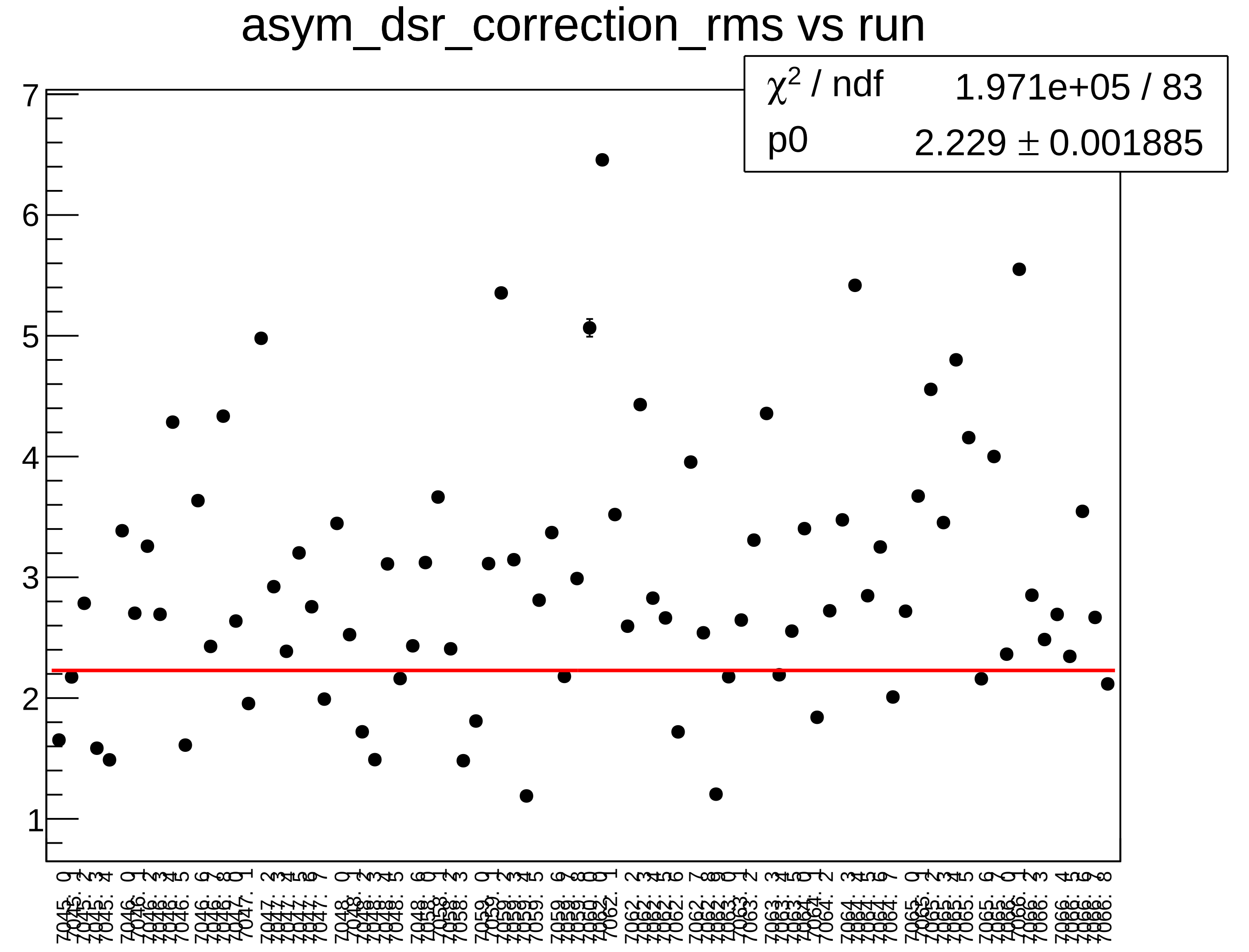



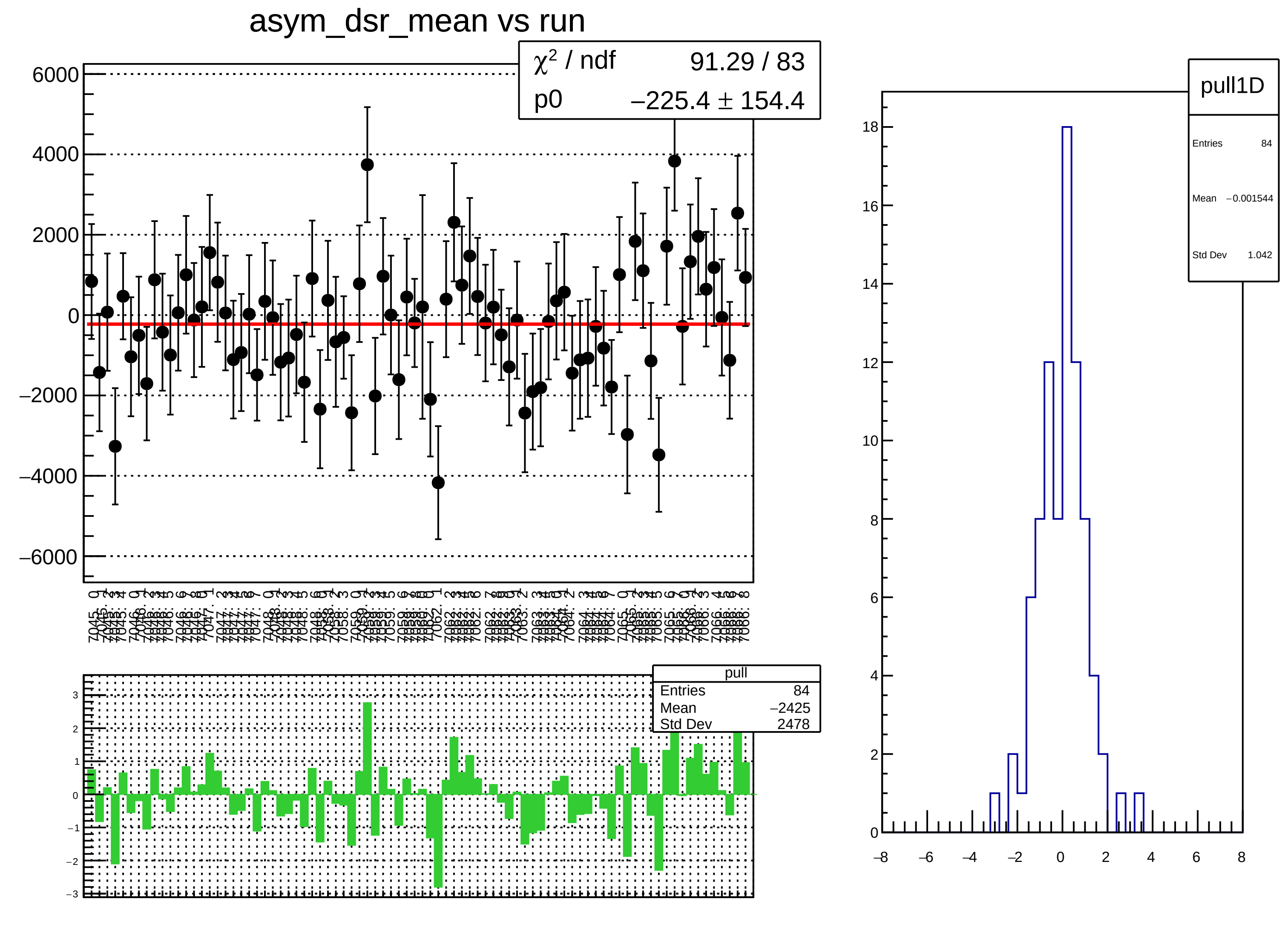



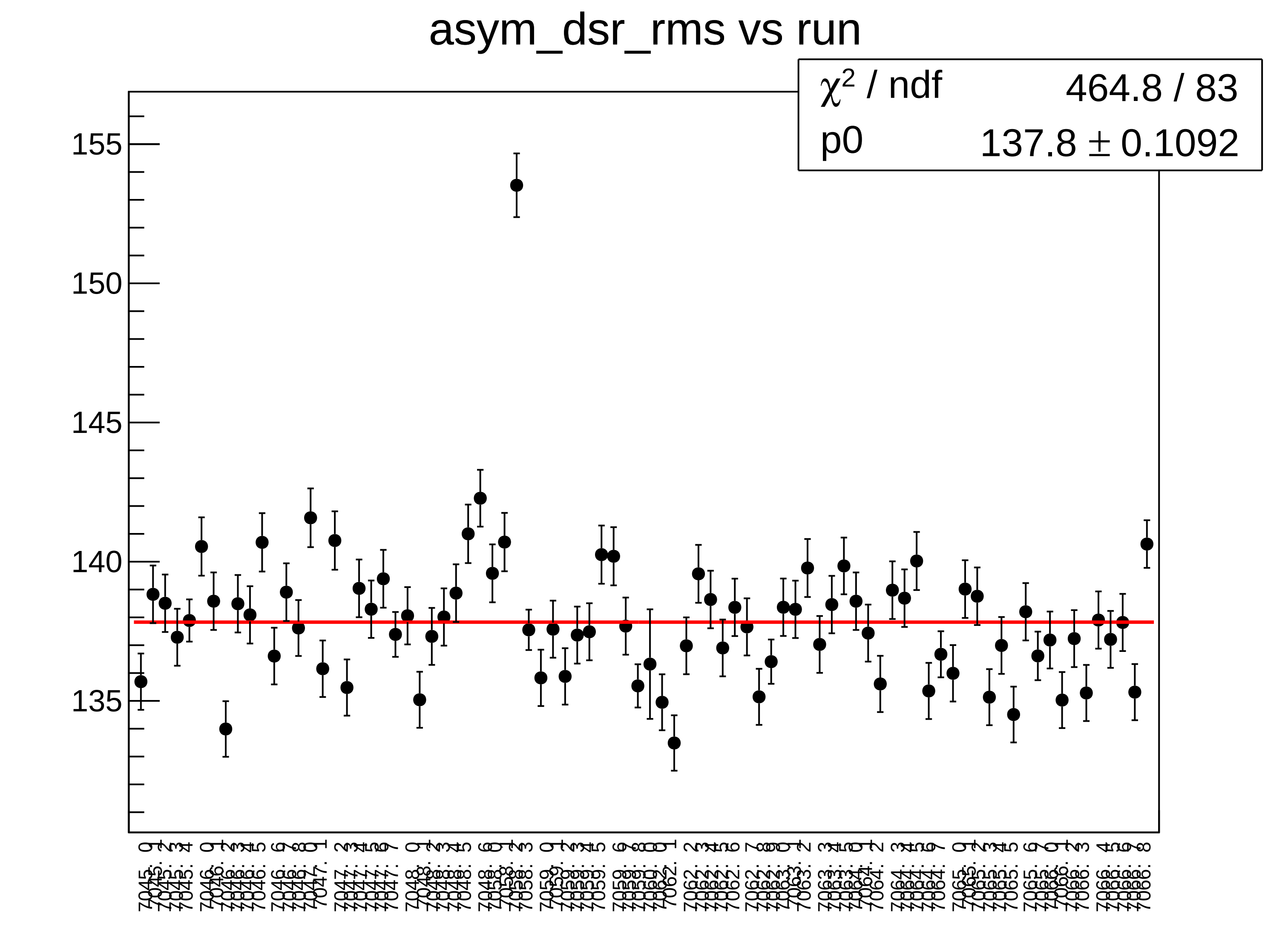

reg_asym_dsr_rms vs run
$\chi^2$ / ndf 466.7 / 83
p0 137.8 ± 0.1091
155
150
145
140
135



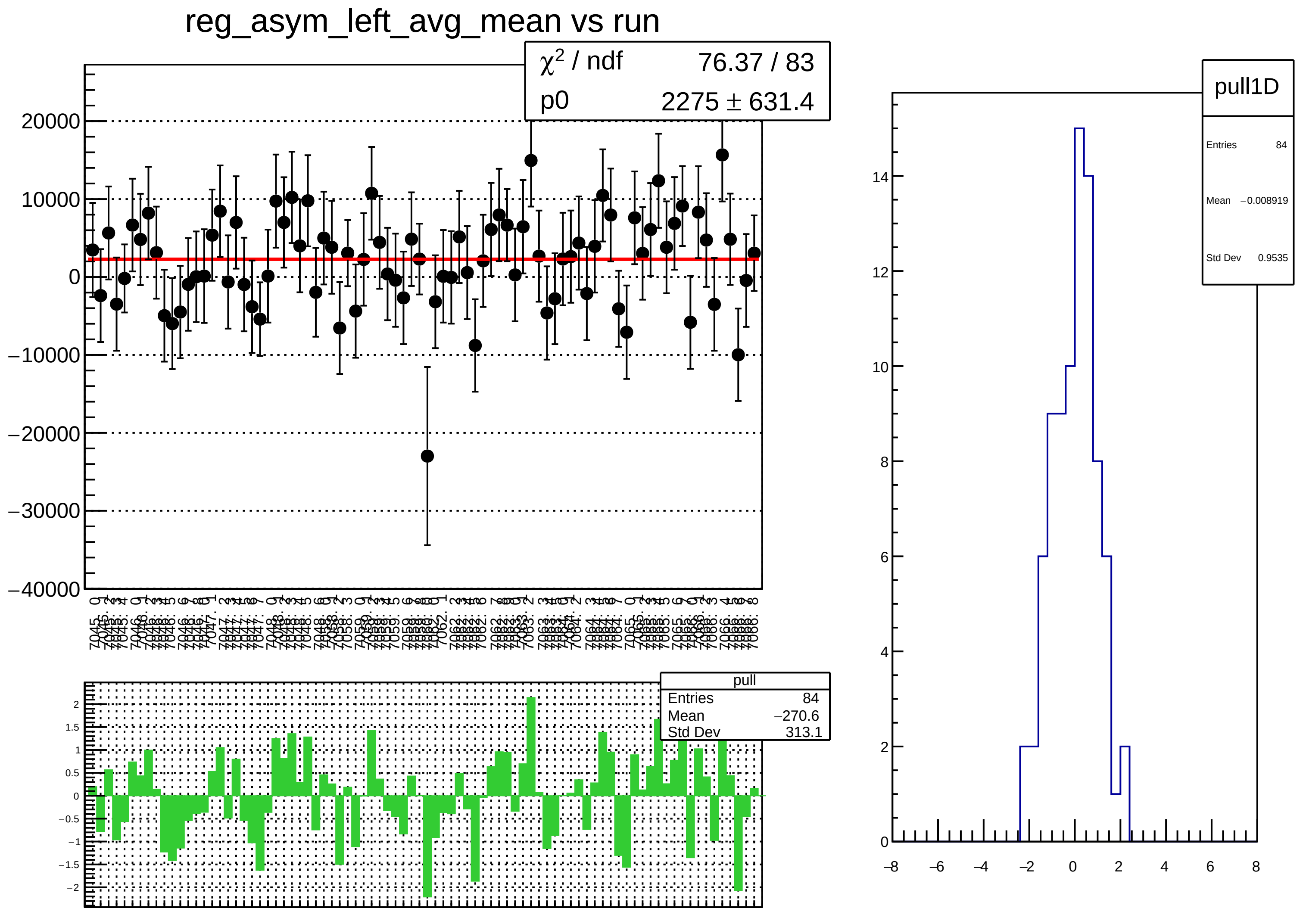
asym_dsr_correction_mean vs run
$\chi^2$ / ndf 98.56 / 83
p0 −3.014 ± 2.666
pull
Entries 84
Mean −101.7
Std Dev 141.3
pull1D
Entries 84
Mean 0.01487
Std Dev 1.083


asym_dsr_correction_rms vs run
$\chi^2$ / ndf 1.971e+05 / 83
p0 2.229 ± 0.001885

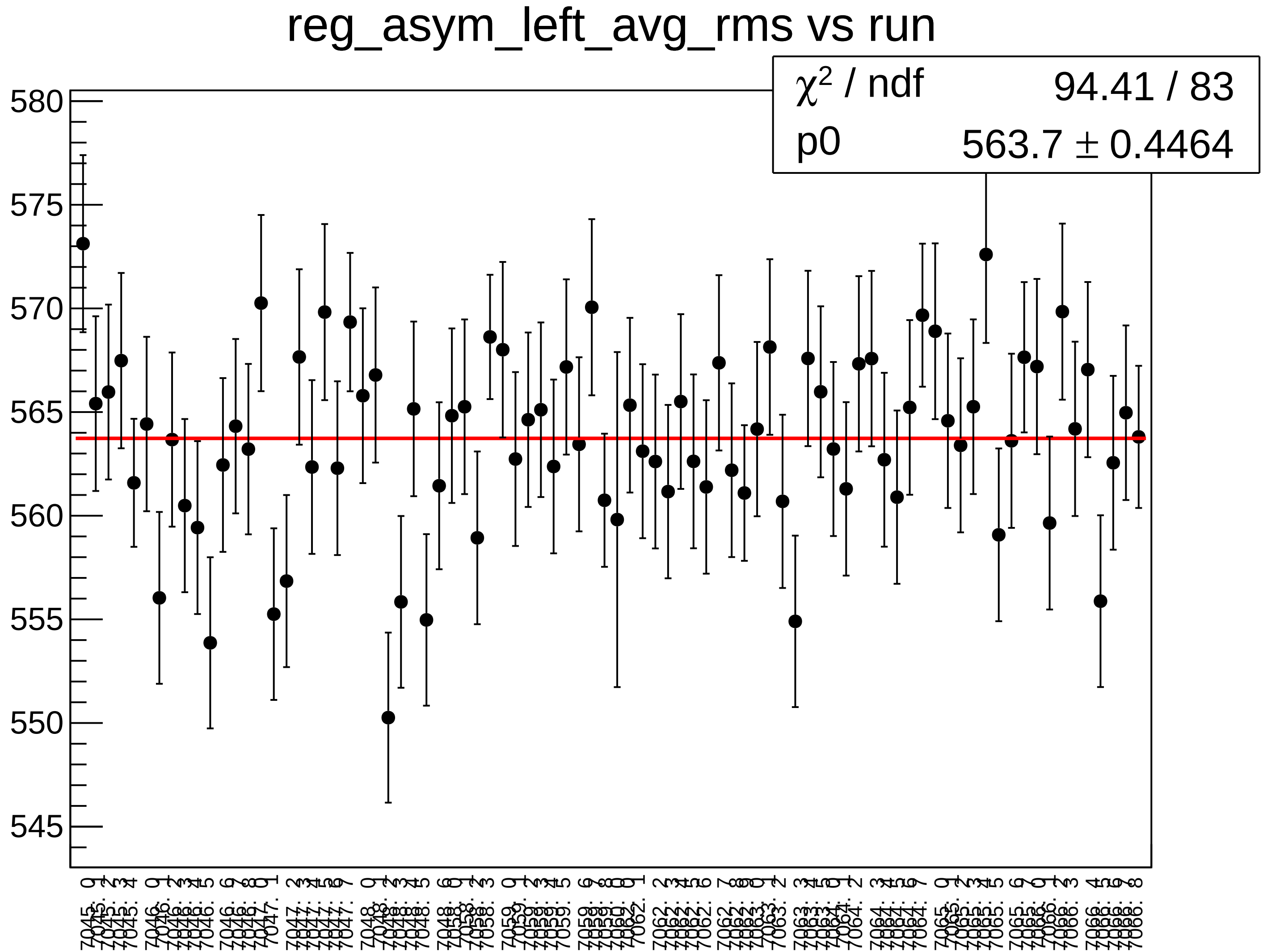

asym_dsr_mean vs run
$\chi^2$ / ndf 91.29 / 83
p0 −225.4 ± 154.4
pull
Entries 84
Mean −2425
Std Dev 2478
pull1D
Entries 84
Mean −0.001544
Std Dev 1.042

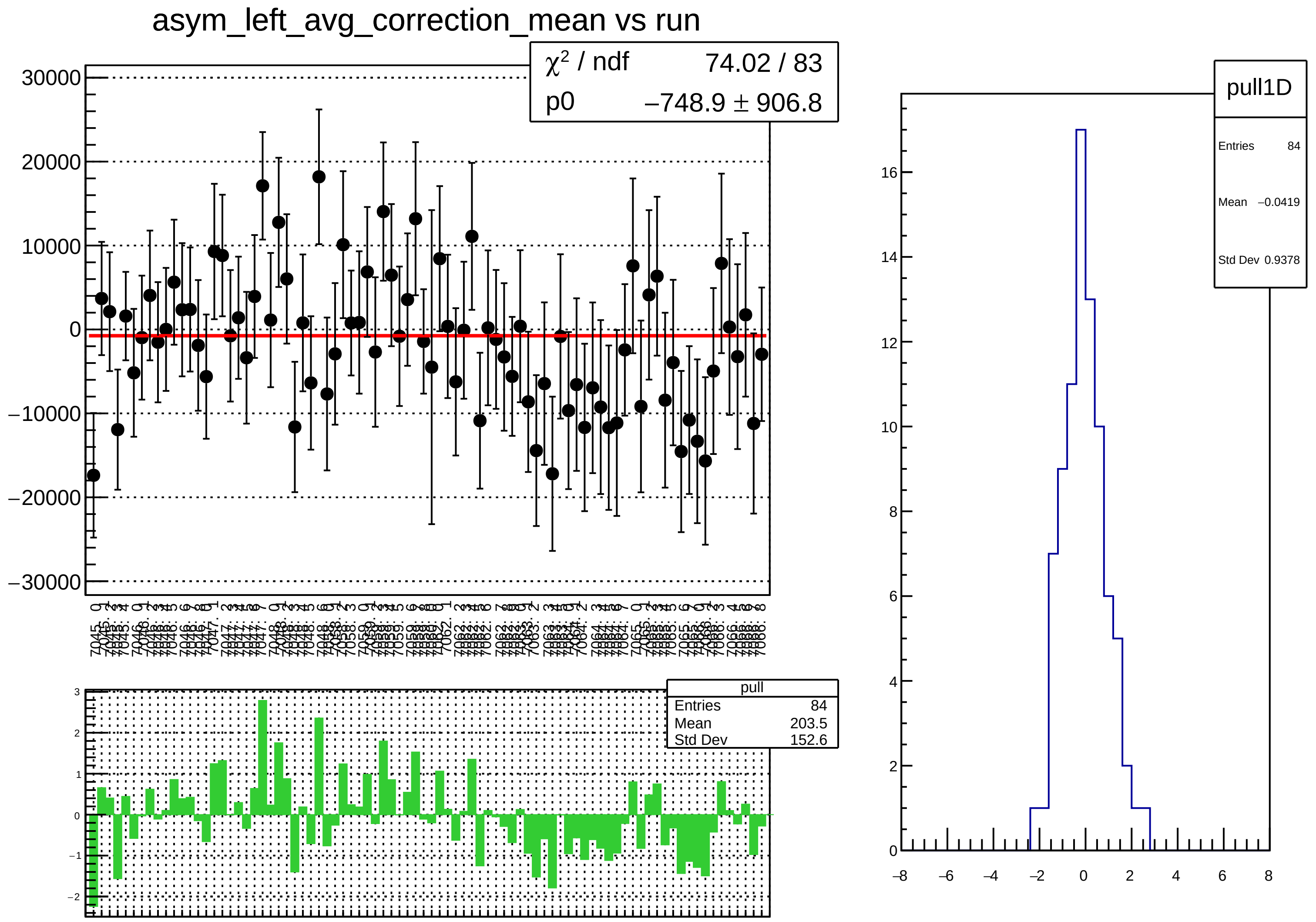


asym_dsr_rms vs run
$\chi^2$ / ndf 464.8 / 83
p0 137.8 ± 0.1092
155
150
145
140
135

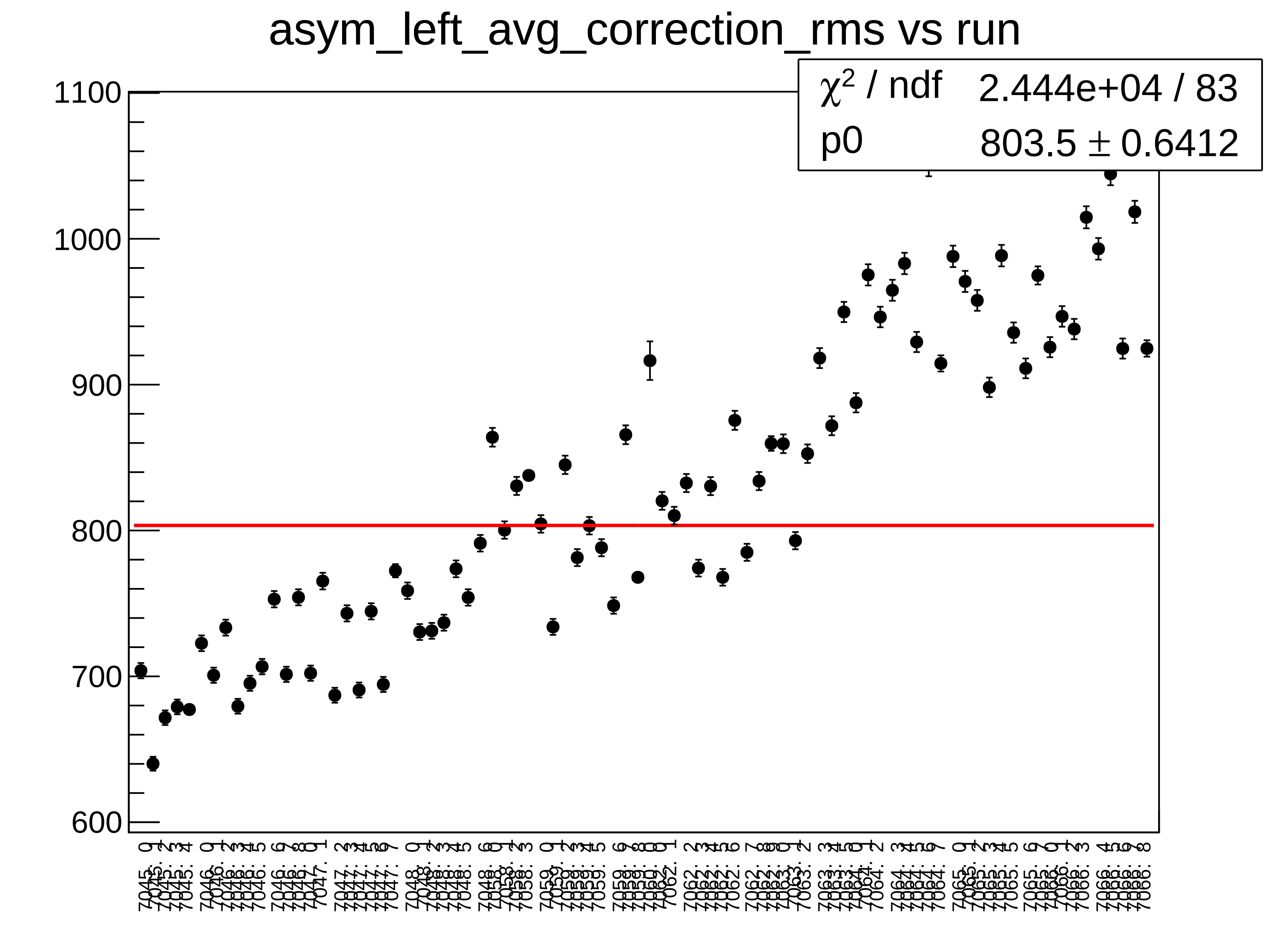


reg_asym_left_avg_mean vs run
$\chi^2$ / ndf 76.37 / 83
p0 2275 ± 631.4
pull
Entries 84
Mean −270.6
Std Dev 313.1
pull1D
Entries 84
Mean −0.008919
Std Dev 0.9535

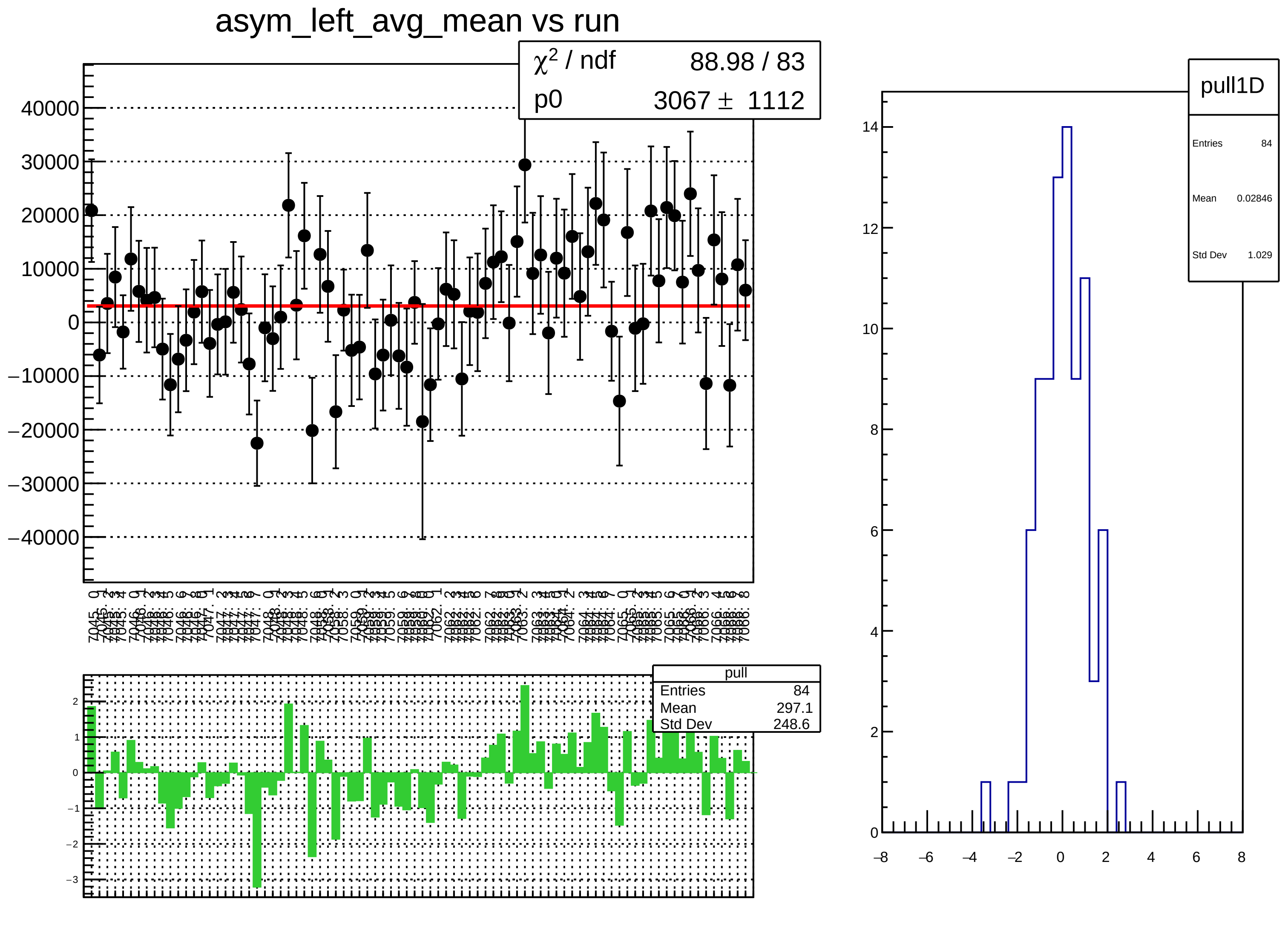

reg_asym_left_avg_rms vs run
$\chi^2$ / ndf 94.41 / 83
p0 563.7 ± 0.4464
580
575
570
565
560
555
550
545

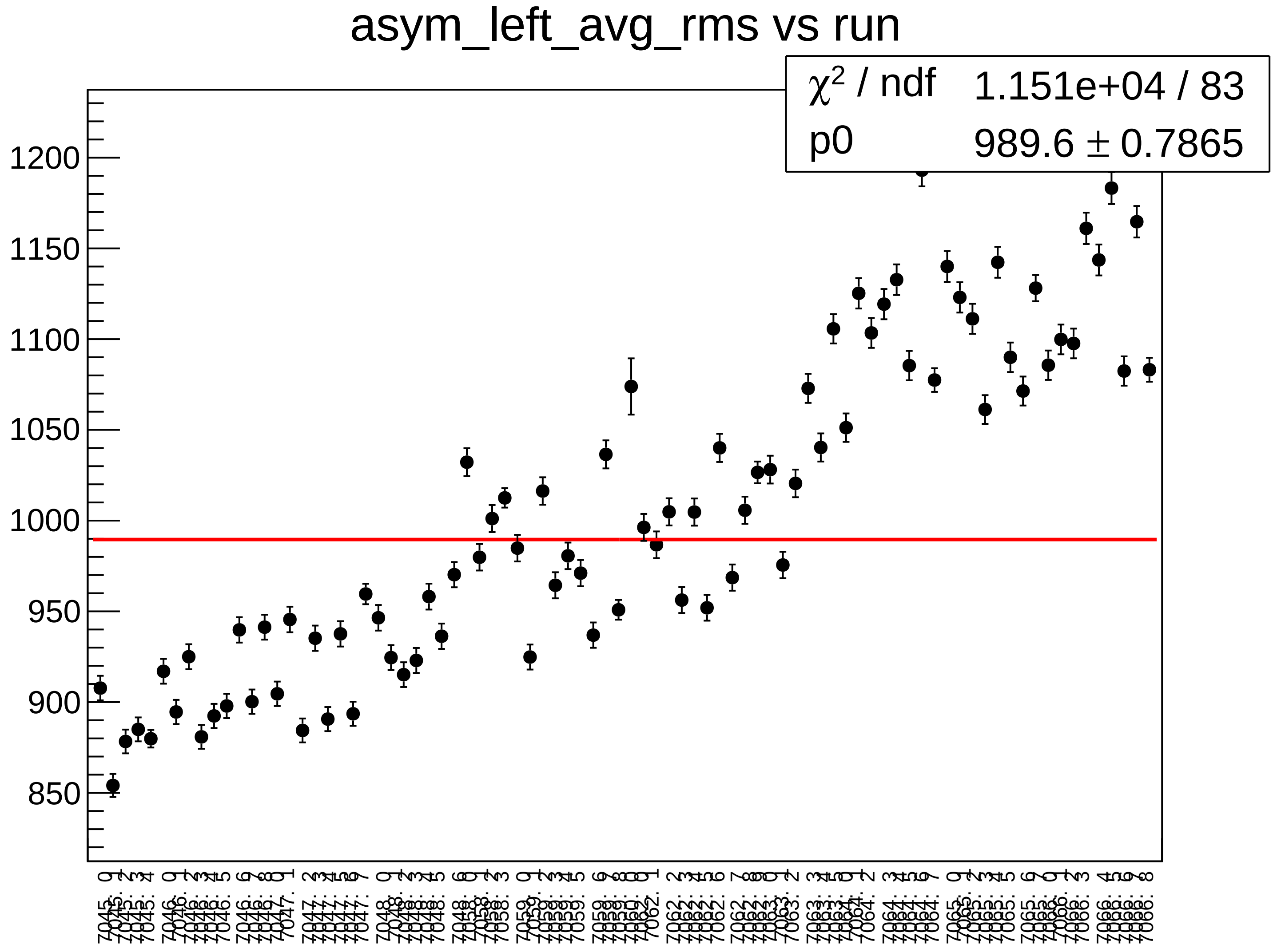


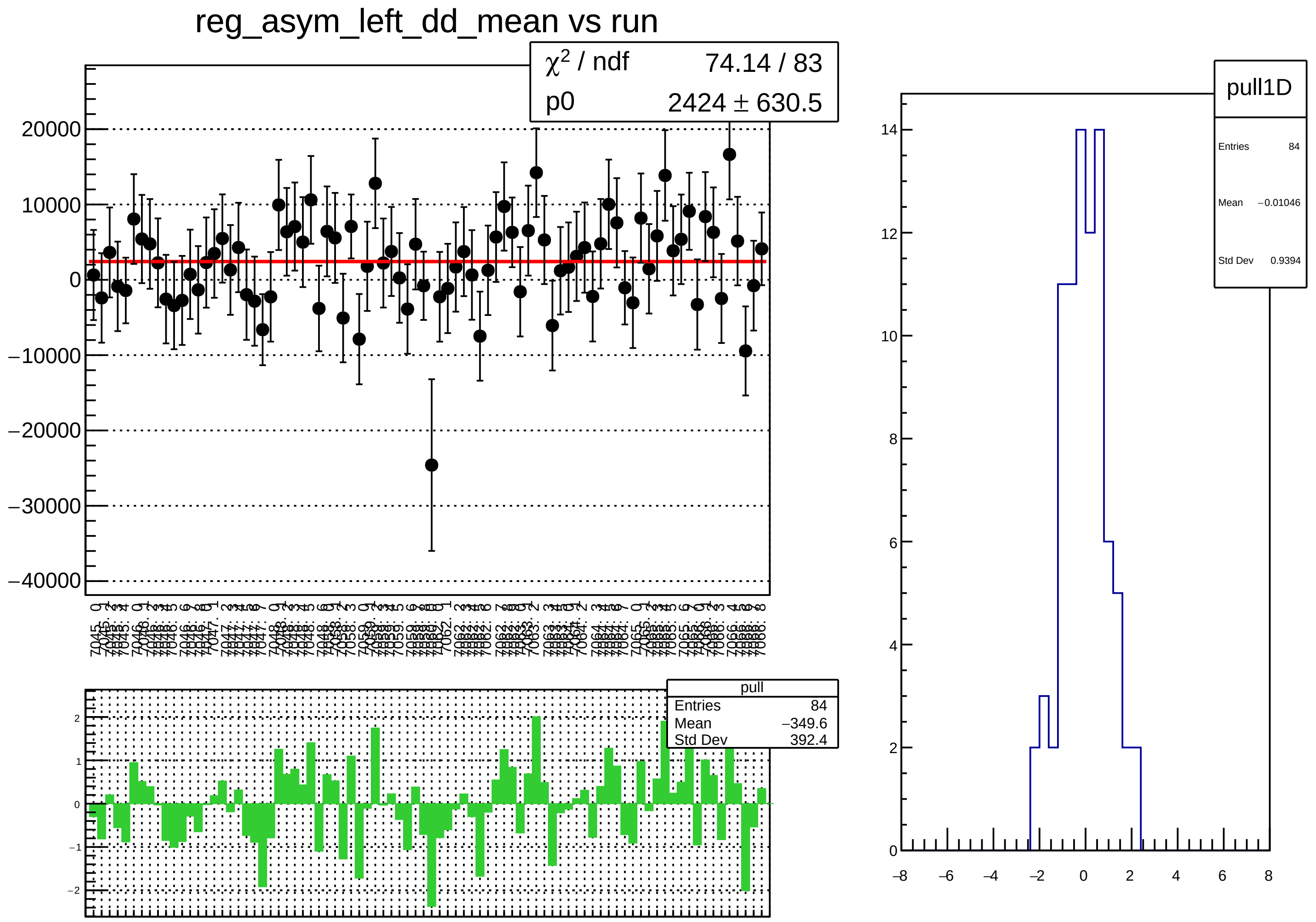
asym_left_avg_correction_mean vs run
$\chi^2$ / ndf 74.02 / 83
p0 −748.9 ± 906.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 203.5
Std Dev 152.6
pull1D
Entries 84
Mean −0.0419
Std Dev 0.9378



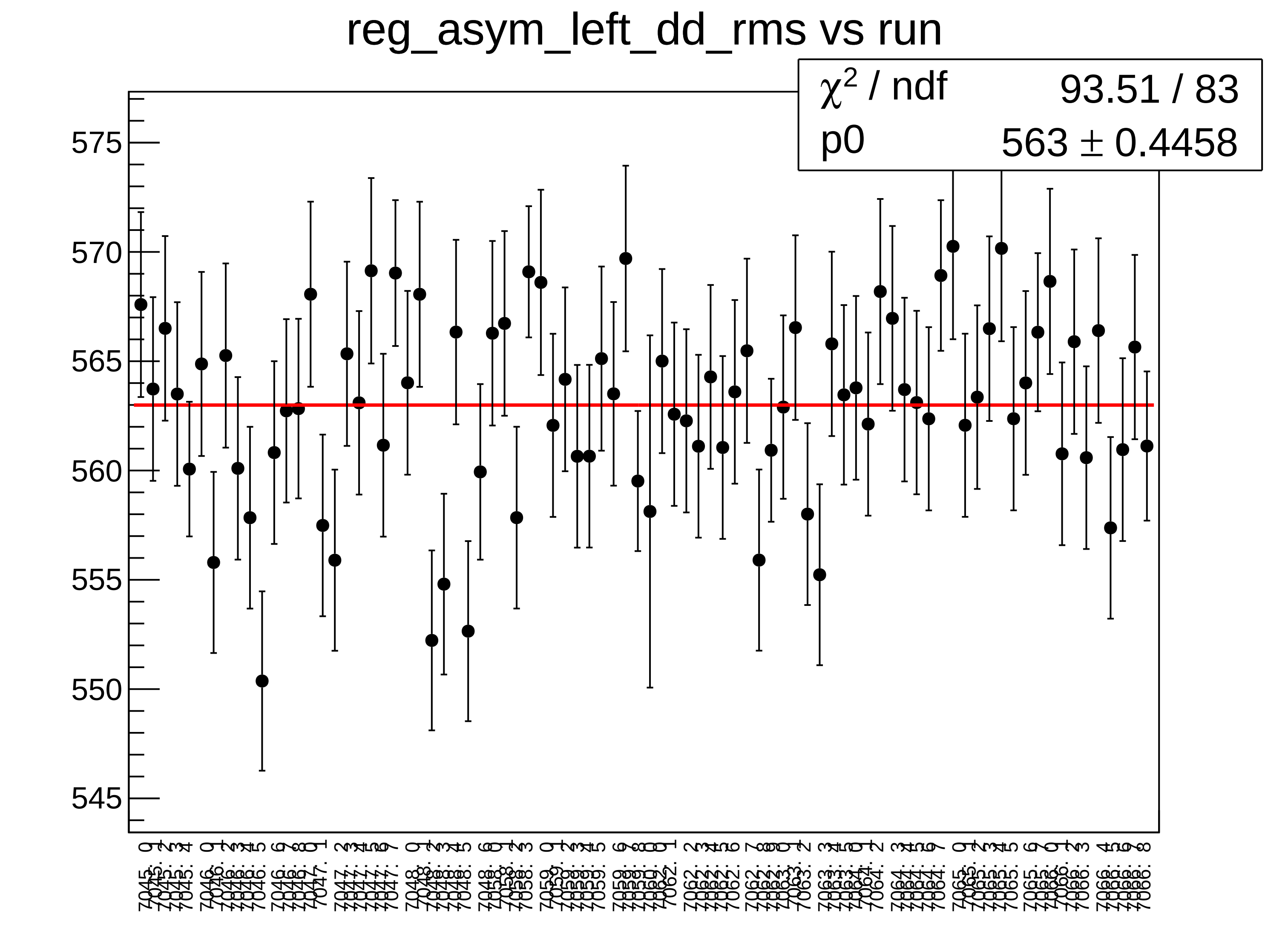
asym_left_avg_correction_rms vs run
χ2 / ndf 2.444e+04 / 83
p0 803.5 ± 0.6412
1100
1000
900
800
700
600

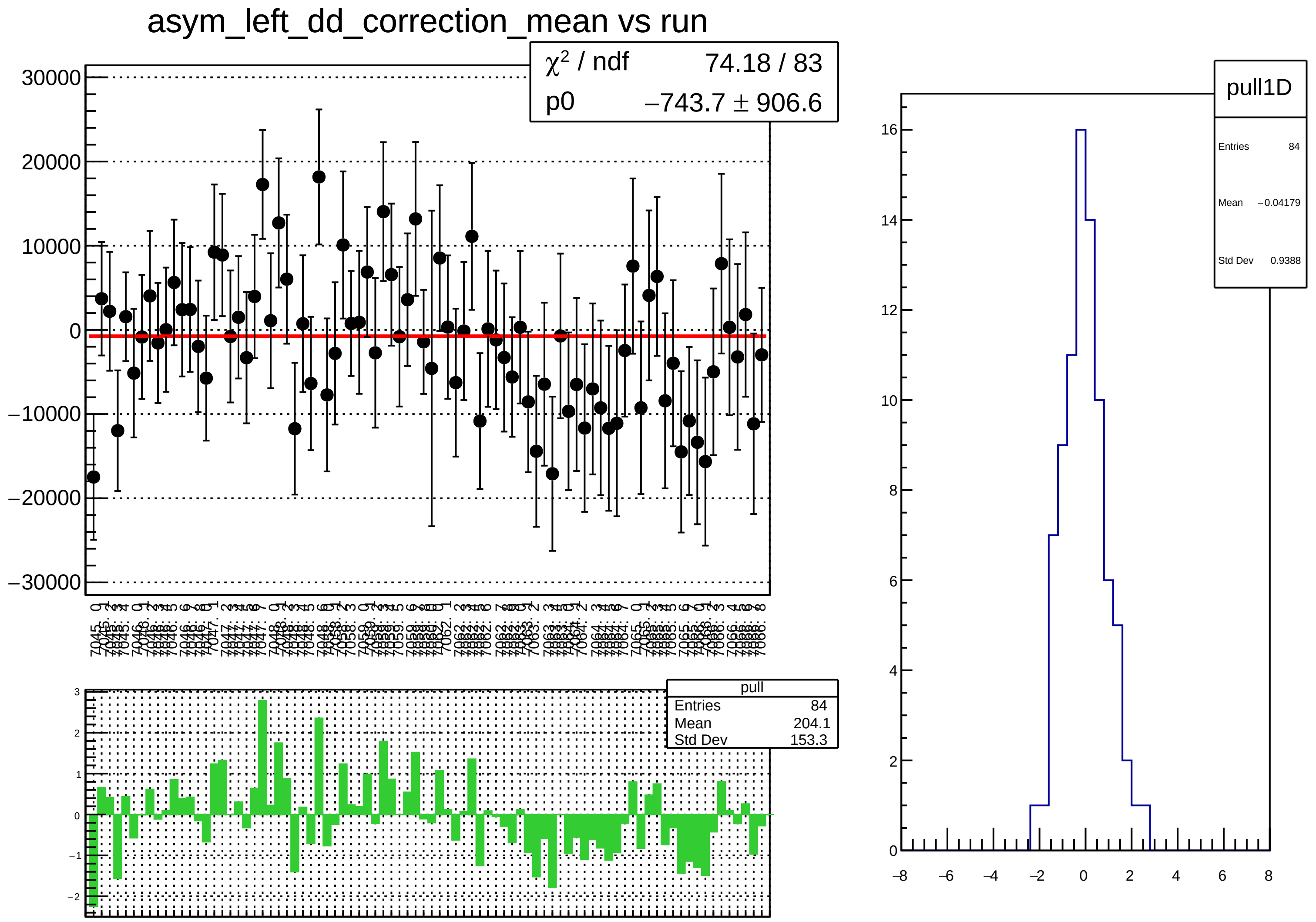

asym_left_avg_mean vs run
$\chi^2$ / ndf 88.98 / 83
p0 3067 ± 1112
pull
Entries 84
Mean 297.1
Std Dev 248.6
pull1D
Entries 84
Mean 0.02846
Std Dev 1.029

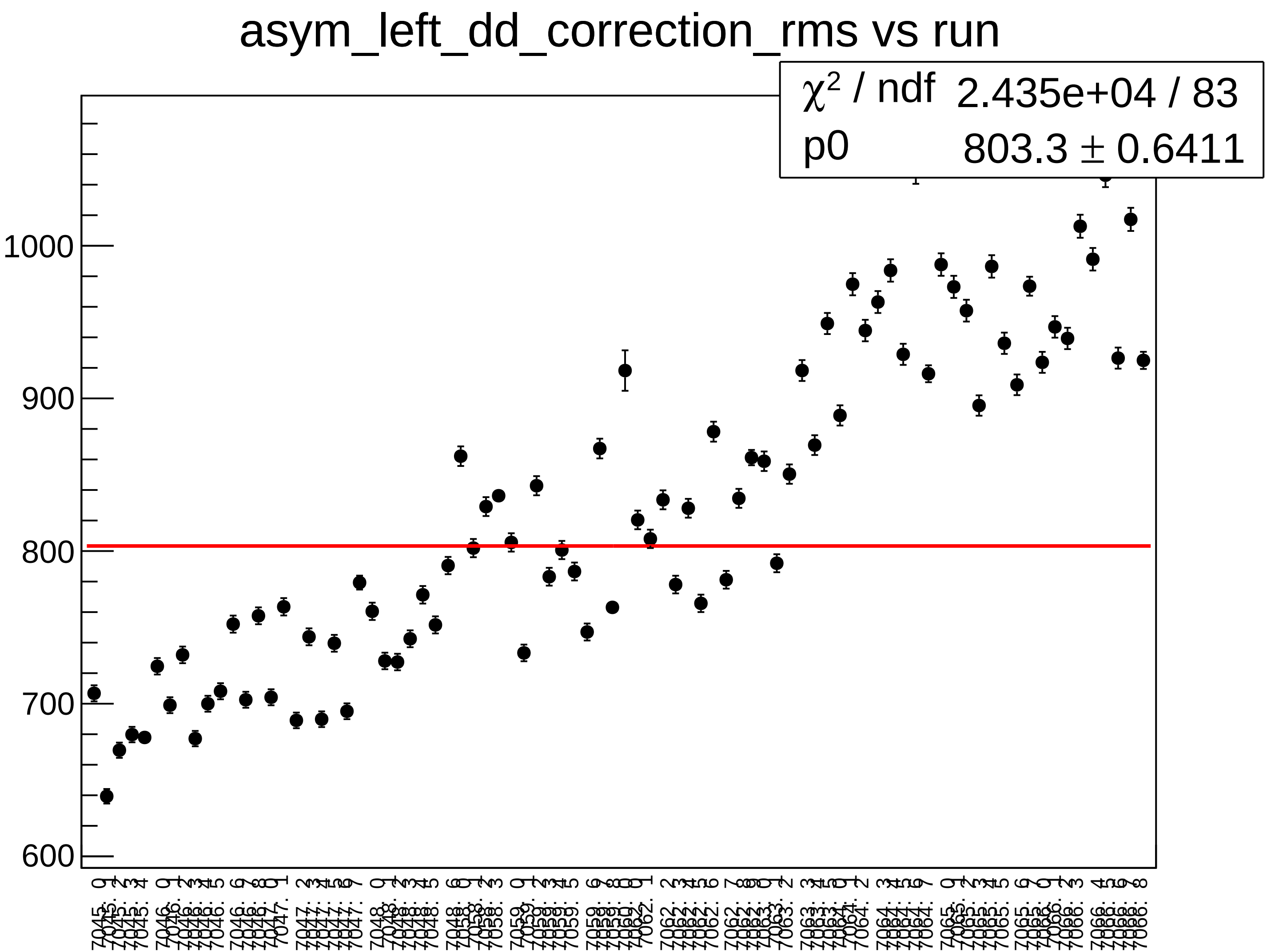

asym_left_avg_rms vs run
$\chi^2$ / ndf 1.151e+04 / 83
p0 989.6 ± 0.7865
1200
1150
1100
1050
1000
950
900
850

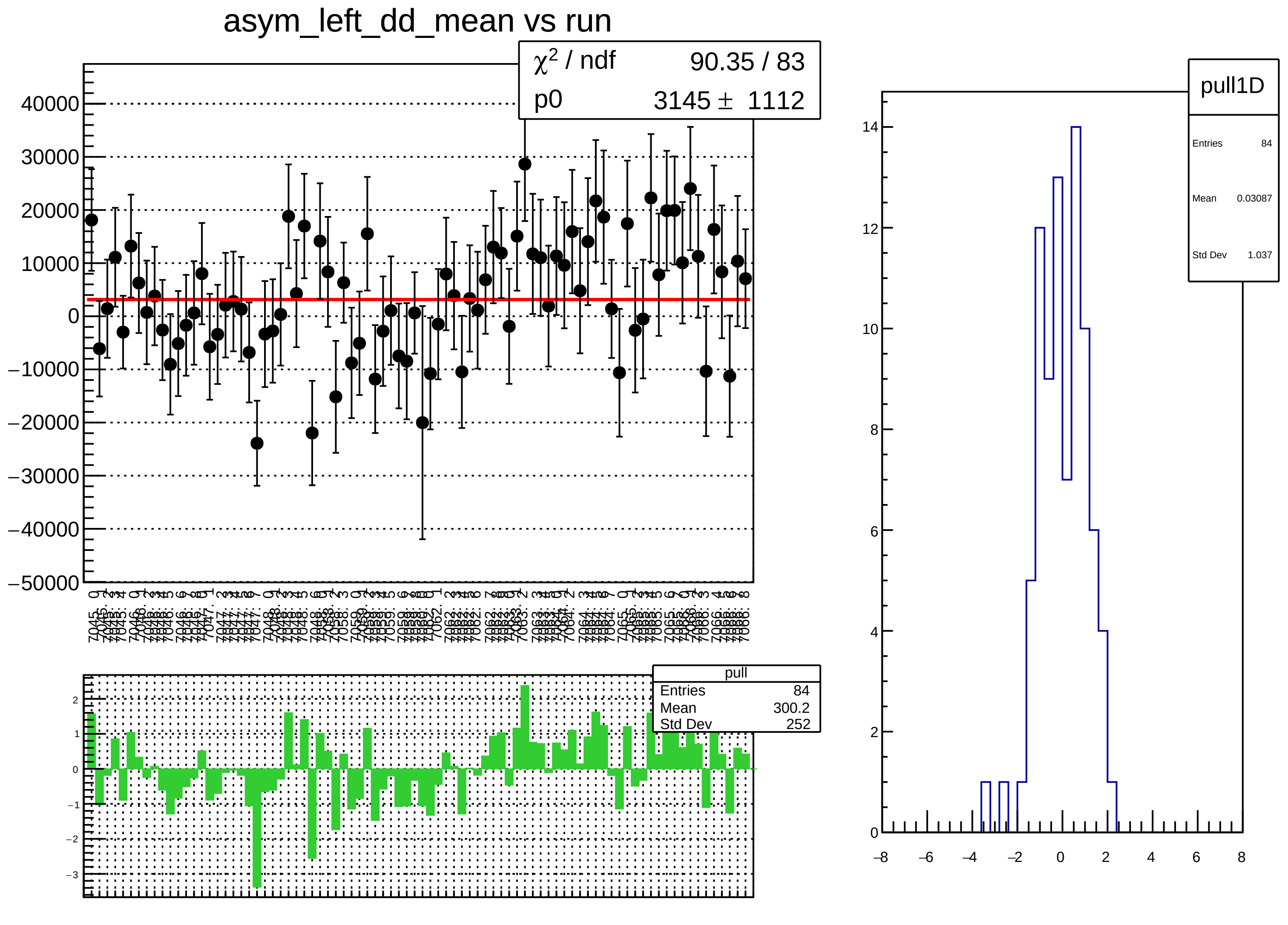


reg_asym_left_dd_mean vs run
$\chi^2$ / ndf 74.14 / 83
p0 2424 ± 630.5
pull
Entries 84
Mean −349.6
Std Dev 392.4
pull1D
Entries 84
Mean −0.01046
Std Dev 0.9394

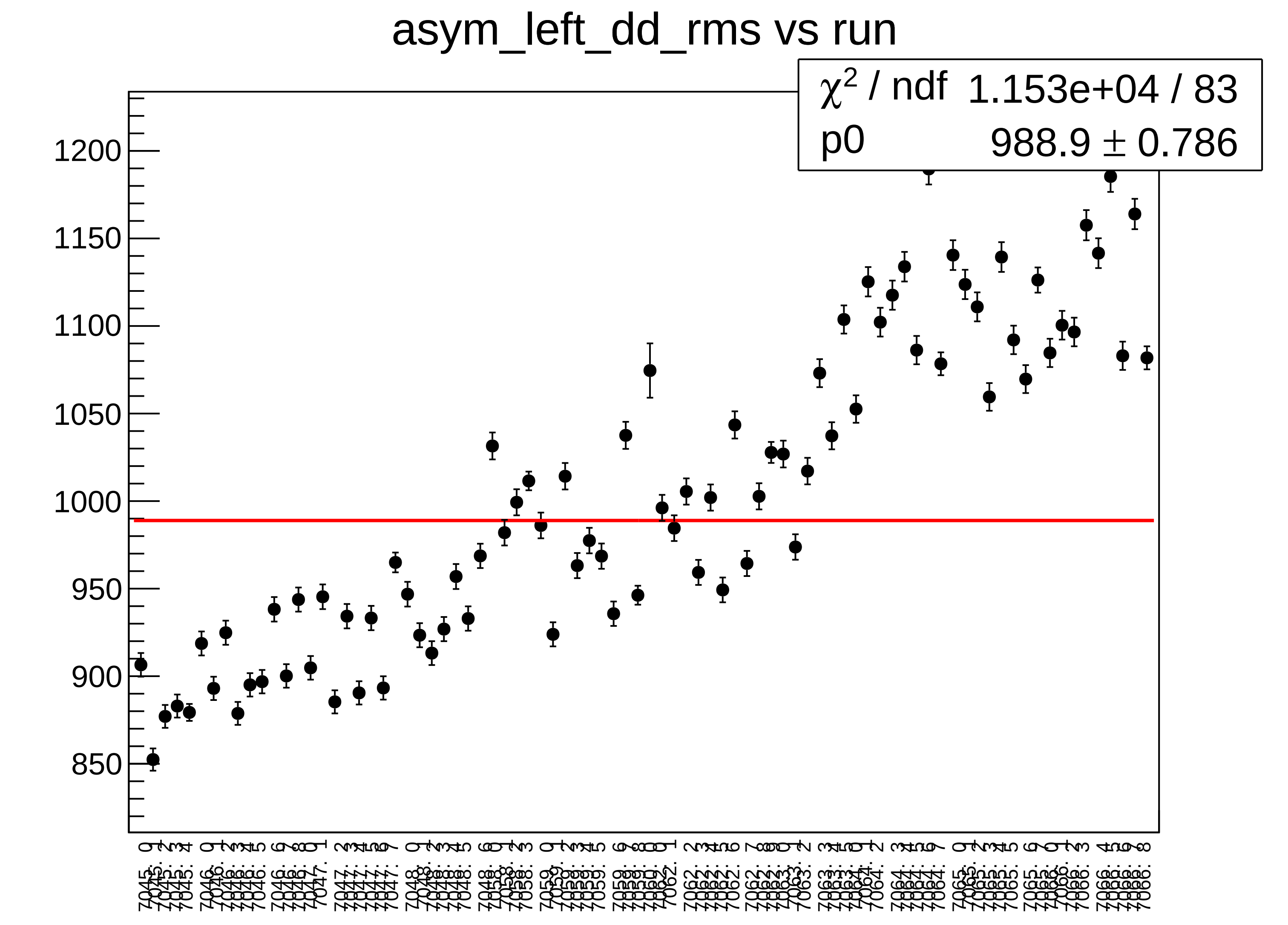

reg_asym_left_dd_rms vs run
$\chi^2$ / ndf 93.51 / 83
p0 563 ± 0.4458
575
570
565
560
555
550
545

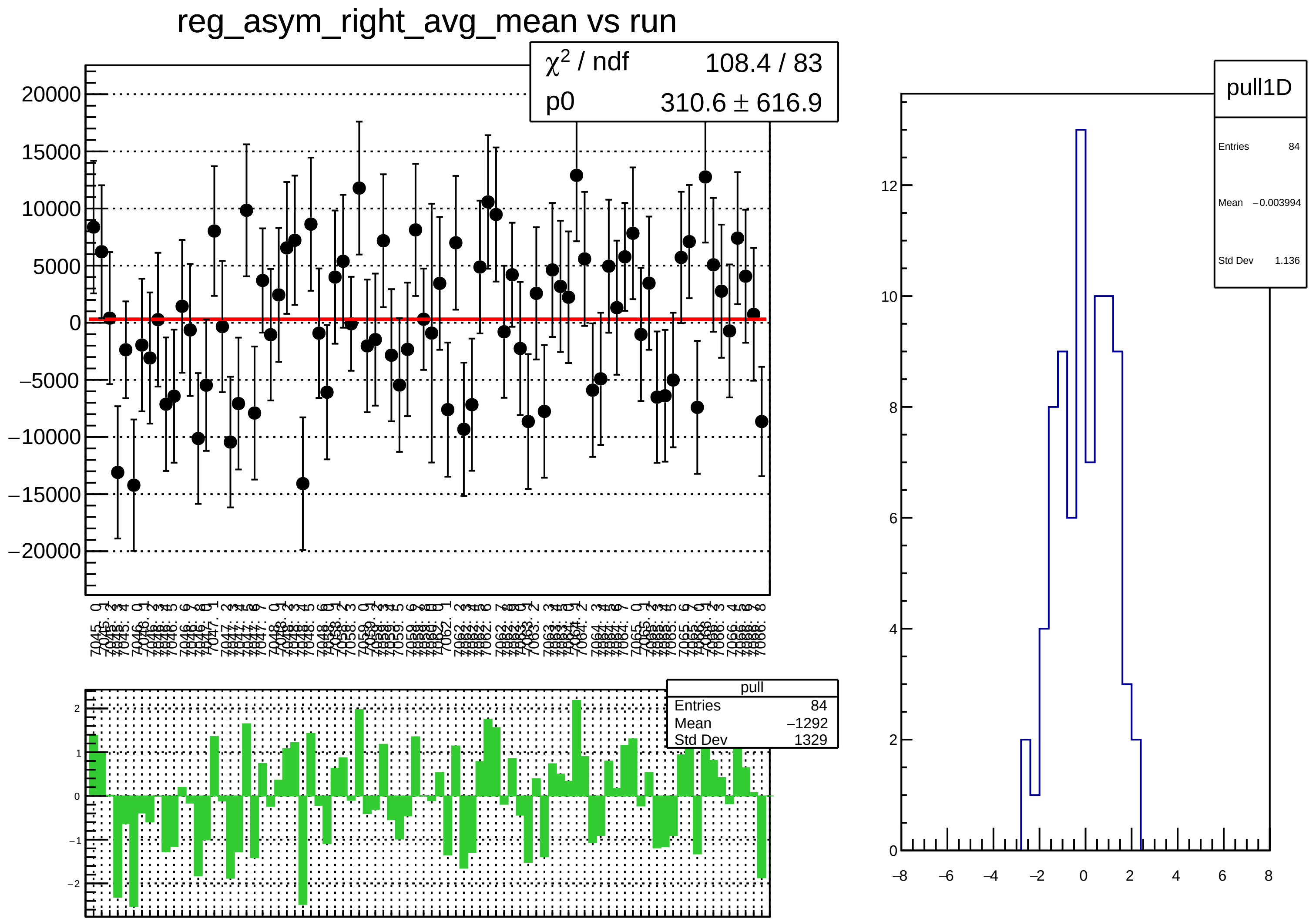

asym_left_dd_correction_mean vs run
$\chi^2$ / ndf 74.18 / 83
p0 −743.7 ± 906.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 204.1
Std Dev 153.3
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.04179
Std Dev 0.9388
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_dd_correction_rms vs run
χ2 / ndf 2.435e+04 / 83
p0 803.3 ± 0.6411

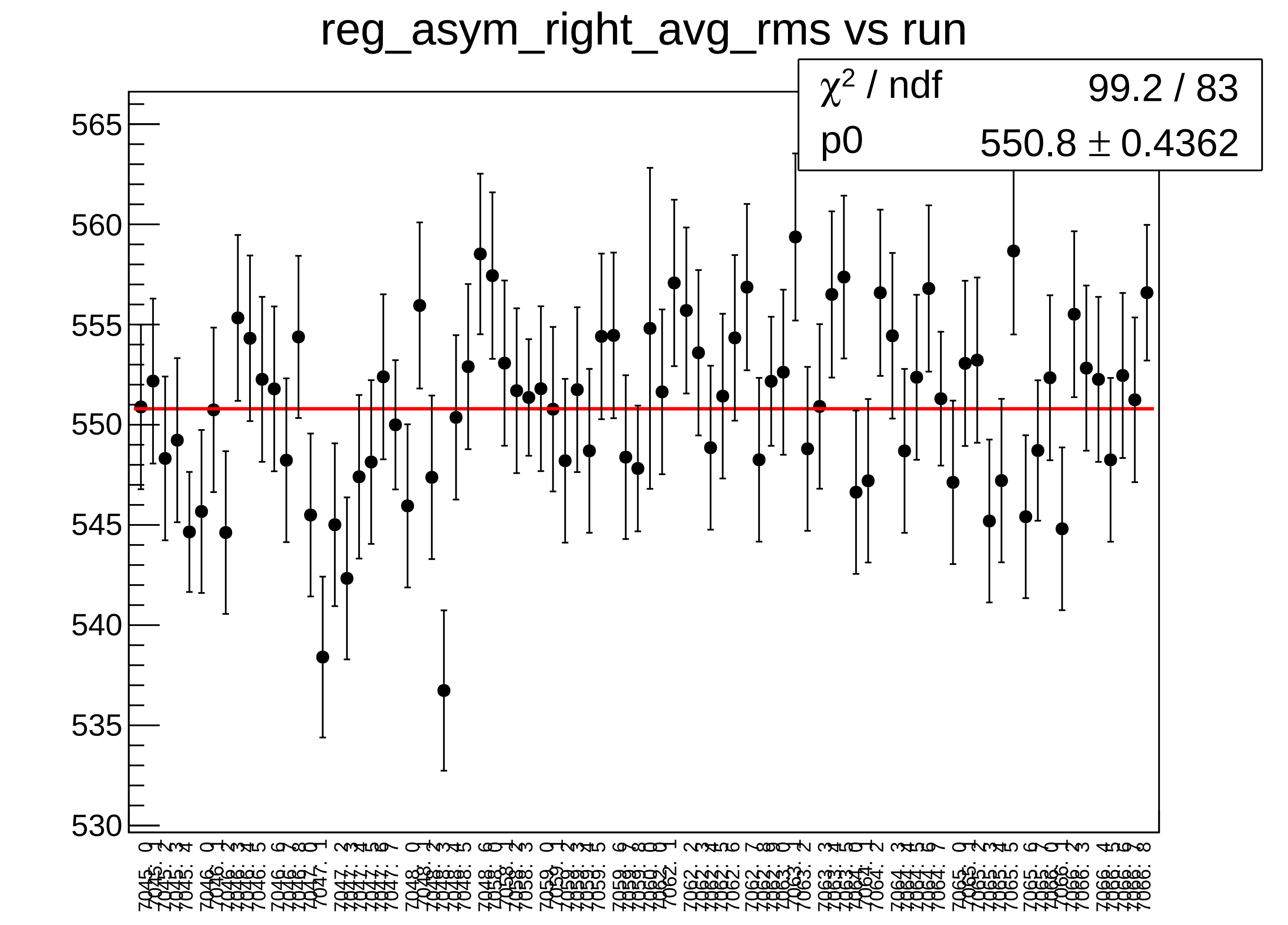


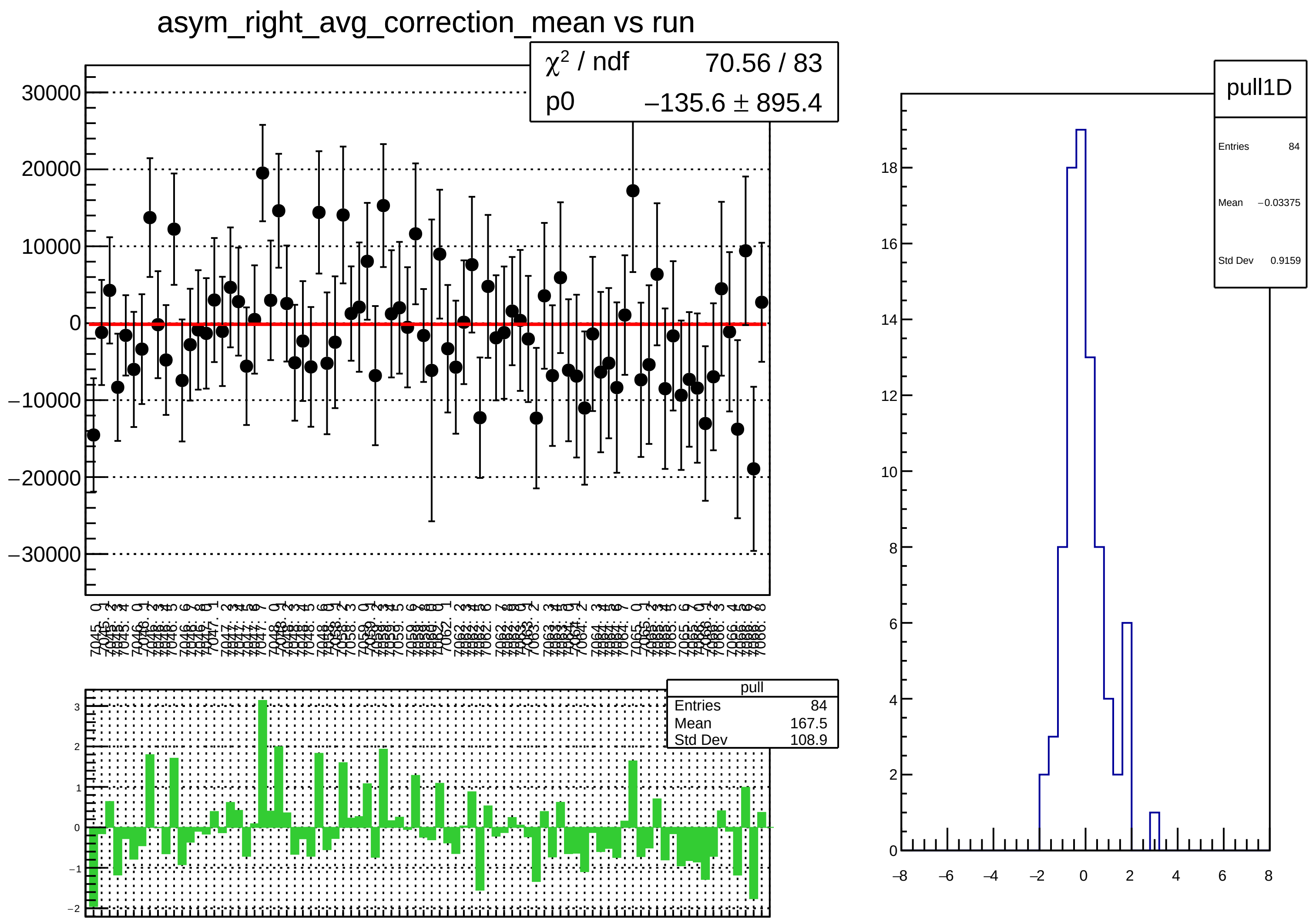
asym_left_dd_mean vs run
χ² / ndf 90.35 / 83
p0 3145 ± 1112
pull
Entries 84
Mean 300.2
Std Dev 252
pull1D
Entries 84
Mean 0.03087
Std Dev 1.037

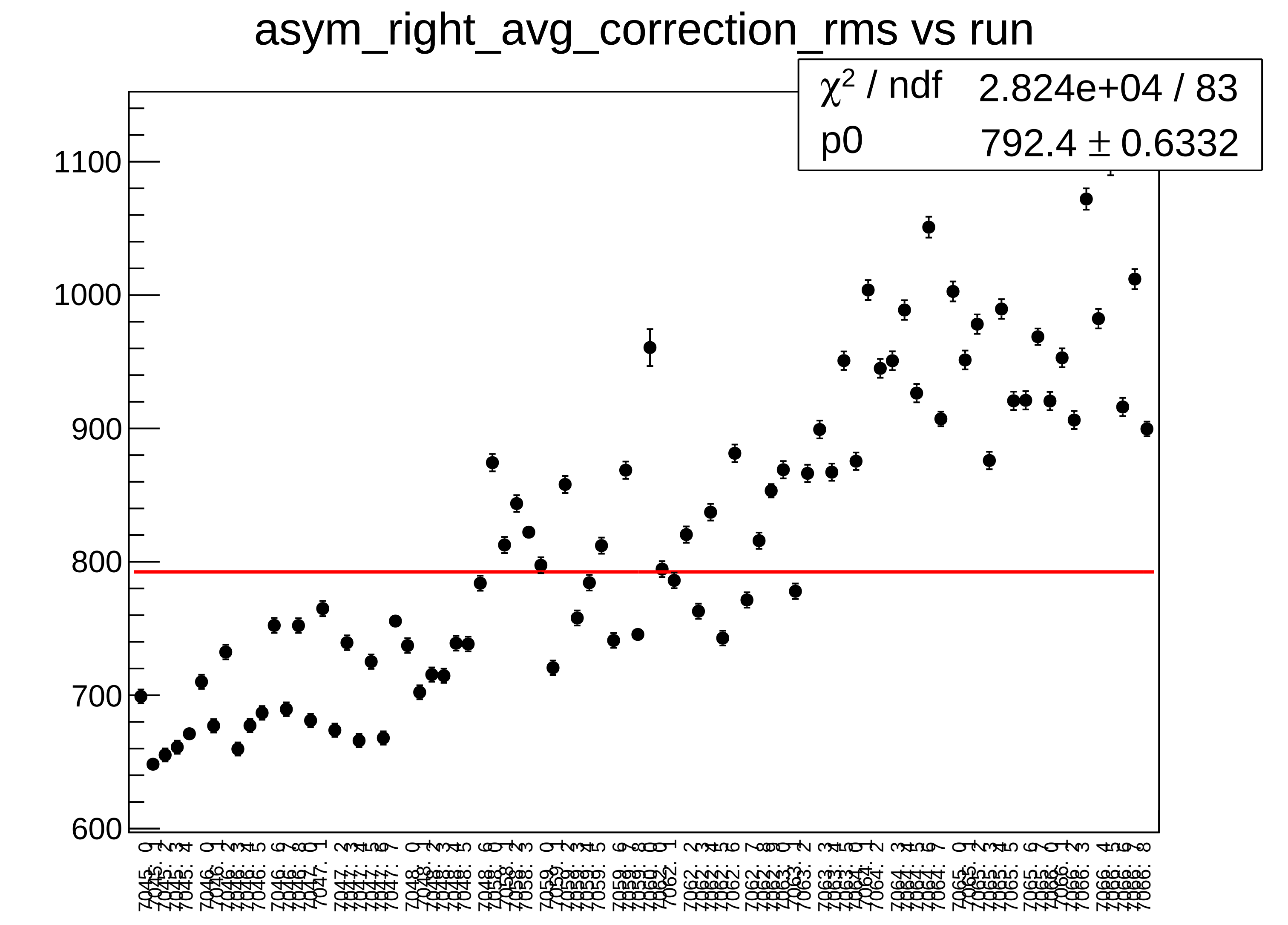

asym_left_dd_rms vs run
χ2 / ndf 1.153e+04 / 83
p0 988.9 ± 0.786
1200
1150
1100
1050
1000
950
900
850



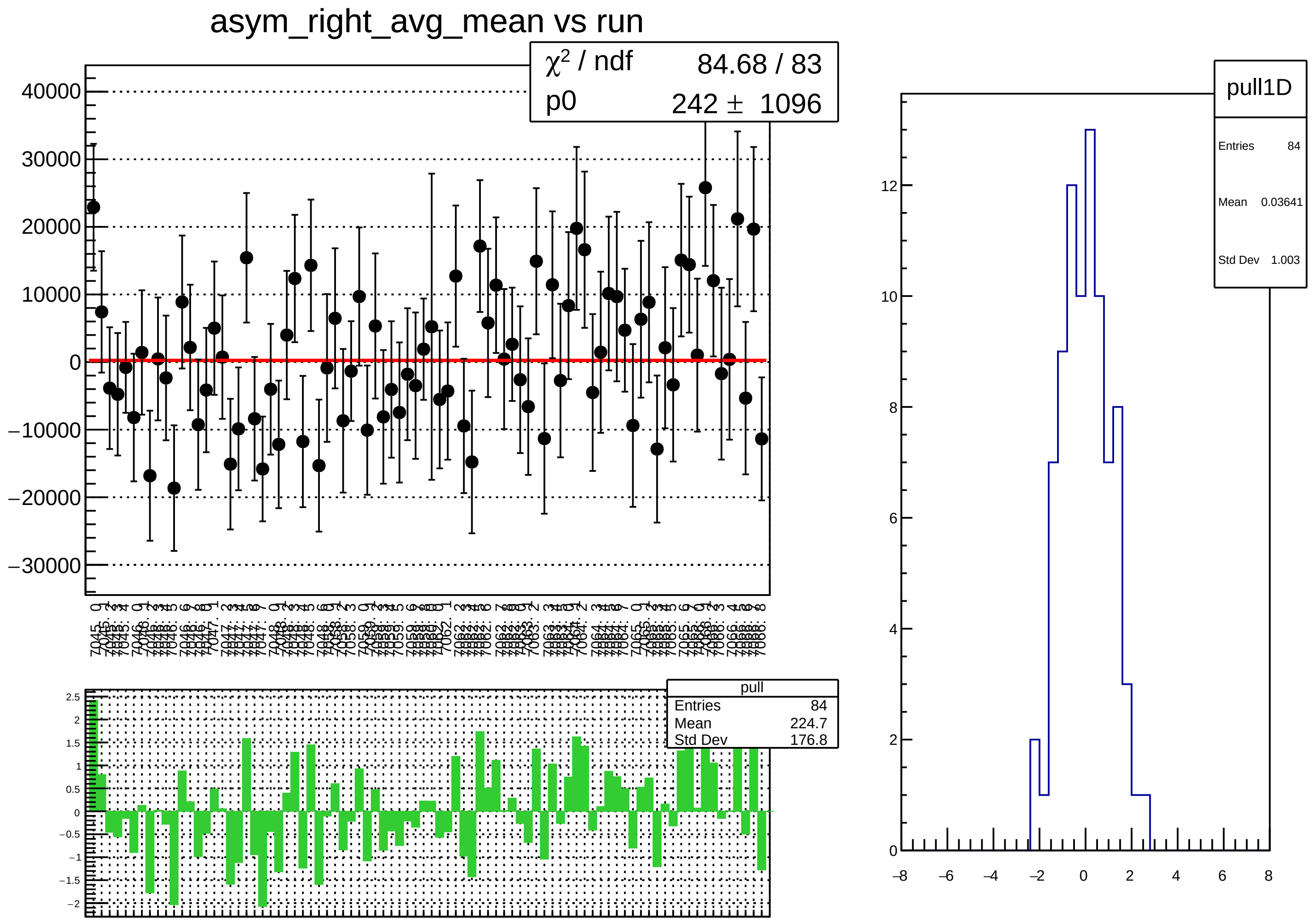
reg_asym_right_avg_mean vs run
$\chi^2$ / ndf 108.4 / 83
p0 310.6 ± 616.9
pull
Entries 84
Mean −1292
Std Dev 1329
pull1D
Entries 84
Mean −0.003994
Std Dev 1.136


reg_asym_right_avg_rms vs run
χ2 / ndf 99.2 / 83
p0 550.8 ± 0.4362
565
560
555
550
545
540
535
530

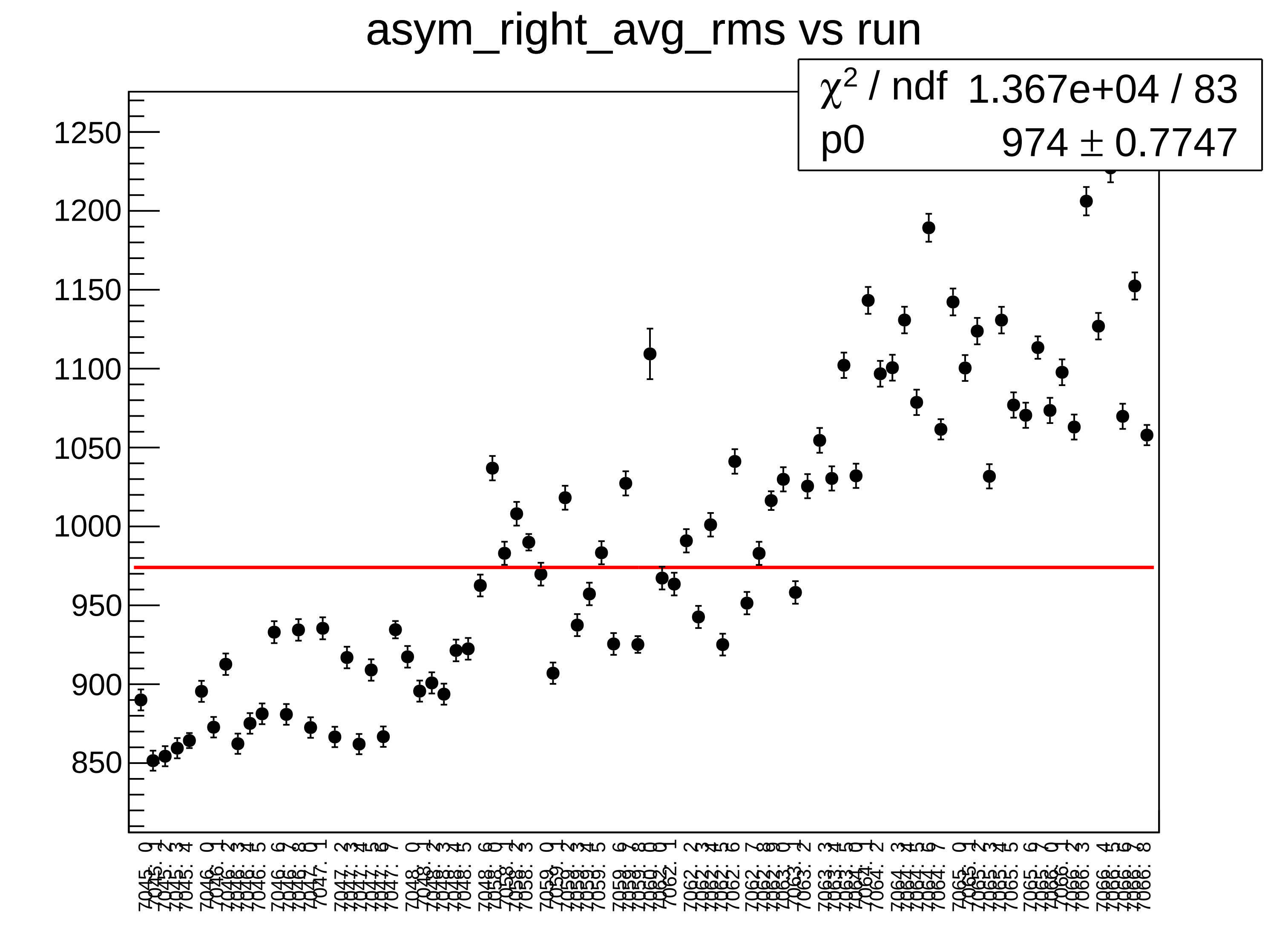

asym_right_avg_correction_mean vs run
$\chi^2$ / ndf 70.56 / 83
p0 −135.6 ± 895.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 167.5
Std Dev 108.9
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.03375
Std Dev 0.9159
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

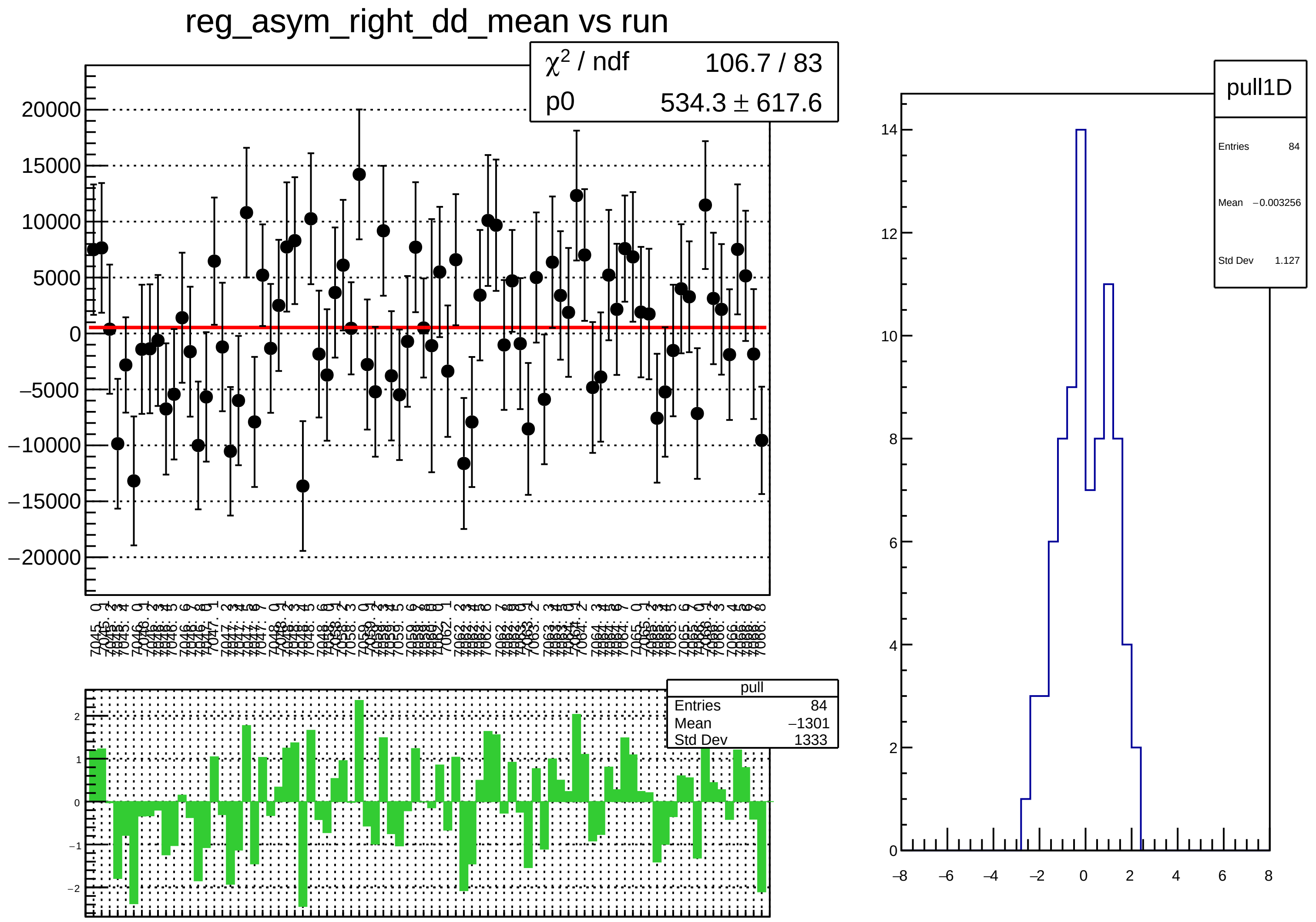


asym_right_avg_correction_rms vs run
$\chi^2$ / ndf 2.824e+04 / 83
p0 792.4 ± 0.6332
1100
1000
900
800
700
600

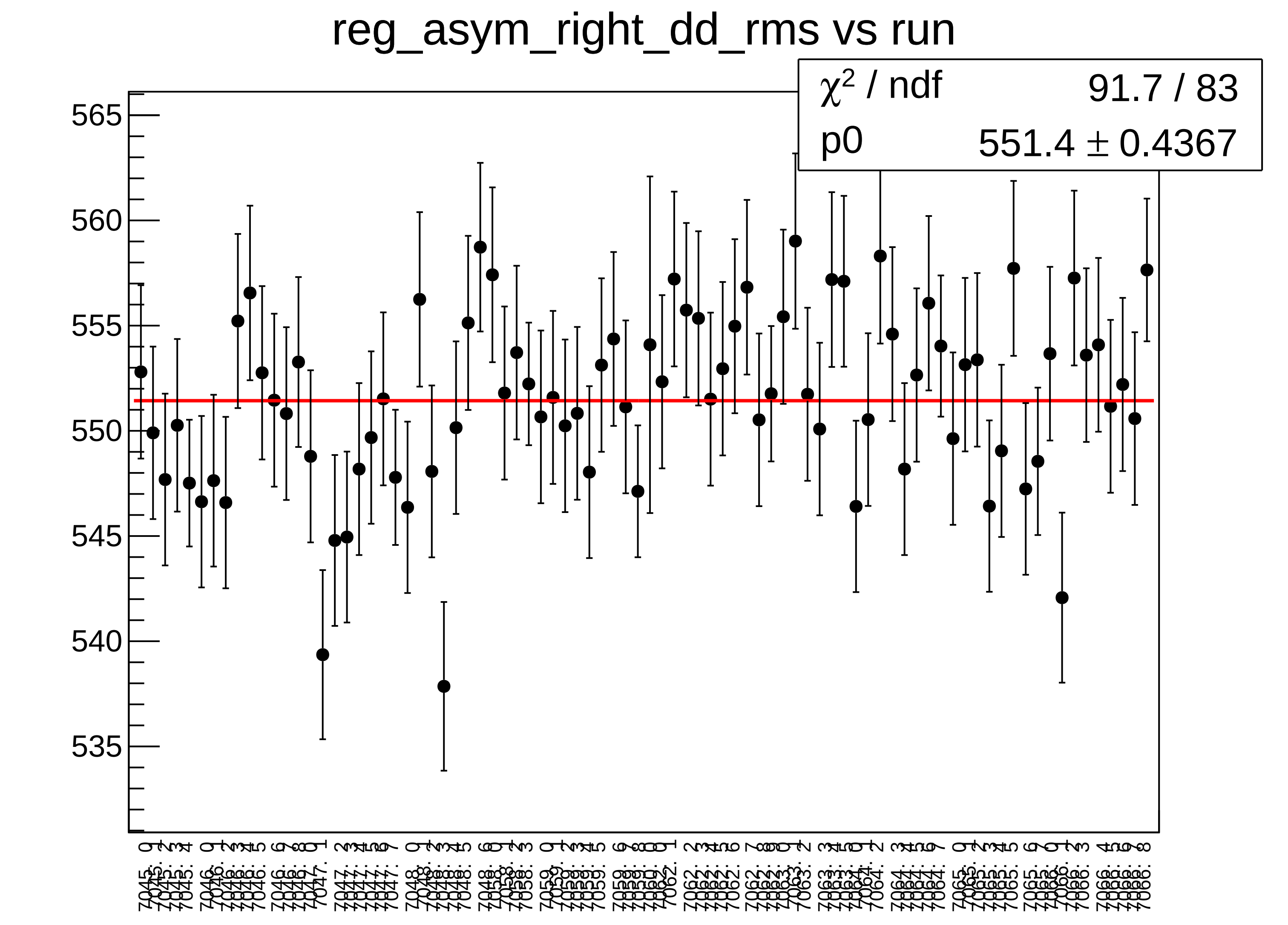


asym_right_avg_mean vs run
$\chi^2$ / ndf 84.68 / 83
p0 242 ± 1096
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 224.7
Std Dev 176.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.03641
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

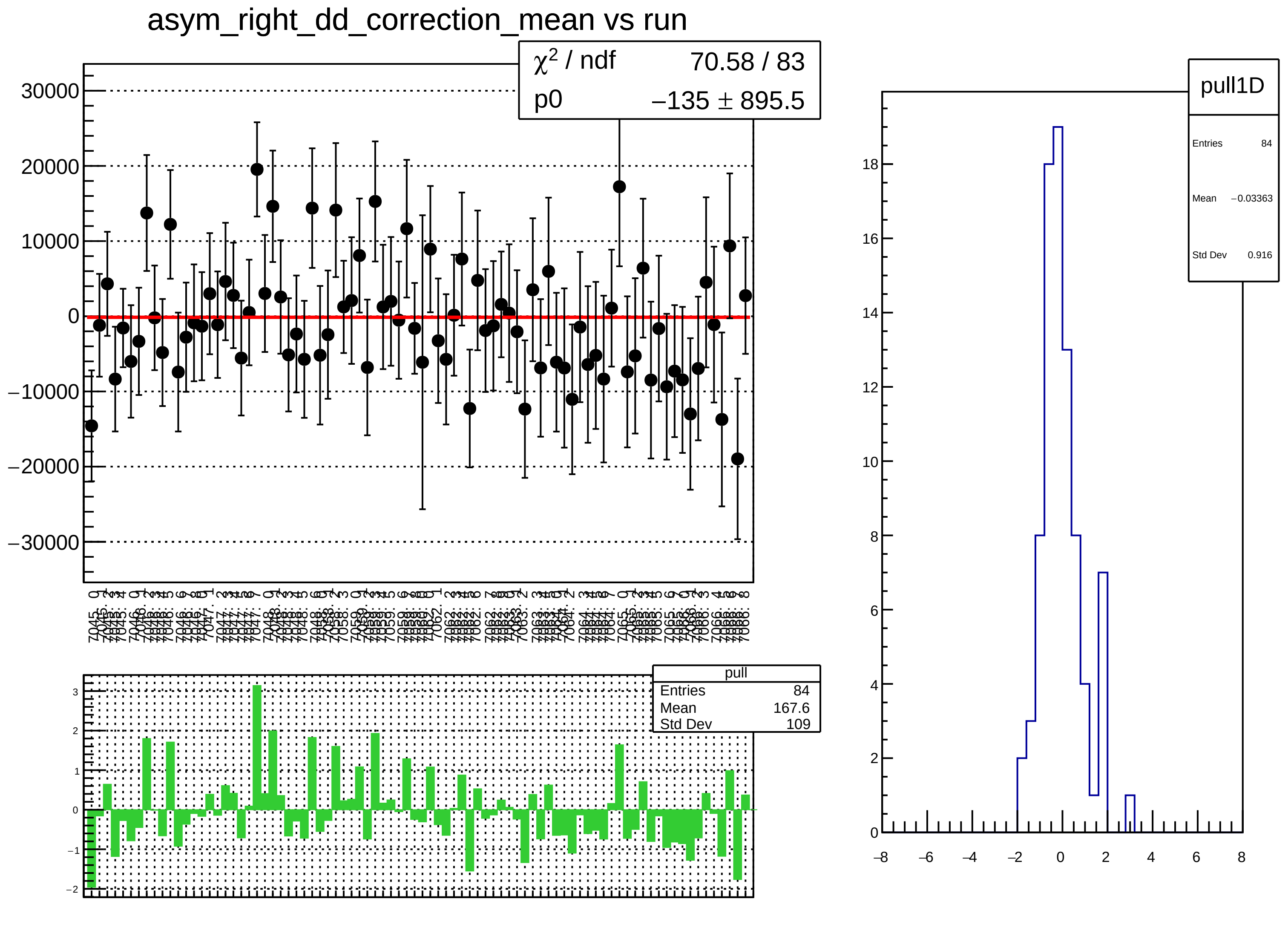

asym_right_avg_rms vs run
$\chi^2$ / ndf 1.367e+04 / 83
p0 974 ± 0.7747
1250
1200
1150
1100
1050
1000
950
900
850



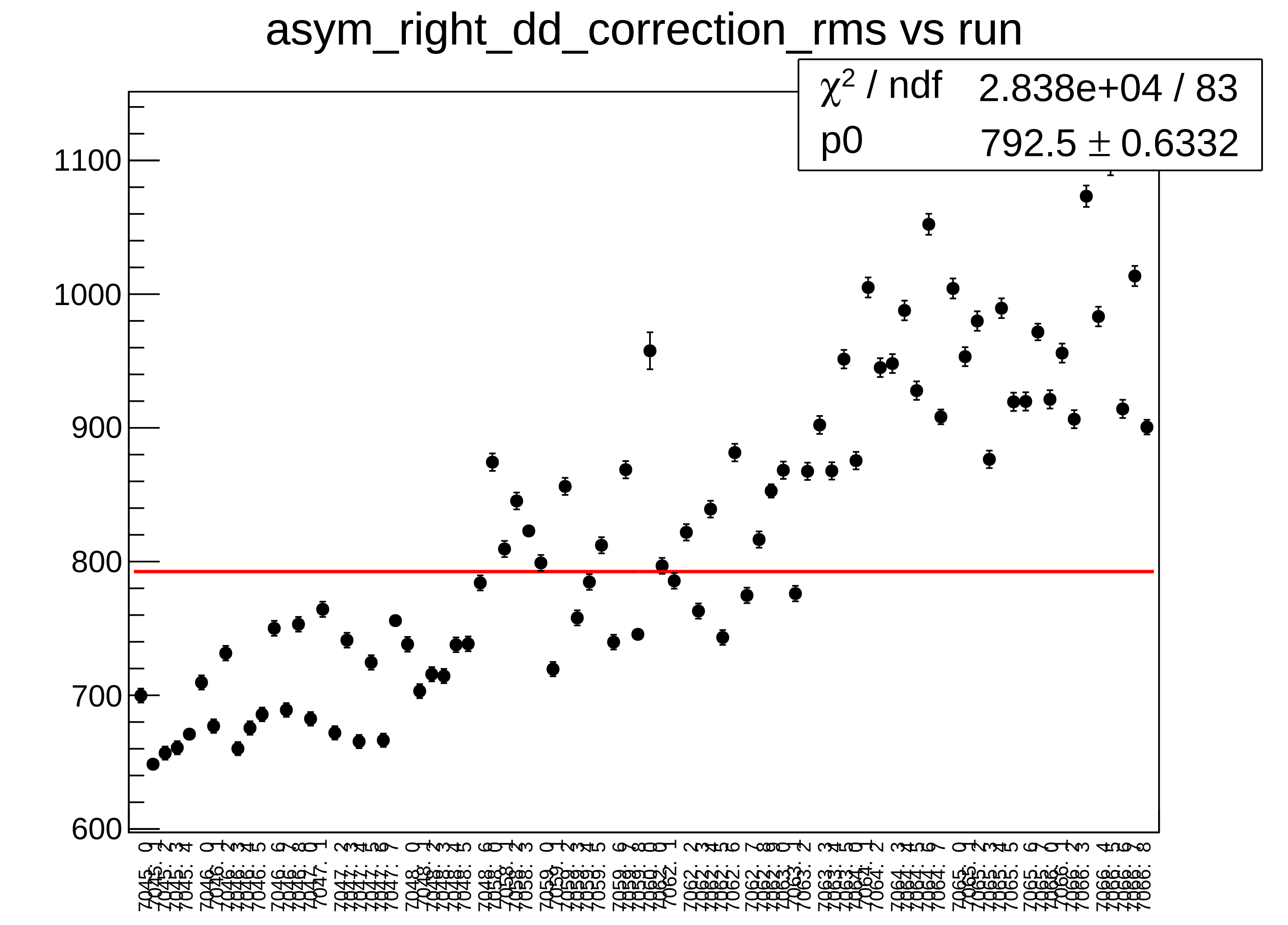
reg_asym_right_dd_mean vs run
$\chi^2$ / ndf 106.7 / 83
p0 534.3 ± 617.6
pull
Entries 84
Mean −1301
Std Dev 1333
pull1D
Entries 84
Mean −0.003256
Std Dev 1.127



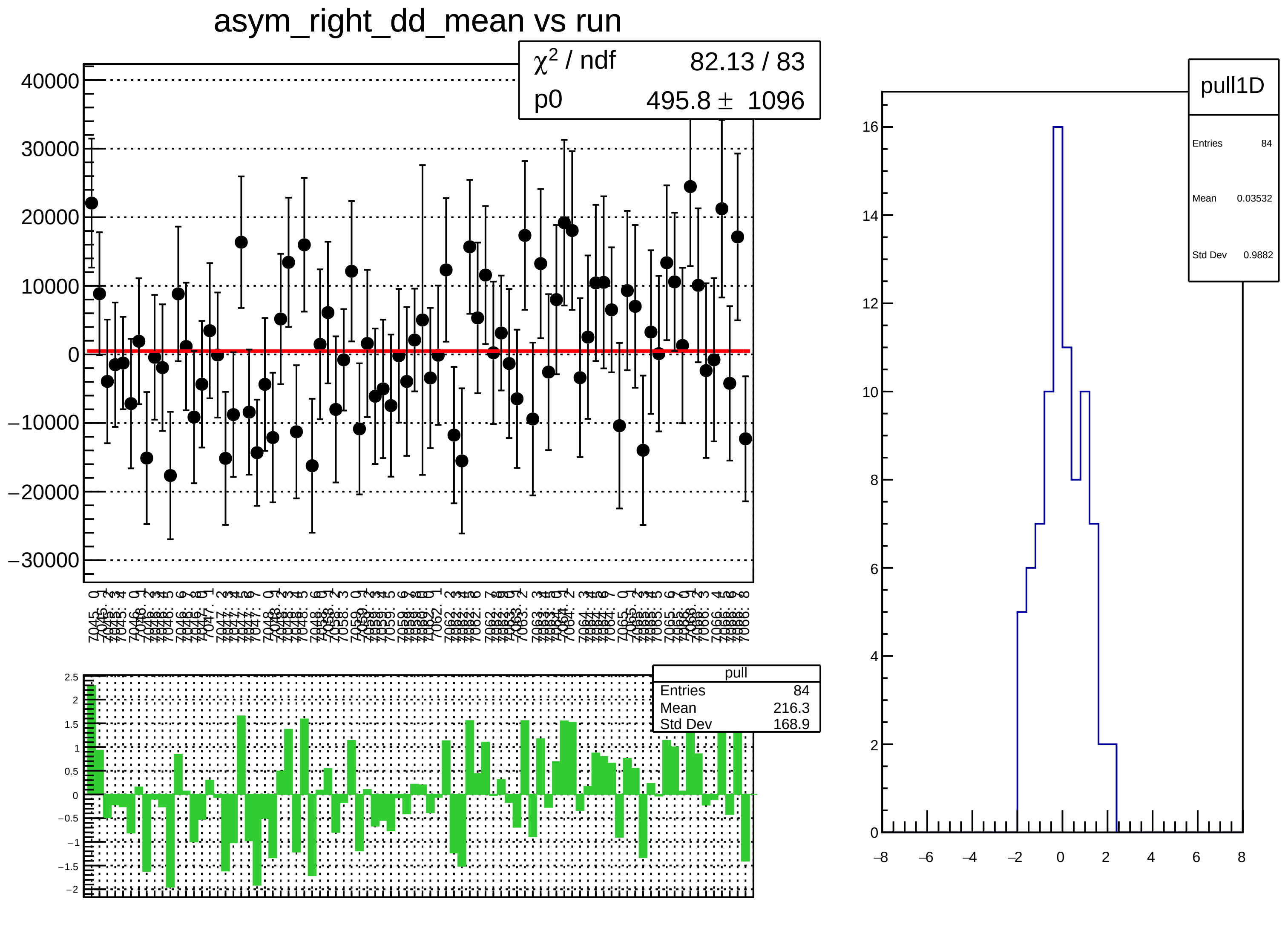
reg_asym_right_dd_rms vs run
$\chi^2$ / ndf 91.7 / 83
p0 551.4 ± 0.4367
565
560
555
550
545
540
535

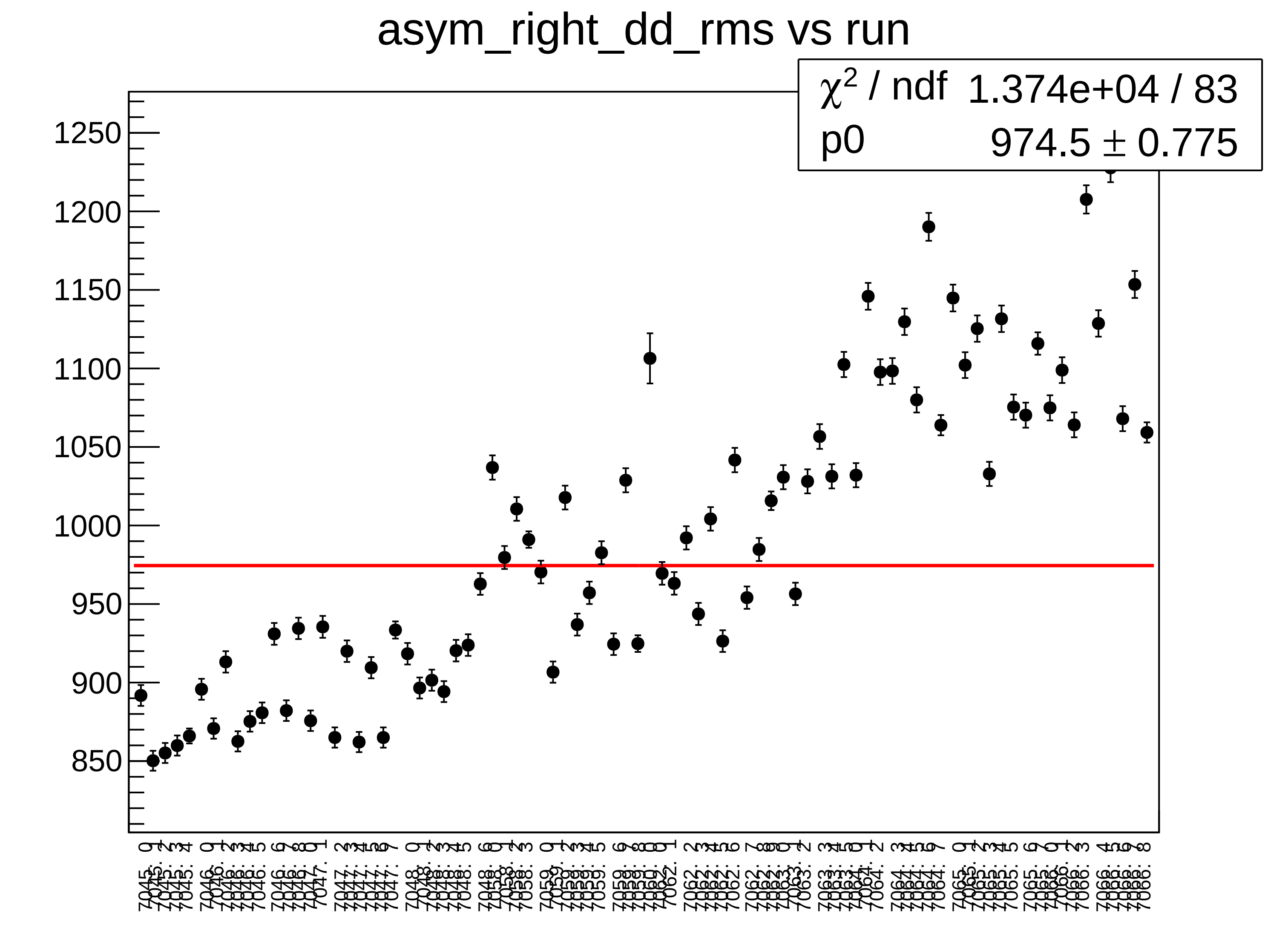


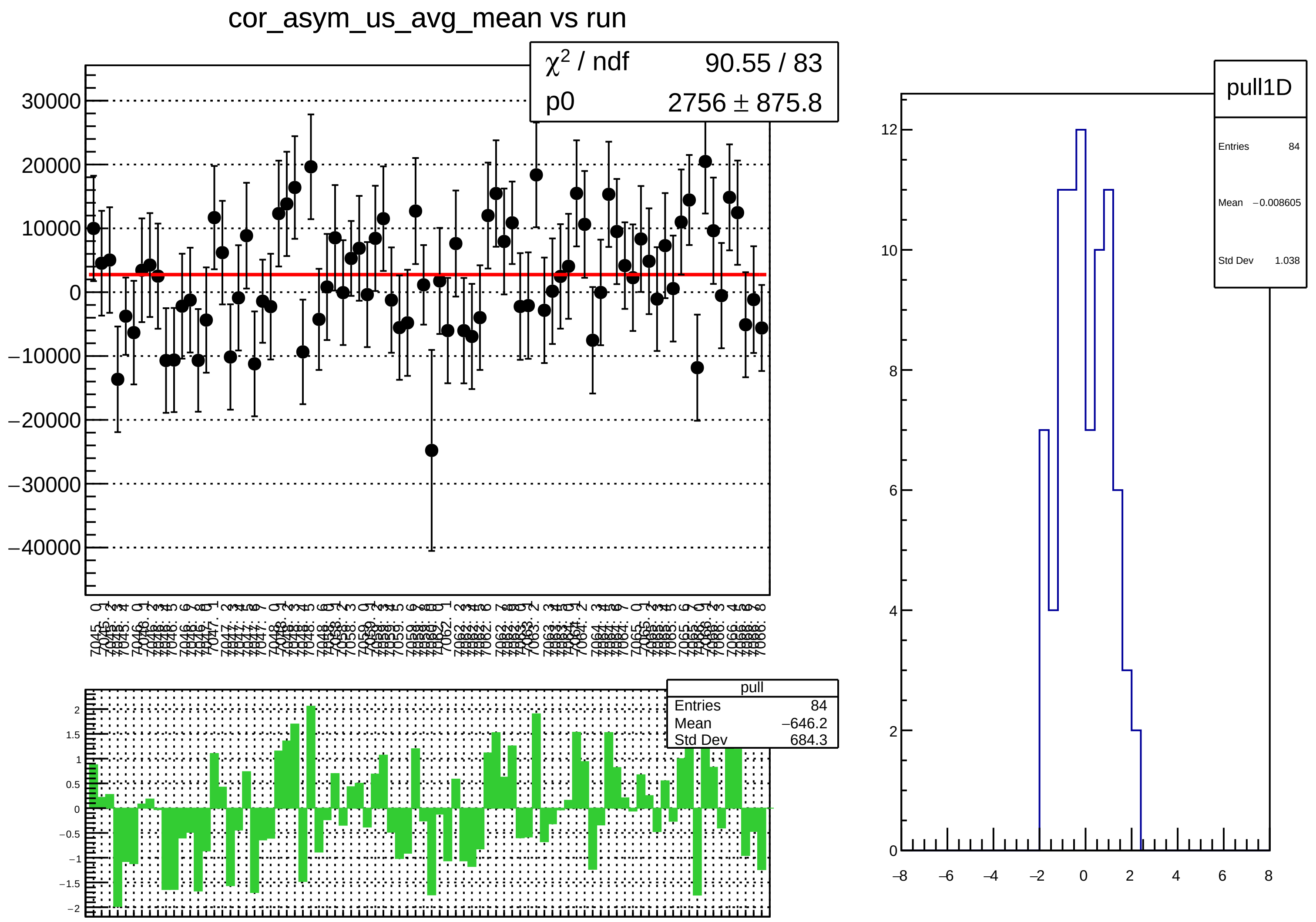
asym_right_dd_correction_mean vs run
$\chi^2$ / ndf 70.58 / 83
p0 −135 ± 895.5
pull
Entries 84
Mean 167.6
Std Dev 109
pull1D
Entries 84
Mean −0.03363
Std Dev 0.916



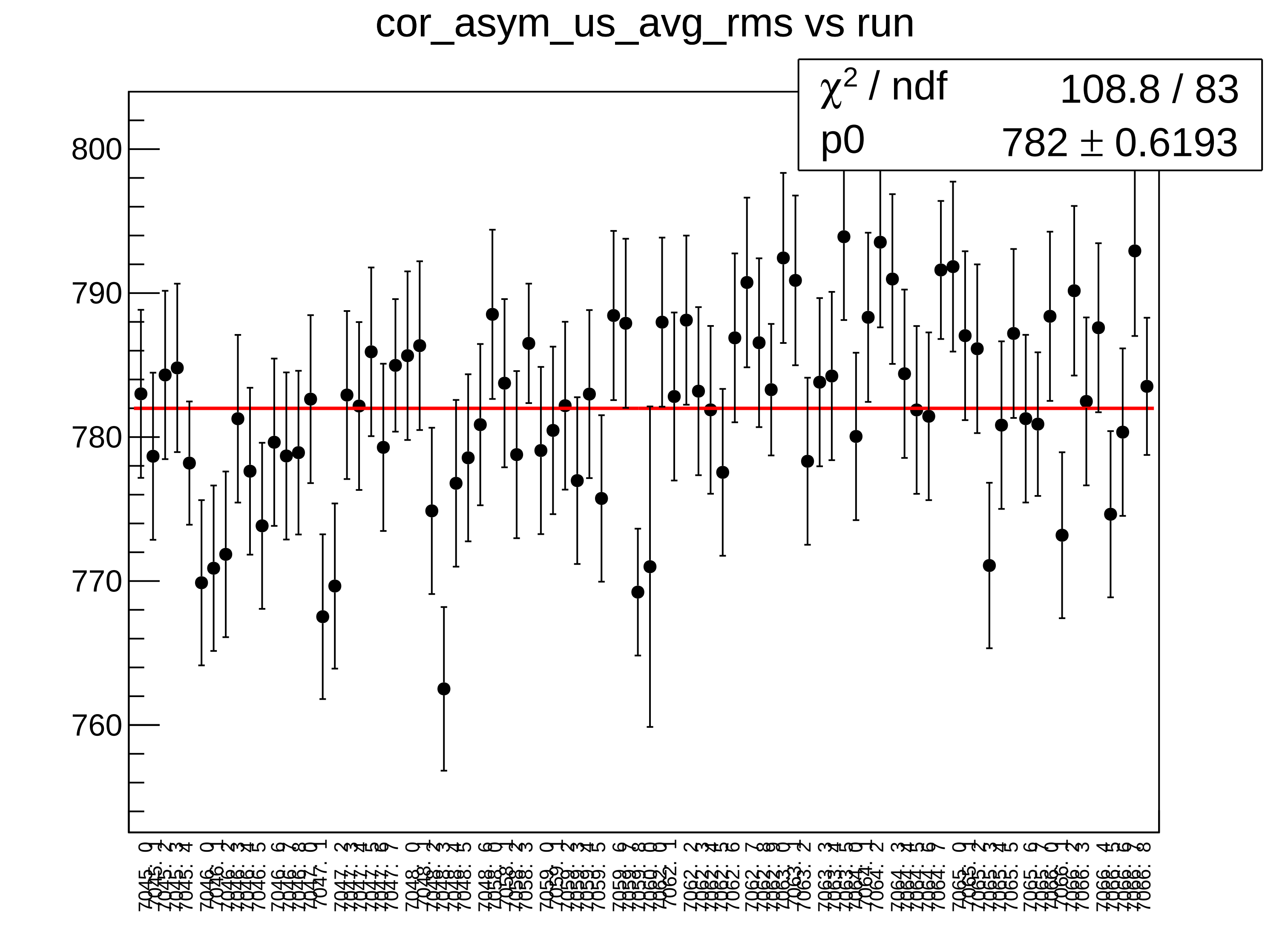
asym_right_dd_correction_rms vs run
$\chi^2$ / ndf 2.838e+04 / 83
p0 792.5 ± 0.6332
1100
1000
900
800
700
600

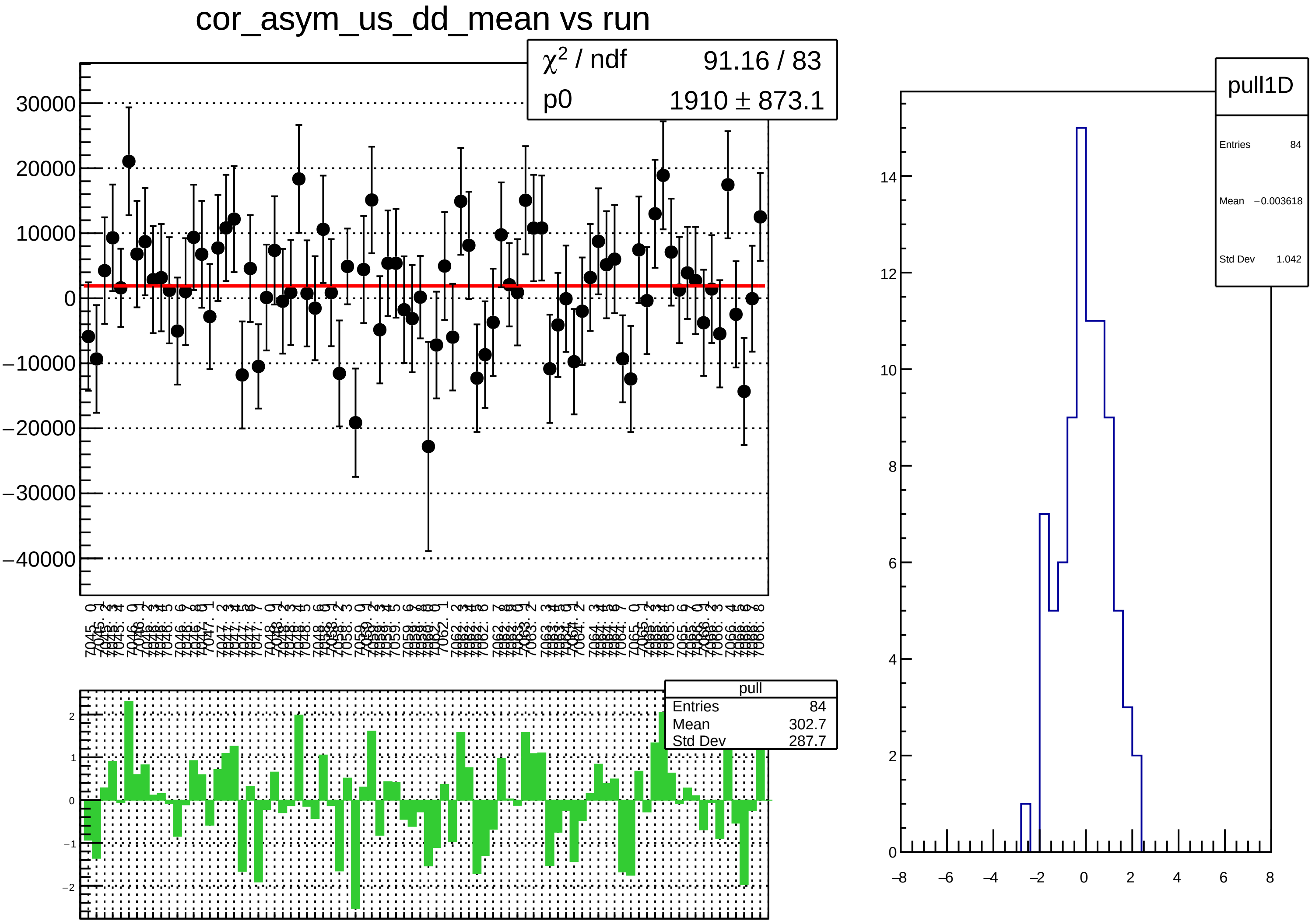

asym_right_dd_mean vs run
$\chi^2$ / ndf 82.13 / 83
p0 495.8 ± 1096
pull
Entries 84
Mean 216.3
Std Dev 168.9
pull1D
Entries 84
Mean 0.03532
Std Dev 0.9882

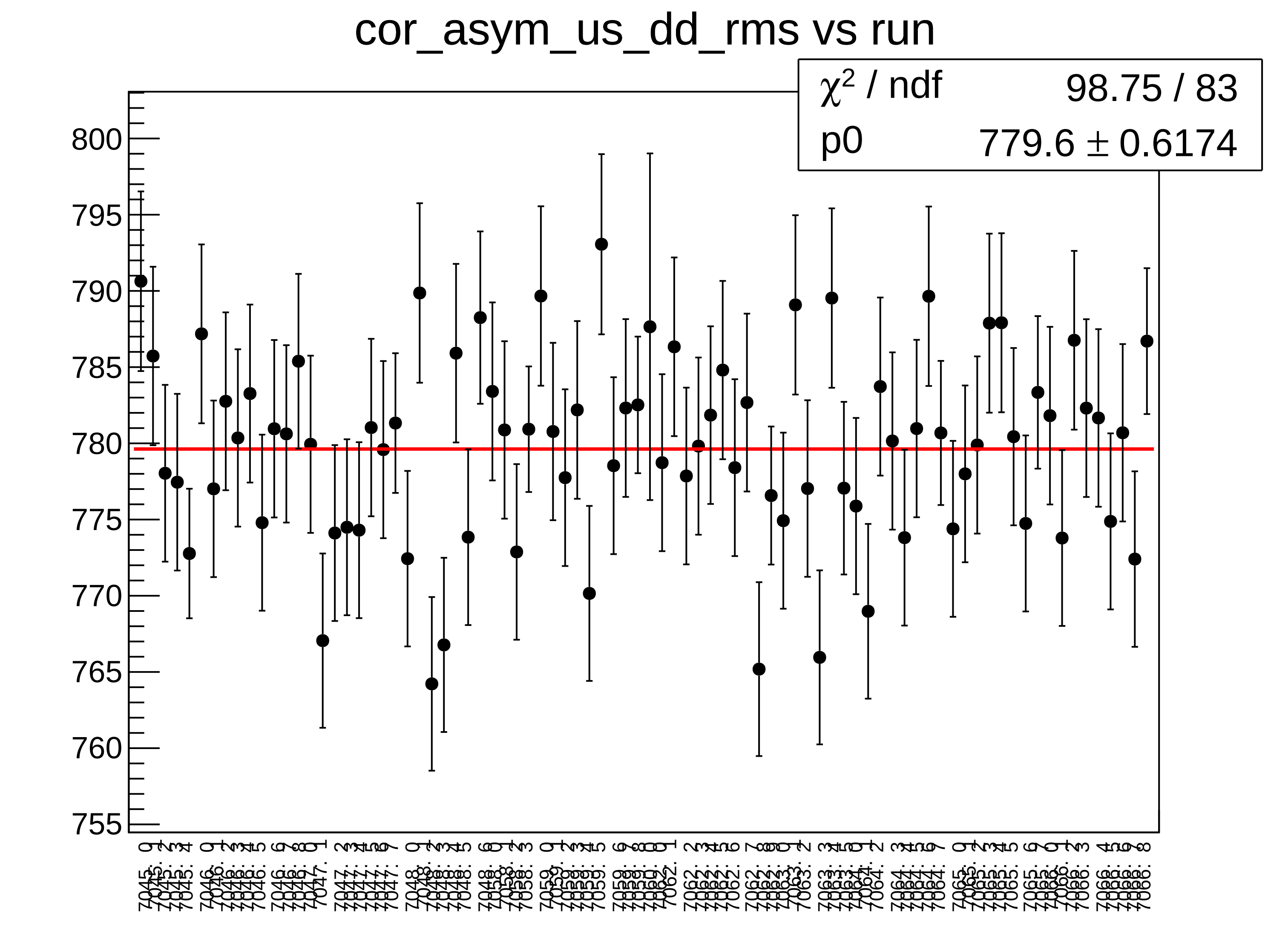

asym_right_dd_rms vs run
$\chi^2$ / ndf 1.374e+04 / 83
p0 974.5 ± 0.775
1250
1200
1150
1100
1050
1000
950
900
850

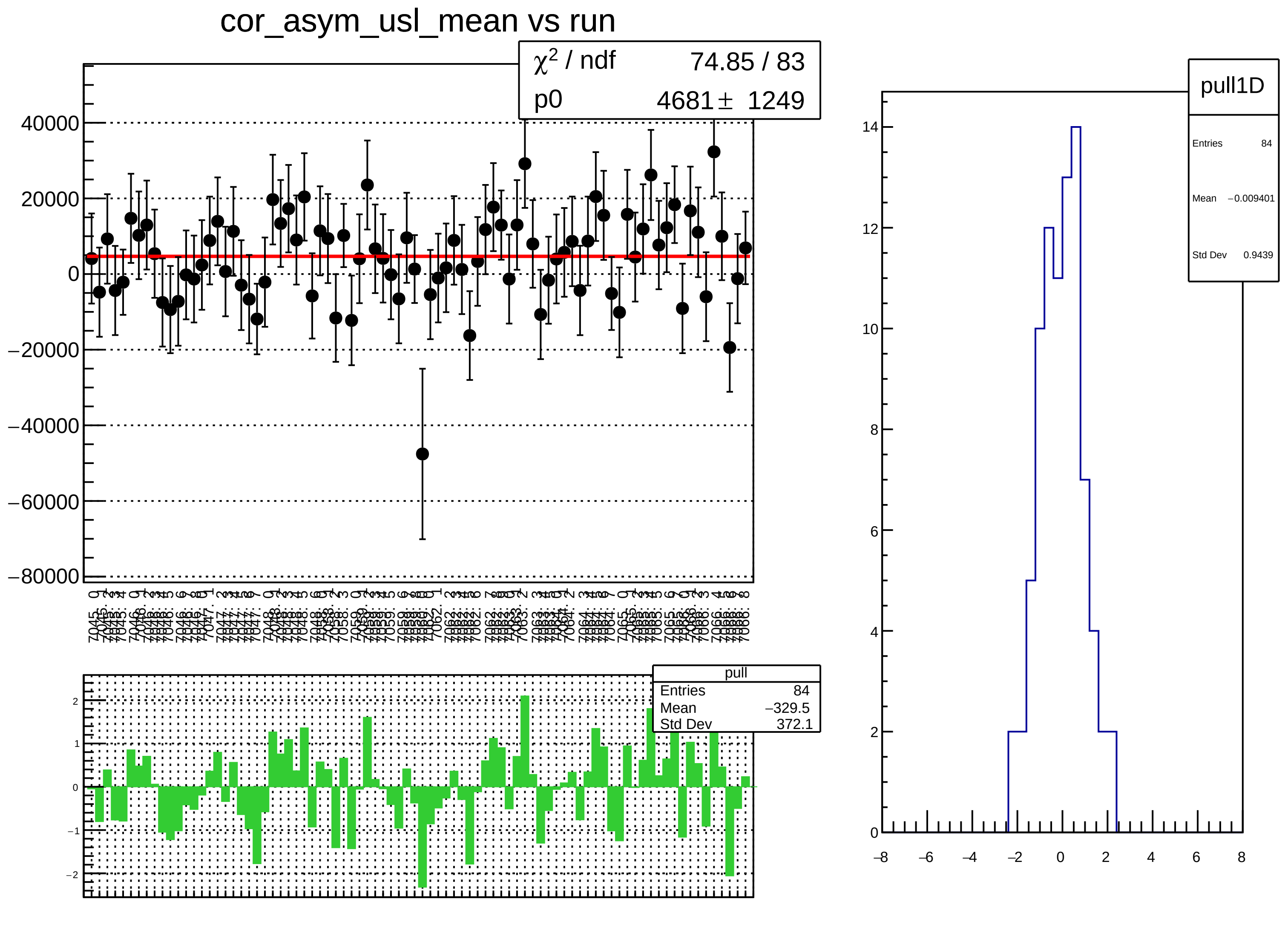


cor_asym_us_avg_mean vs run
$\chi^2$ / ndf 90.55 / 83
p0 2756 ± 875.8
pull
Entries 84
Mean −646.2
Std Dev 684.3
pull1D
Entries 84
Mean −0.008605
Std Dev 1.038

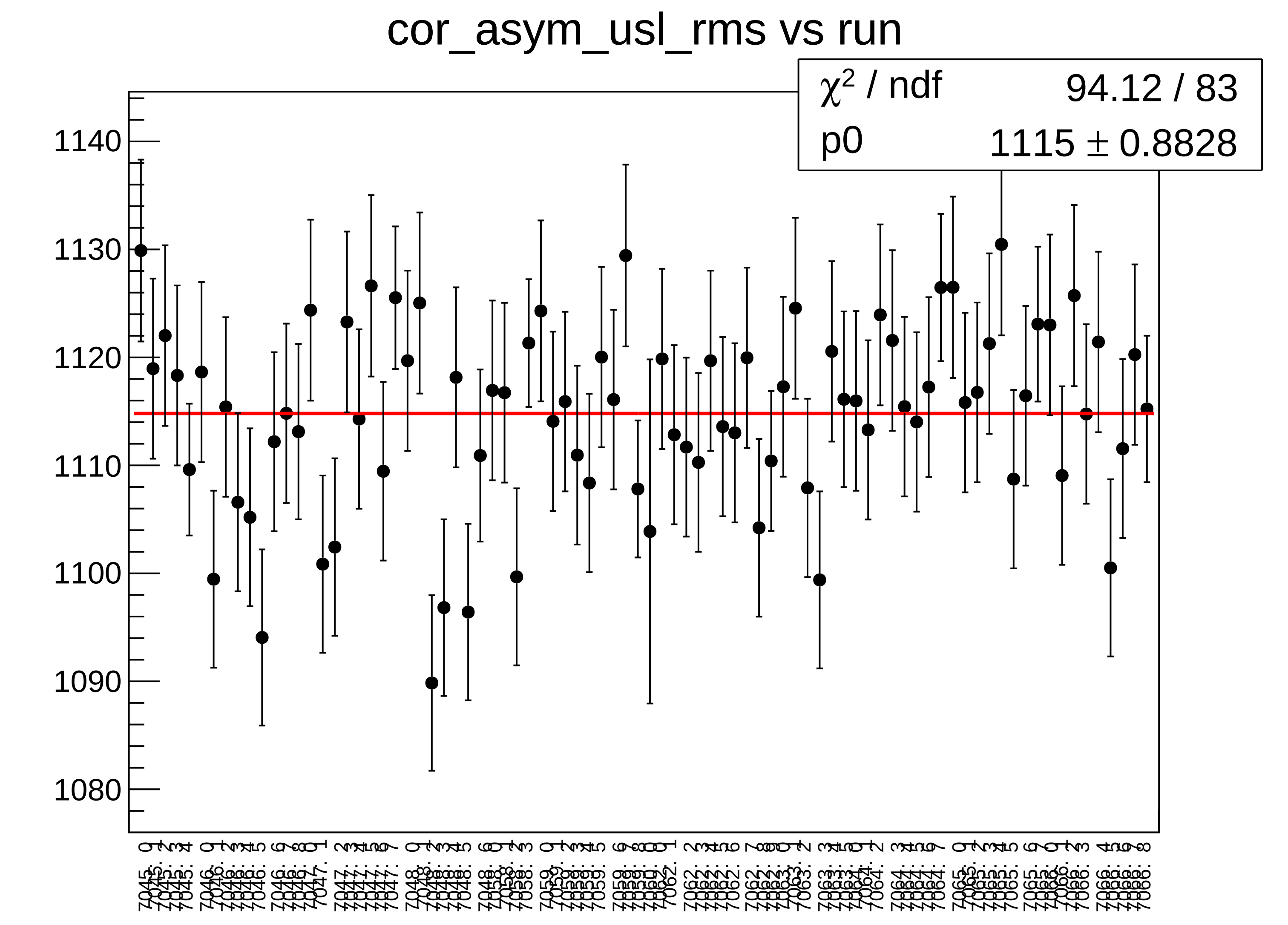

cor_asym_us_avg_rms vs run
$\chi^2$ / ndf 108.8 / 83
p0 782 ± 0.6193
800
790
780
770
760


cor_asym_us_dd_mean vs run
$\chi^2$ / ndf 91.16 / 83
p0 1910 ± 873.1
pull
Entries 84
Mean 302.7
Std Dev 287.7
pull1D
Entries 84
Mean −0.003618
Std Dev 1.042

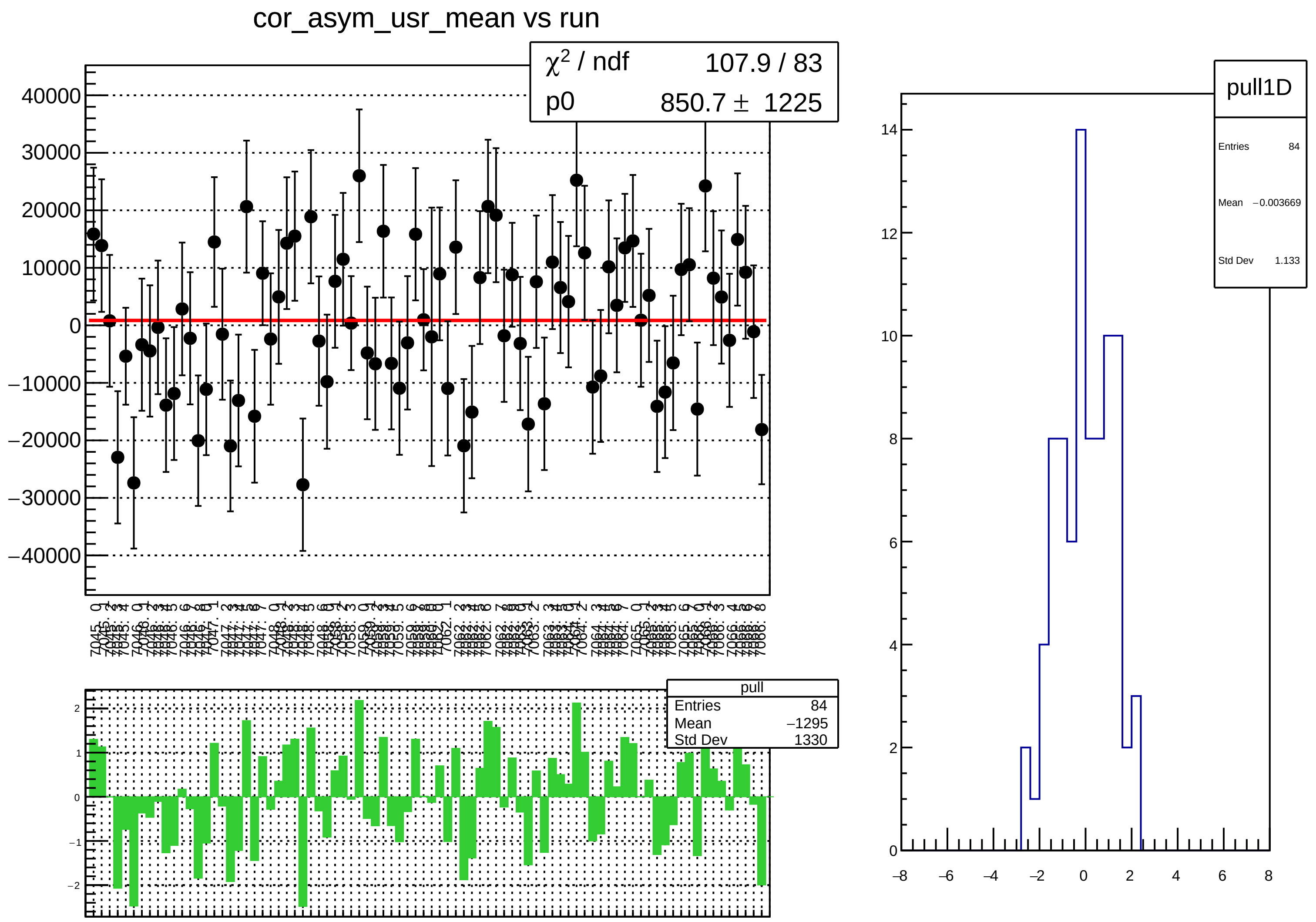

cor_asym_us_dd_rms vs run
$\chi^2$ / ndf 98.75 / 83
p0 779.6 ± 0.6174
800
795
790
785
780
775
770
765
760
755



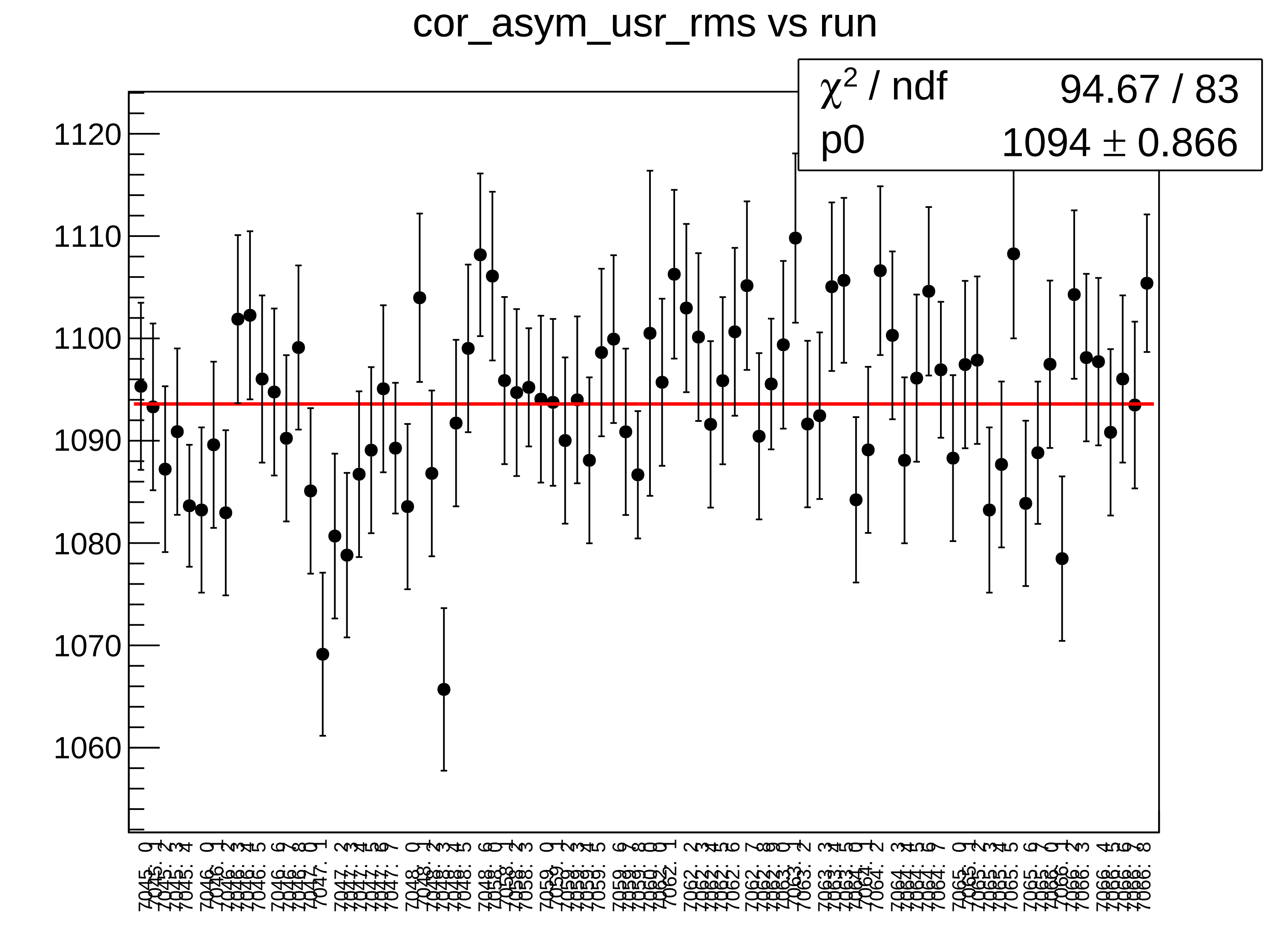
cor_asym_usl_mean vs run
$\chi^2$ / ndf 74.85 / 83
p0 4681 ± 1249
pull
Entries 84
Mean −329.5
Std Dev 372.1
pull1D
Entries 84
Mean −0.009401
Std Dev 0.9439

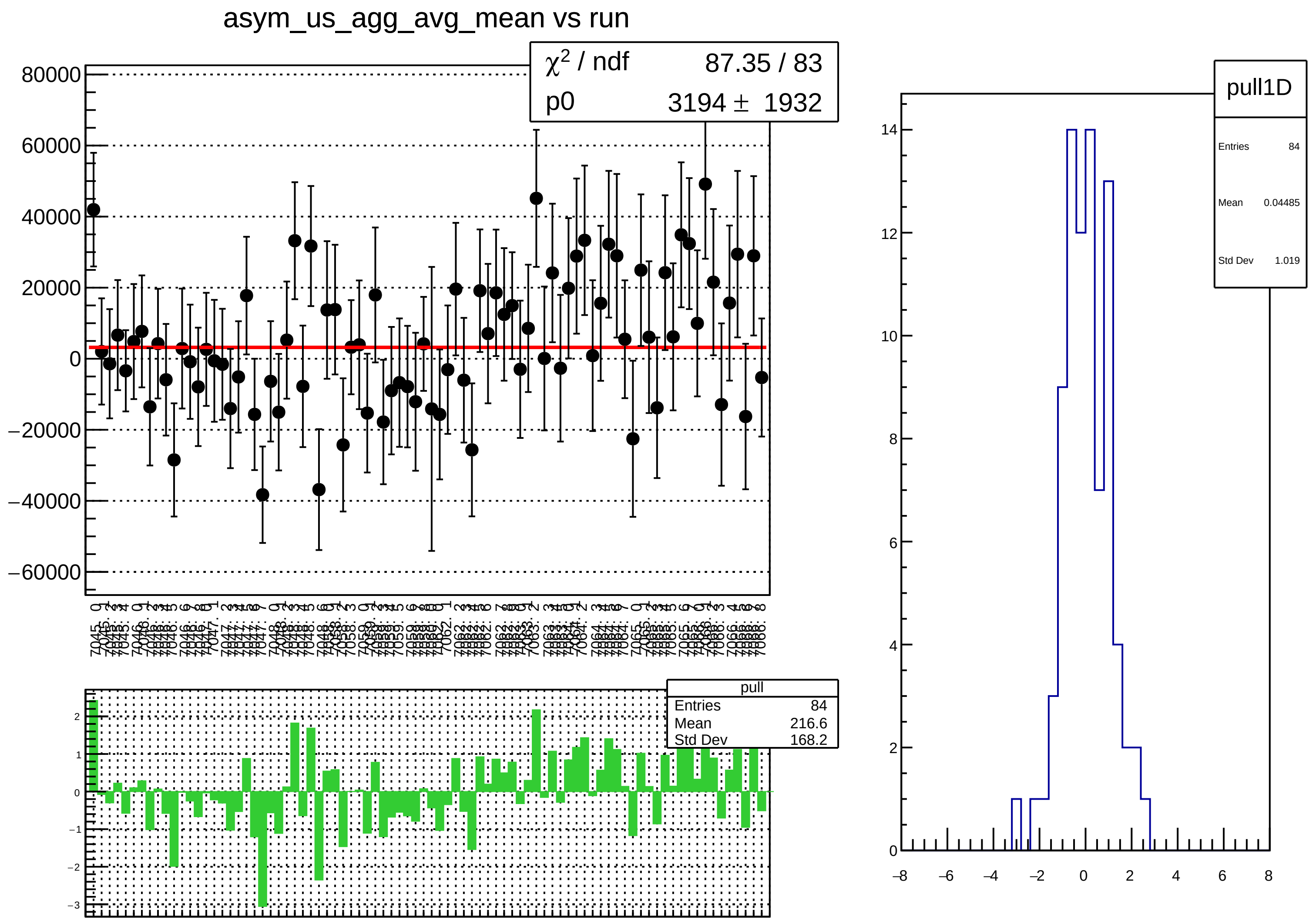


cor_asym_usl_rms vs run
$\chi^2$ / ndf 94.12 / 83
p0 1115 ± 0.8828
1140
1130
1120
1110
1100
1090
1080

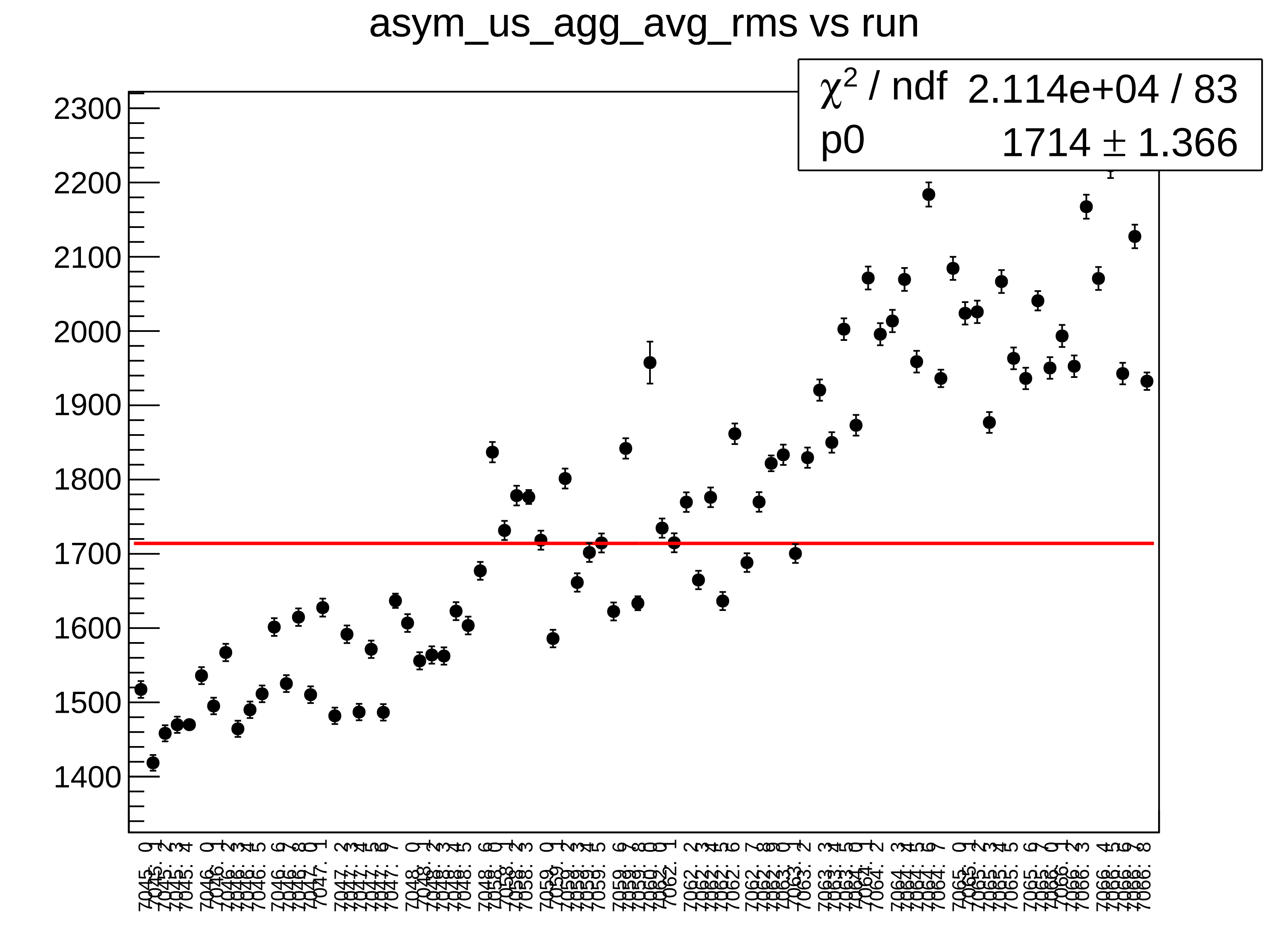


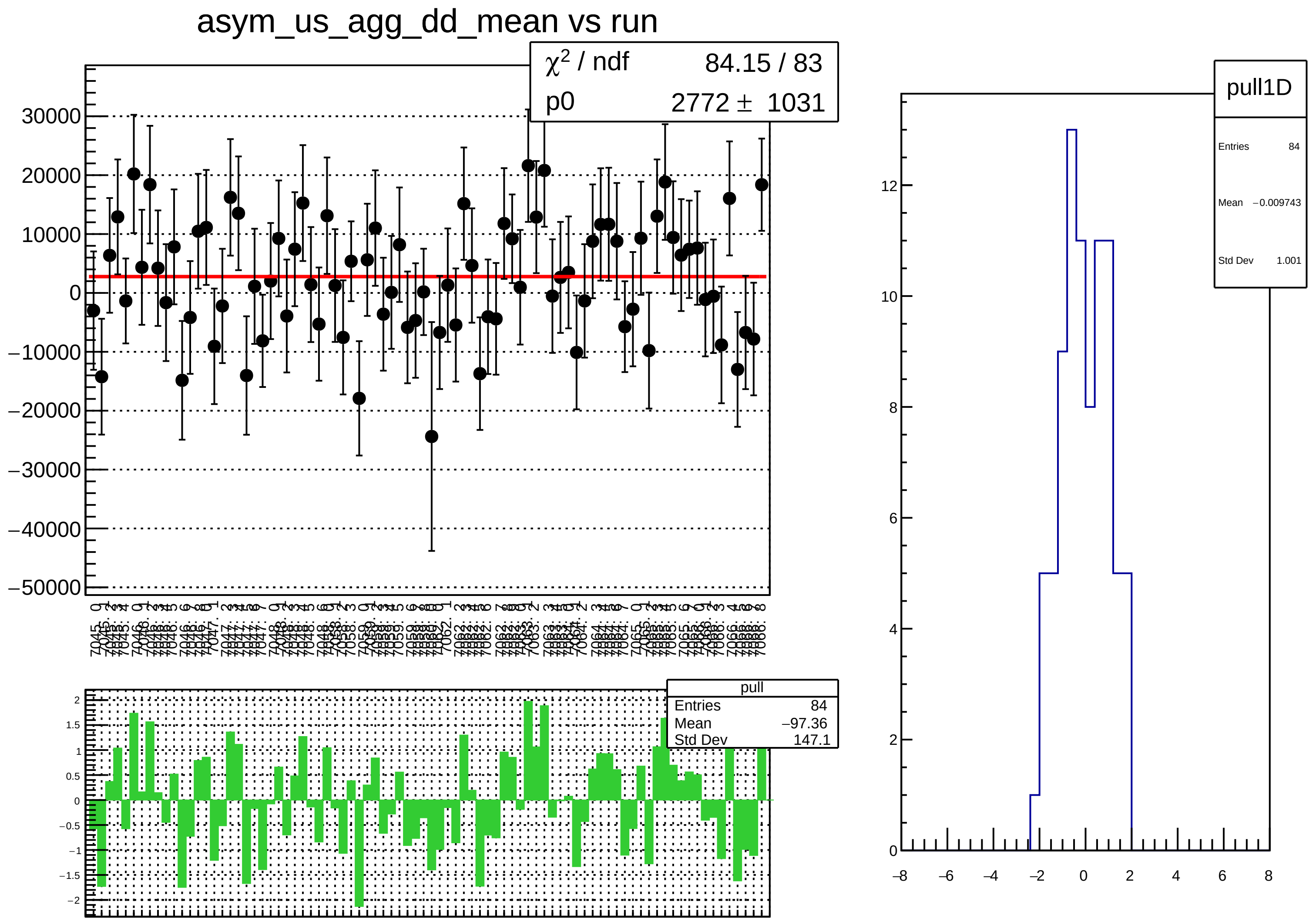
cor_asym_usr_mean vs run
χ2 / ndf 107.9 / 83
p0 850.7 ± 1225
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −1295
Std Dev 1330
pull1D
Entries 84
Mean −0.003669
Std Dev 1.133


cor_asym_usr_rms vs run
χ2 / ndf 94.67 / 83
p0 1094 ± 0.866
1120
1110
1100
1090
1080
1070
1060



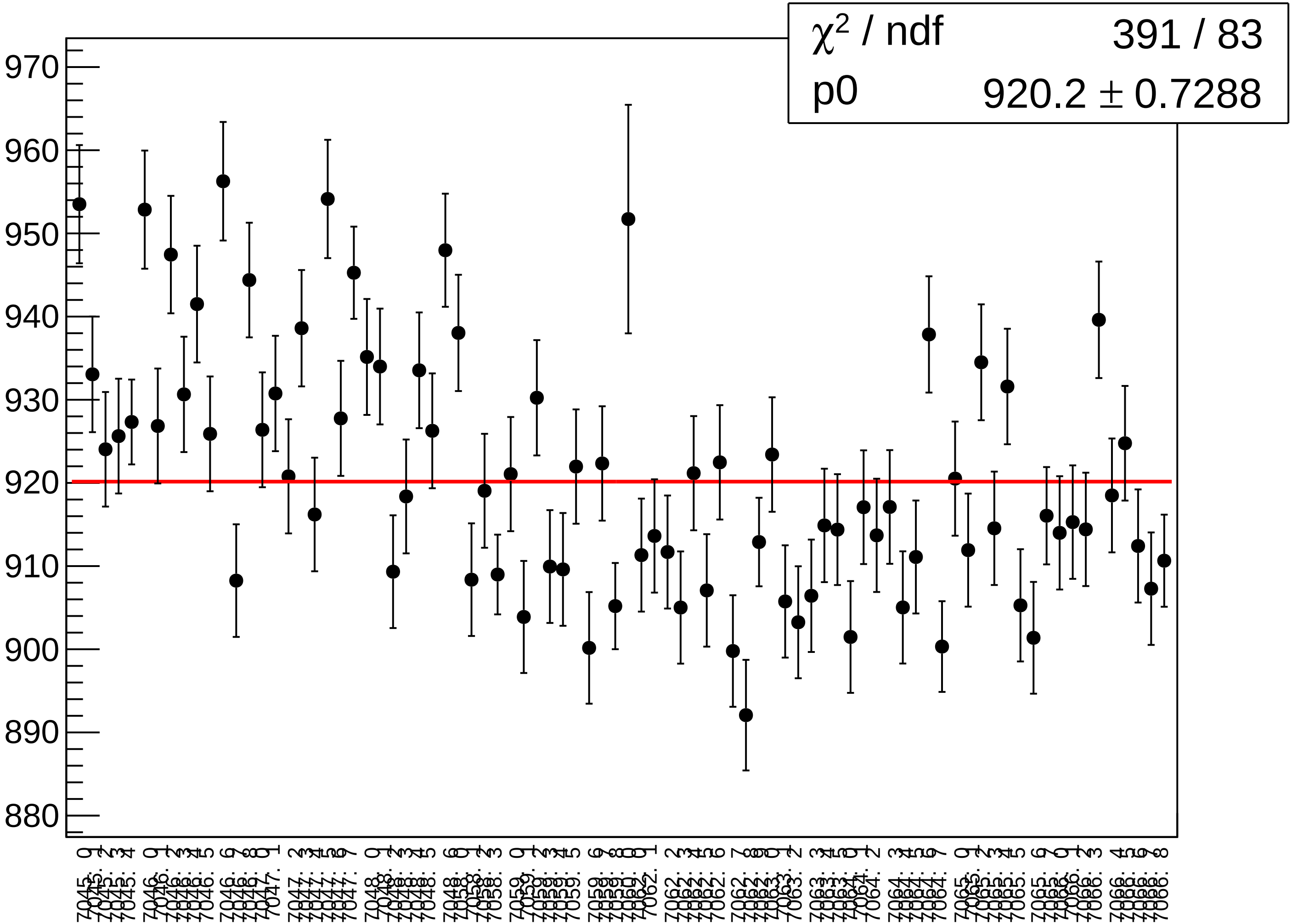
asym_us_agg_avg_mean vs run
χ2 / ndf 87.35 / 83
p0 3194 ± 1932
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 216.6
Std Dev 168.2
pull1D
Entries 84
Mean 0.04485
Std Dev 1.019

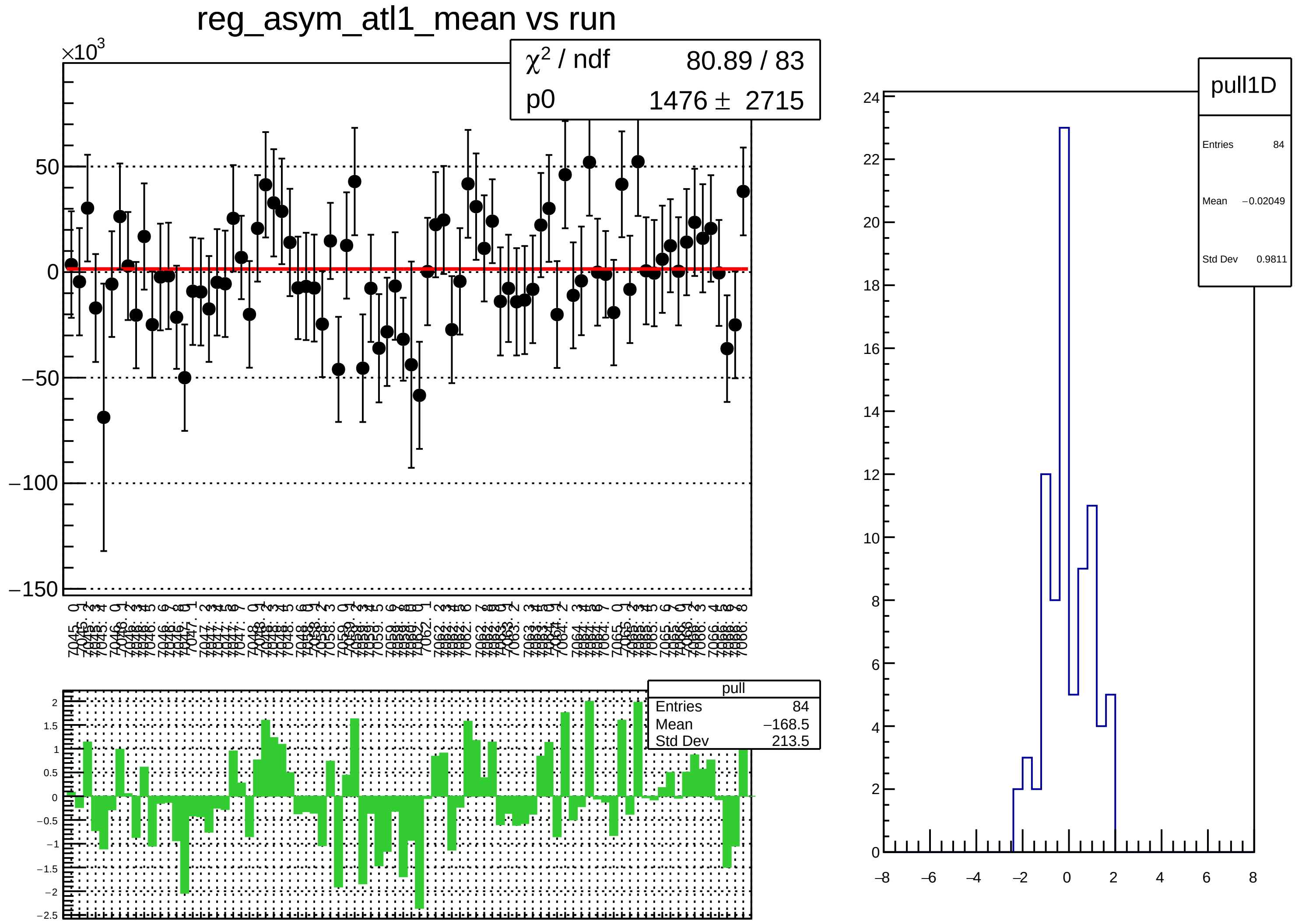

asym_us_agg_avg_rms vs run
χ2 / ndf 2.114e+04 / 83
p0 1714 ± 1.366
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

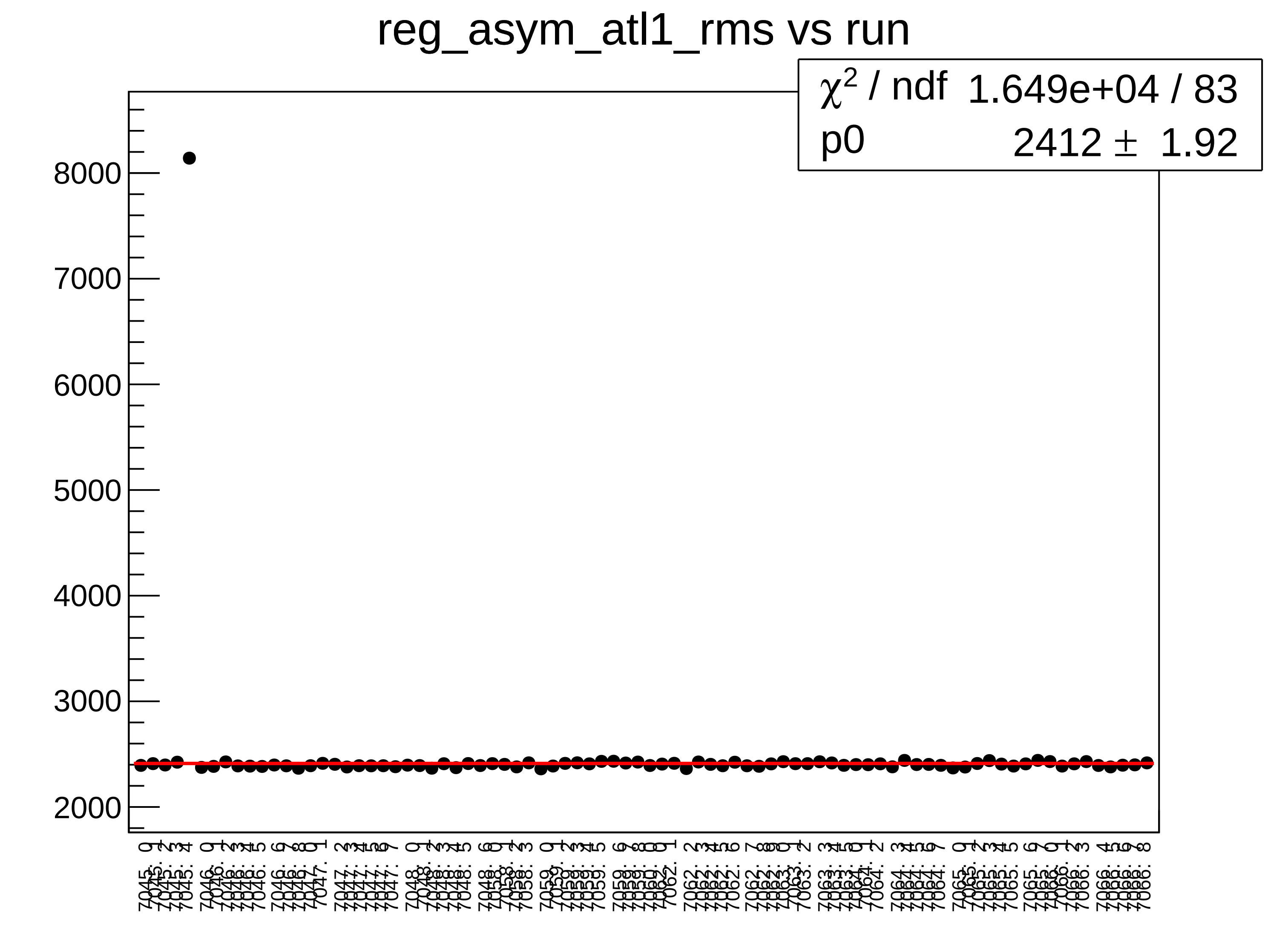


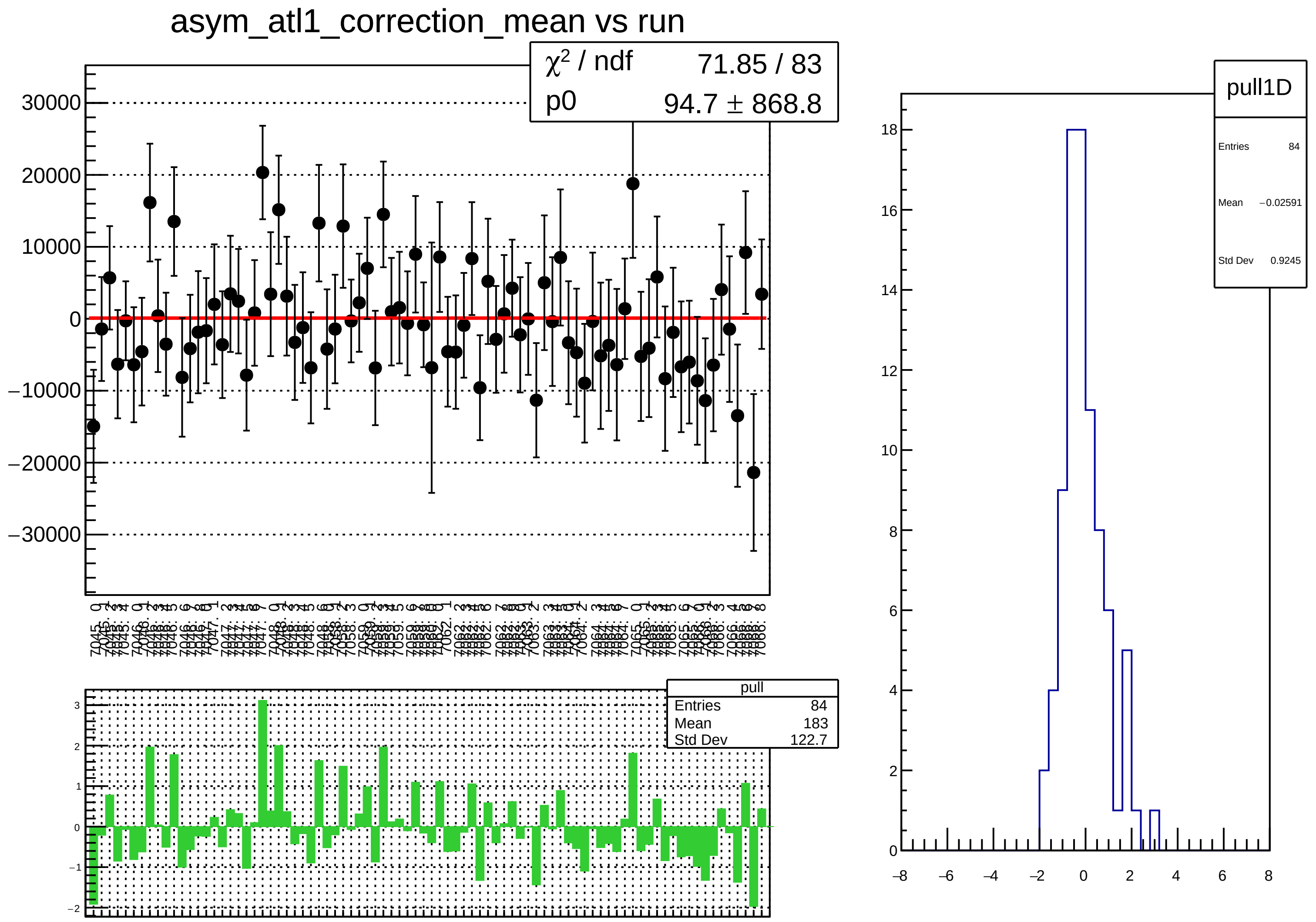
asym_us_agg_dd_mean vs run
$\chi^2$ / ndf 84.15 / 83
p0 2772 ± 1031
pull
Entries 84
Mean −97.36
Std Dev 147.1
pull1D
Entries 84
Mean −0.009743
Std Dev 1.001

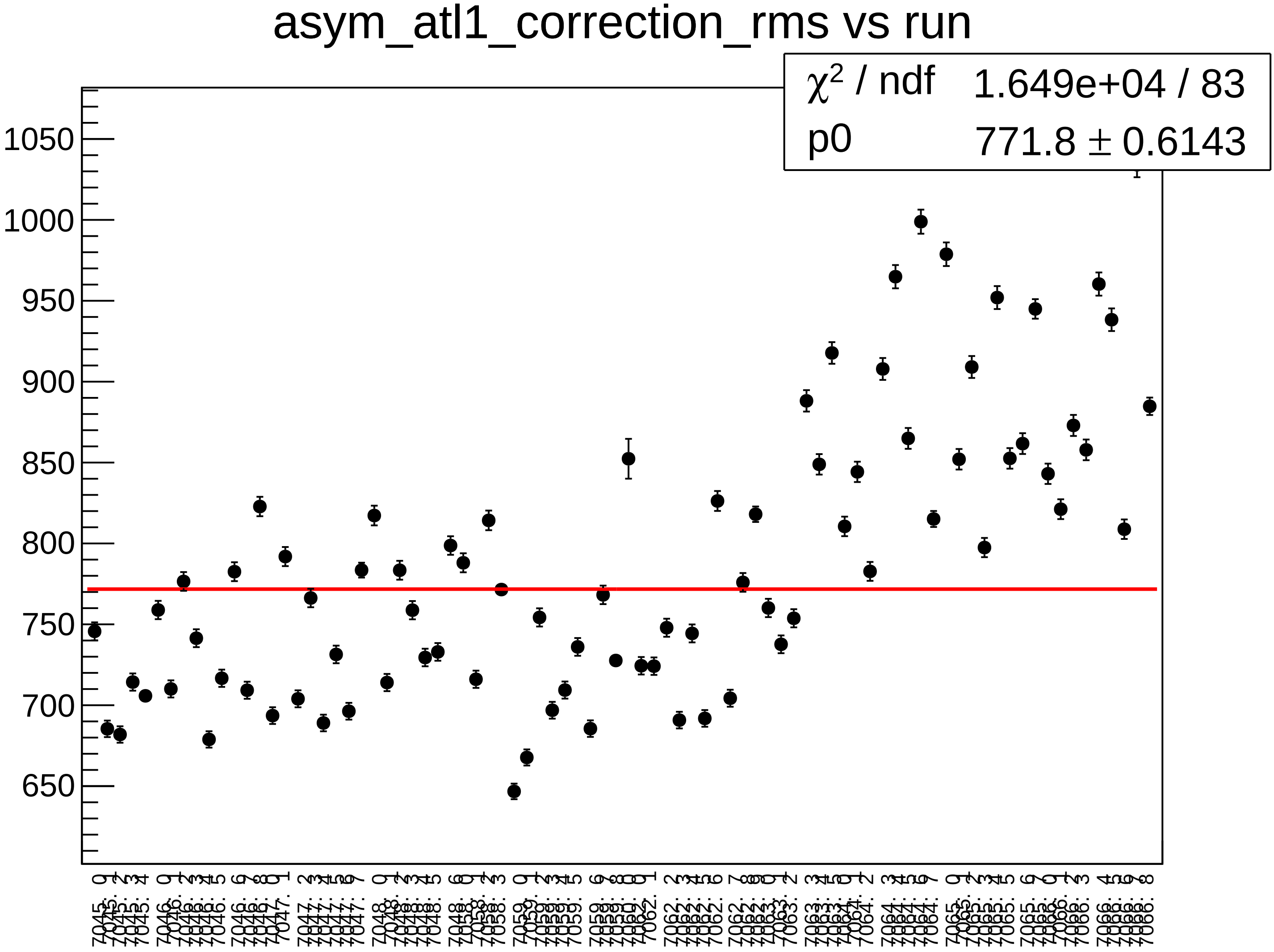
## asym_us_agg_dd_rms vs run



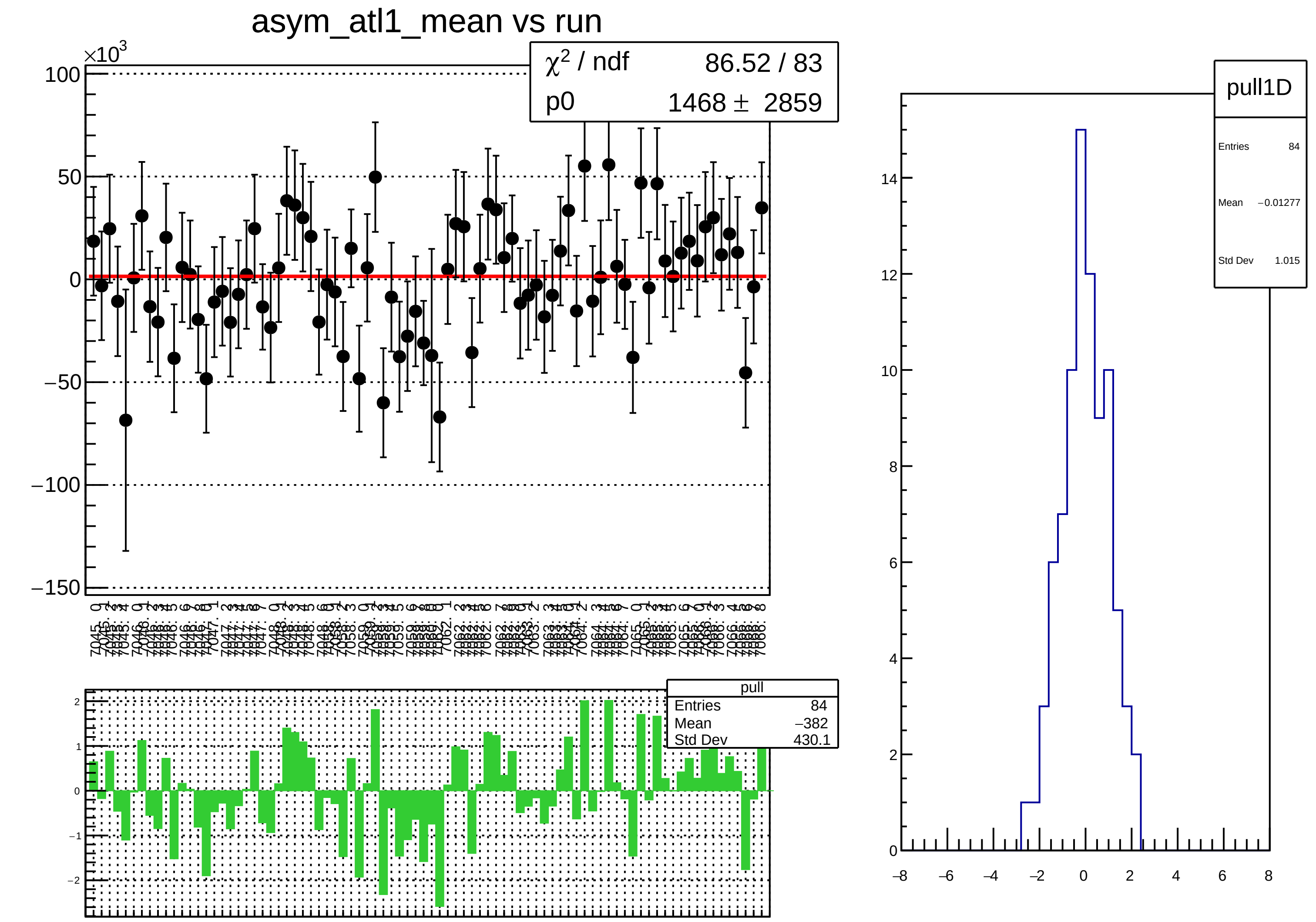

reg_asym_atl1_mean vs run
$\times10^3$
$\chi^2$ / ndf 80.89 / 83
p0 1476 ± 2715
pull
Entries 84
Mean −168.5
Std Dev 213.5
pull1D
Entries 84
Mean −0.02049
Std Dev 0.9811


reg_asym_atl1_rms vs run
$\chi^2$ / ndf 1.649e+04 / 83
p0 2412 ± 1.92
8000
7000
6000
5000
4000
3000
2000

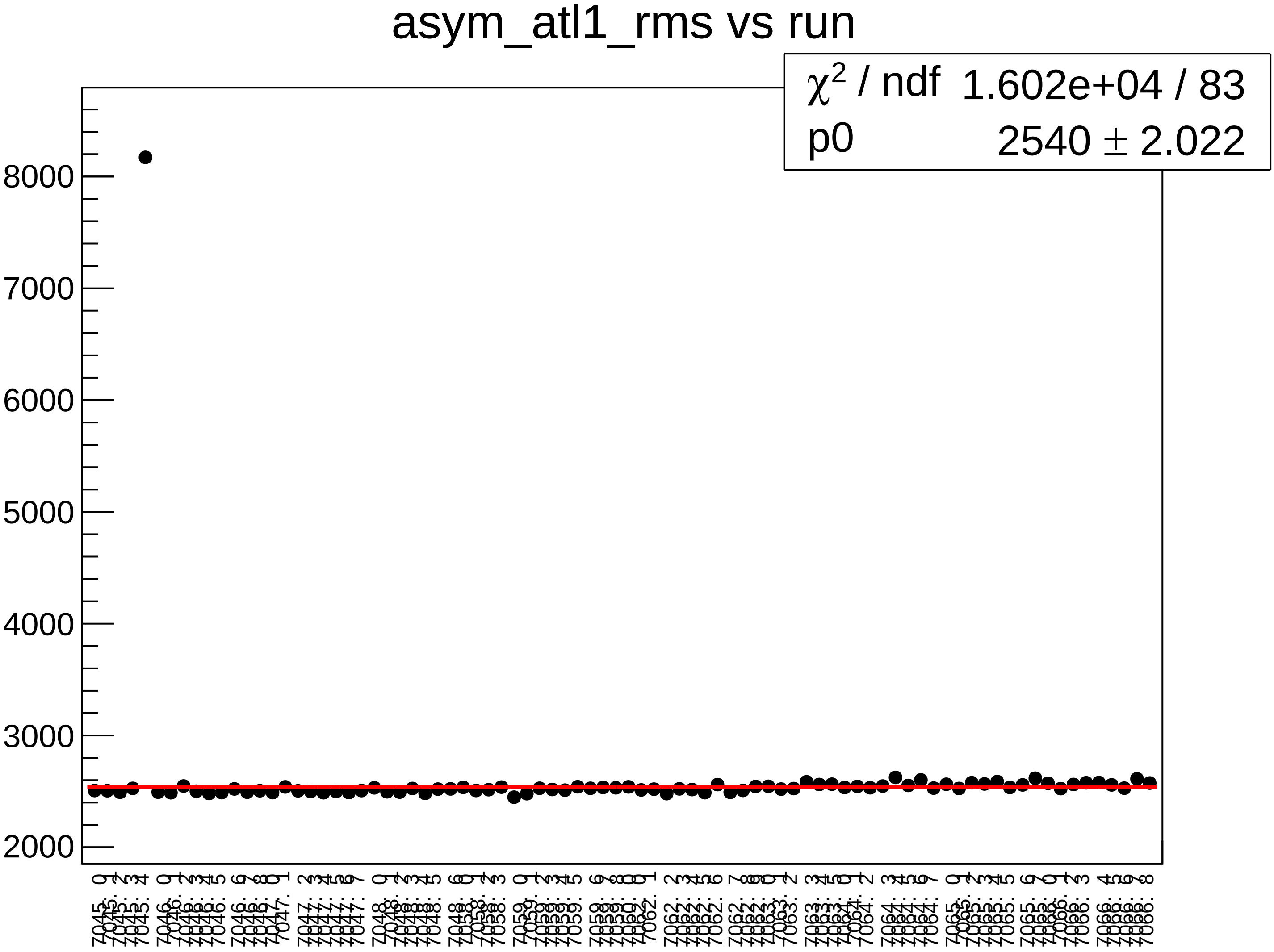

asym_atl1_correction_mean vs run
$\chi^2$ / ndf 71.85 / 83
p0 94.7 ± 868.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 183
Std Dev 122.7
pull1D
Entries 84
Mean −0.02591
Std Dev 0.9245



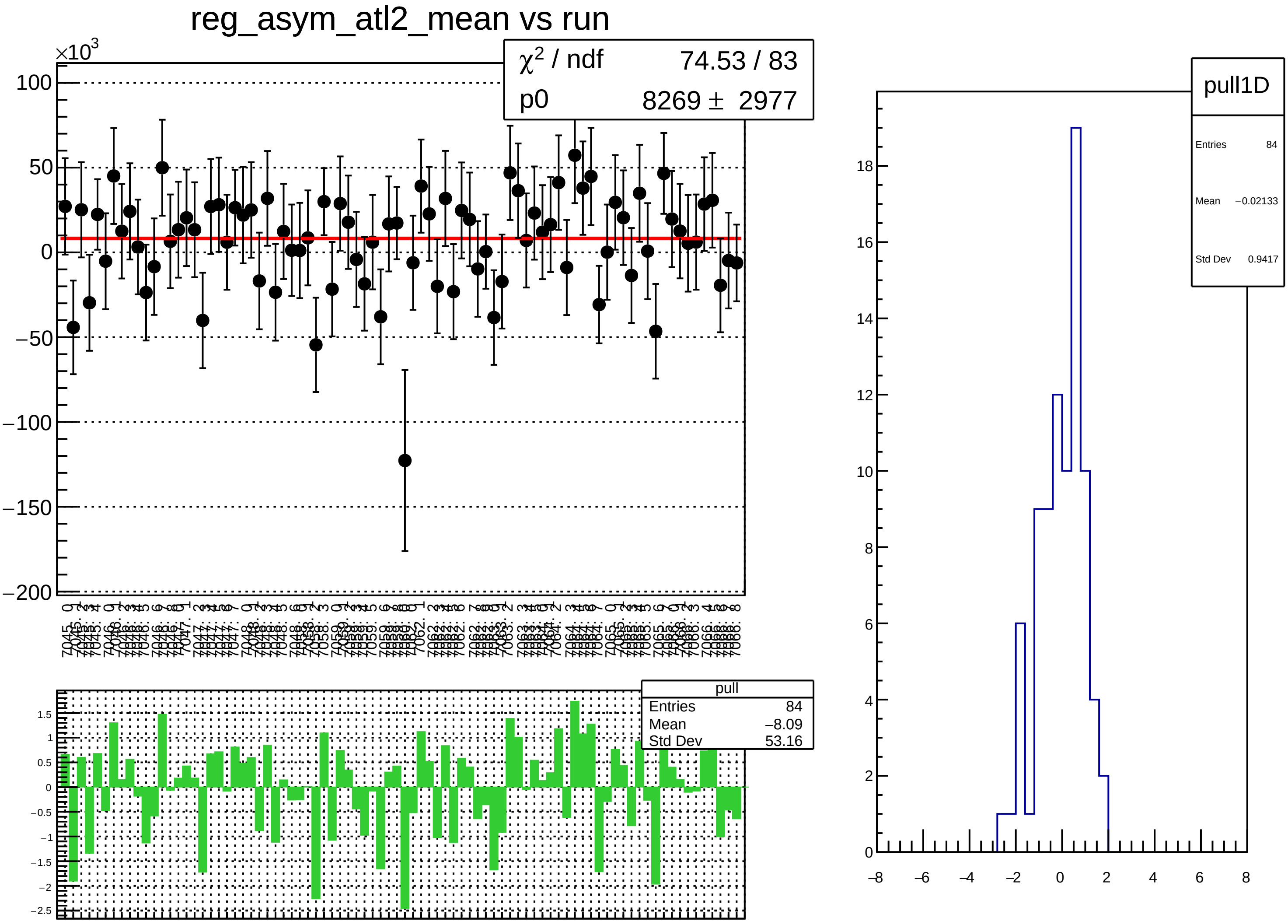
asym_atl1_correction_rms vs run
$\chi^2$ / ndf 1.649e+04 / 83
p0 771.8 ± 0.6143
1050
1000
950
900
850
800
750
700
650



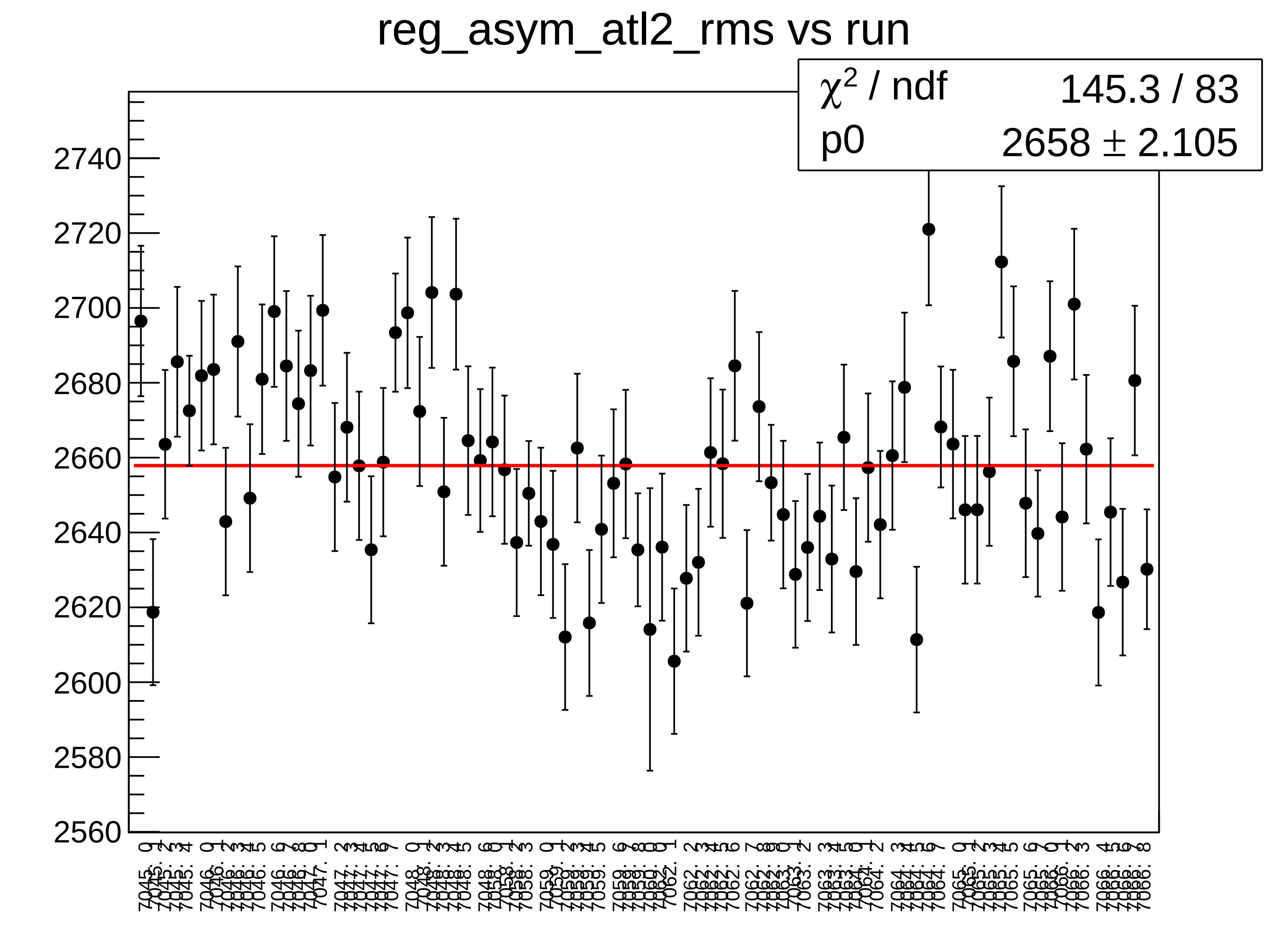
asym_atl1_mean vs run
$\times10^3$
$\chi^2$ / ndf 86.52 / 83
p0 1468 ± 2859
pull
Entries 84
Mean −382
Std Dev 430.1
pull1D
Entries 84
Mean −0.01277
Std Dev 1.015

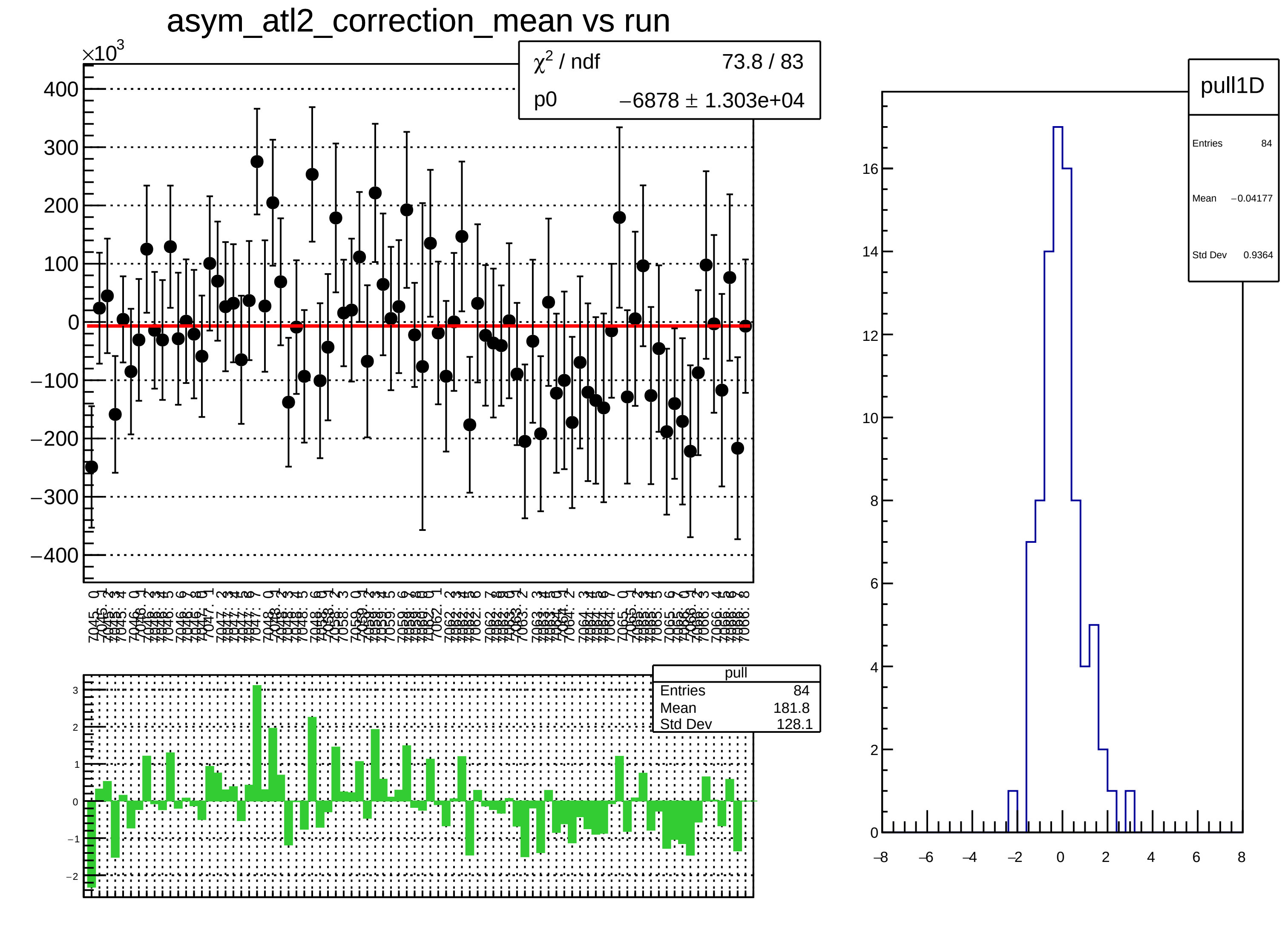


asym_atl1_rms vs run
$\chi^2$ / ndf 1.602e+04 / 83
p0 2540 ± 2.022
8000
7000
6000
5000
4000
3000
2000

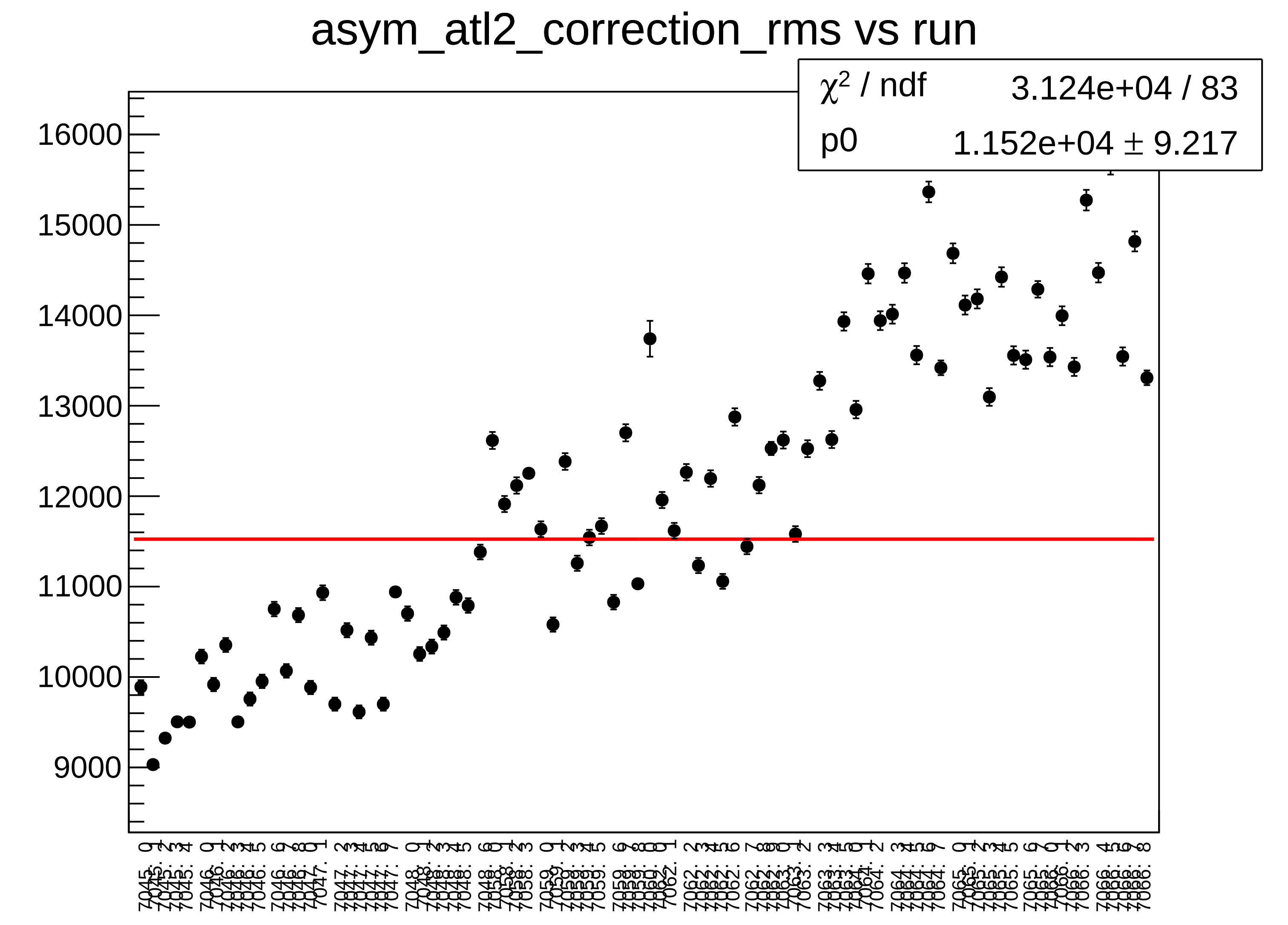


reg_asym_atl2_mean vs run
×10^3
χ2 / ndf 74.53 / 83
p0 8269 ± 2977
pull
Entries 84
Mean −8.09
Std Dev 53.16
pull1D
Entries 84
Mean −0.02133
Std Dev 0.9417

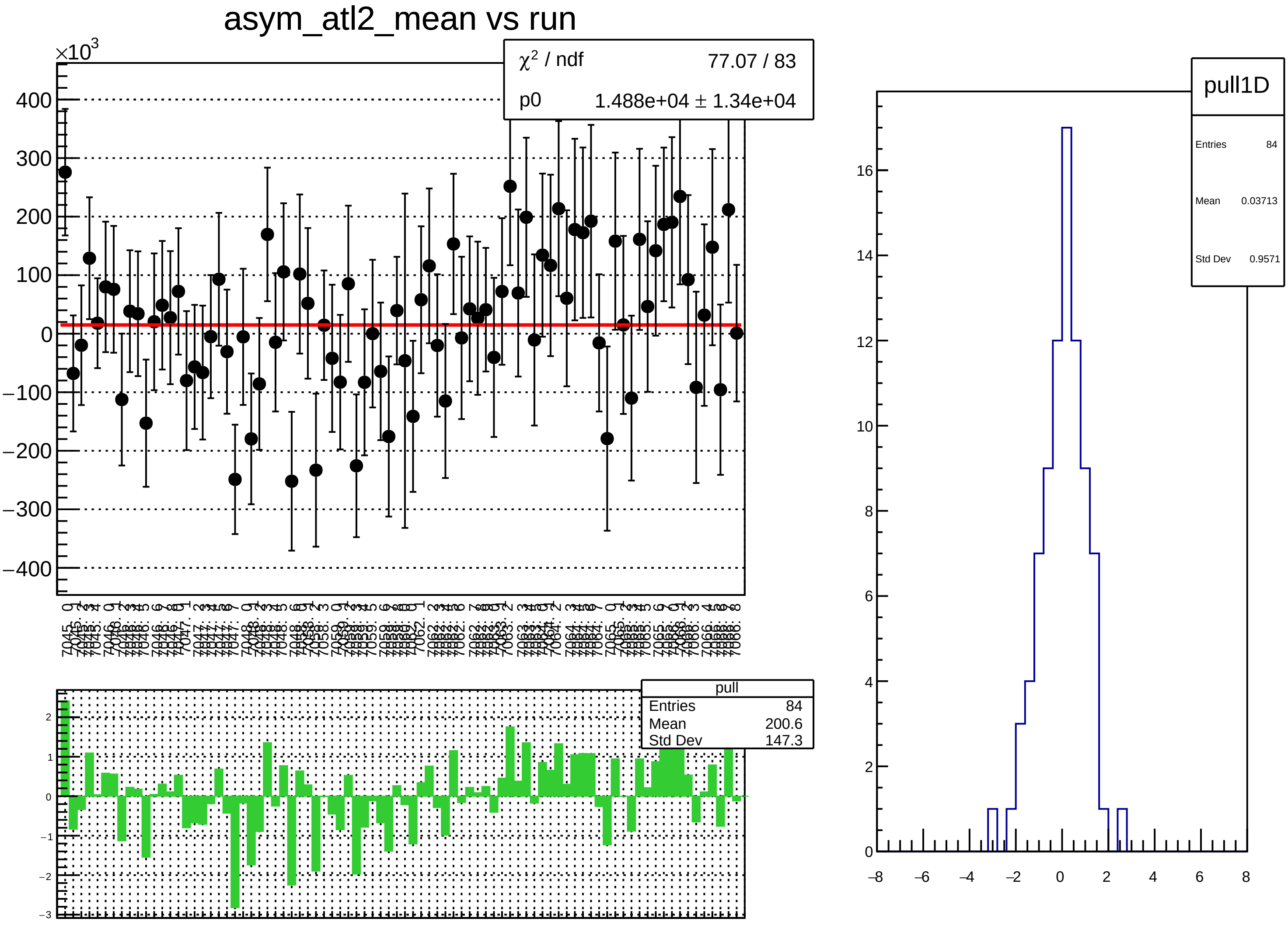

reg_asym_atl2_rms vs run
χ2 / ndf 145.3 / 83
p0 2658 ± 2.105
2740
2720
2700
2680
2660
2640
2620
2600
2580
2560

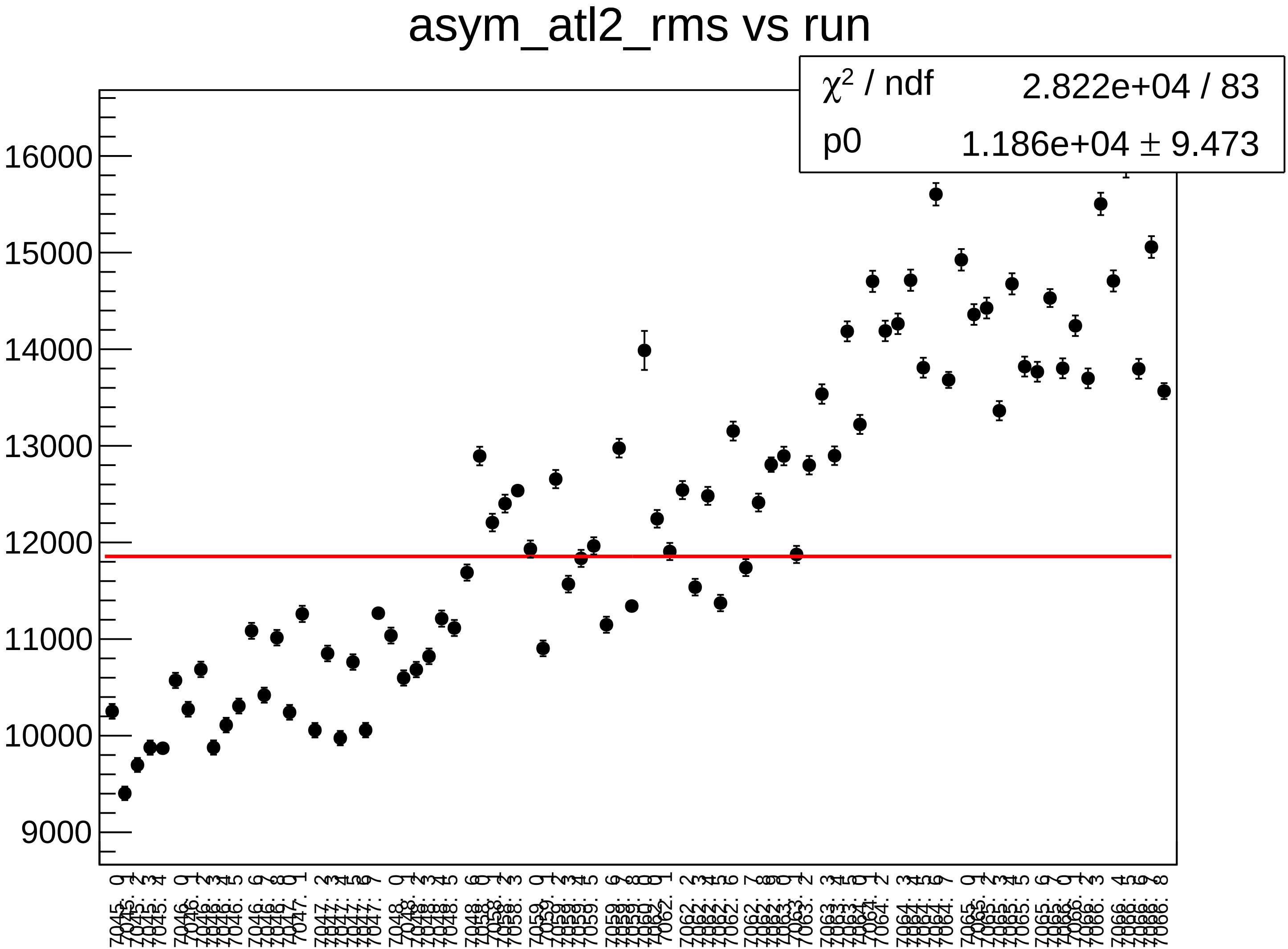


asym_atl2_correction_mean vs run
×10^3
χ2 / ndf 73.8 / 83
p0 −6878 ± 1.303e+04
400
300
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean 181.8
Std Dev 128.1
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.04177
Std Dev 0.9364
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



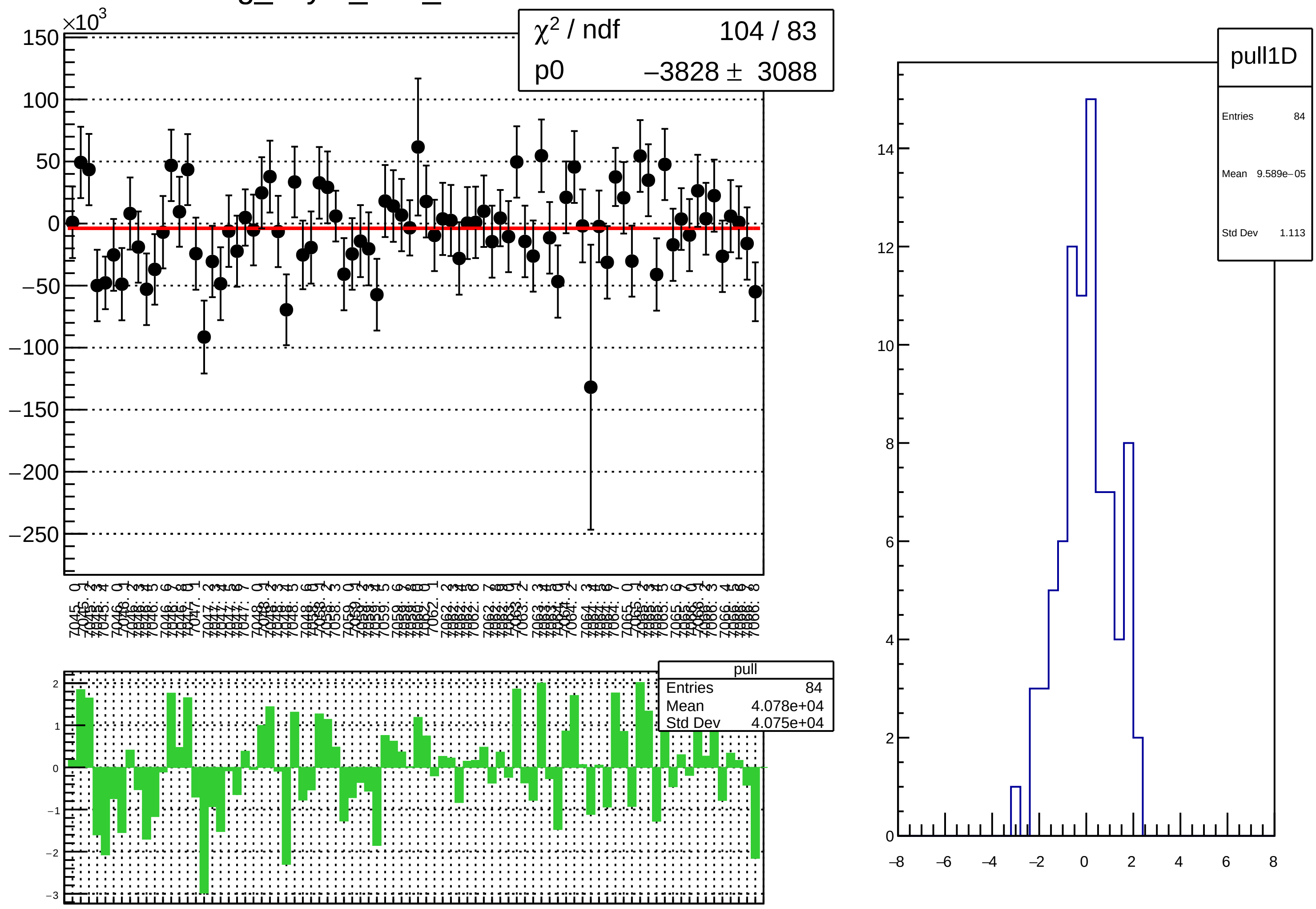
asym_atl2_correction_rms vs run
$\chi^2$ / ndf 3.124e+04 / 83
p0 1.152e+04 ± 9.217
16000
15000
14000
13000
12000
11000
10000
9000

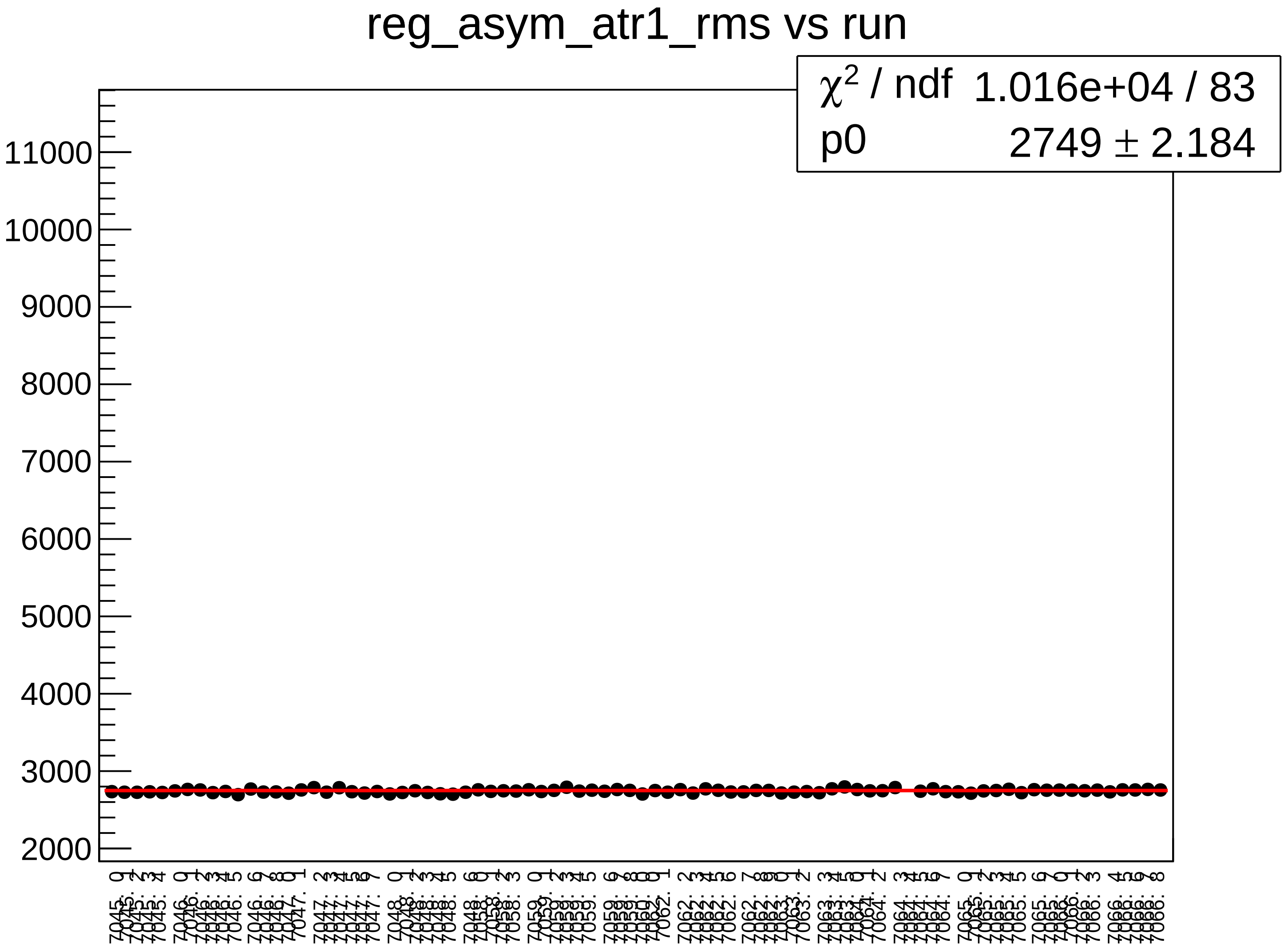

asym_atl2_mean vs run
×10^3
χ^2 / ndf 77.07 / 83
p0 1.488e+04 ± 1.34e+04
400
300
200
100
0
−100
−200
−300
−400
pull
Entries 84
Mean 200.6
Std Dev 147.3
pull1D
Entries 84
Mean 0.03713
Std Dev 0.9571

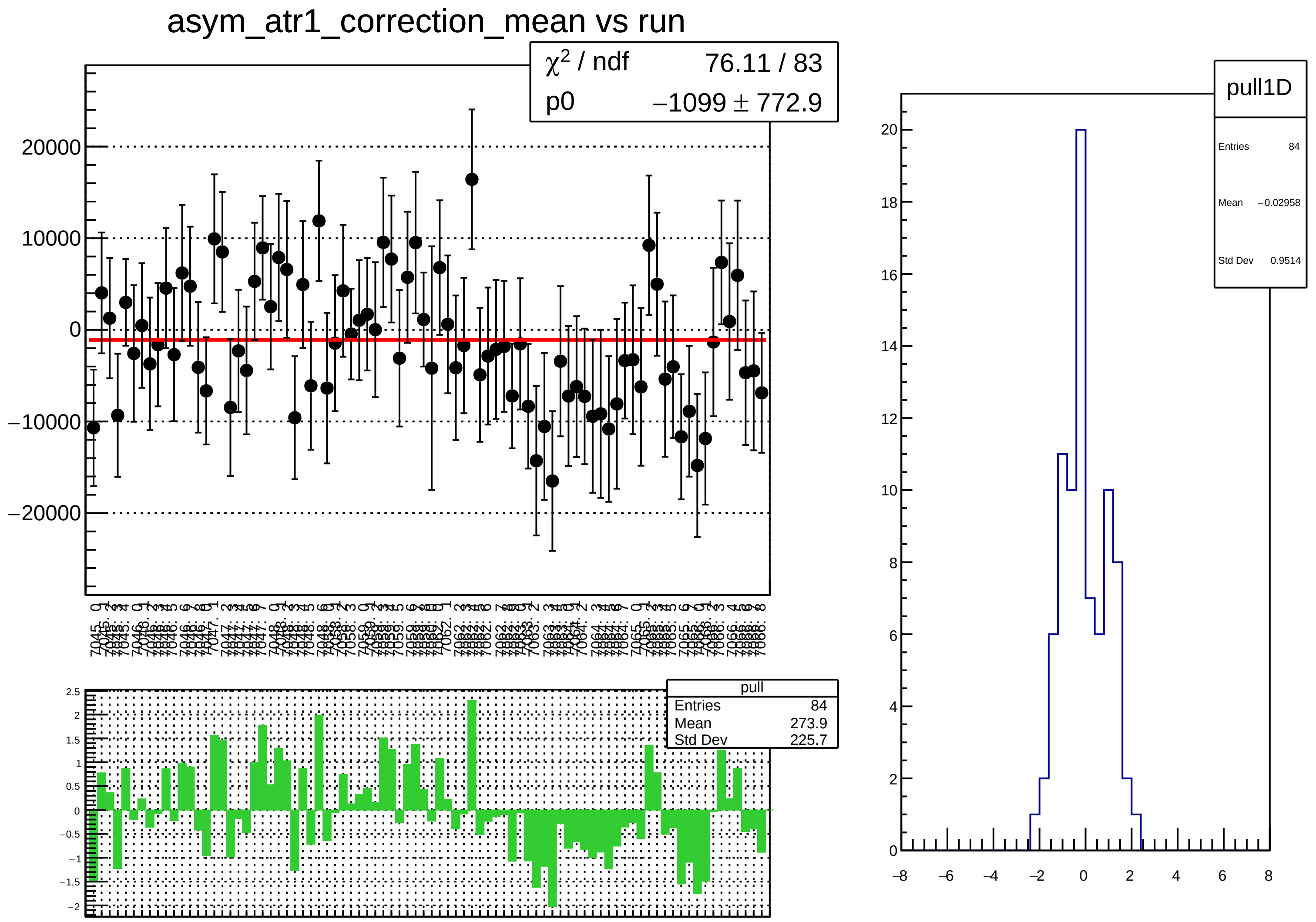


asym_atl2_rms vs run
χ2 / ndf 2.822e+04 / 83
p0 1.186e+04 ± 9.473
16000
15000
14000
13000
12000
11000
10000
9000

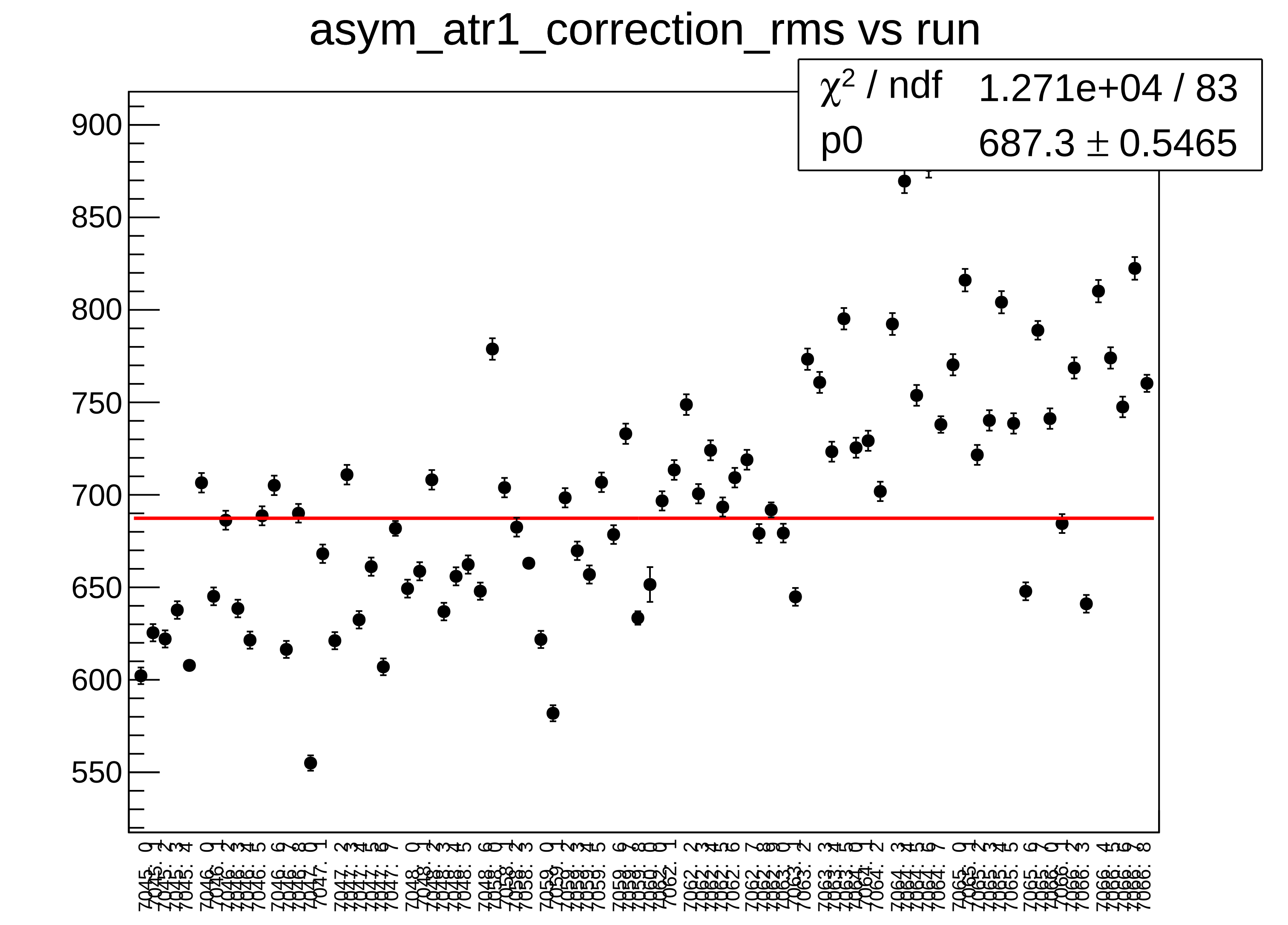
reg_asym_atr1_mean vs run



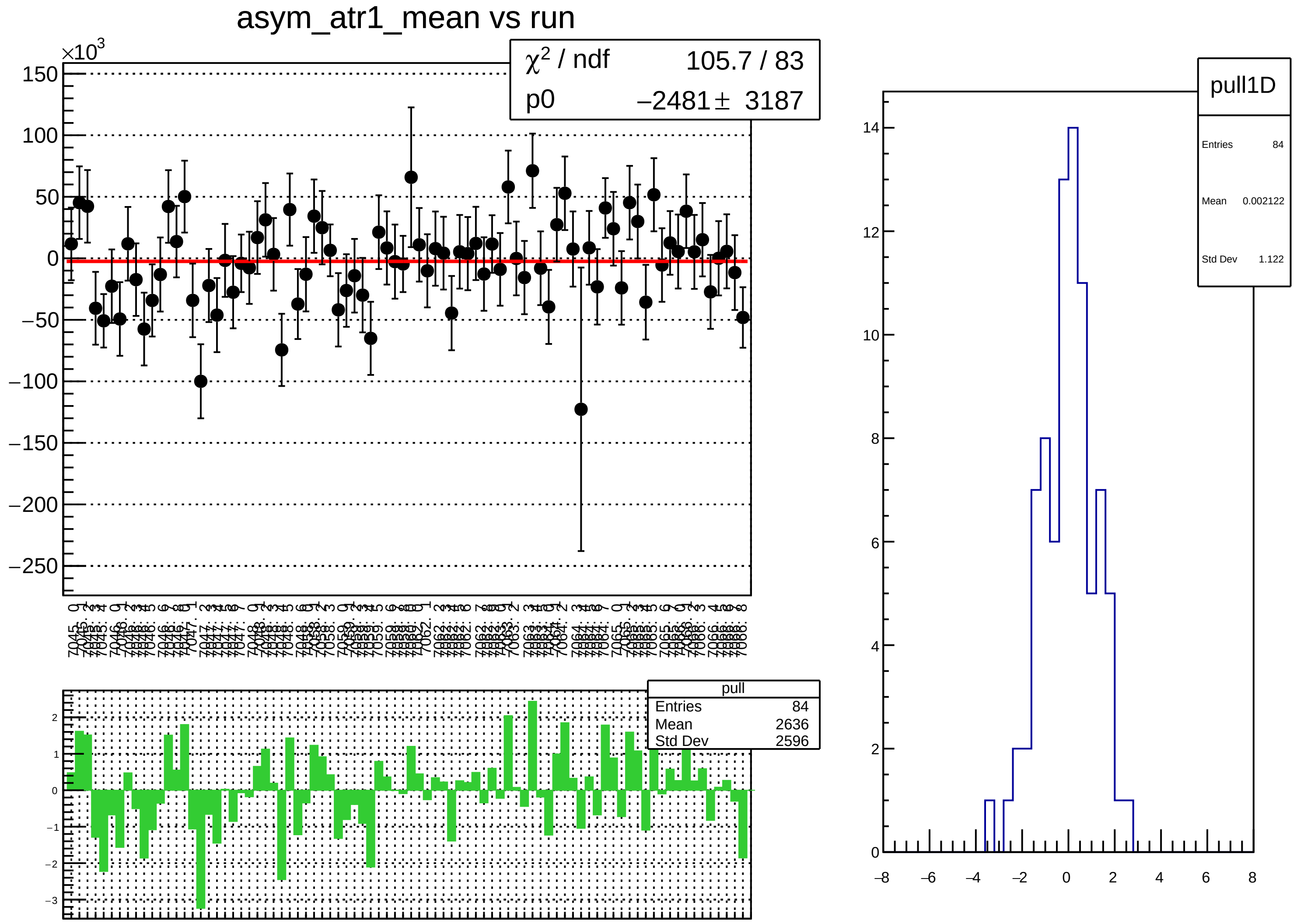

reg_asym_atr1_rms vs run
χ2 / ndf 1.016e+04 / 83
p0 2749 ± 2.184
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

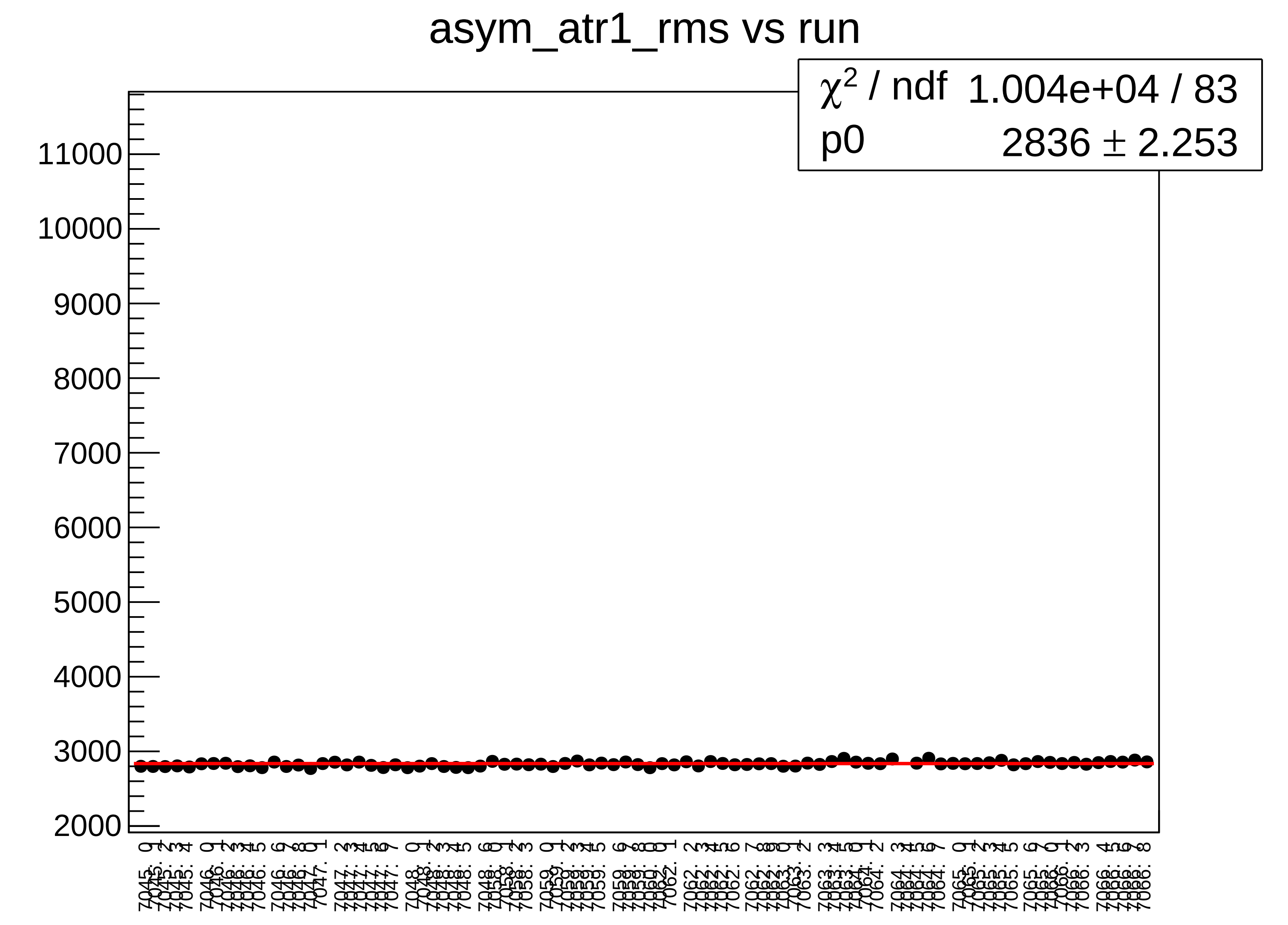


asym_atr1_correction_mean vs run
$\chi^2$ / ndf 76.11 / 83
p0 −1099 ± 772.9
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 273.9
Std Dev 225.7
pull1D
Entries 84
Mean −0.02958
Std Dev 0.9514

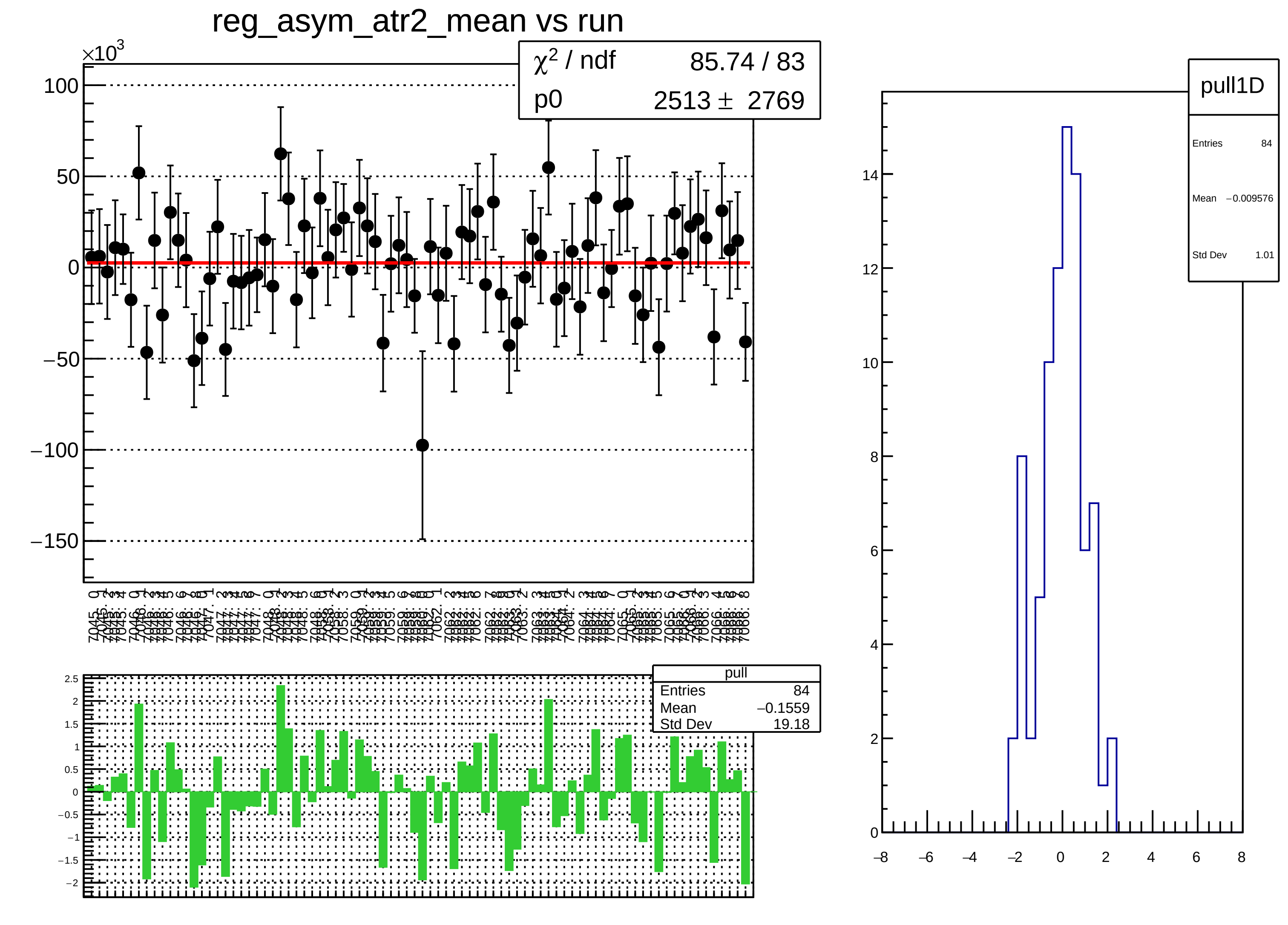


asym_atr1_correction_rms vs run
$\chi^2$ / ndf 1.271e+04 / 83
p0 687.3 ± 0.5465

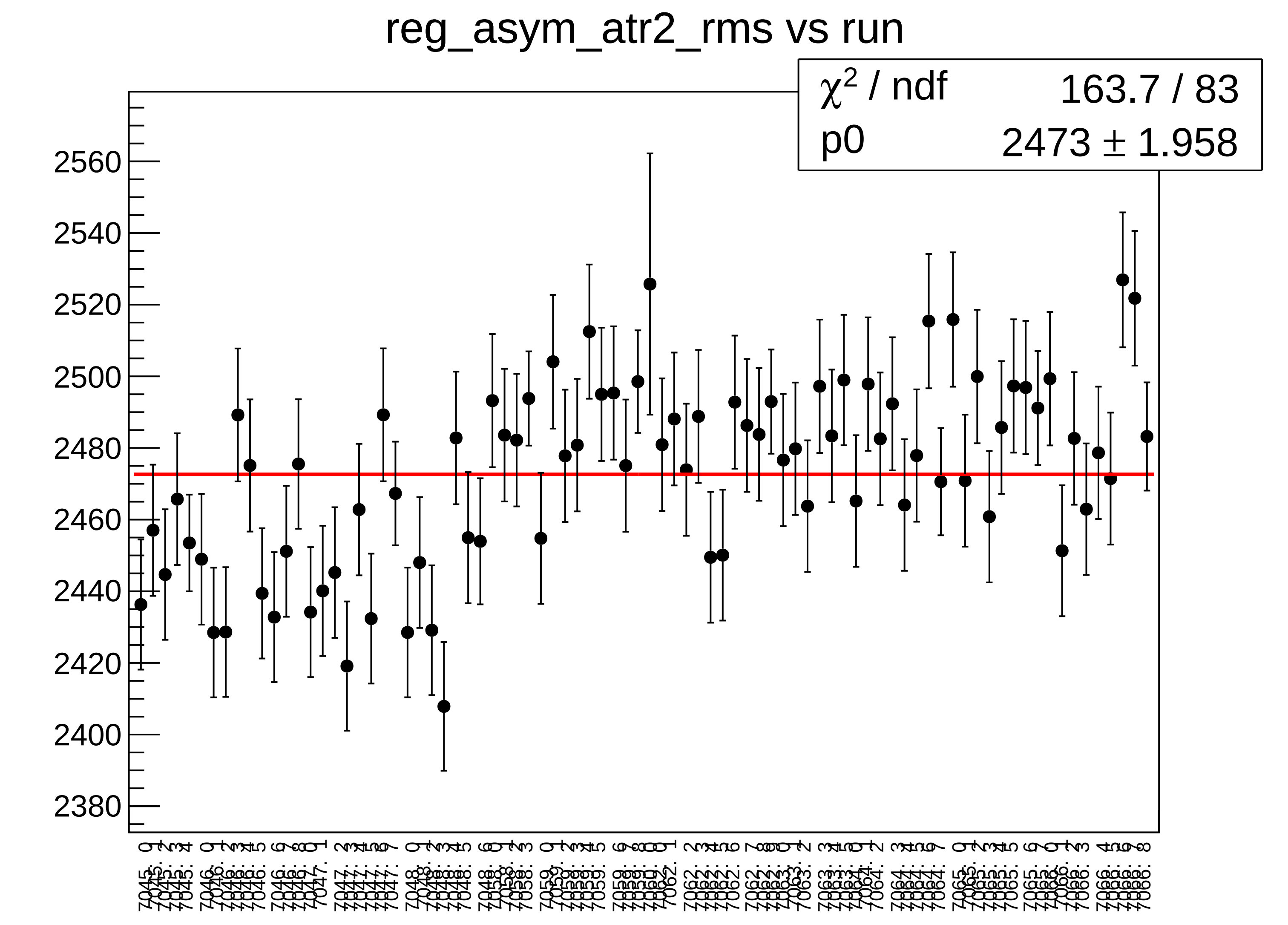

asym_atr1_mean vs run
χ2 / ndf 105.7 / 83
p0 −2481 ± 3187
pull
Entries 84
Mean 2636
Std Dev 2596
pull1D
Entries 84
Mean 0.002122
Std Dev 1.122

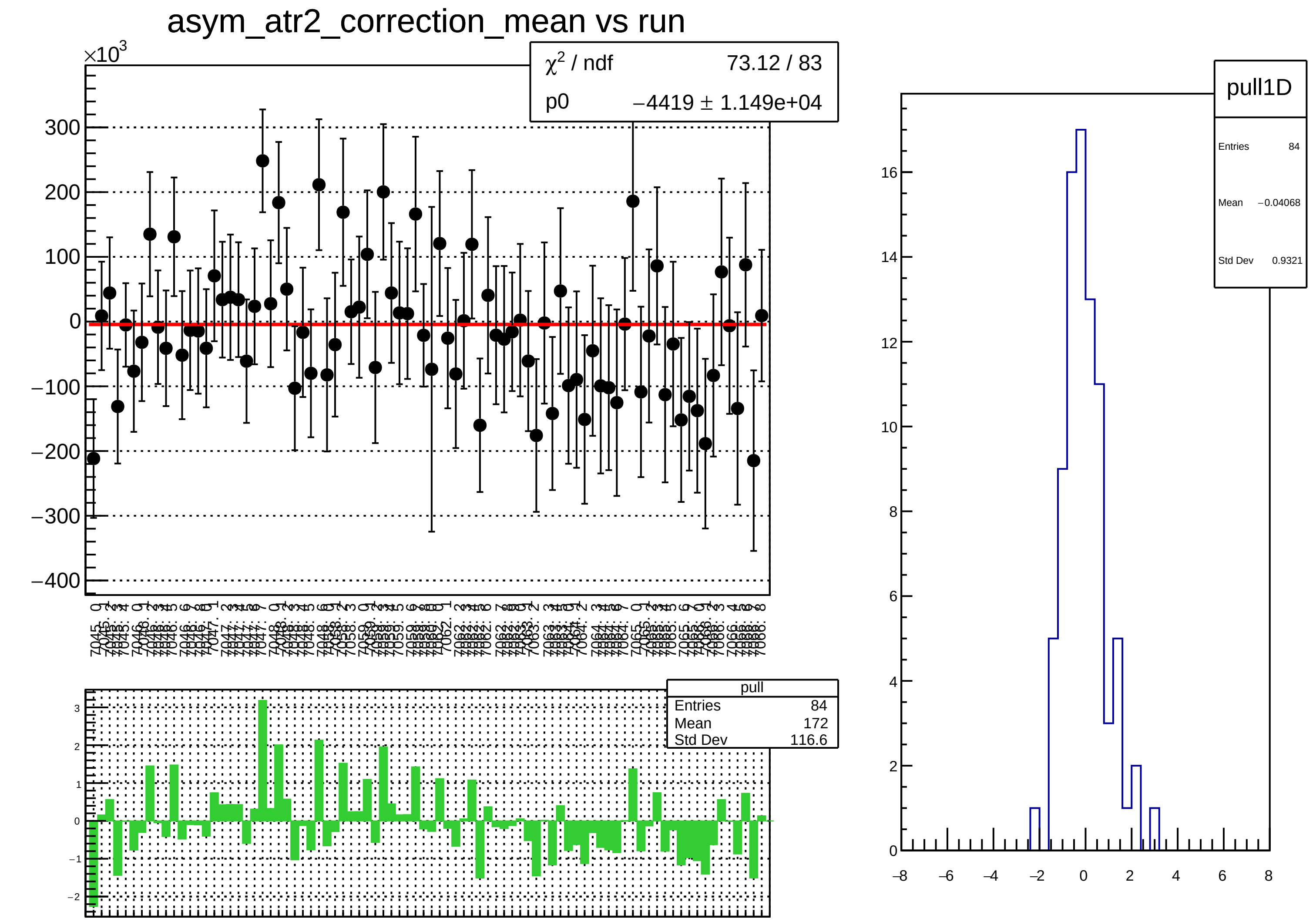


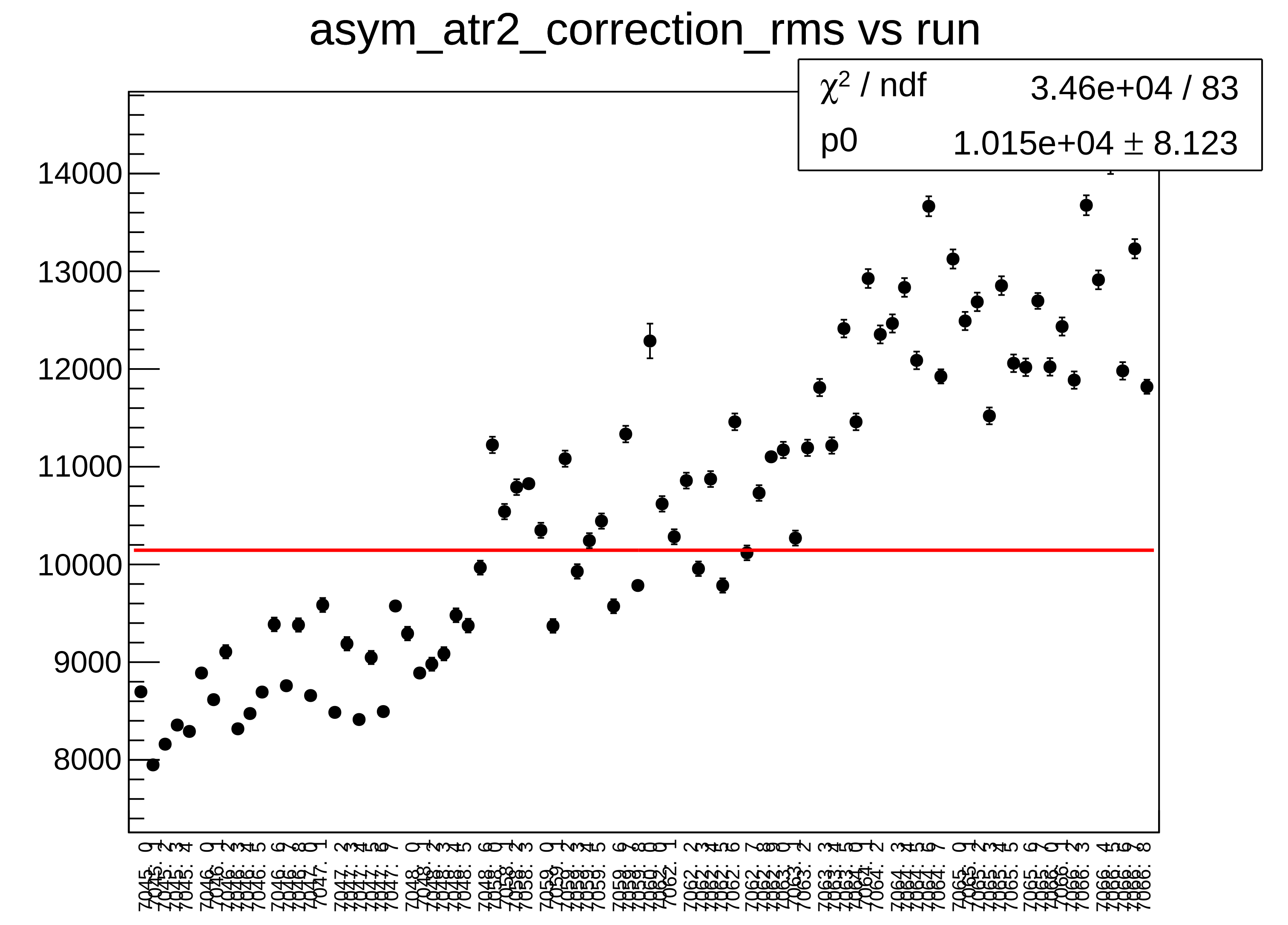
asym_atr1_rms vs run
$\chi^2$ / ndf 1.004e+04 / 83
p0 2836 ± 2.253
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000



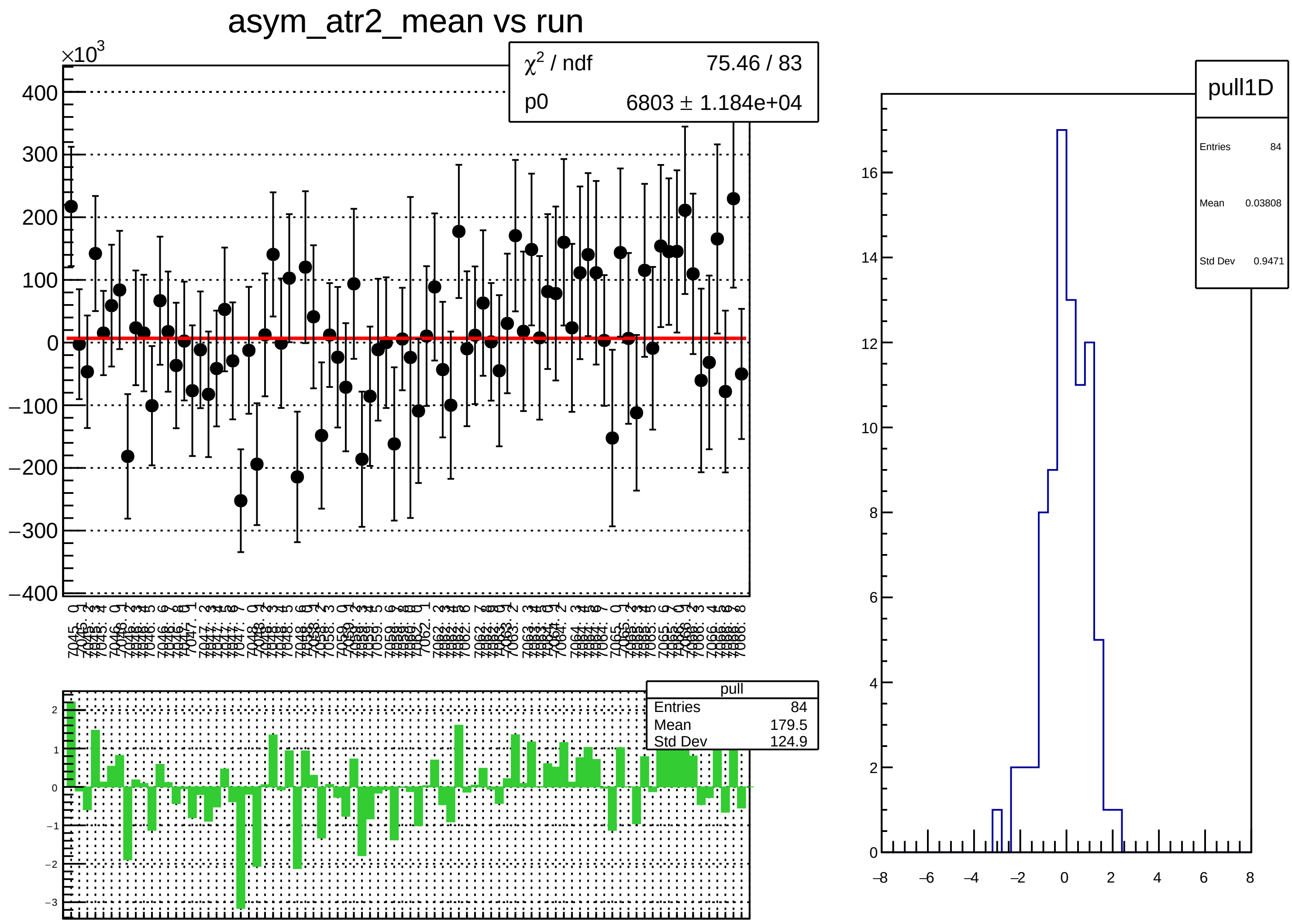
reg_asym_atr2_mean vs run
χ2 / ndf 85.74 / 83
p0 2513 ± 2769
pull
Entries 84
Mean −0.1559
Std Dev 19.18
pull1D
Entries 84
Mean −0.009576
Std Dev 1.01


reg_asym_atr2_rms vs run
χ2 / ndf 163.7 / 83
p0 2473 ± 1.958
2560
2540
2520
2500
2480
2460
2440
2420
2400
2380

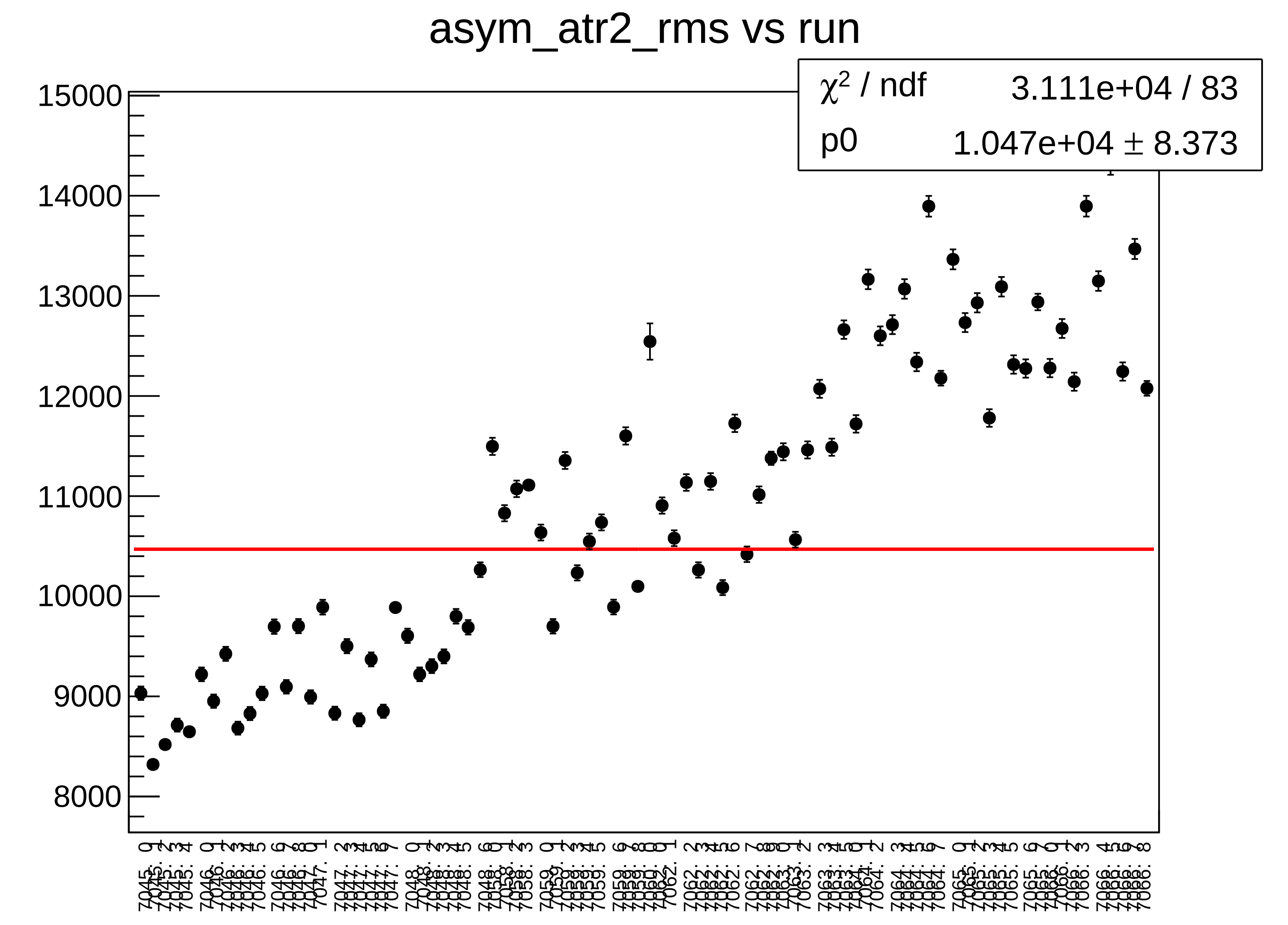

asym_atr2_correction_mean vs run
×10^3
χ^2 / ndf 73.12 / 83
p0 −4419 ± 1.149e+04
pull
Entries 84
Mean 172
Std Dev 116.6
pull1D
Entries 84
Mean −0.04068
Std Dev 0.9321

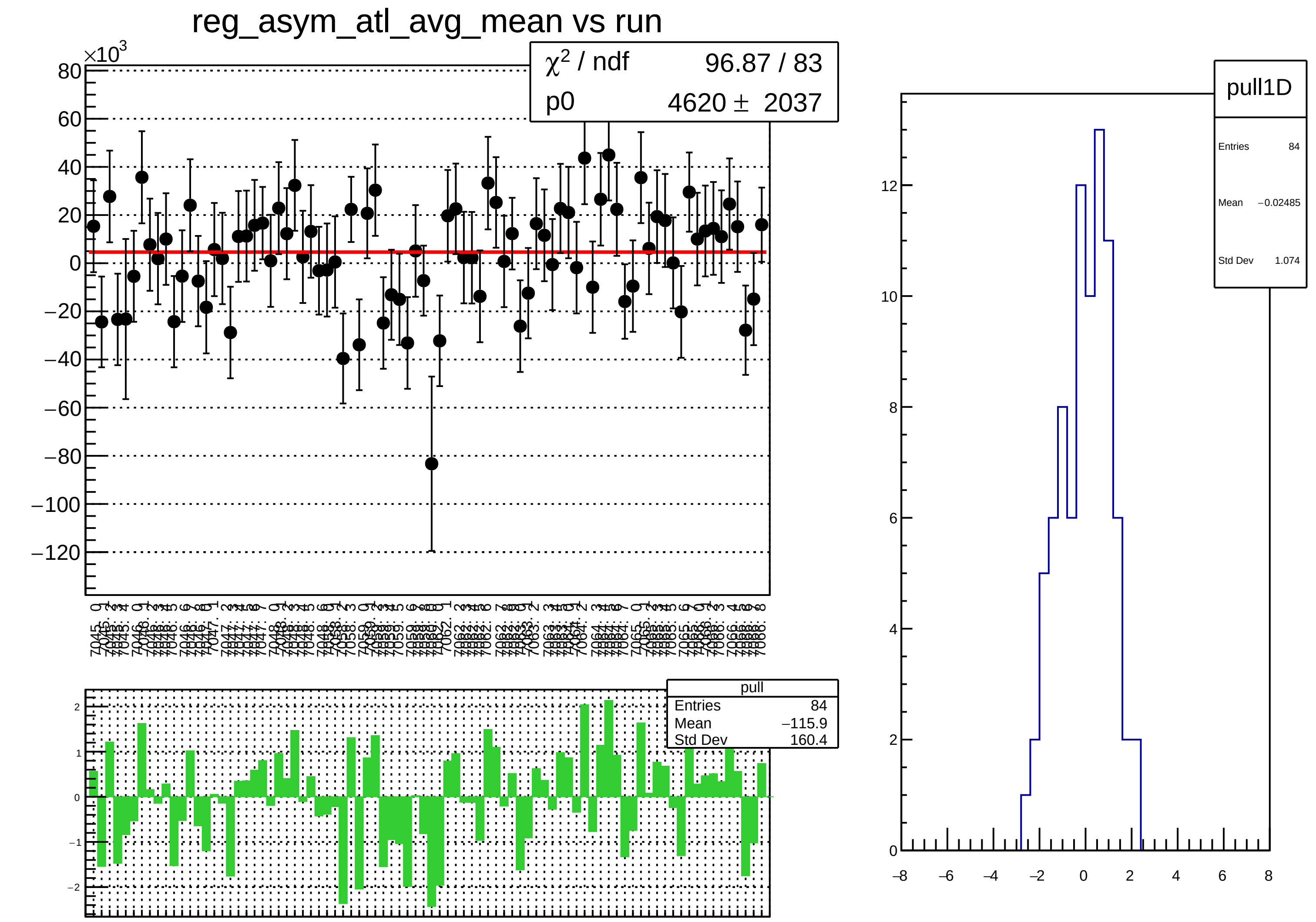


asym_atr2_correction_rms vs run
χ2 / ndf 3.46e+04 / 83
p0 1.015e+04 ± 8.123
14000
13000
12000
11000
10000
9000
8000

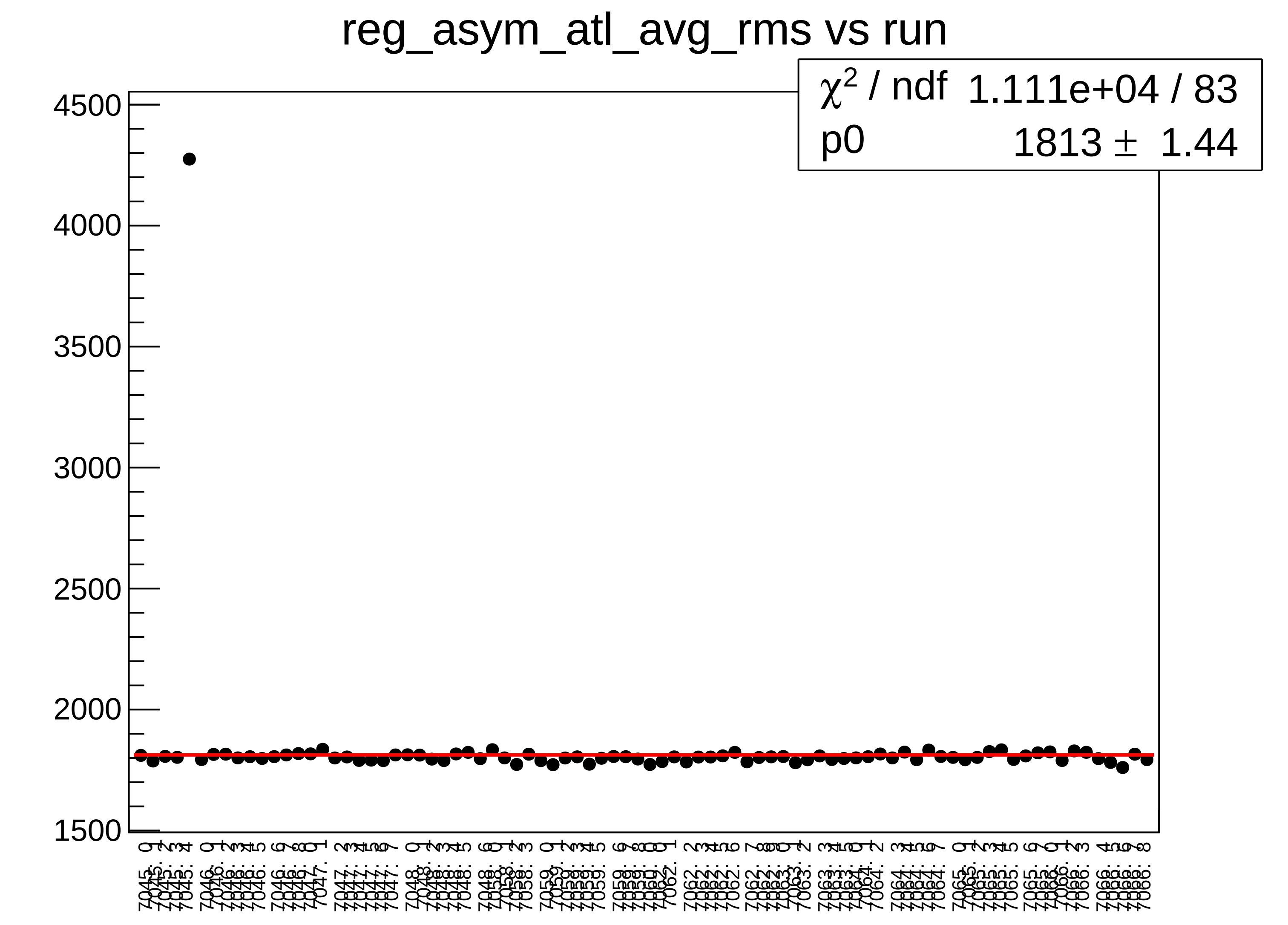


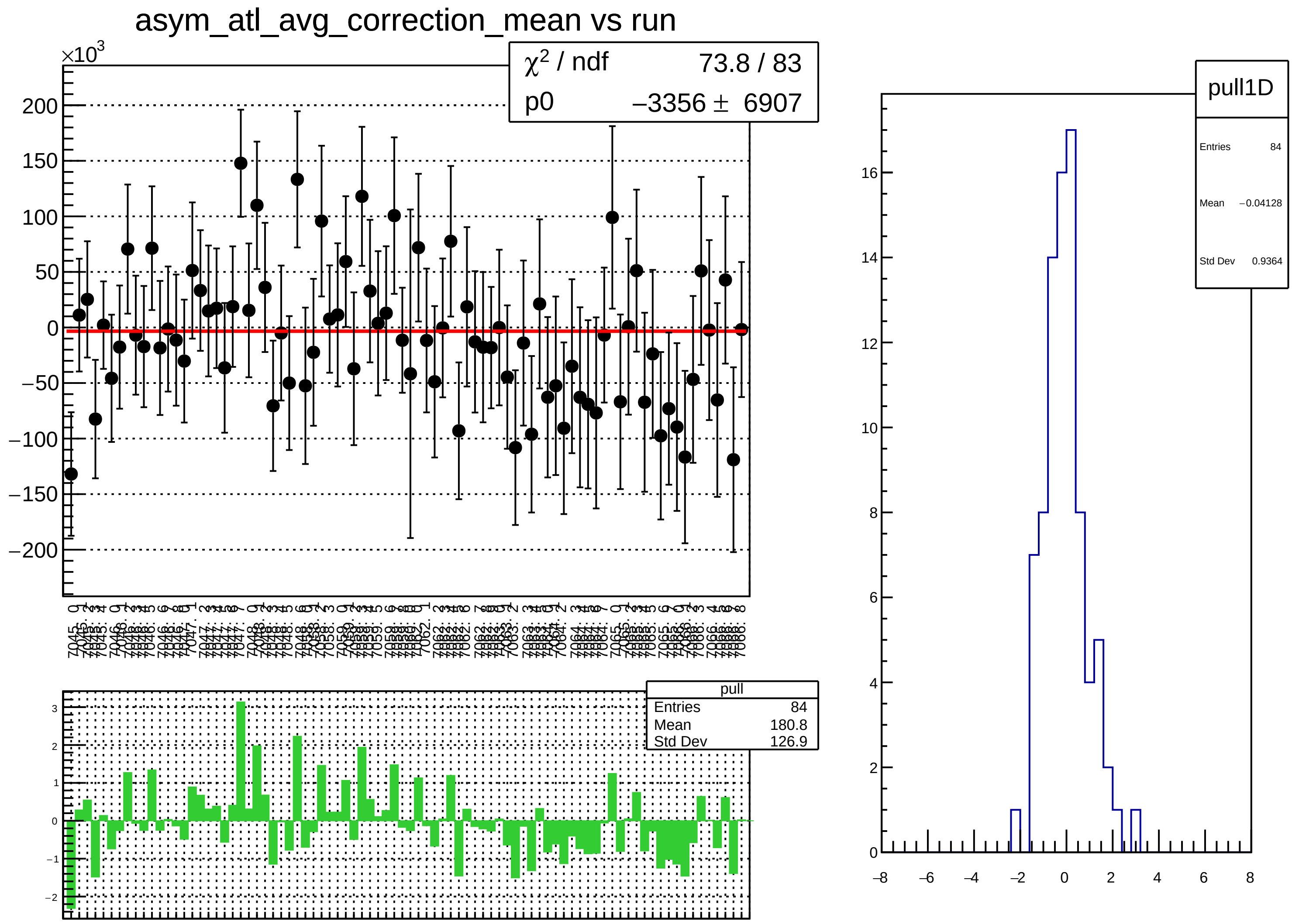
asym_atr2_mean vs run
×10^3
χ^2 / ndf 75.46 / 83
p0 6803 ± 1.184e+04
pull
Entries 84
Mean 179.5
Std Dev 124.9
pull1D
Entries 84
Mean 0.03808
Std Dev 0.9471


asym_atr2_rms vs run
$\chi^2$ / ndf 3.111e+04 / 83
p0 1.047e+04 ± 8.373
15000
14000
13000
12000
11000
10000
9000
8000

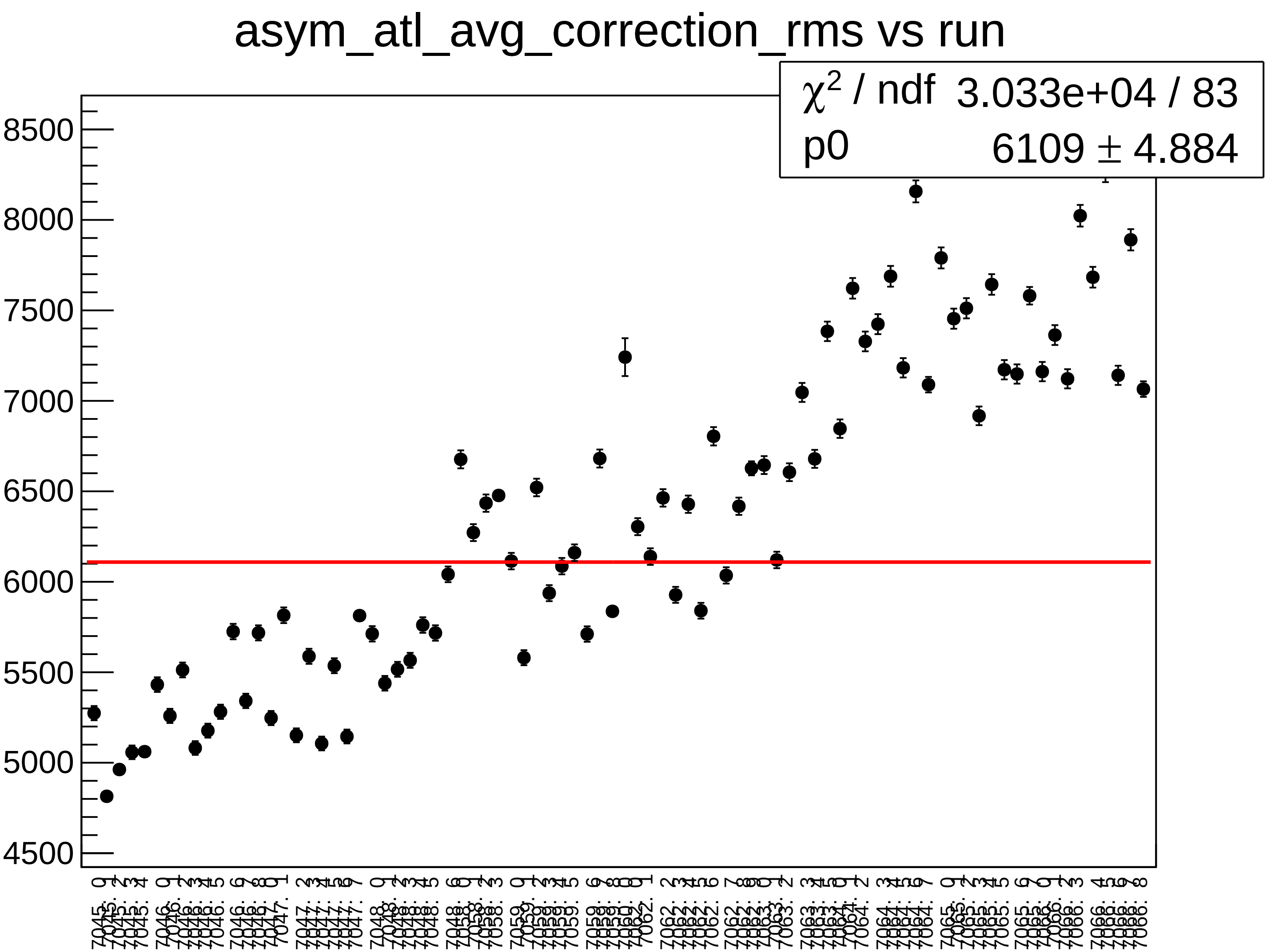


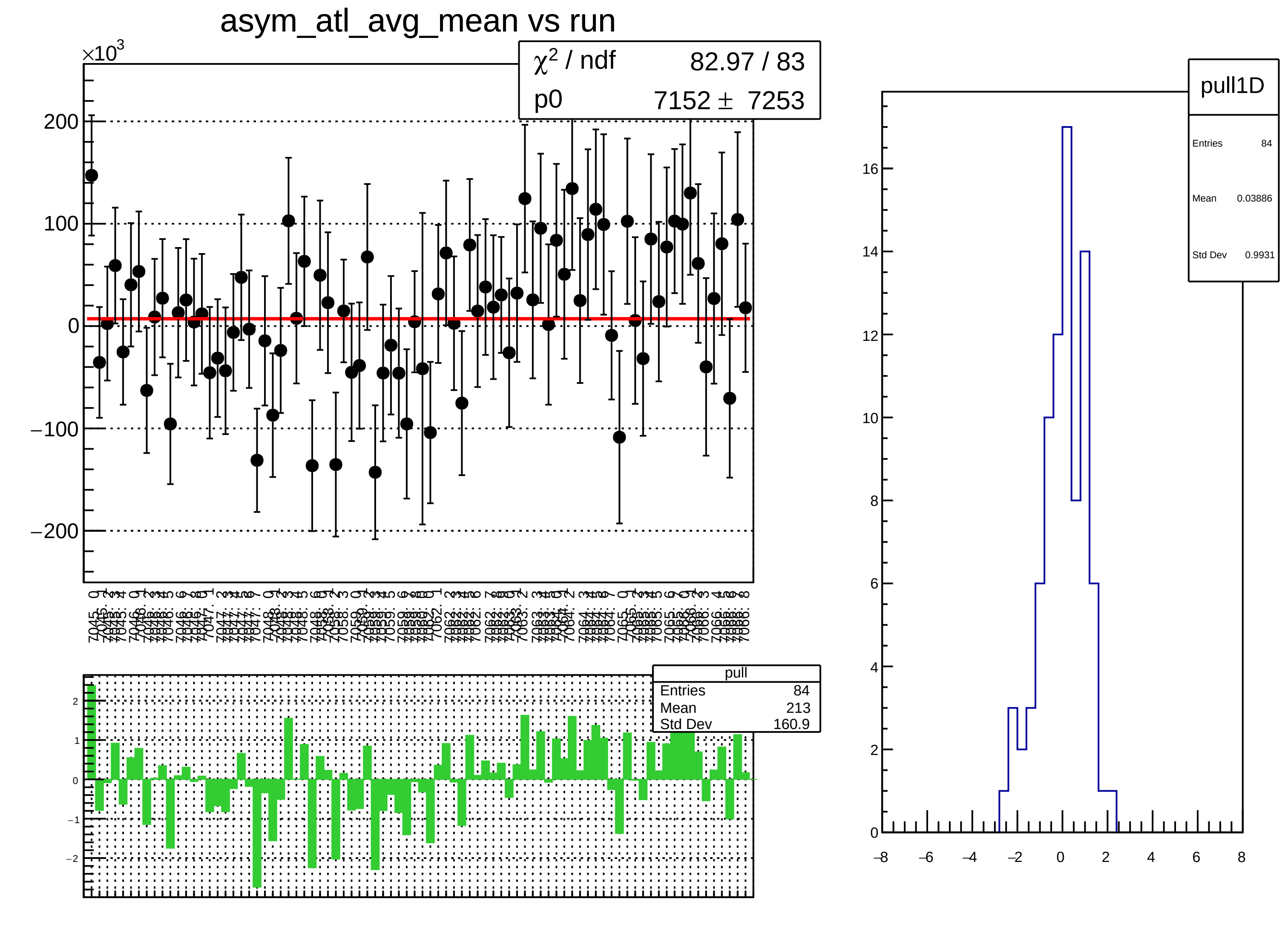
reg_asym_atl_avg_mean vs run
×10^3
χ2 / ndf 96.87 / 83
p0 4620 ± 2037
pull1D
Entries 84
Mean −0.02485
Std Dev 1.074
pull
Entries 84
Mean −115.9
Std Dev 160.4


reg_asym_atl_avg_rms vs run
$\chi^2$ / ndf 1.111e+04 / 83
p0 1813 ± 1.44

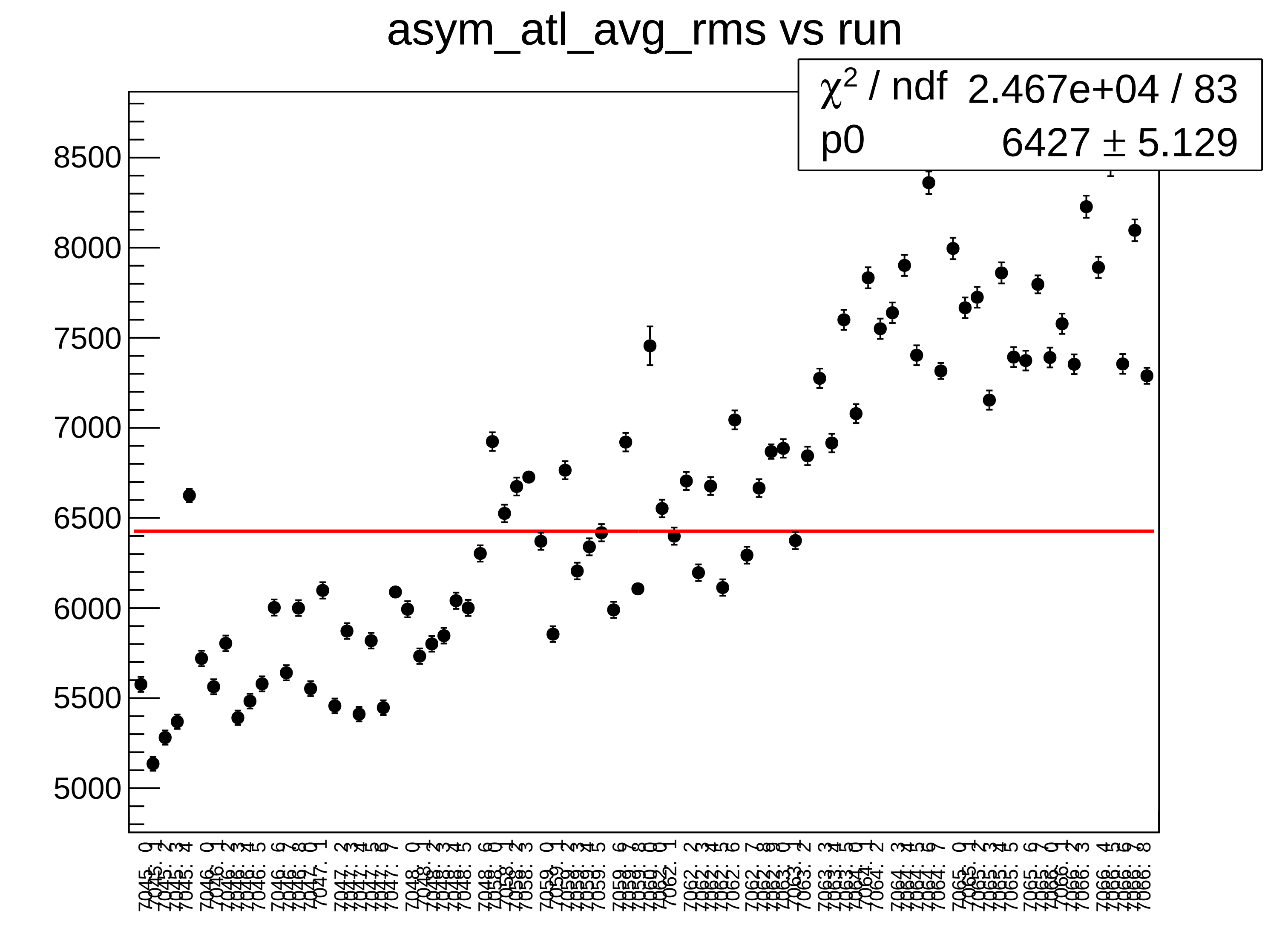


asym_atl_avg_correction_mean vs run
×10^3
χ2 / ndf 73.8 / 83
p0 −3356 ± 6907
pull
Entries 84
Mean 180.8
Std Dev 126.9
pull1D
Entries 84
Mean −0.04128
Std Dev 0.9364

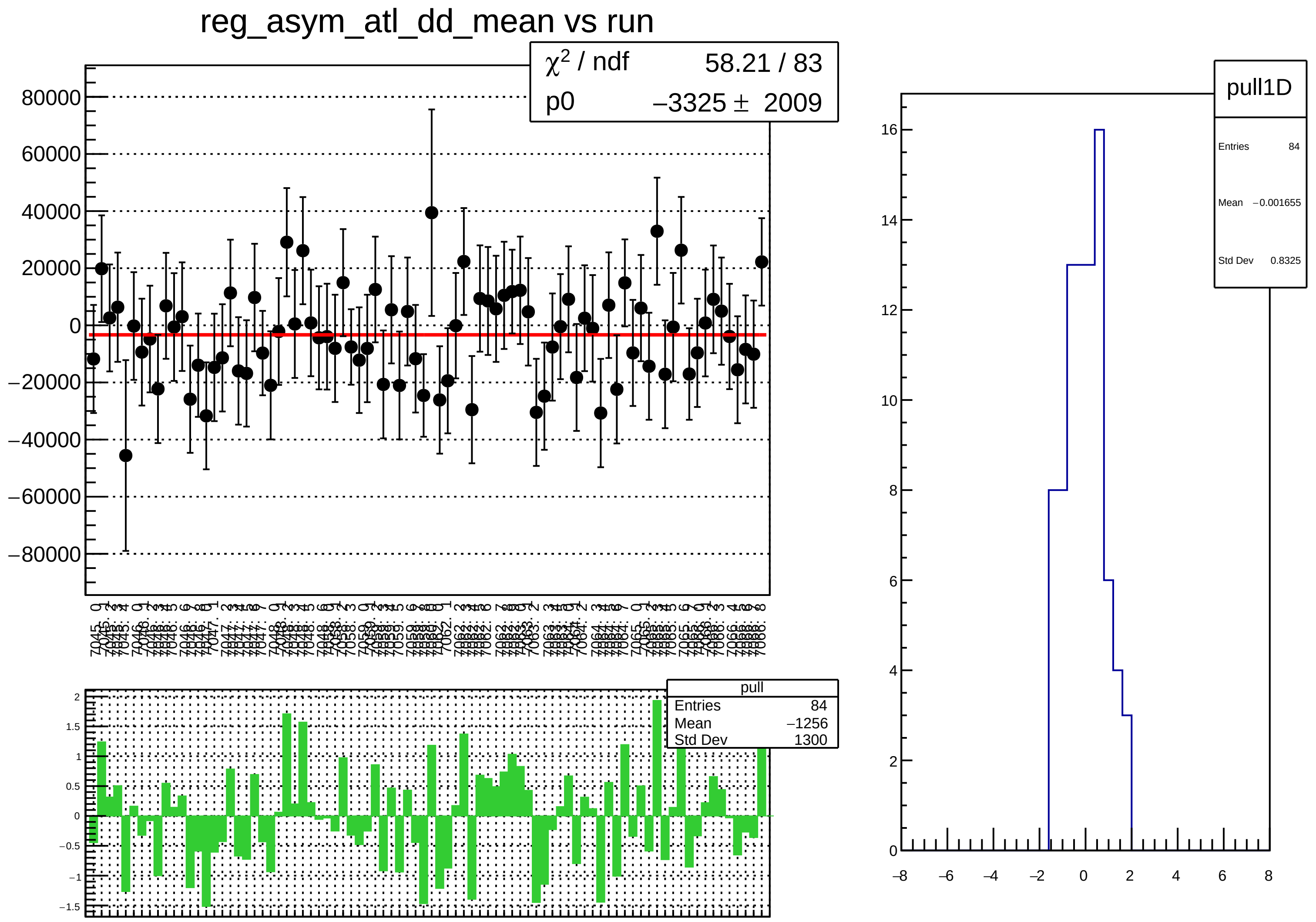

asym_atl_avg_correction_rms vs run
$\chi^2$ / ndf 3.033e+04 / 83
p0 6109 ± 4.884
8500
8000
7500
7000
6500
6000
5500
5000
4500

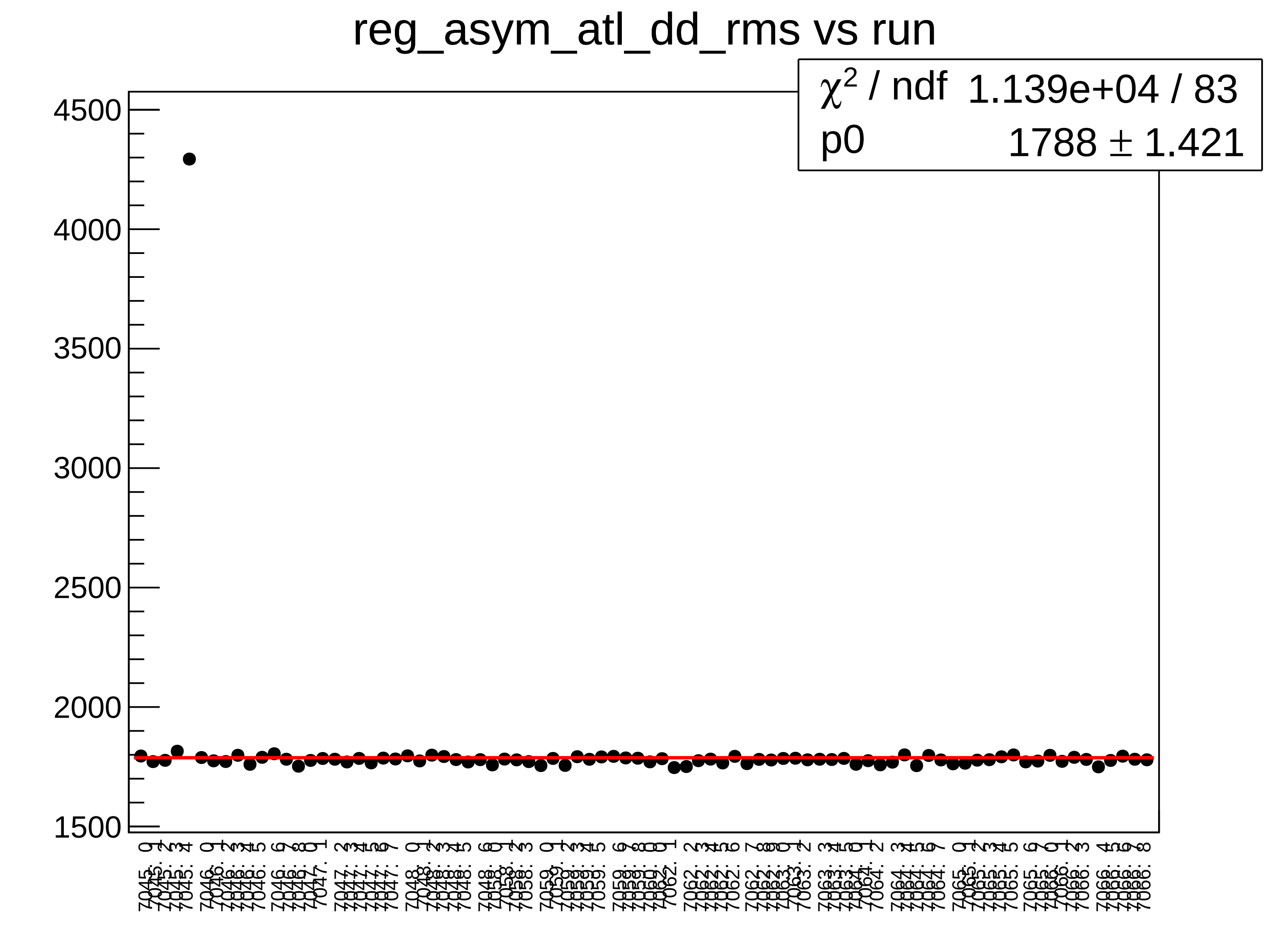


asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 82.97 / 83
p0 7152 ± 7253
pull
Entries 84
Mean 213
Std Dev 160.9
pull1D
Entries 84
Mean 0.03886
Std Dev 0.9931

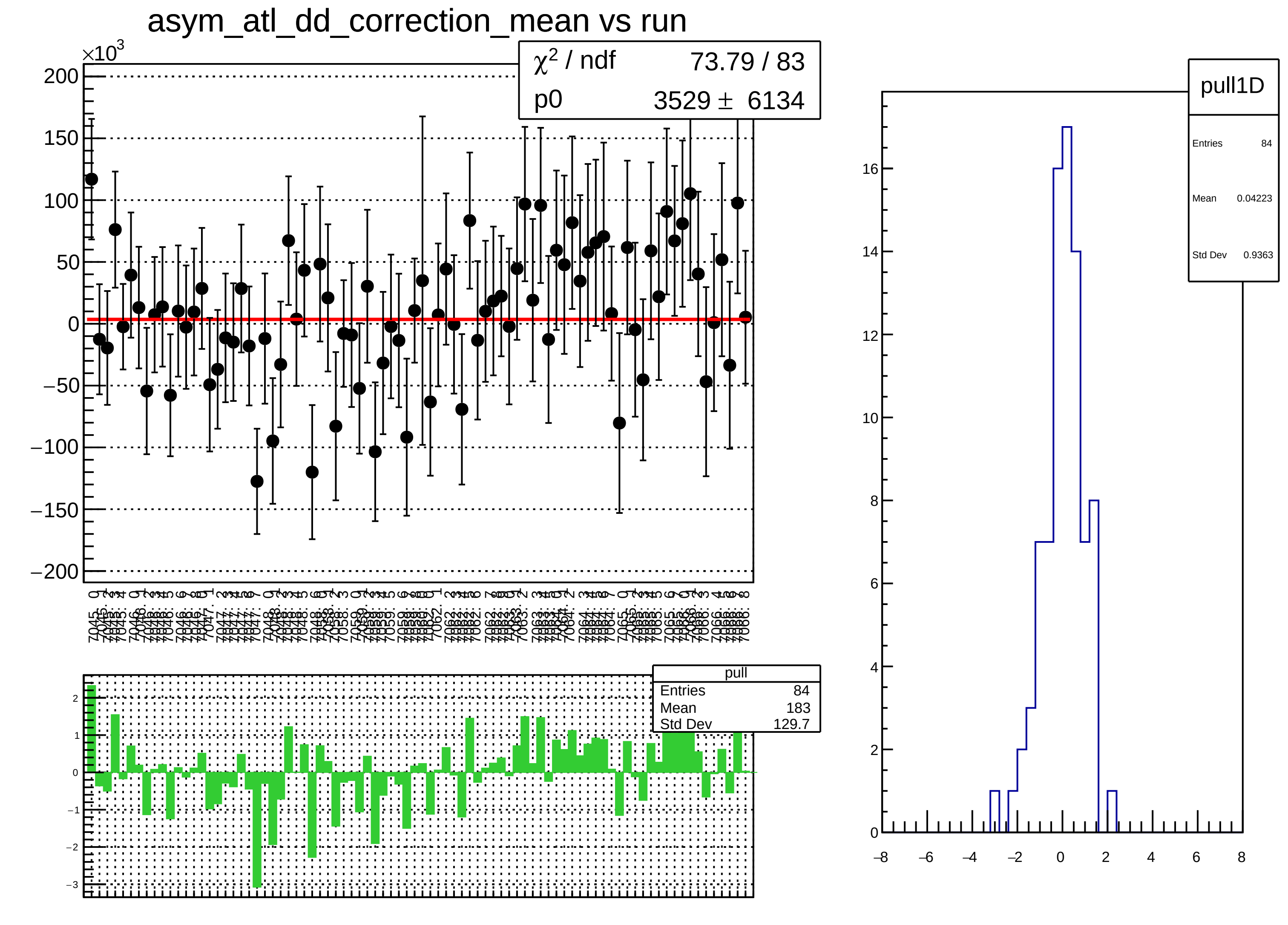


asym_atl_avg_rms vs run
$\chi^2$ / ndf 2.467e+04 / 83
p0 6427 ± 5.129
8500
8000
7500
7000
6500
6000
5500
5000

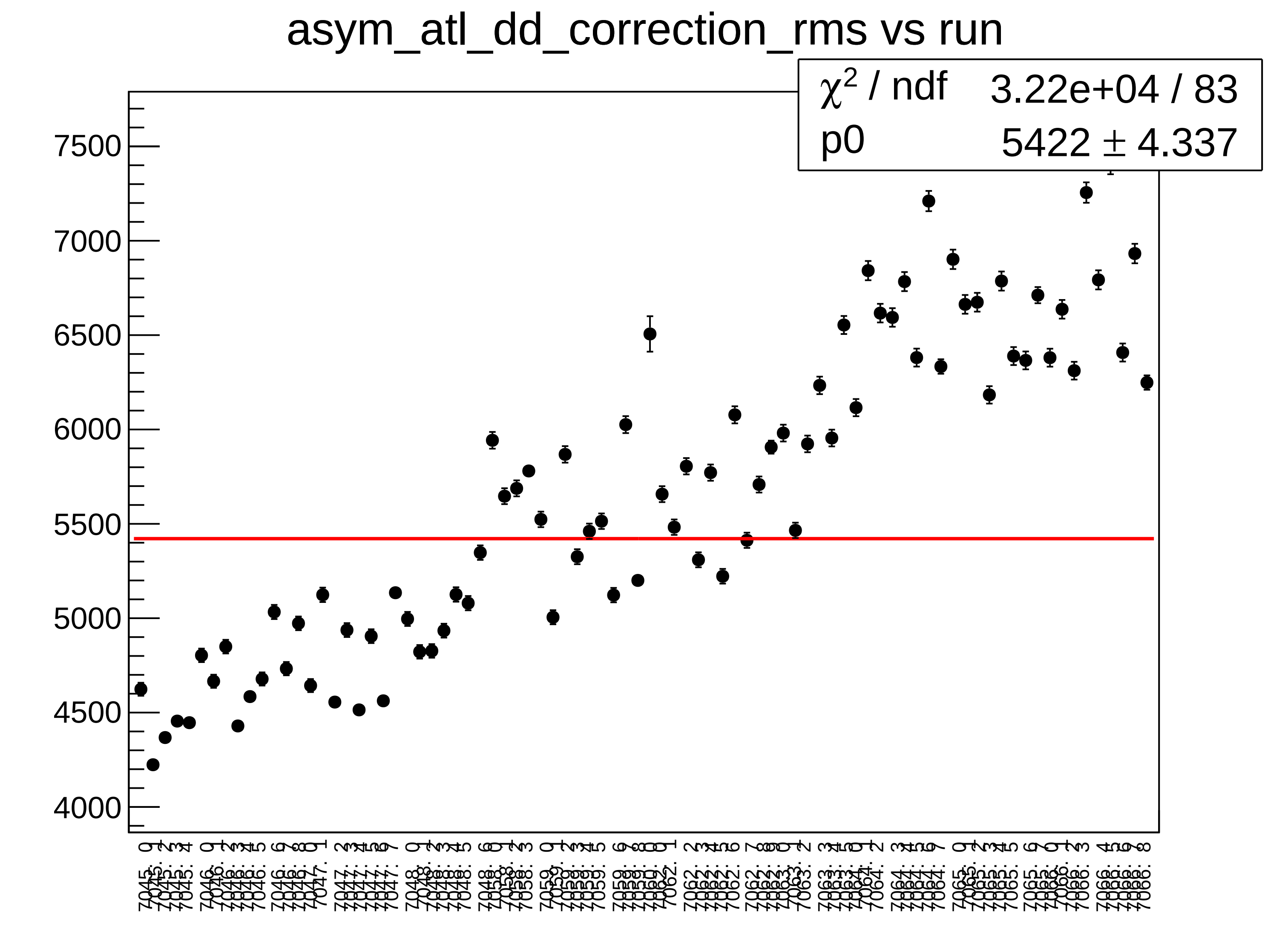

reg_asym_atl_dd_mean vs run
$\chi^2$ / ndf 58.21 / 83
p0 −3325 ± 2009
pull
Entries 84
Mean −1256
Std Dev 1300
pull1D
Entries 84
Mean −0.001655
Std Dev 0.8325



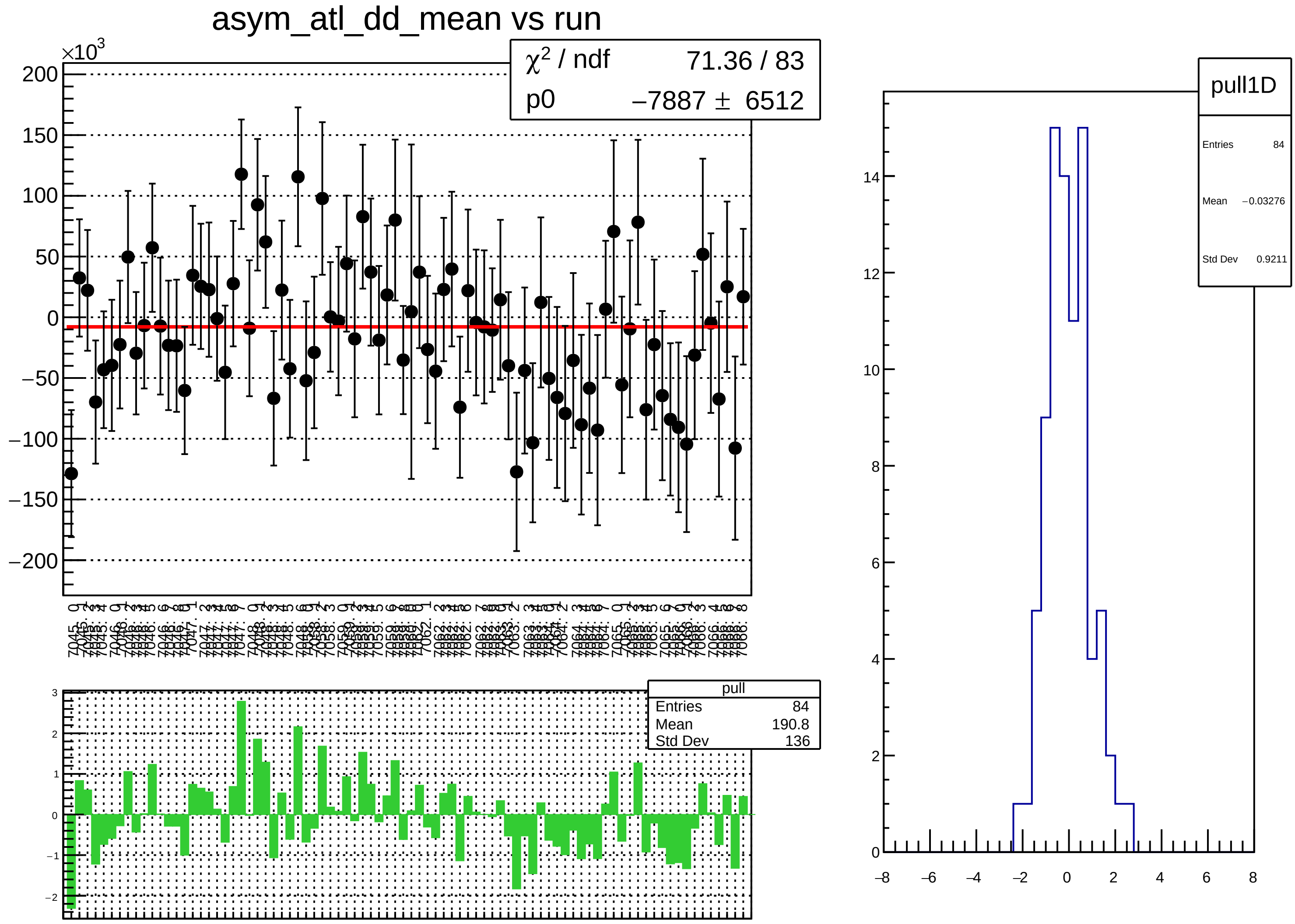
reg_asym_atl_dd_rms vs run
$\chi^2$ / ndf 1.139e+04 / 83
p0 1788 ± 1.421
4500
4000
3500
3000
2500
2000
1500



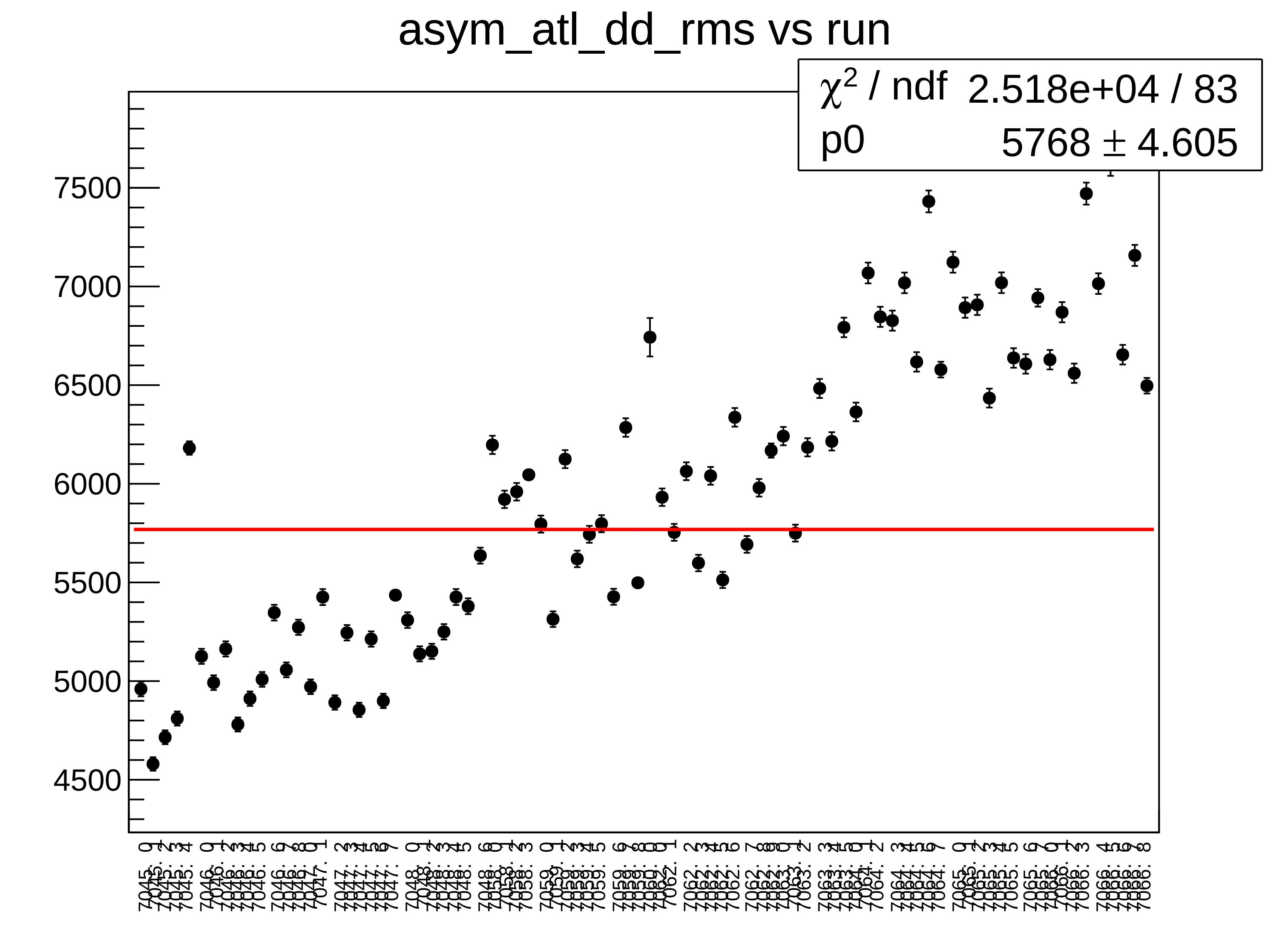
asym_atl_dd_correction_mean vs run
χ2 / ndf 73.79 / 83
p0 3529 ± 6134
pull
Entries 84
Mean 183
Std Dev 129.7
pull1D
Entries 84
Mean 0.04223
Std Dev 0.9363

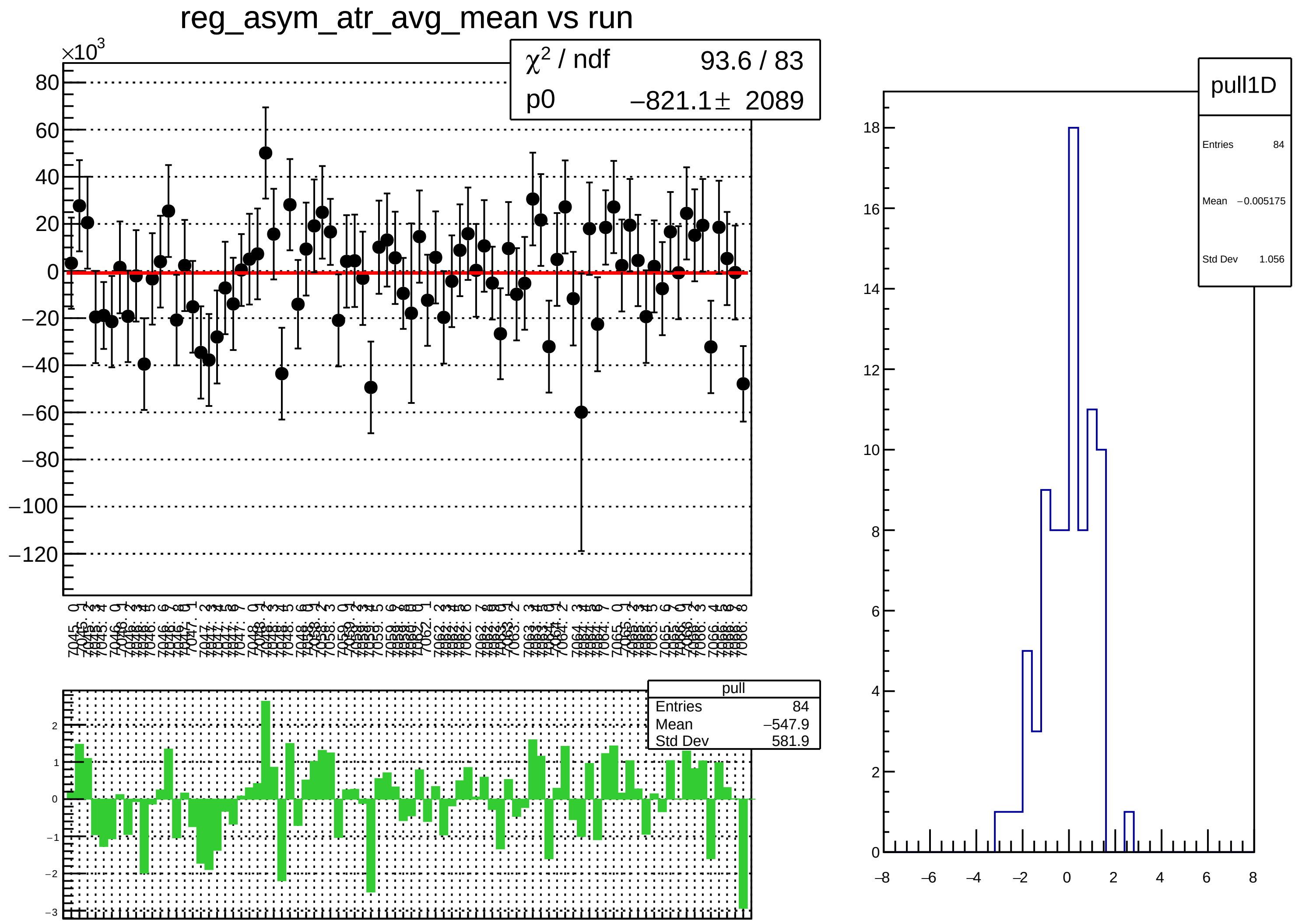


asym_atl_dd_correction_rms vs run
$\chi^2$ / ndf 3.22e+04 / 83
p0 5422 ± 4.337
7500
7000
6500
6000
5500
5000
4500
4000

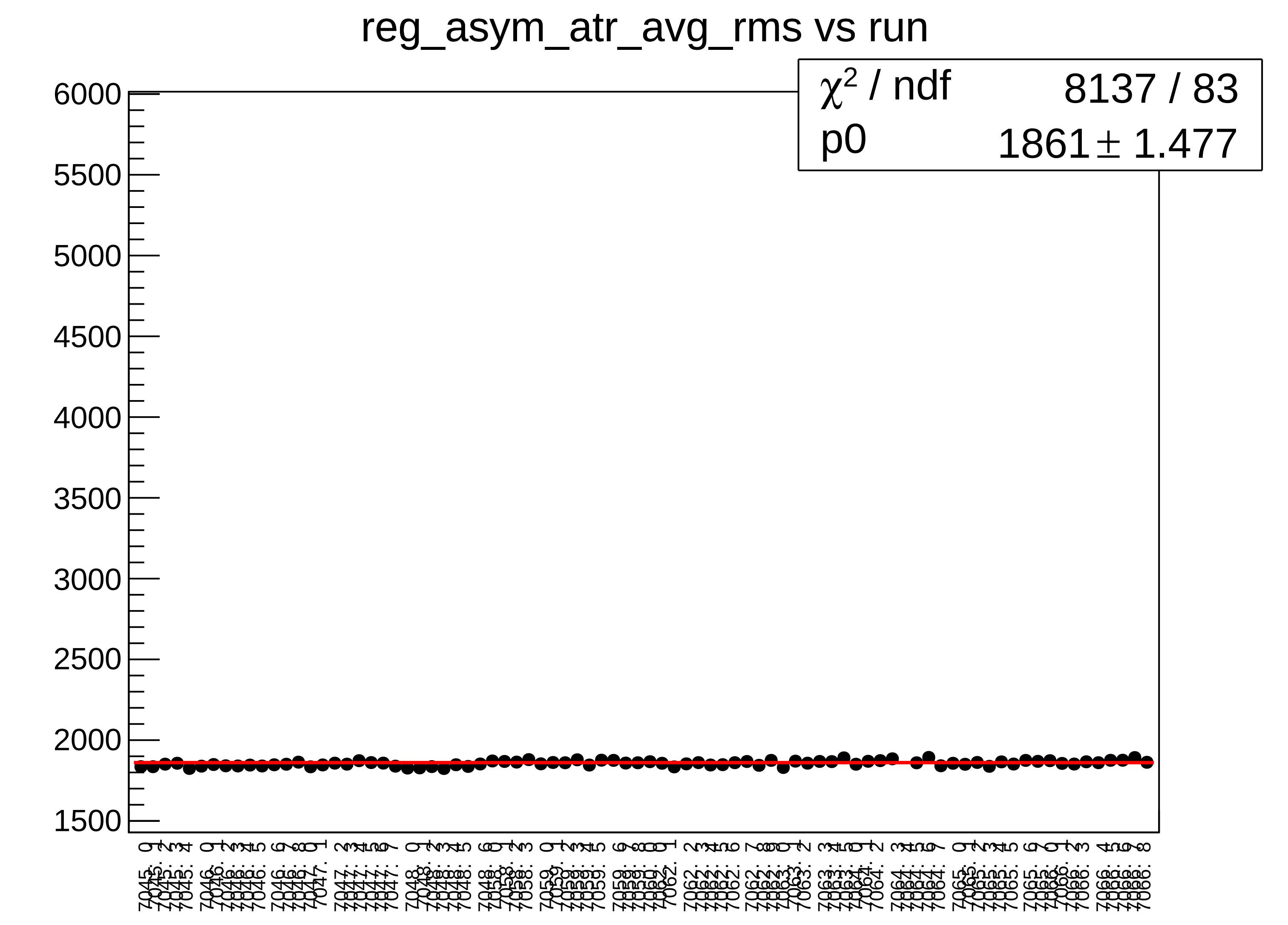


asym_atl_dd_mean vs run
$\times 10^3$
$\chi^2$ / ndf 71.36 / 83
p0 −7887 ± 6512
pull
Entries 84
Mean 190.8
Std Dev 136
pull1D
Entries 84
Mean −0.03276
Std Dev 0.9211

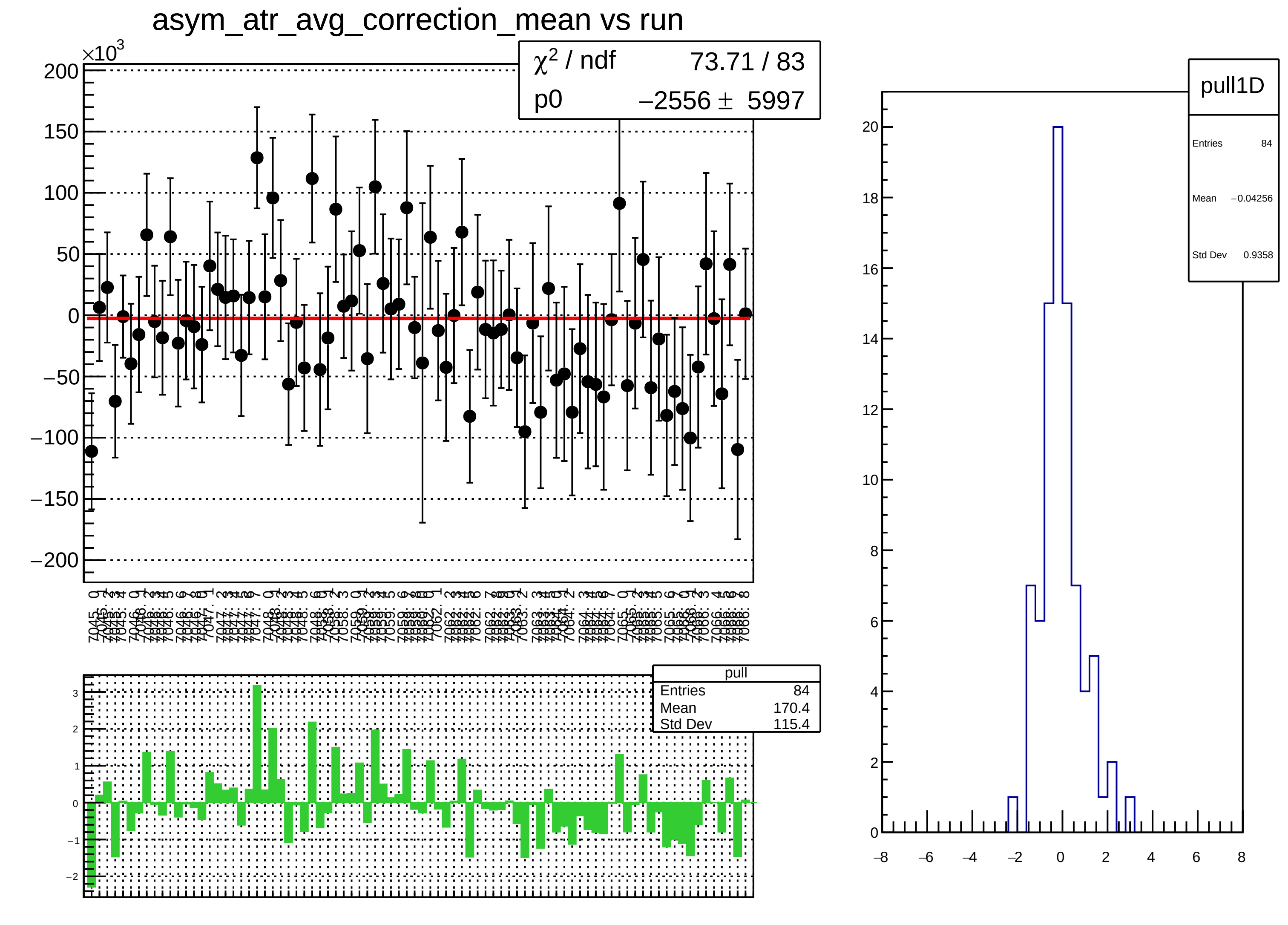

asym_atl_dd_rms vs run
χ2 / ndf 2.518e+04 / 83
p0 5768 ± 4.605
7500
7000
6500
6000
5500
5000
4500



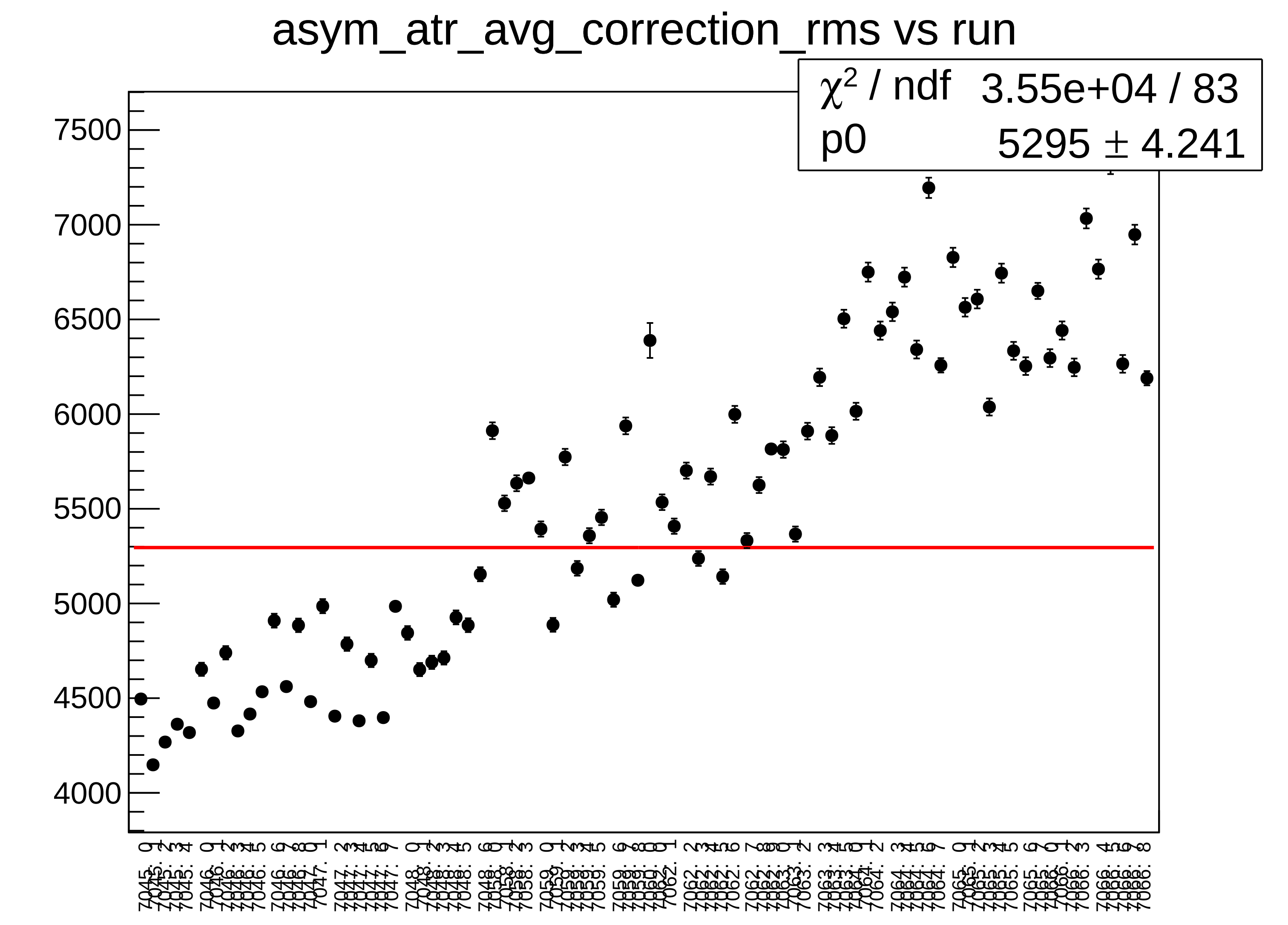
reg_asym_atr_avg_mean vs run
$\times10^3$
$\chi^2$ / ndf 93.6 / 83
p0 −821.1 ± 2089
pull
Entries 84
Mean −547.9
Std Dev 581.9
pull1D
Entries 84
Mean −0.005175
Std Dev 1.056

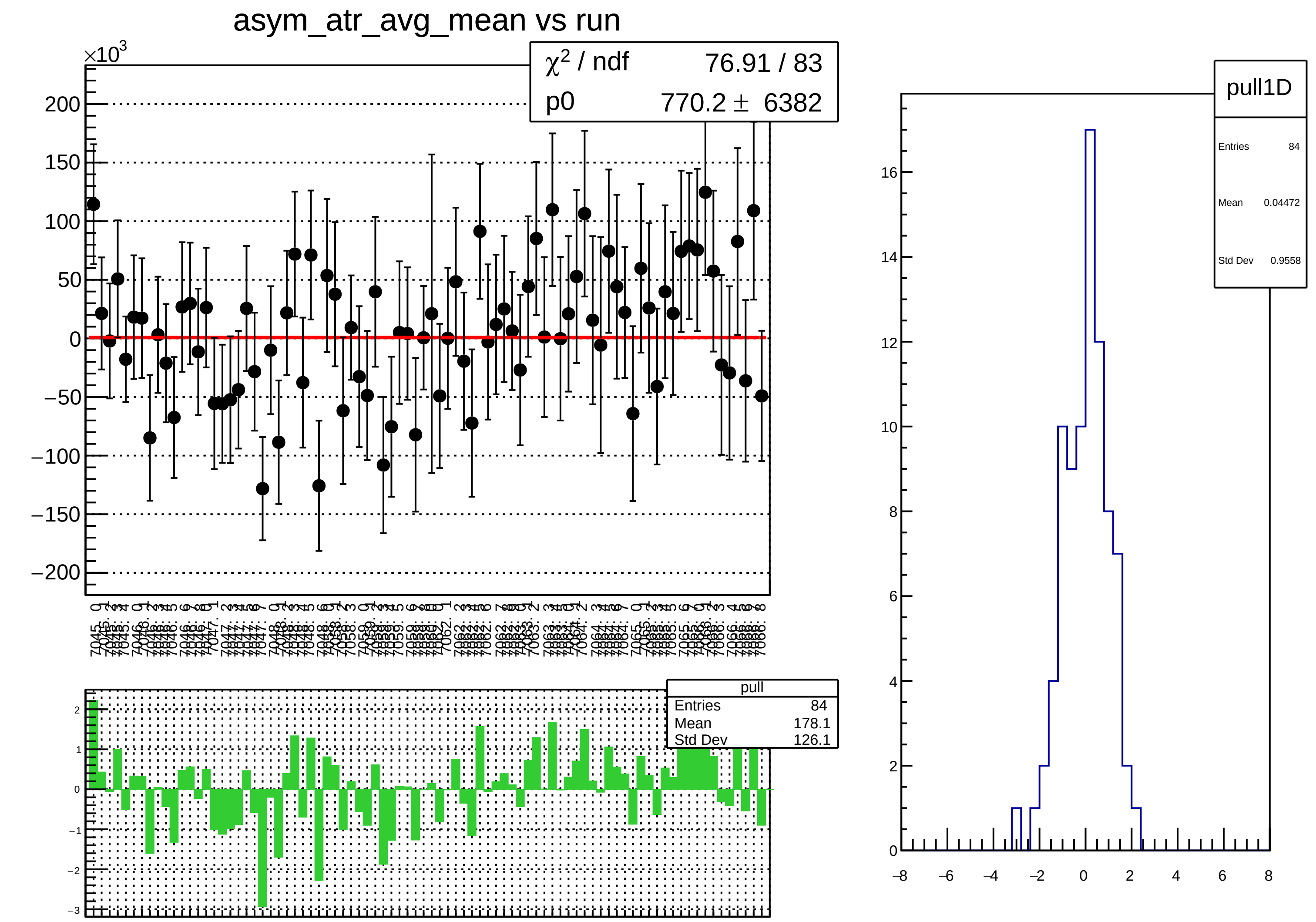


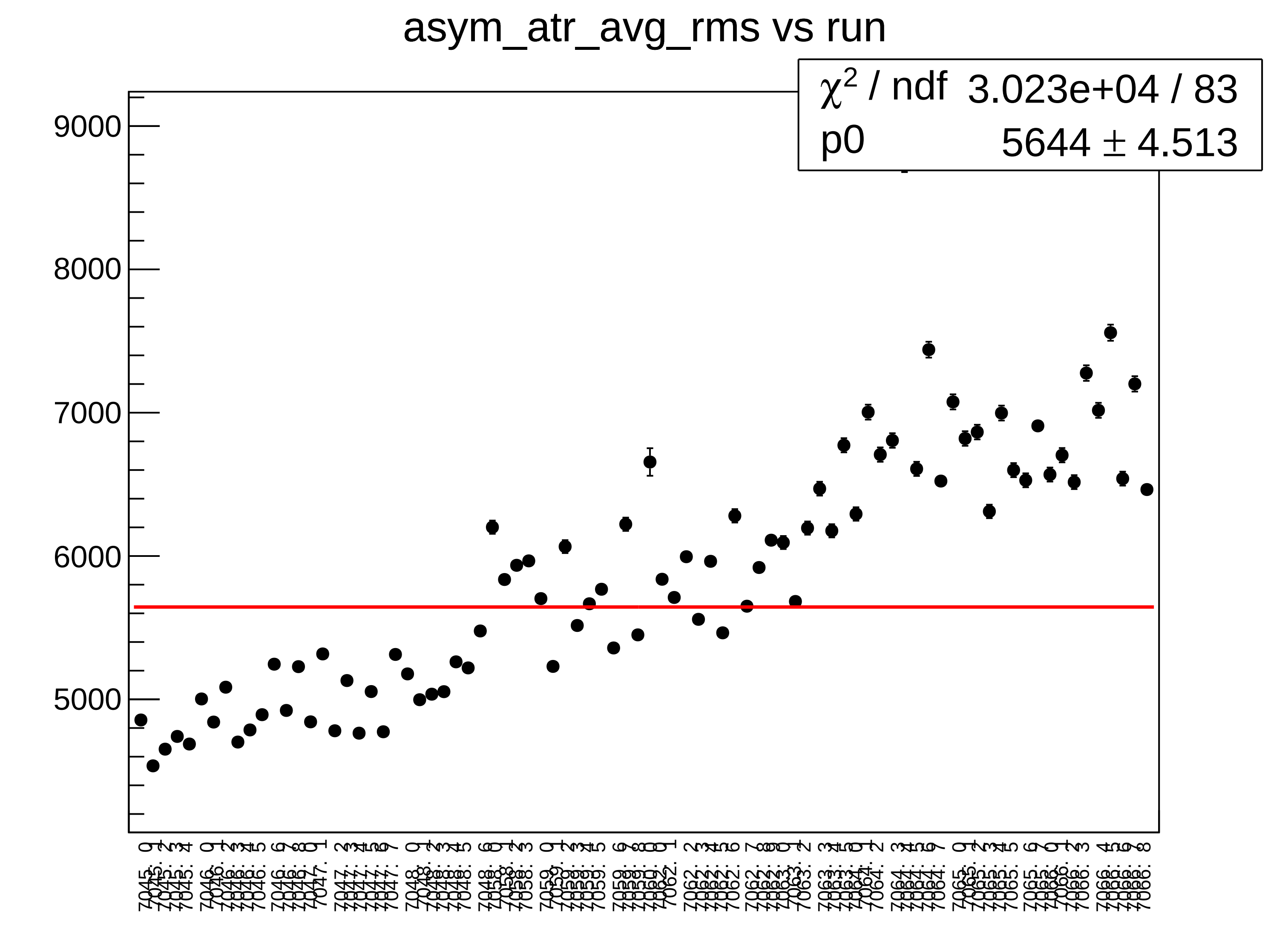
reg_asym_atr_avg_rms vs run
χ² / ndf 8137 / 83
p0 1861 ± 1.477
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500



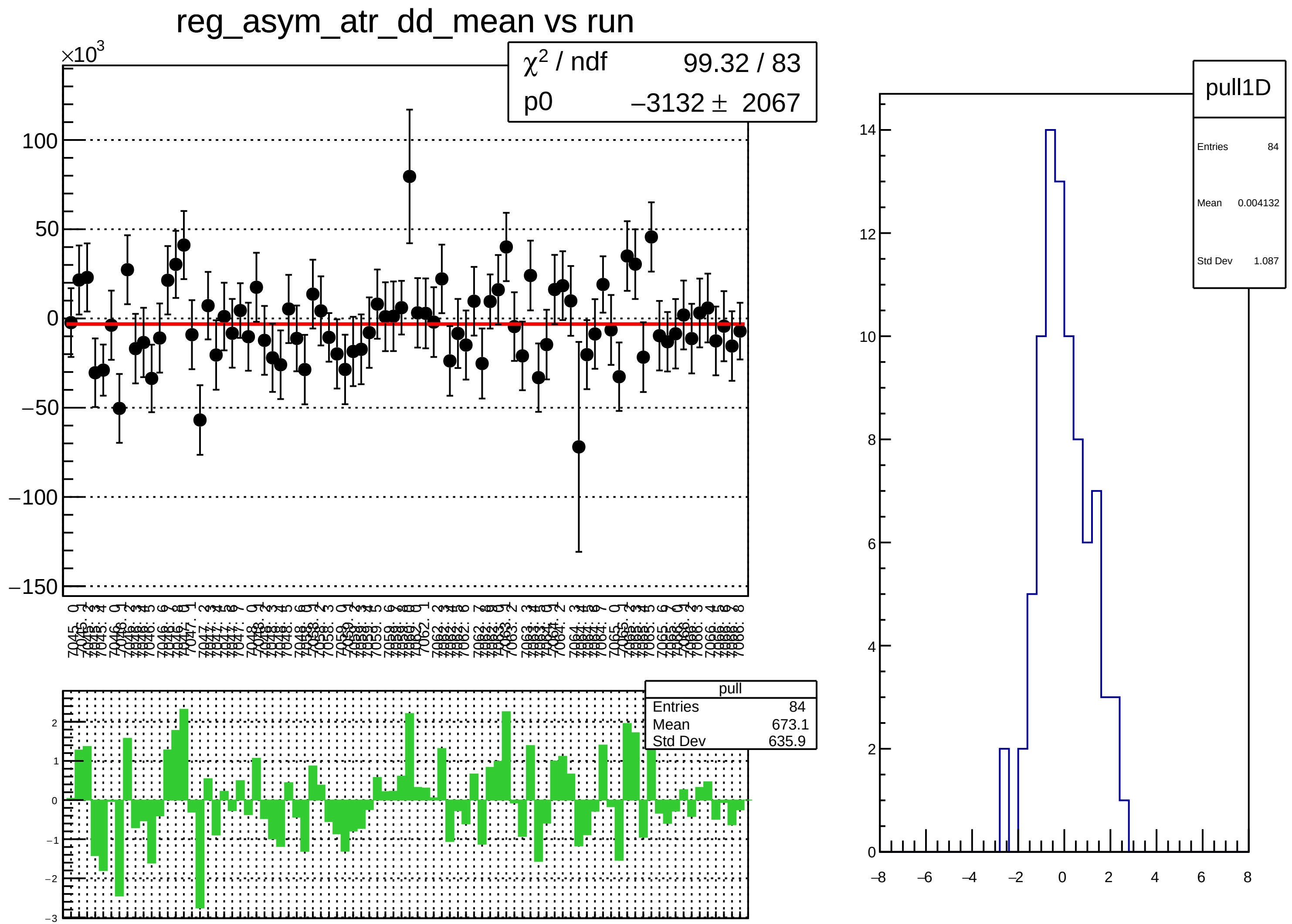
asym_atr_avg_correction_mean vs run
$\chi^2$ / ndf 73.71 / 83
p0 −2556 ± 5997
$\times10^3$
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 170.4
Std Dev 115.4
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.04256
Std Dev 0.9358
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_correction_rms vs run
$\chi^2$ / ndf 3.55e+04 / 83
p0 5295 ± 4.241
7500
7000
6500
6000
5500
5000
4500
4000

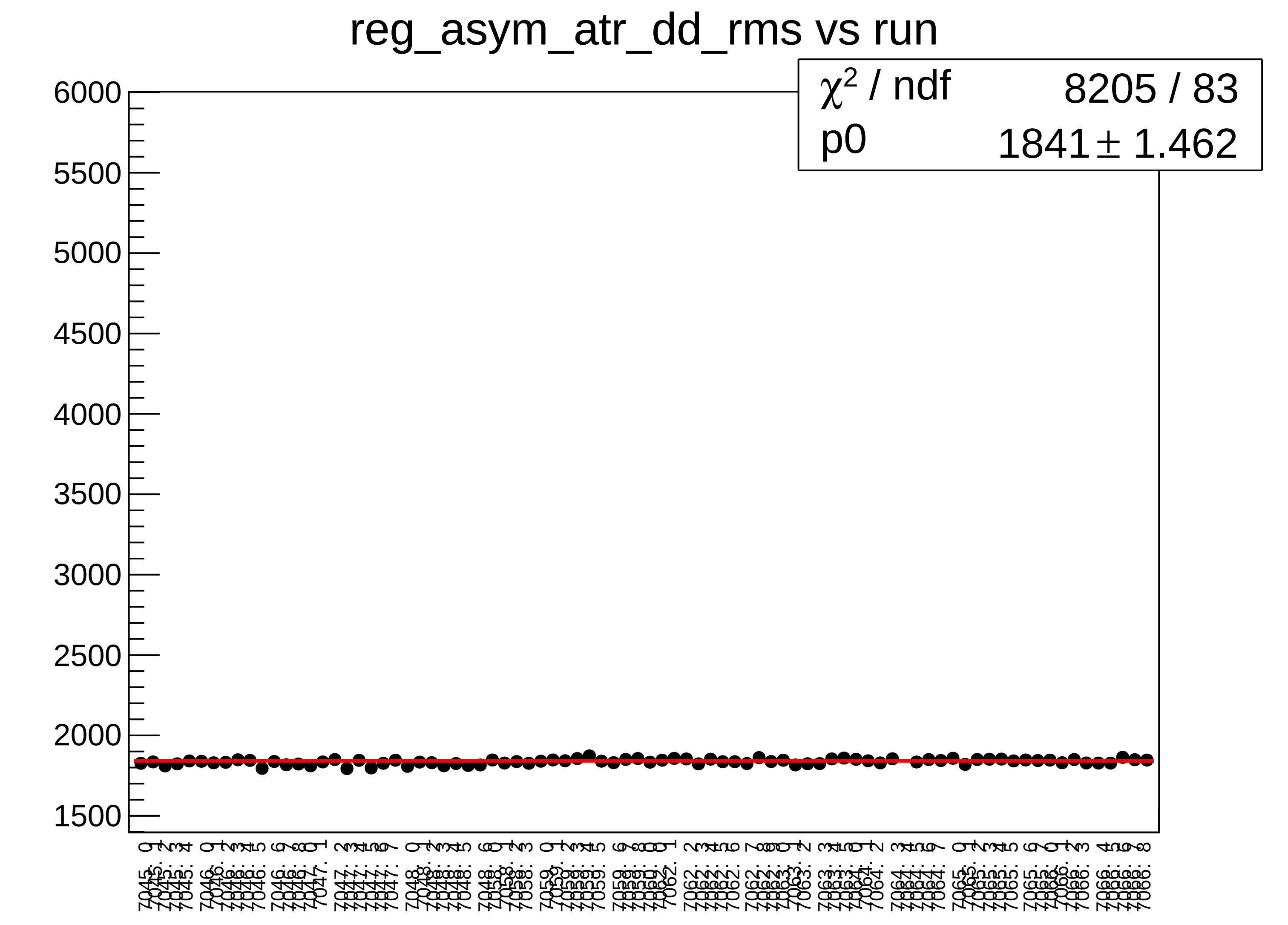

asym_atr_avg_mean vs run
$\times 10^3$
$\chi^2$ / ndf 76.91 / 83
p0 770.2 ± 6382
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 178.1
Std Dev 126.1
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.04472
Std Dev 0.9558
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



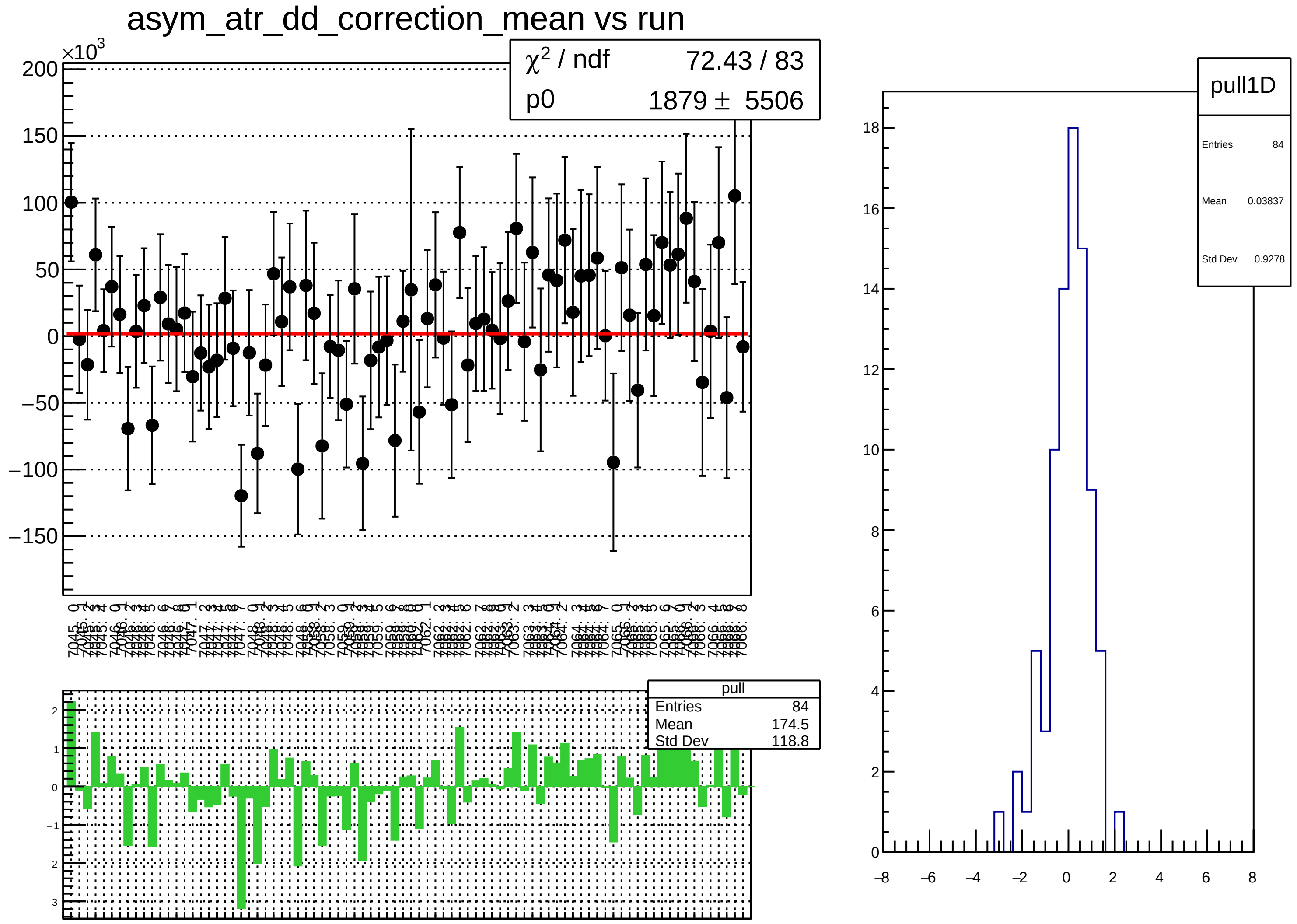
asym_atr_avg_rms vs run
$\chi^2$ / ndf 3.023e+04 / 83
p0 5644 ± 4.513
9000
8000
7000
6000
5000



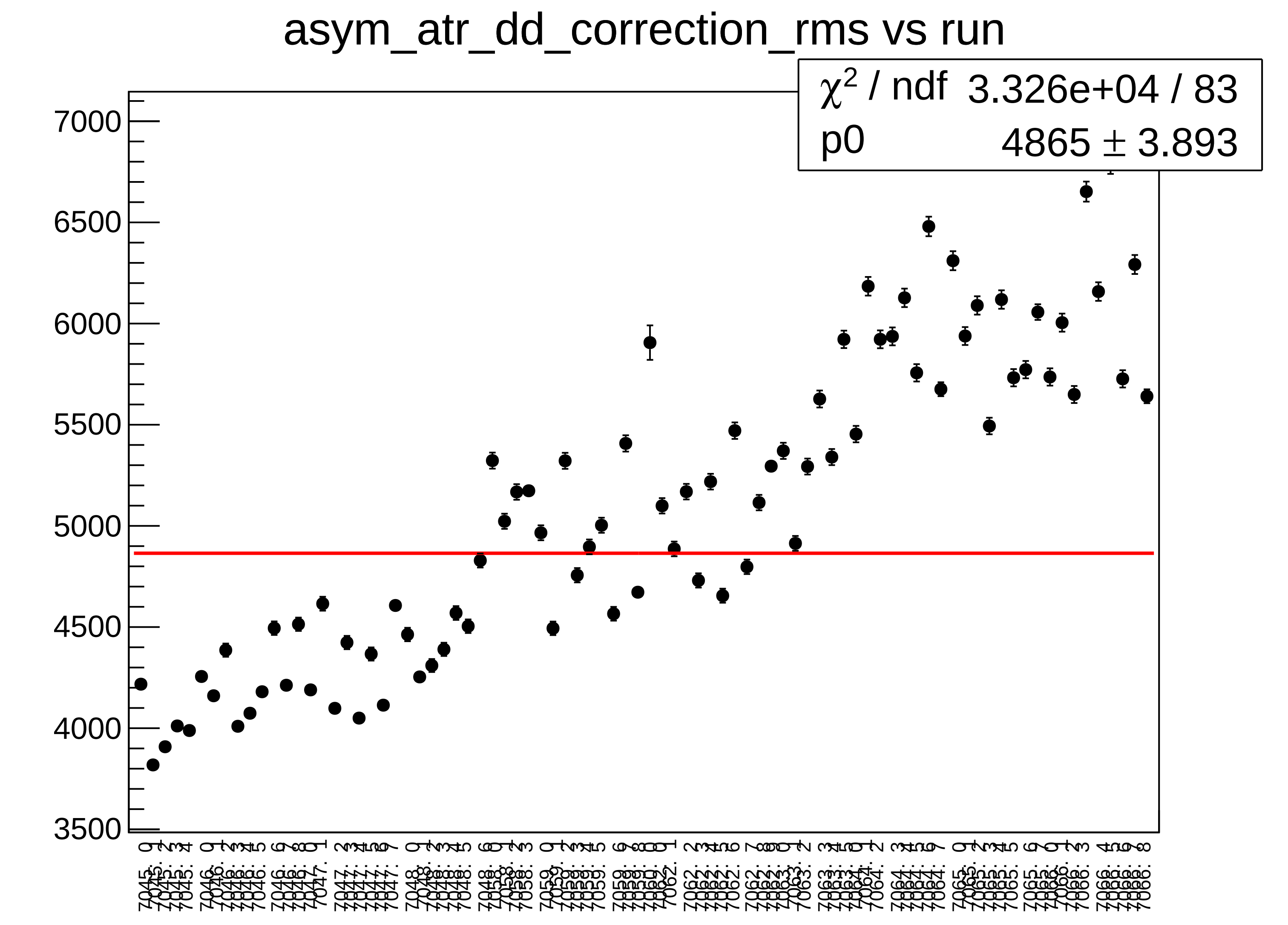
reg_asym_atr_dd_mean vs run
χ2 / ndf 99.32 / 83
p0 −3132 ± 2067
×10^3
pull
Entries 84
Mean 673.1
Std Dev 635.9
pull1D
Entries 84
Mean 0.004132
Std Dev 1.087

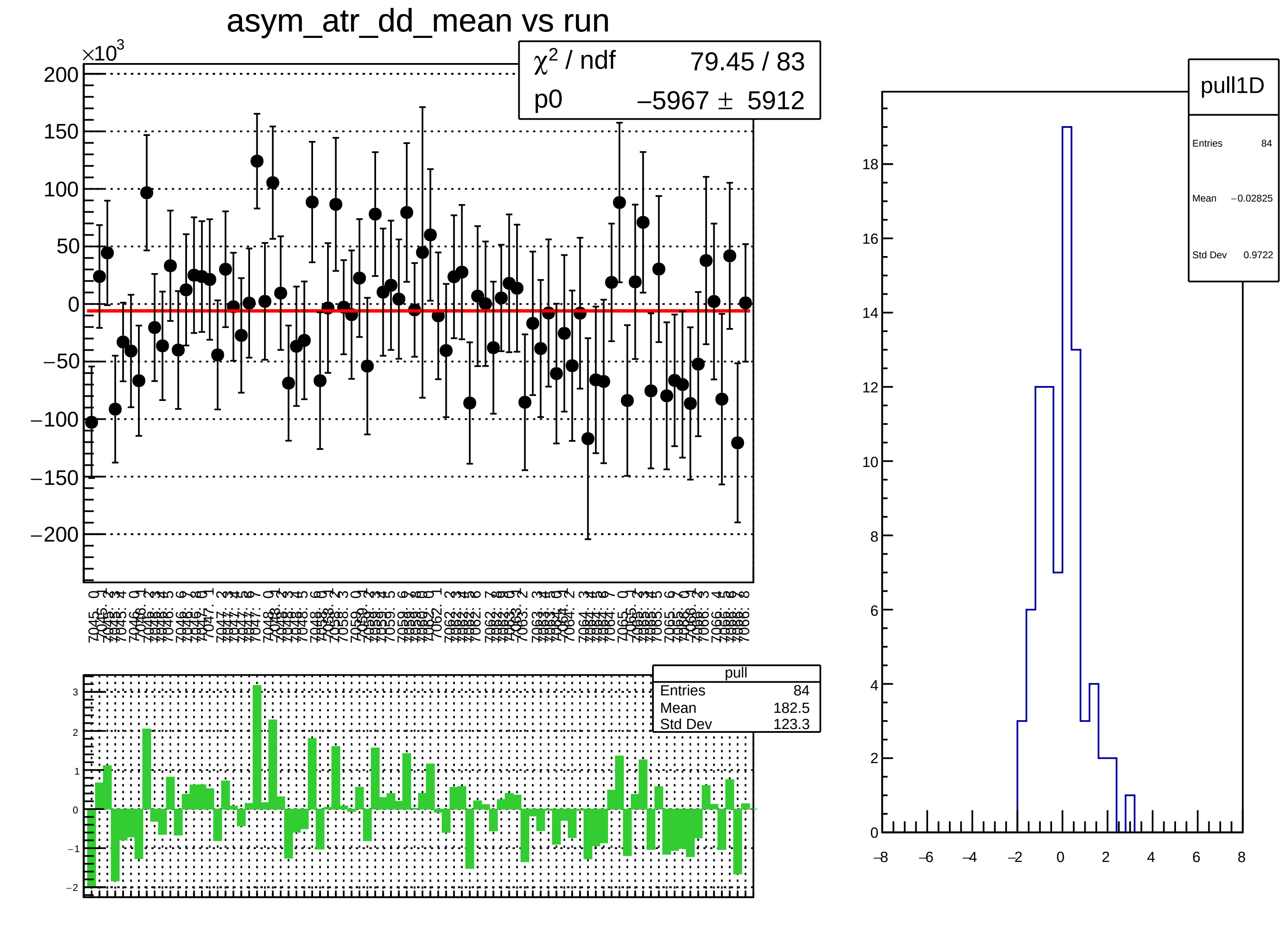


reg_asym_atr_dd_rms vs run
$\chi^2$ / ndf 8205 / 83
p0 1841 ± 1.462
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

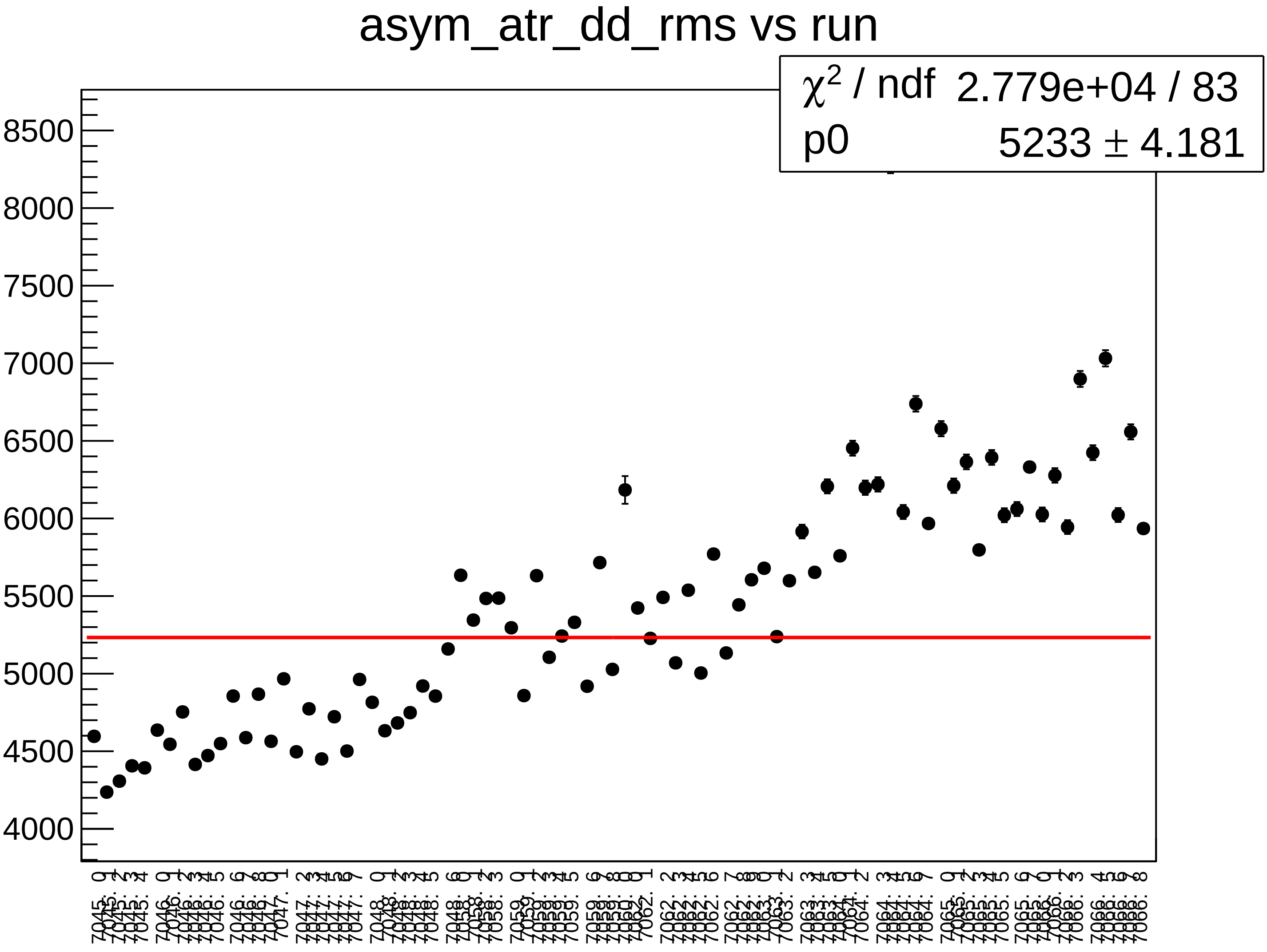


asym_atr_dd_correction_mean vs run
×10^3
χ^2 / ndf 72.43 / 83
p0 1879 ± 5506
pull
Entries 84
Mean 174.5
Std Dev 118.8
pull1D
Entries 84
Mean 0.03837
Std Dev 0.9278

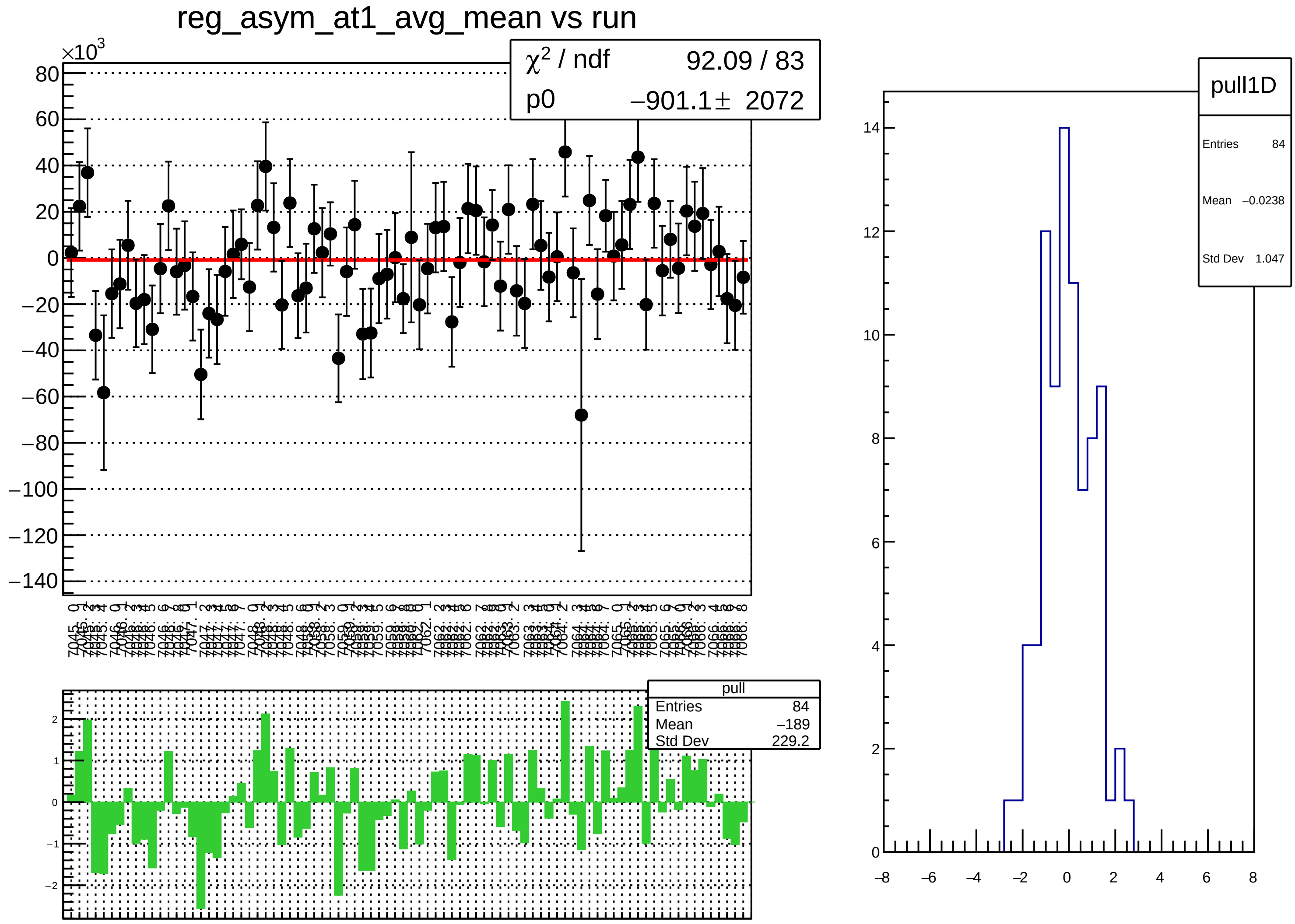

asym_atr_dd_correction_rms vs run
$\chi^2$ / ndf 3.326e+04 / 83
p0 4865 ± 3.893
7000
6500
6000
5500
5000
4500
4000
3500



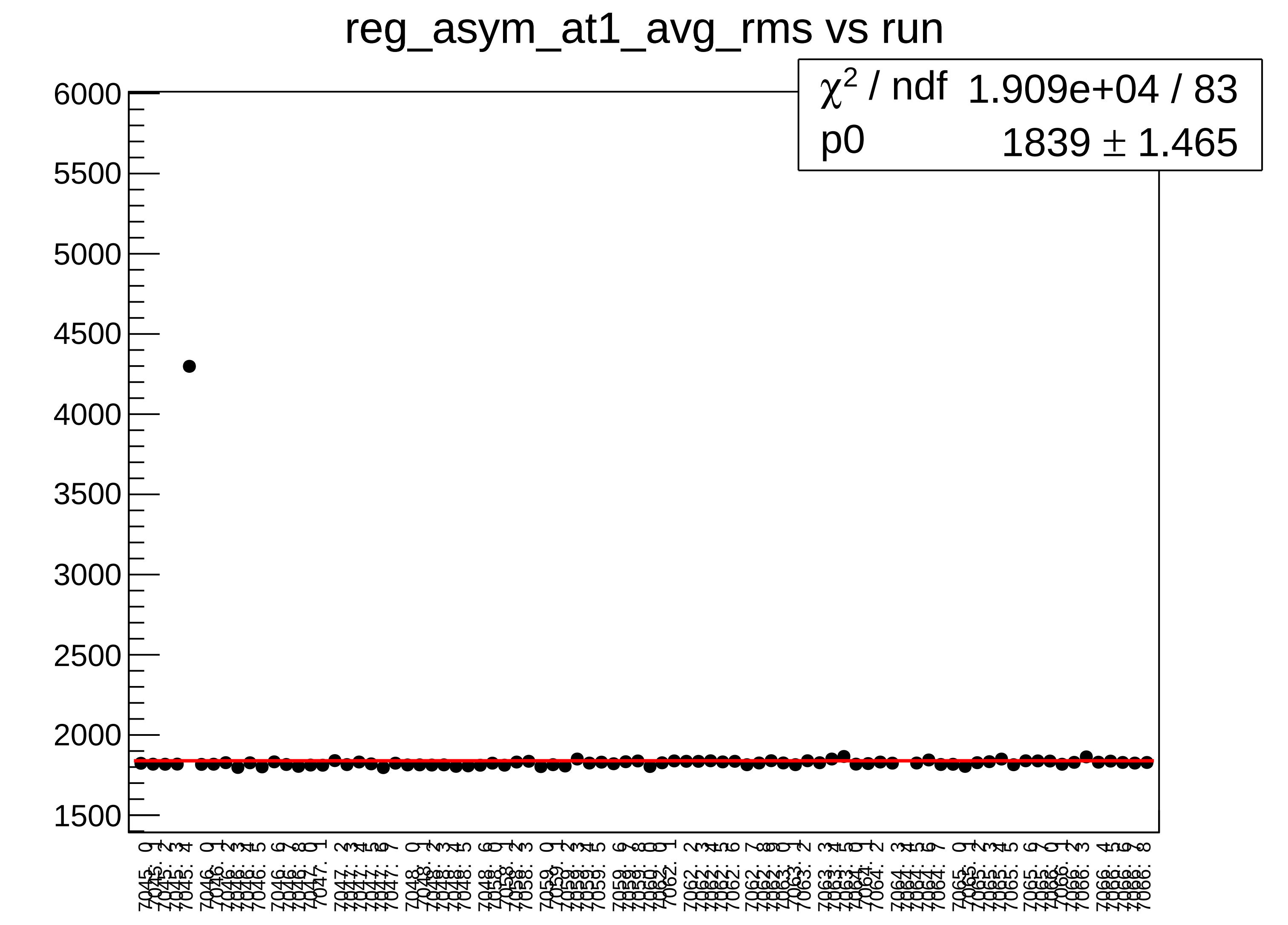
asym_atr_dd_mean vs run
×10^3
χ2 / ndf 79.45 / 83
p0 −5967 ± 5912
pull
Entries 84
Mean 182.5
Std Dev 123.3
pull1D
Entries 84
Mean −0.02825
Std Dev 0.9722



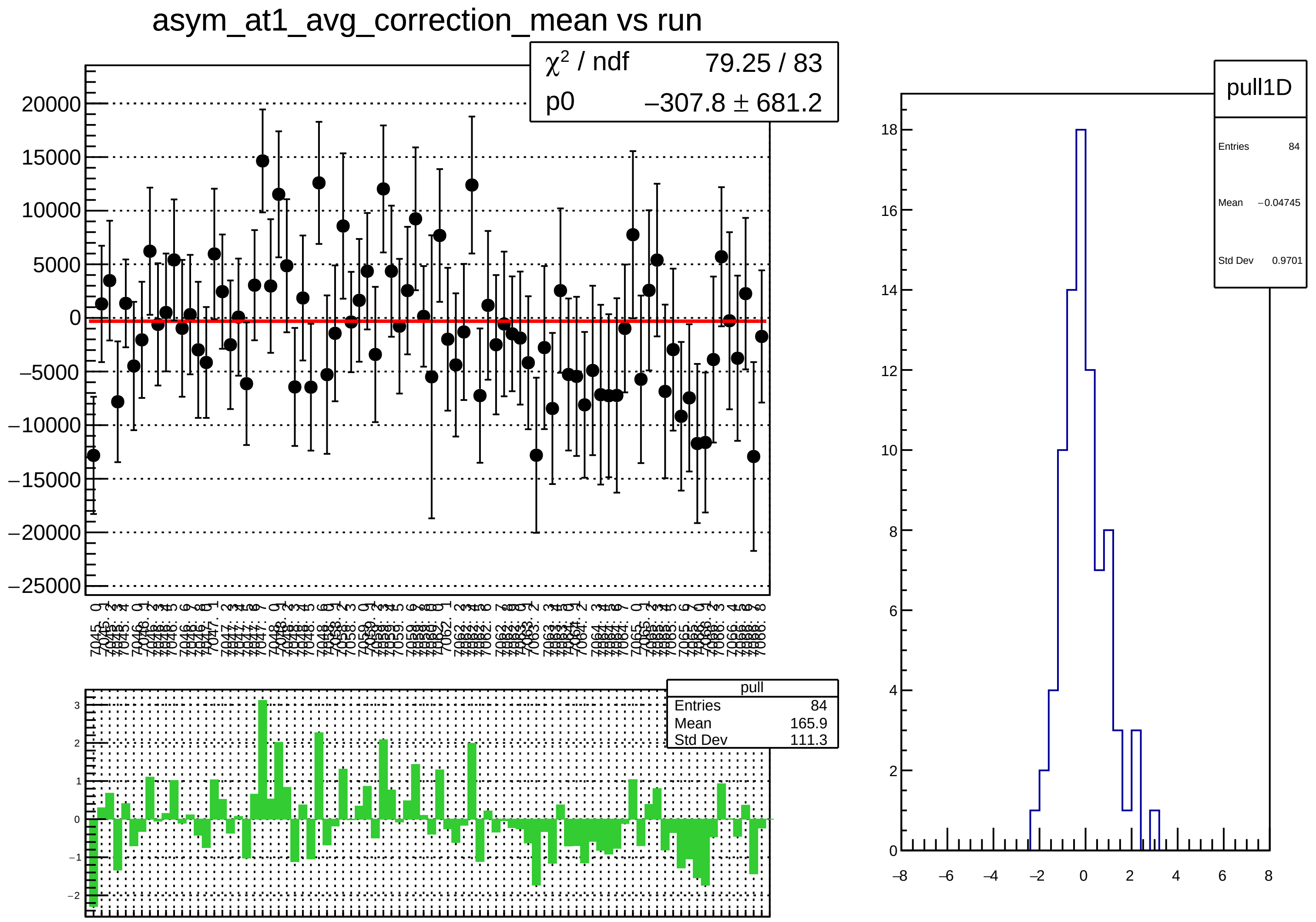
asym_atr_dd_rms vs run
$\chi^2$ / ndf 2.779e+04 / 83
p0 5233 ± 4.181
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000

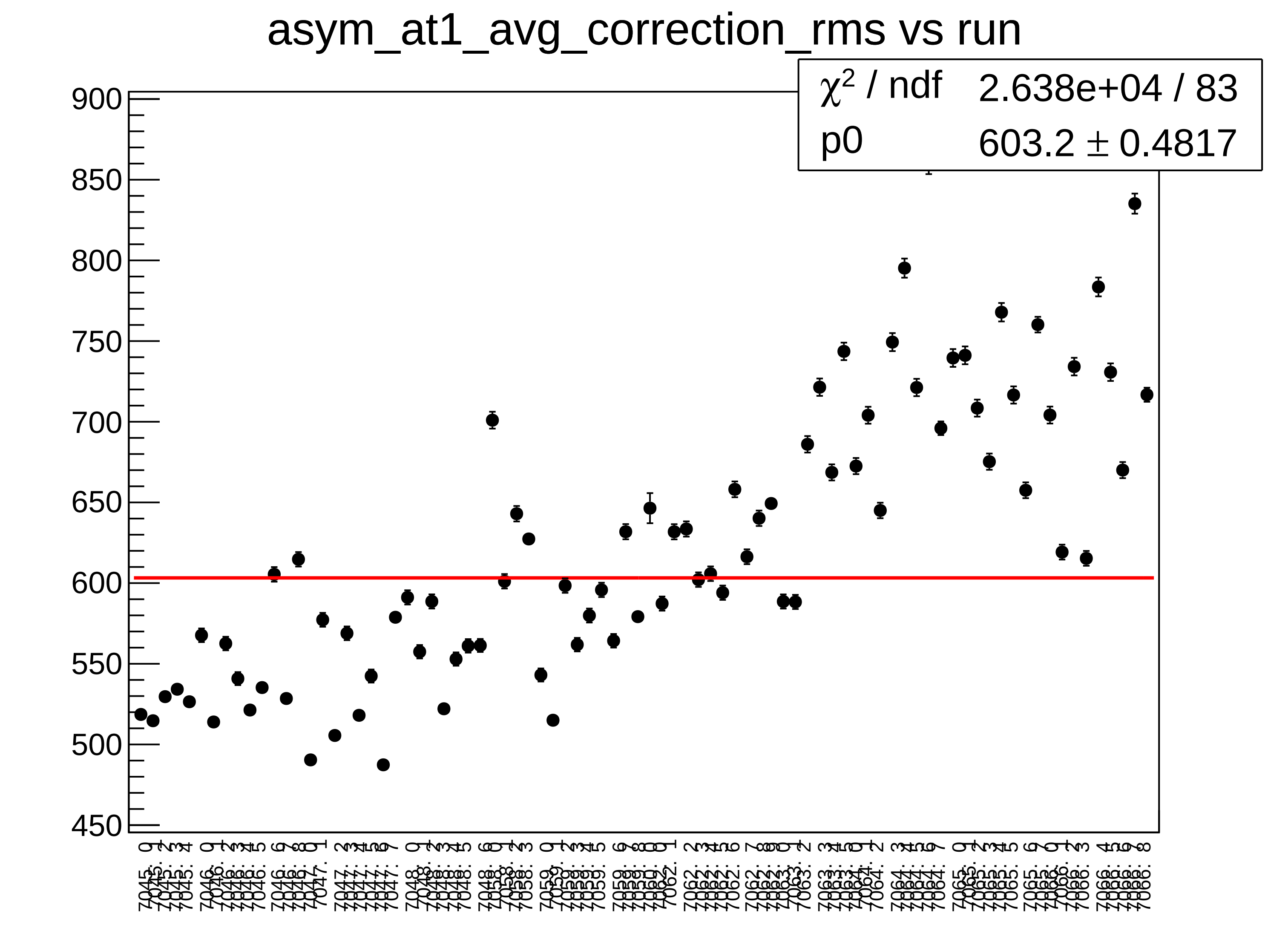


reg_asym_at1_avg_mean vs run
$\chi^2$ / ndf 92.09 / 83
p0 −901.1 ± 2072
pull
Entries 84
Mean −189
Std Dev 229.2
pull1D
Entries 84
Mean −0.0238
Std Dev 1.047

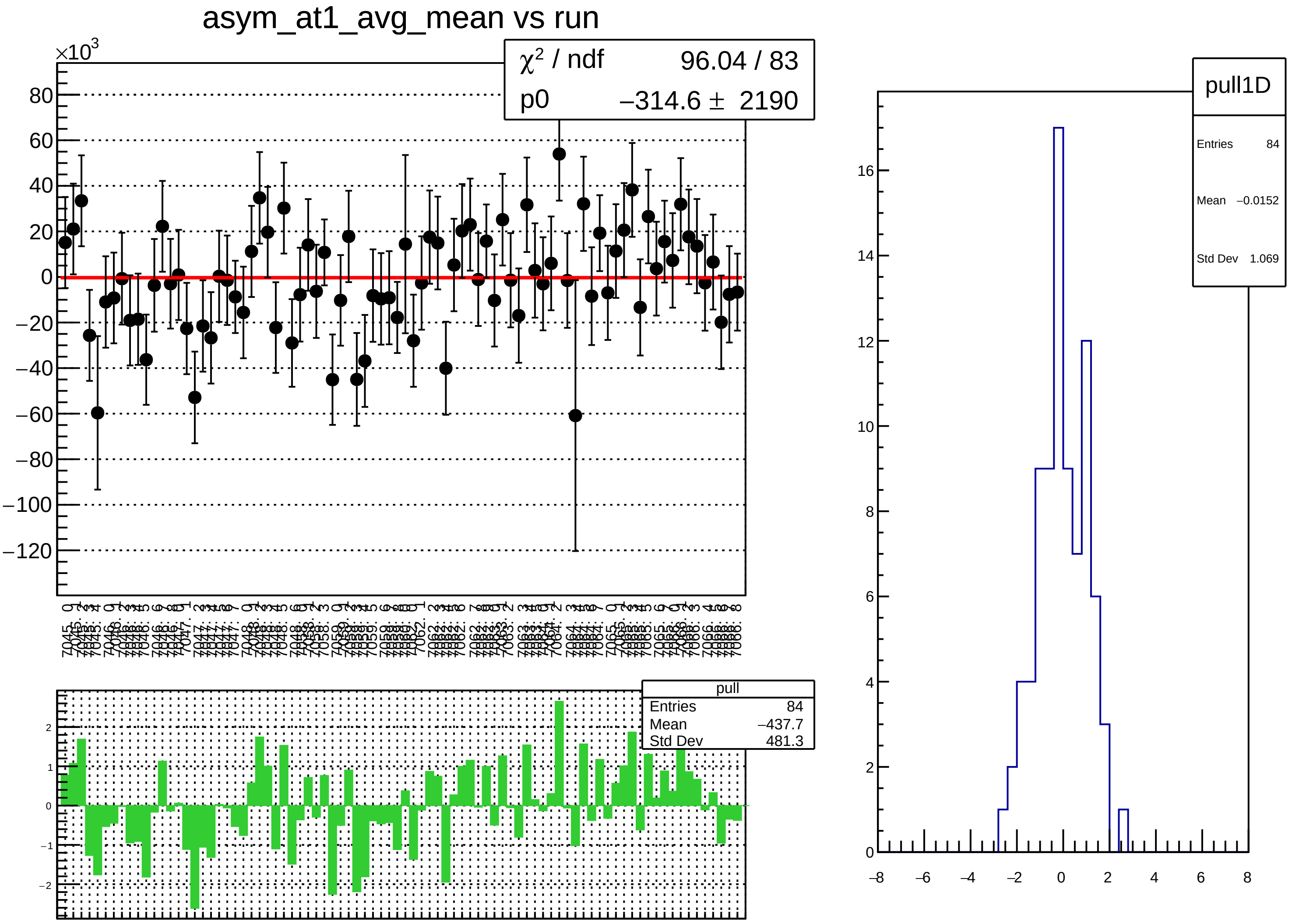


reg_asym_at1_avg_rms vs run
$\chi^2$ / ndf 1.909e+04 / 83
p0 1839 ± 1.465
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

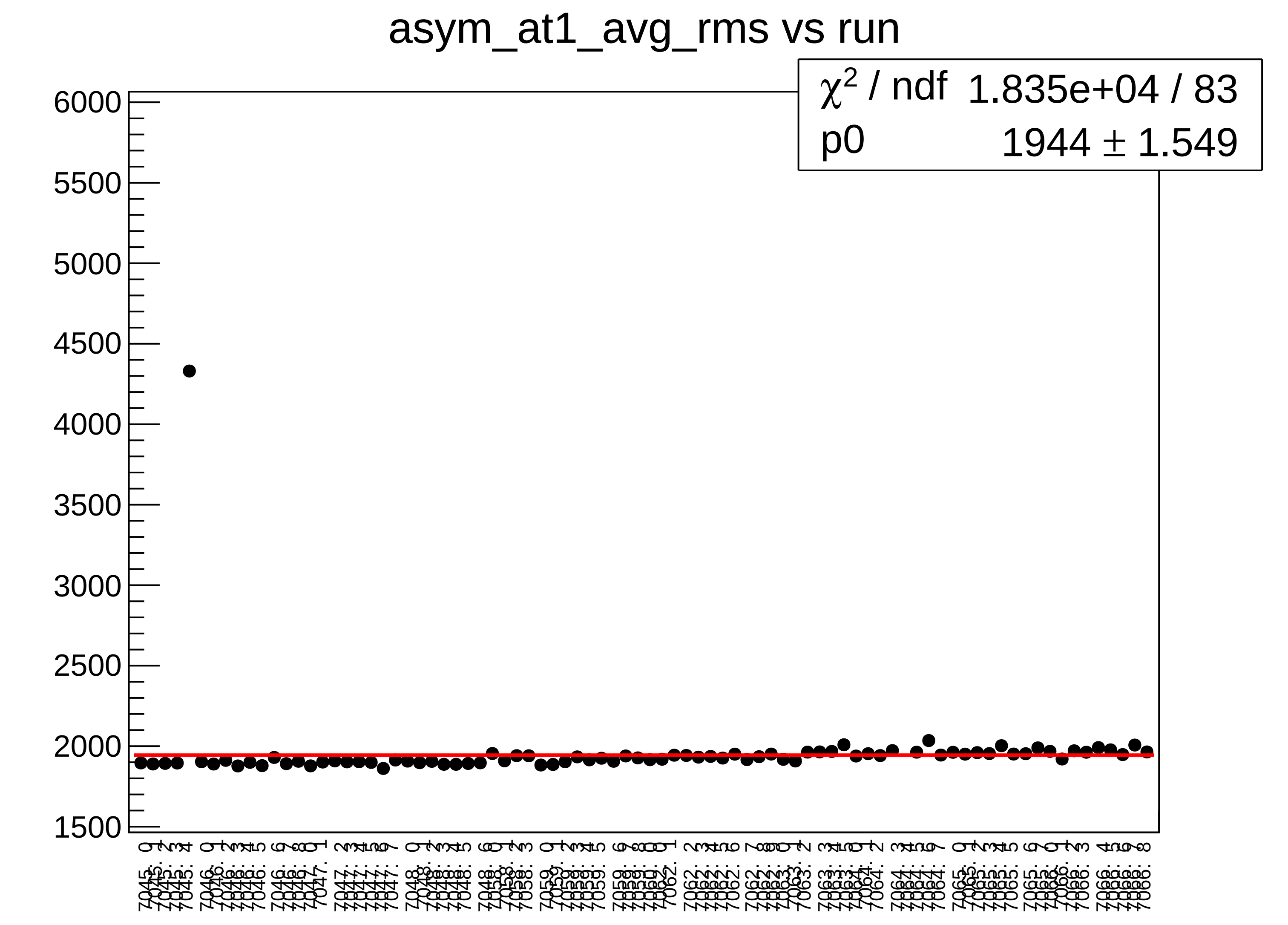

asym_at1_avg_correction_mean vs run
χ2 / ndf 79.25 / 83
p0 −307.8 ± 681.2
pull
Entries 84
Mean 165.9
Std Dev 111.3
pull1D
Entries 84
Mean −0.04745
Std Dev 0.9701



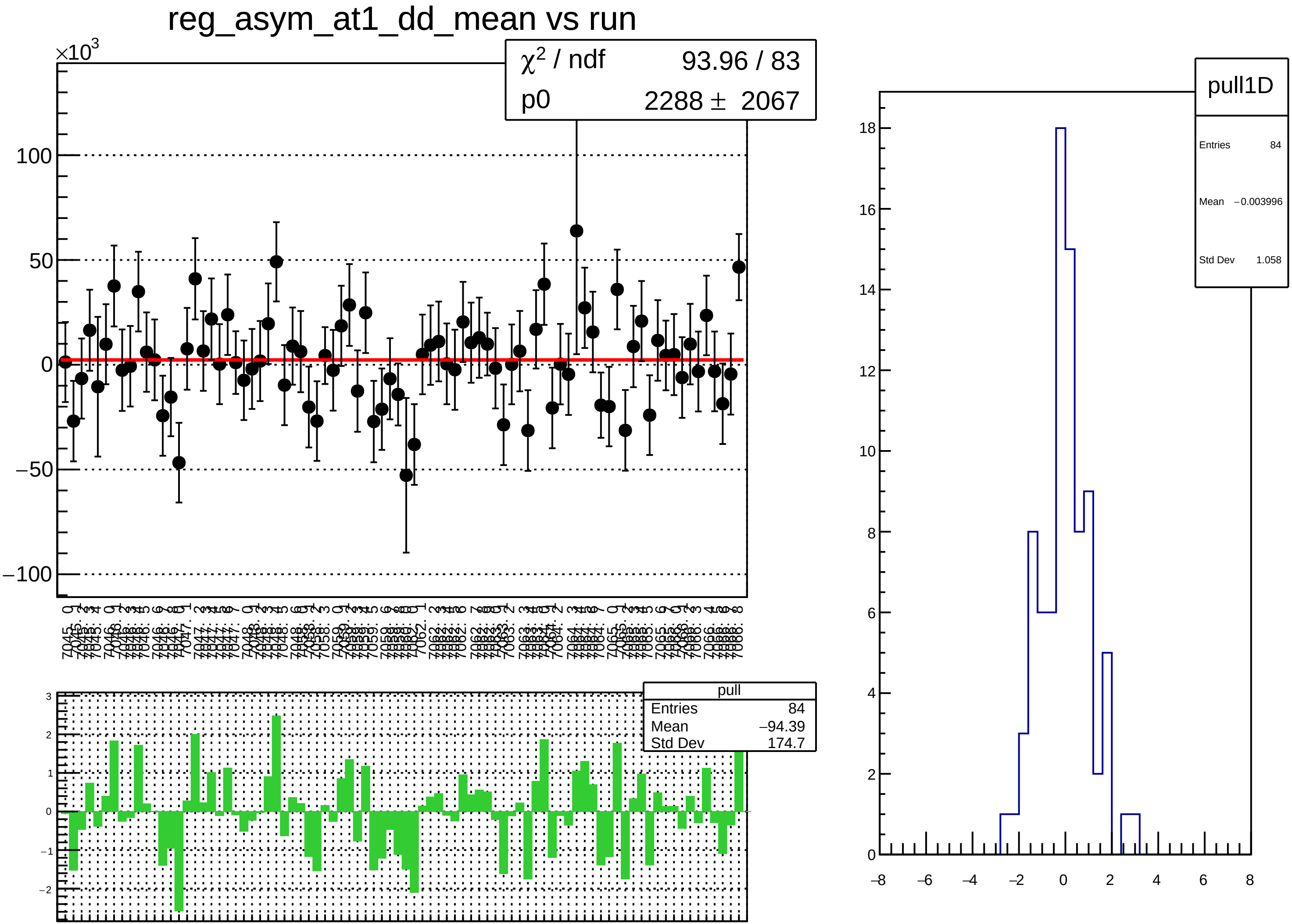
asym_at1_avg_correction_rms vs run
$\chi^2$ / ndf 2.638e+04 / 83
p0 603.2 ± 0.4817



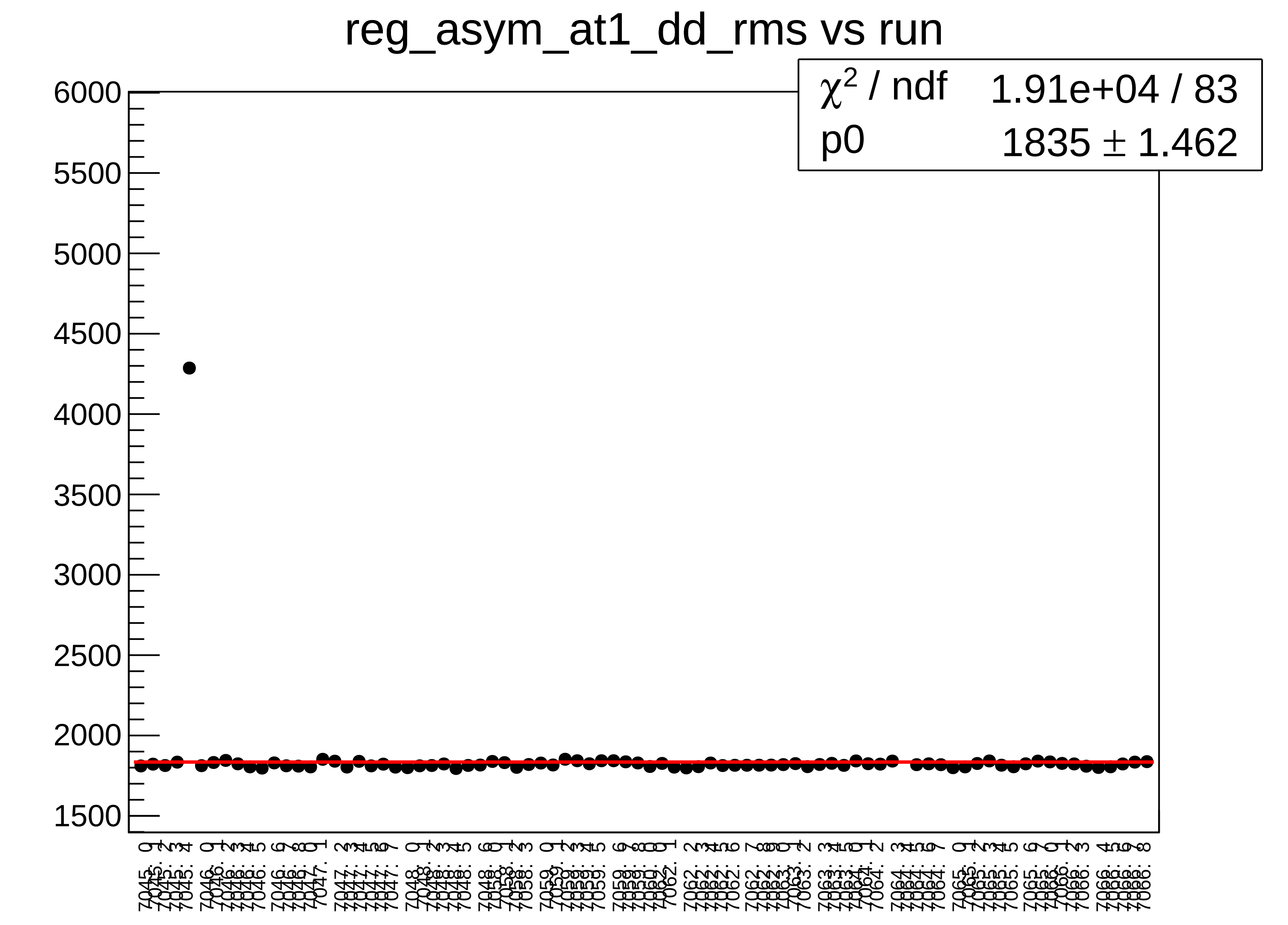
asym_at1_avg_mean vs run
$\times 10^3$
$\chi^2$ / ndf 96.04 / 83
p0 −314.6 ± 2190
pull
Entries 84
Mean −437.7
Std Dev 481.3
pull1D
Entries 84
Mean −0.0152
Std Dev 1.069



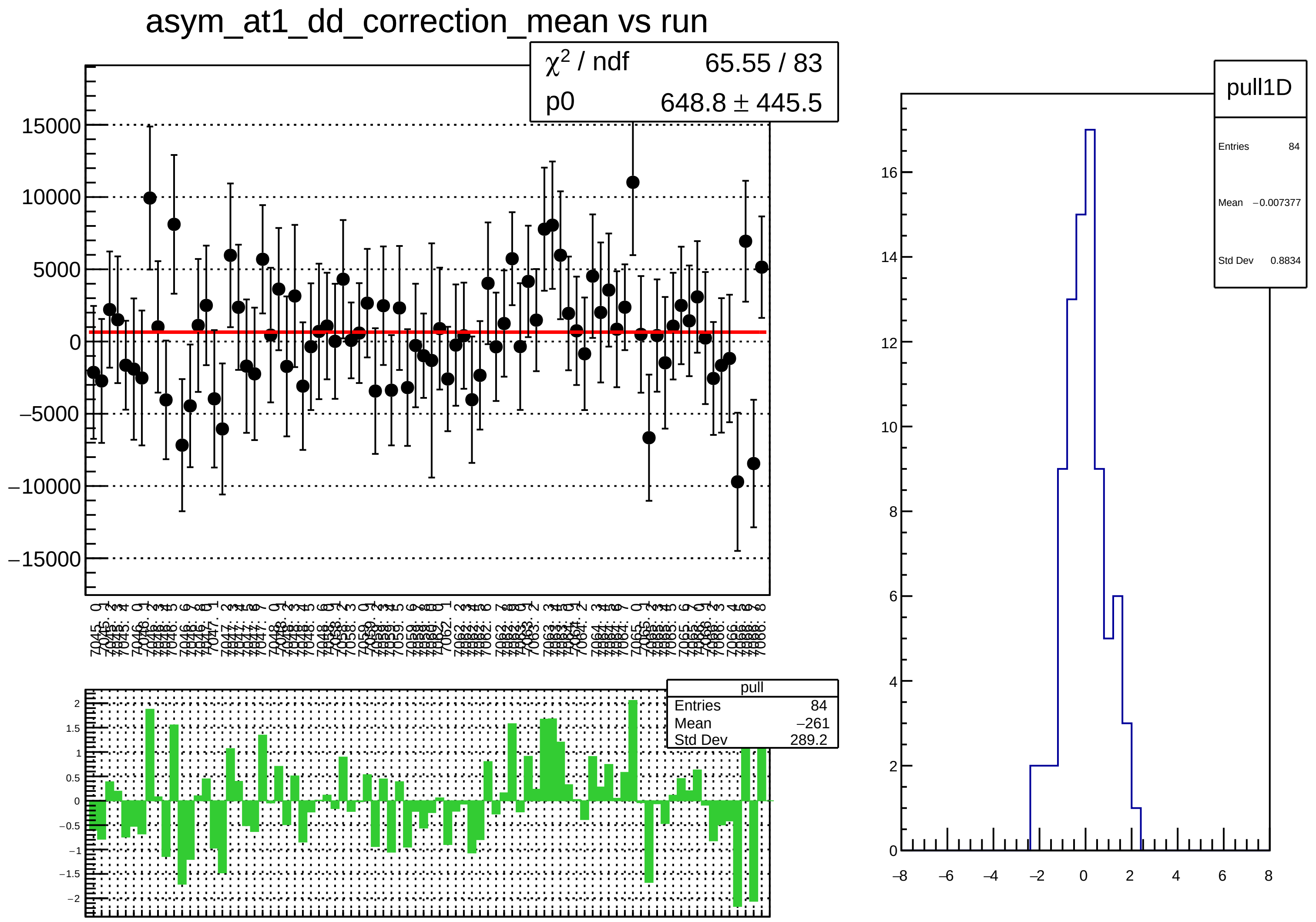
asym_at1_avg_rms vs run
$\chi^2$ / ndf 1.835e+04 / 83
p0 1944 ± 1.549
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500



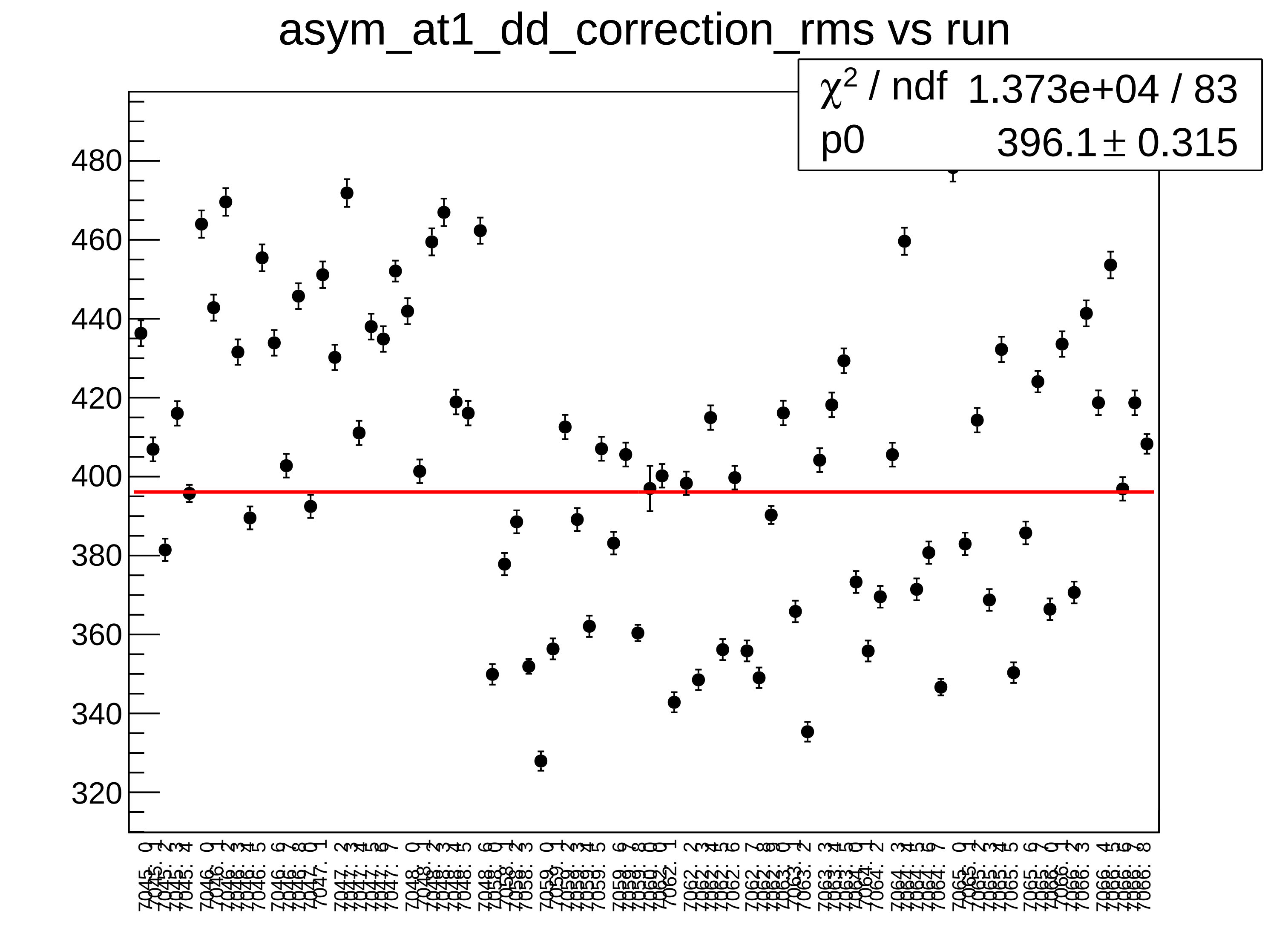
reg_asym_at1_dd_mean vs run
χ2 / ndf 93.96 / 83
p0 2288 ± 2067
×10^3
pull
Entries 84
Mean −94.39
Std Dev 174.7
pull1D
Entries 84
Mean −0.003996
Std Dev 1.058



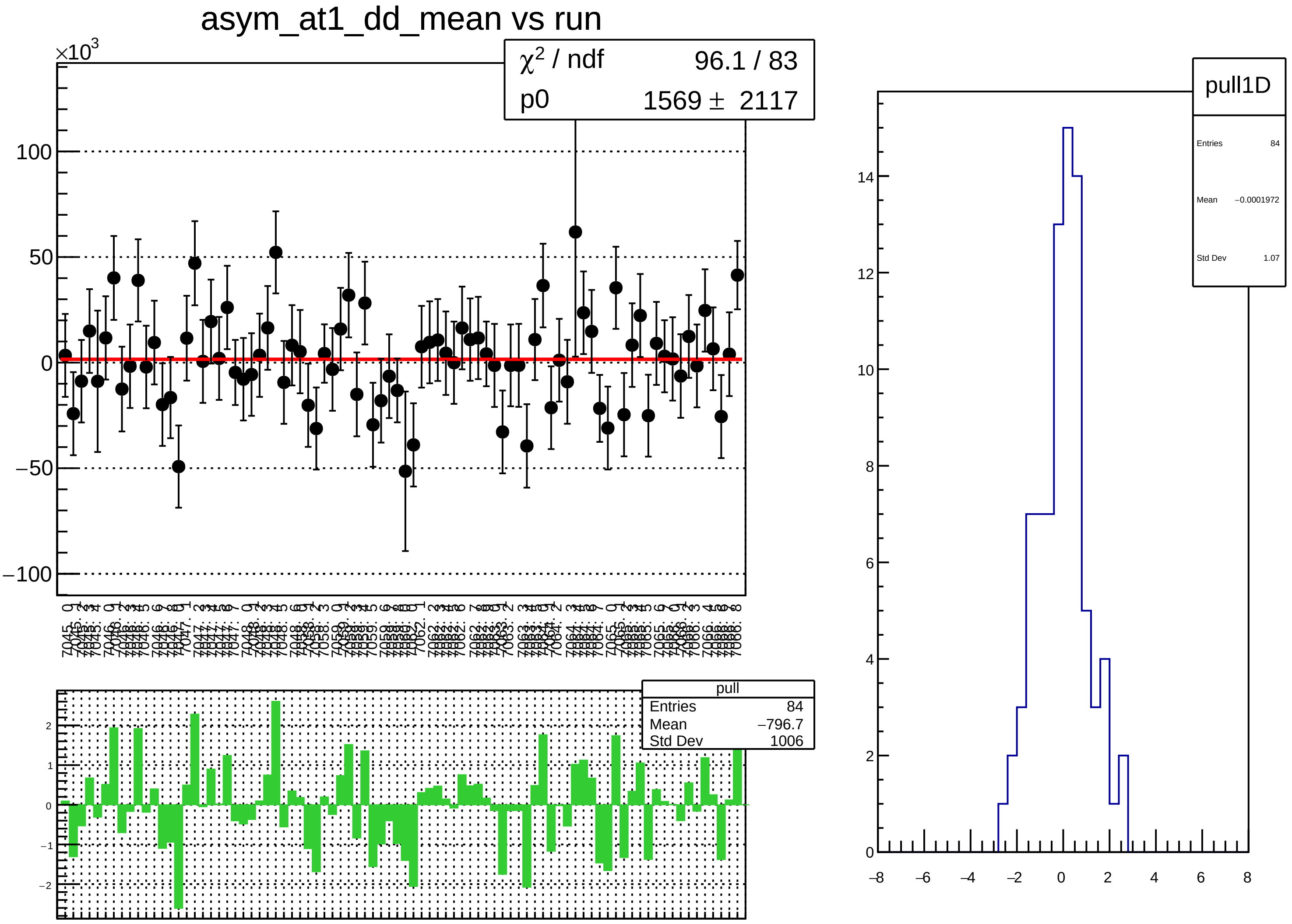
reg_asym_at1_dd_rms vs run
$\chi^2$ / ndf 1.91e+04 / 83
p0 1835 ± 1.462
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

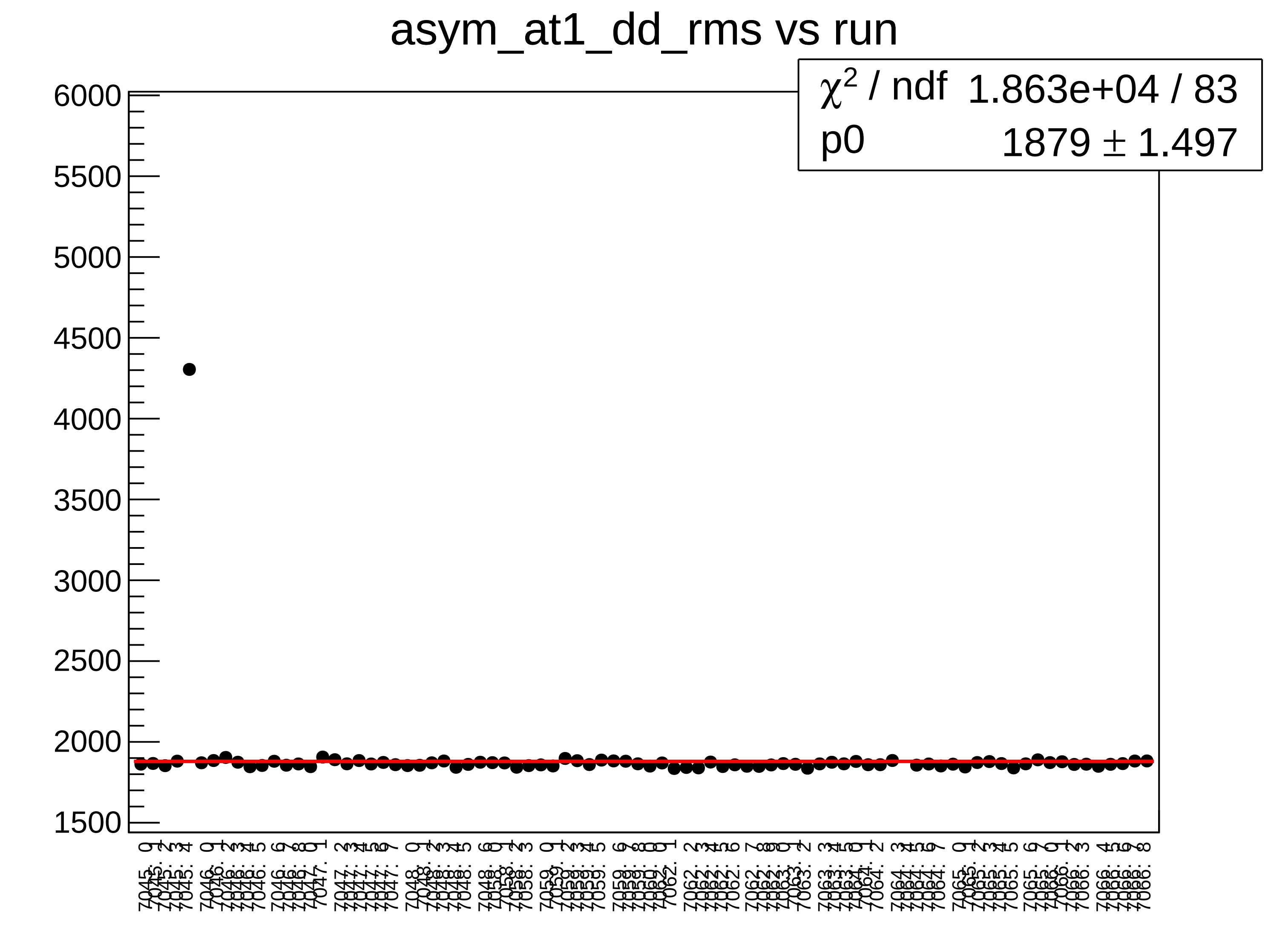


asym_at1_dd_correction_mean vs run
$\chi^2$ / ndf 65.55 / 83
p0 648.8 ± 445.5
pull
Entries 84
Mean −261
Std Dev 289.2
pull1D
Entries 84
Mean −0.007377
Std Dev 0.8834

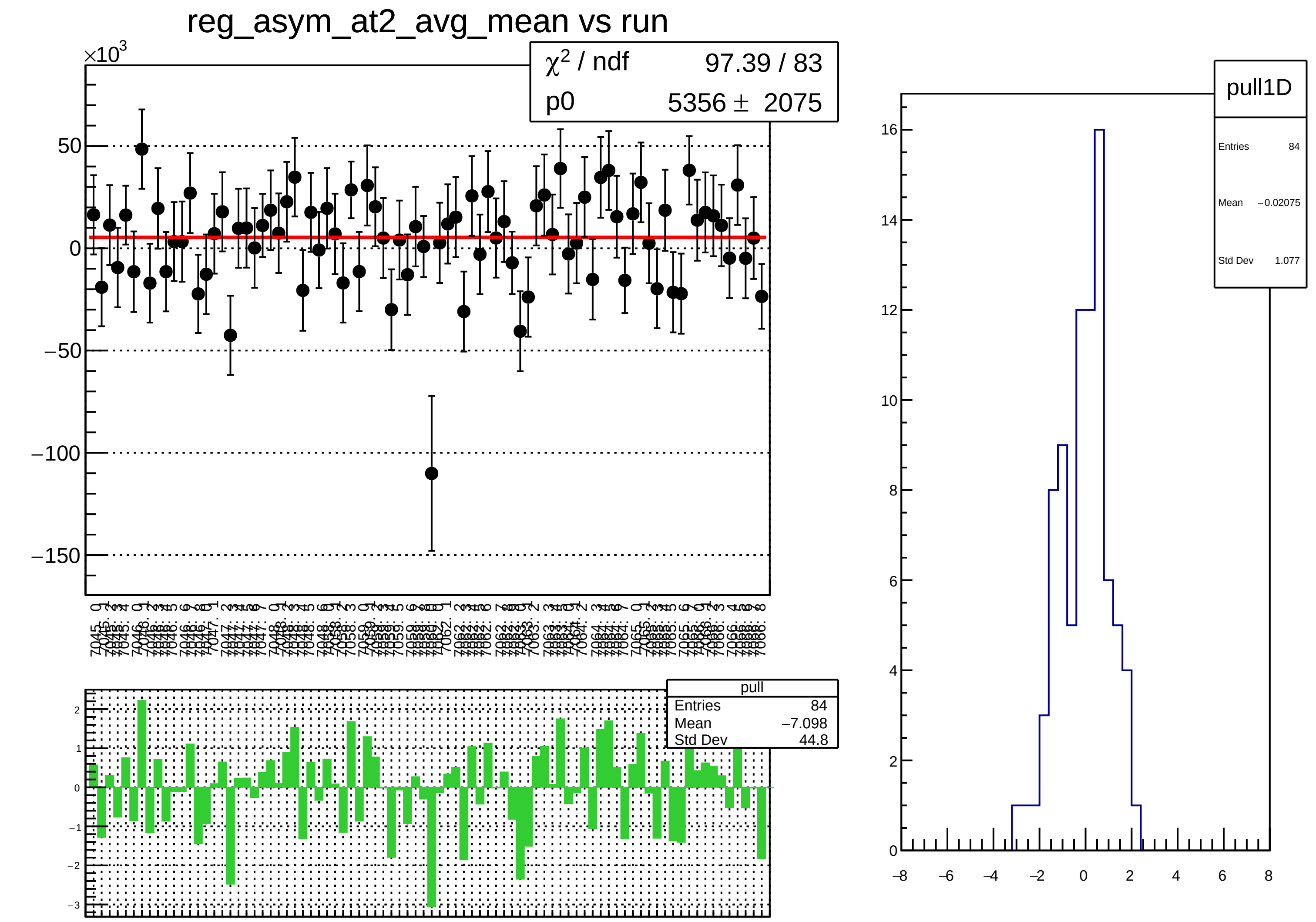


asym_at1_dd_correction_rms vs run
$\chi^2$ / ndf 1.373e+04 / 83
p0 396.1 ± 0.315

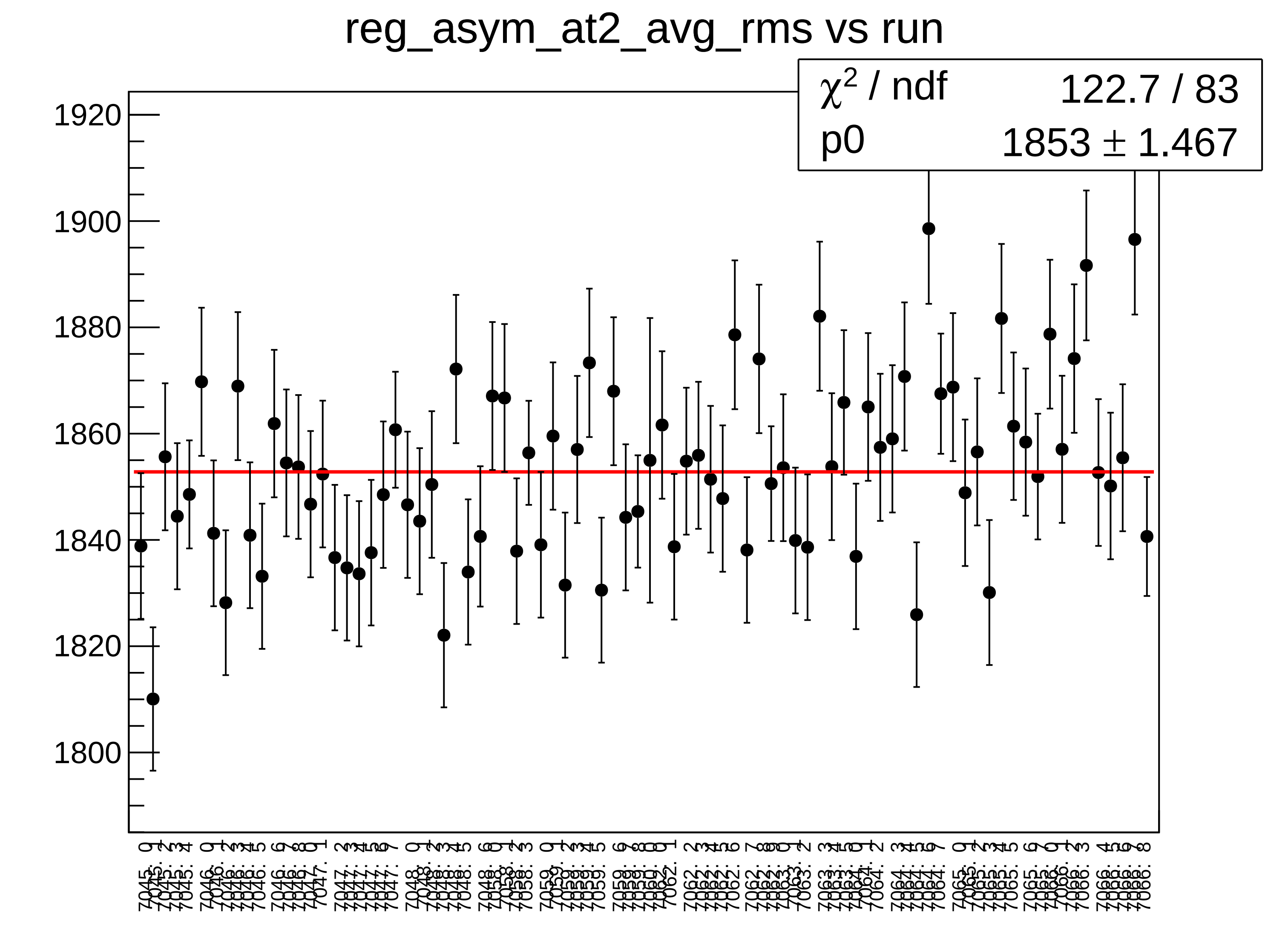

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 96.1 / 83
p0 1569 ± 2117
pull
Entries 84
Mean −796.7
Std Dev 1006
pull1D
Entries 84
Mean −0.0001972
Std Dev 1.07

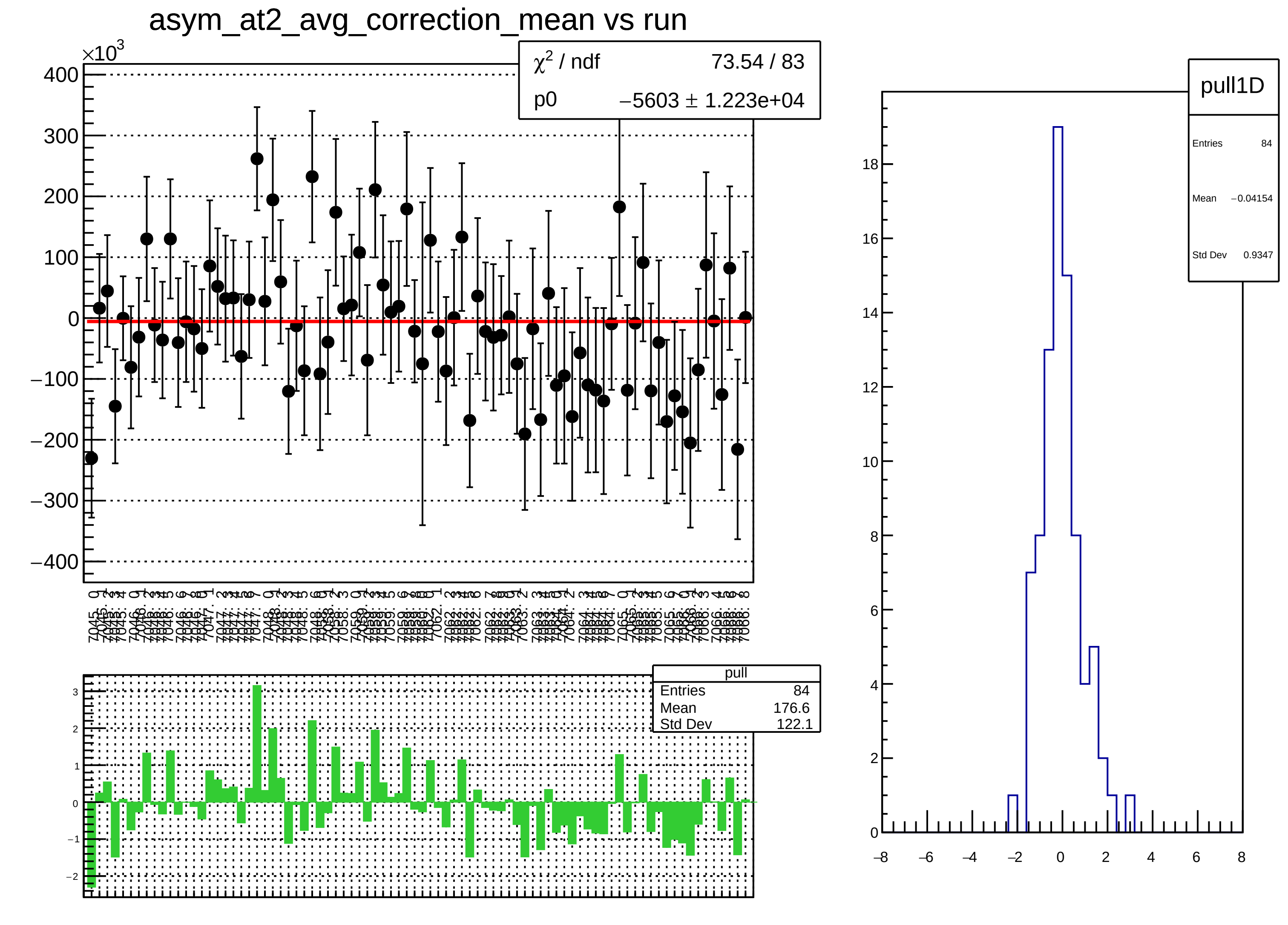


asym_at1_dd_rms vs run
$\chi^2$ / ndf 1.863e+04 / 83
p0 1879 ± 1.497
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

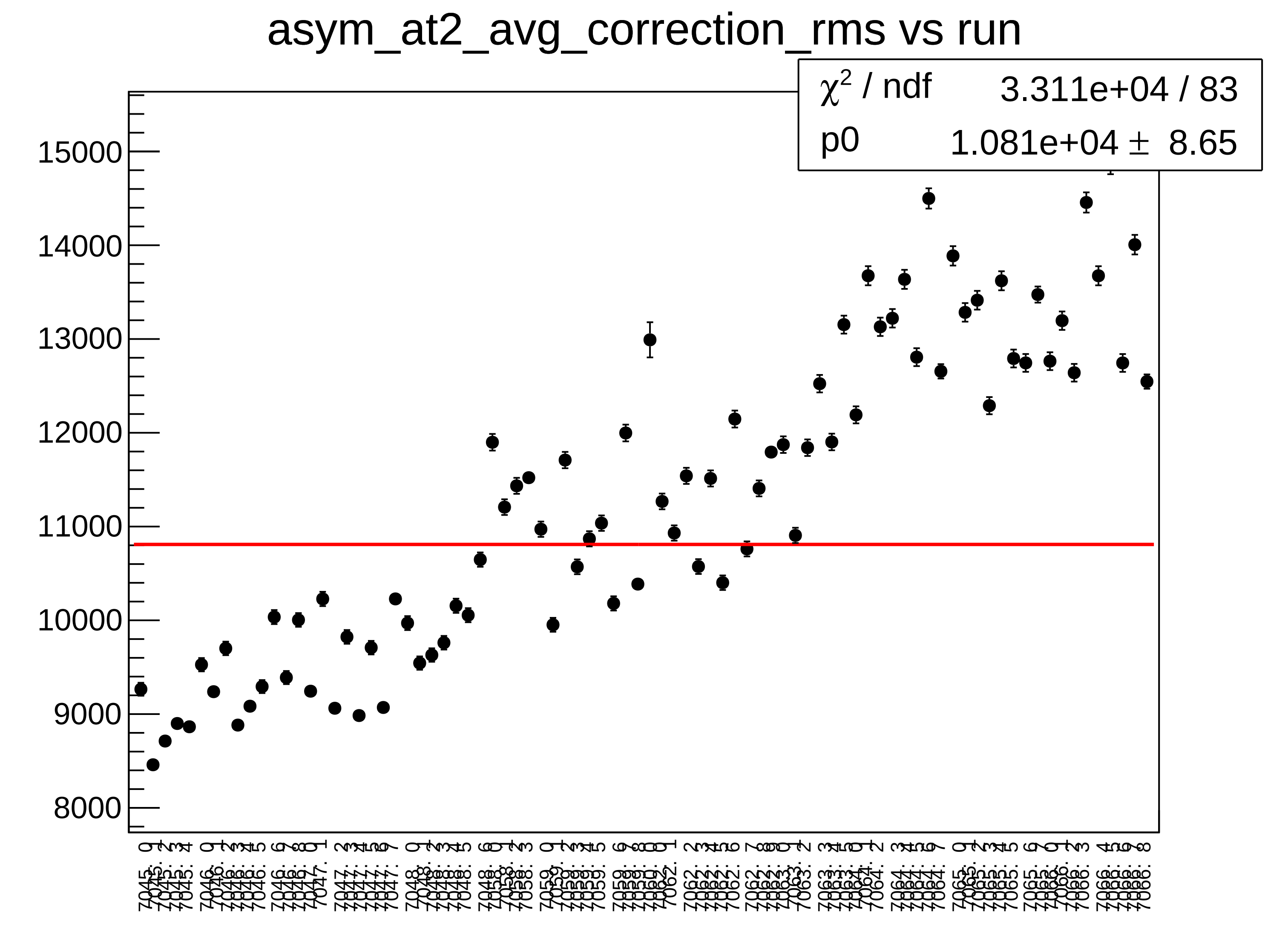


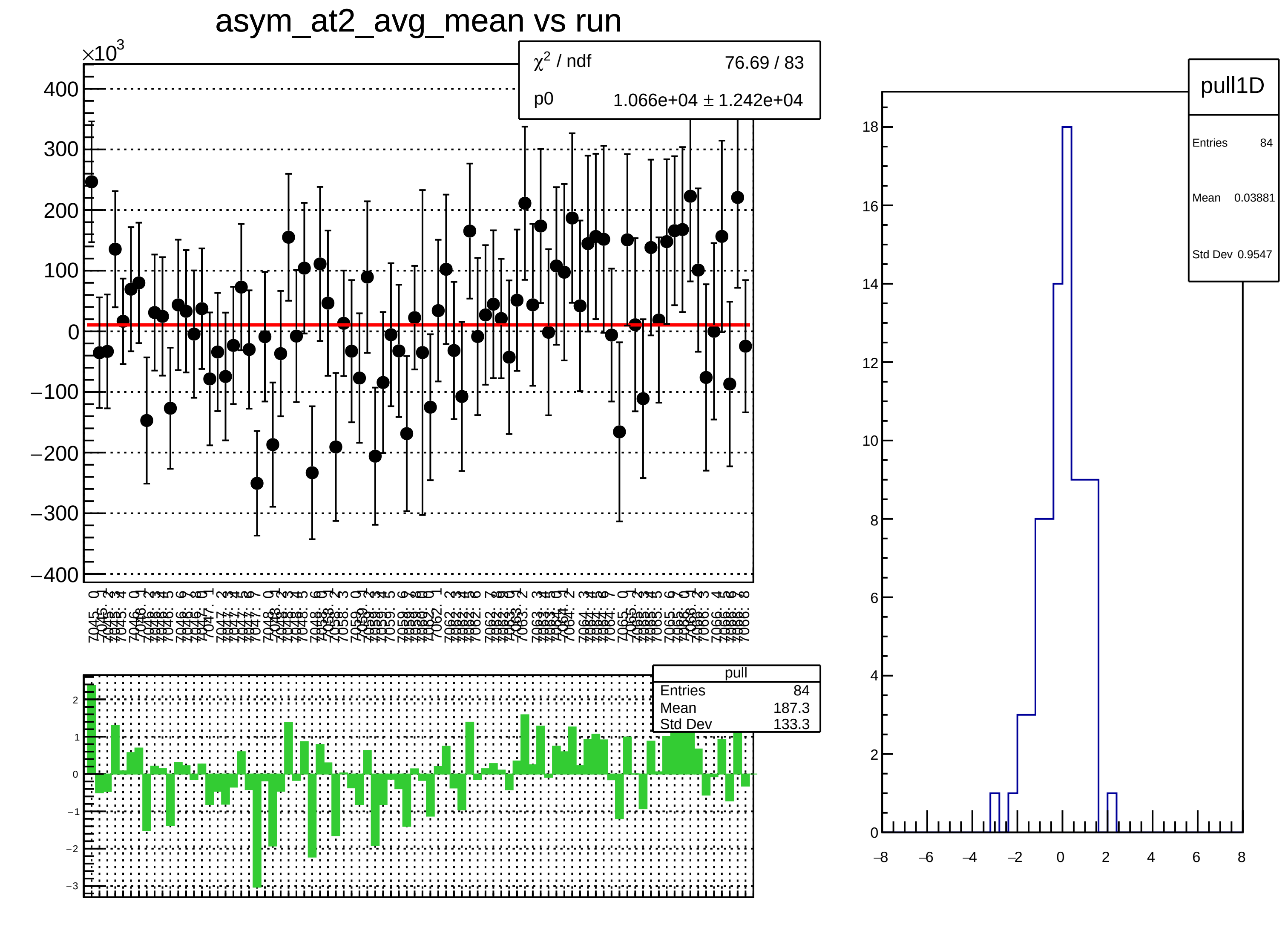
reg_asym_at2_avg_mean vs run
×10^3
χ2 / ndf 97.39 / 83
p0 5356 ± 2075
pull
Entries 84
Mean −7.098
Std Dev 44.8
pull1D
Entries 84
Mean −0.02075
Std Dev 1.077

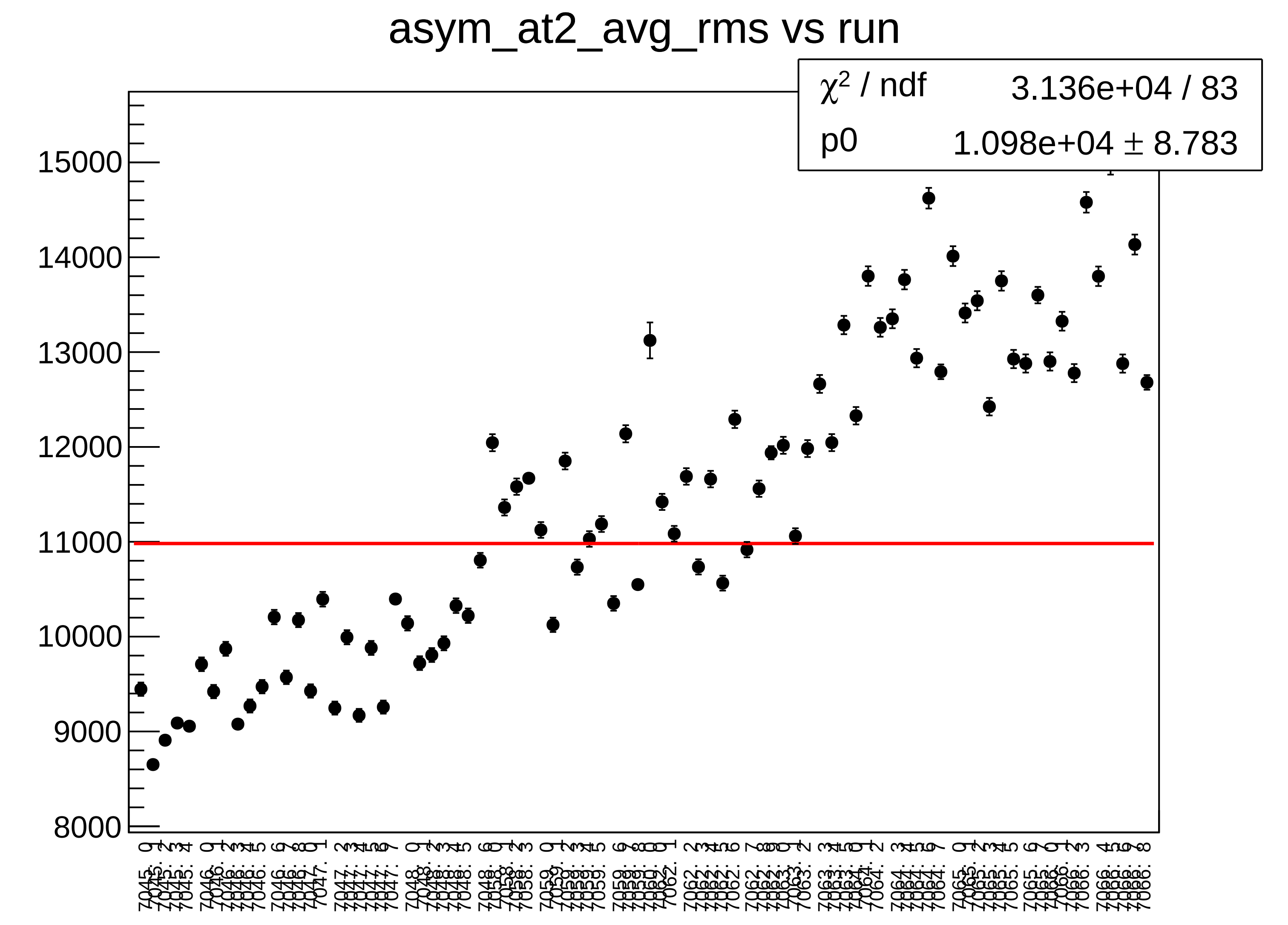

reg_asym_at2_avg_rms vs run
χ2 / ndf 122.7 / 83
p0 1853 ± 1.467
1920
1900
1880
1860
1840
1820
1800



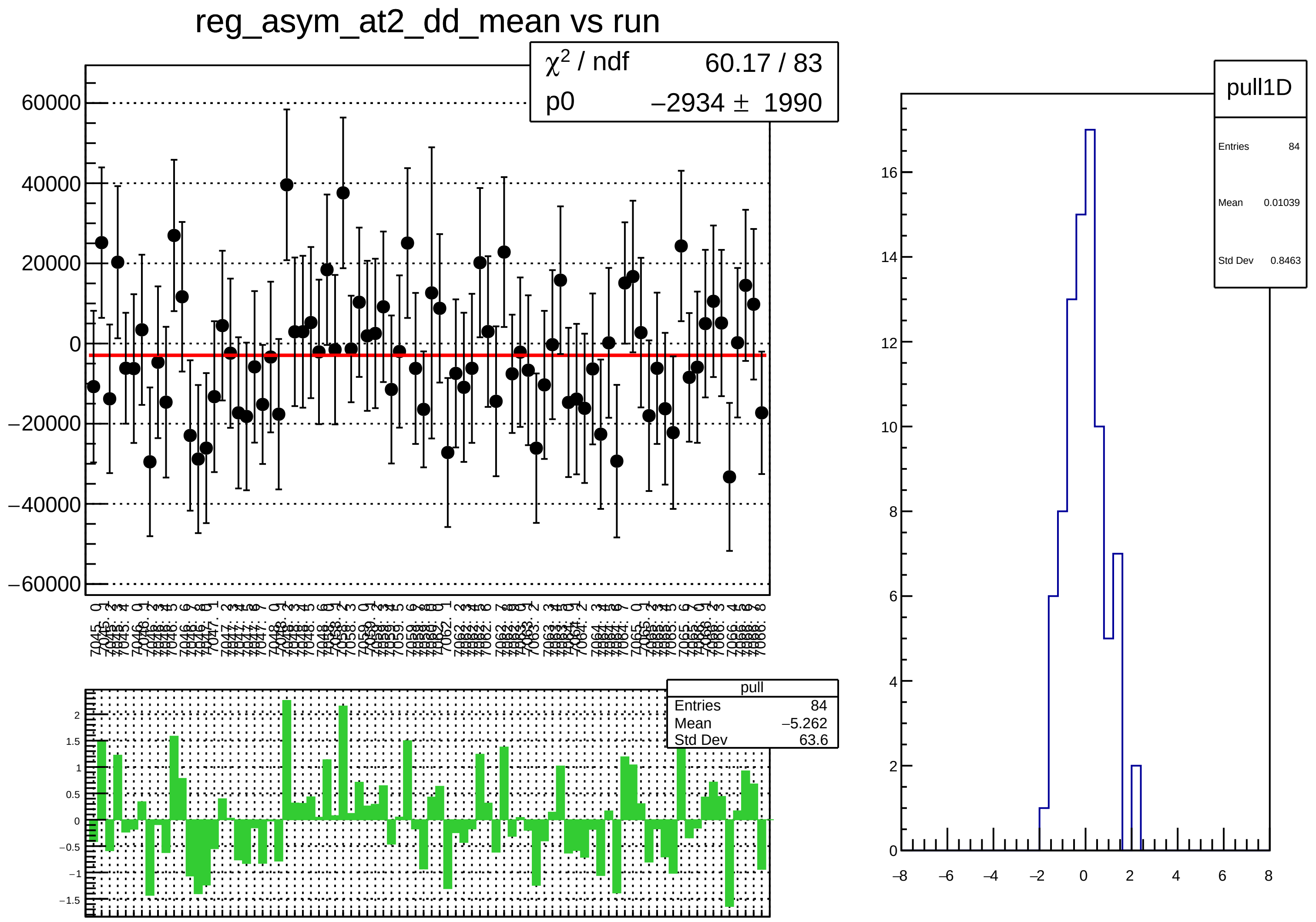
asym_at2_avg_correction_mean vs run
$\chi^2$ / ndf 73.54 / 83
p0 −5603 ± 1.223e+04
×10³
pull
Entries 84
Mean 176.6
Std Dev 122.1
pull1D
Entries 84
Mean −0.04154
Std Dev 0.9347


asym_at2_avg_correction_rms vs run
$\chi^2$ / ndf 3.311e+04 / 83
p0 1.081e+04 ± 8.65
15000
14000
13000
12000
11000
10000
9000
8000

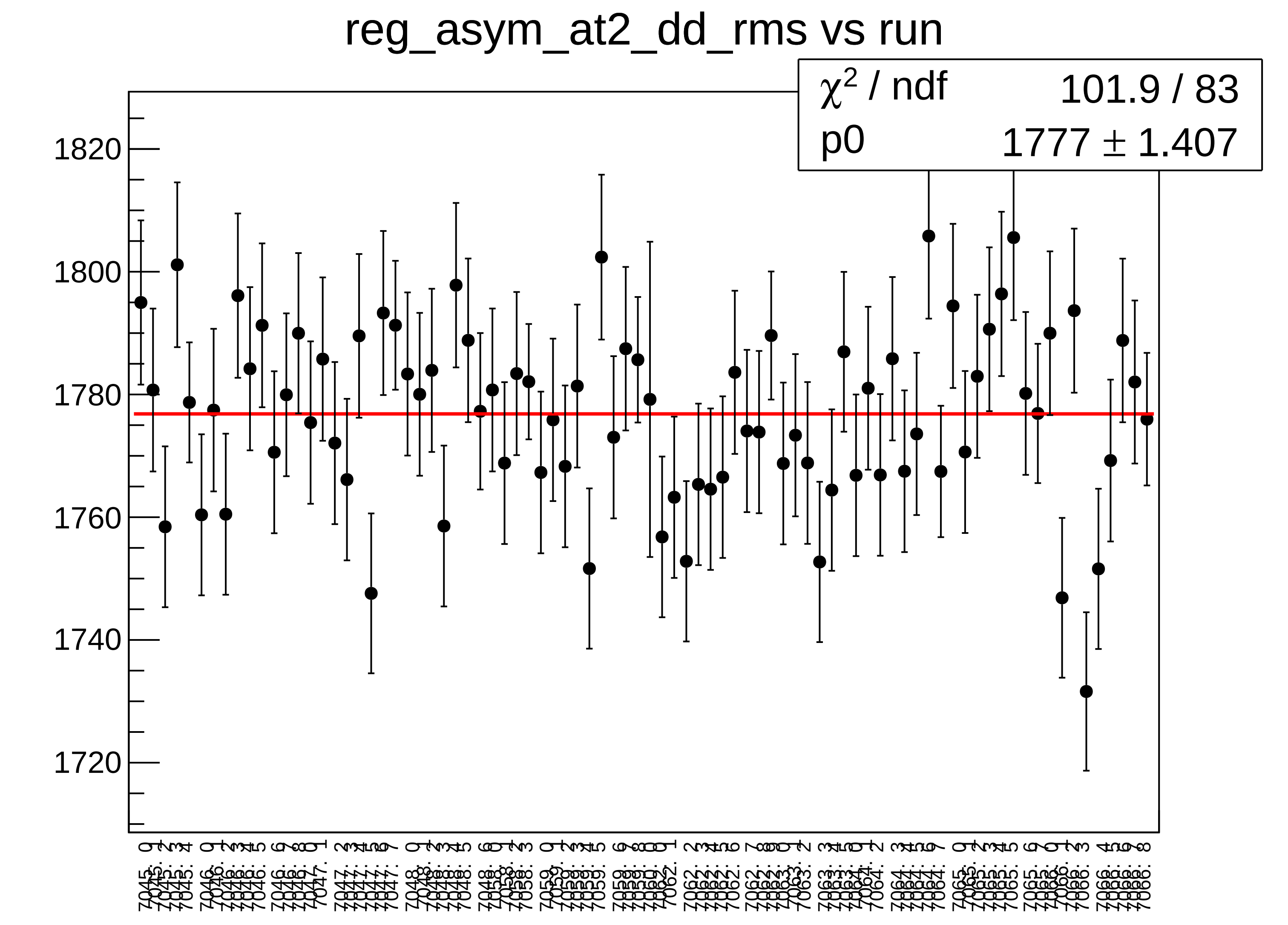

asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 76.69 / 83
p0 1.066e+04 ± 1.242e+04
pull
Entries 84
Mean 187.3
Std Dev 133.3
pull1D
Entries 84
Mean 0.03881
Std Dev 0.9547



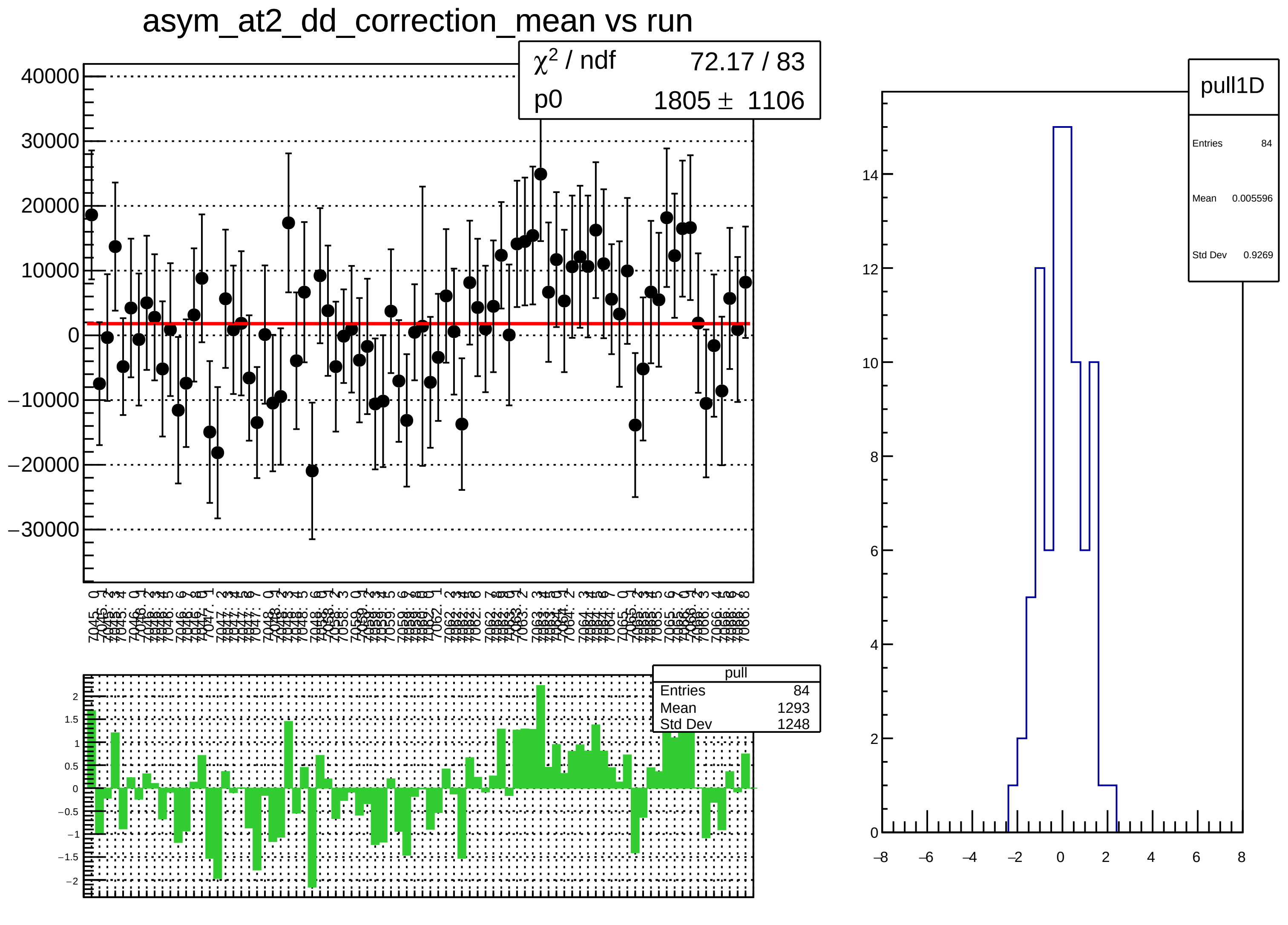
asym_at2_avg_rms vs run
$\chi^2$ / ndf 3.136e+04 / 83
p0 1.098e+04 ± 8.783
15000
14000
13000
12000
11000
10000
9000
8000



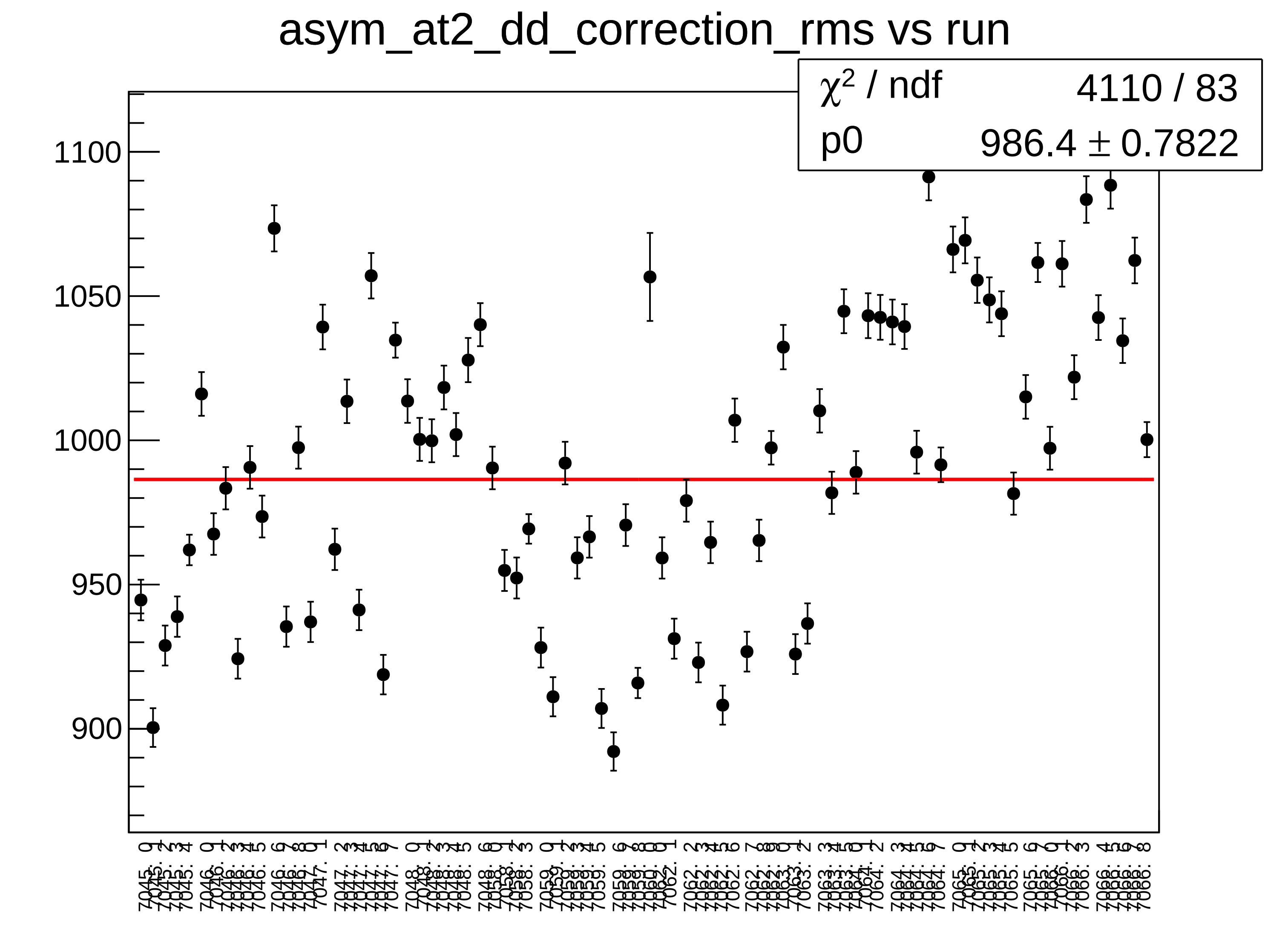
reg_asym_at2_dd_mean vs run
$\chi^2$ / ndf 60.17 / 83
p0 −2934 ± 1990
pull
Entries 84
Mean −5.262
Std Dev 63.6
pull1D
Entries 84
Mean 0.01039
Std Dev 0.8463



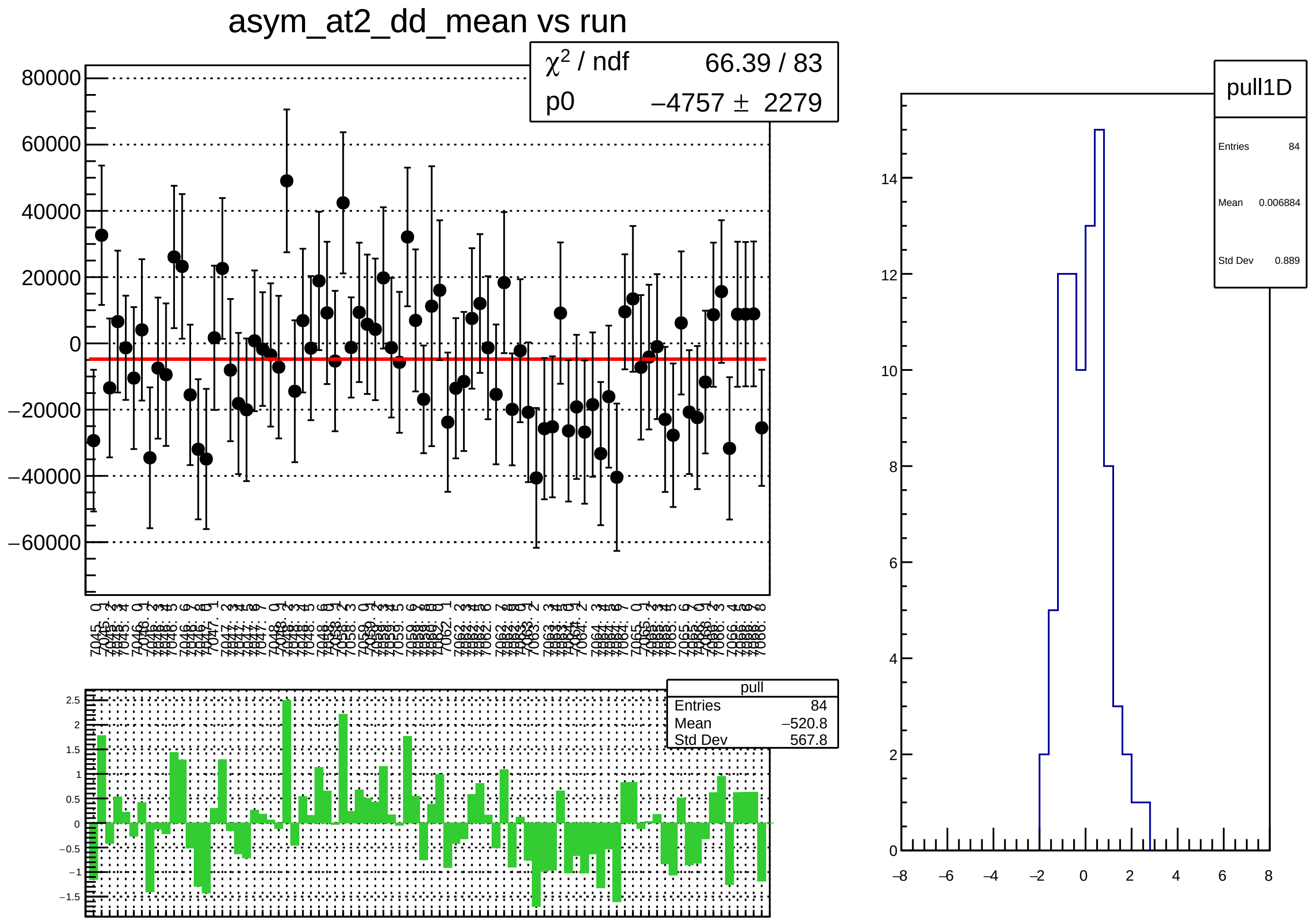
reg_asym_at2_dd_rms vs run
χ2 / ndf 101.9 / 83
p0 1777 ± 1.407
1820
1800
1780
1760
1740
1720



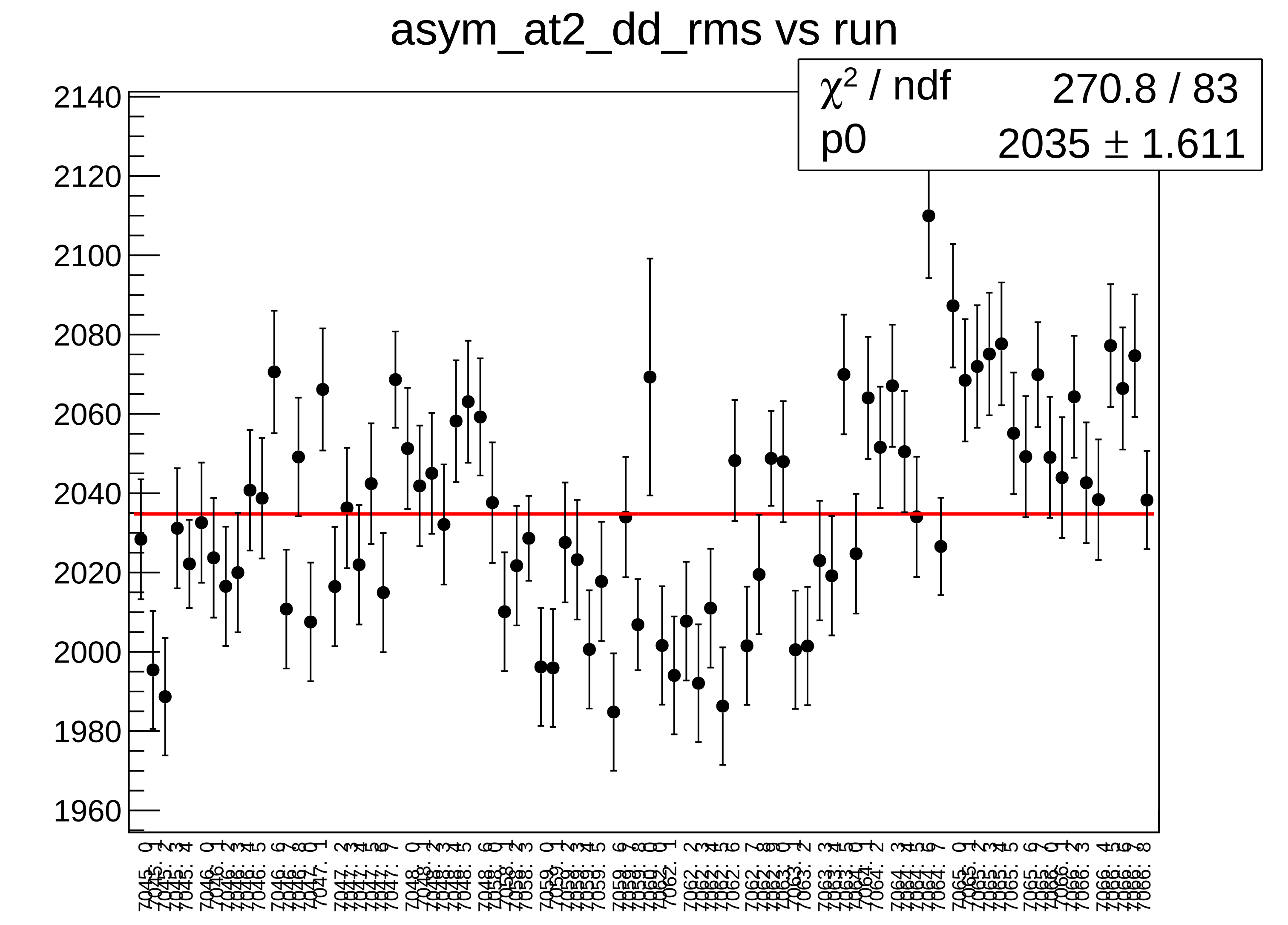
asym_at2_dd_correction_mean vs run
$\chi^2$ / ndf 72.17 / 83
p0 1805 ± 1106
pull
Entries 84
Mean 1293
Std Dev 1248
pull1D
Entries 84
Mean 0.005596
Std Dev 0.9269

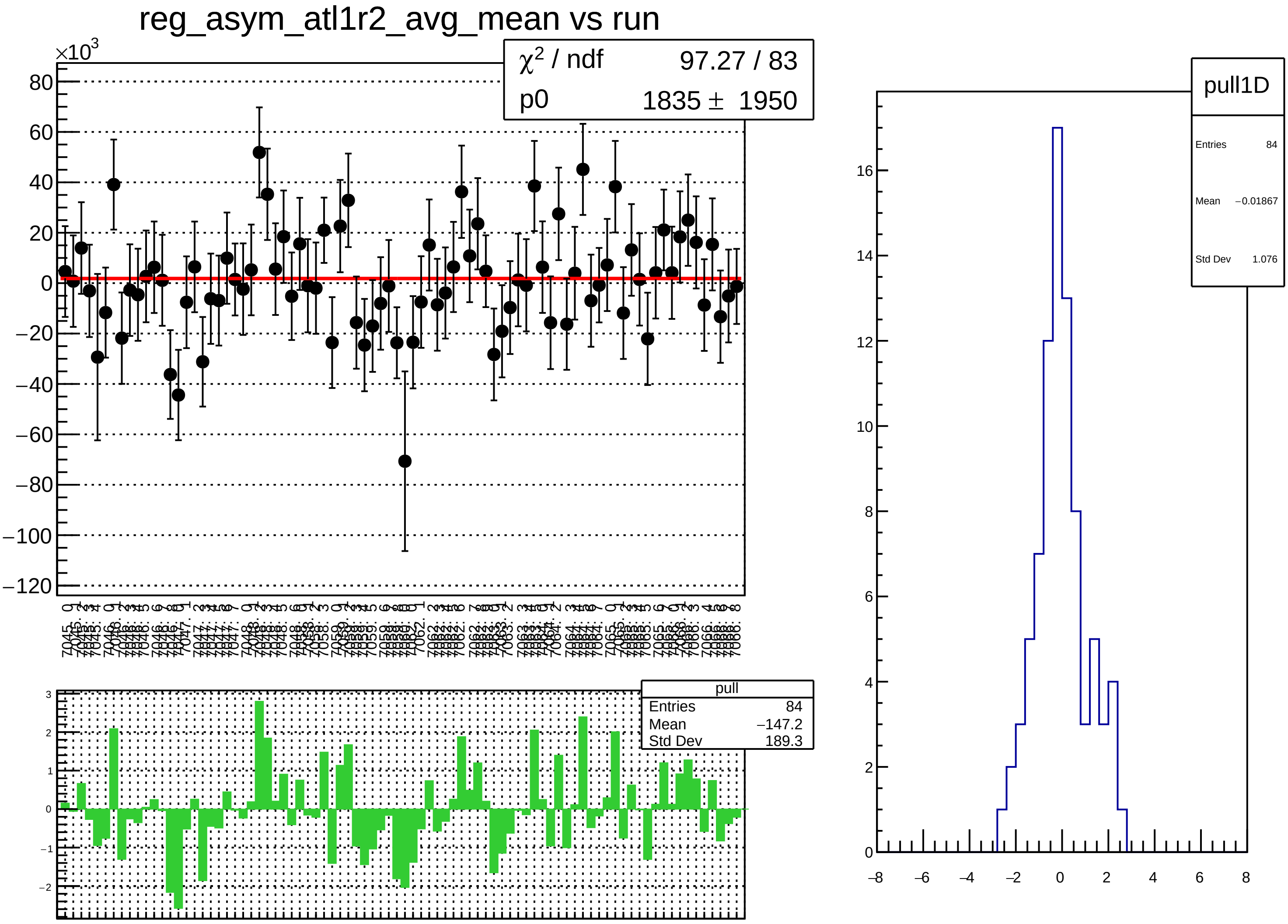


asym_at2_dd_correction_rms vs run
$\chi^2$ / ndf 4110 / 83
p0 986.4 ± 0.7822
1100
1050
1000
950
900

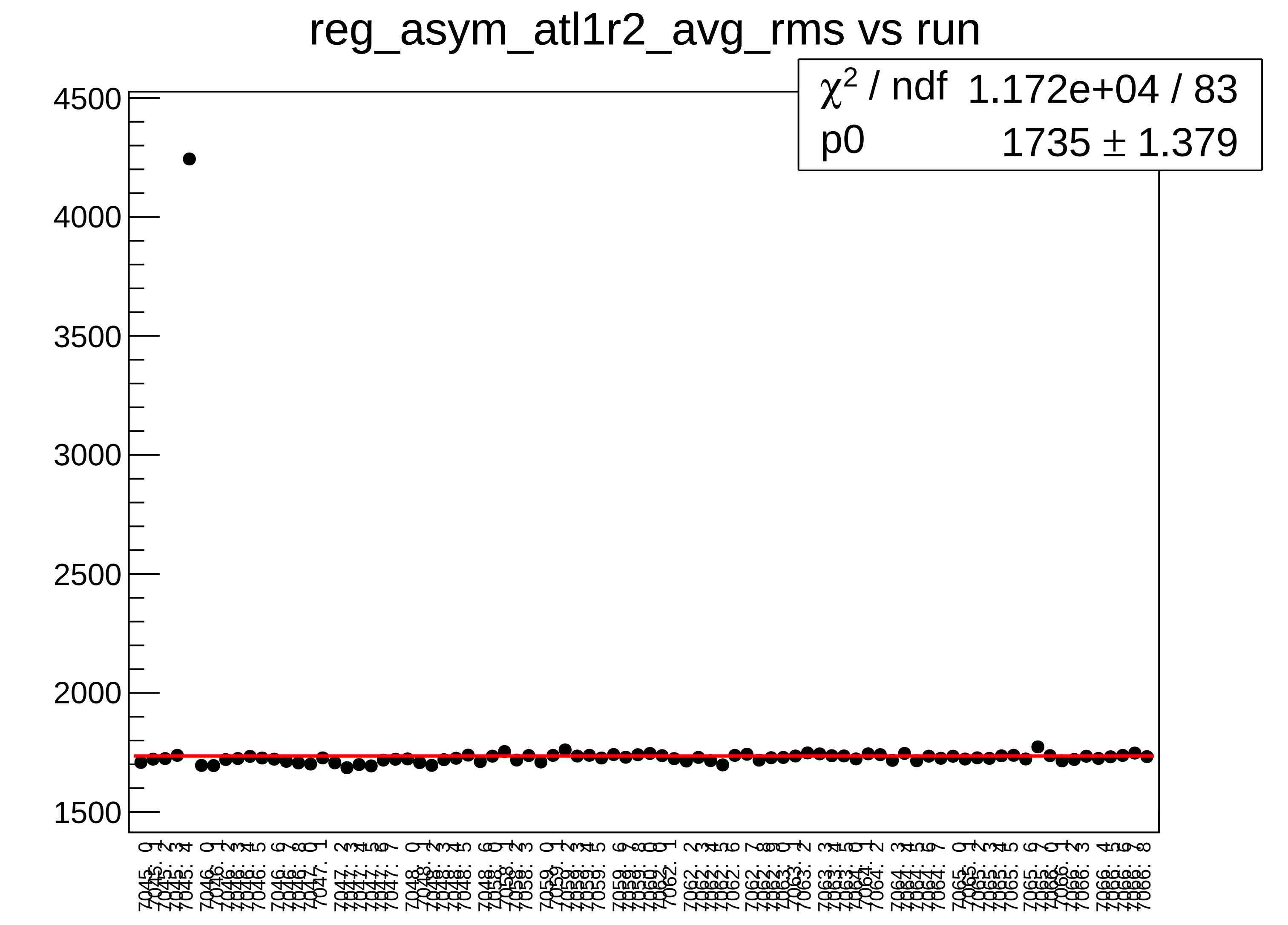


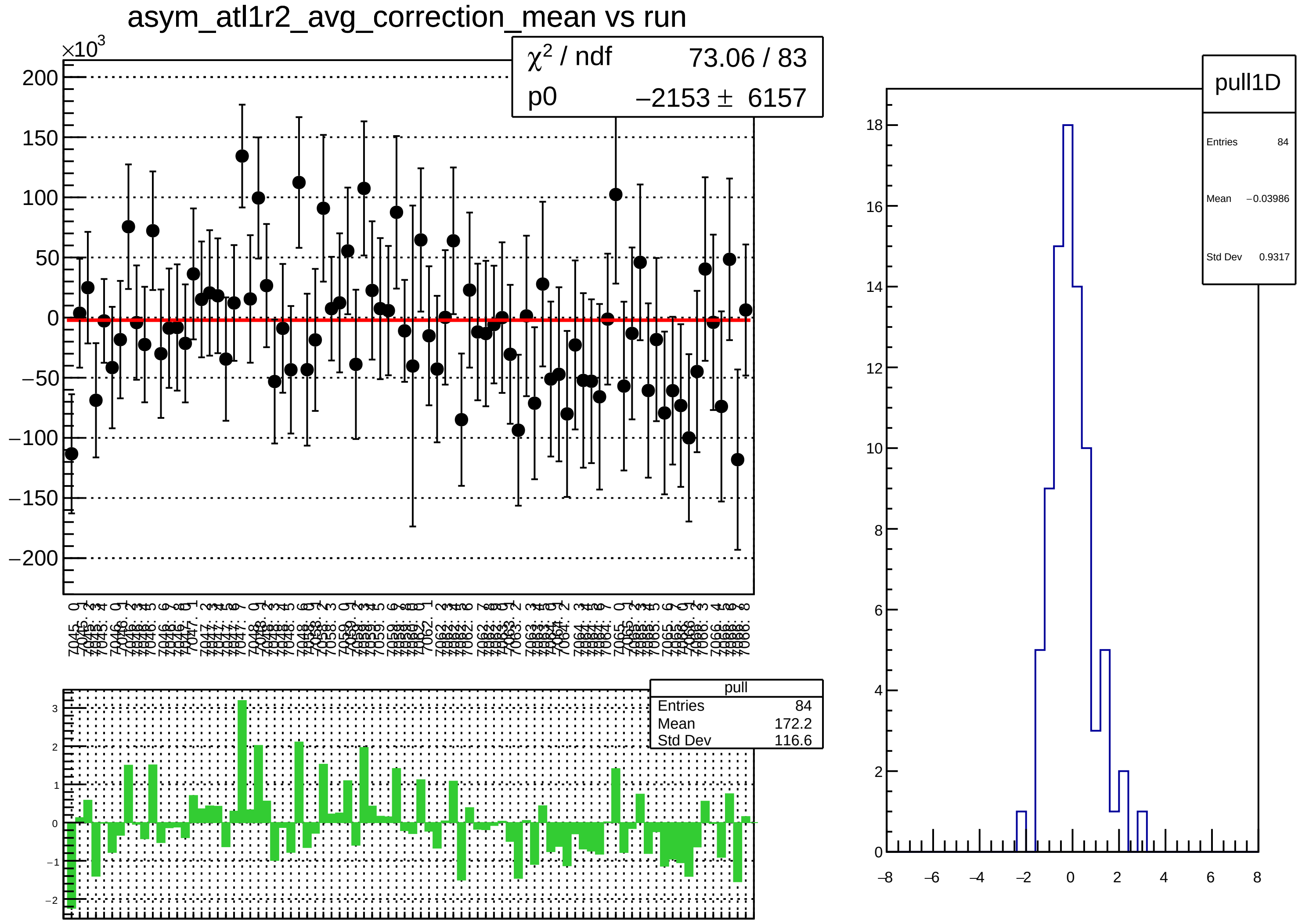
asym_at2_dd_mean vs run
χ2 / ndf 66.39 / 83
p0 −4757 ± 2279
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −520.8
Std Dev 567.8
pull1D
Entries 84
Mean 0.006884
Std Dev 0.889


asym_at2_dd_rms vs run
χ2 / ndf 270.8 / 83
p0 2035 ± 1.611
2140
2120
2100
2080
2060
2040
2020
2000
1980
1960

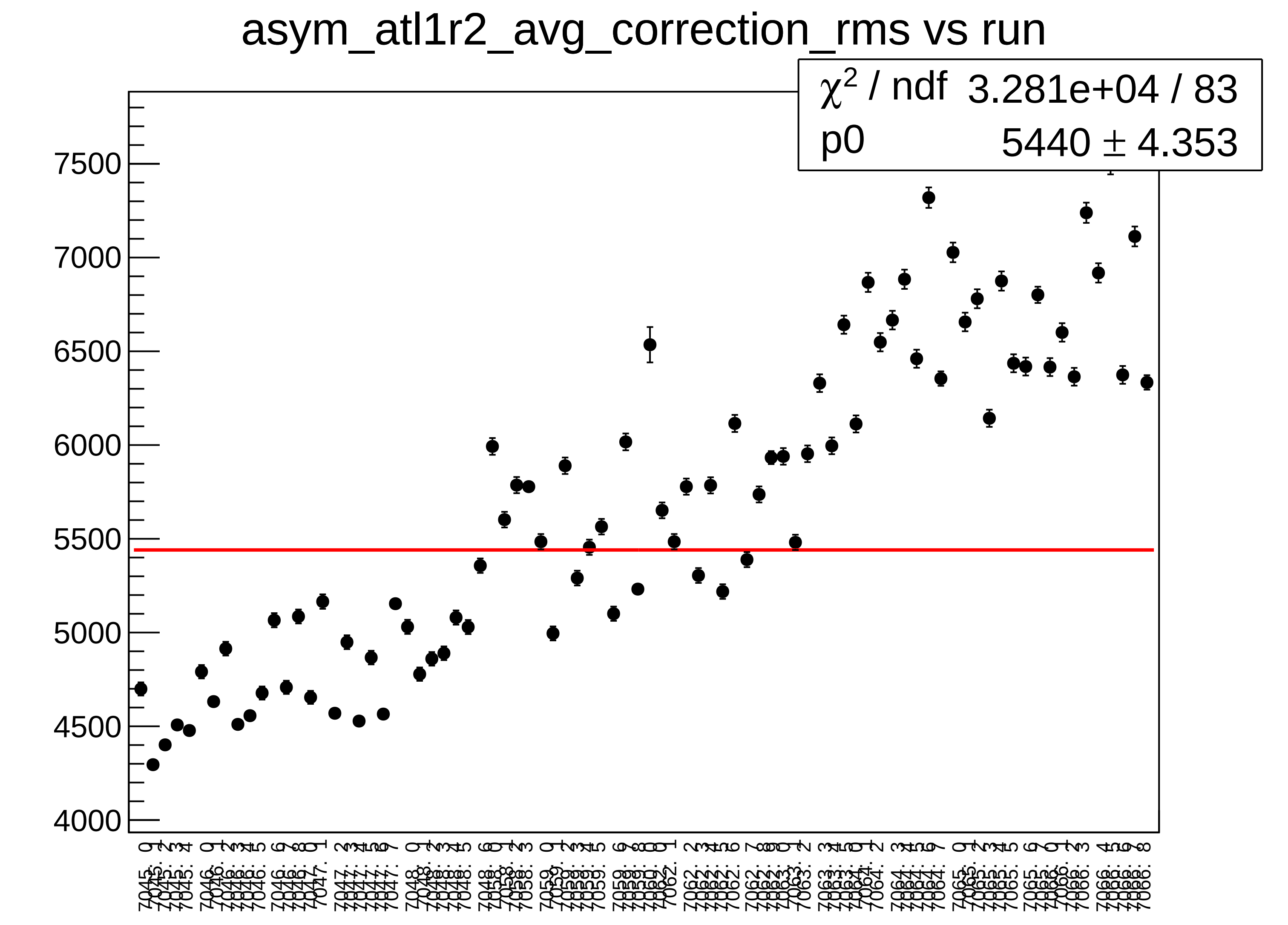


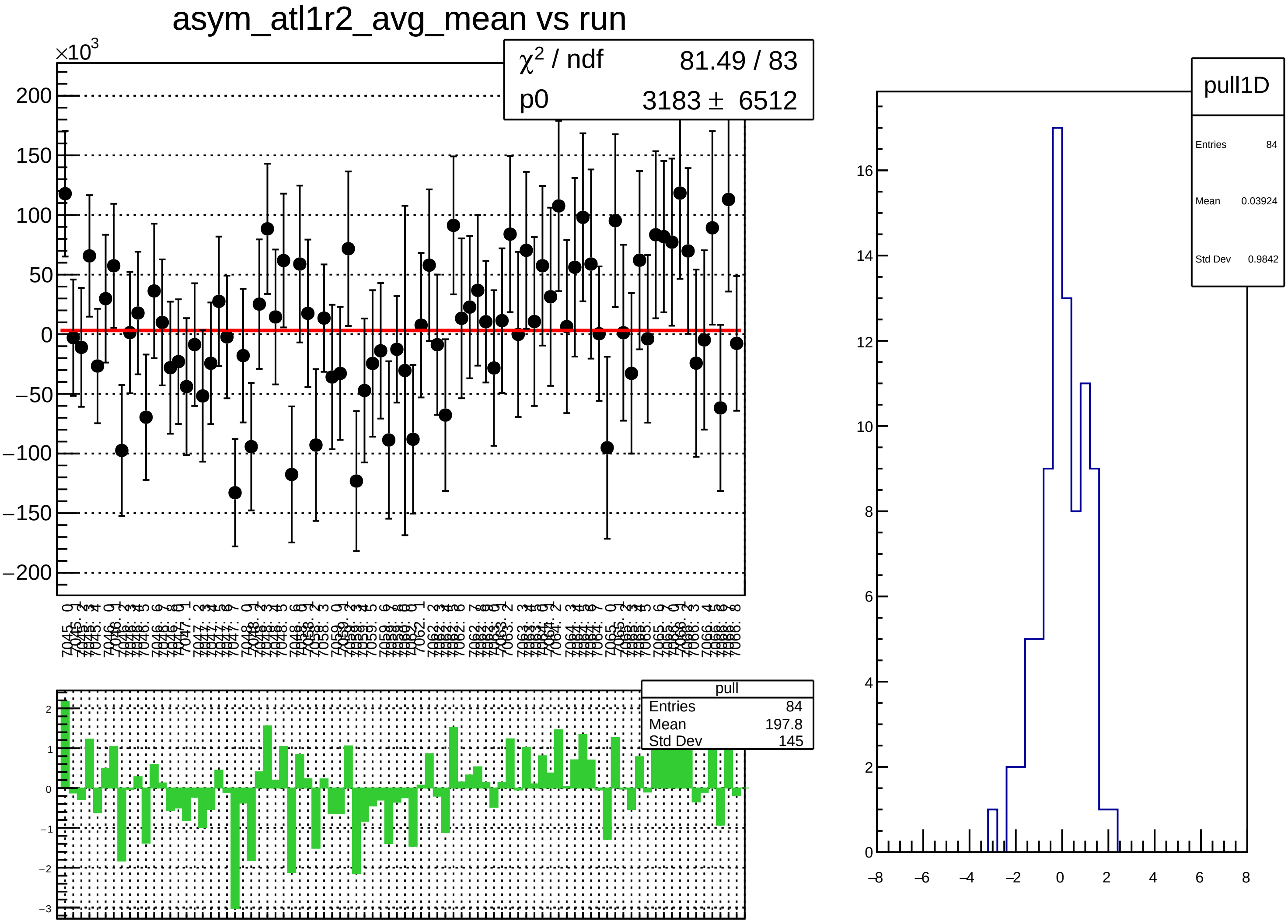
reg_asym_atl1r2_avg_mean vs run
χ2 / ndf 97.27 / 83
p0 1835 ± 1950
pull
Entries 84
Mean −147.2
Std Dev 189.3
pull1D
Entries 84
Mean −0.01867
Std Dev 1.076

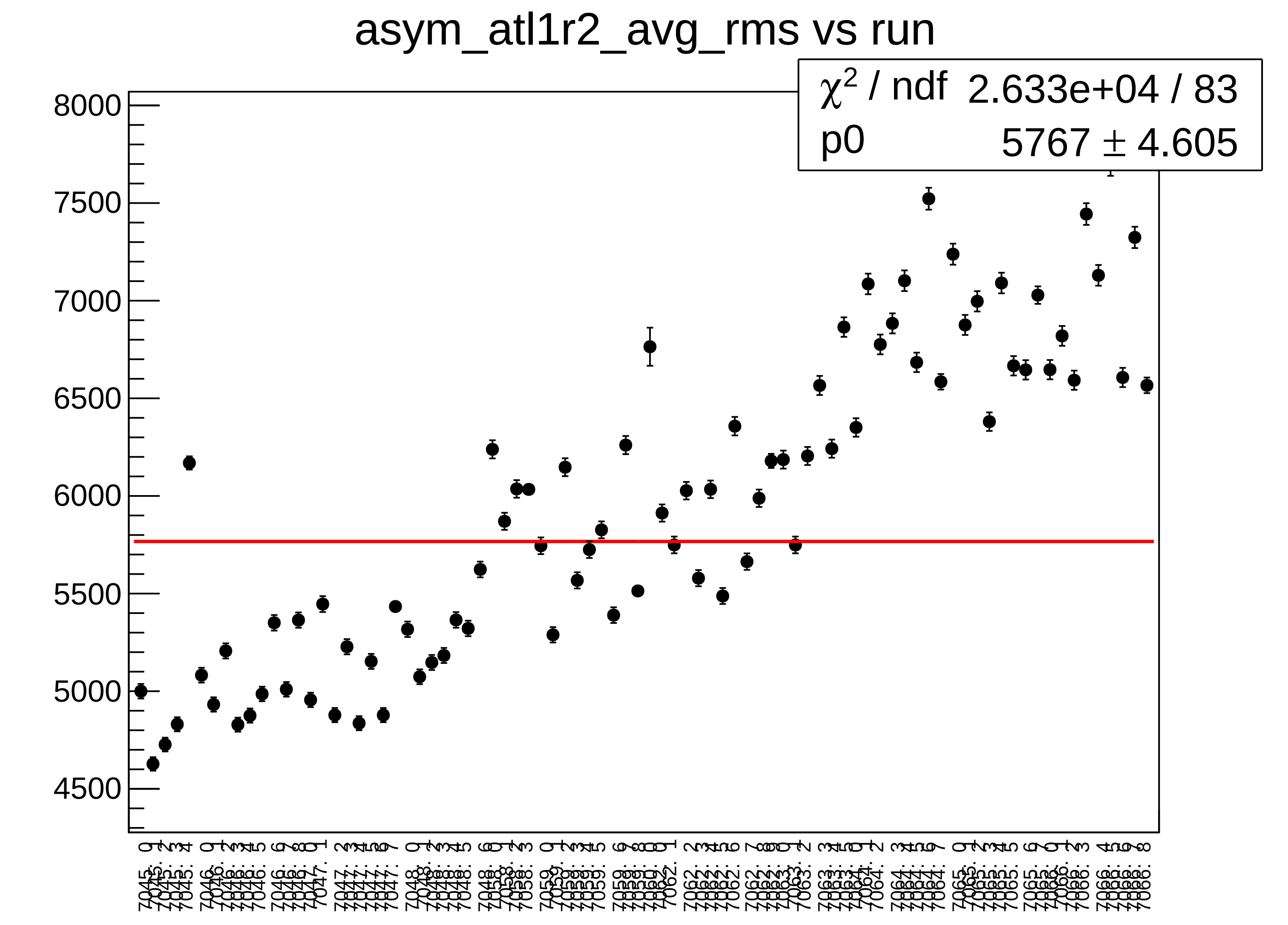

reg_asym_atl1r2_avg_rms vs run
χ2 / ndf 1.172e+04 / 83
p0 1735 ± 1.379
4500
4000
3500
3000
2500
2000
1500



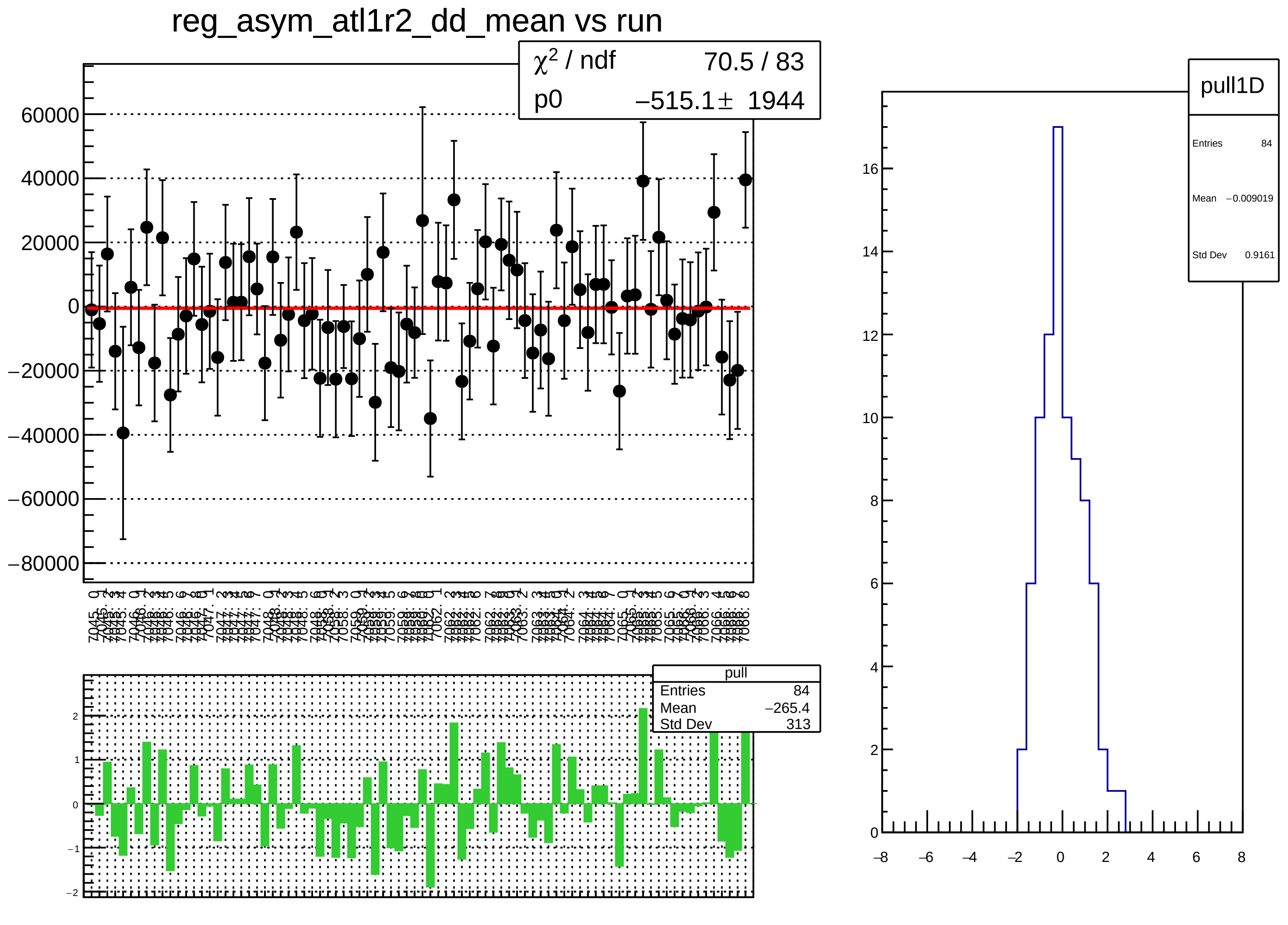
asym_atl1r2_avg_correction_mean vs run
×10^3
χ^2 / ndf 73.06 / 83
p0 −2153 ± 6157
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 172.2
Std Dev 116.6
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.03986
Std Dev 0.9317
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_correction_rms vs run
$\chi^2$ / ndf 3.281e+04 / 83
p0 5440 ± 4.353
7500
7000
6500
6000
5500
5000
4500
4000

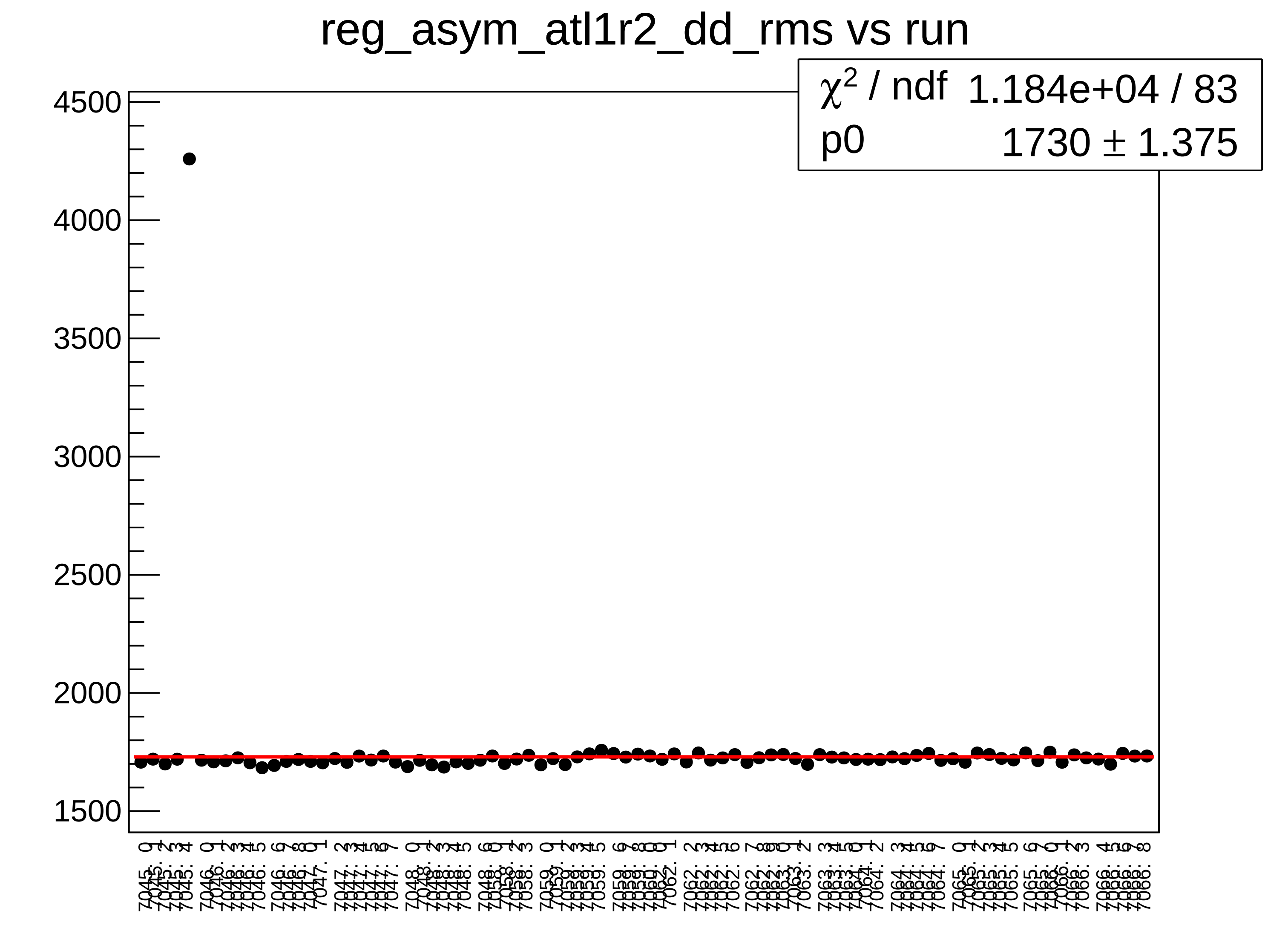

asym_atl1r2_avg_mean vs run
$\times10^3$
$\chi^2$ / ndf 81.49 / 83
p0 3183 ± 6512
pull
Entries 84
Mean 197.8
Std Dev 145
pull1D
Entries 84
Mean 0.03924
Std Dev 0.9842

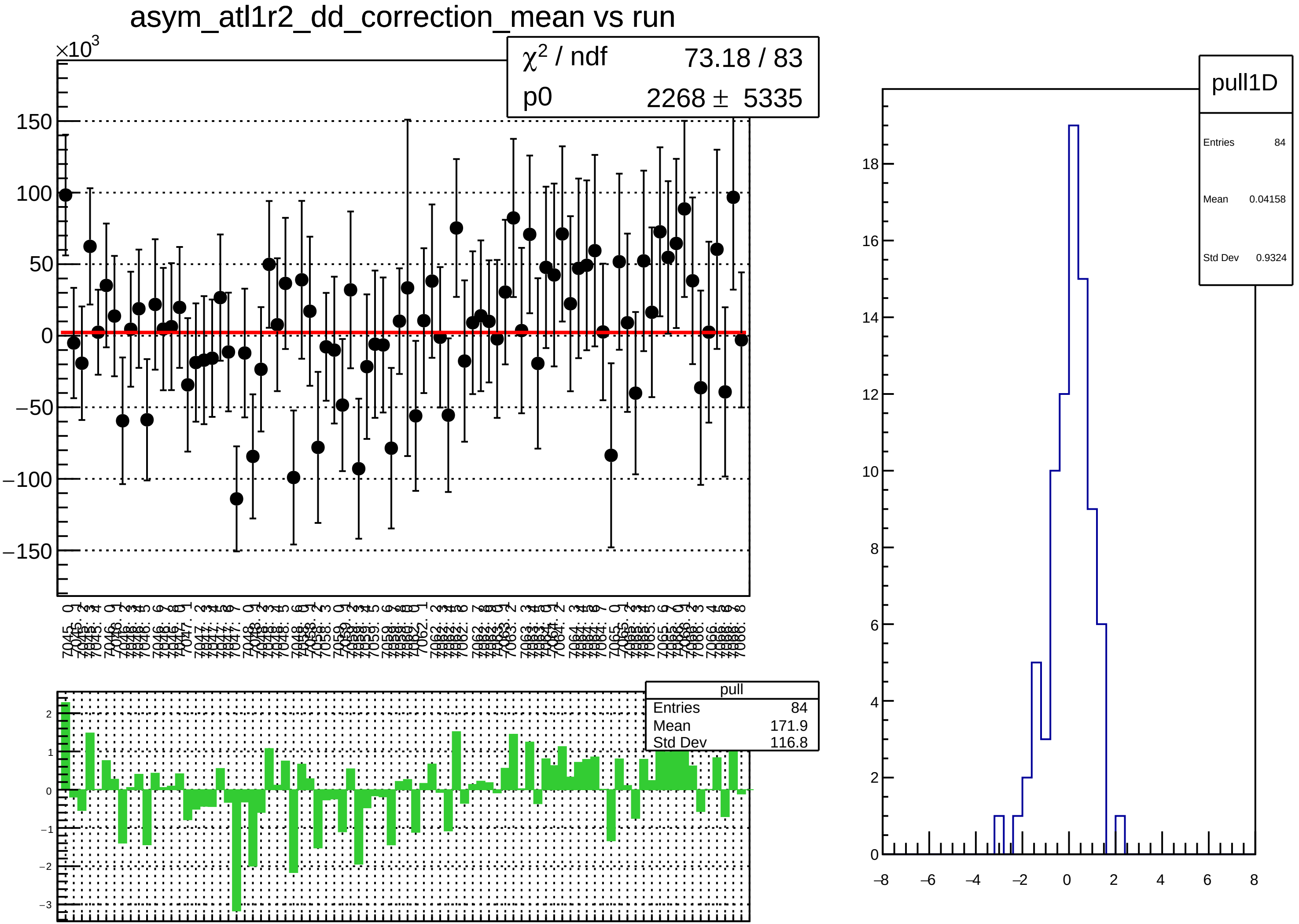


asym_atl1r2_avg_rms vs run
$\chi^2$ / ndf 2.633e+04 / 83
p0 5767 ± 4.605
8000
7500
7000
6500
6000
5500
5000
4500

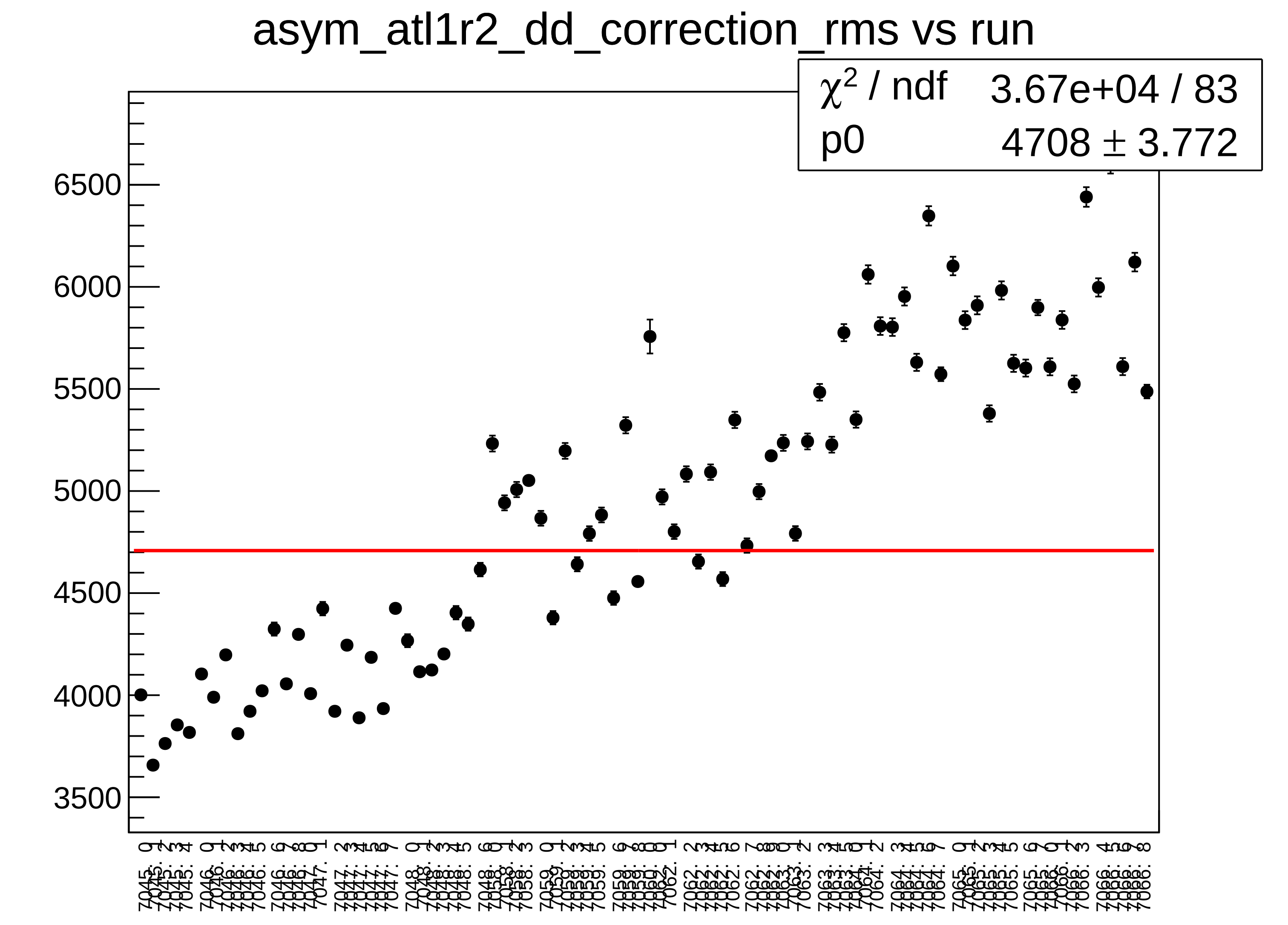


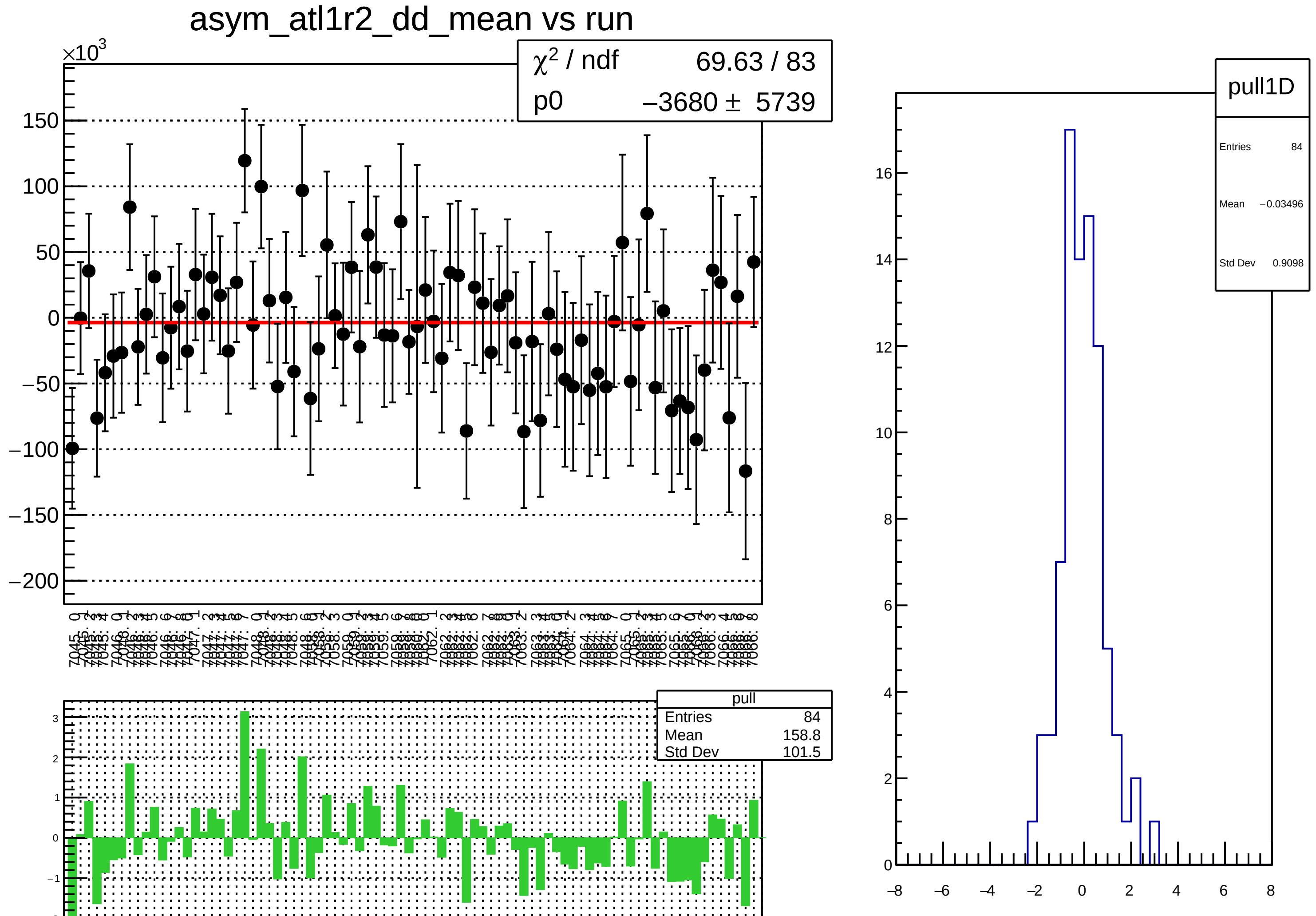
reg_asym_atl1r2_dd_mean vs run
χ2 / ndf 70.5 / 83
p0 −515.1 ± 1944
pull
Entries 84
Mean −265.4
Std Dev 313
pull1D
Entries 84
Mean −0.009019
Std Dev 0.9161


reg_asym_atl1r2_dd_rms vs run
$\chi^2$ / ndf 1.184e+04 / 83
p0 1730 ± 1.375

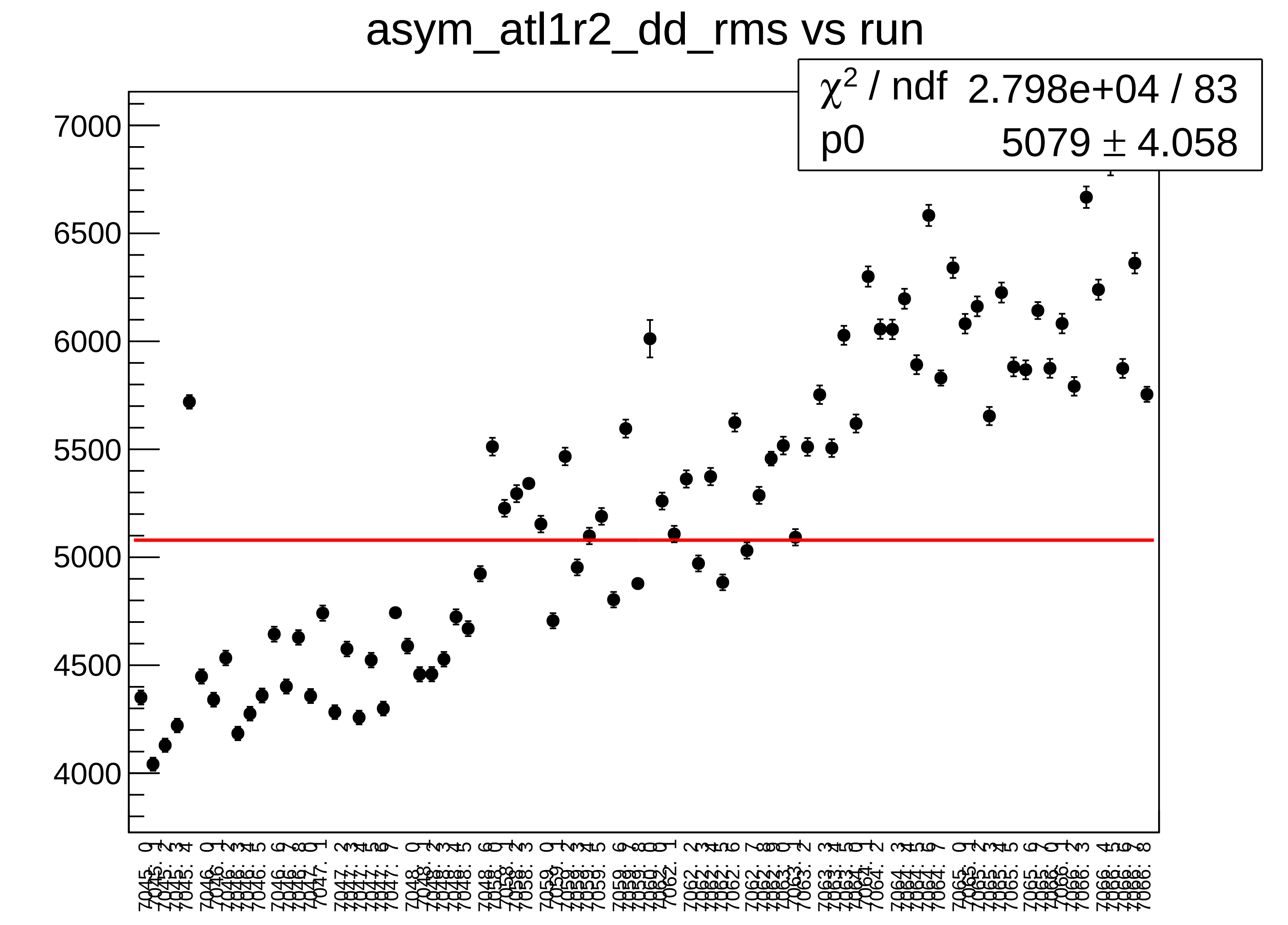


asym_atl1r2_dd_correction_mean vs run
$\times 10^3$
$\chi^2$ / ndf 73.18 / 83
p0 2268 ± 5335
pull
Entries 84
Mean 171.9
Std Dev 116.8
pull1D
Entries 84
Mean 0.04158
Std Dev 0.9324

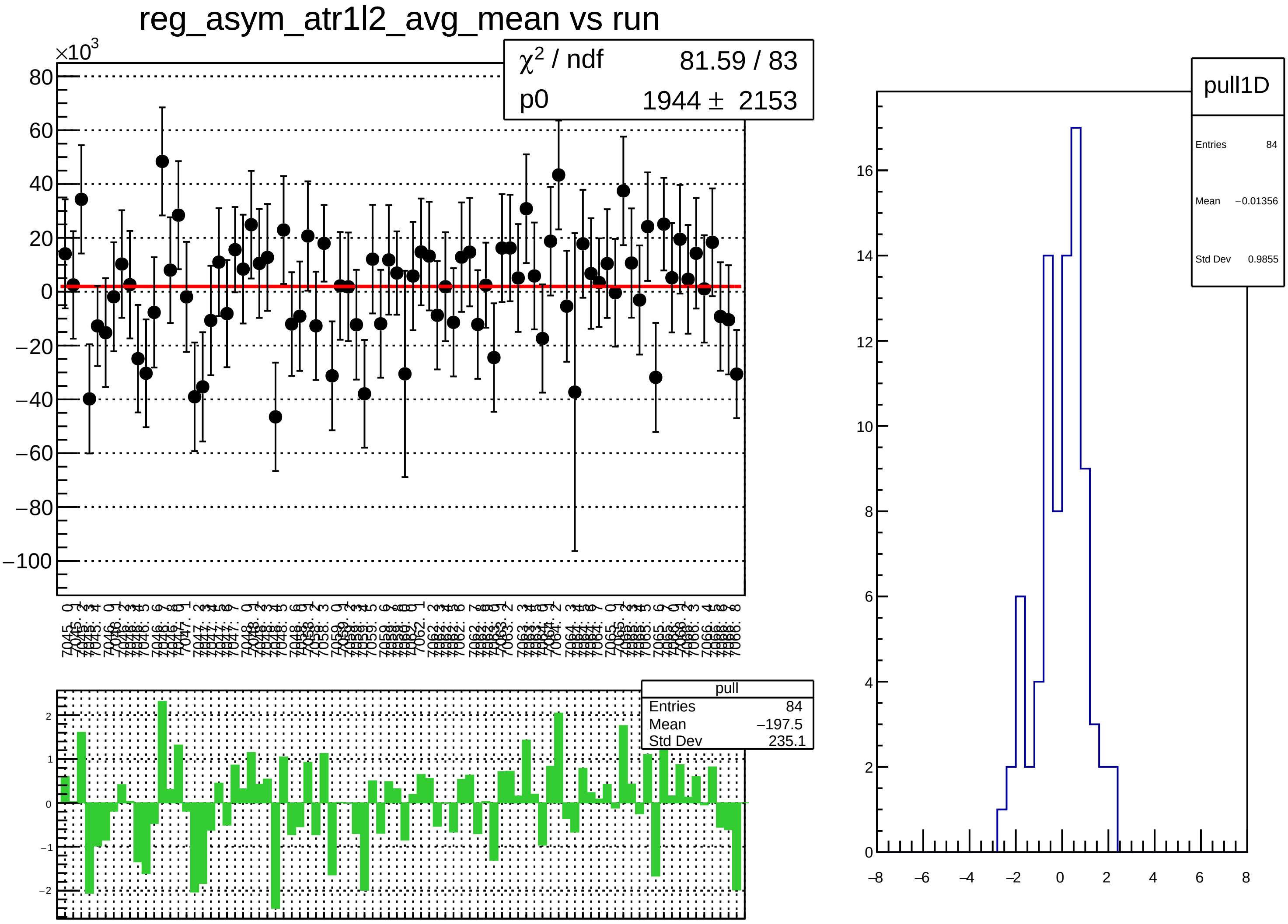

asym_atl1r2_dd_correction_rms vs run
$\chi^2$ / ndf 3.67e+04 / 83
p0 4708 ± 3.772
6500
6000
5500
5000
4500
4000
3500



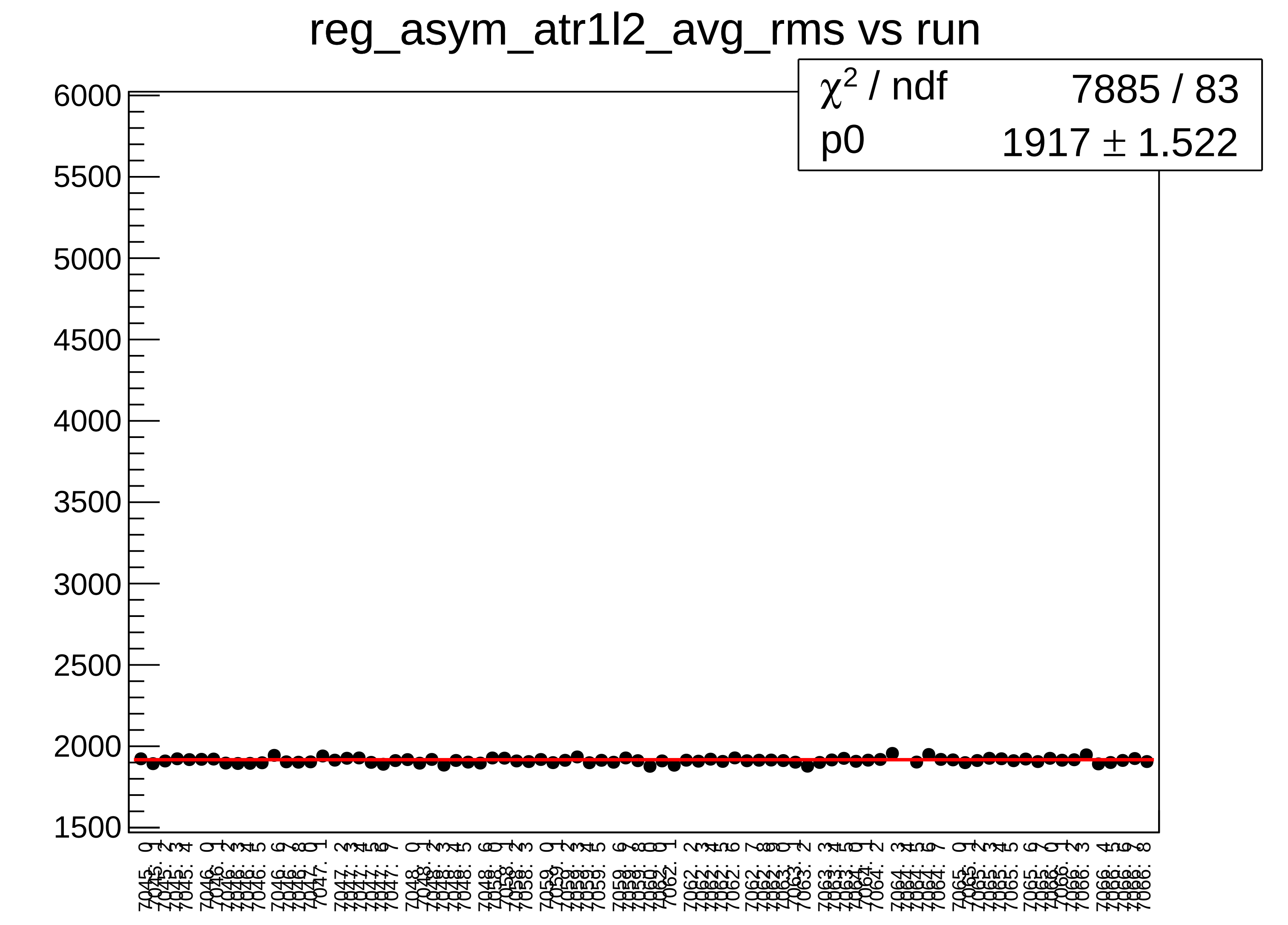
asym_atl1r2_dd_mean vs run
×10^3
χ2 / ndf 69.63 / 83
p0 −3680 ± 5739
pull
Entries 84
Mean 158.8
Std Dev 101.5
pull1D
Entries 84
Mean −0.03496
Std Dev 0.9098



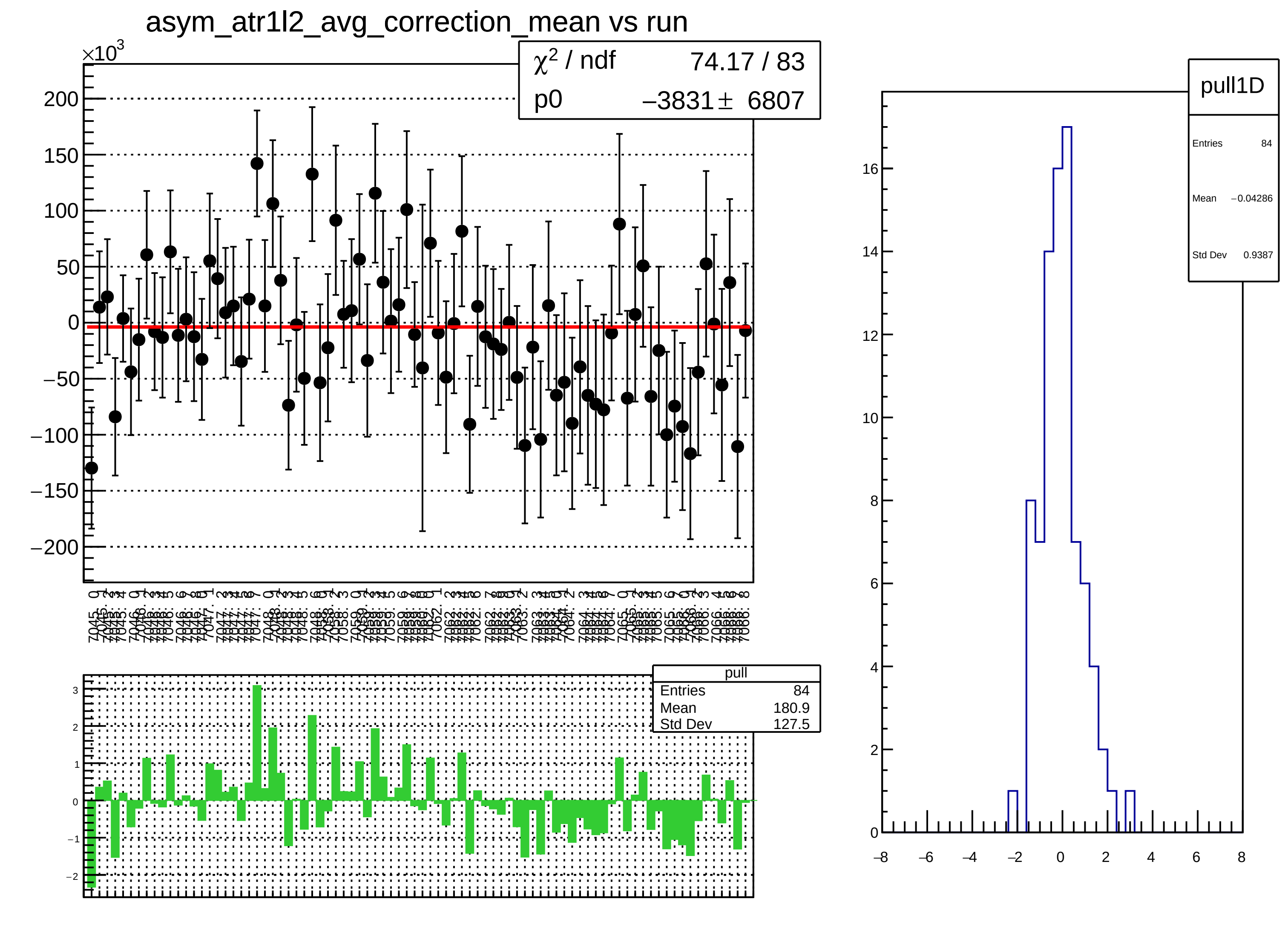
asym_atl1r2_dd_rms vs run
$\chi^2$ / ndf 2.798e+04 / 83
p0 5079 ± 4.058
7000
6500
6000
5500
5000
4500
4000

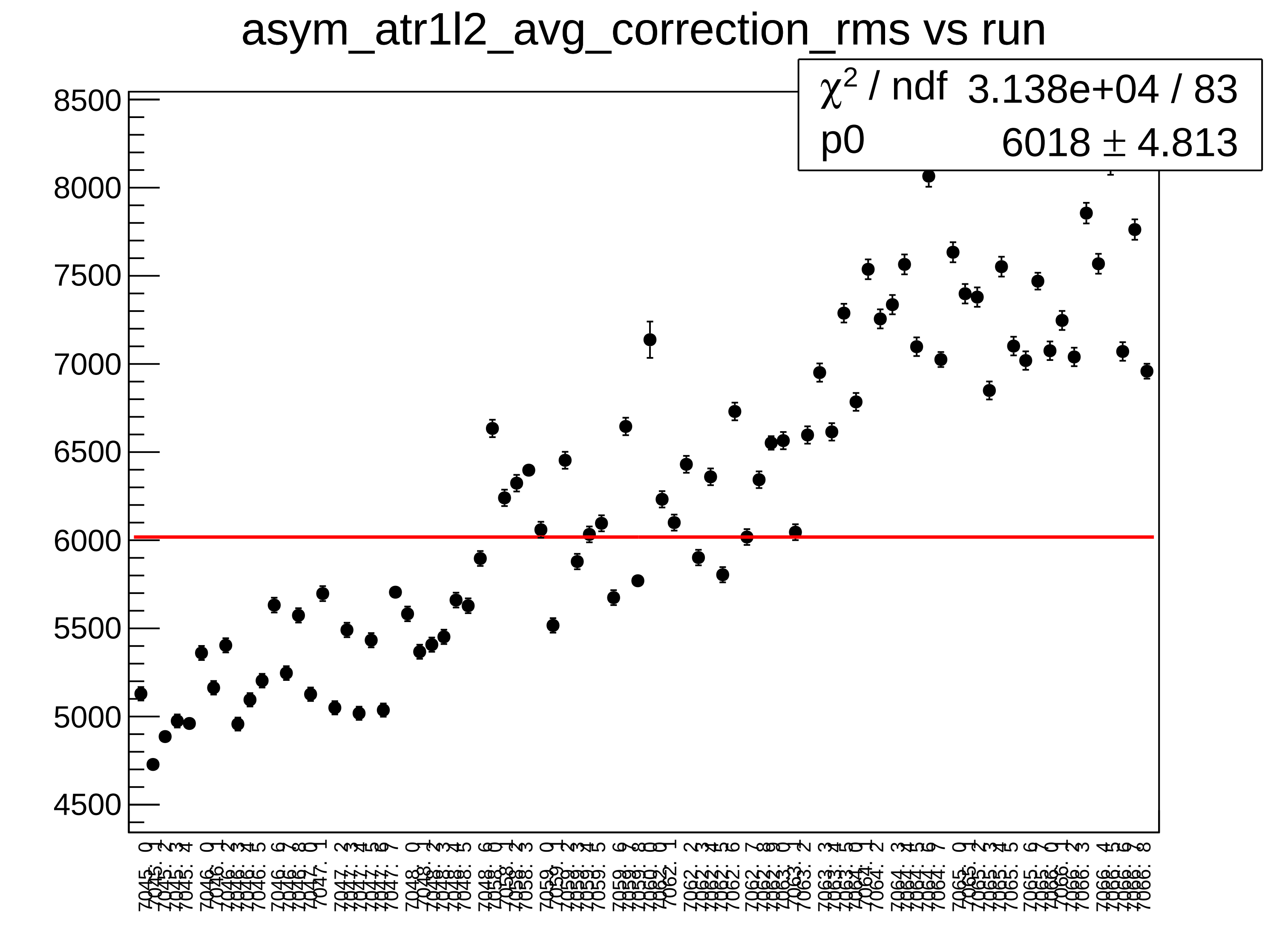


reg_asym_atr1l2_avg_mean vs run
$\chi^2$ / ndf 81.59 / 83
p0 1944 ± 2153
pull
Entries 84
Mean −197.5
Std Dev 235.1
pull1D
Entries 84
Mean −0.01356
Std Dev 0.9855

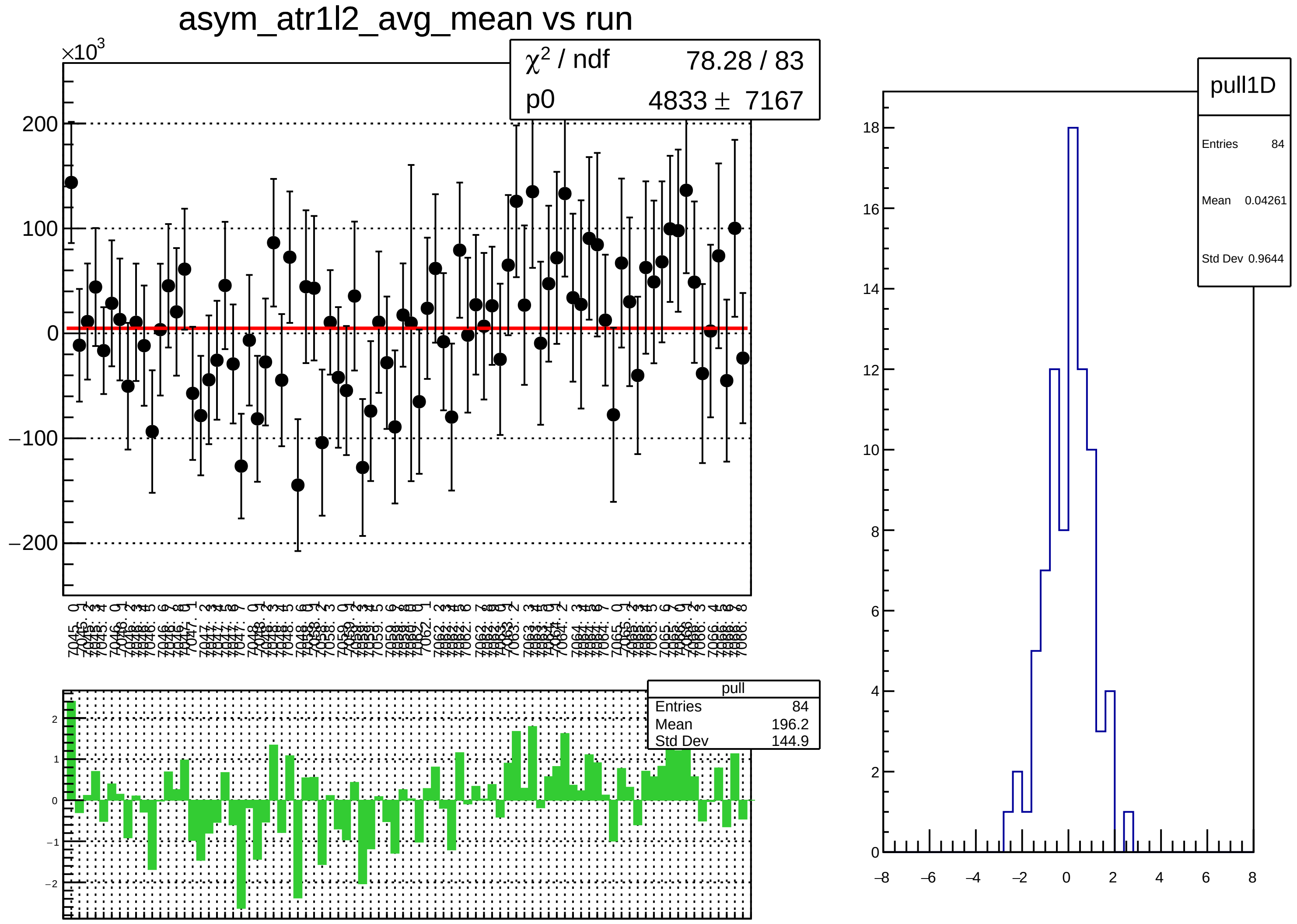


reg_asym_atr1l2_avg_rms vs run
$\chi^2$ / ndf 7885 / 83
p0 1917 ± 1.522

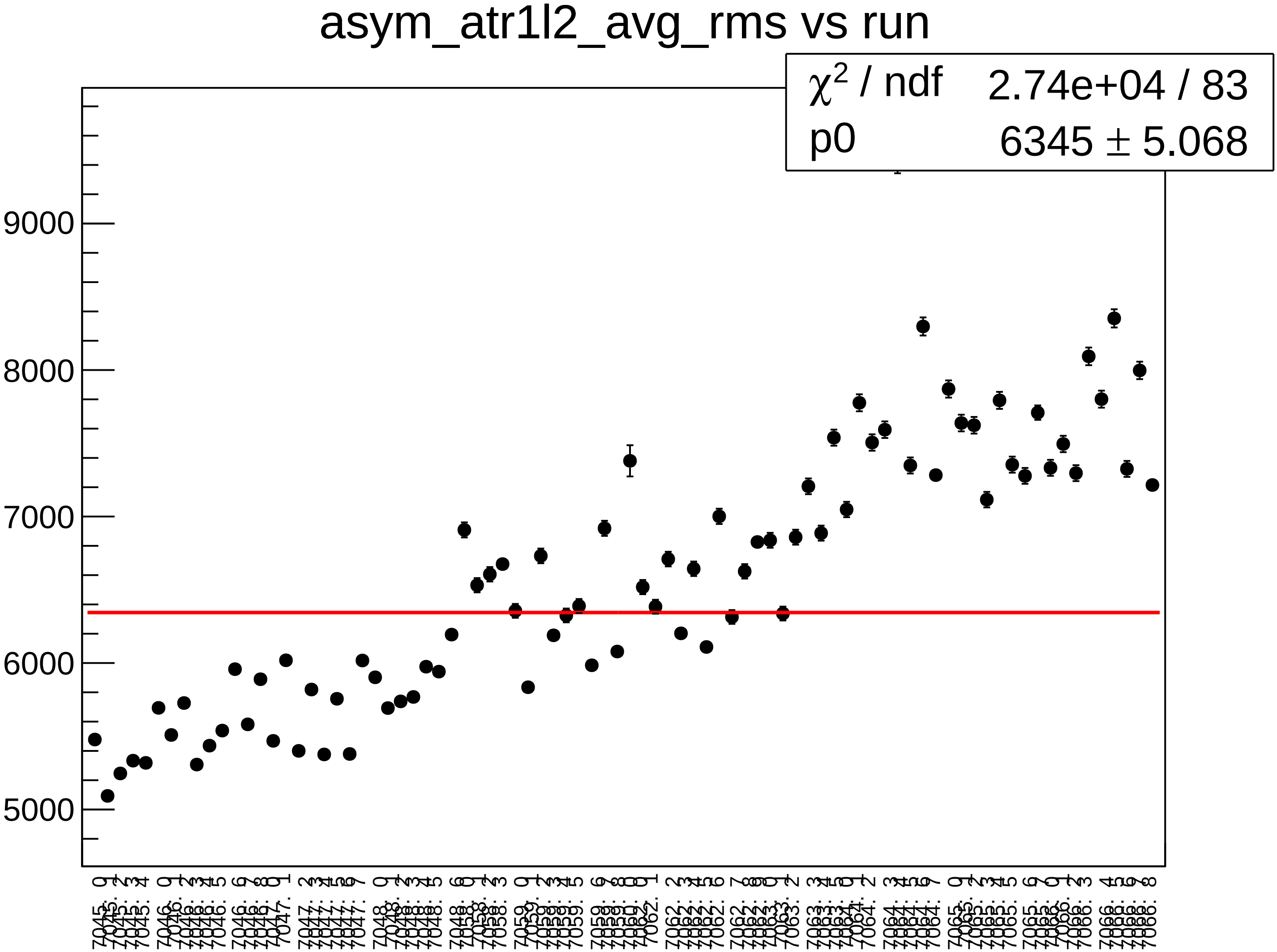

asym_atr1l2_avg_correction_mean vs run
$\chi^2$ / ndf 74.17 / 83
p0 −3831 ± 6807
pull
Entries 84
Mean 180.9
Std Dev 127.5
pull1D
Entries 84
Mean −0.04286
Std Dev 0.9387



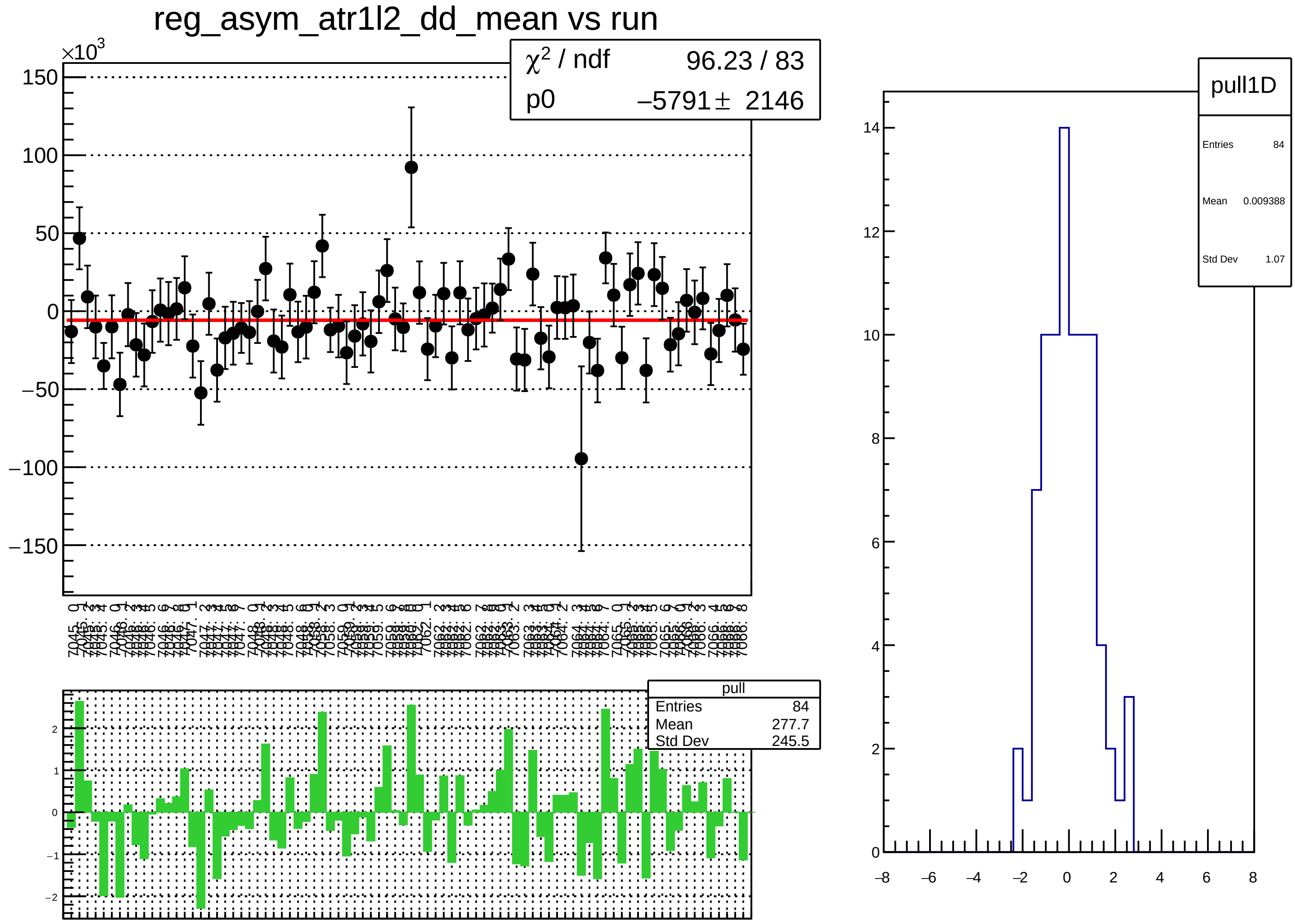
asym_atr1l2_avg_correction_rms vs run
$\chi^2$ / ndf 3.138e+04 / 83
p0 6018 ± 4.813
8500
8000
7500
7000
6500
6000
5500
5000
4500

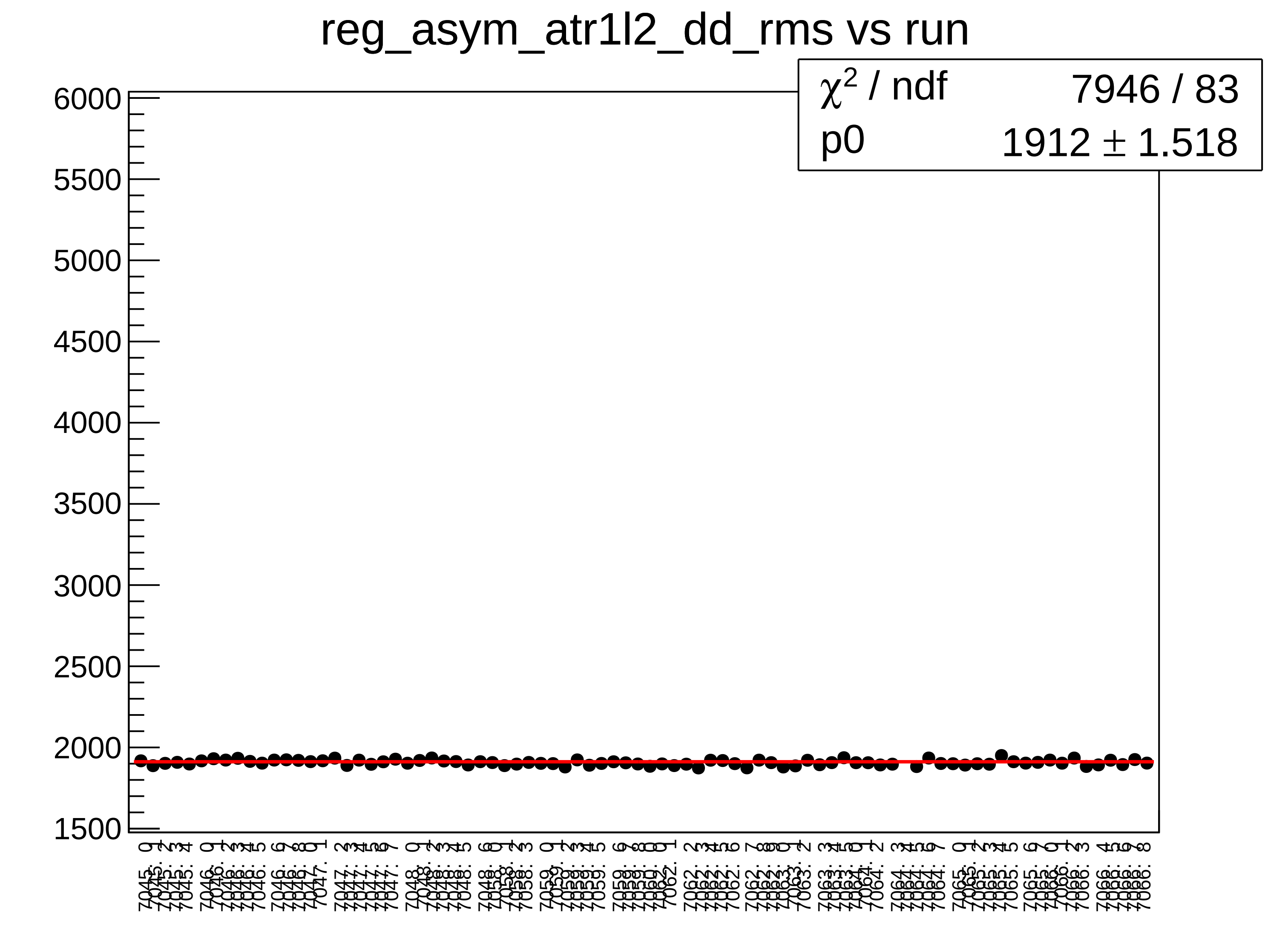


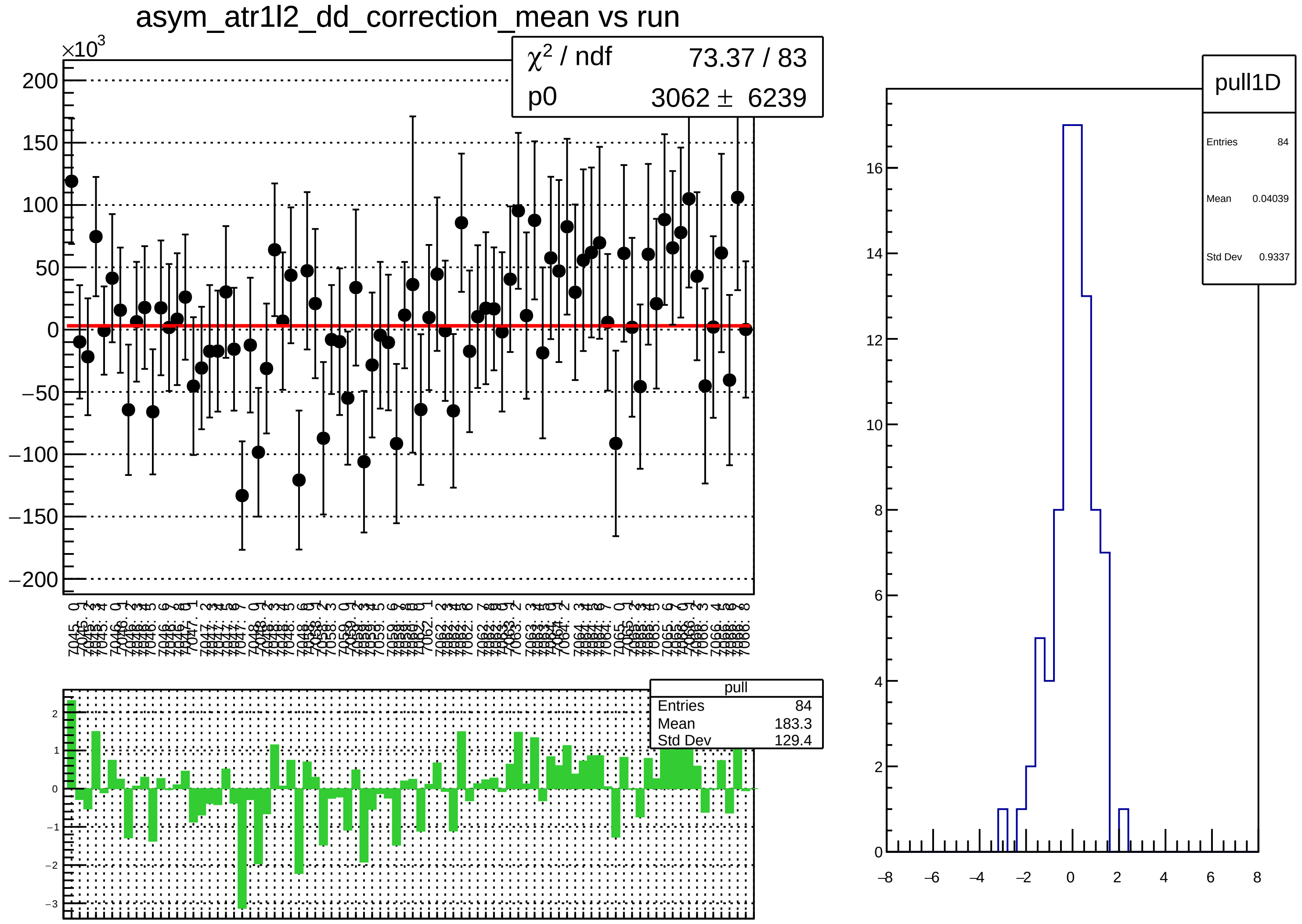
asym_atr1l2_avg_mean vs run
×10^3
χ2 / ndf 78.28 / 83
p0 4833 ± 7167
200
100
0
−100
−200
pull
Entries 84
Mean 196.2
Std Dev 144.9
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.04261
Std Dev 0.9644
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



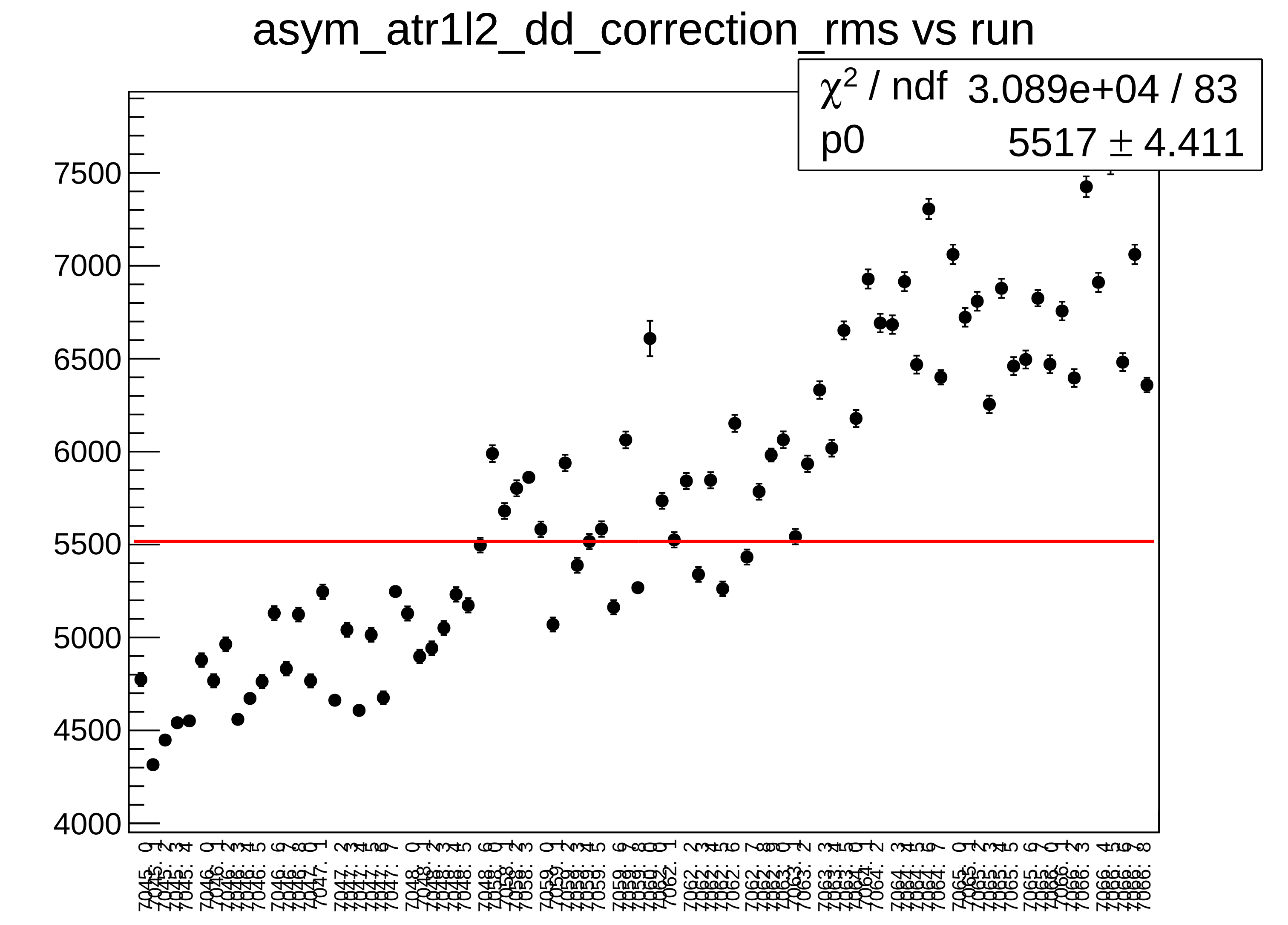
asym_atr1l2_avg_rms vs run
$\chi^2$ / ndf 2.74e+04 / 83
p0 6345 ± 5.068
9000
8000
7000
6000
5000


reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 96.23 / 83
p0 −5791 ± 2146
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 277.7
Std Dev 245.5
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.009388
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

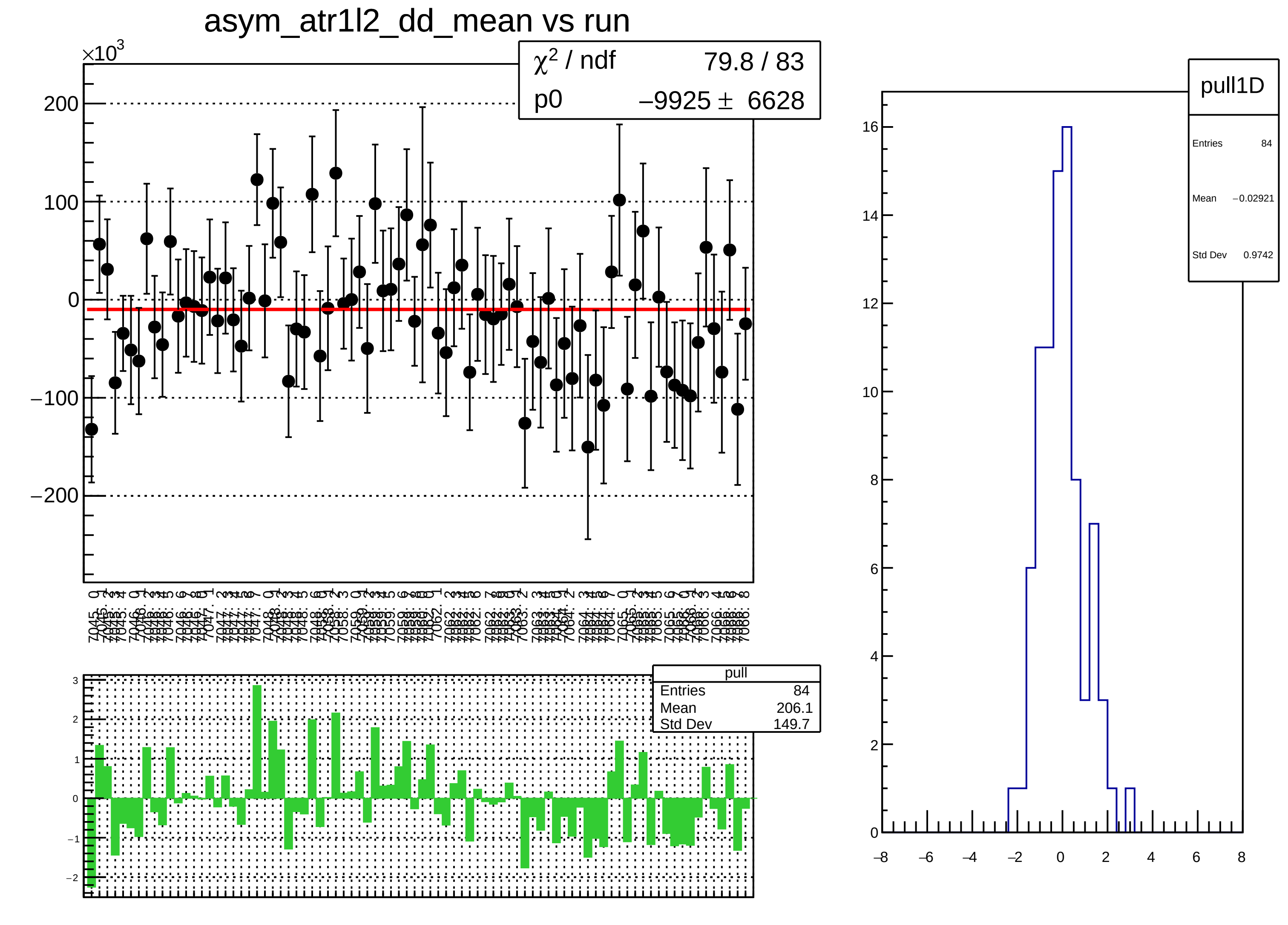

reg_asym_atr1l2_dd_rms vs run
$\chi^2$ / ndf 7946 / 83
p0 1912 ± 1.518
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500



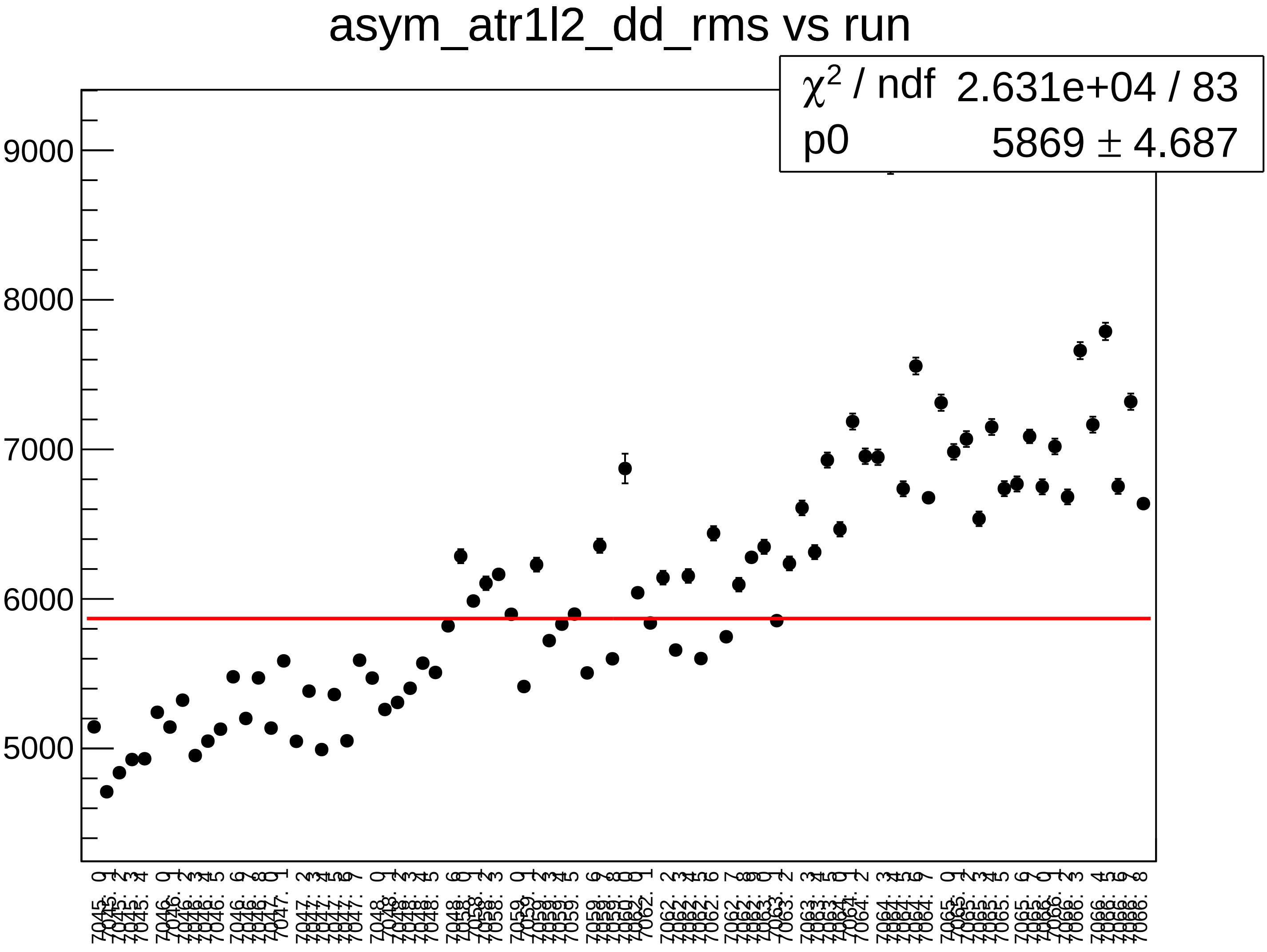
asym_atr1l2_dd_correction_mean vs run
$\chi^2$ / ndf 73.37 / 83
p0 3062 ± 6239
×10^3
pull
Entries 84
Mean 183.3
Std Dev 129.4
pull1D
Entries 84
Mean 0.04039
Std Dev 0.9337



asym_atr1l2_dd_correction_rms vs run
$\chi^2$ / ndf 3.089e+04 / 83
p0 5517 ± 4.411
7500
7000
6500
6000
5500
5000
4500
4000

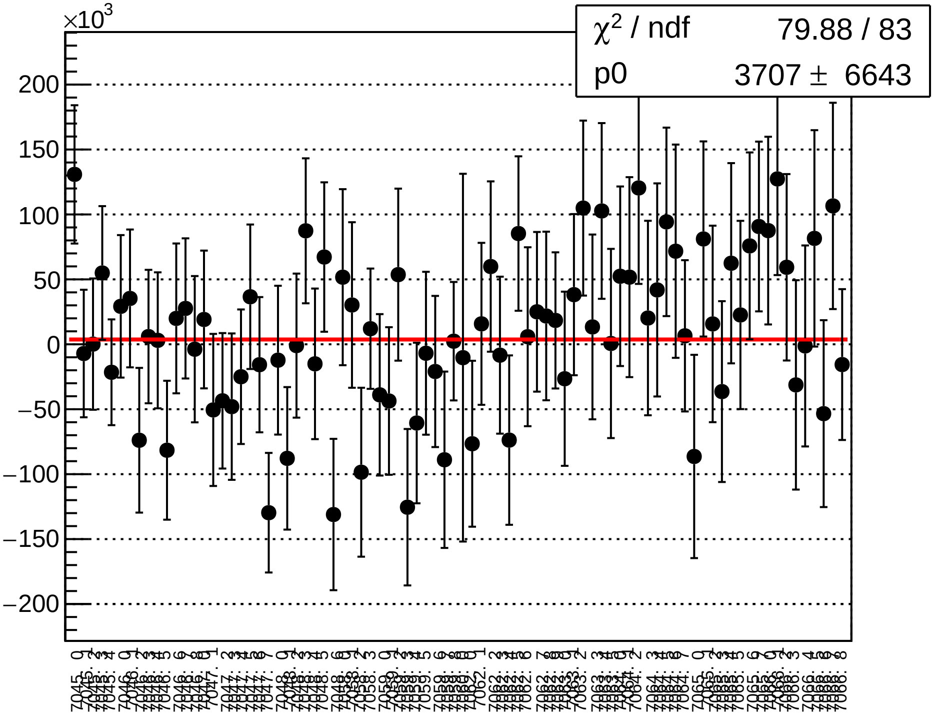


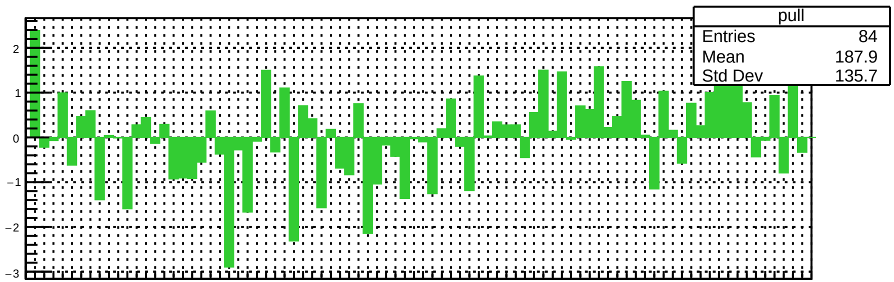
asym_atr1l2_dd_mean vs run
$\times10^3$
$\chi^2$ / ndf 79.8 / 83
p0 −9925 ± 6628
200
100
0
−100
−200
pull
Entries 84
Mean 206.1
Std Dev 149.7
pull1D
Entries 84
Mean −0.02921
Std Dev 0.9742

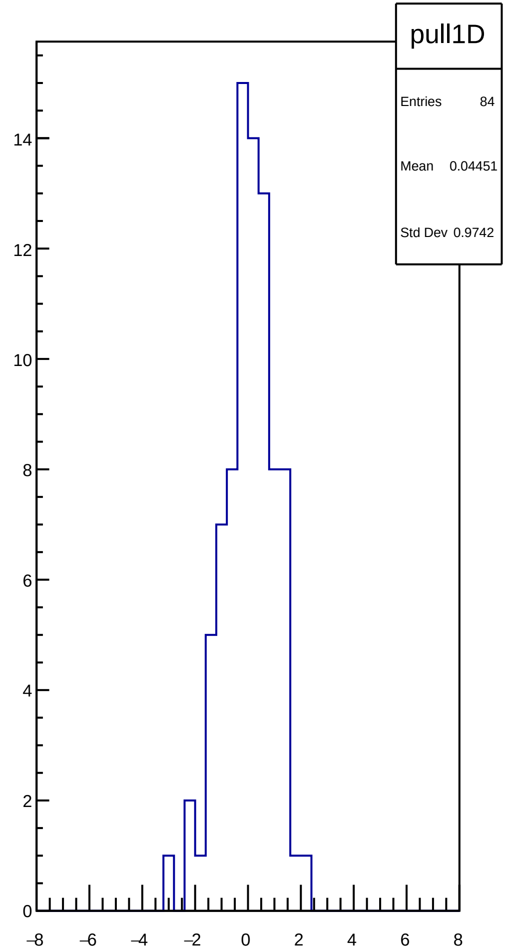


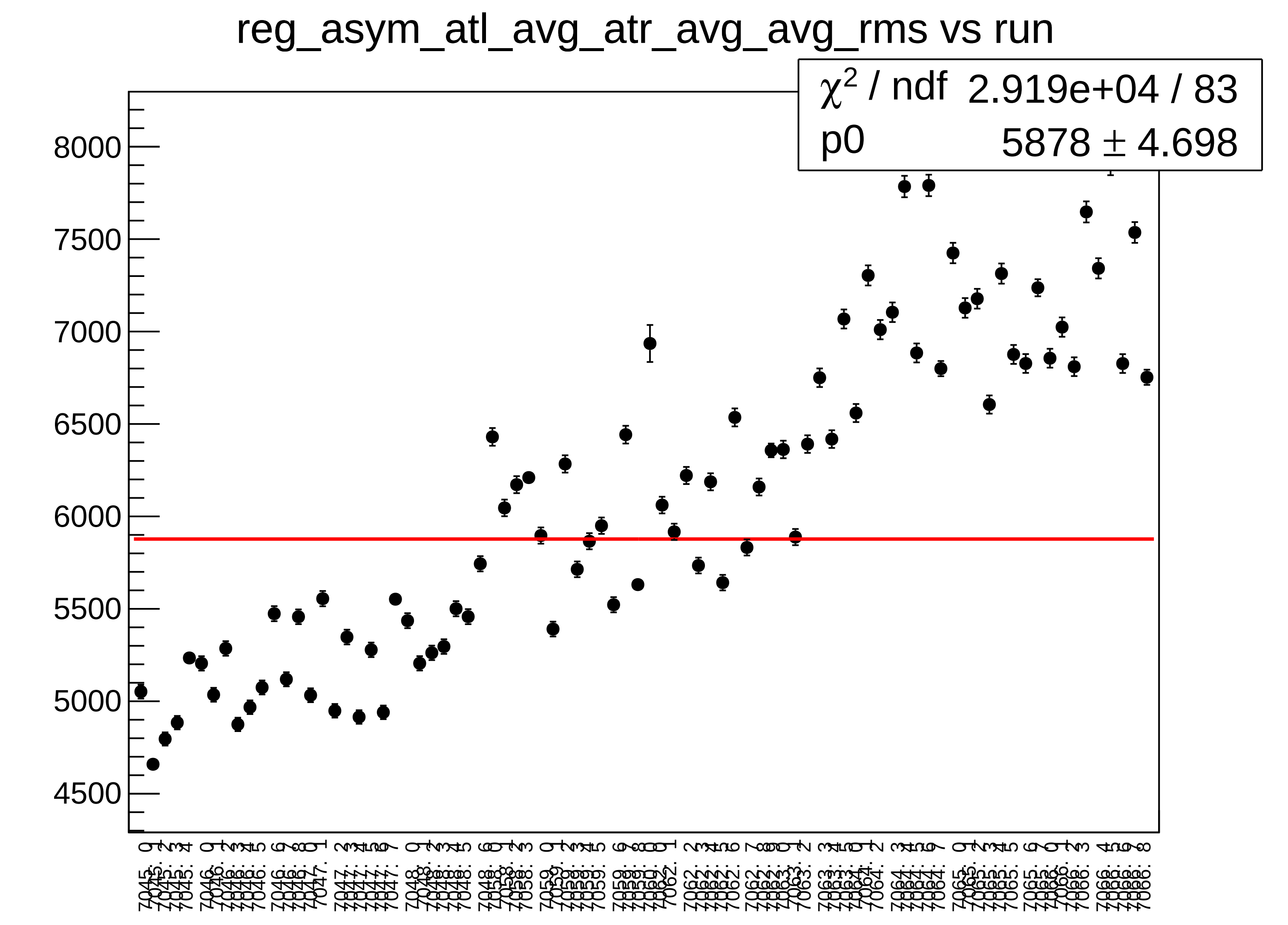
asym_atr1l2_dd_rms vs run
$\chi^2$ / ndf 2.631e+04 / 83
p0 5869 ± 4.687
9000
8000
7000
6000
5000

reg_asym_atl_avg_atr_avg_avg_mean vs run



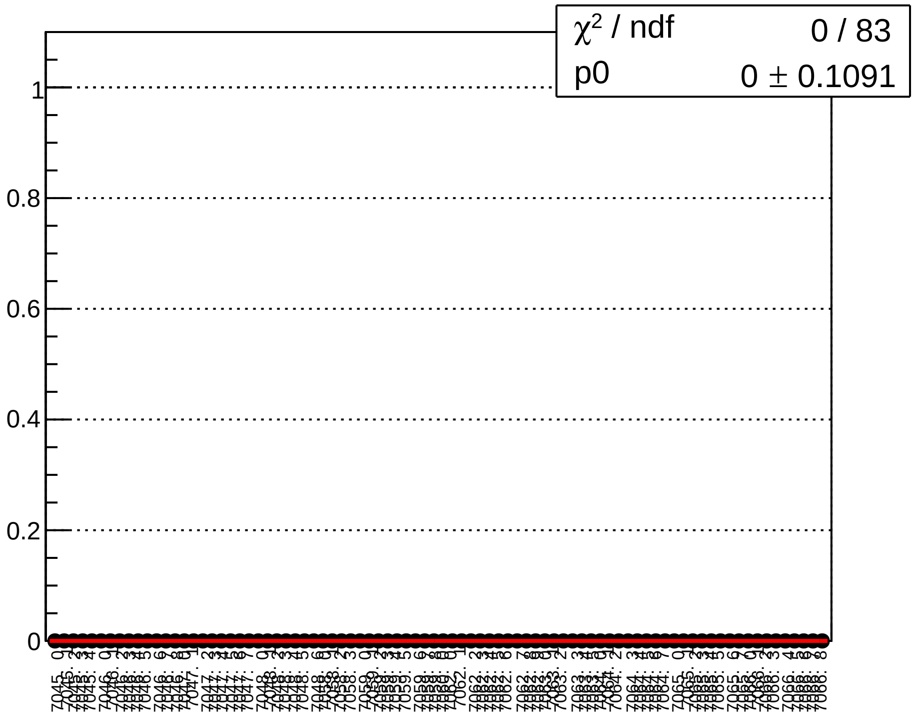



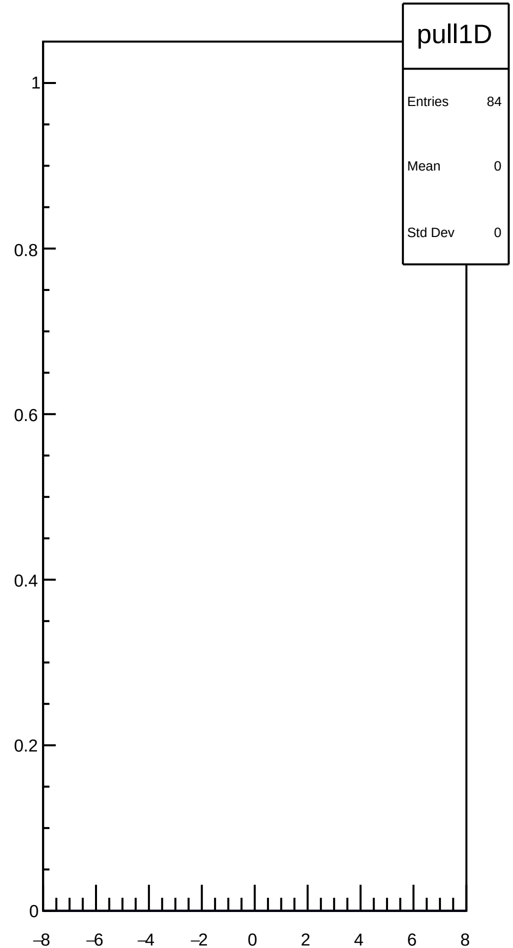



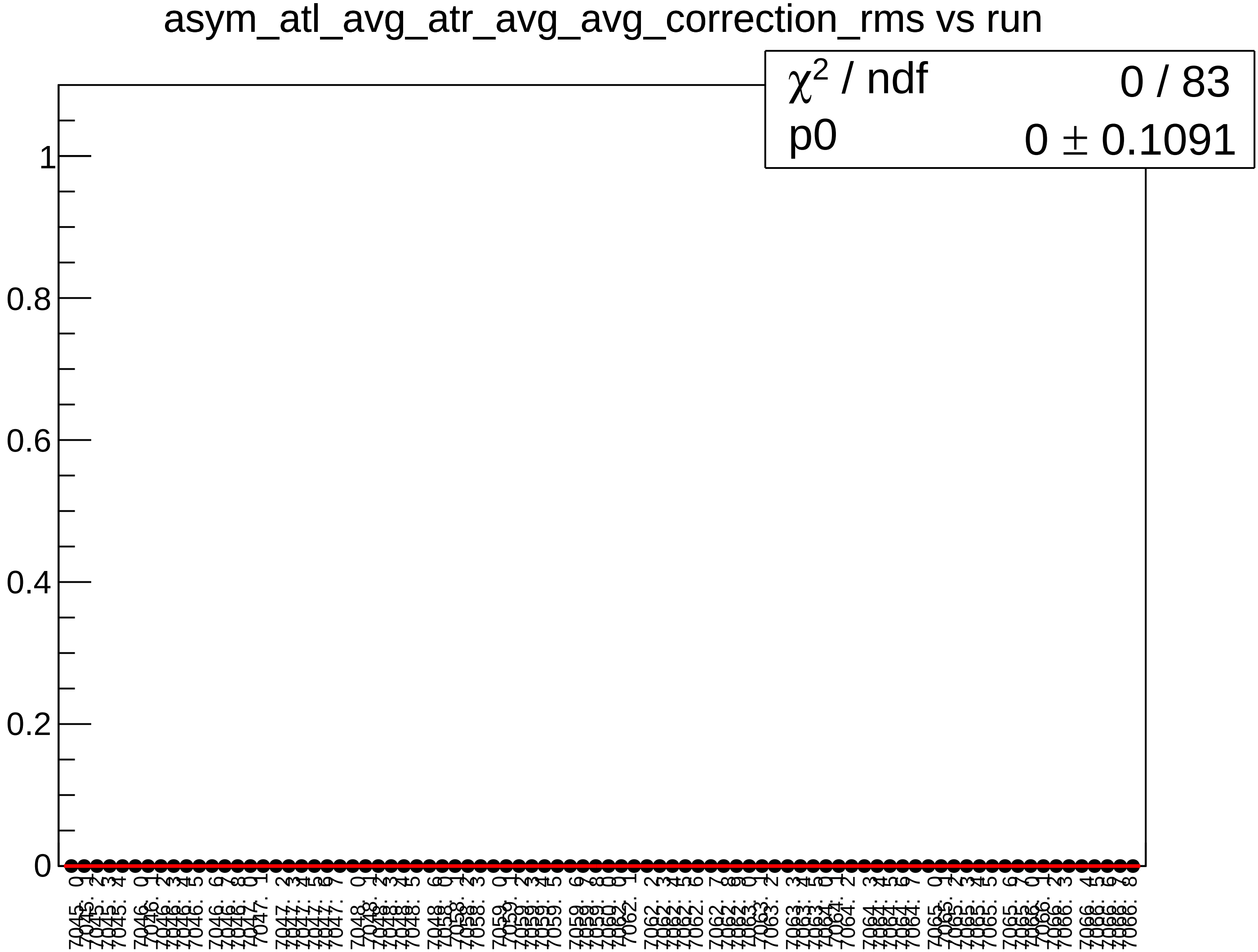


reg_asym_atl_avg_atr_avg_avg_rms vs run
$\chi^2$ / ndf 2.919e+04 / 83
p0 5878 ± 4.698
8000
7500
7000
6500
6000
5500
5000
4500

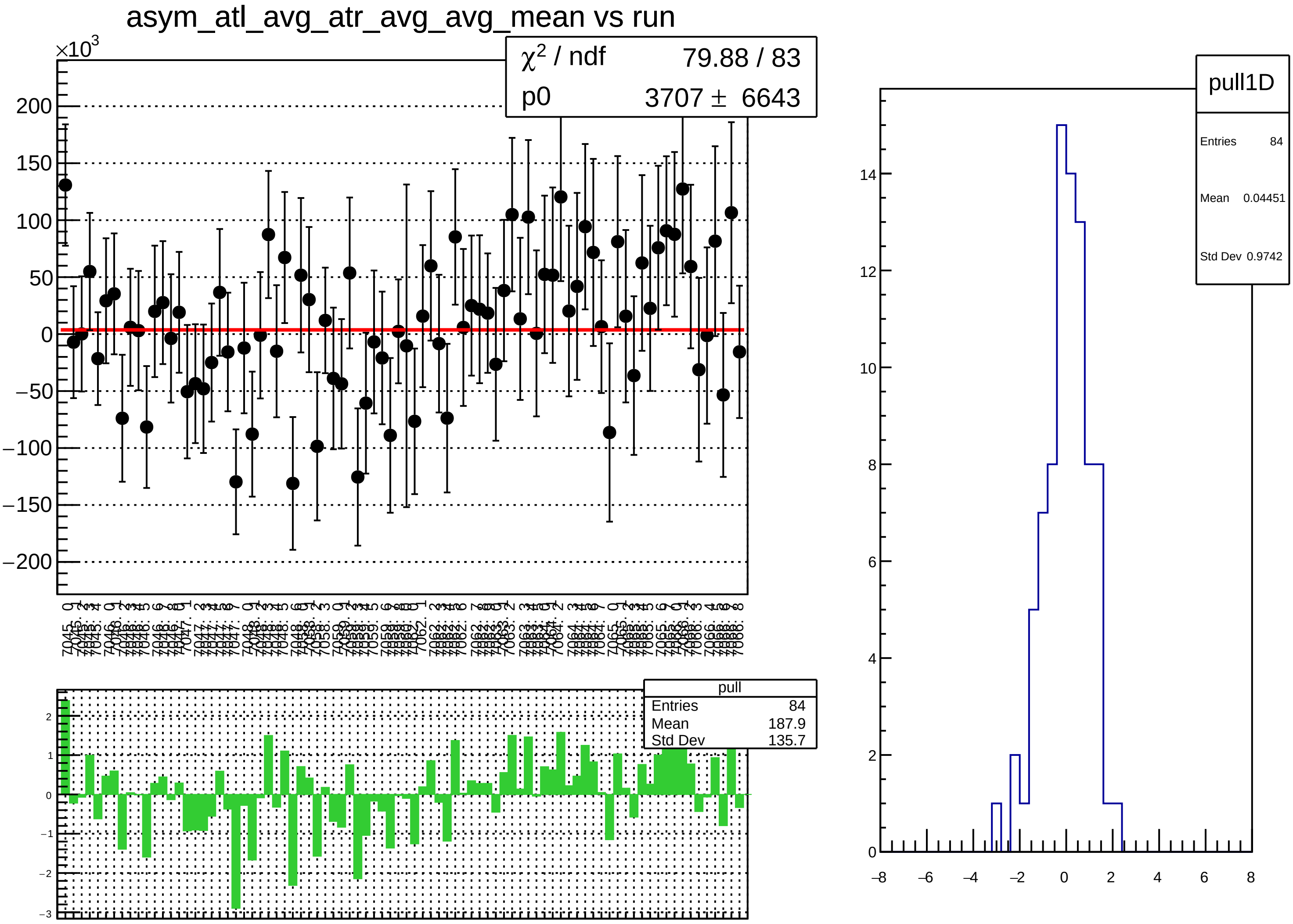
asym_atl_avg_atr_avg_avg_correction_mean vs run



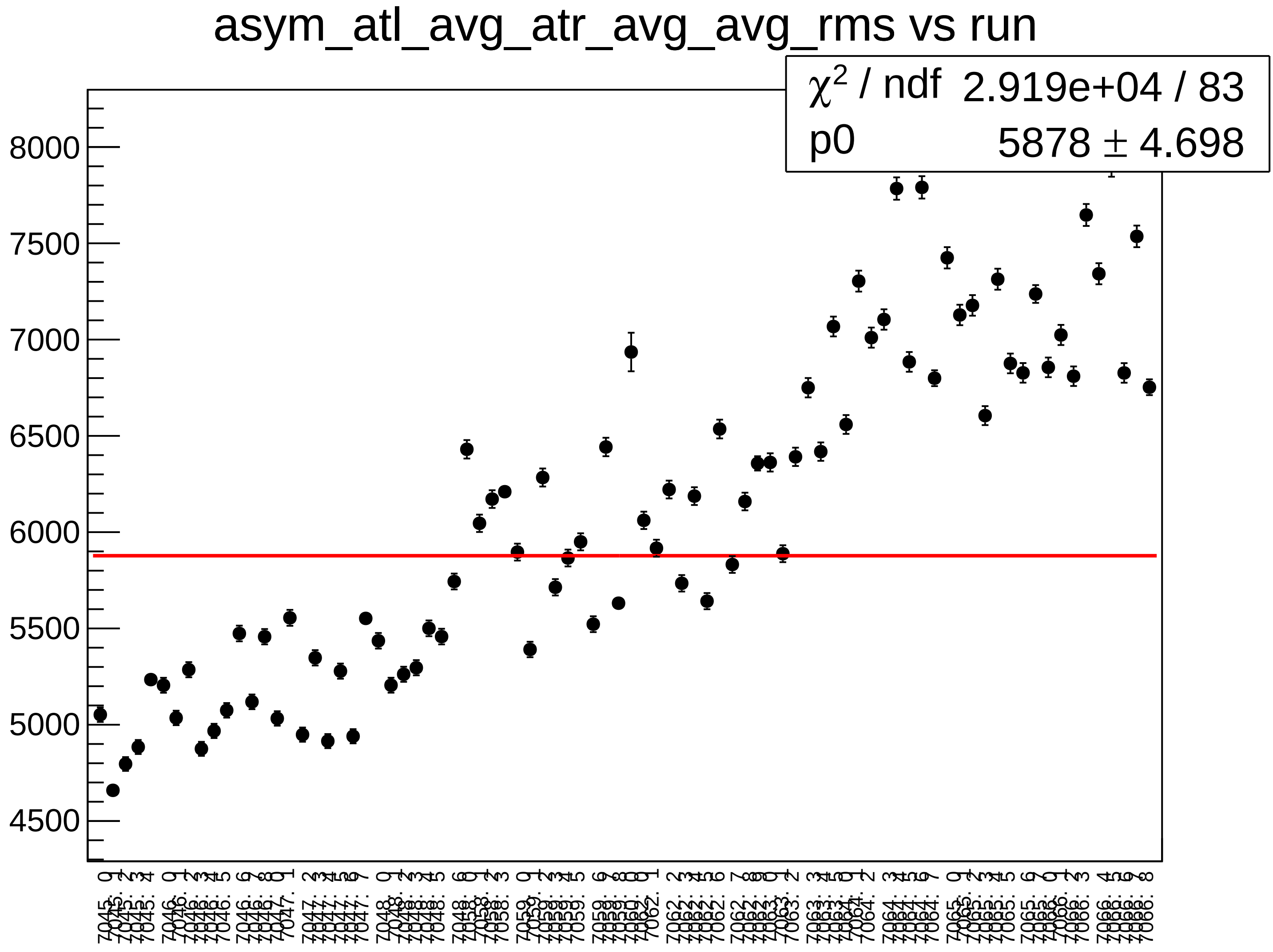





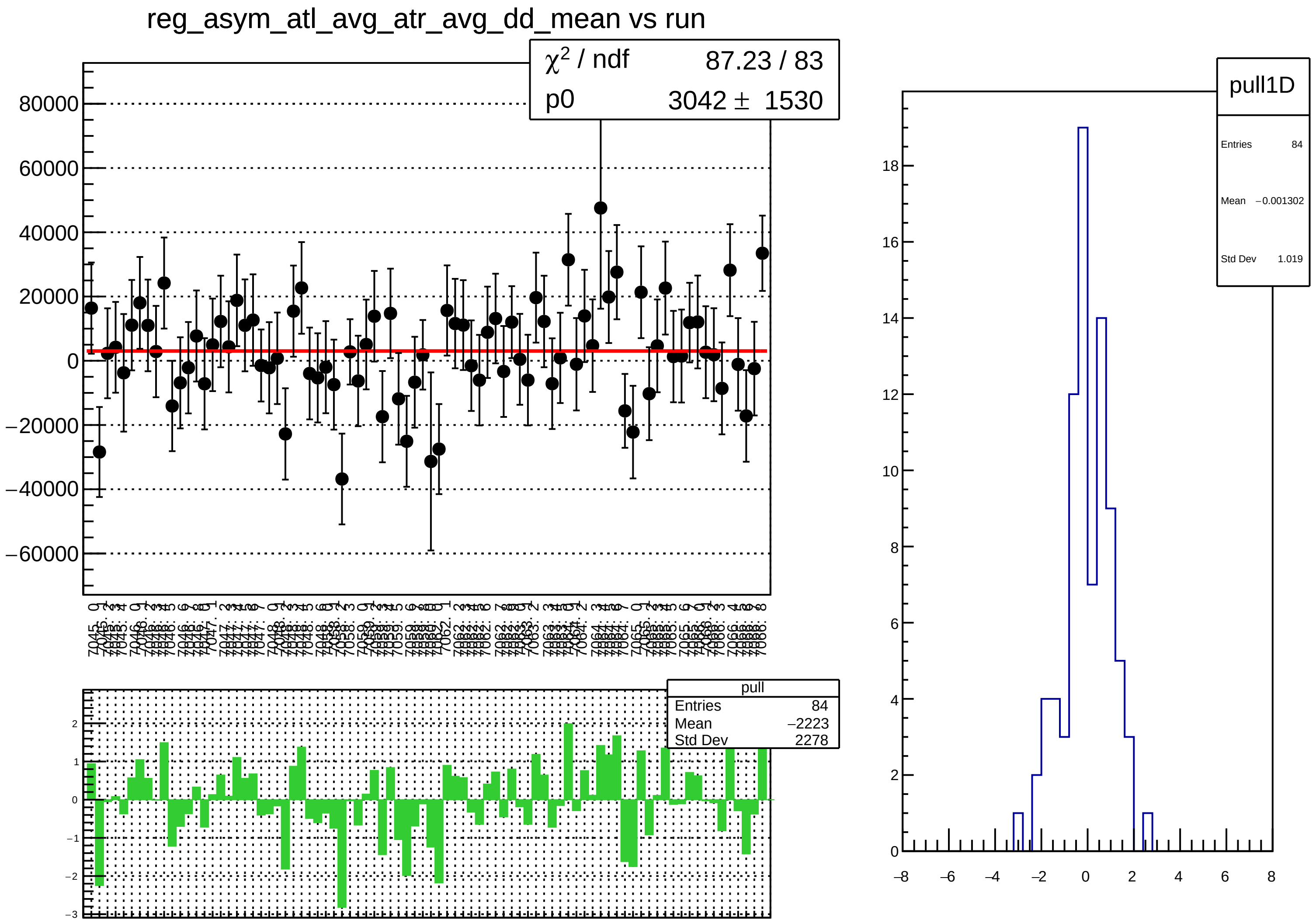
asym_atl_avg_atr_avg_avg_correction_rms vs run
$\chi^2$ / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

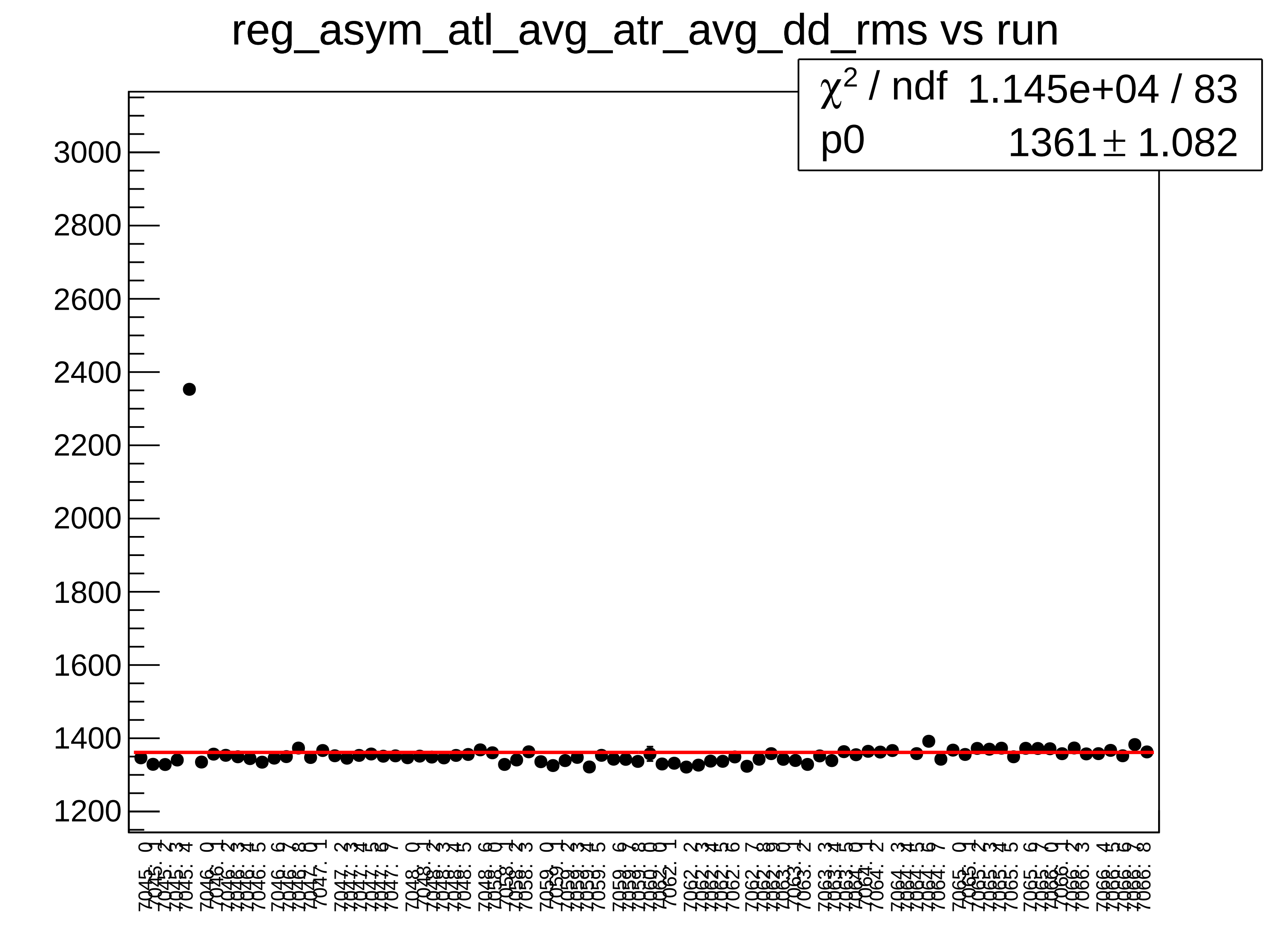


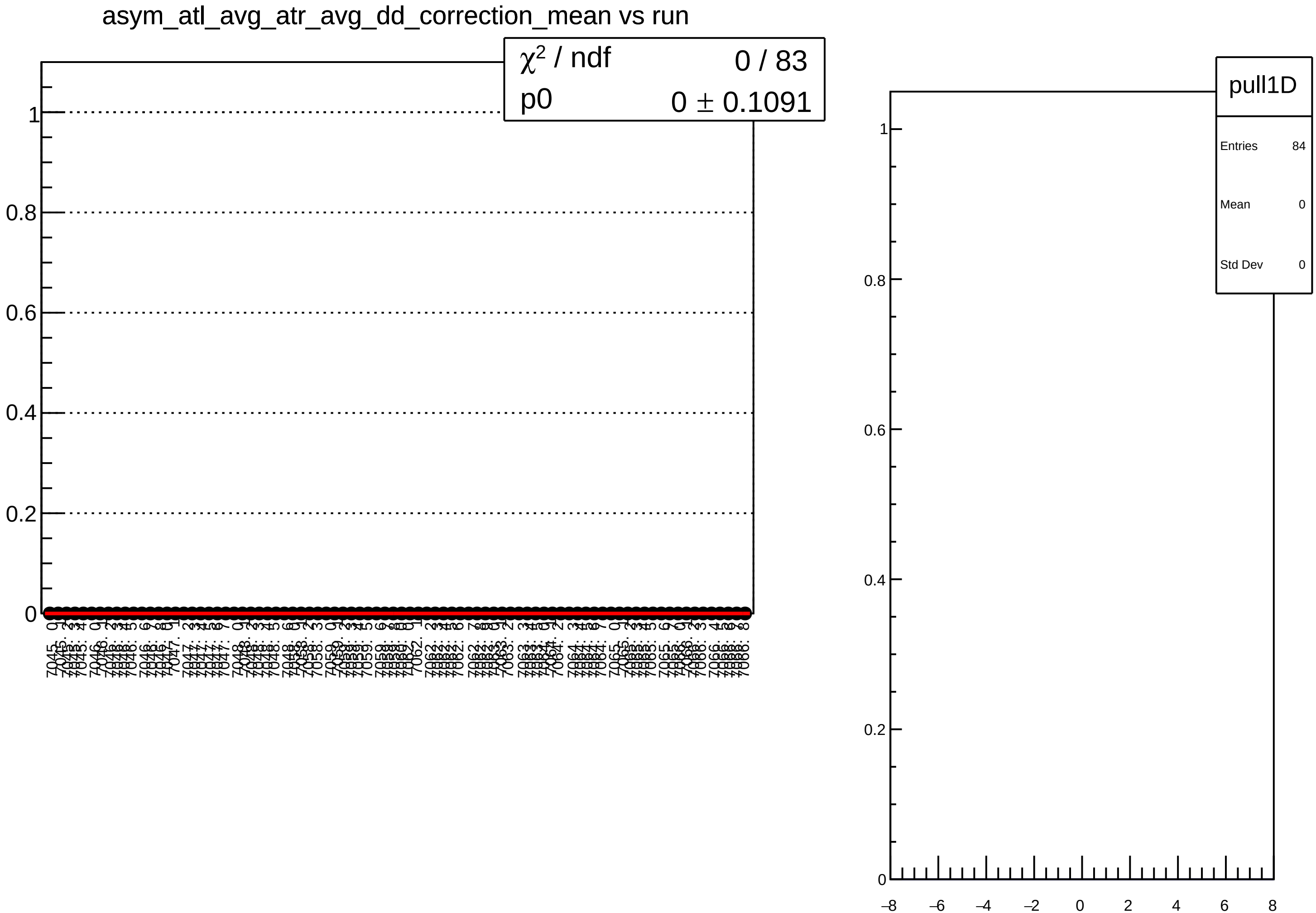
asym_atl_avg_atr_avg_avg_mean vs run
$\times10^3$
$\chi^2$ / ndf 79.88 / 83
p0 3707 ± 6643
pull
Entries 84
Mean 187.9
Std Dev 135.7
pull1D
Entries 84
Mean 0.04451
Std Dev 0.9742

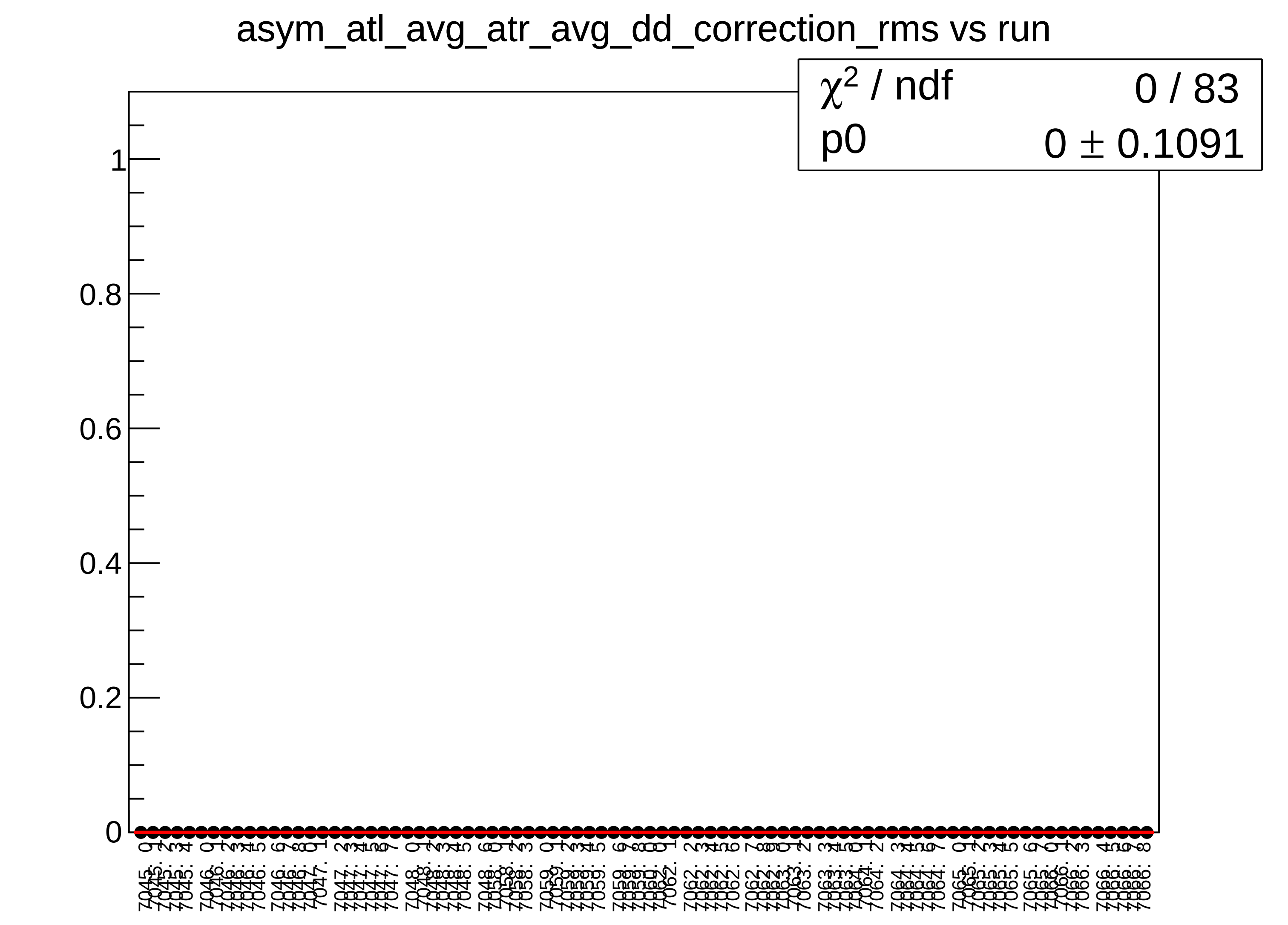


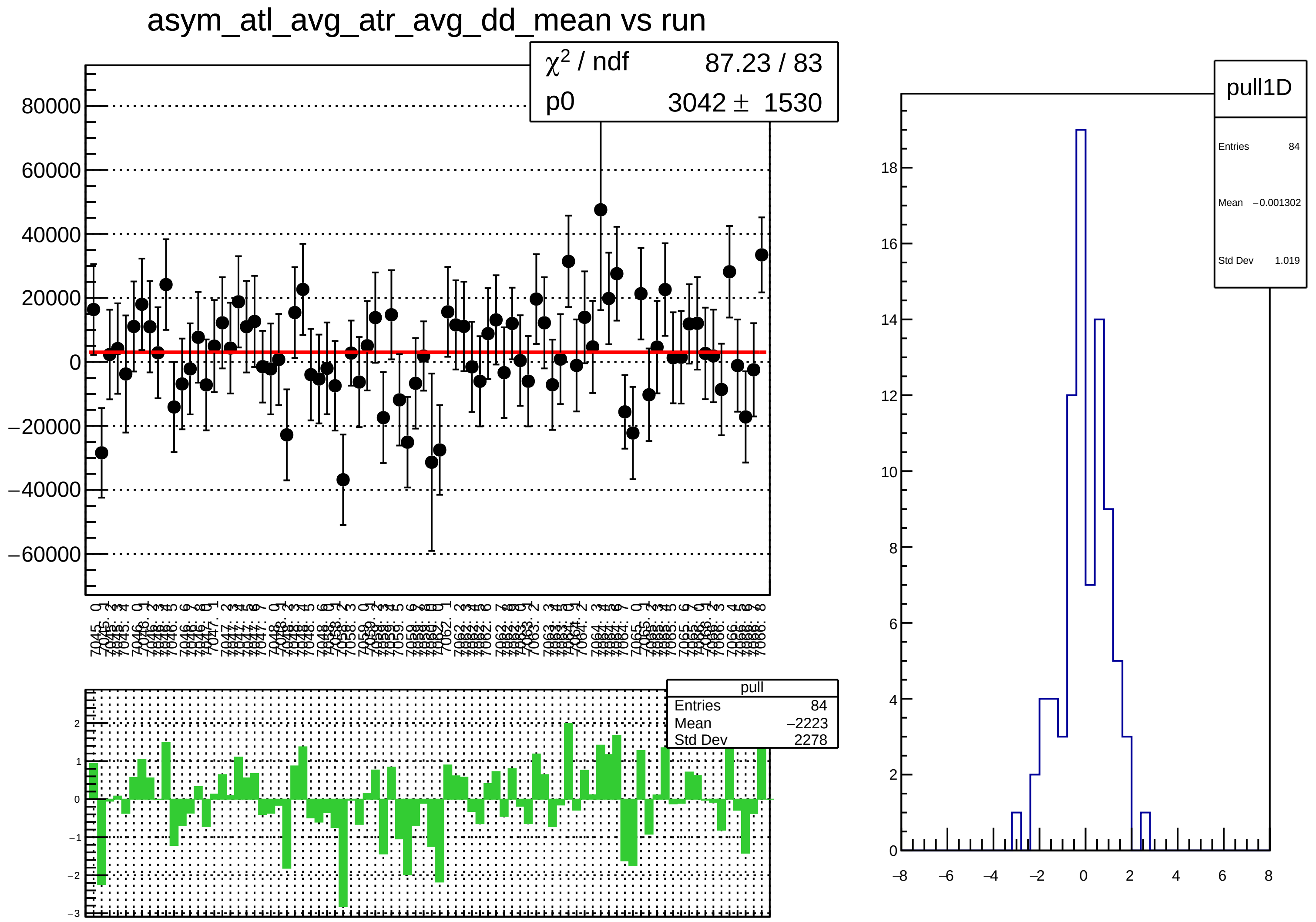
asym_atl_avg_atr_avg_avg_rms vs run
$\chi^2$ / ndf 2.919e+04 / 83
p0 5878 ± 4.698
8000
7500
7000
6500
6000
5500
5000
4500


reg_asym_atl_avg_atr_avg_dd_mean vs run
χ2 / ndf 87.23 / 83
p0 3042 ± 1530
pull
Entries 84
Mean −2223
Std Dev 2278
pull1D
Entries 84
Mean −0.001302
Std Dev 1.019

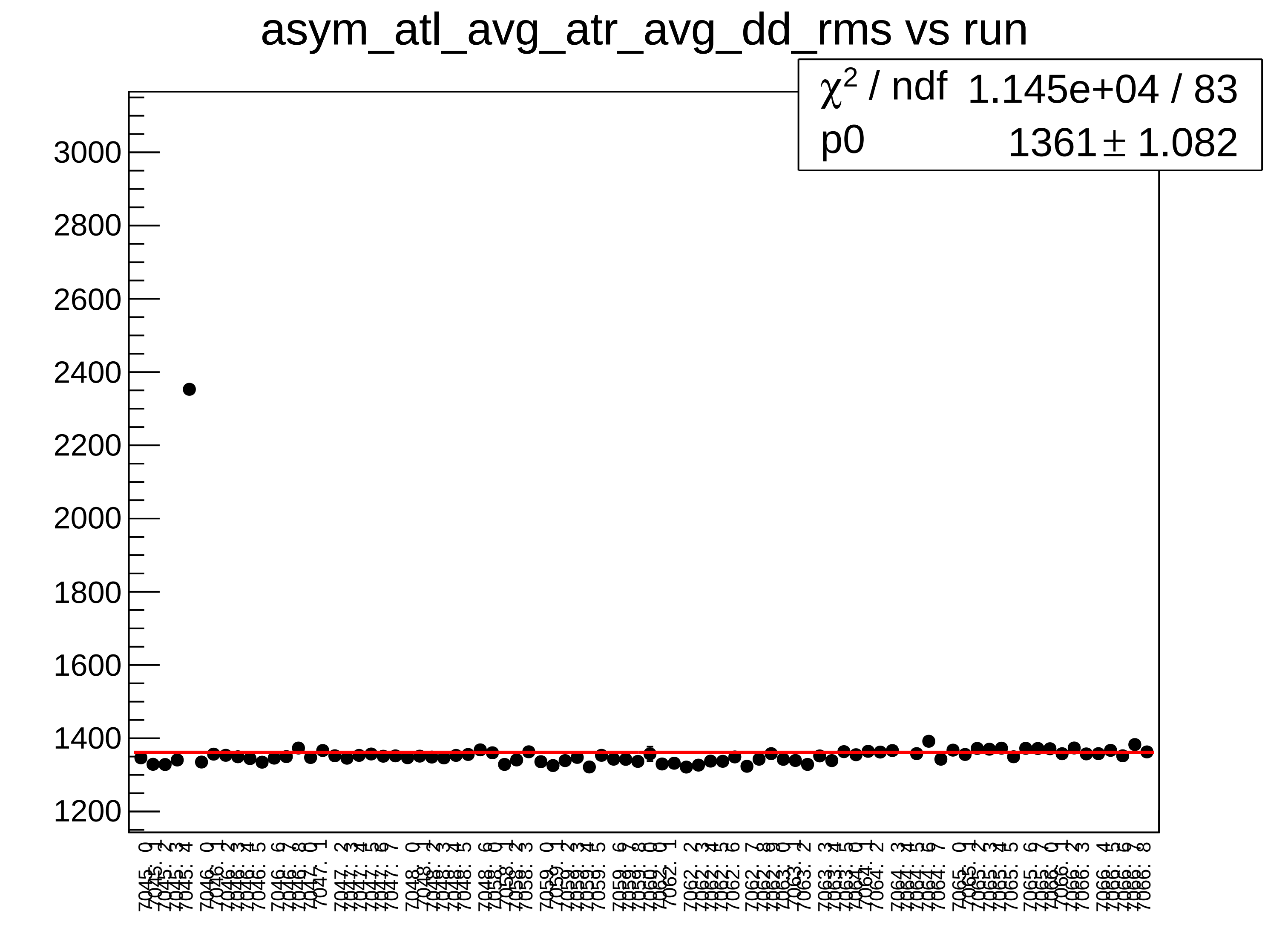

reg_asym_atl_avg_atr_avg_dd_rms vs run
$\chi^2$ / ndf 1.145e+04 / 83
p0 1361 ± 1.082

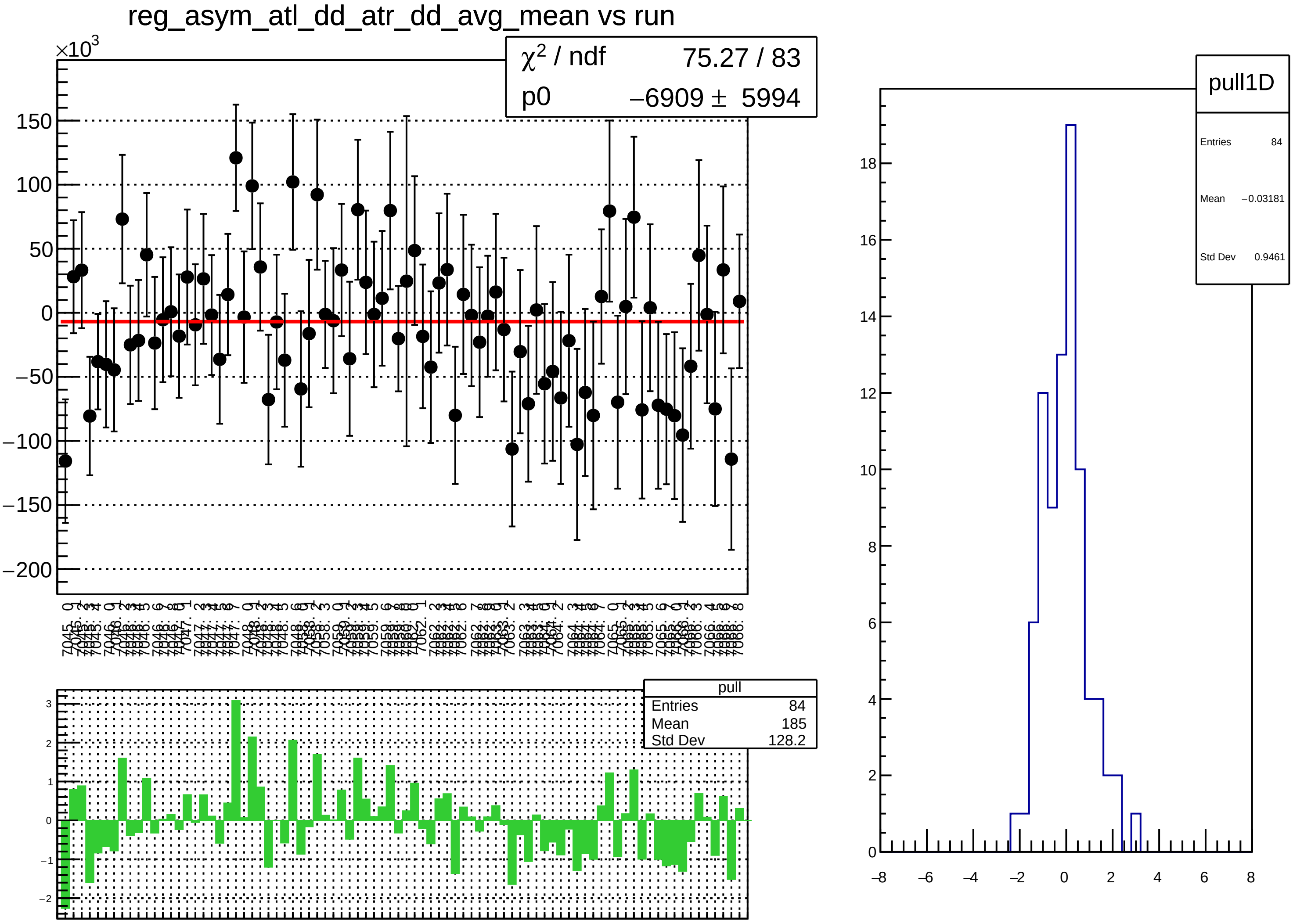

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ2 / ndf 0 / 83
p0 0 ± 0.1091
pull1D
Entries 84
Mean 0
Std Dev 0

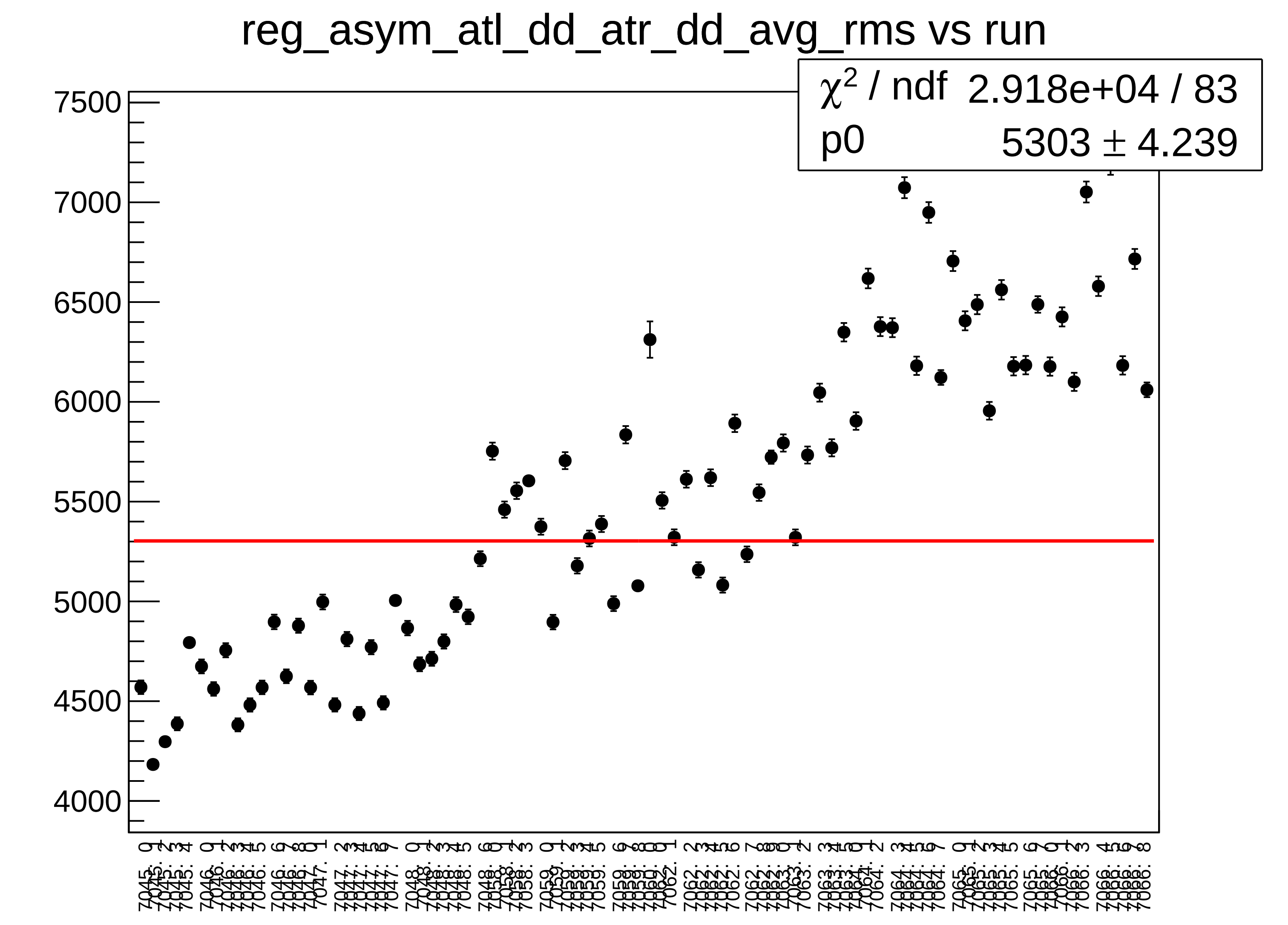

asym_atl_avg_atr_avg_dd_correction_rms vs run
$\chi^2$ / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0



asym_atl_avg_atr_avg_dd_mean vs run
$\chi^2$ / ndf 87.23 / 83
p0 3042 ± 1530
pull
Entries 84
Mean −2223
Std Dev 2278
pull1D
Entries 84
Mean −0.001302
Std Dev 1.019

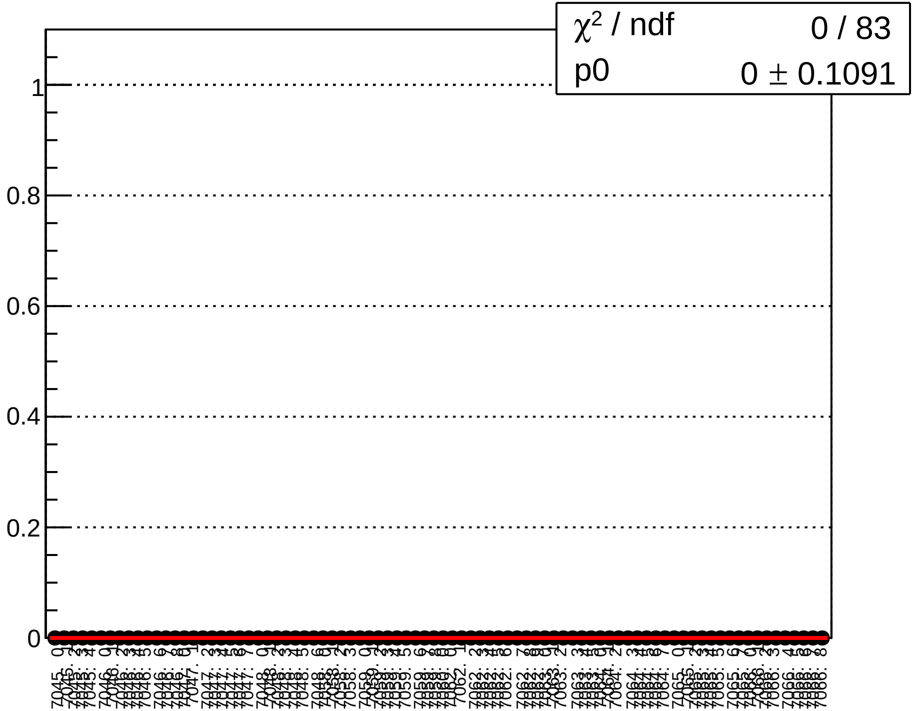

asym_atl_avg_atr_avg_dd_rms vs run
χ2 / ndf 1.145e+04 / 83
p0 1361 ± 1.082

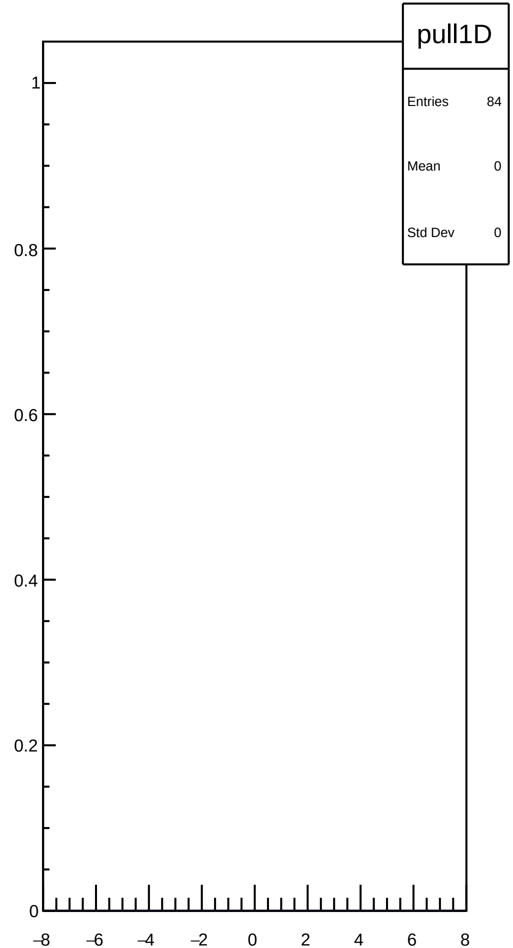

reg_asym_atl_dd_atr_dd_avg_mean vs run
$\chi^2$ / ndf 75.27 / 83
p0 −6909 ± 5994
pull
Entries 84
Mean 185
Std Dev 128.2
pull1D
Entries 84
Mean −0.03181
Std Dev 0.9461

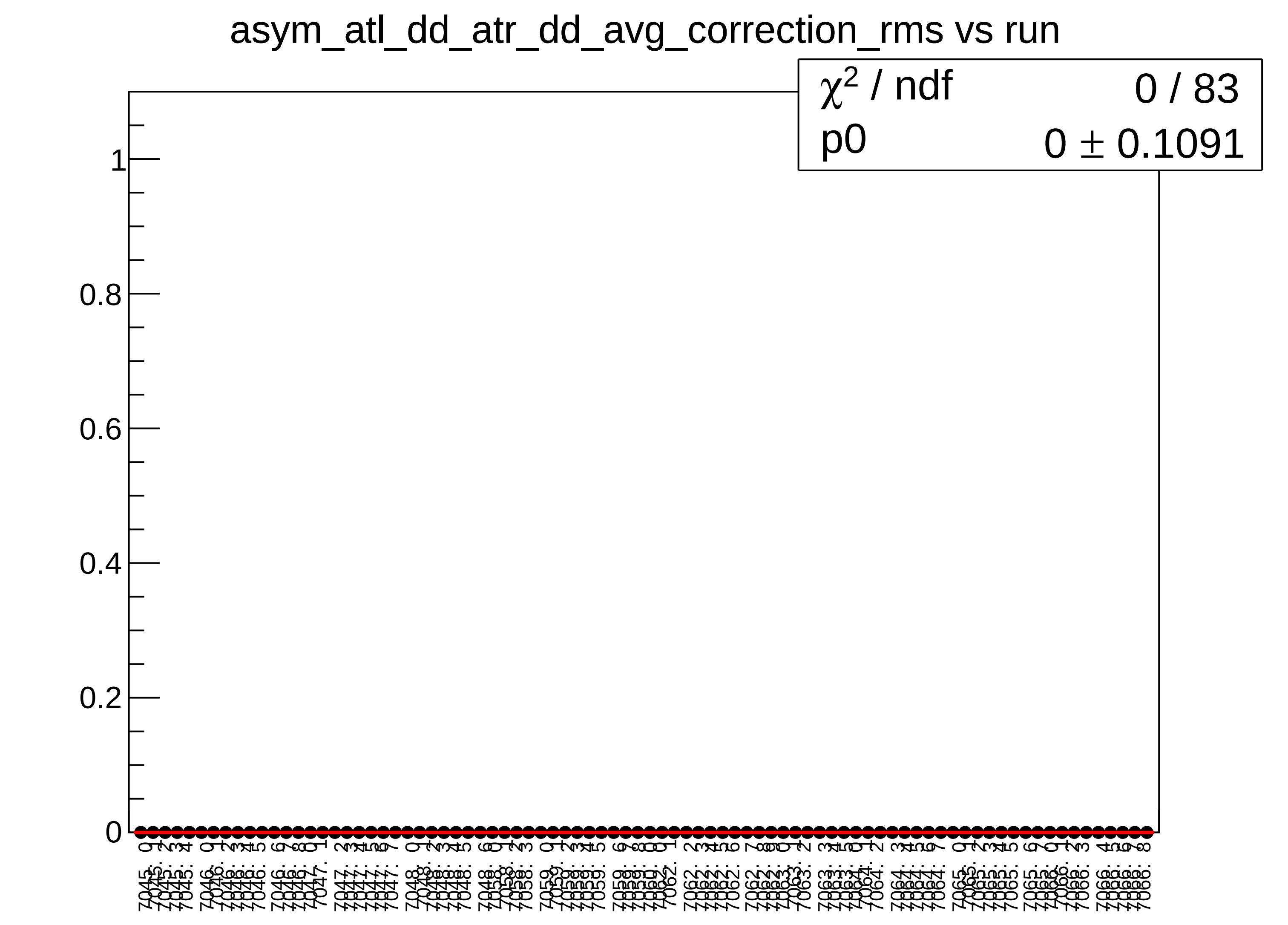


reg_asym_atl_dd_atr_dd_avg_rms vs run
$\chi^2$ / ndf 2.918e+04 / 83
p0 5303 ± 4.239
7500
7000
6500
6000
5500
5000
4500
4000

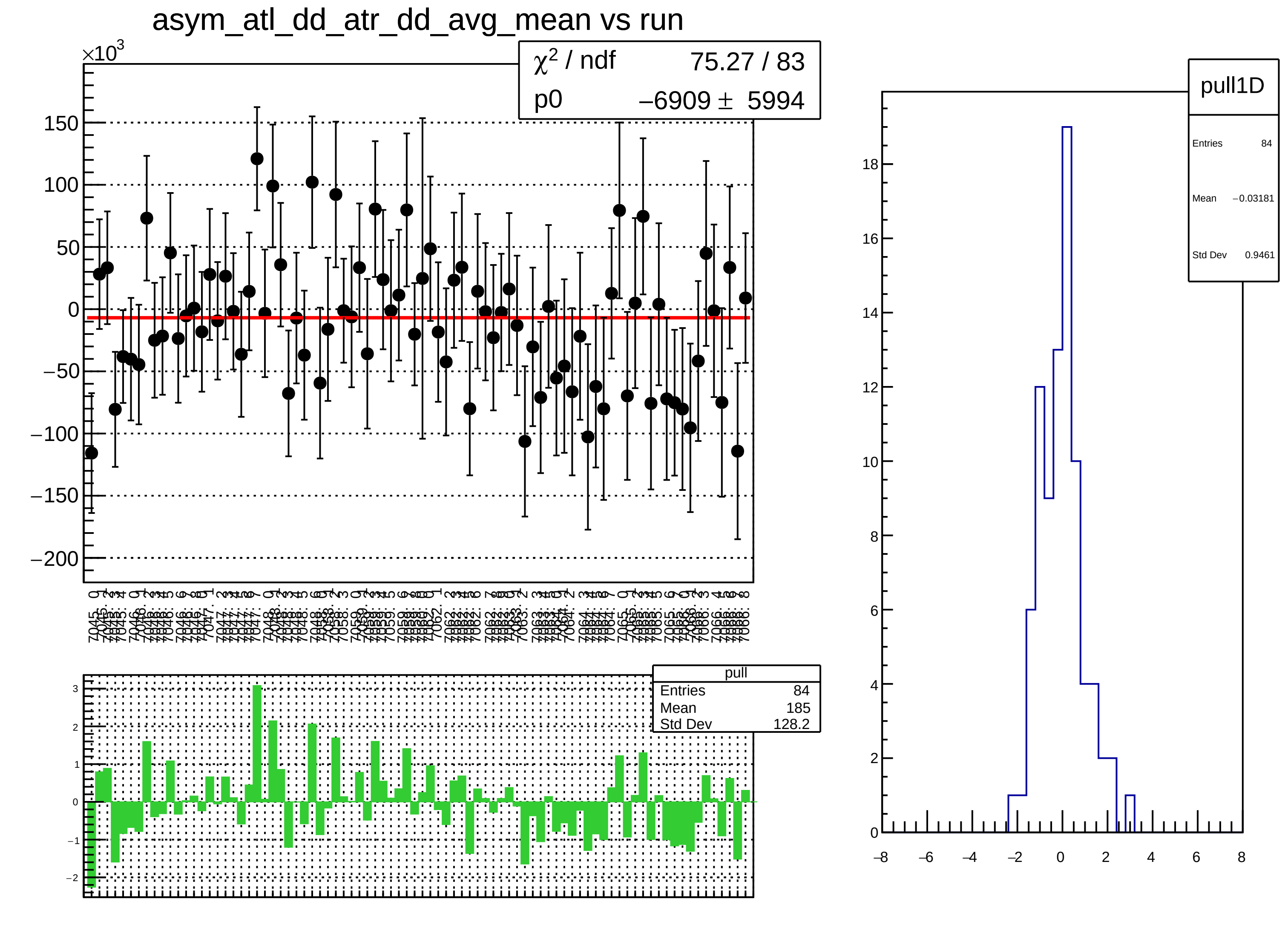
asym_atl_dd_atr_dd_avg_correction_mean vs run



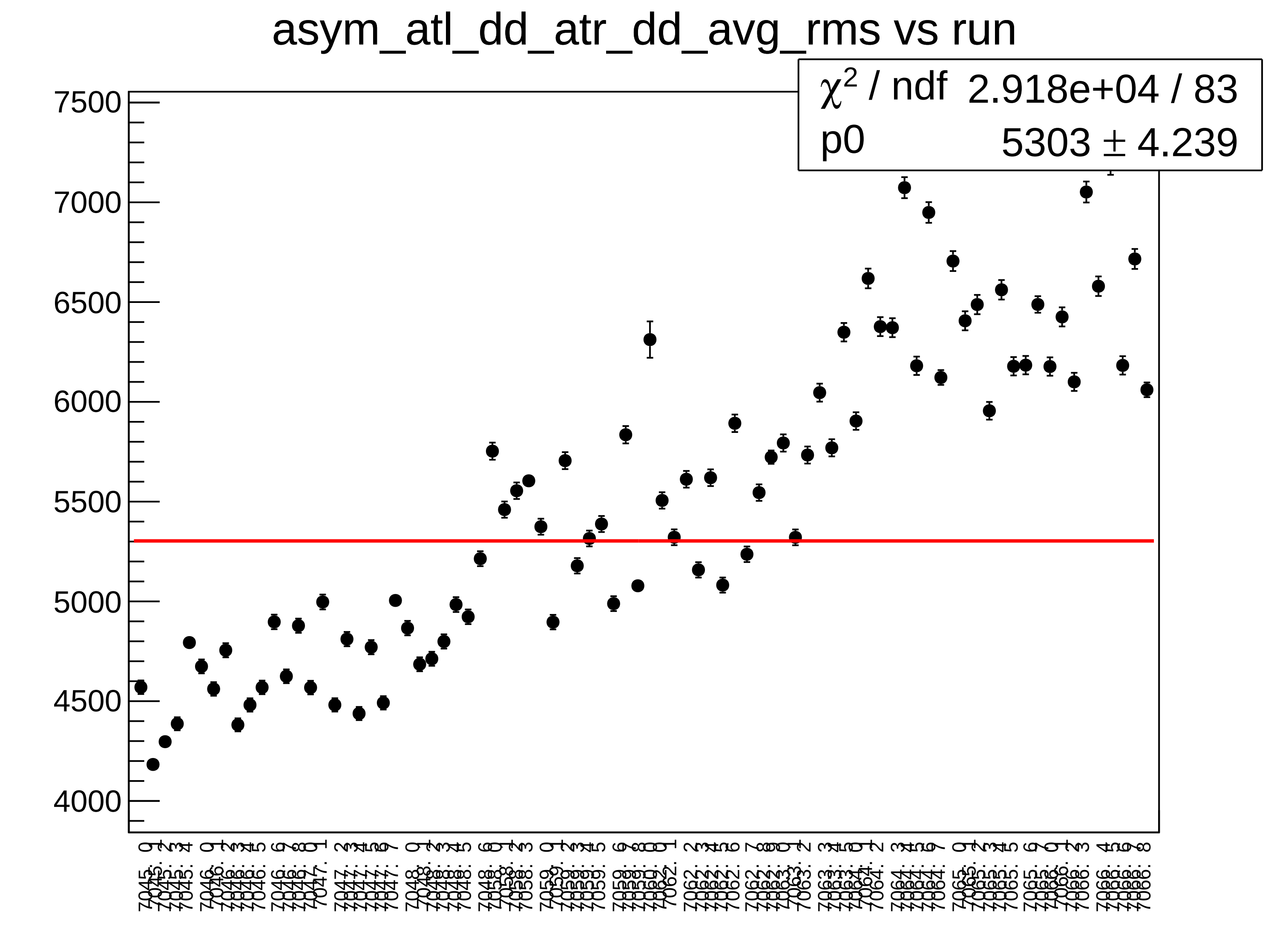





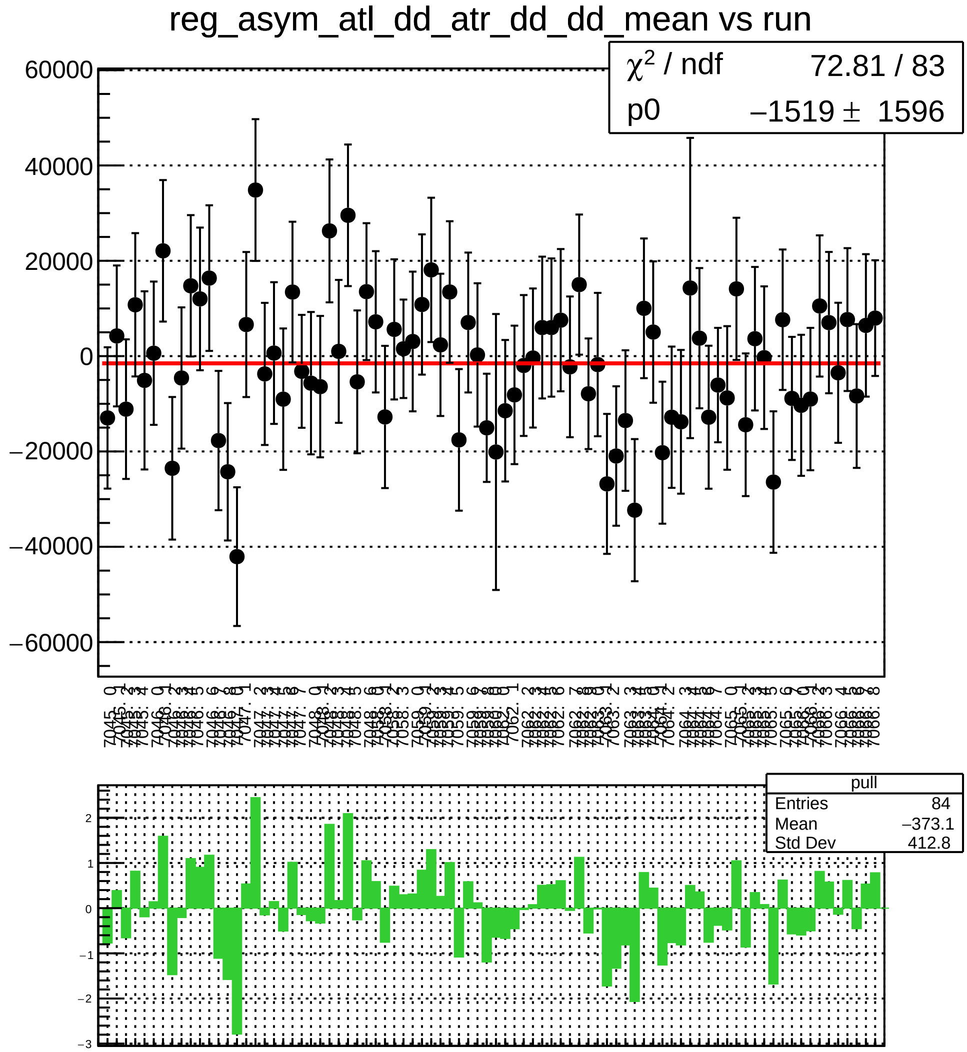
asym_atl_dd_atr_dd_avg_correction_rms vs run
χ2 / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

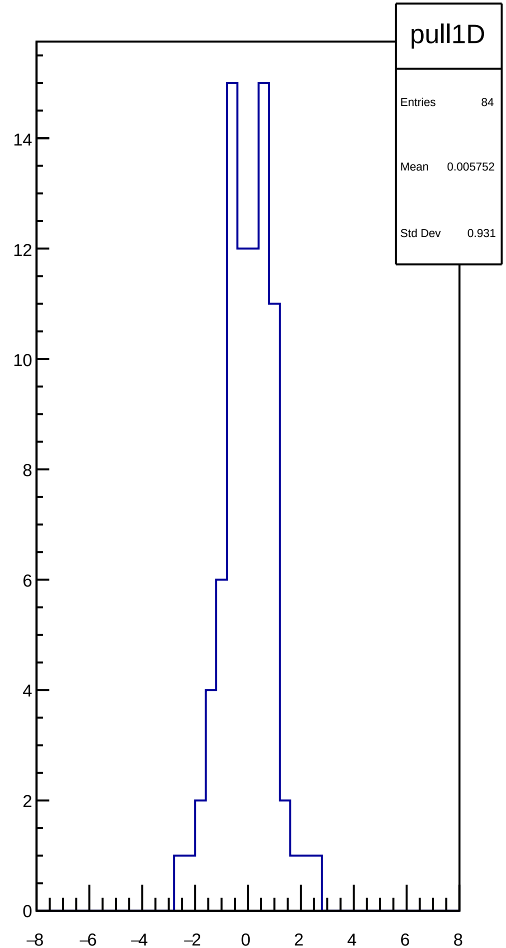


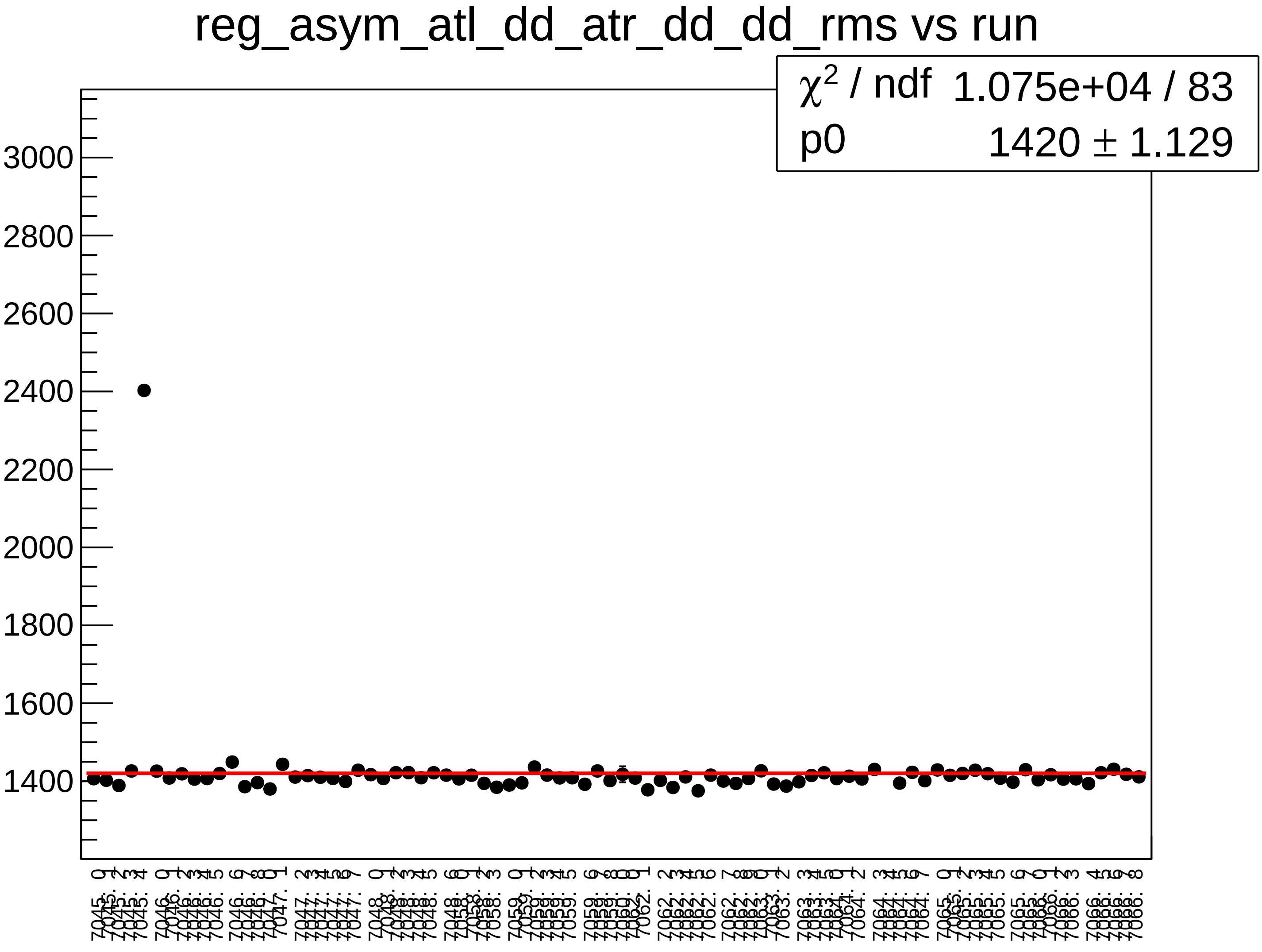
asym_atl_dd_atr_dd_avg_mean vs run
$\times10^{3}$
$\chi^2$ / ndf 75.27 / 83
p0 −6909 ± 5994
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 185
Std Dev 128.2
pull1D
Entries 84
Mean −0.03181
Std Dev 0.9461



asym_atl_dd_atr_dd_avg_rms vs run
$\chi^2$ / ndf 2.918e+04 / 83
p0 5303 ± 4.239
7500
7000
6500
6000
5500
5000
4500
4000

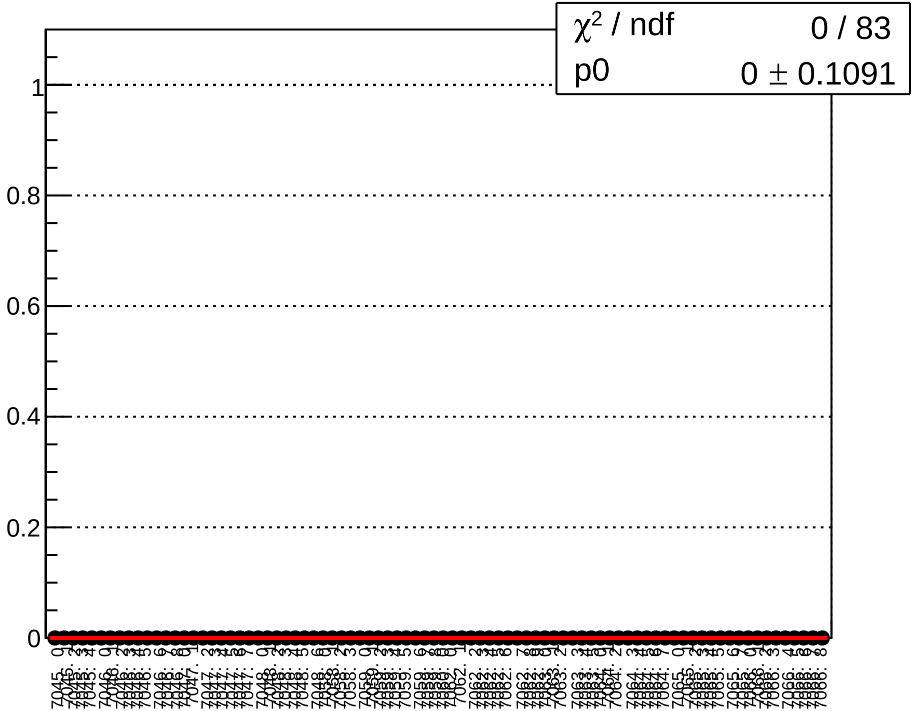

reg_asym_atl_dd_atr_dd_dd_mean vs run
$\chi^2$ / ndf 72.81 / 83
p0 −1519 ± 1596
pull
Entries 84
Mean −373.1
Std Dev 412.8

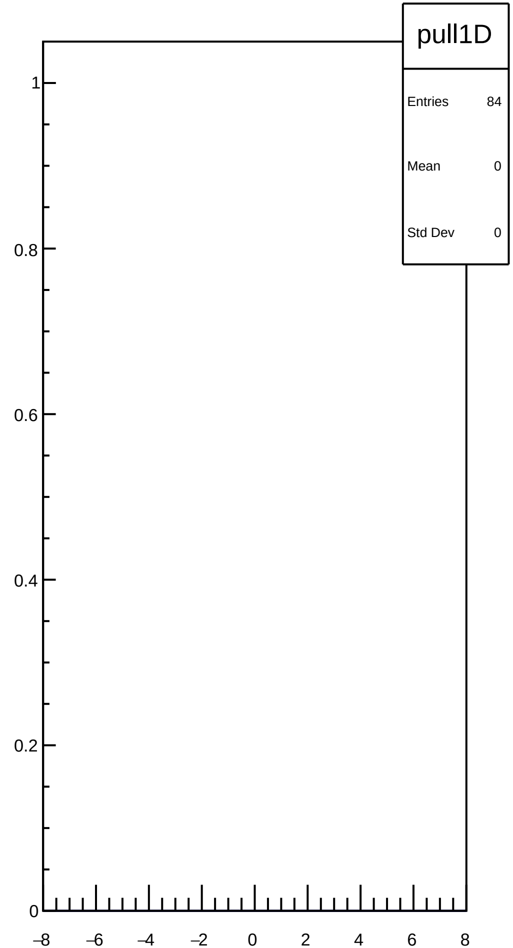

pull1D
Entries 84
Mean 0.005752
Std Dev 0.931

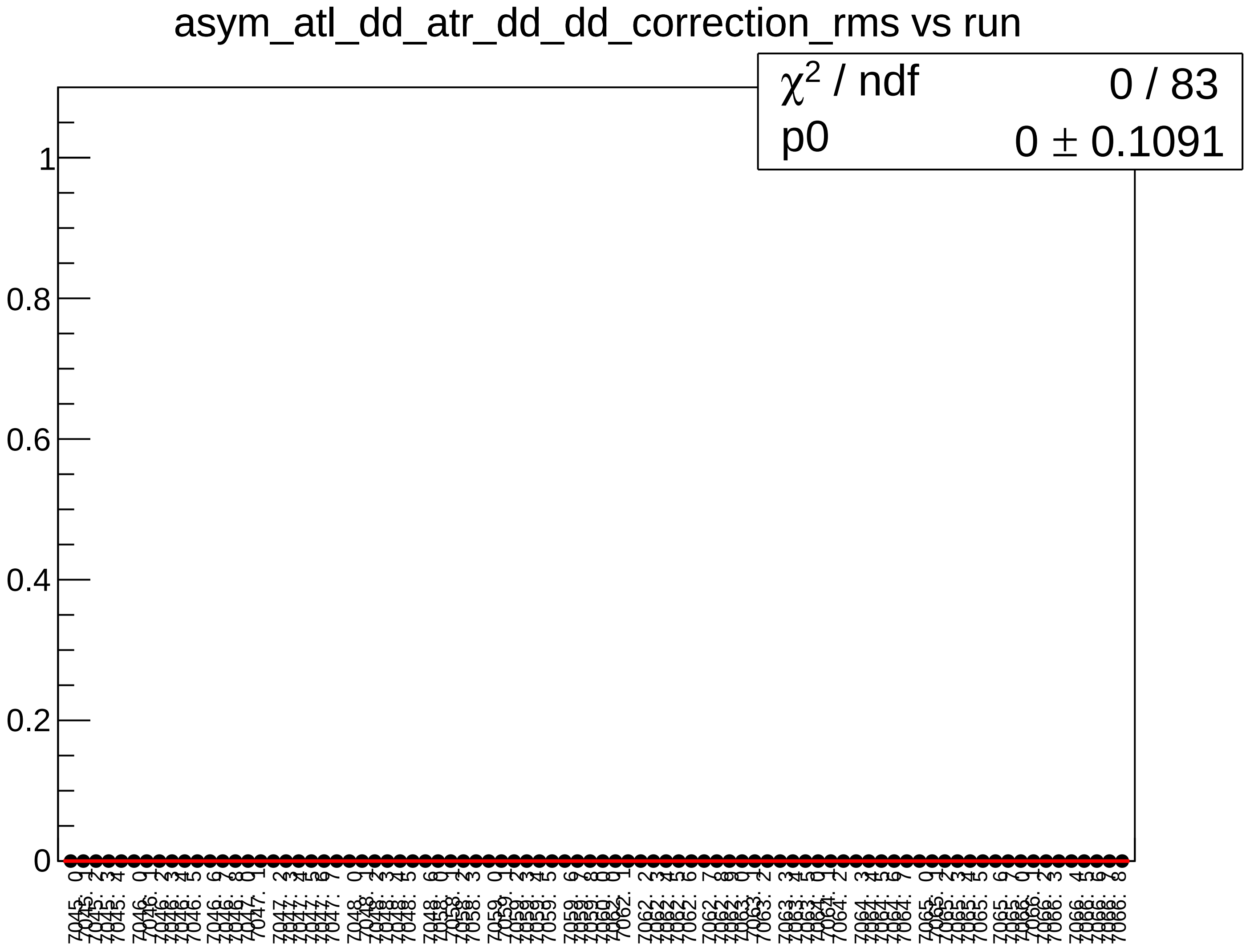


reg_asym_atl_dd_atr_dd_dd_rms vs run
χ2 / ndf 1.075e+04 / 83
p0 1420 ± 1.129
3000
2800
2600
2400
2200
2000
1800
1600
1400

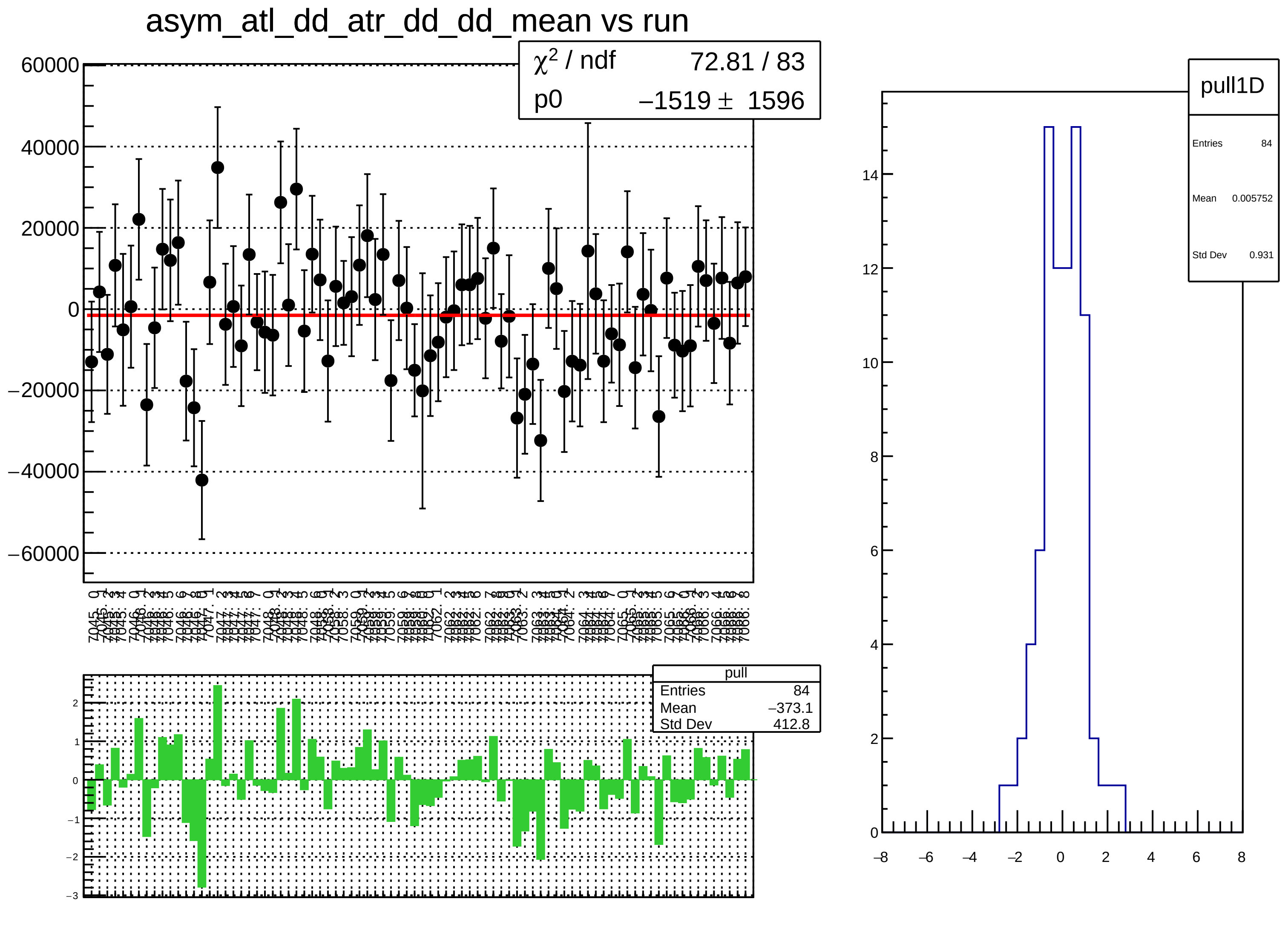
asym_atl_dd_atr_dd_dd_correction_mean vs run

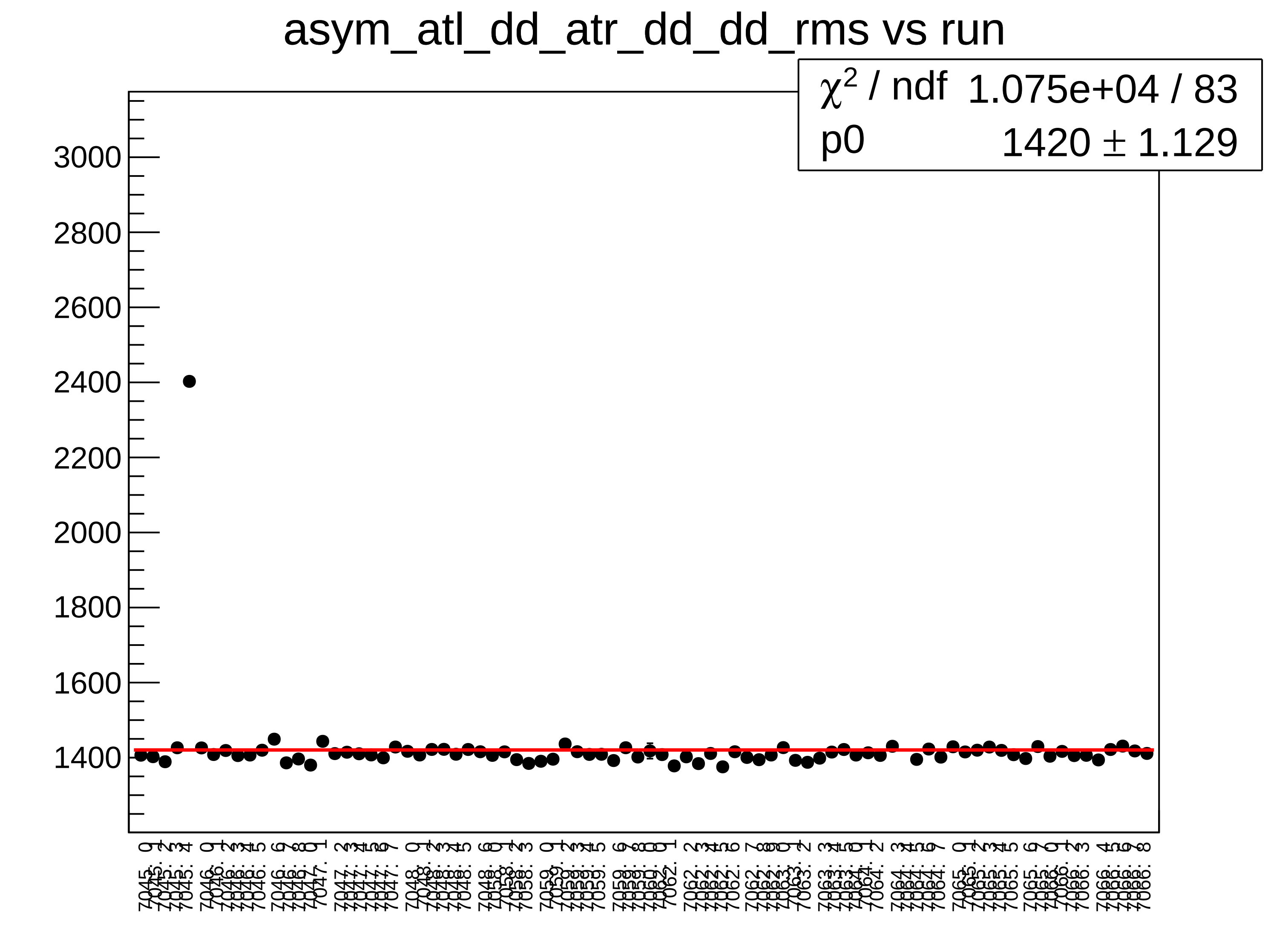


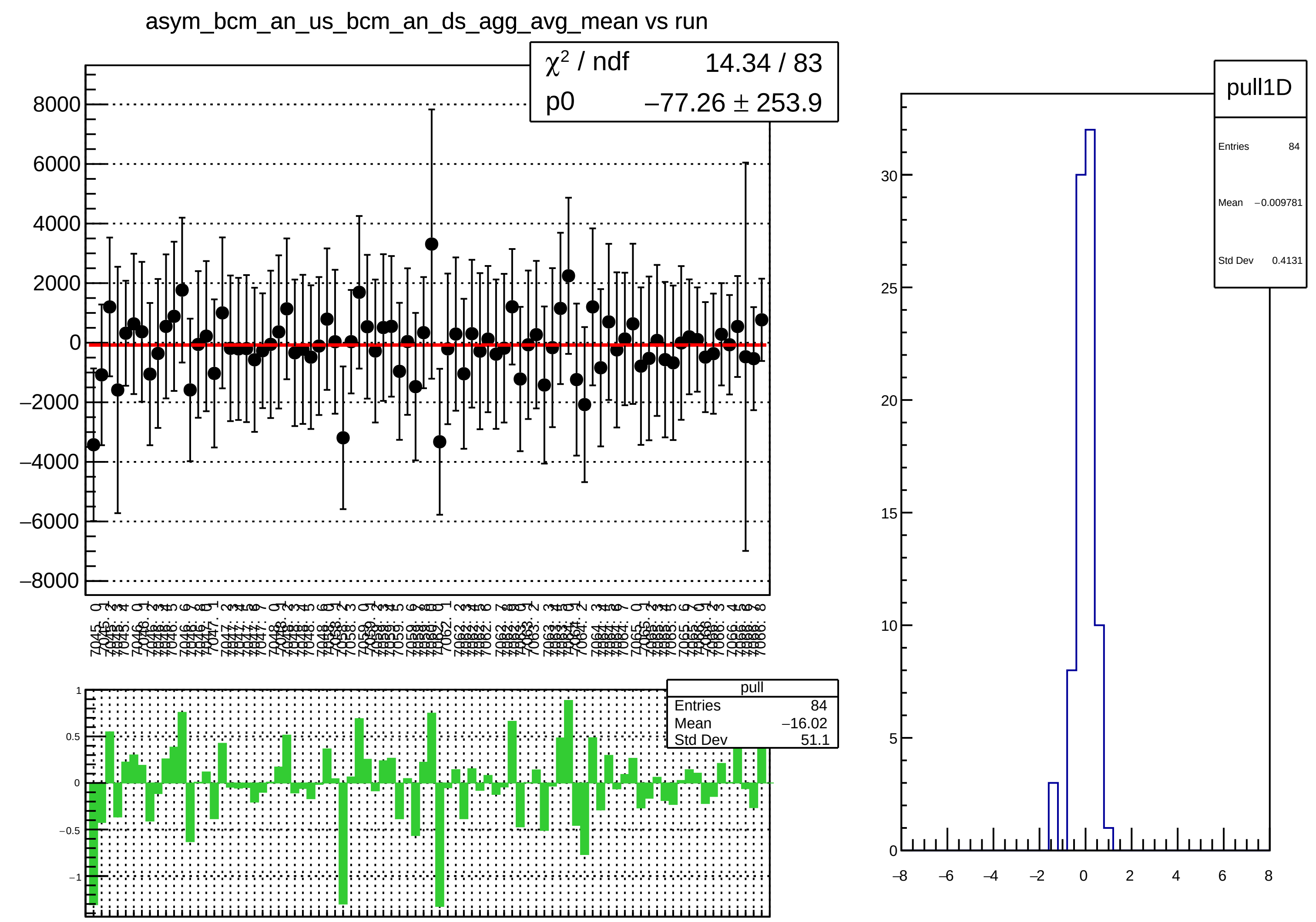





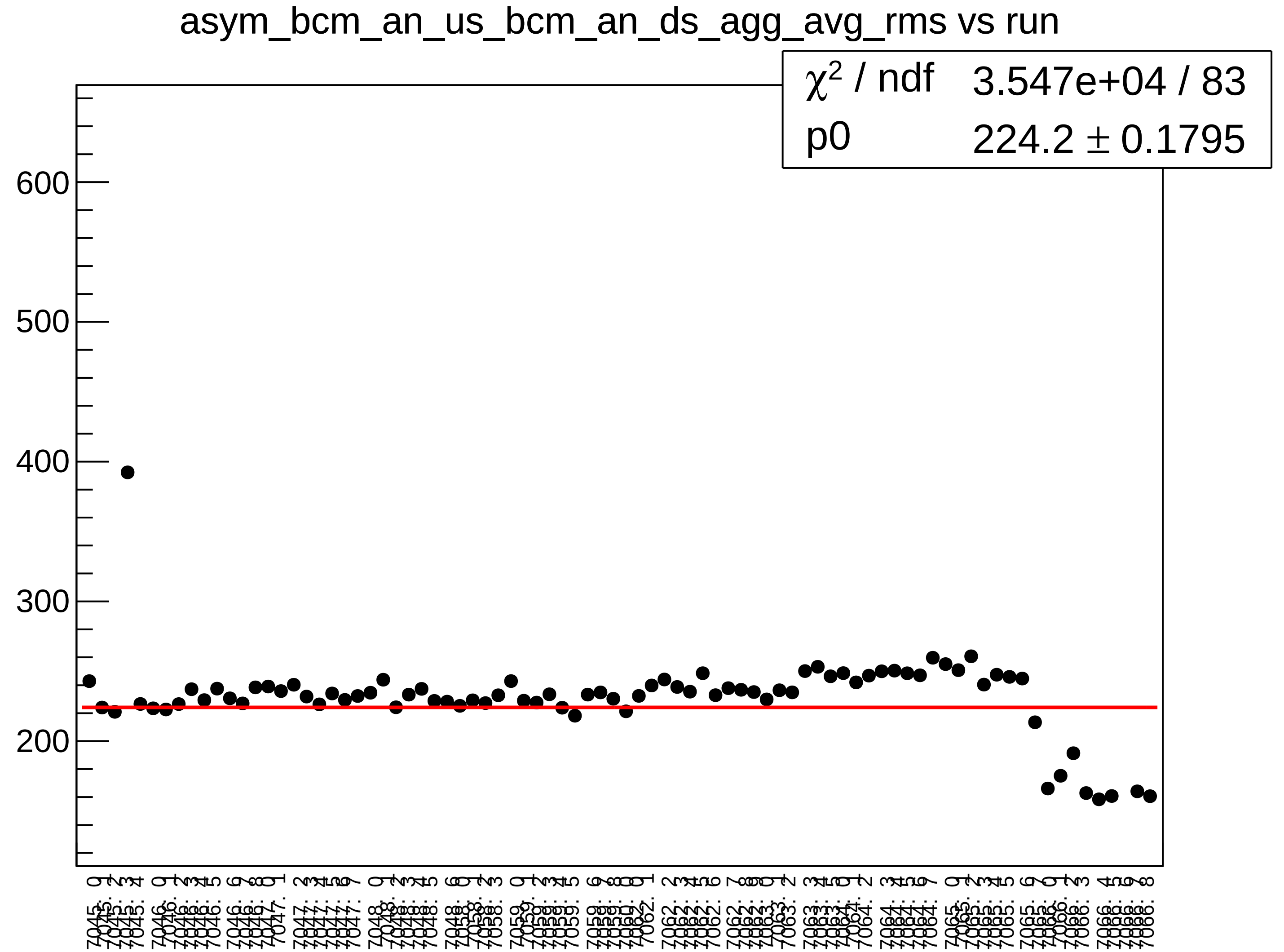
asym_atl_dd_atr_dd_dd_correction_rms vs run
$\chi^2$ / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

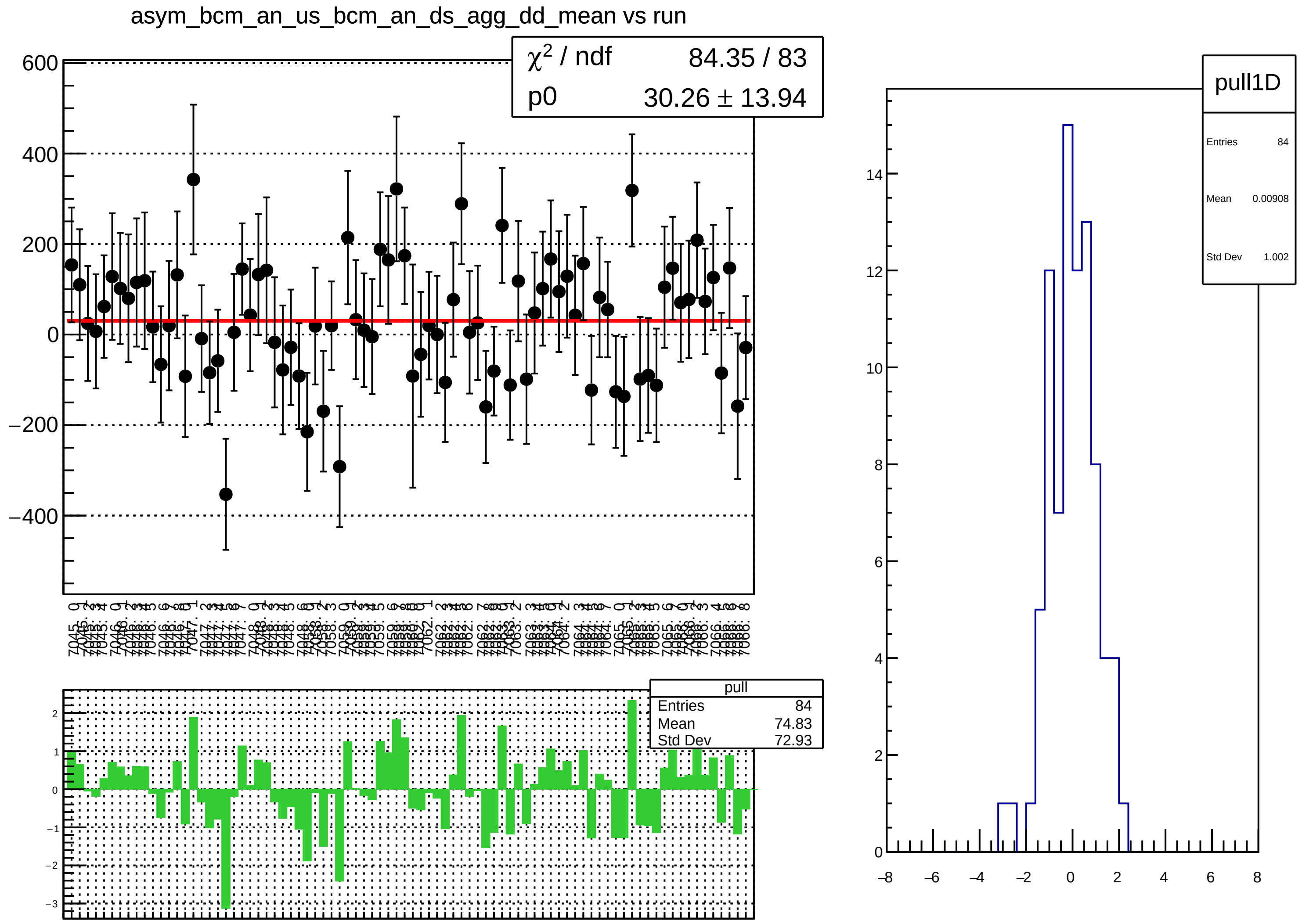

asym_atl_dd_atr_dd_dd_mean vs run
$\chi^2$ / ndf 72.81 / 83
p0 −1519 ± 1596
pull
Entries 84
Mean −373.1
Std Dev 412.8
pull1D
Entries 84
Mean 0.005752
Std Dev 0.931


asym_atl_dd_atr_dd_dd_rms vs run
$\chi^2$ / ndf 1.075e+04 / 83
p0 1420 ± 1.129

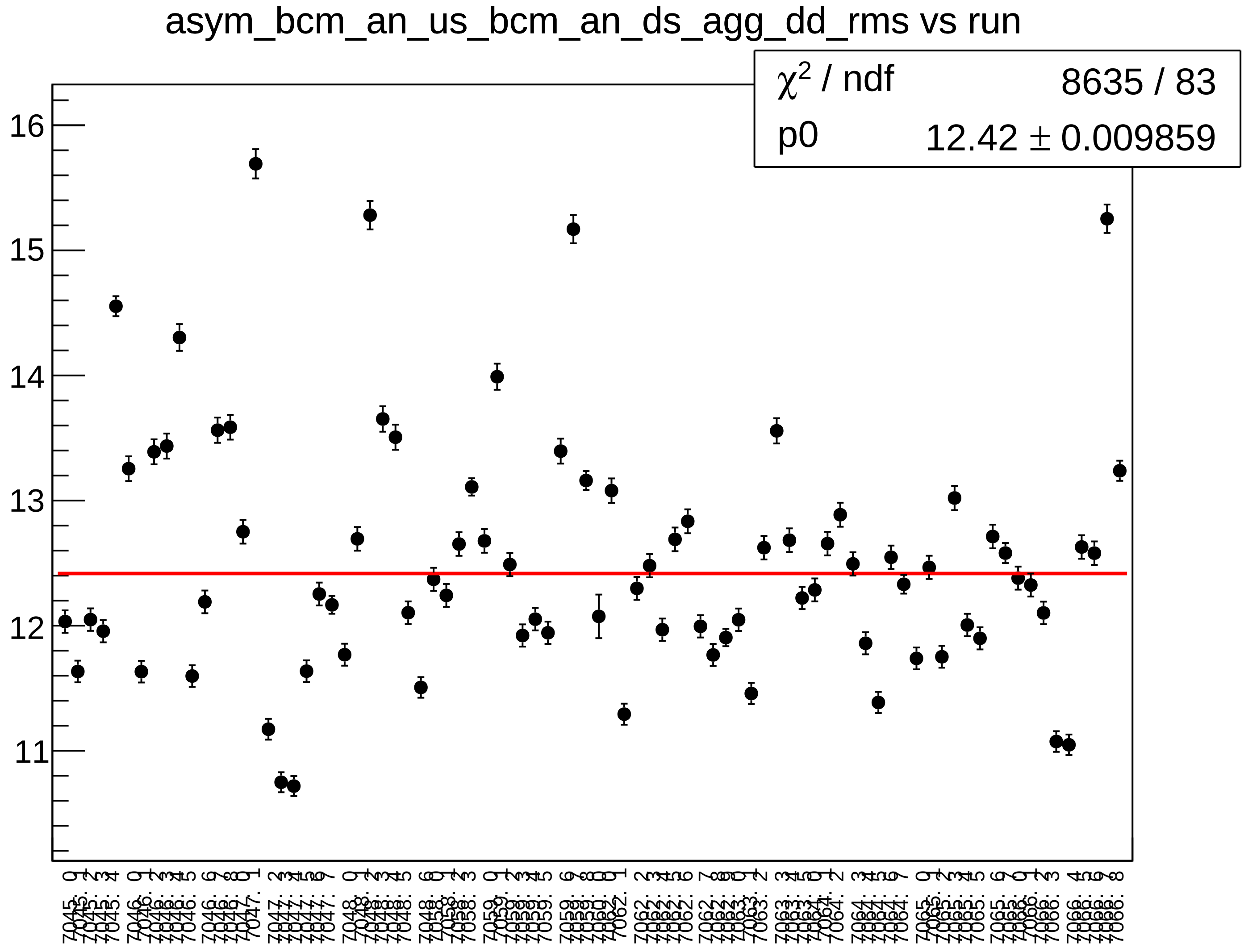


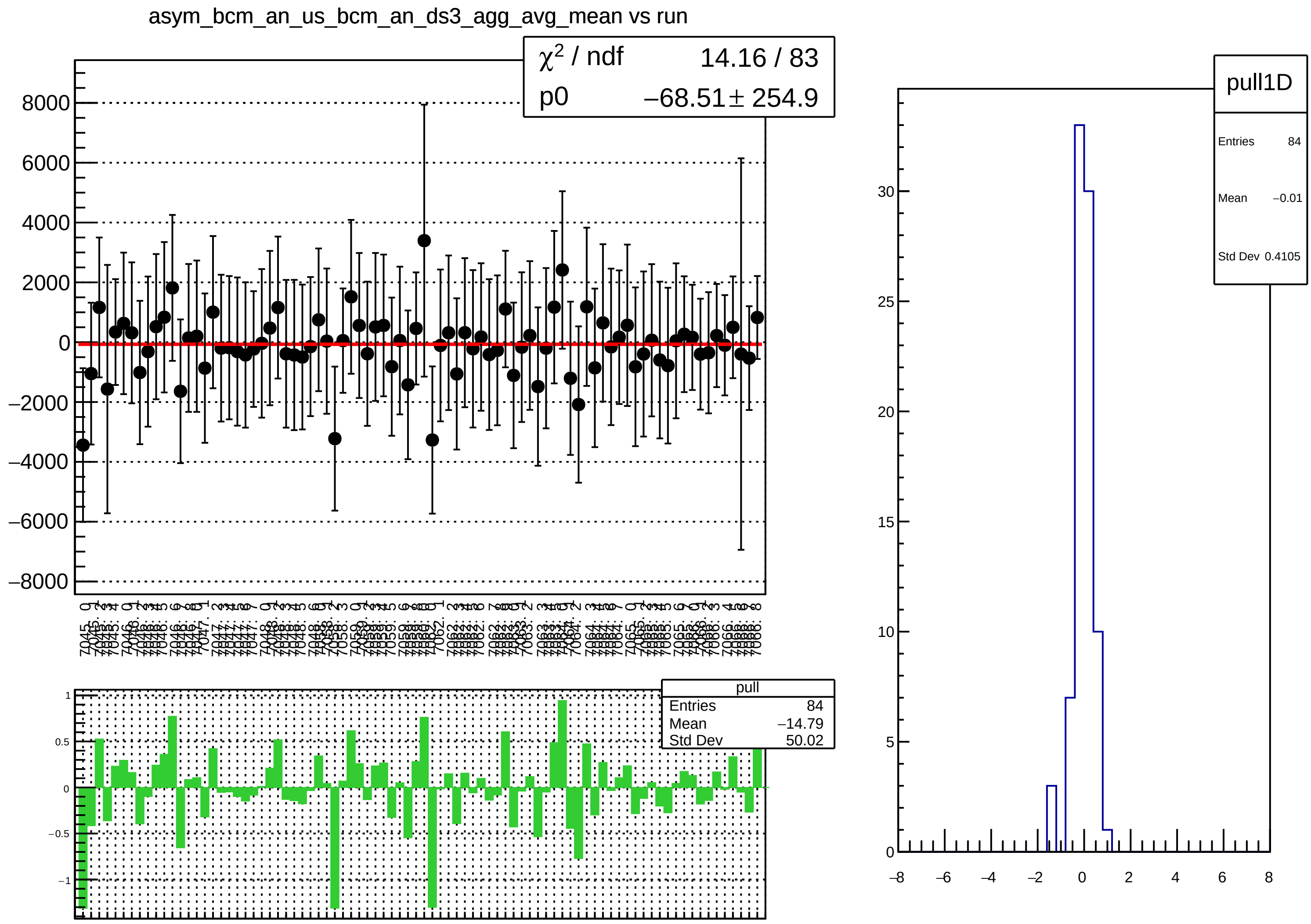
asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
$\chi^2$ / ndf 14.34 / 83
p0 −77.26 ± 253.9
pull
Entries 84
Mean −16.02
Std Dev 51.1
pull1D
Entries 84
Mean −0.009781
Std Dev 0.4131


asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ2 / ndf 3.547e+04 / 83
p0 224.2 ± 0.1795
600
500
400
300
200

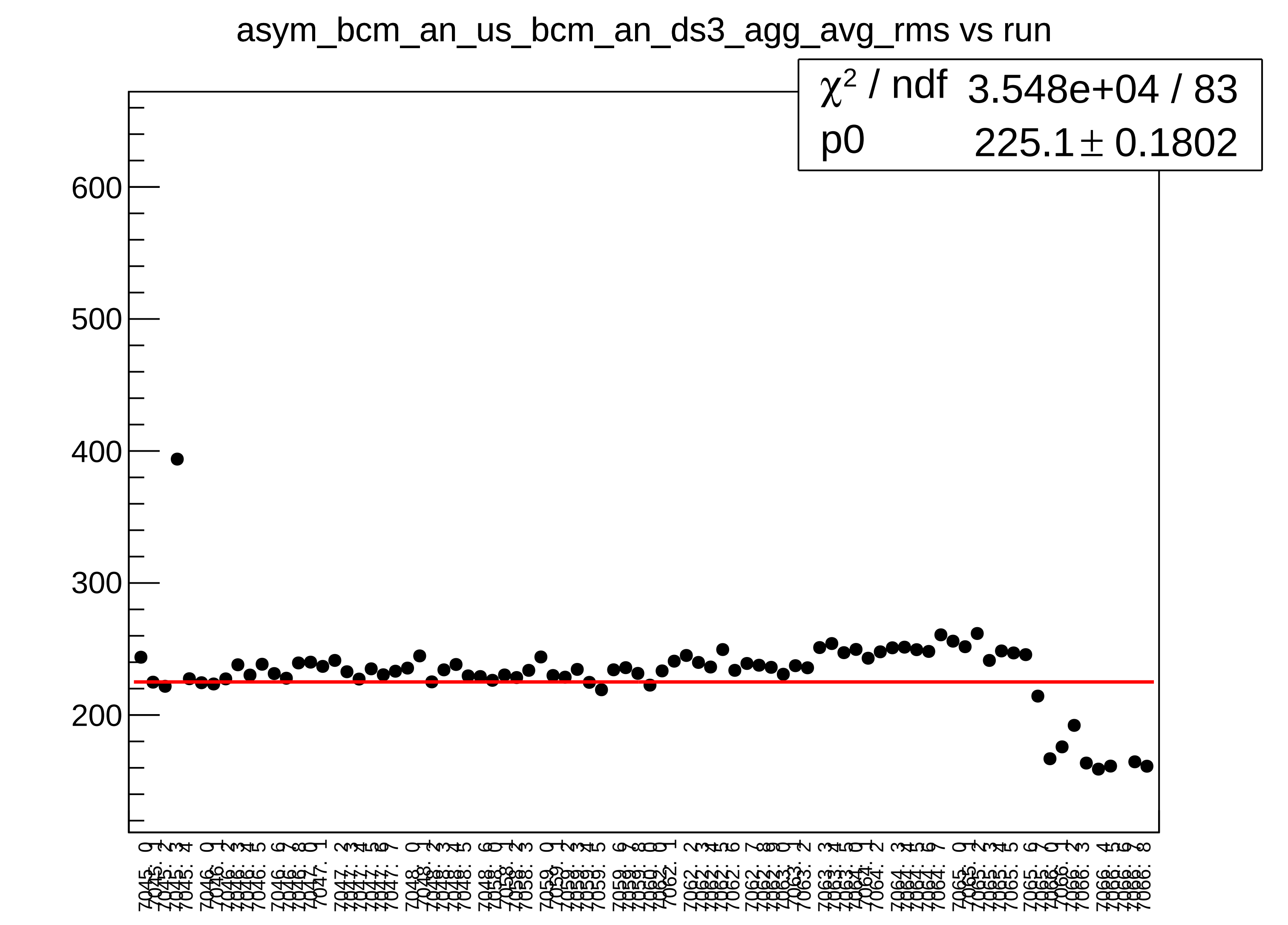


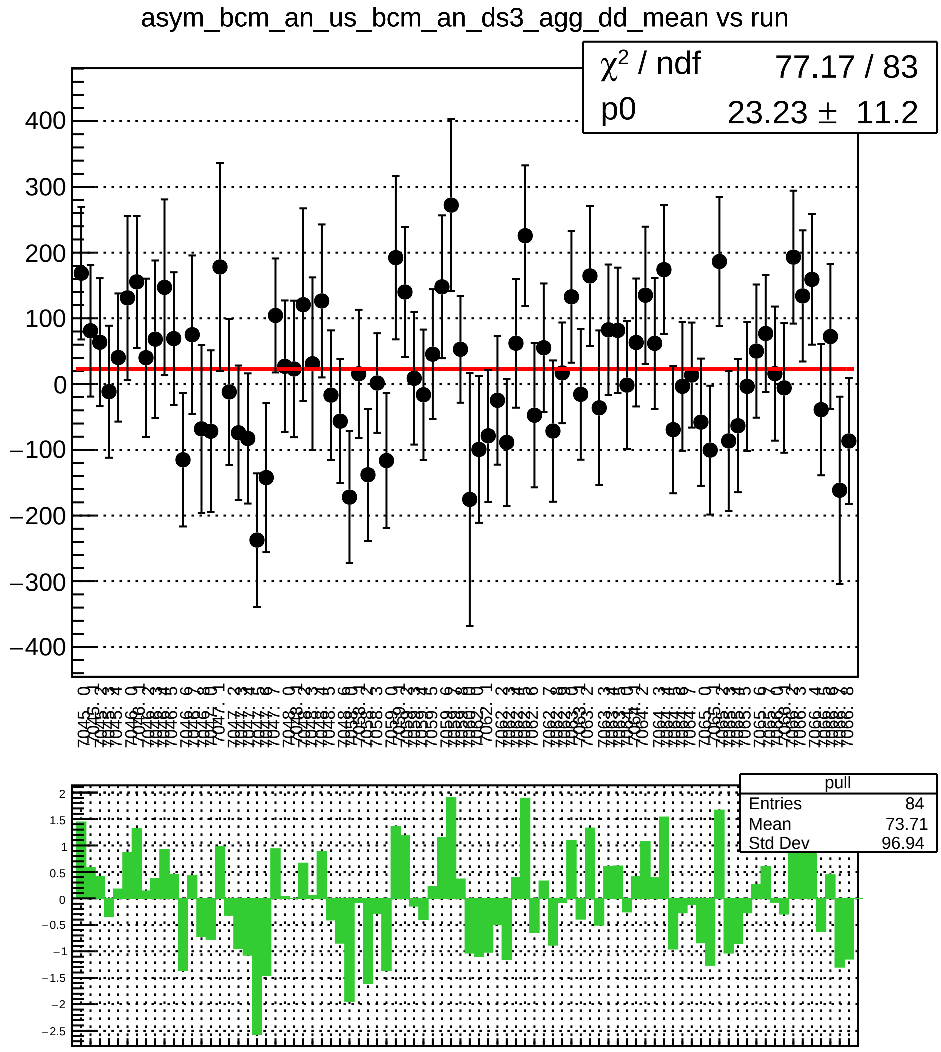
asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ2 / ndf 84.35 / 83
p0 30.26 ± 13.94
pull
Entries 84
Mean 74.83
Std Dev 72.93
pull1D
Entries 84
Mean 0.00908
Std Dev 1.002


asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ2 / ndf 8635 / 83
p0 12.42 ± 0.009859

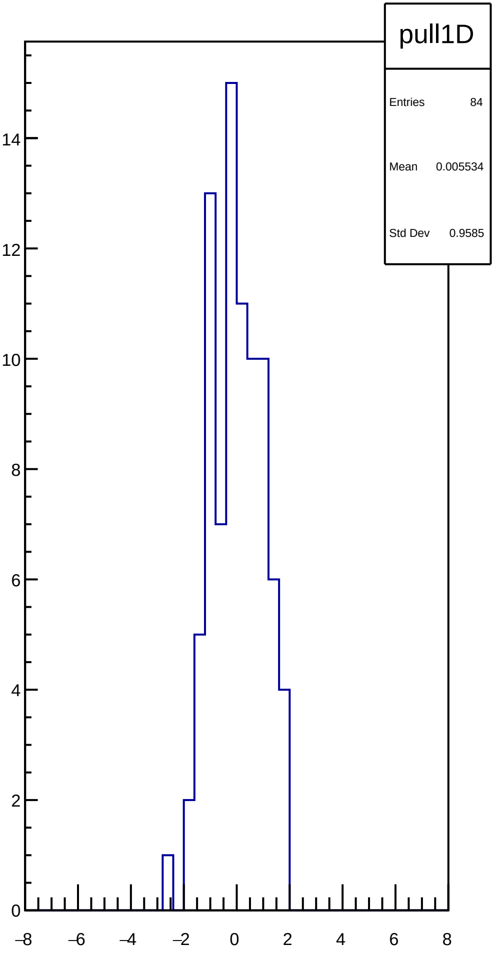


asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
$\chi^2$ / ndf 14.16 / 83
p0 −68.51 ± 254.9
pull
Entries 84
Mean −14.79
Std Dev 50.02
pull1D
Entries 84
Mean −0.01
Std Dev 0.4105

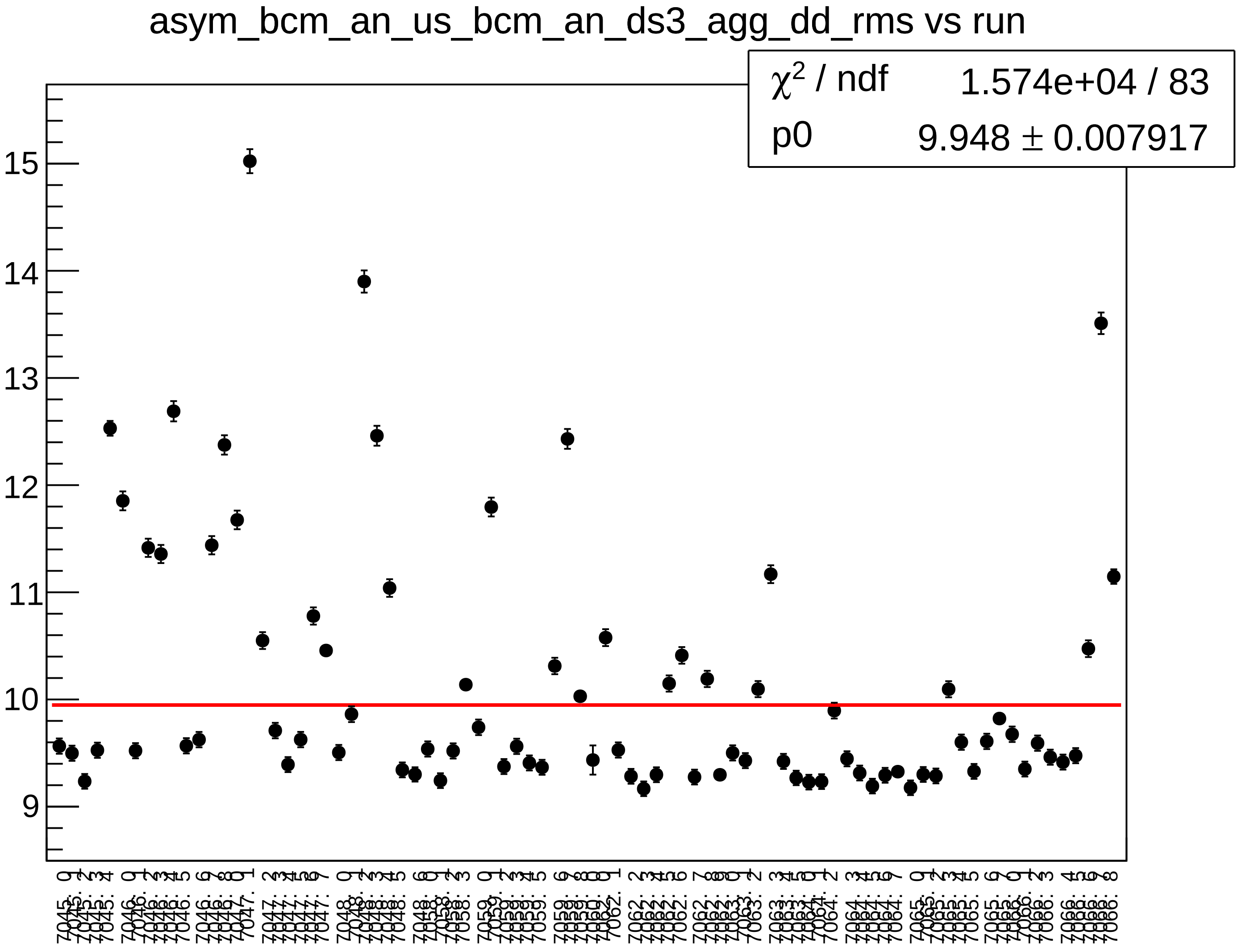

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
$\chi^2$ / ndf 3.548e+04 / 83
p0 225.1 ± 0.1802
600
500
400
300
200

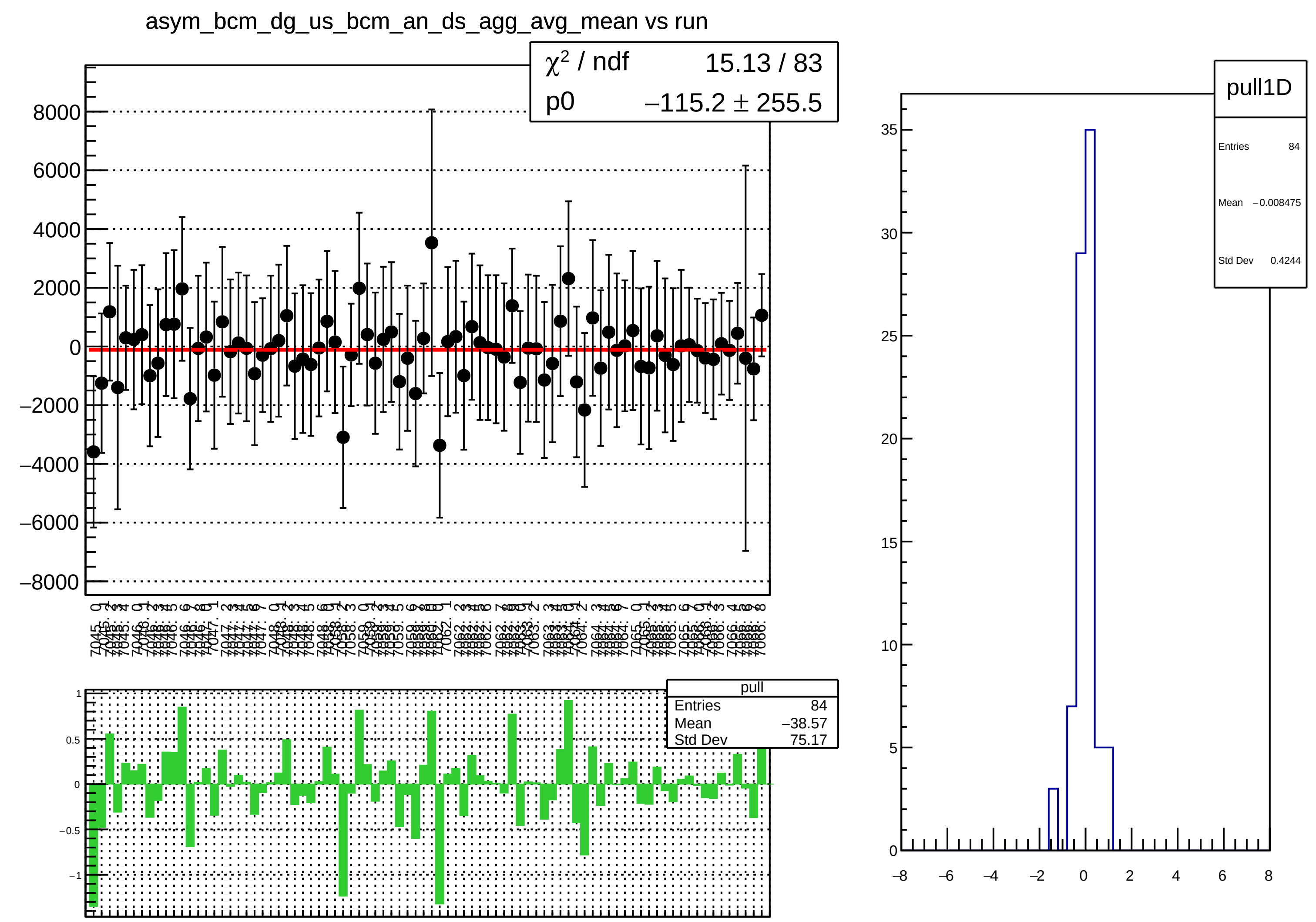


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
$\chi^2$ / ndf 77.17 / 83
p0 23.23 ± 11.2
pull
Entries 84
Mean 73.71
Std Dev 96.94

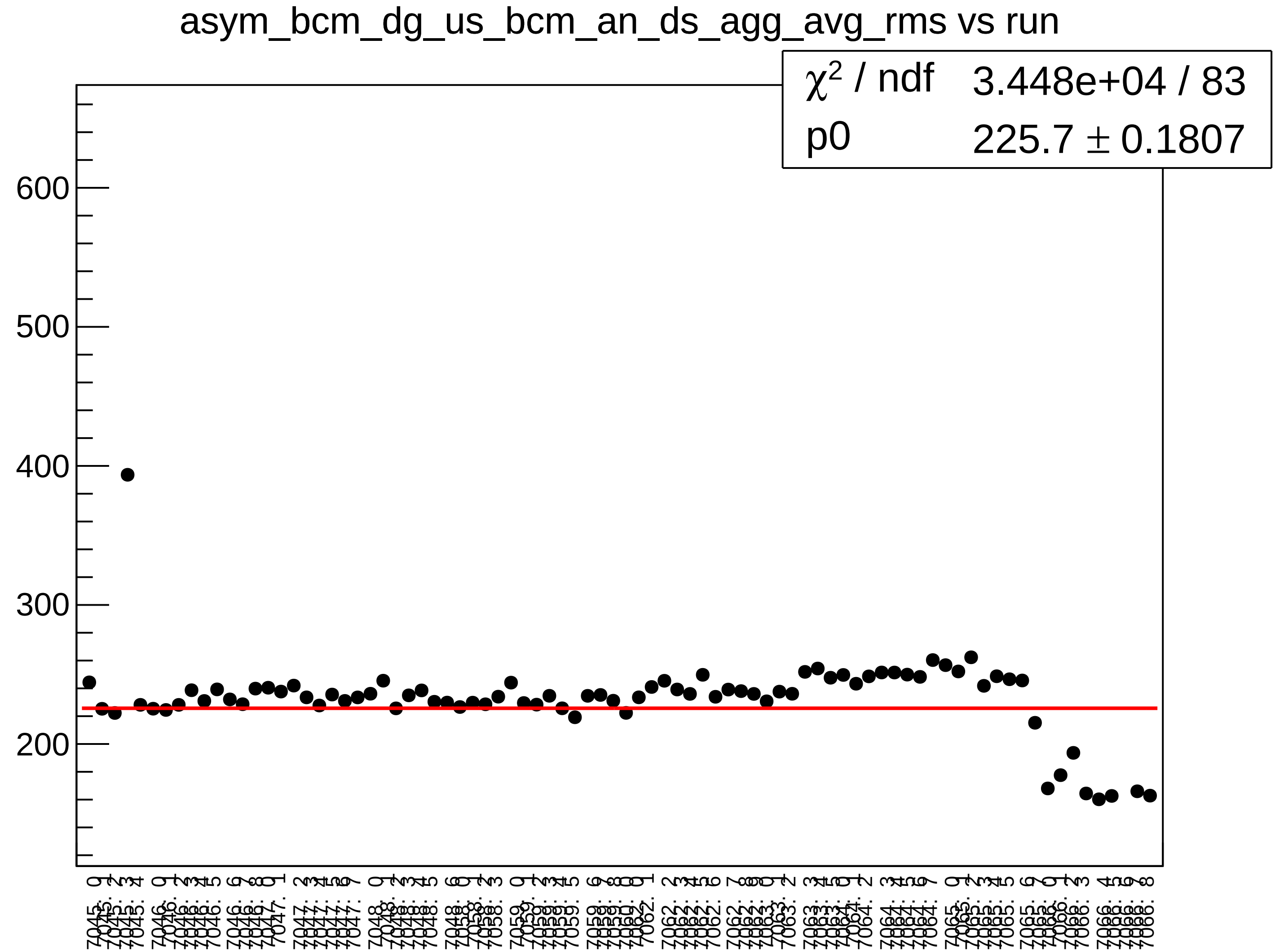



pull1D
Entries 84
Mean 0.005534
Std Dev 0.9585

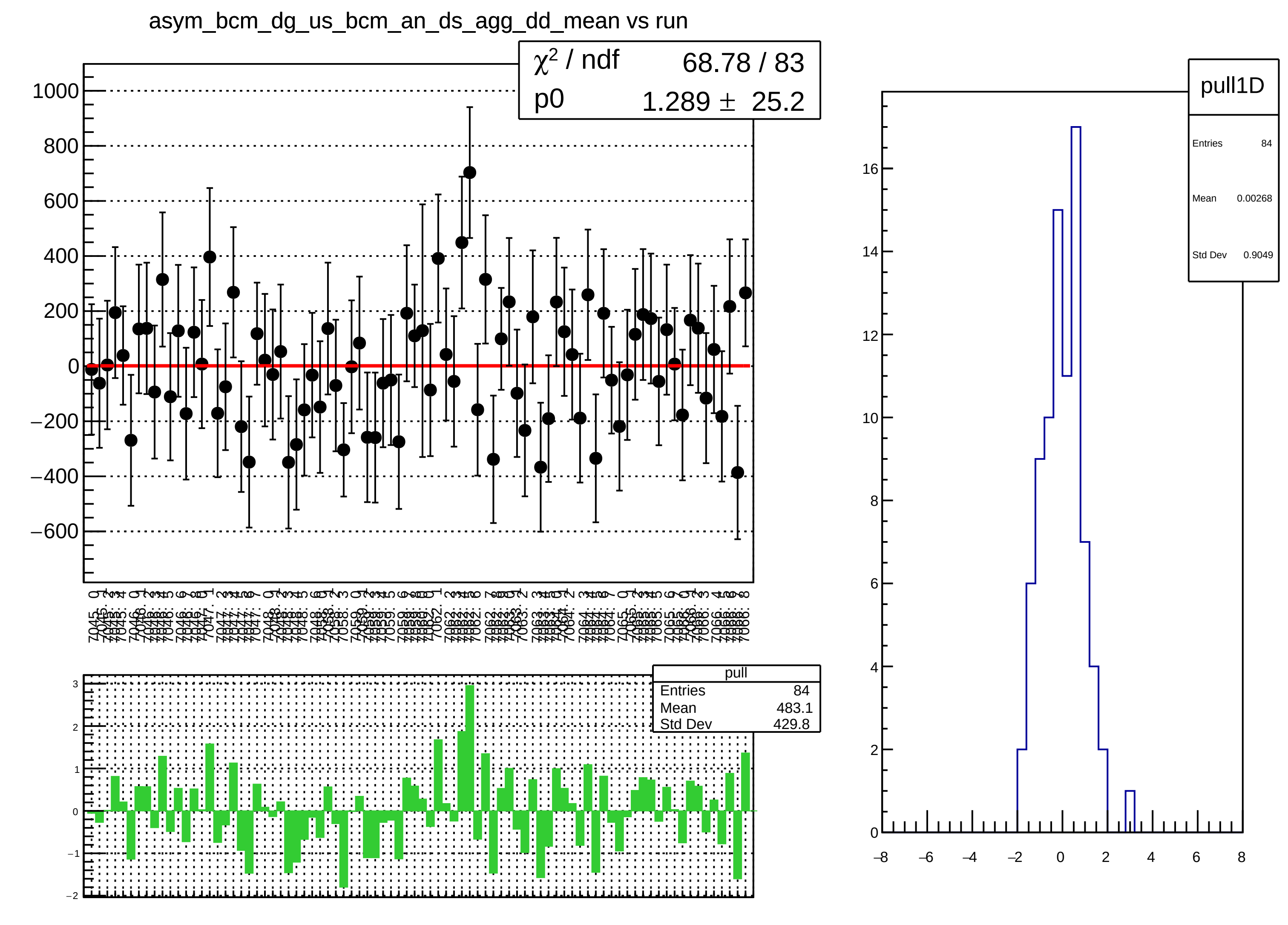

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
$\chi^2$ / ndf 1.574e+04 / 83
p0 9.948 ± 0.007917
15
14
13
12
11
10
9

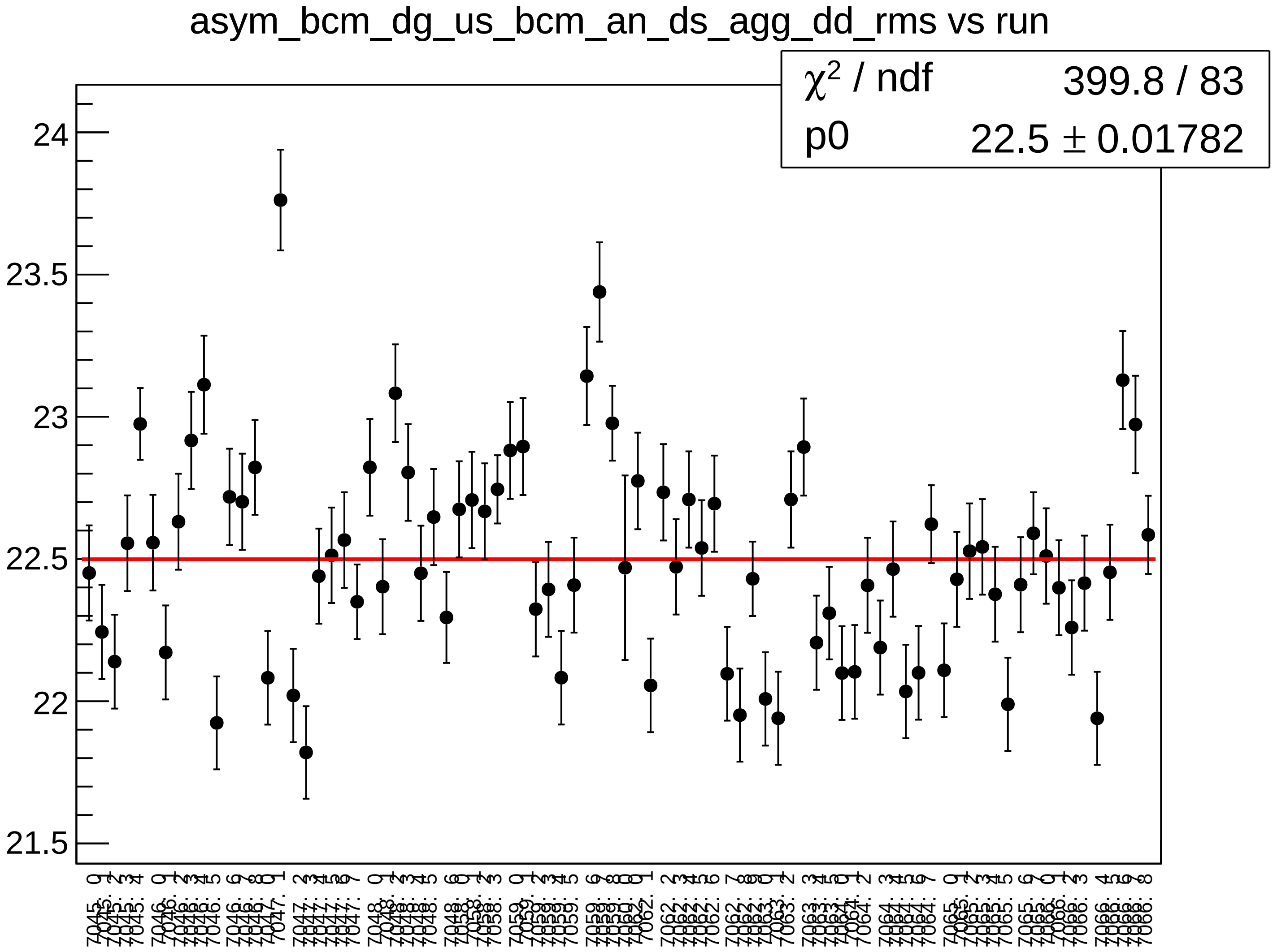


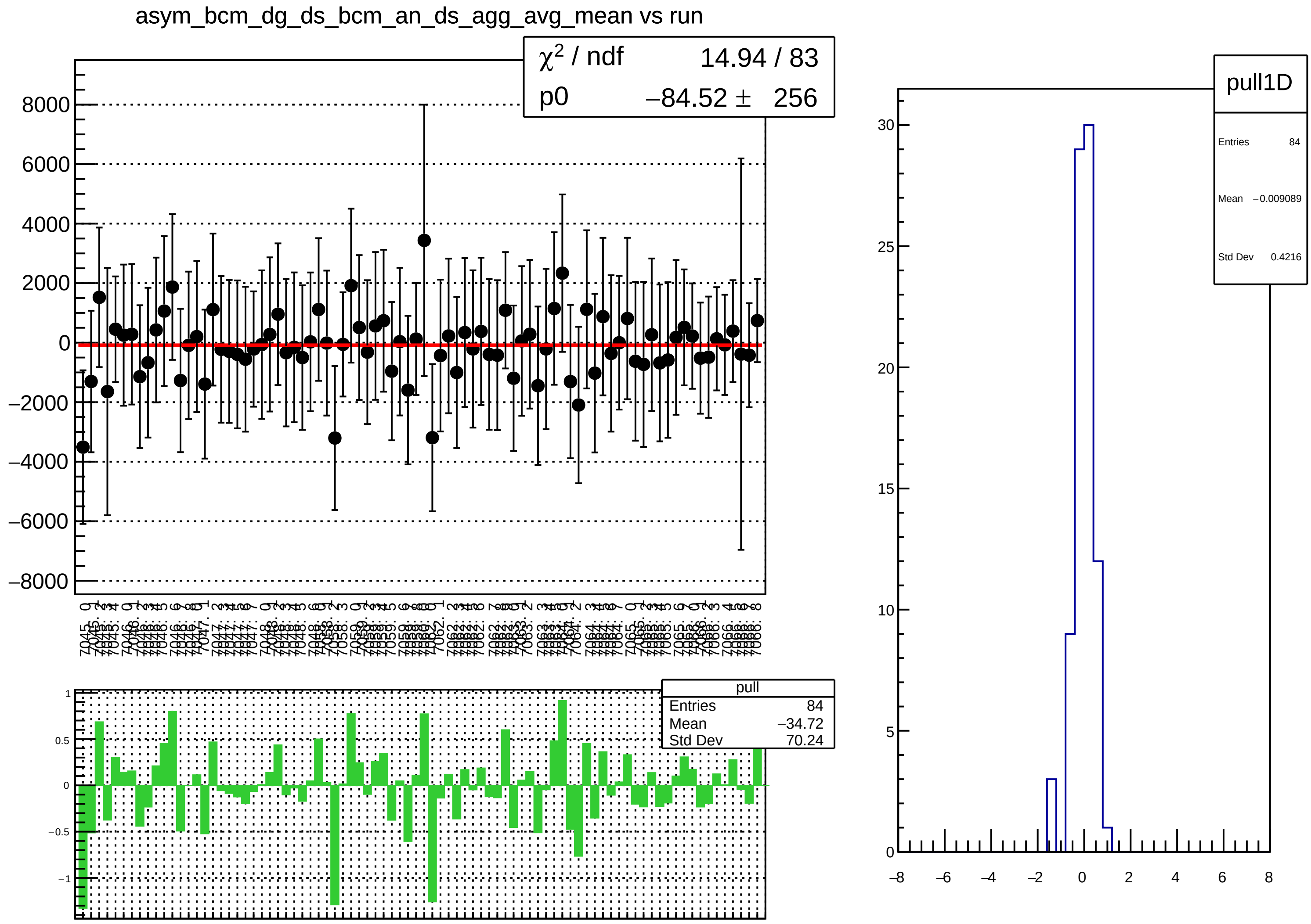
asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
$\chi^2$ / ndf 15.13 / 83
p0 −115.2 ± 255.5
pull
Entries 84
Mean −38.57
Std Dev 75.17
pull1D
Entries 84
Mean −0.008475
Std Dev 0.4244



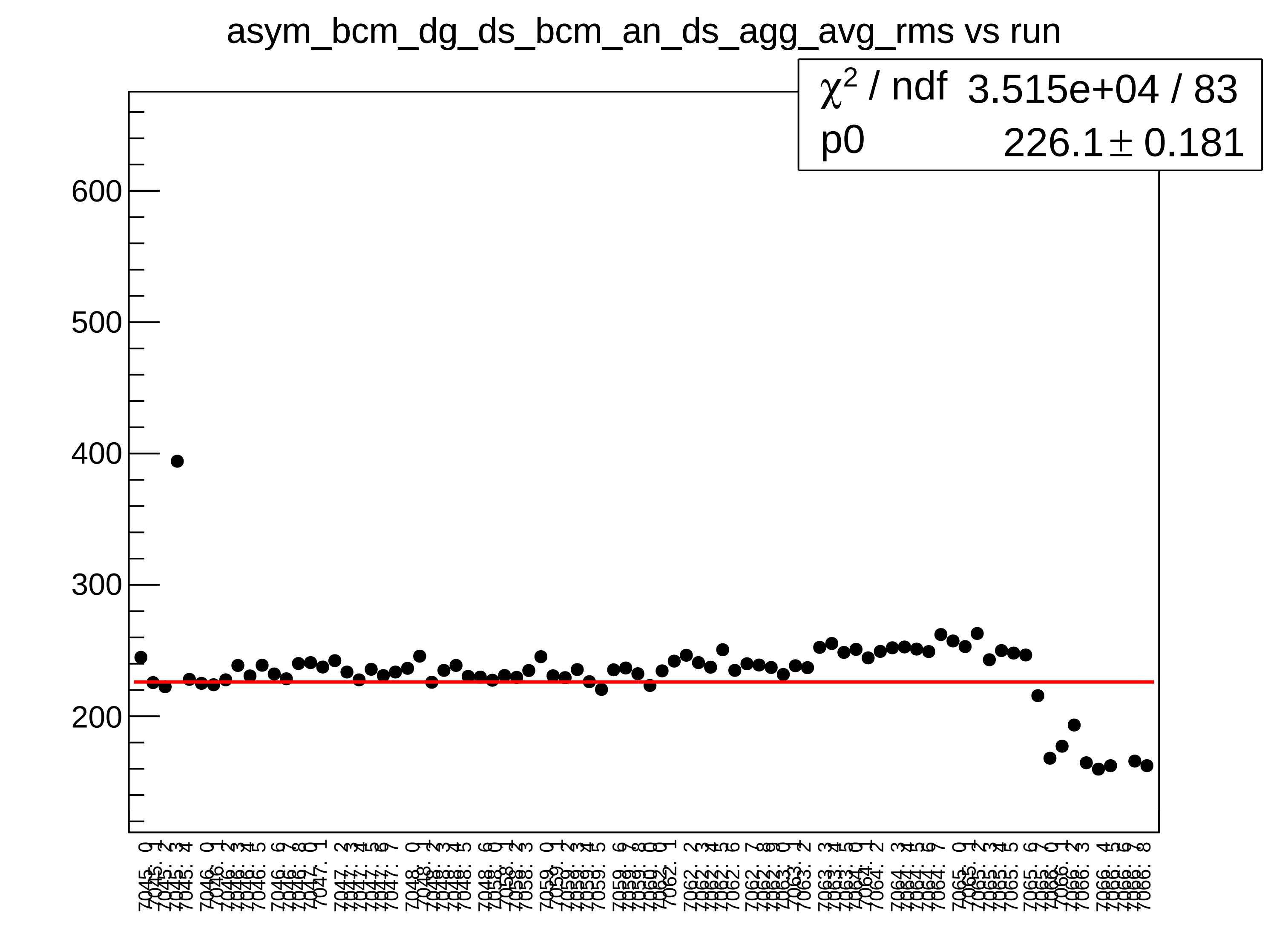
asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
$\chi^2$ / ndf 3.448e+04 / 83
p0 225.7 ± 0.1807
600
500
400
300
200


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
$\chi^2$ / ndf 68.78 / 83
p0 1.289 ± 25.2
pull
Entries 84
Mean 483.1
Std Dev 429.8
pull1D
Entries 84
Mean 0.00268
Std Dev 0.9049

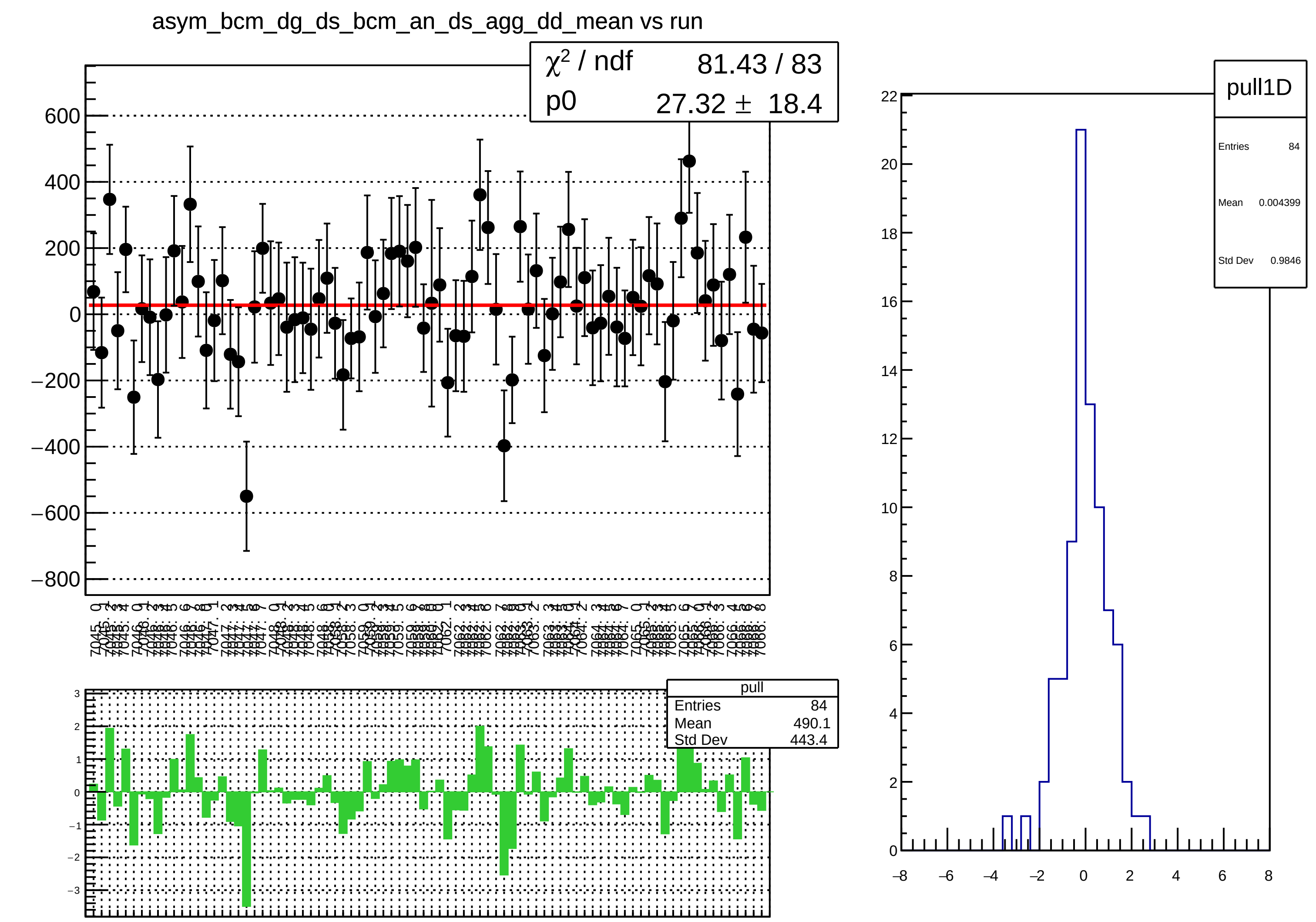

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ2 / ndf 399.8 / 83
p0 22.5 ± 0.01782
24
23.5
23
22.5
22
21.5



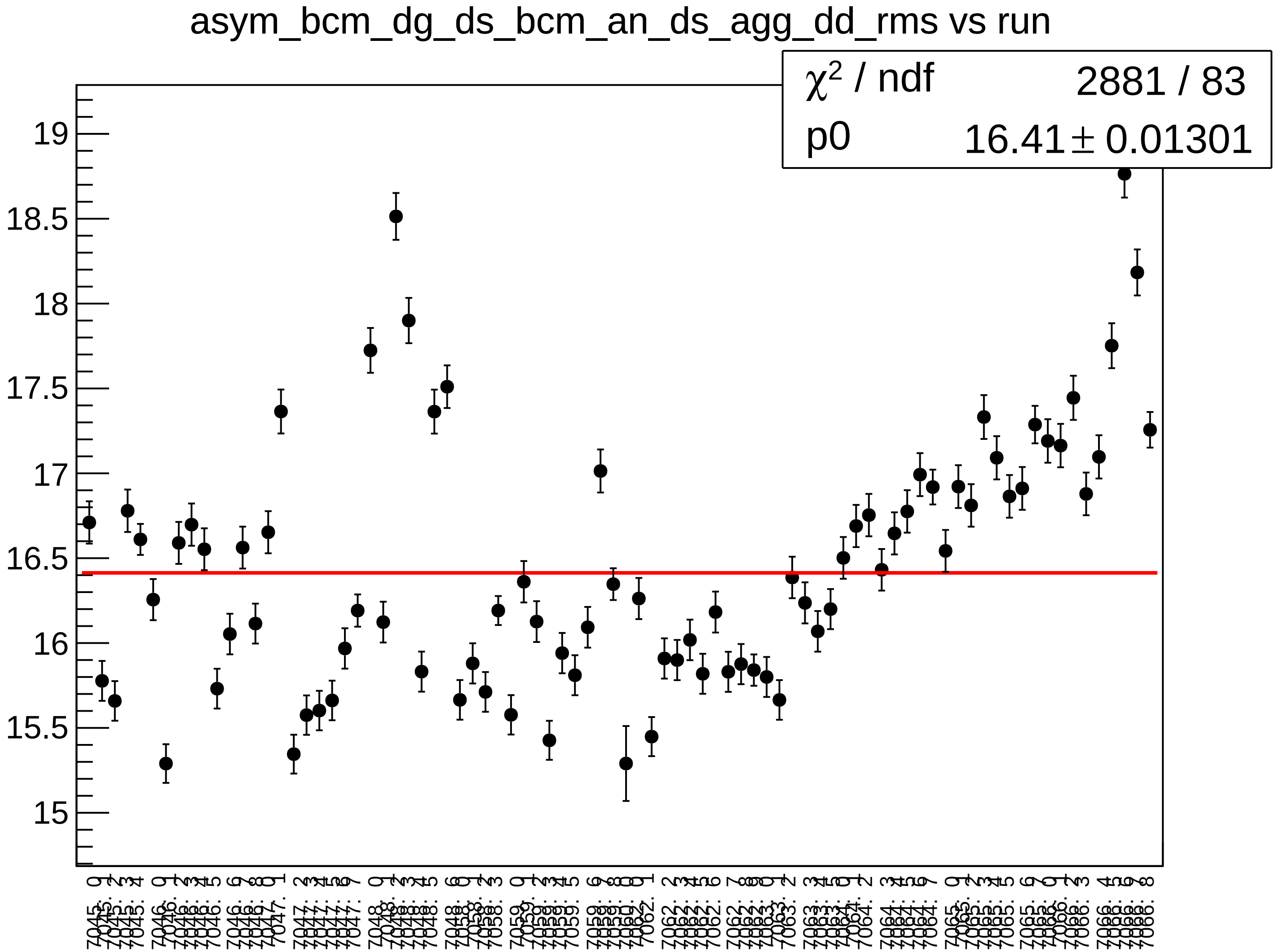
asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
$\chi^2$ / ndf 14.94 / 83
p0 −84.52 ± 256
pull
Entries 84
Mean −34.72
Std Dev 70.24
pull1D
Entries 84
Mean −0.009089
Std Dev 0.4216

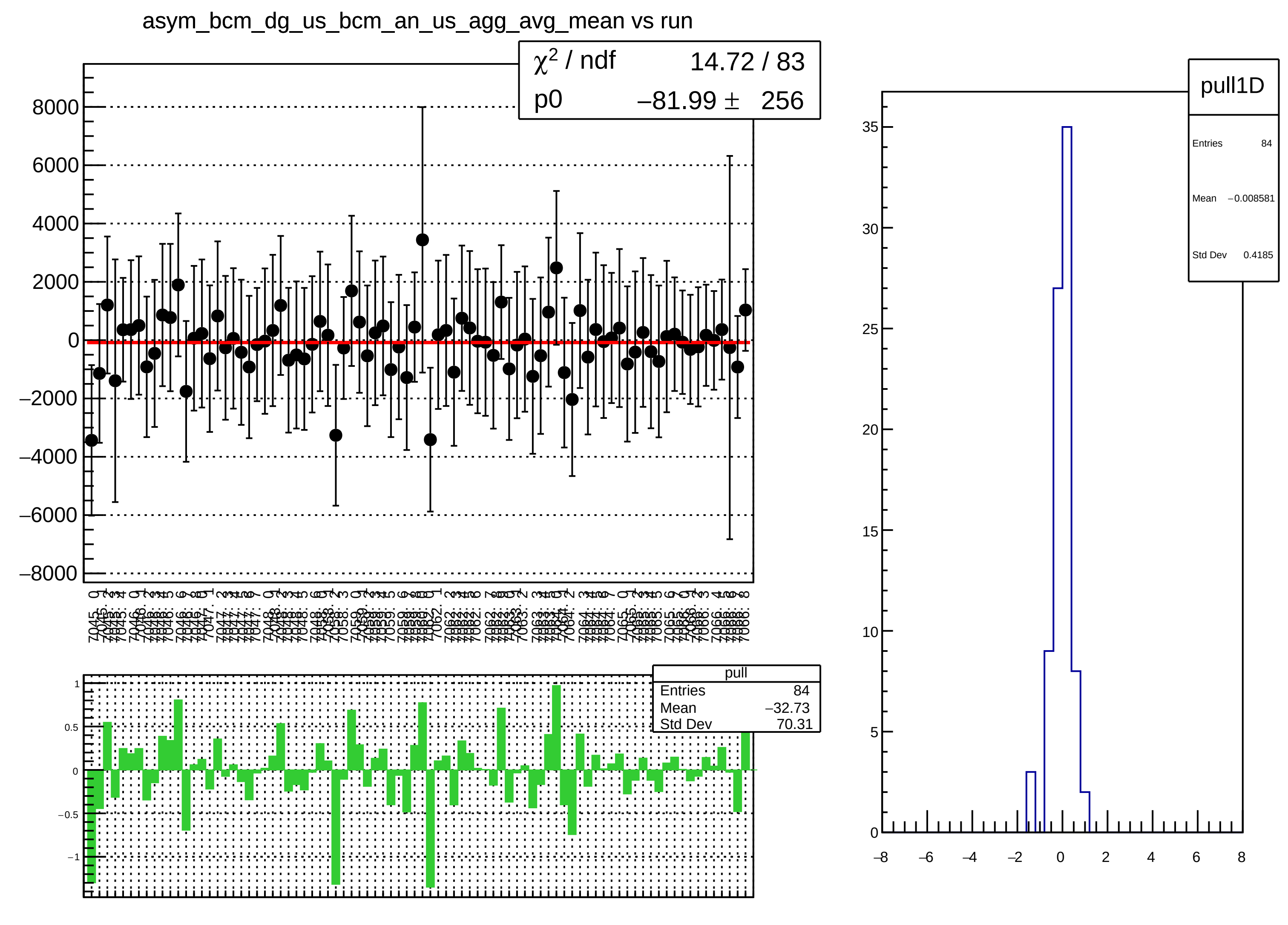


asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
$\chi^2$ / ndf 3.515e+04 / 83
p0 226.1 ± 0.181
600
500
400
300
200

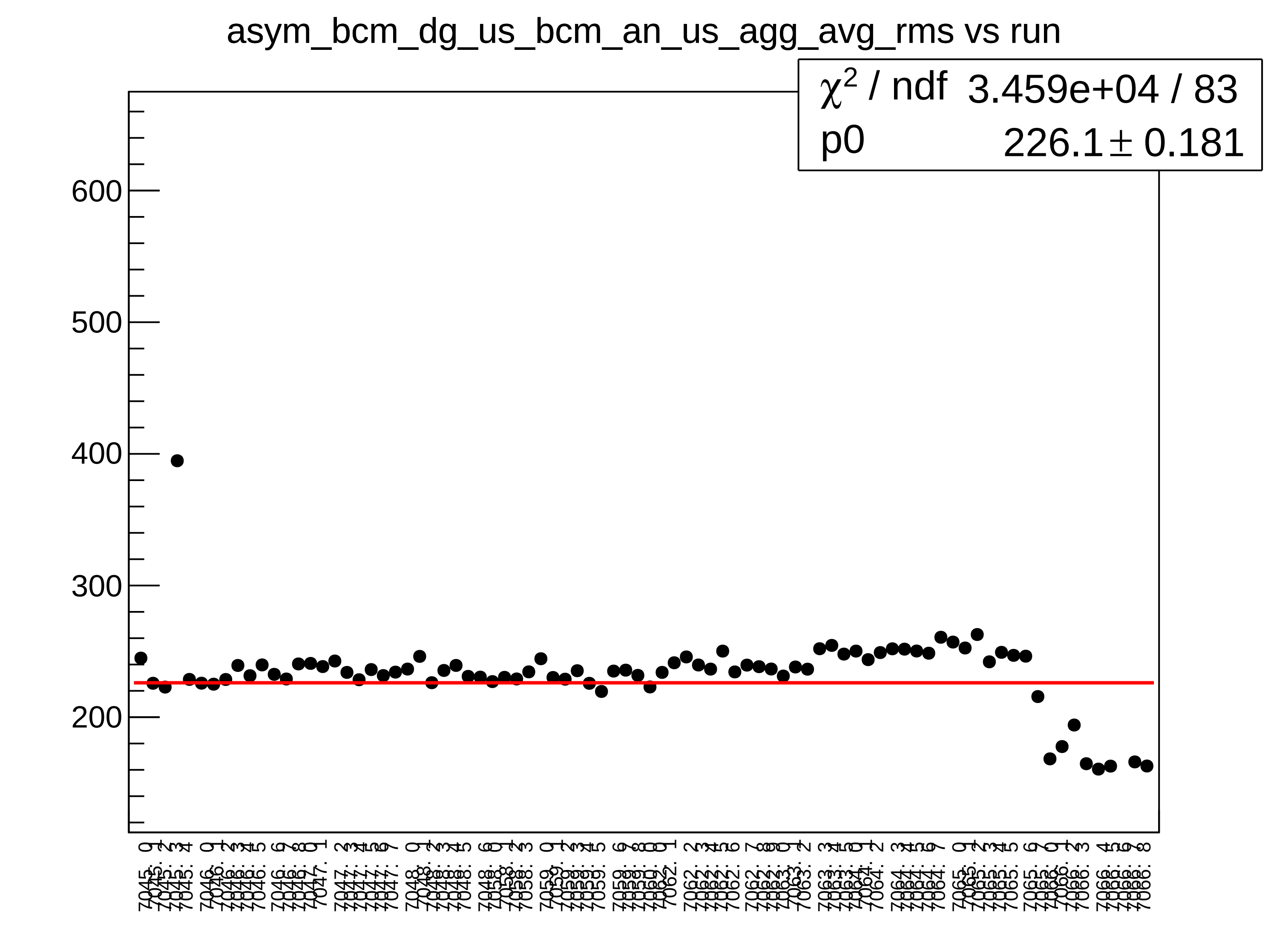


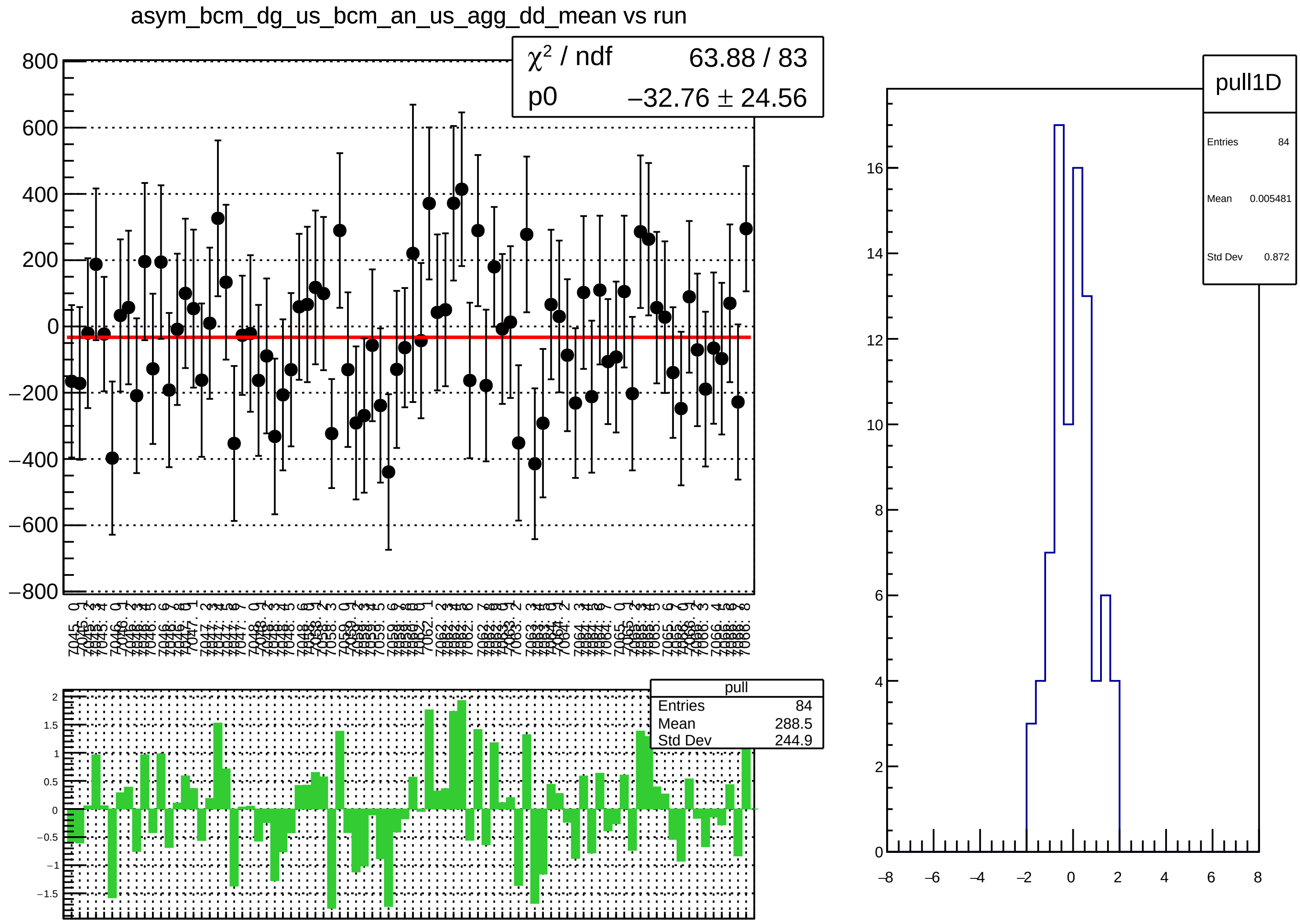
asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
$\chi^2$ / ndf 81.43 / 83
p0 27.32 ± 18.4
pull
Entries 84
Mean 490.1
Std Dev 443.4
pull1D
Entries 84
Mean 0.004399
Std Dev 0.9846


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ2 / ndf 2881 / 83
p0 16.41 ± 0.01301
19
18.5
18
17.5
17
16.5
16
15.5
15

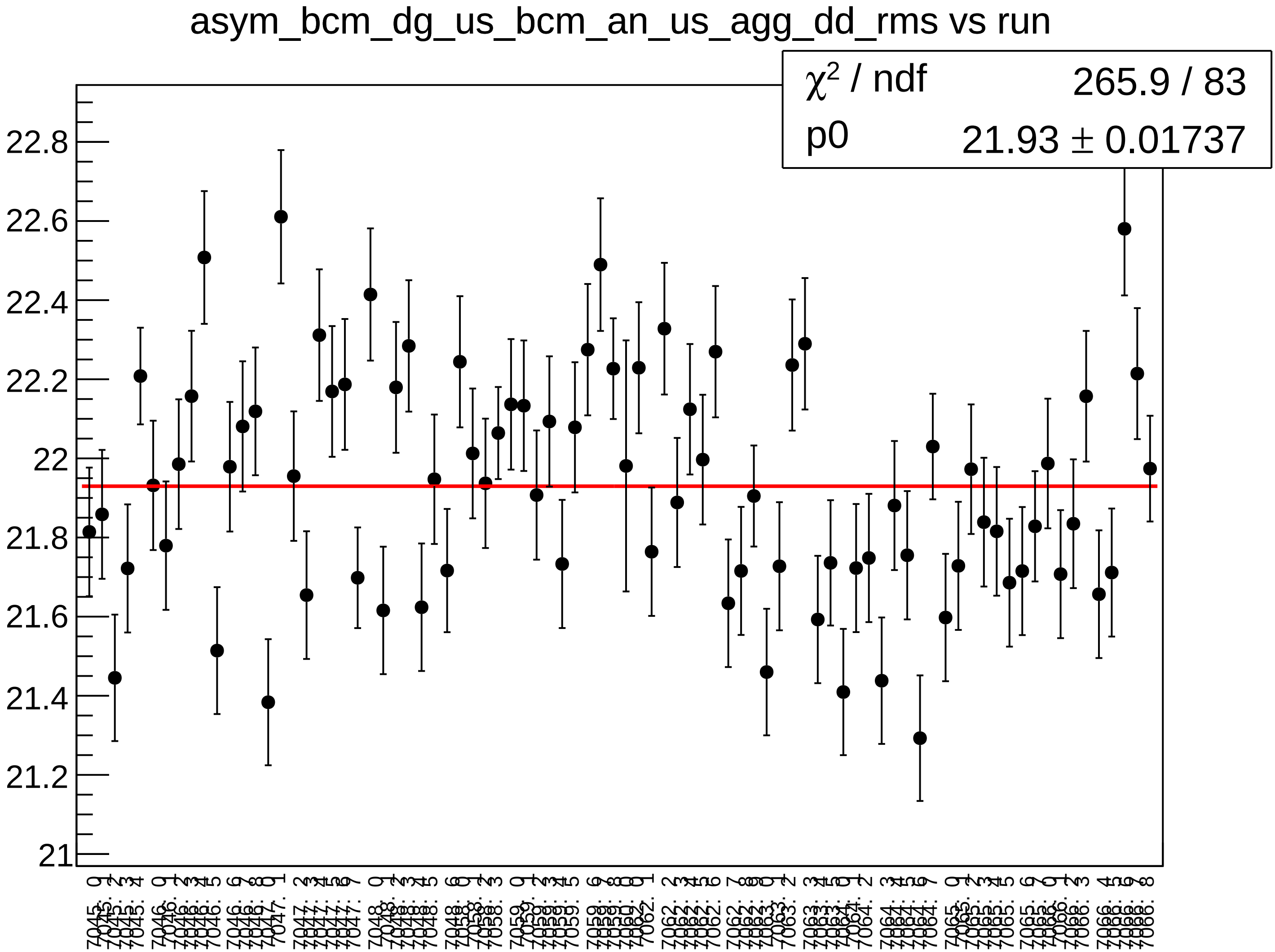


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
$\chi^2$ / ndf 14.72 / 83
p0 −81.99 ± 256
pull
Entries 84
Mean −32.73
Std Dev 70.31
pull1D
Entries 84
Mean −0.008581
Std Dev 0.4185

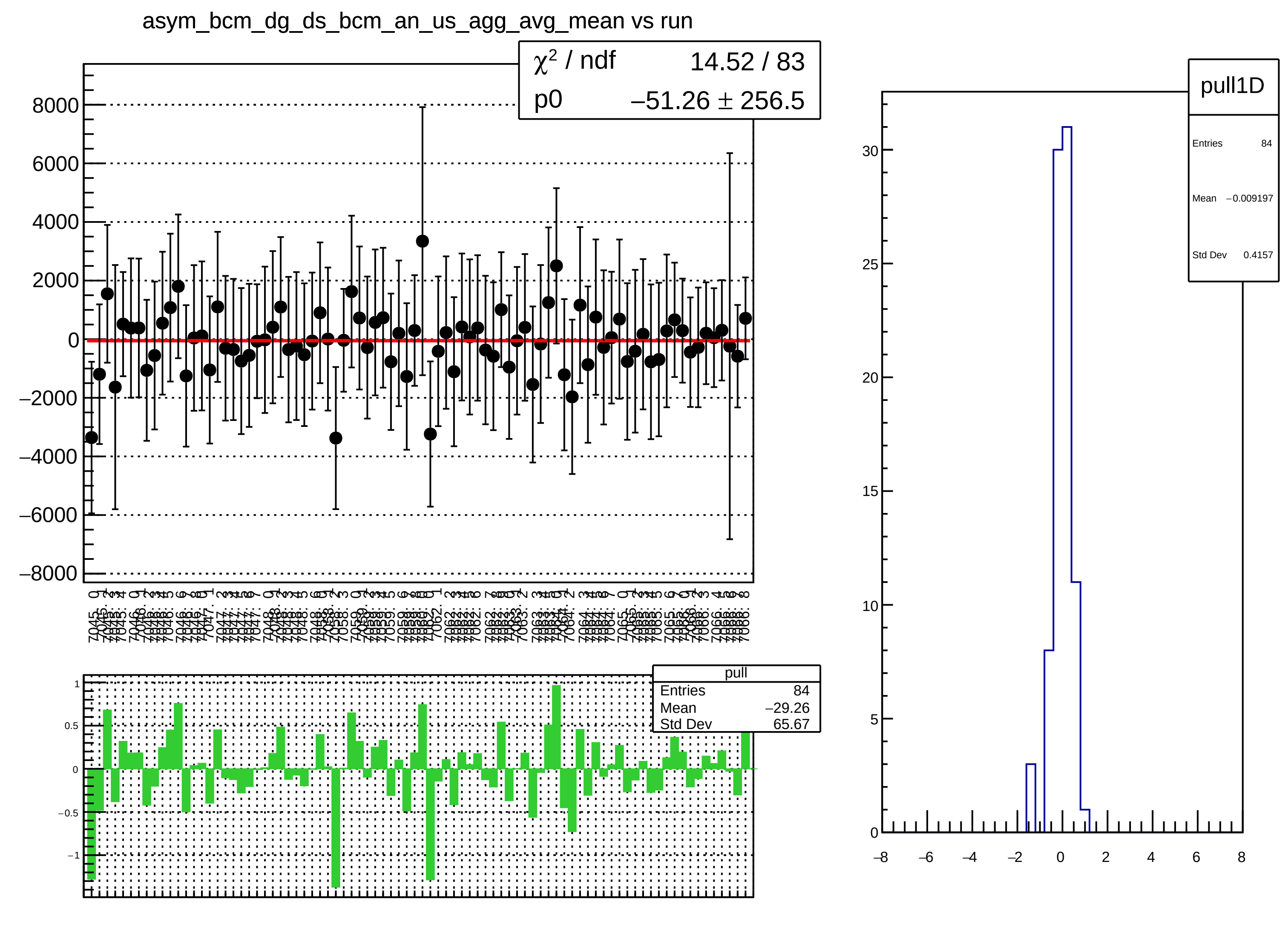

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
$\chi^2$ / ndf 3.459e+04 / 83
p0 226.1 ± 0.181
600
500
400
300
200

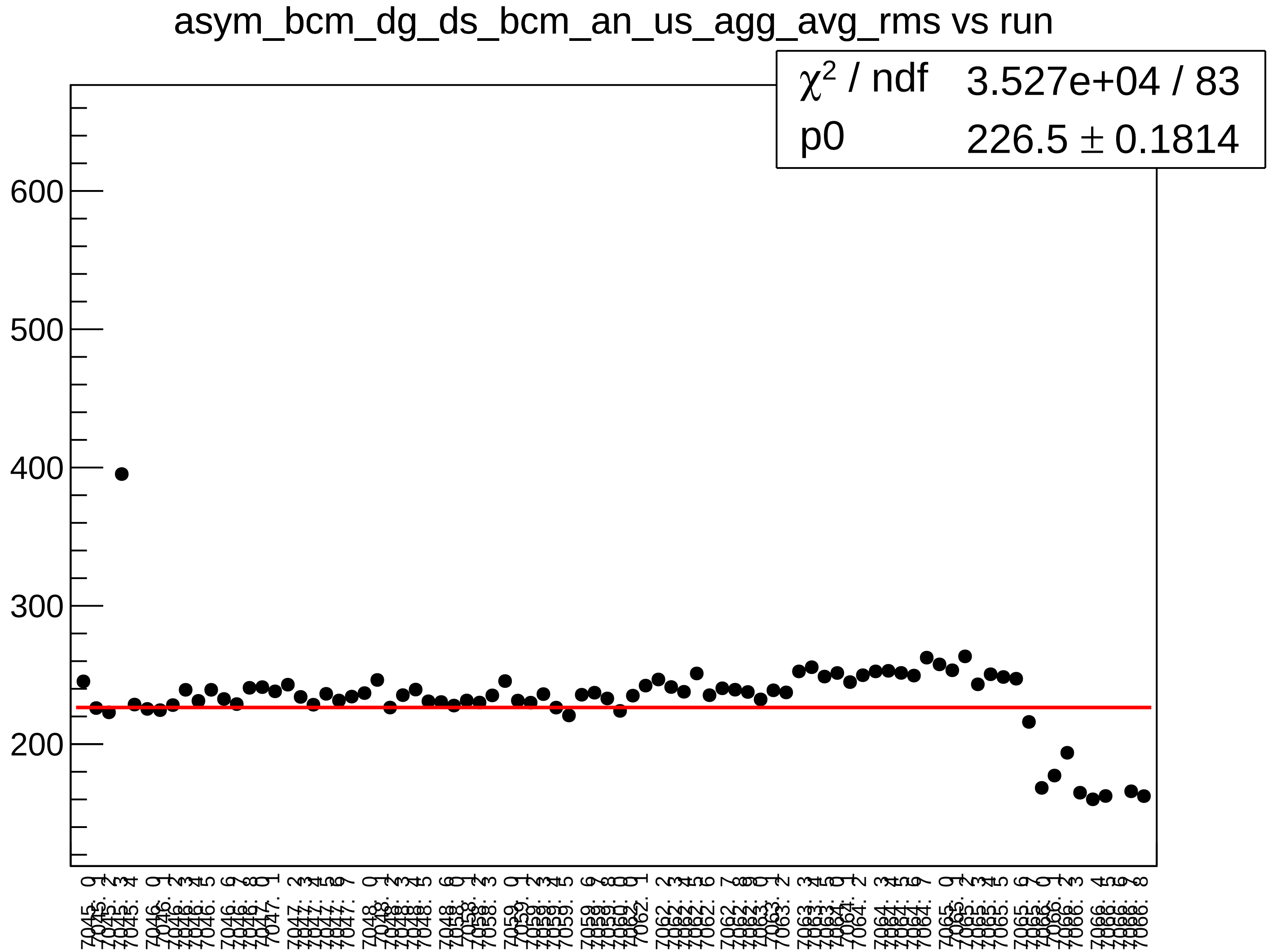


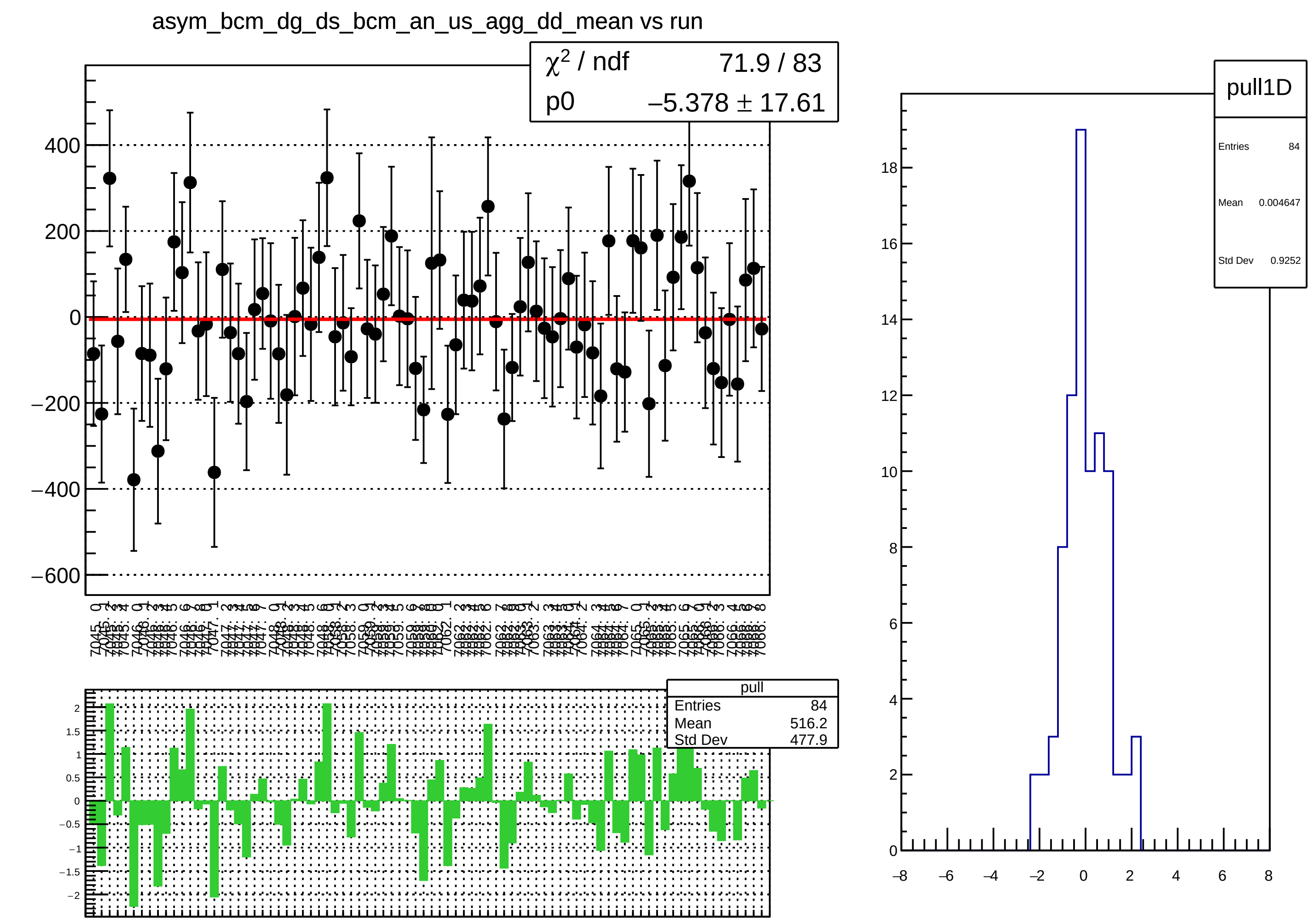
asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
$\chi^2$ / ndf 63.88 / 83
p0 −32.76 ± 24.56
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 84
Mean 288.5
Std Dev 244.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.005481
Std Dev 0.872
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

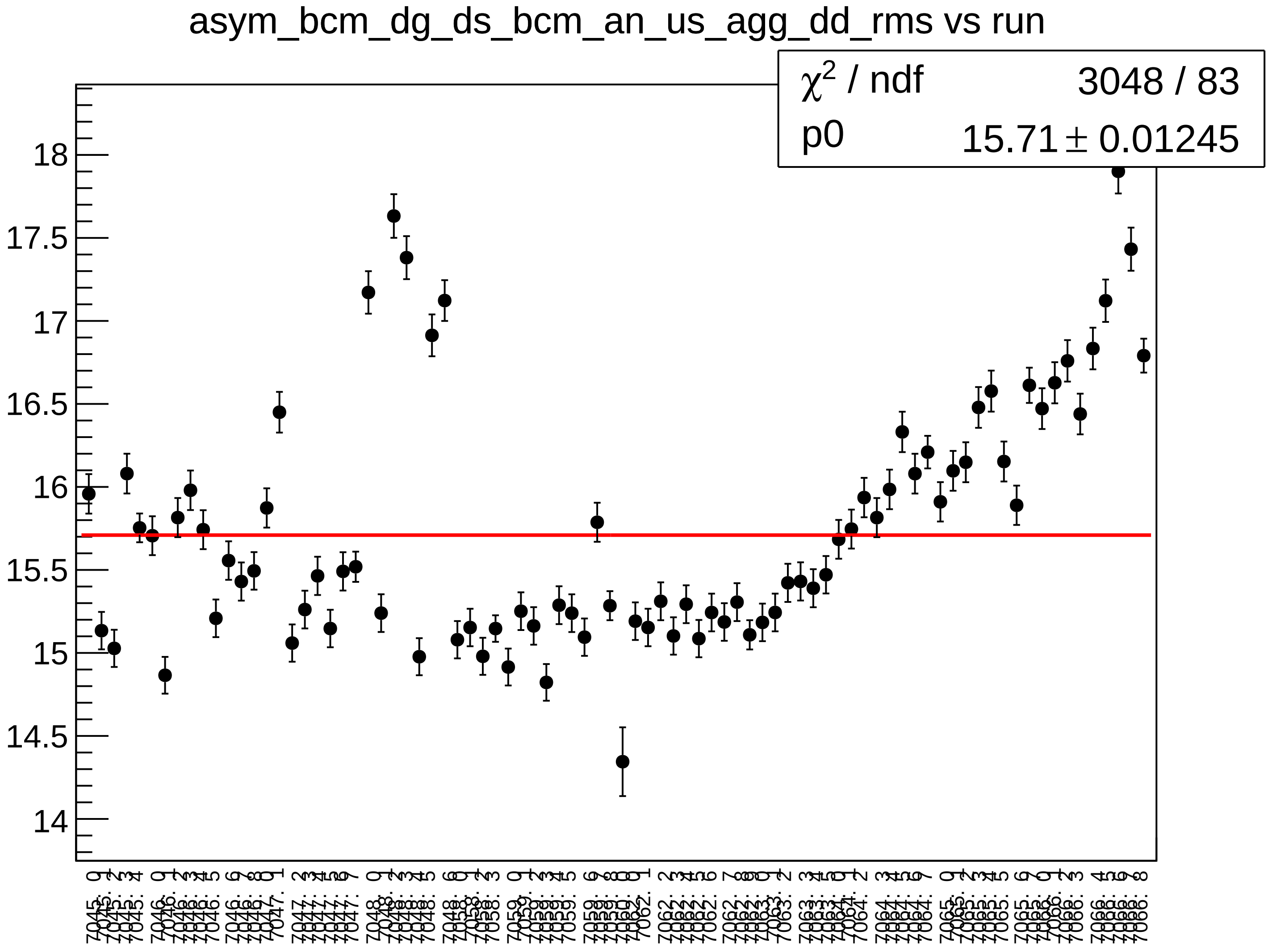


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
$\chi^2$ / ndf 265.9 / 83
p0 21.93 ± 0.01737
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21

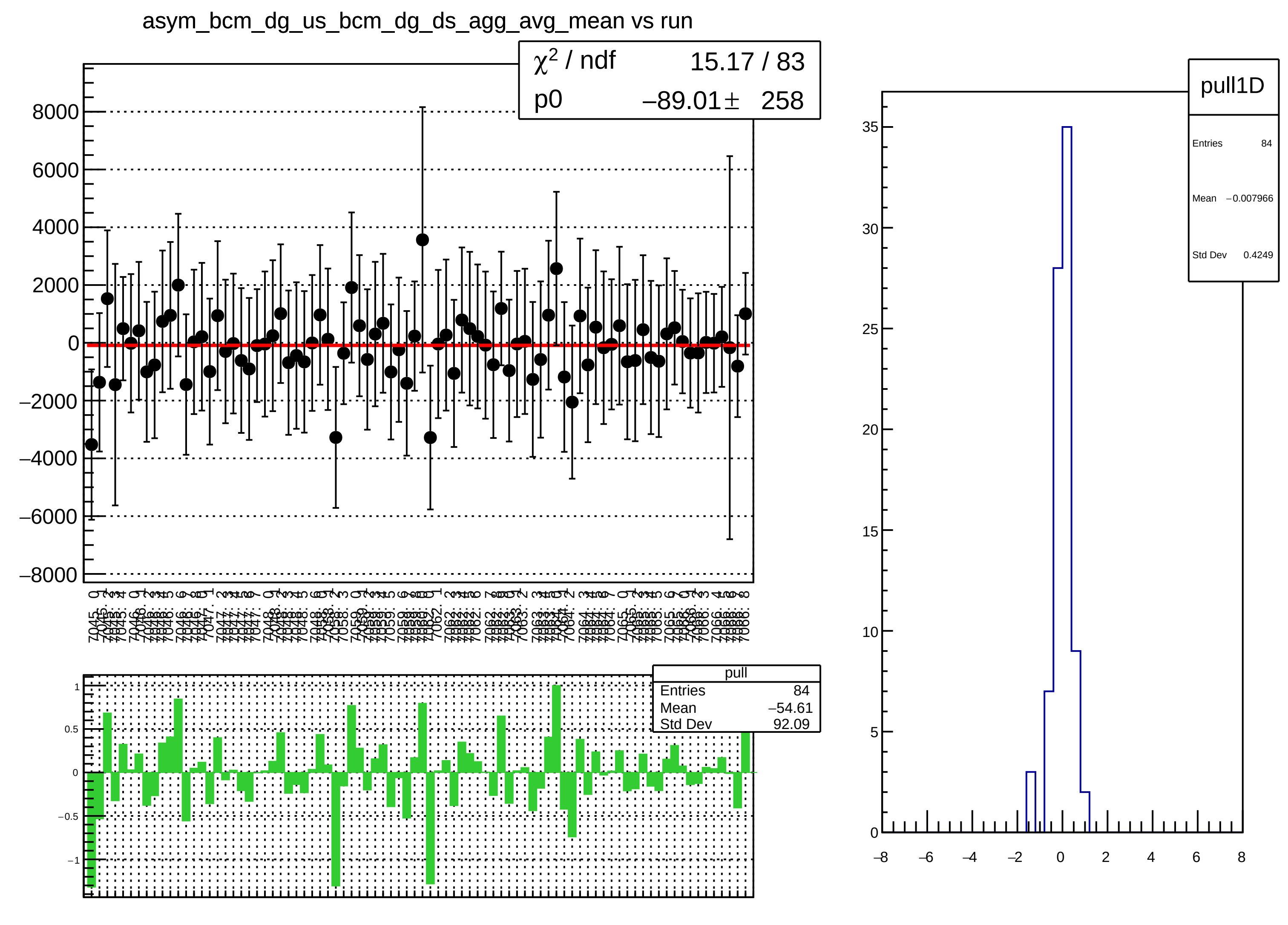

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
$\chi^2$ / ndf 14.52 / 83
p0 −51.26 ± 256.5
pull
Entries 84
Mean −29.26
Std Dev 65.67
pull1D
Entries 84
Mean −0.009197
Std Dev 0.4157

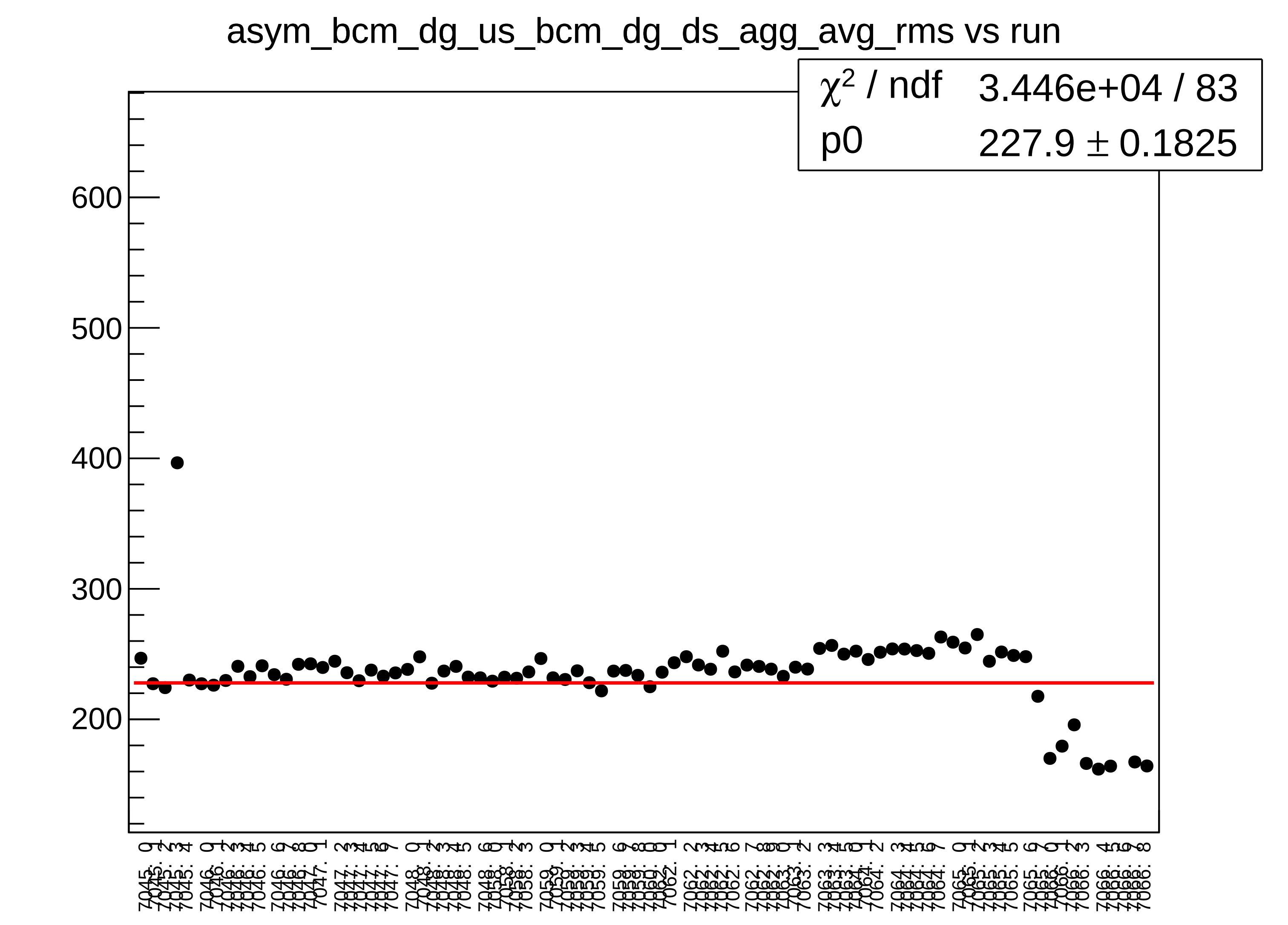

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ2 / ndf 3.527e+04 / 83
p0 226.5 ± 0.1814
600
500
400
300
200

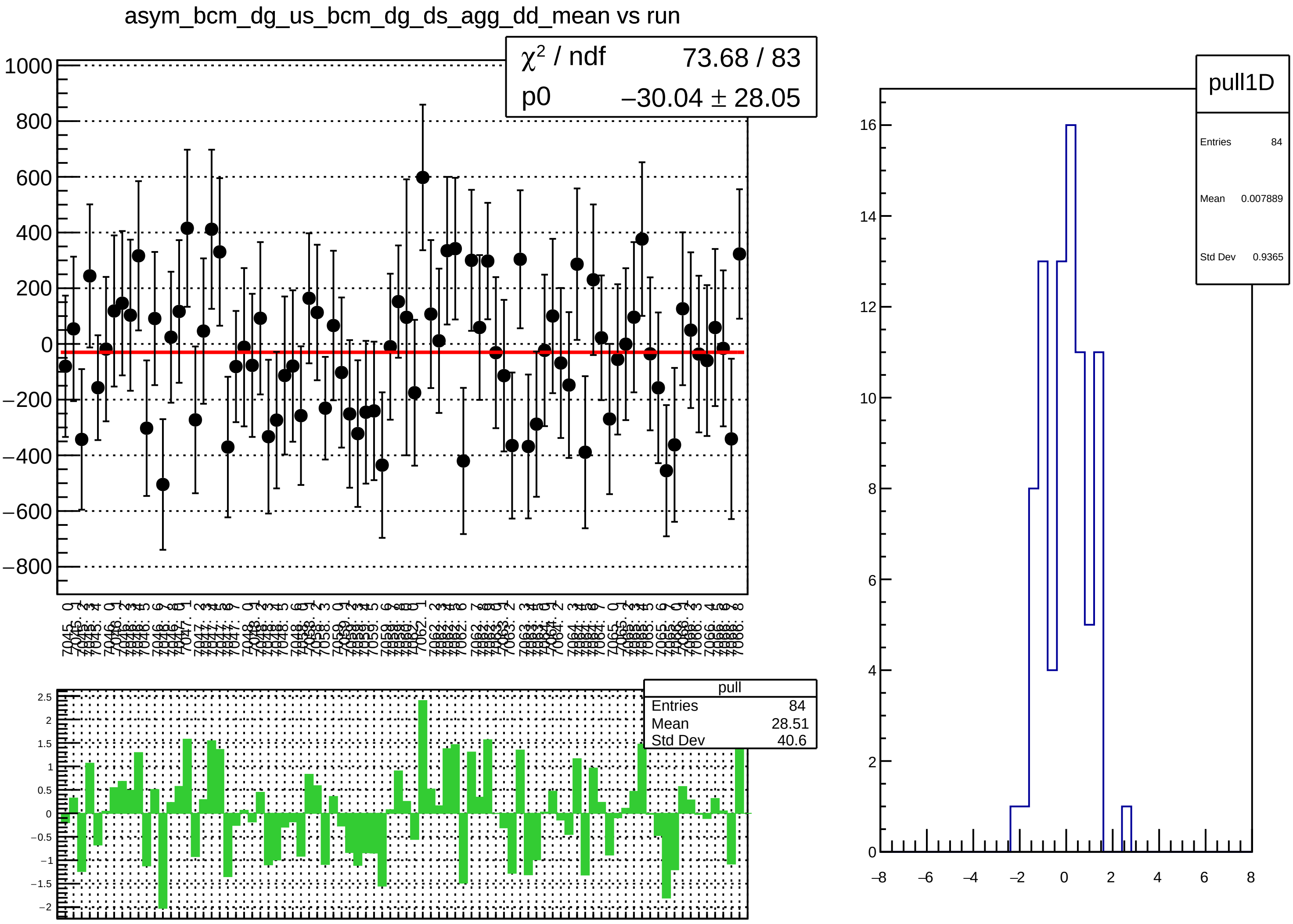

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
$\chi^2$ / ndf 71.9 / 83
p0 −5.378 ± 17.61
pull
Entries 84
Mean 516.2
Std Dev 477.9
pull1D
Entries 84
Mean 0.004647
Std Dev 0.9252

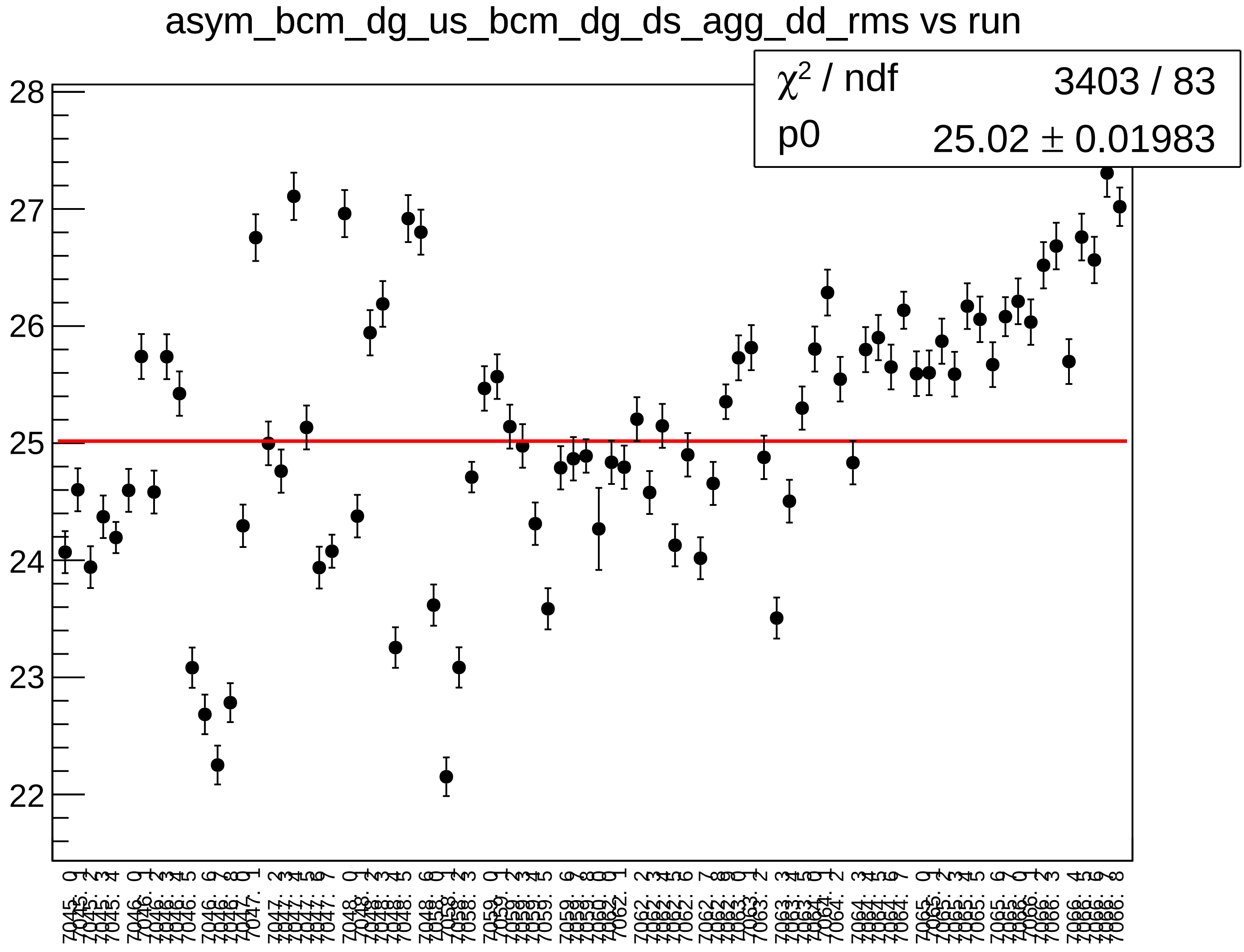


asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
$\chi^2$ / ndf 3048 / 83
p0 15.71 ± 0.01245
18
17.5
17
16.5
16
15.5
15
14.5
14

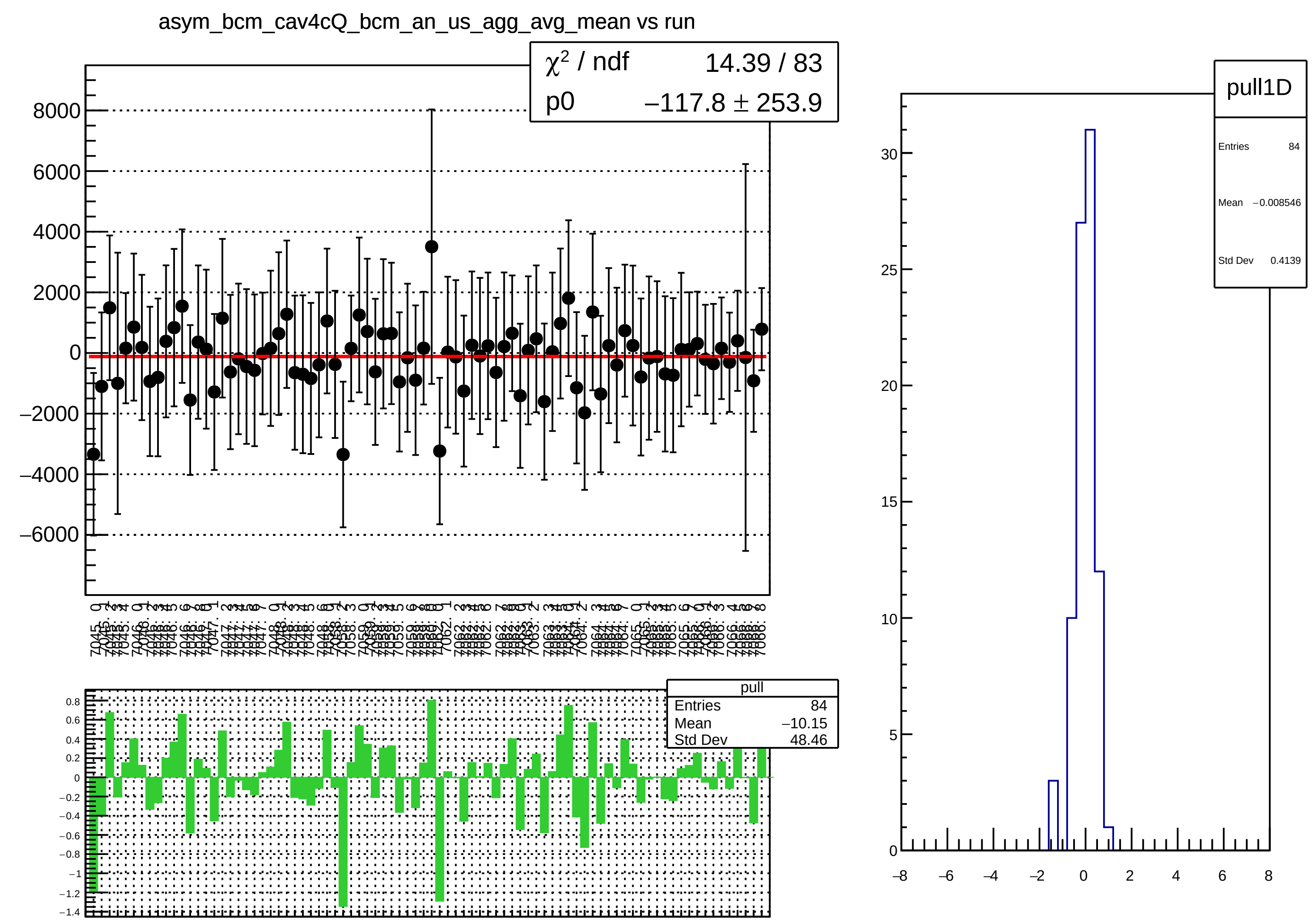

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
$\chi^2$ / ndf 15.17 / 83
p0 −89.01 ± 258
pull
Entries 84
Mean −54.61
Std Dev 92.09
pull1D
Entries 84
Mean −0.007966
Std Dev 0.4249


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
$\chi^2$ / ndf 3.446e+04 / 83
p0 227.9 ± 0.1825
600
500
400
300
200

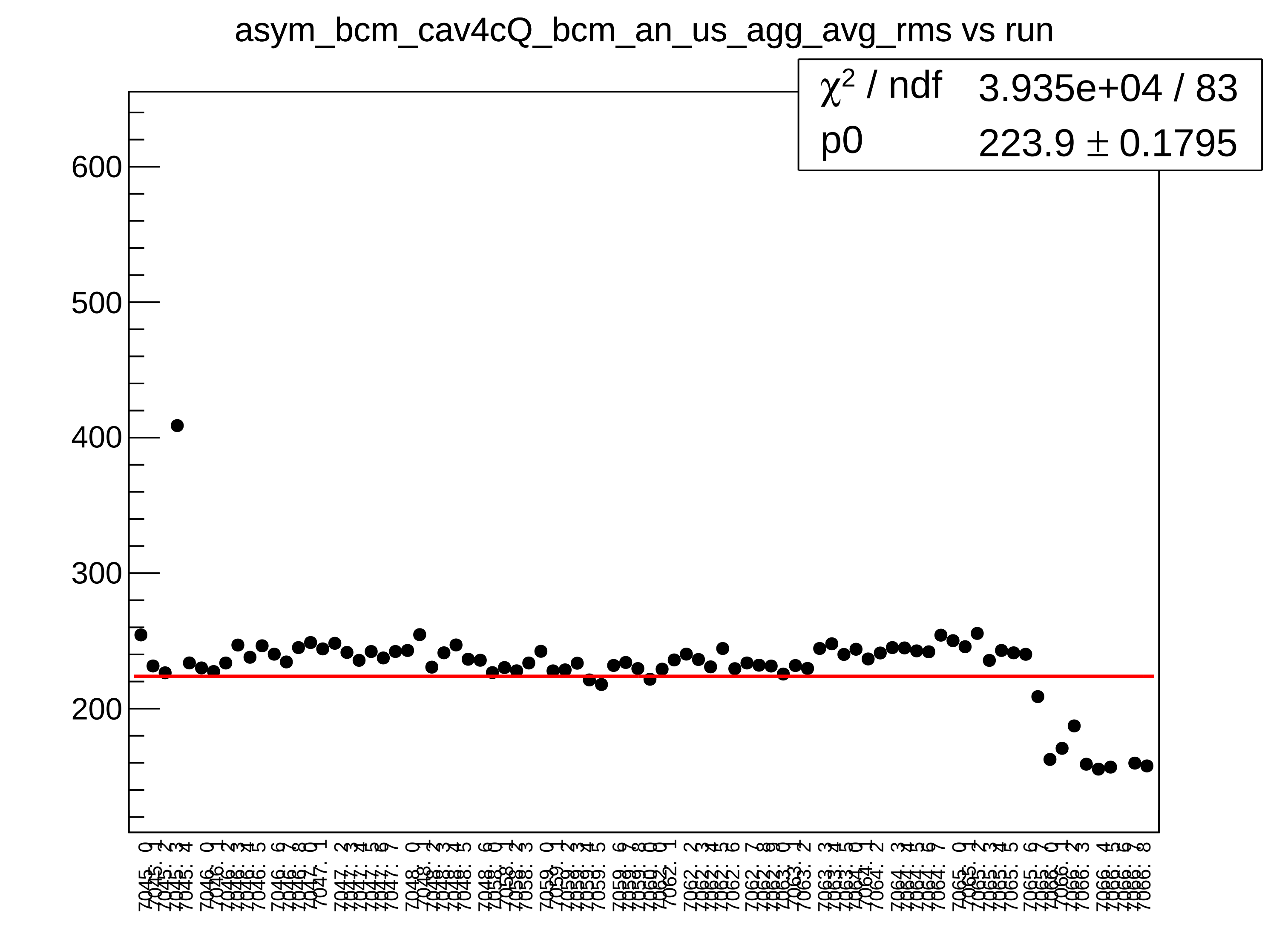

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
$\chi^2$ / ndf 73.68 / 83
p0 −30.04 ± 28.05
pull
Entries 84
Mean 28.51
Std Dev 40.6
pull1D
Entries 84
Mean 0.007889
Std Dev 0.9365



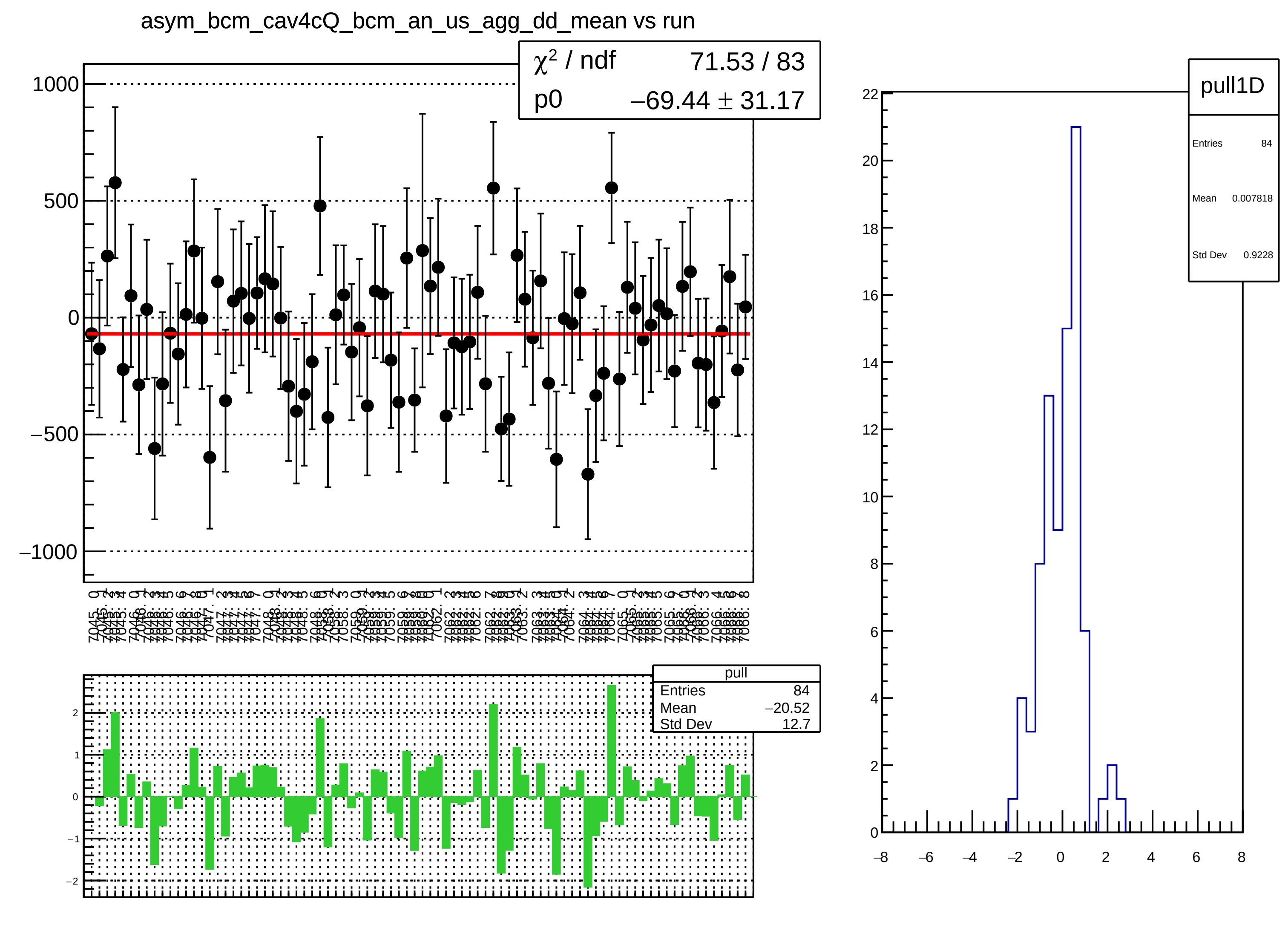
asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
$\chi^2$ / ndf 3403 / 83
p0 25.02 ± 0.01983
28
27
26
25
24
23
22



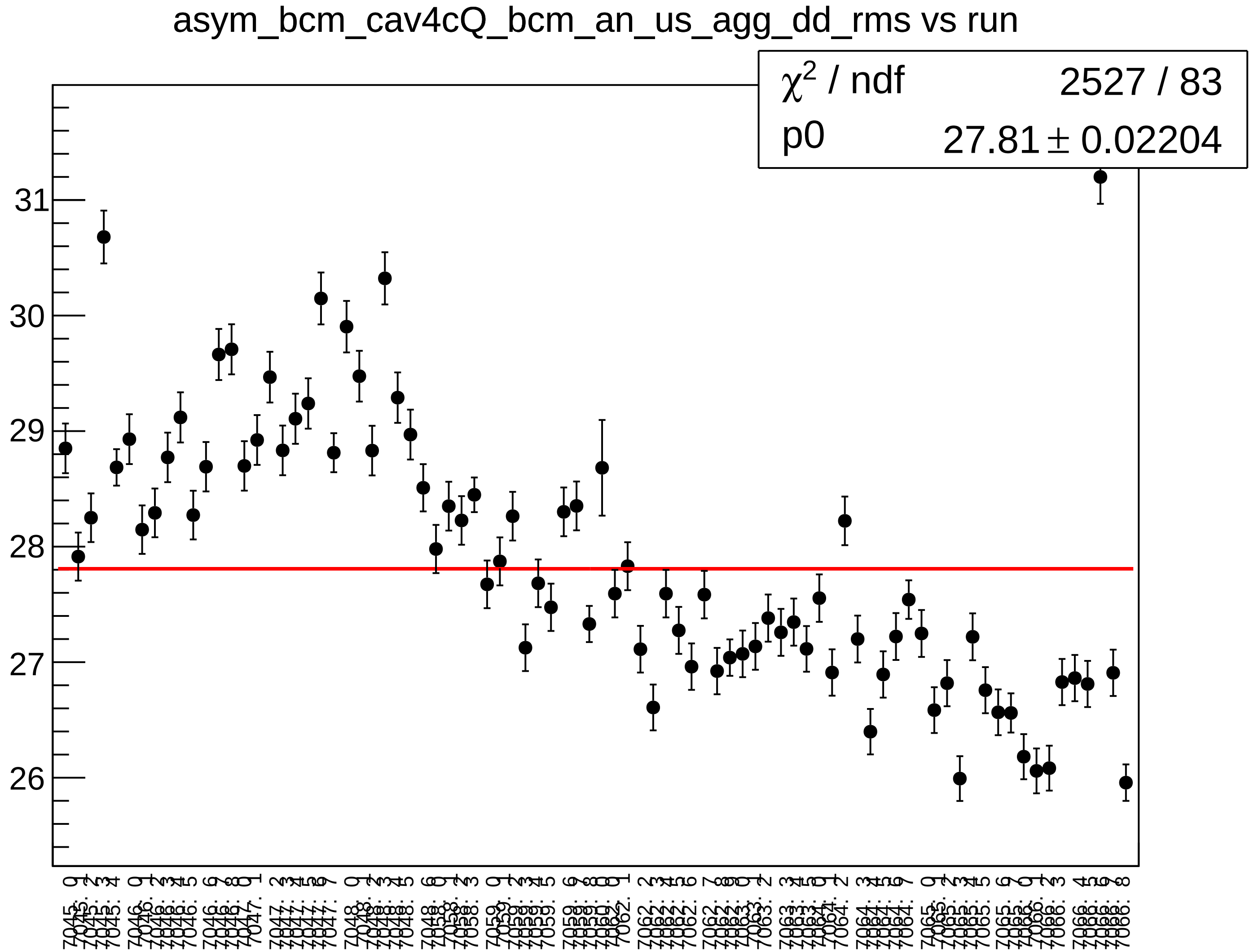
asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
$\chi^2$ / ndf 14.39 / 83
p0 −117.8 ± 253.9
pull
Entries 84
Mean −10.15
Std Dev 48.46
pull1D
Entries 84
Mean −0.008546
Std Dev 0.4139



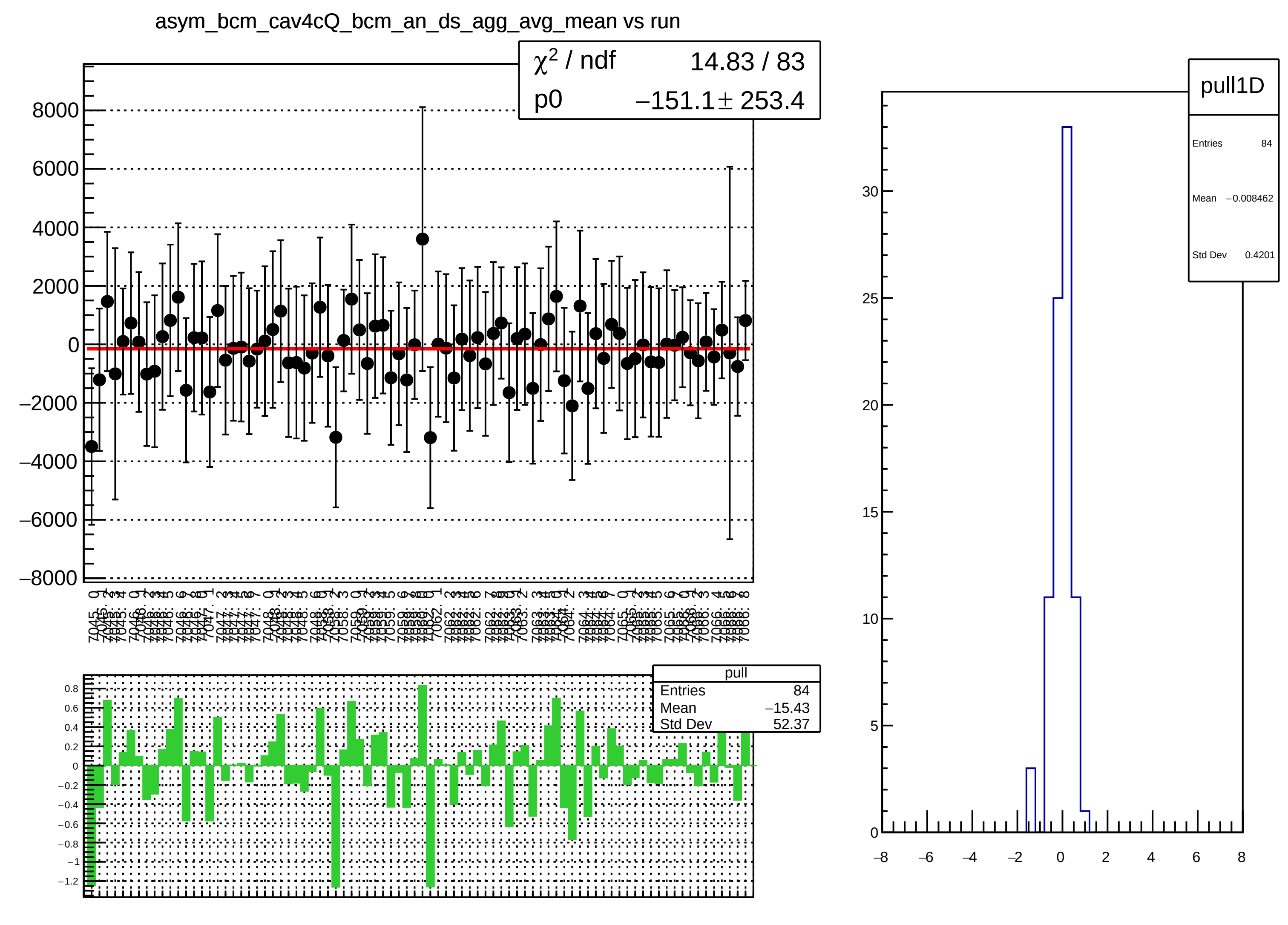
asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
$\chi^2$ / ndf 3.935e+04 / 83
p0 223.9 ± 0.1795
600
500
400
300
200



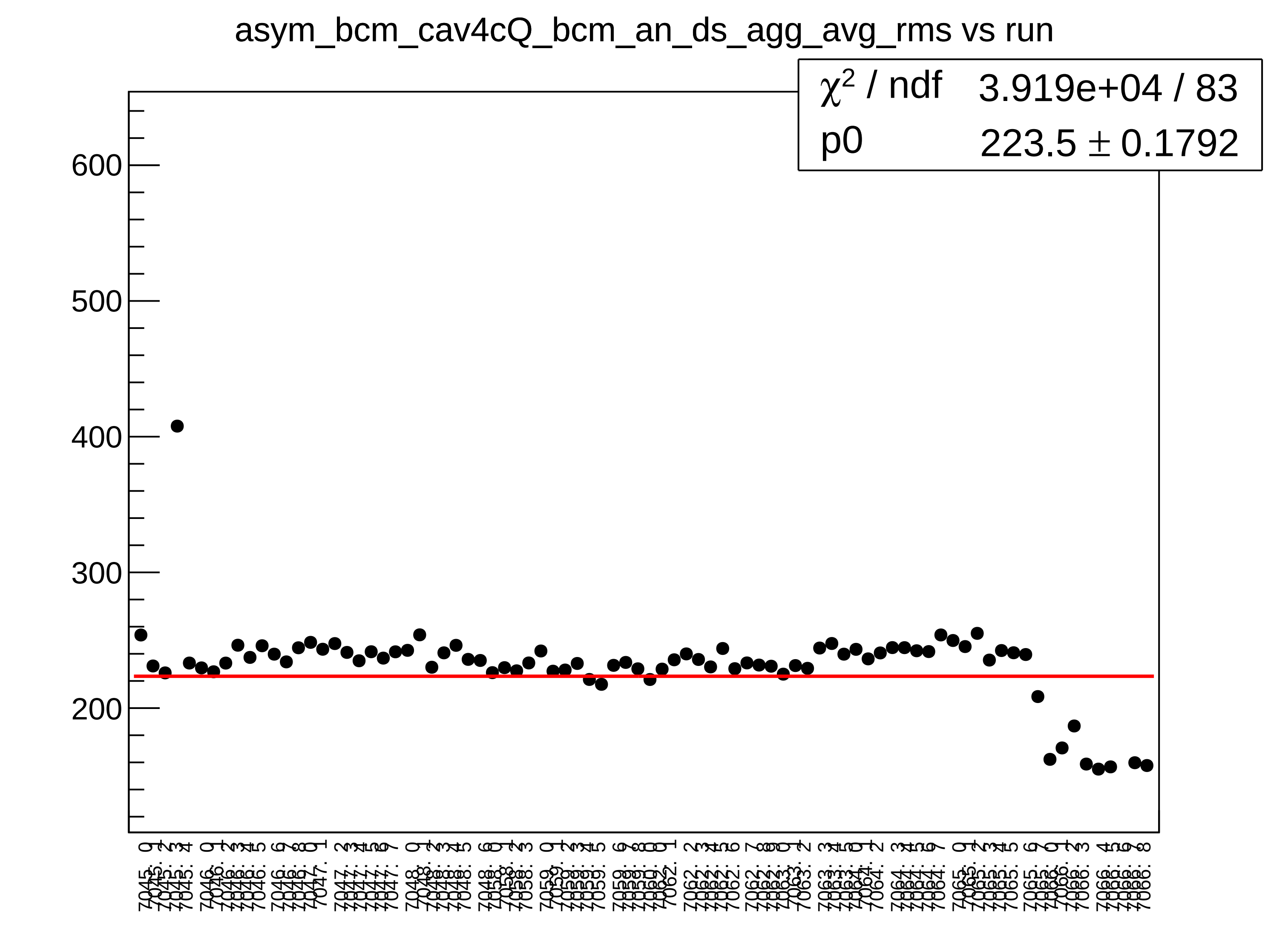
asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ2 / ndf 71.53 / 83
p0 −69.44 ± 31.17
pull
Entries 84
Mean −20.52
Std Dev 12.7
pull1D
Entries 84
Mean 0.007818
Std Dev 0.9228

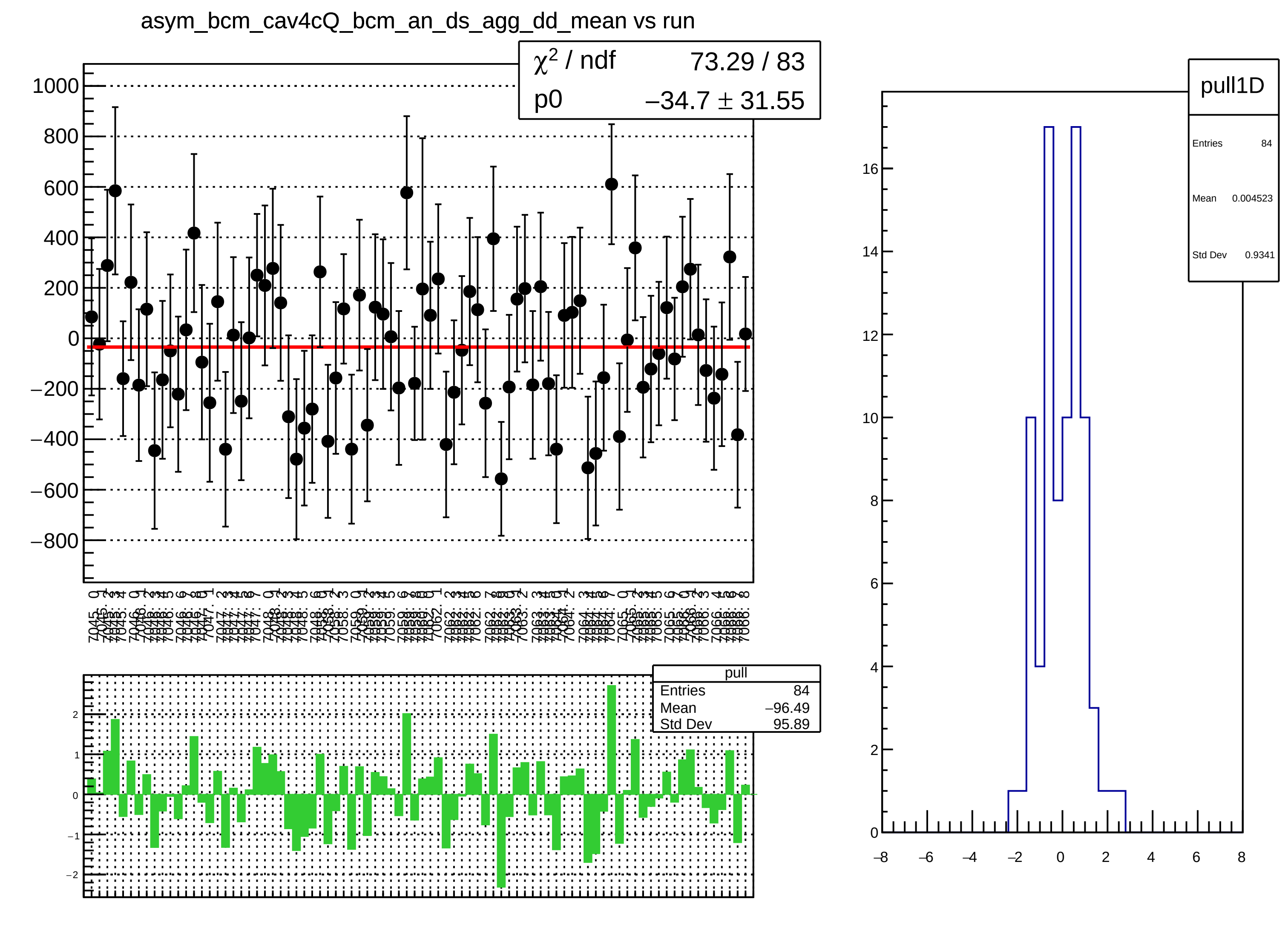


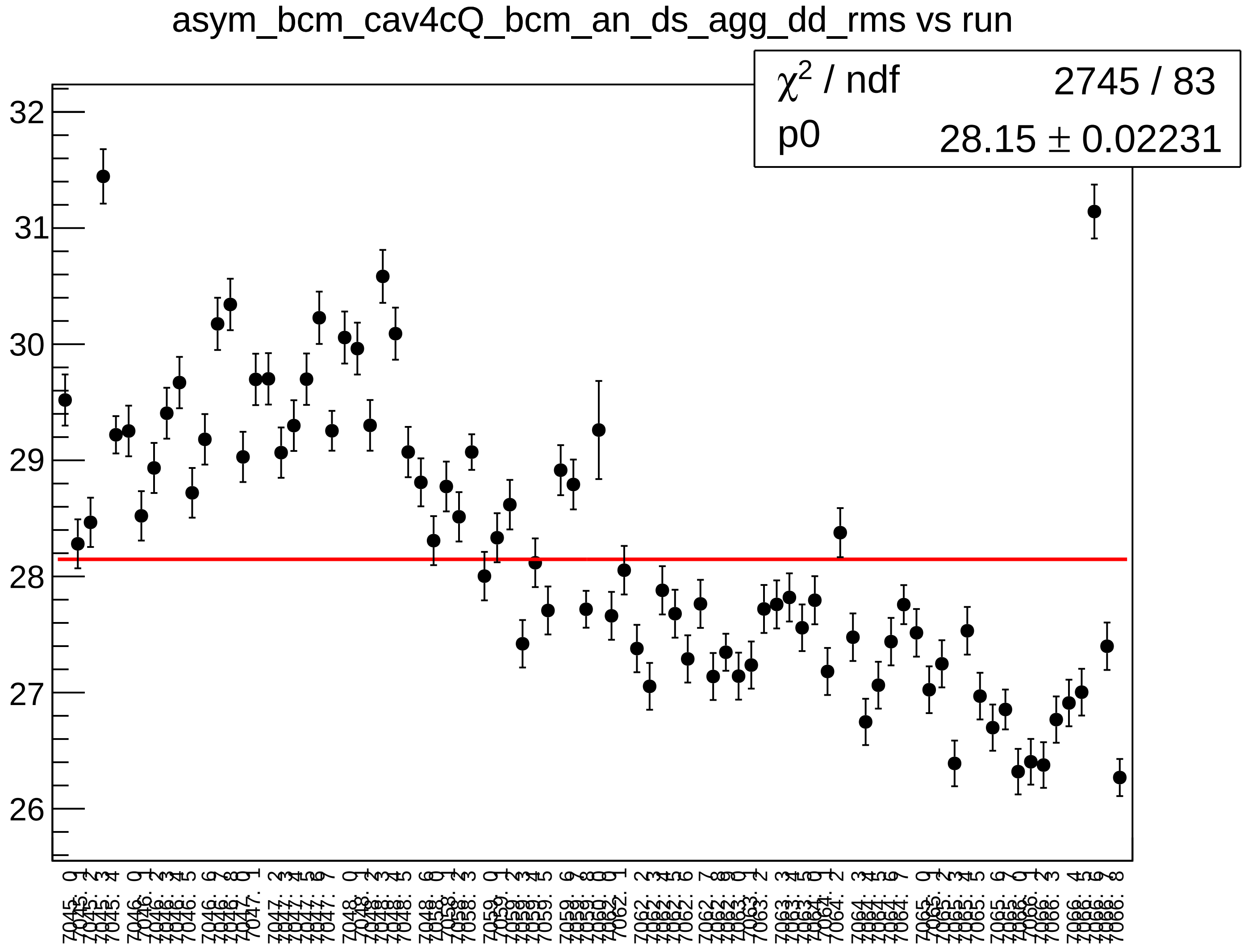
asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ2 / ndf 2527 / 83
p0 27.81 ± 0.02204
31
30
29
28
27
26



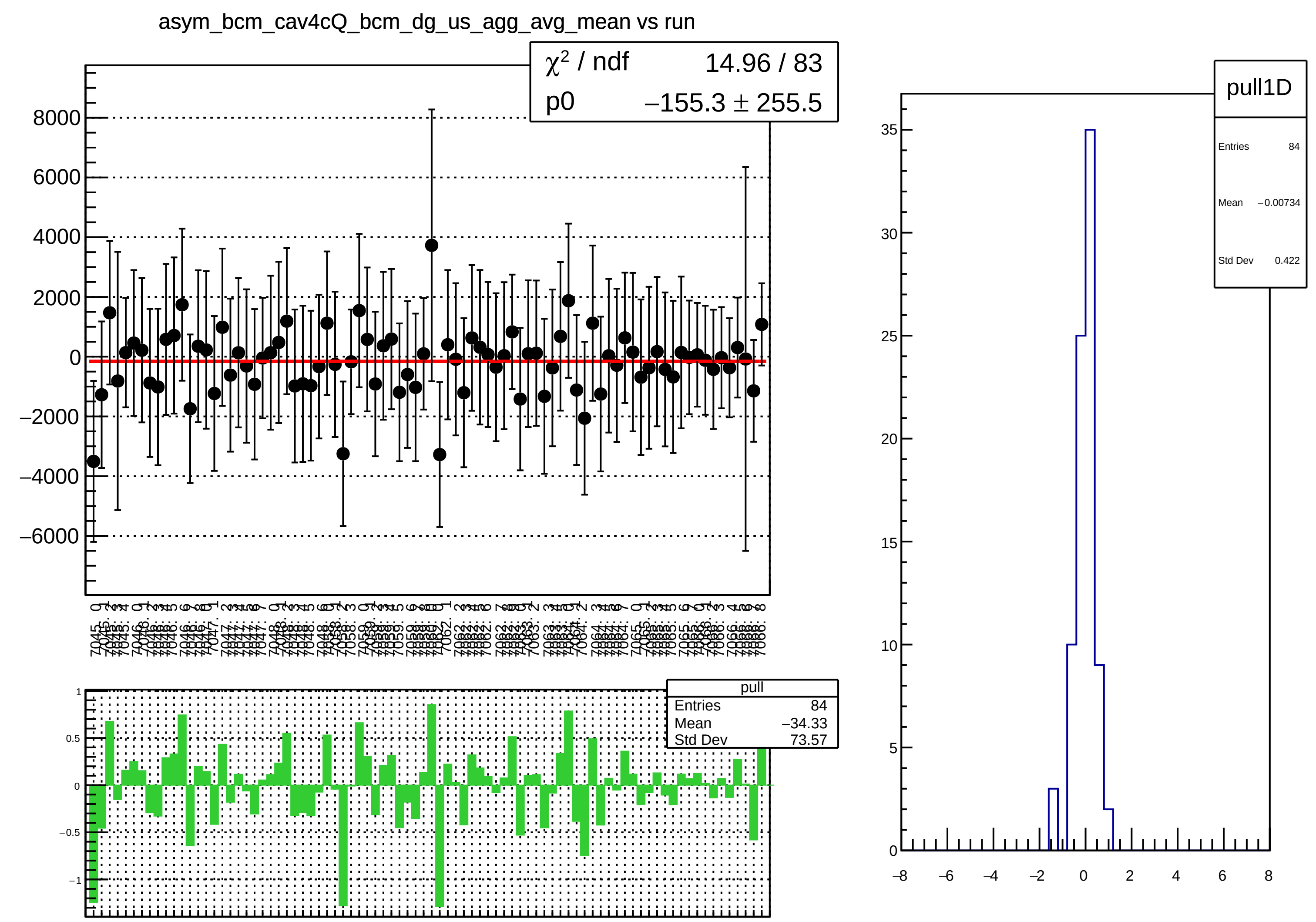
asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
$\chi^2$ / ndf 14.83 / 83
p0 −151.1 ± 253.4
pull
Entries 84
Mean −15.43
Std Dev 52.37
pull1D
Entries 84
Mean −0.008462
Std Dev 0.4201


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
$\chi^2$ / ndf 3.919e+04 / 83
p0 223.5 ± 0.1792
600
500
400
300
200

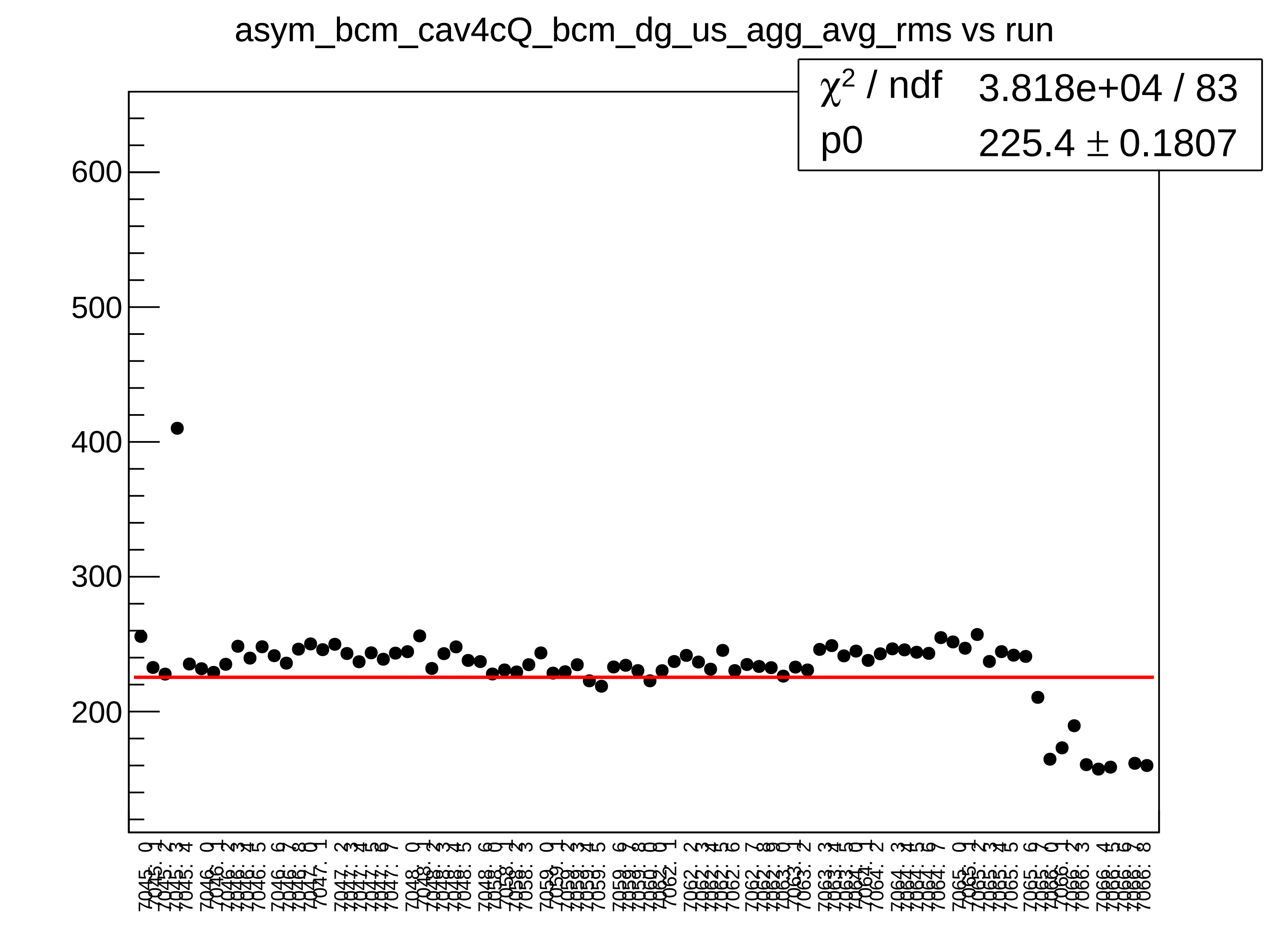

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ2 / ndf 73.29 / 83
p0 −34.7 ± 31.55
pull
Entries 84
Mean −96.49
Std Dev 95.89
pull1D
Entries 84
Mean 0.004523
Std Dev 0.9341



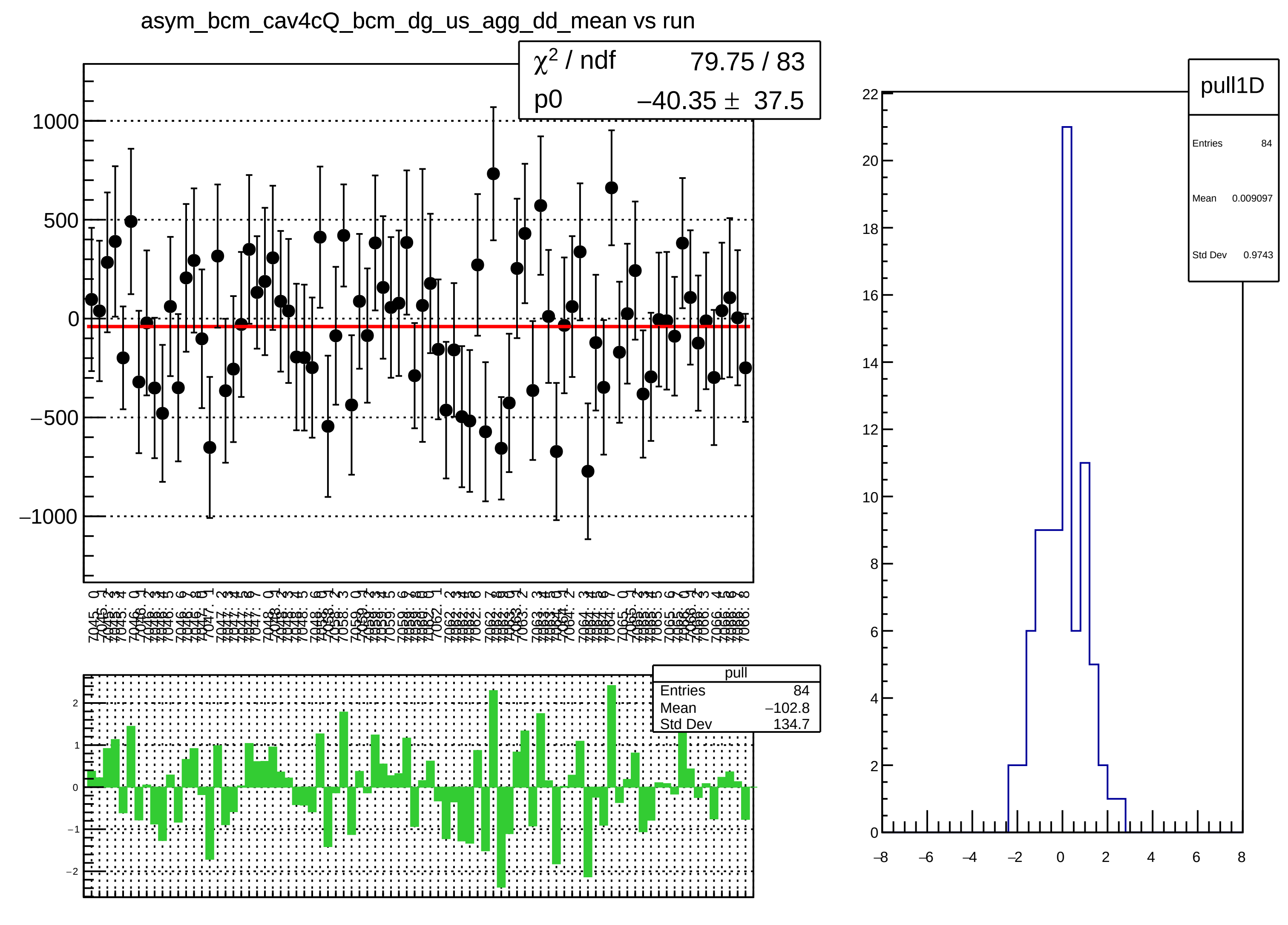
asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
$\chi^2$ / ndf 2745 / 83
p0 28.15 ± 0.02231
32
31
30
29
28
27
26



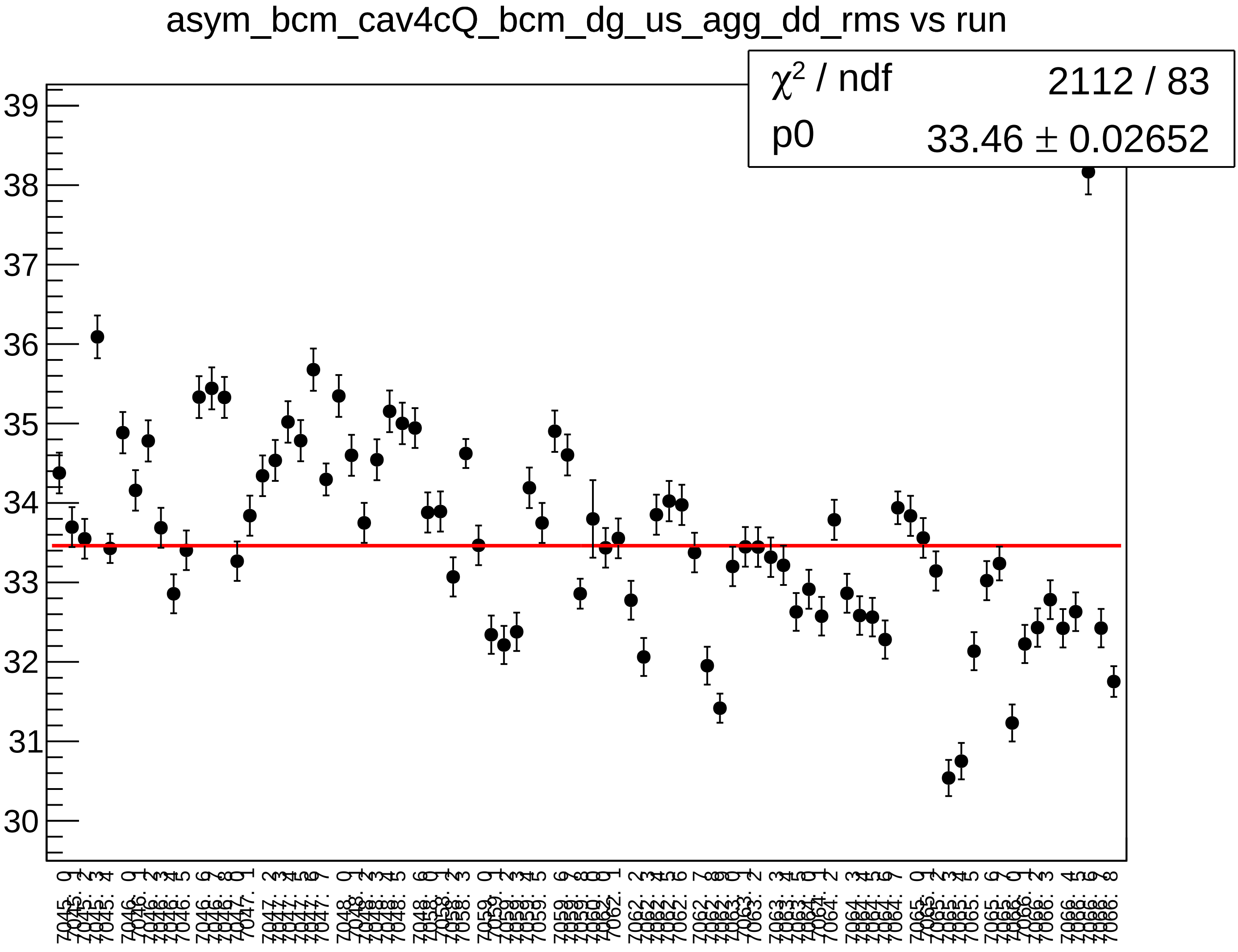
asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
$\chi^2$ / ndf 14.96 / 83
p0 −155.3 ± 255.5
pull
Entries 84
Mean −34.33
Std Dev 73.57
pull1D
Entries 84
Mean −0.00734
Std Dev 0.422

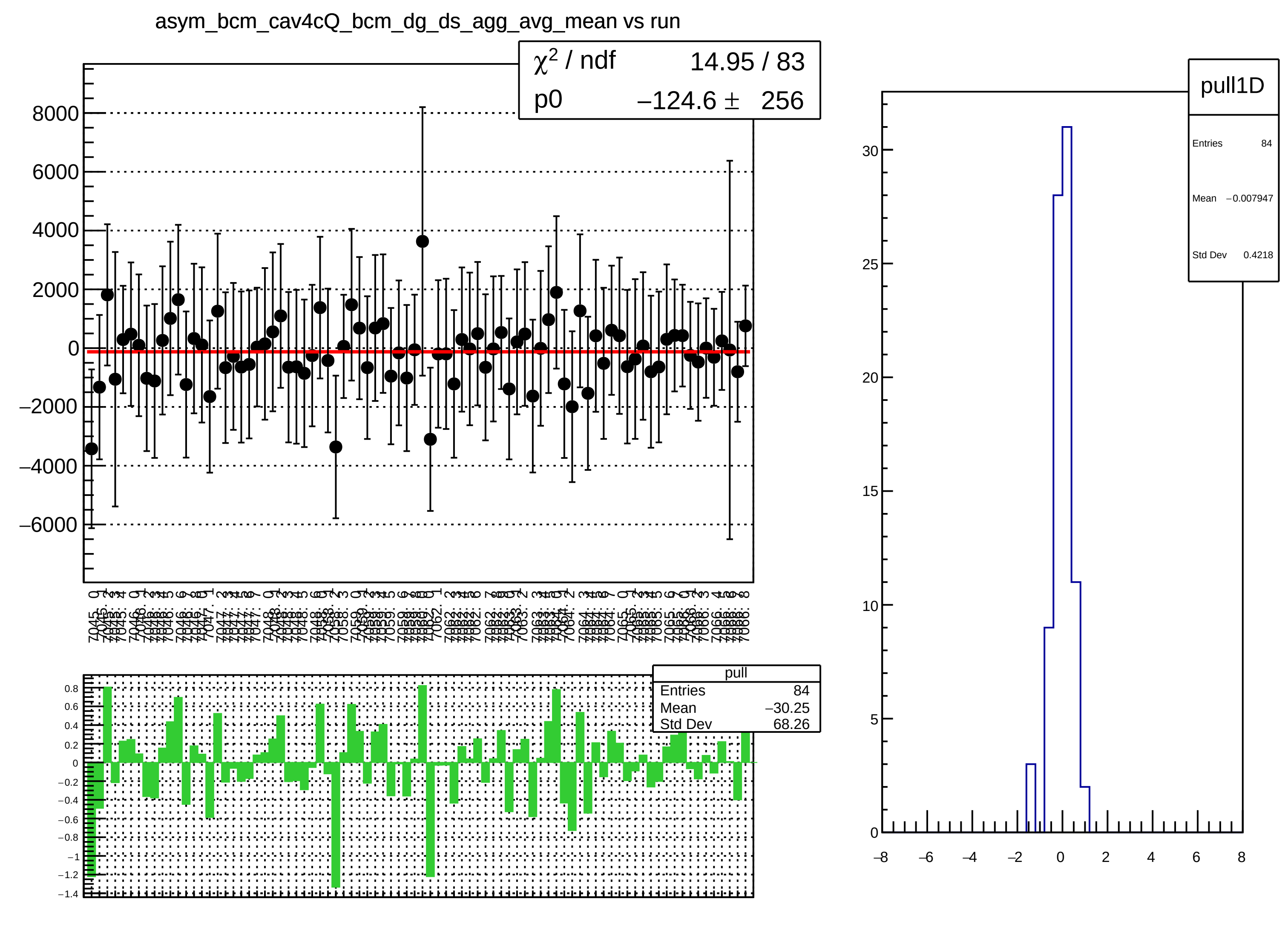


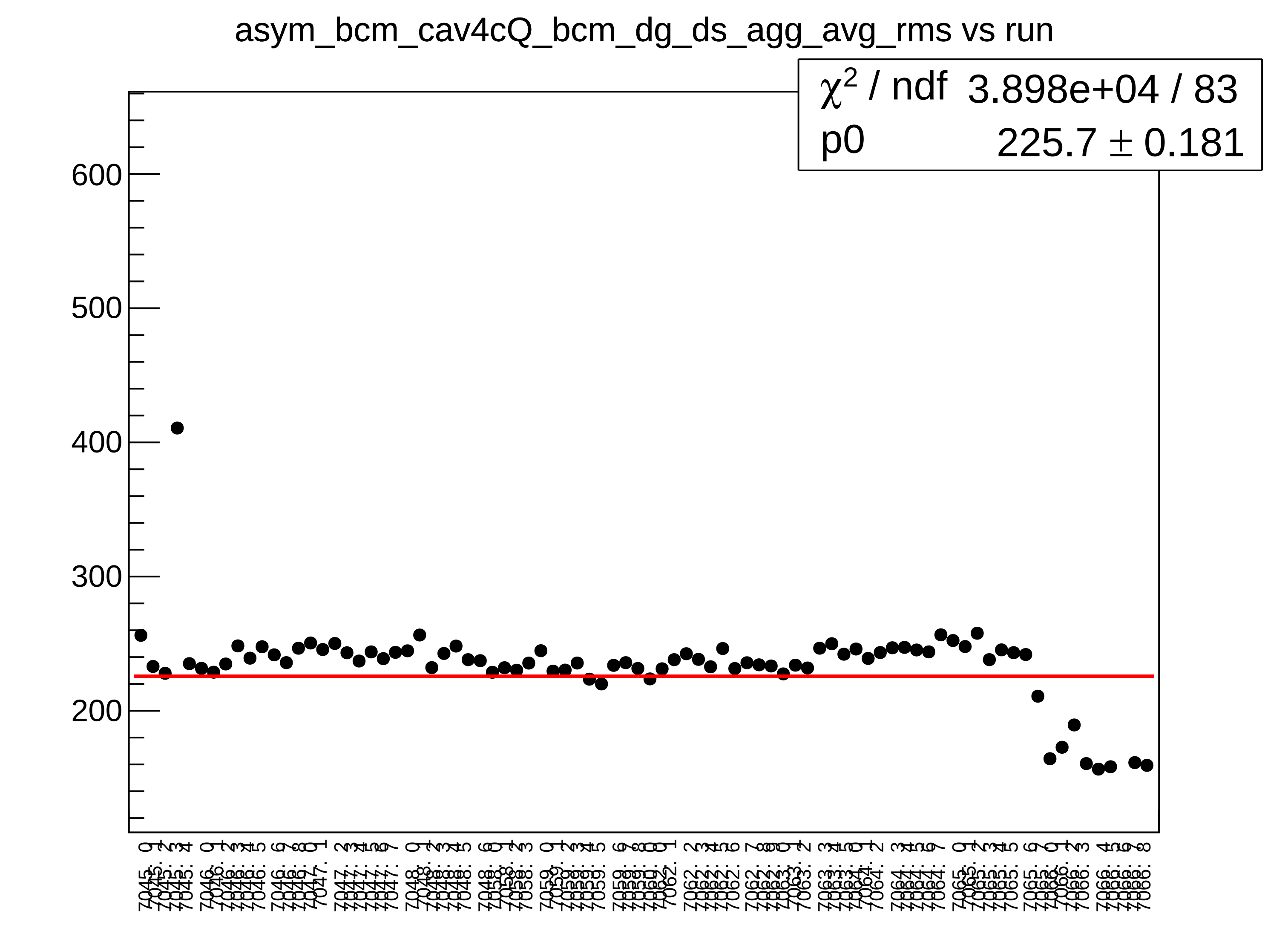
asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
$\chi^2$ / ndf 3.818e+04 / 83
p0 225.4 ± 0.1807
600
500
400
300
200

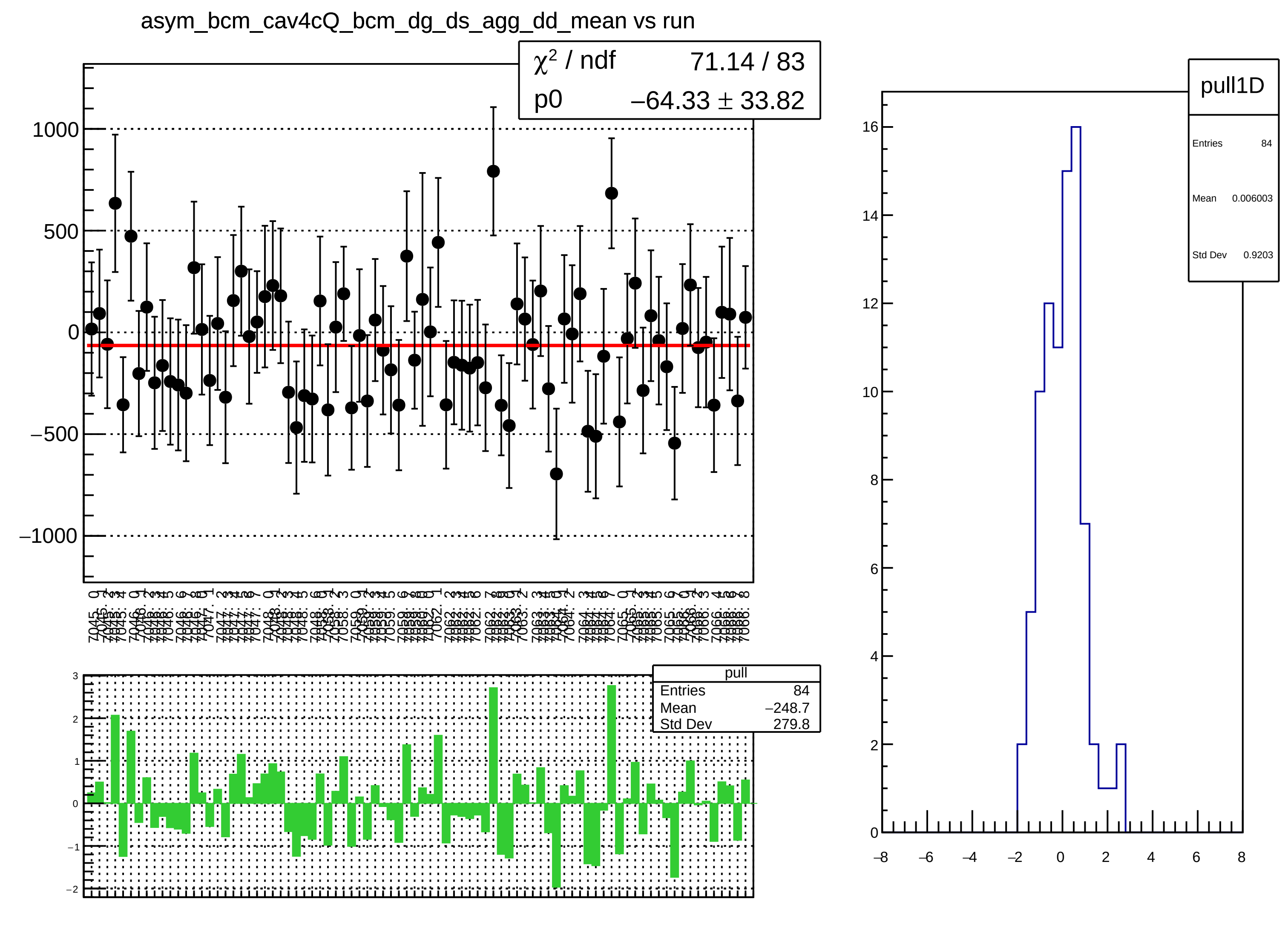


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
$\chi^2$ / ndf 79.75 / 83
p0 −40.35 ± 37.5
pull
Entries 84
Mean −102.8
Std Dev 134.7
pull1D
Entries 84
Mean 0.009097
Std Dev 0.9743

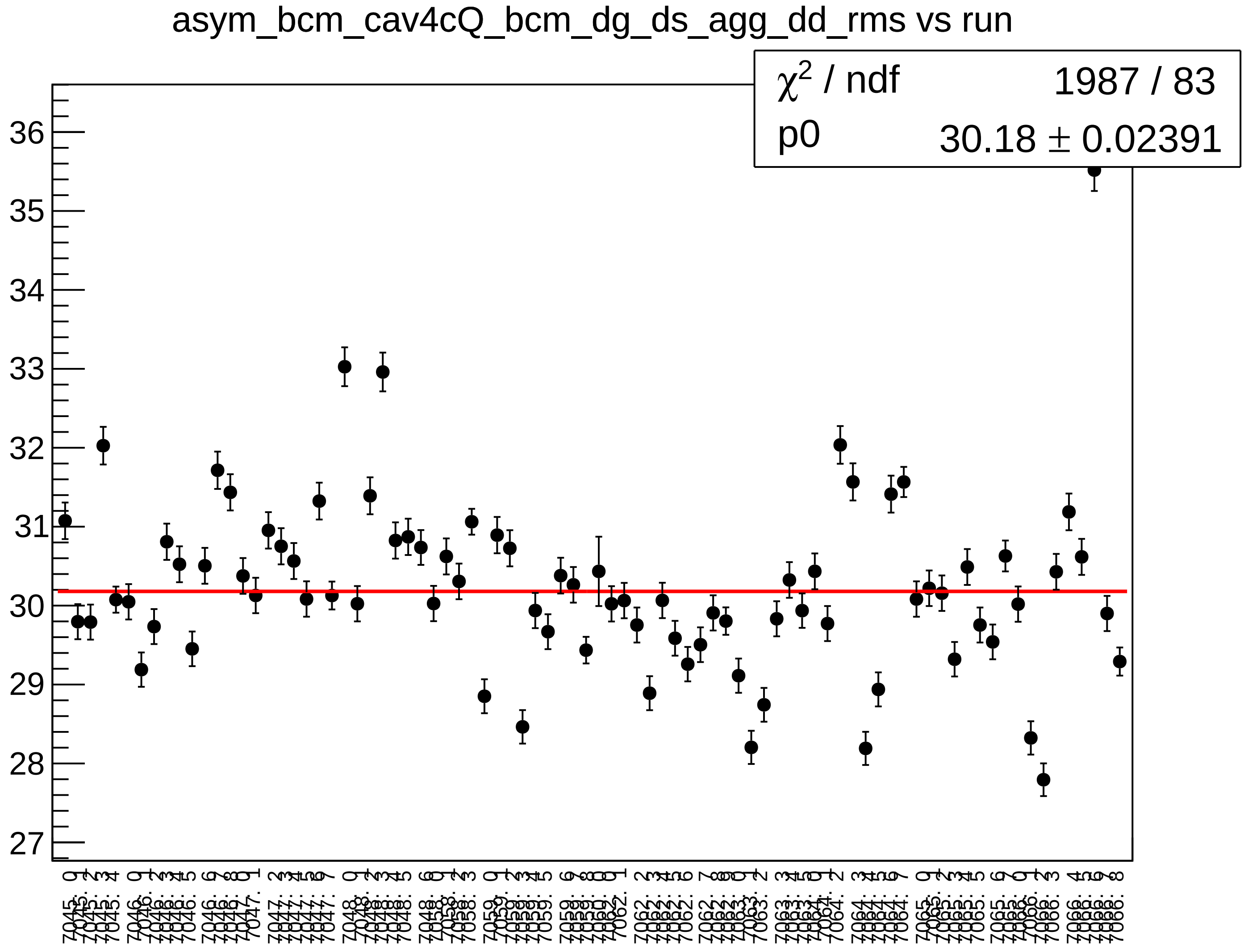

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
$\chi^2$ / ndf 2112 / 83
p0 33.46 ± 0.02652
39
38
37
36
35
34
33
32
31
30

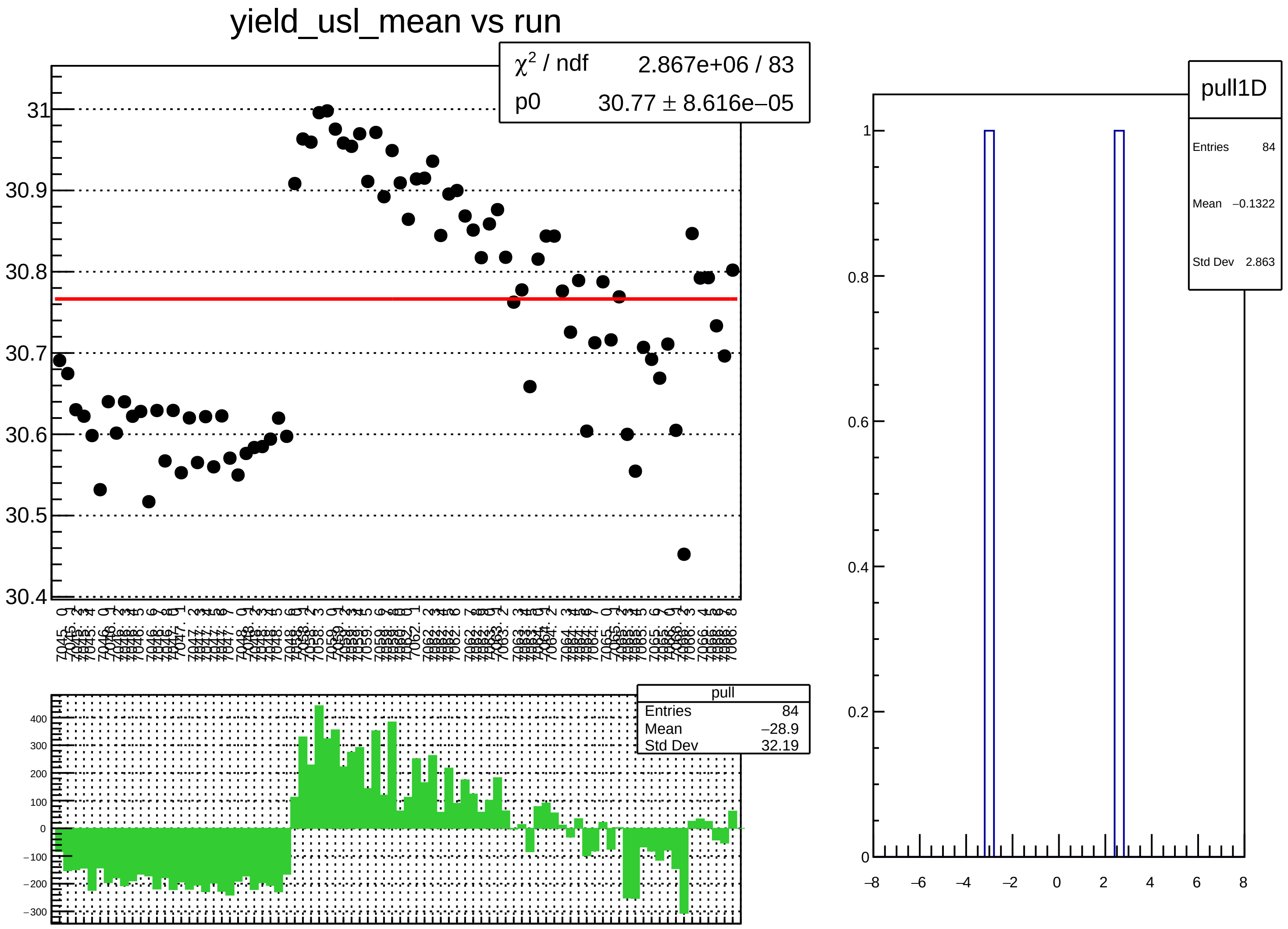

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
$\chi^2$ / ndf 14.95 / 83
p0 −124.6 ± 256
pull
Entries 84
Mean −30.25
Std Dev 68.26
pull1D
Entries 84
Mean −0.007947
Std Dev 0.4218


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
$\chi^2$ / ndf 3.898e+04 / 83
p0 225.7 ± 0.181
600
500
400
300
200

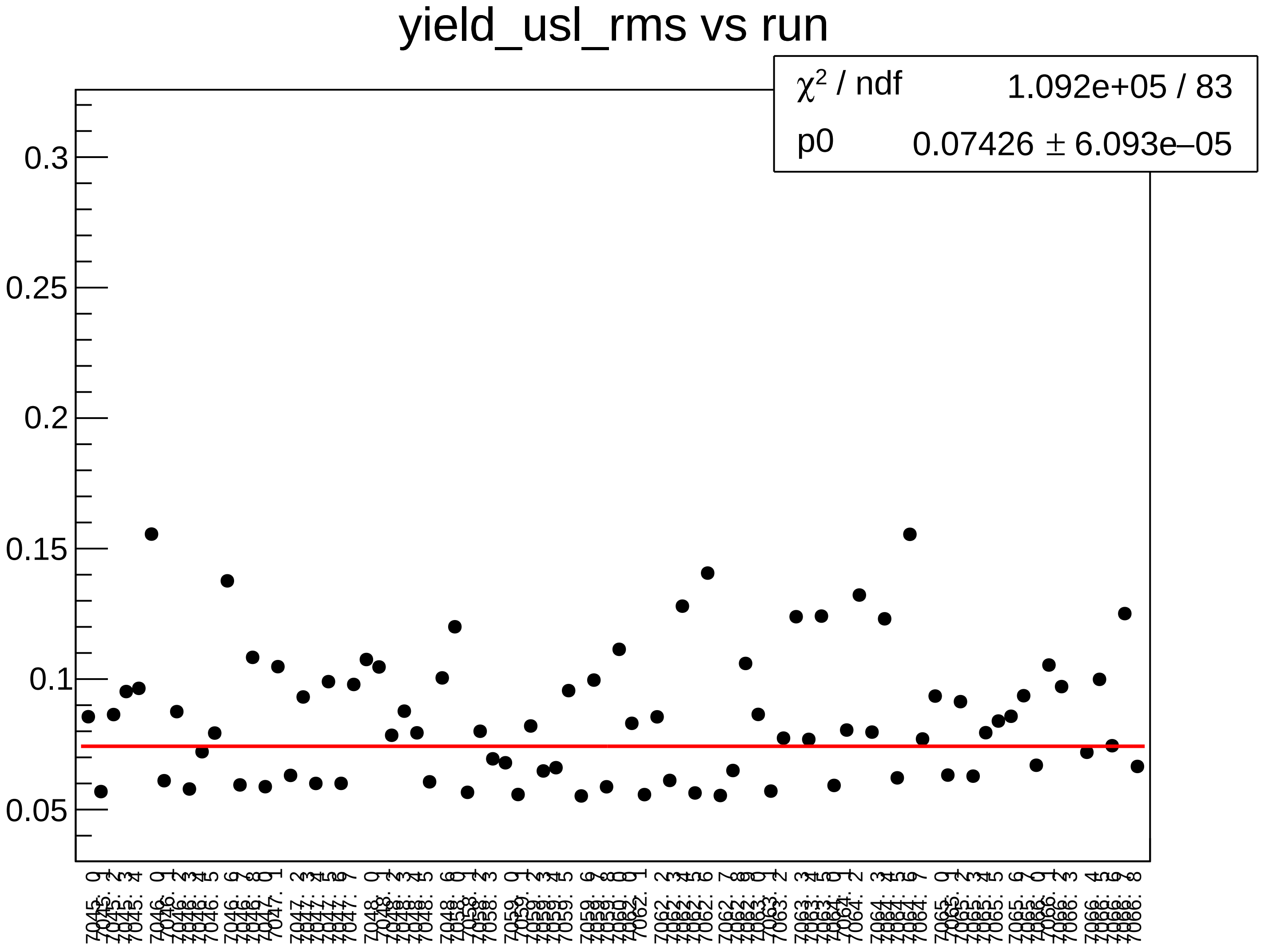


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
$\chi^2$ / ndf 71.14 / 83
p0 −64.33 ± 33.82
1000
500
0
−500
−1000
pull
Entries 84
Mean −248.7
Std Dev 279.8
pull1D
Entries 84
Mean 0.006003
Std Dev 0.9203

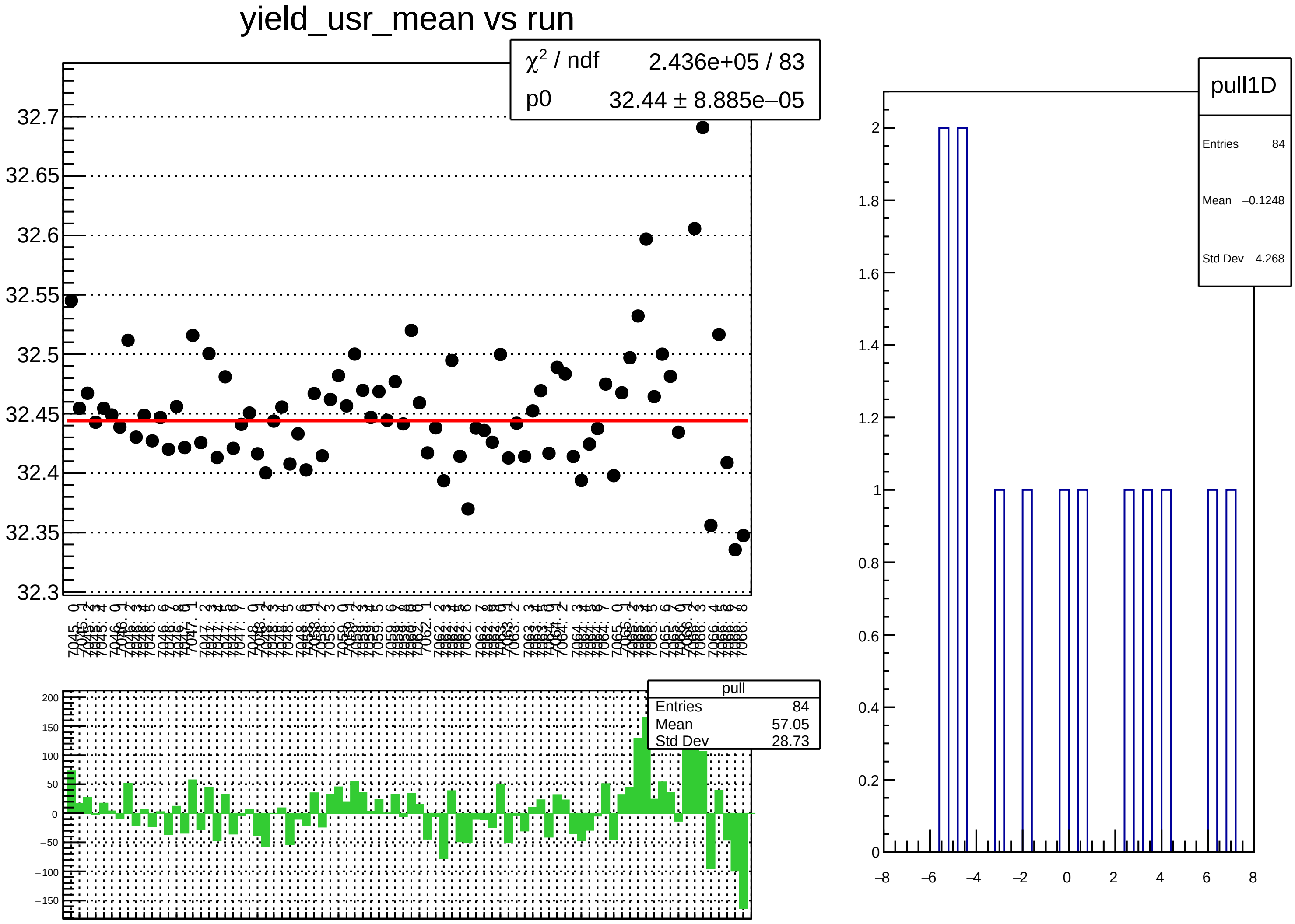

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ2 / ndf 1987 / 83
p0 30.18 ± 0.02391



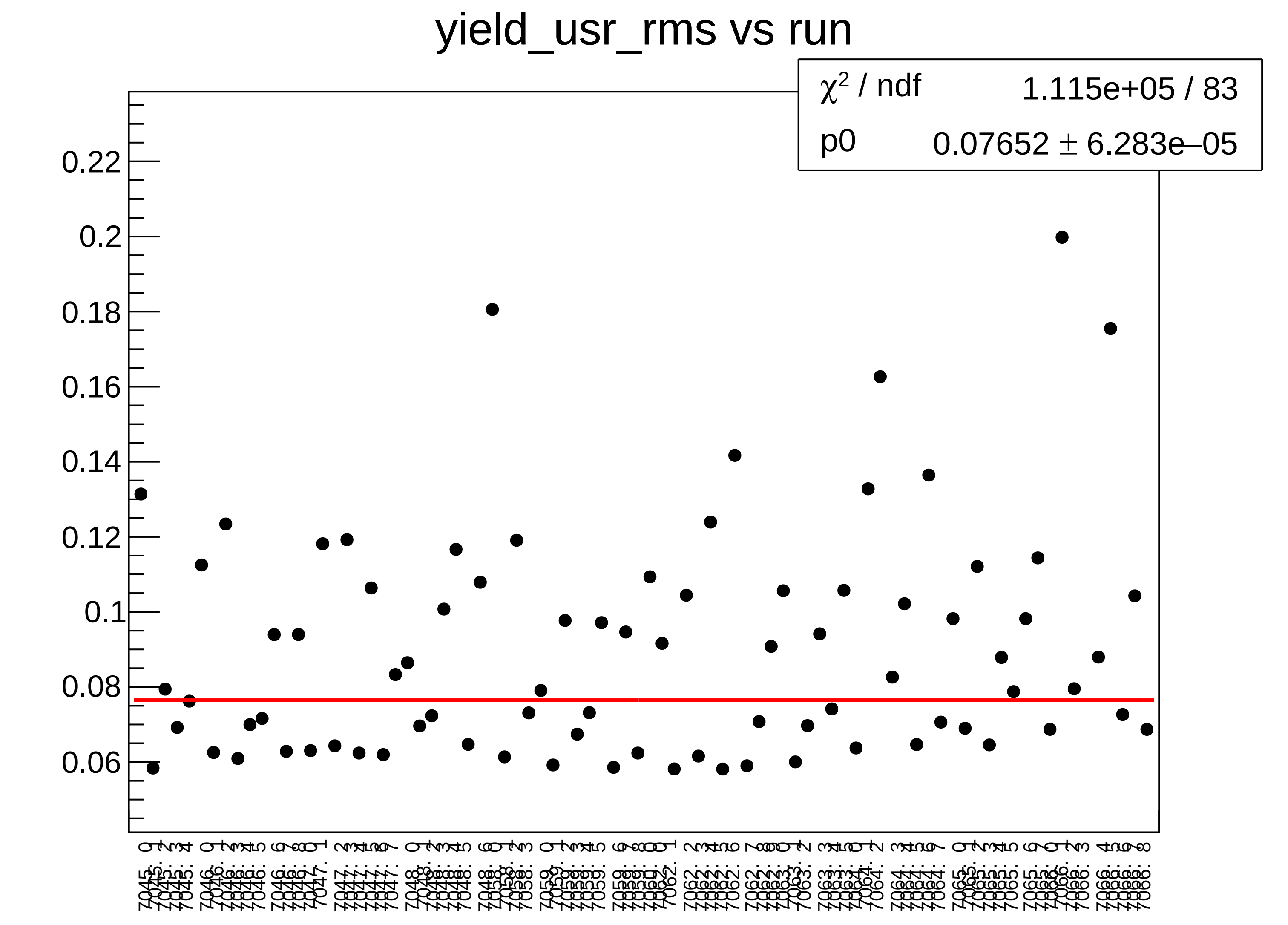
yield_usl_mean vs run
$\chi^2$ / ndf 2.867e+06 / 83
p0 30.77 ± 8.616e−05
pull
Entries 84
Mean −28.9
Std Dev 32.19
pull1D
Entries 84
Mean −0.1322
Std Dev 2.863

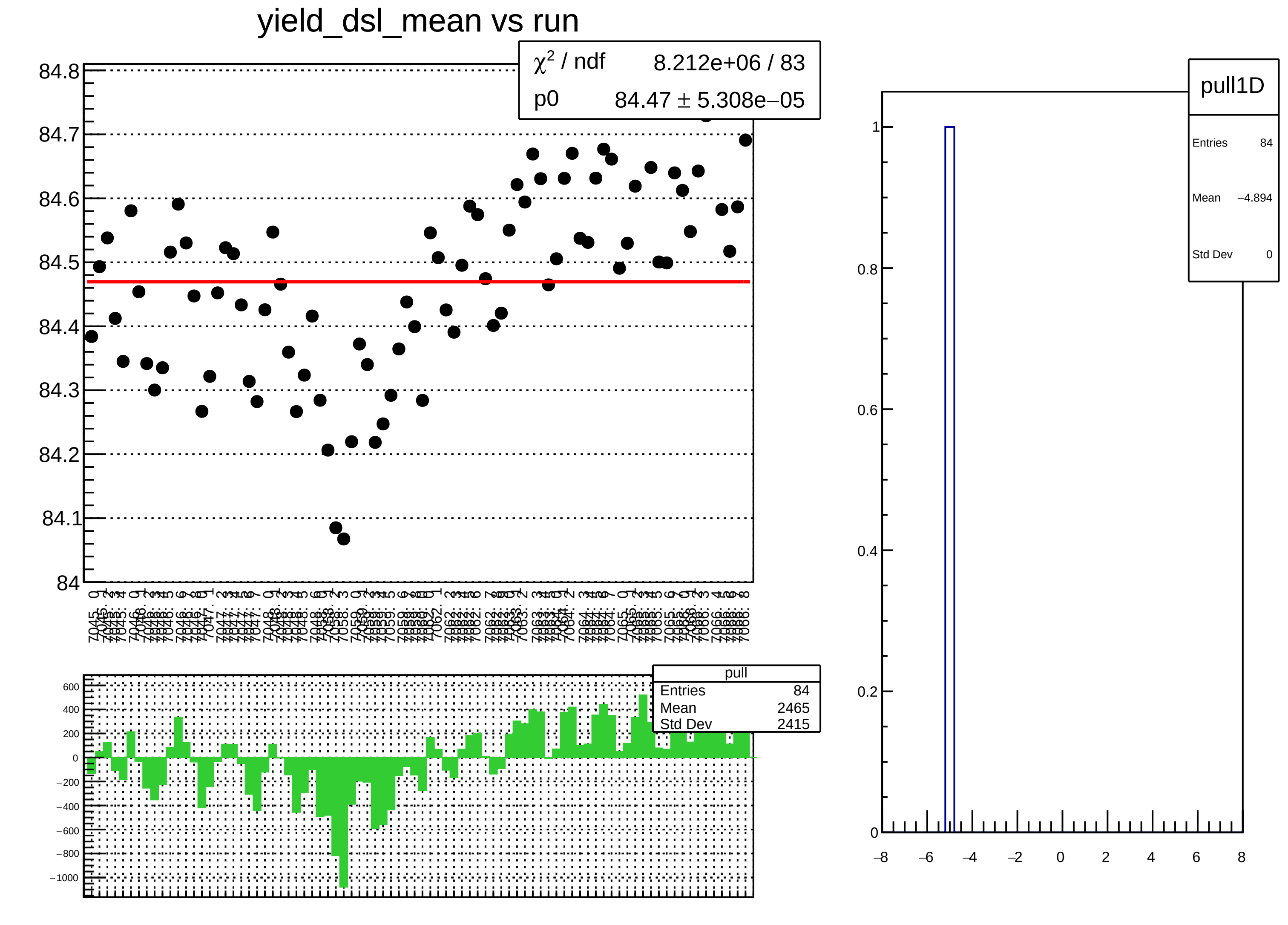


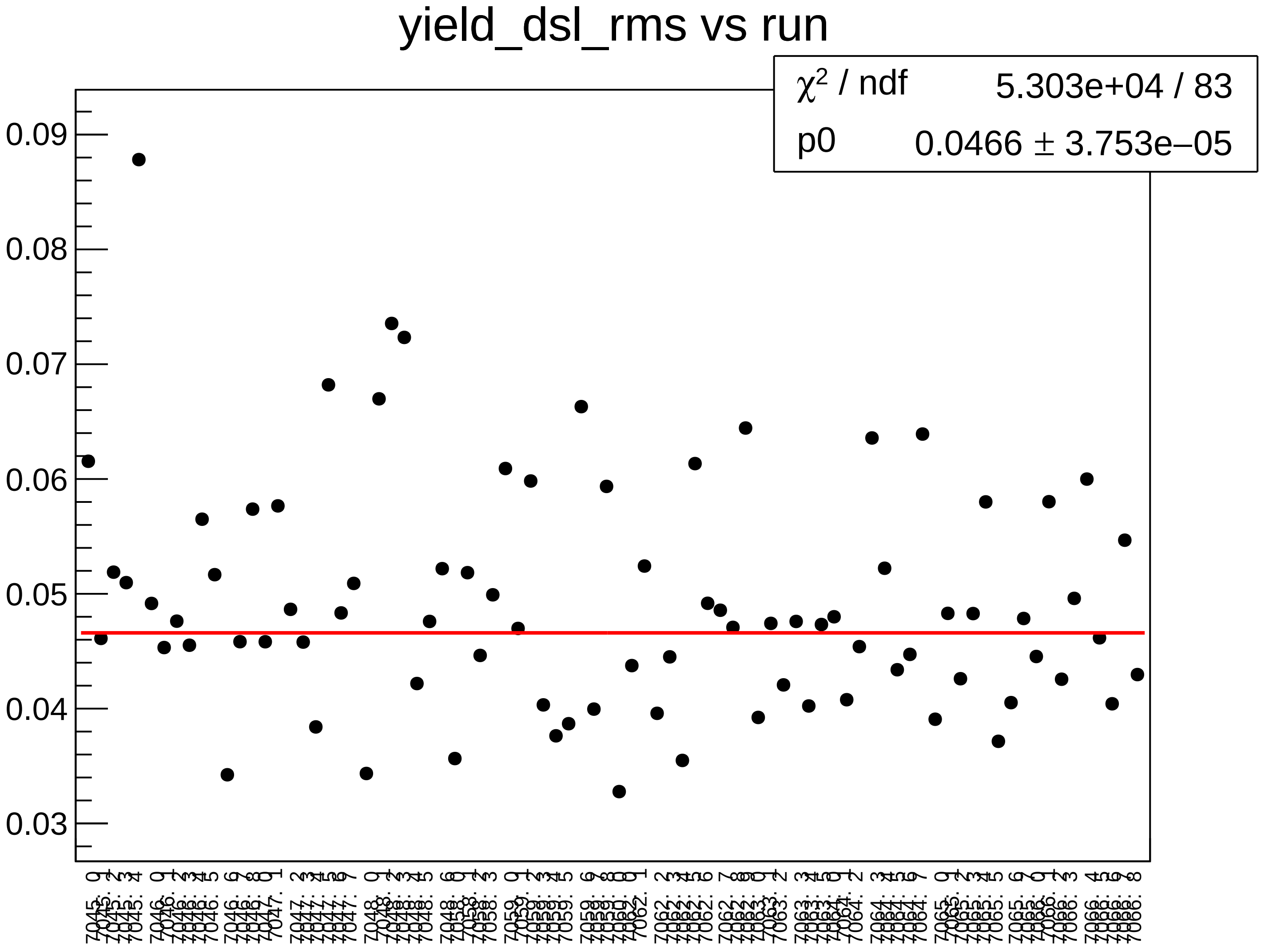
yield_usl_rms vs run
$\chi^2$ / ndf 1.092e+05 / 83
p0 0.07426 ± 6.093e−05



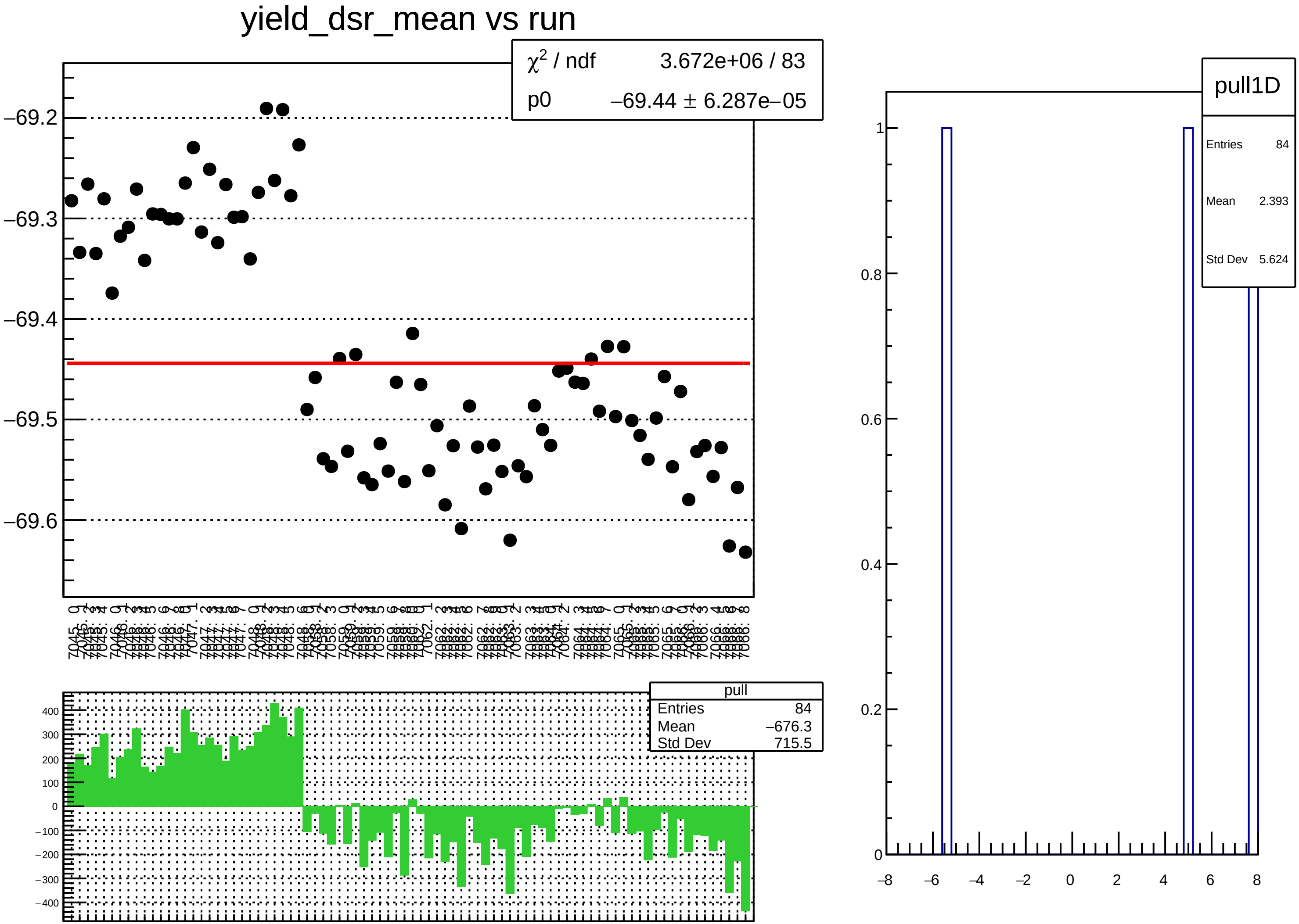
yield_usr_mean vs run
$\chi^2$ / ndf 2.436e+05 / 83
p0 32.44 ± 8.885e−05
32.7
32.65
32.6
32.55
32.5
32.45
32.4
32.35
32.3
pull
Entries 84
Mean 57.05
Std Dev 28.73
200
150
100
50
0
−50
−100
−150
pull1D
Entries 84
Mean −0.1248
Std Dev 4.268
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

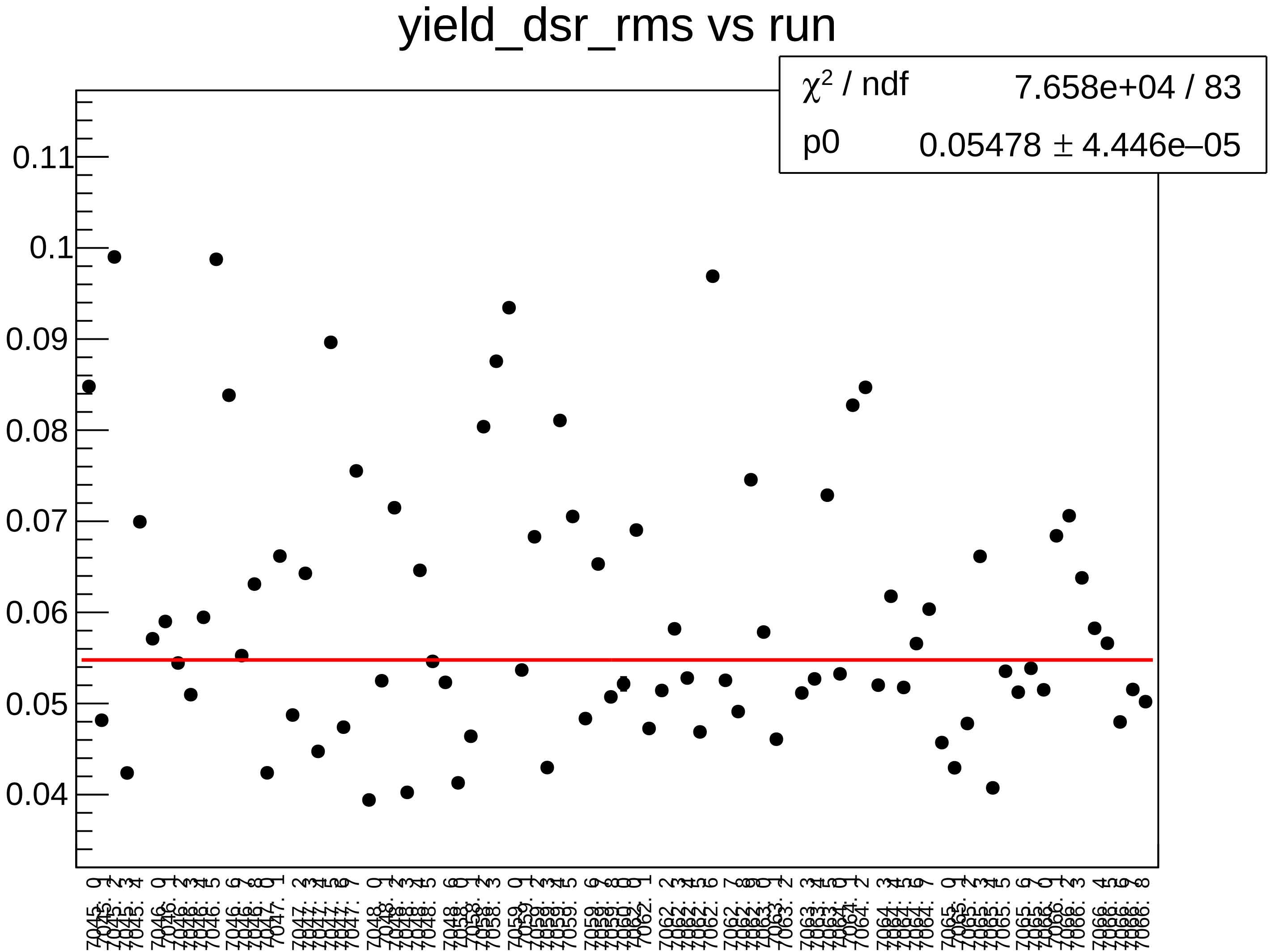

yield_usr_rms vs run
χ2 / ndf 1.115e+05 / 83
p0 0.07652 ± 6.283e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

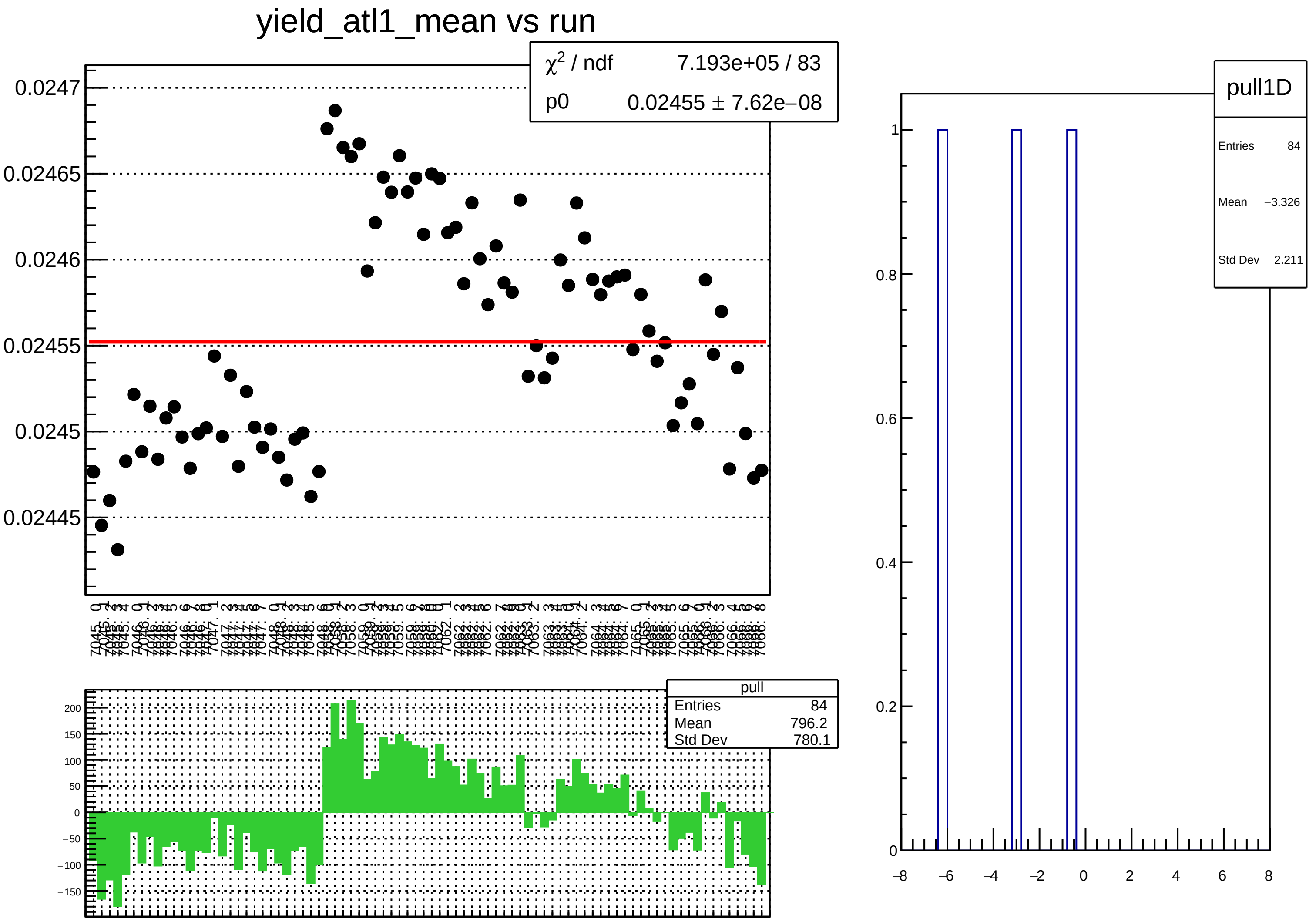

yield_dsl_mean vs run
$\chi^2$ / ndf 8.212e+06 / 83
p0 84.47 ± 5.308e−05
84.8
84.7
84.6
84.5
84.4
84.3
84.2
84.1
84
pull
Entries 84
Mean 2465
Std Dev 2415
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 84
Mean −4.894
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



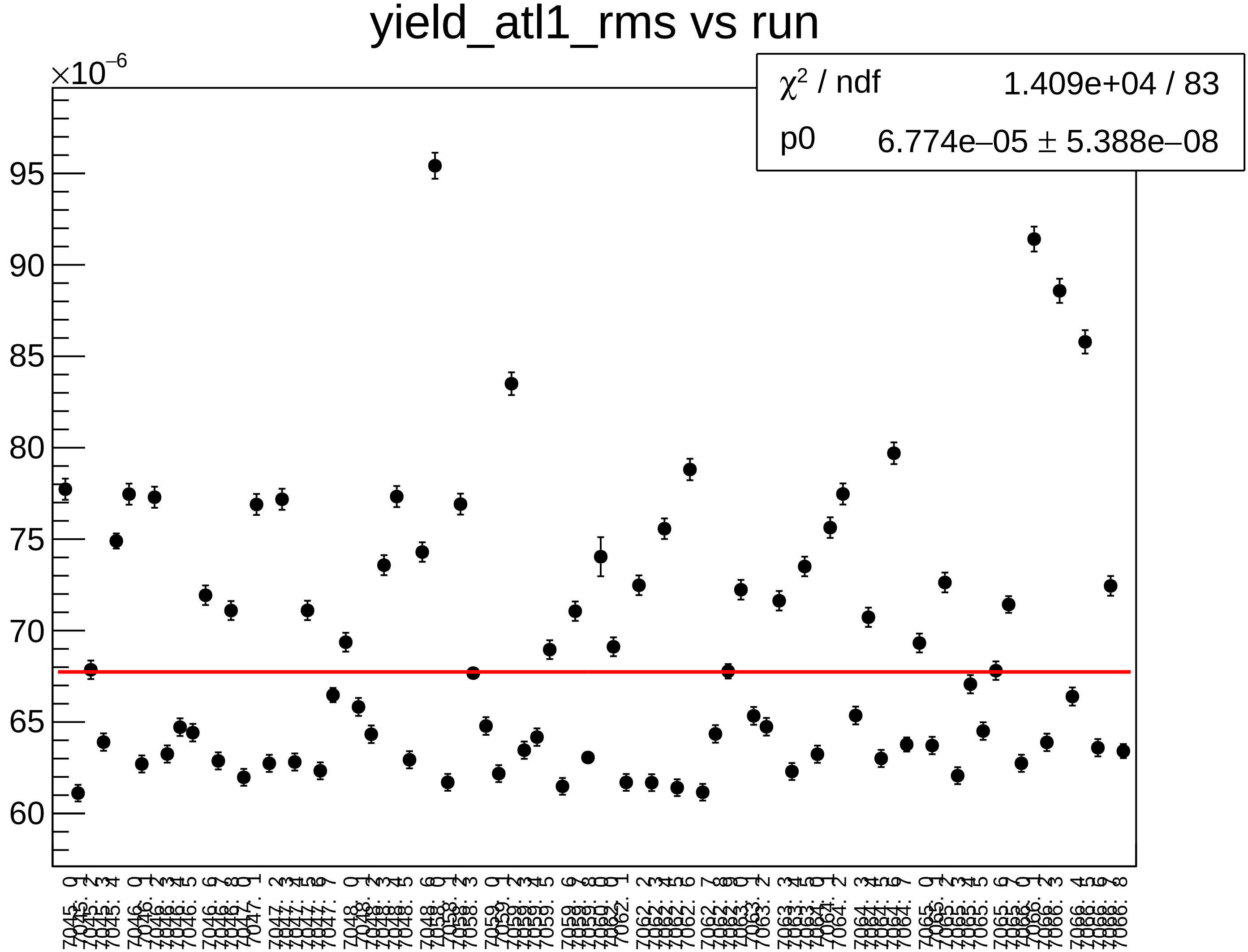
yield_dsl_rms vs run
$\chi^2$ / ndf 5.303e+04 / 83
p0 0.0466 ± 3.753e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03


yield_dsr_mean vs run
$\chi^2$ / ndf 3.672e+06 / 83
p0 −69.44 ± 6.287e−05
pull
Entries 84
Mean −676.3
Std Dev 715.5
pull1D
Entries 84
Mean 2.393
Std Dev 5.624

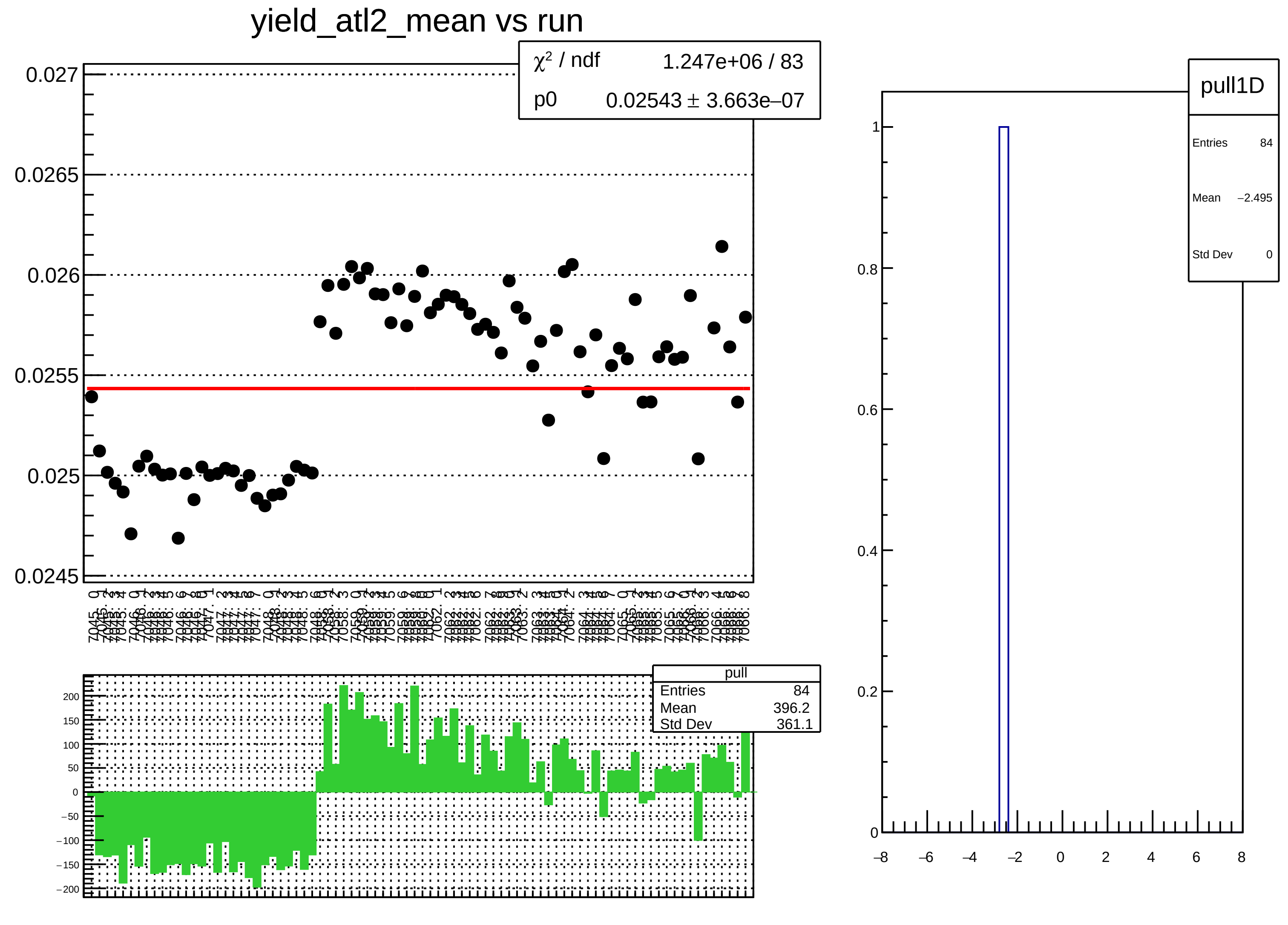

yield_dsr_rms vs run
χ2 / ndf 7.658e+04 / 83
p0 0.05478 ± 4.446e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04



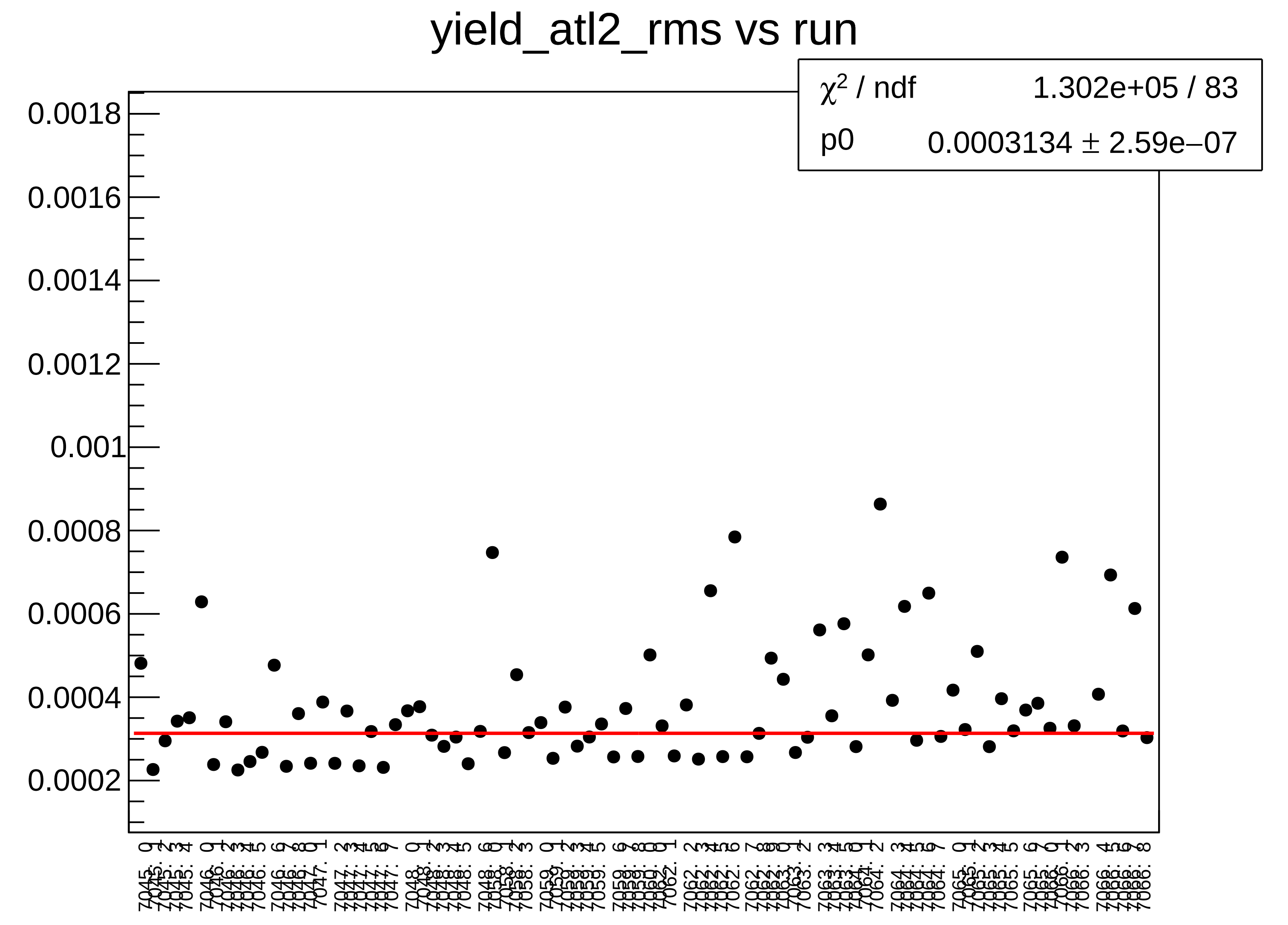
yield_atl1_mean vs run
$\chi^2$ / ndf 7.193e+05 / 83
p0 0.02455 ± 7.62e−08
0.0247
0.02465
0.0246
0.02455
0.0245
0.02445
pull
Entries 84
Mean 796.2
Std Dev 780.1
200
150
100
50
0
−50
−100
−150
pull1D
Entries 84
Mean −3.326
Std Dev 2.211
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

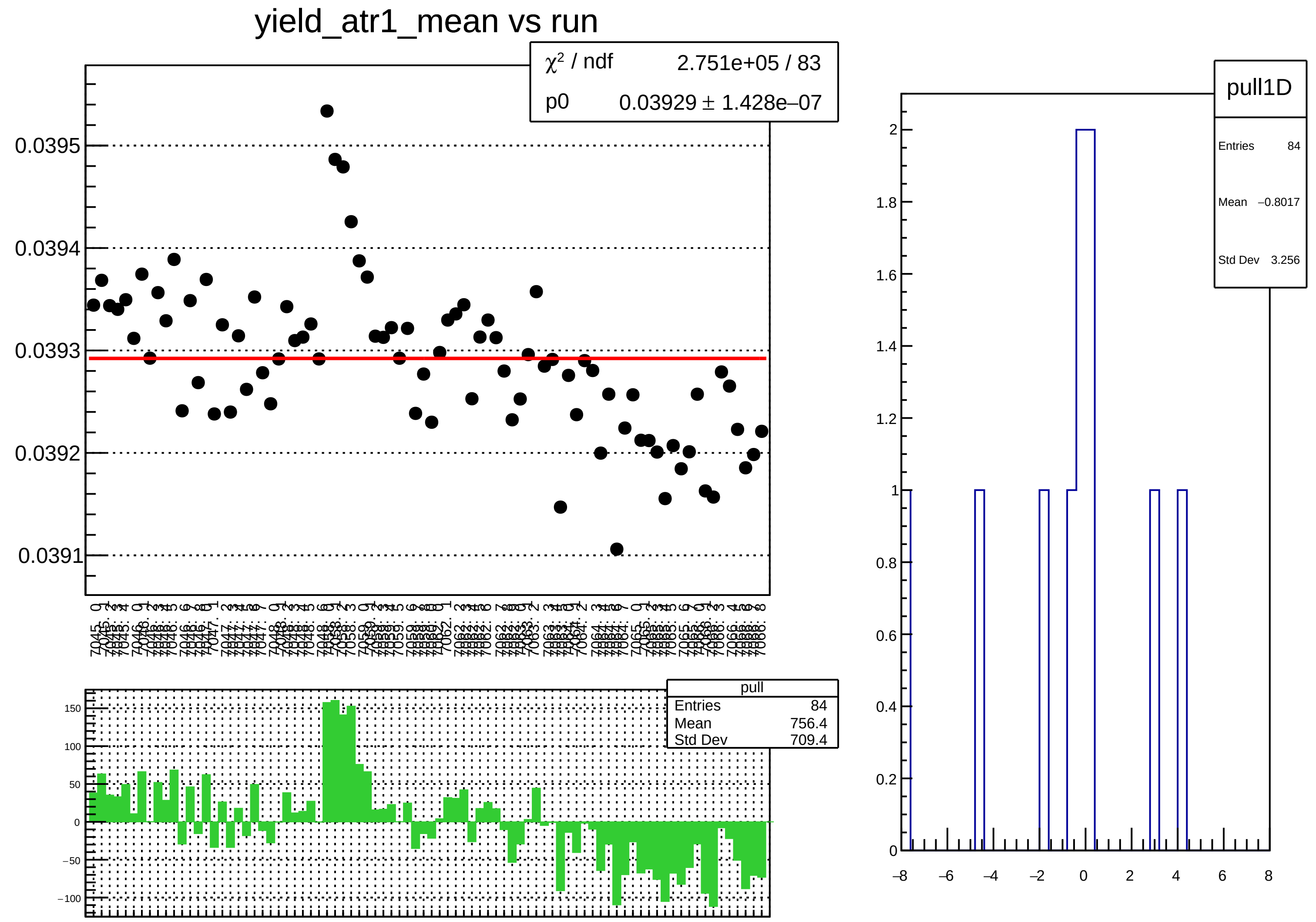


yield_atl1_rms vs run
$\times10^{-6}$
$\chi^2$ / ndf 1.409e+04 / 83
p0 6.774e−05 ± 5.388e−08
95
90
85
80
75
70
65
60

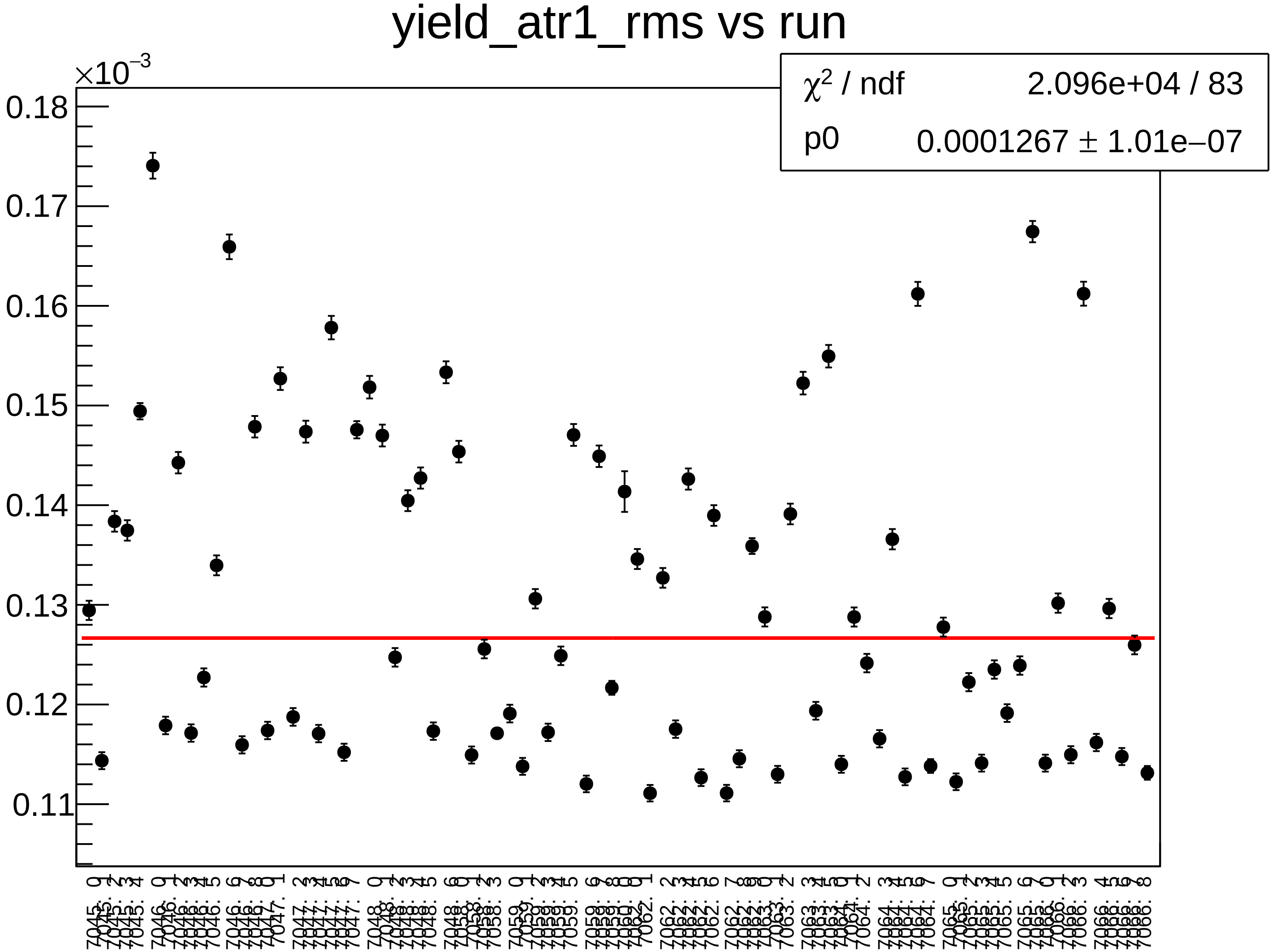


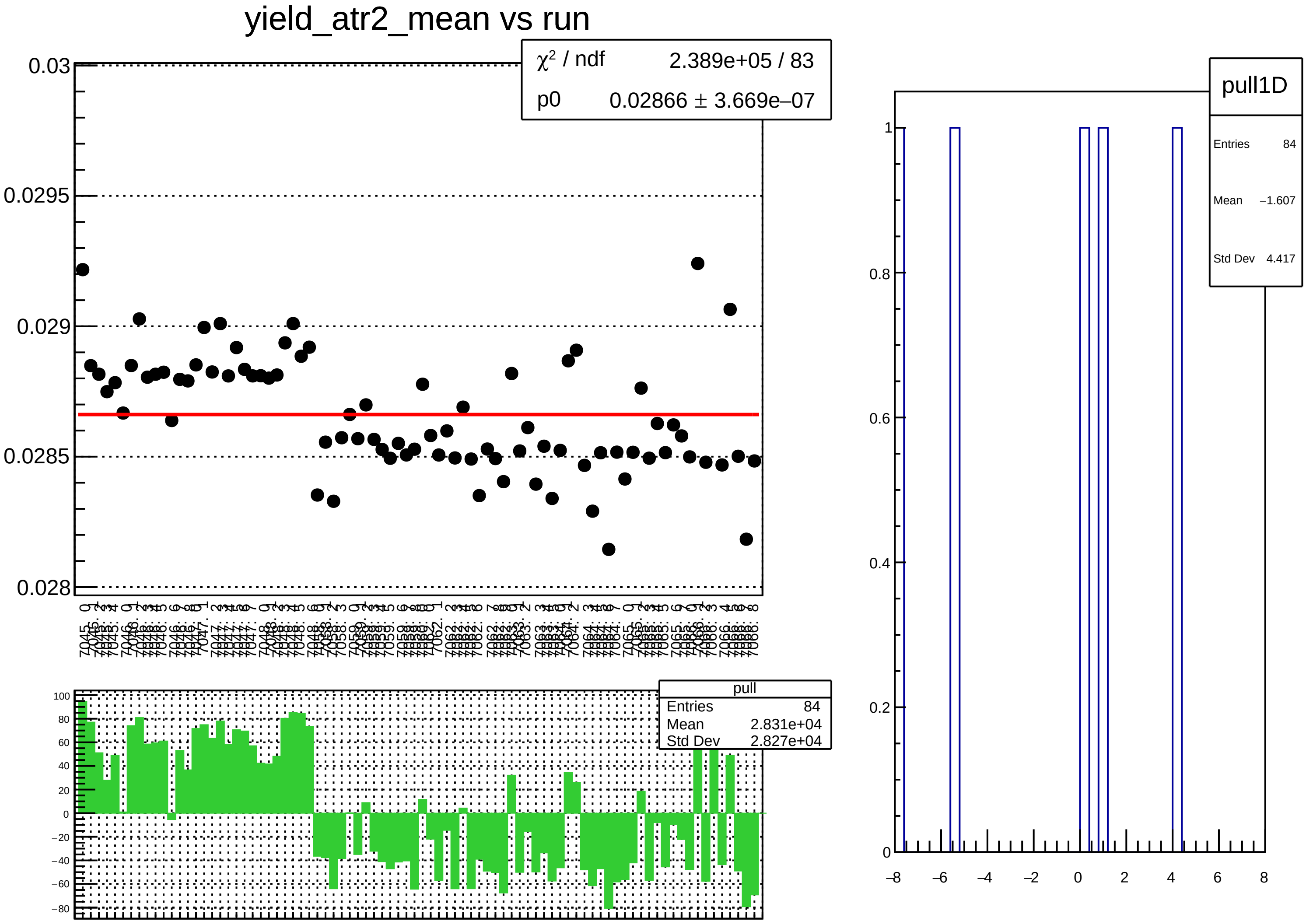
yield_atl2_mean vs run
χ² / ndf 1.247e+06 / 83
p0 0.02543 ± 3.663e−07
0.027
0.0265
0.026
0.0255
0.025
0.0245
pull
Entries 84
Mean 396.2
Std Dev 361.1
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 84
Mean −2.495
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_atl2_rms vs run
$\chi^2$ / ndf 1.302e+05 / 83
p0 0.0003134 ± 2.59e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

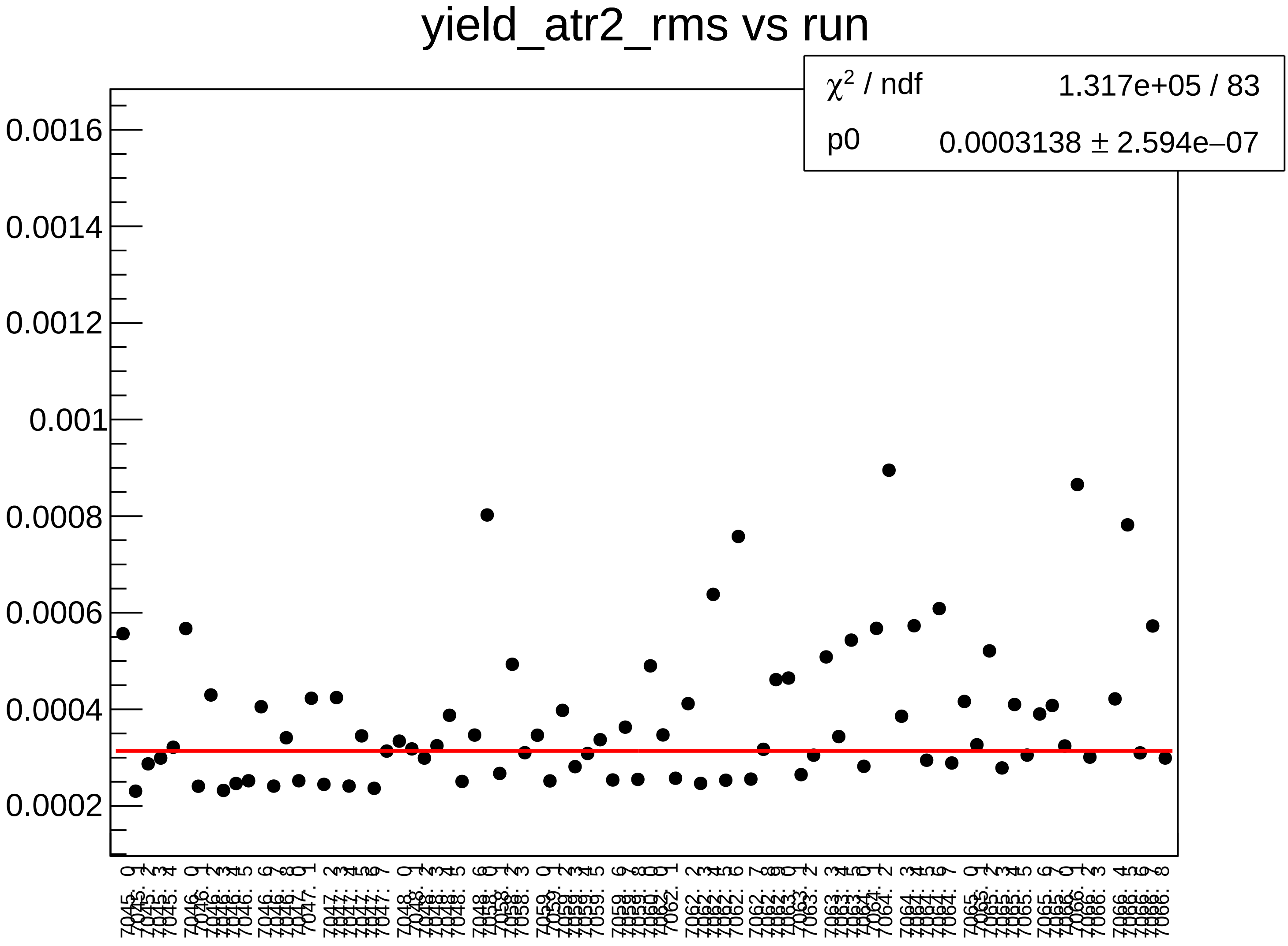


yield_atr1_mean vs run
χ2 / ndf 2.751e+05 / 83
p0 0.03929 ± 1.428e−07
0.0395
0.0394
0.0393
0.0392
0.0391
pull
Entries 84
Mean 756.4
Std Dev 709.4
150
100
50
0
−50
−100
pull1D
Entries 84
Mean −0.8017
Std Dev 3.256
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

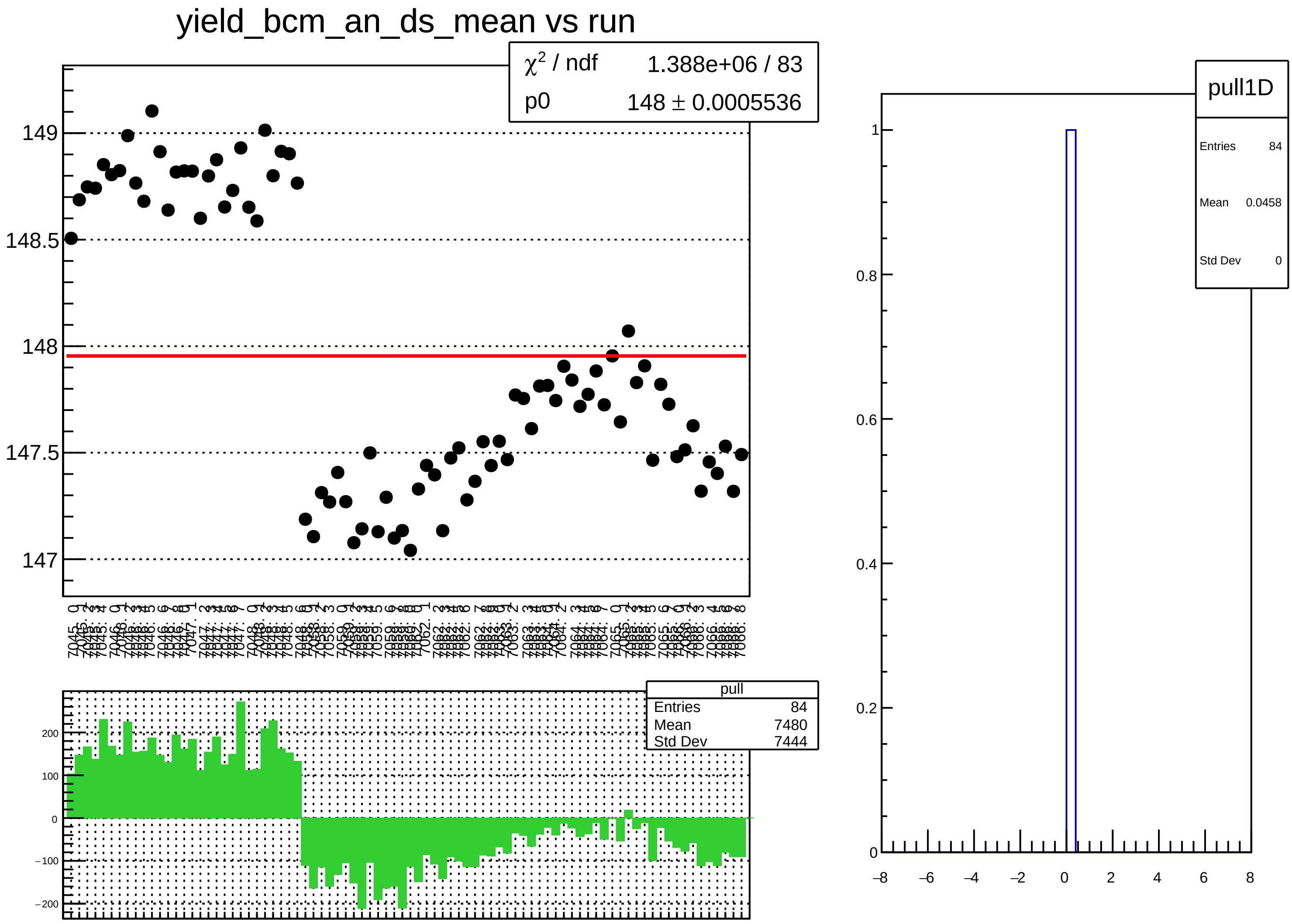

yield_atr1_rms vs run
×10⁻³
χ2 / ndf 2.096e+04 / 83
p0 0.0001267 ± 1.01e−07
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11



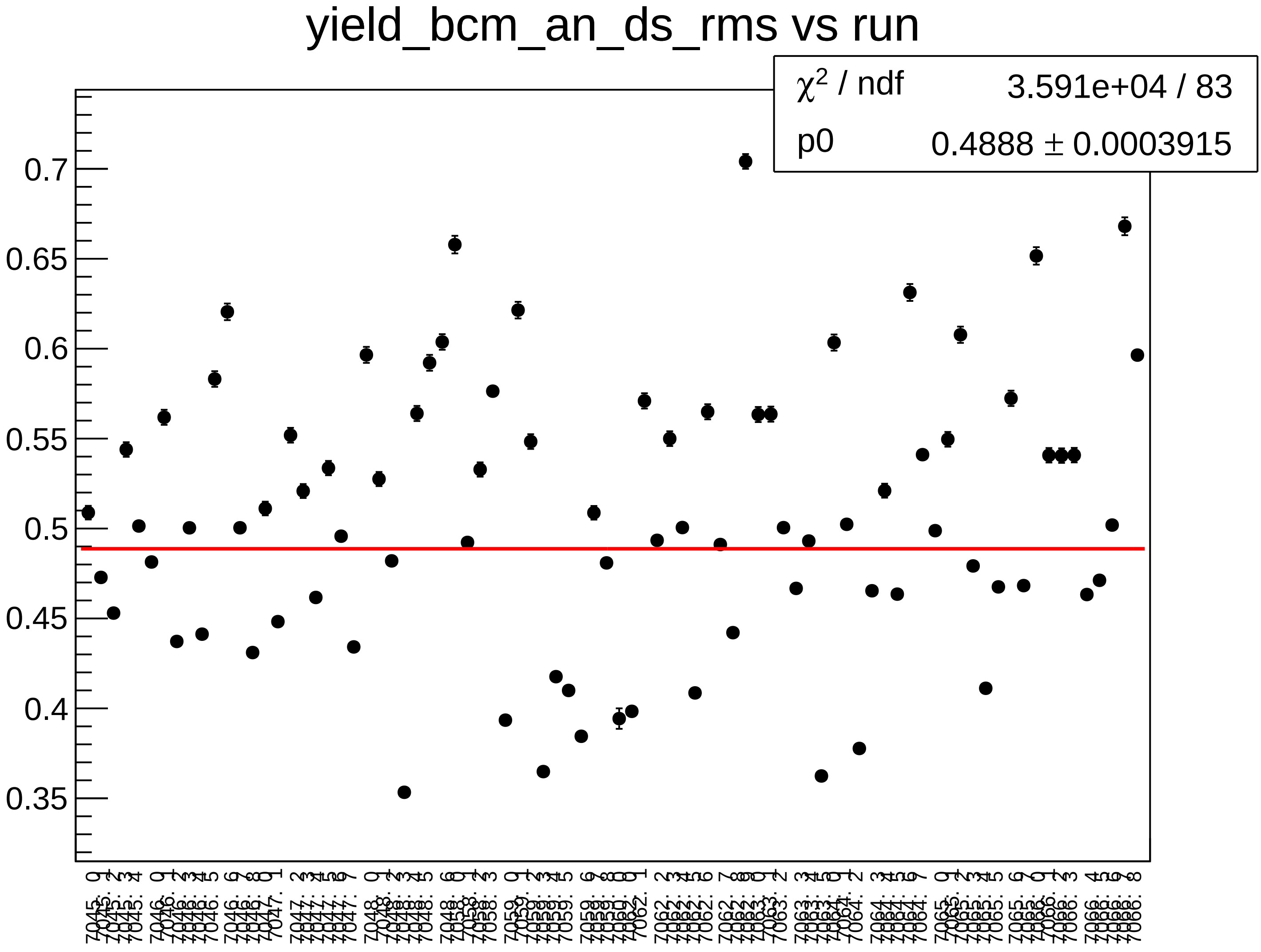
yield_atr2_mean vs run
χ² / ndf 2.389e+05 / 83
p0 0.02866 ± 3.669e−07
pull
Entries 84
Mean 2.831e+04
Std Dev 2.827e+04
pull1D
Entries 84
Mean −1.607
Std Dev 4.417



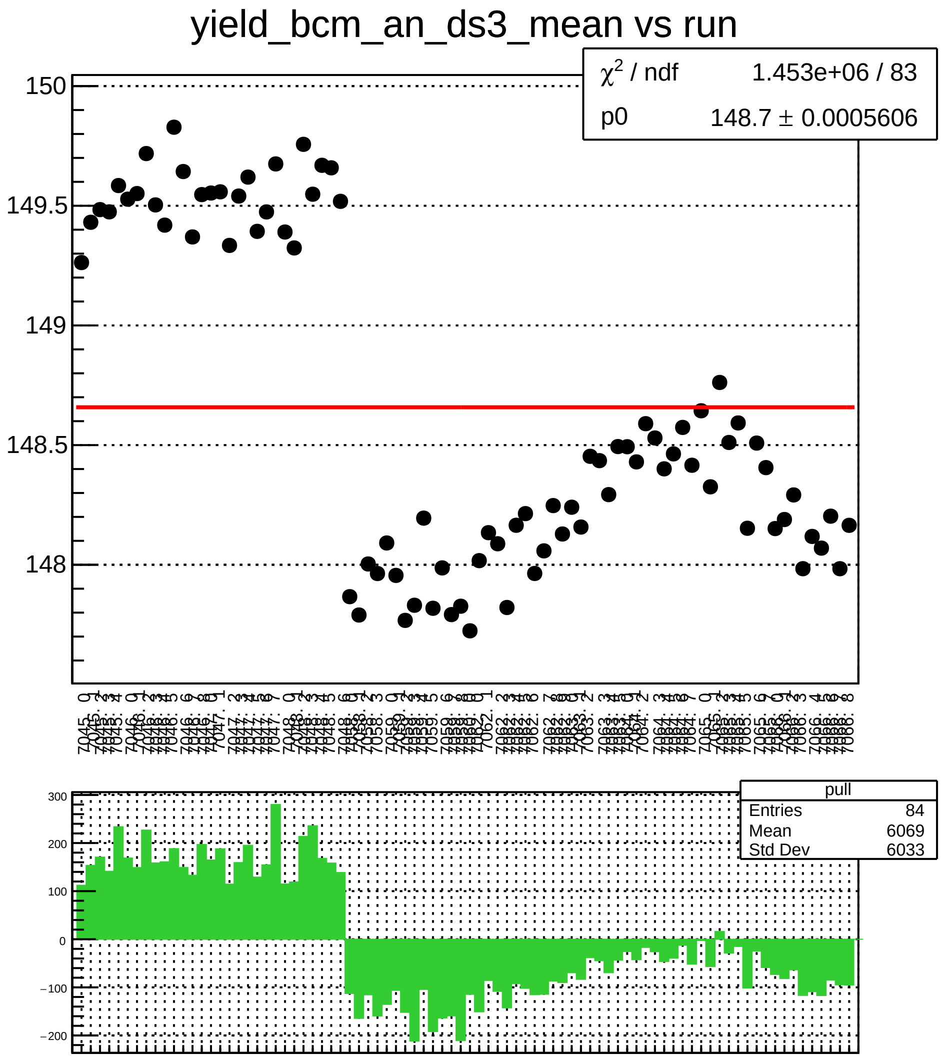
yield_atr2_rms vs run
$\chi^2$ / ndf 1.317e+05 / 83
p0 0.0003138 ± 2.594e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

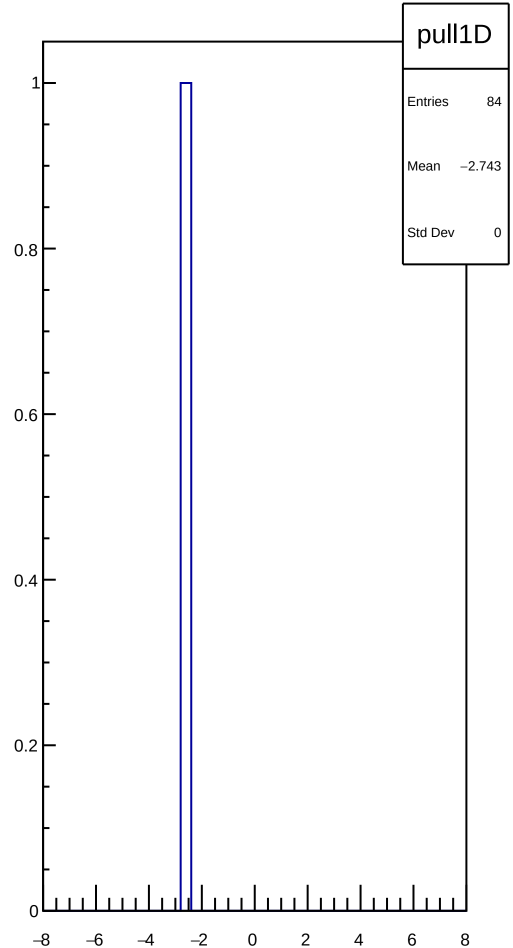


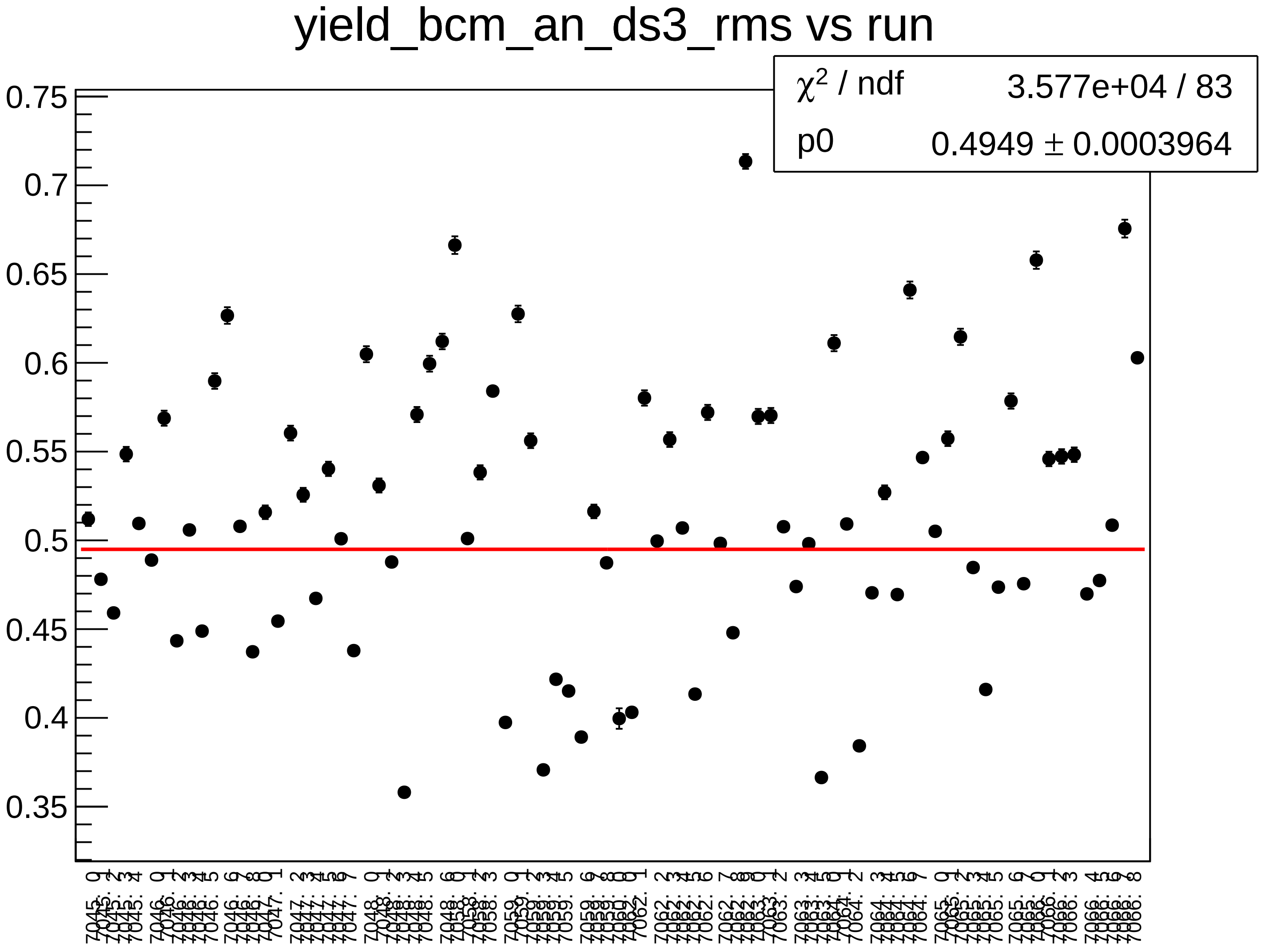
yield_bcm_an_ds_mean vs run
χ2 / ndf 1.388e+06 / 83
p0 148 ± 0.0005536
149
148.5
148
147.5
147
pull
Entries 84
Mean 7480
Std Dev 7444
200
100
0
−100
−200
pull1D
Entries 84
Mean 0.0458
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8 −6 −4 −2 0 2 4 6 8



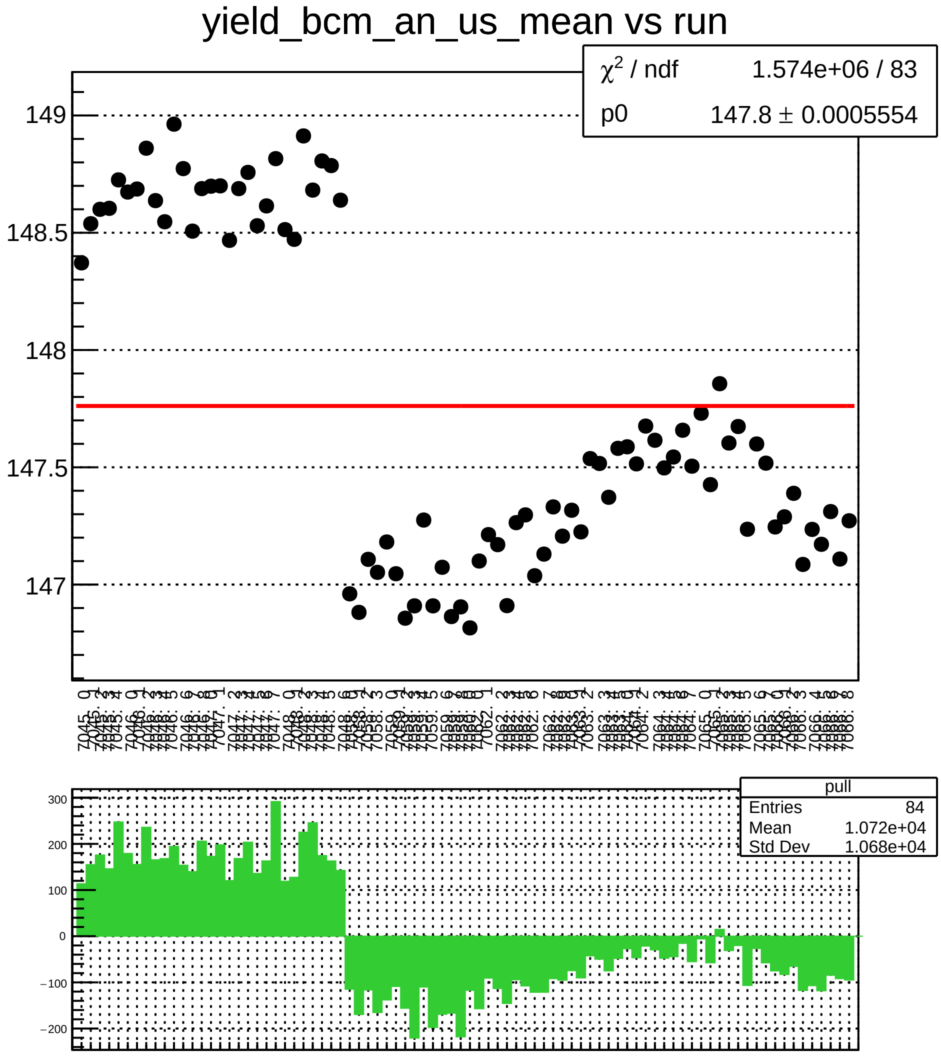
yield_bcm_an_ds_rms vs run
χ2 / ndf 3.591e+04 / 83
p0 0.4888 ± 0.0003915
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

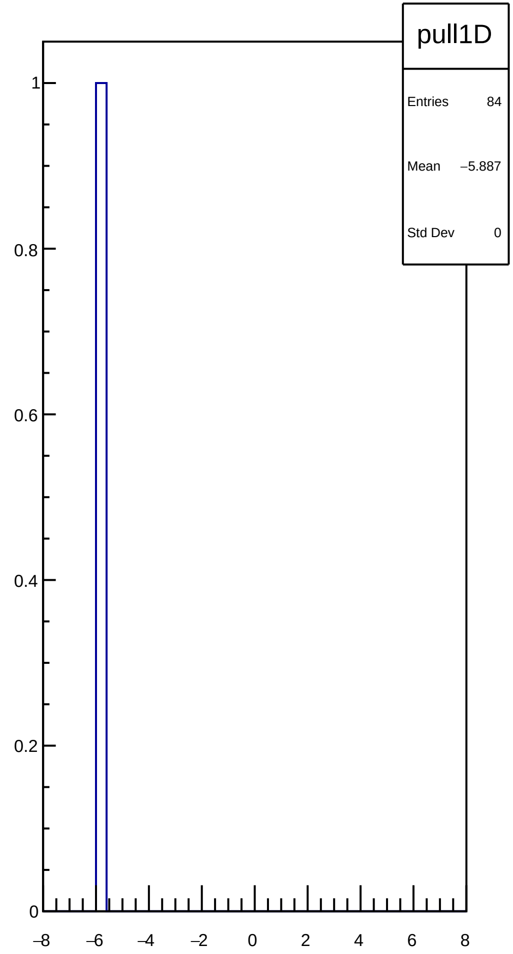

yield_bcm_an_ds3_mean vs run
χ2 / ndf 1.453e+06 / 83
p0 148.7 ± 0.0005606
pull
Entries 84
Mean 6069
Std Dev 6033

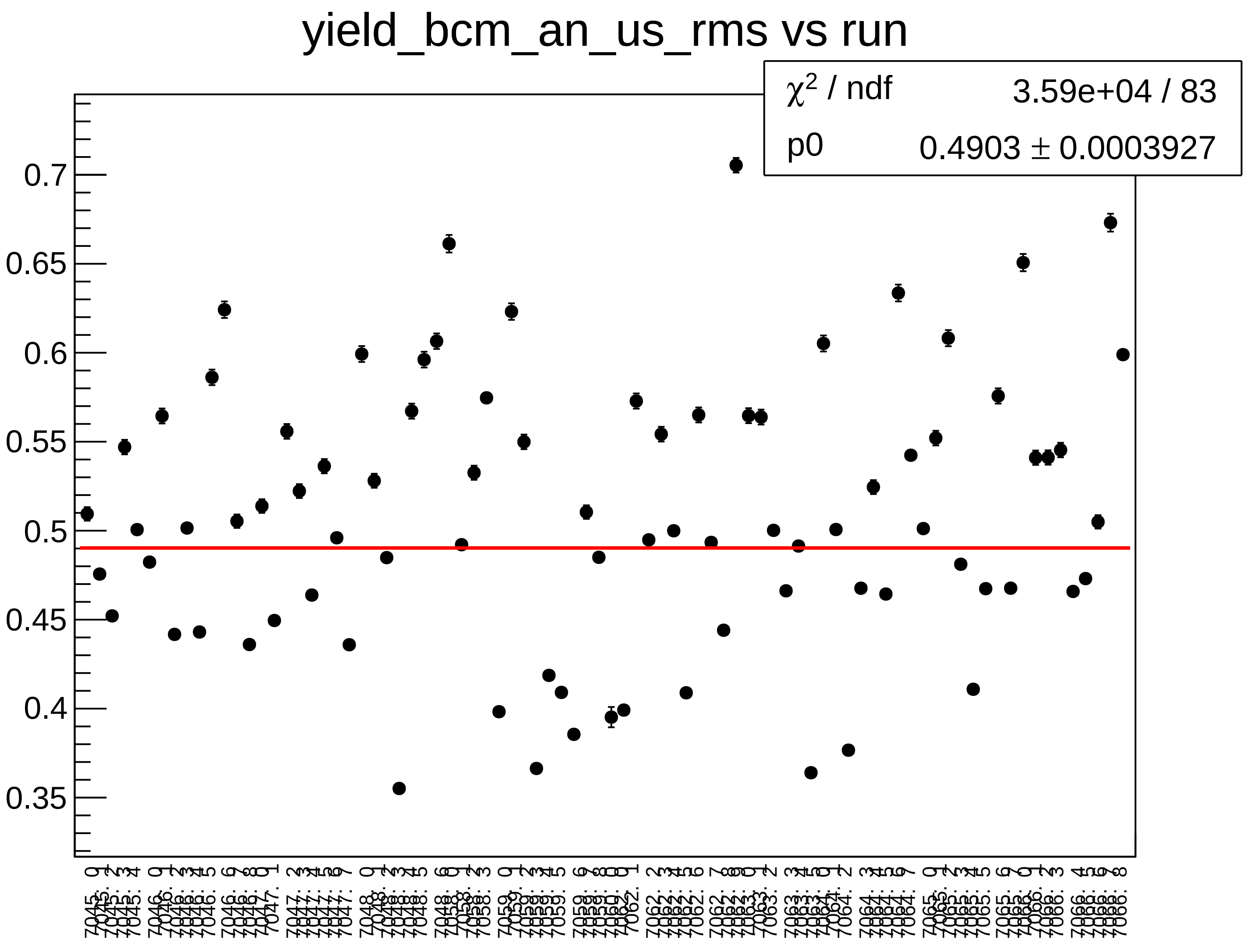

pull1D
Entries 84
Mean −2.743
Std Dev 0



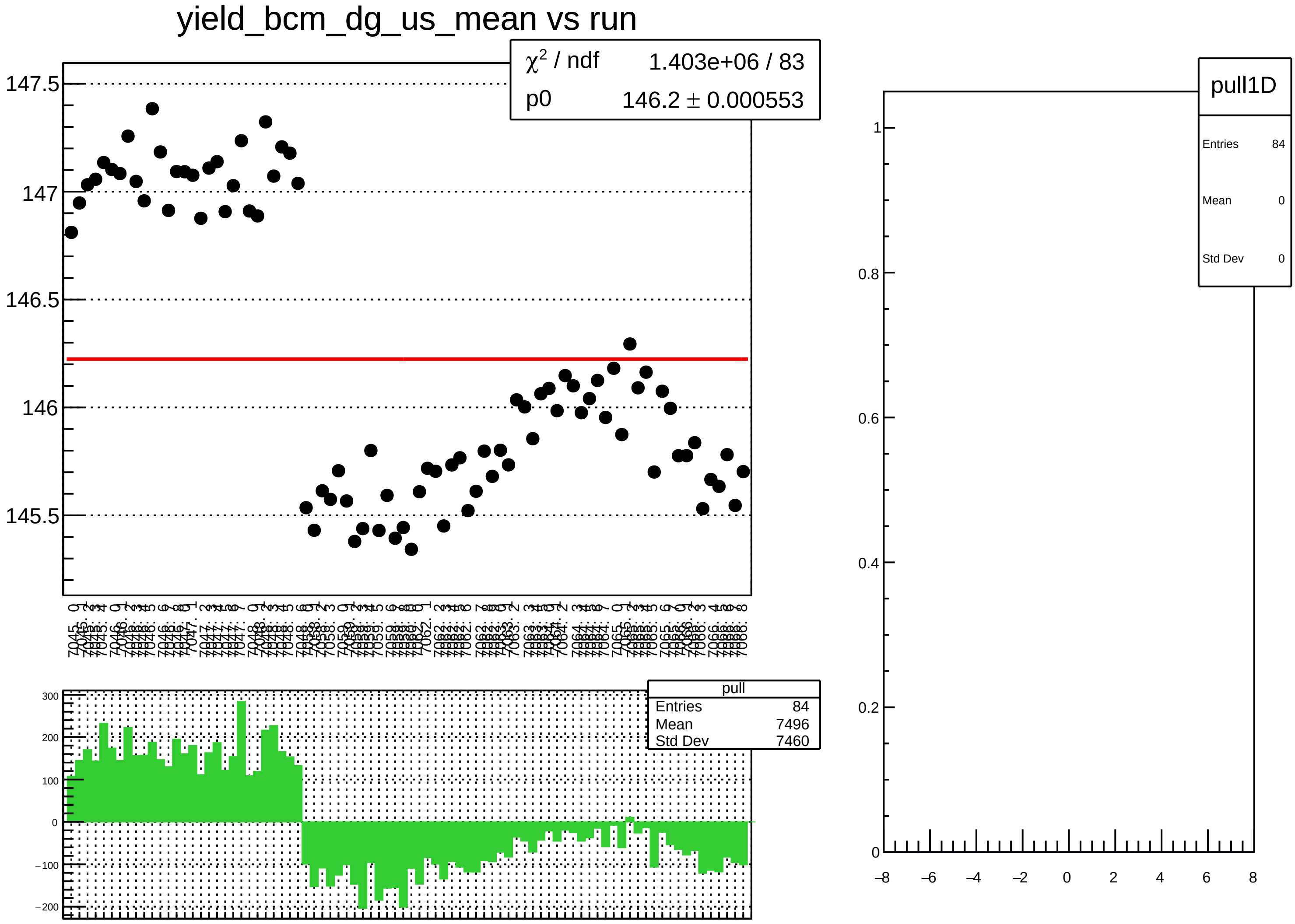
yield_bcm_an_ds3_rms vs run
χ2 / ndf 3.577e+04 / 83
p0 0.4949 ± 0.0003964
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35


yield_bcm_an_us_mean vs run
$\chi^2$ / ndf 1.574e+06 / 83
p0 147.8 ± 0.0005554
149
148.5
148
147.5
147
pull
Entries 84
Mean 1.072e+04
Std Dev 1.068e+04
300
200
100
0
−100
−200

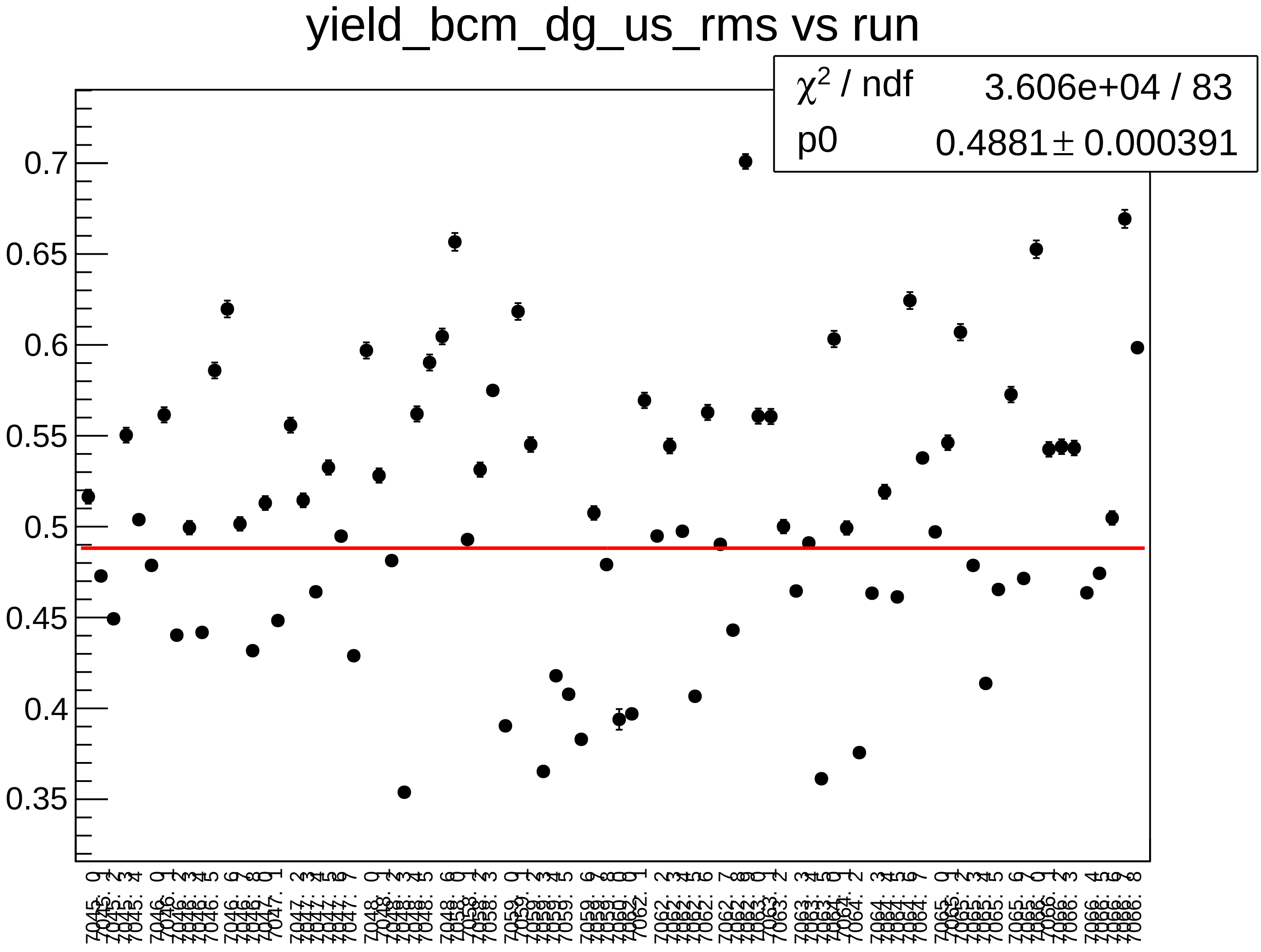

pull1D
Entries 84
Mean −5.887
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



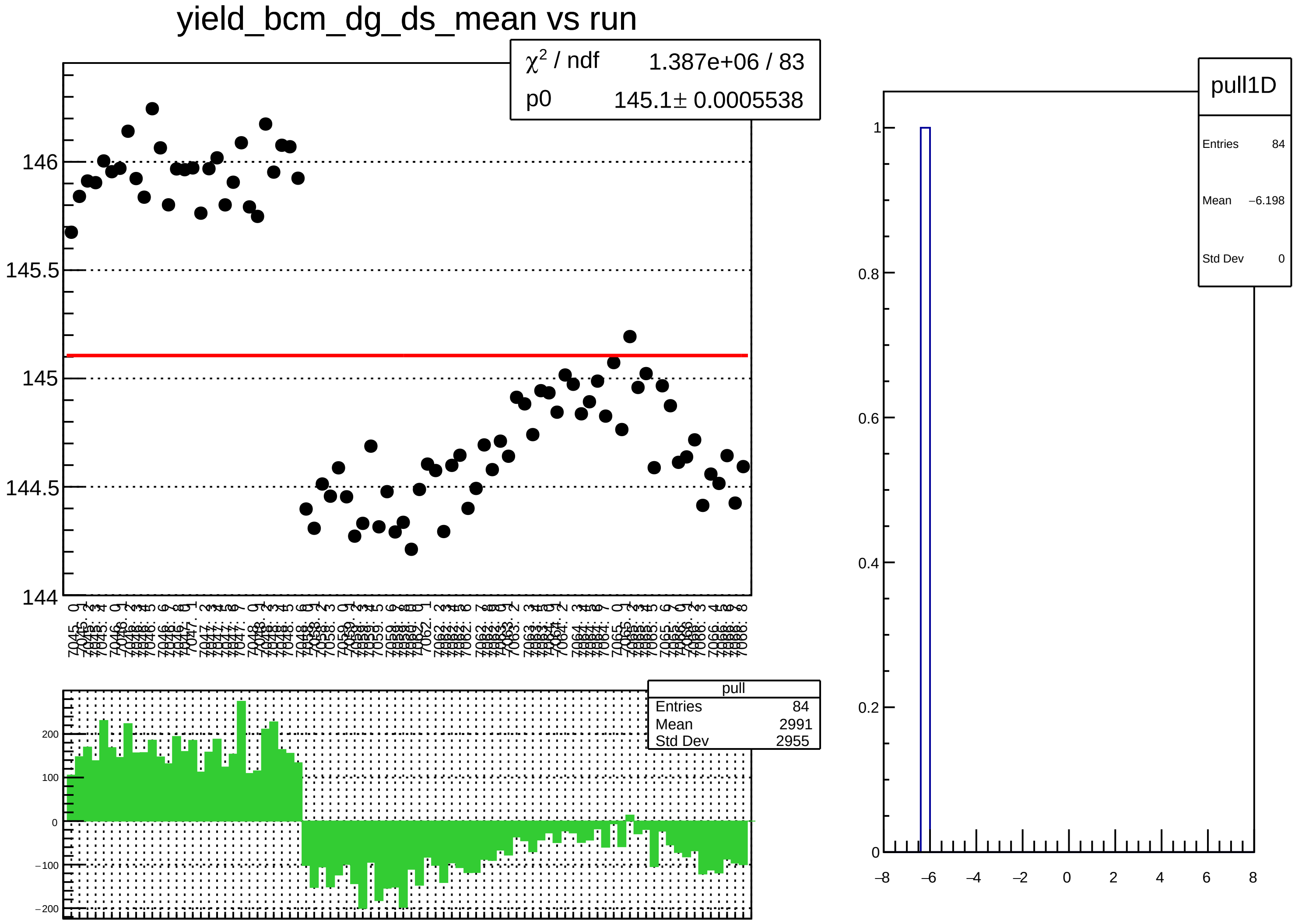
yield_bcm_an_us_rms vs run
$\chi^2$ / ndf 3.59e+04 / 83
p0 0.4903 ± 0.0003927
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

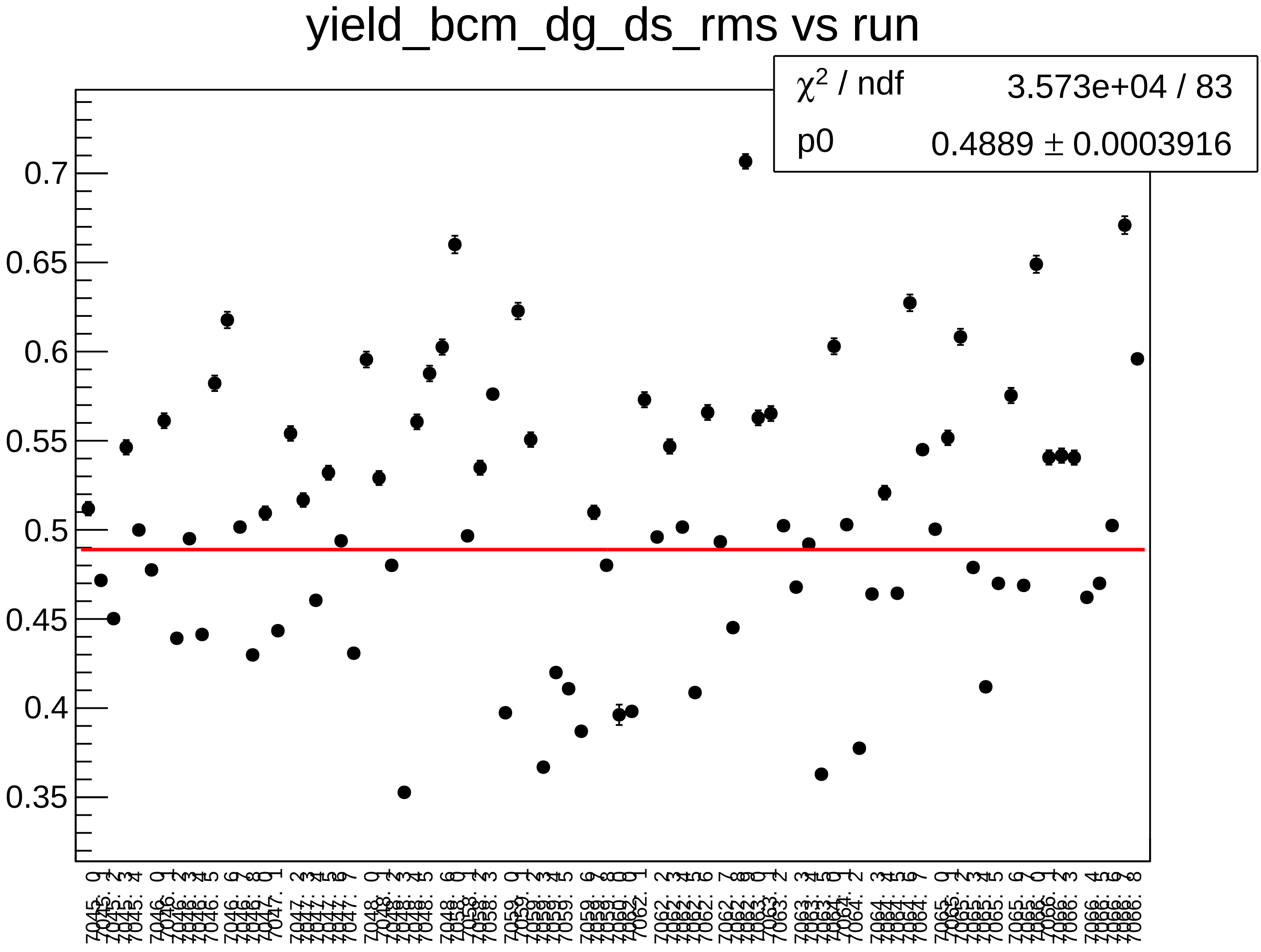


yield_bcm_dg_us_mean vs run
$\chi^2$ / ndf 1.403e+06 / 83
p0 146.2 ± 0.000553
147.5
147
146.5
146
145.5
pull
Entries 84
Mean 7496
Std Dev 7460
300
200
100
0
−100
−200
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

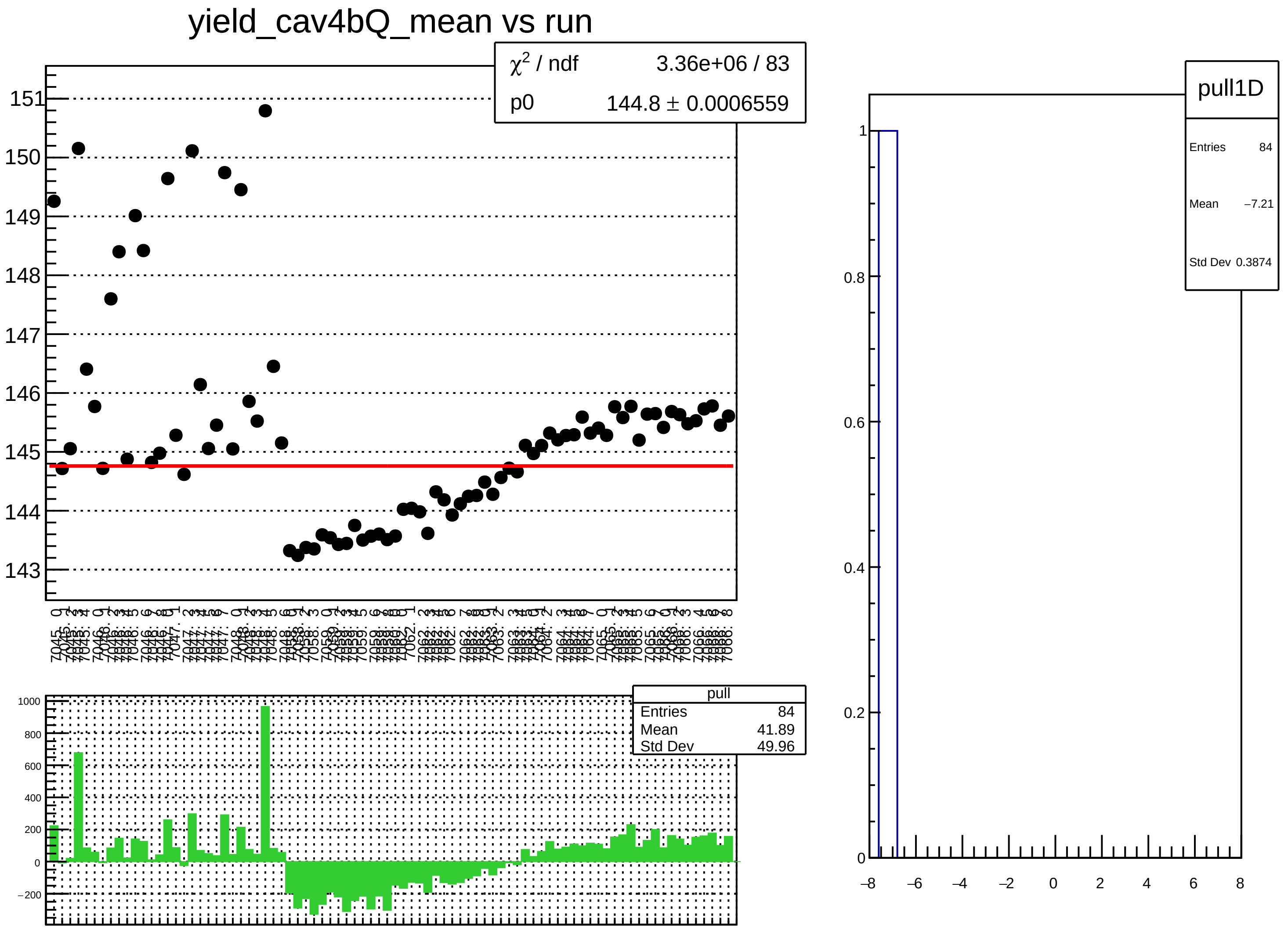


yield_bcm_dg_us_rms vs run
$\chi^2$ / ndf 3.606e+04 / 83
p0 0.4881 ± 0.000391
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

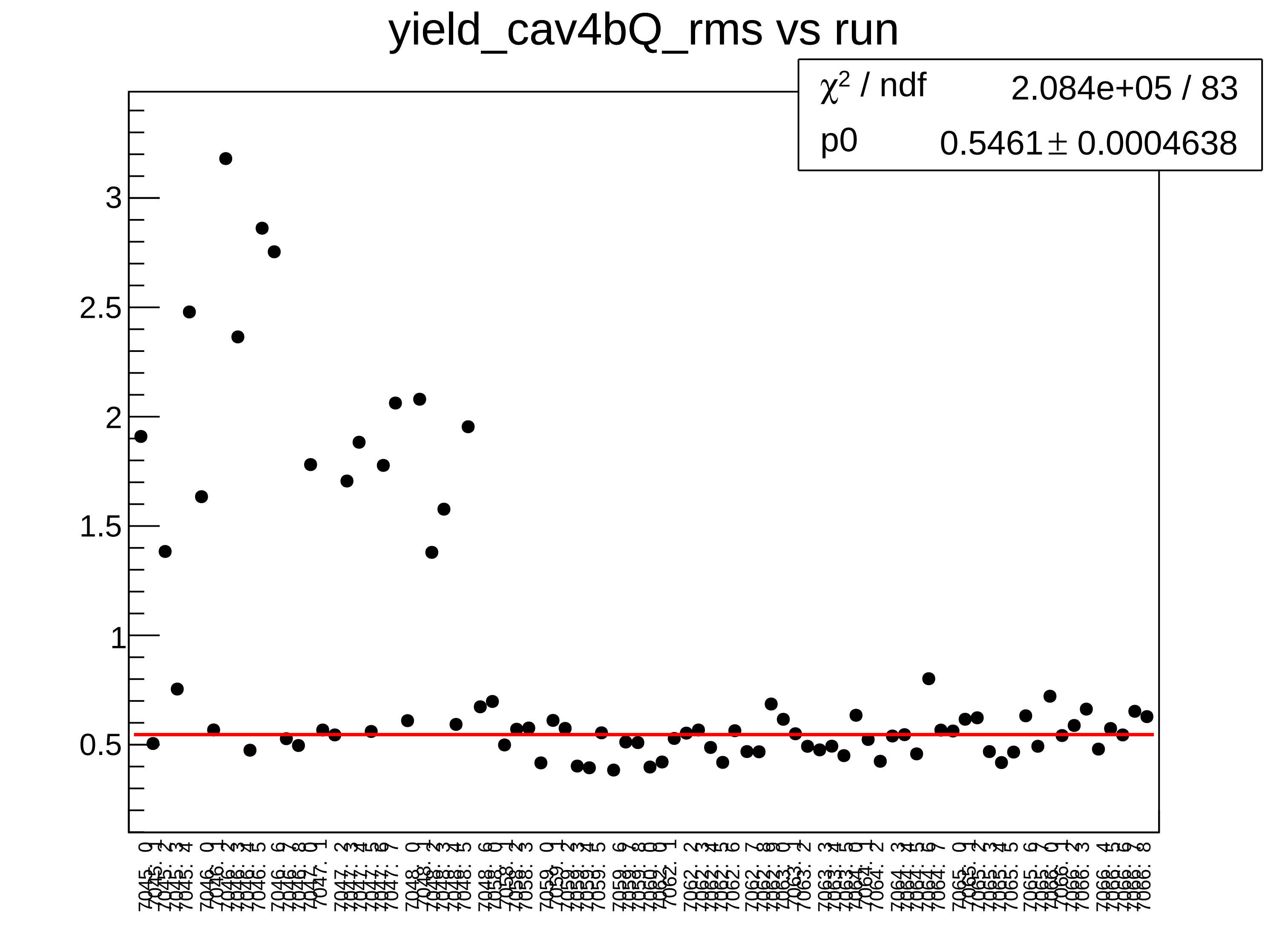

yield_bcm_dg_ds_mean vs run
$\chi^2$ / ndf 1.387e+06 / 83
p0 145.1± 0.0005538
pull
Entries 84
Mean 2991
Std Dev 2955
pull1D
Entries 84
Mean −6.198
Std Dev 0



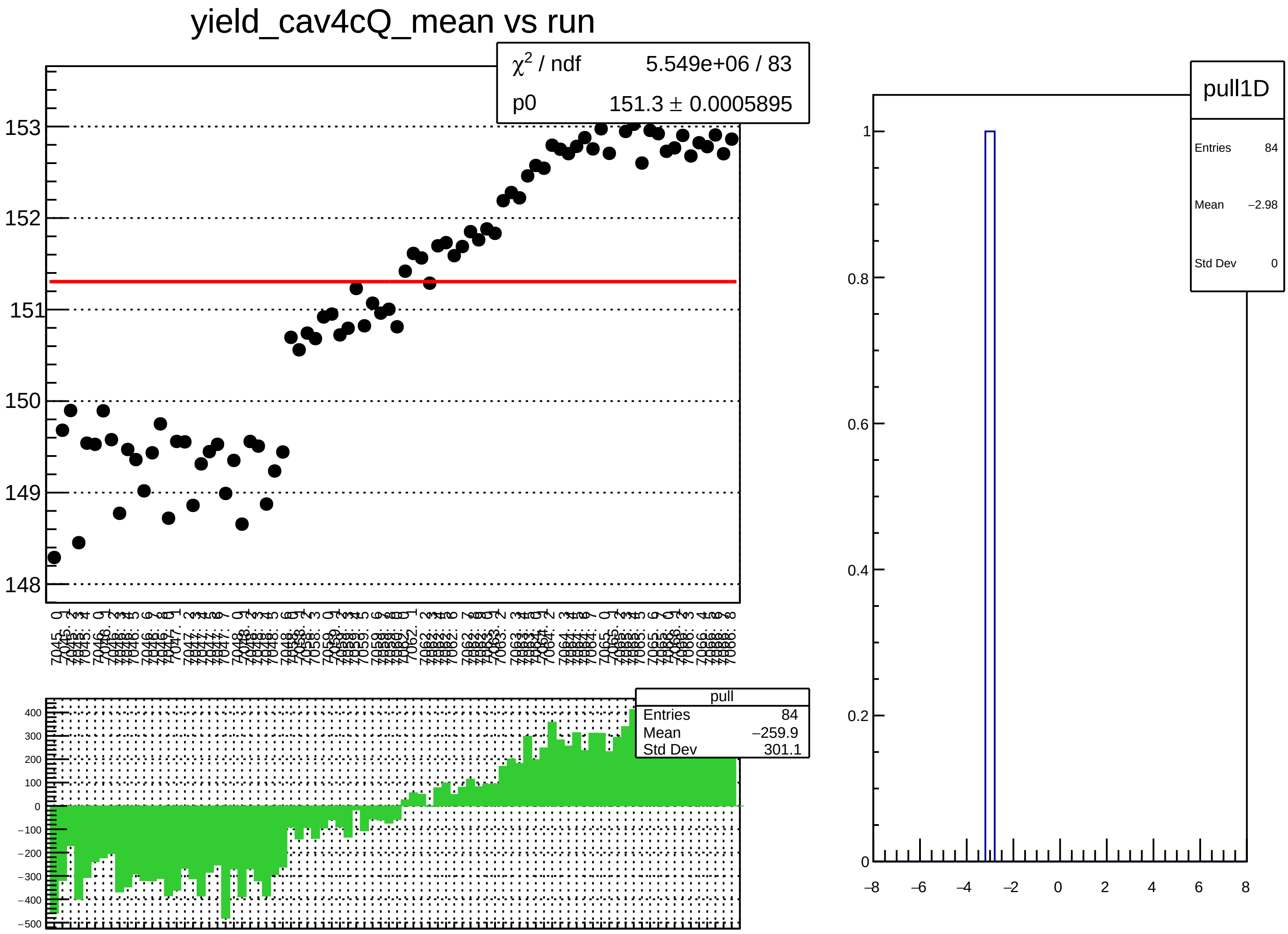
yield_bcm_dg_ds_rms vs run
$\chi^2$ / ndf 3.573e+04 / 83
p0 0.4889 ± 0.0003916
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35



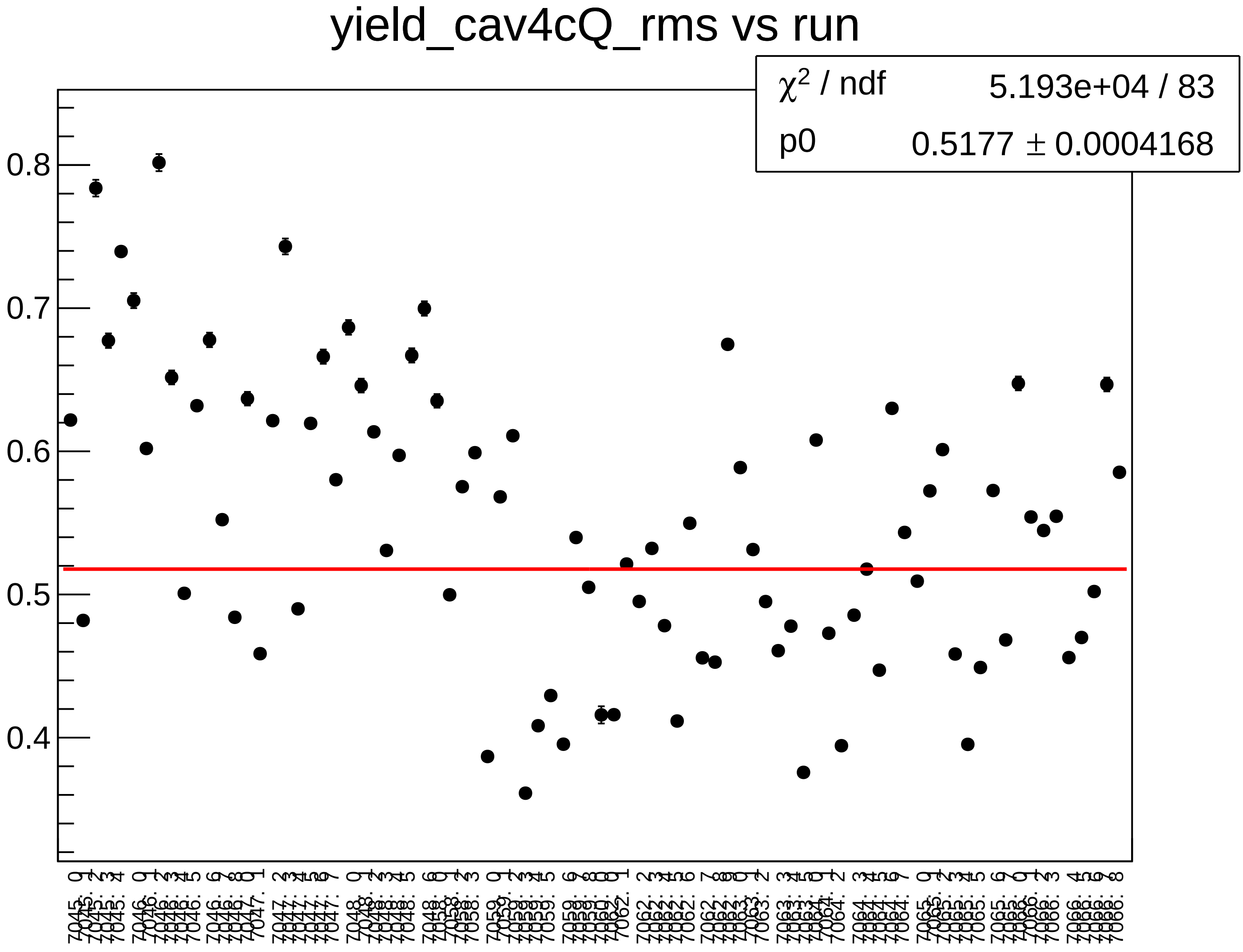
yield_cav4bQ_mean vs run
$\chi^2$ / ndf 3.36e+06 / 83
p0 144.8 ± 0.0006559
pull
Entries 84
Mean 41.89
Std Dev 49.96
pull1D
Entries 84
Mean −7.21
Std Dev 0.3874



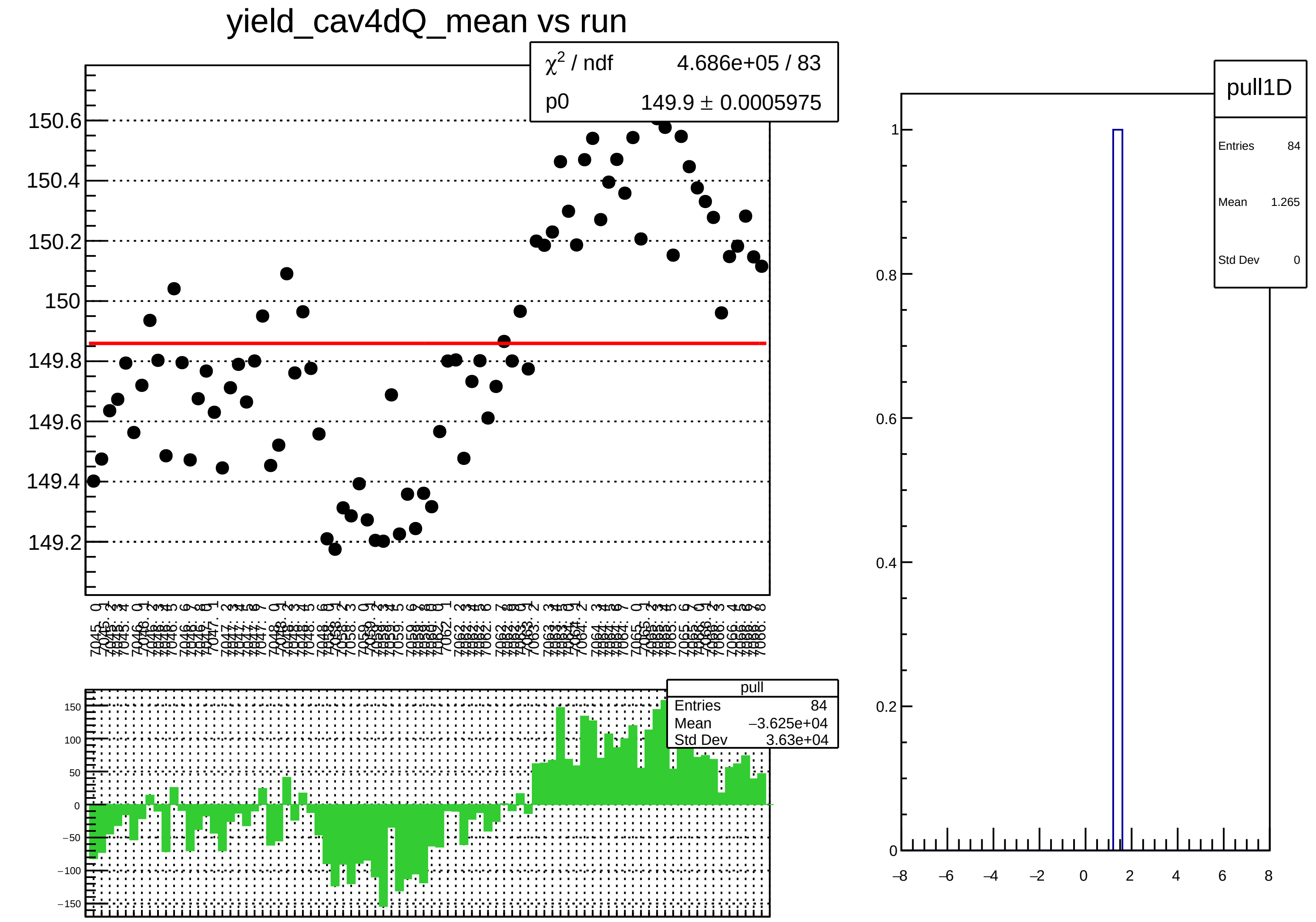
yield_cav4bQ_rms vs run
$\chi^2$ / ndf 2.084e+05 / 83
p0 0.5461 ± 0.0004638
3
2.5
2
1.5
1
0.5

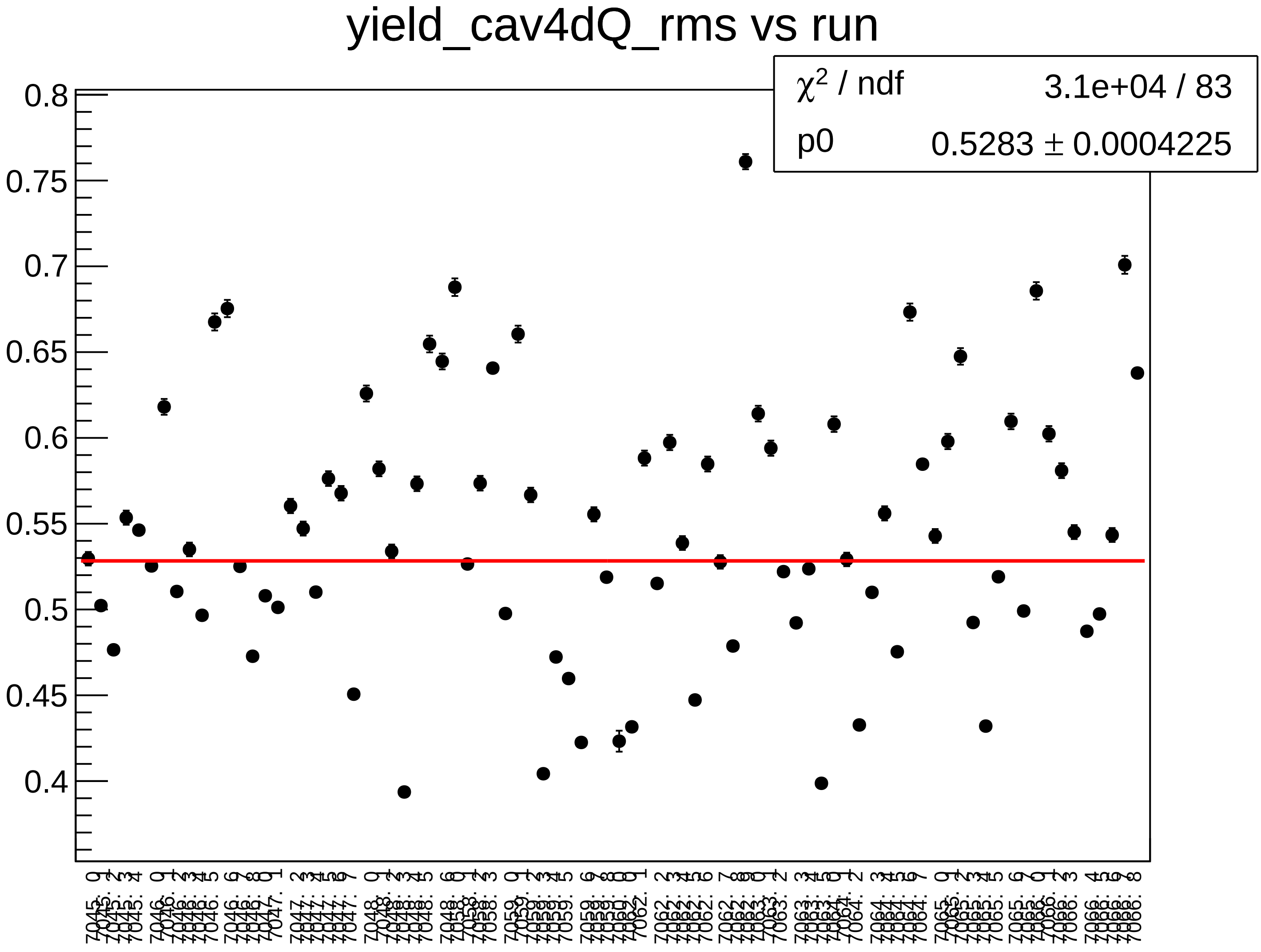


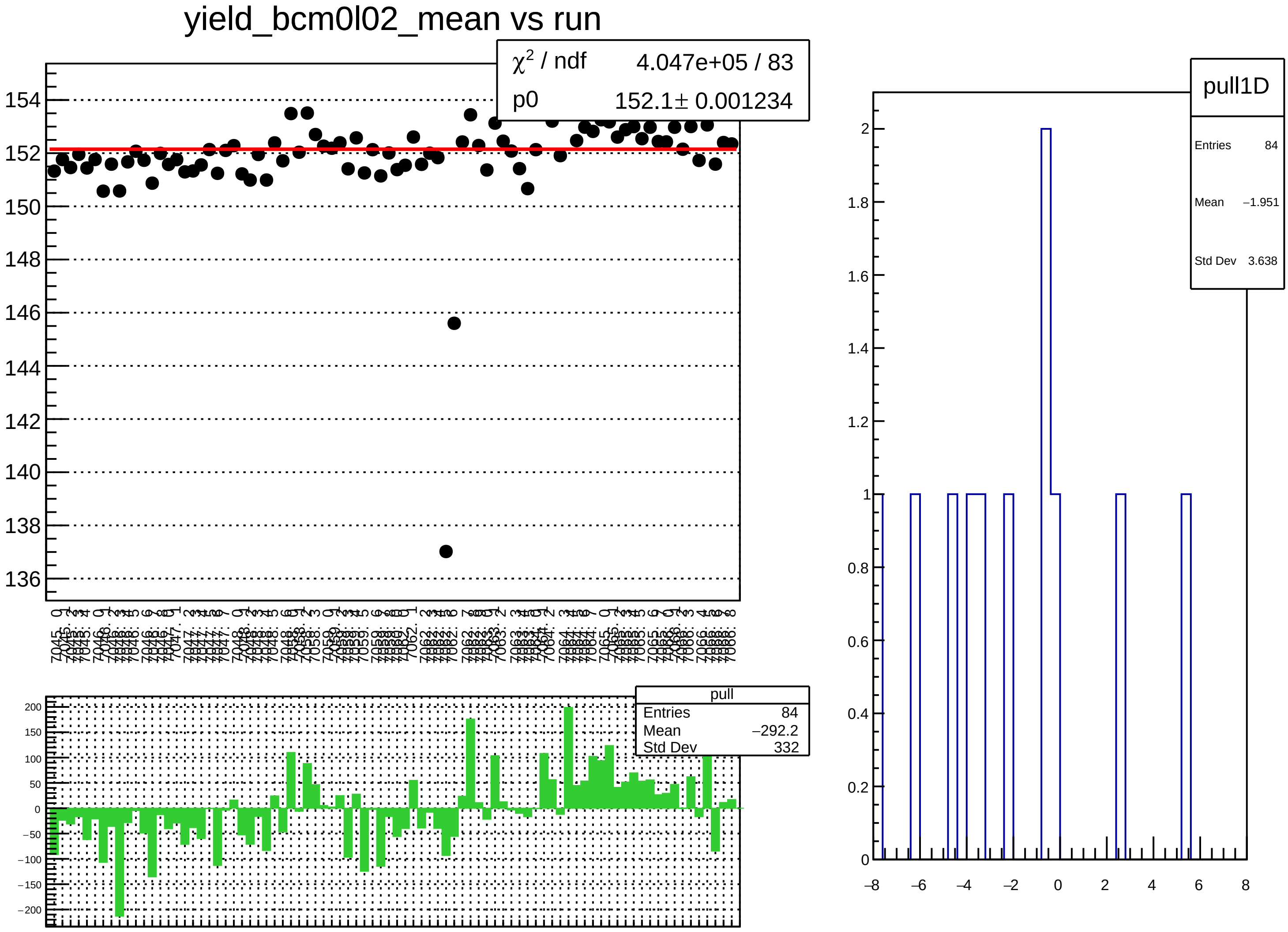
yield_cav4cQ_mean vs run
χ2 / ndf 5.549e+06 / 83
p0 151.3 ± 0.0005895
153
152
151
150
149
148
pull
Entries 84
Mean −259.9
Std Dev 301.1
400
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 84
Mean −2.98
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



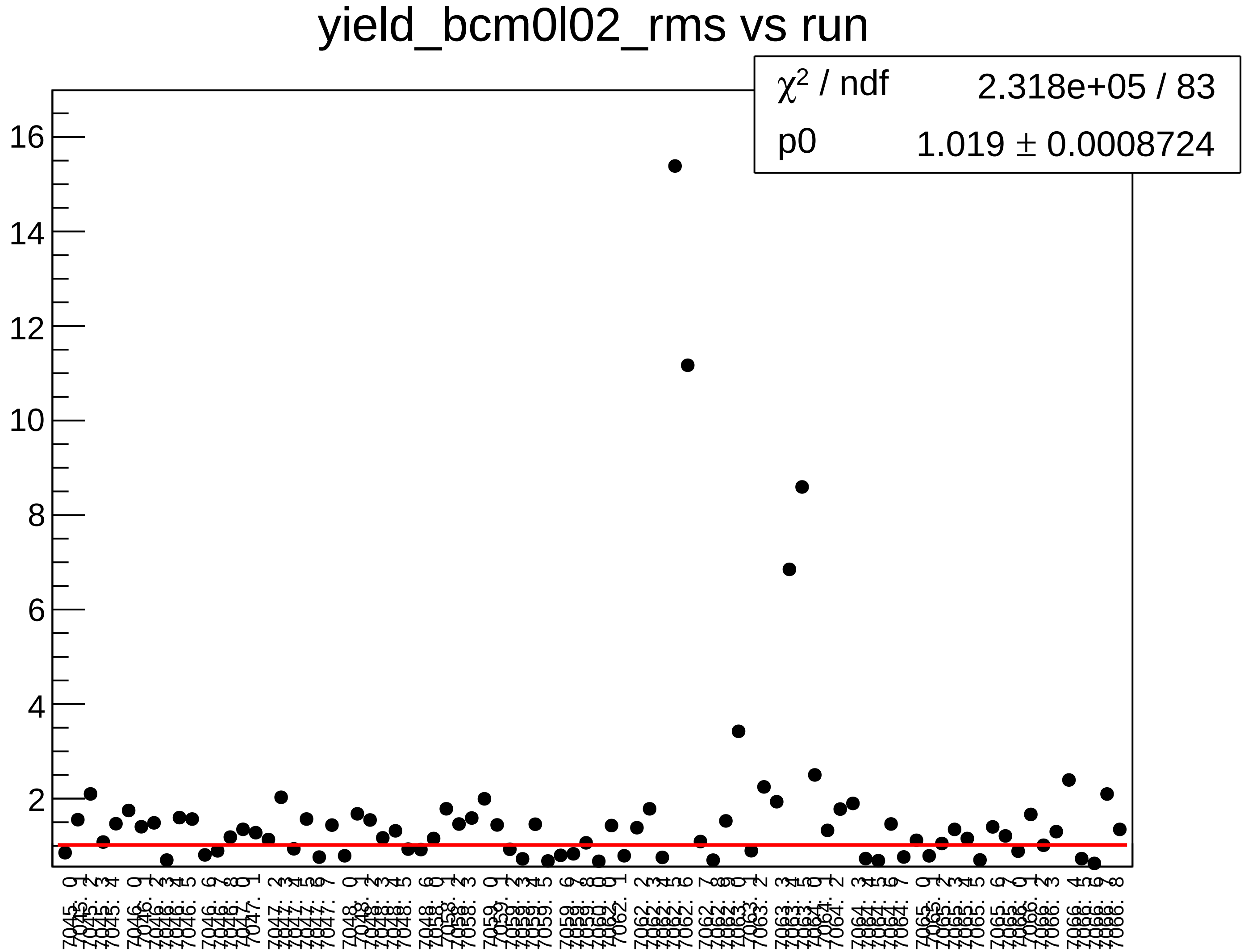
yield_cav4cQ_rms vs run
$\chi^2$ / ndf 5.193e+04 / 83
p0 0.5177 ± 0.0004168
0.8
0.7
0.6
0.5
0.4


yield_cav4dQ_mean vs run
$\chi^2$ / ndf 4.686e+05 / 83
p0 149.9 ± 0.0005975
150.6
150.4
150.2
150
149.8
149.6
149.4
149.2
pull
Entries 84
Mean −3.625e+04
Std Dev 3.63e+04
150
100
50
0
−50
−100
−150
pull1D
Entries 84
Mean 1.265
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

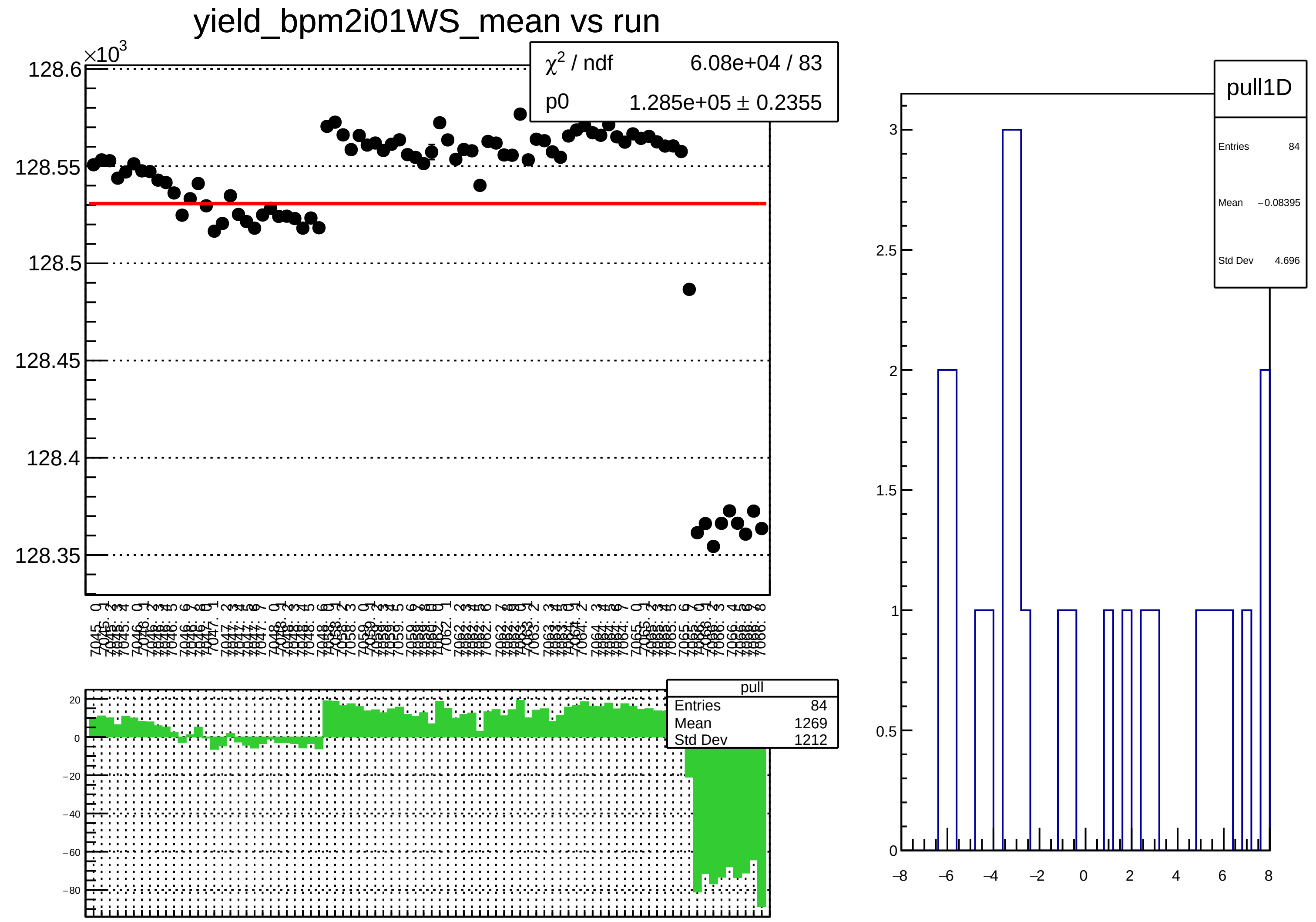

yield_cav4dQ_rms vs run
$\chi^2$ / ndf 3.1e+04 / 83
p0 0.5283 ± 0.0004225
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4



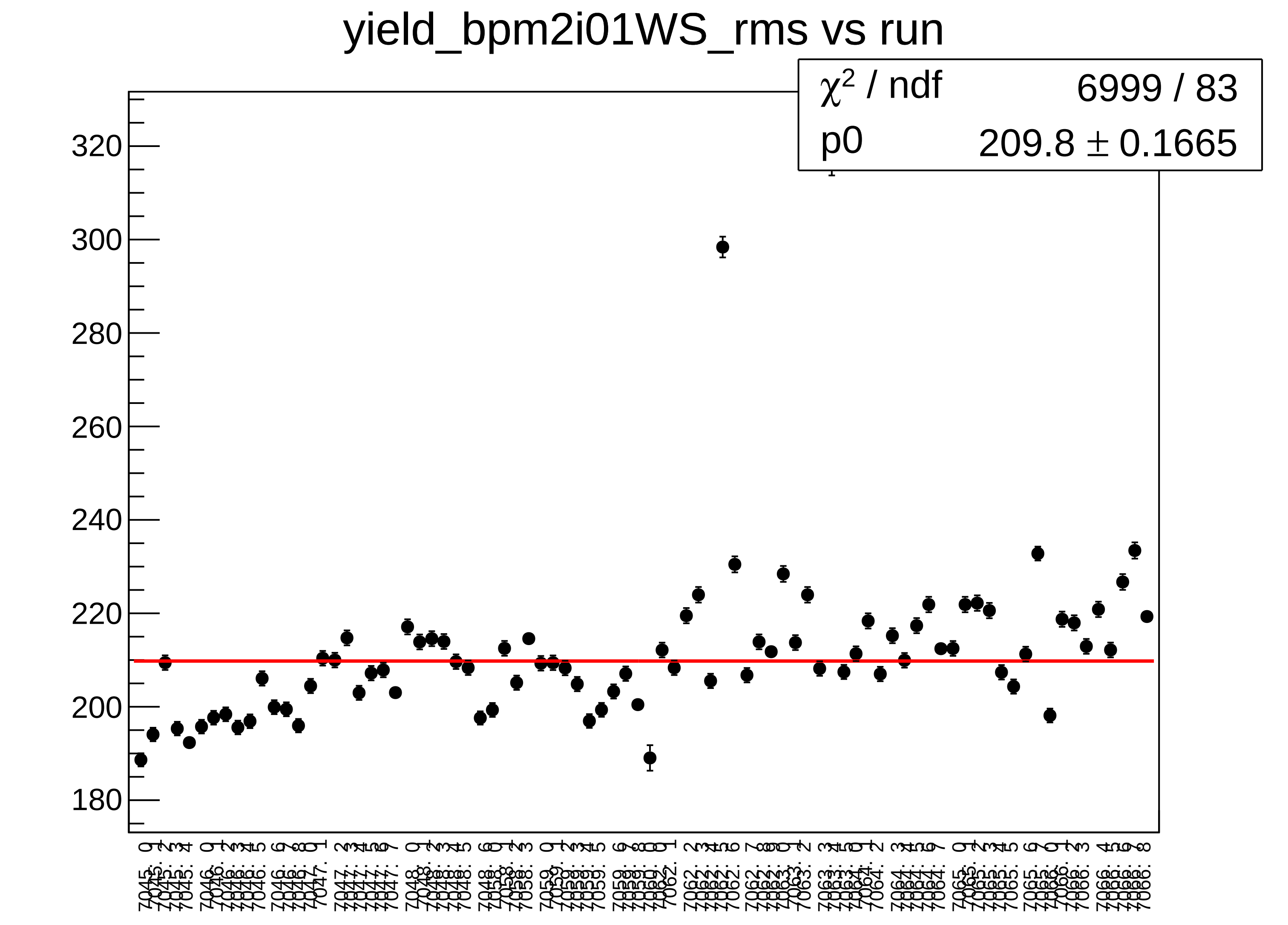
yield_bcm0l02_mean vs run
$\chi^2$ / ndf 4.047e+05 / 83
p0 152.1± 0.001234
pull
Entries 84
Mean −292.2
Std Dev 332
pull1D
Entries 84
Mean −1.951
Std Dev 3.638



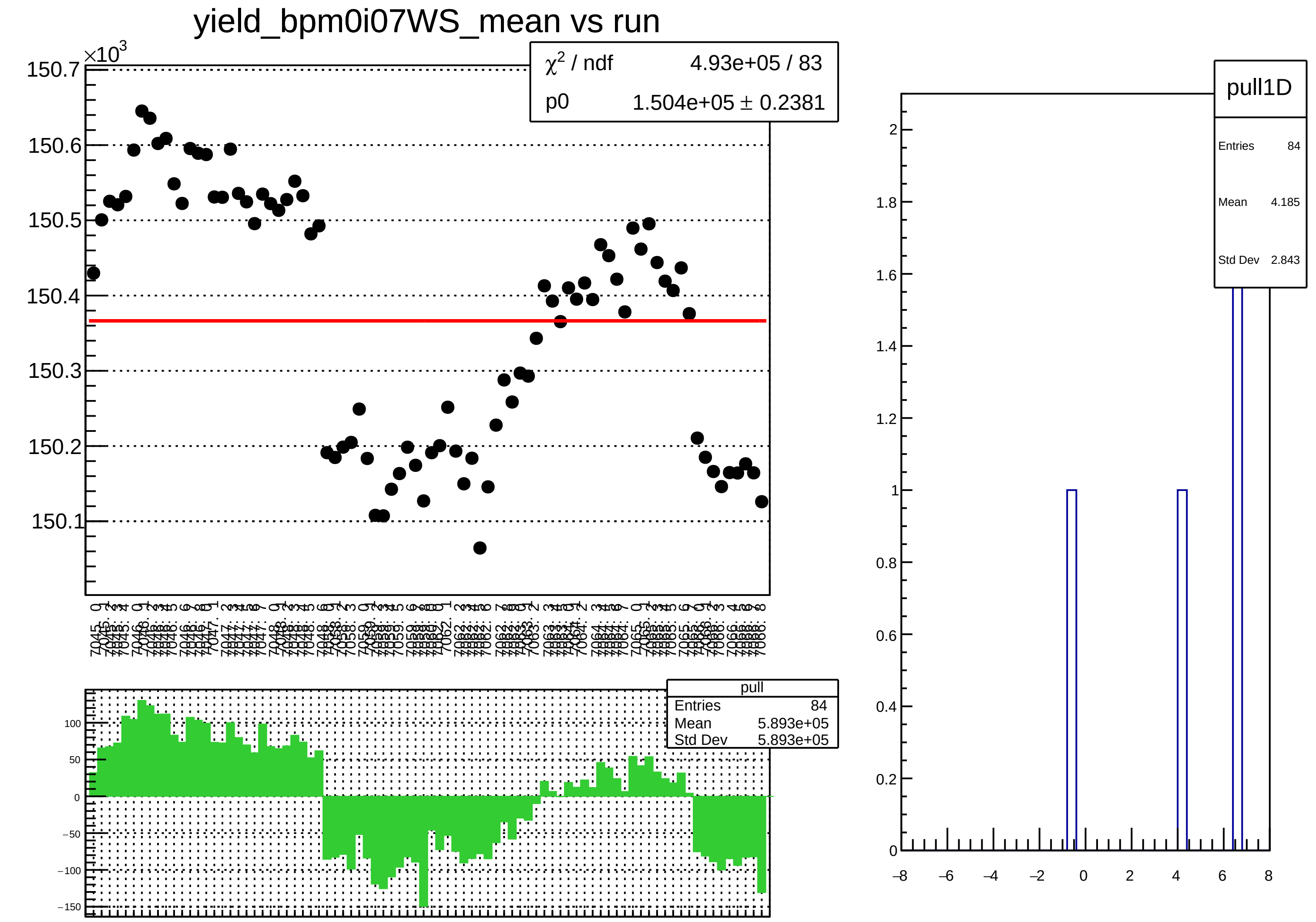
yield_bcm0l02_rms vs run
χ2 / ndf 2.318e+05 / 83
p0 1.019 ± 0.0008724
16
14
12
10
8
6
4
2

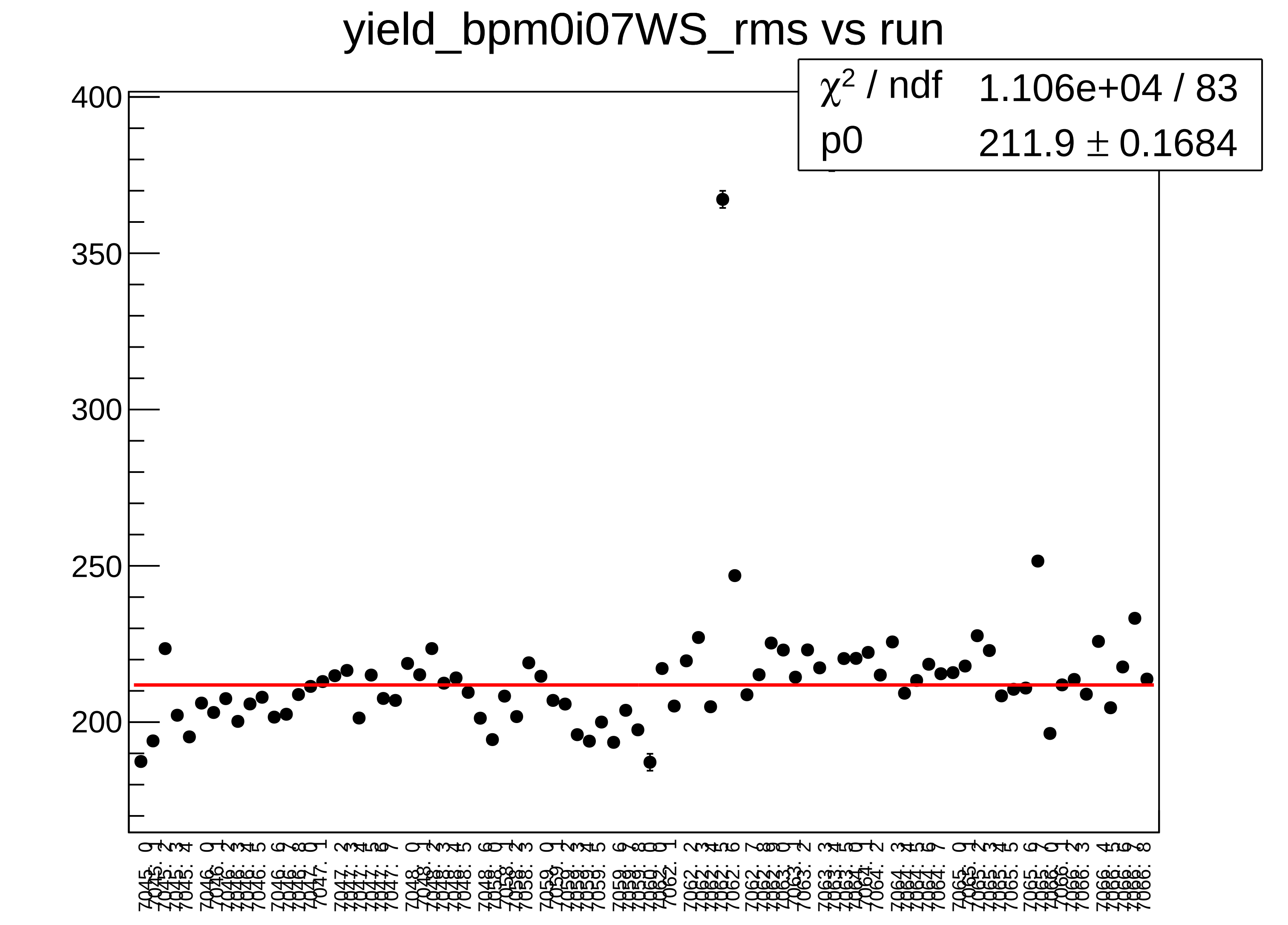


yield_bpm2i01WS_mean vs run
χ2 / ndf 6.08e+04 / 83
p0 1.285e+05 ± 0.2355
pull
Entries 84
Mean 1269
Std Dev 1212
pull1D
Entries 84
Mean −0.08395
Std Dev 4.696

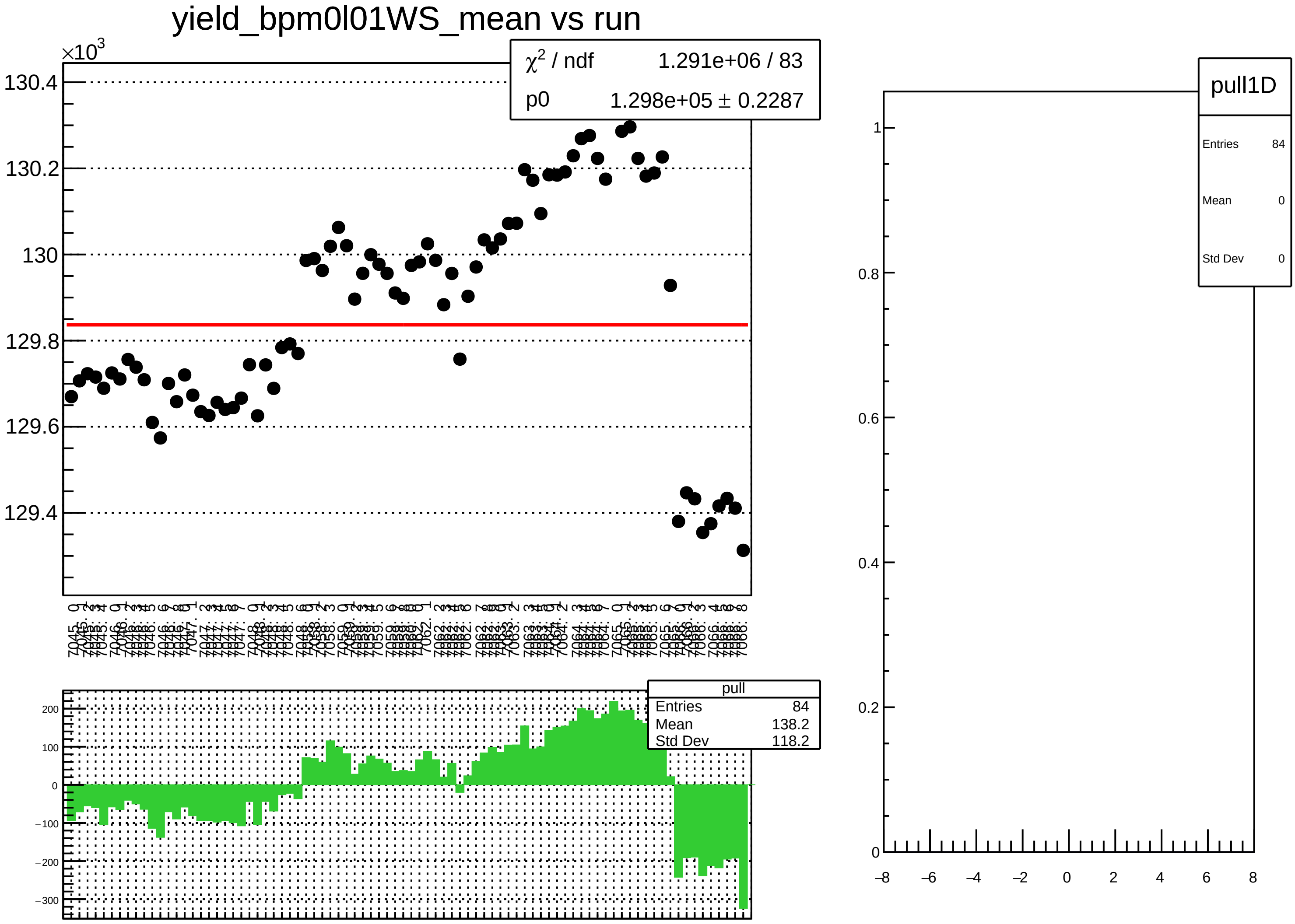


yield_bpm2i01WS_rms vs run
$\chi^2$ / ndf 6999 / 83
p0 209.8 ± 0.1665
320
300
280
260
240
220
200
180

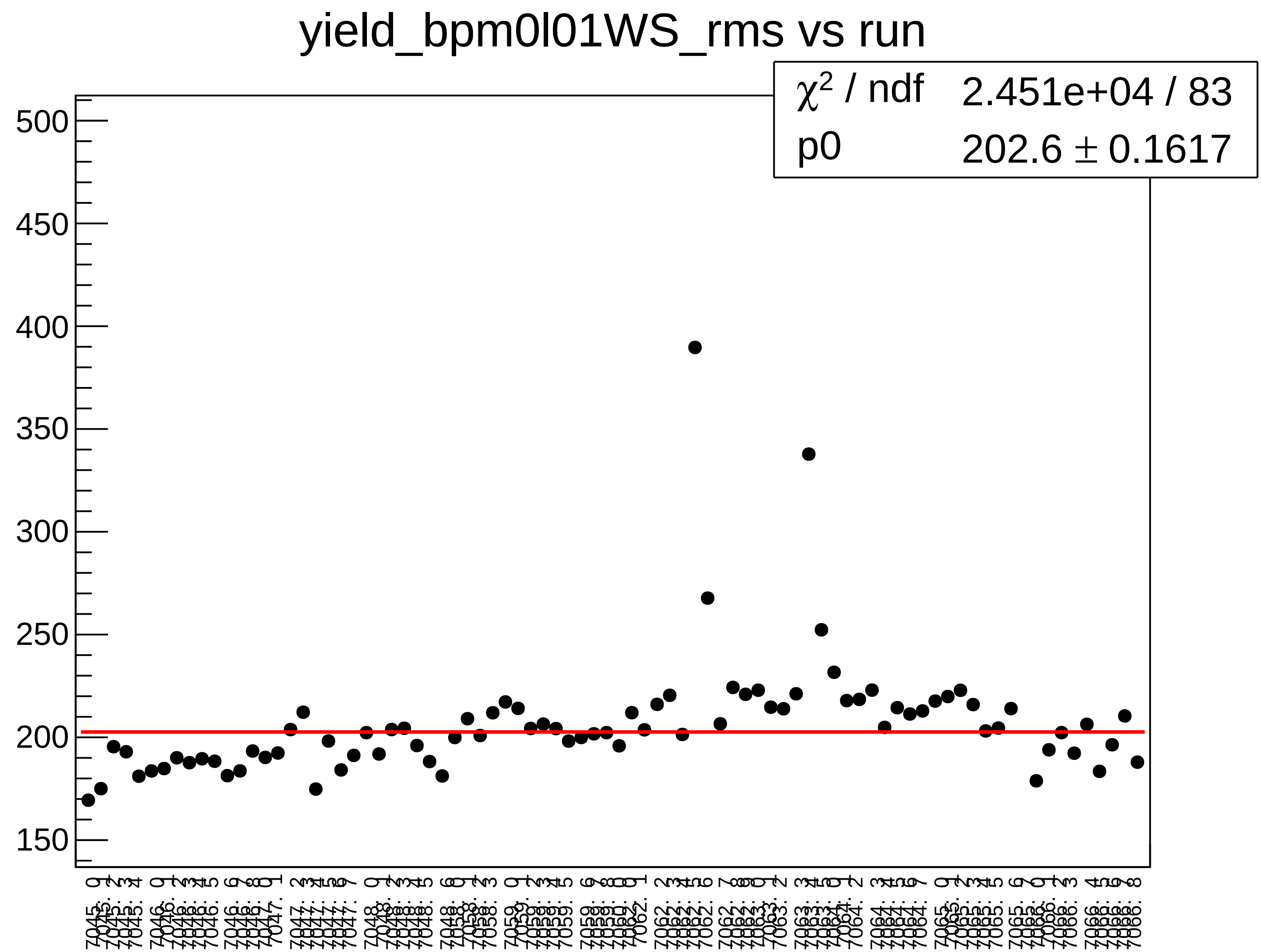

yield_bpm0i07WS_mean vs run
χ2 / ndf 4.93e+05 / 83
p0 1.504e+05 ± 0.2381
pull
Entries 84
Mean 5.893e+05
Std Dev 5.893e+05
pull1D
Entries 84
Mean 4.185
Std Dev 2.843

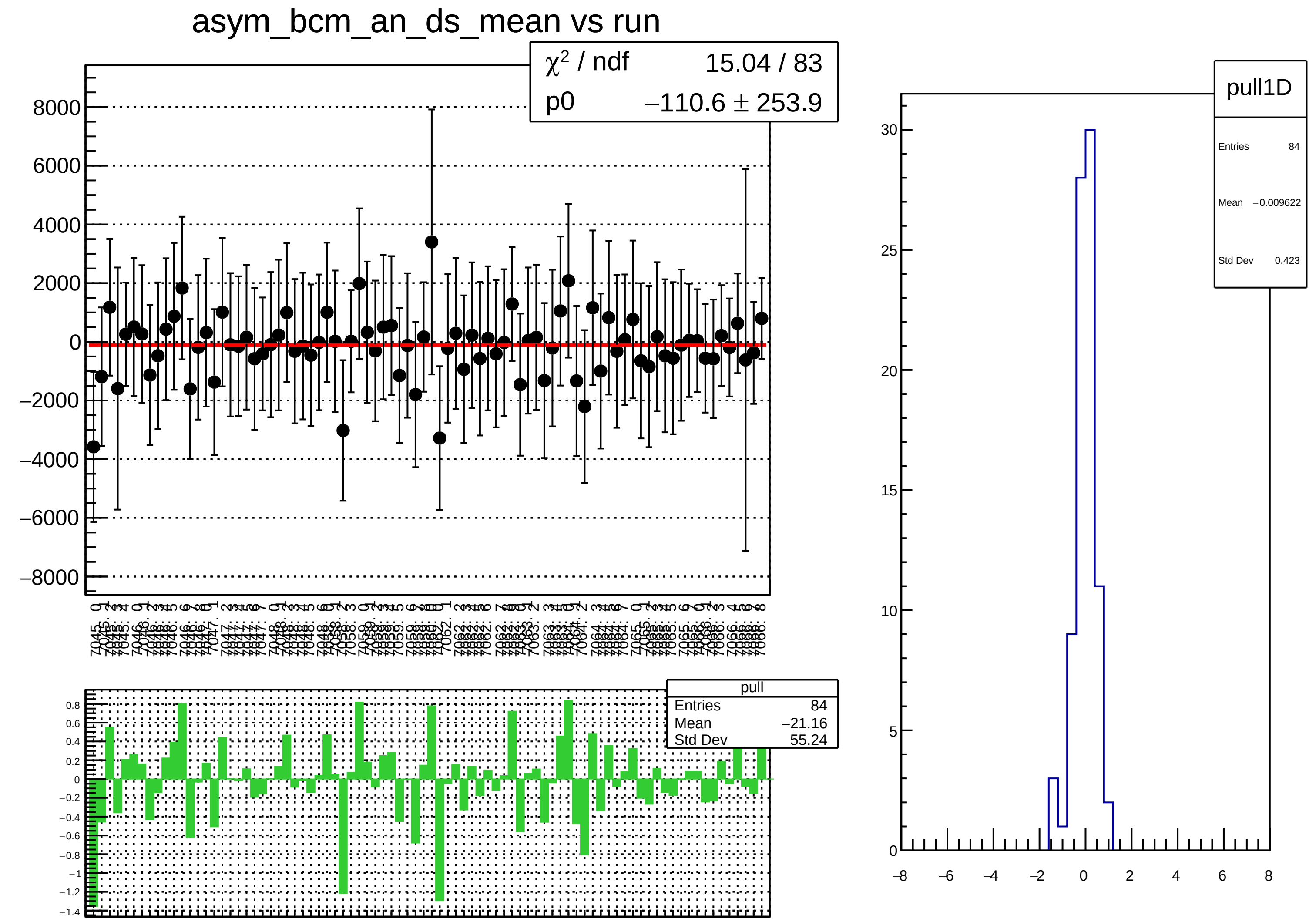


yield_bpm0i07WS_rms vs run
χ2 / ndf 1.106e+04 / 83
p0 211.9 ± 0.1684
400
350
300
250
200



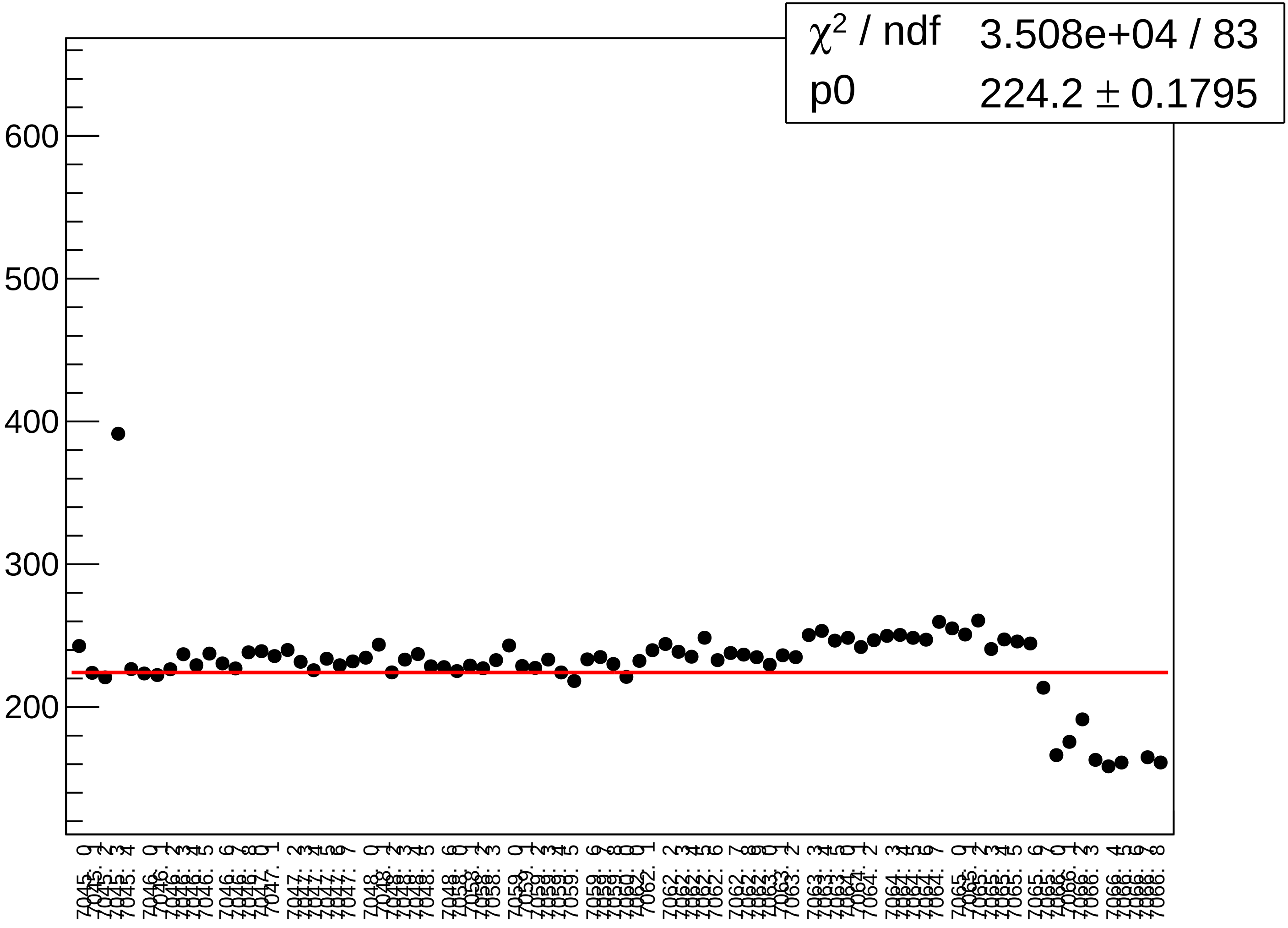
yield_bpm0l01WS_mean vs run
$\times10^3$
$\chi^2$ / ndf 1.291e+06 / 83
p0 1.298e+05 ± 0.2287
130.4
130.2
130
129.8
129.6
129.4
pull
Entries 84
Mean 138.2
Std Dev 118.2
200
100
0
−100
−200
−300
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

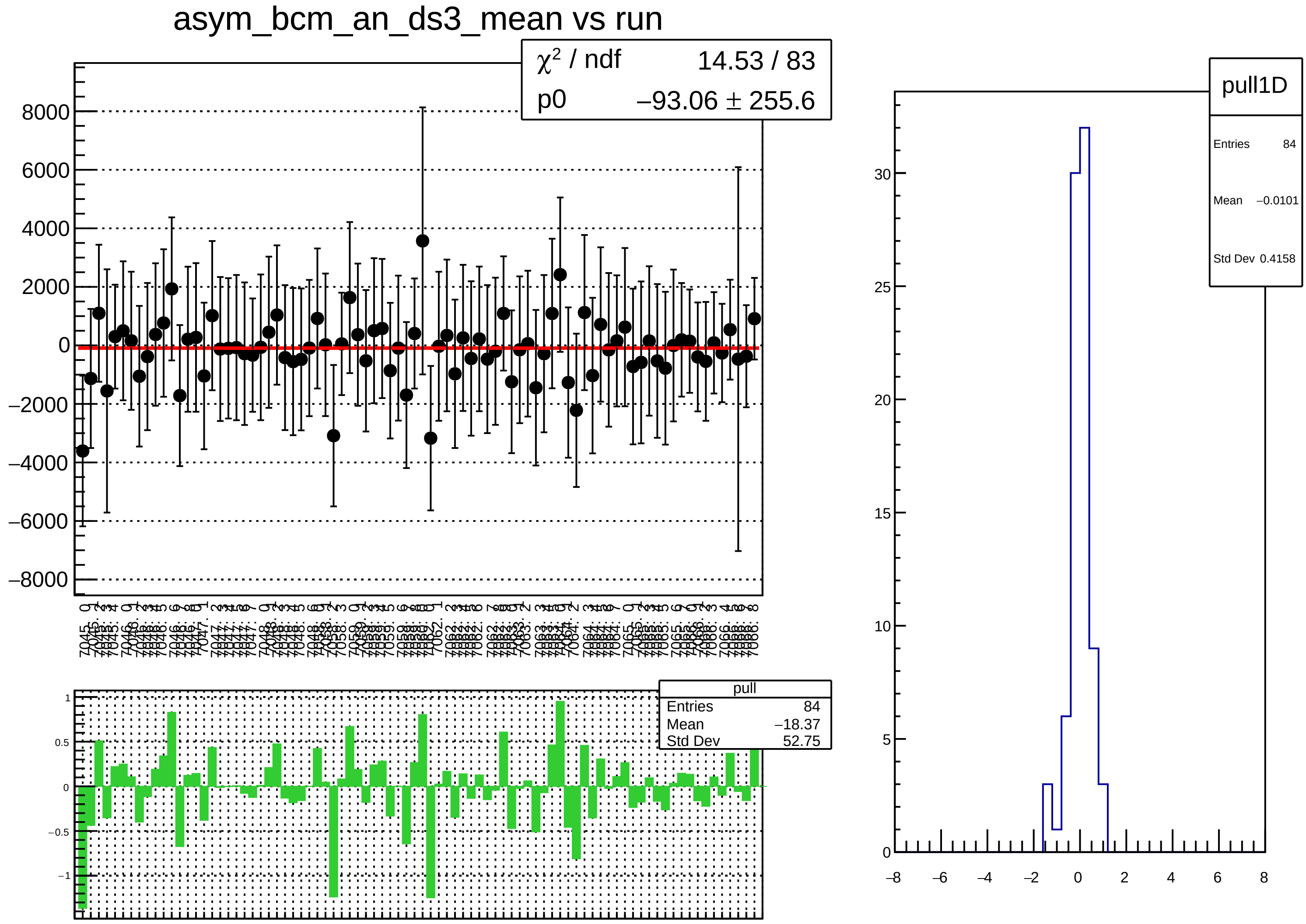

yield_bpm0l01WS_rms vs run
χ2 / ndf 2.451e+04 / 83
p0 202.6 ± 0.1617



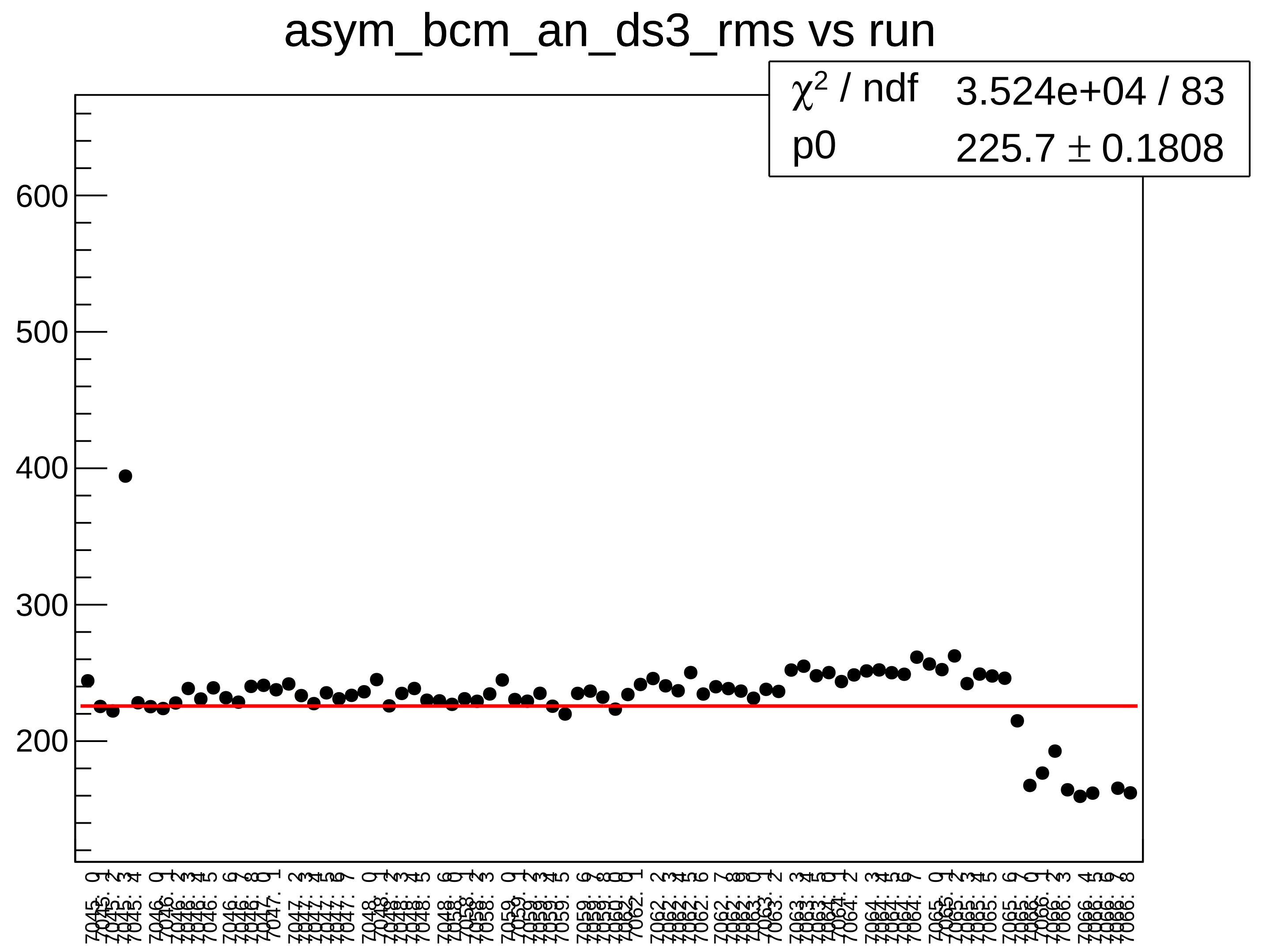
asym_bcm_an_ds_mean vs run
χ2 / ndf 15.04 / 83
p0 −110.6 ± 253.9
pull
Entries 84
Mean −21.16
Std Dev 55.24
pull1D
Entries 84
Mean −0.009622
Std Dev 0.423

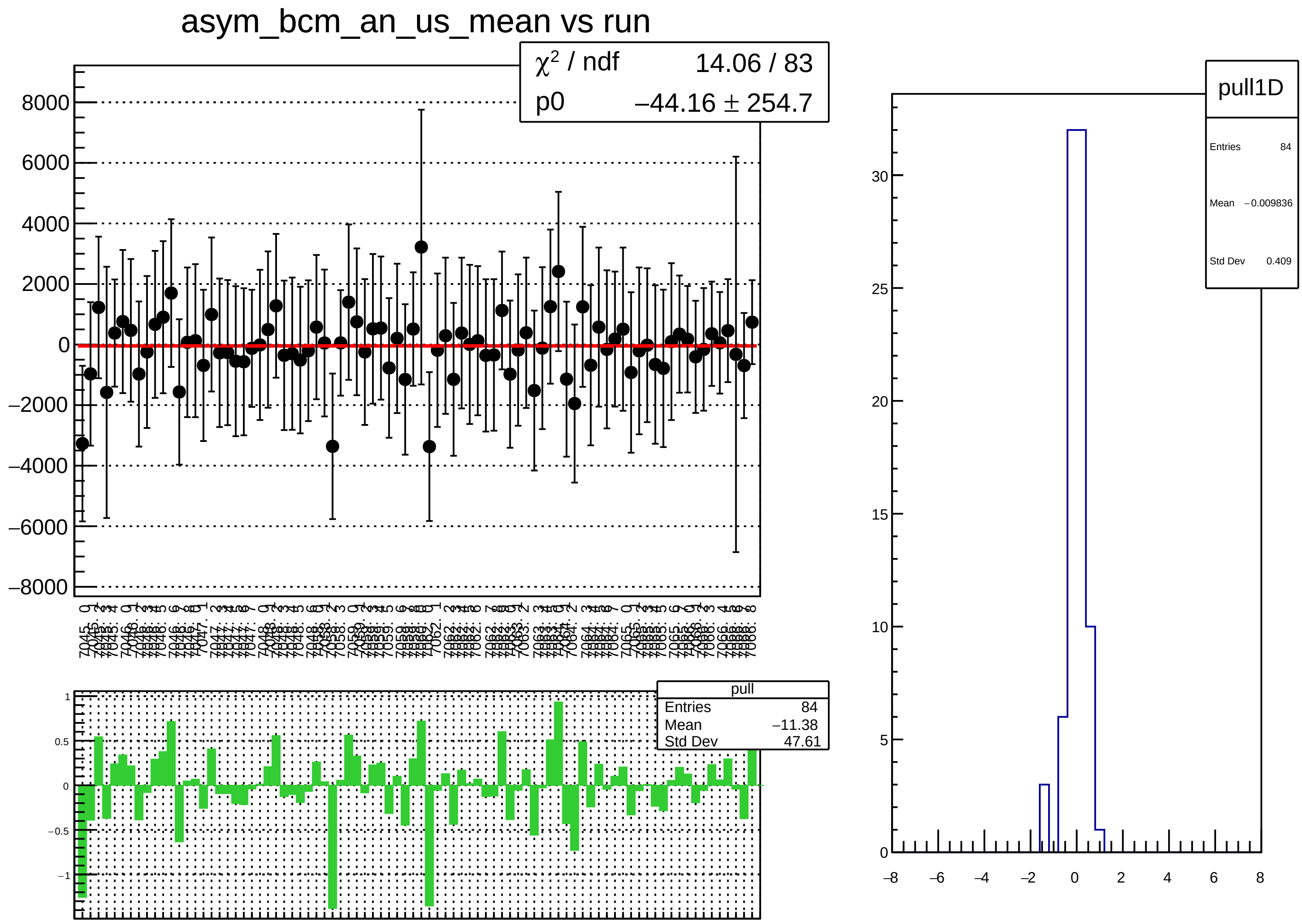
asym_bcm_an_ds_rms vs run



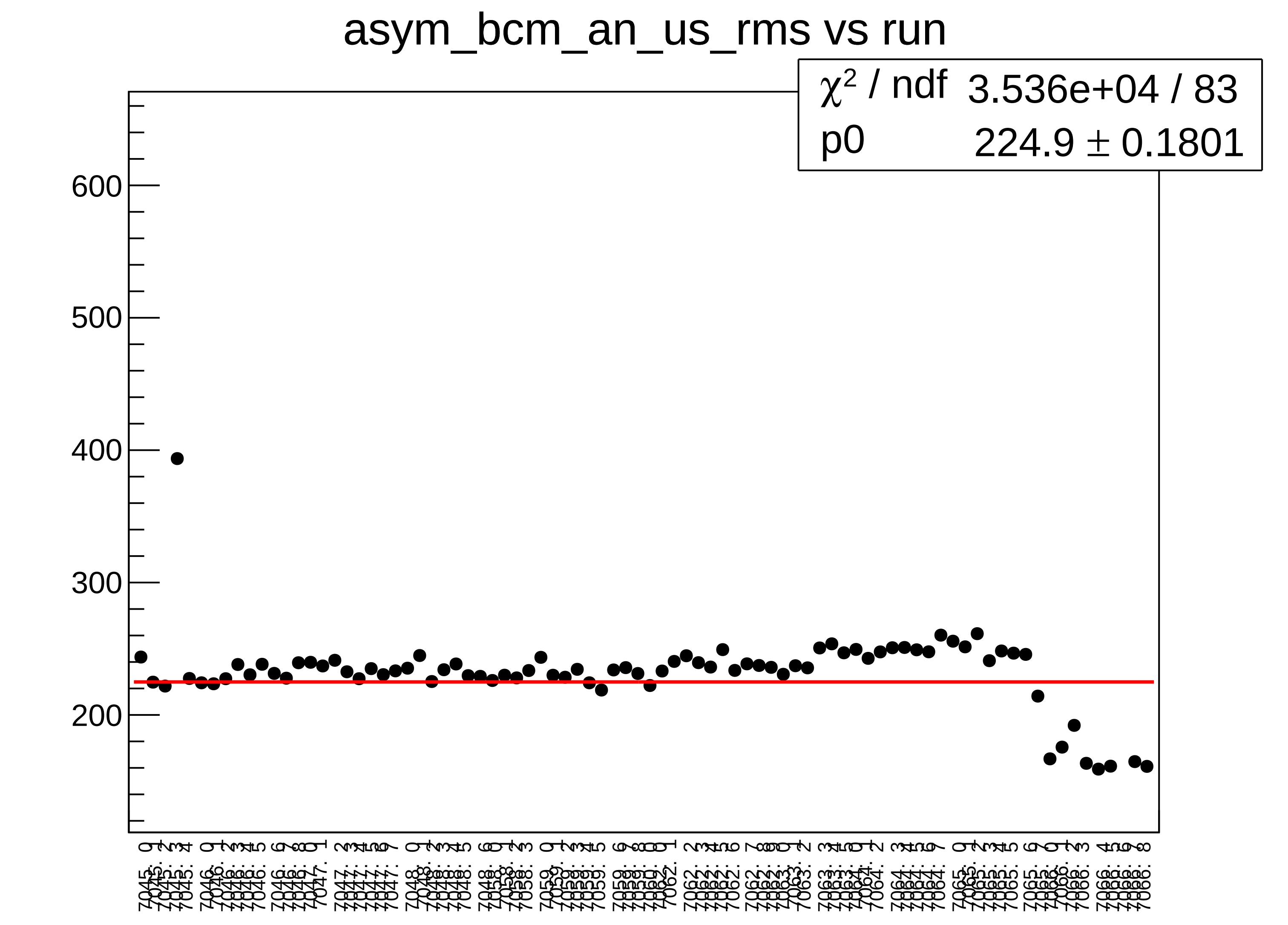


asym_bcm_an_ds3_mean vs run
$\chi^2$ / ndf 14.53 / 83
p0 −93.06 ± 255.6
pull
Entries 84
Mean −18.37
Std Dev 52.75
pull1D
Entries 84
Mean −0.0101
Std Dev 0.4158

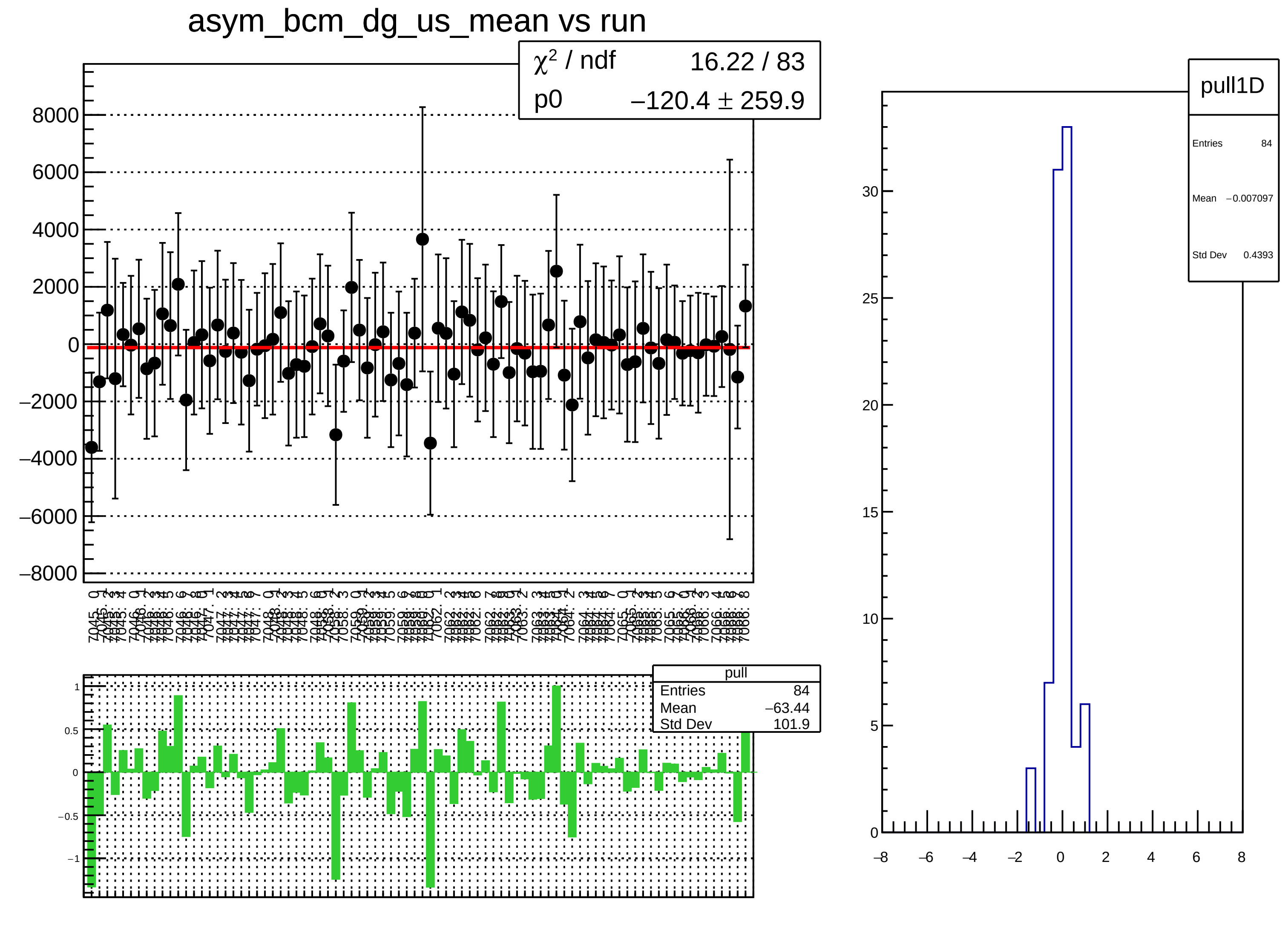

asym_bcm_an_ds3_rms vs run
$\chi^2$ / ndf 3.524e+04 / 83
p0 225.7 ± 0.1808
600
500
400
300
200



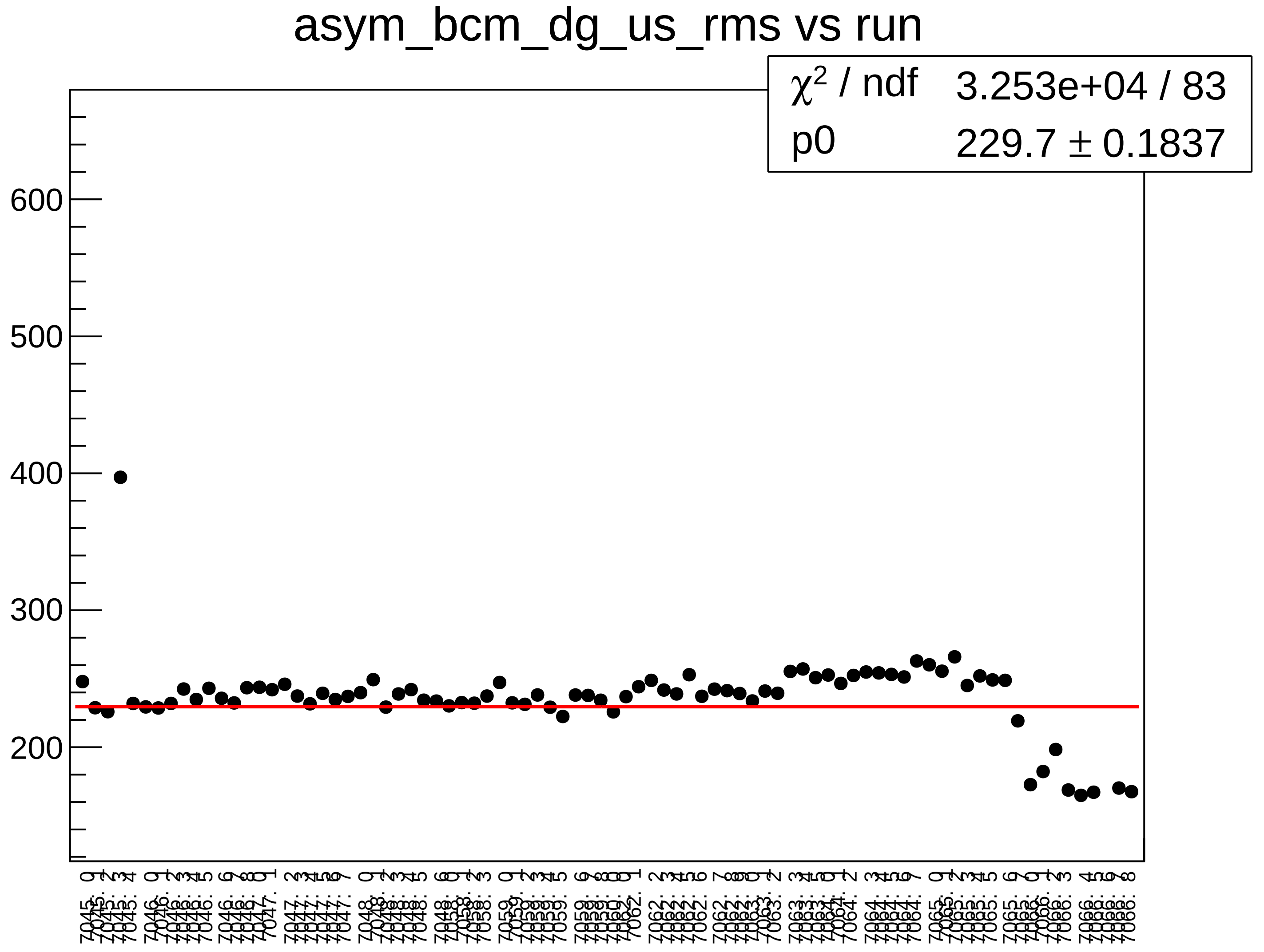
asym_bcm_an_us_mean vs run
χ² / ndf 14.06 / 83
p0 −44.16 ± 254.7
pull
Entries 84
Mean −11.38
Std Dev 47.61
pull1D
Entries 84
Mean −0.009836
Std Dev 0.409



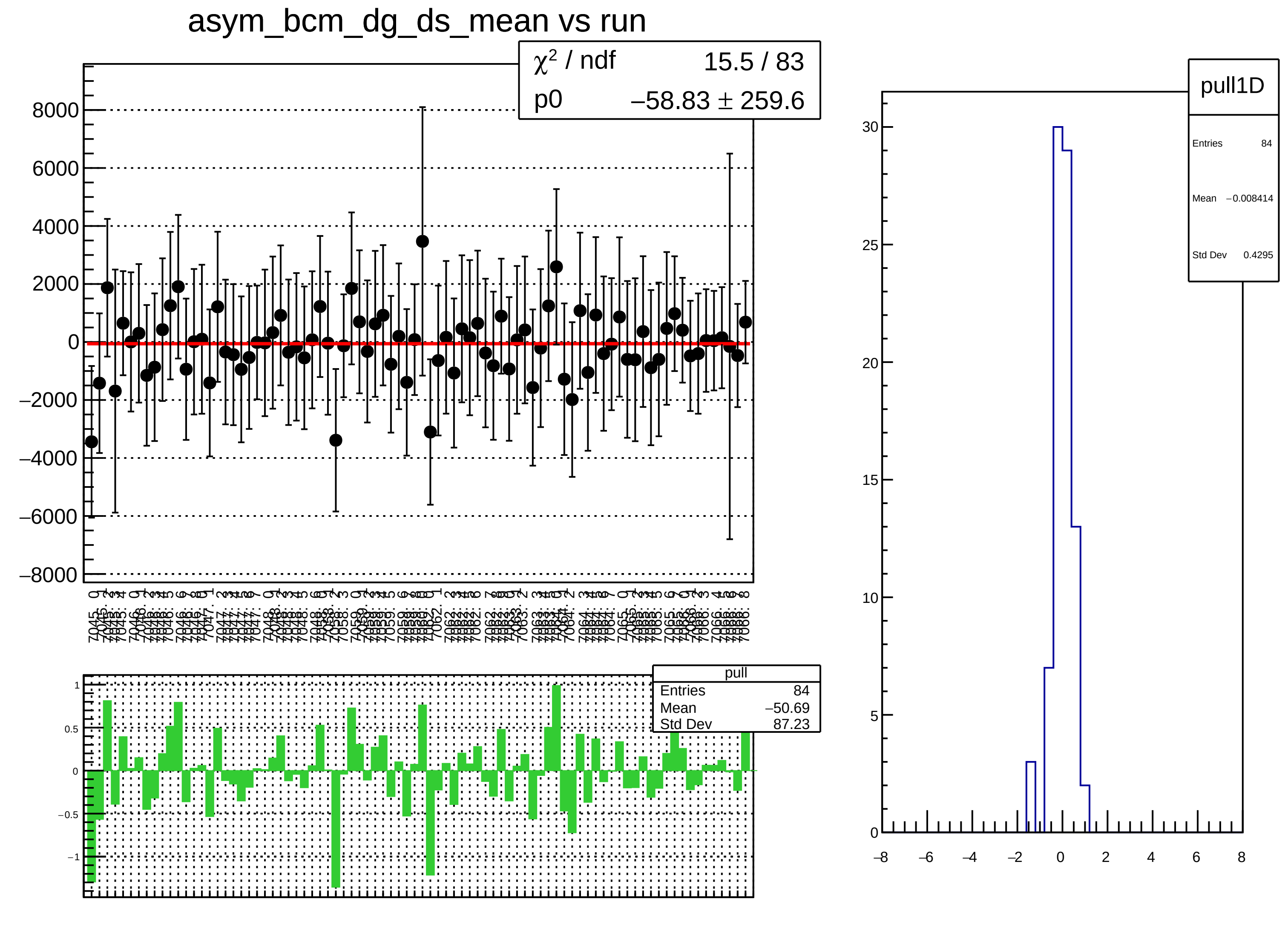
asym_bcm_an_us_rms vs run
$\chi^2$ / ndf 3.536e+04 / 83
p0 224.9 ± 0.1801
600
500
400
300
200



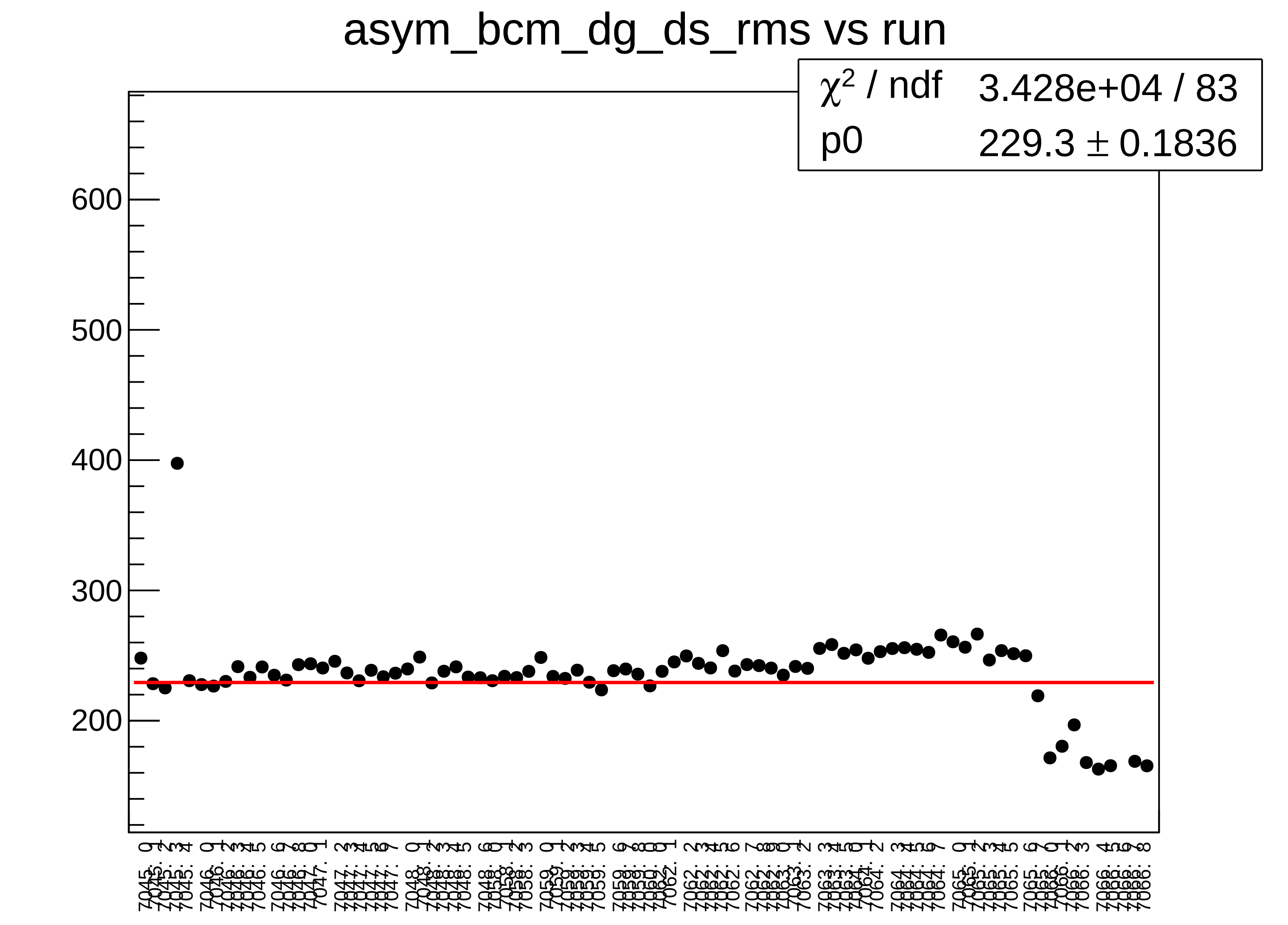
asym_bcm_dg_us_mean vs run
$\chi^2$ / ndf 16.22 / 83
p0 −120.4 ± 259.9
pull
Entries 84
Mean −63.44
Std Dev 101.9
pull1D
Entries 84
Mean −0.007097
Std Dev 0.4393

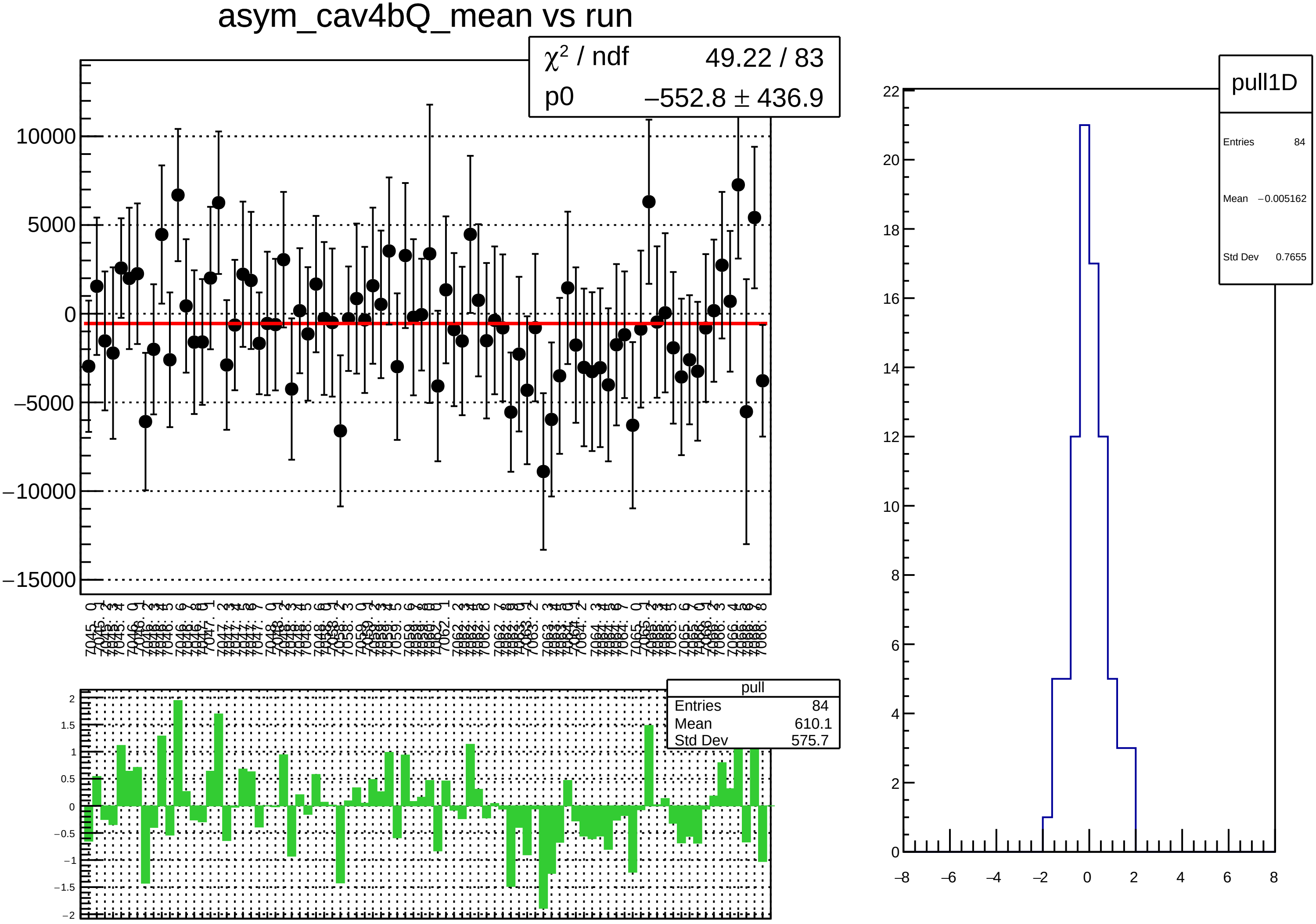


asym_bcm_dg_us_rms vs run
χ2 / ndf 3.253e+04 / 83
p0 229.7 ± 0.1837
600
500
400
300
200

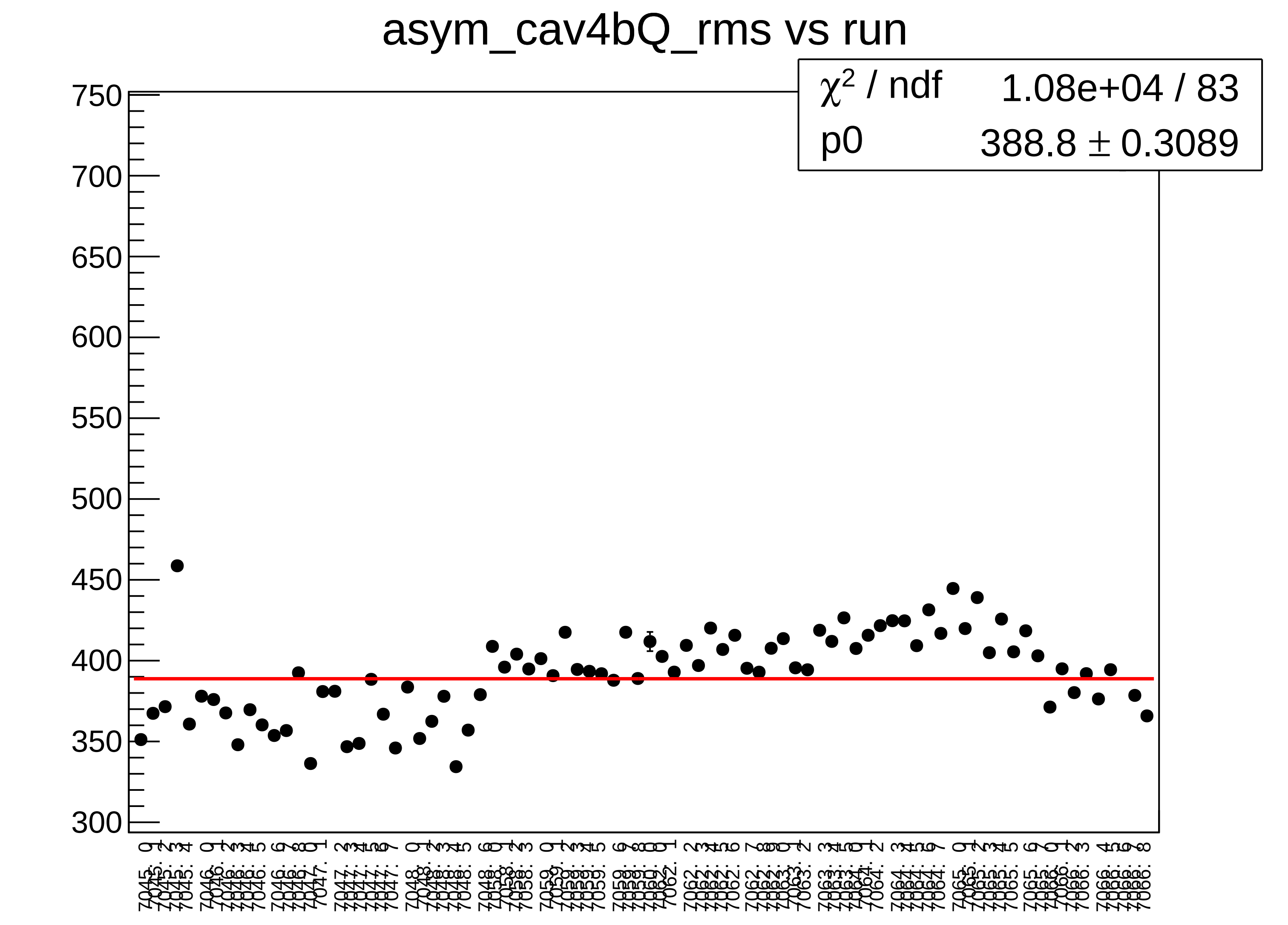


asym_bcm_dg_ds_mean vs run
$\chi^2$ / ndf 15.5 / 83
p0 −58.83 ± 259.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean −50.69
Std Dev 87.23
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean −0.008414
Std Dev 0.4295
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

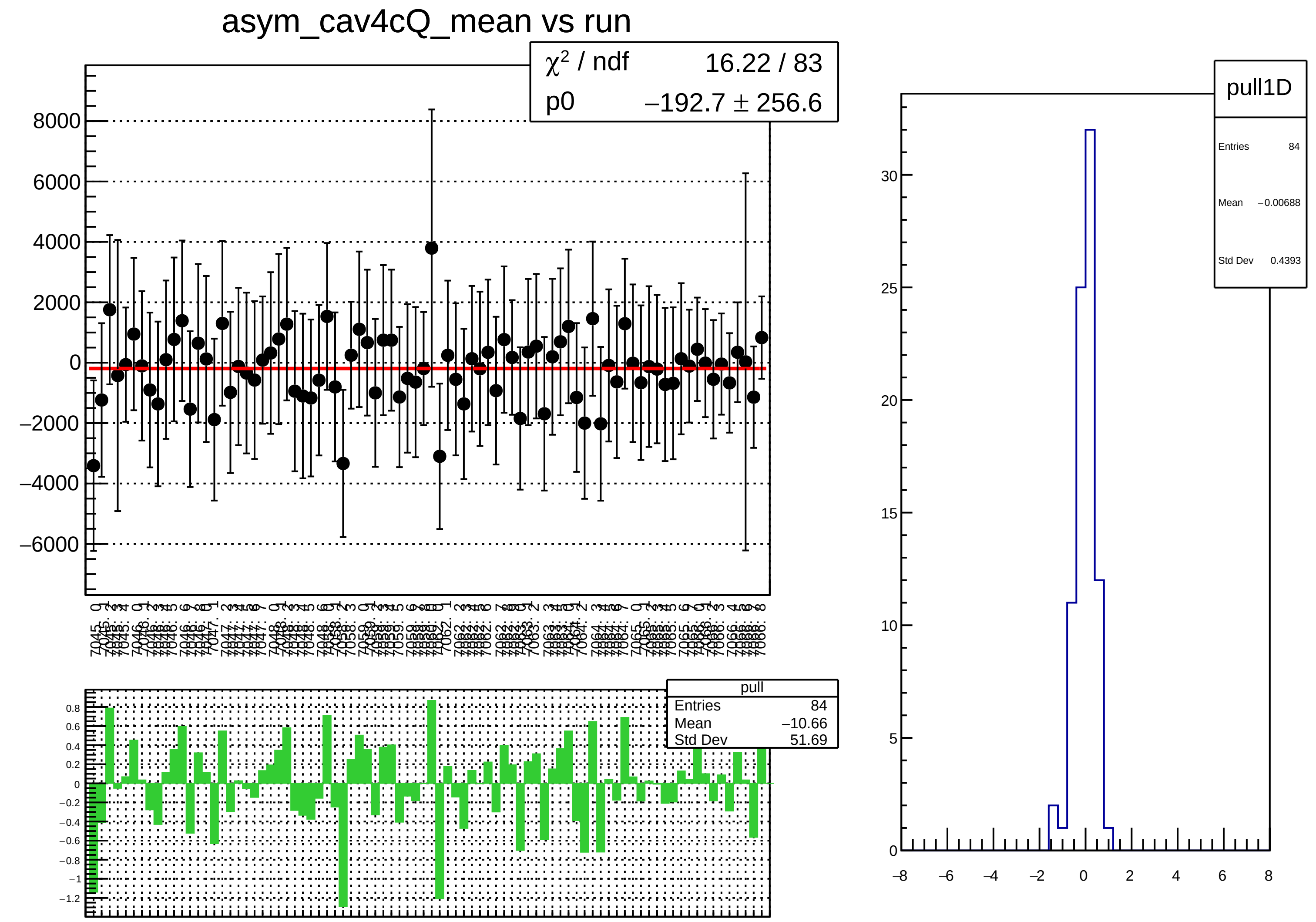

asym_bcm_dg_ds_rms vs run
$\chi^2$ / ndf 3.428e+04 / 83
p0 229.3 ± 0.1836
600
500
400
300
200

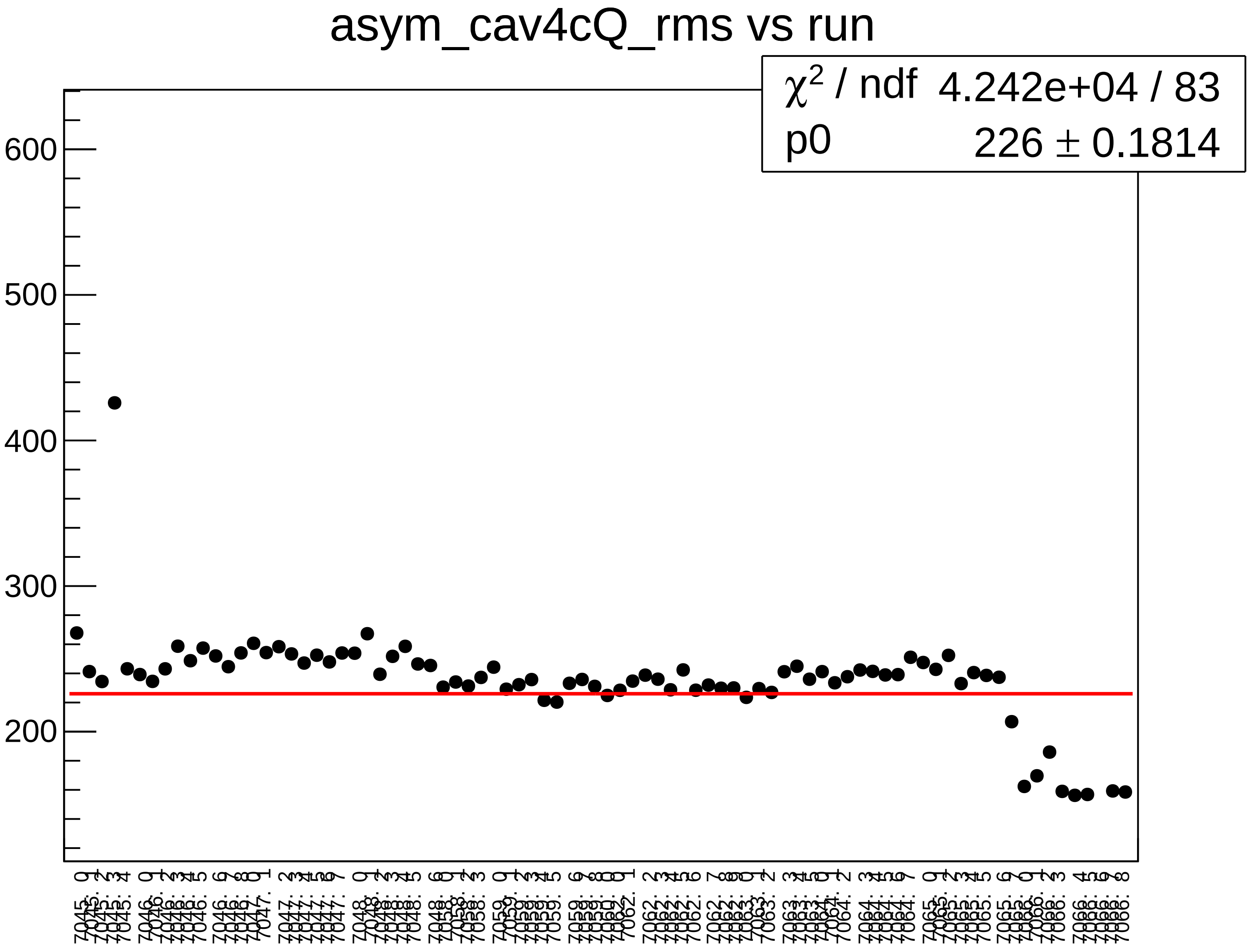


asym_cav4bQ_mean vs run
$\chi^2$ / ndf 49.22 / 83
p0 −552.8 ± 436.9
pull
Entries 84
Mean 610.1
Std Dev 575.7
pull1D
Entries 84
Mean −0.005162
Std Dev 0.7655

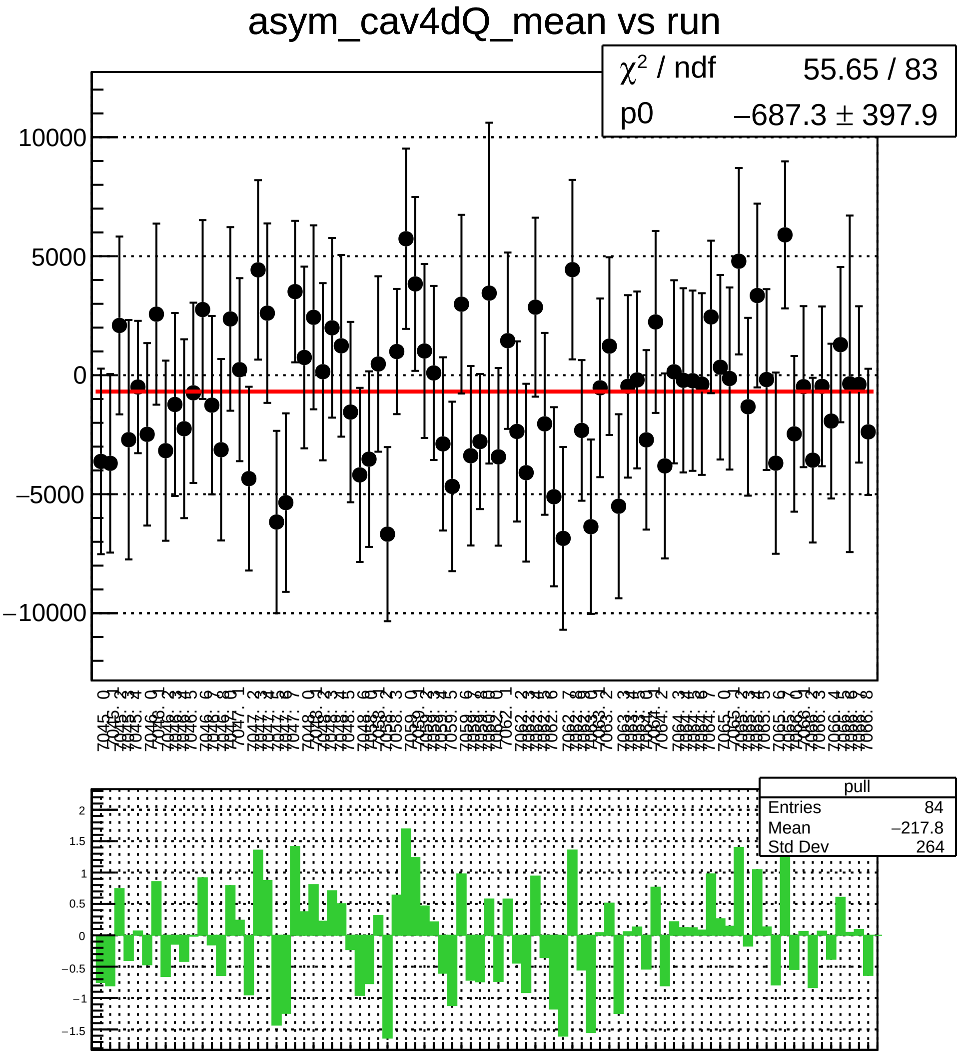


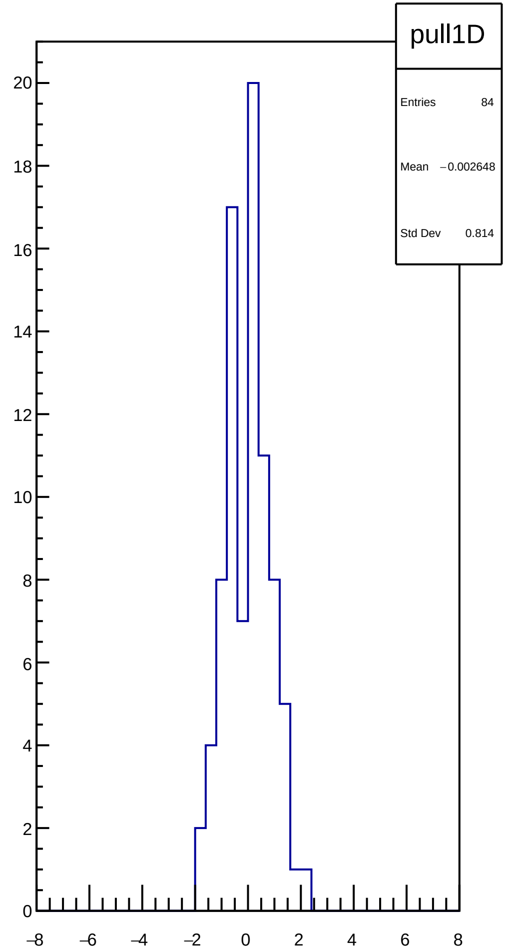
asym_cav4bQ_rms vs run
$\chi^2$ / ndf 1.08e+04 / 83
p0 388.8 ± 0.3089
750
700
650
600
550
500
450
400
350
300

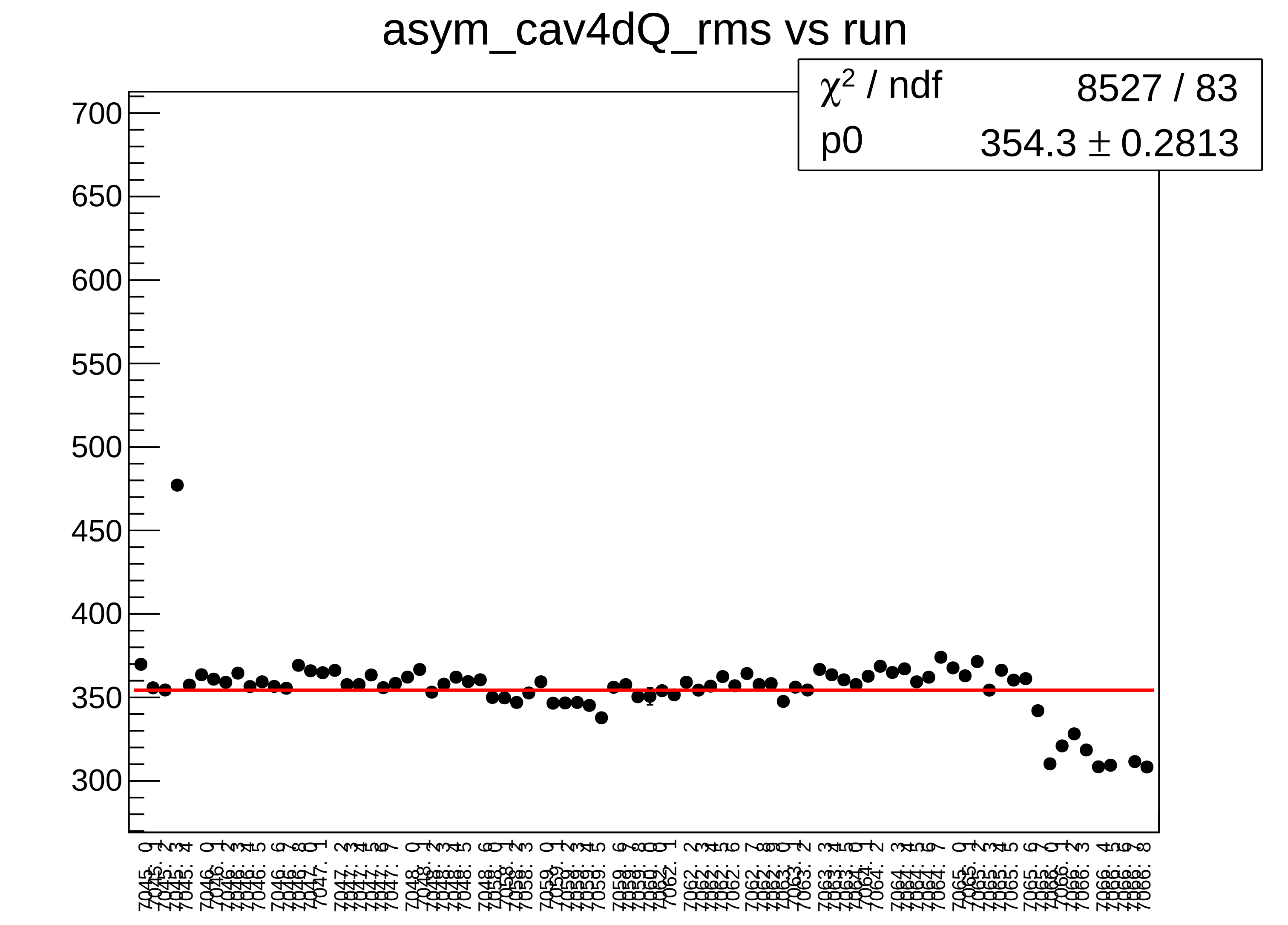

asym_cav4cQ_mean vs run
$\chi^2$ / ndf 16.22 / 83
p0 −192.7 ± 256.6
pull
Entries 84
Mean −10.66
Std Dev 51.69
pull1D
Entries 84
Mean −0.00688
Std Dev 0.4393



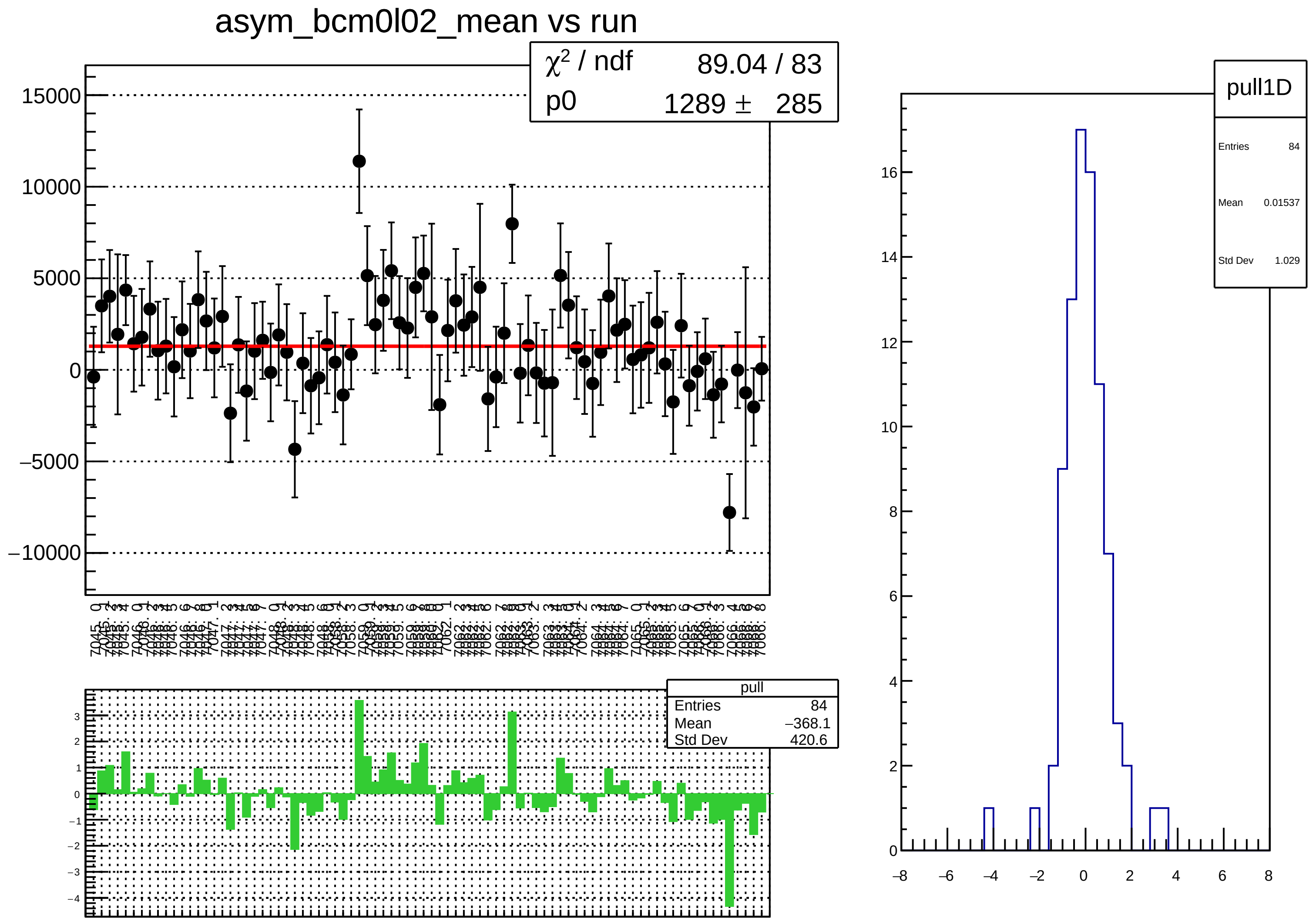
asym_cav4cQ_rms vs run
χ² / ndf 4.242e+04 / 83
p0 226 ± 0.1814
600
500
400
300
200


asym_cav4dQ_mean vs run
$\chi^2$ / ndf 55.65 / 83
p0 −687.3 ± 397.9
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −217.8
Std Dev 264
2
1.5
1
0.5
0
−0.5
−1
−1.5

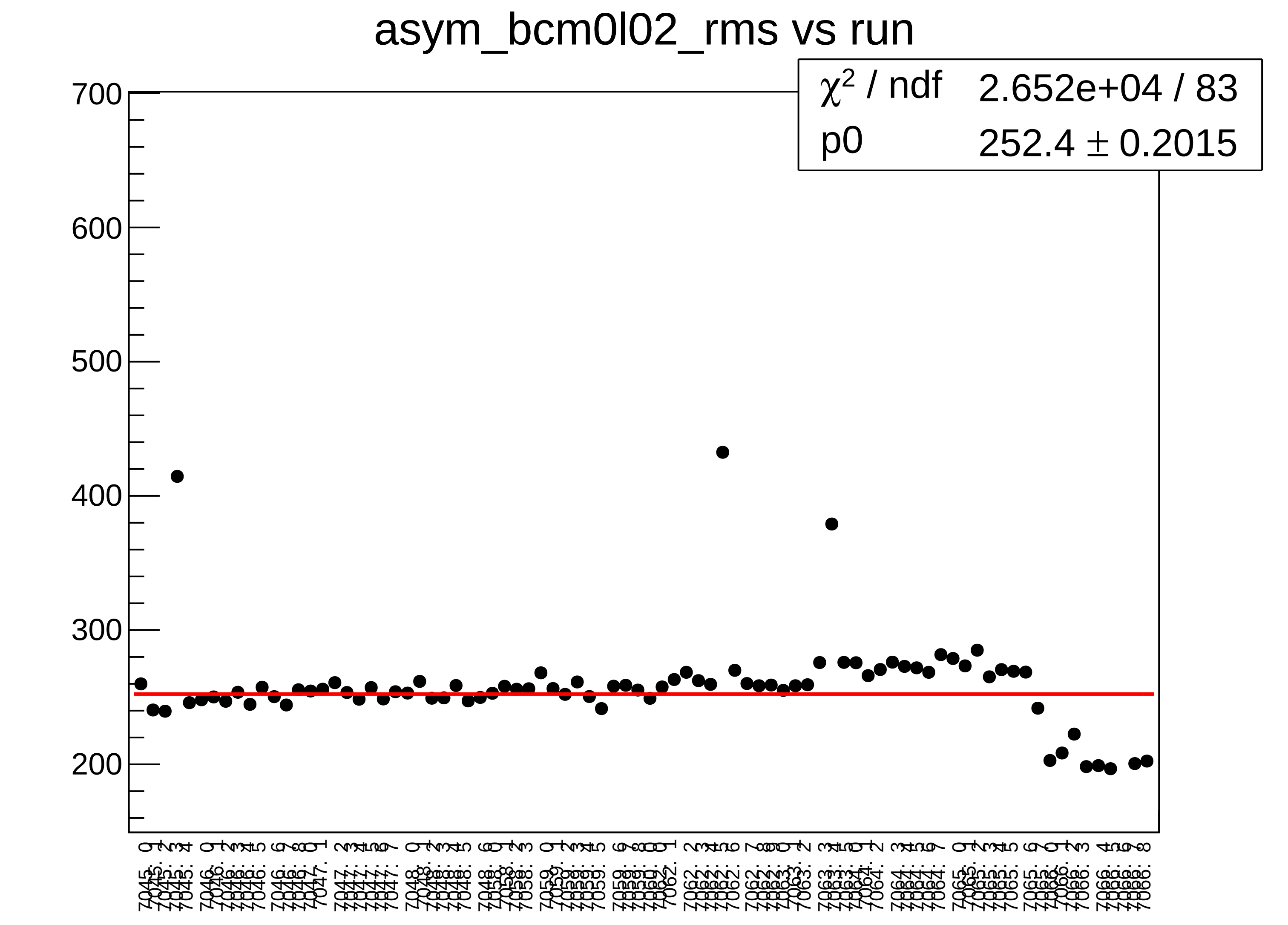

pull1D
Entries 84
Mean −0.002648
Std Dev 0.814
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

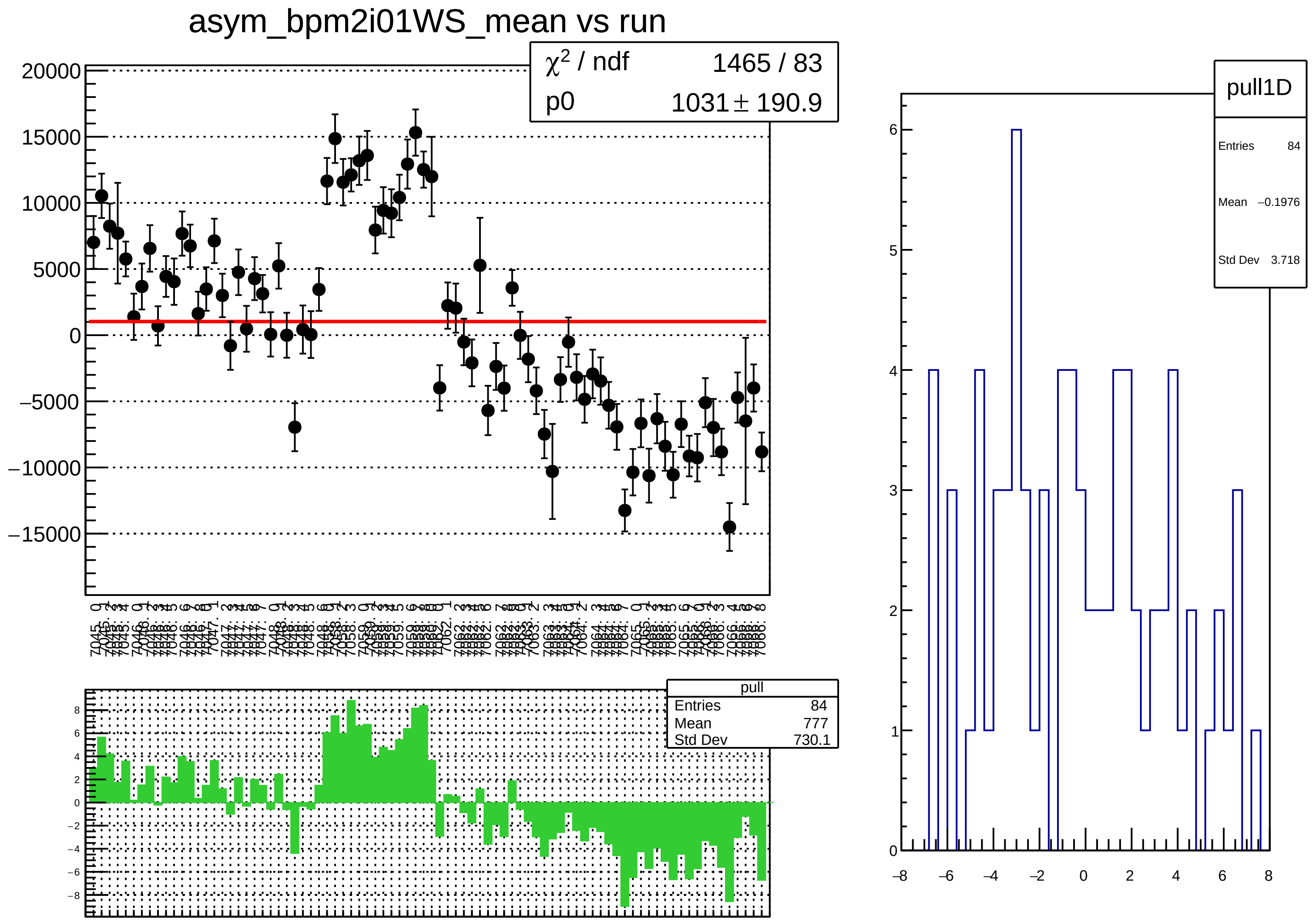


asym_cav4dQ_rms vs run
χ2 / ndf 8527 / 83
p0 354.3 ± 0.2813
700
650
600
550
500
450
400
350
300

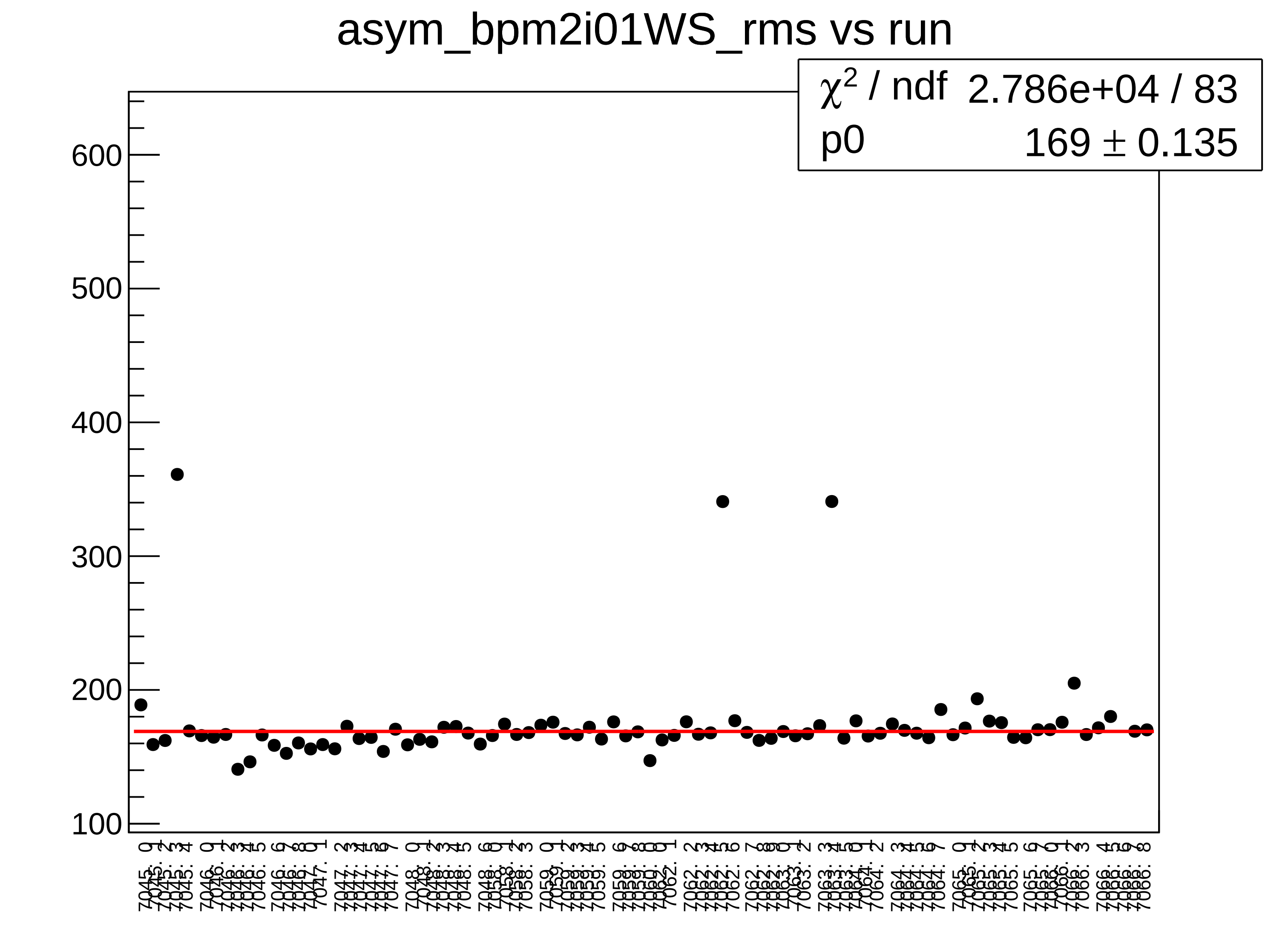


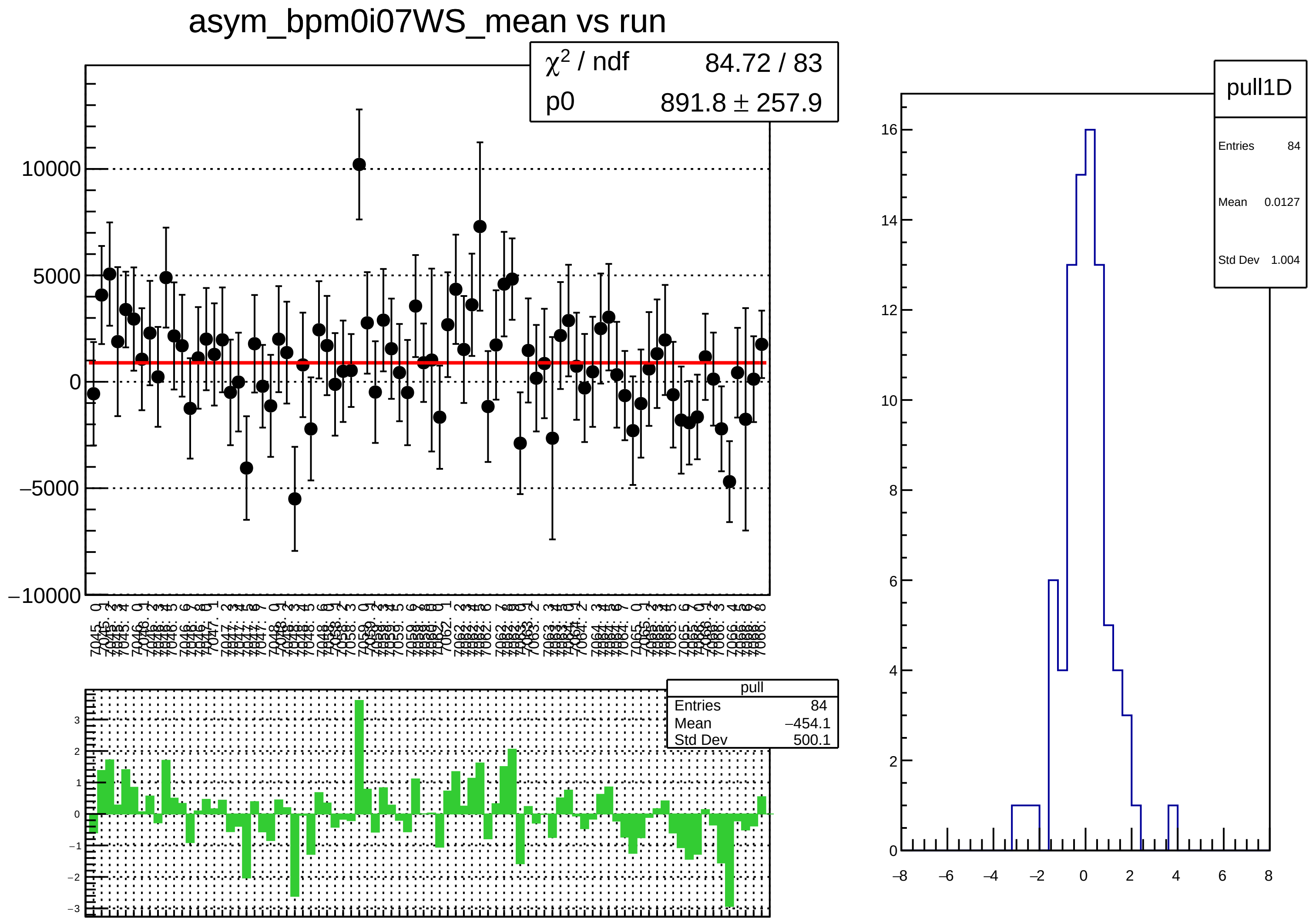
asym_bcm0l02_mean vs run
χ2 / ndf 89.04 / 83
p0 1289 ± 285
pull
Entries 84
Mean −368.1
Std Dev 420.6
pull1D
Entries 84
Mean 0.01537
Std Dev 1.029


asym_bcm0l02_rms vs run
χ2 / ndf 2.652e+04 / 83
p0 252.4 ± 0.2015
700
600
500
400
300
200

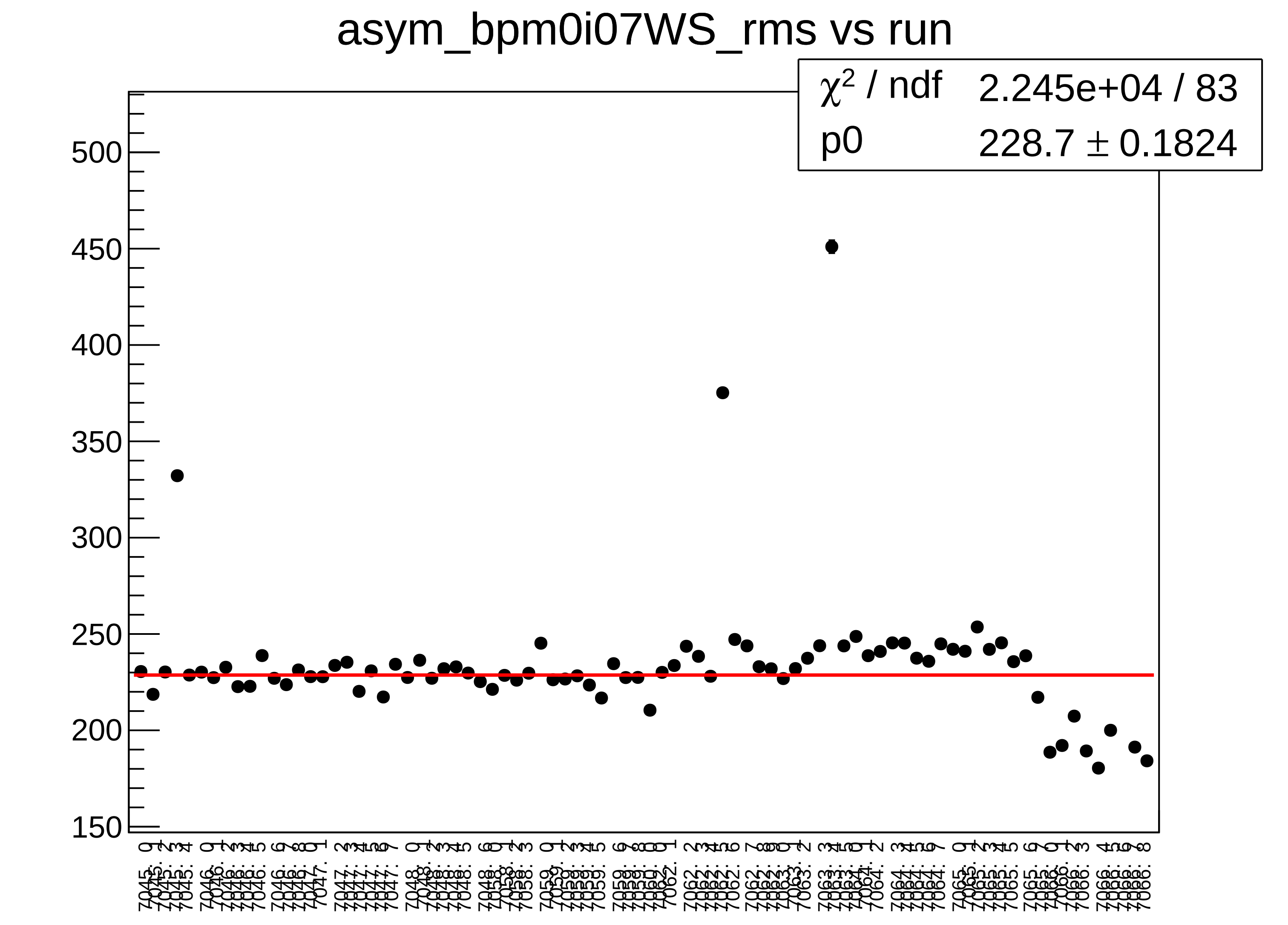


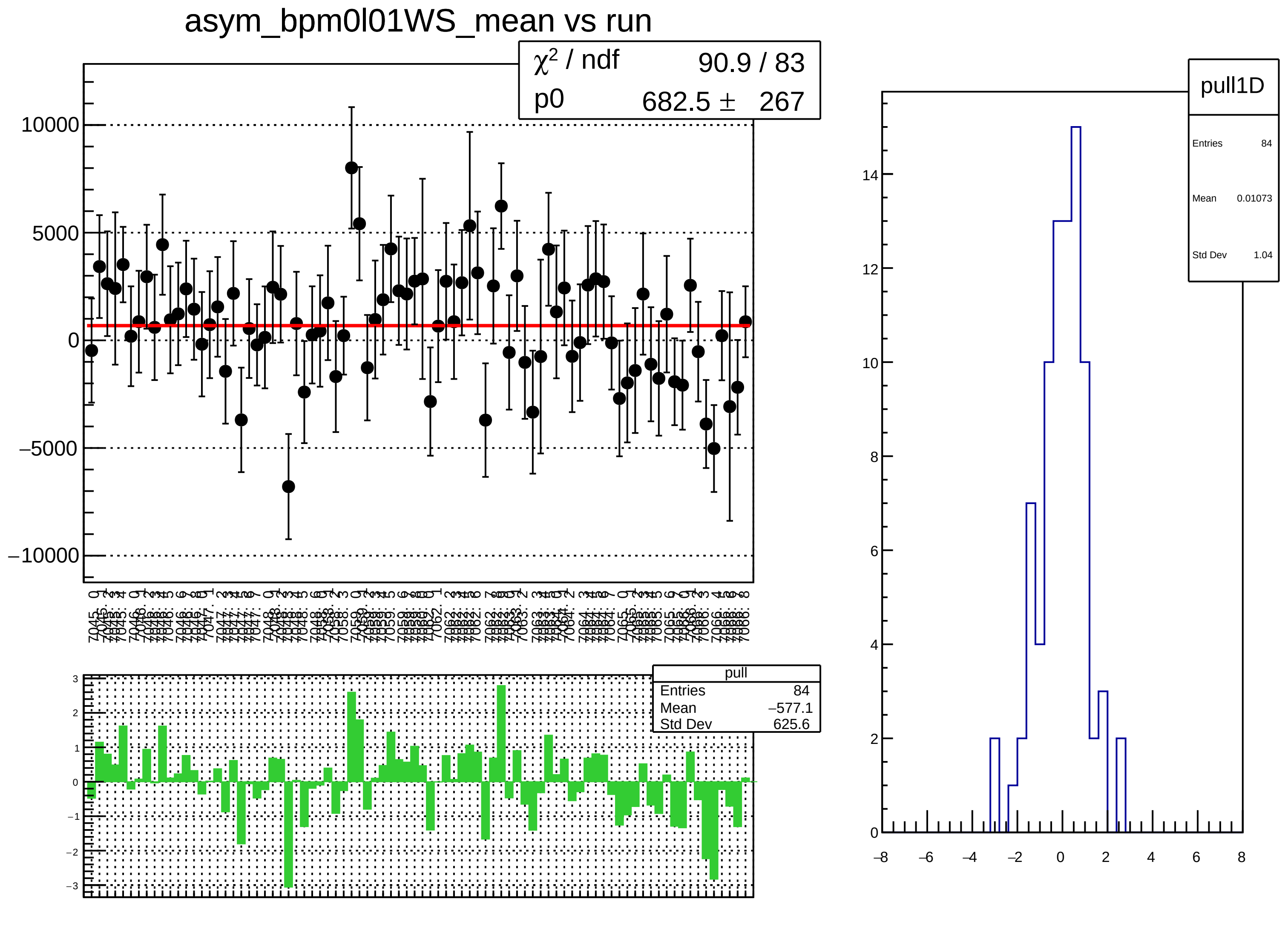
asym_bpm2i01WS_mean vs run
χ2 / ndf 1465 / 83
p0 1031 ± 190.9
pull
Entries 84
Mean 777
Std Dev 730.1
pull1D
Entries 84
Mean −0.1976
Std Dev 3.718


asym_bpm2i01WS_rms vs run
$\chi^2$ / ndf 2.786e+04 / 83
p0 169 ± 0.135
600
500
400
300
200
100

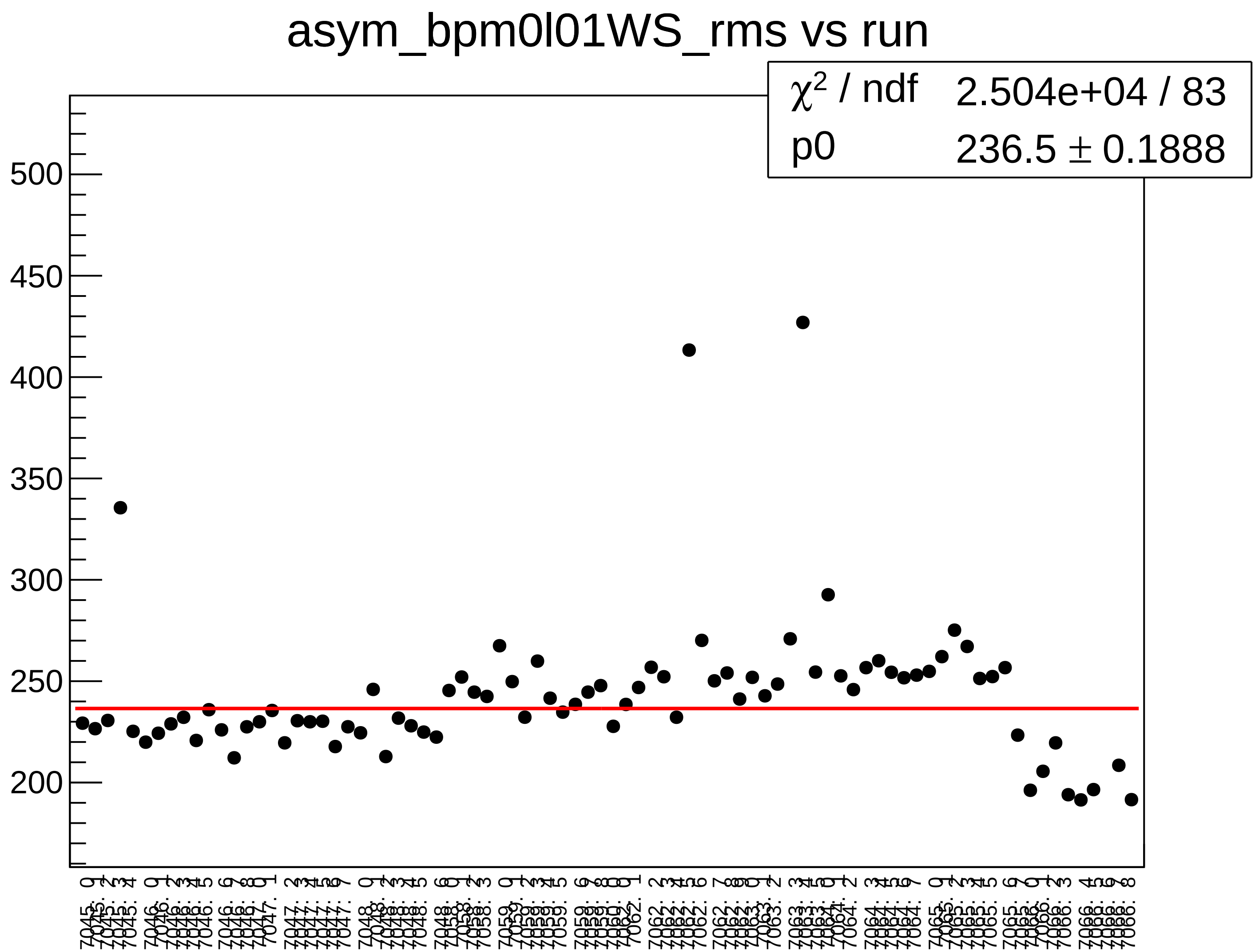


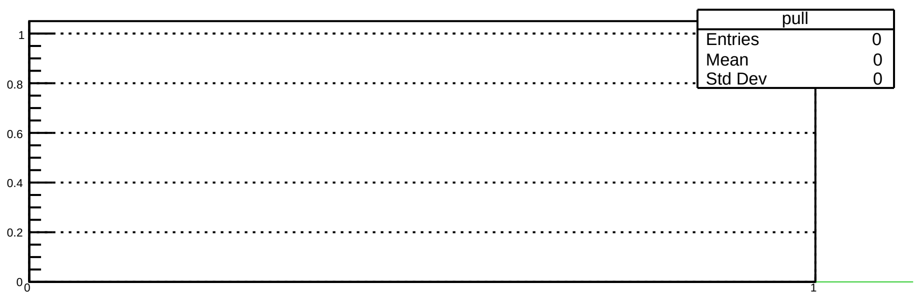
asym_bpm0i07WS_mean vs run
$\chi^2$ / ndf 84.72 / 83
p0 891.8 ± 257.9
pull
Entries 84
Mean −454.1
Std Dev 500.1
pull1D
Entries 84
Mean 0.0127
Std Dev 1.004

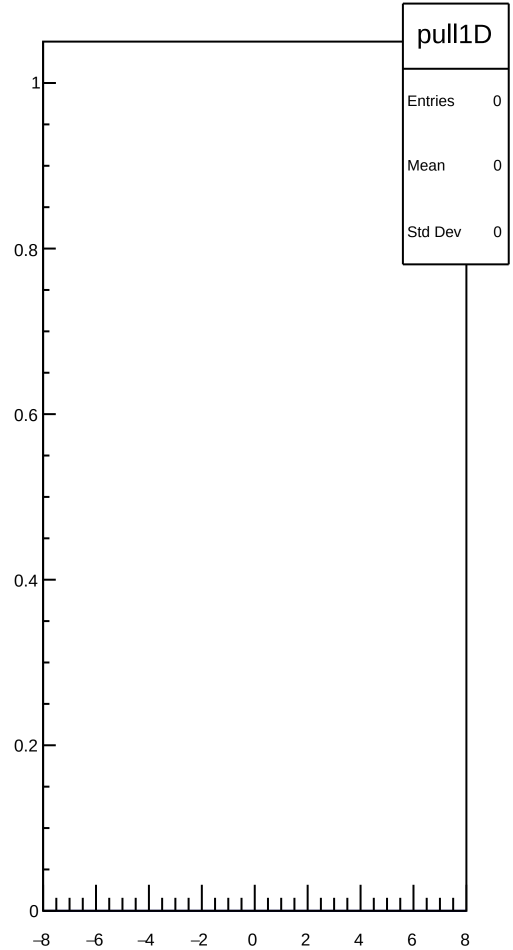

asym_bpm0i07WS_rms vs run
χ2 / ndf 2.245e+04 / 83
p0 228.7 ± 0.1824
500
450
400
350
300
250
200
150

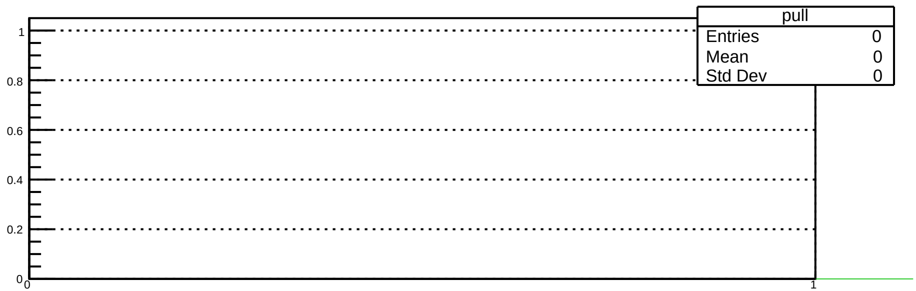


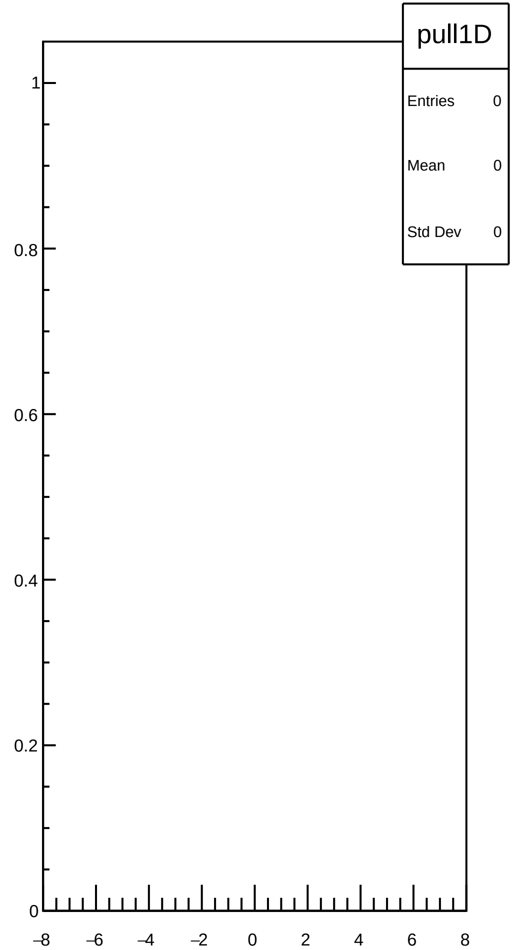
asym_bpm0l01WS_mean vs run
$\chi^2$ / ndf 90.9 / 83
p0 682.5 ± 267
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −577.1
Std Dev 625.6
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.01073
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

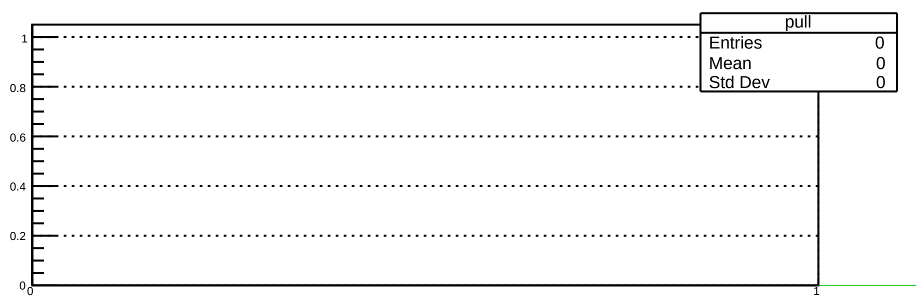

asym_bpm0l01WS_rms vs run
χ2 / ndf 2.504e+04 / 83
p0 236.5 ± 0.1888

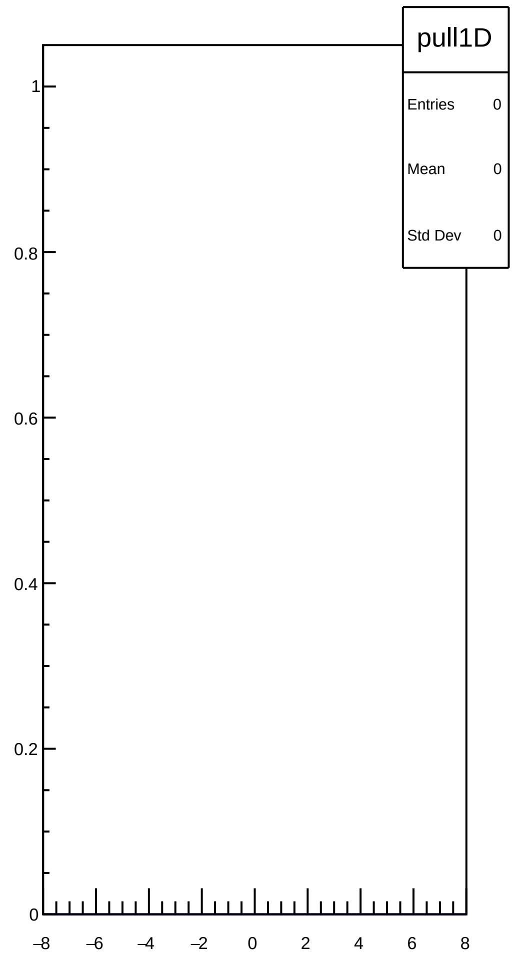

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

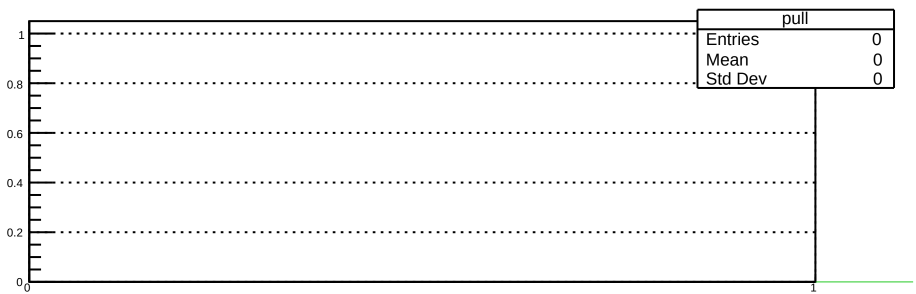
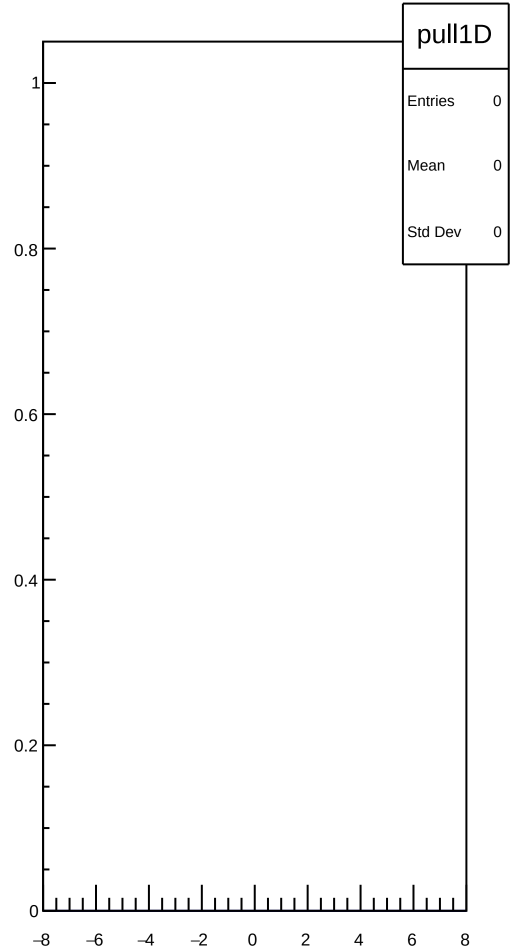

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

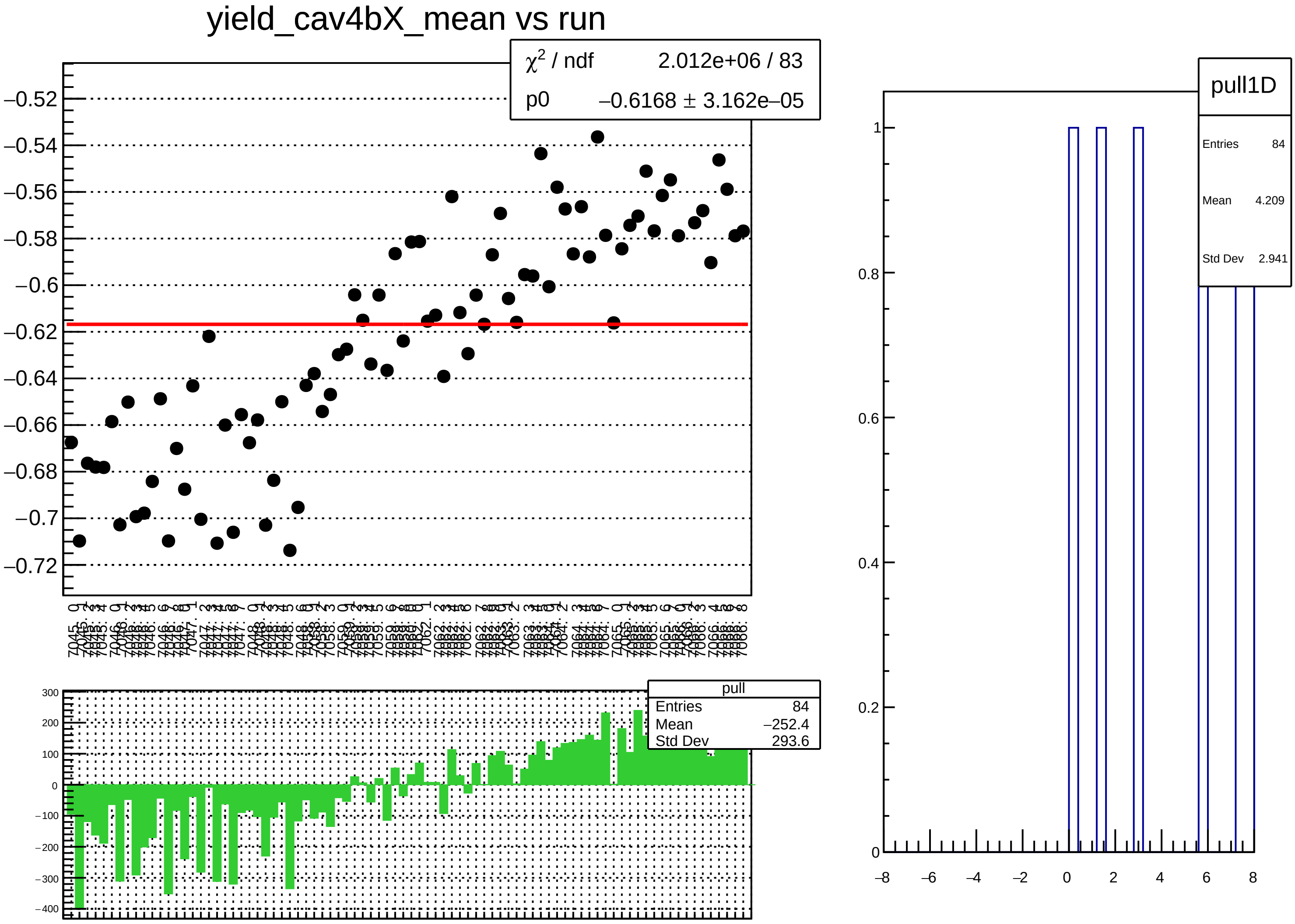

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

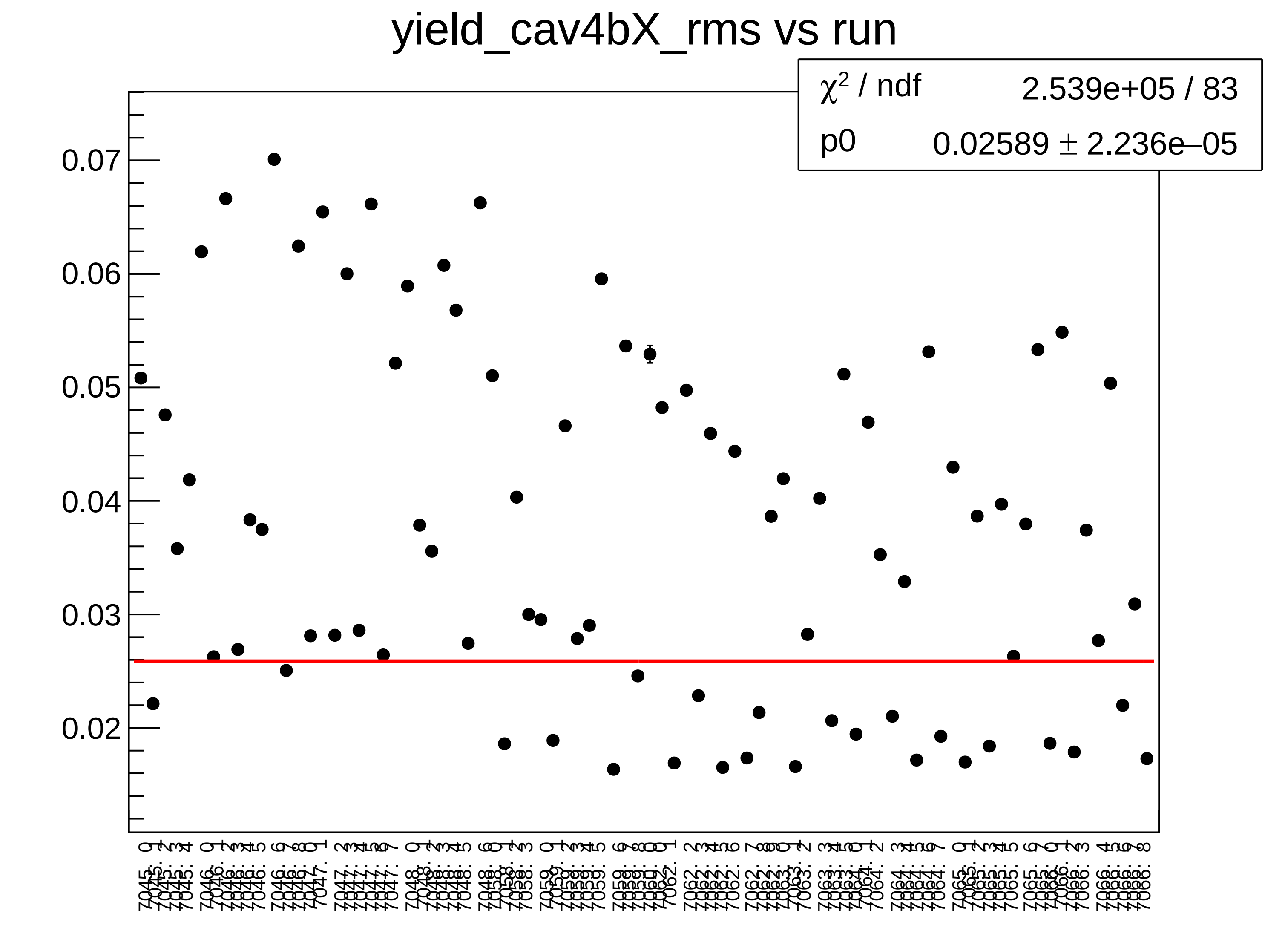

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

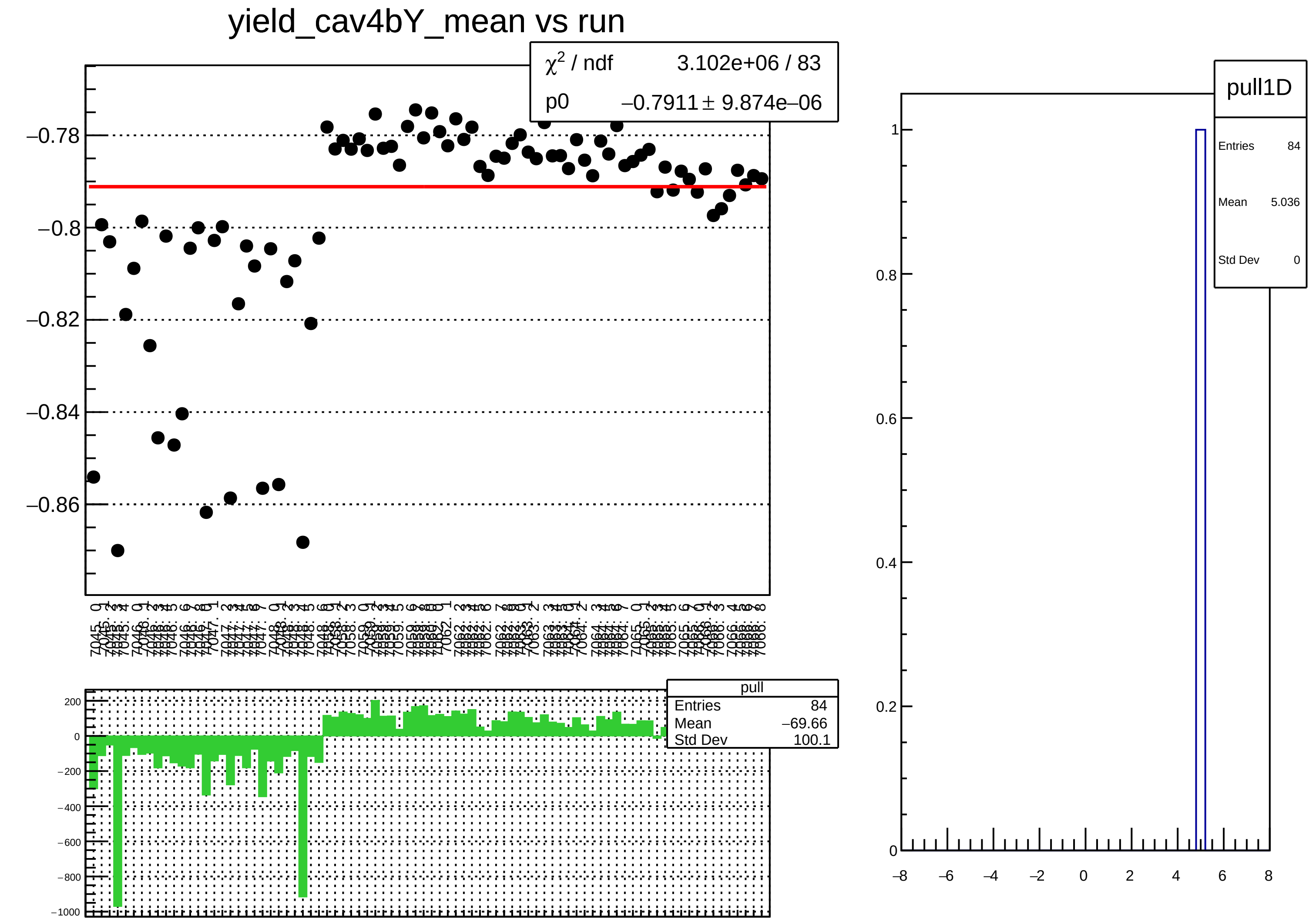

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8

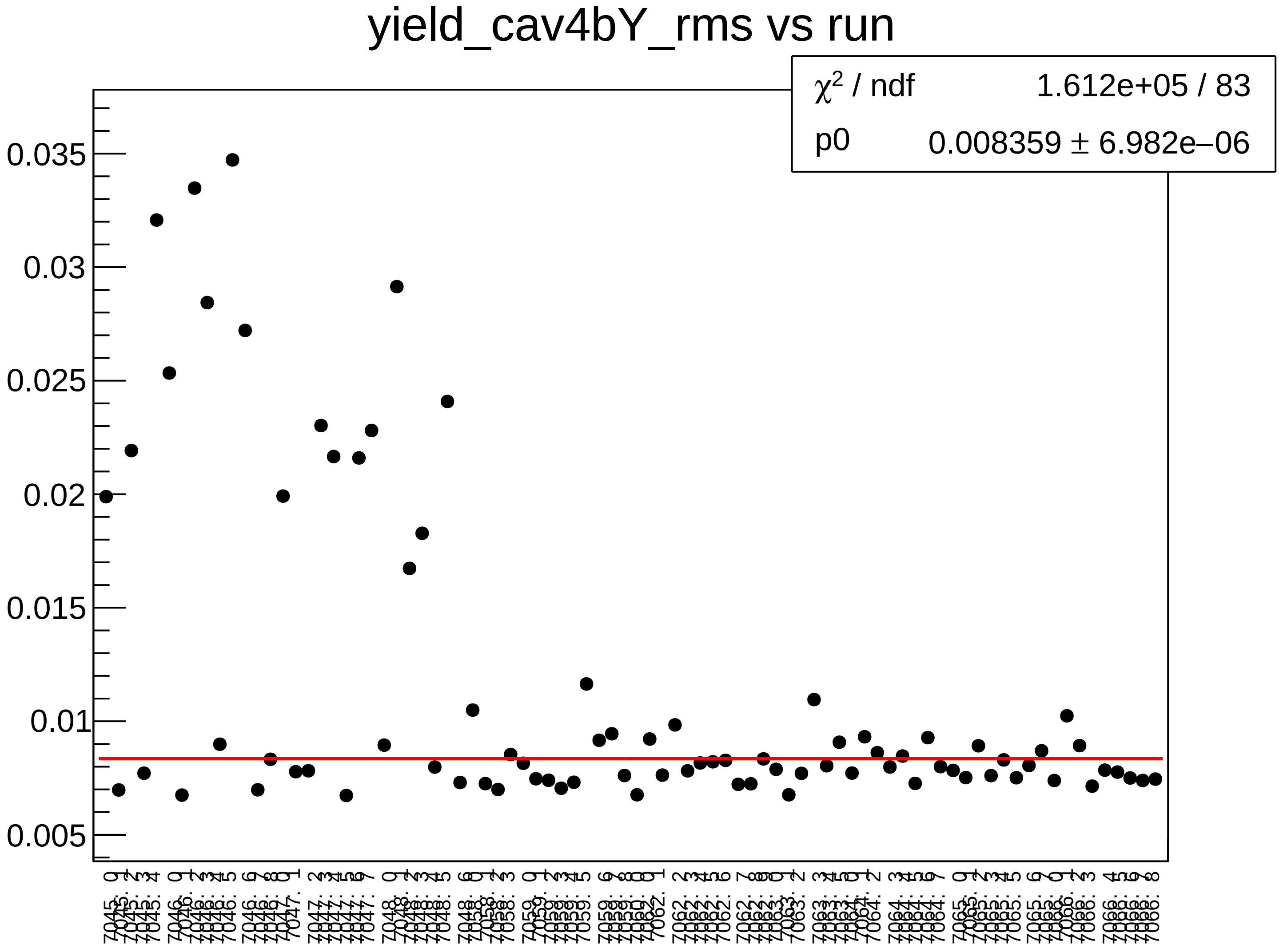

yield_cav4bX_mean vs run
$\chi^2$ / ndf 2.012e+06 / 83
p0 −0.6168 ± 3.162e−05
pull
Entries 84
Mean −252.4
Std Dev 293.6
pull1D
Entries 84
Mean 4.209
Std Dev 2.941

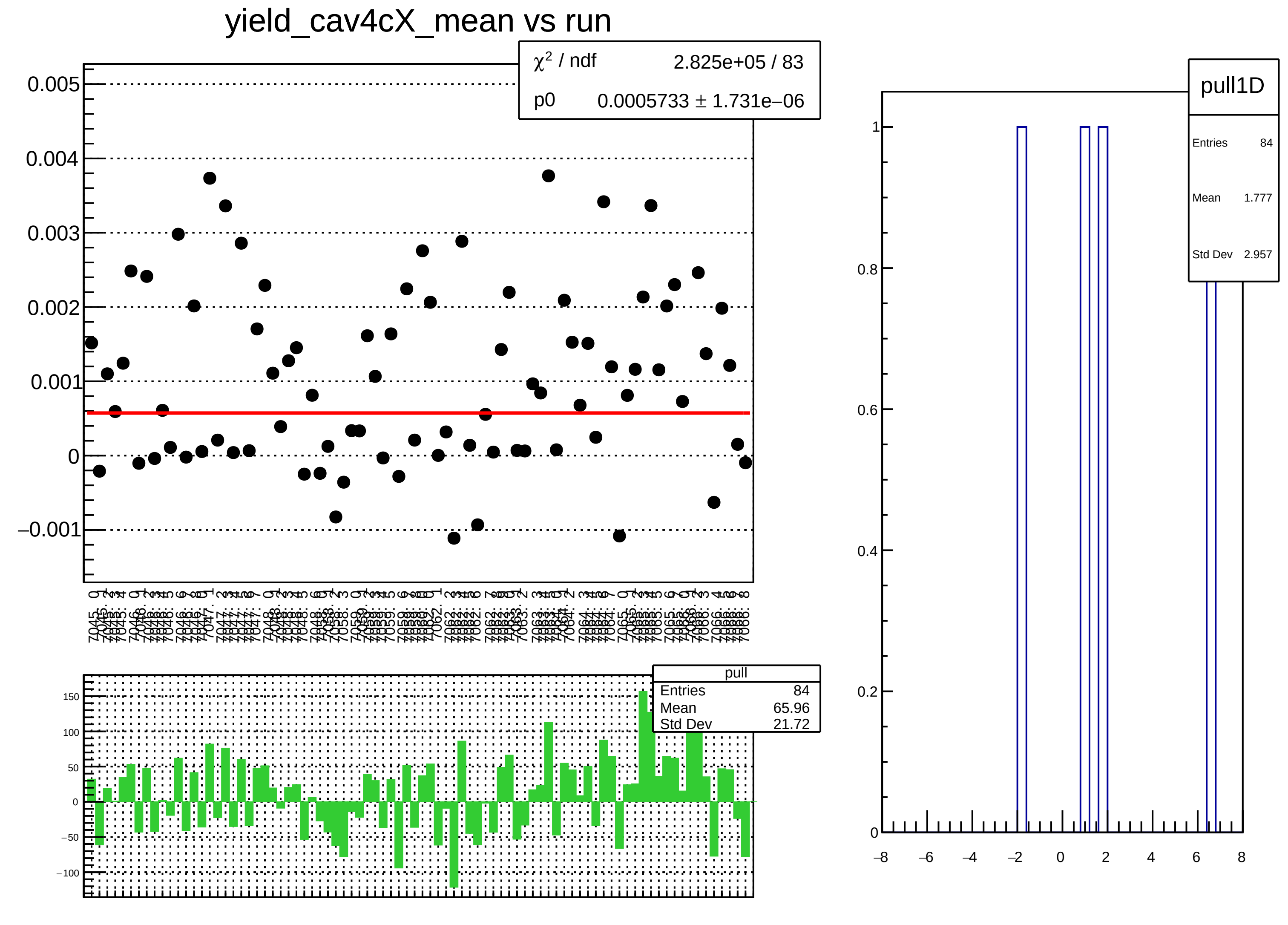


yield_cav4bX_rms vs run
χ² / ndf 2.539e+05 / 83
p0 0.02589 ± 2.236e−05
0.07
0.06
0.05
0.04
0.03
0.02

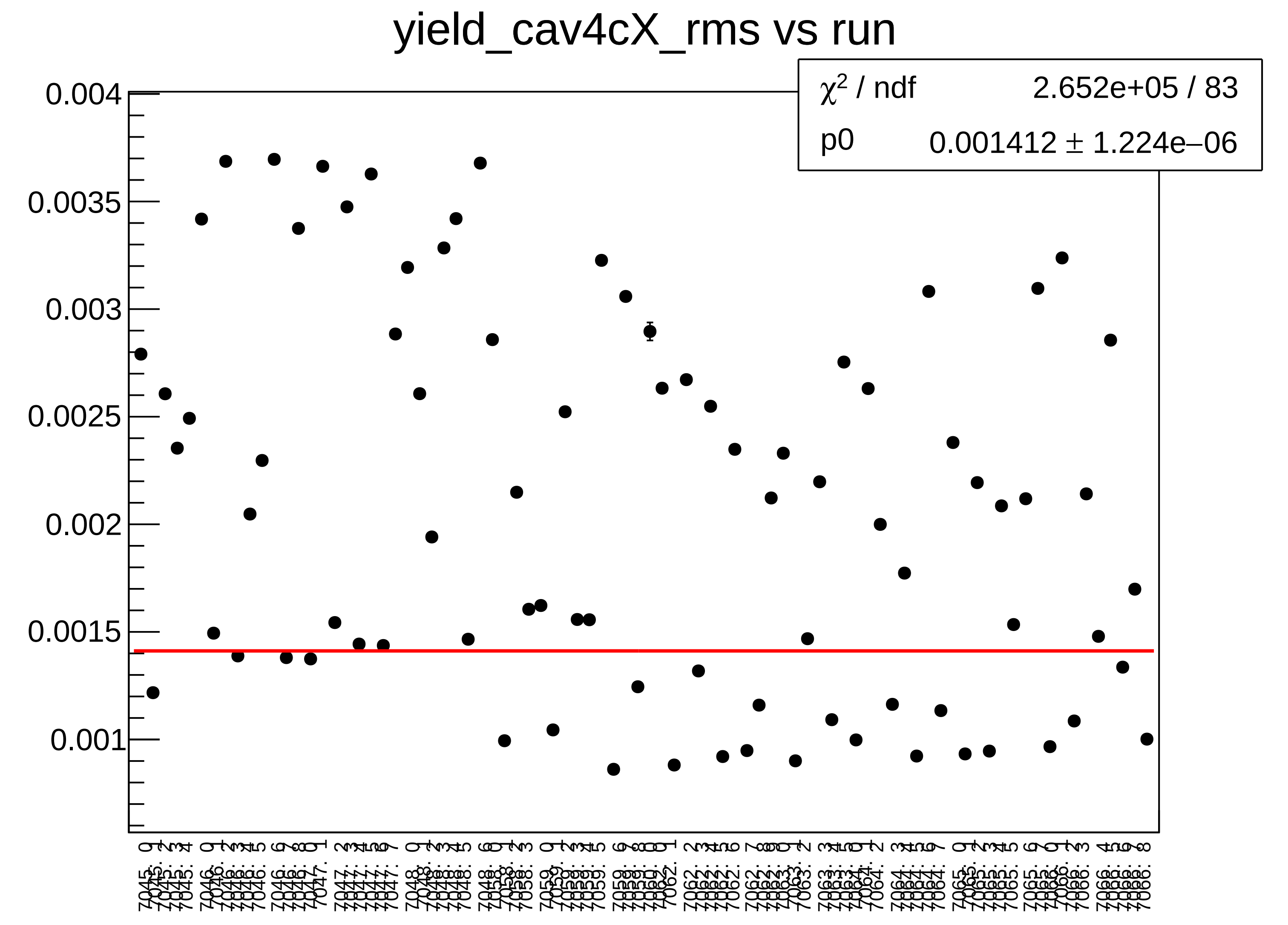


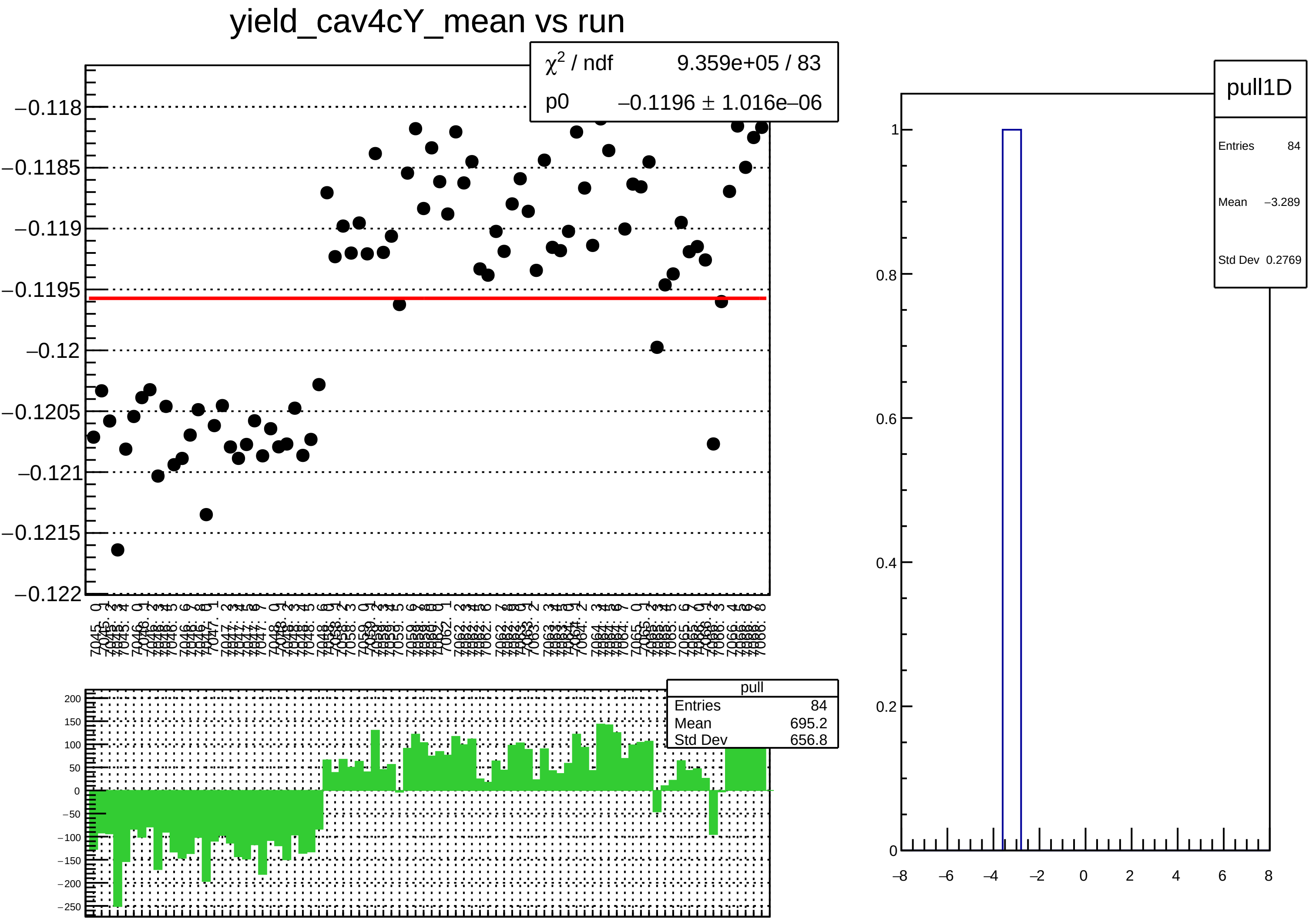
yield_cav4bY_mean vs run
$\chi^2$ / ndf 3.102e+06 / 83
p0 −0.7911 ± 9.874e−06
pull
Entries 84
Mean −69.66
Std Dev 100.1
pull1D
Entries 84
Mean 5.036
Std Dev 0


yield_cav4bY_rms vs run
χ2 / ndf 1.612e+05 / 83
p0 0.008359 ± 6.982e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

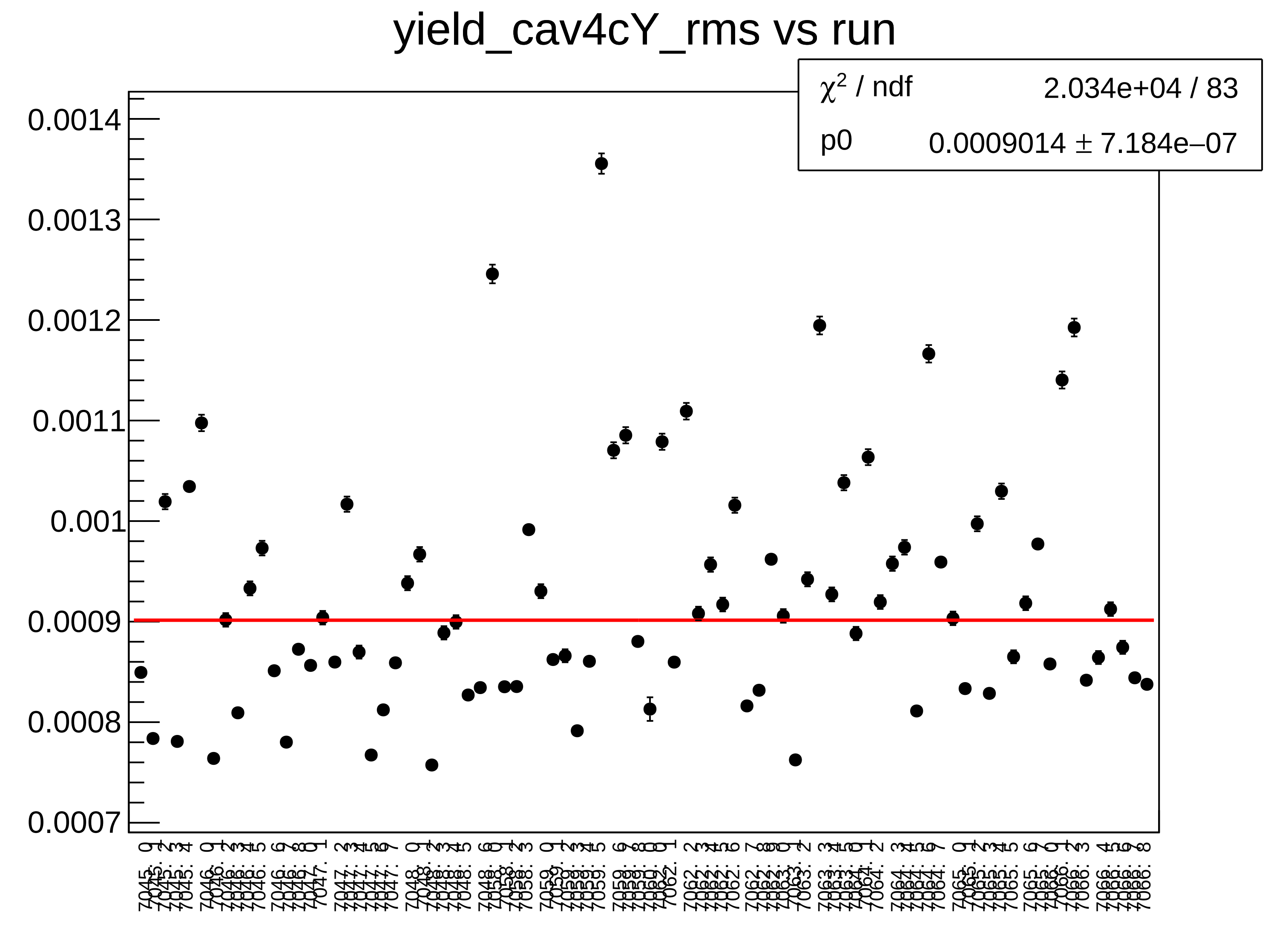


yield_cav4cX_mean vs run
$\chi^2$ / ndf 2.825e+05 / 83
p0 0.0005733 ± 1.731e−06
pull
Entries 84
Mean 65.96
Std Dev 21.72
pull1D
Entries 84
Mean 1.777
Std Dev 2.957

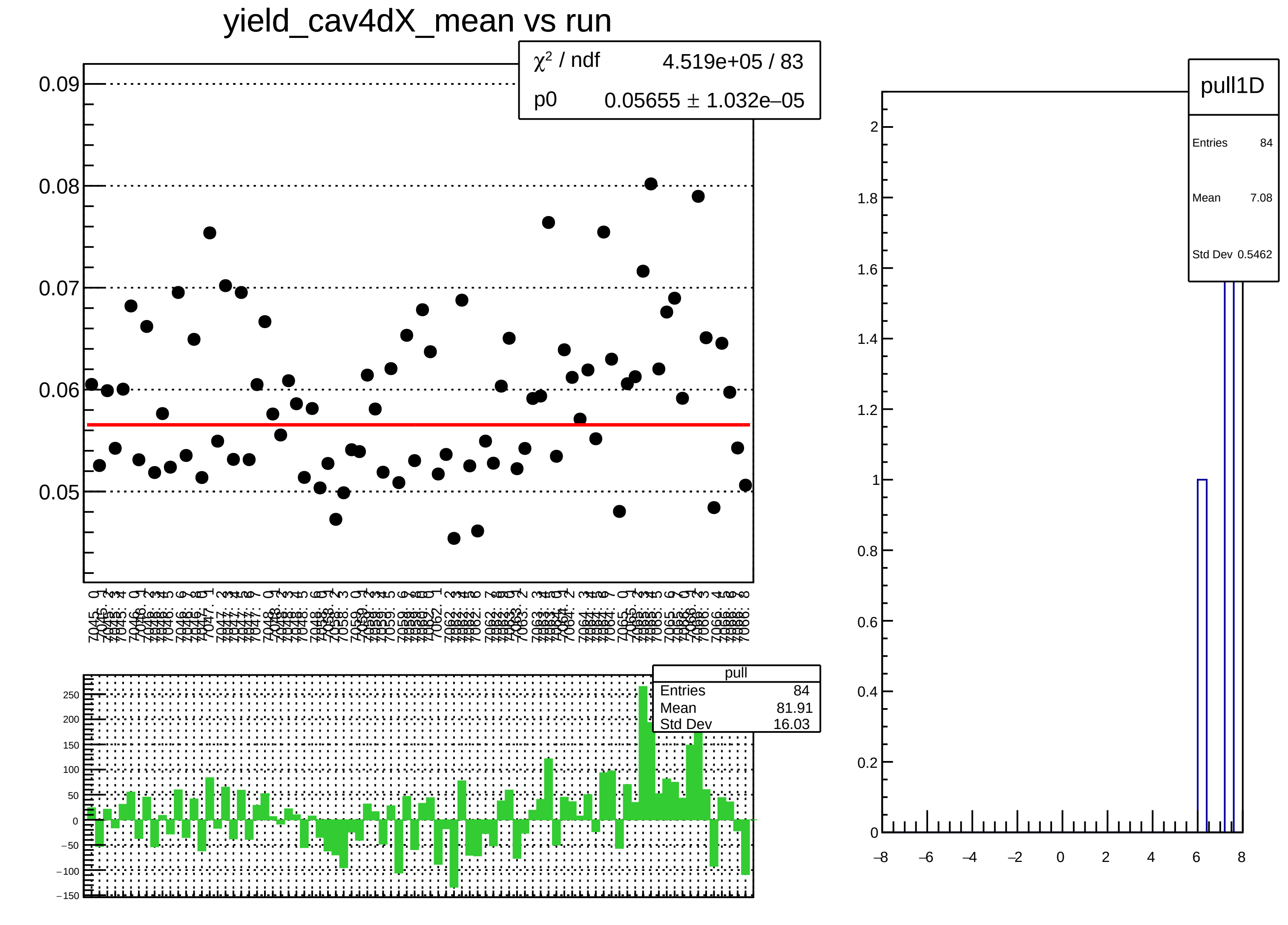

yield_cav4cX_rms vs run
$\chi^2$ / ndf 2.652e+05 / 83
p0 0.001412 ± 1.224e−06



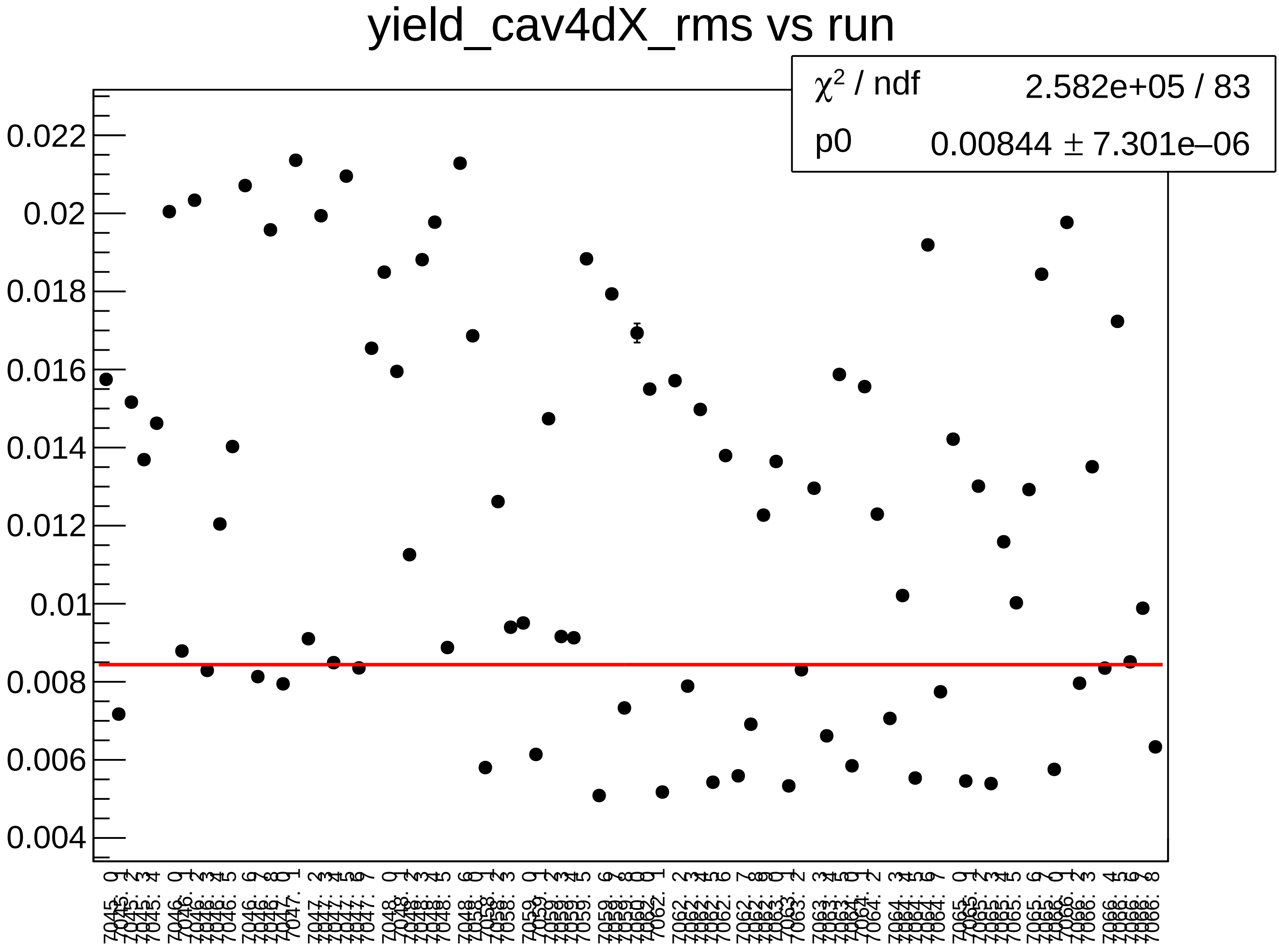
yield_cav4cY_mean vs run
χ2 / ndf 9.359e+05 / 83
p0 −0.1196 ± 1.016e−06
pull
Entries 84
Mean 695.2
Std Dev 656.8
pull1D
Entries 84
Mean −3.289
Std Dev 0.2769



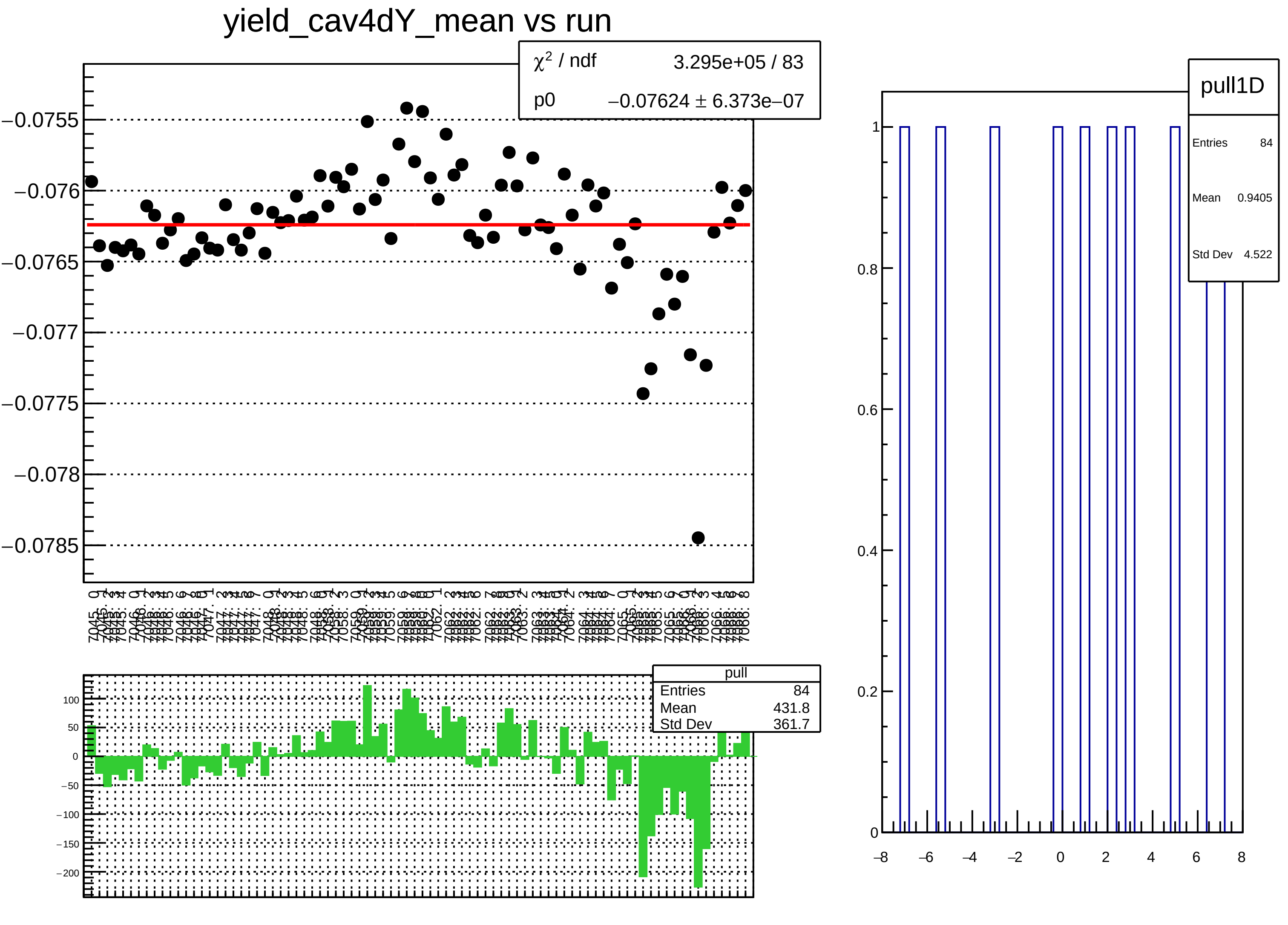
yield_cav4cY_rms vs run
$\chi^2$ / ndf 2.034e+04 / 83
p0 0.0009014 ± 7.184e−07
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007



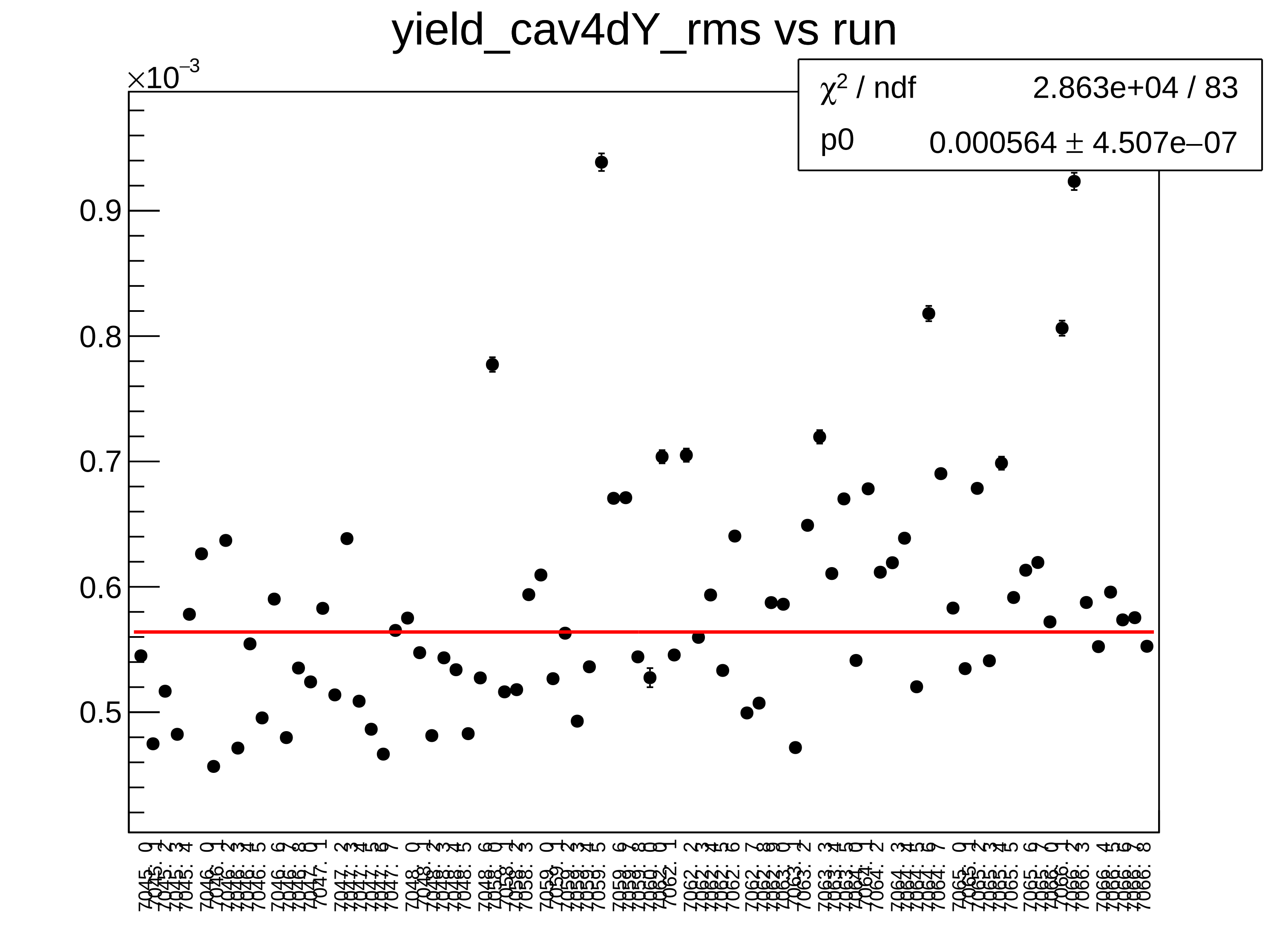
yield_cav4dX_mean vs run
χ2 / ndf 4.519e+05 / 83
p0 0.05655 ± 1.032e−05
pull
Entries 84
Mean 81.91
Std Dev 16.03
pull1D
Entries 84
Mean 7.08
Std Dev 0.5462



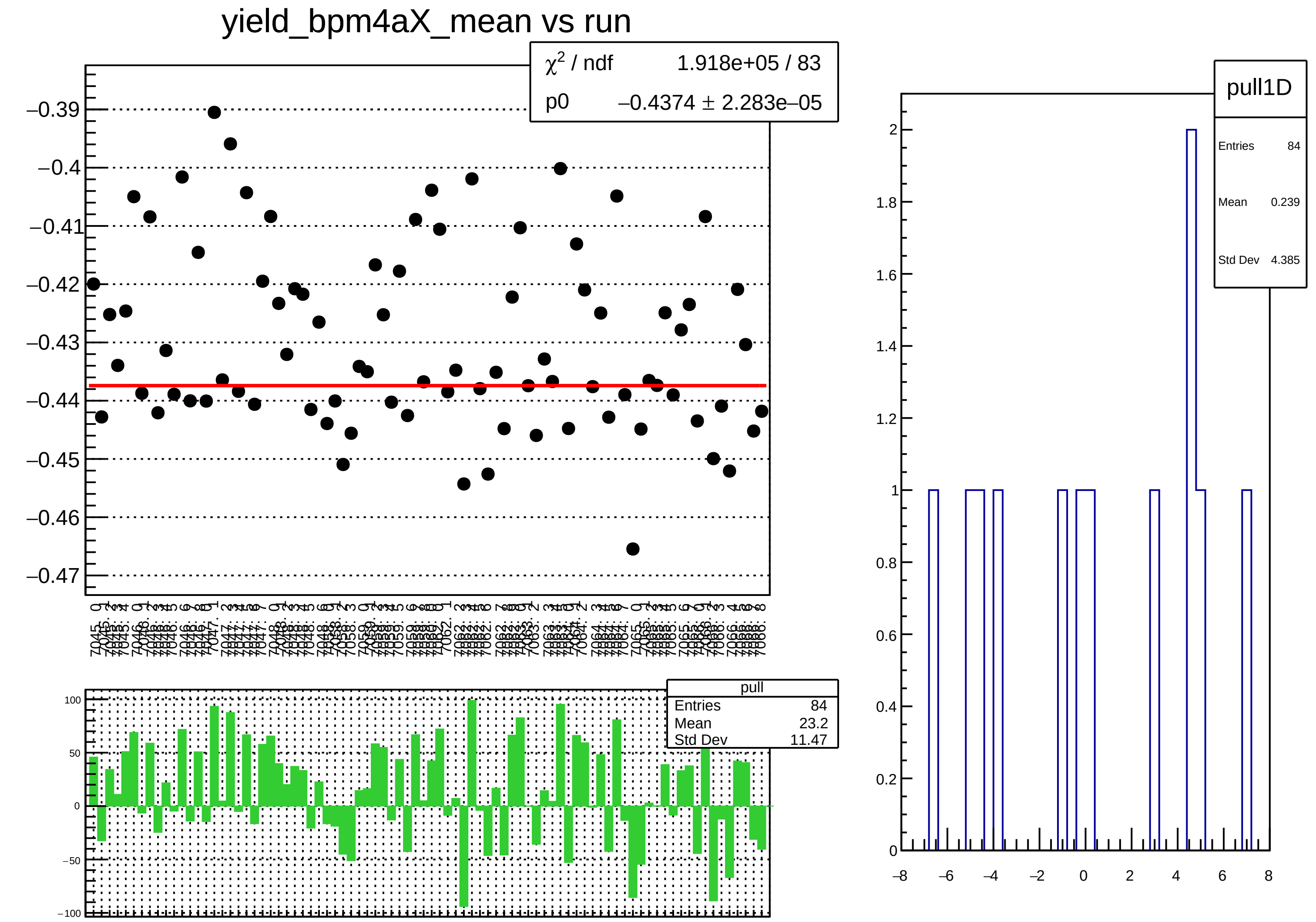
yield_cav4dX_rms vs run
$\chi^2$ / ndf 2.582e+05 / 83
p0 0.00844 ± 7.301e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004



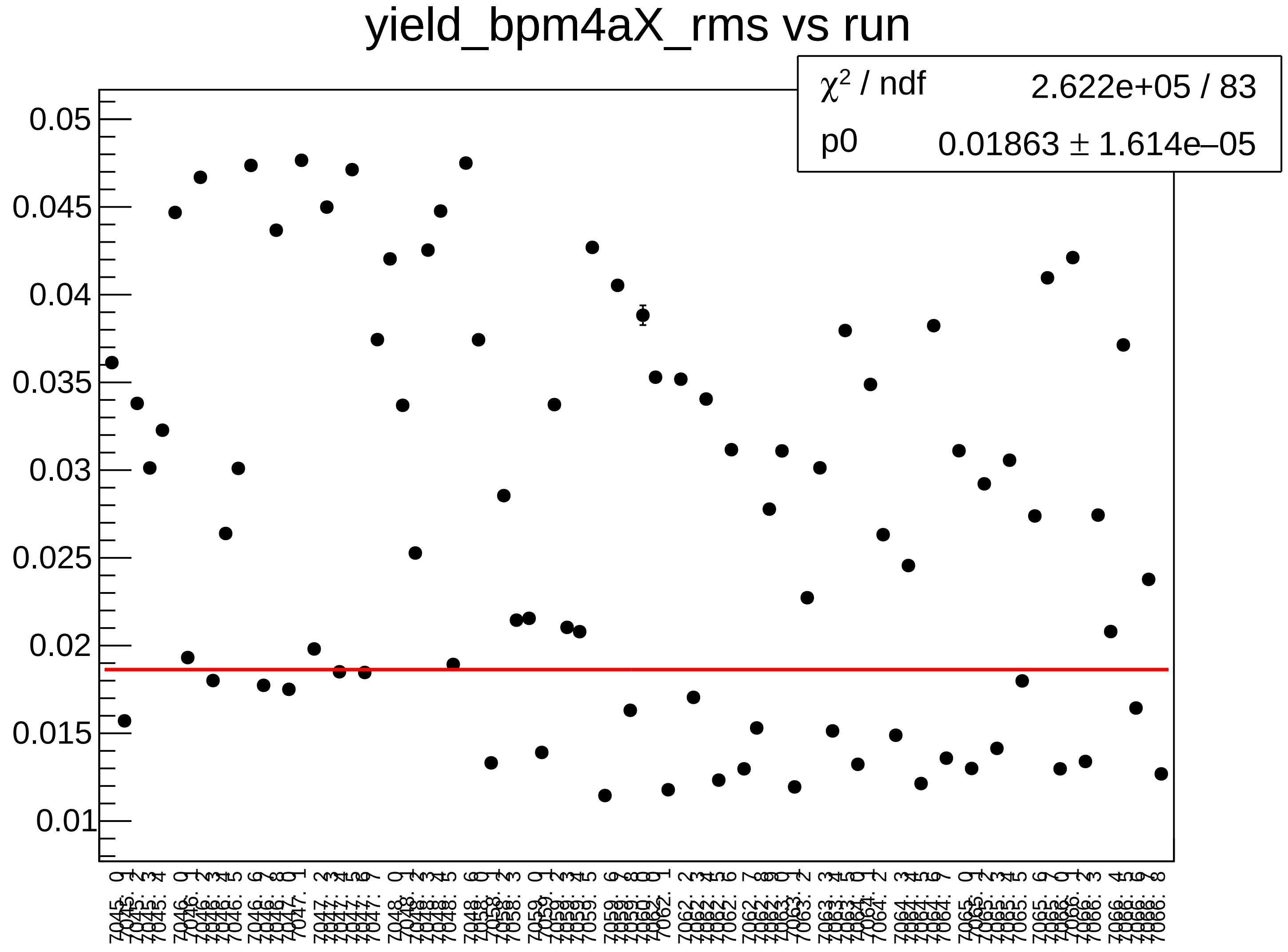
yield_cav4dY_mean vs run
χ2 / ndf 3.295e+05 / 83
p0 −0.07624 ± 6.373e−07
pull
Entries 84
Mean 431.8
Std Dev 361.7
pull1D
Entries 84
Mean 0.9405
Std Dev 4.522

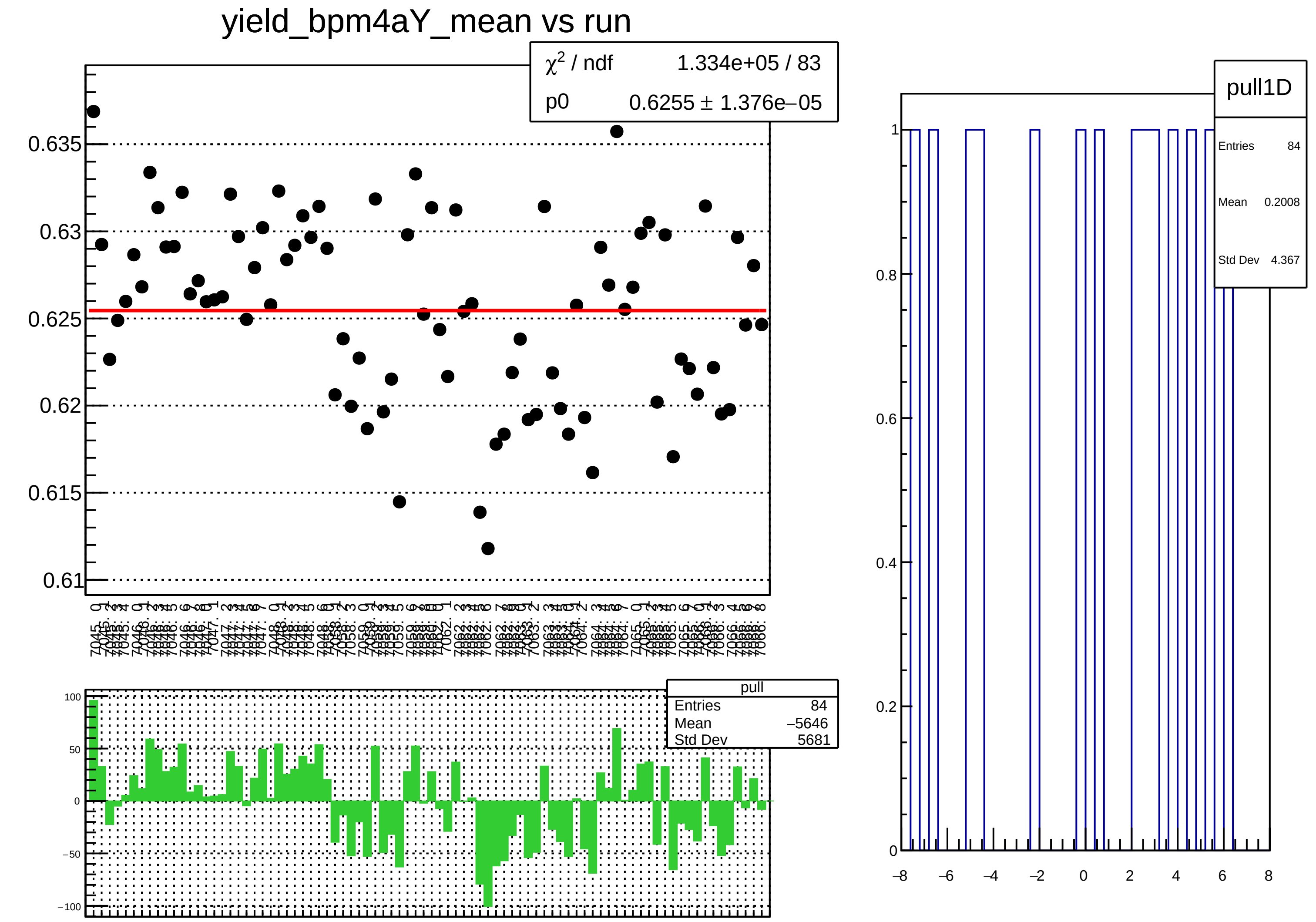


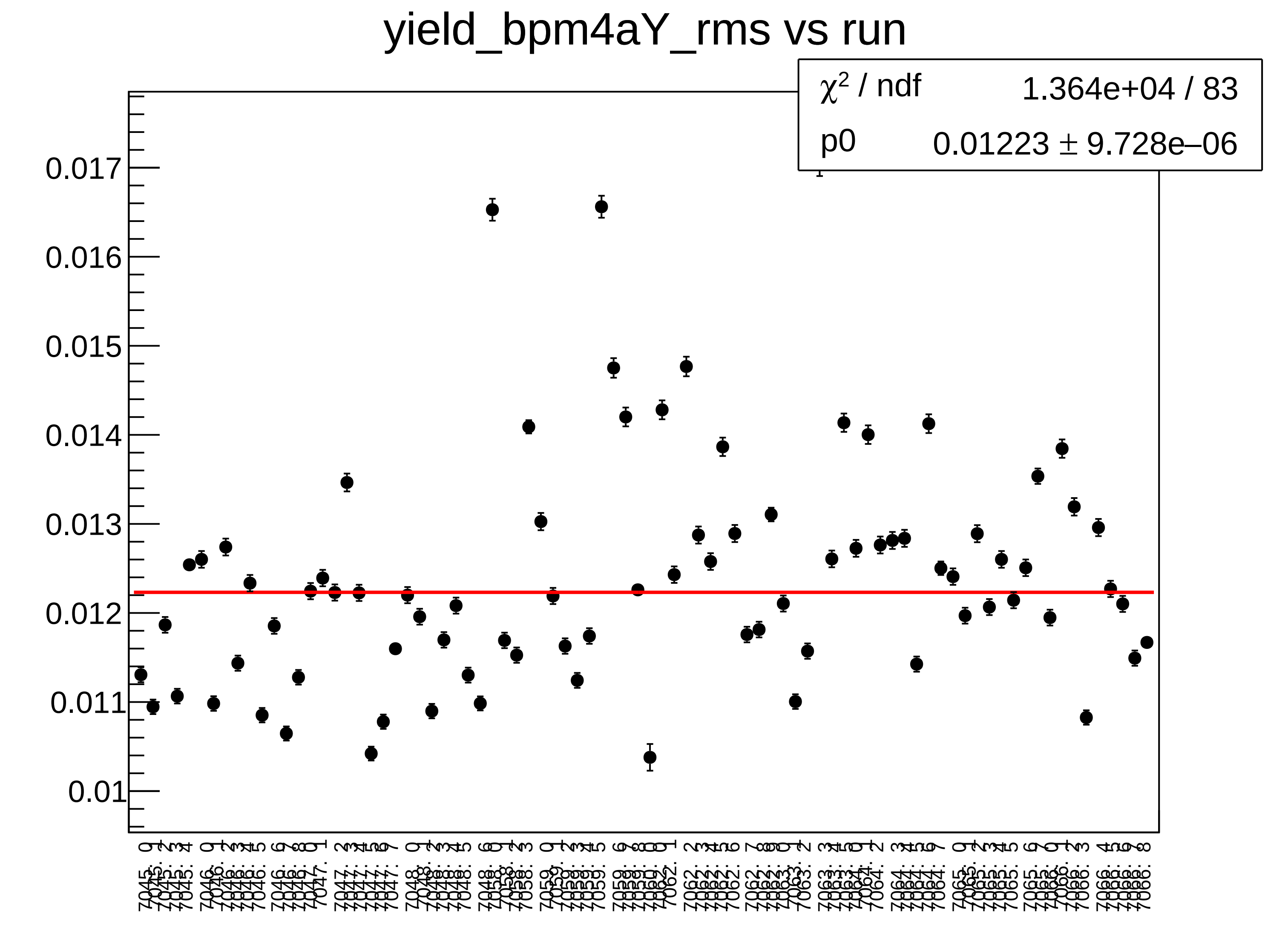
yield_cav4dY_rms vs run
×10^-3
χ2 / ndf 2.863e+04 / 83
p0 0.000564 ± 4.507e−07
0.9
0.8
0.7
0.6
0.5



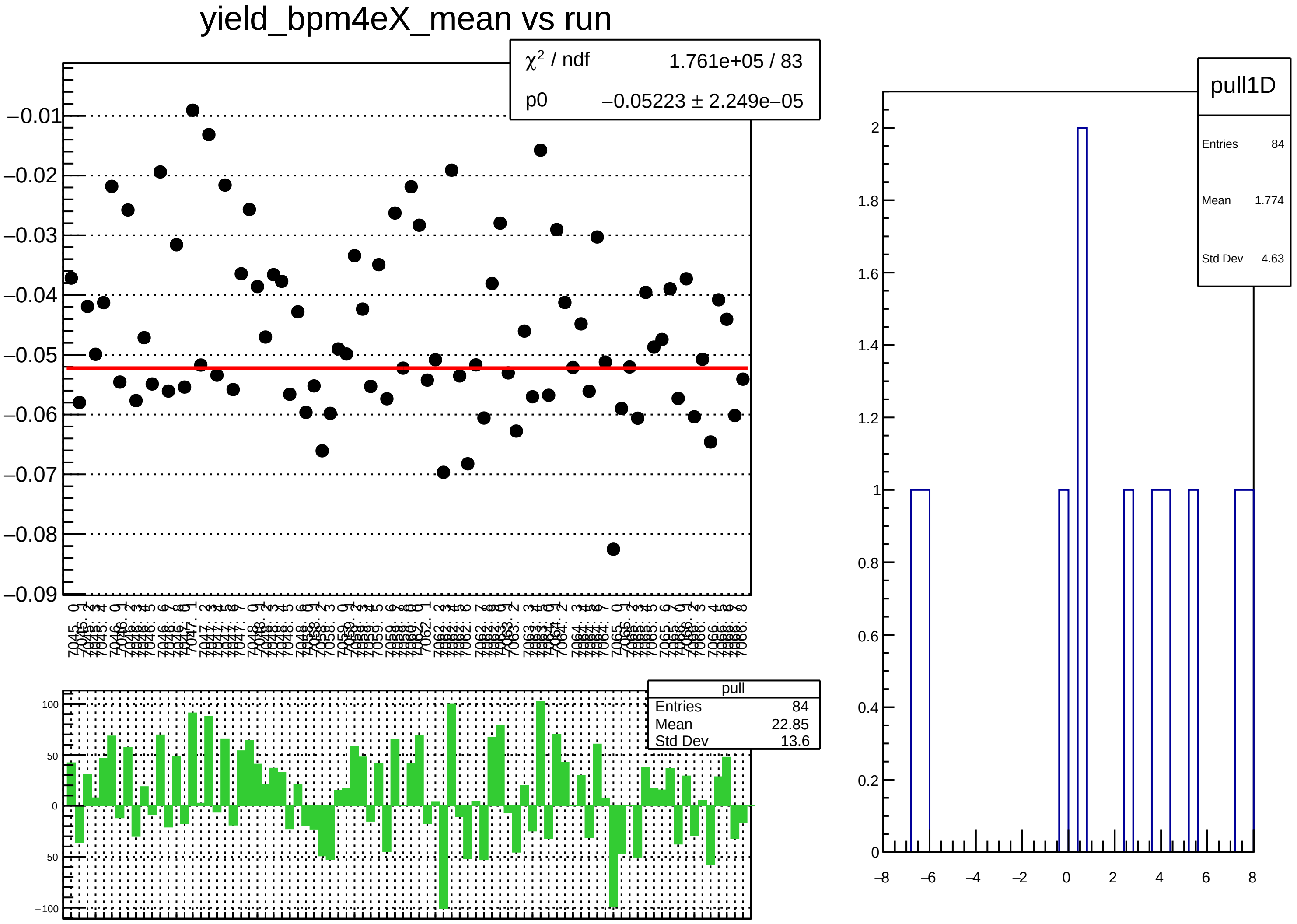
yield_bpm4aX_mean vs run
$\chi^2$ / ndf 1.918e+05 / 83
p0 −0.4374 ± 2.283e−05
pull
Entries 84
Mean 23.2
Std Dev 11.47
pull1D
Entries 84
Mean 0.239
Std Dev 4.385


yield_bpm4aX_rms vs run
χ2 / ndf 2.622e+05 / 83
p0 0.01863 ± 1.614e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

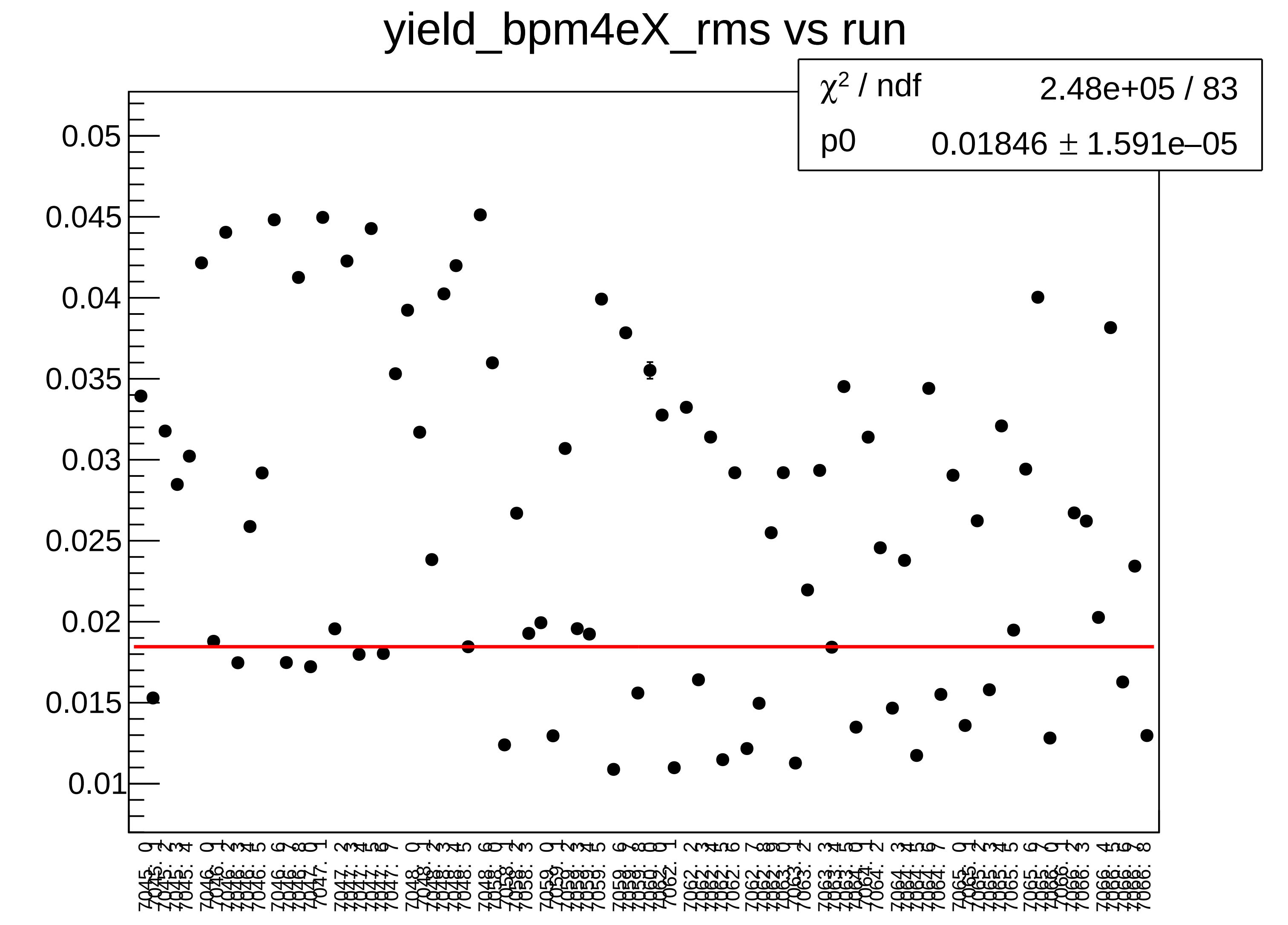

yield_bpm4aY_mean vs run
χ2 / ndf 1.334e+05 / 83
p0 0.6255 ± 1.376e−05
pull
Entries 84
Mean −5646
Std Dev 5681
pull1D
Entries 84
Mean 0.2008
Std Dev 4.367



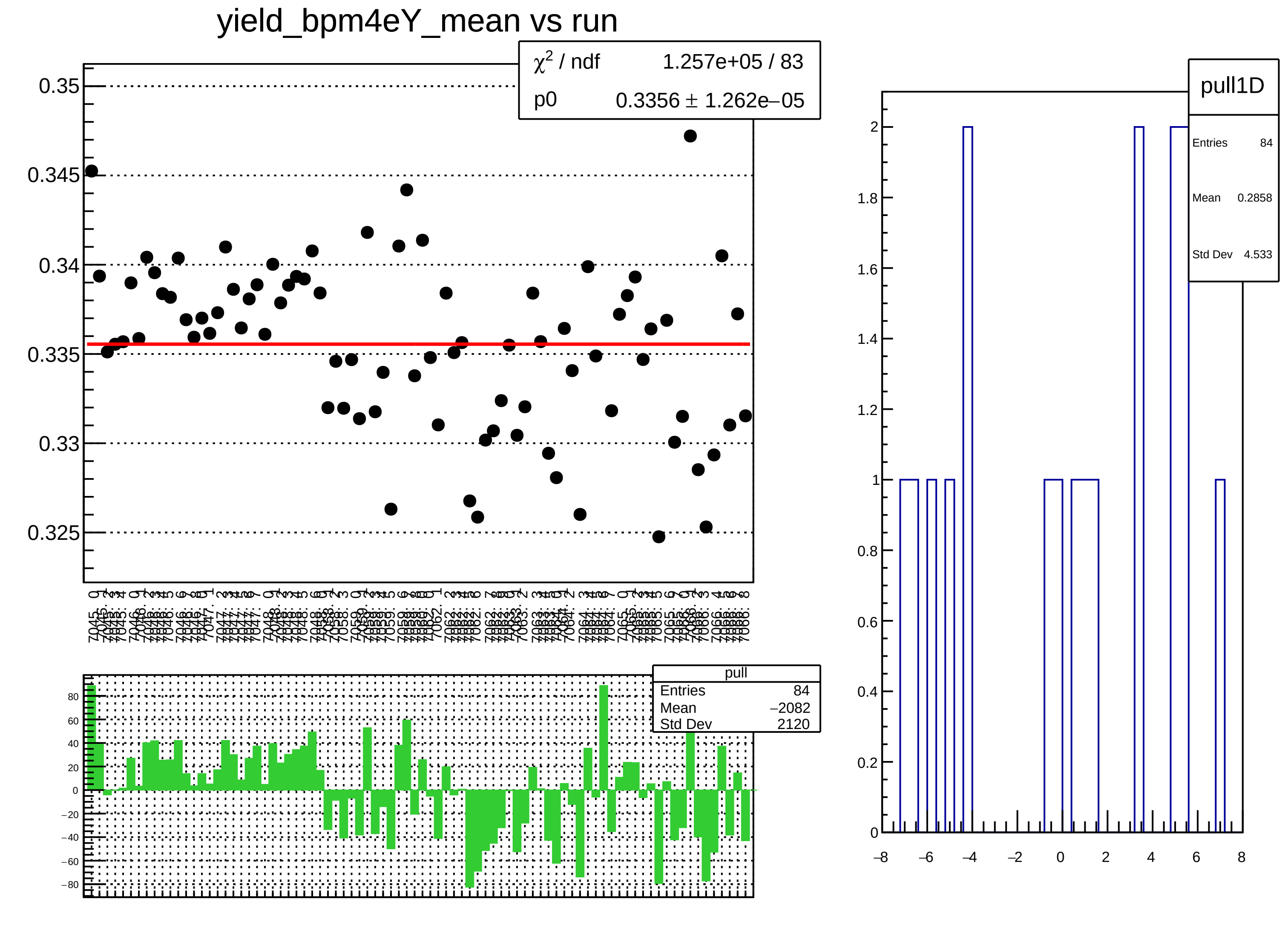
yield_bpm4aY_rms vs run
$\chi^2$ / ndf 1.364e+04 / 83
p0 0.01223 ± 9.728e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01



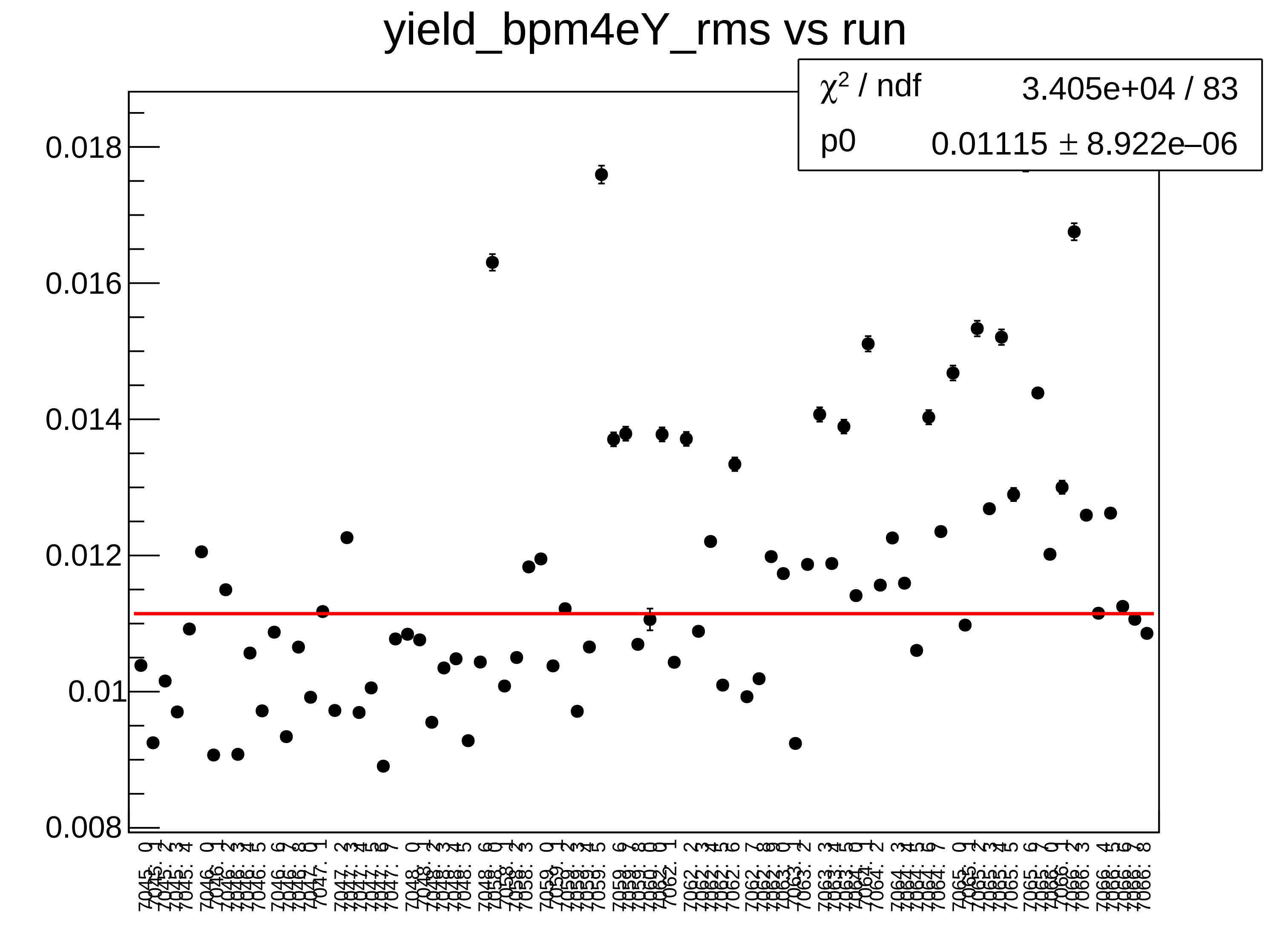
yield_bpm4eX_mean vs run
χ2 / ndf 1.761e+05 / 83
p0 −0.05223 ± 2.249e−05
pull
Entries 84
Mean 22.85
Std Dev 13.6
pull1D
Entries 84
Mean 1.774
Std Dev 4.63



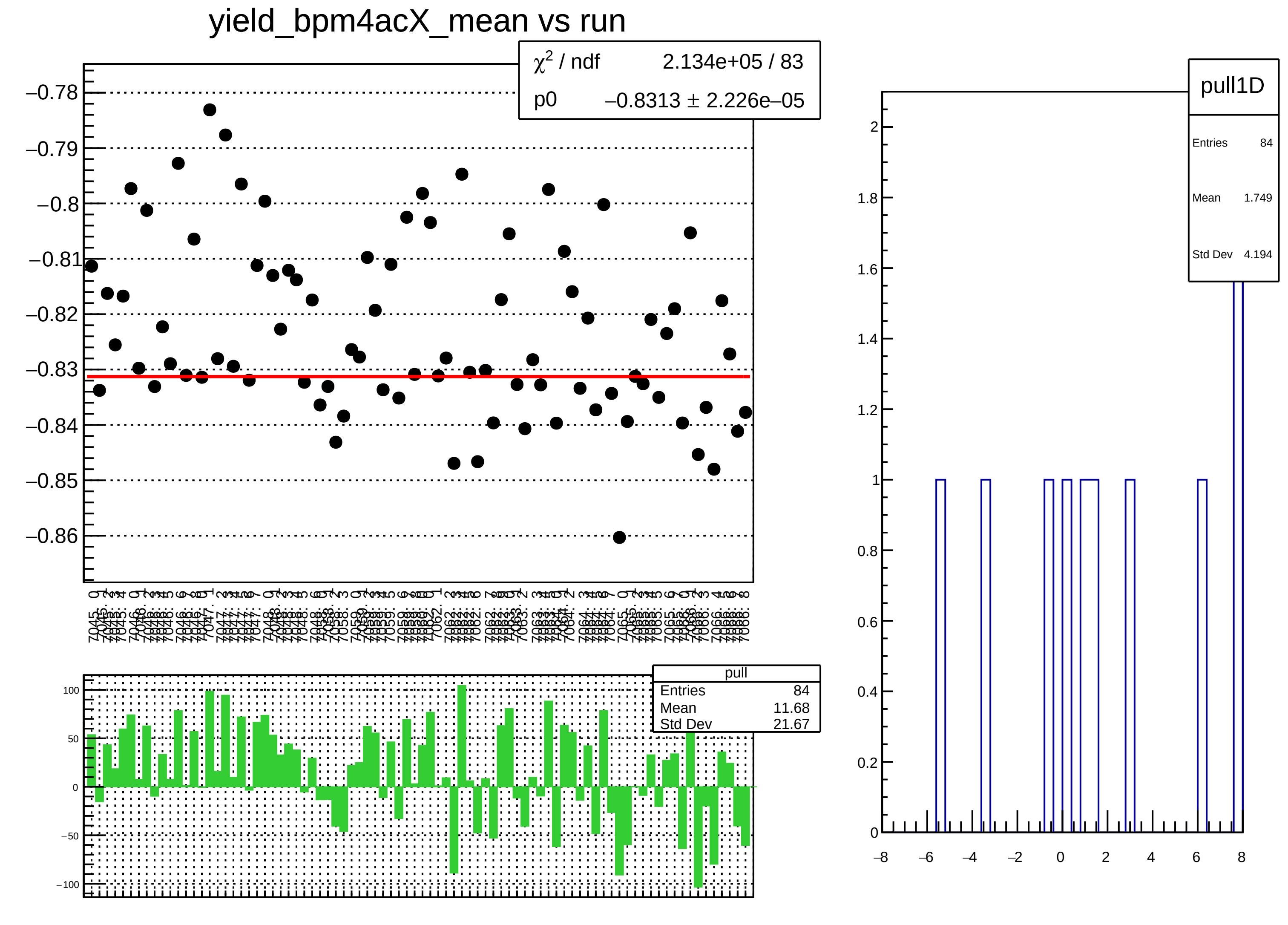
yield_bpm4eX_rms vs run
χ2 / ndf 2.48e+05 / 83
p0 0.01846 ± 1.591e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01



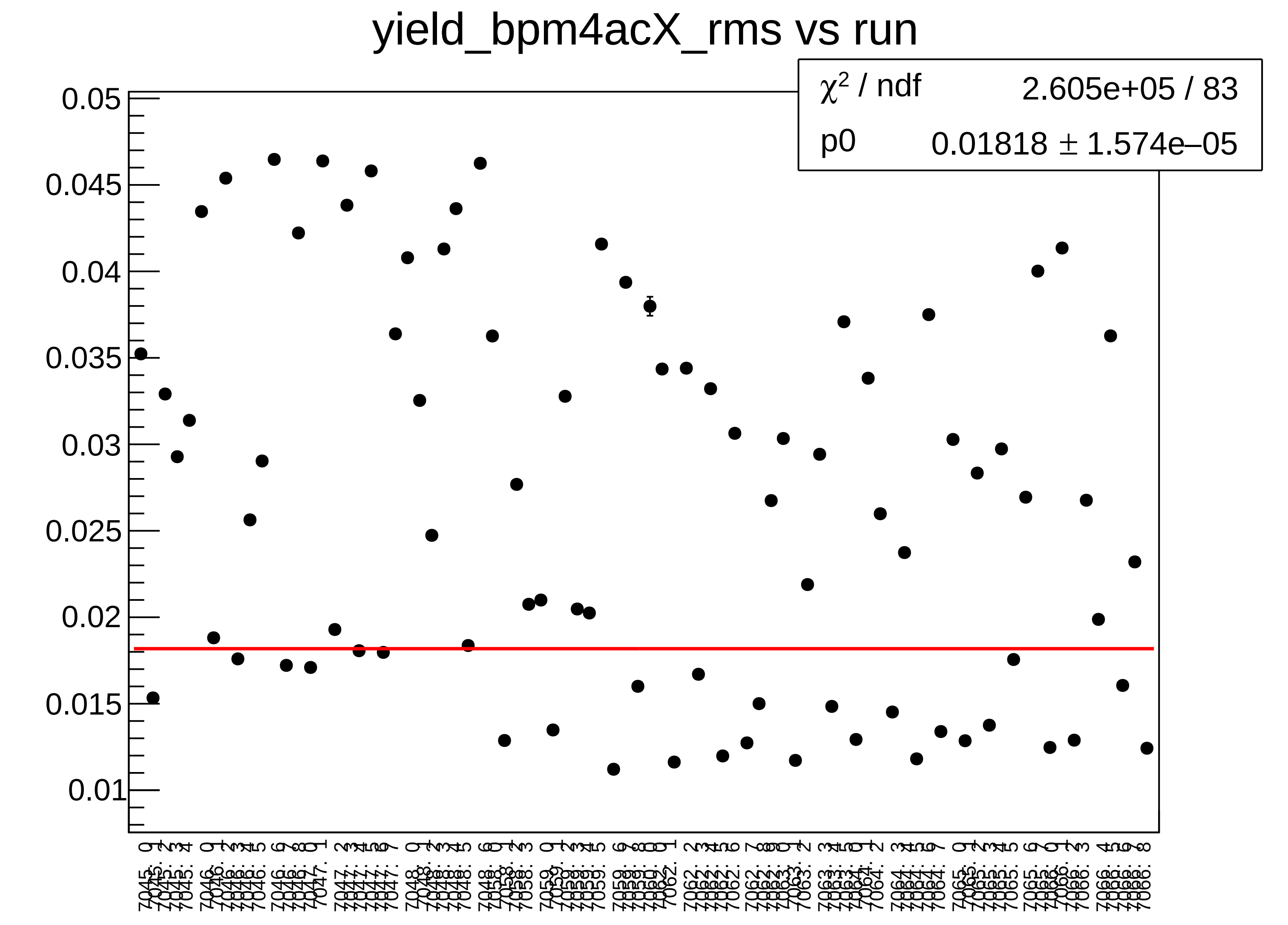
yield_bpm4eY_mean vs run
$\chi^2$ / ndf 1.257e+05 / 83
p0 0.3356 ± 1.262e−05
pull
Entries 84
Mean −2082
Std Dev 2120
pull1D
Entries 84
Mean 0.2858
Std Dev 4.533



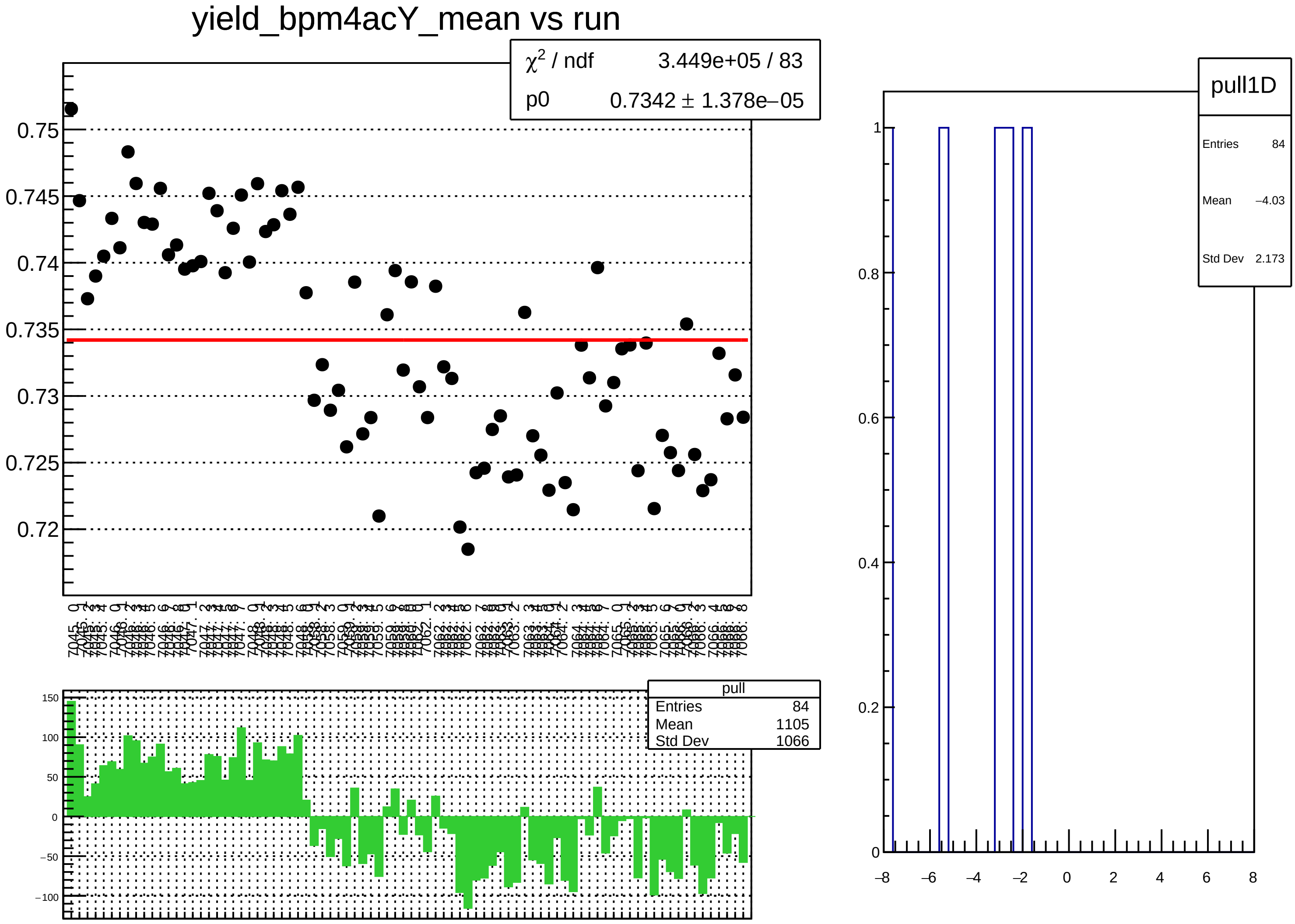
yield_bpm4eY_rms vs run
χ2 / ndf 3.405e+04 / 83
p0 0.01115 ± 8.922e−06
0.018
0.016
0.014
0.012
0.01
0.008



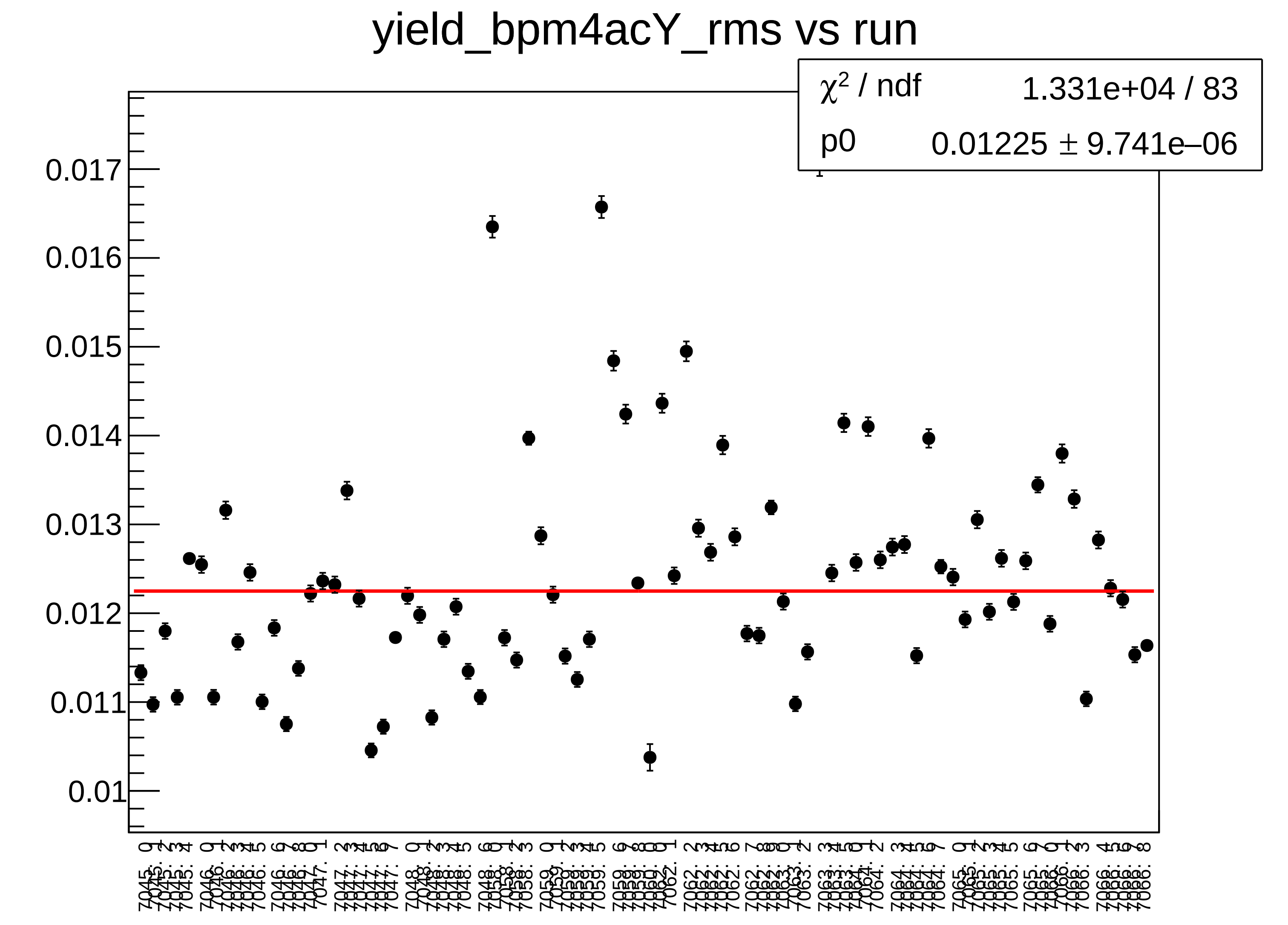
yield_bpm4acX_mean vs run
$\chi^2$ / ndf 2.134e+05 / 83
p0 −0.8313 ± 2.226e−05
pull
Entries 84
Mean 11.68
Std Dev 21.67
pull1D
Entries 84
Mean 1.749
Std Dev 4.194



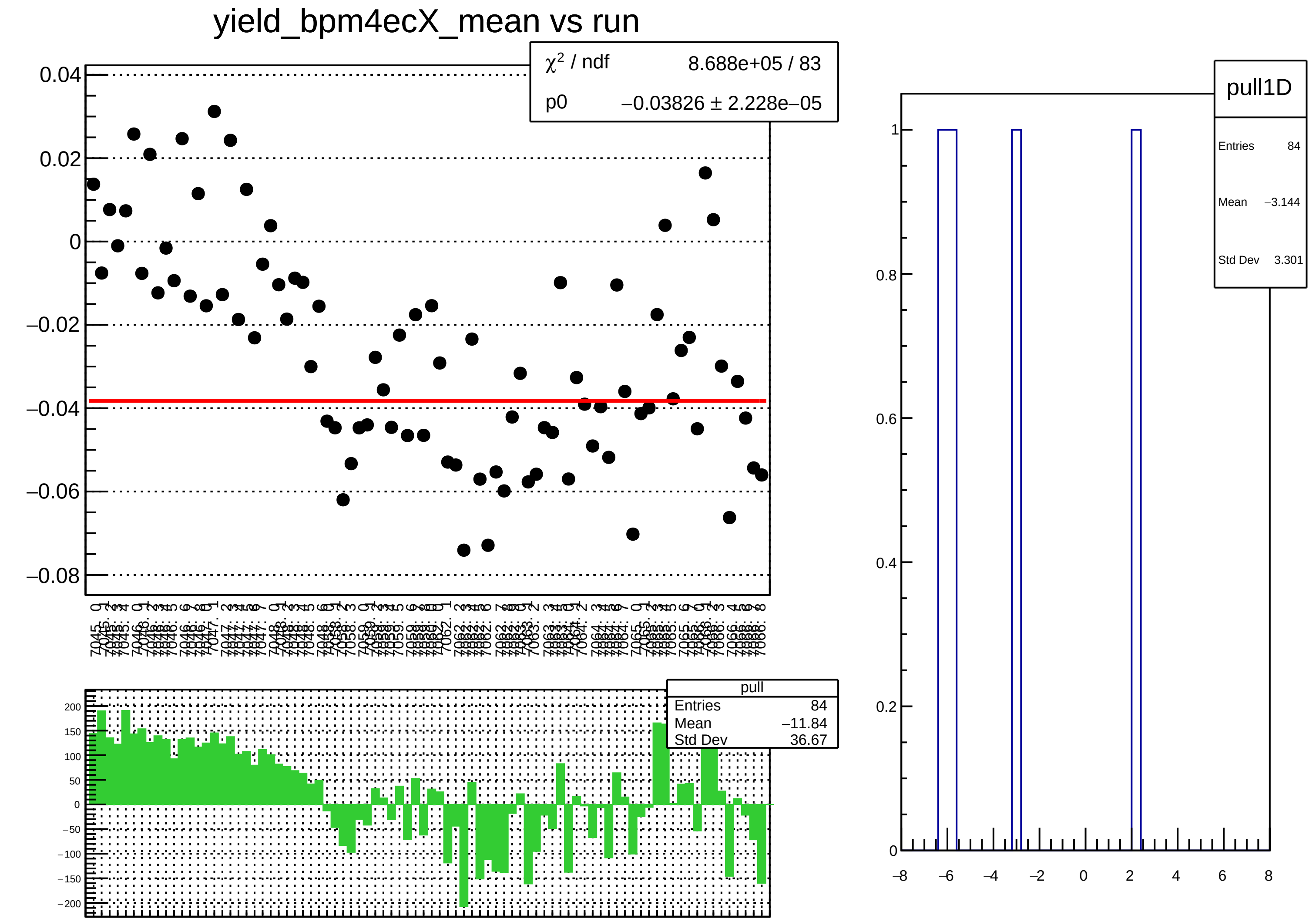
yield_bpm4acX_rms vs run
$\chi^2$ / ndf 2.605e+05 / 83
p0 0.01818 ± 1.574e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01



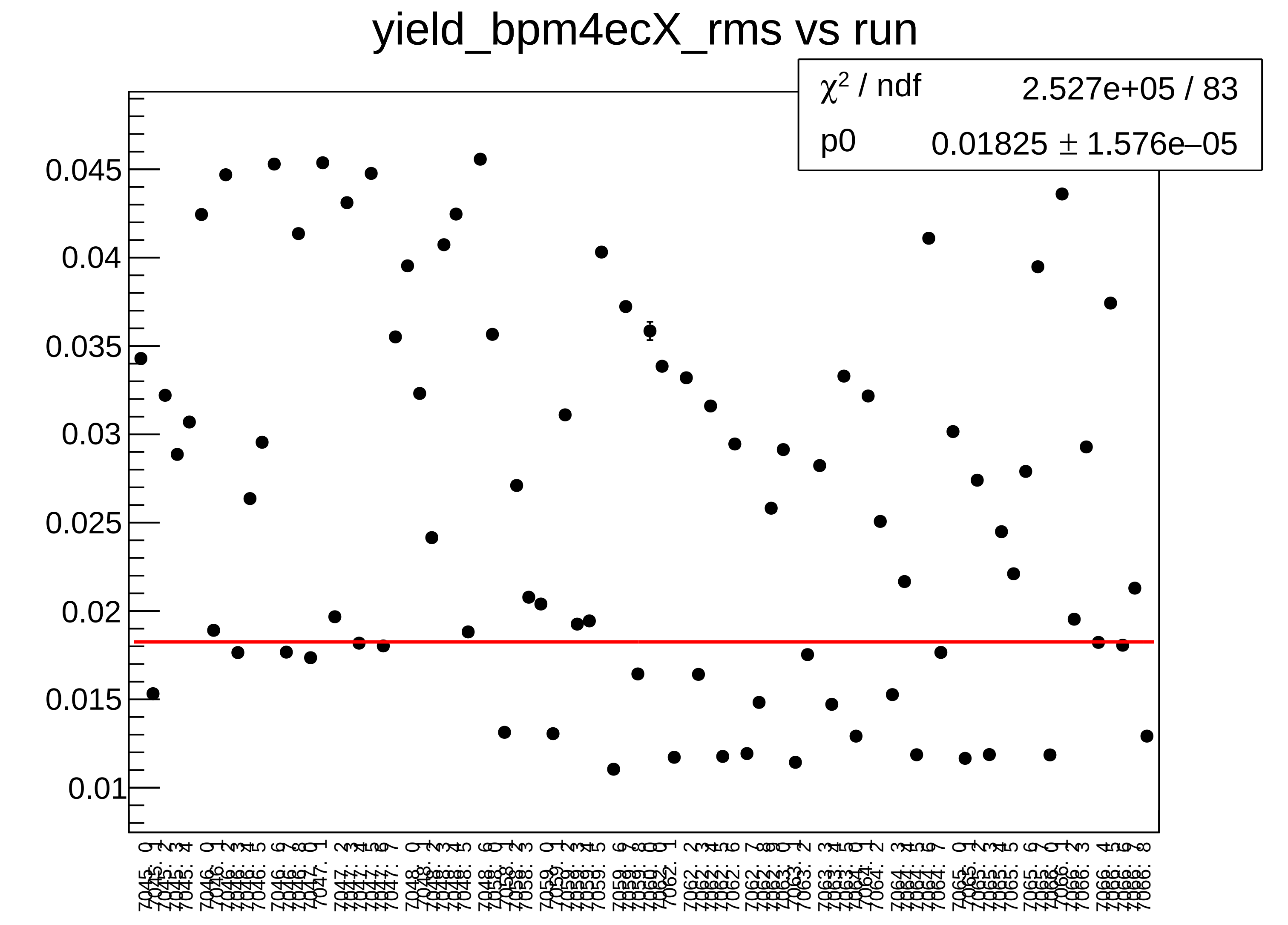
yield_bpm4acY_mean vs run
χ2 / ndf 3.449e+05 / 83
p0 0.7342 ± 1.378e−05
0.75
0.745
0.74
0.735
0.73
0.725
0.72
pull
Entries 84
Mean 1105
Std Dev 1066
150
100
50
0
−50
−100
pull1D
Entries 84
Mean −4.03
Std Dev 2.173
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



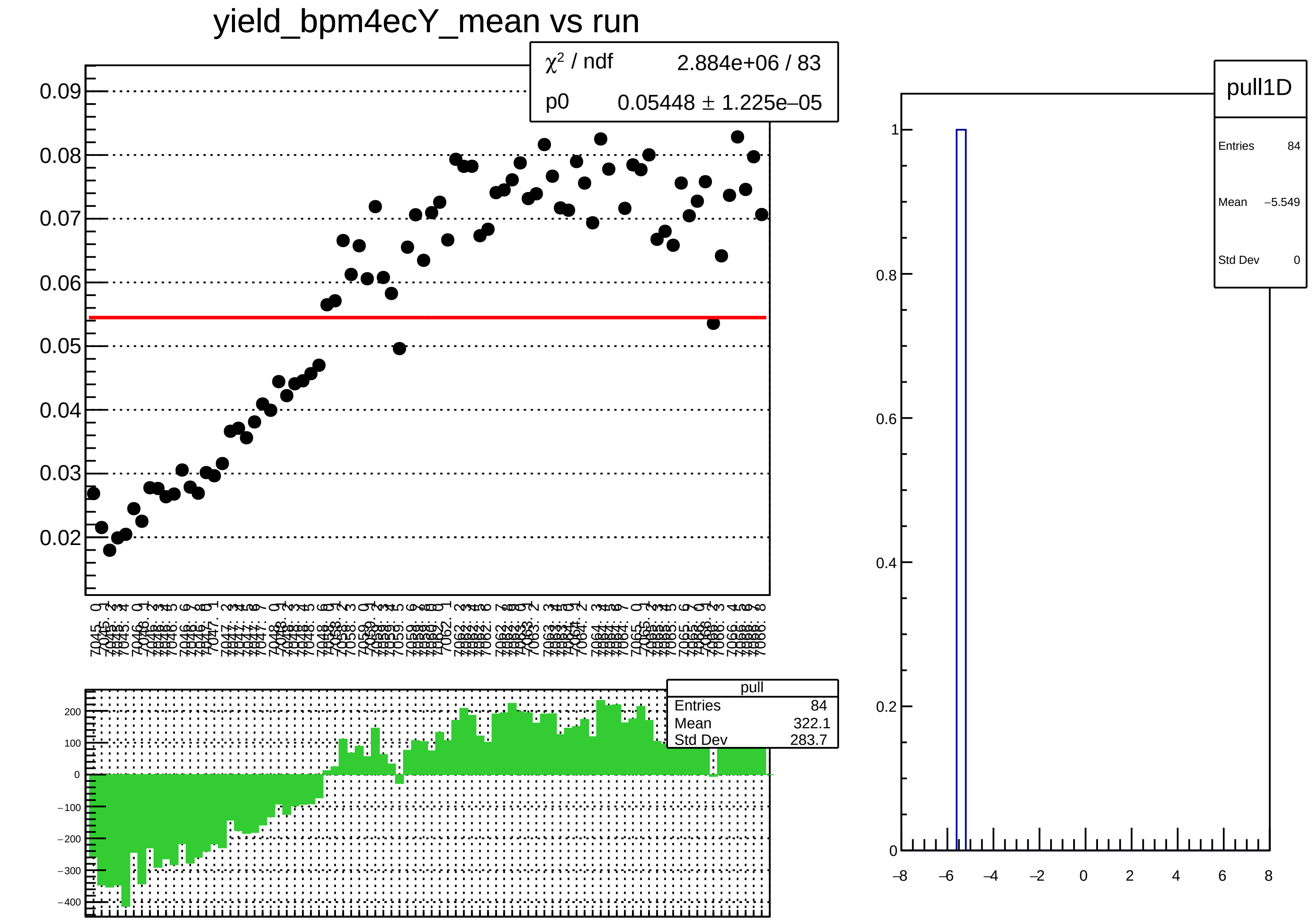
yield_bpm4acY_rms vs run
χ² / ndf 1.331e+04 / 83
p0 0.01225 ± 9.741e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01



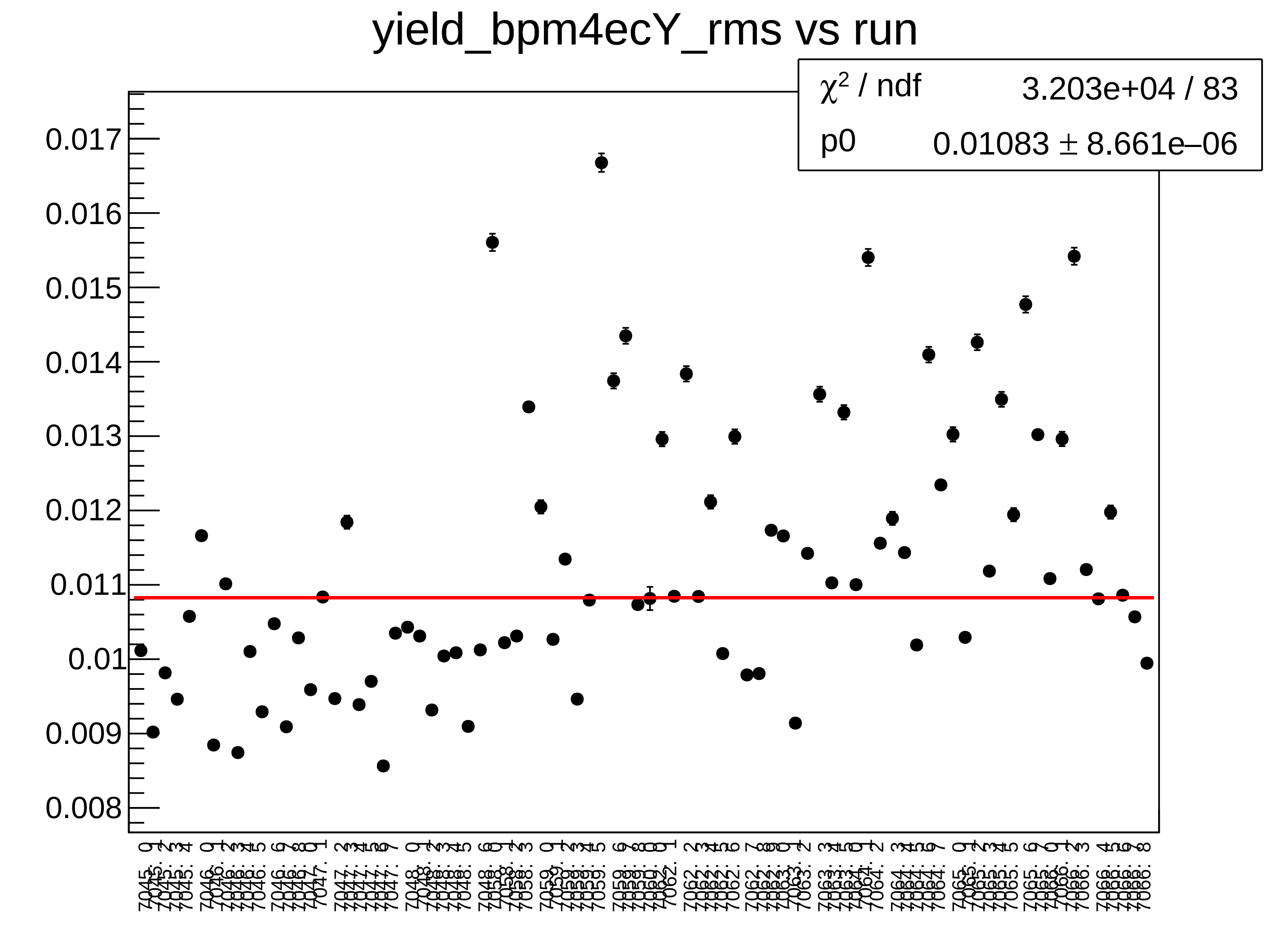
yield_bpm4ecX_mean vs run
$\chi^2$ / ndf 8.688e+05 / 83
p0 −0.03826 ± 2.228e−05
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 84
Mean −11.84
Std Dev 36.67
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 84
Mean −3.144
Std Dev 3.301
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

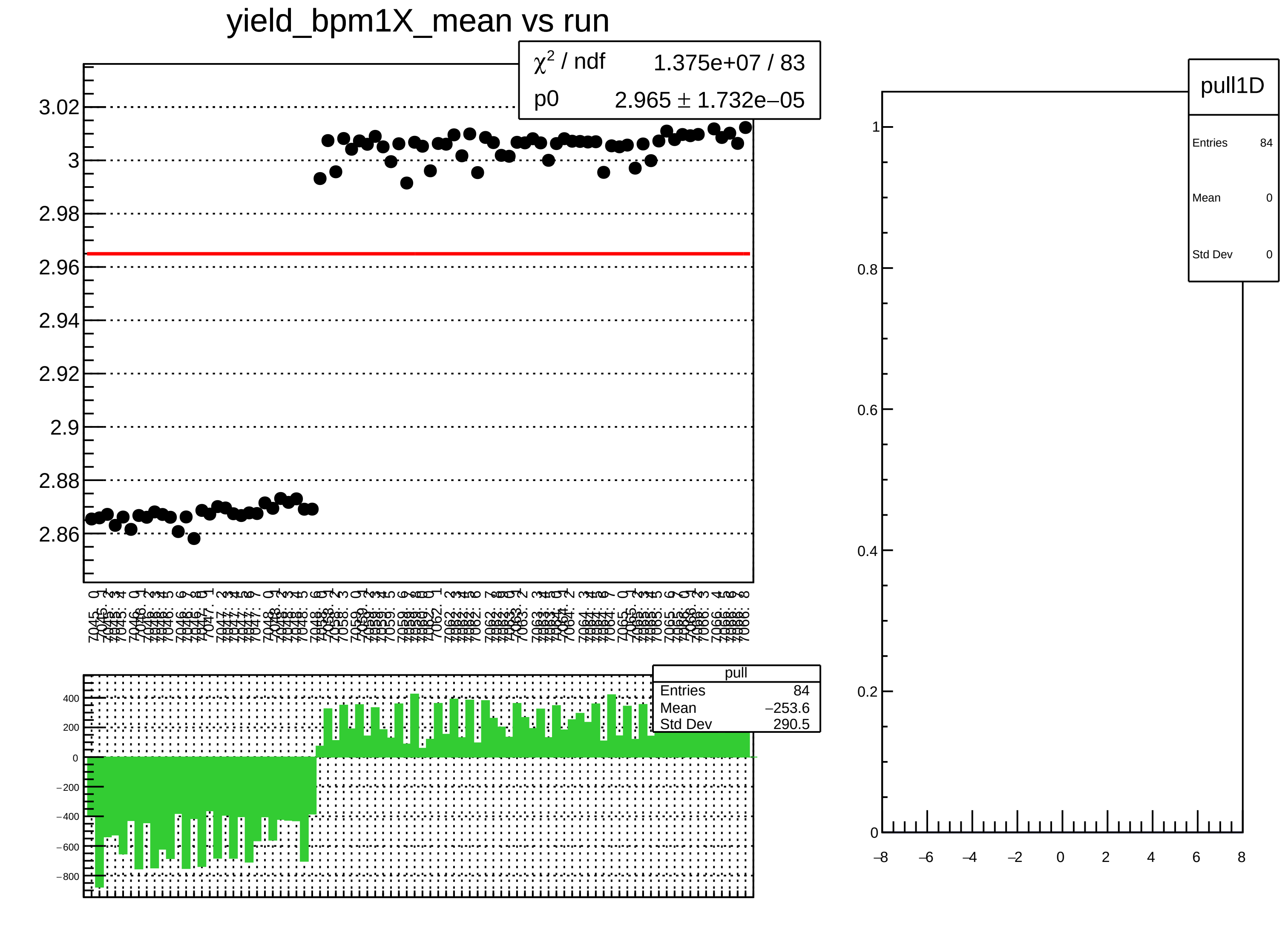


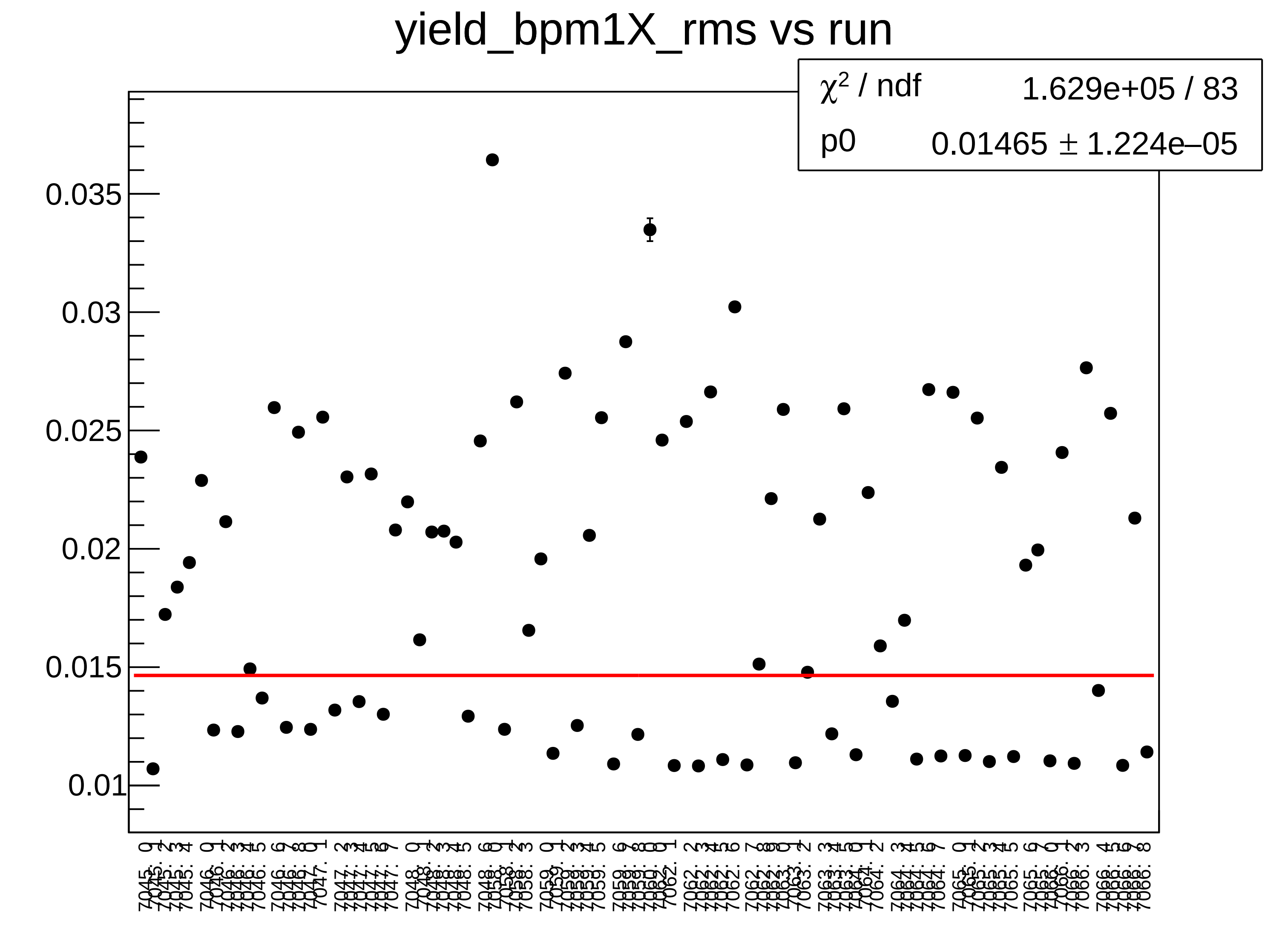
yield_bpm4ecX_rms vs run
$\chi^2$ / ndf 2.527e+05 / 83
p0 0.01825 ± 1.576e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01



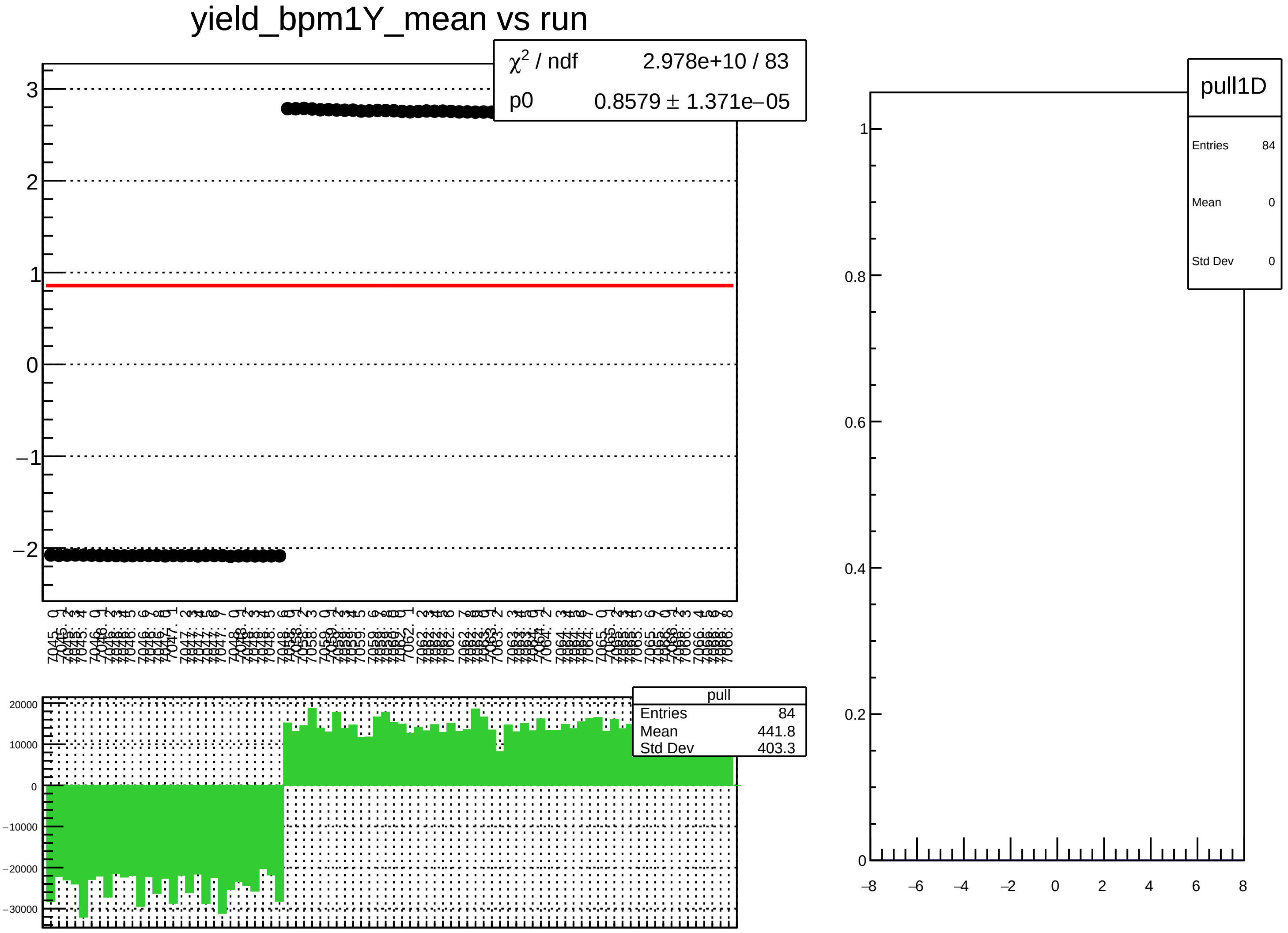
yield_bpm4ecY_mean vs run
χ2 / ndf 2.884e+06 / 83
p0 0.05448 ± 1.225e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 84
Mean 322.1
Std Dev 283.7
200
100
0
−100
−200
−300
−400
pull1D
Entries 84
Mean −5.549
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4ecY_rms vs run
$\chi^2$ / ndf 3.203e+04 / 83
p0 0.01083 ± 8.661e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

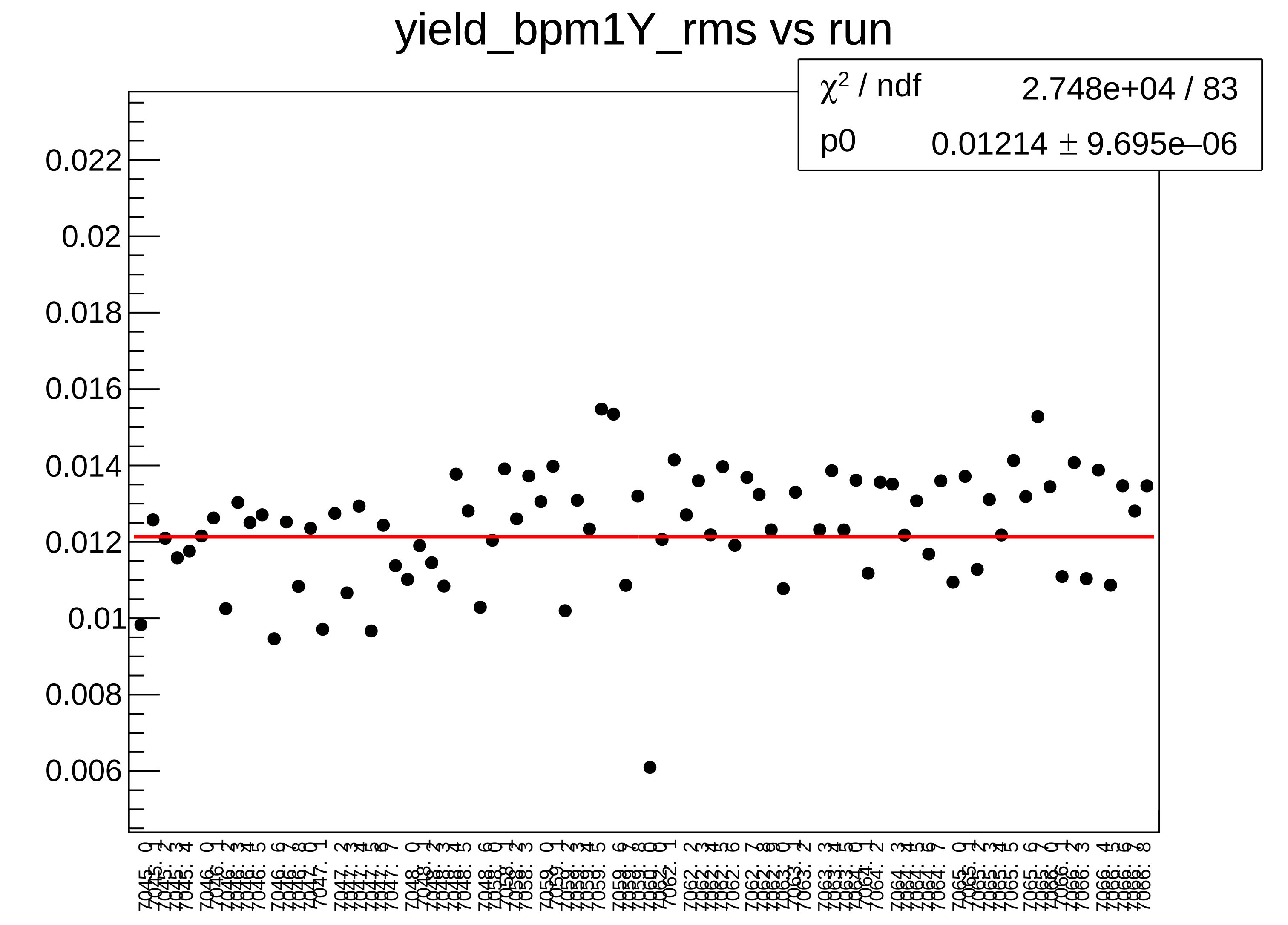

yield_bpm1X_mean vs run
χ2 / ndf 1.375e+07 / 83
p0 2.965 ± 1.732e−05
pull
Entries 84
Mean −253.6
Std Dev 290.5
pull1D
Entries 84
Mean 0
Std Dev 0



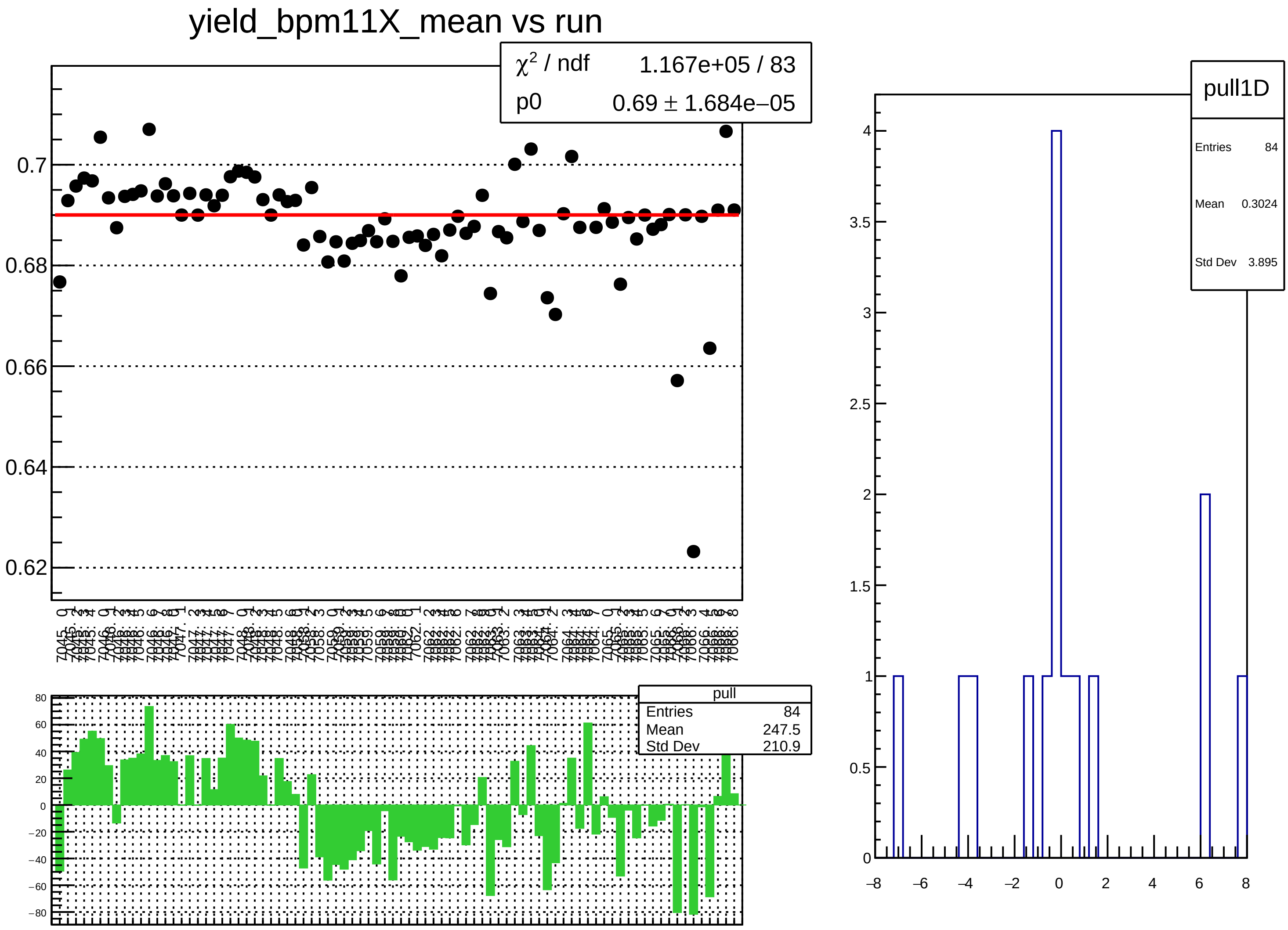
yield_bpm1X_rms vs run
$\chi^2$ / ndf 1.629e+05 / 83
p0 0.01465 ± 1.224e−05
0.035
0.03
0.025
0.02
0.015
0.01



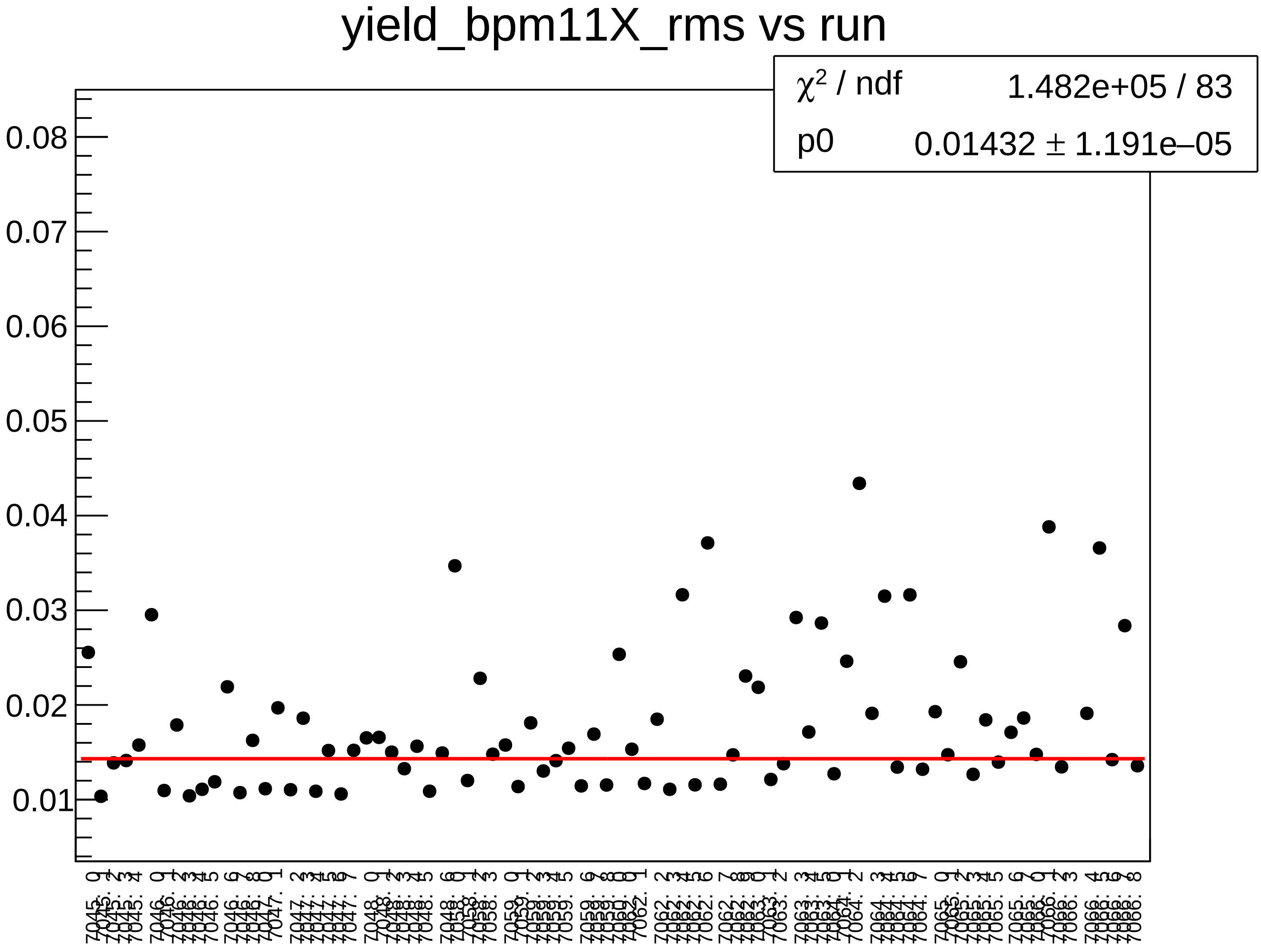
yield_bpm1Y_mean vs run
$\chi^2$ / ndf 2.978e+10 / 83
p0 0.8579 ± 1.371e−05
pull
Entries 84
Mean 441.8
Std Dev 403.3
pull1D
Entries 84
Mean 0
Std Dev 0

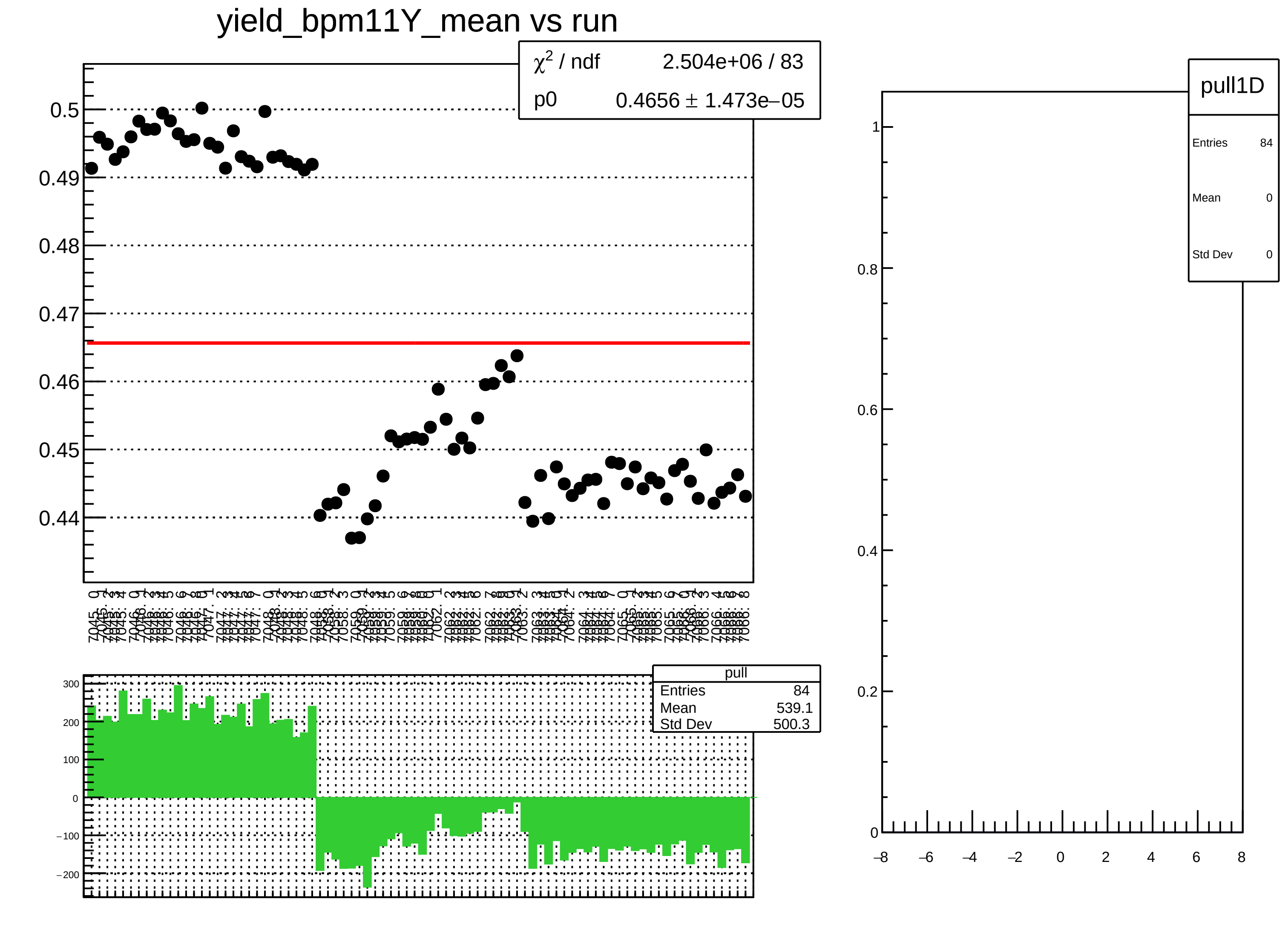


yield_bpm1Y_rms vs run
$\chi^2$ / ndf 2.748e+04 / 83
p0 0.01214 ± 9.695e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

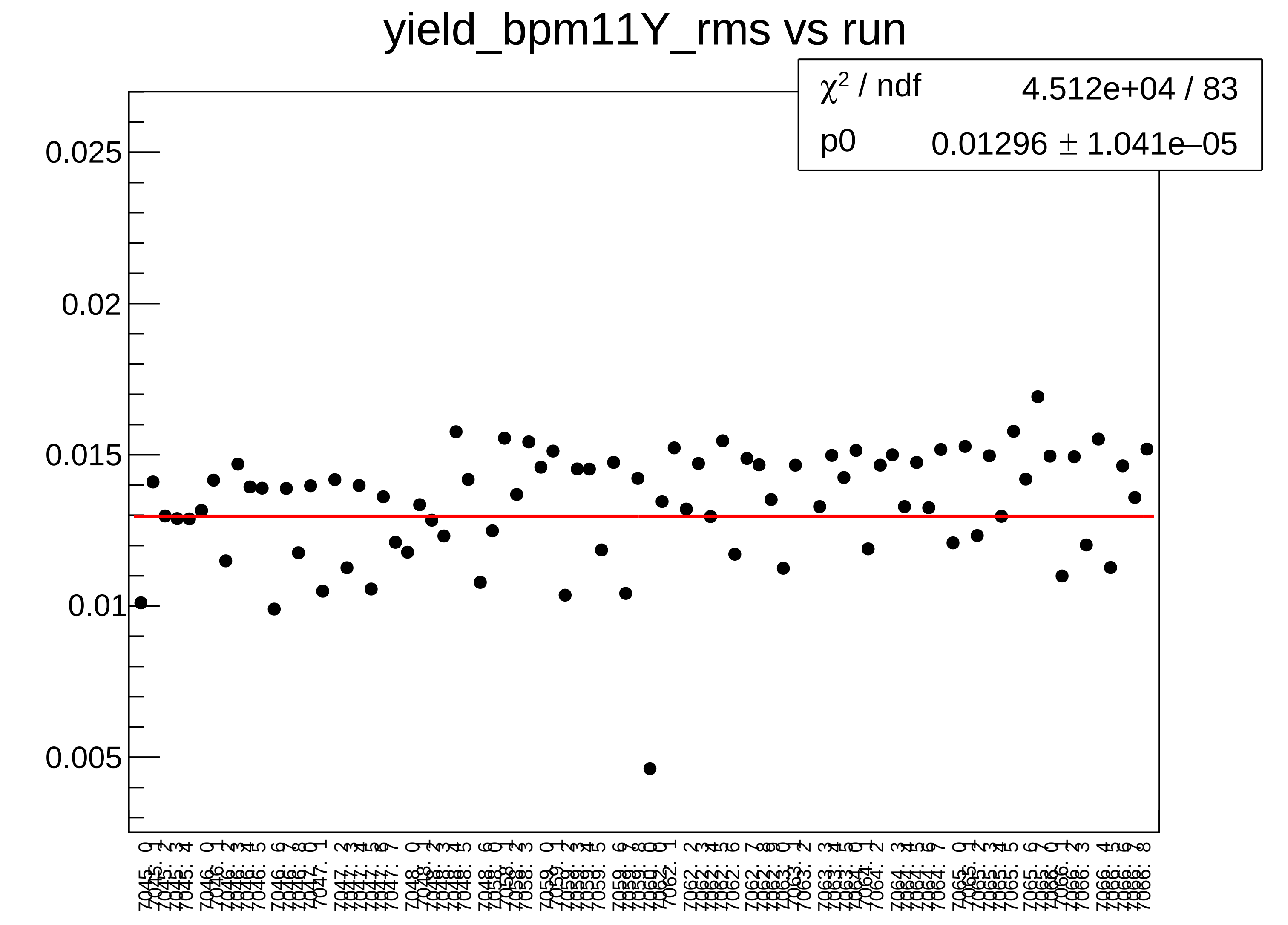


yield_bpm11X_mean vs run
$\chi^2$ / ndf 1.167e+05 / 83
p0 0.69 ± 1.684e−05
pull
Entries 84
Mean 247.5
Std Dev 210.9
pull1D
Entries 84
Mean 0.3024
Std Dev 3.895

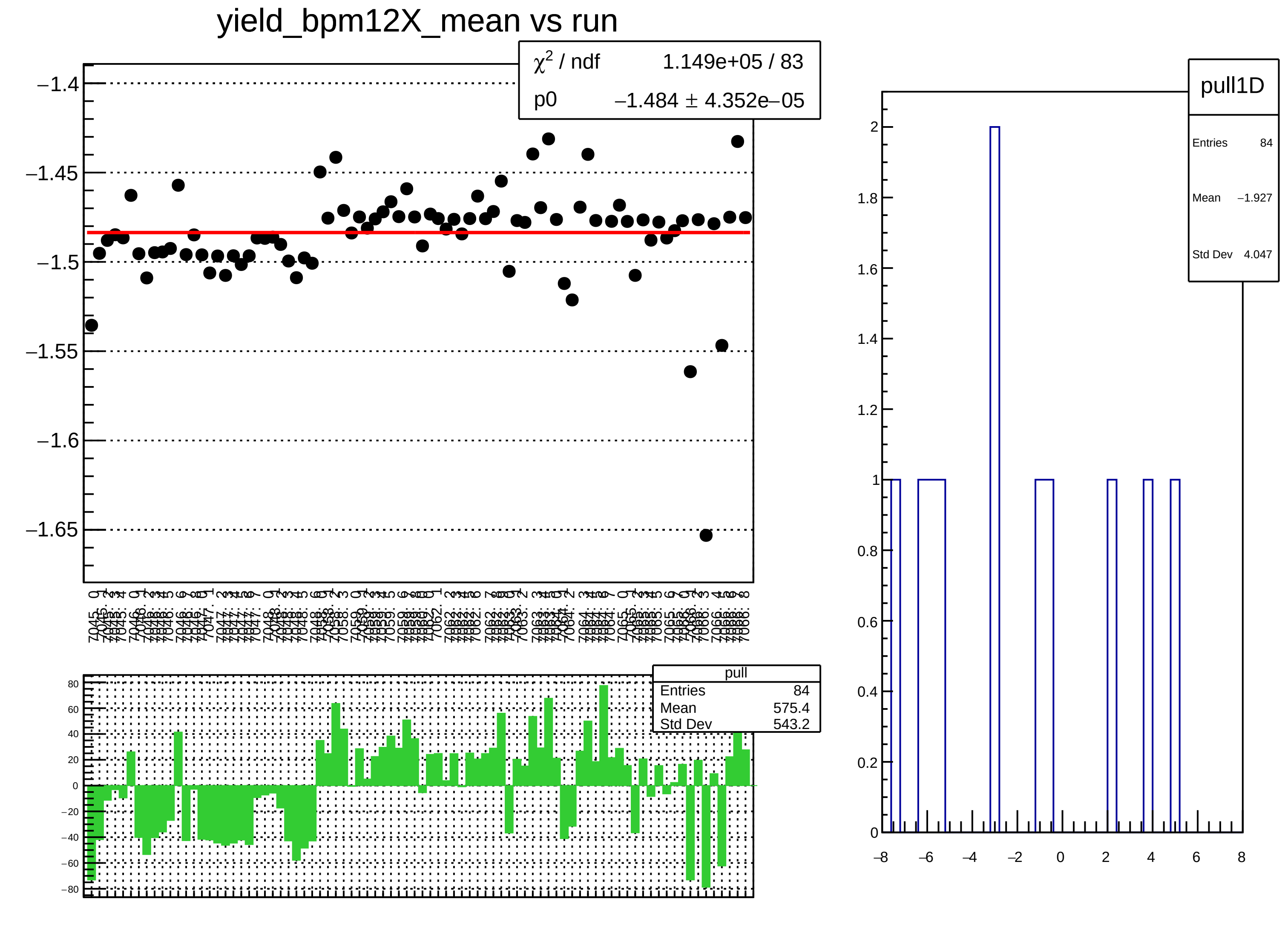

yield_bpm11X_rms vs run
χ² / ndf 1.482e+05 / 83
p0 0.01432 ± 1.191e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01



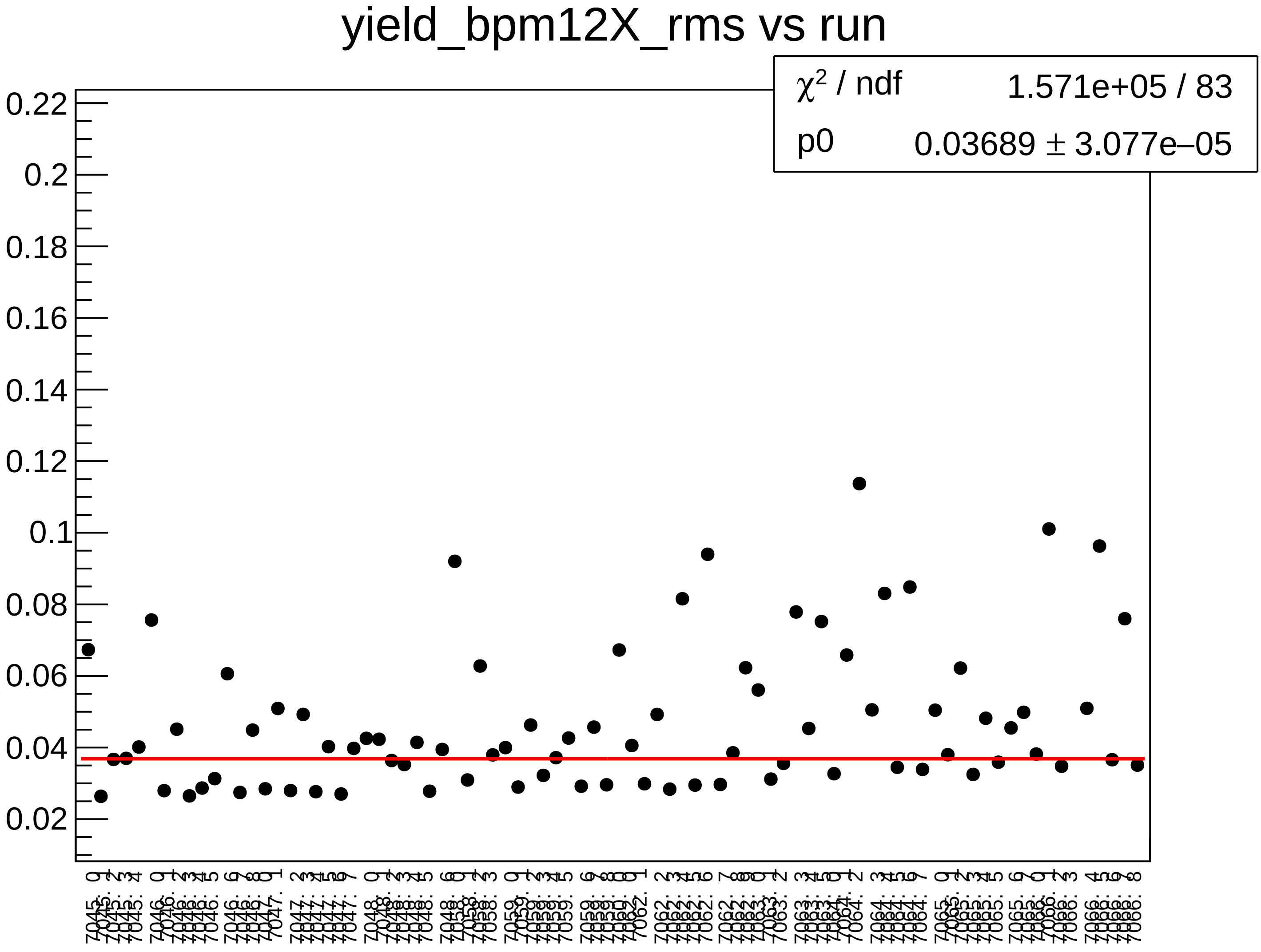
yield_bpm11Y_mean vs run
$\chi^2$ / ndf 2.504e+06 / 83
p0 0.4656 ± 1.473e−05
pull
Entries 84
Mean 539.1
Std Dev 500.3
pull1D
Entries 84
Mean 0
Std Dev 0

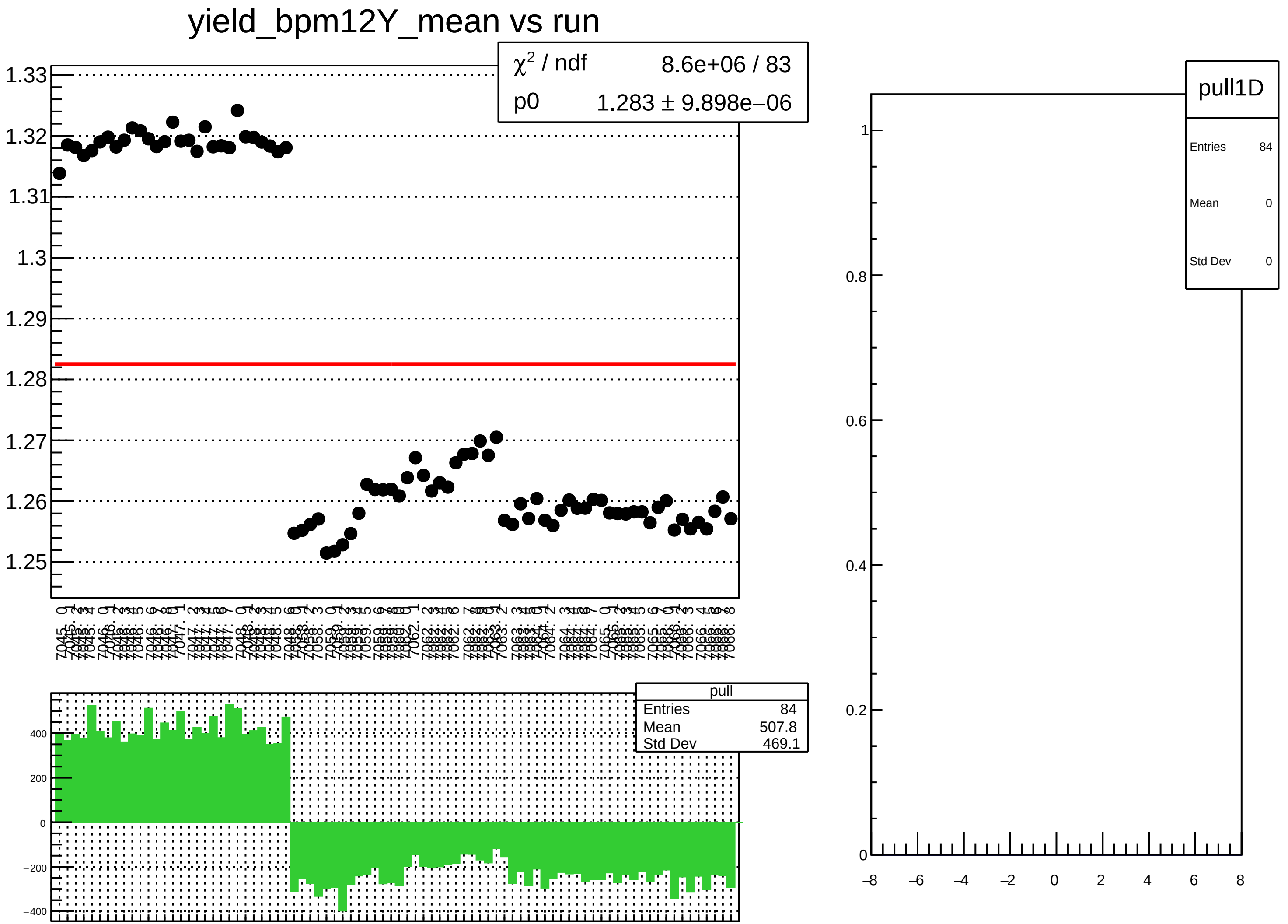


yield_bpm11Y_rms vs run
χ2 / ndf 4.512e+04 / 83
p0 0.01296 ± 1.041e–05
0.025
0.02
0.015
0.01
0.005

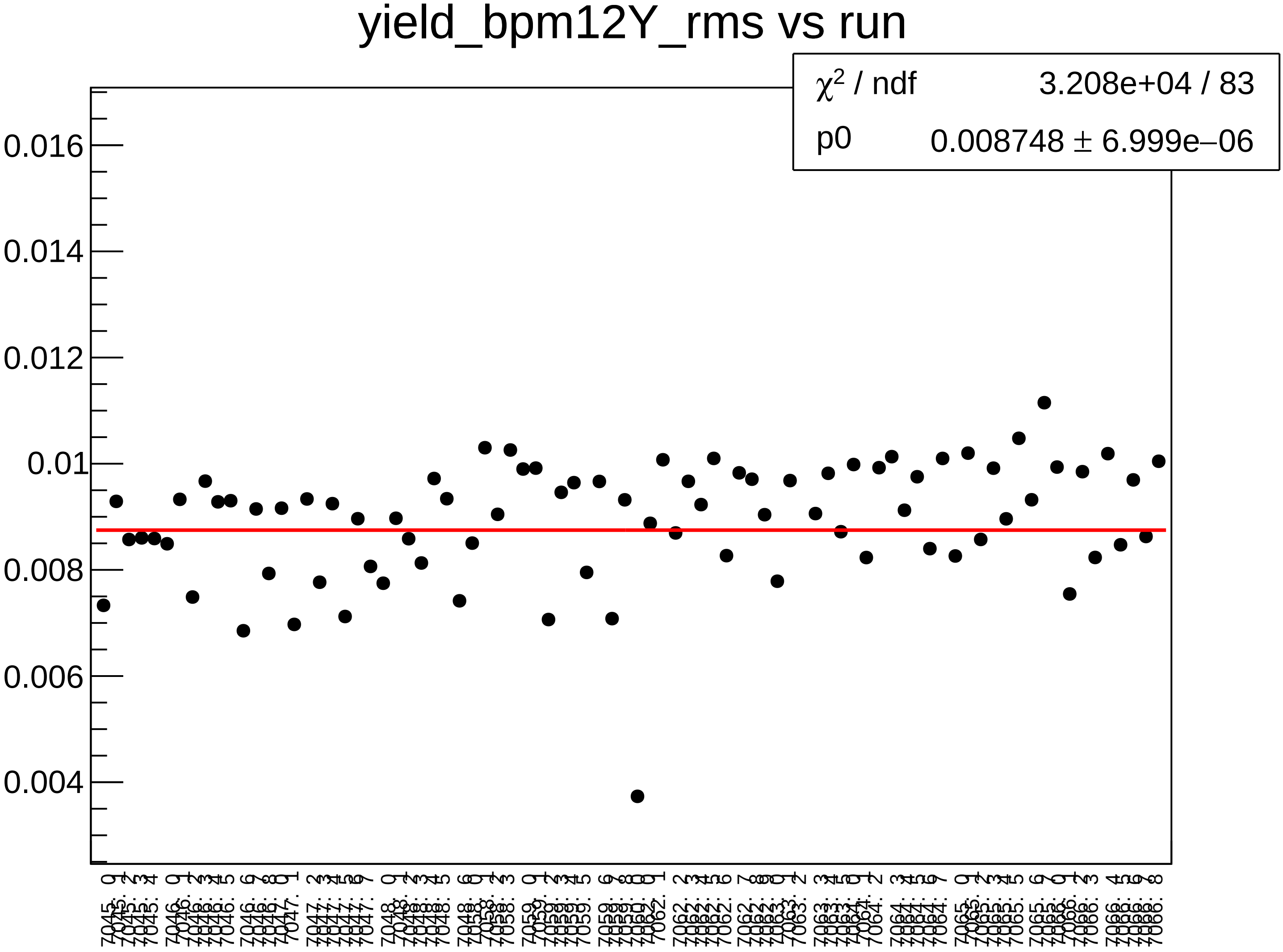


yield_bpm12X_mean vs run
$\chi^2$ / ndf 1.149e+05 / 83
p0 −1.484 ± 4.352e−05
pull
Entries 84
Mean 575.4
Std Dev 543.2
pull1D
Entries 84
Mean −1.927
Std Dev 4.047

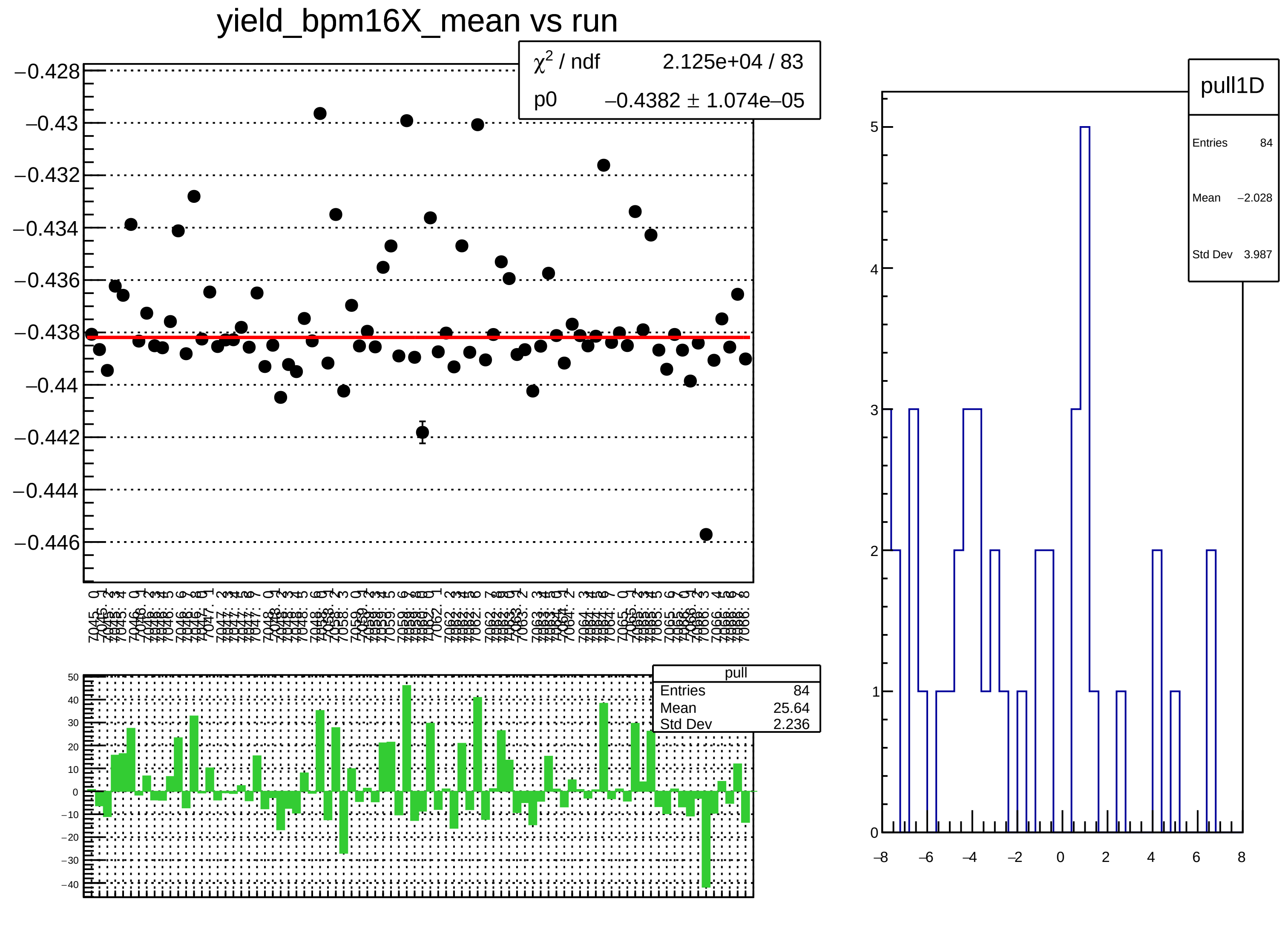

yield_bpm12X_rms vs run
χ2 / ndf 1.571e+05 / 83
p0 0.03689 ± 3.077e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02



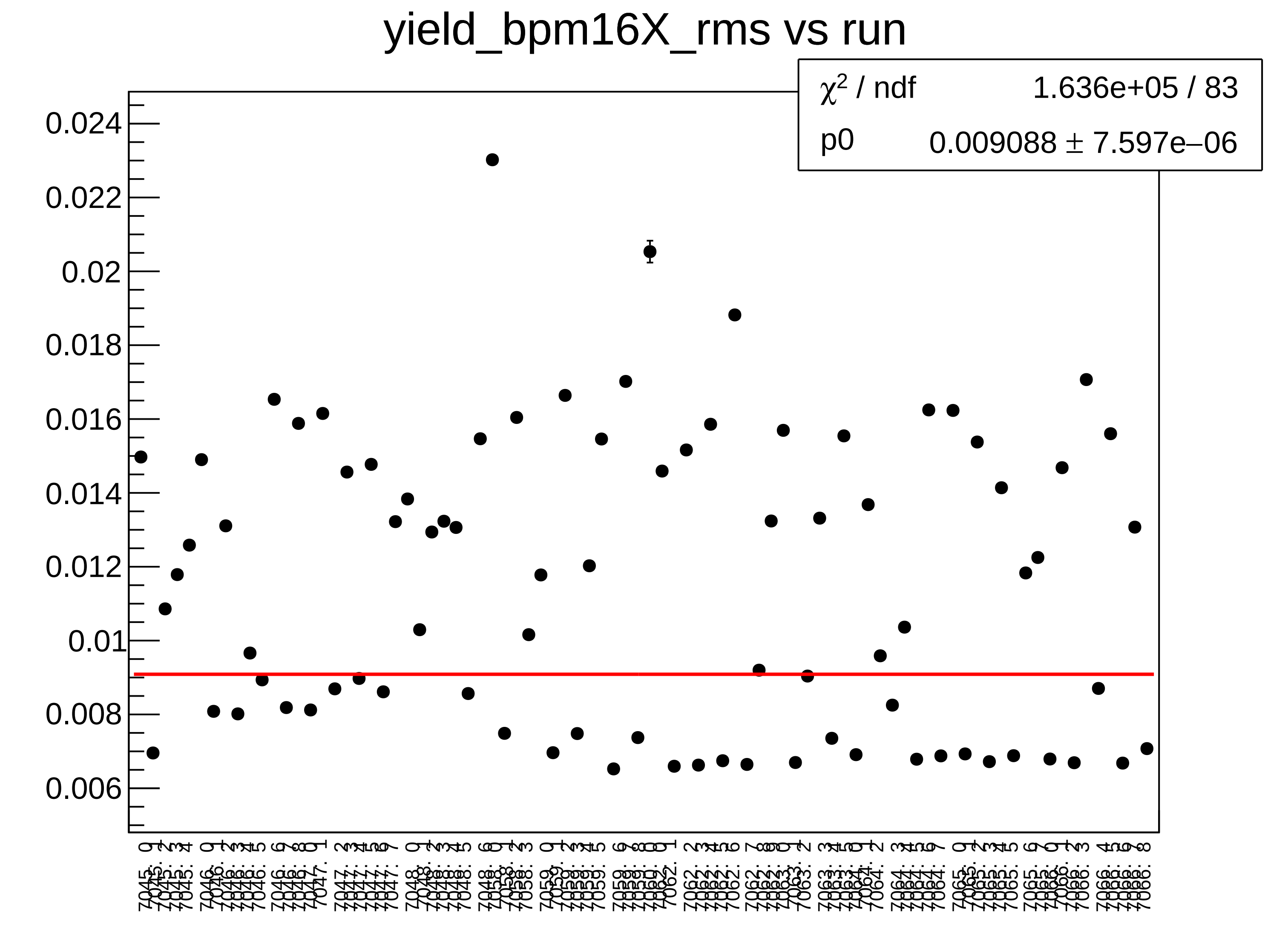
yield_bpm12Y_mean vs run
χ2 / ndf 8.6e+06 / 83
p0 1.283 ± 9.898e−06
1.33
1.32
1.31
1.3
1.29
1.28
1.27
1.26
1.25
pull
Entries 84
Mean 507.8
Std Dev 469.1
400
200
0
−200
−400
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

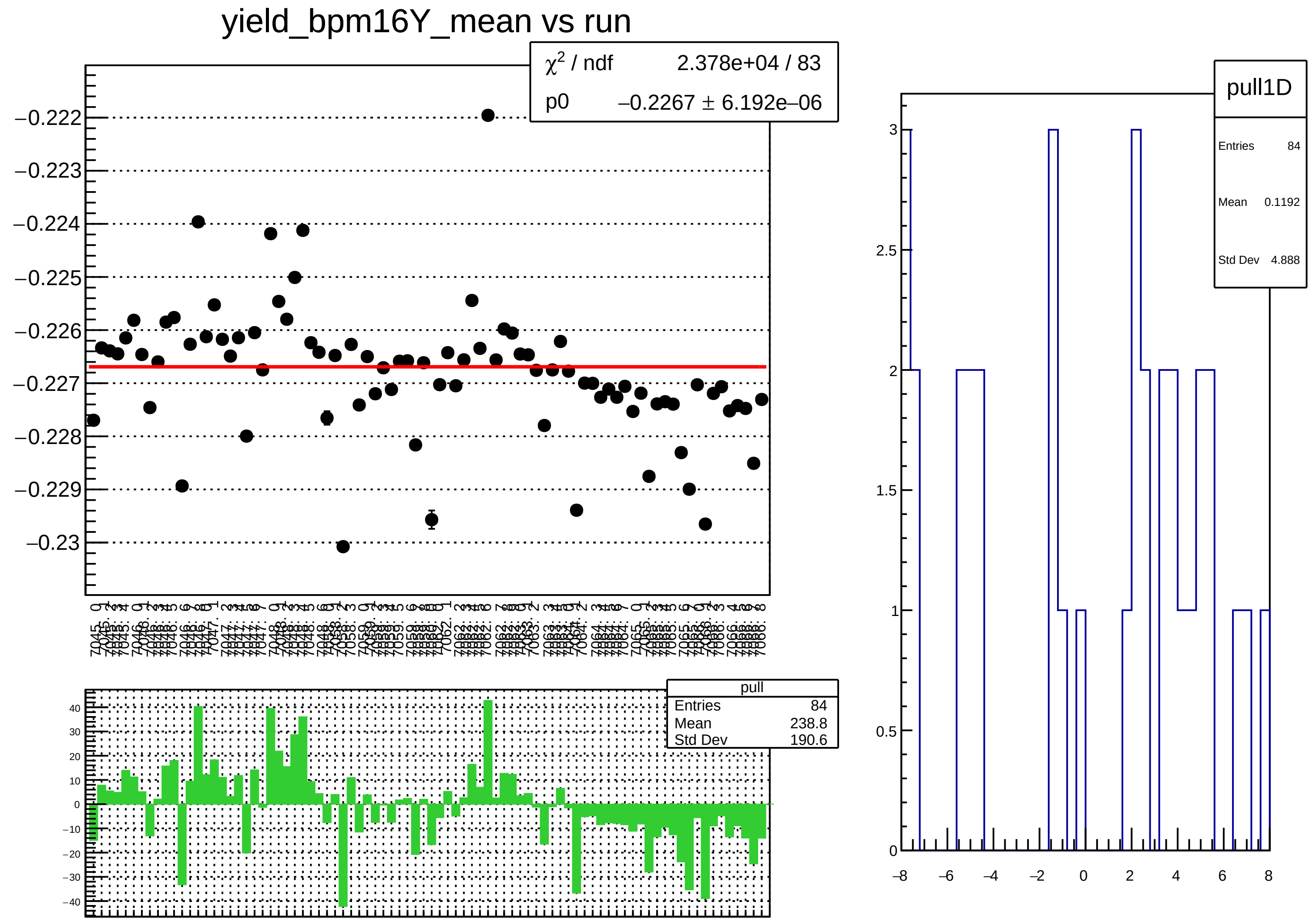


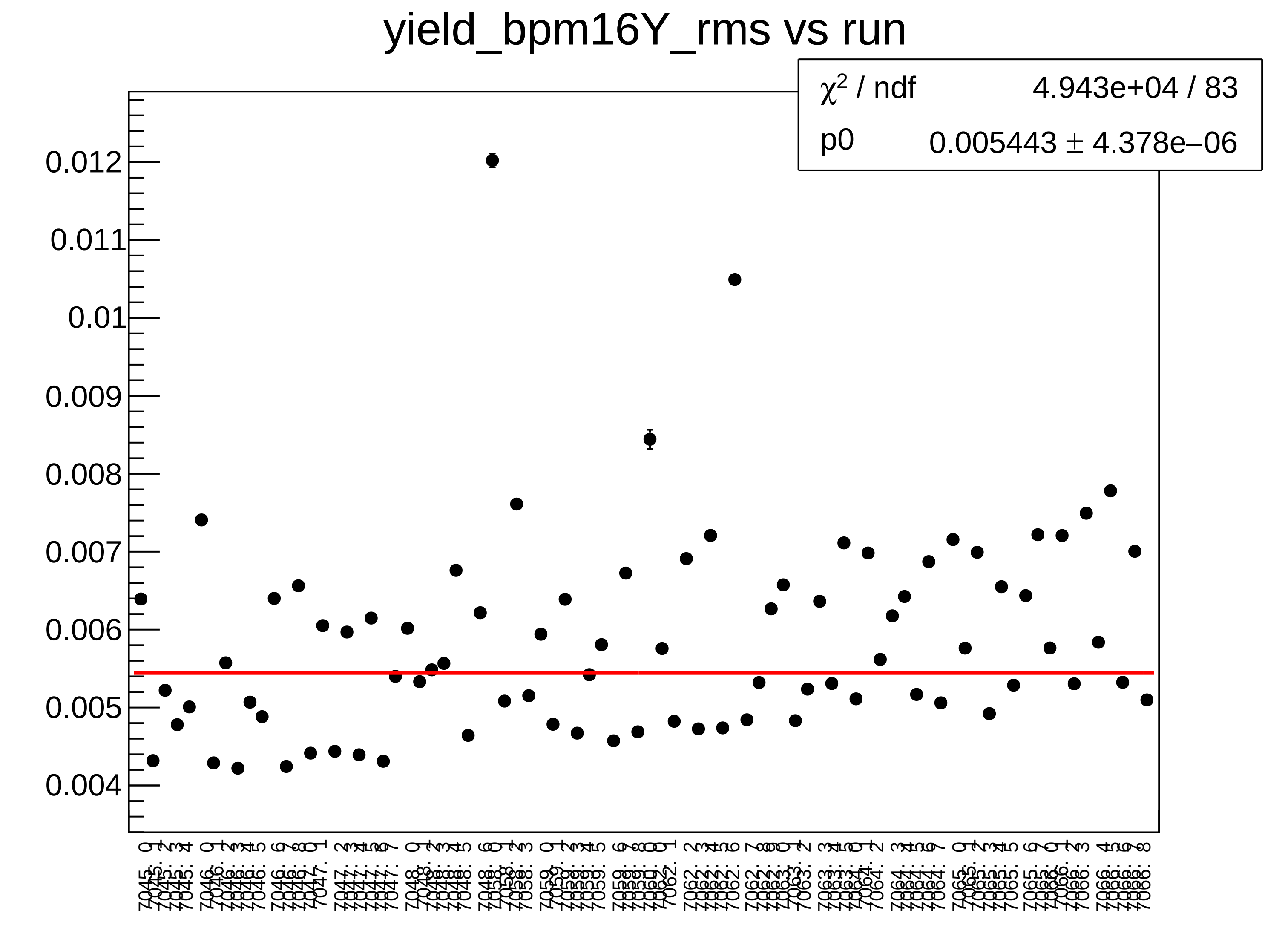
yield_bpm12Y_rms vs run
χ2 / ndf 3.208e+04 / 83
p0 0.008748 ± 6.999e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004



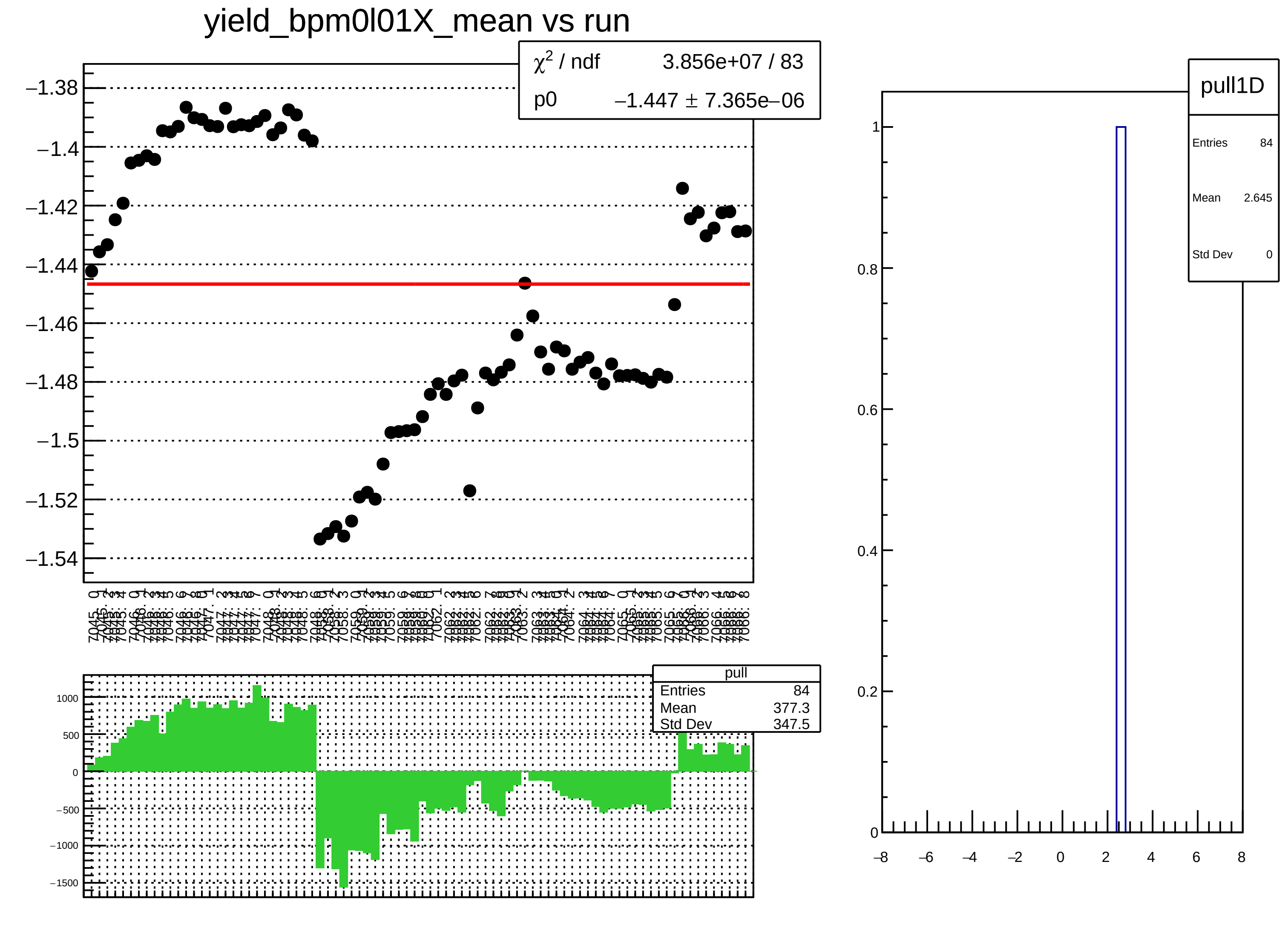
yield_bpm16X_mean vs run
$\chi^2$ / ndf 2.125e+04 / 83
p0 −0.4382 ± 1.074e−05
pull
Entries 84
Mean 25.64
Std Dev 2.236
pull1D
Entries 84
Mean −2.028
Std Dev 3.987


yield_bpm16X_rms vs run
χ2 / ndf 1.636e+05 / 83
p0 0.009088 ± 7.597e−06

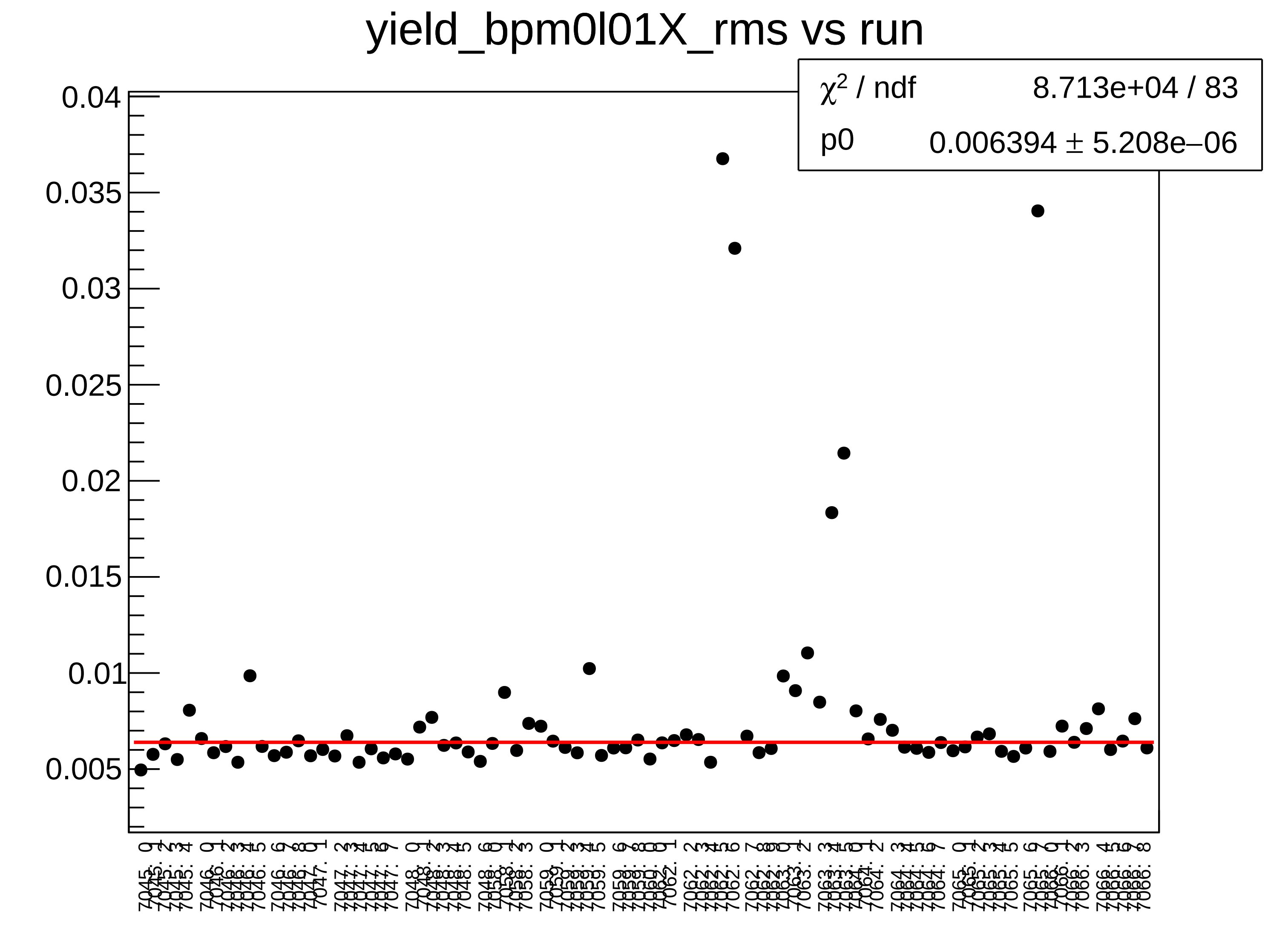

yield_bpm16Y_mean vs run
$\chi^2$ / ndf 2.378e+04 / 83
p0 −0.2267 ± 6.192e−06
−0.222
−0.223
−0.224
−0.225
−0.226
−0.227
−0.228
−0.229
−0.23
pull
Entries 84
Mean 238.8
Std Dev 190.6
40
30
20
10
0
−10
−20
−30
−40
pull1D
Entries 84
Mean 0.1192
Std Dev 4.888
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

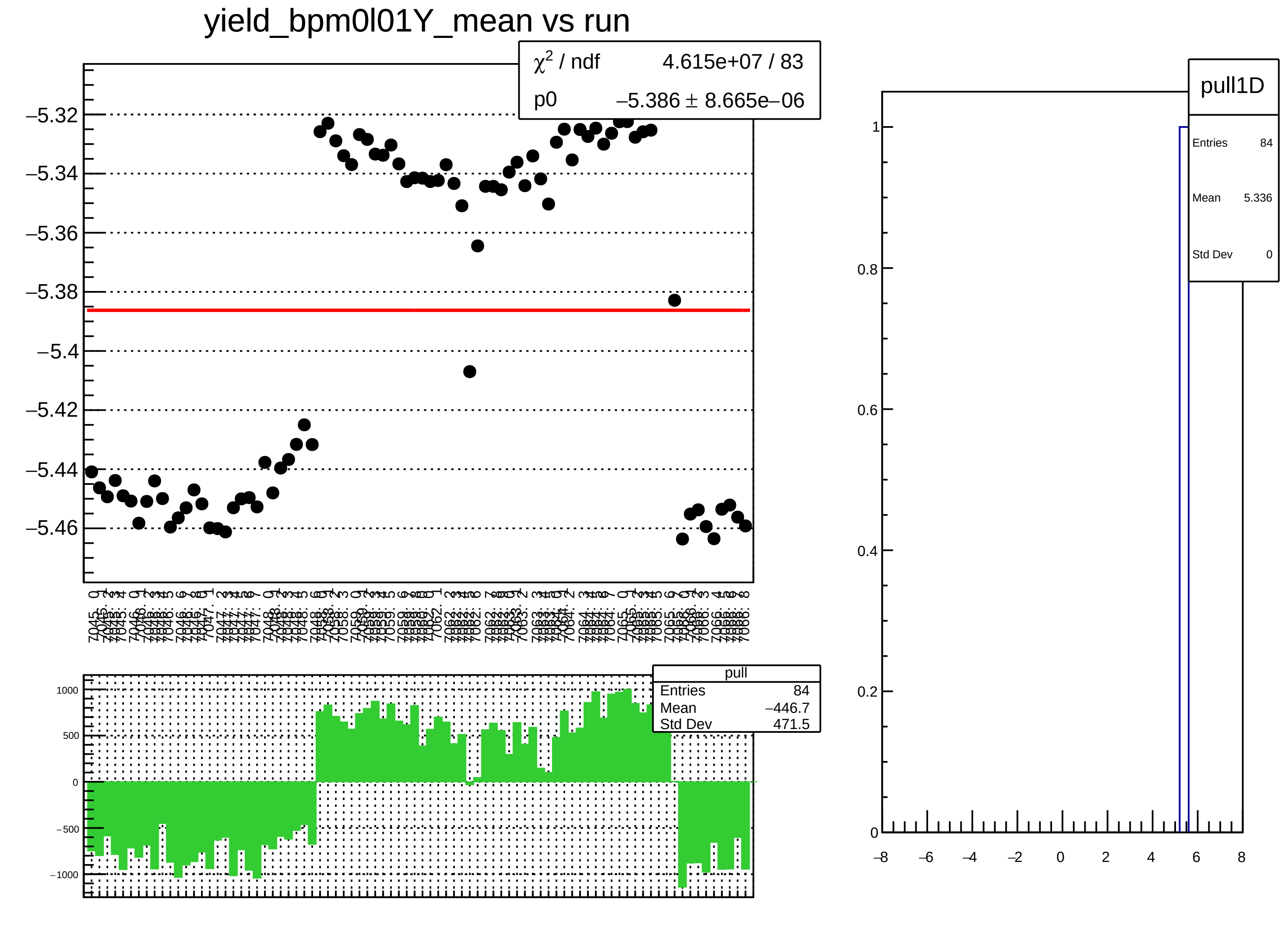


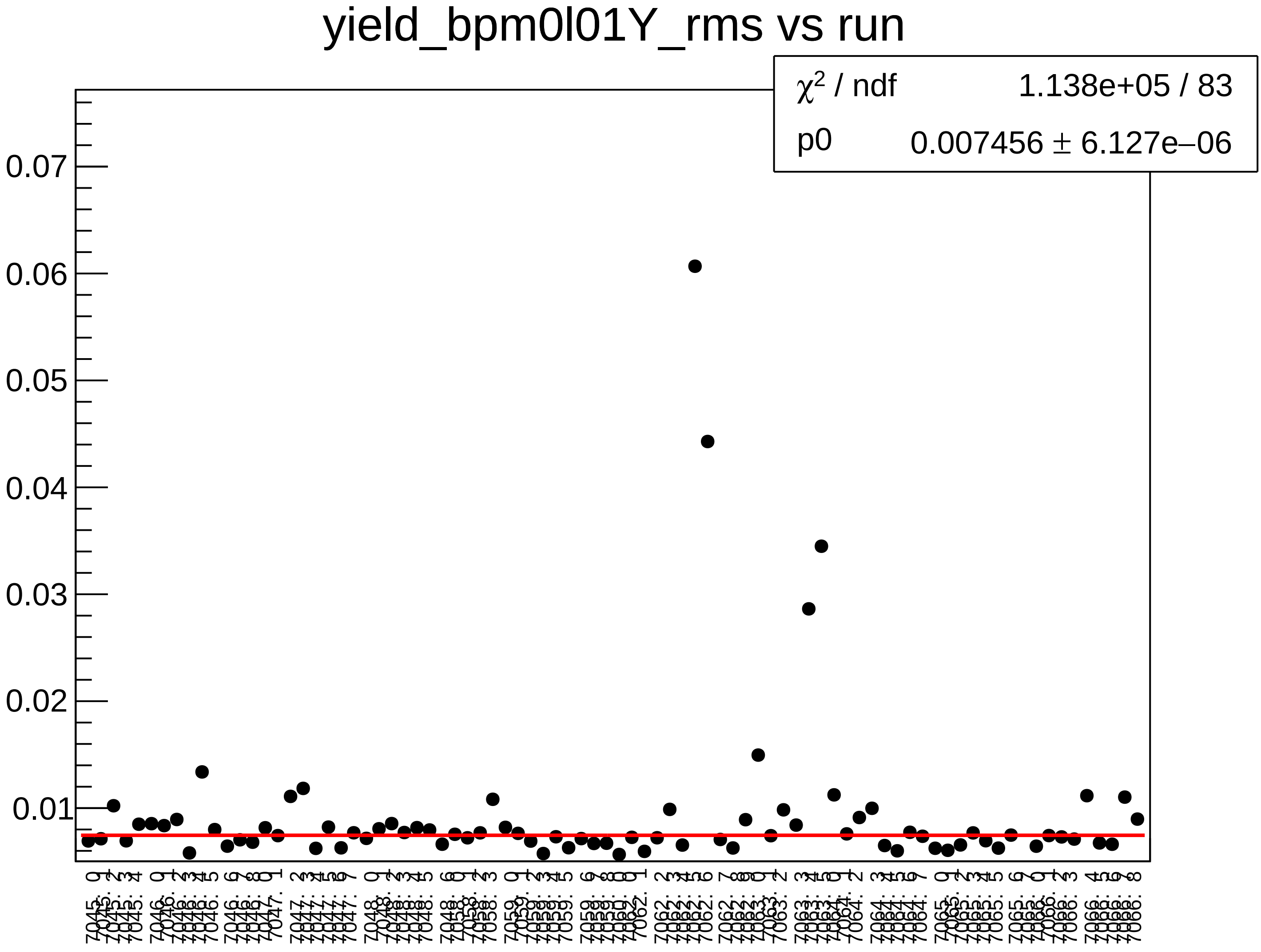
yield_bpm16Y_rms vs run
$\chi^2$ / ndf 4.943e+04 / 83
p0 0.005443 ± 4.378e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004



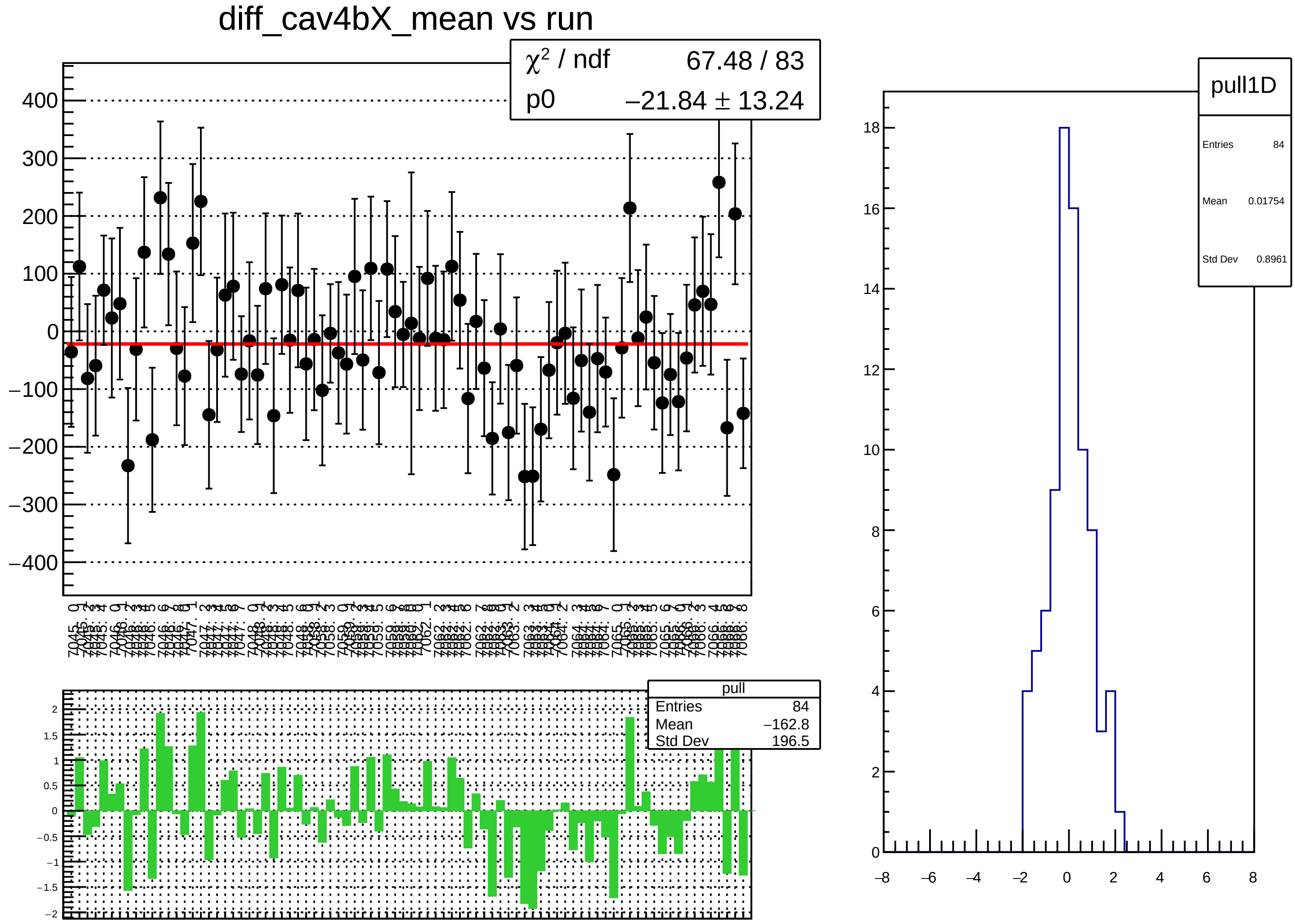
yield_bpm0l01X_mean vs run
$\chi^2$ / ndf 3.856e+07 / 83
p0 −1.447 ± 7.365e−06
pull
Entries 84
Mean 377.3
Std Dev 347.5
pull1D
Entries 84
Mean 2.645
Std Dev 0


yield_bpm0l01X_rms vs run
χ2 / ndf 8.713e+04 / 83
p0 0.006394 ± 5.208e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

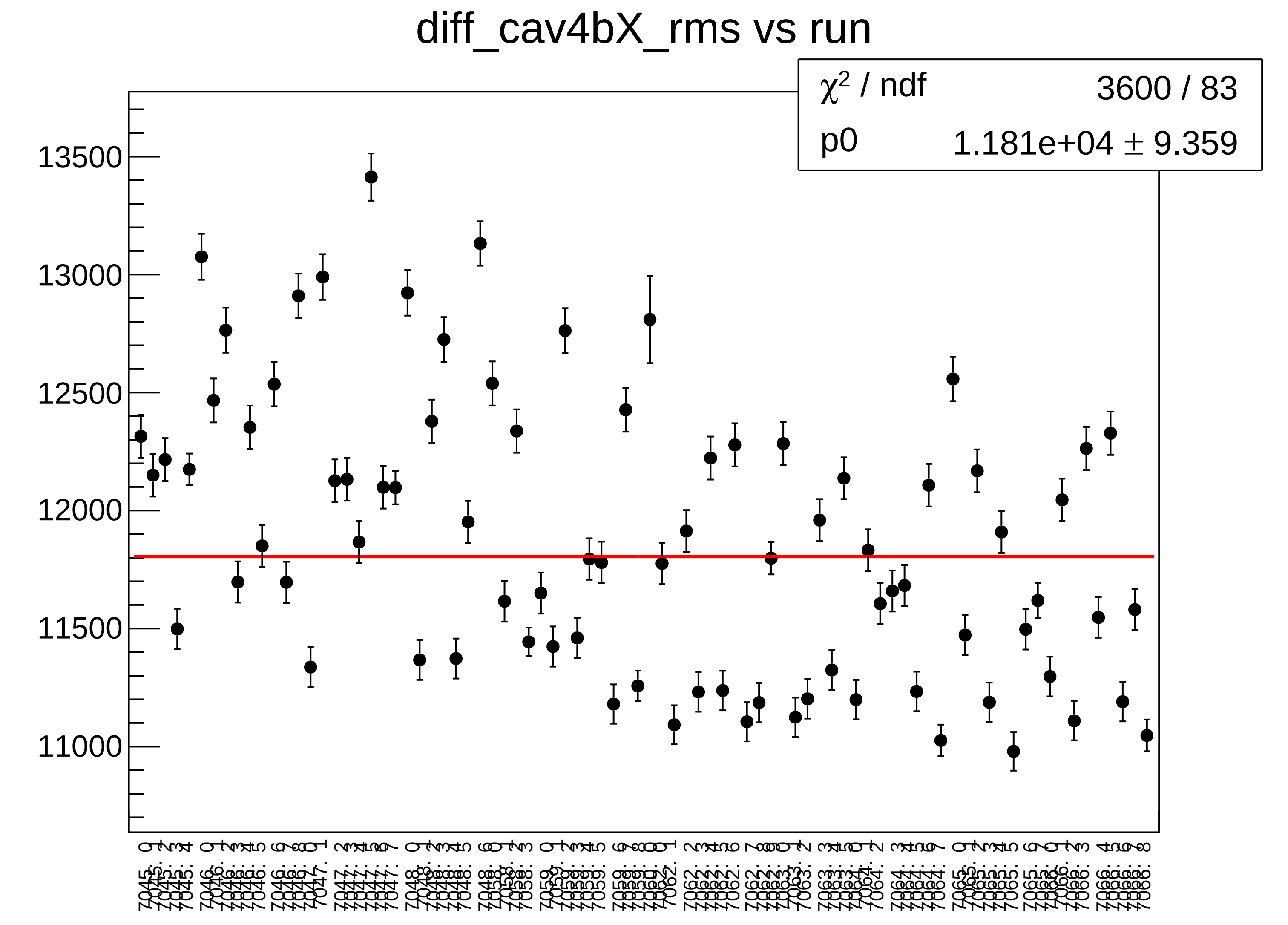

yield_bpm0l01Y_mean vs run
$\chi^2$ / ndf 4.615e+07 / 83
p0 −5.386 ± 8.665e−06
−5.32
−5.34
−5.36
−5.38
−5.4
−5.42
−5.44
−5.46
pull
Entries 84
Mean −446.7
Std Dev 471.5
1000
500
0
−500
−1000
pull1D
Entries 84
Mean 5.336
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

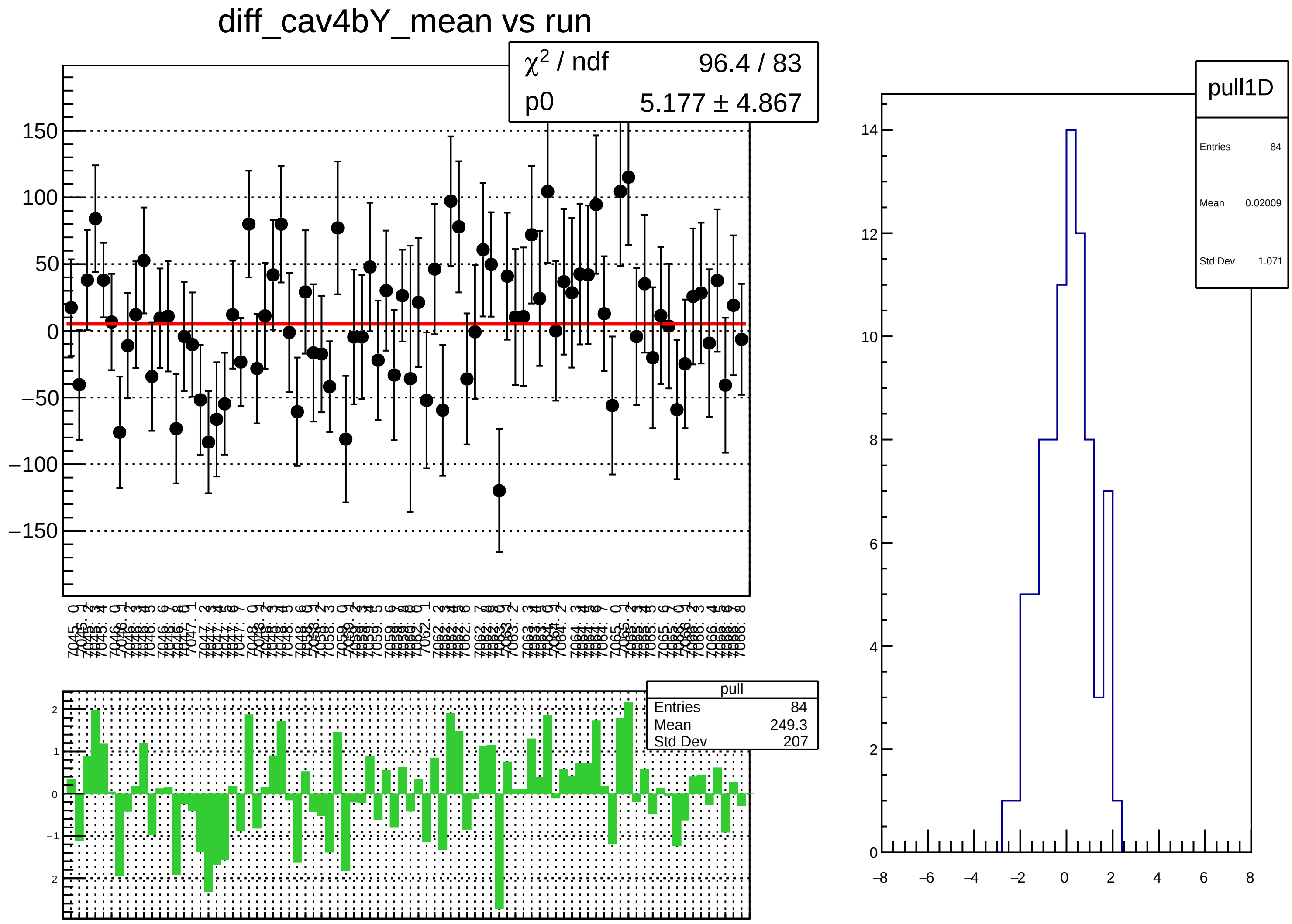


yield_bpm0l01Y_rms vs run
χ2 / ndf 1.138e+05 / 83
p0 0.007456 ± 6.127e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

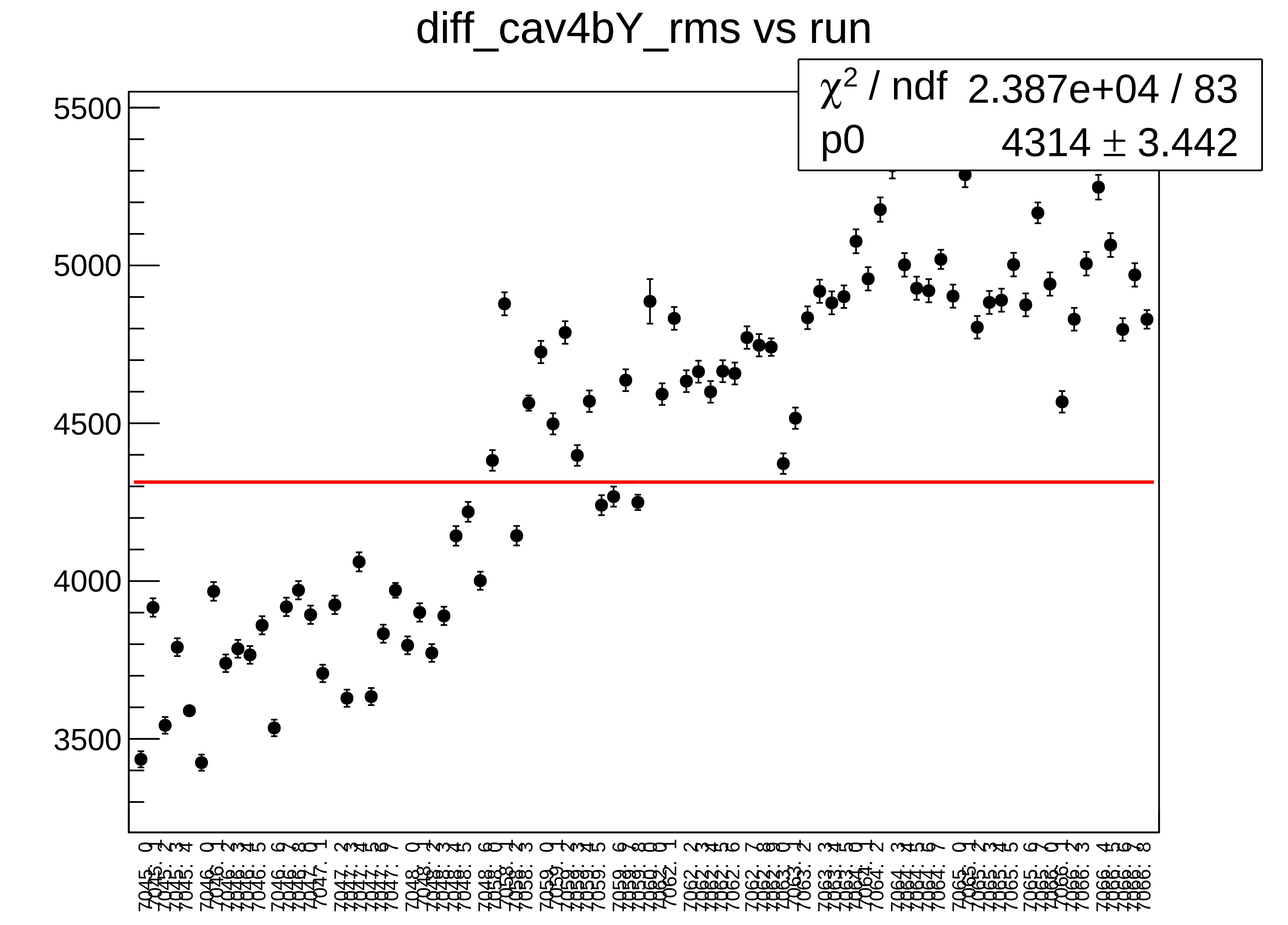


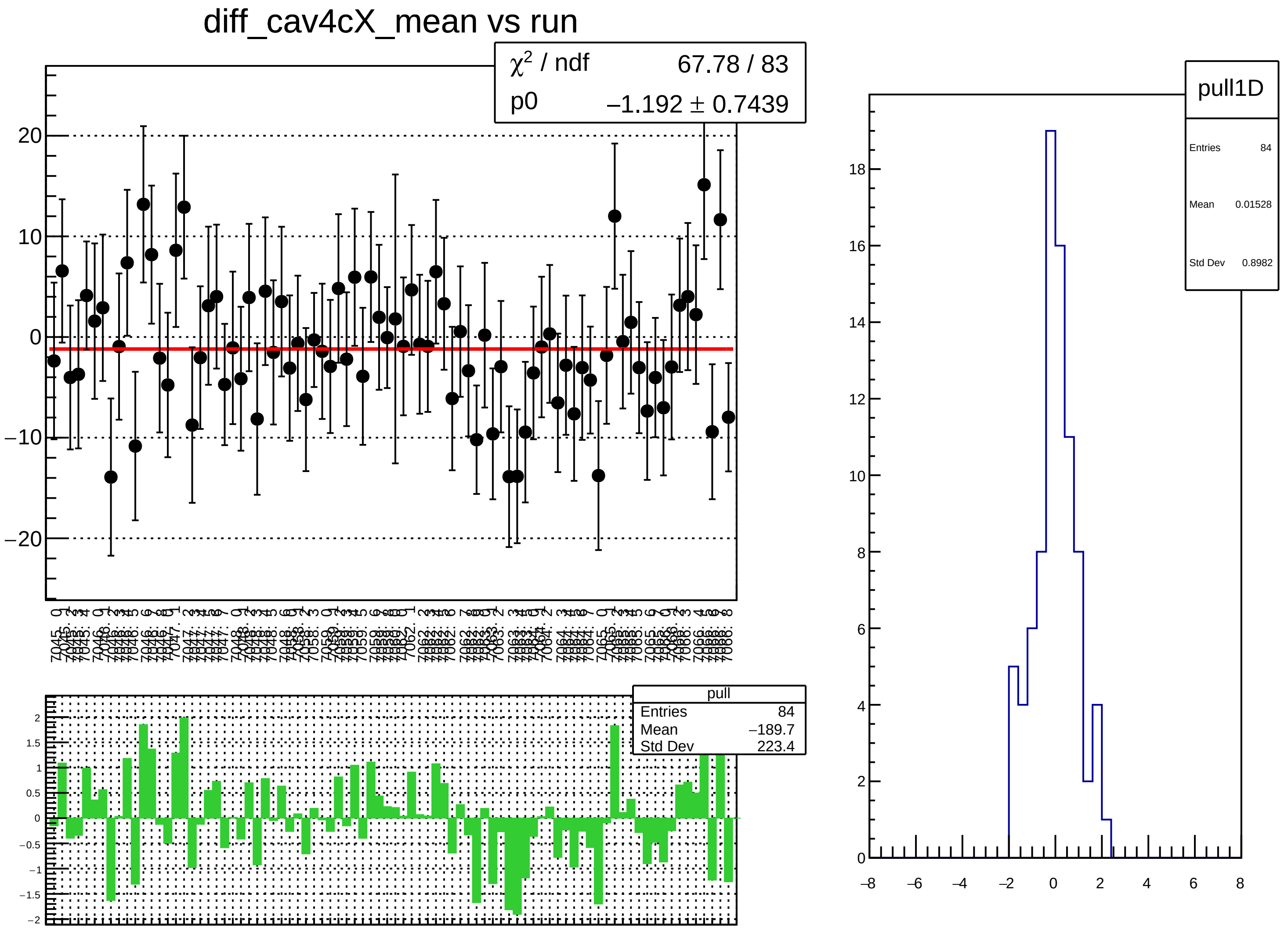
diff_cav4bX_mean vs run
$\chi^2$ / ndf 67.48 / 83
p0 −21.84 ± 13.24
pull
Entries 84
Mean −162.8
Std Dev 196.5
pull1D
Entries 84
Mean 0.01754
Std Dev 0.8961


diff_cav4bX_rms vs run
χ² / ndf 3600 / 83
p0 1.181e+04 ± 9.359
13500
13000
12500
12000
11500
11000

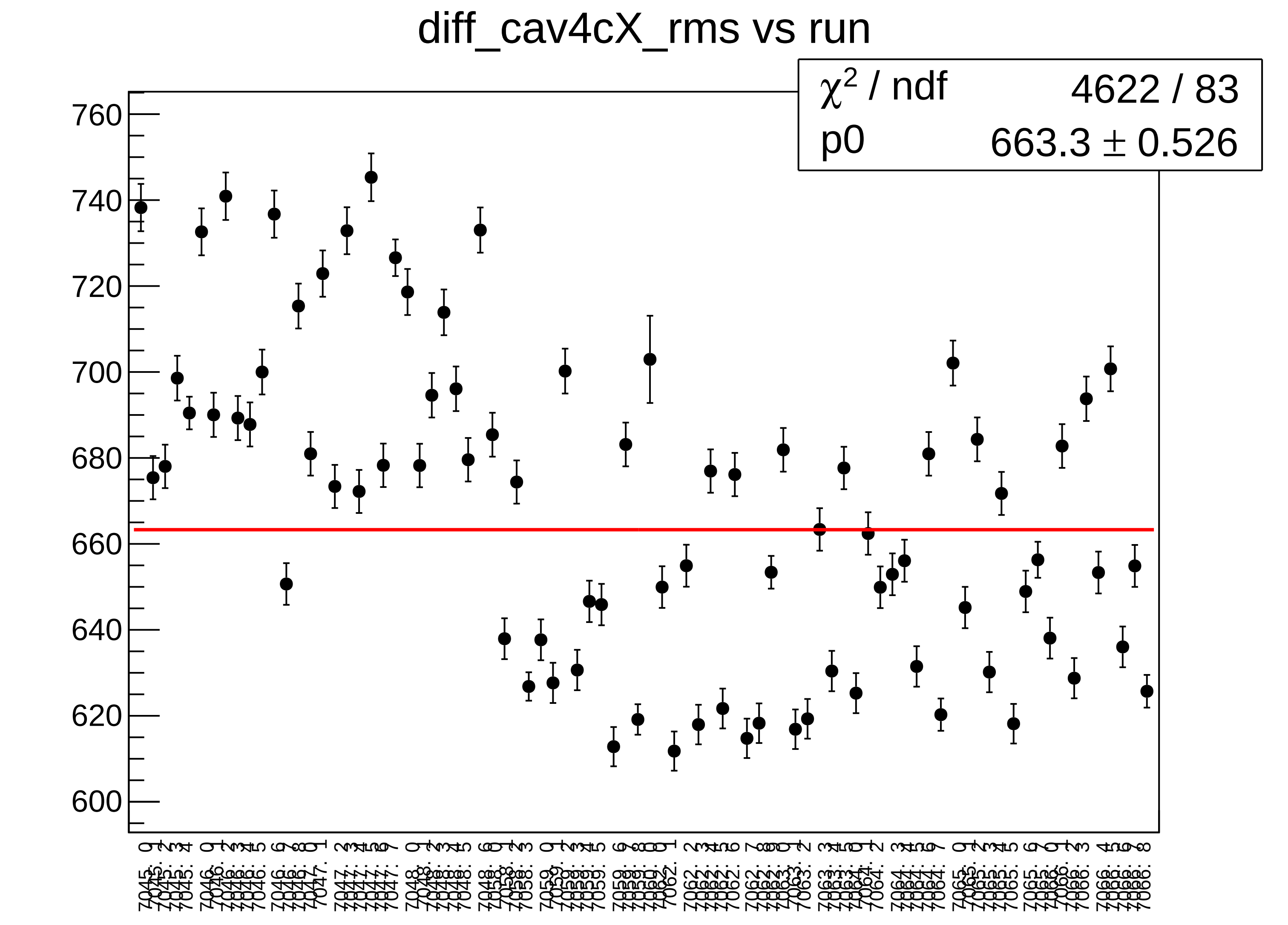


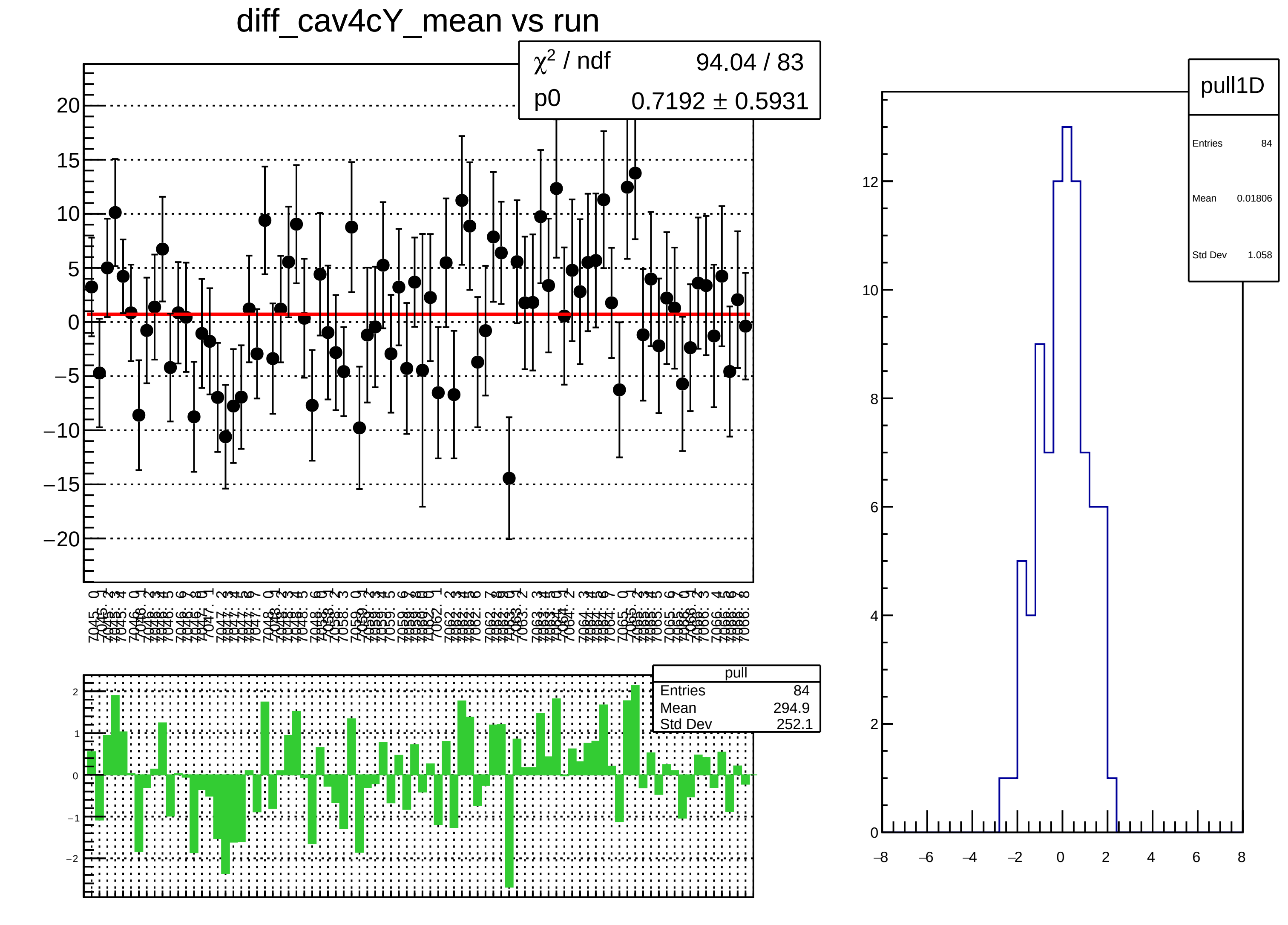
diff_cav4bY_mean vs run
$\chi^2$ / ndf 96.4 / 83
p0 5.177 ± 4.867
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 249.3
Std Dev 207
pull1D
Entries 84
Mean 0.02009
Std Dev 1.071


diff_cav4bY_rms vs run
$\chi^2$ / ndf 2.387e+04 / 83
p0 4314 ± 3.442
5500
5000
4500
4000
3500

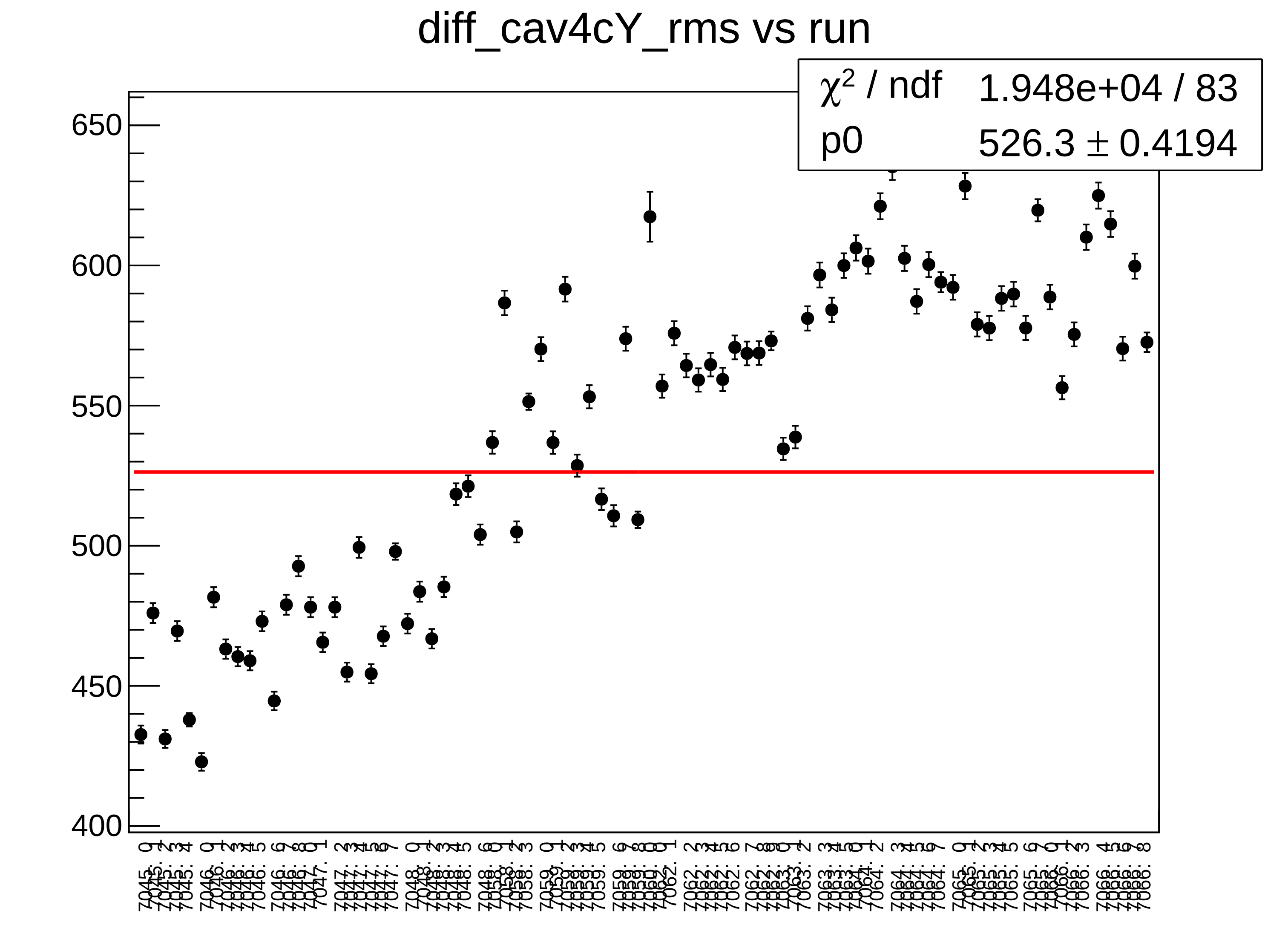


diff_cav4cX_mean vs run
$\chi^2$ / ndf 67.78 / 83
p0 −1.192 ± 0.7439
pull
Entries 84
Mean −189.7
Std Dev 223.4
pull1D
Entries 84
Mean 0.01528
Std Dev 0.8982

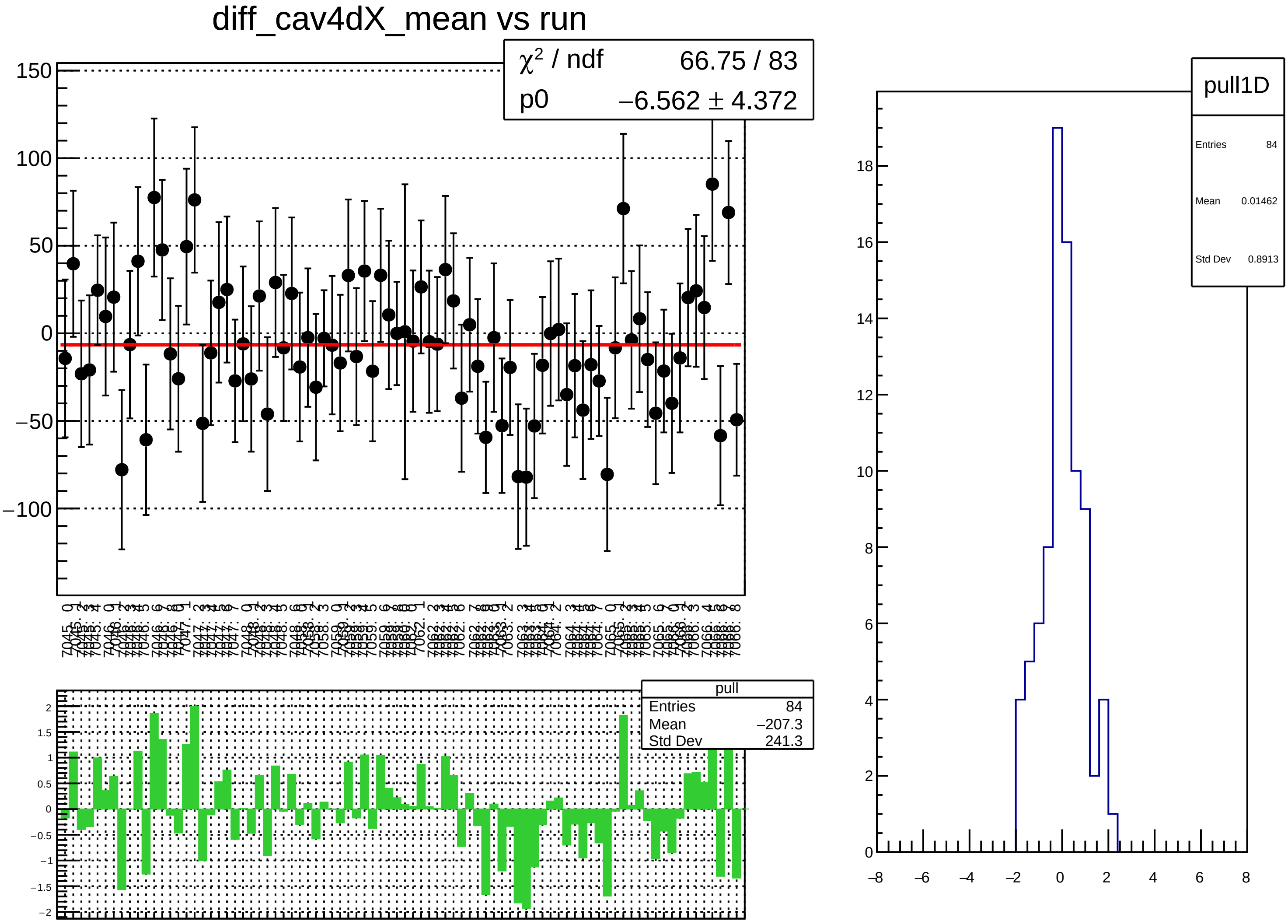

diff_cav4cX_rms vs run
χ2 / ndf 4622 / 83
p0 663.3 ± 0.526
760
740
720
700
680
660
640
620
600

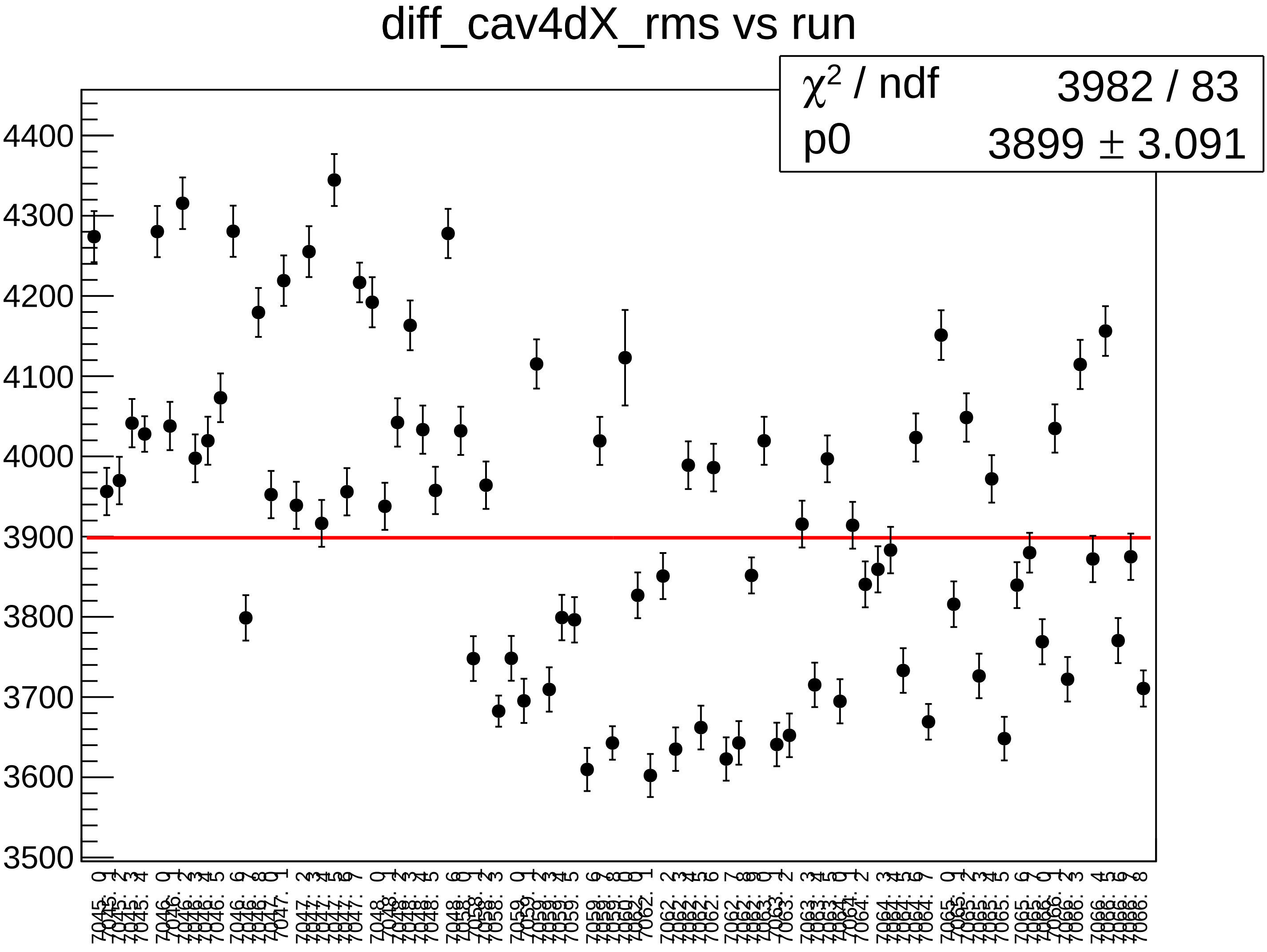


diff_cav4cY_mean vs run
χ2 / ndf 94.04 / 83
p0 0.7192 ± 0.5931
pull
Entries 84
Mean 294.9
Std Dev 252.1
pull1D
Entries 84
Mean 0.01806
Std Dev 1.058

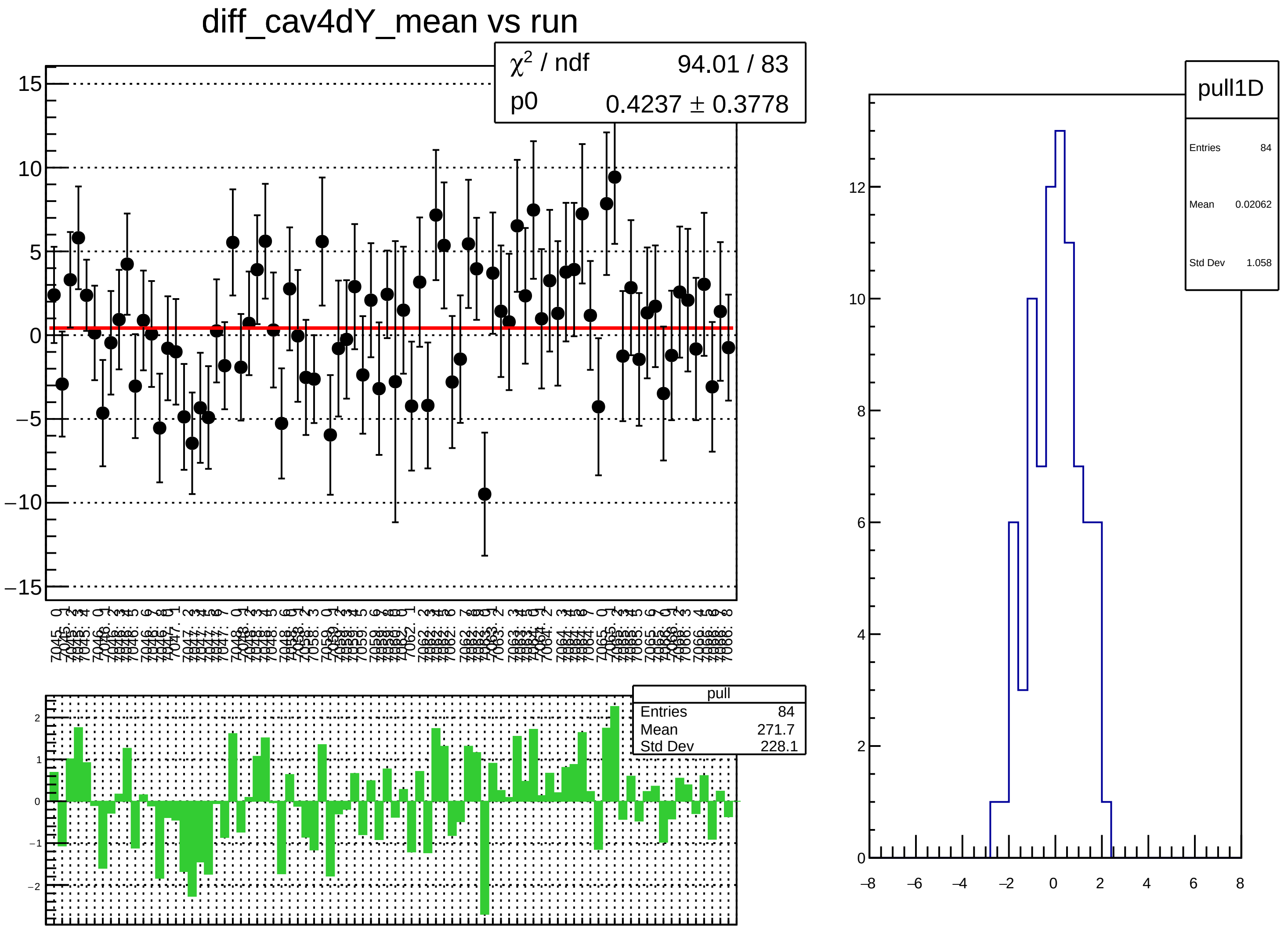


diff_cav4cY_rms vs run
χ2 / ndf 1.948e+04 / 83
p0 526.3 ± 0.4194
650
600
550
500
450
400

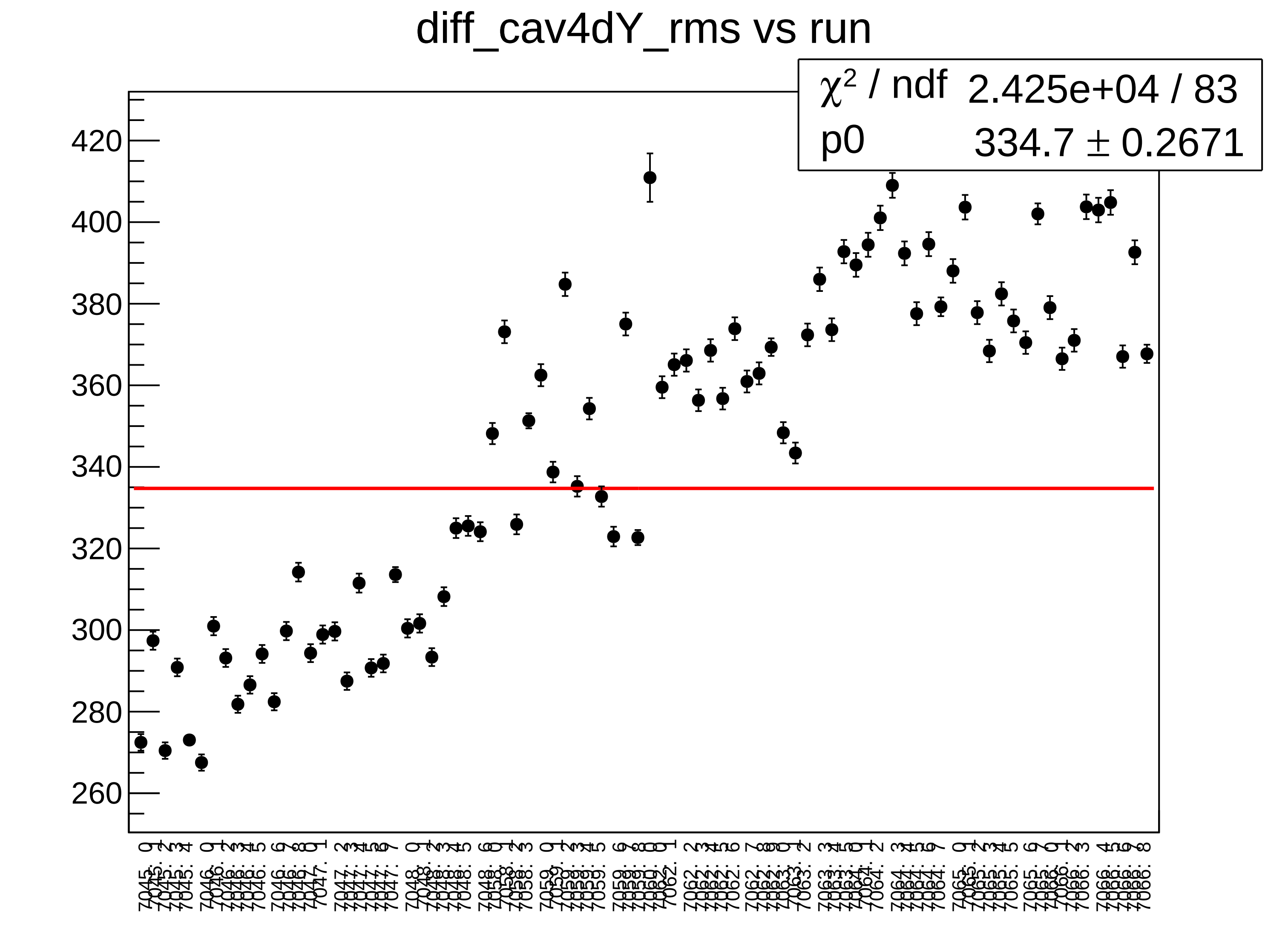

diff_cav4dX_mean vs run
χ² / ndf 66.75 / 83
p0 −6.562 ± 4.372
150
100
50
0
−50
−100
pull
Entries 84
Mean −207.3
Std Dev 241.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.01462
Std Dev 0.8913
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



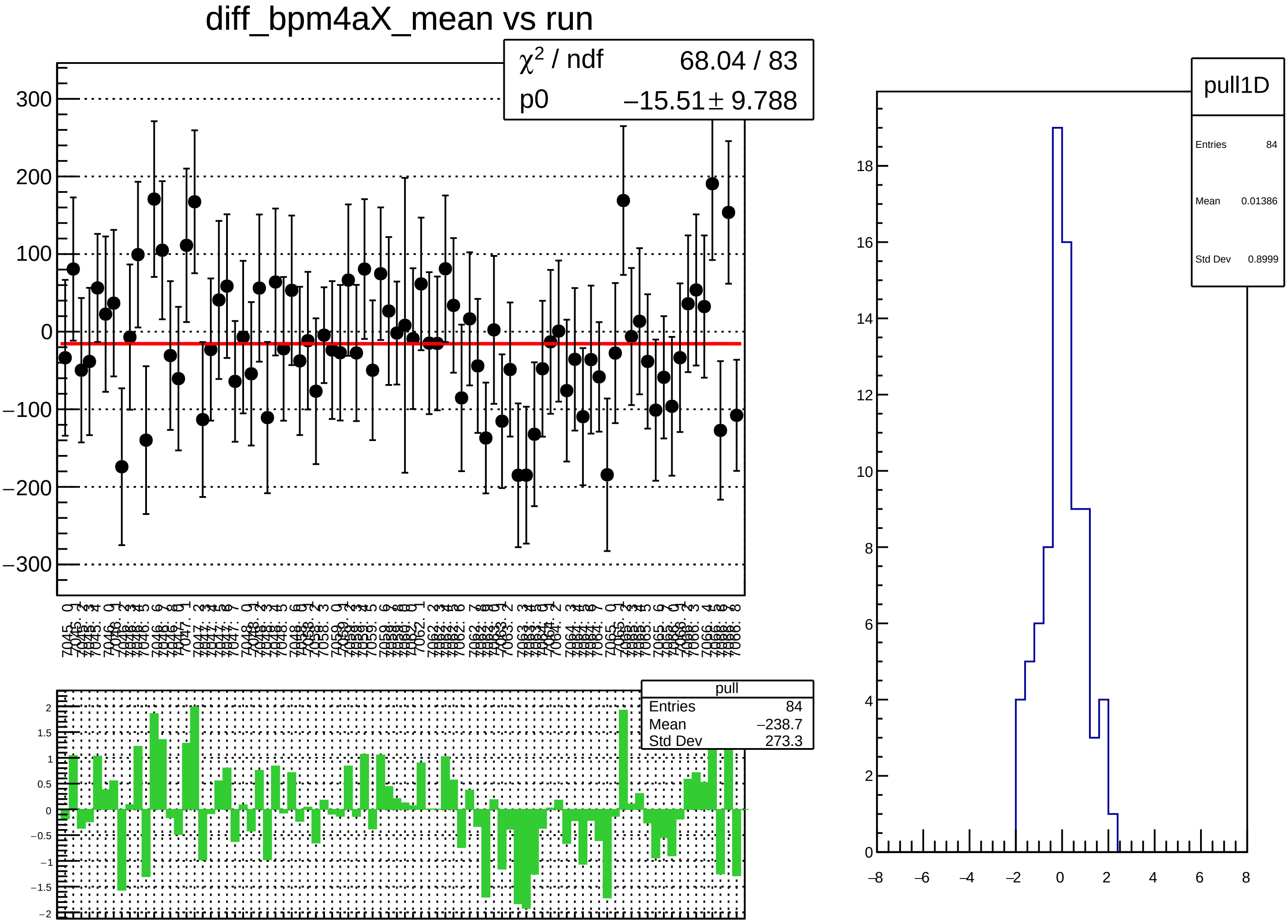
diff_cav4dX_rms vs run
$\chi^2$ / ndf 3982 / 83
p0 3899 ± 3.091
4400
4300
4200
4100
4000
3900
3800
3700
3600
3500

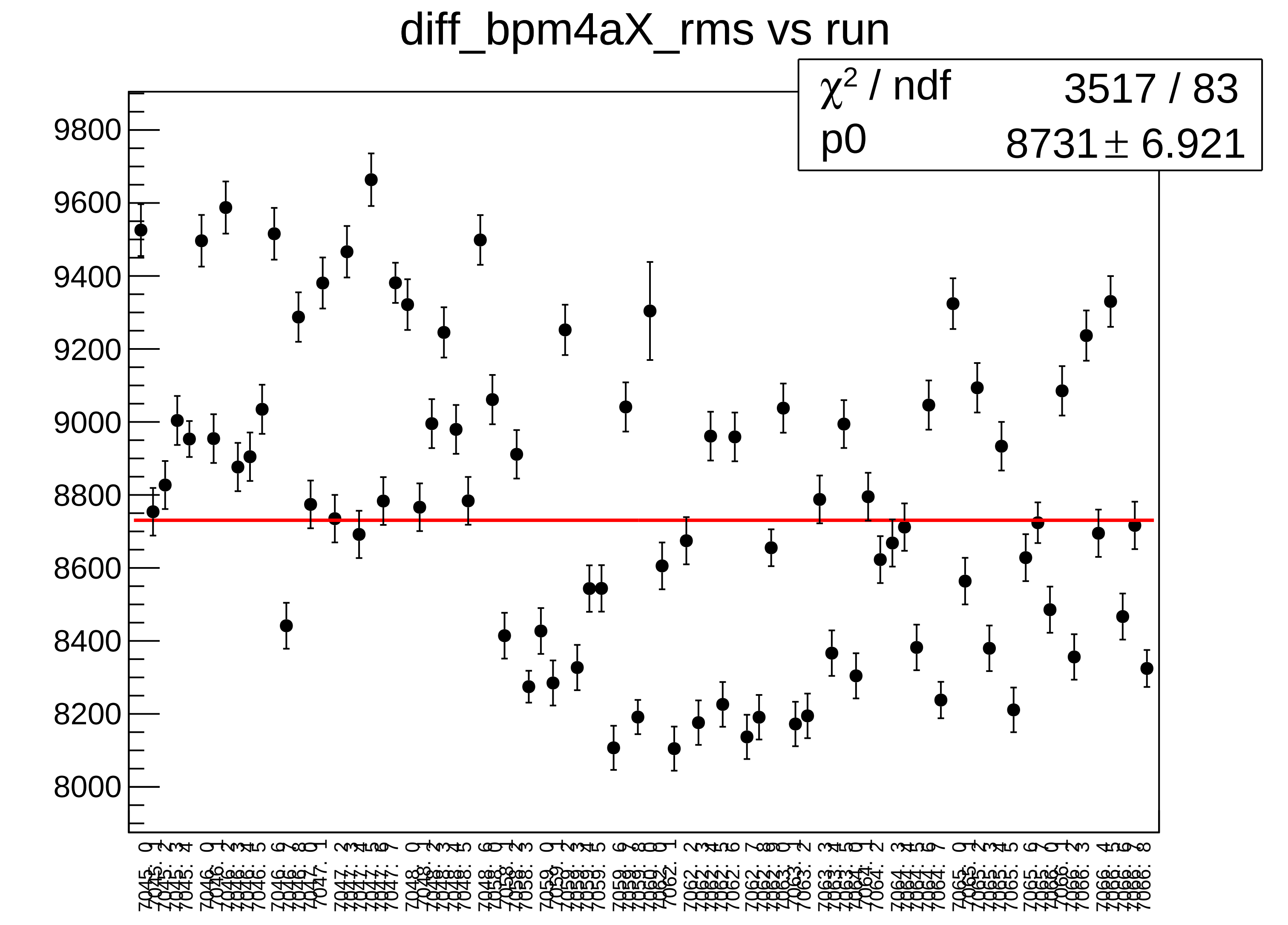


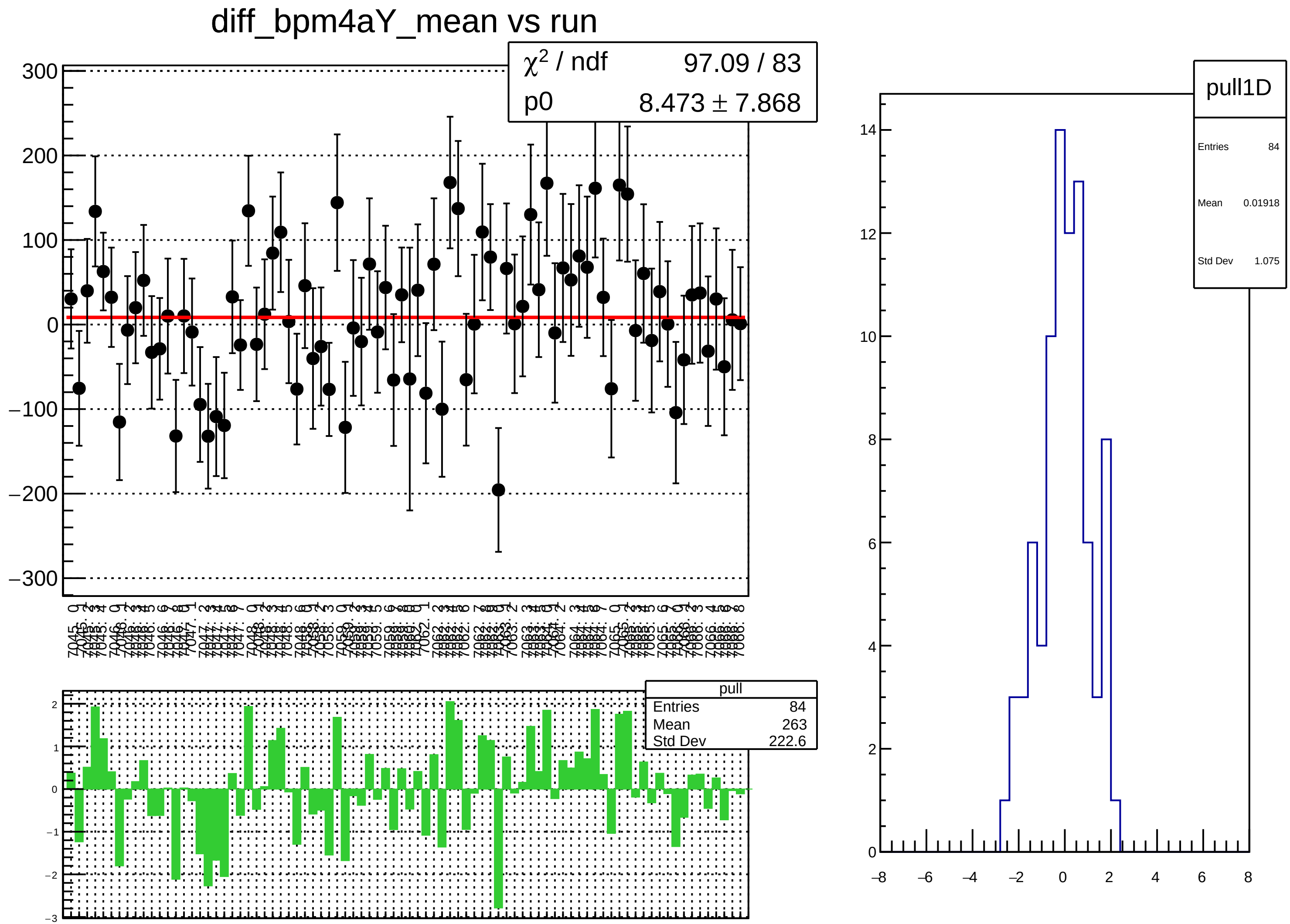
diff_cav4dY_mean vs run
$\chi^2$ / ndf 94.01 / 83
p0 0.4237 ± 0.3778
pull
Entries 84
Mean 271.7
Std Dev 228.1
pull1D
Entries 84
Mean 0.02062
Std Dev 1.058



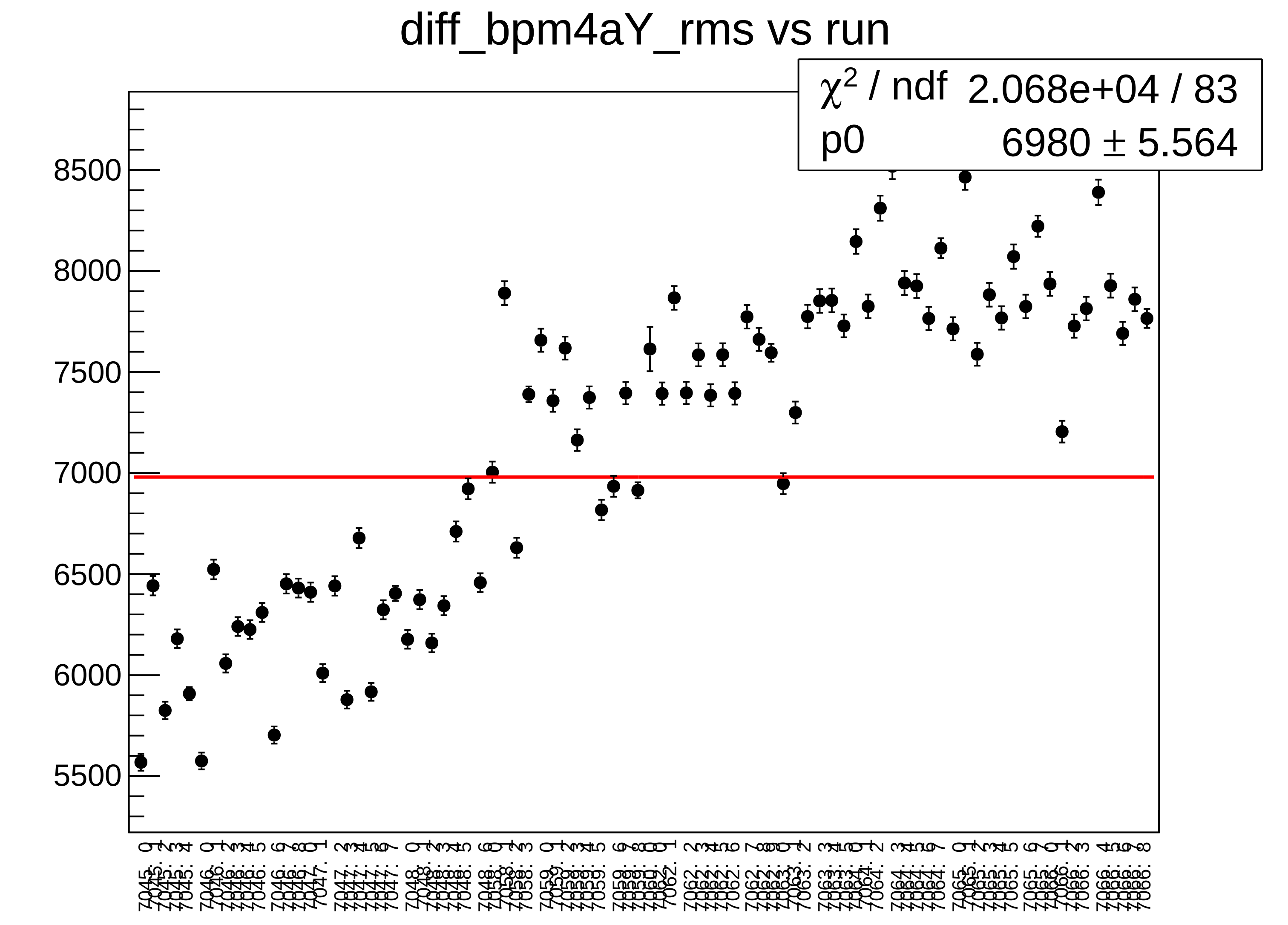
diff_cav4dY_rms vs run
χ2 / ndf 2.425e+04 / 83
p0 334.7 ± 0.2671
420
400
380
360
340
320
300
280
260


diff_bpm4aX_mean vs run
χ2 / ndf 68.04 / 83
p0 −15.51 ± 9.788
pull
Entries 84
Mean −238.7
Std Dev 273.3
pull1D
Entries 84
Mean 0.01386
Std Dev 0.8999

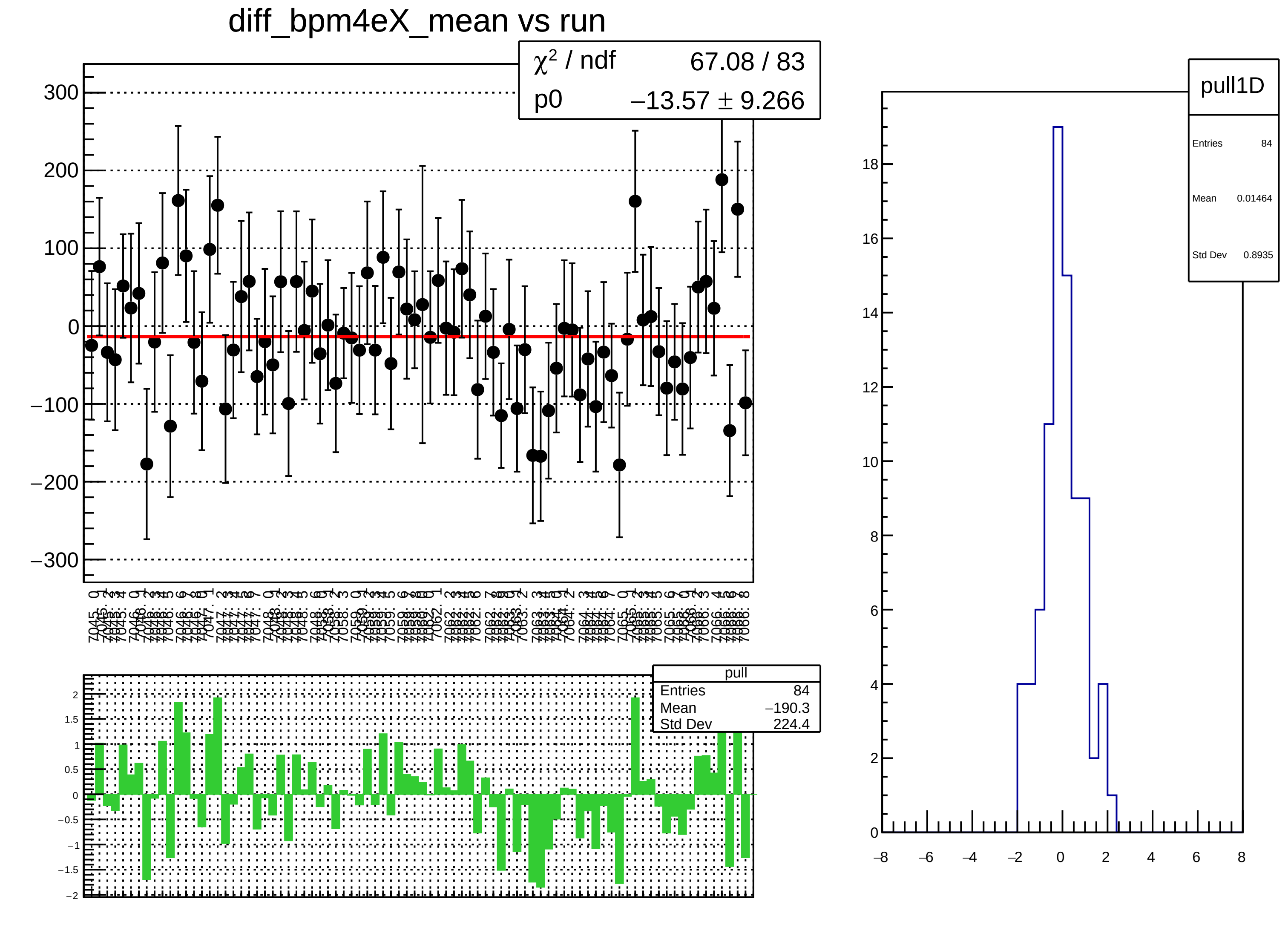

diff_bpm4aX_rms vs run
χ2 / ndf 3517 / 83
p0 8731 ± 6.921
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000

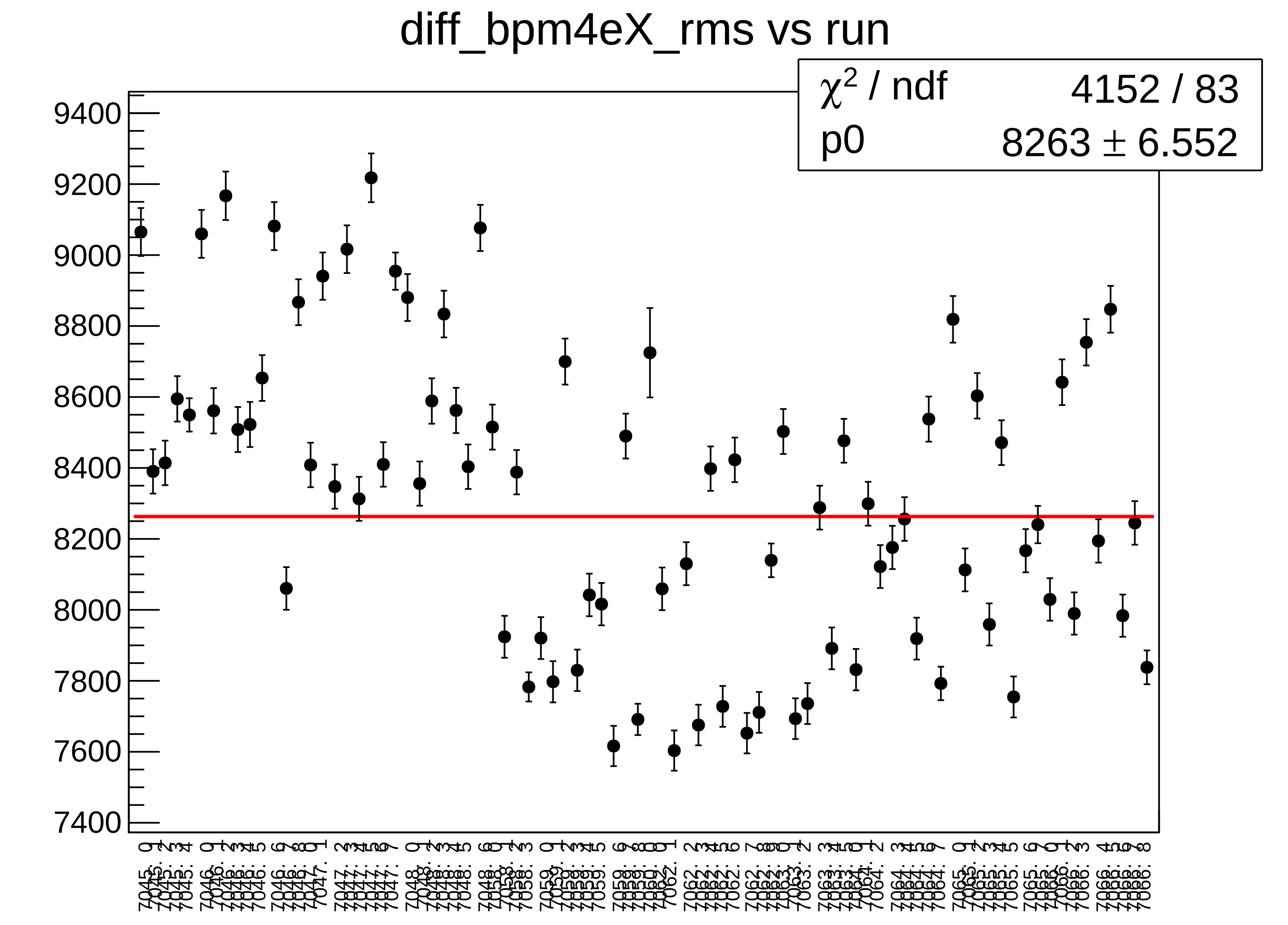


diff_bpm4aY_mean vs run
$\chi^2$ / ndf 97.09 / 83
p0 8.473 ± 7.868
pull
Entries 84
Mean 263
Std Dev 222.6
pull1D
Entries 84
Mean 0.01918
Std Dev 1.075

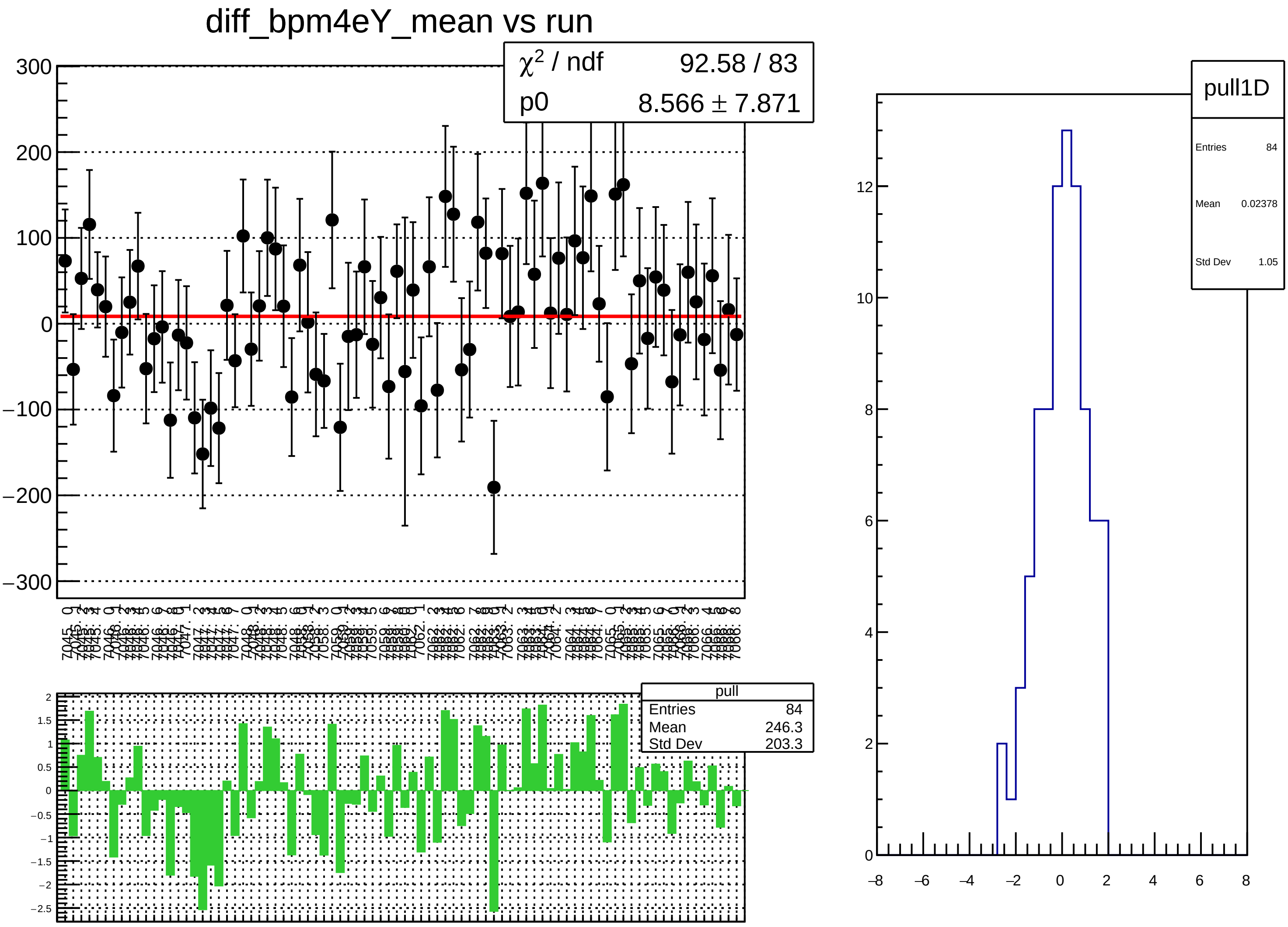


diff_bpm4aY_rms vs run
$\chi^2$ / ndf 2.068e+04 / 83
p0 6980 ± 5.564
8500
8000
7500
7000
6500
6000
5500

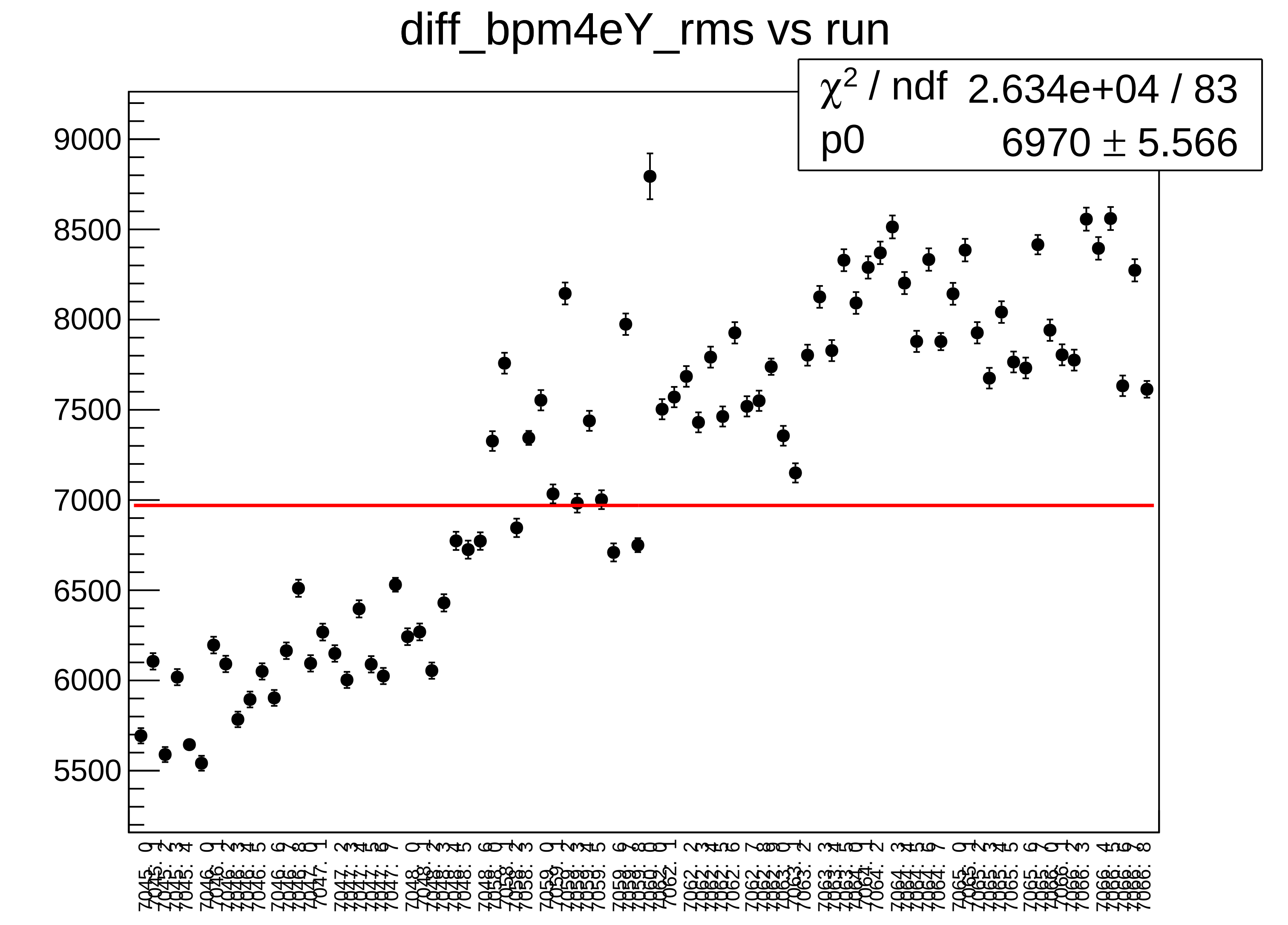

diff_bpm4eX_mean vs run
$\chi^2$ / ndf 67.08 / 83
p0 −13.57 ± 9.266
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −190.3
Std Dev 224.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.01464
Std Dev 0.8935
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

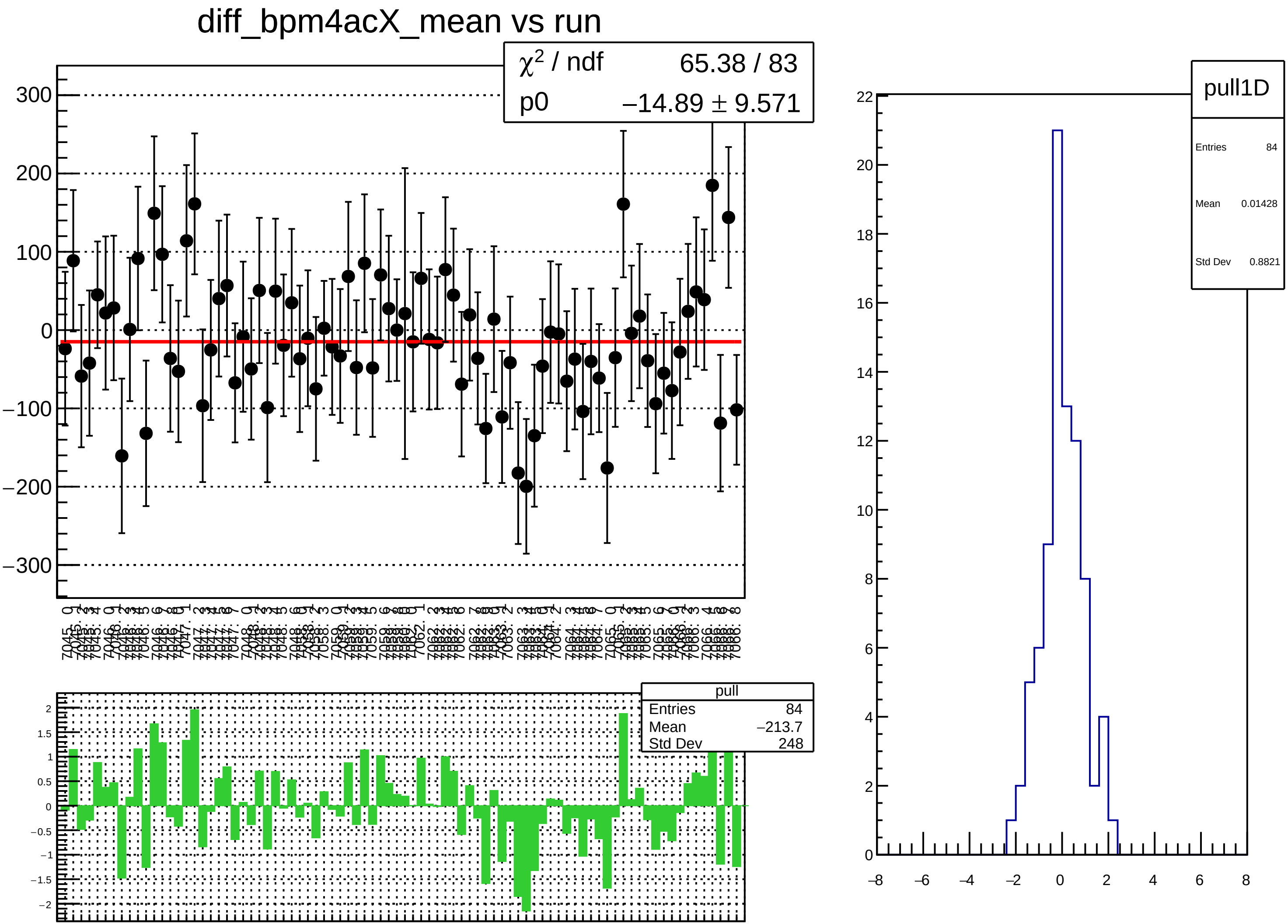


diff_bpm4eX_rms vs run
$\chi^2$ / ndf 4152 / 83
p0 8263 ± 6.552

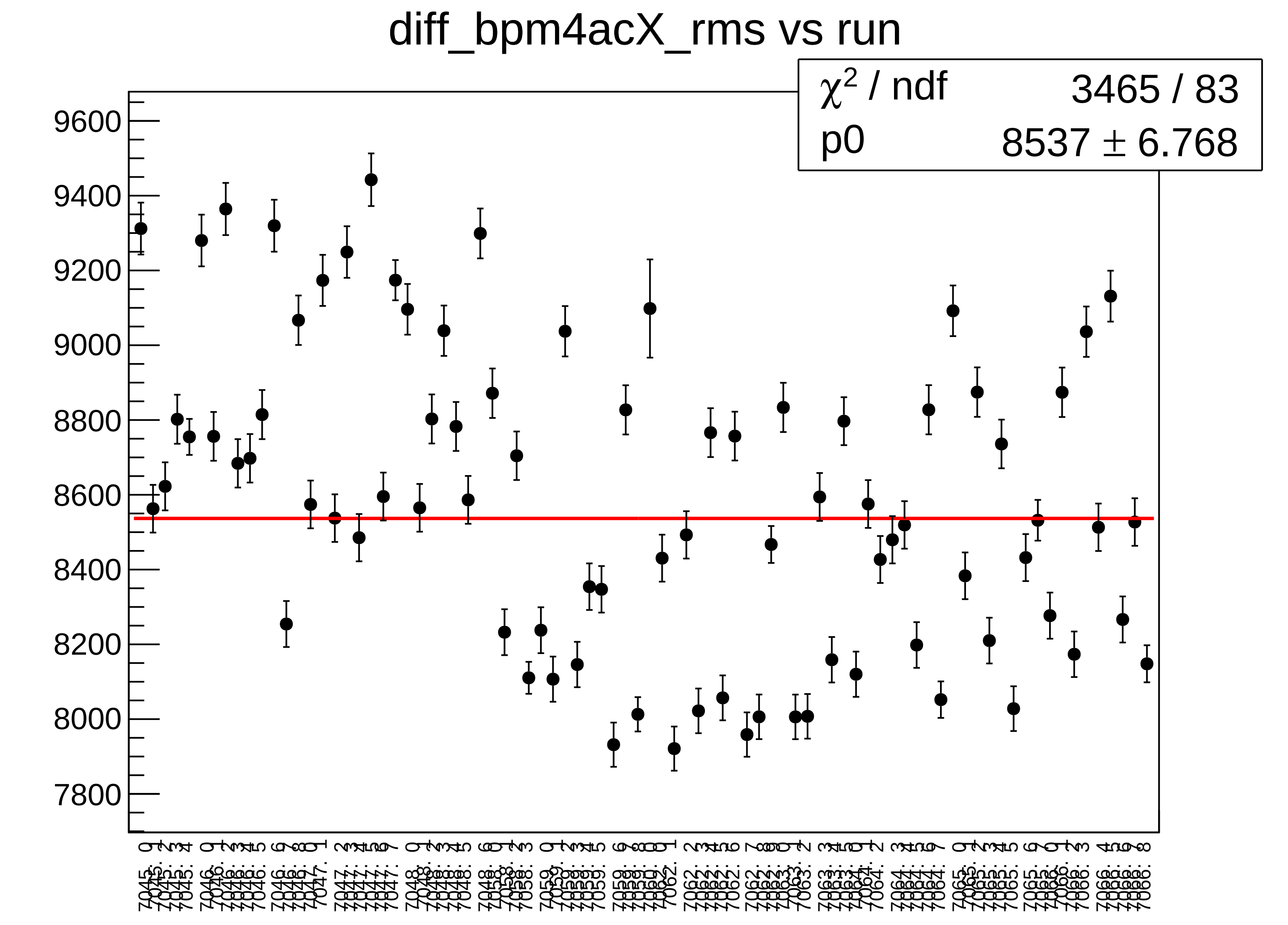


diff_bpm4eY_mean vs run
$\chi^2$ / ndf 92.58 / 83
p0 8.566 ± 7.871
pull
Entries 84
Mean 246.3
Std Dev 203.3
pull1D
Entries 84
Mean 0.02378
Std Dev 1.05

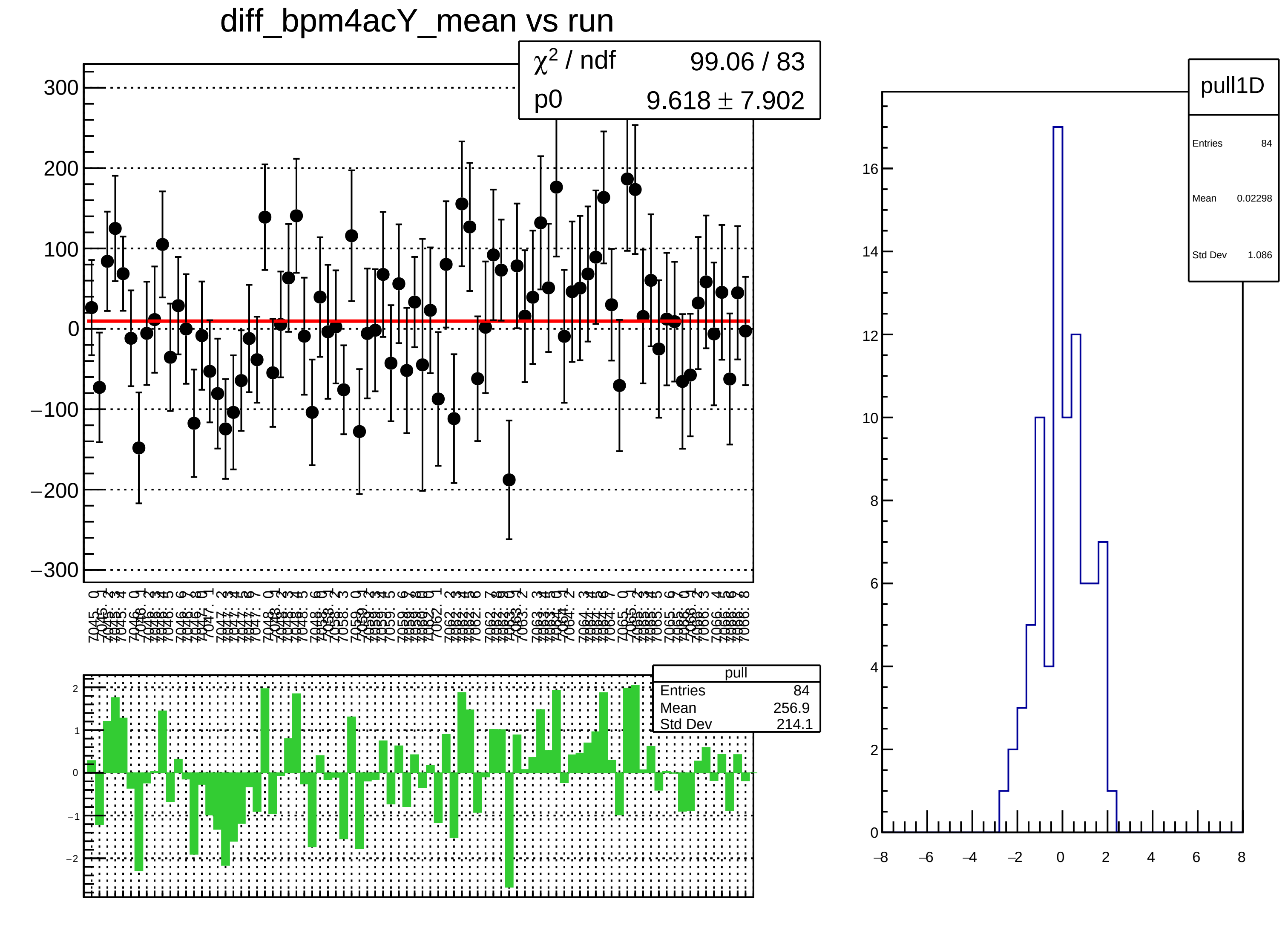

diff_bpm4eY_rms vs run
$\chi^2$ / ndf 2.634e+04 / 83
p0 6970 ± 5.566
9000
8500
8000
7500
7000
6500
6000
5500



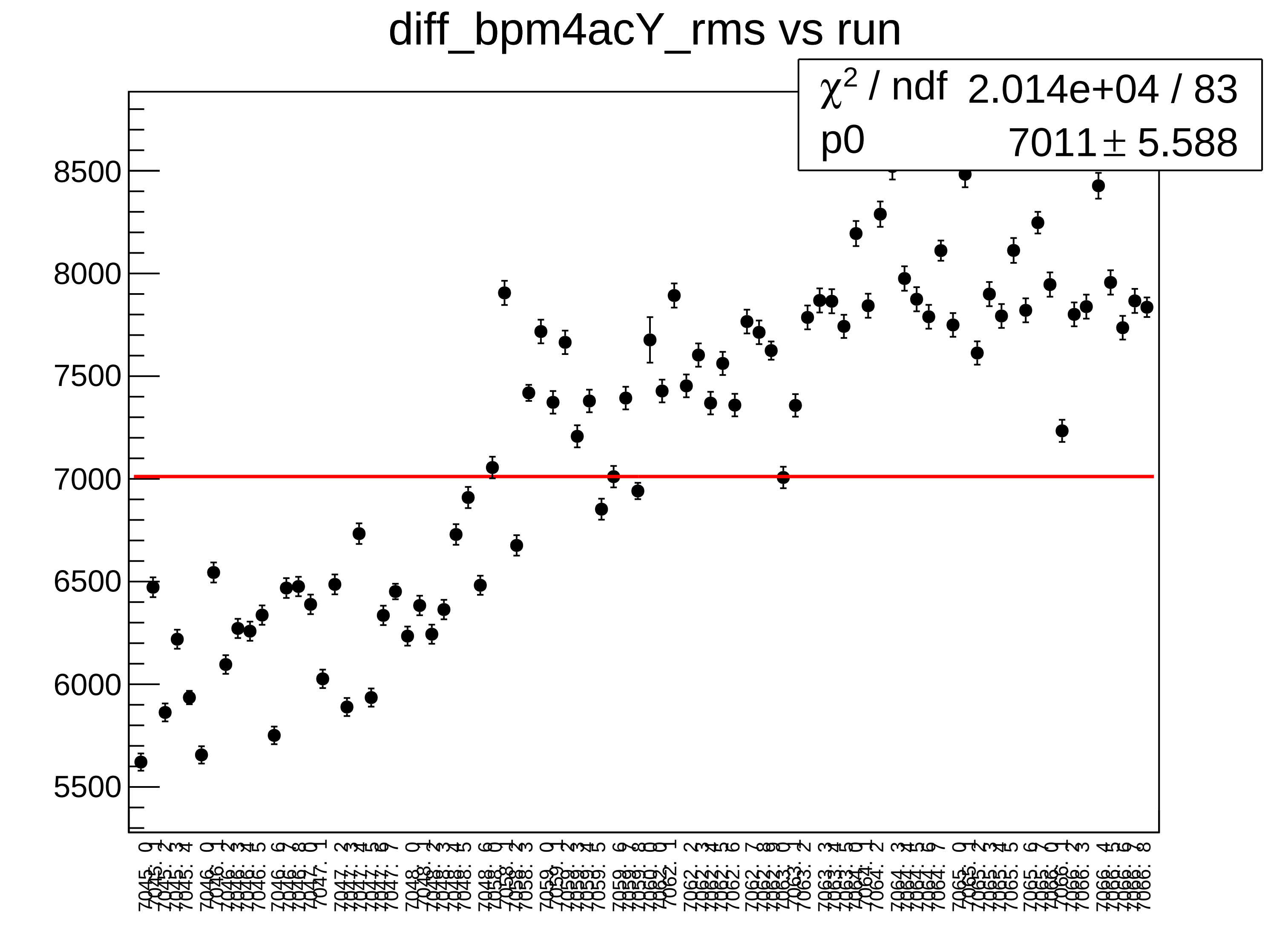
diff_bpm4acX_mean vs run
$\chi^2$ / ndf 65.38 / 83
p0 −14.89 ± 9.571
pull
Entries 84
Mean −213.7
Std Dev 248
pull1D
Entries 84
Mean 0.01428
Std Dev 0.8821



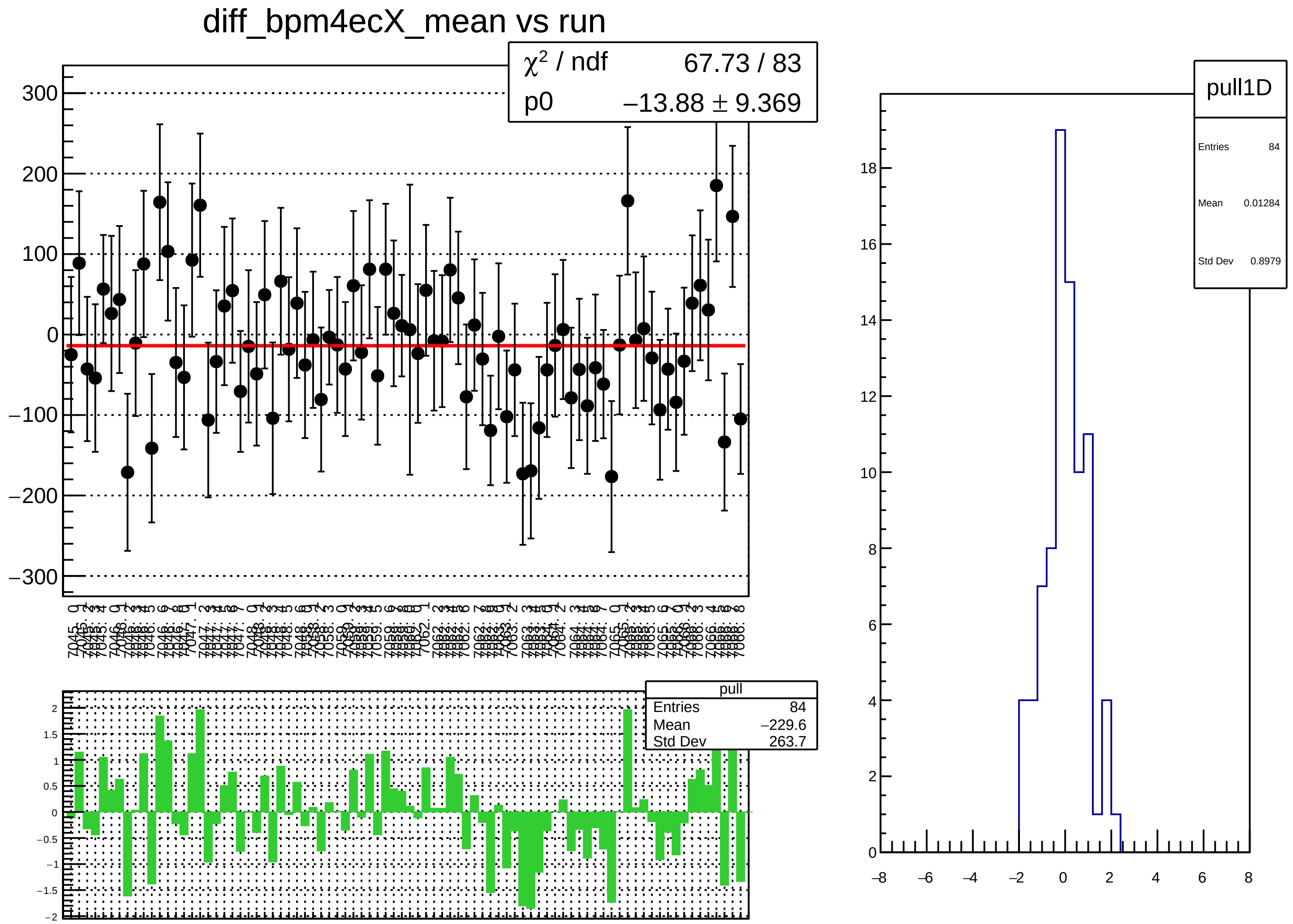
diff_bpm4acX_rms vs run
$\chi^2$ / ndf 3465 / 83
p0 8537 ± 6.768
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800



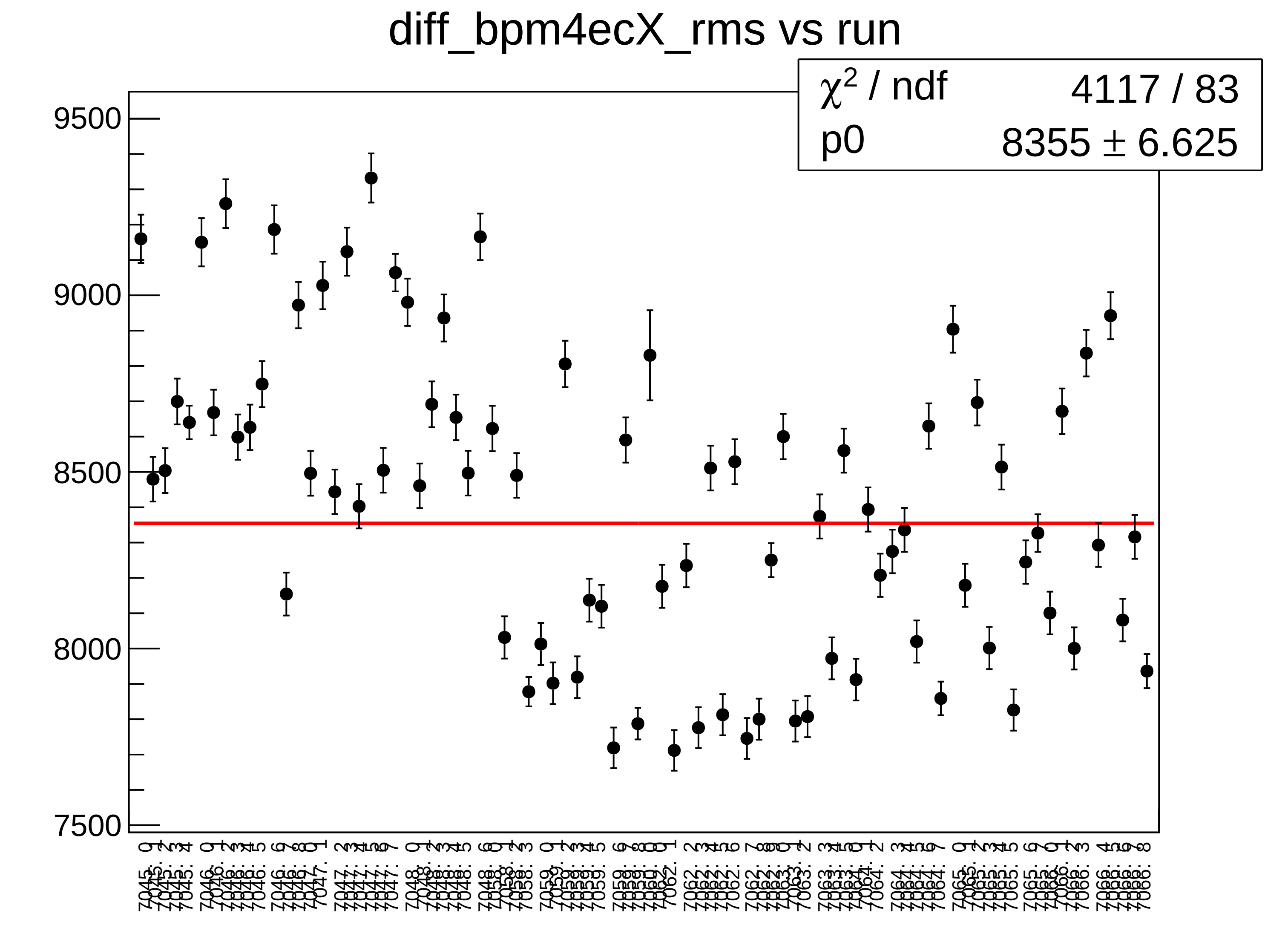
diff_bpm4acY_mean vs run
$\chi^2$ / ndf 99.06 / 83
p0 9.618 ± 7.902
pull
Entries 84
Mean 256.9
Std Dev 214.1
pull1D
Entries 84
Mean 0.02298
Std Dev 1.086



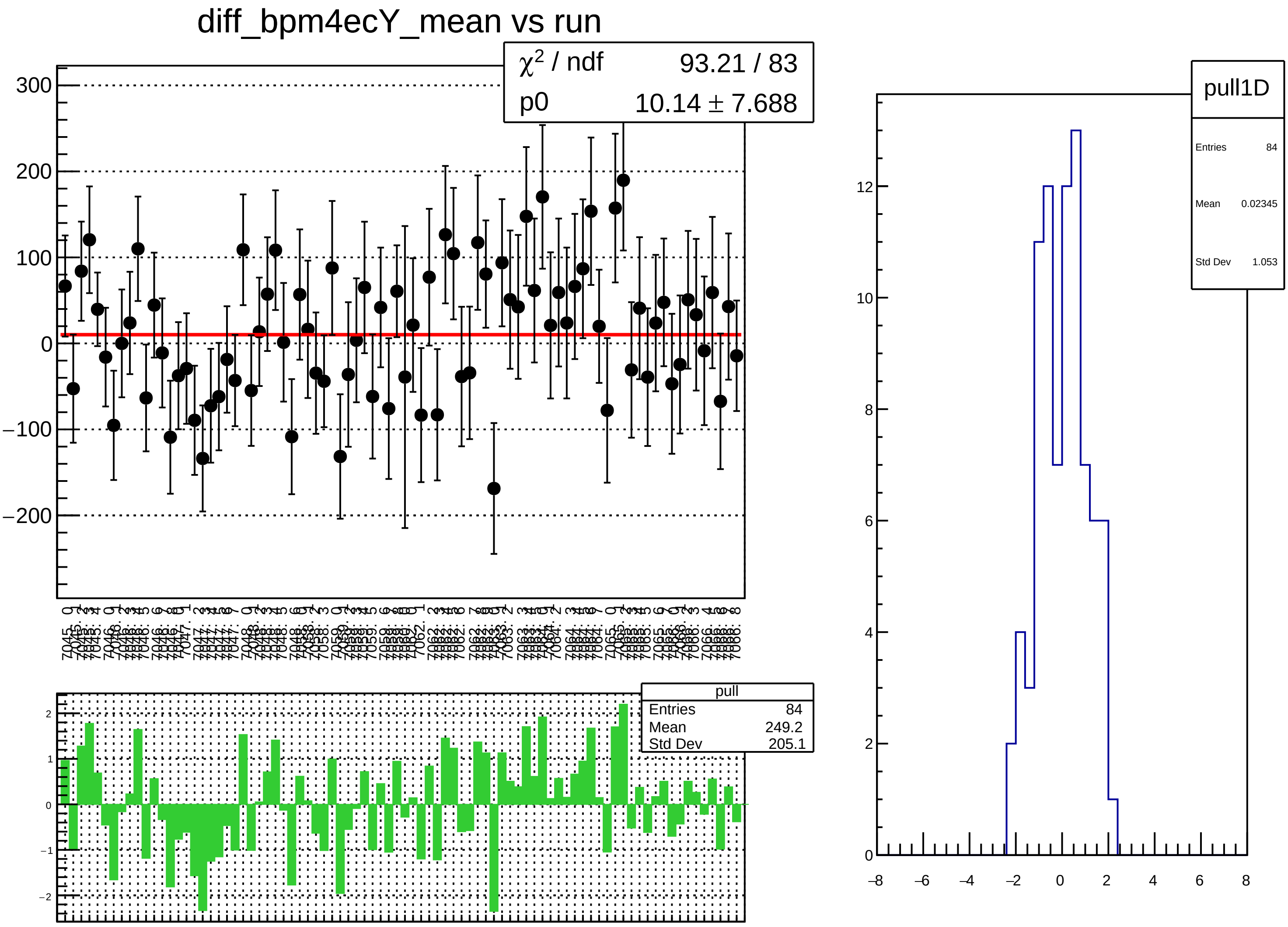
diff_bpm4acY_rms vs run
$\chi^2$ / ndf 2.014e+04 / 83
p0 7011 ± 5.588
8500
8000
7500
7000
6500
6000
5500



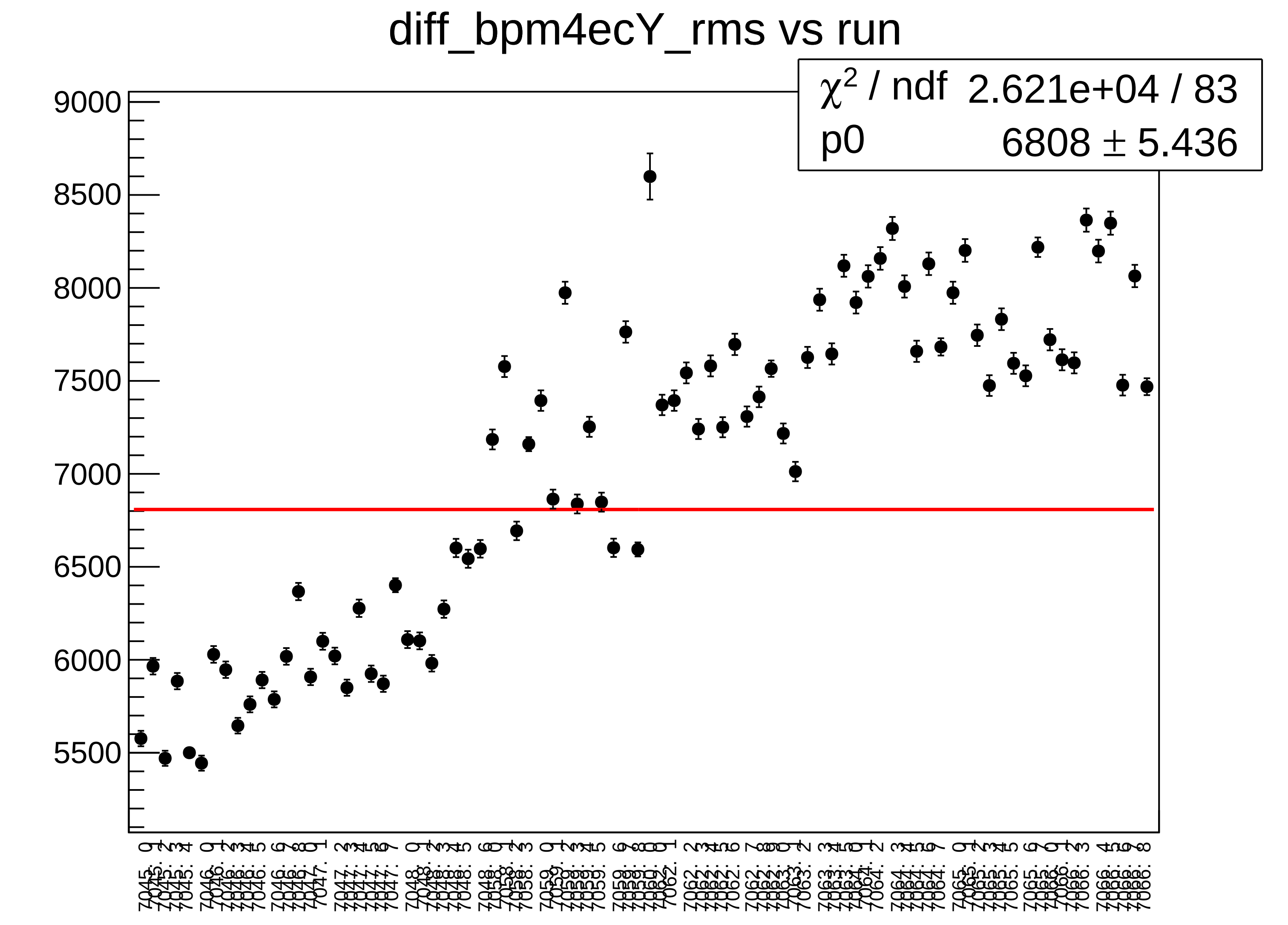
diff_bpm4ecX_mean vs run
$\chi^2$ / ndf 67.73 / 83
p0 −13.88 ± 9.369
pull
Entries 84
Mean −229.6
Std Dev 263.7
pull1D
Entries 84
Mean 0.01284
Std Dev 0.8979



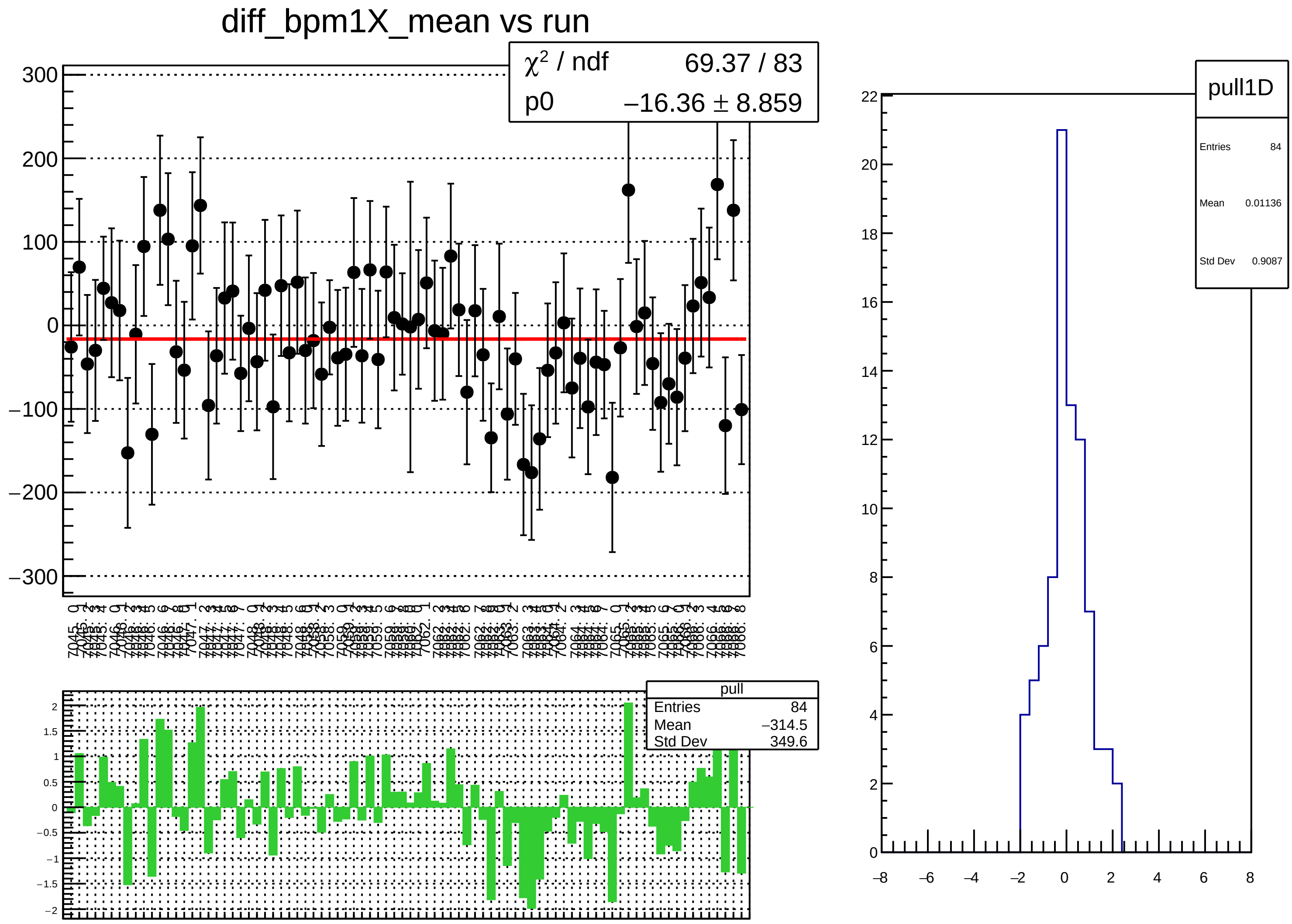
diff_bpm4ecX_rms vs run
$\chi^2$ / ndf 4117 / 83
p0 8355 ± 6.625
9500
9000
8500
8000
7500



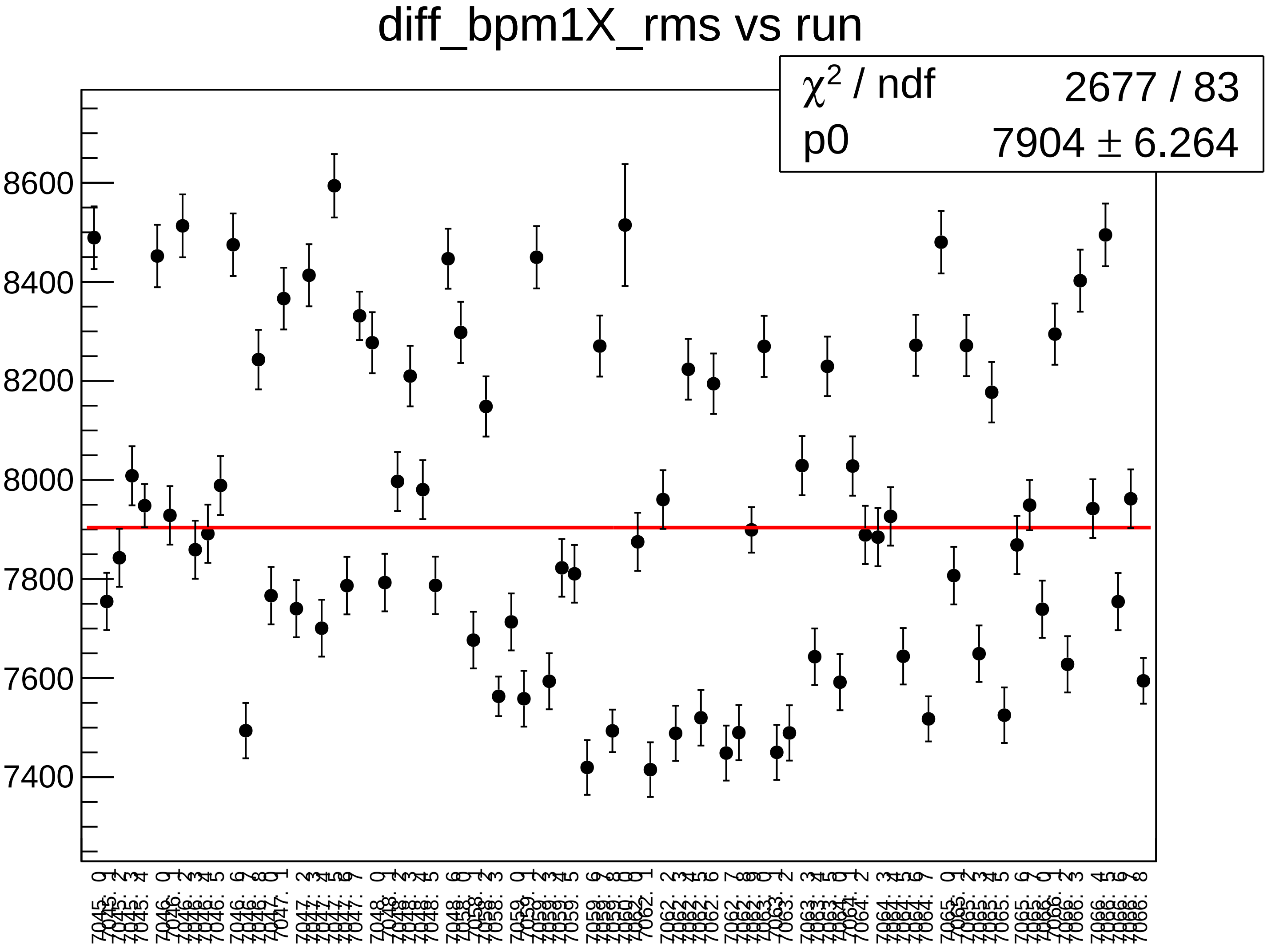
diff_bpm4ecY_mean vs run
$\chi^2$ / ndf 93.21 / 83
p0 10.14 ± 7.688
300
200
100
0
−100
−200
pull
Entries 84
Mean 249.2
Std Dev 205.1
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.02345
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



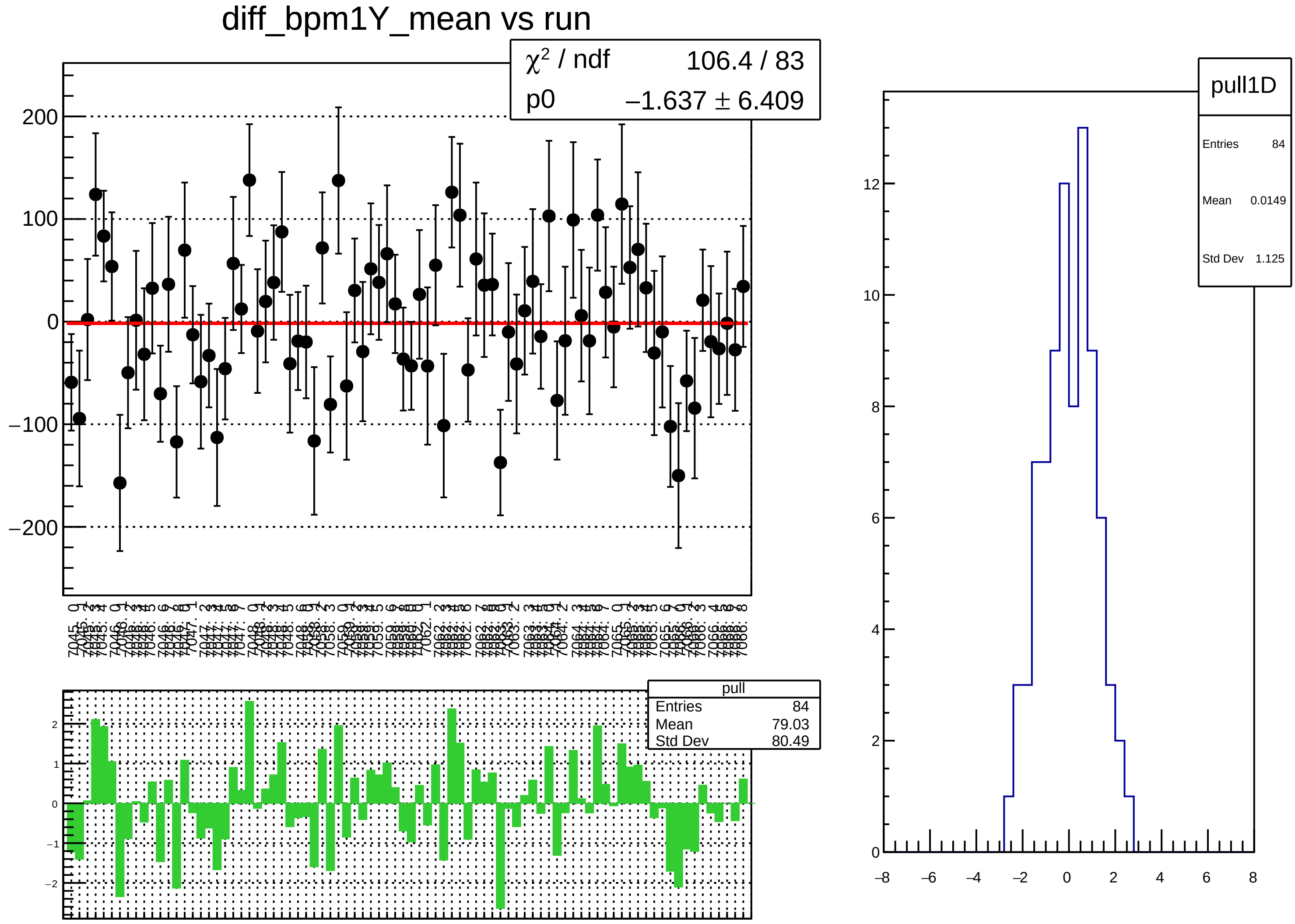
diff_bpm4ecY_rms vs run
$\chi^2$ / ndf 2.621e+04 / 83
p0 6808 ± 5.436
9000
8500
8000
7500
7000
6500
6000
5500

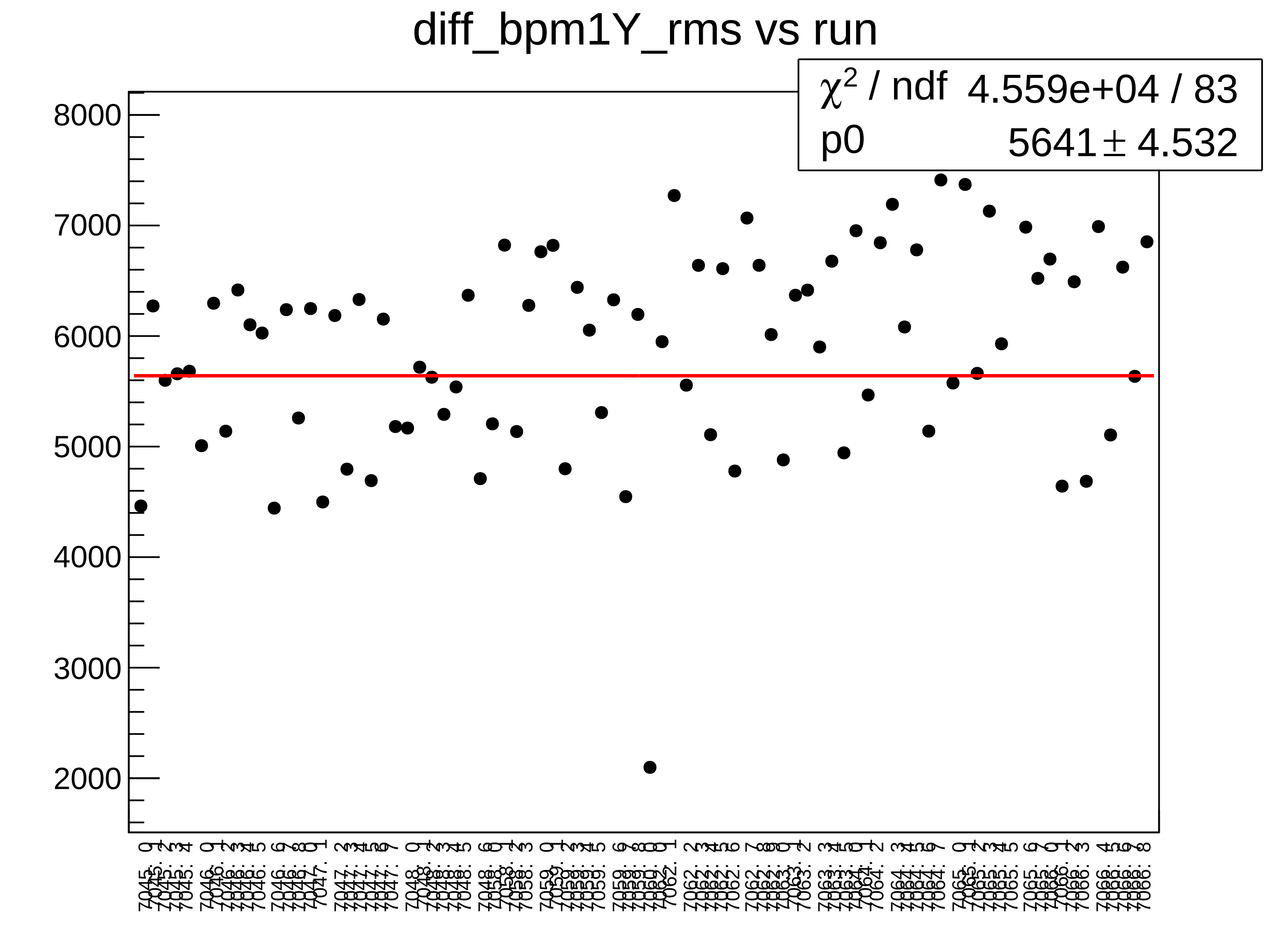


diff_bpm1X_mean vs run
$\chi^2$ / ndf 69.37 / 83
p0 −16.36 ± 8.859
pull
Entries 84
Mean −314.5
Std Dev 349.6
pull1D
Entries 84
Mean 0.01136
Std Dev 0.9087

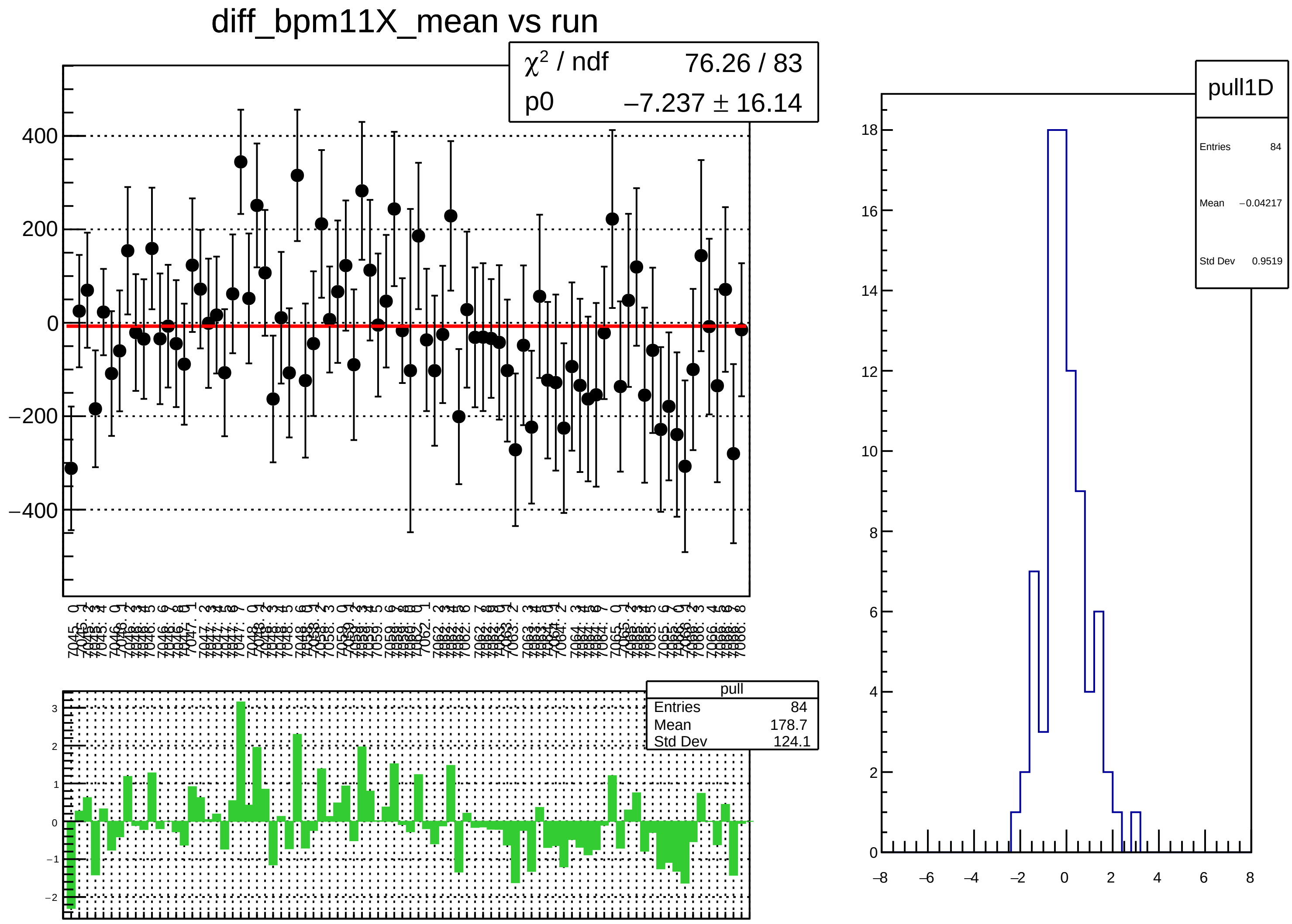


diff_bpm1X_rms vs run
$\chi^2$ / ndf 2677 / 83
p0 7904 ± 6.264
8600
8400
8200
8000
7800
7600
7400

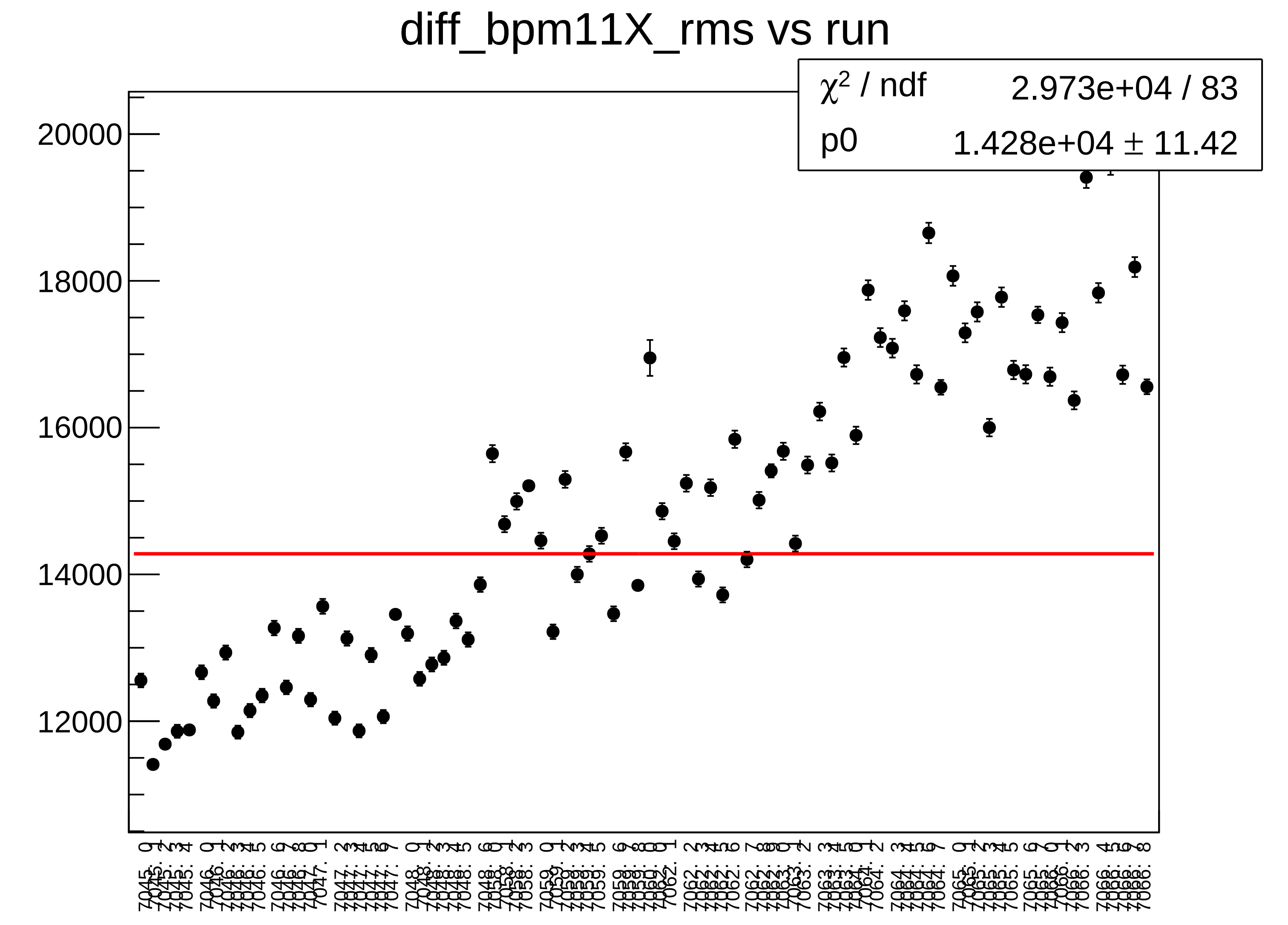

diff_bpm1Y_mean vs run
χ2 / ndf 106.4 / 83
p0 −1.637 ± 6.409
200
100
0
−100
−200
pull
Entries 84
Mean 79.03
Std Dev 80.49
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.0149
Std Dev 1.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

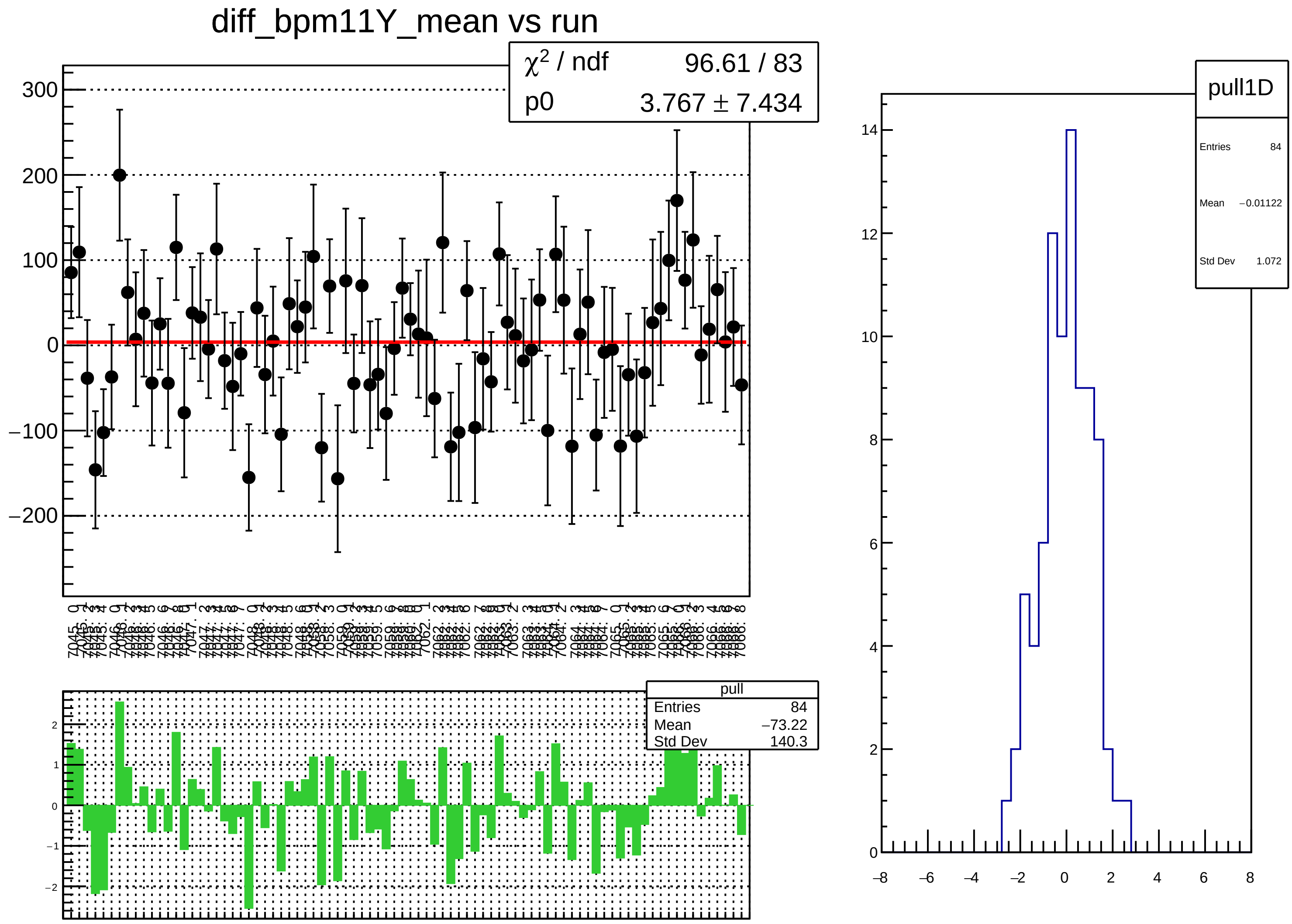


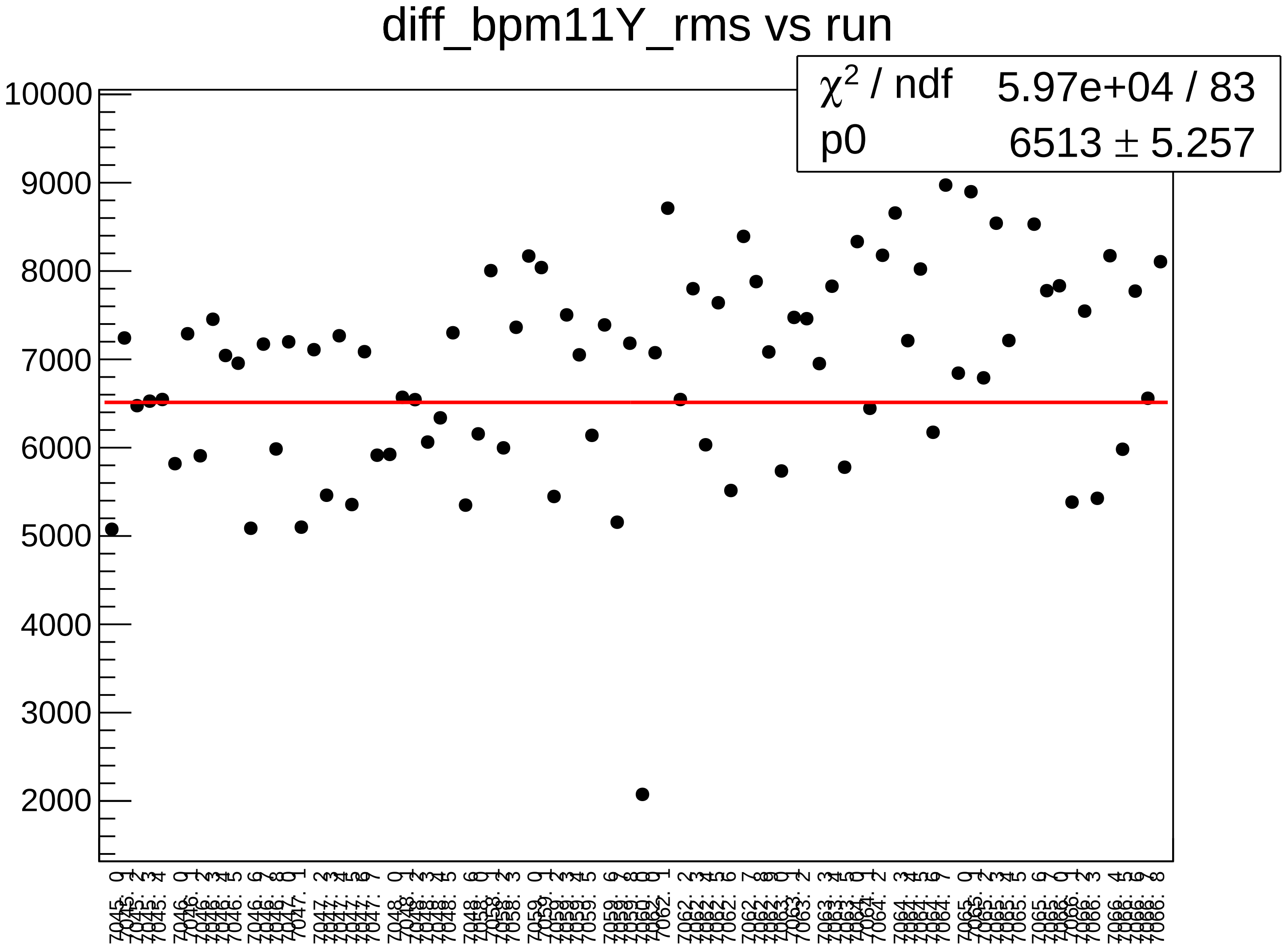
diff_bpm1Y_rms vs run
$\chi^2$ / ndf 4.559e+04 / 83
p0 5641 ± 4.532
8000
7000
6000
5000
4000
3000
2000

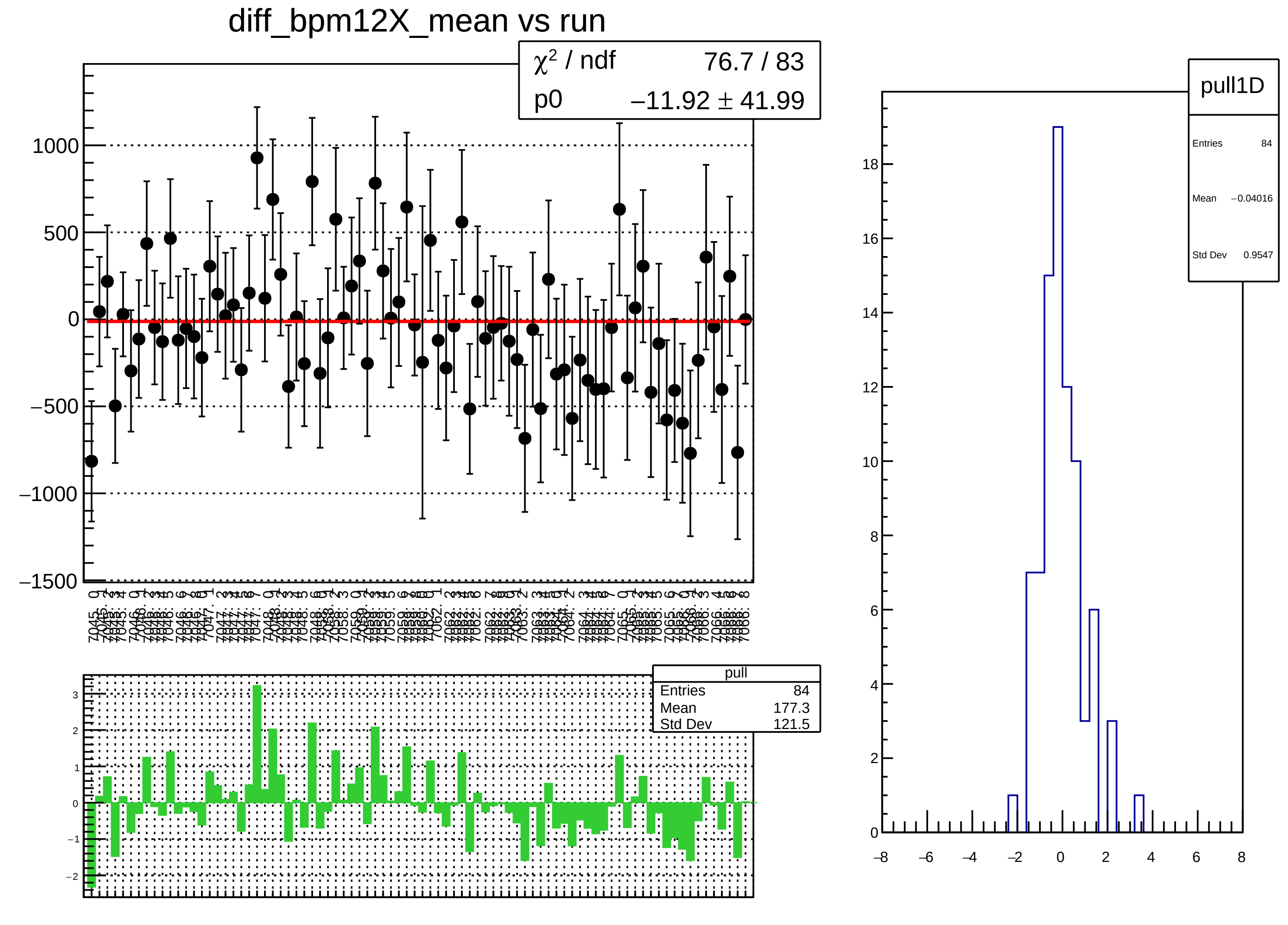


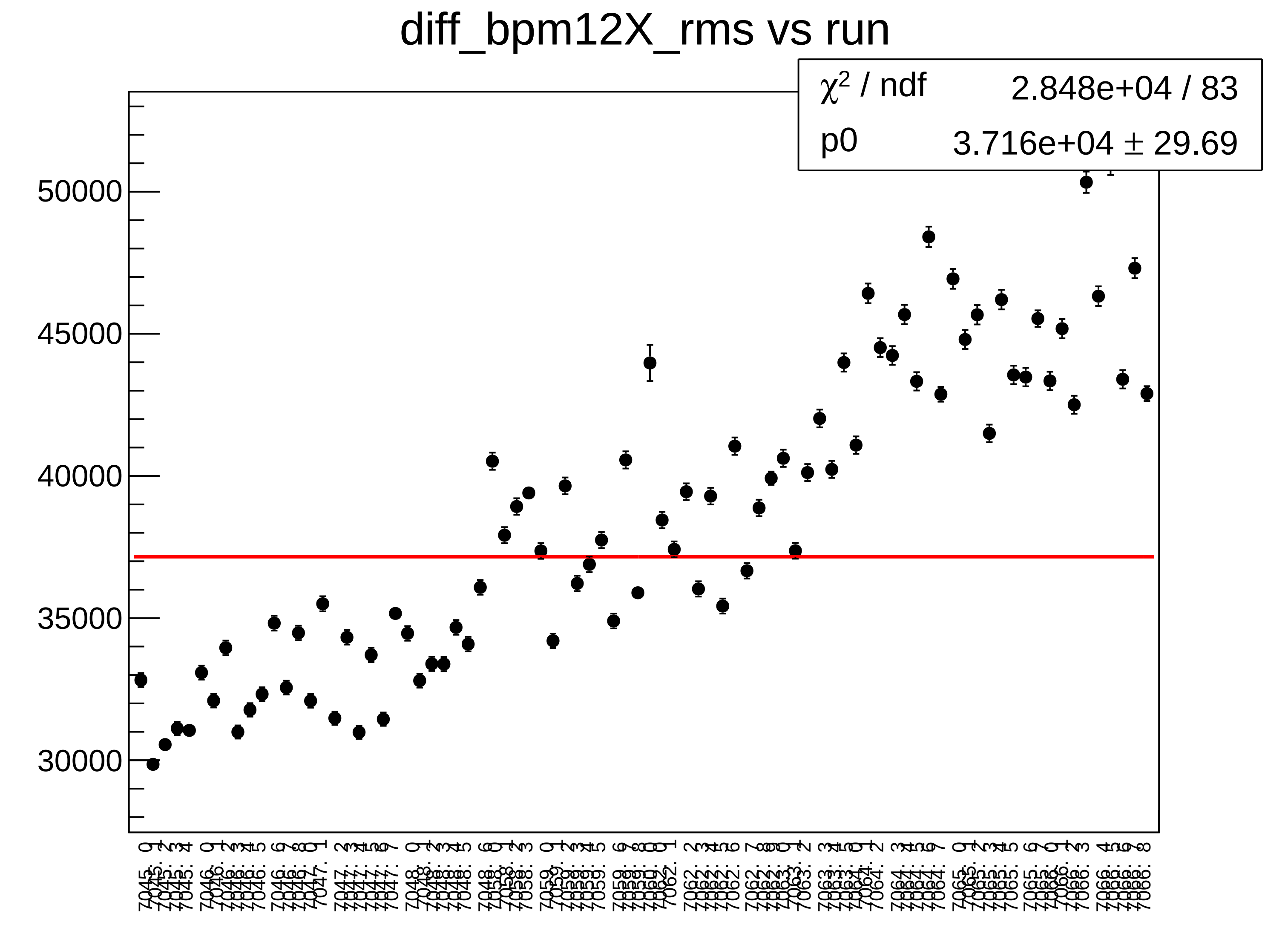
diff_bpm11X_mean vs run
χ2 / ndf 76.26 / 83
p0 −7.237 ± 16.14
pull
Entries 84
Mean 178.7
Std Dev 124.1
pull1D
Entries 84
Mean −0.04217
Std Dev 0.9519

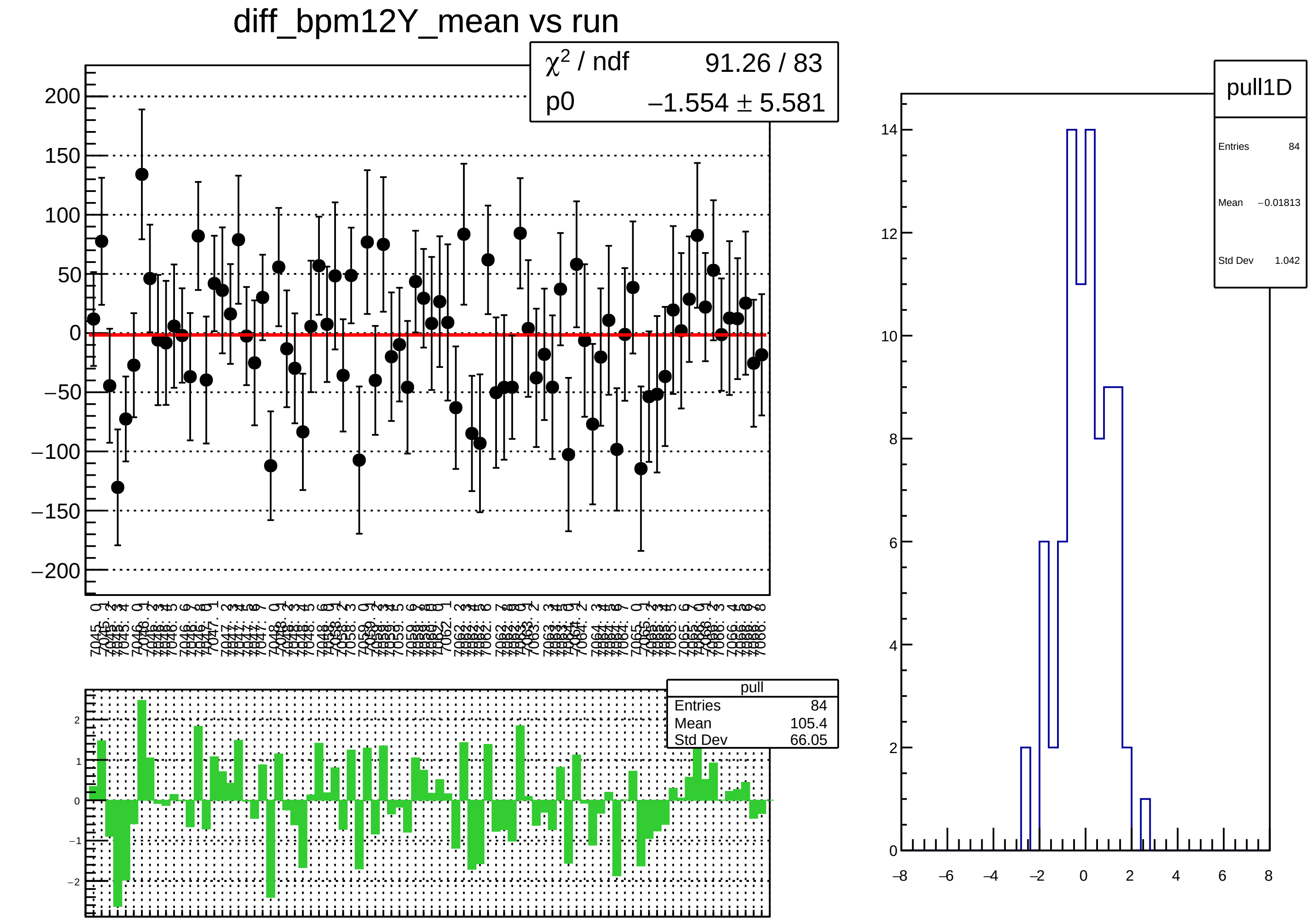

diff_bpm11X_rms vs run
$\chi^2$ / ndf 2.973e+04 / 83
p0 1.428e+04 ± 11.42
20000
18000
16000
14000
12000

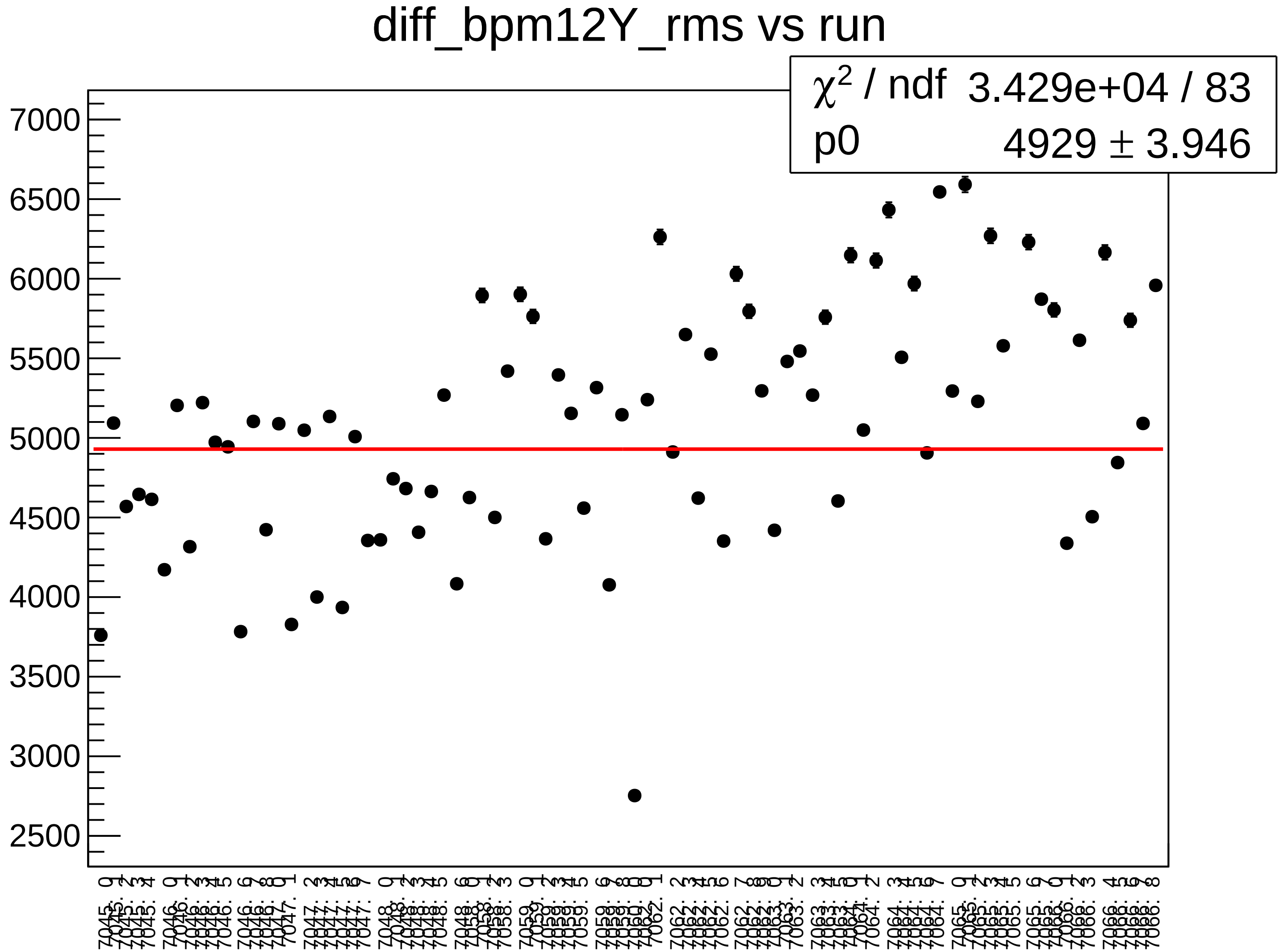

diff_bpm11Y_mean vs run
$\chi^2$ / ndf 96.61 / 83
p0 3.767 ± 7.434
pull
Entries 84
Mean −73.22
Std Dev 140.3
pull1D
Entries 84
Mean −0.01122
Std Dev 1.072


diff_bpm11Y_rms vs run
χ2 / ndf 5.97e+04 / 83
p0 6513 ± 5.257
10000
9000
8000
7000
6000
5000
4000
3000
2000

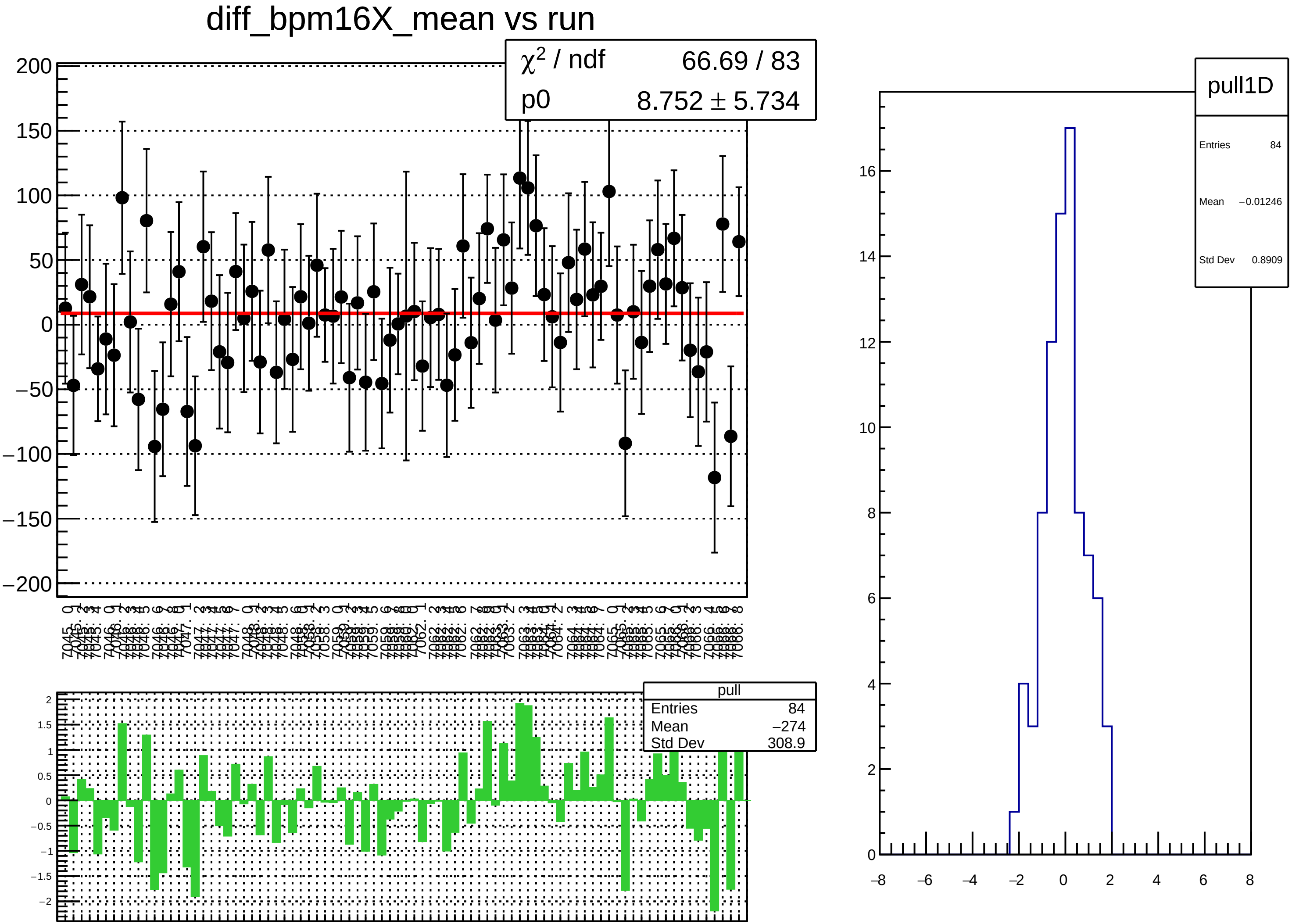

diff_bpm12X_mean vs run
χ2 / ndf 76.7 / 83
p0 −11.92 ± 41.99
pull
Entries 84
Mean 177.3
Std Dev 121.5
pull1D
Entries 84
Mean −0.04016
Std Dev 0.9547


diff_bpm12X_rms vs run
χ2 / ndf 2.848e+04 / 83
p0 3.716e+04 ± 29.69
50000
45000
40000
35000
30000

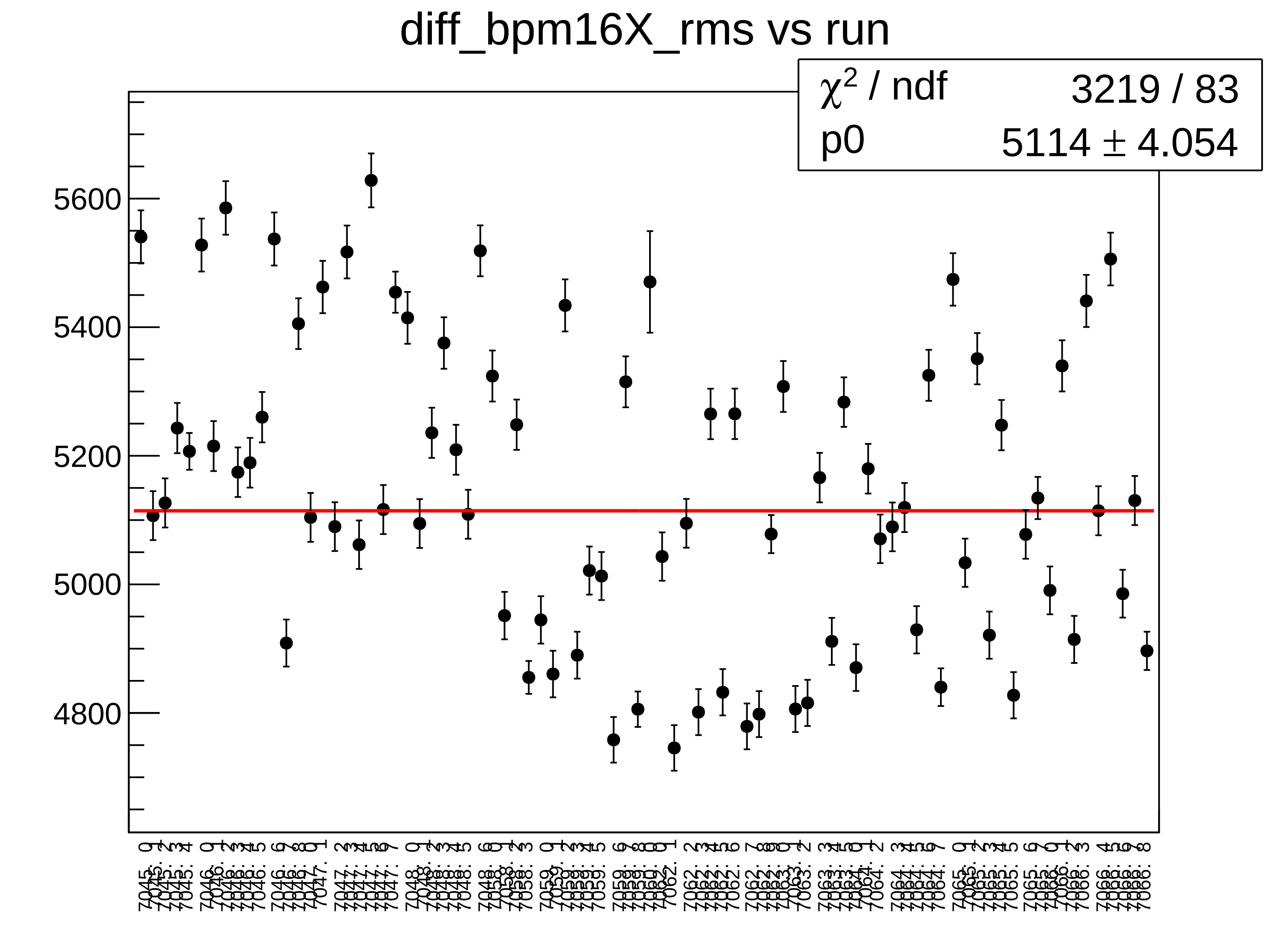

diff_bpm12Y_mean vs run
$\chi^2$ / ndf 91.26 / 83
p0 −1.554 ± 5.581
pull
Entries 84
Mean 105.4
Std Dev 66.05
pull1D
Entries 84
Mean −0.01813
Std Dev 1.042

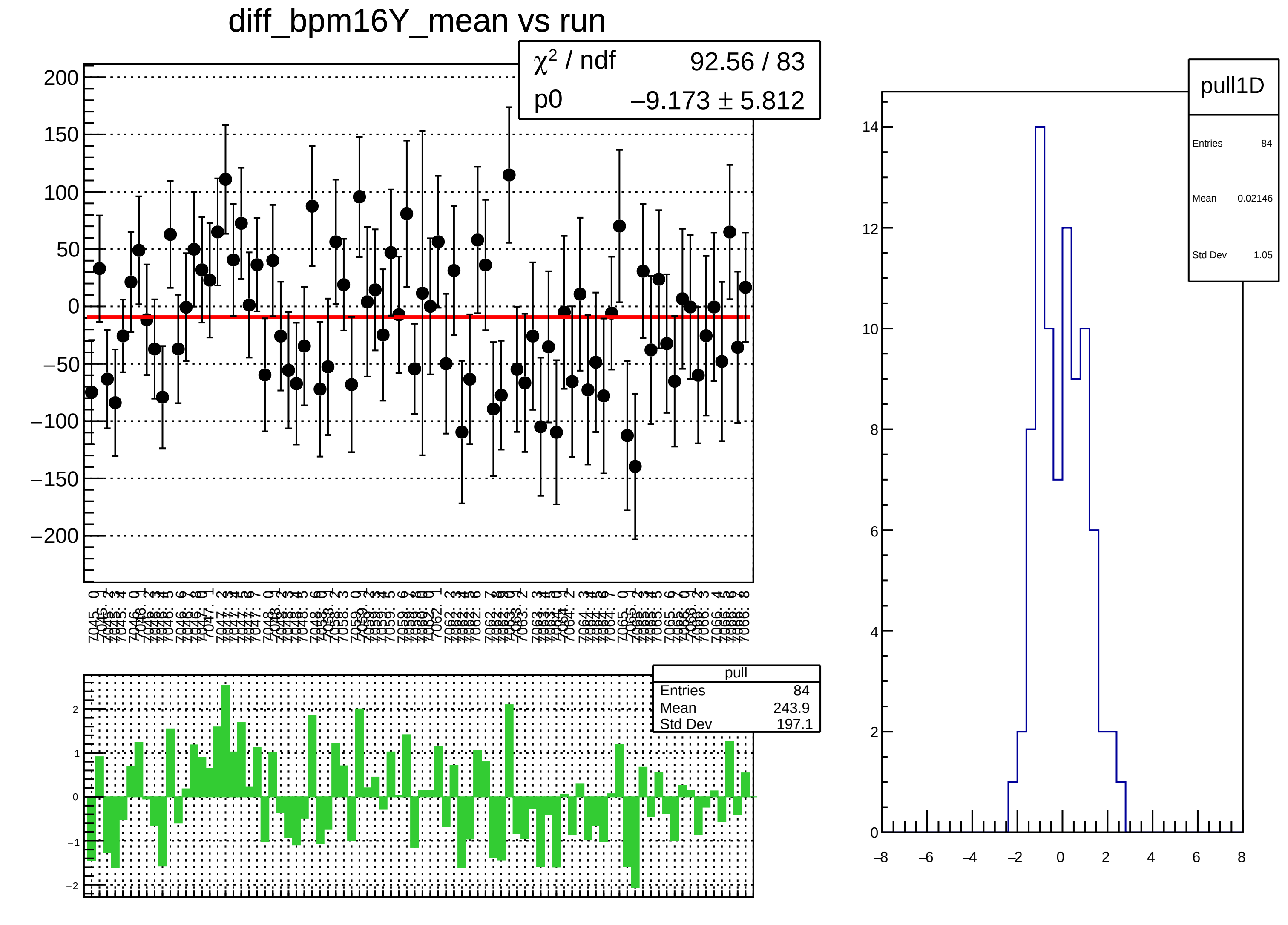


diff_bpm12Y_rms vs run
$\chi^2$ / ndf 3.429e+04 / 83
p0 4929 ± 3.946
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500

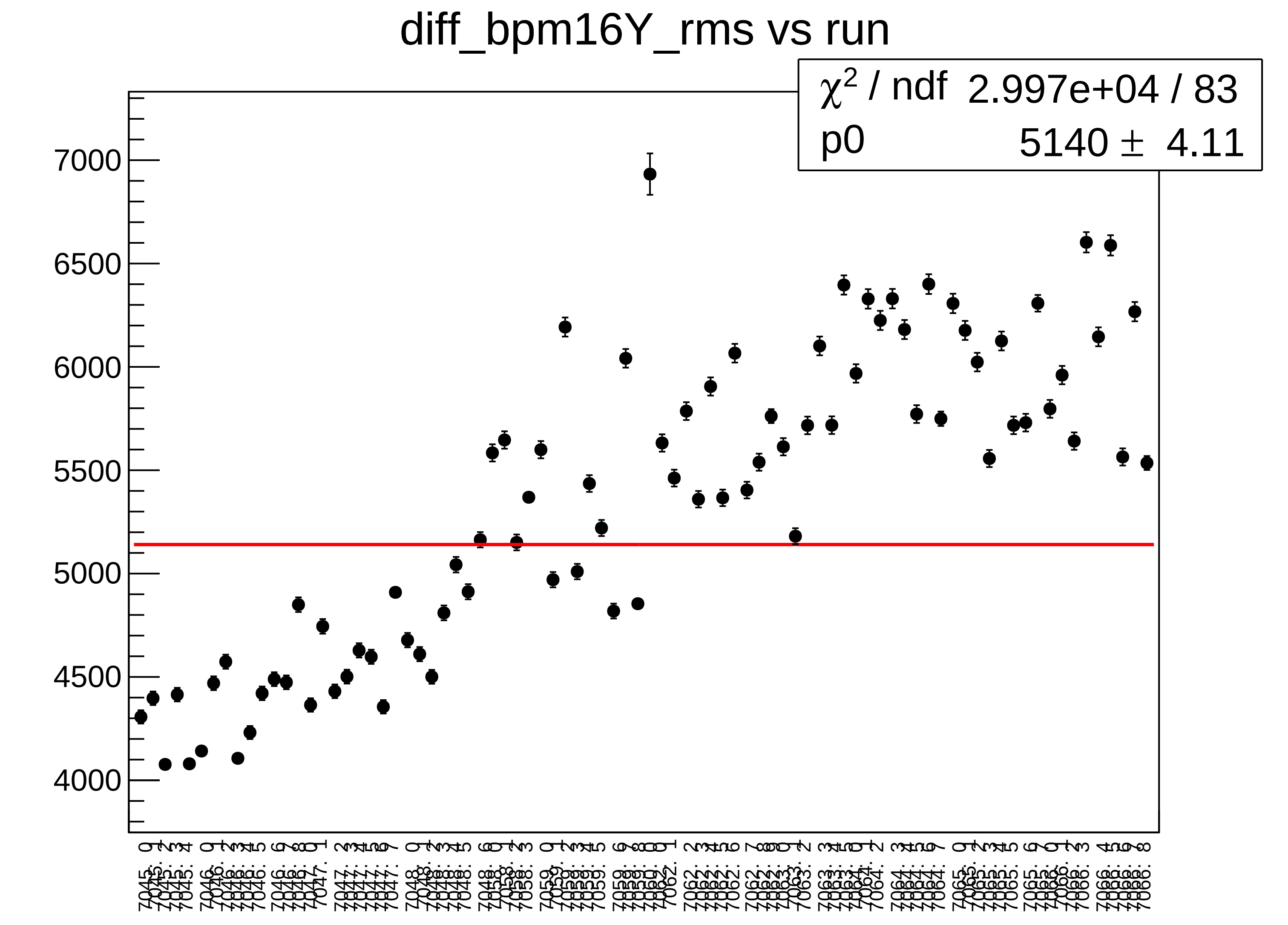


diff_bpm16X_mean vs run
$\chi^2$ / ndf 66.69 / 83
p0 8.752 ± 5.734
pull
Entries 84
Mean −274
Std Dev 308.9
pull1D
Entries 84
Mean −0.01246
Std Dev 0.8909

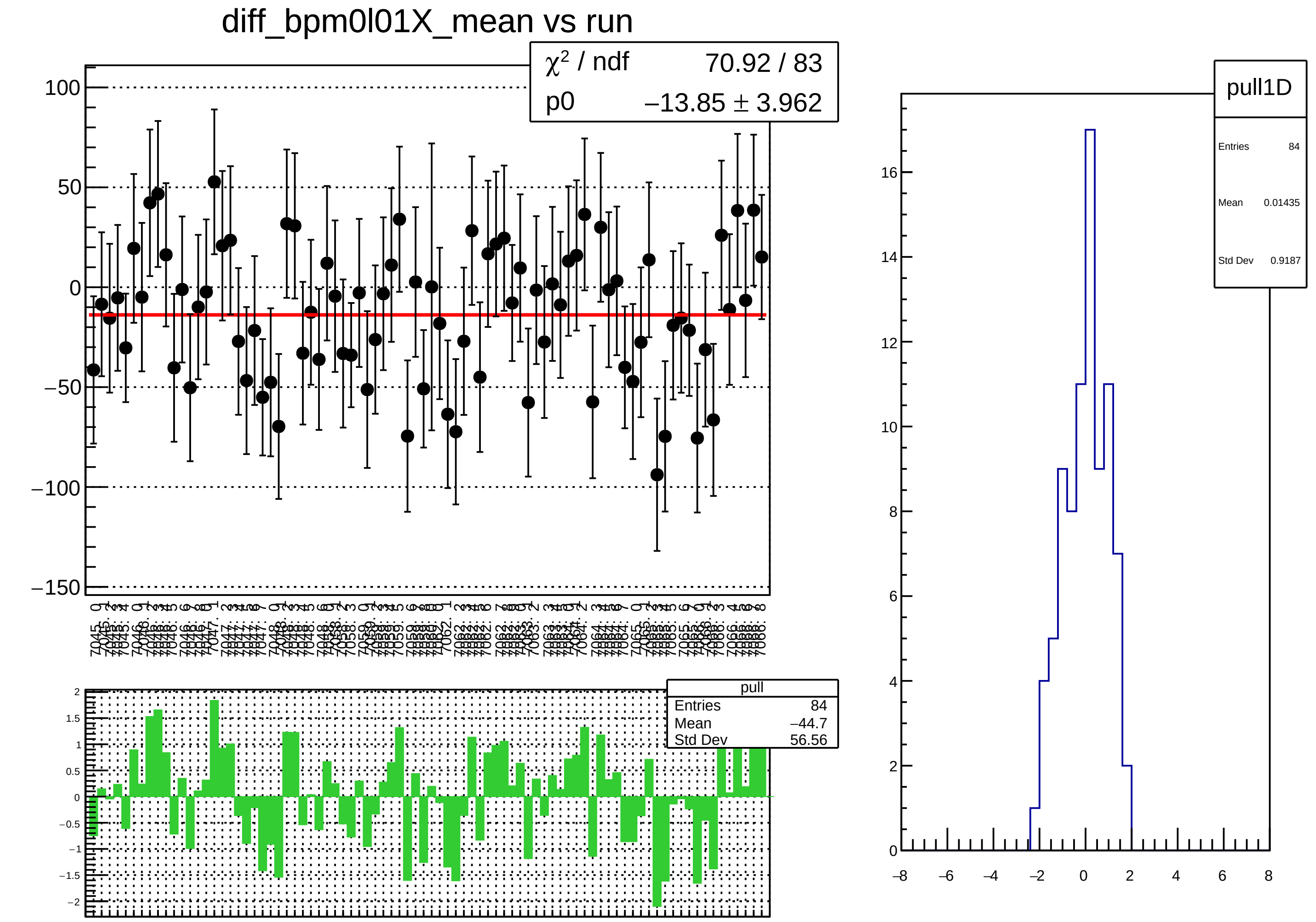

diff_bpm16X_rms vs run
χ2 / ndf 3219 / 83
p0 5114 ± 4.054
5600
5400
5200
5000
4800



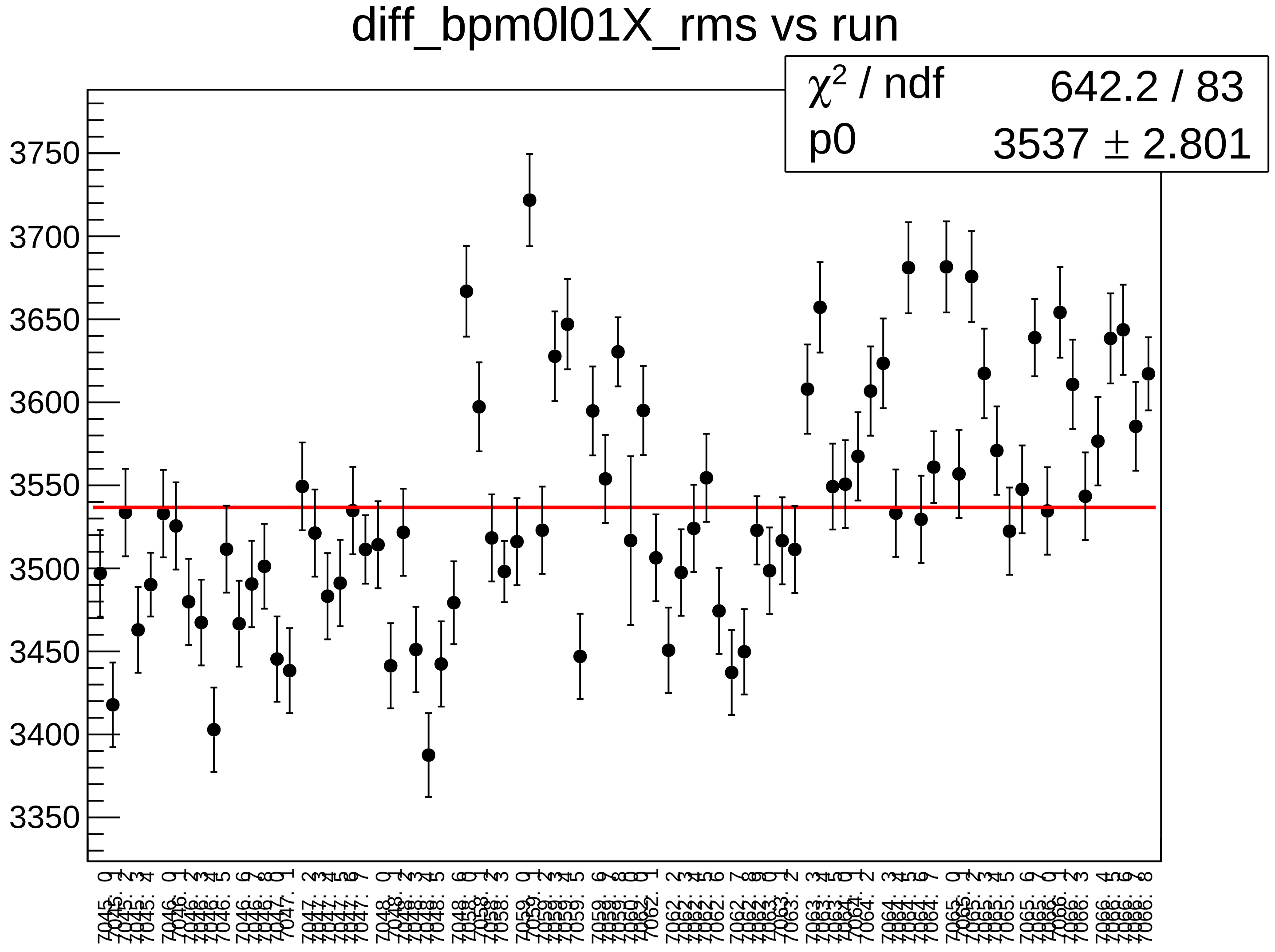
diff_bpm16Y_mean vs run
χ² / ndf 92.56 / 83
p0 −9.173 ± 5.812
pull
Entries 84
Mean 243.9
Std Dev 197.1
pull1D
Entries 84
Mean −0.02146
Std Dev 1.05

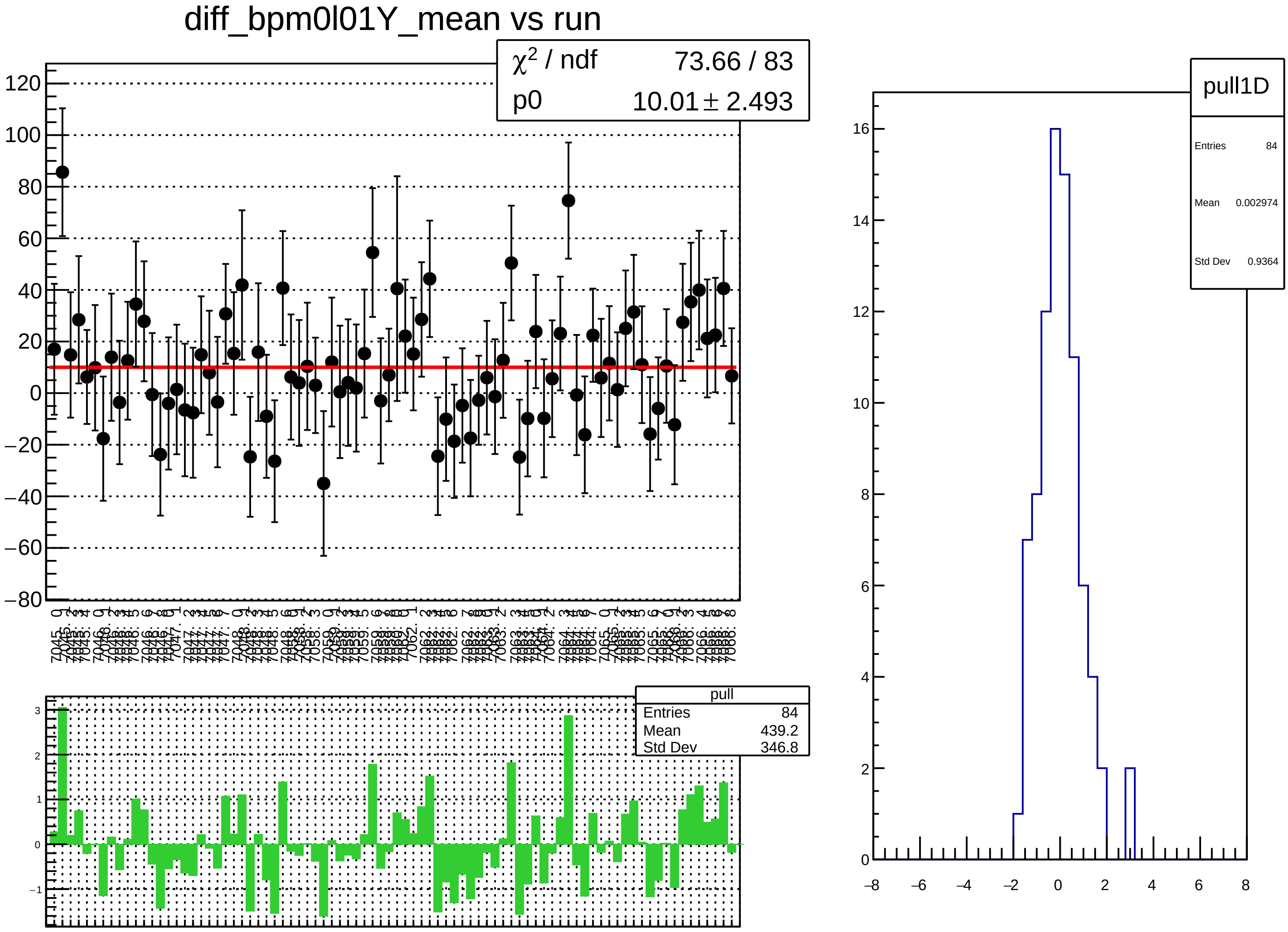


diff_bpm16Y_rms vs run
$\chi^2$ / ndf 2.997e+04 / 83
p0 5140 ± 4.11
7000
6500
6000
5500
5000
4500
4000

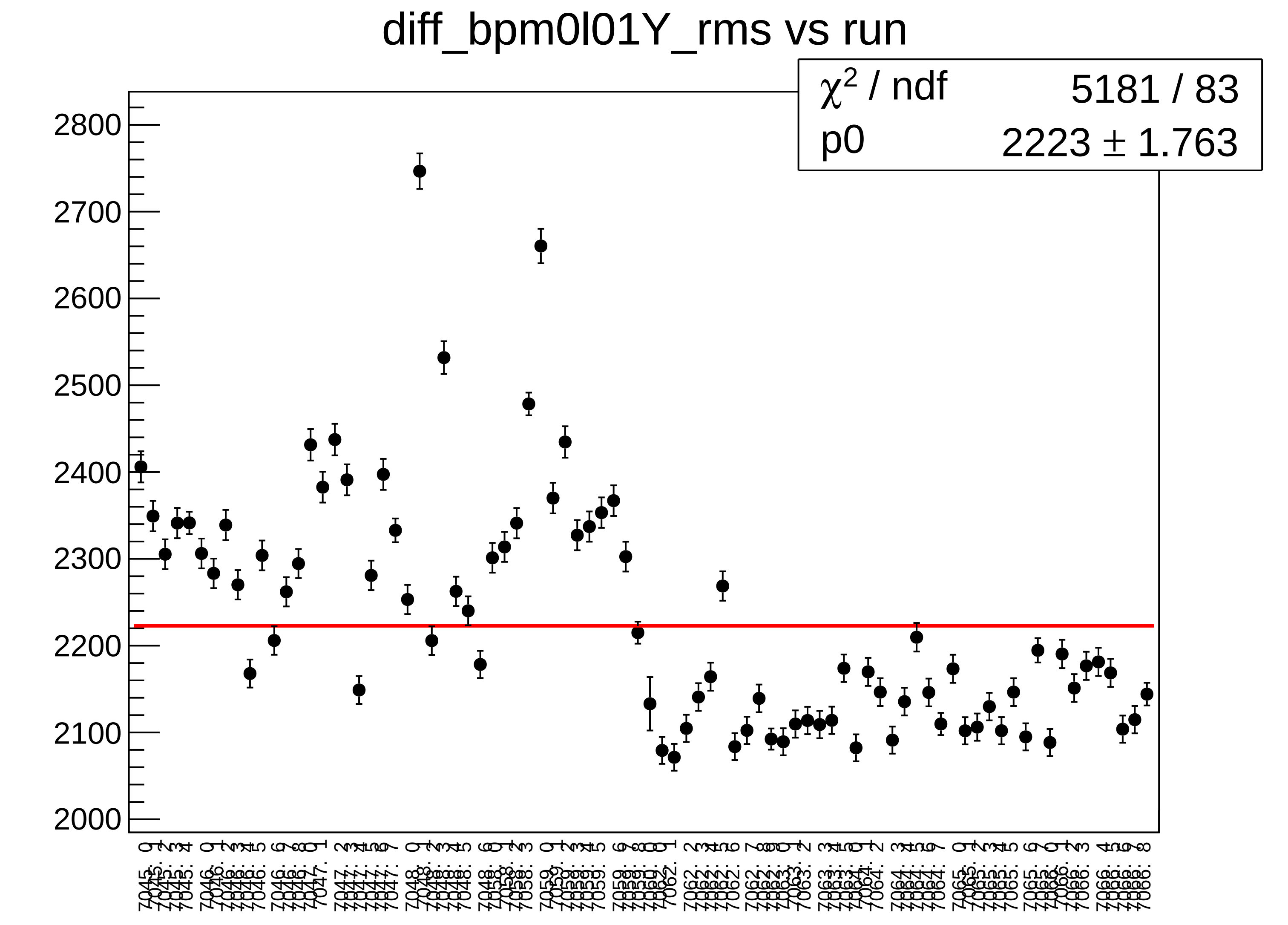


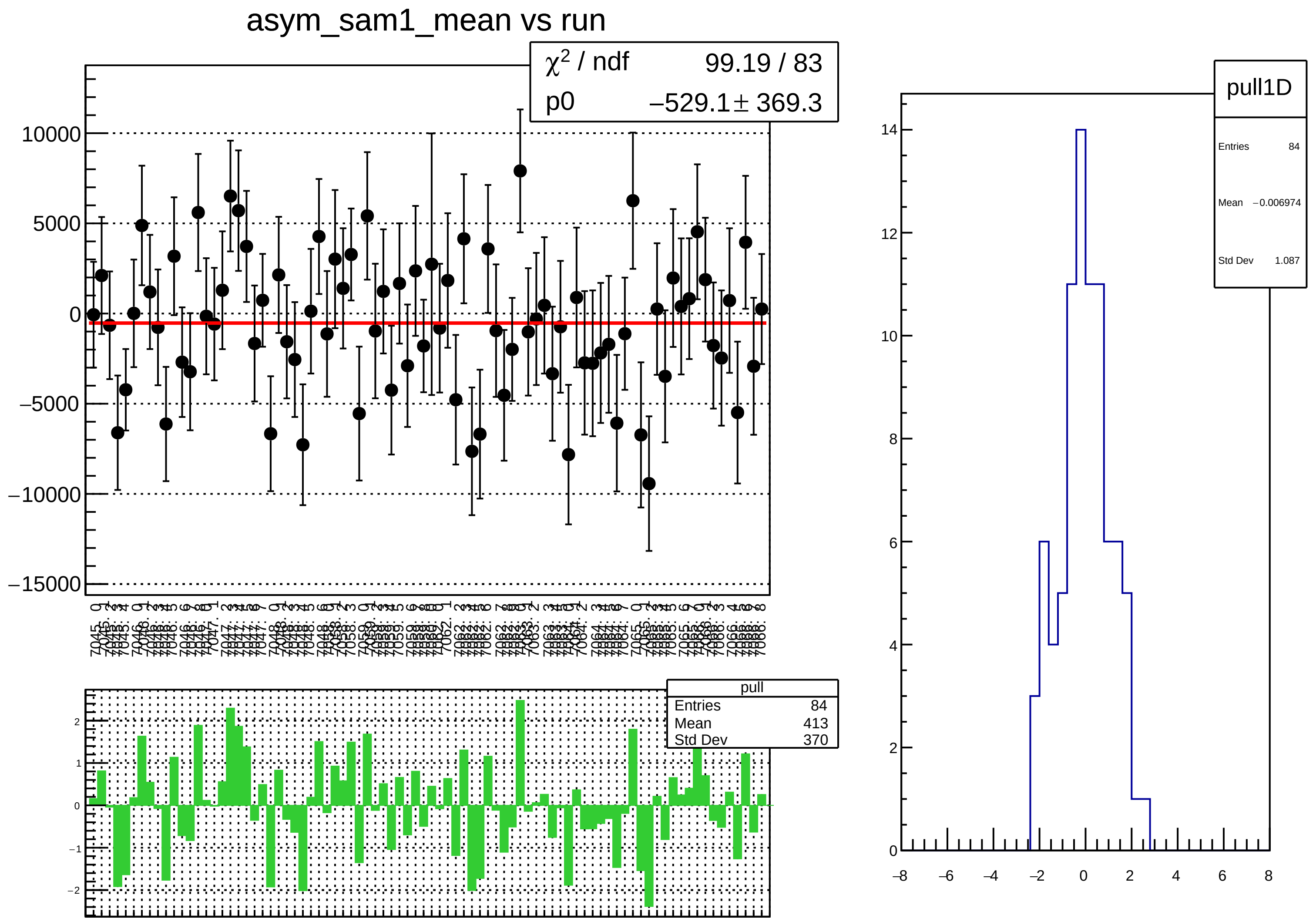
diff_bpm0l01X_mean vs run
$\chi^2$ / ndf 70.92 / 83
p0 −13.85 ± 3.962
pull
Entries 84
Mean −44.7
Std Dev 56.56
pull1D
Entries 84
Mean 0.01435
Std Dev 0.9187


diff_bpm0l01X_rms vs run
$\chi^2$ / ndf 642.2 / 83
p0 3537 ± 2.801
3750
3700
3650
3600
3550
3500
3450
3400
3350

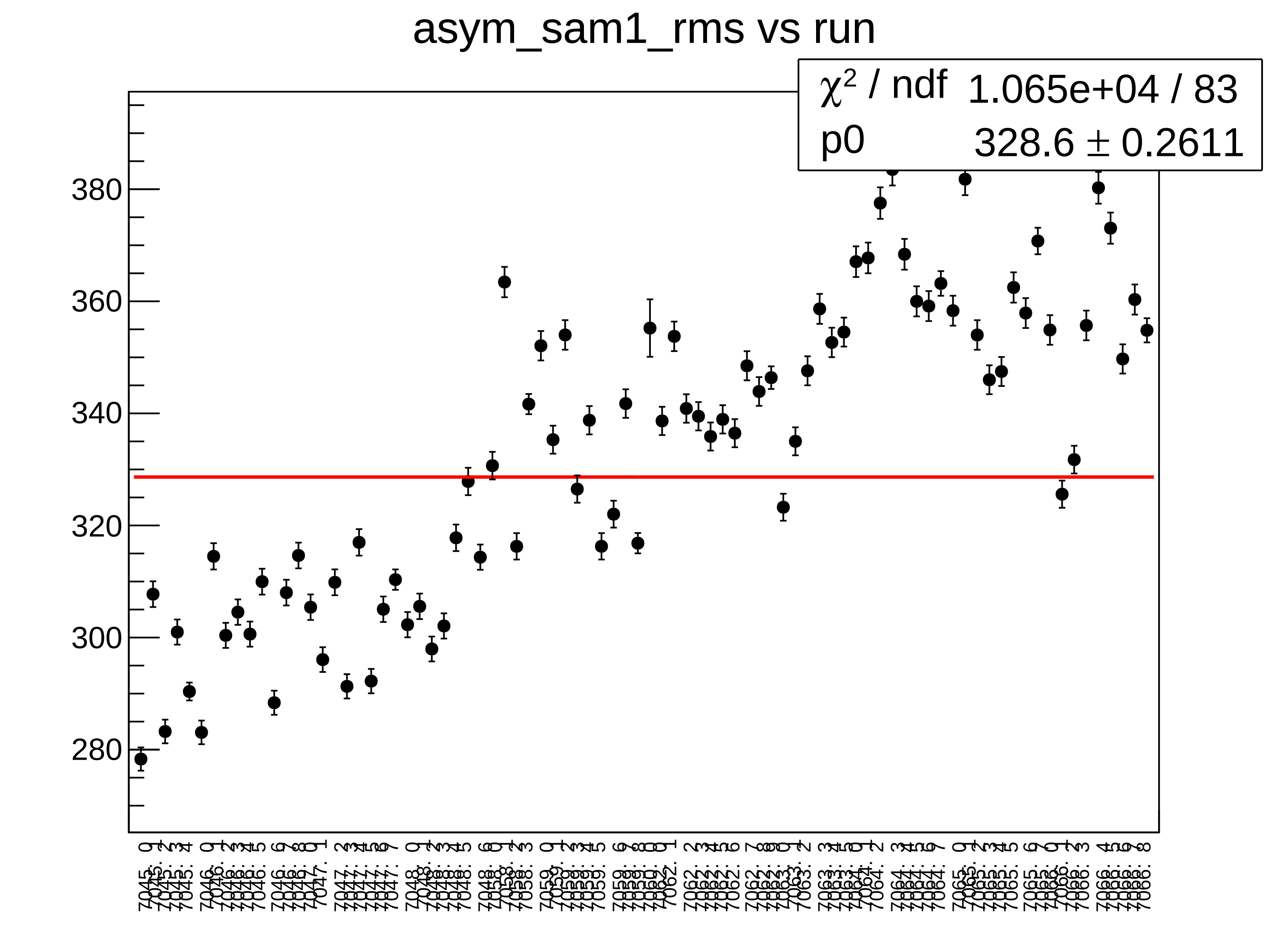


diff_bpm0l01Y_mean vs run
χ2 / ndf 73.66 / 83
p0 10.01 ± 2.493
pull
Entries 84
Mean 439.2
Std Dev 346.8
pull1D
Entries 84
Mean 0.002974
Std Dev 0.9364

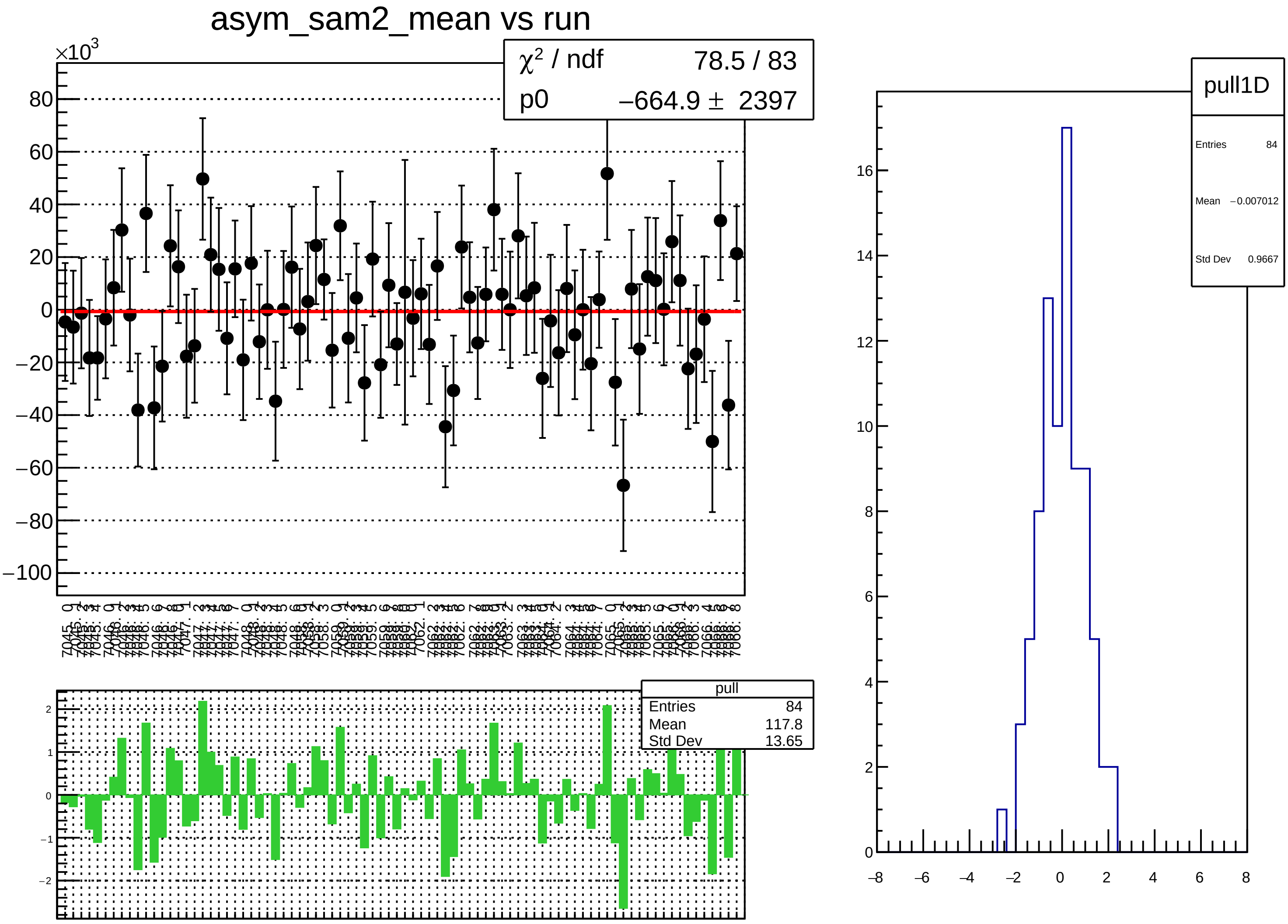

diff_bpm0l01Y_rms vs run
χ2 / ndf 5181 / 83
p0 2223 ± 1.763
2800
2700
2600
2500
2400
2300
2200
2100
2000

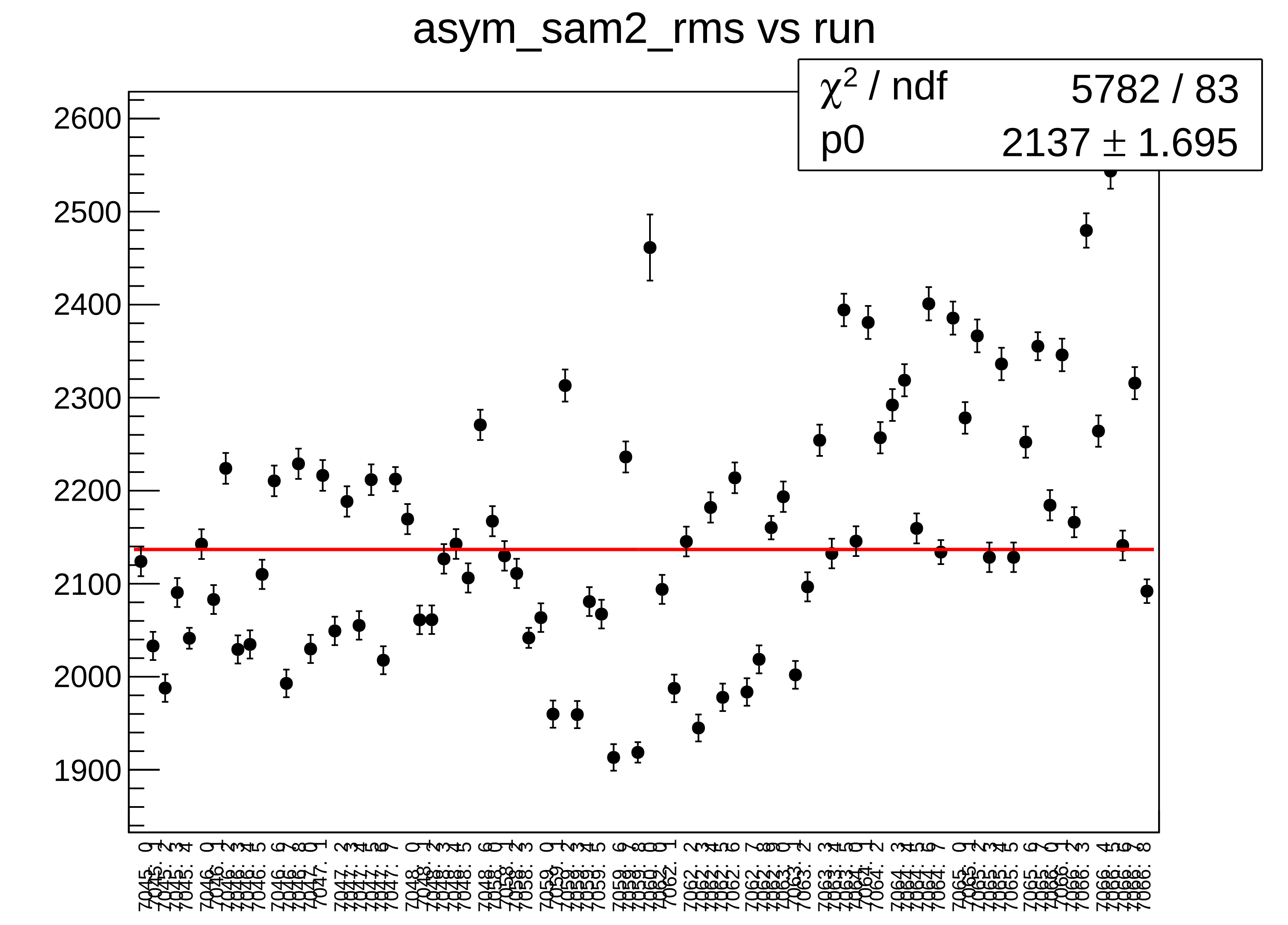


asym_sam1_mean vs run
χ2 / ndf 99.19 / 83
p0 −529.1 ± 369.3
pull
Entries 84
Mean 413
Std Dev 370
pull1D
Entries 84
Mean −0.006974
Std Dev 1.087

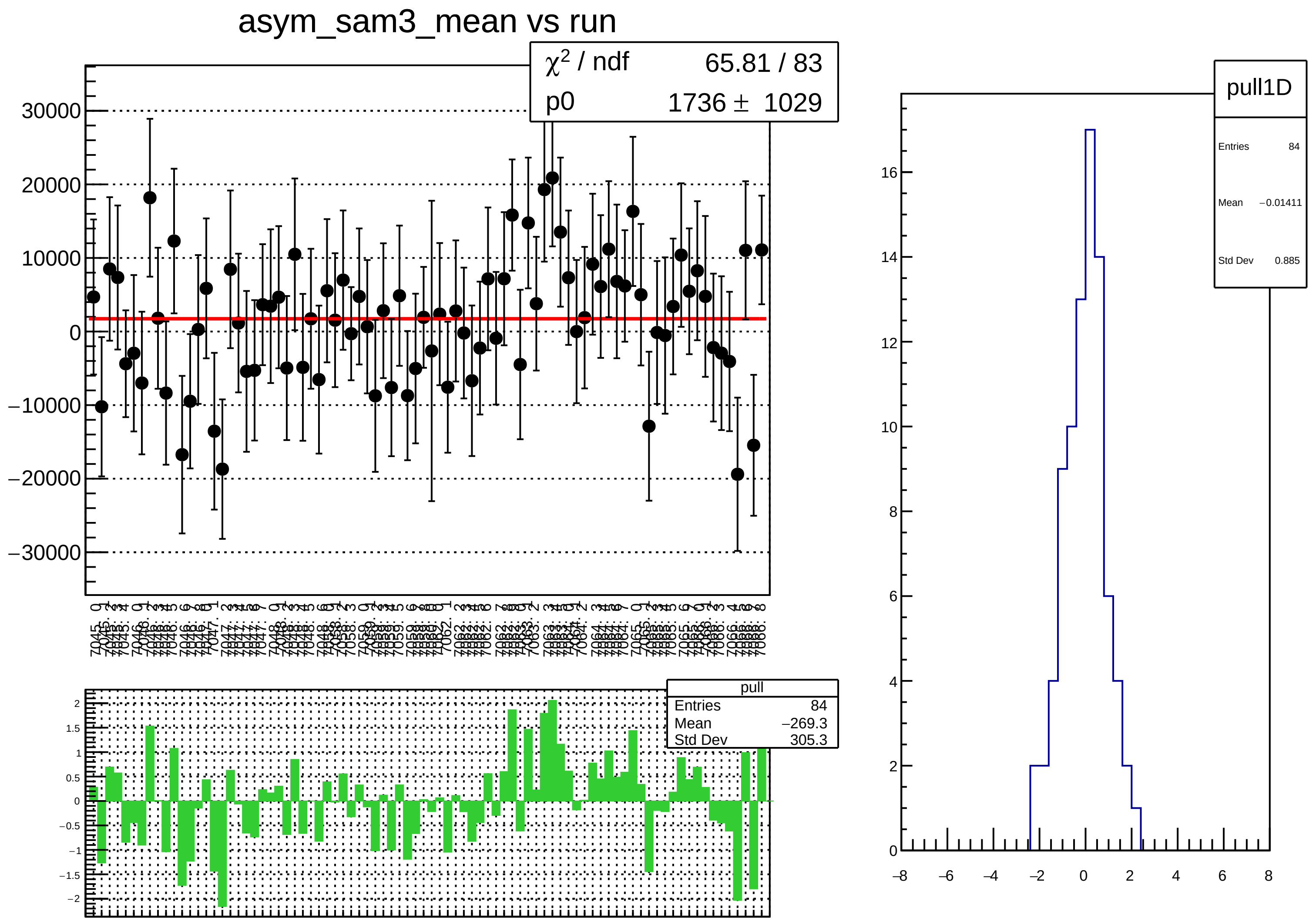


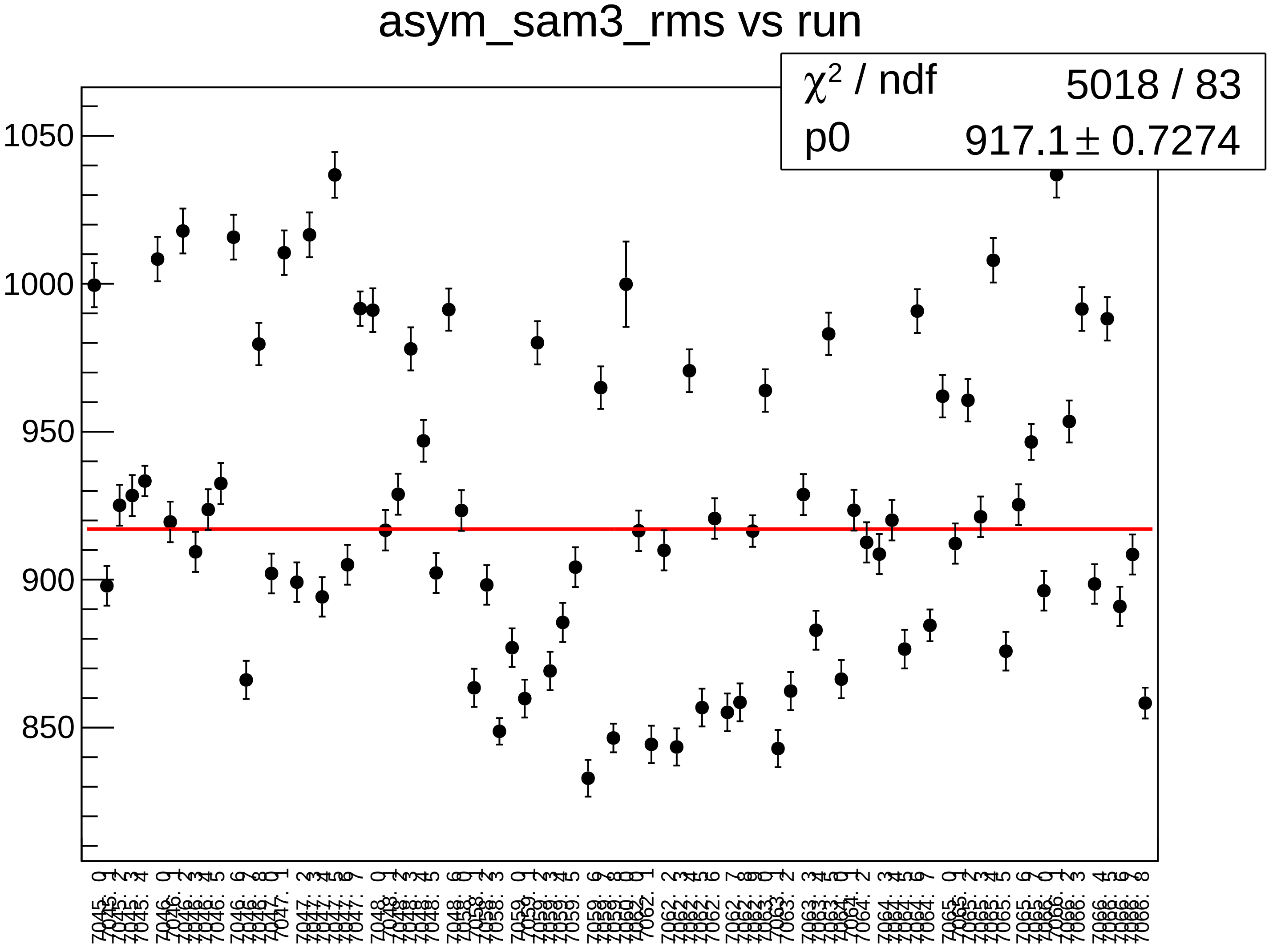
asym_sam1_rms vs run
$\chi^2$ / ndf 1.065e+04 / 83
p0 328.6 ± 0.2611
380
360
340
320
300
280


asym_sam2_mean vs run
$\times 10^3$
$\chi^2$ / ndf 78.5 / 83
p0 −664.9 ± 2397
pull
Entries 84
Mean 117.8
Std Dev 13.65
pull1D
Entries 84
Mean −0.007012
Std Dev 0.9667

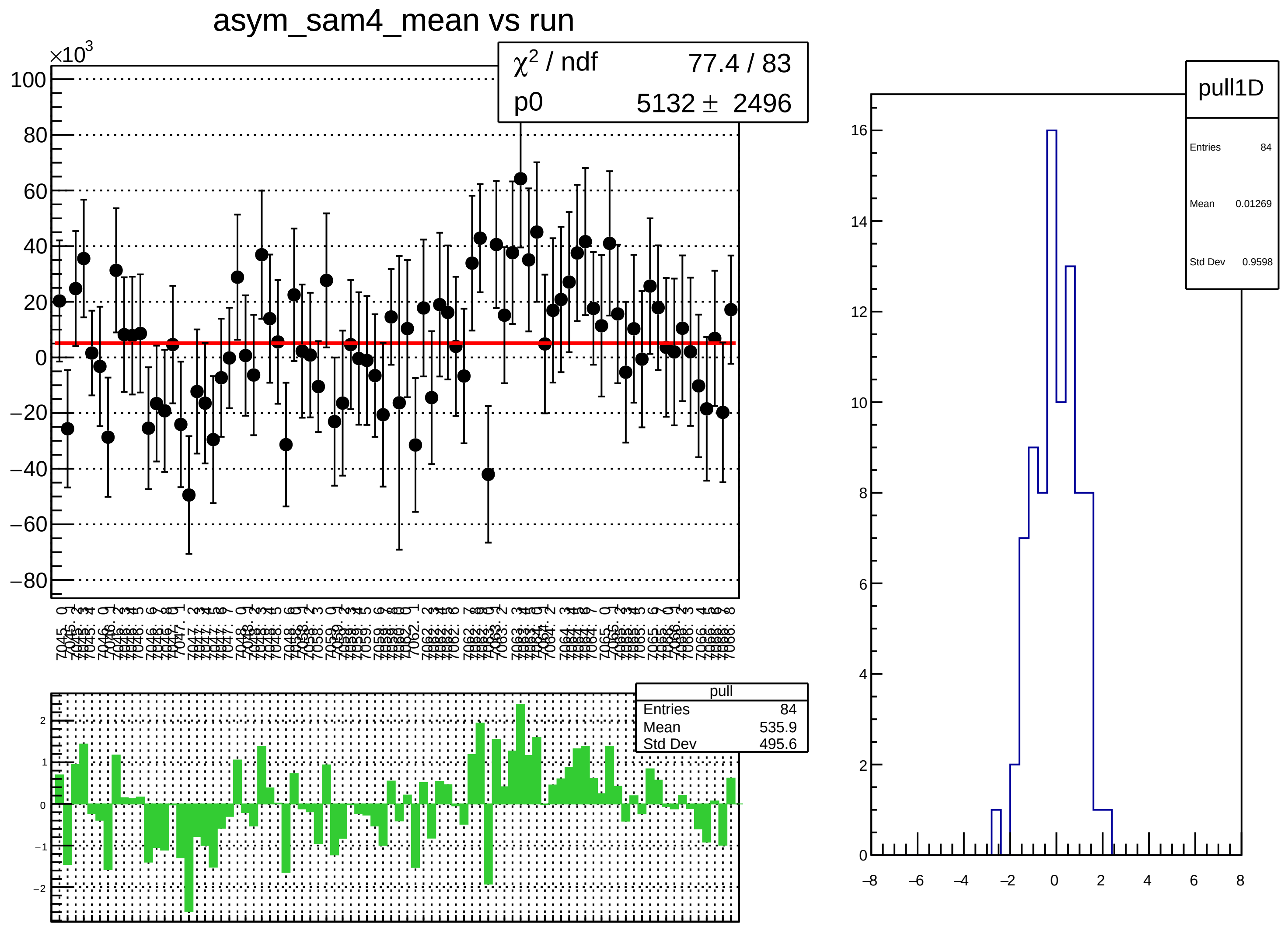


asym_sam2_rms vs run
$\chi^2$ / ndf 5782 / 83
p0 2137 ± 1.695
2600
2500
2400
2300
2200
2100
2000
1900

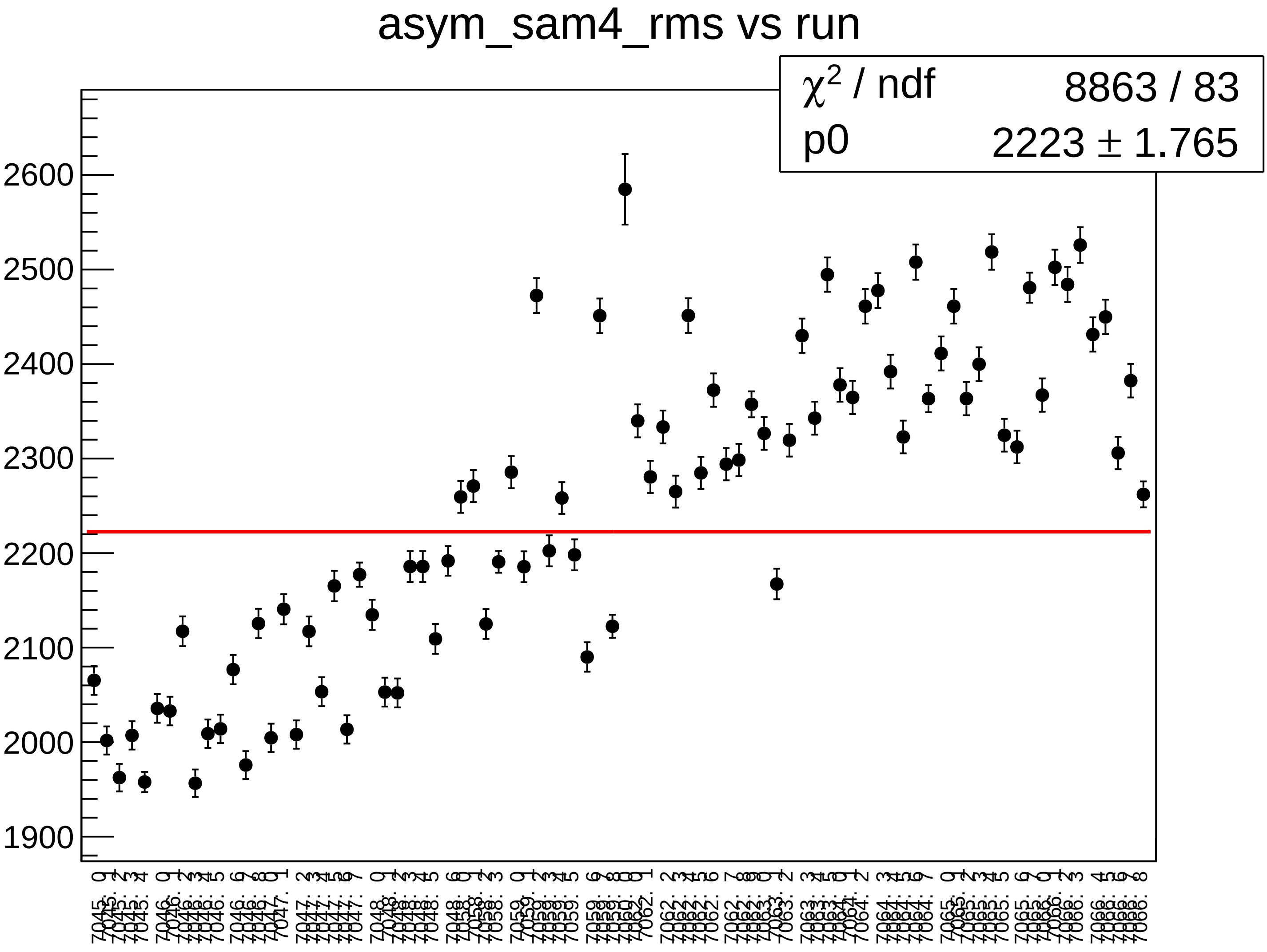

asym_sam3_mean vs run
$\chi^2$ / ndf 65.81 / 83
p0 1736 ± 1029
pull
Entries 84
Mean −269.3
Std Dev 305.3
pull1D
Entries 84
Mean −0.01411
Std Dev 0.885



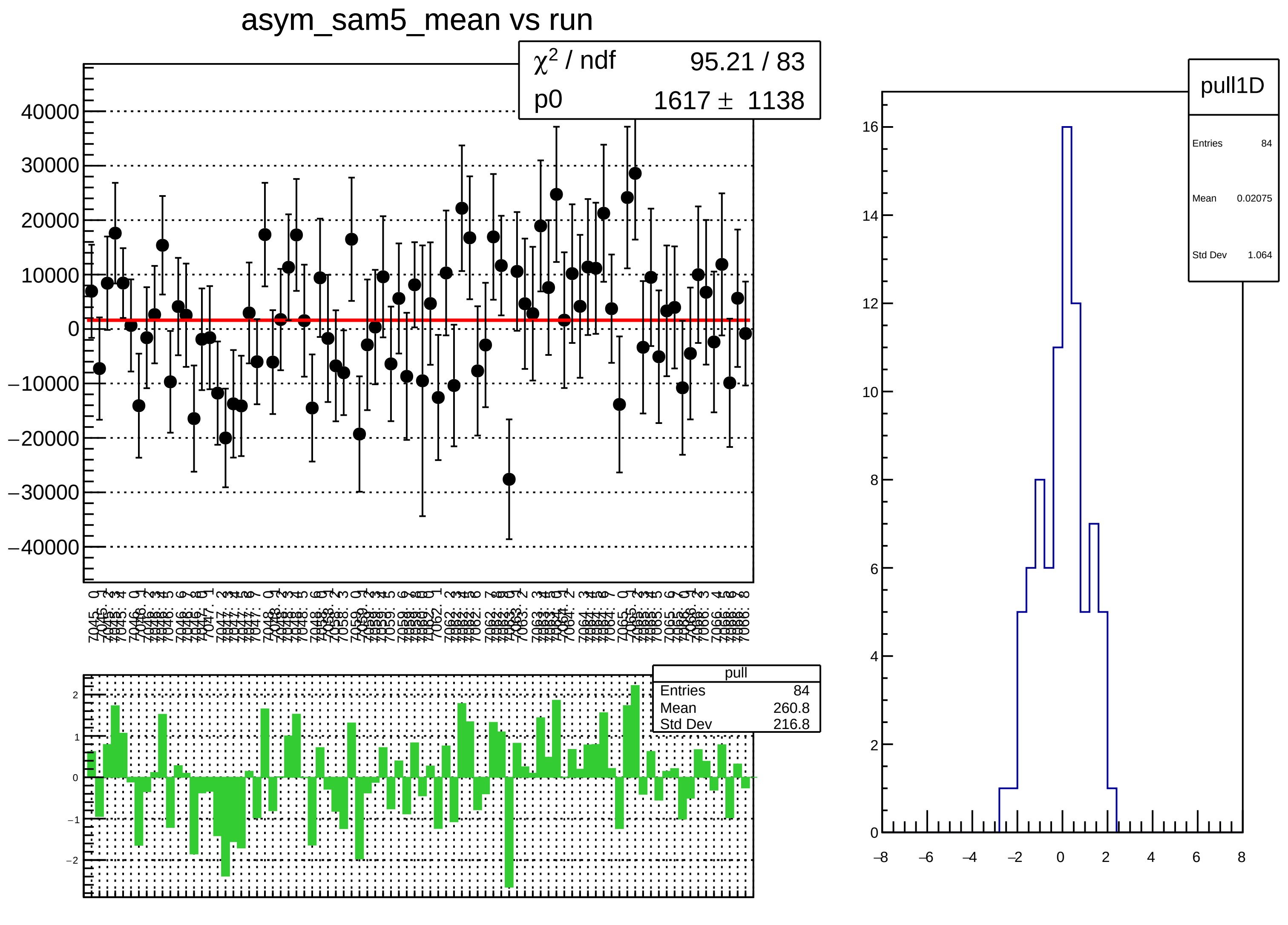
asym_sam3_rms vs run
χ² / ndf 5018 / 83
p0 917.1 ± 0.7274
1050
1000
950
900
850

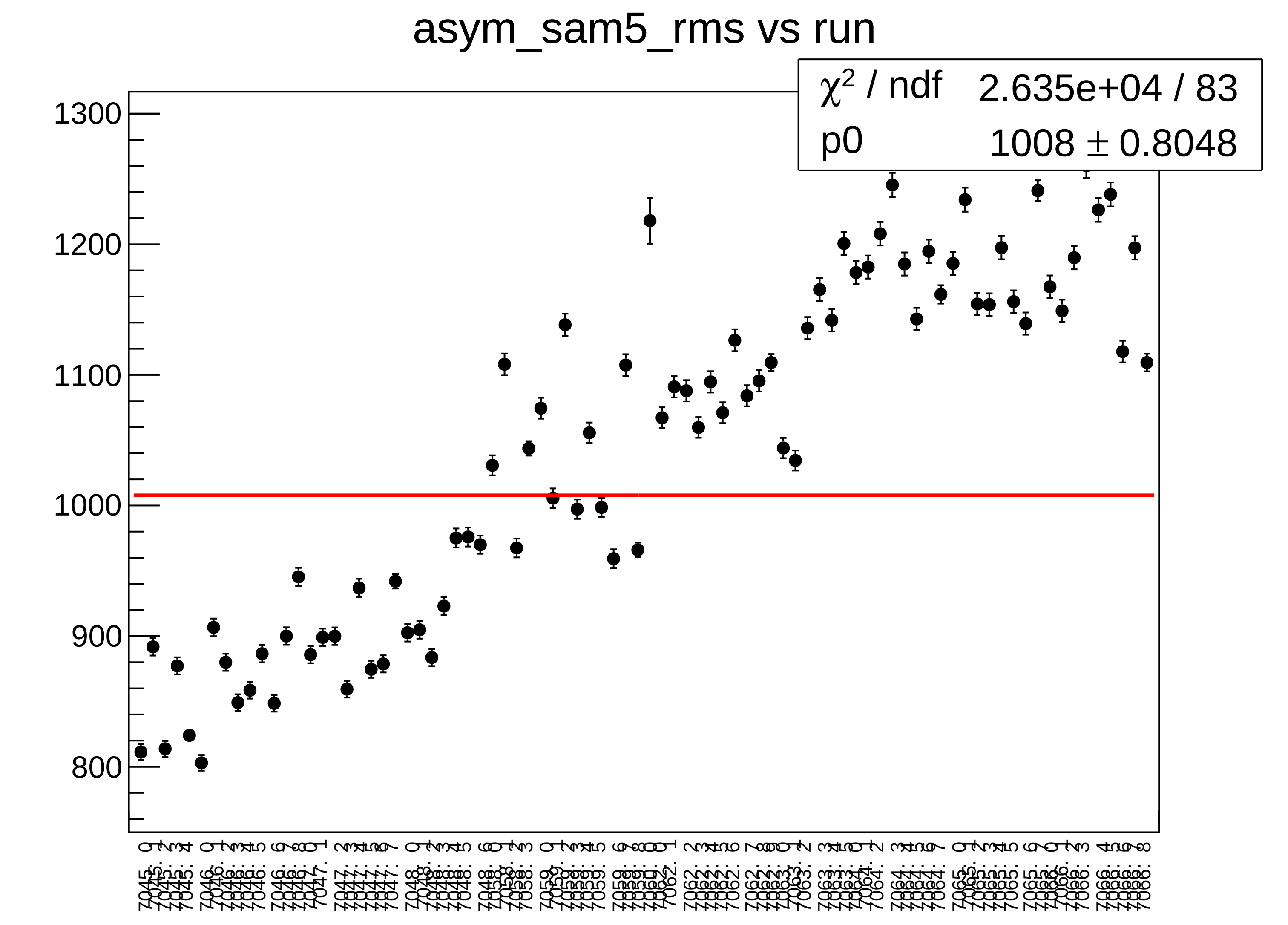


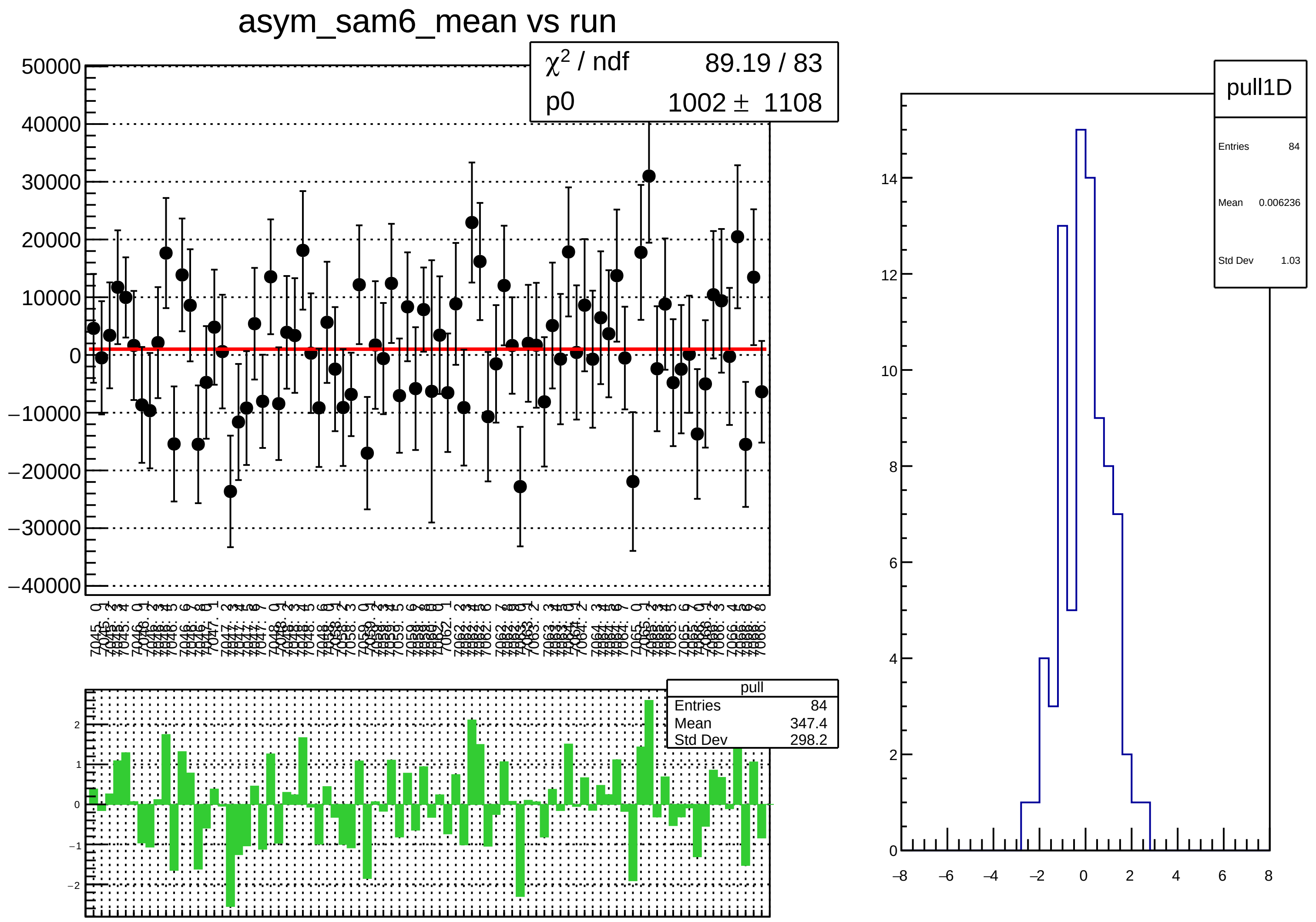
asym_sam4_mean vs run
χ2 / ndf 77.4 / 83
p0 5132 ± 2496
pull
Entries 84
Mean 535.9
Std Dev 495.6
pull1D
Entries 84
Mean 0.01269
Std Dev 0.9598



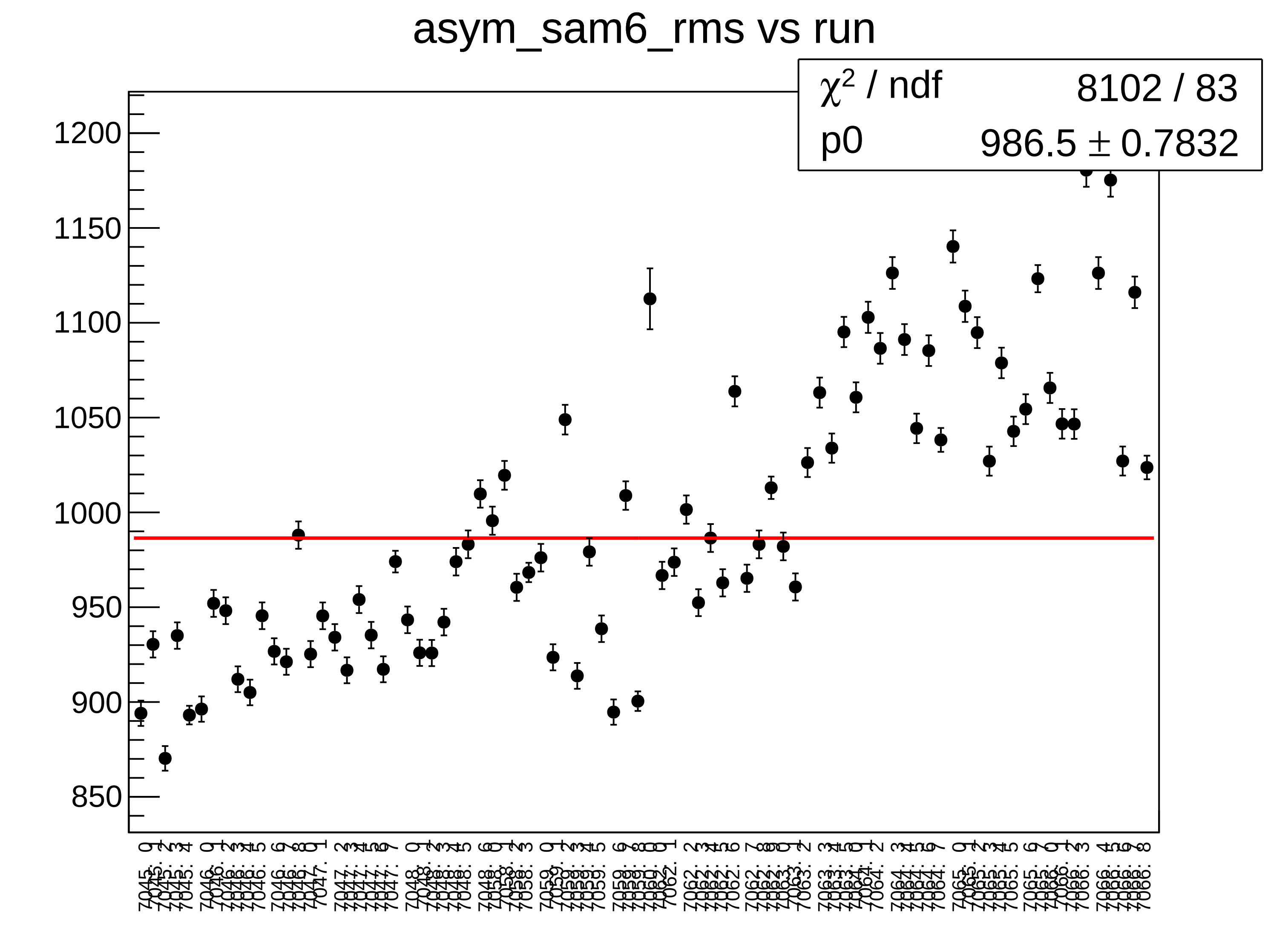
asym_sam4_rms vs run
$\chi^2$ / ndf 8863 / 83
p0 2223 ± 1.765
2600
2500
2400
2300
2200
2100
2000
1900

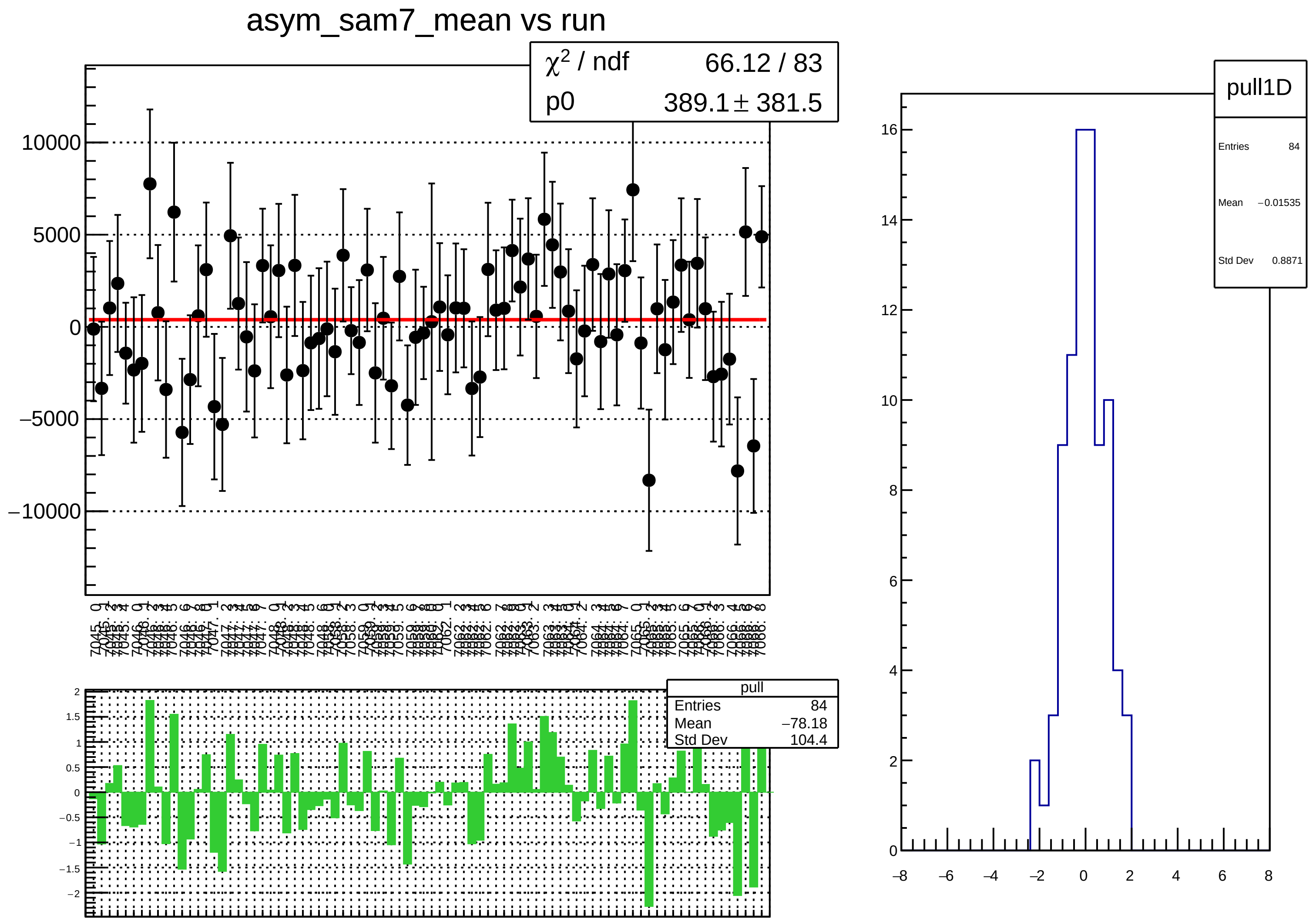

asym_sam5_mean vs run
χ2 / ndf 95.21 / 83
p0 1617 ± 1138
pull
Entries 84
Mean 260.8
Std Dev 216.8
pull1D
Entries 84
Mean 0.02075
Std Dev 1.064

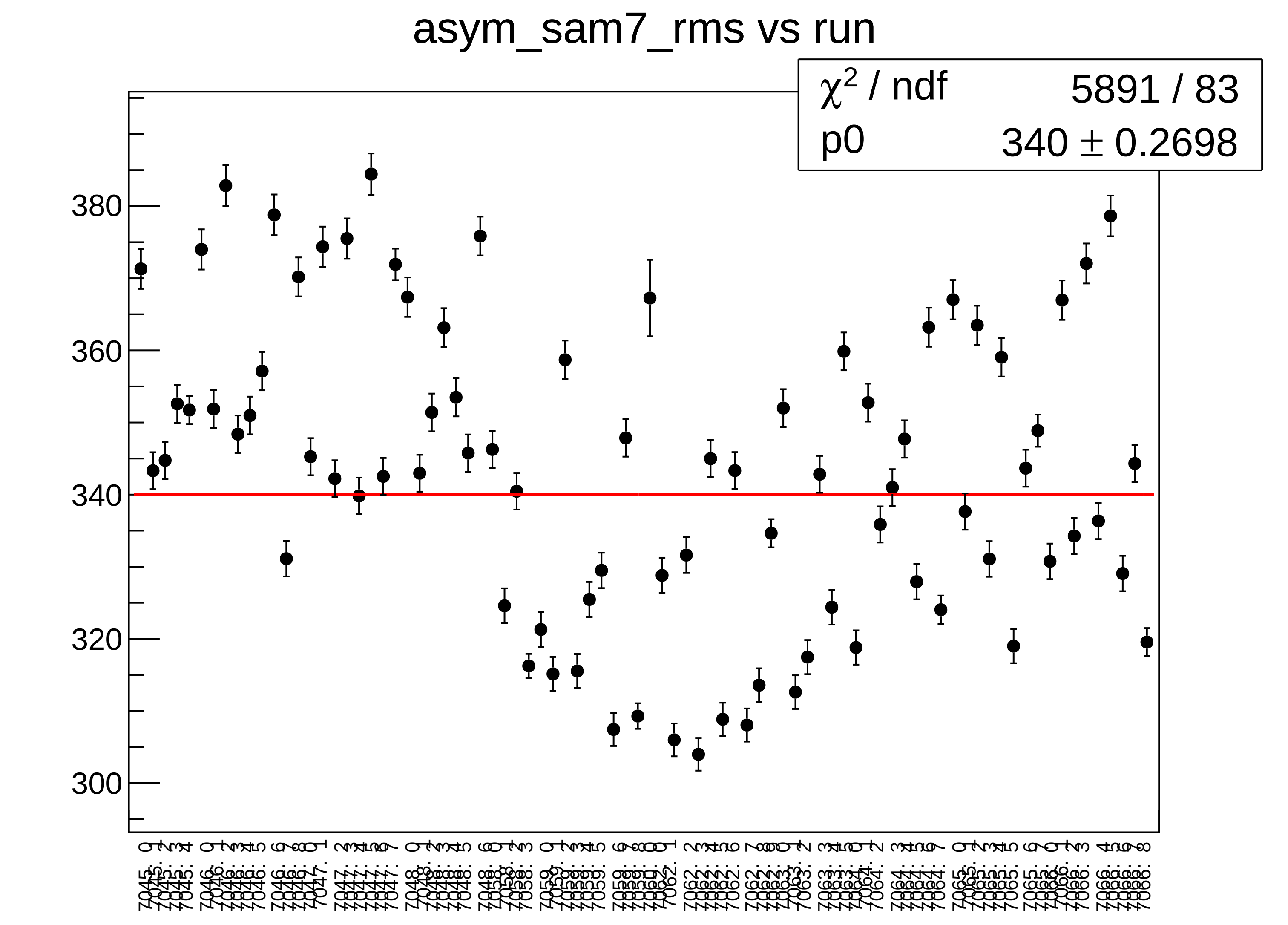

asym_sam5_rms vs run
χ2 / ndf 2.635e+04 / 83
p0 1008 ± 0.8048
1300
1200
1100
1000
900
800

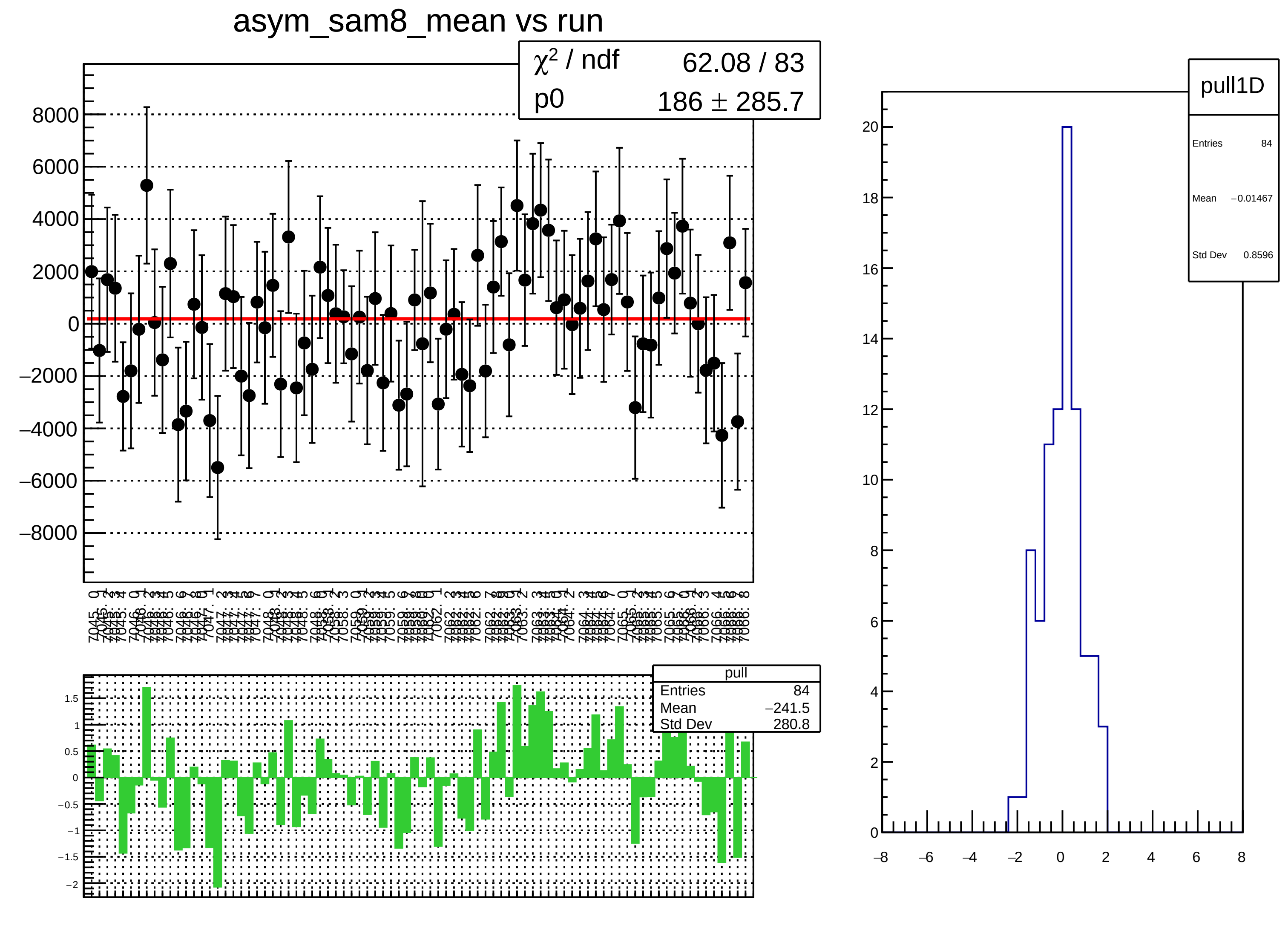


asym_sam6_mean vs run
$\chi^2$ / ndf 89.19 / 83
p0 1002 ± 1108
pull
Entries 84
Mean 347.4
Std Dev 298.2
pull1D
Entries 84
Mean 0.006236
Std Dev 1.03

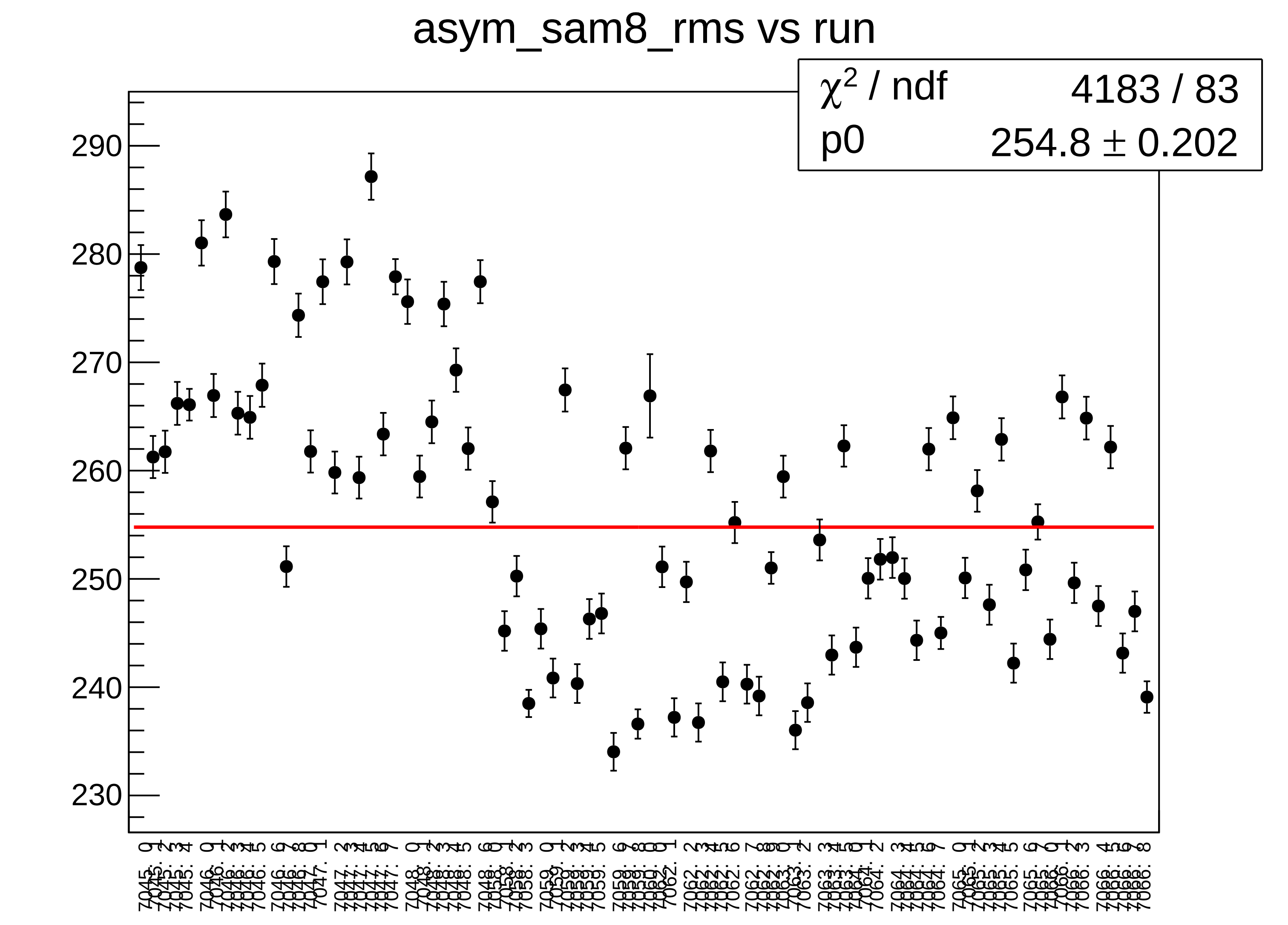

asym_sam6_rms vs run
χ2 / ndf 8102 / 83
p0 986.5 ± 0.7832
1200
1150
1100
1050
1000
950
900
850

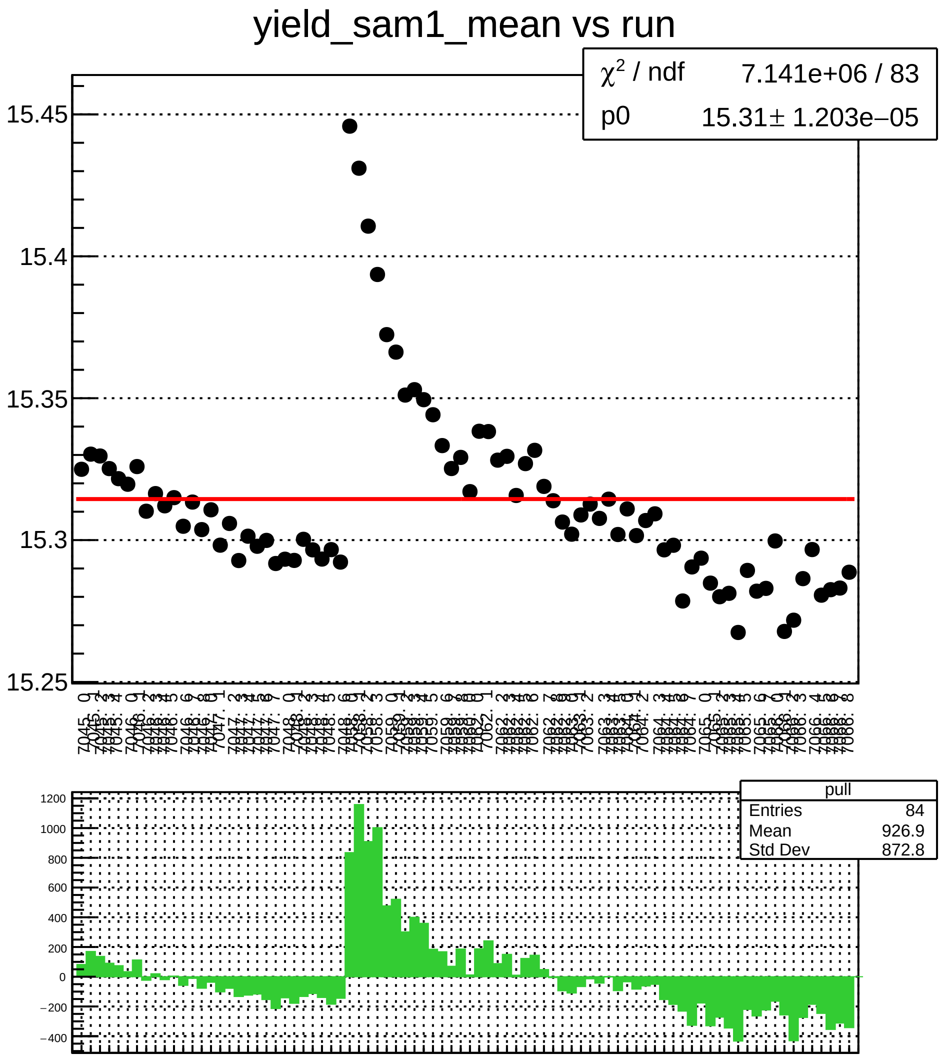

asym_sam7_mean vs run
$\chi^2$ / ndf 66.12 / 83
p0 389.1 ± 381.5
pull
Entries 84
Mean −78.18
Std Dev 104.4
pull1D
Entries 84
Mean −0.01535
Std Dev 0.8871

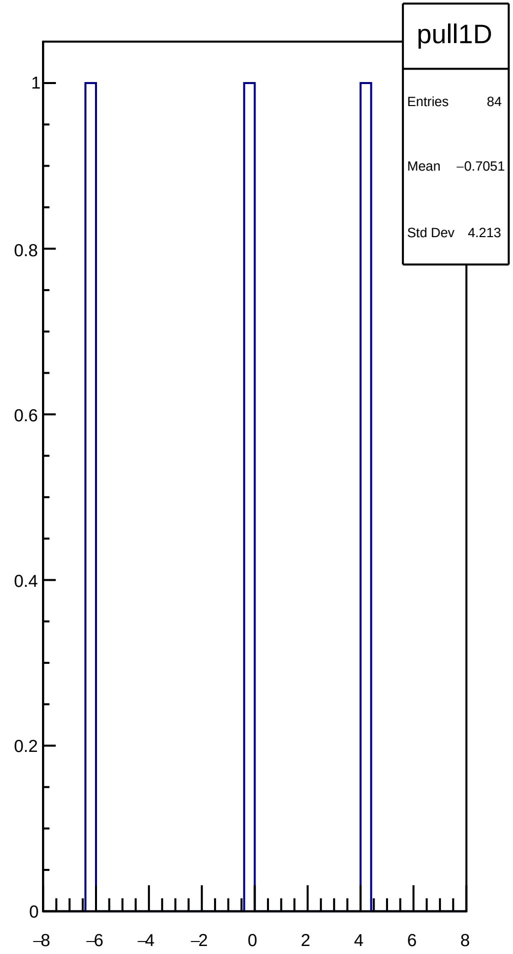

asym_sam7_rms vs run
χ2 / ndf 5891 / 83
p0 340 ± 0.2698
380
360
340
320
300

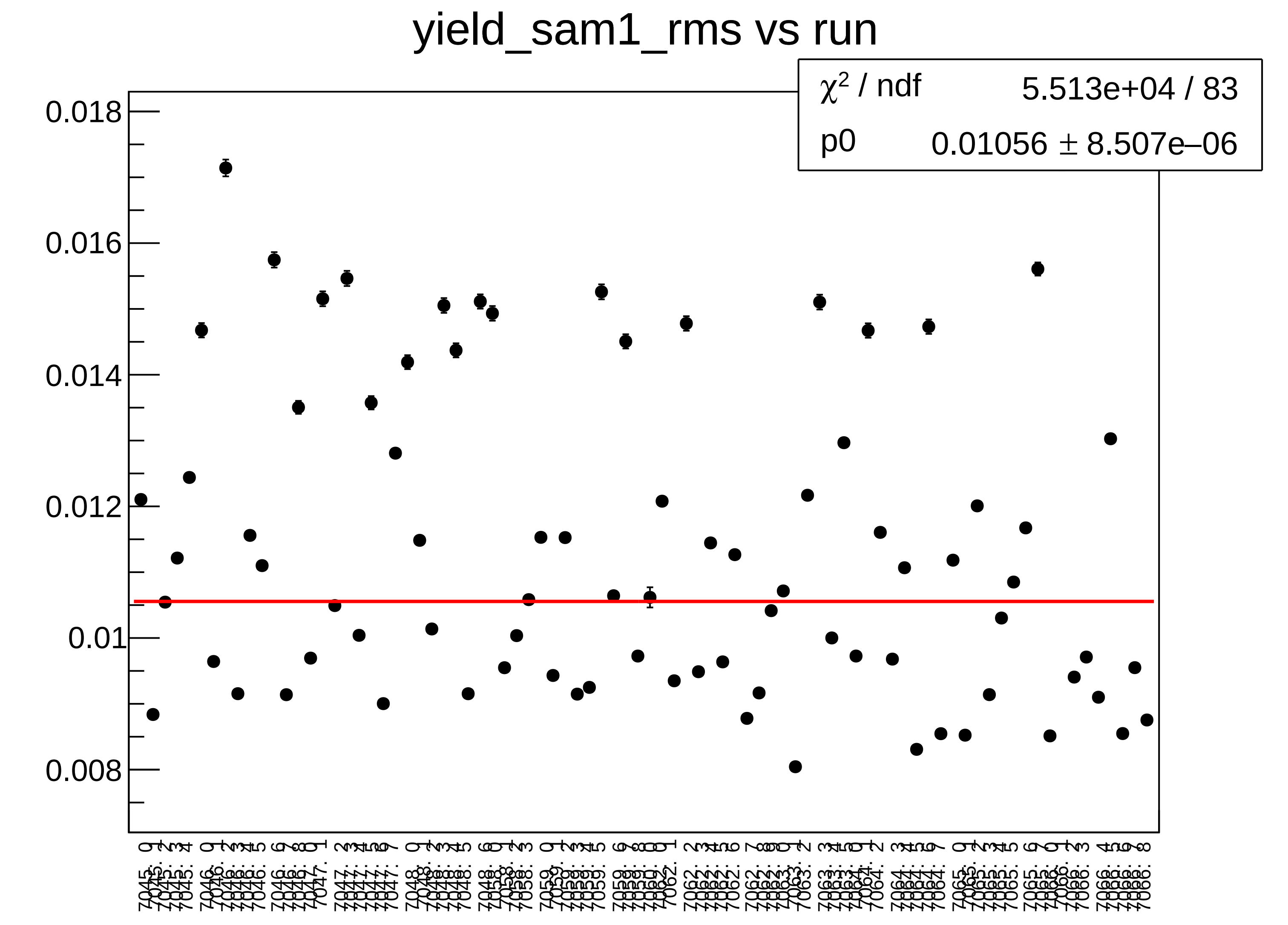


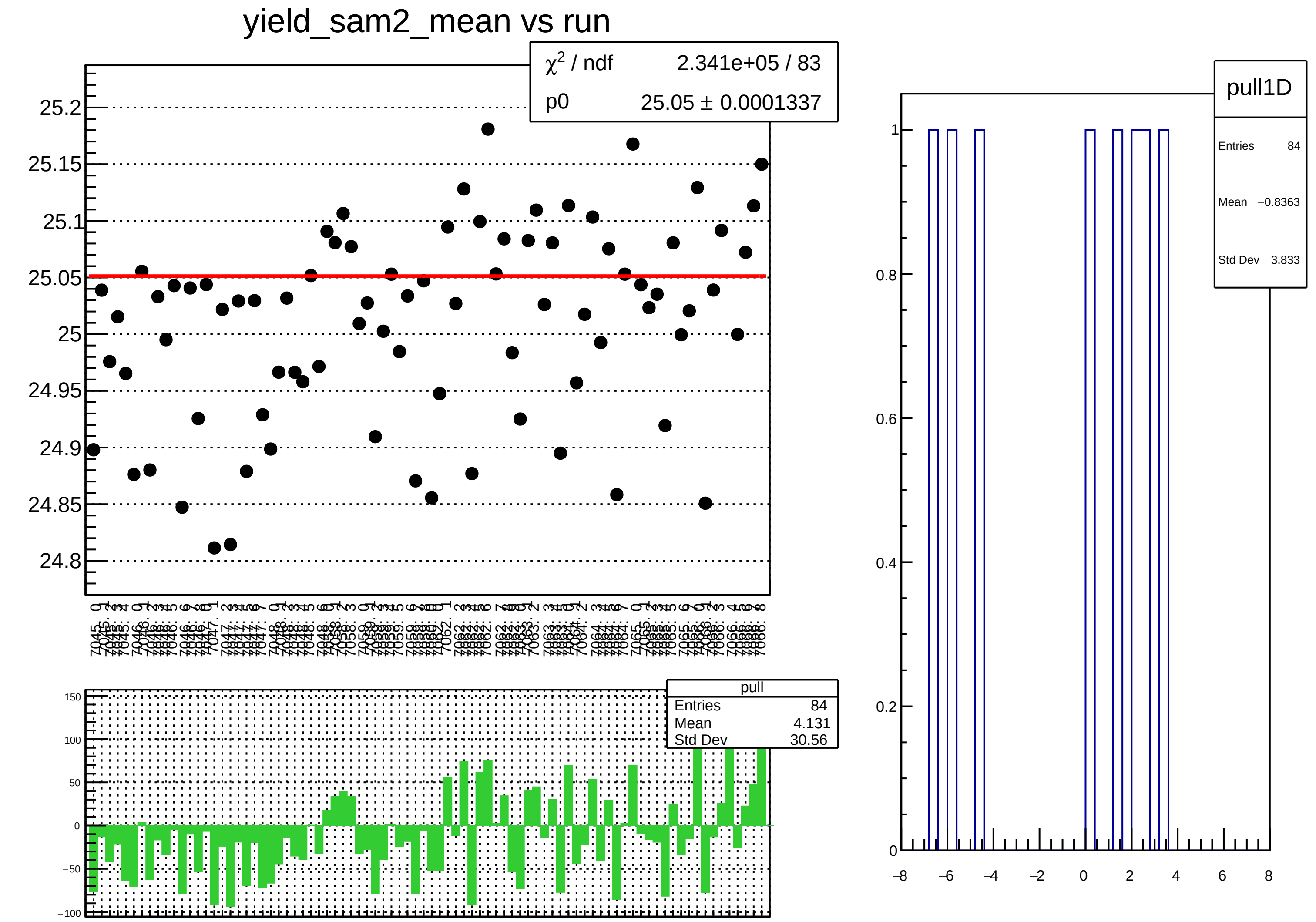
asym_sam8_mean vs run
$\chi^2$ / ndf 62.08 / 83
p0 186 ± 285.7
pull
Entries 84
Mean −241.5
Std Dev 280.8
pull1D
Entries 84
Mean −0.01467
Std Dev 0.8596


asym_sam8_rms vs run
$\chi^2$ / ndf 4183 / 83
p0 254.8 ± 0.202
290
280
270
260
250
240
230

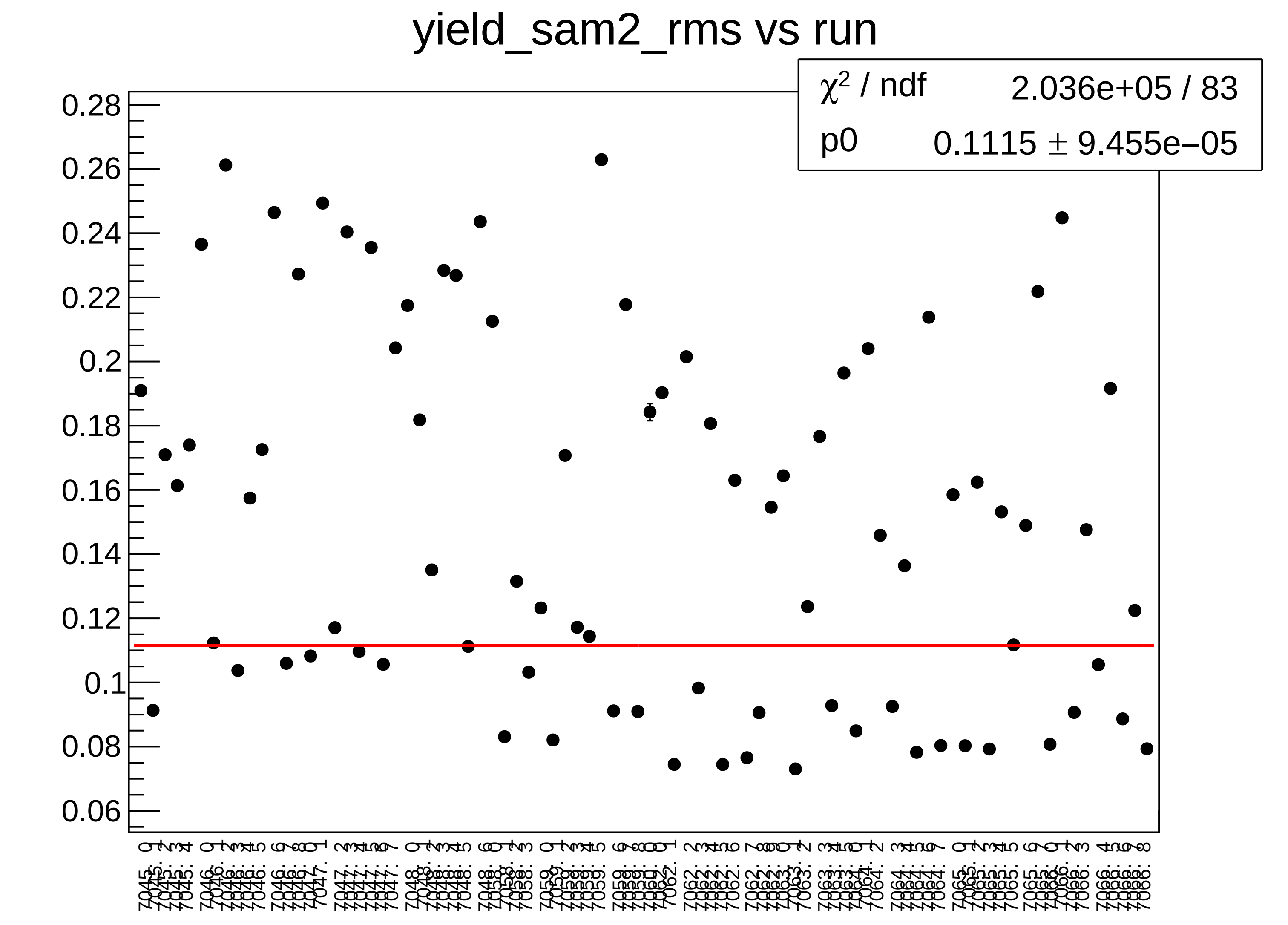

yield_sam1_mean vs run
χ2 / ndf 7.141e+06 / 83
p0 15.31± 1.203e−05
pull
Entries 84
Mean 926.9
Std Dev 872.8


pull1D
Entries 84
Mean −0.7051
Std Dev 4.213

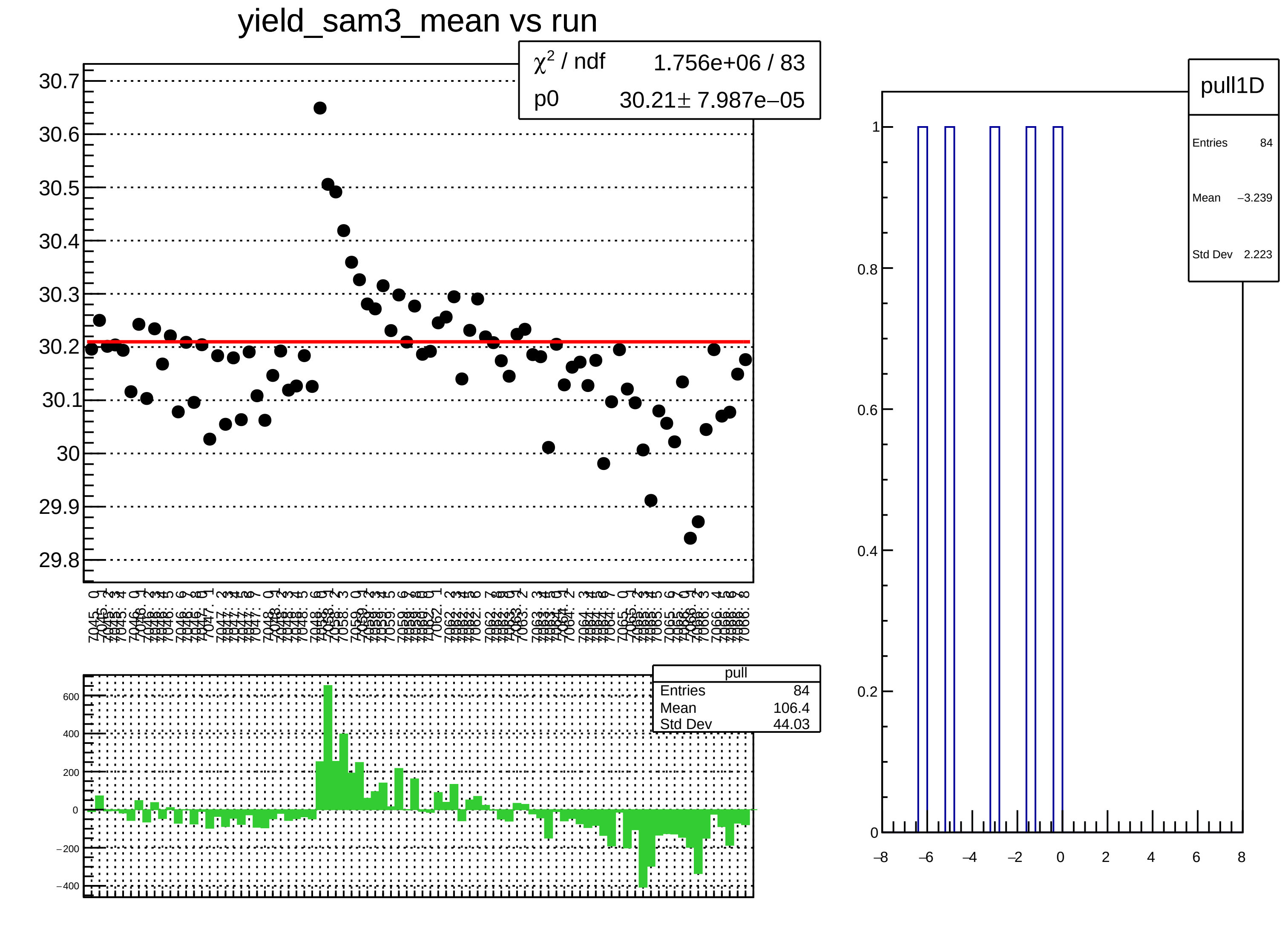

yield_sam1_rms vs run
χ2 / ndf 5.513e+04 / 83
p0 0.01056 ± 8.507e−06
0.018
0.016
0.014
0.012
0.01
0.008

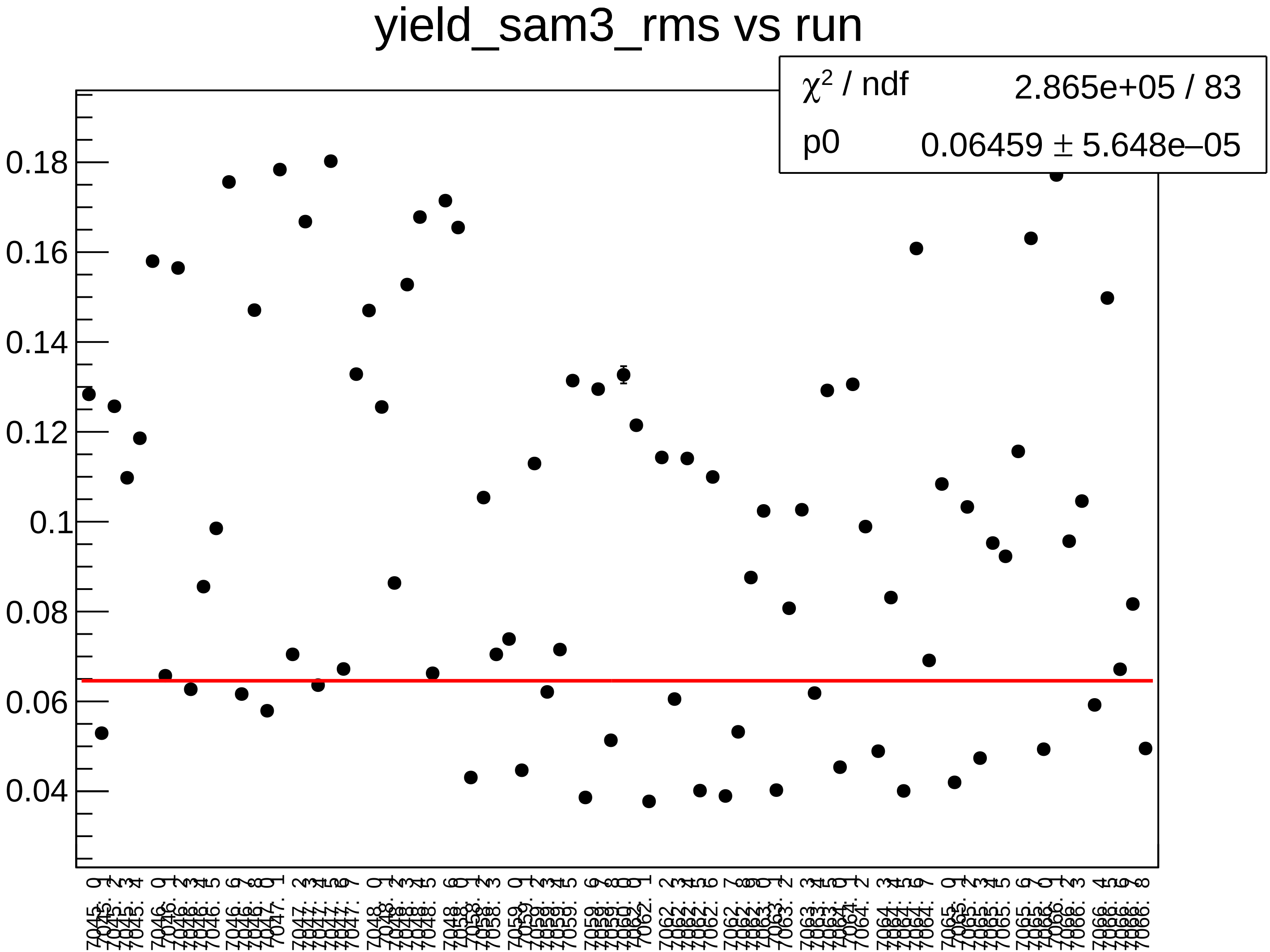


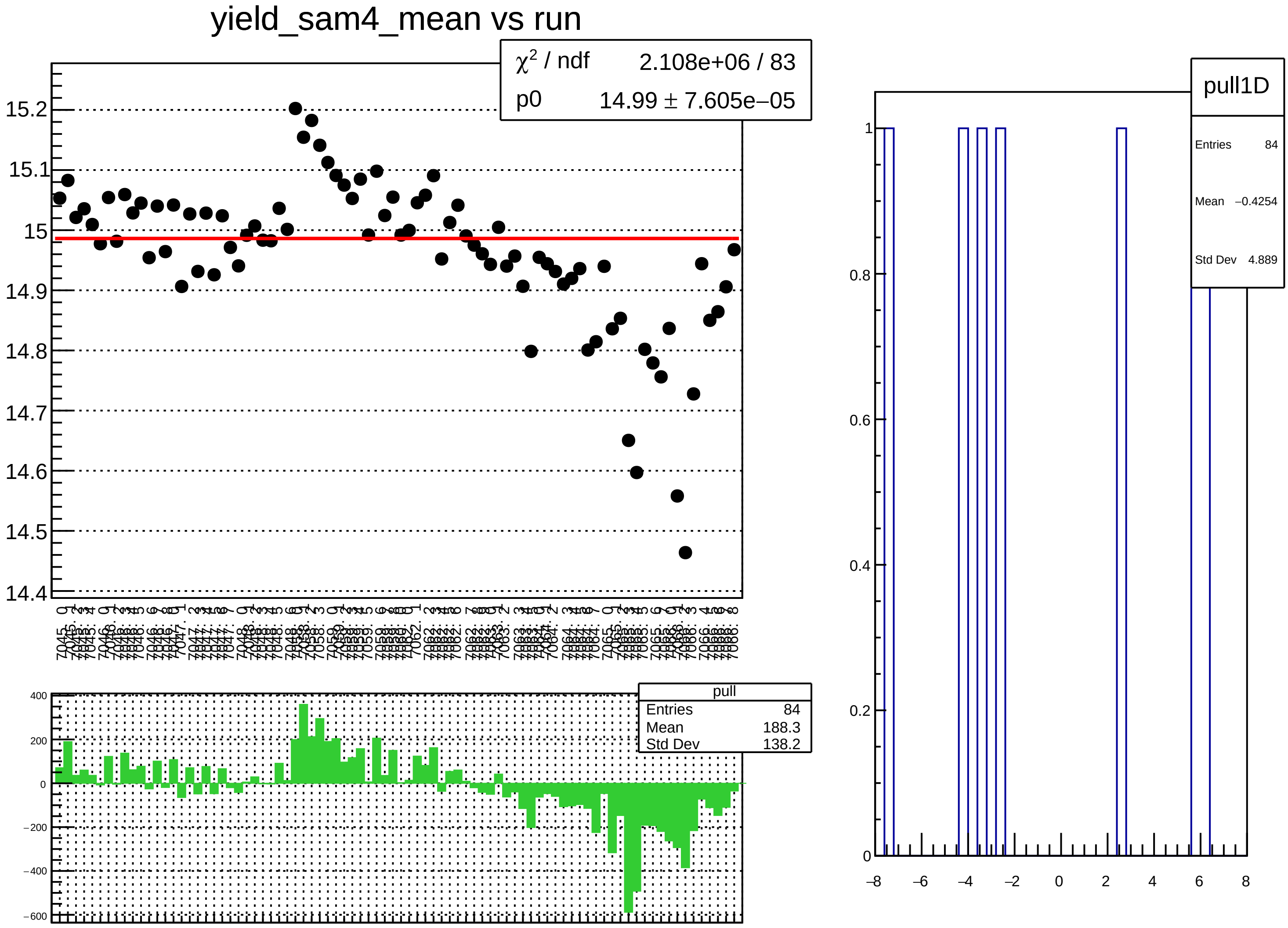
yield_sam2_mean vs run
$\chi^2$ / ndf 2.341e+05 / 83
p0 25.05 ± 0.0001337
pull
Entries 84
Mean 4.131
Std Dev 30.56
pull1D
Entries 84
Mean −0.8363
Std Dev 3.833



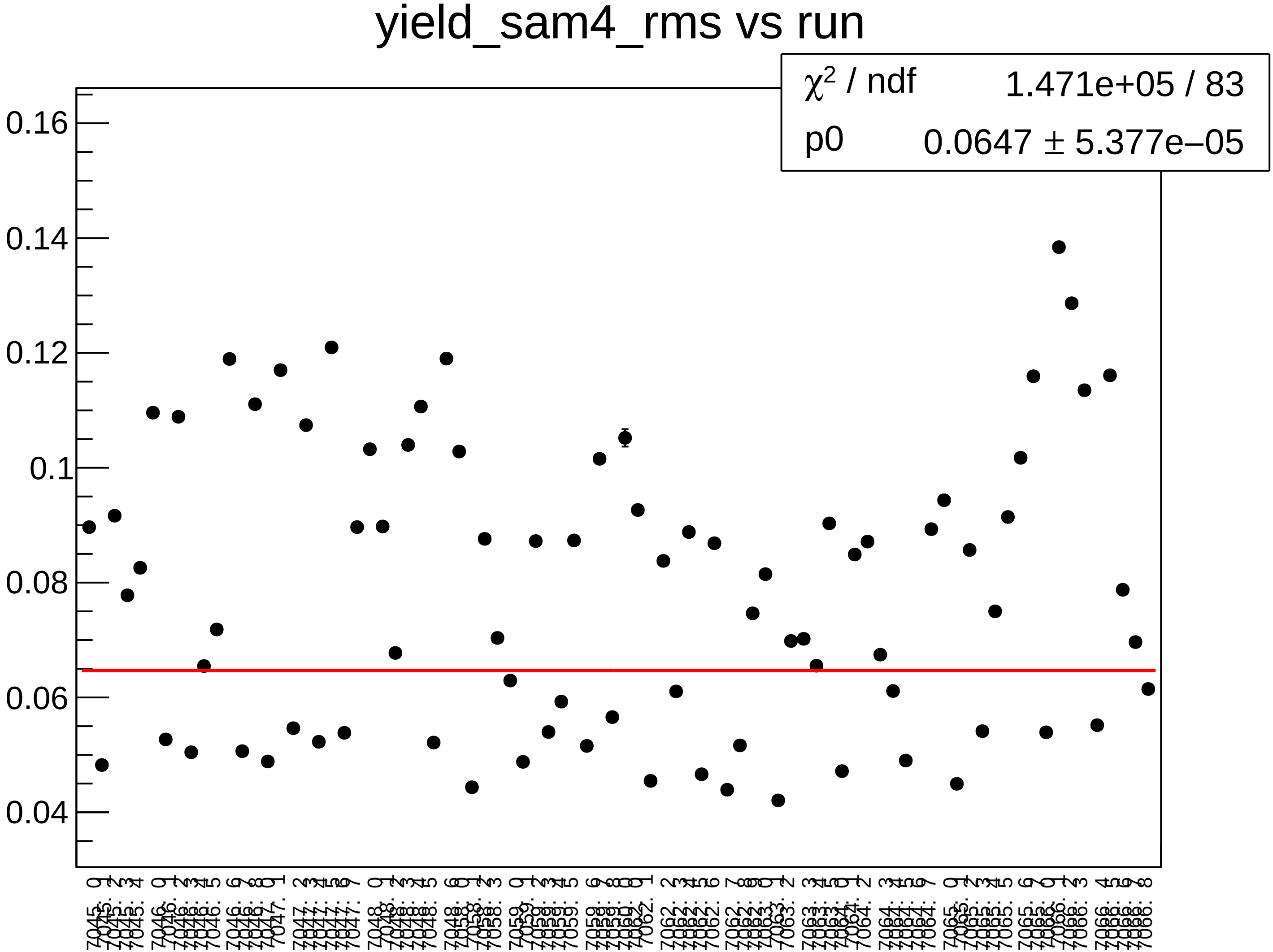
yield_sam2_rms vs run
χ² / ndf 2.036e+05 / 83
p0 0.1115 ± 9.455e−05
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06


yield_sam3_mean vs run
χ² / ndf 1.756e+06 / 83
p0 30.21± 7.987e−05
pull
Entries 84
Mean 106.4
Std Dev 44.03
pull1D
Entries 84
Mean −3.239
Std Dev 2.223

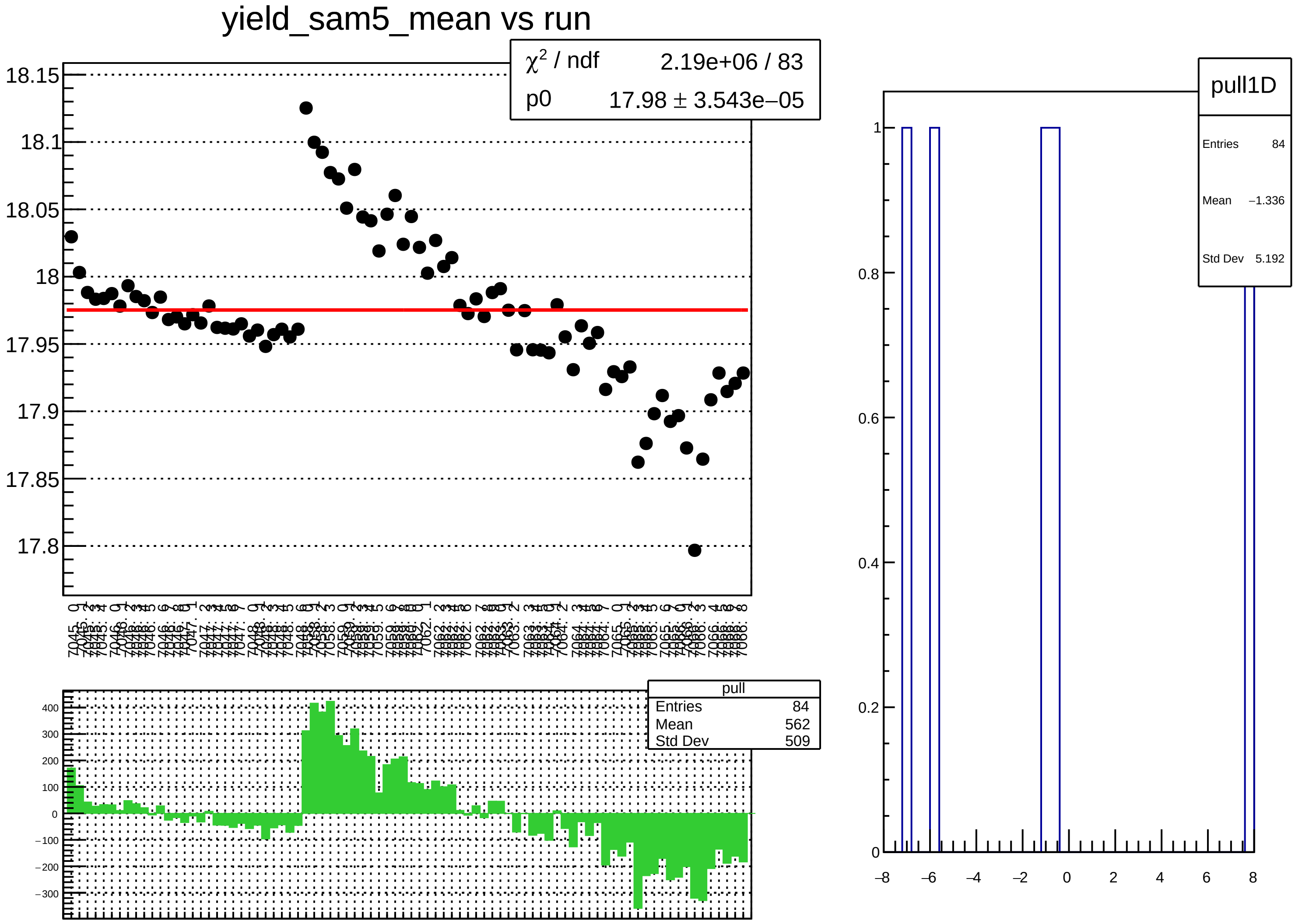

yield_sam3_rms vs run
χ2 / ndf 2.865e+05 / 83
p0 0.06459 ± 5.648e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04



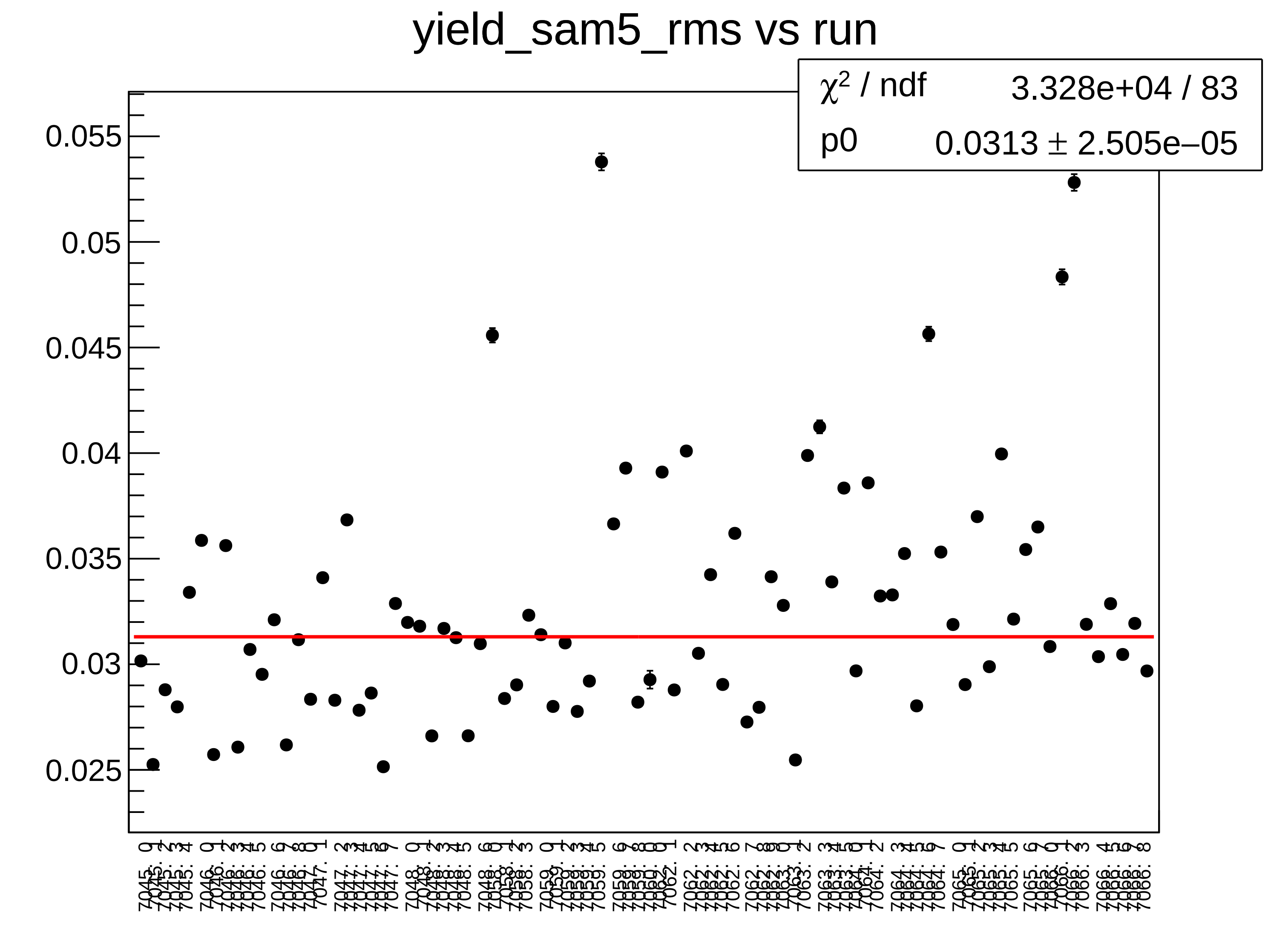
yield_sam4_mean vs run
χ2 / ndf 2.108e+06 / 83
p0 14.99 ± 7.605e−05
pull
Entries 84
Mean 188.3
Std Dev 138.2
pull1D
Entries 84
Mean −0.4254
Std Dev 4.889

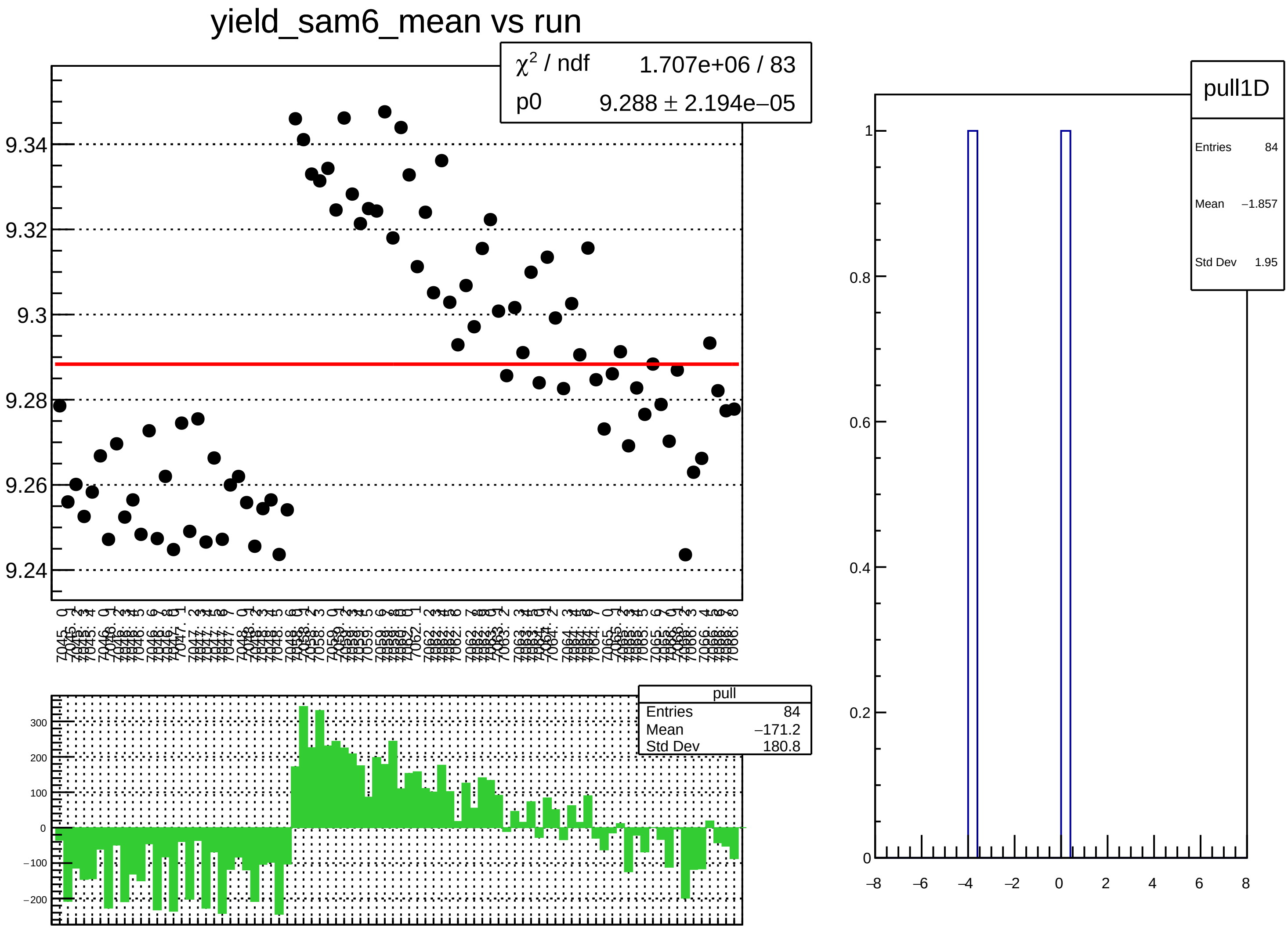


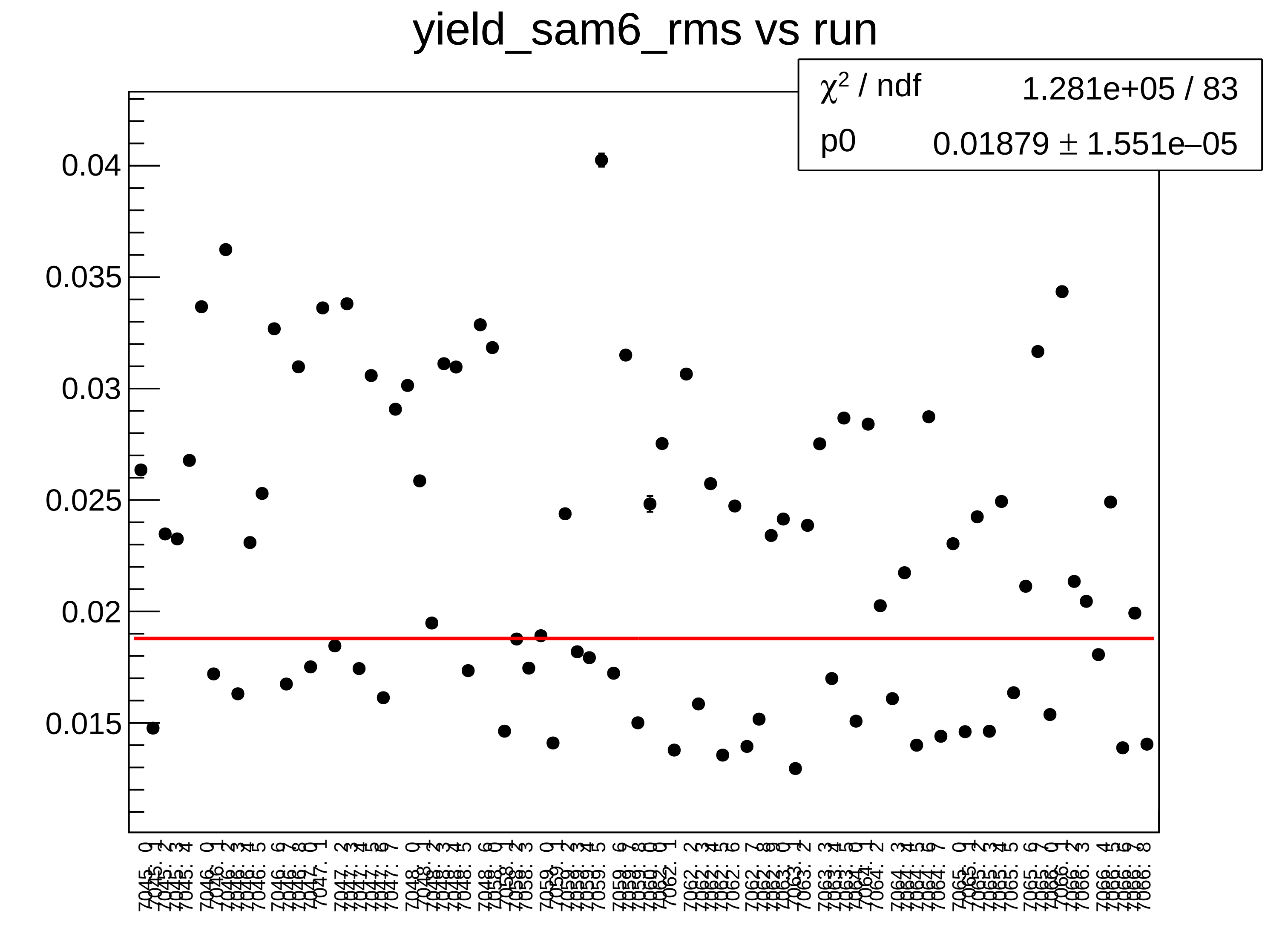
yield_sam4_rms vs run
χ2 / ndf 1.471e+05 / 83
p0 0.0647 ± 5.377e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04



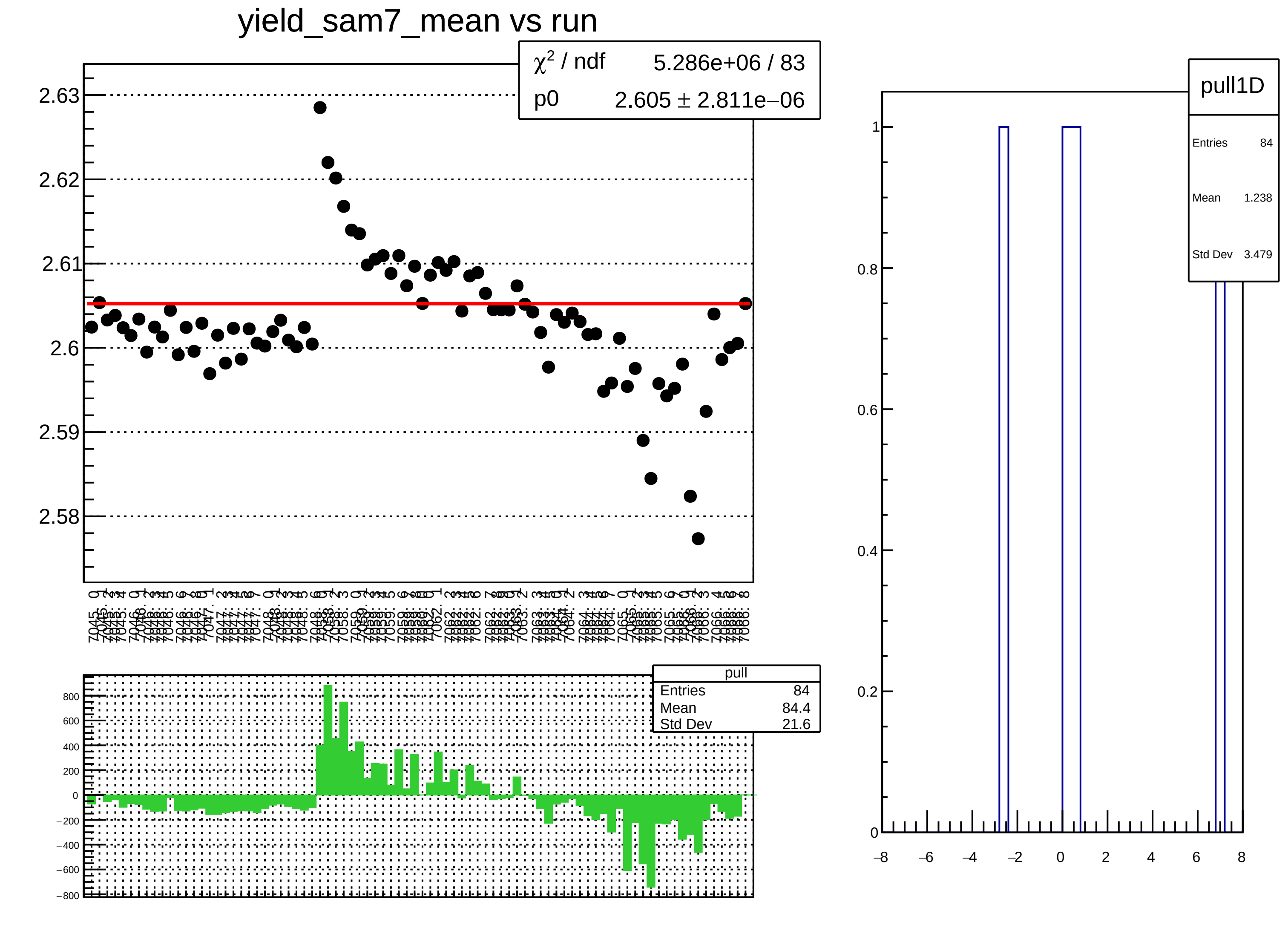
yield_sam5_mean vs run
$\chi^2$ / ndf 2.19e+06 / 83
p0 17.98 ± 3.543e−05
pull
Entries 84
Mean 562
Std Dev 509
pull1D
Entries 84
Mean −1.336
Std Dev 5.192

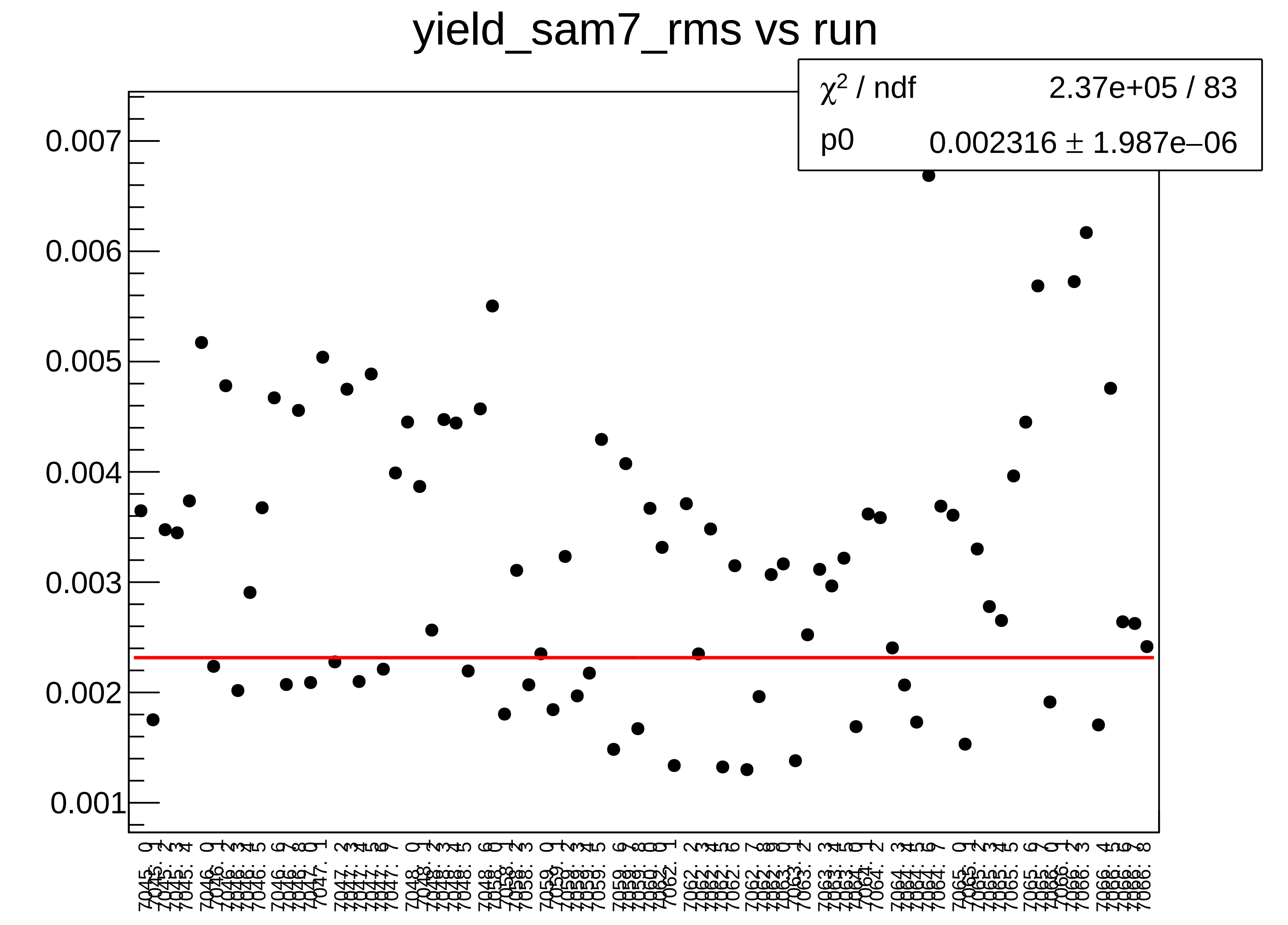

yield_sam5_rms vs run
χ2 / ndf 3.328e+04 / 83
p0 0.0313 ± 2.505e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025


yield_sam6_mean vs run
$\chi^2$ / ndf 1.707e+06 / 83
p0 9.288 ± 2.194e−05
9.34
9.32
9.3
9.28
9.26
9.24
pull
Entries 84
Mean −171.2
Std Dev 180.8
300
200
100
0
−100
−200
pull1D
Entries 84
Mean −1.857
Std Dev 1.95
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



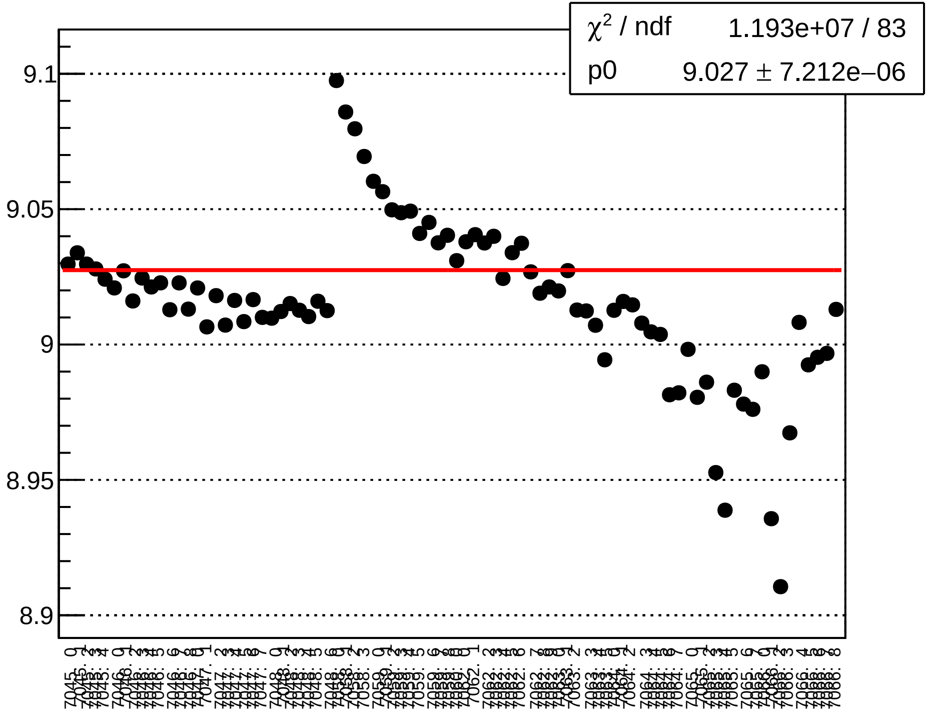
yield_sam6_rms vs run
χ2 / ndf 1.281e+05 / 83
p0 0.01879 ± 1.551e−05
0.04
0.035
0.03
0.025
0.02
0.015

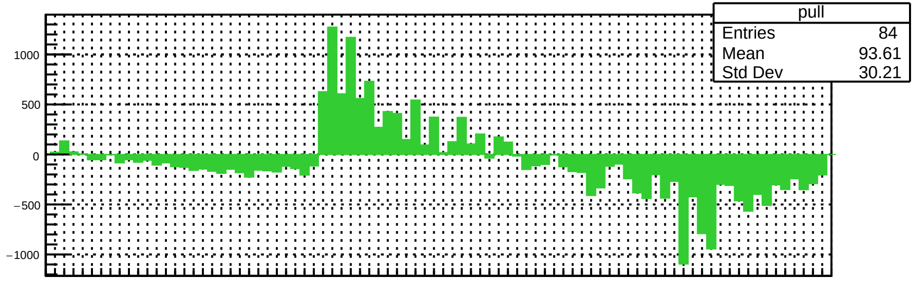

yield_sam7_mean vs run
$\chi^2$ / ndf 5.286e+06 / 83
p0 2.605 ± 2.811e−06
pull
Entries 84
Mean 84.4
Std Dev 21.6
pull1D
Entries 84
Mean 1.238
Std Dev 3.479

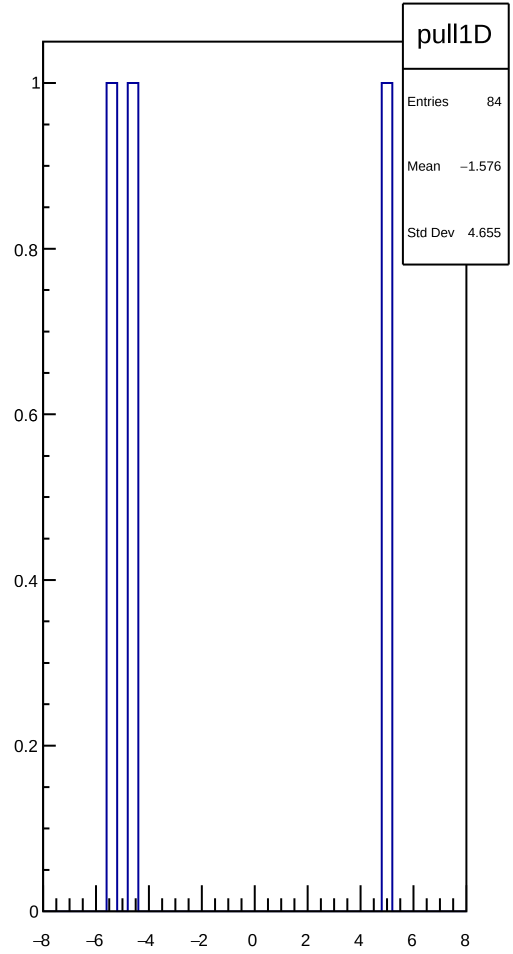


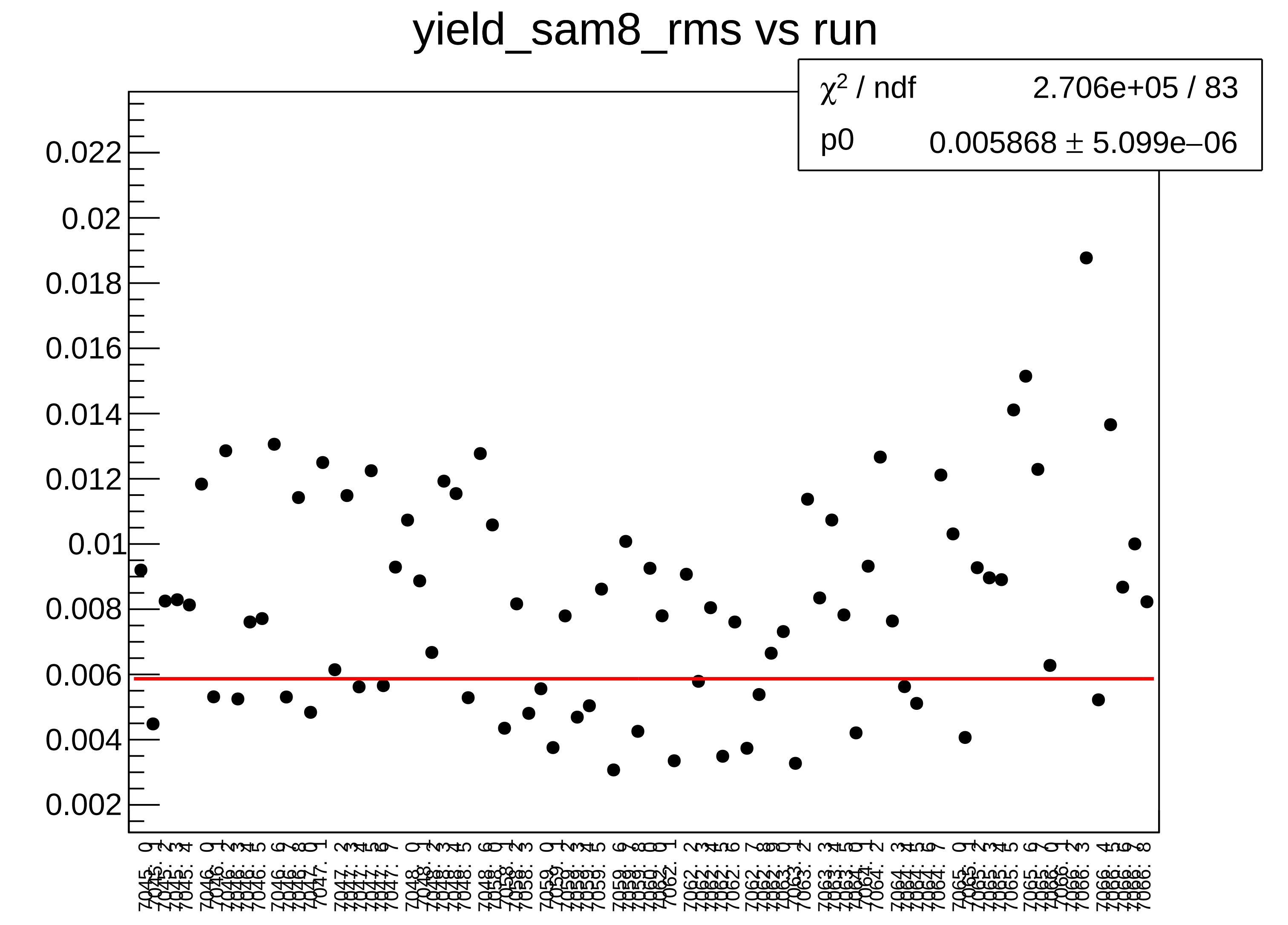
yield_sam7_rms vs run
$\chi^2$ / ndf 2.37e+05 / 83
p0 0.002316 ± 1.987e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

yield_sam8_mean vs run

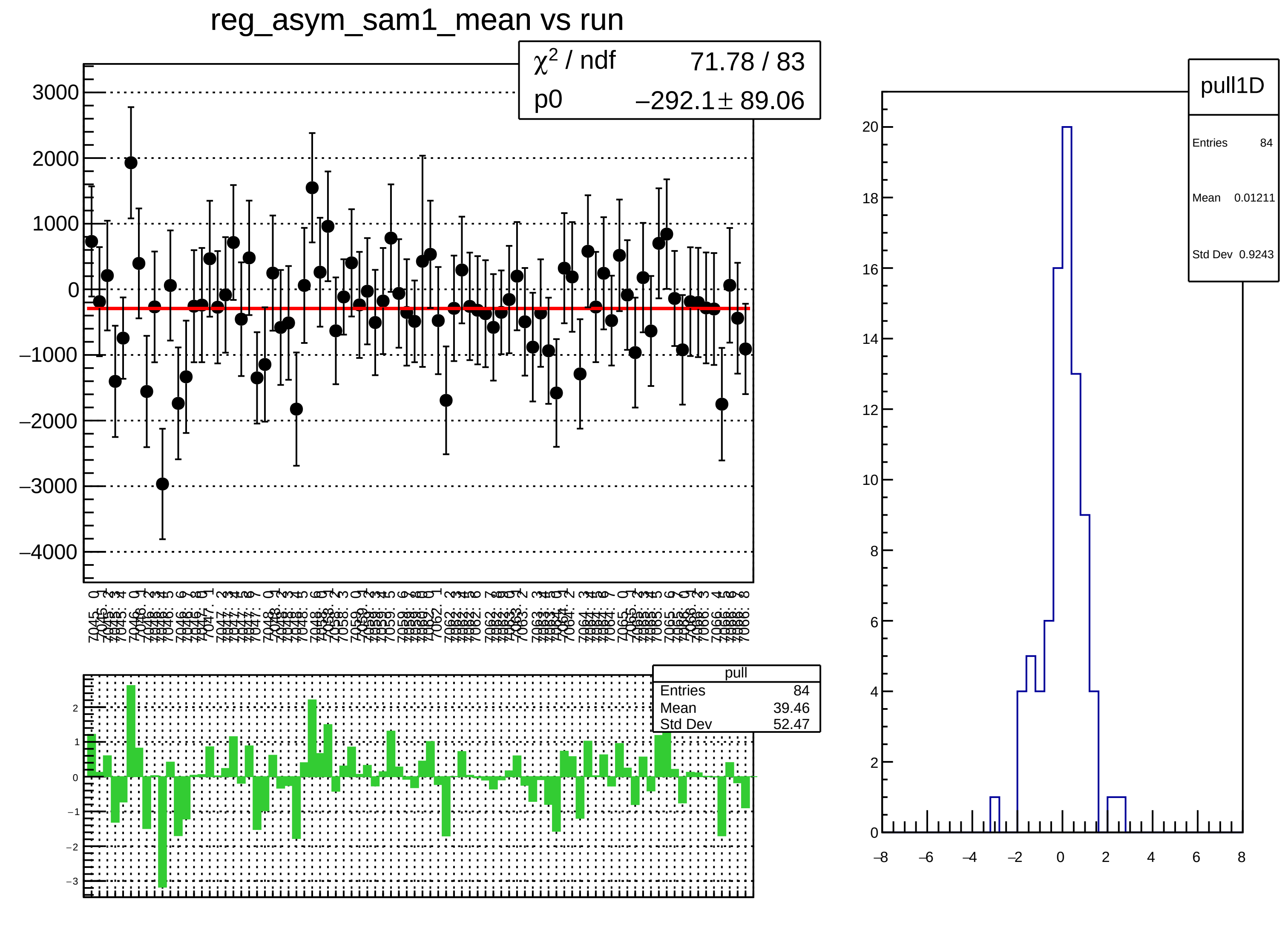


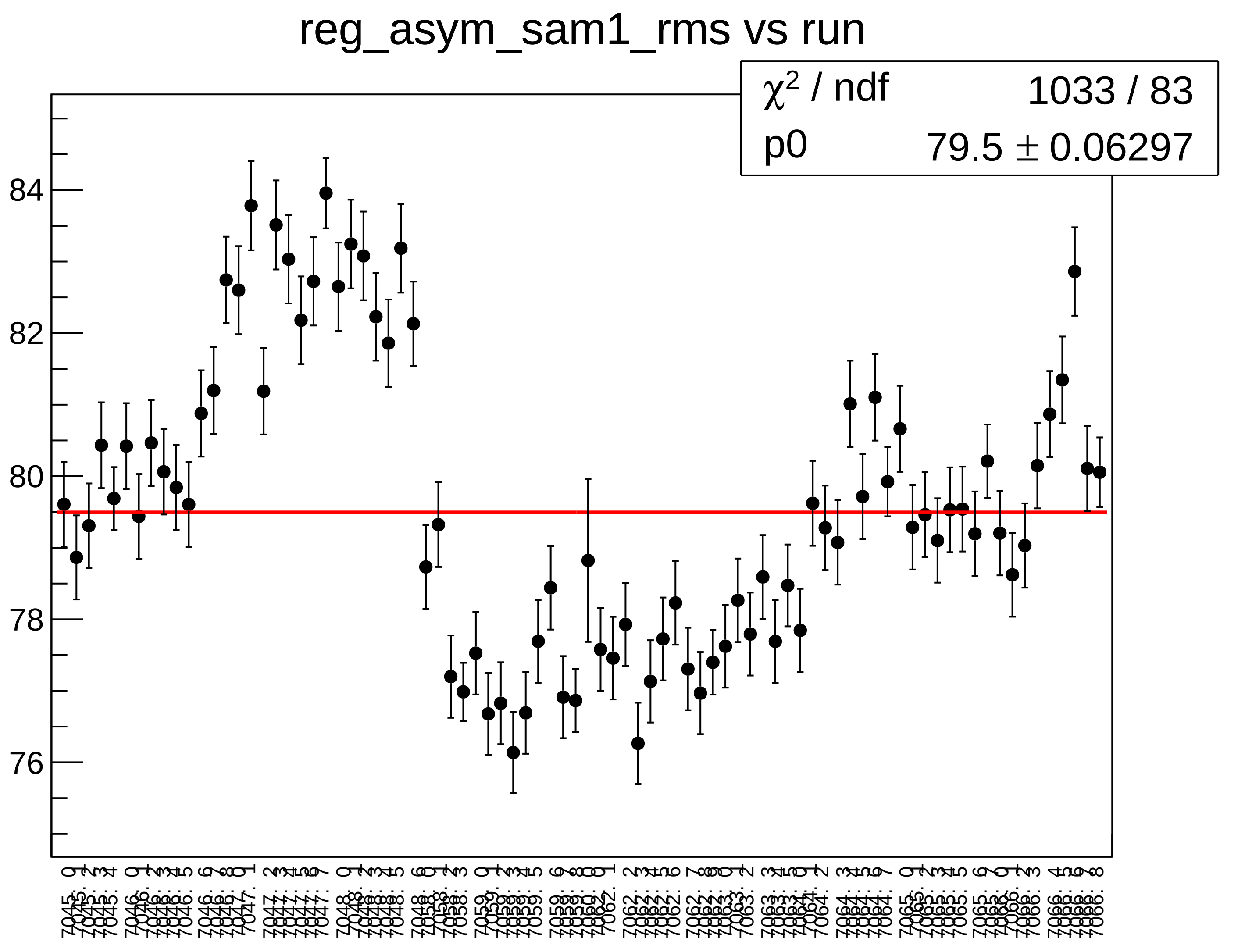



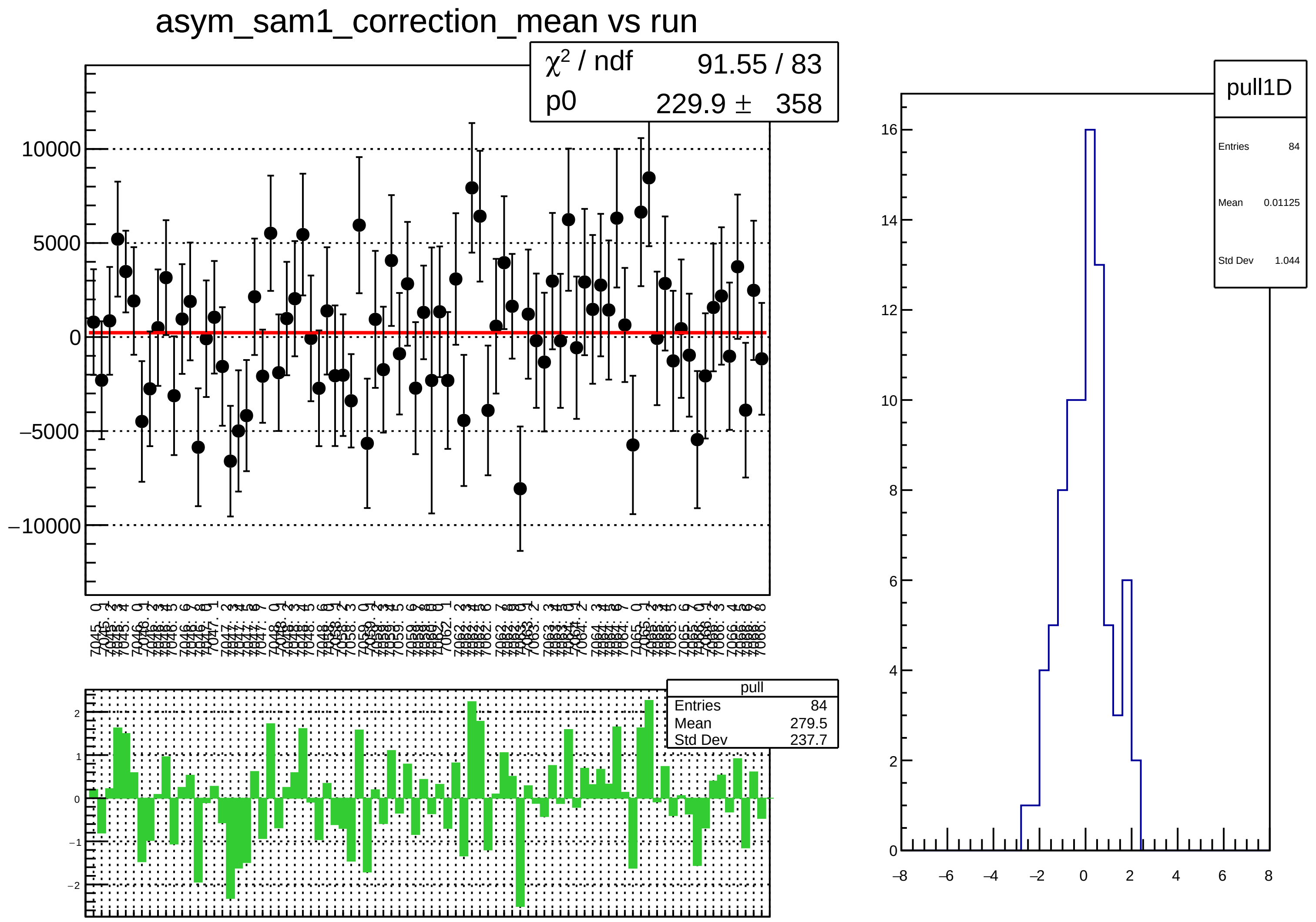





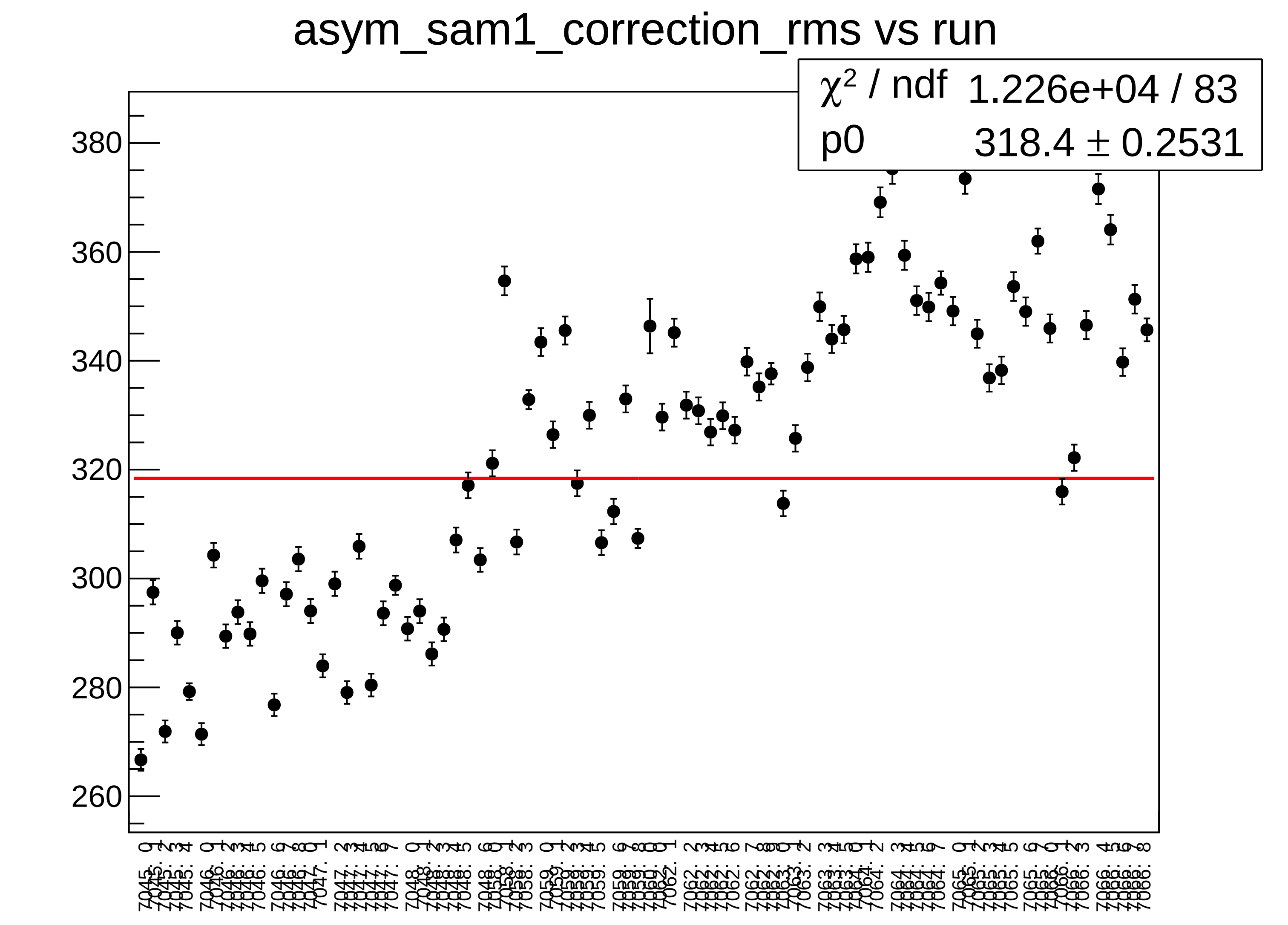
yield_sam8_rms vs run
$\chi^2$ / ndf 2.706e+05 / 83
p0 0.005868 ± 5.099e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

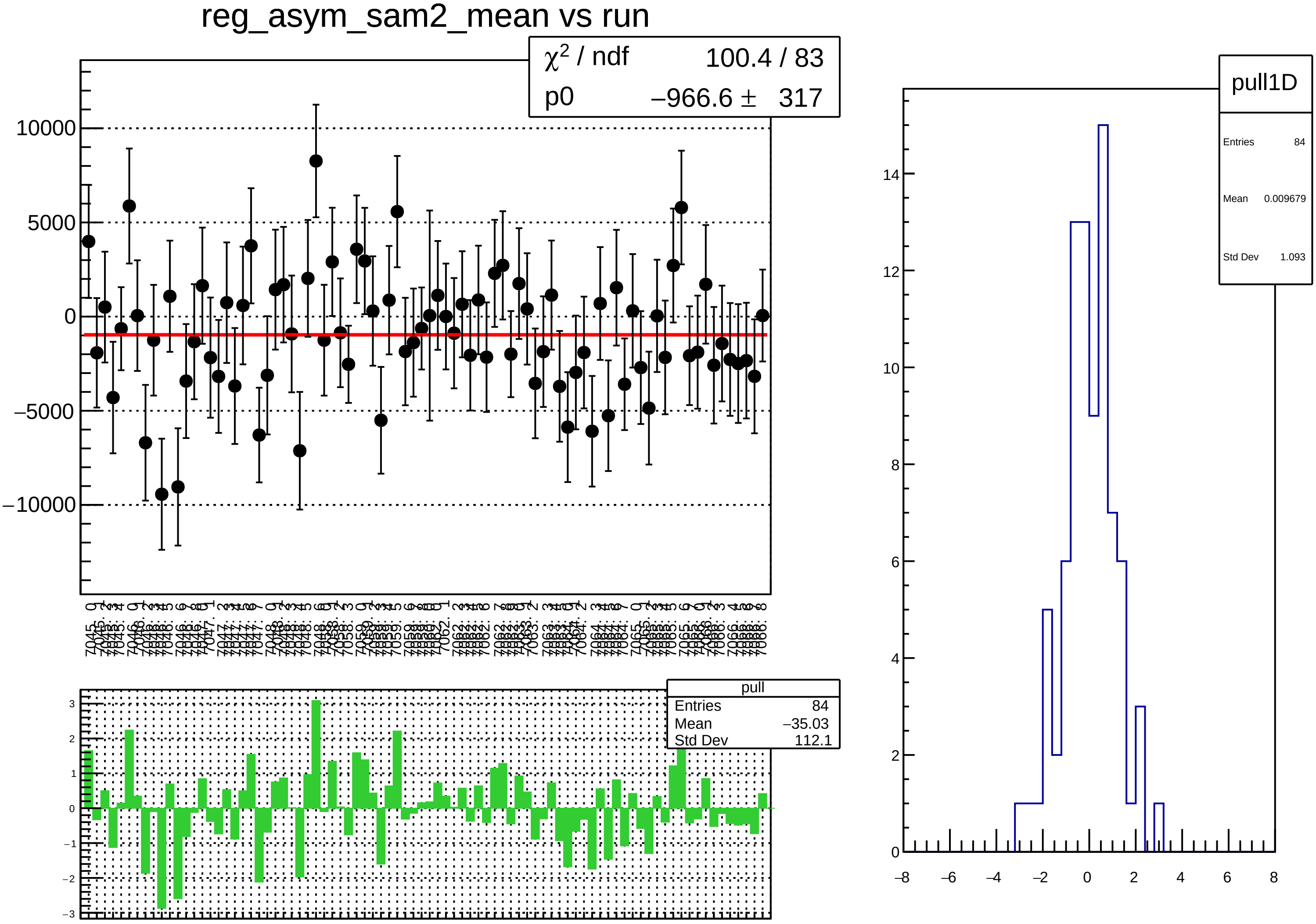

reg_asym_sam1_mean vs run
χ2 / ndf 71.78 / 83
p0 −292.1 ± 89.06
pull
Entries 84
Mean 39.46
Std Dev 52.47
pull1D
Entries 84
Mean 0.01211
Std Dev 0.9243

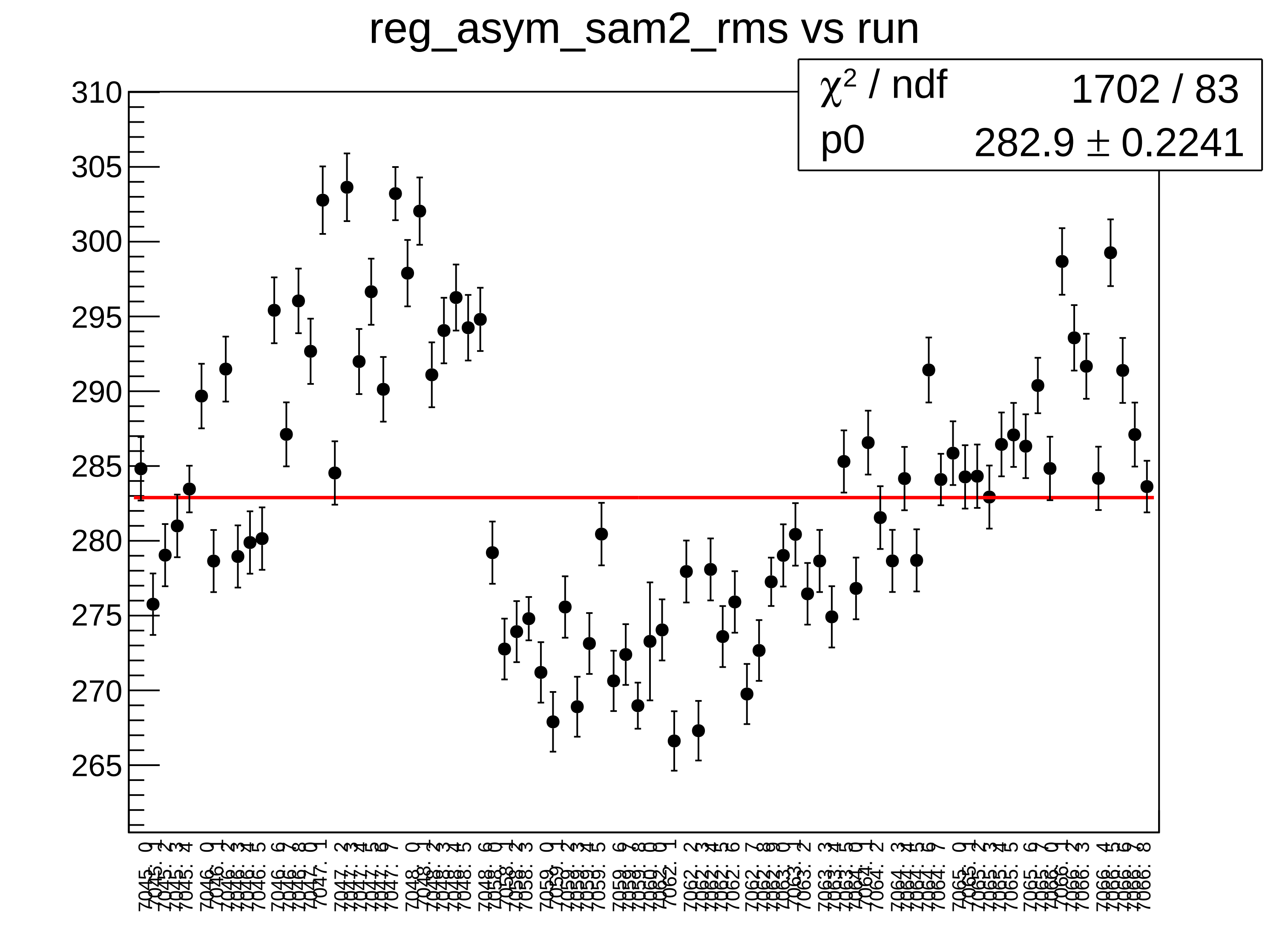

reg_asym_sam1_rms vs run
χ2 / ndf 1033 / 83
p0 79.5 ± 0.06297
84
82
80
78
76



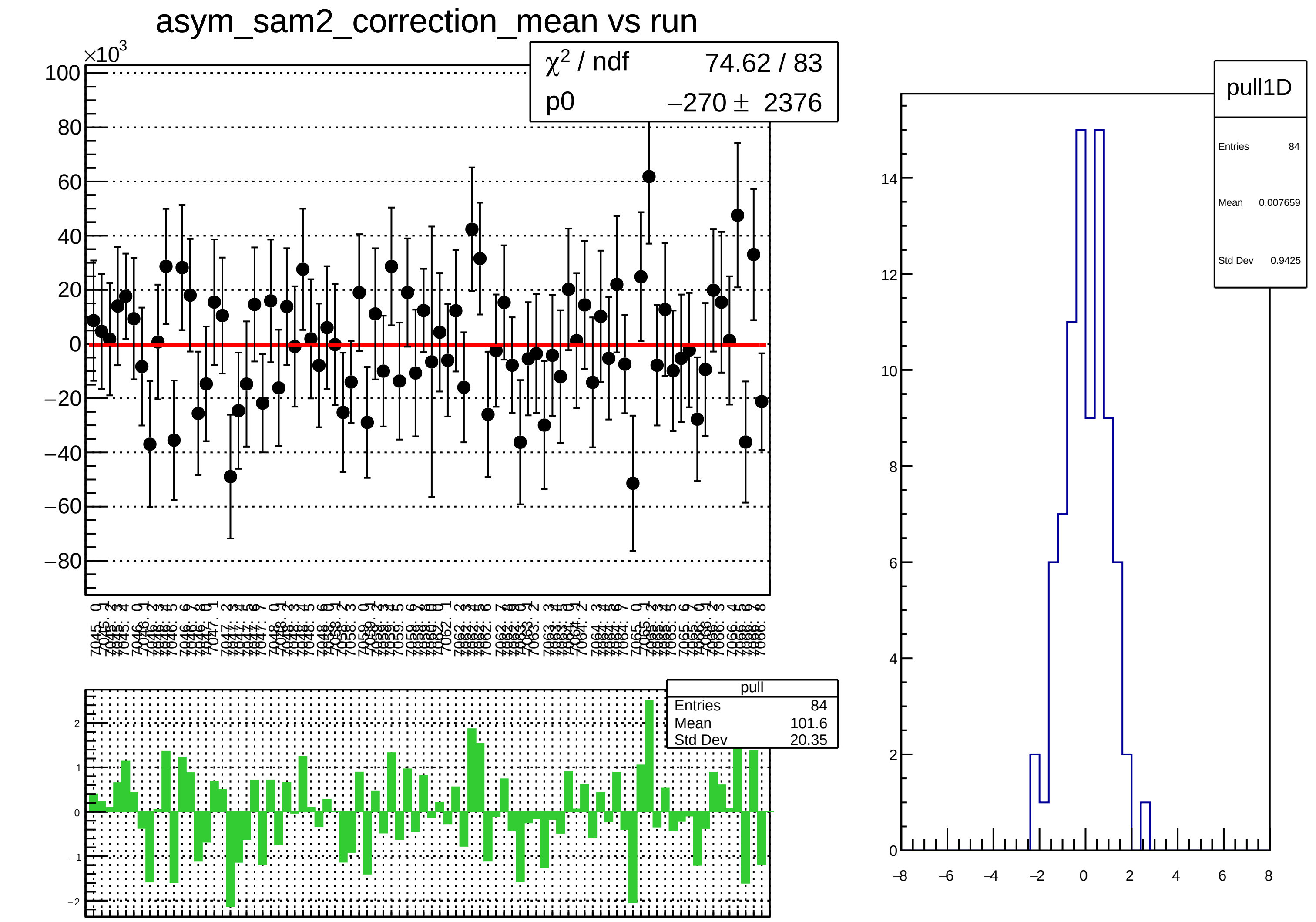
asym_sam1_correction_mean vs run
$\chi^2$ / ndf 91.55 / 83
p0 229.9 ± 358
pull
Entries 84
Mean 279.5
Std Dev 237.7
pull1D
Entries 84
Mean 0.01125
Std Dev 1.044

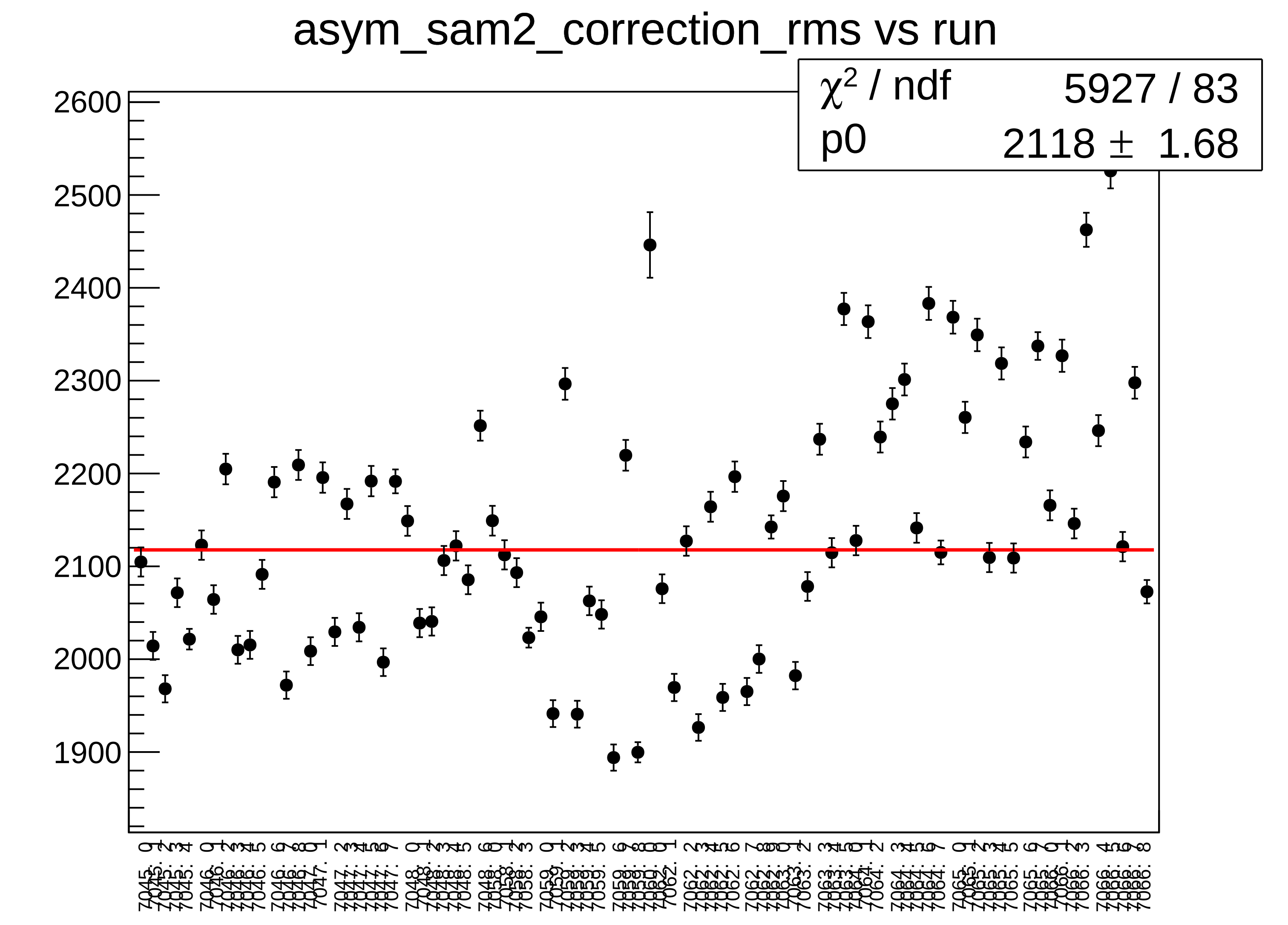

asym_sam1_correction_rms vs run
$\chi^2$ / ndf 1.226e+04 / 83
p0 318.4 ± 0.2531

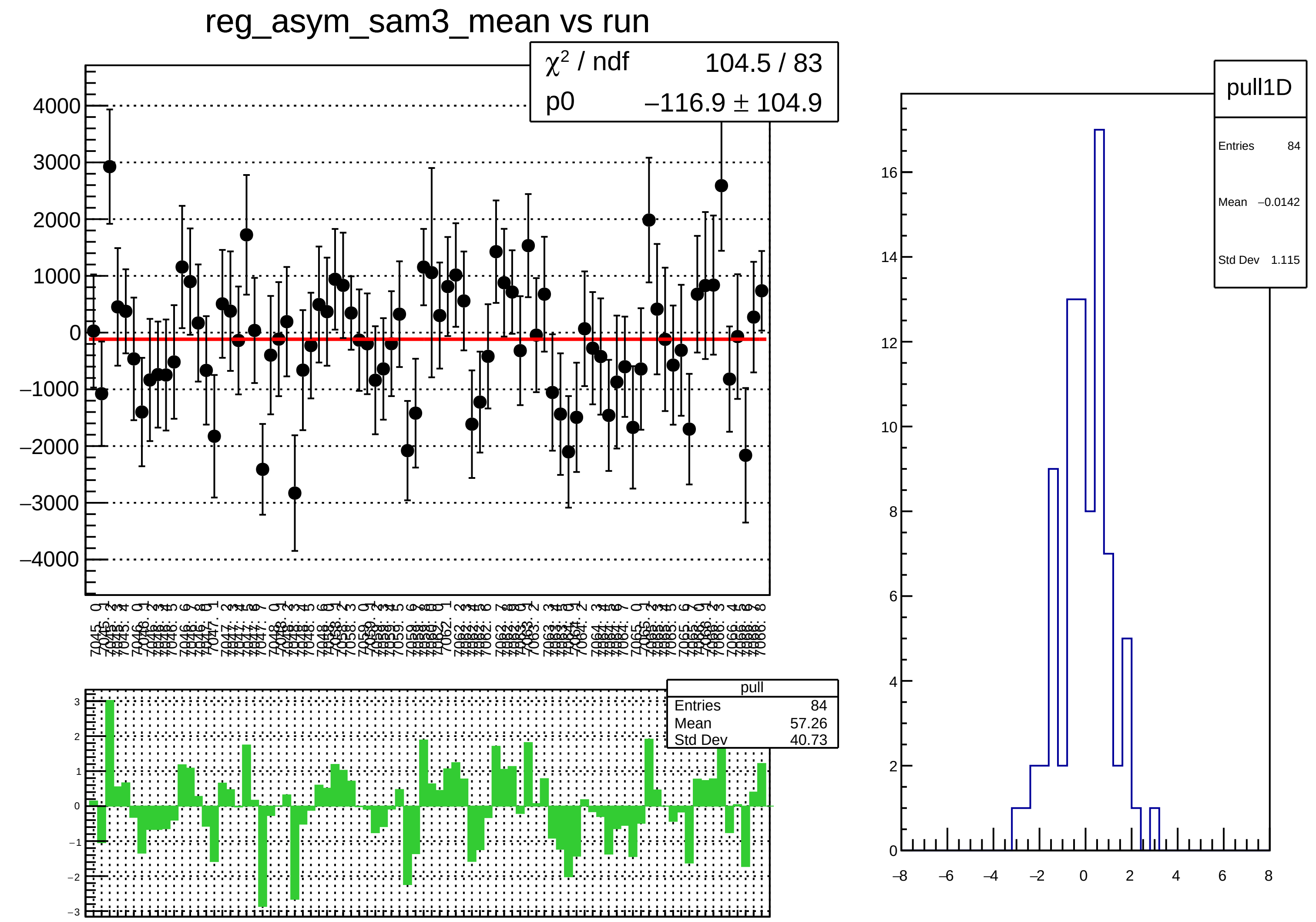

reg_asym_sam2_mean vs run
χ2 / ndf 100.4 / 83
p0 −966.6 ± 317
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −35.03
Std Dev 112.1
pull1D
Entries 84
Mean 0.009679
Std Dev 1.093



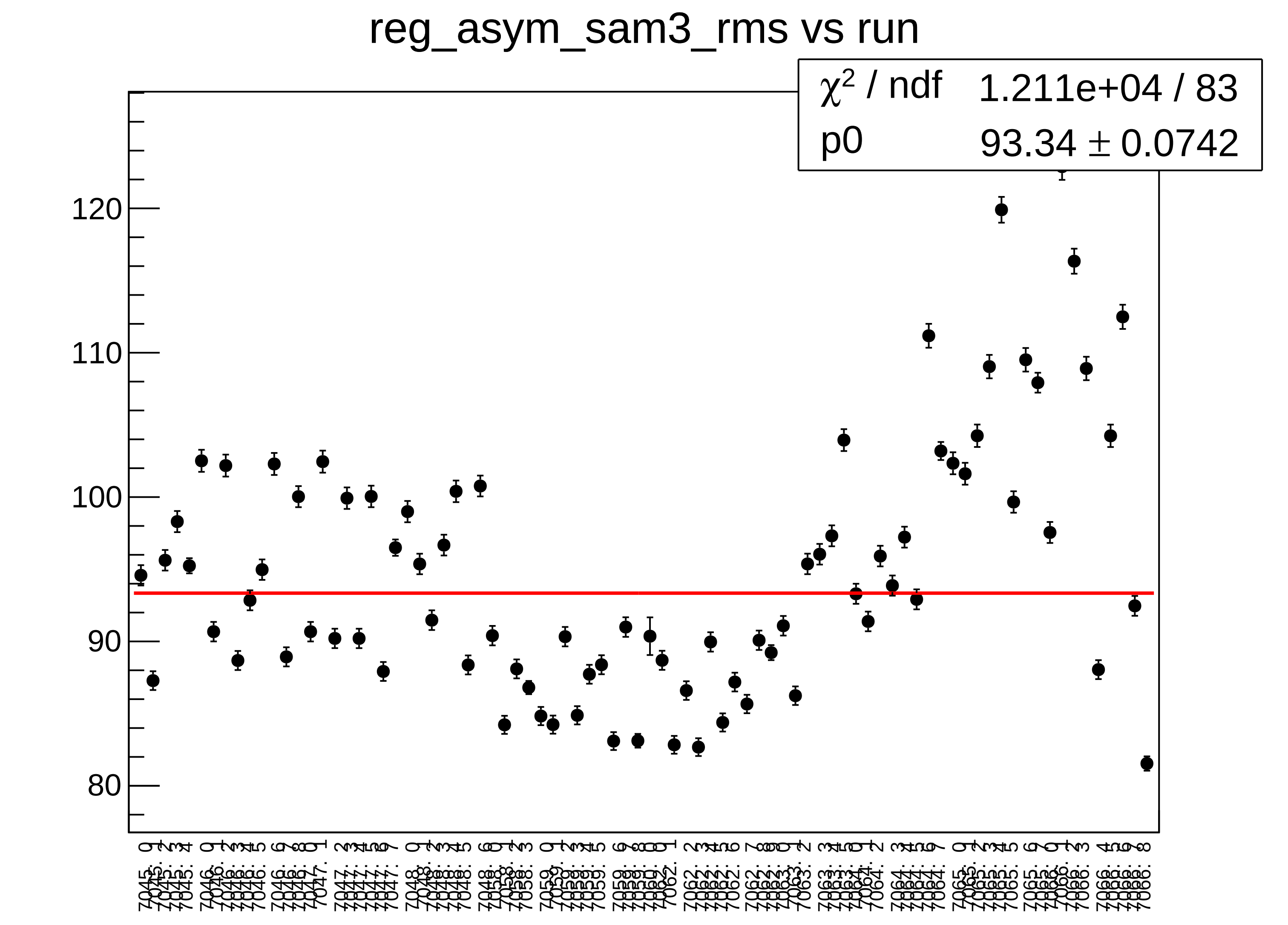
reg_asym_sam2_rms vs run
χ2 / ndf 1702 / 83
p0 282.9 ± 0.2241
310
305
300
295
290
285
280
275
270
265


asym_sam2_correction_mean vs run
$\chi^2$ / ndf 74.62 / 83
p0 −270 ± 2376
×10³
pull
Entries 84
Mean 101.6
Std Dev 20.35
pull1D
Entries 84
Mean 0.007659
Std Dev 0.9425

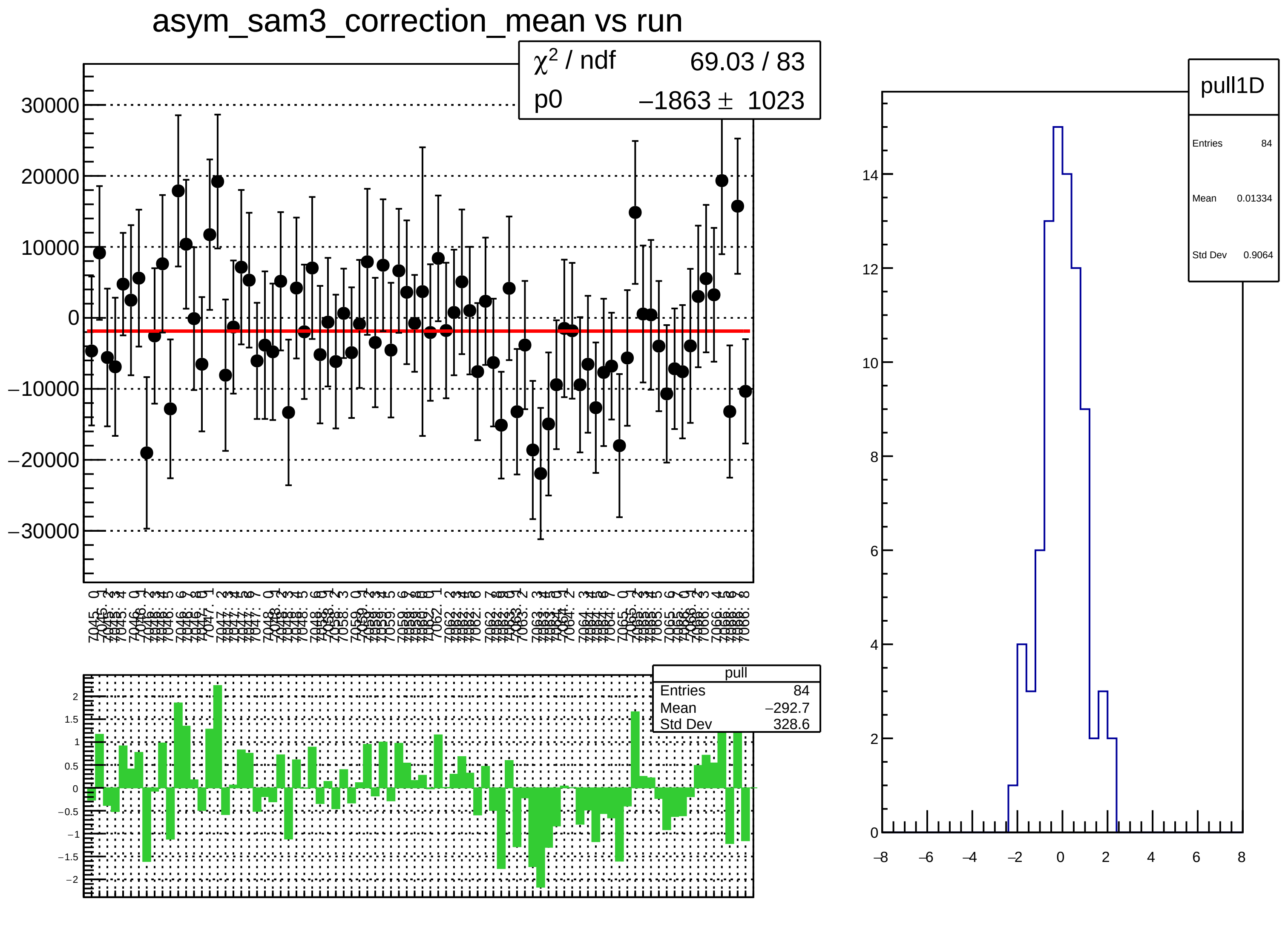

asym_sam2_correction_rms vs run
$\chi^2$ / ndf 5927 / 83
p0 2118 ± 1.68
2600
2500
2400
2300
2200
2100
2000
1900



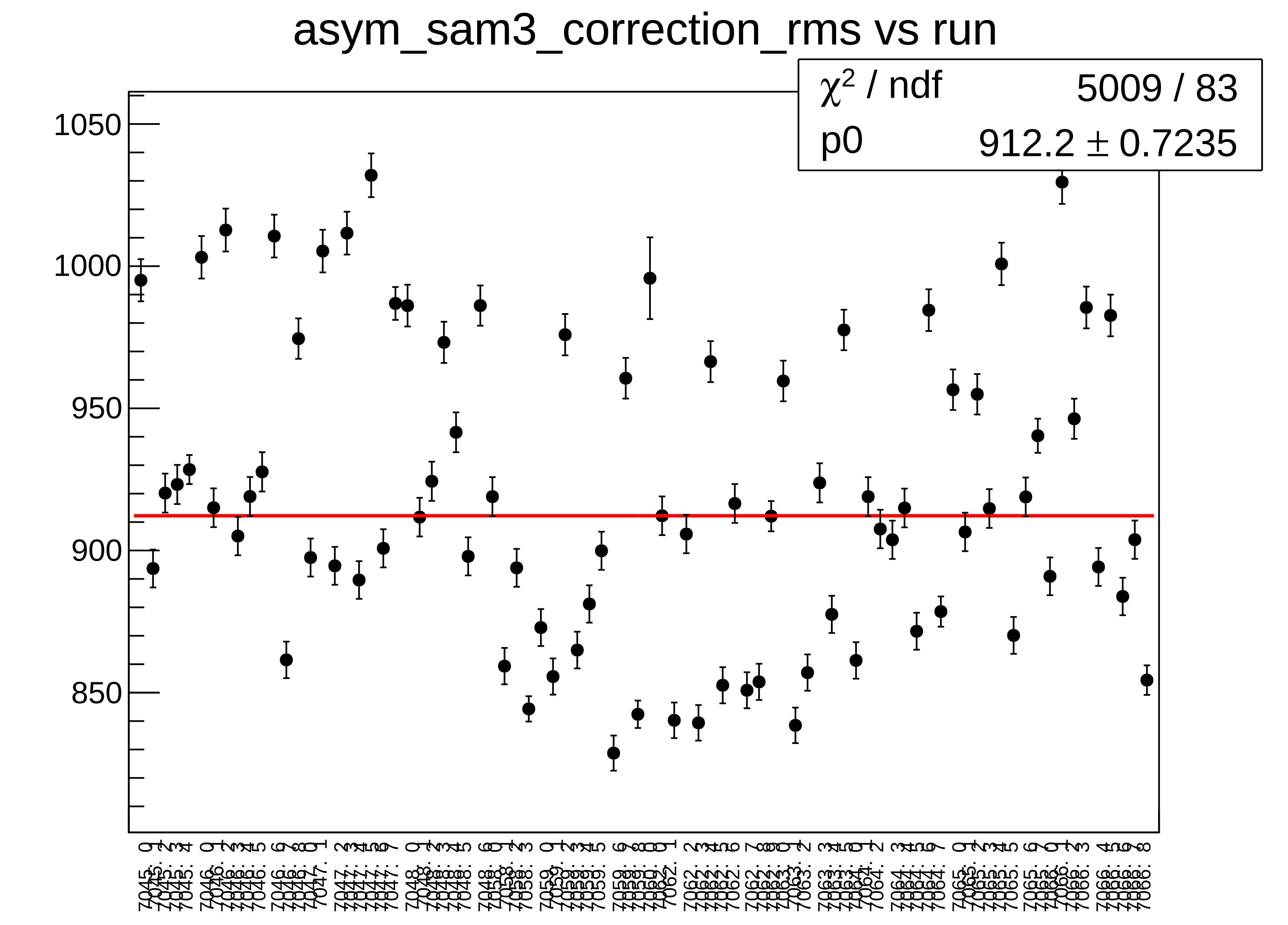
reg_asym_sam3_mean vs run
$\chi^2$ / ndf 104.5 / 83
p0 −116.9 ± 104.9
pull
Entries 84
Mean 57.26
Std Dev 40.73
pull1D
Entries 84
Mean −0.0142
Std Dev 1.115



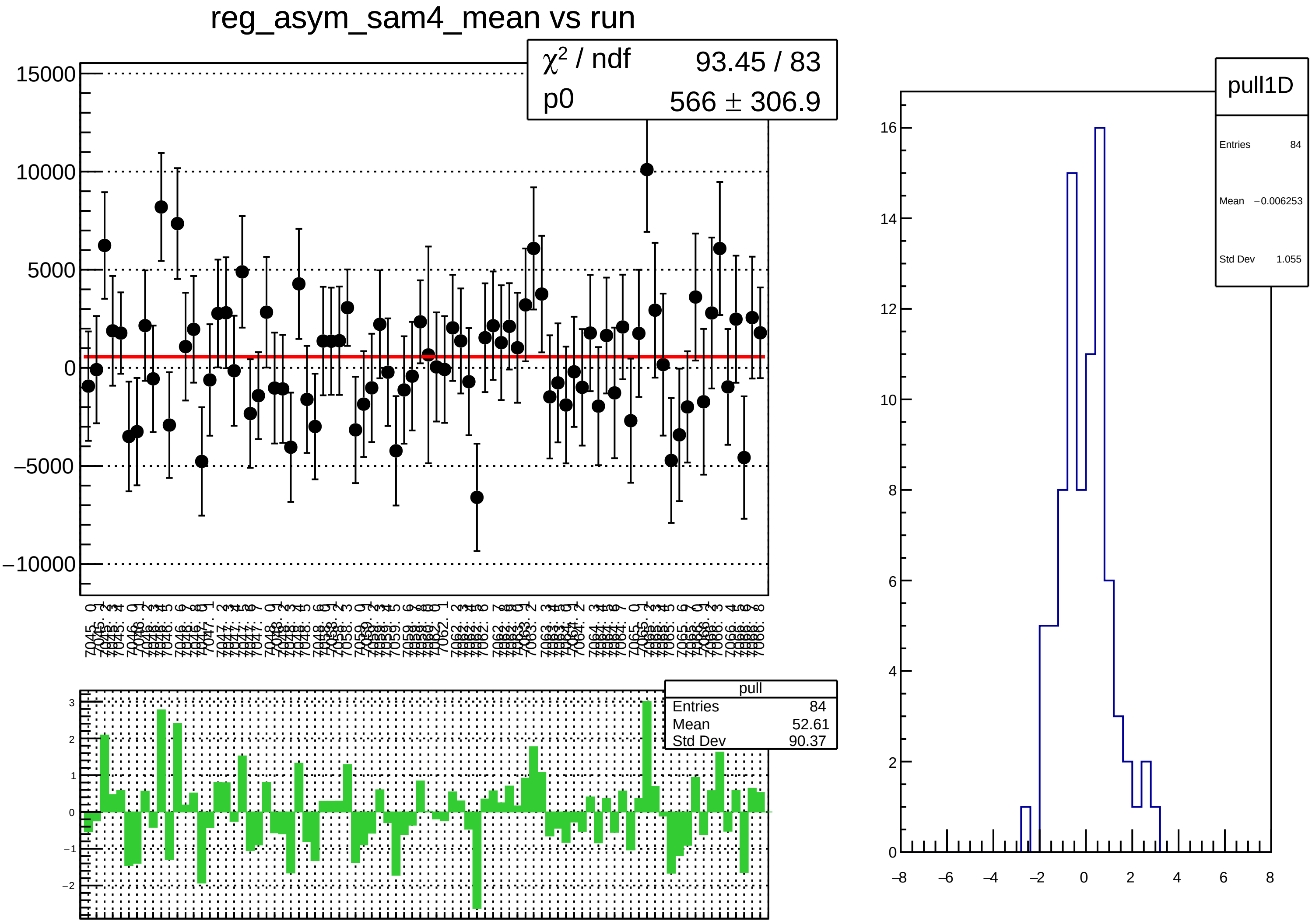
reg_asym_sam3_rms vs run
χ2 / ndf 1.211e+04 / 83
p0 93.34 ± 0.0742
120
110
100
90
80



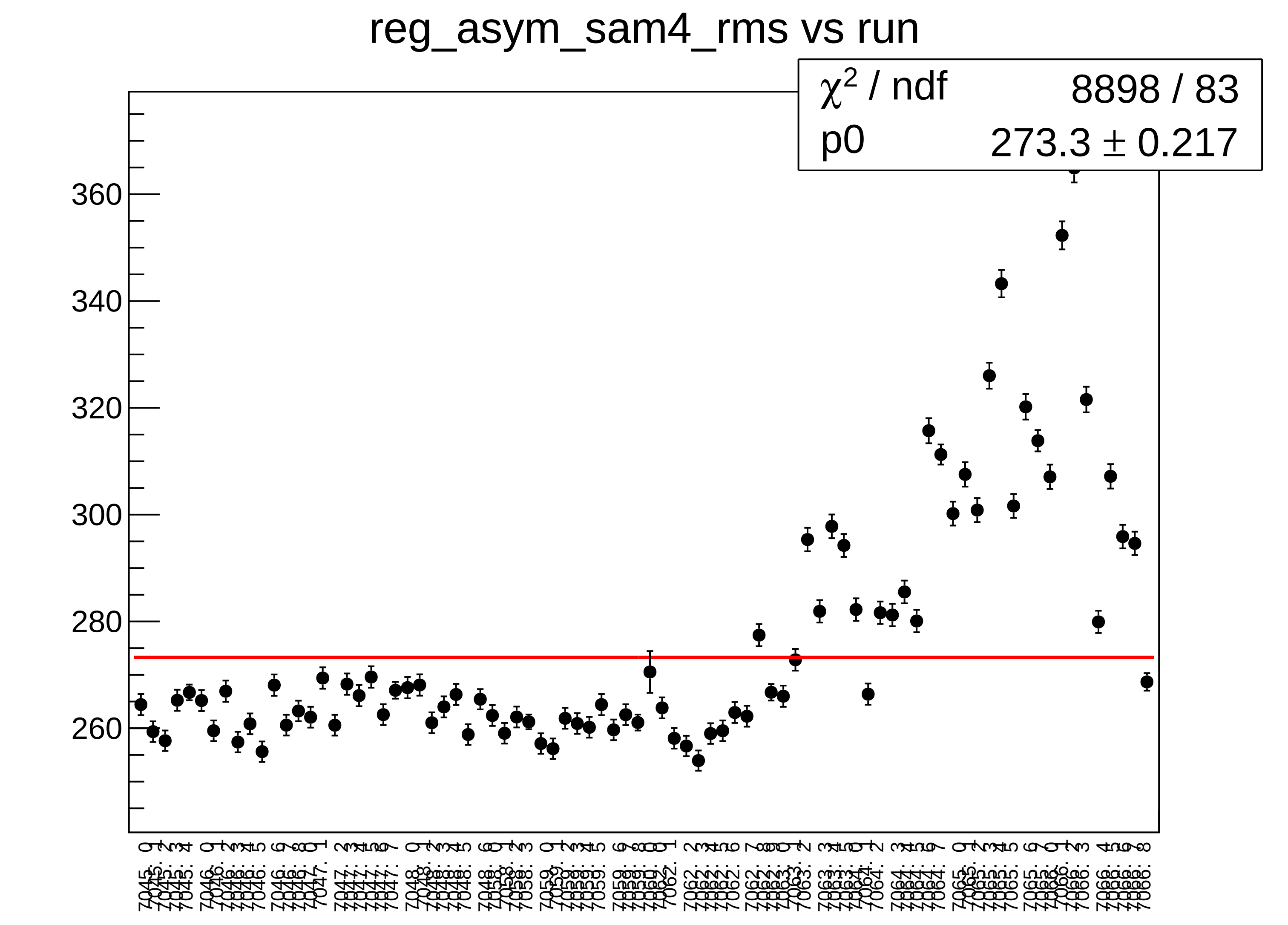
asym_sam3_correction_mean vs run
$\chi^2$ / ndf 69.03 / 83
p0 −1863 ± 1023
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −292.7
Std Dev 328.6
pull1D
Entries 84
Mean 0.01334
Std Dev 0.9064

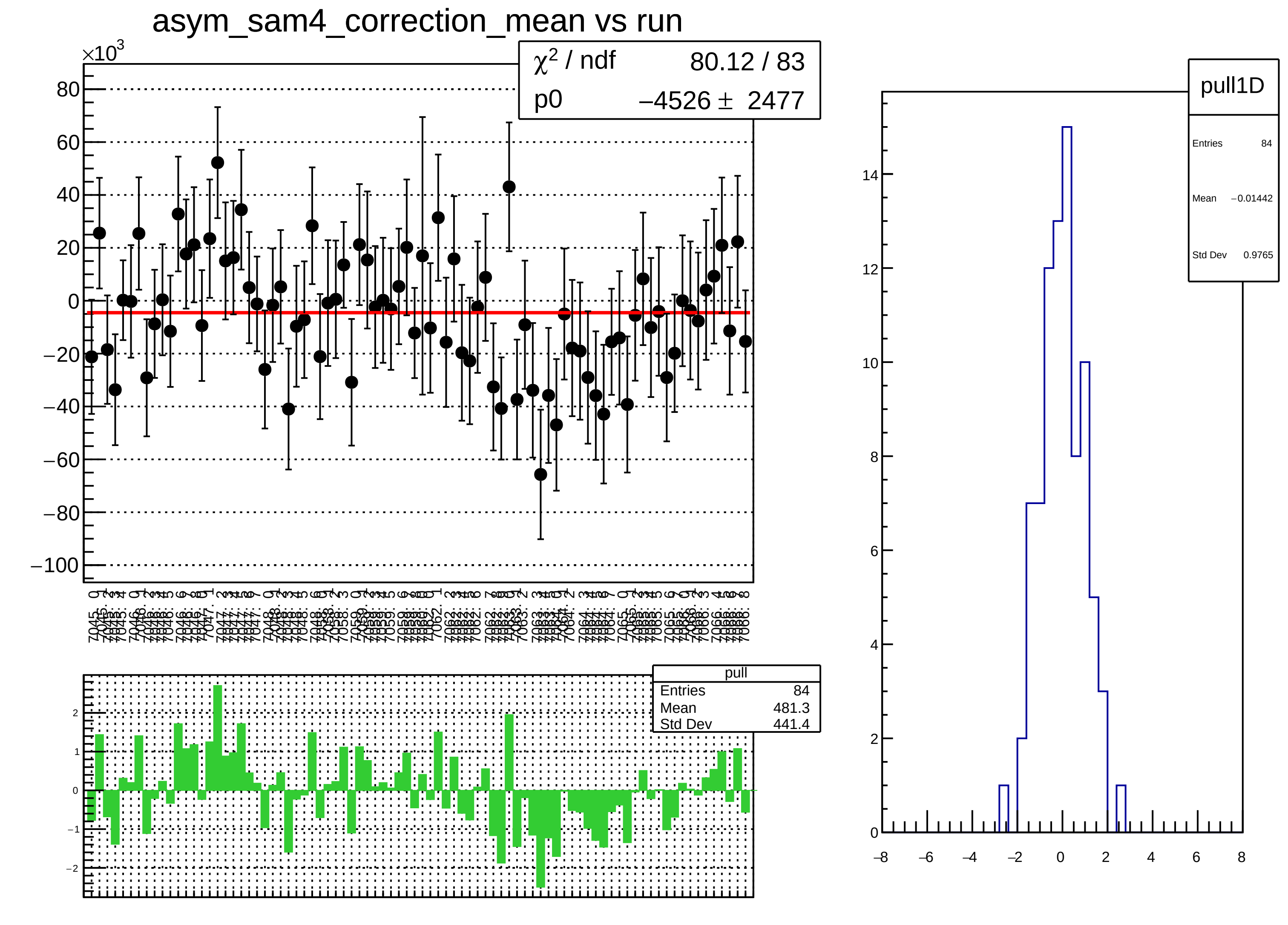


asym_sam3_correction_rms vs run
χ2 / ndf 5009 / 83
p0 912.2 ± 0.7235
1050
1000
950
900
850

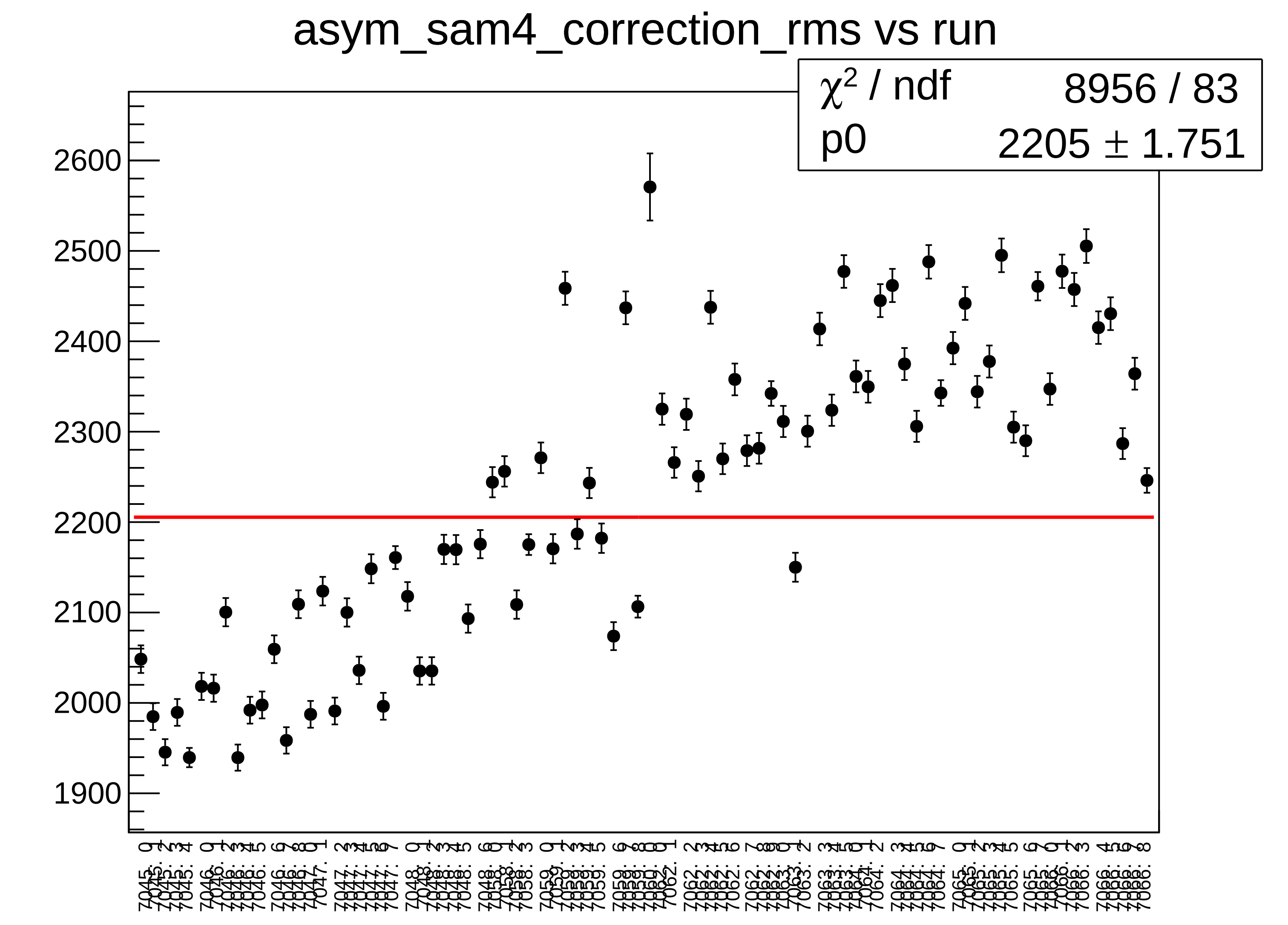


reg_asym_sam4_mean vs run
χ2 / ndf 93.45 / 83
p0 566 ± 306.9
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 52.61
Std Dev 90.37
pull1D
Entries 84
Mean −0.006253
Std Dev 1.055

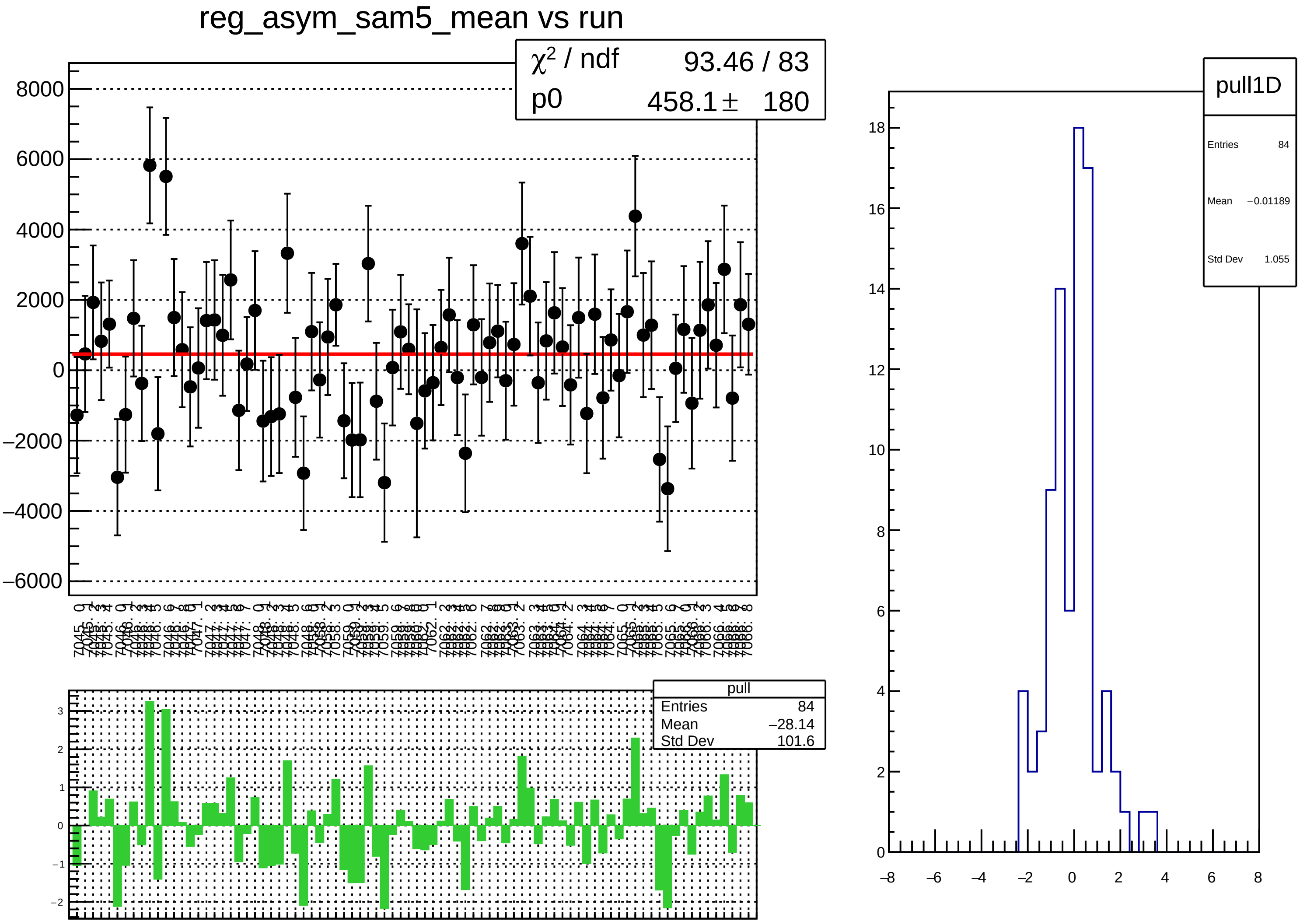

reg_asym_sam4_rms vs run
χ2 / ndf 8898 / 83
p0 273.3 ± 0.217



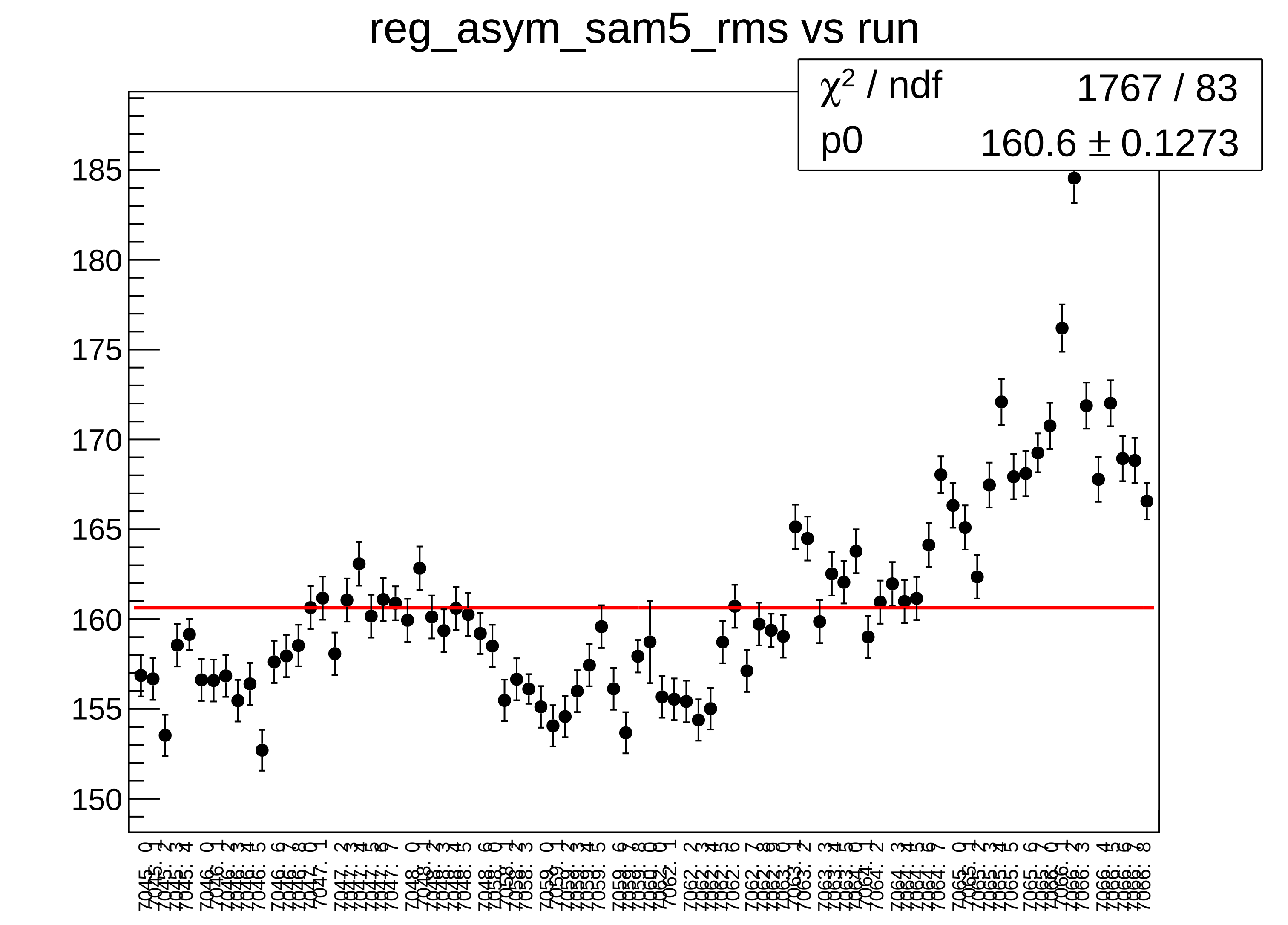
asym_sam4_correction_mean vs run
χ2 / ndf 80.12 / 83
p0 −4526 ± 2477
pull
Entries 84
Mean 481.3
Std Dev 441.4
pull1D
Entries 84
Mean −0.01442
Std Dev 0.9765

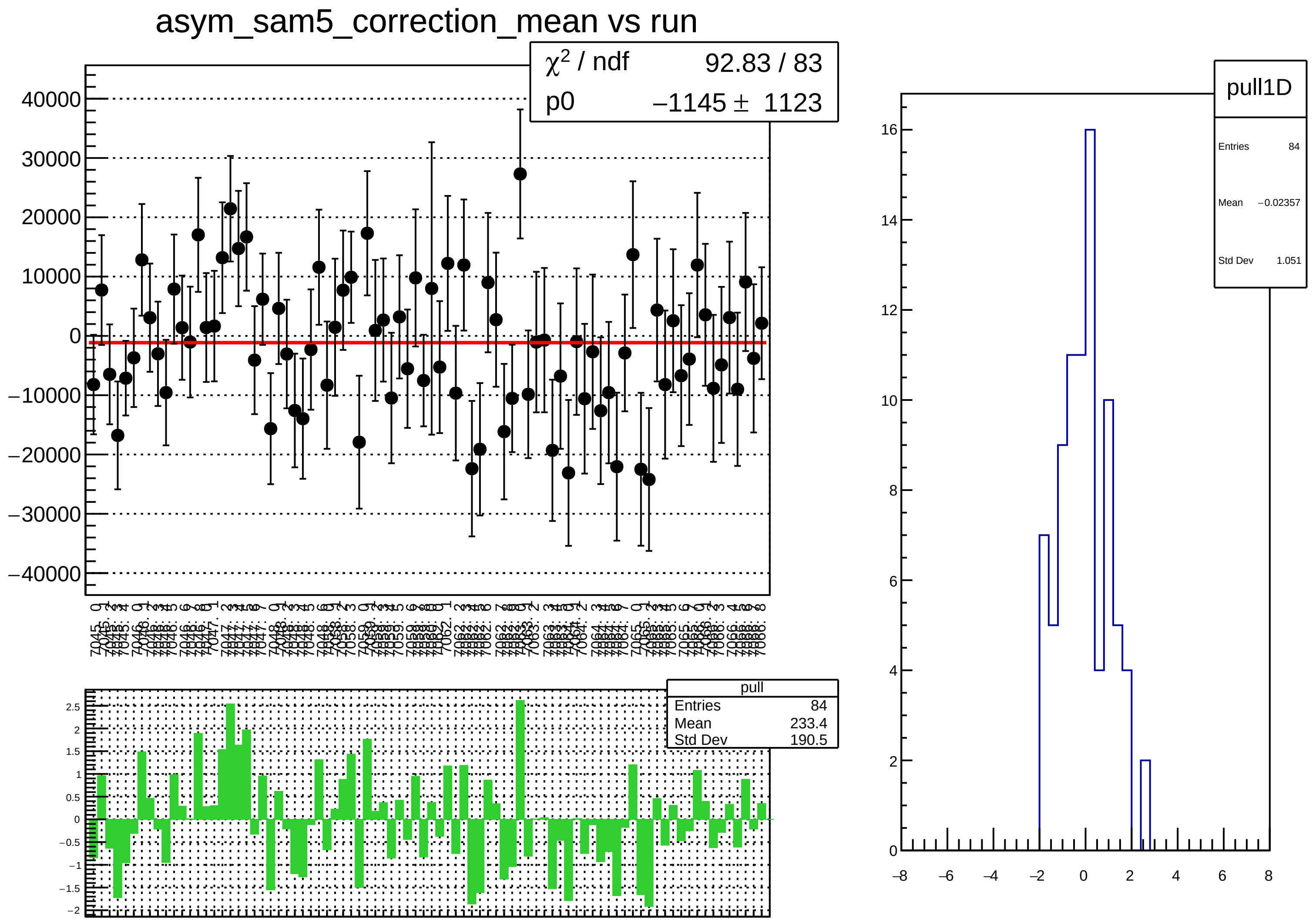


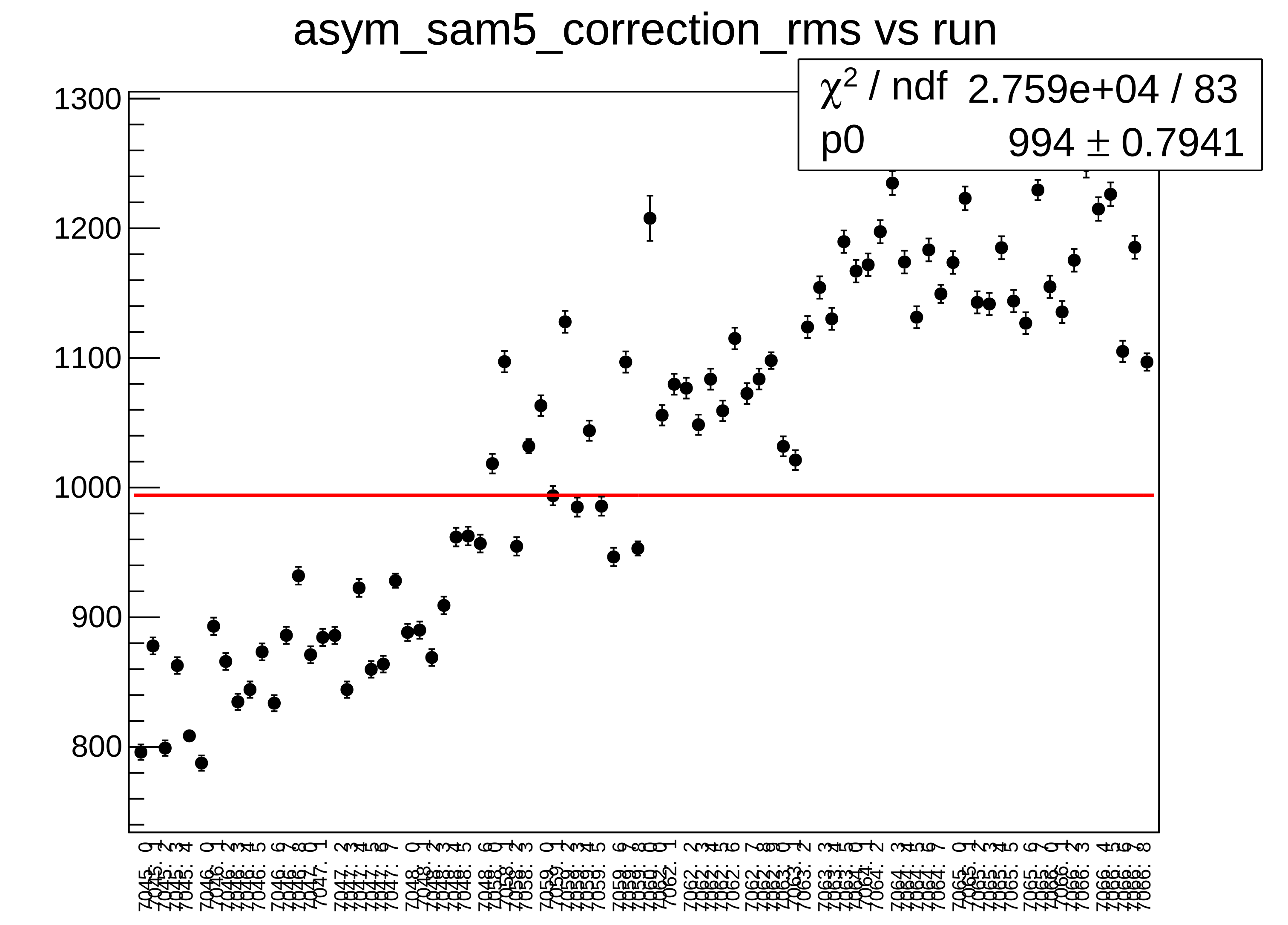
asym_sam4_correction_rms vs run
$\chi^2$ / ndf 8956 / 83
p0 2205 ± 1.751



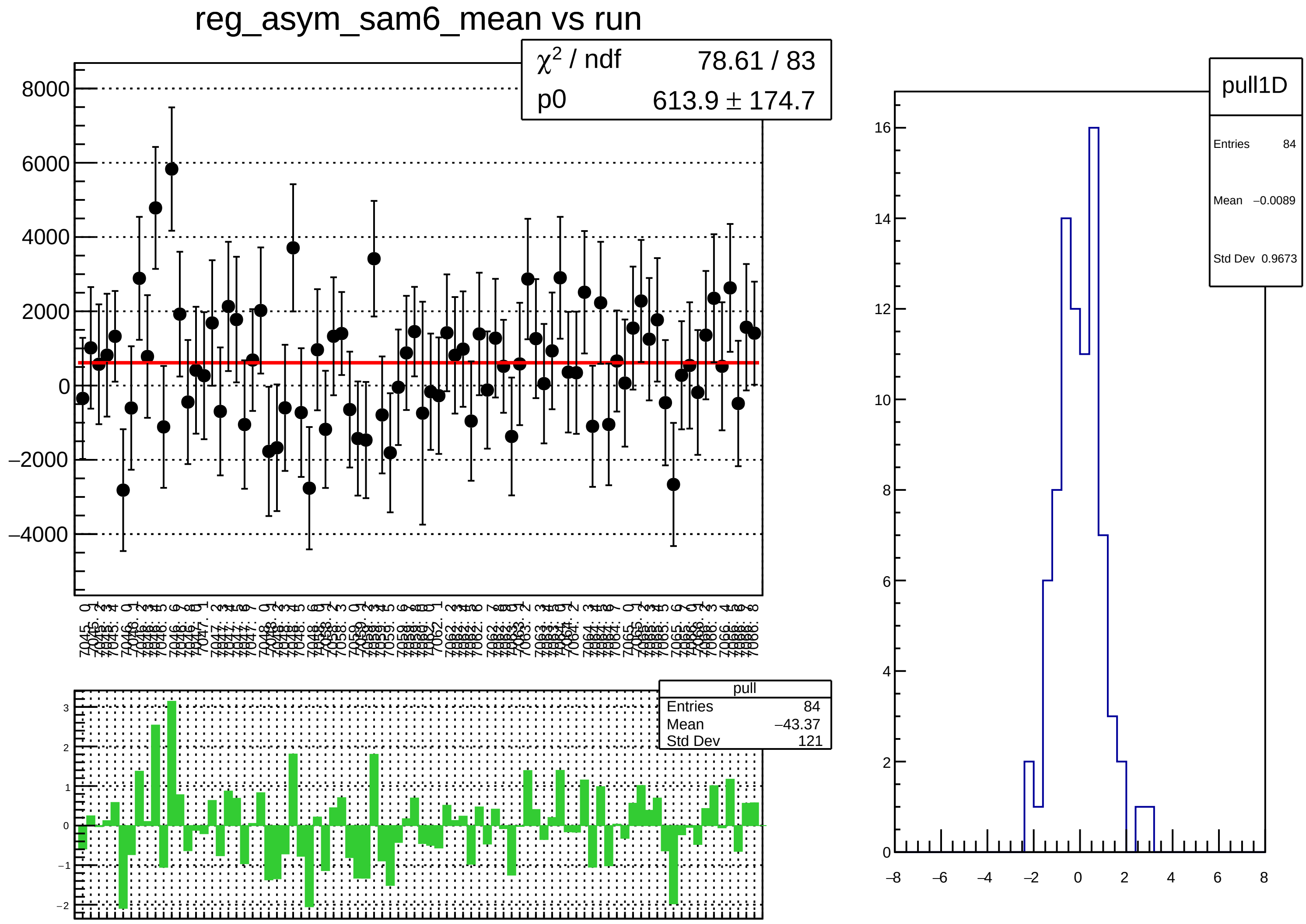
reg_asym_sam5_mean vs run
χ2 / ndf 93.46 / 83
p0 458.1 ± 180
pull
Entries 84
Mean −28.14
Std Dev 101.6
pull1D
Entries 84
Mean −0.01189
Std Dev 1.055


reg_asym_sam5_rms vs run
$\chi^2$ / ndf 1767 / 83
p0 160.6 ± 0.1273
185
180
175
170
165
160
155
150

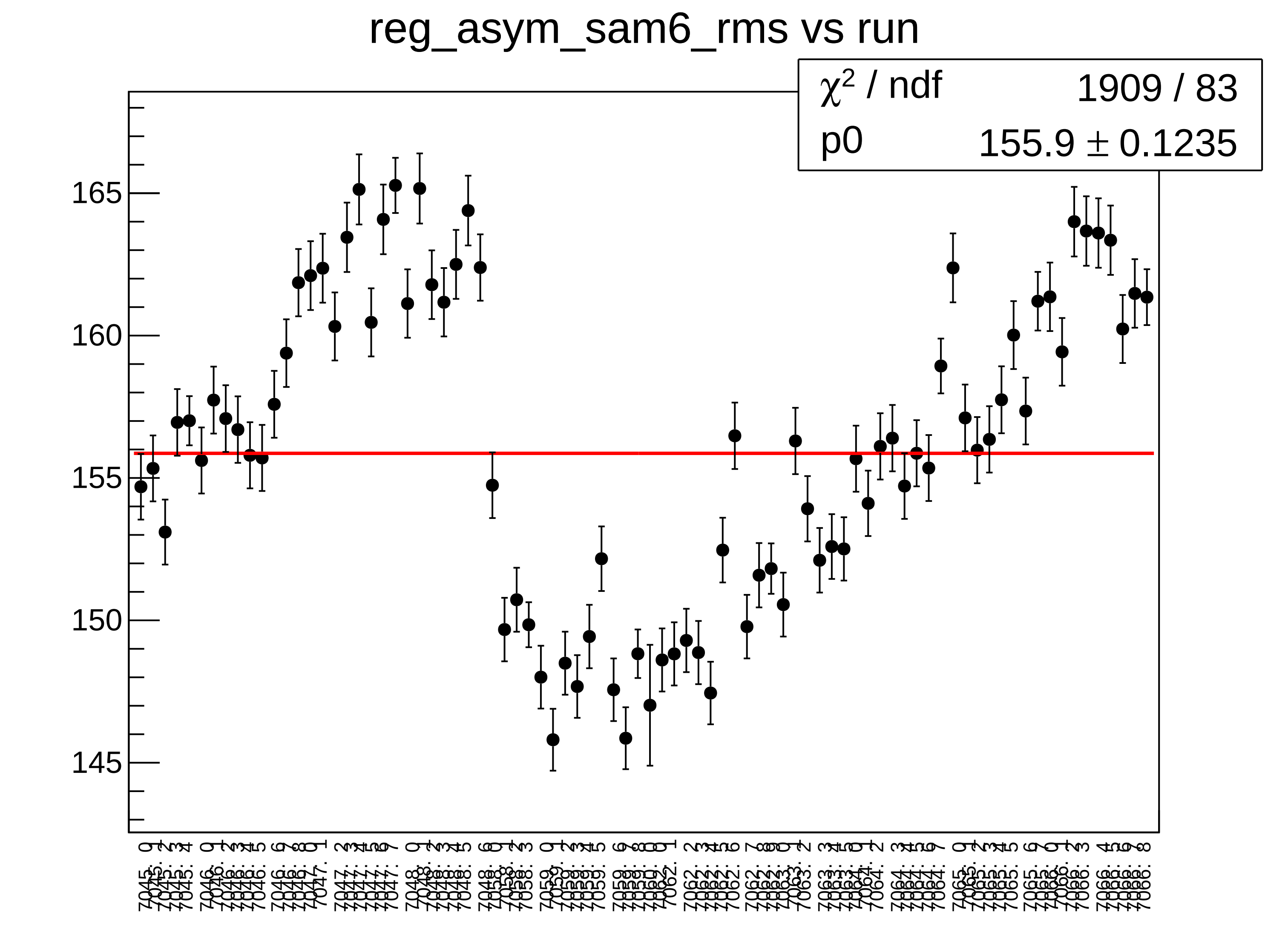

asym_sam5_correction_mean vs run
χ2 / ndf 92.83 / 83
p0 −1145 ± 1123
pull
Entries 84
Mean 233.4
Std Dev 190.5
pull1D
Entries 84
Mean −0.02357
Std Dev 1.051



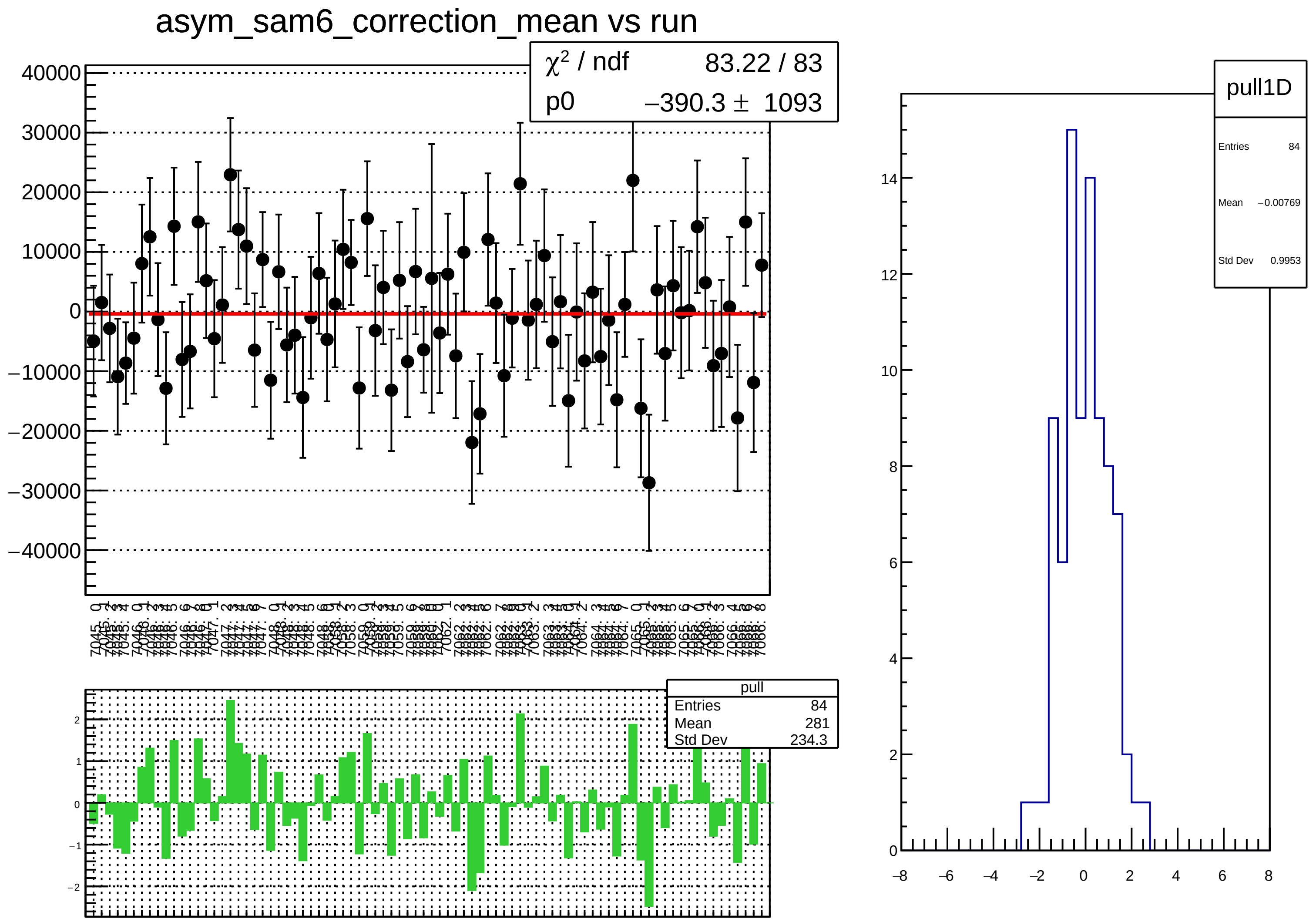
asym_sam5_correction_rms vs run
$\chi^2$ / ndf 2.759e+04 / 83
p0 994 ± 0.7941
1300
1200
1100
1000
900
800



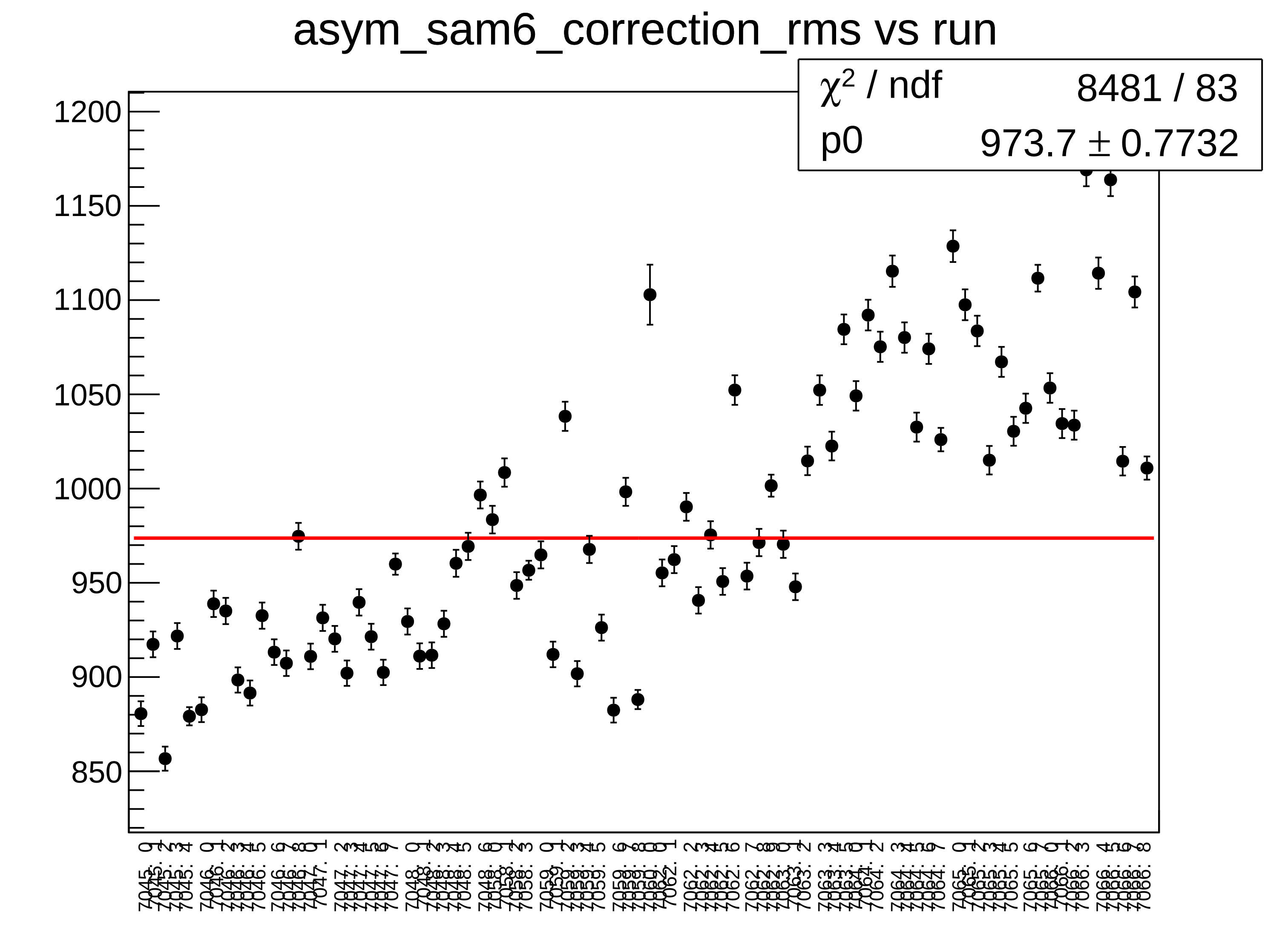
reg_asym_sam6_mean vs run
$\chi^2$ / ndf 78.61 / 83
p0 613.9 ± 174.7
pull
Entries 84
Mean −43.37
Std Dev 121
pull1D
Entries 84
Mean −0.0089
Std Dev 0.9673



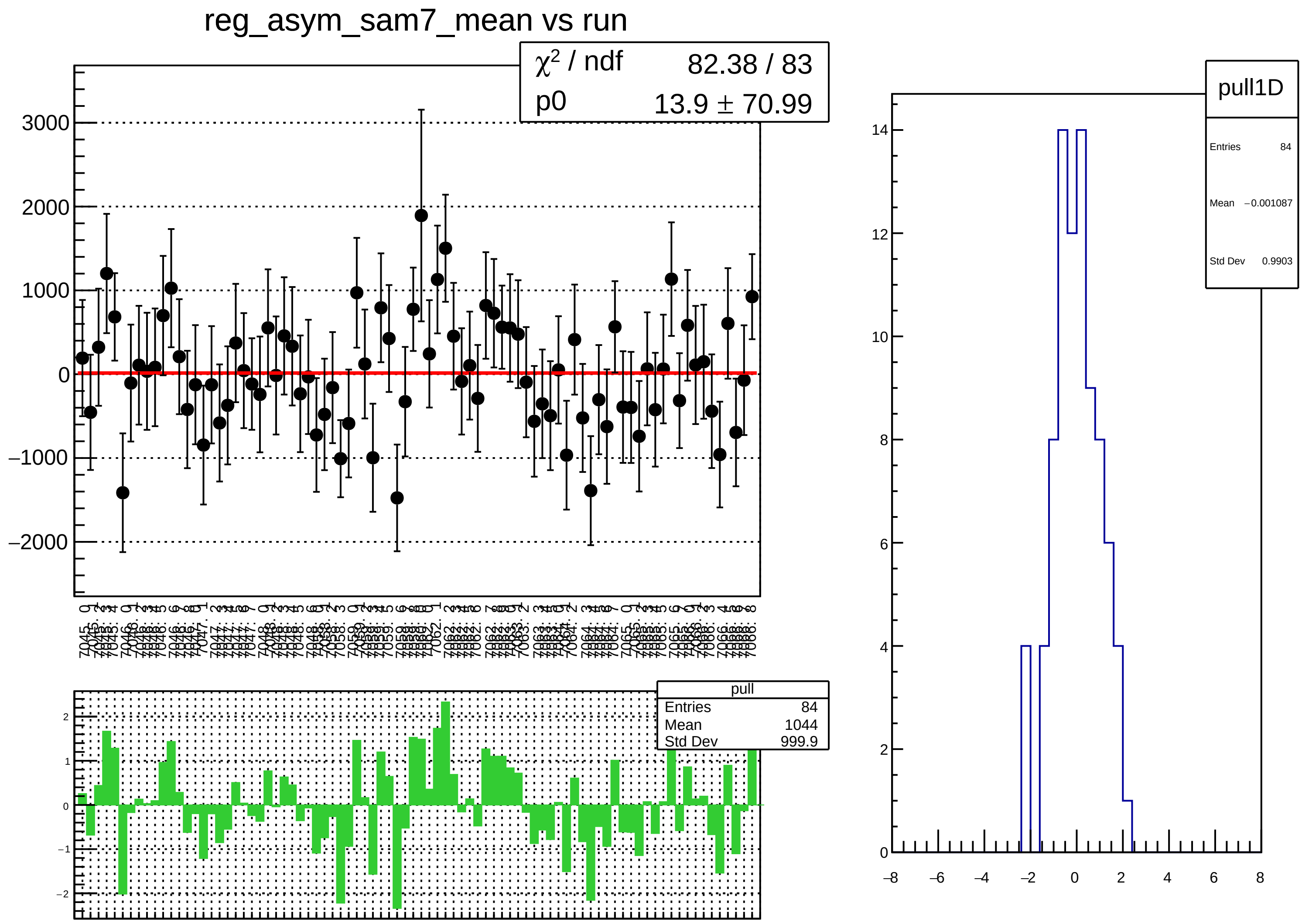
reg_asym_sam6_rms vs run
$\chi^2$ / ndf 1909 / 83
p0 155.9 ± 0.1235
165
160
155
150
145



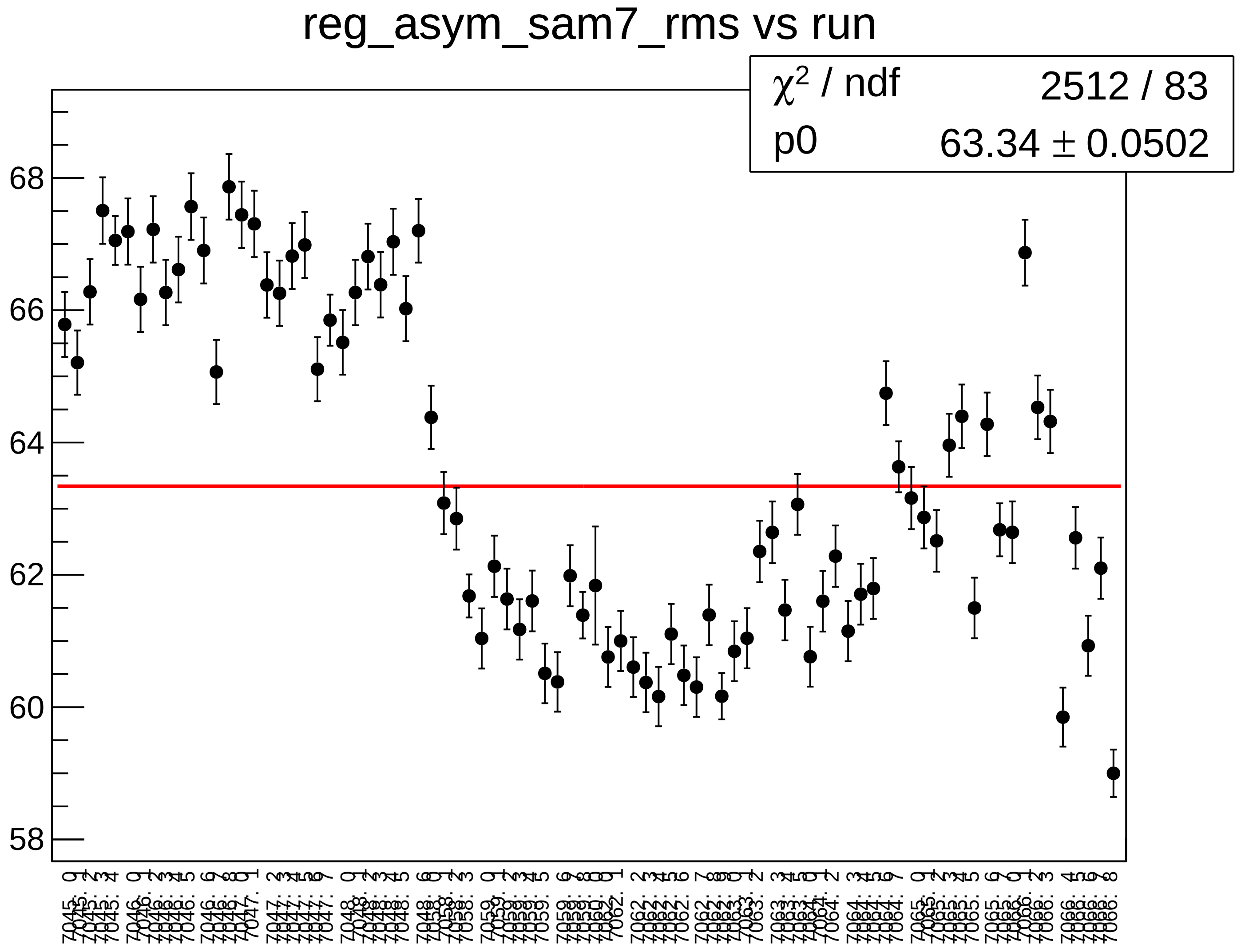
asym_sam6_correction_mean vs run
$\chi^2$ / ndf 83.22 / 83
p0 −390.3 ± 1093
pull
Entries 84
Mean 281
Std Dev 234.3
pull1D
Entries 84
Mean −0.00769
Std Dev 0.9953

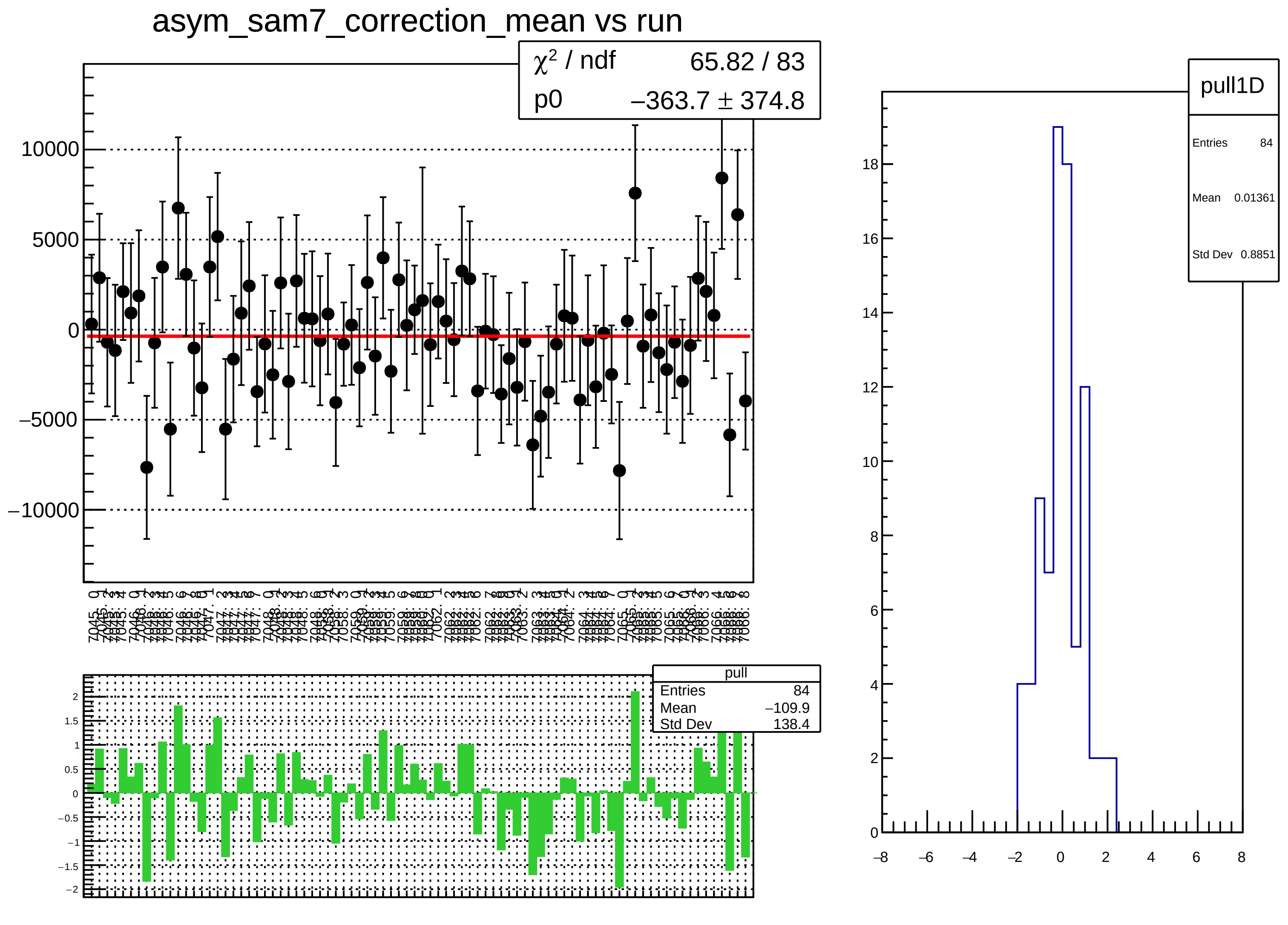


asym_sam6_correction_rms vs run
χ² / ndf 8481 / 83
p0 973.7 ± 0.7732
1200
1150
1100
1050
1000
950
900
850

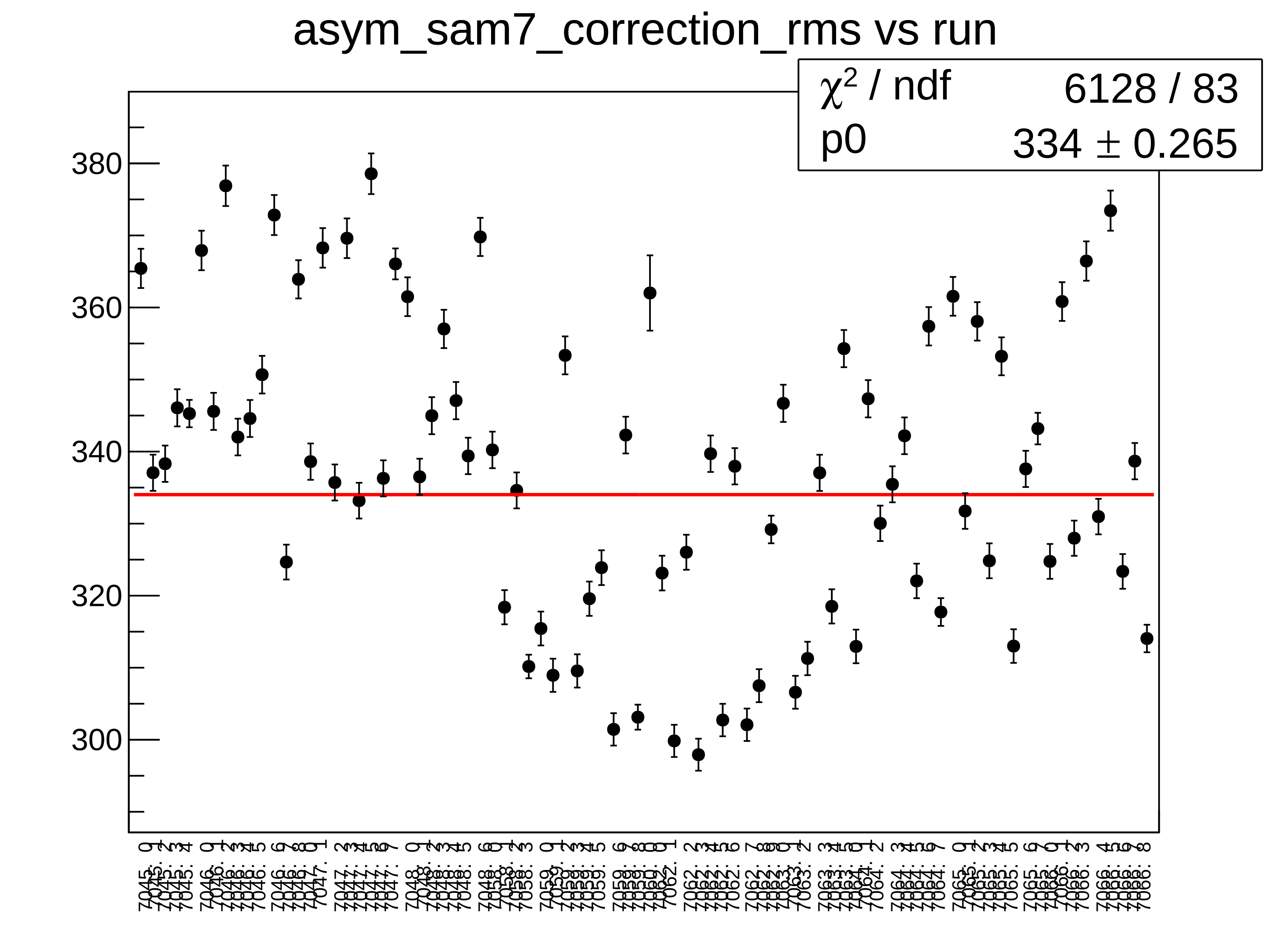


reg_asym_sam7_mean vs run
$\chi^2$ / ndf 82.38 / 83
p0 13.9 ± 70.99
pull
Entries 84
Mean 1044
Std Dev 999.9
pull1D
Entries 84
Mean −0.001087
Std Dev 0.9903

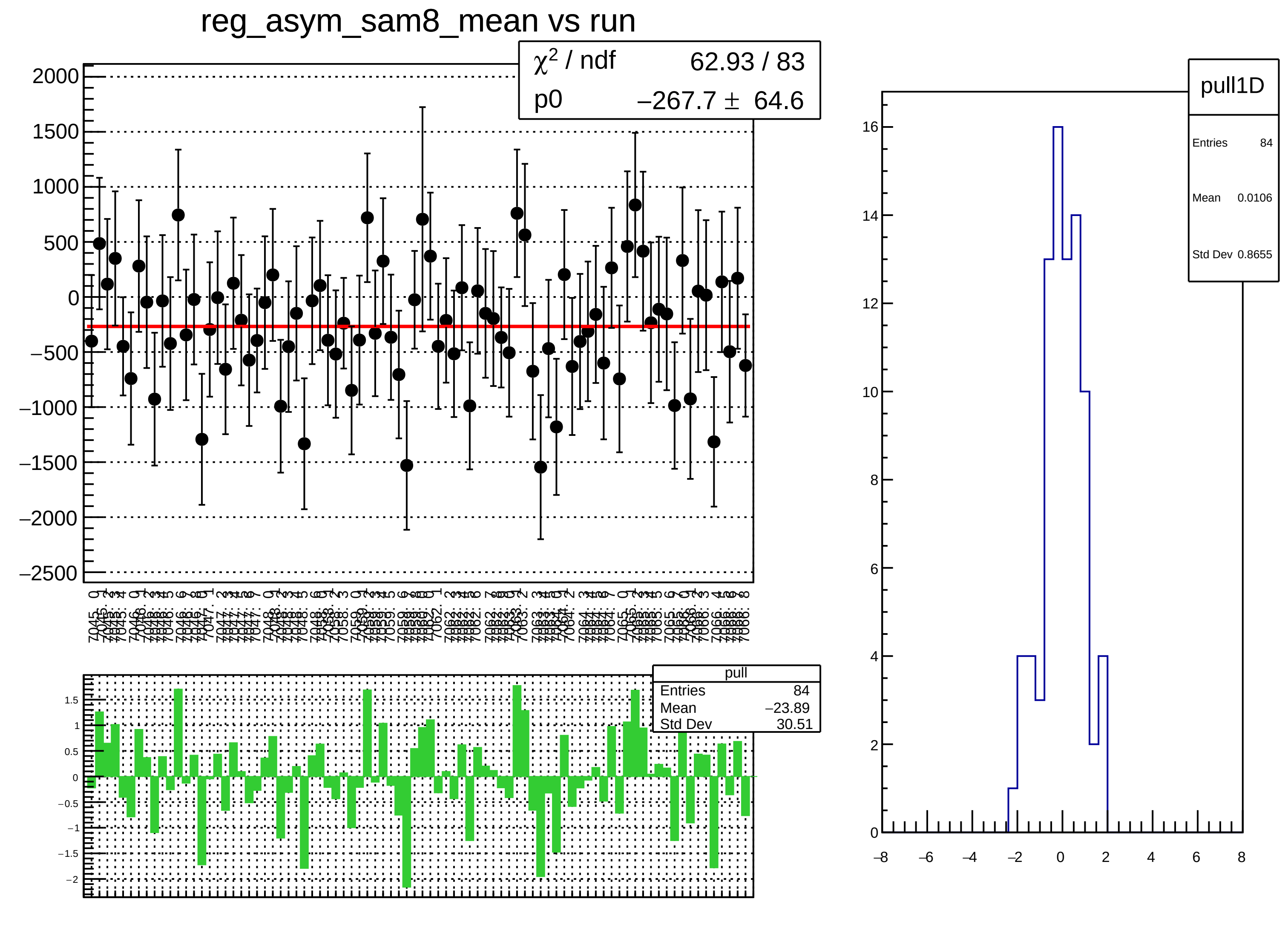

reg_asym_sam7_rms vs run
χ2 / ndf 2512 / 83
p0 63.34 ± 0.0502
68
66
64
62
60
58

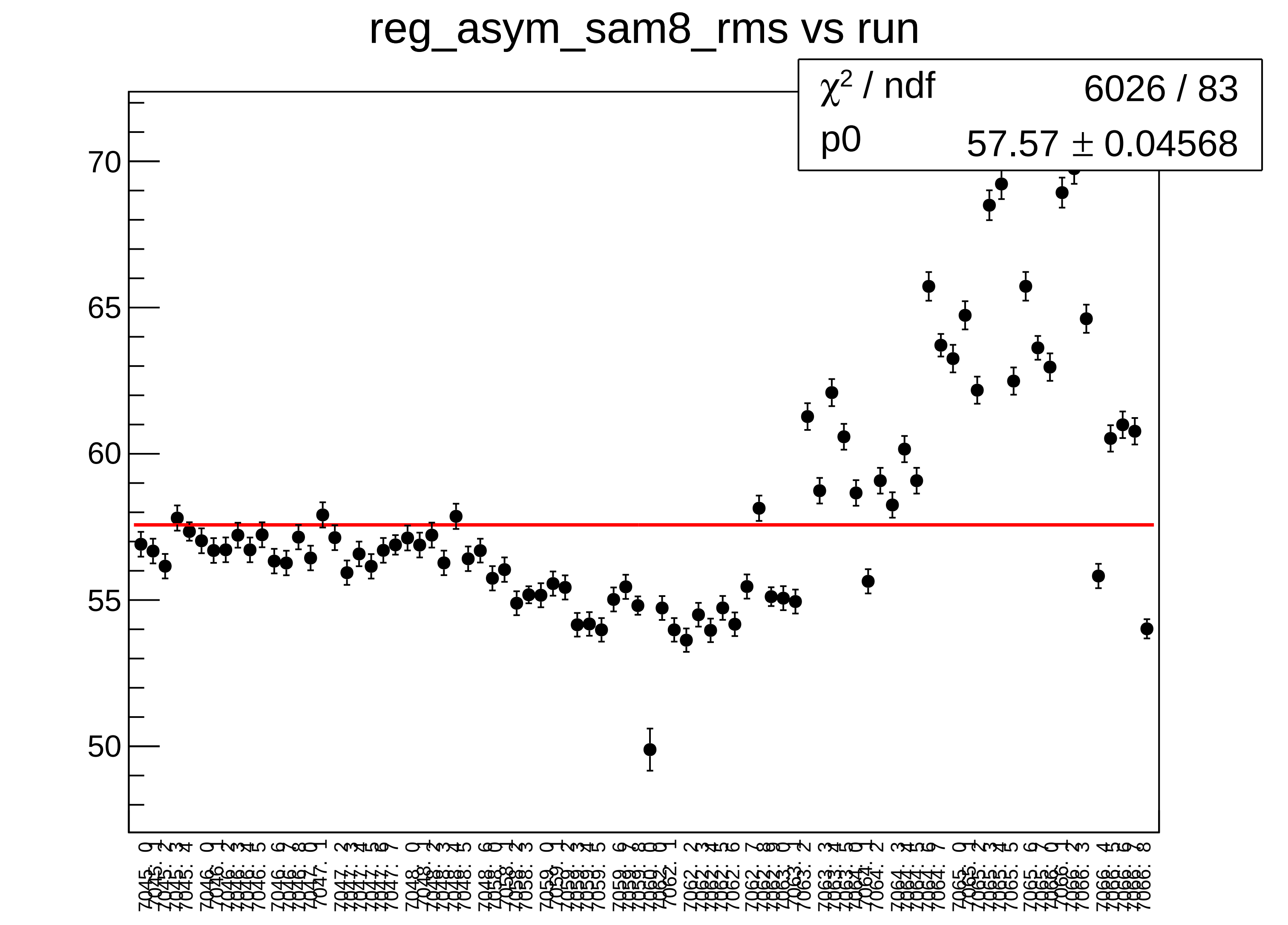


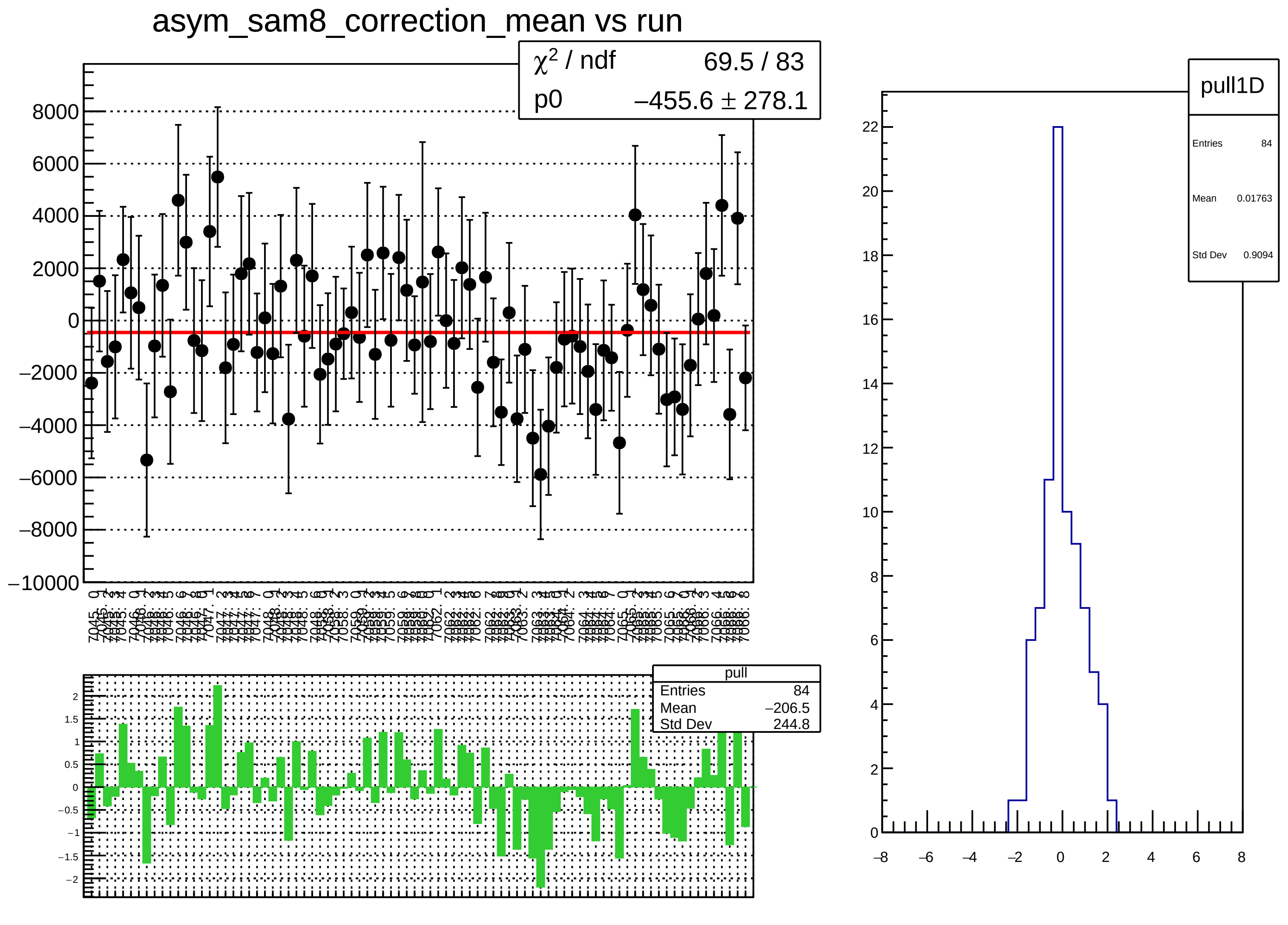
asym_sam7_correction_mean vs run
$\chi^2$ / ndf 65.82 / 83
p0 −363.7 ± 374.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −109.9
Std Dev 138.4
pull1D
Entries 84
Mean 0.01361
Std Dev 0.8851



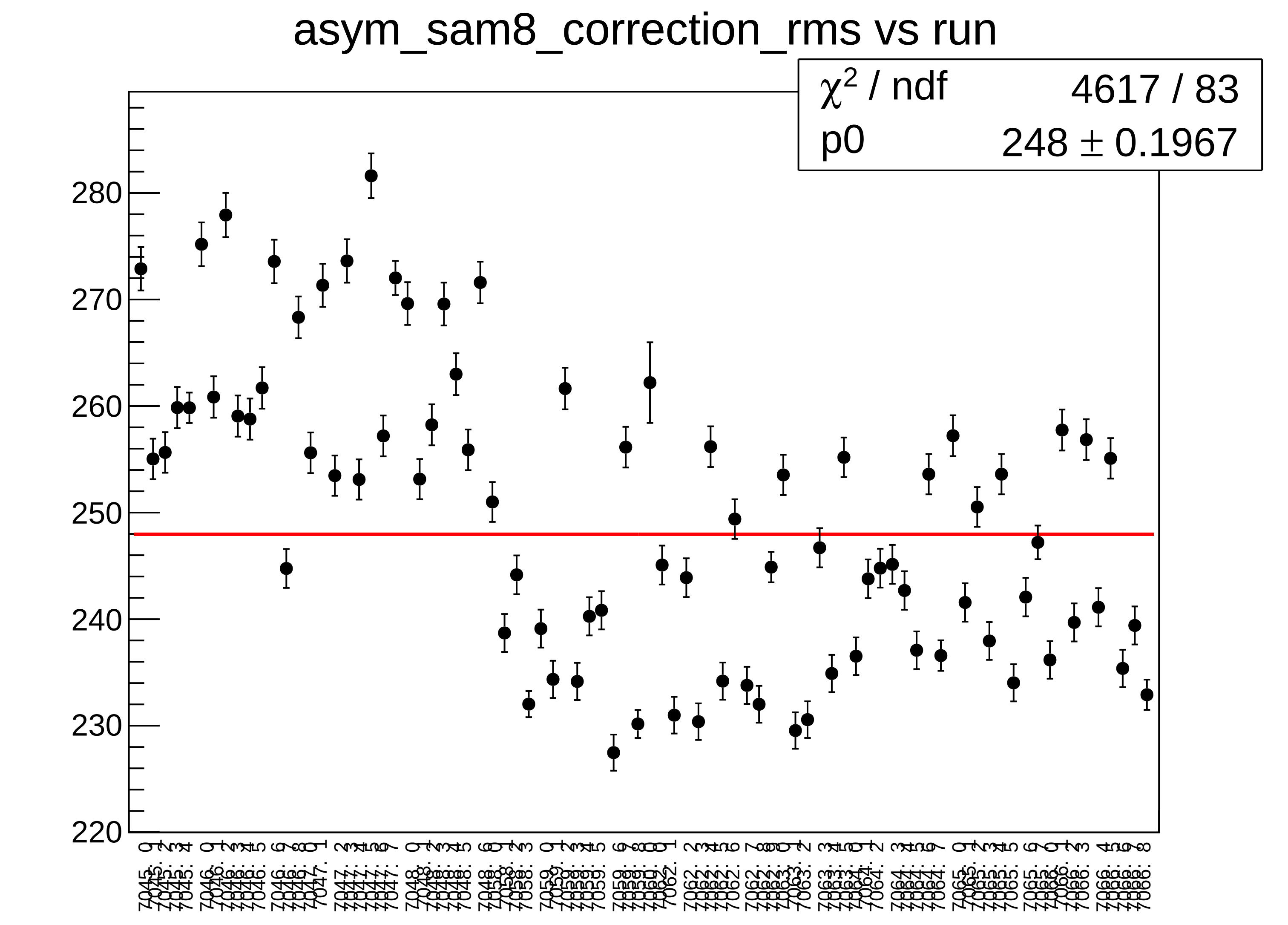
asym_sam7_correction_rms vs run
$\chi^2$ / ndf 6128 / 83
p0 334 ± 0.265
380
360
340
320
300

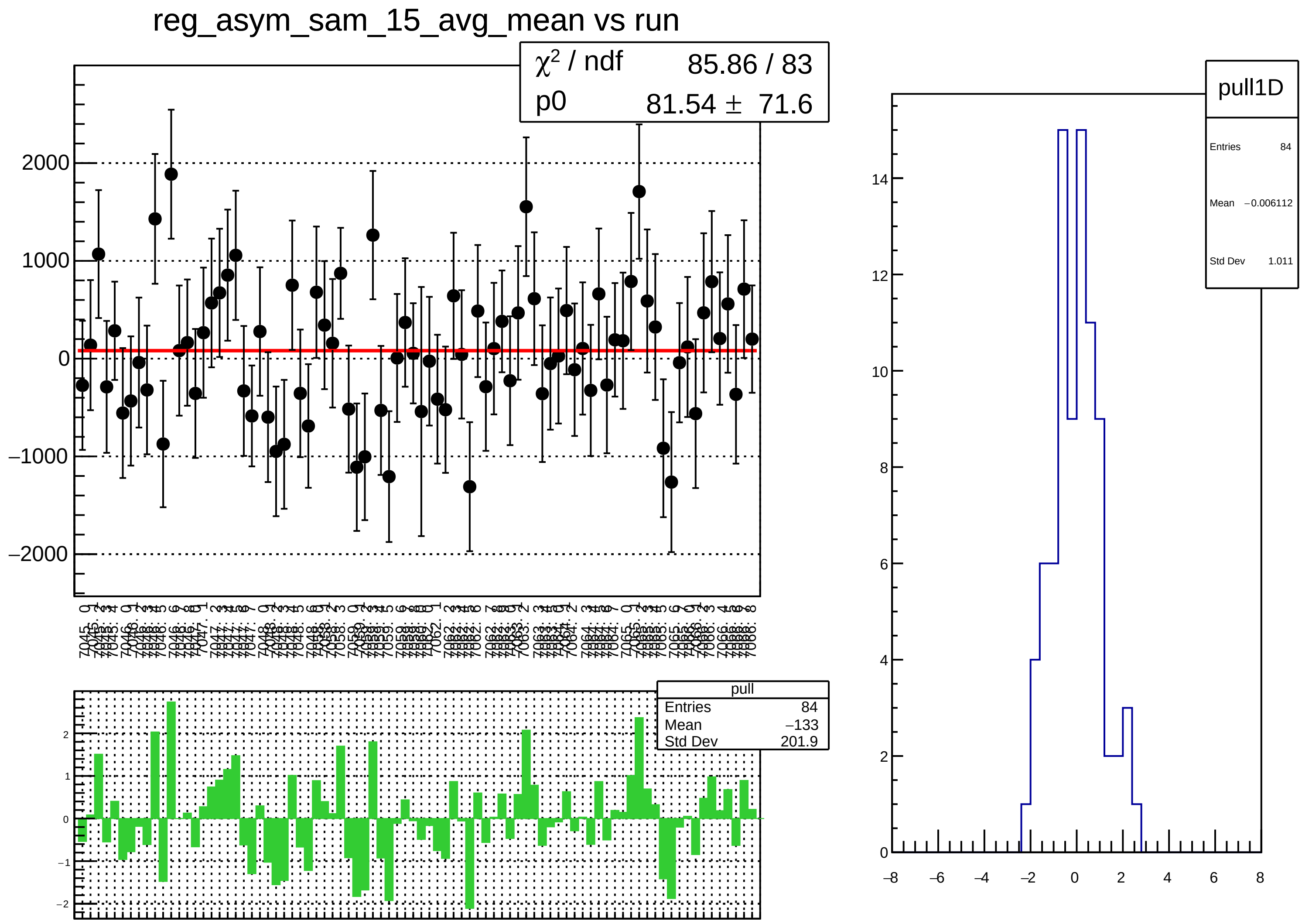

reg_asym_sam8_mean vs run
χ2 / ndf 62.93 / 83
p0 −267.7 ± 64.6
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull
Entries 84
Mean −23.89
Std Dev 30.51
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.0106
Std Dev 0.8655
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

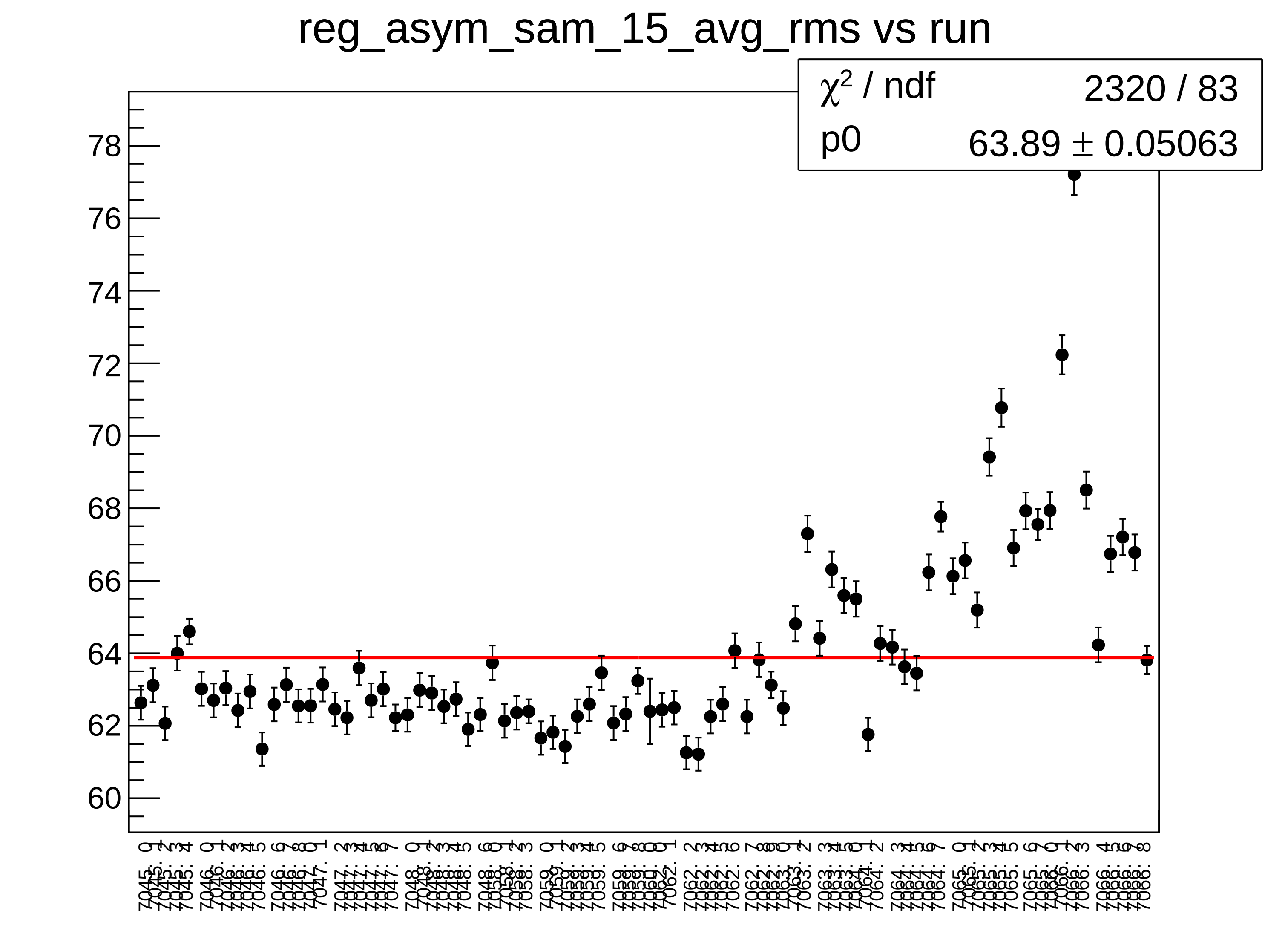

reg_asym_sam8_rms vs run
χ2 / ndf 6026 / 83
p0 57.57 ± 0.04568
70
65
60
55
50



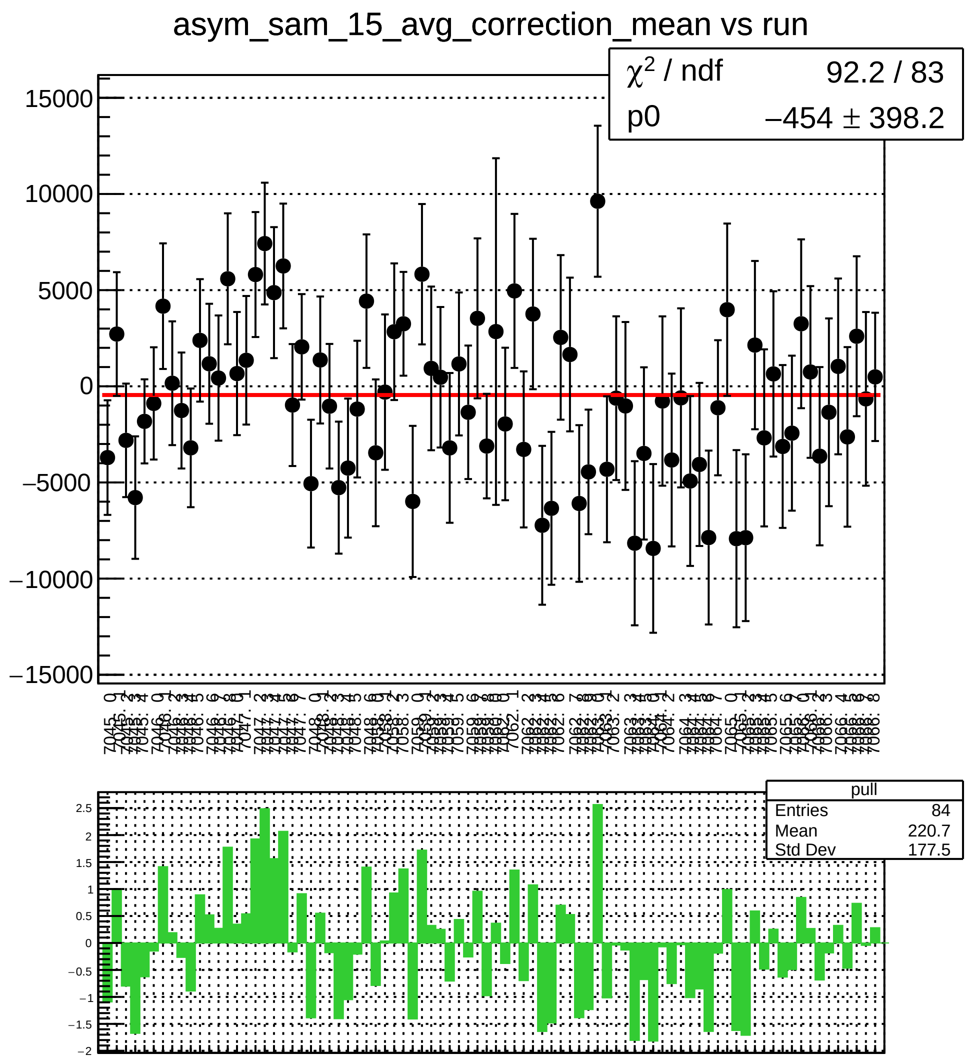
asym_sam8_correction_mean vs run
$\chi^2$ / ndf 69.5 / 83
p0 −455.6 ± 278.1
pull
Entries 84
Mean −206.5
Std Dev 244.8
pull1D
Entries 84
Mean 0.01763
Std Dev 0.9094

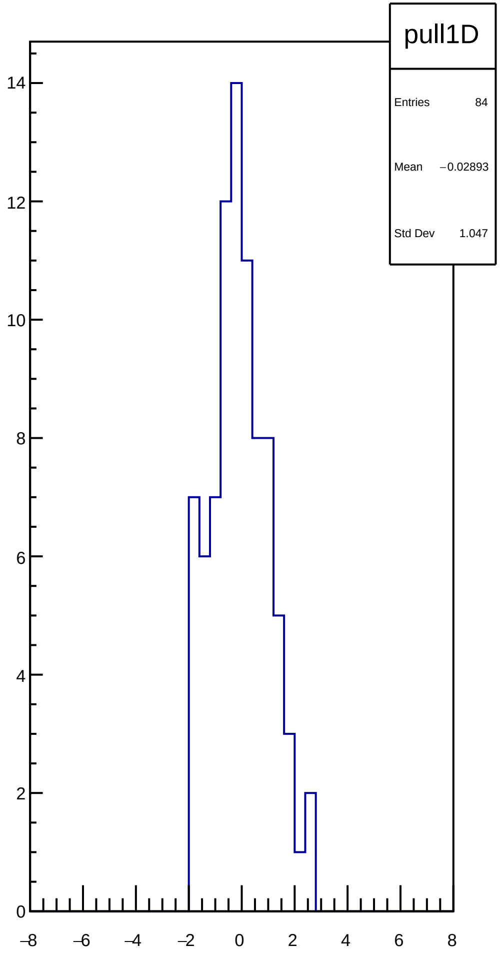

asym_sam8_correction_rms vs run
χ2 / ndf 4617 / 83
p0 248 ± 0.1967
220
230
240
250
260
270
280

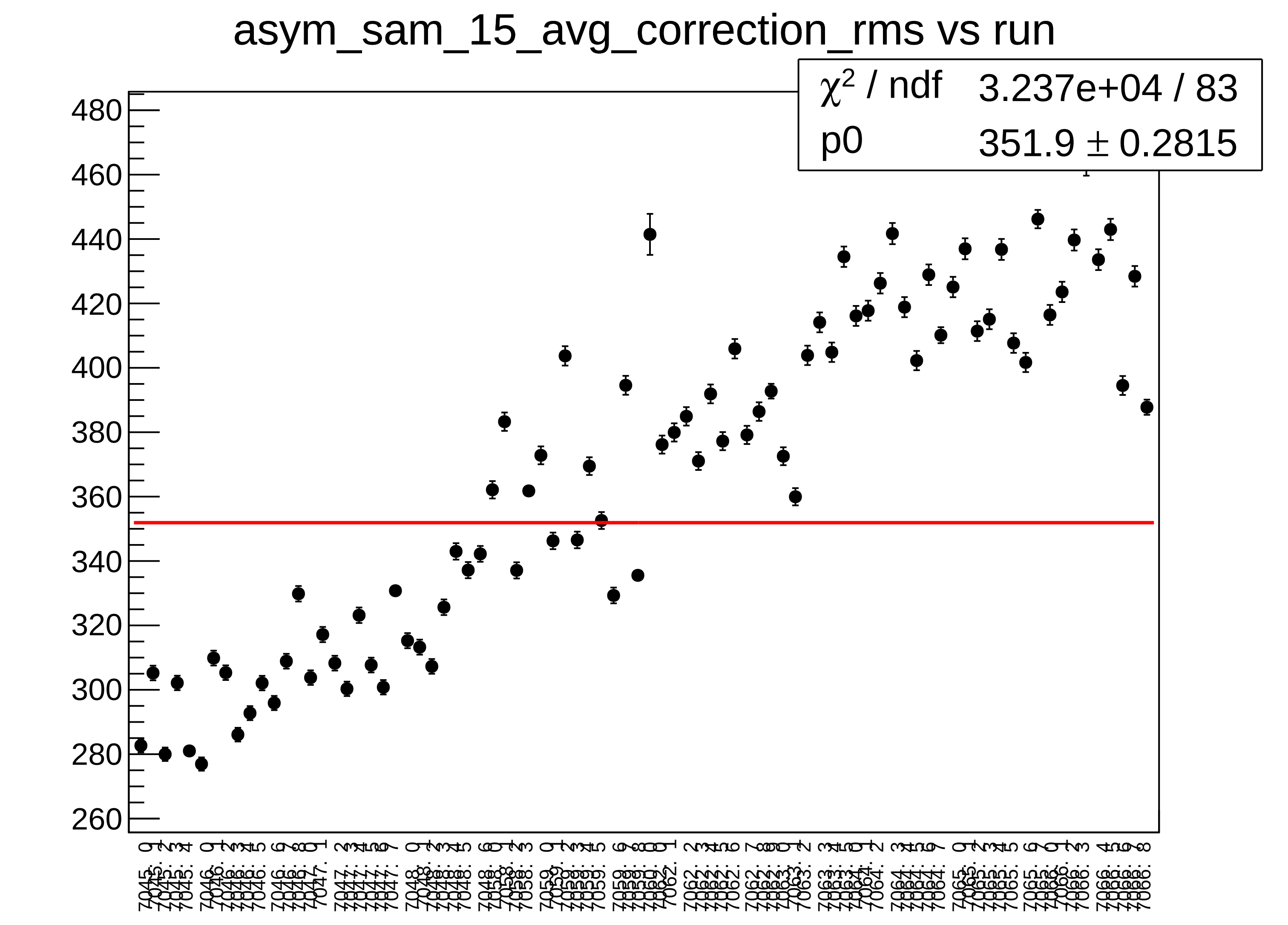

reg_asym_sam_15_avg_mean vs run
χ² / ndf 85.86 / 83
p0 81.54 ± 71.6
pull
Entries 84
Mean −133
Std Dev 201.9
pull1D
Entries 84
Mean −0.006112
Std Dev 1.011

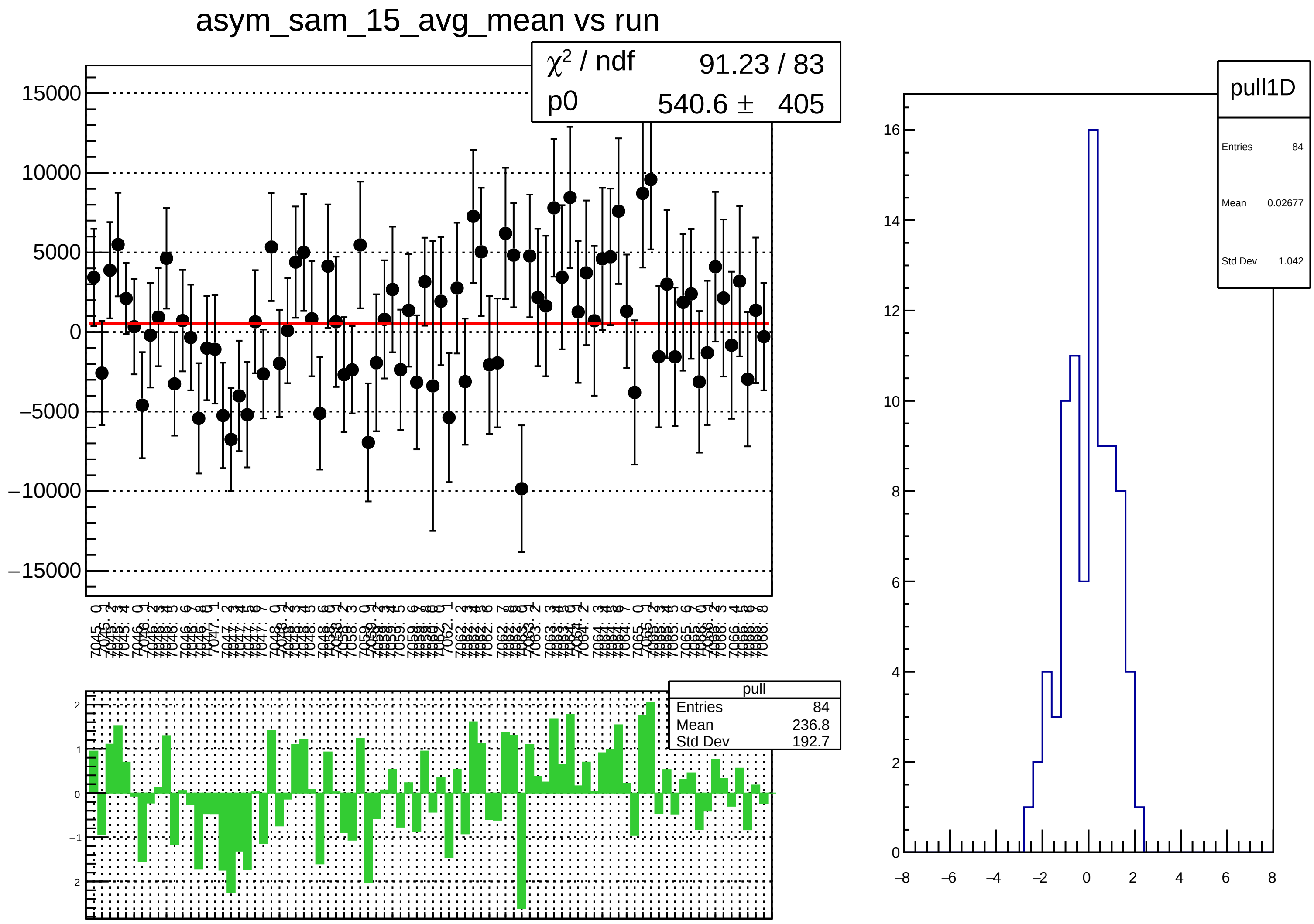


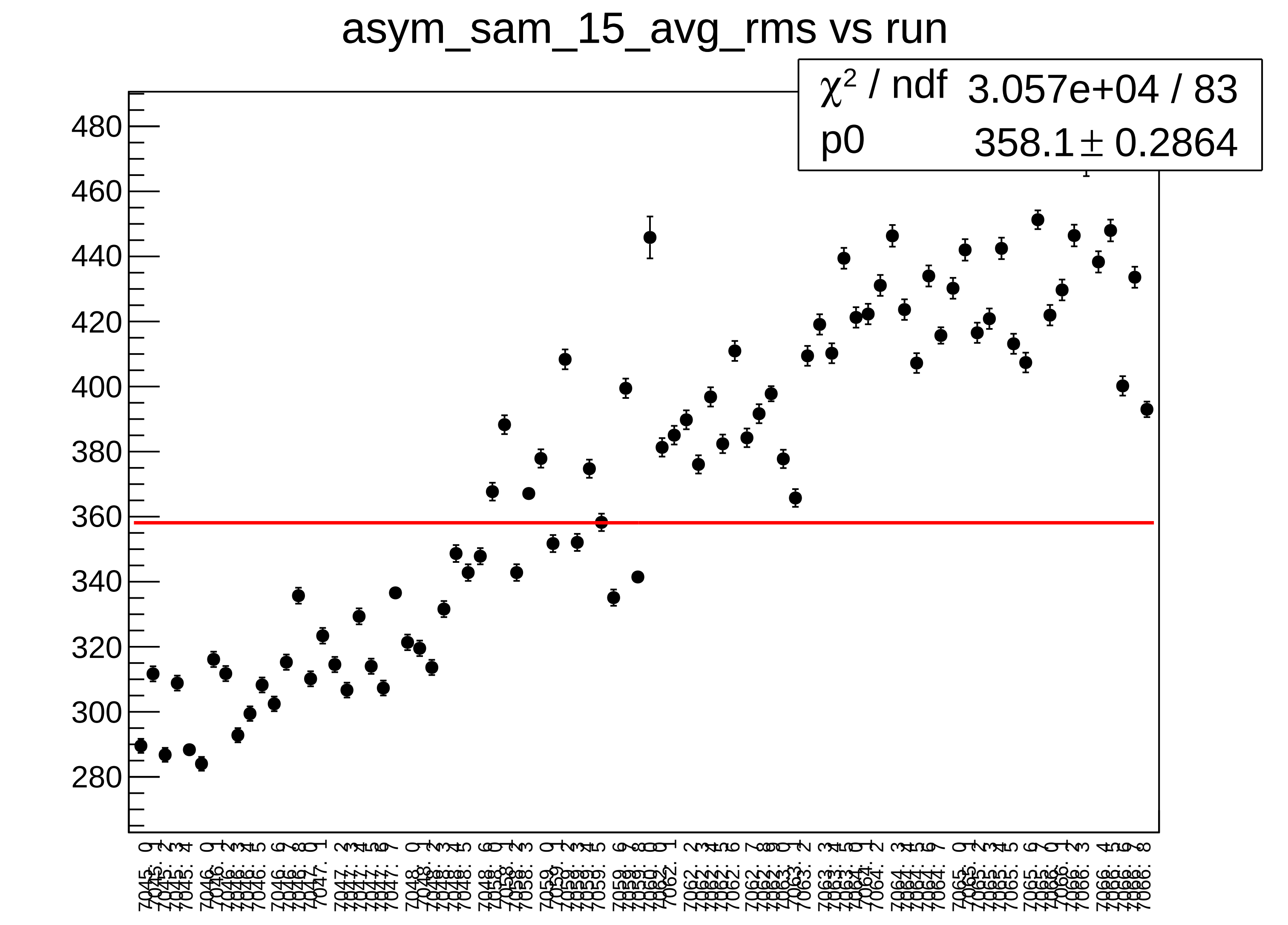
reg_asym_sam_15_avg_rms vs run
χ2 / ndf 2320 / 83
p0 63.89 ± 0.05063
78
76
74
72
70
68
66
64
62
60

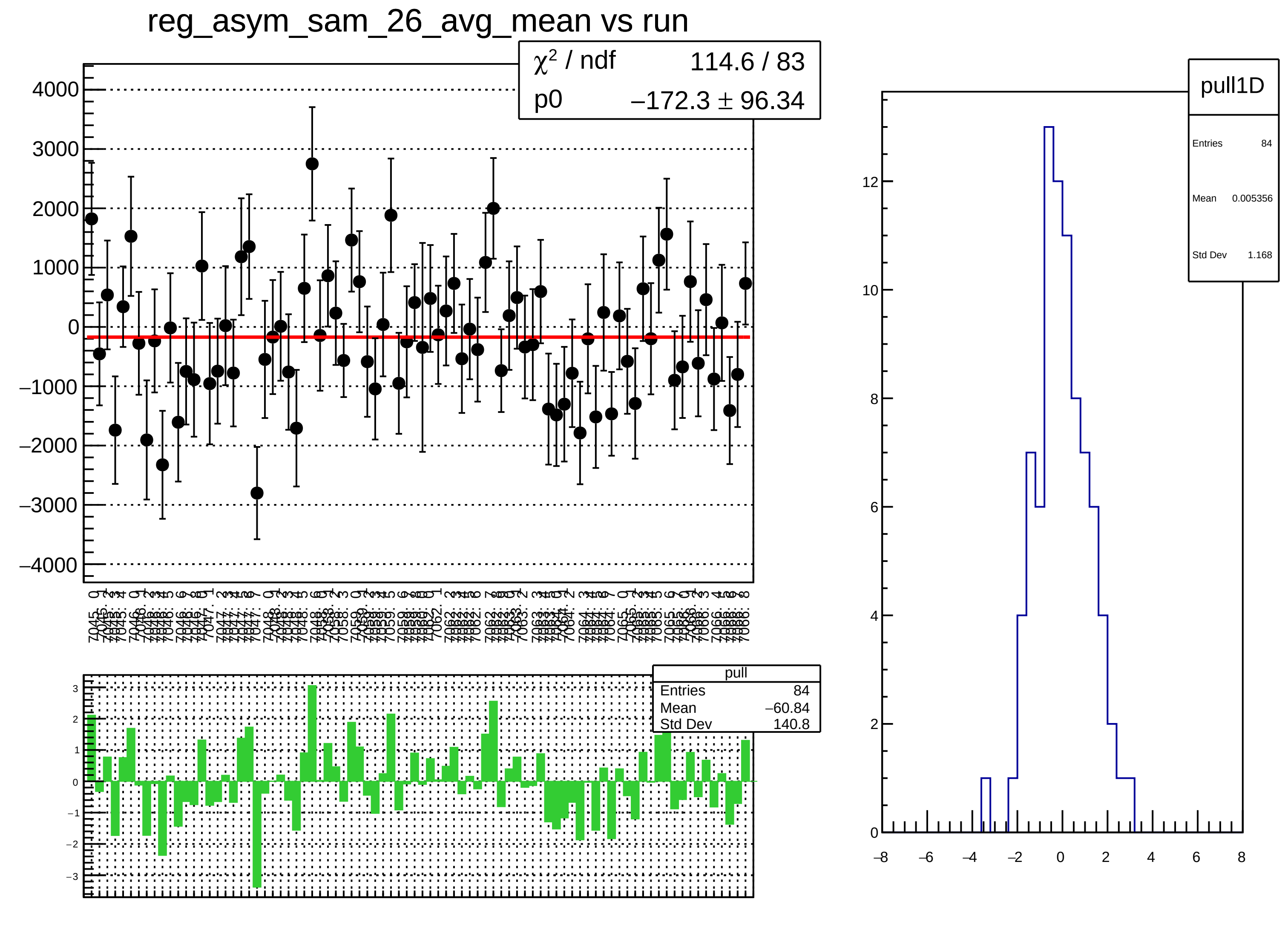

asym_sam_15_avg_correction_mean vs run
$\chi^2$ / ndf 92.2 / 83
p0 −454 ± 398.2
pull
Entries 84
Mean 220.7
Std Dev 177.5


pull1D
Entries 84
Mean −0.02893
Std Dev 1.047

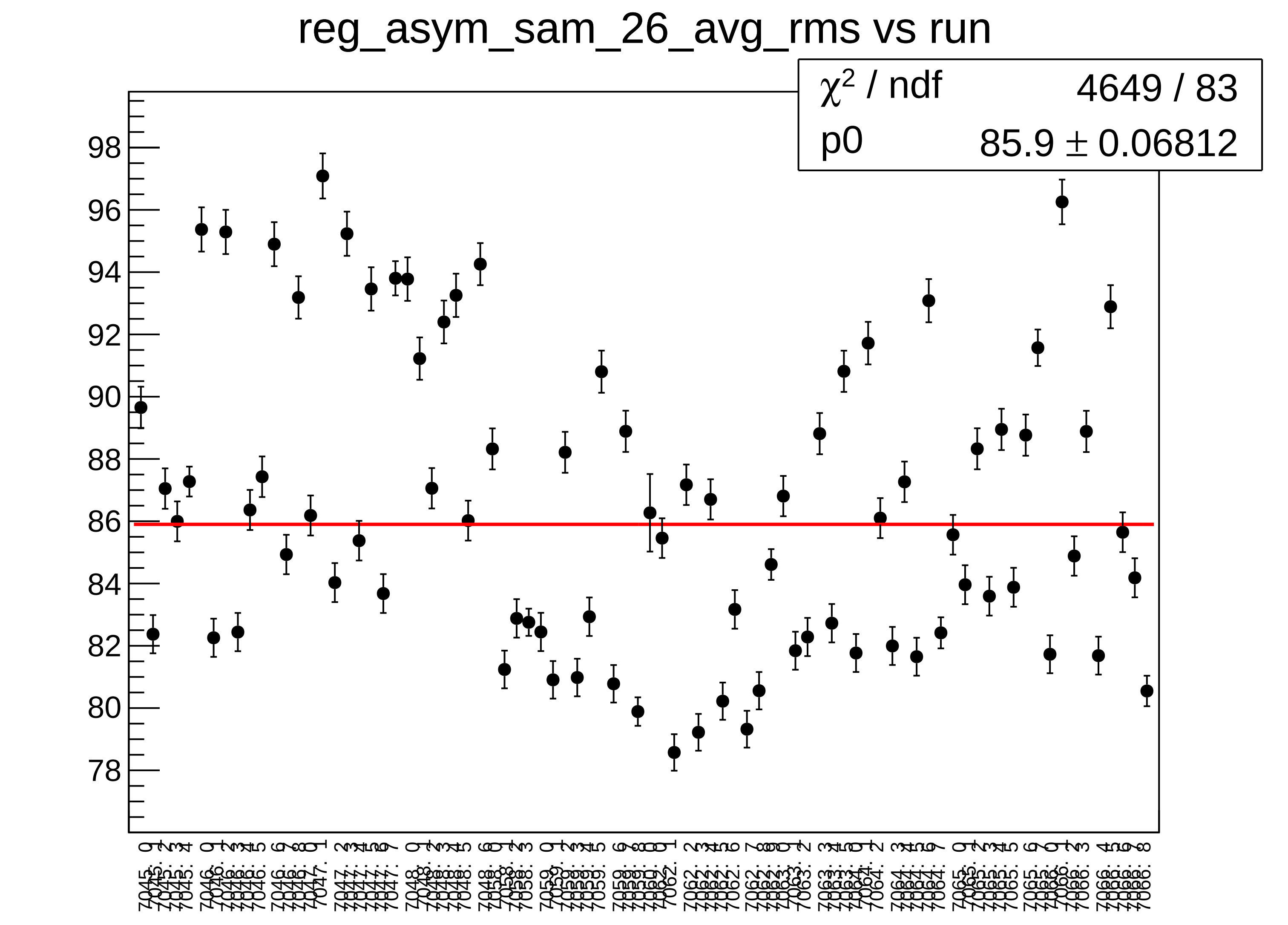

asym_sam_15_avg_correction_rms vs run
$\chi^2$ / ndf 3.237e+04 / 83
p0 351.9 ± 0.2815
480
460
440
420
400
380
360
340
320
300
280
260

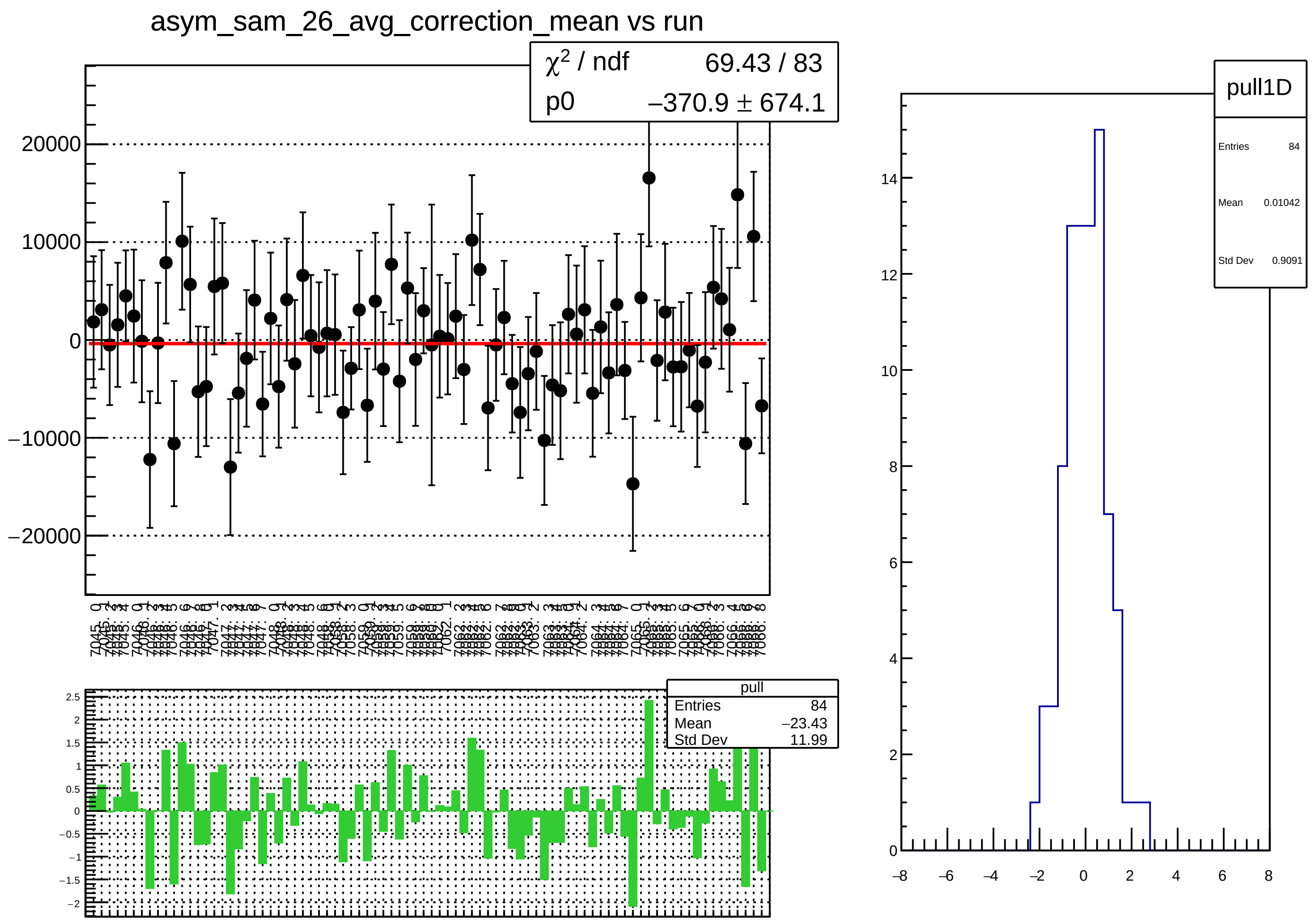

asym_sam_15_avg_mean vs run
χ2 / ndf 91.23 / 83
p0 540.6 ± 405
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 236.8
Std Dev 192.7
pull1D
Entries 84
Mean 0.02677
Std Dev 1.042


asym_sam_15_avg_rms vs run
χ2 / ndf 3.057e+04 / 83
p0 358.1 ± 0.2864
480
460
440
420
400
380
360
340
320
300
280

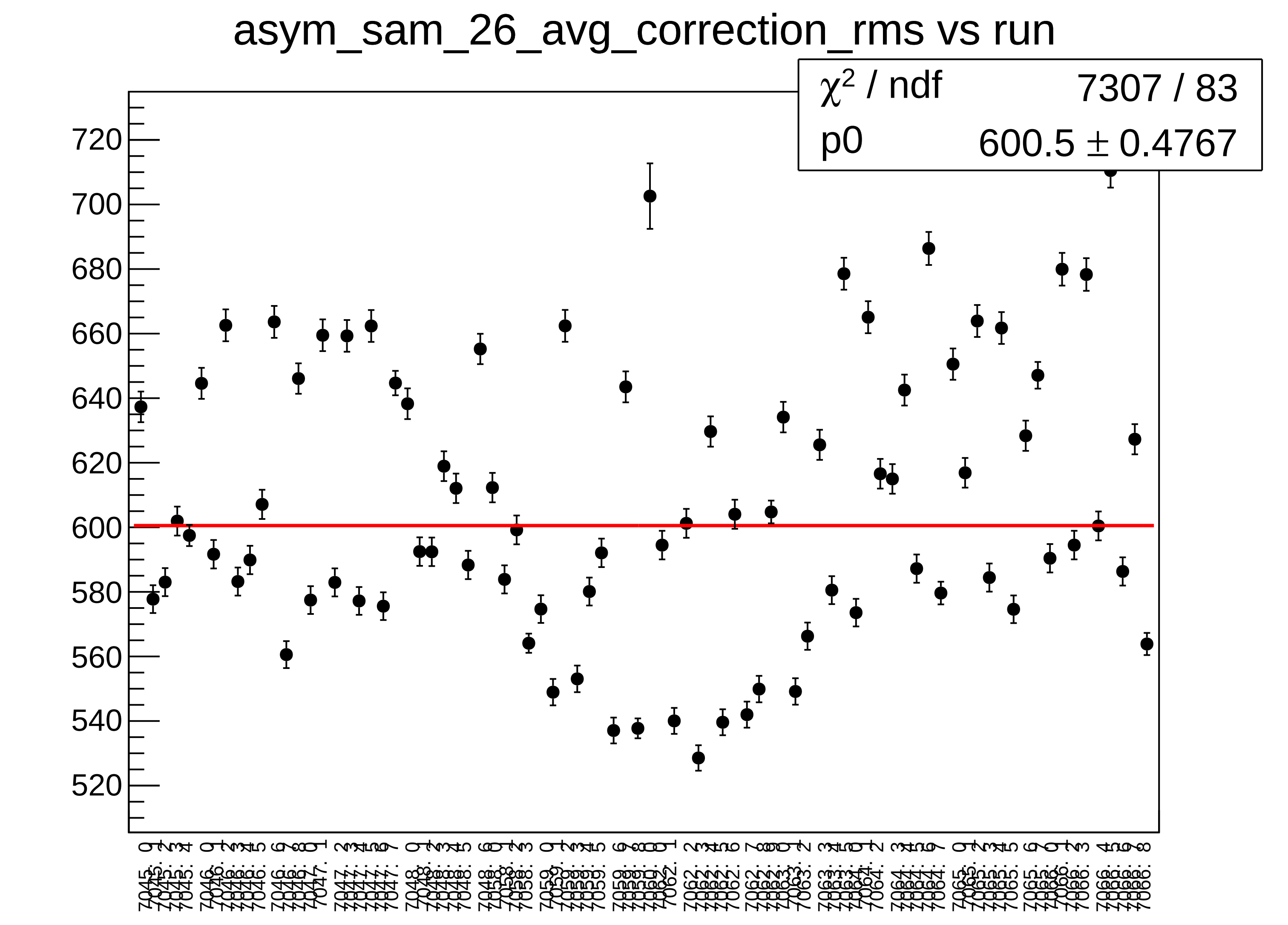


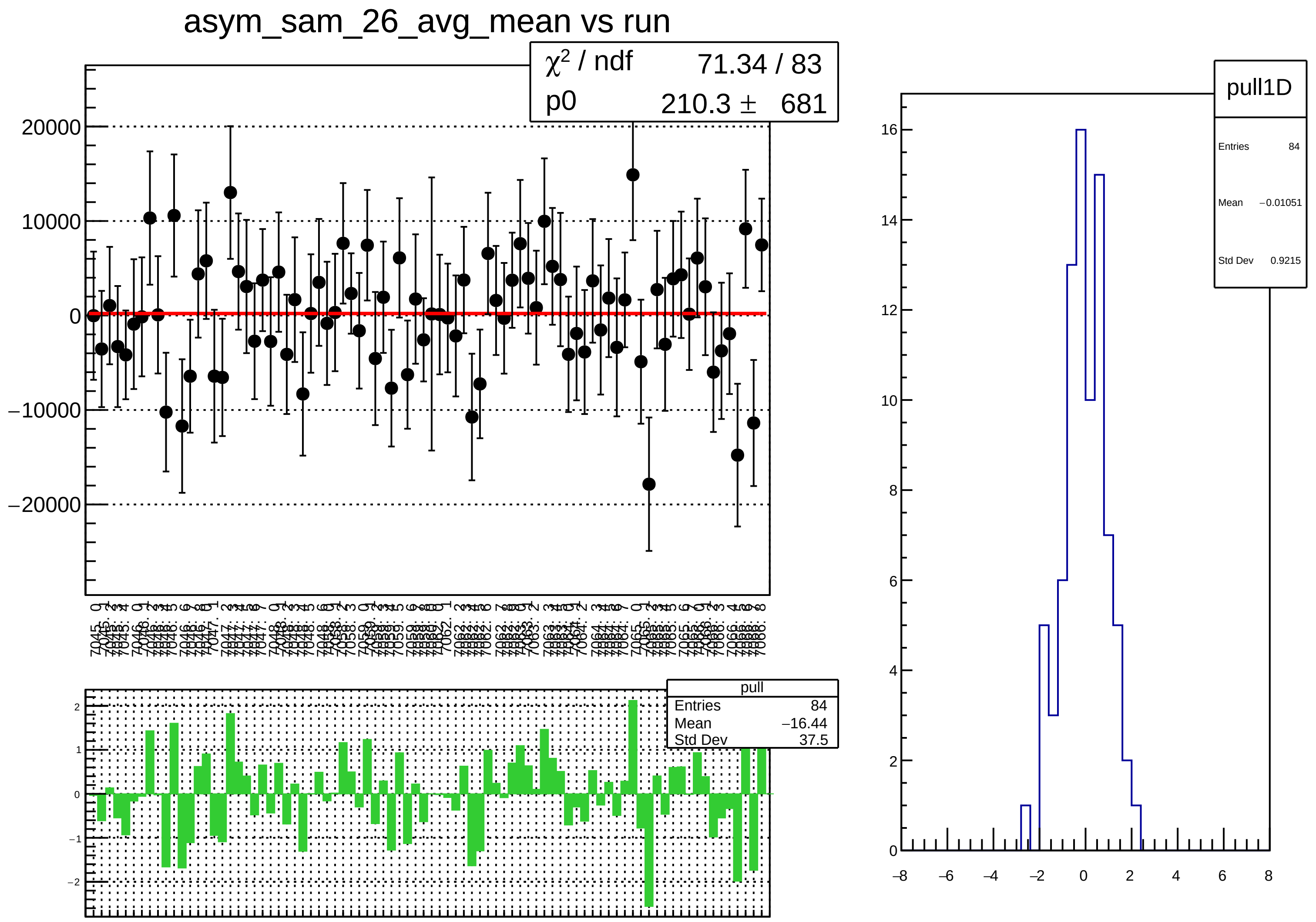
reg_asym_sam_26_avg_mean vs run
χ2 / ndf 114.6 / 83
p0 −172.3 ± 96.34
pull
Entries 84
Mean −60.84
Std Dev 140.8
pull1D
Entries 84
Mean 0.005356
Std Dev 1.168


reg_asym_sam_26_avg_rms vs run
$\chi^2$ / ndf 4649 / 83
p0 85.9 ± 0.06812
98
96
94
92
90
88
86
84
82
80
78

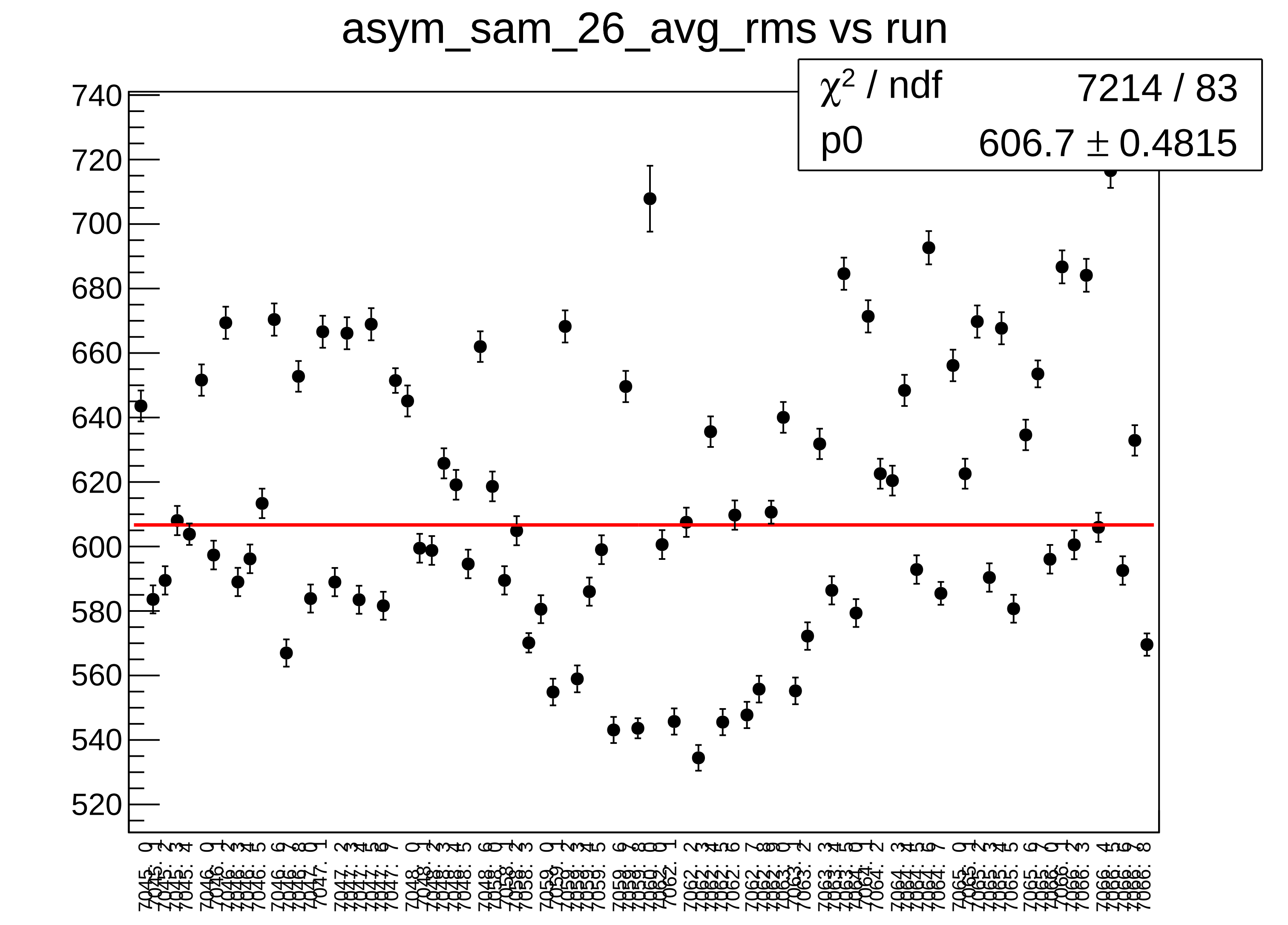


asym_sam_26_avg_correction_mean vs run
χ2 / ndf 69.43 / 83
p0 −370.9 ± 674.1
pull
Entries 84
Mean −23.43
Std Dev 11.99
pull1D
Entries 84
Mean 0.01042
Std Dev 0.9091

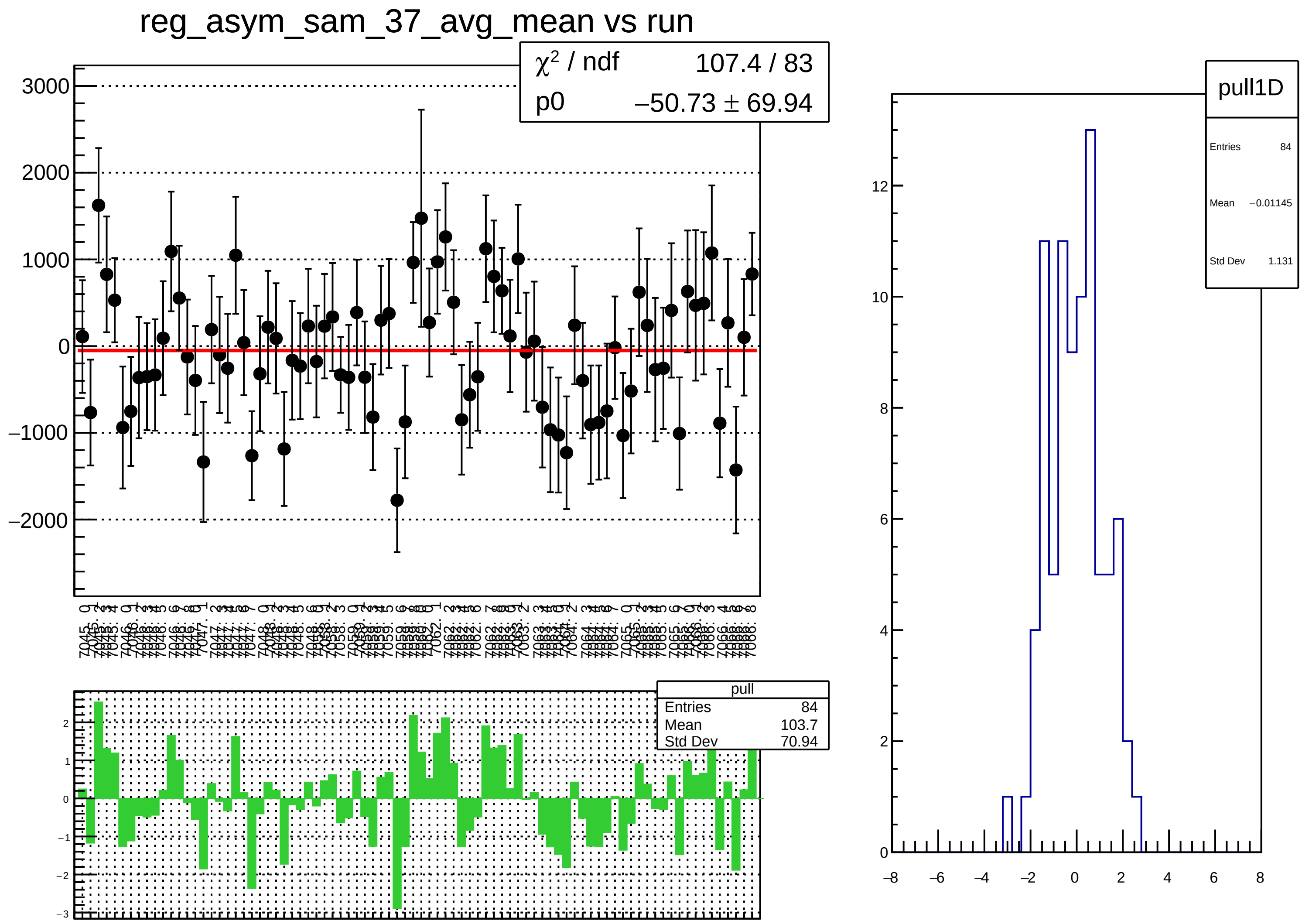

asym_sam_26_avg_correction_rms vs run
$\chi^2$ / ndf 7307 / 83
p0 600.5 ± 0.4767
720
700
680
660
640
620
600
580
560
540
520



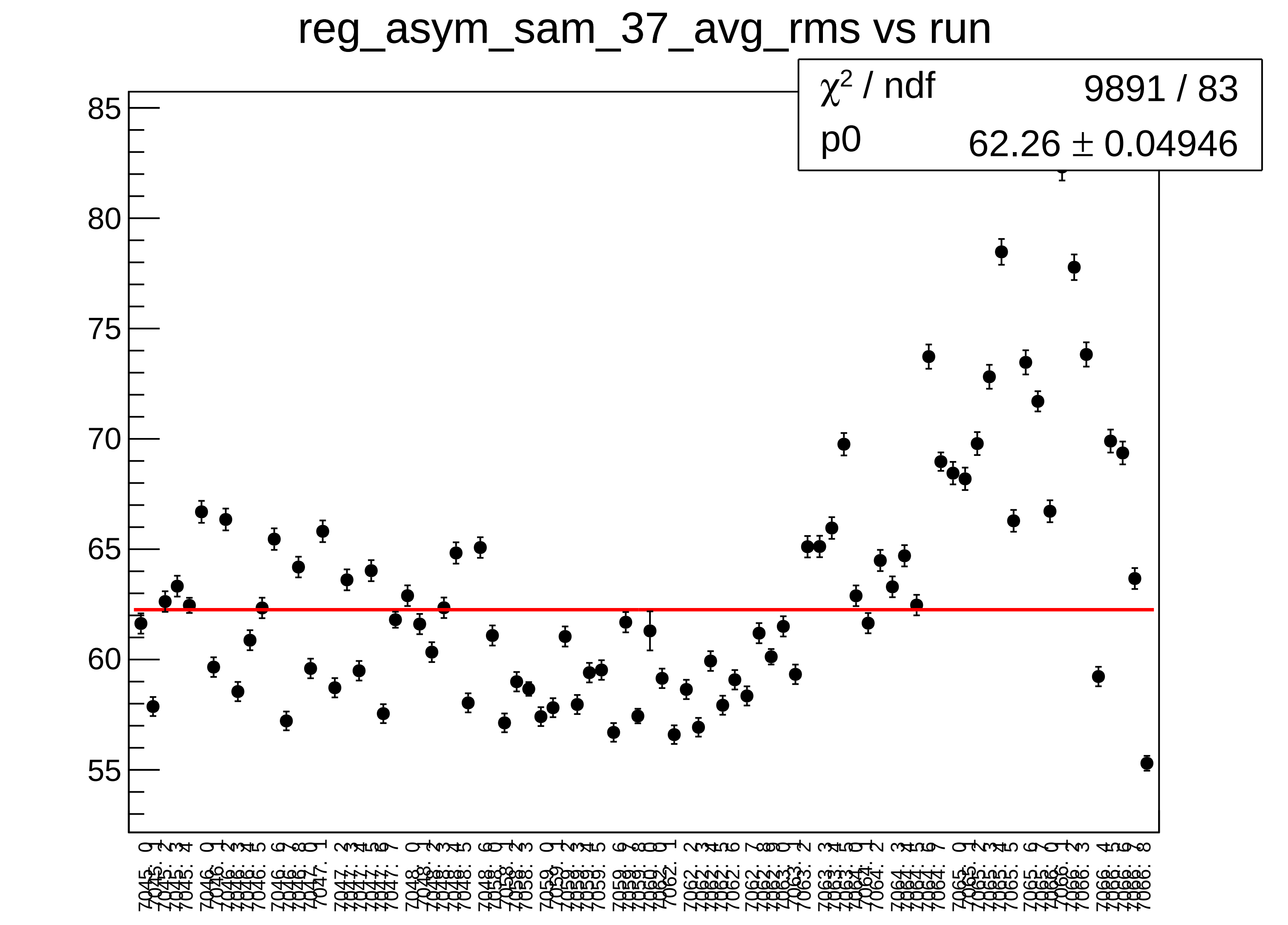
asym_sam_26_avg_mean vs run
$\chi^2$ / ndf 71.34 / 83
p0 210.3 ± 681
pull
Entries 84
Mean −16.44
Std Dev 37.5
pull1D
Entries 84
Mean −0.01051
Std Dev 0.9215



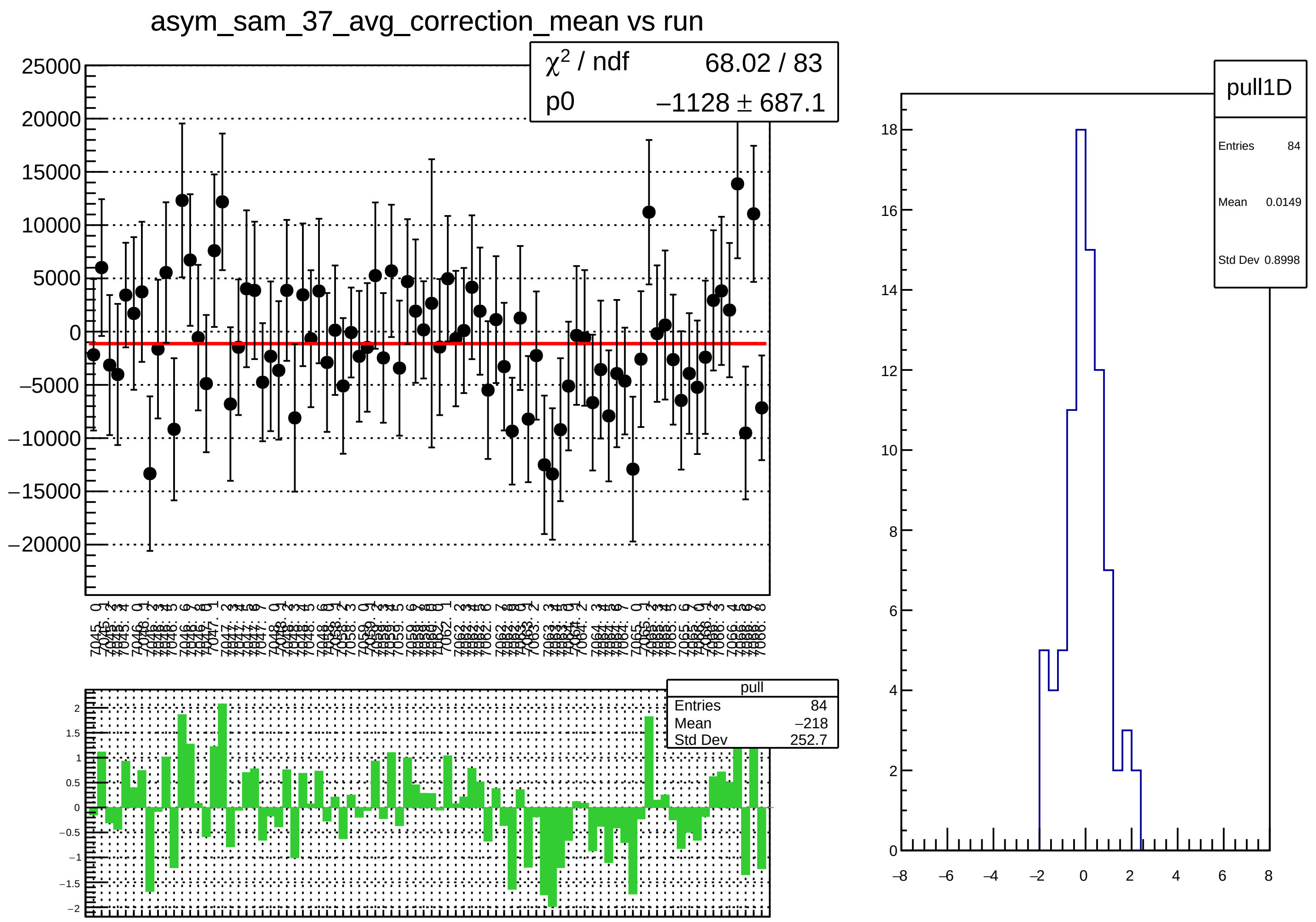
asym_sam_26_avg_rms vs run
$\chi^2$ / ndf 7214 / 83
p0 606.7 ± 0.4815
740
720
700
680
660
640
620
600
580
560
540
520



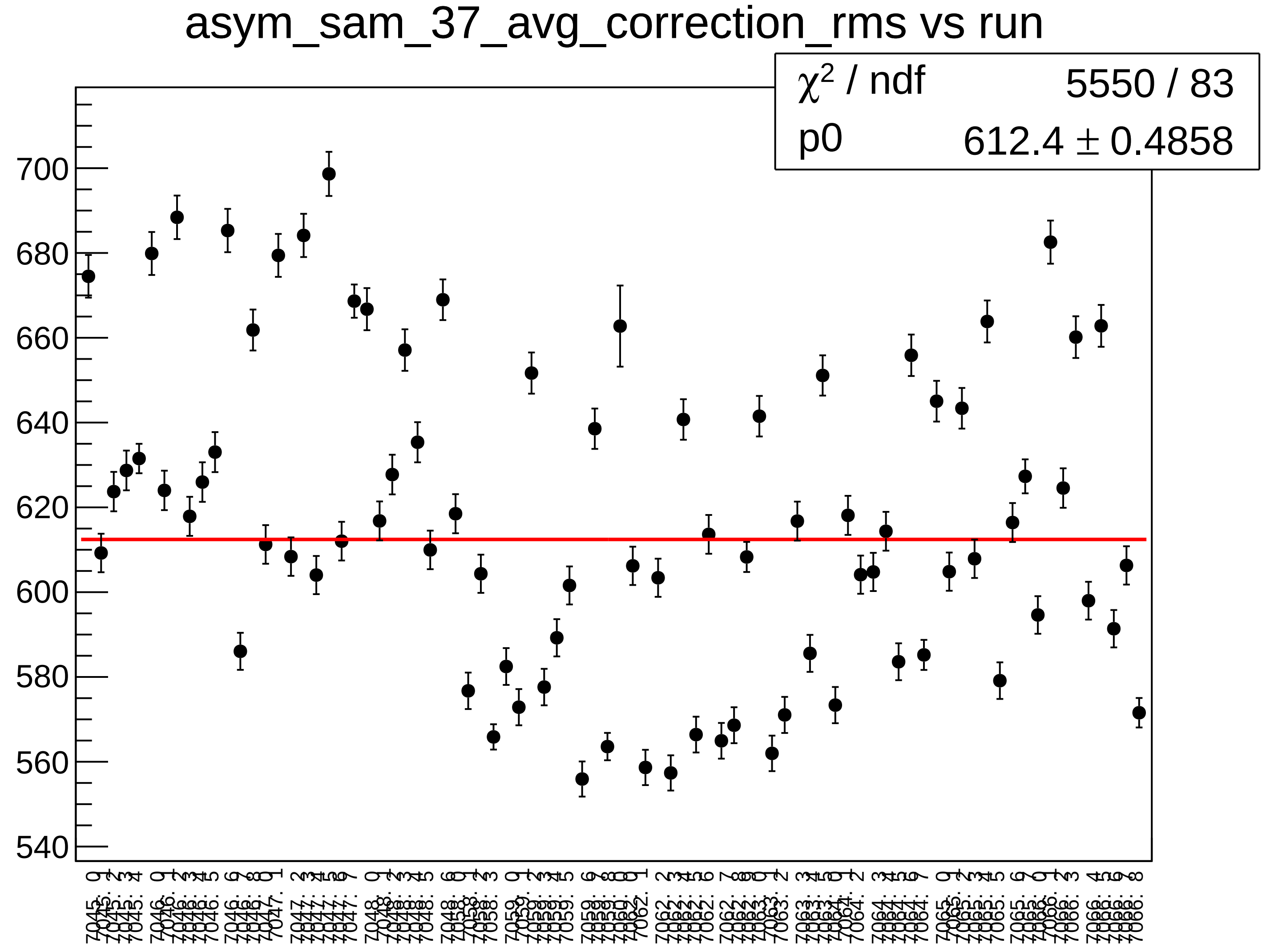
reg_asym_sam_37_avg_mean vs run
$\chi^2$ / ndf 107.4 / 83
p0 −50.73 ± 69.94
pull
Entries 84
Mean 103.7
Std Dev 70.94
pull1D
Entries 84
Mean −0.01145
Std Dev 1.131

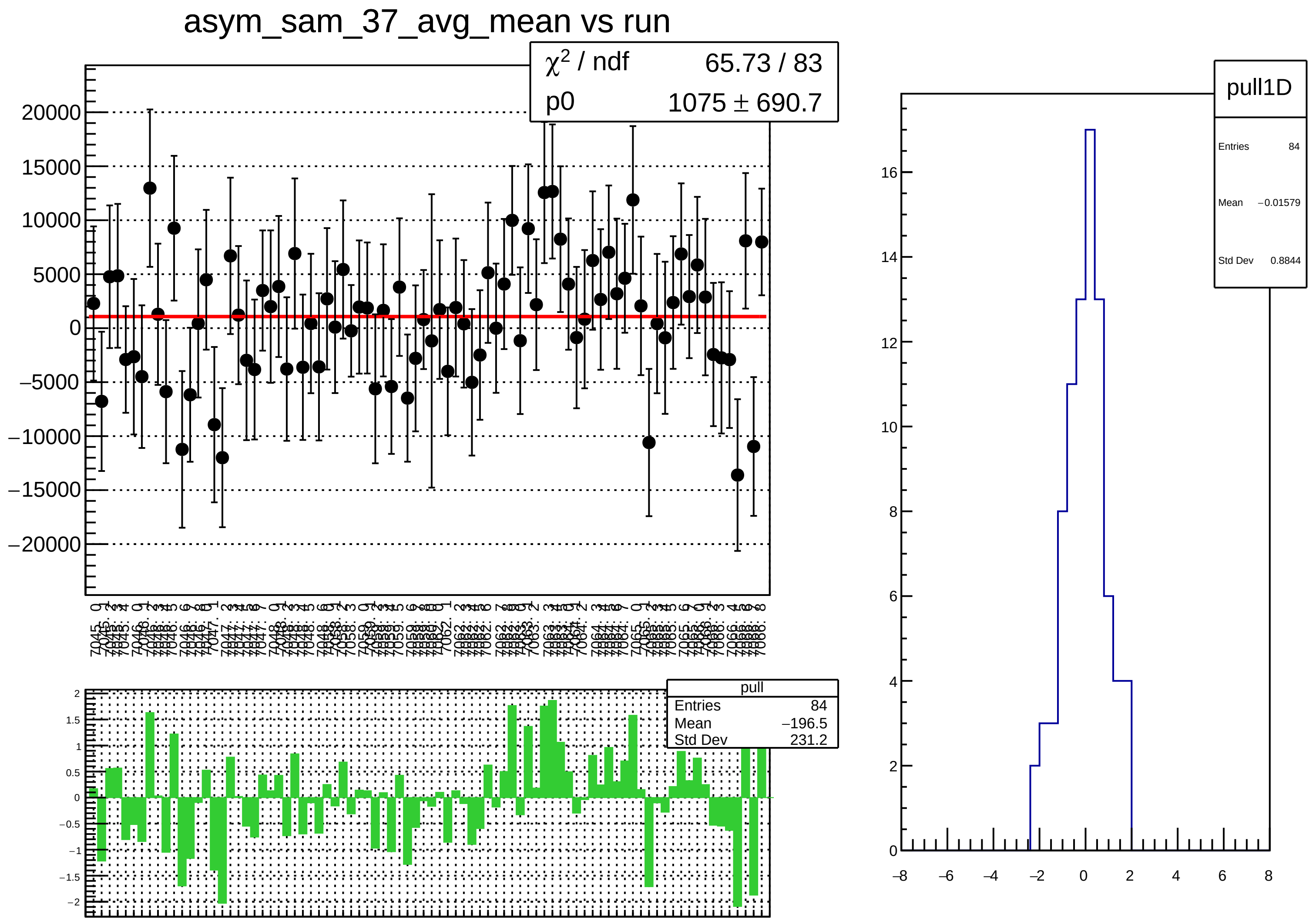


reg_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 9891 / 83
p0 62.26 ± 0.04946
85
80
75
70
65
60
55

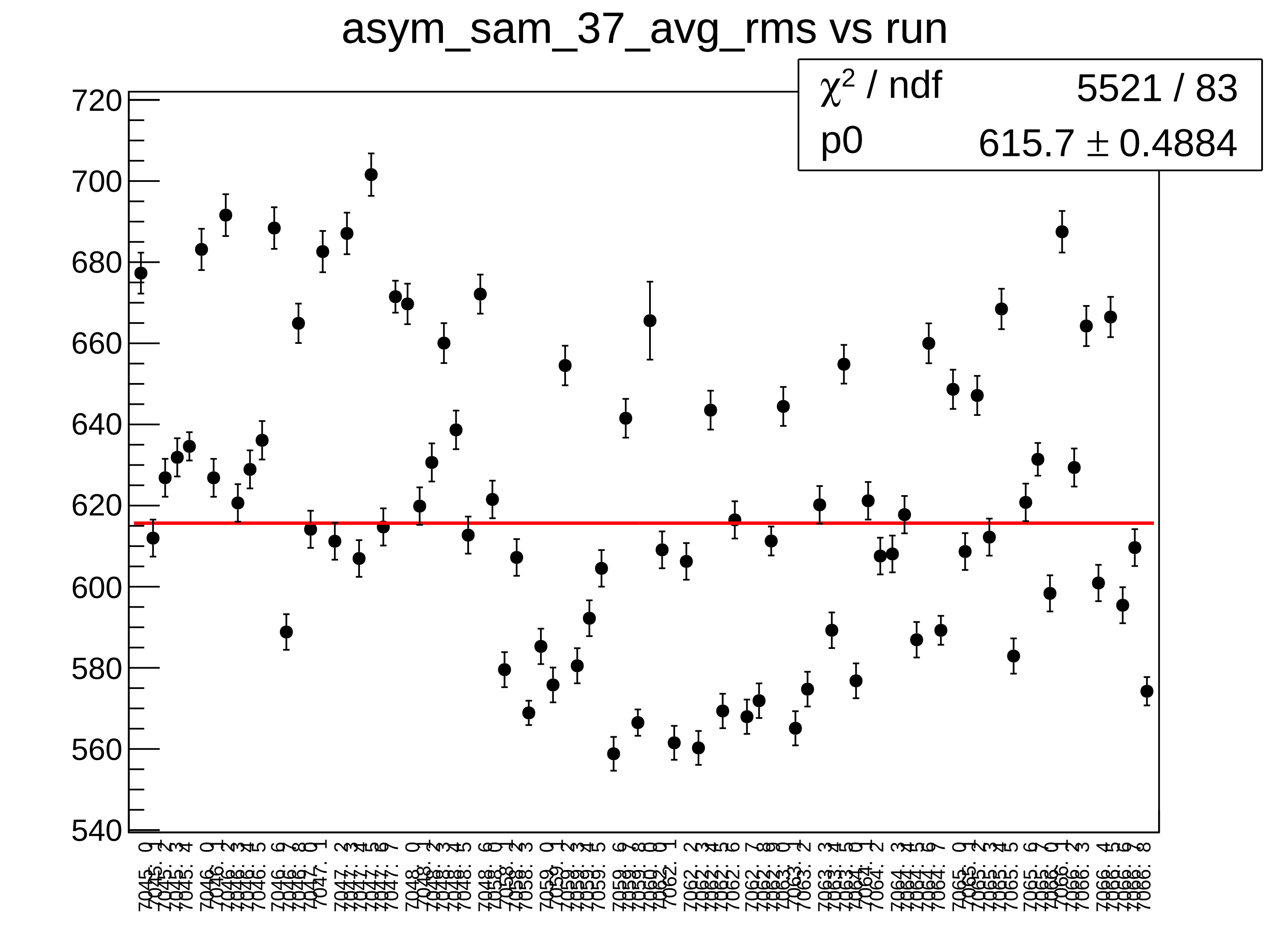


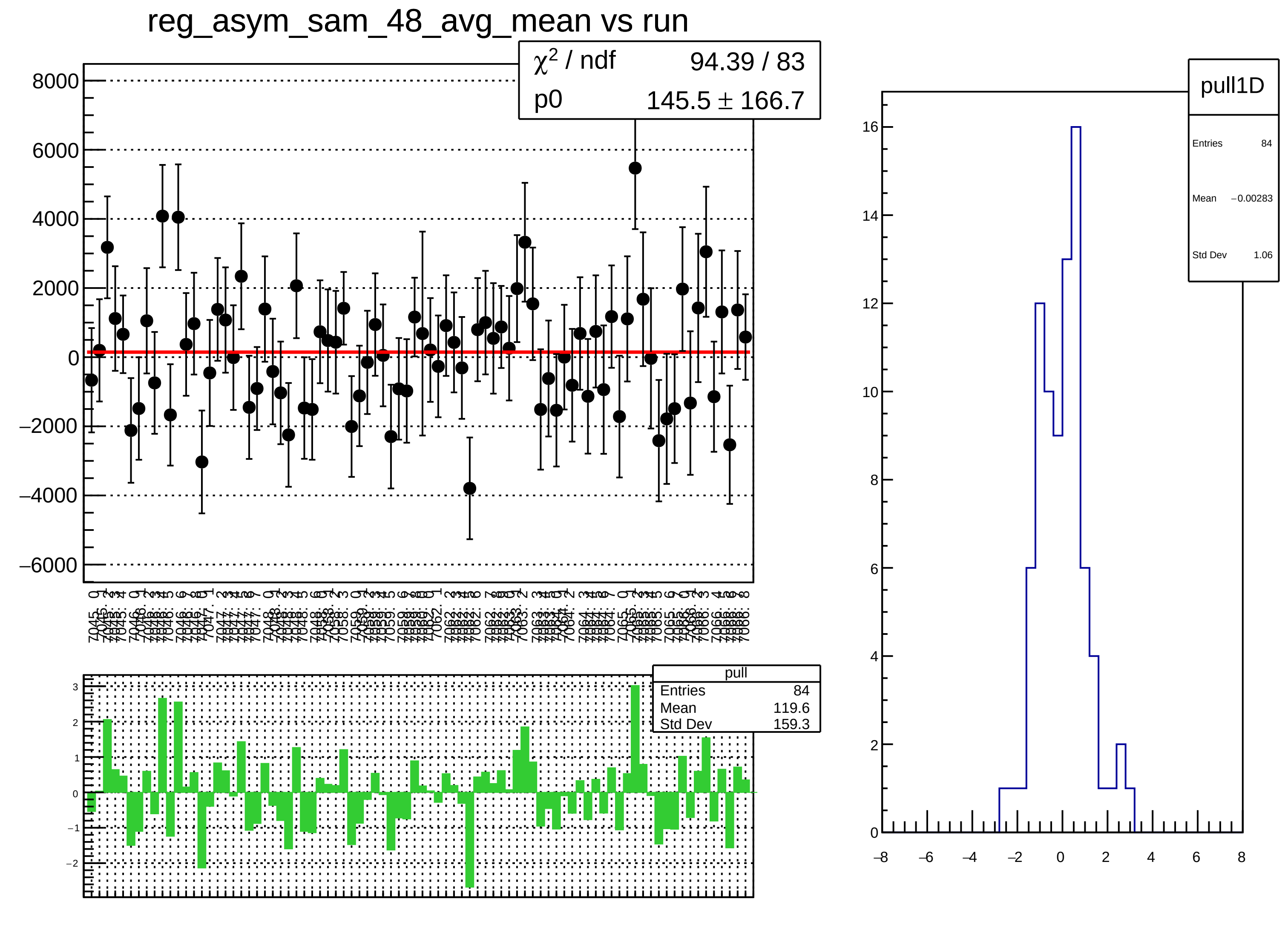
asym_sam_37_avg_correction_mean vs run
$\chi^2$ / ndf 68.02 / 83
p0 −1128 ± 687.1
pull
Entries 84
Mean −218
Std Dev 252.7
pull1D
Entries 84
Mean 0.0149
Std Dev 0.8998


asym_sam_37_avg_correction_rms vs run
$\chi^2$ / ndf 5550 / 83
p0 612.4 ± 0.4858
700
680
660
640
620
600
580
560
540

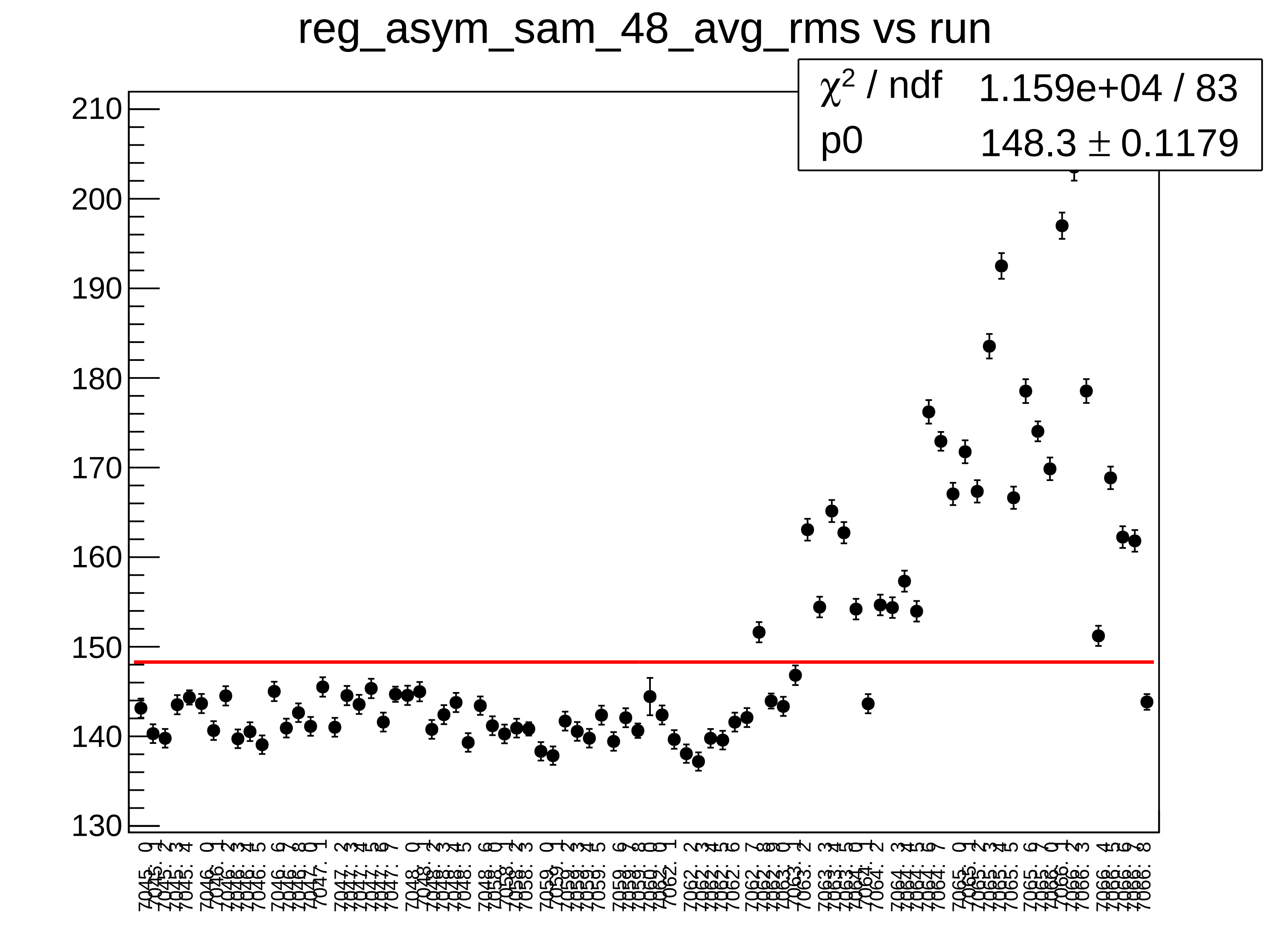


asym_sam_37_avg_mean vs run
$\chi^2$ / ndf 65.73 / 83
p0 1075 ± 690.7
pull
Entries 84
Mean −196.5
Std Dev 231.2
pull1D
Entries 84
Mean −0.01579
Std Dev 0.8844

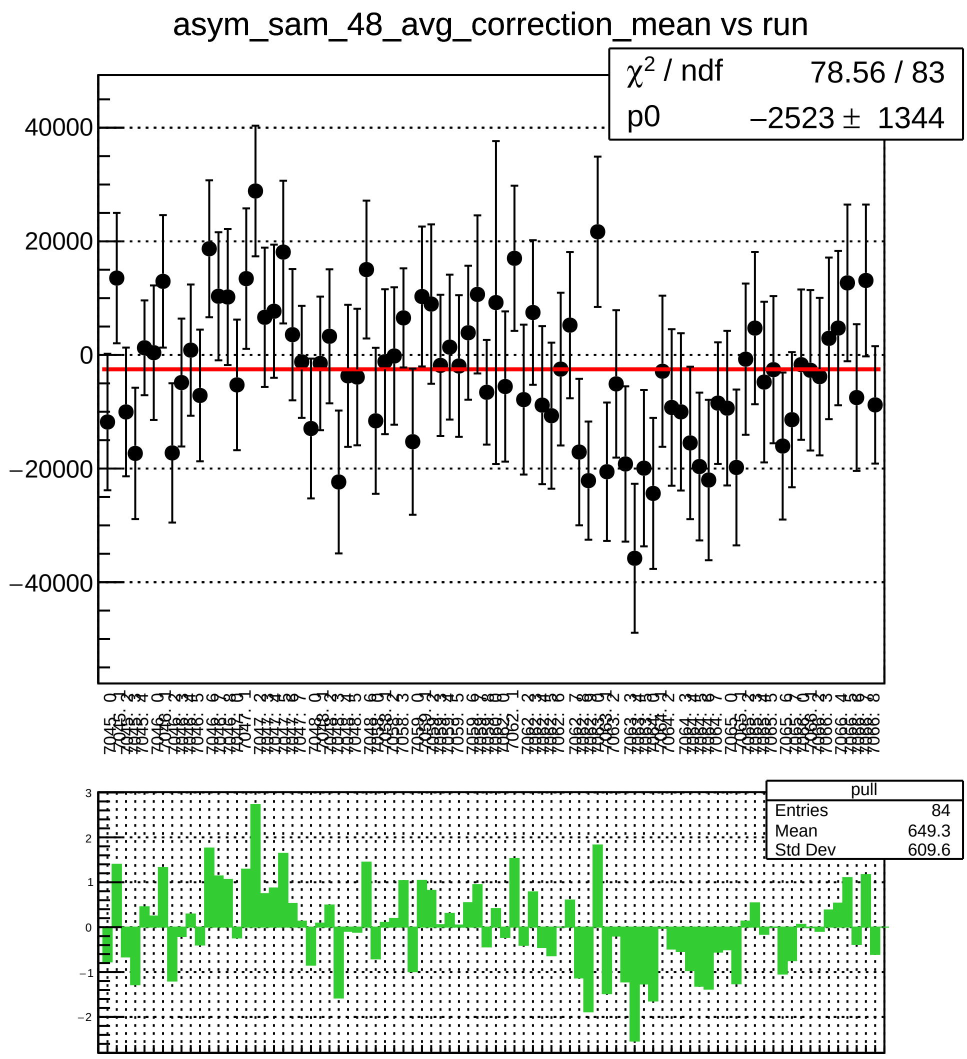

asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 5521 / 83
p0 615.7 ± 0.4884
720
700
680
660
640
620
600
580
560
540



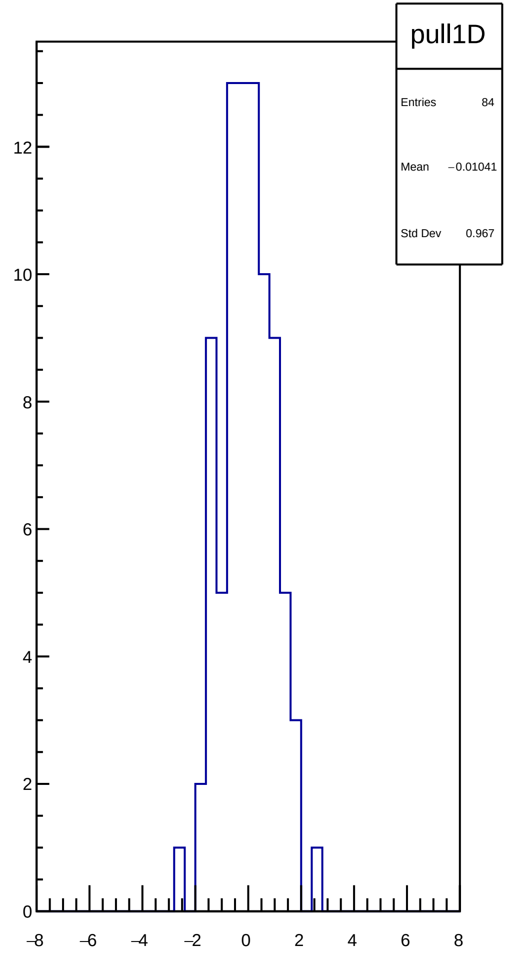
reg_asym_sam_48_avg_mean vs run
$\chi^2$ / ndf 94.39 / 83
p0 145.5 ± 166.7
pull
Entries 84
Mean 119.6
Std Dev 159.3
pull1D
Entries 84
Mean −0.00283
Std Dev 1.06



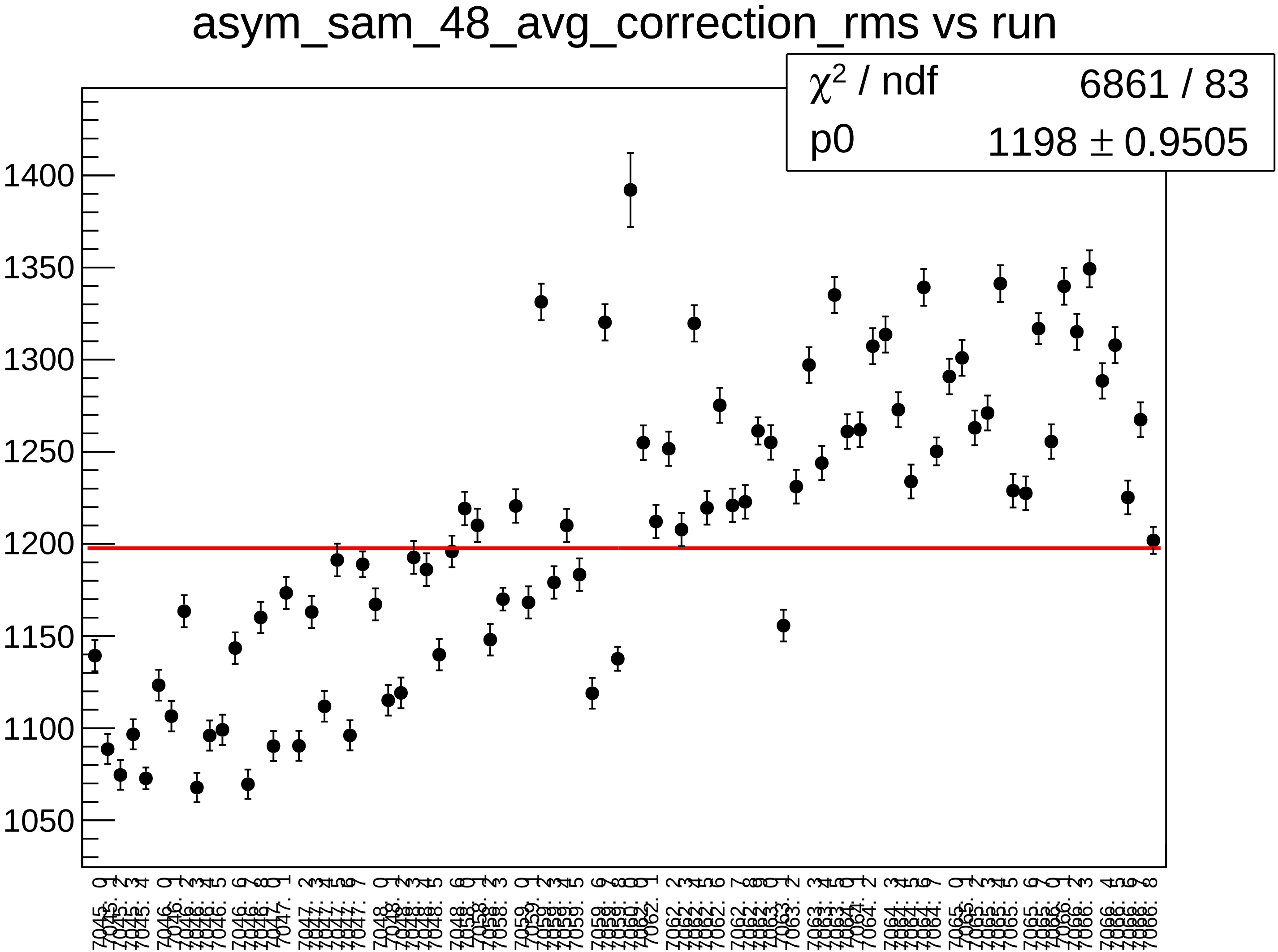
reg_asym_sam_48_avg_rms vs run
$\chi^2$ / ndf 1.159e+04 / 83
p0 148.3 ± 0.1179
210
200
190
180
170
160
150
140
130

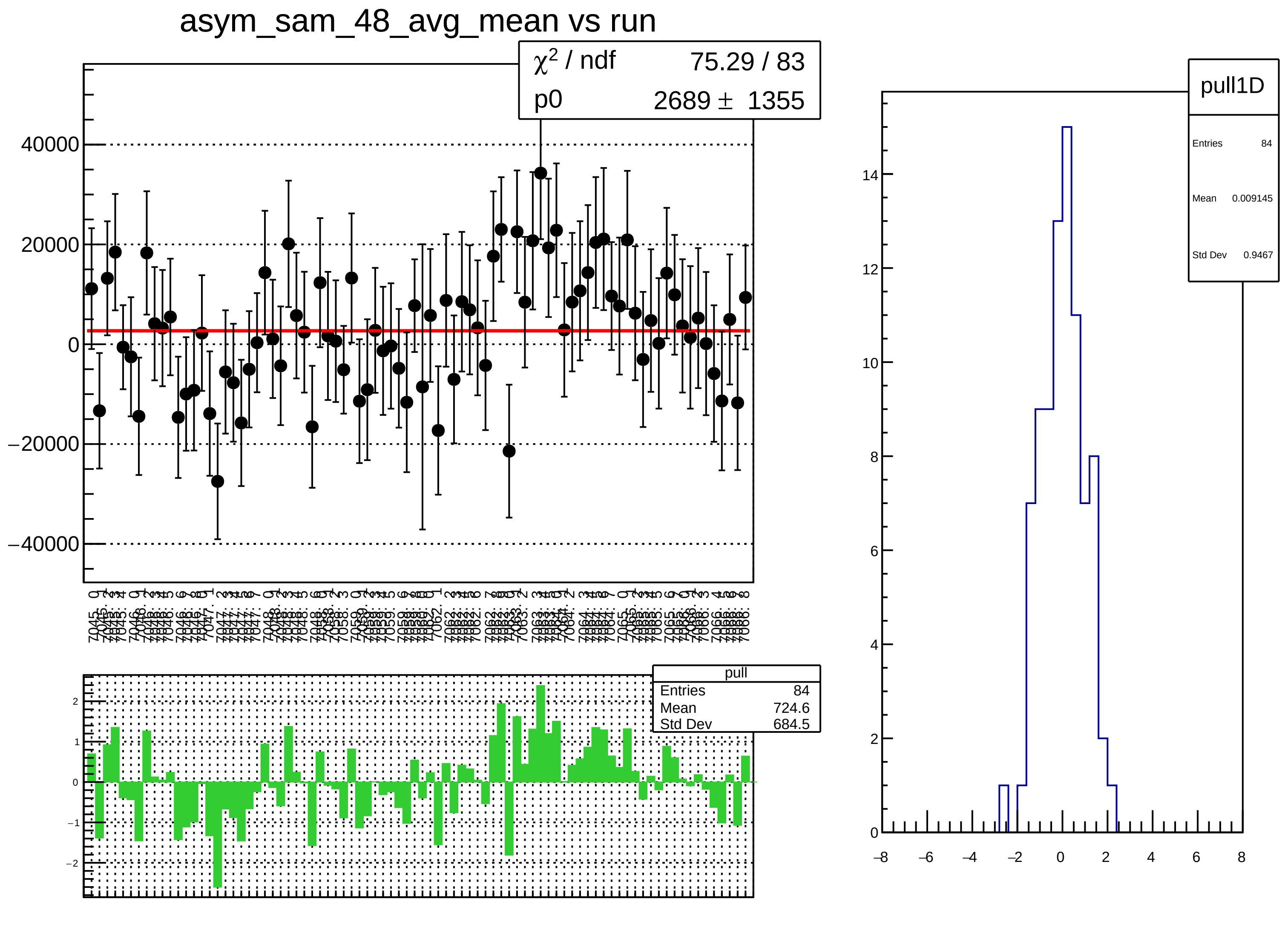


asym_sam_48_avg_correction_mean vs run
$\chi^2$ / ndf 78.56 / 83
p0 −2523 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 649.3
Std Dev 609.6
3
2
1
0
−1
−2

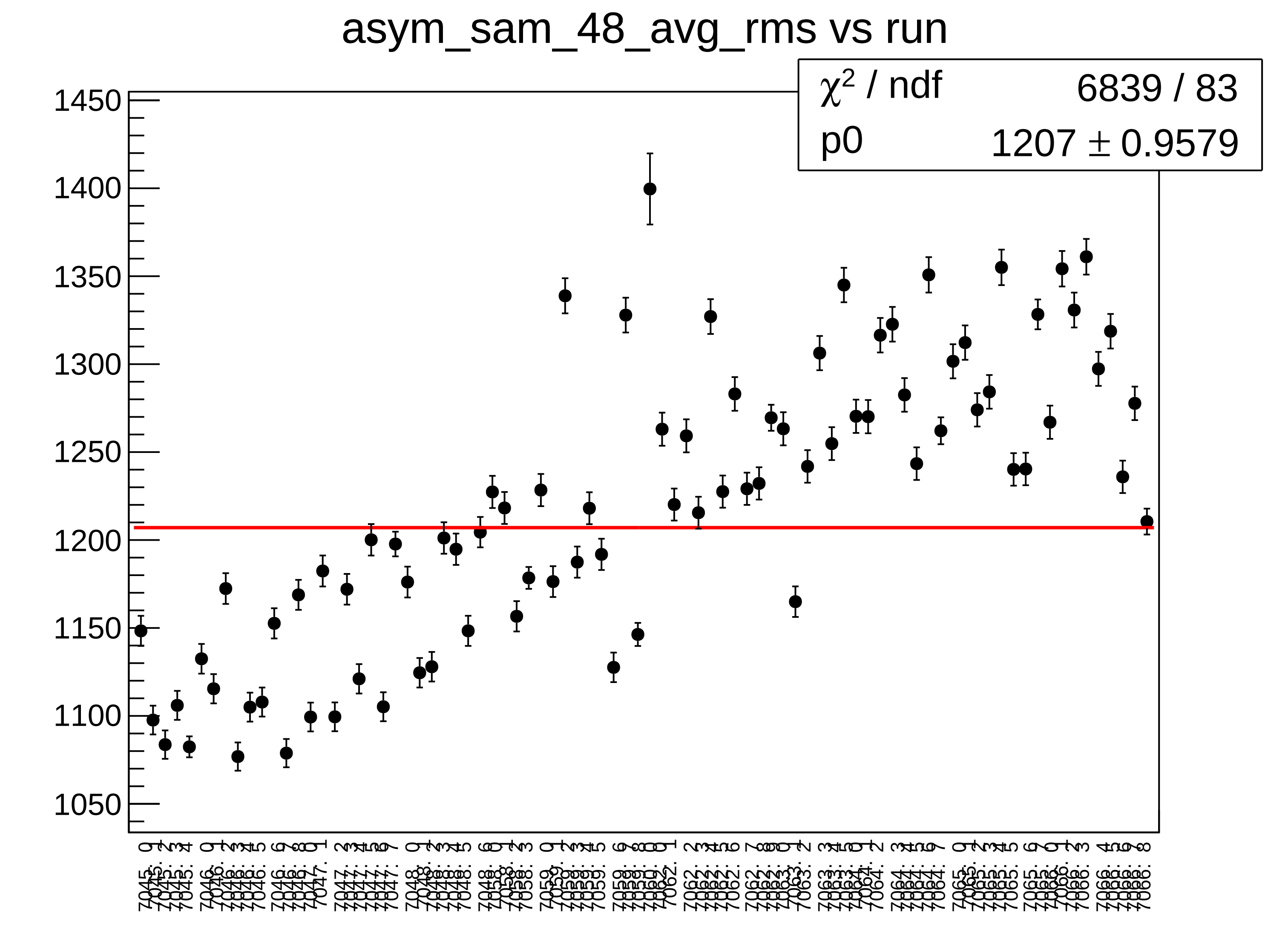



pull1D
Entries 84
Mean −0.01041
Std Dev 0.967
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

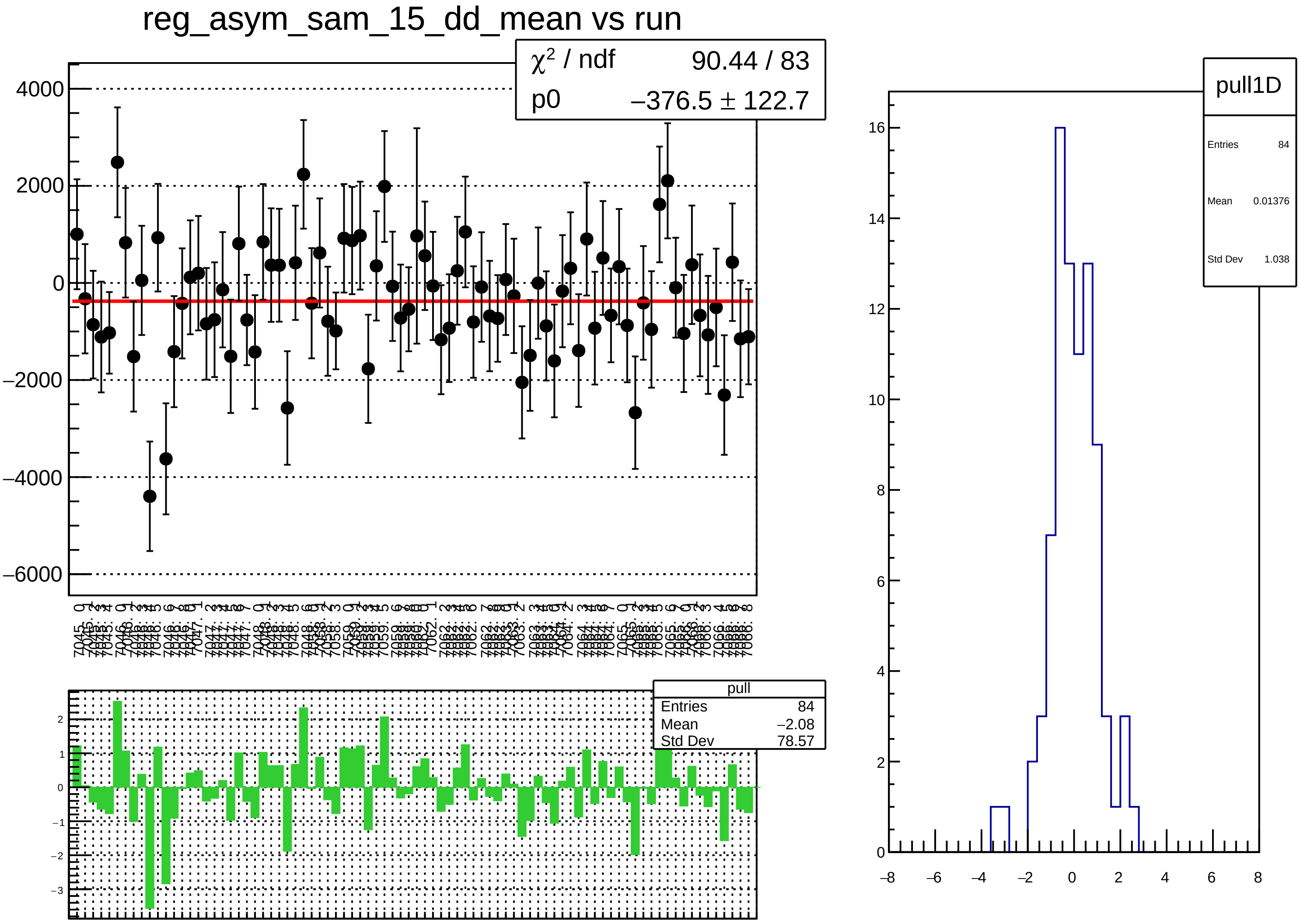

asym_sam_48_avg_correction_rms vs run
$\chi^2$ / ndf 6861 / 83
p0 1198 ± 0.9505
1400
1350
1300
1250
1200
1150
1100
1050



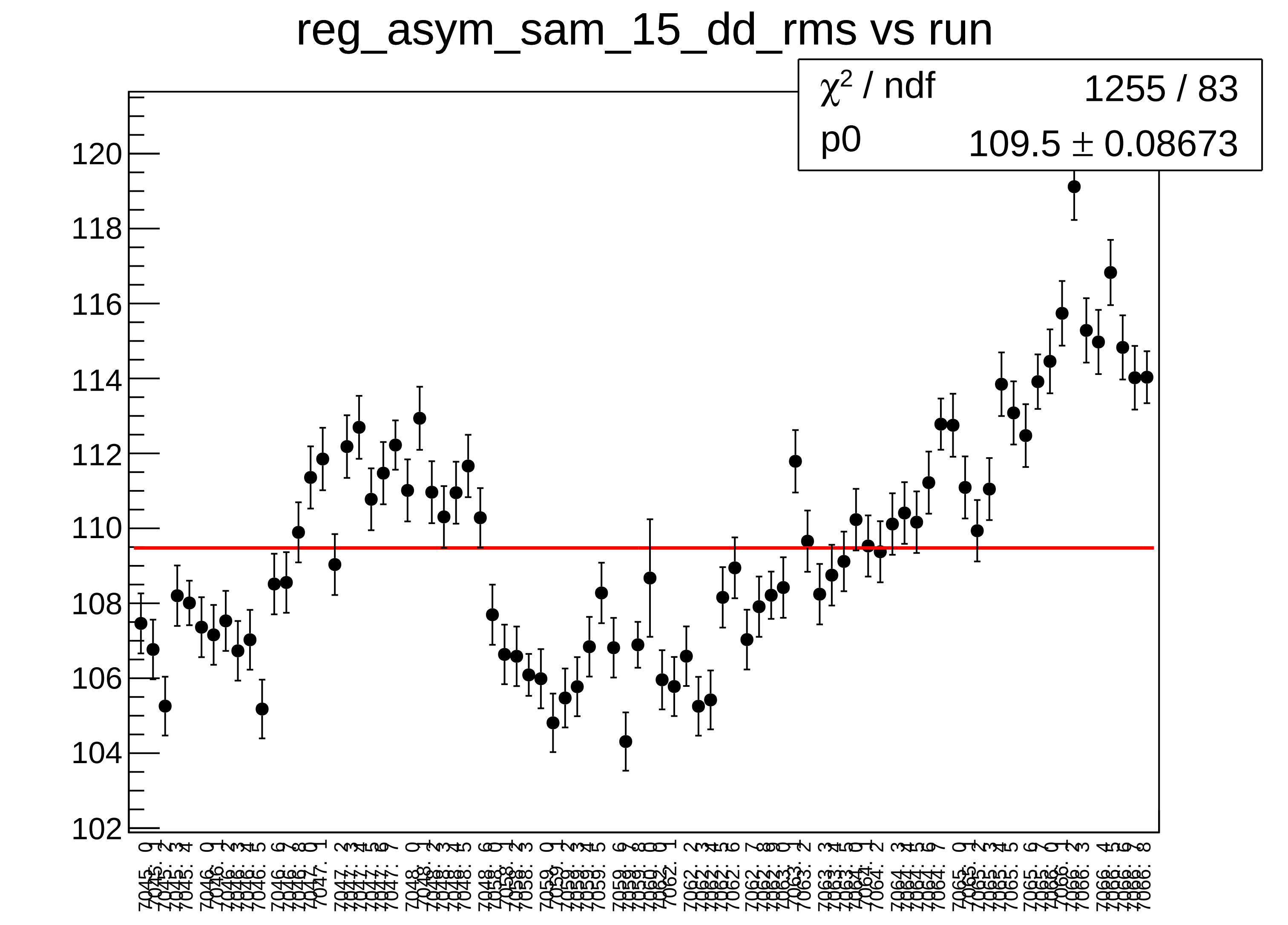
asym_sam_48_avg_mean vs run
$\chi^2$ / ndf 75.29 / 83
p0 2689 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 724.6
Std Dev 684.5
pull1D
Entries 84
Mean 0.009145
Std Dev 0.9467

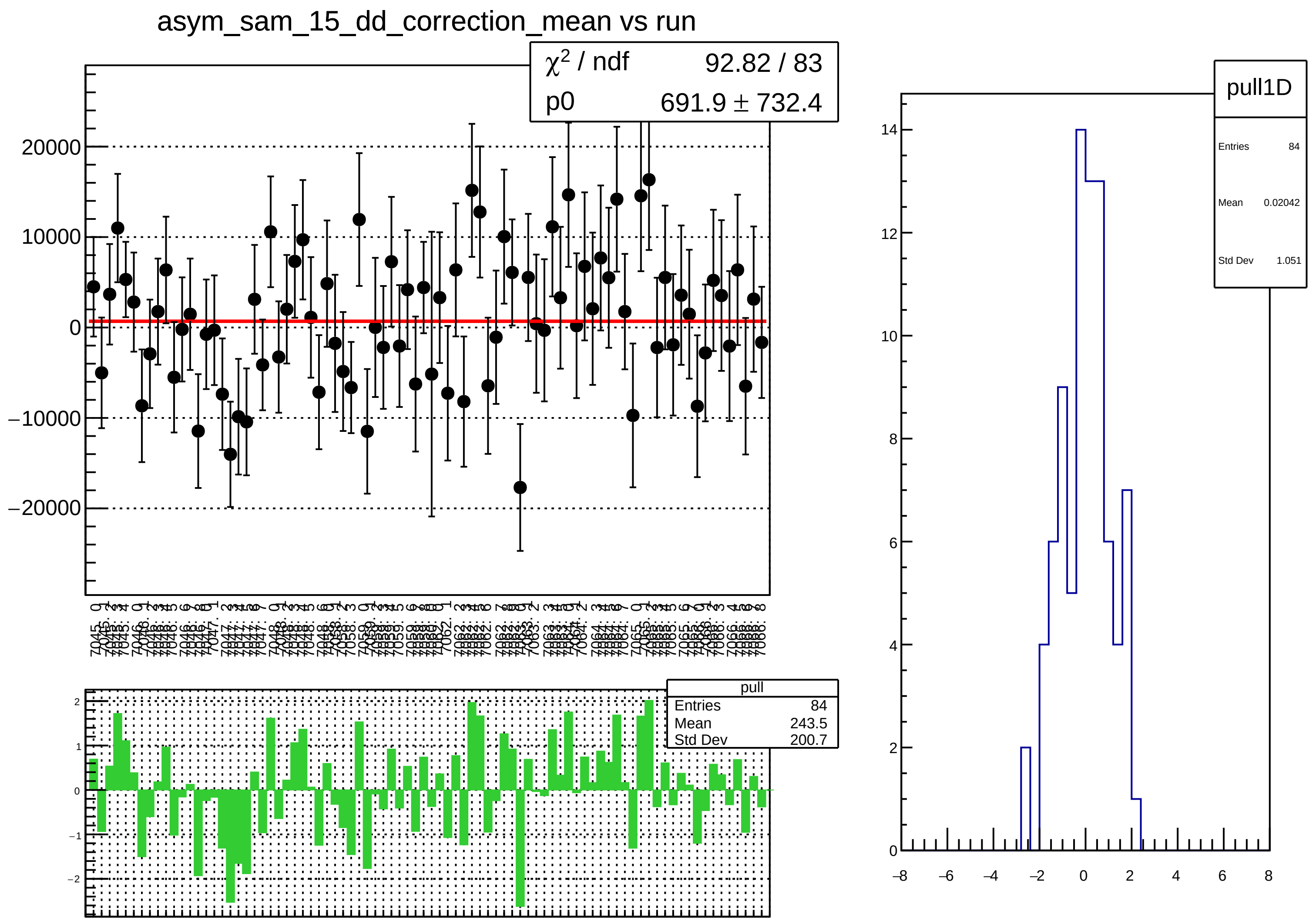


asym_sam_48_avg_rms vs run
χ2 / ndf 6839 / 83
p0 1207 ± 0.9579
1450
1400
1350
1300
1250
1200
1150
1100
1050

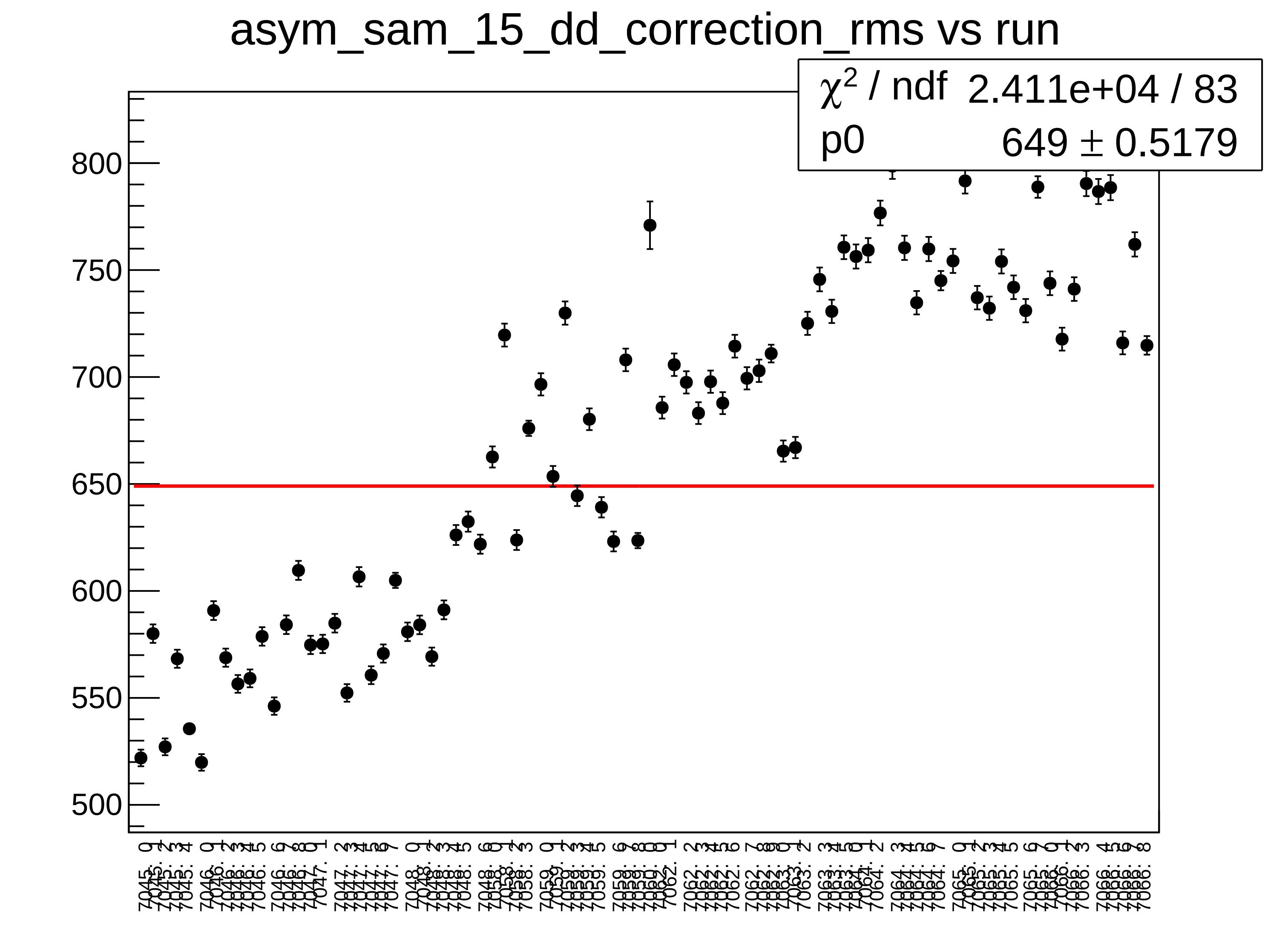


reg_asym_sam_15_dd_mean vs run
χ2 / ndf 90.44 / 83
p0 −376.5 ± 122.7
pull
Entries 84
Mean −2.08
Std Dev 78.57
pull1D
Entries 84
Mean 0.01376
Std Dev 1.038

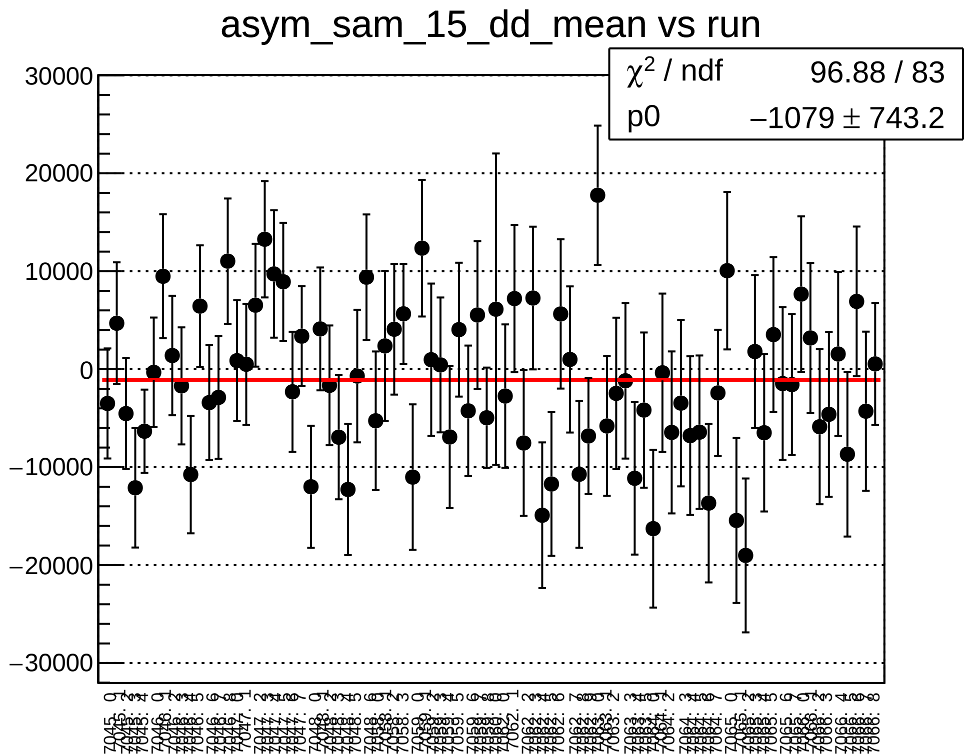

reg_asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 1255 / 83
p0 109.5 ± 0.08673

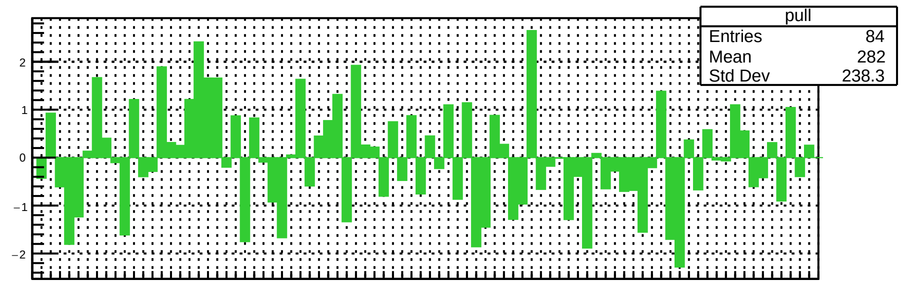


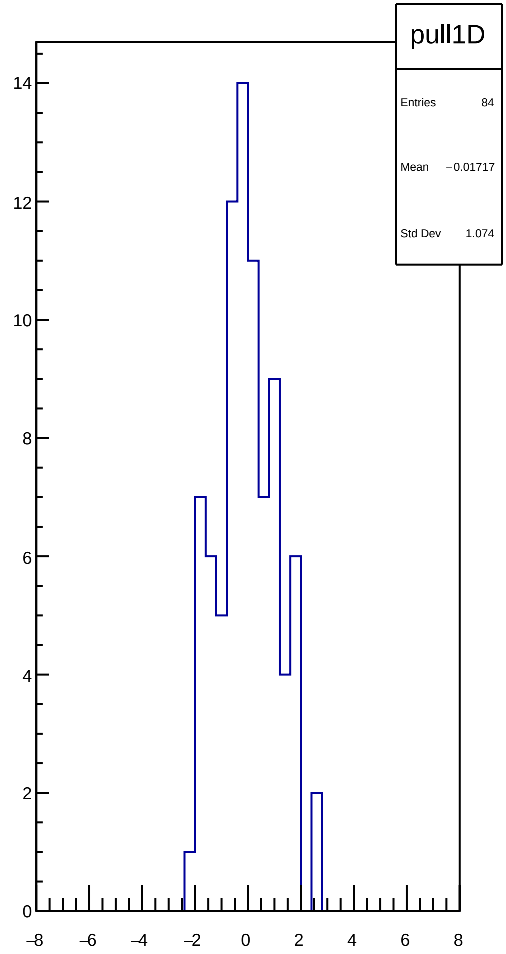
asym_sam_15_dd_correction_mean vs run
$\chi^2$ / ndf 92.82 / 83
p0 691.9 ± 732.4
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 243.5
Std Dev 200.7
pull1D
Entries 84
Mean 0.02042
Std Dev 1.051

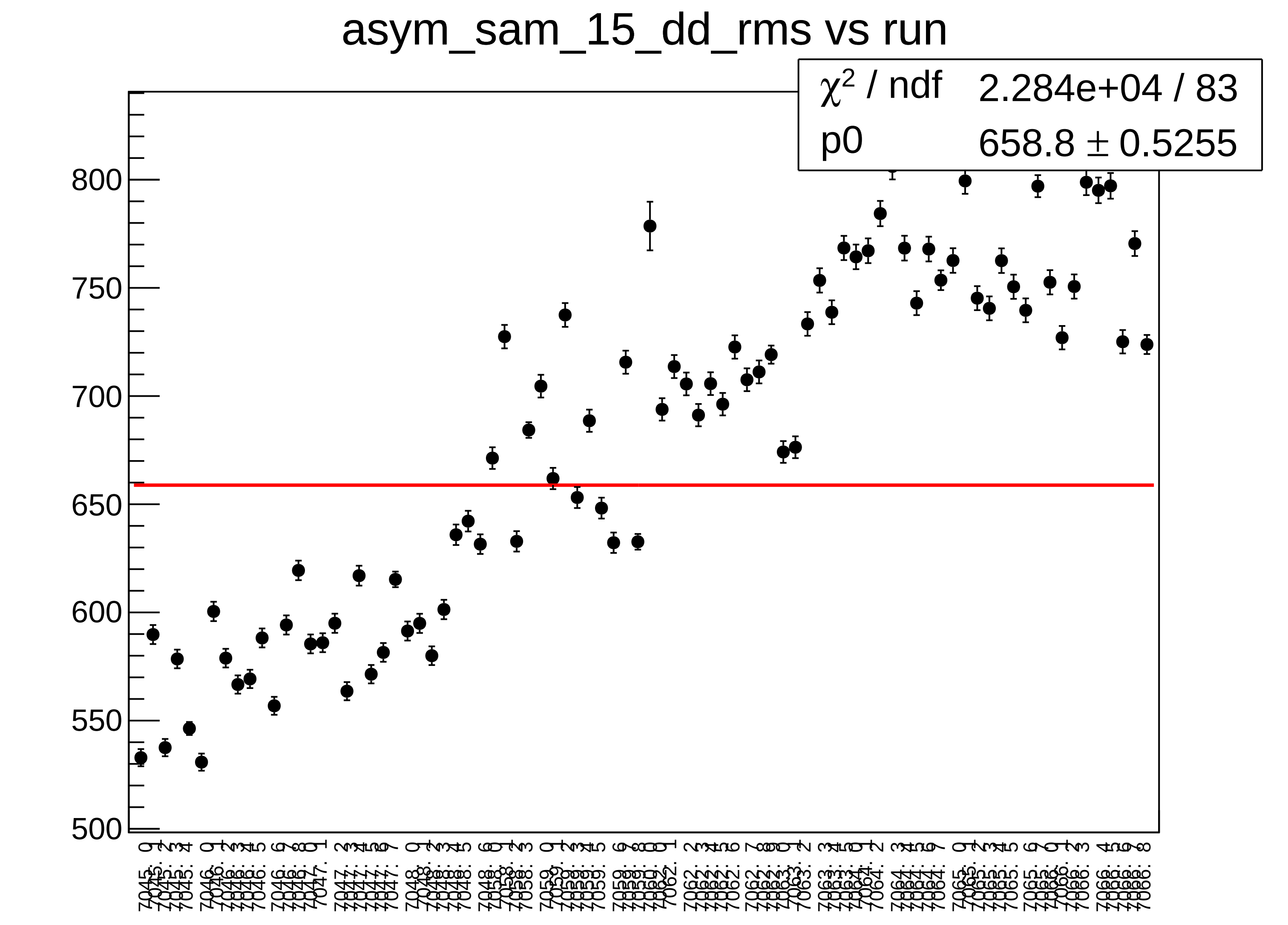


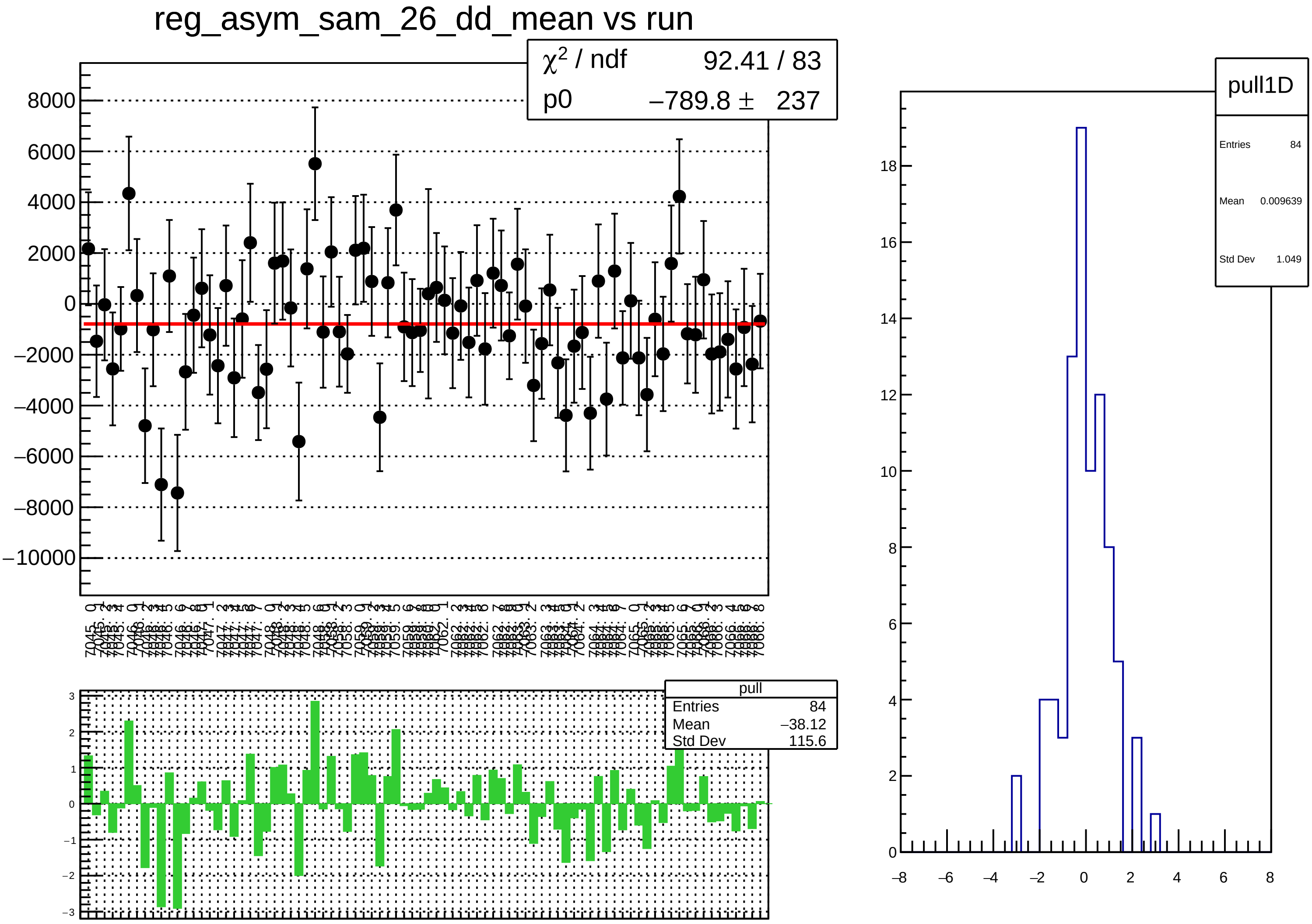
asym_sam_15_dd_correction_rms vs run
$\chi^2$ / ndf 2.411e+04 / 83
p0 649 ± 0.5179
800
750
700
650
600
550
500

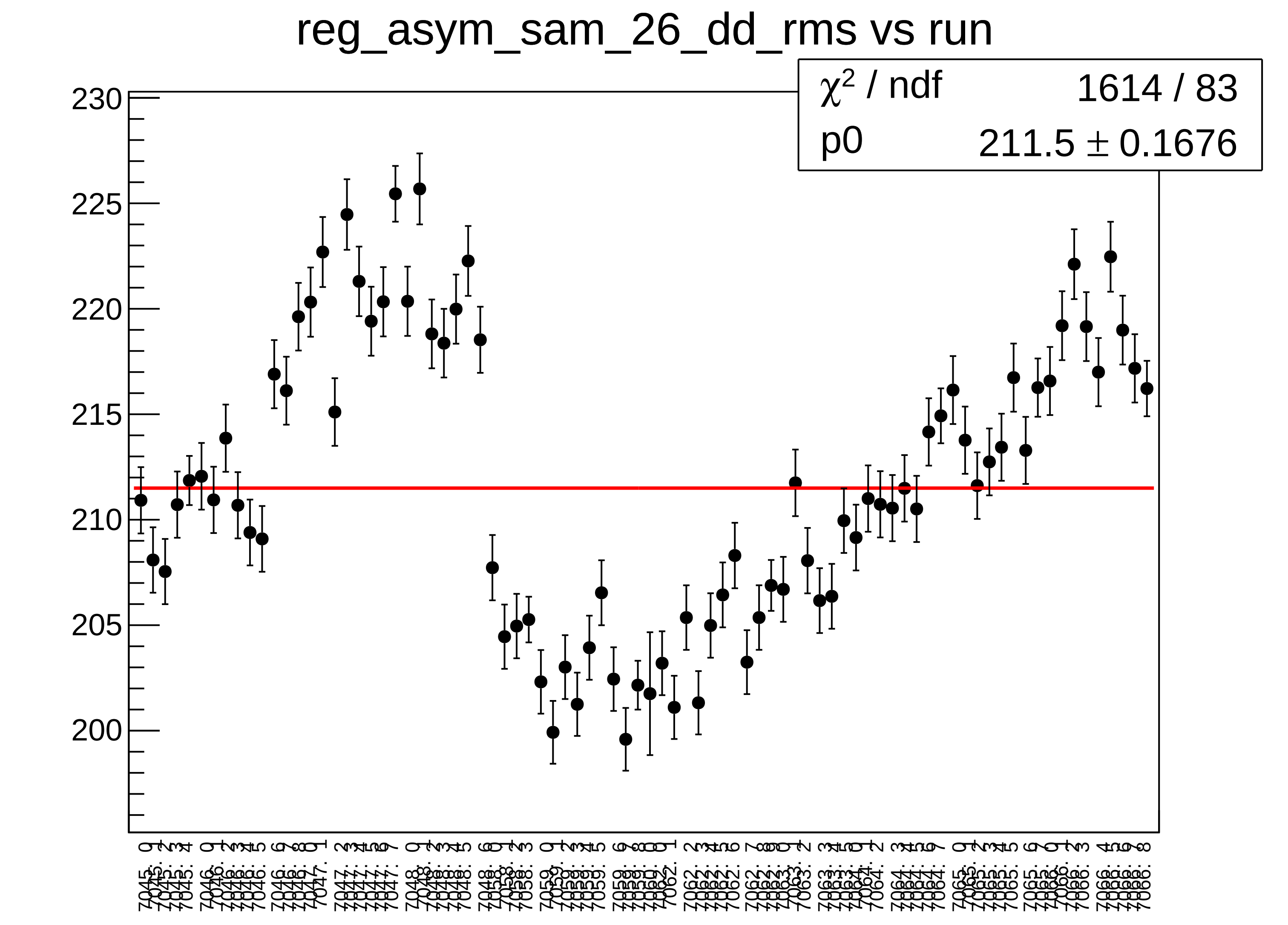

asym_sam_15_dd_mean vs run
$\chi^2$ / ndf 96.88 / 83
p0 −1079 ± 743.2
30000
20000
10000
0
−10000
−20000
−30000


pull
Entries 84
Mean 282
Std Dev 238.3

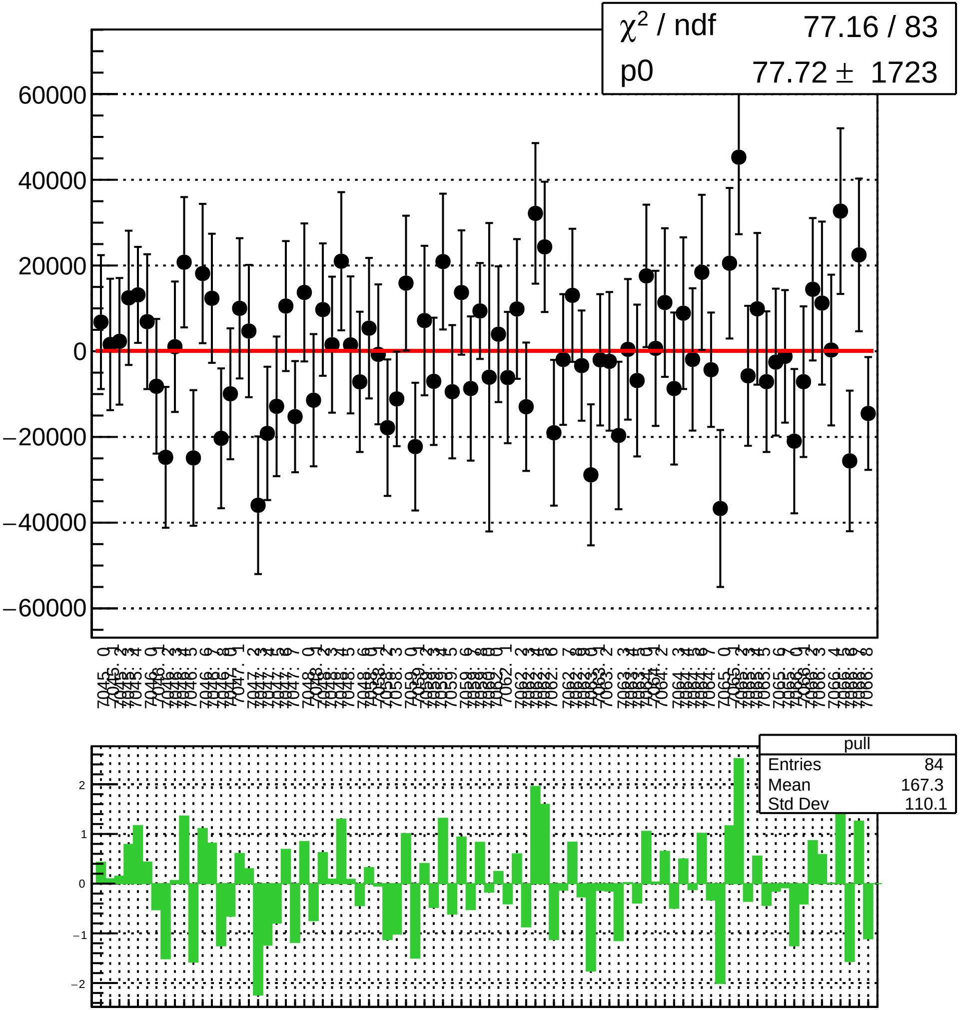

pull1D
Entries 84
Mean −0.01717
Std Dev 1.074

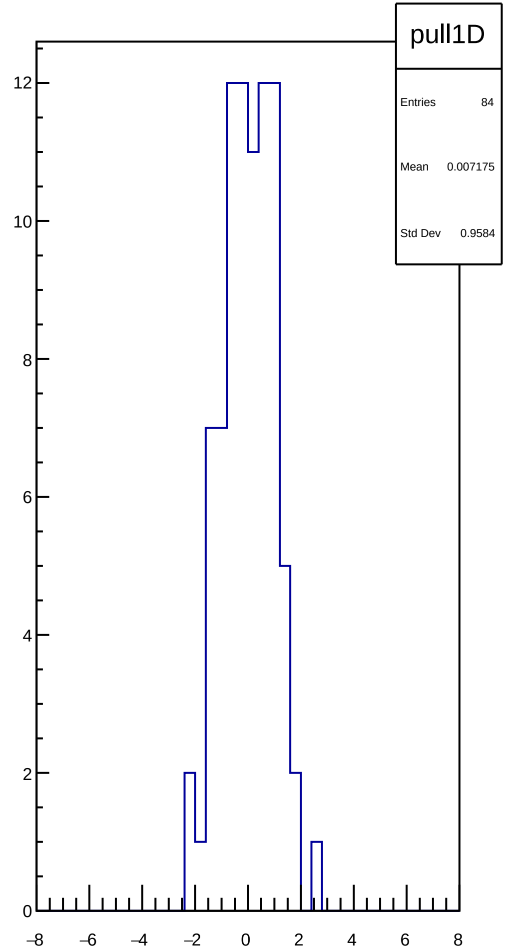

asym_sam_15_dd_rms vs run
χ2 / ndf 2.284e+04 / 83
p0 658.8 ± 0.5255
800
750
700
650
600
550
500

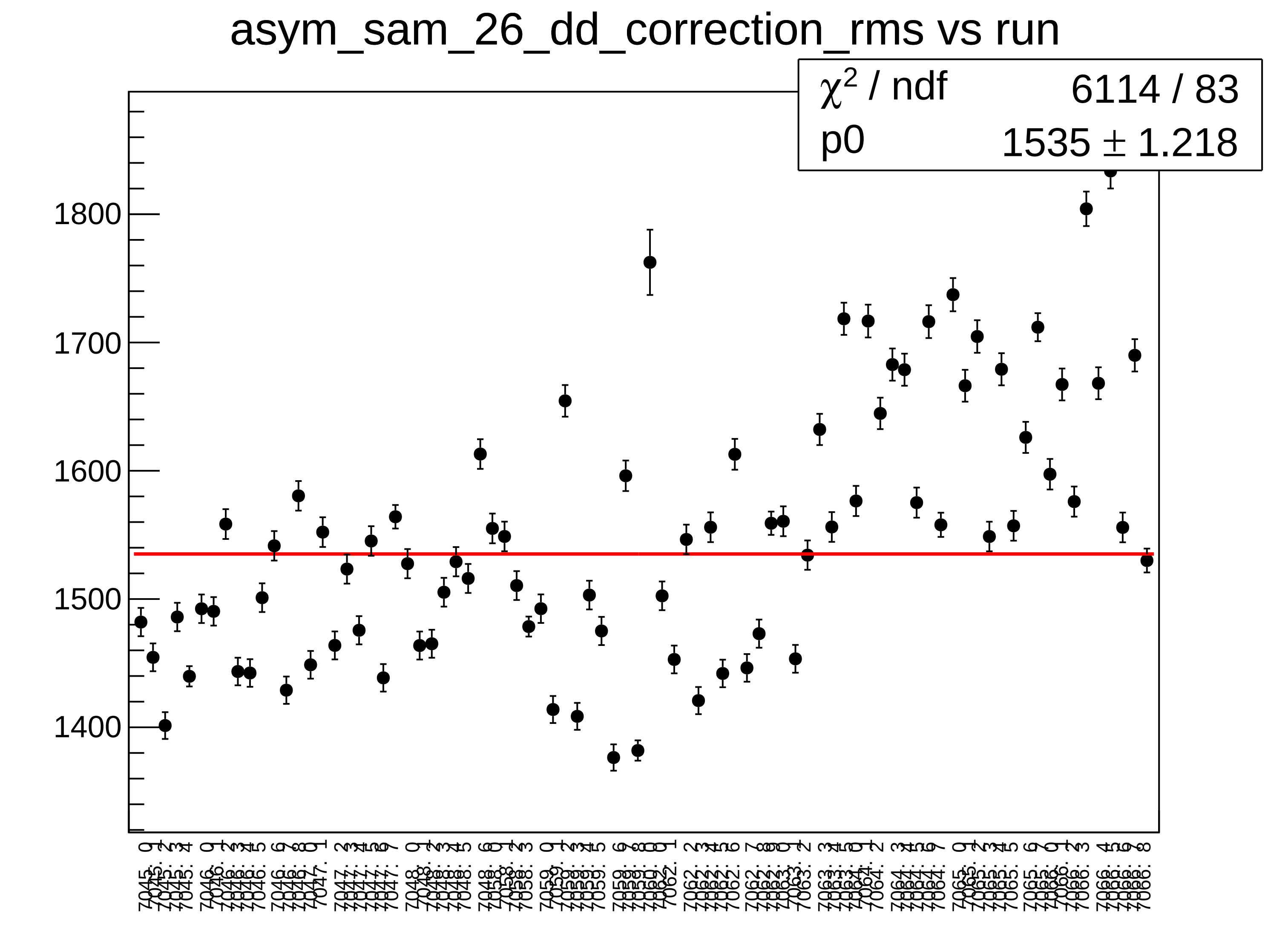

reg_asym_sam_26_dd_mean vs run
χ2 / ndf 92.41 / 83
p0 −789.8 ± 237
pull
Entries 84
Mean −38.12
Std Dev 115.6
pull1D
Entries 84
Mean 0.009639
Std Dev 1.049

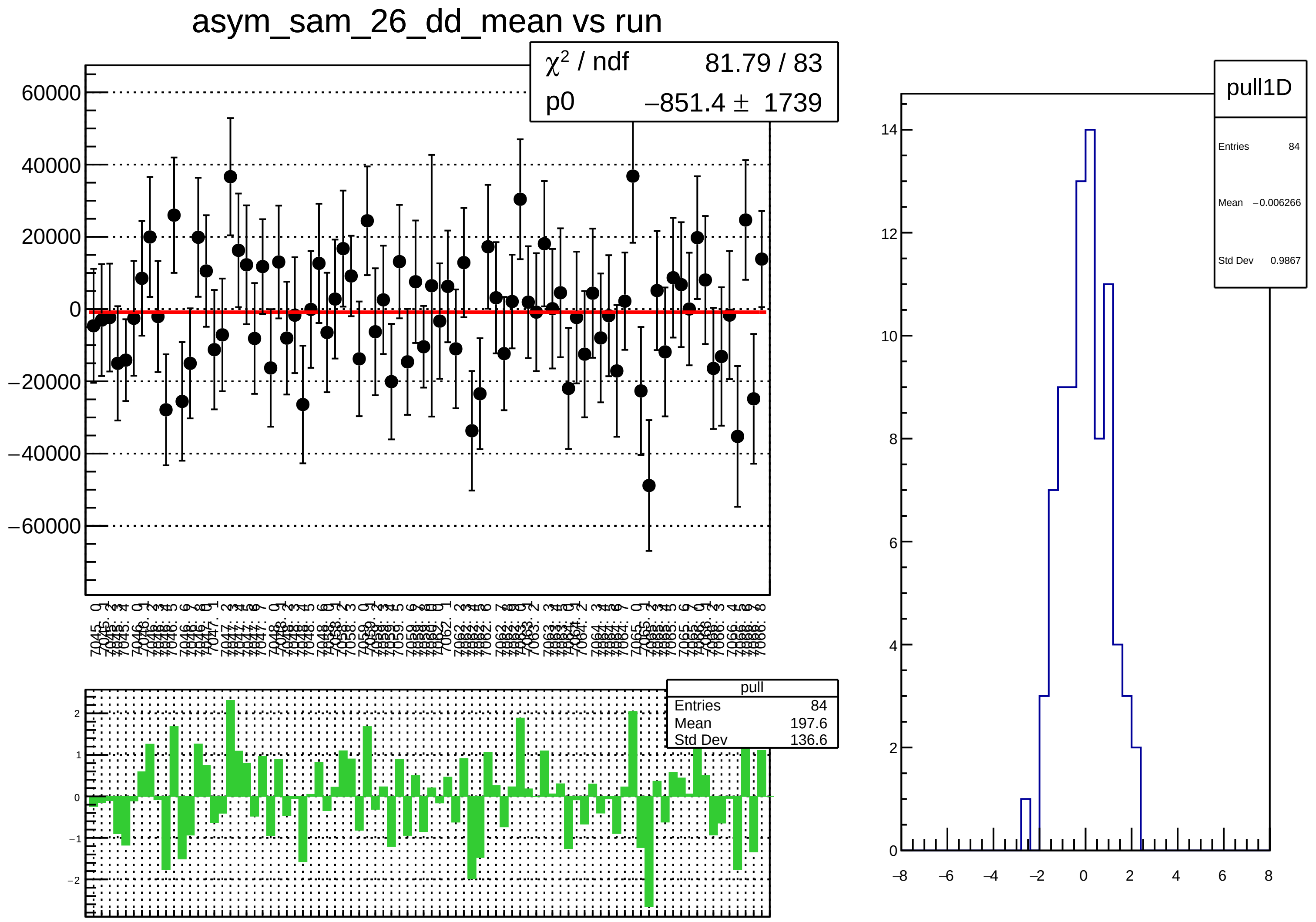

reg_asym_sam_26_dd_rms vs run
$\chi^2$ / ndf 1614 / 83
p0 211.5 ± 0.1676

asym_sam_26_dd_correction_mean vs run

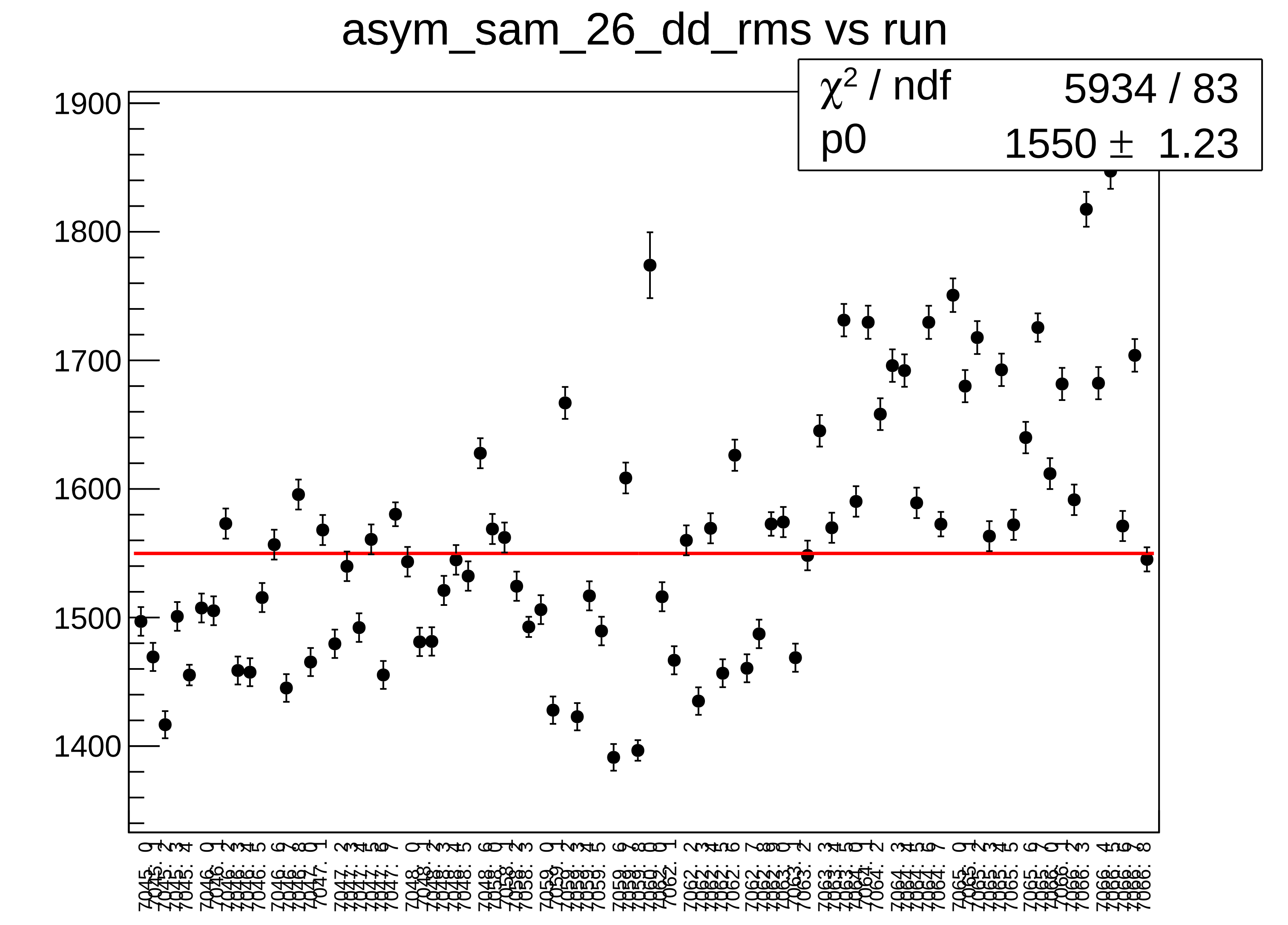


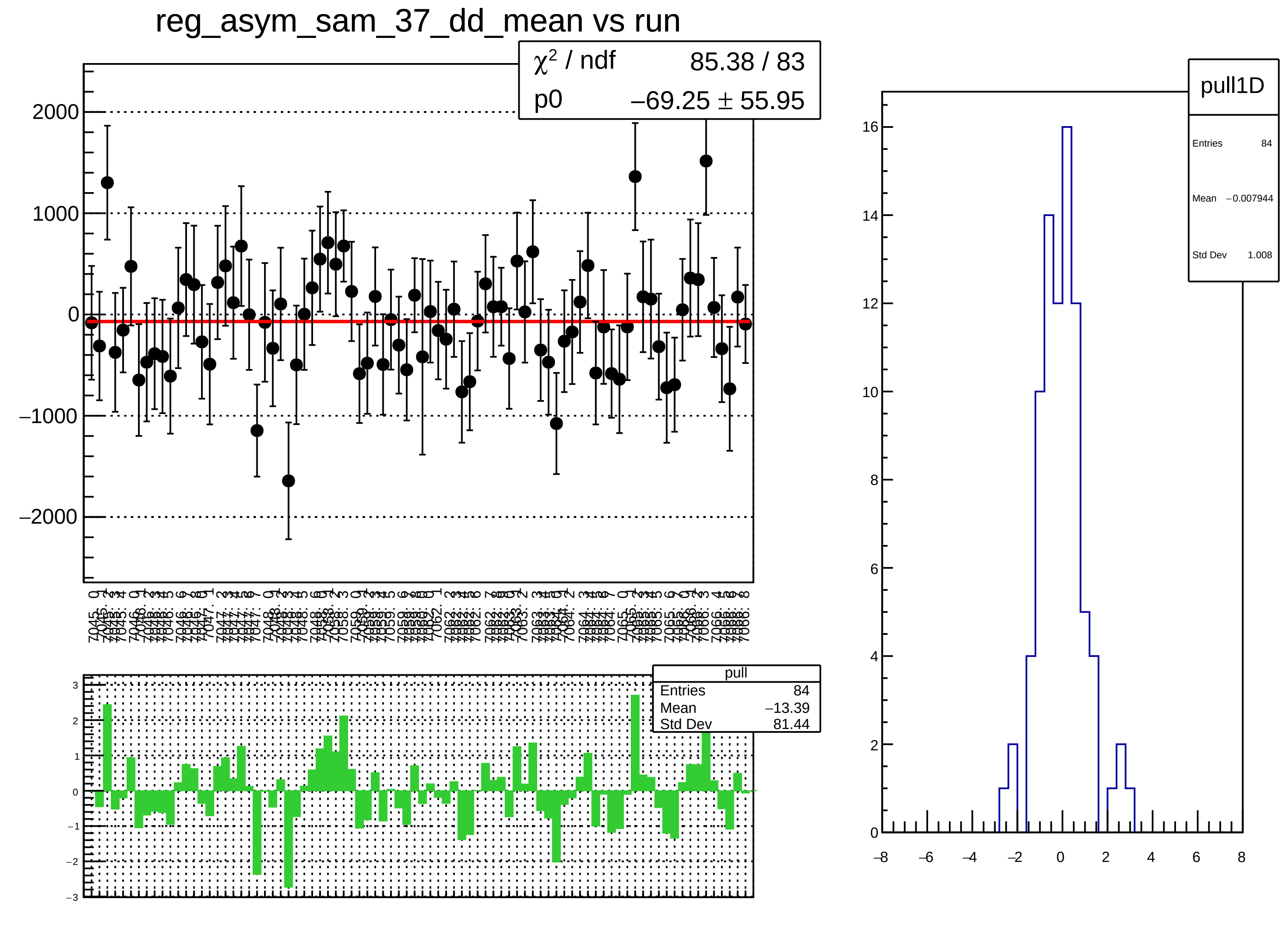

asym_sam_26_dd_correction_rms vs run
$\chi^2$ / ndf 6114 / 83
p0 1535 ± 1.218
1800
1700
1600
1500
1400



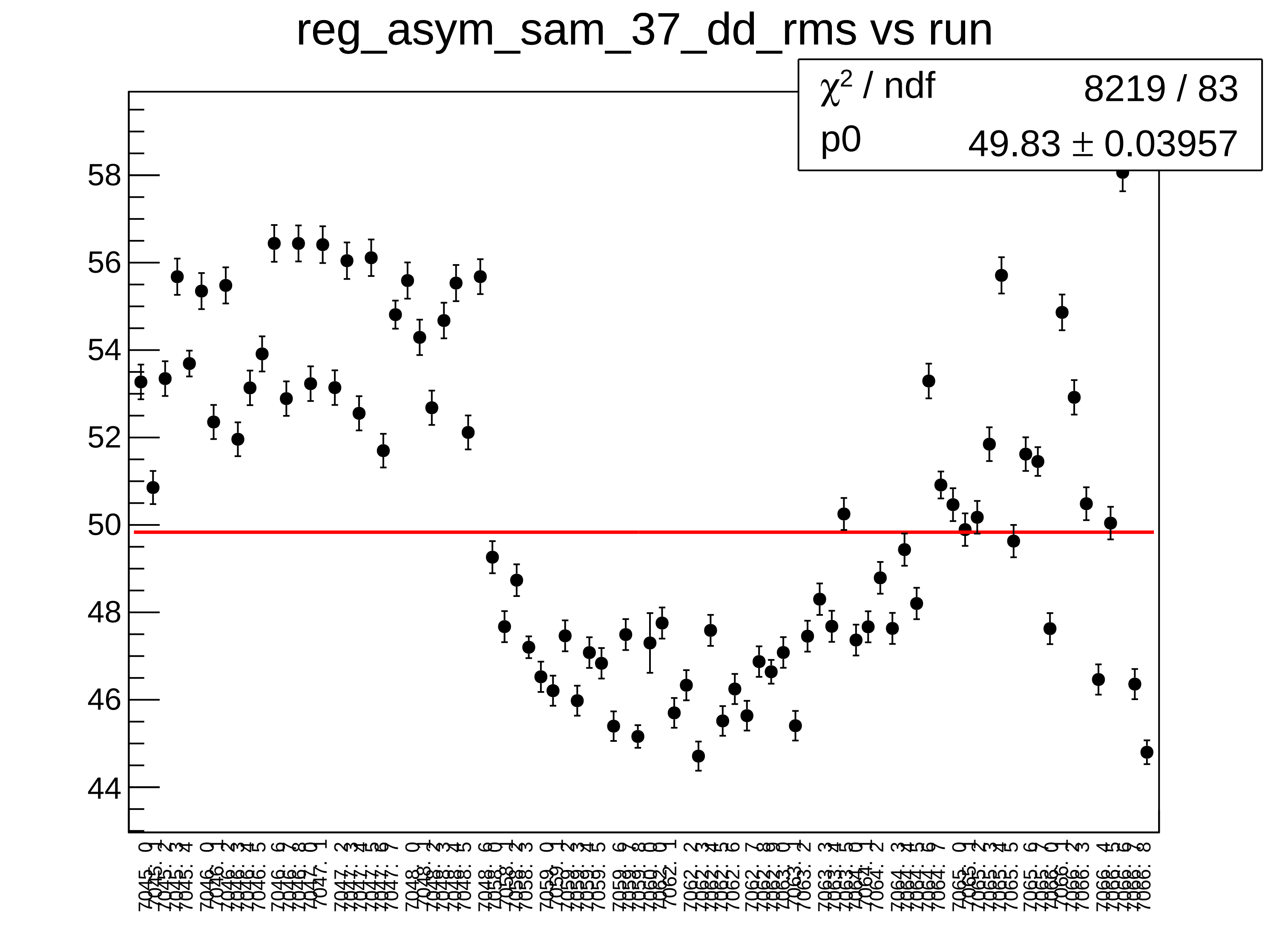
asym_sam_26_dd_mean vs run
$\chi^2$ / ndf 81.79 / 83
p0 −851.4 ± 1739
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 197.6
Std Dev 136.6
pull1D
Entries 84
Mean −0.006266
Std Dev 0.9867



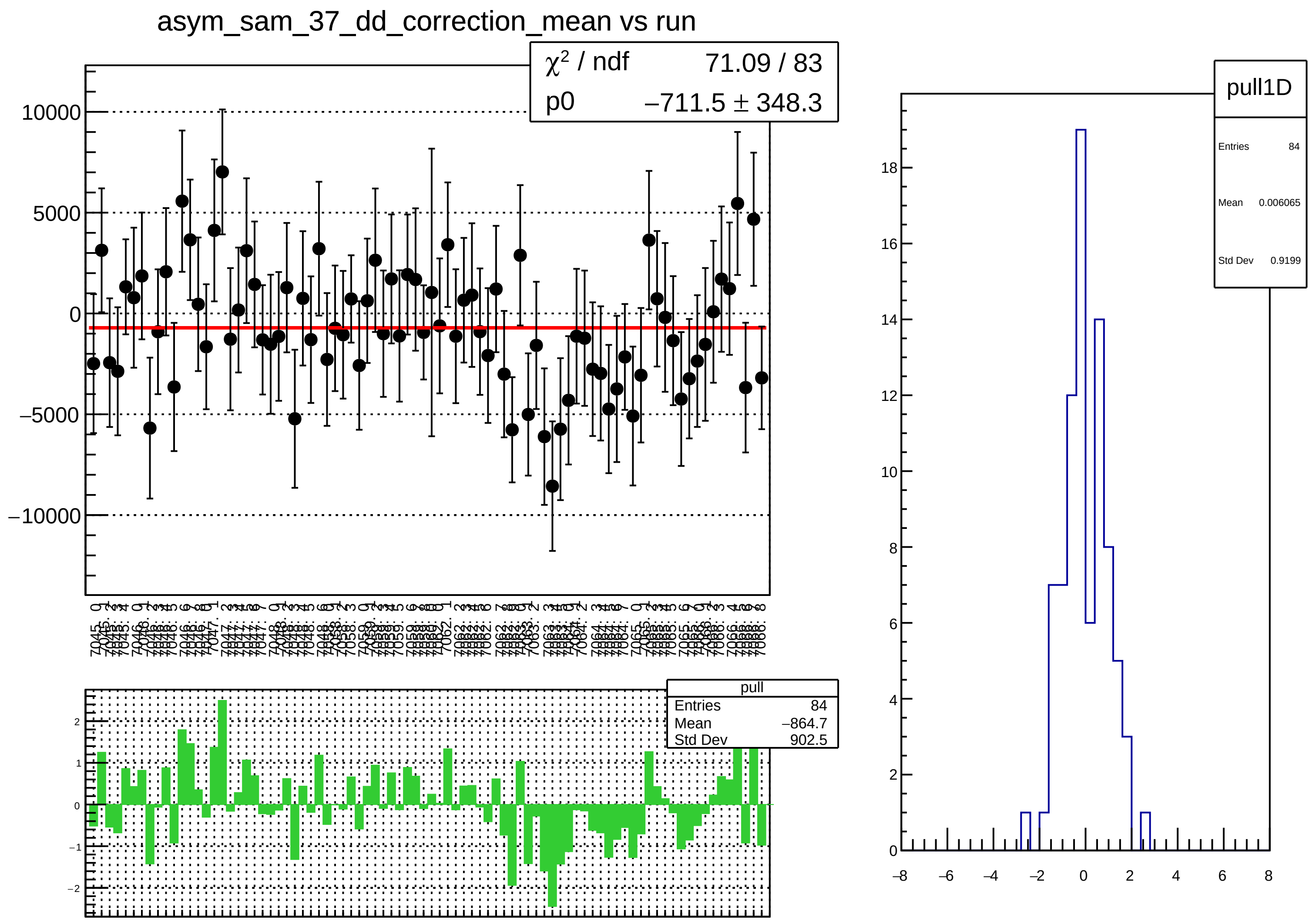
asym_sam_26_dd_rms vs run
χ2 / ndf 5934 / 83
p0 1550 ± 1.23
1900
1800
1700
1600
1500
1400



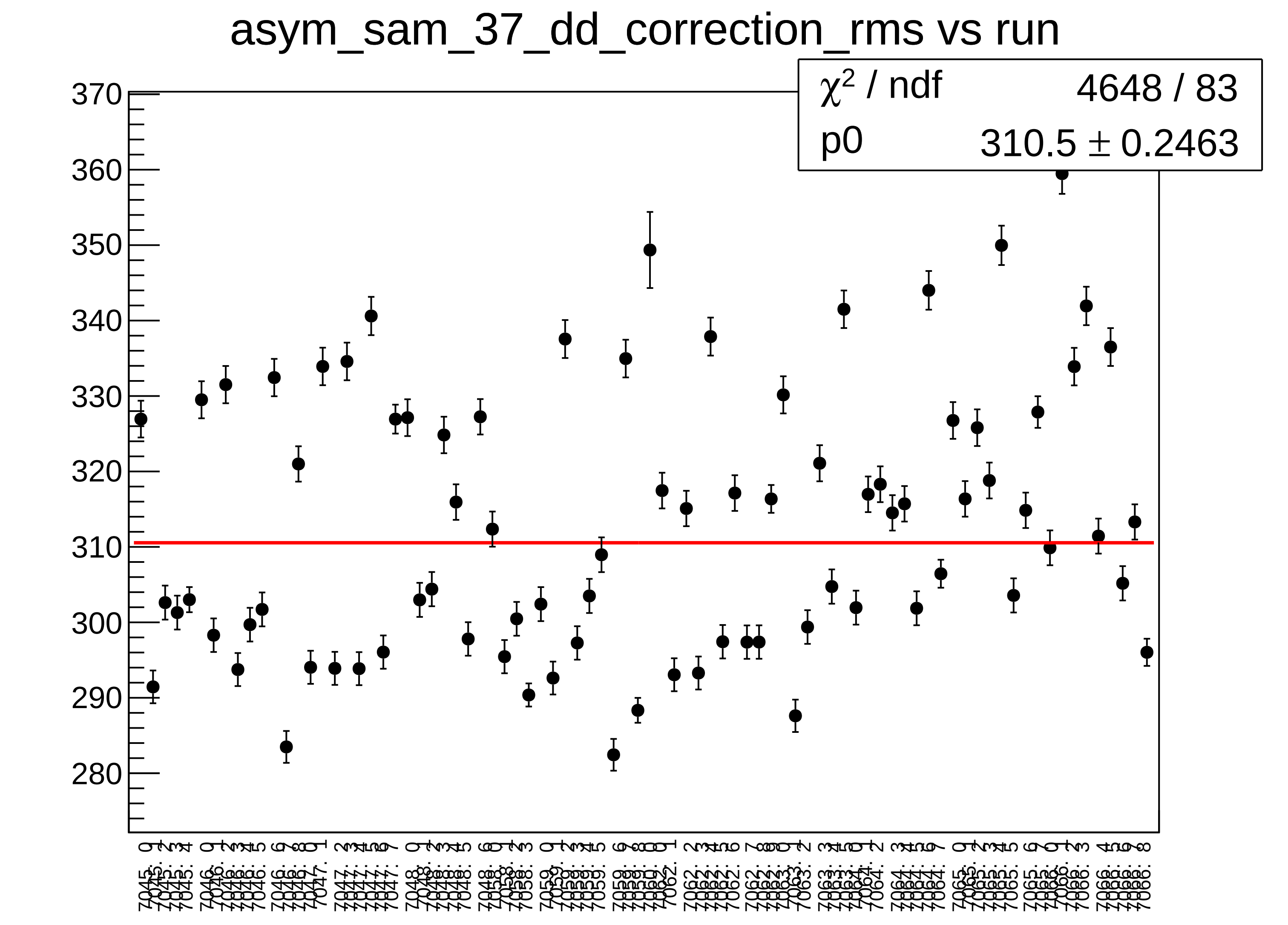
reg_asym_sam_37_dd_mean vs run
$\chi^2$ / ndf 85.38 / 83
p0 −69.25 ± 55.95
pull
Entries 84
Mean −13.39
Std Dev 81.44
pull1D
Entries 84
Mean −0.007944
Std Dev 1.008

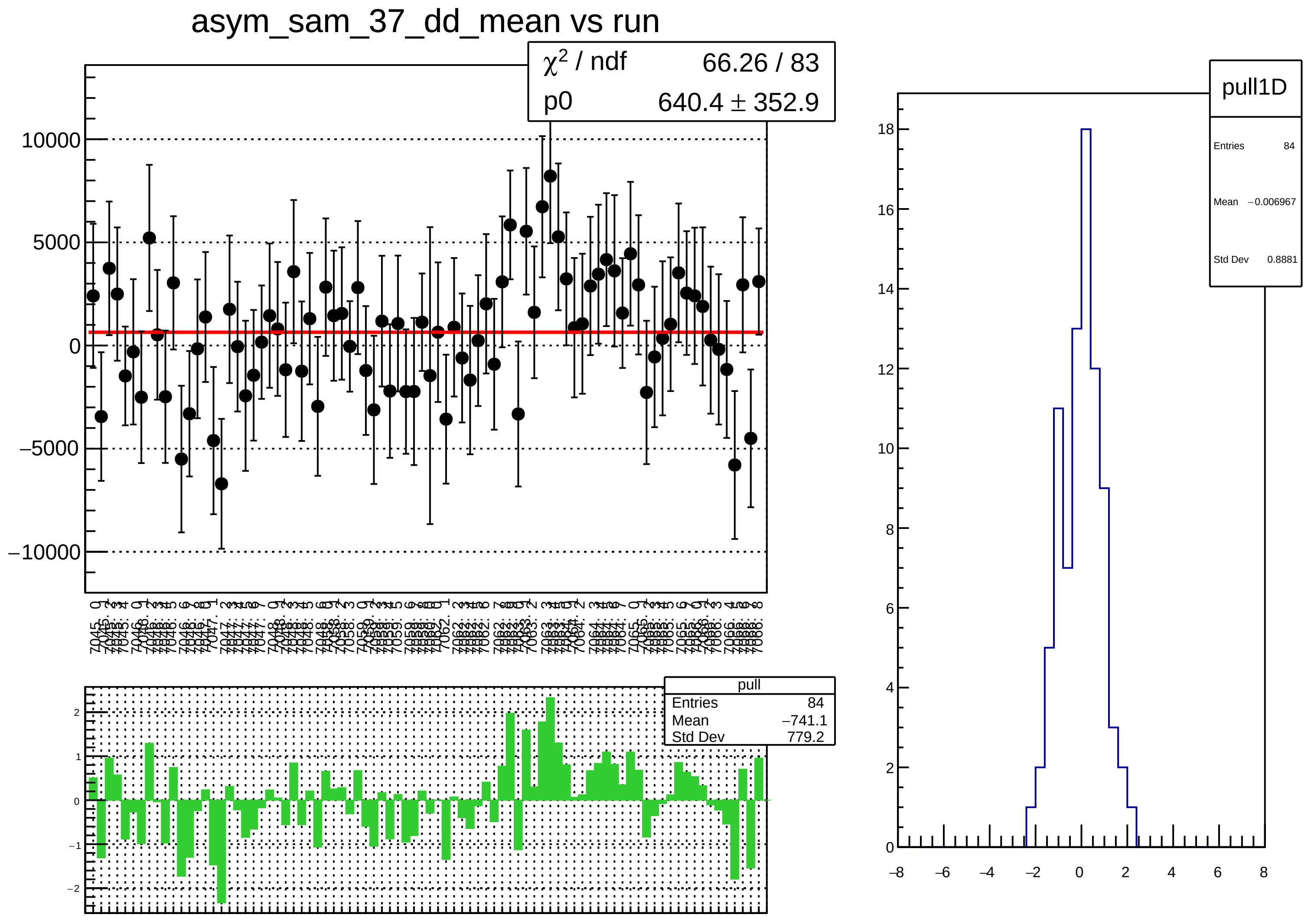


reg_asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 8219 / 83
p0 49.83 ± 0.03957
58
56
54
52
50
48
46
44

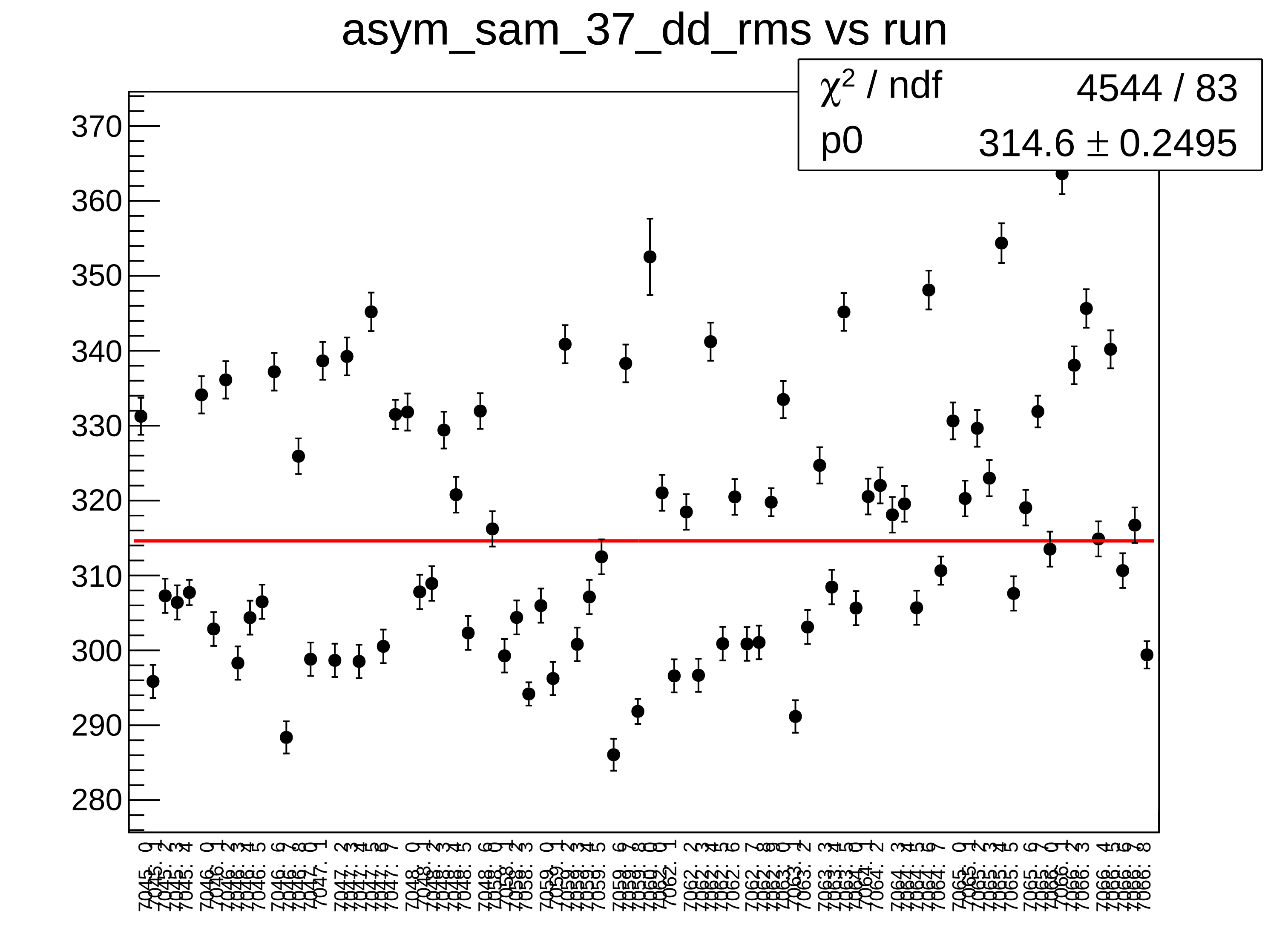


asym_sam_37_dd_correction_mean vs run
$\chi^2$ / ndf 71.09 / 83
p0 −711.5 ± 348.3
pull
Entries 84
Mean −864.7
Std Dev 902.5
pull1D
Entries 84
Mean 0.006065
Std Dev 0.9199

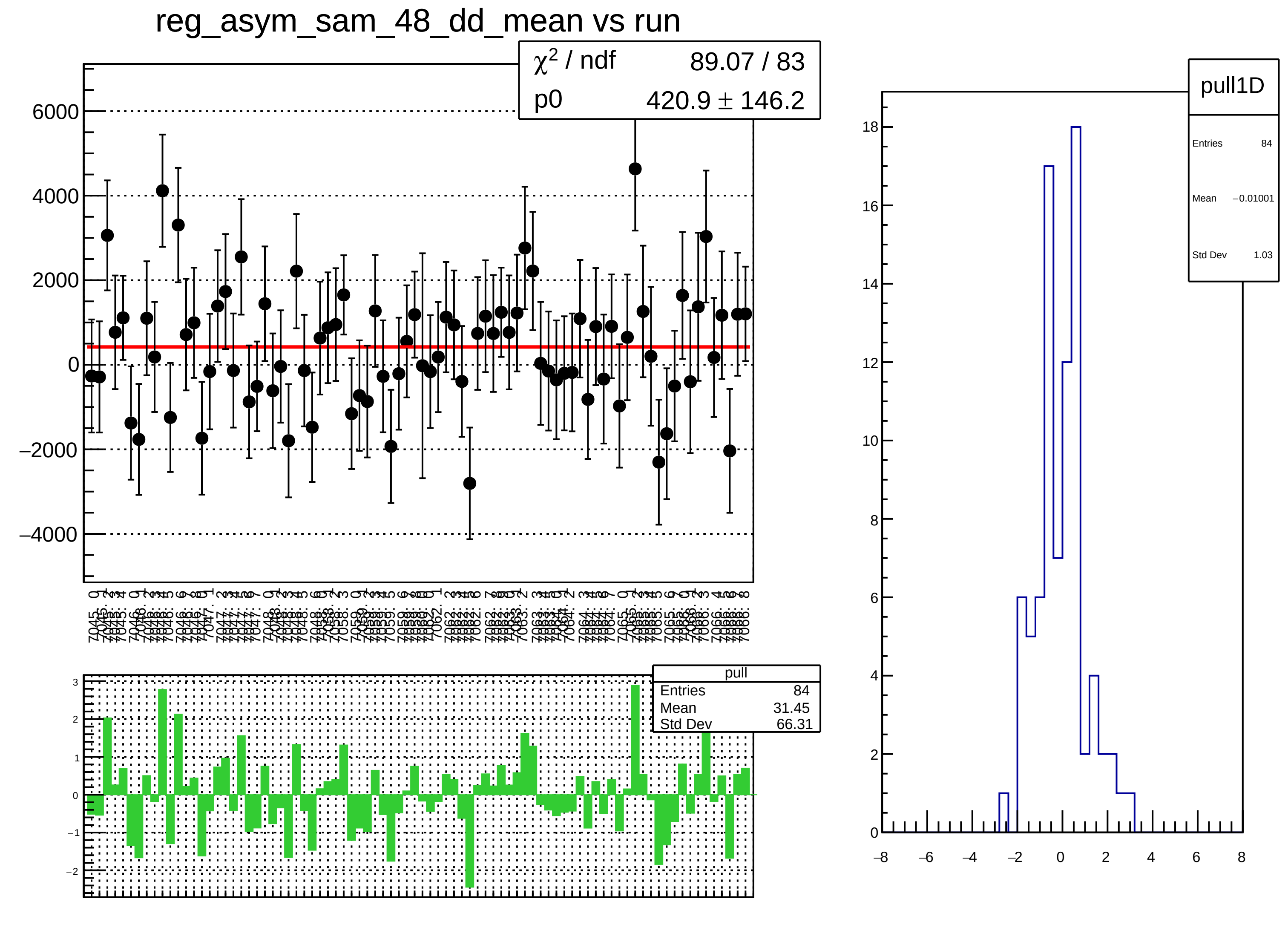

asym_sam_37_dd_correction_rms vs run
χ2 / ndf 4648 / 83
p0 310.5 ± 0.2463
370
360
350
340
330
320
310
300
290
280



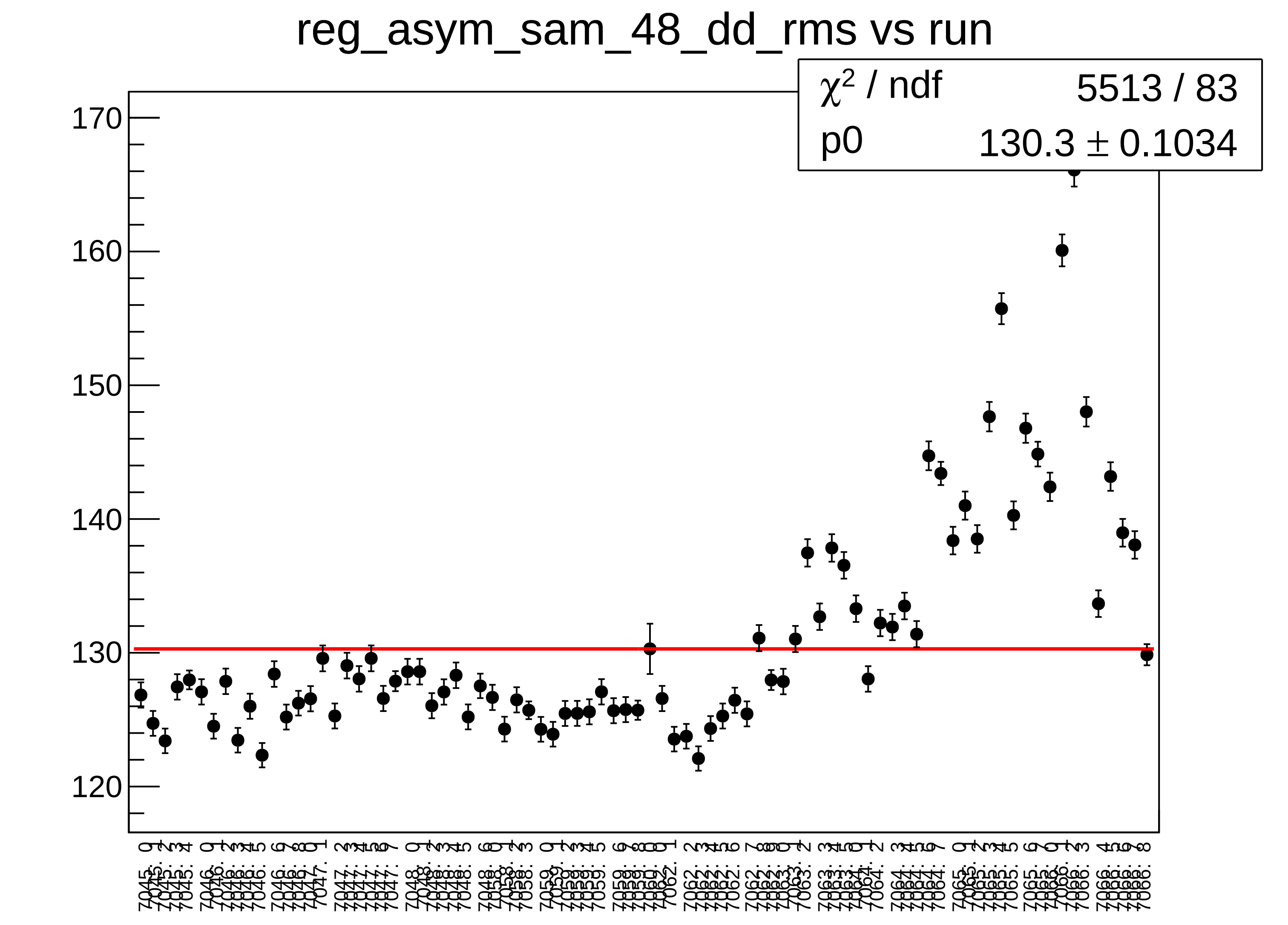
asym_sam_37_dd_mean vs run
$\chi^2$ / ndf 66.26 / 83
p0 640.4 ± 352.9
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −741.1
Std Dev 779.2
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.006967
Std Dev 0.8881
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



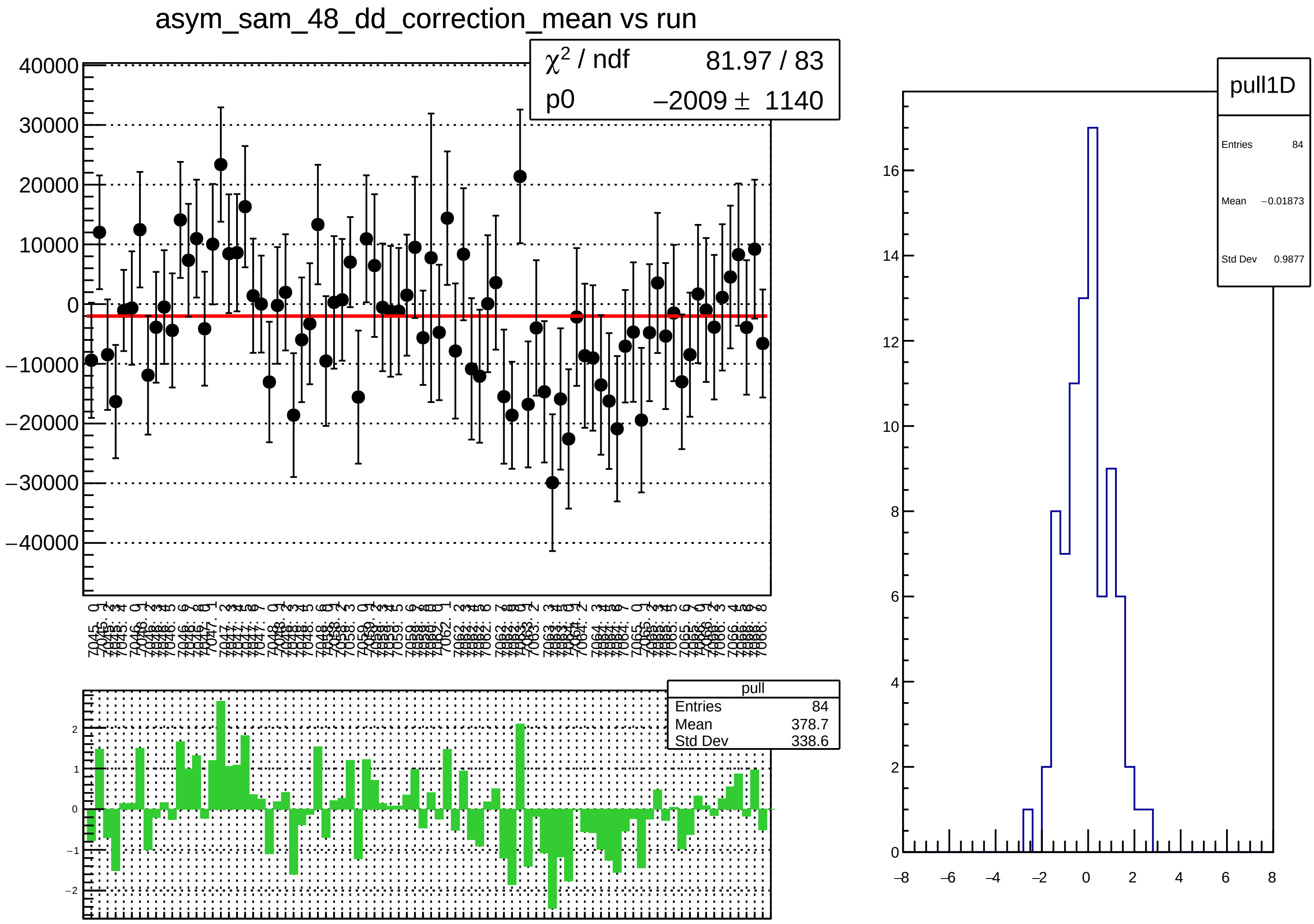
asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 4544 / 83
p0 314.6 ± 0.2495
370
360
350
340
330
320
310
300
290
280

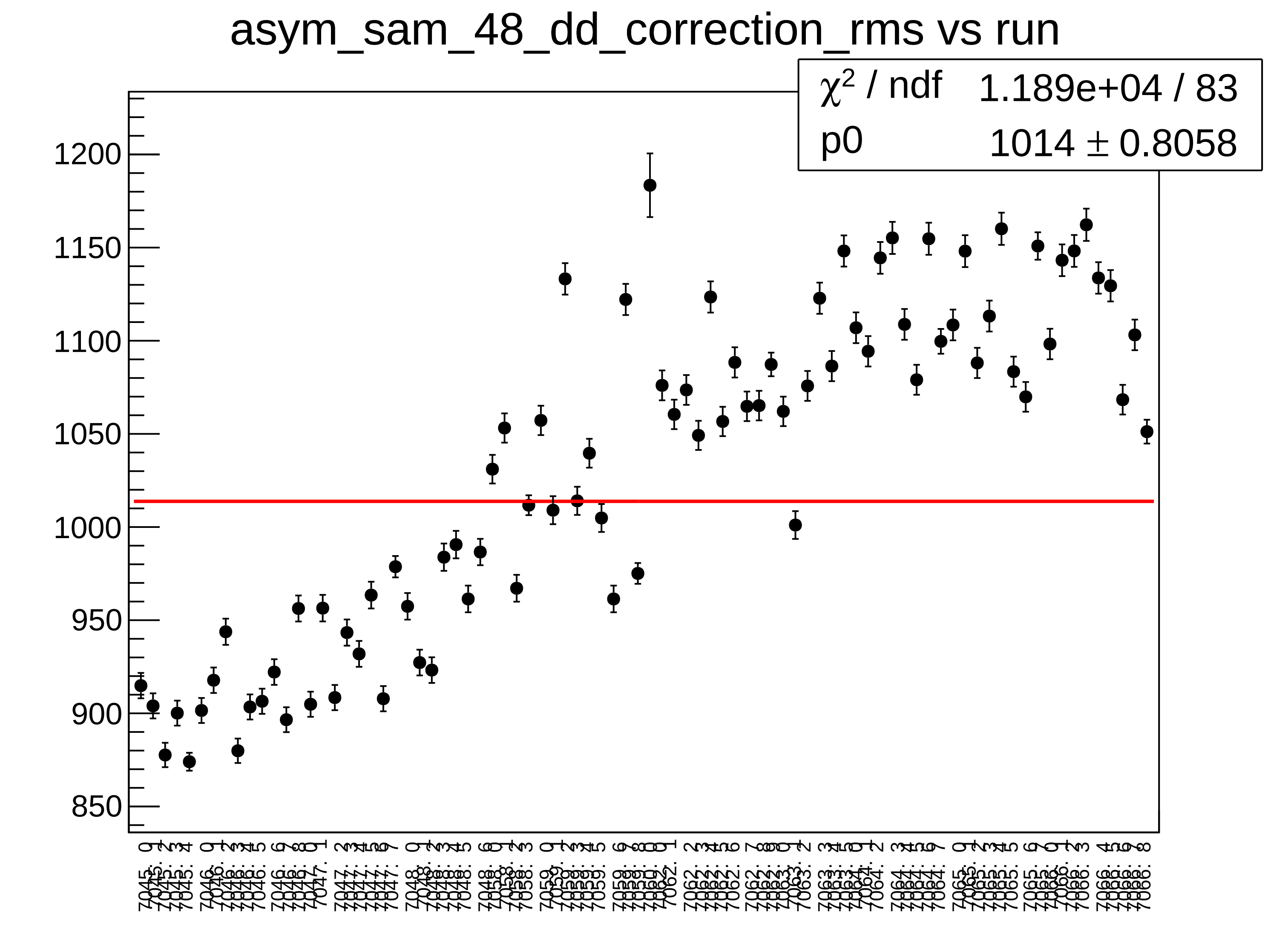


reg_asym_sam_48_dd_mean vs run
$\chi^2$ / ndf 89.07 / 83
p0 420.9 ± 146.2
pull
Entries 84
Mean 31.45
Std Dev 66.31
pull1D
Entries 84
Mean −0.01001
Std Dev 1.03

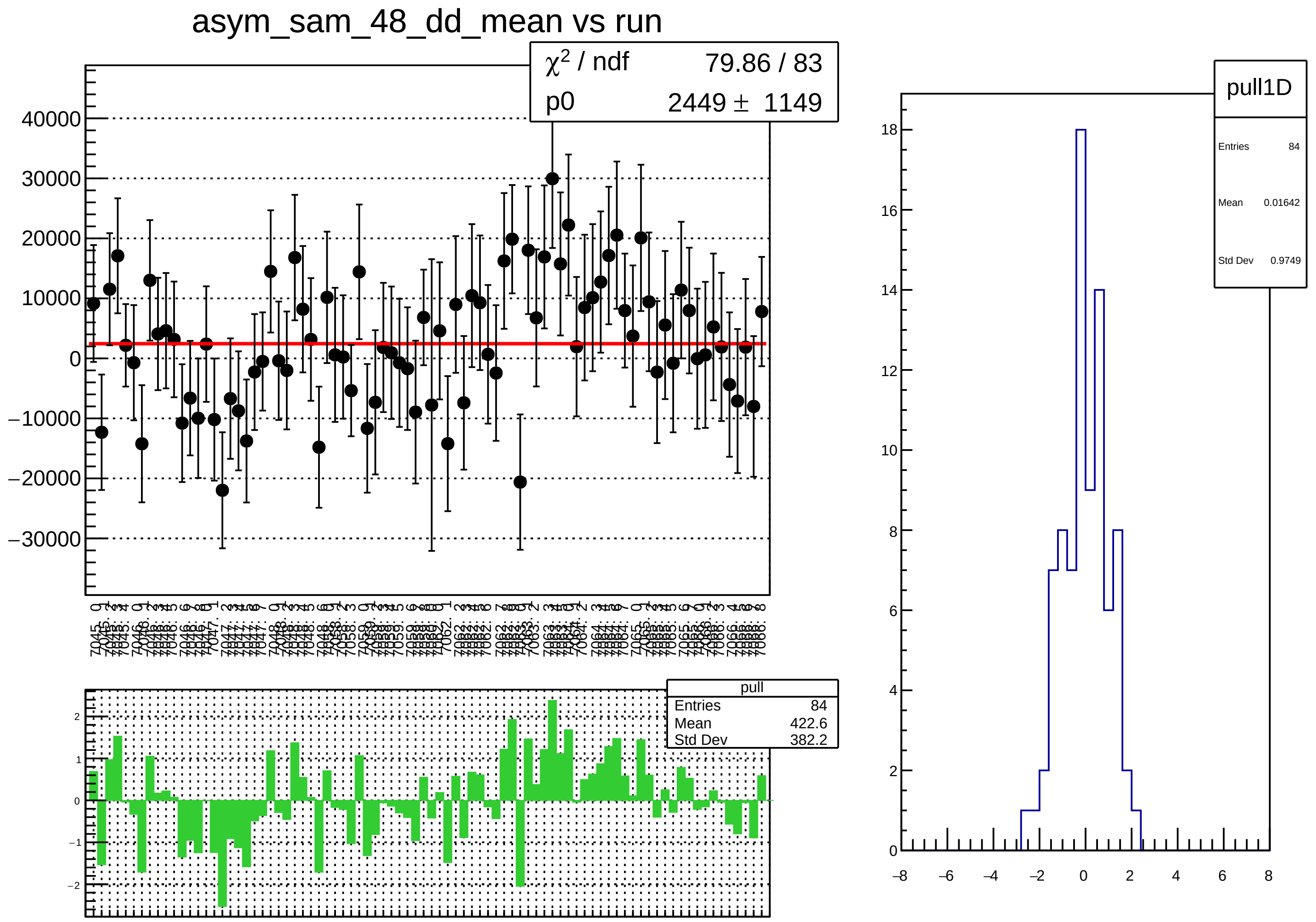


reg_asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 5513 / 83
p0 130.3 ± 0.1034
170
160
150
140
130
120

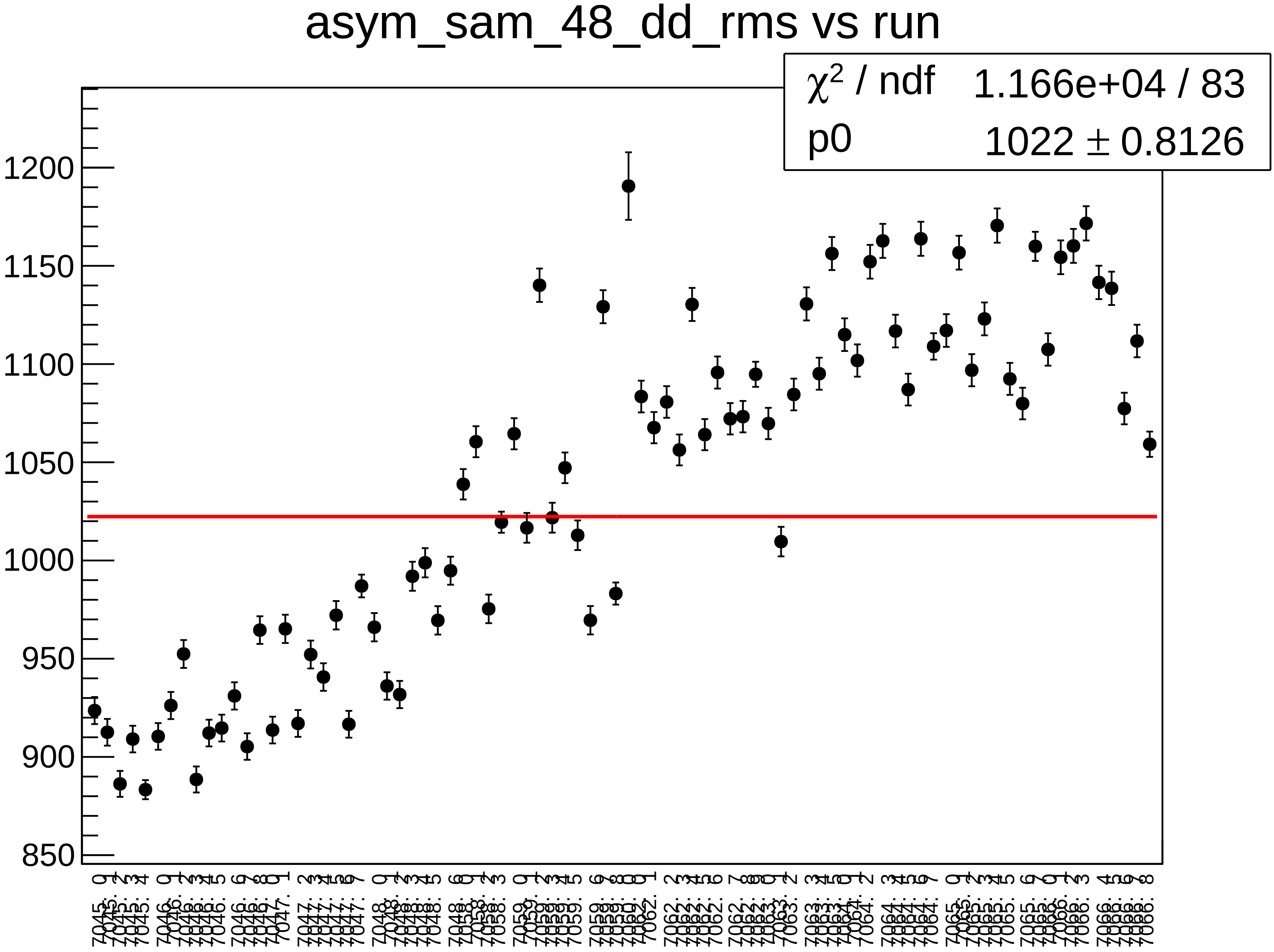

asym_sam_48_dd_correction_mean vs run
χ2 / ndf 81.97 / 83
p0 −2009 ± 1140
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 378.7
Std Dev 338.6
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01873
Std Dev 0.9877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



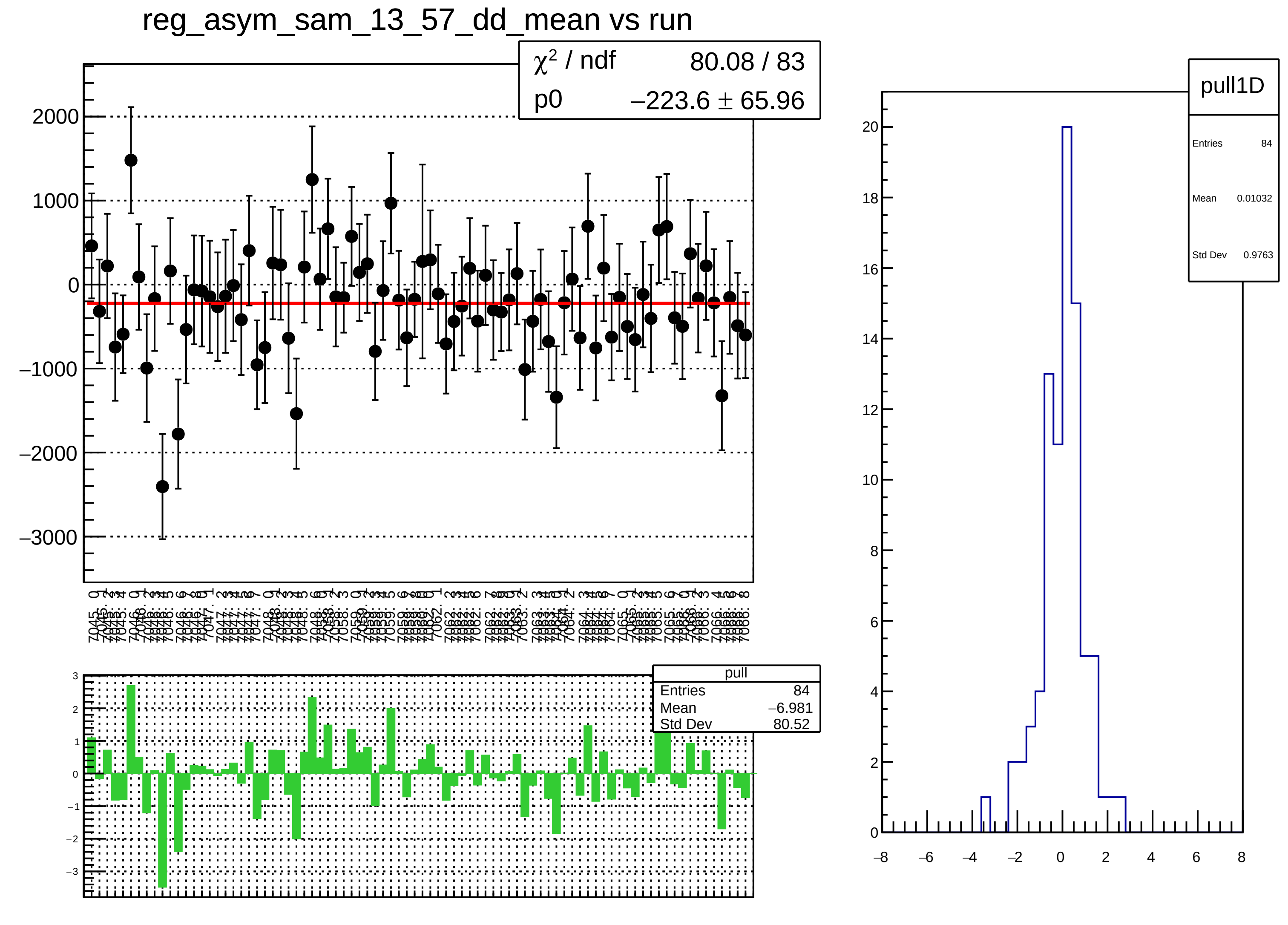
asym_sam_48_dd_correction_rms vs run
$\chi^2$ / ndf 1.189e+04 / 83
p0 1014 ± 0.8058



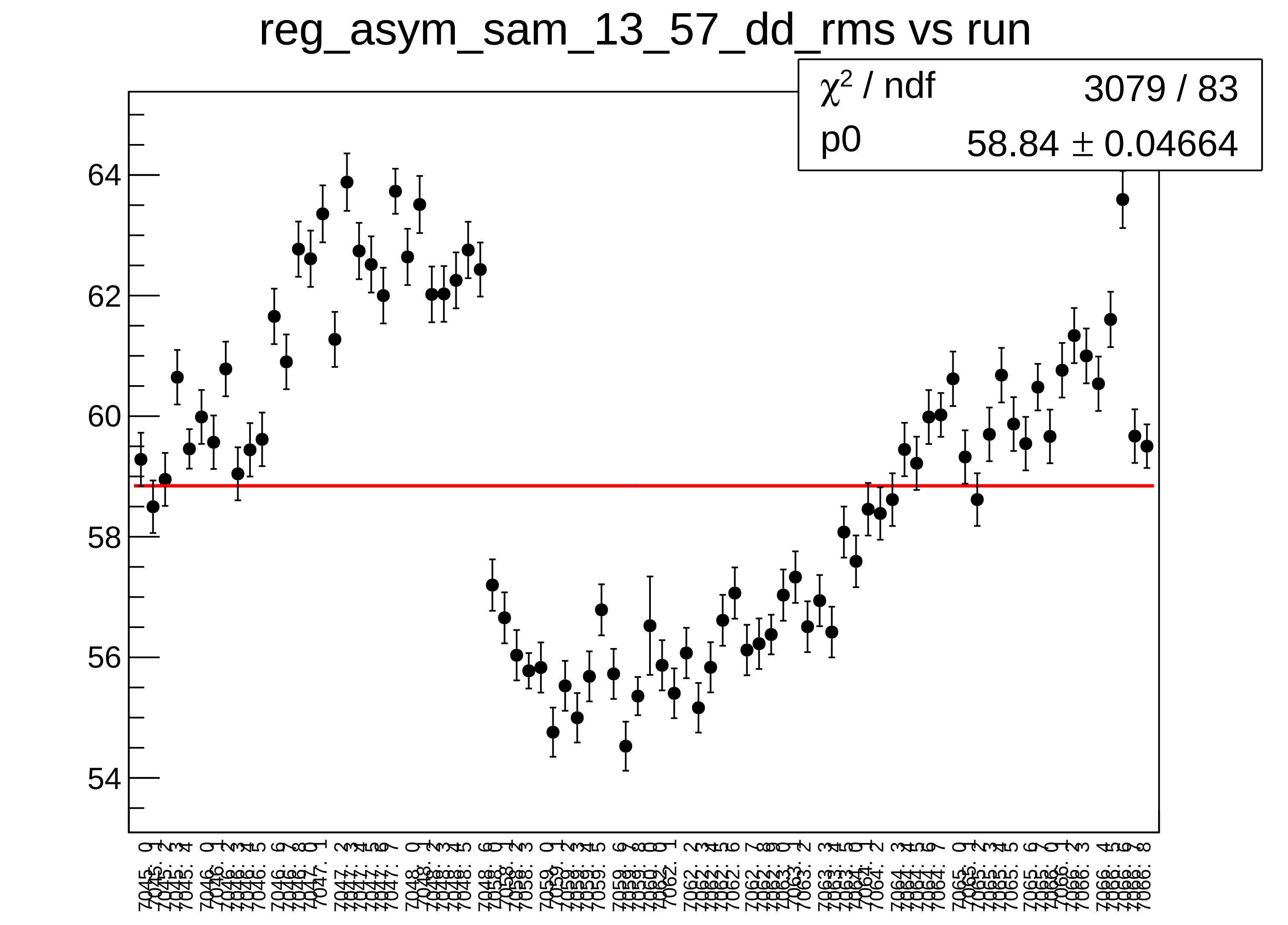
asym_sam_48_dd_mean vs run
$\chi^2$ / ndf 79.86 / 83
p0 2449 ± 1149
pull
Entries 84
Mean 422.6
Std Dev 382.2
pull1D
Entries 84
Mean 0.01642
Std Dev 0.9749



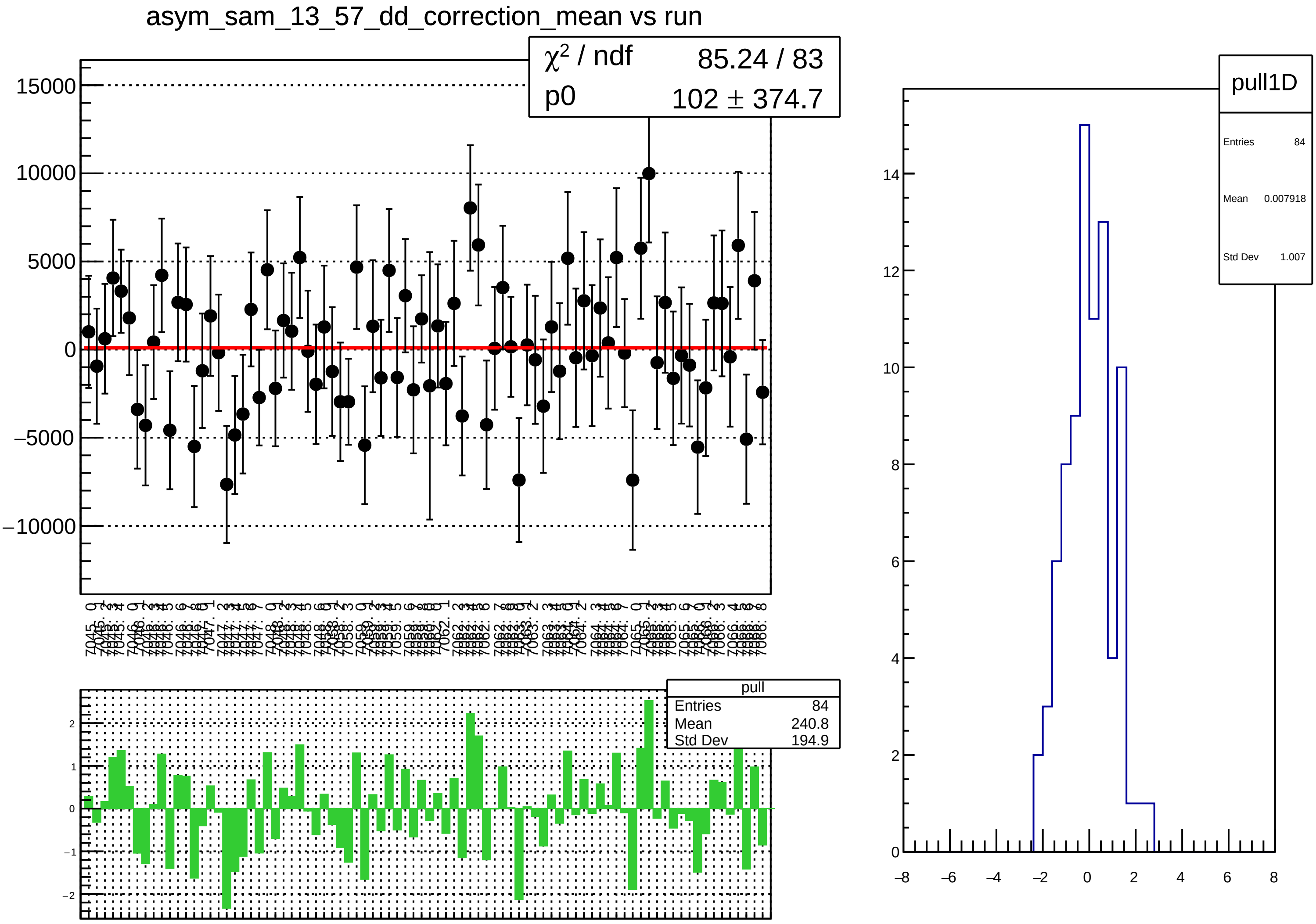
asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 1.166e+04 / 83
p0 1022 ± 0.8126
1200
1150
1100
1050
1000
950
900
850

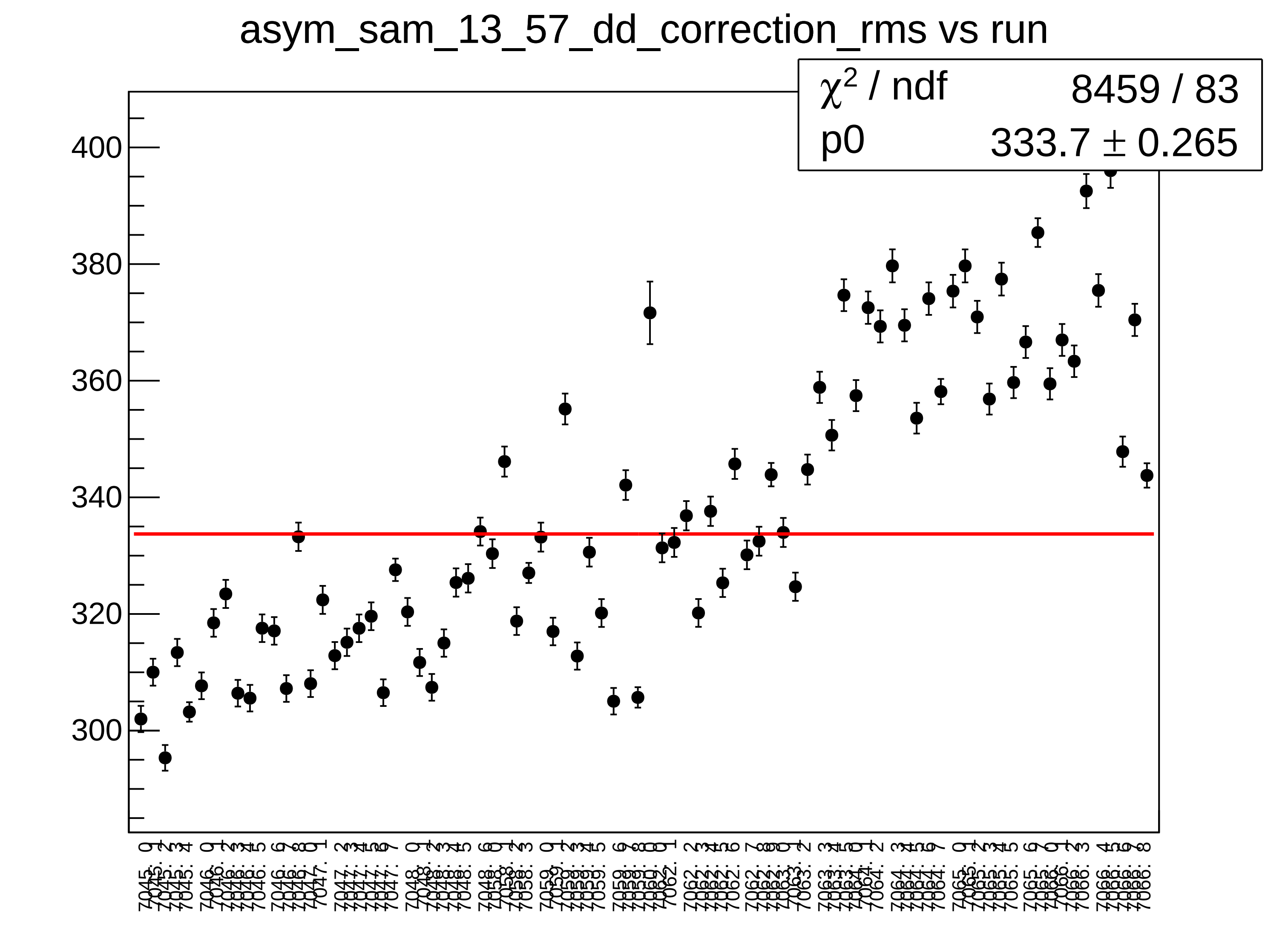


reg_asym_sam_13_57_dd_mean vs run
$\chi^2$ / ndf 80.08 / 83
p0 −223.6 ± 65.96
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −6.981
Std Dev 80.52
pull1D
Entries 84
Mean 0.01032
Std Dev 0.9763

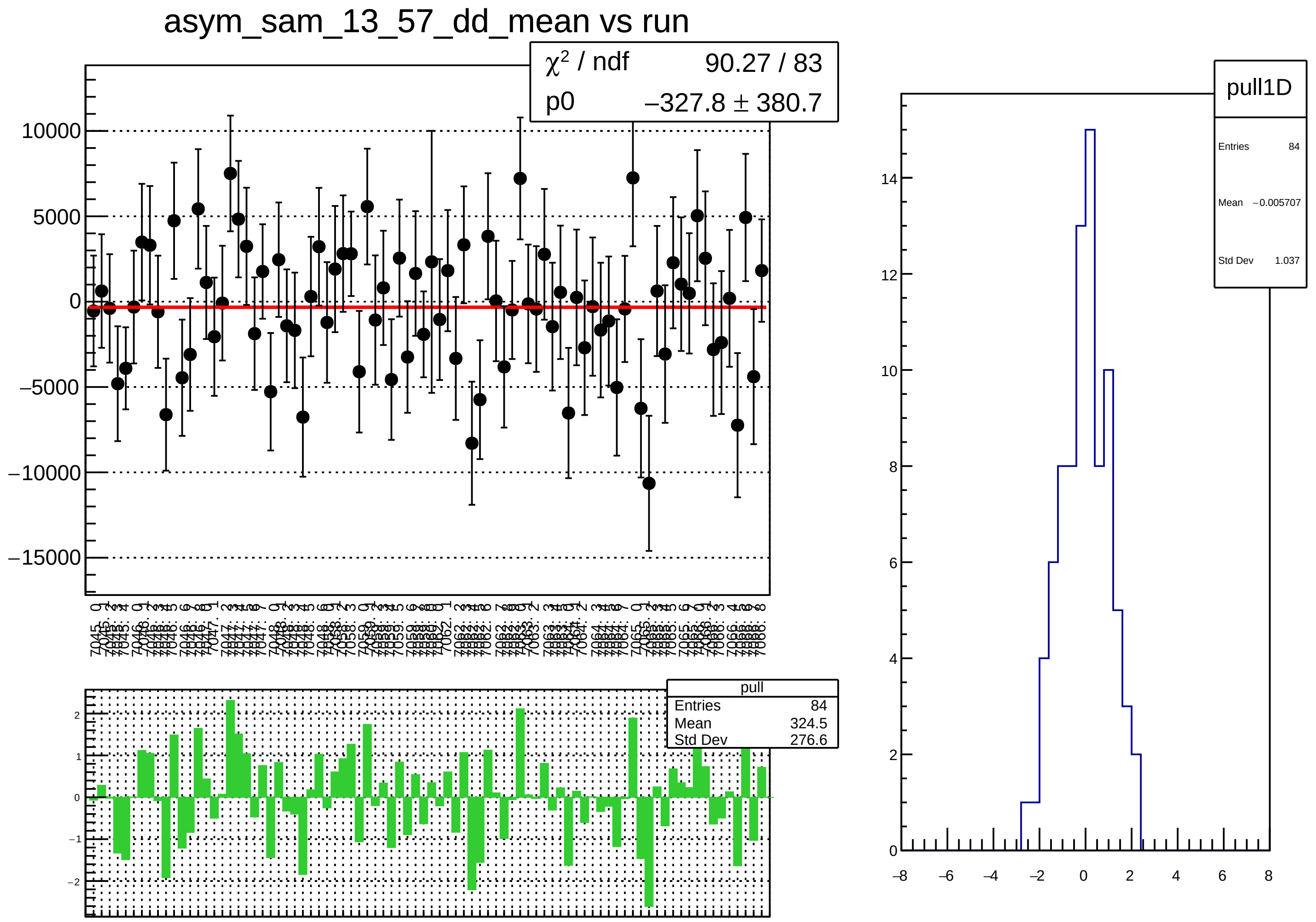


reg_asym_sam_13_57_dd_rms vs run
$\chi^2$ / ndf 3079 / 83
p0 58.84 ± 0.04664
64
62
60
58
56
54

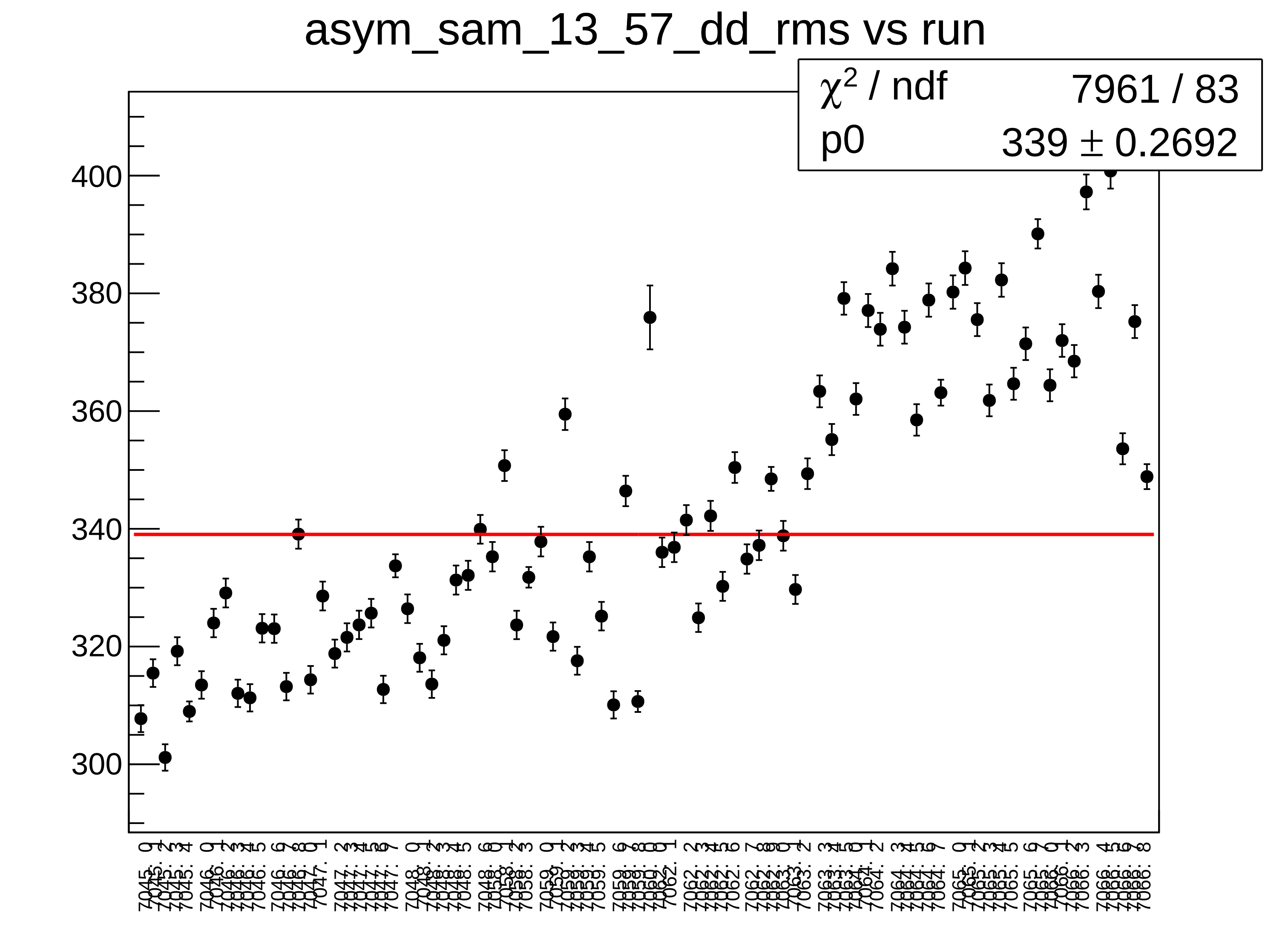

asym_sam_13_57_dd_correction_mean vs run
χ2 / ndf 85.24 / 83
p0 102 ± 374.7
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 240.8
Std Dev 194.9
pull1D
Entries 84
Mean 0.007918
Std Dev 1.007

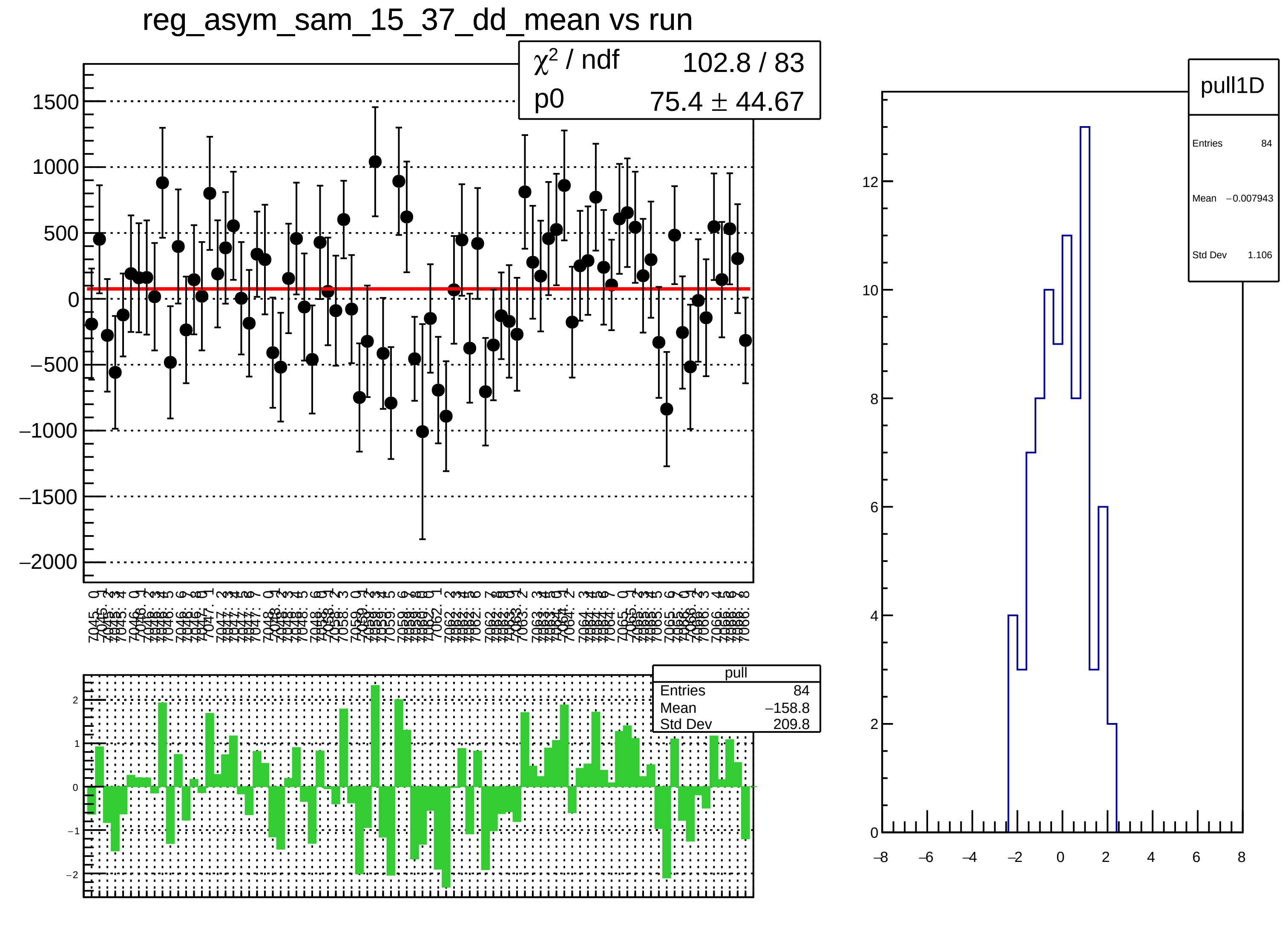


asym_sam_13_57_dd_correction_rms vs run
χ2 / ndf 8459 / 83
p0 333.7 ± 0.265
400
380
360
340
320
300

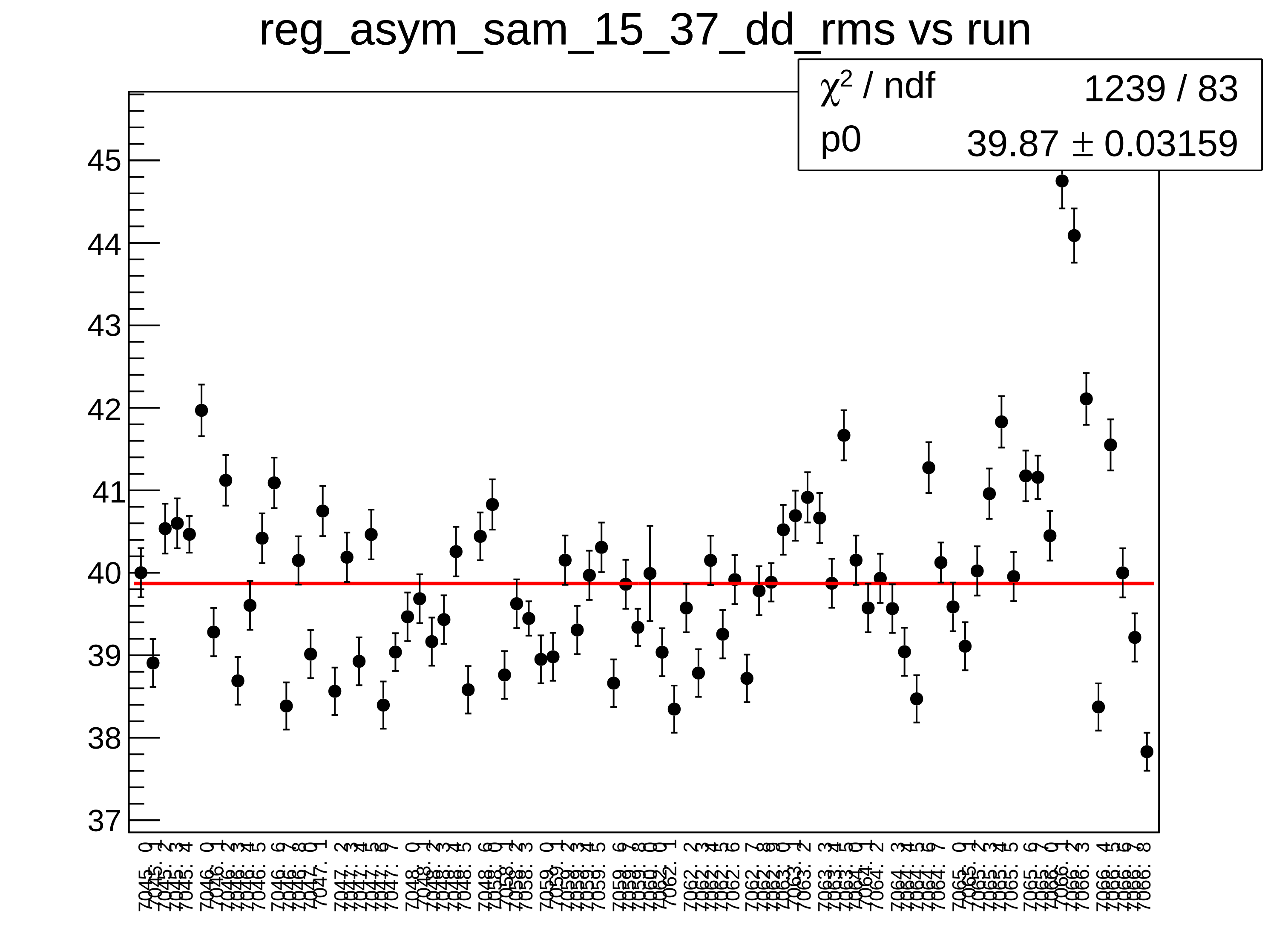


asym_sam_13_57_dd_mean vs run
χ² / ndf 90.27 / 83
p0 −327.8 ± 380.7
pull
Entries 84
Mean 324.5
Std Dev 276.6
pull1D
Entries 84
Mean −0.005707
Std Dev 1.037

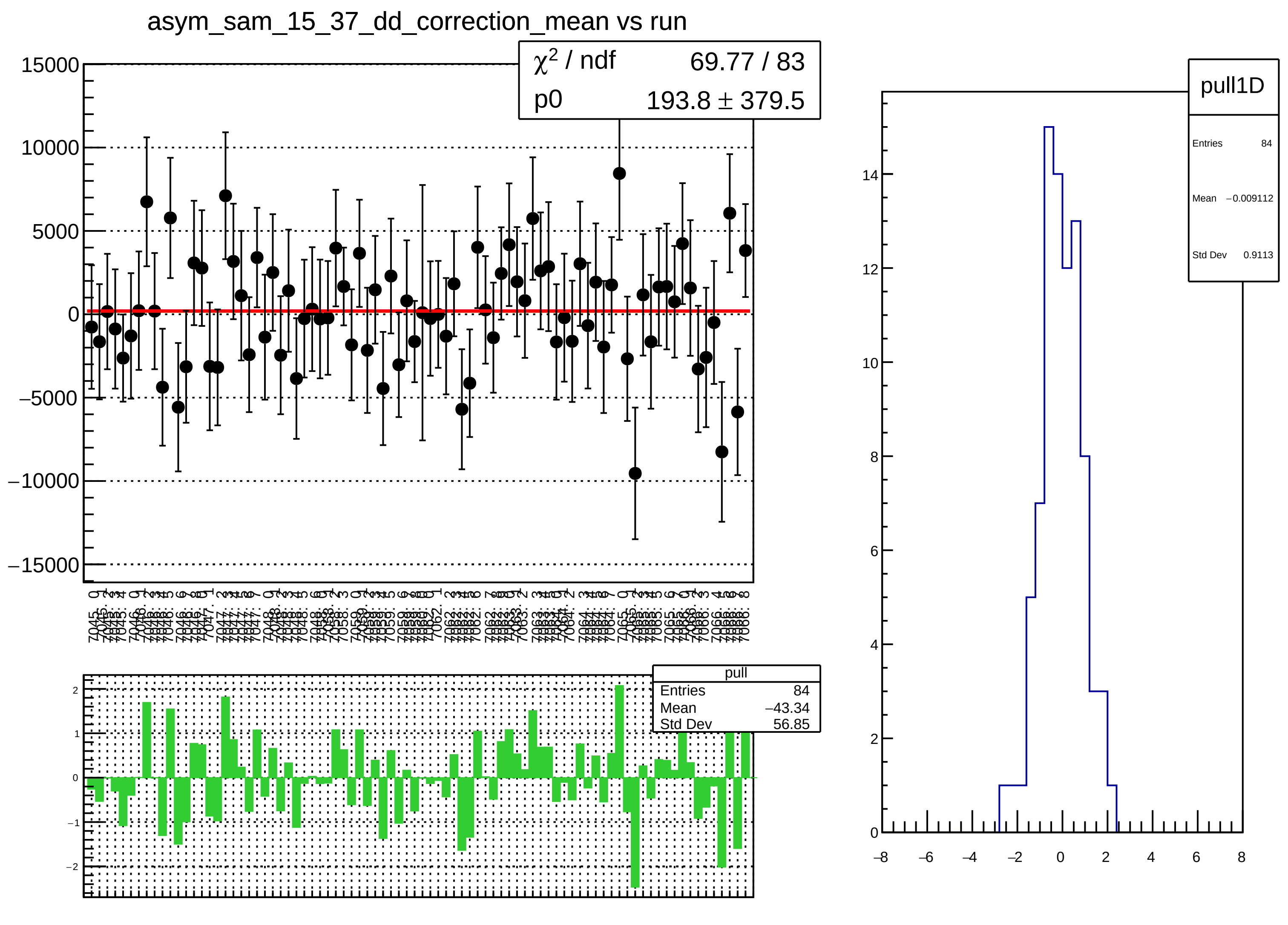

asym_sam_13_57_dd_rms vs run
χ2 / ndf 7961 / 83
p0 339 ± 0.2692
400
380
360
340
320
300



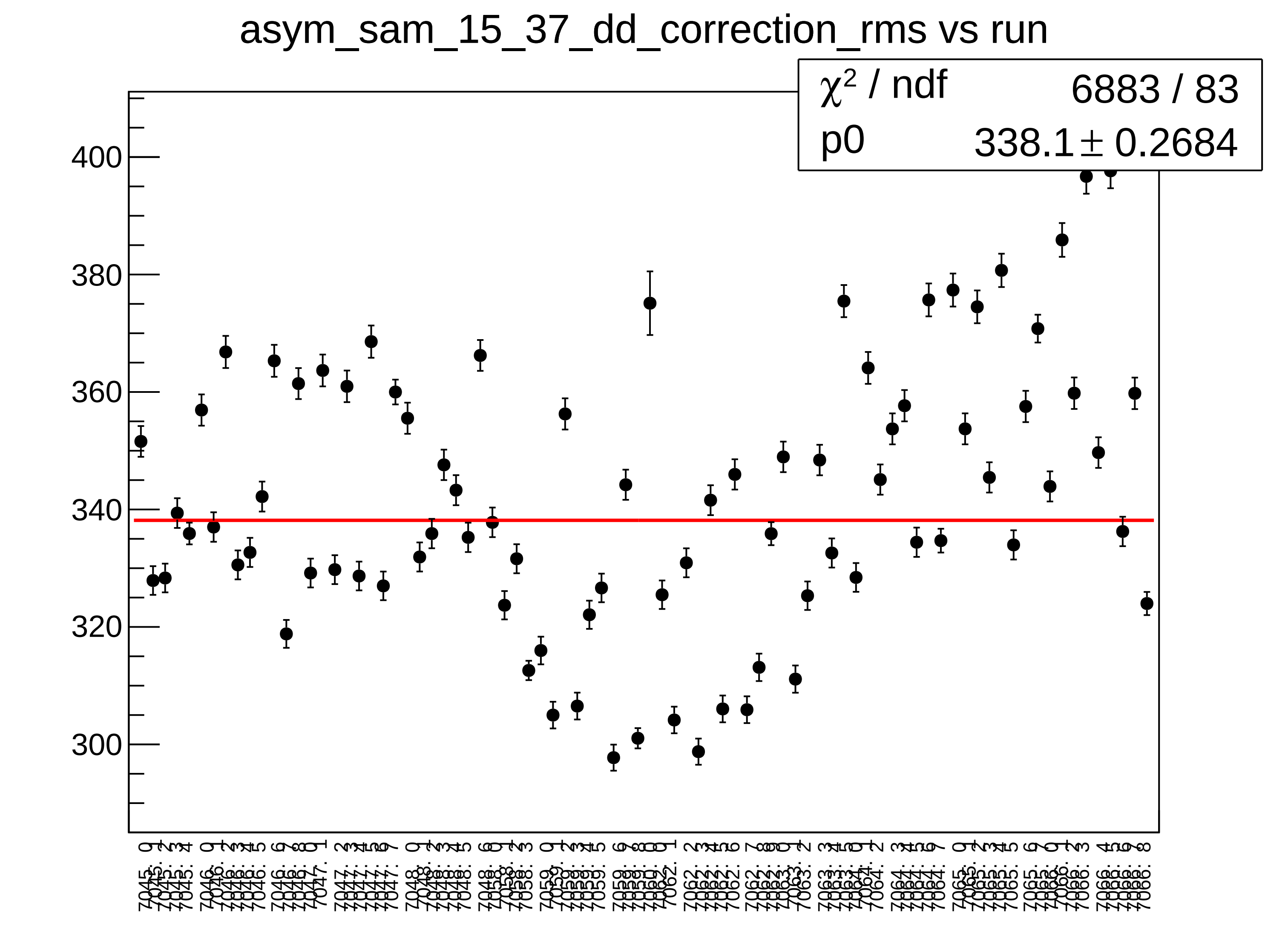
reg_asym_sam_15_37_dd_mean vs run
$\chi^2$ / ndf 102.8 / 83
p0 75.4 ± 44.67
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 84
Mean −158.8
Std Dev 209.8
pull1D
Entries 84
Mean −0.007943
Std Dev 1.106

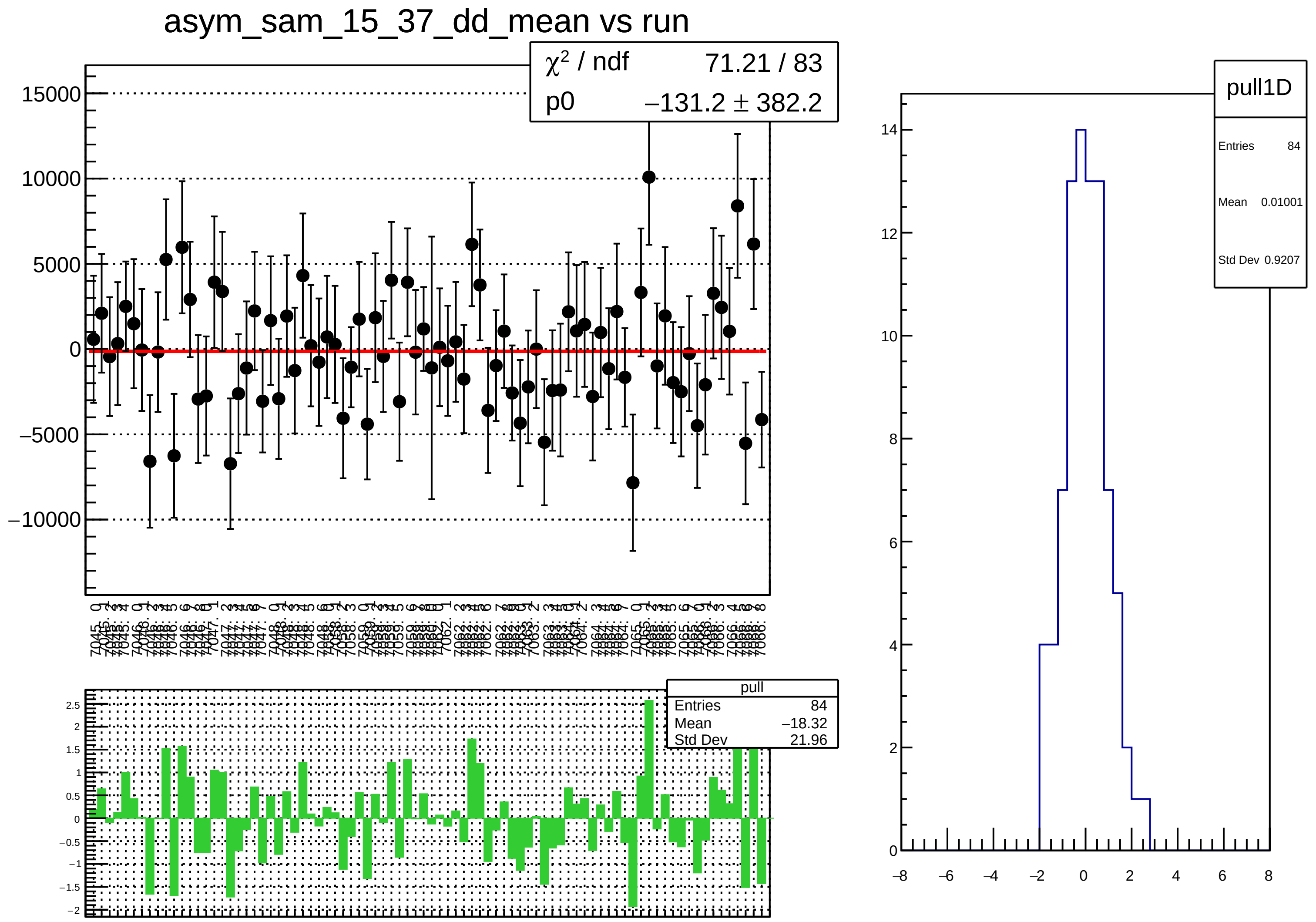


reg_asym_sam_15_37_dd_rms vs run
$\chi^2$ / ndf 1239 / 83
p0 39.87 ± 0.03159
45
44
43
42
41
40
39
38
37

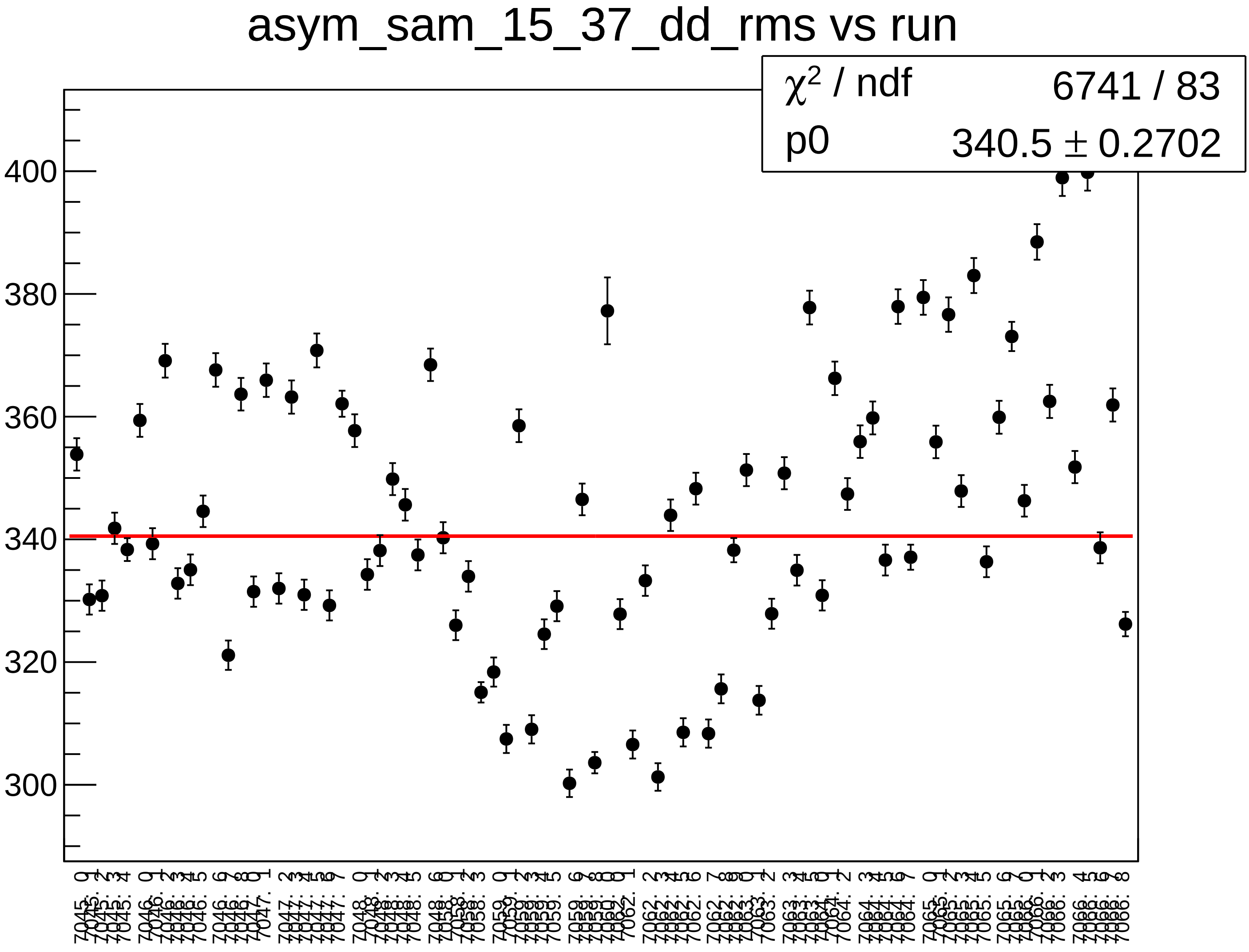


asym_sam_15_37_dd_correction_mean vs run
$\chi^2$ / ndf 69.77 / 83
p0 193.8 ± 379.5
pull
Entries 84
Mean −43.34
Std Dev 56.85
pull1D
Entries 84
Mean −0.009112
Std Dev 0.9113


asym_sam_15_37_dd_correction_rms vs run
$\chi^2$ / ndf 6883 / 83
p0 338.1 ± 0.2684
400
380
360
340
320
300

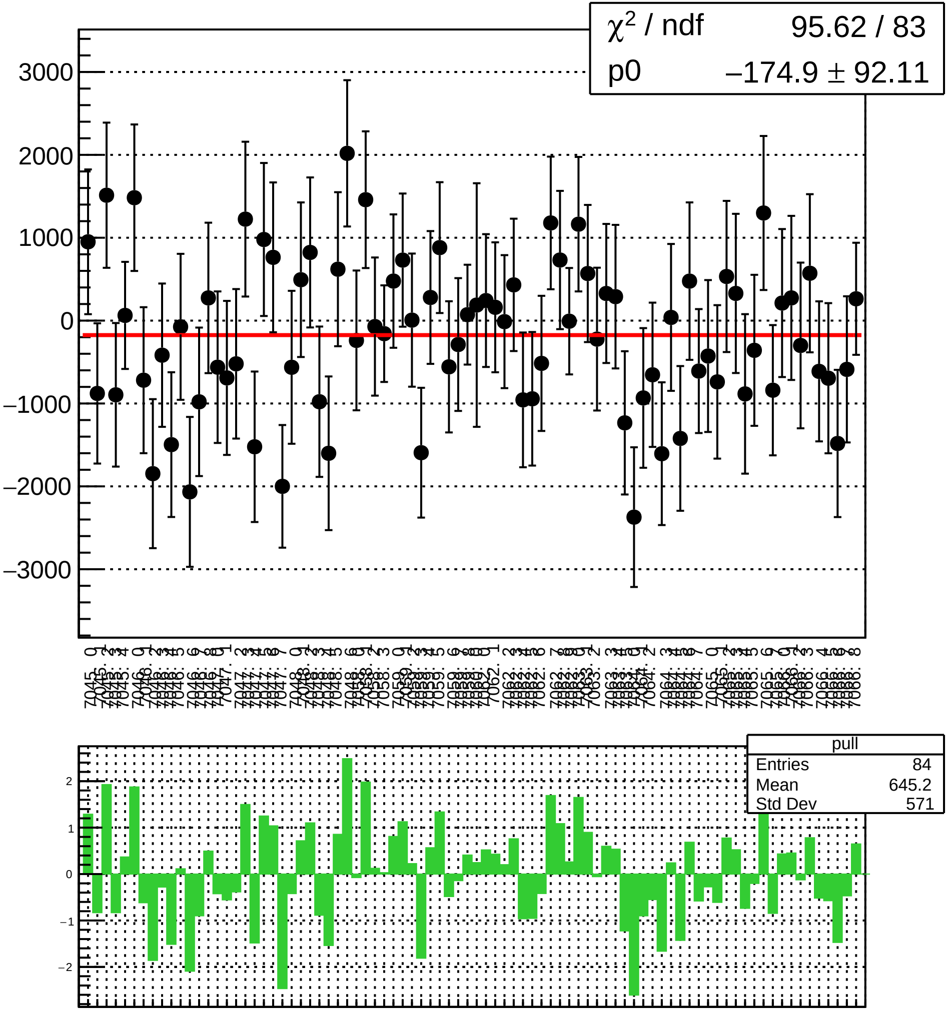


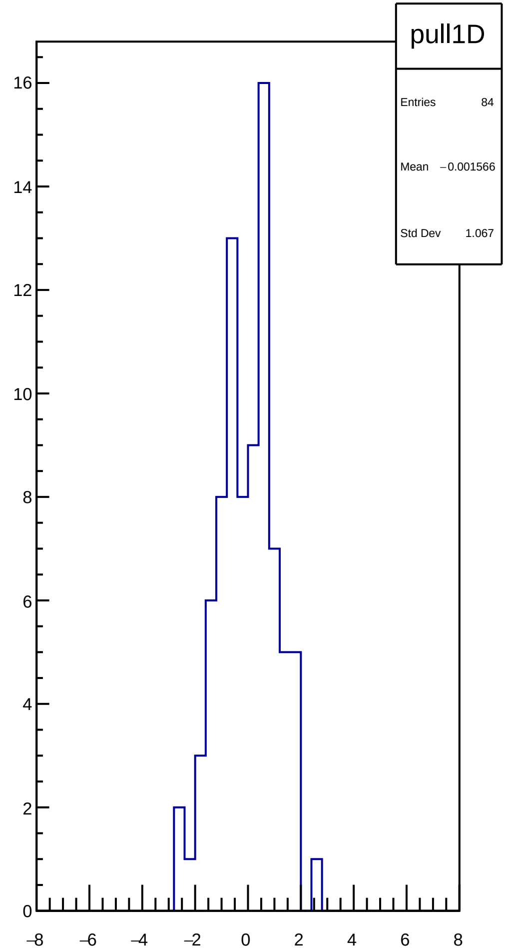
asym_sam_15_37_dd_mean vs run
χ2 / ndf 71.21 / 83
p0 −131.2 ± 382.2
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −18.32
Std Dev 21.96
pull1D
Entries 84
Mean 0.01001
Std Dev 0.9207

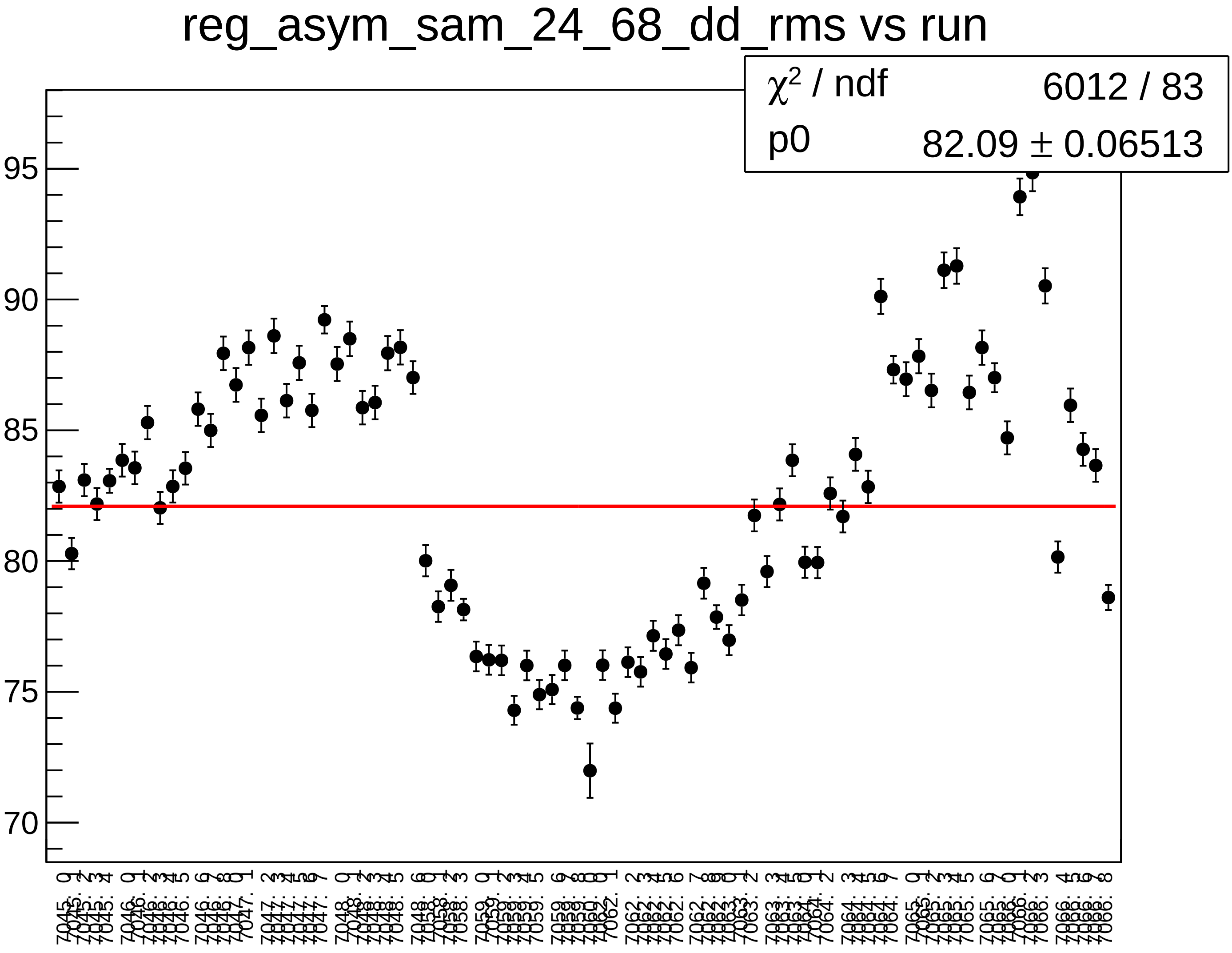


asym_sam_15_37_dd_rms vs run
$\chi^2$ / ndf 6741 / 83
p0 340.5 ± 0.2702
400
380
360
340
320
300

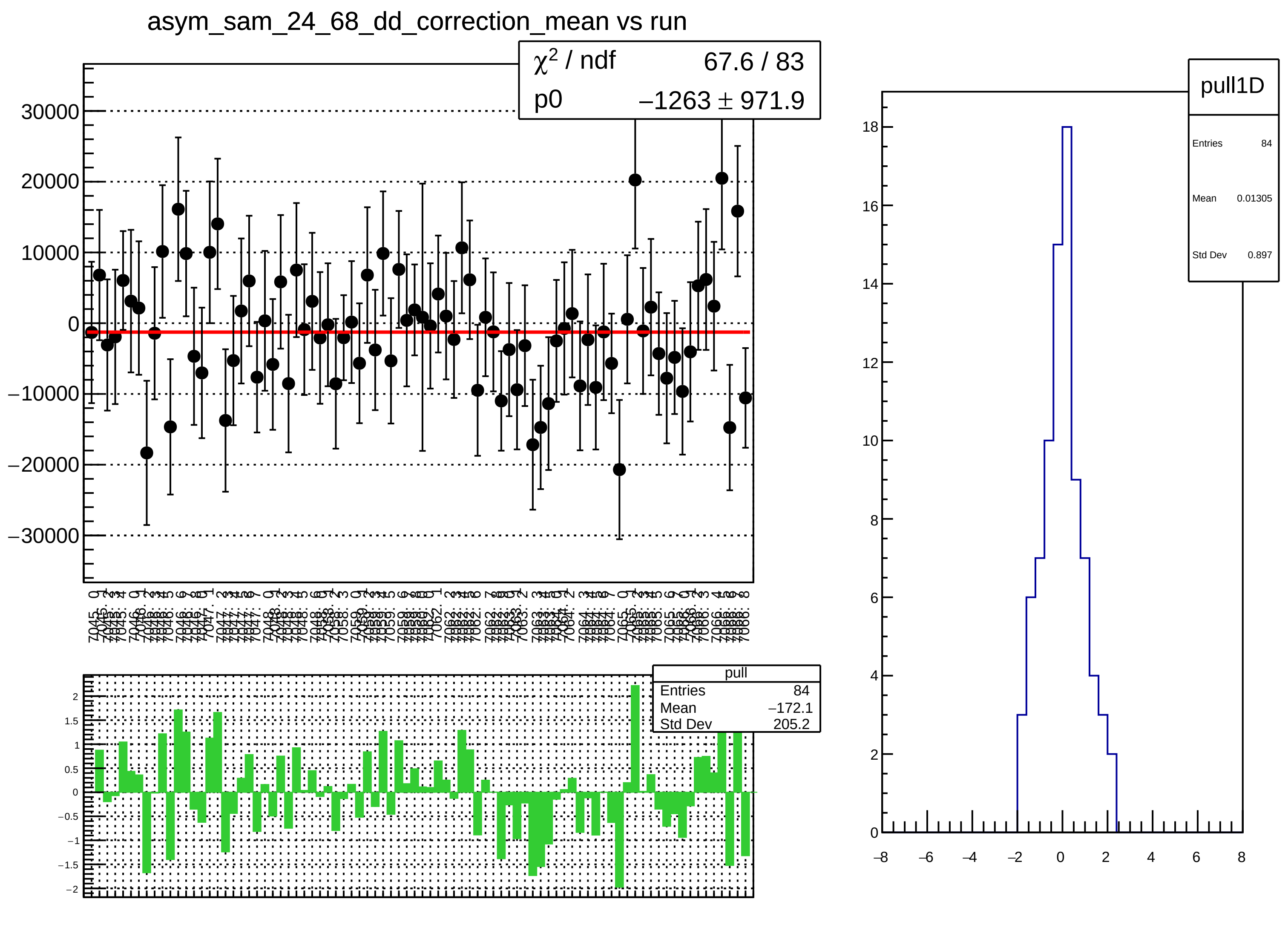
reg_asym_sam_24_68_dd_mean vs run



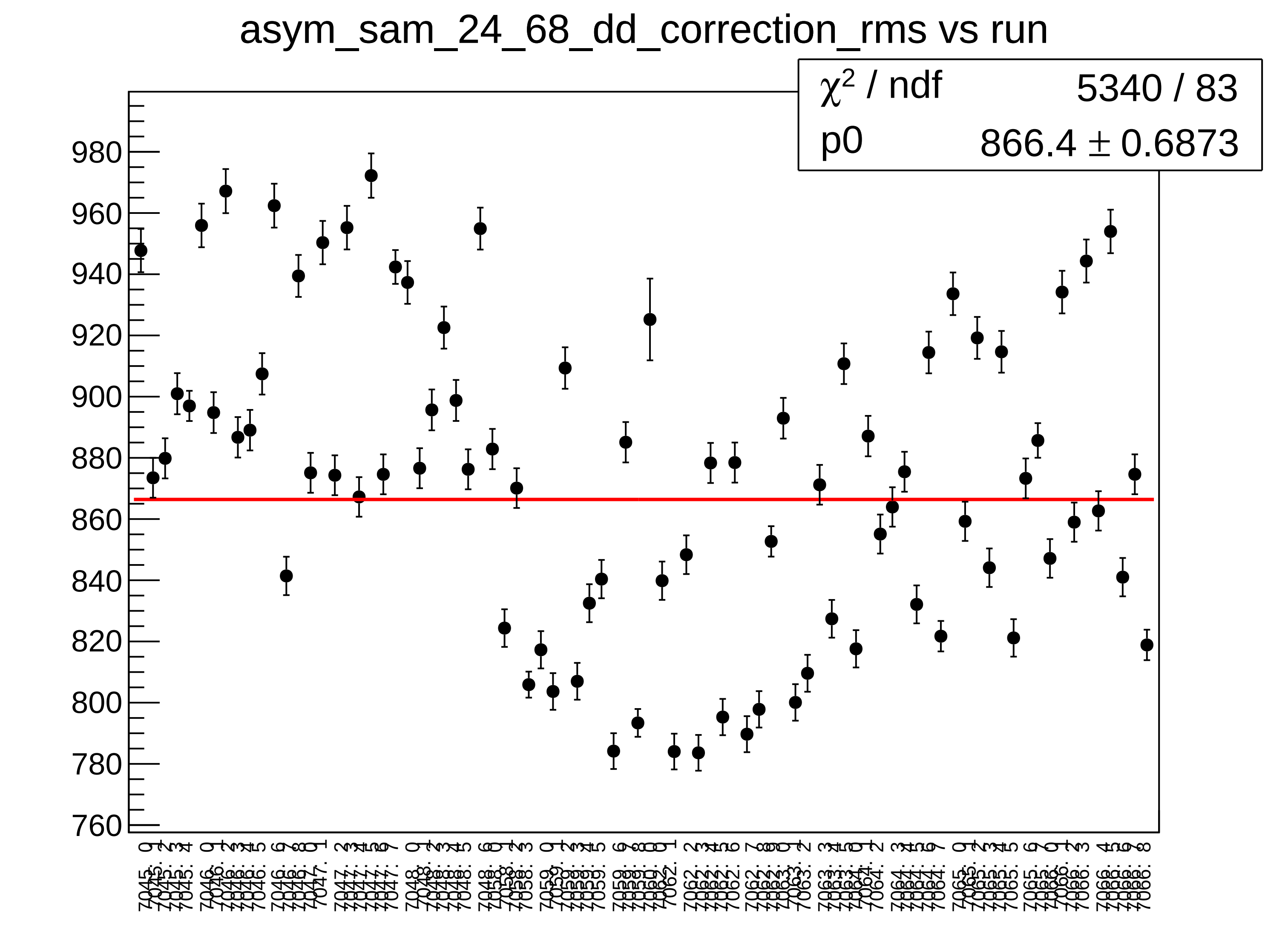



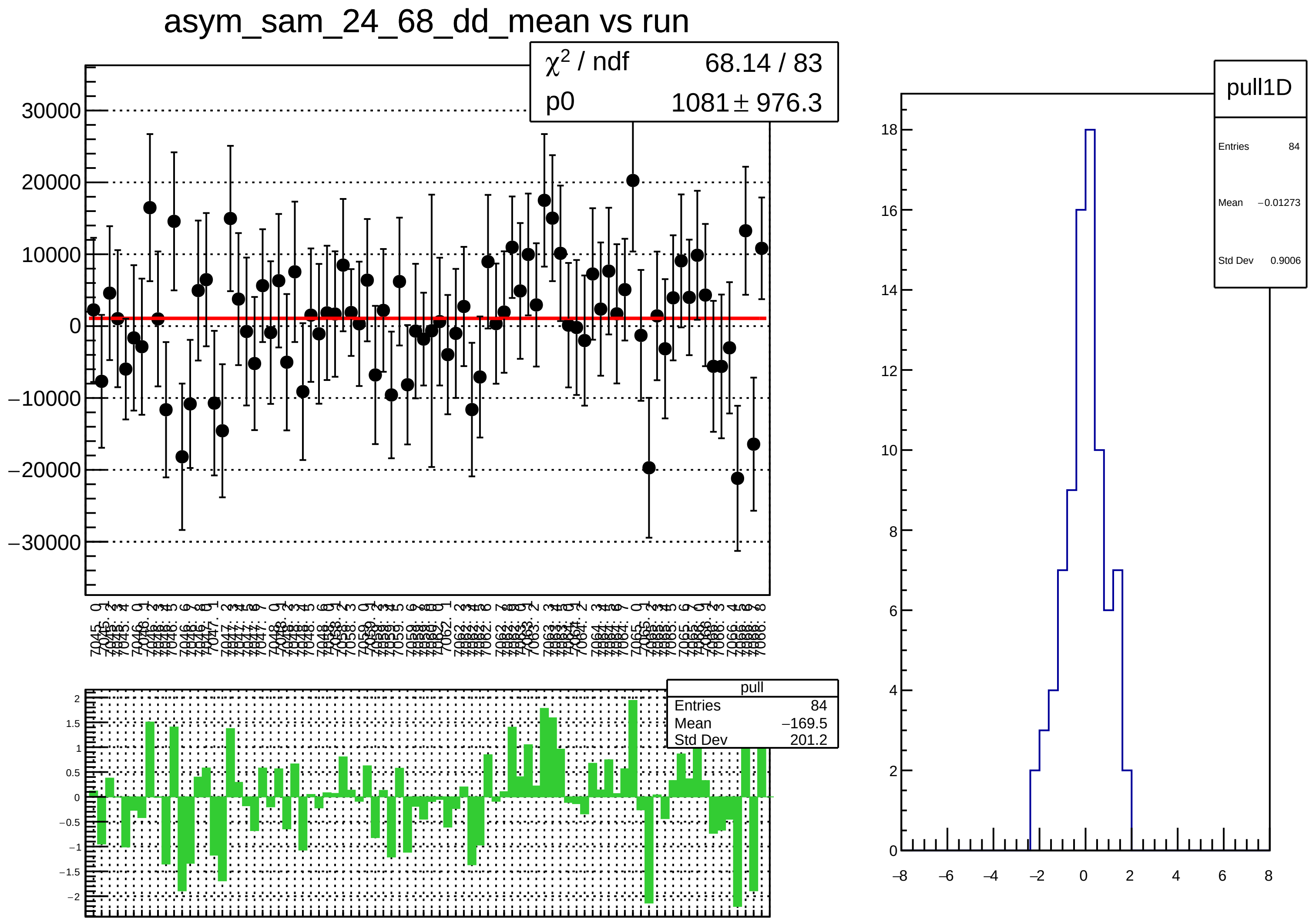


reg_asym_sam_24_68_dd_rms vs run
$\chi^2$ / ndf 6012 / 83
p0 82.09 ± 0.06513
95
90
85
80
75
70

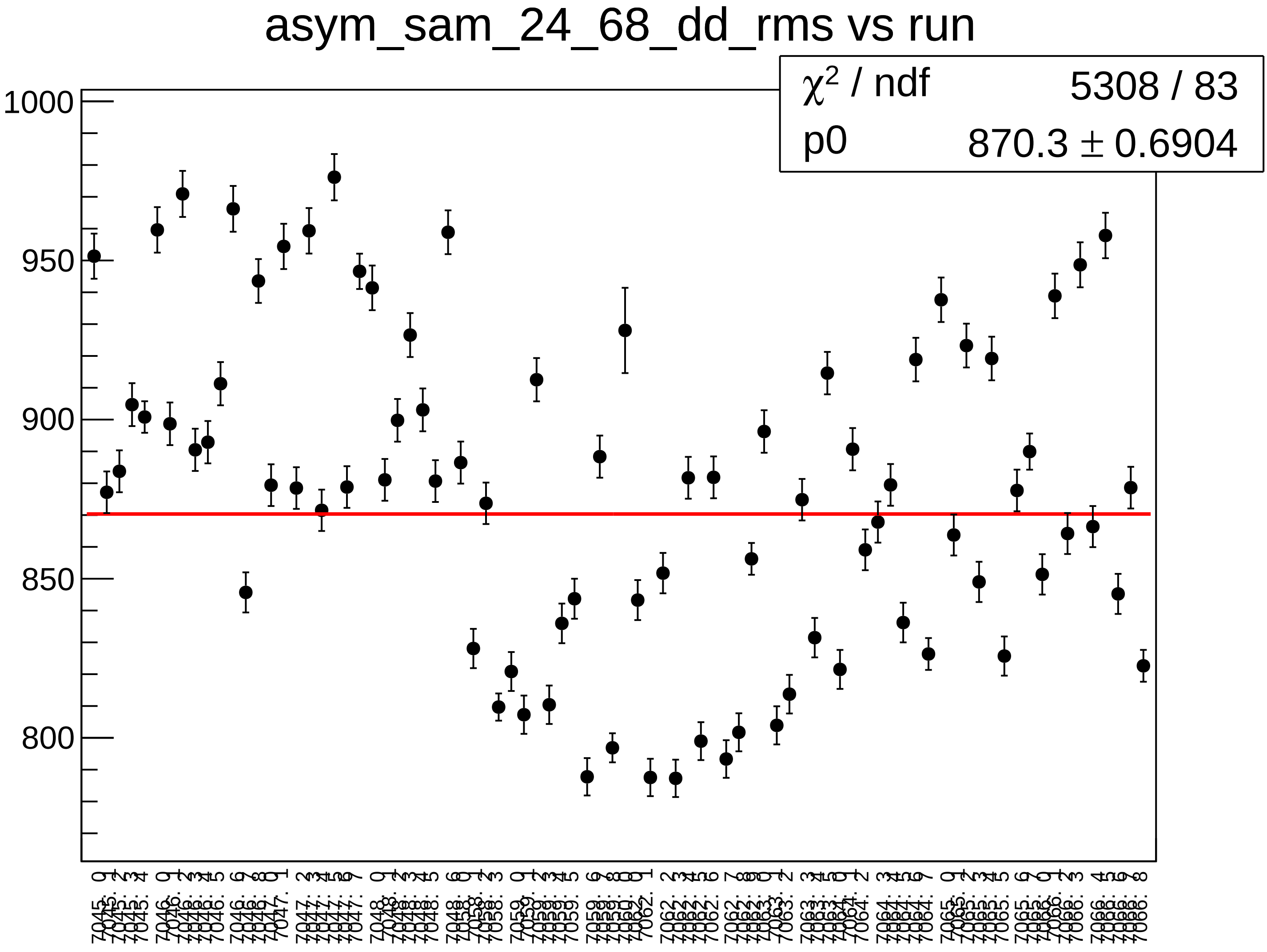


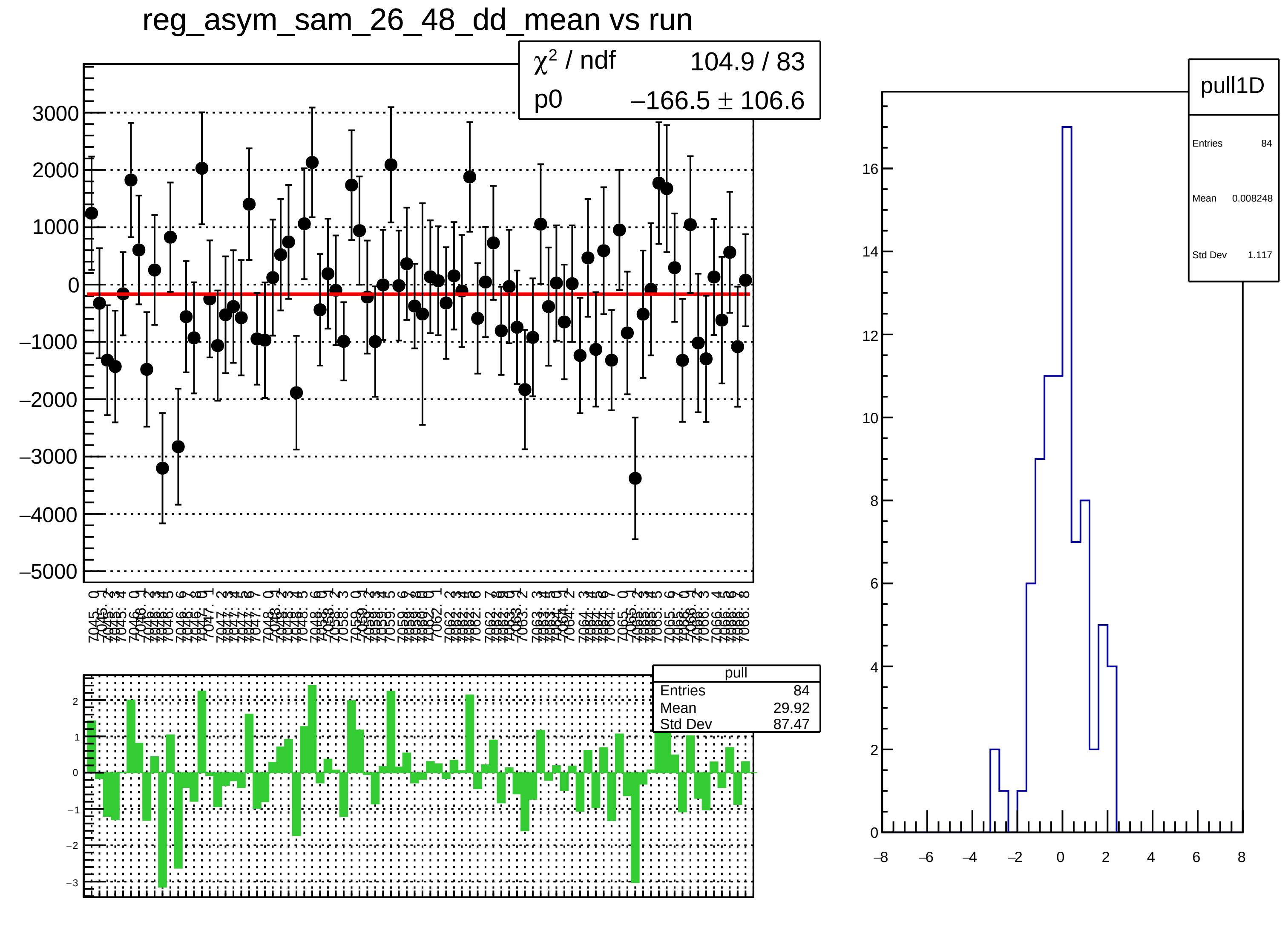
asym_sam_24_68_dd_correction_mean vs run
$\chi^2$ / ndf 67.6 / 83
p0 −1263 ± 971.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −172.1
Std Dev 205.2
pull1D
Entries 84
Mean 0.01305
Std Dev 0.897


asym_sam_24_68_dd_correction_rms vs run
$\chi^2$ / ndf 5340 / 83
p0 866.4 ± 0.6873
980
960
940
920
900
880
860
840
820
800
780
760

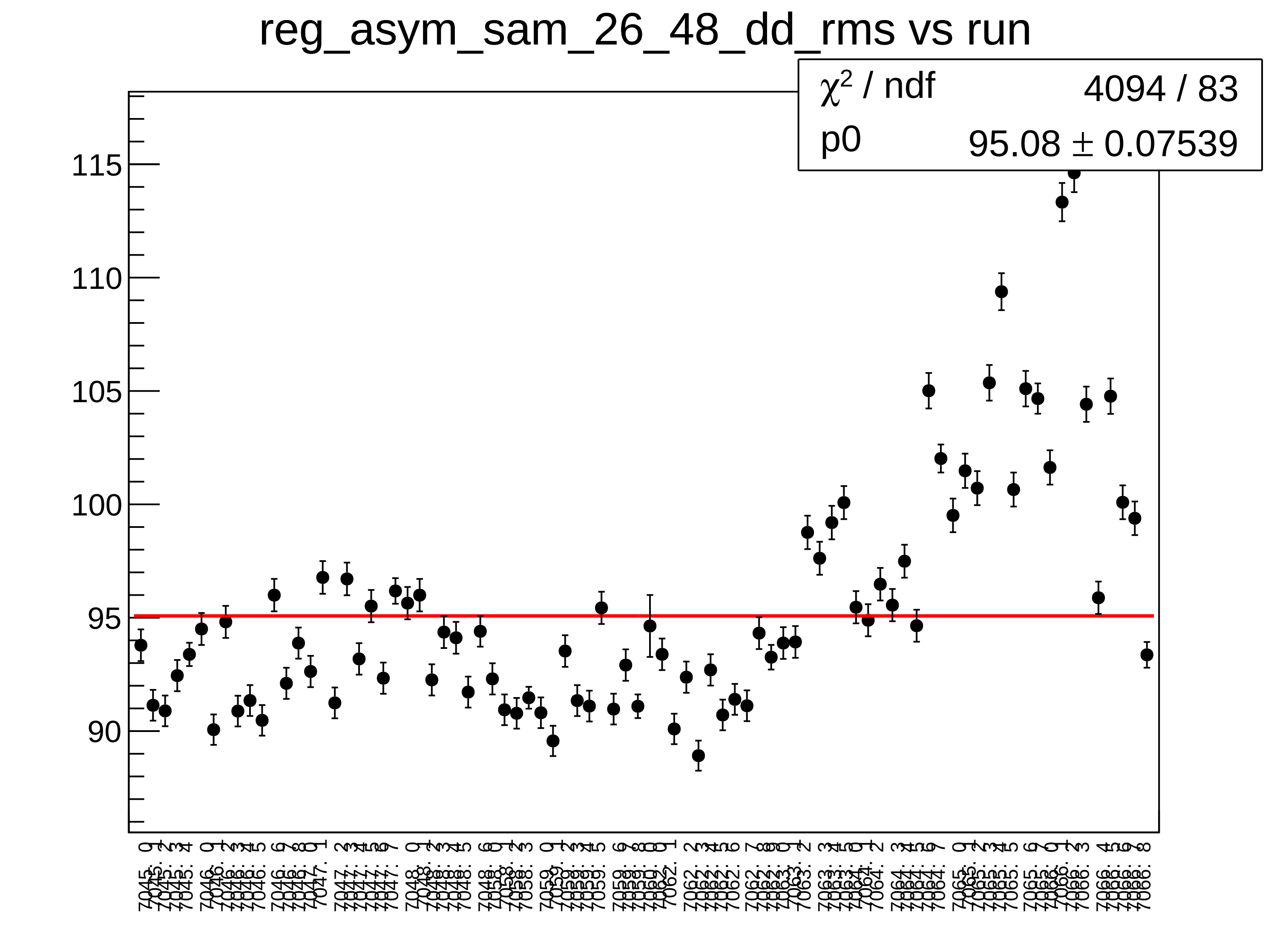


asym_sam_24_68_dd_mean vs run
$\chi^2$ / ndf 68.14 / 83
p0 1081 ± 976.3
pull
Entries 84
Mean −169.5
Std Dev 201.2
pull1D
Entries 84
Mean −0.01273
Std Dev 0.9006

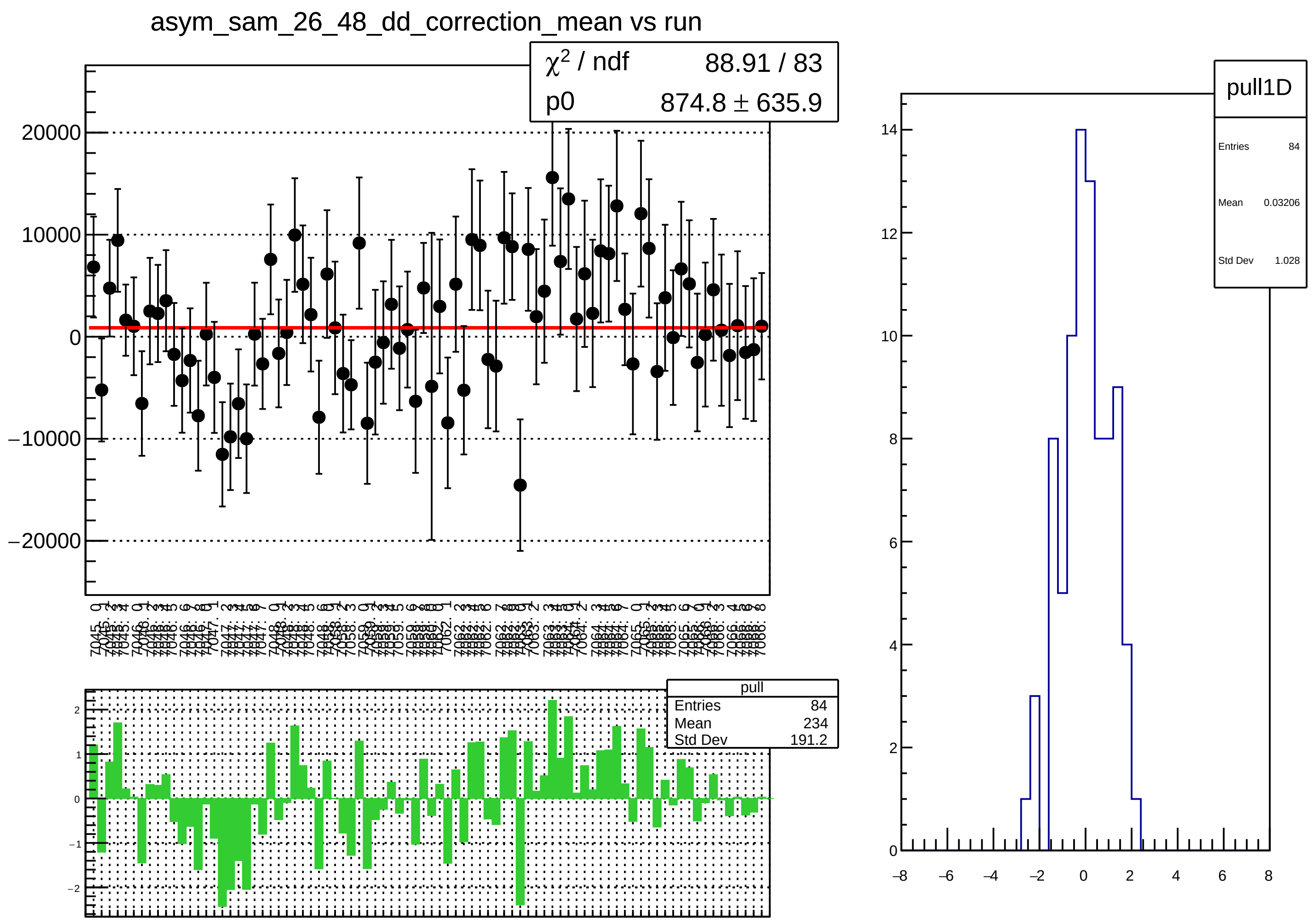

asym_sam_24_68_dd_rms vs run
χ2 / ndf 5308 / 83
p0 870.3 ± 0.6904
1000
950
900
850
800

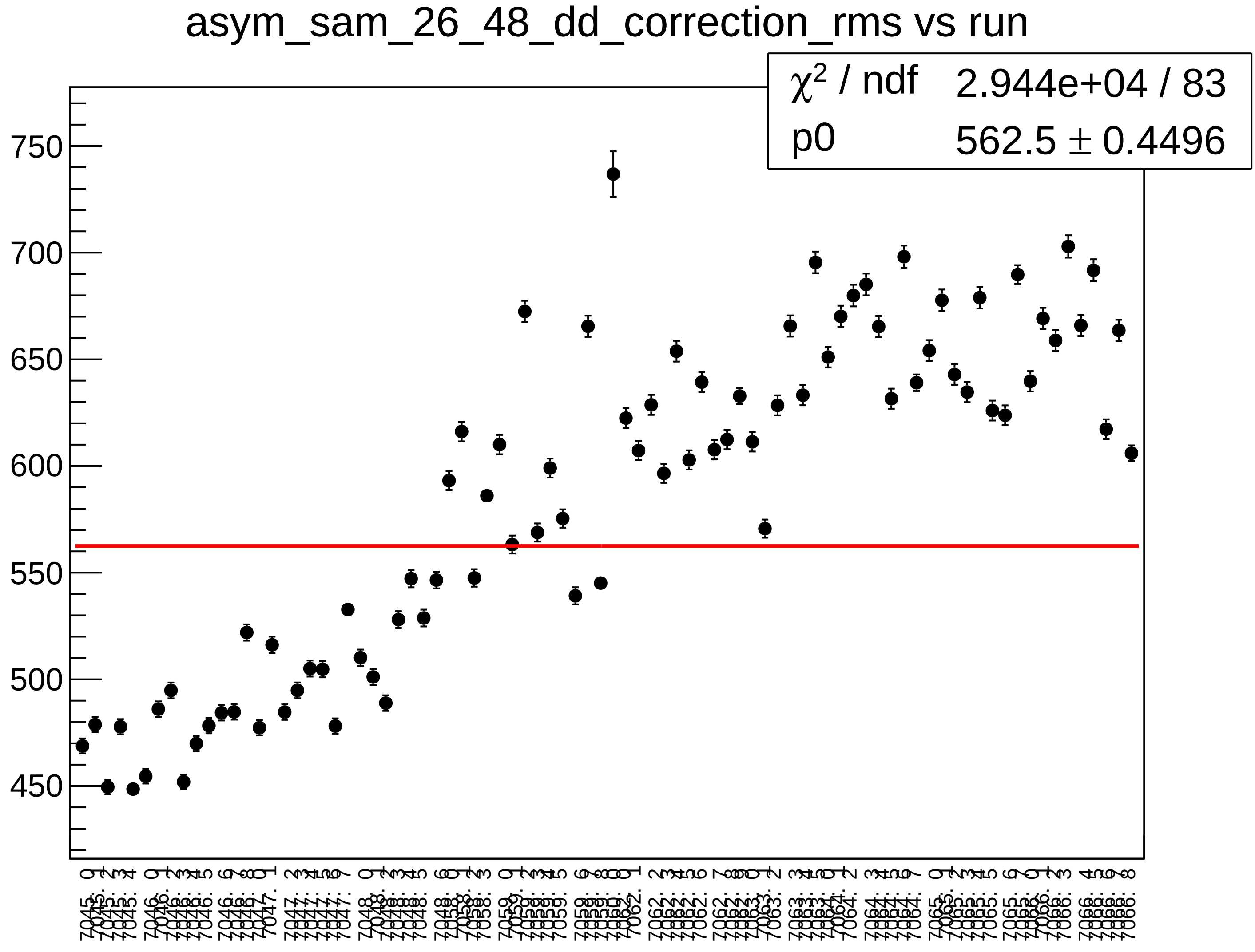


reg_asym_sam_26_48_dd_mean vs run
$\chi^2$ / ndf 104.9 / 83
p0 −166.5 ± 106.6
pull
Entries 84
Mean 29.92
Std Dev 87.47
pull1D
Entries 84
Mean 0.008248
Std Dev 1.117

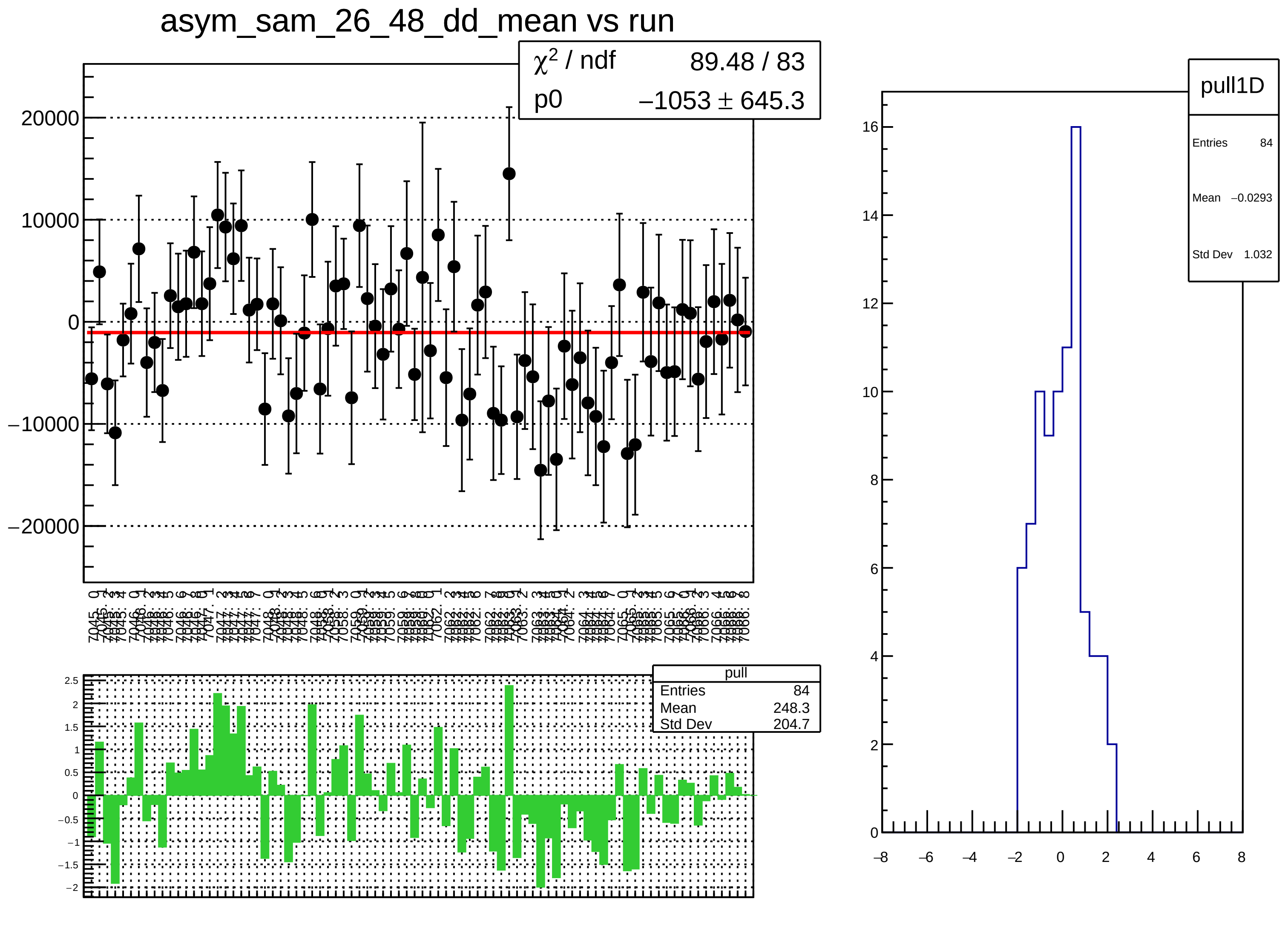


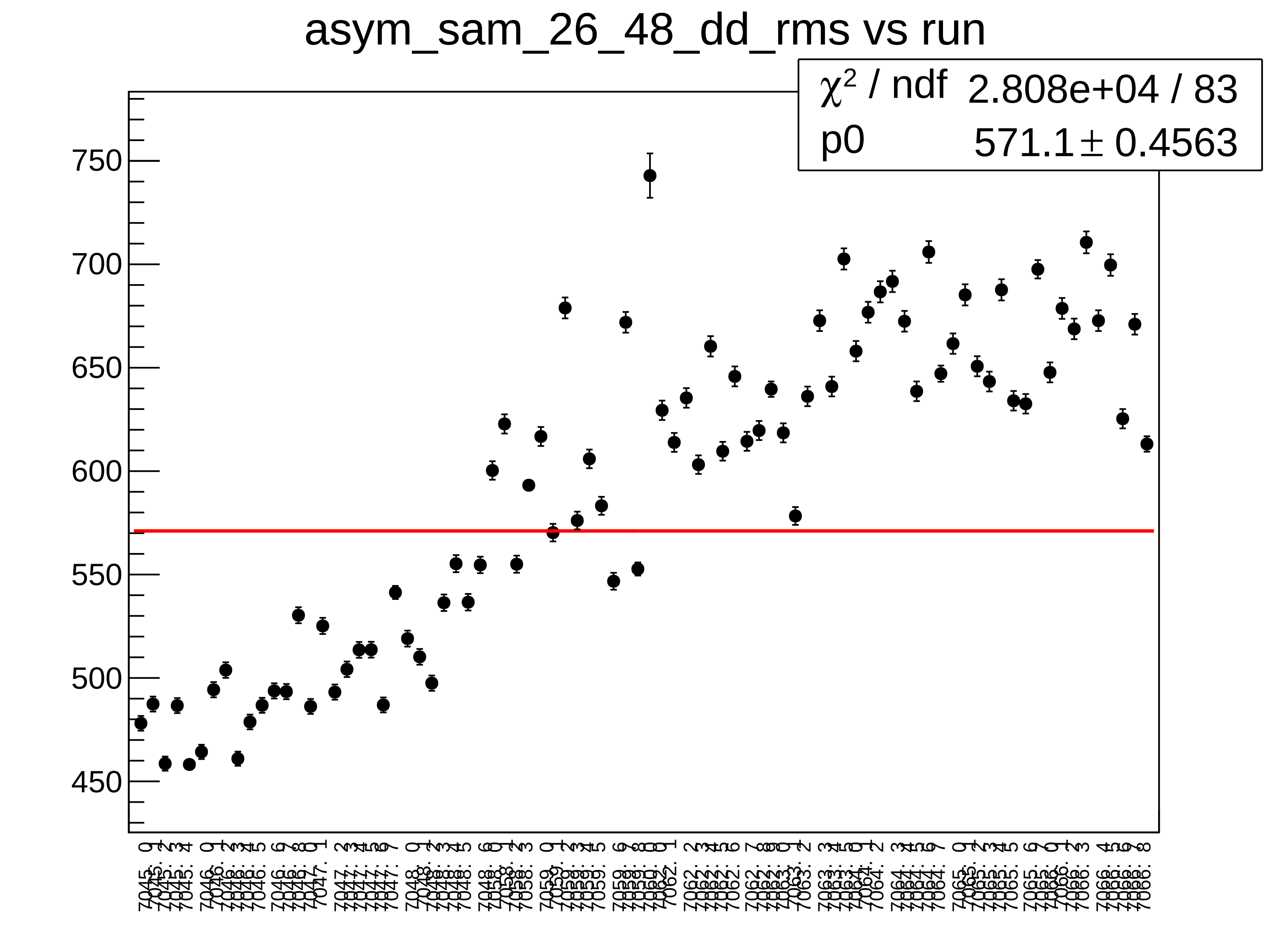
reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 4094 / 83
p0 95.08 ± 0.07539
115
110
105
100
95
90

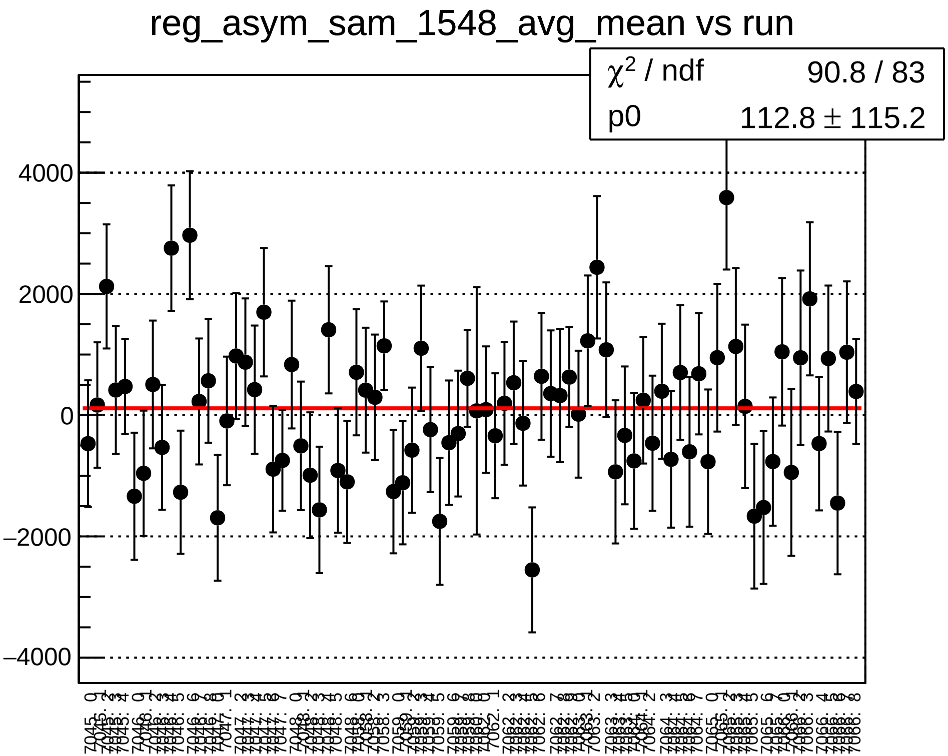

asym_sam_26_48_dd_correction_mean vs run
$\chi^2$ / ndf 88.91 / 83
p0 874.8 ± 635.9
pull
Entries 84
Mean 234
Std Dev 191.2
pull1D
Entries 84
Mean 0.03206
Std Dev 1.028



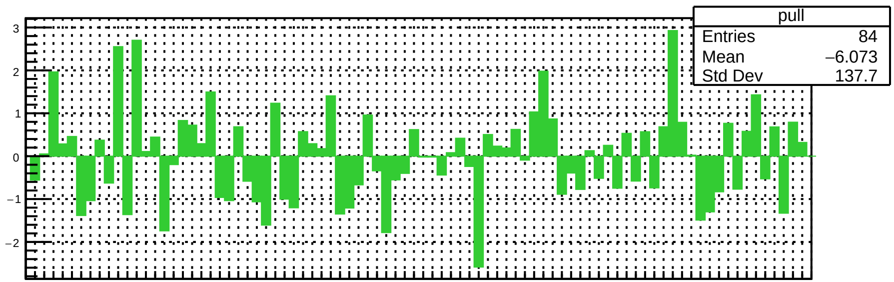
asym_sam_26_48_dd_correction_rms vs run
$\chi^2$ / ndf 2.944e+04 / 83
p0 562.5 ± 0.4496
750
700
650
600
550
500
450


asym_sam_26_48_dd_mean vs run
χ2 / ndf 89.48 / 83
p0 −1053 ± 645.3
pull
Entries 84
Mean 248.3
Std Dev 204.7
pull1D
Entries 84
Mean −0.0293
Std Dev 1.032

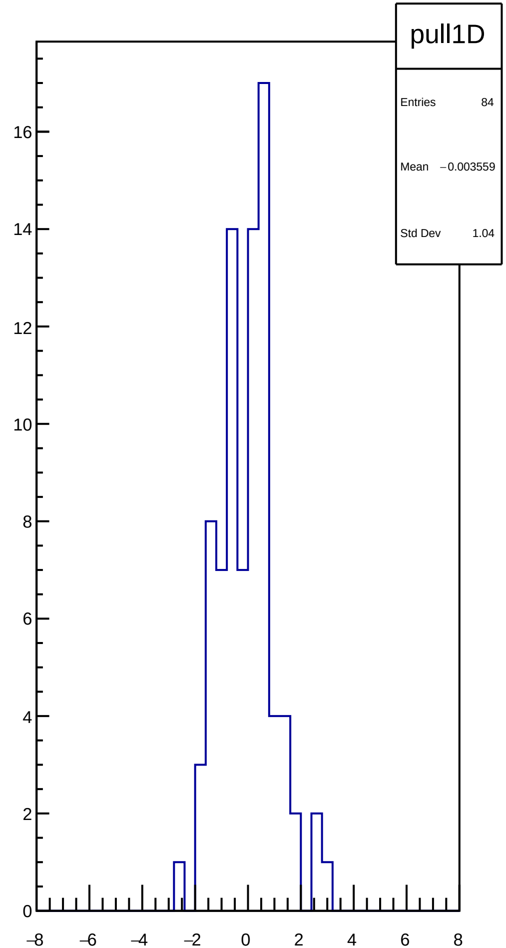

asym_sam_26_48_dd_rms vs run
χ2 / ndf 2.808e+04 / 83
p0 571.1 ± 0.4563
750
700
650
600
550
500
450



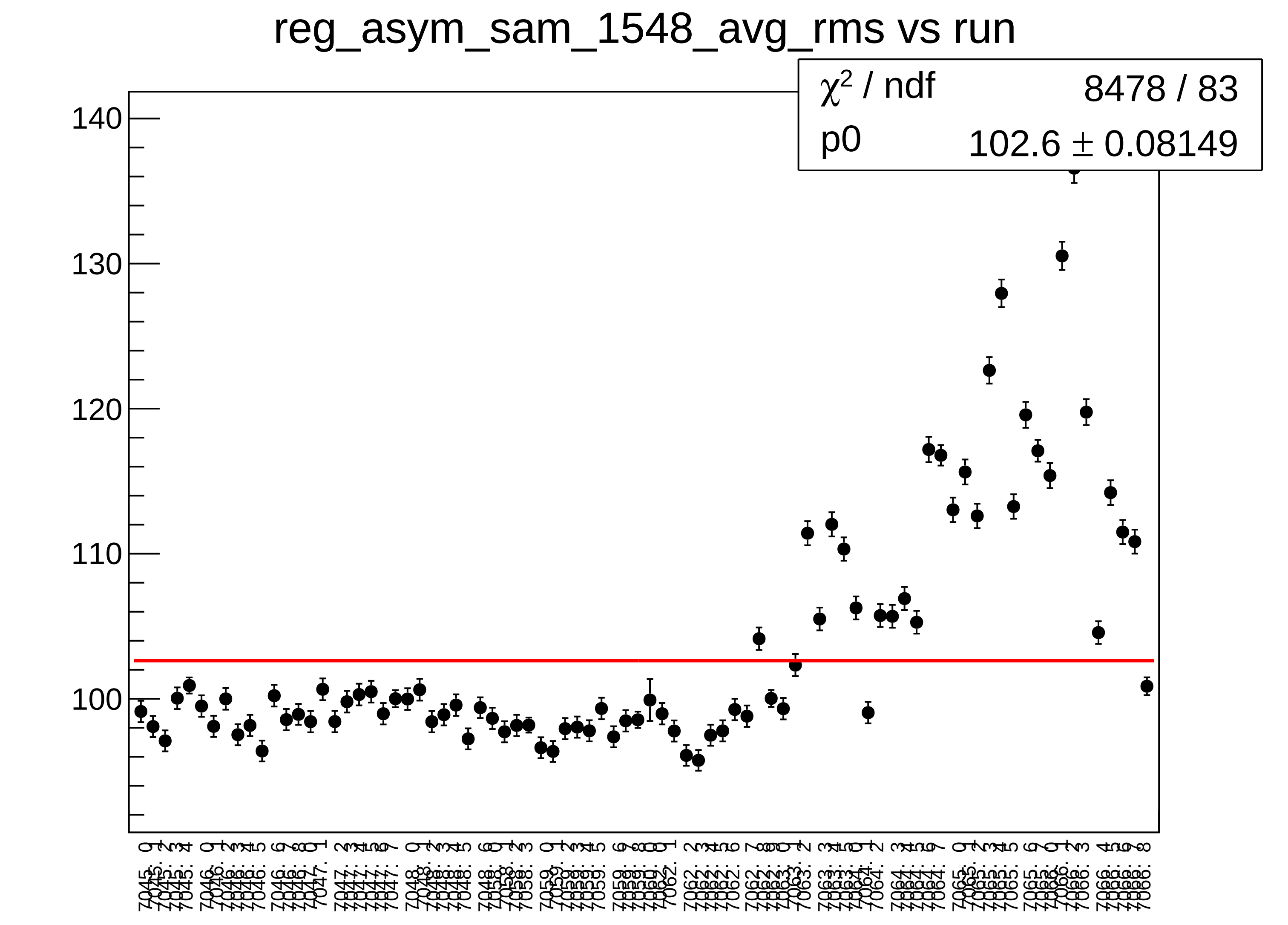
reg_asym_sam_1548_avg_mean vs run
$\chi^2$ / ndf 90.8 / 83
p0 112.8 ± 115.2
4000
2000
0
−2000
−4000

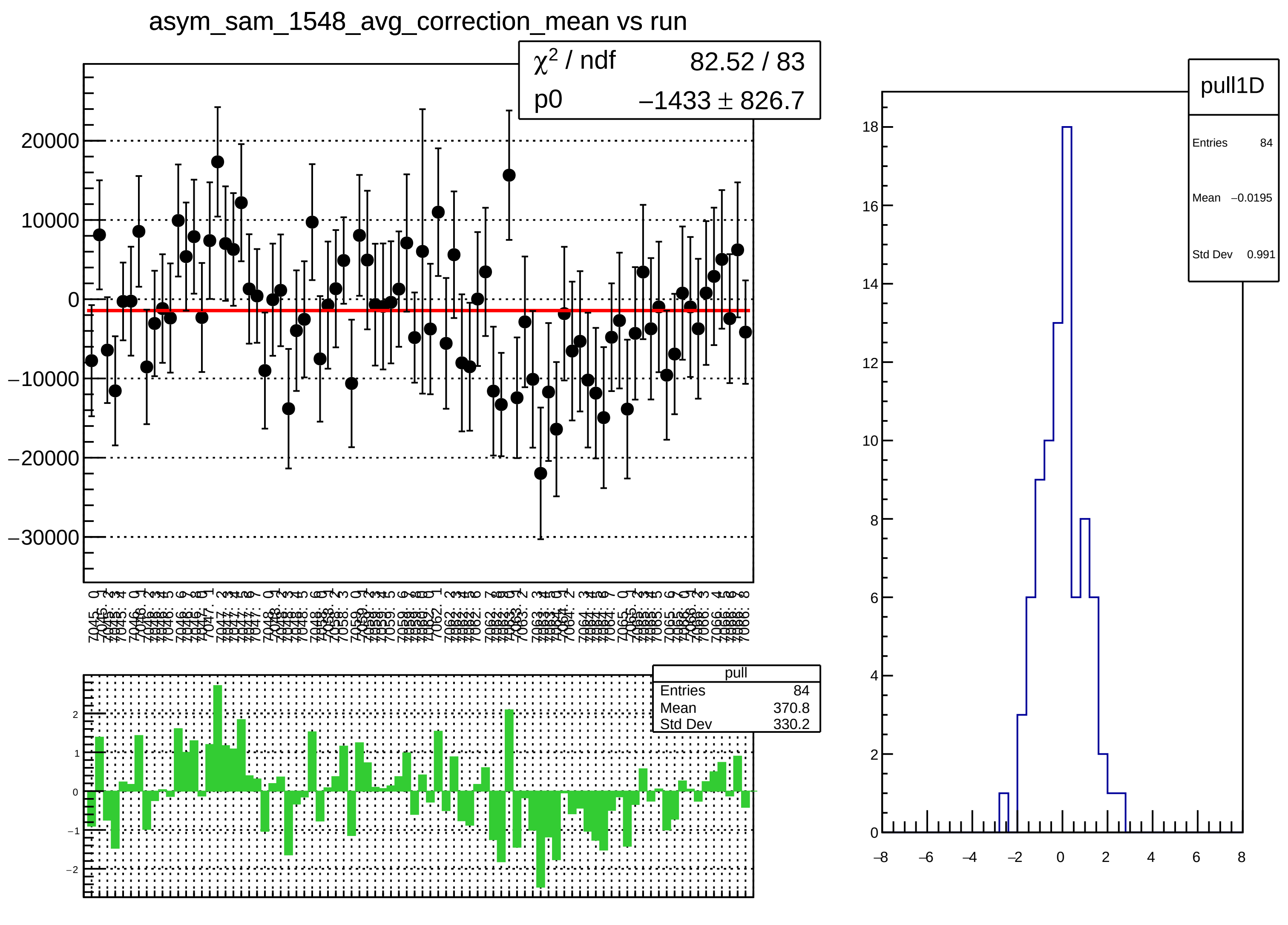



pull
Entries 84
Mean −6.073
Std Dev 137.7
3
2
1
0
−1
−2

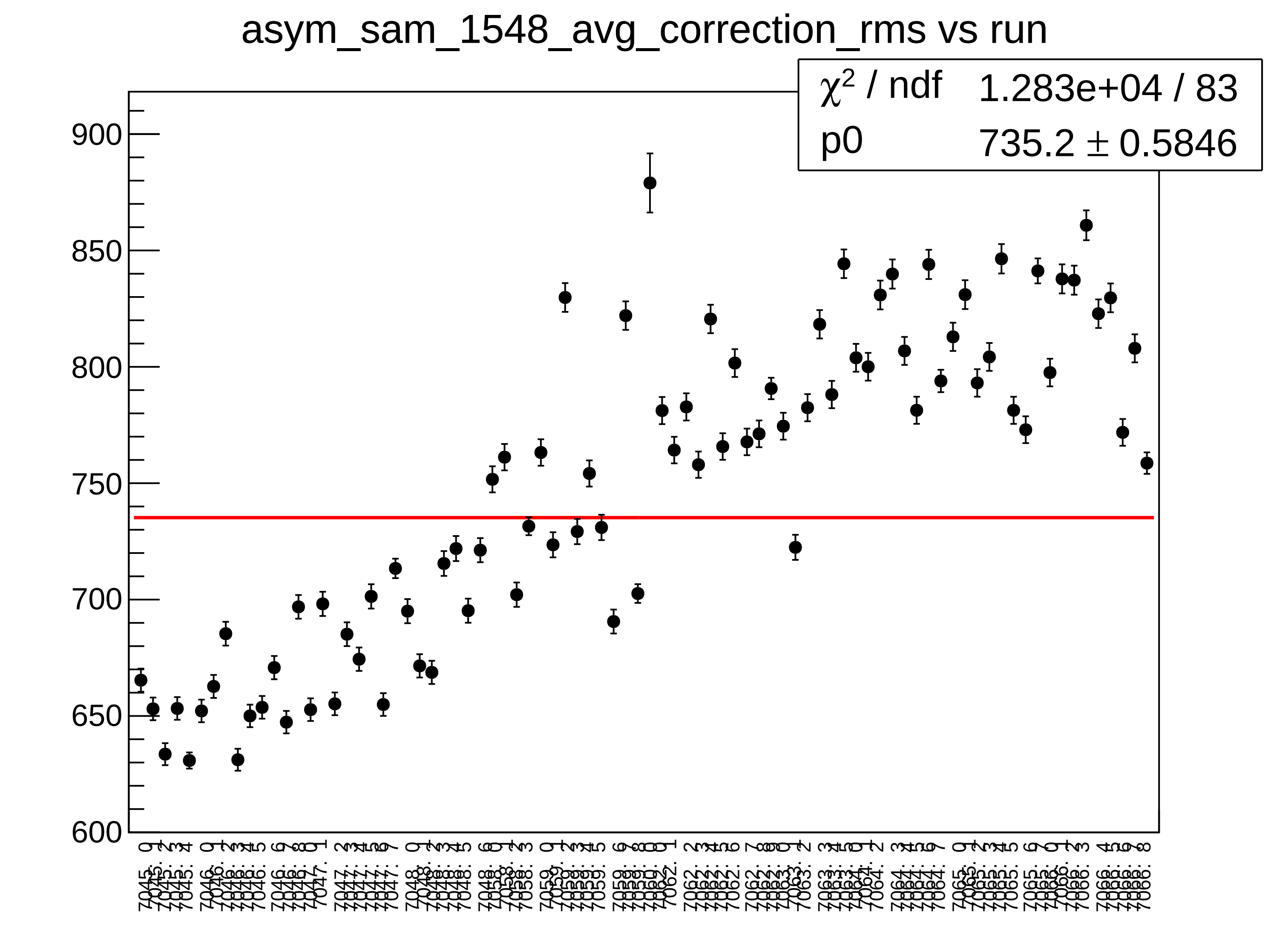



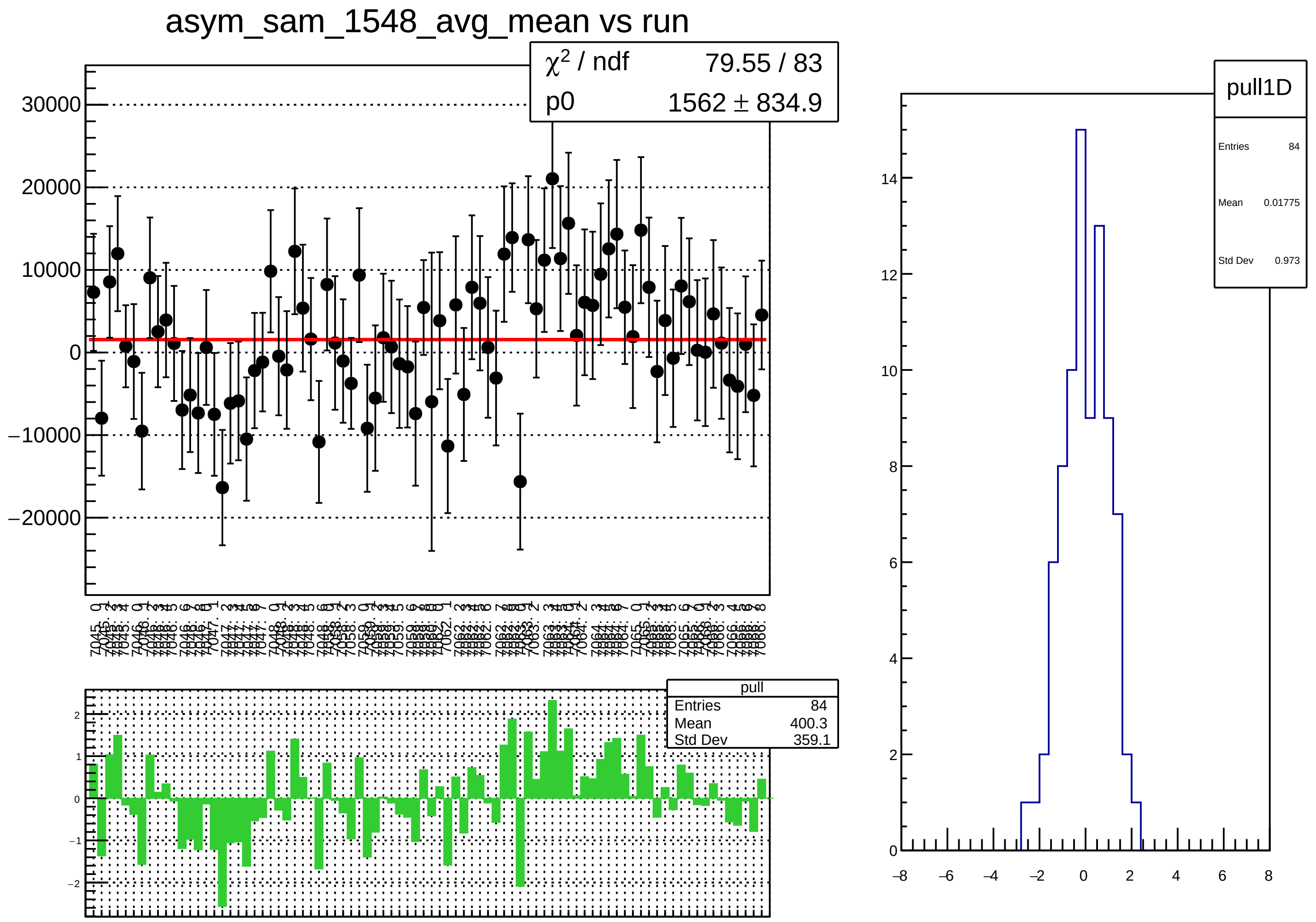
pull1D
Entries 84
Mean −0.003559
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1548_avg_rms vs run
$\chi^2$ / ndf 8478 / 83
p0 102.6 ± 0.08149
140
130
120
110
100

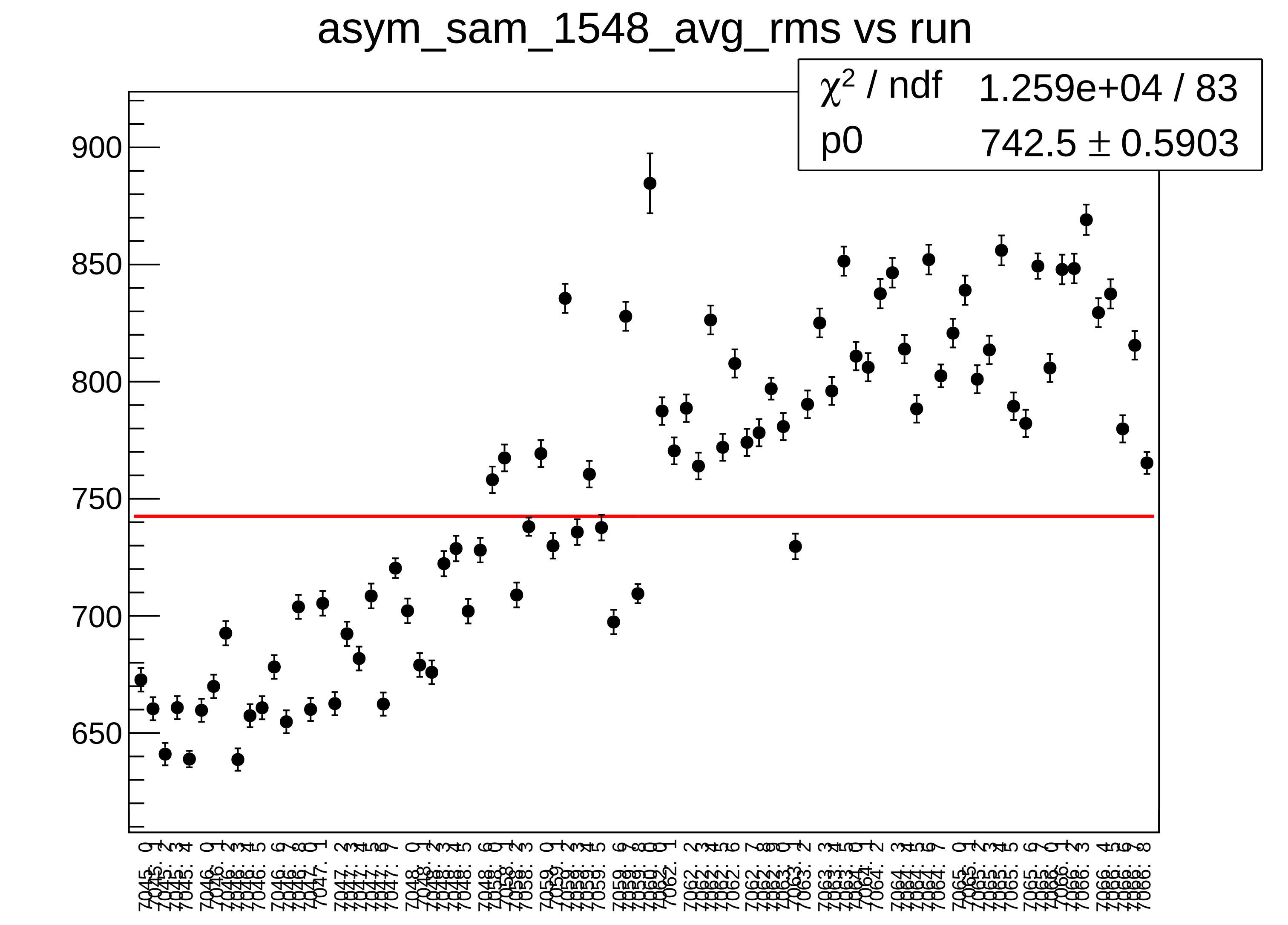


asym_sam_1548_avg_correction_mean vs run
$\chi^2$ / ndf 82.52 / 83
p0 −1433 ± 826.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 370.8
Std Dev 330.2
pull1D
Entries 84
Mean −0.0195
Std Dev 0.991

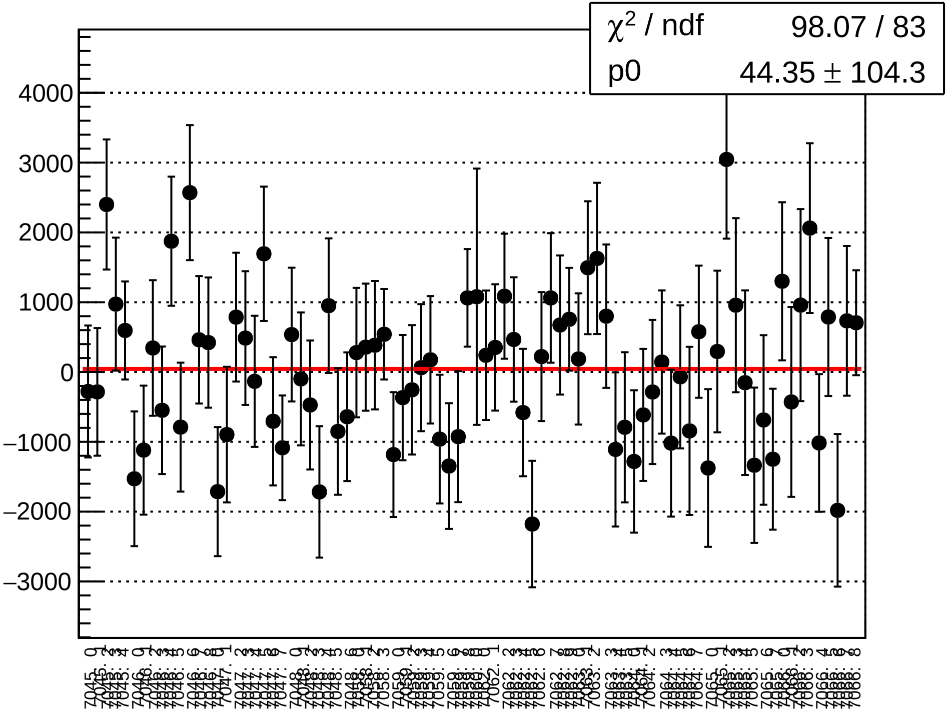

asym_sam_1548_avg_correction_rms vs run
$\chi^2$ / ndf 1.283e+04 / 83
p0 735.2 ± 0.5846
900
850
800
750
700
650
600

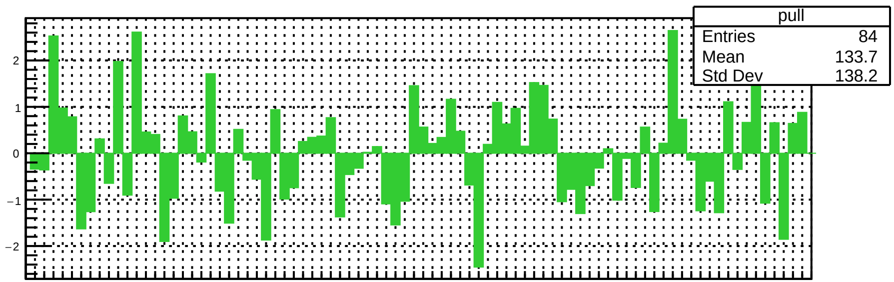


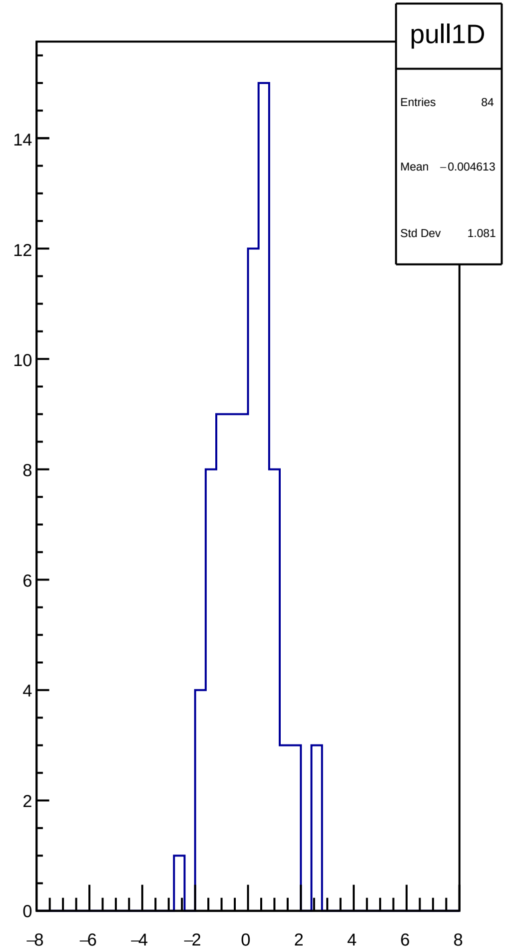
asym_sam_1548_avg_mean vs run
χ2 / ndf 79.55 / 83
p0 1562 ± 834.9
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 400.3
Std Dev 359.1
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.01775
Std Dev 0.973
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

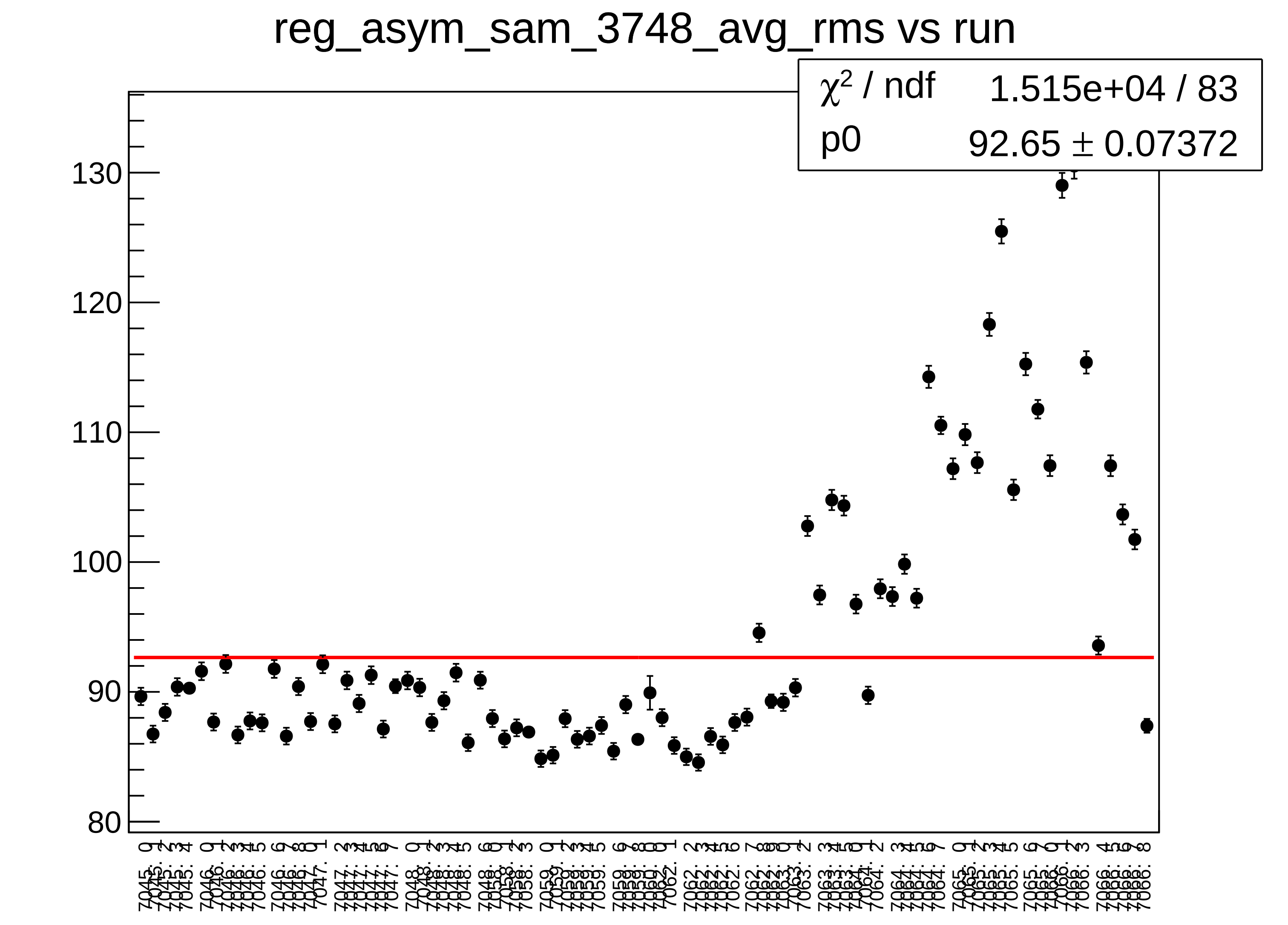

asym_sam_1548_avg_rms vs run
$\chi^2$ / ndf 1.259e+04 / 83
p0 742.5 ± 0.5903
900
850
800
750
700
650

reg_asym_sam_3748_avg_mean vs run

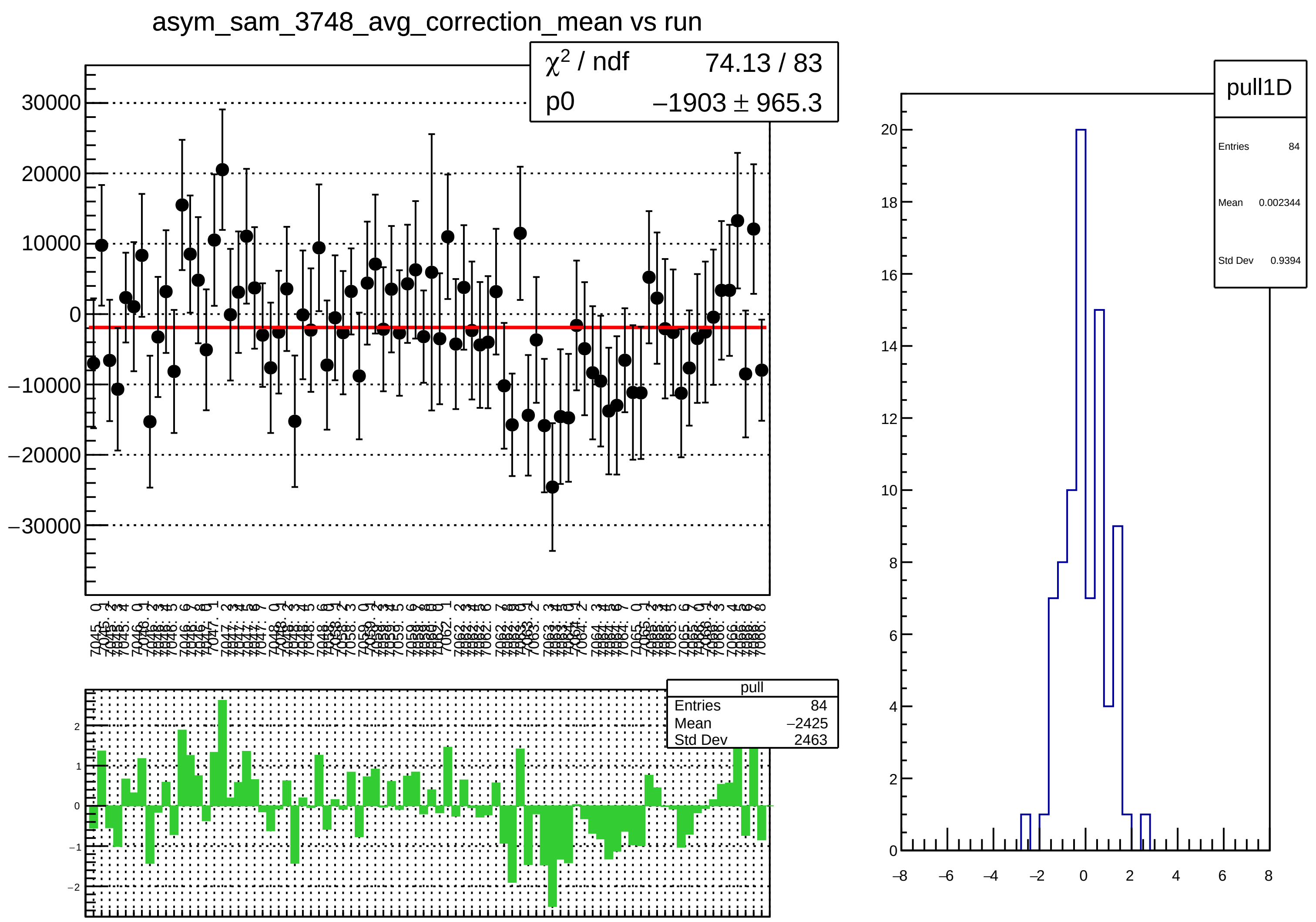


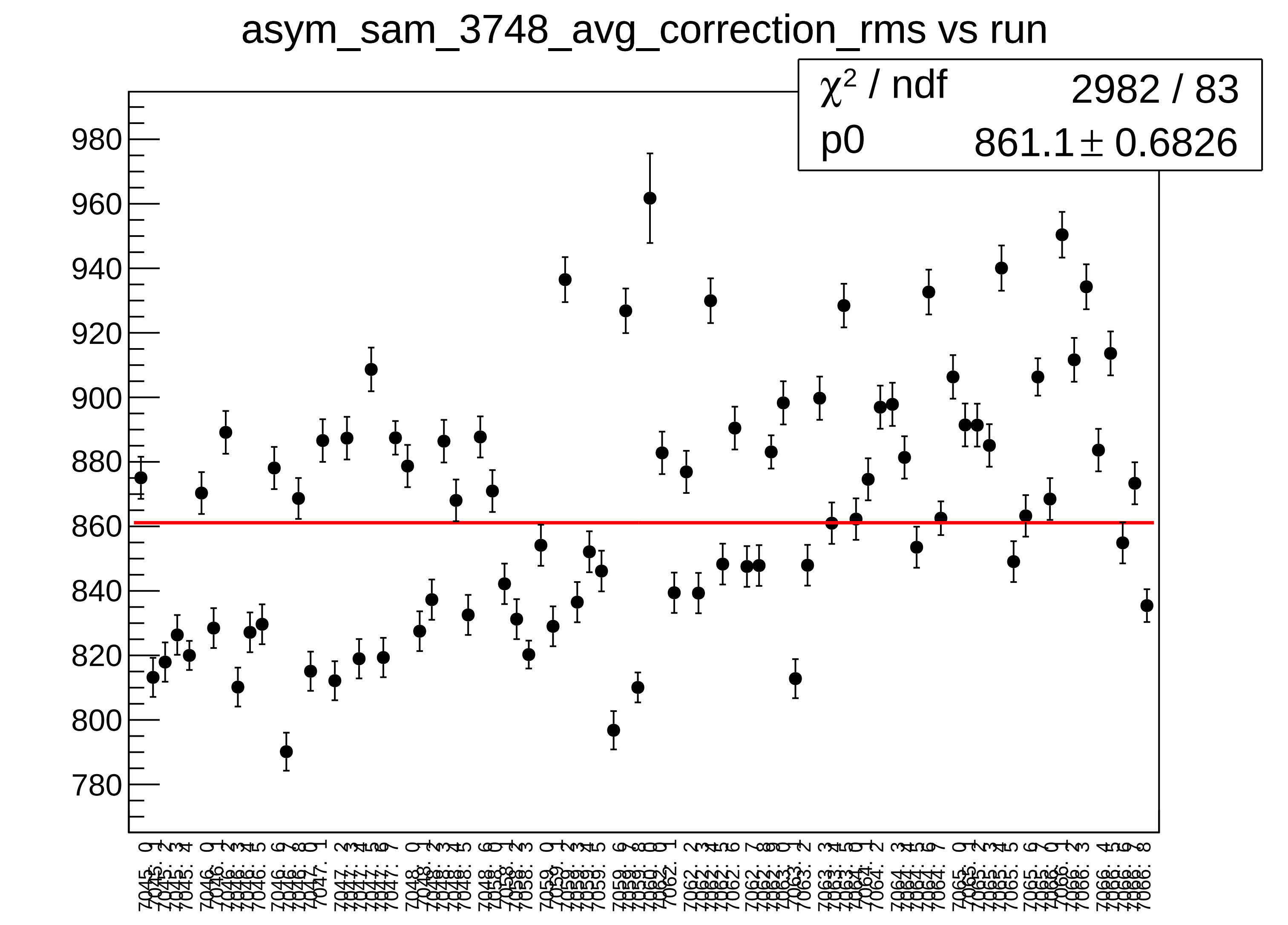





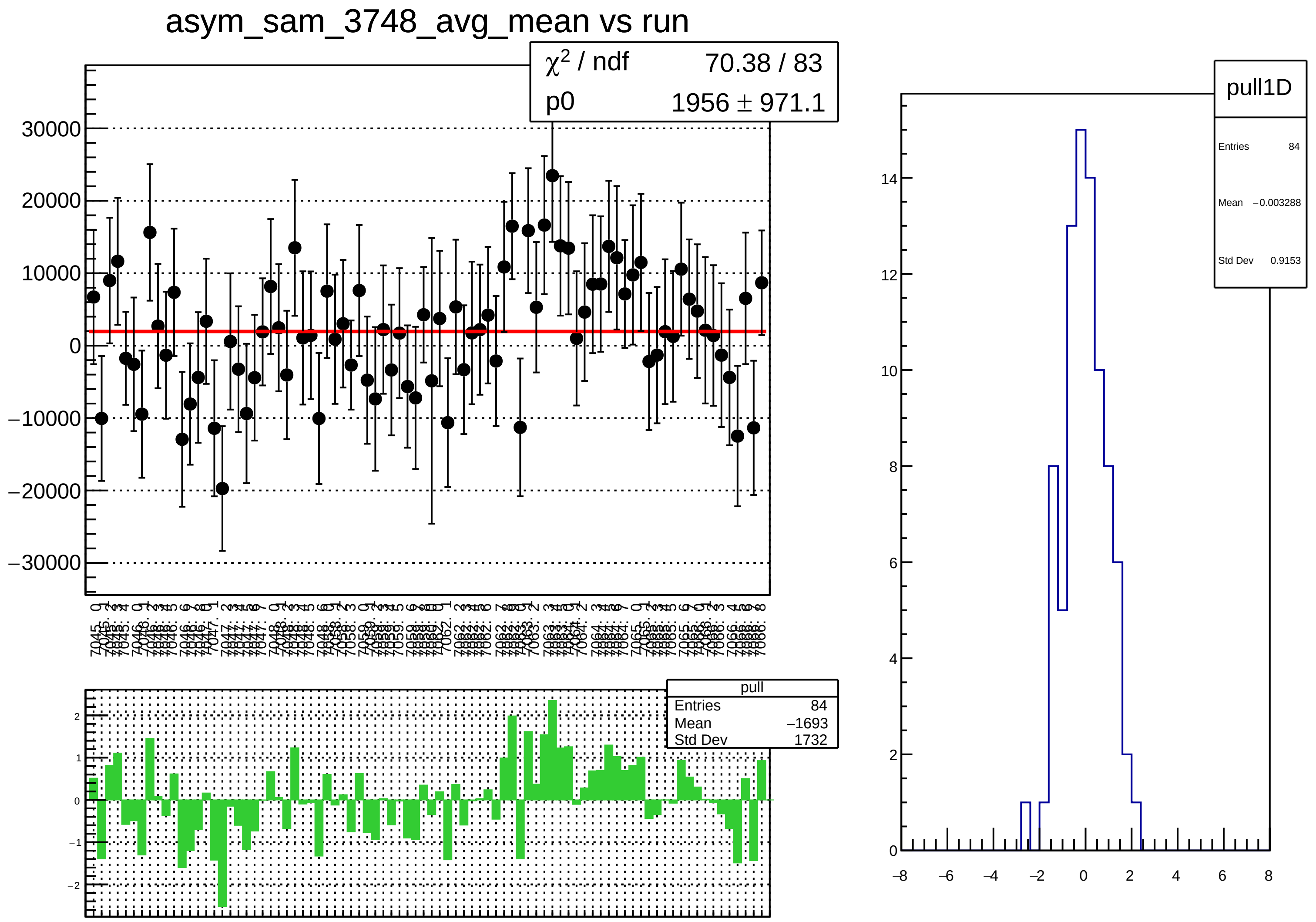
reg_asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 1.515e+04 / 83
p0 92.65 ± 0.07372
130
120
110
100
90
80

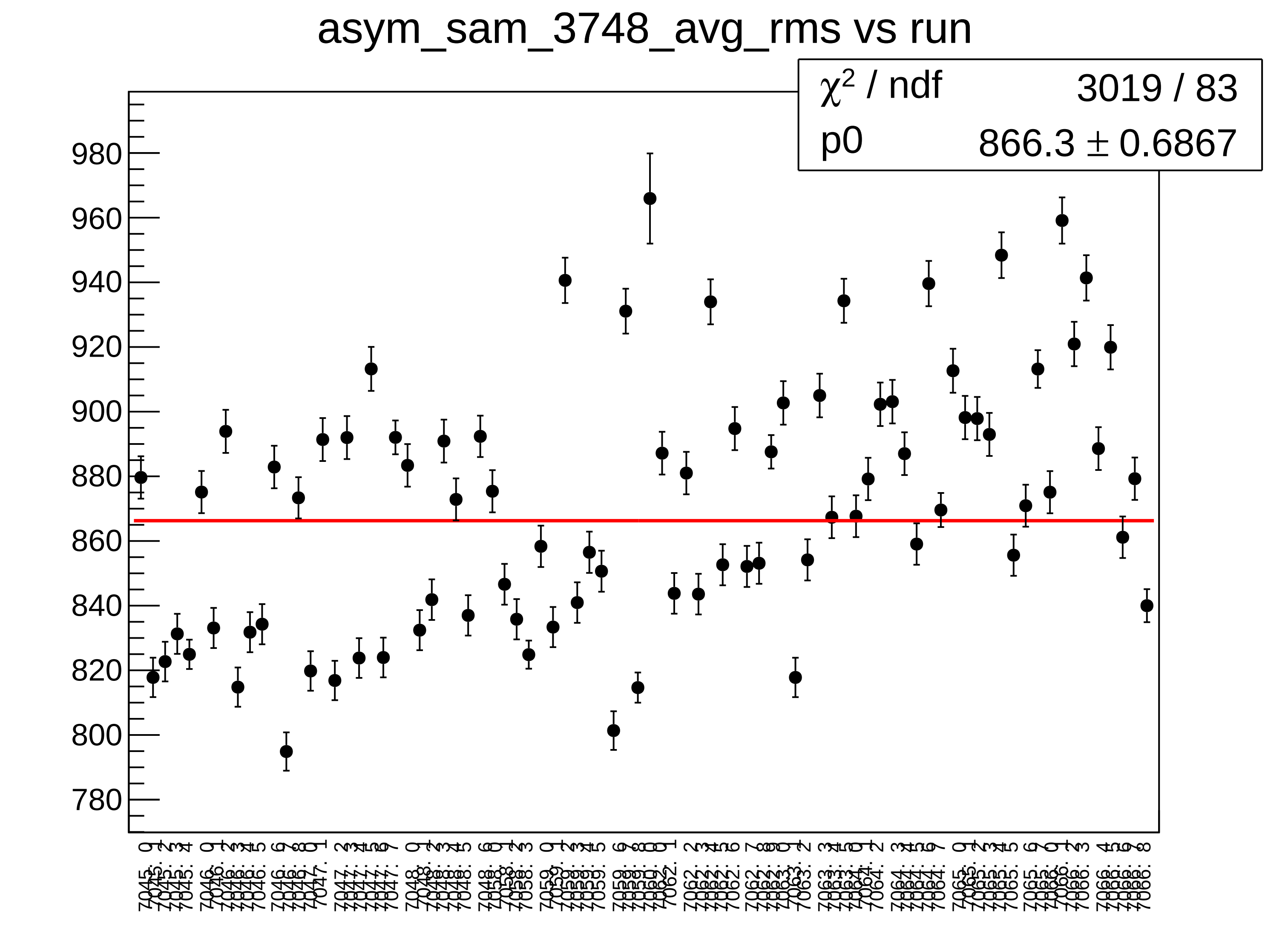


asym_sam_3748_avg_correction_mean vs run
$\chi^2$ / ndf 74.13 / 83
p0 −1903 ± 965.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −2425
Std Dev 2463
pull1D
Entries 84
Mean 0.002344
Std Dev 0.9394

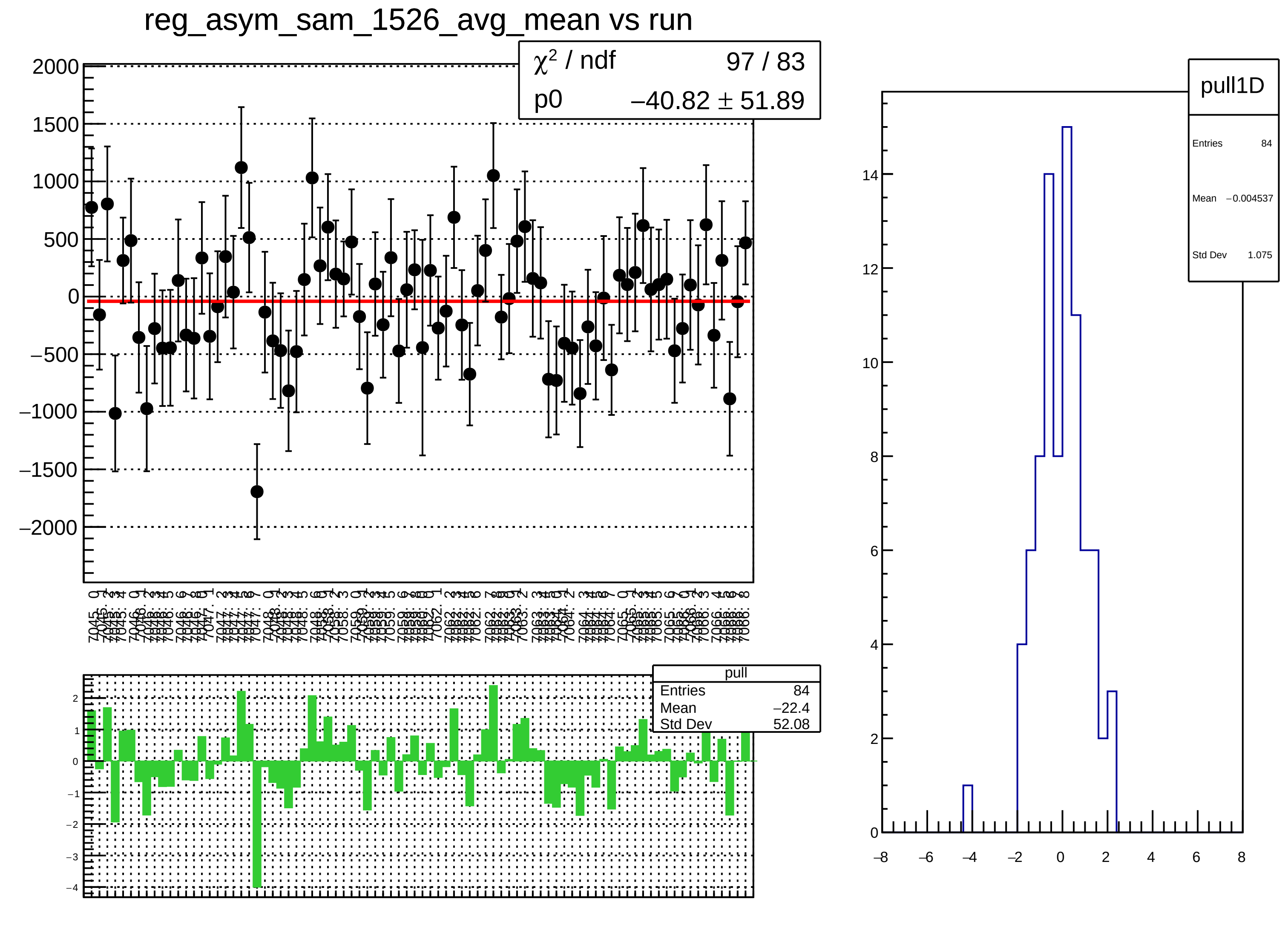


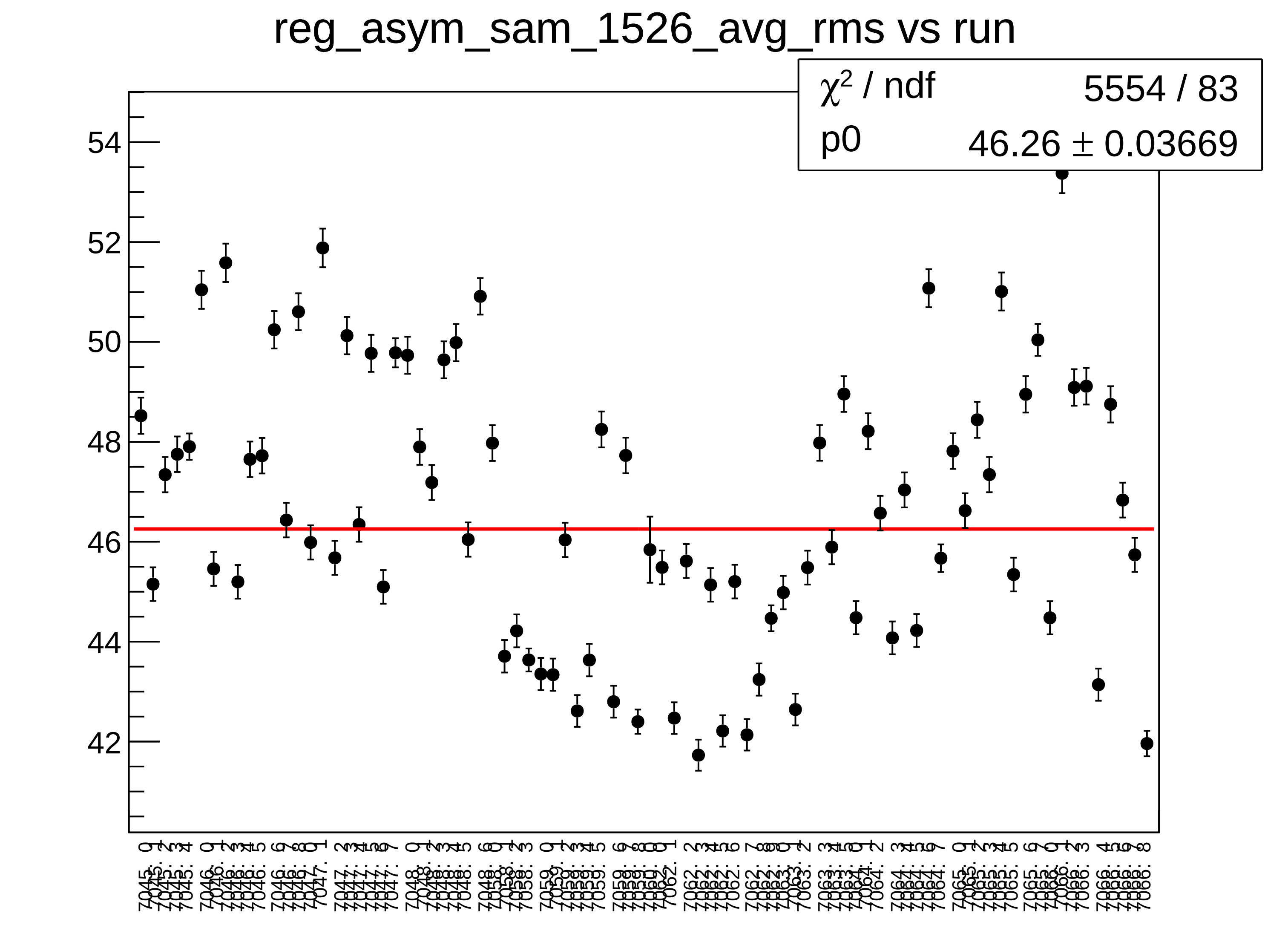
asym_sam_3748_avg_correction_rms vs run
$\chi^2$ / ndf 2982 / 83
p0 861.1 ± 0.6826
980
960
940
920
900
880
860
840
820
800
780


asym_sam_3748_avg_mean vs run
$\chi^2$ / ndf 70.38 / 83
p0 1956 ± 971.1
pull
Entries 84
Mean −1693
Std Dev 1732
pull1D
Entries 84
Mean −0.003288
Std Dev 0.9153

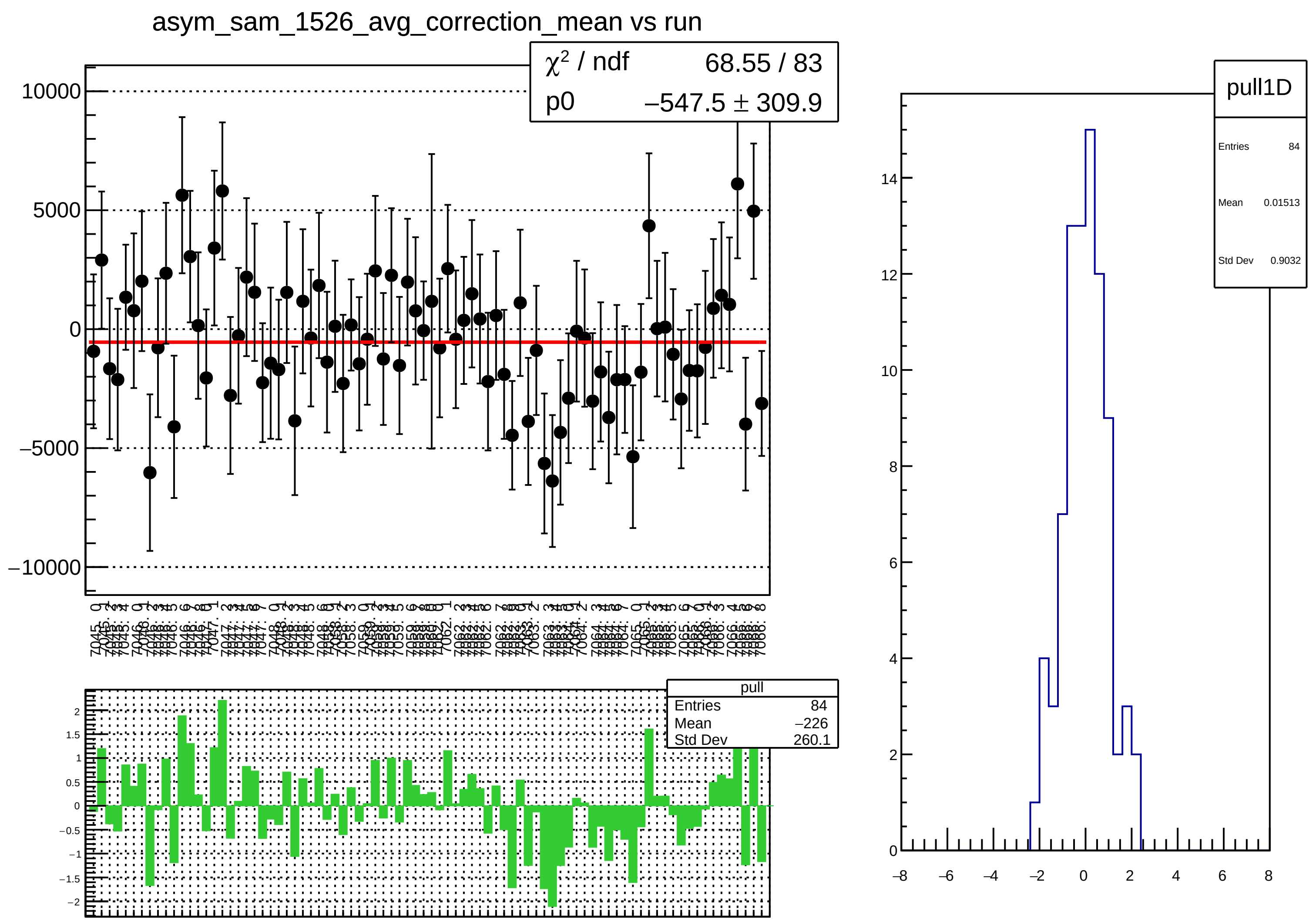


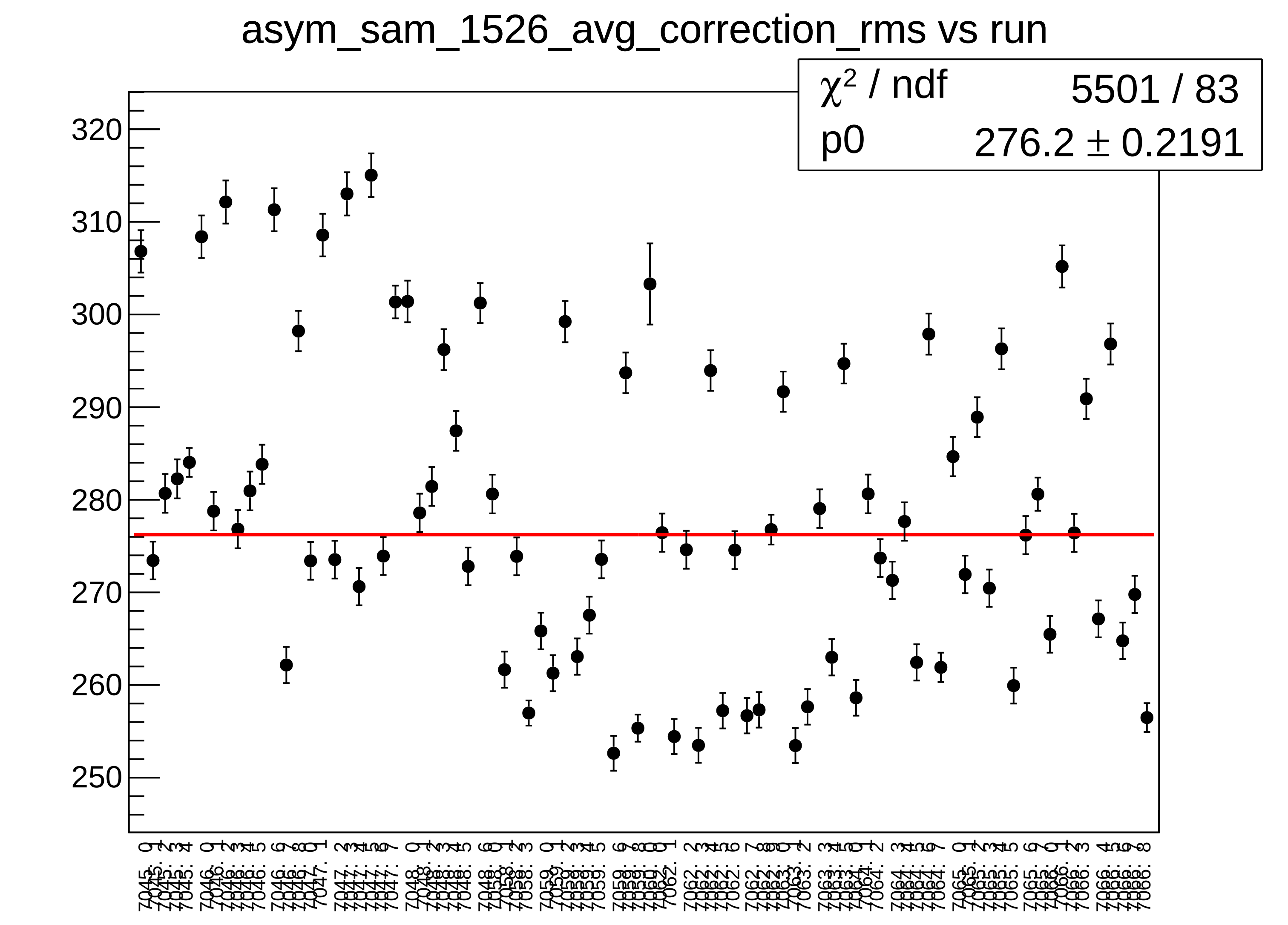
asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 3019 / 83
p0 866.3 ± 0.6867
980
960
940
920
900
880
860
840
820
800
780

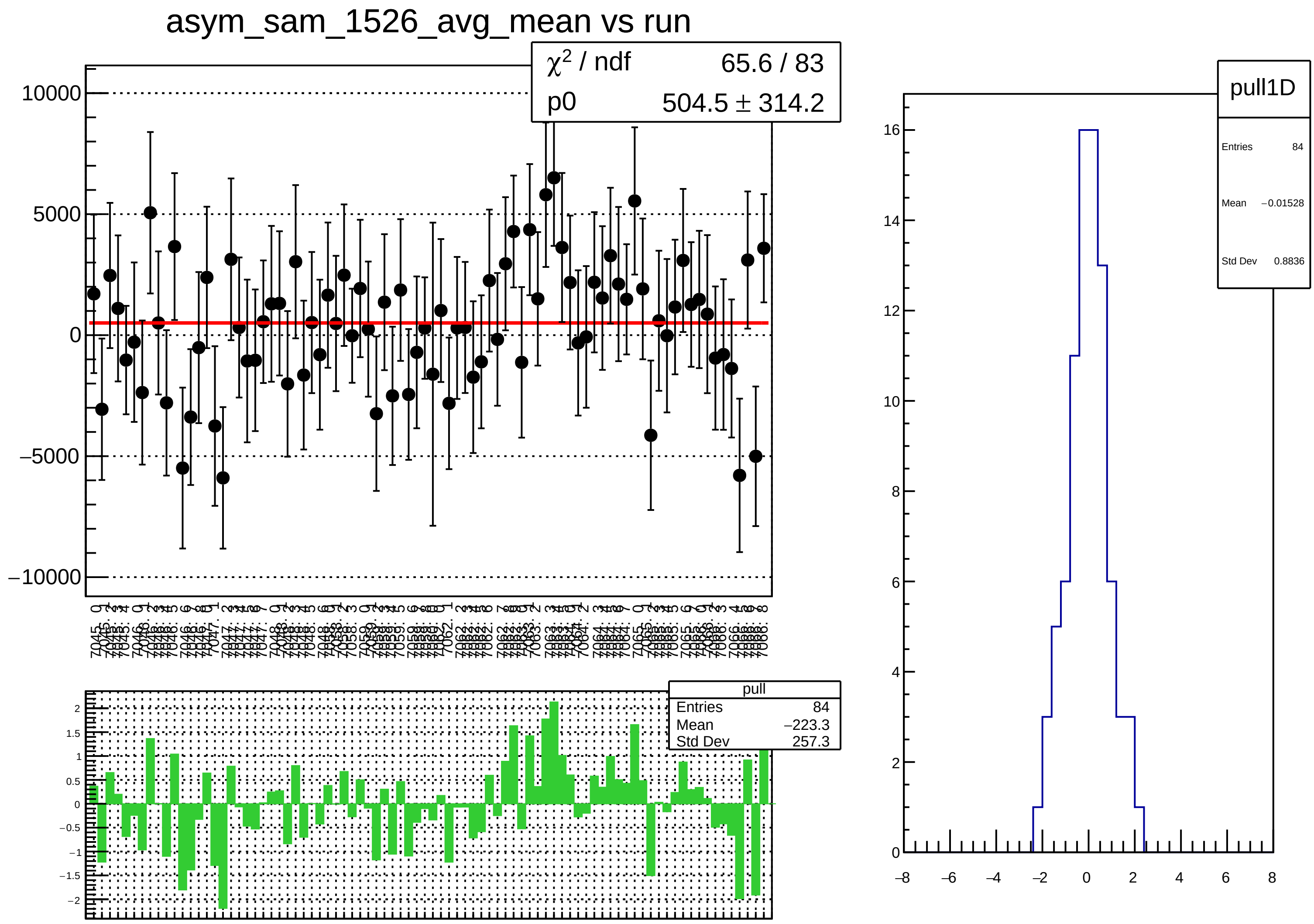

reg_asym_sam_1526_avg_mean vs run
χ2 / ndf 97 / 83
p0 −40.82 ± 51.89
pull
Entries 84
Mean −22.4
Std Dev 52.08
pull1D
Entries 84
Mean −0.004537
Std Dev 1.075

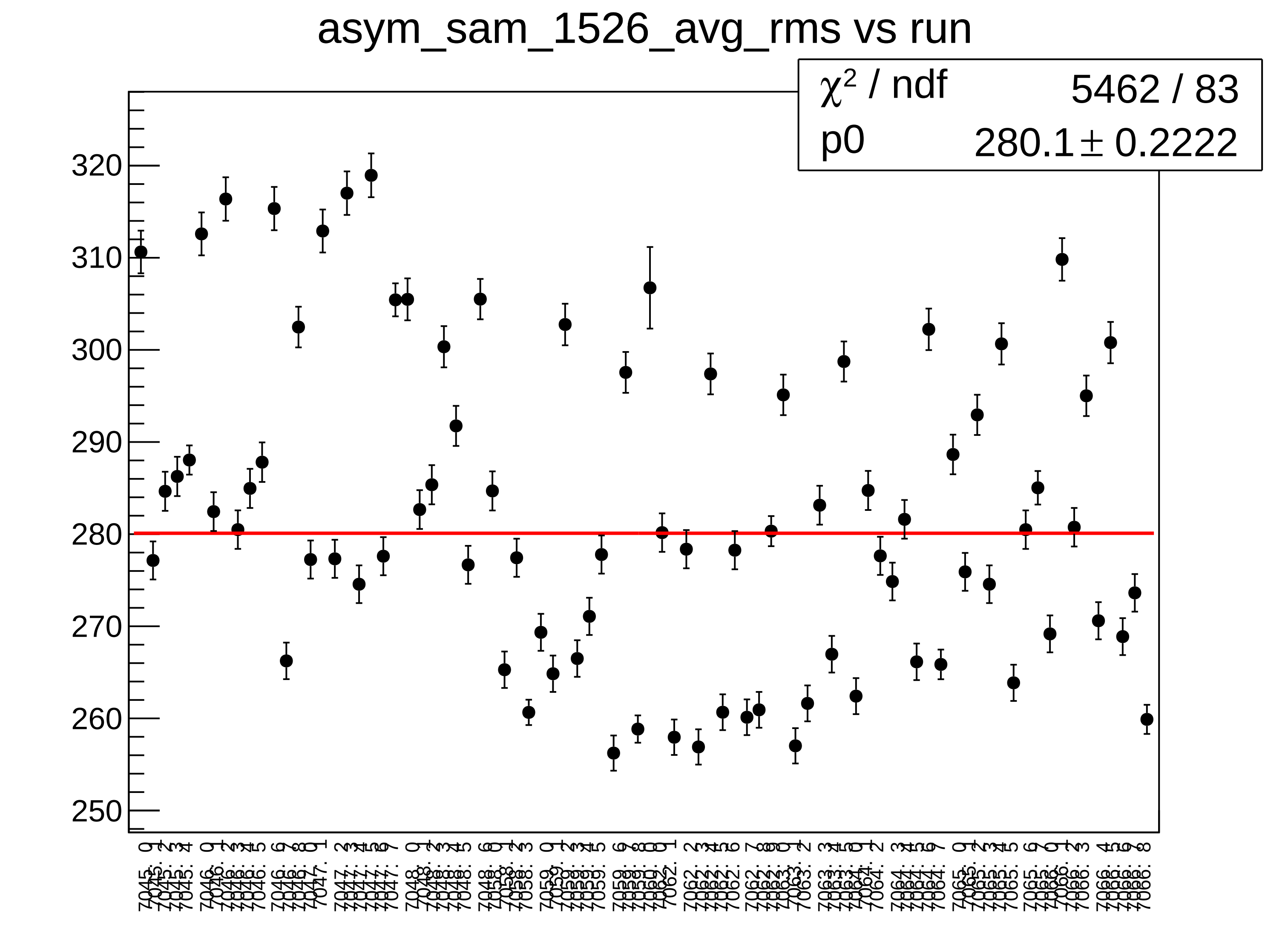


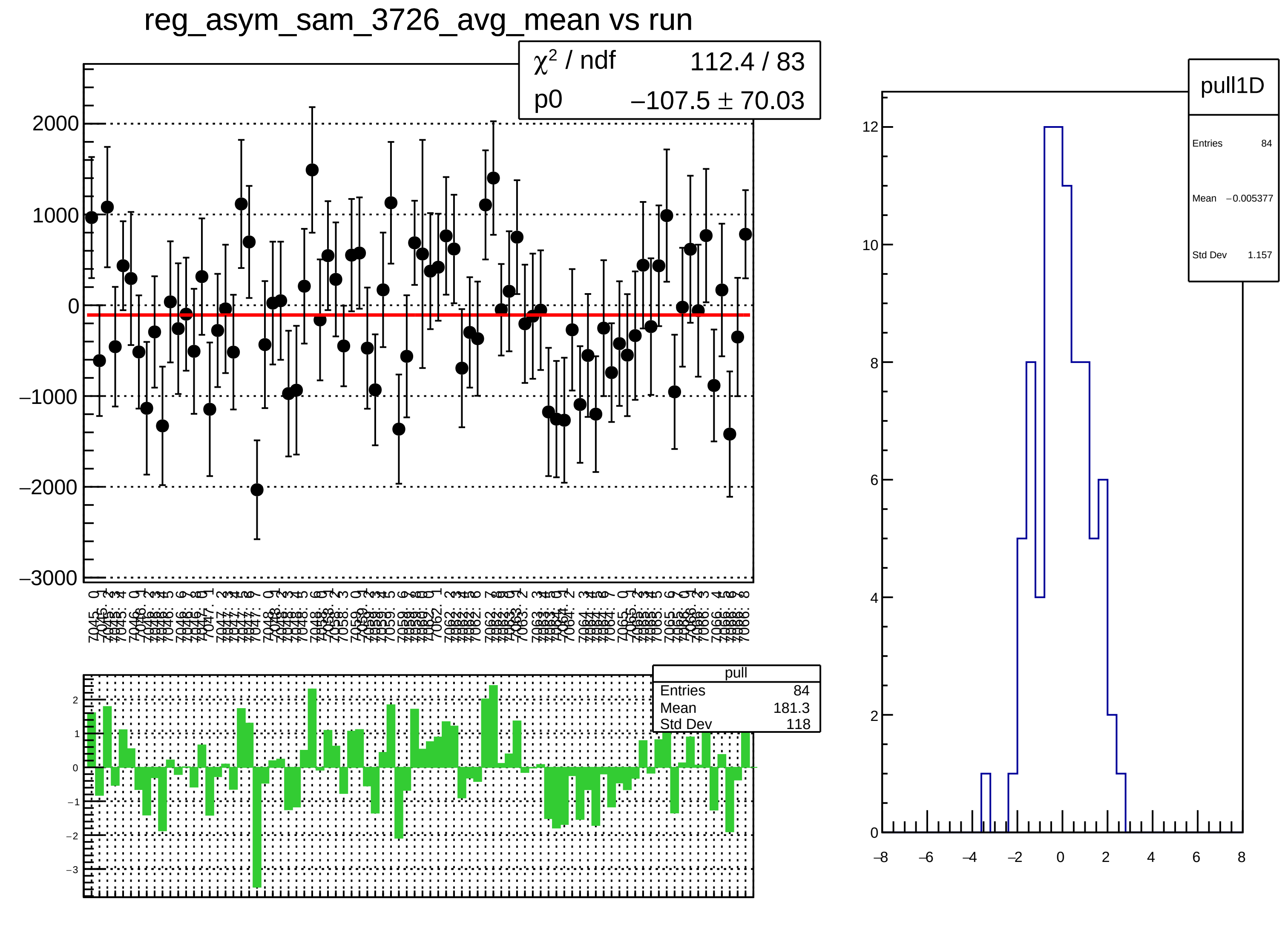
reg_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 5554 / 83
p0 46.26 ± 0.03669

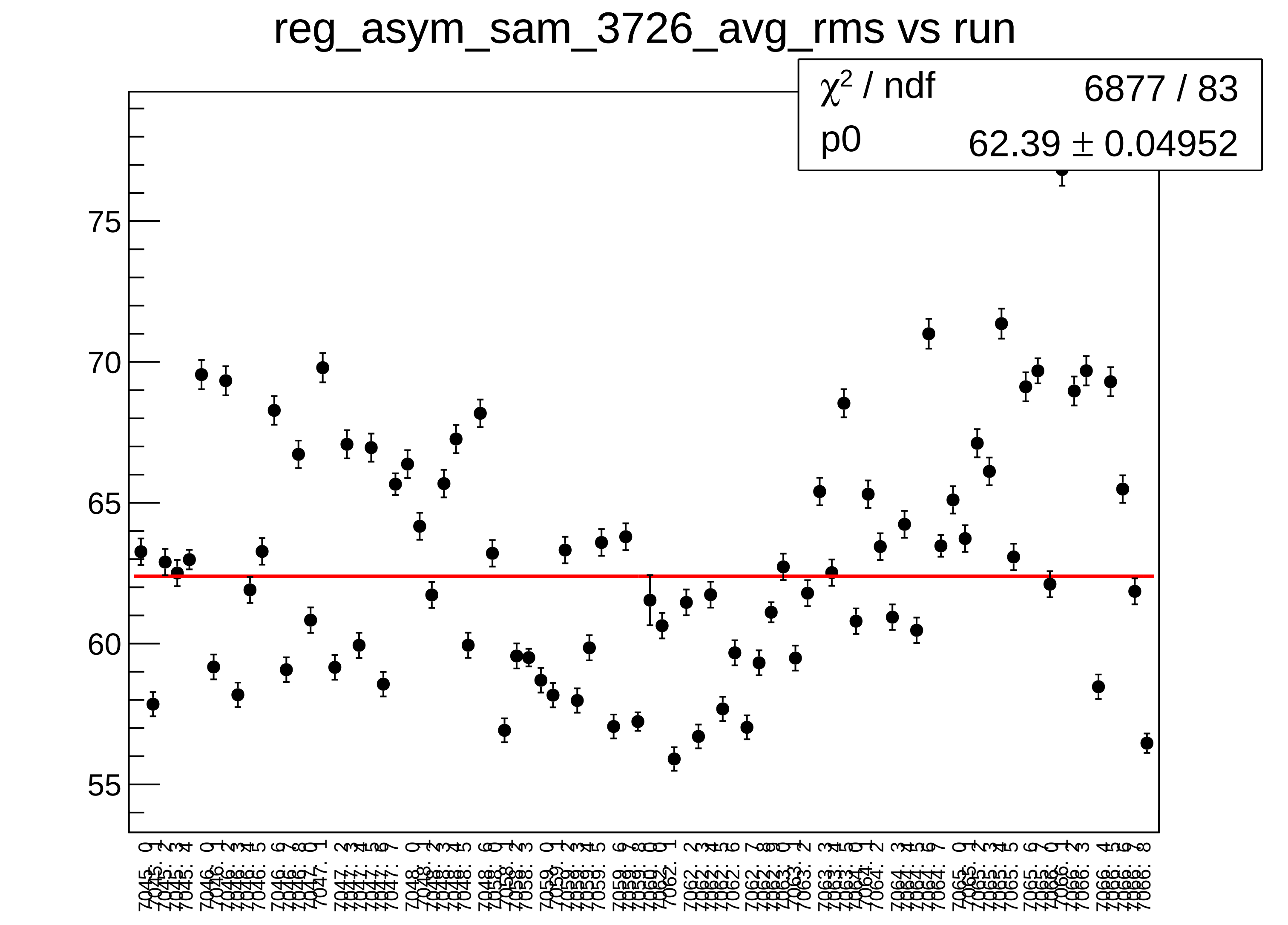

asym_sam_1526_avg_correction_mean vs run
$\chi^2$ / ndf 68.55 / 83
p0 −547.5 ± 309.9
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −226
Std Dev 260.1
pull1D
Entries 84
Mean 0.01513
Std Dev 0.9032


asym_sam_1526_avg_correction_rms vs run
$\chi^2$ / ndf 5501 / 83
p0 276.2 ± 0.2191
320
310
300
290
280
270
260
250

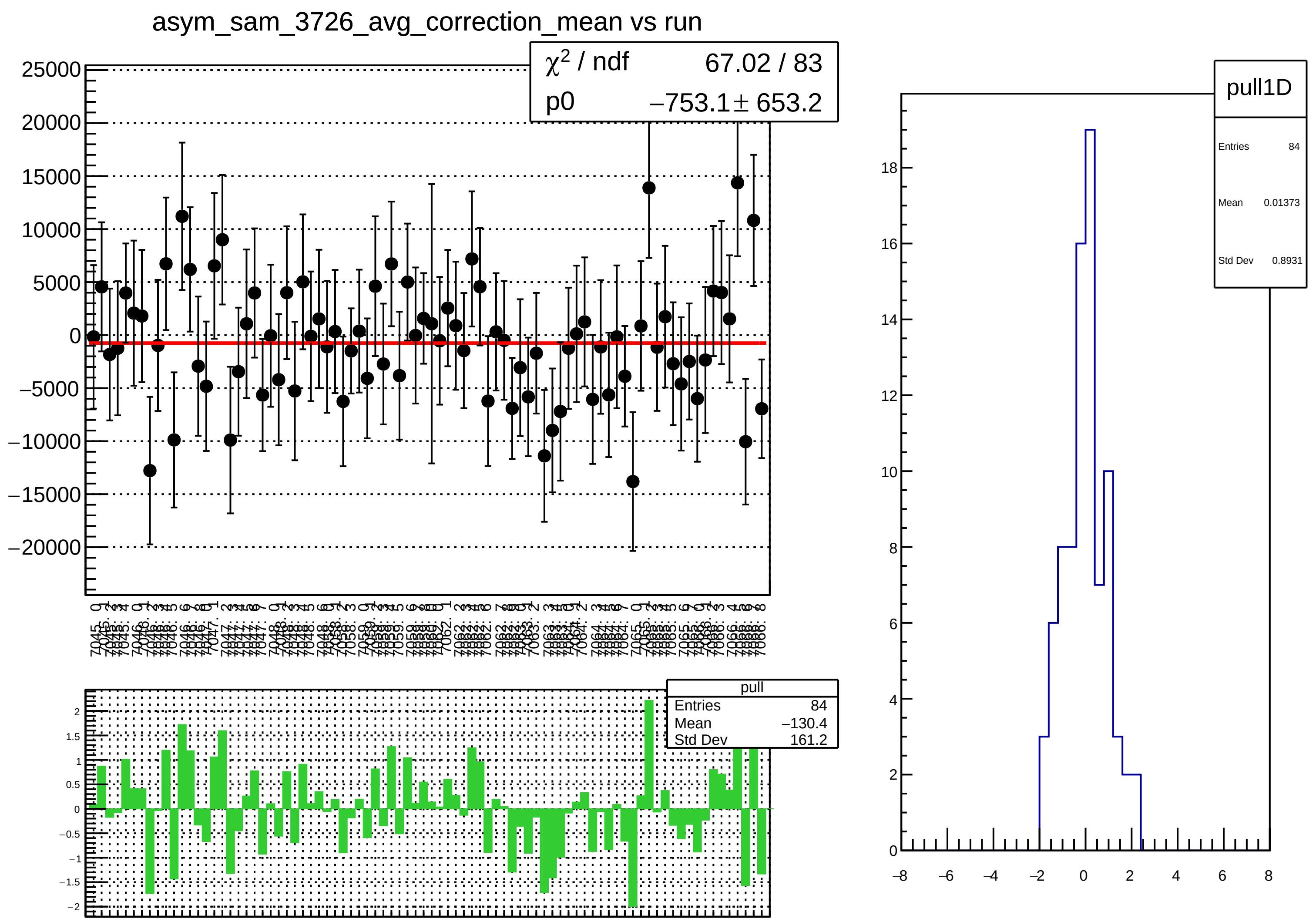

asym_sam_1526_avg_mean vs run
$\chi^2$ / ndf 65.6 / 83
p0 504.5 ± 314.2
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −223.3
Std Dev 257.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.01528
Std Dev 0.8836
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 5462 / 83
p0 280.1 ± 0.2222

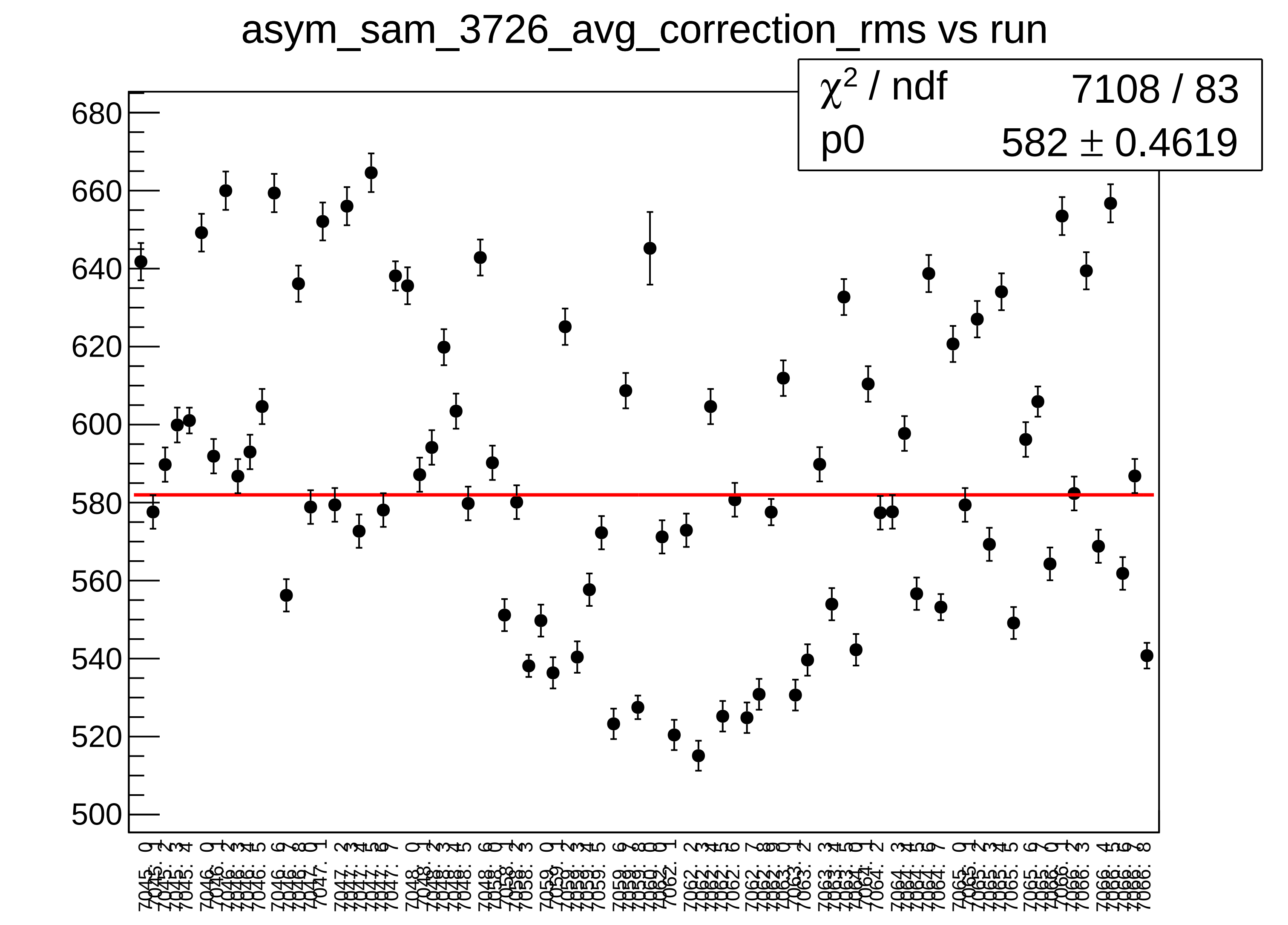

reg_asym_sam_3726_avg_mean vs run
χ2 / ndf 112.4 / 83
p0 −107.5 ± 70.03
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 181.3
Std Dev 118
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.005377
Std Dev 1.157
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



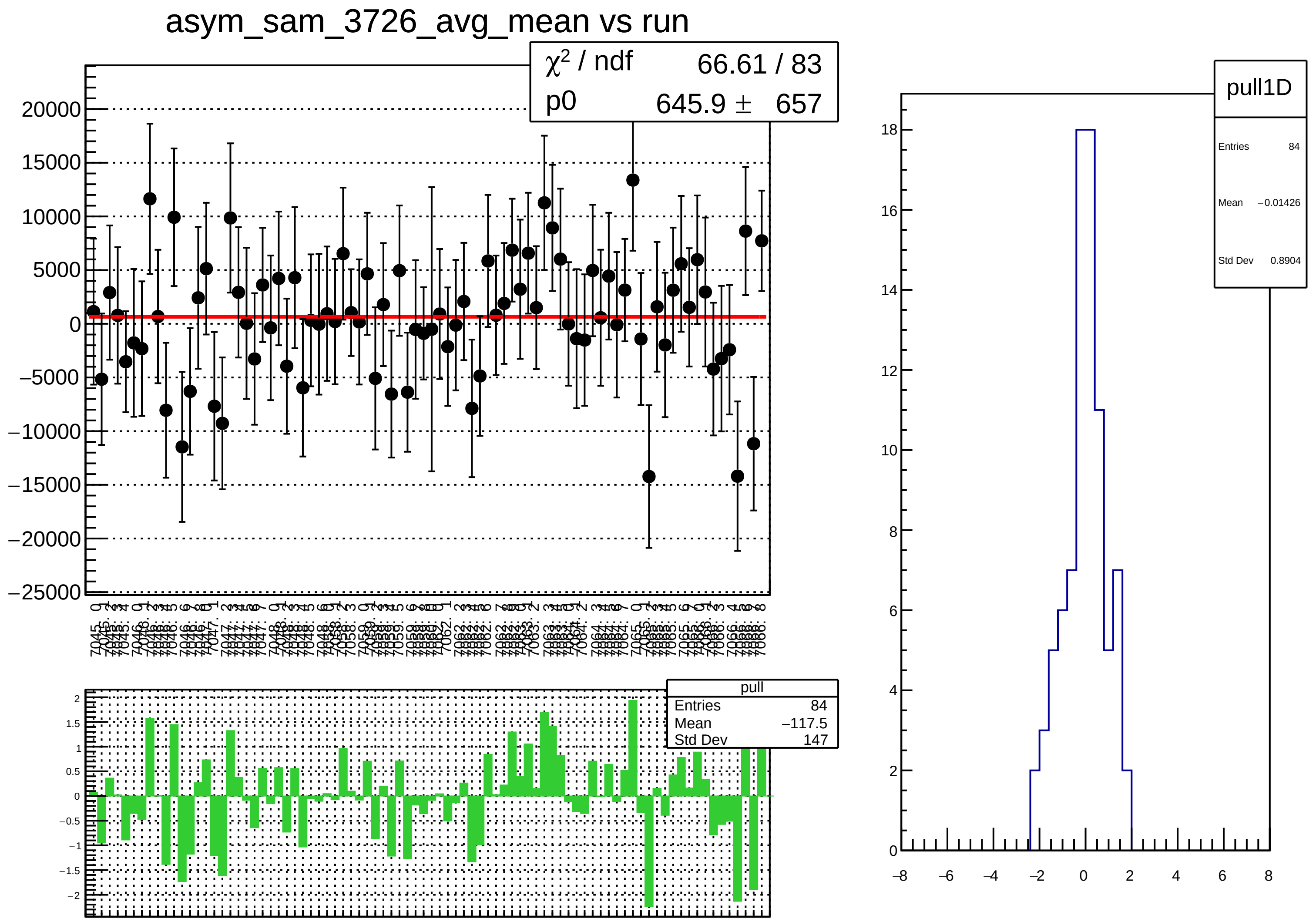
reg_asym_sam_3726_avg_rms vs run
χ2 / ndf 6877 / 83
p0 62.39 ± 0.04952
75
70
65
60
55



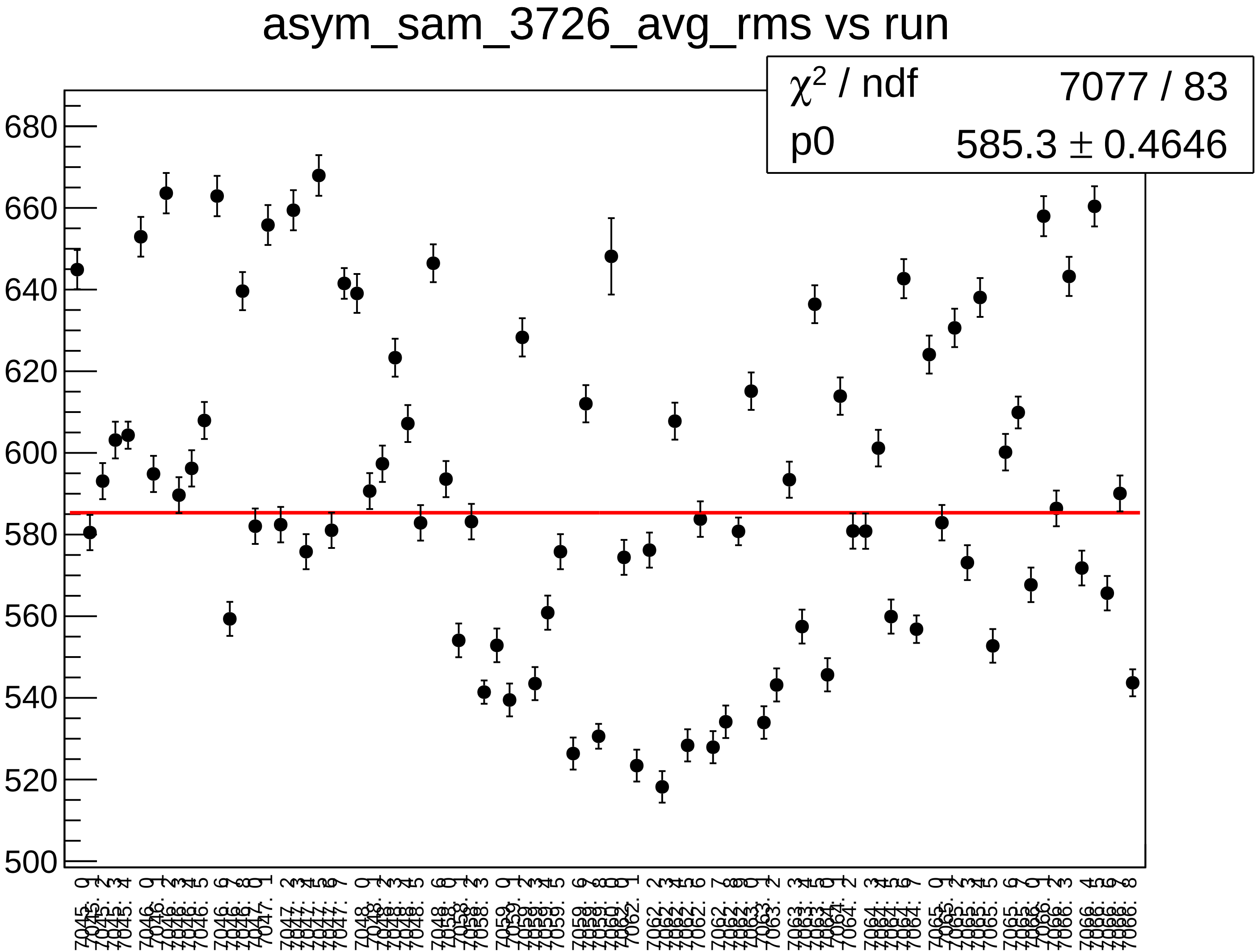
asym_sam_3726_avg_correction_mean vs run
$\chi^2$ / ndf 67.02 / 83
p0 −753.1 ± 653.2
pull
Entries 84
Mean −130.4
Std Dev 161.2
pull1D
Entries 84
Mean 0.01373
Std Dev 0.8931

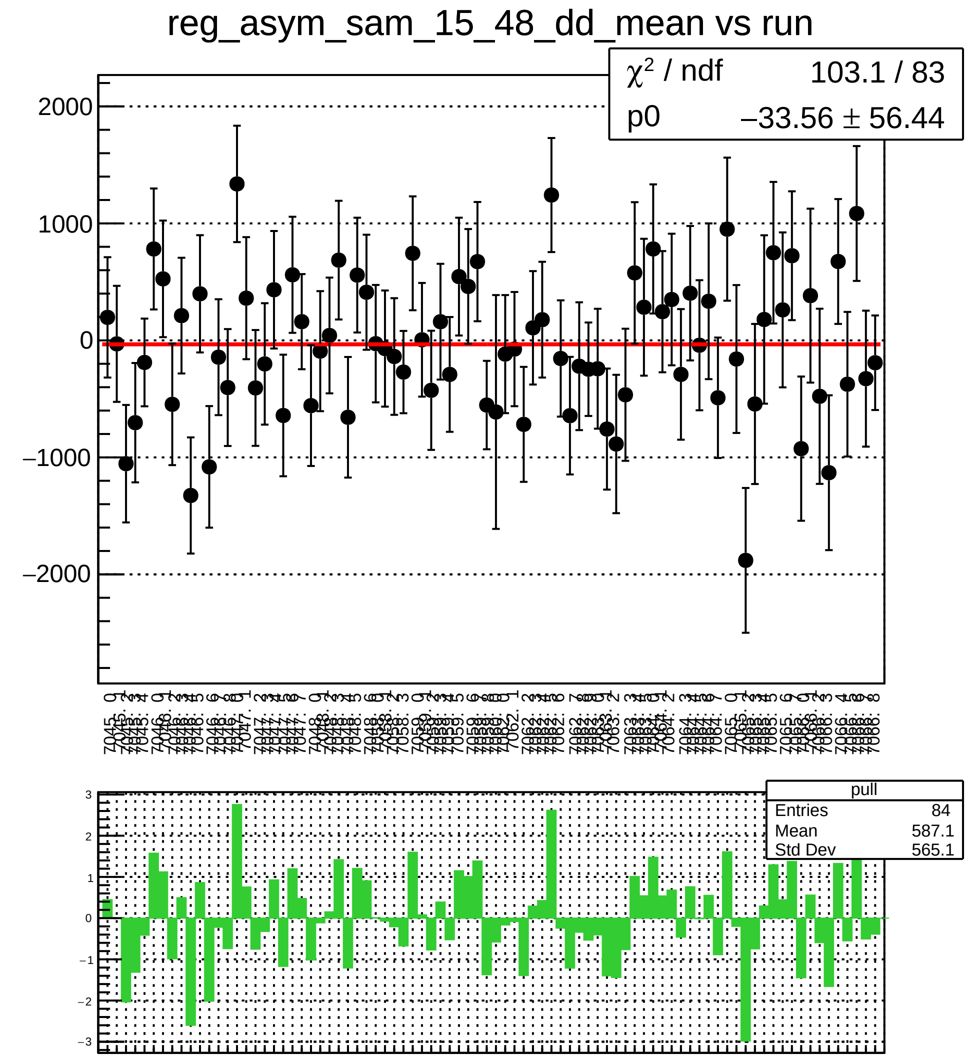


asym_sam_3726_avg_correction_rms vs run
$\chi^2$ / ndf 7108 / 83
p0 582 ± 0.4619

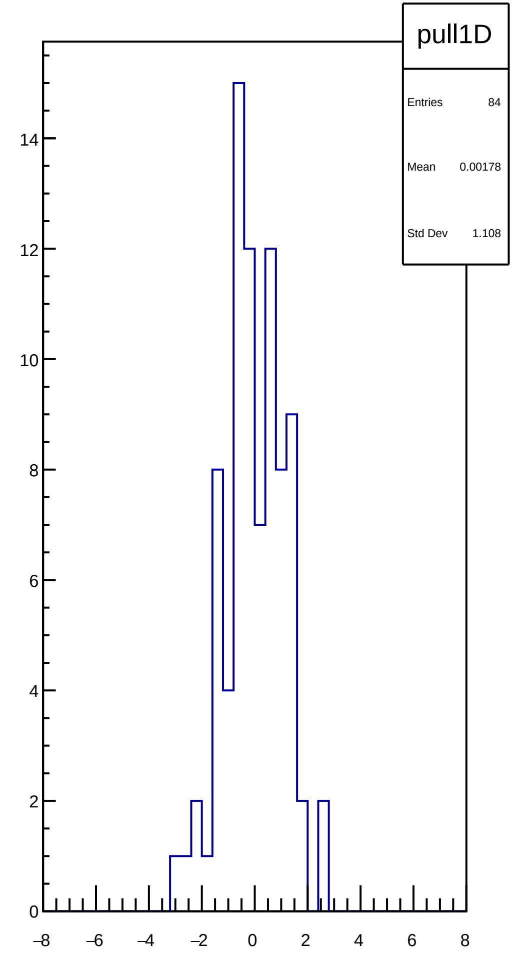


asym_sam_3726_avg_mean vs run
$\chi^2$ / ndf 66.61 / 83
p0 645.9 ± 657
pull
Entries 84
Mean −117.5
Std Dev 147
pull1D
Entries 84
Mean −0.01426
Std Dev 0.8904

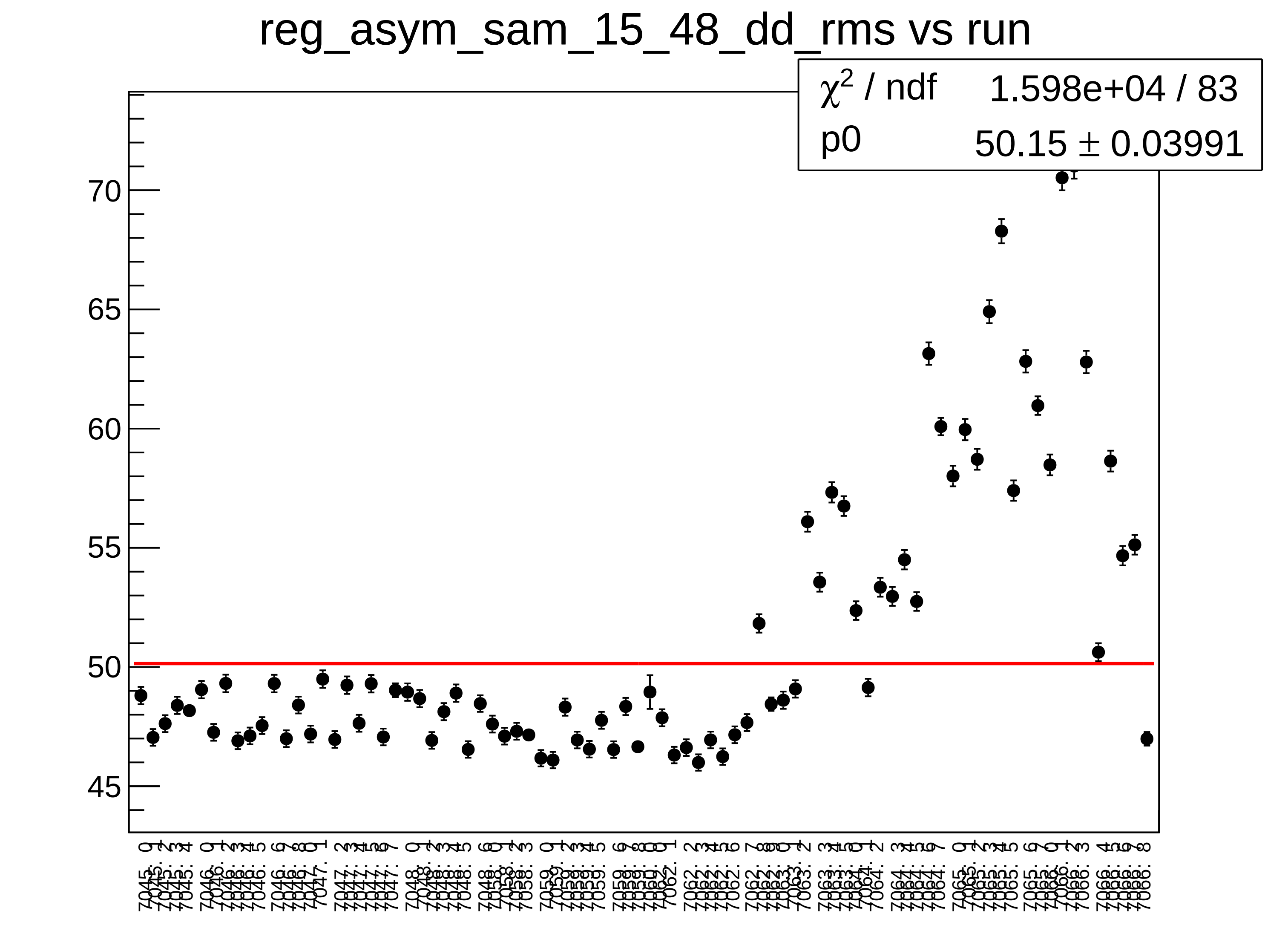

asym_sam_3726_avg_rms vs run
χ2 / ndf 7077 / 83
p0 585.3 ± 0.4646
680
660
640
620
600
580
560
540
520
500

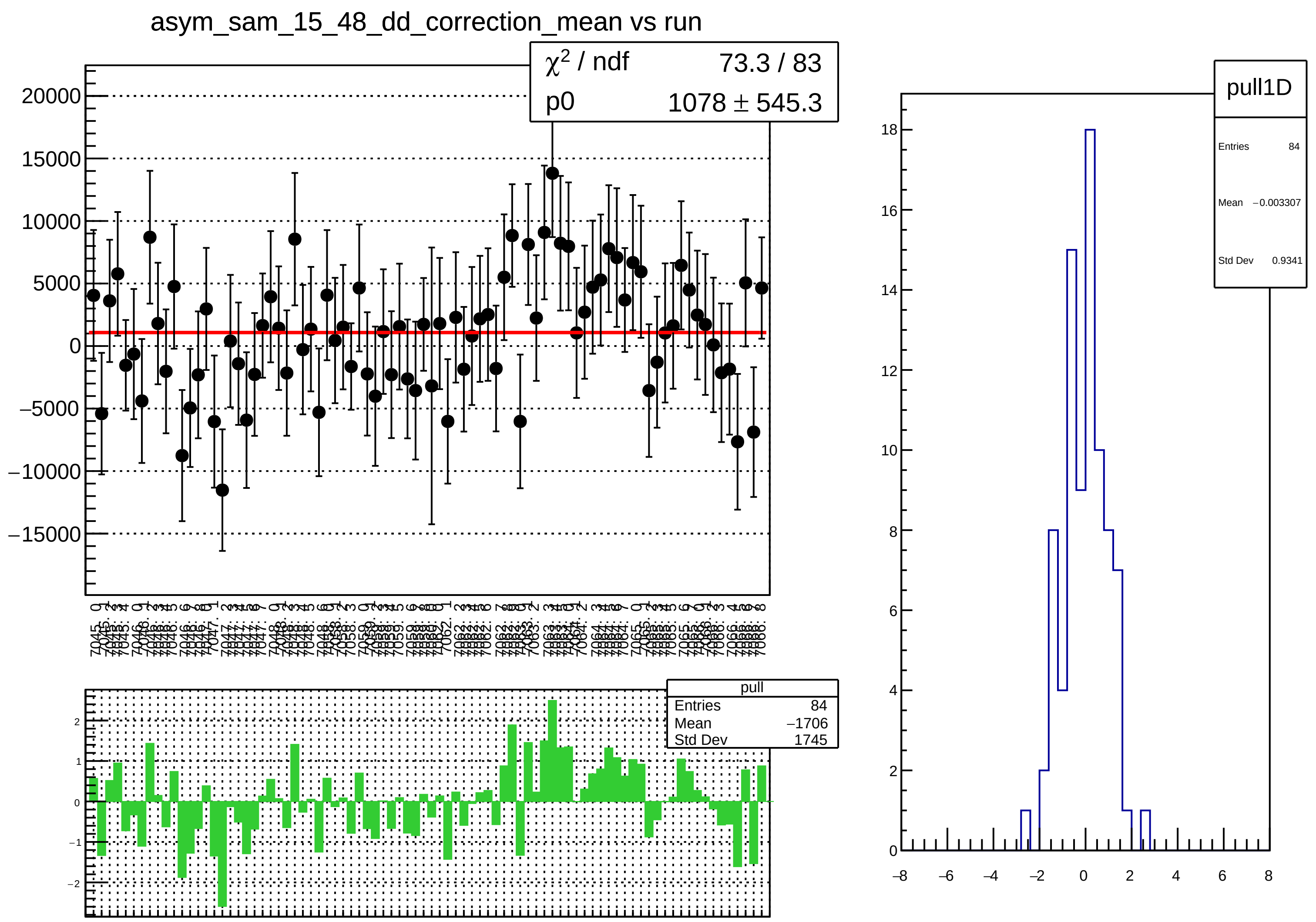


reg_asym_sam_15_48_dd_mean vs run
$\chi^2$ / ndf 103.1 / 83
p0 −33.56 ± 56.44
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 587.1
Std Dev 565.1

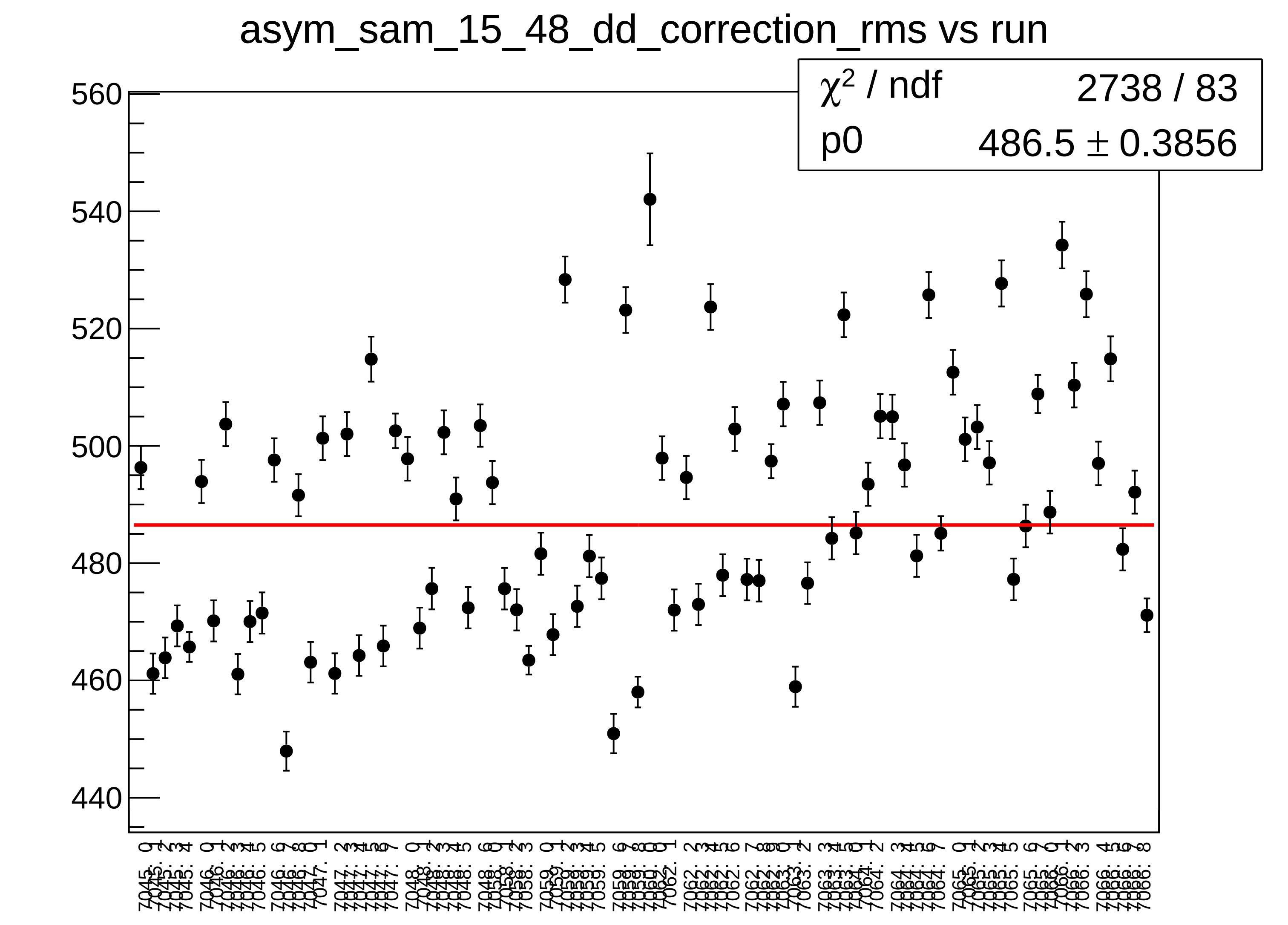



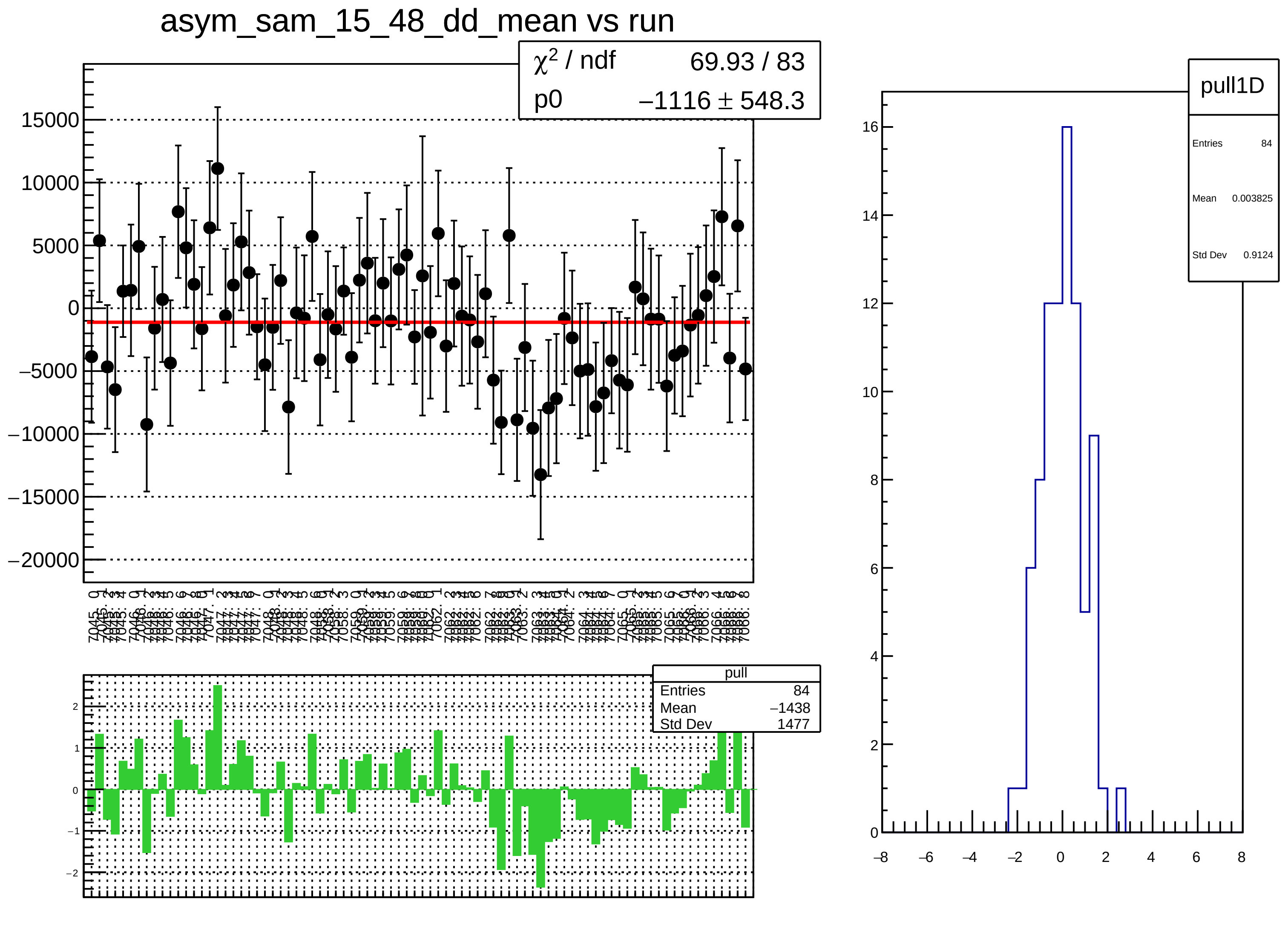
pull1D
Entries 84
Mean 0.00178
Std Dev 1.108


reg_asym_sam_15_48_dd_rms vs run
χ2 / ndf 1.598e+04 / 83
p0 50.15 ± 0.03991
70
65
60
55
50
45

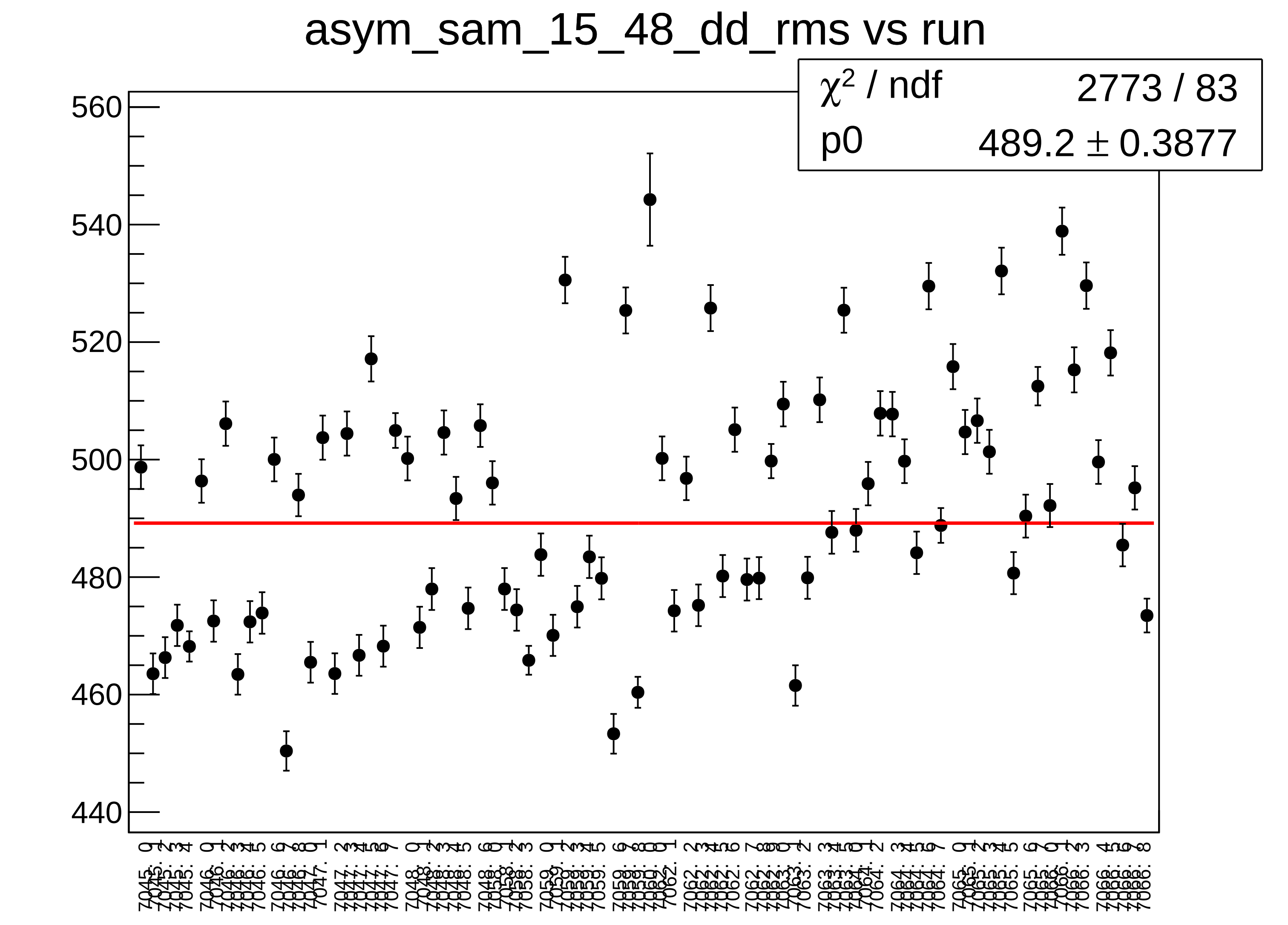


asym_sam_15_48_dd_correction_mean vs run
χ2 / ndf 73.3 / 83
p0 1078 ± 545.3
pull
Entries 84
Mean −1706
Std Dev 1745
pull1D
Entries 84
Mean −0.003307
Std Dev 0.9341

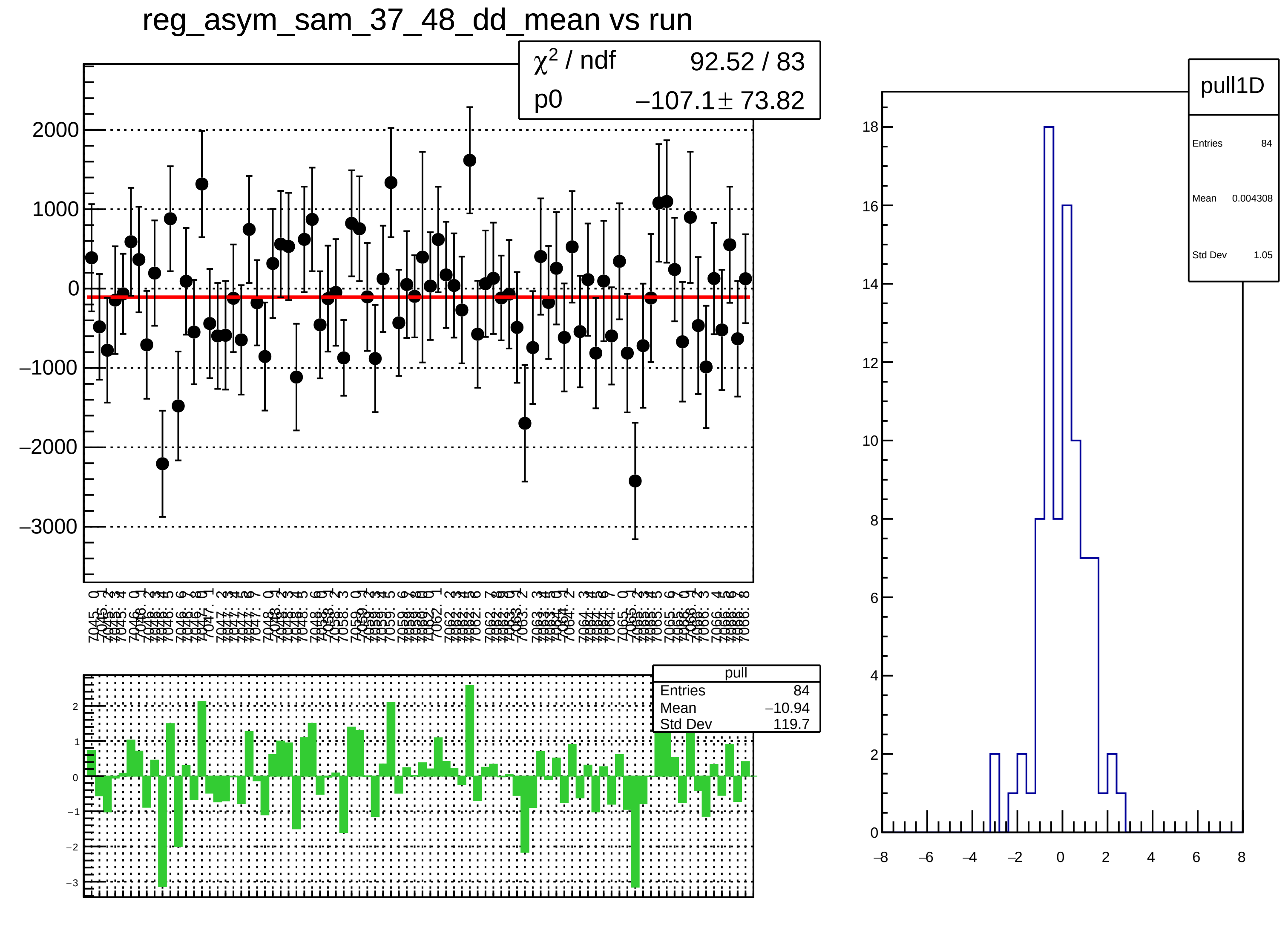

asym_sam_15_48_dd_correction_rms vs run
$\chi^2$ / ndf 2738 / 83
p0 486.5 ± 0.3856
560
540
520
500
480
460
440

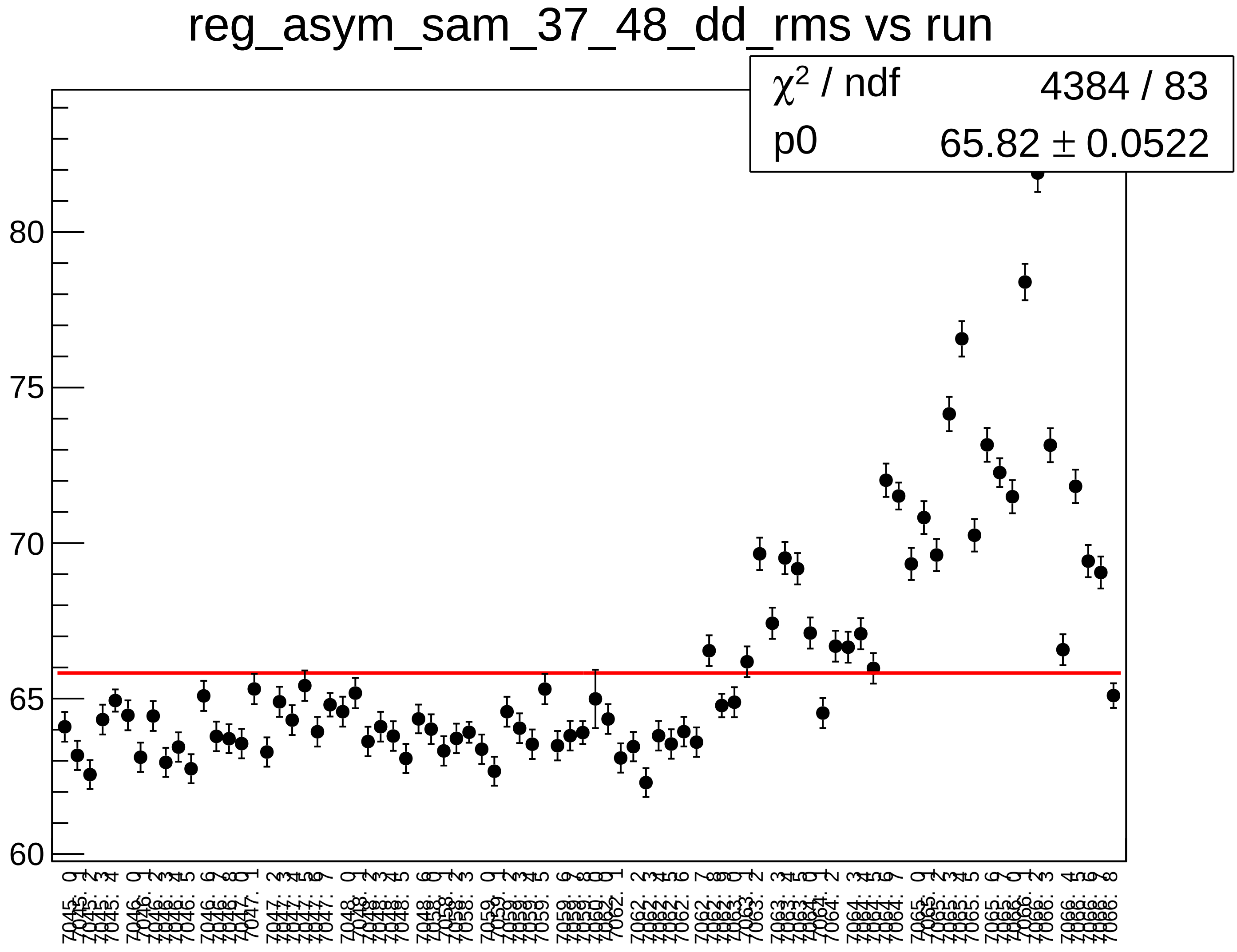


asym_sam_15_48_dd_mean vs run
χ2 / ndf 69.93 / 83
p0 −1116 ± 548.3
pull
Entries 84
Mean −1438
Std Dev 1477
pull1D
Entries 84
Mean 0.003825
Std Dev 0.9124

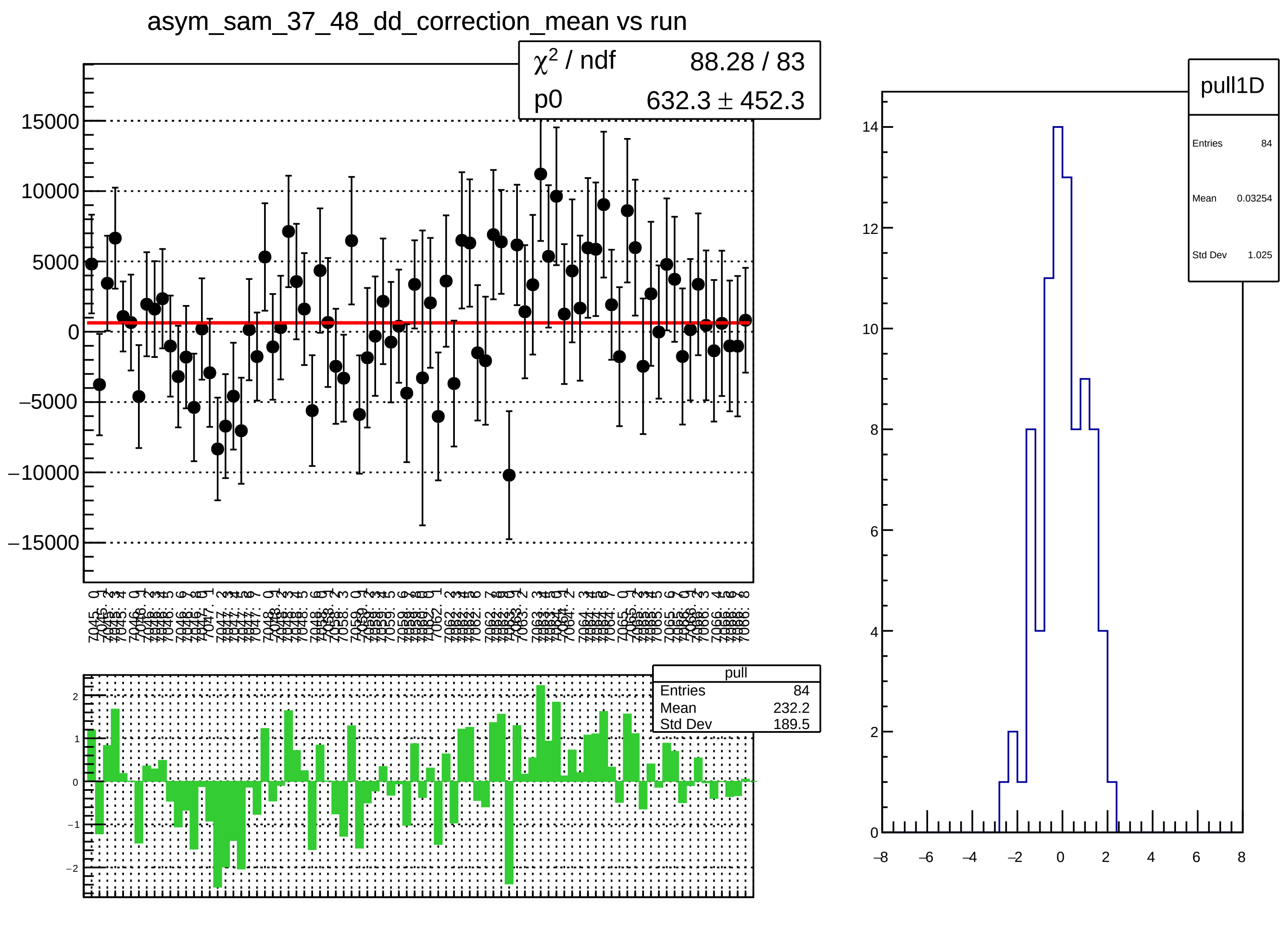


asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 2773 / 83
p0 489.2 ± 0.3877
560
540
520
500
480
460
440

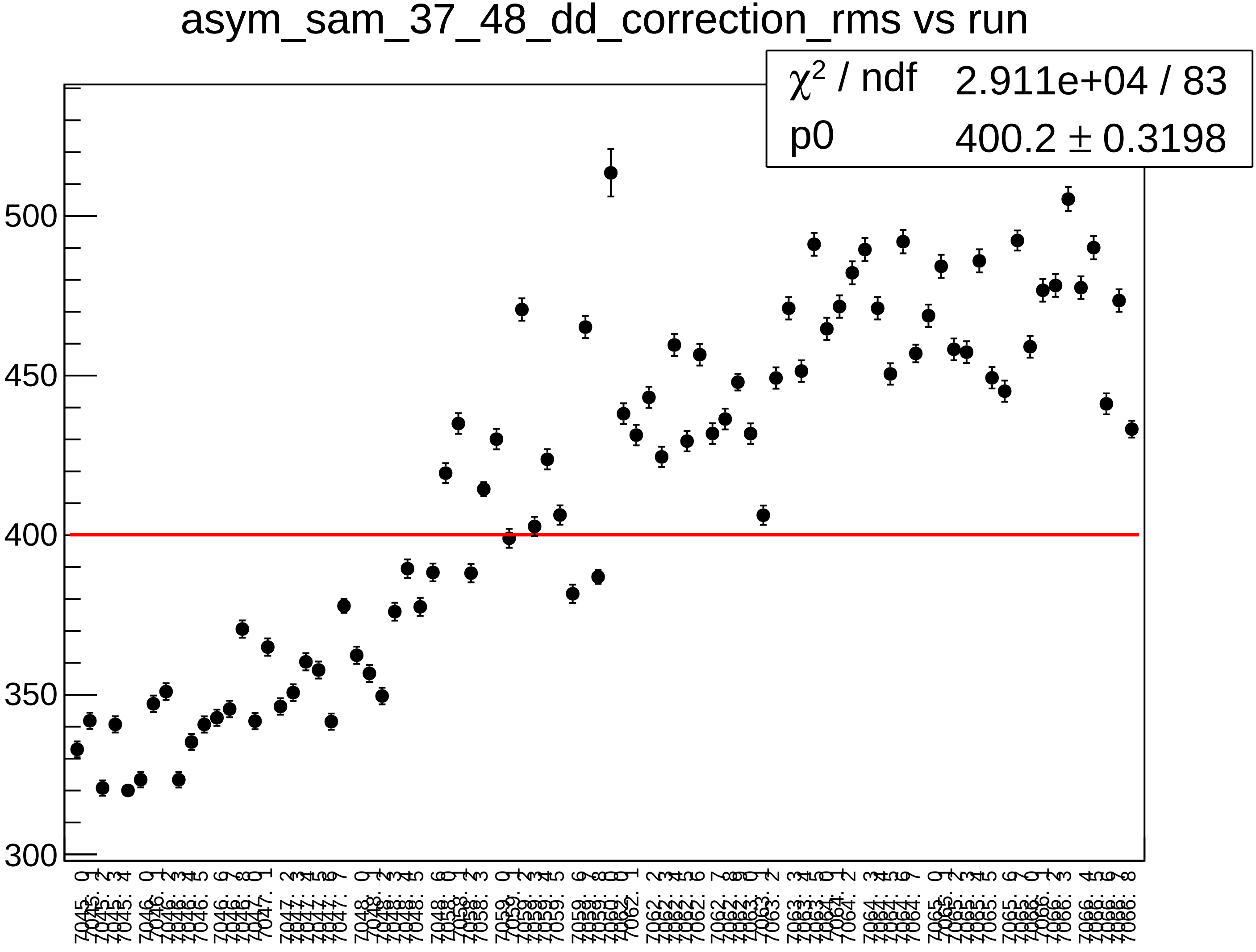

reg_asym_sam_37_48_dd_mean vs run
$\chi^2$ / ndf 92.52 / 83
p0 −107.1 ± 73.82
pull
Entries 84
Mean −10.94
Std Dev 119.7
pull1D
Entries 84
Mean 0.004308
Std Dev 1.05



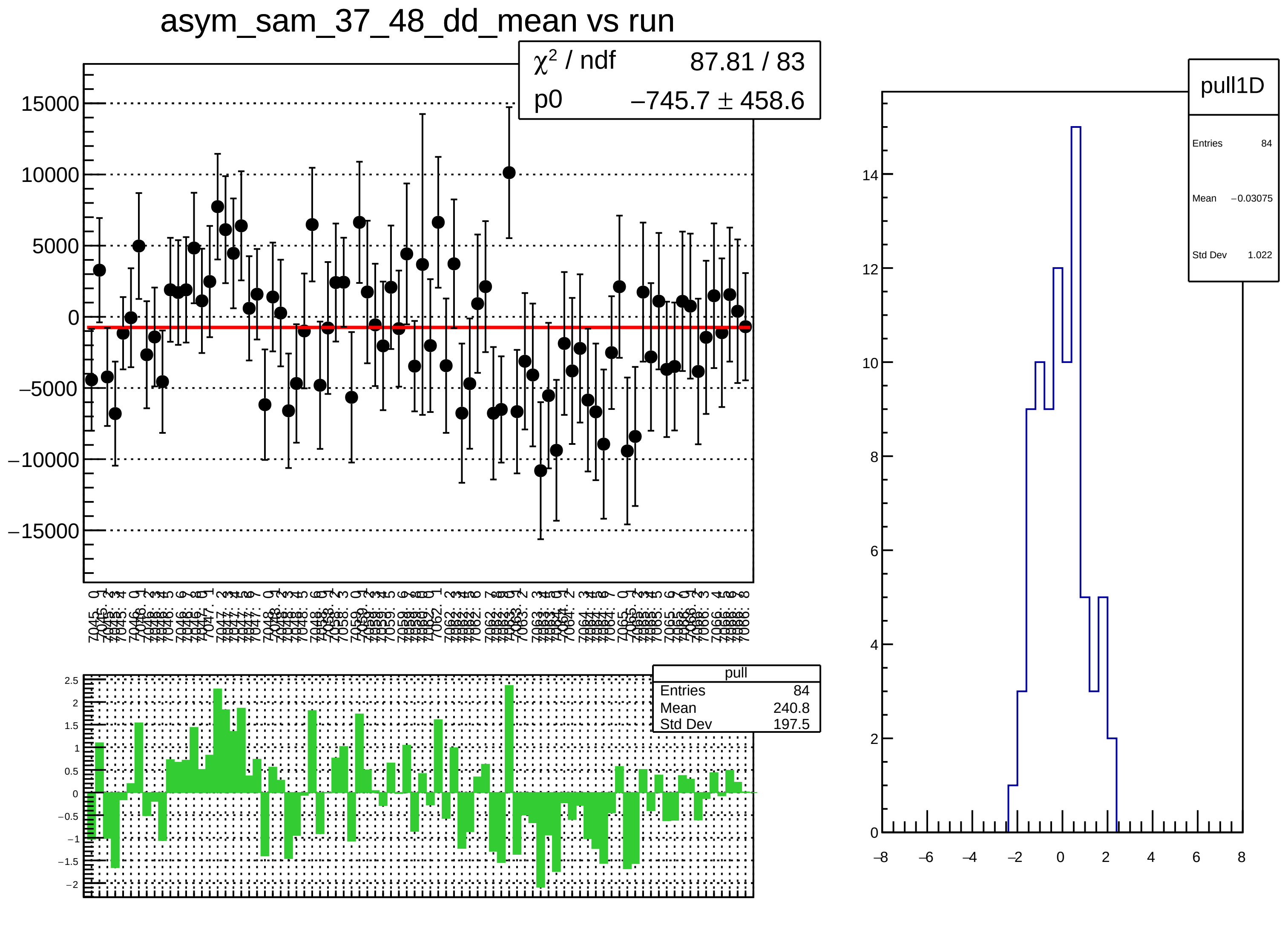
reg_asym_sam_37_48_dd_rms vs run
$\chi^2$ / ndf 4384 / 83
p0 65.82 ± 0.0522
60
65
70
75
80



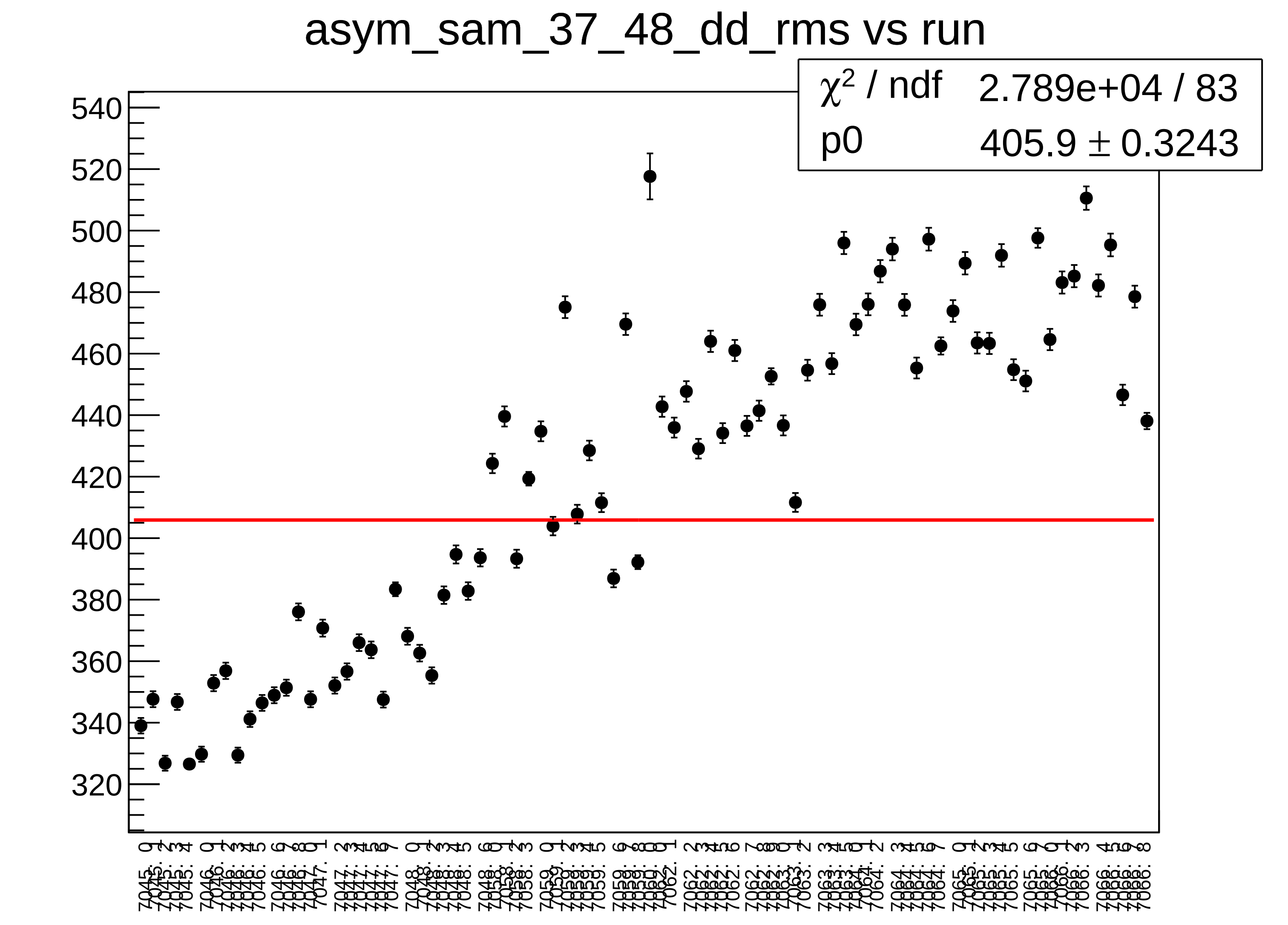
asym_sam_37_48_dd_correction_mean vs run
$\chi^2$ / ndf 88.28 / 83
p0 632.3 ± 452.3
pull
Entries 84
Mean 232.2
Std Dev 189.5
pull1D
Entries 84
Mean 0.03254
Std Dev 1.025



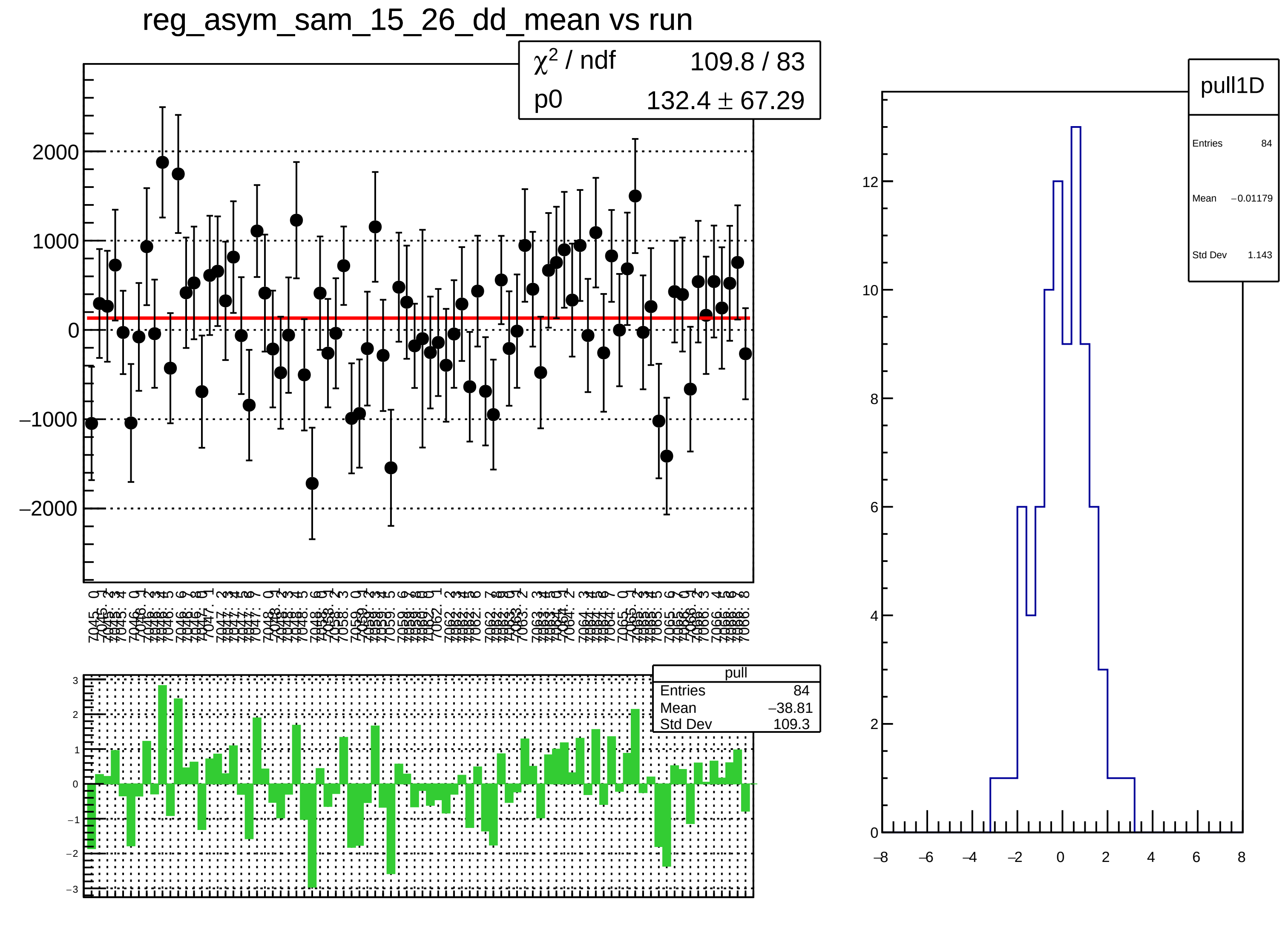
asym_sam_37_48_dd_correction_rms vs run
$\chi^2$ / ndf 2.911e+04 / 83
p0 400.2 ± 0.3198
500
450
400
350
300



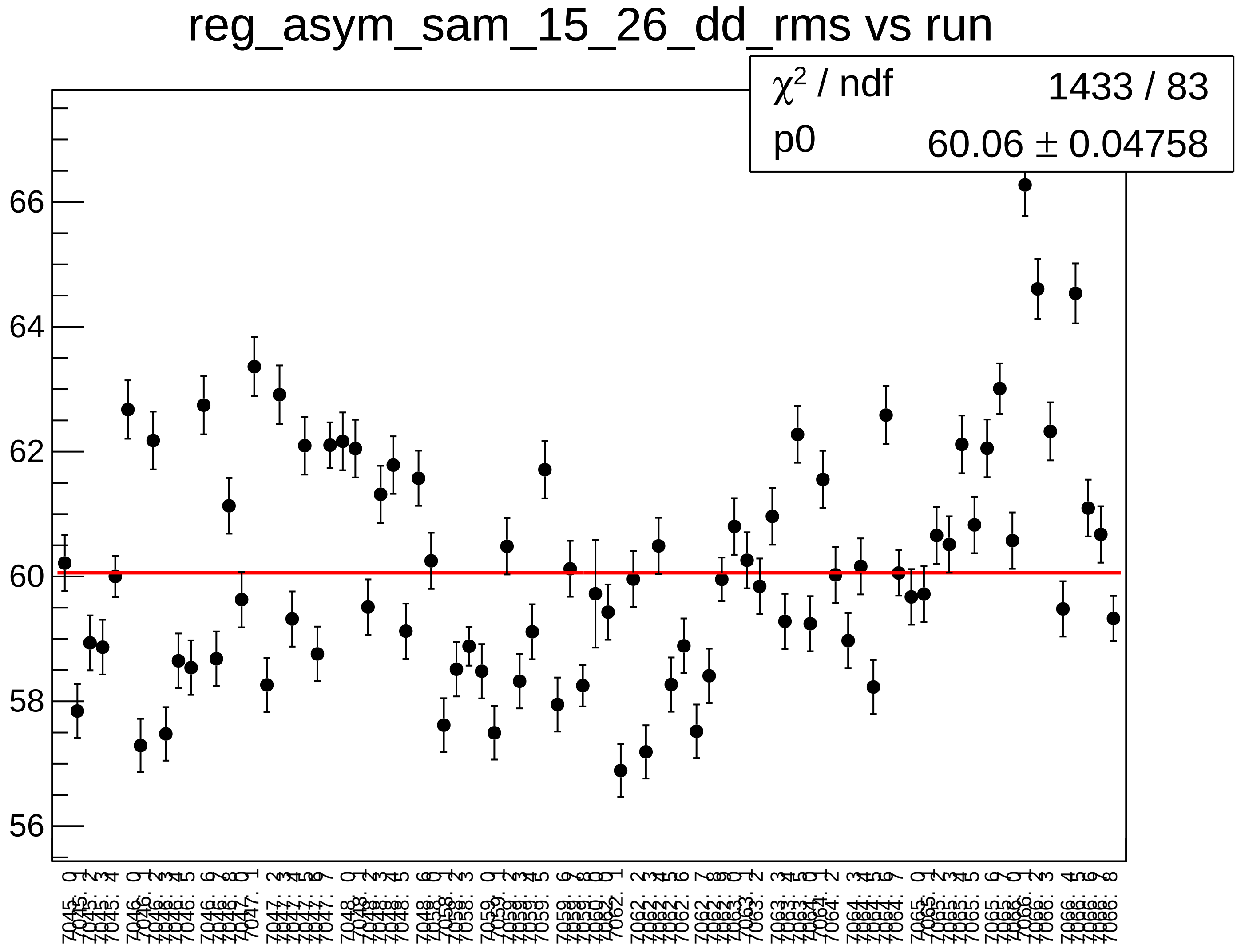
asym_sam_37_48_dd_mean vs run
$\chi^2$ / ndf 87.81 / 83
p0 −745.7 ± 458.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 240.8
Std Dev 197.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.03075
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



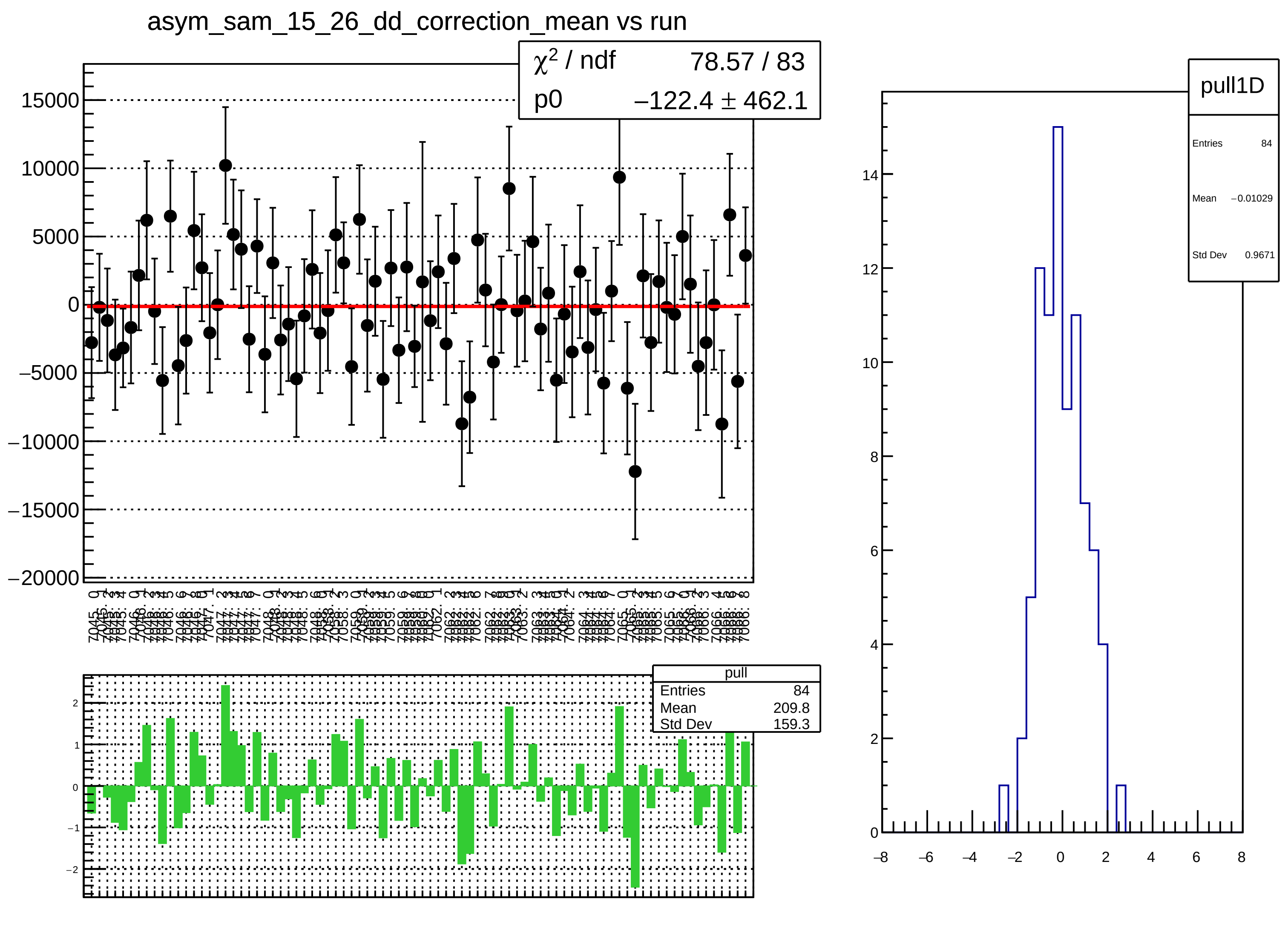
asym_sam_37_48_dd_rms vs run
$\chi^2$ / ndf 2.789e+04 / 83
p0 405.9 ± 0.3243
540
520
500
480
460
440
420
400
380
360
340
320

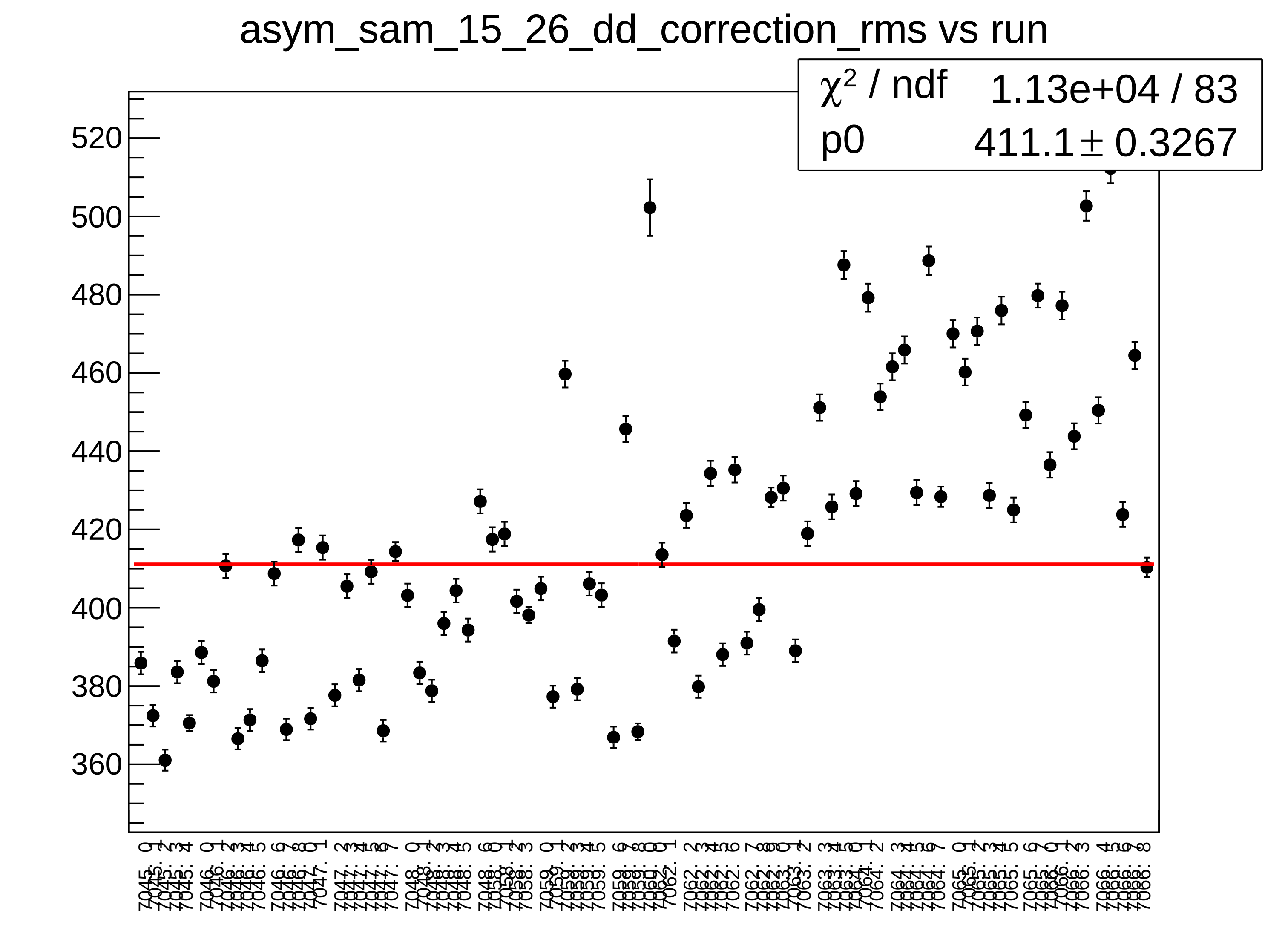


reg_asym_sam_15_26_dd_mean vs run
χ2 / ndf 109.8 / 83
p0 132.4 ± 67.29
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −38.81
Std Dev 109.3
pull1D
Entries 84
Mean −0.01179
Std Dev 1.143

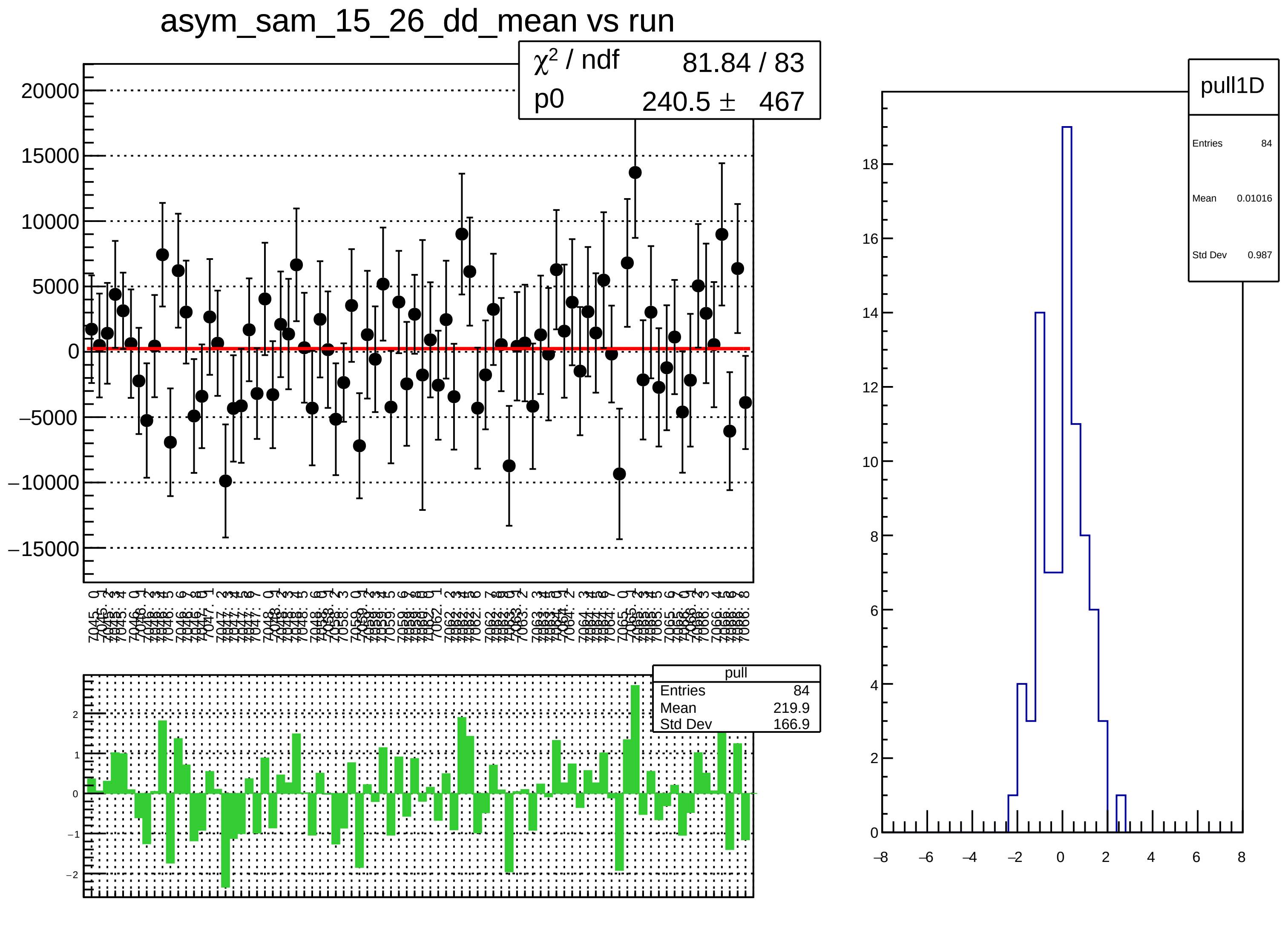


reg_asym_sam_15_26_dd_rms vs run
χ2 / ndf 1433 / 83
p0 60.06 ± 0.04758
66
64
62
60
58
56

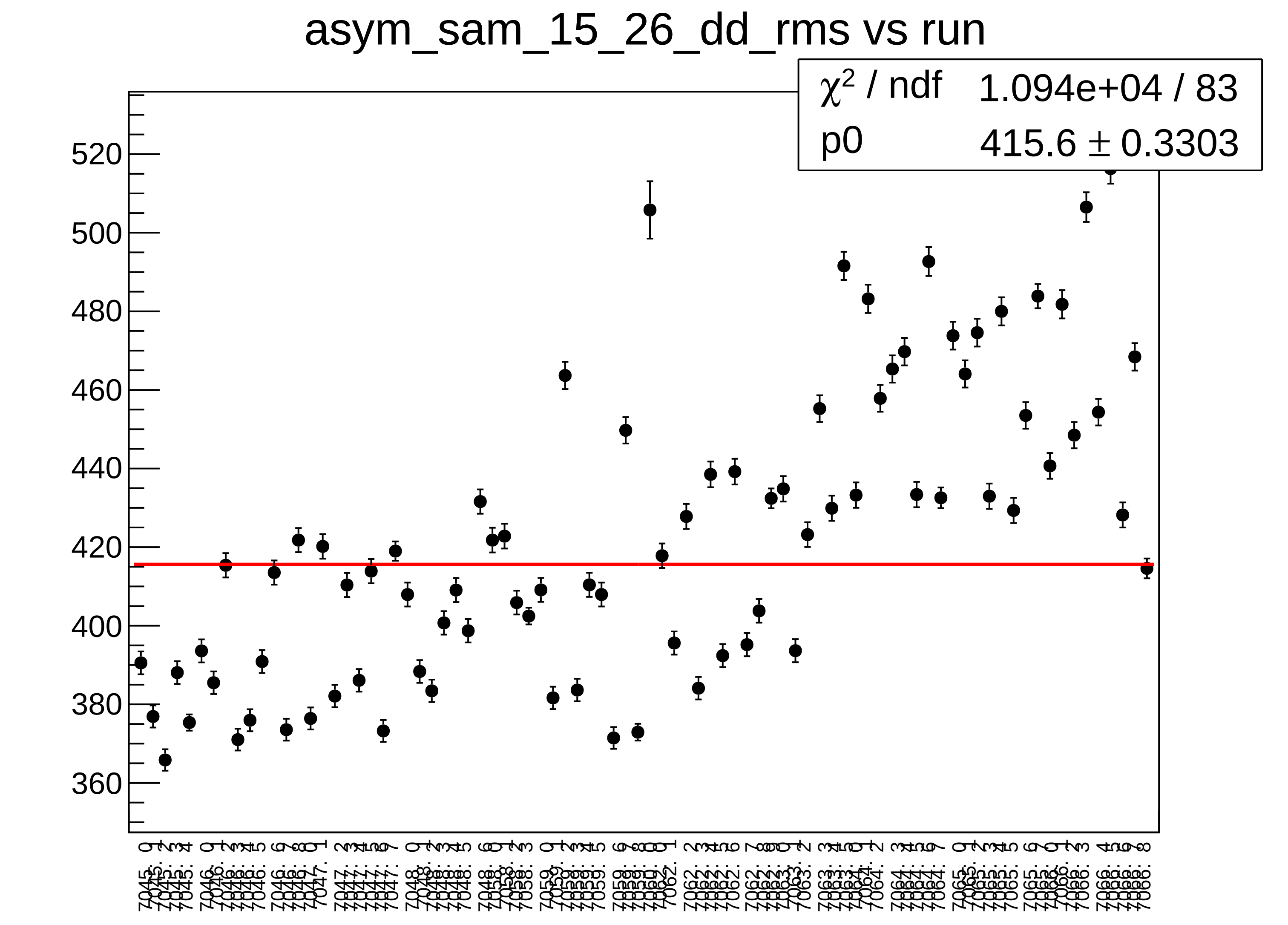

asym_sam_15_26_dd_correction_mean vs run
$\chi^2$ / ndf 78.57 / 83
p0 −122.4 ± 462.1
pull
Entries 84
Mean 209.8
Std Dev 159.3
pull1D
Entries 84
Mean −0.01029
Std Dev 0.9671

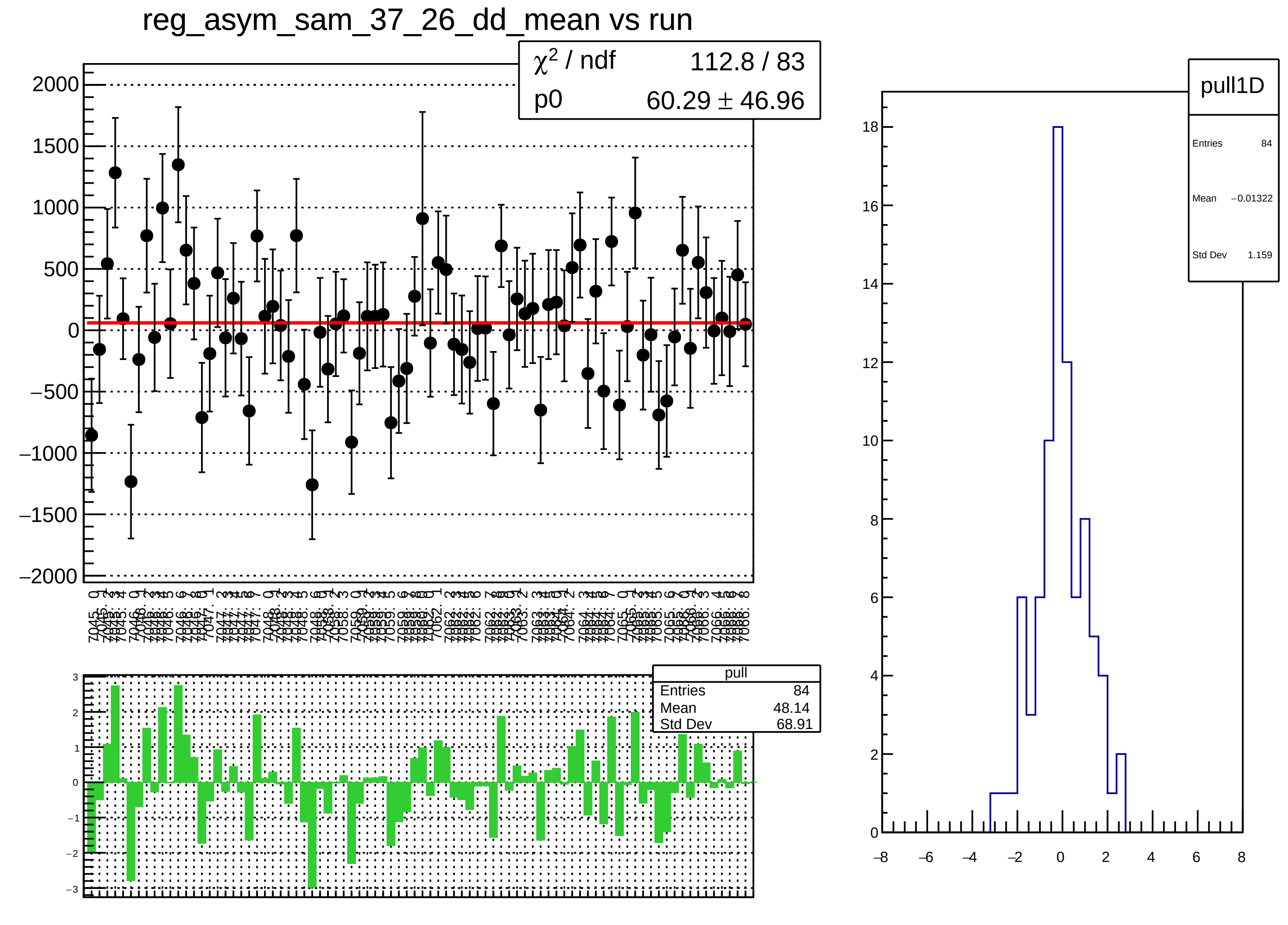


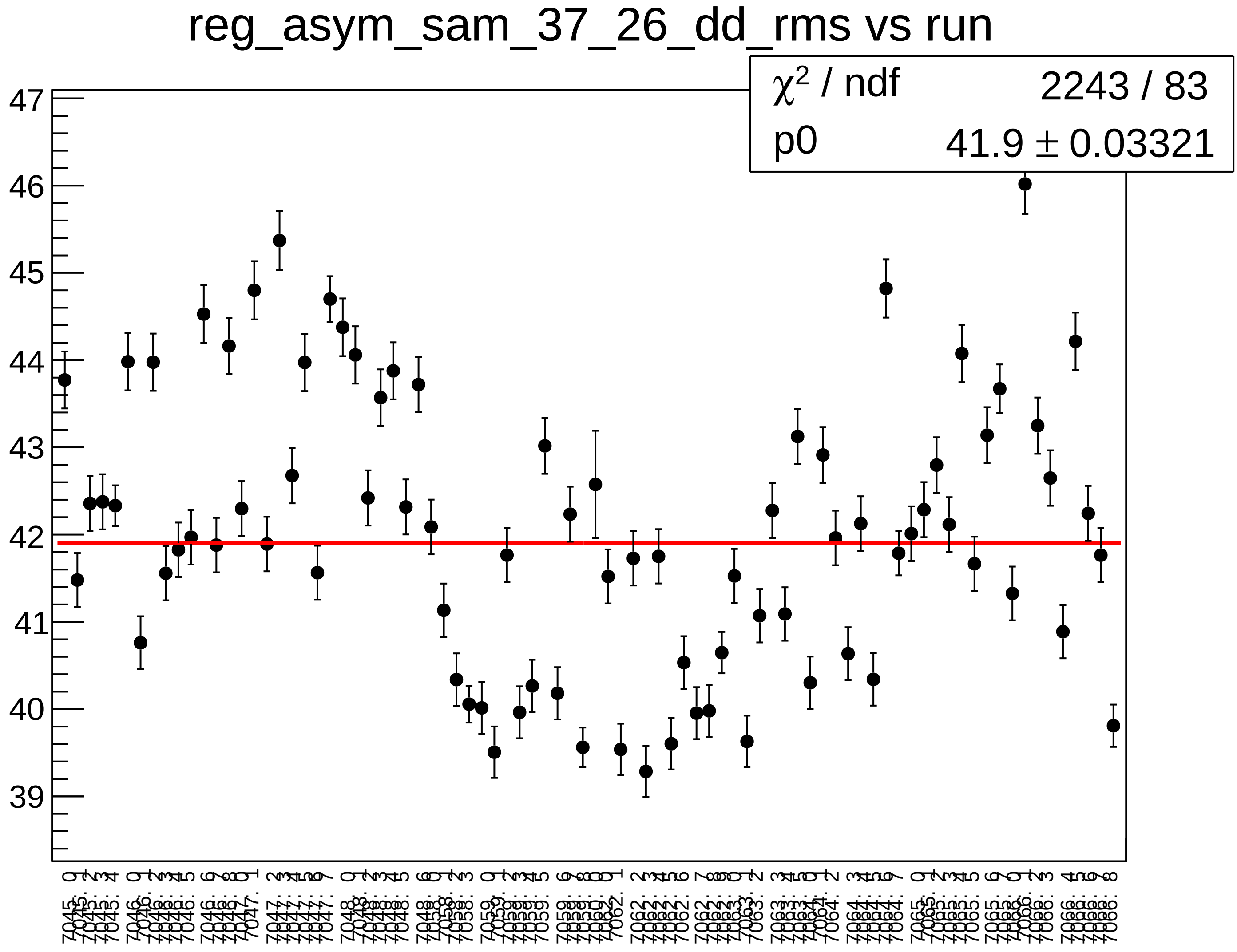
asym_sam_15_26_dd_correction_rms vs run
$\chi^2$ / ndf 1.13e+04 / 83
p0 411.1 ± 0.3267
520
500
480
460
440
420
400
380
360



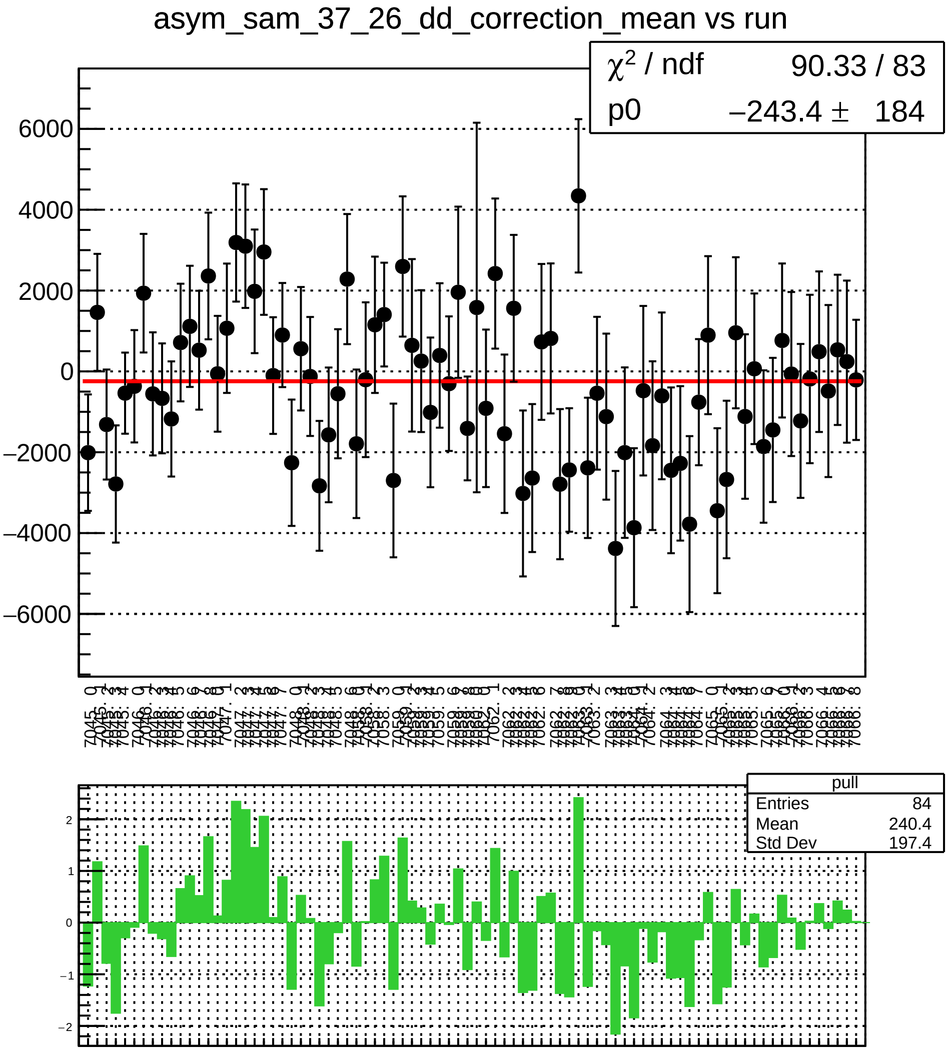
asym_sam_15_26_dd_mean vs run
$\chi^2$ / ndf 81.84 / 83
p0 240.5 ± 467
pull
Entries 84
Mean 219.9
Std Dev 166.9
pull1D
Entries 84
Mean 0.01016
Std Dev 0.987

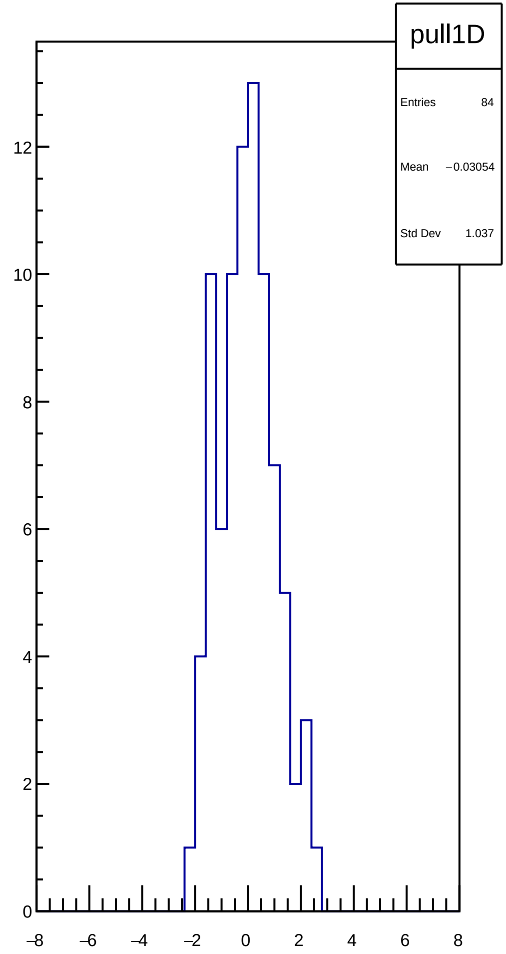

asym_sam_15_26_dd_rms vs run
$\chi^2$ / ndf 1.094e+04 / 83
p0 415.6 ± 0.3303
520
500
480
460
440
420
400
380
360

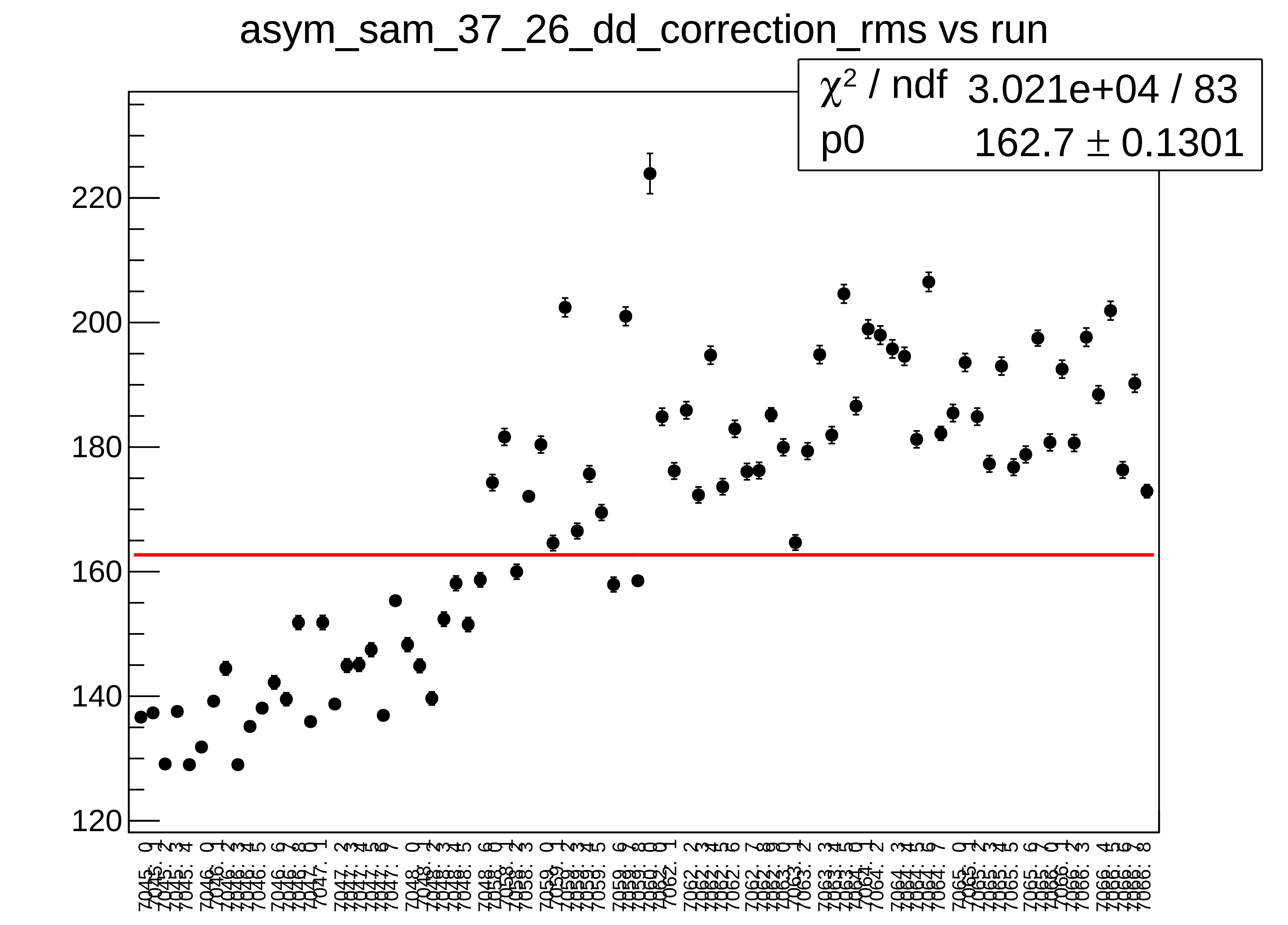

reg_asym_sam_37_26_dd_mean vs run
χ2 / ndf 112.8 / 83
p0 60.29 ± 46.96
pull
Entries 84
Mean 48.14
Std Dev 68.91
pull1D
Entries 84
Mean −0.01322
Std Dev 1.159



reg_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 2243 / 83
p0 41.9 ± 0.03321
47
46
45
44
43
42
41
40
39

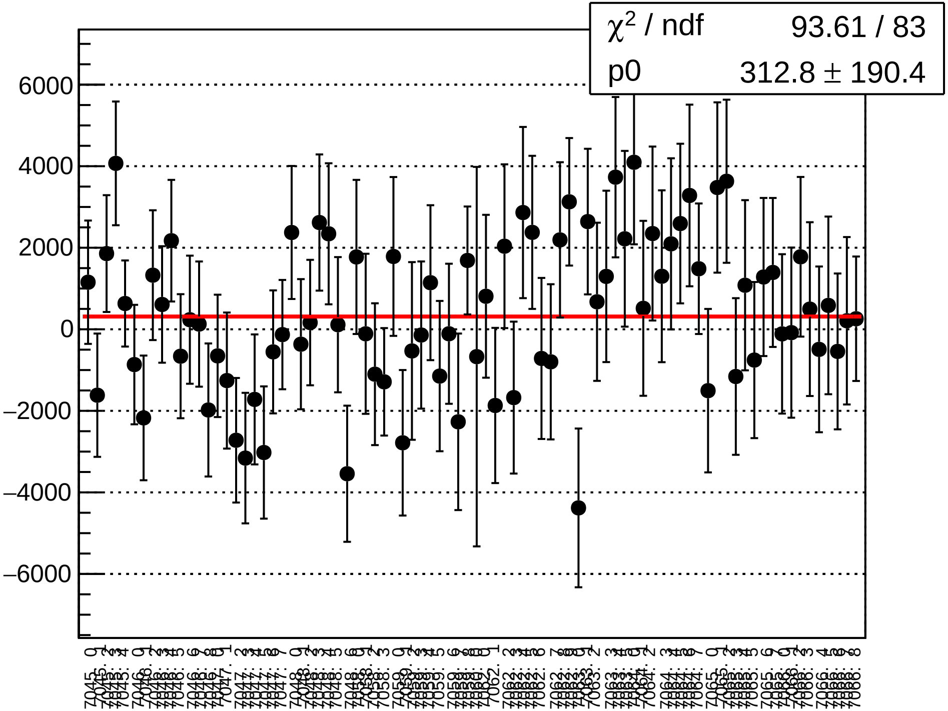

asym_sam_37_26_dd_correction_mean vs run
χ2 / ndf 90.33 / 83
p0 −243.4 ± 184
pull
Entries 84
Mean 240.4
Std Dev 197.4

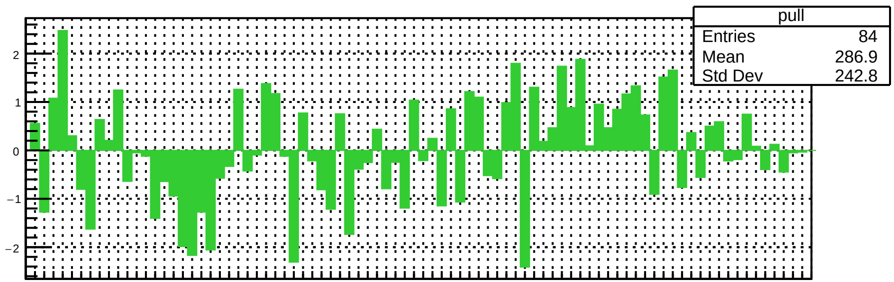

pull1D
Entries 84
Mean −0.03054
Std Dev 1.037

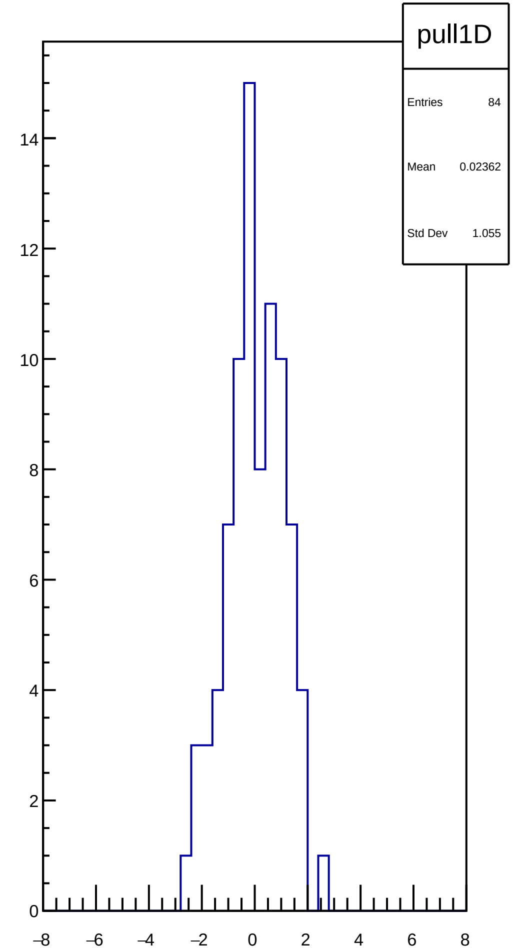


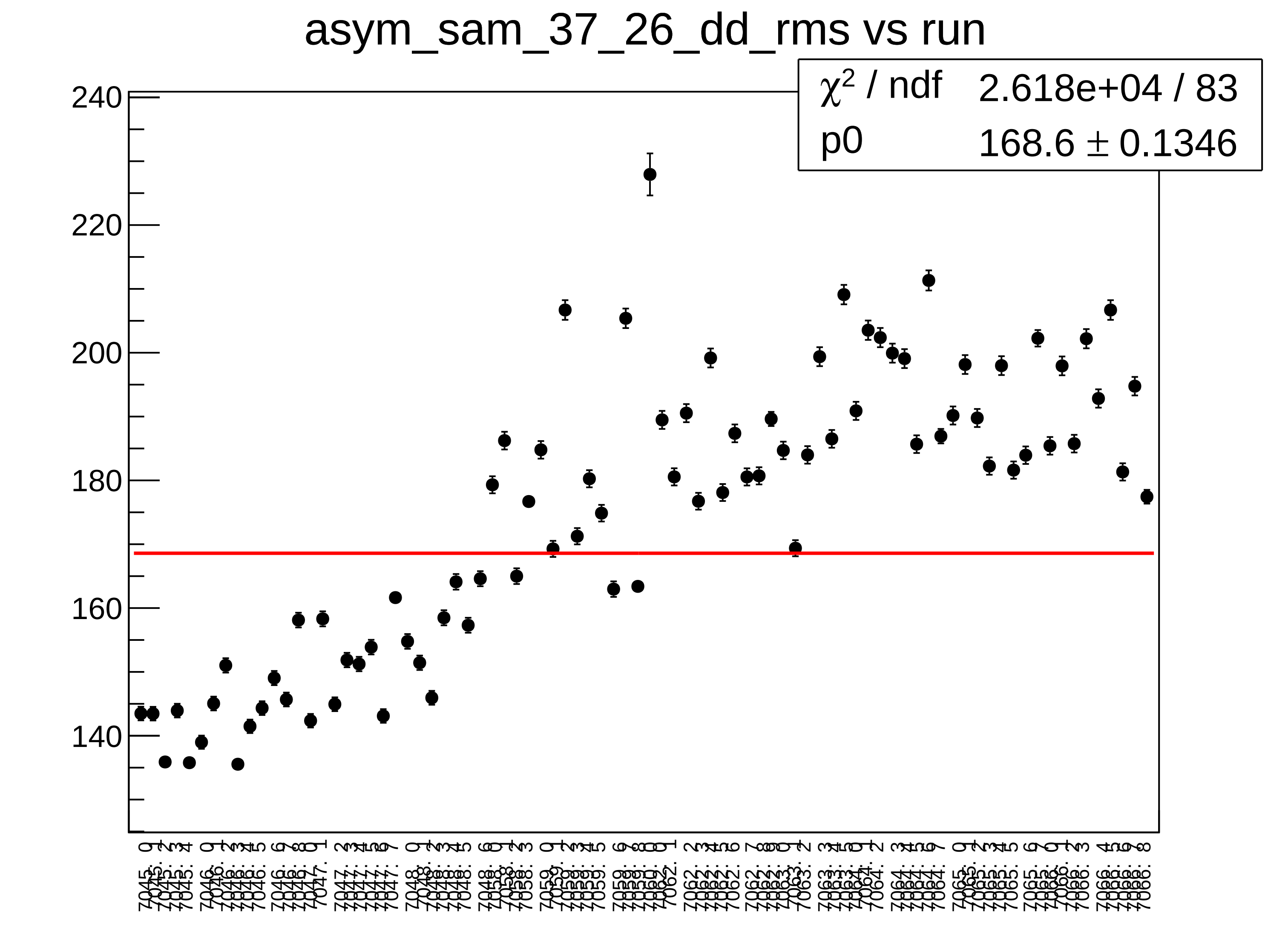
asym_sam_37_26_dd_correction_rms vs run
$\chi^2$ / ndf 3.021e+04 / 83
p0 162.7 ± 0.1301
220
200
180
160
140
120

# asym_sam_37_26_dd_mean vs run

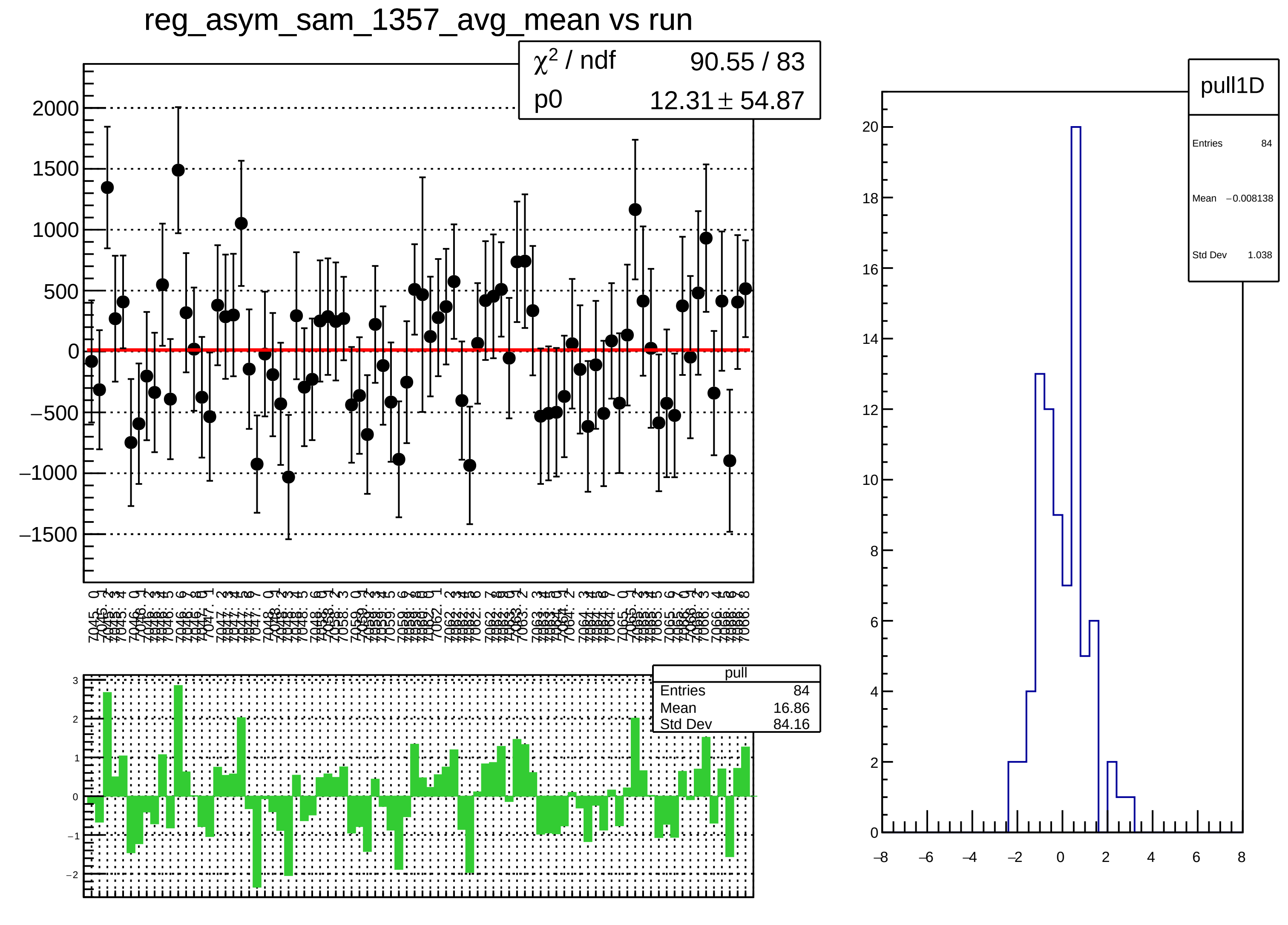


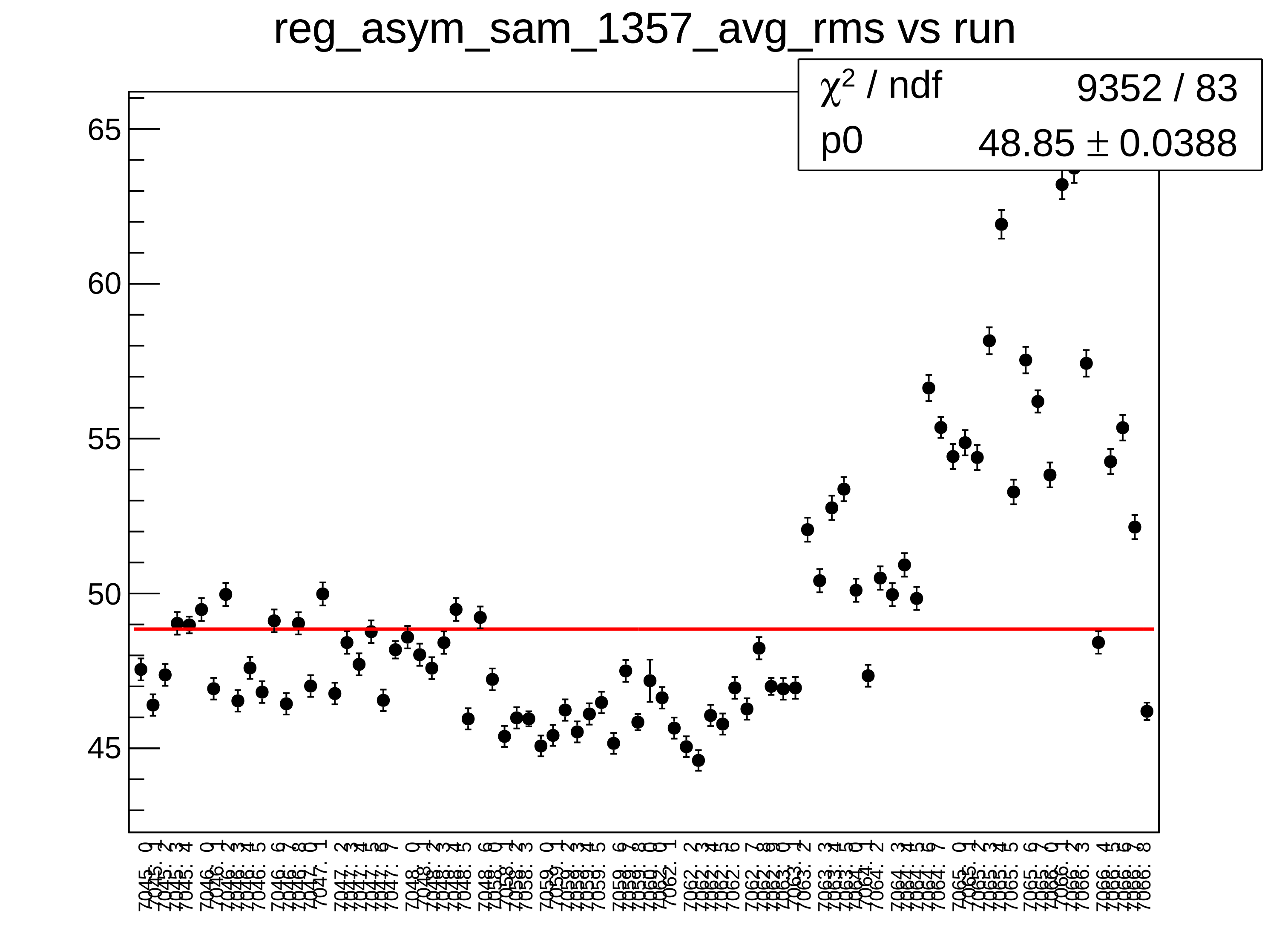



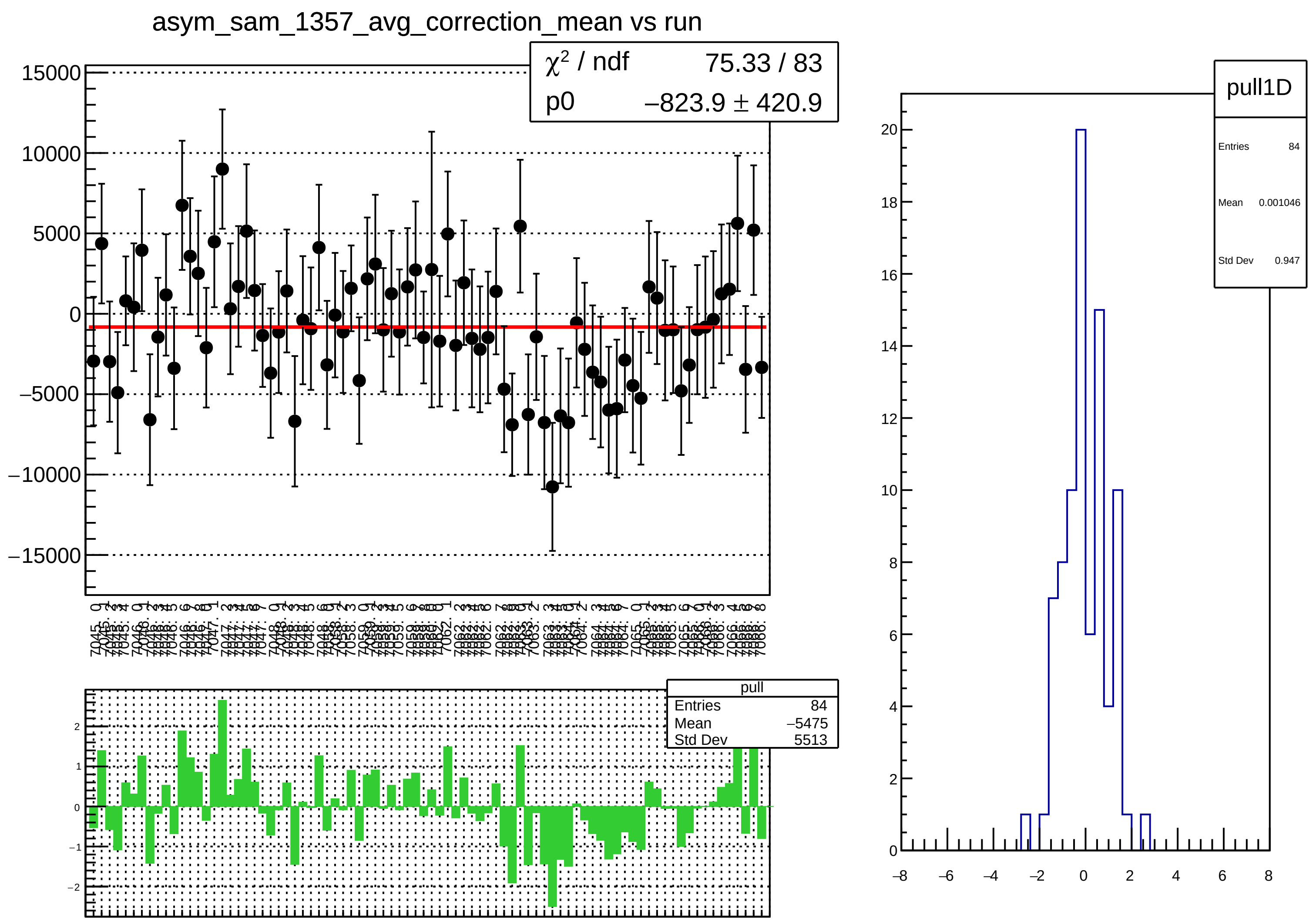


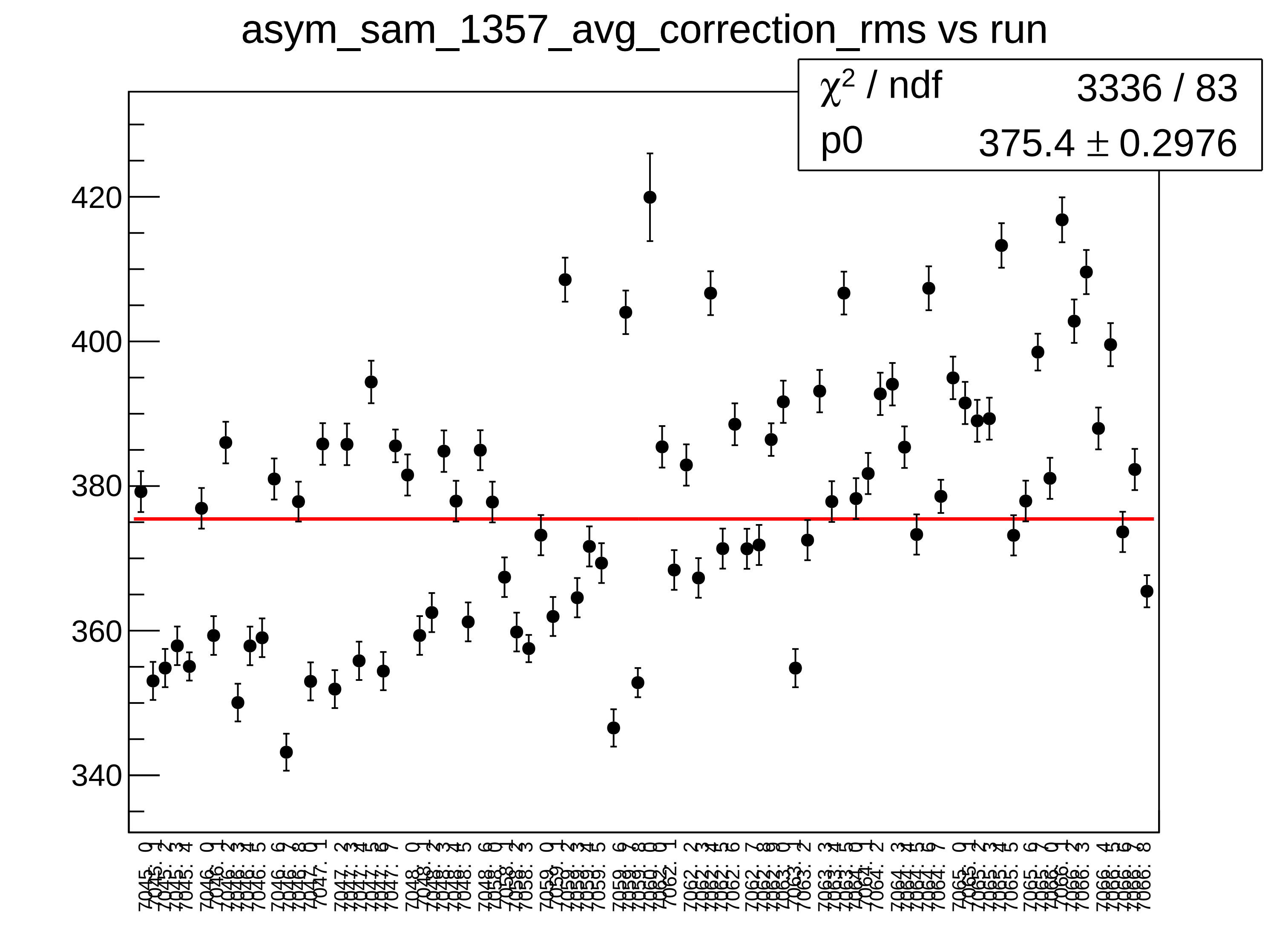
asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 2.618e+04 / 83
p0 168.6 ± 0.1346
240
220
200
180
160
140

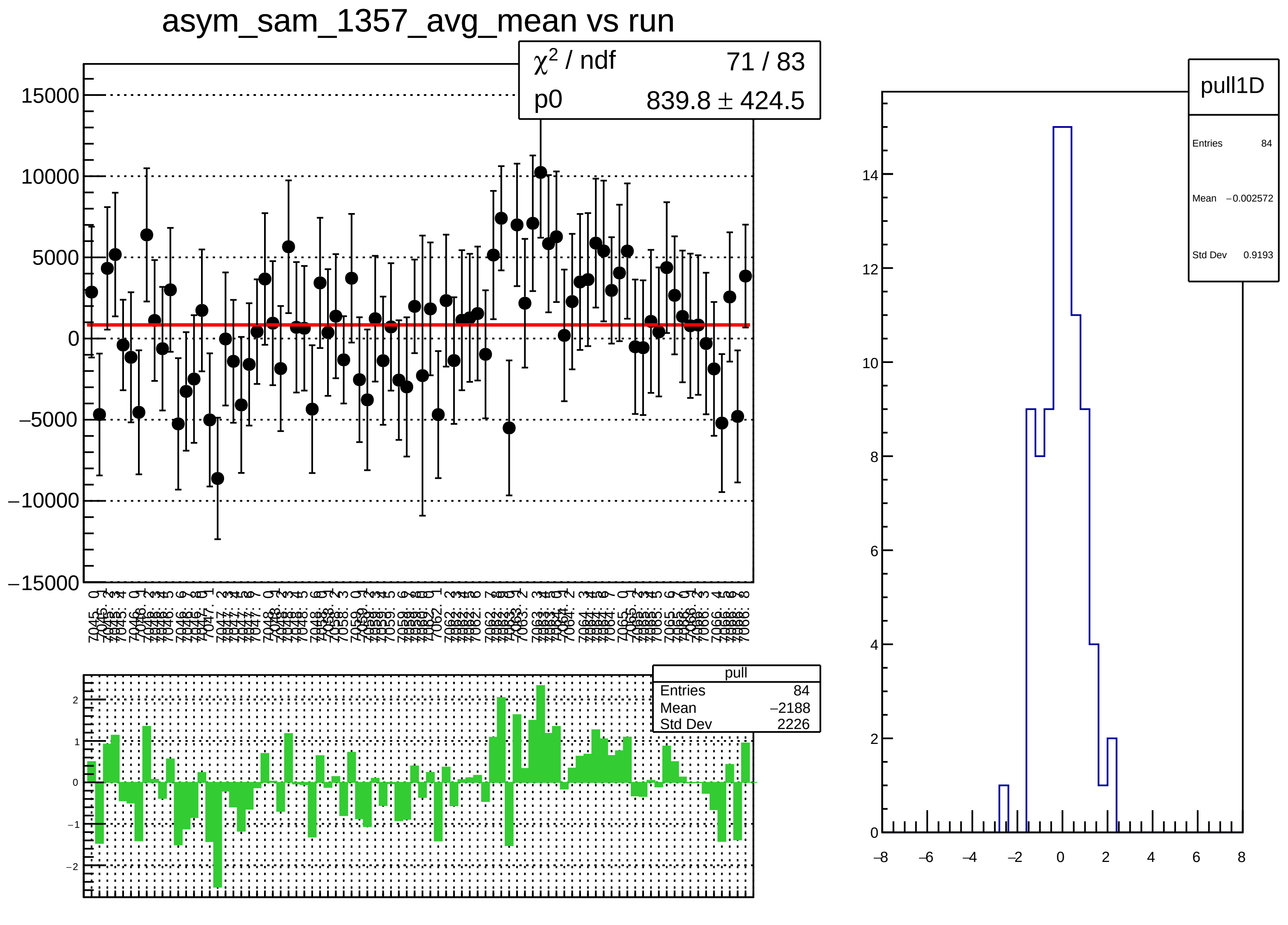

reg_asym_sam_1357_avg_mean vs run
$\chi^2$ / ndf 90.55 / 83
p0 12.31 ± 54.87
pull
Entries 84
Mean 16.86
Std Dev 84.16
pull1D
Entries 84
Mean −0.008138
Std Dev 1.038

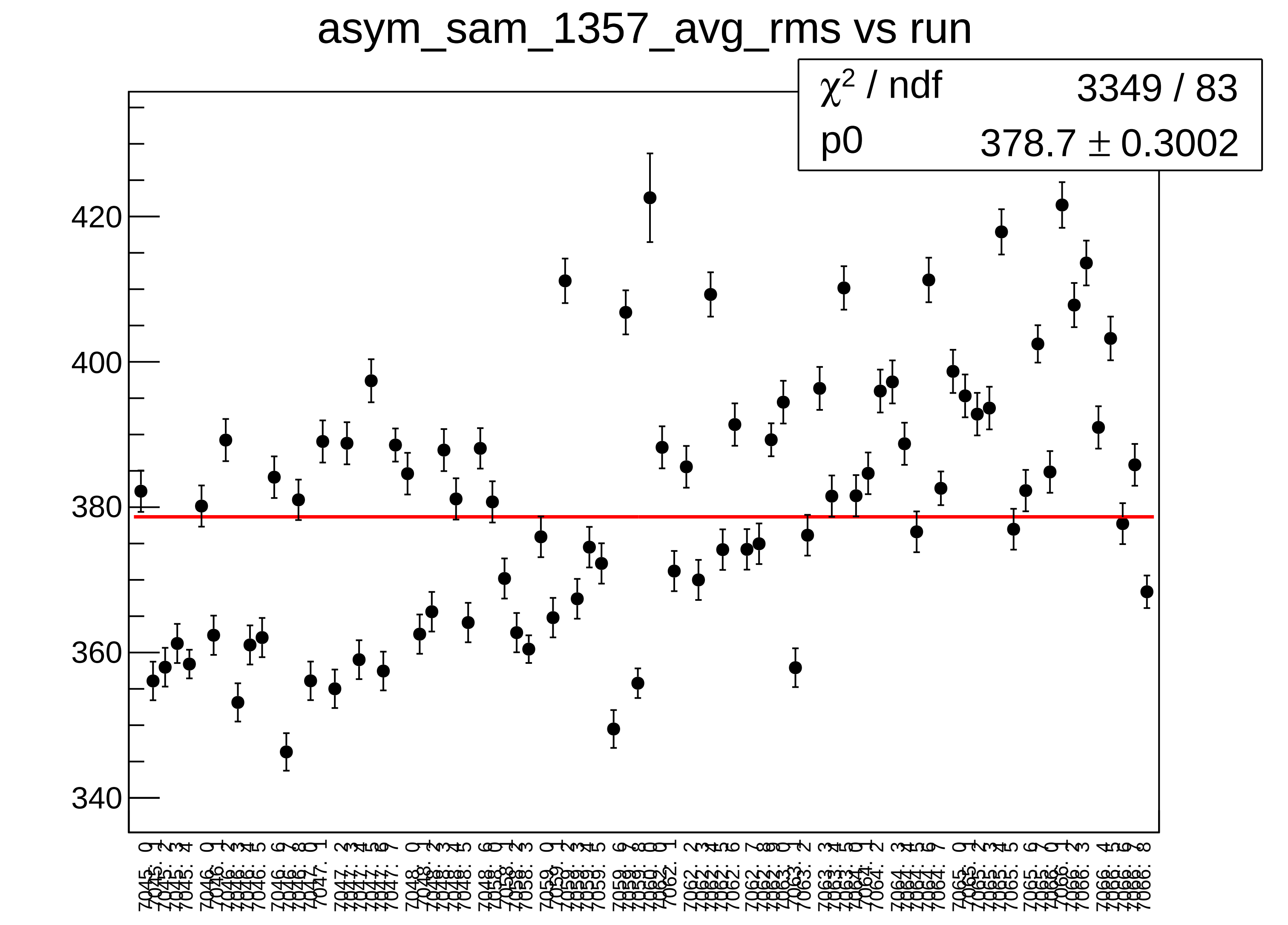


reg_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 9352 / 83
p0 48.85 ± 0.0388

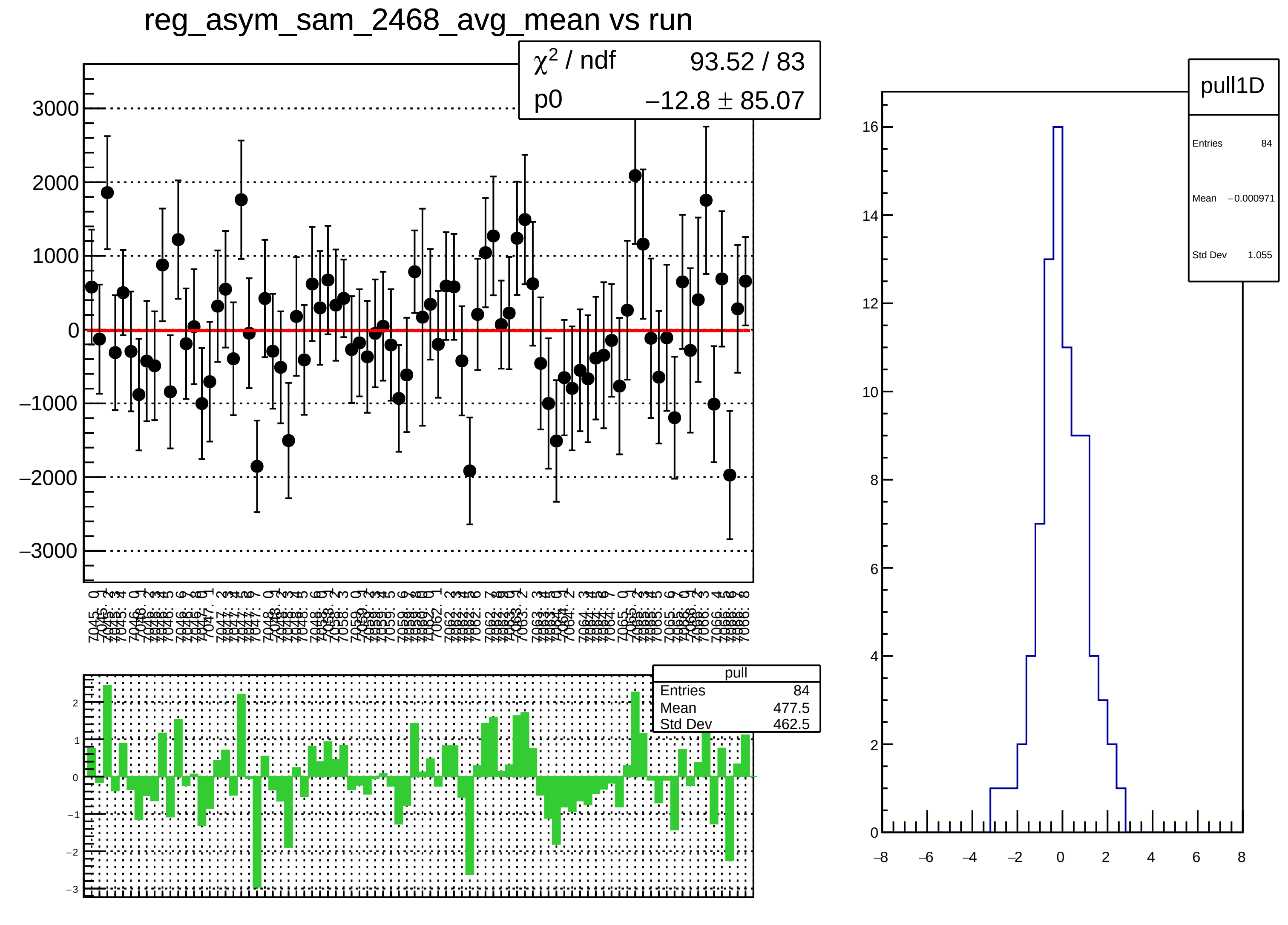

asym_sam_1357_avg_correction_mean vs run
$\chi^2$ / ndf 75.33 / 83
p0 −823.9 ± 420.9
pull
Entries 84
Mean −5475
Std Dev 5513
pull1D
Entries 84
Mean 0.001046
Std Dev 0.947

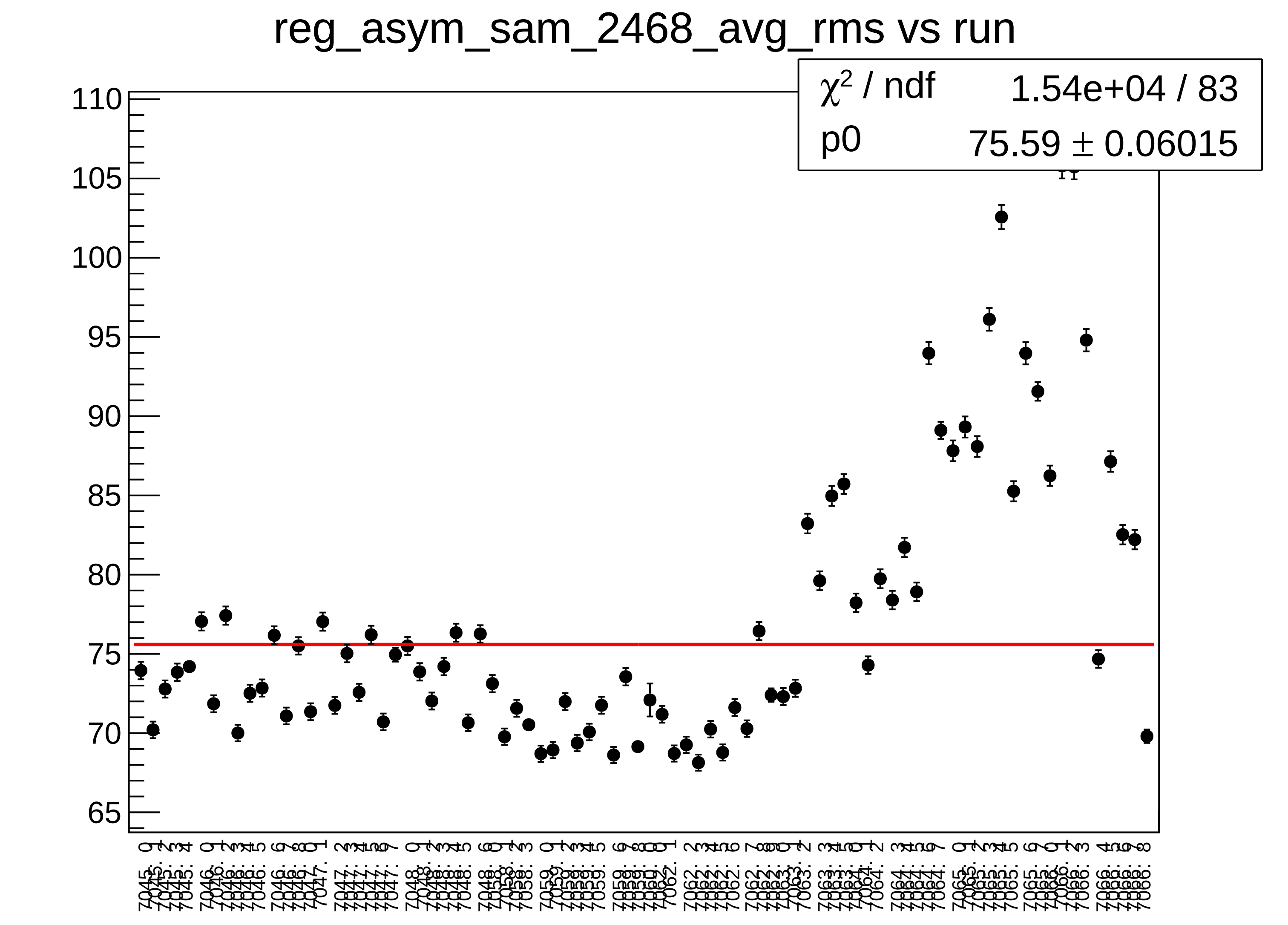

asym_sam_1357_avg_correction_rms vs run
χ2 / ndf 3336 / 83
p0 375.4 ± 0.2976
420
400
380
360
340


asym_sam_1357_avg_mean vs run
$\chi^2$ / ndf 71 / 83
p0 839.8 ± 424.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −2188
Std Dev 2226
pull1D
Entries 84
Mean −0.002572
Std Dev 0.9193

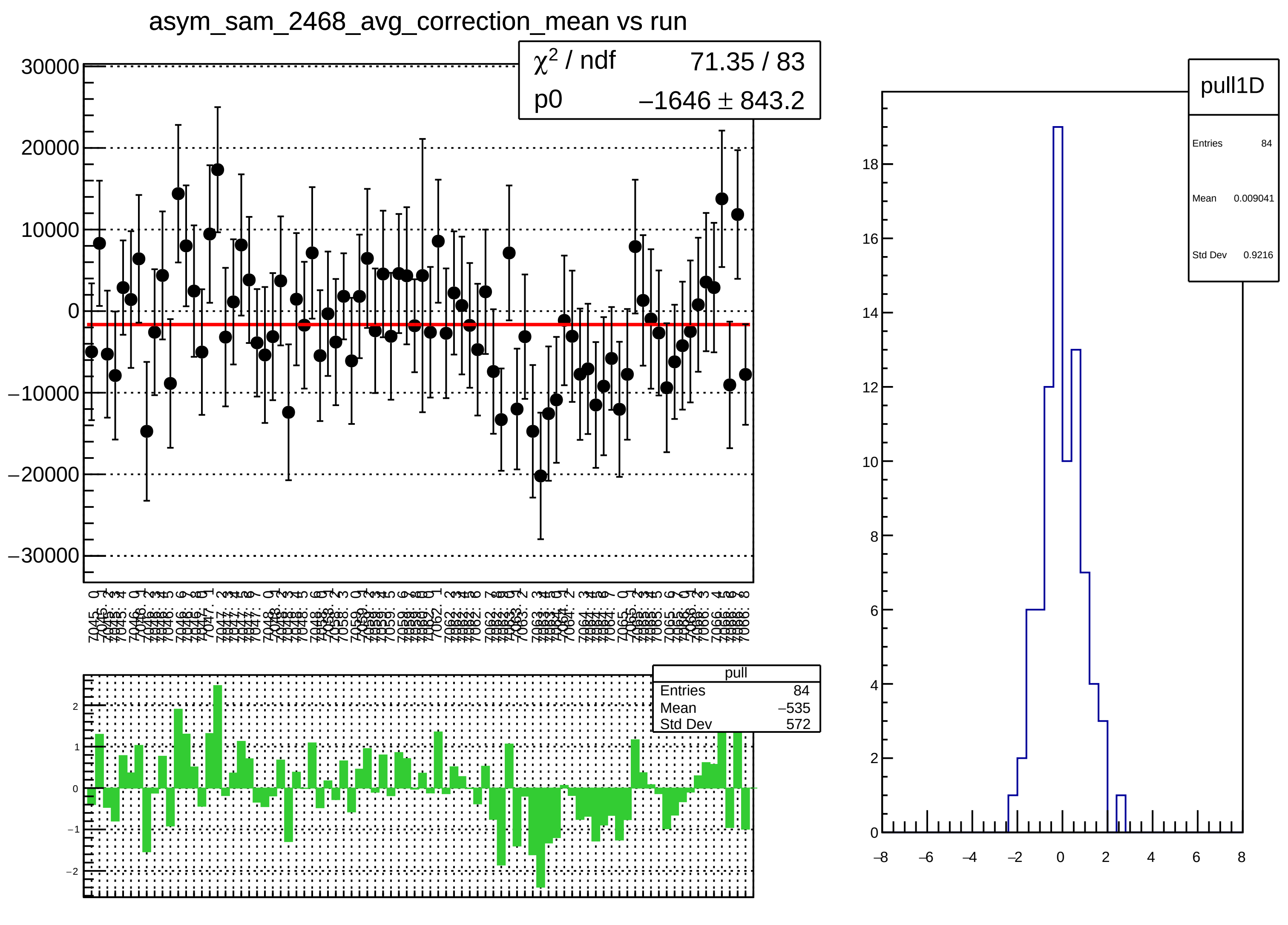


asym_sam_1357_avg_rms vs run
χ2 / ndf 3349 / 83
p0 378.7 ± 0.3002
420
400
380
360
340

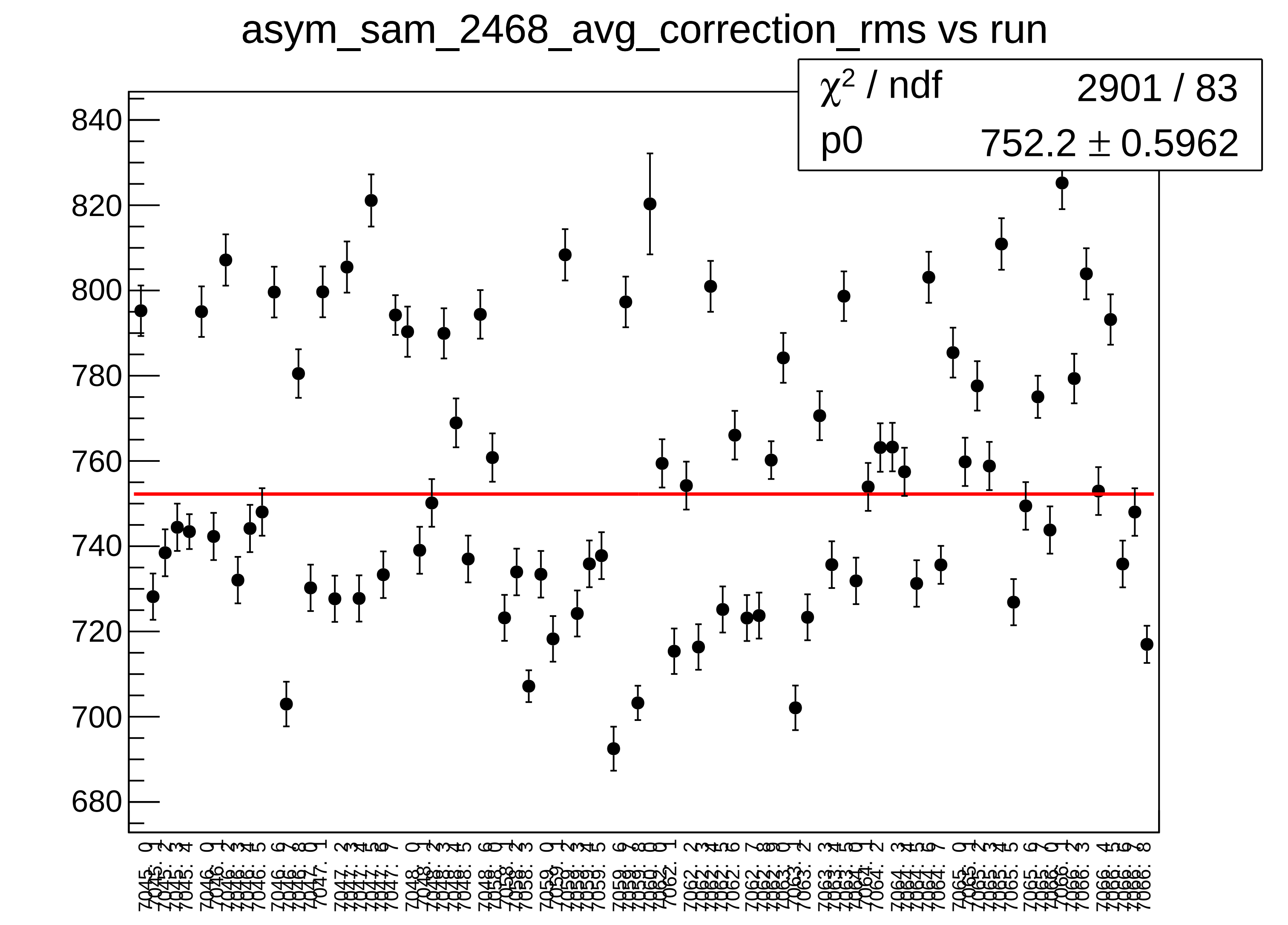

reg_asym_sam_2468_avg_mean vs run
χ2 / ndf 93.52 / 83
p0 −12.8 ± 85.07
pull
Entries 84
Mean 477.5
Std Dev 462.5
pull1D
Entries 84
Mean −0.000971
Std Dev 1.055

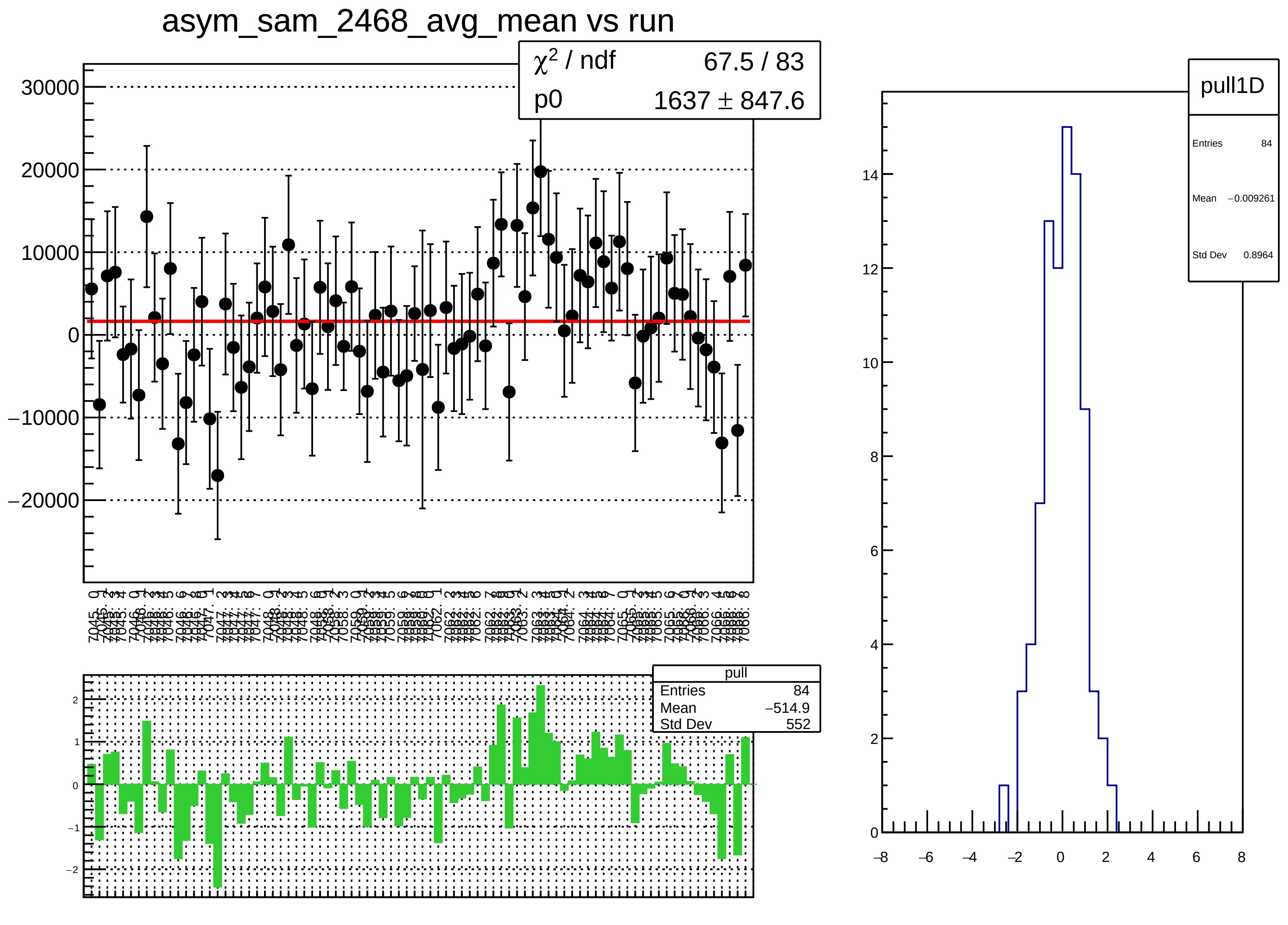


reg_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 1.54e+04 / 83
p0 75.59 ± 0.06015
110
105
100
95
90
85
80
75
70
65

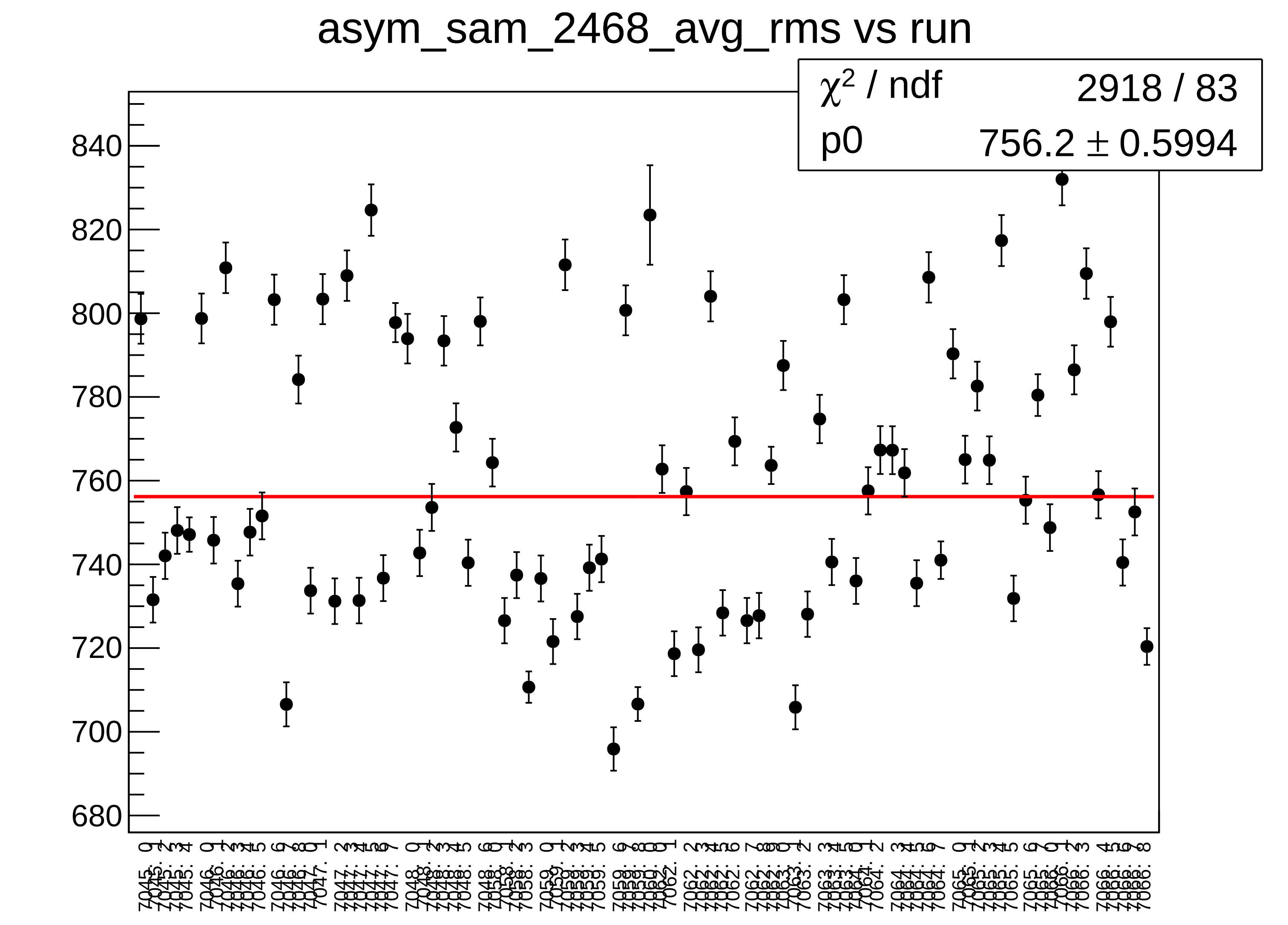


asym_sam_2468_avg_correction_mean vs run
$\chi^2$ / ndf 71.35 / 83
p0 −1646 ± 843.2
pull
Entries 84
Mean −535
Std Dev 572
pull1D
Entries 84
Mean 0.009041
Std Dev 0.9216

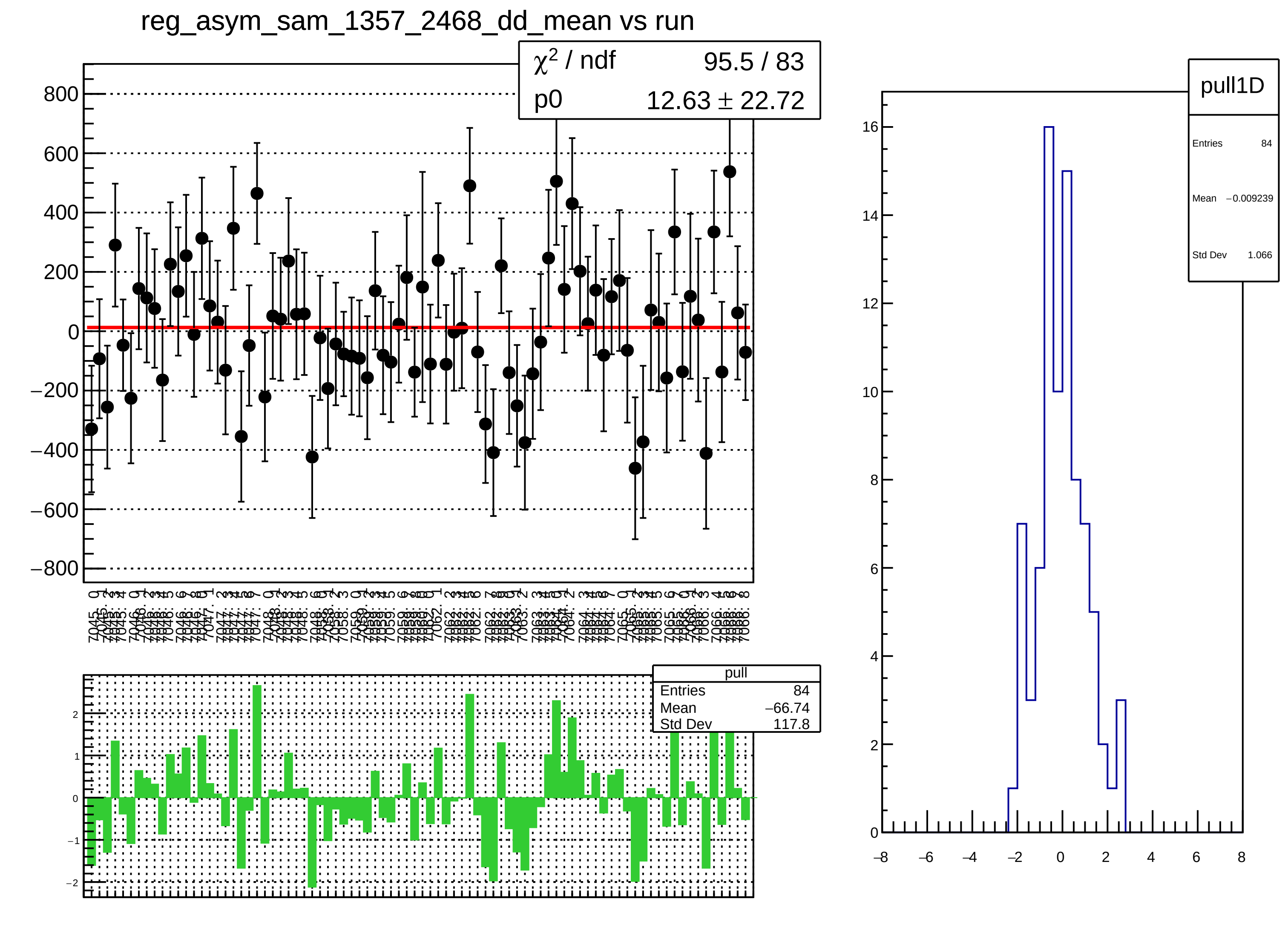

asym_sam_2468_avg_correction_rms vs run
χ2 / ndf 2901 / 83
p0 752.2 ± 0.5962
840
820
800
780
760
740
720
700
680



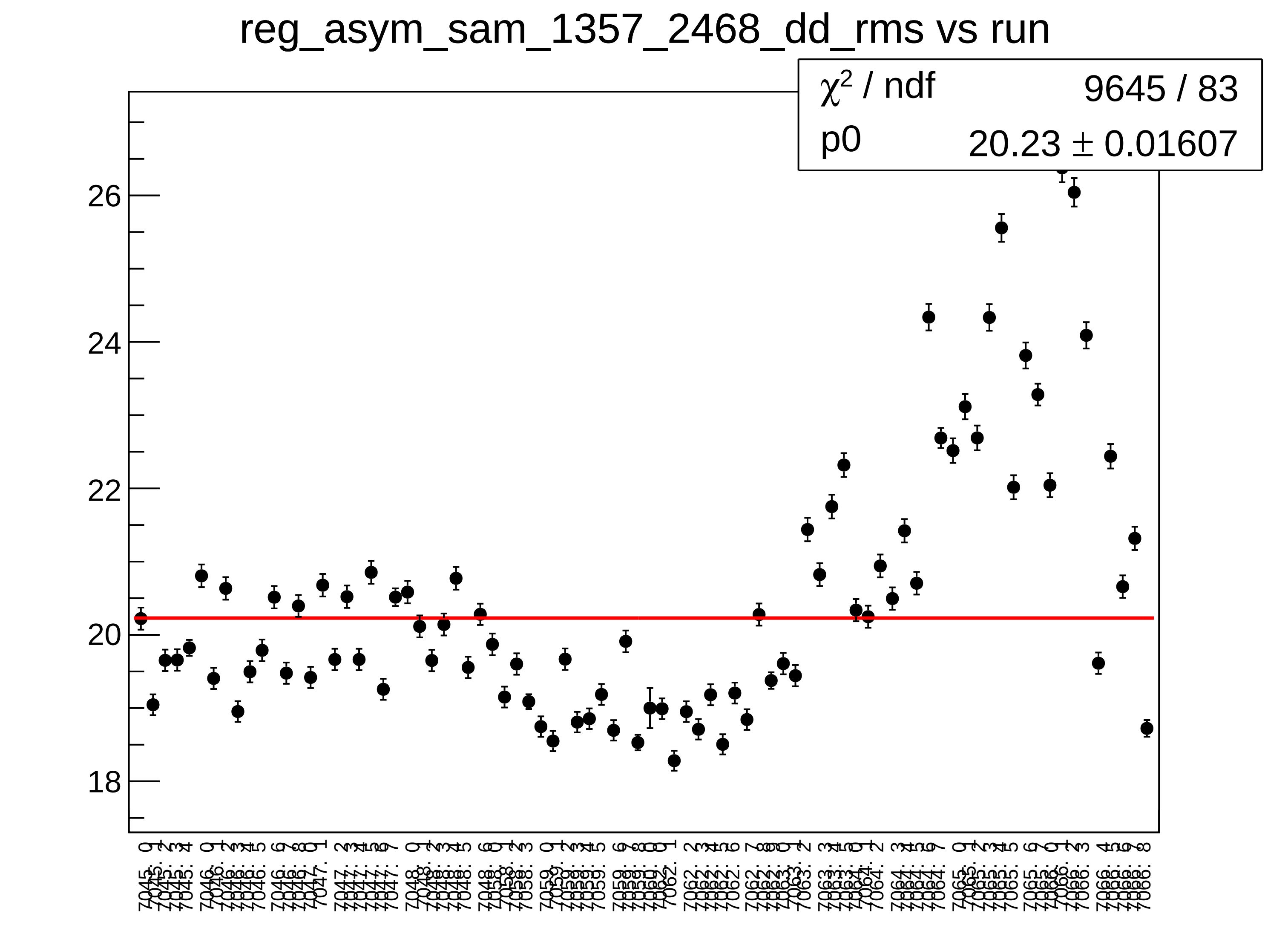
asym_sam_2468_avg_mean vs run
$\chi^2$ / ndf 67.5 / 83
p0 1637 ± 847.6
pull
Entries 84
Mean −514.9
Std Dev 552
pull1D
Entries 84
Mean −0.009261
Std Dev 0.8964



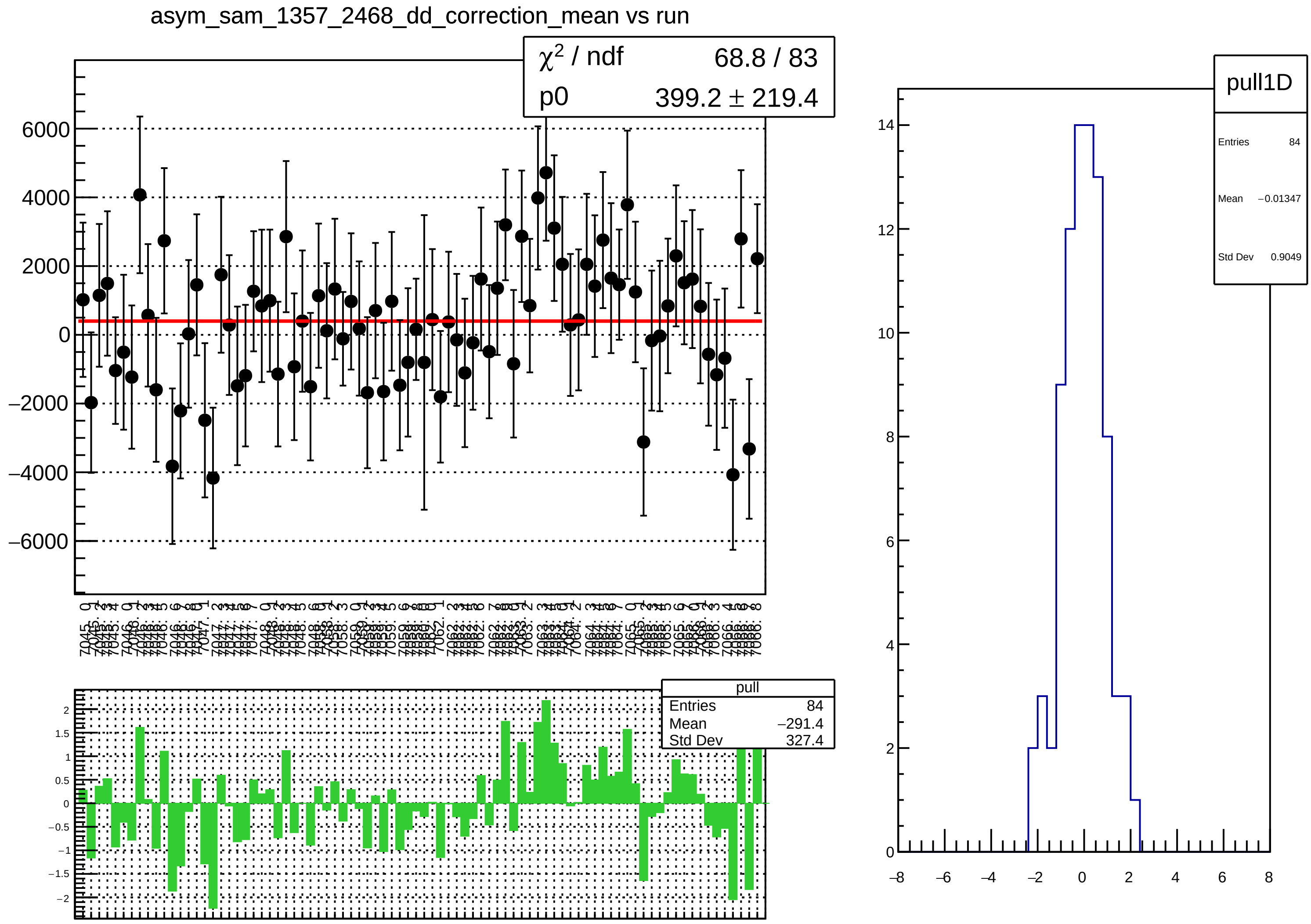
asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 2918 / 83
p0 756.2 ± 0.5994
840
820
800
780
760
740
720
700
680



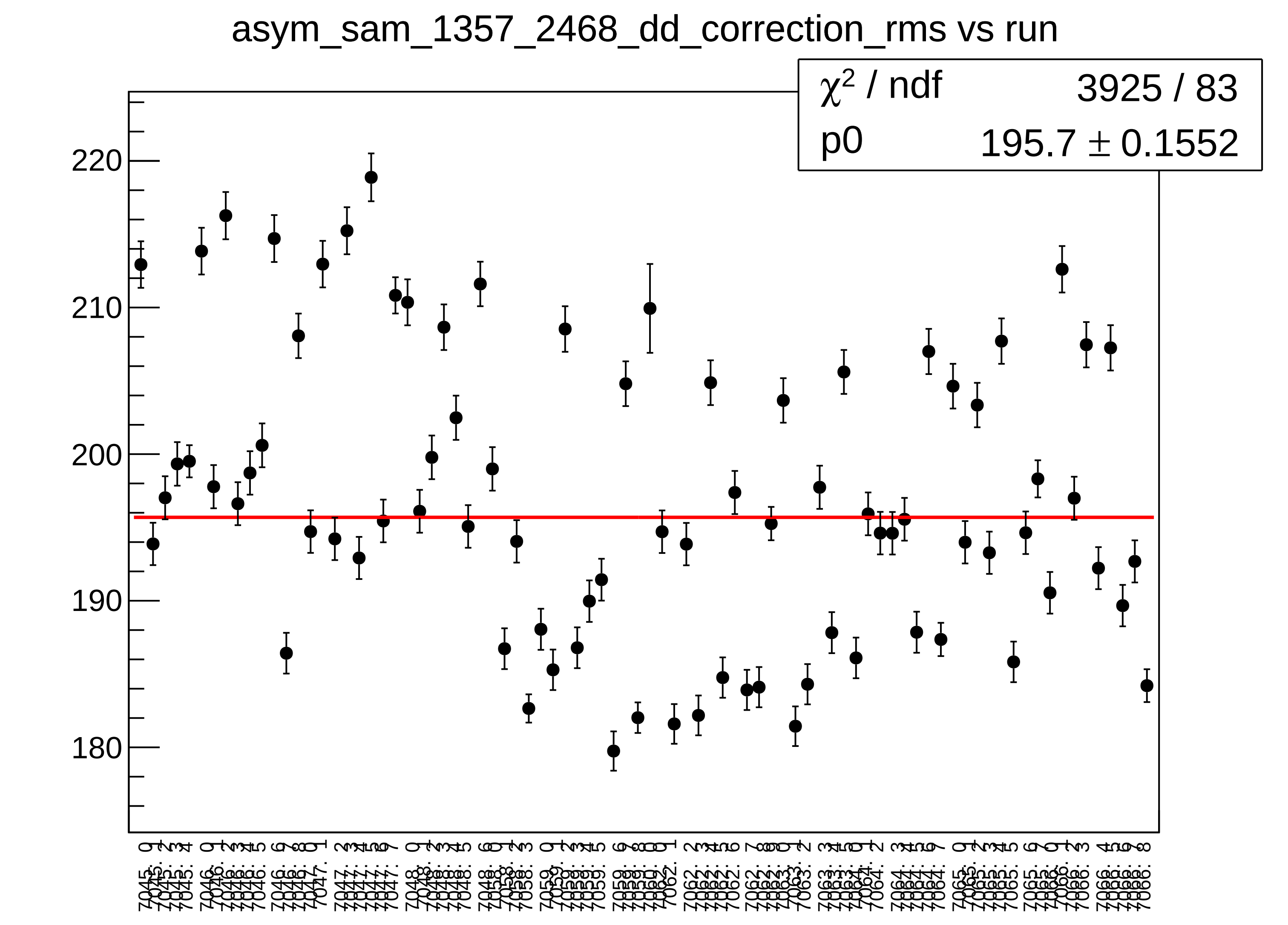
reg_asym_sam_1357_2468_dd_mean vs run
$\chi^2$ / ndf 95.5 / 83
p0 12.63 ± 22.72
pull
Entries 84
Mean −66.74
Std Dev 117.8
pull1D
Entries 84
Mean −0.009239
Std Dev 1.066



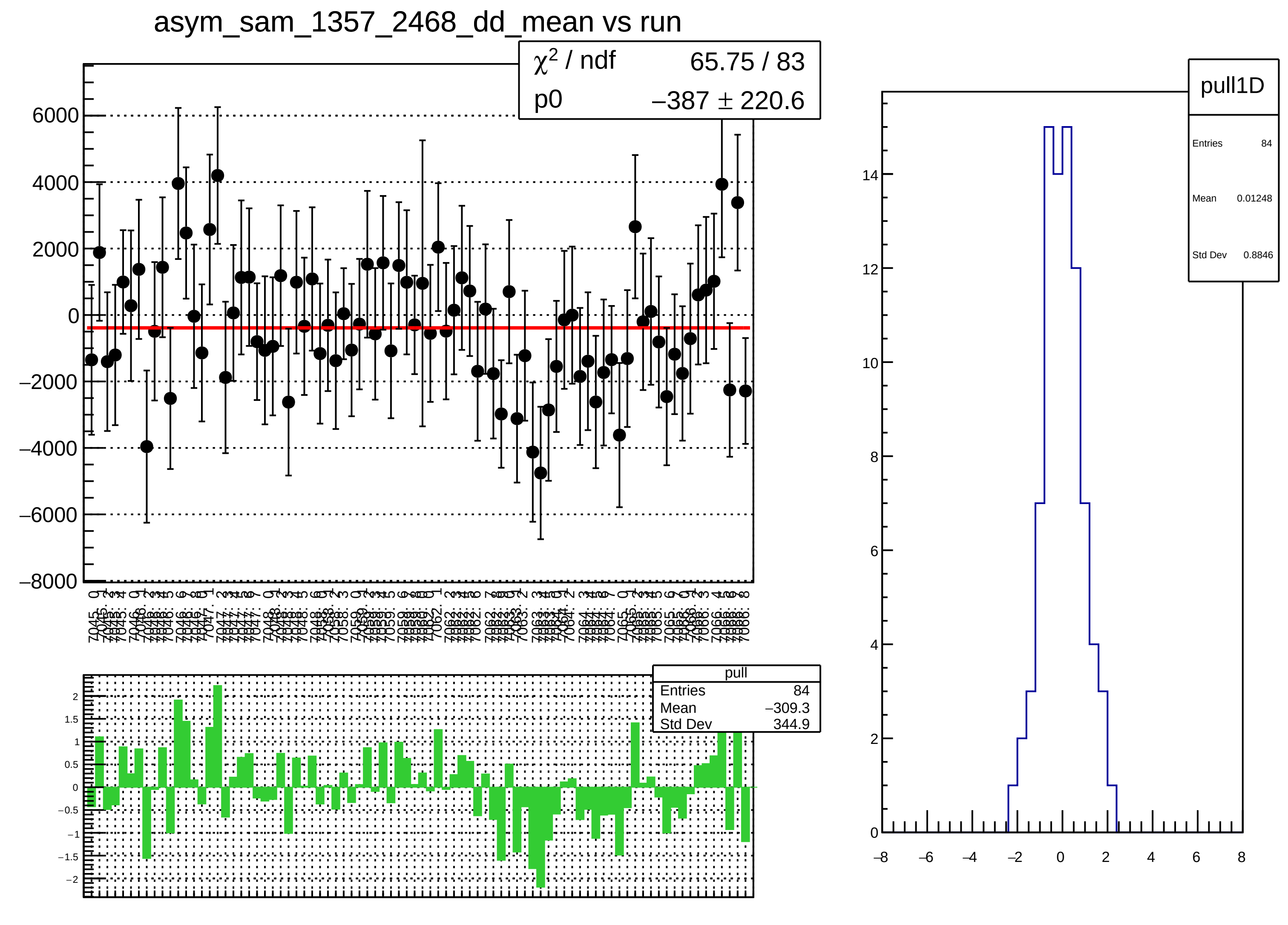
reg_asym_sam_1357_2468_dd_rms vs run
$\chi^2$ / ndf 9645 / 83
p0 20.23 ± 0.01607
18
20
22
24
26



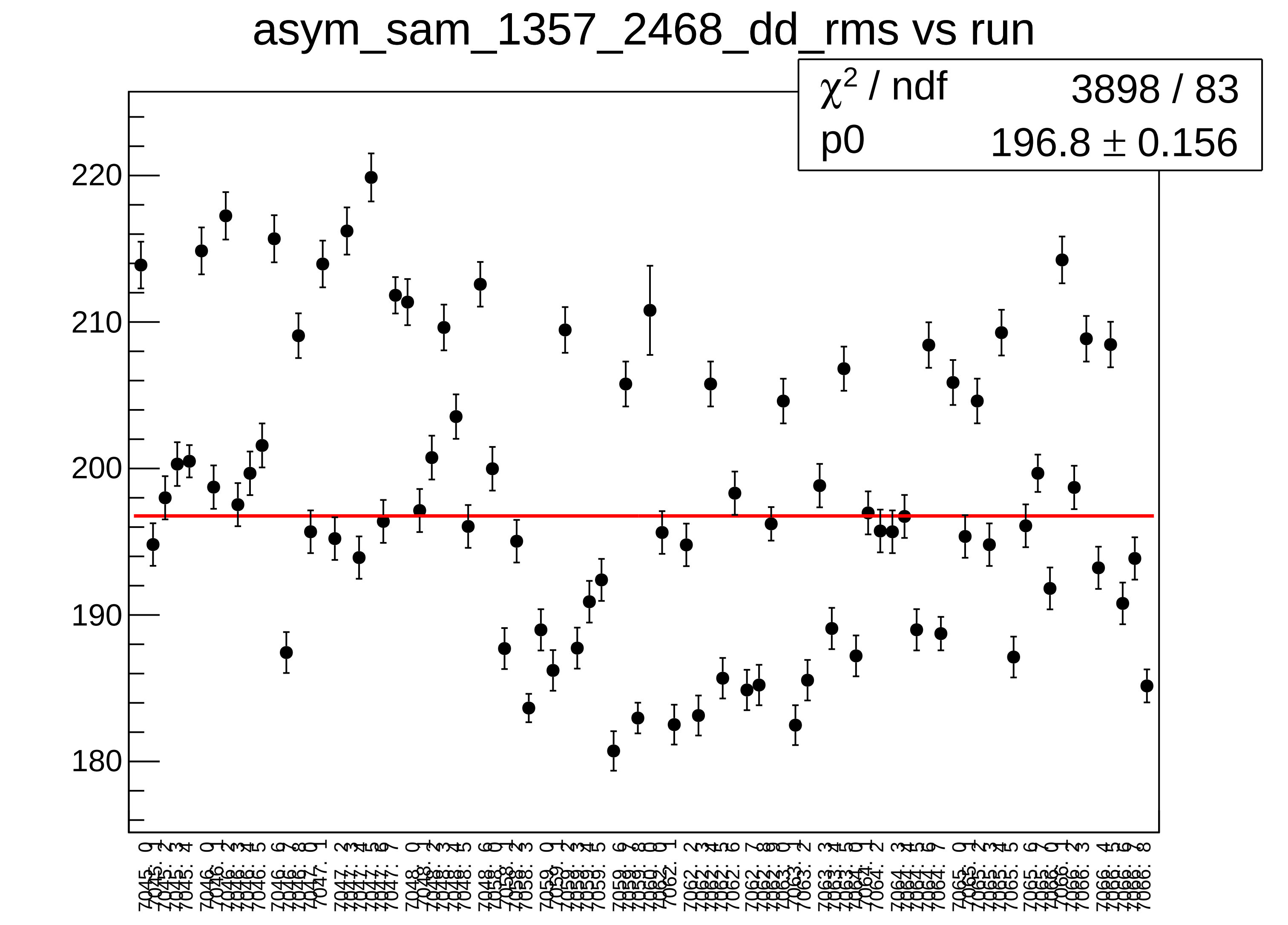
asym_sam_1357_2468_dd_correction_mean vs run
$\chi^2$ / ndf 68.8 / 83
p0 399.2 ± 219.4
pull
Entries 84
Mean −291.4
Std Dev 327.4
pull1D
Entries 84
Mean −0.01347
Std Dev 0.9049



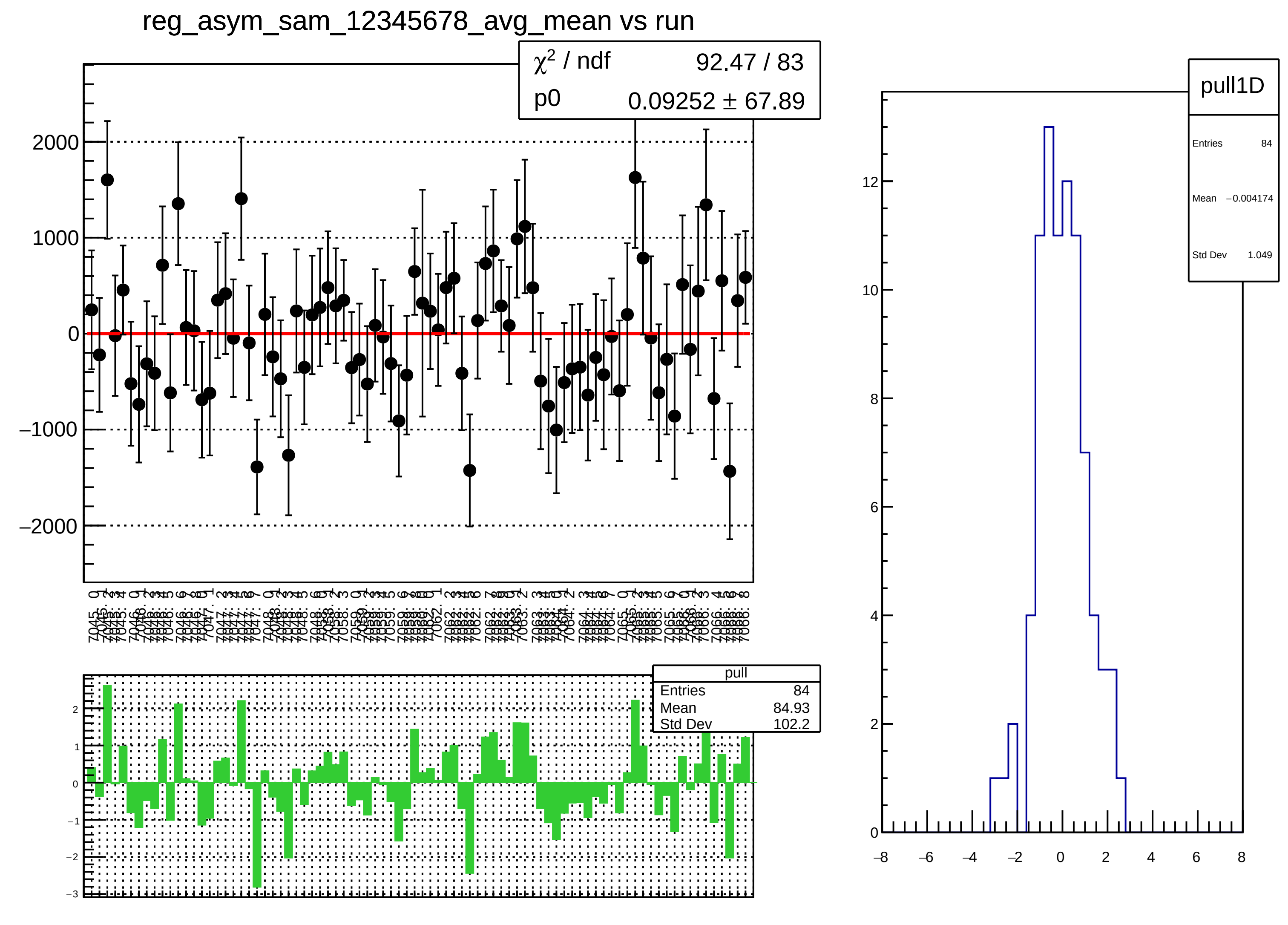
asym_sam_1357_2468_dd_correction_rms vs run
$\chi^2$ / ndf 3925 / 83
p0 195.7 ± 0.1552
220
210
200
190
180

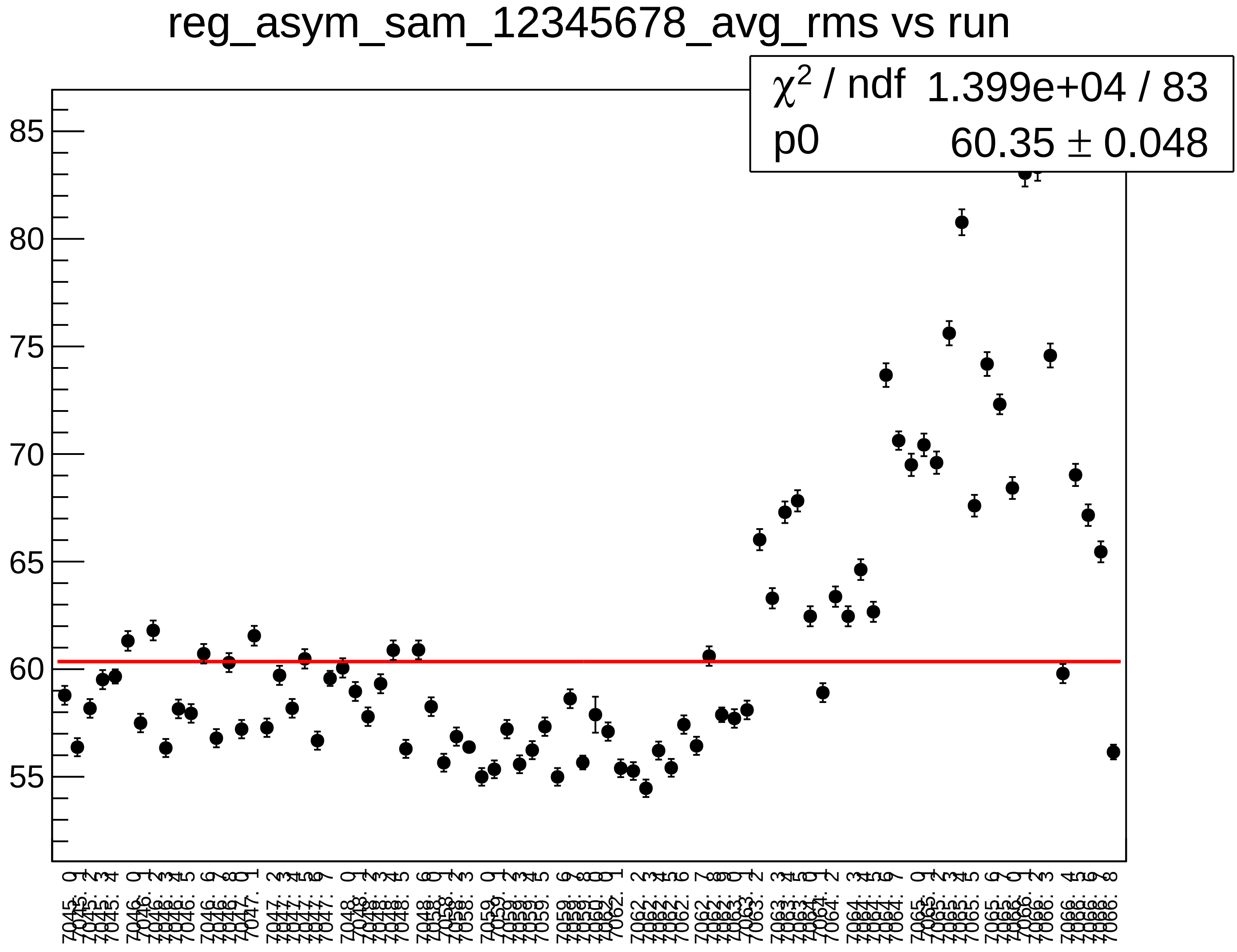


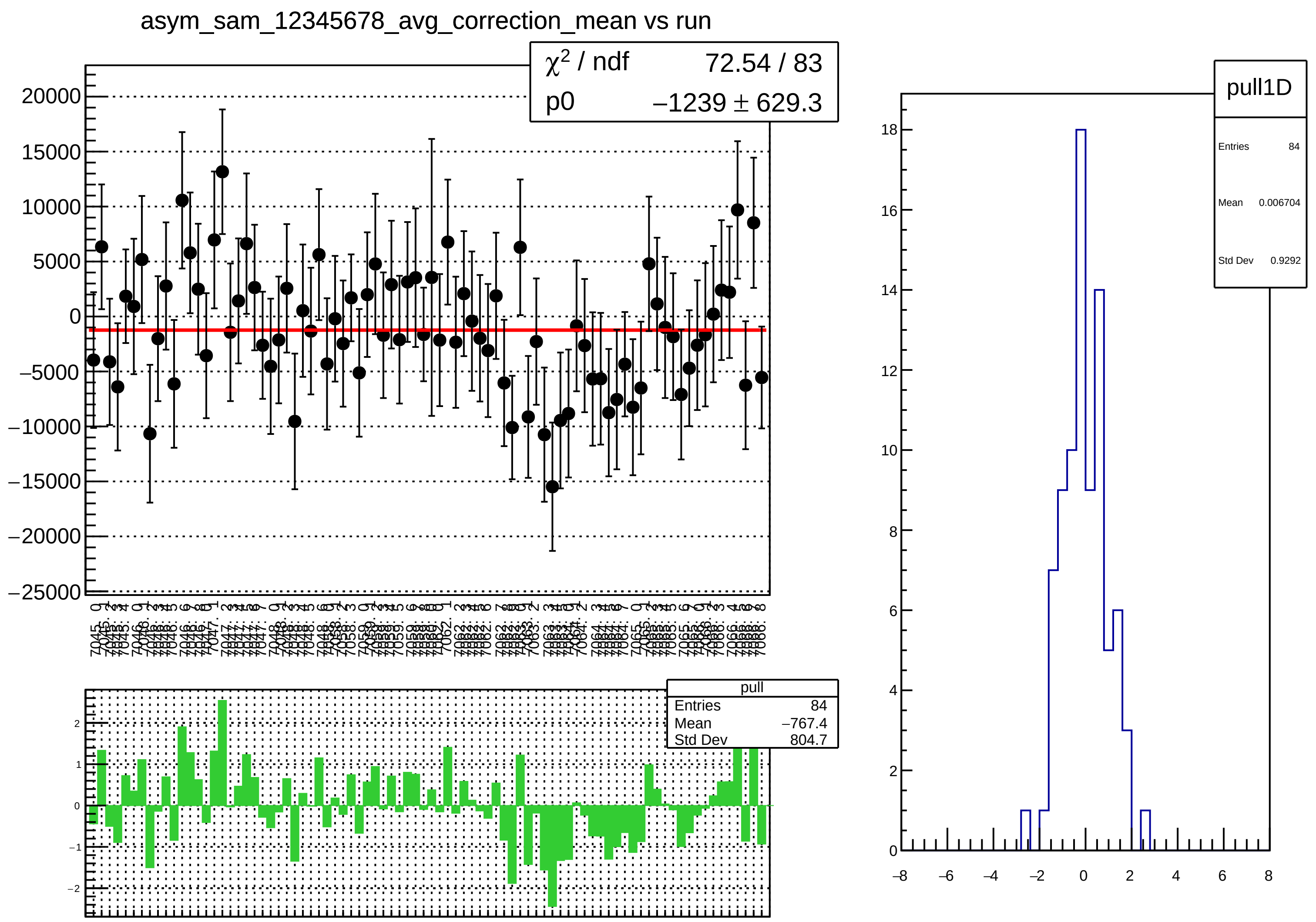
asym_sam_1357_2468_dd_mean vs run
$\chi^2$ / ndf 65.75 / 83
p0 −387 ± 220.6
pull
Entries 84
Mean −309.3
Std Dev 344.9
pull1D
Entries 84
Mean 0.01248
Std Dev 0.8846

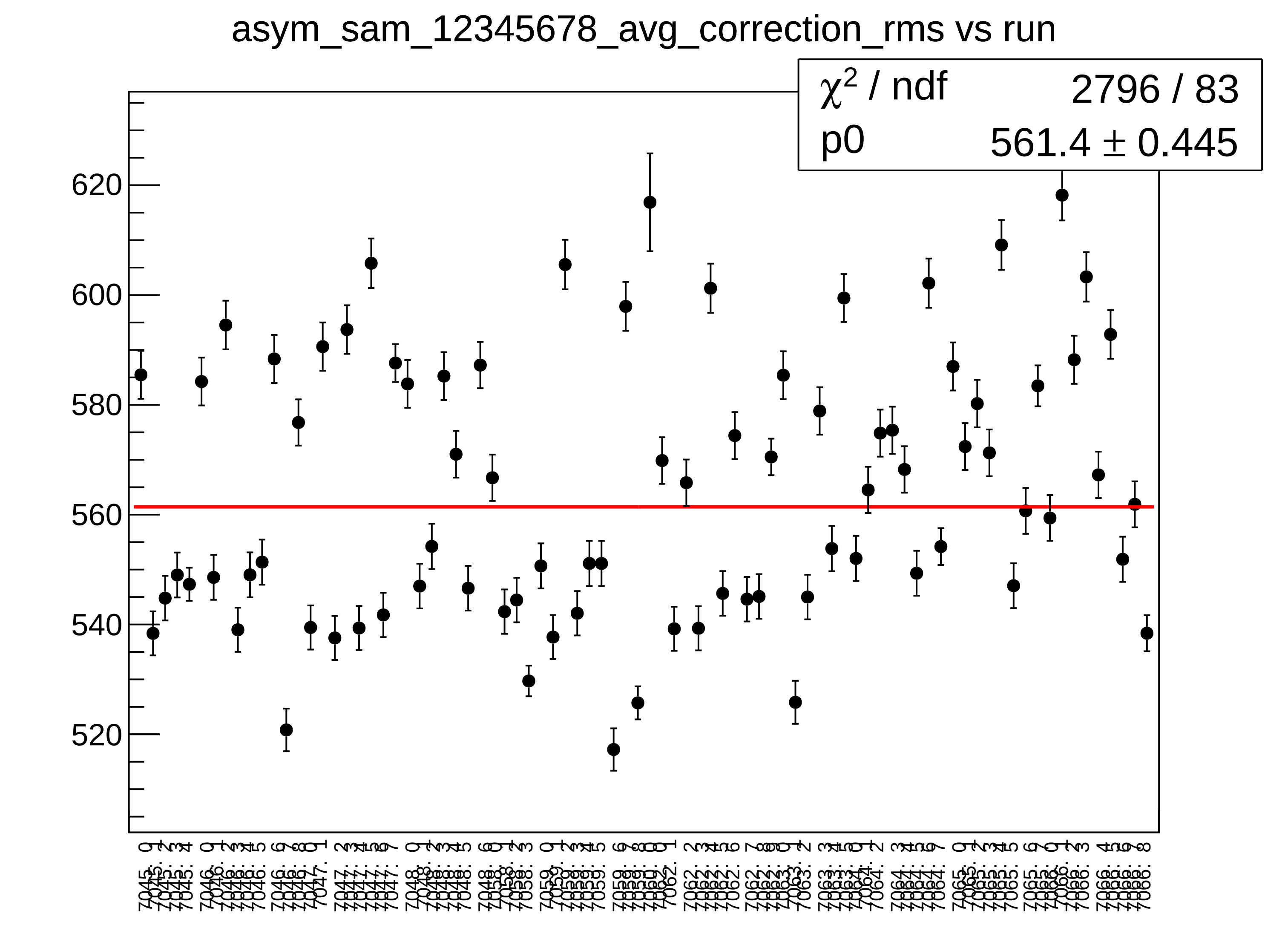


asym_sam_1357_2468_dd_rms vs run
$\chi^2$ / ndf 3898 / 83
p0 196.8 ± 0.156
220
210
200
190
180

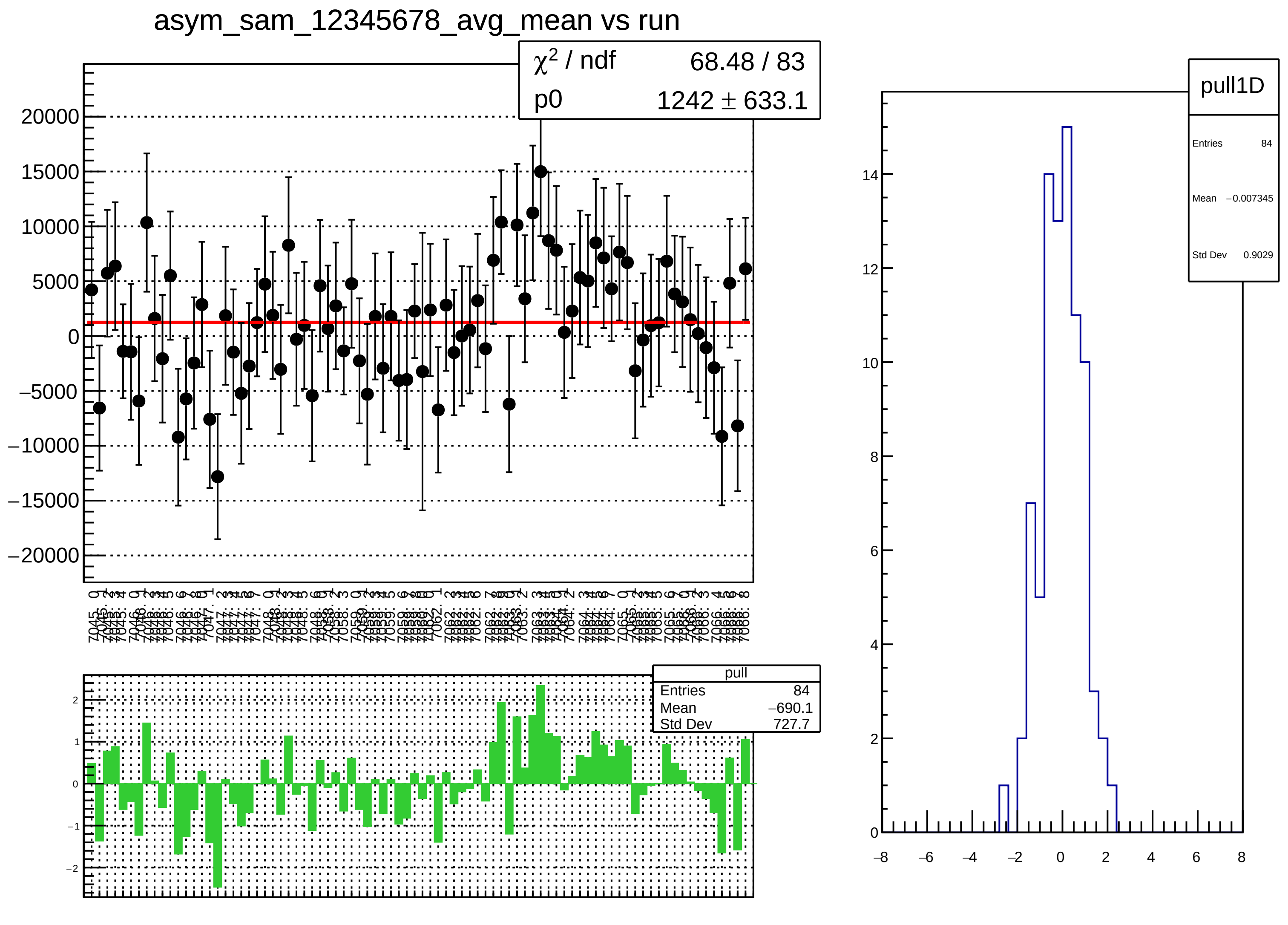

reg_asym_sam_12345678_avg_mean vs run
$\chi^2$ / ndf 92.47 / 83
p0 0.09252 ± 67.89
pull
Entries 84
Mean 84.93
Std Dev 102.2
pull1D
Entries 84
Mean −0.004174
Std Dev 1.049


reg_asym_sam_12345678_avg_rms vs run
χ2 / ndf 1.399e+04 / 83
p0 60.35 ± 0.048
85
80
75
70
65
60
55

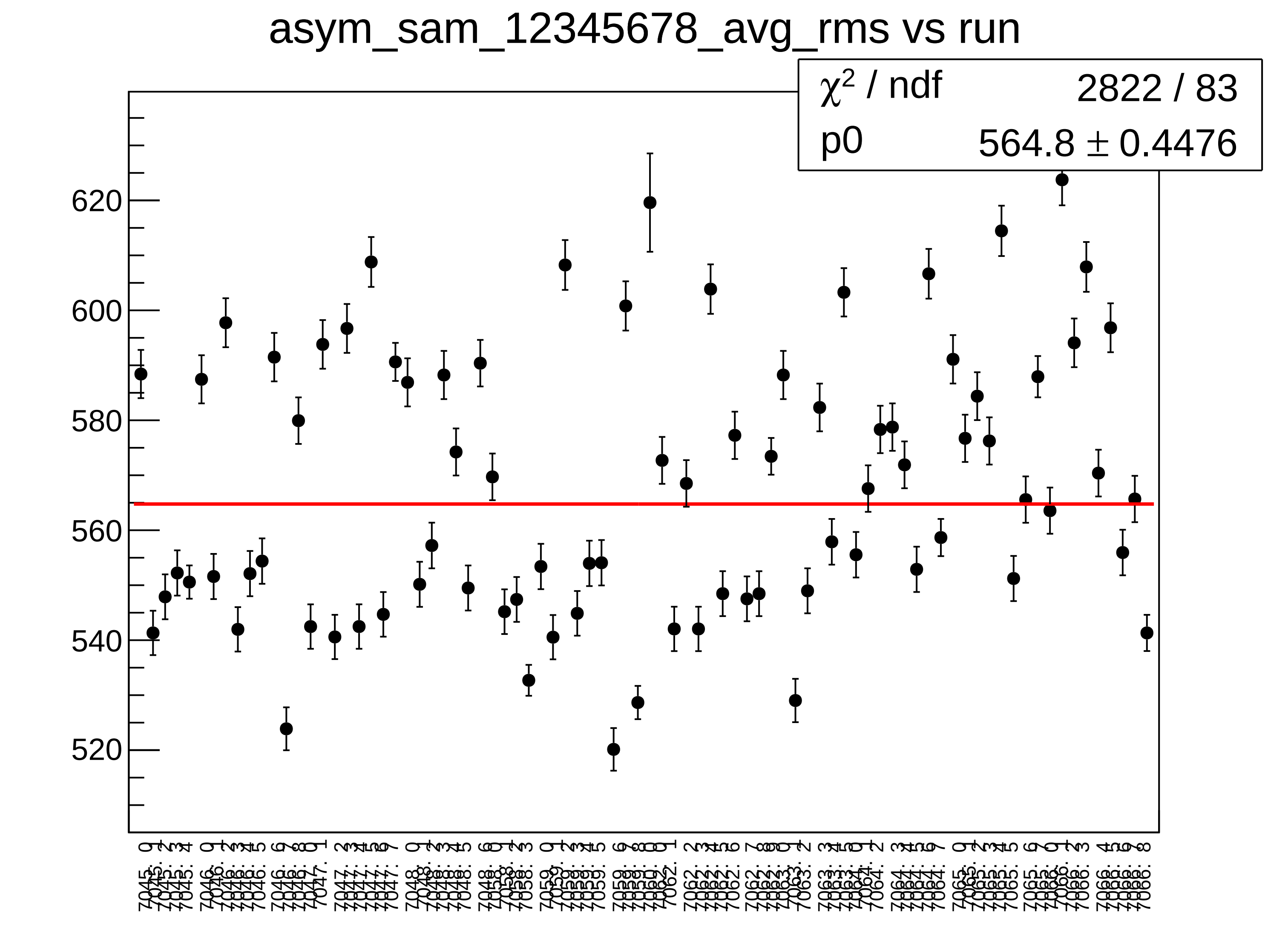

asym_sam_12345678_avg_correction_mean vs run
$\chi^2$ / ndf 72.54 / 83
p0 −1239 ± 629.3
pull
Entries 84
Mean −767.4
Std Dev 804.7
pull1D
Entries 84
Mean 0.006704
Std Dev 0.9292

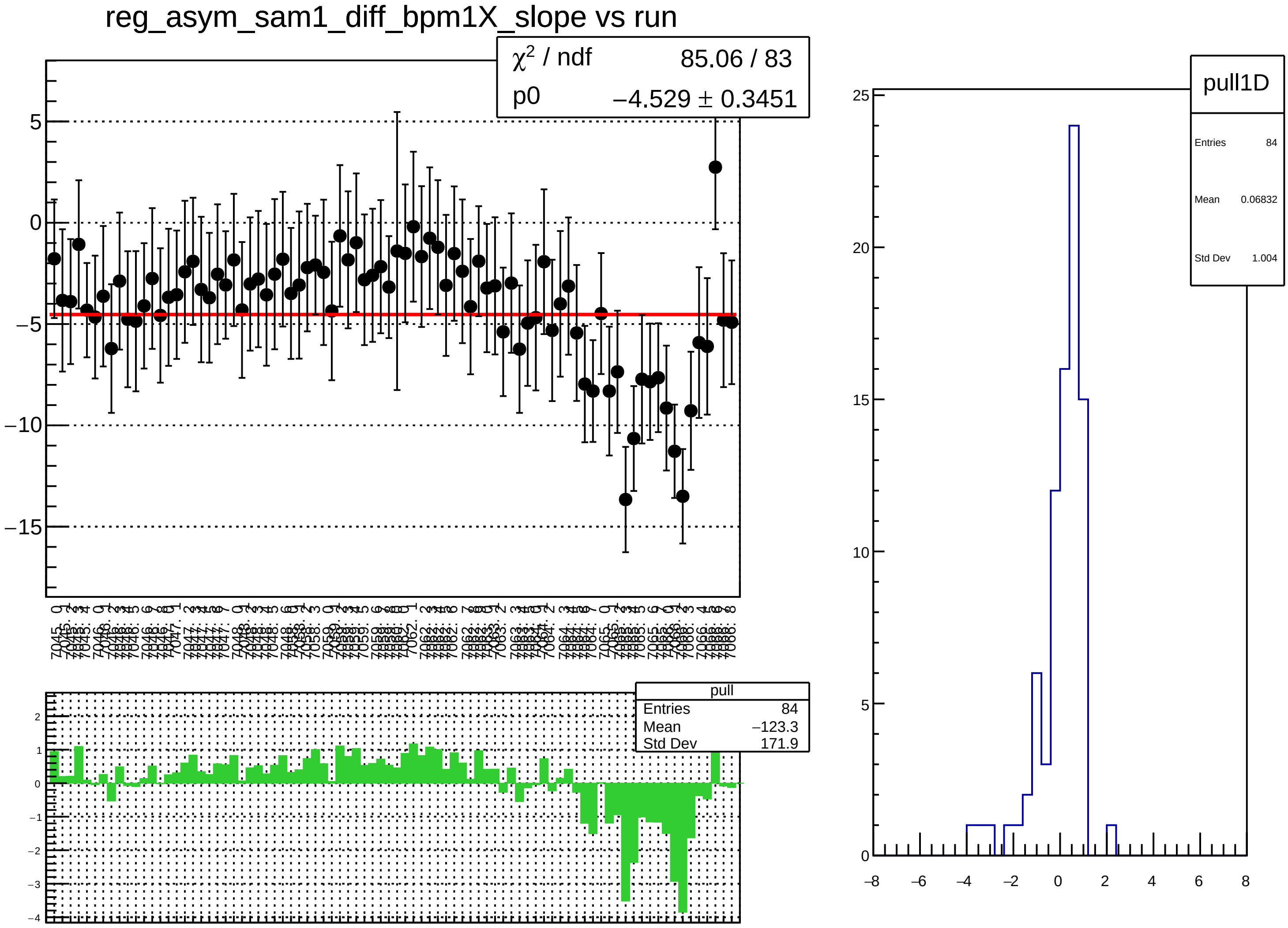


asym_sam_12345678_avg_correction_rms vs run
$\chi^2$ / ndf 2796 / 83
p0 561.4 ± 0.445
620
600
580
560
540
520

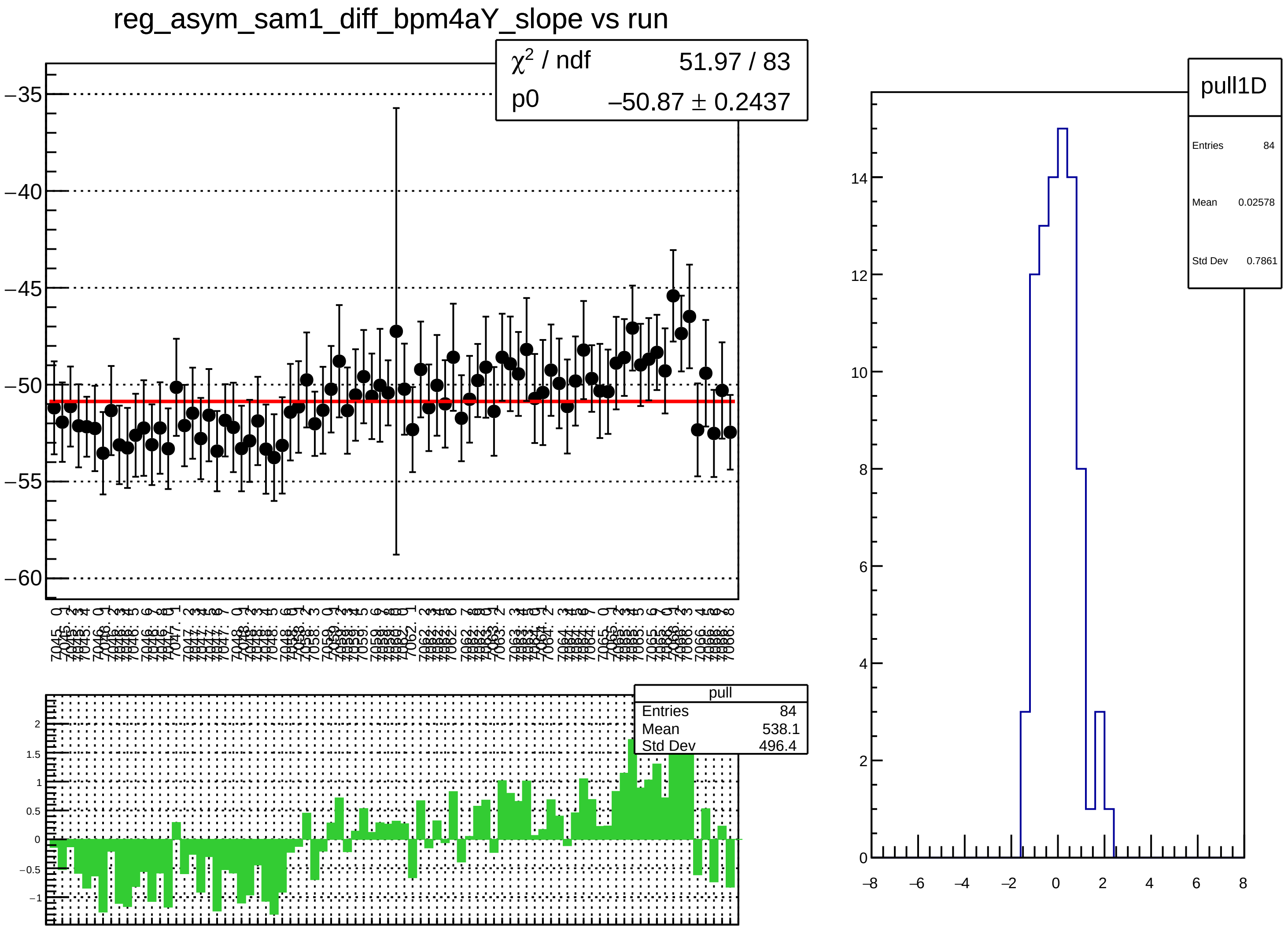


asym_sam_12345678_avg_mean vs run
$\chi^2$ / ndf 68.48 / 83
p0 1242 ± 633.1
pull
Entries 84
Mean −690.1
Std Dev 727.7
pull1D
Entries 84
Mean −0.007345
Std Dev 0.9029

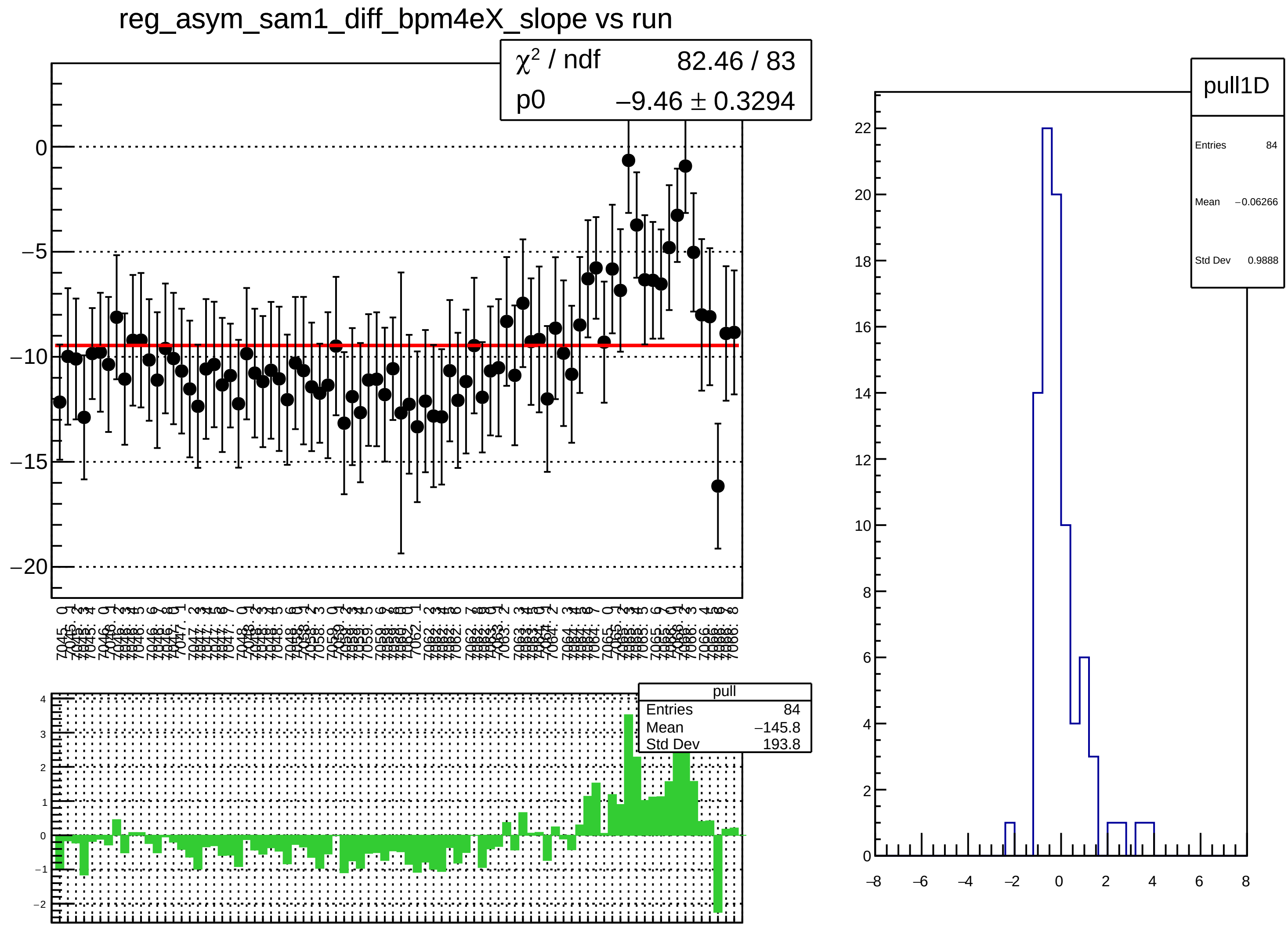

asym_sam_12345678_avg_rms vs run
$\chi^2$ / ndf 2822 / 83
p0 564.8 ± 0.4476
620
600
580
560
540
520



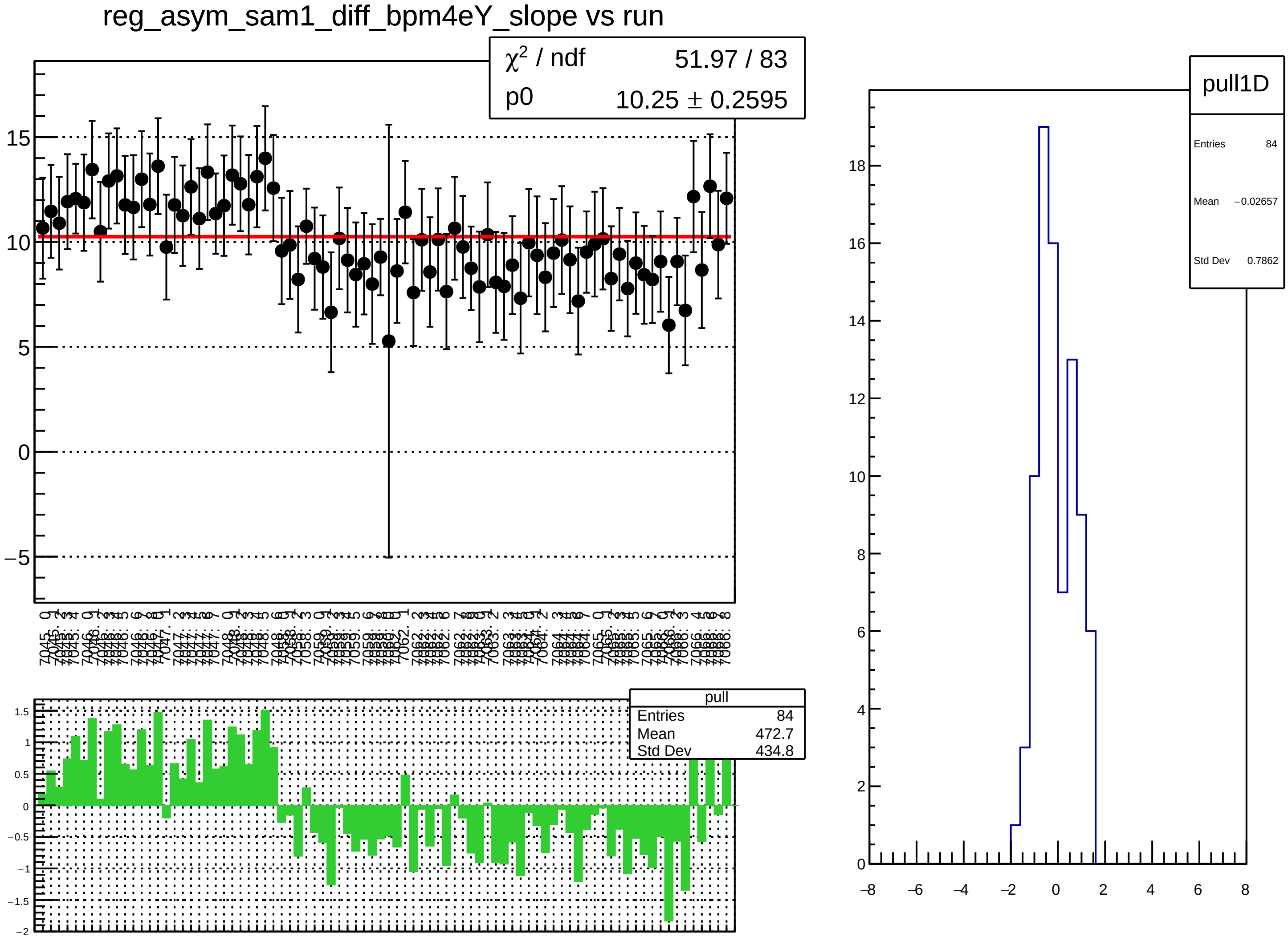
reg_asym_sam1_diff_bpm1X_slope vs run
$\chi^2$ / ndf 85.06 / 83
p0 −4.529 ± 0.3451
pull
Entries 84
Mean −123.3
Std Dev 171.9
pull1D
Entries 84
Mean 0.06832
Std Dev 1.004



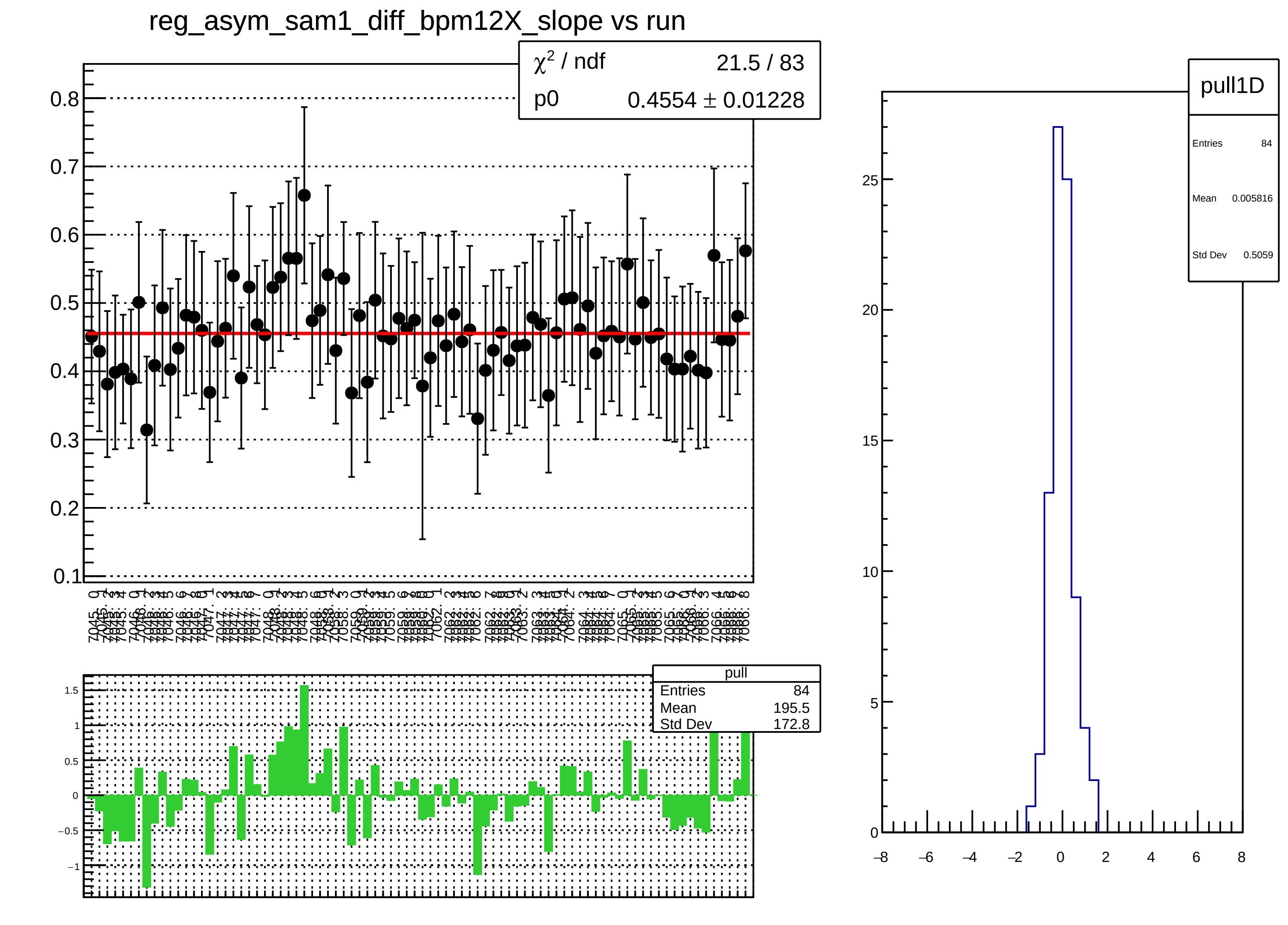
reg_asym_sam1_diff_bpm4aY_slope vs run
χ2 / ndf 51.97 / 83
p0 −50.87 ± 0.2437
pull
Entries 84
Mean 538.1
Std Dev 496.4
pull1D
Entries 84
Mean 0.02578
Std Dev 0.7861



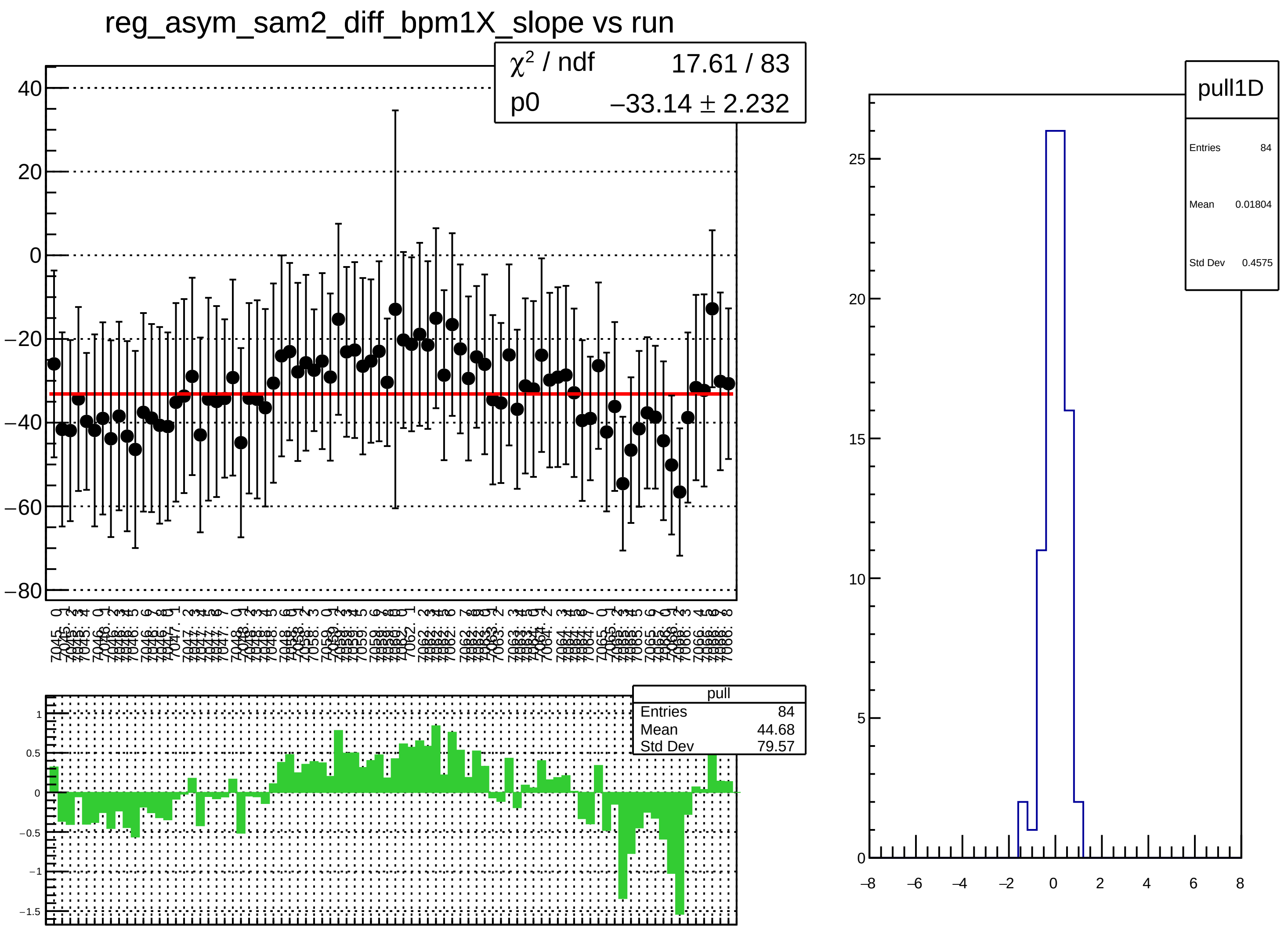
reg_asym_sam1_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 82.46 / 83
p0 −9.46 ± 0.3294
0
−5
−10
−15
−20
pull
Entries 84
Mean −145.8
Std Dev 193.8
4
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.06266
Std Dev 0.9888
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



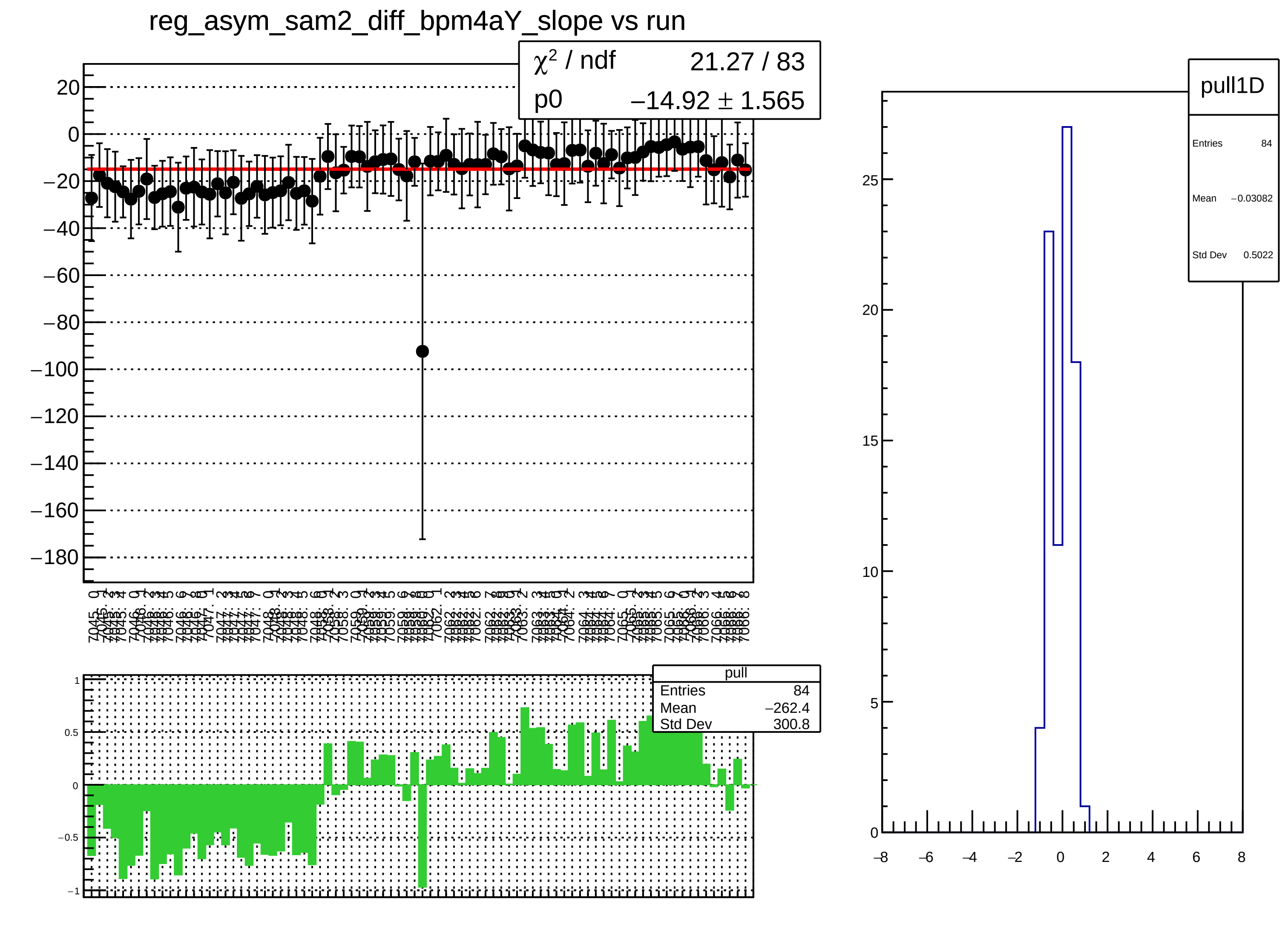
reg_asym_sam1_diff_bpm4eY_slope vs run
χ2 / ndf 51.97 / 83
p0 10.25 ± 0.2595
pull
Entries 84
Mean 472.7
Std Dev 434.8
pull1D
Entries 84
Mean −0.02657
Std Dev 0.7862



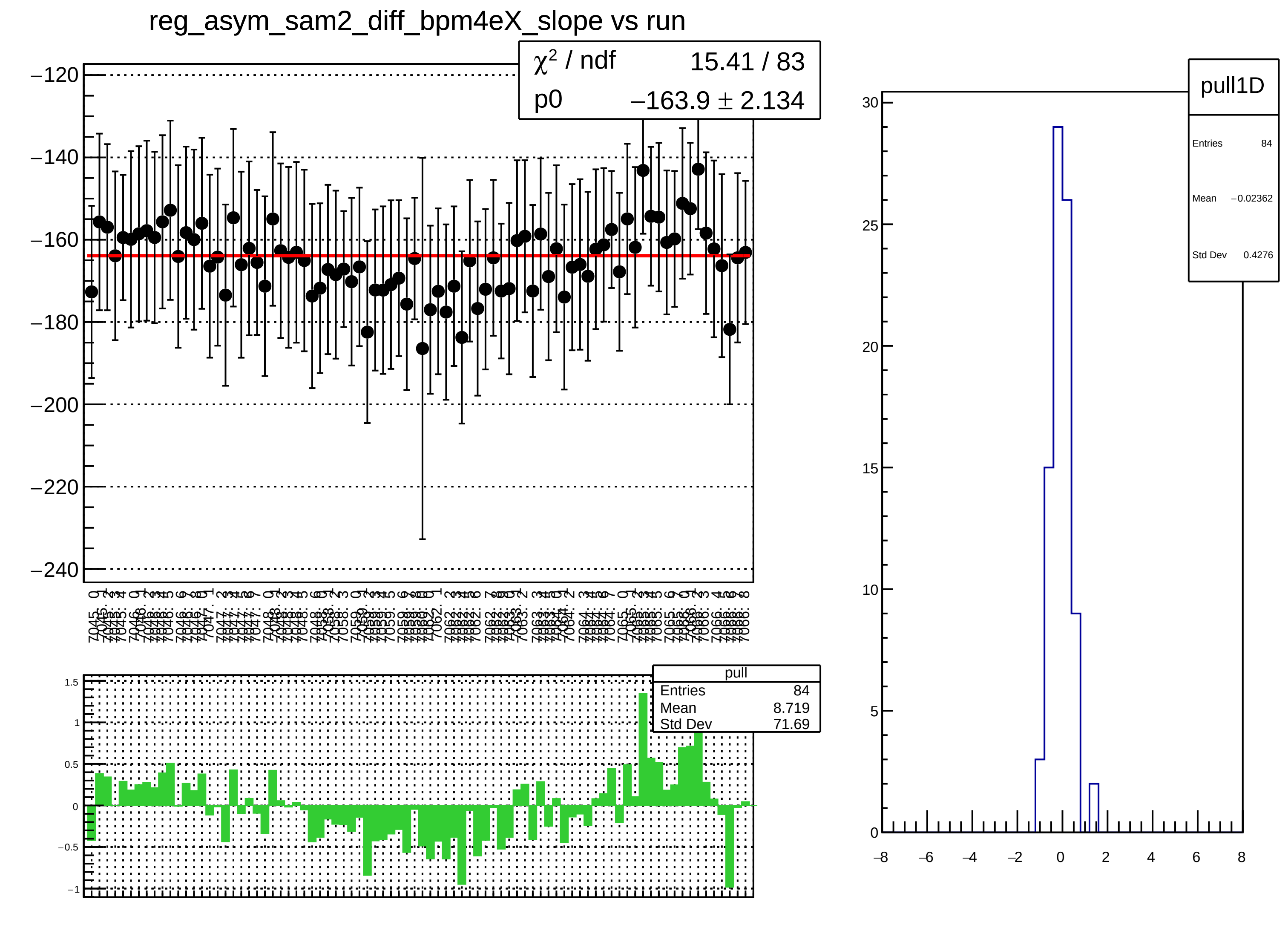
reg_asym_sam1_diff_bpm12X_slope vs run
$\chi^2$ / ndf 21.5 / 83
p0 0.4554 ± 0.01228
pull
Entries 84
Mean 195.5
Std Dev 172.8
pull1D
Entries 84
Mean 0.005816
Std Dev 0.5059



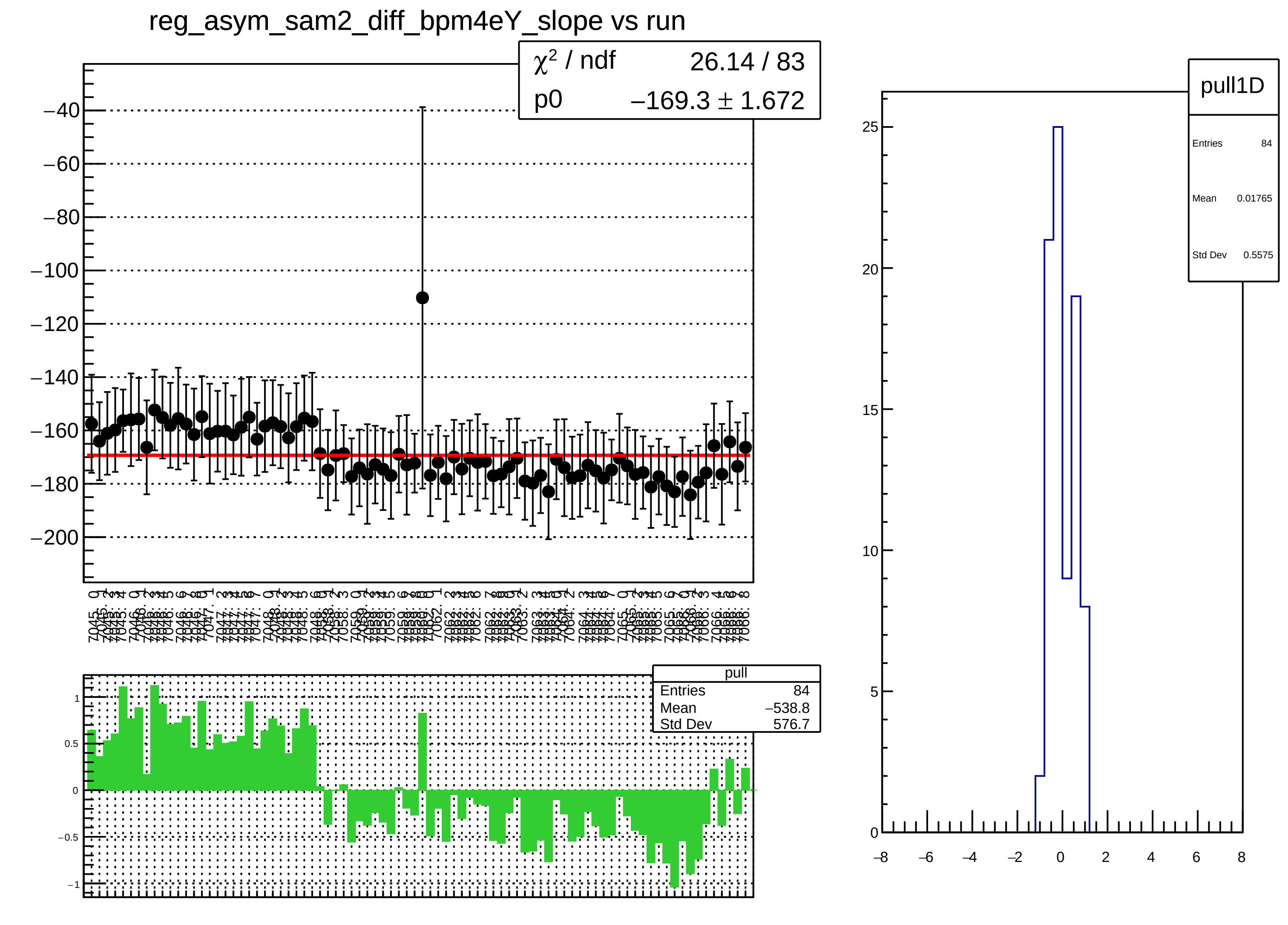
reg_asym_sam2_diff_bpm1X_slope vs run
$\chi^2$ / ndf 17.61 / 83
p0 −33.14 ± 2.232
pull
Entries 84
Mean 44.68
Std Dev 79.57
pull1D
Entries 84
Mean 0.01804
Std Dev 0.4575



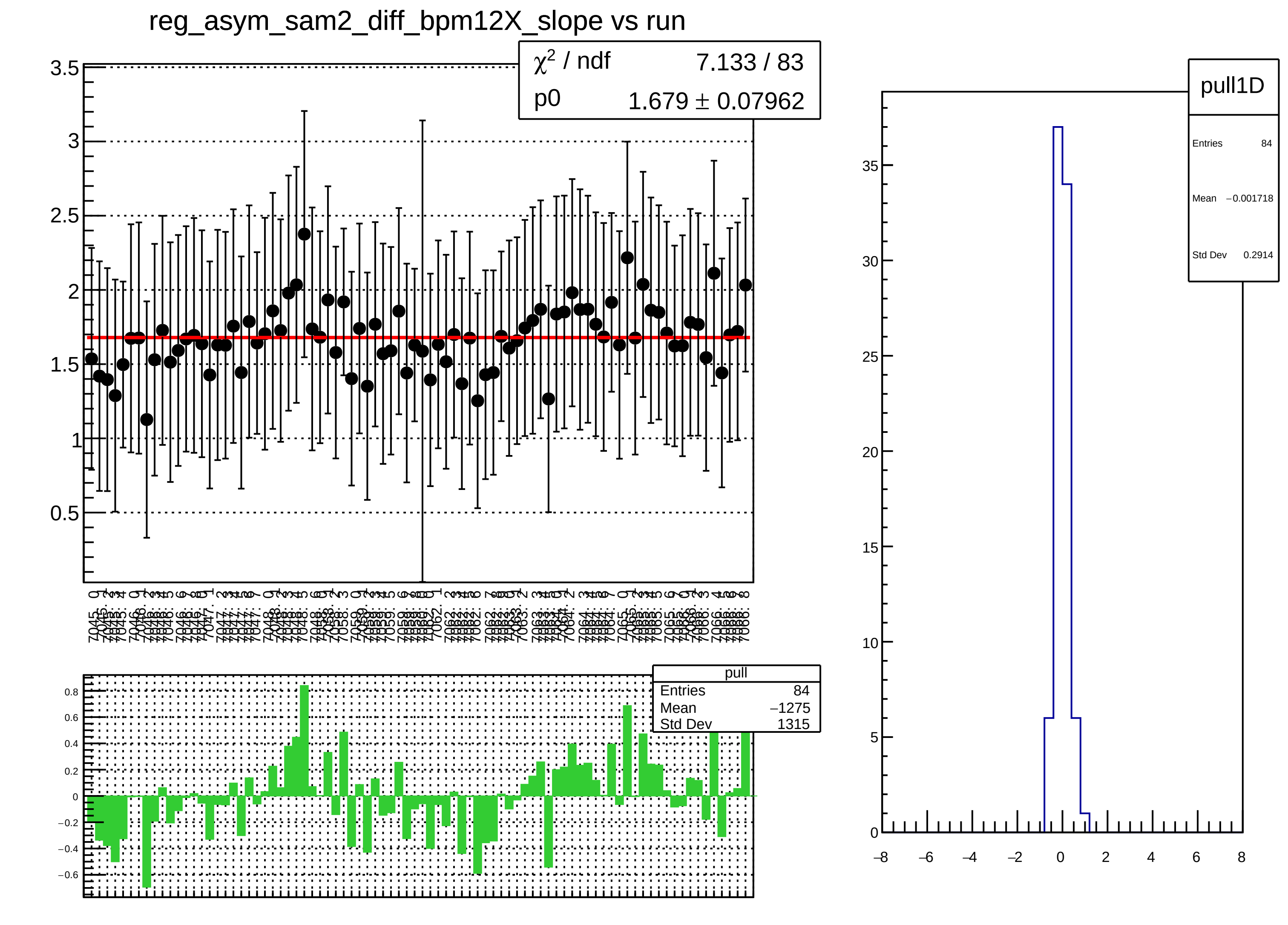
reg_asym_sam2_diff_bpm4aY_slope vs run
χ2 / ndf 21.27 / 83
p0 −14.92 ± 1.565
pull
Entries 84
Mean −262.4
Std Dev 300.8
pull1D
Entries 84
Mean −0.03082
Std Dev 0.5022



reg_asym_sam2_diff_bpm4eX_slope vs run
χ2 / ndf 15.41 / 83
p0 −163.9 ± 2.134
pull
Entries 84
Mean 8.719
Std Dev 71.69
pull1D
Entries 84
Mean −0.02362
Std Dev 0.4276

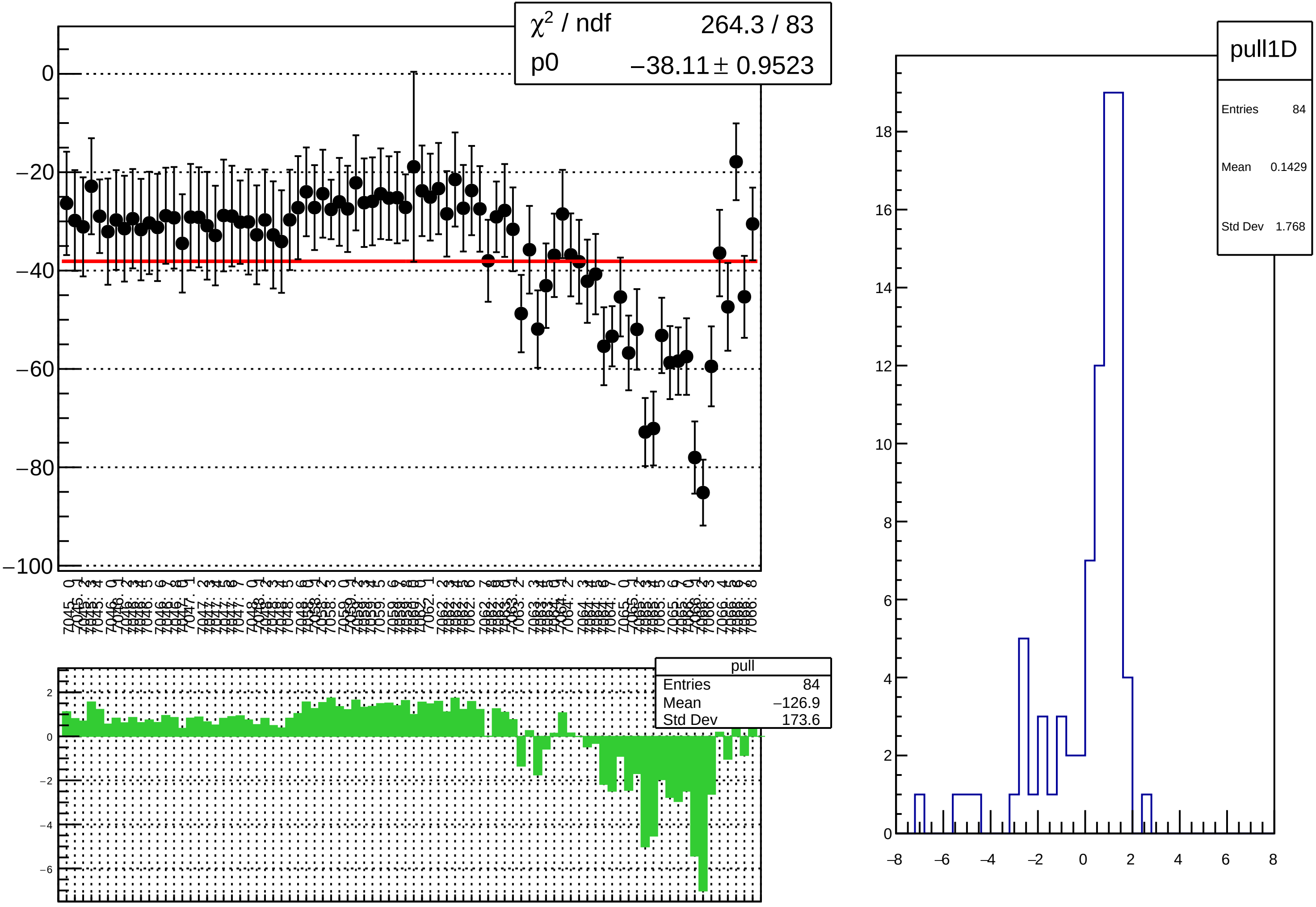


reg_asym_sam2_diff_bpm4eY_slope vs run
χ2 / ndf 26.14 / 83
p0 −169.3 ± 1.672
pull
Entries 84
Mean −538.8
Std Dev 576.7
pull1D
Entries 84
Mean 0.01765
Std Dev 0.5575

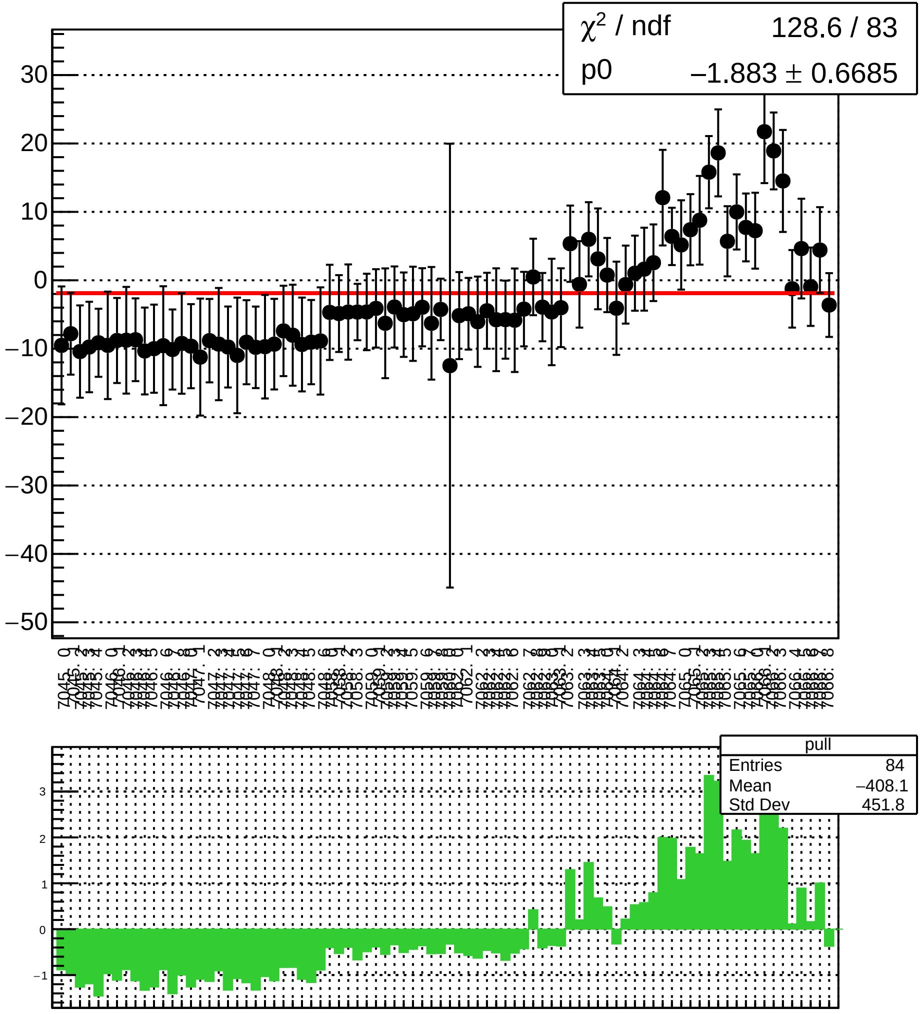


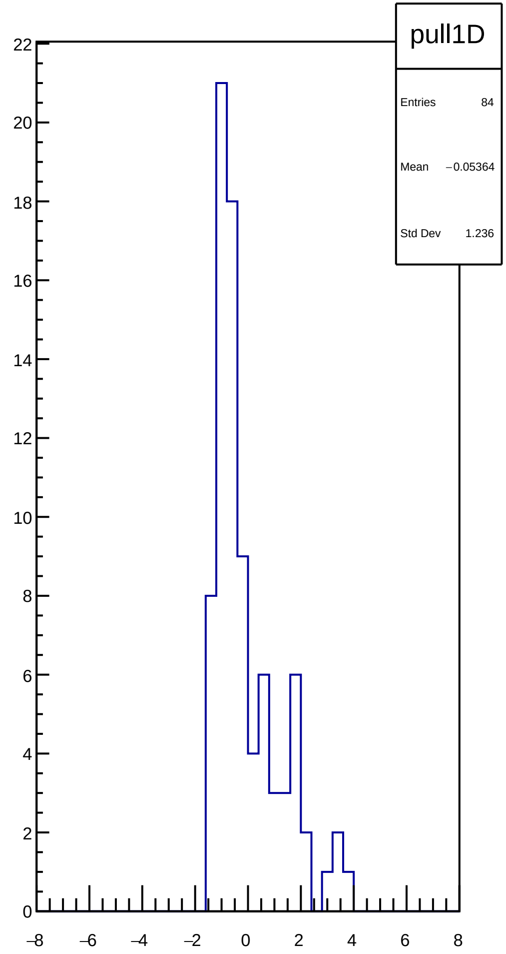
reg_asym_sam2_diff_bpm12X_slope vs run
χ2 / ndf 7.133 / 83
p0 1.679 ± 0.07962
pull
Entries 84
Mean −1275
Std Dev 1315
pull1D
Entries 84
Mean −0.001718
Std Dev 0.2914

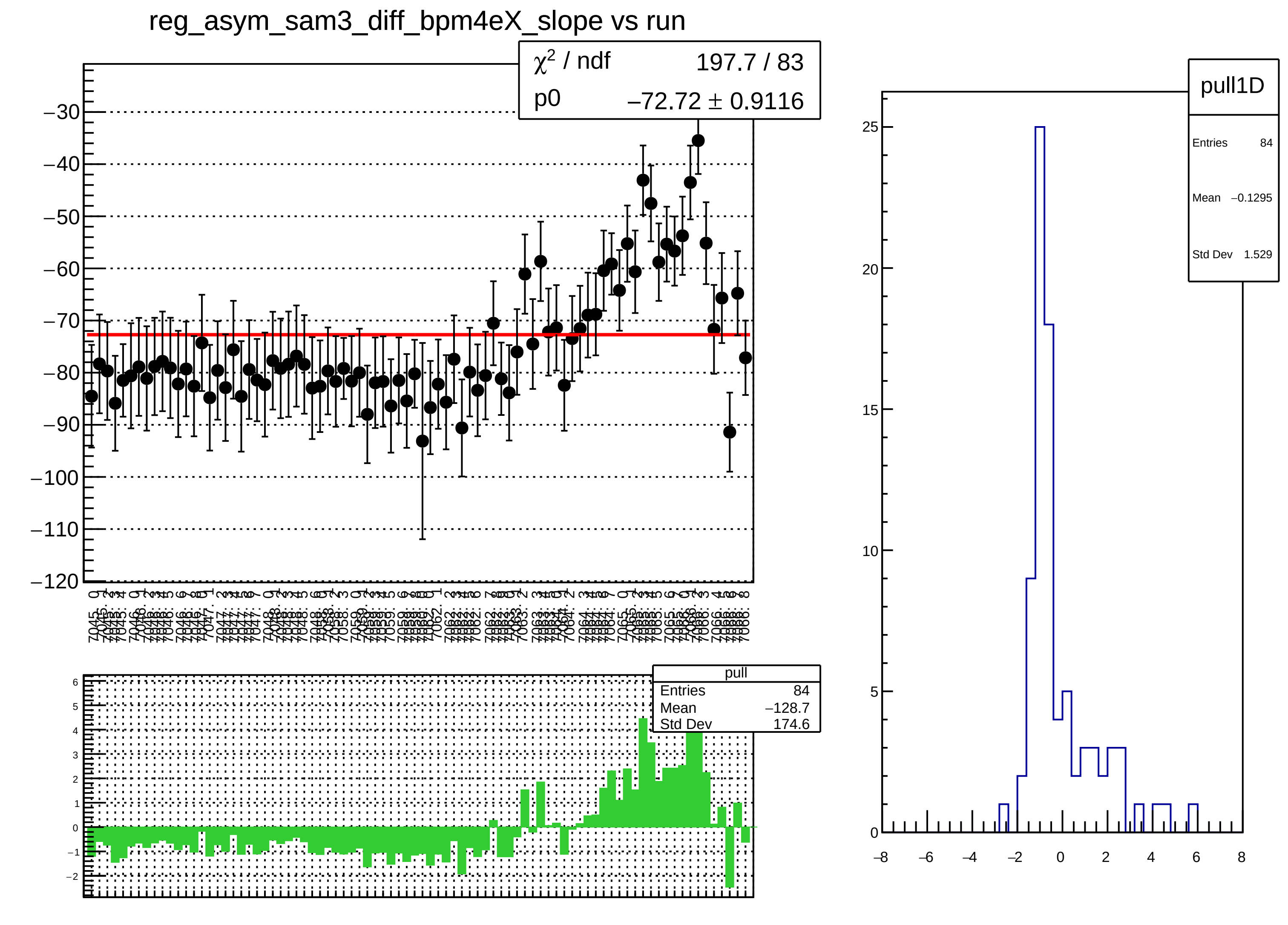
# reg_asym_sam3_diff_bpm1X_slope vs run



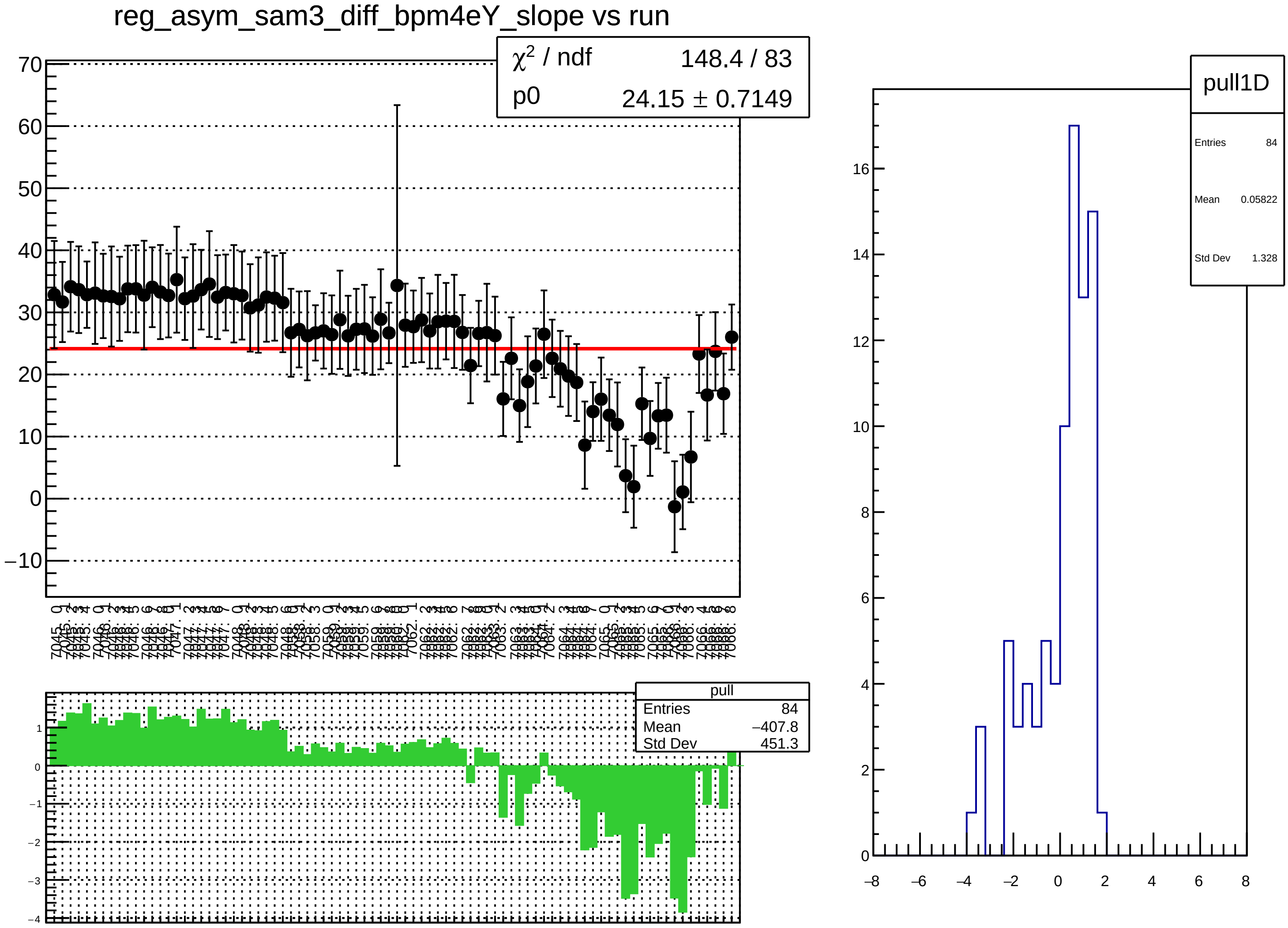
reg_asym_sam3_diff_bpm4aY_slope vs run



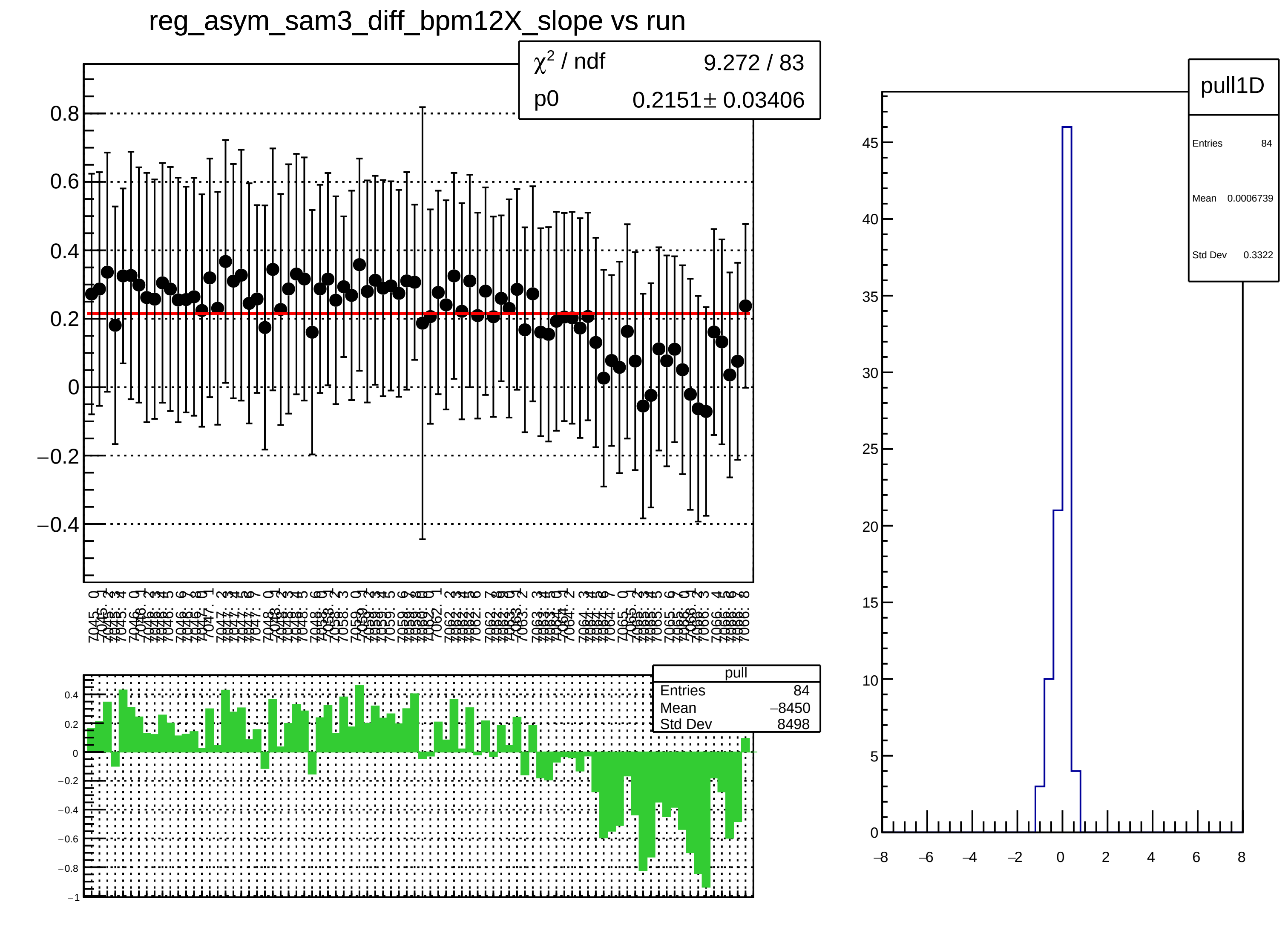





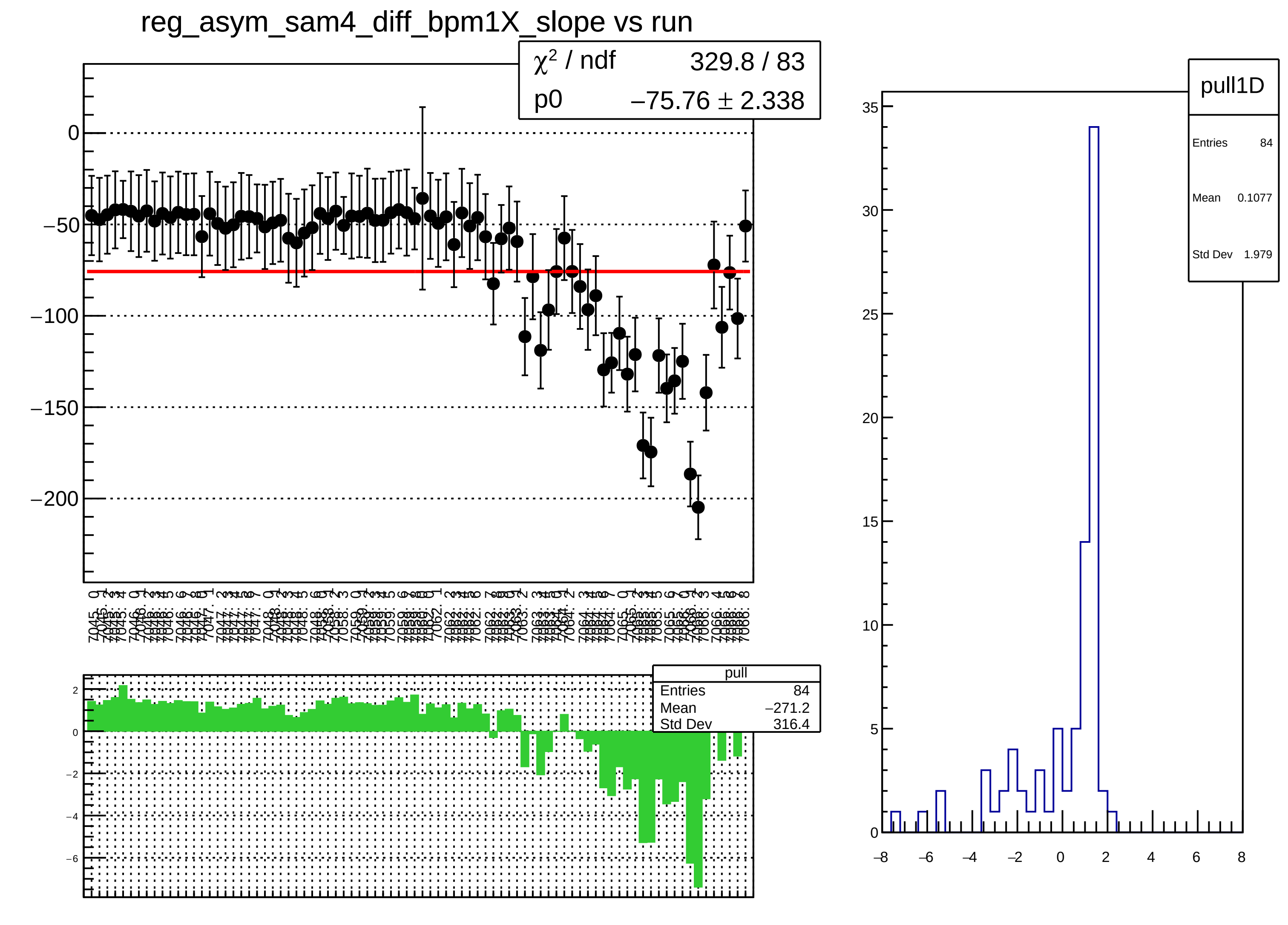
reg_asym_sam3_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 197.7 / 83
p0 −72.72 ± 0.9116
pull
Entries 84
Mean −128.7
Std Dev 174.6
pull1D
Entries 84
Mean −0.1295
Std Dev 1.529



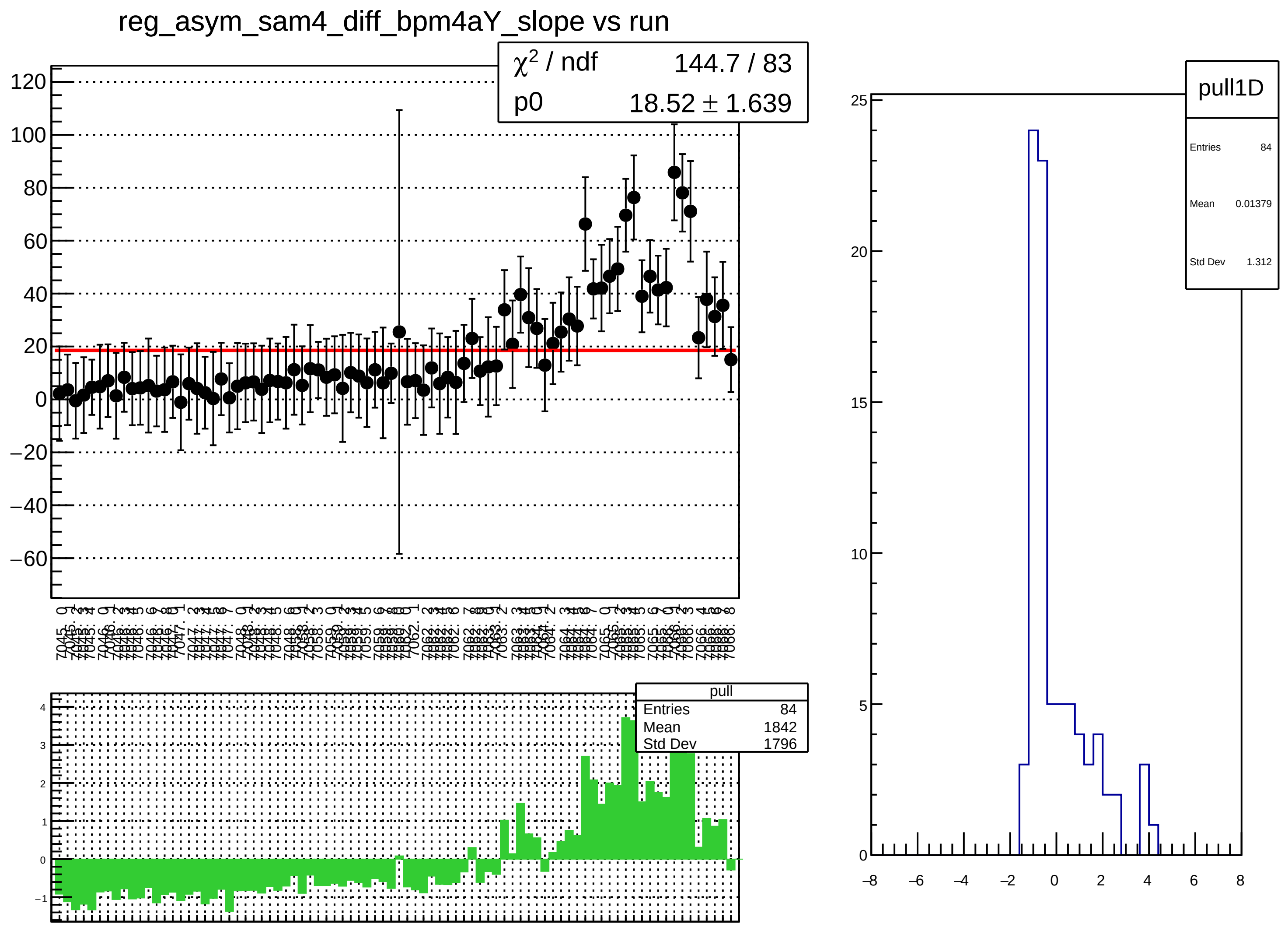
reg_asym_sam3_diff_bpm4eY_slope vs run
χ2 / ndf 148.4 / 83
p0 24.15 ± 0.7149
pull
Entries 84
Mean −407.8
Std Dev 451.3
pull1D
Entries 84
Mean 0.05822
Std Dev 1.328



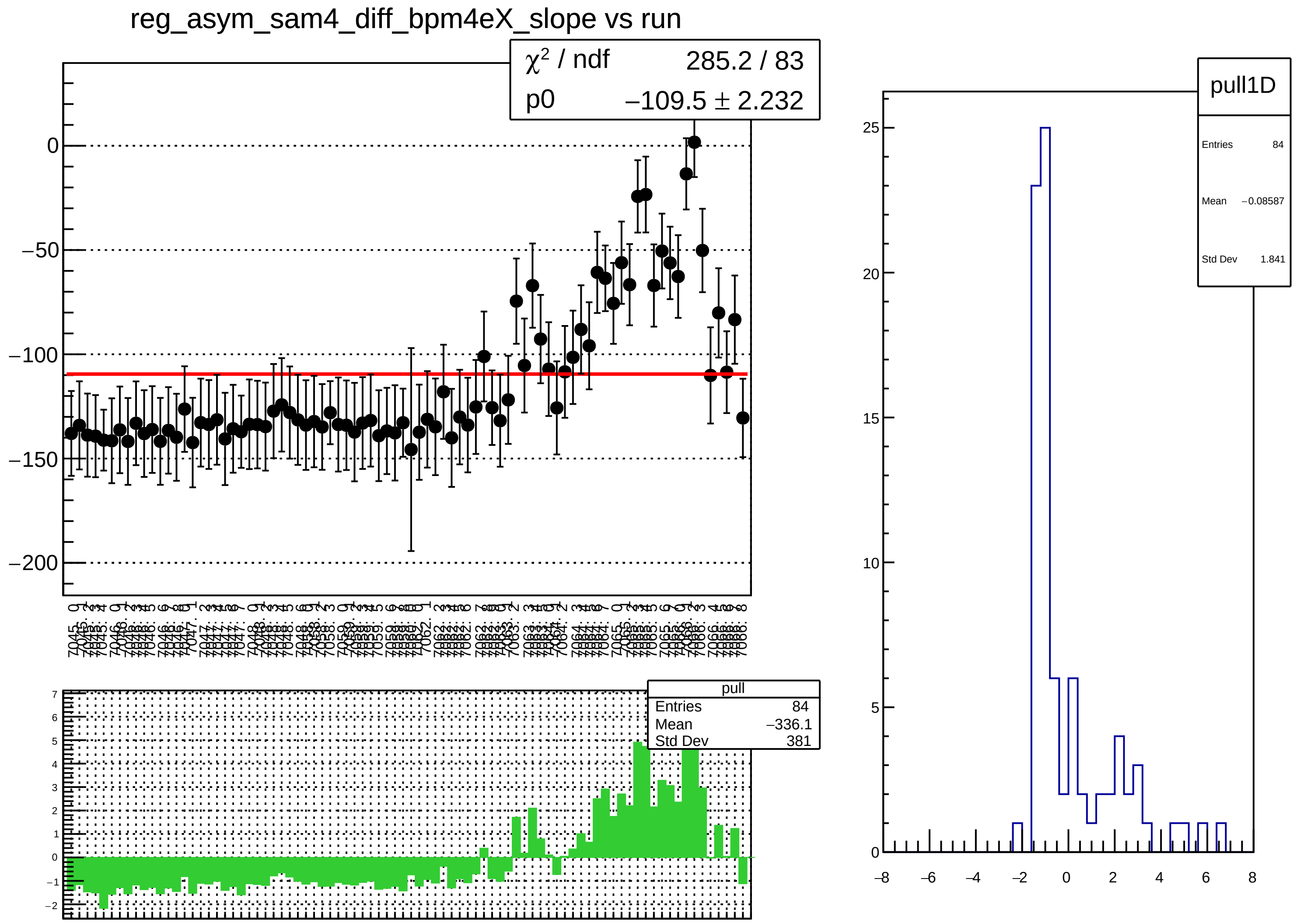
reg_asym_sam3_diff_bpm12X_slope vs run
$\chi^2$ / ndf 9.272 / 83
p0 0.2151± 0.03406
pull
Entries 84
Mean −8450
Std Dev 8498
pull1D
Entries 84
Mean 0.0006739
Std Dev 0.3322



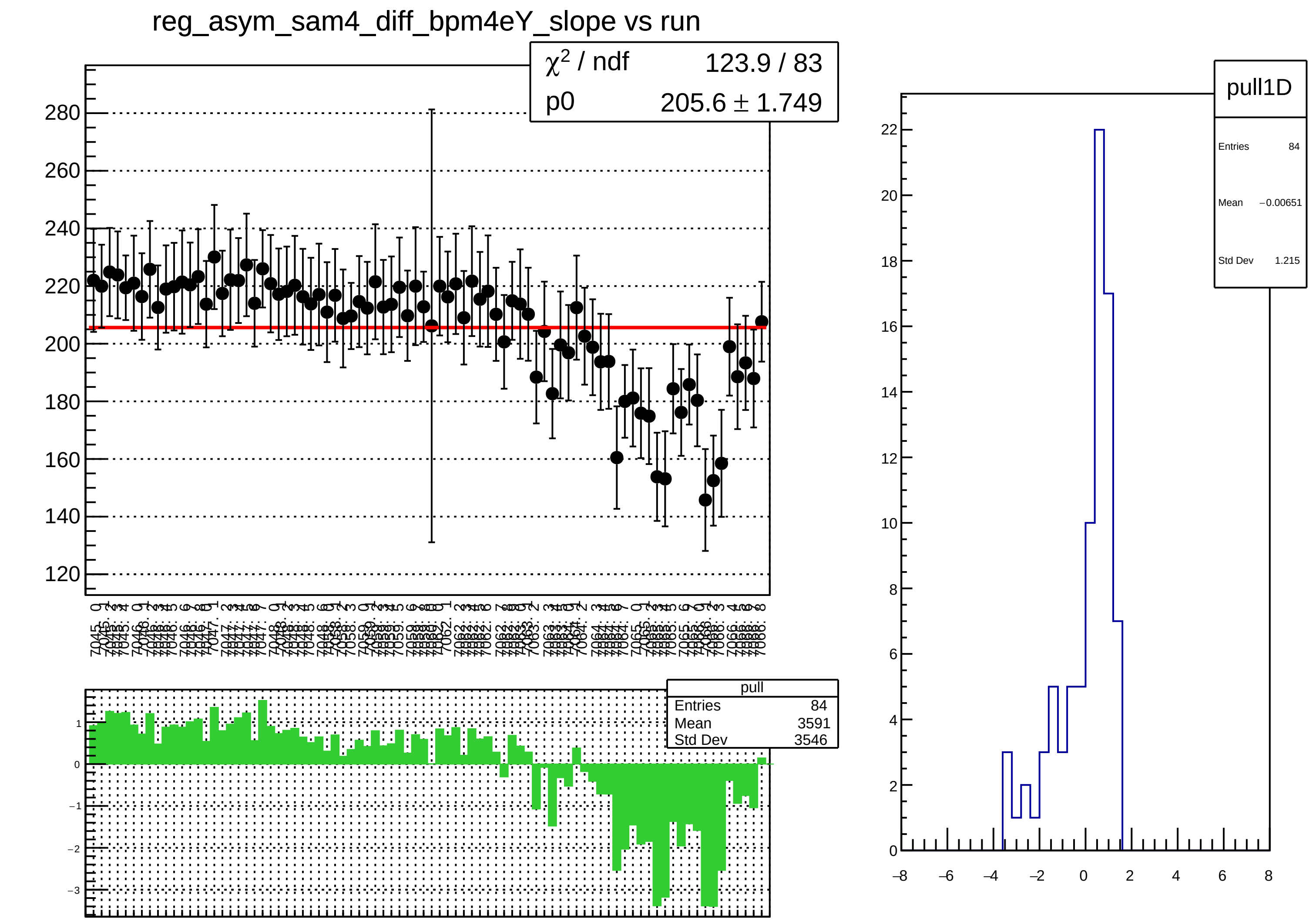
reg_asym_sam4_diff_bpm1X_slope vs run
$\chi^2$ / ndf 329.8 / 83
p0 −75.76 ± 2.338
0
−50
−100
−150
−200
pull
Entries 84
Mean −271.2
Std Dev 316.4
pull1D
Entries 84
Mean 0.1077
Std Dev 1.979



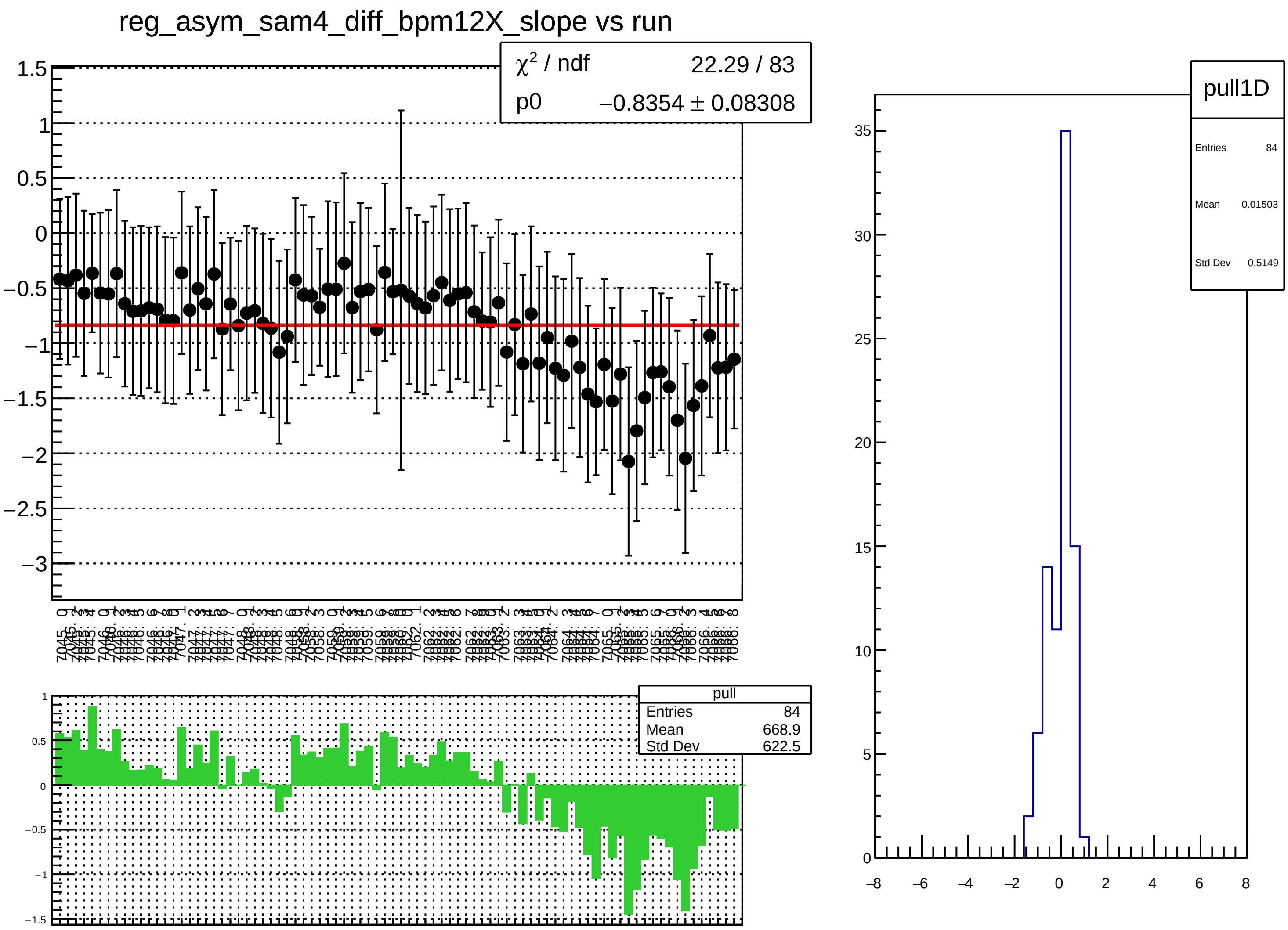
reg_asym_sam4_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 144.7 / 83
p0 18.52 ± 1.639
pull
Entries 84
Mean 1842
Std Dev 1796
pull1D
Entries 84
Mean 0.01379
Std Dev 1.312



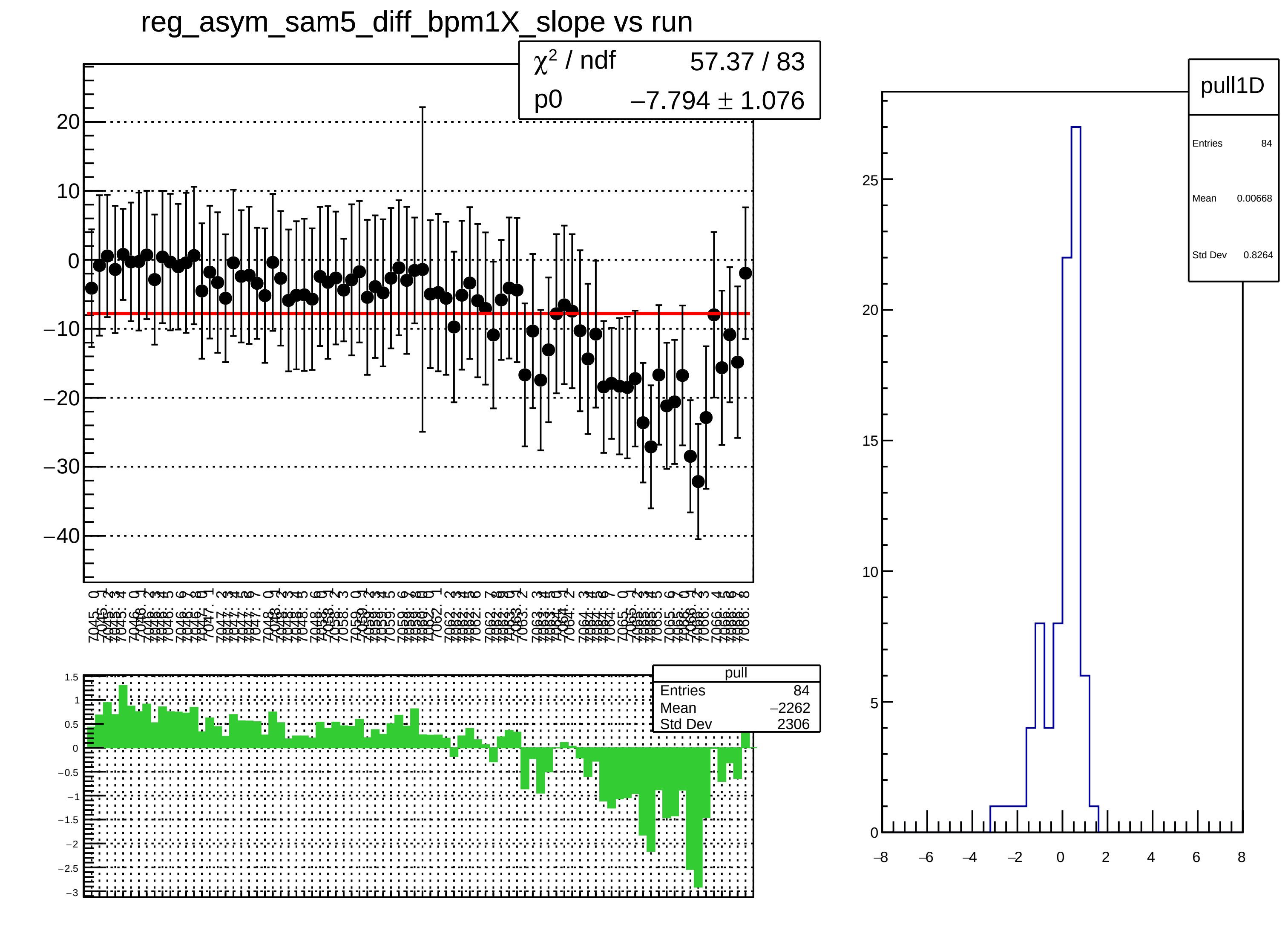
reg_asym_sam4_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 285.2 / 83
p0 −109.5 ± 2.232
pull
Entries 84
Mean −336.1
Std Dev 381
pull1D
Entries 84
Mean −0.08587
Std Dev 1.841



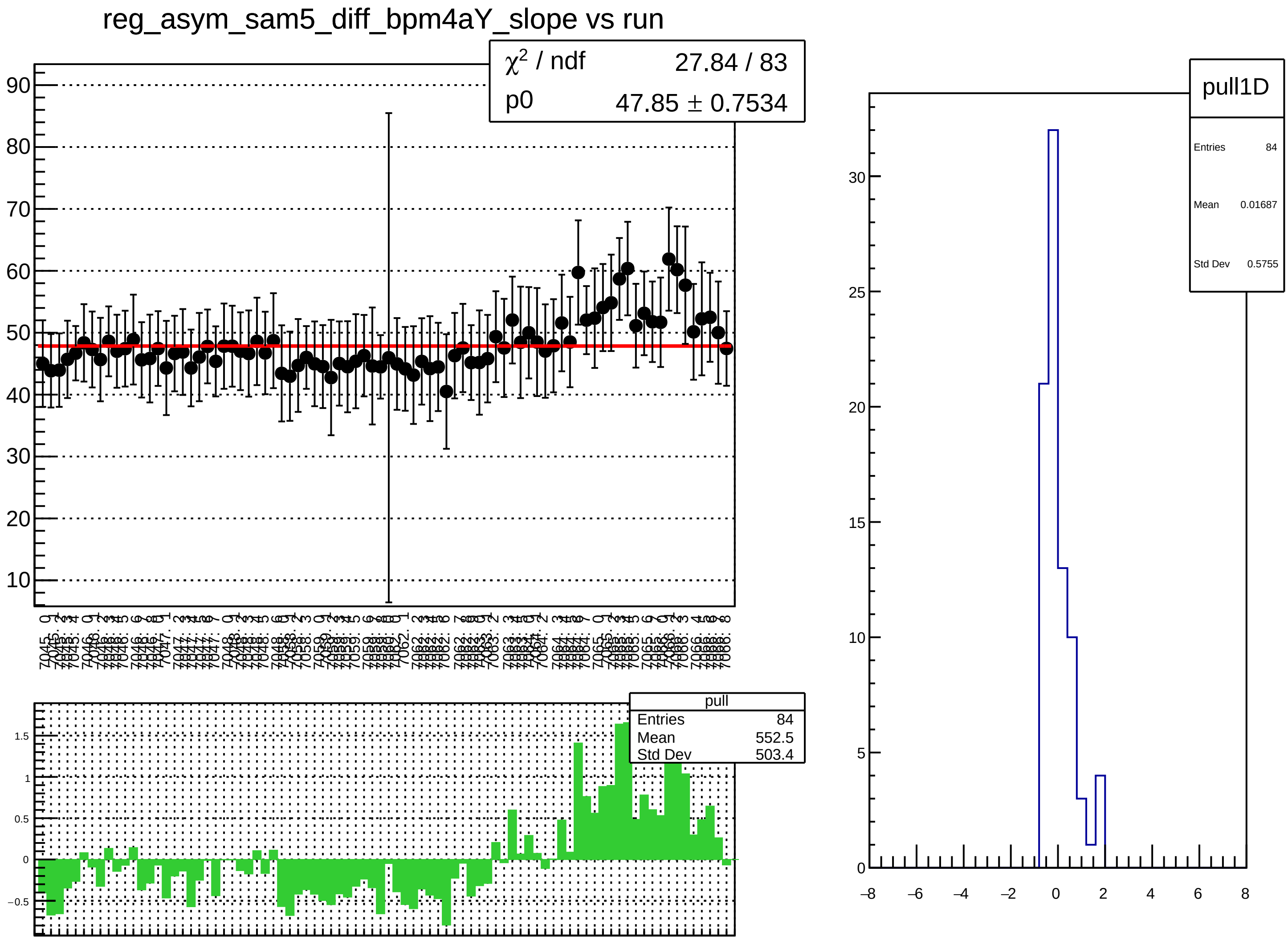
reg_asym_sam4_diff_bpm4eY_slope vs run
χ2 / ndf 123.9 / 83
p0 205.6 ± 1.749
pull
Entries 84
Mean 3591
Std Dev 3546
pull1D
Entries 84
Mean −0.00651
Std Dev 1.215



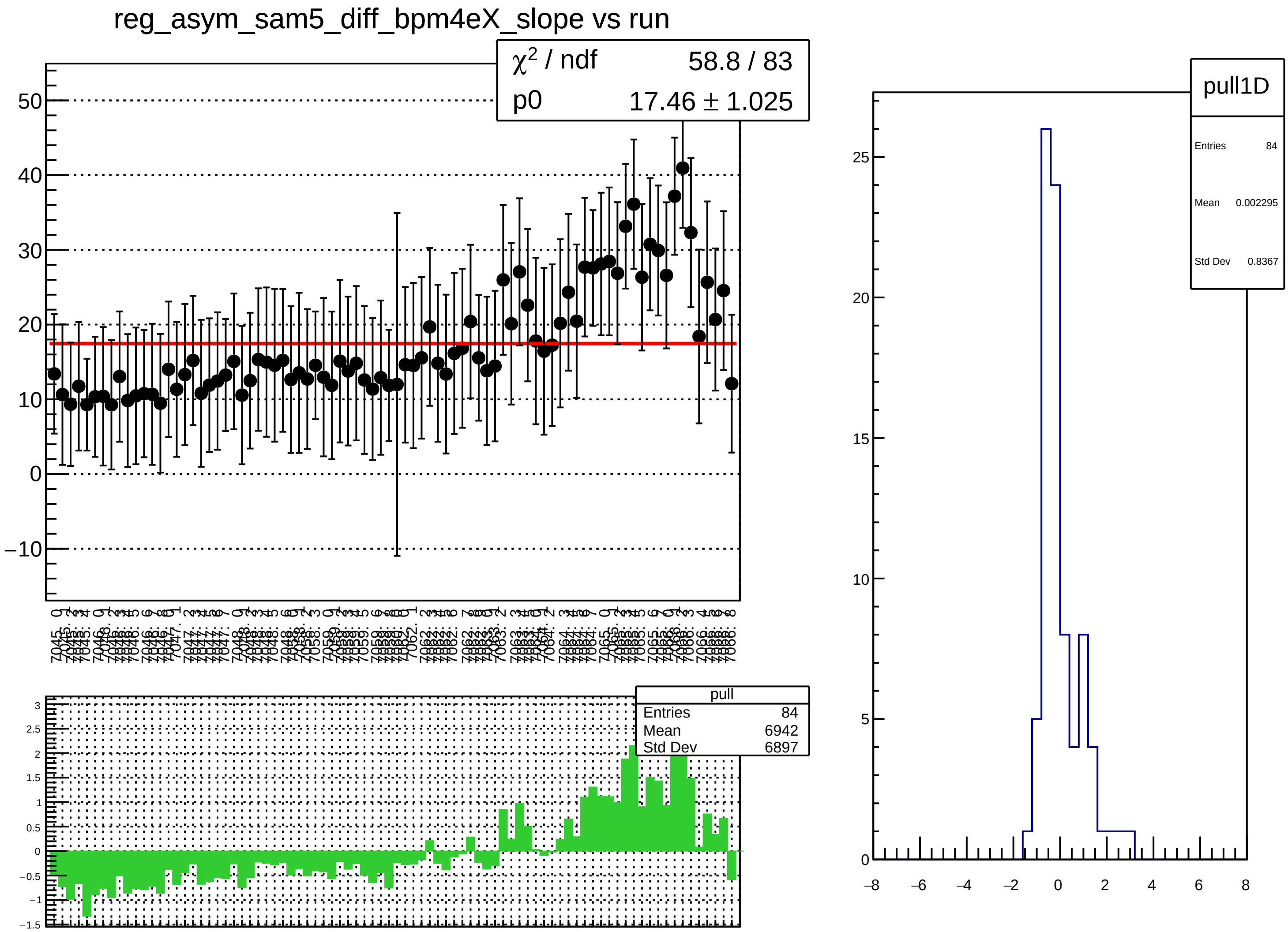
reg_asym_sam4_diff_bpm12X_slope vs run
$\chi^2$ / ndf 22.29 / 83
p0 −0.8354 ± 0.08308
pull
Entries 84
Mean 668.9
Std Dev 622.5
pull1D
Entries 84
Mean −0.01503
Std Dev 0.5149



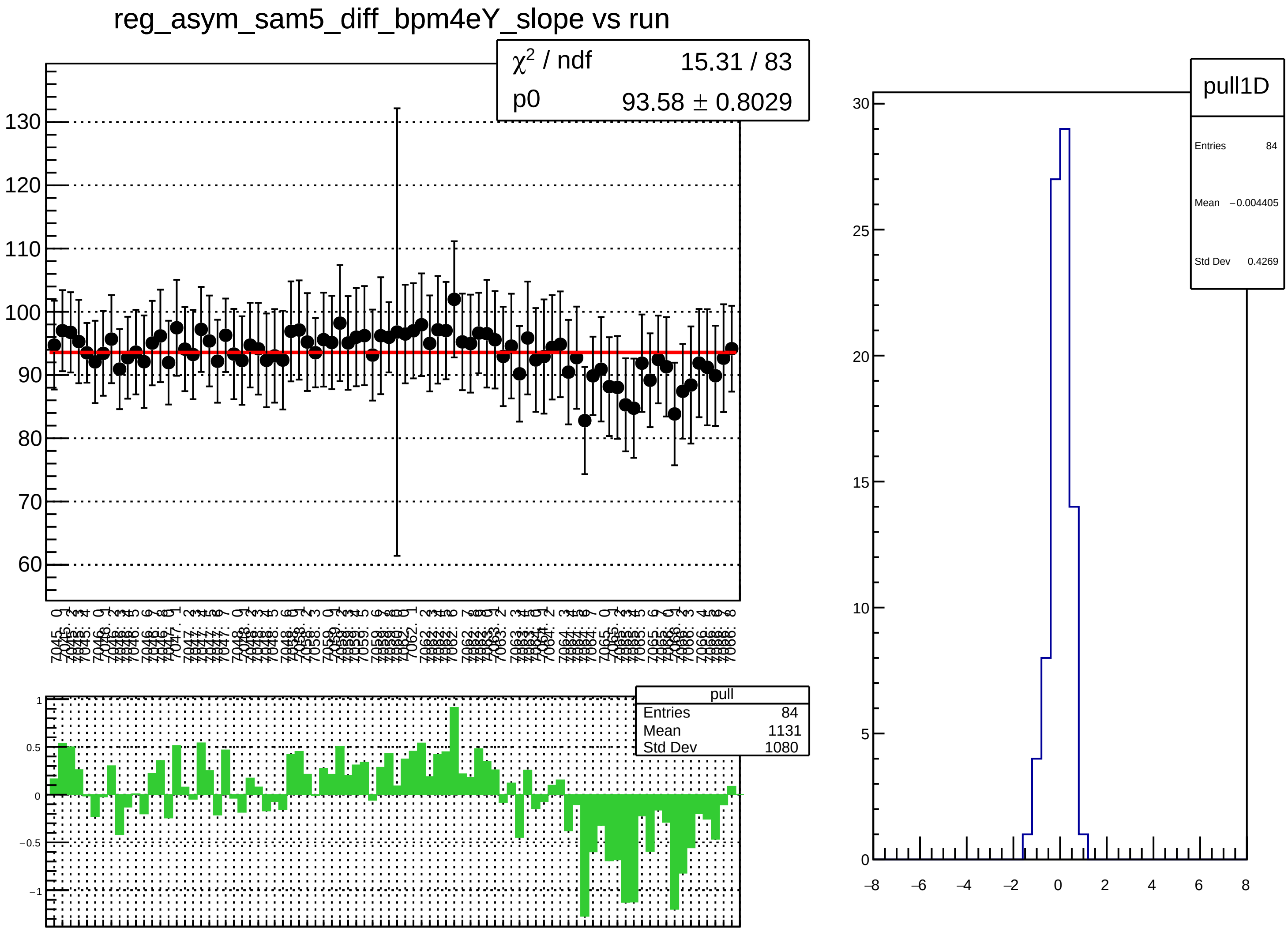
reg_asym_sam5_diff_bpm1X_slope vs run
χ2 / ndf 57.37 / 83
p0 −7.794 ± 1.076
pull
Entries 84
Mean −2262
Std Dev 2306
pull1D
Entries 84
Mean 0.00668
Std Dev 0.8264



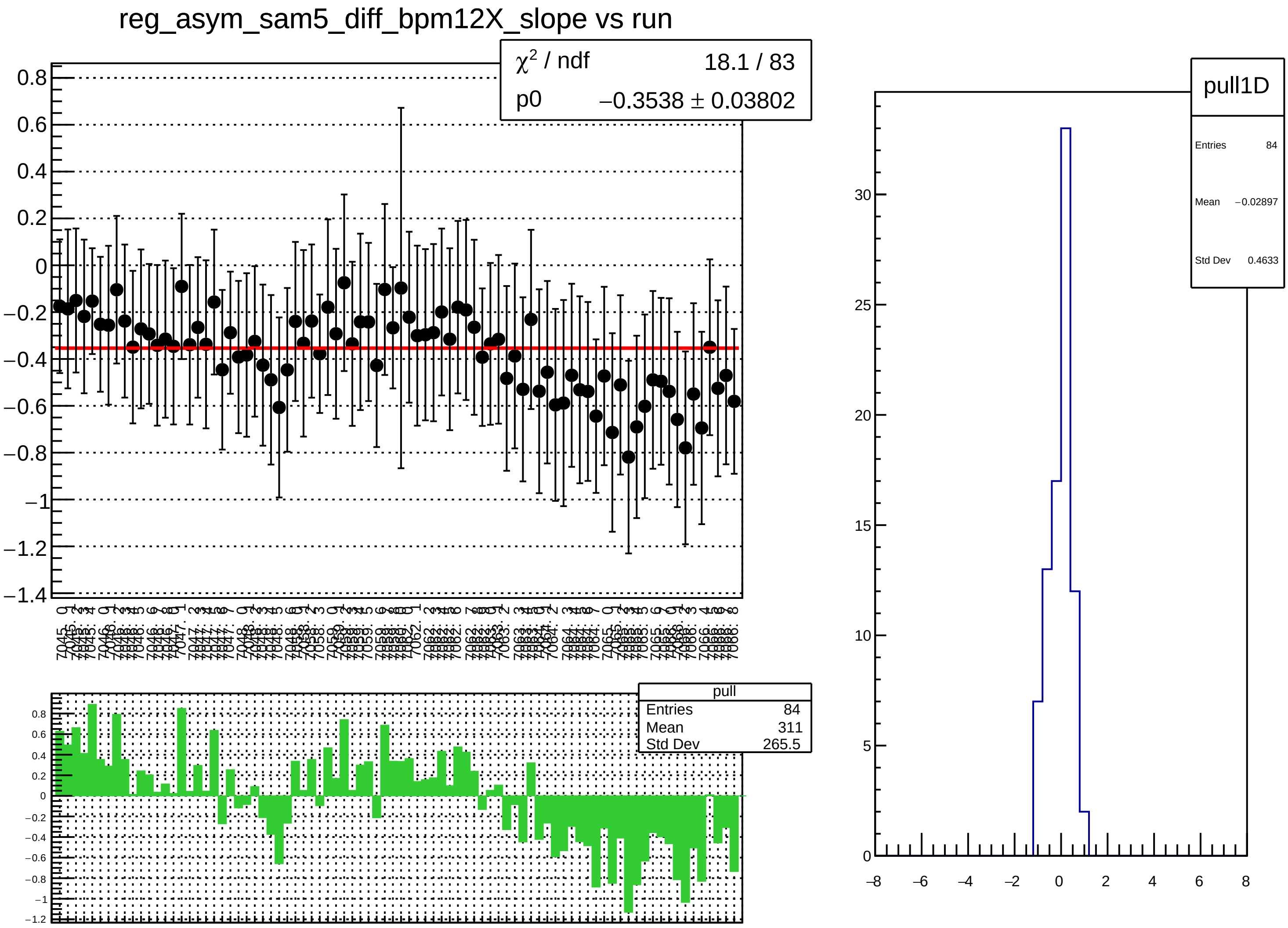
reg_asym_sam5_diff_bpm4aY_slope vs run
χ2 / ndf 27.84 / 83
p0 47.85 ± 0.7534
pull
Entries 84
Mean 552.5
Std Dev 503.4
pull1D
Entries 84
Mean 0.01687
Std Dev 0.5755



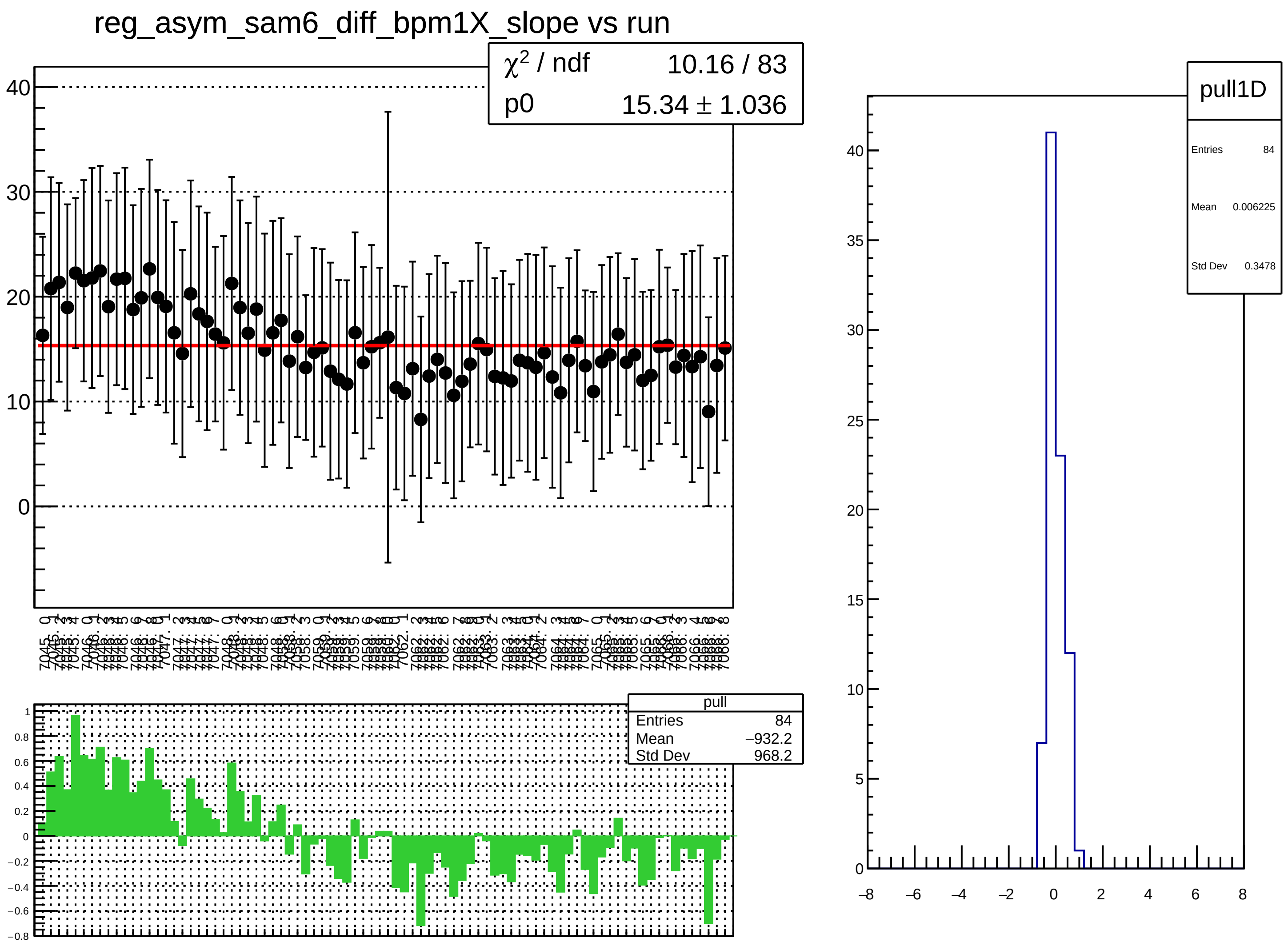
reg_asym_sam5_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 58.8 / 83
p0 17.46 ± 1.025
pull
Entries 84
Mean 6942
Std Dev 6897
pull1D
Entries 84
Mean 0.002295
Std Dev 0.8367

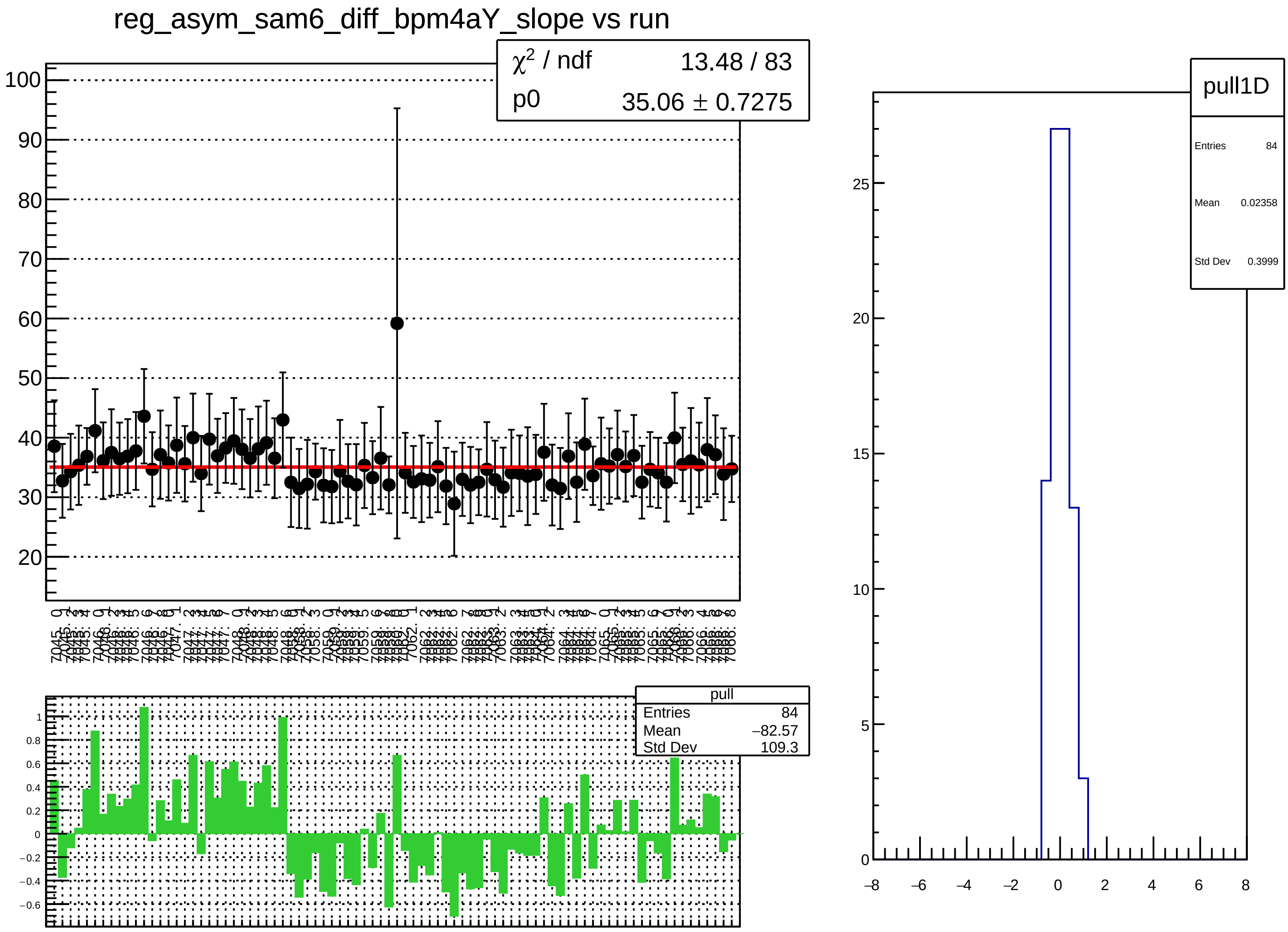


reg_asym_sam5_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 15.31 / 83
p0 93.58 ± 0.8029
130
120
110
100
90
80
70
60
pull
Entries 84
Mean 1131
Std Dev 1080
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean −0.004405
Std Dev 0.4269
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

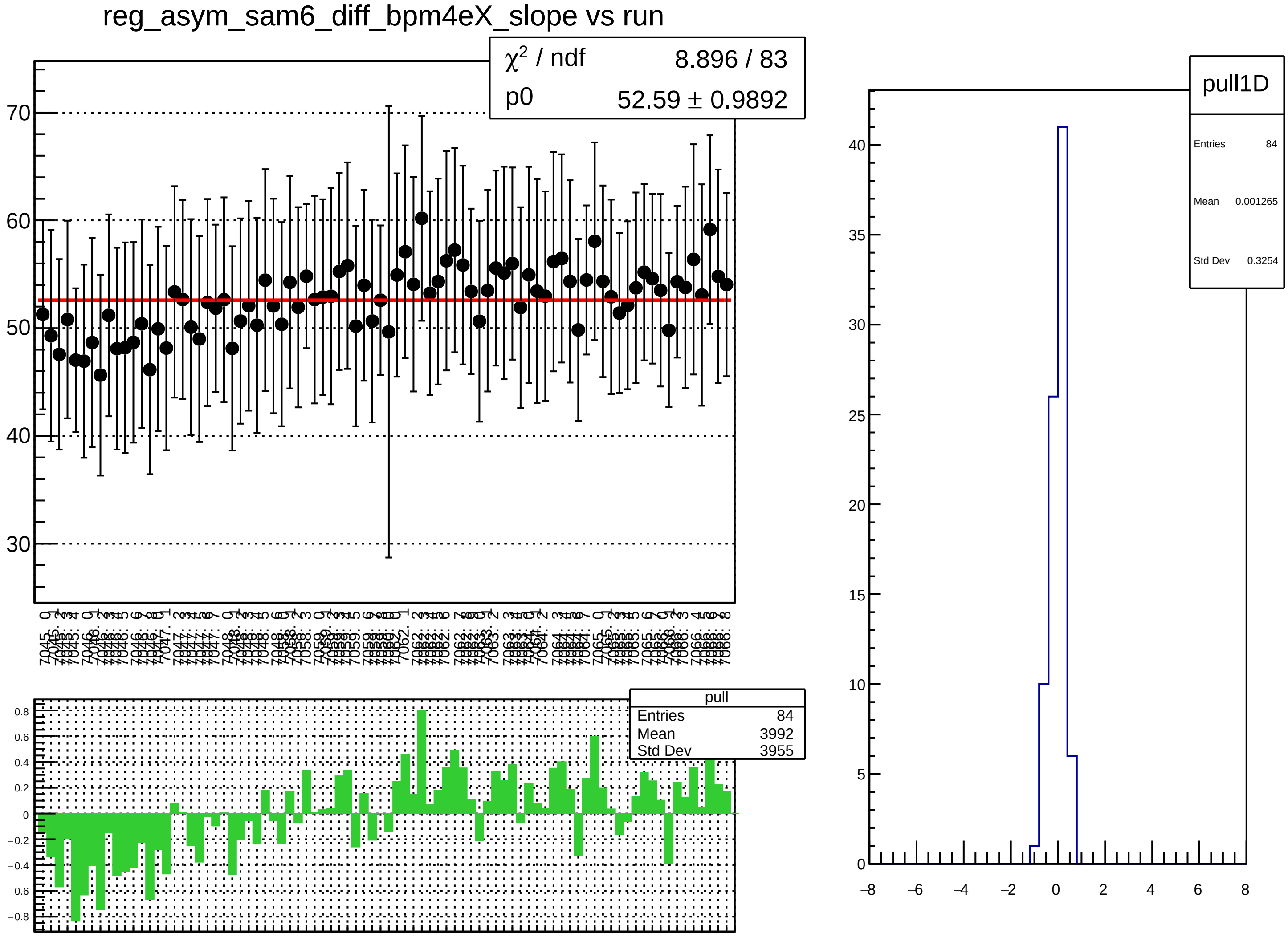


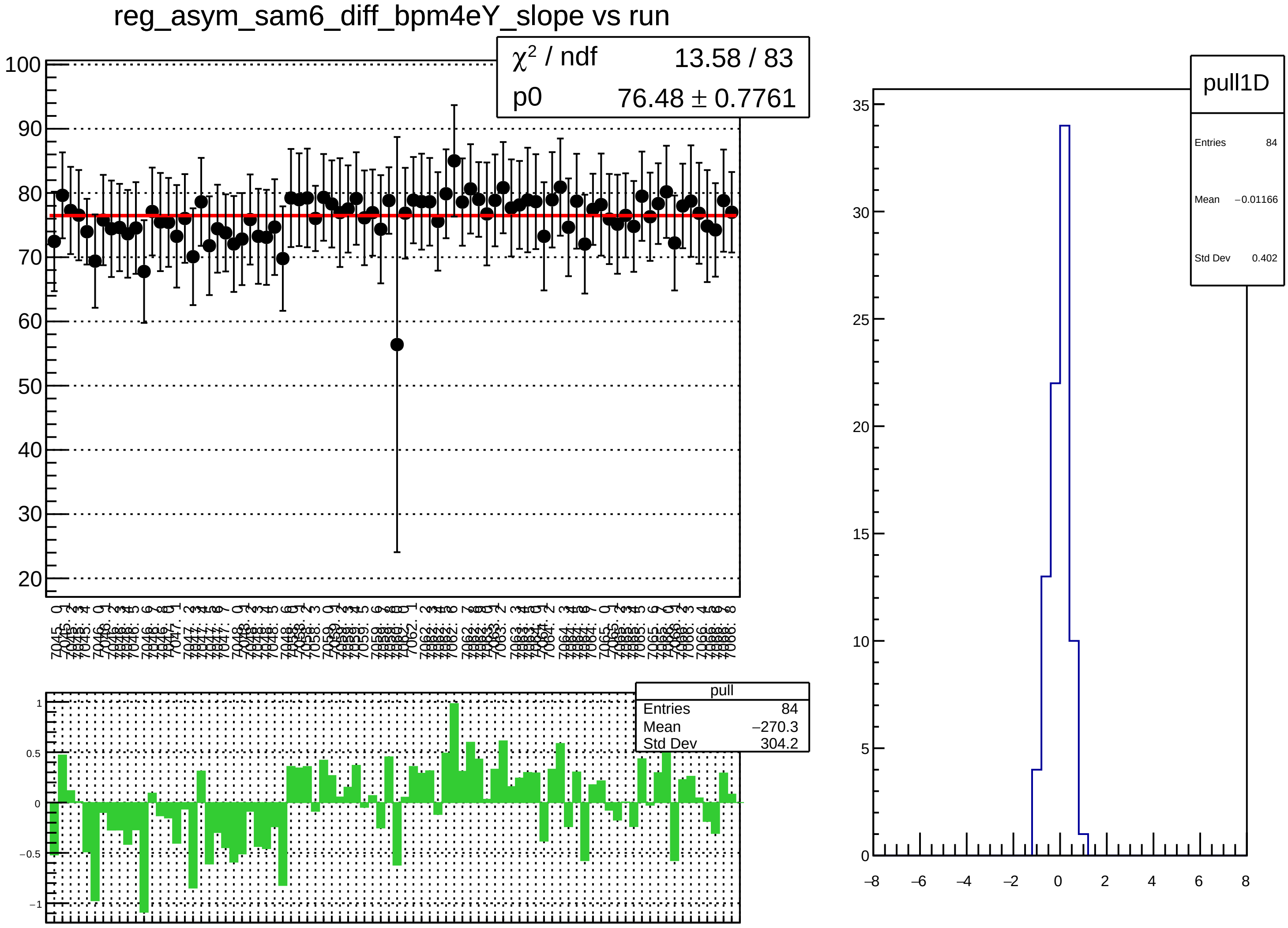
reg_asym_sam5_diff_bpm12X_slope vs run
$\chi^2$ / ndf 18.1 / 83
p0 −0.3538 ± 0.03802
pull
Entries 84
Mean 311
Std Dev 265.5
pull1D
Entries 84
Mean −0.02897
Std Dev 0.4633

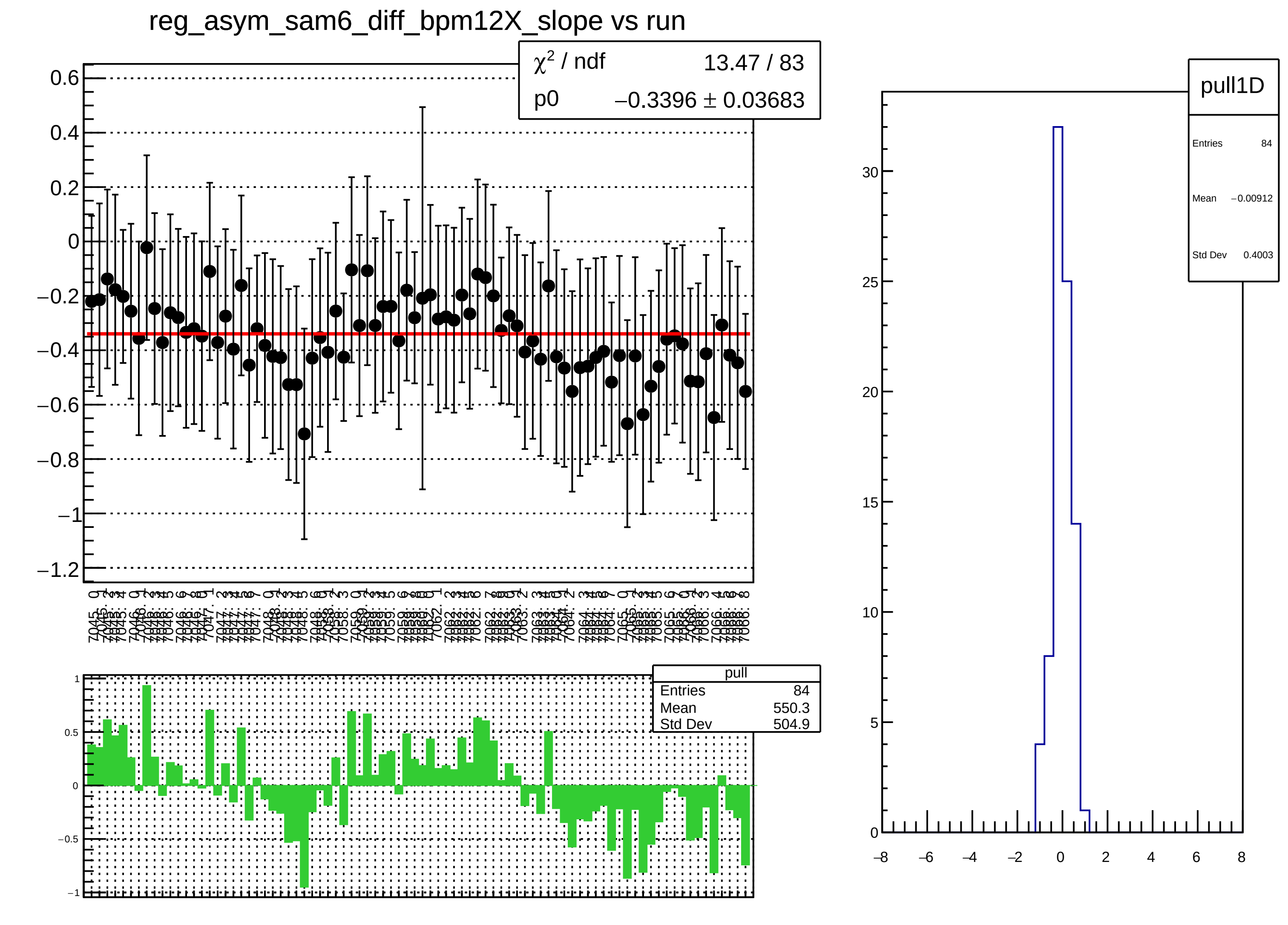

reg_asym_sam6_diff_bpm1X_slope vs run
$\chi^2$ / ndf 10.16 / 83
p0 15.34 ± 1.036
pull
Entries 84
Mean −932.2
Std Dev 968.2
pull1D
Entries 84
Mean 0.006225
Std Dev 0.3478



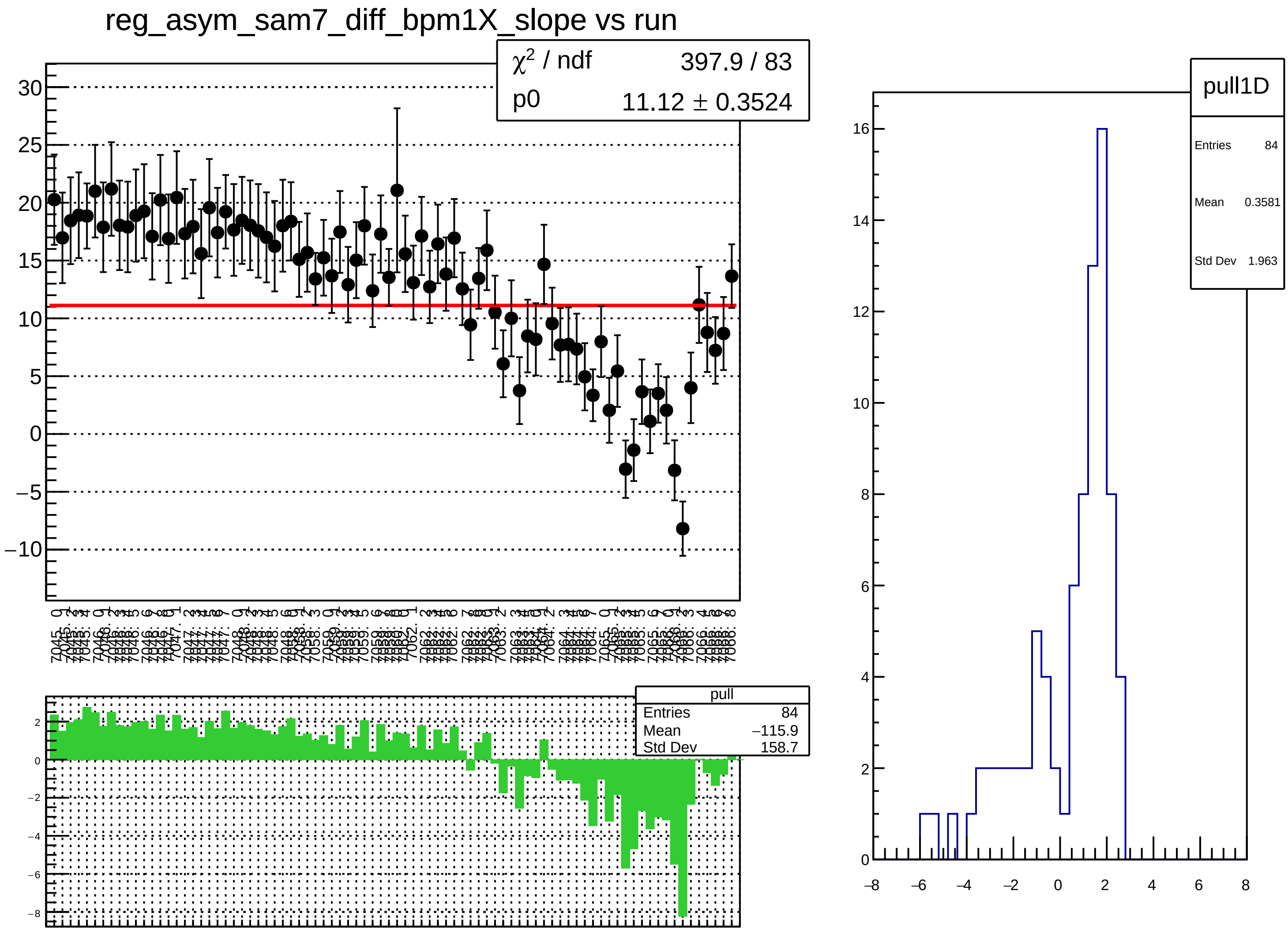
reg_asym_sam6_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 13.48 / 83
p0 35.06 ± 0.7275
pull
Entries 84
Mean −82.57
Std Dev 109.3
pull1D
Entries 84
Mean 0.02358
Std Dev 0.3999


reg_asym_sam6_diff_bpm4eX_slope vs run
χ2 / ndf 8.896 / 83
p0 52.59 ± 0.9892
70
60
50
40
30
pull
Entries 84
Mean 3992
Std Dev 3955
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 84
Mean 0.001265
Std Dev 0.3254
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

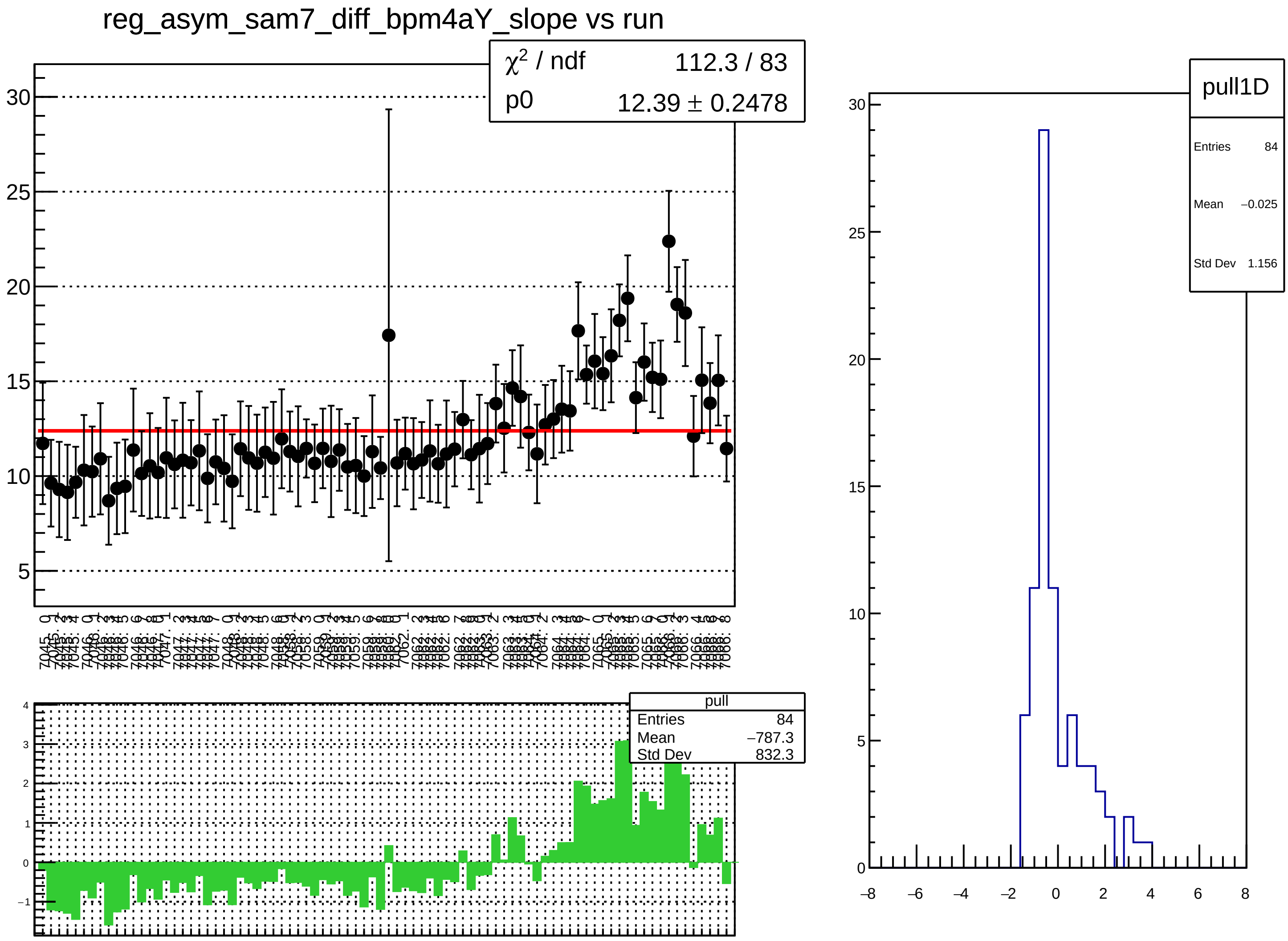

reg_asym_sam6_diff_bpm4eY_slope vs run
χ2 / ndf 13.58 / 83
p0 76.48 ± 0.7761
pull
Entries 84
Mean −270.3
Std Dev 304.2
pull1D
Entries 84
Mean −0.01166
Std Dev 0.402

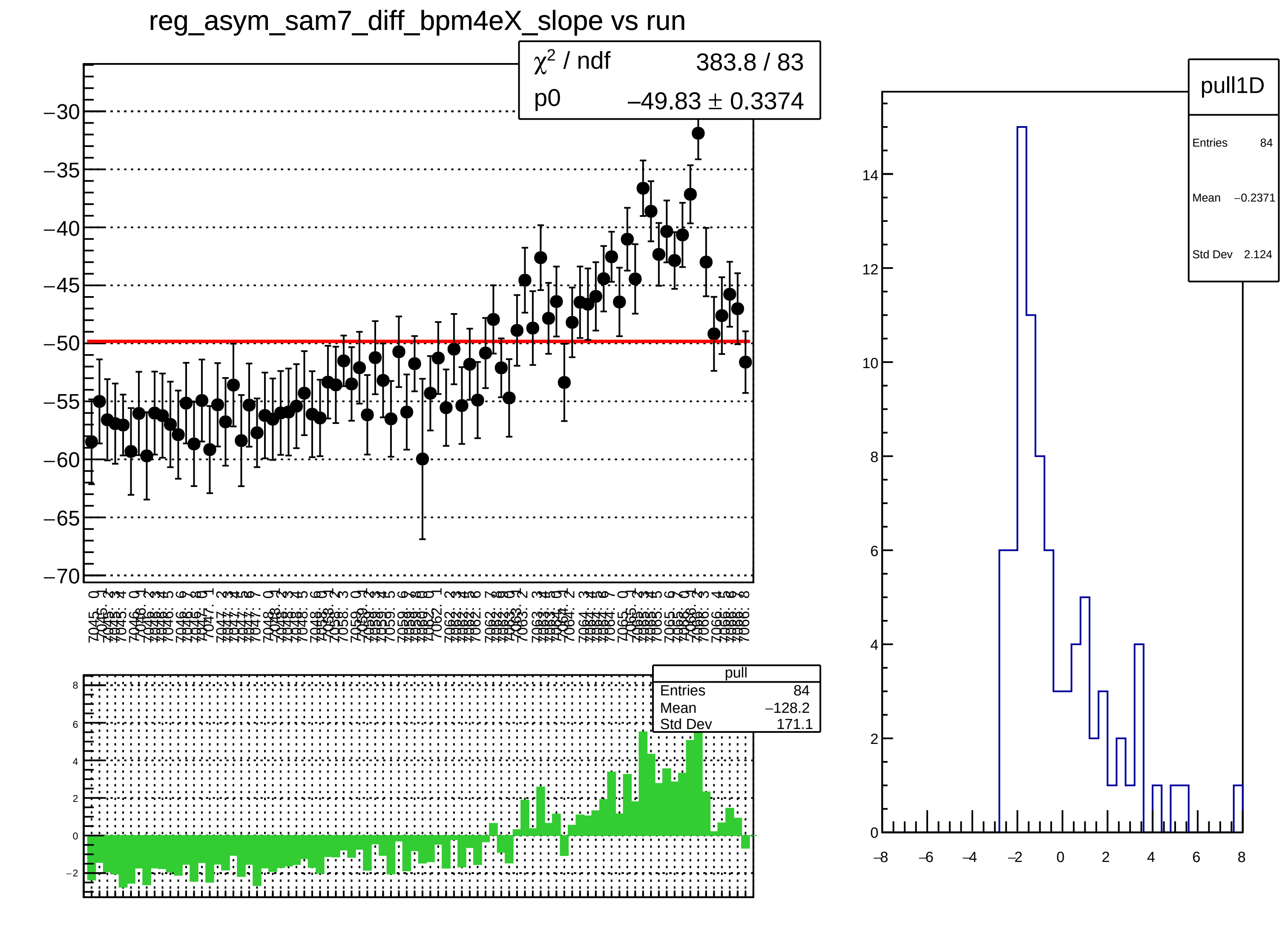


reg_asym_sam6_diff_bpm12X_slope vs run
χ2 / ndf 13.47 / 83
p0 −0.3396 ± 0.03683
pull
Entries 84
Mean 550.3
Std Dev 504.9
pull1D
Entries 84
Mean −0.00912
Std Dev 0.4003

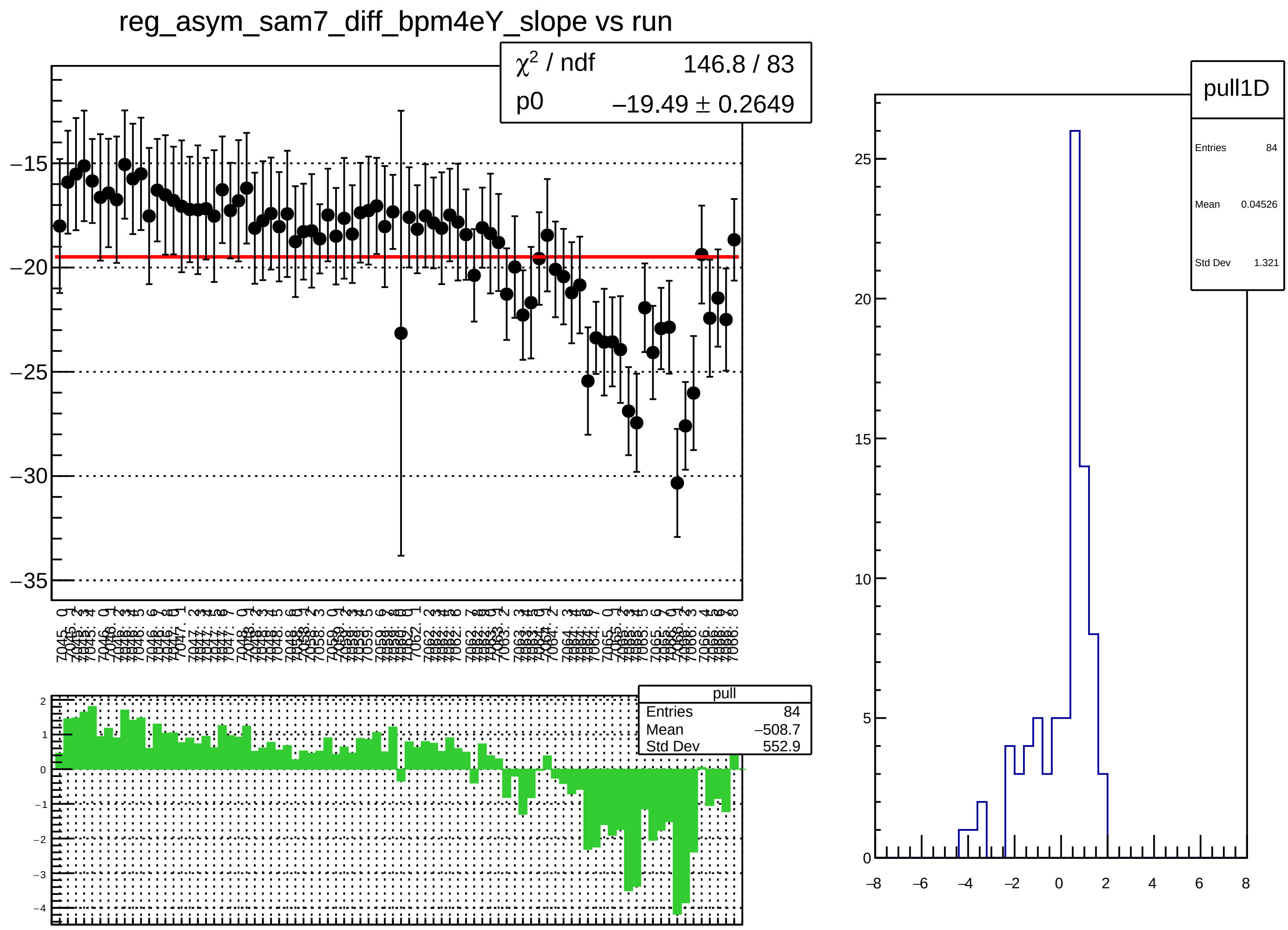


reg_asym_sam7_diff_bpm1X_slope vs run
$\chi^2$ / ndf 397.9 / 83
p0 11.12 ± 0.3524
pull
Entries 84
Mean −115.9
Std Dev 158.7
pull1D
Entries 84
Mean 0.3581
Std Dev 1.963

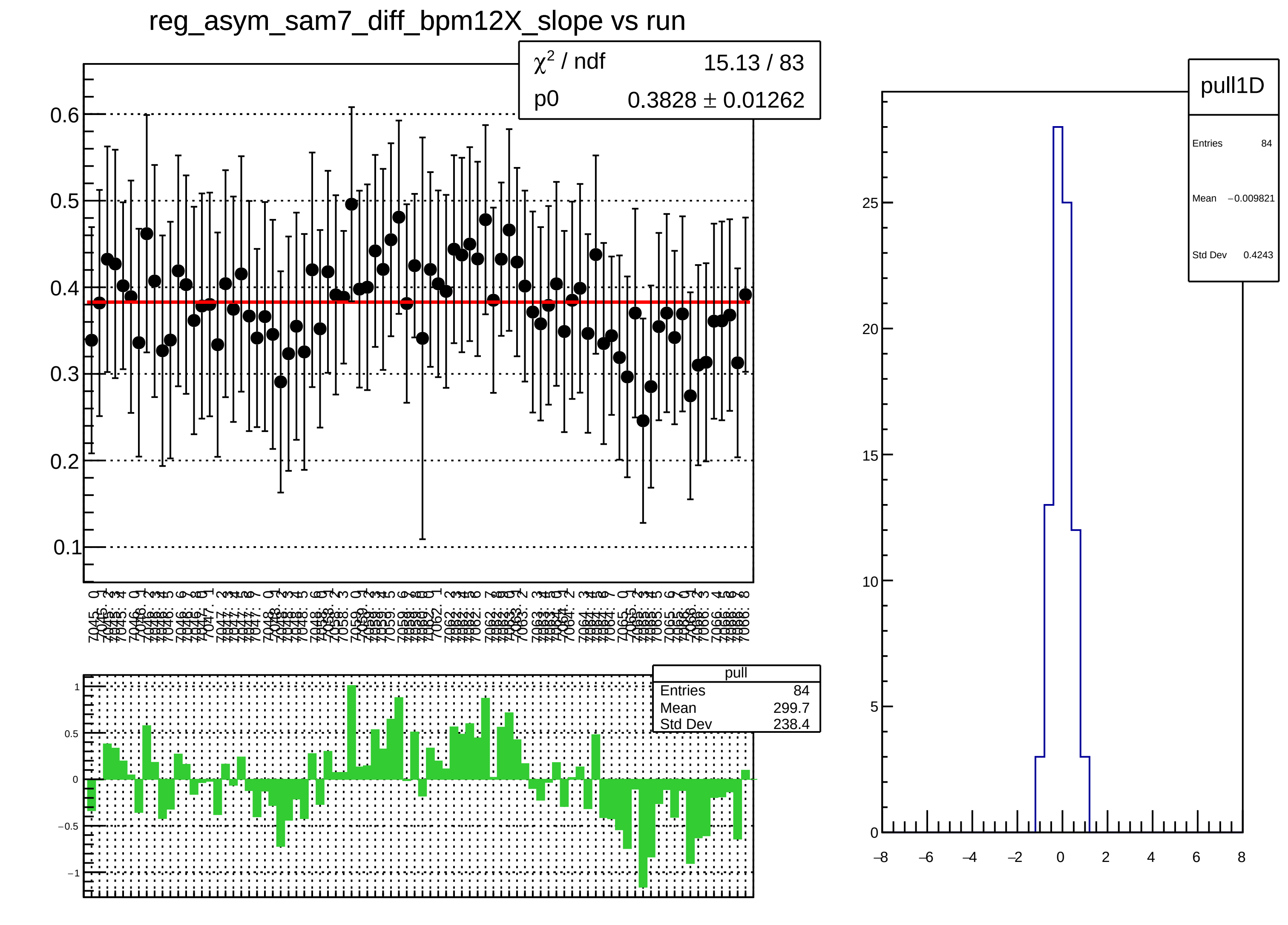

reg_asym_sam7_diff_bpm4aY_slope vs run
χ2 / ndf 112.3 / 83
p0 12.39 ± 0.2478
pull
Entries 84
Mean −787.3
Std Dev 832.3
pull1D
Entries 84
Mean −0.025
Std Dev 1.156



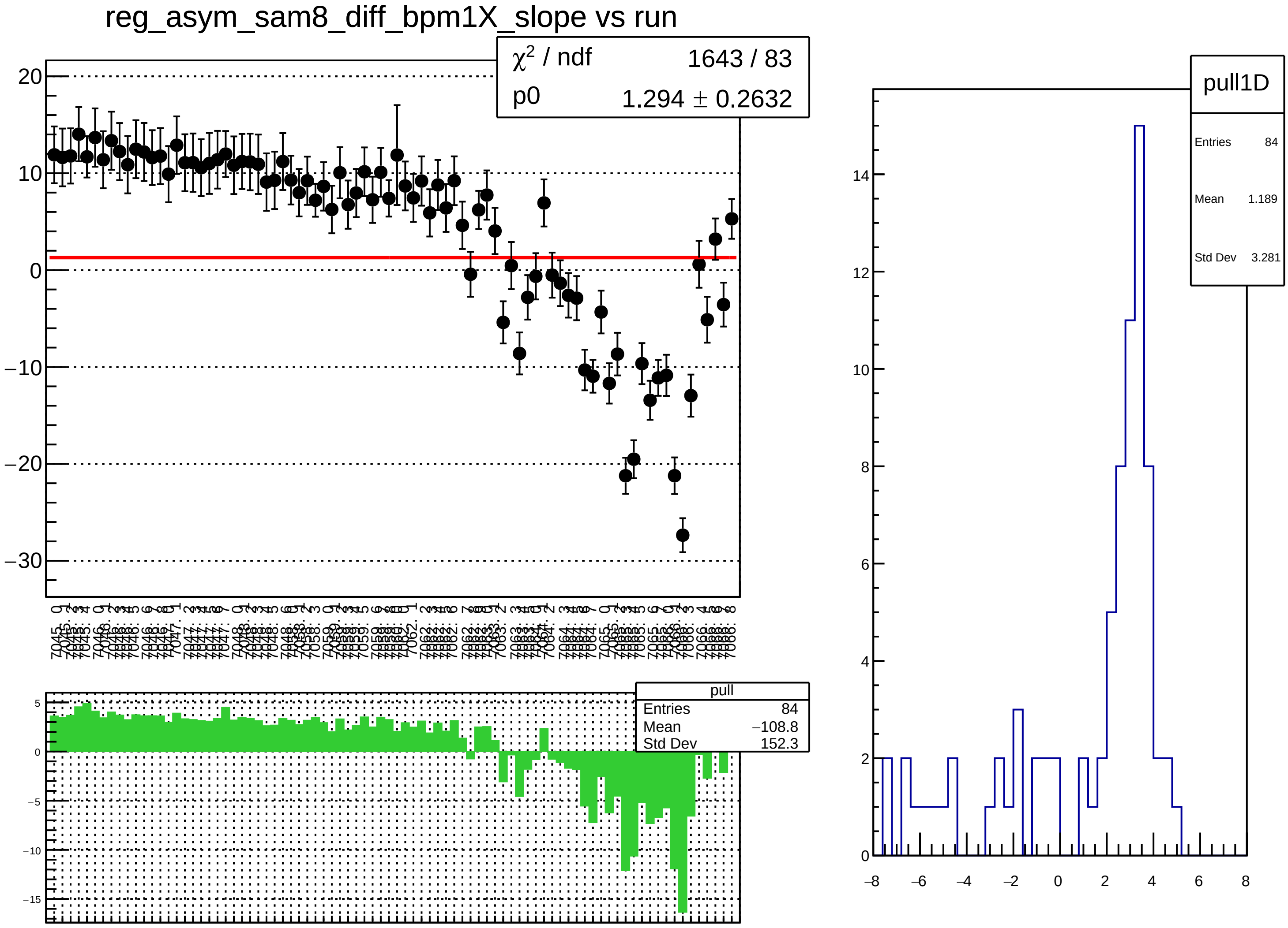
reg_asym_sam7_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 383.8 / 83
p0 −49.83 ± 0.3374
pull
Entries 84
Mean −128.2
Std Dev 171.1
pull1D
Entries 84
Mean −0.2371
Std Dev 2.124



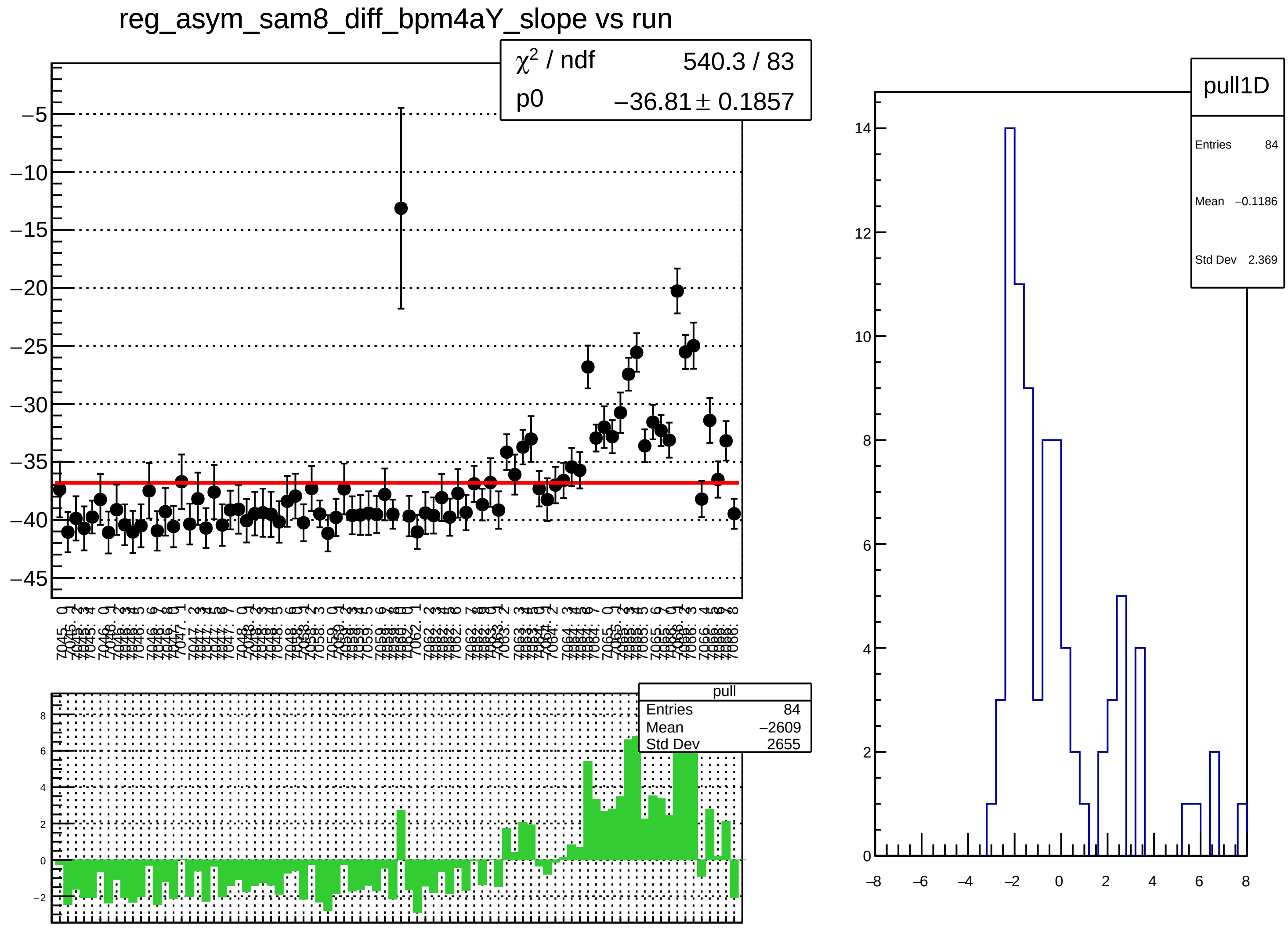
reg_asym_sam7_diff_bpm4eY_slope vs run
χ2 / ndf 146.8 / 83
p0 −19.49 ± 0.2649
pull
Entries 84
Mean −508.7
Std Dev 552.9
pull1D
Entries 84
Mean 0.04526
Std Dev 1.321

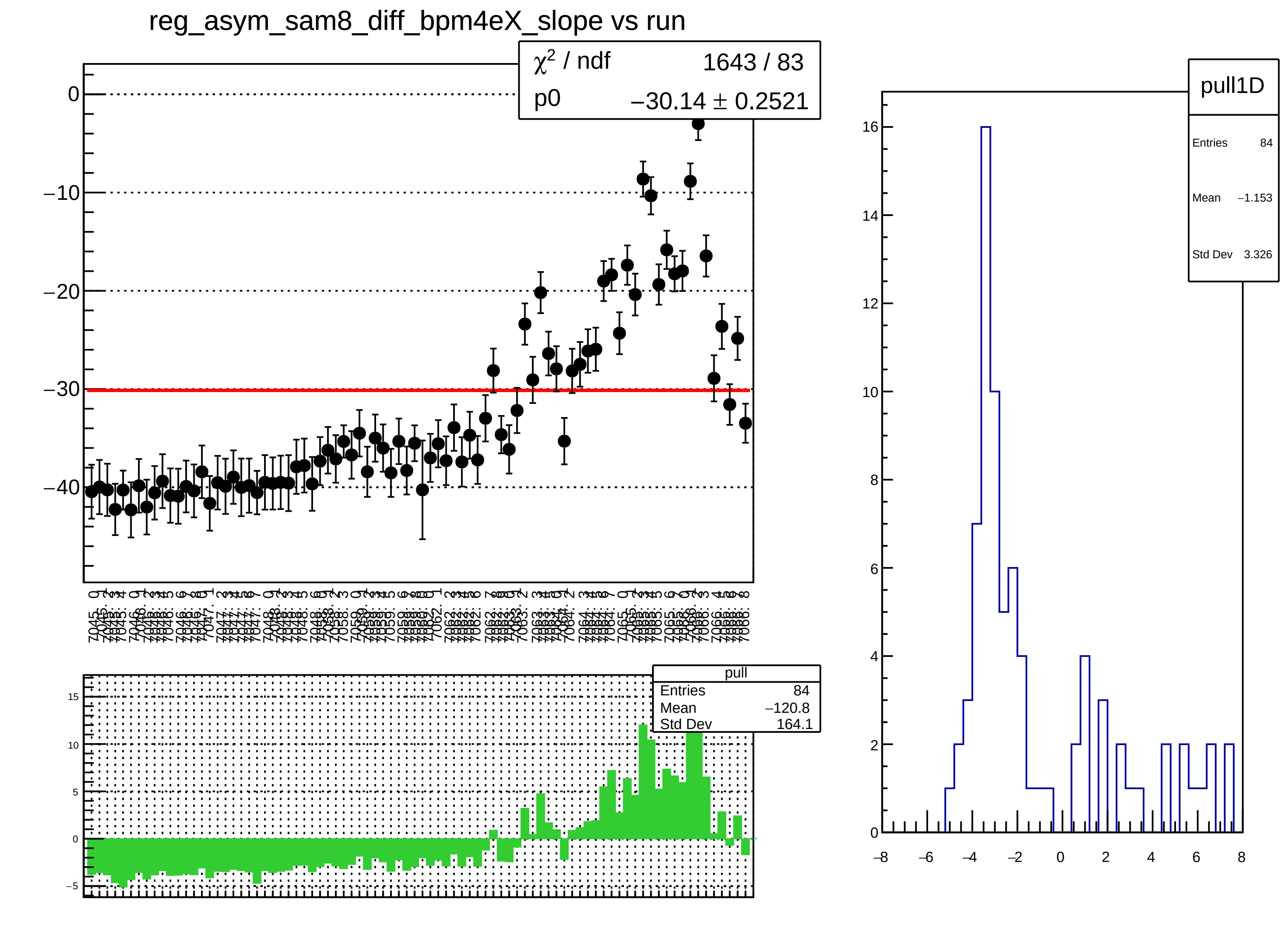


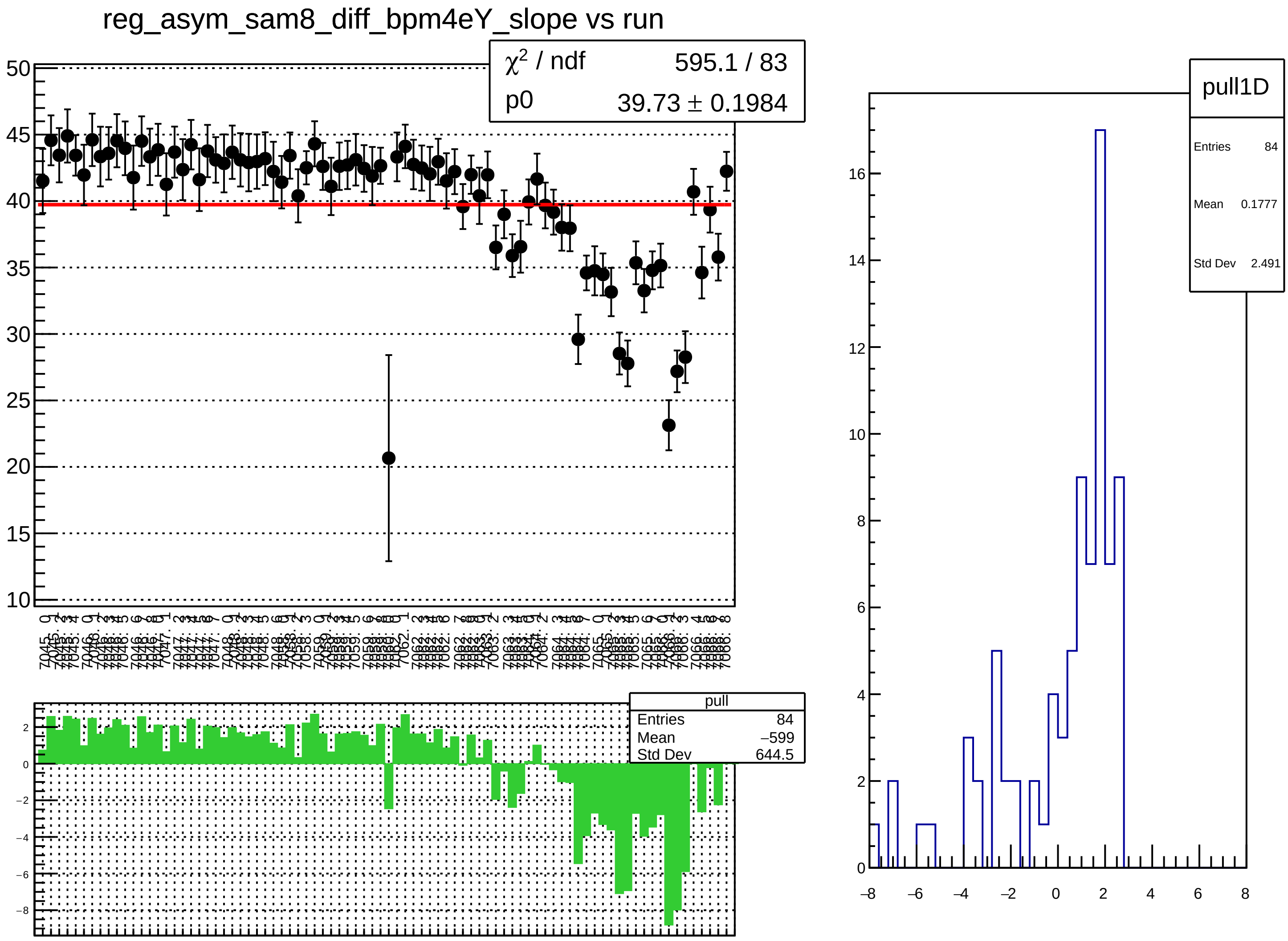
reg_asym_sam7_diff_bpm12X_slope vs run
χ2 / ndf 15.13 / 83
p0 0.3828 ± 0.01262
pull
Entries 84
Mean 299.7
Std Dev 238.4
pull1D
Entries 84
Mean −0.009821
Std Dev 0.4243

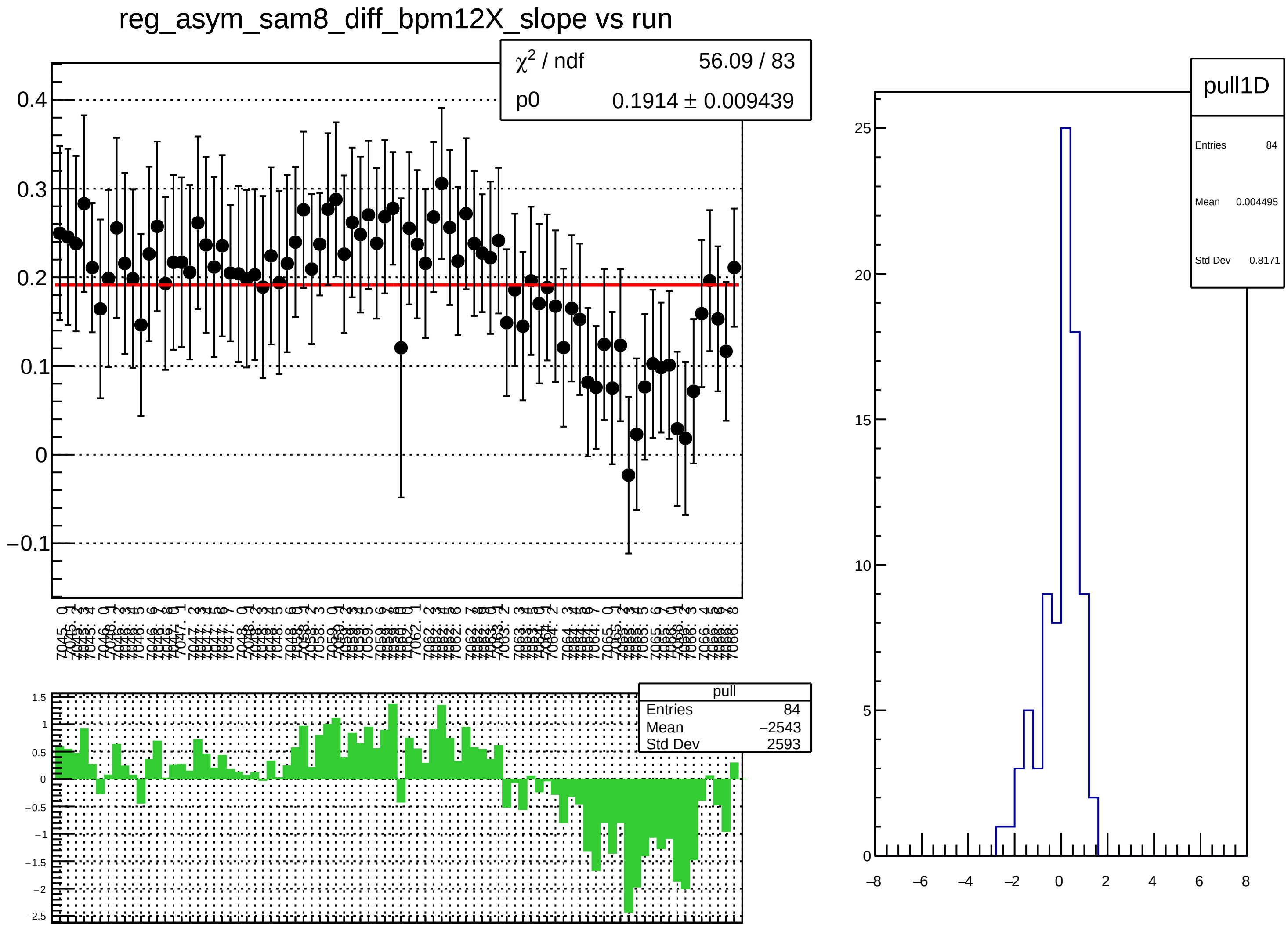


reg_asym_sam8_diff_bpm1X_slope vs run
$\chi^2$ / ndf 1643 / 83
p0 1.294 ± 0.2632
pull
Entries 84
Mean −108.8
Std Dev 152.3
pull1D
Entries 84
Mean 1.189
Std Dev 3.281

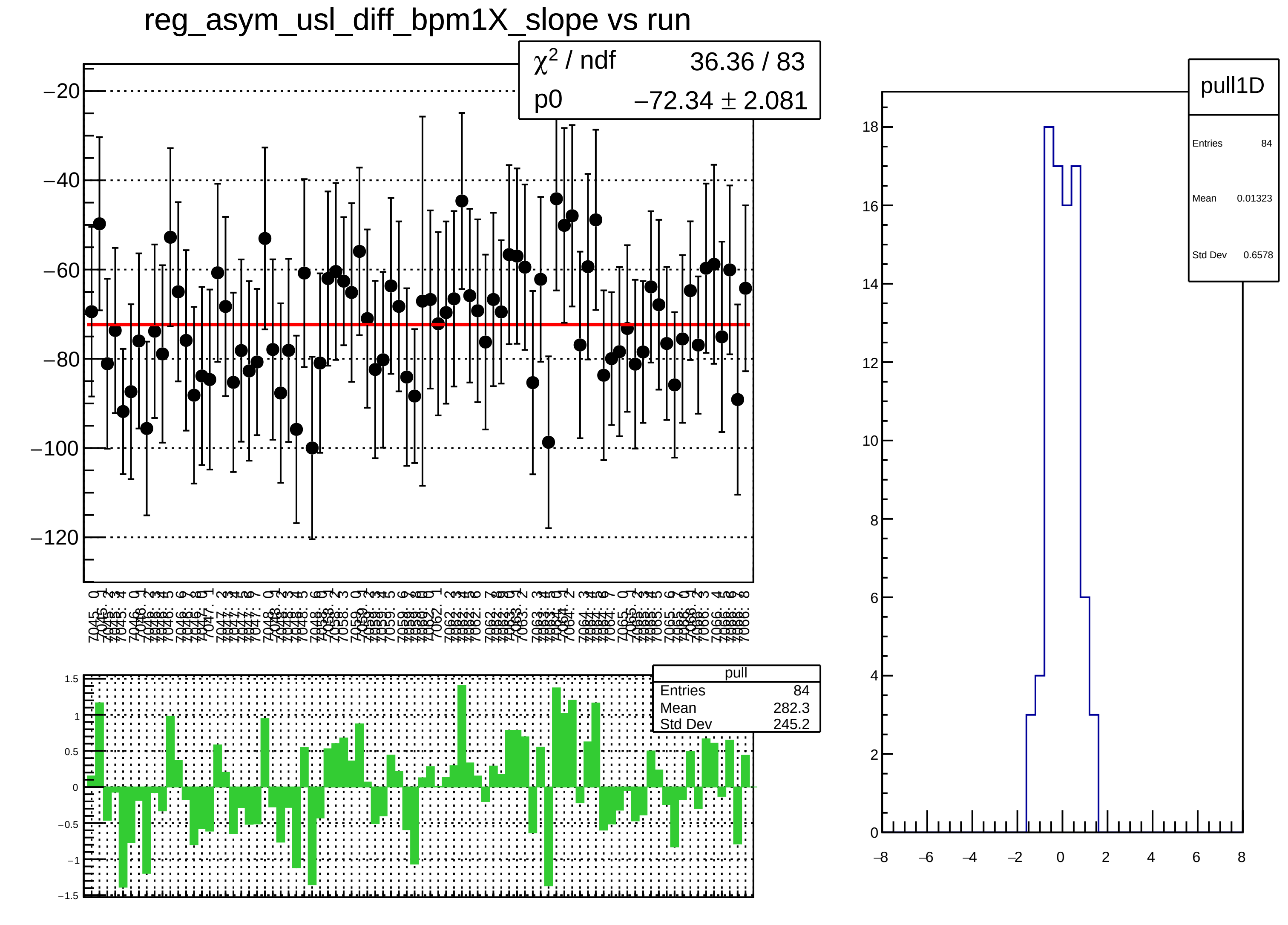

reg_asym_sam8_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 540.3 / 83
p0 −36.81 ± 0.1857
−5
−10
−15
−20
−25
−30
−35
−40
−45
pull
Entries 84
Mean −2609
Std Dev 2655
8
6
4
2
0
−2
pull1D
Entries 84
Mean −0.1186
Std Dev 2.369
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 1643 / 83
p0 −30.14 ± 0.2521
pull
Entries 84
Mean −120.8
Std Dev 164.1
pull1D
Entries 84
Mean −1.153
Std Dev 3.326

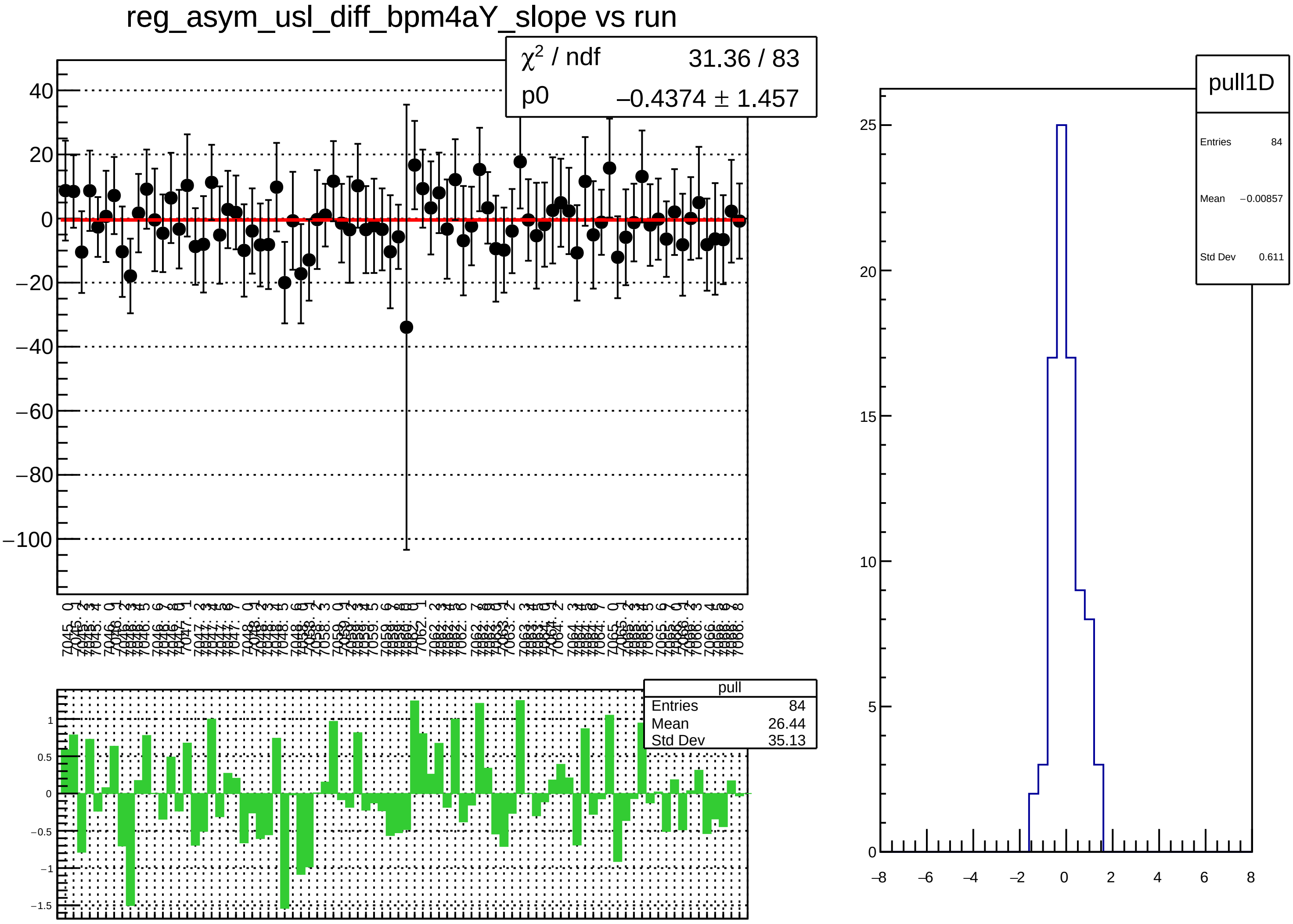

reg_asym_sam8_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 595.1 / 83
p0 39.73 ± 0.1984
pull
Entries 84
Mean −599
Std Dev 644.5
pull1D
Entries 84
Mean 0.1777
Std Dev 2.491



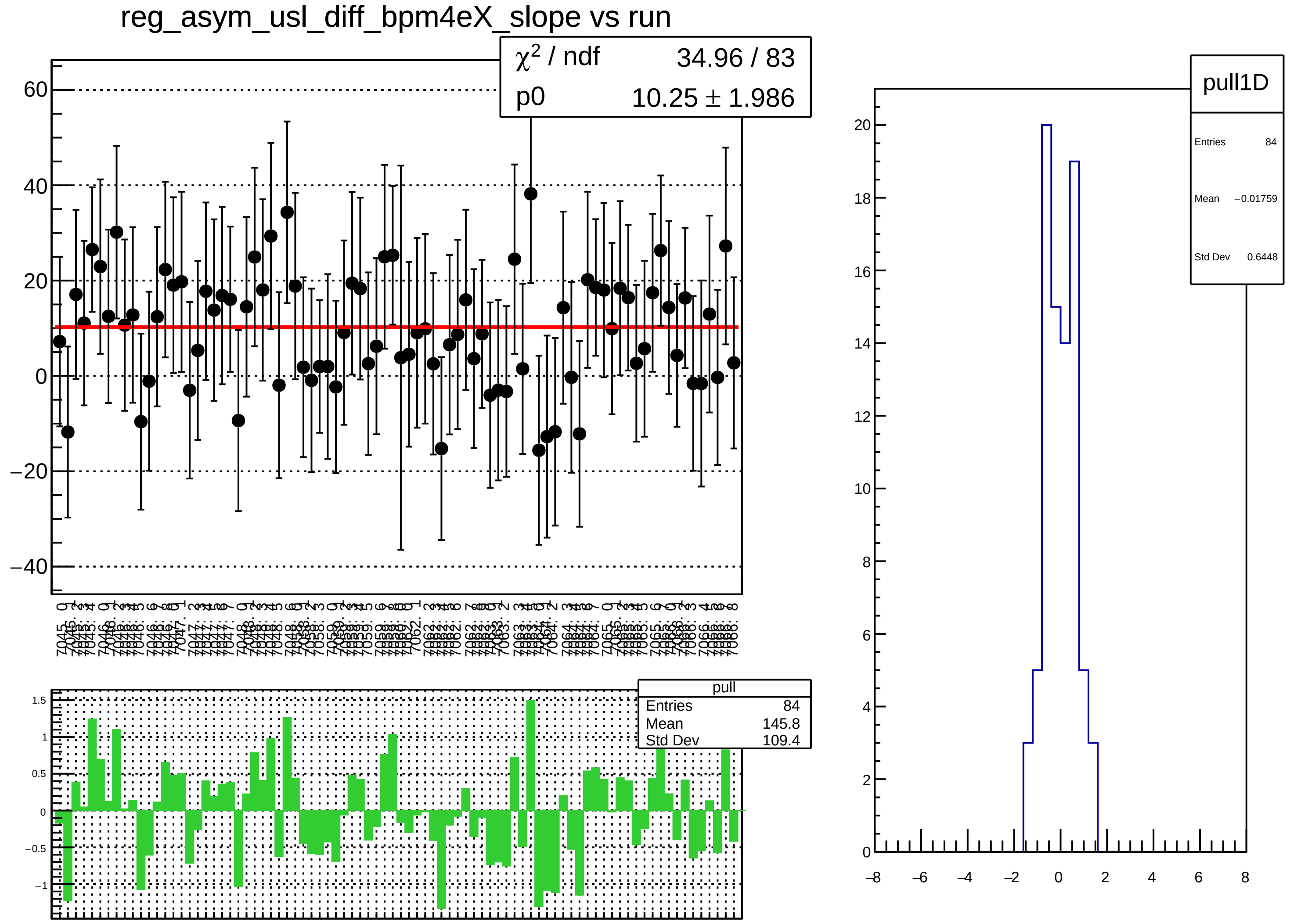
reg_asym_sam8_diff_bpm12X_slope vs run
$\chi^2$ / ndf 56.09 / 83
p0 0.1914 ± 0.009439
pull
Entries 84
Mean −2543
Std Dev 2593
pull1D
Entries 84
Mean 0.004495
Std Dev 0.8171



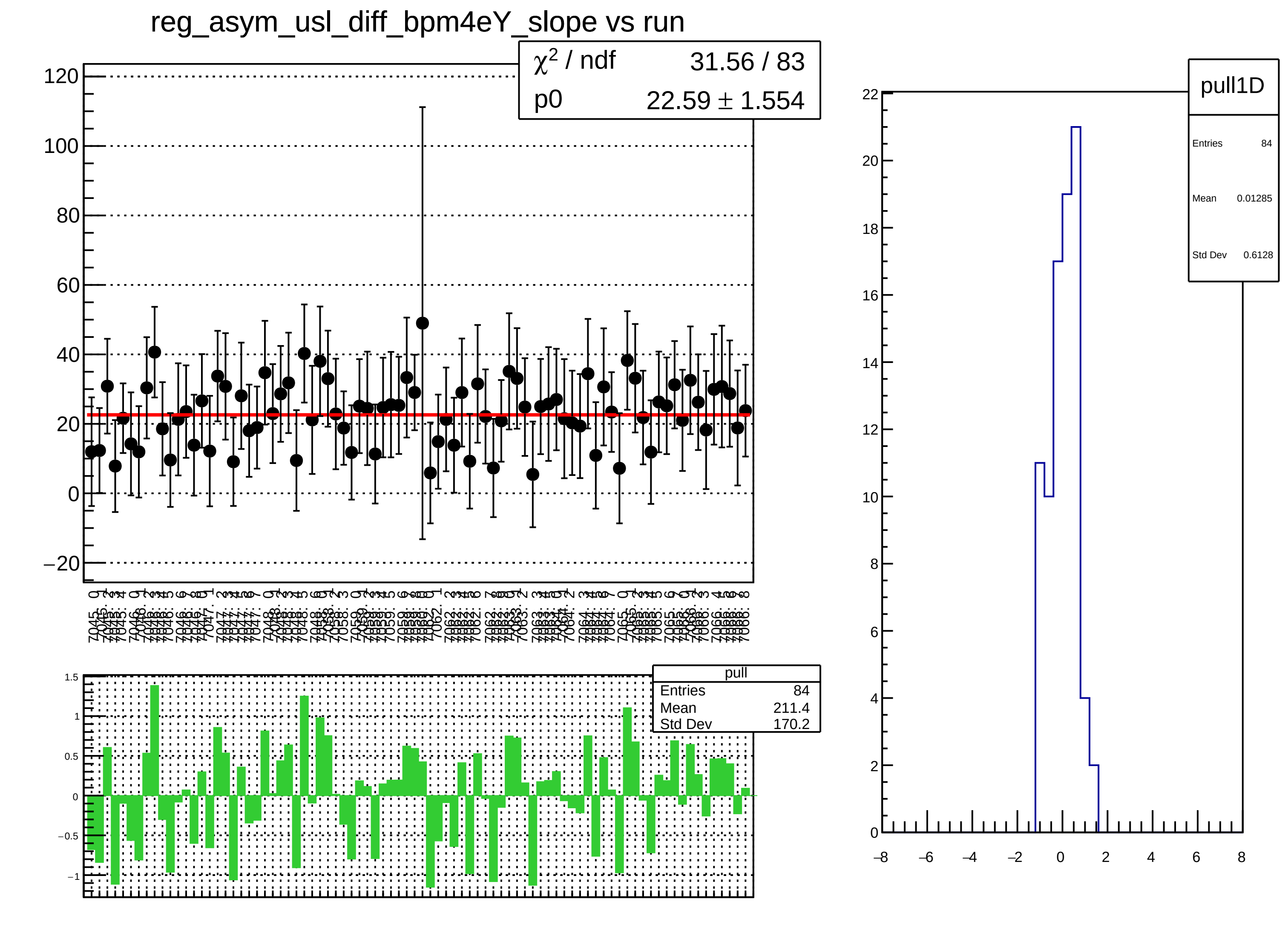
reg_asym_usl_diff_bpm1X_slope vs run
$\chi^2$ / ndf 36.36 / 83
p0 −72.34 ± 2.081
pull
Entries 84
Mean 282.3
Std Dev 245.2
pull1D
Entries 84
Mean 0.01323
Std Dev 0.6578



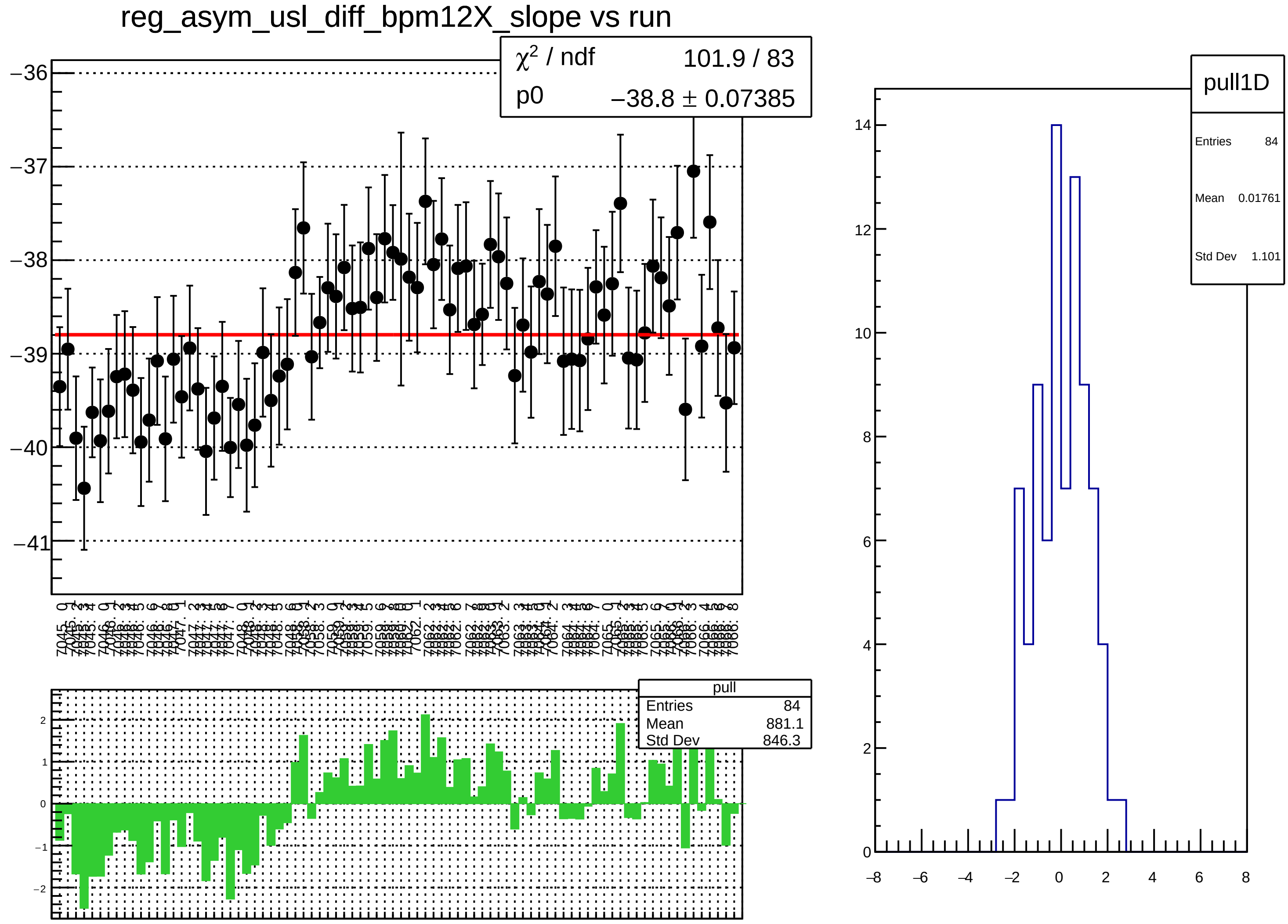
reg_asym_usl_diff_bpm4aY_slope vs run
χ2 / ndf 31.36 / 83
p0 −0.4374 ± 1.457
pull
Entries 84
Mean 26.44
Std Dev 35.13
pull1D
Entries 84
Mean −0.00857
Std Dev 0.611



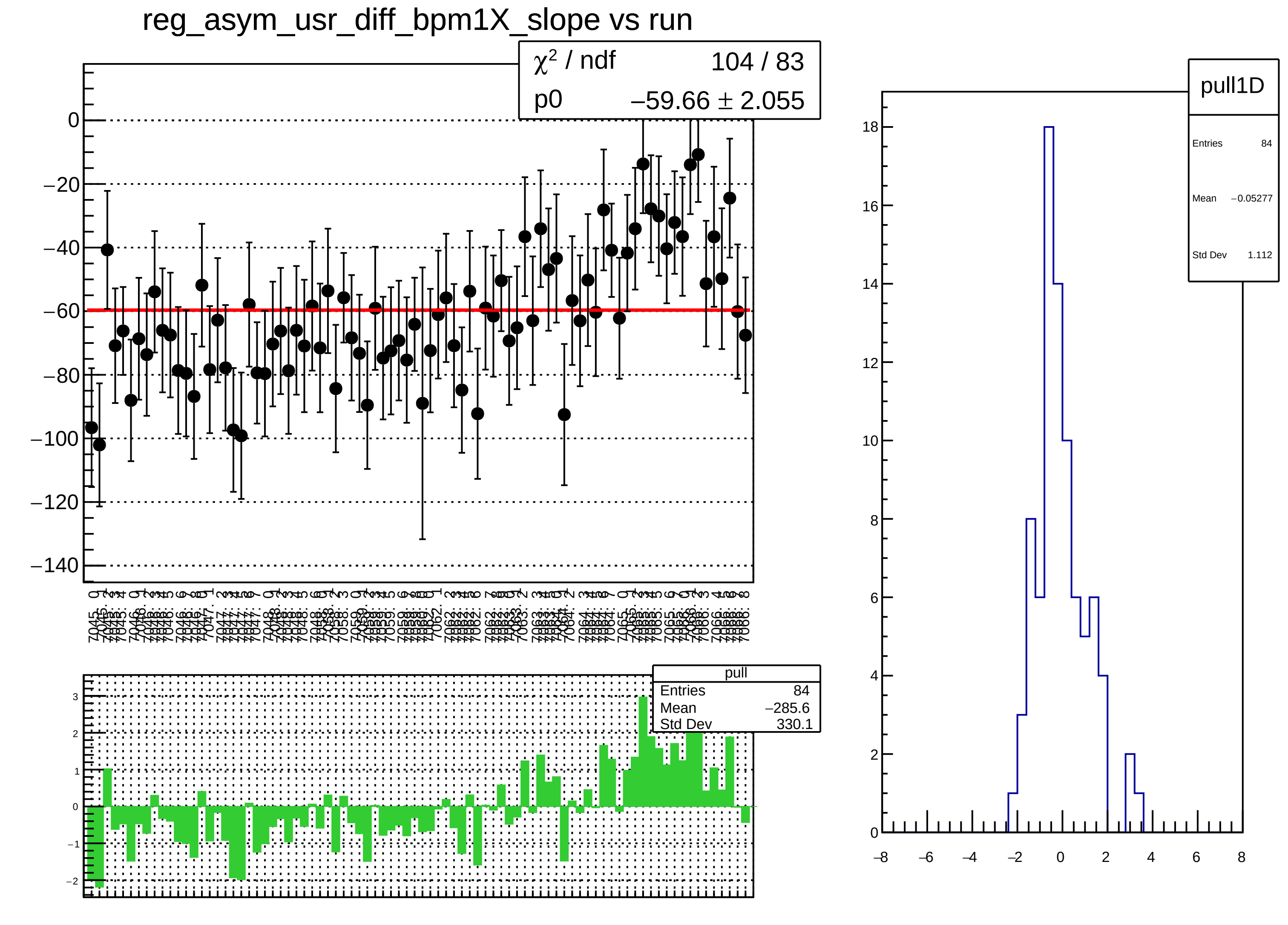
reg_asym_usl_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 34.96 / 83
p0 10.25 ± 1.986
pull
Entries 84
Mean 145.8
Std Dev 109.4
pull1D
Entries 84
Mean −0.01759
Std Dev 0.6448



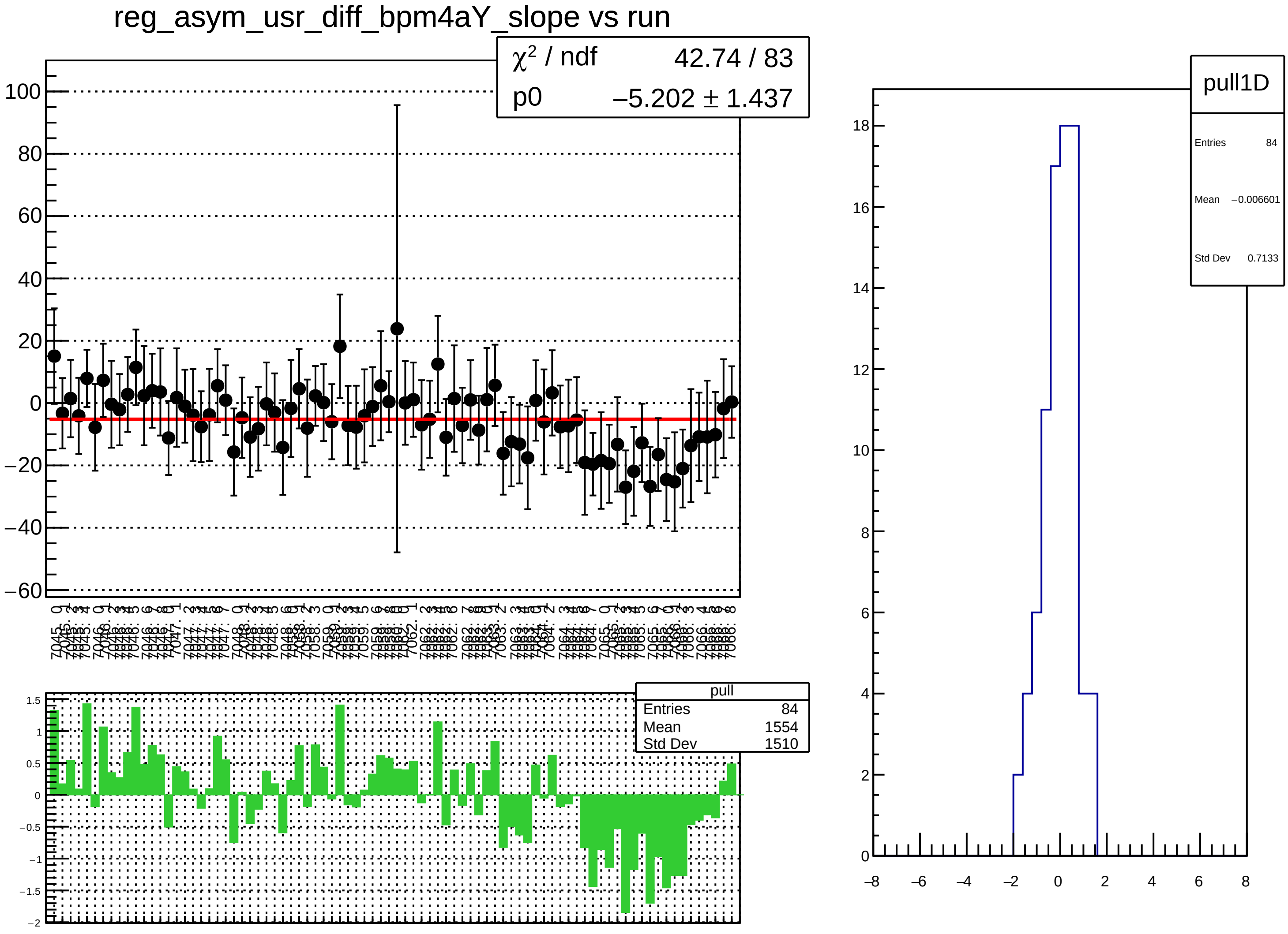
reg_asym_usl_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 31.56 / 83
p0 22.59 ± 1.554
pull
Entries 84
Mean 211.4
Std Dev 170.2
pull1D
Entries 84
Mean 0.01285
Std Dev 0.6128



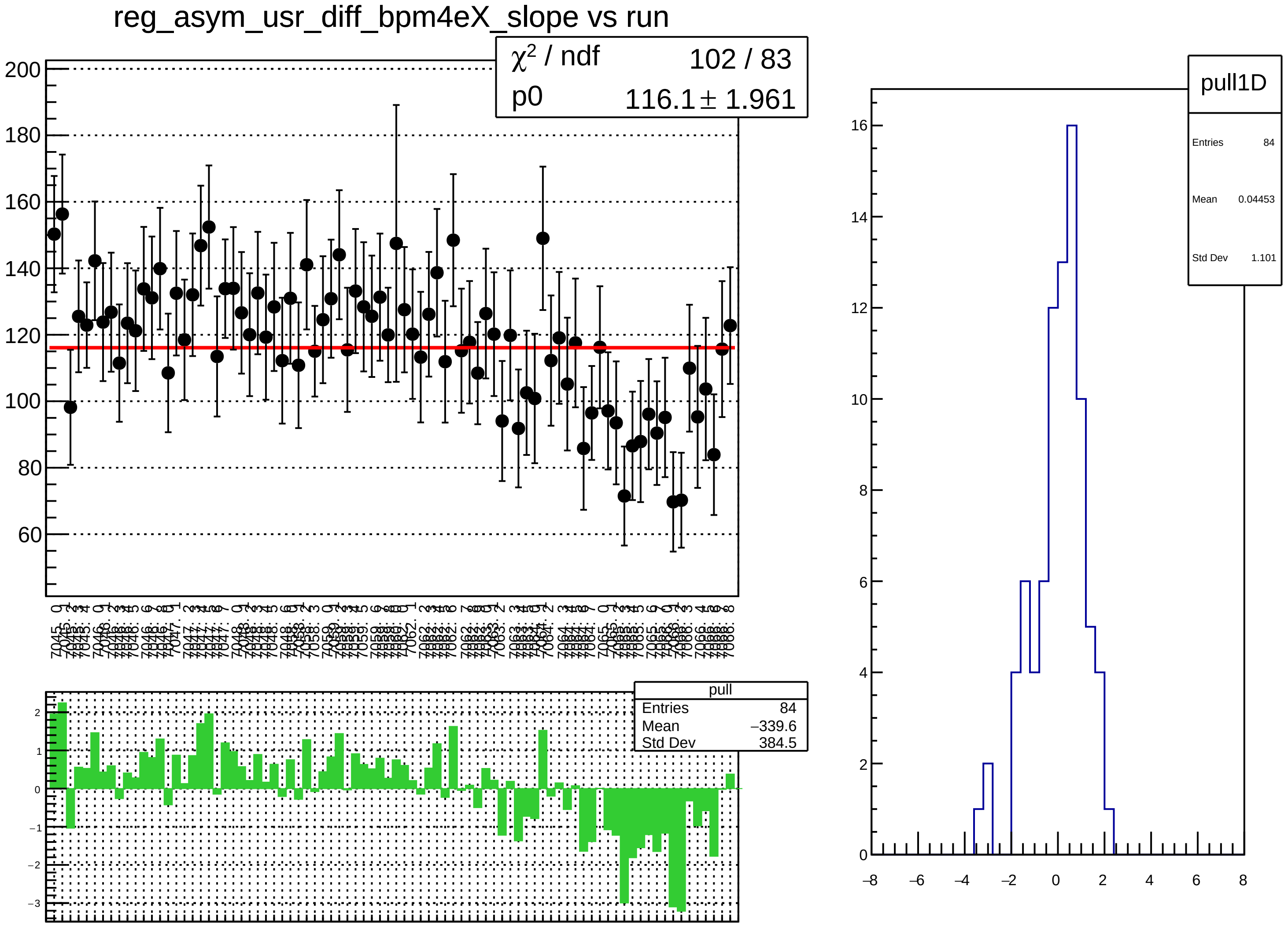
reg_asym_usl_diff_bpm12X_slope vs run
$\chi^2$ / ndf 101.9 / 83
p0 −38.8 ± 0.07385
−36
−37
−38
−39
−40
−41
pull
Entries 84
Mean 881.1
Std Dev 846.3
pull1D
Entries 84
Mean 0.01761
Std Dev 1.101



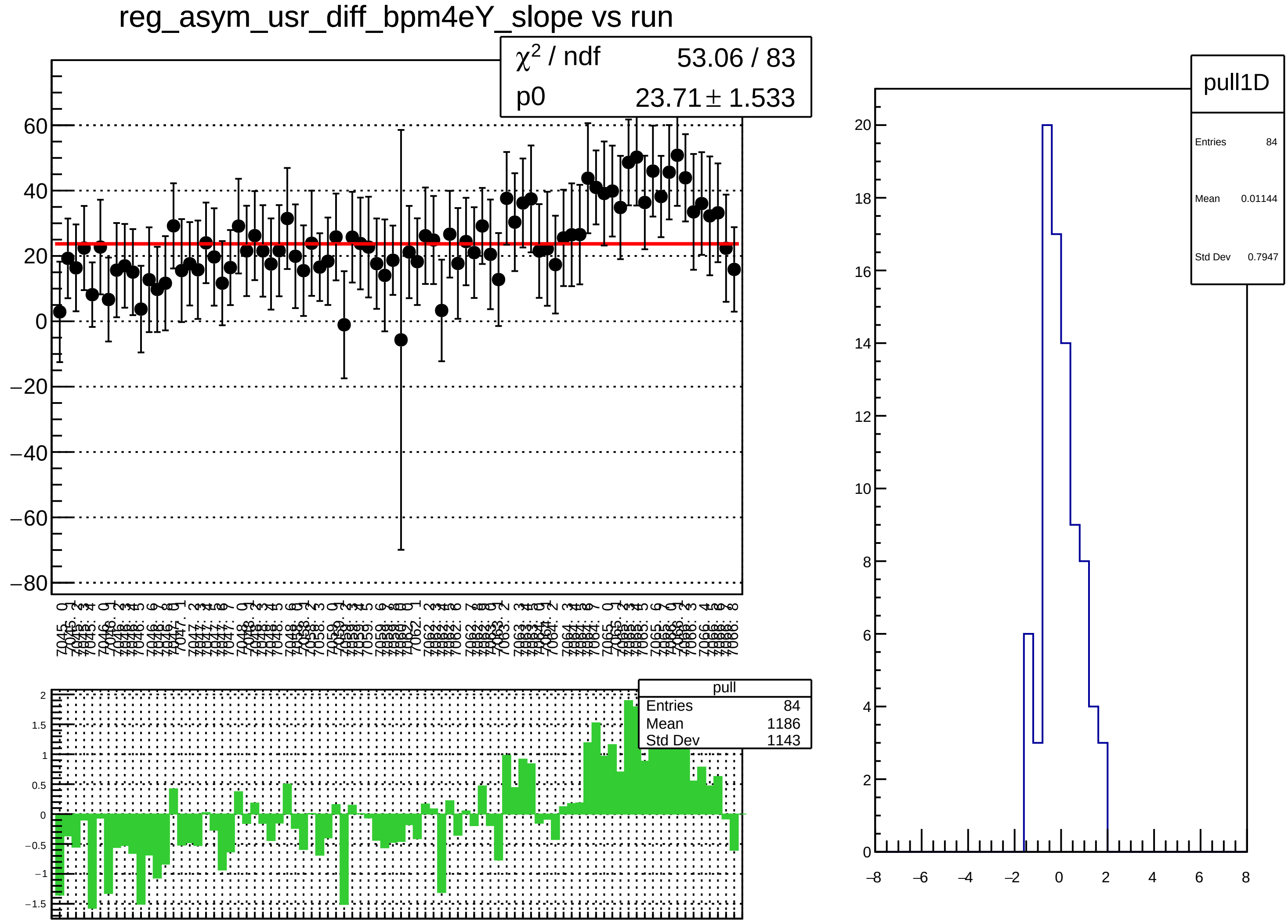
reg_asym_usr_diff_bpm1X_slope vs run
$\chi^2$ / ndf 104 / 83
p0 −59.66 ± 2.055
pull
Entries 84
Mean −285.6
Std Dev 330.1
pull1D
Entries 84
Mean −0.05277
Std Dev 1.112



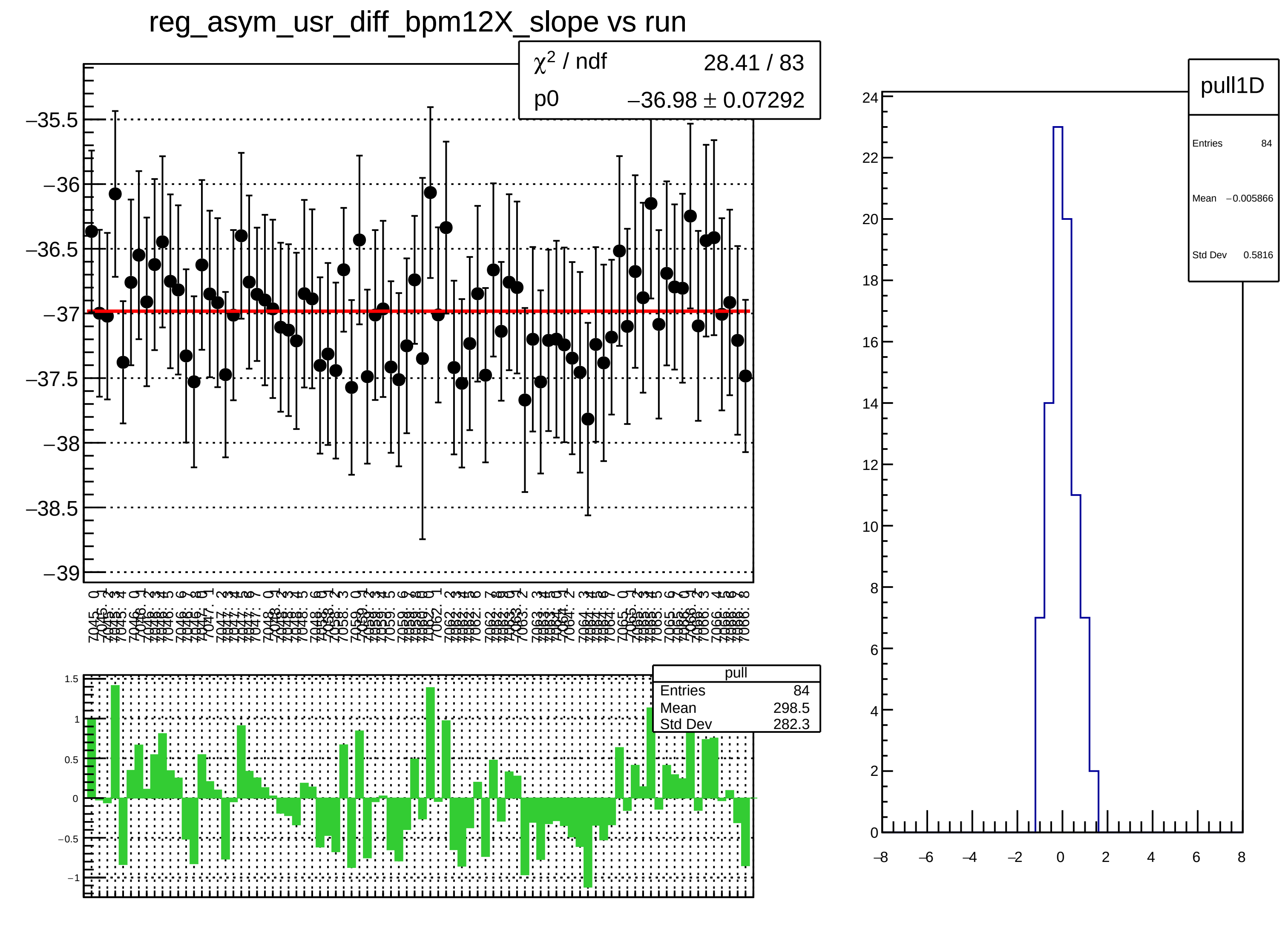
reg_asym_usr_diff_bpm4aY_slope vs run
χ2 / ndf 42.74 / 83
p0 −5.202 ± 1.437
pull
Entries 84
Mean 1554
Std Dev 1510
pull1D
Entries 84
Mean −0.006601
Std Dev 0.7133



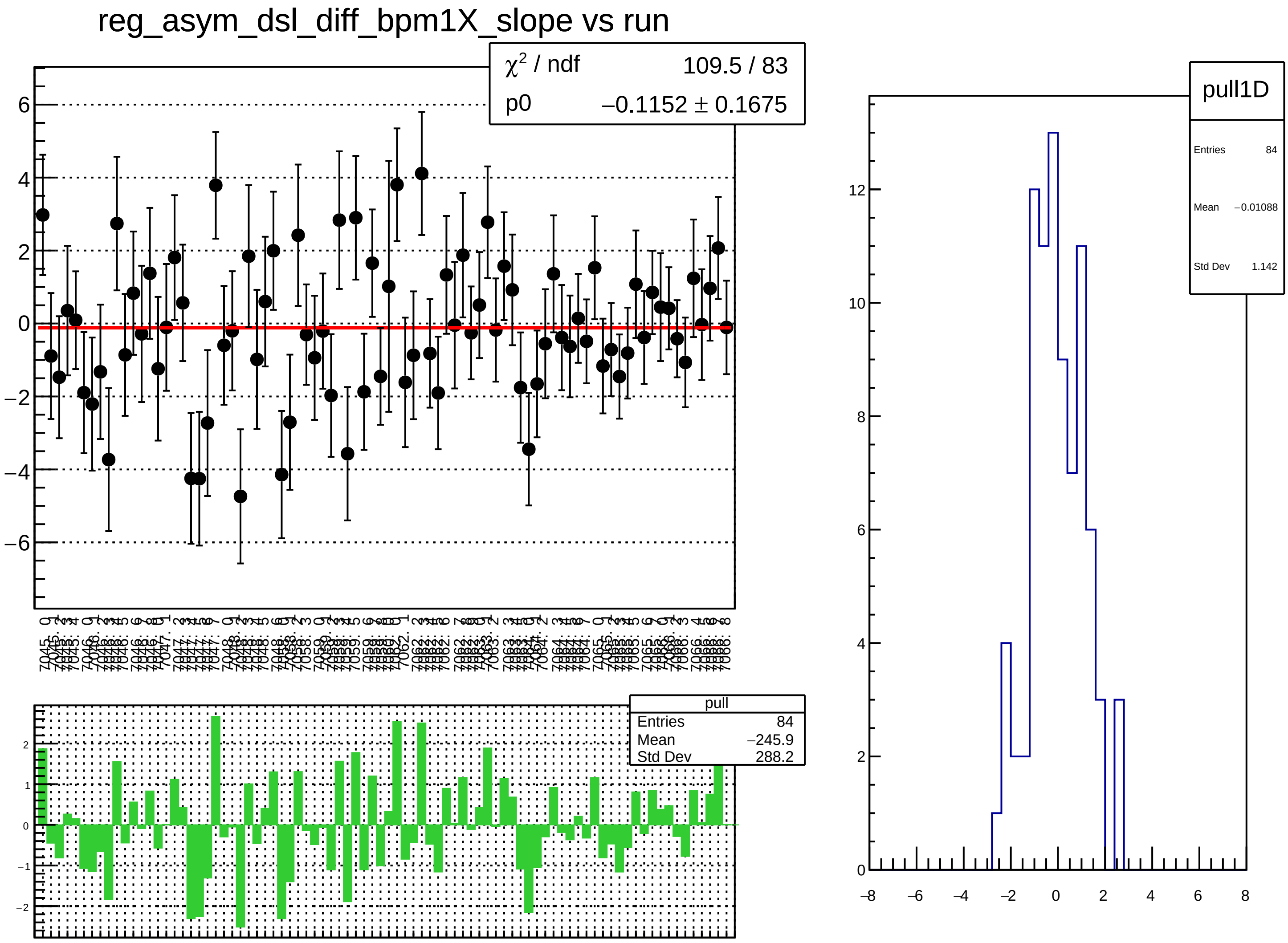
reg_asym_usr_diff_bpm4eX_slope vs run
χ2 / ndf 102 / 83
p0 116.1 ± 1.961
pull
Entries 84
Mean −339.6
Std Dev 384.5
pull1D
Entries 84
Mean 0.04453
Std Dev 1.101



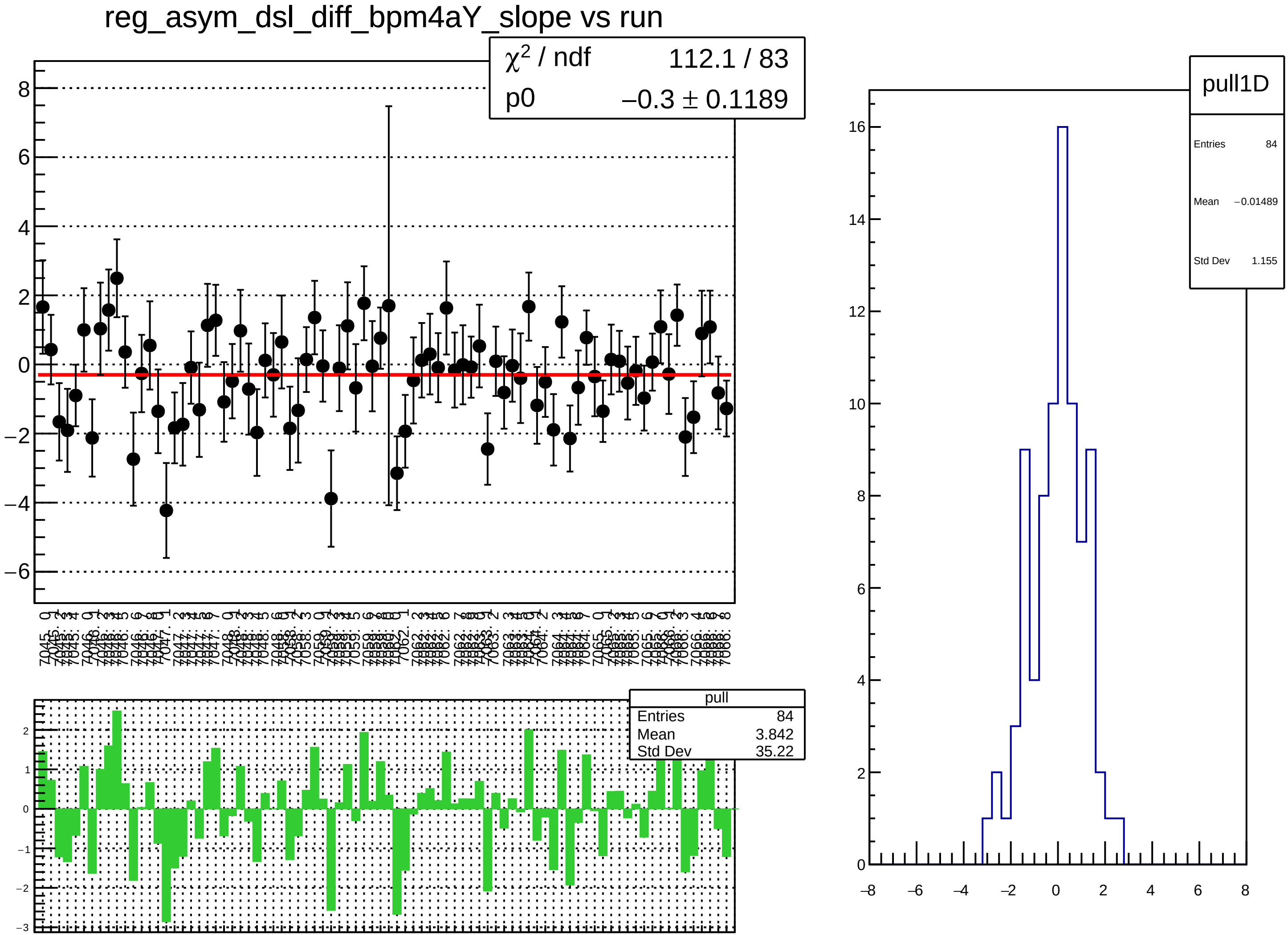
reg_asym_usr_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 53.06 / 83
p0 23.71 ± 1.533
pull
Entries 84
Mean 1186
Std Dev 1143
pull1D
Entries 84
Mean 0.01144
Std Dev 0.7947

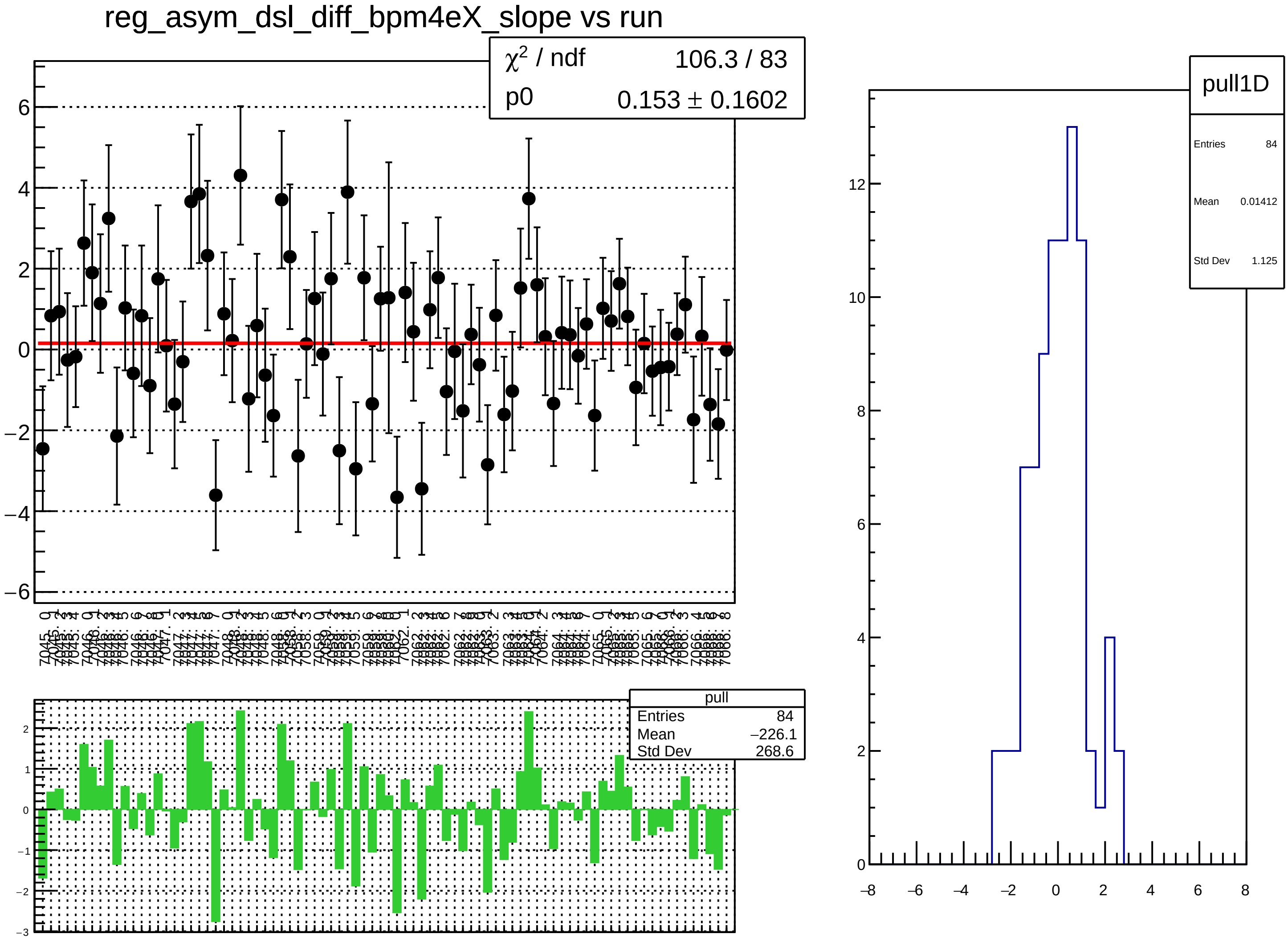


reg_asym_usr_diff_bpm12X_slope vs run
$\chi^2$ / ndf 28.41 / 83
p0 −36.98 ± 0.07292
pull
Entries 84
Mean 298.5
Std Dev 282.3
pull1D
Entries 84
Mean −0.005866
Std Dev 0.5816

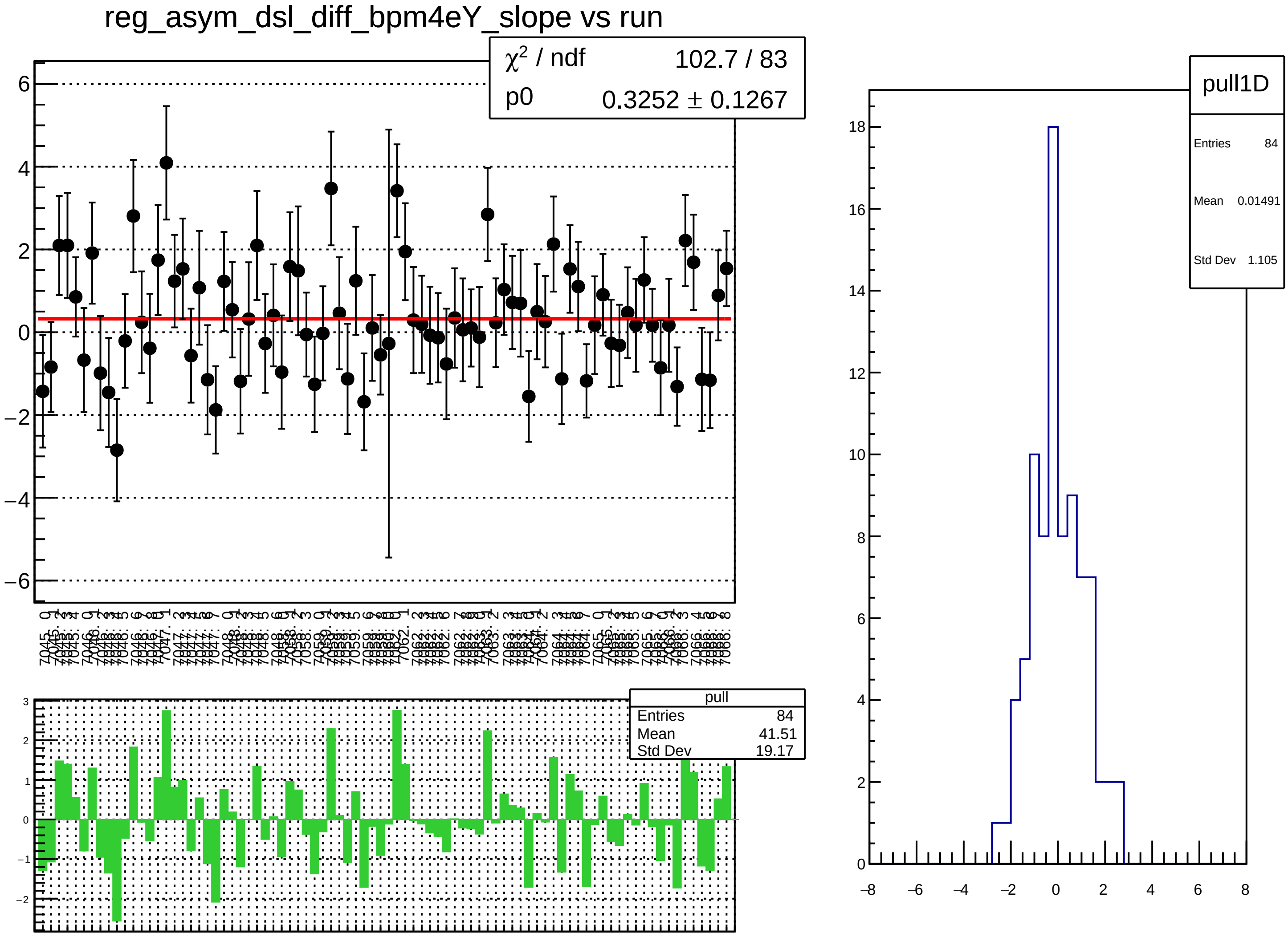


reg_asym_dsl_diff_bpm1X_slope vs run
χ2 / ndf 109.5 / 83
p0 −0.1152 ± 0.1675
pull
Entries 84
Mean −245.9
Std Dev 288.2
pull1D
Entries 84
Mean −0.01088
Std Dev 1.142

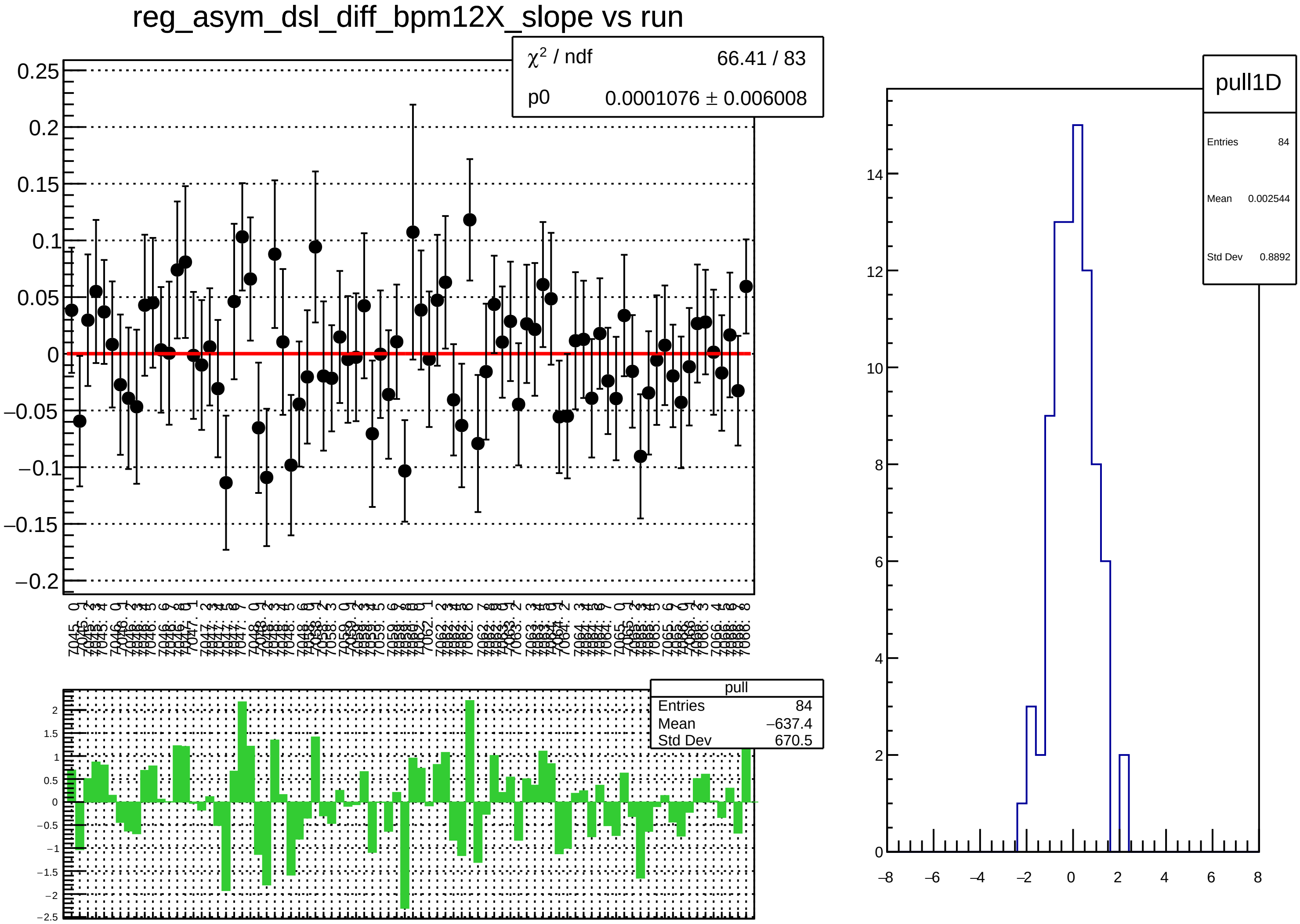

reg_asym_dsl_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 112.1 / 83
p0 −0.3 ± 0.1189
pull
Entries 84
Mean 3.842
Std Dev 35.22
pull1D
Entries 84
Mean −0.01489
Std Dev 1.155



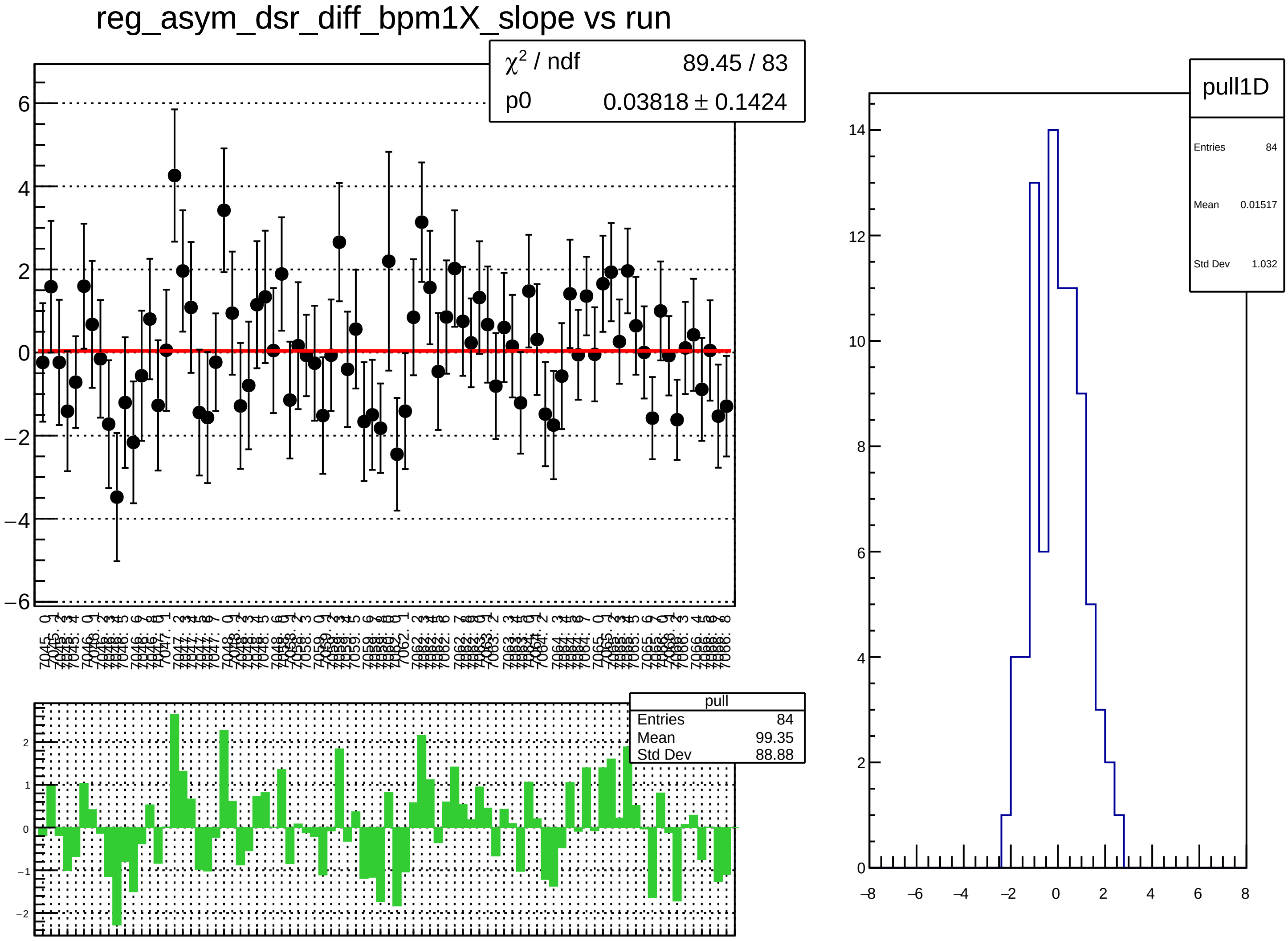
reg_asym_dsl_diff_bpm4eX_slope vs run
χ2 / ndf 106.3 / 83
p0 0.153 ± 0.1602
pull
Entries 84
Mean −226.1
Std Dev 268.6
pull1D
Entries 84
Mean 0.01412
Std Dev 1.125



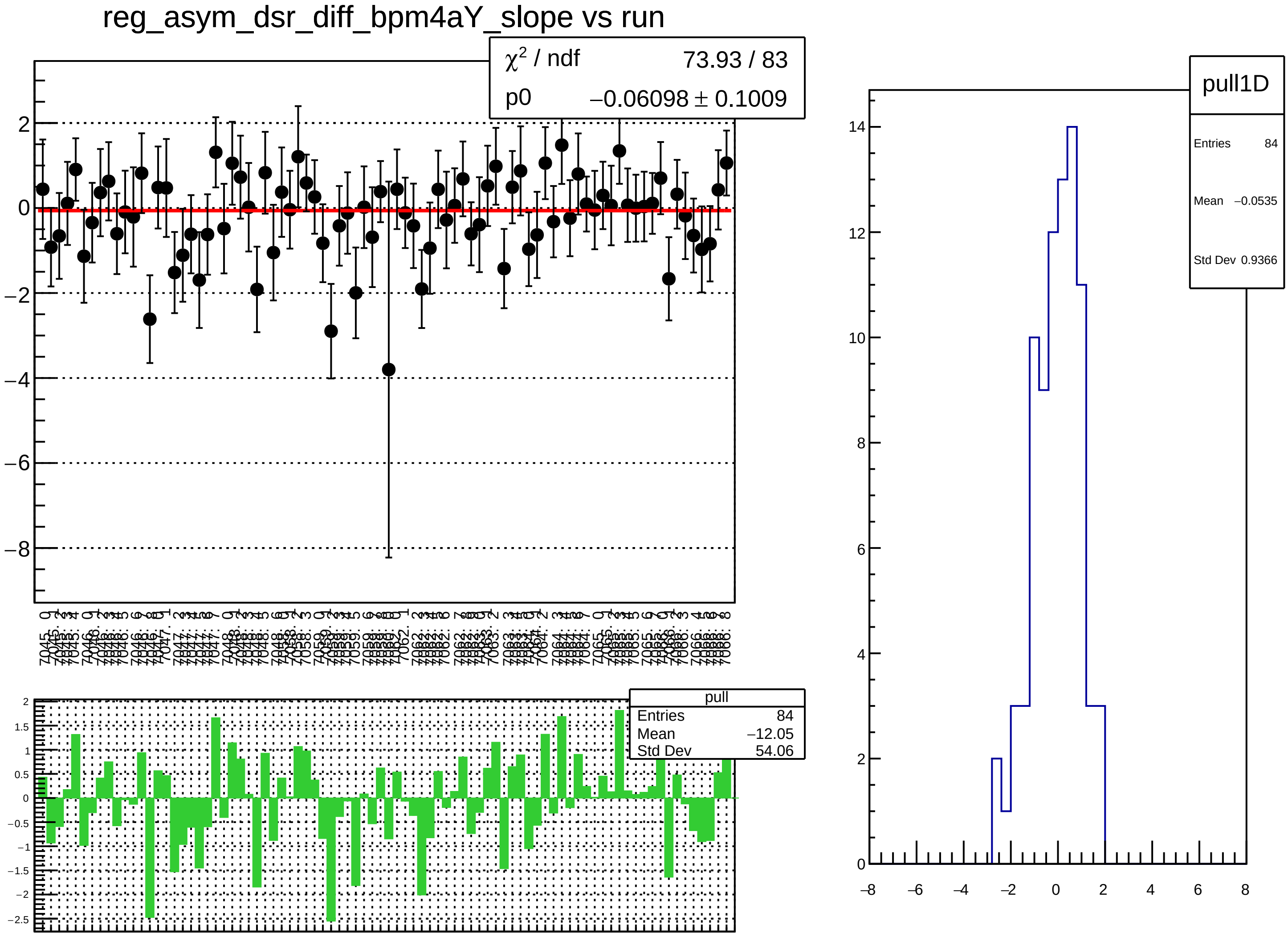
reg_asym_dsl_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 102.7 / 83
p0 0.3252 ± 0.1267
pull
Entries 84
Mean 41.51
Std Dev 19.17
pull1D
Entries 84
Mean 0.01491
Std Dev 1.105



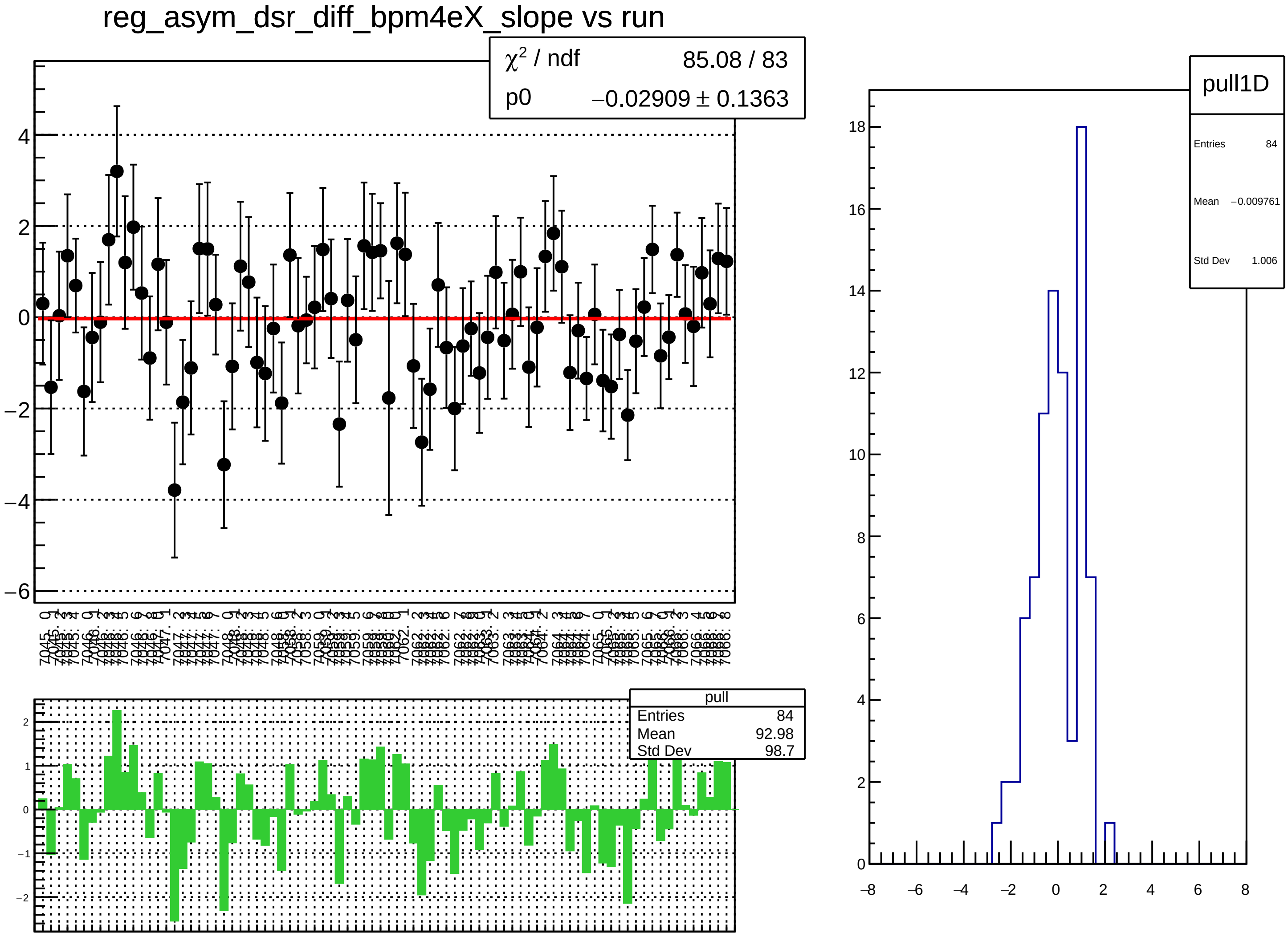
reg_asym_dsl_diff_bpm12X_slope vs run
$\chi^2$ / ndf 66.41 / 83
p0 0.0001076 ± 0.006008
pull
Entries 84
Mean −637.4
Std Dev 670.5
pull1D
Entries 84
Mean 0.002544
Std Dev 0.8892

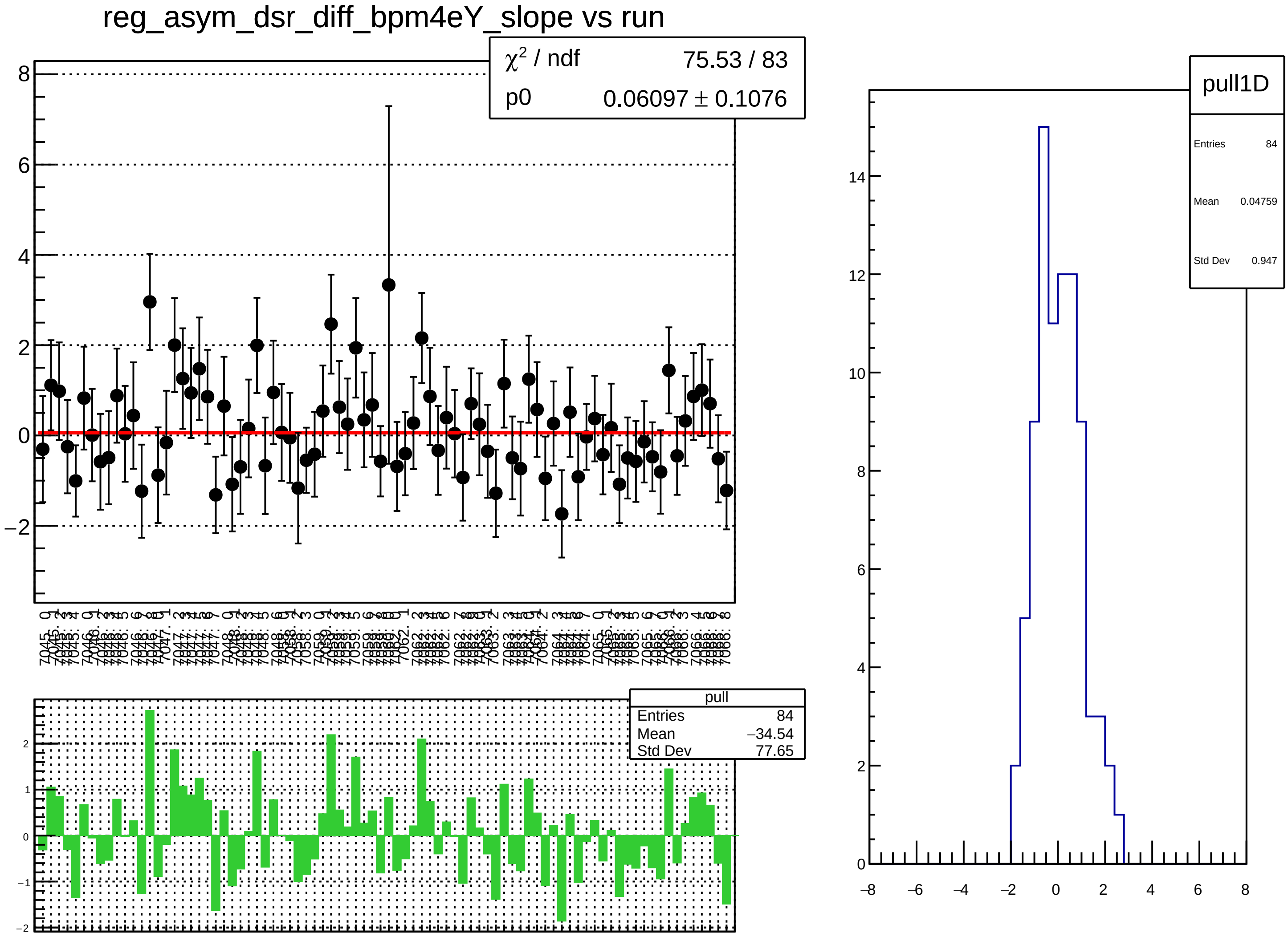


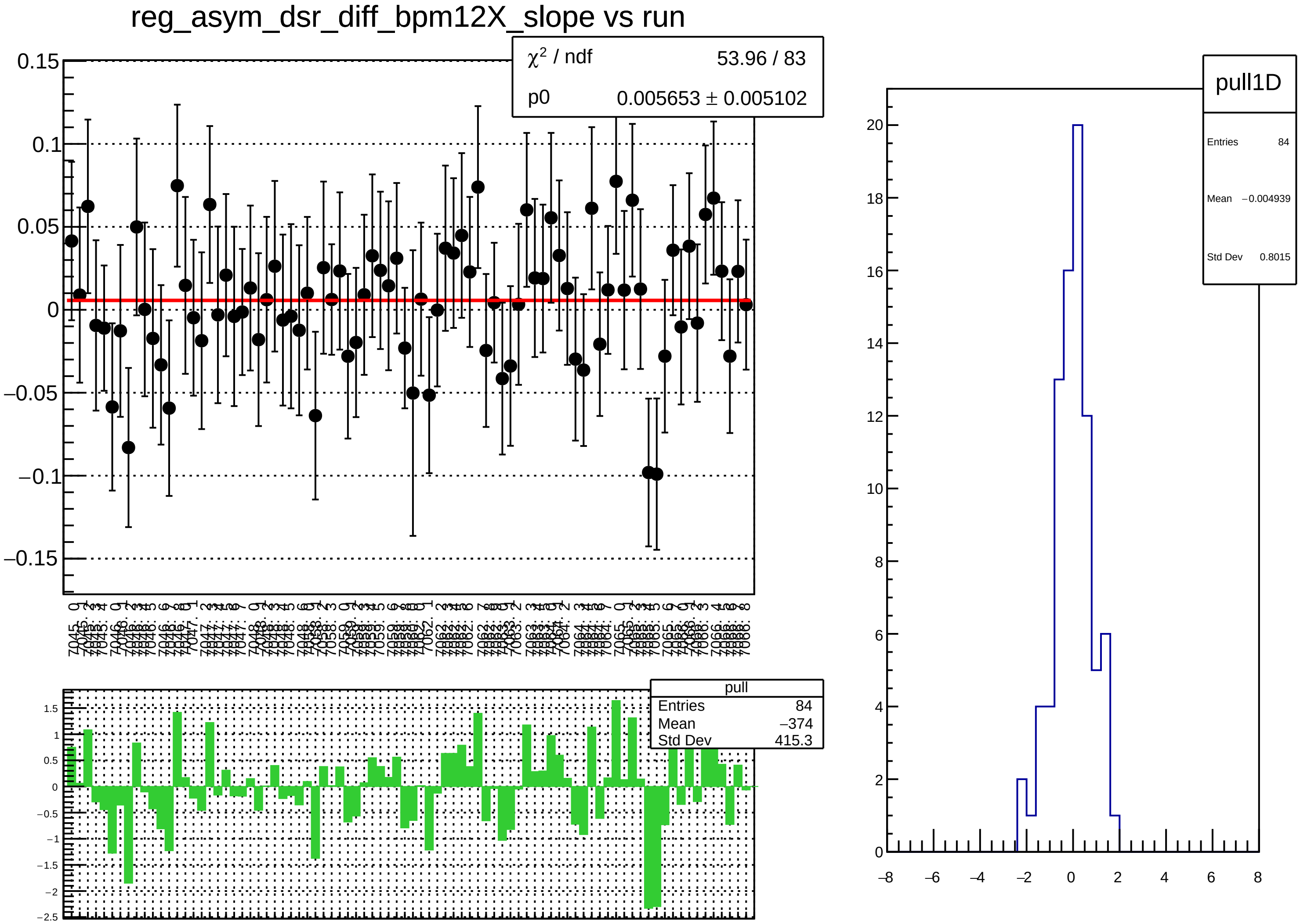
reg_asym_dsr_diff_bpm1X_slope vs run
$\chi^2$ / ndf 89.45 / 83
p0 0.03818 ± 0.1424
pull
Entries 84
Mean 99.35
Std Dev 88.88
pull1D
Entries 84
Mean 0.01517
Std Dev 1.032

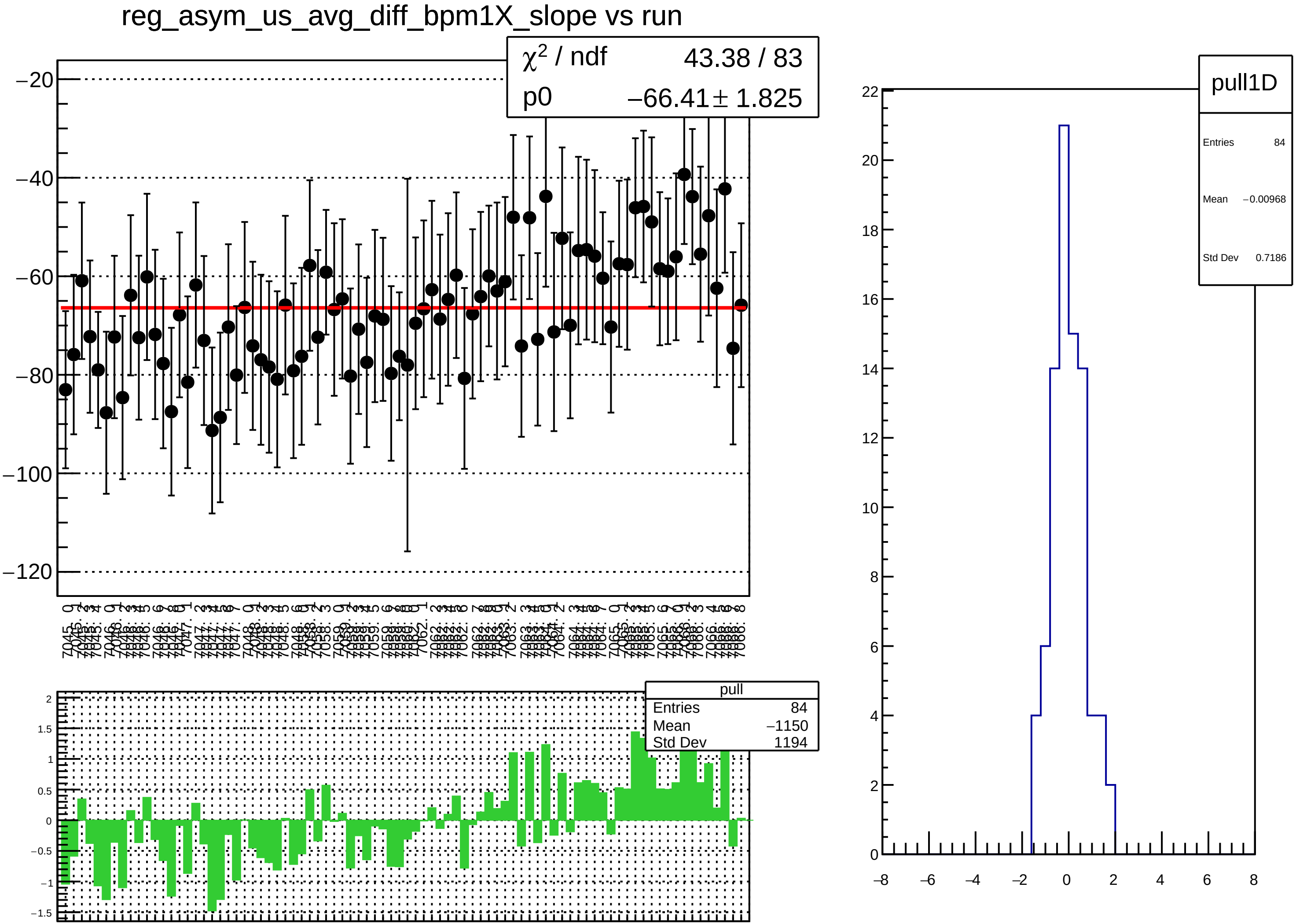


reg_asym_dsr_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 73.93 / 83
p0 −0.06098 ± 0.1009
pull
Entries 84
Mean −12.05
Std Dev 54.06
pull1D
Entries 84
Mean −0.0535
Std Dev 0.9366

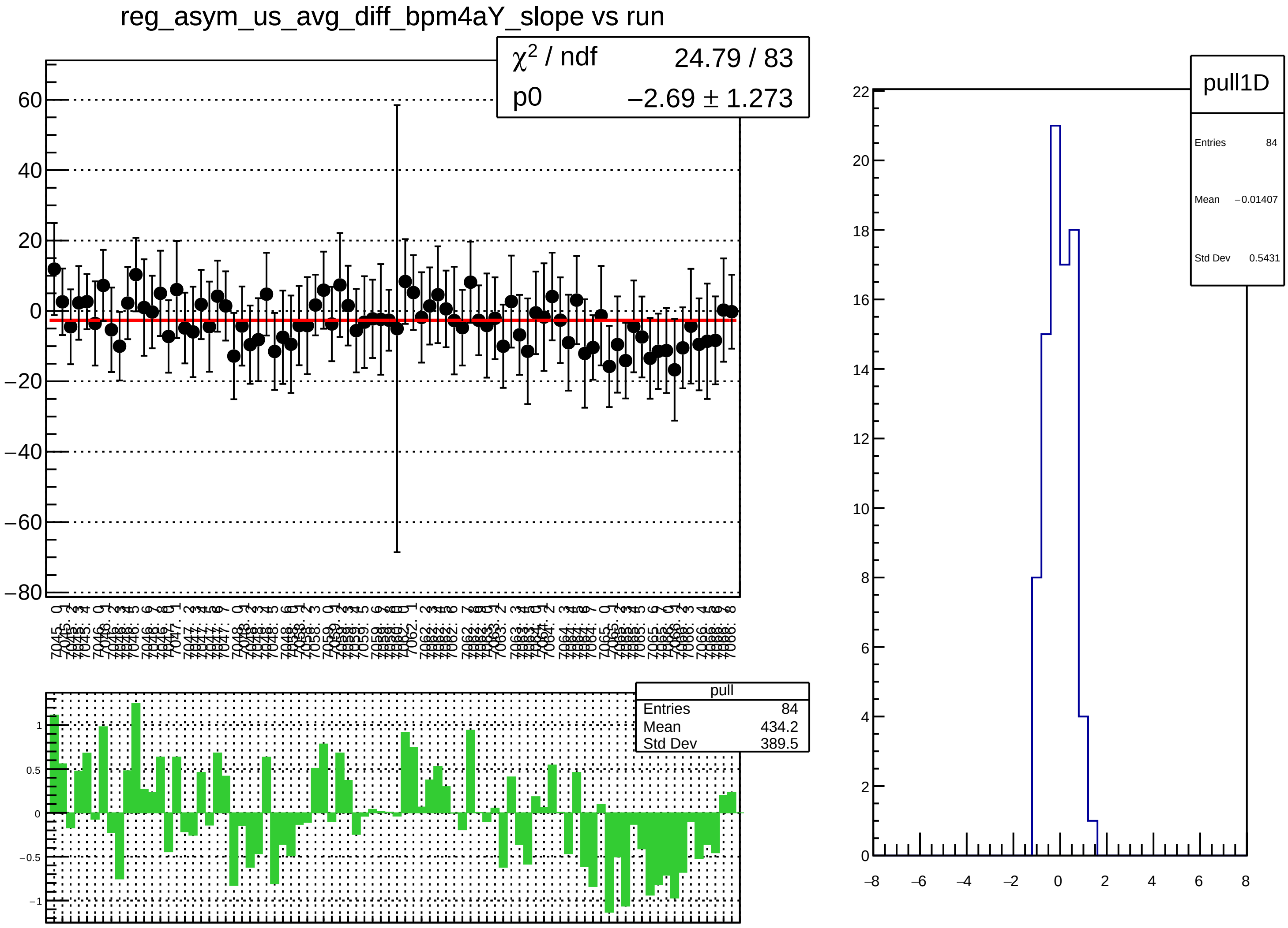

reg_asym_dsr_diff_bpm4eX_slope vs run
χ2 / ndf 85.08 / 83
p0 −0.02909 ± 0.1363
pull
Entries 84
Mean 92.98
Std Dev 98.7
pull1D
Entries 84
Mean −0.009761
Std Dev 1.006


reg_asym_dsr_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 75.53 / 83
p0 0.06097 ± 0.1076
pull
Entries 84
Mean −34.54
Std Dev 77.65
pull1D
Entries 84
Mean 0.04759
Std Dev 0.947

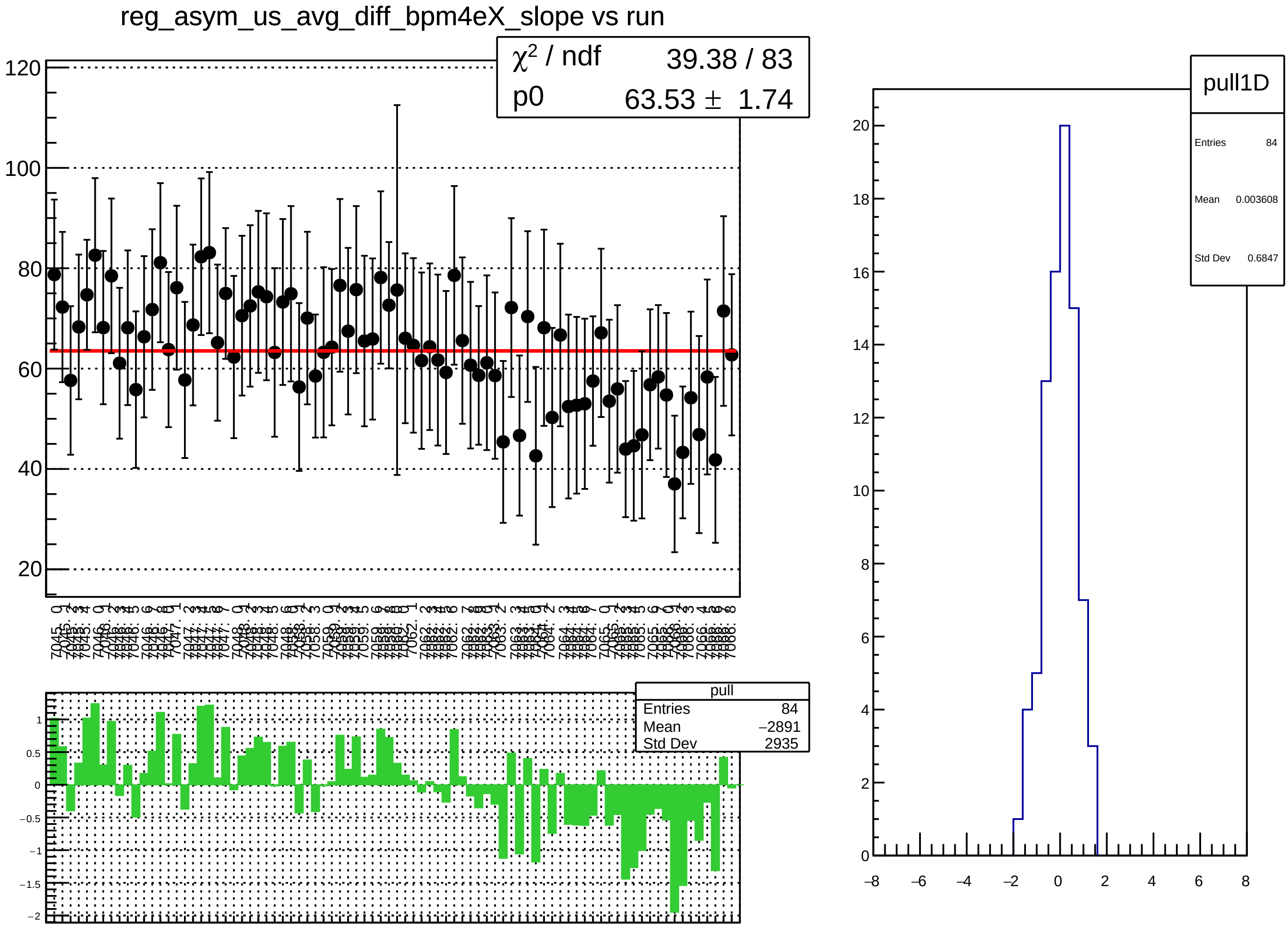

reg_asym_dsr_diff_bpm12X_slope vs run
χ2 / ndf 53.96 / 83
p0 0.005653 ± 0.005102
pull
Entries 84
Mean −374
Std Dev 415.3
pull1D
Entries 84
Mean −0.004939
Std Dev 0.8015



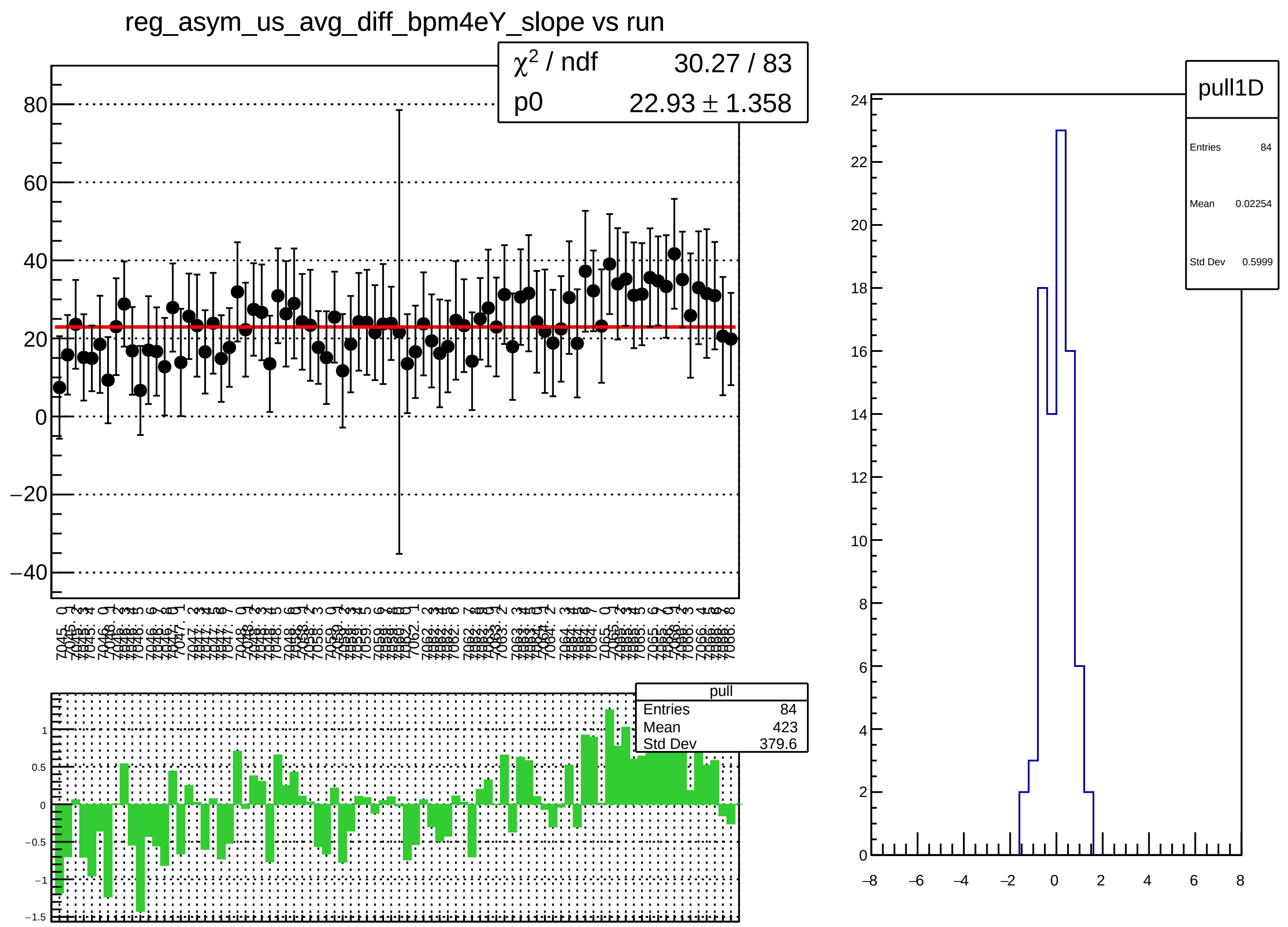
reg_asym_us_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 43.38 / 83
p0 −66.41 ± 1.825
pull
Entries 84
Mean −1150
Std Dev 1194
pull1D
Entries 84
Mean −0.00968
Std Dev 0.7186



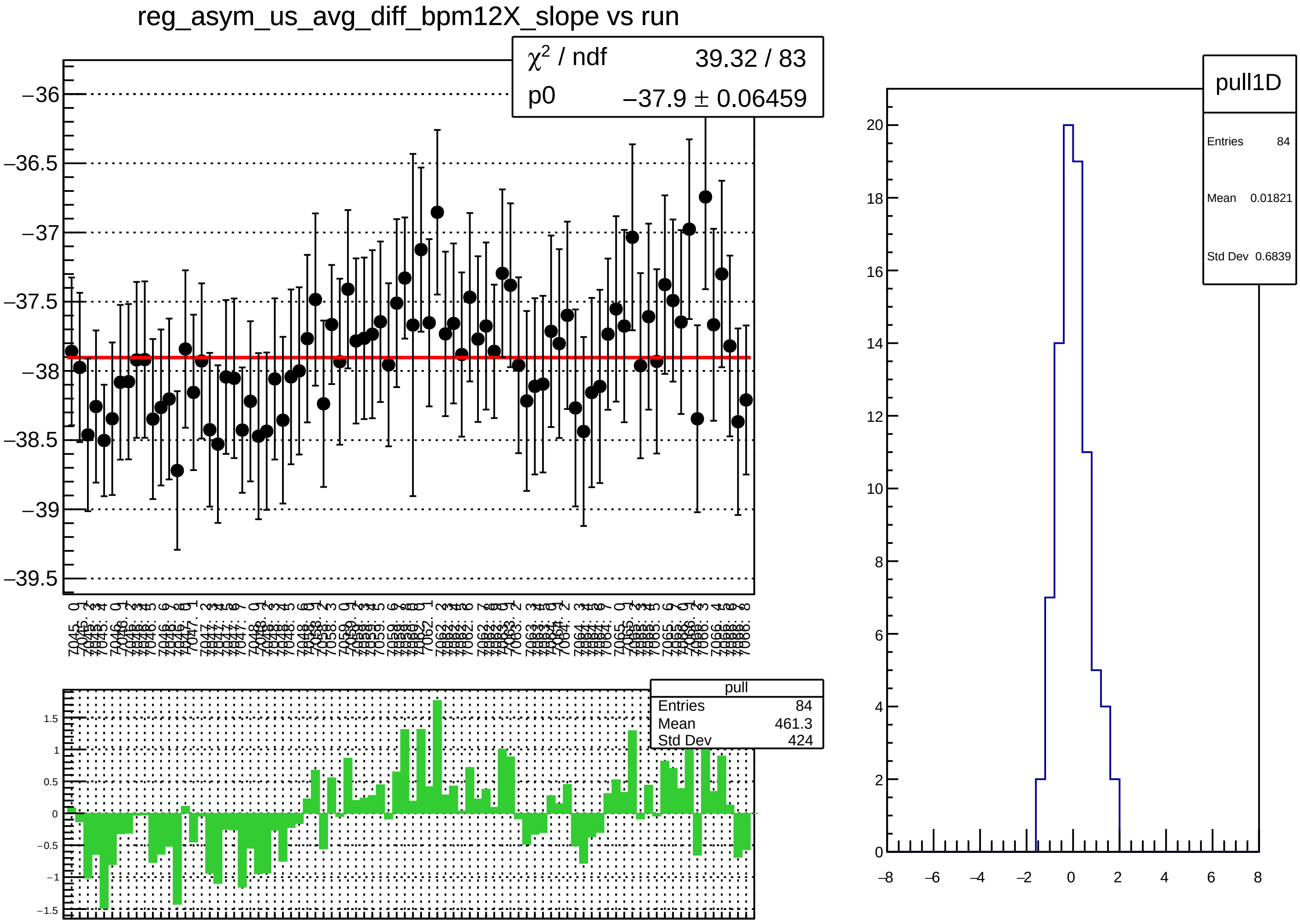
reg_asym_us_avg_diff_bpm4aY_slope vs run
χ2 / ndf 24.79 / 83
p0 −2.69 ± 1.273
pull
Entries 84
Mean 434.2
Std Dev 389.5
pull1D
Entries 84
Mean −0.01407
Std Dev 0.5431

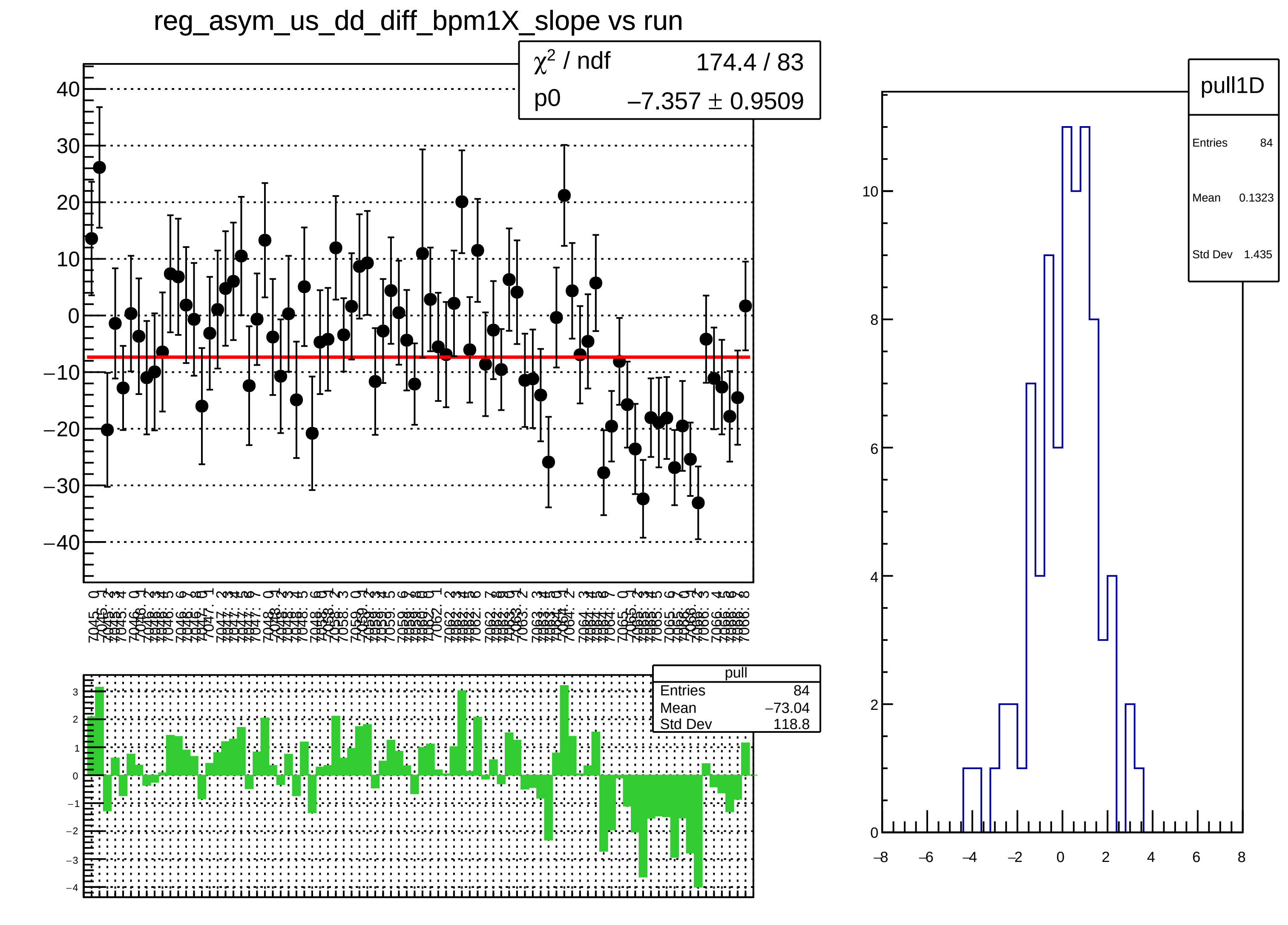


reg_asym_us_avg_diff_bpm4eX_slope vs run
χ2 / ndf 39.38 / 83
p0 63.53 ± 1.74
pull
Entries 84
Mean −2891
Std Dev 2935
pull1D
Entries 84
Mean 0.003608
Std Dev 0.6847

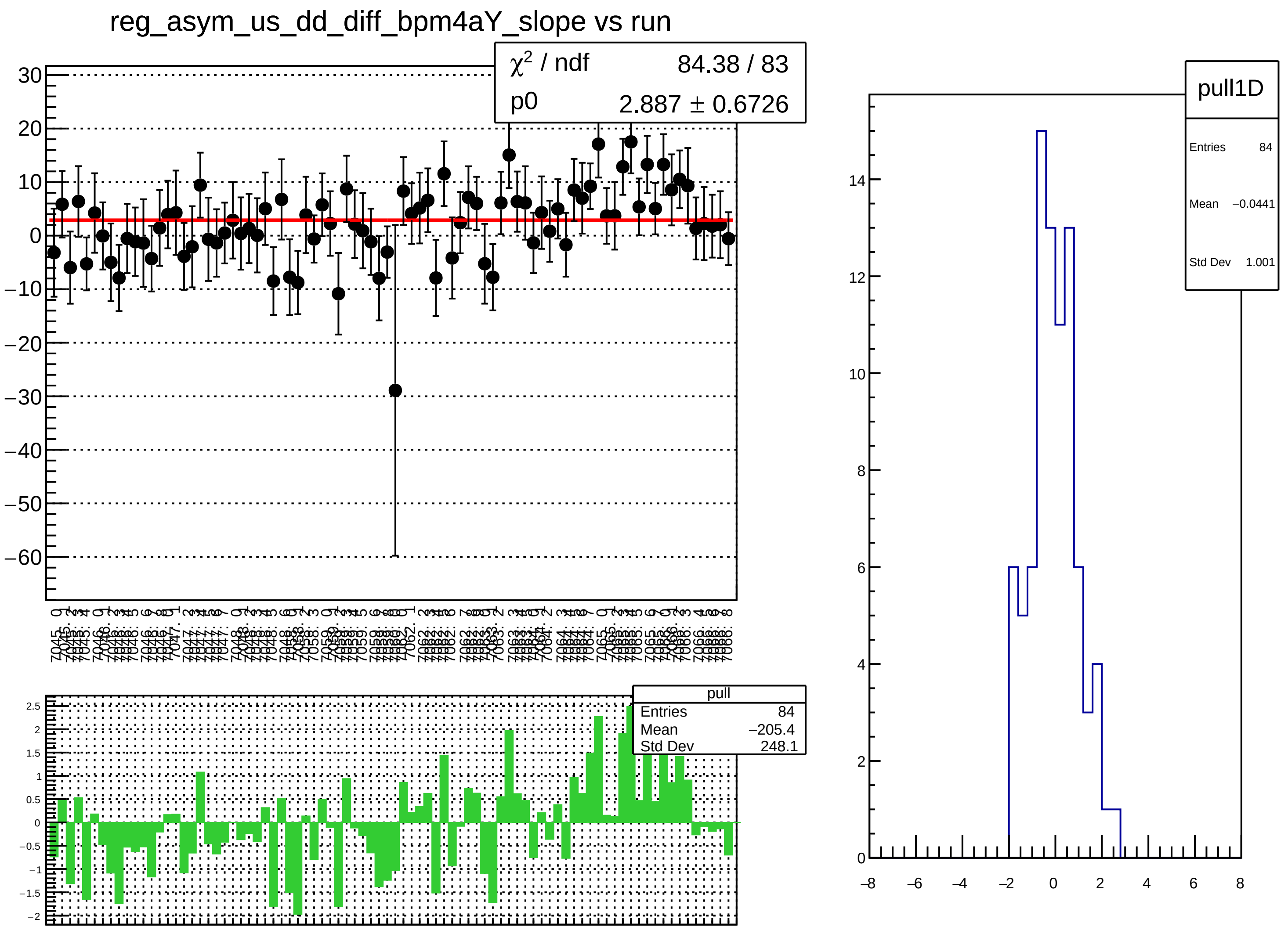


reg_asym_us_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 30.27 / 83
p0 22.93 ± 1.358
pull
Entries 84
Mean 423
Std Dev 379.6
pull1D
Entries 84
Mean 0.02254
Std Dev 0.5999

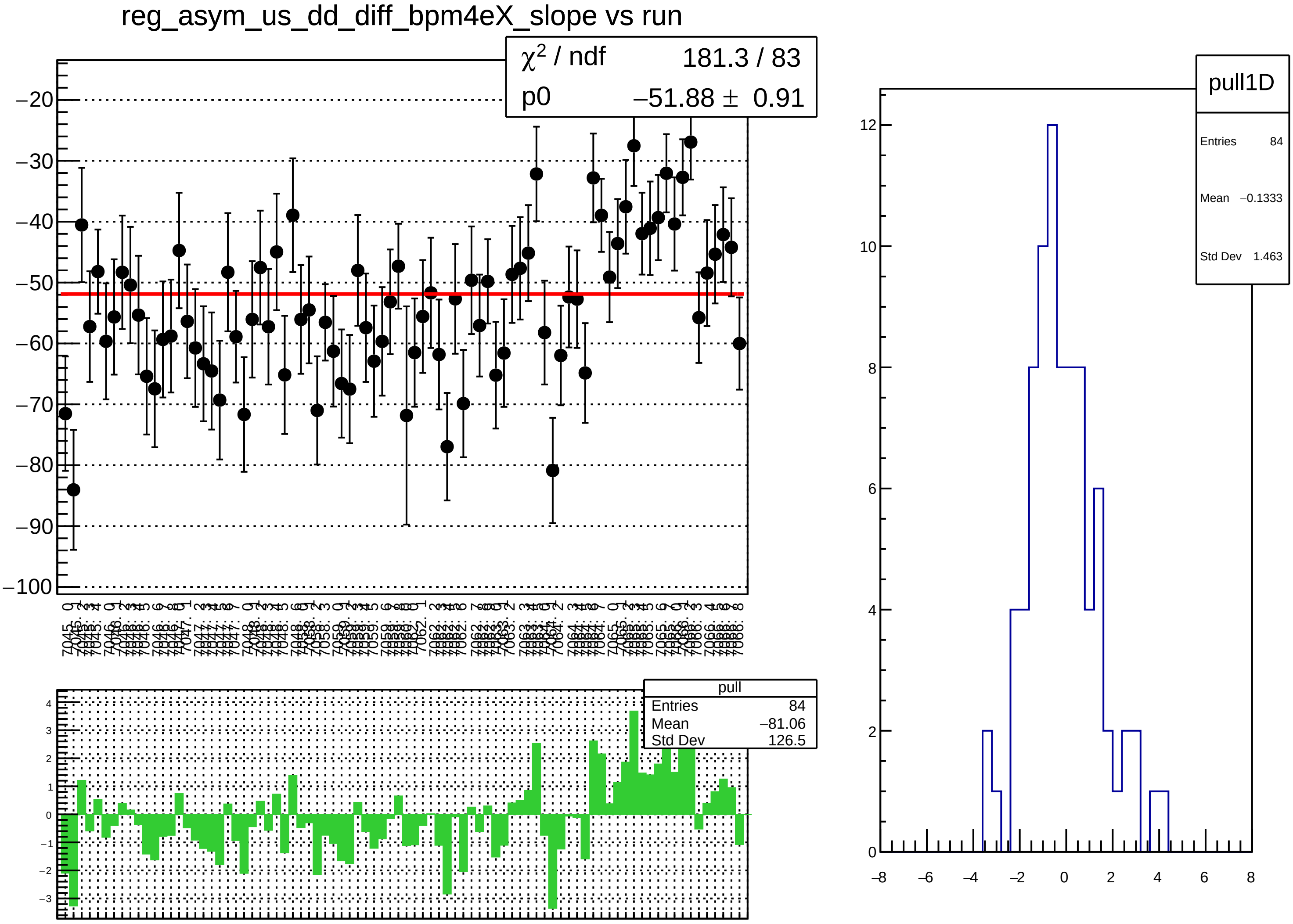

reg_asym_us_avg_diff_bpm12X_slope vs run
χ2 / ndf 39.32 / 83
p0 −37.9 ± 0.06459
pull
Entries 84
Mean 461.3
Std Dev 424
pull1D
Entries 84
Mean 0.01821
Std Dev 0.6839

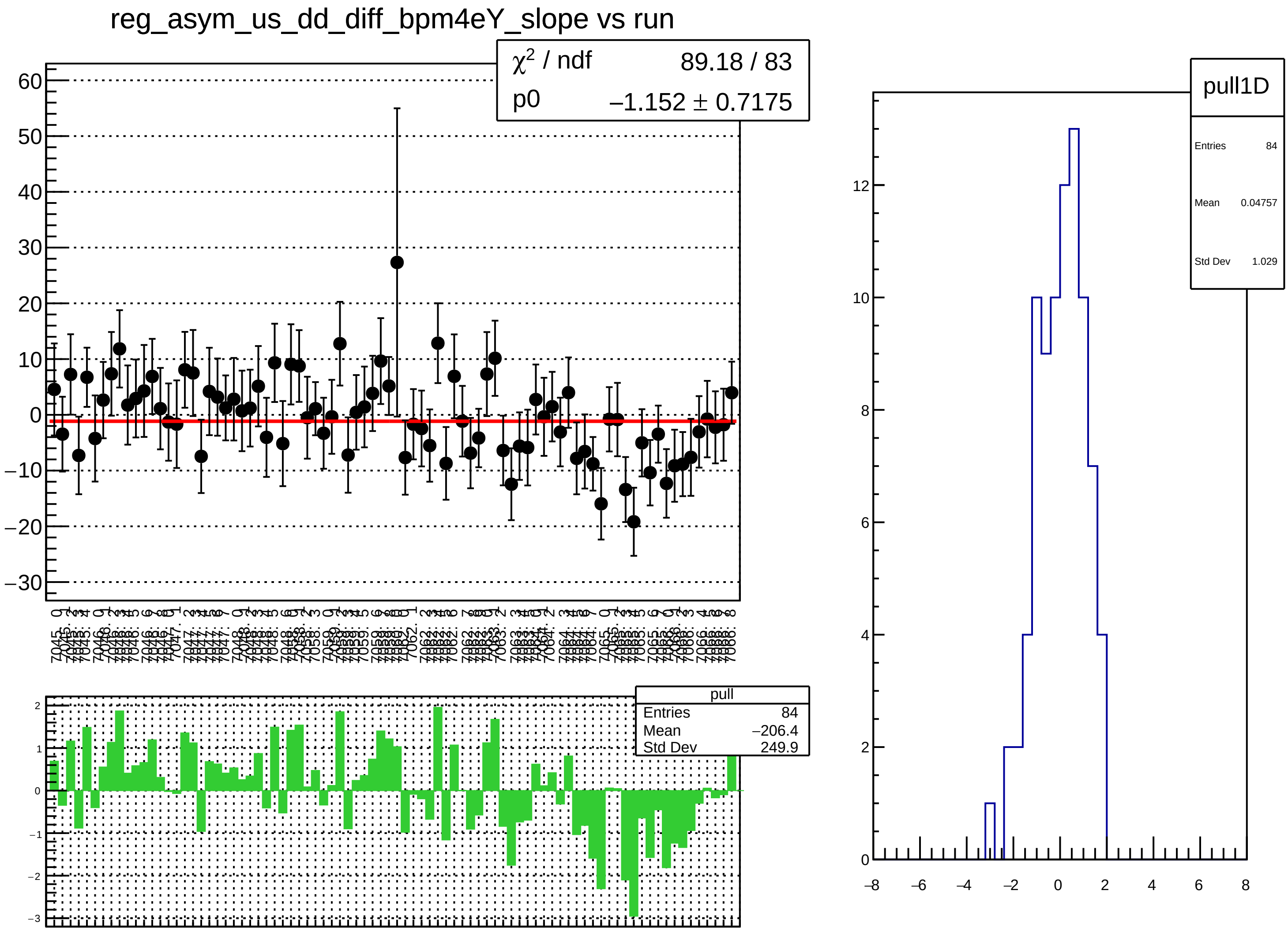


reg_asym_us_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 174.4 / 83
p0 −7.357 ± 0.9509
pull
Entries 84
Mean −73.04
Std Dev 118.8
pull1D
Entries 84
Mean 0.1323
Std Dev 1.435

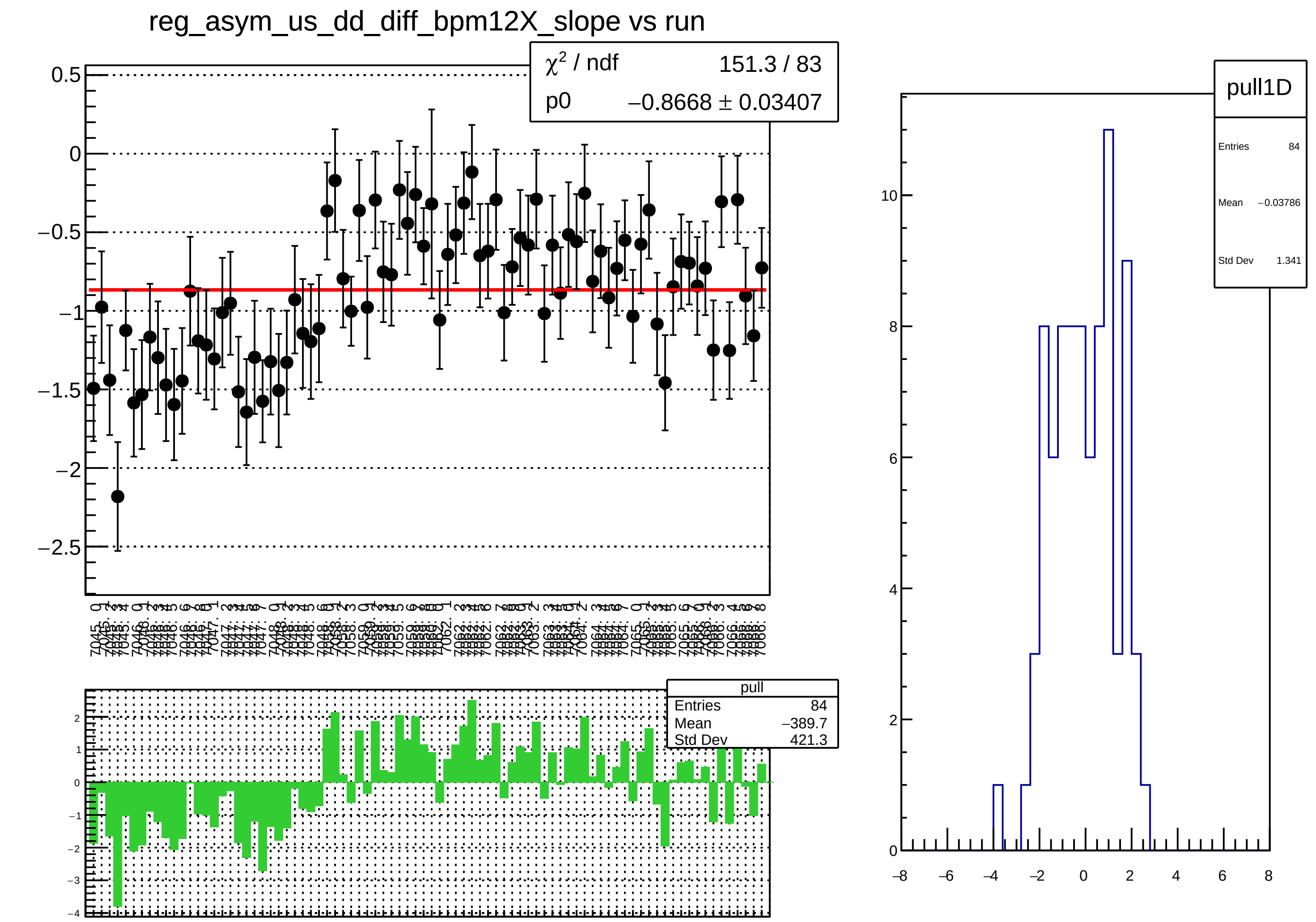


reg_asym_us_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 84.38 / 83
p0 2.887 ± 0.6726
pull
Entries 84
Mean −205.4
Std Dev 248.1
pull1D
Entries 84
Mean −0.0441
Std Dev 1.001

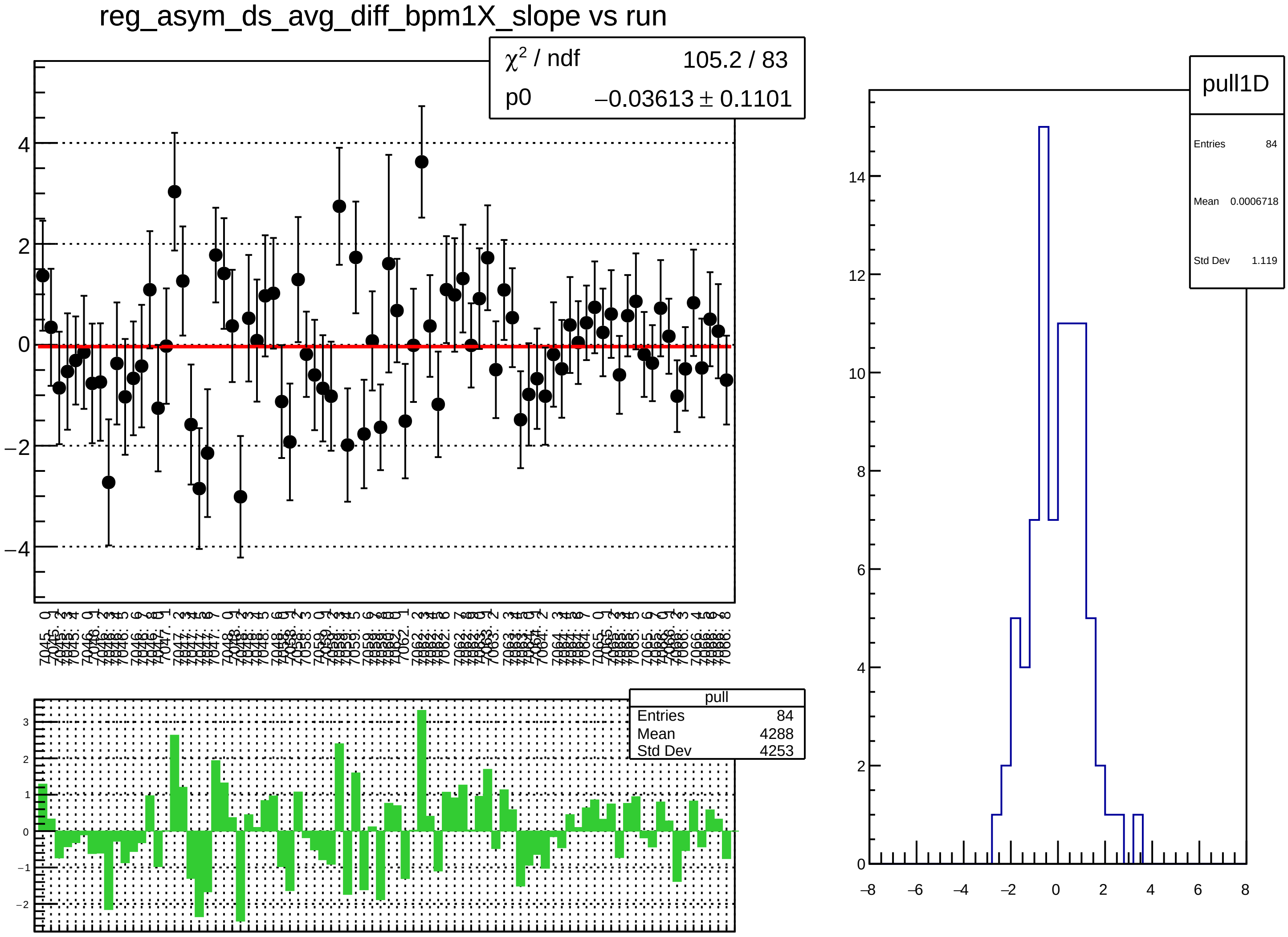

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ2 / ndf 181.3 / 83
p0 −51.88 ± 0.91
pull
Entries 84
Mean −81.06
Std Dev 126.5
pull1D
Entries 84
Mean −0.1333
Std Dev 1.463



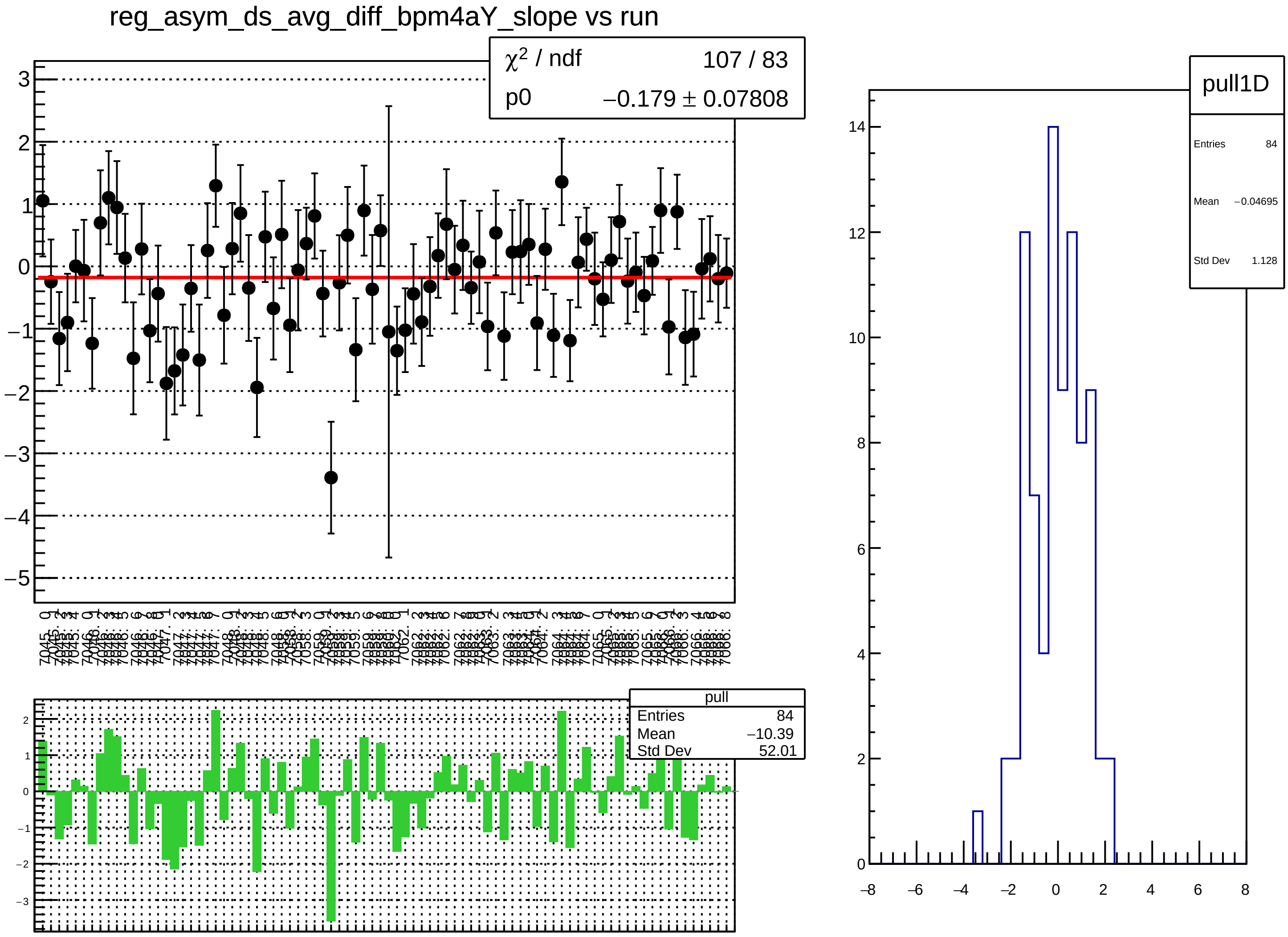
reg_asym_us_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 89.18 / 83
p0 −1.152 ± 0.7175
pull
Entries 84
Mean −206.4
Std Dev 249.9
pull1D
Entries 84
Mean 0.04757
Std Dev 1.029

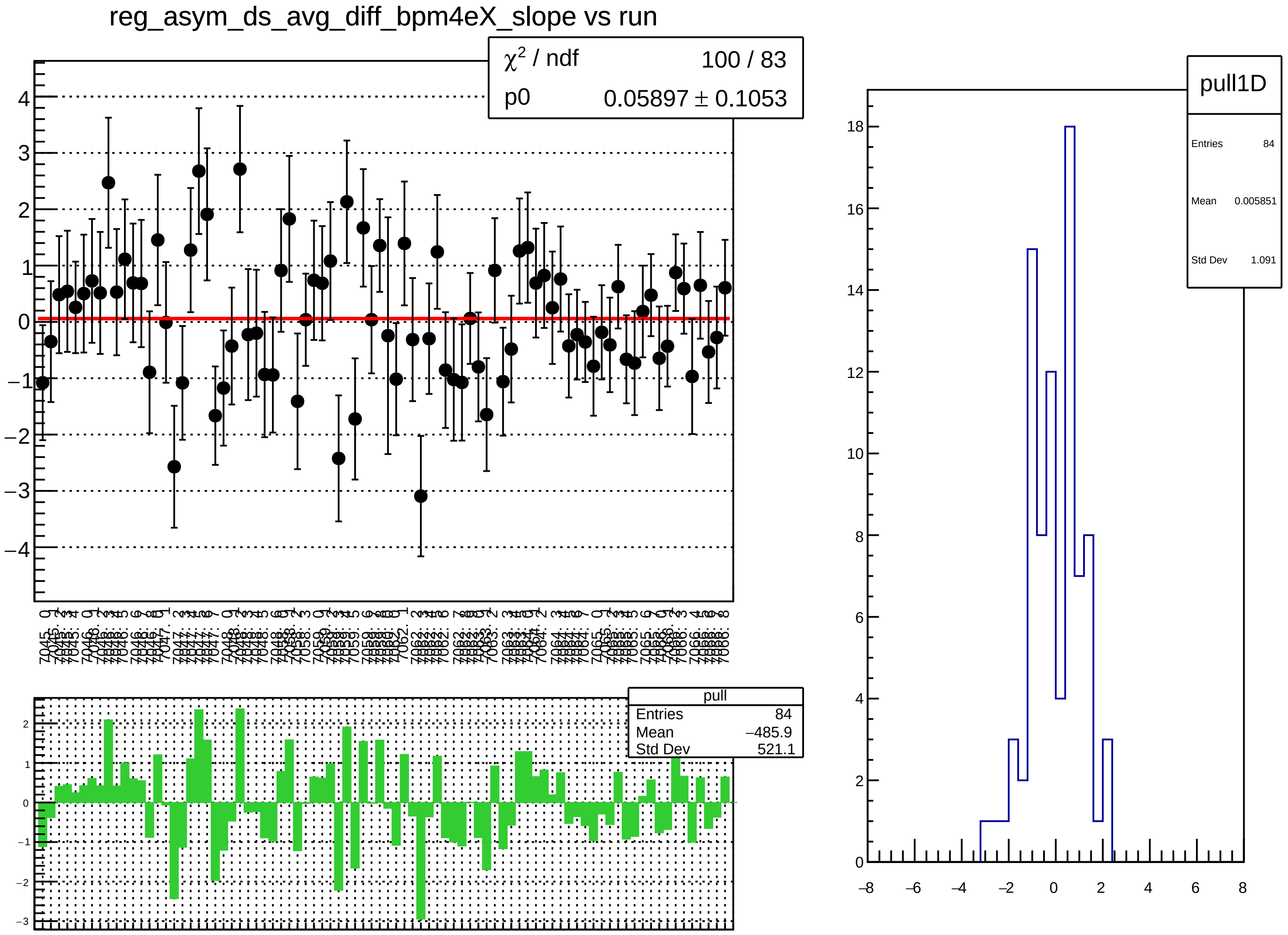


reg_asym_us_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 151.3 / 83
p0 −0.8668 ± 0.03407
pull
Entries 84
Mean −389.7
Std Dev 421.3
pull1D
Entries 84
Mean −0.03786
Std Dev 1.341

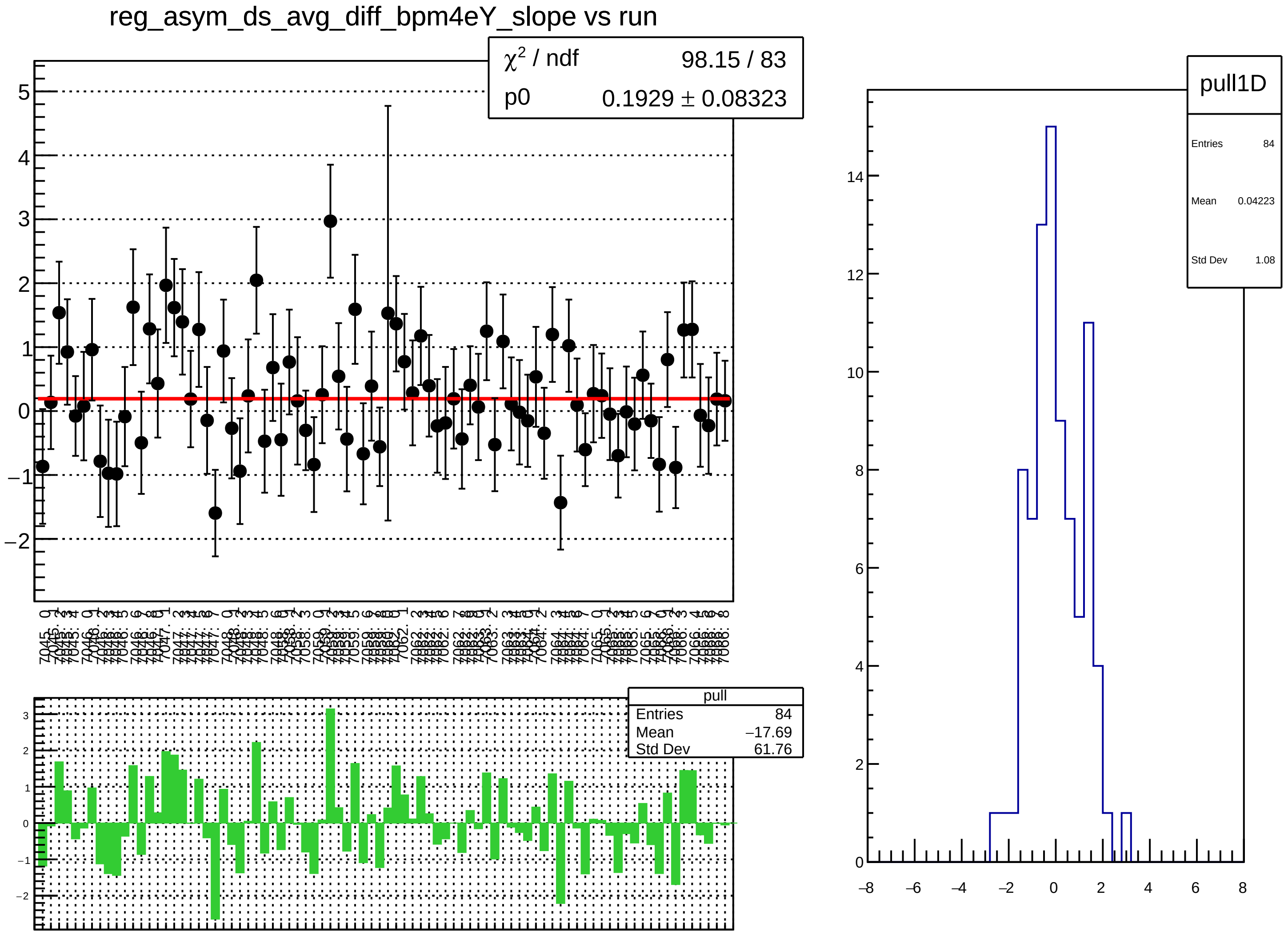


reg_asym_ds_avg_diff_bpm1X_slope vs run
χ2 / ndf 105.2 / 83
p0 −0.03613 ± 0.1101
pull
Entries 84
Mean 4288
Std Dev 4253
pull1D
Entries 84
Mean 0.0006718
Std Dev 1.119

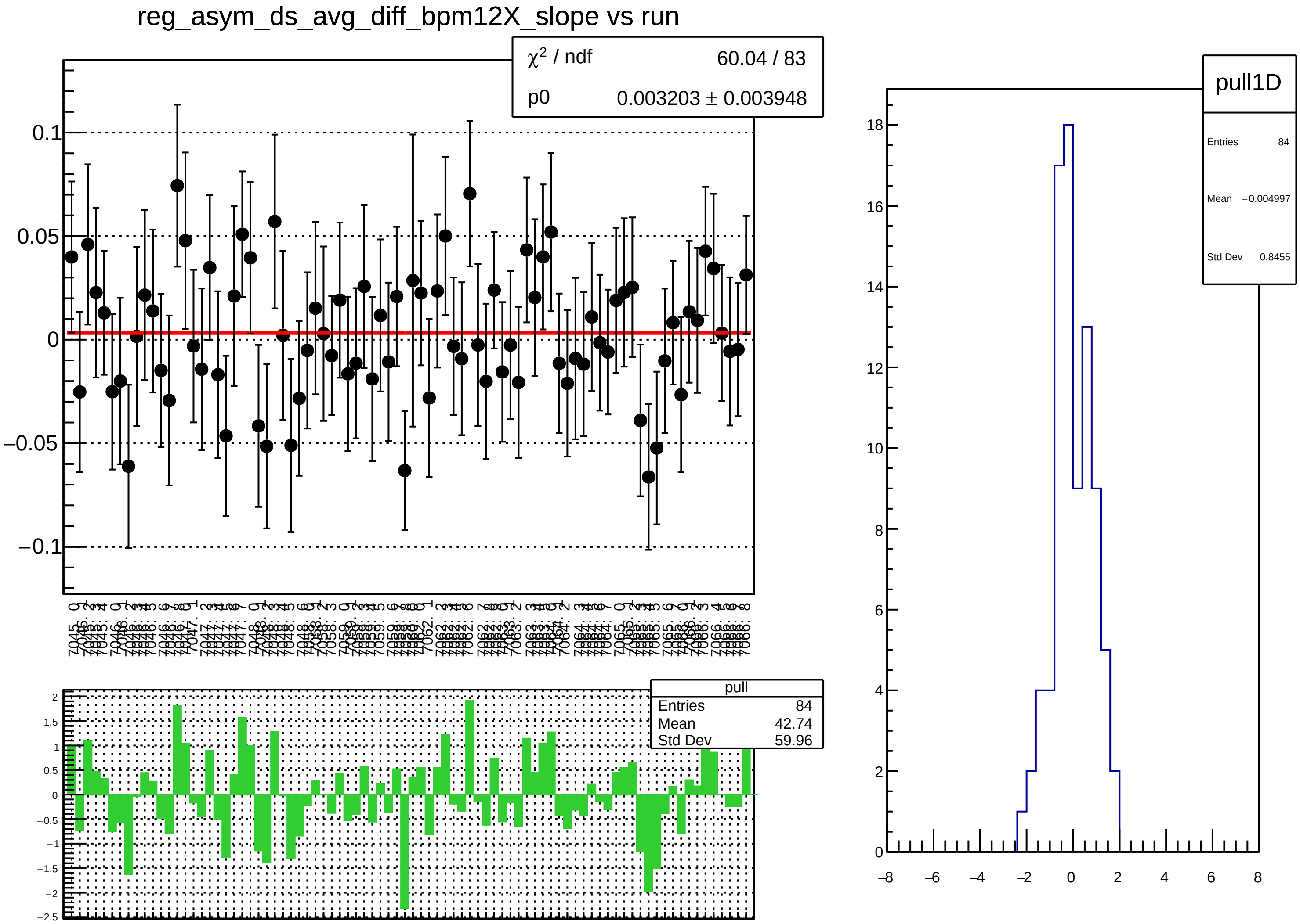

reg_asym_ds_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 107 / 83
p0 −0.179 ± 0.07808
pull
Entries 84
Mean −10.39
Std Dev 52.01
pull1D
Entries 84
Mean −0.04695
Std Dev 1.128



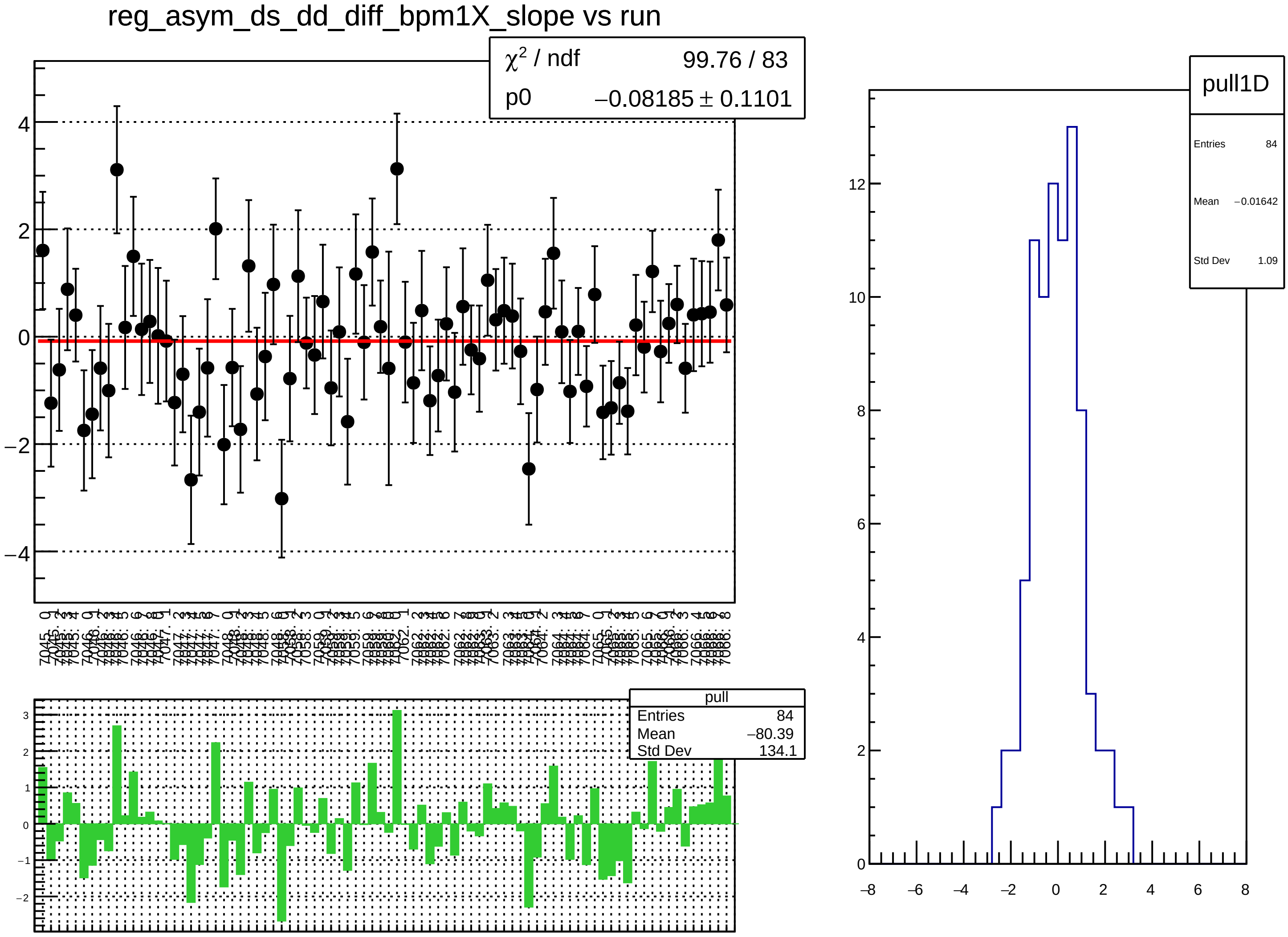
reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 100 / 83
p0 0.05897 ± 0.1053
pull
Entries 84
Mean −485.9
Std Dev 521.1
pull1D
Entries 84
Mean 0.005851
Std Dev 1.091



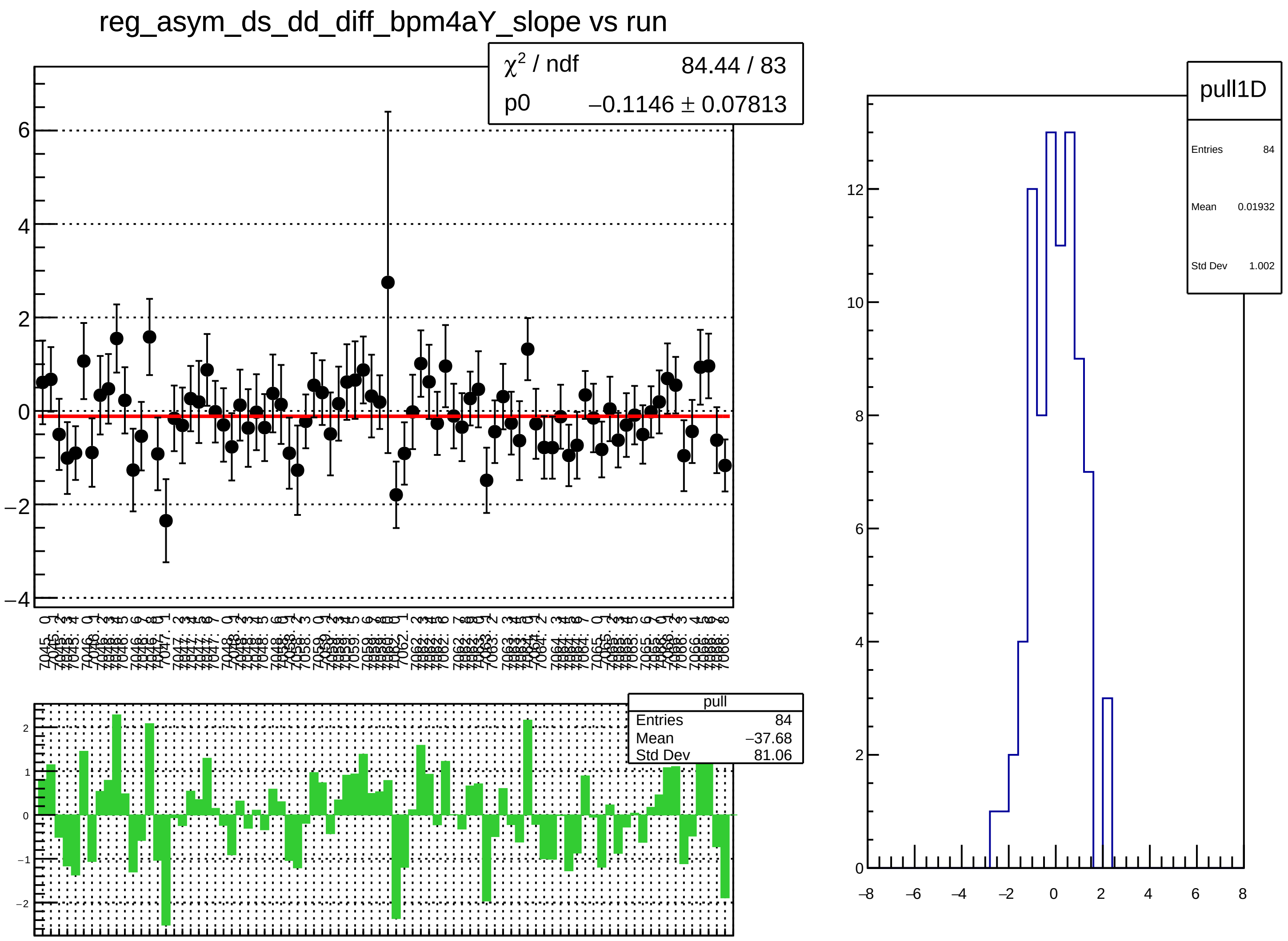
reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.15 / 83
p0 0.1929 ± 0.08323
pull
Entries 84
Mean −17.69
Std Dev 61.76
pull1D
Entries 84
Mean 0.04223
Std Dev 1.08



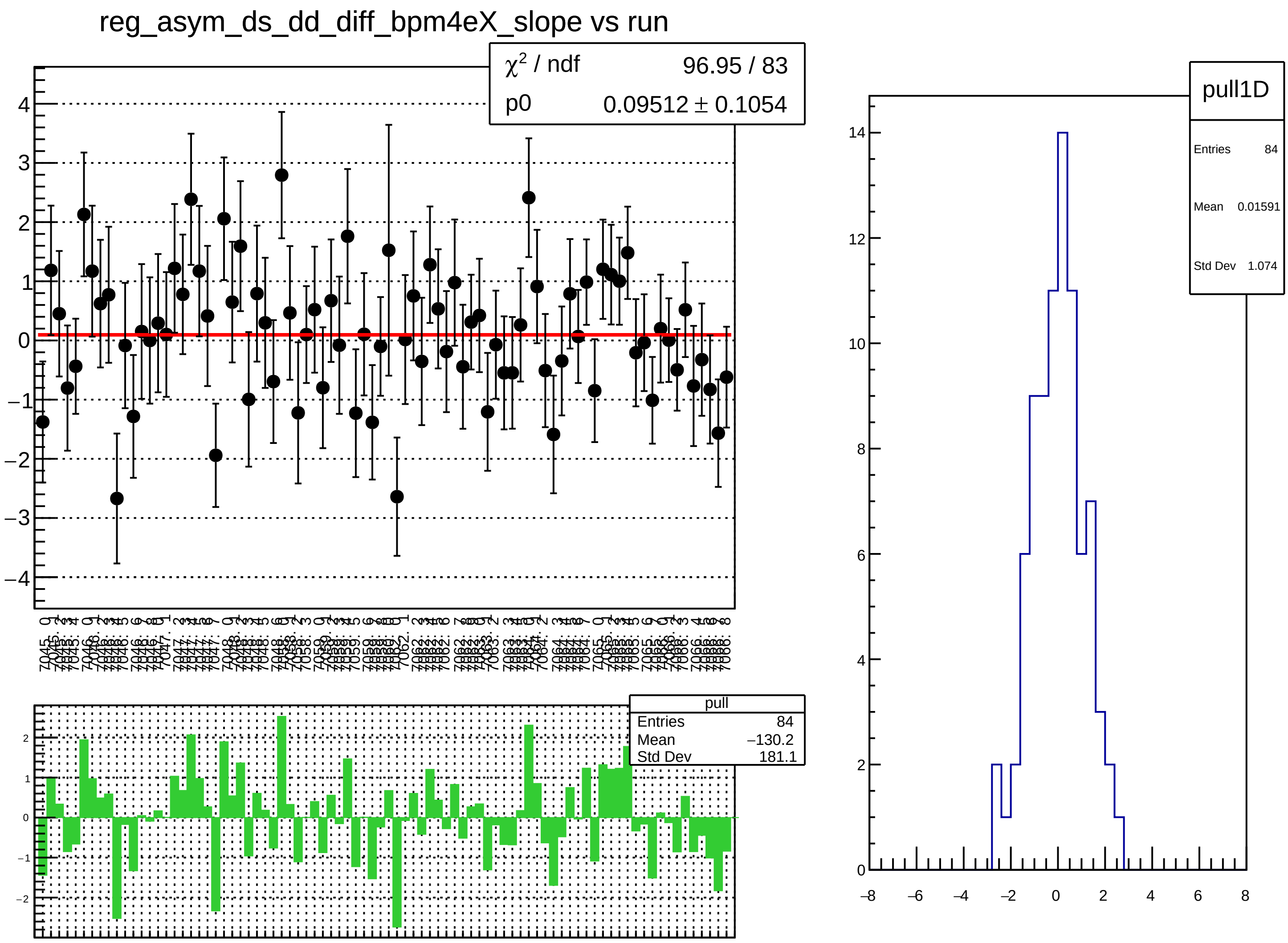
reg_asym_ds_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 60.04 / 83
p0 0.003203 ± 0.003948
pull
Entries 84
Mean 42.74
Std Dev 59.96
pull1D
Entries 84
Mean −0.004997
Std Dev 0.8455



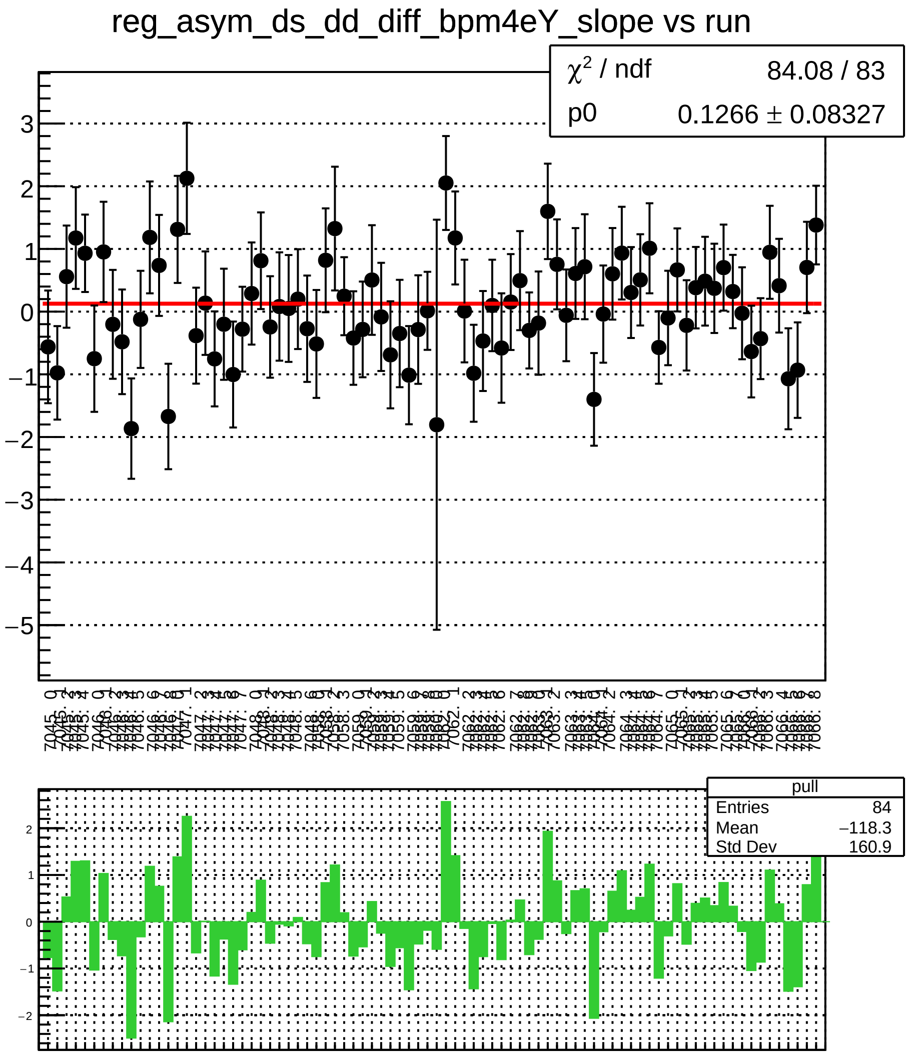
reg_asym_ds_dd_diff_bpm1X_slope vs run
χ2 / ndf 99.76 / 83
p0 −0.08185 ± 0.1101
pull
Entries 84
Mean −80.39
Std Dev 134.1
pull1D
Entries 84
Mean −0.01642
Std Dev 1.09

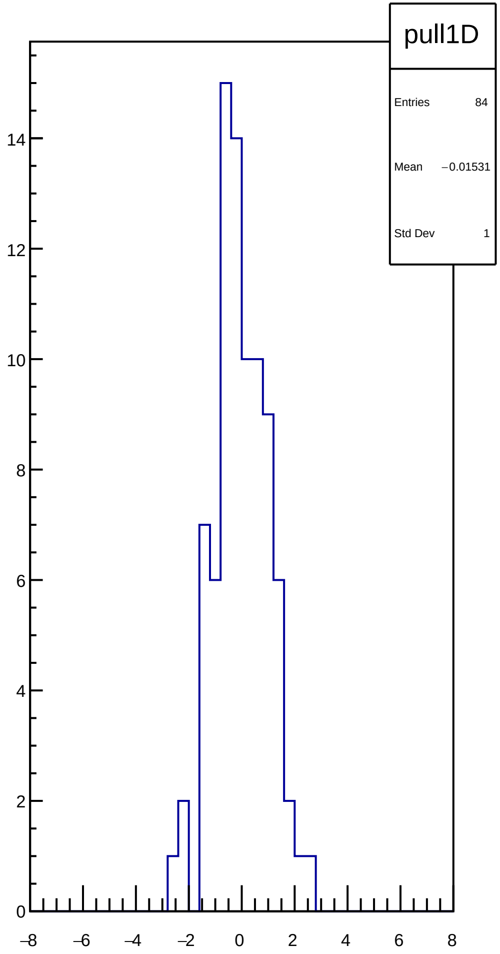


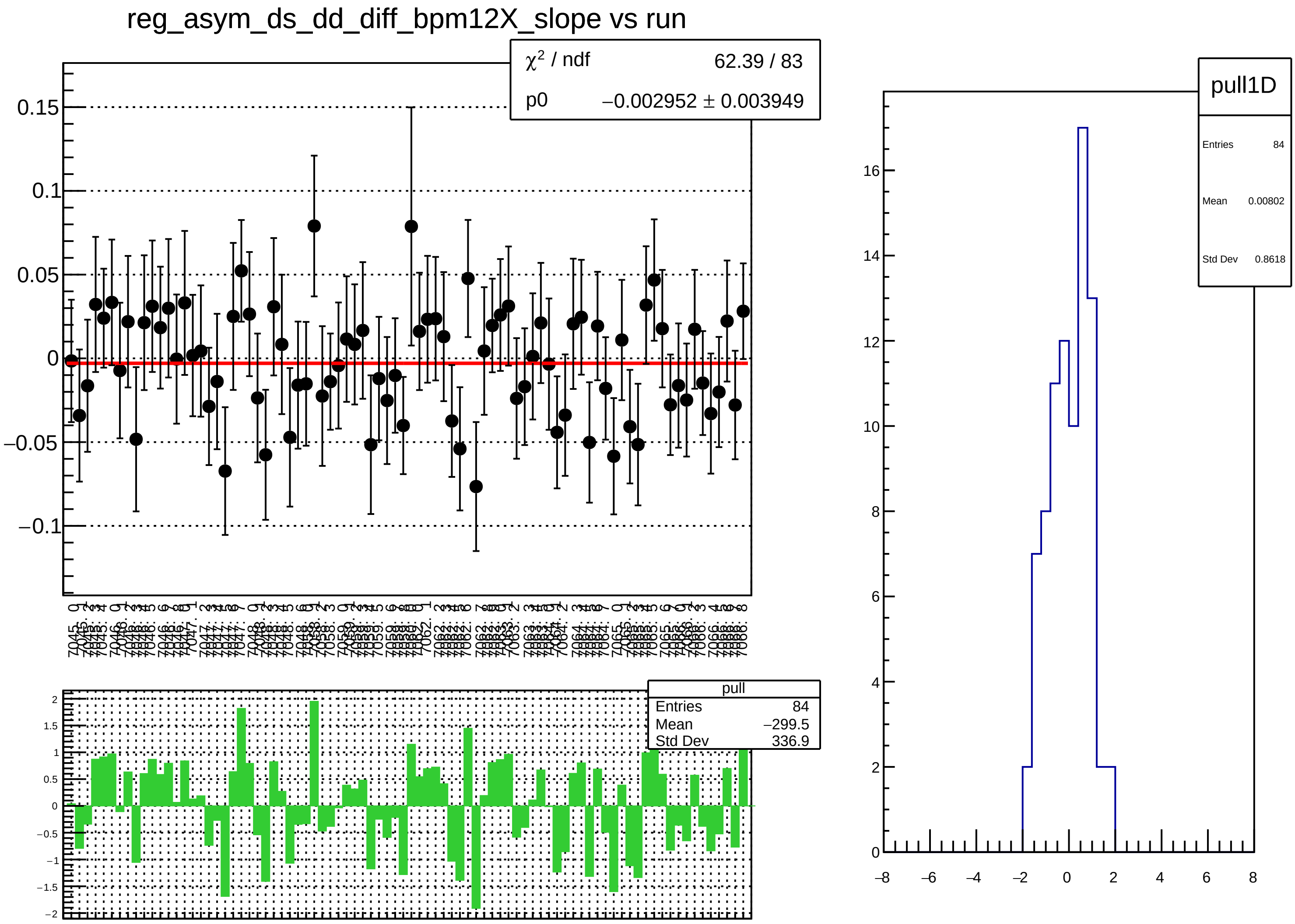
reg_asym_ds_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 84.44 / 83
p0 −0.1146 ± 0.07813
pull
Entries 84
Mean −37.68
Std Dev 81.06
pull1D
Entries 84
Mean 0.01932
Std Dev 1.002



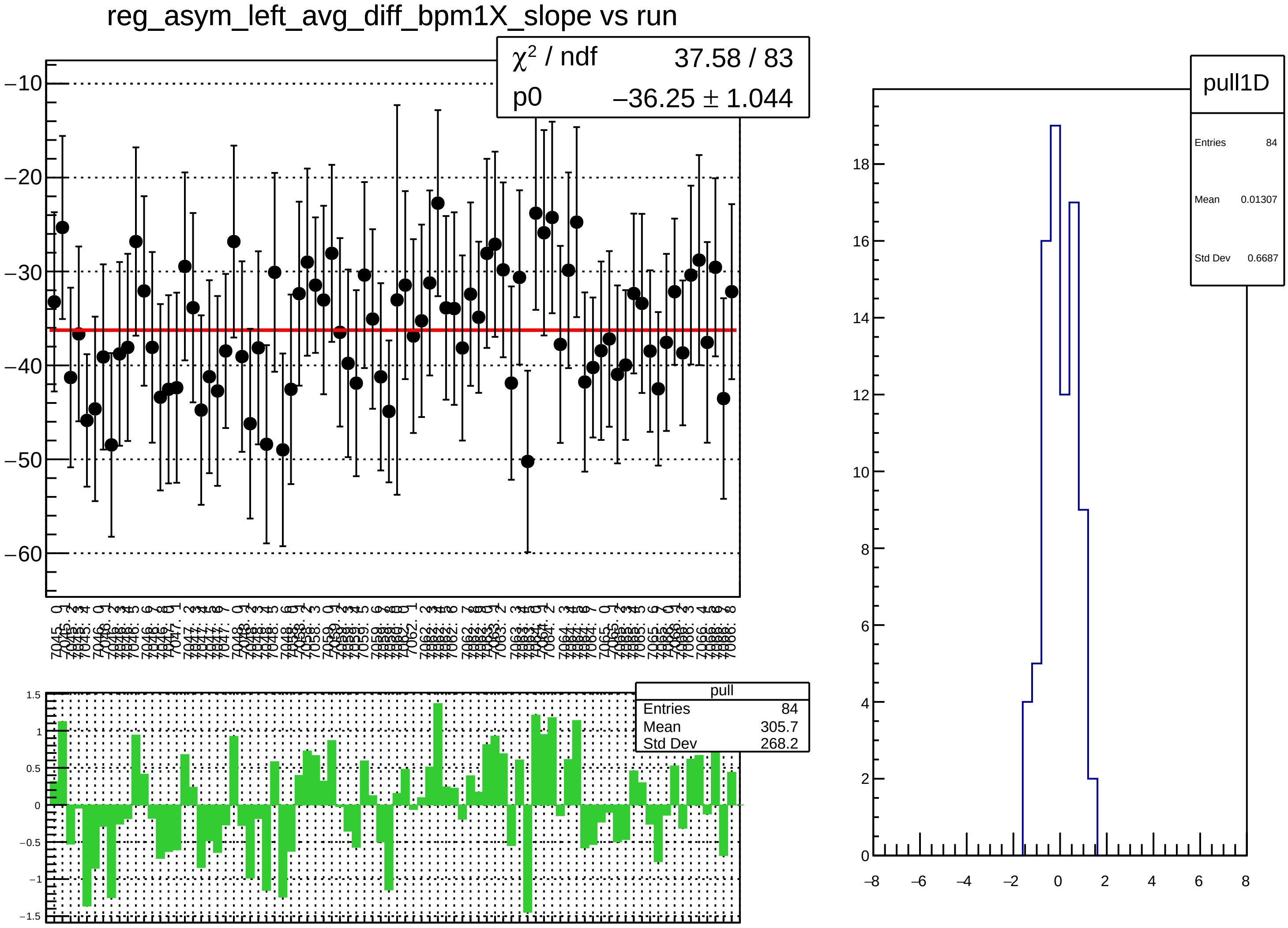
reg_asym_ds_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 96.95 / 83
p0 0.09512 ± 0.1054
pull
Entries 84
Mean −130.2
Std Dev 181.1
pull1D
Entries 84
Mean 0.01591
Std Dev 1.074


reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ2 / ndf 84.08 / 83
p0 0.1266 ± 0.08327
pull
Entries 84
Mean −118.3
Std Dev 160.9

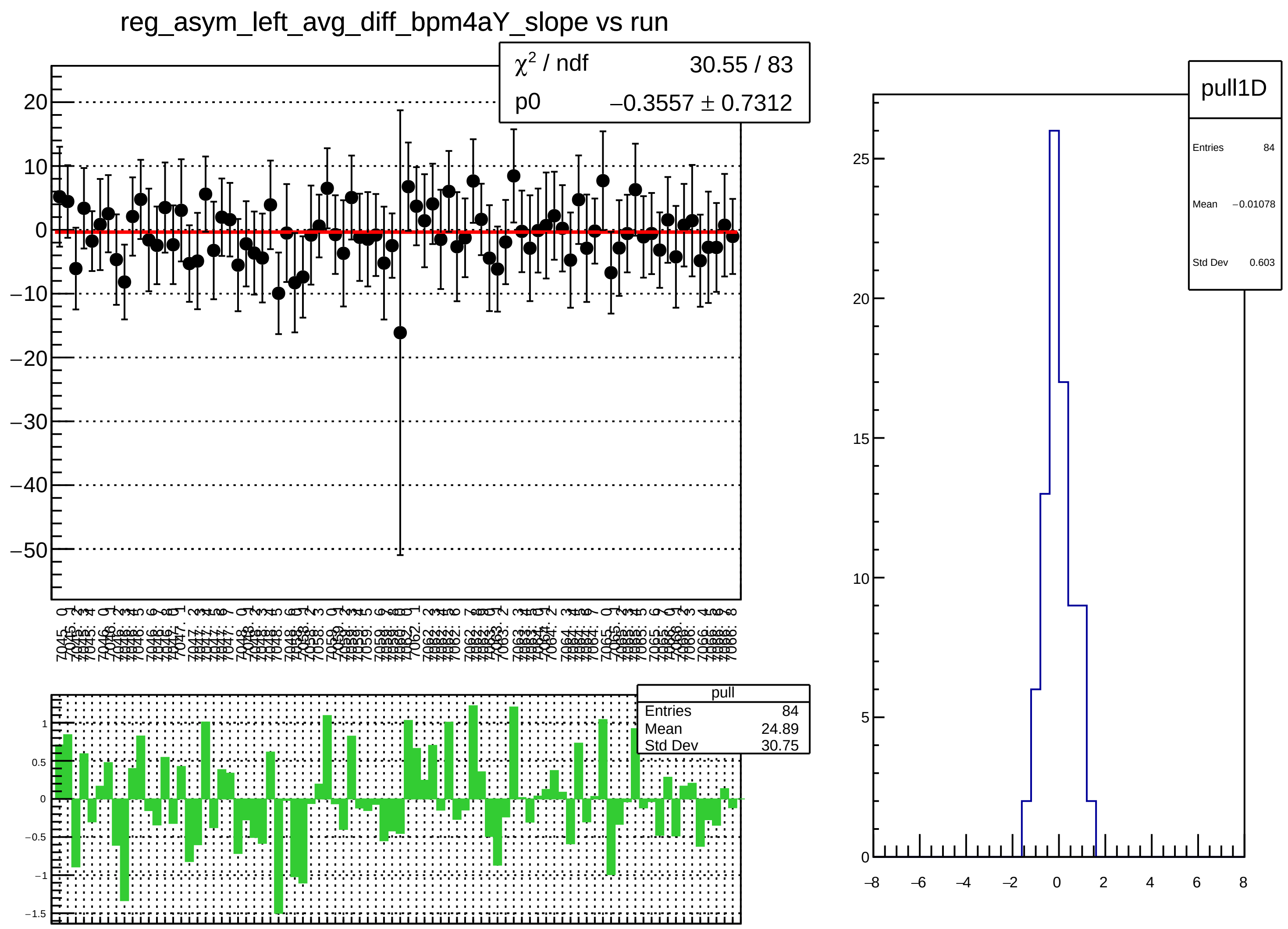

pull1D
Entries 84
Mean −0.01531
Std Dev 1



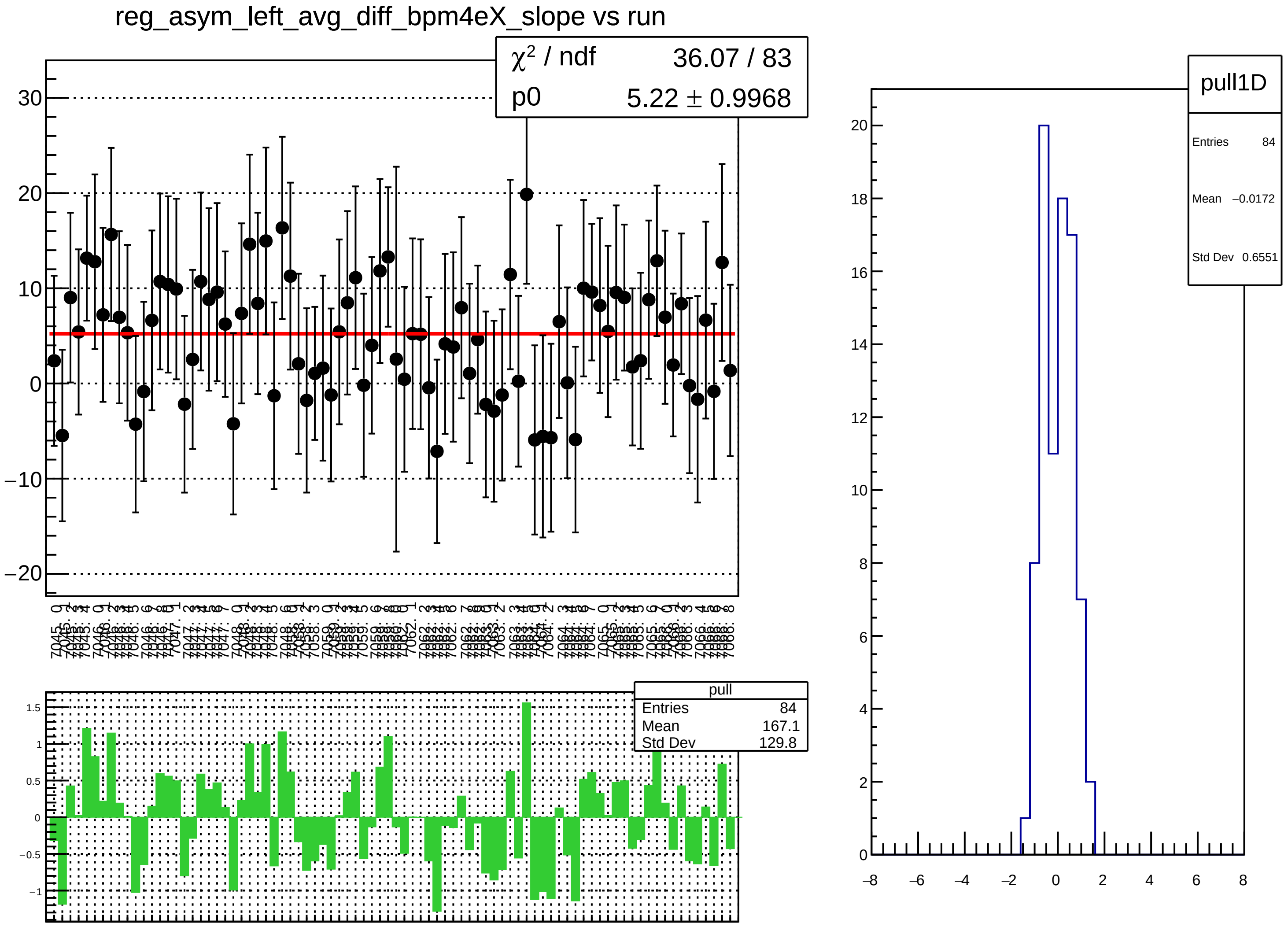
reg_asym_ds_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 62.39 / 83
p0 −0.002952 ± 0.003949
pull
Entries 84
Mean −299.5
Std Dev 336.9
pull1D
Entries 84
Mean 0.00802
Std Dev 0.8618



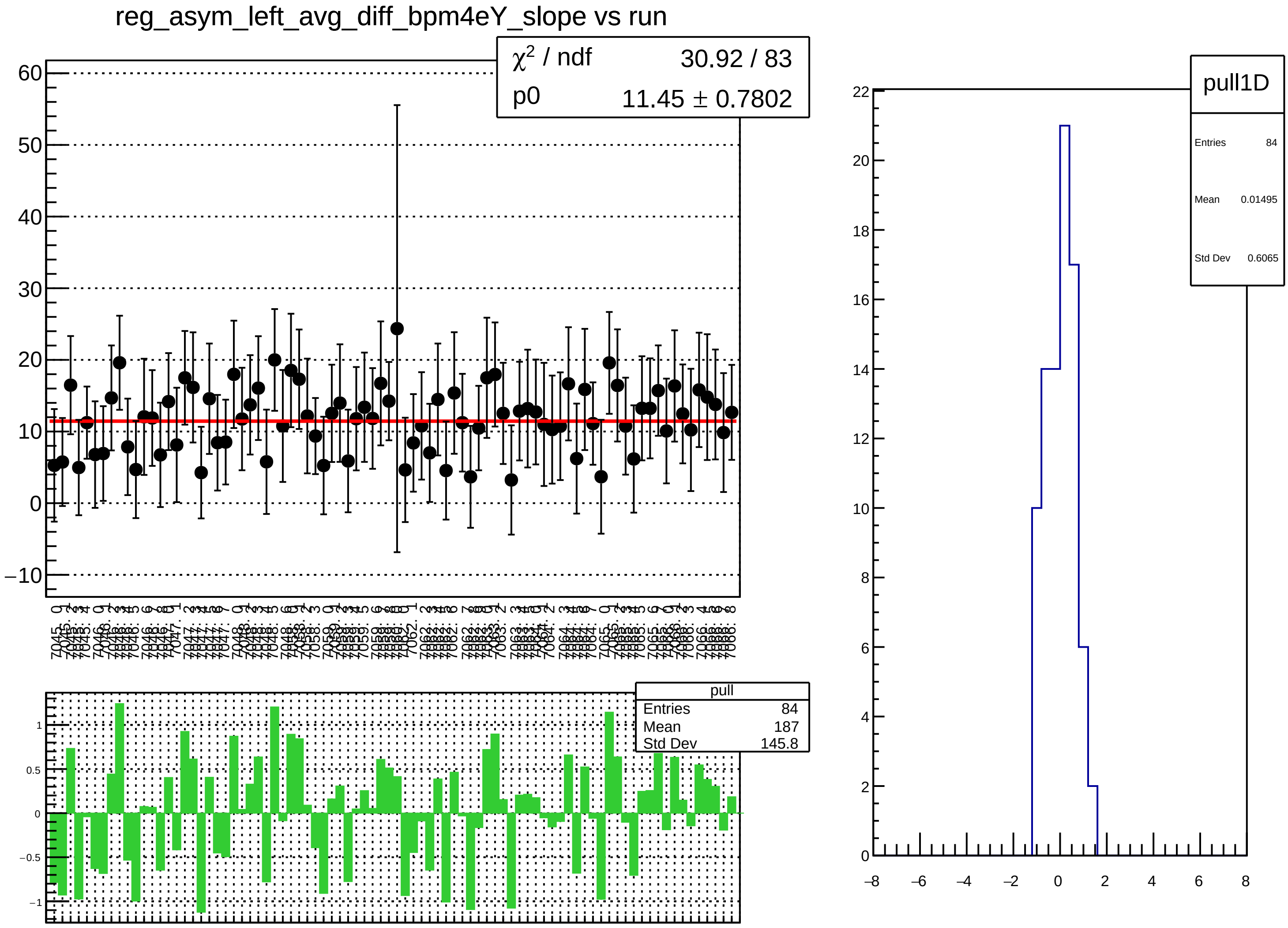
reg_asym_left_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 37.58 / 83
p0 −36.25 ± 1.044
−10
−20
−30
−40
−50
−60
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 84
Mean 305.7
Std Dev 268.2
pull1D
Entries 84
Mean 0.01307
Std Dev 0.6687
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



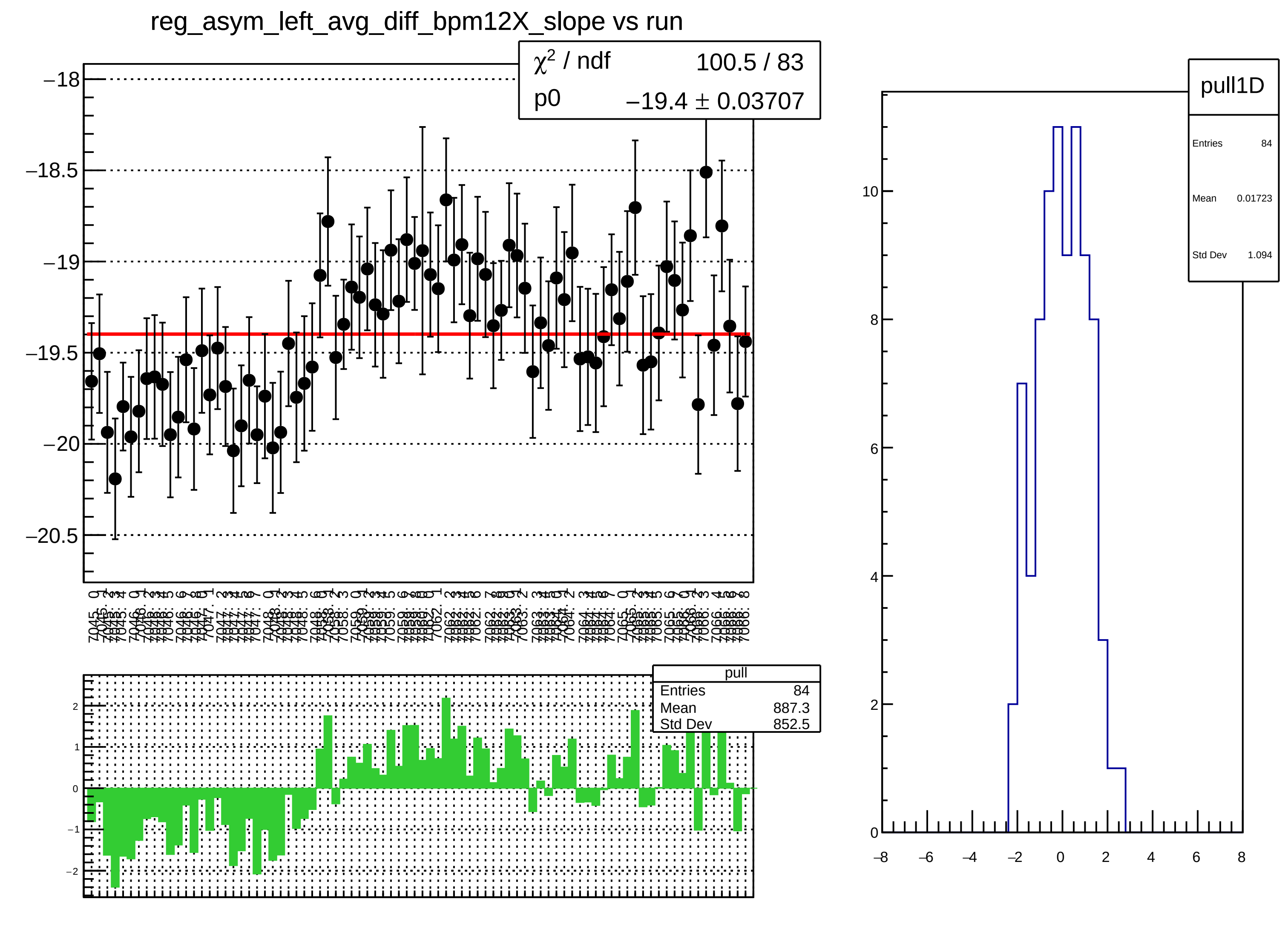
reg_asym_left_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 30.55 / 83
p0 −0.3557 ± 0.7312
pull
Entries 84
Mean 24.89
Std Dev 30.75
pull1D
Entries 84
Mean −0.01078
Std Dev 0.603



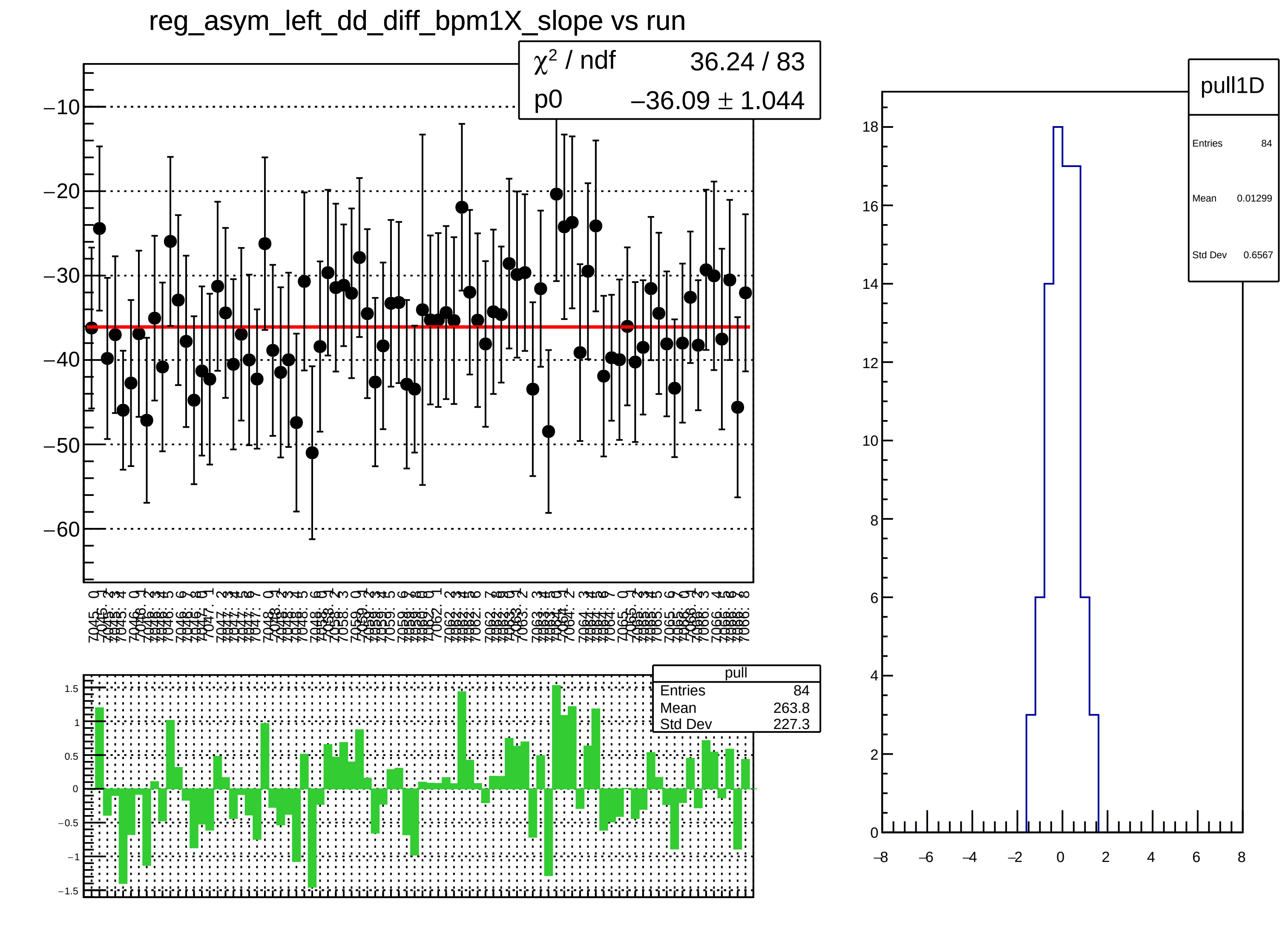
reg_asym_left_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 36.07 / 83
p0 5.22 ± 0.9968
pull
Entries 84
Mean 167.1
Std Dev 129.8
pull1D
Entries 84
Mean −0.0172
Std Dev 0.6551



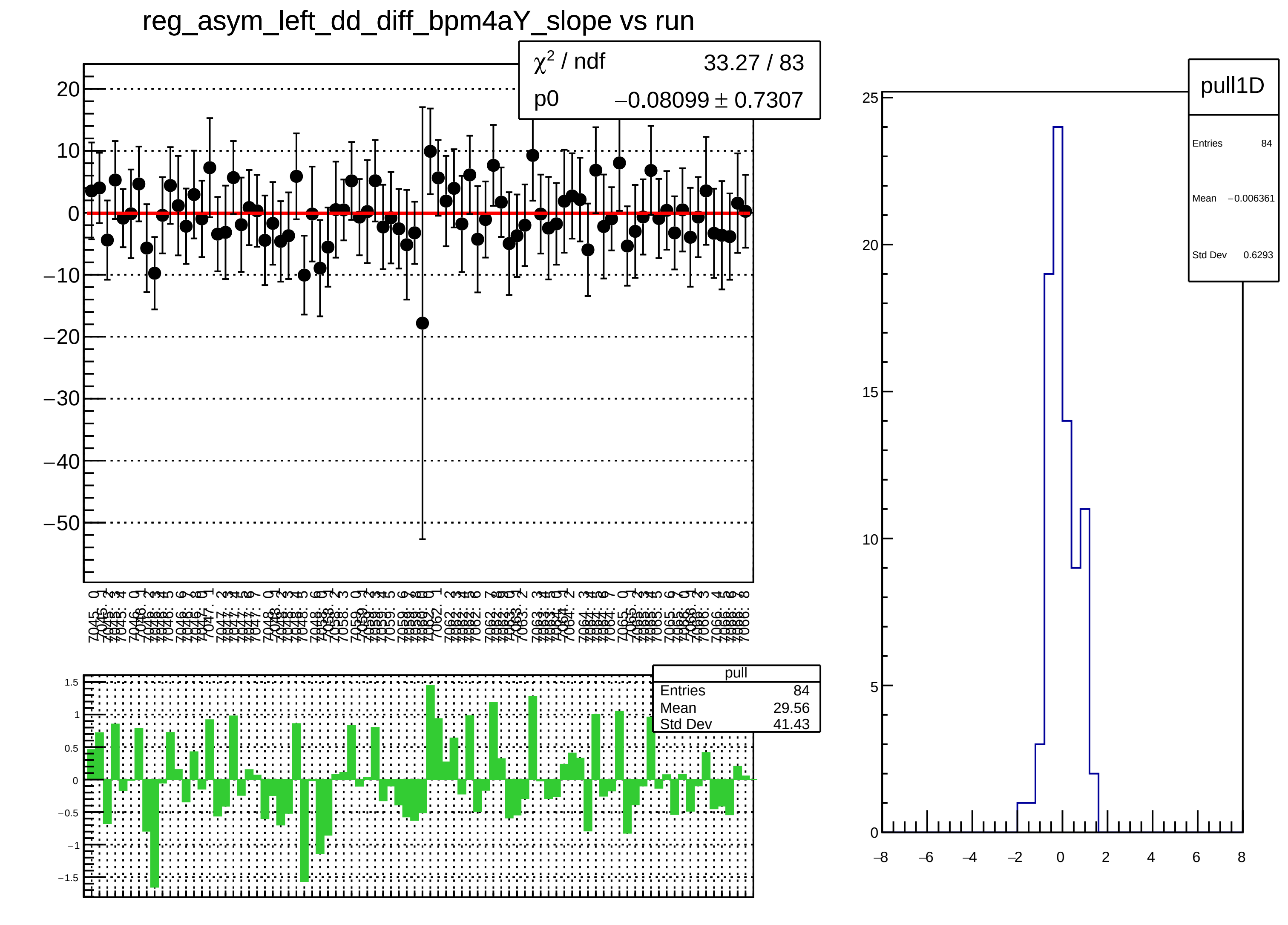
reg_asym_left_avg_diff_bpm4eY_slope vs run
χ2 / ndf 30.92 / 83
p0 11.45 ± 0.7802
pull
Entries 84
Mean 187
Std Dev 145.8
pull1D
Entries 84
Mean 0.01495
Std Dev 0.6065



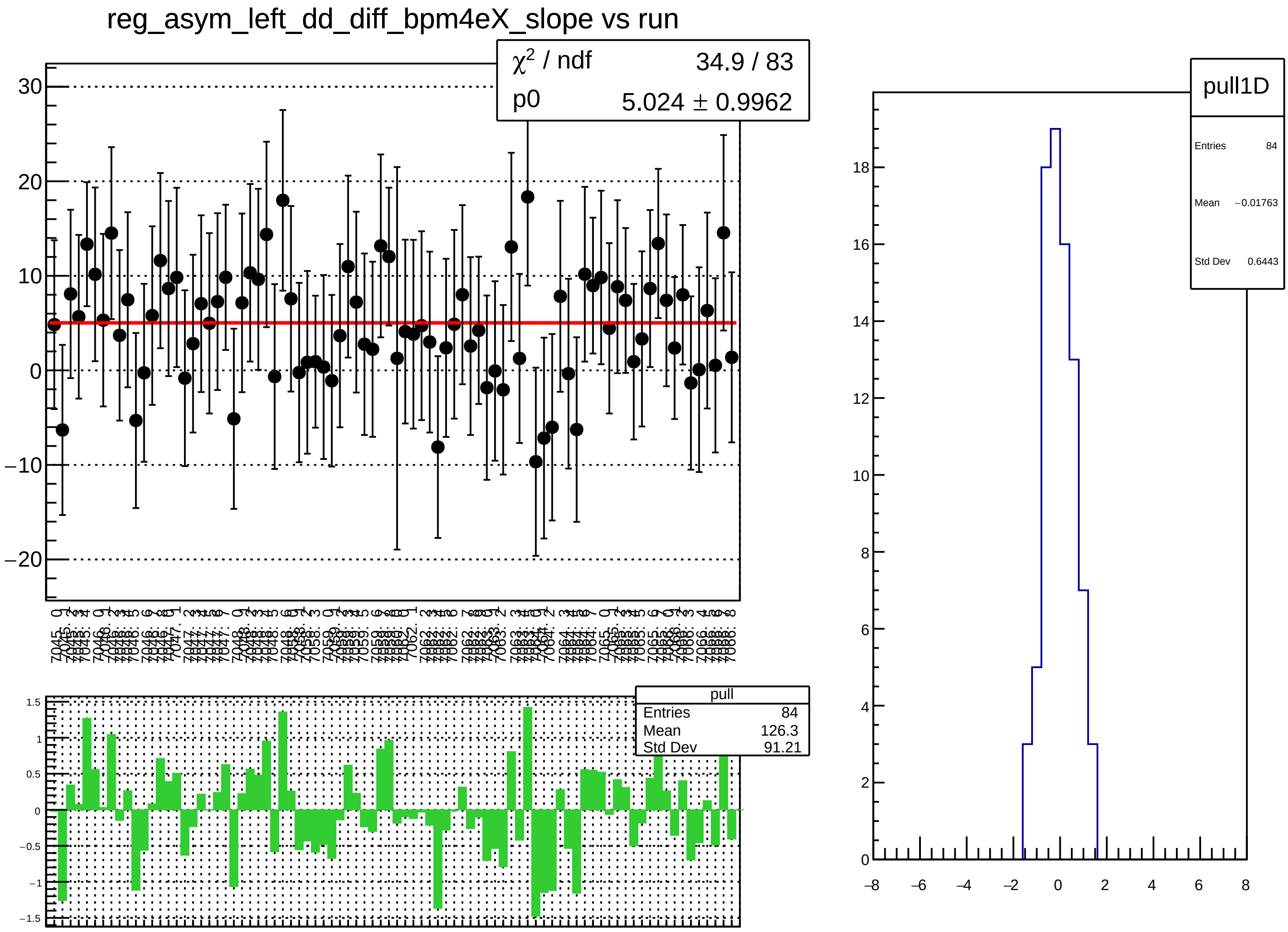
reg_asym_left_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 100.5 / 83
p0 −19.4 ± 0.03707
pull
Entries 84
Mean 887.3
Std Dev 852.5
pull1D
Entries 84
Mean 0.01723
Std Dev 1.094



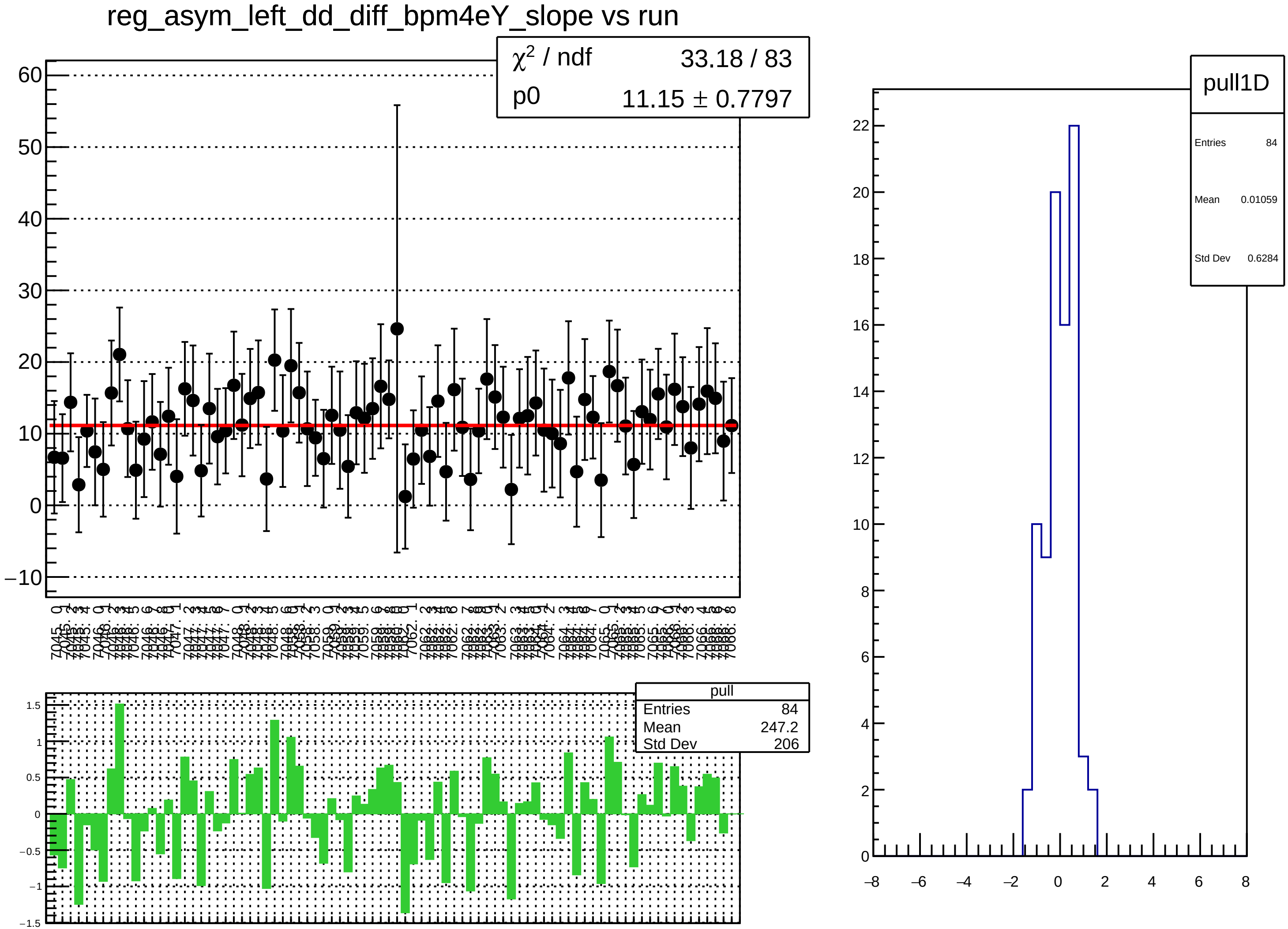
reg_asym_left_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 36.24 / 83
p0 −36.09 ± 1.044
pull
Entries 84
Mean 263.8
Std Dev 227.3
pull1D
Entries 84
Mean 0.01299
Std Dev 0.6567



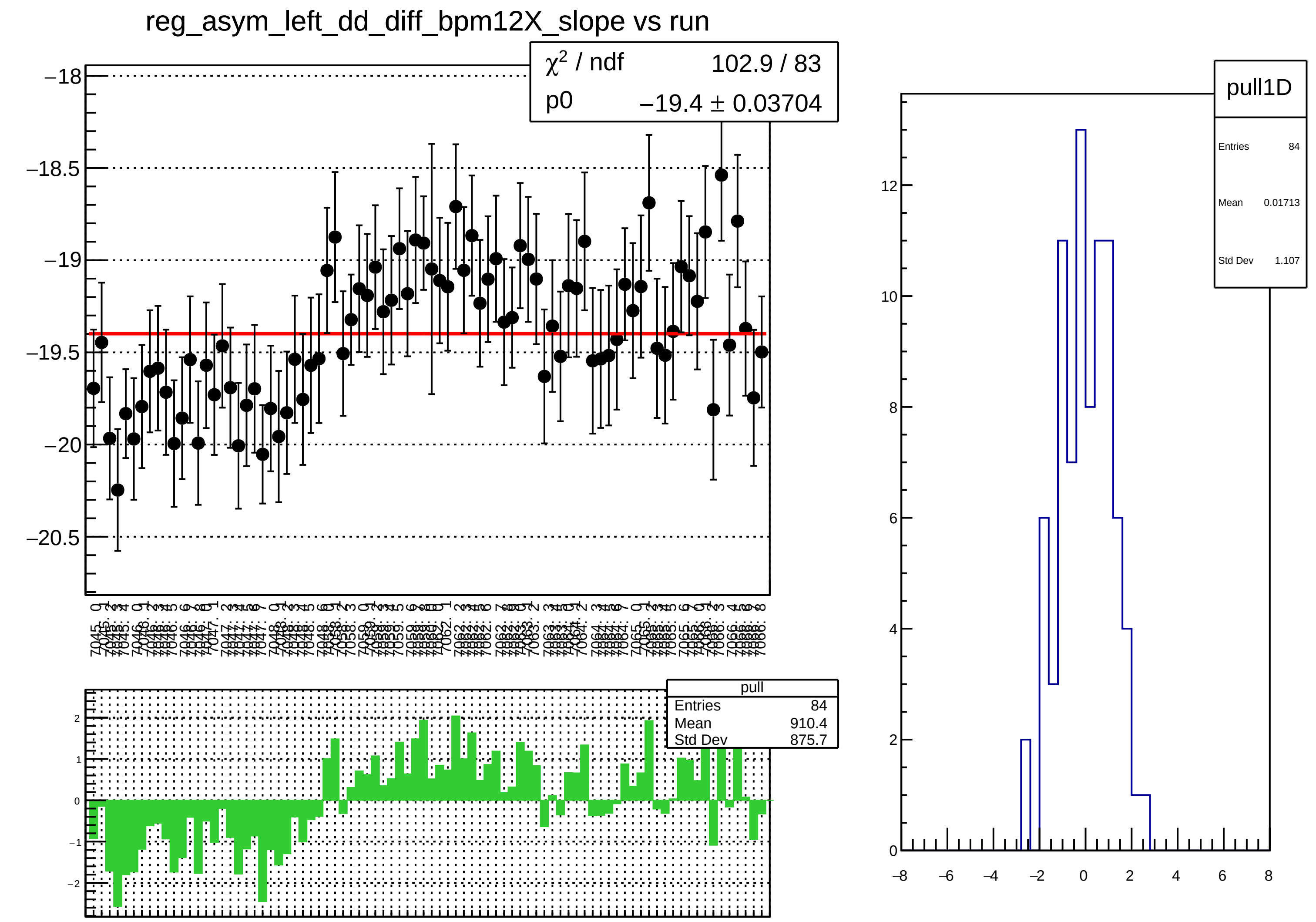
reg_asym_left_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 33.27 / 83
p0 −0.08099 ± 0.7307
pull
Entries 84
Mean 29.56
Std Dev 41.43
pull1D
Entries 84
Mean −0.006361
Std Dev 0.6293



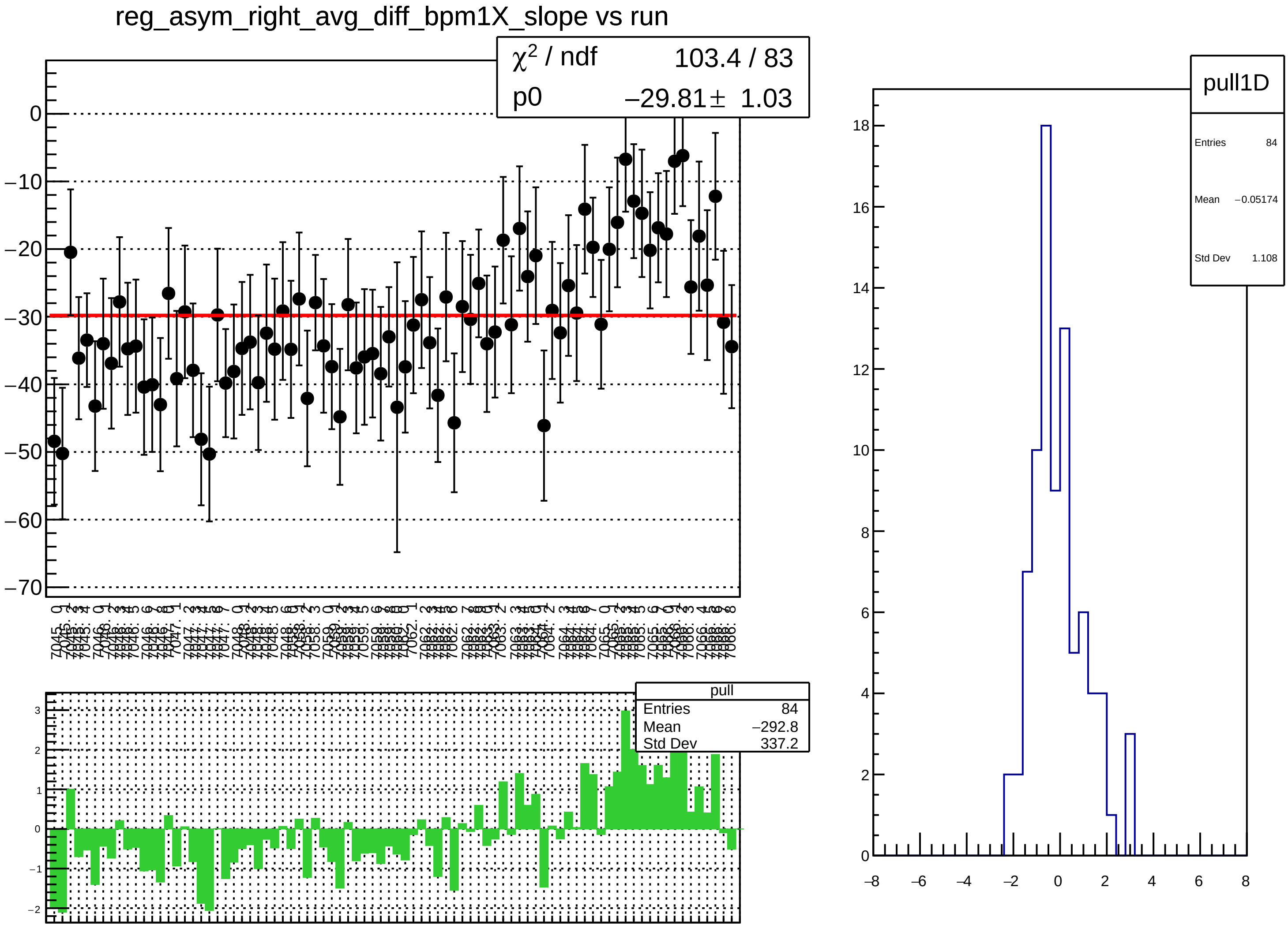
reg_asym_left_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 34.9 / 83
p0 5.024 ± 0.9962
pull
Entries 84
Mean 126.3
Std Dev 91.21
pull1D
Entries 84
Mean −0.01763
Std Dev 0.6443

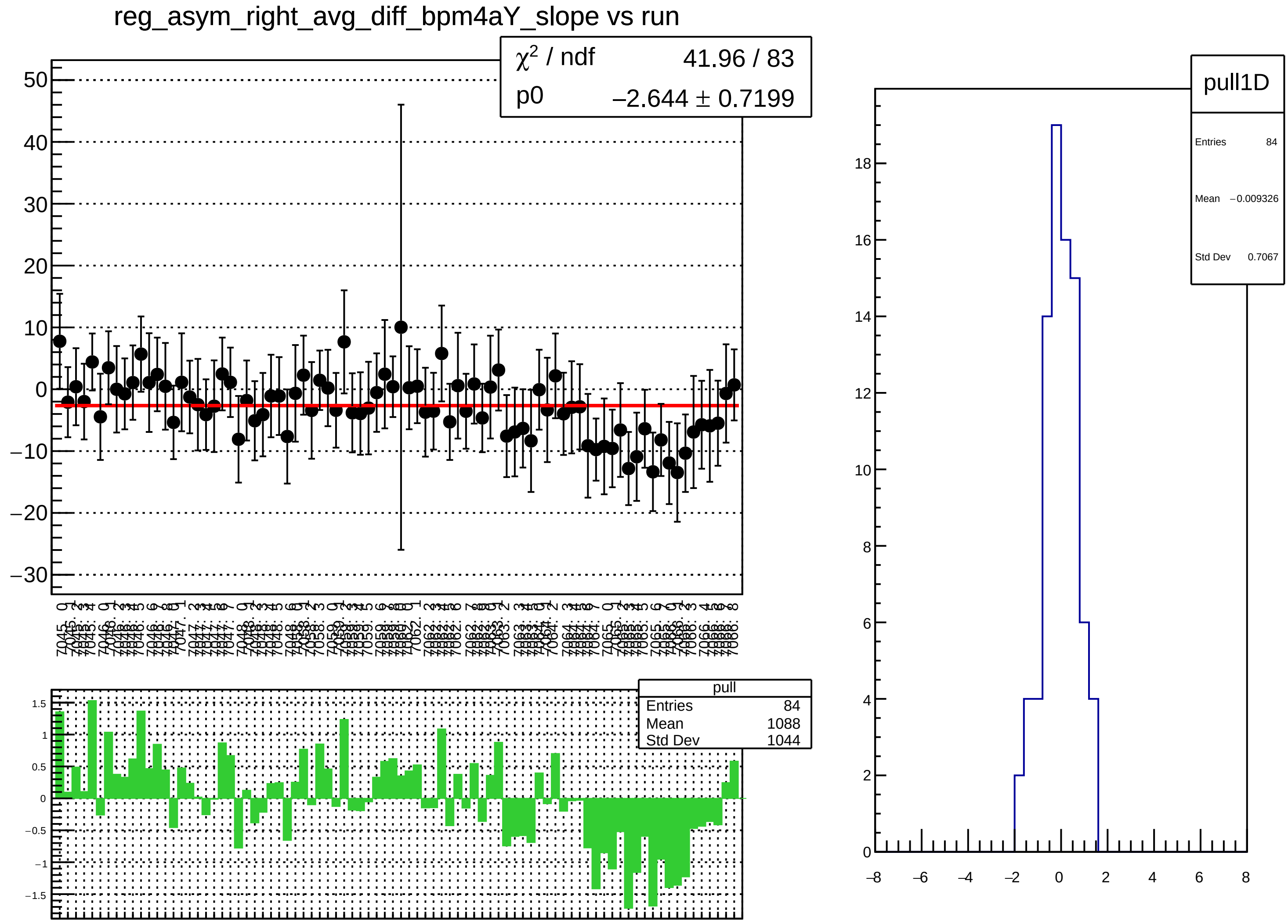


reg_asym_left_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 33.18 / 83
p0 11.15 ± 0.7797
pull
Entries 84
Mean 247.2
Std Dev 206
pull1D
Entries 84
Mean 0.01059
Std Dev 0.6284

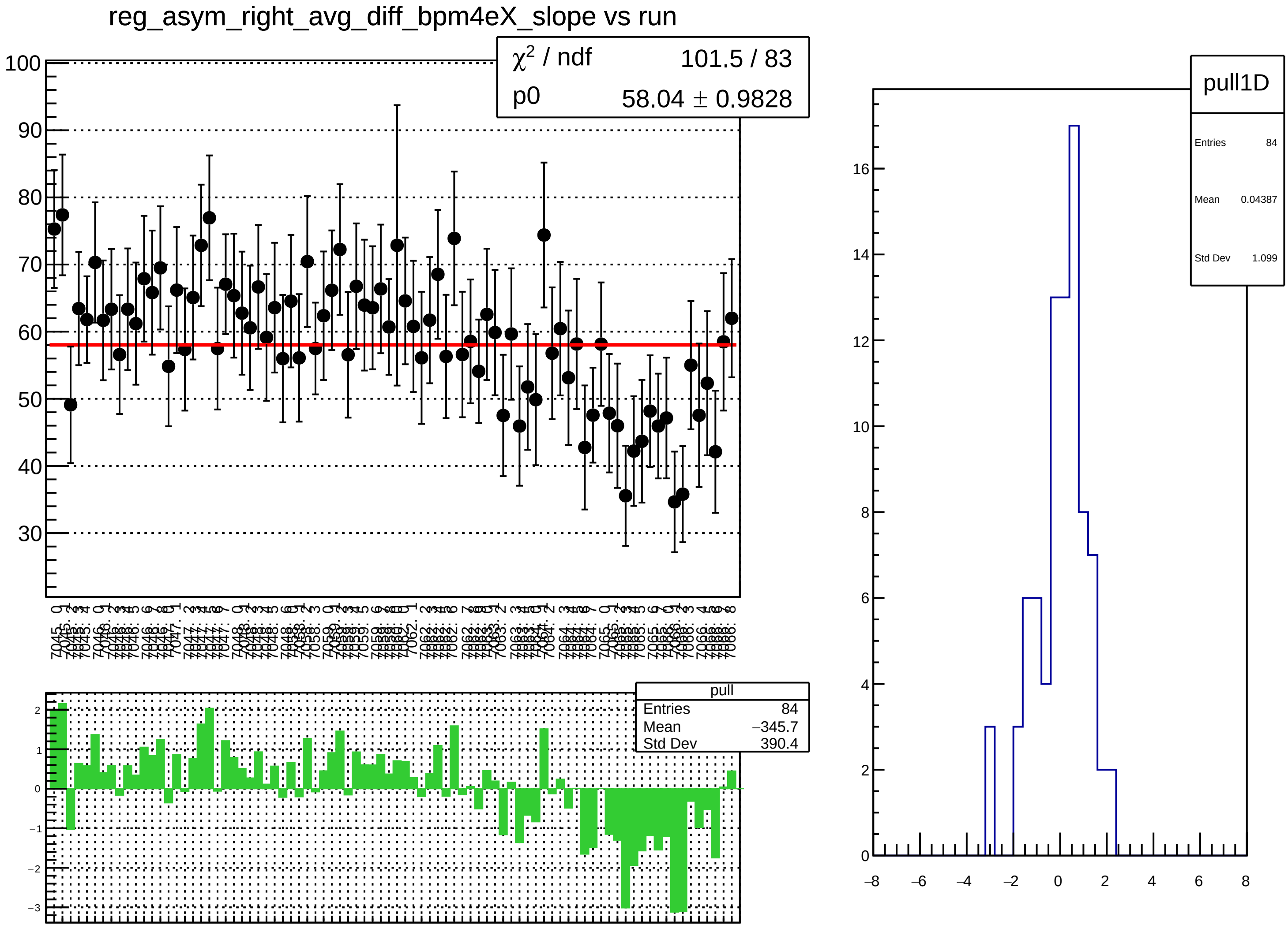


reg_asym_left_dd_diff_bpm12X_slope vs run
χ2 / ndf 102.9 / 83
p0 −19.4 ± 0.03704
pull
Entries 84
Mean 910.4
Std Dev 875.7
pull1D
Entries 84
Mean 0.01713
Std Dev 1.107

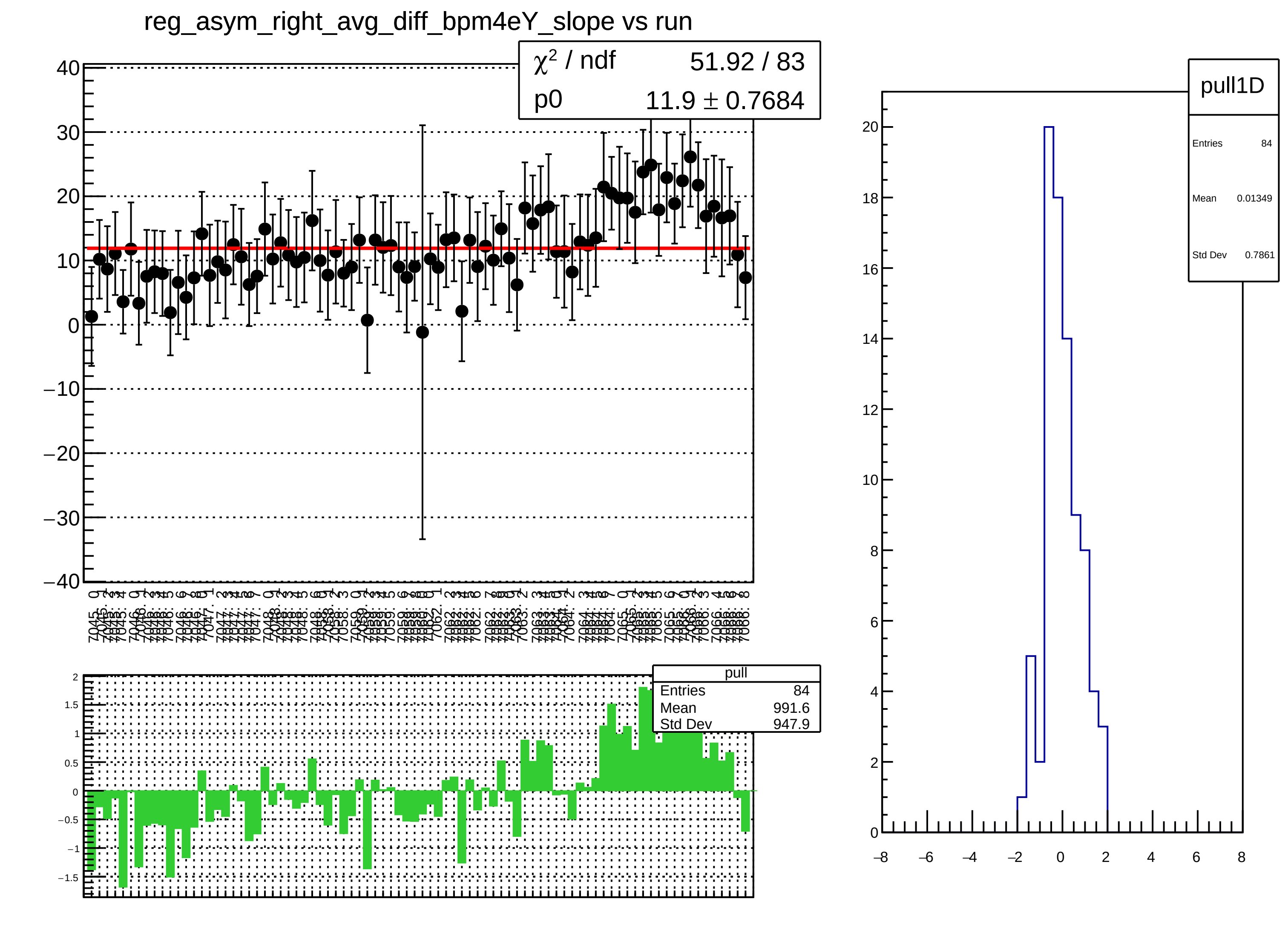

reg_asym_right_avg_diff_bpm1X_slope vs run
χ2 / ndf 103.4 / 83
p0 −29.81 ± 1.03
pull
Entries 84
Mean −292.8
Std Dev 337.2
pull1D
Entries 84
Mean −0.05174
Std Dev 1.108



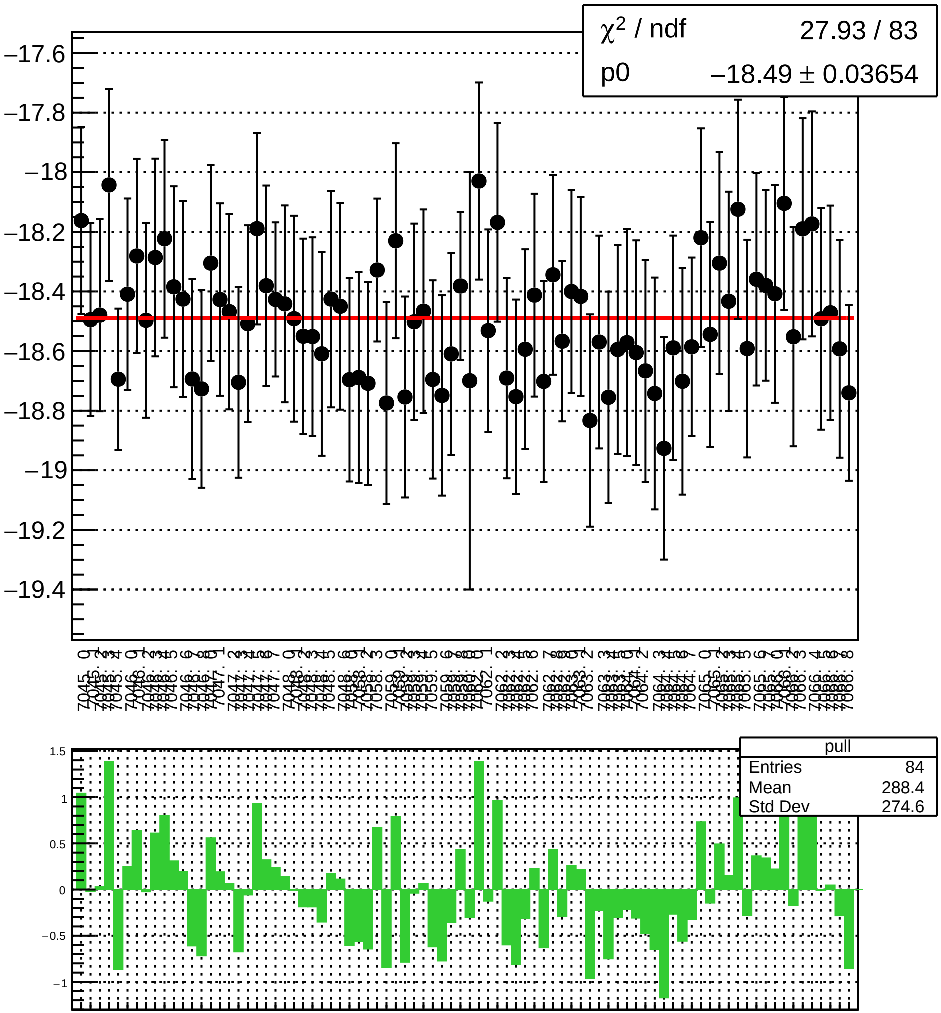
reg_asym_right_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 41.96 / 83
p0 −2.644 ± 0.7199
pull
Entries 84
Mean 1088
Std Dev 1044
pull1D
Entries 84
Mean −0.009326
Std Dev 0.7067

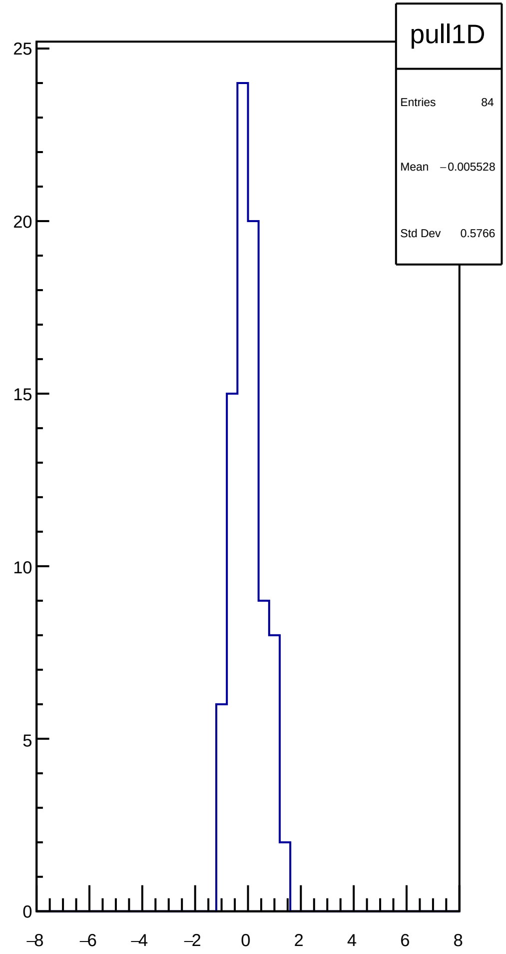


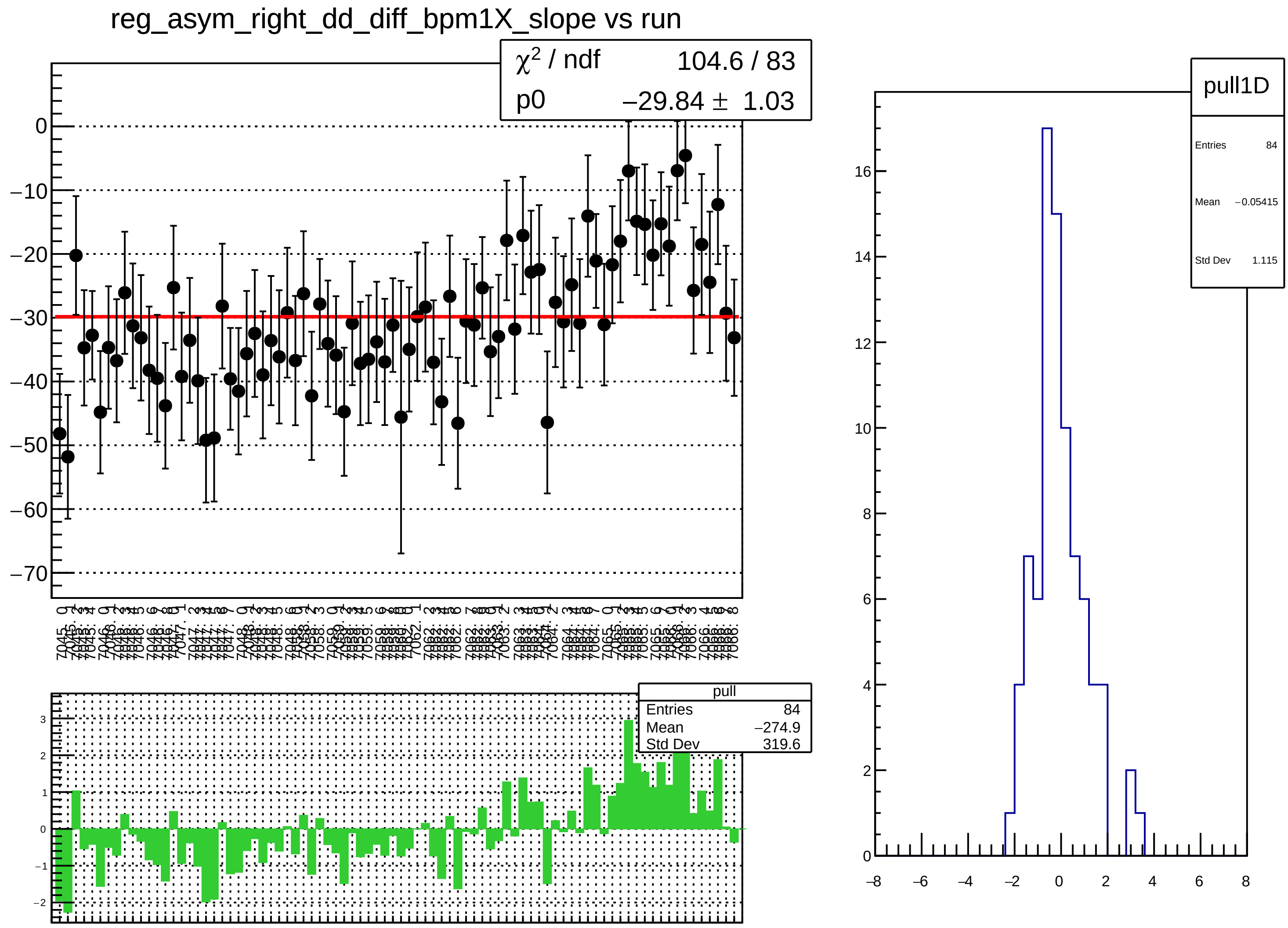
reg_asym_right_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 101.5 / 83
p0 58.04 ± 0.9828
pull
Entries 84
Mean −345.7
Std Dev 390.4
pull1D
Entries 84
Mean 0.04387
Std Dev 1.099


reg_asym_right_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 51.92 / 83
p0 11.9 ± 0.7684
40
30
20
10
0
−10
−20
−30
−40
pull
Entries 84
Mean 991.6
Std Dev 947.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.01349
Std Dev 0.7861
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

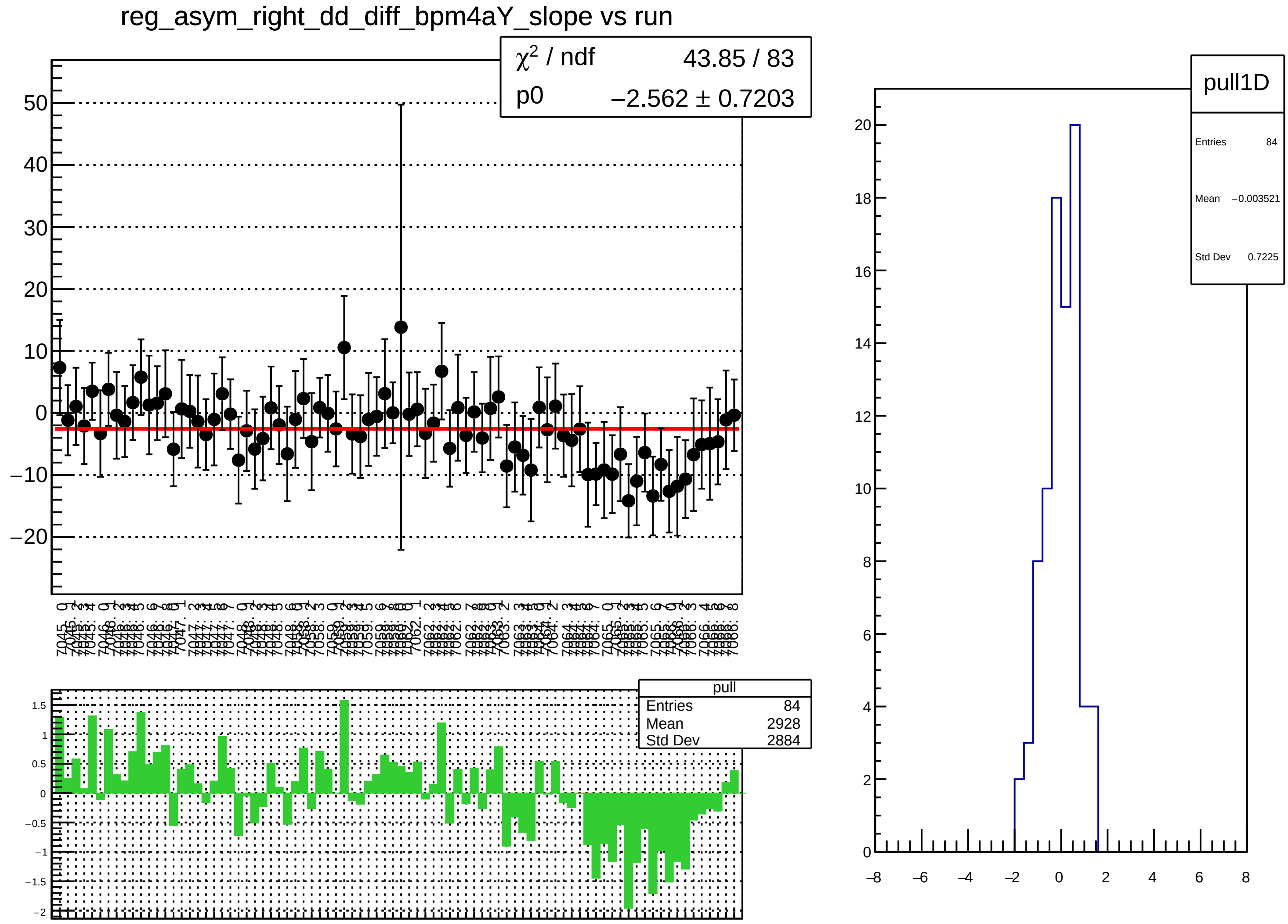
reg_asym_right_avg_diff_bpm12X_slope vs run



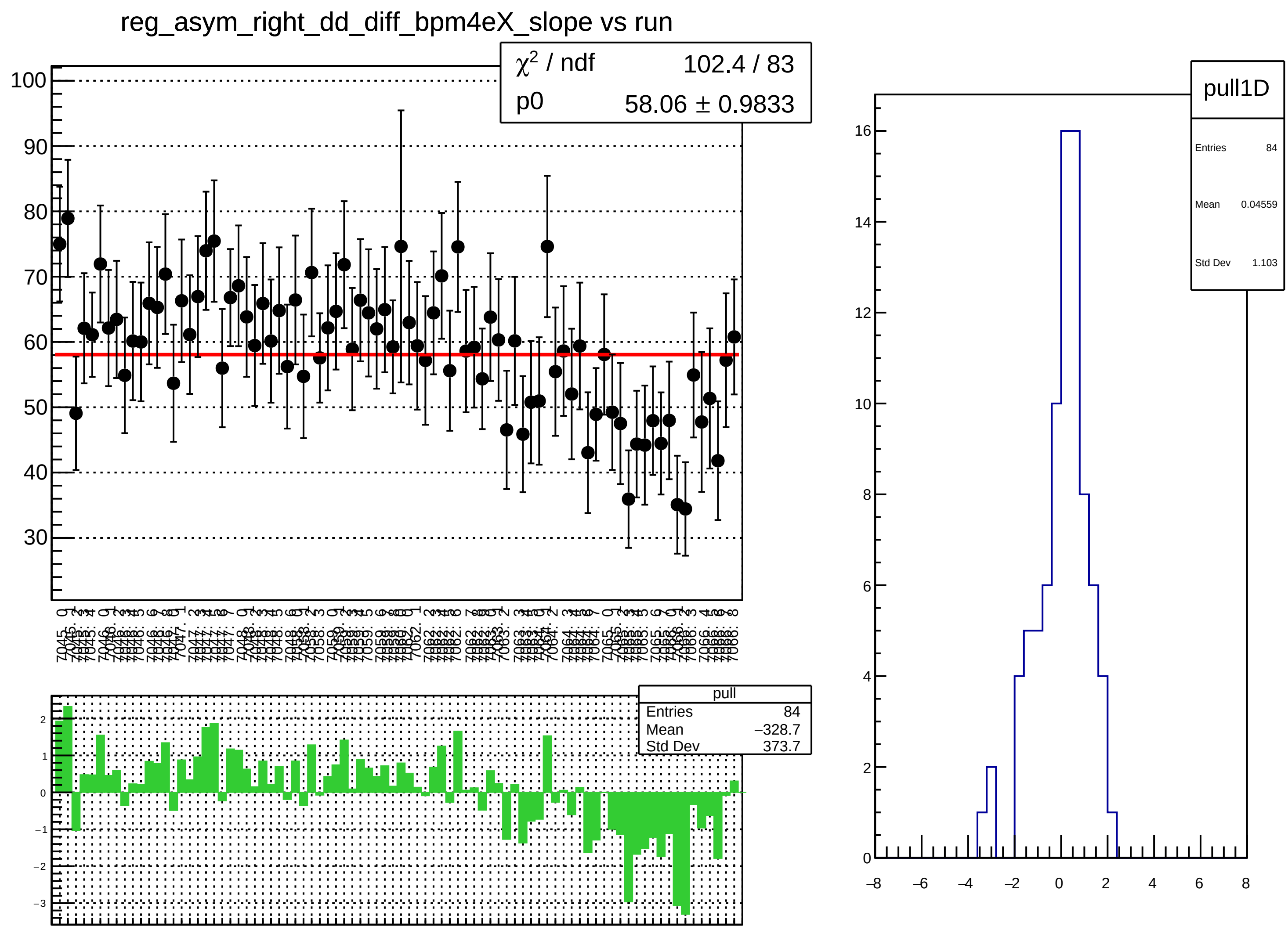





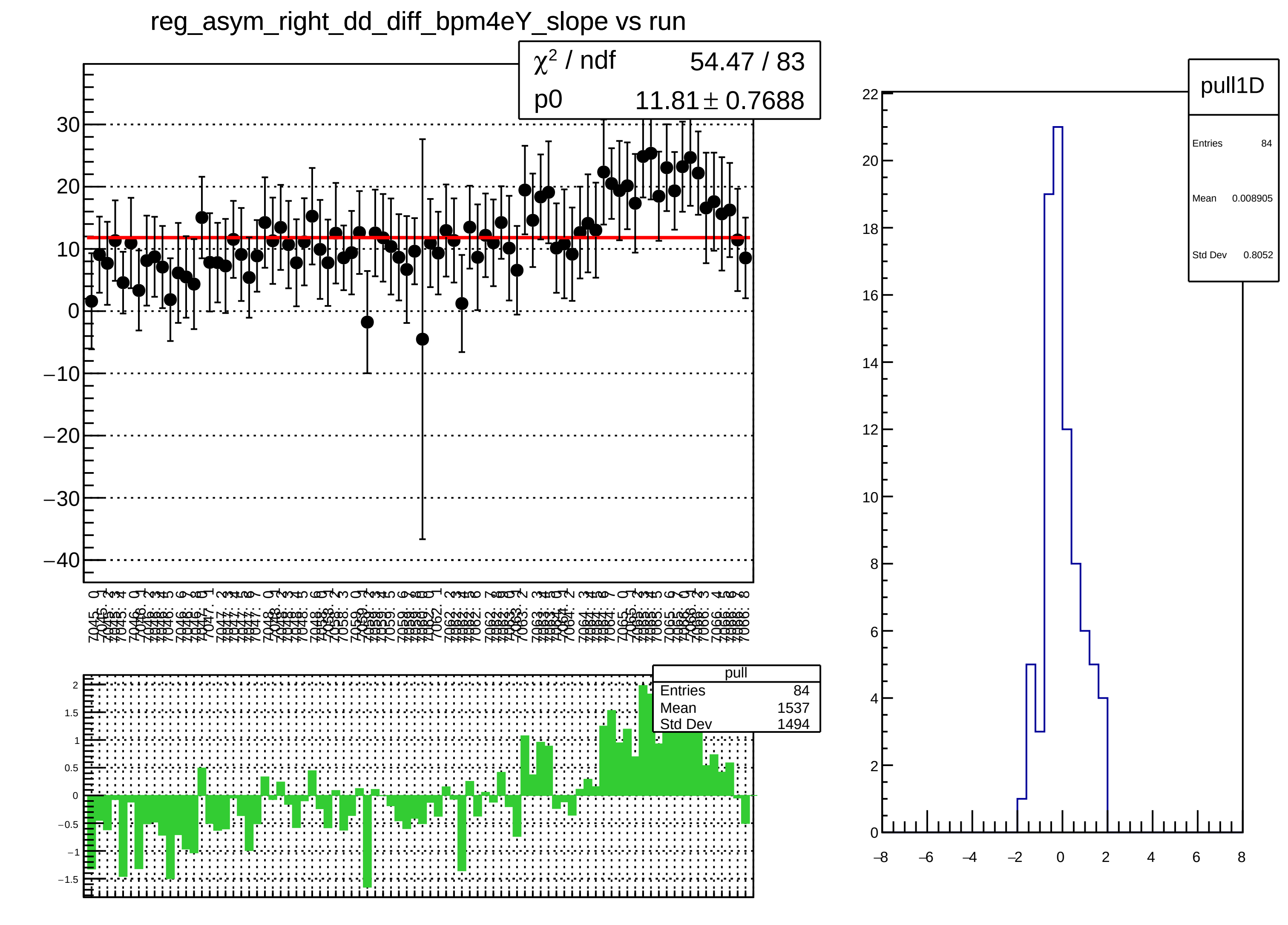
reg_asym_right_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 104.6 / 83
p0 −29.84 ± 1.03
pull
Entries 84
Mean −274.9
Std Dev 319.6
pull1D
Entries 84
Mean −0.05415
Std Dev 1.115



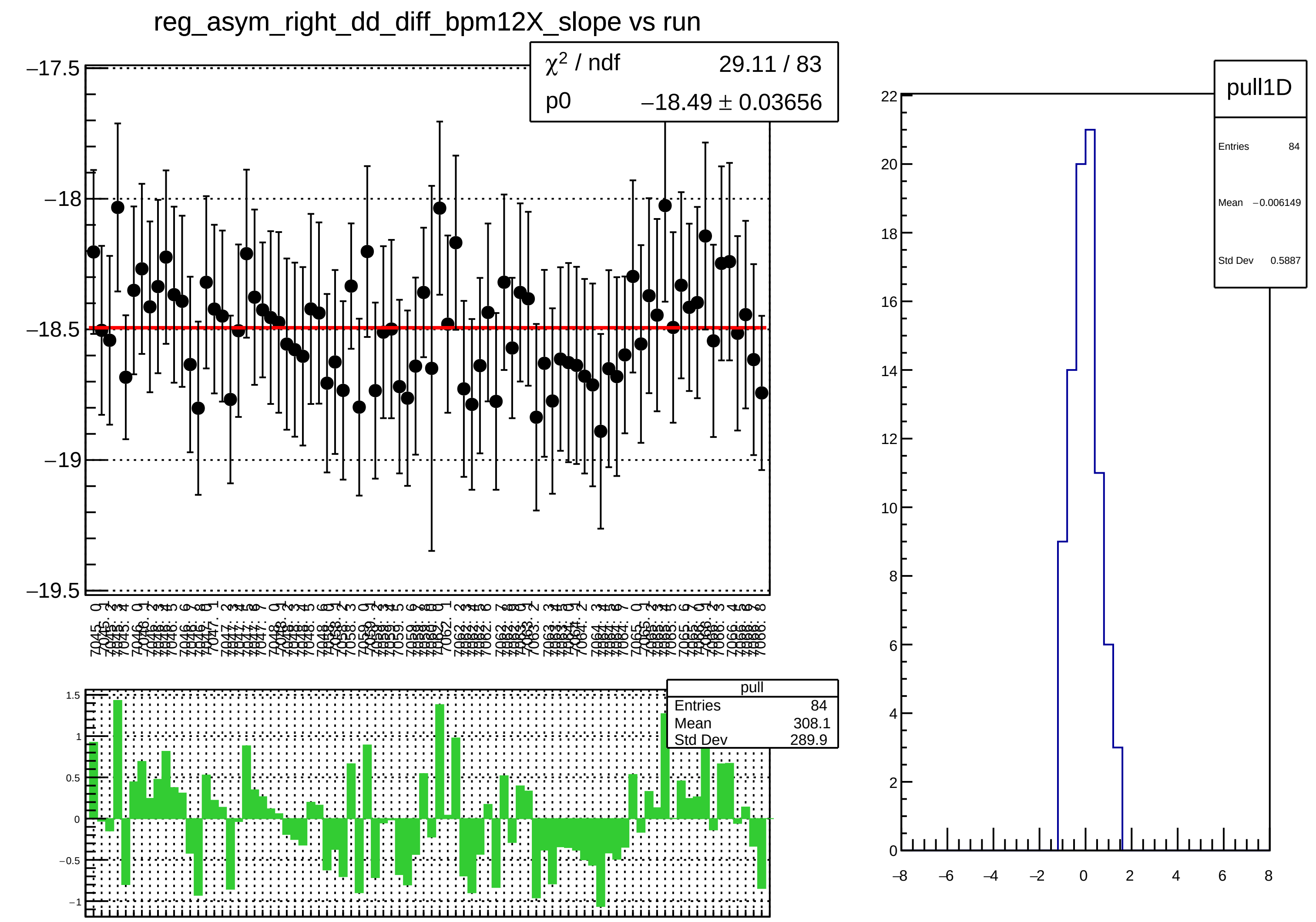
reg_asym_right_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 43.85 / 83
p0 −2.562 ± 0.7203
pull
Entries 84
Mean 2928
Std Dev 2884
pull1D
Entries 84
Mean −0.003521
Std Dev 0.7225



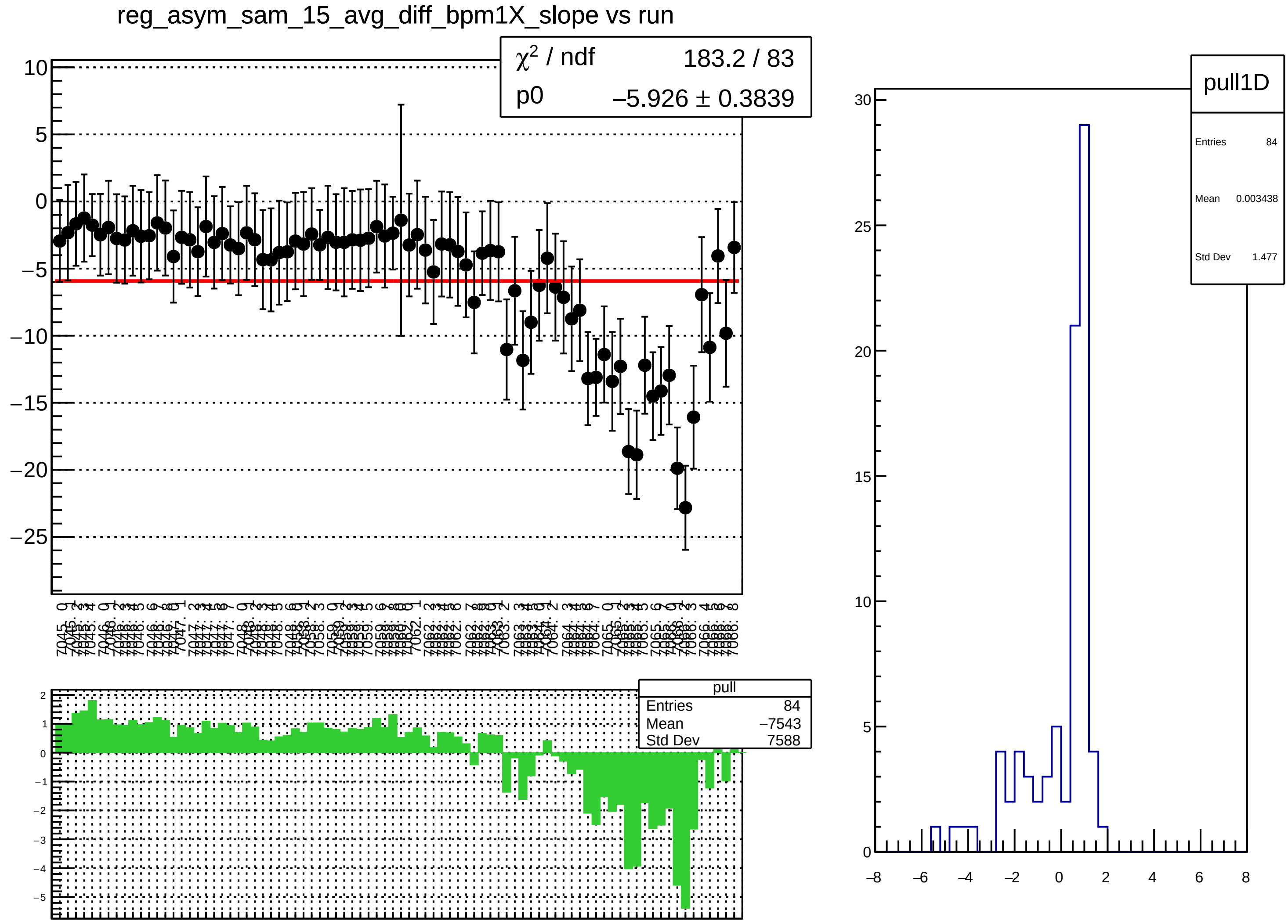
reg_asym_right_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 102.4 / 83
p0 58.06 ± 0.9833
pull
Entries 84
Mean −328.7
Std Dev 373.7
pull1D
Entries 84
Mean 0.04559
Std Dev 1.103



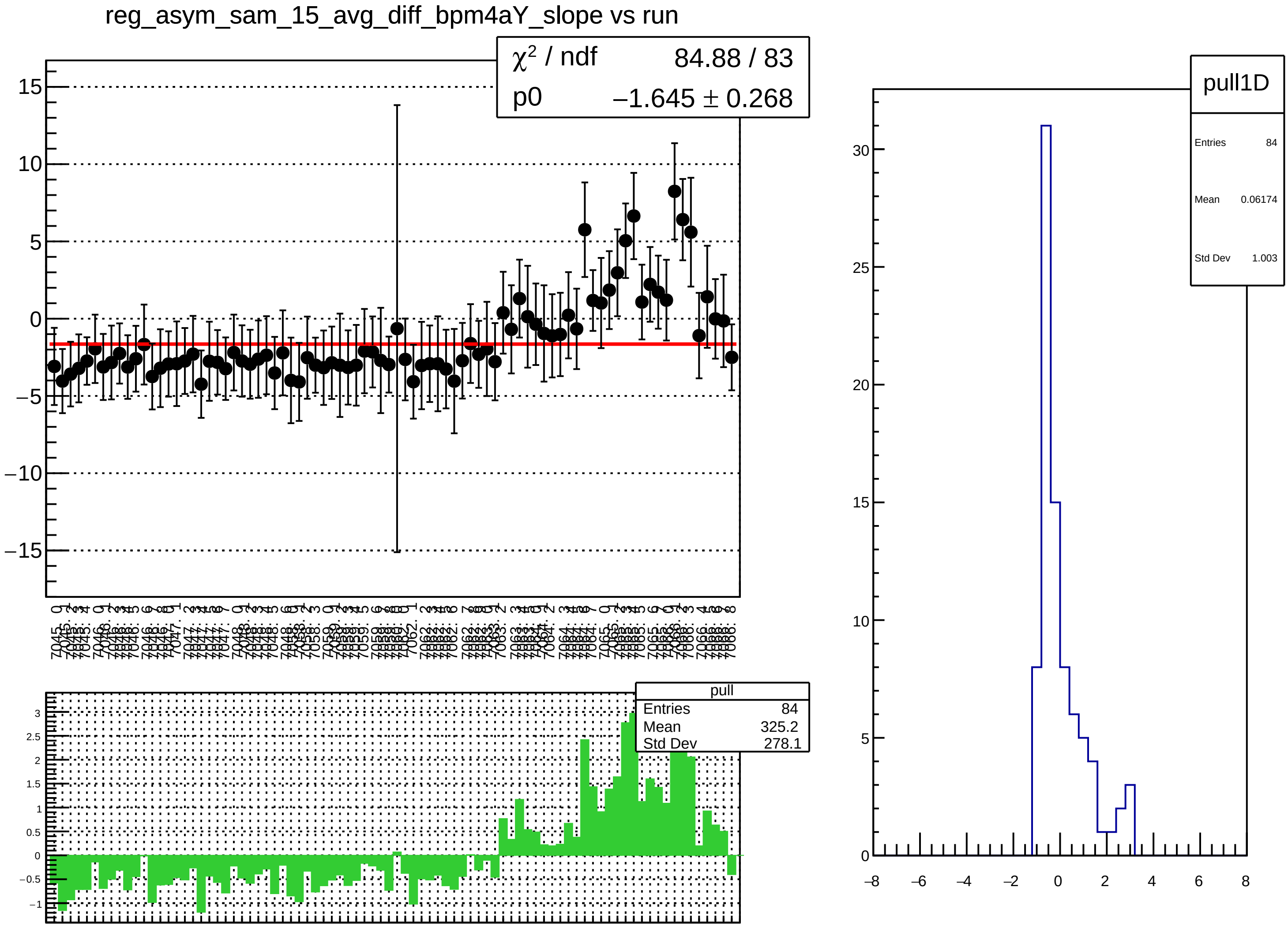
reg_asym_right_dd_diff_bpm4eY_slope vs run
χ2 / ndf 54.47 / 83
p0 11.81 ± 0.7688
pull
Entries 84
Mean 1537
Std Dev 1494
pull1D
Entries 84
Mean 0.008905
Std Dev 0.8052



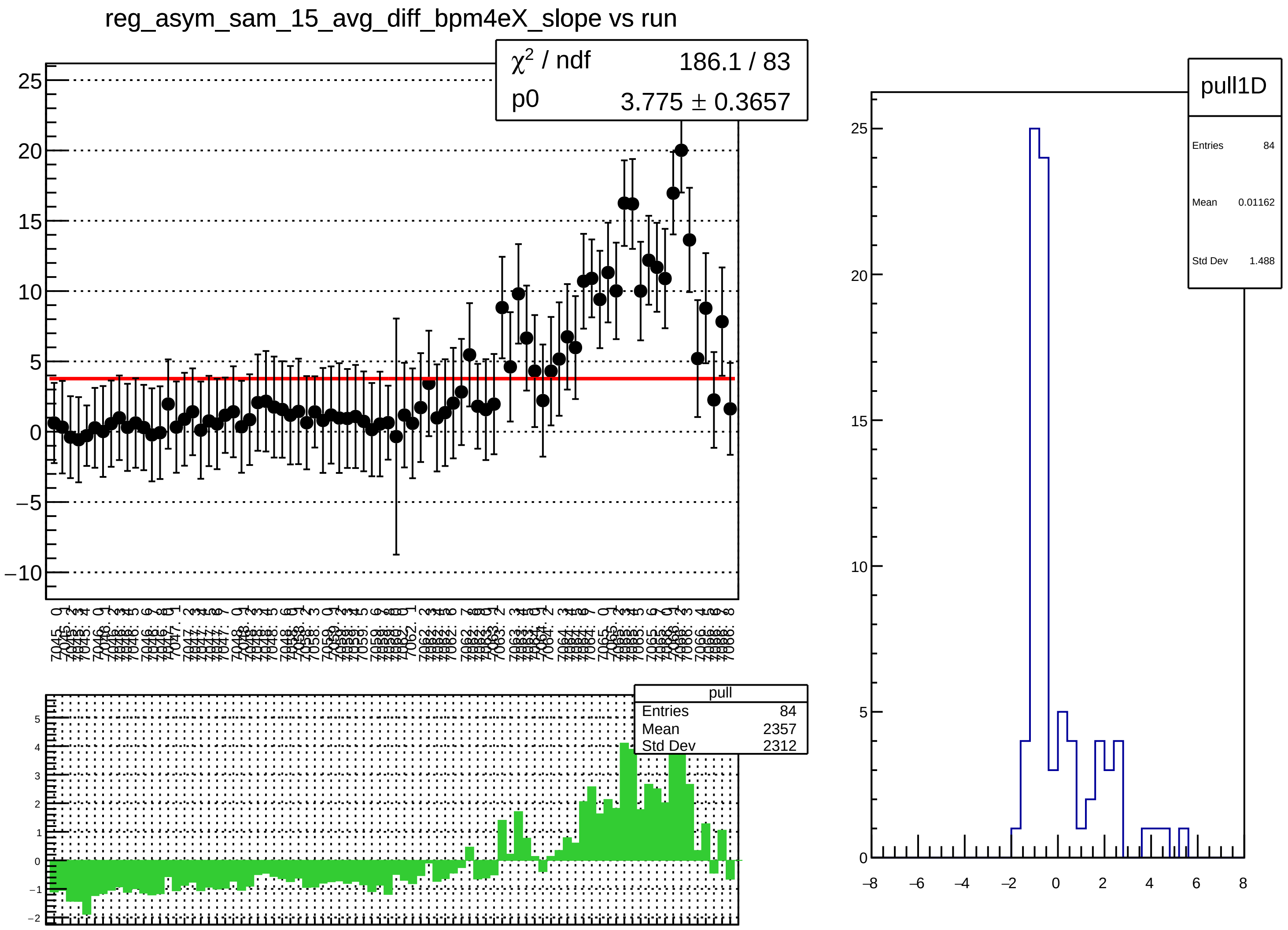
reg_asym_right_dd_diff_bpm12X_slope vs run
χ2 / ndf 29.11 / 83
p0 −18.49 ± 0.03656
−17.5
−18
−18.5
−19
−19.5
pull
Entries 84
Mean 308.1
Std Dev 289.9
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean −0.006149
Std Dev 0.5887
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



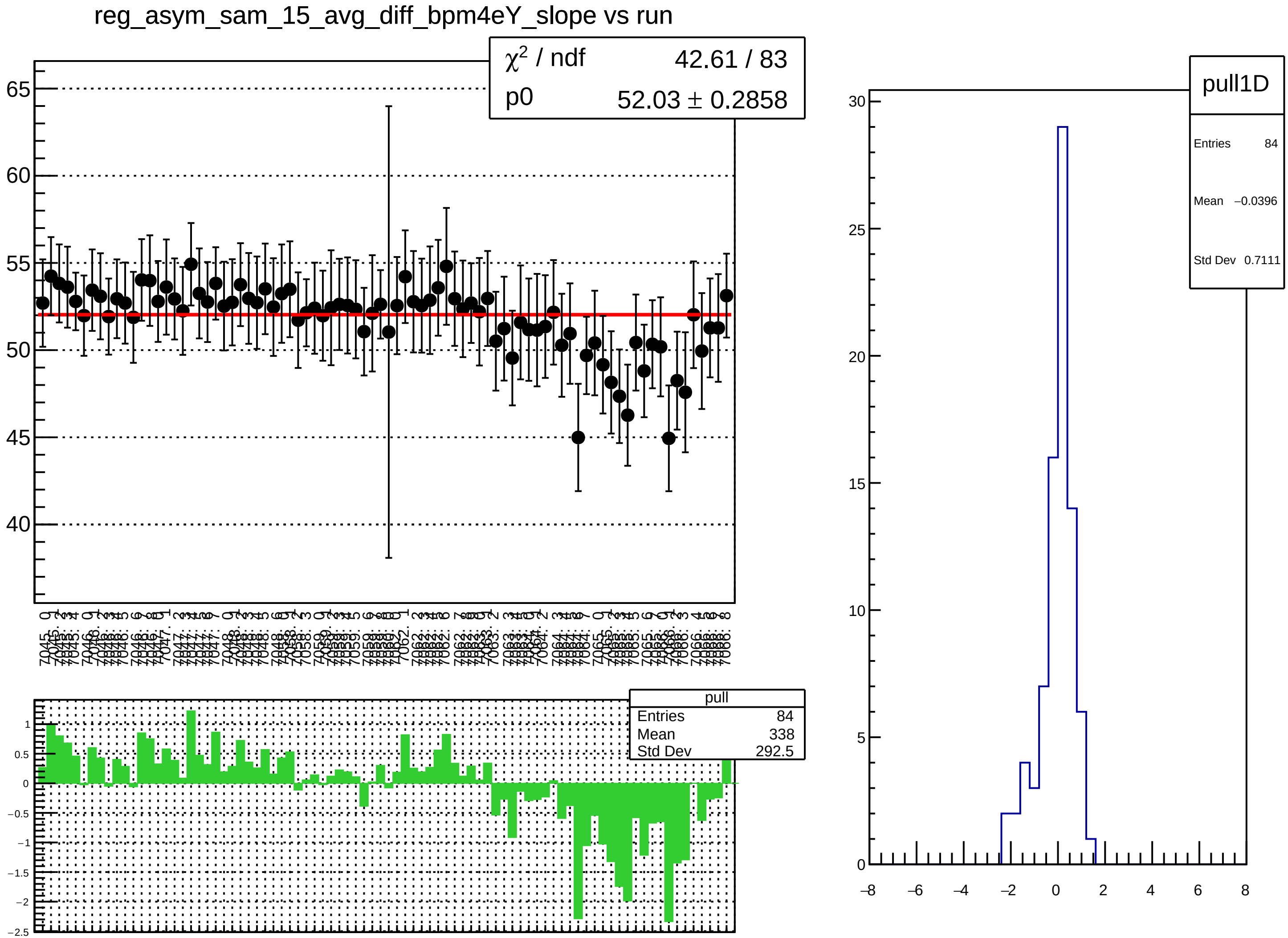
reg_asym_sam_15_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 183.2 / 83
p0 −5.926 ± 0.3839
pull
Entries 84
Mean −7543
Std Dev 7588
pull1D
Entries 84
Mean 0.003438
Std Dev 1.477



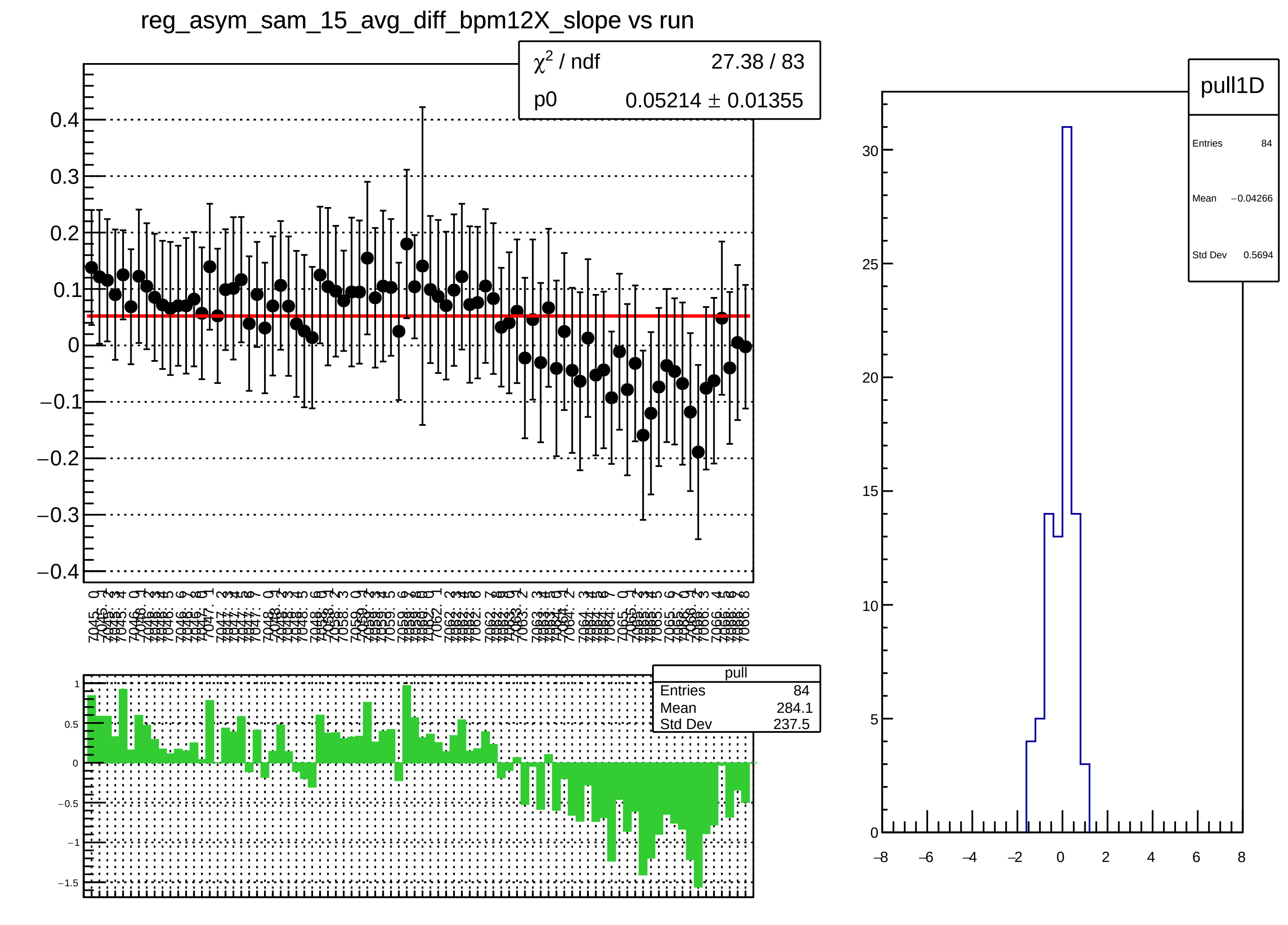
reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 84.88 / 83
p0 −1.645 ± 0.268
pull
Entries 84
Mean 325.2
Std Dev 278.1
pull1D
Entries 84
Mean 0.06174
Std Dev 1.003



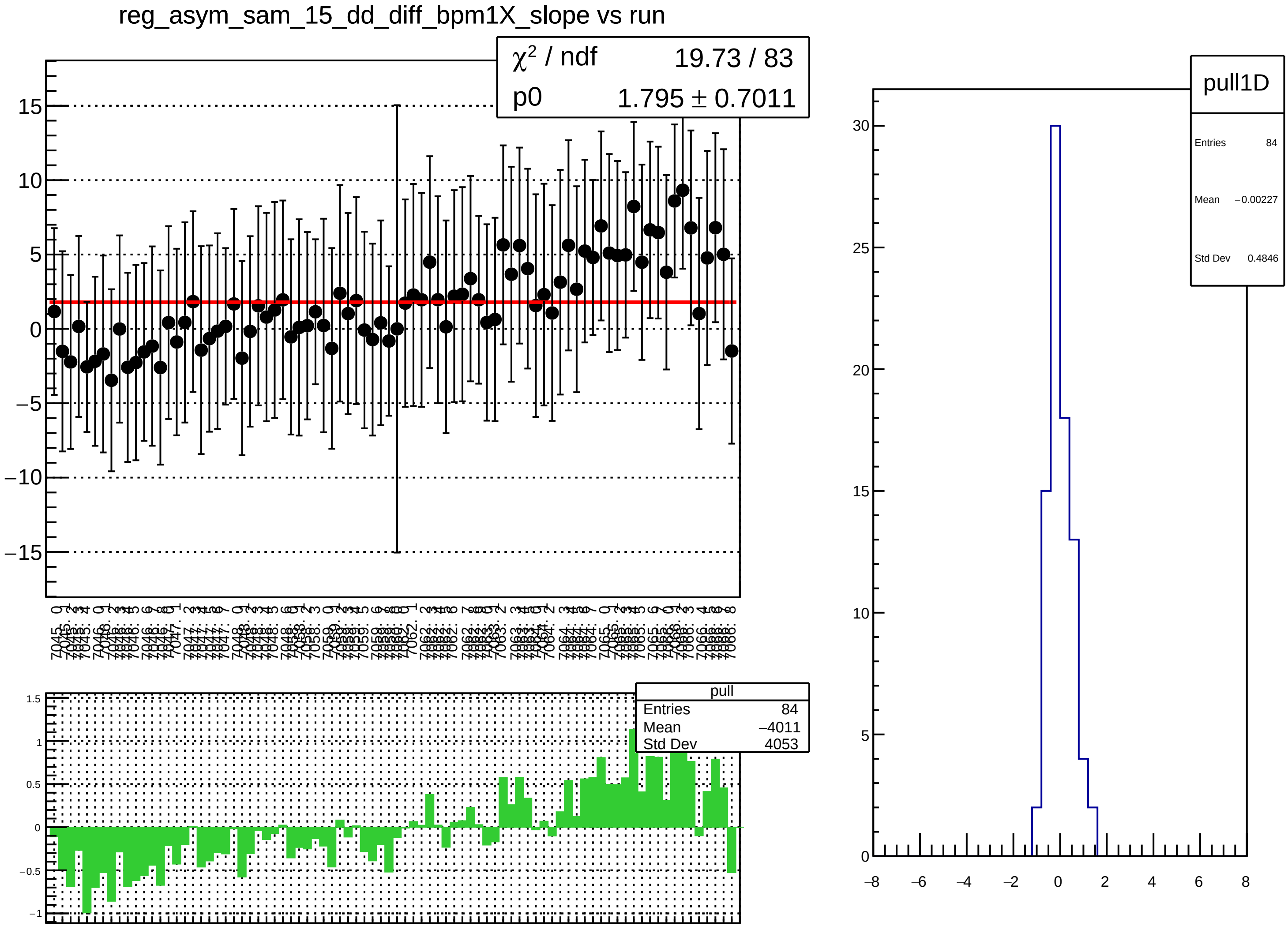
reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 186.1 / 83
p0 3.775 ± 0.3657
pull
Entries 84
Mean 2357
Std Dev 2312
pull1D
Entries 84
Mean 0.01162
Std Dev 1.488



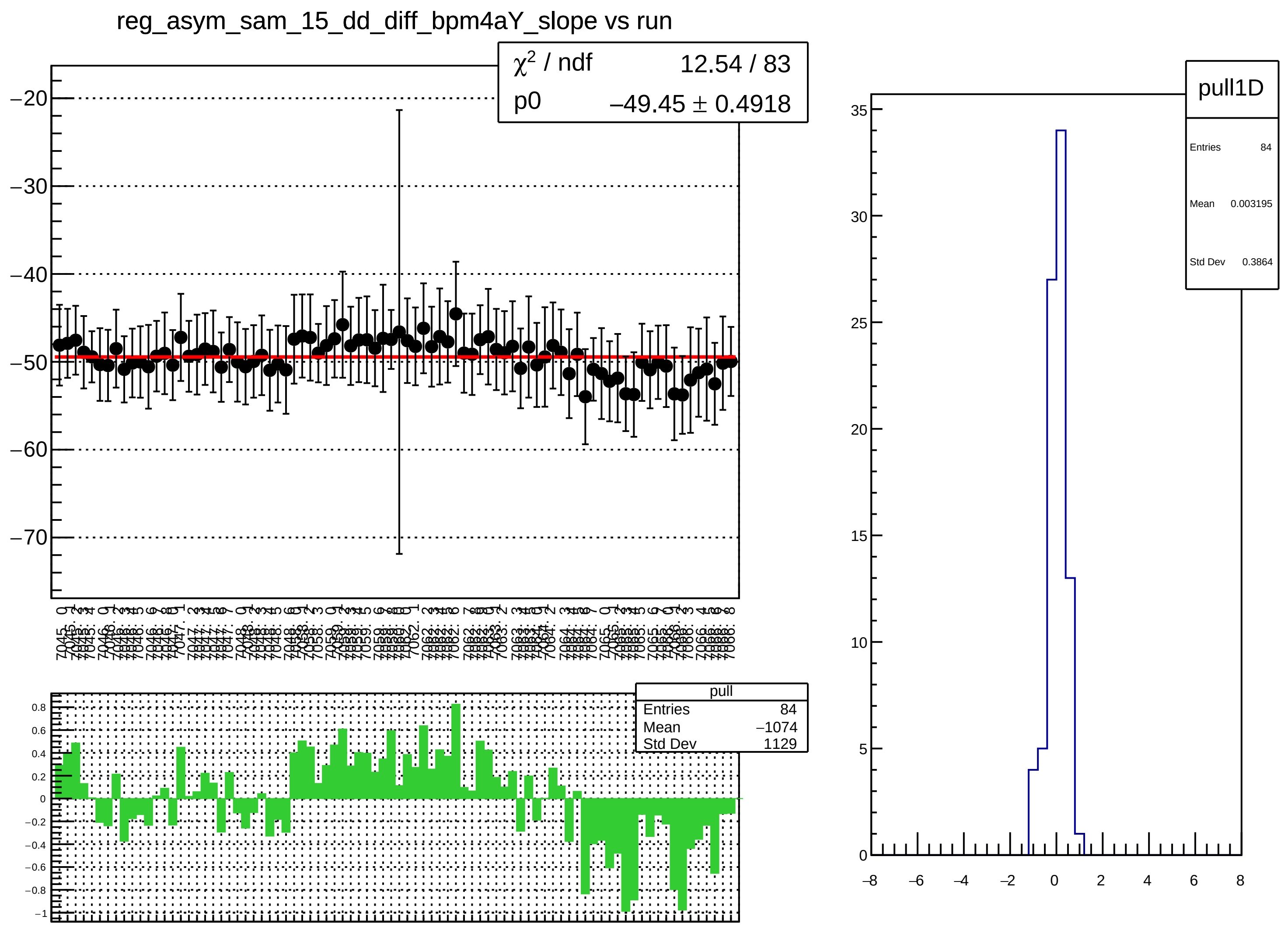
reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.61 / 83
p0 52.03 ± 0.2858
pull
Entries 84
Mean 338
Std Dev 292.5
pull1D
Entries 84
Mean −0.0396
Std Dev 0.7111



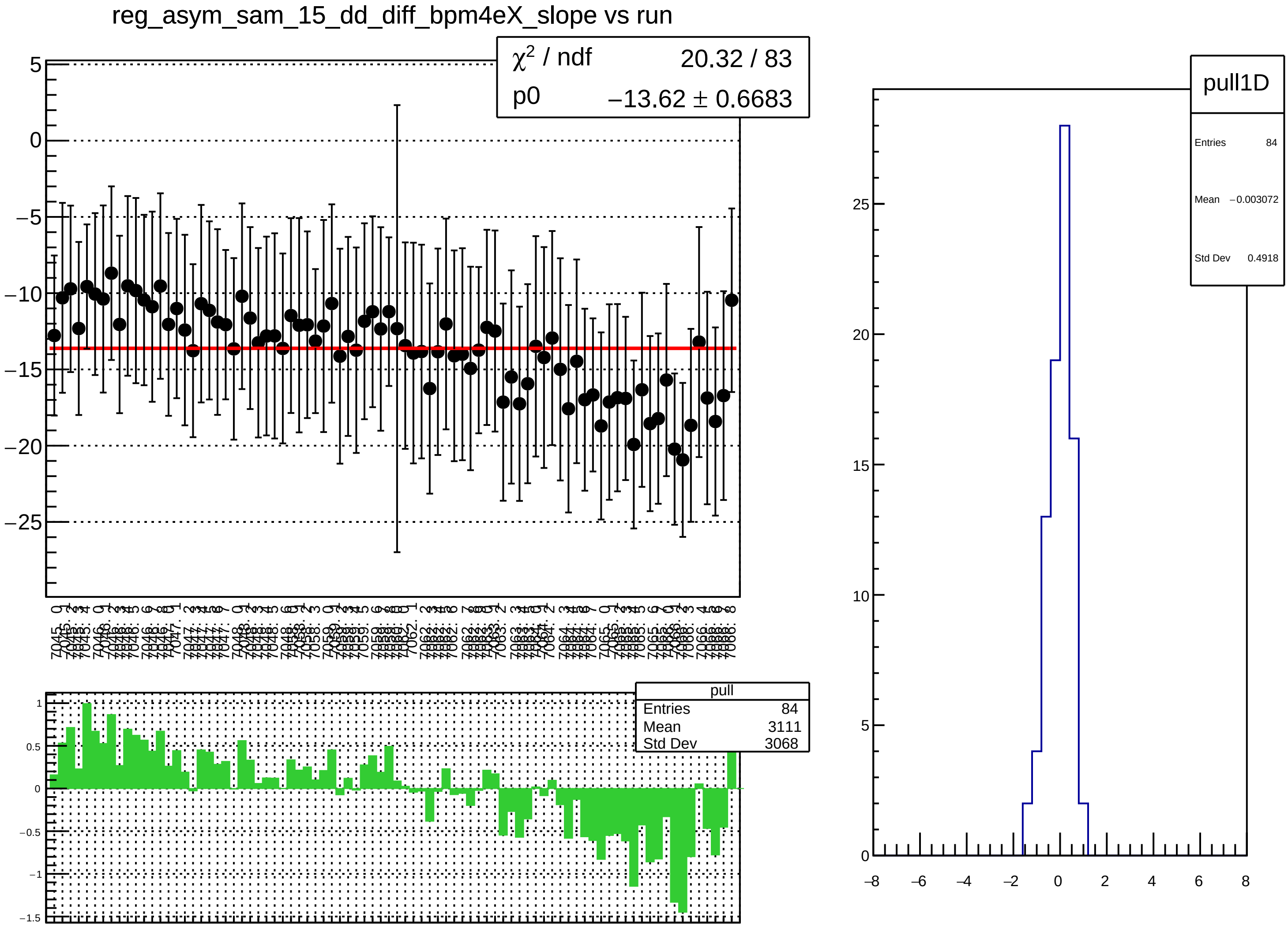
reg_asym_sam_15_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 27.38 / 83
p0 0.05214 ± 0.01355
pull
Entries 84
Mean 284.1
Std Dev 237.5
pull1D
Entries 84
Mean −0.04266
Std Dev 0.5694

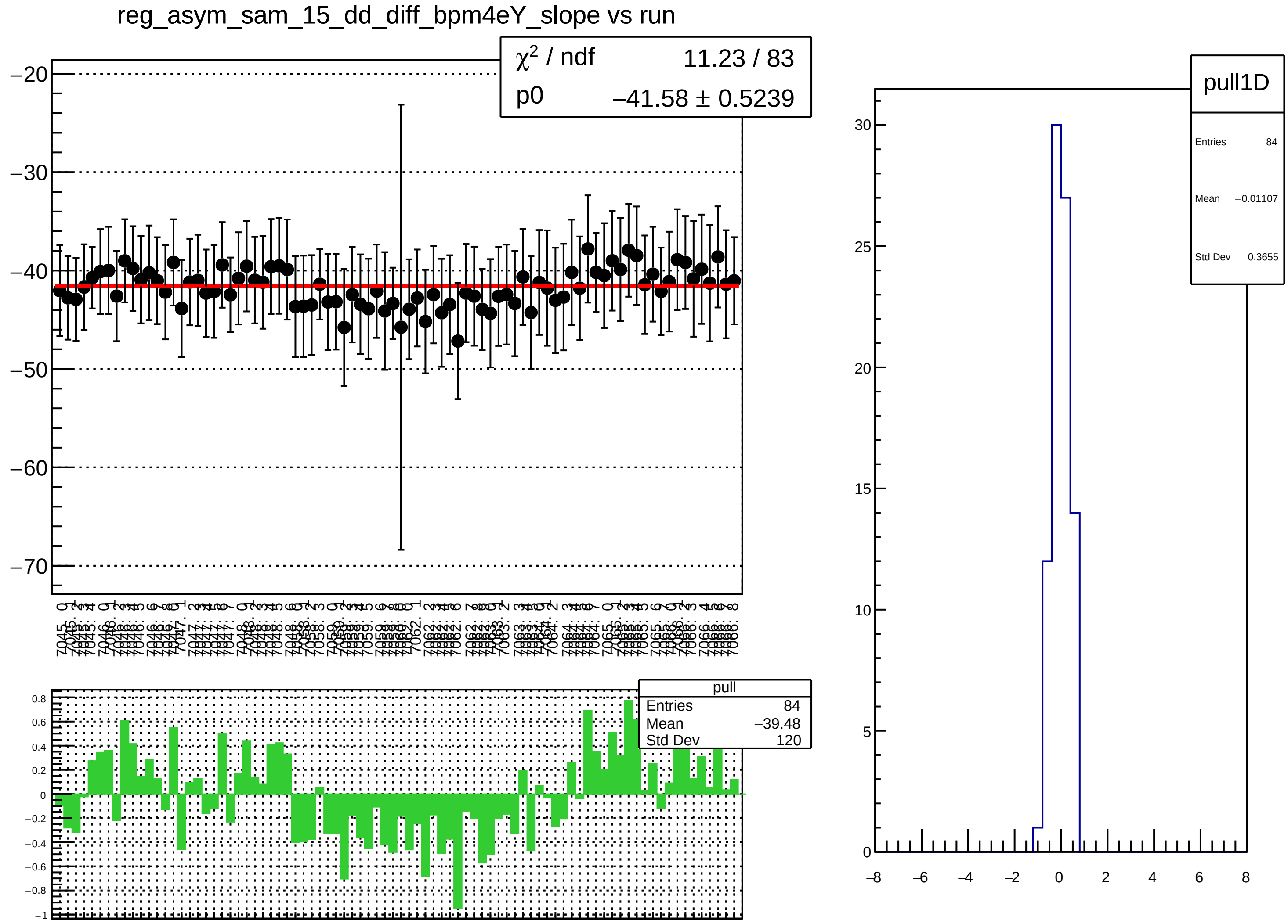


reg_asym_sam_15_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 19.73 / 83
p0 1.795 ± 0.7011
pull
Entries 84
Mean −4011
Std Dev 4053
pull1D
Entries 84
Mean −0.00227
Std Dev 0.4846

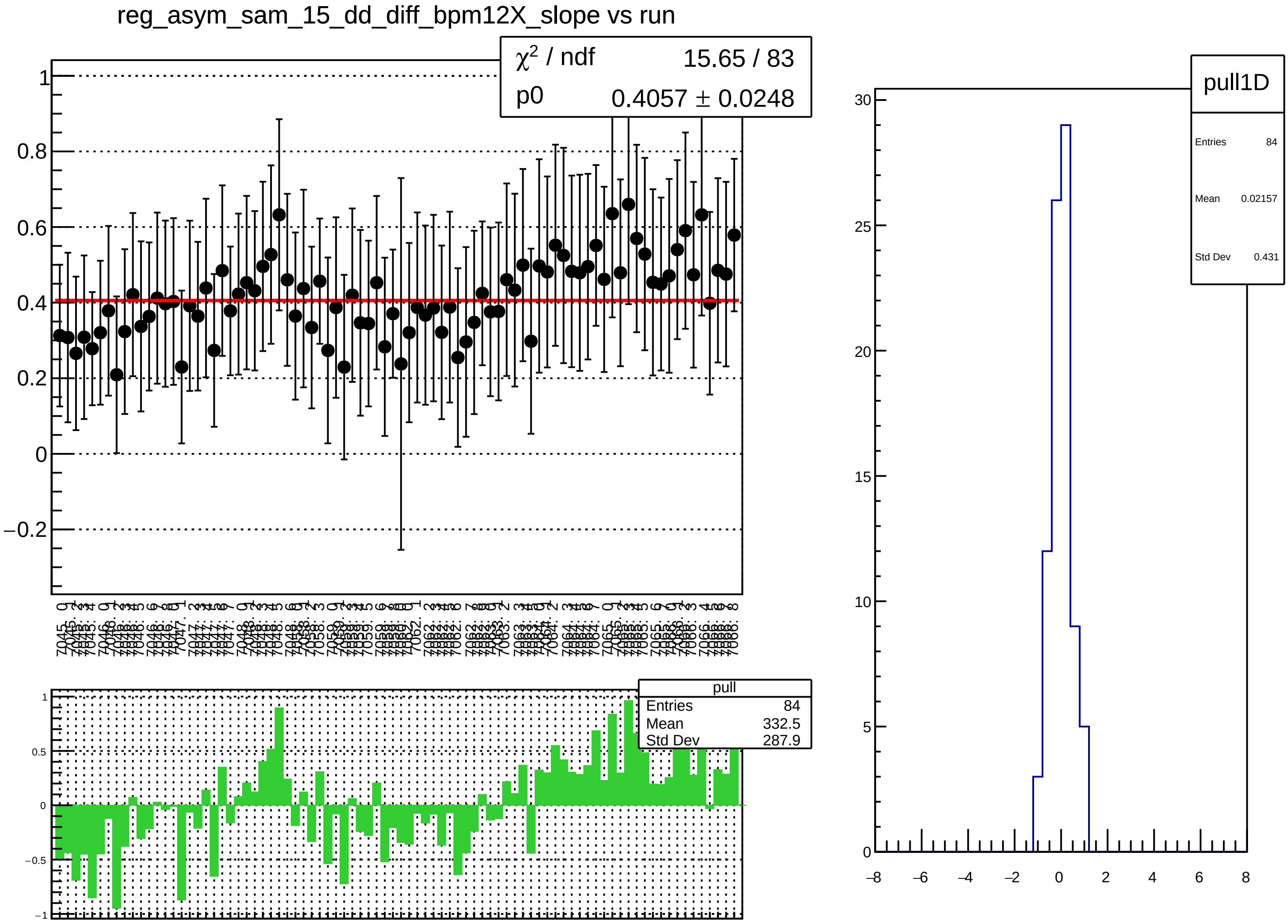


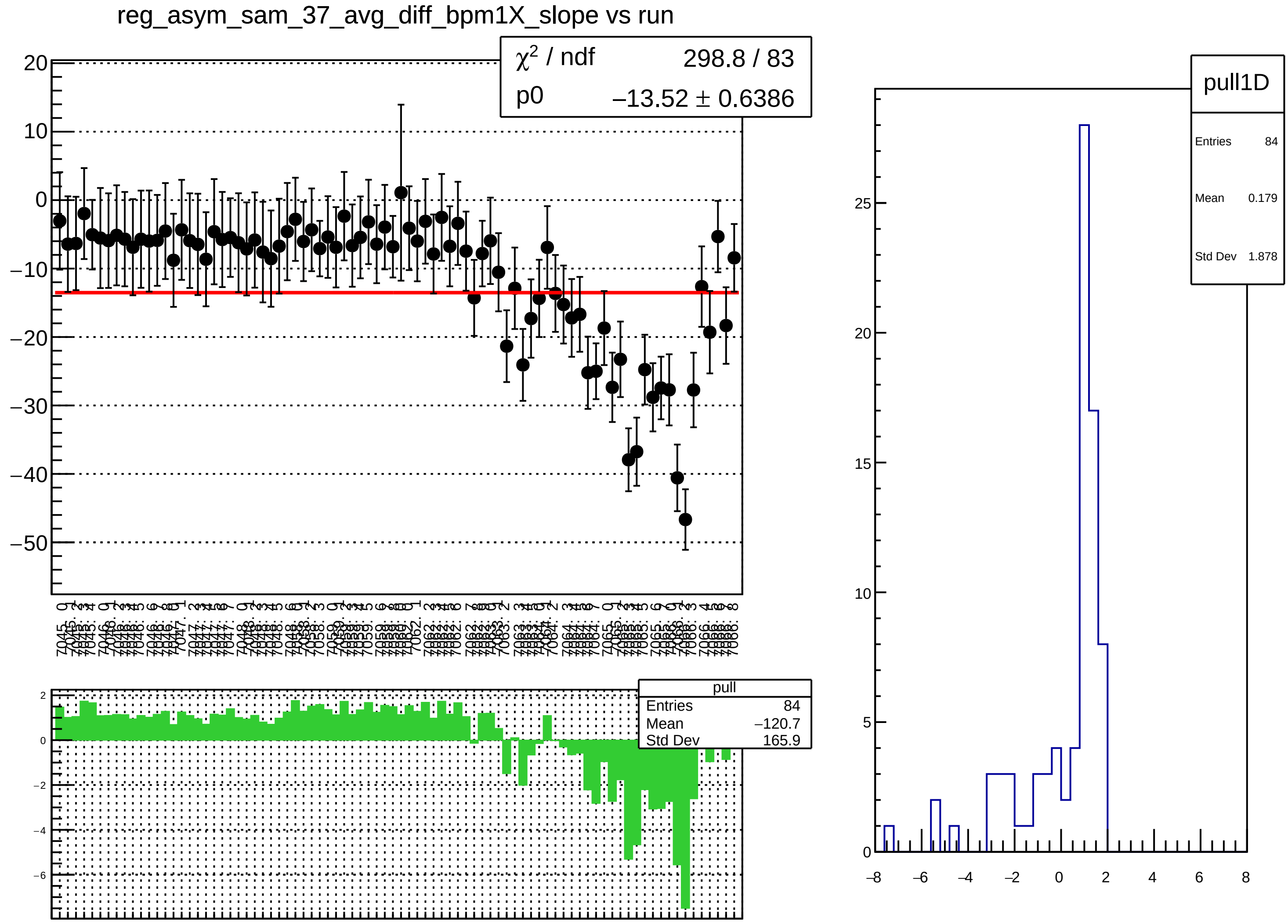
reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ2 / ndf 12.54 / 83
p0 −49.45 ± 0.4918
pull
Entries 84
Mean −1074
Std Dev 1129
pull1D
Entries 84
Mean 0.003195
Std Dev 0.3864

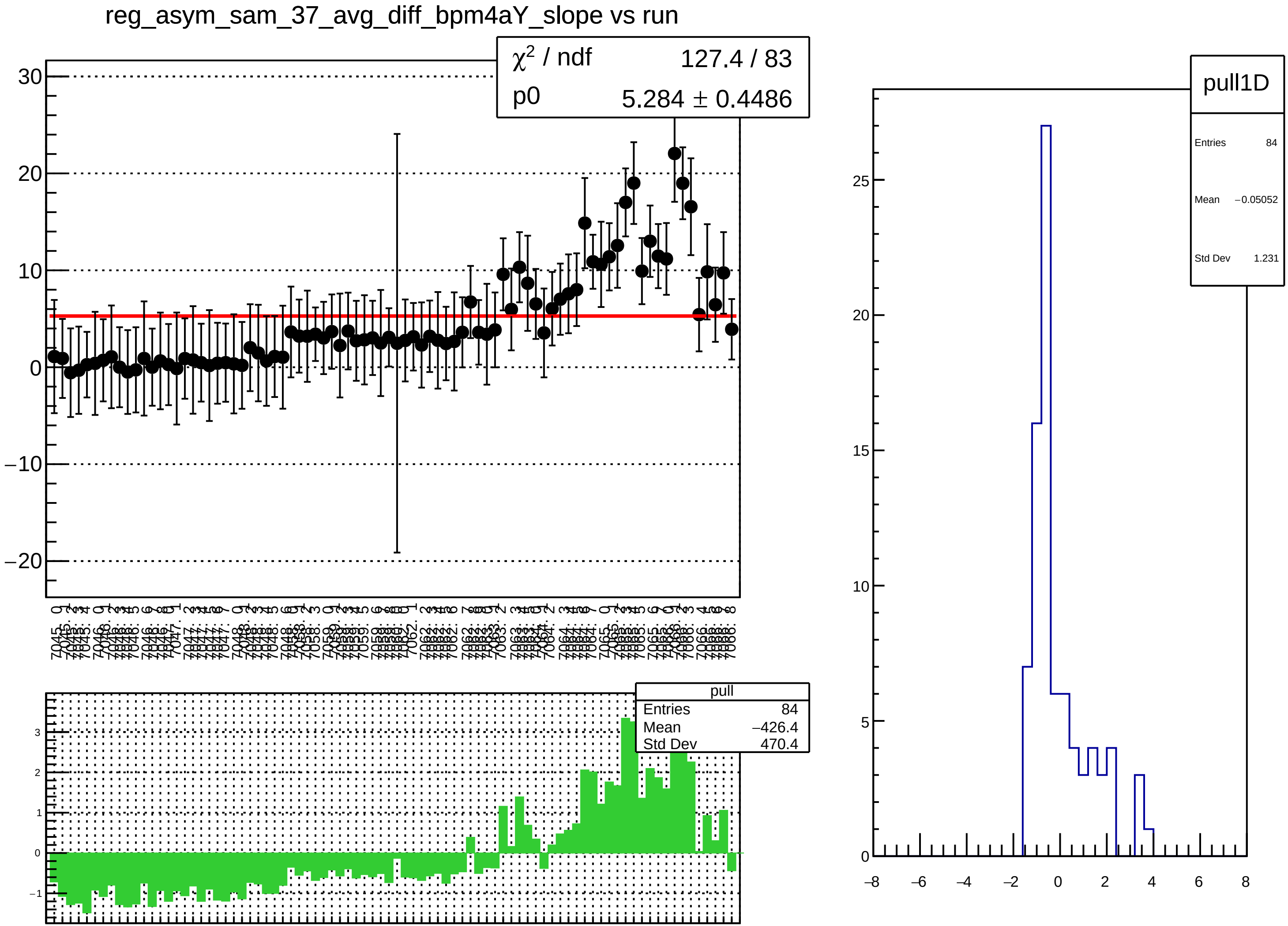

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 20.32 / 83
p0 −13.62 ± 0.6683
pull
Entries 84
Mean 3111
Std Dev 3068
pull1D
Entries 84
Mean −0.003072
Std Dev 0.4918



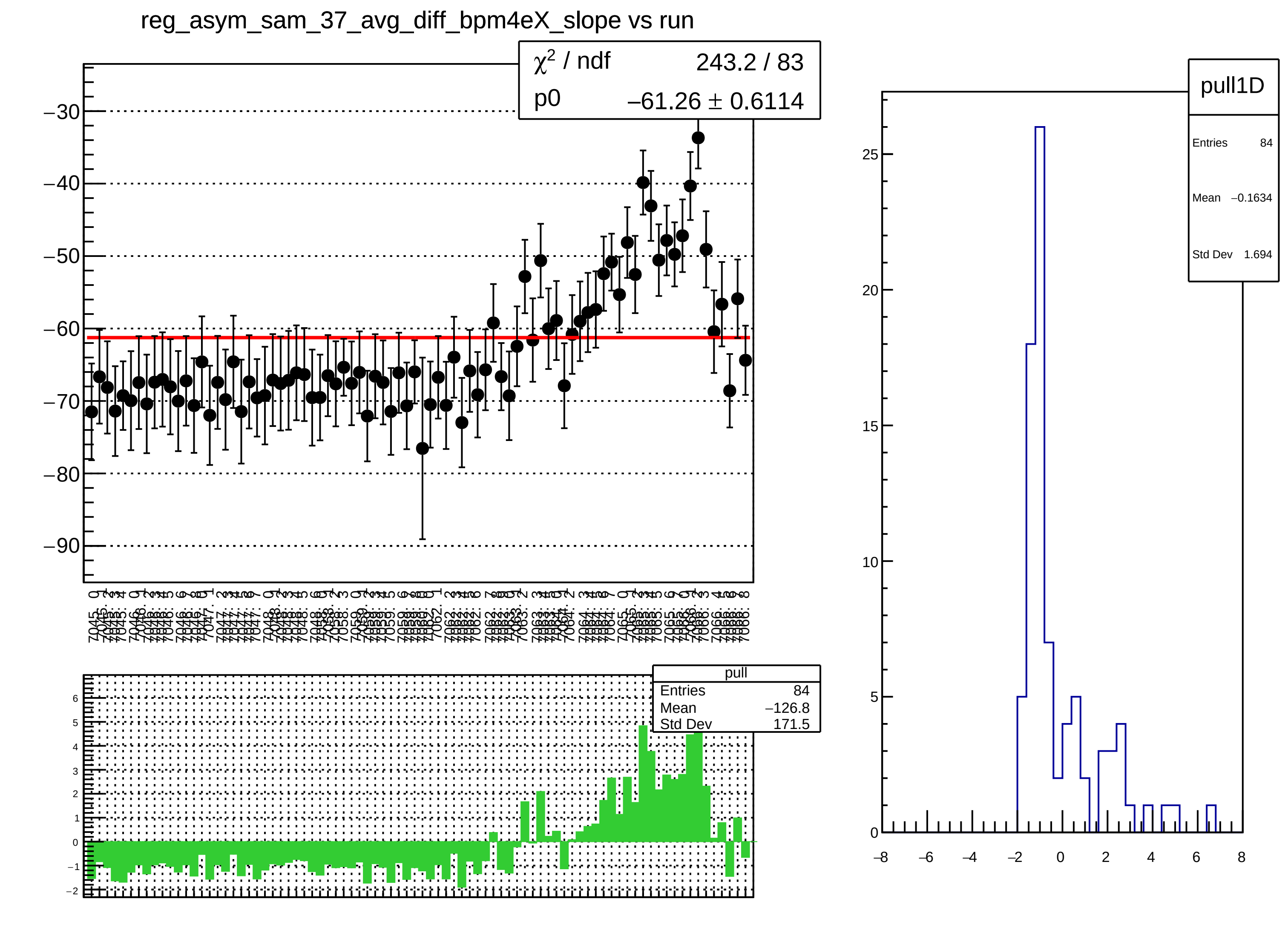
reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 11.23 / 83
p0 −41.58 ± 0.5239
pull
Entries 84
Mean −39.48
Std Dev 120
pull1D
Entries 84
Mean −0.01107
Std Dev 0.3655


reg_asym_sam_15_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 15.65 / 83
p0 0.4057 ± 0.0248
pull
Entries 84
Mean 332.5
Std Dev 287.9
pull1D
Entries 84
Mean 0.02157
Std Dev 0.431

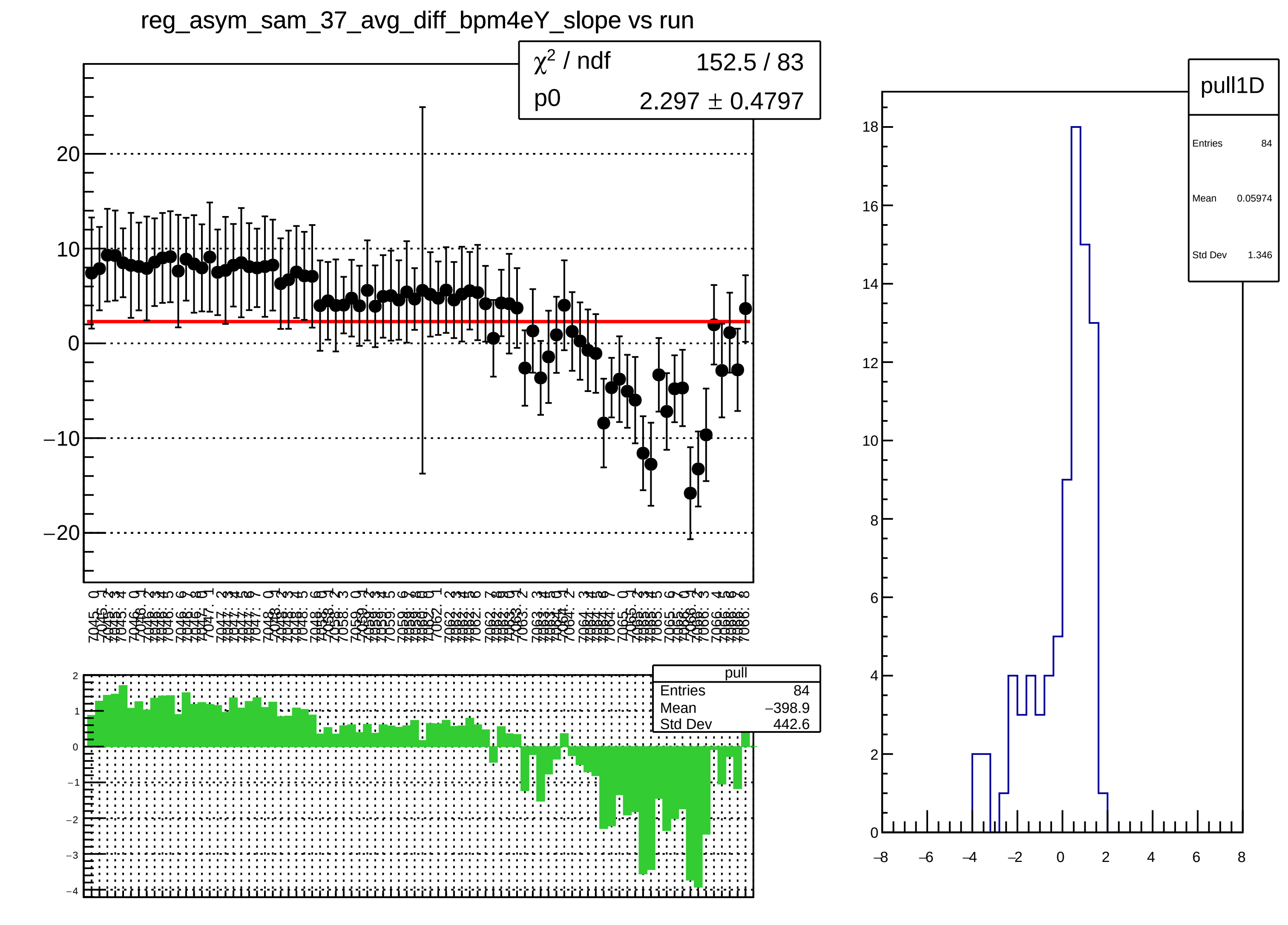

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 298.8 / 83
p0 −13.52 ± 0.6386
pull
Entries 84
Mean −120.7
Std Dev 165.9
pull1D
Entries 84
Mean 0.179
Std Dev 1.878



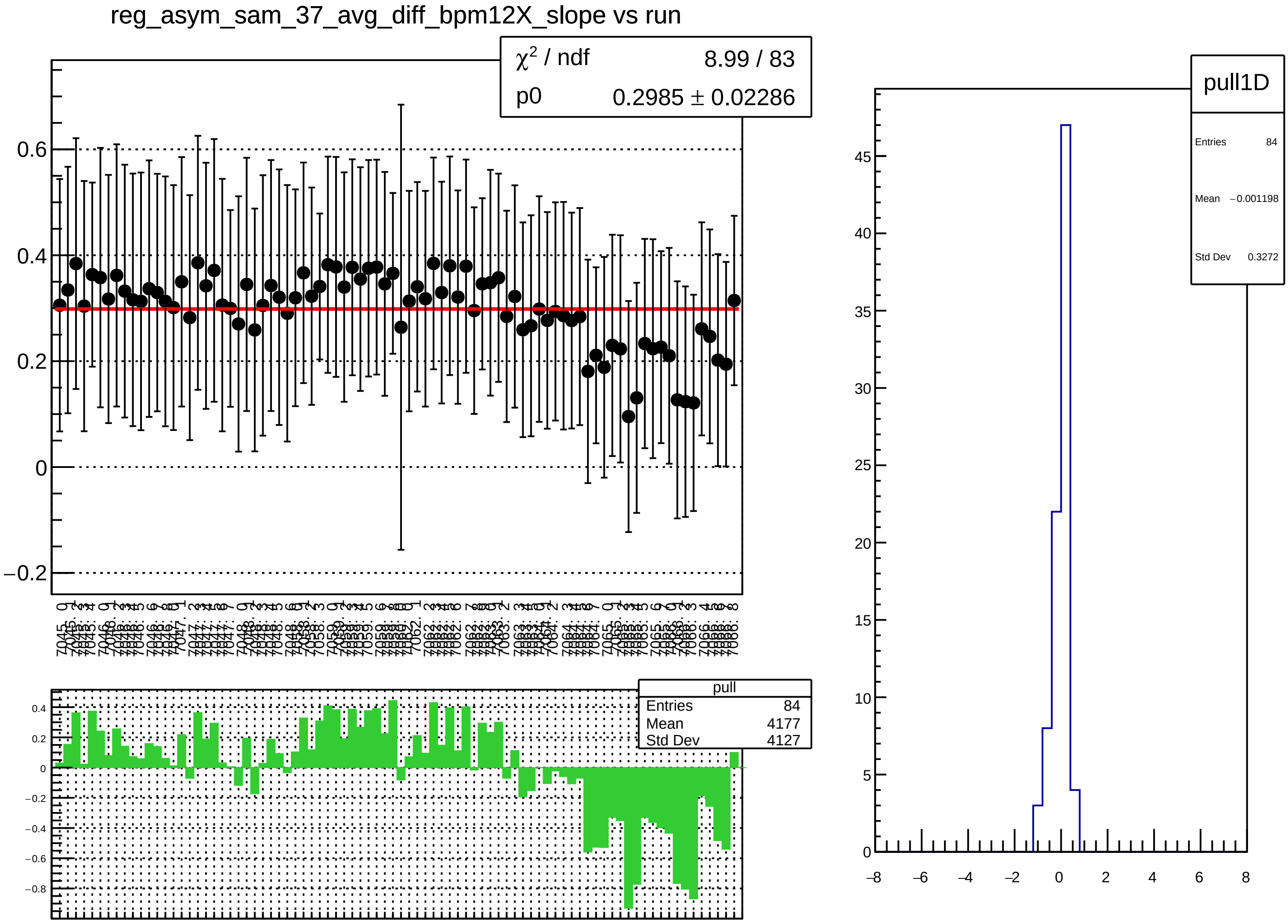
reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 127.4 / 83
p0 5.284 ± 0.4486
pull
Entries 84
Mean −426.4
Std Dev 470.4
pull1D
Entries 84
Mean −0.05052
Std Dev 1.231

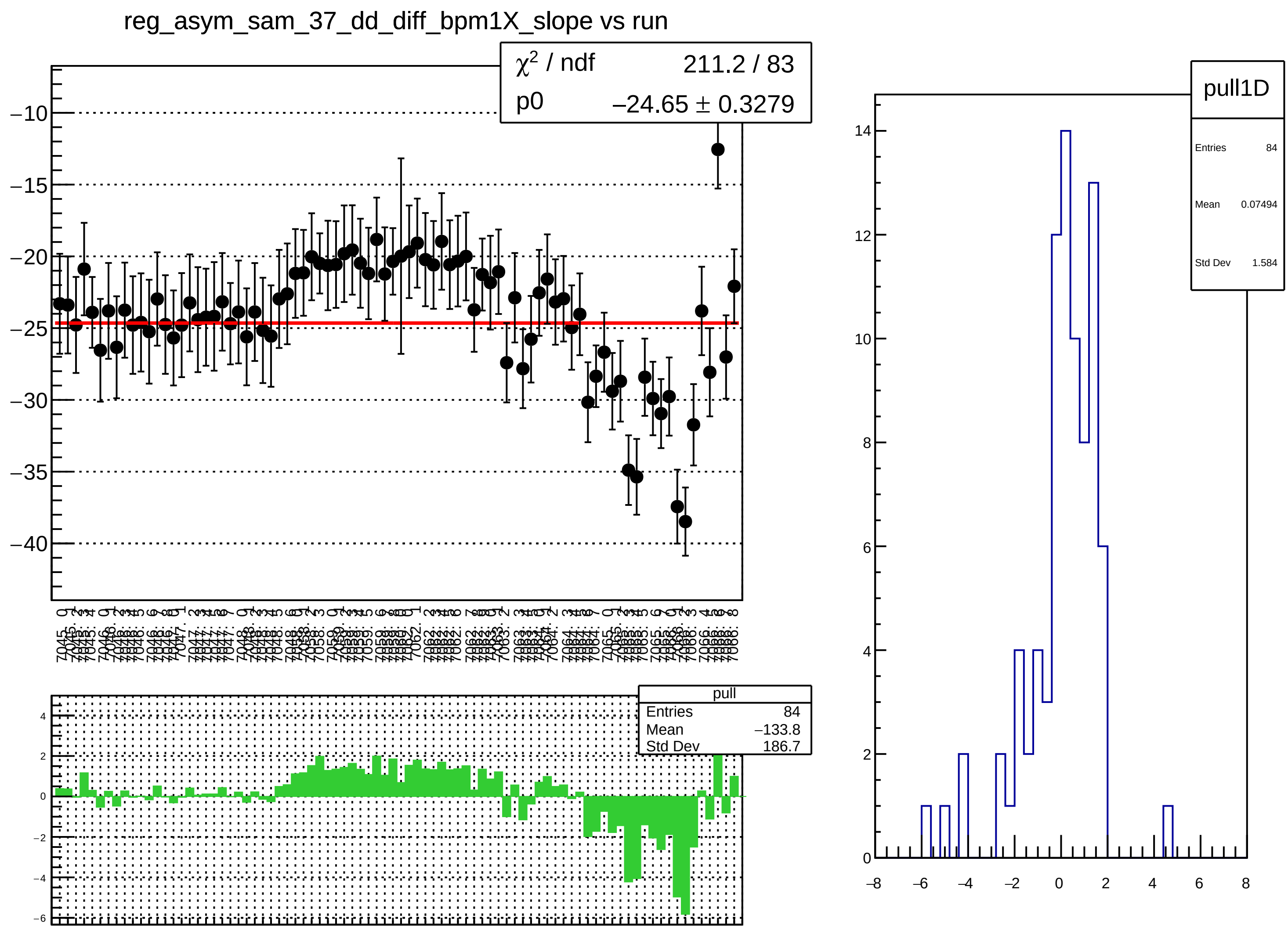


reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ2 / ndf 243.2 / 83
p0 −61.26 ± 0.6114
pull
Entries 84
Mean −126.8
Std Dev 171.5
pull1D
Entries 84
Mean −0.1634
Std Dev 1.694

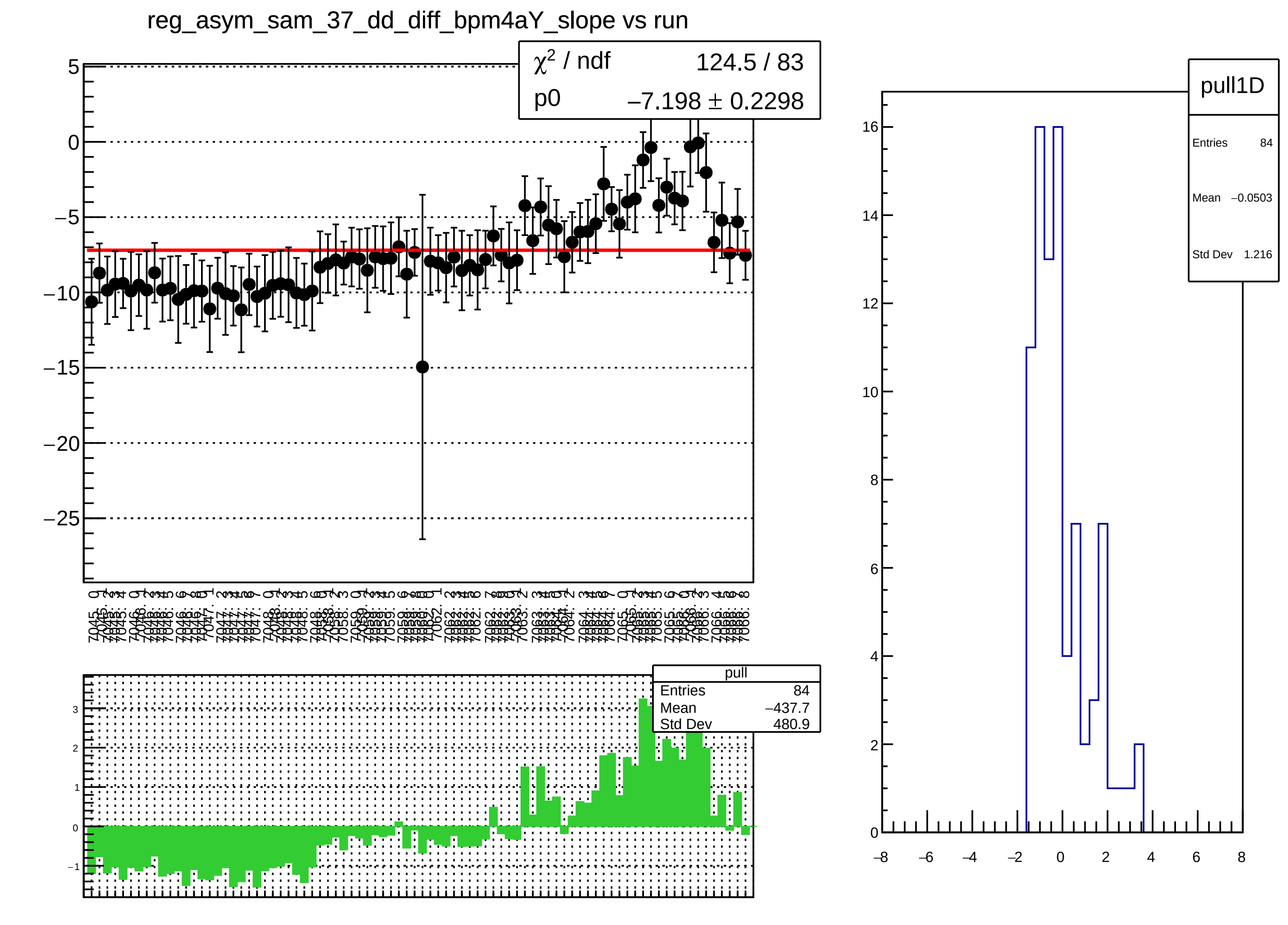


reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 152.5 / 83
p0 2.297 ± 0.4797
pull
Entries 84
Mean −398.9
Std Dev 442.6
pull1D
Entries 84
Mean 0.05974
Std Dev 1.346

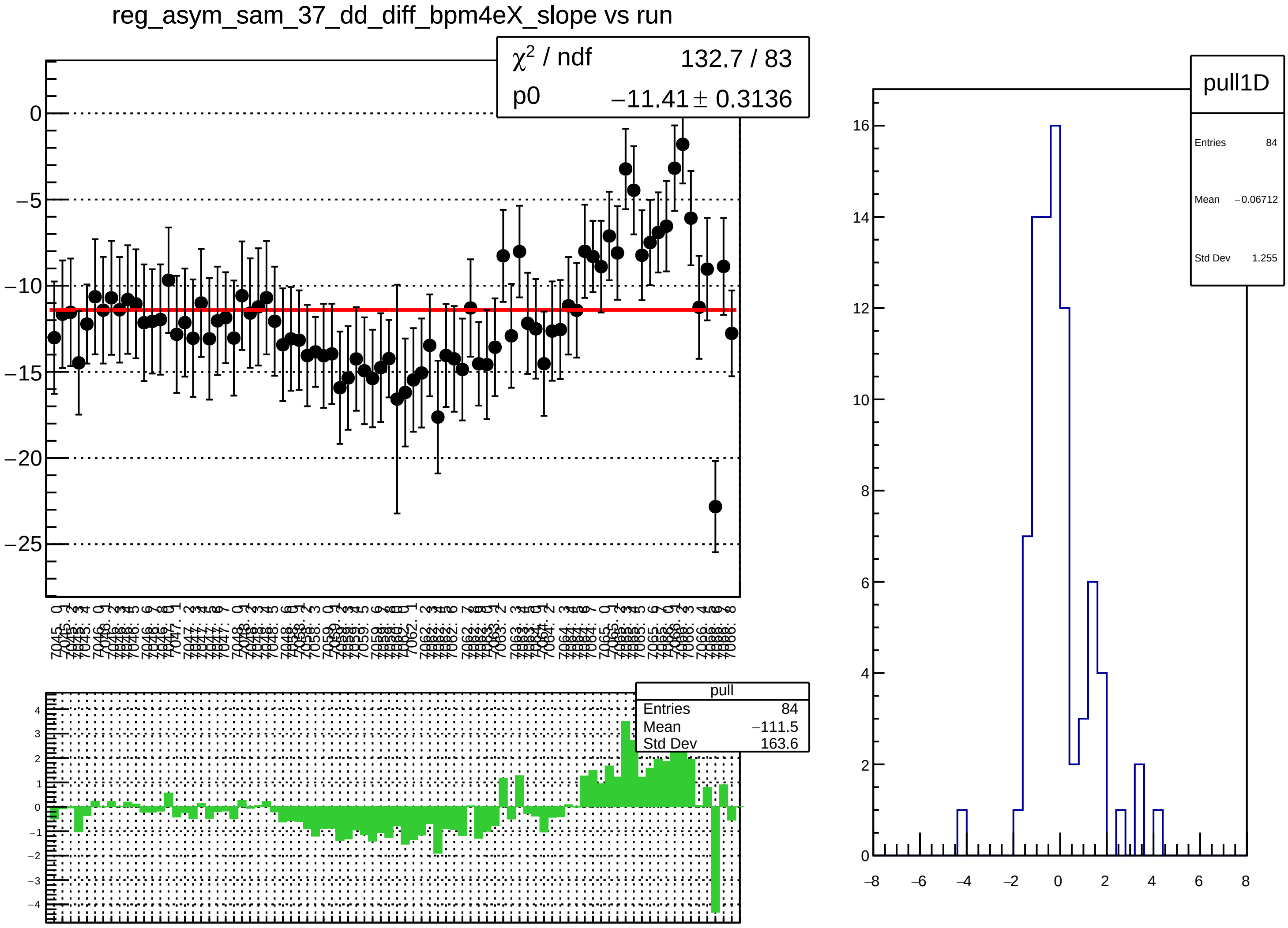

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 8.99 / 83
p0 0.2985 ± 0.02286
pull
Entries 84
Mean 4177
Std Dev 4127
pull1D
Entries 84
Mean −0.001198
Std Dev 0.3272

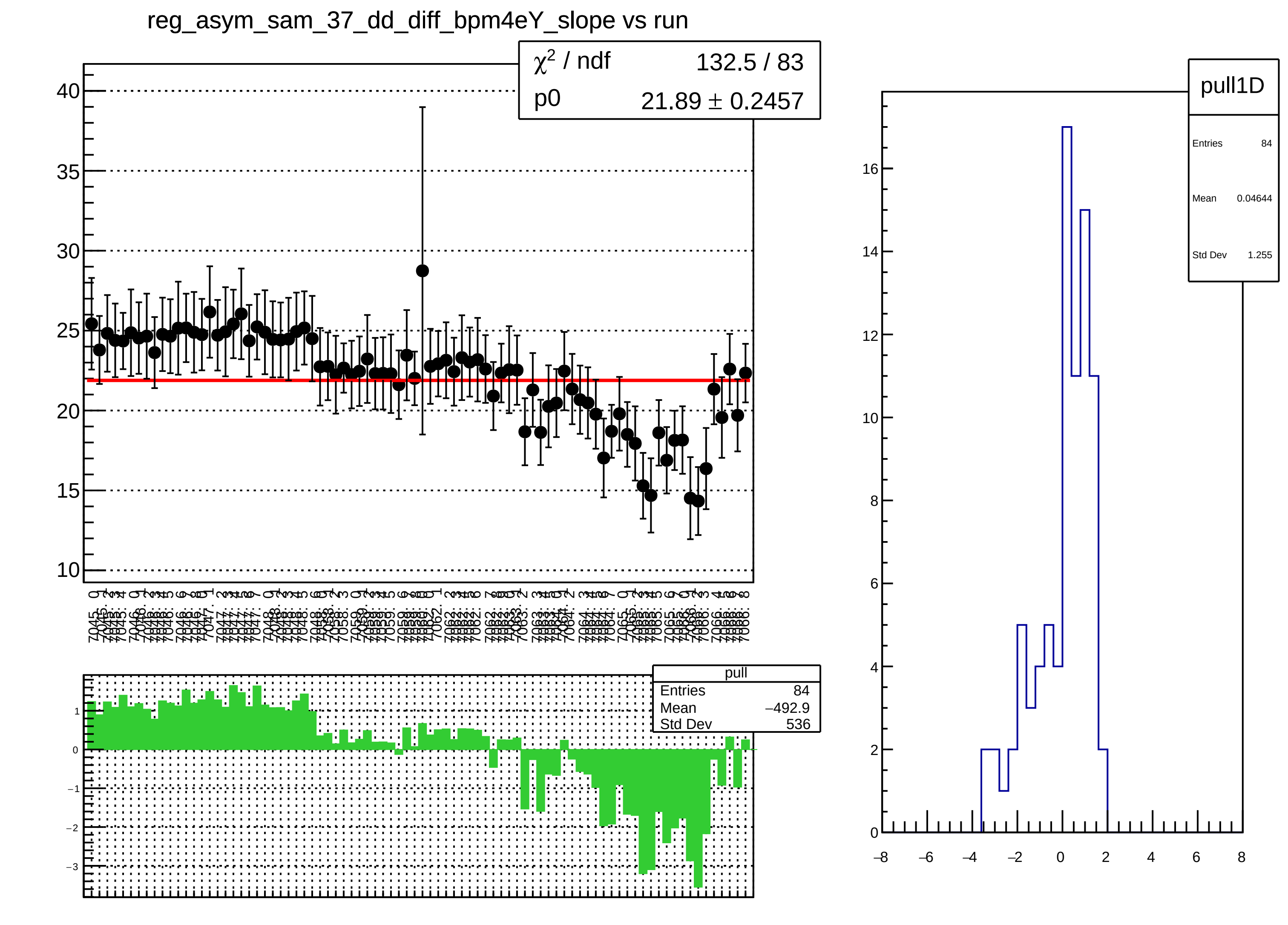


reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ2 / ndf 211.2 / 83
p0 −24.65 ± 0.3279
pull
Entries 84
Mean −133.8
Std Dev 186.7
pull1D
Entries 84
Mean 0.07494
Std Dev 1.584

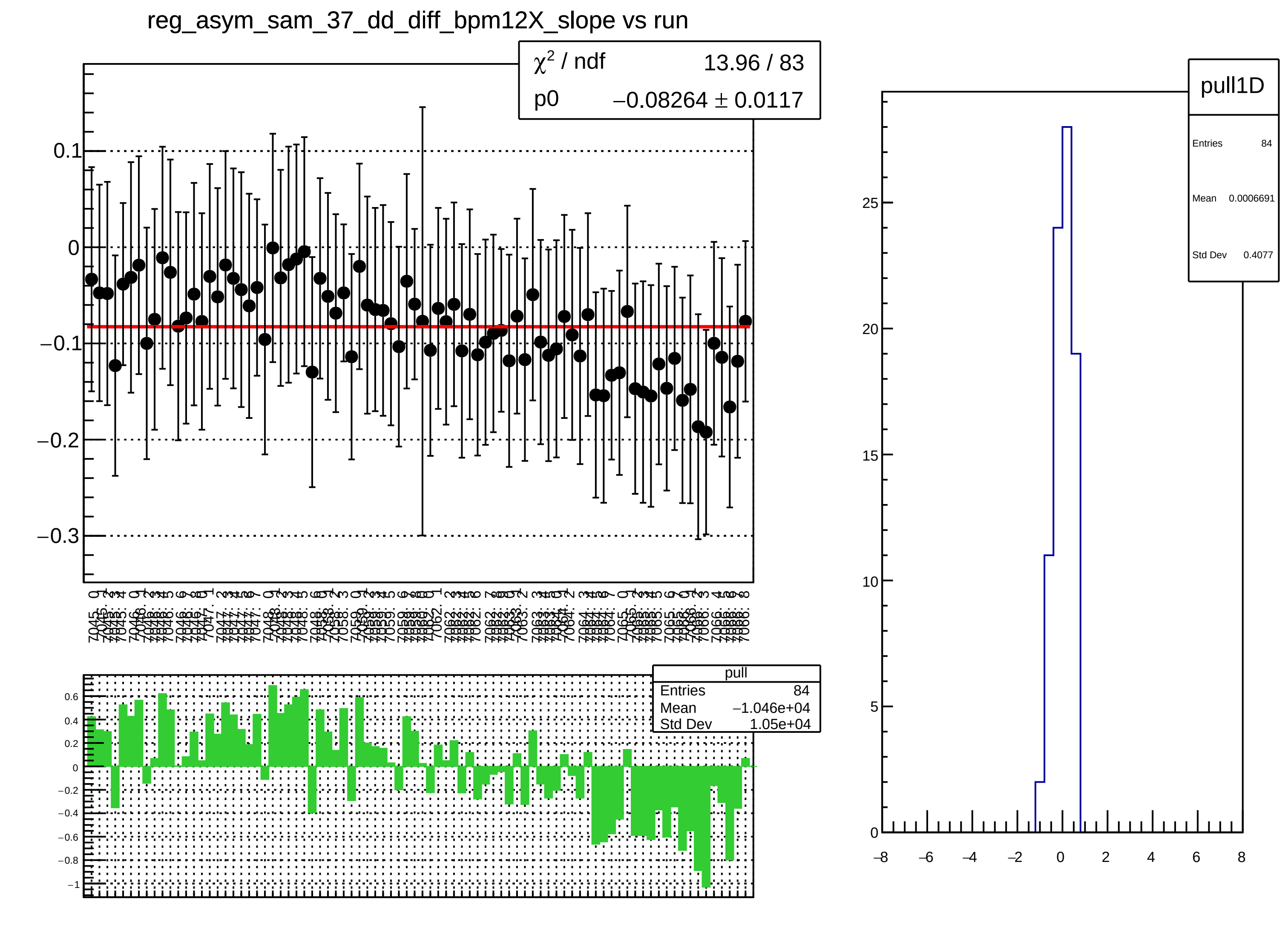


reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 124.5 / 83
p0 −7.198 ± 0.2298
pull
Entries 84
Mean −437.7
Std Dev 480.9
pull1D
Entries 84
Mean −0.0503
Std Dev 1.216

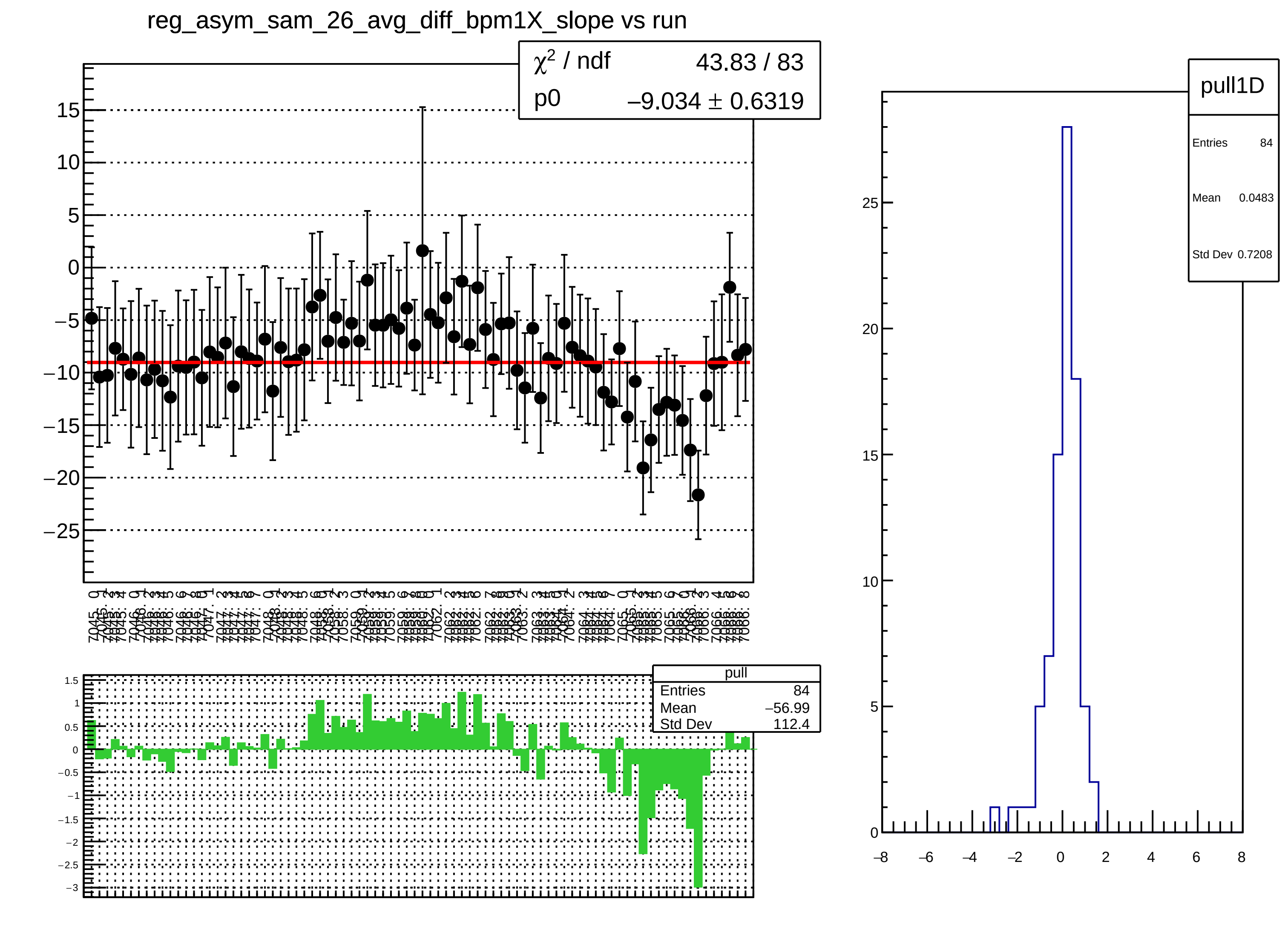

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 132.7 / 83
p0 −11.41 ± 0.3136
0
−5
−10
−15
−20
−25
pull
Entries 84
Mean −111.5
Std Dev 163.6
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 84
Mean −0.06712
Std Dev 1.255
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



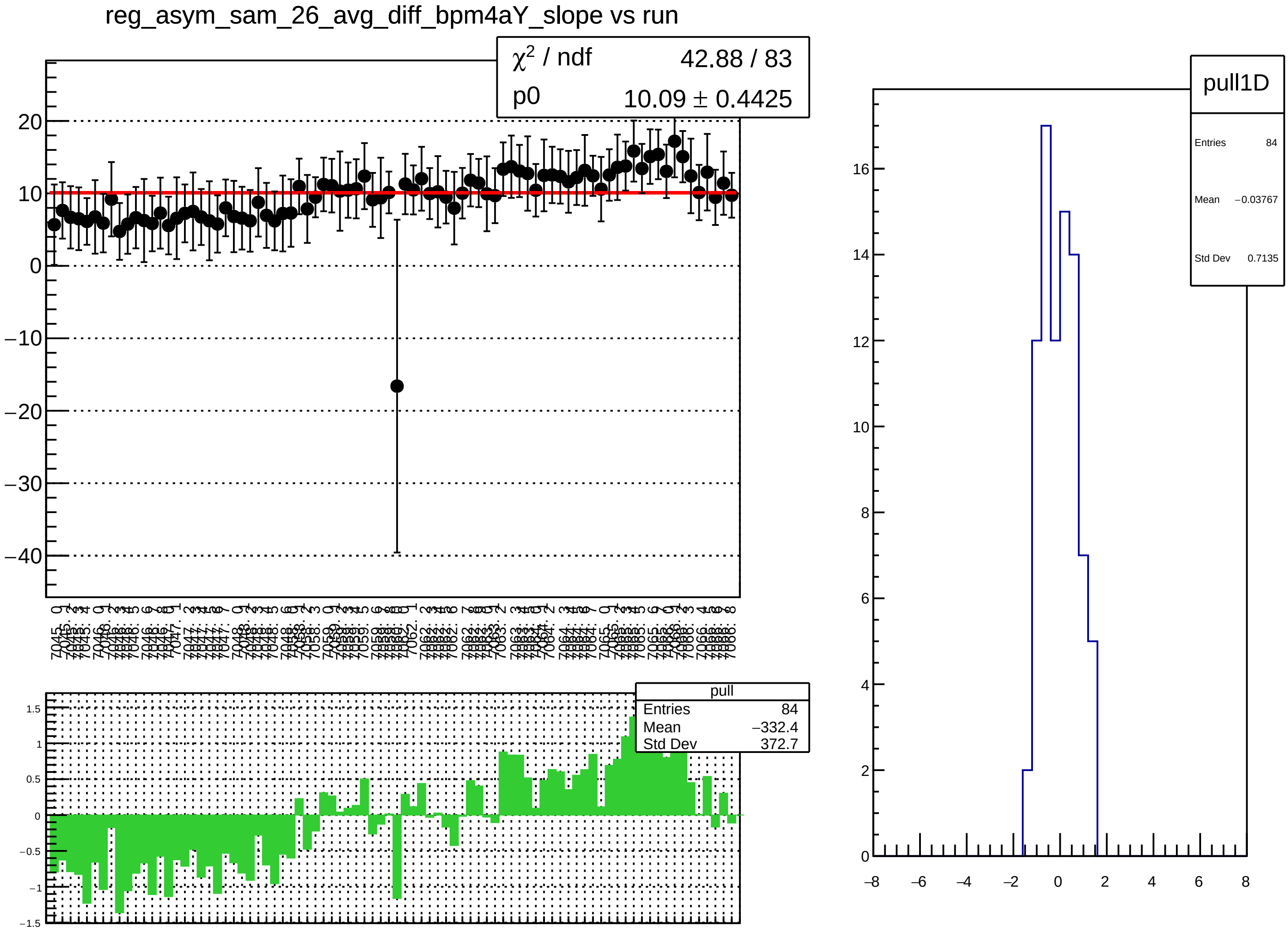
reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 132.5 / 83
p0 21.89 ± 0.2457
pull
Entries 84
Mean −492.9
Std Dev 536
pull1D
Entries 84
Mean 0.04644
Std Dev 1.255



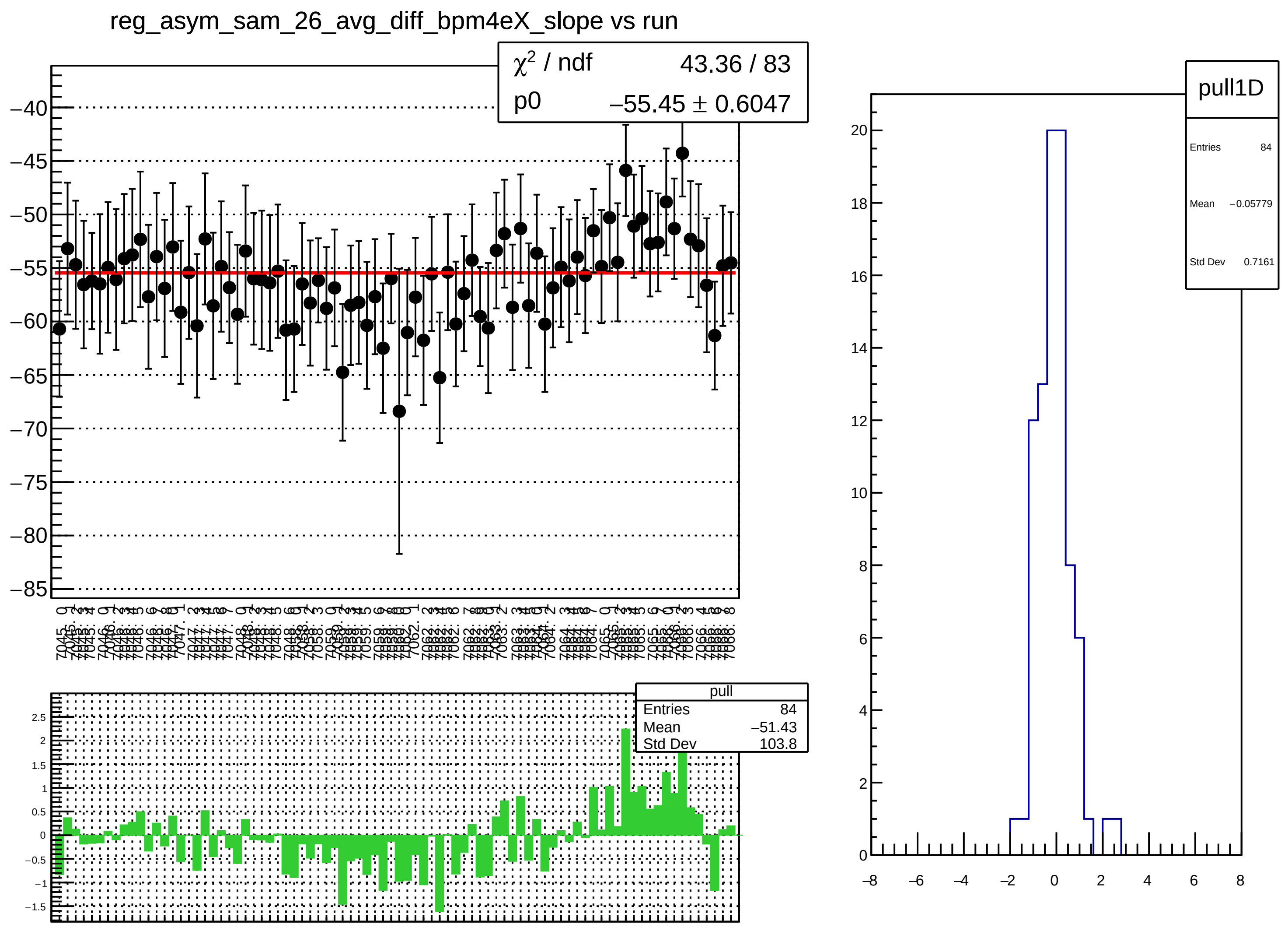
reg_asym_sam_37_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 13.96 / 83
p0 −0.08264 ± 0.0117
pull
Entries 84
Mean −1.046e+04
Std Dev 1.05e+04
pull1D
Entries 84
Mean 0.0006691
Std Dev 0.4077



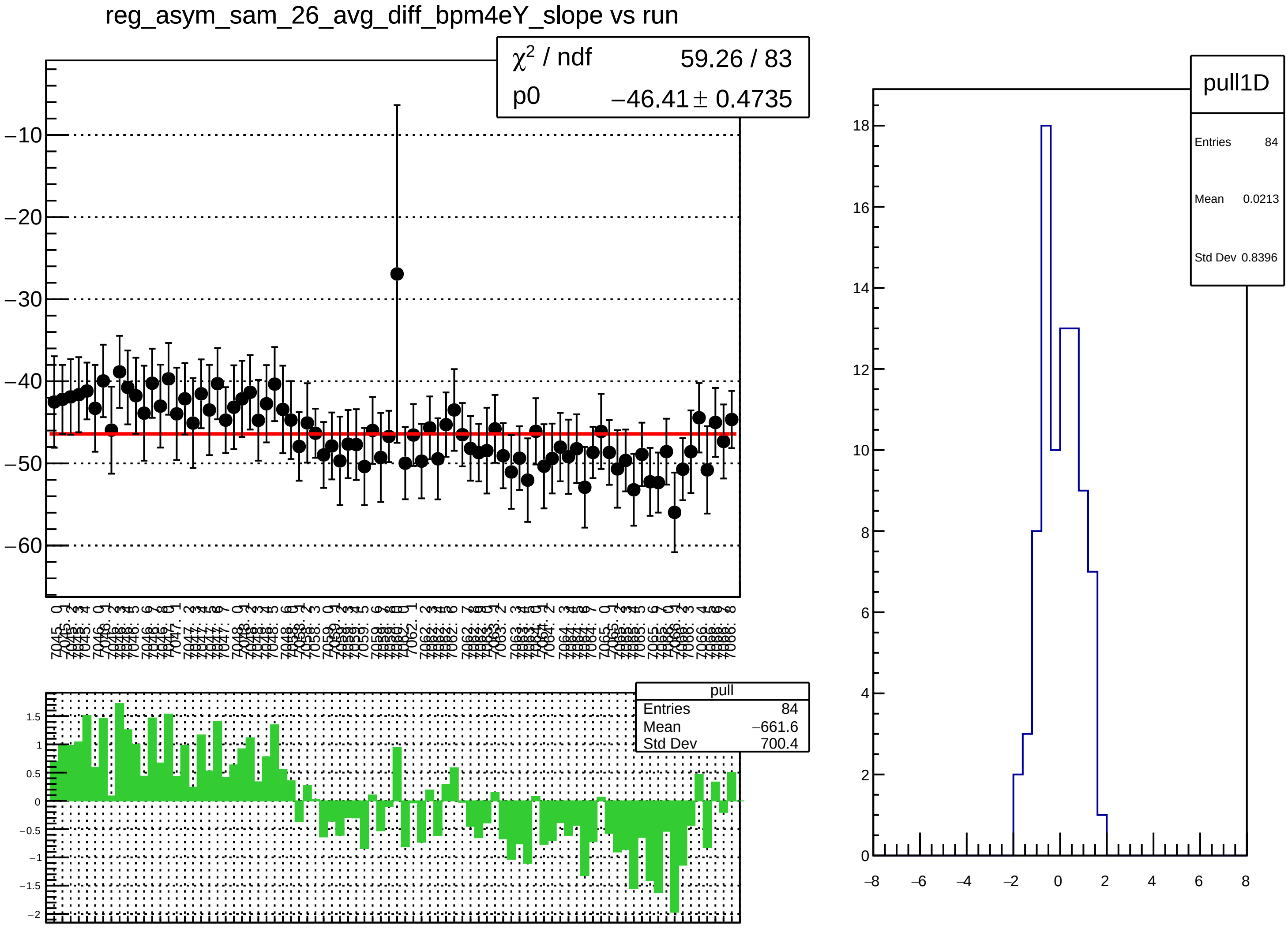
reg_asym_sam_26_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 43.83 / 83
p0 −9.034 ± 0.6319
pull
Entries 84
Mean −56.99
Std Dev 112.4
pull1D
Entries 84
Mean 0.0483
Std Dev 0.7208



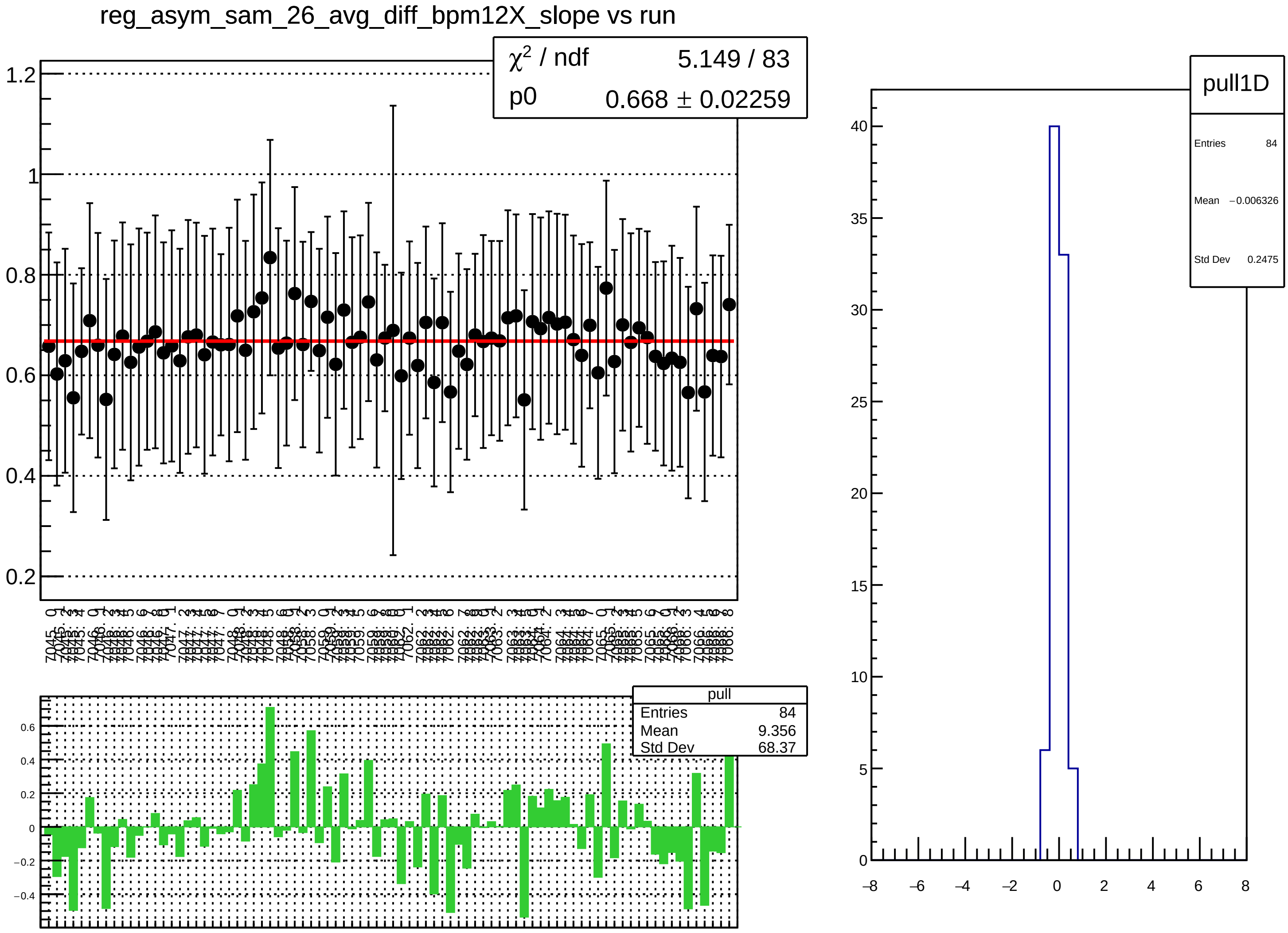
reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 42.88 / 83
p0 10.09 ± 0.4425
pull
Entries 84
Mean −332.4
Std Dev 372.7
pull1D
Entries 84
Mean −0.03767
Std Dev 0.7135



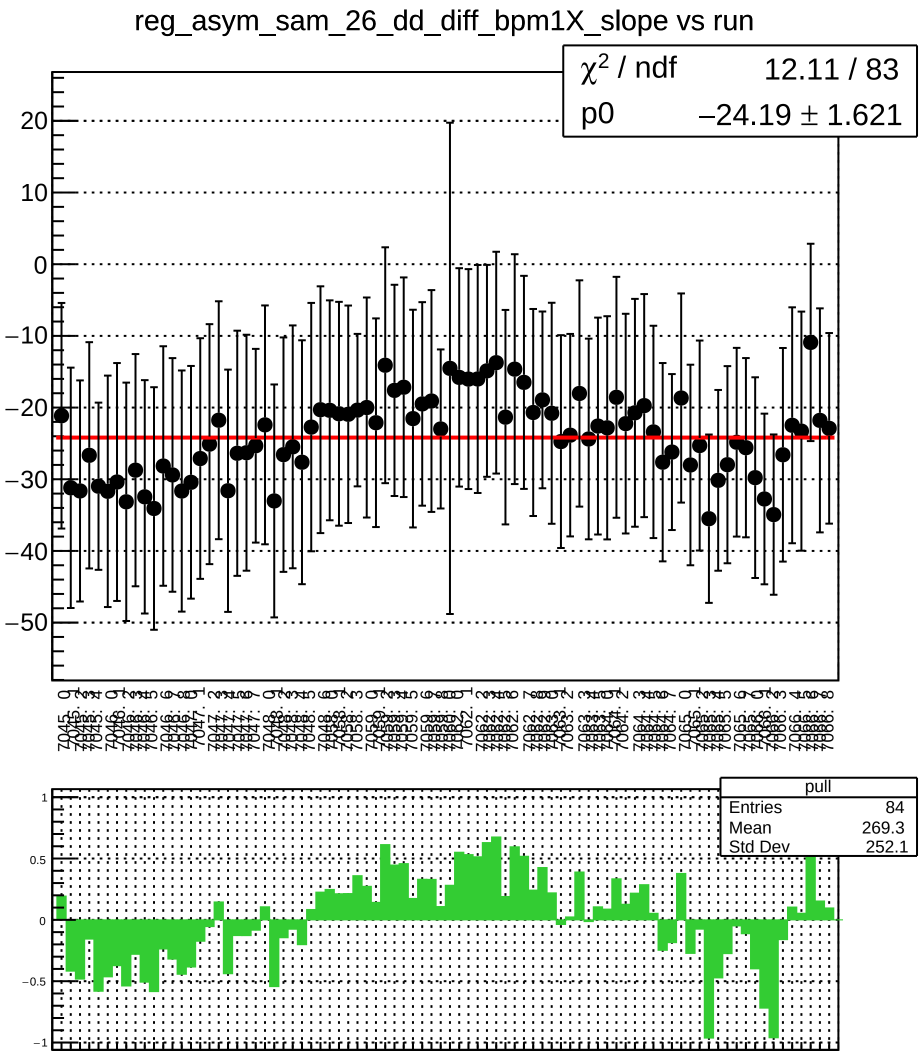
reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 43.36 / 83
p0 −55.45 ± 0.6047
pull
Entries 84
Mean −51.43
Std Dev 103.8
pull1D
Entries 84
Mean −0.05779
Std Dev 0.7161

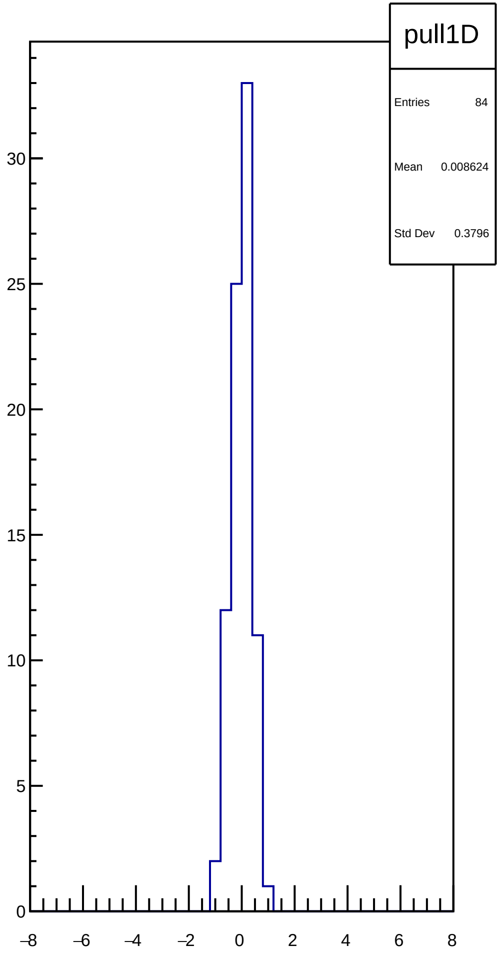


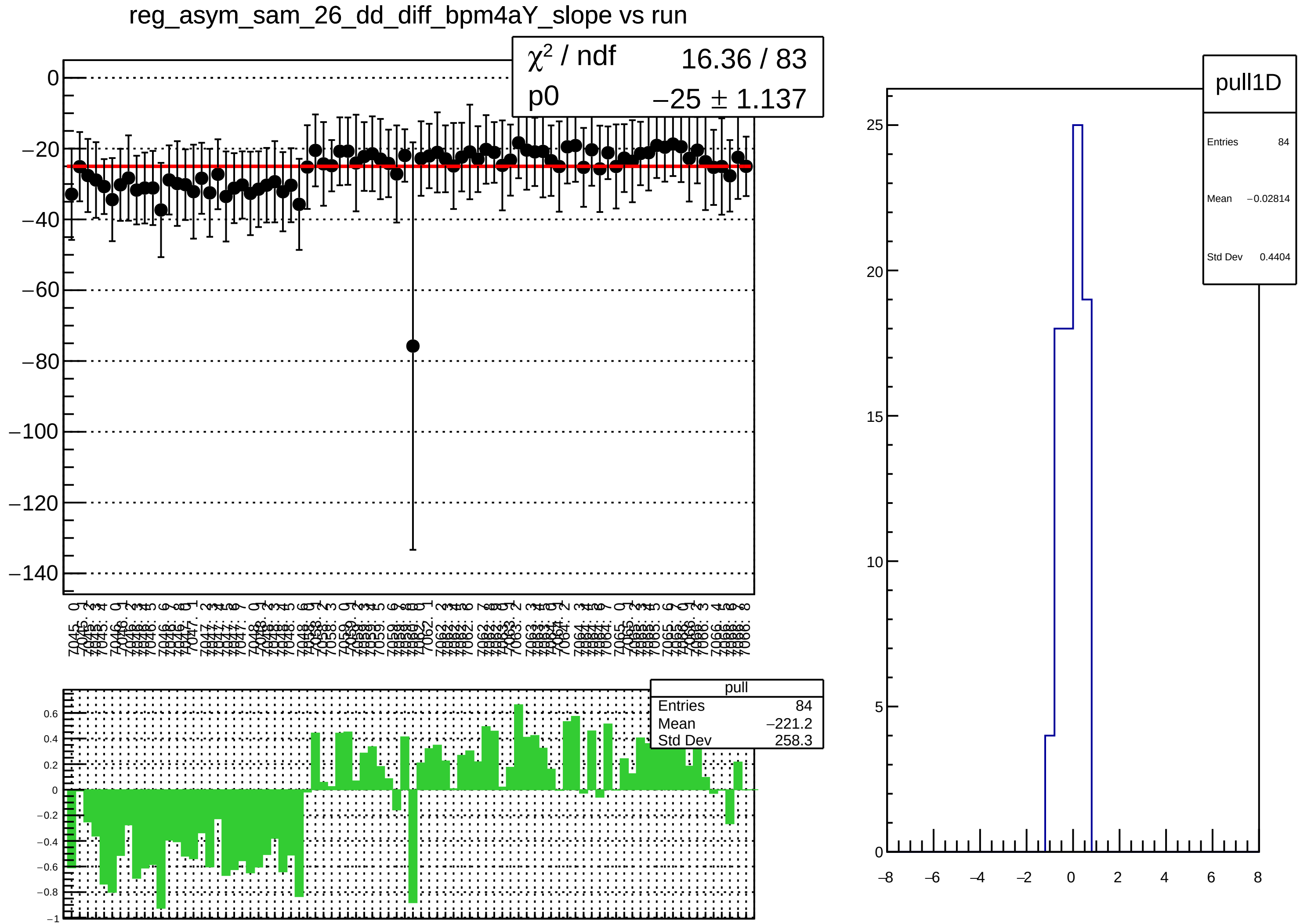
reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 59.26 / 83
p0 −46.41 ± 0.4735
−10
−20
−30
−40
−50
−60
pull
Entries 84
Mean −661.6
Std Dev 700.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.0213
Std Dev 0.8396
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



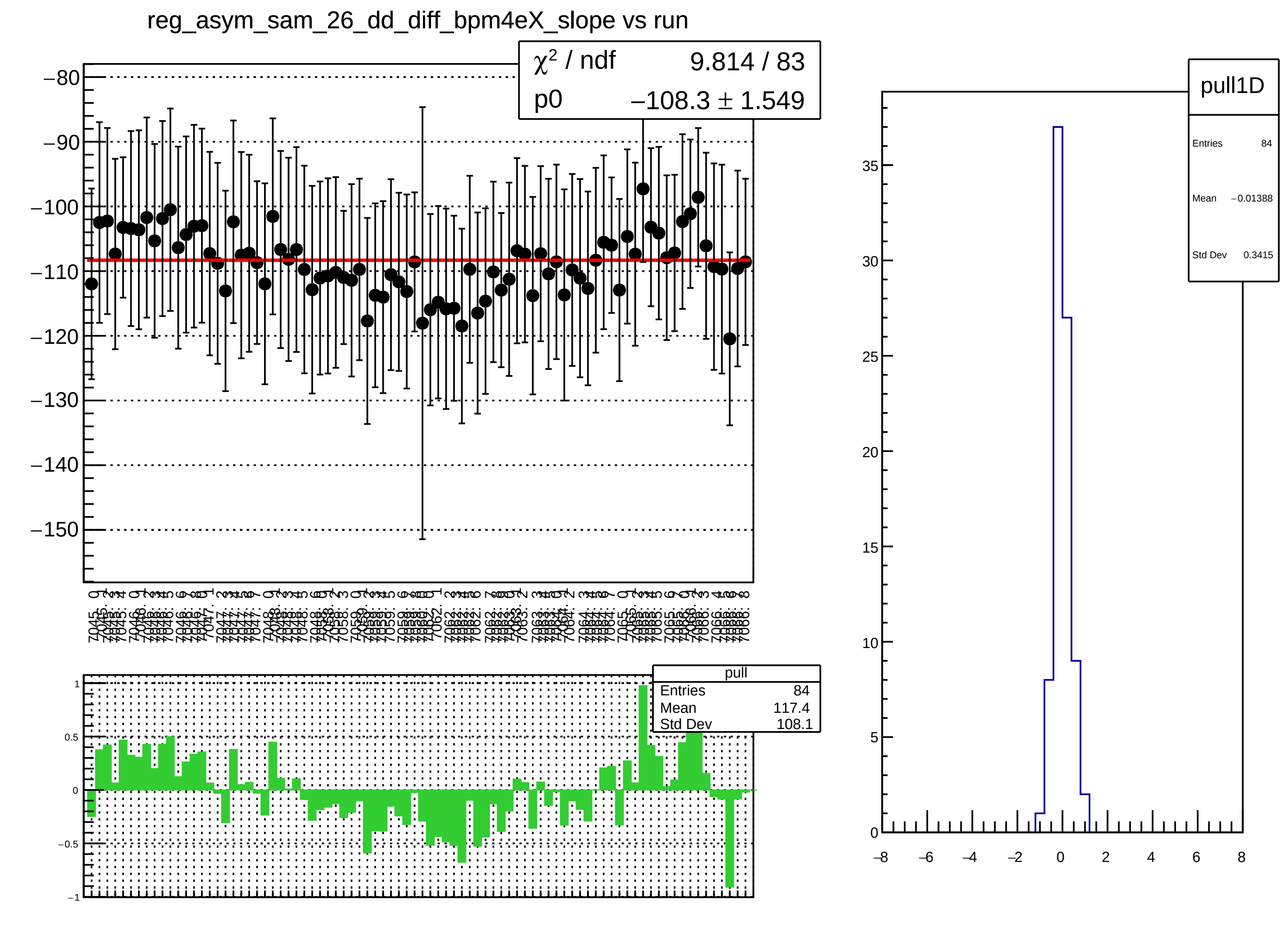
reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ2 / ndf 5.149 / 83
p0 0.668 ± 0.02259
pull
Entries 84
Mean 9.356
Std Dev 68.37
pull1D
Entries 84
Mean −0.006326
Std Dev 0.2475


reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ2 / ndf 12.11 / 83
p0 −24.19 ± 1.621
pull
Entries 84
Mean 269.3
Std Dev 252.1

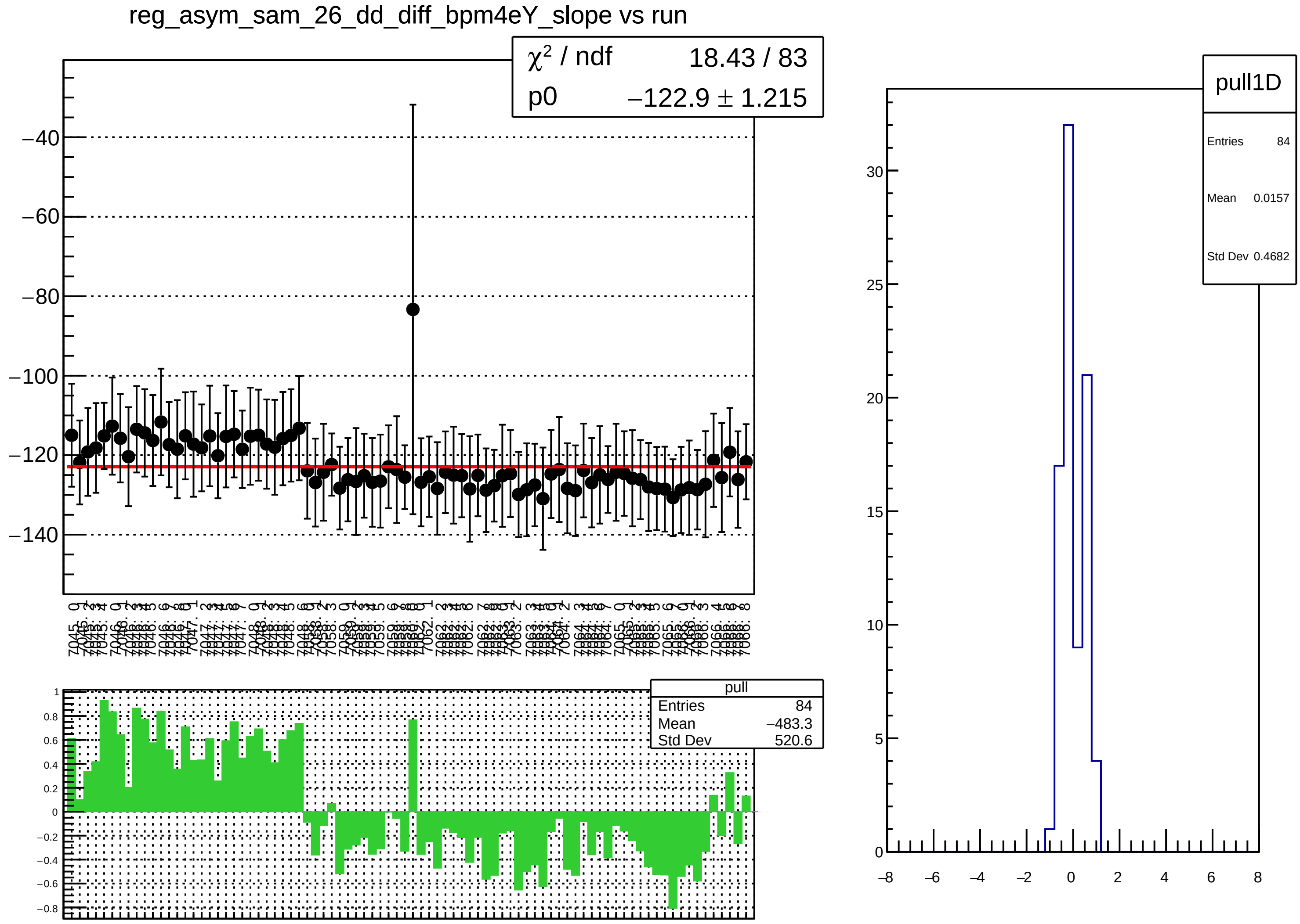

pull1D
Entries 84
Mean 0.008624
Std Dev 0.3796



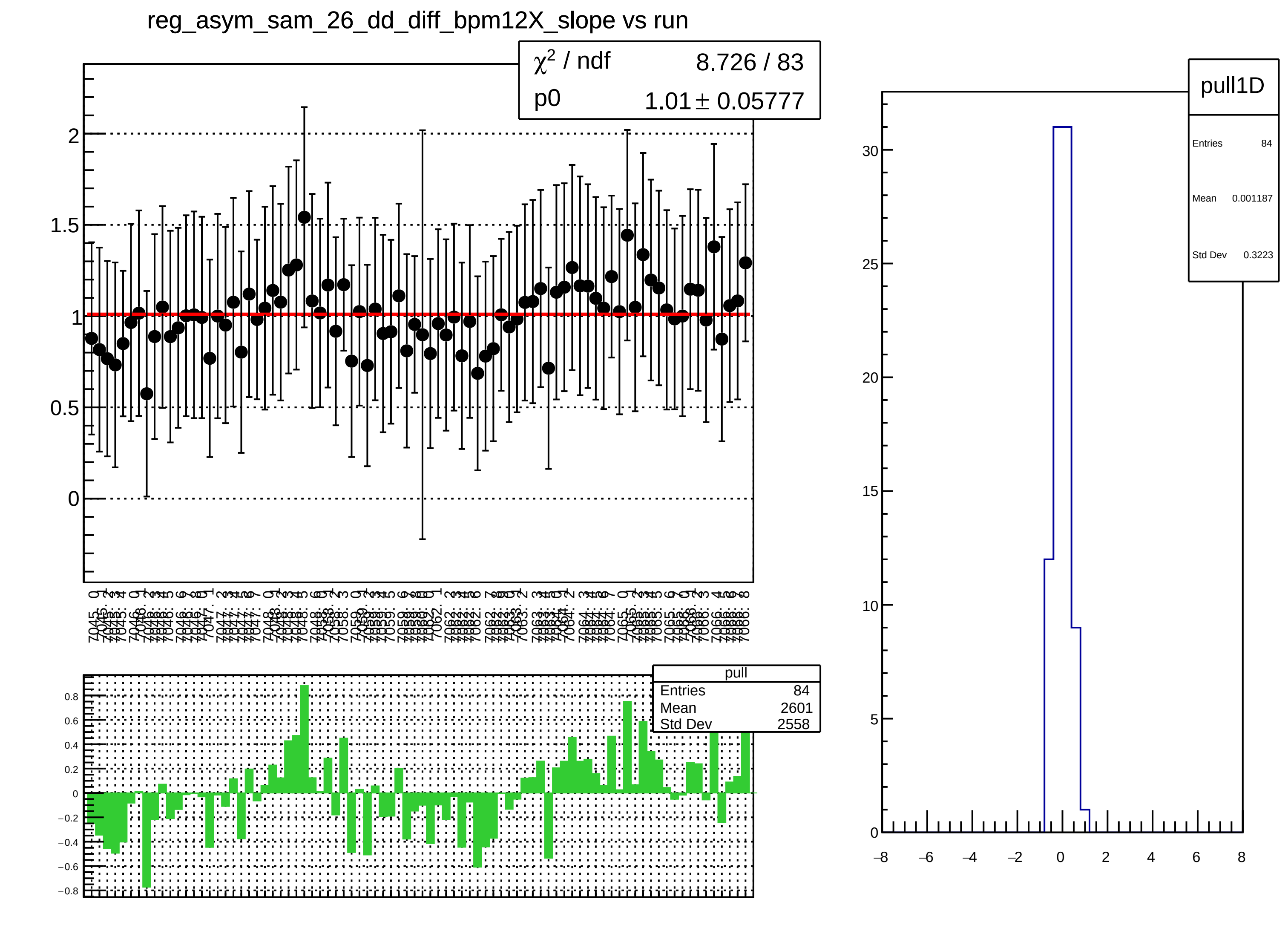
reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ2 / ndf 16.36 / 83
p0 −25 ± 1.137
pull
Entries 84
Mean −221.2
Std Dev 258.3
pull1D
Entries 84
Mean −0.02814
Std Dev 0.4404



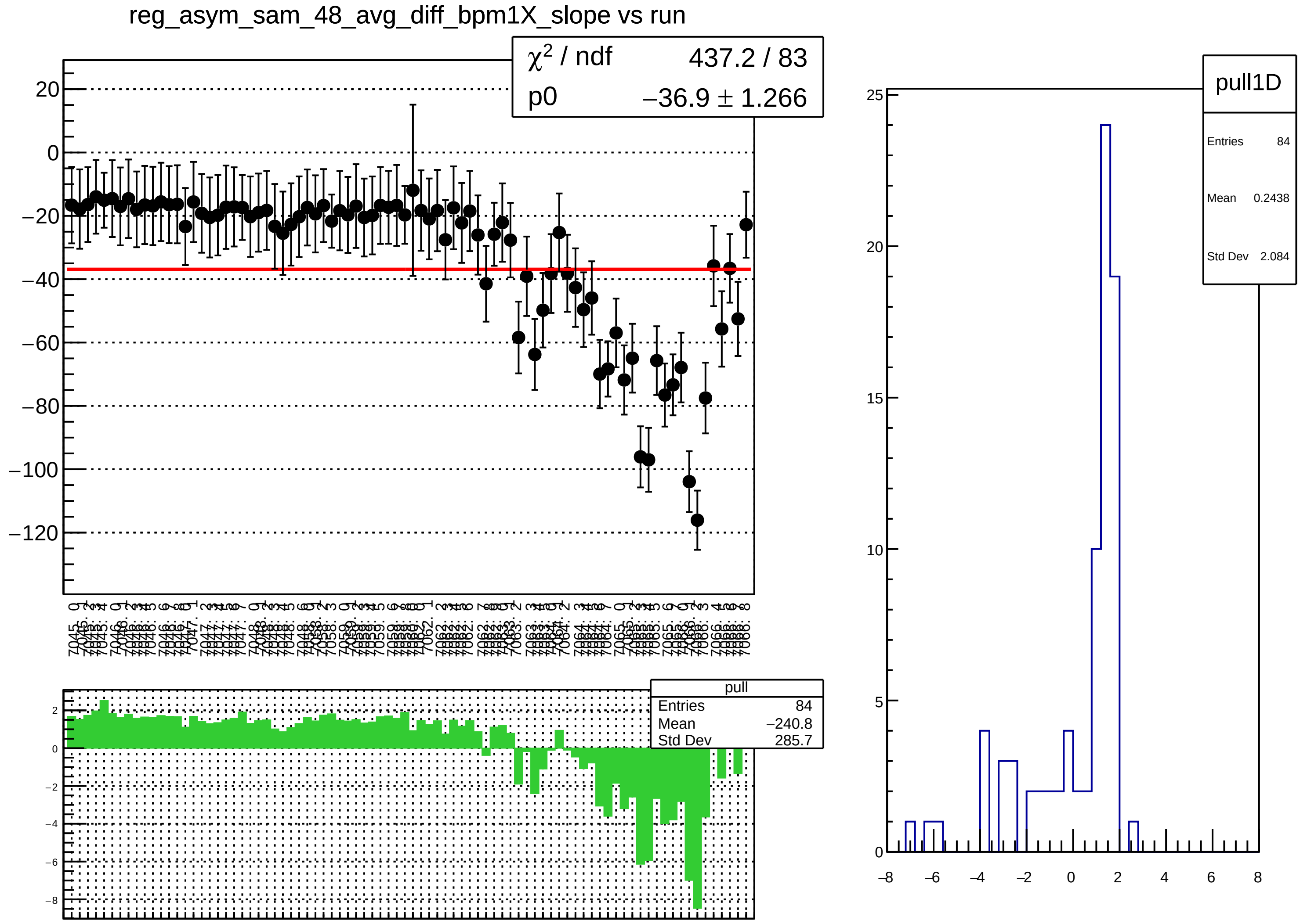
reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ2 / ndf 9.814 / 83
p0 −108.3 ± 1.549
pull
Entries 84
Mean 117.4
Std Dev 108.1
pull1D
Entries 84
Mean −0.01388
Std Dev 0.3415

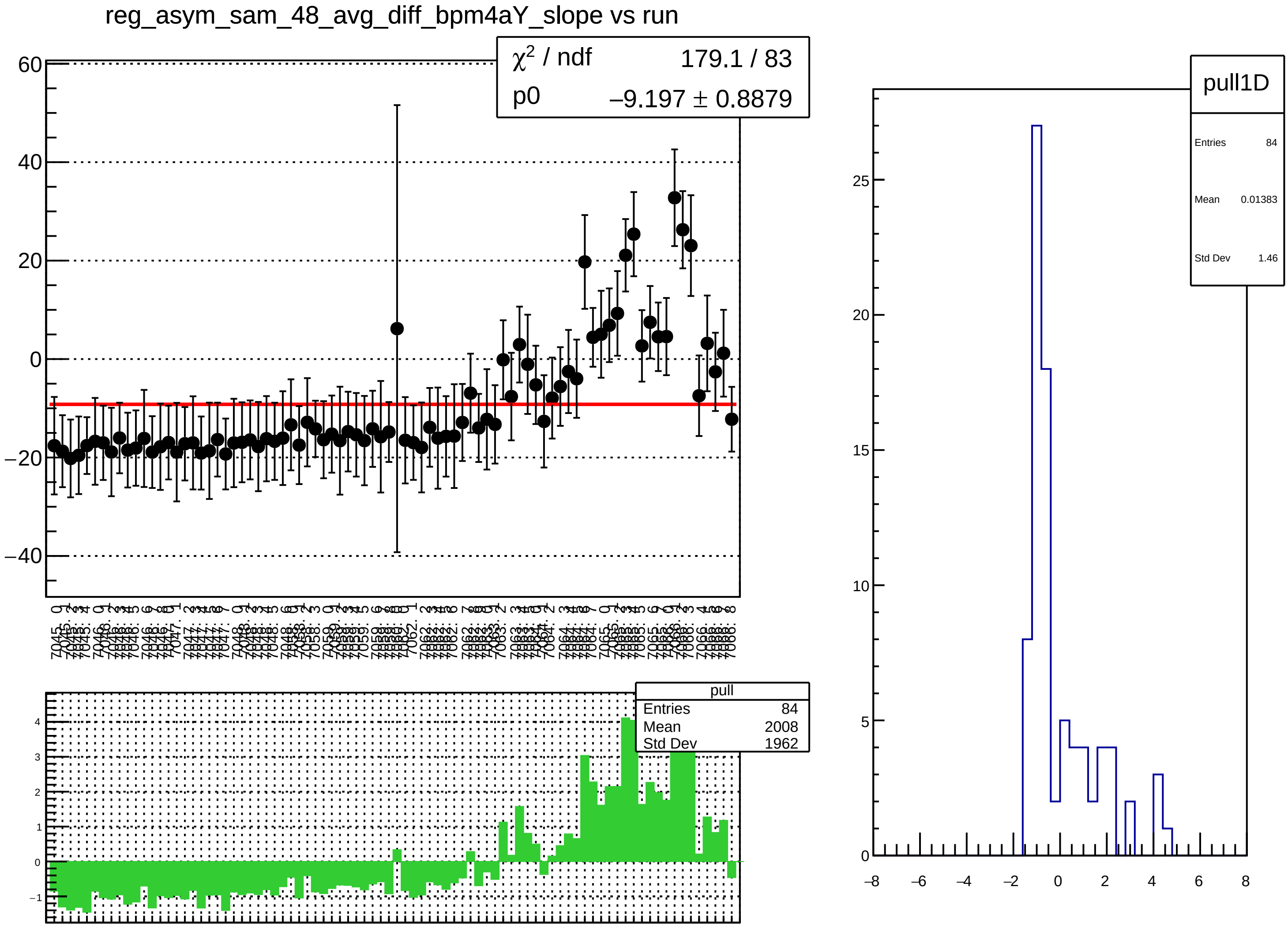


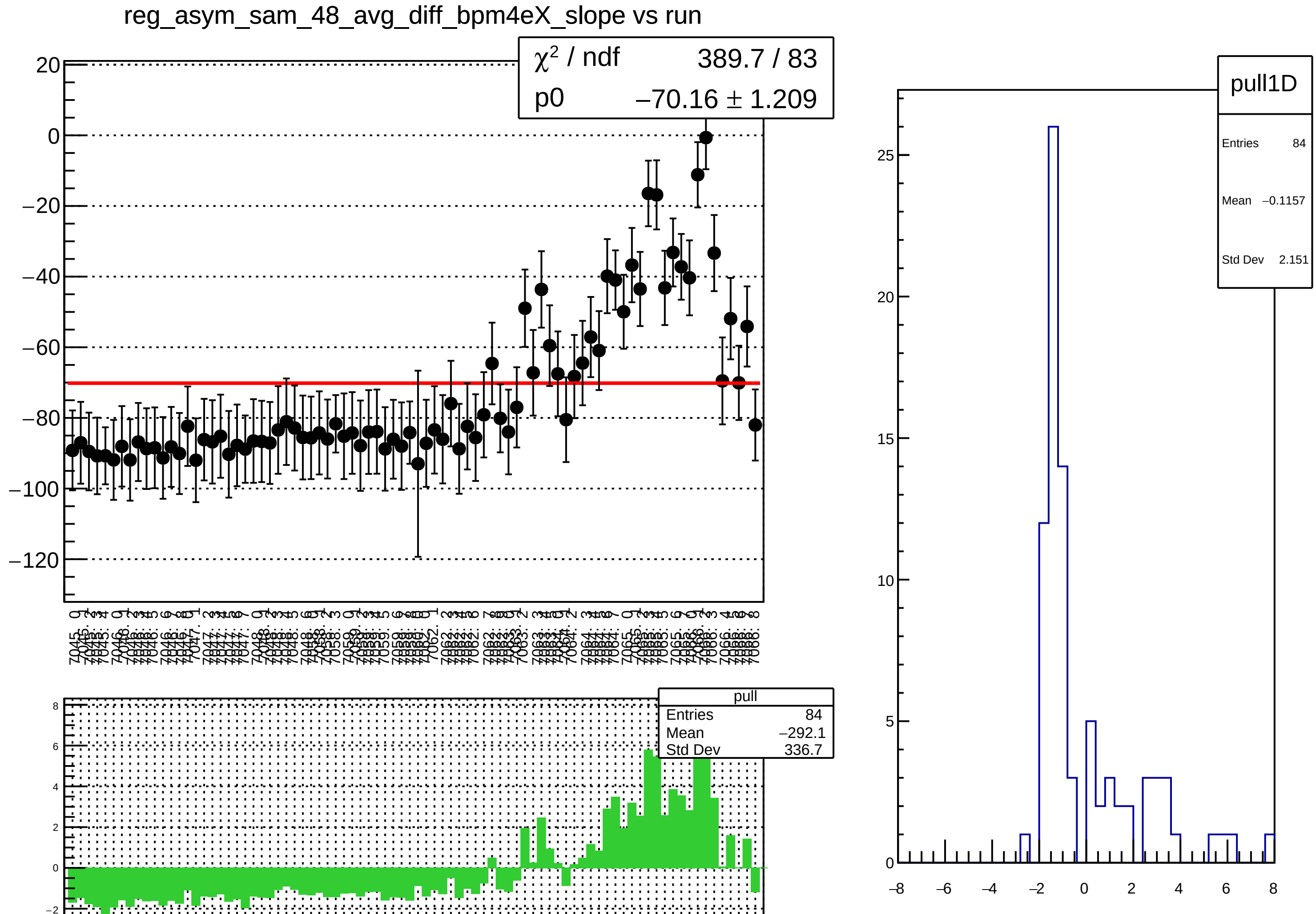
reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ2 / ndf 18.43 / 83
p0 −122.9 ± 1.215
−40
−60
−80
−100
−120
−140
pull
Entries 84
Mean −483.3
Std Dev 520.6
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 84
Mean 0.0157
Std Dev 0.4682
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



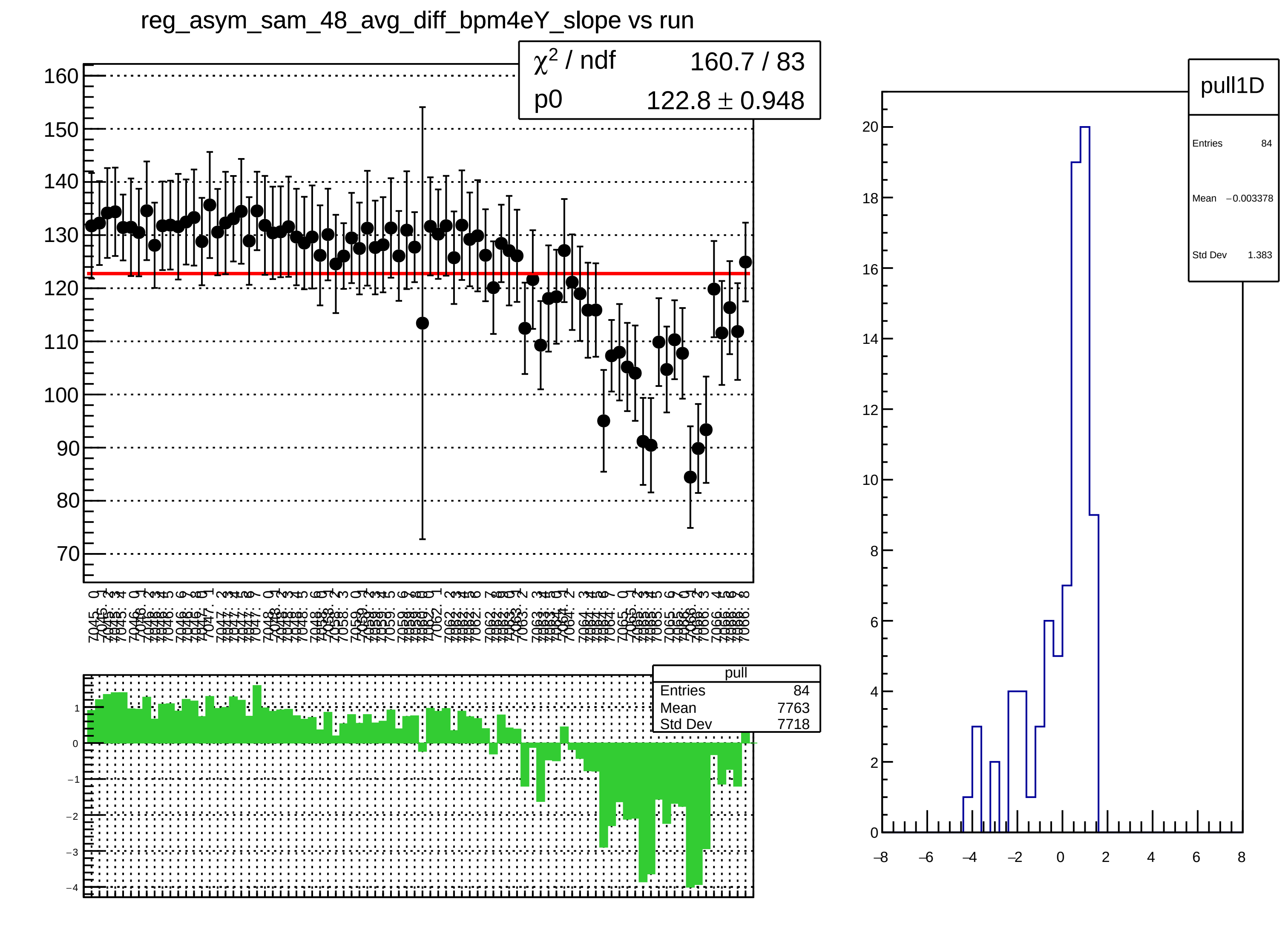
reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ2 / ndf 8.726 / 83
p0 1.01 ± 0.05777
pull
Entries 84
Mean 2601
Std Dev 2558
pull1D
Entries 84
Mean 0.001187
Std Dev 0.3223


reg_asym_sam_48_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 437.2 / 83
p0 −36.9 ± 1.266
pull
Entries 84
Mean −240.8
Std Dev 285.7
pull1D
Entries 84
Mean 0.2438
Std Dev 2.084

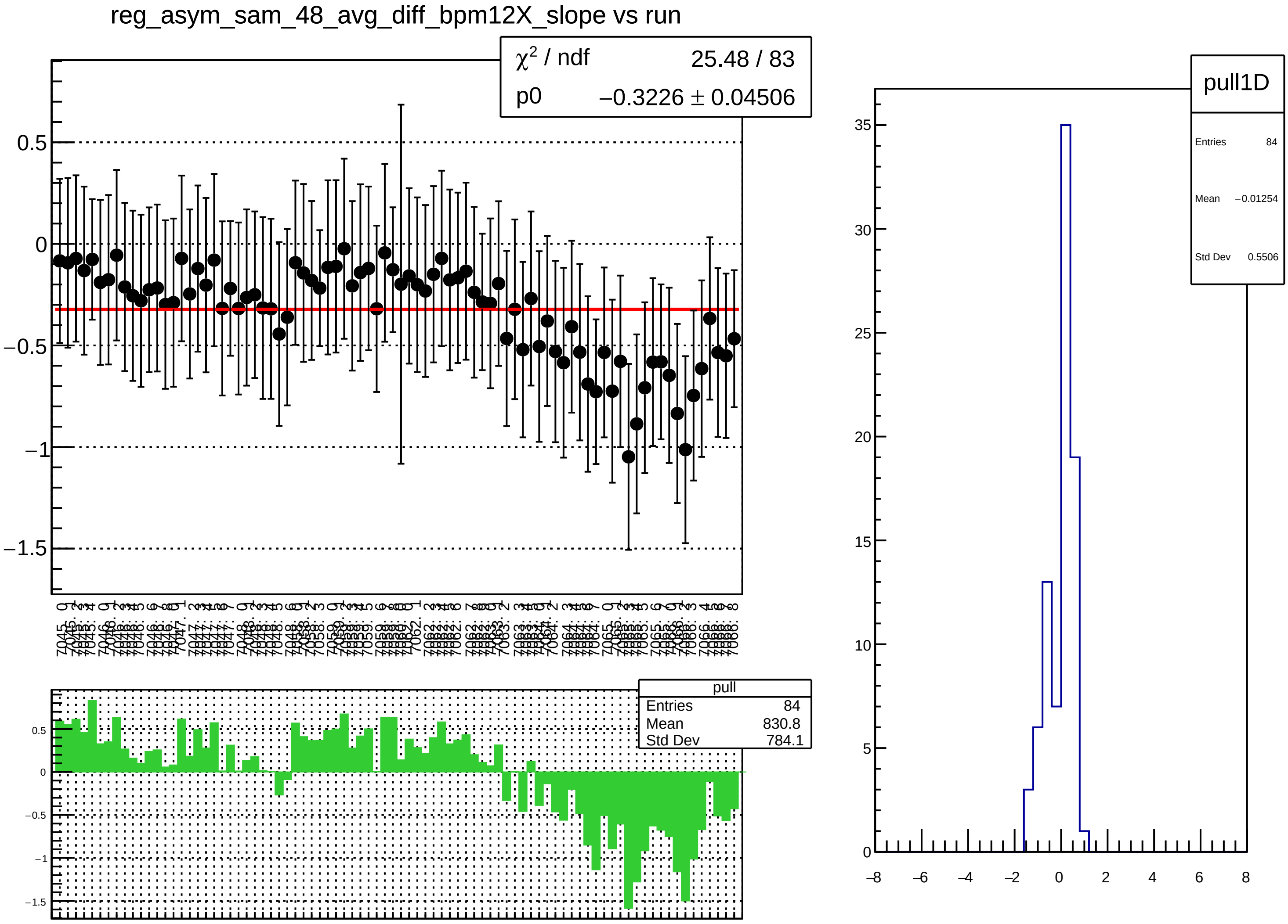

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ2 / ndf 179.1 / 83
p0 −9.197 ± 0.8879
60
40
20
0
−20
−40
pull
Entries 84
Mean 2008
Std Dev 1962
4
3
2
1
0
−1
pull1D
Entries 84
Mean 0.01383
Std Dev 1.46
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



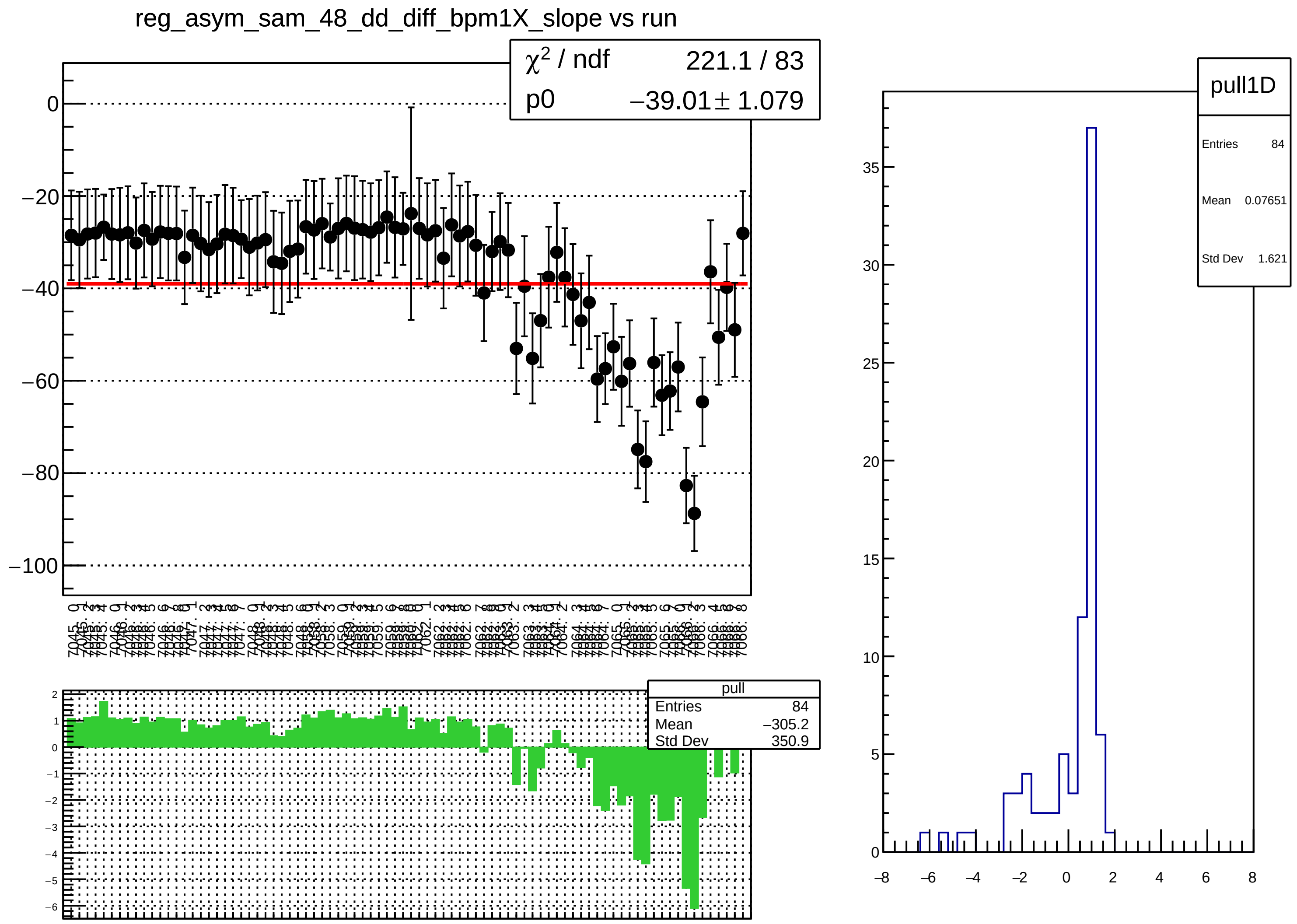
reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ2 / ndf 389.7 / 83
p0 −70.16 ± 1.209
pull
Entries 84
Mean −292.1
Std Dev 336.7
pull1D
Entries 84
Mean −0.1157
Std Dev 2.151



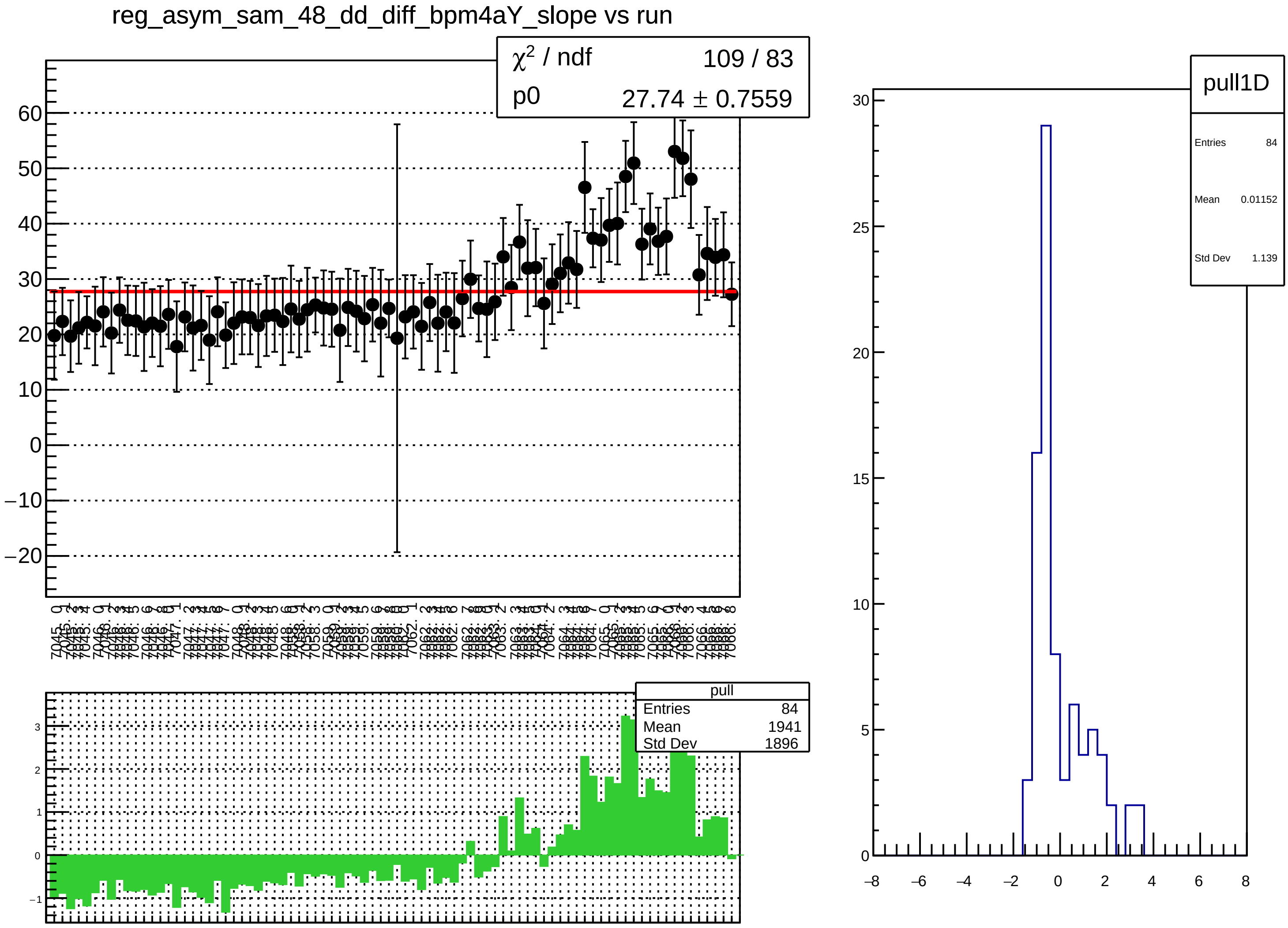
reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ2 / ndf 160.7 / 83
p0 122.8 ± 0.948
pull
Entries 84
Mean 7763
Std Dev 7718
pull1D
Entries 84
Mean −0.003378
Std Dev 1.383



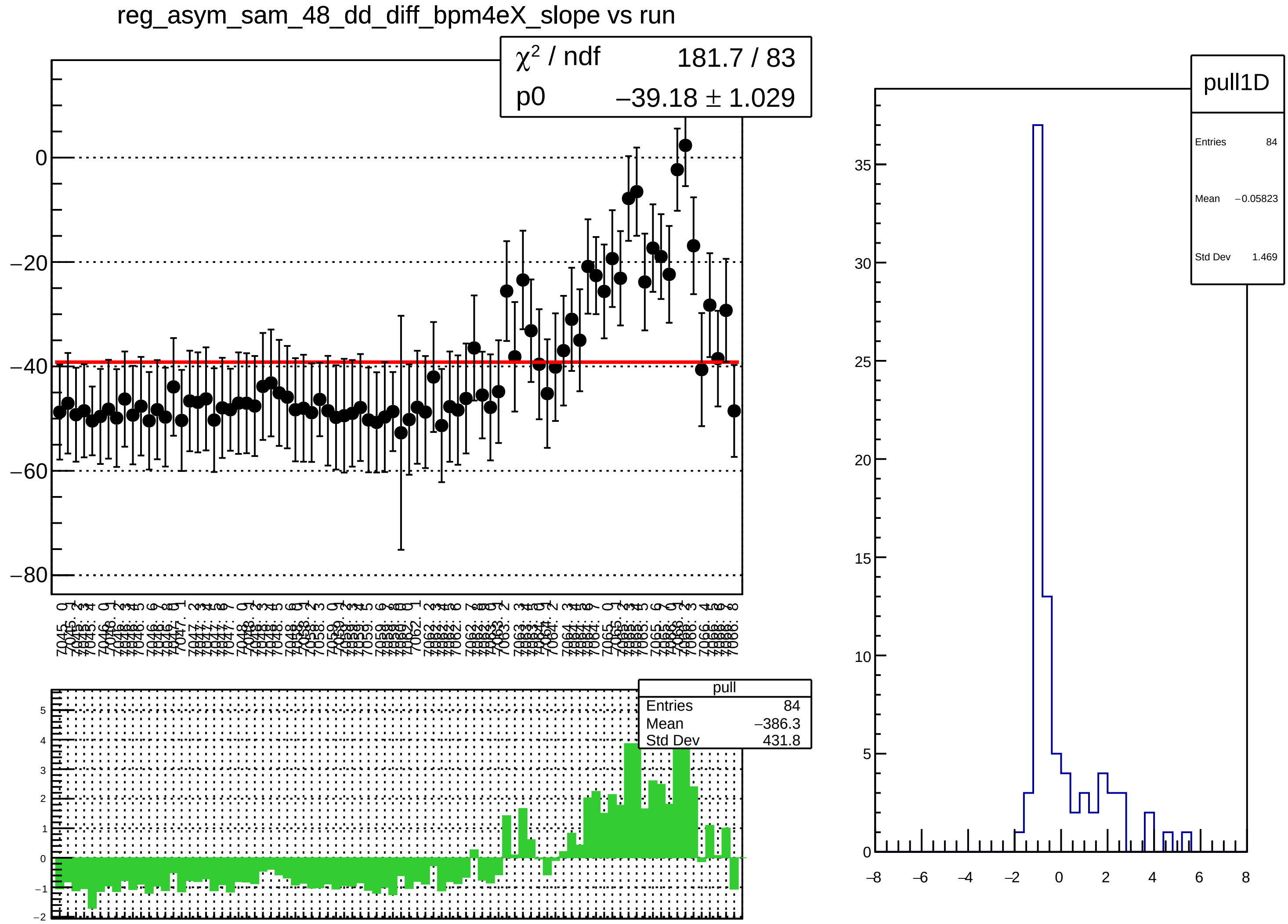
reg_asym_sam_48_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 25.48 / 83
p0 −0.3226 ± 0.04506
pull
Entries 84
Mean 830.8
Std Dev 784.1
pull1D
Entries 84
Mean −0.01254
Std Dev 0.5506



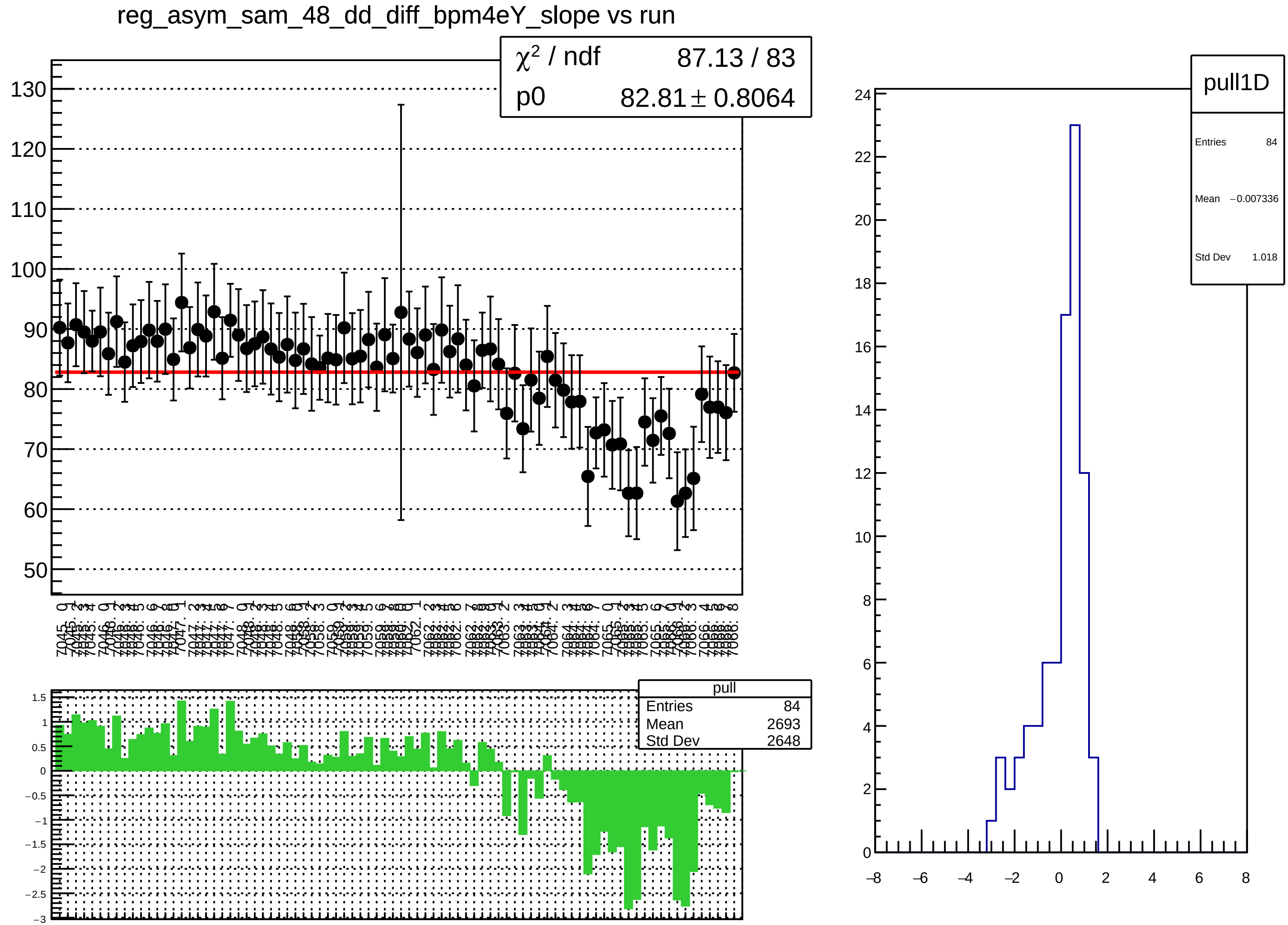
reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ2 / ndf 221.1 / 83
p0 −39.01 ± 1.079
pull
Entries 84
Mean −305.2
Std Dev 350.9
pull1D
Entries 84
Mean 0.07651
Std Dev 1.621

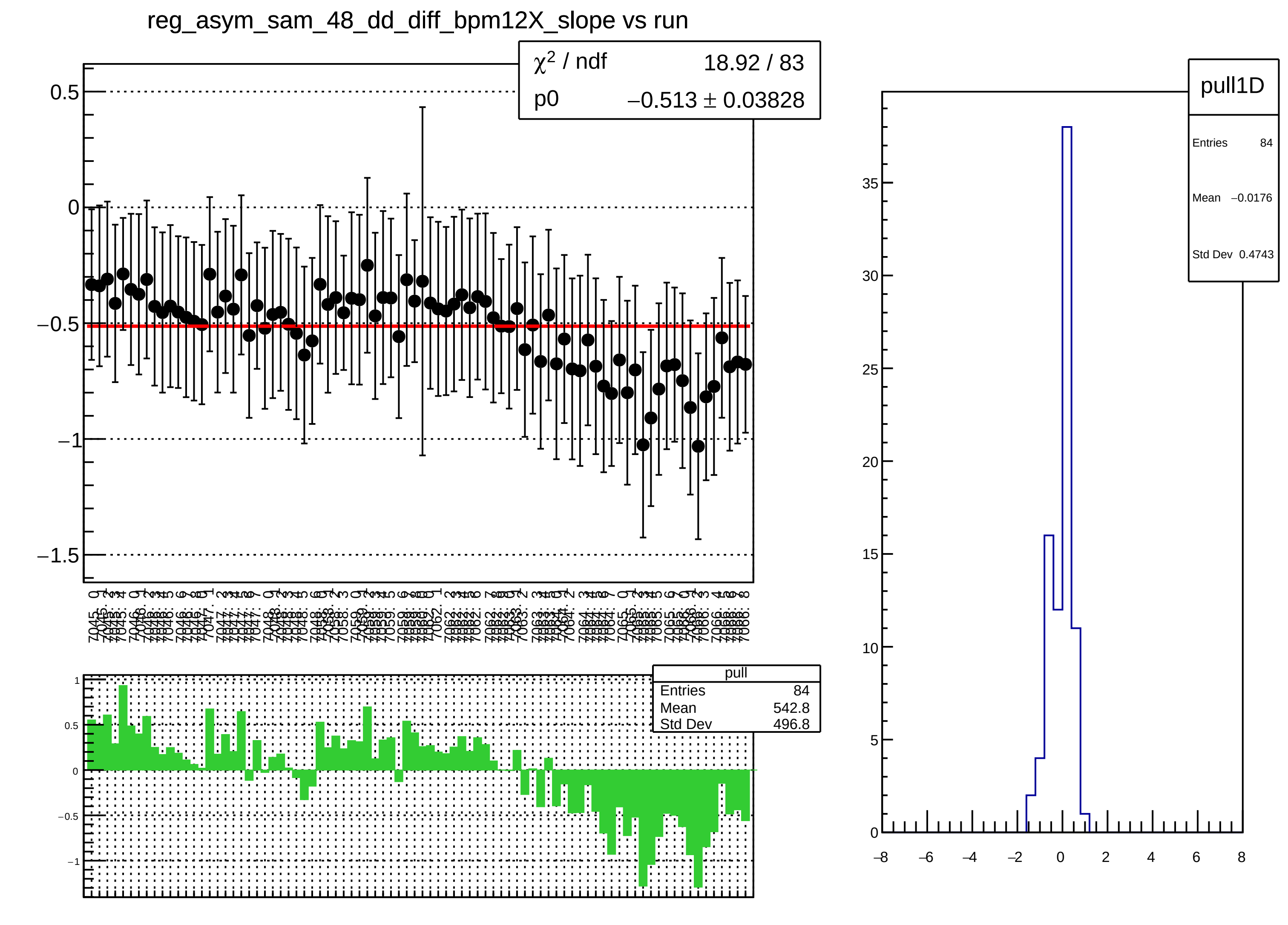


reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 109 / 83
p0 27.74 ± 0.7559
pull
Entries 84
Mean 1941
Std Dev 1896
pull1D
Entries 84
Mean 0.01152
Std Dev 1.139

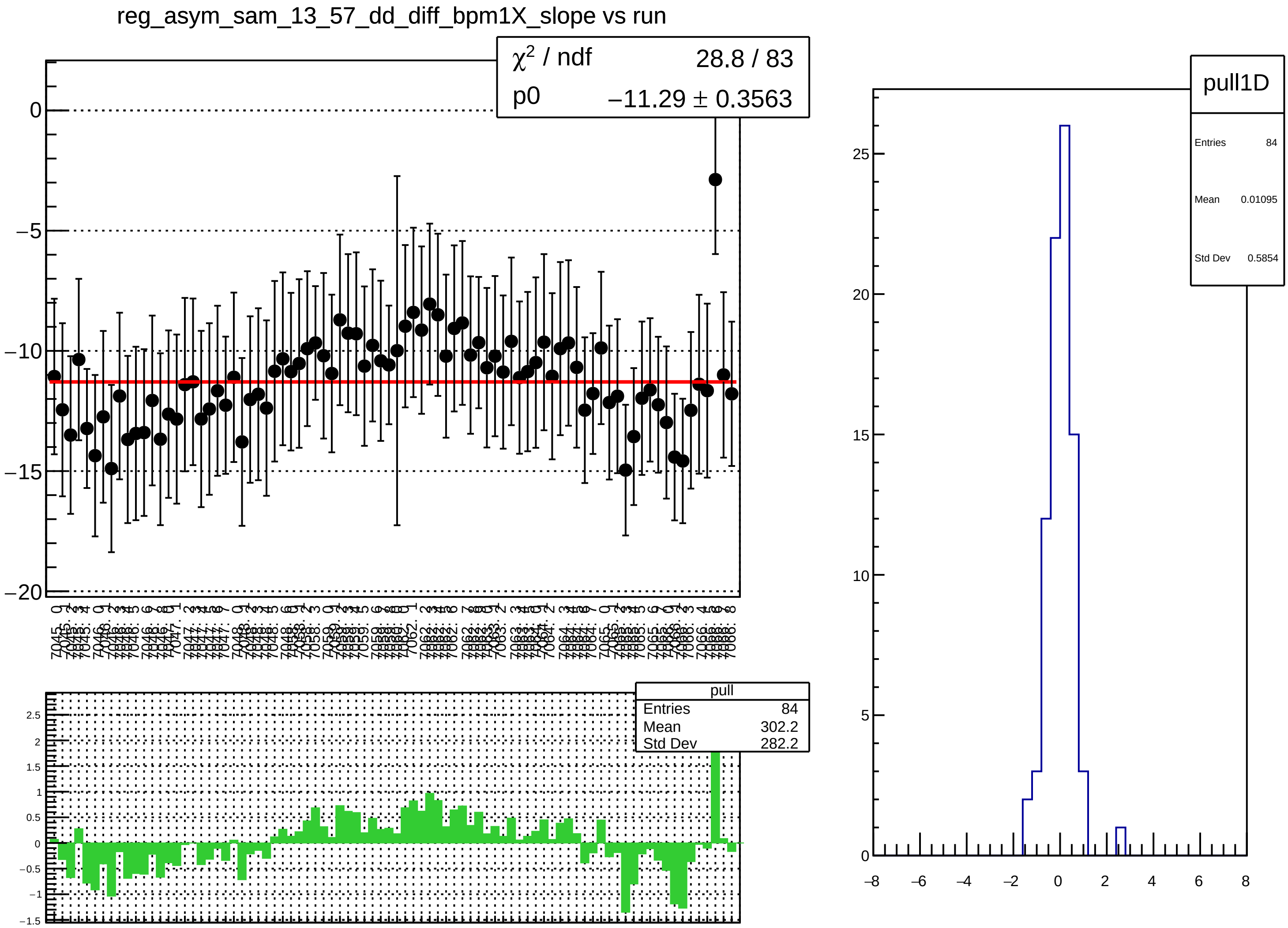


reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 181.7 / 83
p0 −39.18 ± 1.029
pull
Entries 84
Mean −386.3
Std Dev 431.8
pull1D
Entries 84
Mean −0.05823
Std Dev 1.469

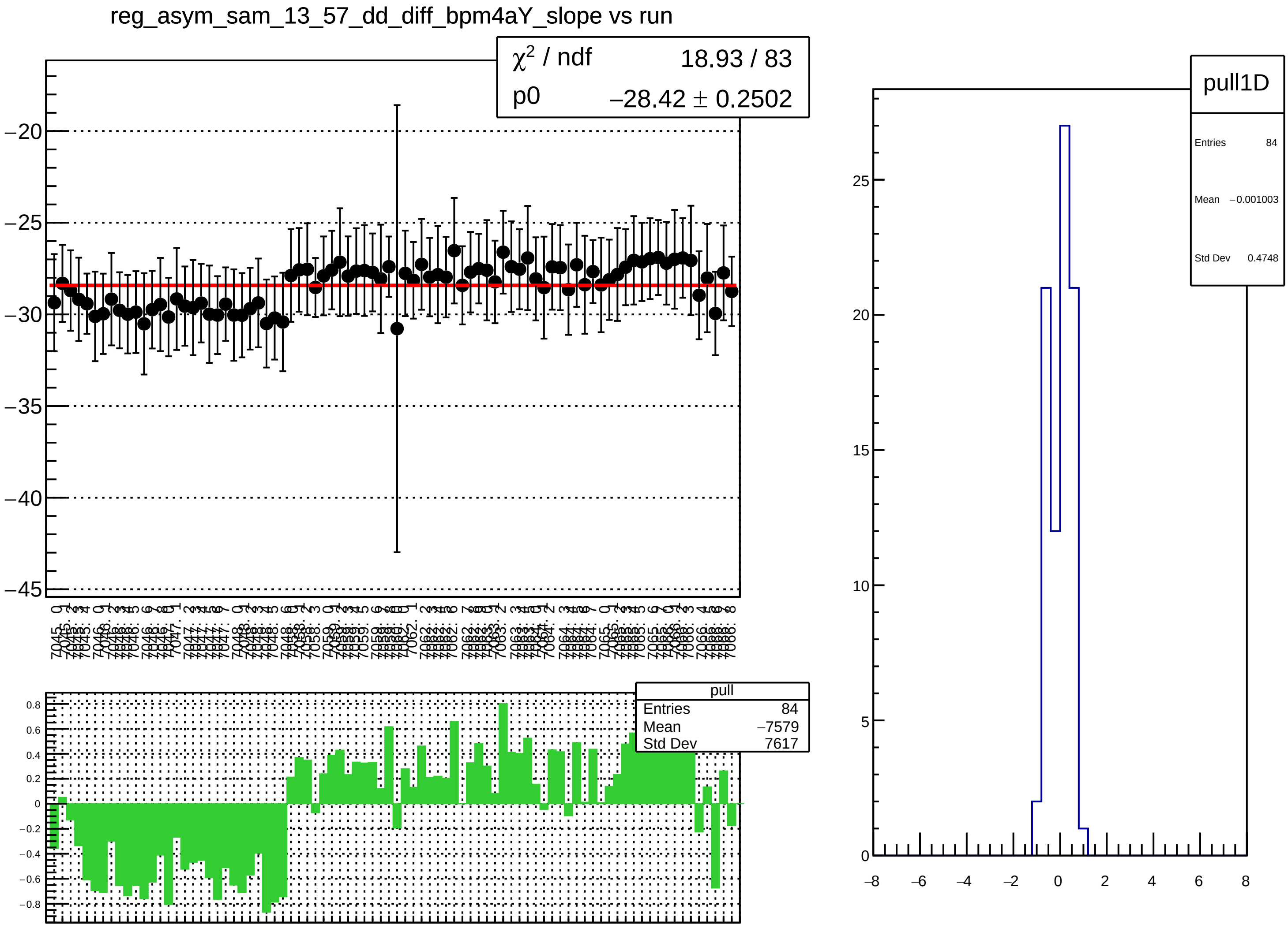

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 87.13 / 83
p0 82.81 ± 0.8064
pull
Entries 84
Mean 2693
Std Dev 2648
pull1D
Entries 84
Mean −0.007336
Std Dev 1.018



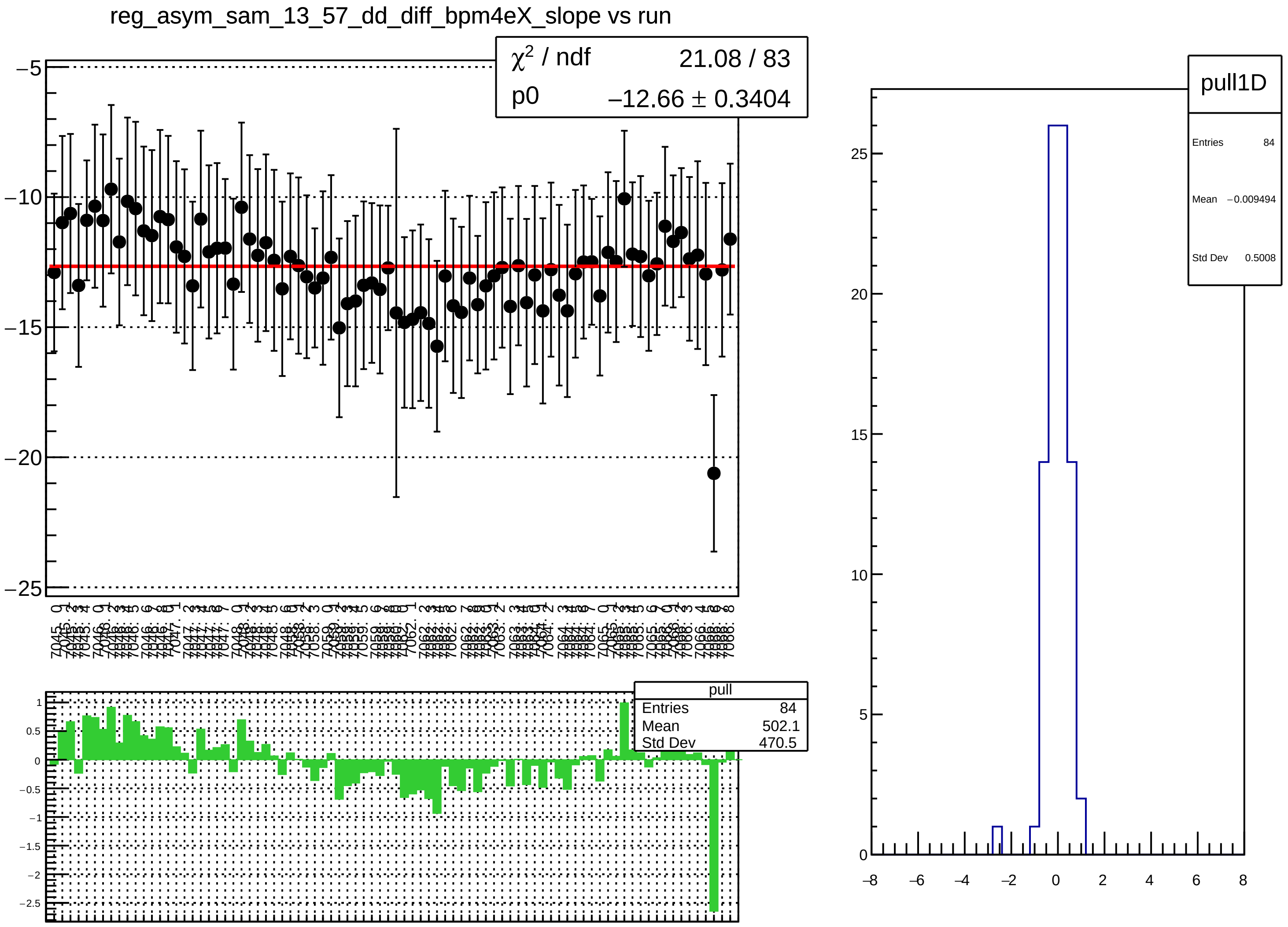
reg_asym_sam_48_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 18.92 / 83
p0 −0.513 ± 0.03828
pull
Entries 84
Mean 542.8
Std Dev 496.8
pull1D
Entries 84
Mean −0.0176
Std Dev 0.4743



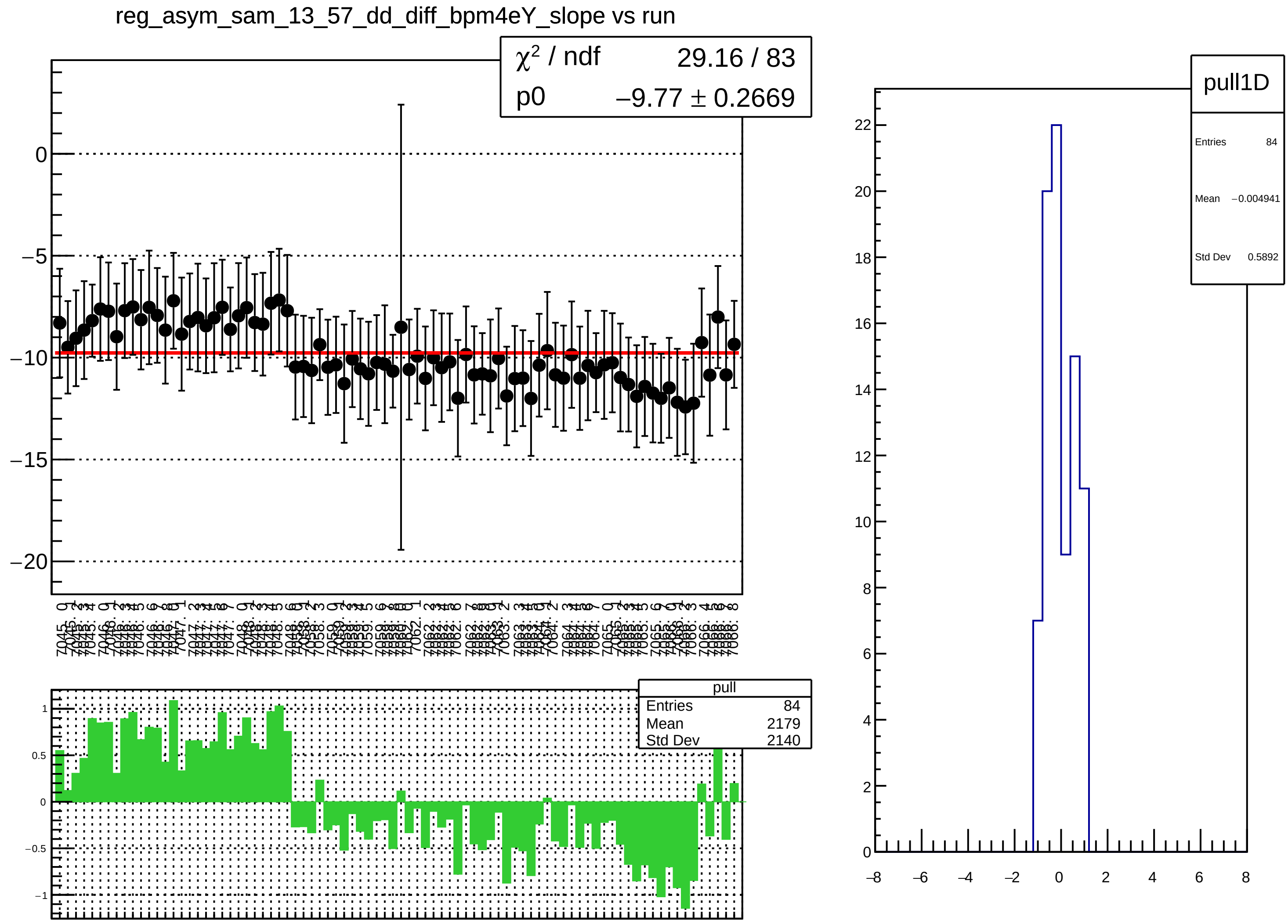
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ2 / ndf 28.8 / 83
p0 −11.29 ± 0.3563
pull
Entries 84
Mean 302.2
Std Dev 282.2
pull1D
Entries 84
Mean 0.01095
Std Dev 0.5854

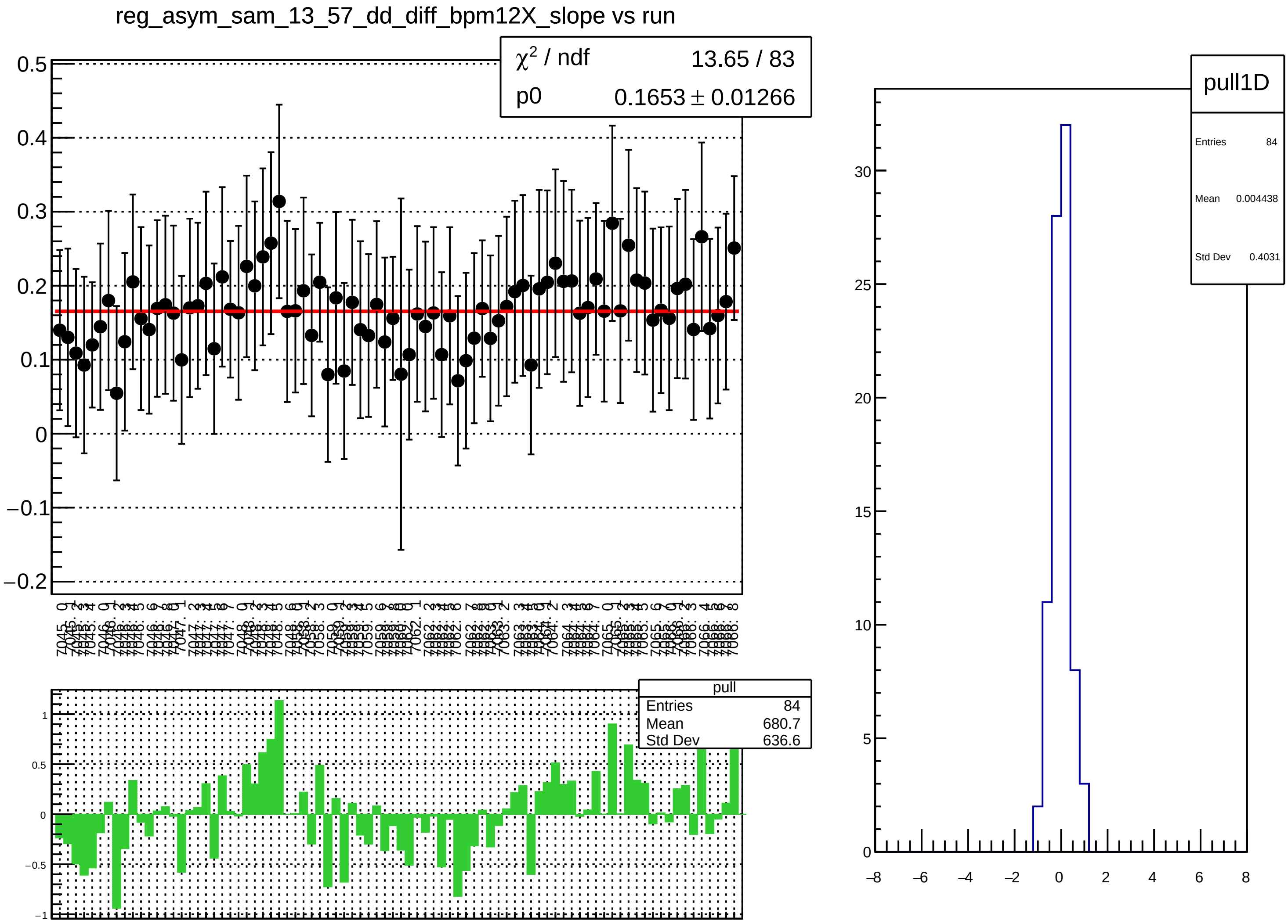


reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 18.93 / 83
p0 −28.42 ± 0.2502
pull
Entries 84
Mean −7579
Std Dev 7617
pull1D
Entries 84
Mean −0.001003
Std Dev 0.4748

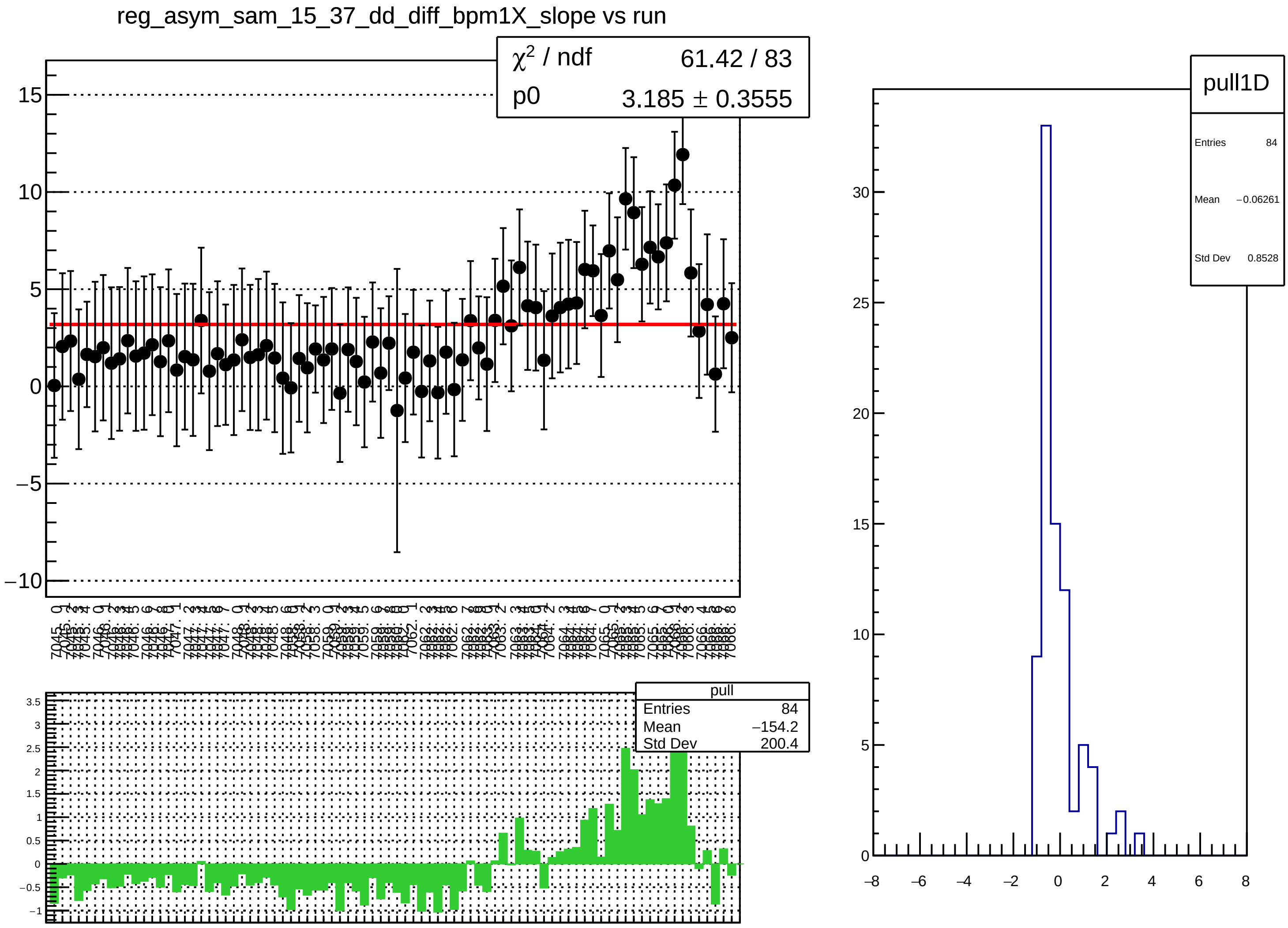


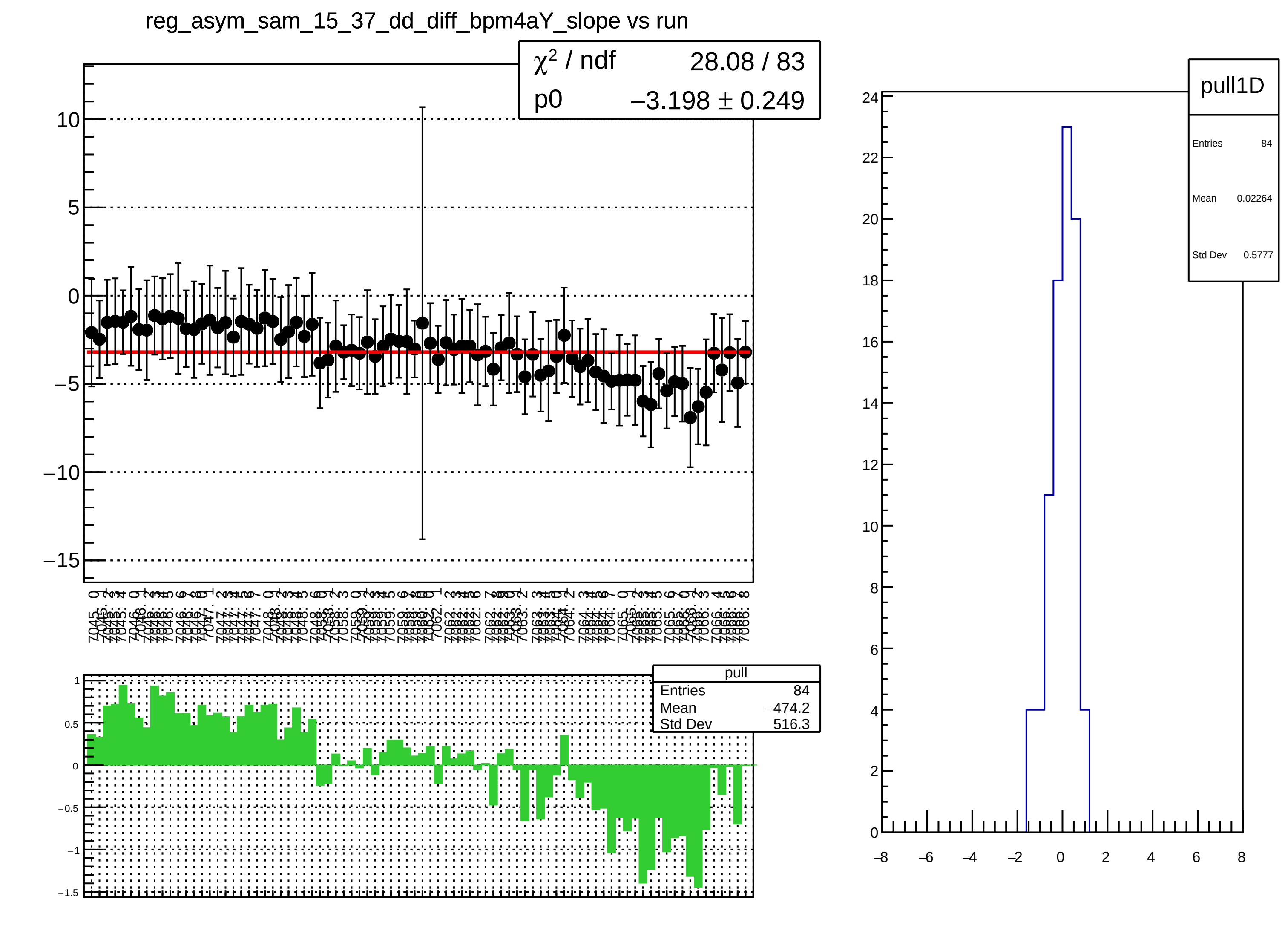
reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 21.08 / 83
p0 −12.66 ± 0.3404
pull
Entries 84
Mean 502.1
Std Dev 470.5
pull1D
Entries 84
Mean −0.009494
Std Dev 0.5008


reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 29.16 / 83
p0 −9.77 ± 0.2669
pull
Entries 84
Mean 2179
Std Dev 2140
pull1D
Entries 84
Mean −0.004941
Std Dev 0.5892

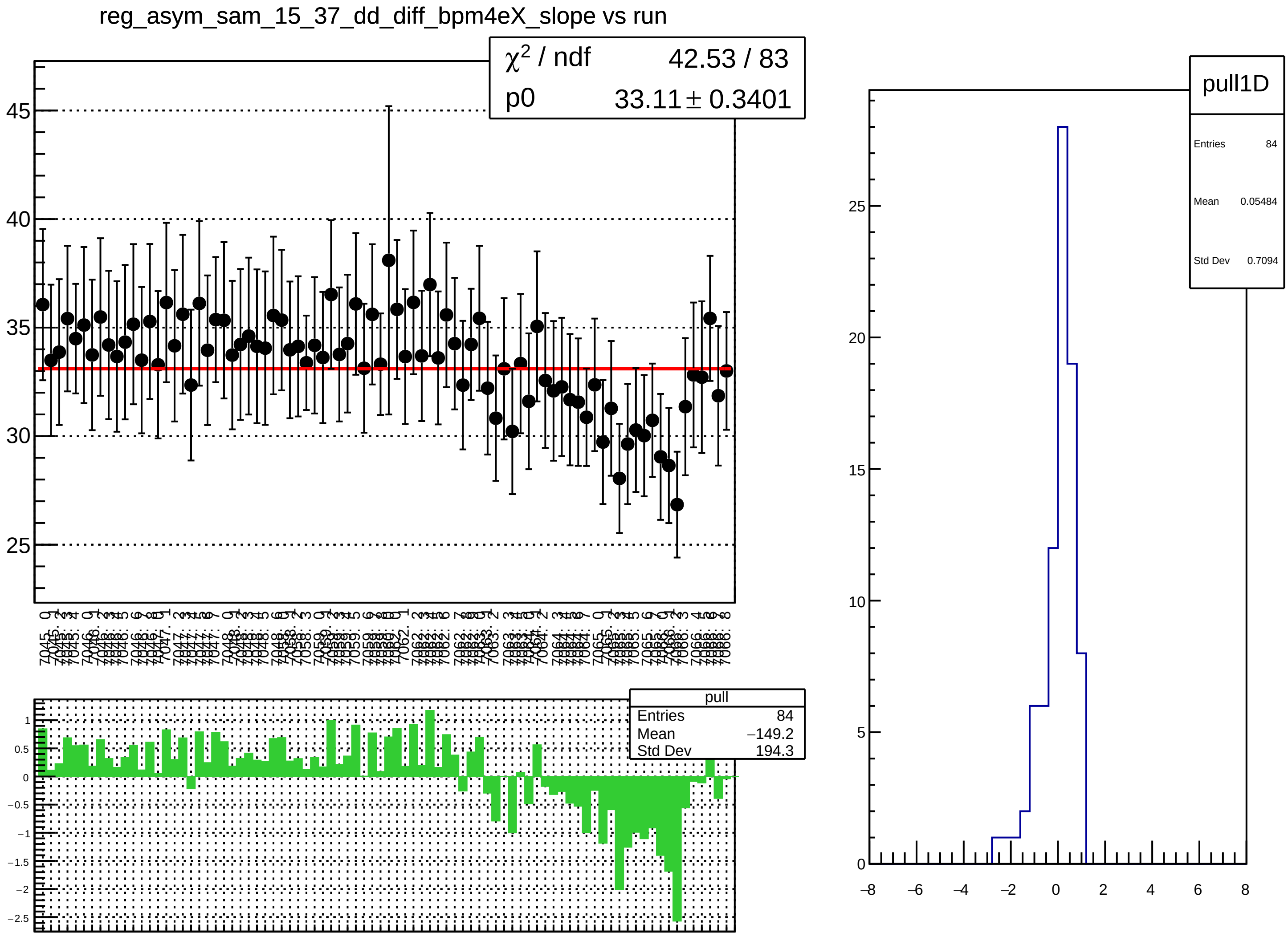


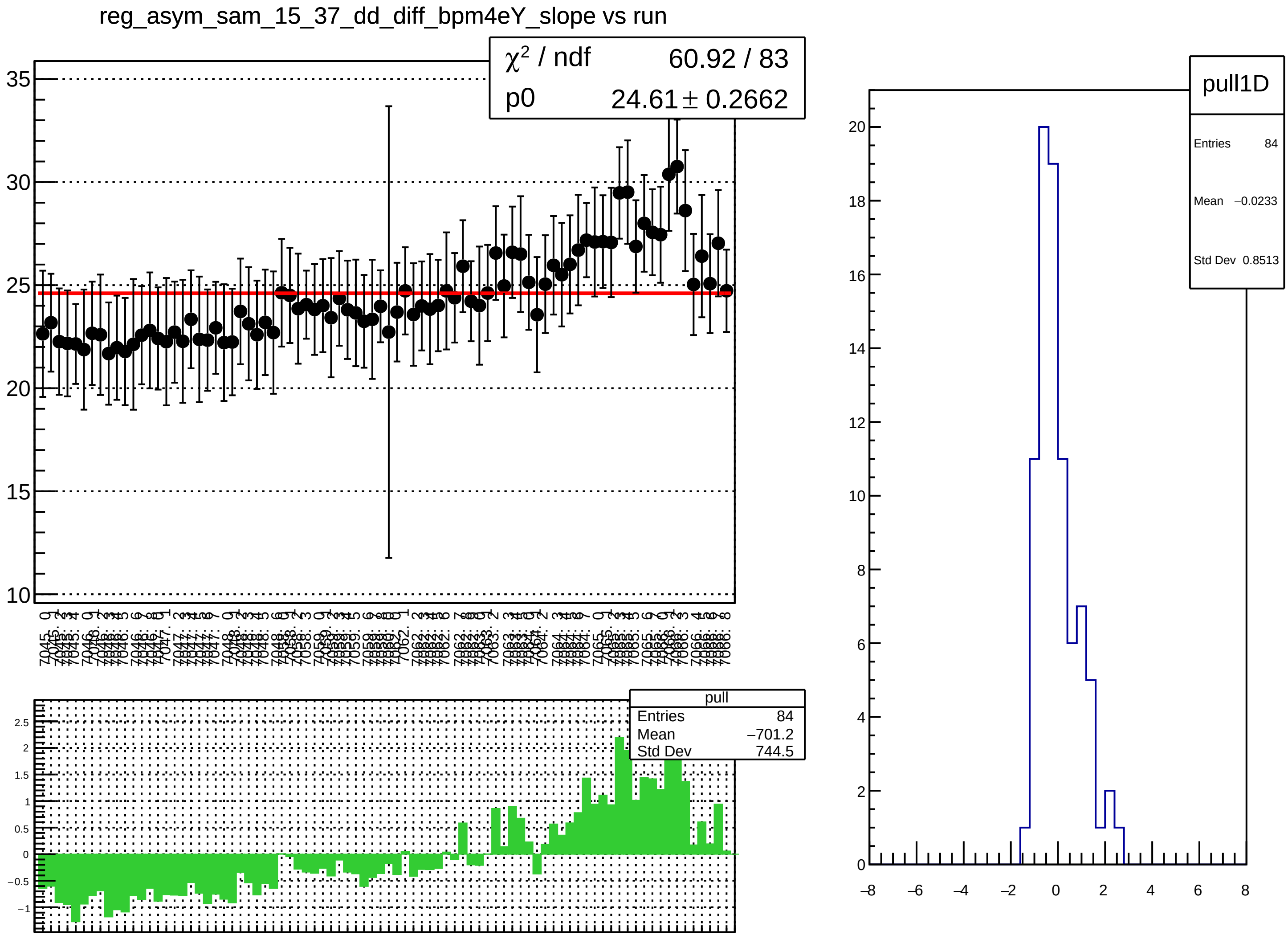
reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 13.65 / 83
p0 0.1653 ± 0.01266
pull
Entries 84
Mean 680.7
Std Dev 636.6
pull1D
Entries 84
Mean 0.004438
Std Dev 0.4031


reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 61.42 / 83
p0 3.185 ± 0.3555
pull
Entries 84
Mean −154.2
Std Dev 200.4
pull1D
Entries 84
Mean −0.06261
Std Dev 0.8528

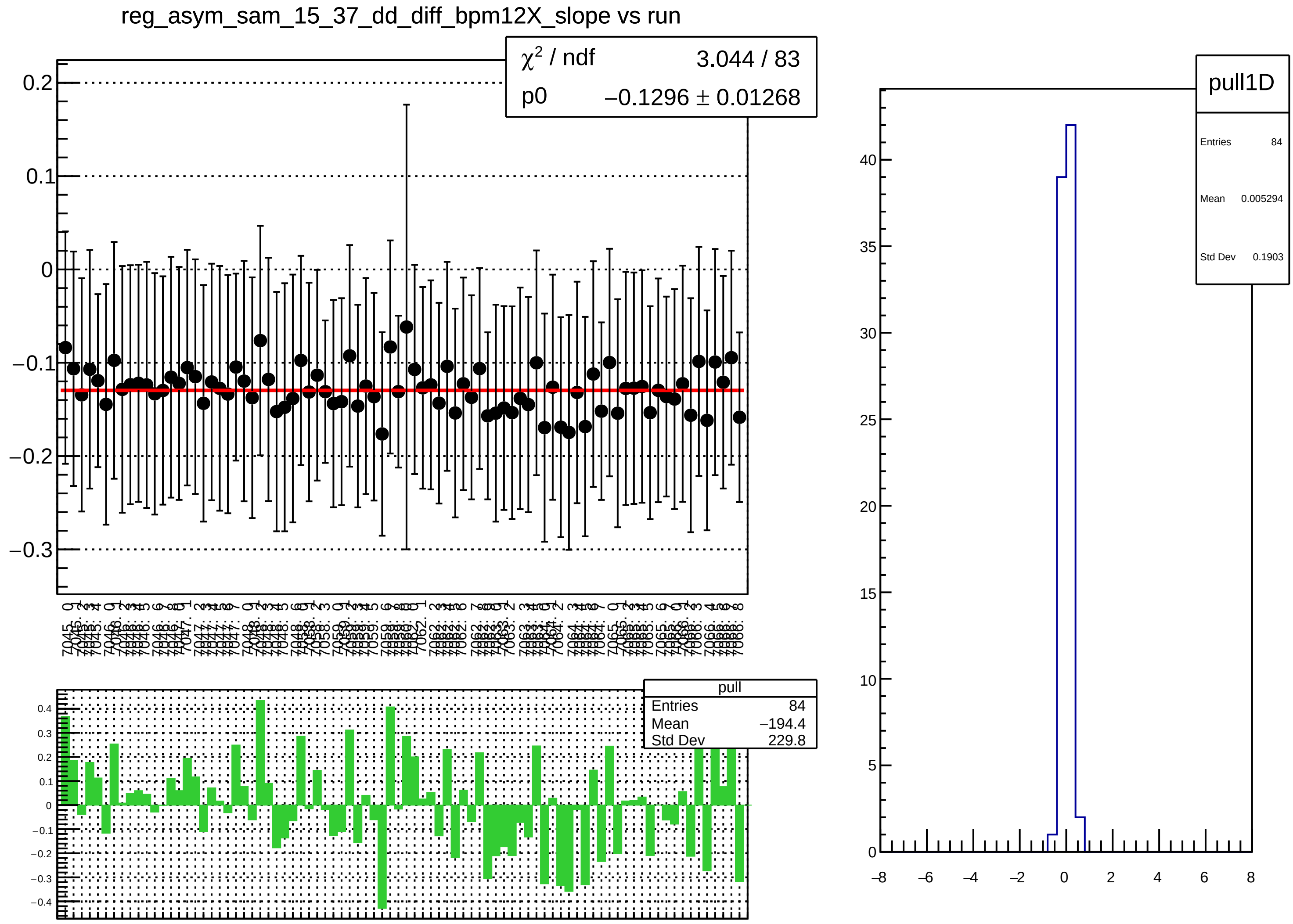


reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 28.08 / 83
p0 −3.198 ± 0.249
pull
Entries 84
Mean −474.2
Std Dev 516.3
pull1D
Entries 84
Mean 0.02264
Std Dev 0.5777

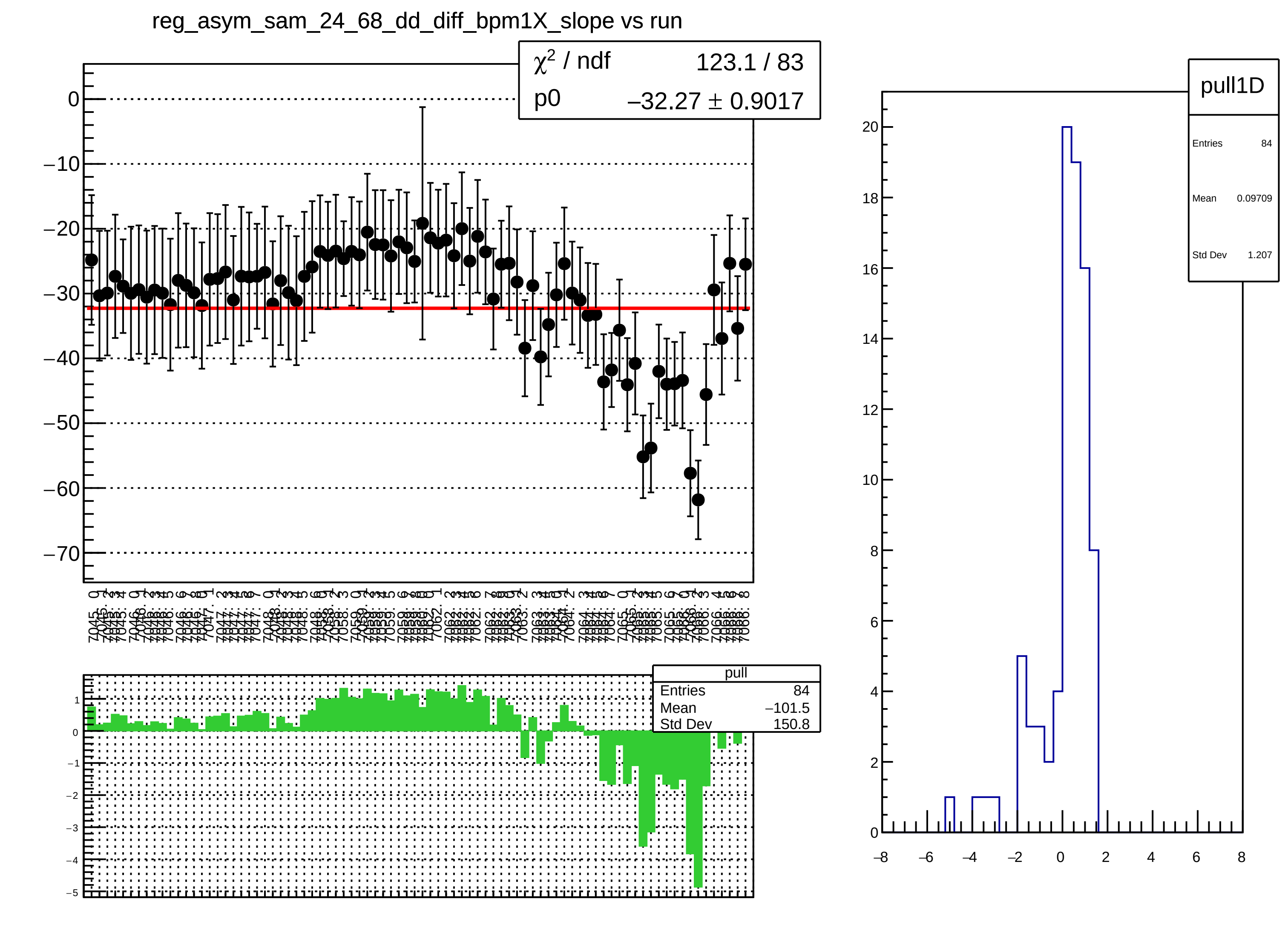

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 42.53 / 83
p0 33.11 ± 0.3401
pull
Entries 84
Mean −149.2
Std Dev 194.3
pull1D
Entries 84
Mean 0.05484
Std Dev 0.7094



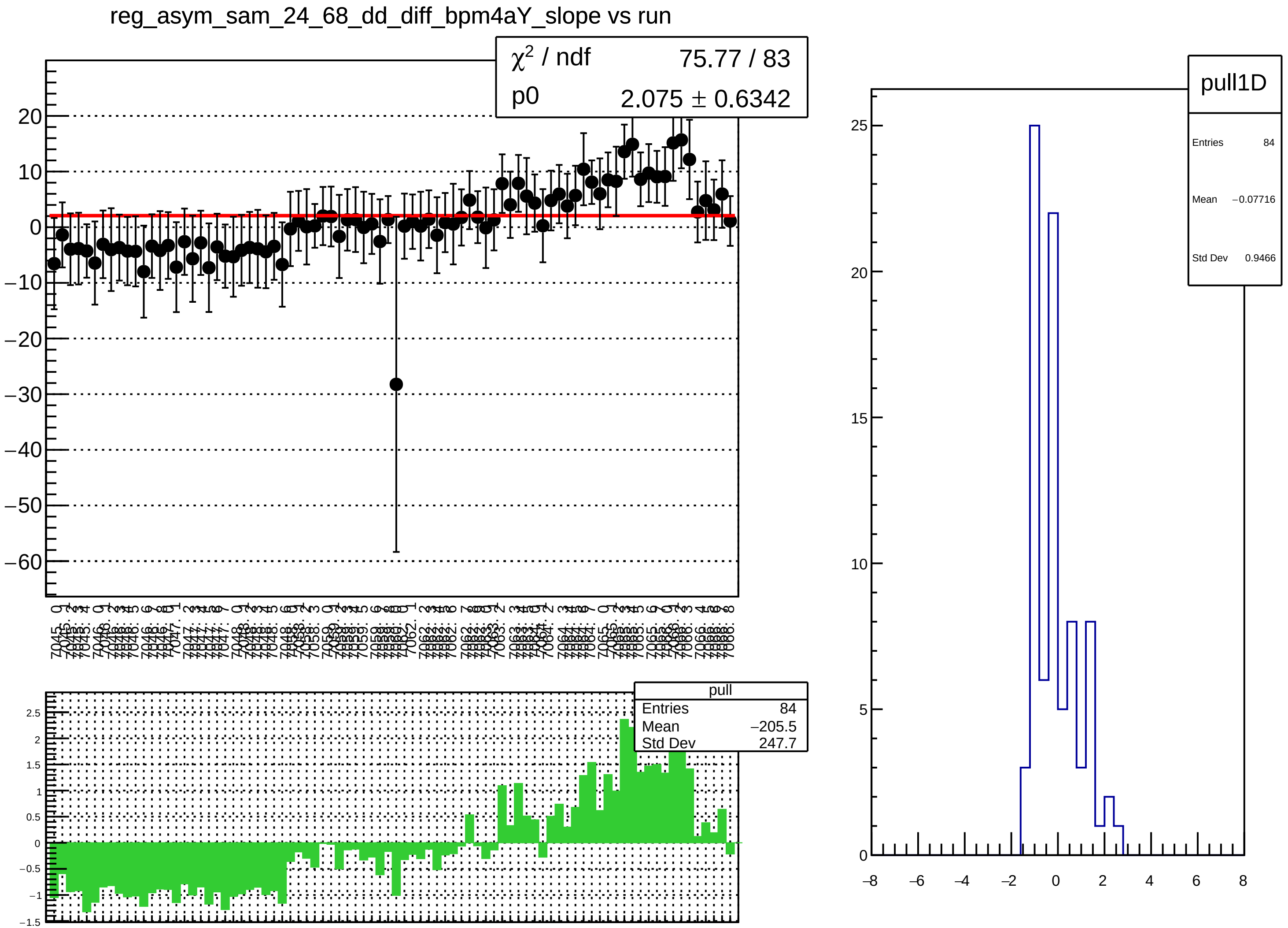
reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ2 / ndf 60.92 / 83
p0 24.61 ± 0.2662
pull
Entries 84
Mean −701.2
Std Dev 744.5
pull1D
Entries 84
Mean −0.0233
Std Dev 0.8513



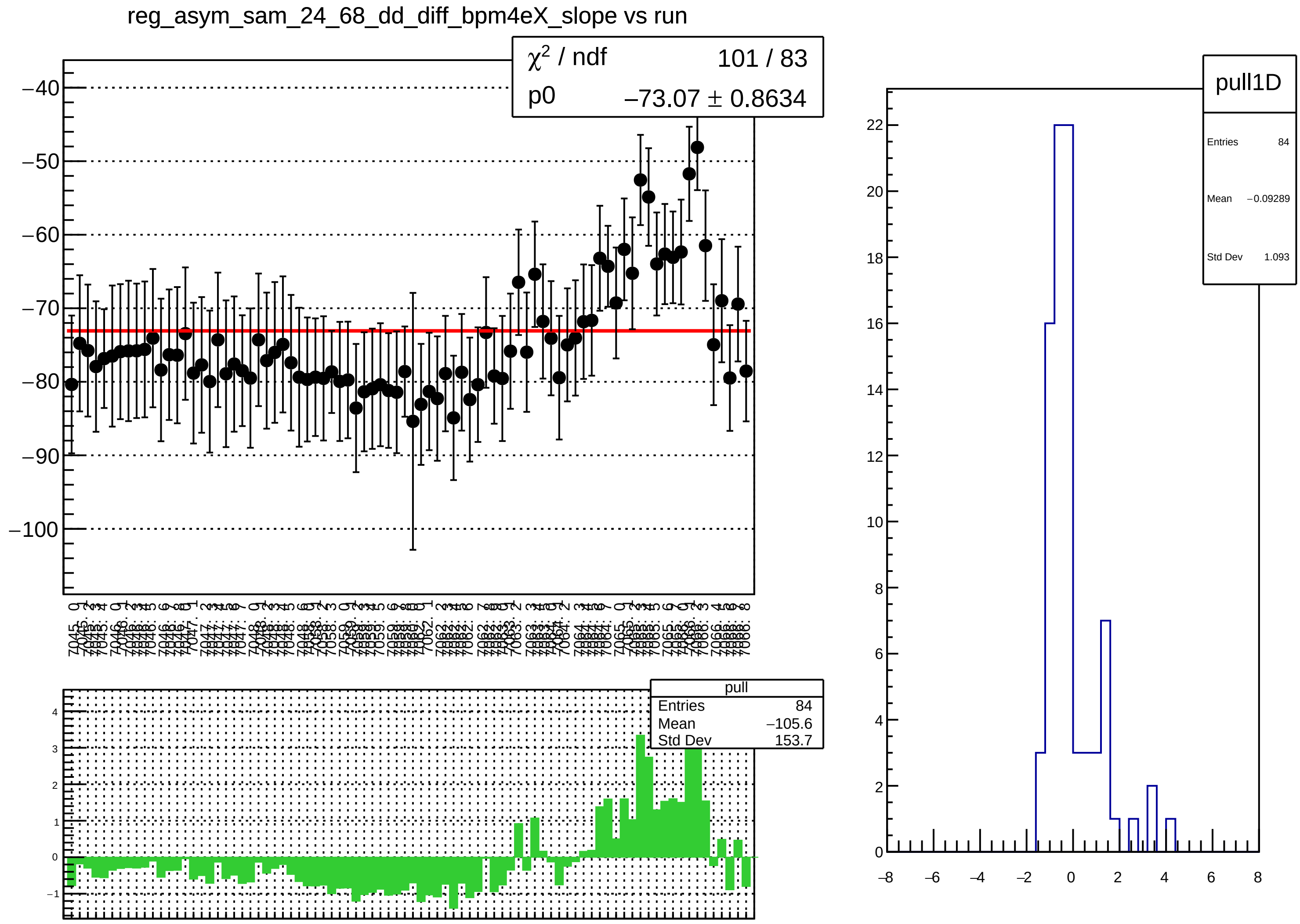
reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 3.044 / 83
p0 −0.1296 ± 0.01268
pull
Entries 84
Mean −194.4
Std Dev 229.8
pull1D
Entries 84
Mean 0.005294
Std Dev 0.1903



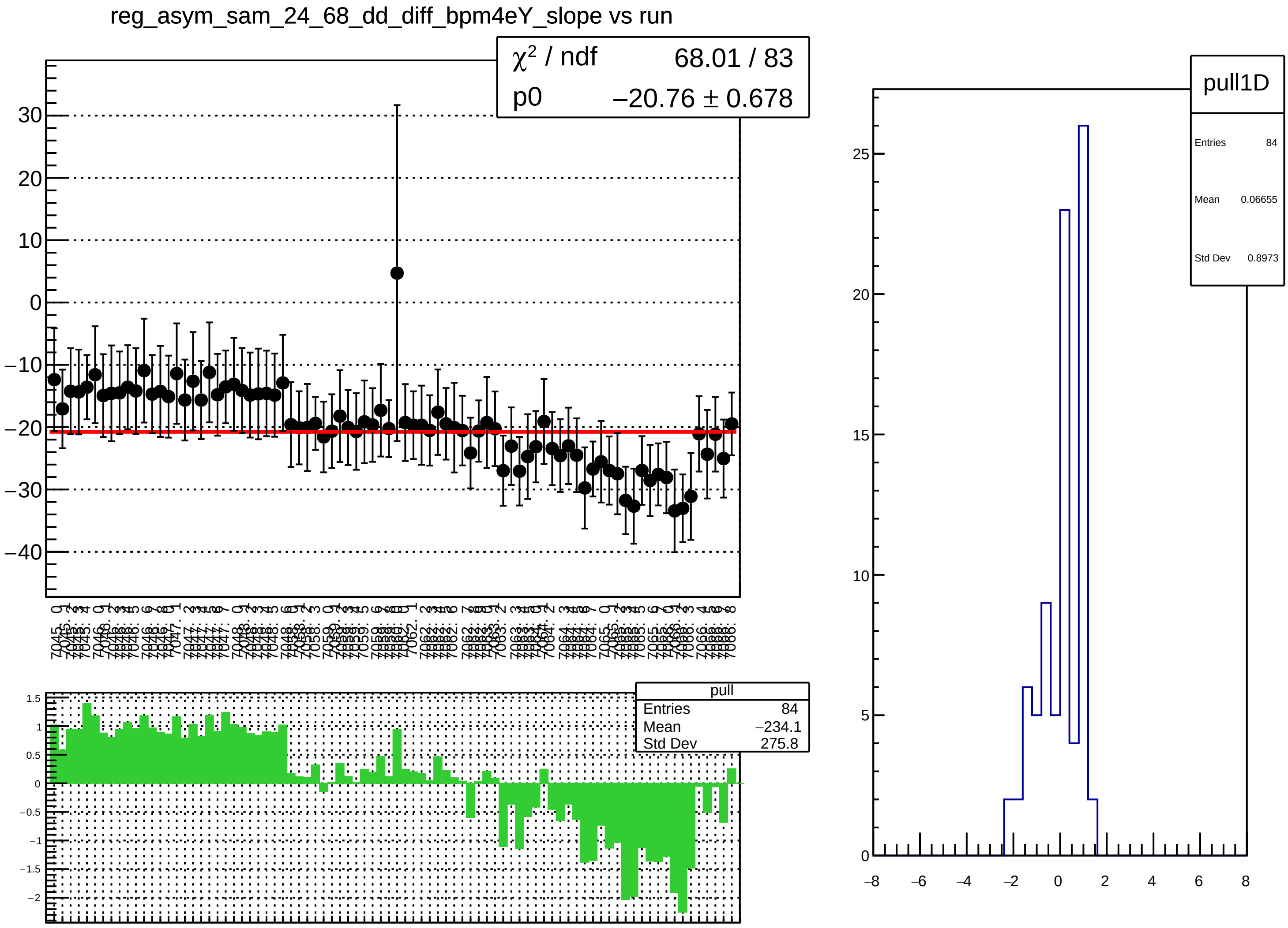
reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 123.1 / 83
p0 −32.27 ± 0.9017
pull
Entries 84
Mean −101.5
Std Dev 150.8
pull1D
Entries 84
Mean 0.09709
Std Dev 1.207



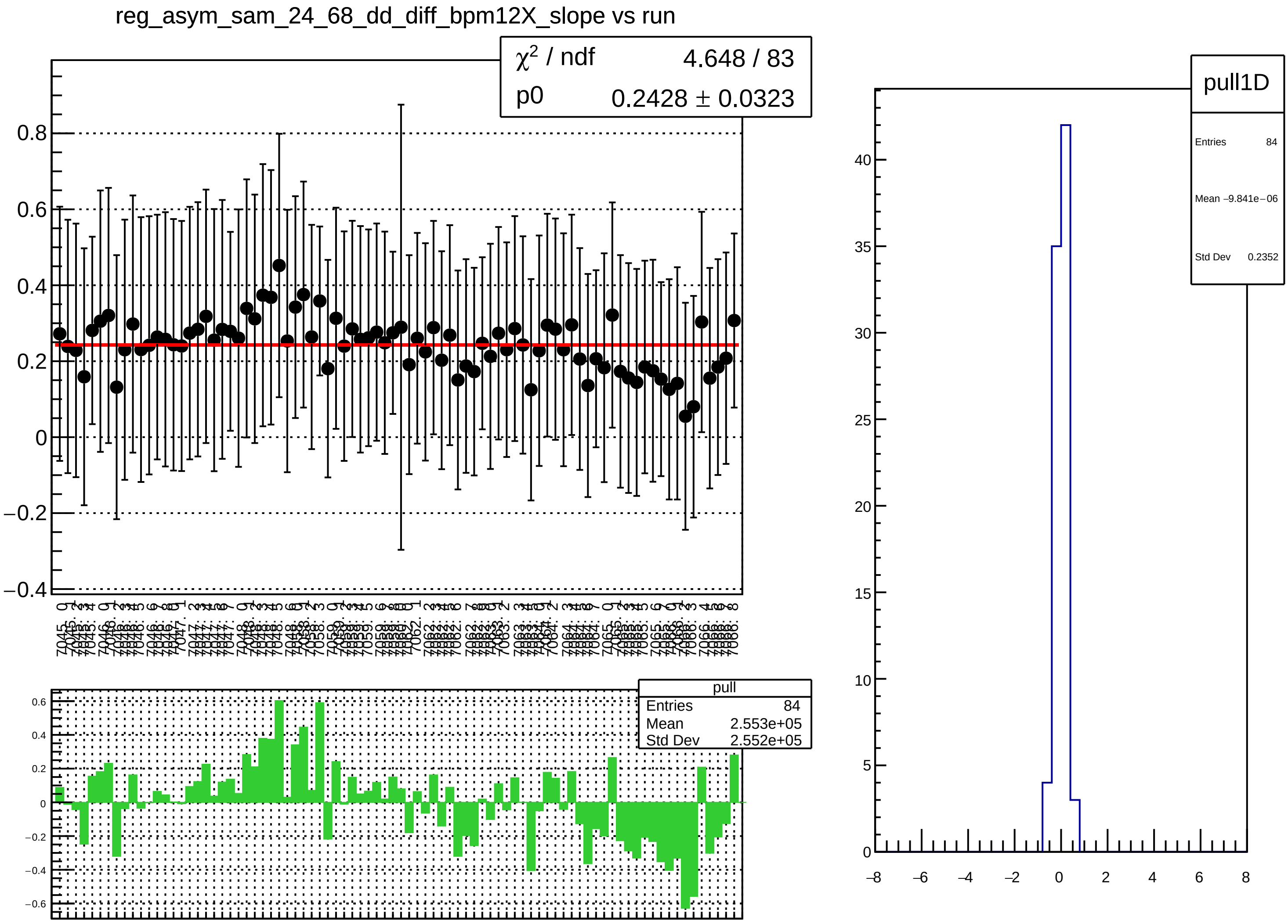
reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 75.77 / 83
p0 2.075 ± 0.6342
pull
Entries 84
Mean −205.5
Std Dev 247.7
pull1D
Entries 84
Mean −0.07716
Std Dev 0.9466

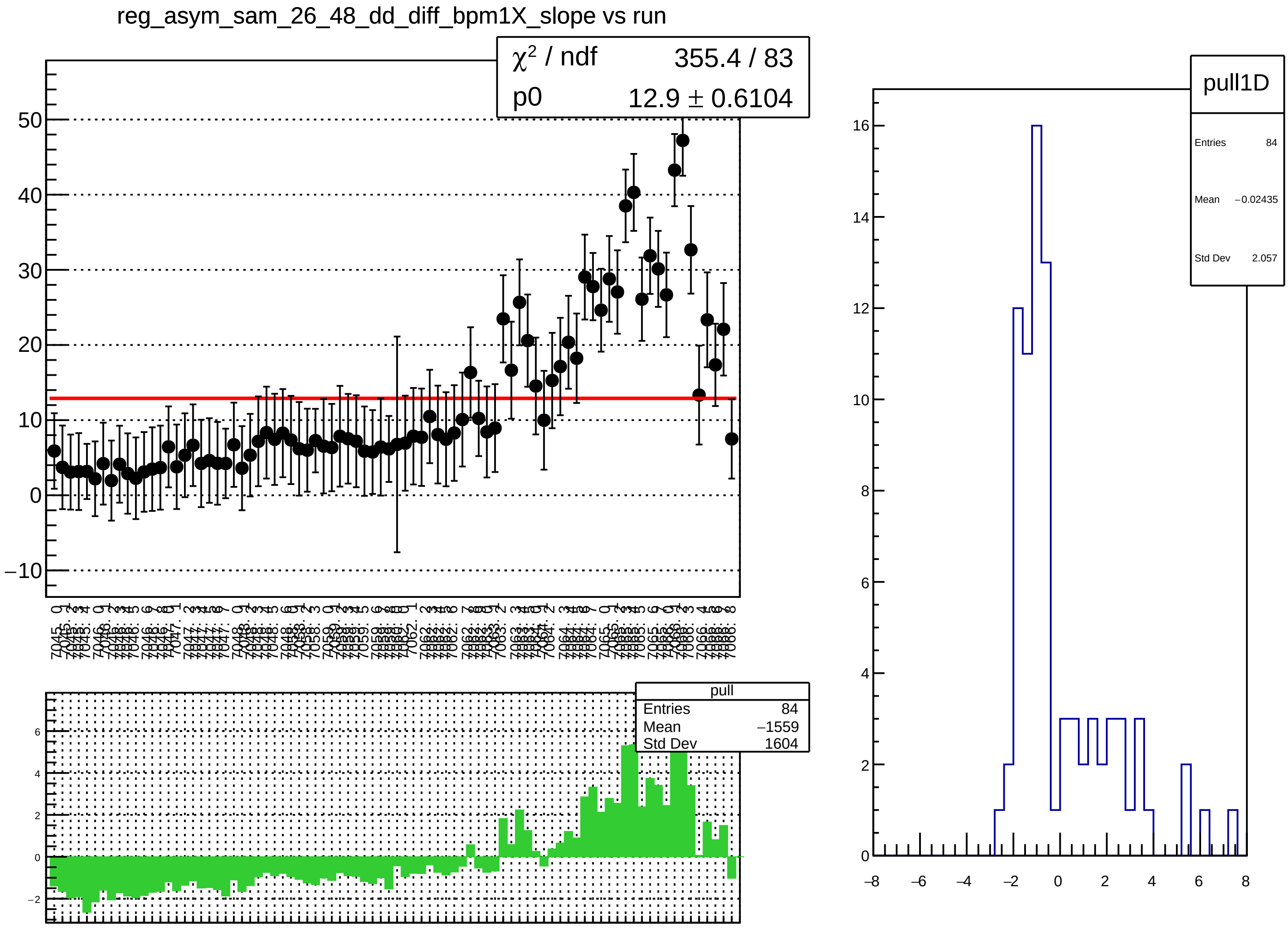


reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 101 / 83
p0 −73.07 ± 0.8634
pull
Entries 84
Mean −105.6
Std Dev 153.7
pull1D
Entries 84
Mean −0.09289
Std Dev 1.093

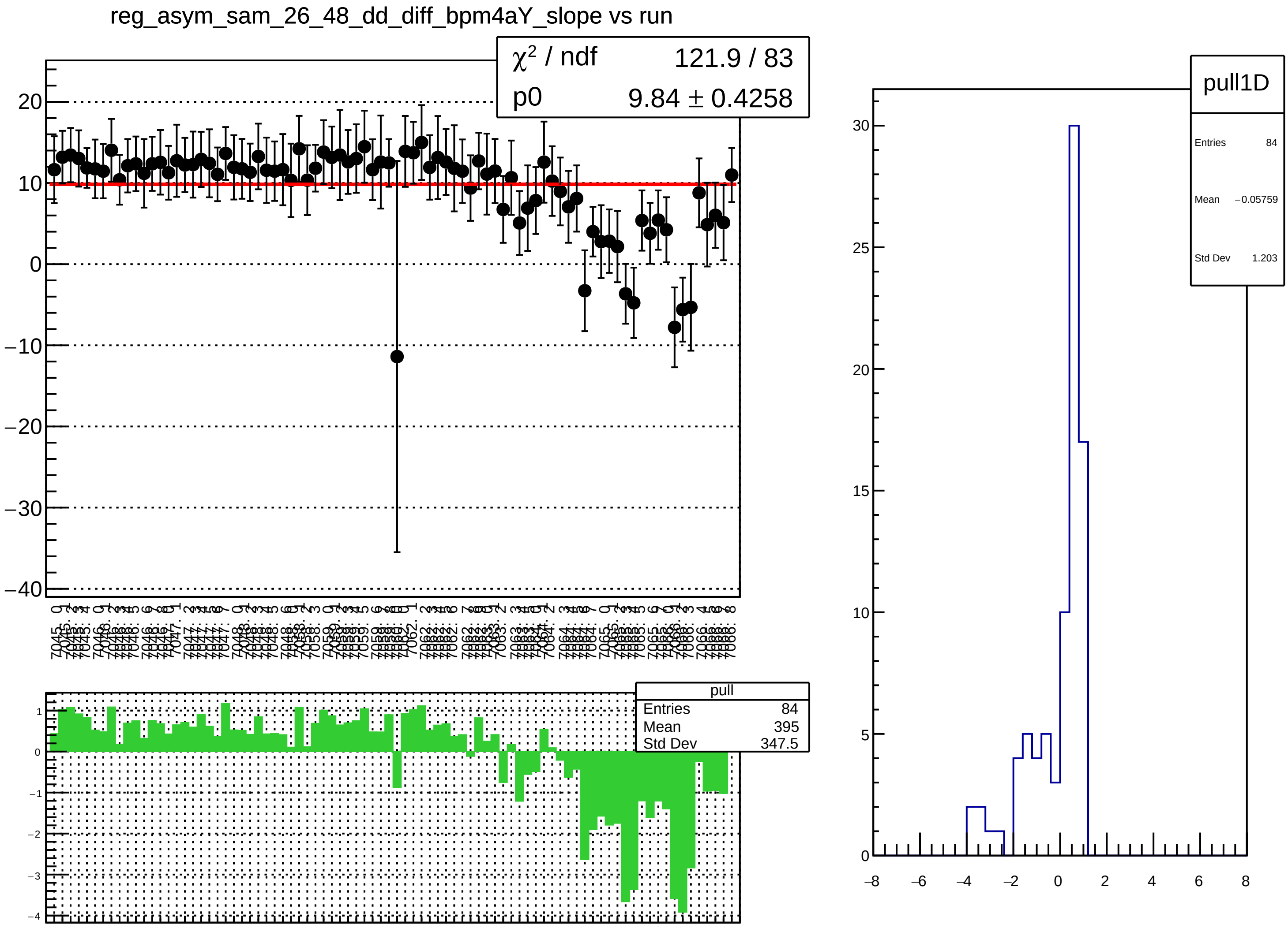


reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 68.01 / 83
p0 −20.76 ± 0.678
pull
Entries 84
Mean −234.1
Std Dev 275.8
pull1D
Entries 84
Mean 0.06655
Std Dev 0.8973

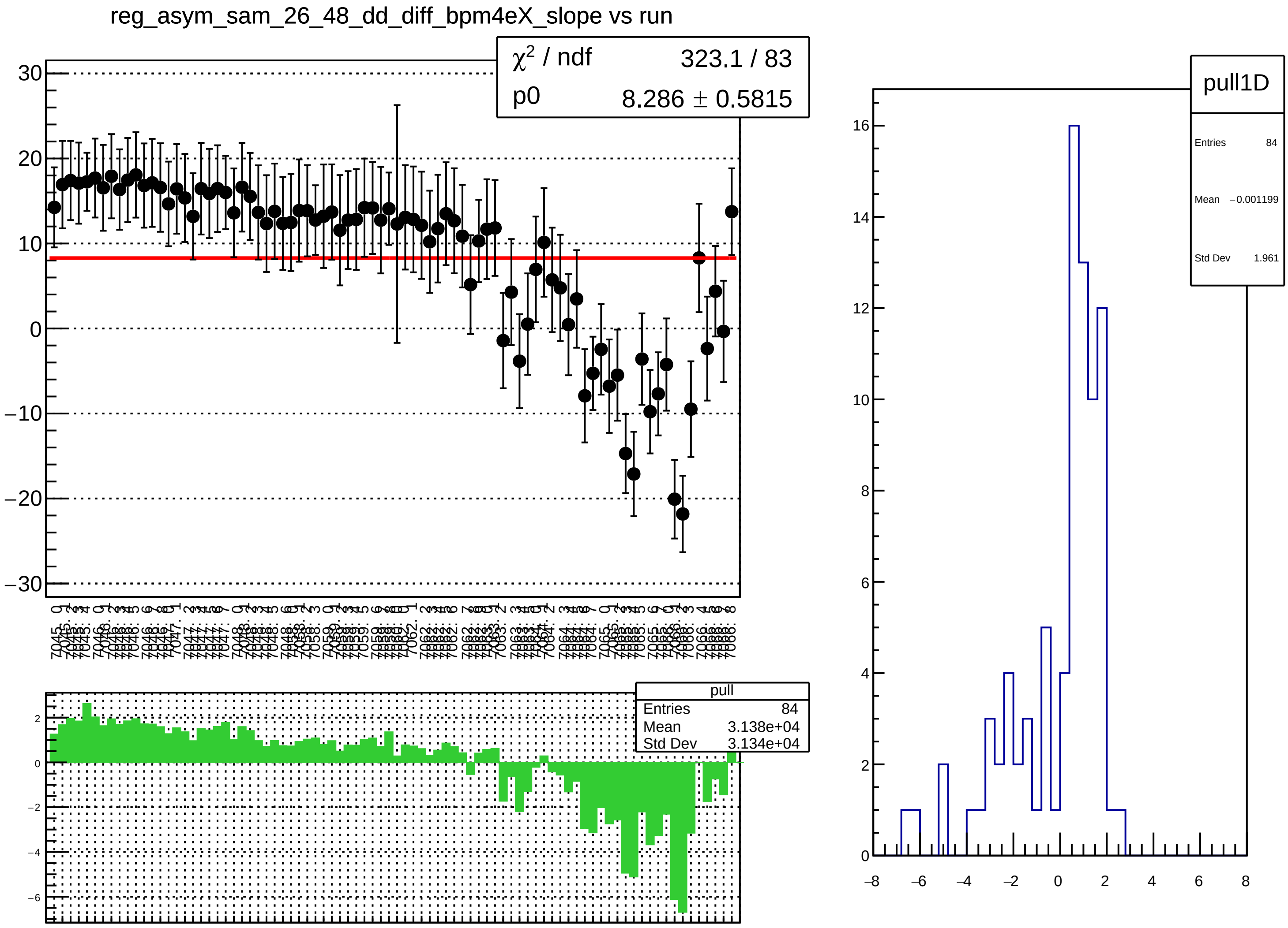

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 4.648 / 83
p0 0.2428 ± 0.0323
pull
Entries 84
Mean 2.553e+05
Std Dev 2.552e+05
pull1D
Entries 84
Mean −9.841e−06
Std Dev 0.2352



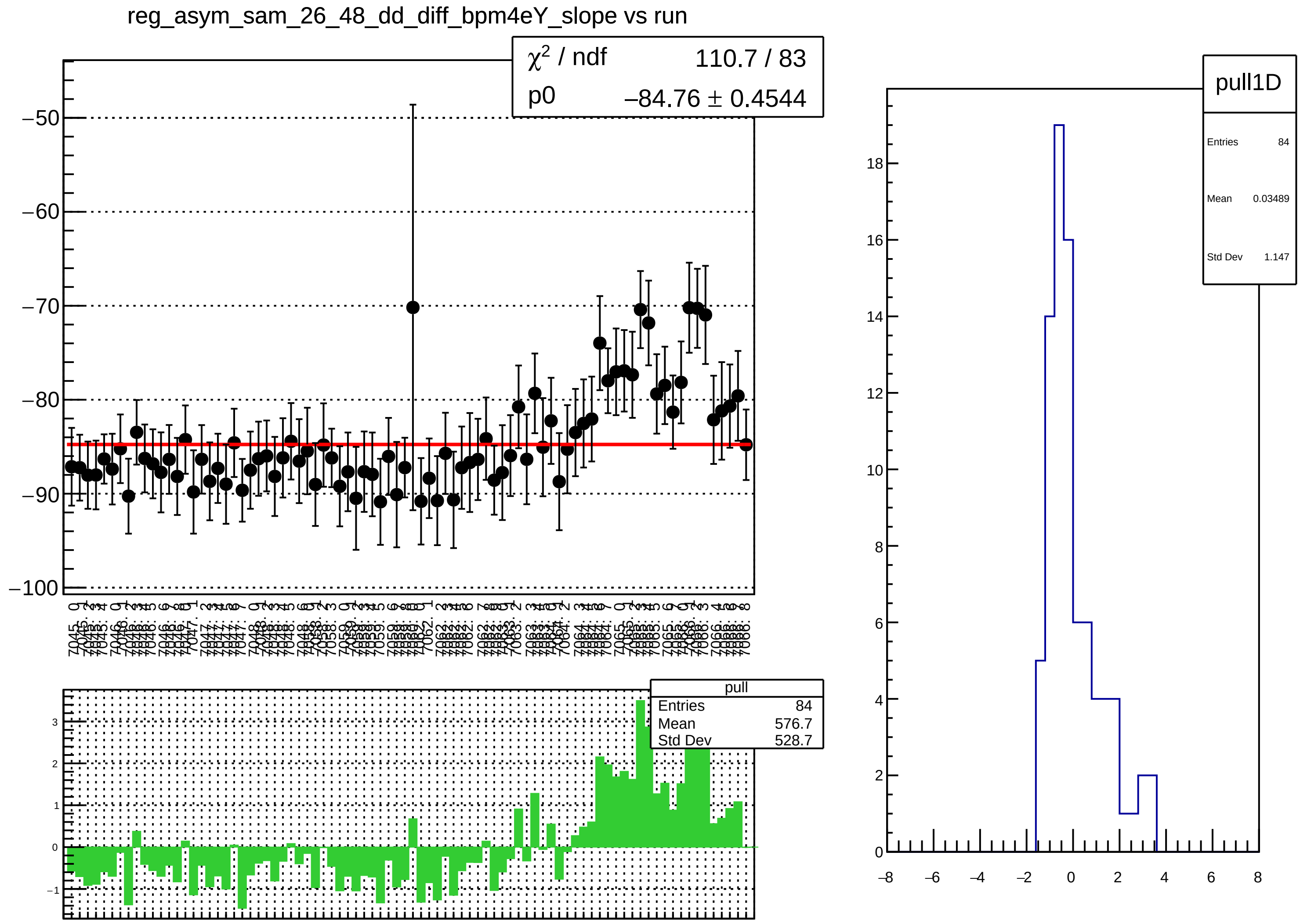
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 355.4 / 83
p0 12.9 ± 0.6104
pull
Entries 84
Mean −1559
Std Dev 1604
pull1D
Entries 84
Mean −0.02435
Std Dev 2.057



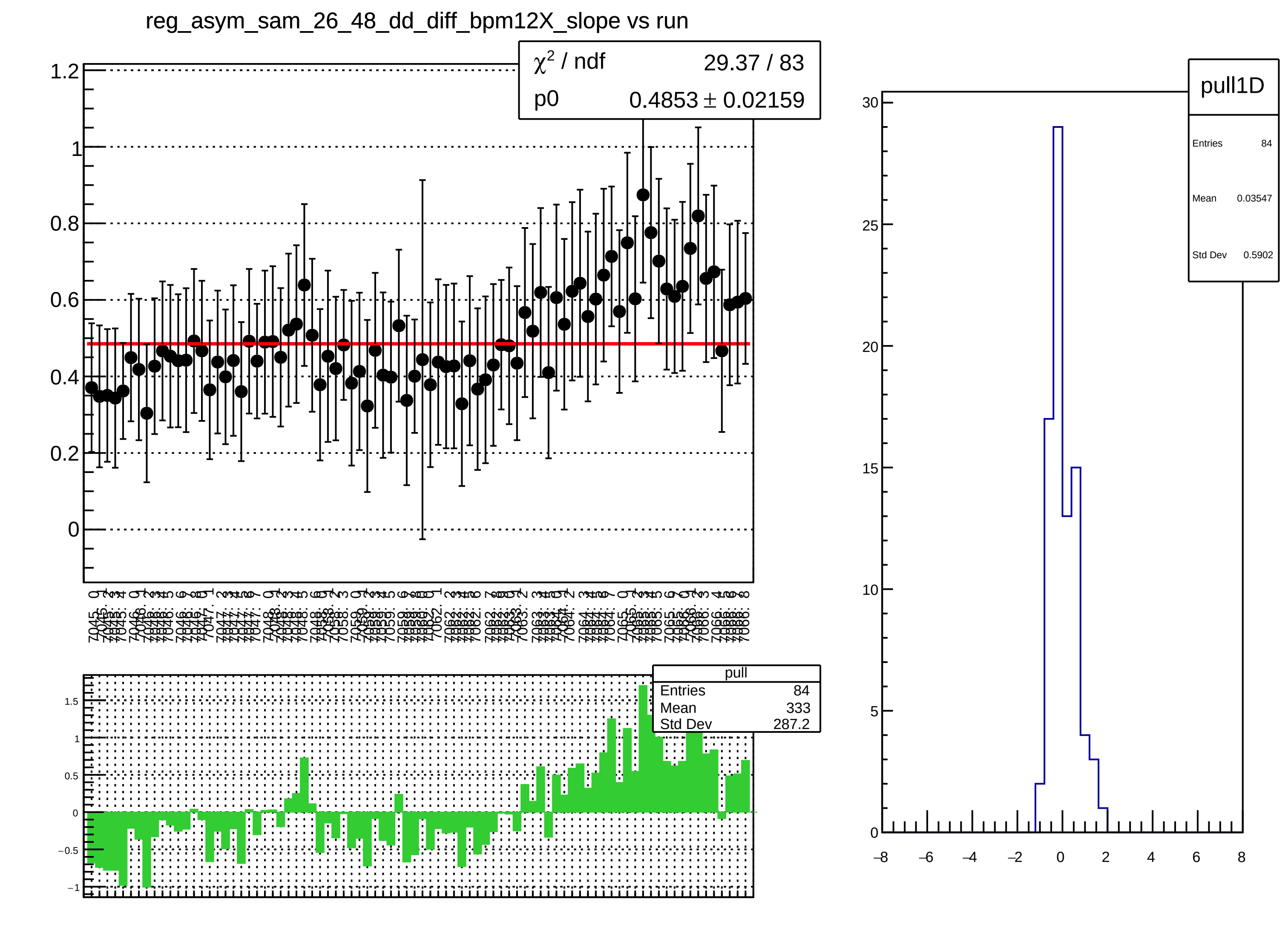
reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ2 / ndf 121.9 / 83
p0 9.84 ± 0.4258
pull
Entries 84
Mean 395
Std Dev 347.5
pull1D
Entries 84
Mean −0.05759
Std Dev 1.203



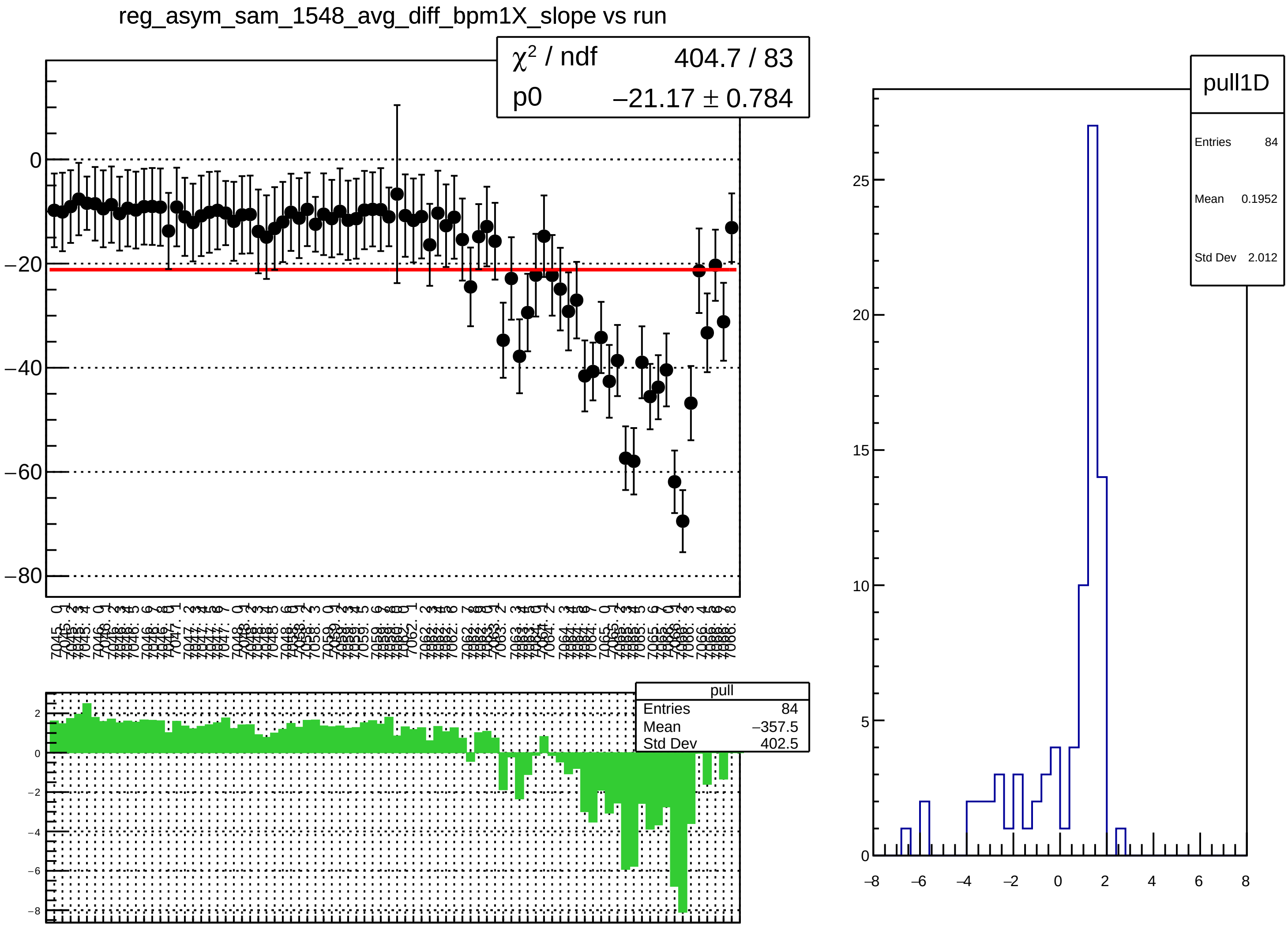
reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 323.1 / 83
p0 8.286 ± 0.5815
pull
Entries 84
Mean 3.138e+04
Std Dev 3.134e+04
pull1D
Entries 84
Mean −0.001199
Std Dev 1.961



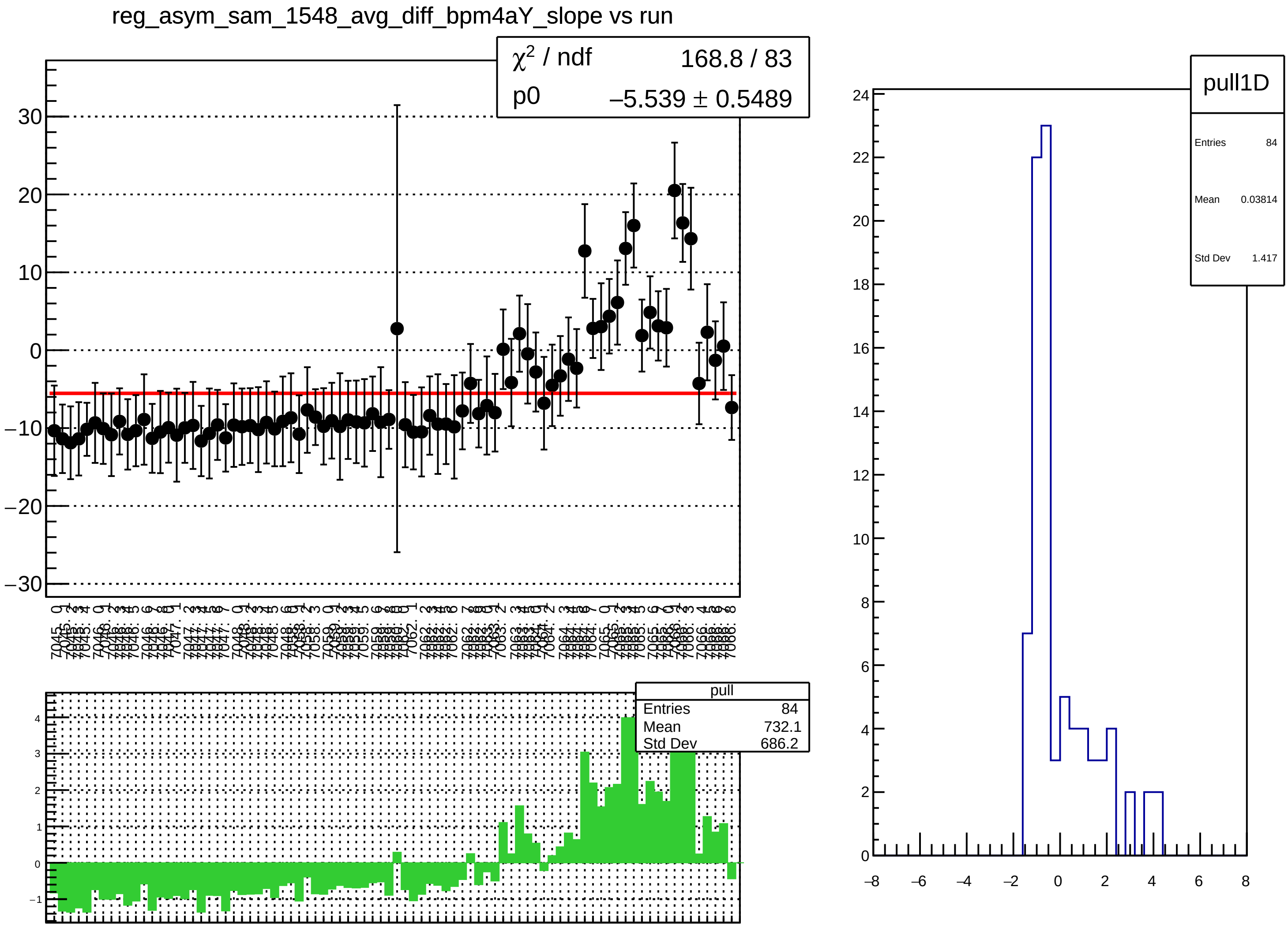
reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ2 / ndf 110.7 / 83
p0 −84.76 ± 0.4544
pull
Entries 84
Mean 576.7
Std Dev 528.7
pull1D
Entries 84
Mean 0.03489
Std Dev 1.147



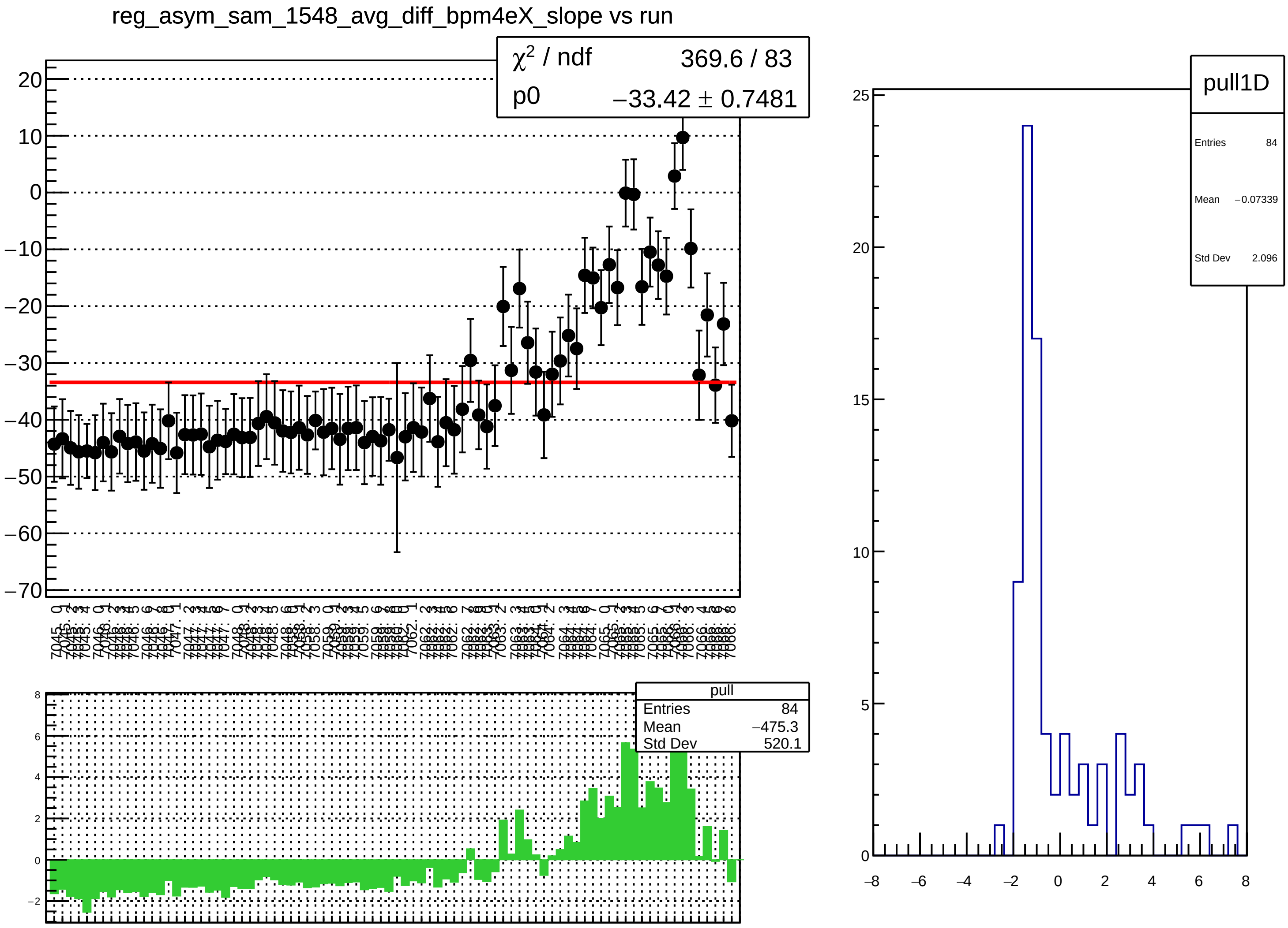
reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 29.37 / 83
p0 0.4853 ± 0.02159
pull
Entries 84
Mean 333
Std Dev 287.2
pull1D
Entries 84
Mean 0.03547
Std Dev 0.5902



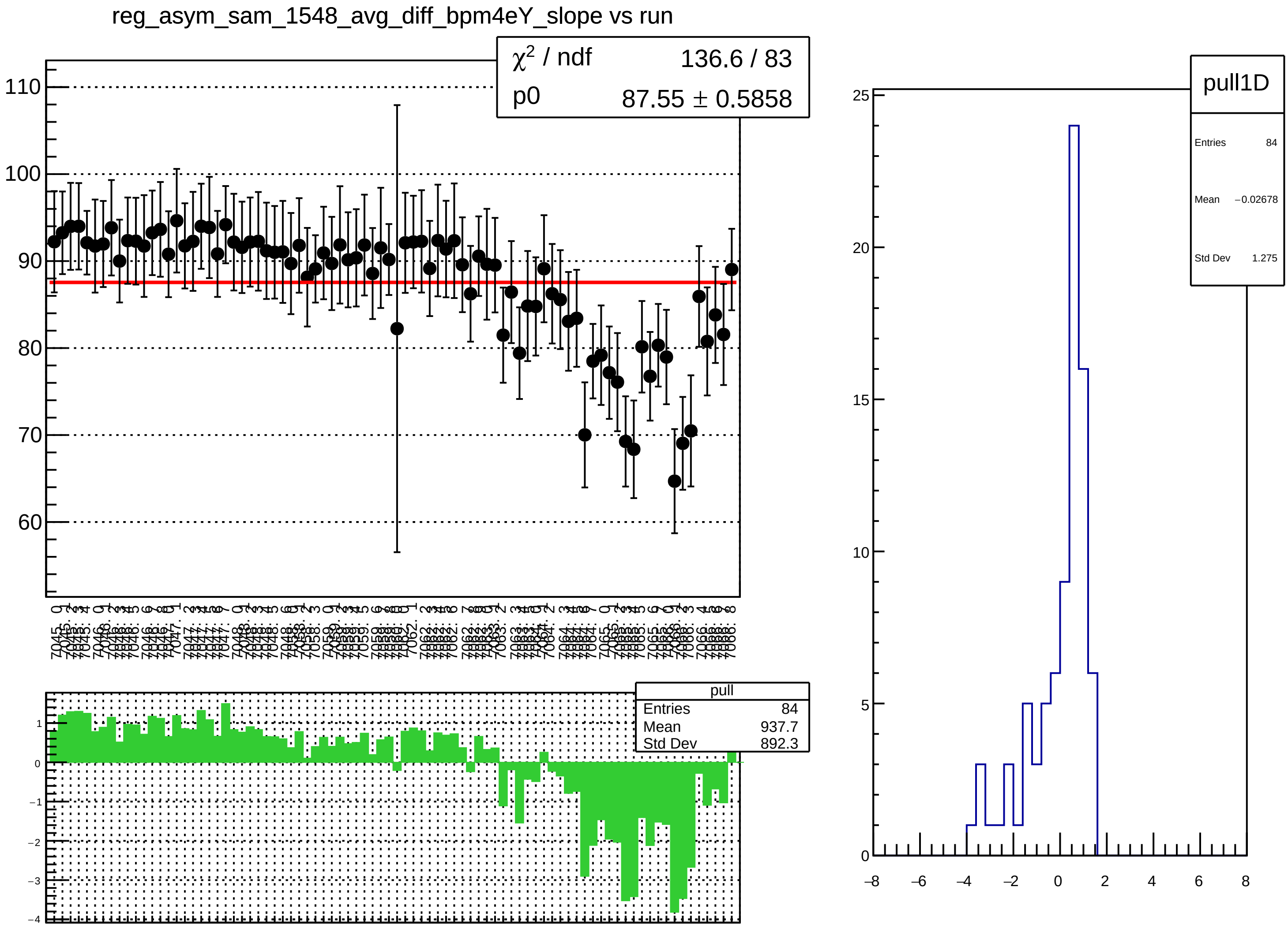
reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 404.7 / 83
p0 −21.17 ± 0.784
0
−20
−40
−60
−80
pull
Entries 84
Mean −357.5
Std Dev 402.5
2
0
−2
−4
−6
−8
pull1D
Entries 84
Mean 0.1952
Std Dev 2.012
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



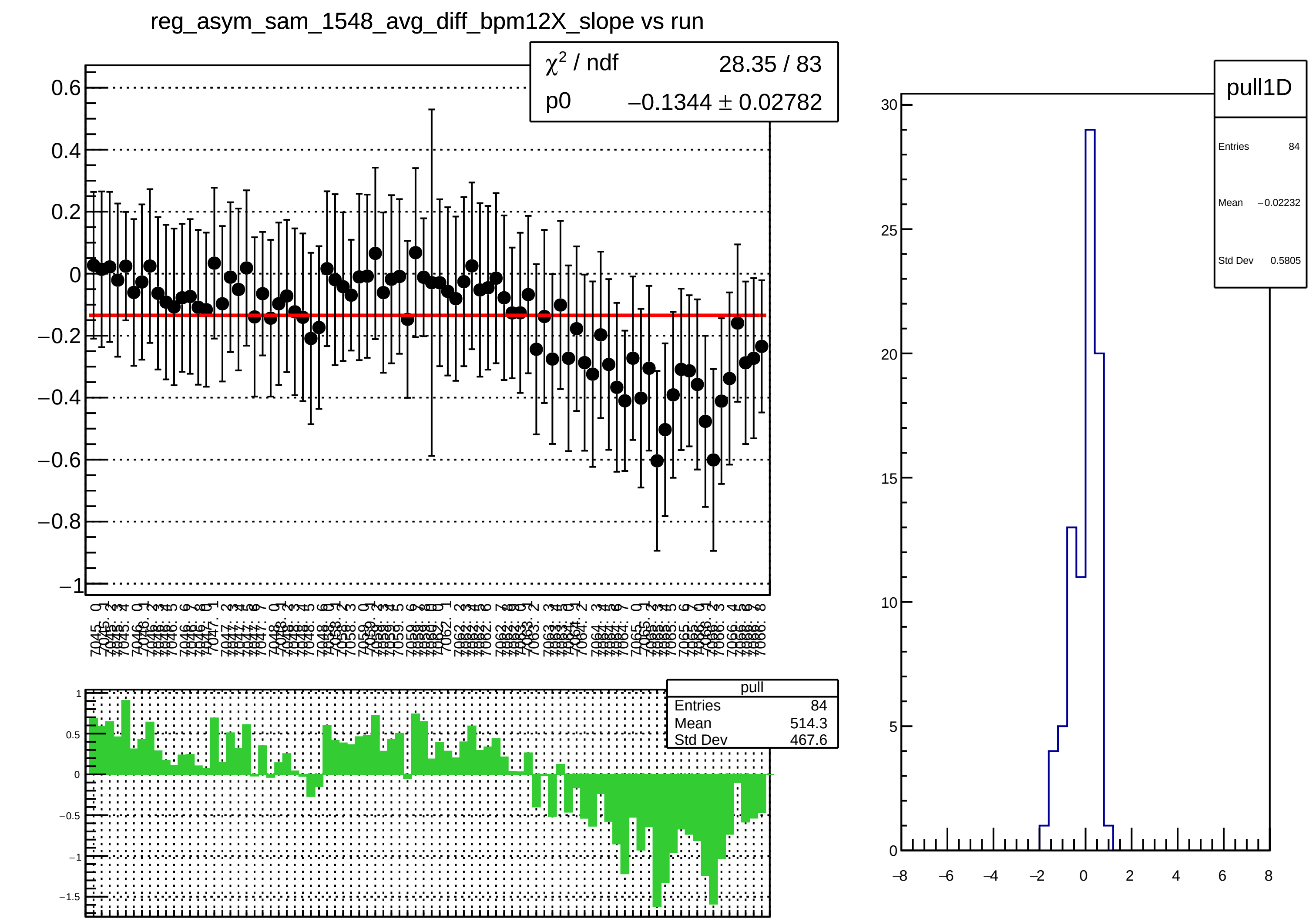
reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 168.8 / 83
p0 −5.539 ± 0.5489
pull
Entries 84
Mean 732.1
Std Dev 686.2
pull1D
Entries 84
Mean 0.03814
Std Dev 1.417

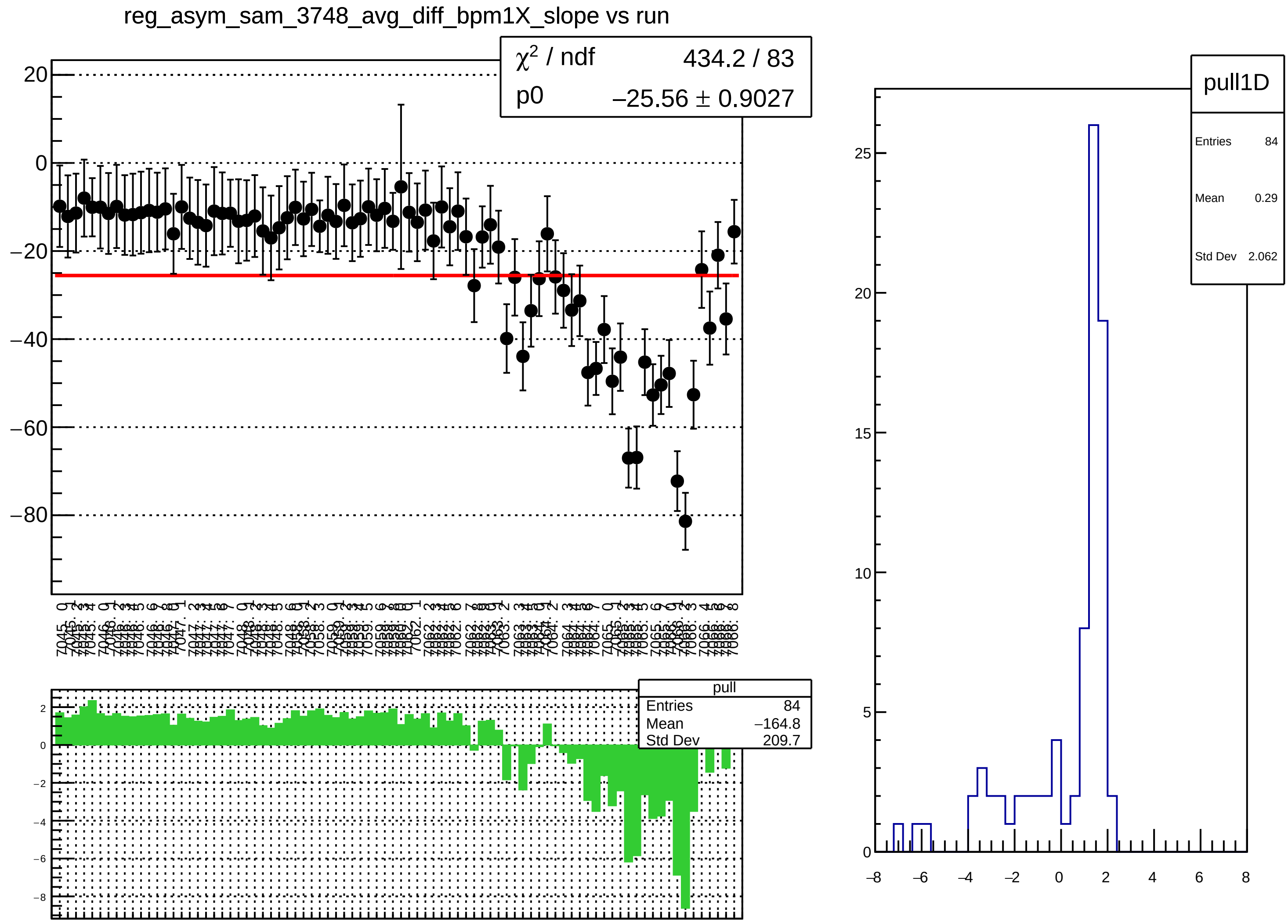


reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 369.6 / 83
p0 −33.42 ± 0.7481
pull
Entries 84
Mean −475.3
Std Dev 520.1
pull1D
Entries 84
Mean −0.07339
Std Dev 2.096

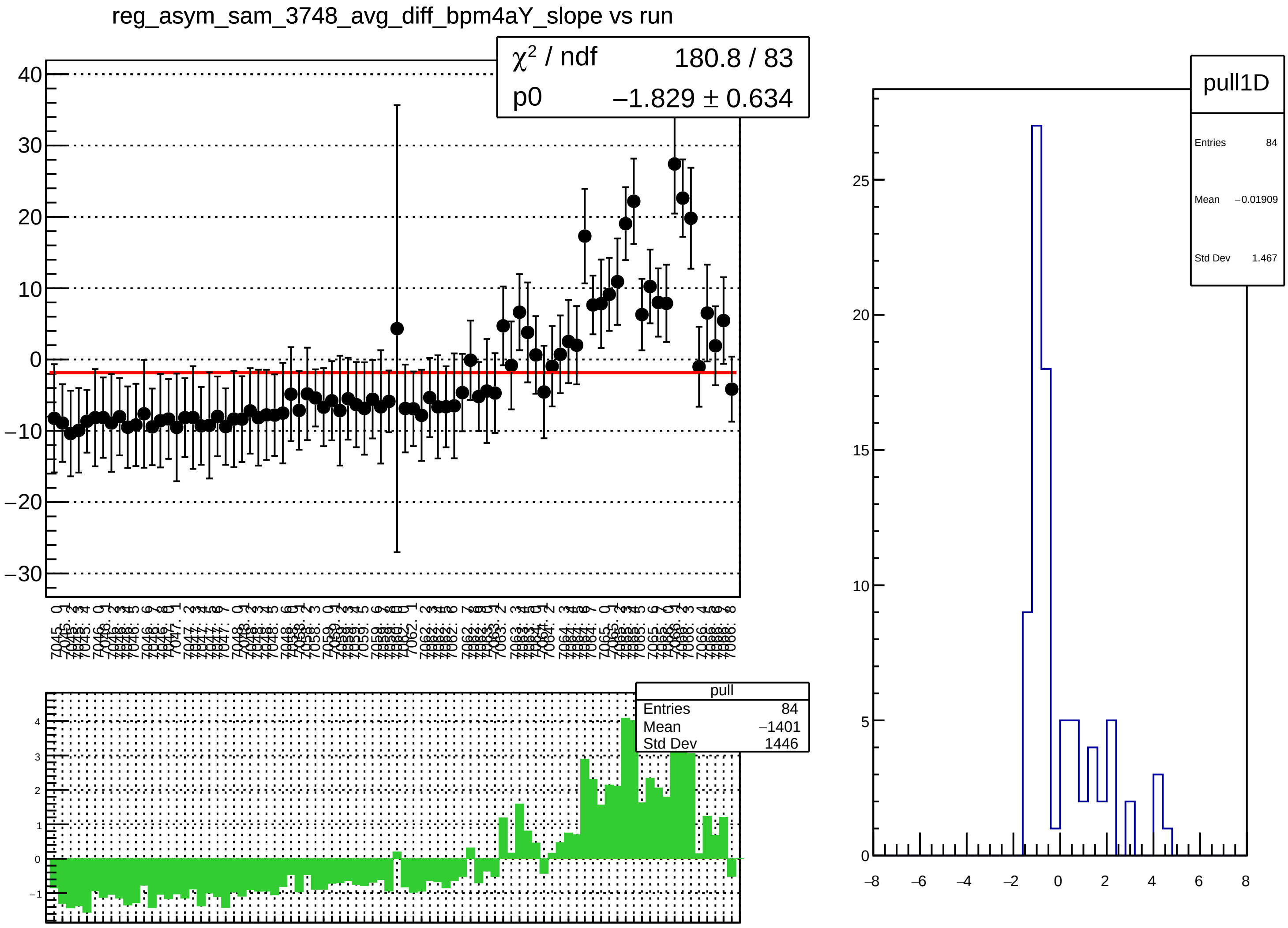


reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 136.6 / 83
p0 87.55 ± 0.5858
pull
Entries 84
Mean 937.7
Std Dev 892.3
pull1D
Entries 84
Mean −0.02678
Std Dev 1.275

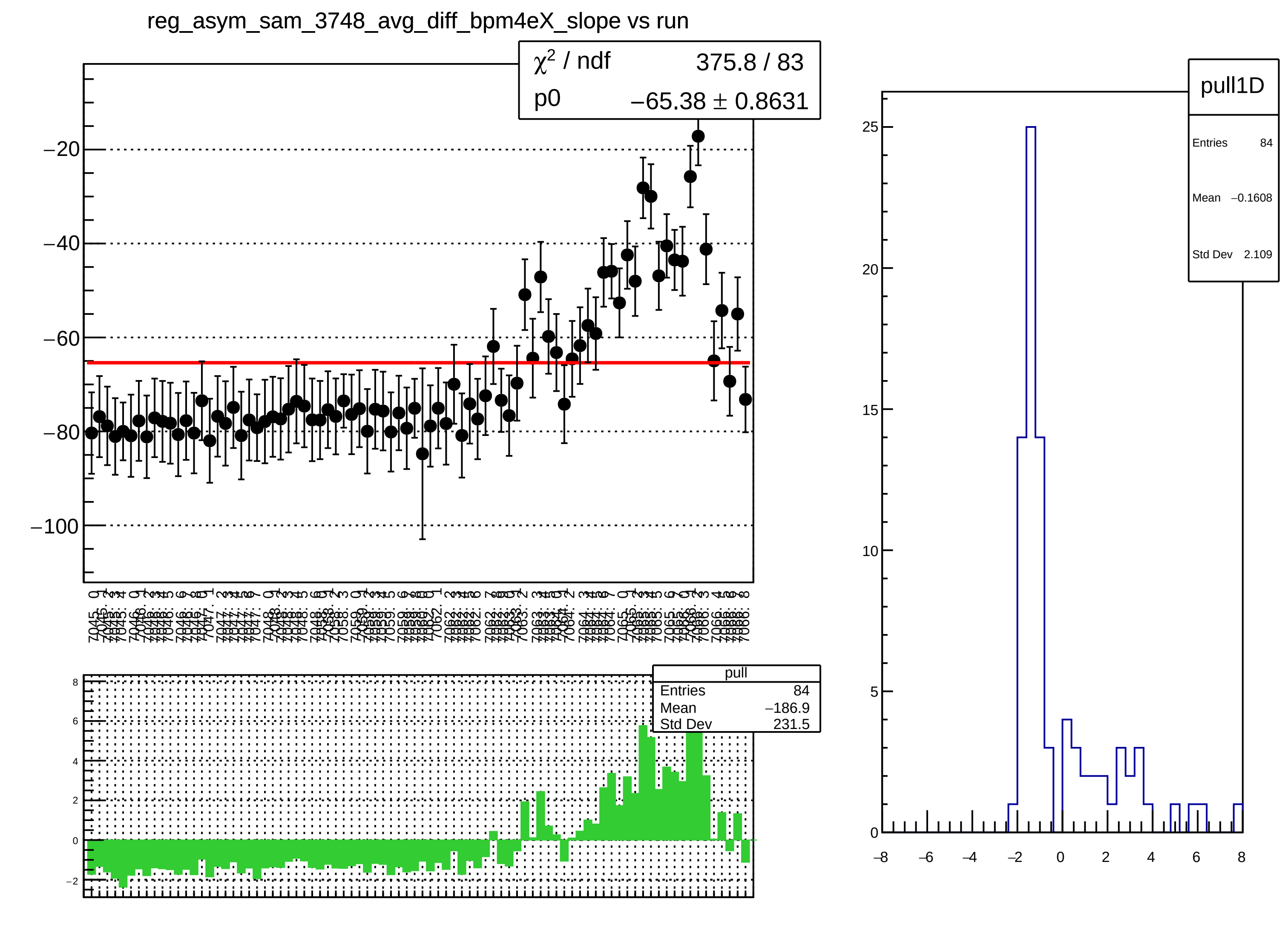

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 28.35 / 83
p0 −0.1344 ± 0.02782
pull
Entries 84
Mean 514.3
Std Dev 467.6
pull1D
Entries 84
Mean −0.02232
Std Dev 0.5805



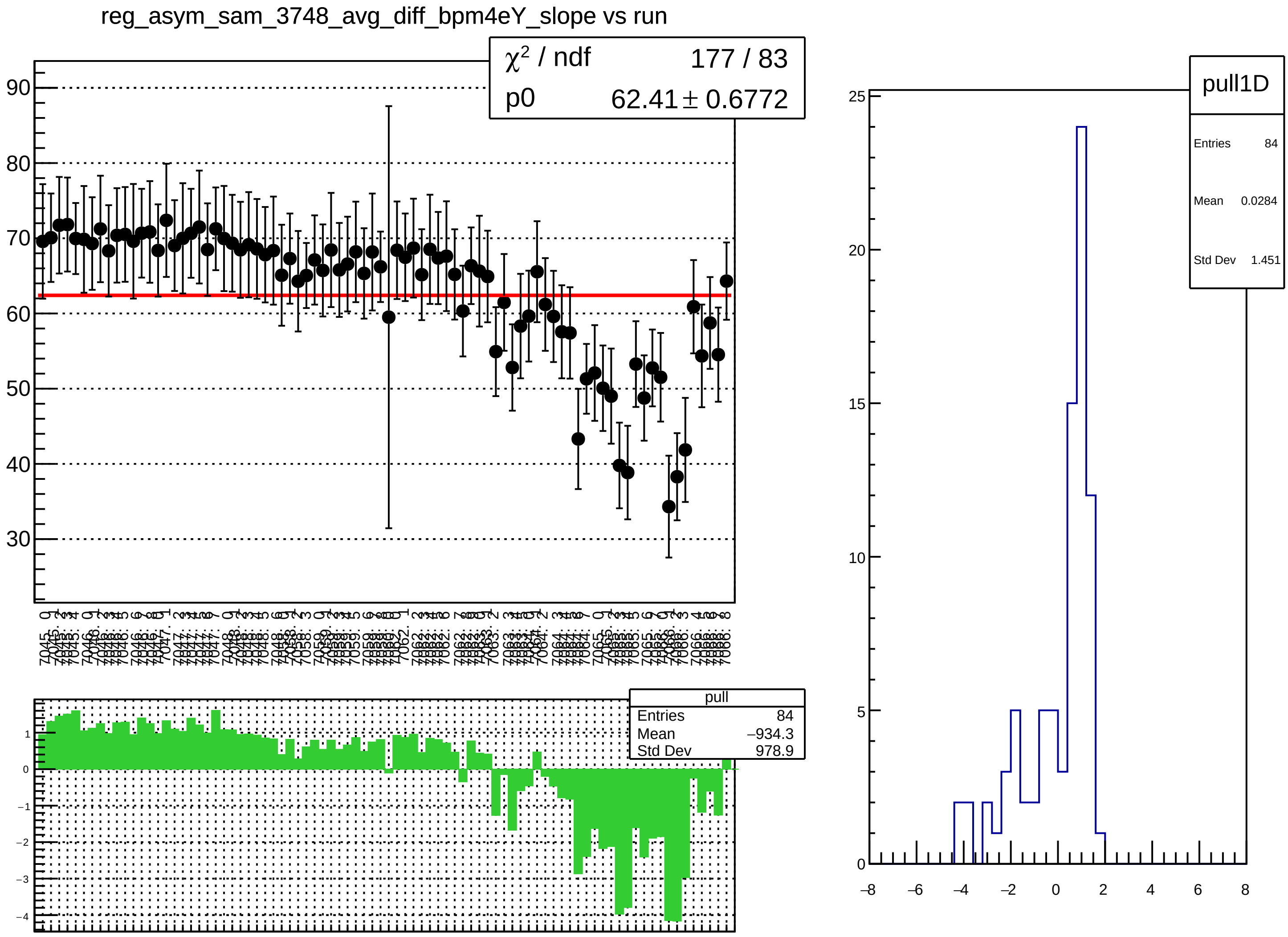
reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 434.2 / 83
p0 −25.56 ± 0.9027
20
0
−20
−40
−60
−80
pull
Entries 84
Mean −164.8
Std Dev 209.7
pull1D
Entries 84
Mean 0.29
Std Dev 2.062



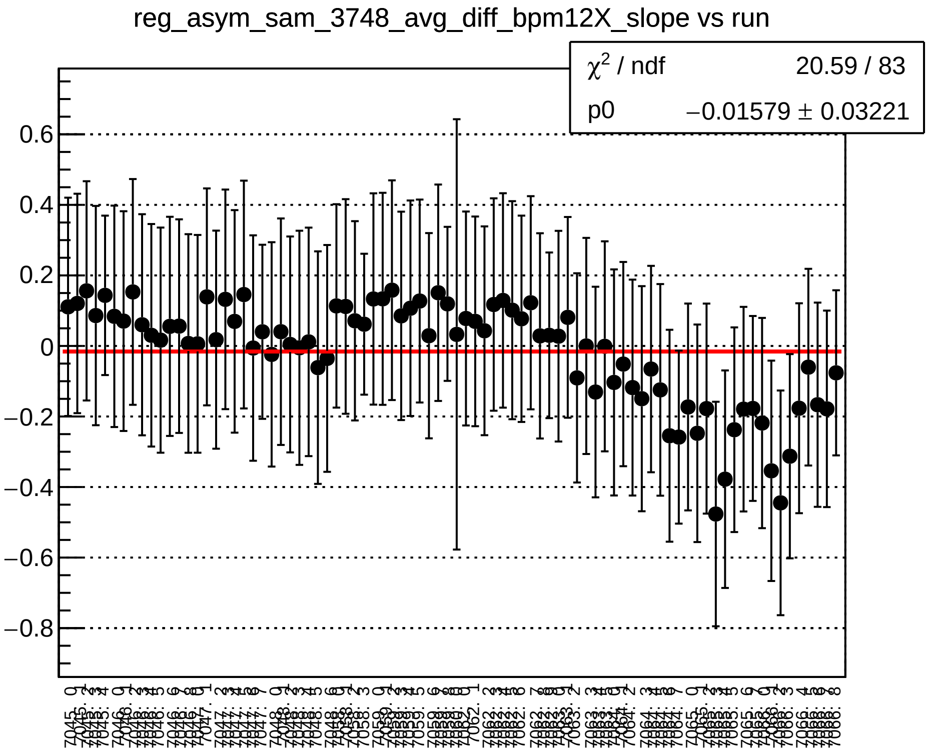
reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 180.8 / 83
p0 −1.829 ± 0.634
40
30
20
10
0
−10
−20
−30
pull
Entries 84
Mean −1401
Std Dev 1446
4
3
2
1
0
−1
pull1D
Entries 84
Mean −0.01909
Std Dev 1.467
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

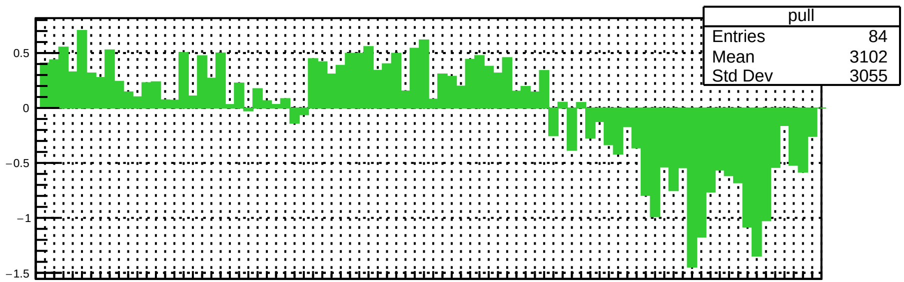


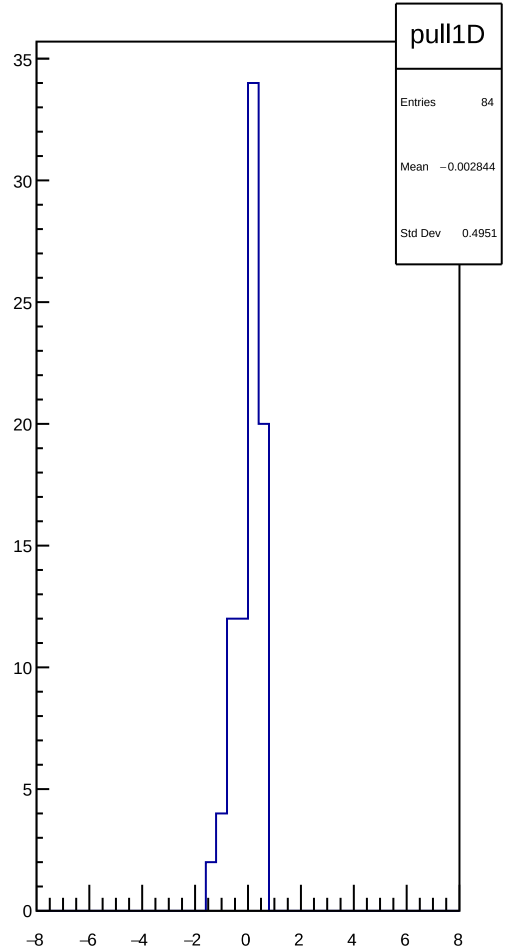
reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 375.8 / 83
p0 −65.38 ± 0.8631
pull
Entries 84
Mean −186.9
Std Dev 231.5
pull1D
Entries 84
Mean −0.1608
Std Dev 2.109

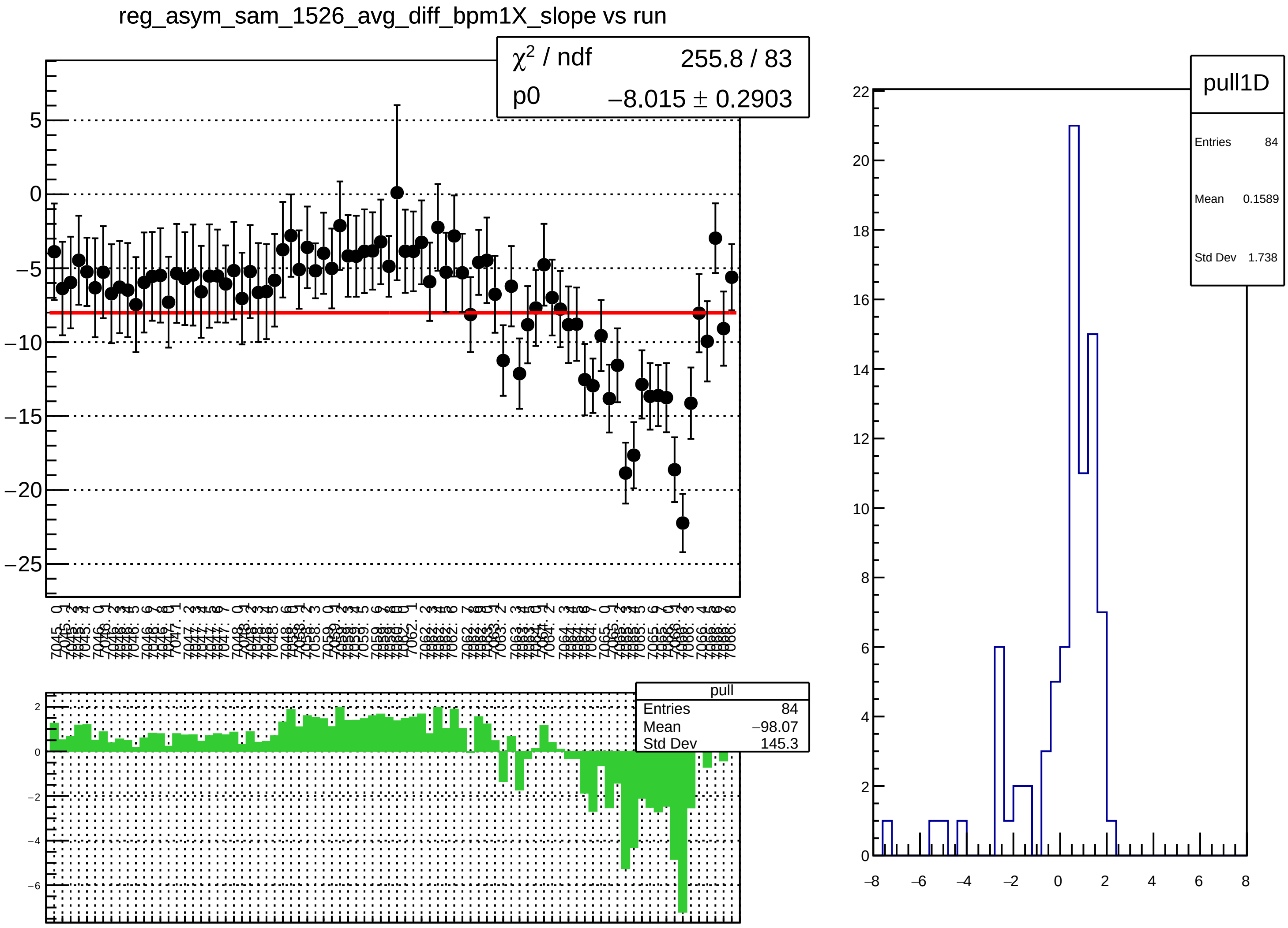


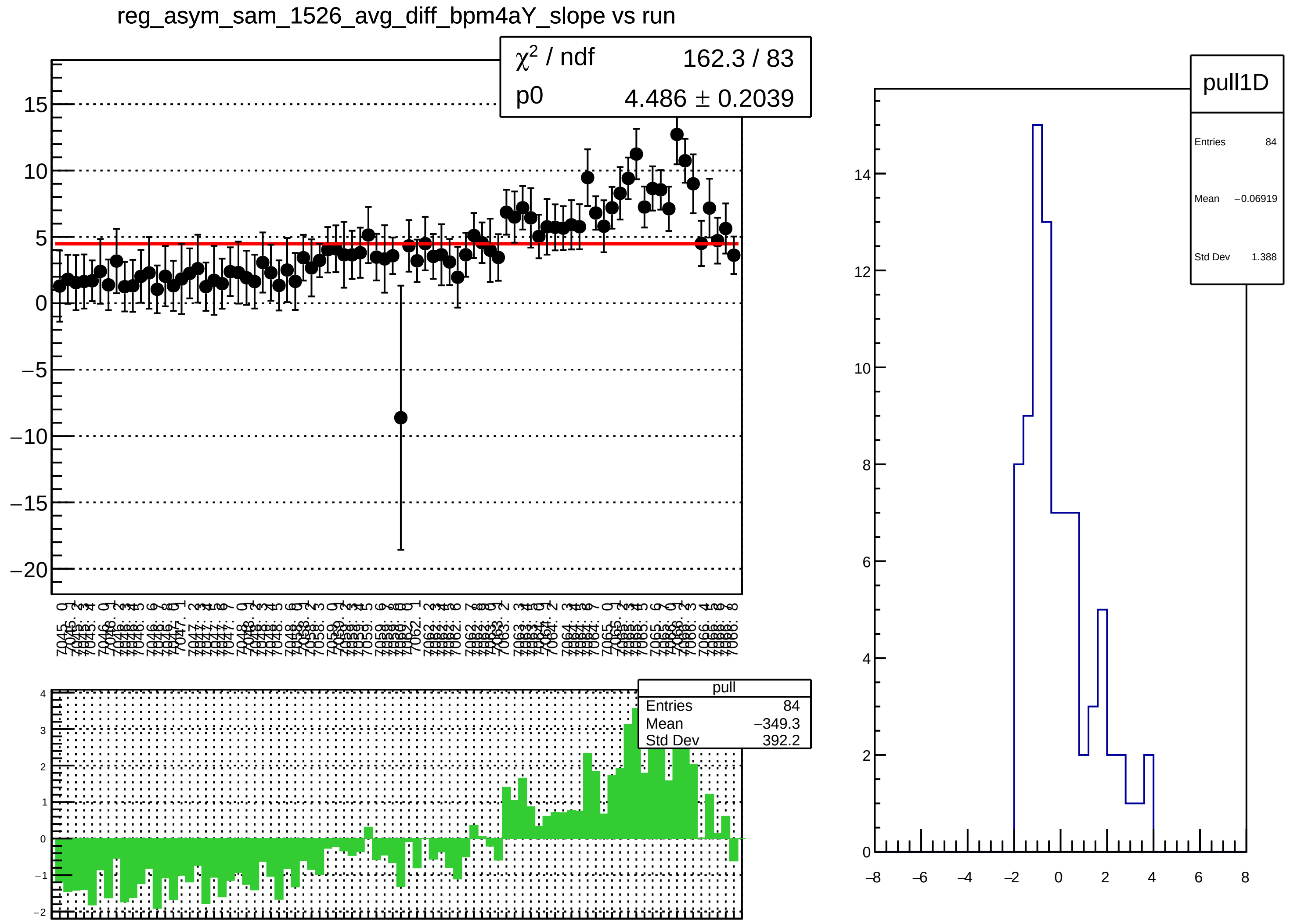
reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 177 / 83
p0 62.41 ± 0.6772
pull
Entries 84
Mean −934.3
Std Dev 978.9
pull1D
Entries 84
Mean 0.0284
Std Dev 1.451

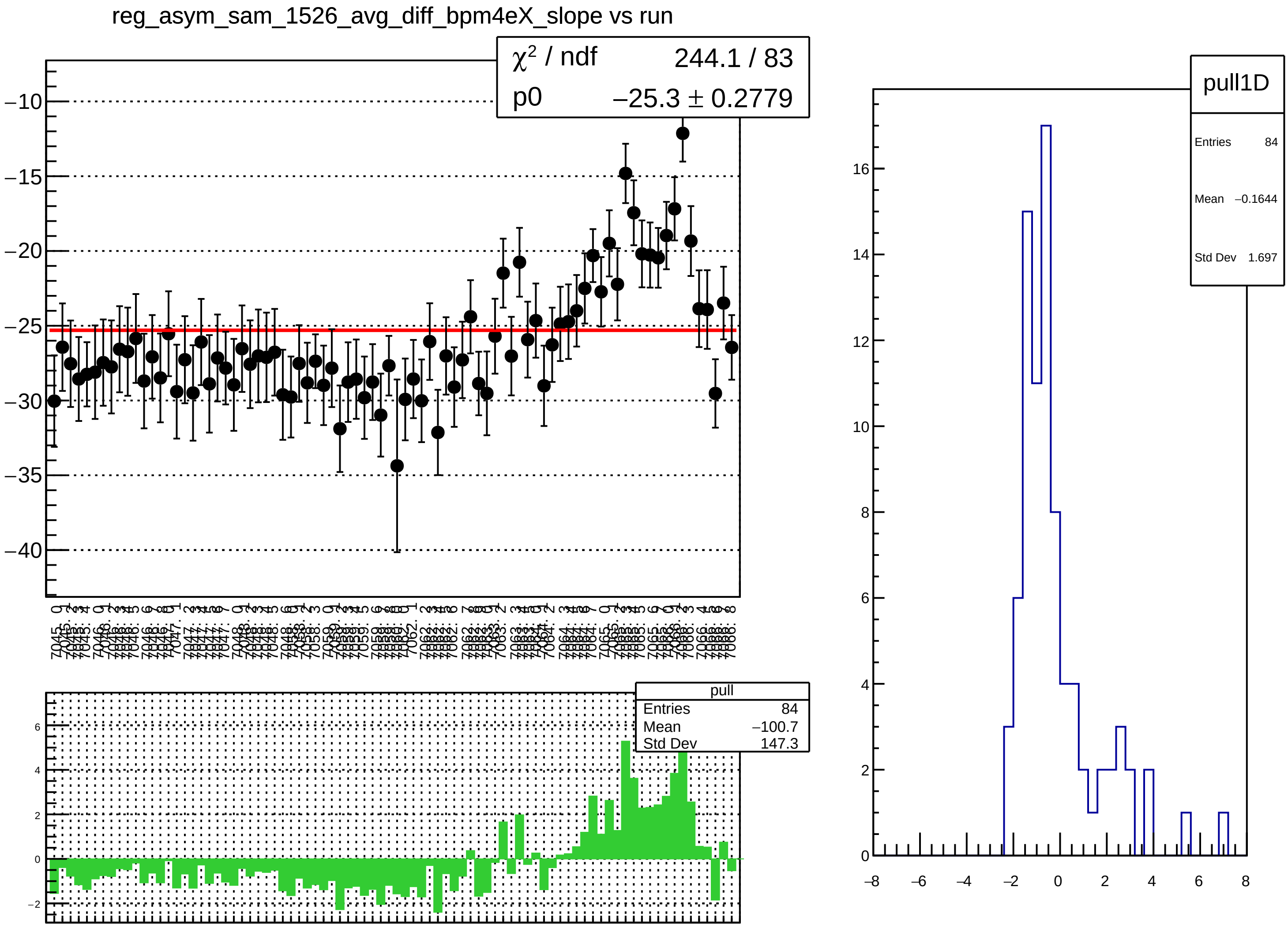

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 20.59 / 83
p0 −0.01579 ± 0.03221
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull
Entries 84
Mean 3102
Std Dev 3055
0.5
0
−0.5
−1
−1.5

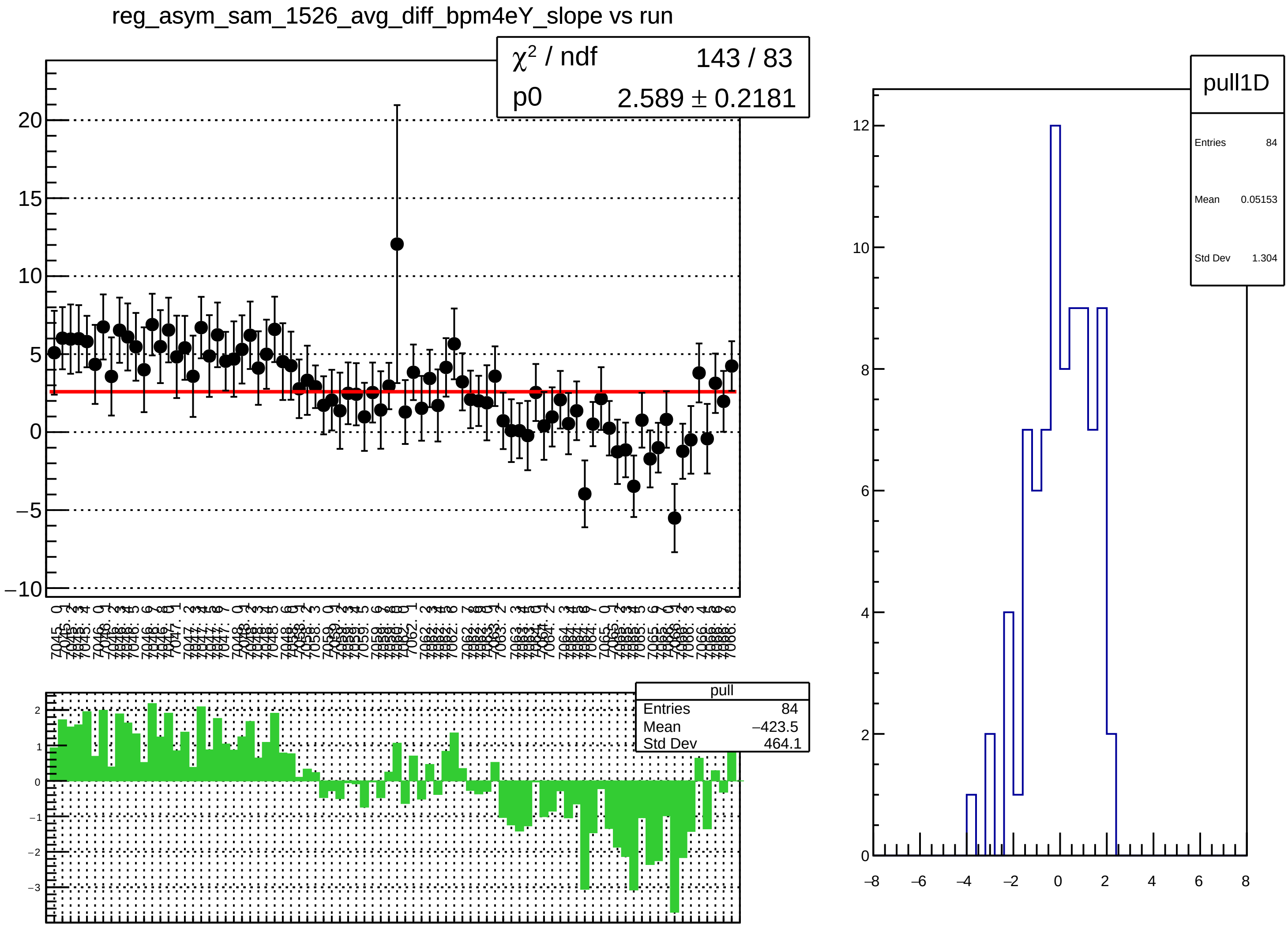

pull1D
Entries 84
Mean −0.002844
Std Dev 0.4951
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 255.8 / 83
p0 −8.015 ± 0.2903
pull
Entries 84
Mean −98.07
Std Dev 145.3
pull1D
Entries 84
Mean 0.1589
Std Dev 1.738

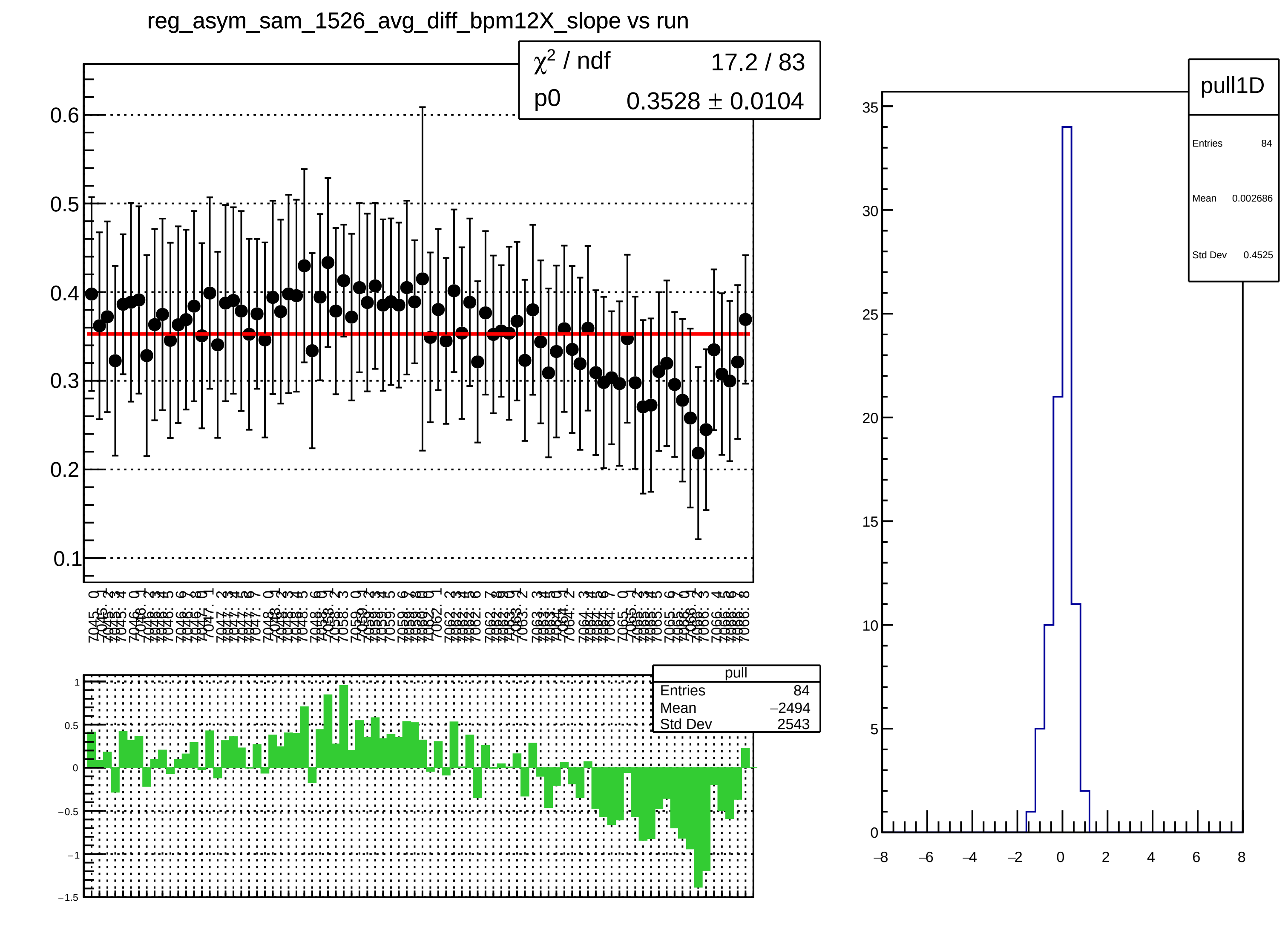

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 162.3 / 83
p0 4.486 ± 0.2039
pull
Entries 84
Mean −349.3
Std Dev 392.2
pull1D
Entries 84
Mean −0.06919
Std Dev 1.388



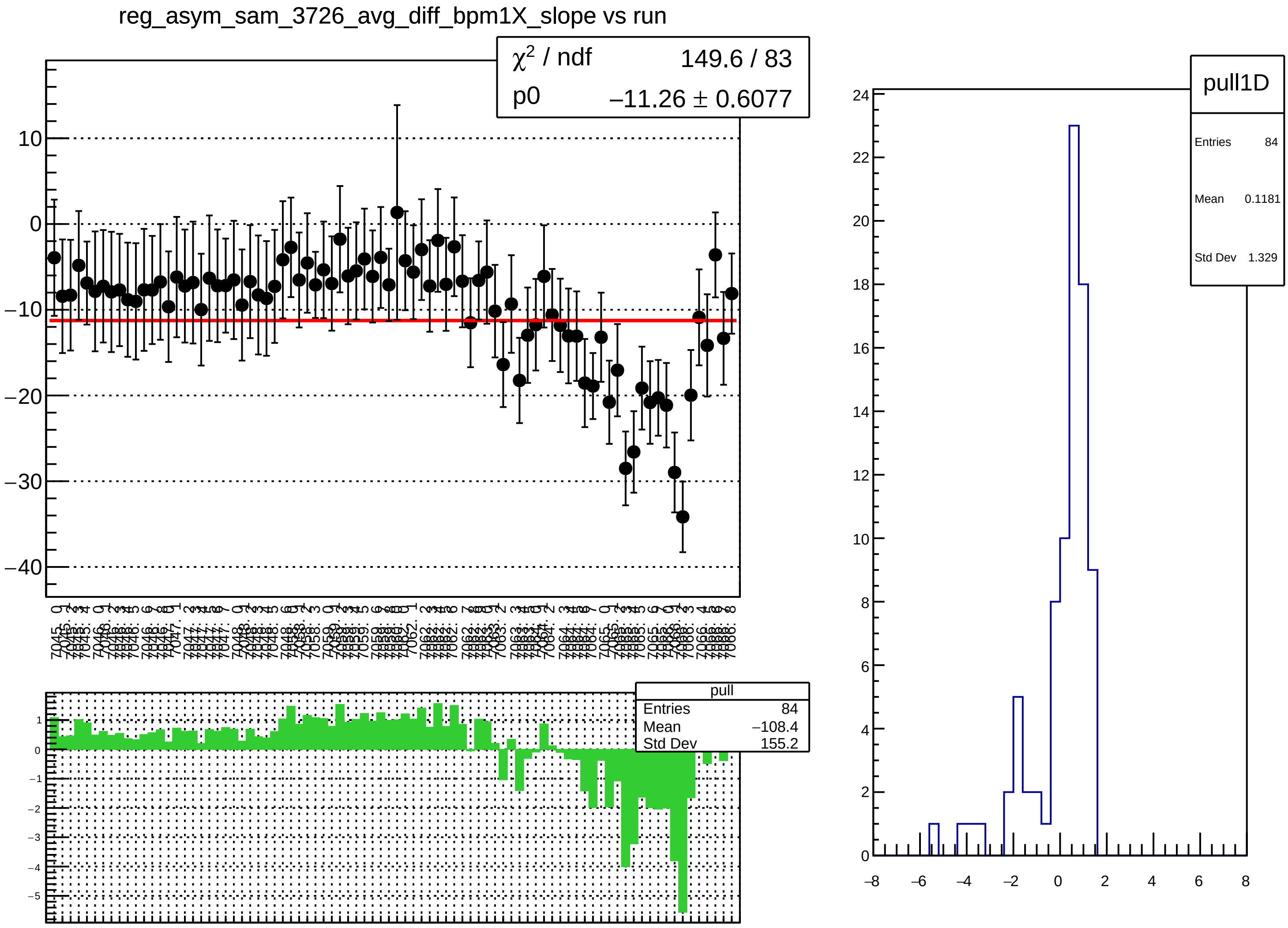
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 244.1 / 83
p0 −25.3 ± 0.2779
pull
Entries 84
Mean −100.7
Std Dev 147.3
pull1D
Entries 84
Mean −0.1644
Std Dev 1.697

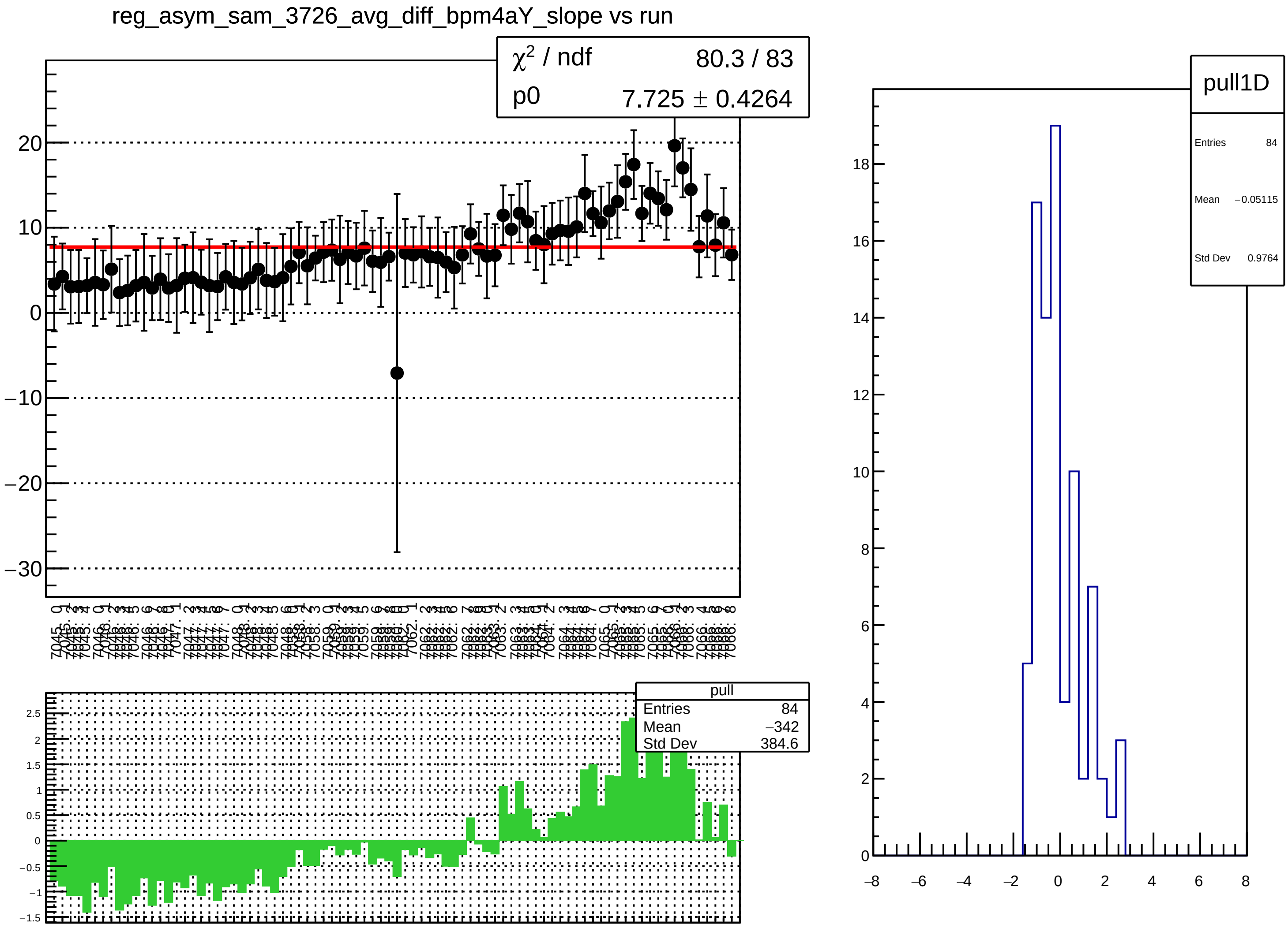


reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 143 / 83
p0 2.589 ± 0.2181
pull
Entries 84
Mean −423.5
Std Dev 464.1
pull1D
Entries 84
Mean 0.05153
Std Dev 1.304

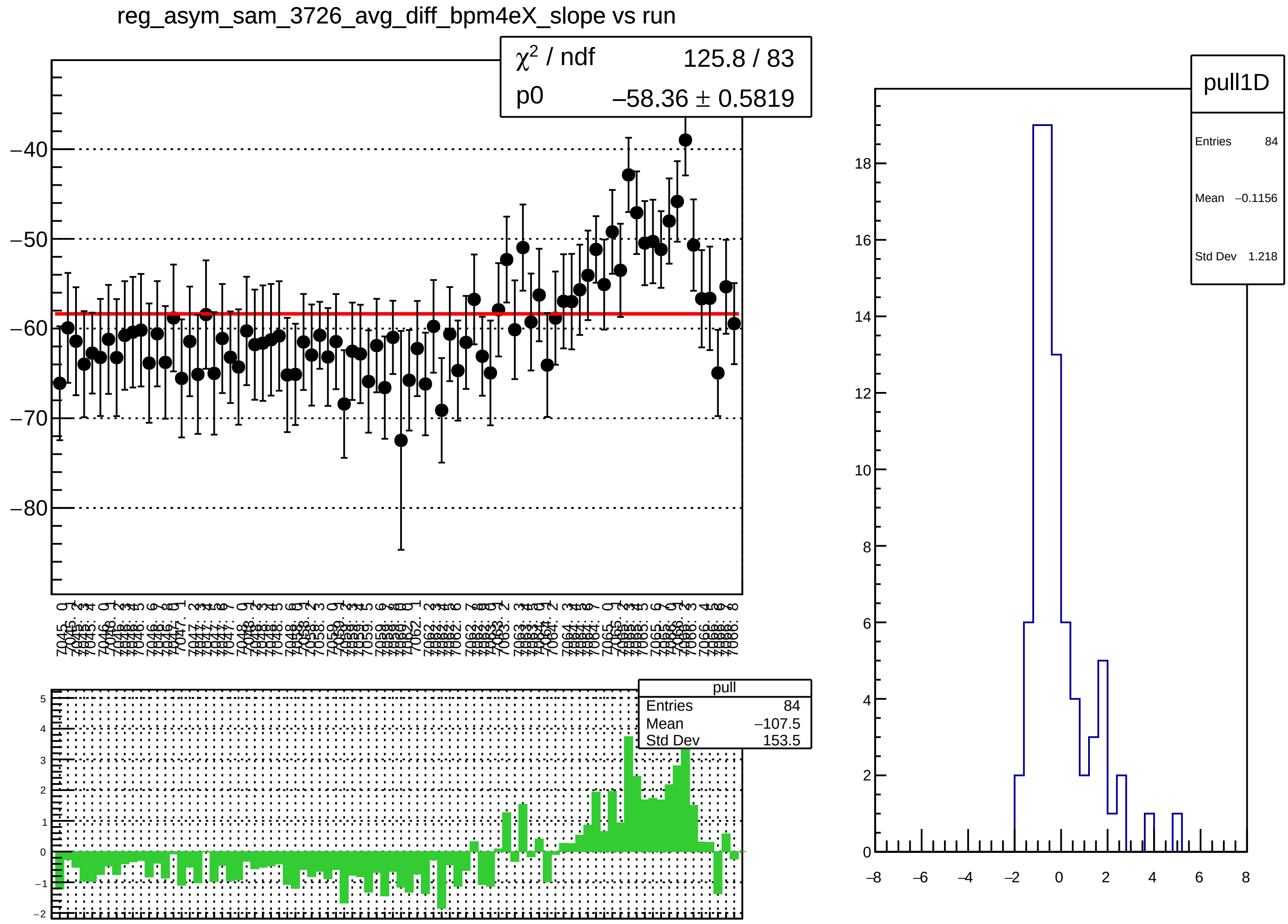


reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 17.2 / 83
p0 0.3528 ± 0.0104
pull
Entries 84
Mean −2494
Std Dev 2543
pull1D
Entries 84
Mean 0.002686
Std Dev 0.4525

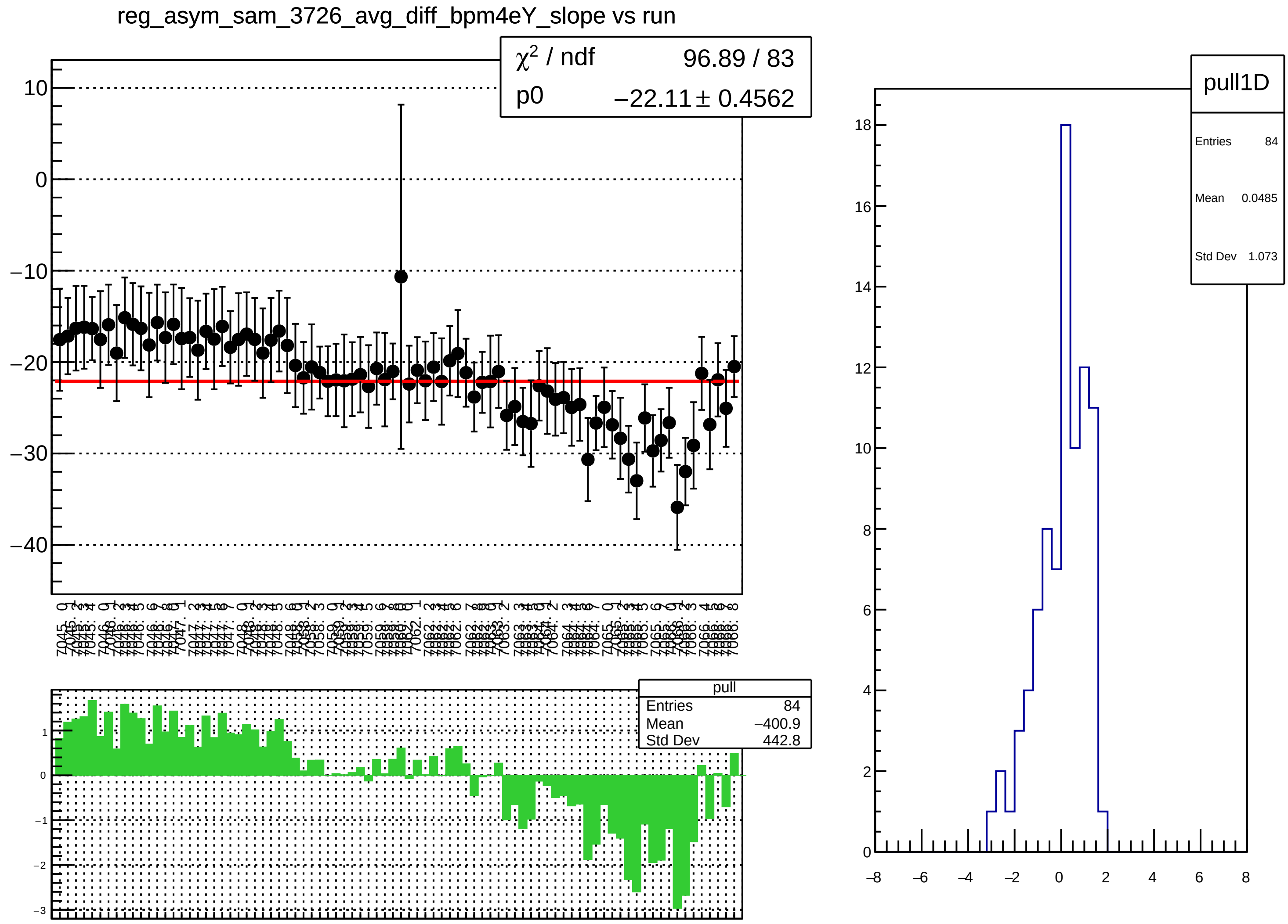

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ2 / ndf 149.6 / 83
p0 −11.26 ± 0.6077
pull
Entries 84
Mean −108.4
Std Dev 155.2
pull1D
Entries 84
Mean 0.1181
Std Dev 1.329



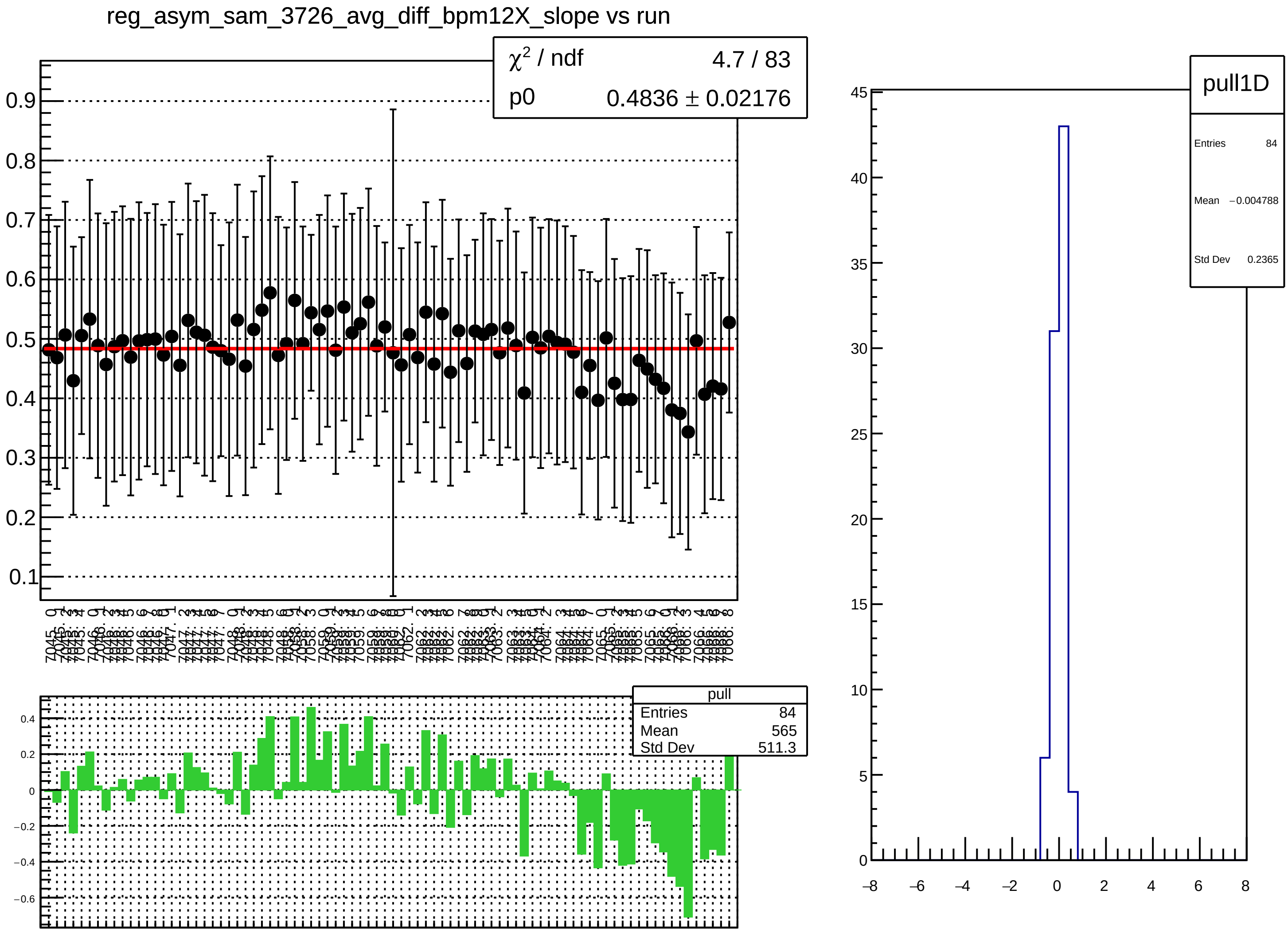
reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 80.3 / 83
p0 7.725 ± 0.4264
pull
Entries 84
Mean −342
Std Dev 384.6
pull1D
Entries 84
Mean −0.05115
Std Dev 0.9764



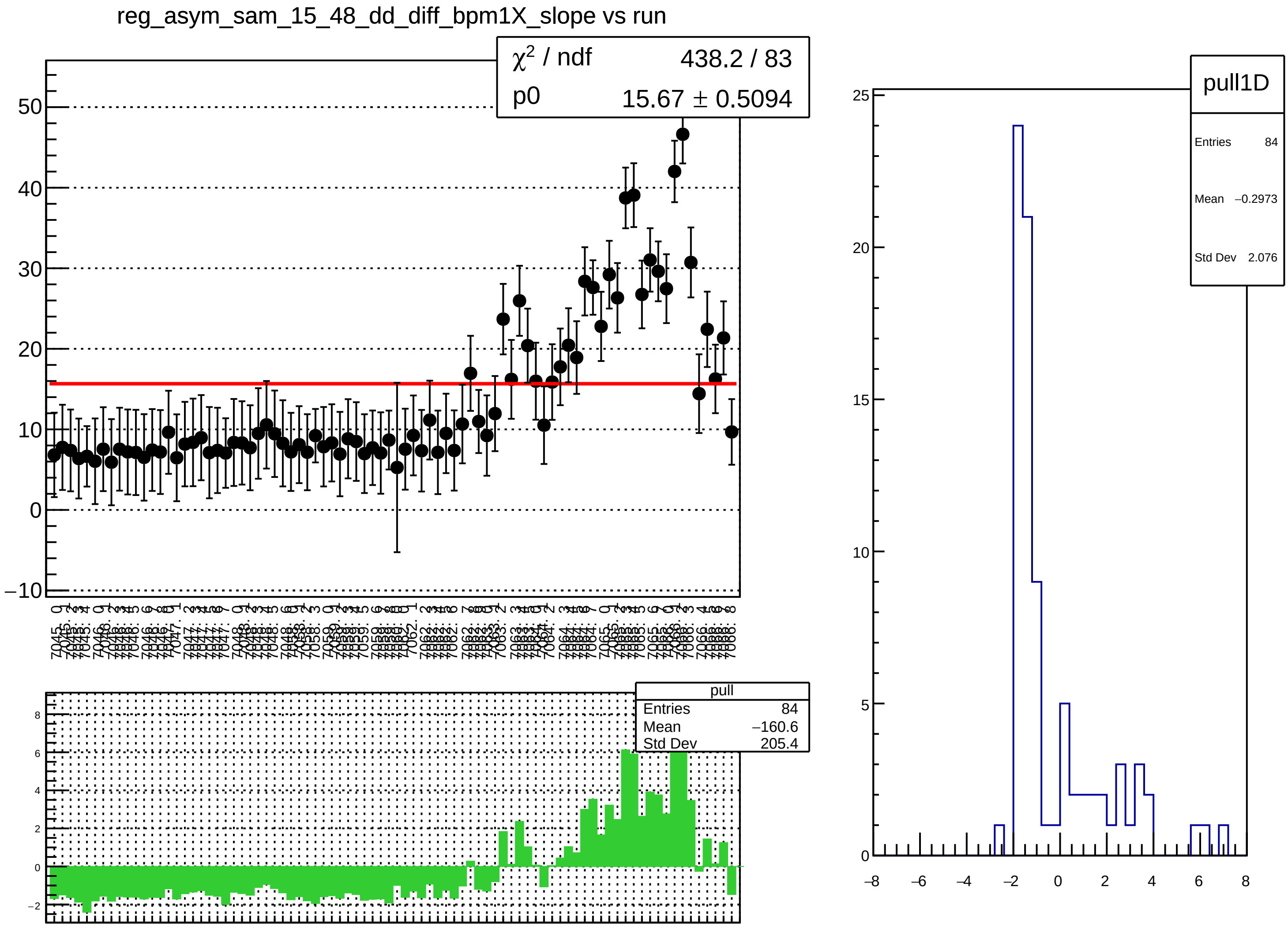
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ2 / ndf 125.8 / 83
p0 −58.36 ± 0.5819
pull
Entries 84
Mean −107.5
Std Dev 153.5
pull1D
Entries 84
Mean −0.1156
Std Dev 1.218



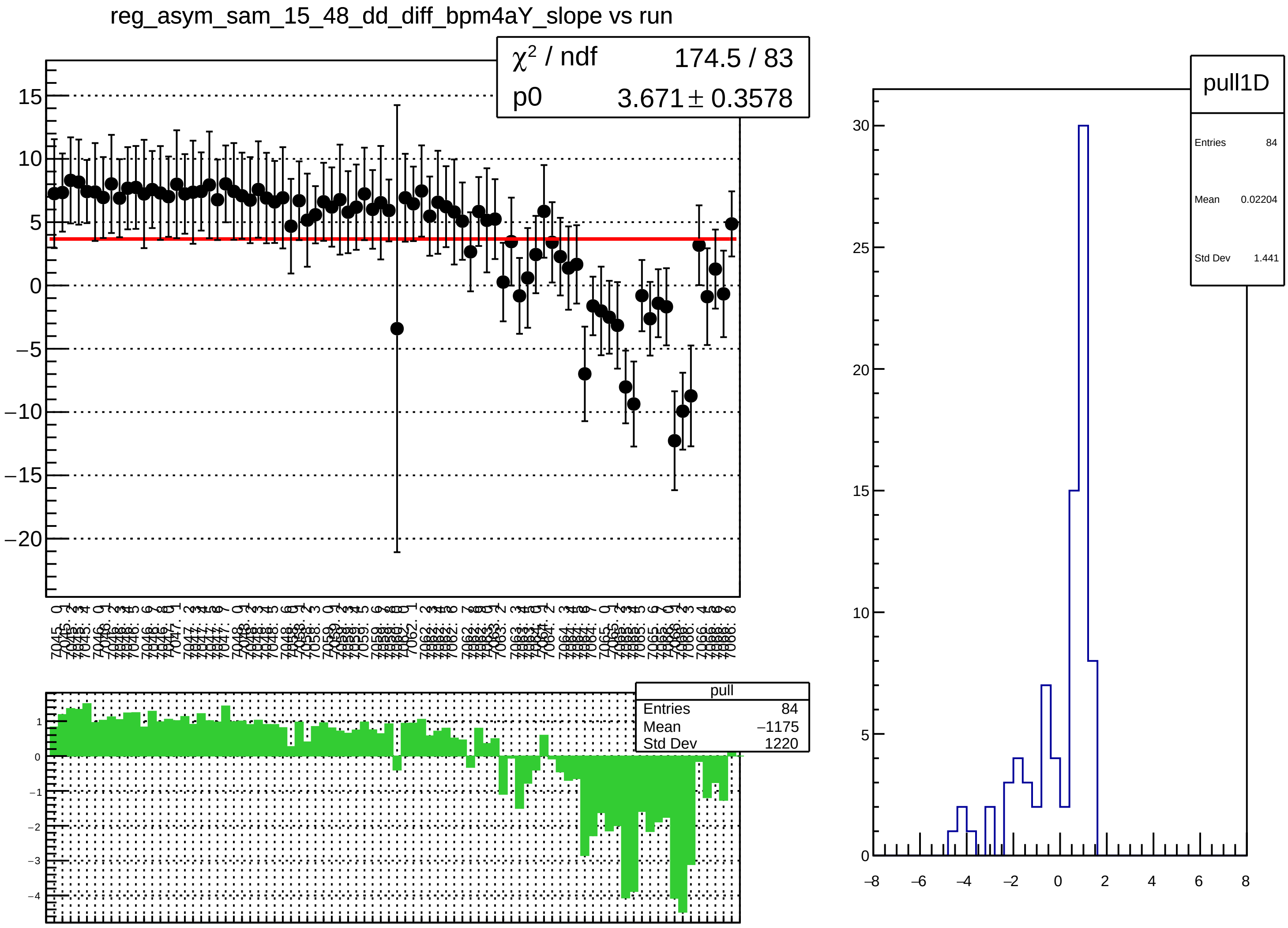
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 96.89 / 83
p0 −22.11 ± 0.4562
pull
Entries 84
Mean −400.9
Std Dev 442.8
pull1D
Entries 84
Mean 0.0485
Std Dev 1.073



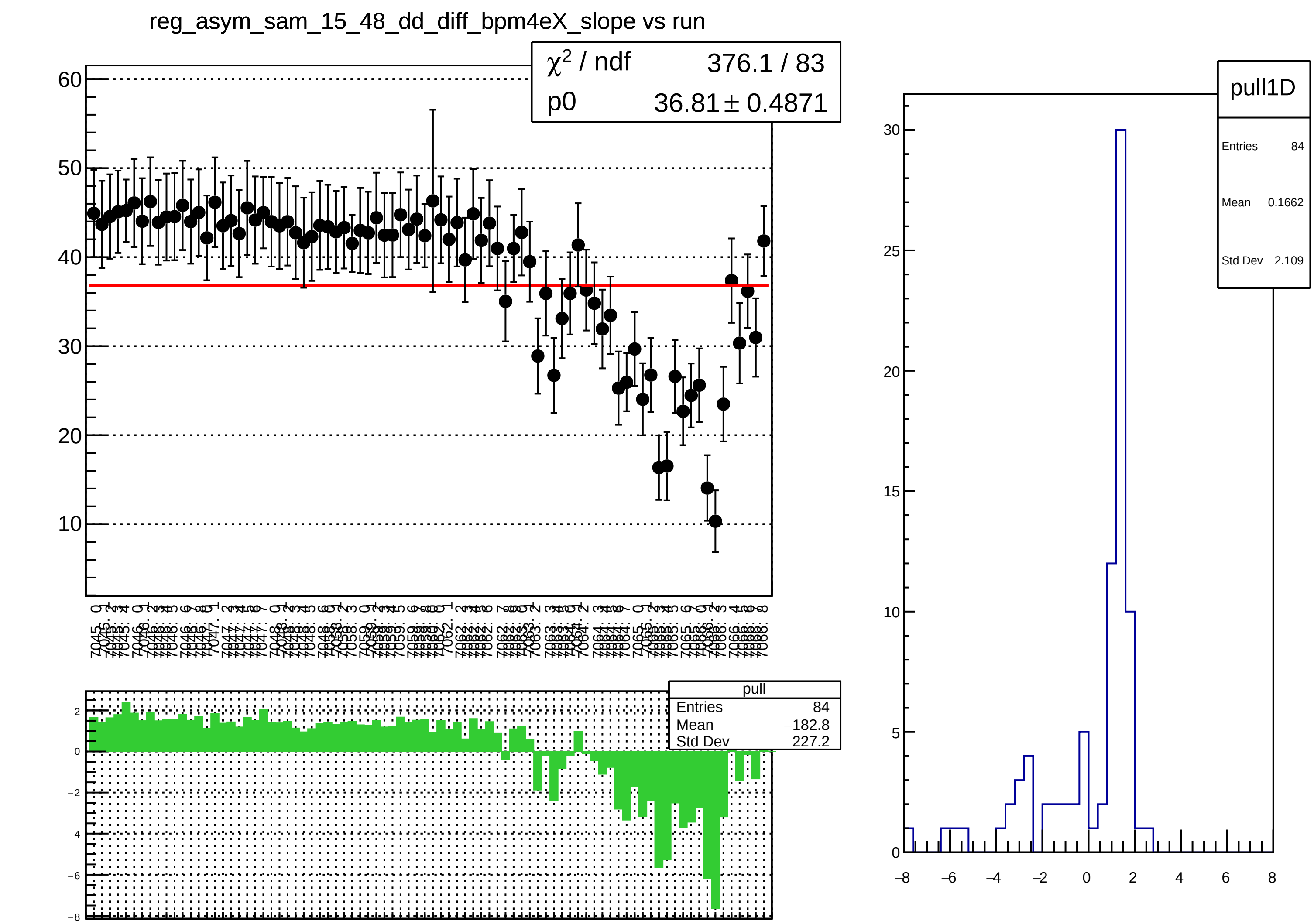
reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ2 / ndf 4.7 / 83
p0 0.4836 ± 0.02176
pull
Entries 84
Mean 565
Std Dev 511.3
pull1D
Entries 84
Mean −0.004788
Std Dev 0.2365



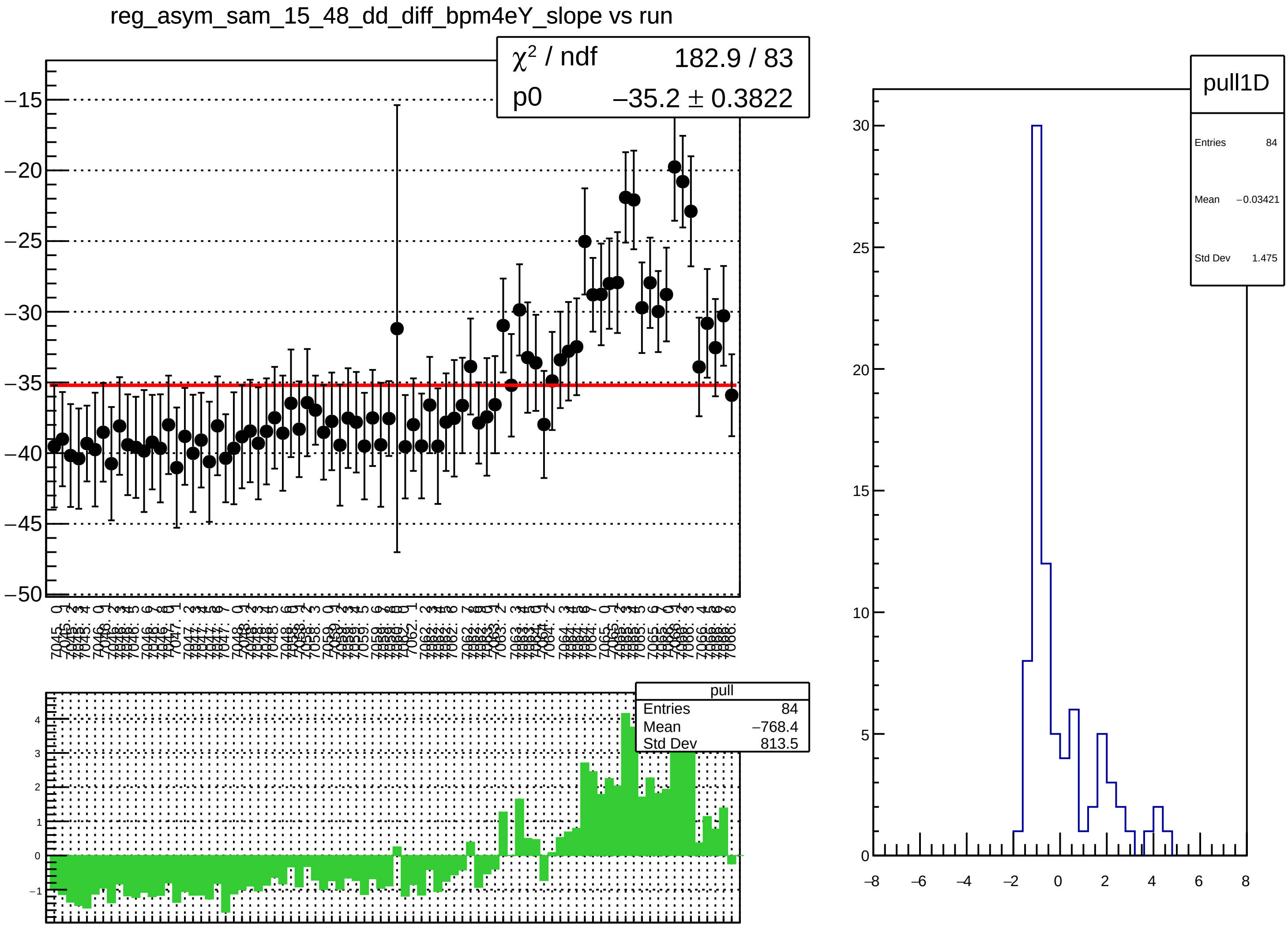
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 438.2 / 83
p0 15.67 ± 0.5094
pull
Entries 84
Mean −160.6
Std Dev 205.4
pull1D
Entries 84
Mean −0.2973
Std Dev 2.076

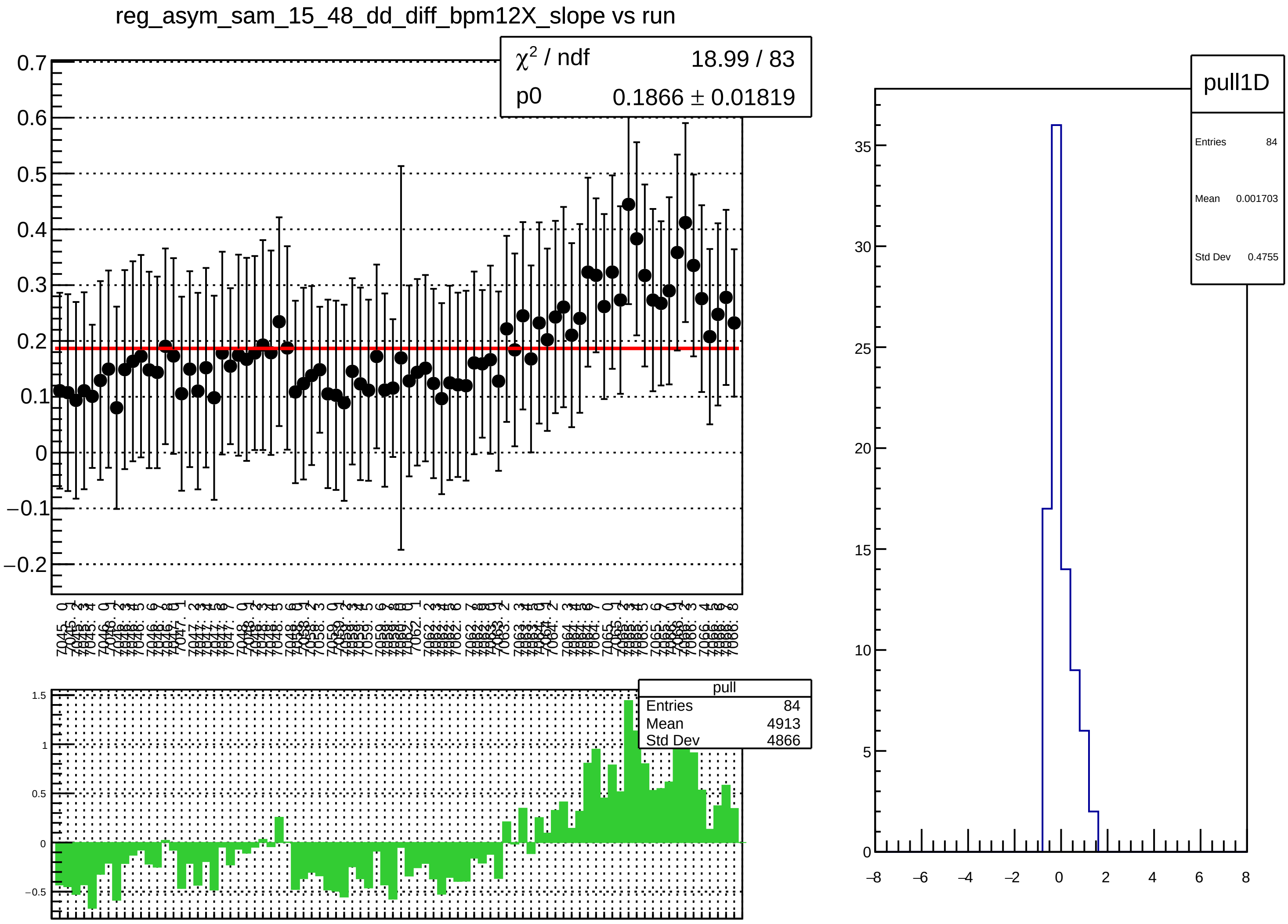


reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 174.5 / 83
p0 3.671 ± 0.3578
pull
Entries 84
Mean −1175
Std Dev 1220
pull1D
Entries 84
Mean 0.02204
Std Dev 1.441

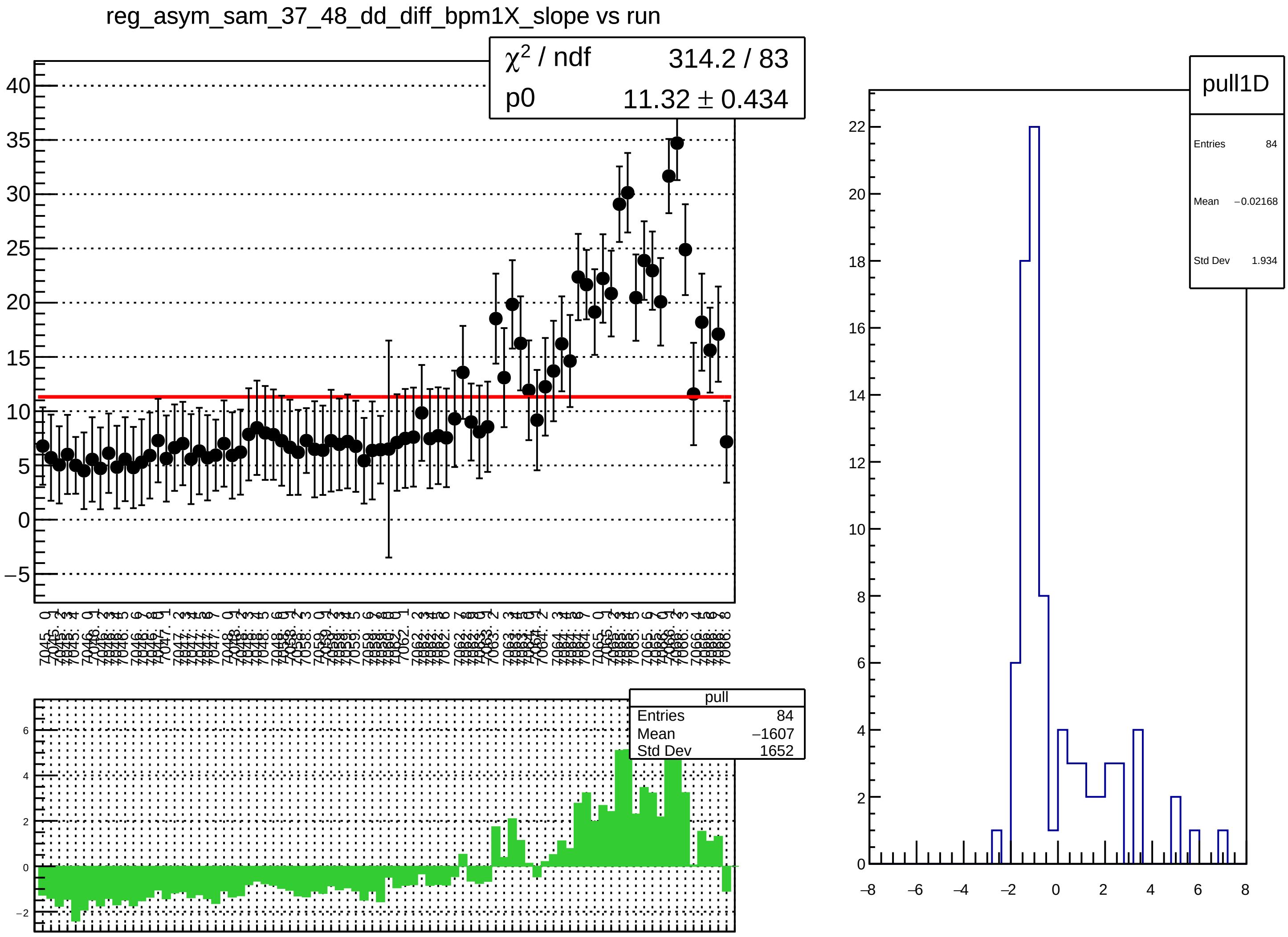


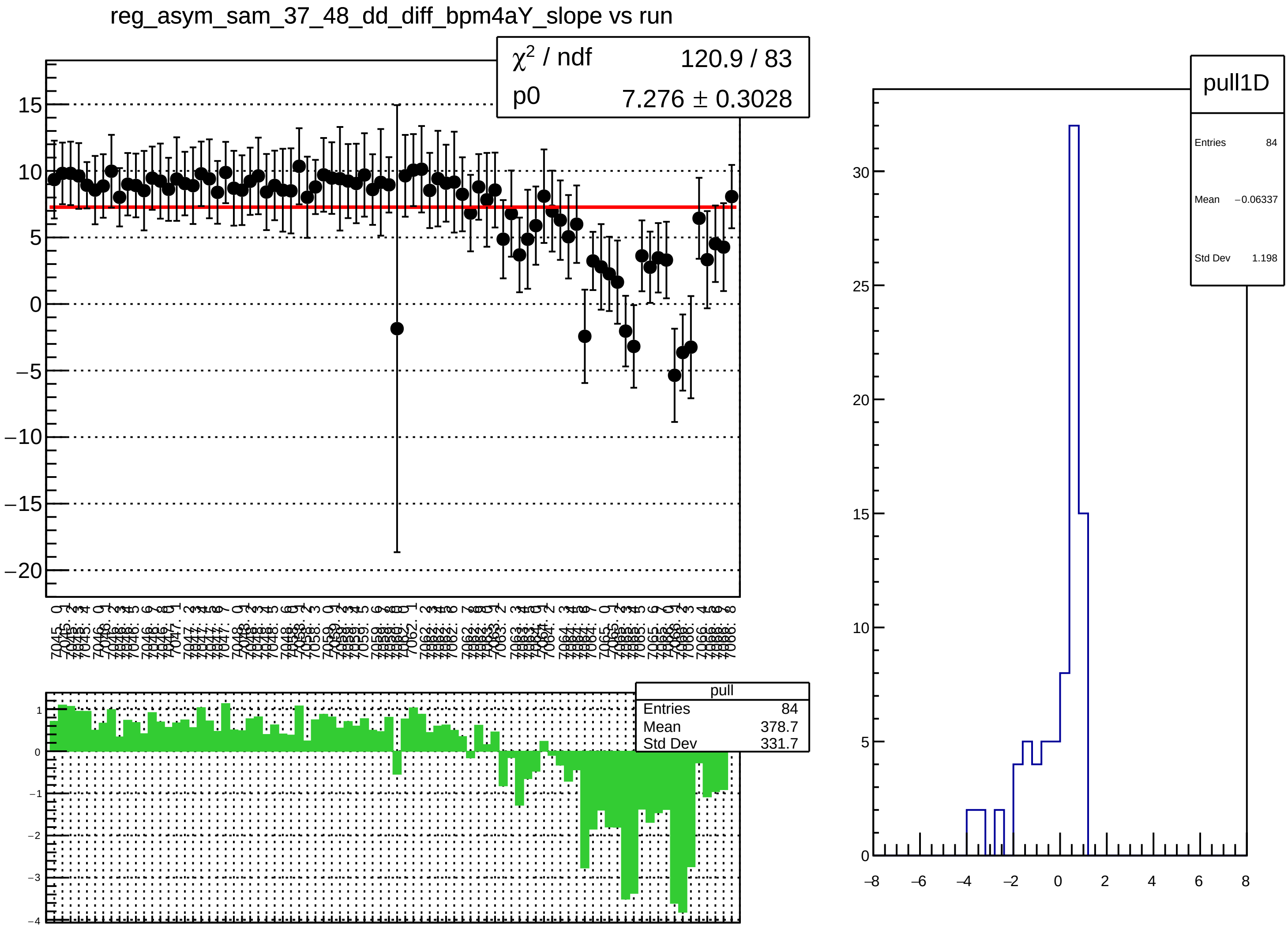
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ2 / ndf 376.1 / 83
p0 36.81 ± 0.4871
pull
Entries 84
Mean −182.8
Std Dev 227.2
pull1D
Entries 84
Mean 0.1662
Std Dev 2.109

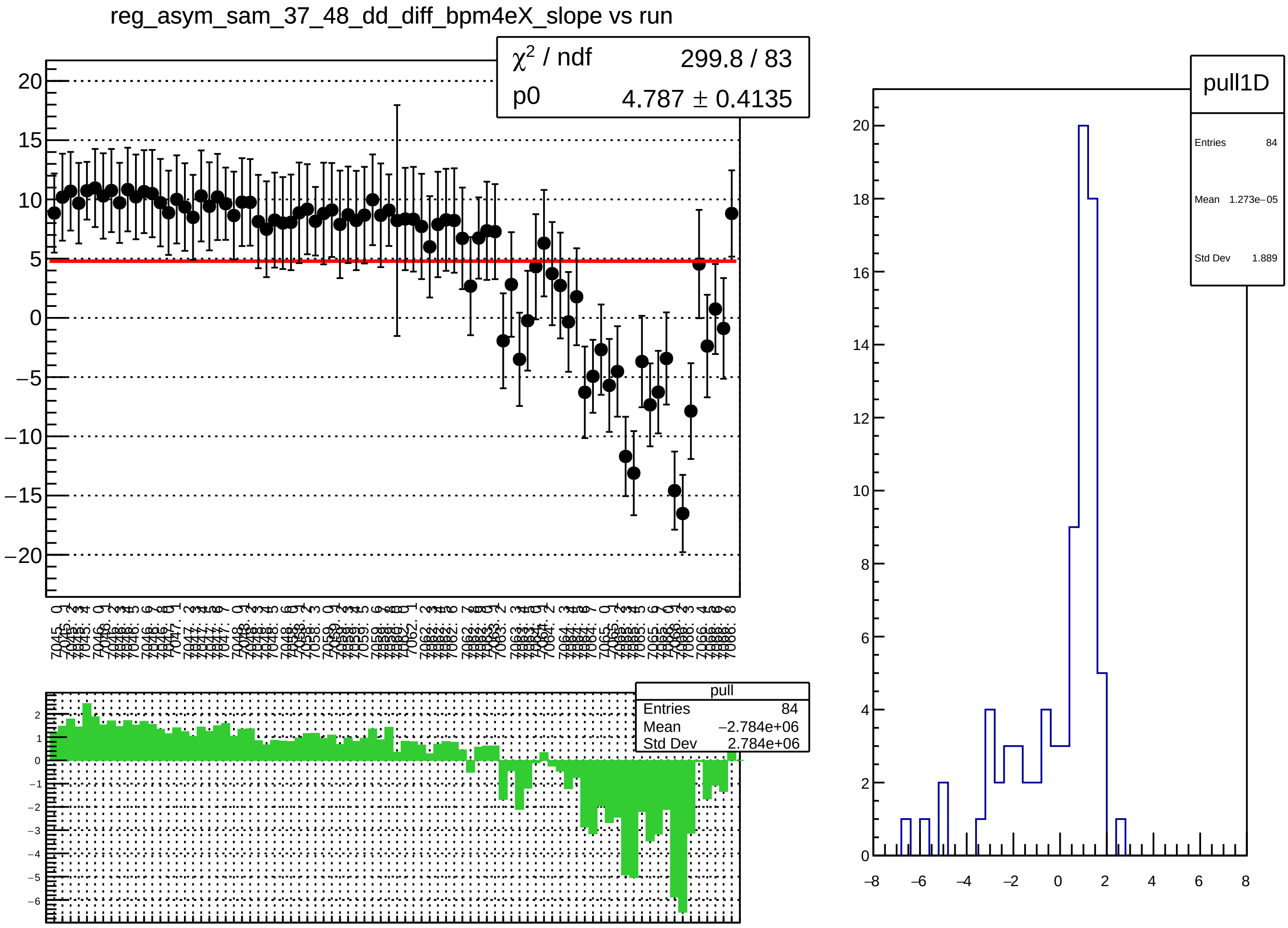

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ2 / ndf 182.9 / 83
p0 −35.2 ± 0.3822
pull
Entries 84
Mean −768.4
Std Dev 813.5
pull1D
Entries 84
Mean −0.03421
Std Dev 1.475



reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 18.99 / 83
p0 0.1866 ± 0.01819
pull
Entries 84
Mean 4913
Std Dev 4866
pull1D
Entries 84
Mean 0.001703
Std Dev 0.4755

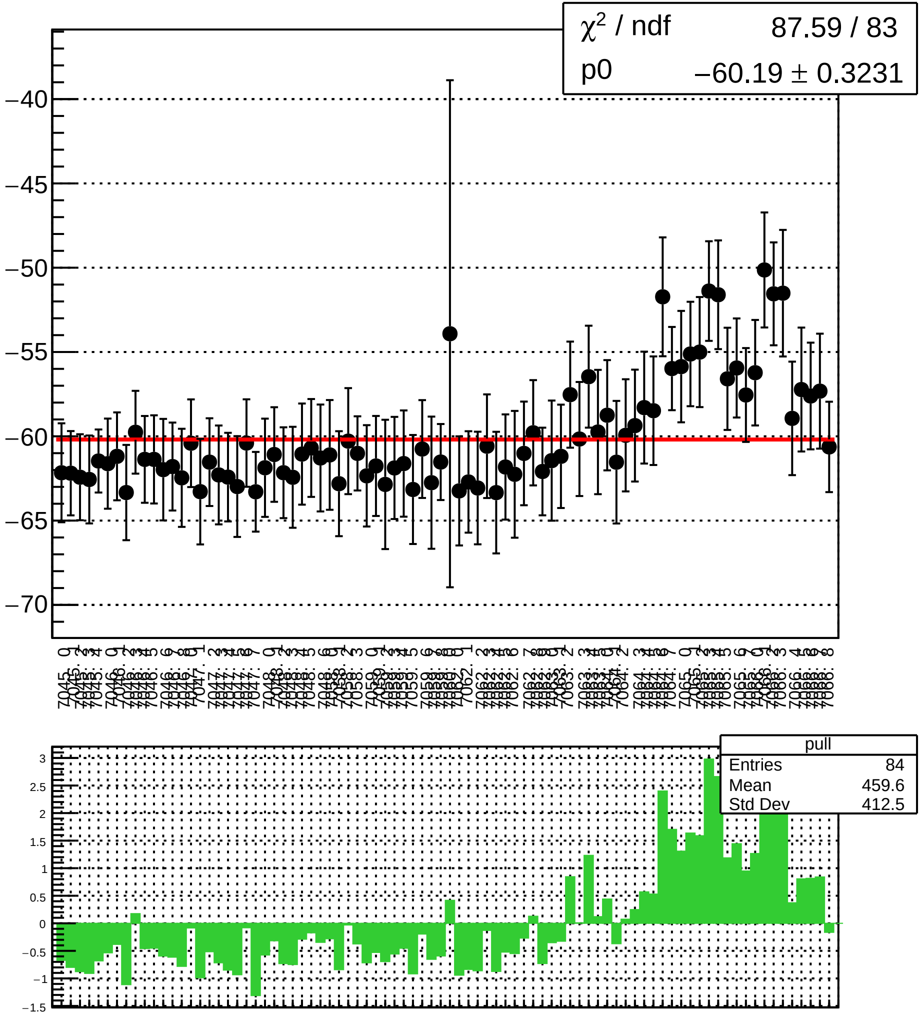

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ2 / ndf 314.2 / 83
p0 11.32 ± 0.434
40
35
30
25
20
15
10
5
0
−5
pull
Entries 84
Mean −1607
Std Dev 1652
6
4
2
0
−2
pull1D
Entries 84
Mean −0.02168
Std Dev 1.934
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

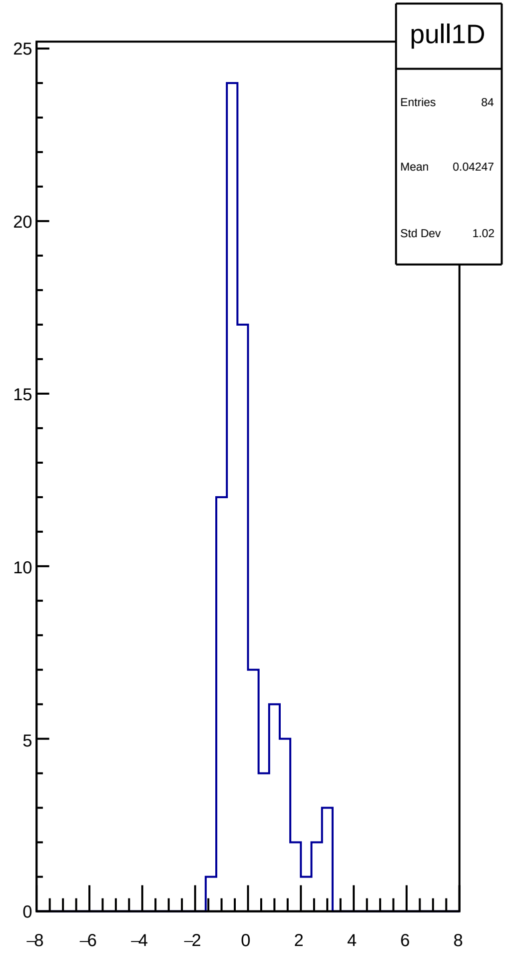

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 120.9 / 83
p0 7.276 ± 0.3028
pull
Entries 84
Mean 378.7
Std Dev 331.7
pull1D
Entries 84
Mean −0.06337
Std Dev 1.198

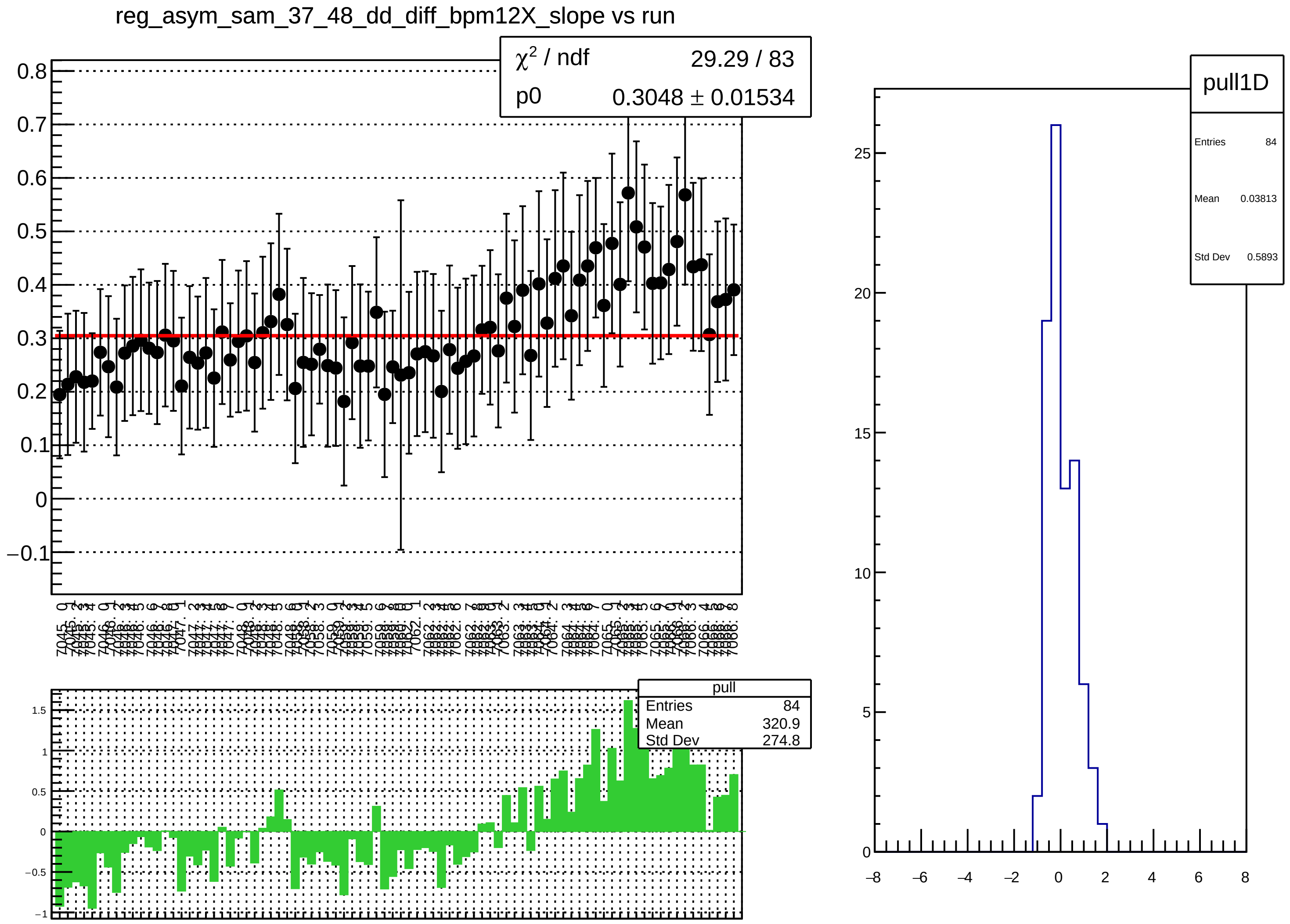


reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ2 / ndf 299.8 / 83
p0 4.787 ± 0.4135
pull
Entries 84
Mean −2.784e+06
Std Dev 2.784e+06
pull1D
Entries 84
Mean 1.273e−05
Std Dev 1.889

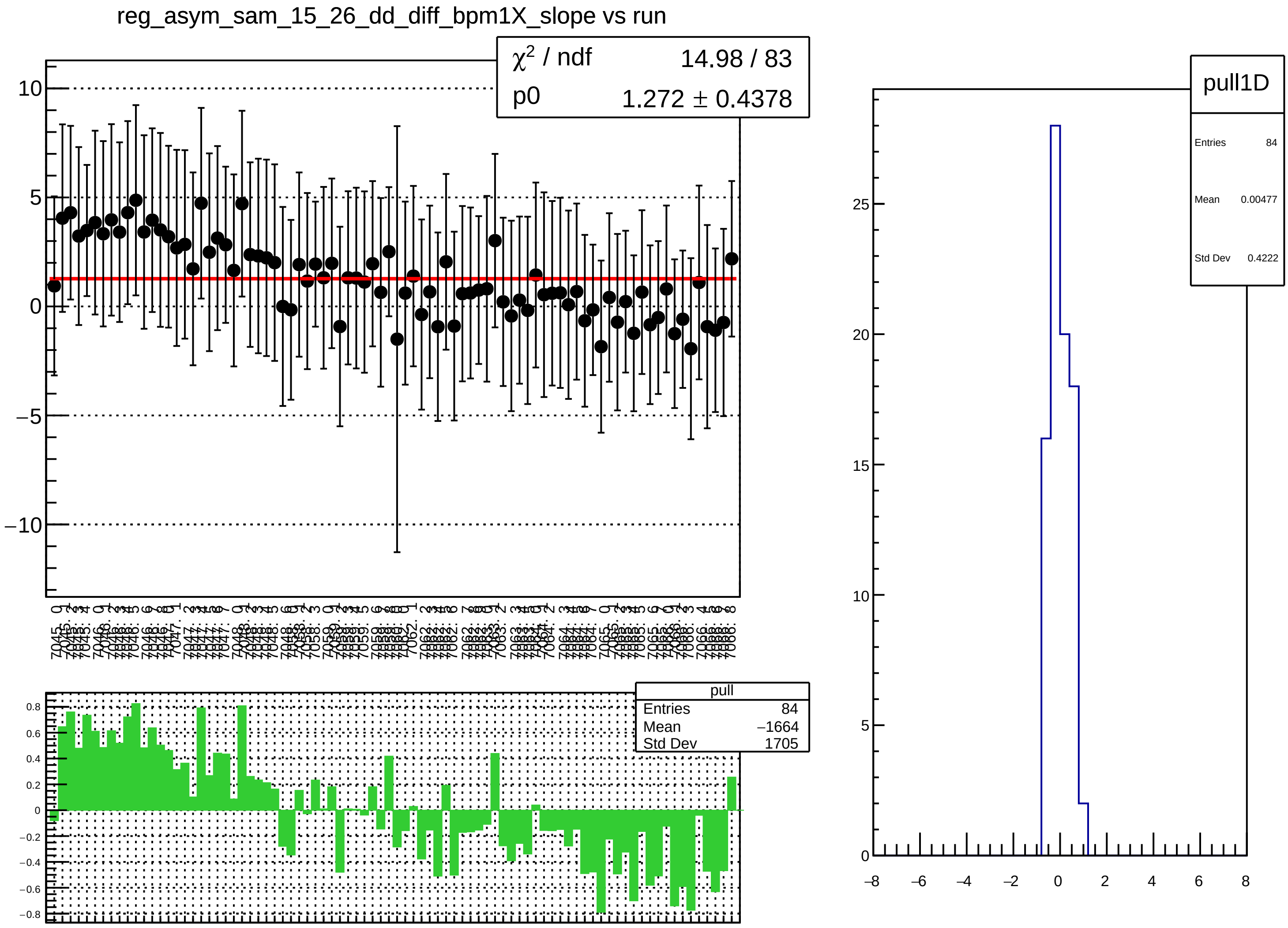
reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run

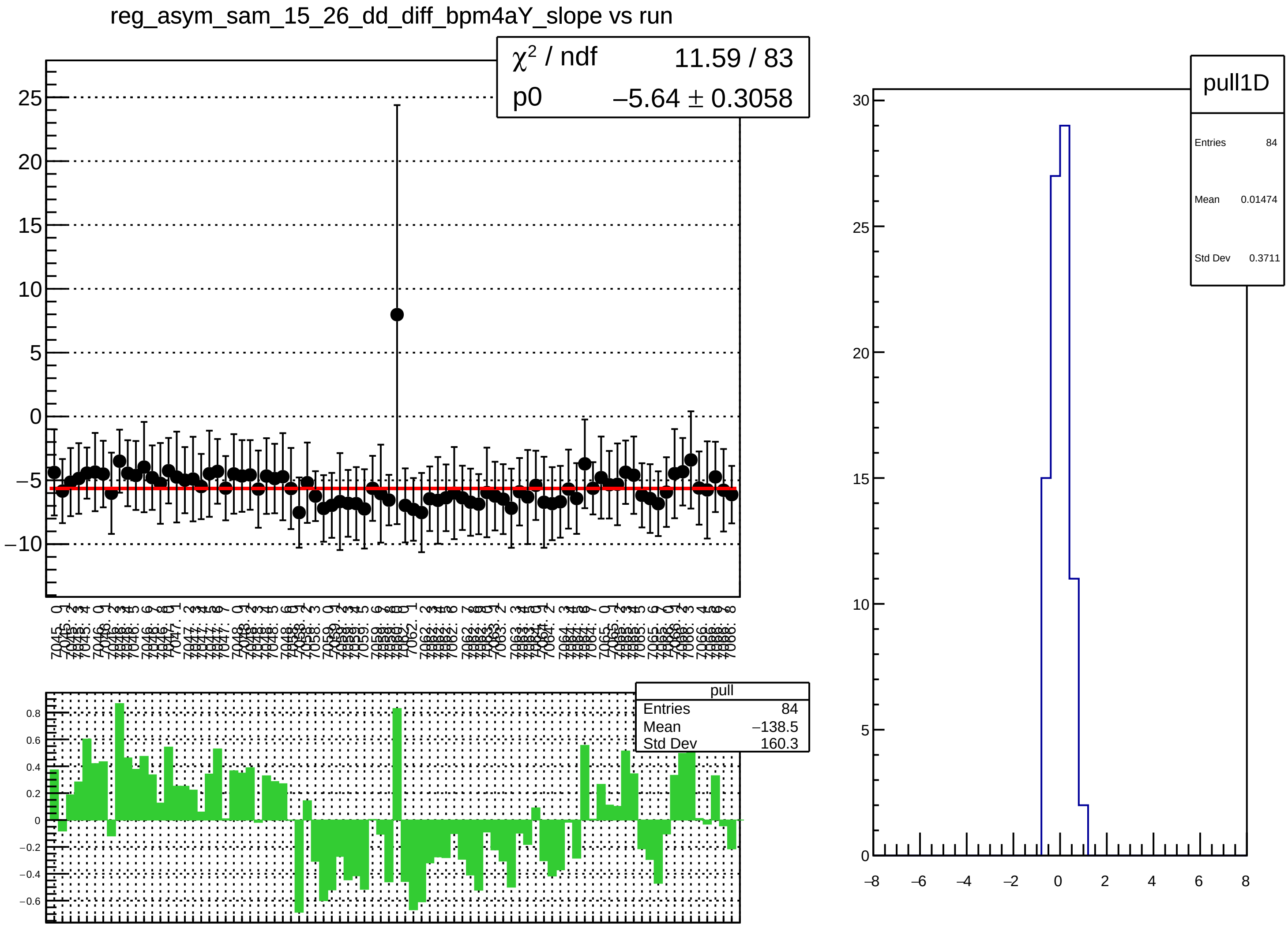


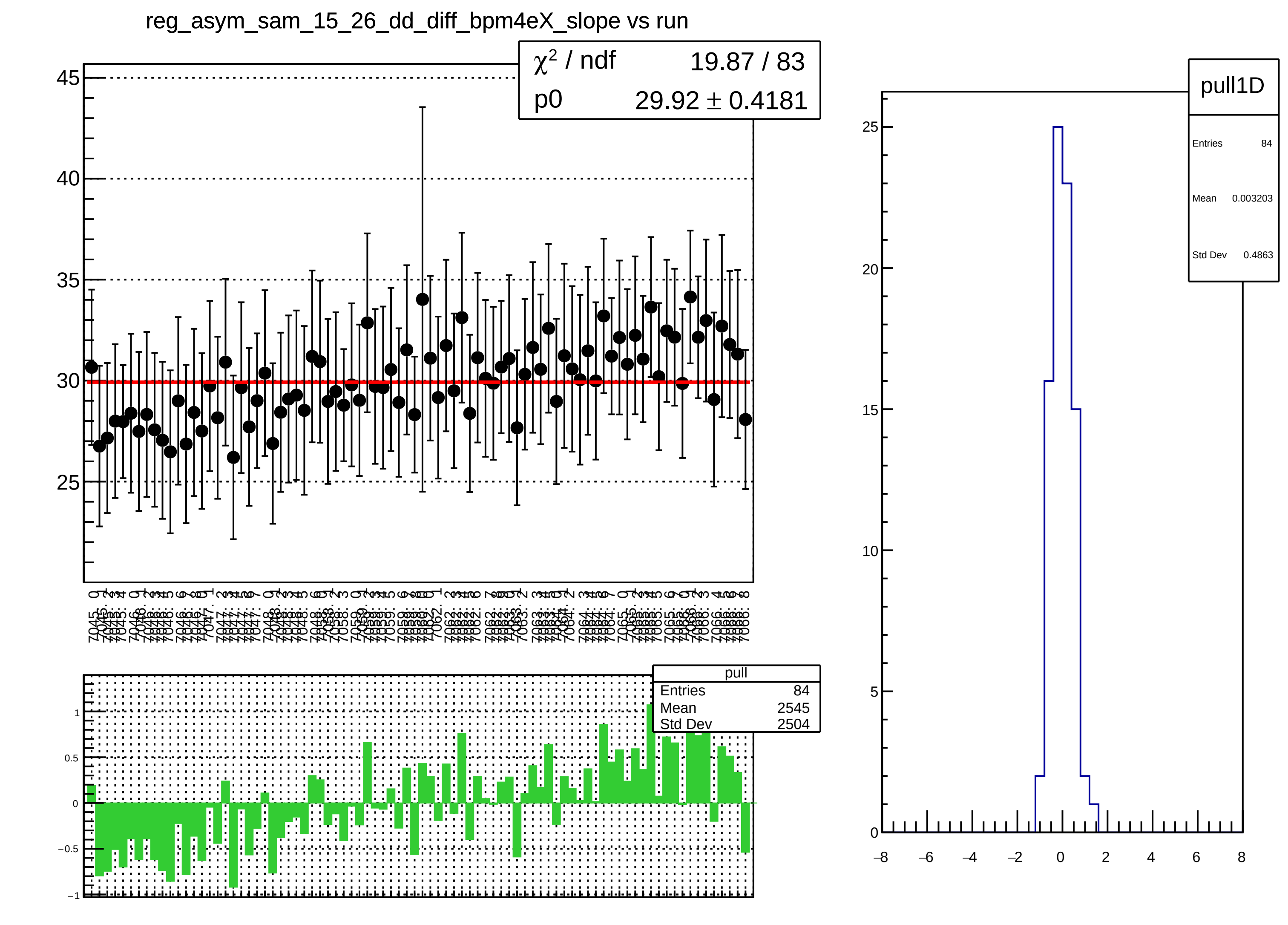


reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 29.29 / 83
p0 0.3048 ± 0.01534
pull
Entries 84
Mean 320.9
Std Dev 274.8
pull1D
Entries 84
Mean 0.03813
Std Dev 0.5893

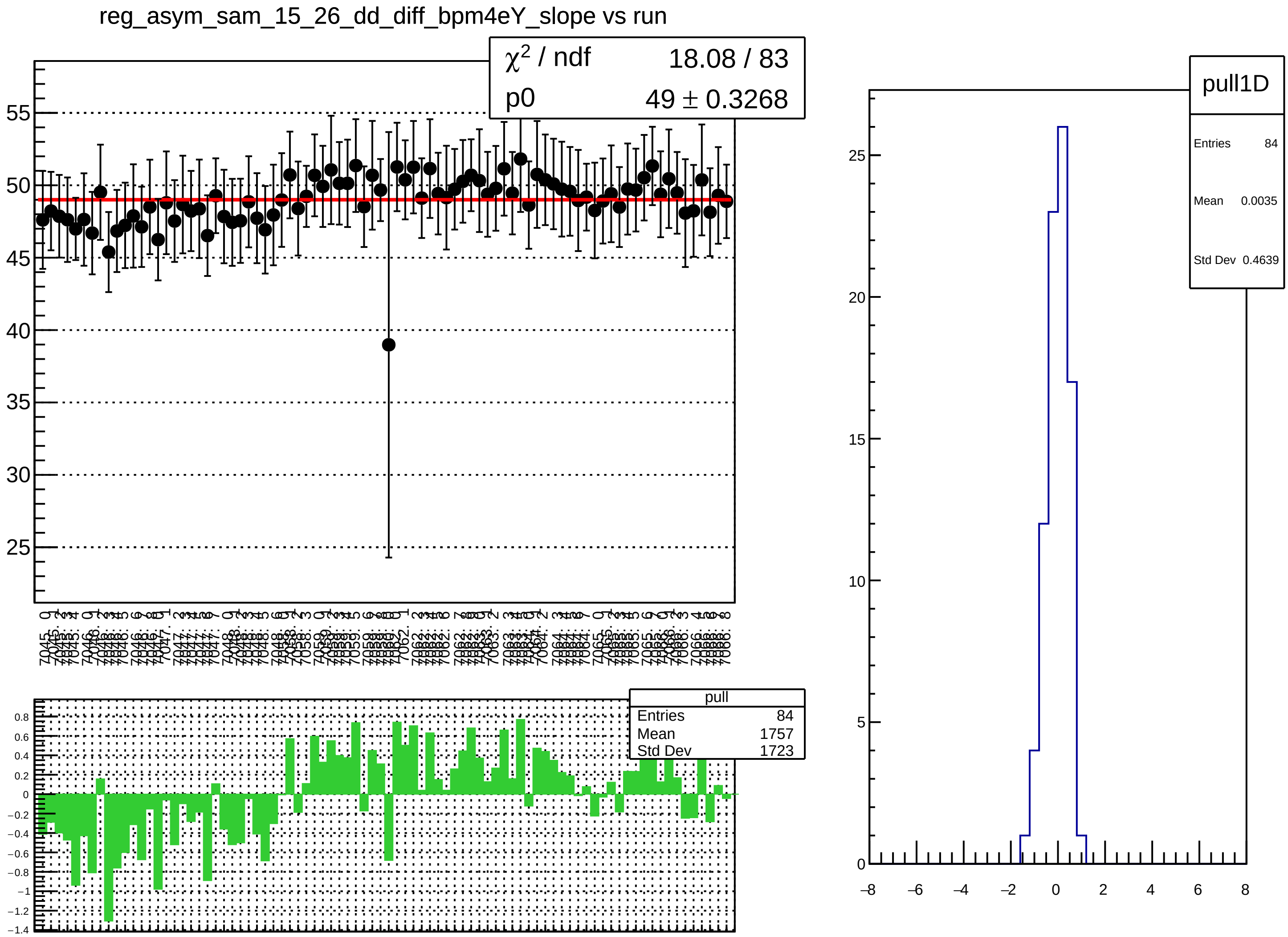

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 14.98 / 83
p0 1.272 ± 0.4378
pull
Entries 84
Mean −1664
Std Dev 1705
pull1D
Entries 84
Mean 0.00477
Std Dev 0.4222



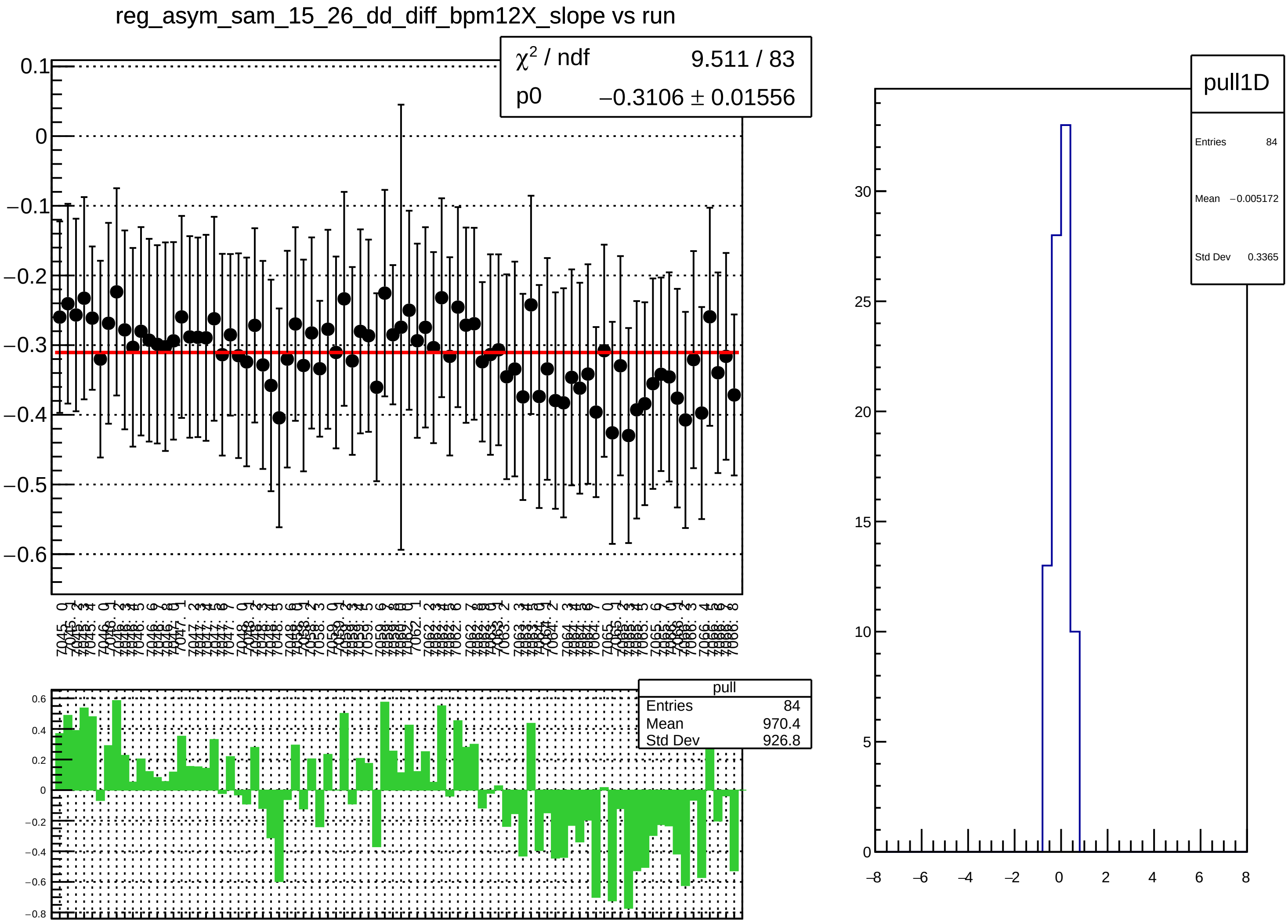
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 11.59 / 83
p0 −5.64 ± 0.3058
pull
Entries 84
Mean −138.5
Std Dev 160.3
pull1D
Entries 84
Mean 0.01474
Std Dev 0.3711

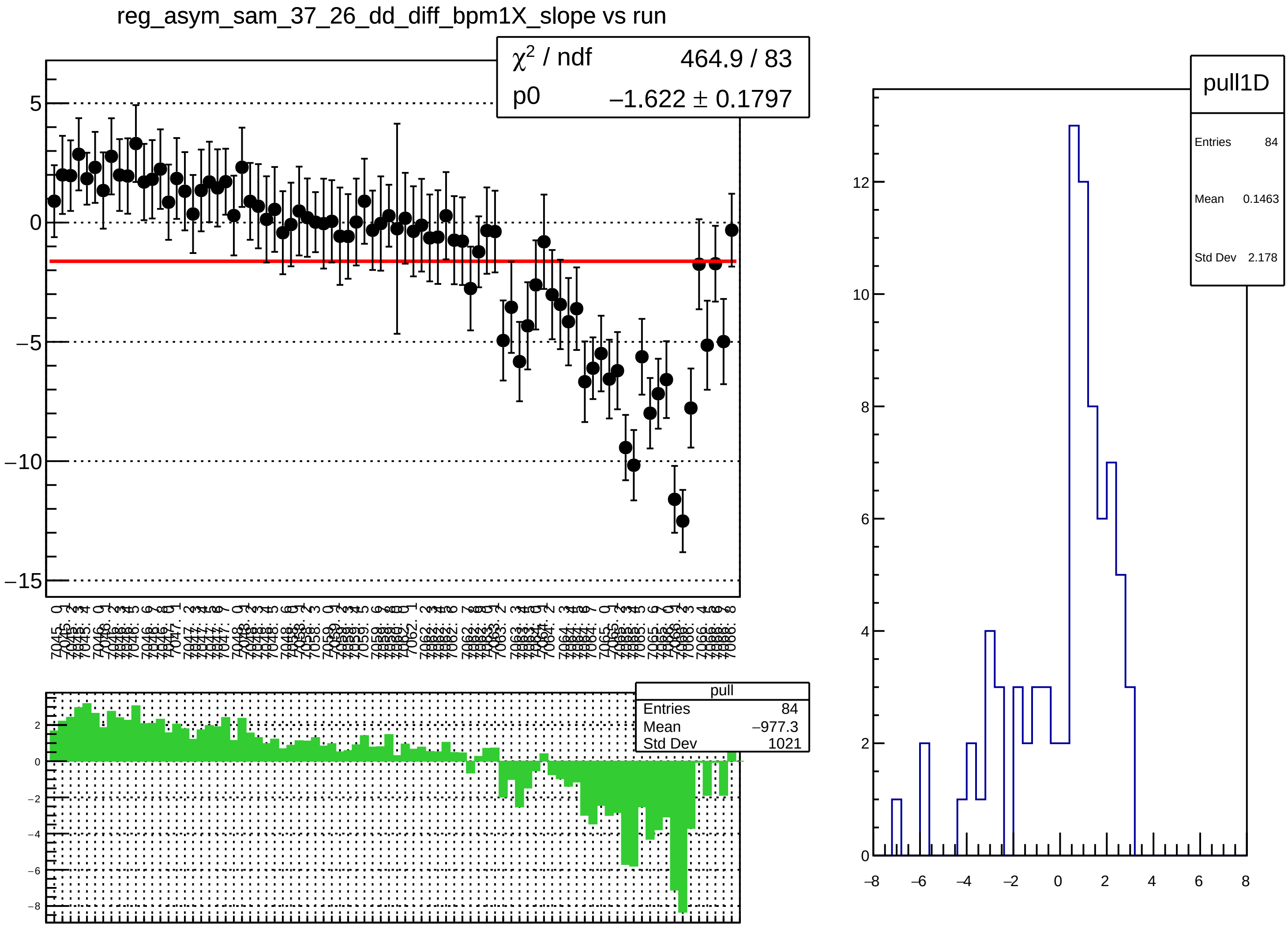


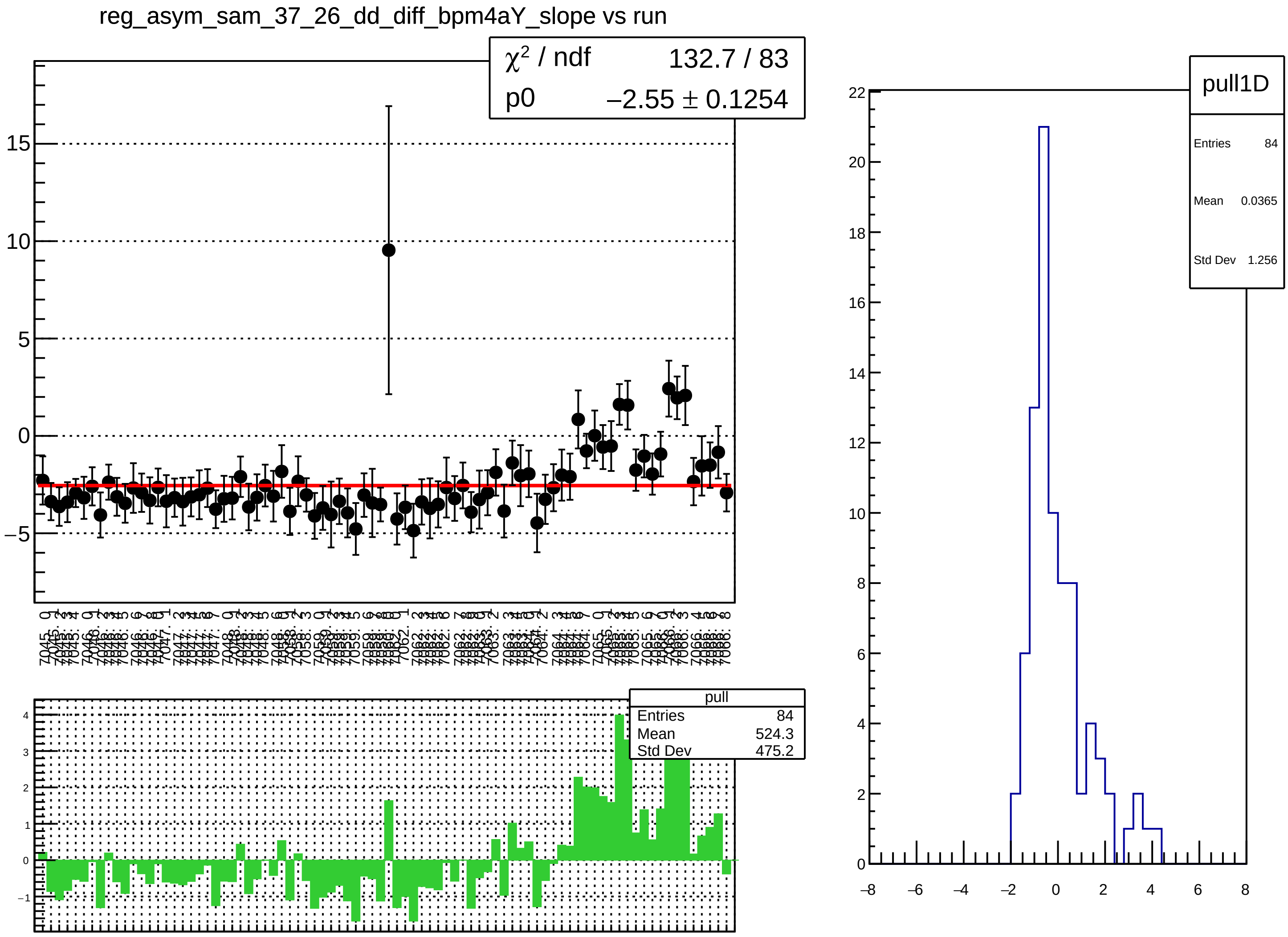
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 19.87 / 83
p0 29.92 ± 0.4181
pull
Entries 84
Mean 2545
Std Dev 2504
pull1D
Entries 84
Mean 0.003203
Std Dev 0.4863



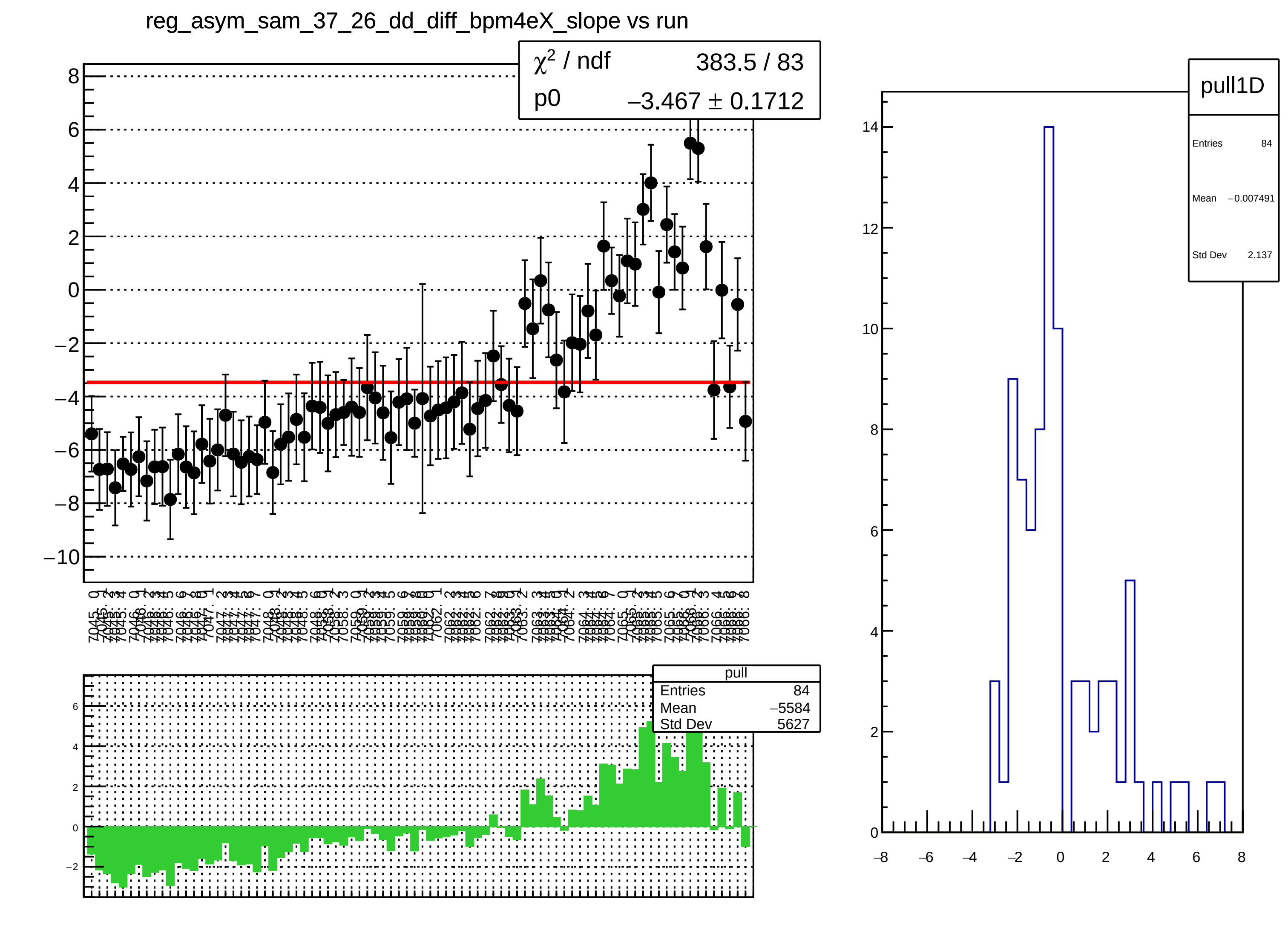
reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ2 / ndf 18.08 / 83
p0 49 ± 0.3268
pull
Entries 84
Mean 1757
Std Dev 1723
pull1D
Entries 84
Mean 0.0035
Std Dev 0.4639


reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 9.511 / 83
p0 −0.3106 ± 0.01556
pull
Entries 84
Mean 970.4
Std Dev 926.8
pull1D
Entries 84
Mean −0.005172
Std Dev 0.3365

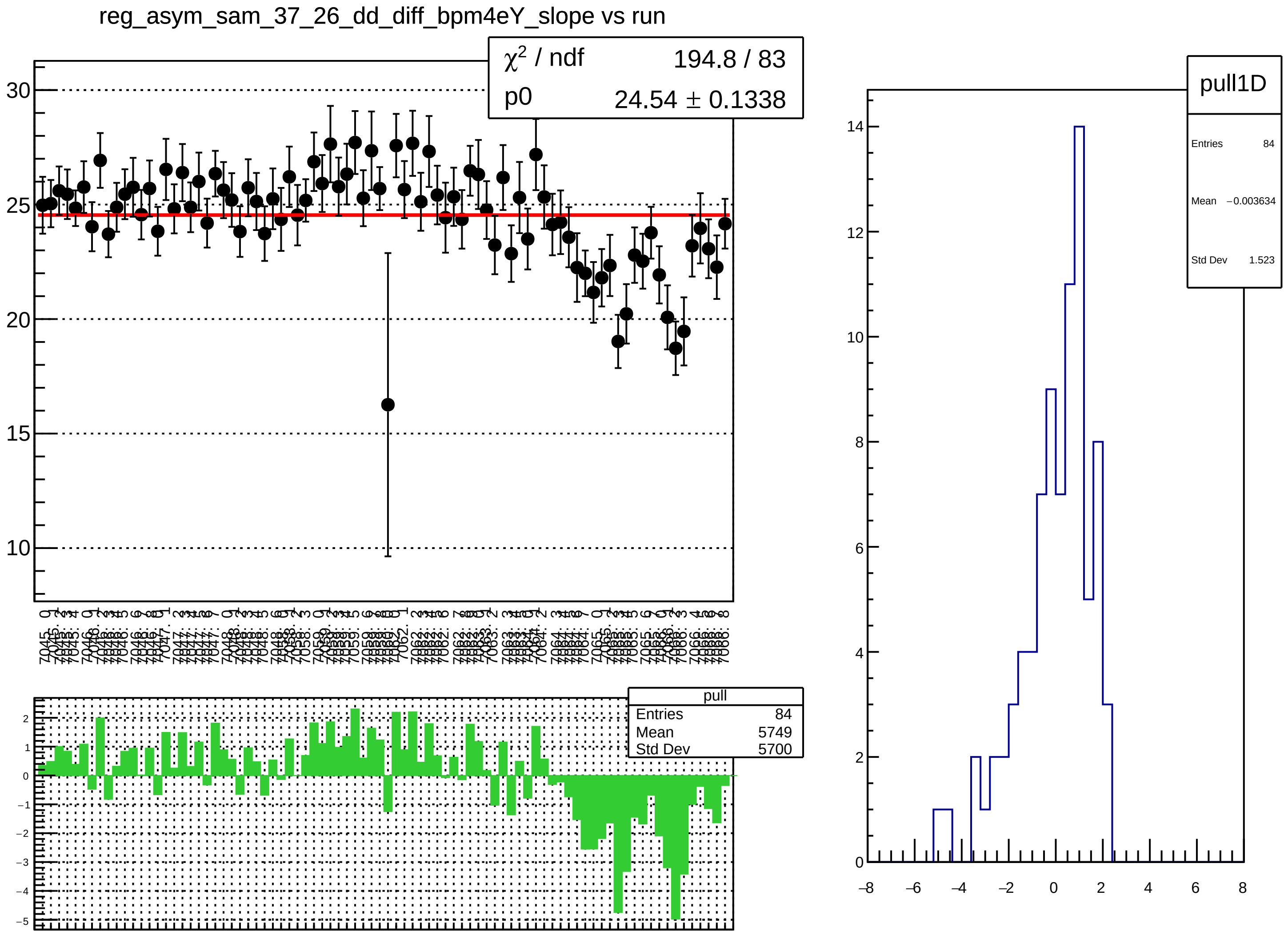

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 464.9 / 83
p0 −1.622 ± 0.1797
pull
Entries 84
Mean −977.3
Std Dev 1021
pull1D
Entries 84
Mean 0.1463
Std Dev 2.178



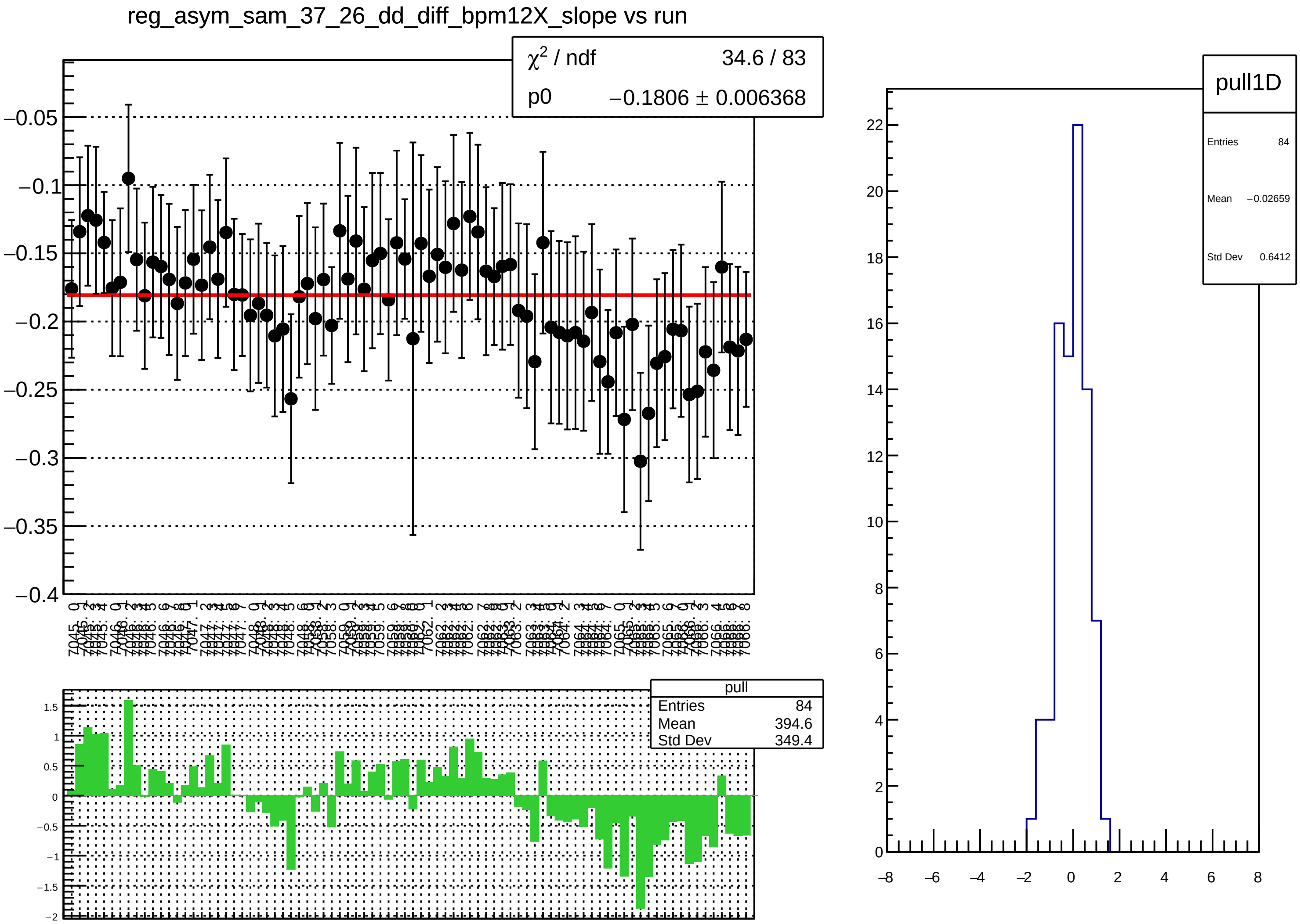
reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 132.7 / 83
p0 −2.55 ± 0.1254
pull
Entries 84
Mean 524.3
Std Dev 475.2
pull1D
Entries 84
Mean 0.0365
Std Dev 1.256



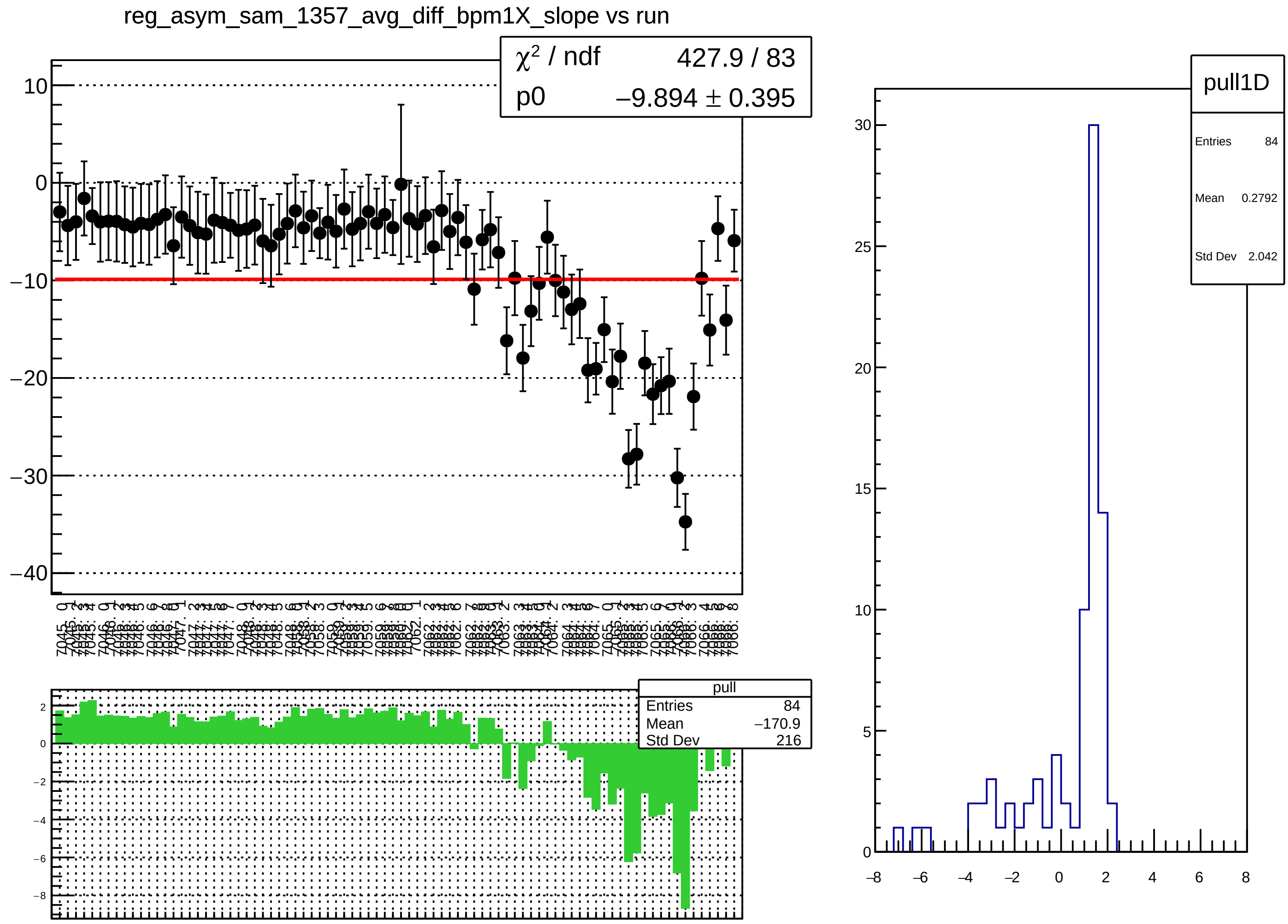
reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 383.5 / 83
p0 −3.467 ± 0.1712
pull
Entries 84
Mean −5584
Std Dev 5627
pull1D
Entries 84
Mean −0.007491
Std Dev 2.137



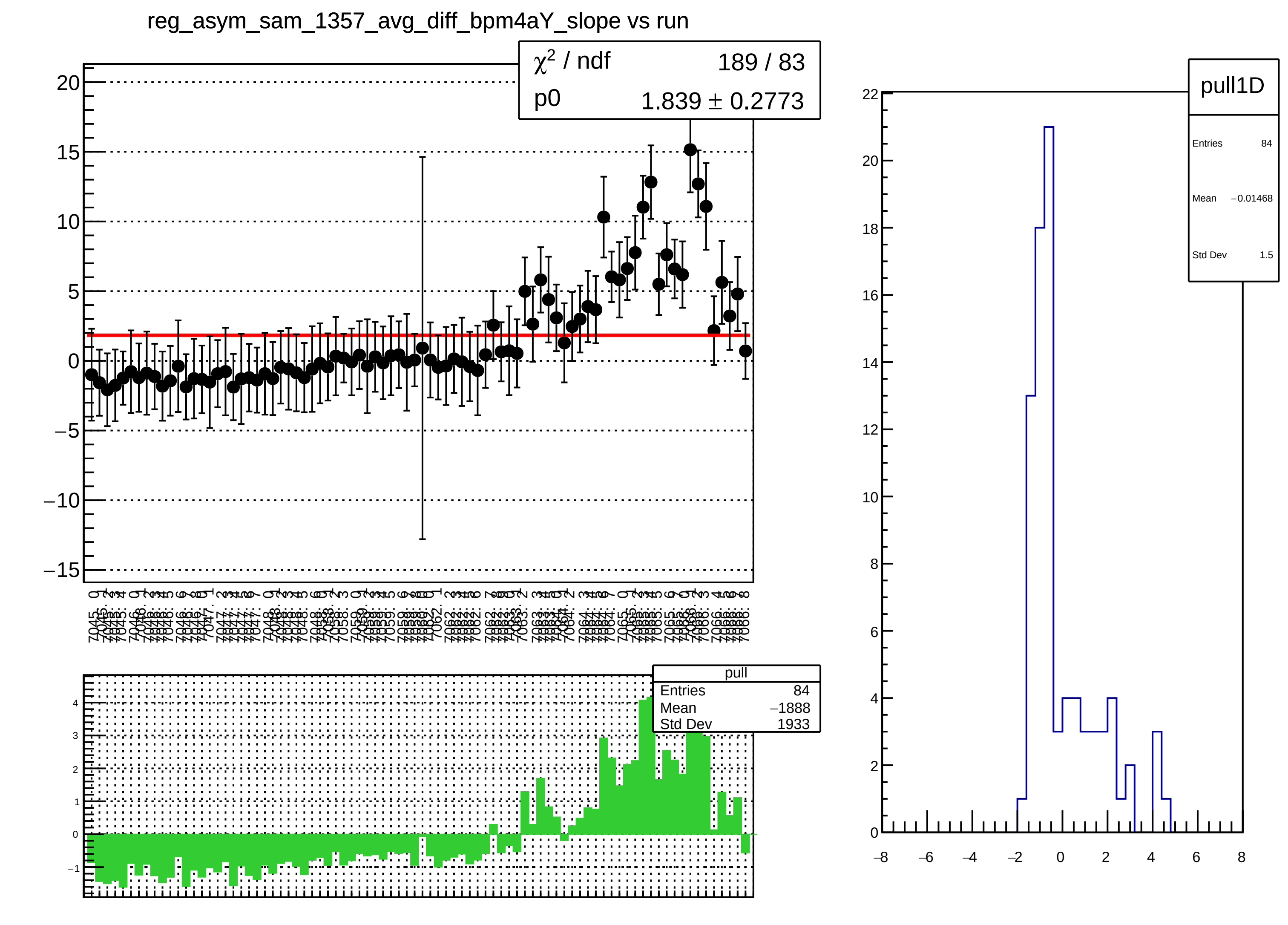
reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 194.8 / 83
p0 24.54 ± 0.1338
pull
Entries 84
Mean 5749
Std Dev 5700
pull1D
Entries 84
Mean −0.003634
Std Dev 1.523



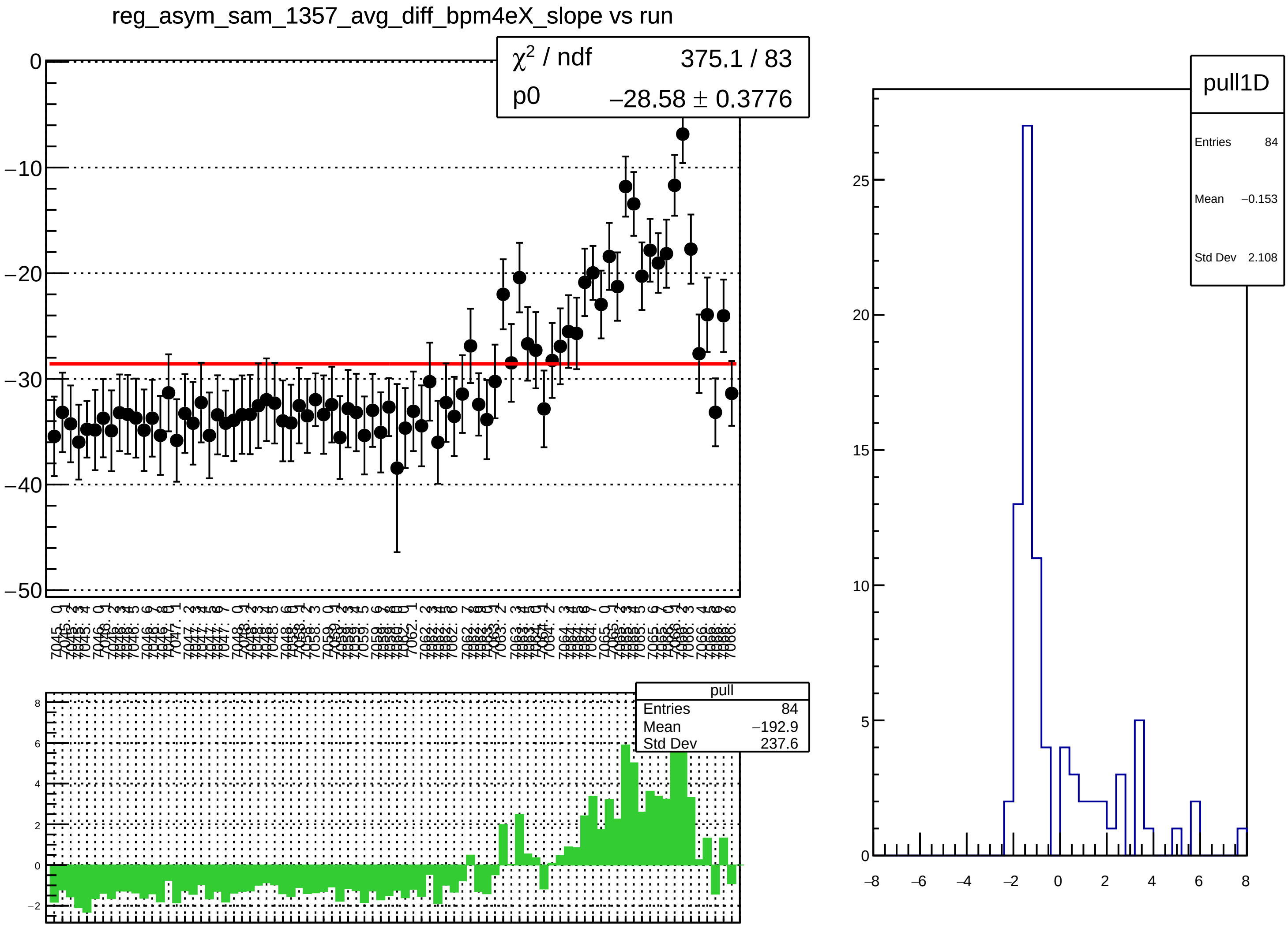
reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 34.6 / 83
p0 −0.1806 ± 0.006368
pull
Entries 84
Mean 394.6
Std Dev 349.4
pull1D
Entries 84
Mean −0.02659
Std Dev 0.6412



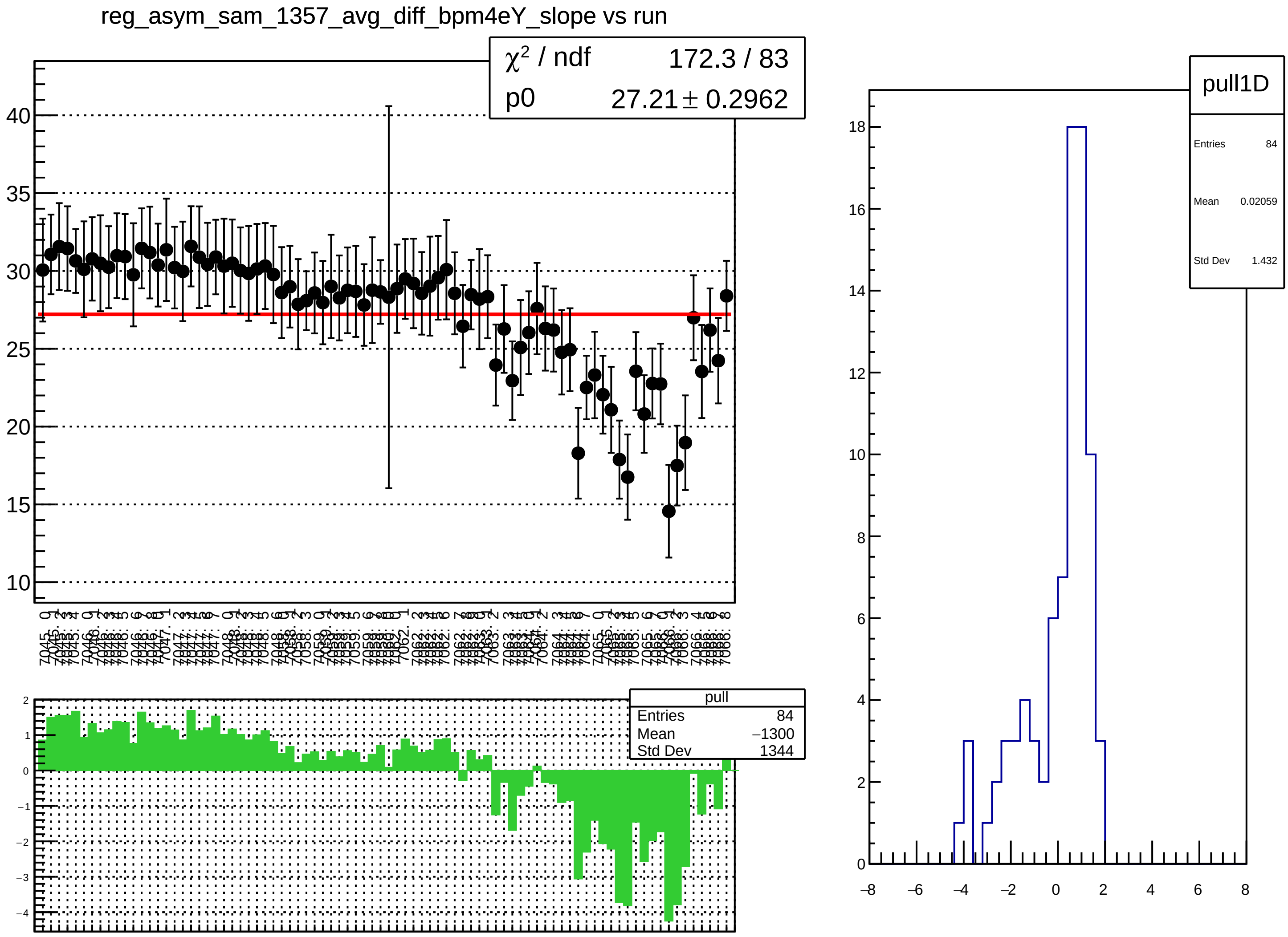
reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 427.9 / 83
p0 −9.894 ± 0.395
pull
Entries 84
Mean −170.9
Std Dev 216
pull1D
Entries 84
Mean 0.2792
Std Dev 2.042

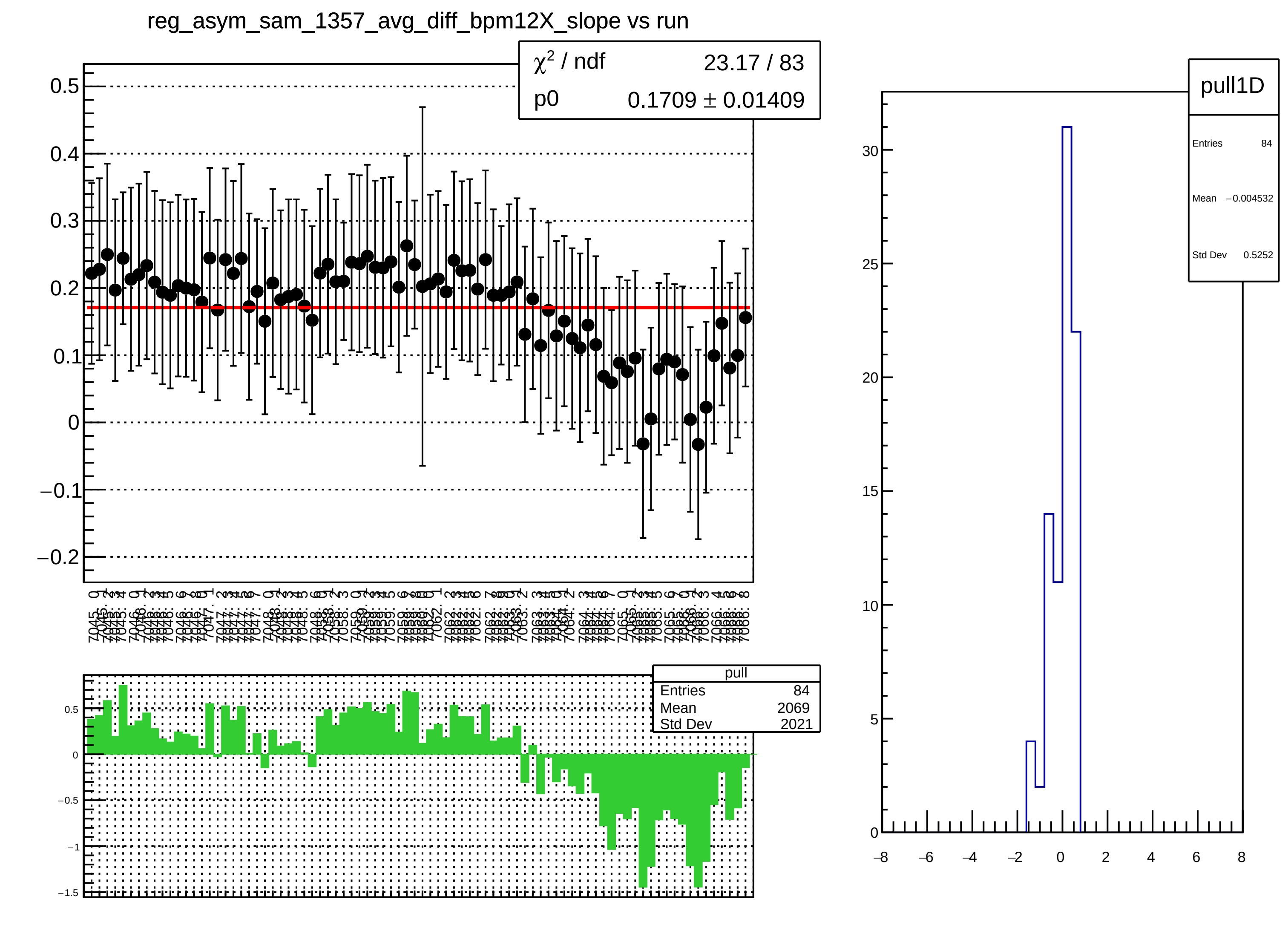


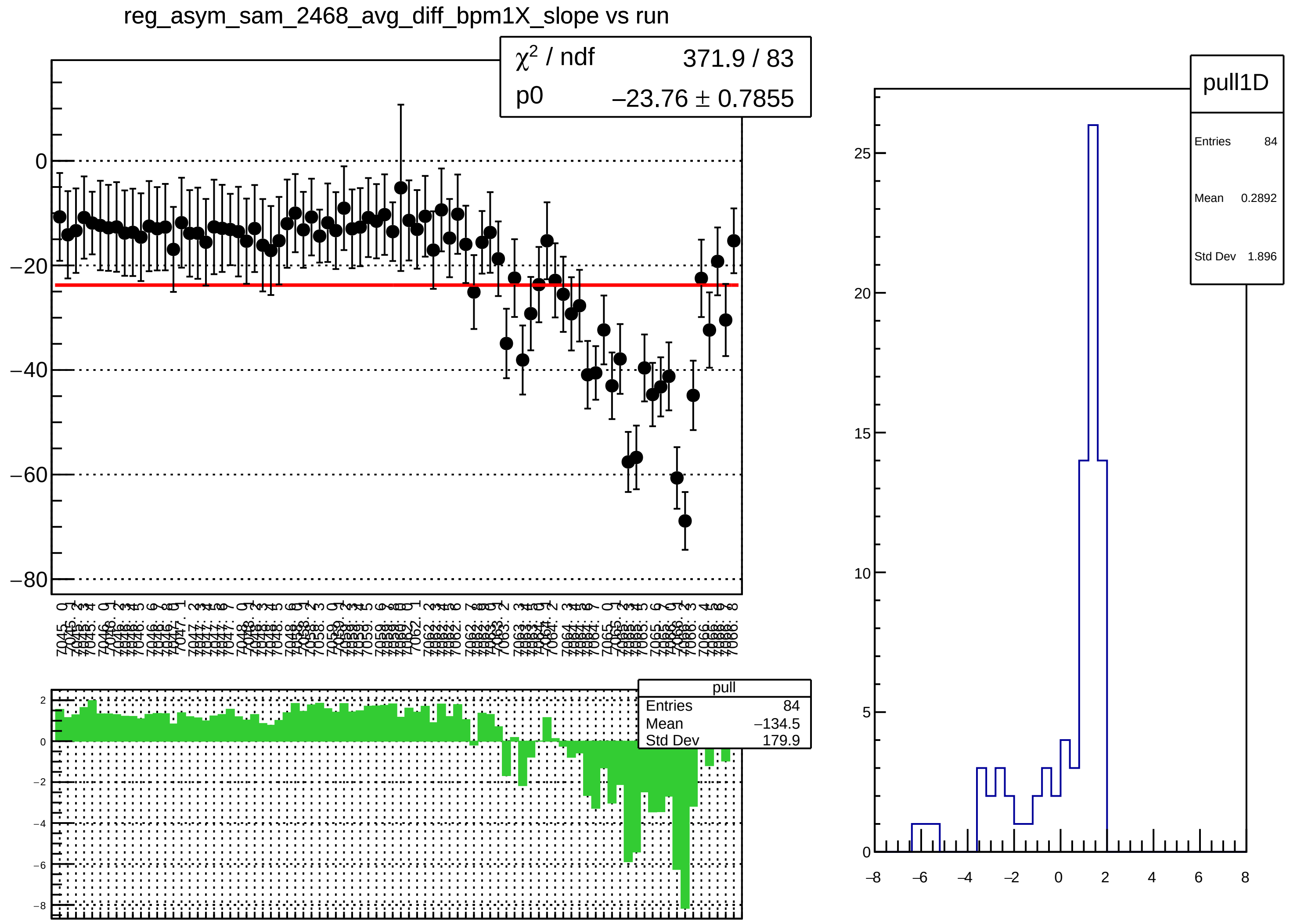
reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ2 / ndf 189 / 83
p0 1.839 ± 0.2773
pull
Entries 84
Mean −1888
Std Dev 1933
pull1D
Entries 84
Mean −0.01468
Std Dev 1.5



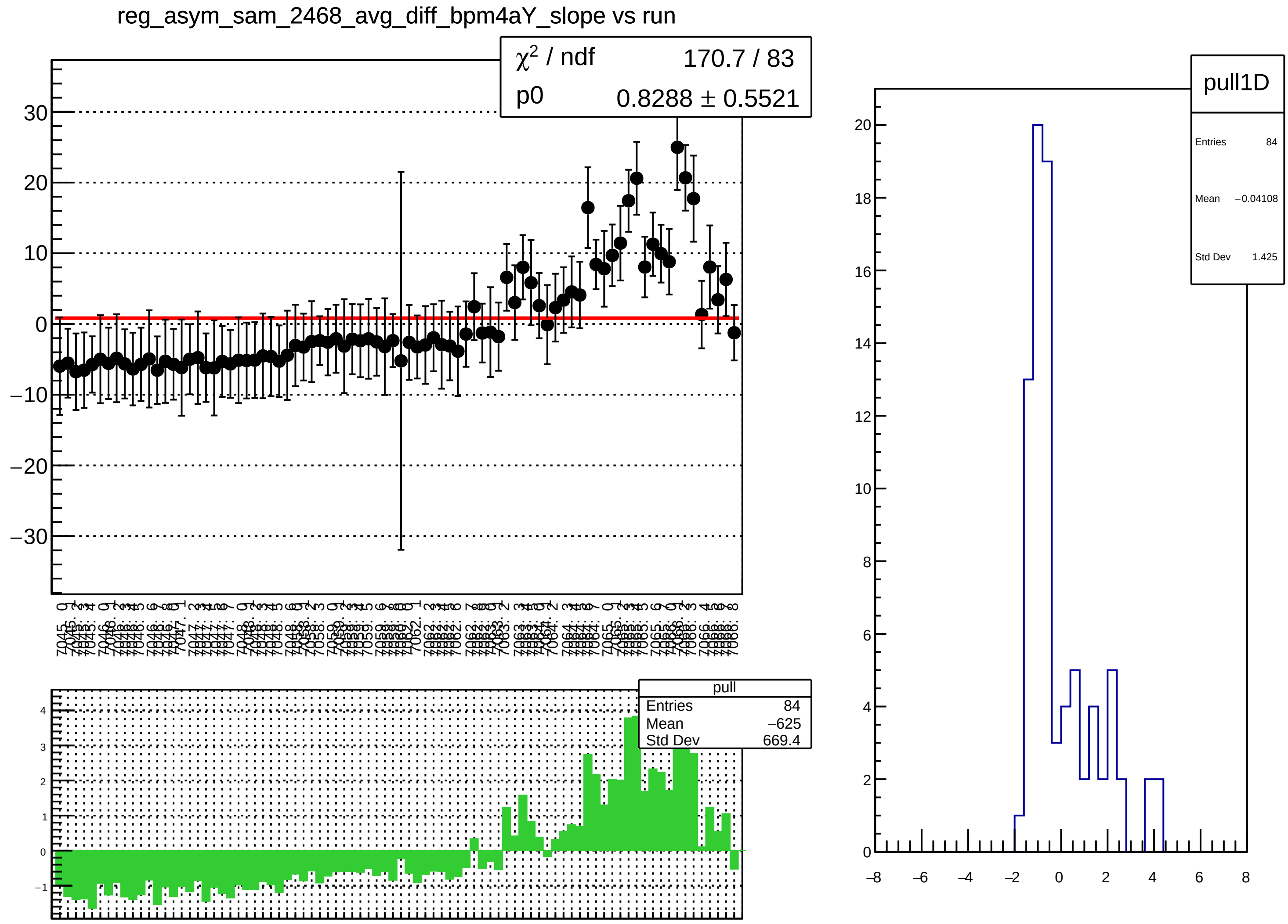
reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 375.1 / 83
p0 −28.58 ± 0.3776
pull
Entries 84
Mean −192.9
Std Dev 237.6
pull1D
Entries 84
Mean −0.153
Std Dev 2.108

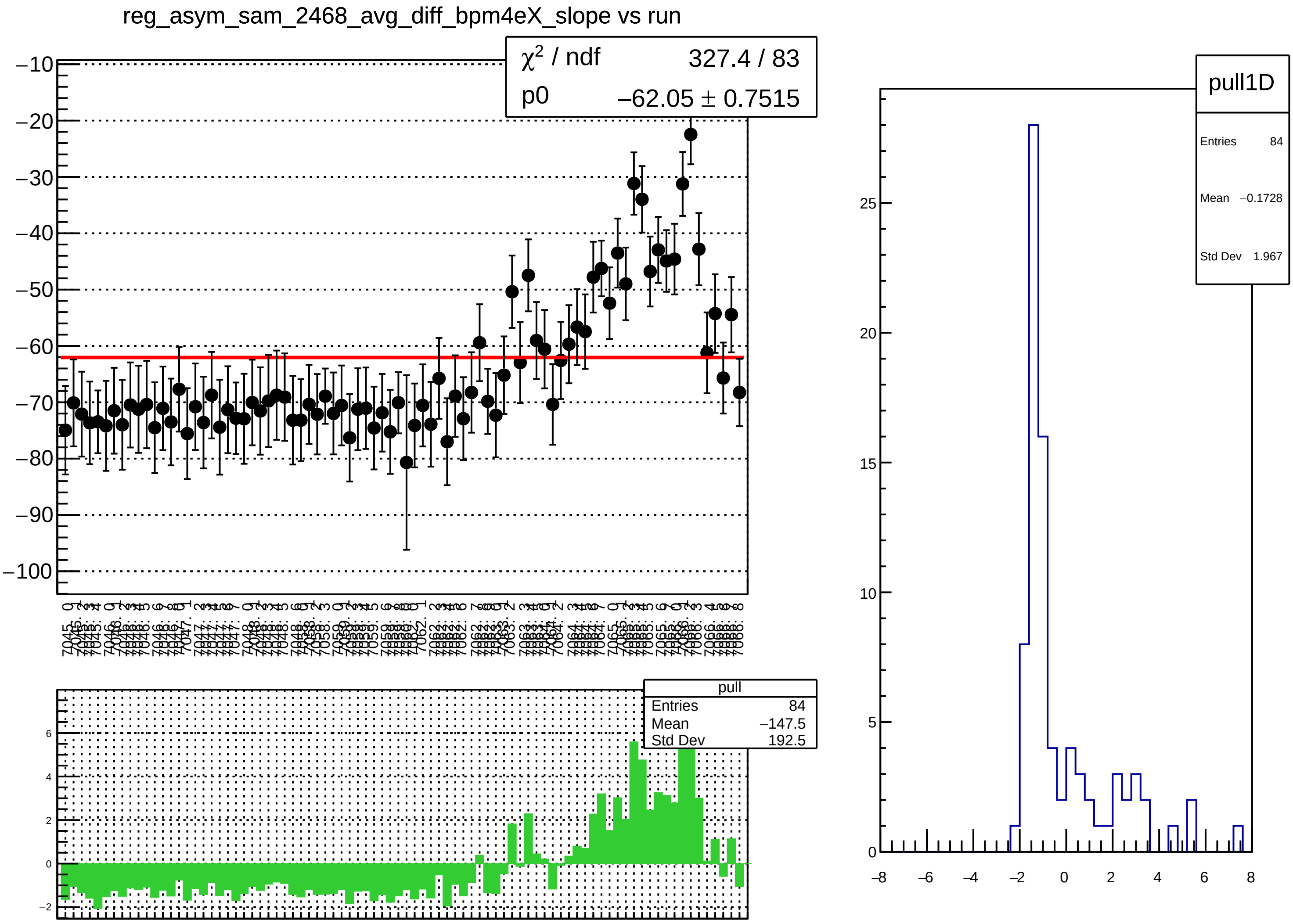

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 172.3 / 83
p0 27.21 ± 0.2962
pull
Entries 84
Mean −1300
Std Dev 1344
pull1D
Entries 84
Mean 0.02059
Std Dev 1.432


reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 23.17 / 83
p0 0.1709 ± 0.01409
pull
Entries 84
Mean 2069
Std Dev 2021
pull1D
Entries 84
Mean −0.004532
Std Dev 0.5252

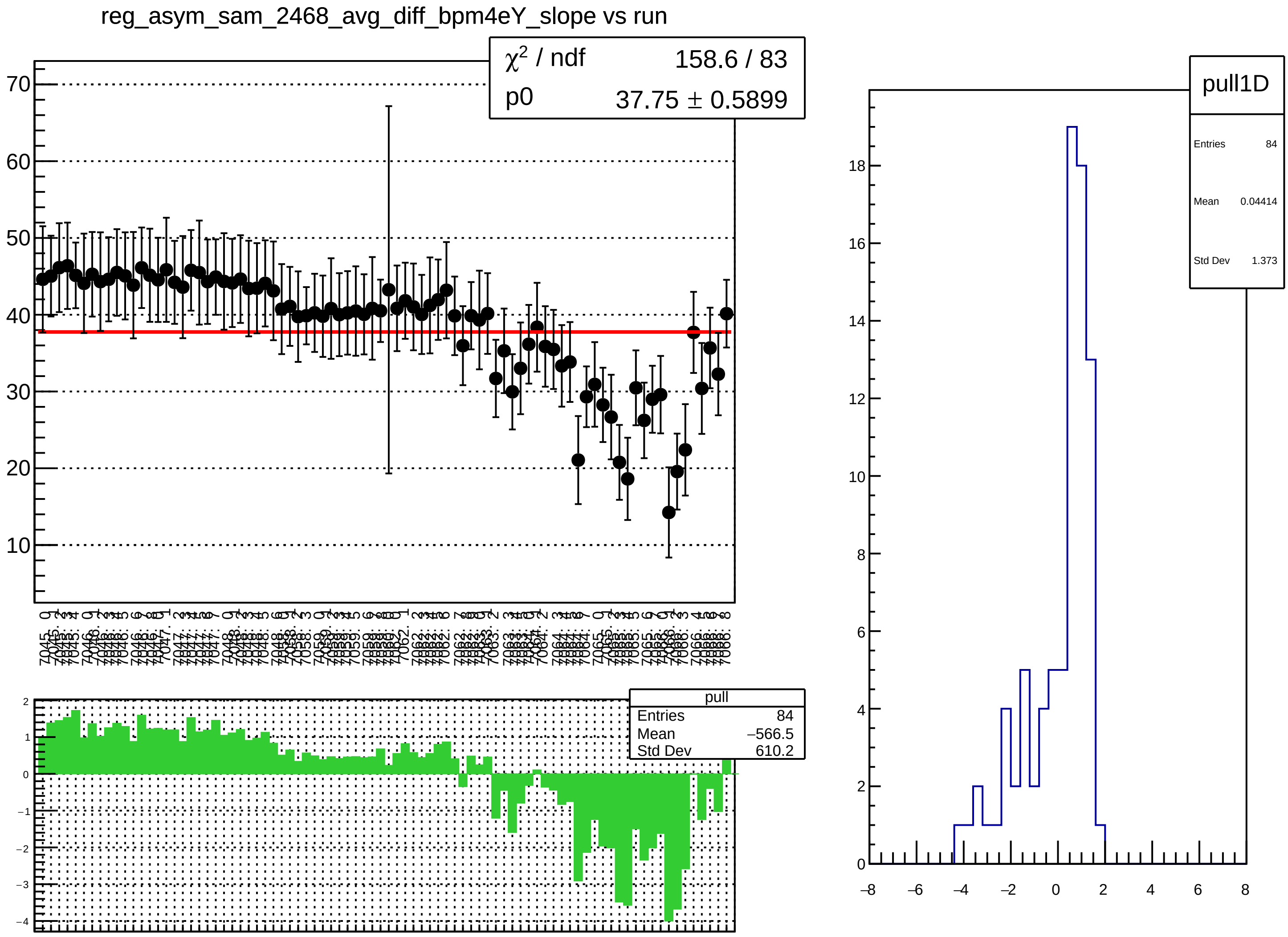


reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 371.9 / 83
p0 −23.76 ± 0.7855
pull
Entries 84
Mean −134.5
Std Dev 179.9
pull1D
Entries 84
Mean 0.2892
Std Dev 1.896

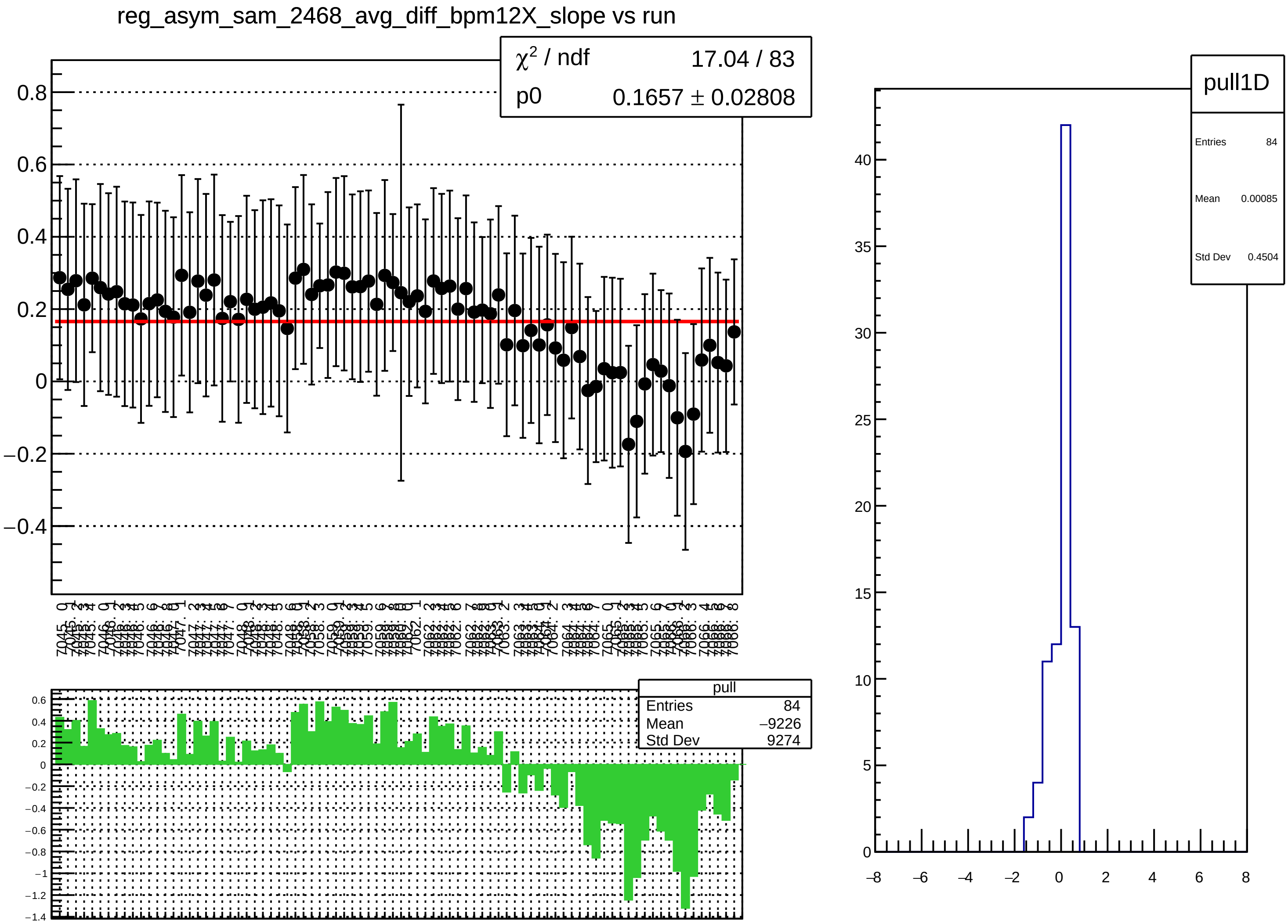

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 170.7 / 83
p0 0.8288 ± 0.5521
30
20
10
0
−10
−20
−30
pull
Entries 84
Mean −625
Std Dev 669.4
4
3
2
1
0
−1
pull1D
Entries 84
Mean −0.04108
Std Dev 1.425
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



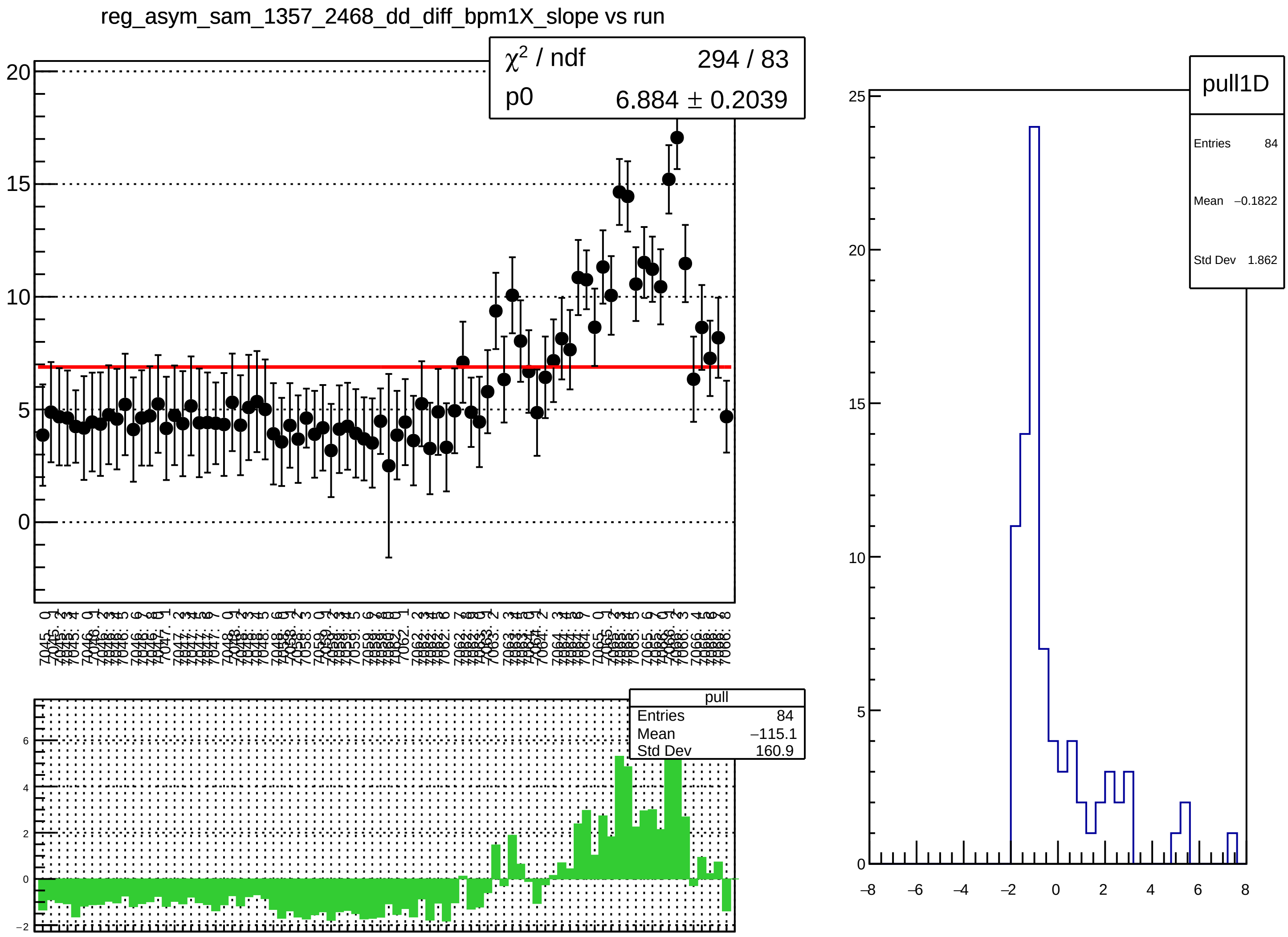
reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ2 / ndf 327.4 / 83
p0 −62.05 ± 0.7515
pull
Entries 84
Mean −147.5
Std Dev 192.5
pull1D
Entries 84
Mean −0.1728
Std Dev 1.967

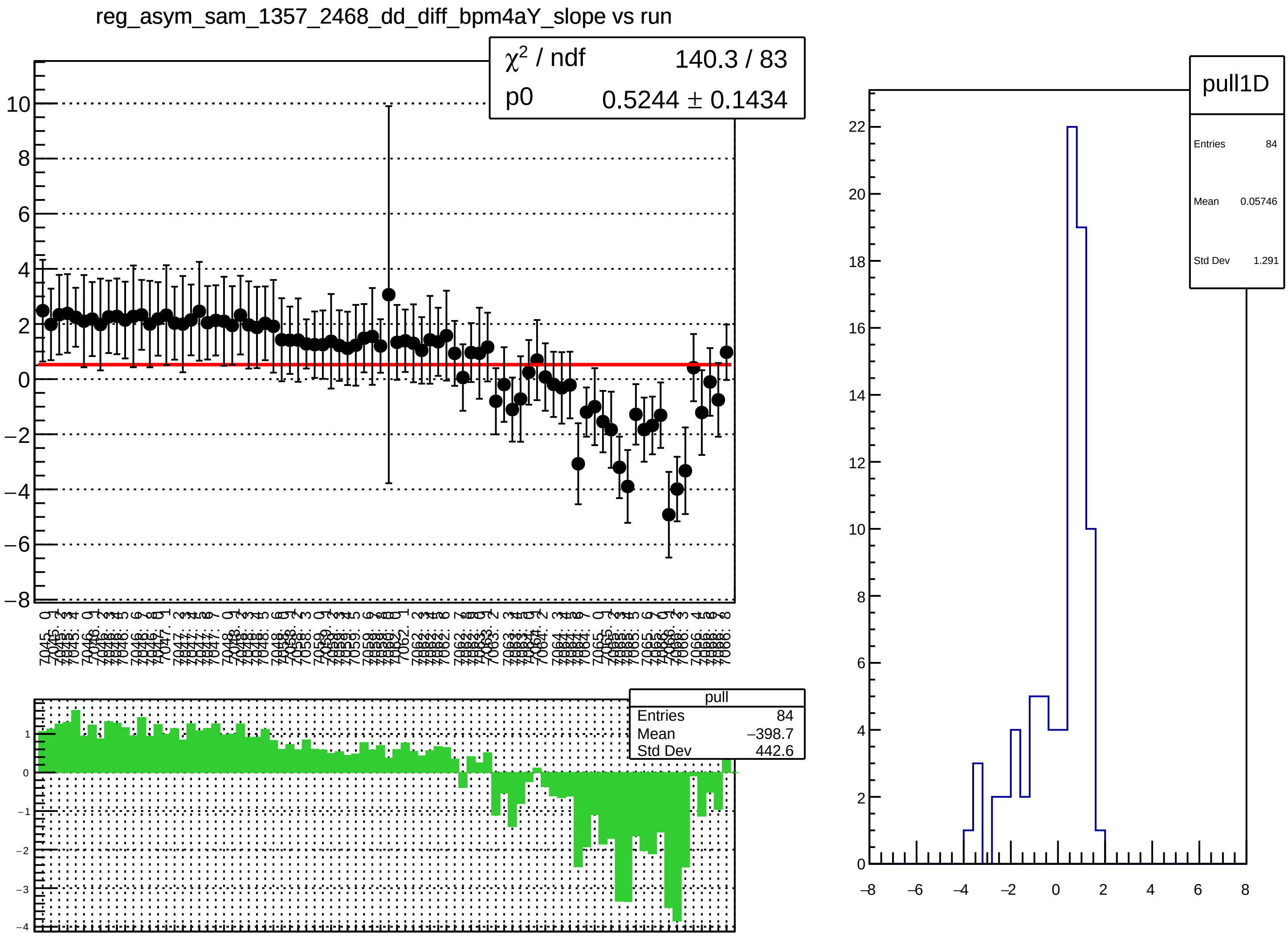


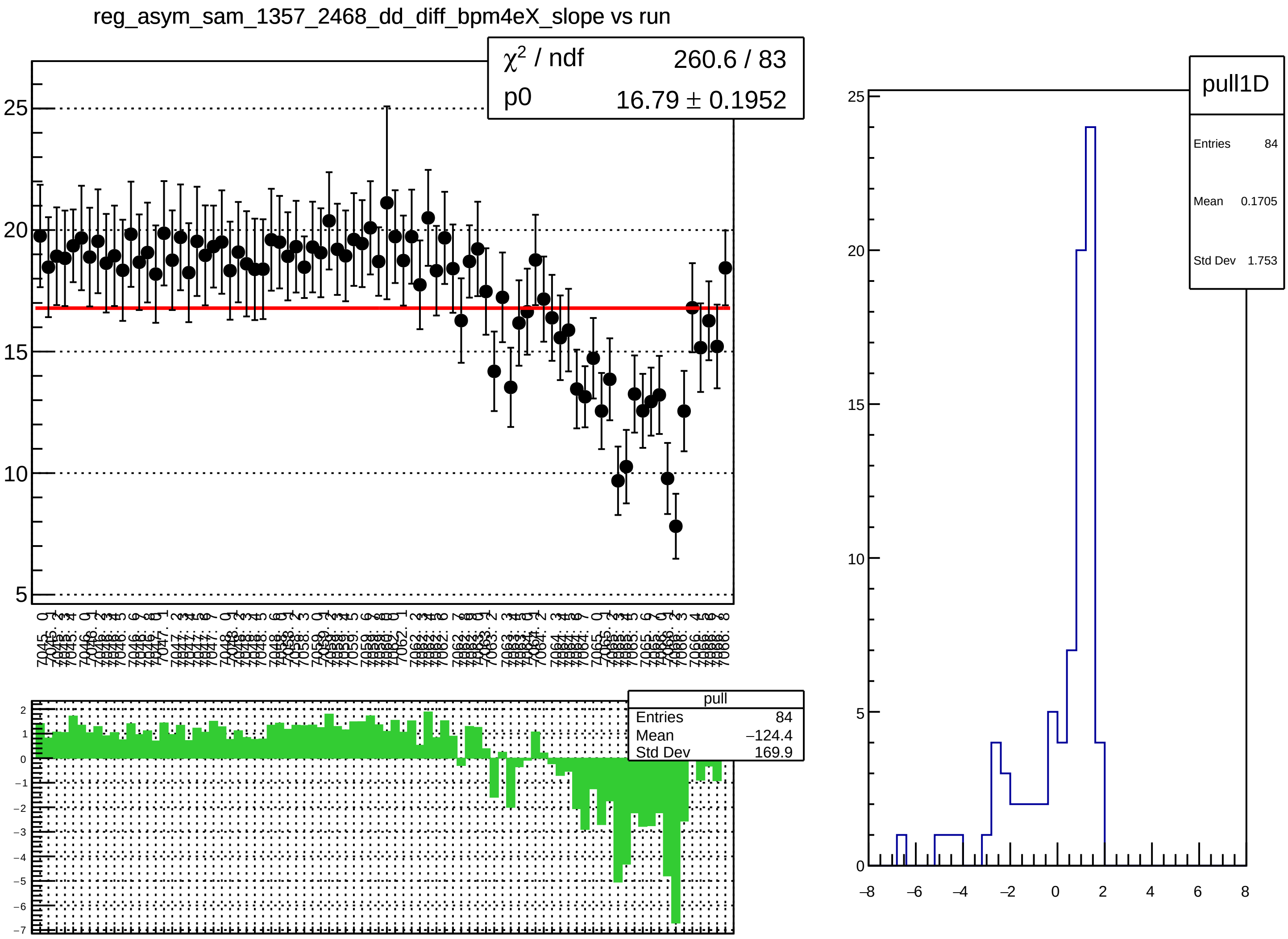
reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 158.6 / 83
p0 37.75 ± 0.5899
pull
Entries 84
Mean −566.5
Std Dev 610.2
pull1D
Entries 84
Mean 0.04414
Std Dev 1.373



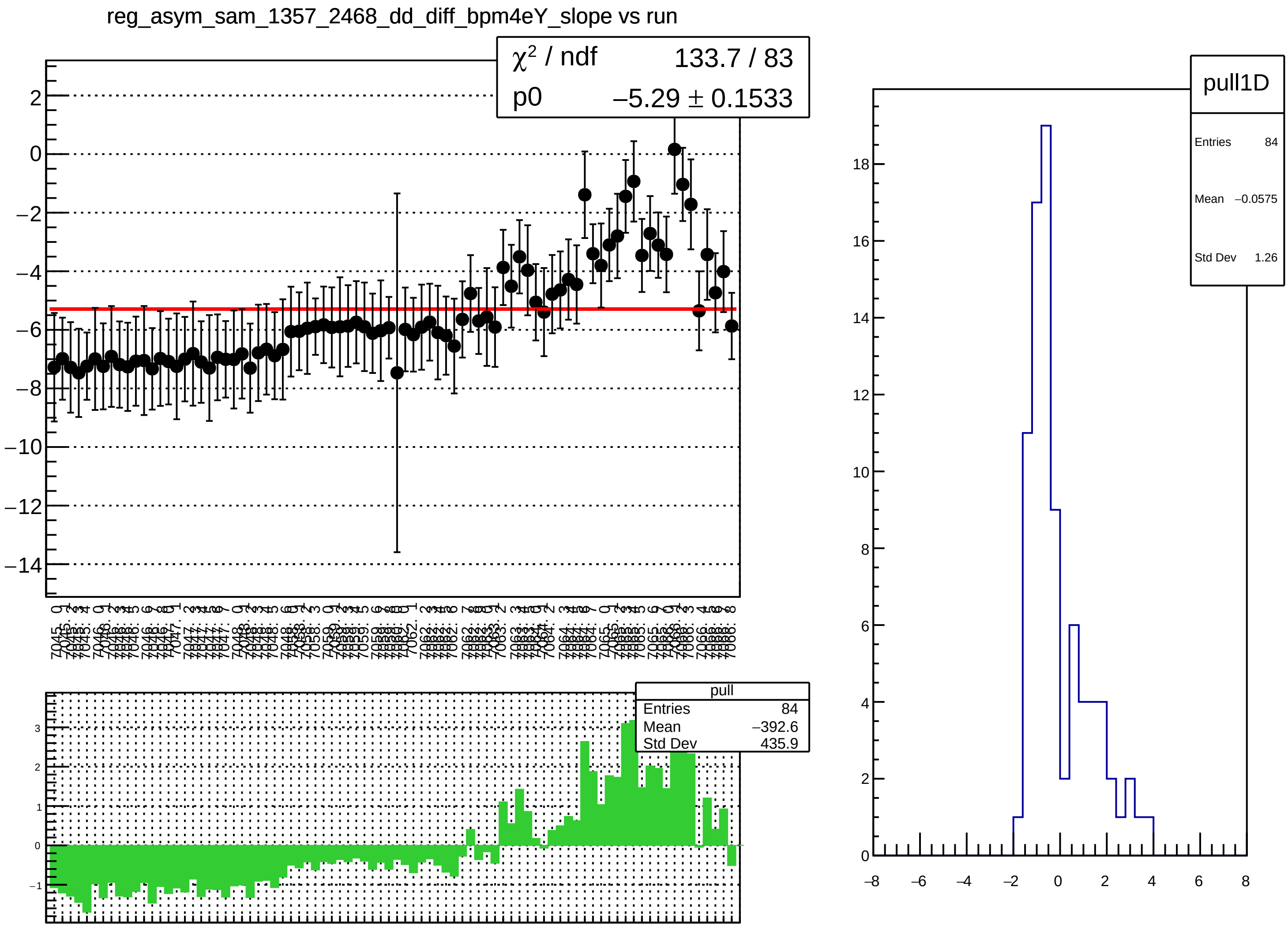
reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 17.04 / 83
p0 0.1657 ± 0.02808
pull
Entries 84
Mean −9226
Std Dev 9274
pull1D
Entries 84
Mean 0.00085
Std Dev 0.4504


reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ2 / ndf 294 / 83
p0 6.884 ± 0.2039
20
15
10
5
0
pull
Entries 84
Mean −115.1
Std Dev 160.9
6
4
2
0
−2
pull1D
Entries 84
Mean −0.1822
Std Dev 1.862
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

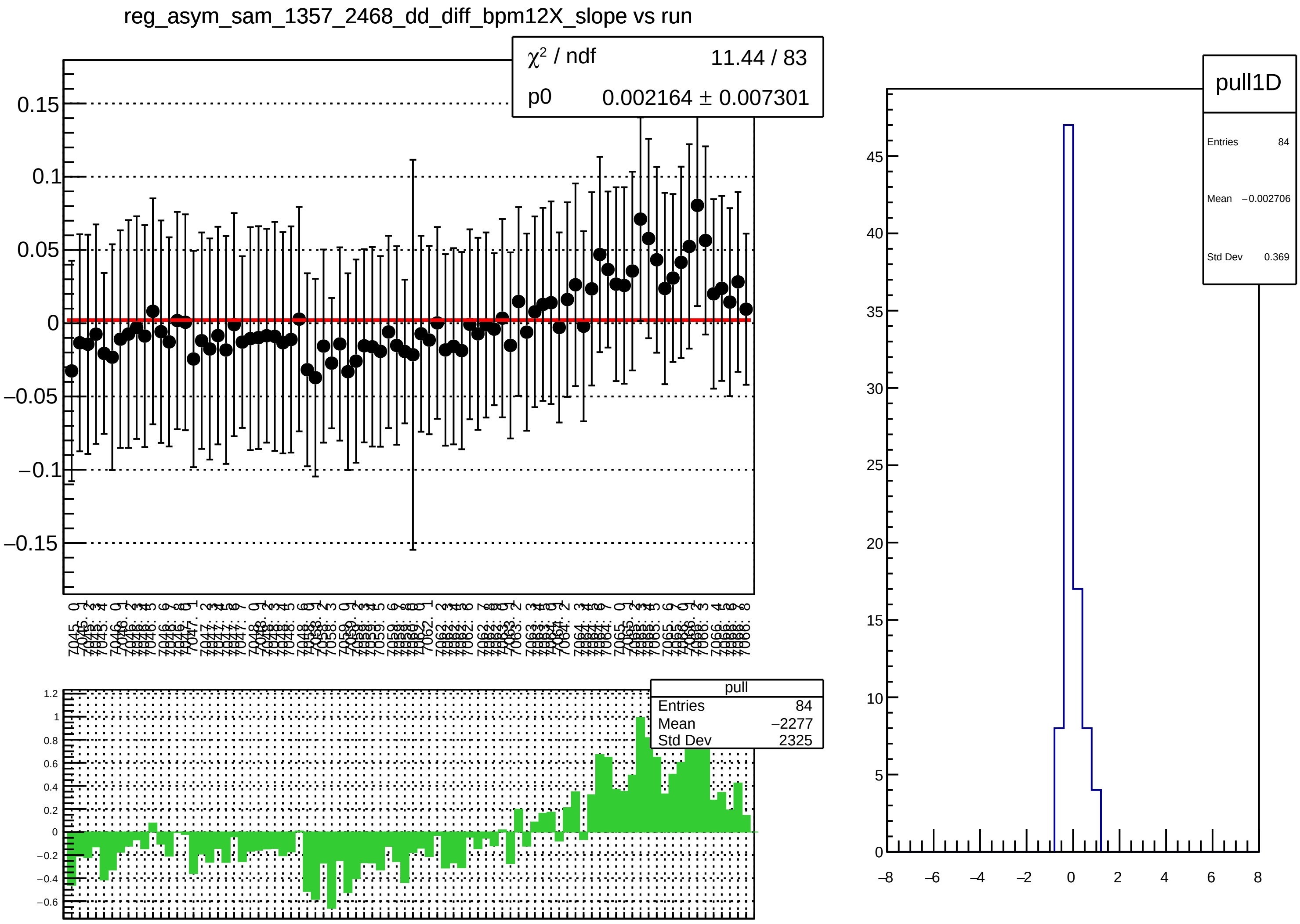

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 140.3 / 83
p0 0.5244 ± 0.1434
pull
Entries 84
Mean −398.7
Std Dev 442.6
pull1D
Entries 84
Mean 0.05746
Std Dev 1.291



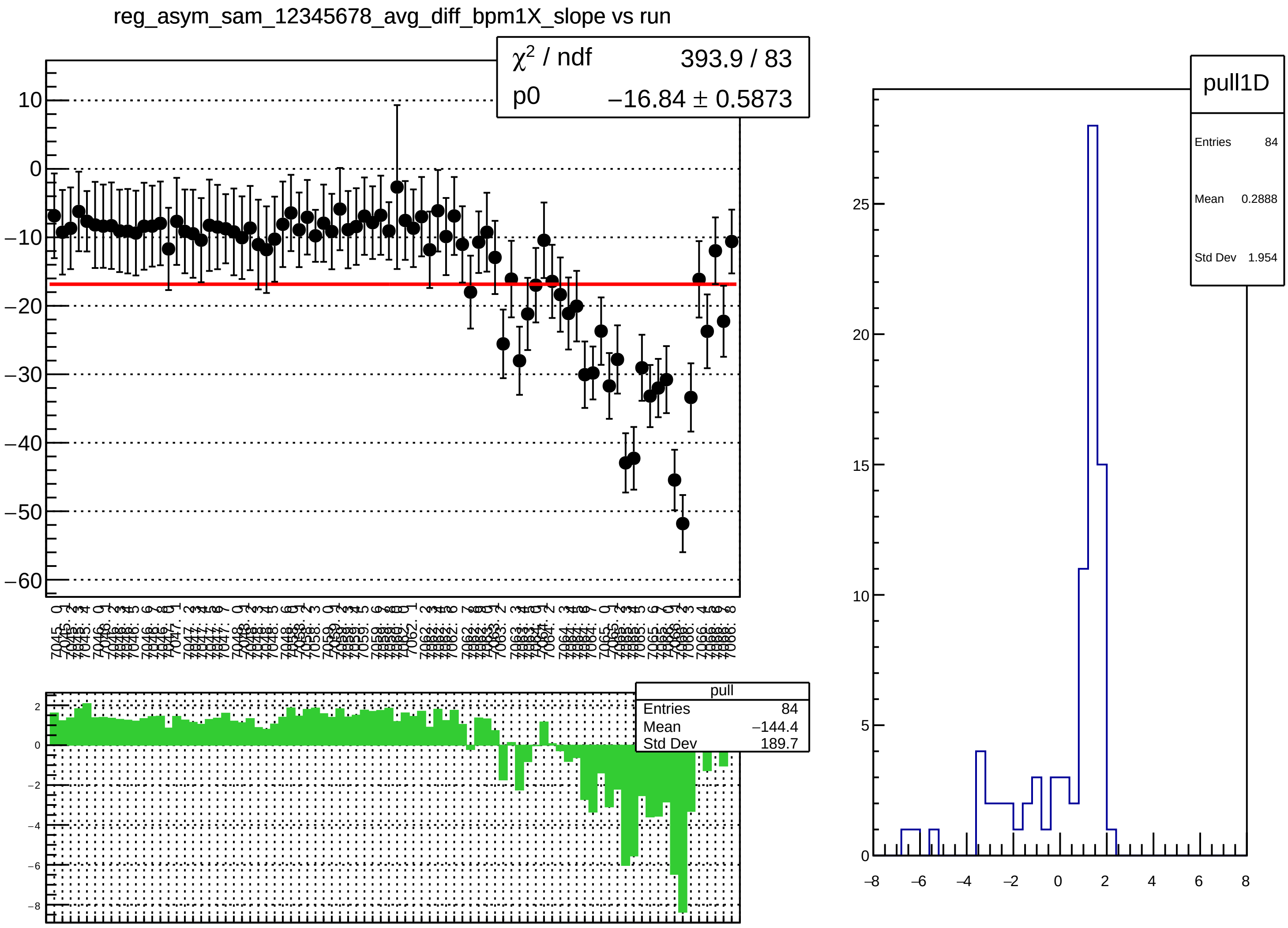
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 260.6 / 83
p0 16.79 ± 0.1952
pull
Entries 84
Mean −124.4
Std Dev 169.9
pull1D
Entries 84
Mean 0.1705
Std Dev 1.753



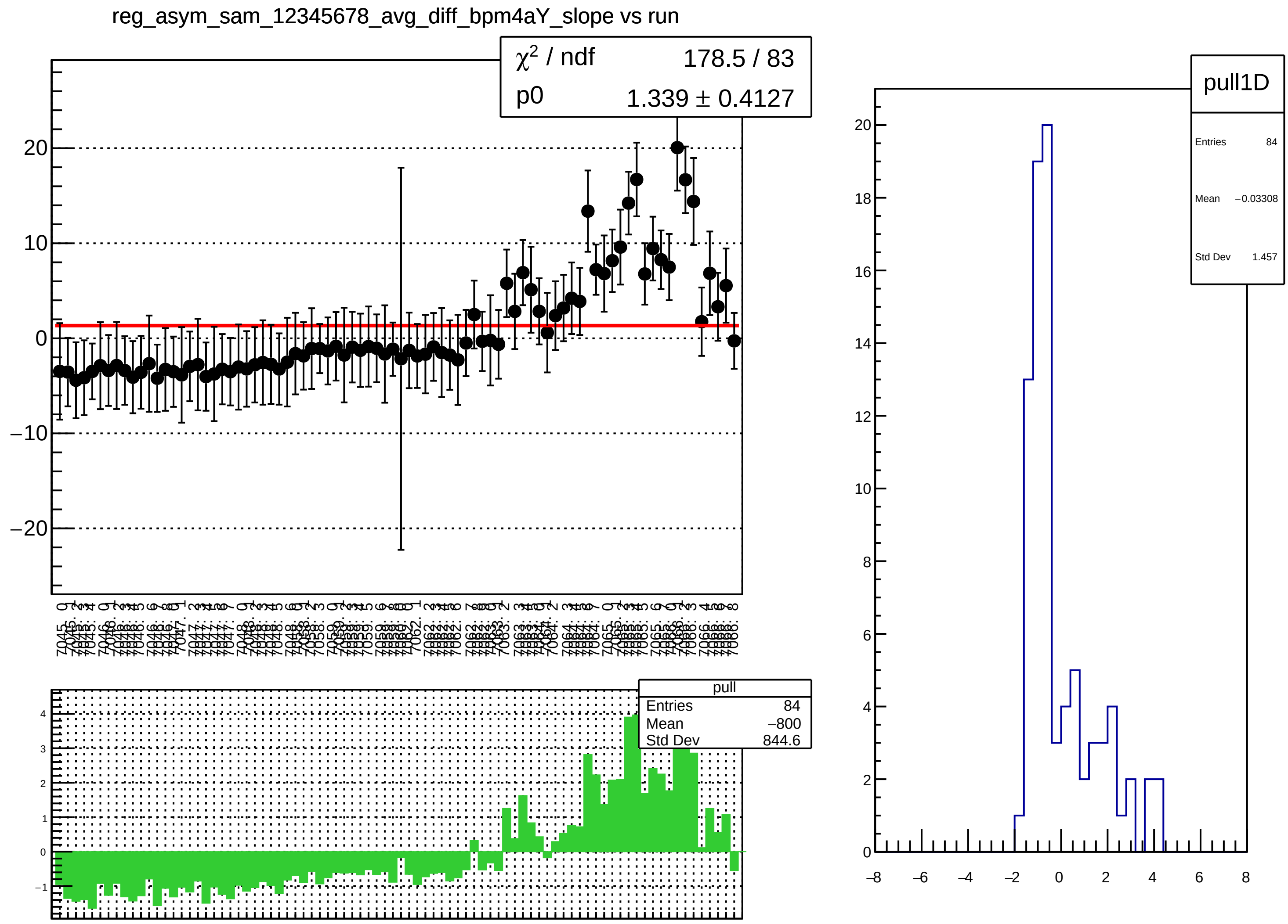
reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 133.7 / 83
p0 −5.29 ± 0.1533
pull
Entries 84
Mean −392.6
Std Dev 435.9
pull1D
Entries 84
Mean −0.0575
Std Dev 1.26

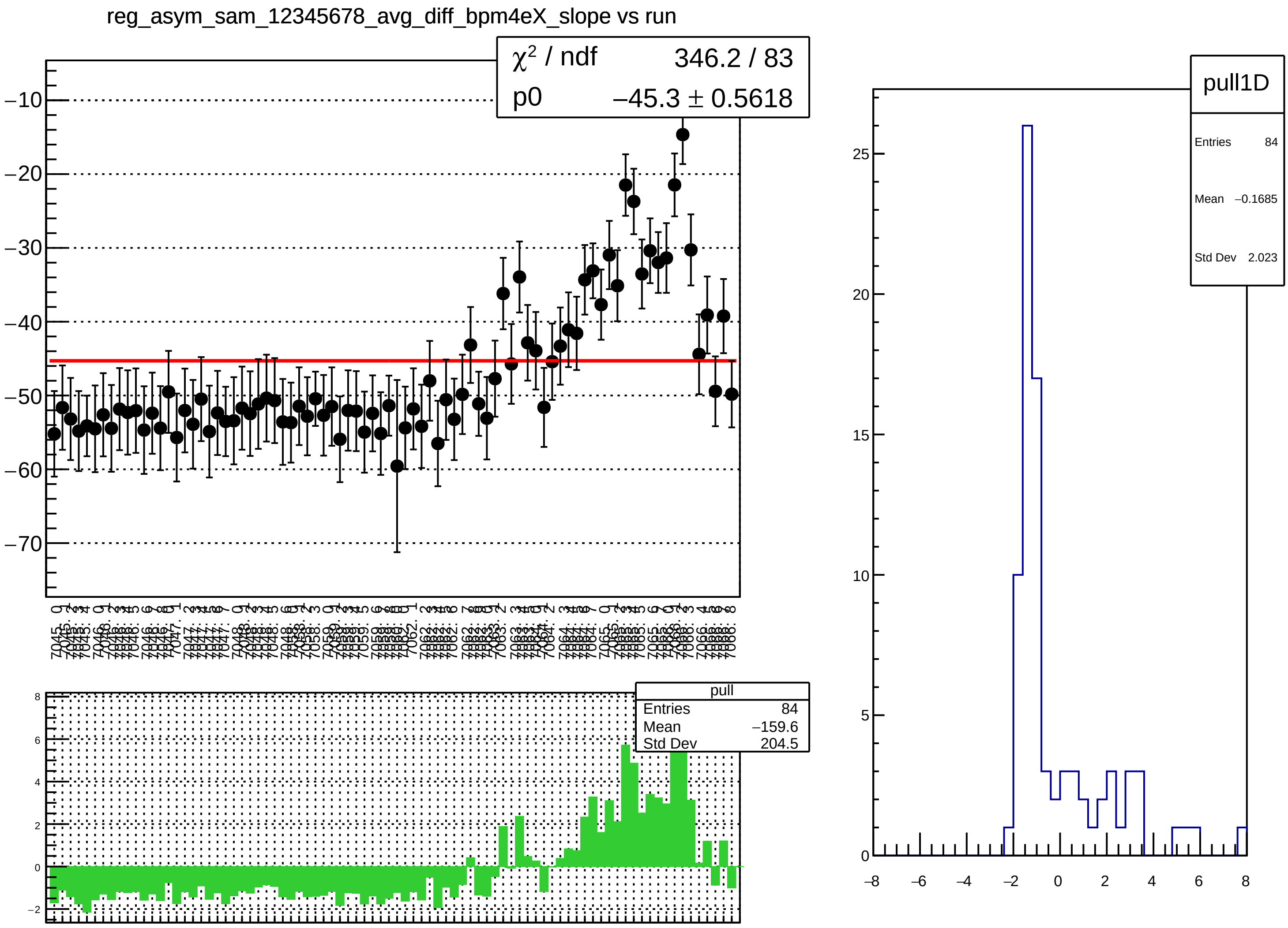


reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ2 / ndf 11.44 / 83
p0 0.002164 ± 0.007301
pull
Entries 84
Mean −2277
Std Dev 2325
pull1D
Entries 84
Mean −0.002706
Std Dev 0.369

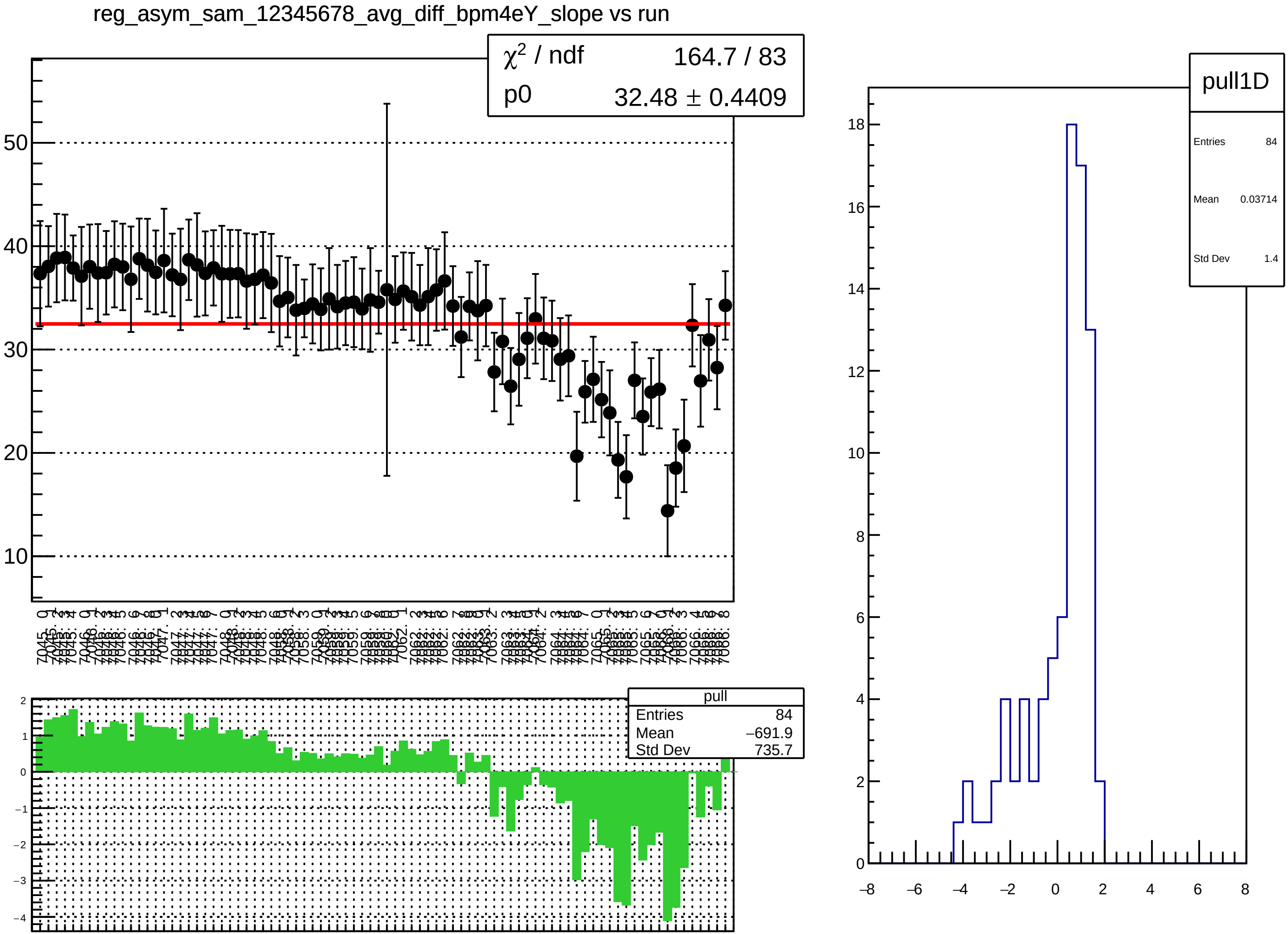


reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ2 / ndf 393.9 / 83
p0 −16.84 ± 0.5873
pull
Entries 84
Mean −144.4
Std Dev 189.7
pull1D
Entries 84
Mean 0.2888
Std Dev 1.954

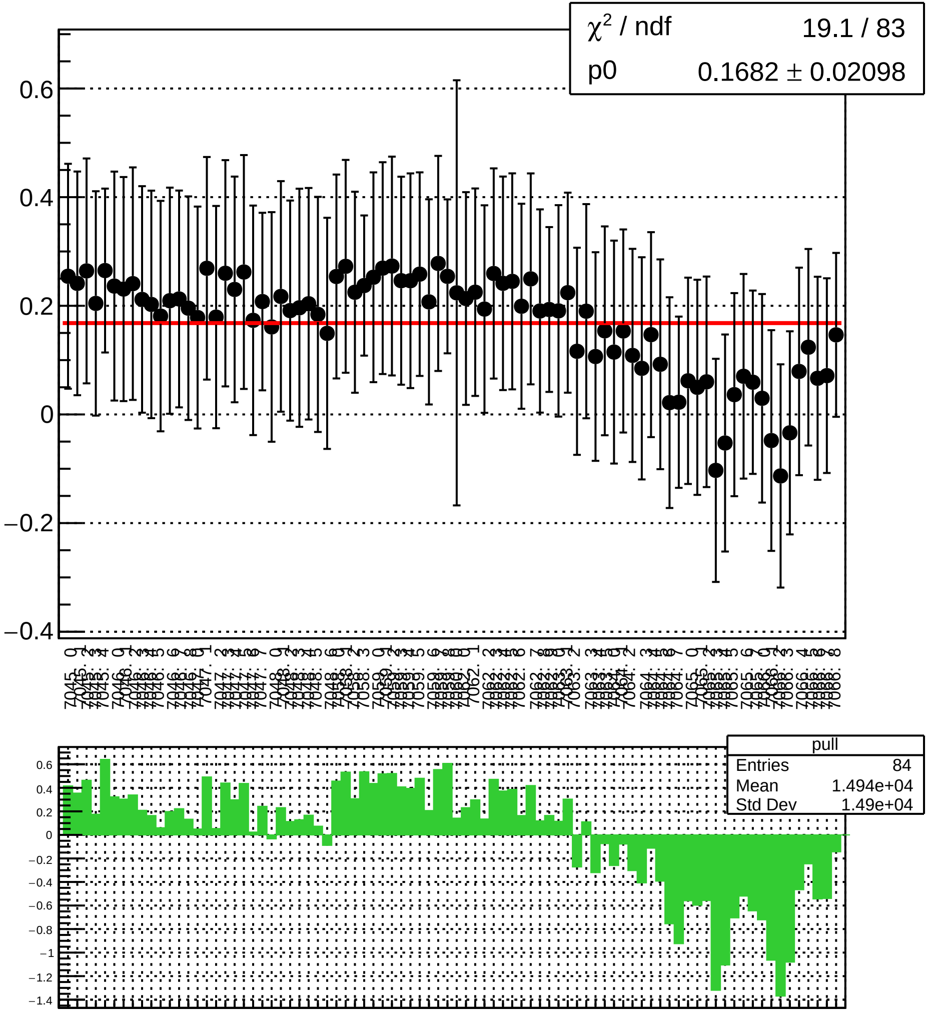

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 178.5 / 83
p0 1.339 ± 0.4127
20
10
0
−10
−20
pull
Entries 84
Mean −800
Std Dev 844.6
4
3
2
1
0
−1
pull1D
Entries 84
Mean −0.03308
Std Dev 1.457
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

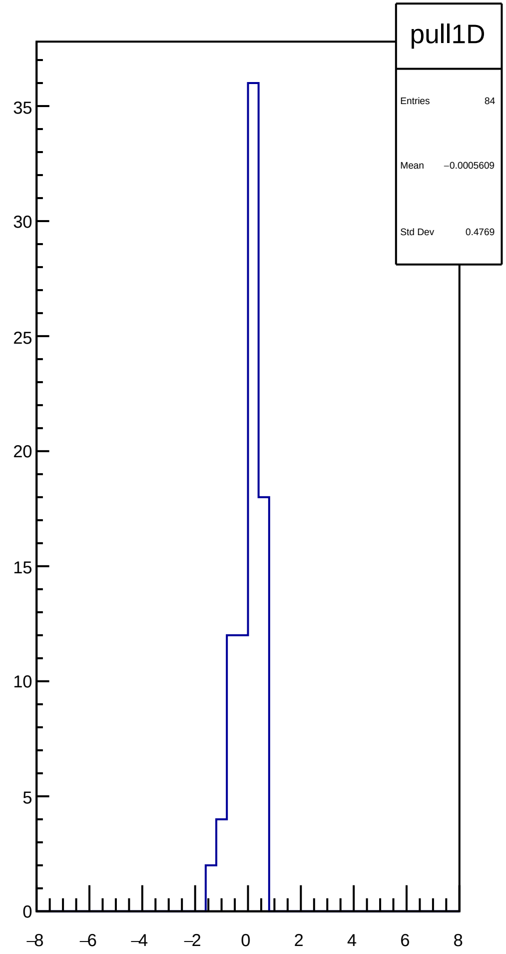


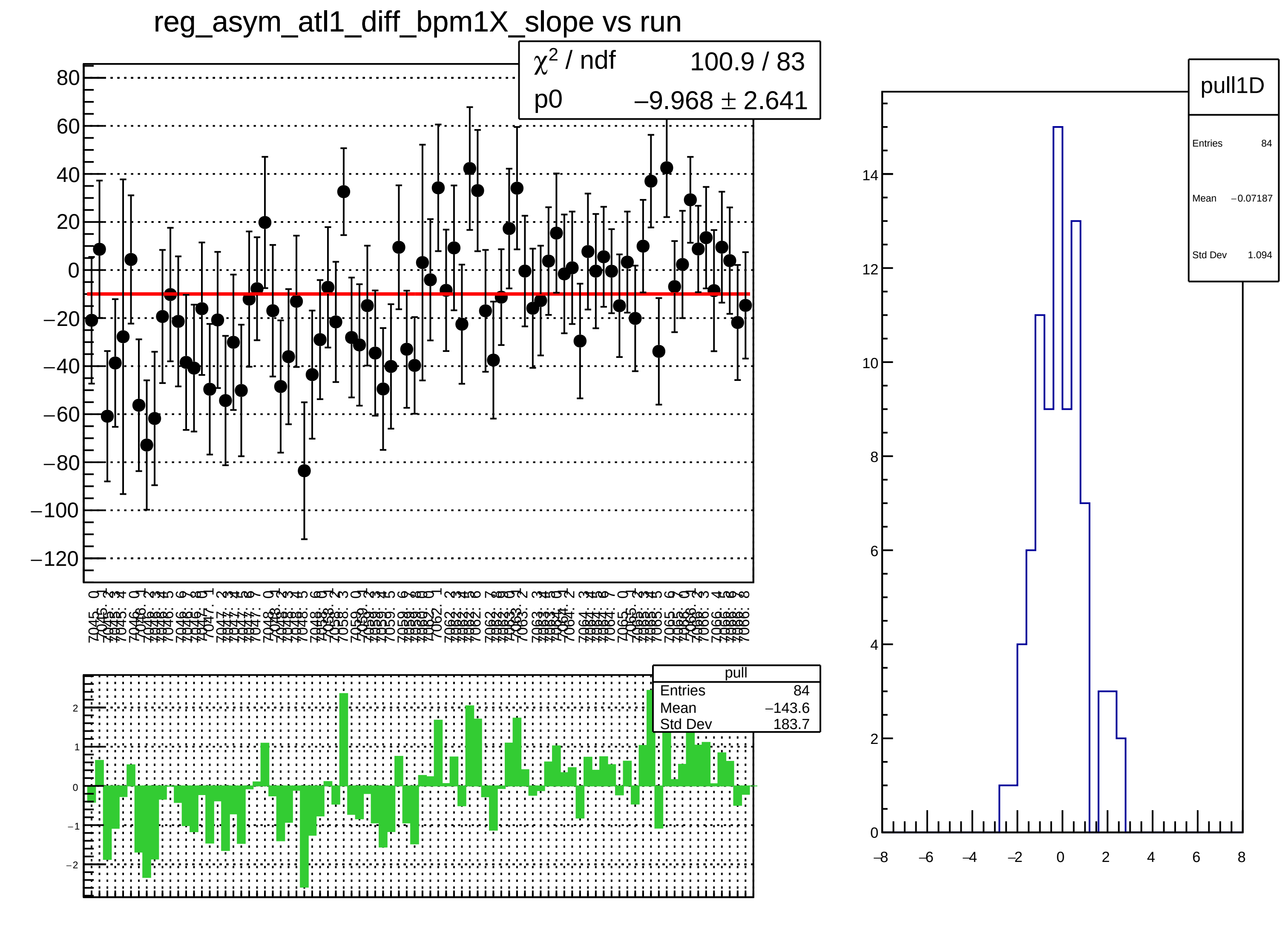
reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 346.2 / 83
p0 −45.3 ± 0.5618
pull
Entries 84
Mean −159.6
Std Dev 204.5
pull1D
Entries 84
Mean −0.1685
Std Dev 2.023


reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 164.7 / 83
p0 32.48 ± 0.4409
pull
Entries 84
Mean −691.9
Std Dev 735.7
pull1D
Entries 84
Mean 0.03714
Std Dev 1.4

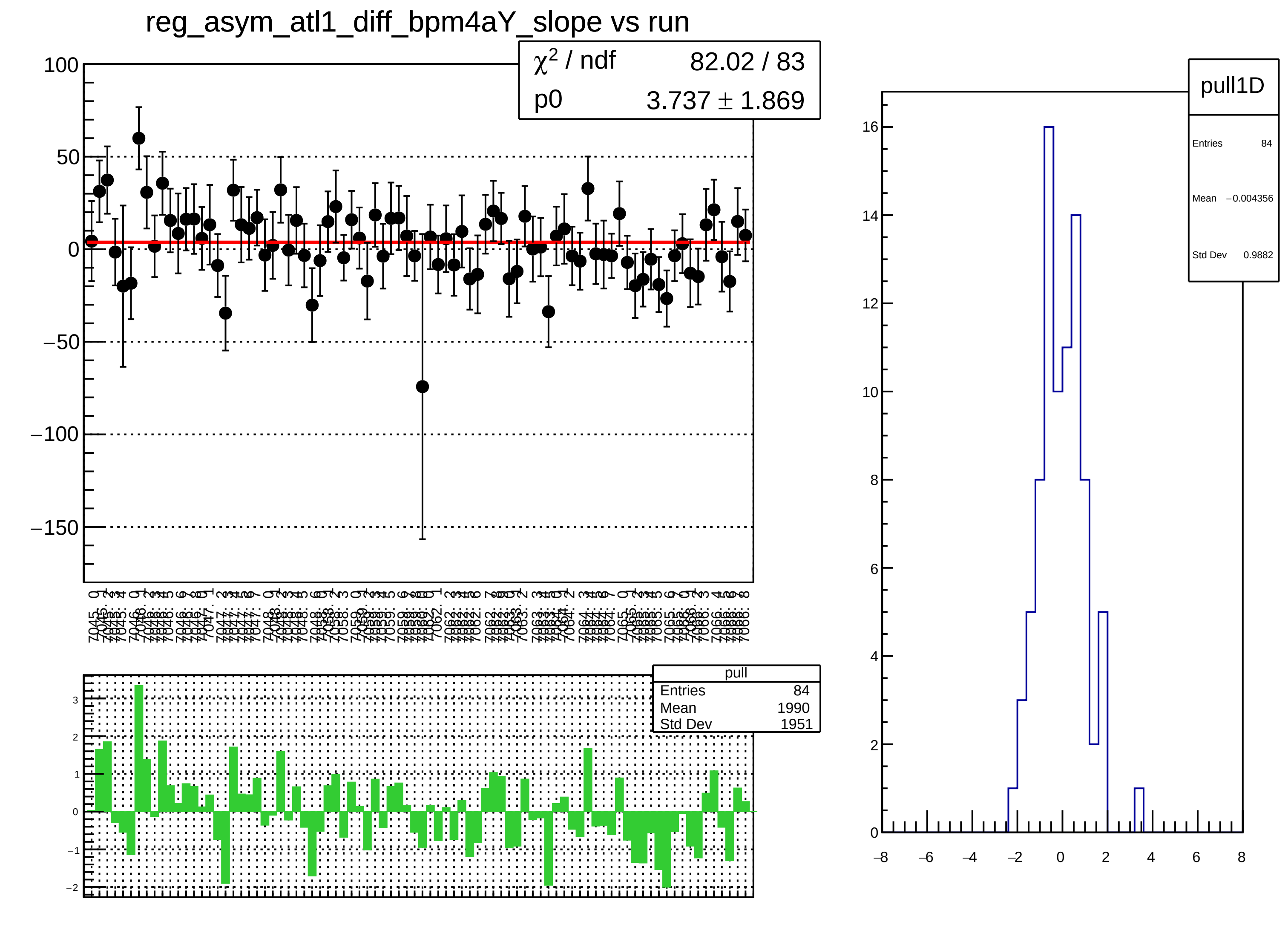
reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run



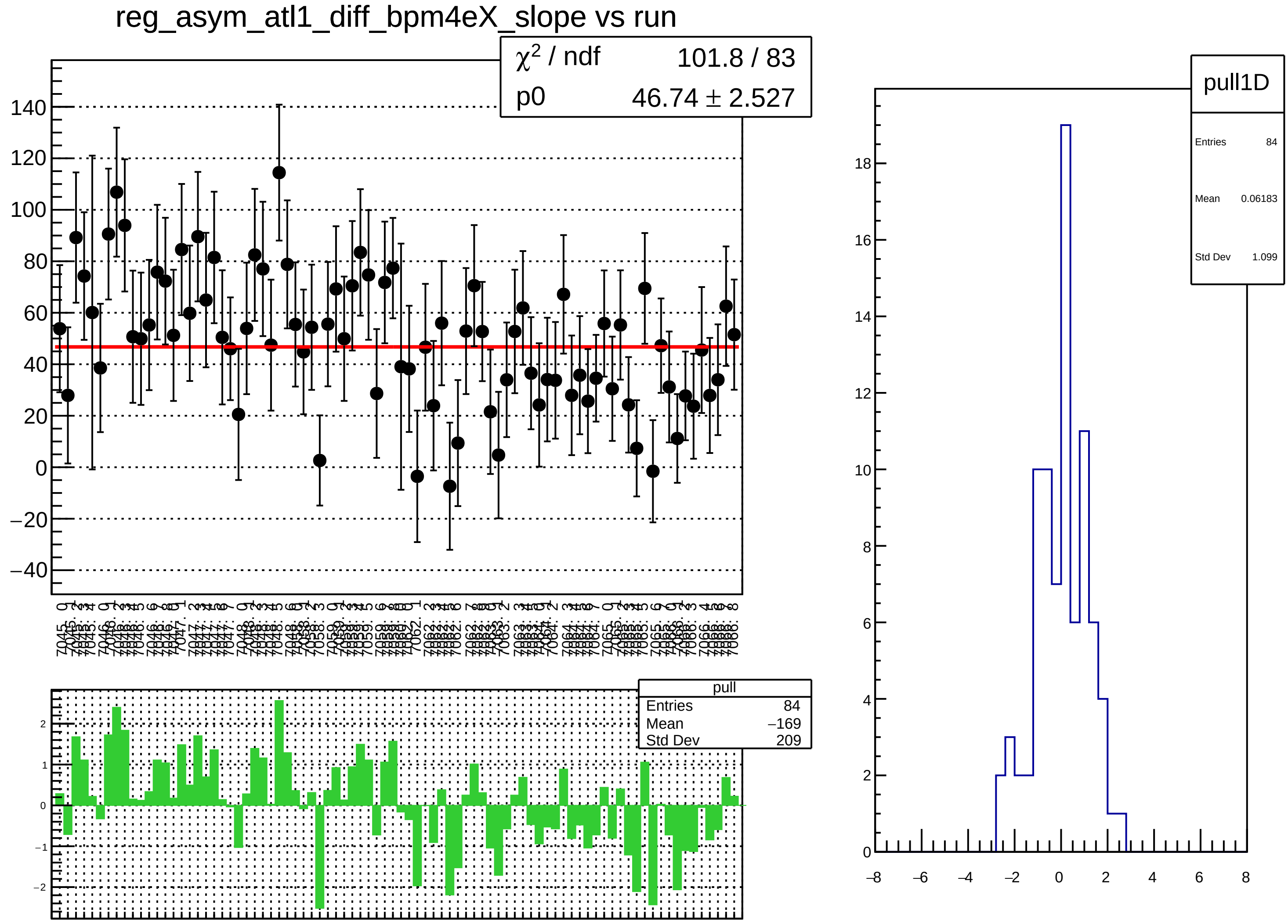





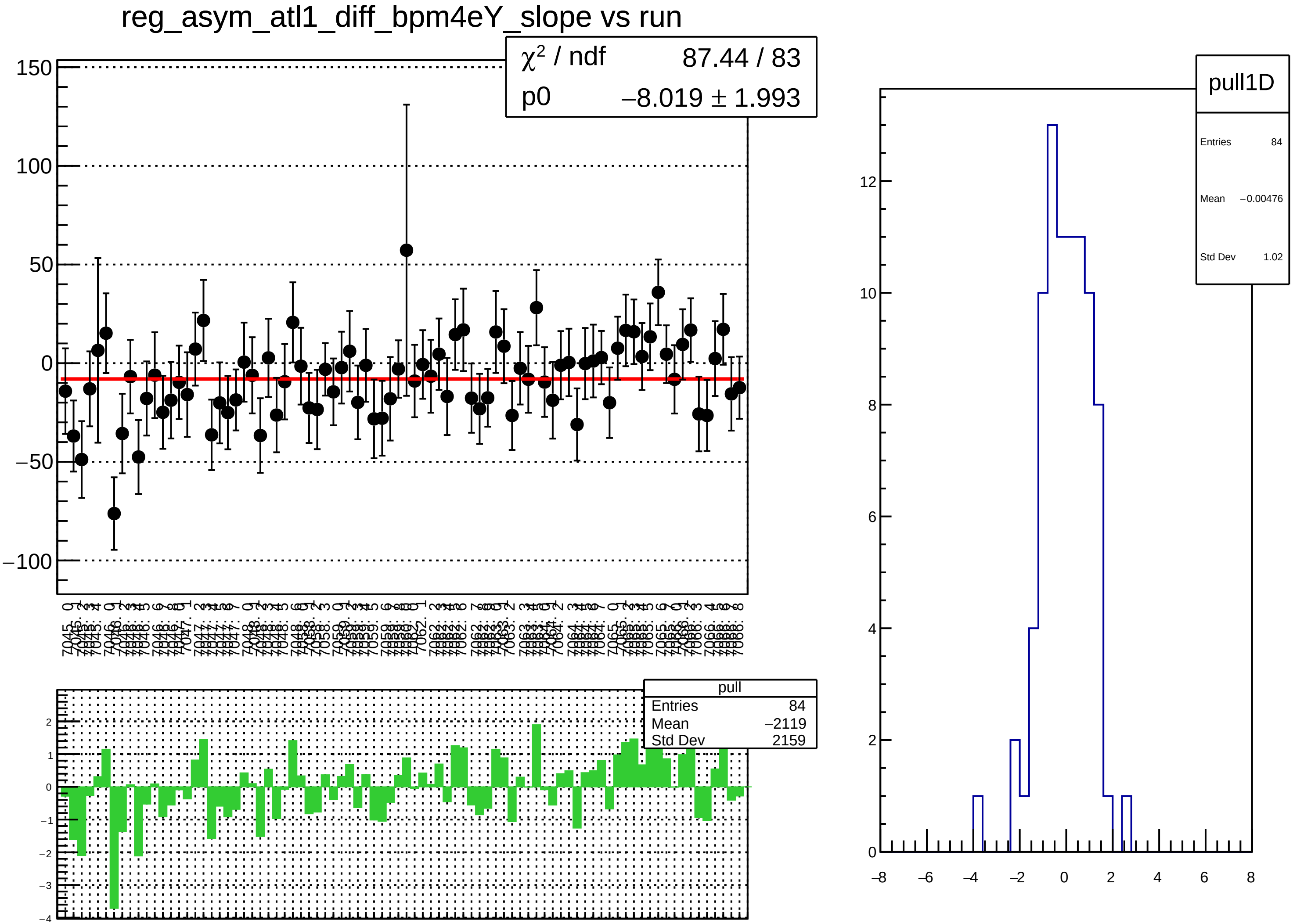
reg_asym_atl1_diff_bpm1X_slope vs run
$\chi^2$ / ndf 100.9 / 83
p0 −9.968 ± 2.641
pull
Entries 84
Mean −143.6
Std Dev 183.7
pull1D
Entries 84
Mean −0.07187
Std Dev 1.094



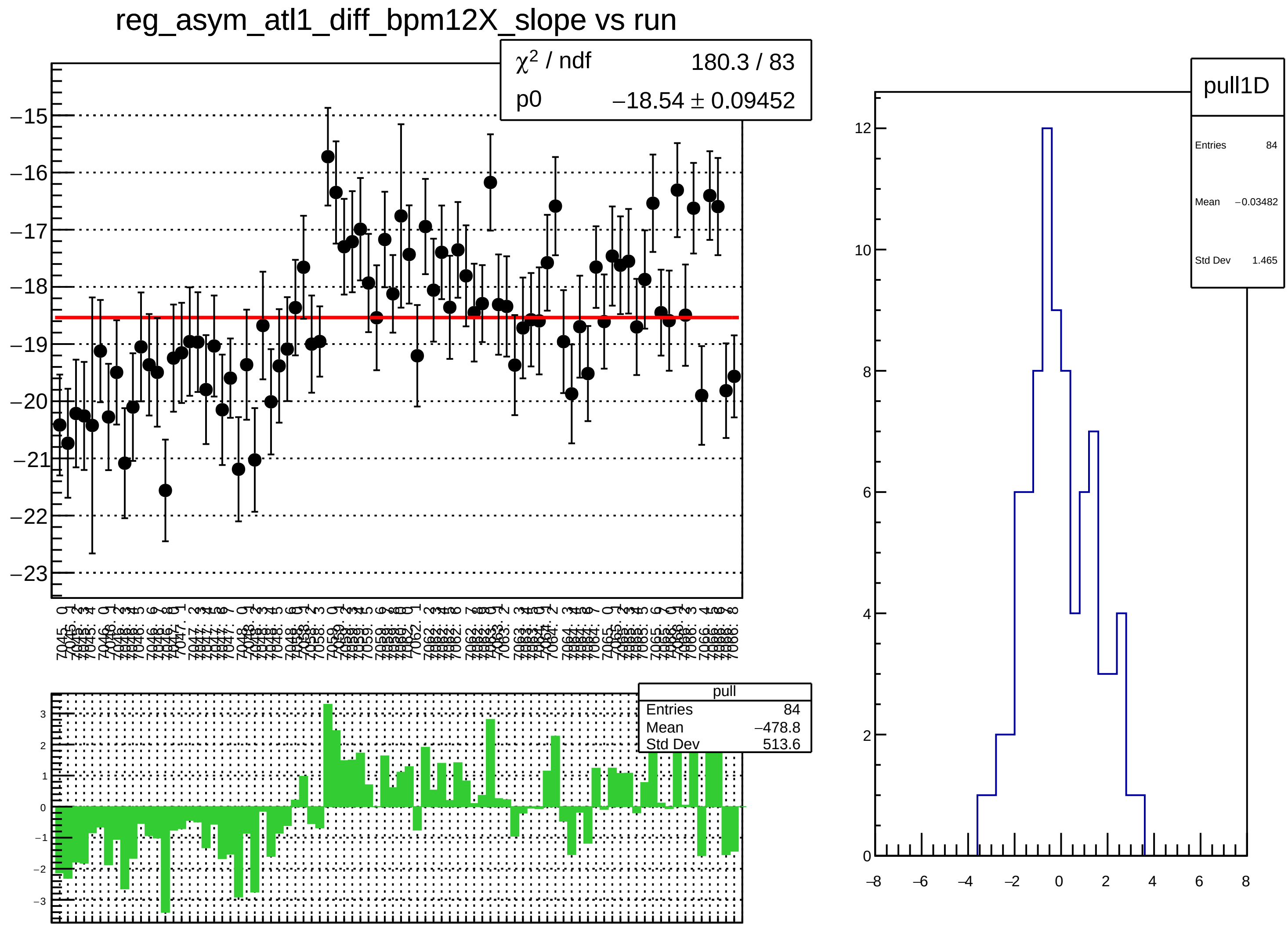
reg_asym_atl1_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 82.02 / 83
p0 3.737 ± 1.869
pull
Entries 84
Mean 1990
Std Dev 1951
pull1D
Entries 84
Mean −0.004356
Std Dev 0.9882



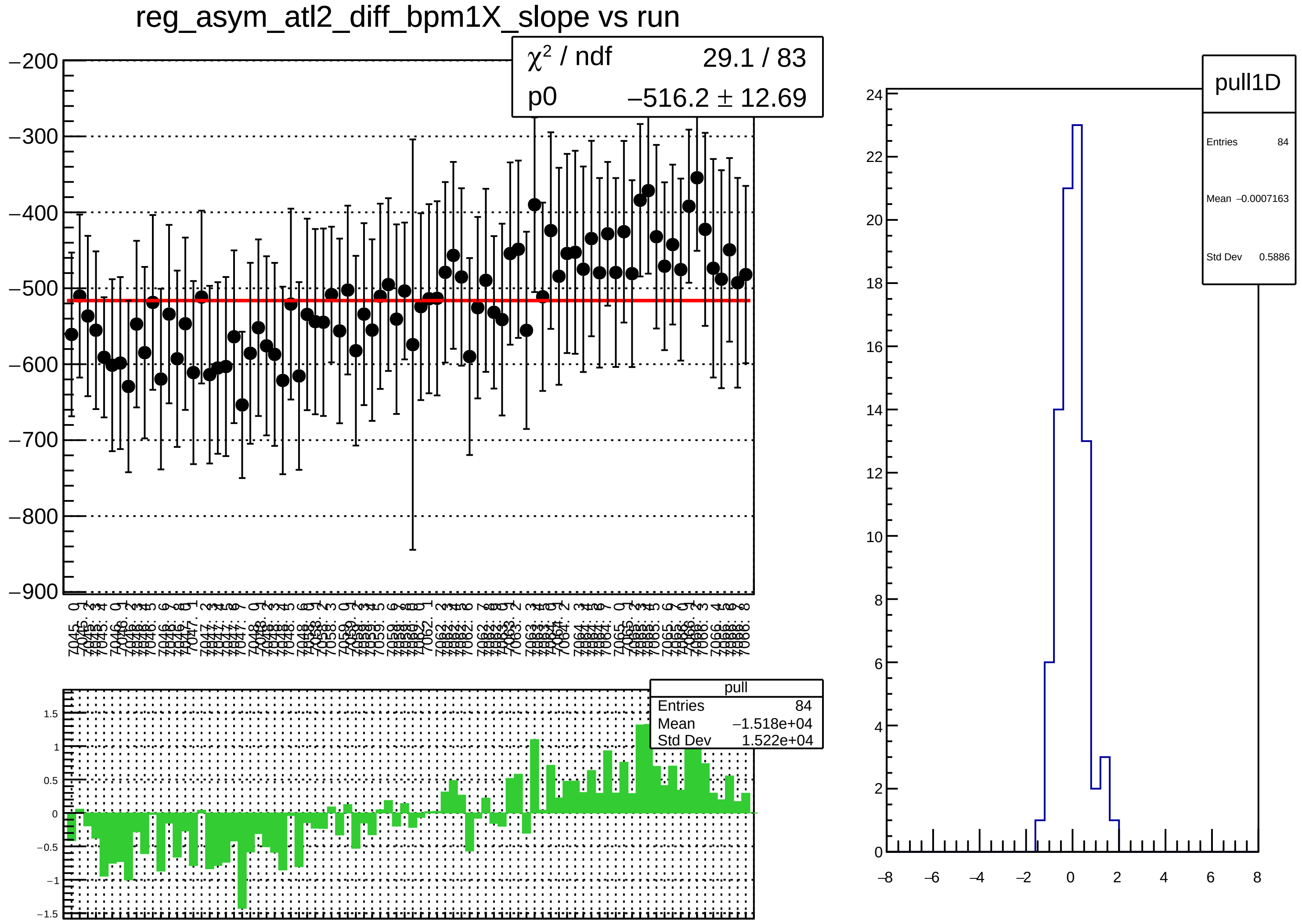
reg_asym_atl1_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 101.8 / 83
p0 46.74 ± 2.527
pull
Entries 84
Mean −169
Std Dev 209
pull1D
Entries 84
Mean 0.06183
Std Dev 1.099



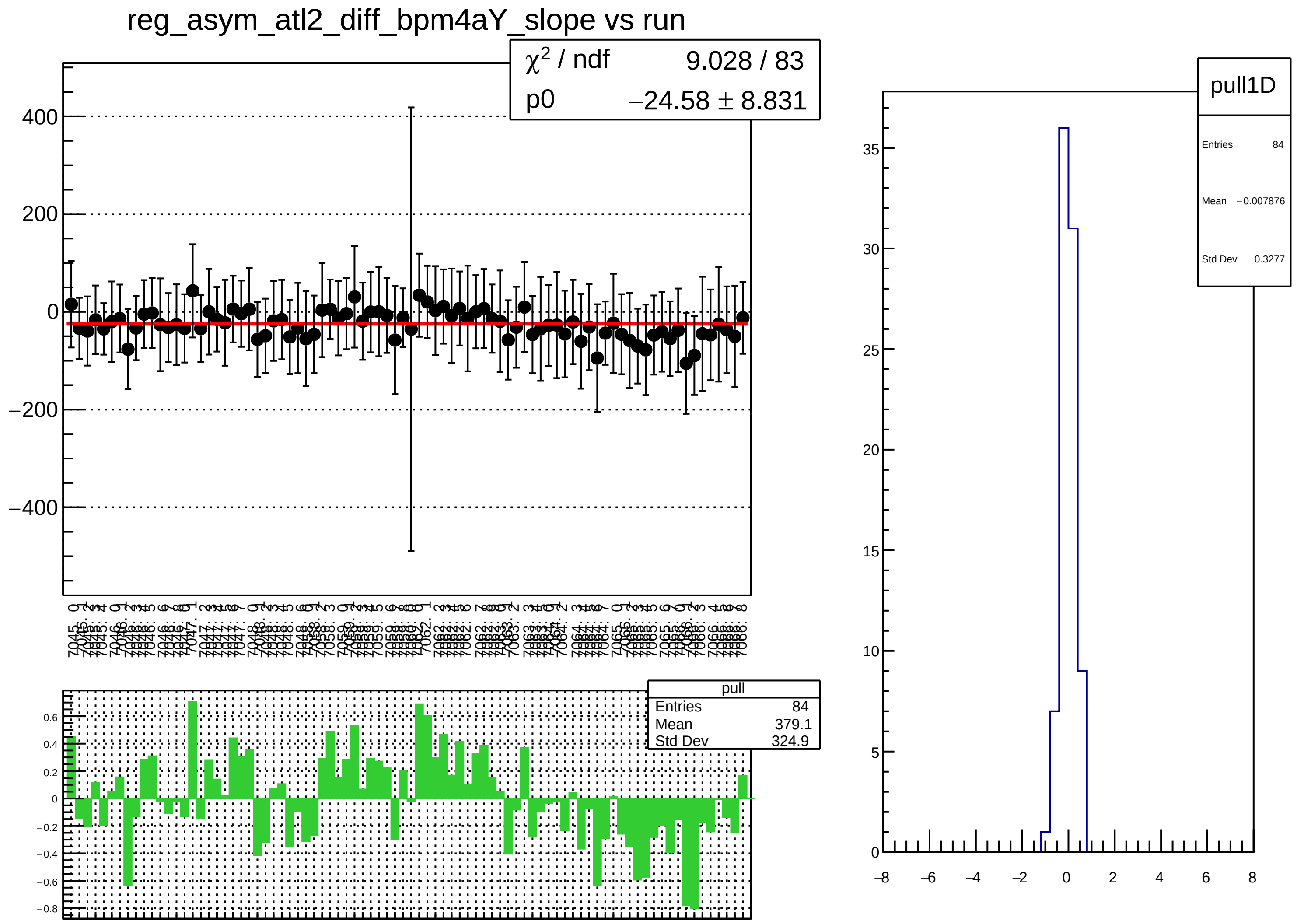
reg_asym_atl1_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 87.44 / 83
p0 −8.019 ± 1.993
pull
Entries 84
Mean −2119
Std Dev 2159
pull1D
Entries 84
Mean −0.00476
Std Dev 1.02



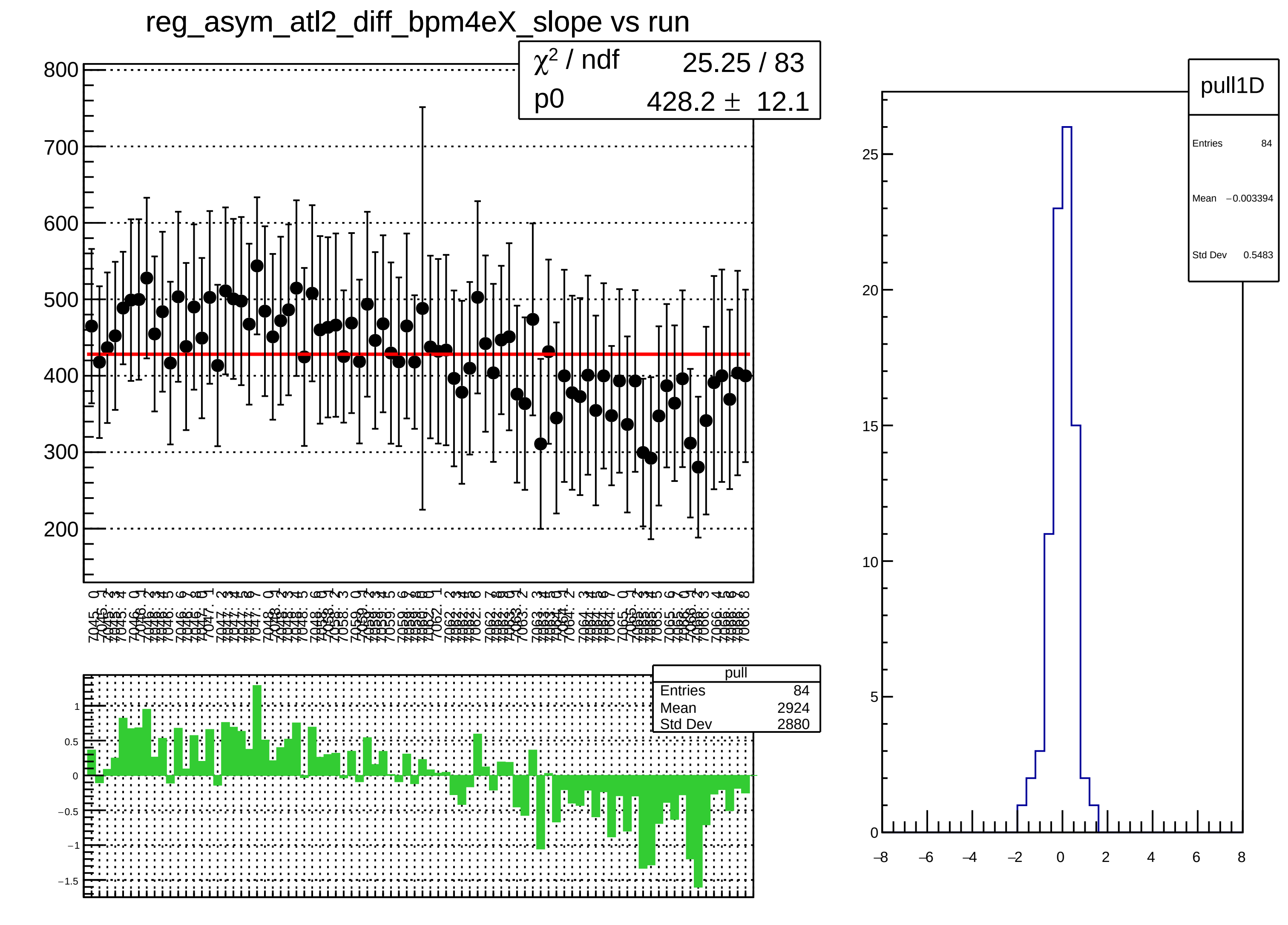
reg_asym_atl1_diff_bpm12X_slope vs run
χ2 / ndf 180.3 / 83
p0 −18.54 ± 0.09452
pull
Entries 84
Mean −478.8
Std Dev 513.6
pull1D
Entries 84
Mean −0.03482
Std Dev 1.465



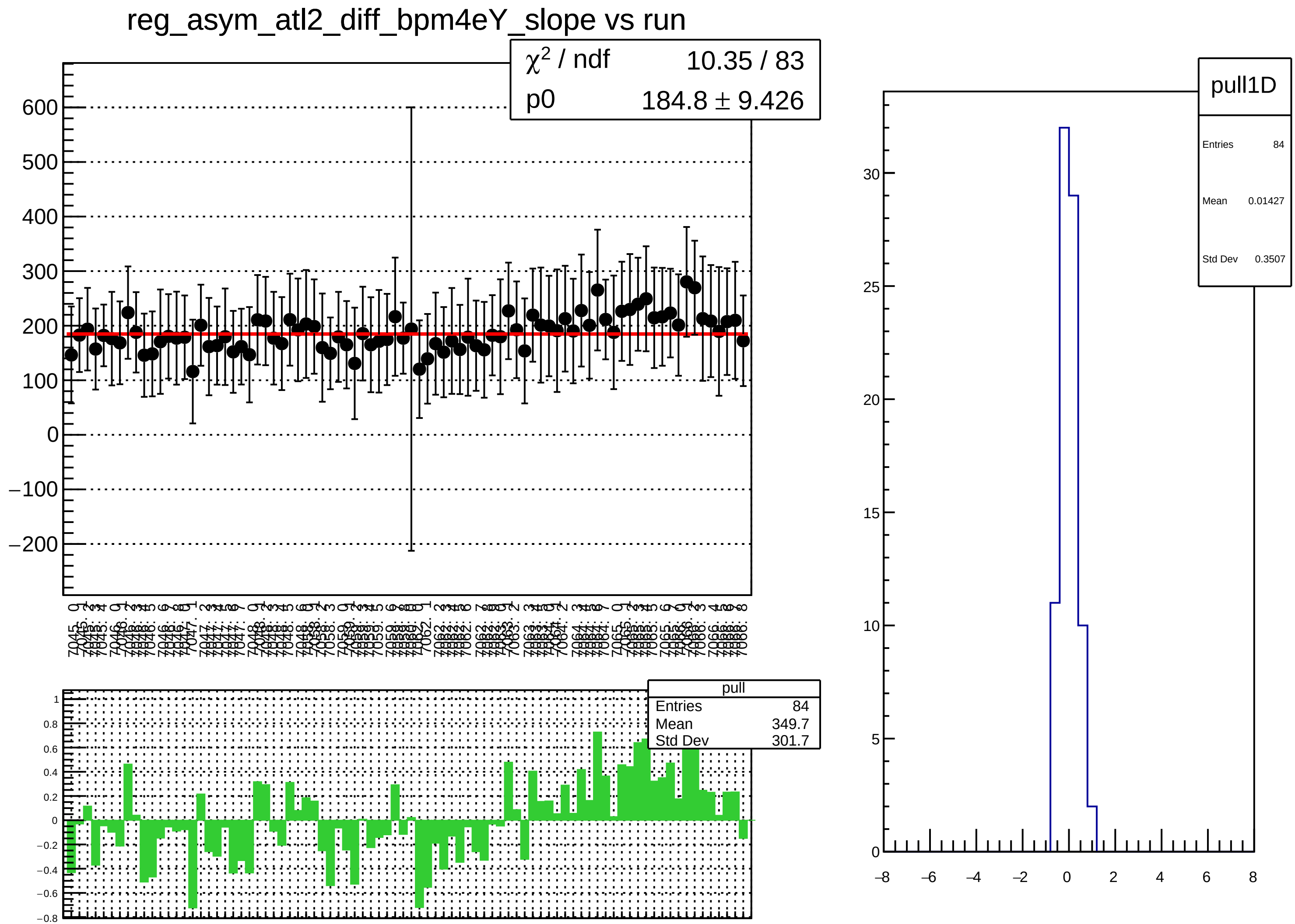
reg_asym_atl2_diff_bpm1X_slope vs run
$\chi^2$ / ndf 29.1 / 83
p0 −516.2 ± 12.69
pull
Entries 84
Mean −1.518e+04
Std Dev 1.522e+04
pull1D
Entries 84
Mean −0.0007163
Std Dev 0.5886



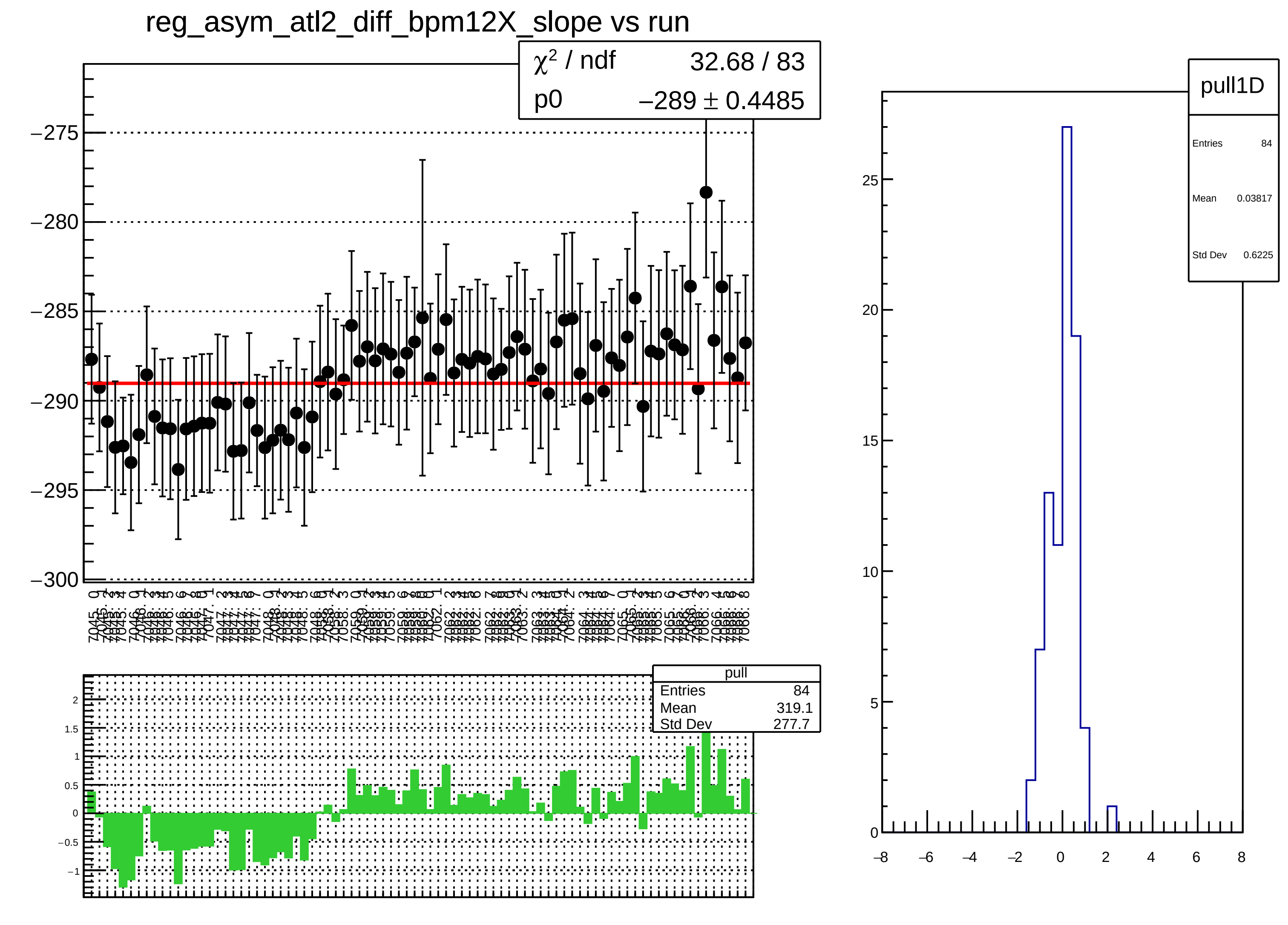
reg_asym_atl2_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 9.028 / 83
p0 −24.58 ± 8.831
pull
Entries 84
Mean 379.1
Std Dev 324.9
pull1D
Entries 84
Mean −0.007876
Std Dev 0.3277



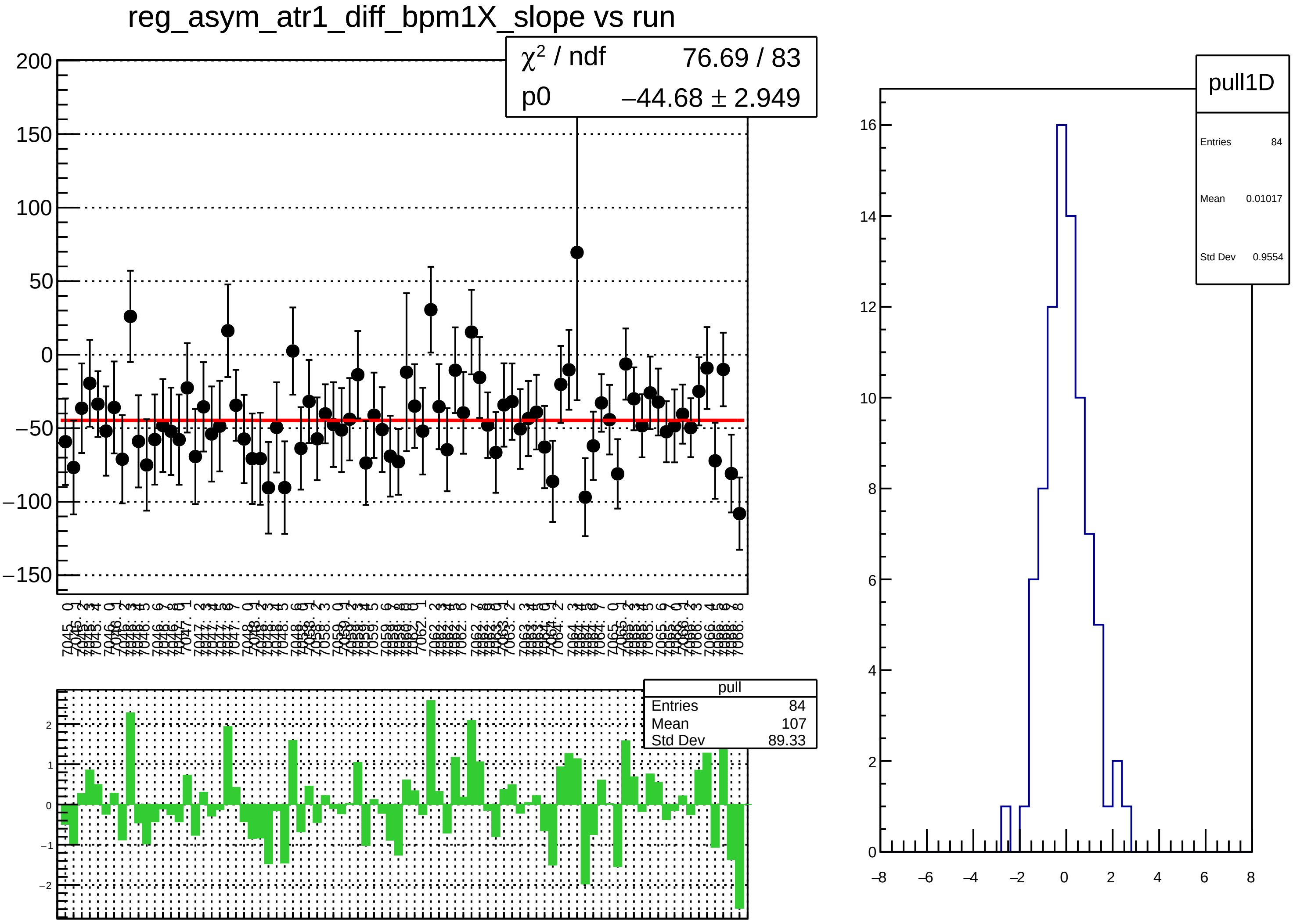
reg_asym_atl2_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 25.25 / 83
p0 428.2 ± 12.1
800
700
600
500
400
300
200
pull
Entries 84
Mean 2924
Std Dev 2880
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean −0.003394
Std Dev 0.5483
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



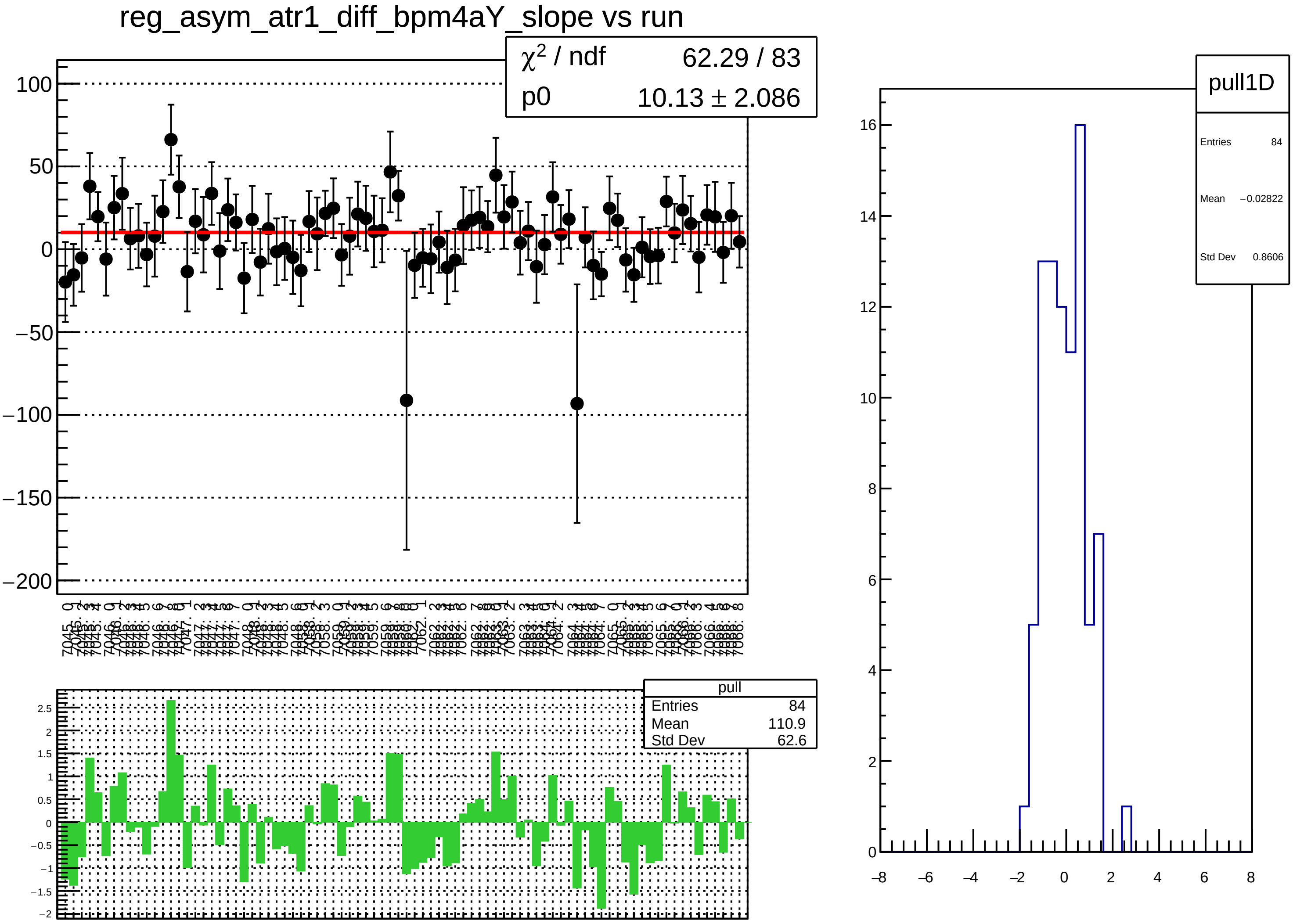
reg_asym_atl2_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 10.35 / 83
p0 184.8 ± 9.426
pull
Entries 84
Mean 349.7
Std Dev 301.7
pull1D
Entries 84
Mean 0.01427
Std Dev 0.3507



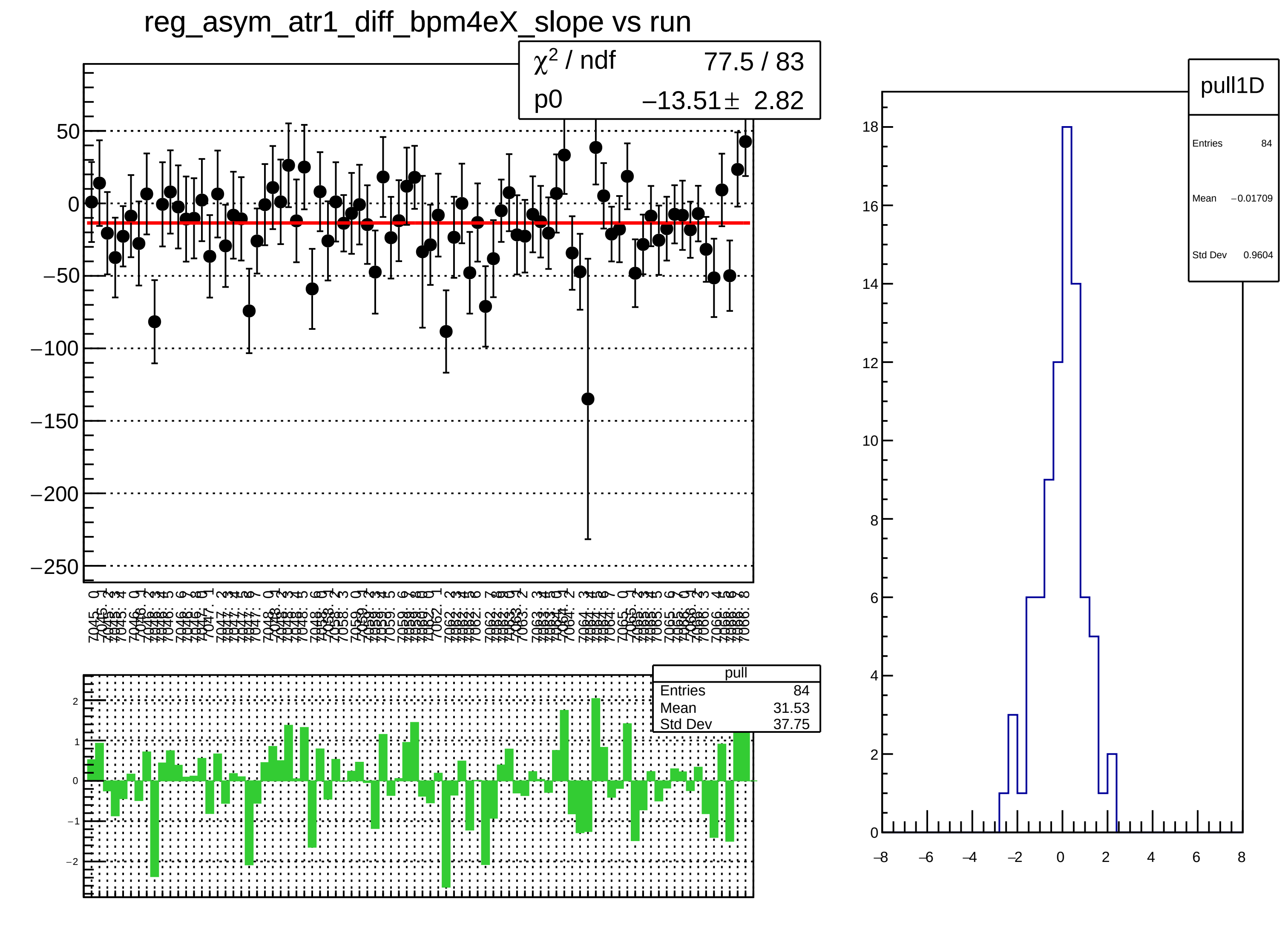
reg_asym_atl2_diff_bpm12X_slope vs run
$\chi^2$ / ndf 32.68 / 83
p0 −289 ± 0.4485
pull
Entries 84
Mean 319.1
Std Dev 277.7
pull1D
Entries 84
Mean 0.03817
Std Dev 0.6225



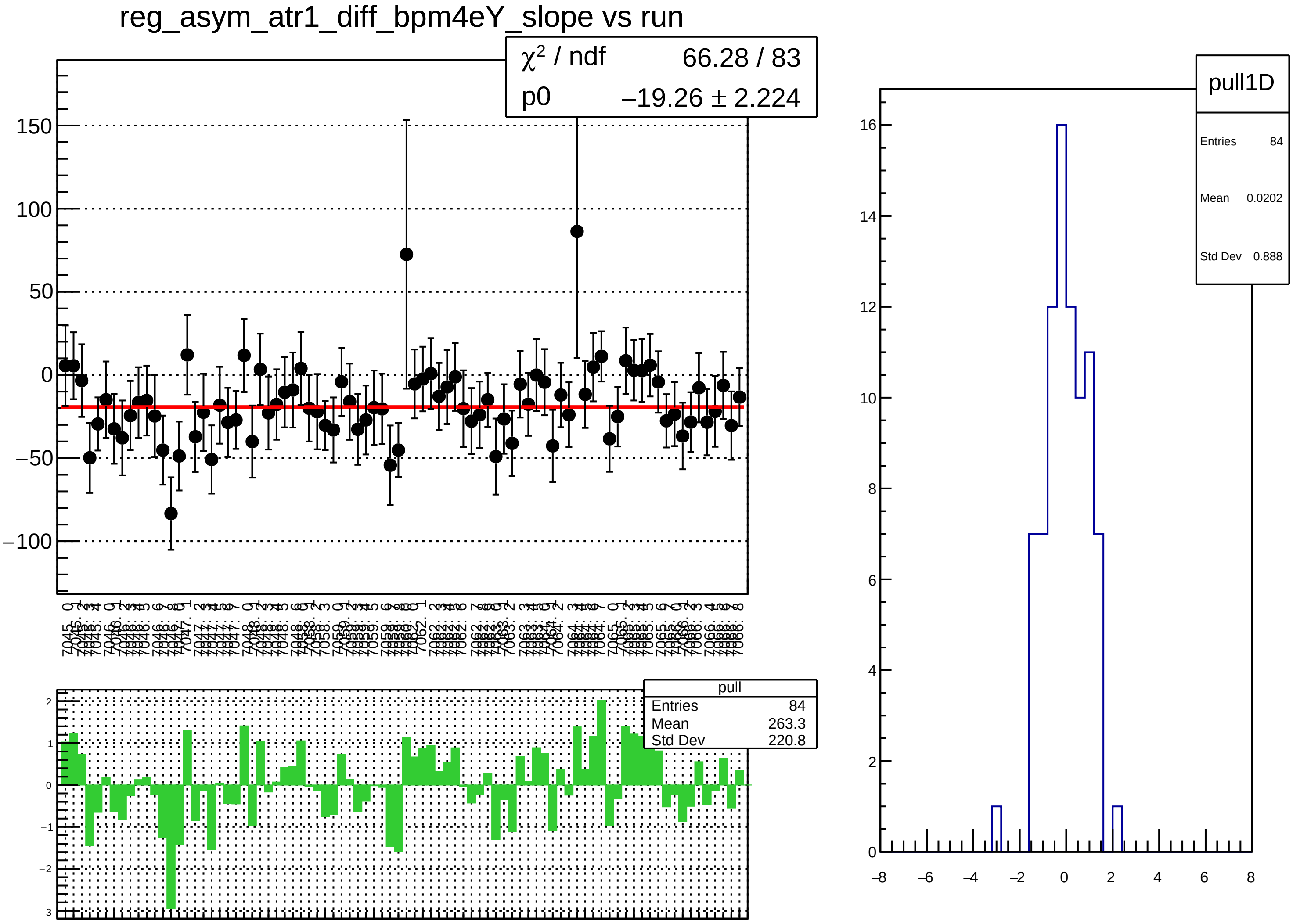
reg_asym_atr1_diff_bpm1X_slope vs run
$\chi^2$ / ndf 76.69 / 83
p0 −44.68 ± 2.949
pull
Entries 84
Mean 107
Std Dev 89.33
pull1D
Entries 84
Mean 0.01017
Std Dev 0.9554



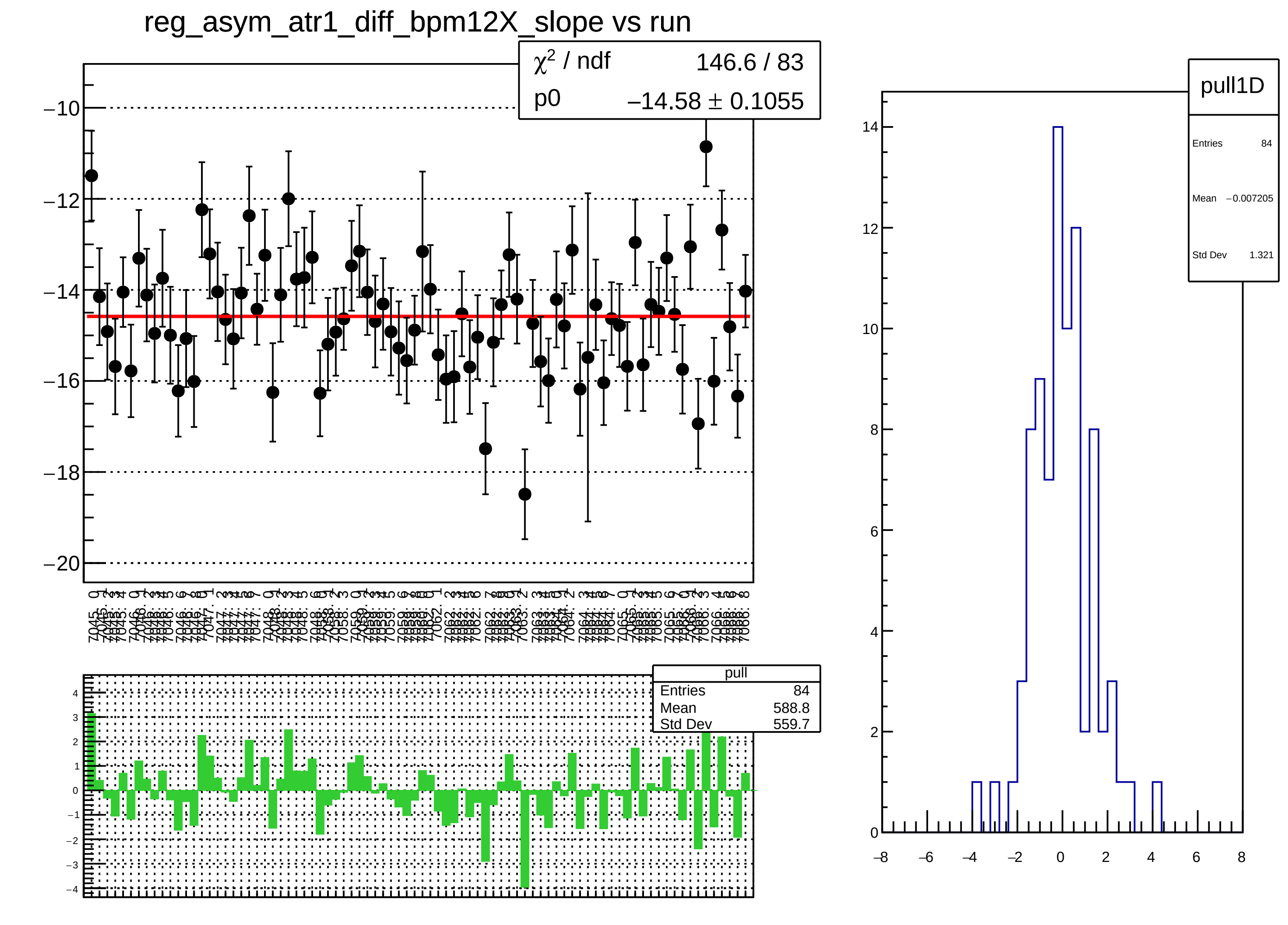
reg_asym_atr1_diff_bpm4aY_slope vs run
χ2 / ndf 62.29 / 83
p0 10.13 ± 2.086
pull
Entries 84
Mean 110.9
Std Dev 62.6
pull1D
Entries 84
Mean −0.02822
Std Dev 0.8606



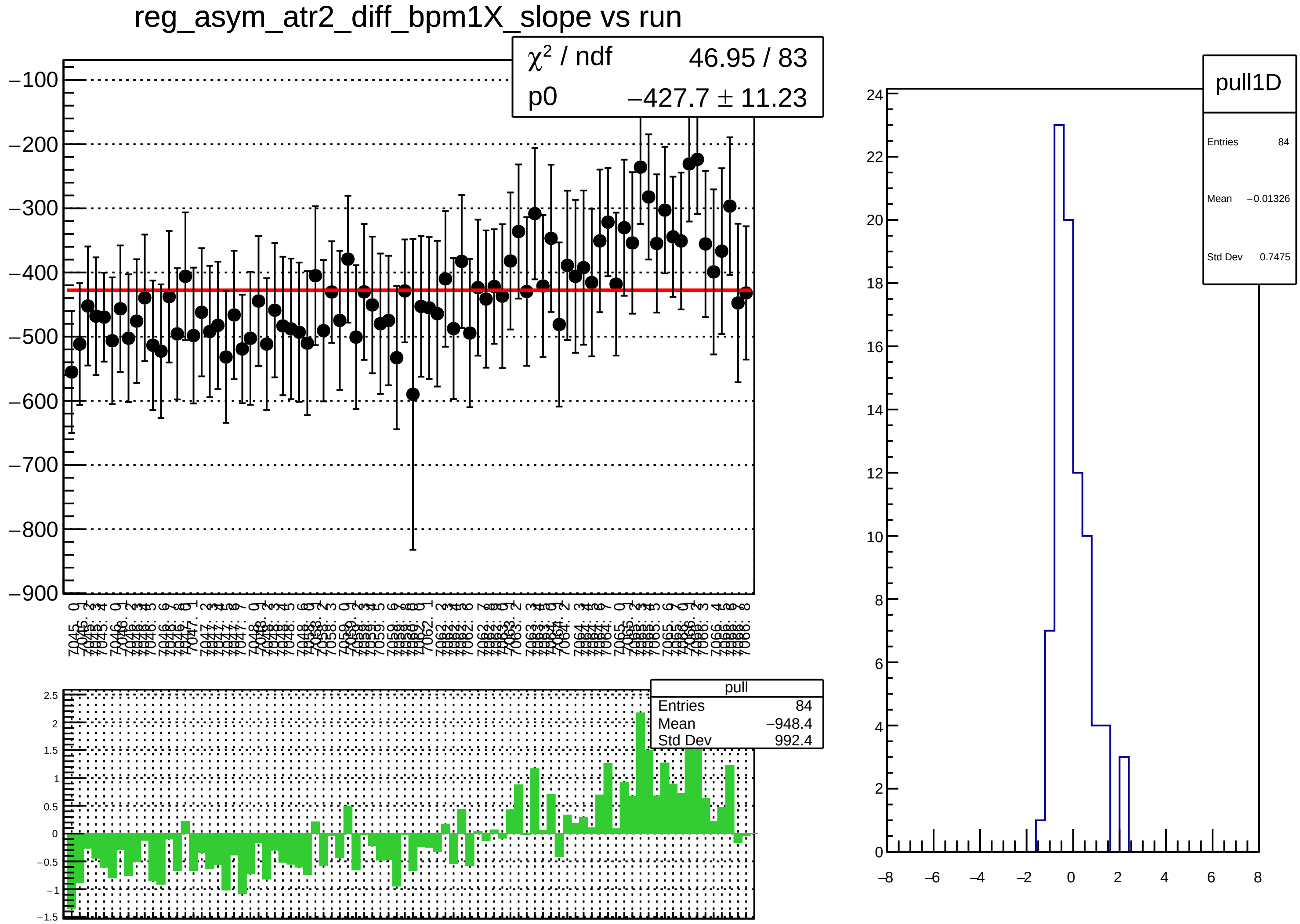
reg_asym_atr1_diff_bpm4eX_slope vs run
χ2 / ndf 77.5 / 83
p0 −13.51 ± 2.82
50
0
−50
−100
−150
−200
−250
pull
Entries 84
Mean 31.53
Std Dev 37.75
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01709
Std Dev 0.9604
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

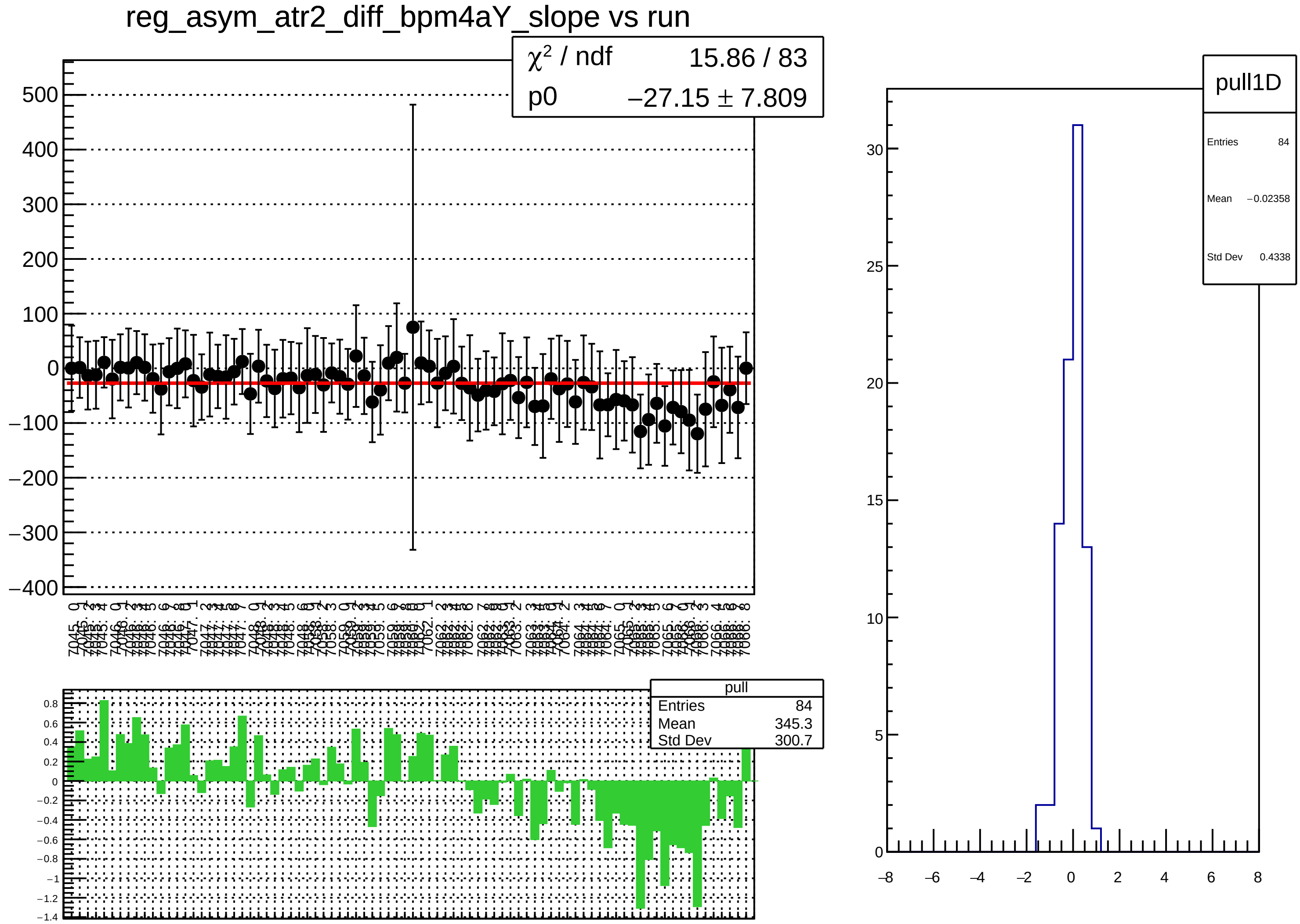


reg_asym_atr1_diff_bpm4eY_slope vs run
χ2 / ndf 66.28 / 83
p0 −19.26 ± 2.224
pull
Entries 84
Mean 263.3
Std Dev 220.8
pull1D
Entries 84
Mean 0.0202
Std Dev 0.888

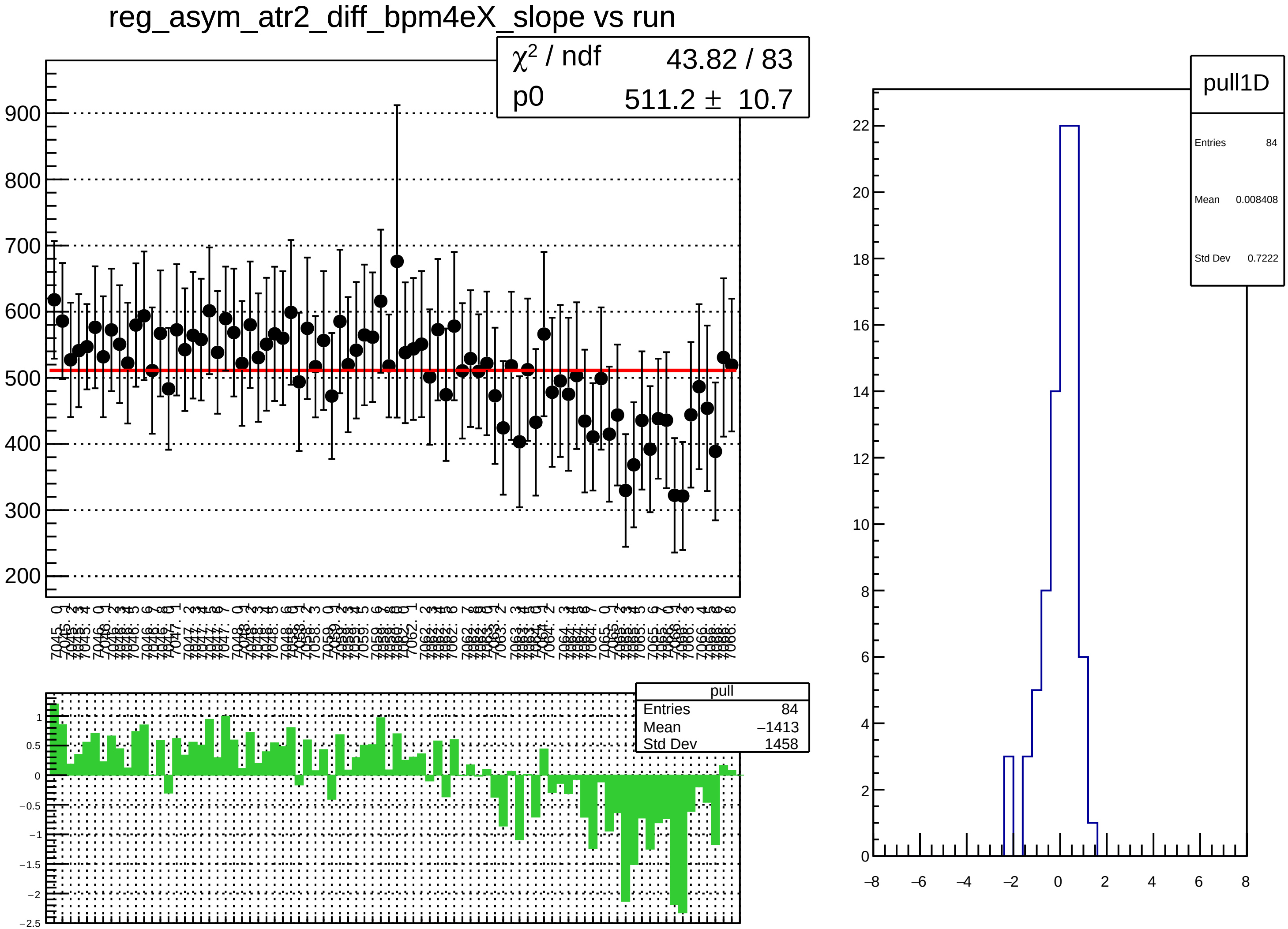


reg_asym_atr1_diff_bpm12X_slope vs run
$\chi^2$ / ndf 146.6 / 83
p0 −14.58 ± 0.1055
pull
Entries 84
Mean 588.8
Std Dev 559.7
pull1D
Entries 84
Mean −0.007205
Std Dev 1.321

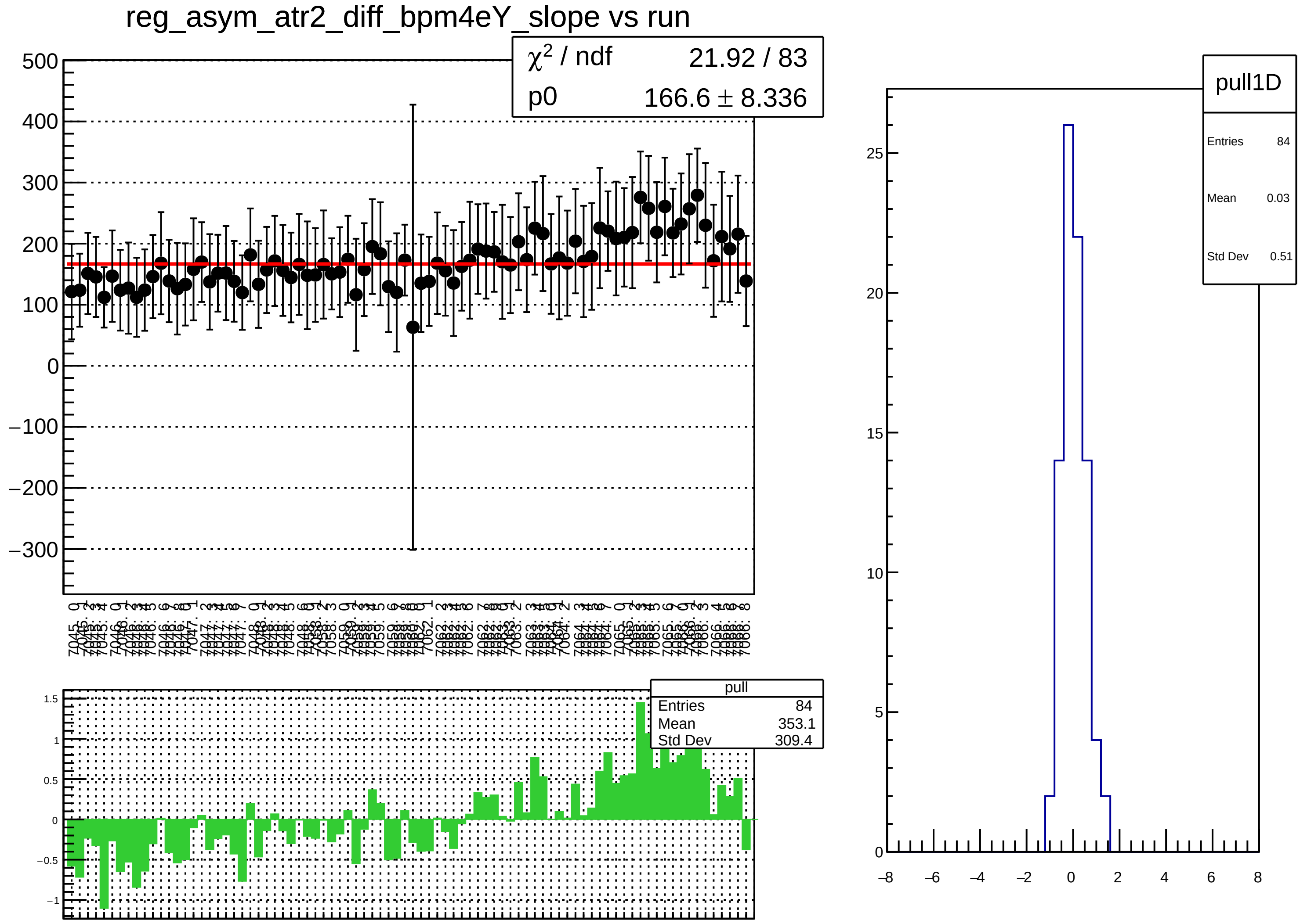

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 46.95 / 83
p0 −427.7 ± 11.23
−100
−200
−300
−400
−500
−600
−700
−800
−900
pull
Entries 84
Mean −948.4
Std Dev 992.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean −0.01326
Std Dev 0.7475
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



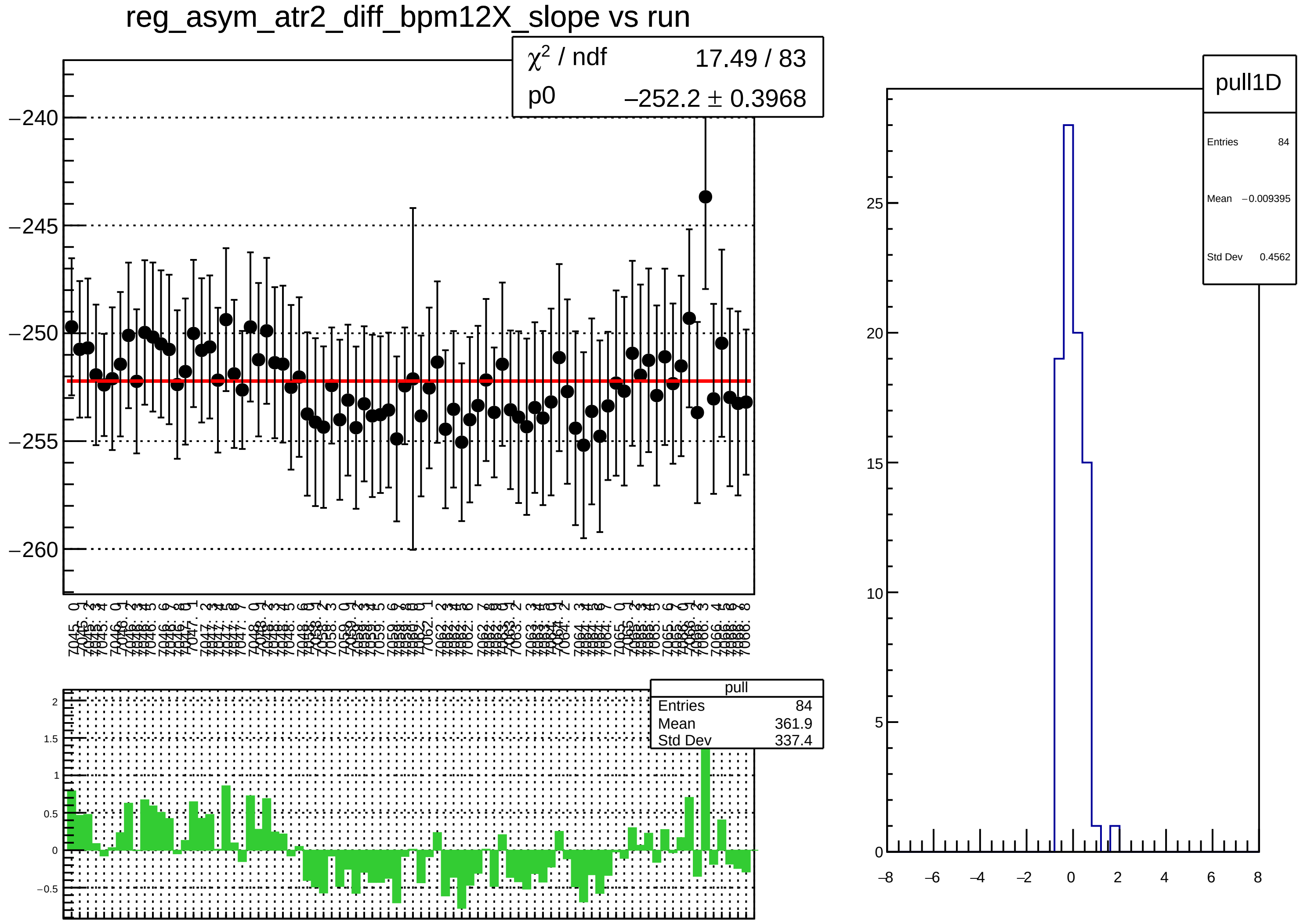
reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 15.86 / 83
p0 −27.15 ± 7.809
pull
Entries 84
Mean 345.3
Std Dev 300.7
pull1D
Entries 84
Mean −0.02358
Std Dev 0.4338

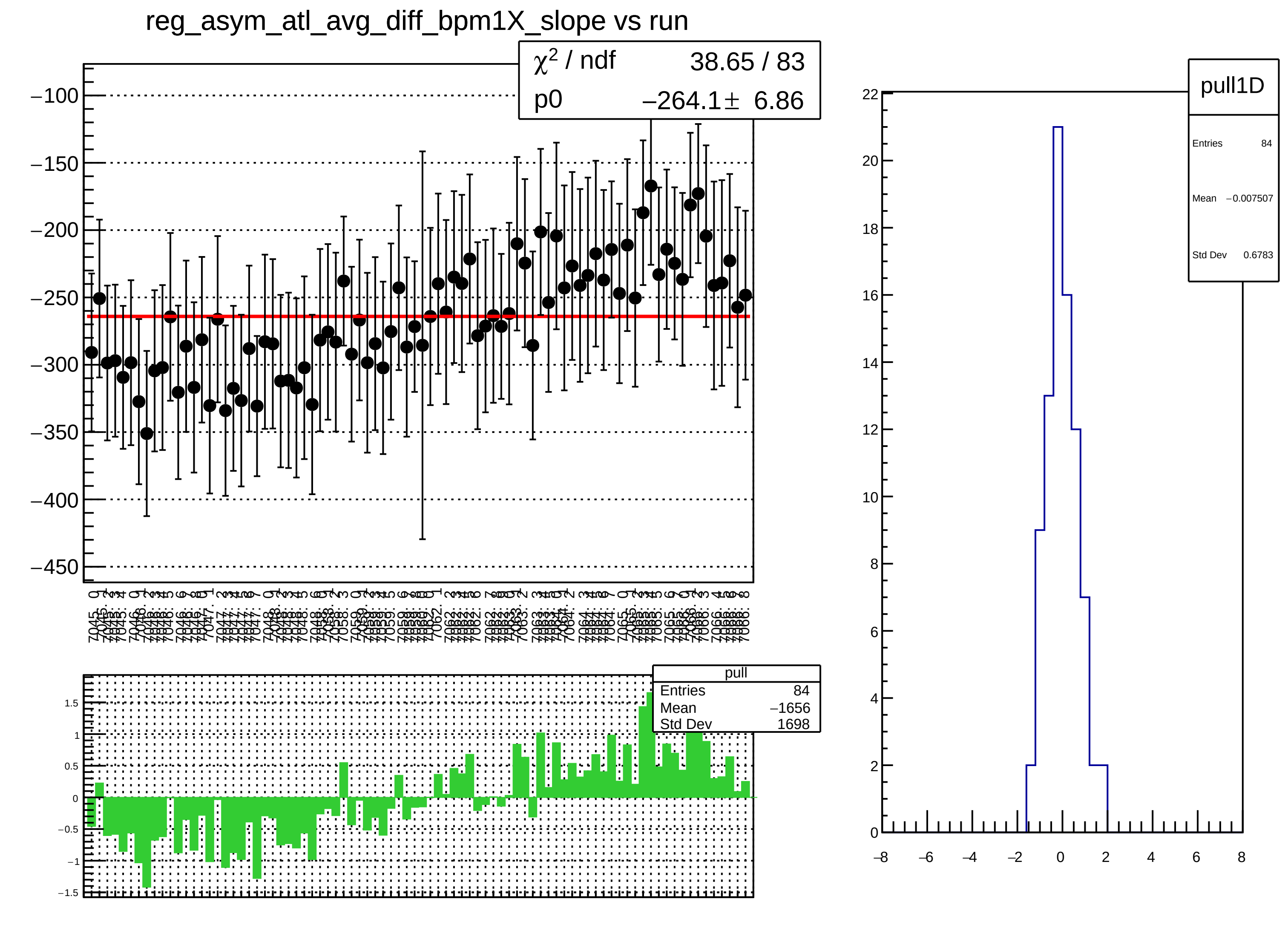


reg_asym_atr2_diff_bpm4eX_slope vs run
χ2 / ndf 43.82 / 83
p0 511.2 ± 10.7
pull
Entries 84
Mean −1413
Std Dev 1458
pull1D
Entries 84
Mean 0.008408
Std Dev 0.7222



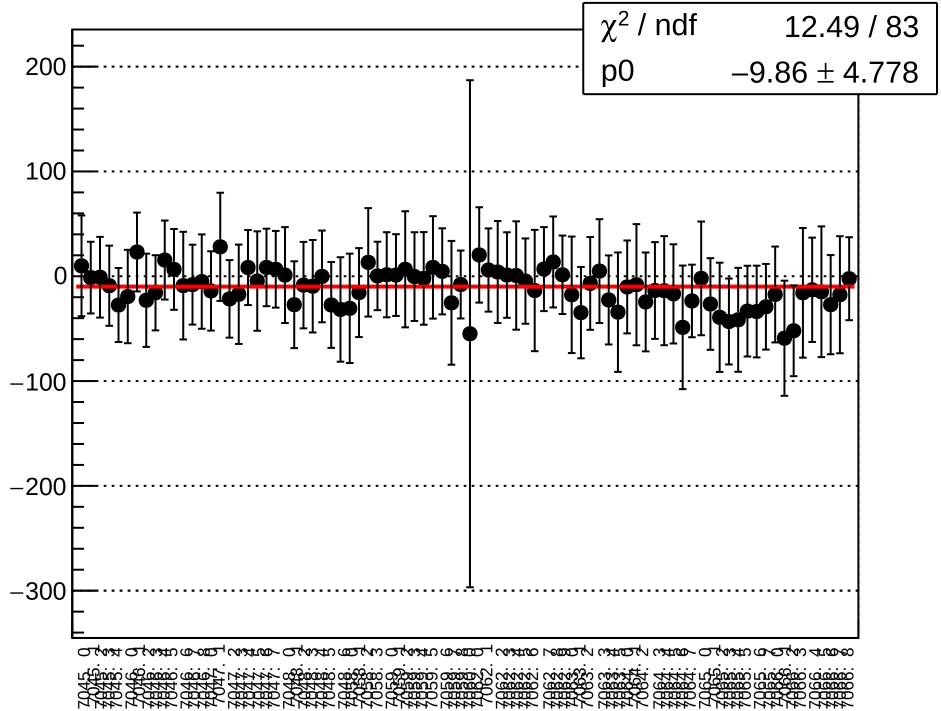
reg_asym_atr2_diff_bpm4eY_slope vs run
χ2 / ndf 21.92 / 83
p0 166.6 ± 8.336
pull
Entries 84
Mean 353.1
Std Dev 309.4
pull1D
Entries 84
Mean 0.03
Std Dev 0.51

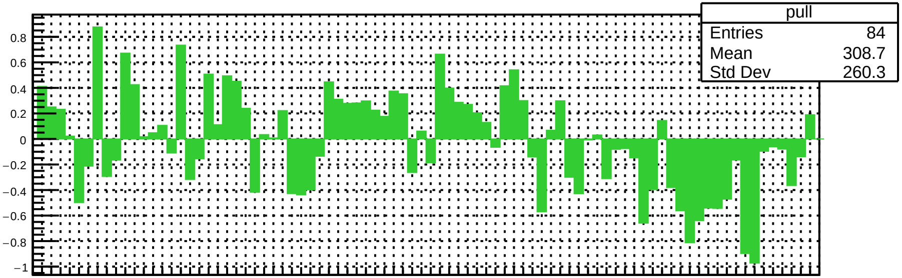

reg_asym_atr2_diff_bpm12X_slope vs run
χ2 / ndf 17.49 / 83
p0 −252.2 ± 0.3968
pull
Entries 84
Mean 361.9
Std Dev 337.4
pull1D
Entries 84
Mean −0.009395
Std Dev 0.4562

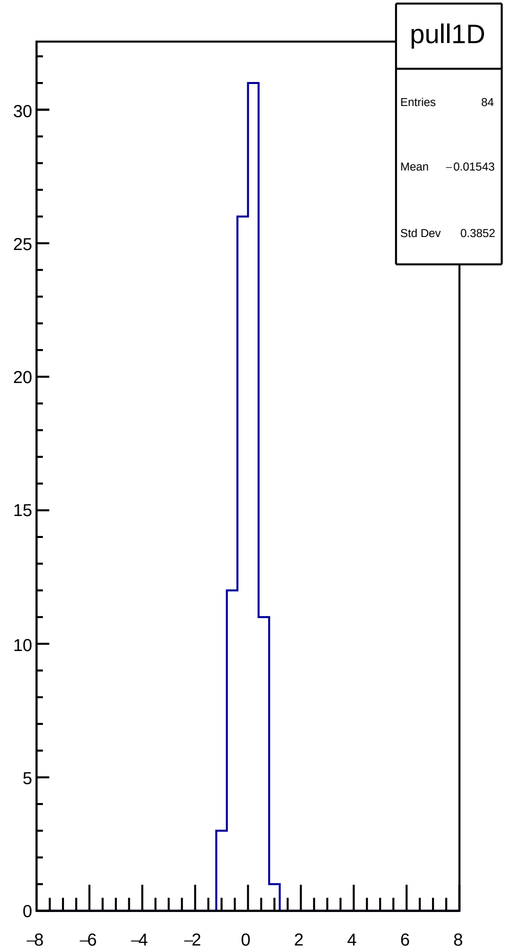


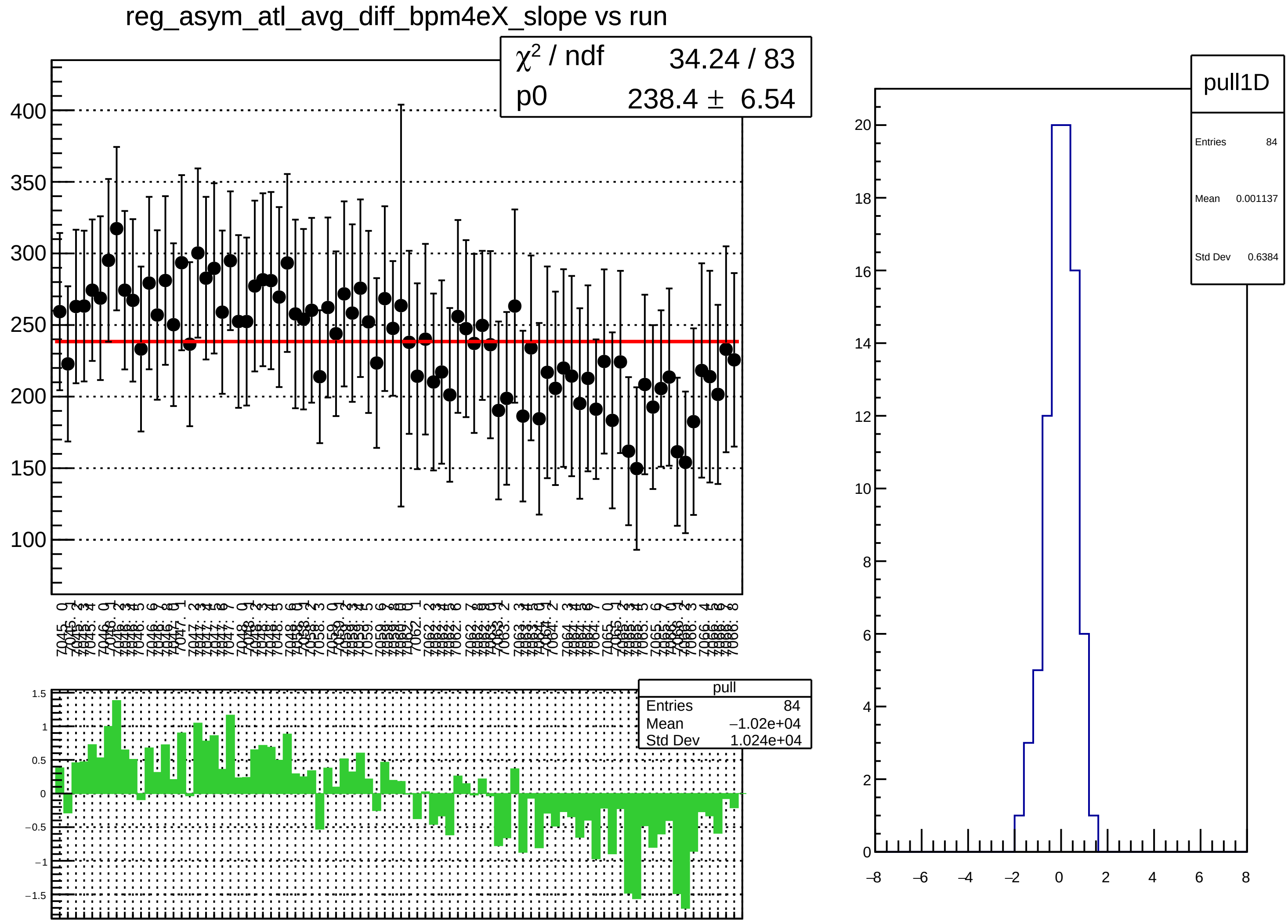
reg_asym_atl_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 38.65 / 83
p0 −264.1 ± 6.86
pull
Entries 84
Mean −1656
Std Dev 1698
pull1D
Entries 84
Mean −0.007507
Std Dev 0.6783

reg_asym_atl_avg_diff_bpm4aY_slope vs run

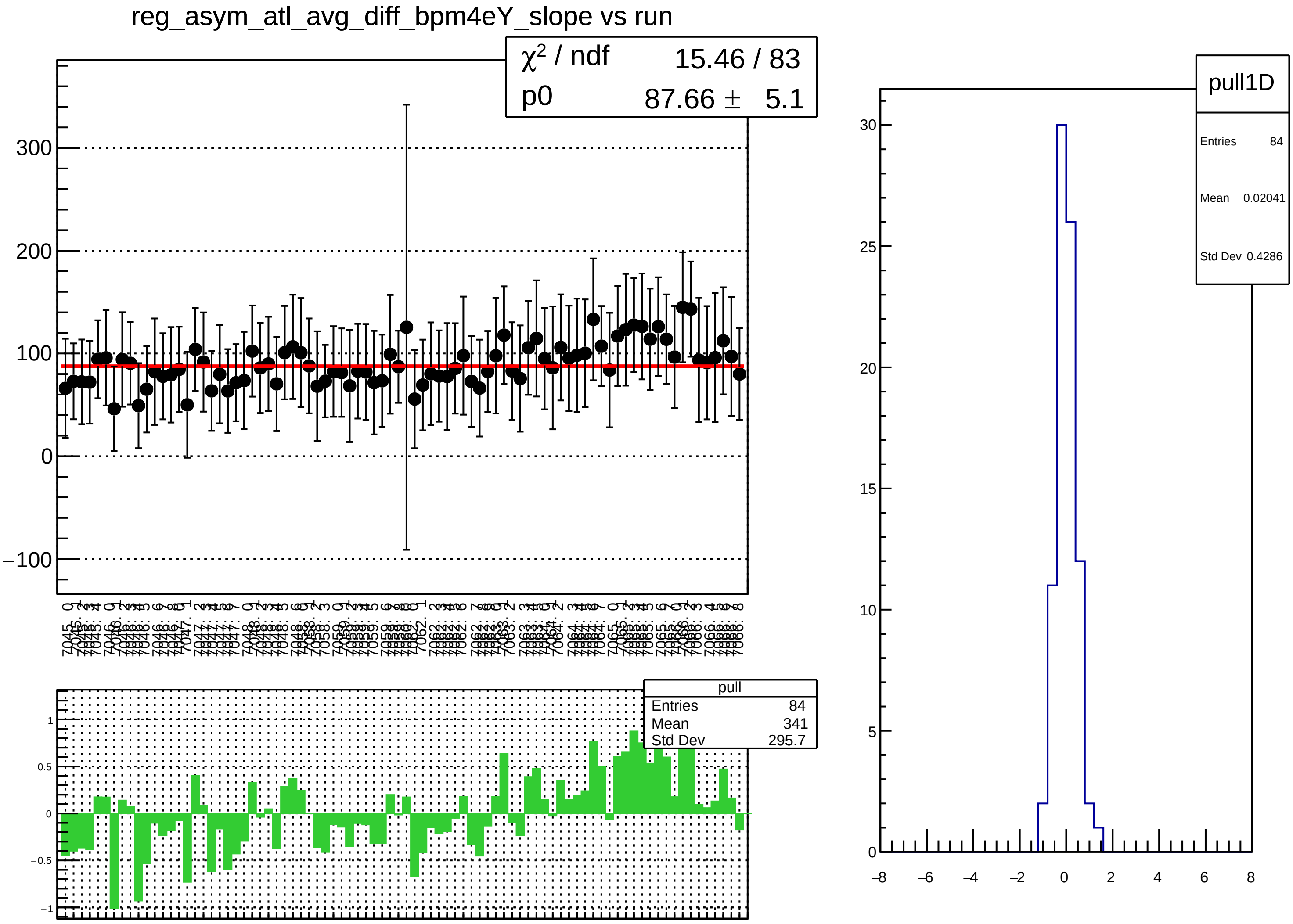


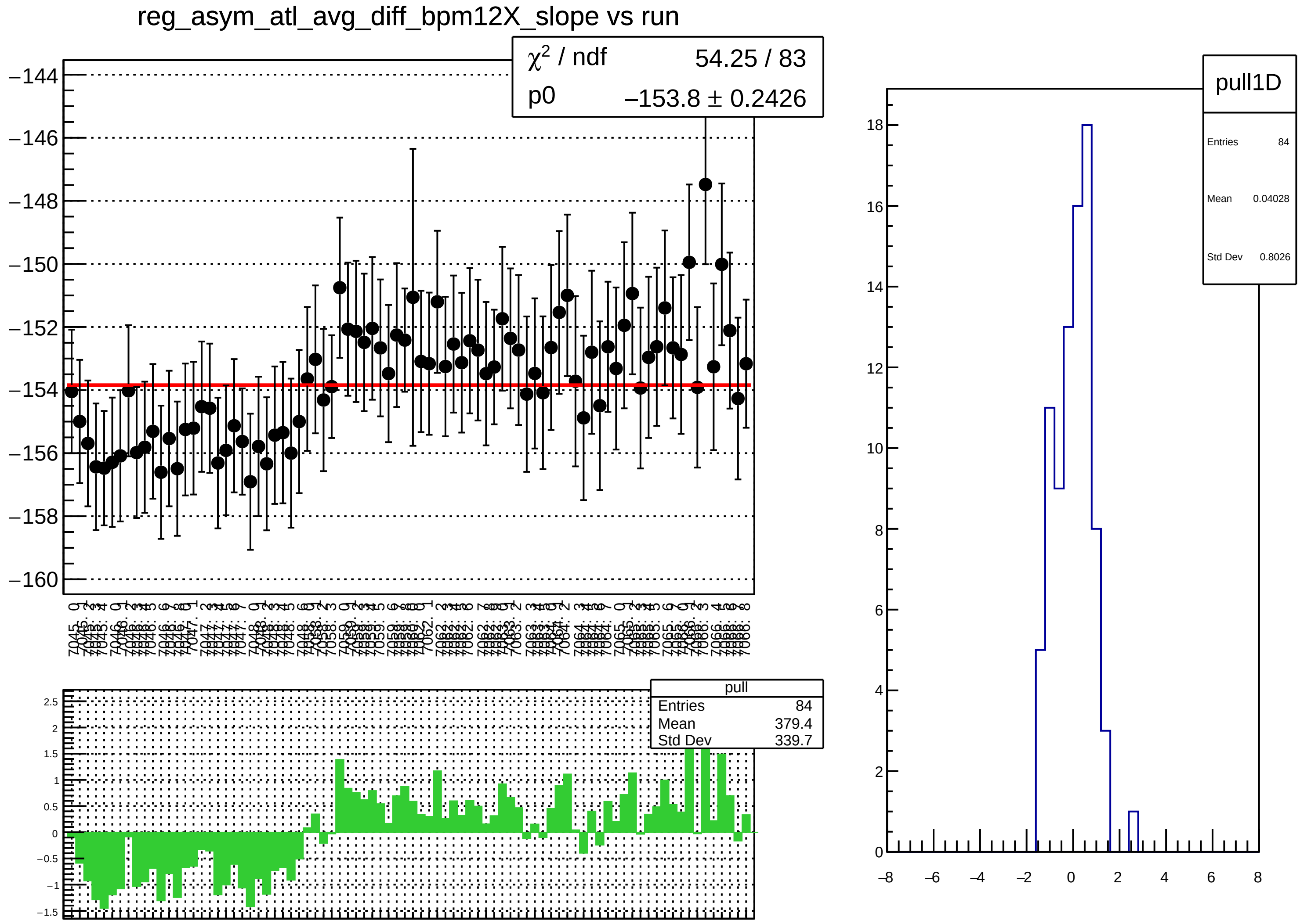





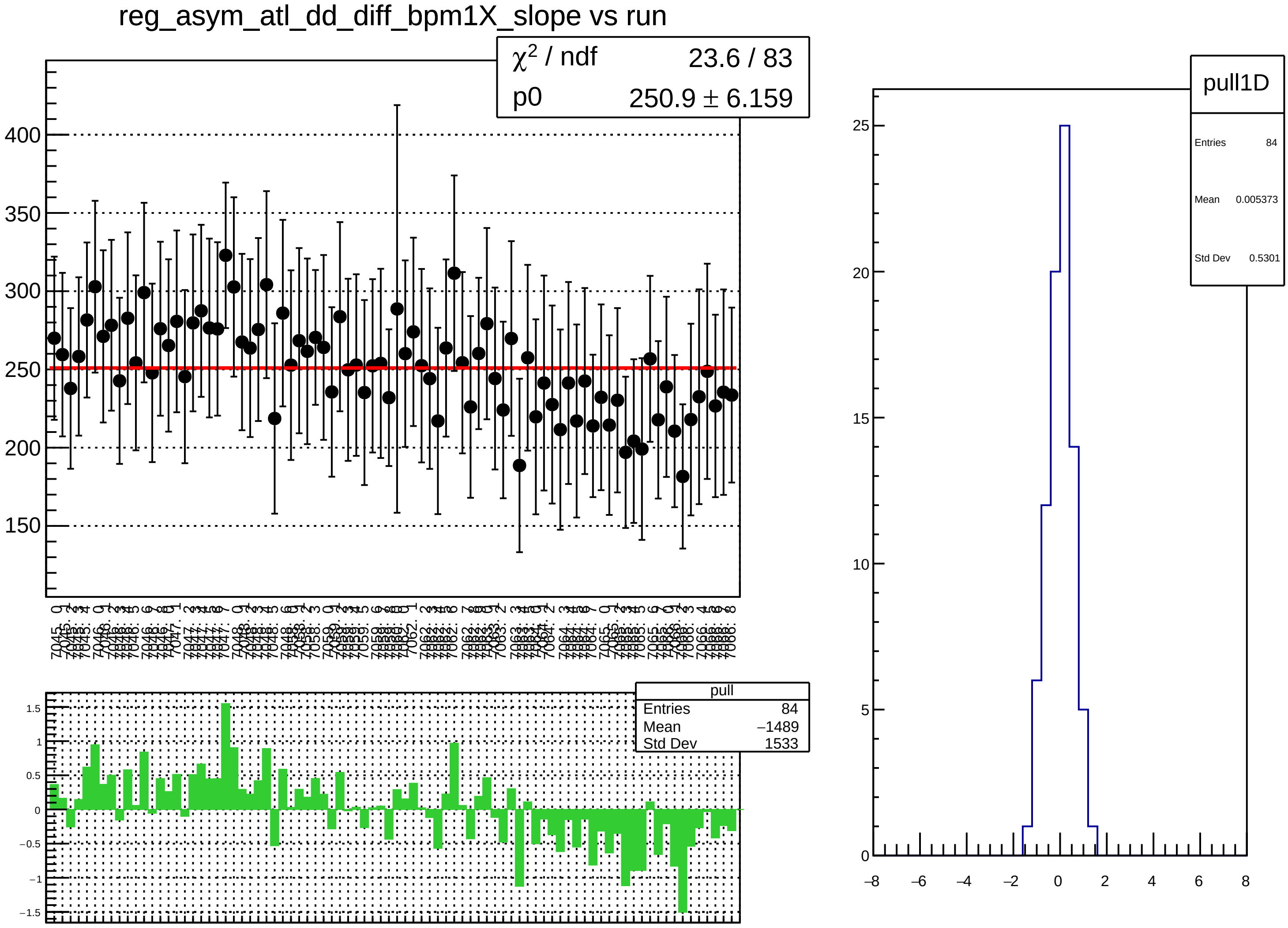
reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ2 / ndf 34.24 / 83
p0 238.4 ± 6.54
pull
Entries 84
Mean −1.02e+04
Std Dev 1.024e+04
pull1D
Entries 84
Mean 0.001137
Std Dev 0.6384



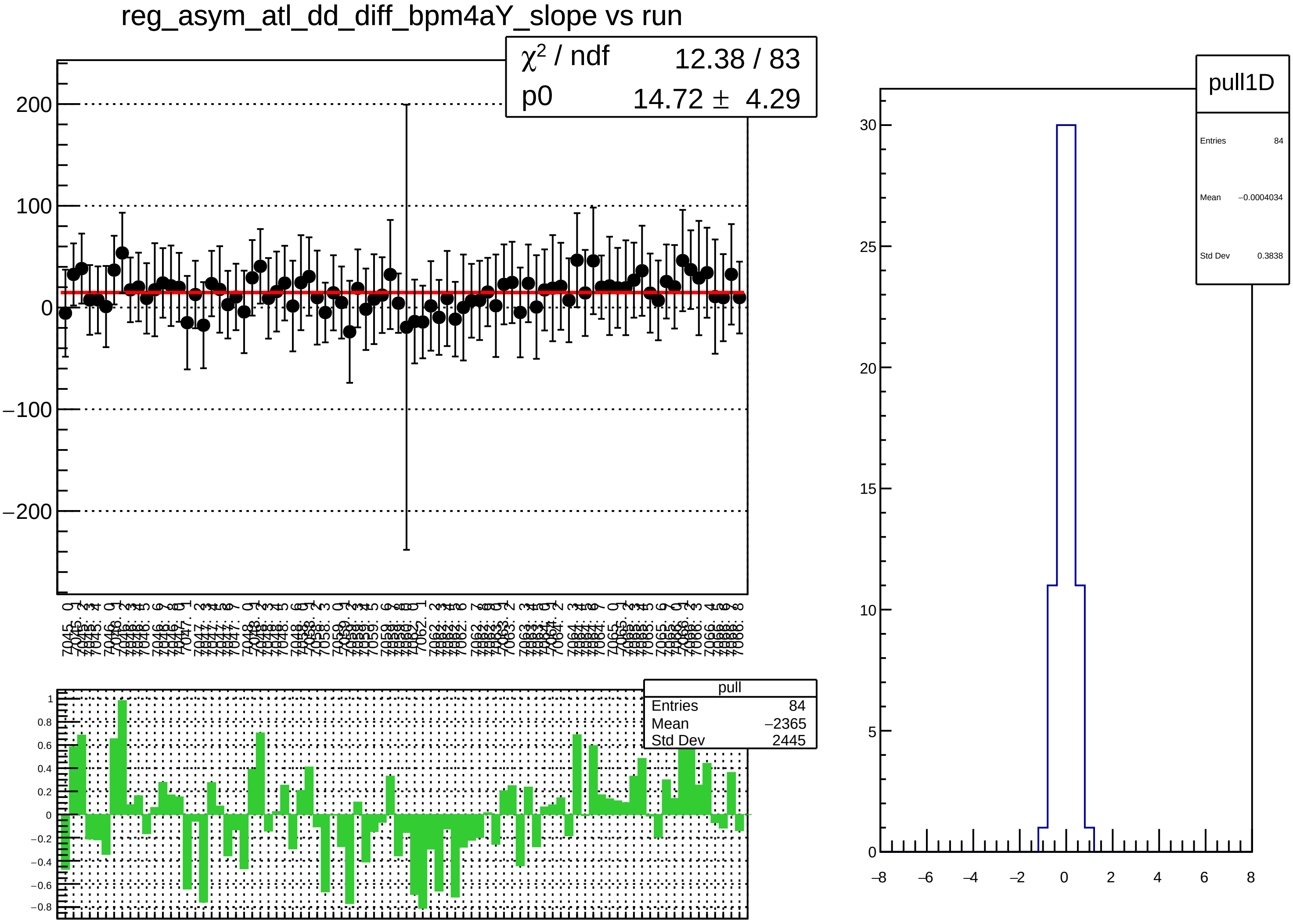
reg_asym_atl_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 15.46 / 83
p0 87.66 ± 5.1
pull
Entries 84
Mean 341
Std Dev 295.7
pull1D
Entries 84
Mean 0.02041
Std Dev 0.4286



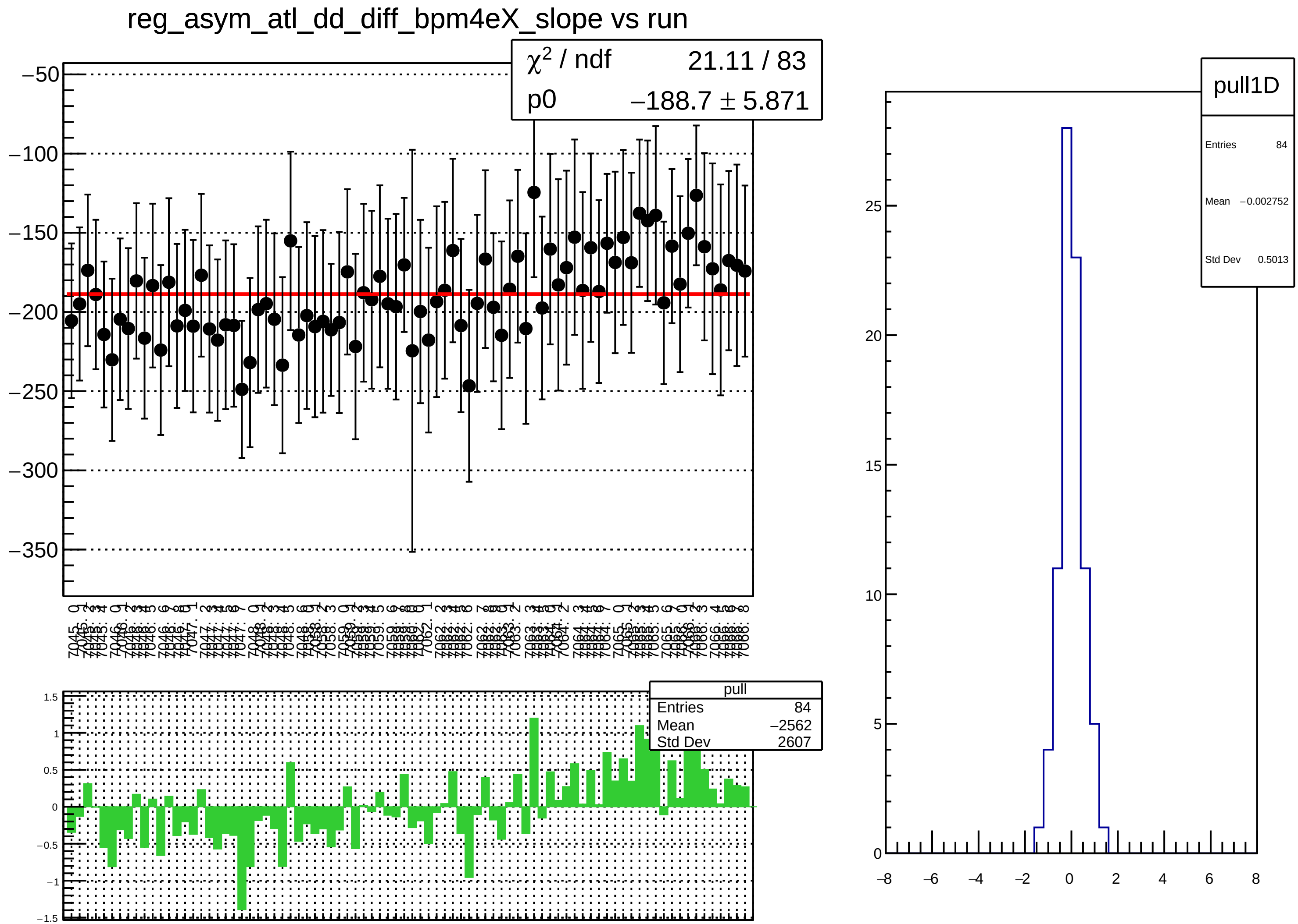
reg_asym_atl_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 54.25 / 83
p0 −153.8 ± 0.2426
pull
Entries 84
Mean 379.4
Std Dev 339.7
pull1D
Entries 84
Mean 0.04028
Std Dev 0.8026



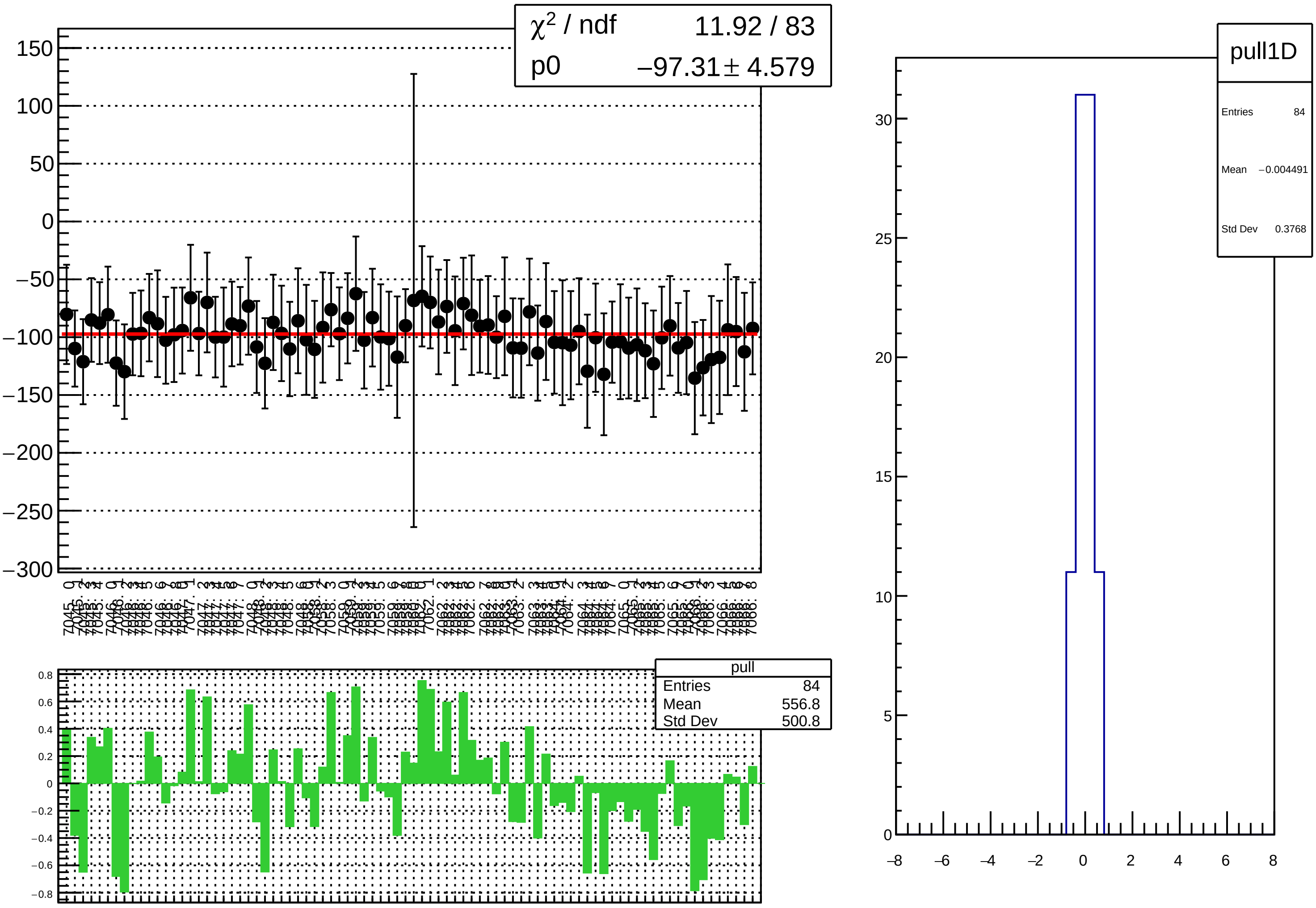
reg_asym_atl_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 23.6 / 83
p0 250.9 ± 6.159
pull
Entries 84
Mean −1489
Std Dev 1533
pull1D
Entries 84
Mean 0.005373
Std Dev 0.5301

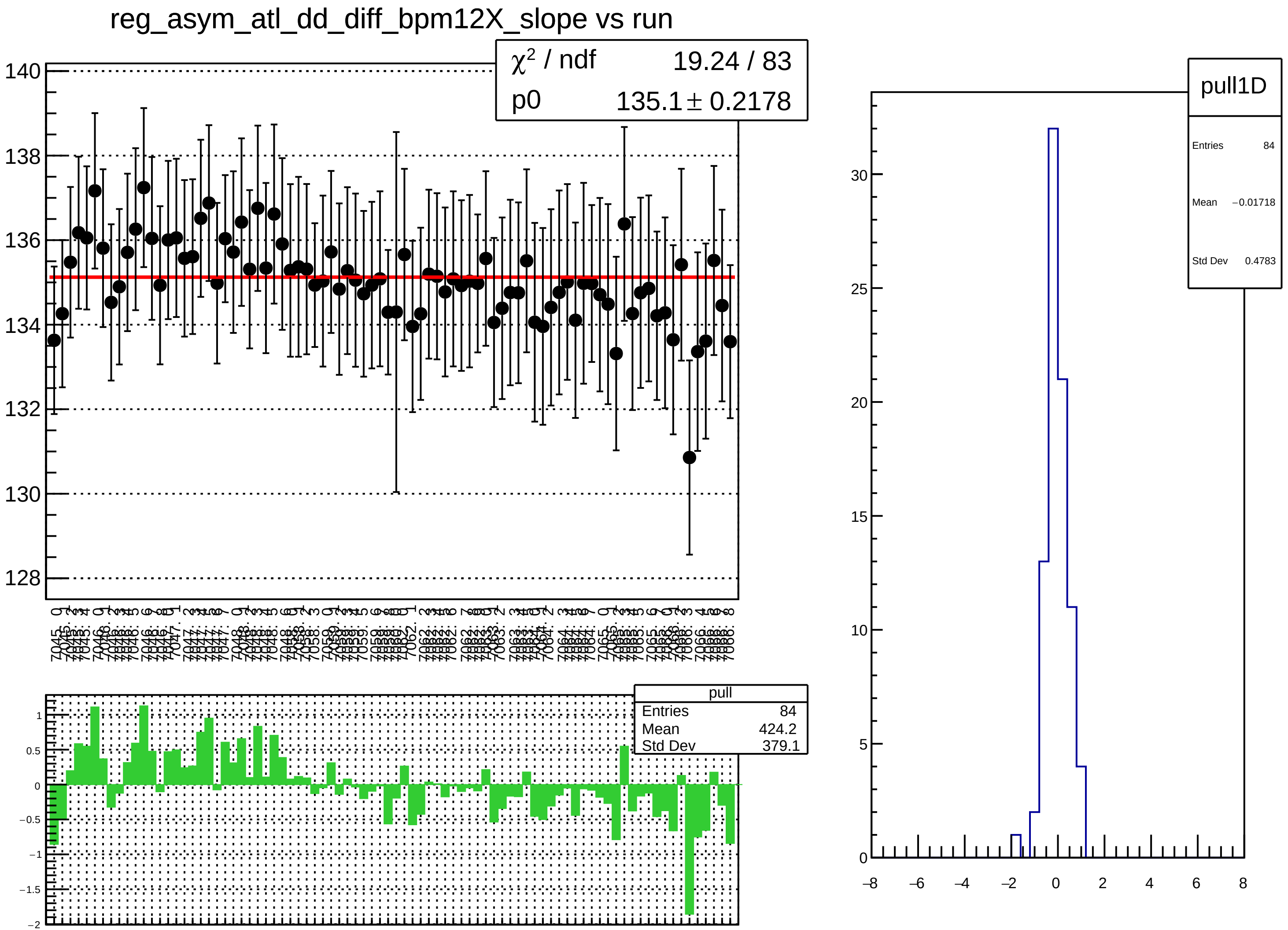


reg_asym_atl_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 12.38 / 83
p0 14.72 ± 4.29
pull
Entries 84
Mean −2365
Std Dev 2445
pull1D
Entries 84
Mean −0.0004034
Std Dev 0.3838

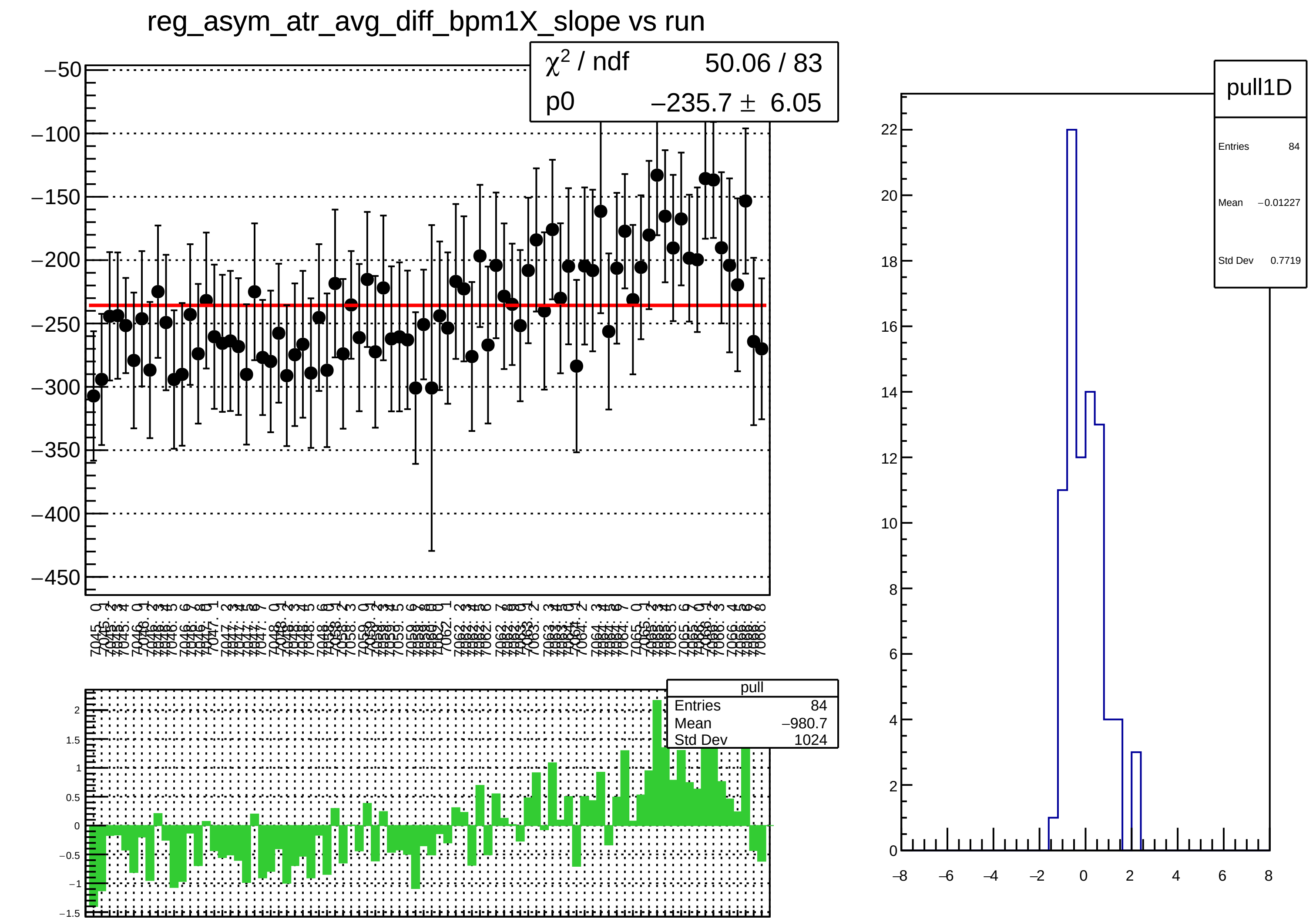

reg_asym_atl_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 21.11 / 83
p0 −188.7 ± 5.871
pull
Entries 84
Mean −2562
Std Dev 2607
pull1D
Entries 84
Mean −0.002752
Std Dev 0.5013

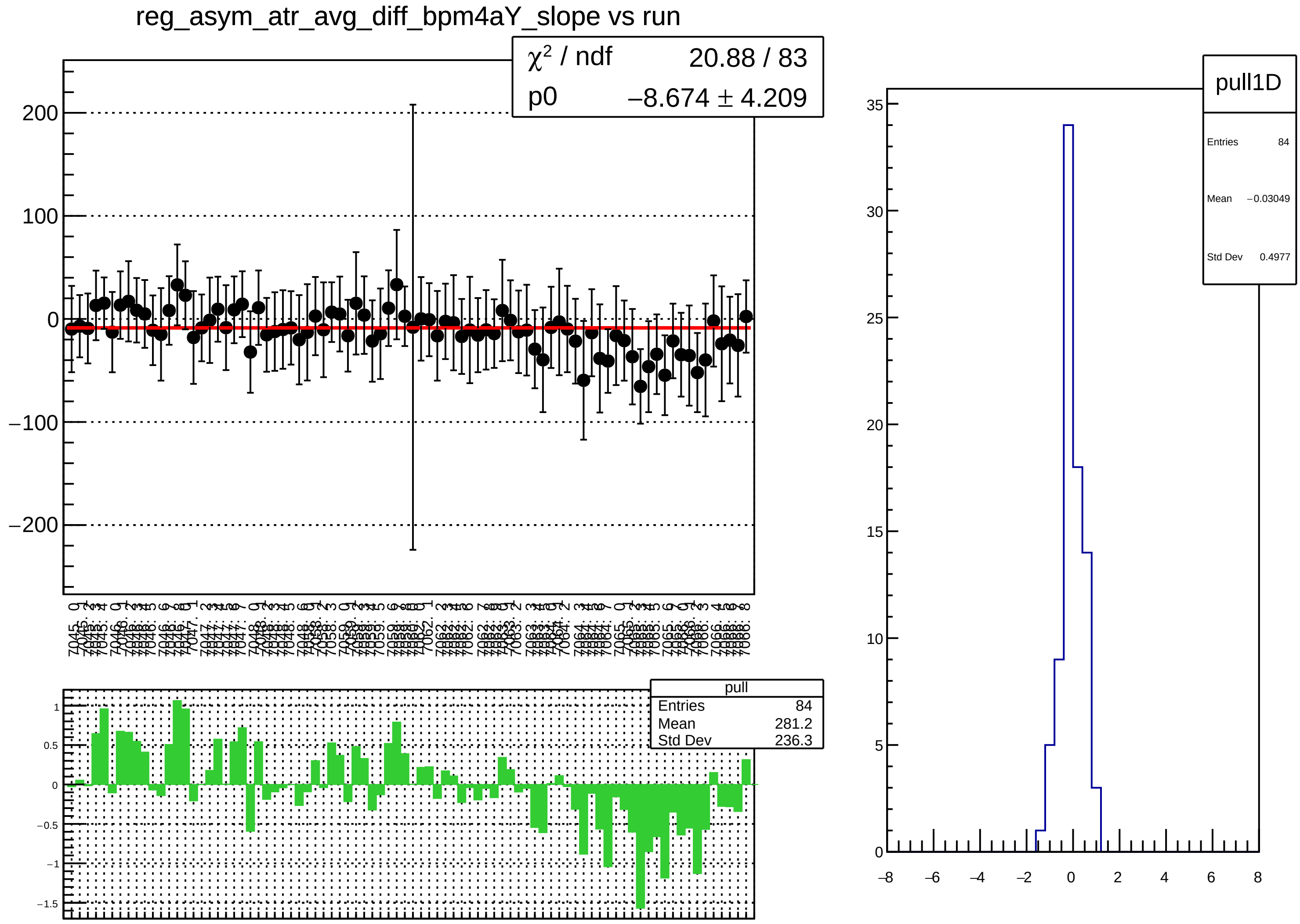
reg_asym_atl_dd_diff_bpm4eY_slope vs run



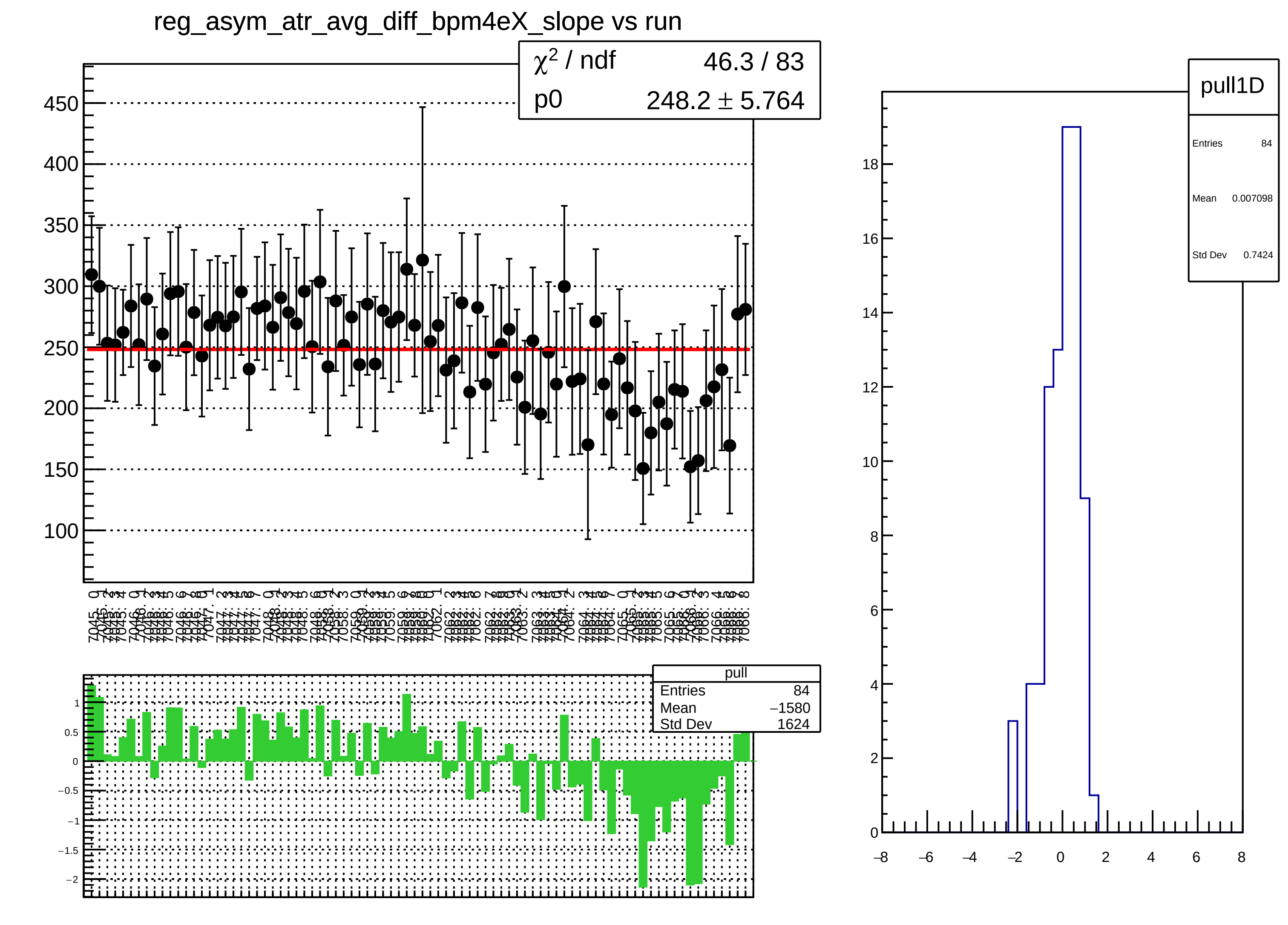


reg_asym_atl_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 19.24 / 83
p0 135.1 ± 0.2178
140
138
136
134
132
130
128
pull
Entries 84
Mean 424.2
Std Dev 379.1
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.01718
Std Dev 0.4783
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

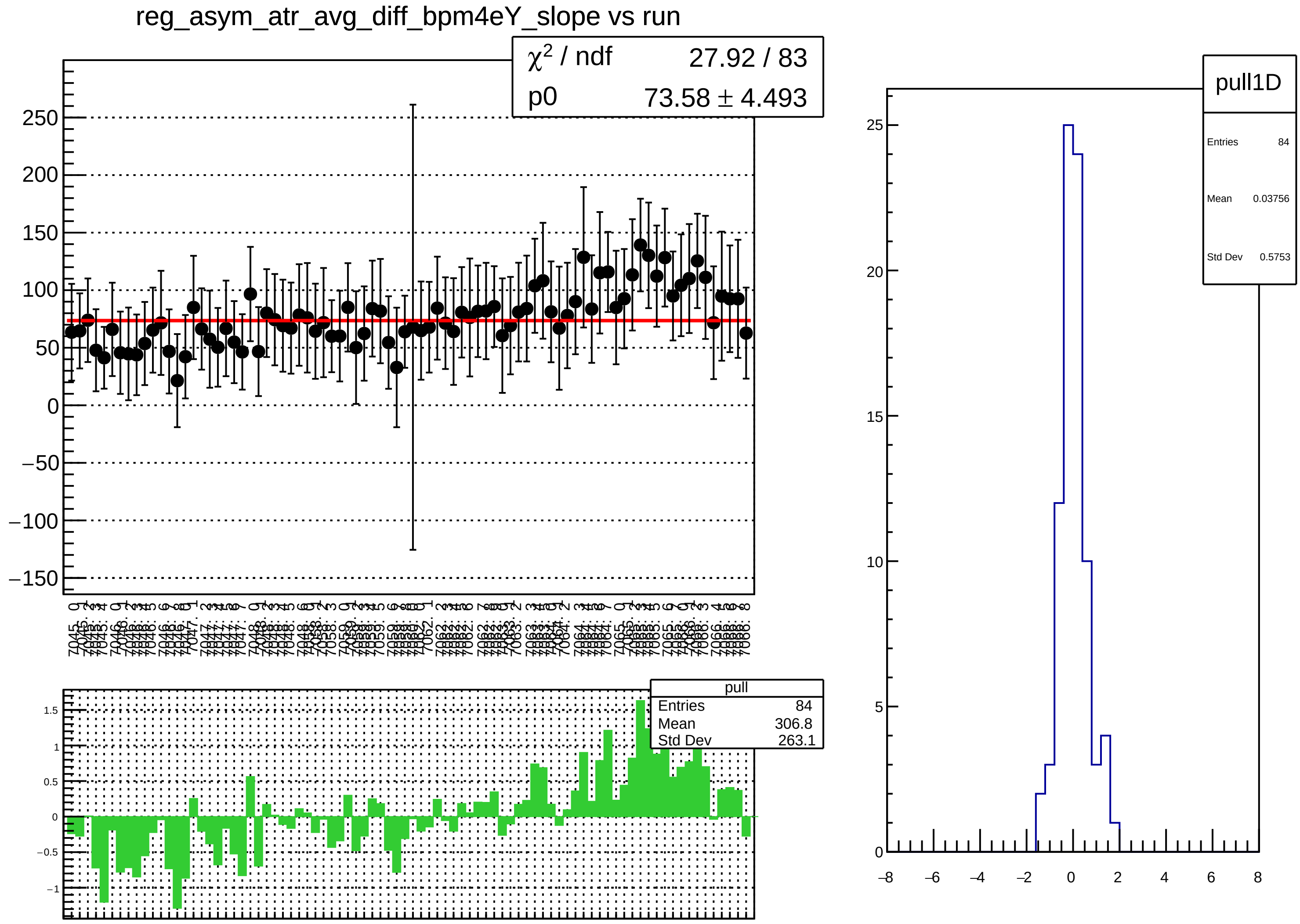

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ2 / ndf 50.06 / 83
p0 −235.7 ± 6.05
pull
Entries 84
Mean −980.7
Std Dev 1024
pull1D
Entries 84
Mean −0.01227
Std Dev 0.7719



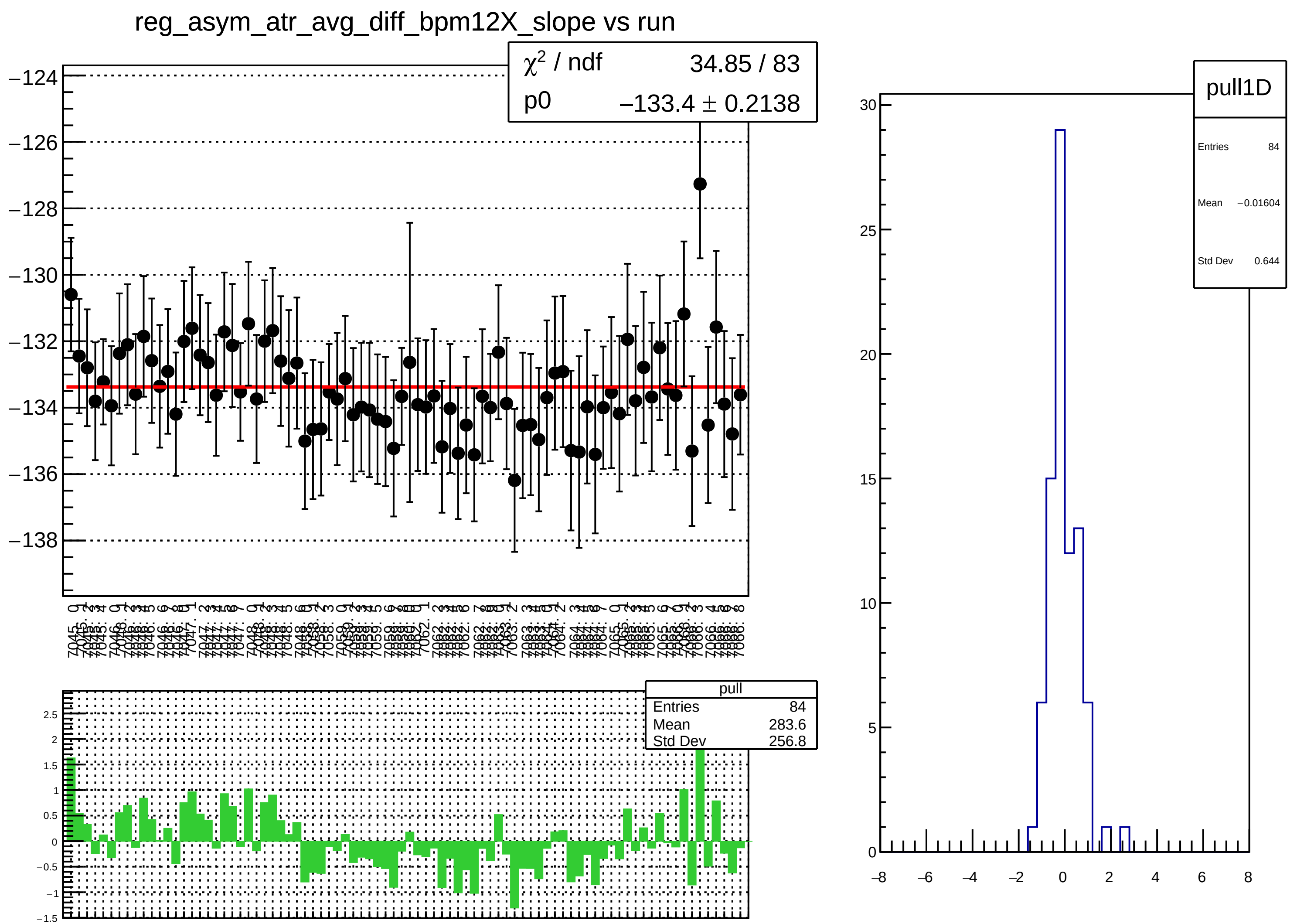
reg_asym_atr_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 20.88 / 83
p0 −8.674 ± 4.209
pull
Entries 84
Mean 281.2
Std Dev 236.3
pull1D
Entries 84
Mean −0.03049
Std Dev 0.4977



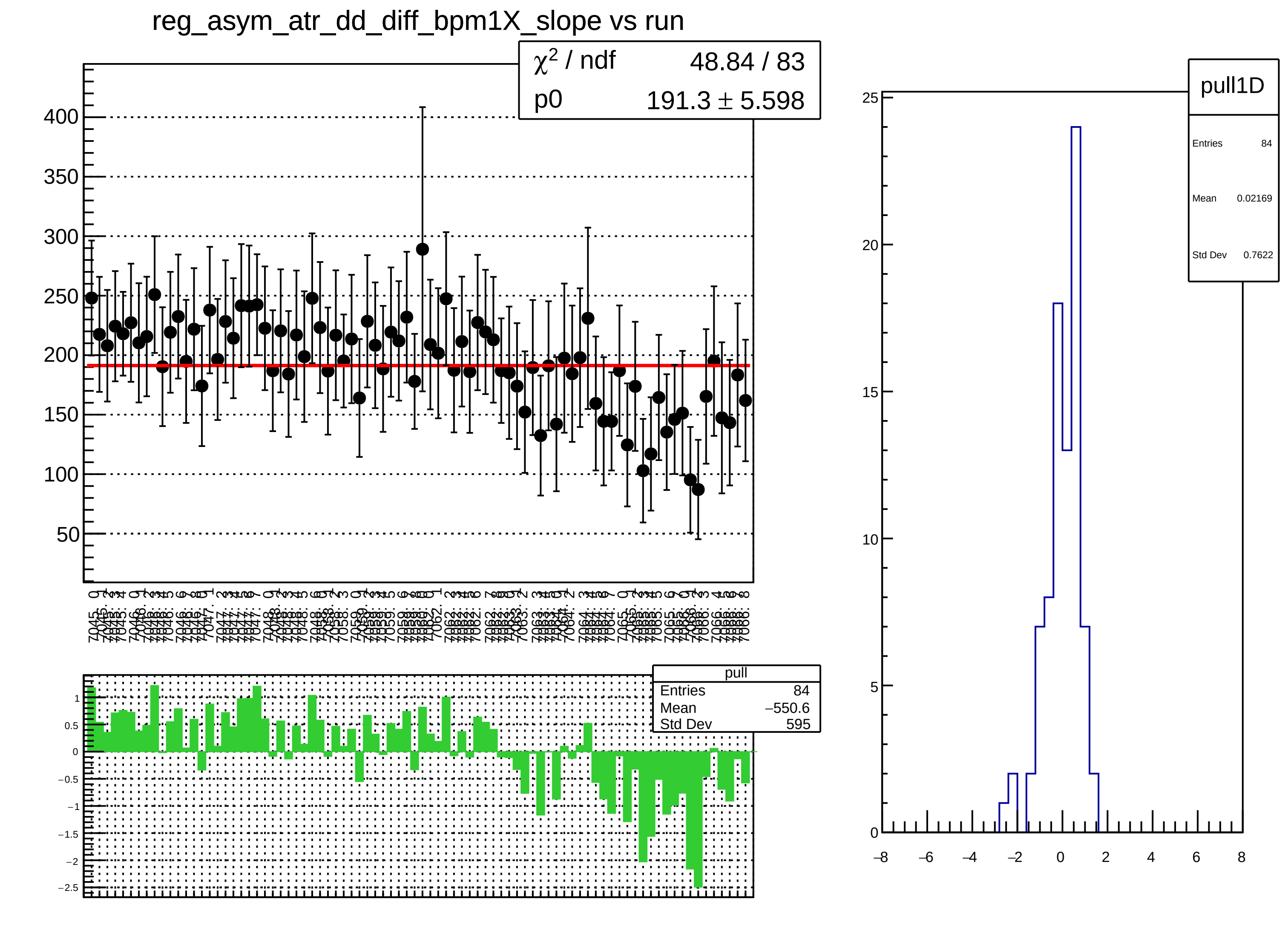
reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ2 / ndf 46.3 / 83
p0 248.2 ± 5.764
pull
Entries 84
Mean −1580
Std Dev 1624
pull1D
Entries 84
Mean 0.007098
Std Dev 0.7424



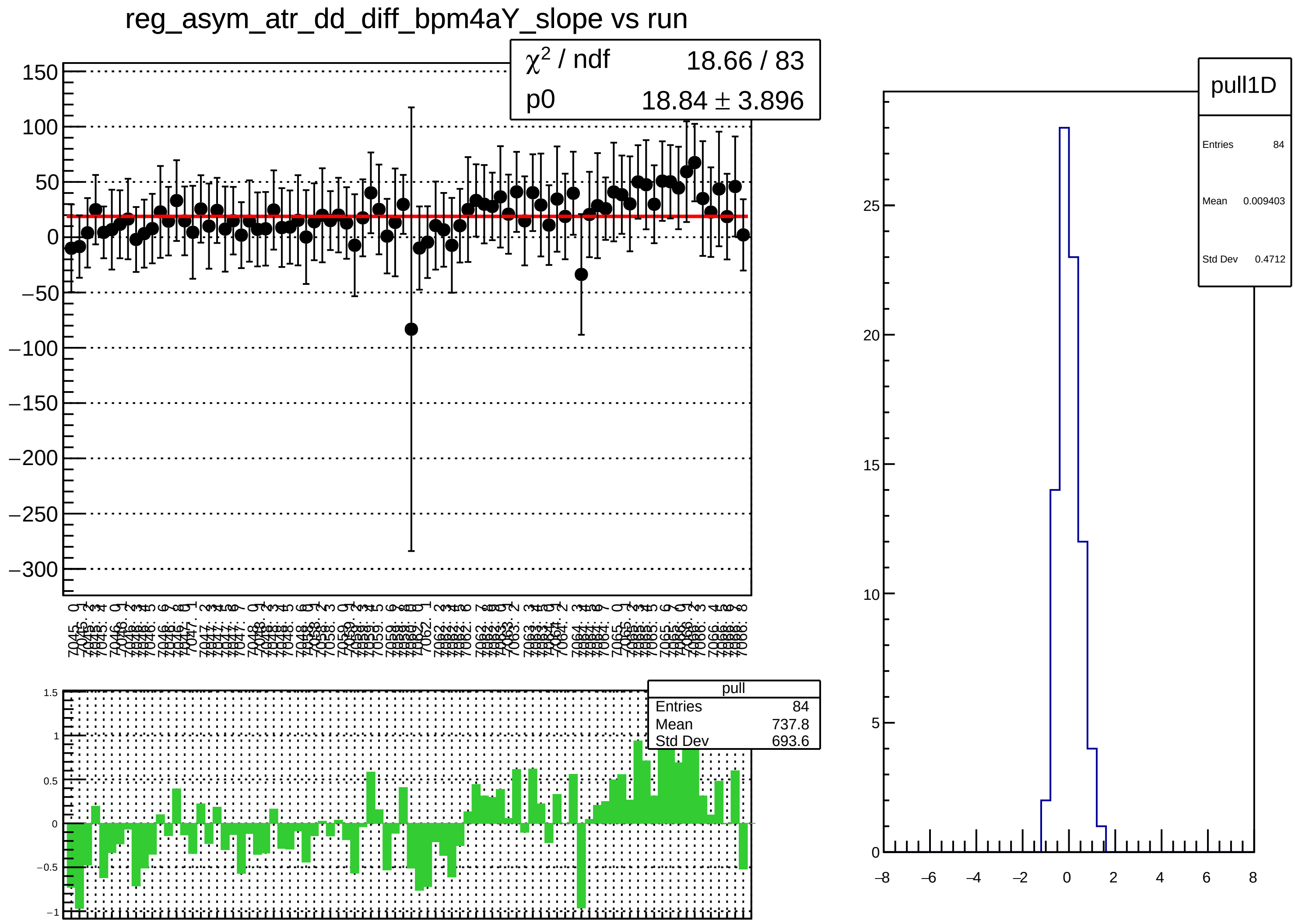
reg_asym_atr_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 27.92 / 83
p0 73.58 ± 4.493
pull
Entries 84
Mean 306.8
Std Dev 263.1
pull1D
Entries 84
Mean 0.03756
Std Dev 0.5753



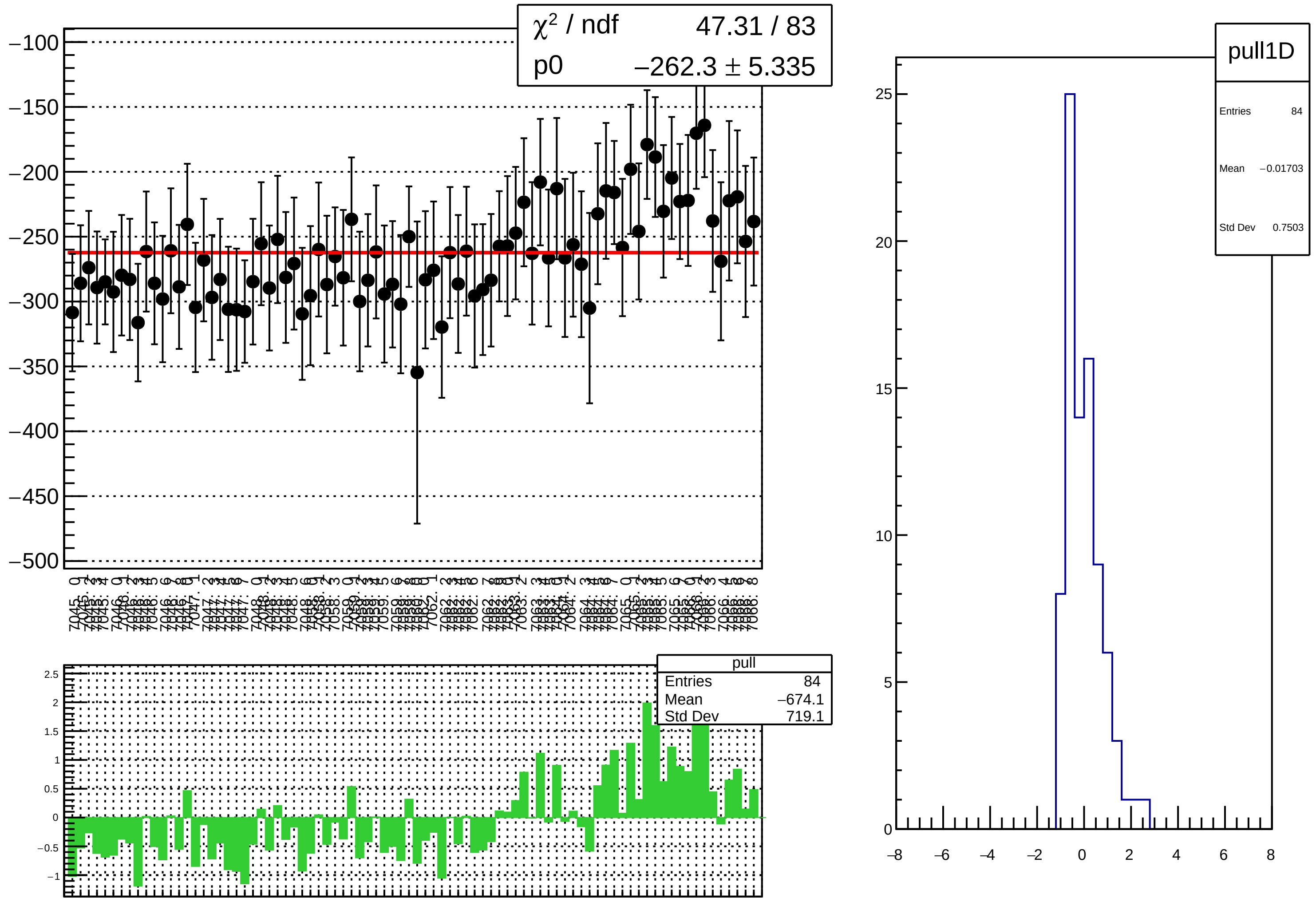
reg_asym_atr_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 34.85 / 83
p0 −133.4 ± 0.2138
pull
Entries 84
Mean 283.6
Std Dev 256.8
pull1D
Entries 84
Mean −0.01604
Std Dev 0.644

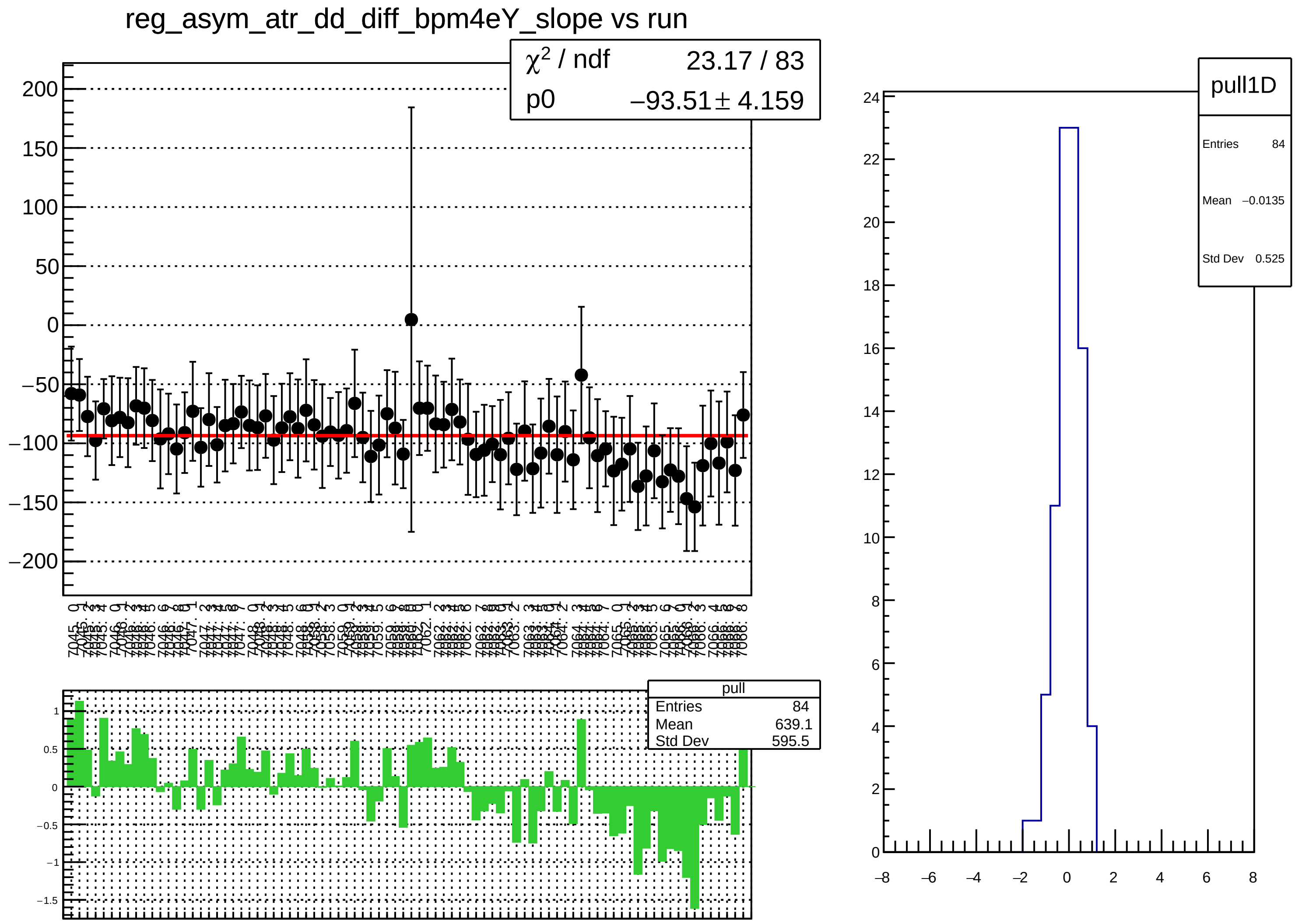


reg_asym_atr_dd_diff_bpm1X_slope vs run
χ2 / ndf 48.84 / 83
p0 191.3 ± 5.598
400
350
300
250
200
150
100
50
pull
Entries 84
Mean −550.6
Std Dev 595
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean 0.02169
Std Dev 0.7622
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

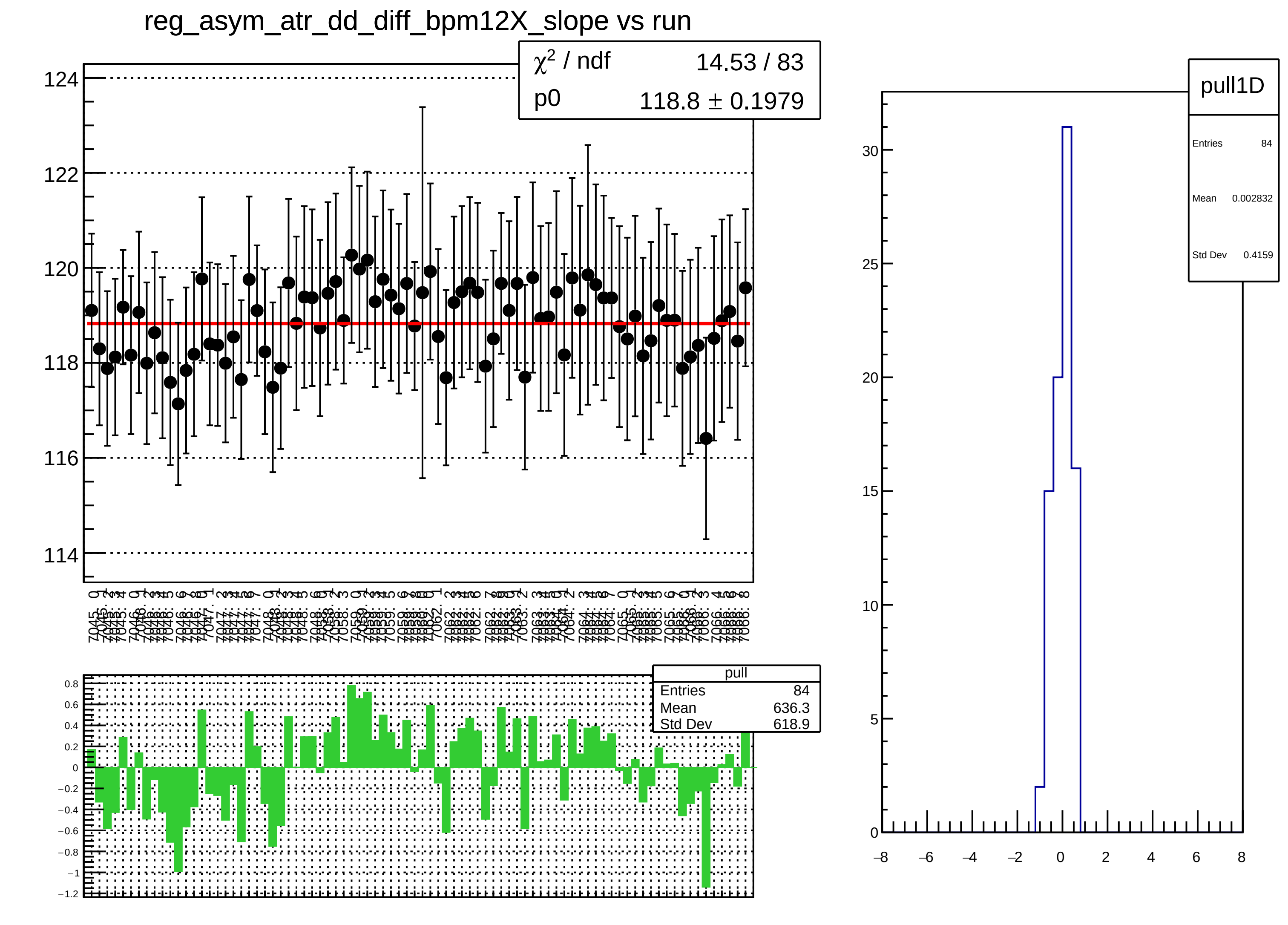

reg_asym_atr_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 18.66 / 83
p0 18.84 ± 3.896
pull
Entries 84
Mean 737.8
Std Dev 693.6
pull1D
Entries 84
Mean 0.009403
Std Dev 0.4712

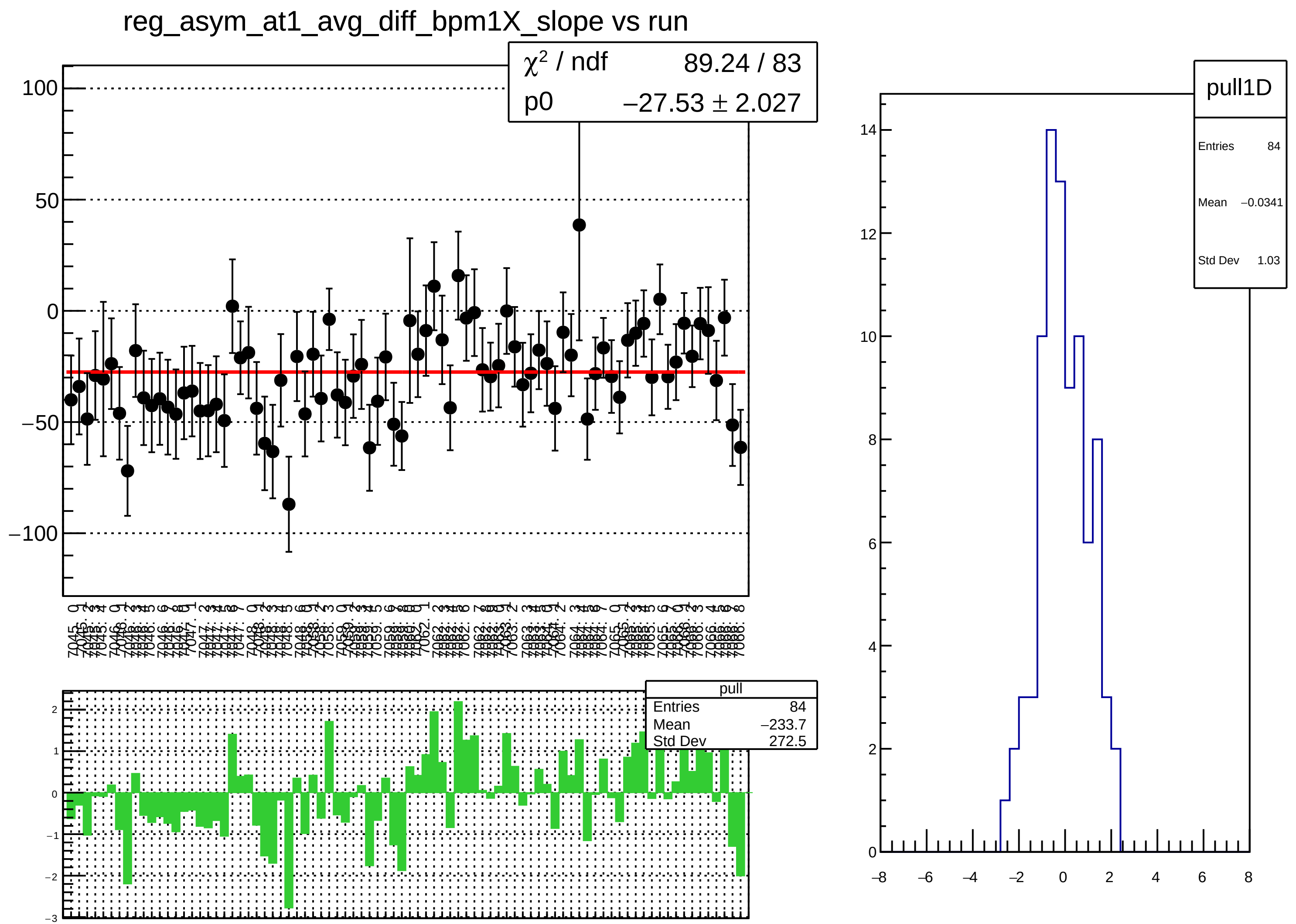
reg_asym_atr_dd_diff_bpm4eX_slope vs run



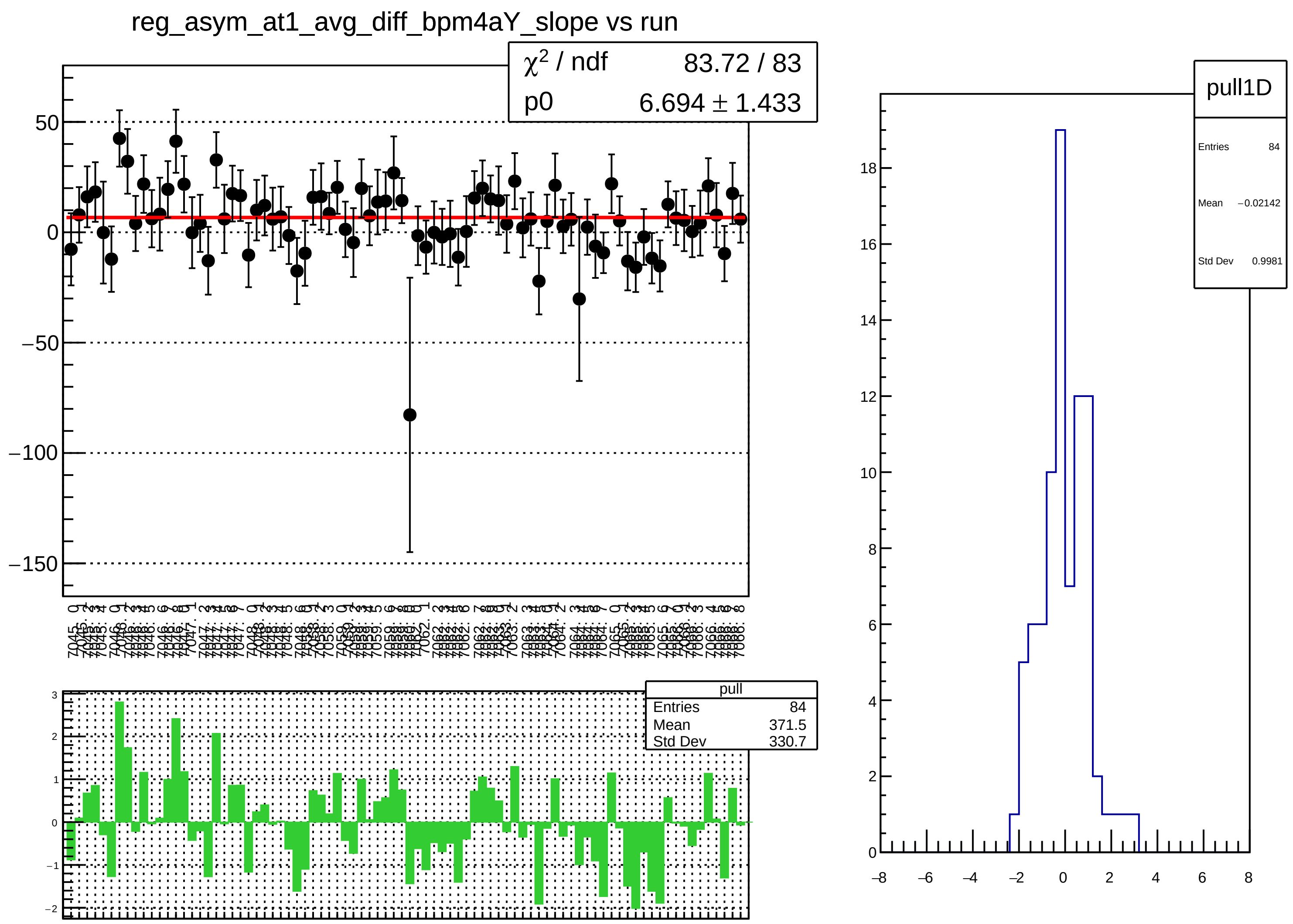


reg_asym_atr_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 23.17 / 83
p0 −93.51 ± 4.159
pull
Entries 84
Mean 639.1
Std Dev 595.5
pull1D
Entries 84
Mean −0.0135
Std Dev 0.525

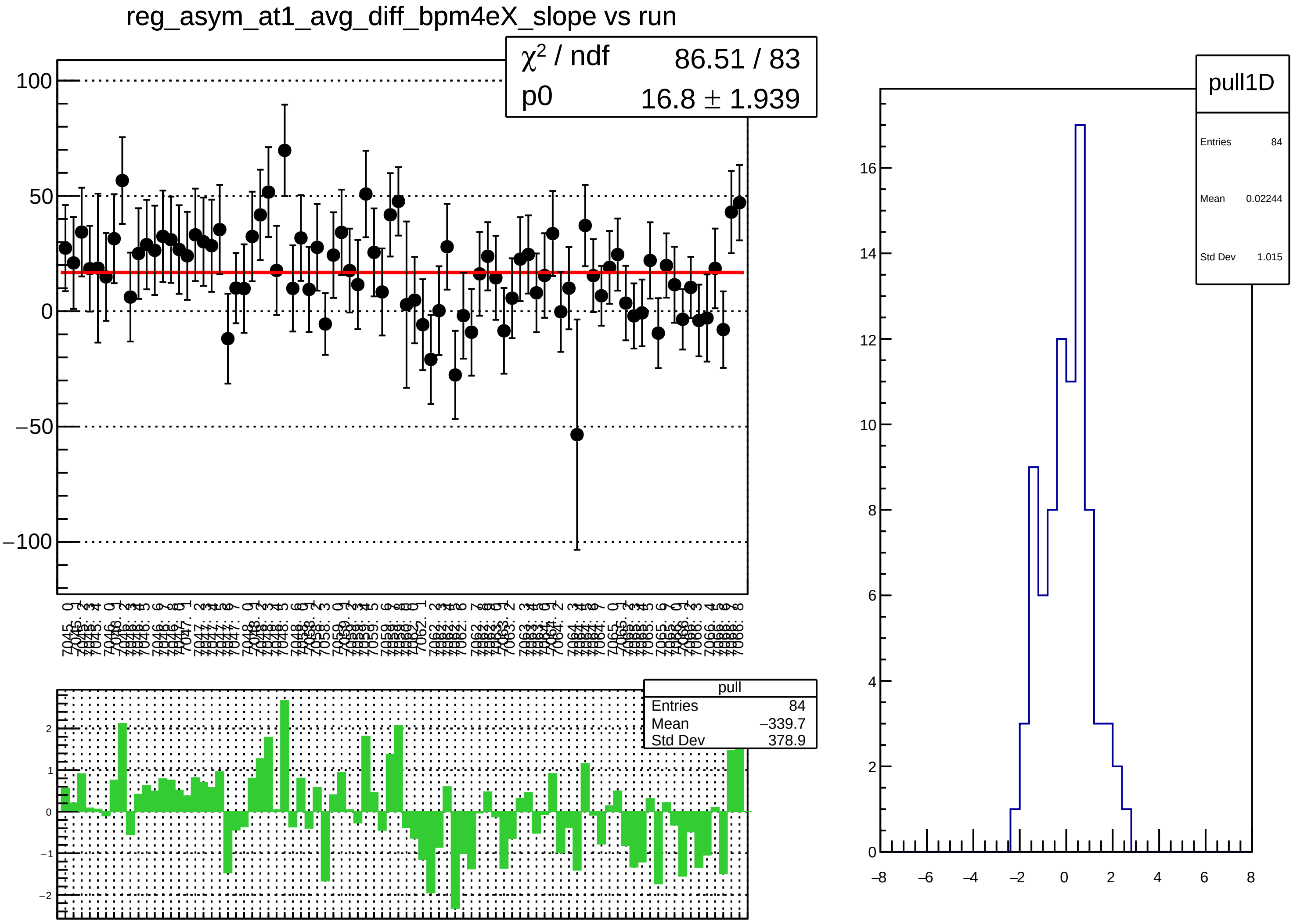

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ2 / ndf 14.53 / 83
p0 118.8 ± 0.1979
124
122
120
118
116
114
pull
Entries 84
Mean 636.3
Std Dev 618.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 84
Mean 0.002832
Std Dev 0.4159
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



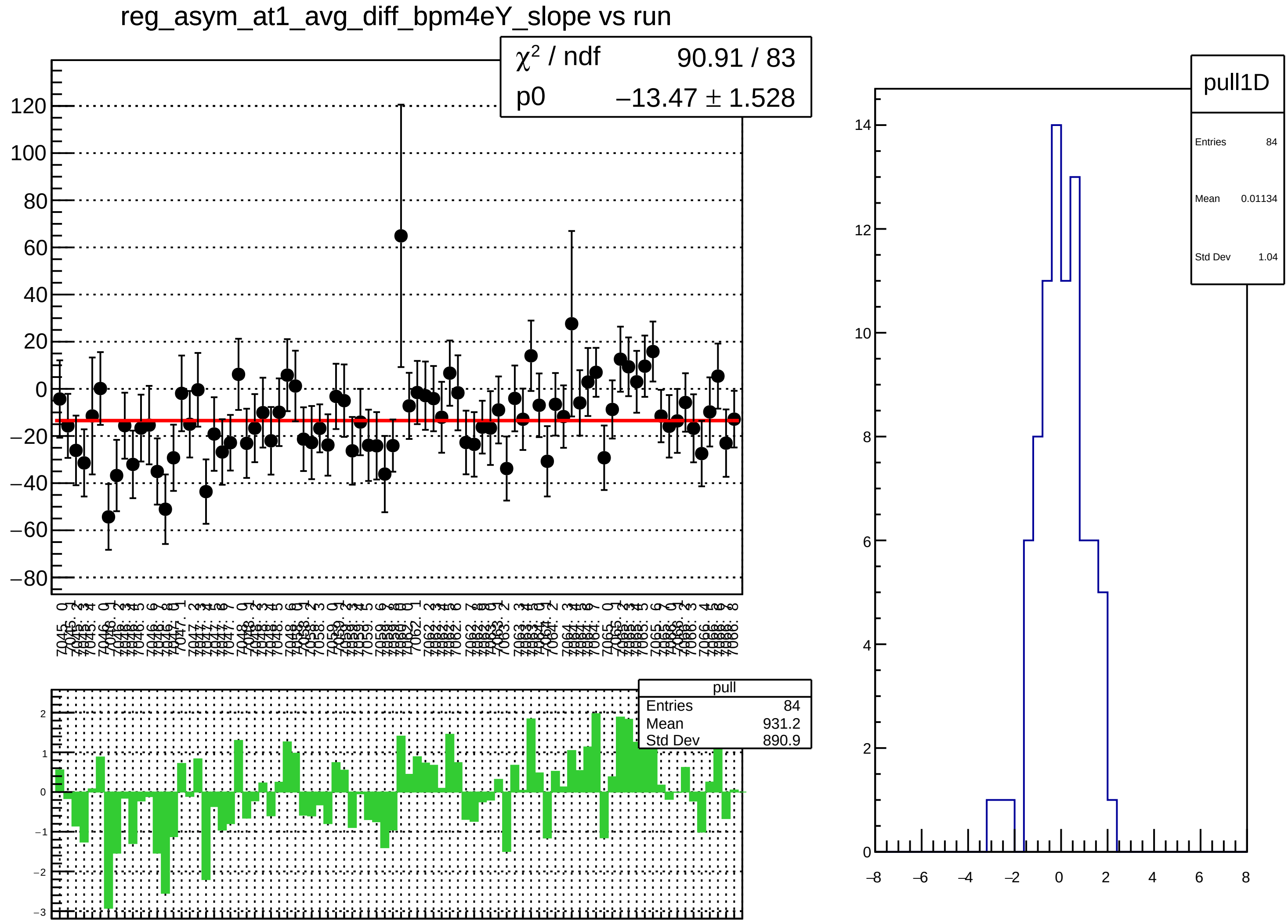
reg_asym_at1_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 89.24 / 83
p0 −27.53 ± 2.027
pull
Entries 84
Mean −233.7
Std Dev 272.5
pull1D
Entries 84
Mean −0.0341
Std Dev 1.03



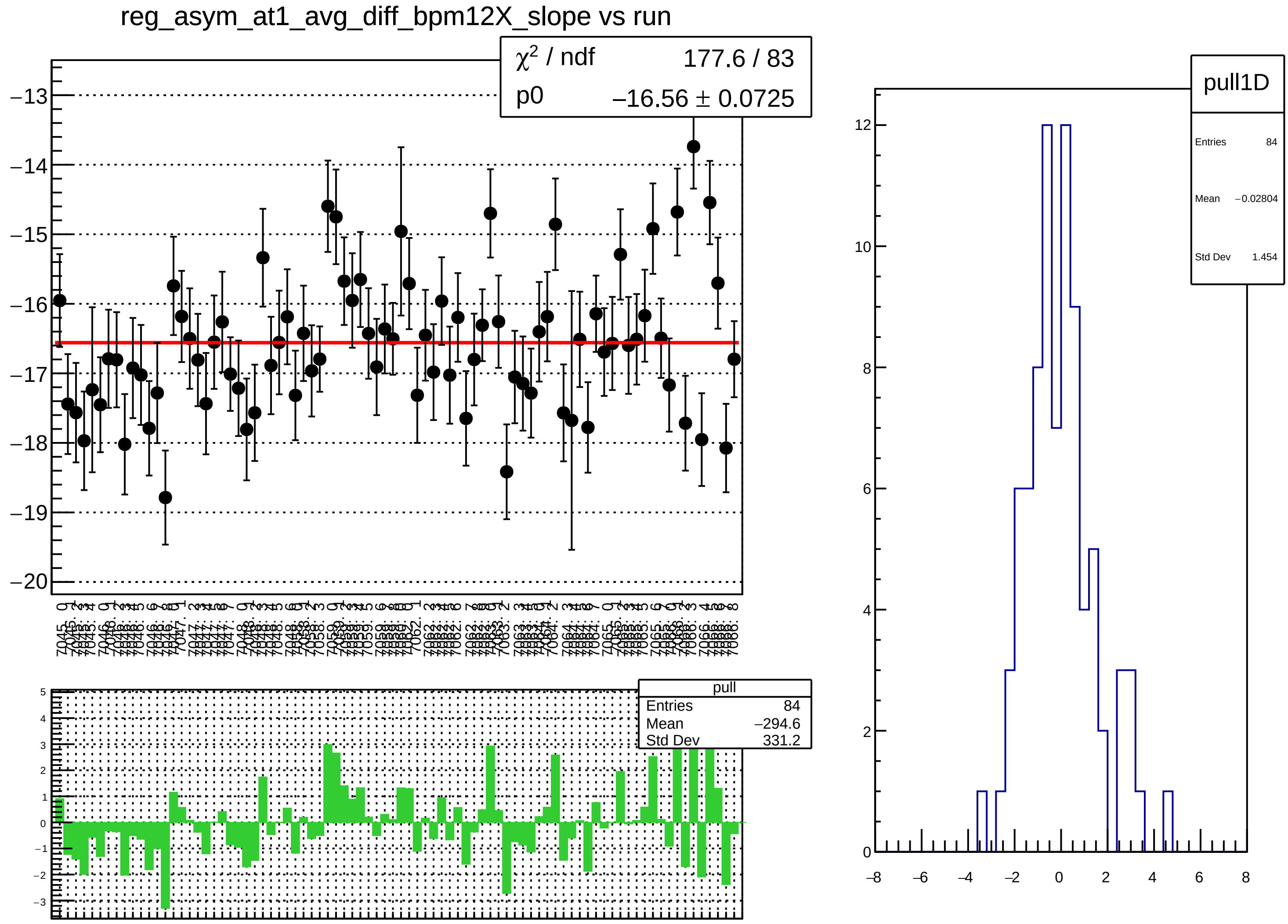
reg_asym_at1_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 83.72 / 83
p0 6.694 ± 1.433
pull
Entries 84
Mean 371.5
Std Dev 330.7
pull1D
Entries 84
Mean −0.02142
Std Dev 0.9981



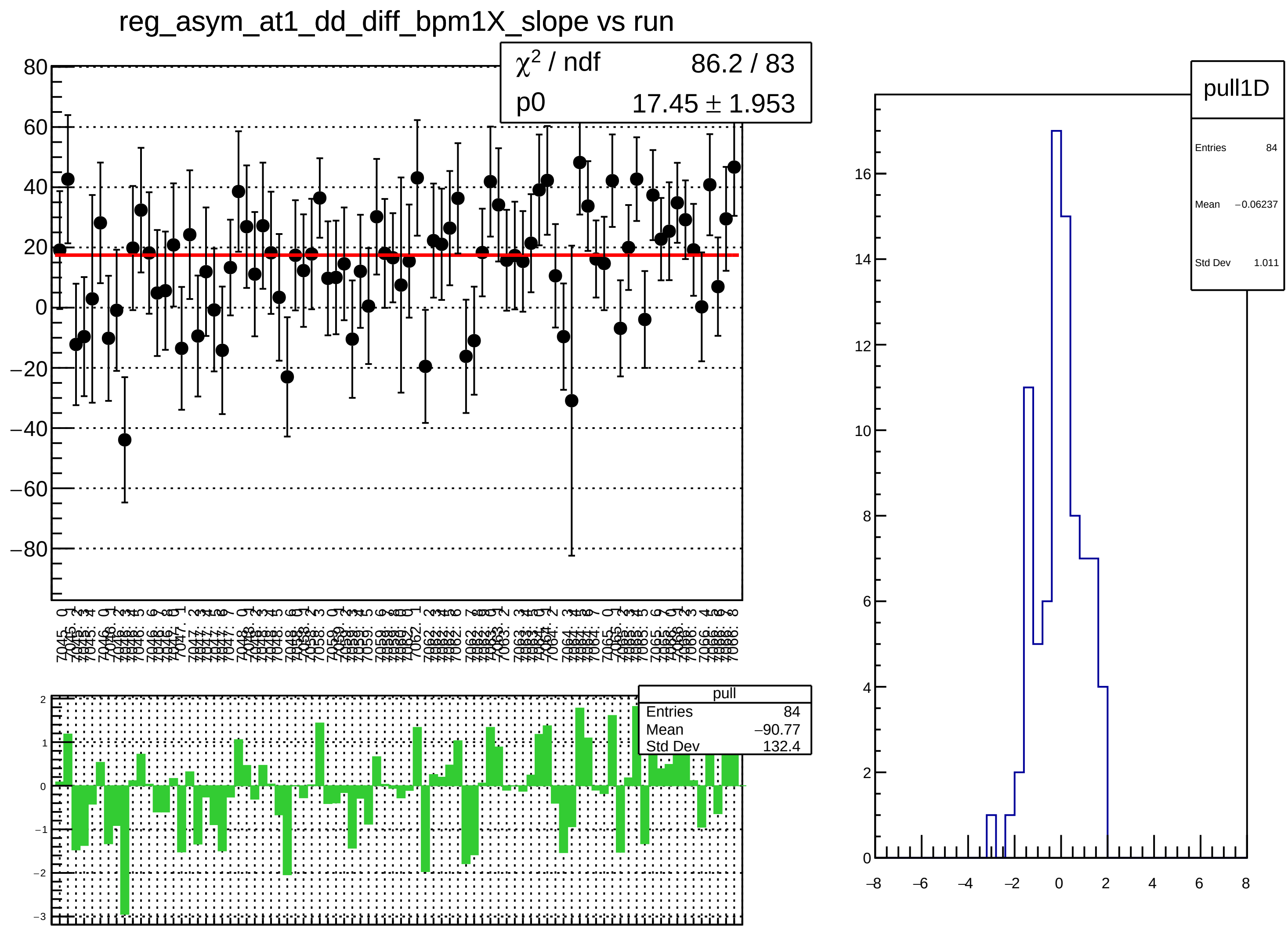
reg_asym_at1_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 86.51 / 83
p0 16.8 ± 1.939
pull
Entries 84
Mean −339.7
Std Dev 378.9
pull1D
Entries 84
Mean 0.02244
Std Dev 1.015



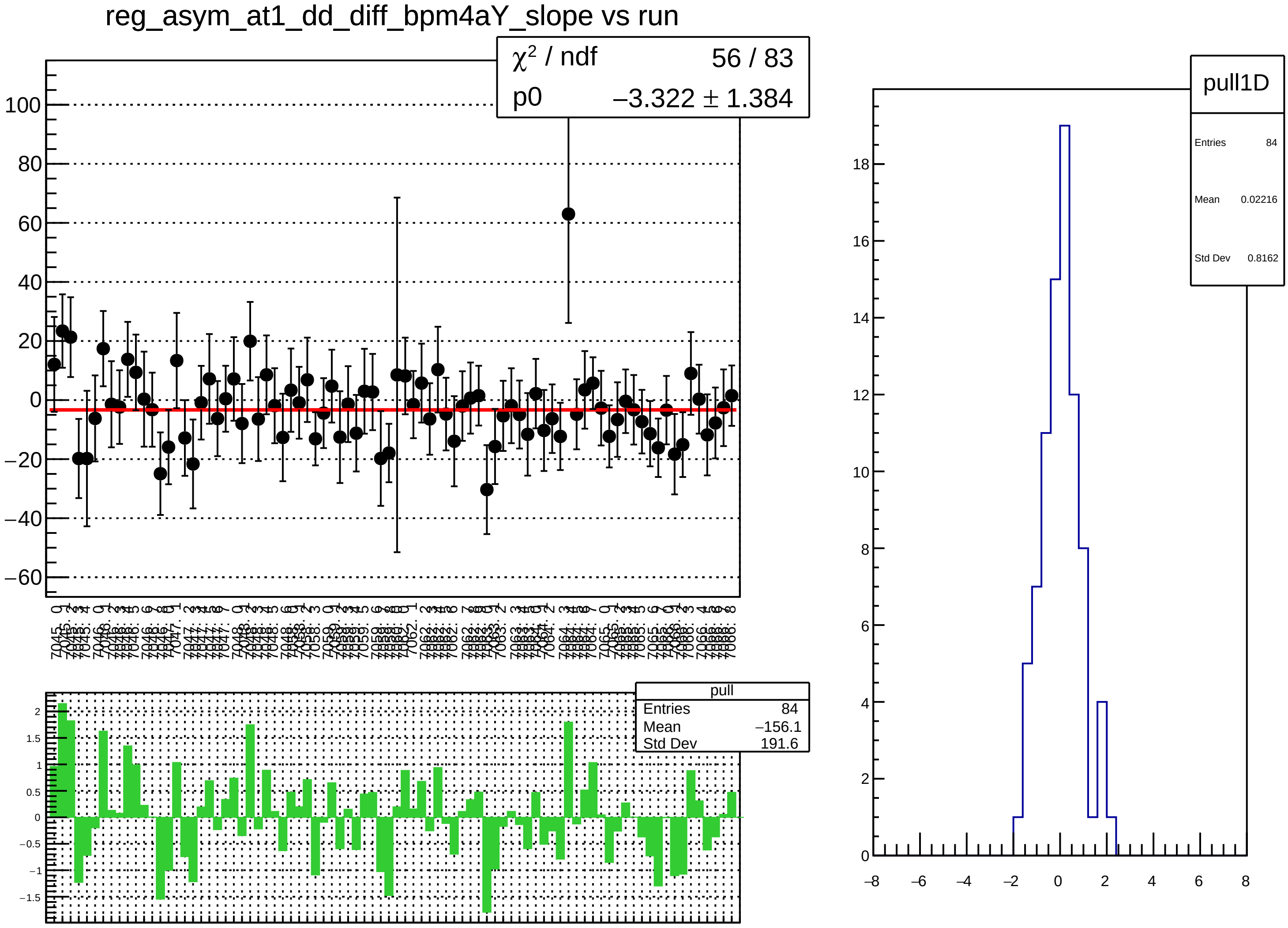
reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ2 / ndf 90.91 / 83
p0 −13.47 ± 1.528
pull
Entries 84
Mean 931.2
Std Dev 890.9
pull1D
Entries 84
Mean 0.01134
Std Dev 1.04



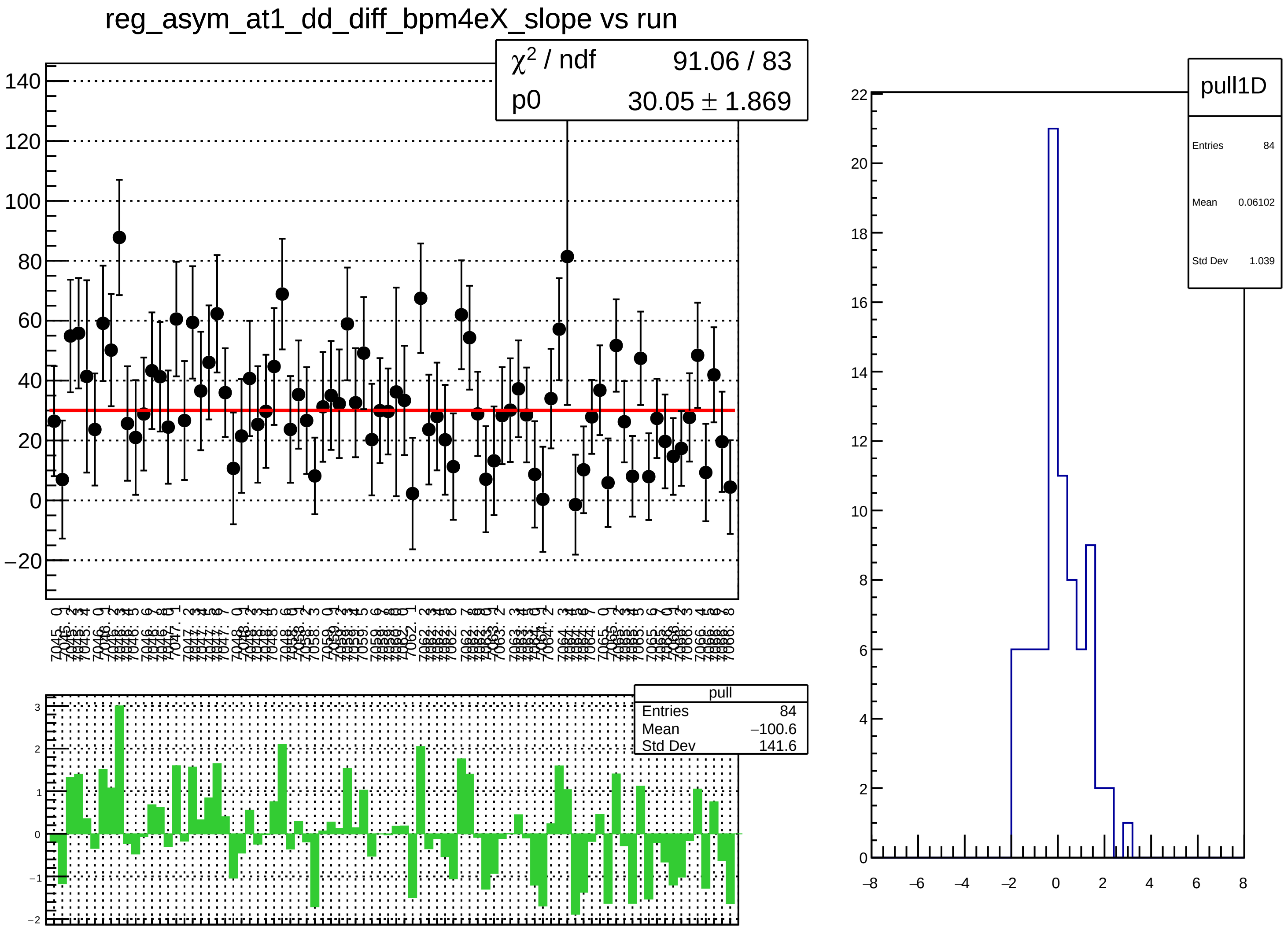
reg_asym_at1_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 177.6 / 83
p0 −16.56 ± 0.0725
pull
Entries 84
Mean −294.6
Std Dev 331.2
pull1D
Entries 84
Mean −0.02804
Std Dev 1.454



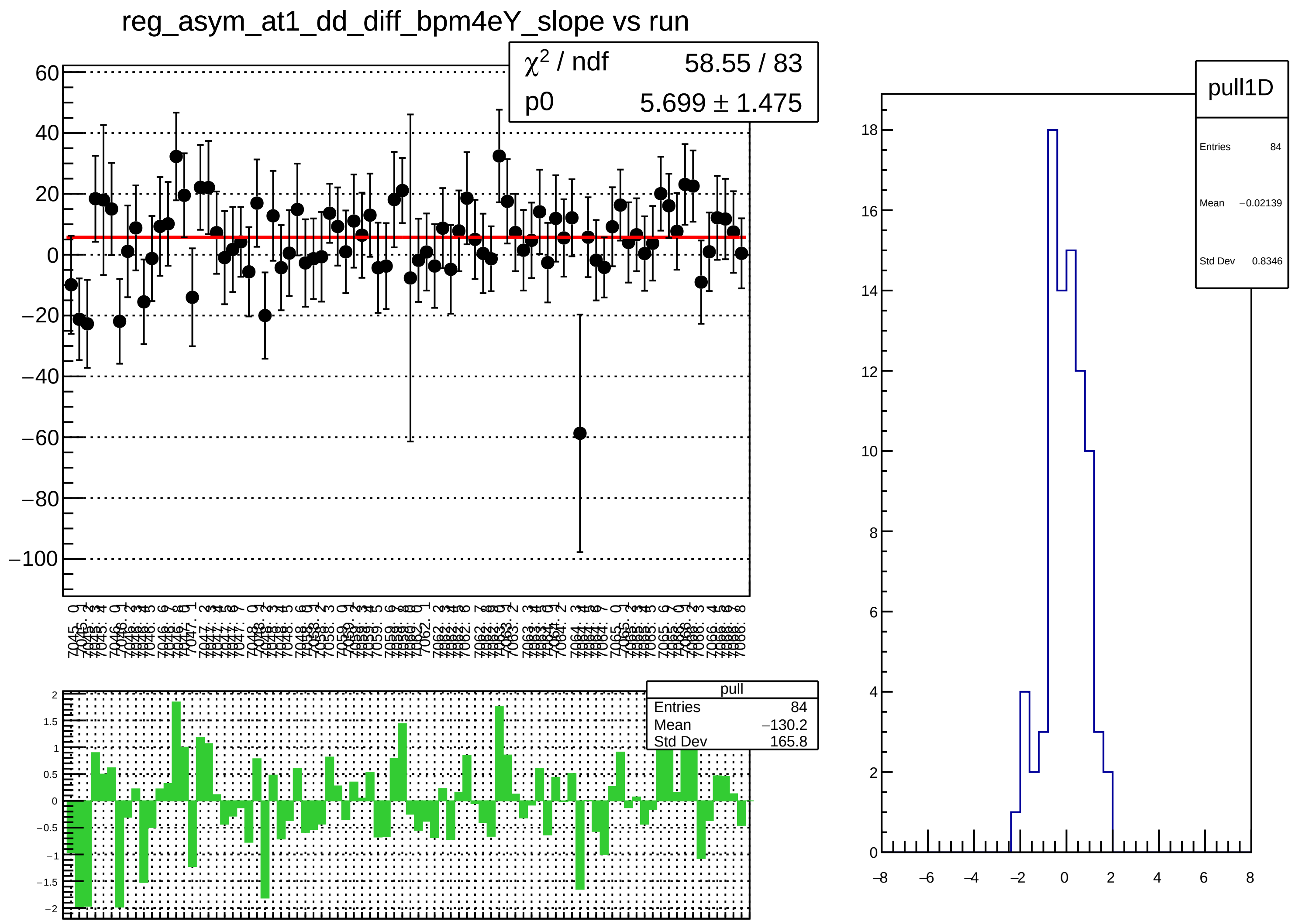
reg_asym_at1_dd_diff_bpm1X_slope vs run
χ2 / ndf 86.2 / 83
p0 17.45 ± 1.953
pull
Entries 84
Mean −90.77
Std Dev 132.4
pull1D
Entries 84
Mean −0.06237
Std Dev 1.011



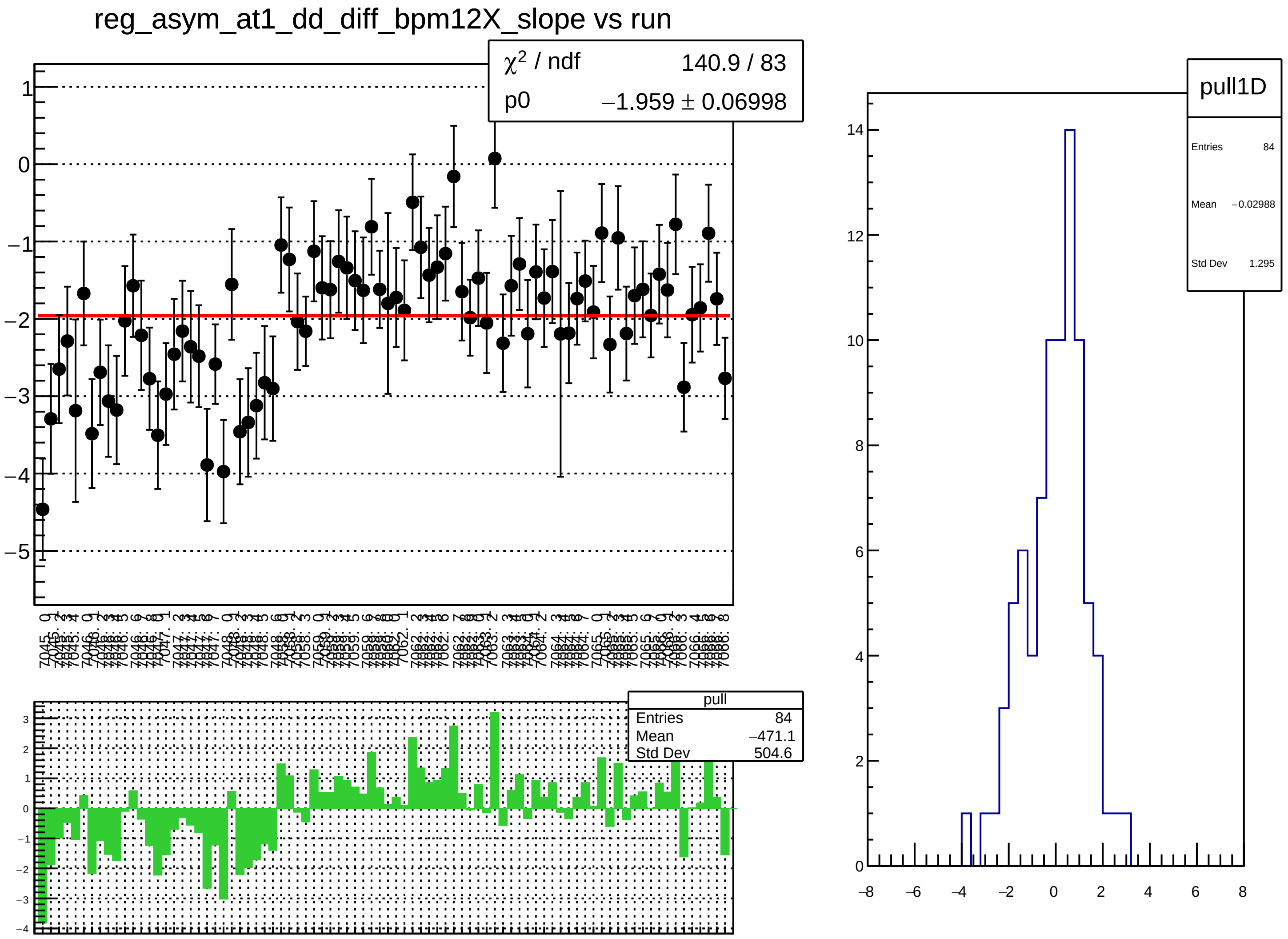
reg_asym_at1_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 56 / 83
p0 −3.322 ± 1.384
pull
Entries 84
Mean −156.1
Std Dev 191.6
pull1D
Entries 84
Mean 0.02216
Std Dev 0.8162



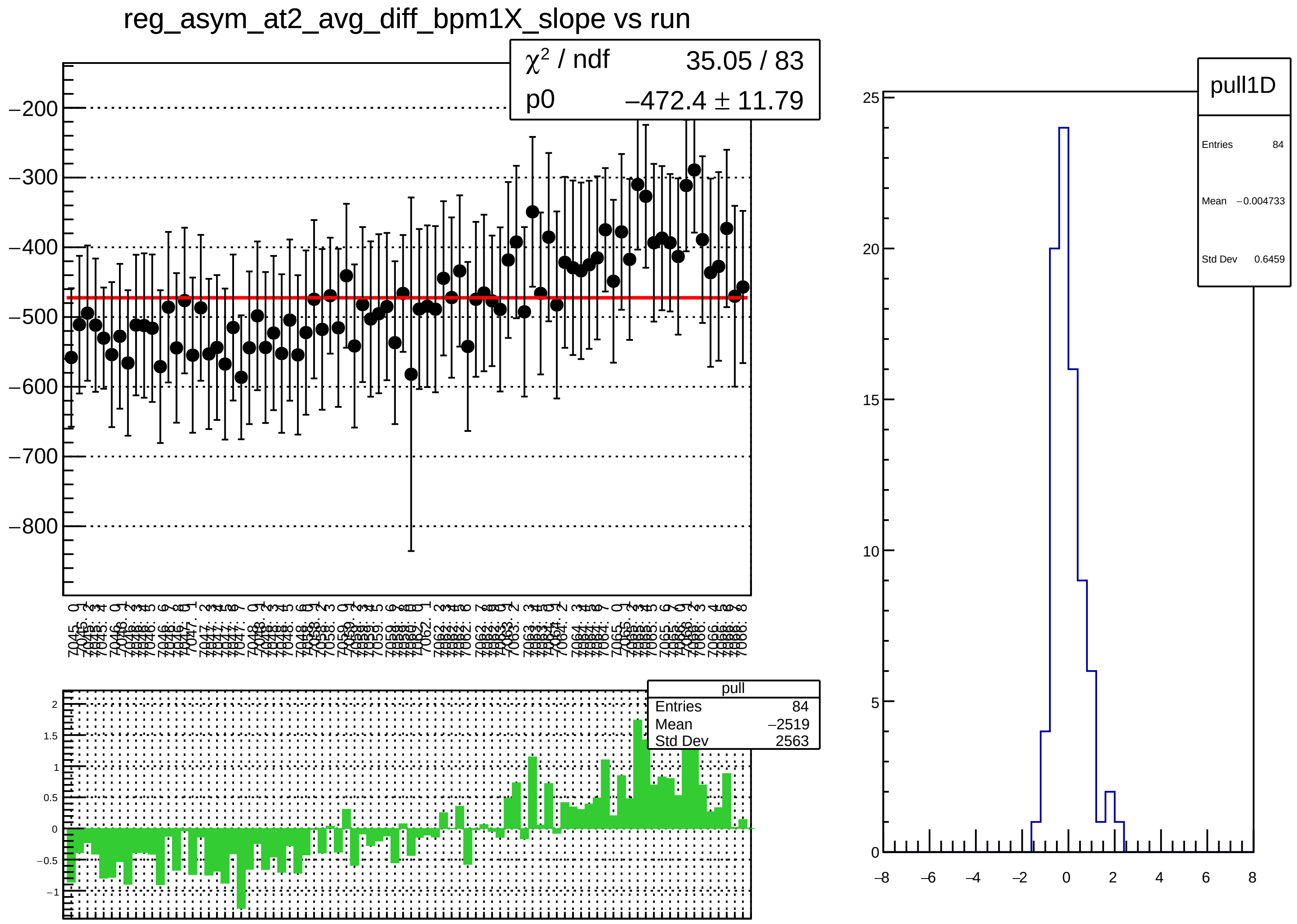
reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ2 / ndf 91.06 / 83
p0 30.05 ± 1.869
pull
Entries 84
Mean −100.6
Std Dev 141.6
pull1D
Entries 84
Mean 0.06102
Std Dev 1.039



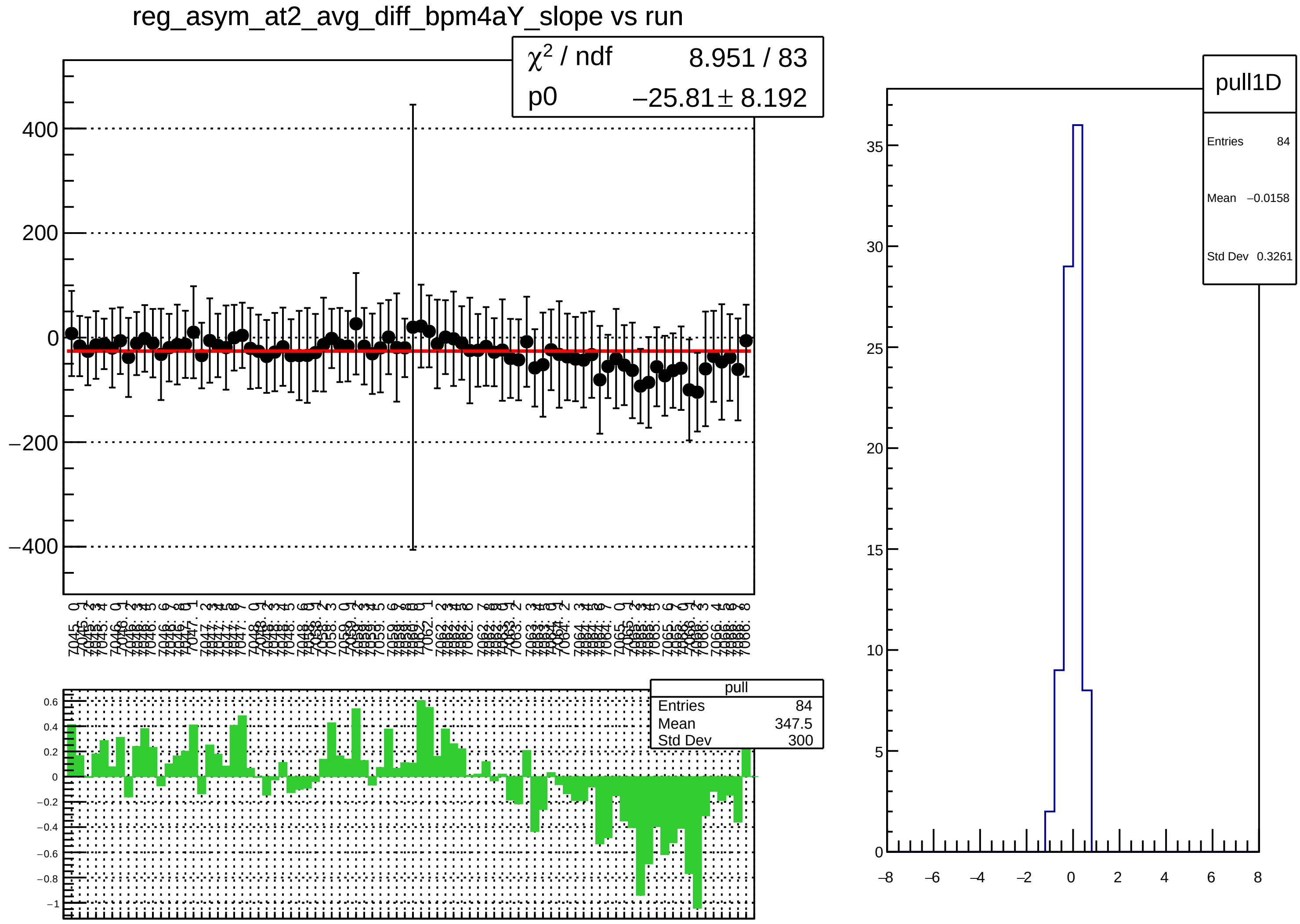
reg_asym_at1_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 58.55 / 83
p0 5.699 ± 1.475
pull
Entries 84
Mean −130.2
Std Dev 165.8
pull1D
Entries 84
Mean −0.02139
Std Dev 0.8346

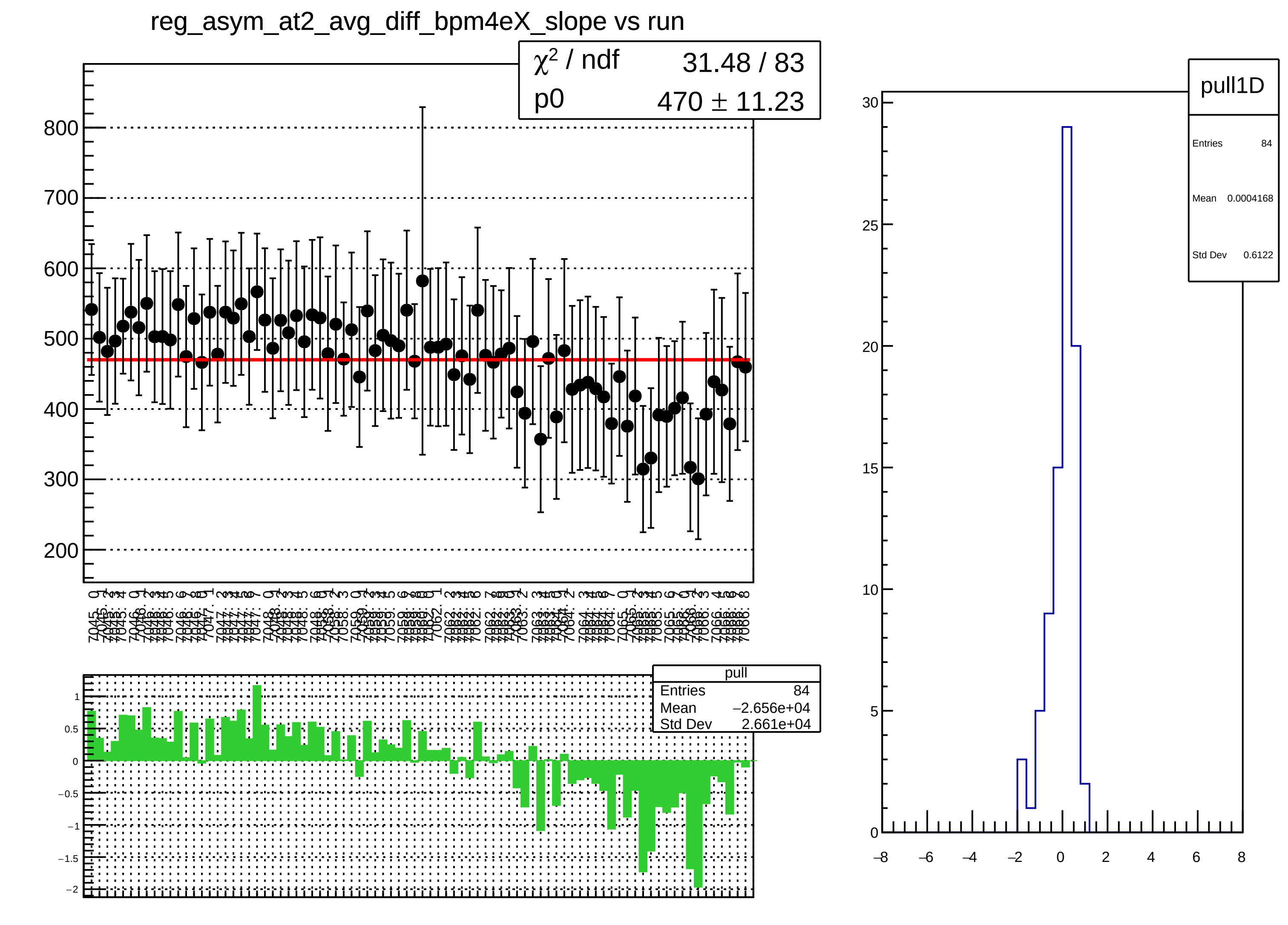


reg_asym_at1_dd_diff_bpm12X_slope vs run
χ2 / ndf 140.9 / 83
p0 −1.959 ± 0.06998
pull
Entries 84
Mean −471.1
Std Dev 504.6
pull1D
Entries 84
Mean −0.02988
Std Dev 1.295

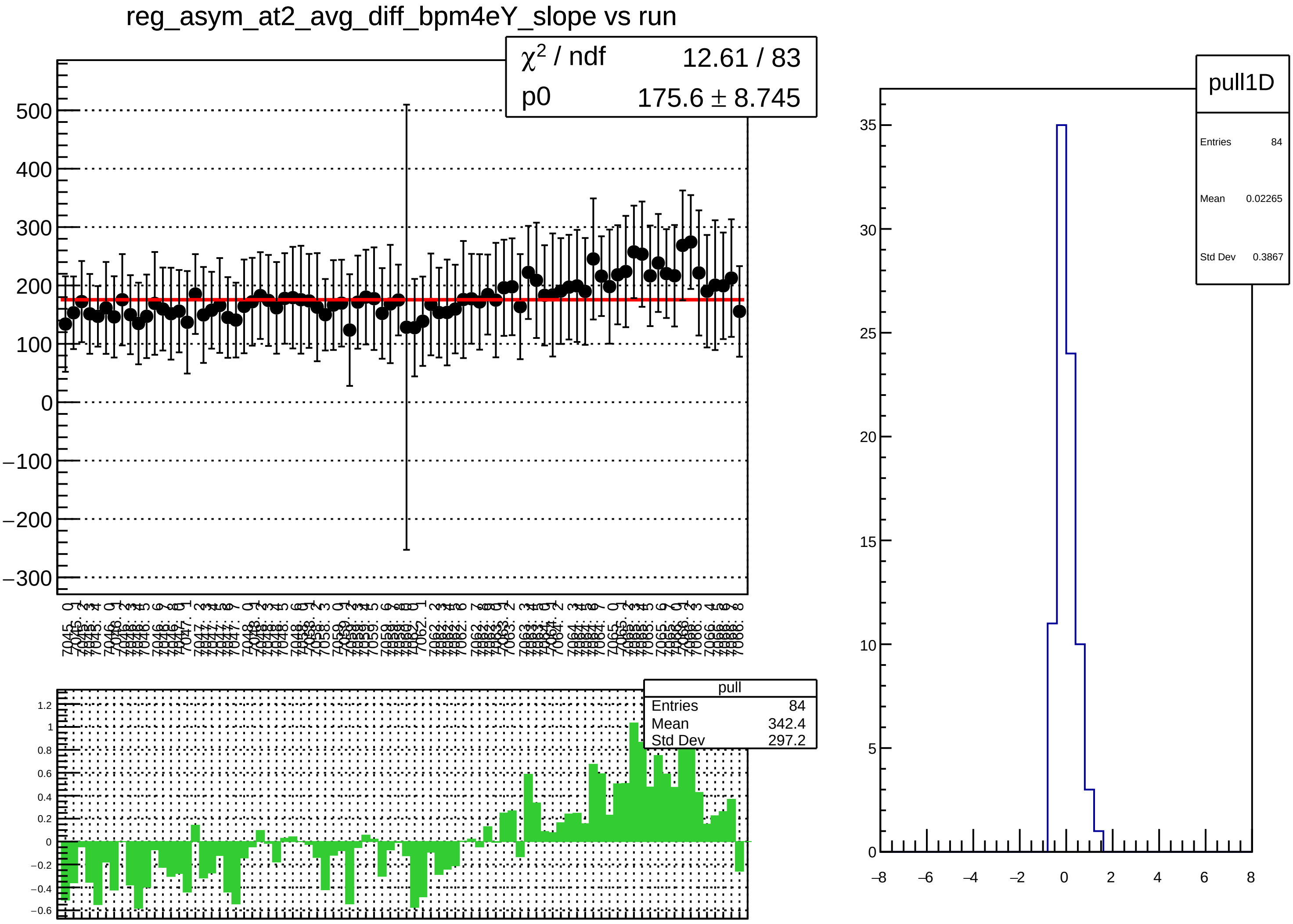


reg_asym_at2_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 35.05 / 83
p0 −472.4 ± 11.79
−200
−300
−400
−500
−600
−700
−800
pull
Entries 84
Mean −2519
Std Dev 2563
pull1D
Entries 84
Mean −0.004733
Std Dev 0.6459

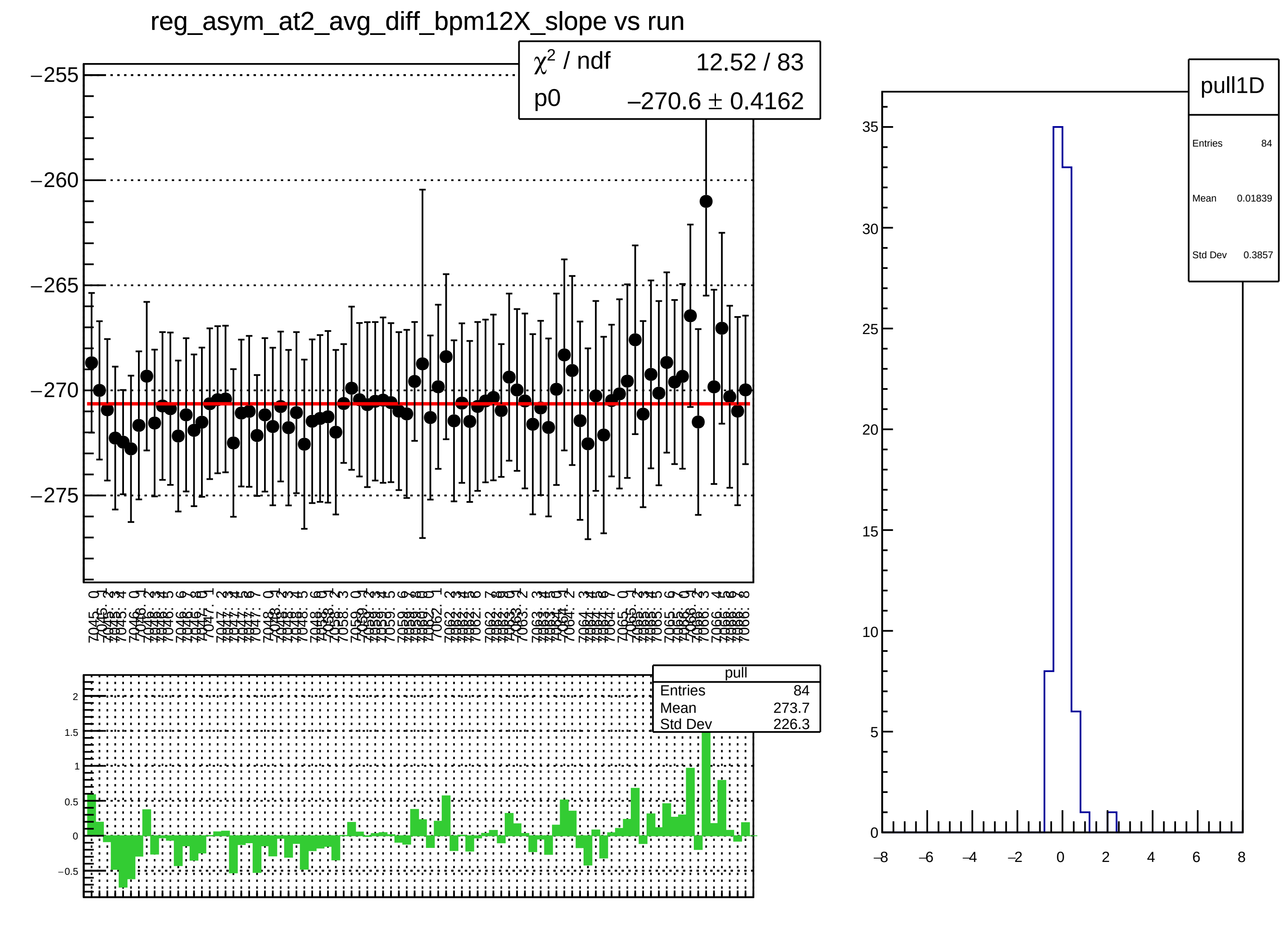

reg_asym_at2_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 8.951 / 83
p0 −25.81 ± 8.192
pull
Entries 84
Mean 347.5
Std Dev 300
pull1D
Entries 84
Mean −0.0158
Std Dev 0.3261



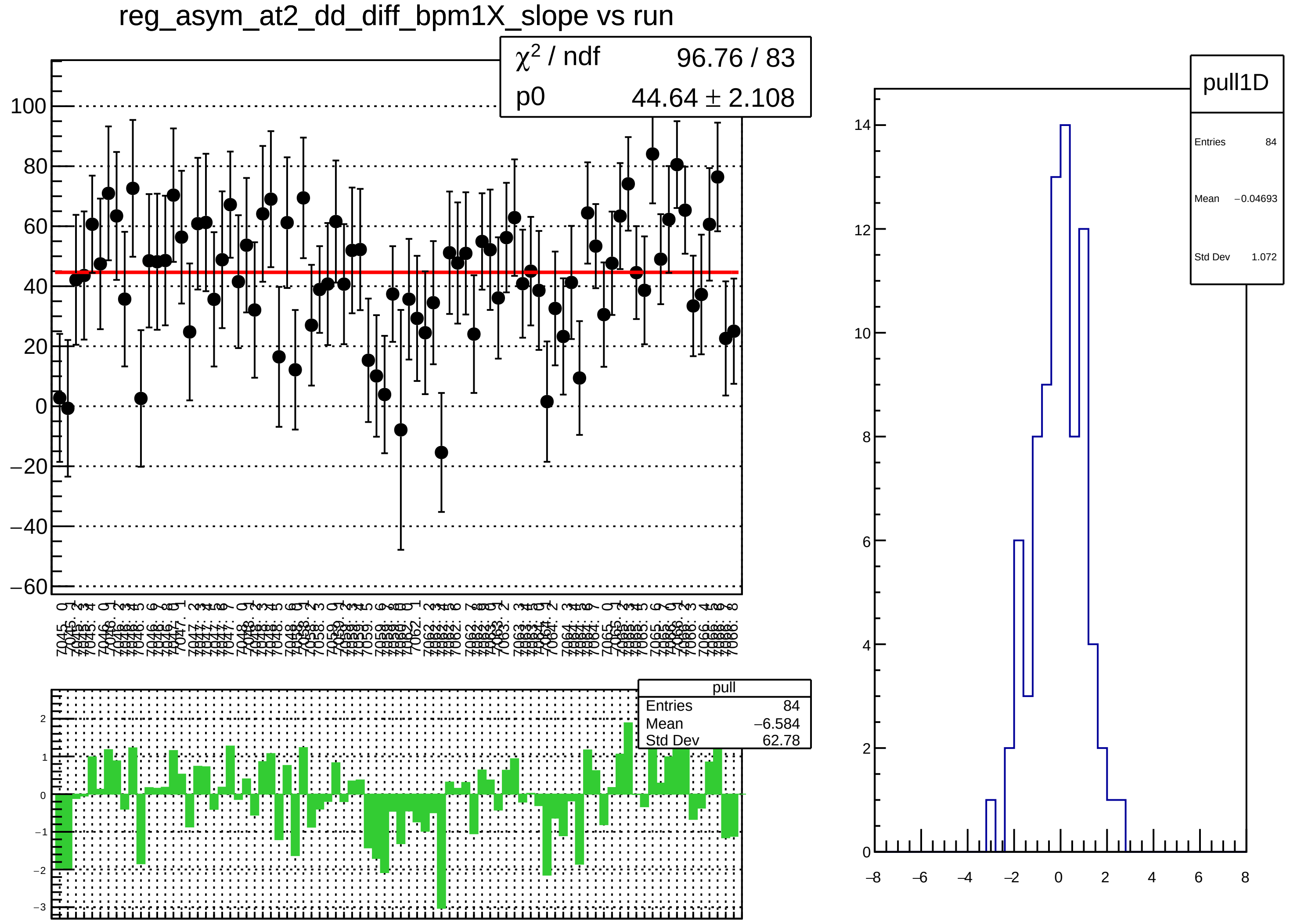
reg_asym_at2_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 31.48 / 83
p0 470 ± 11.23
800
700
600
500
400
300
200
pull
Entries 84
Mean −2.656e+04
Std Dev 2.661e+04
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.0004168
Std Dev 0.6122
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



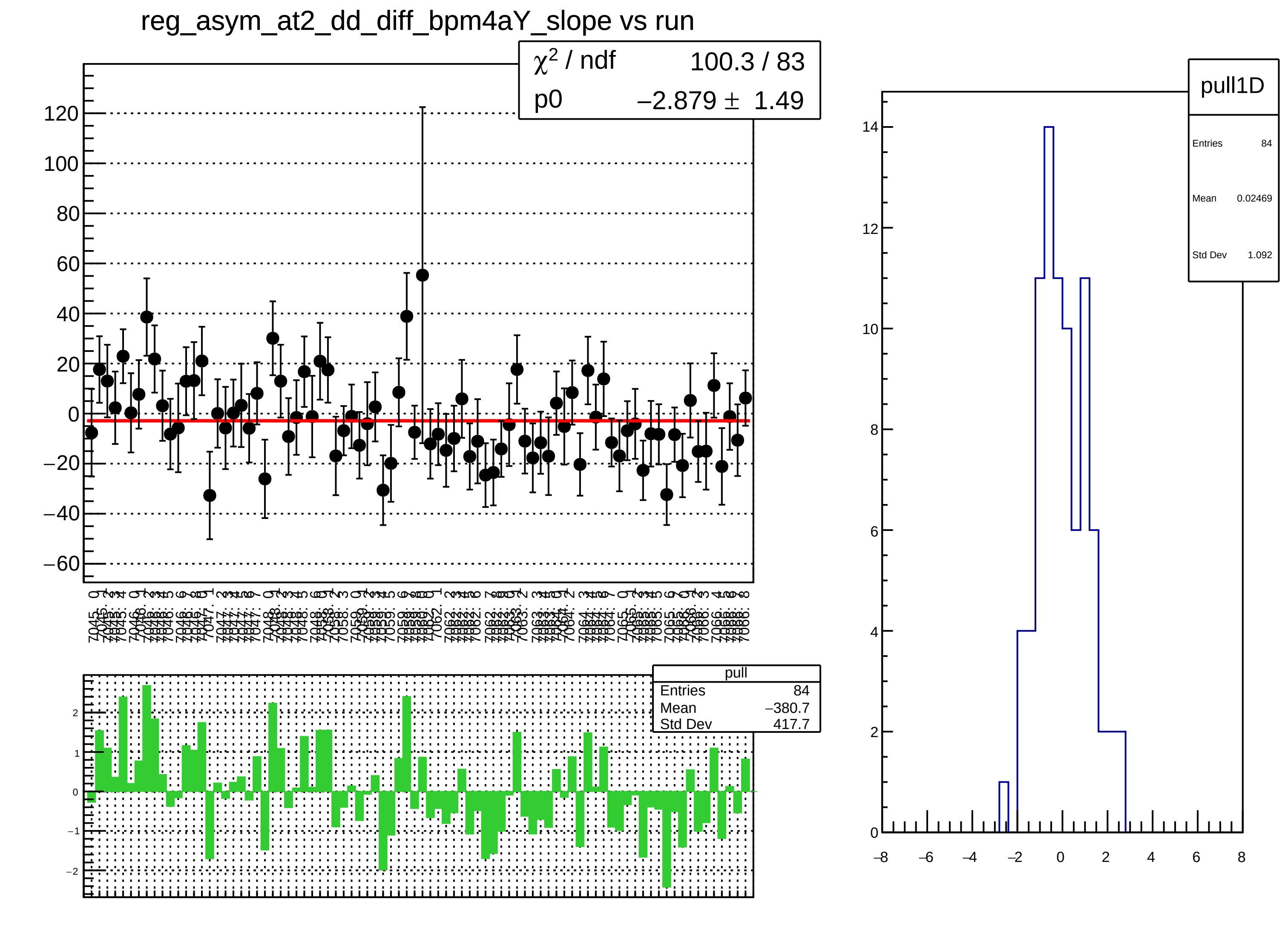
reg_asym_at2_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 12.61 / 83
p0 175.6 ± 8.745
pull
Entries 84
Mean 342.4
Std Dev 297.2
pull1D
Entries 84
Mean 0.02265
Std Dev 0.3867



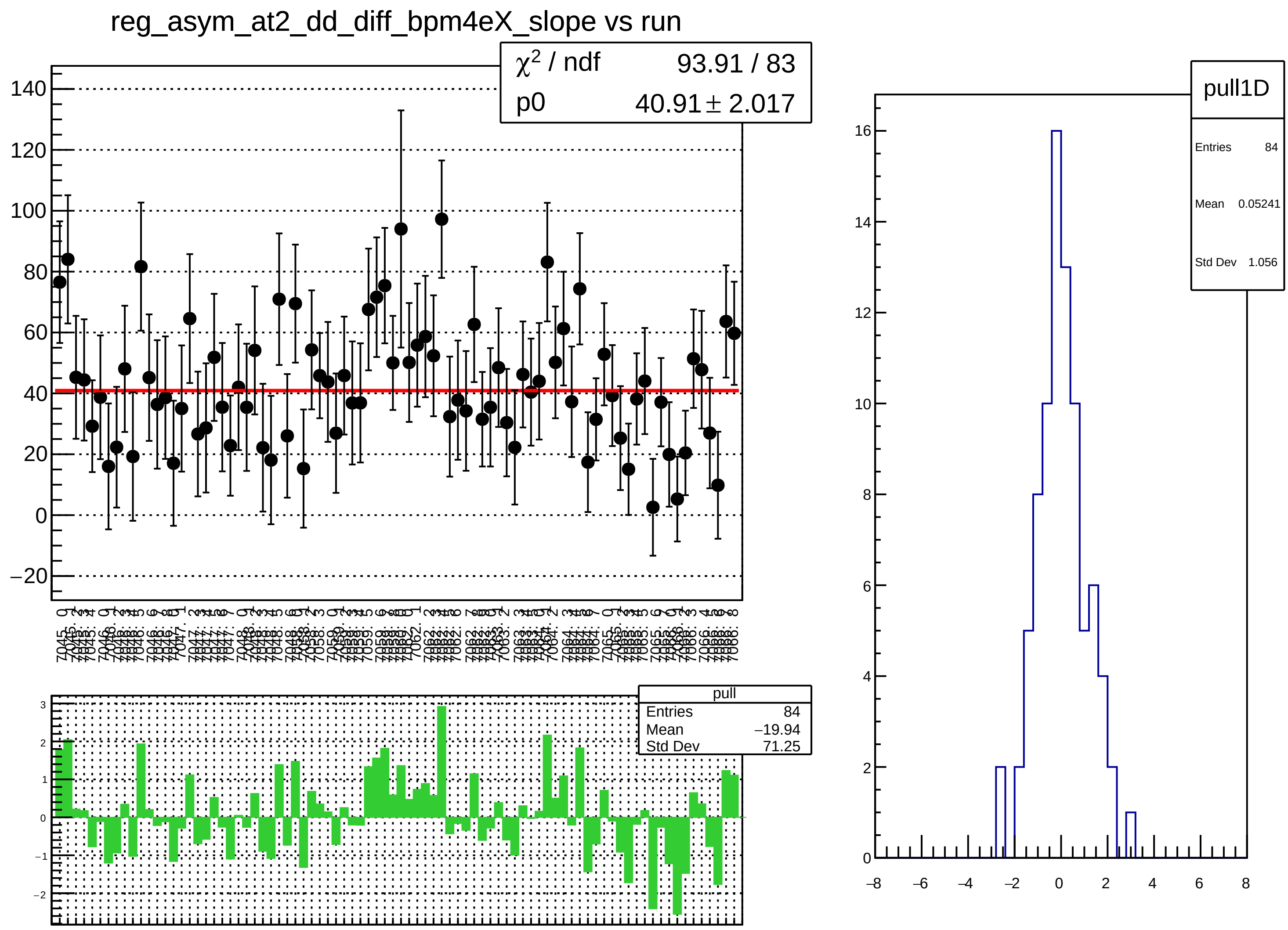
reg_asym_at2_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 12.52 / 83
p0 −270.6 ± 0.4162
−255
−260
−265
−270
−275
pull
Entries 84
Mean 273.7
Std Dev 226.3
pull1D
Entries 84
Mean 0.01839
Std Dev 0.3857



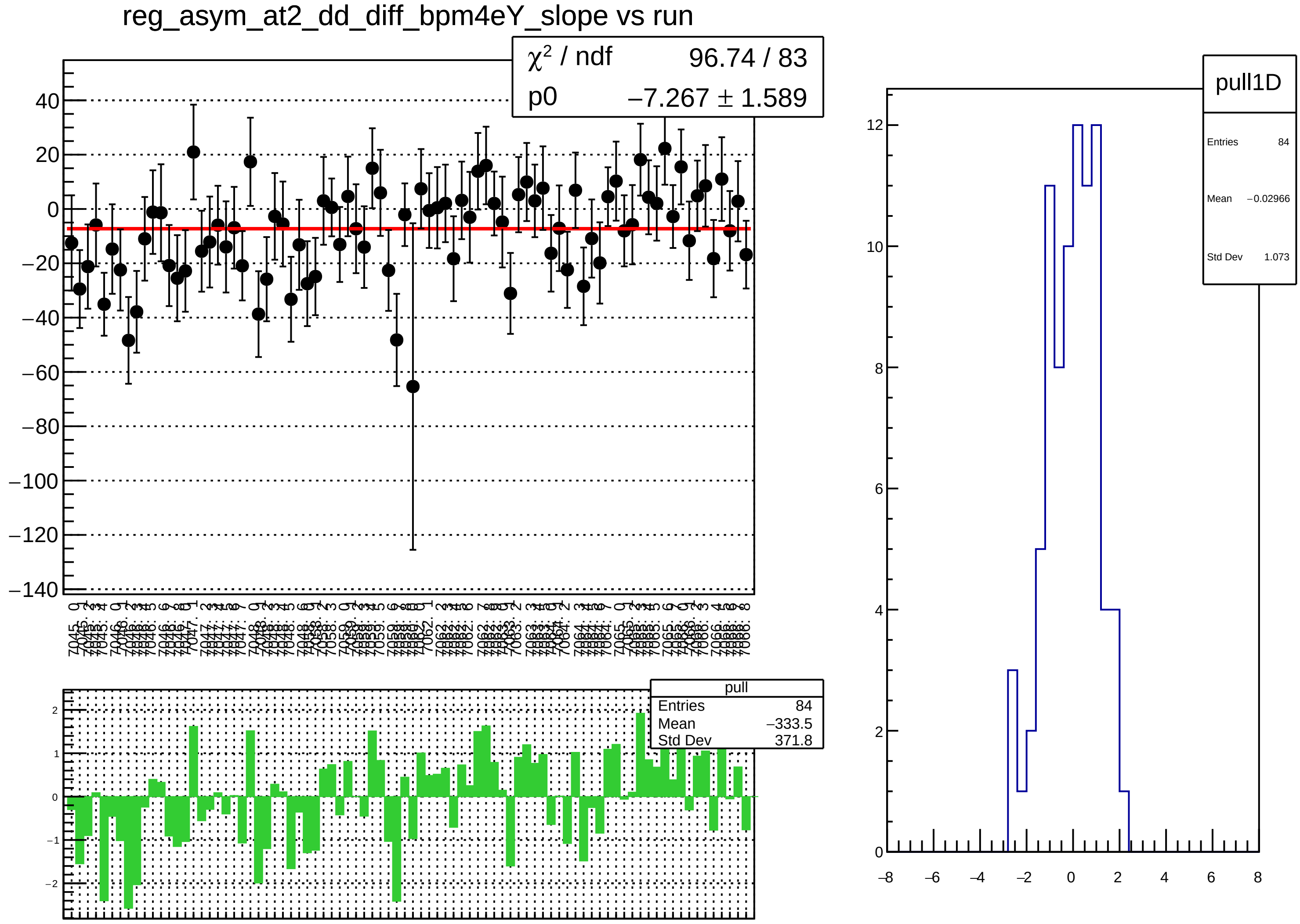
reg_asym_at2_dd_diff_bpm1X_slope vs run
χ2 / ndf 96.76 / 83
p0 44.64 ± 2.108
pull
Entries 84
Mean −6.584
Std Dev 62.78
pull1D
Entries 84
Mean −0.04693
Std Dev 1.072



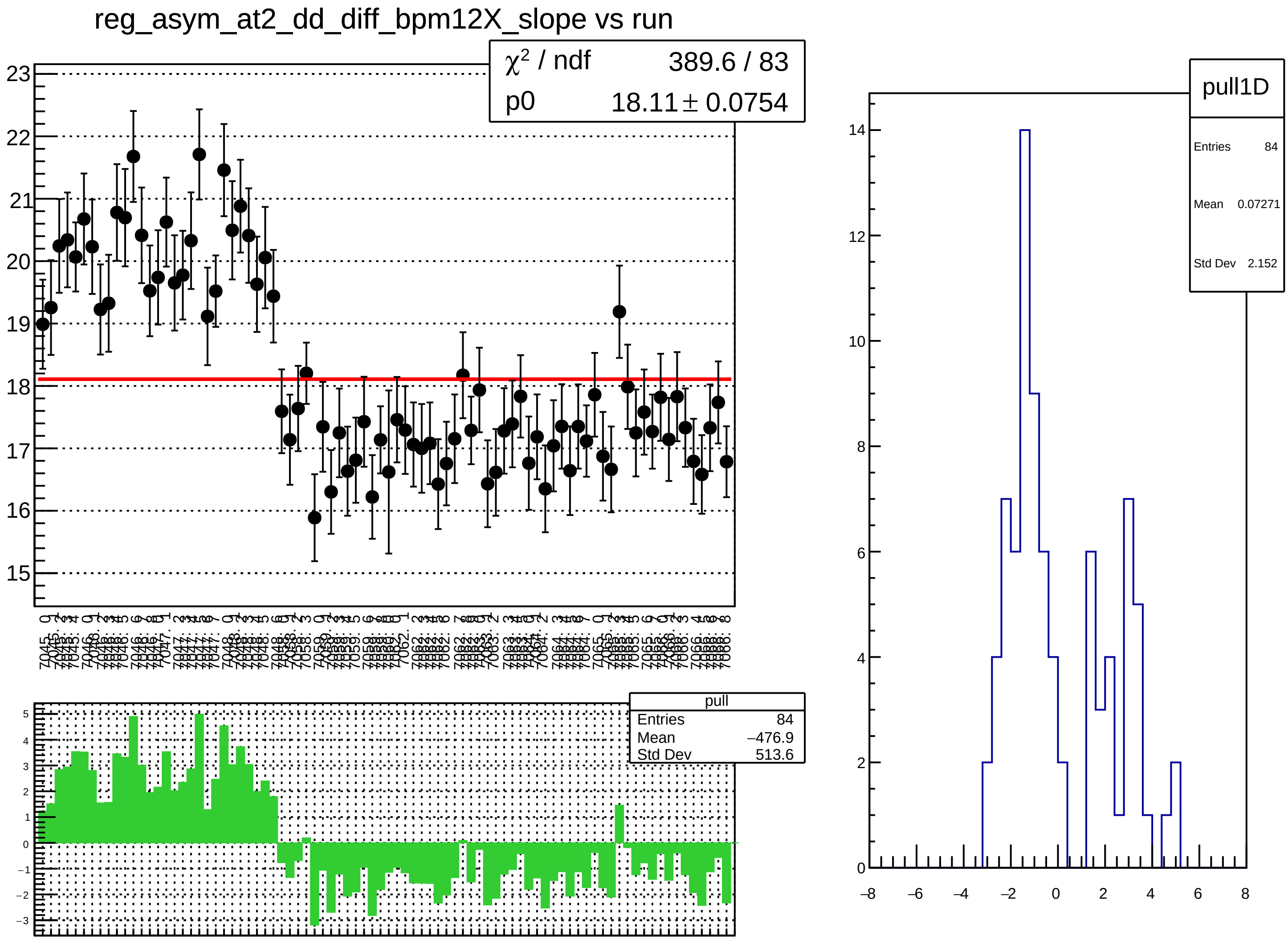
reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ2 / ndf 100.3 / 83
p0 −2.879 ± 1.49
pull
Entries 84
Mean −380.7
Std Dev 417.7
pull1D
Entries 84
Mean 0.02469
Std Dev 1.092



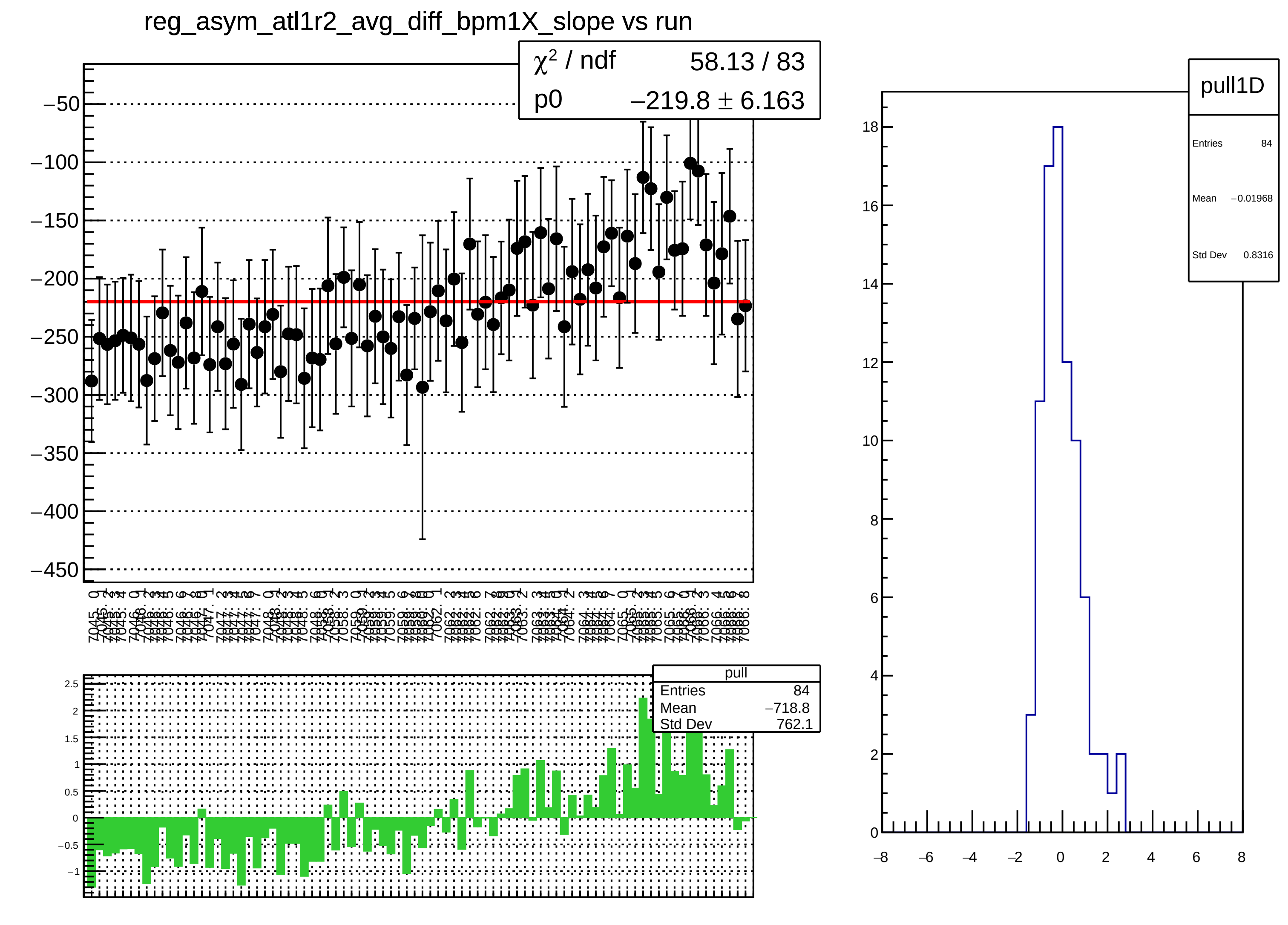
reg_asym_at2_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 93.91 / 83
p0 40.91 ± 2.017
pull
Entries 84
Mean −19.94
Std Dev 71.25
pull1D
Entries 84
Mean 0.05241
Std Dev 1.056



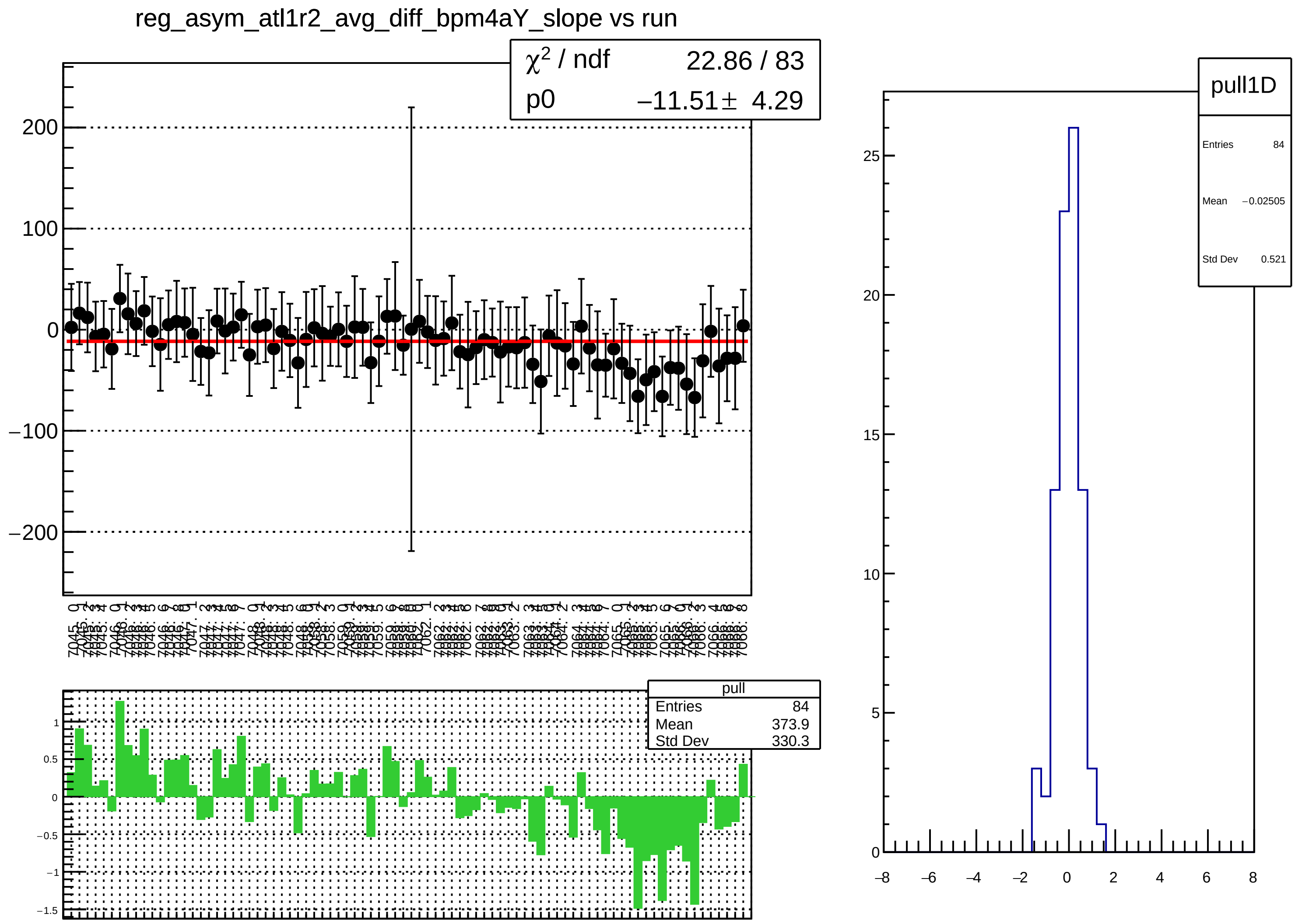
reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ2 / ndf 96.74 / 83
p0 −7.267 ± 1.589
pull
Entries 84
Mean −333.5
Std Dev 371.8
pull1D
Entries 84
Mean −0.02966
Std Dev 1.073

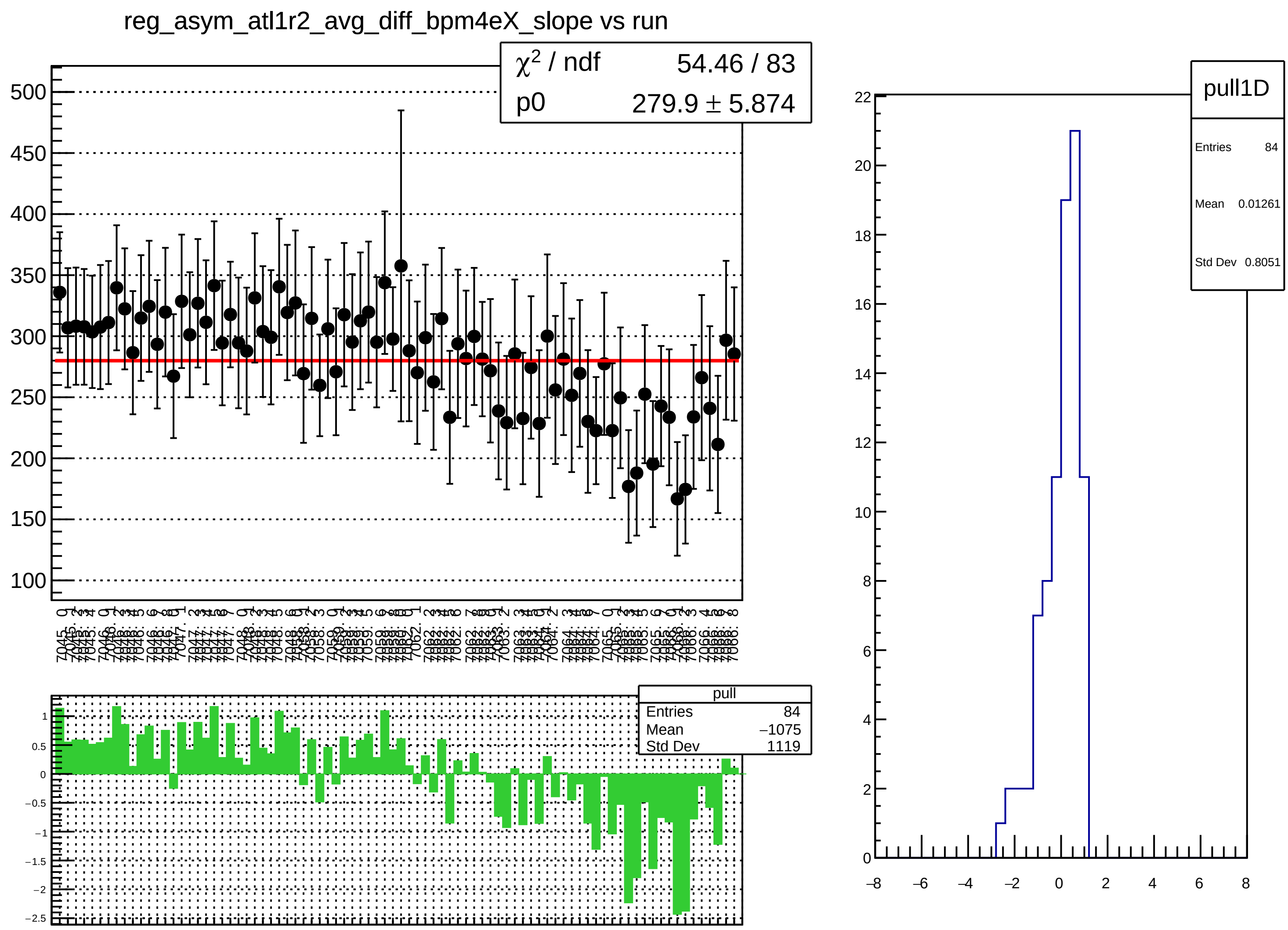


reg_asym_at2_dd_diff_bpm12X_slope vs run
χ2 / ndf 389.6 / 83
p0 18.11 ± 0.0754
pull
Entries 84
Mean −476.9
Std Dev 513.6
pull1D
Entries 84
Mean 0.07271
Std Dev 2.152

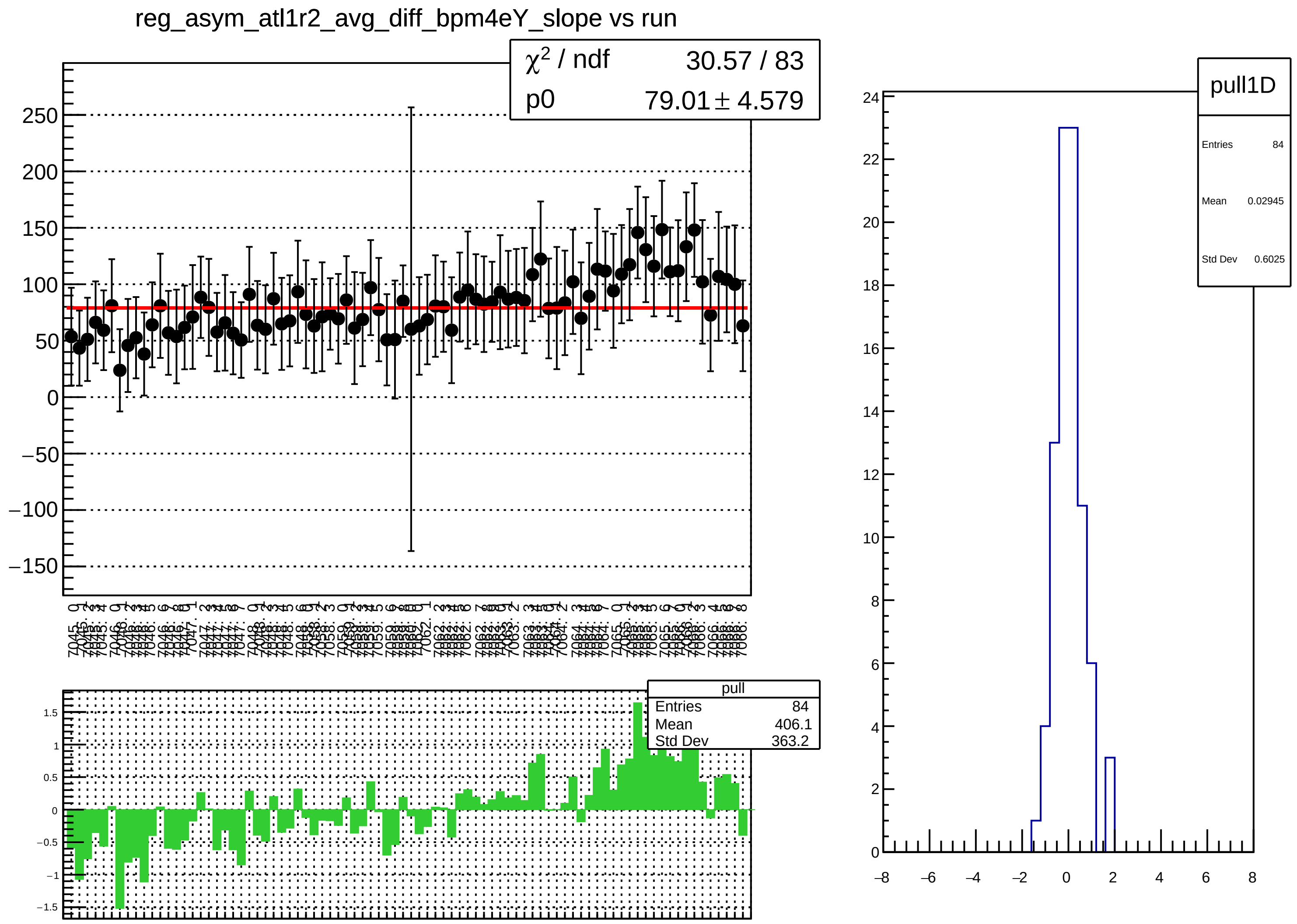


reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ2 / ndf 58.13 / 83
p0 −219.8 ± 6.163
pull
Entries 84
Mean −718.8
Std Dev 762.1
pull1D
Entries 84
Mean −0.01968
Std Dev 0.8316


reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ2 / ndf 22.86 / 83
p0 −11.51 ± 4.29
pull
Entries 84
Mean 373.9
Std Dev 330.3
pull1D
Entries 84
Mean −0.02505
Std Dev 0.521

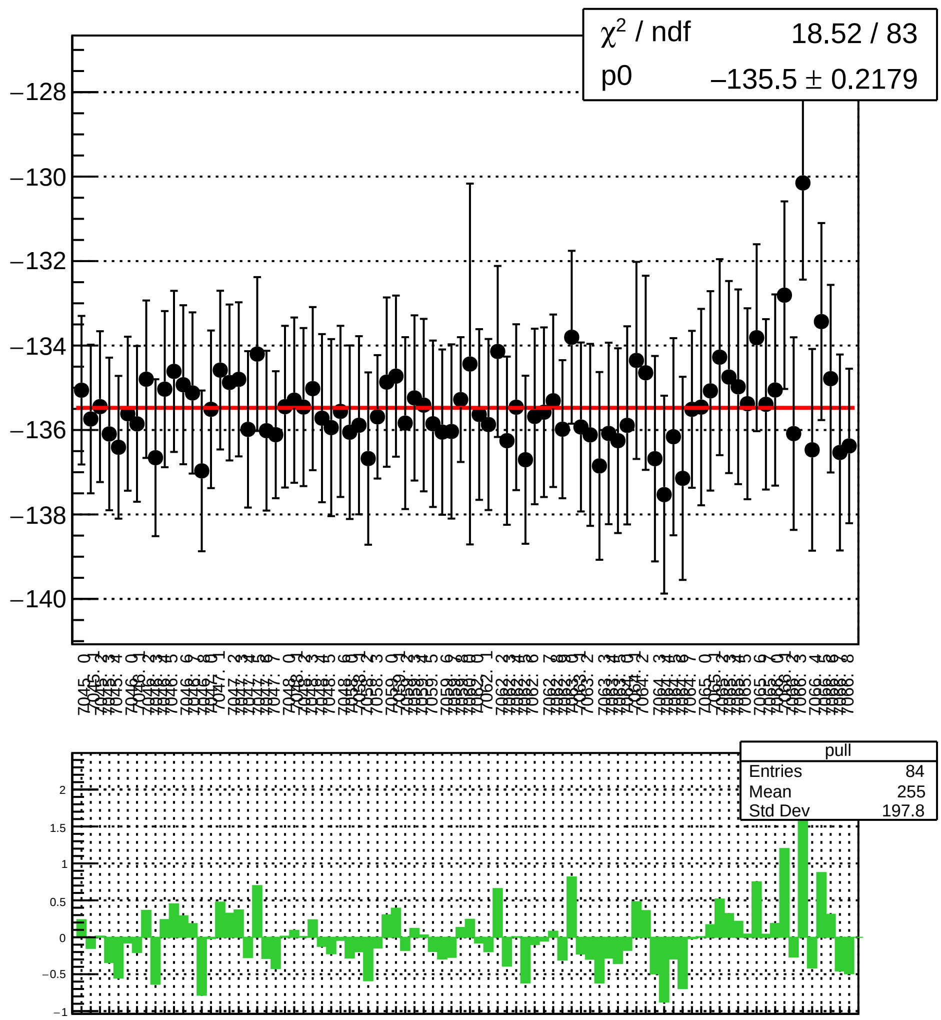


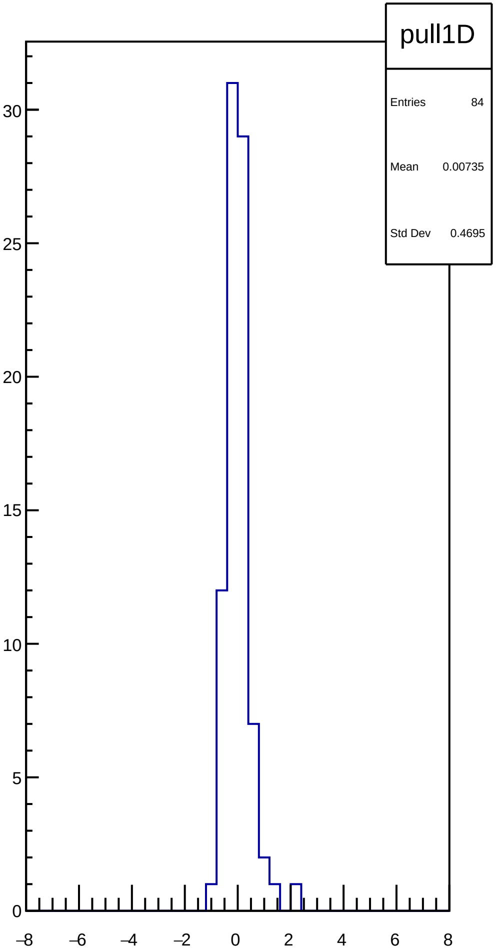
reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ2 / ndf 54.46 / 83
p0 279.9 ± 5.874
pull
Entries 84
Mean −1075
Std Dev 1119
pull1D
Entries 84
Mean 0.01261
Std Dev 0.8051

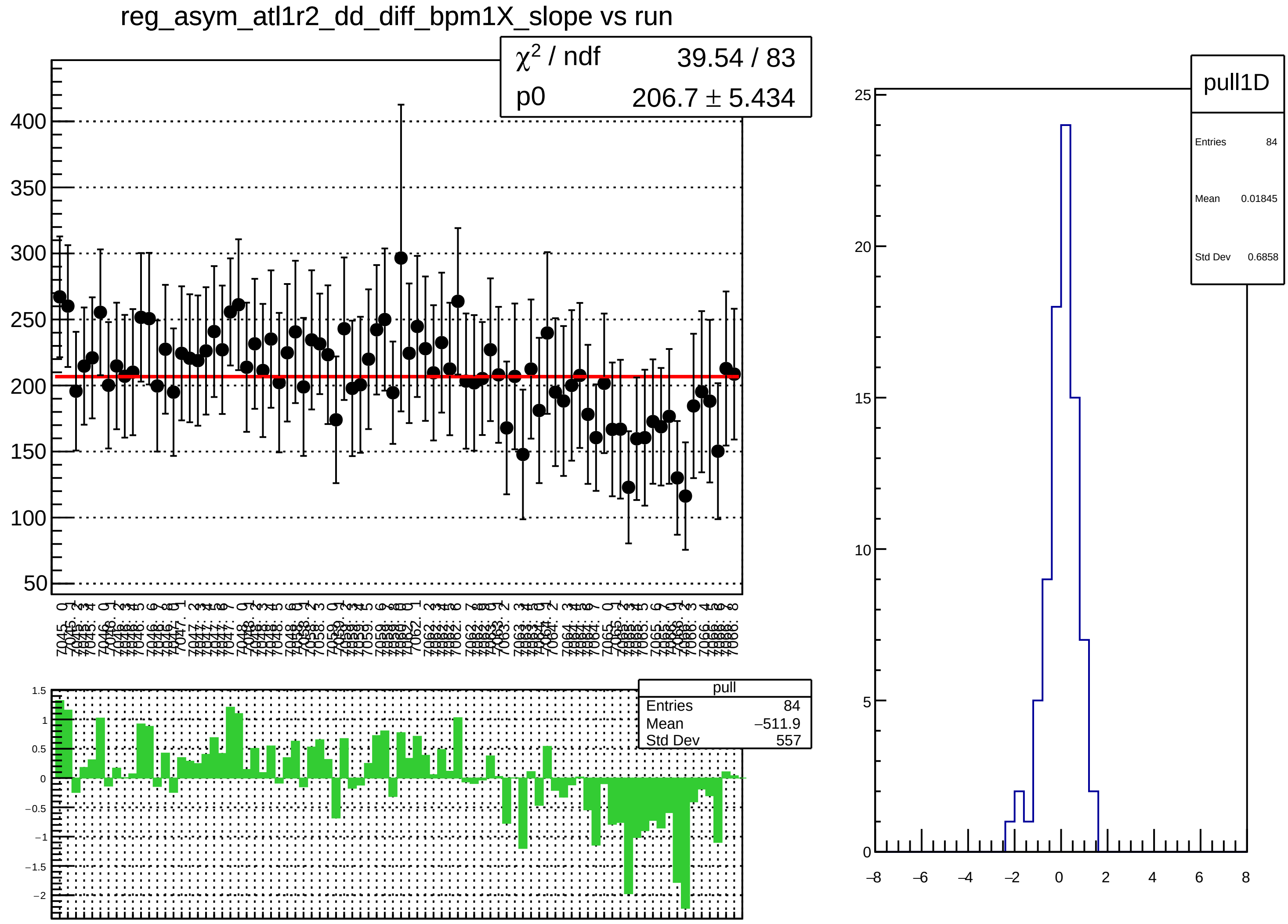


reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 30.57 / 83
p0 79.01 ± 4.579
pull
Entries 84
Mean 406.1
Std Dev 363.2
pull1D
Entries 84
Mean 0.02945
Std Dev 0.6025

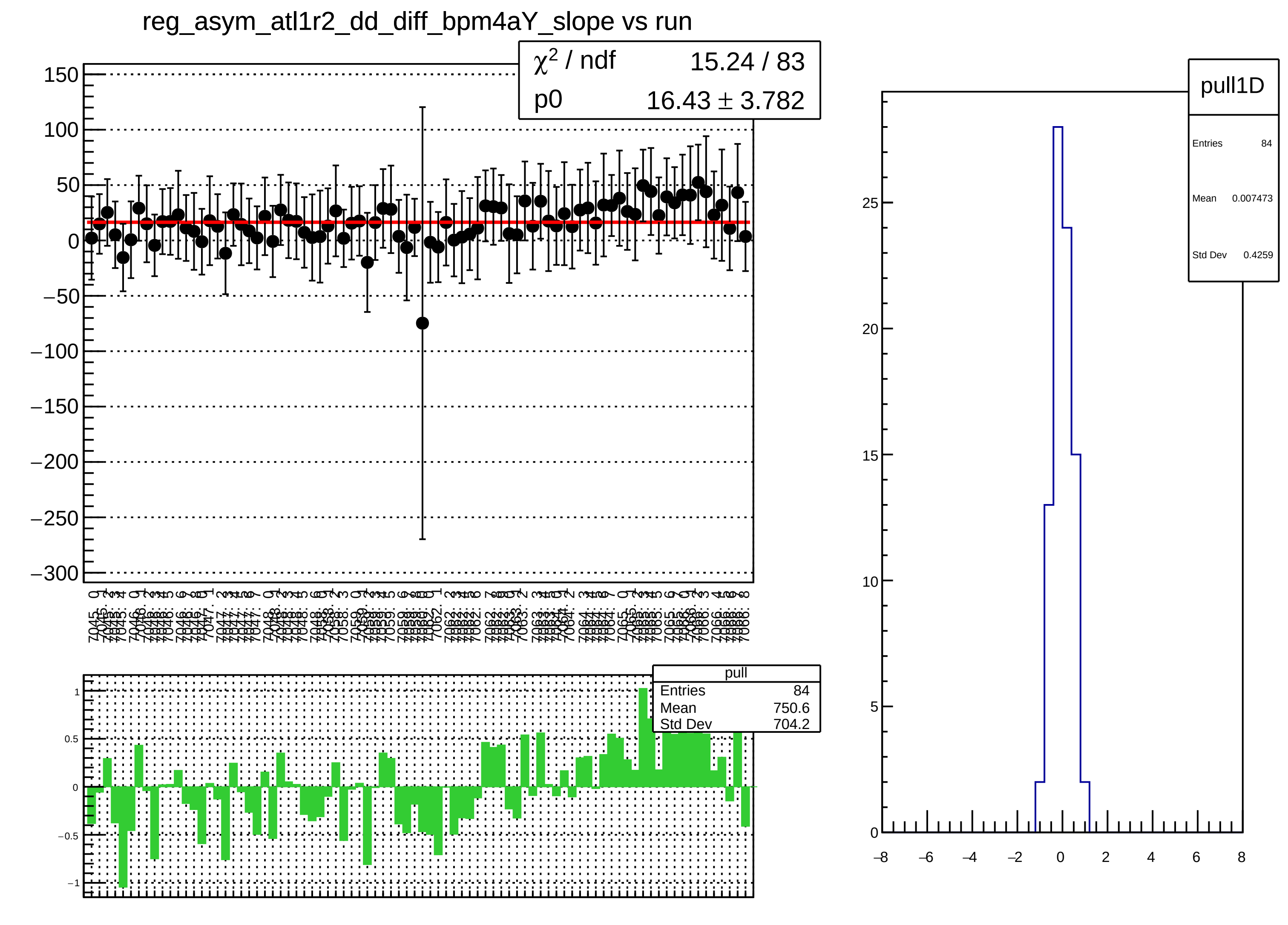
reg_asym_atl1r2_avg_diff_bpm12X_slope vs run

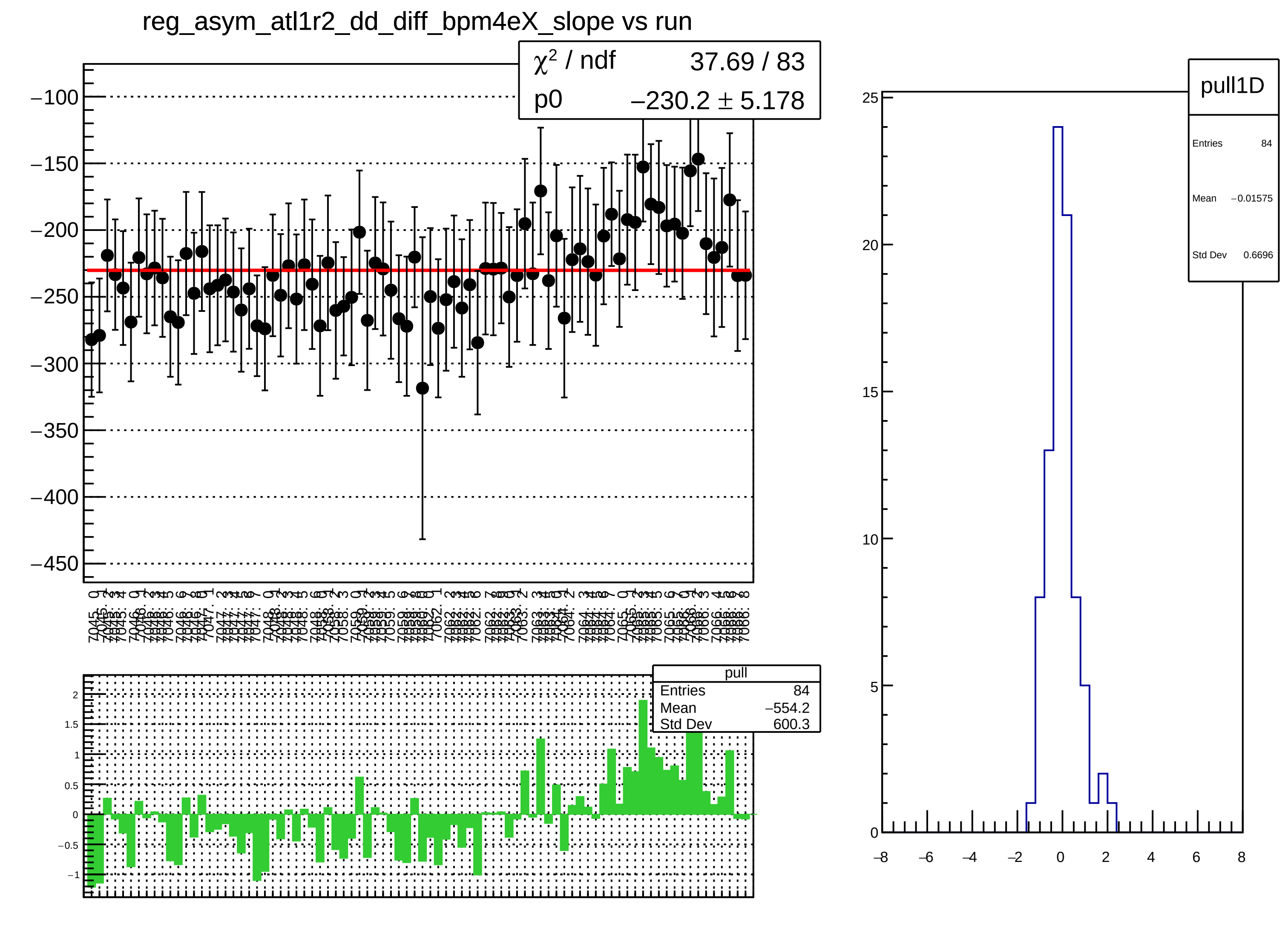


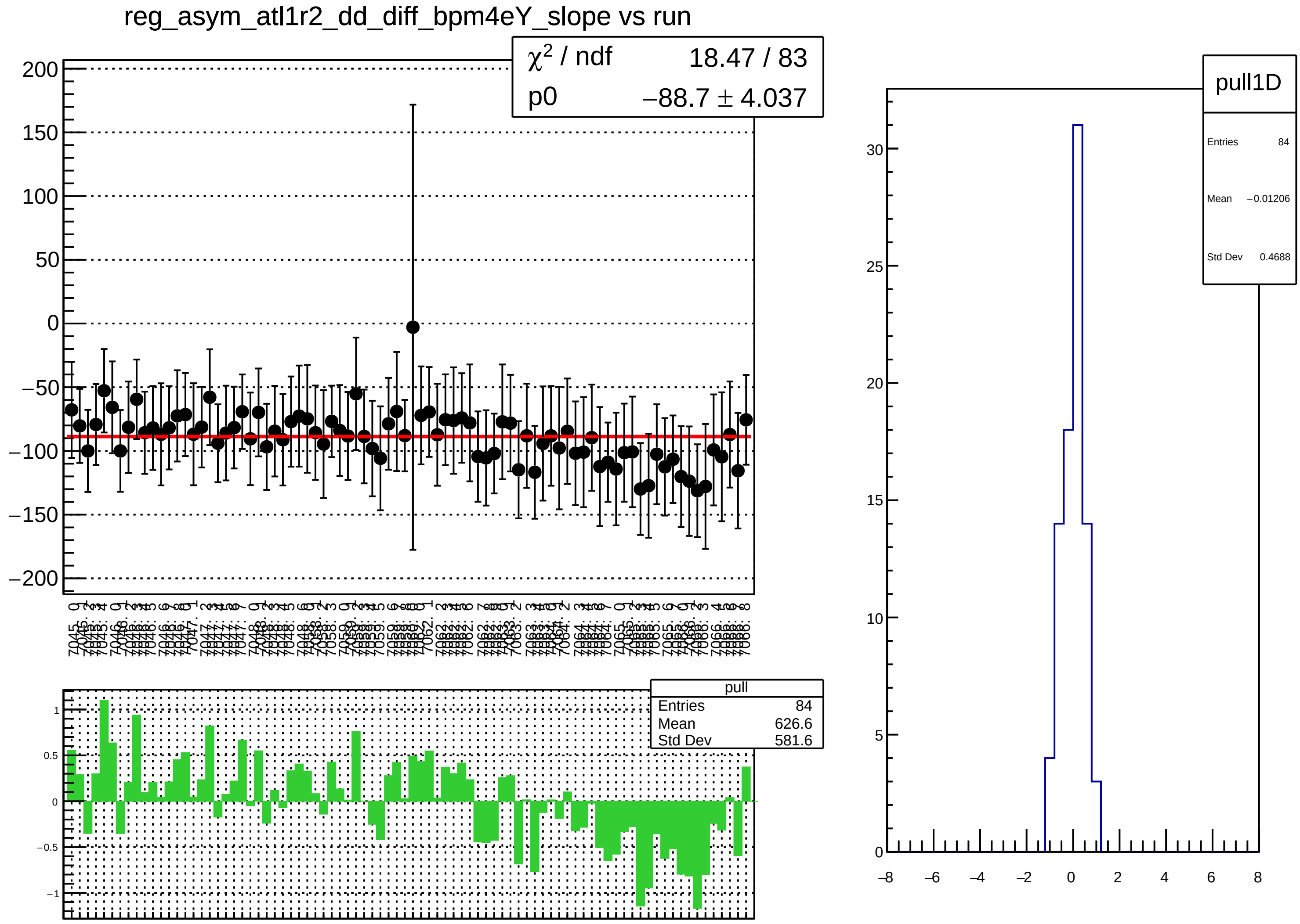


reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 39.54 / 83
p0 206.7 ± 5.434
pull
Entries 84
Mean −511.9
Std Dev 557
pull1D
Entries 84
Mean 0.01845
Std Dev 0.6858

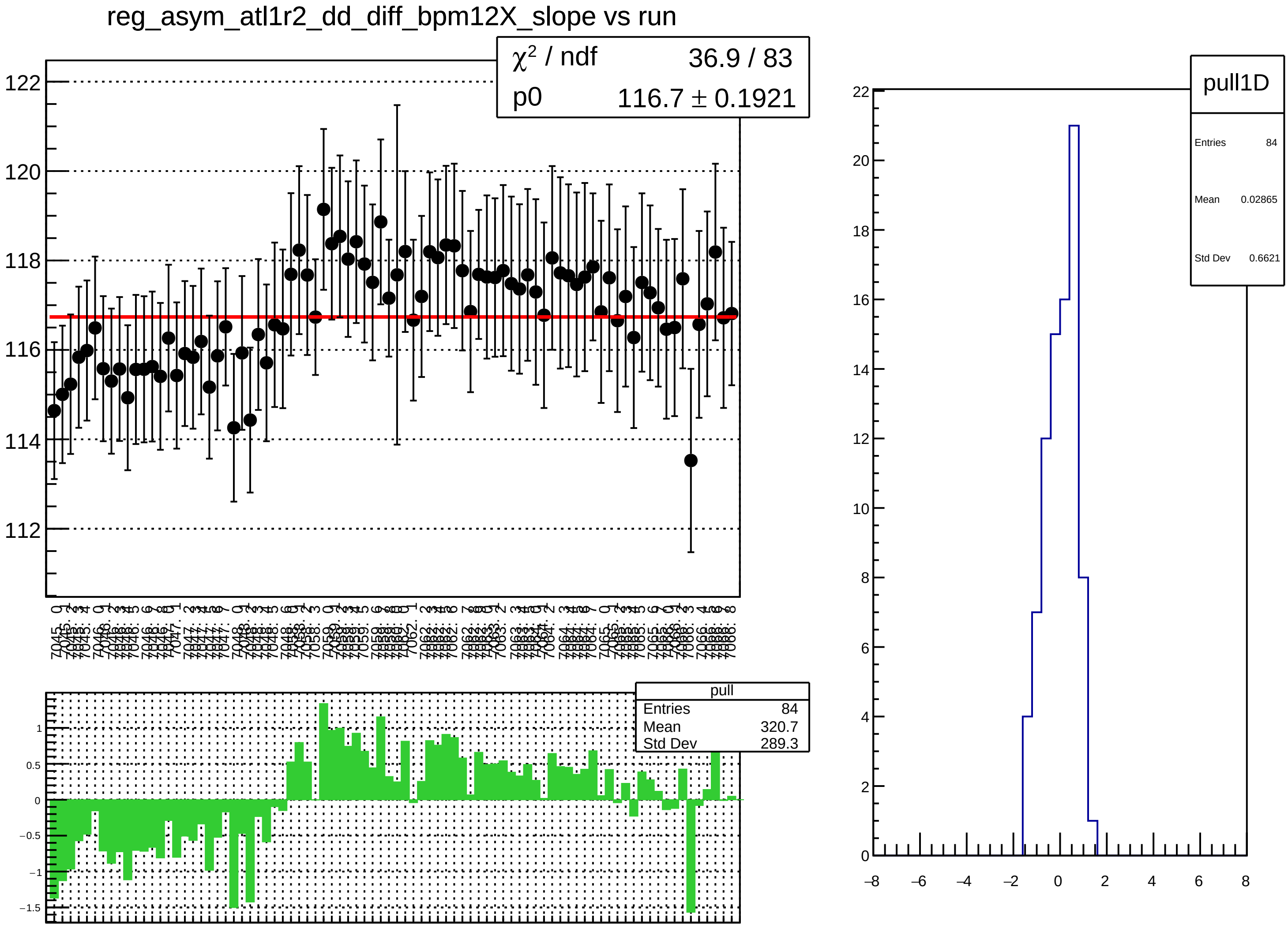

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ2 / ndf 15.24 / 83
p0 16.43 ± 3.782
pull
Entries 84
Mean 750.6
Std Dev 704.2
pull1D
Entries 84
Mean 0.007473
Std Dev 0.4259



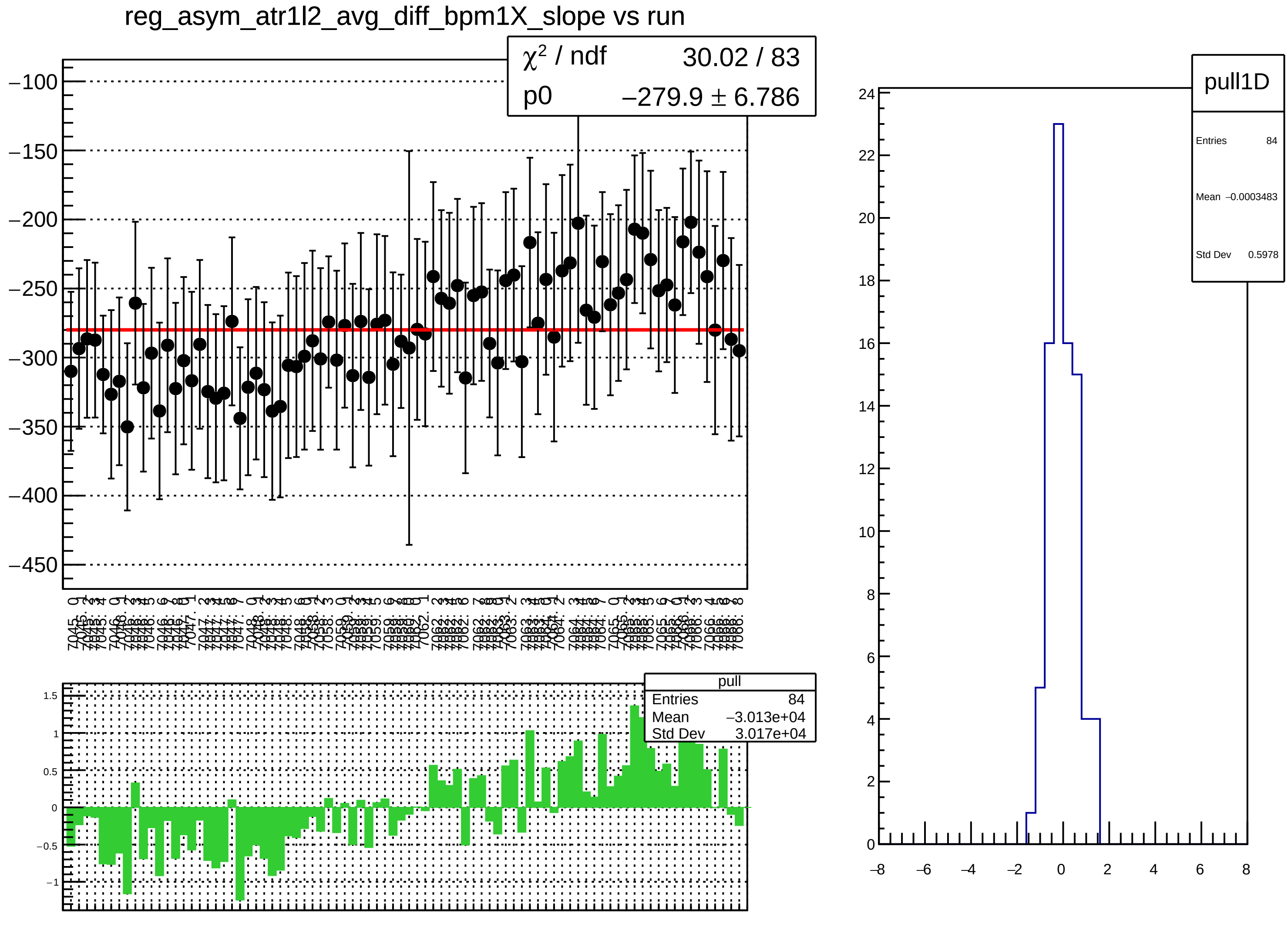
reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ2 / ndf 37.69 / 83
p0 −230.2 ± 5.178
pull
Entries 84
Mean −554.2
Std Dev 600.3
pull1D
Entries 84
Mean −0.01575
Std Dev 0.6696



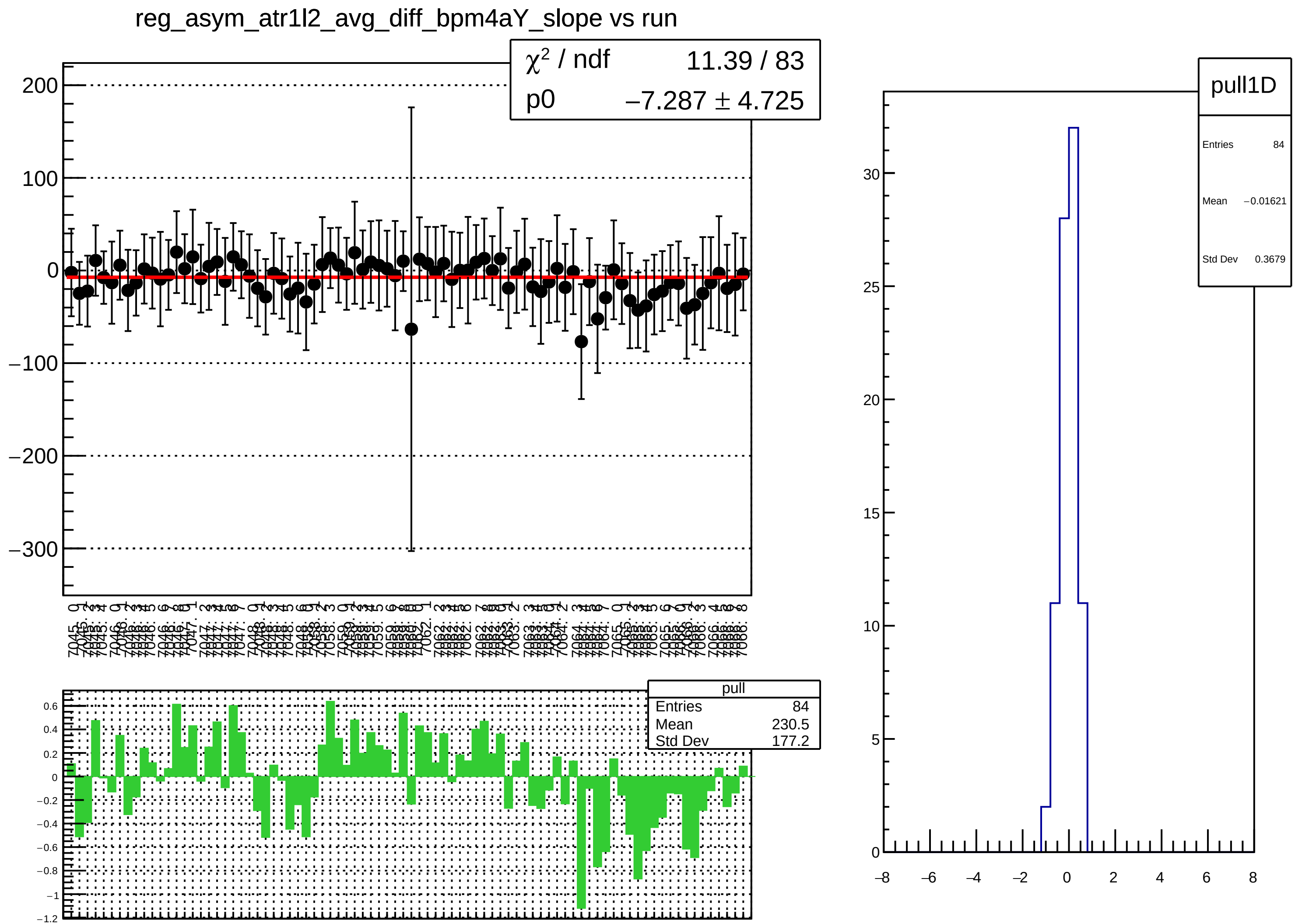
reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ2 / ndf 18.47 / 83
p0 −88.7 ± 4.037
pull
Entries 84
Mean 626.6
Std Dev 581.6
pull1D
Entries 84
Mean −0.01206
Std Dev 0.4688

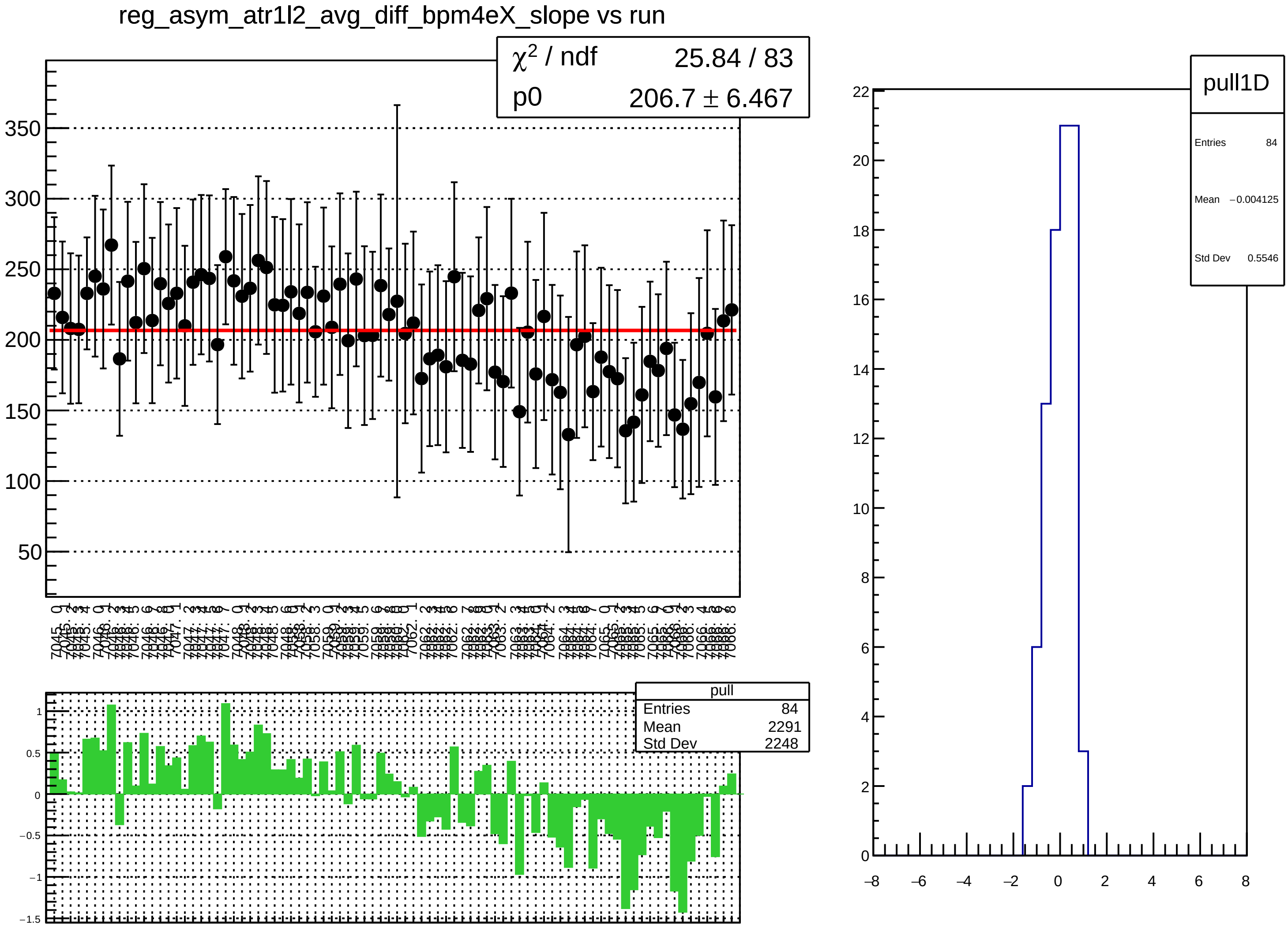


reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ2 / ndf 36.9 / 83
p0 116.7 ± 0.1921
pull
Entries 84
Mean 320.7
Std Dev 289.3
pull1D
Entries 84
Mean 0.02865
Std Dev 0.6621

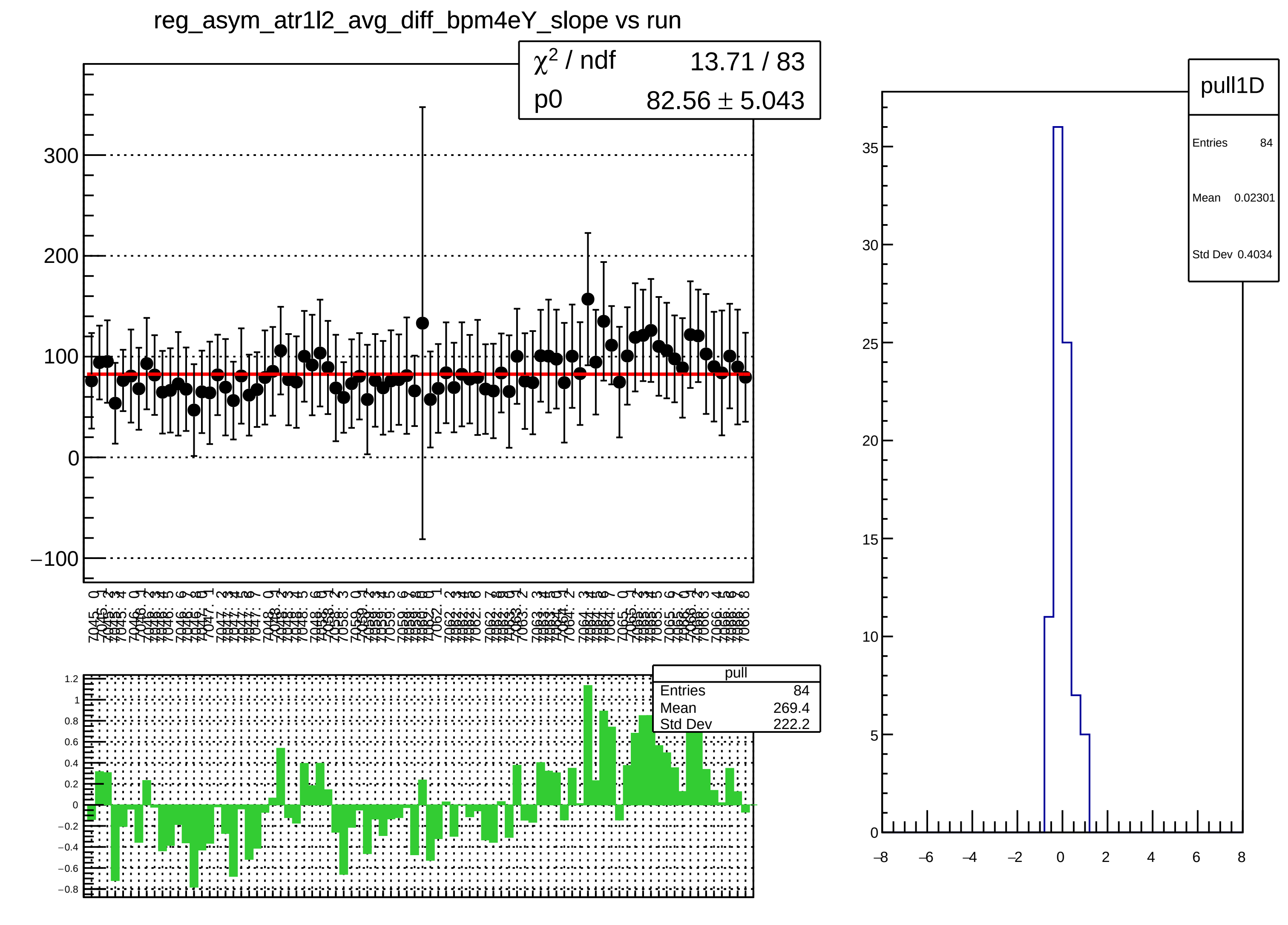


reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 30.02 / 83
p0 −279.9 ± 6.786
pull
Entries 84
Mean −3.013e+04
Std Dev 3.017e+04
pull1D
Entries 84
Mean −0.0003483
Std Dev 0.5978

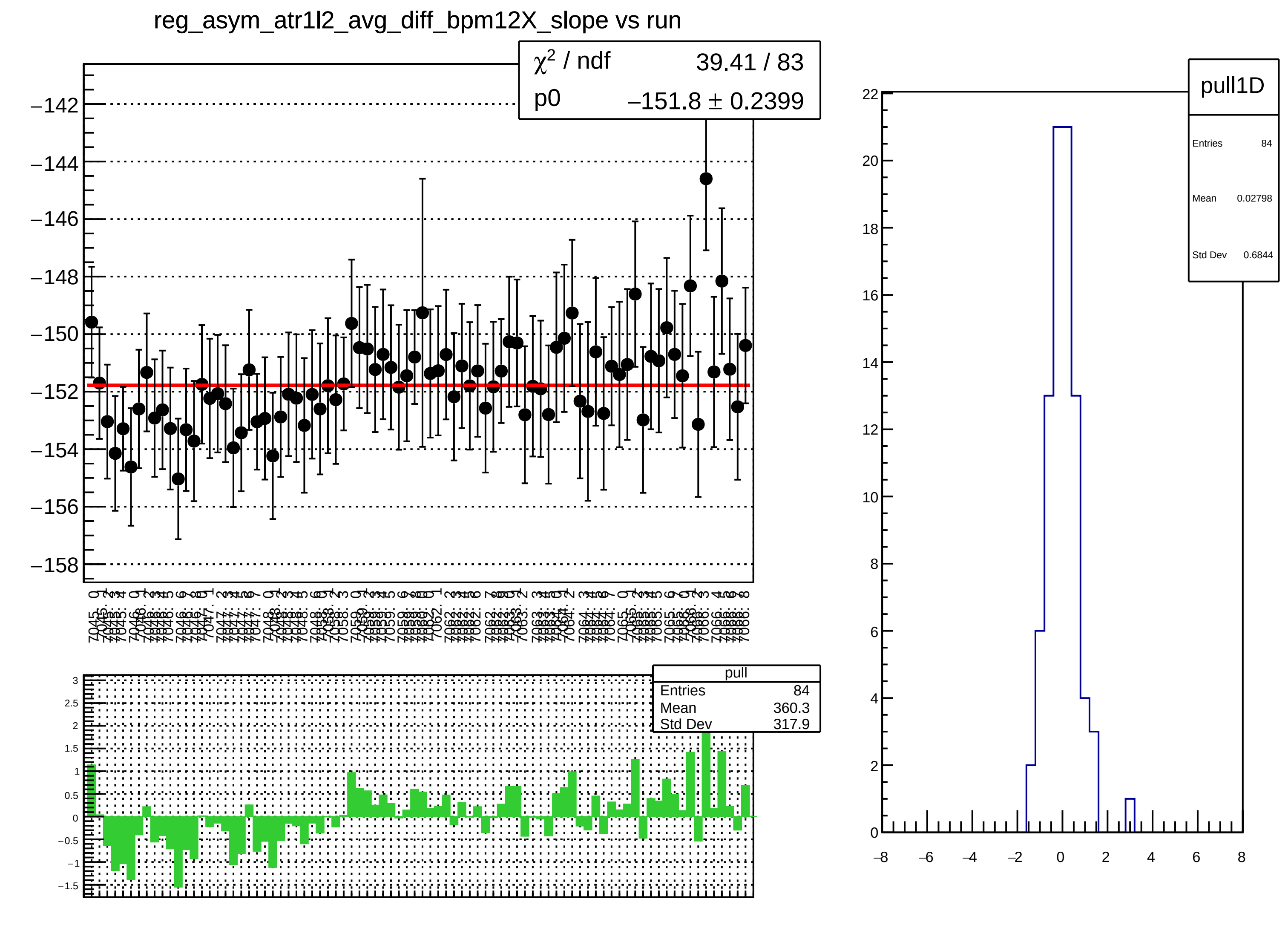

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 11.39 / 83
p0 −7.287 ± 4.725
pull
Entries 84
Mean 230.5
Std Dev 177.2
pull1D
Entries 84
Mean −0.01621
Std Dev 0.3679



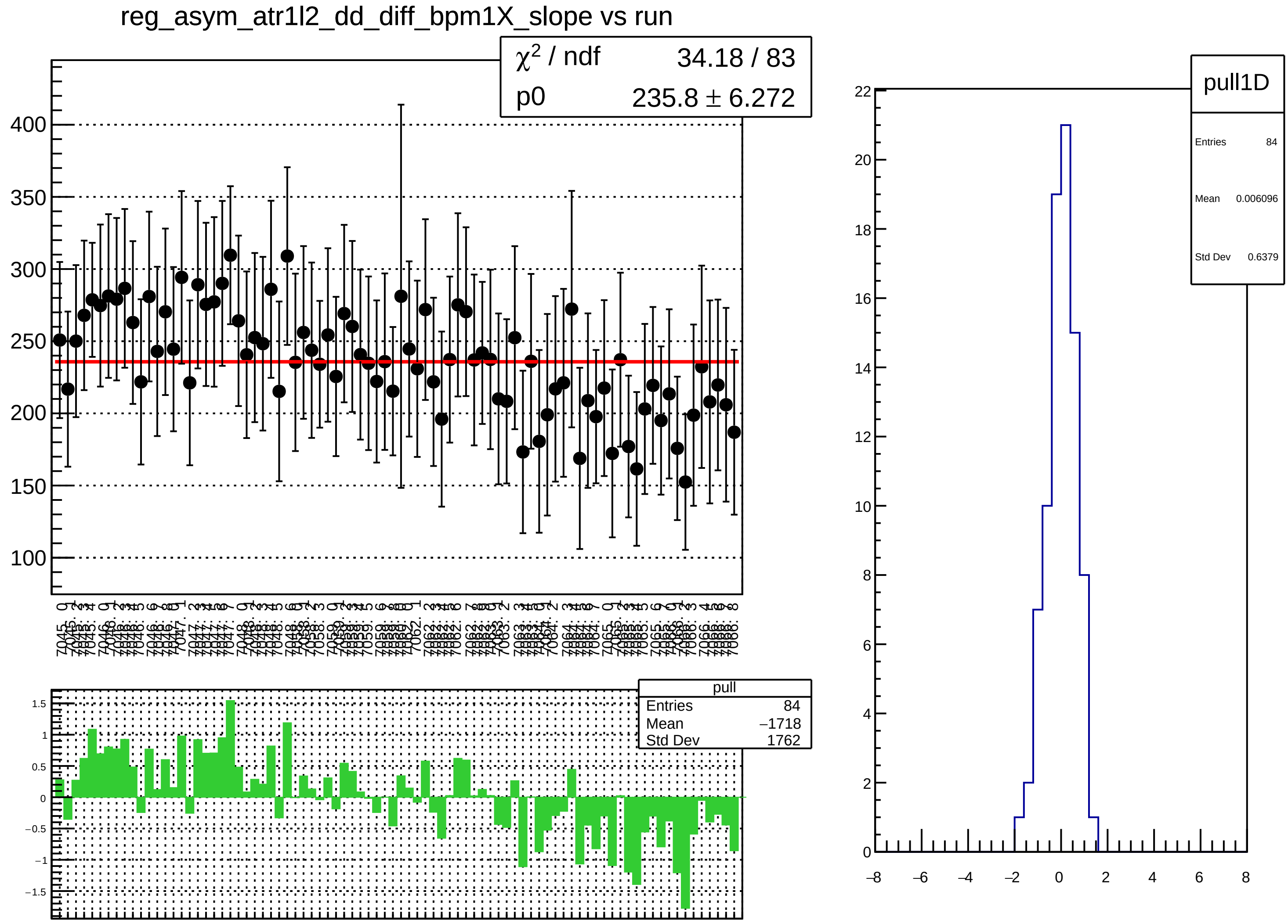
reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 25.84 / 83
p0 206.7 ± 6.467
pull
Entries 84
Mean 2291
Std Dev 2248
pull1D
Entries 84
Mean −0.004125
Std Dev 0.5546



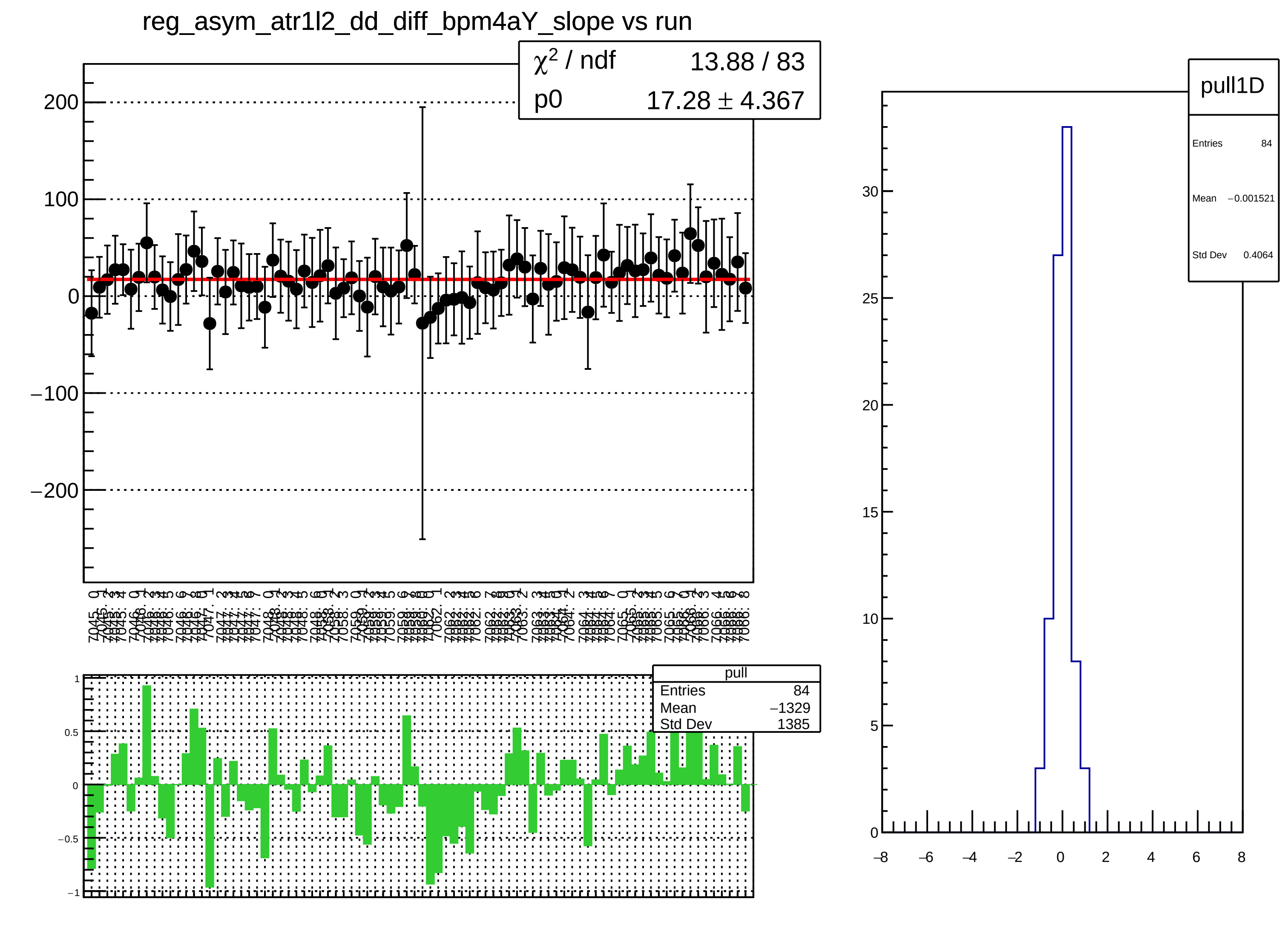
reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 13.71 / 83
p0 82.56 ± 5.043
300
200
100
0
−100
pull
Entries 84
Mean 269.4
Std Dev 222.2
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 84
Mean 0.02301
Std Dev 0.4034
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



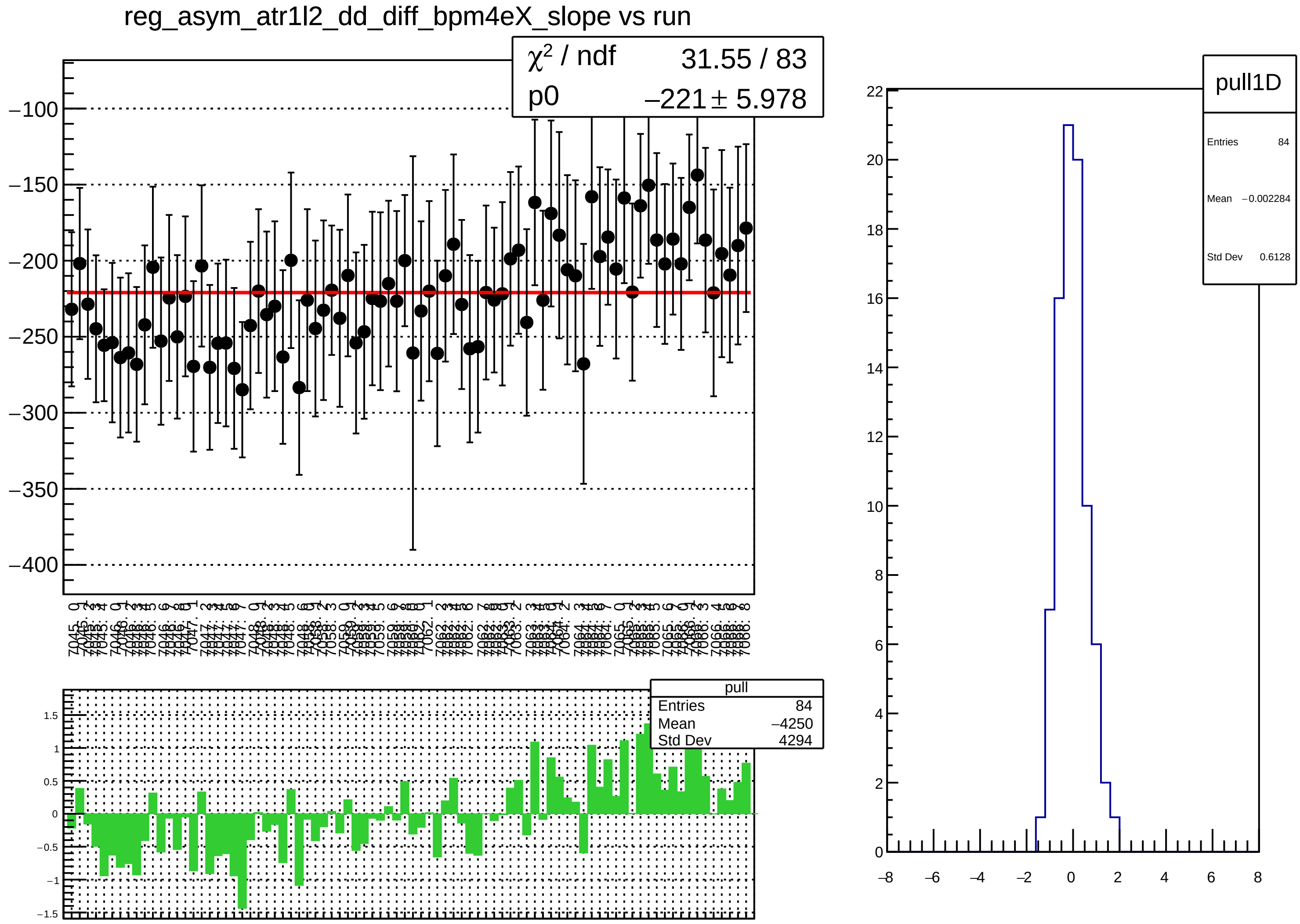
reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 39.41 / 83
p0 −151.8 ± 0.2399
pull
Entries 84
Mean 360.3
Std Dev 317.9
pull1D
Entries 84
Mean 0.02798
Std Dev 0.6844



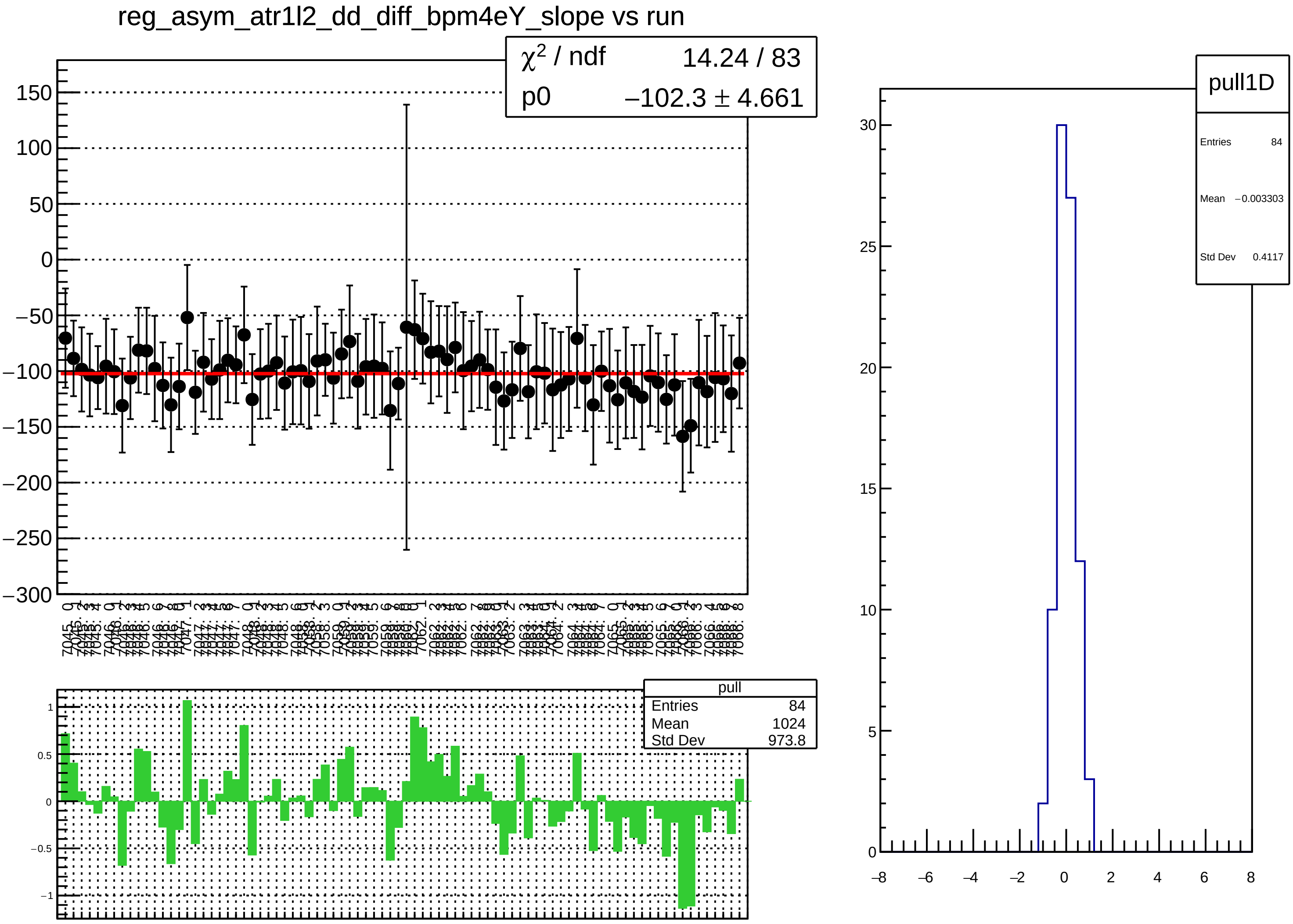
reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 34.18 / 83
p0 235.8 ± 6.272
pull
Entries 84
Mean −1718
Std Dev 1762
pull1D
Entries 84
Mean 0.006096
Std Dev 0.6379



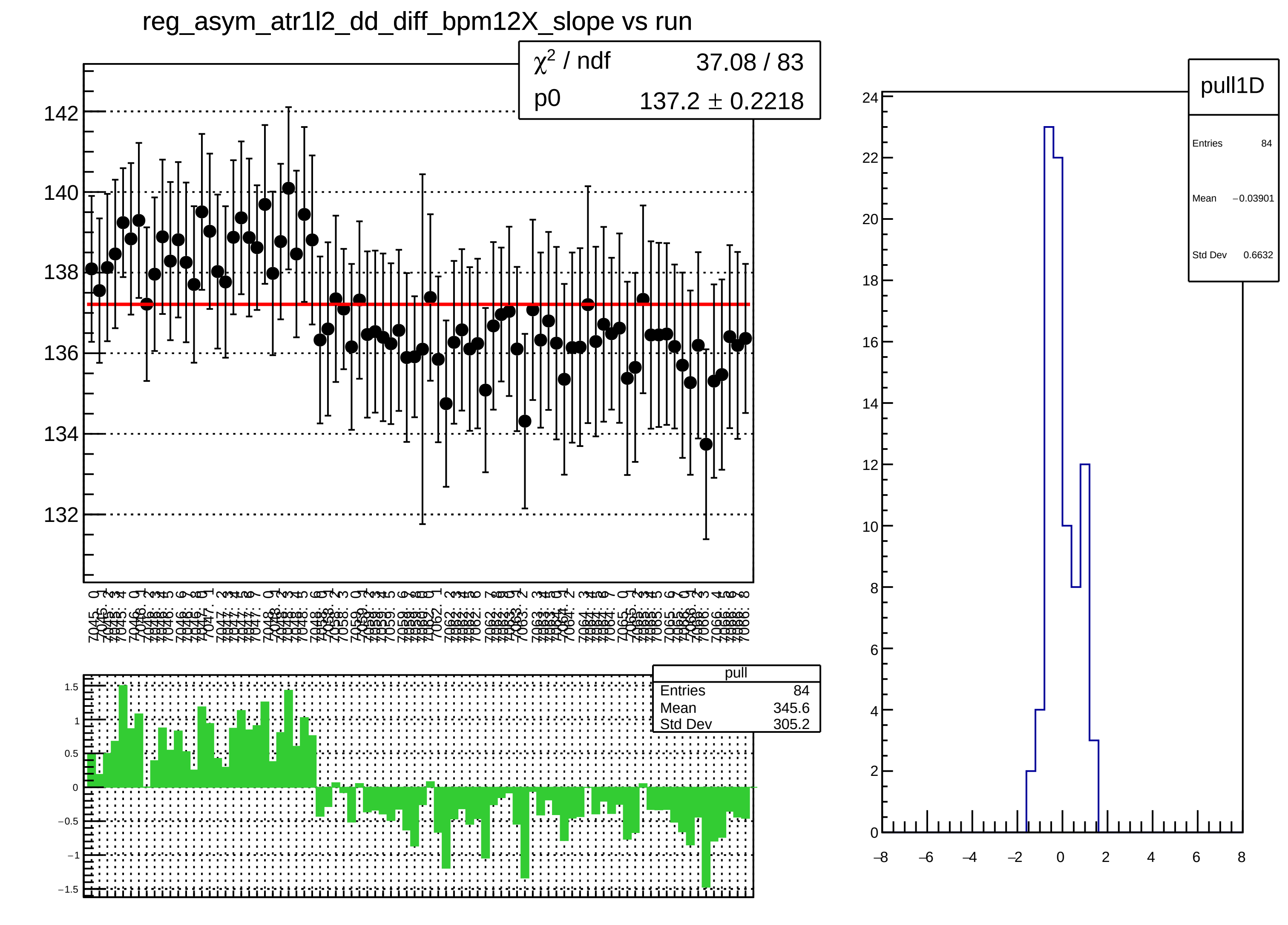
reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 13.88 / 83
p0 17.28 ± 4.367
pull
Entries 84
Mean −1329
Std Dev 1385
pull1D
Entries 84
Mean −0.001521
Std Dev 0.4064



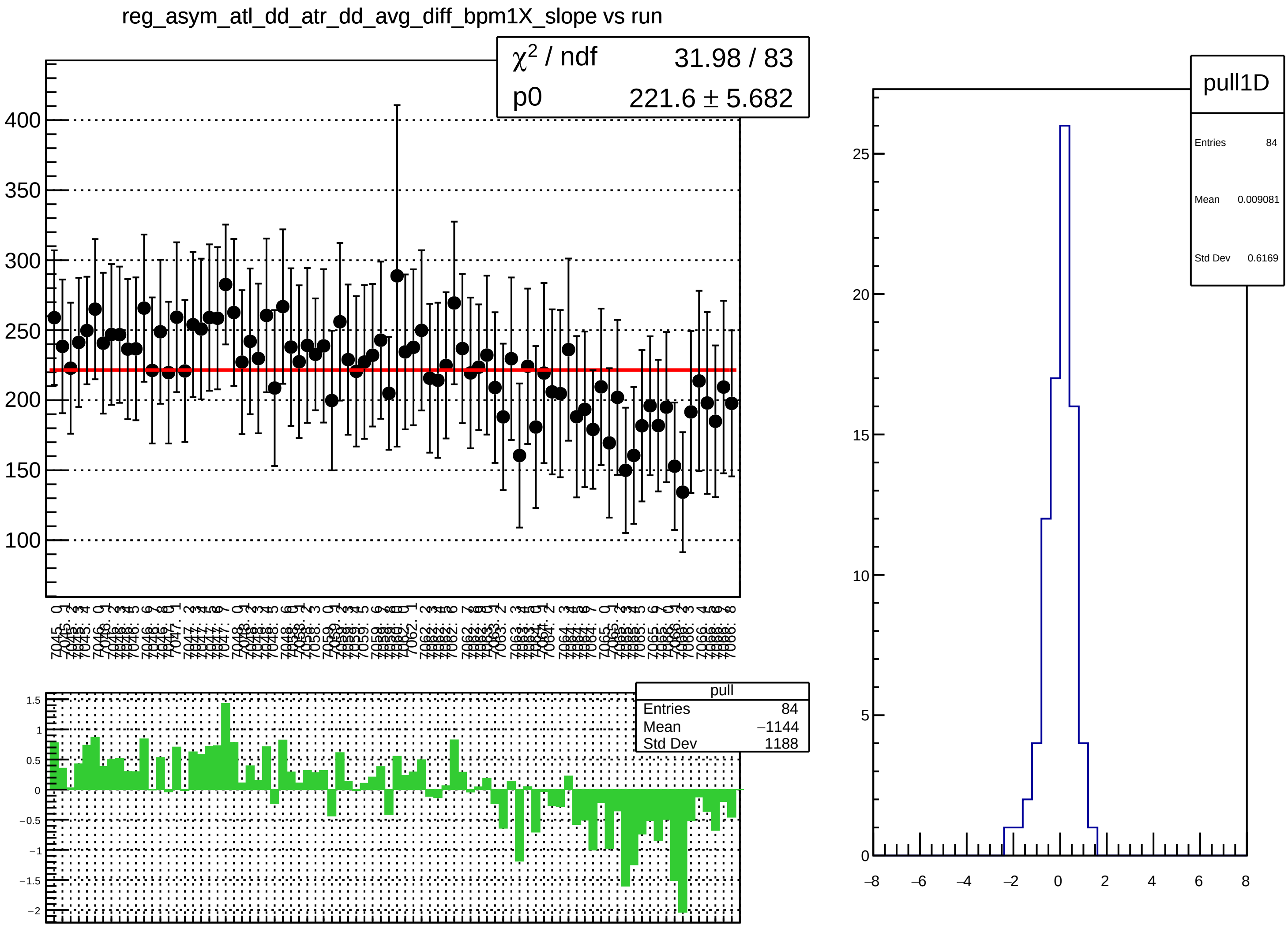
reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 31.55 / 83
p0 −221 ± 5.978
pull
Entries 84
Mean −4250
Std Dev 4294
pull1D
Entries 84
Mean −0.002284
Std Dev 0.6128



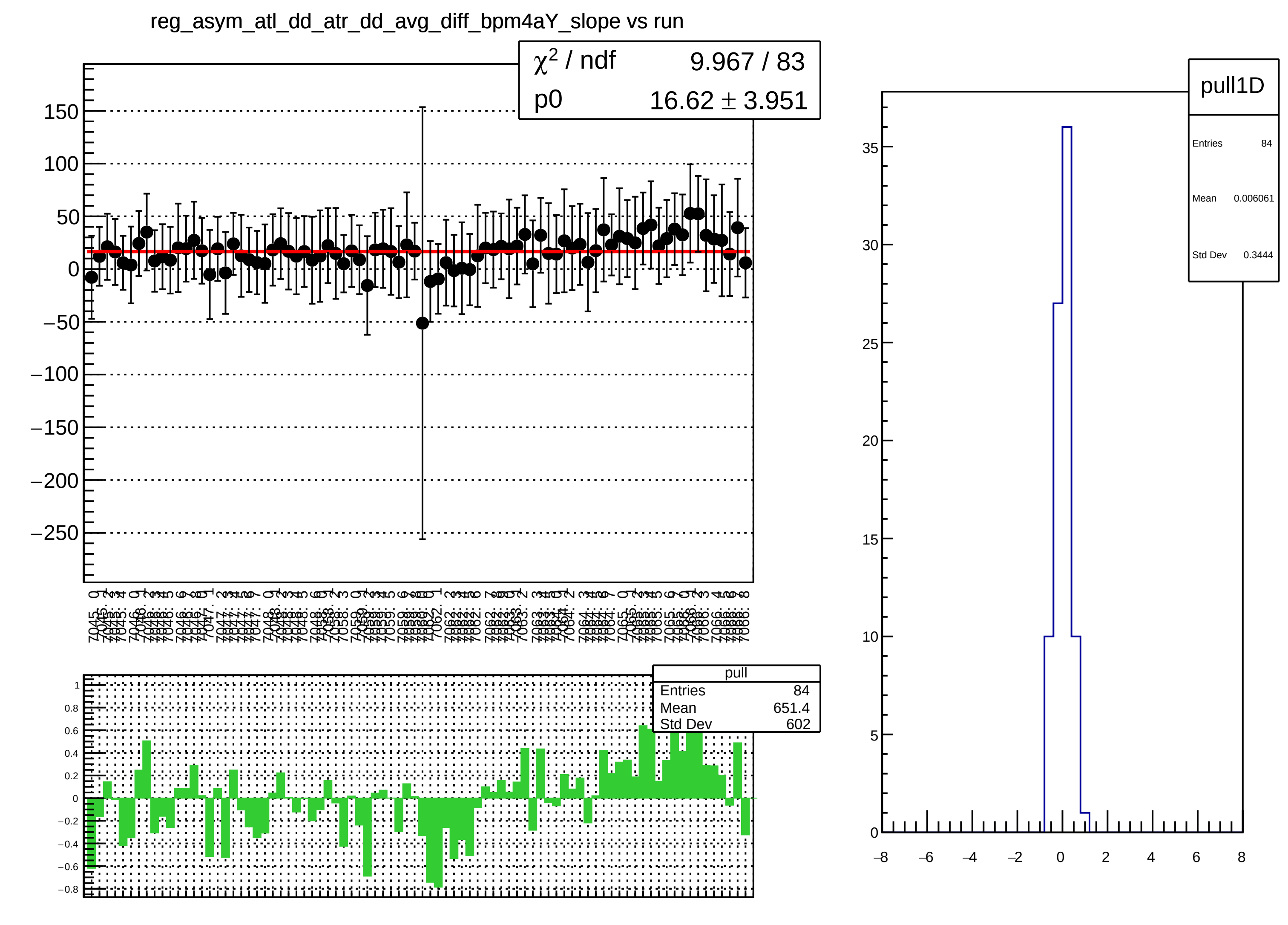
reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 14.24 / 83
p0 −102.3 ± 4.661
pull
Entries 84
Mean 1024
Std Dev 973.8
pull1D
Entries 84
Mean −0.003303
Std Dev 0.4117

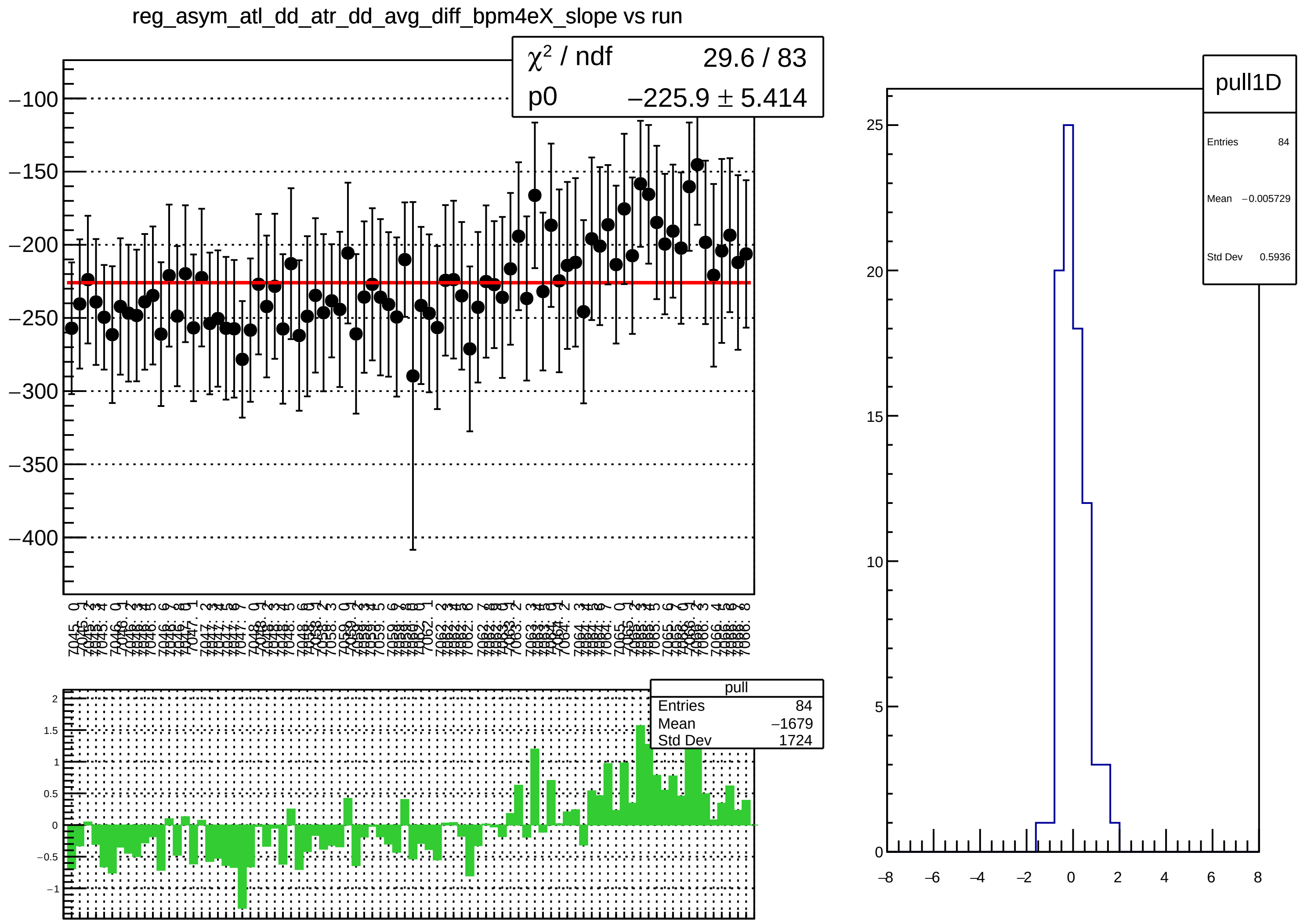


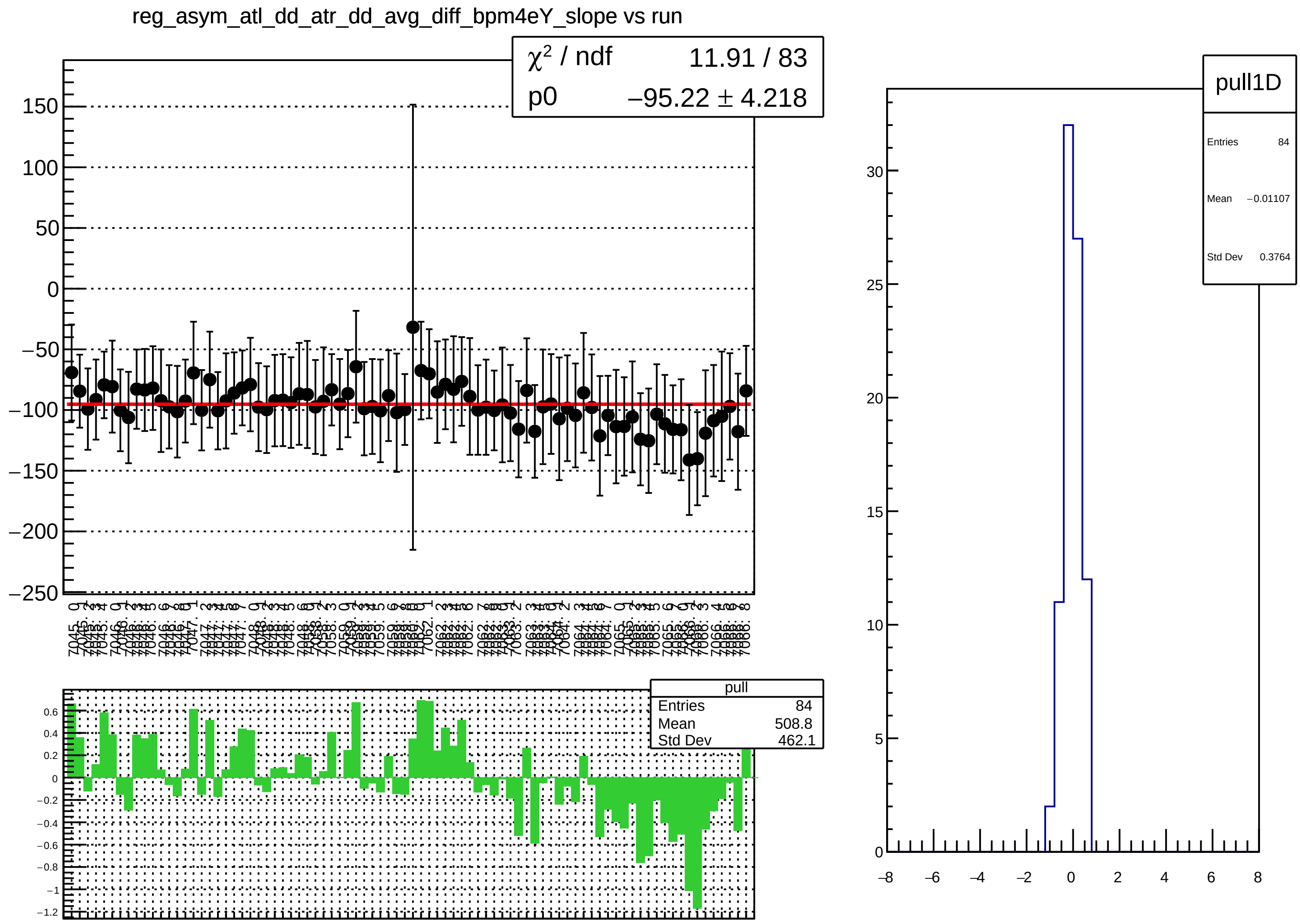
reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 37.08 / 83
p0 137.2 ± 0.2218
142
140
138
136
134
132
pull
Entries 84
Mean 345.6
Std Dev 305.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean −0.03901
Std Dev 0.6632
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



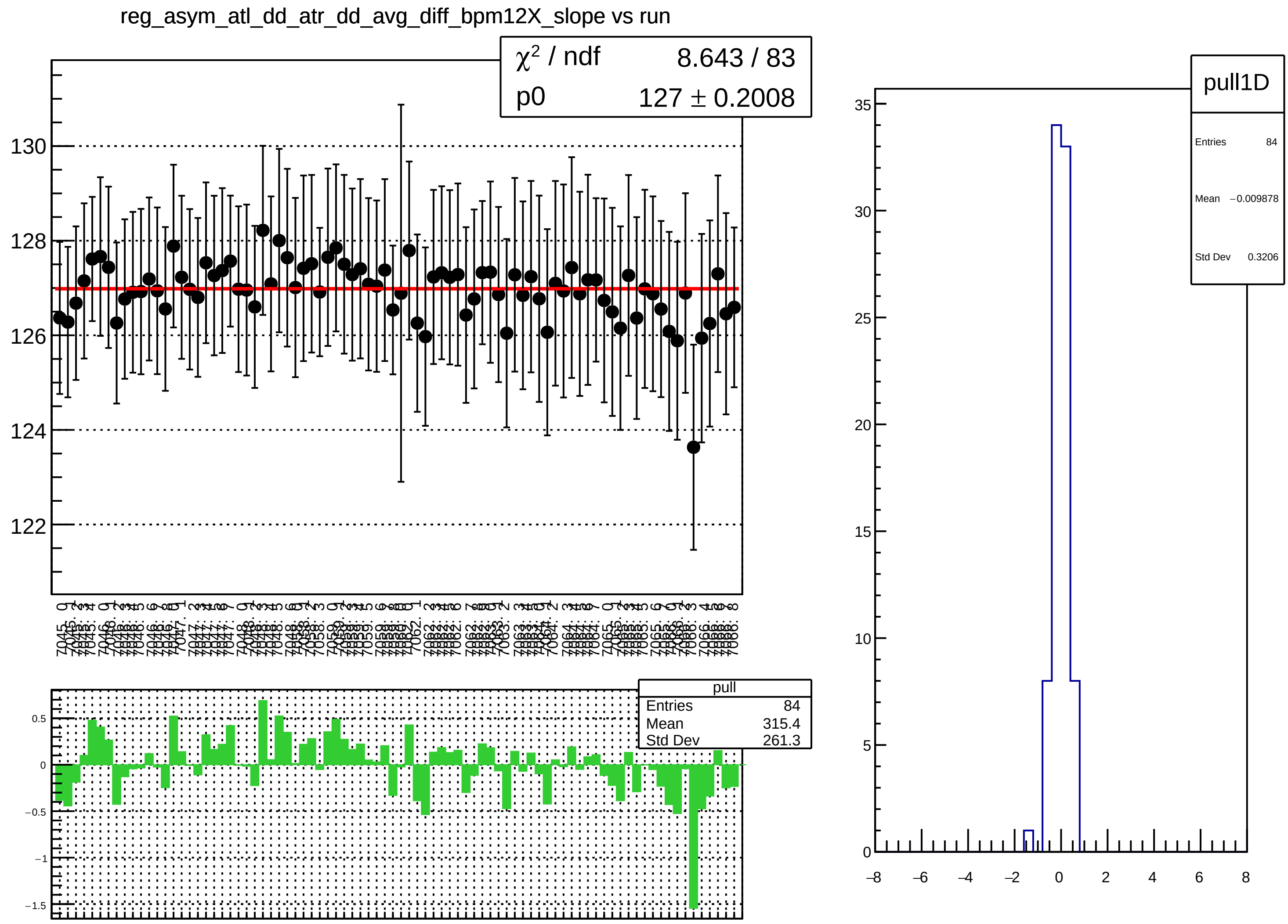
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 31.98 / 83
p0 221.6 ± 5.682
pull
Entries 84
Mean −1144
Std Dev 1188
pull1D
Entries 84
Mean 0.009081
Std Dev 0.6169


reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 9.967 / 83
p0 16.62 ± 3.951
pull
Entries 84
Mean 651.4
Std Dev 602
pull1D
Entries 84
Mean 0.006061
Std Dev 0.3444

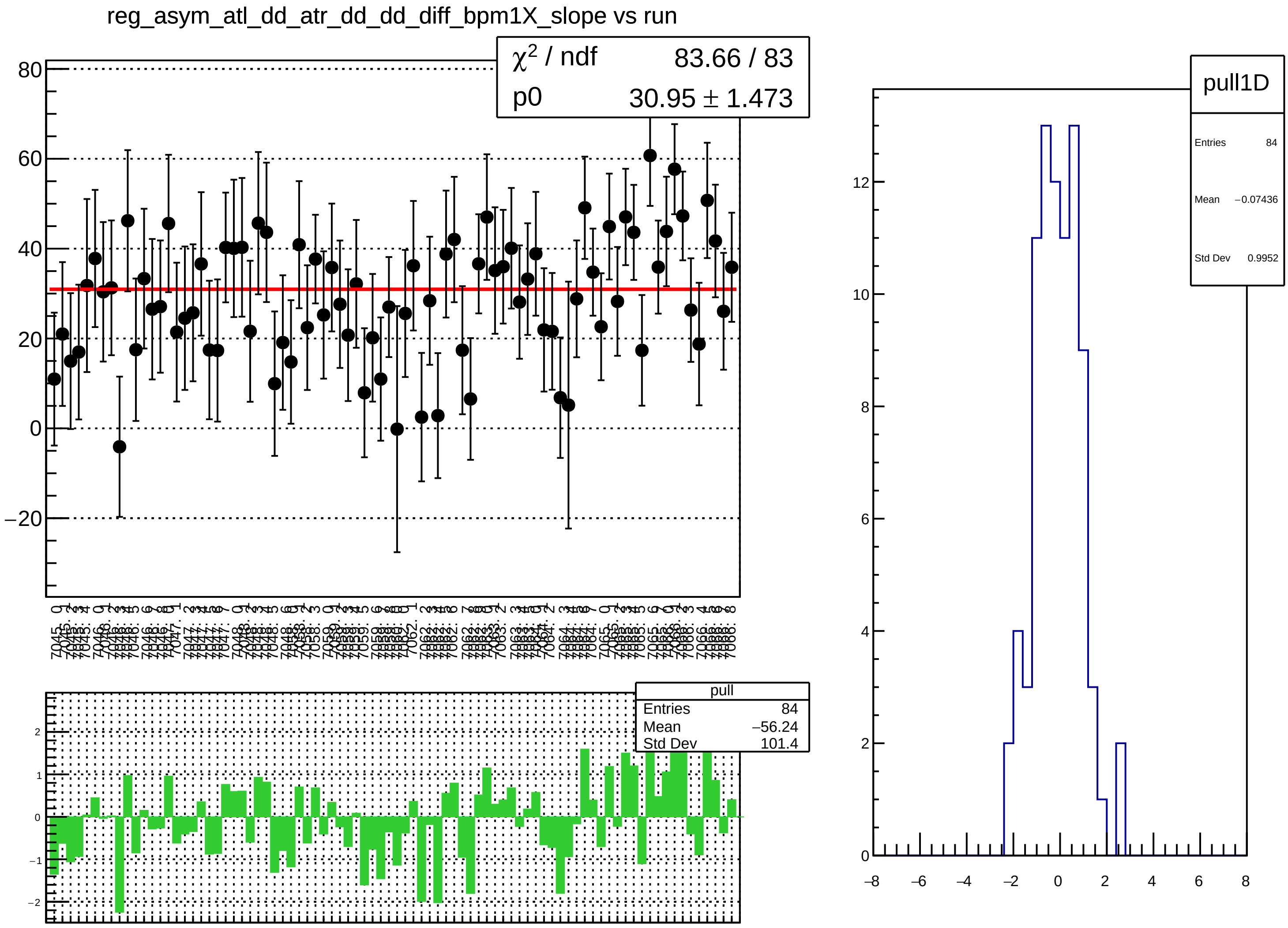

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 29.6 / 83
p0 −225.9 ± 5.414
pull
Entries 84
Mean −1679
Std Dev 1724
pull1D
Entries 84
Mean −0.005729
Std Dev 0.5936



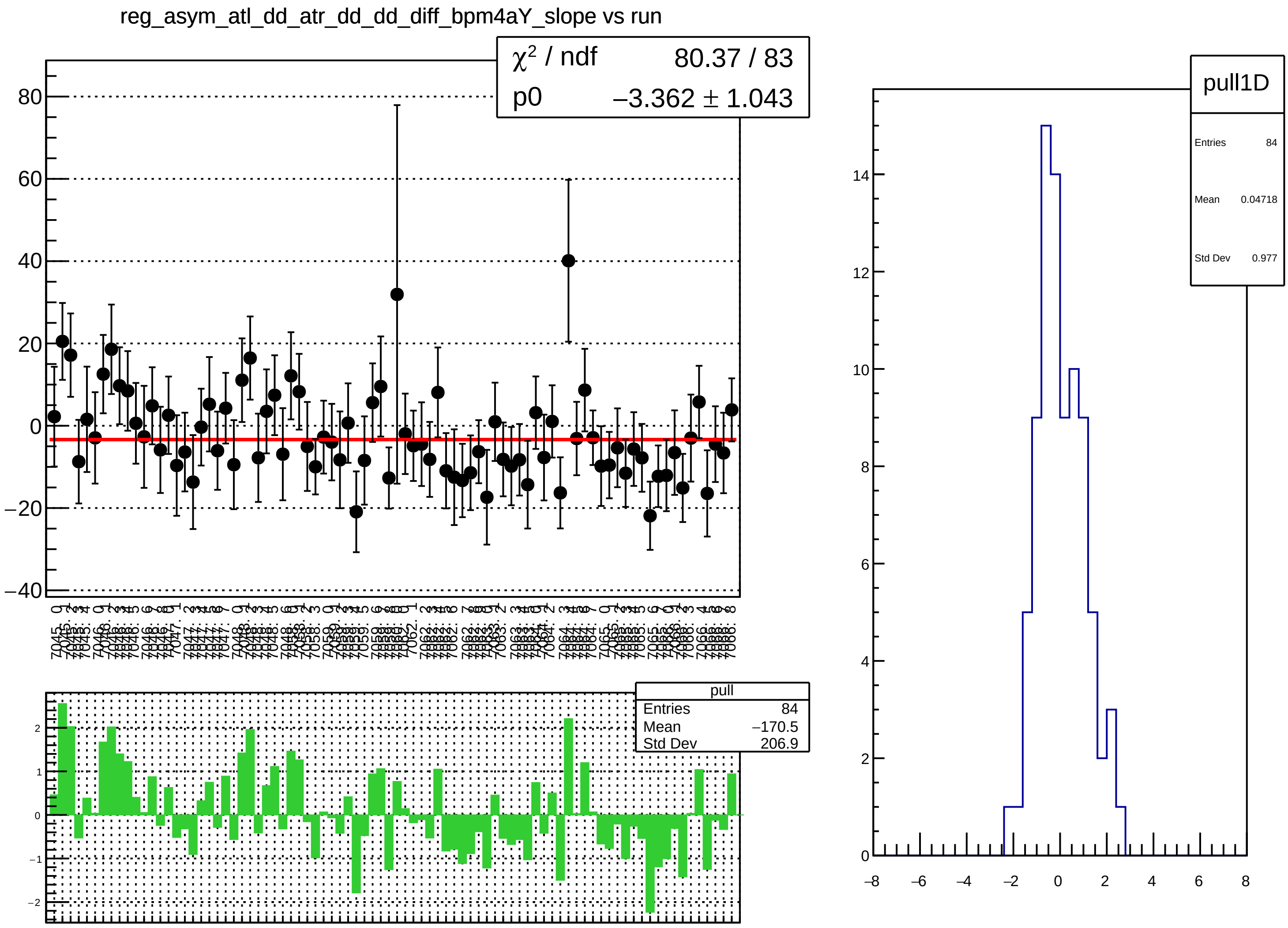
reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 11.91 / 83
p0 −95.22 ± 4.218
pull
Entries 84
Mean 508.8
Std Dev 462.1
pull1D
Entries 84
Mean −0.01107
Std Dev 0.3764



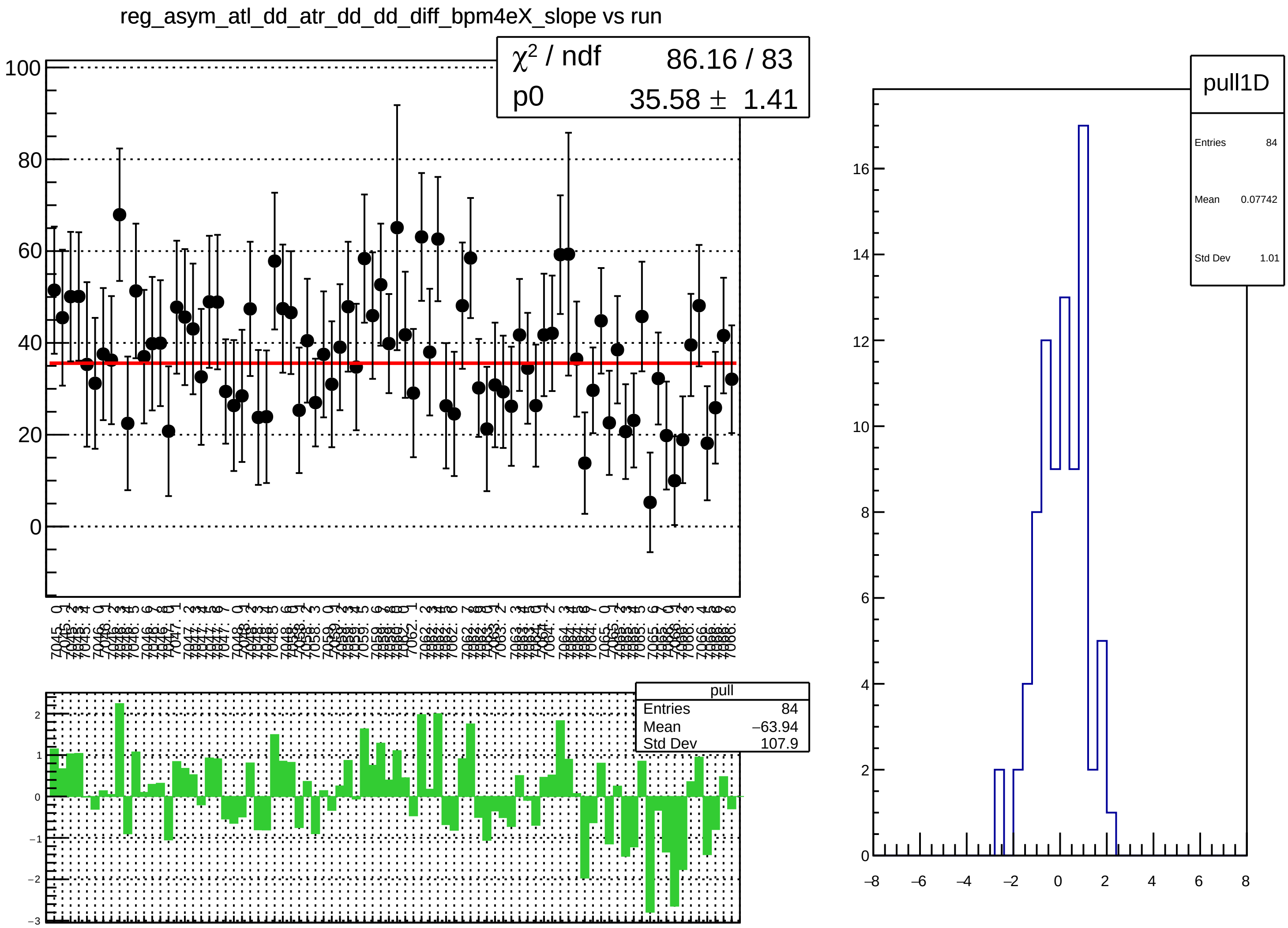
reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ2 / ndf 8.643 / 83
p0 127 ± 0.2008
pull
Entries 84
Mean 315.4
Std Dev 261.3
pull1D
Entries 84
Mean −0.009878
Std Dev 0.3206



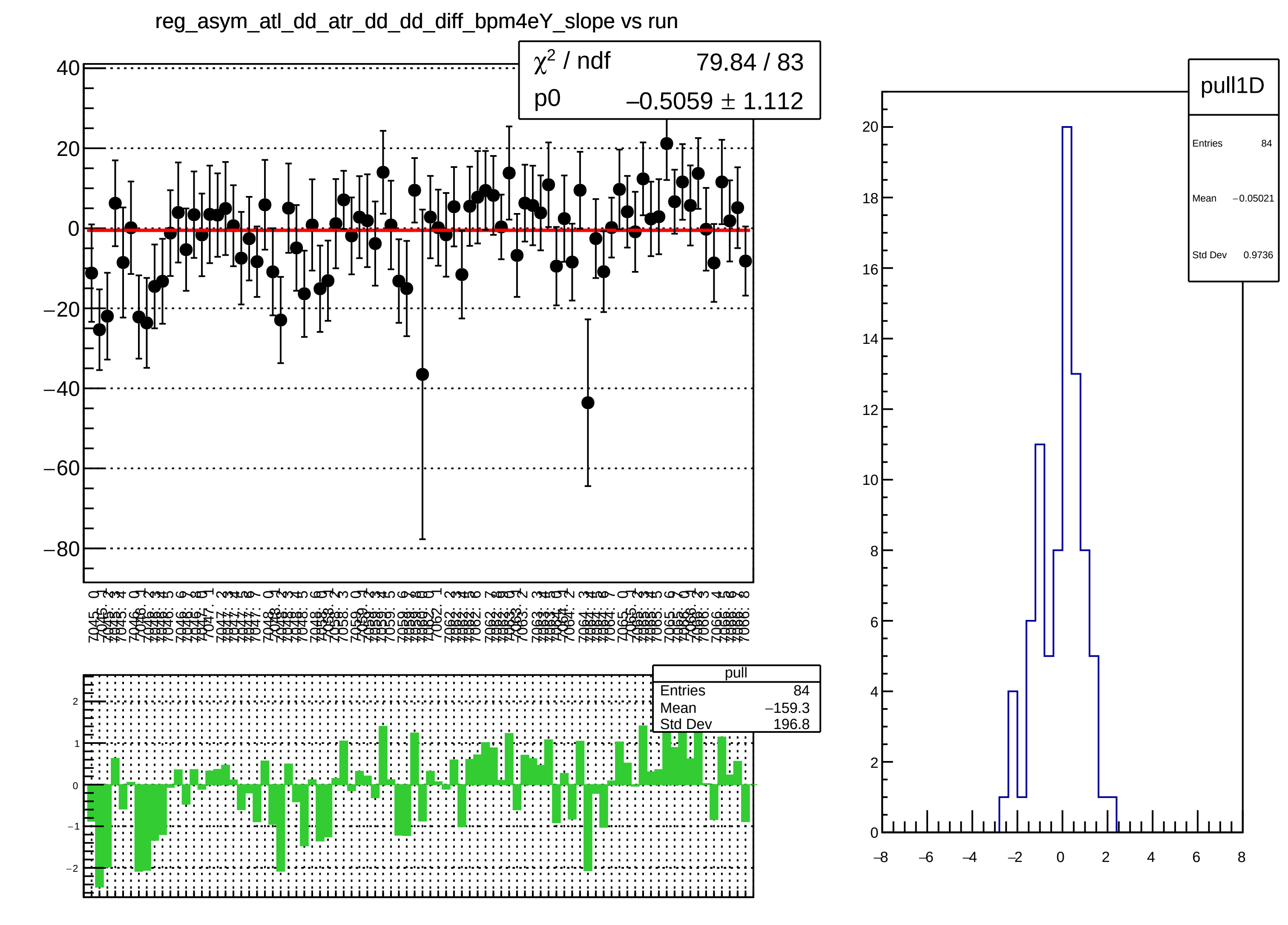
reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 83.66 / 83
p0 30.95 ± 1.473
pull
Entries 84
Mean −56.24
Std Dev 101.4
pull1D
Entries 84
Mean −0.07436
Std Dev 0.9952



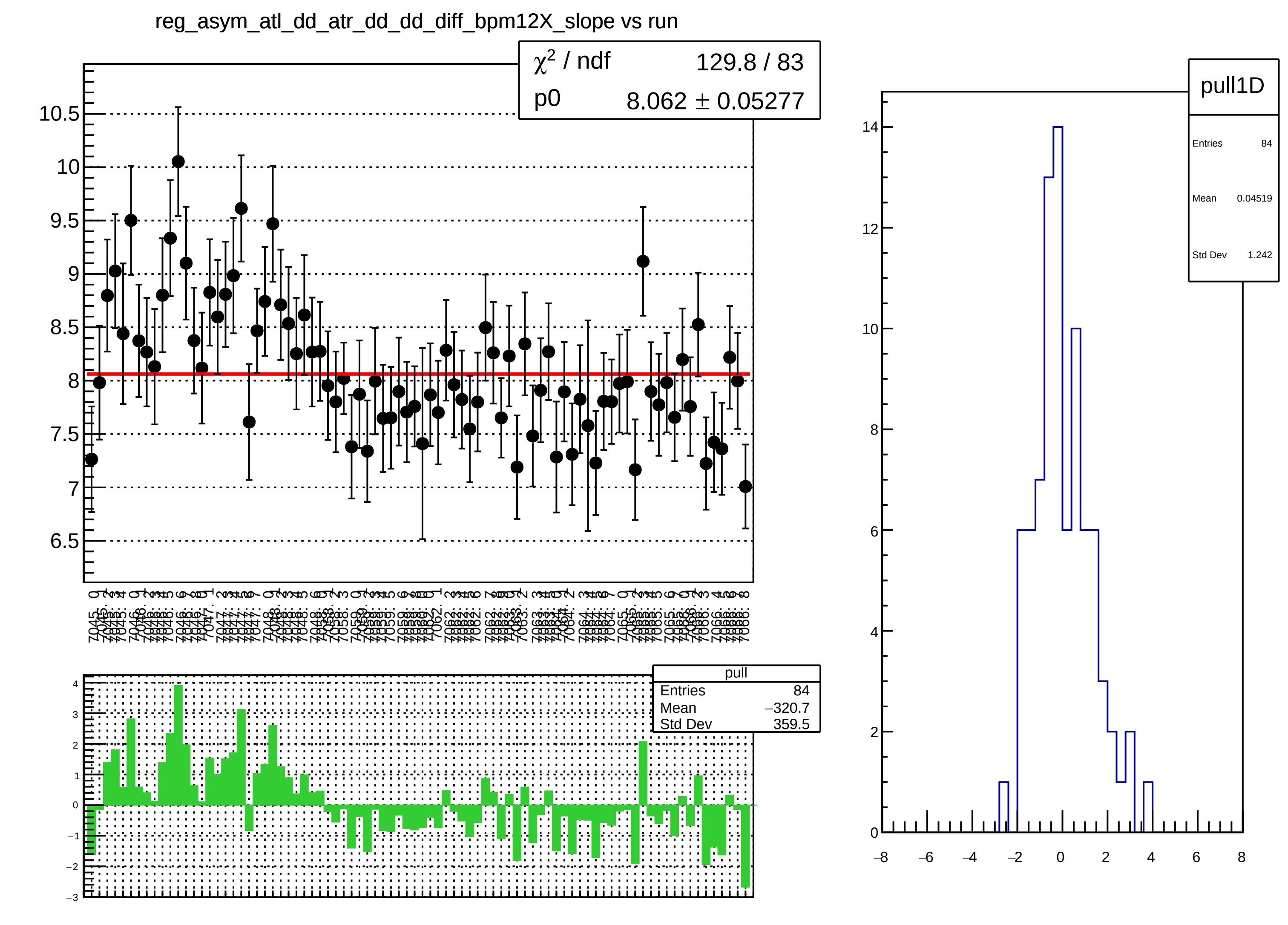
reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 80.37 / 83
p0 −3.362 ± 1.043
pull
Entries 84
Mean −170.5
Std Dev 206.9
pull1D
Entries 84
Mean 0.04718
Std Dev 0.977

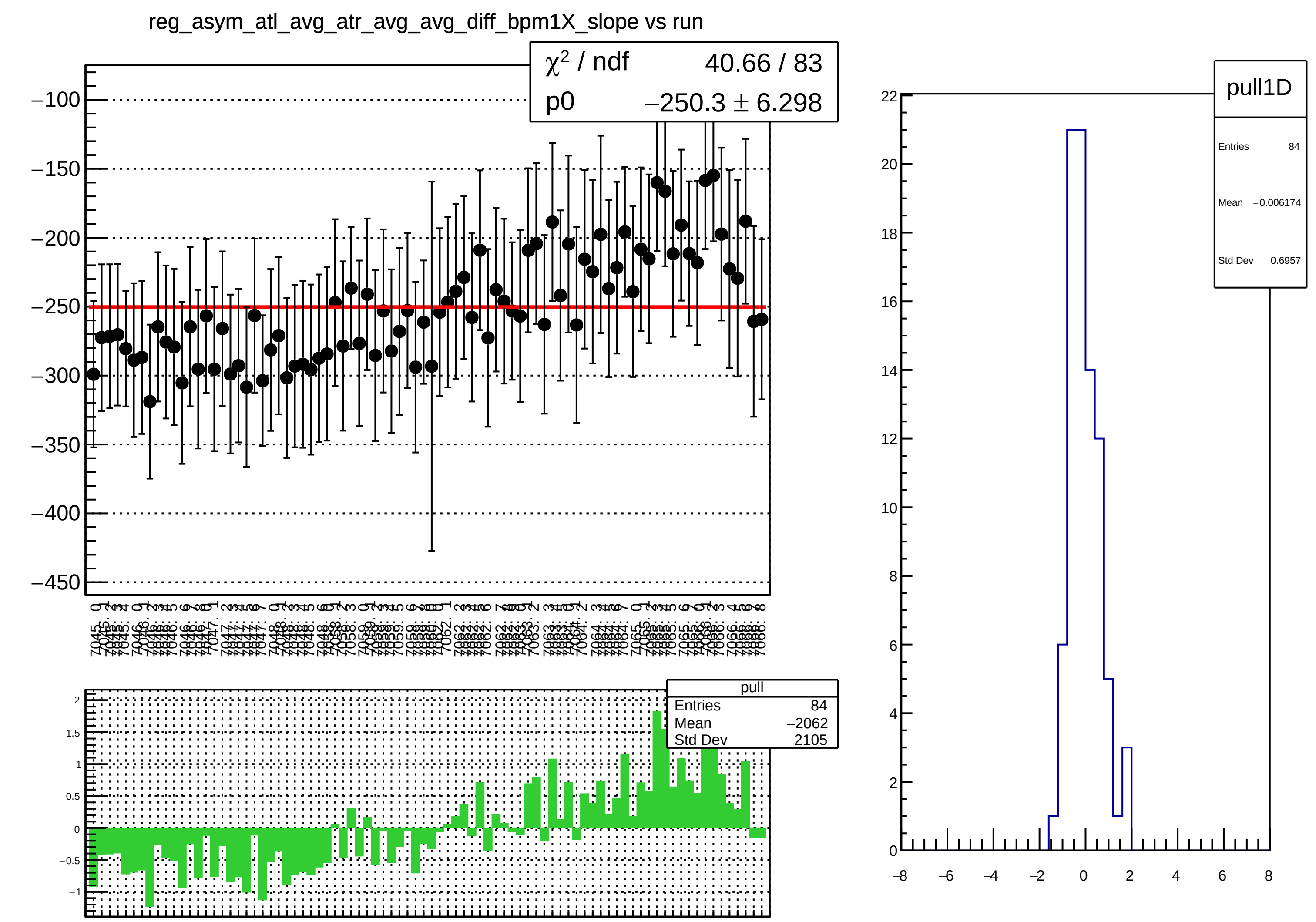


reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 86.16 / 83
p0 35.58 ± 1.41
pull
Entries 84
Mean −63.94
Std Dev 107.9
pull1D
Entries 84
Mean 0.07742
Std Dev 1.01

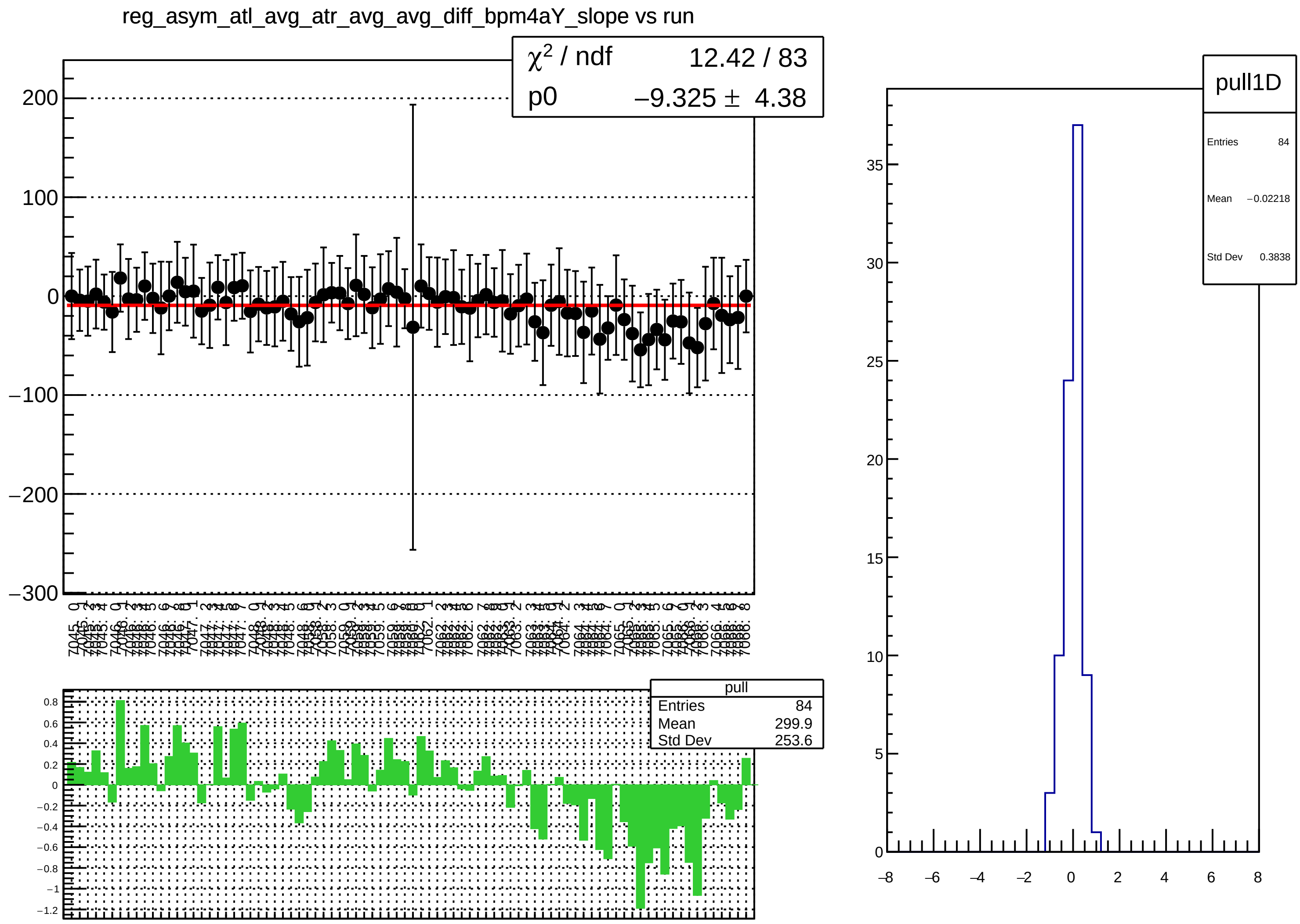


reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ2 / ndf 79.84 / 83
p0 −0.5059 ± 1.112
40
20
0
−20
−40
−60
−80
pull
Entries 84
Mean −159.3
Std Dev 196.8
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.05021
Std Dev 0.9736
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

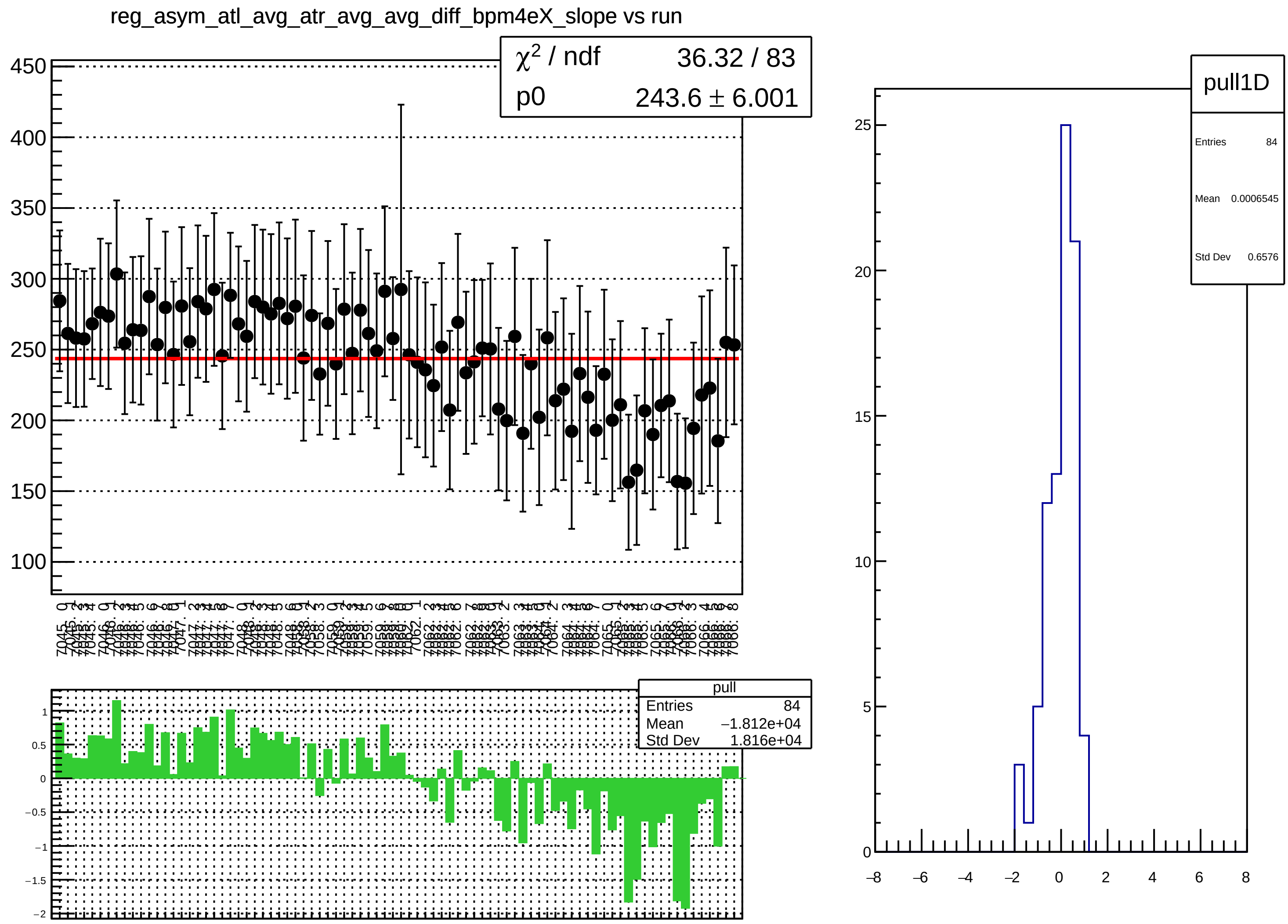

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 129.8 / 83
p0 8.062 ± 0.05277
pull
Entries 84
Mean −320.7
Std Dev 359.5
pull1D
Entries 84
Mean 0.04519
Std Dev 1.242



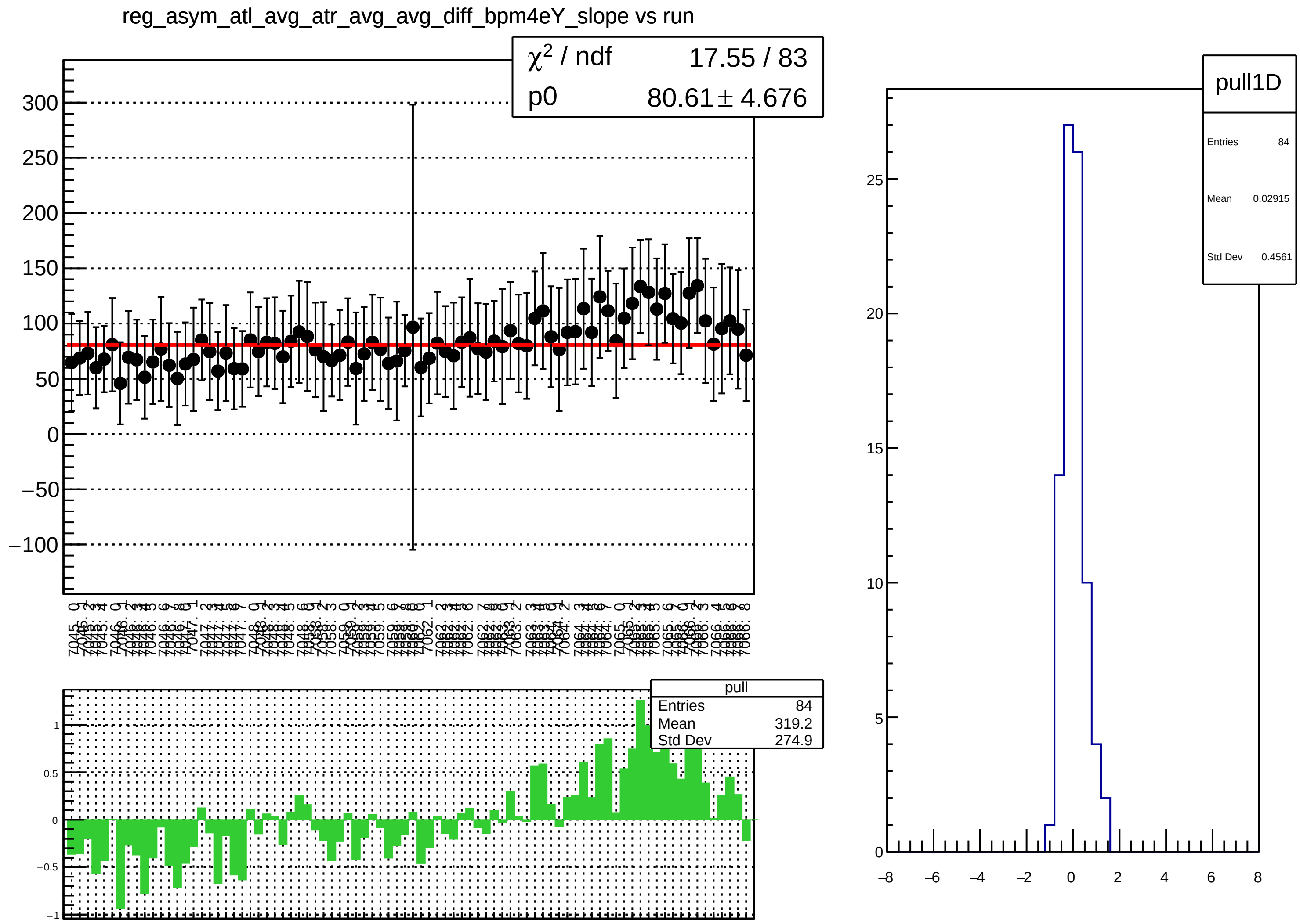
reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ2 / ndf 40.66 / 83
p0 −250.3 ± 6.298
pull
Entries 84
Mean −2062
Std Dev 2105
pull1D
Entries 84
Mean −0.006174
Std Dev 0.6957



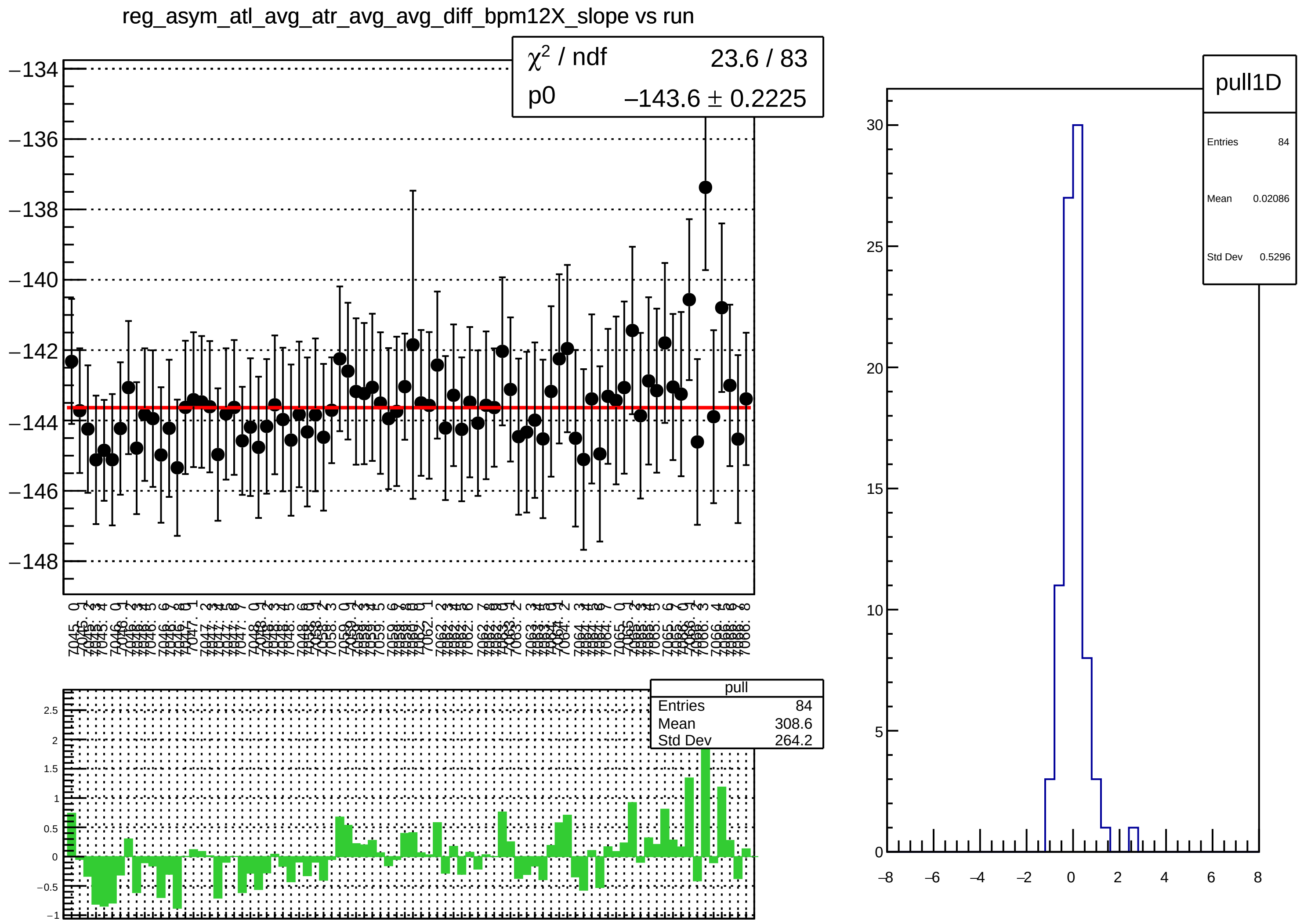
reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 12.42 / 83
p0 −9.325 ± 4.38
pull
Entries 84
Mean 299.9
Std Dev 253.6
pull1D
Entries 84
Mean −0.02218
Std Dev 0.3838

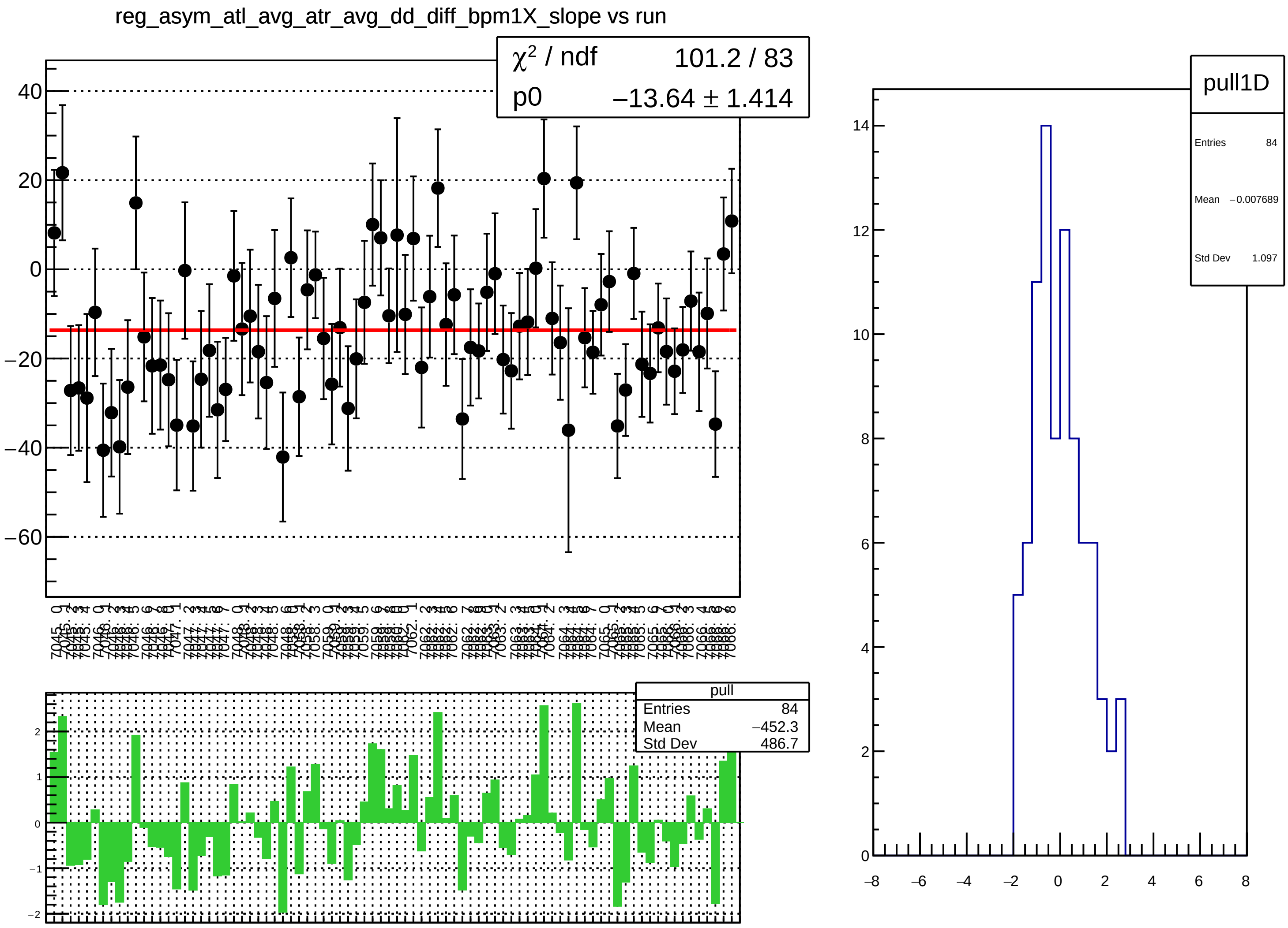


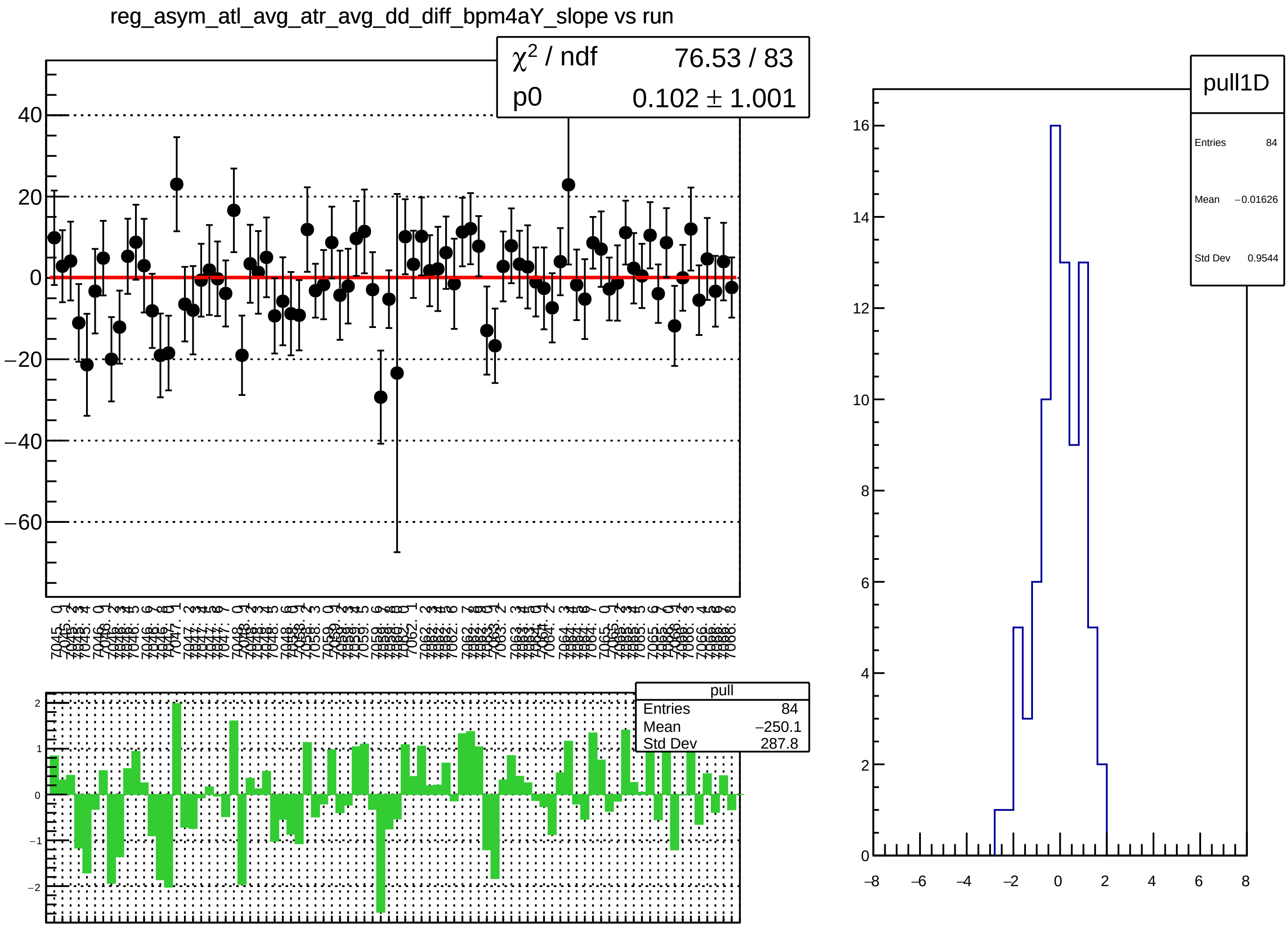
reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ2 / ndf 36.32 / 83
p0 243.6 ± 6.001
pull
Entries 84
Mean −1.812e+04
Std Dev 1.816e+04
pull1D
Entries 84
Mean 0.0006545
Std Dev 0.6576



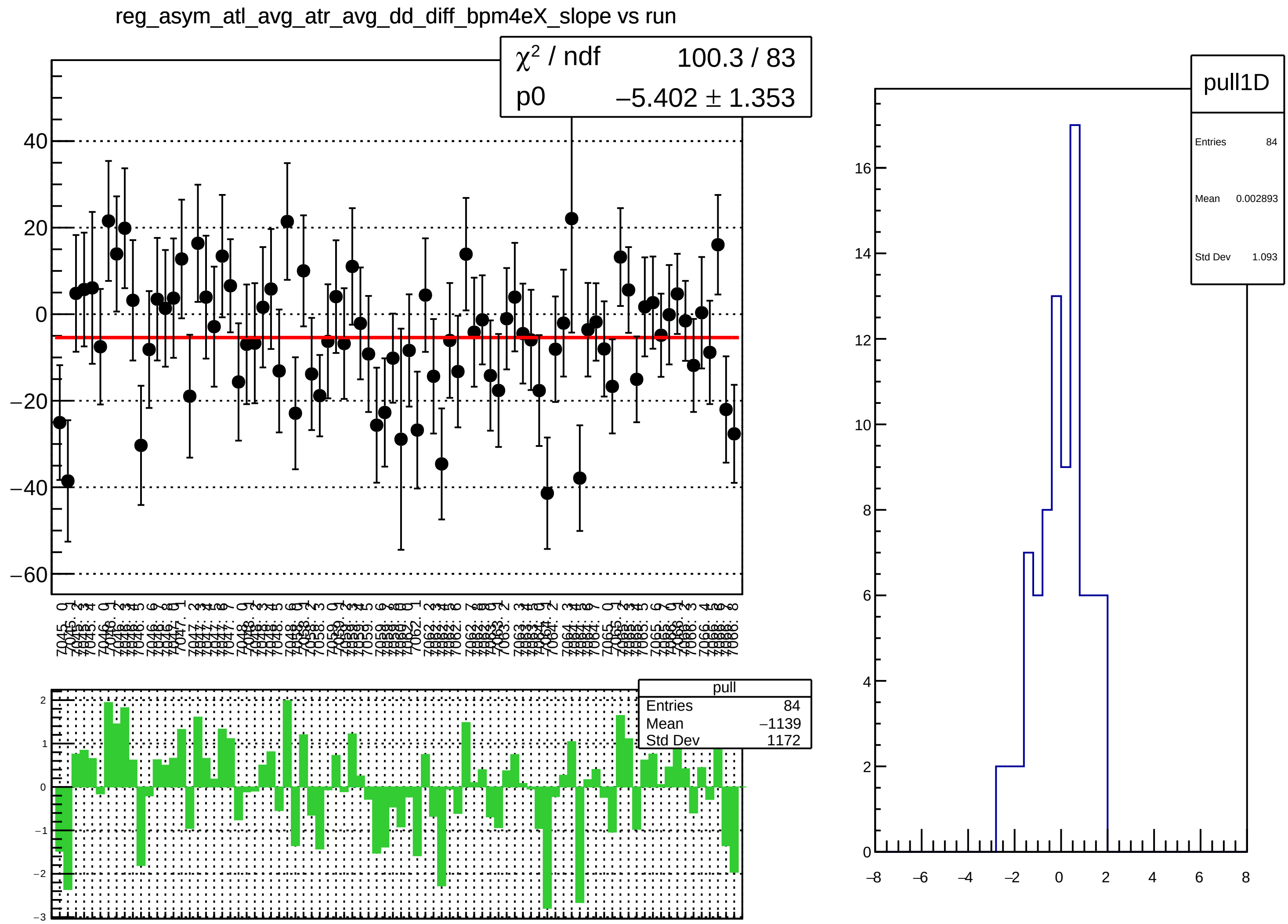
reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 17.55 / 83
p0 80.61 ± 4.676
pull
Entries 84
Mean 319.2
Std Dev 274.9
pull1D
Entries 84
Mean 0.02915
Std Dev 0.4561

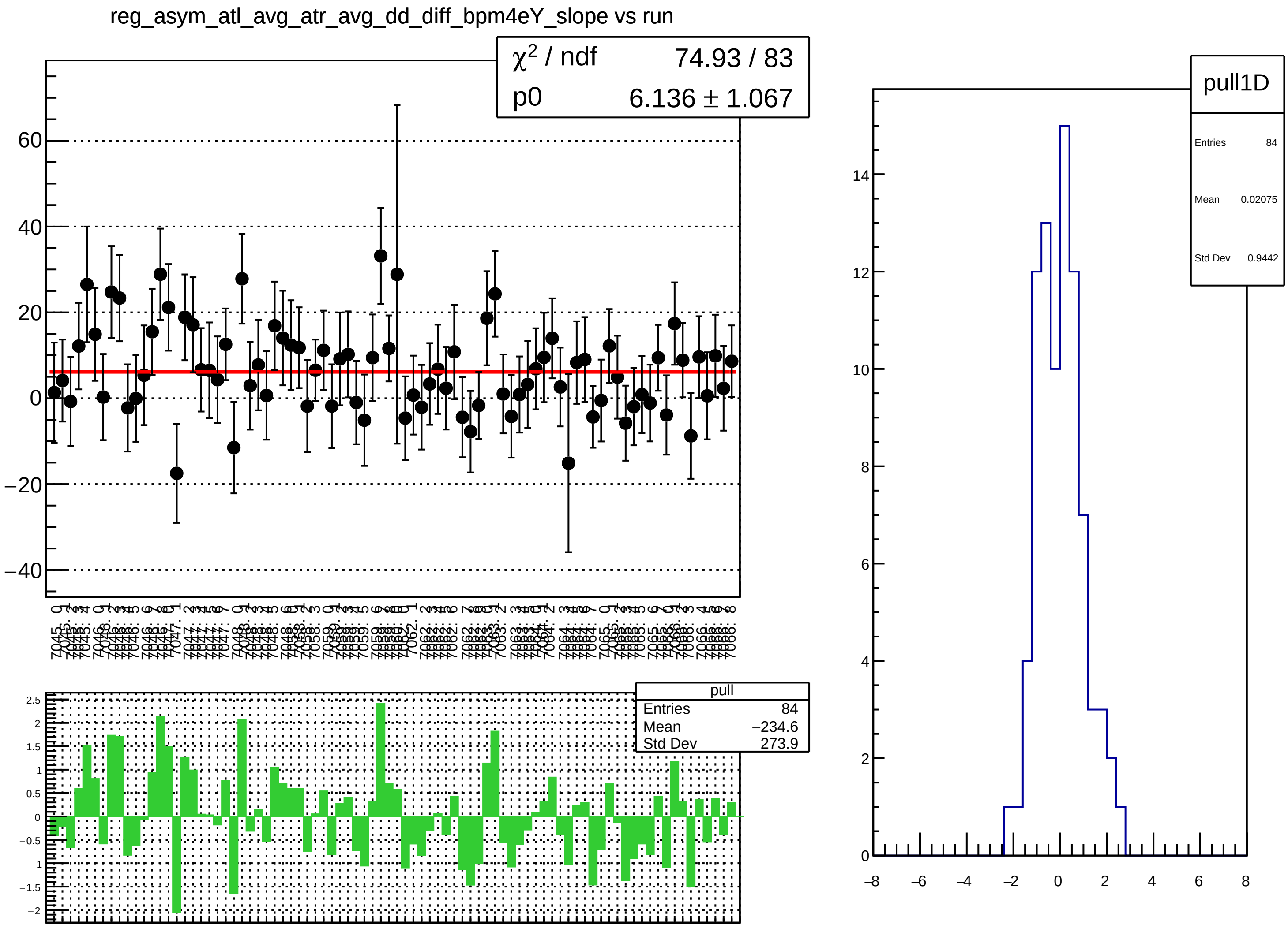

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
$\chi^2$ / ndf 23.6 / 83
p0 −143.6 ± 0.2225
pull
Entries 84
Mean 308.6
Std Dev 264.2
pull1D
Entries 84
Mean 0.02086
Std Dev 0.5296


reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 101.2 / 83
p0 −13.64 ± 1.414
pull
Entries 84
Mean −452.3
Std Dev 486.7
pull1D
Entries 84
Mean −0.007689
Std Dev 1.097

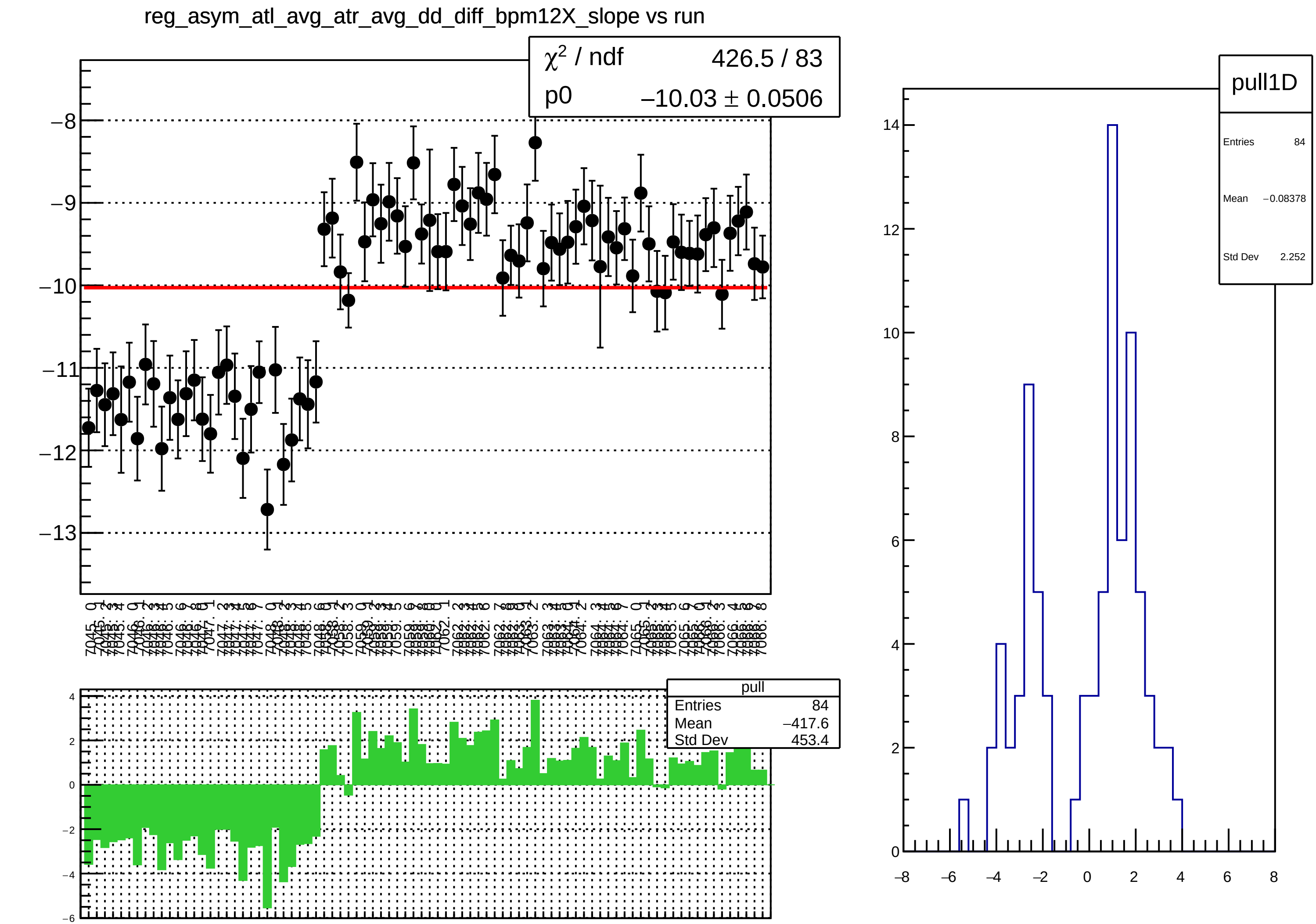


reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 76.53 / 83
p0 0.102 ± 1.001
pull
Entries 84
Mean −250.1
Std Dev 287.8
pull1D
Entries 84
Mean −0.01626
Std Dev 0.9544

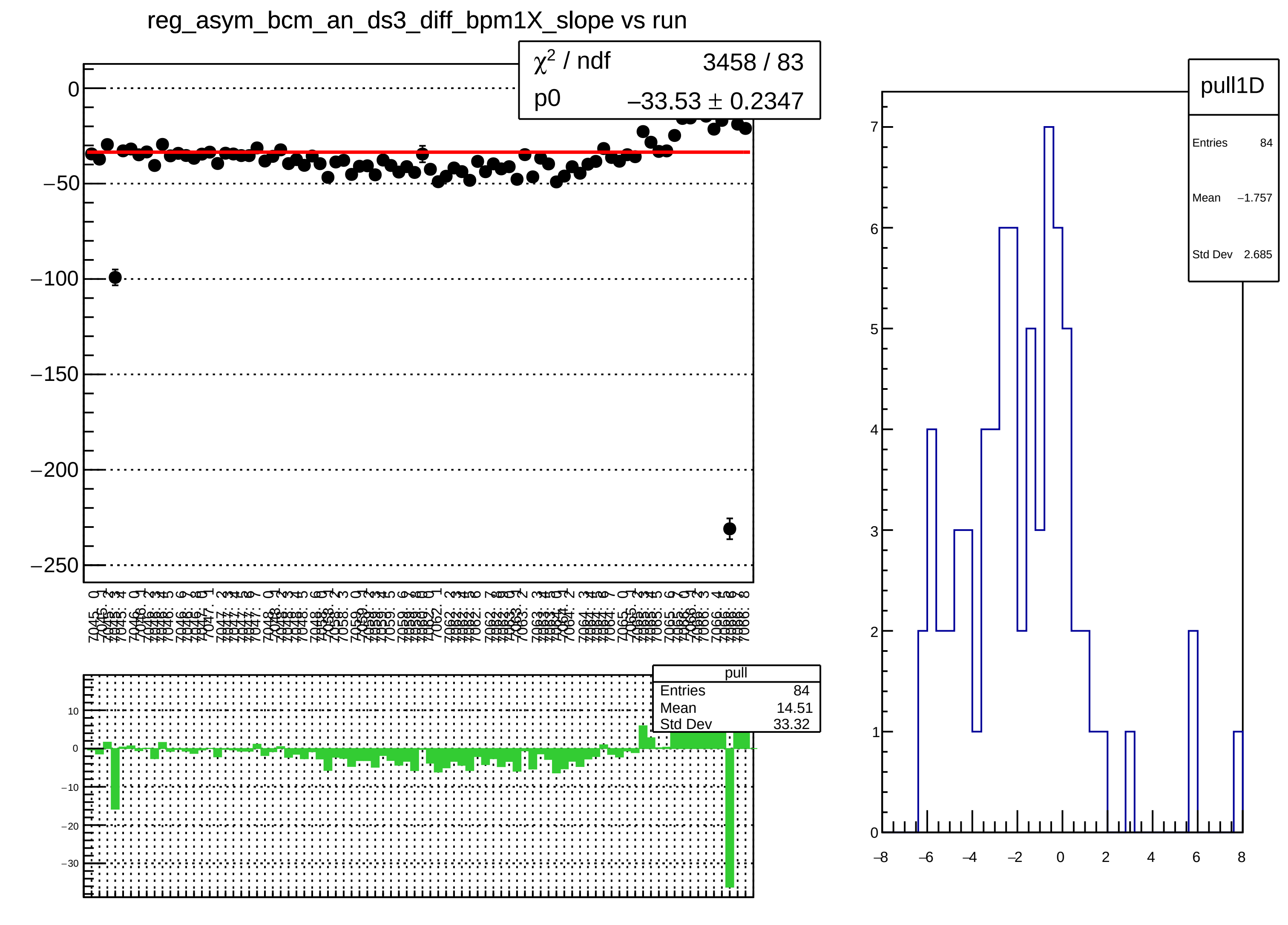

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 100.3 / 83
p0 −5.402 ± 1.353
pull
Entries 84
Mean −1139
Std Dev 1172
pull1D
Entries 84
Mean 0.002893
Std Dev 1.093



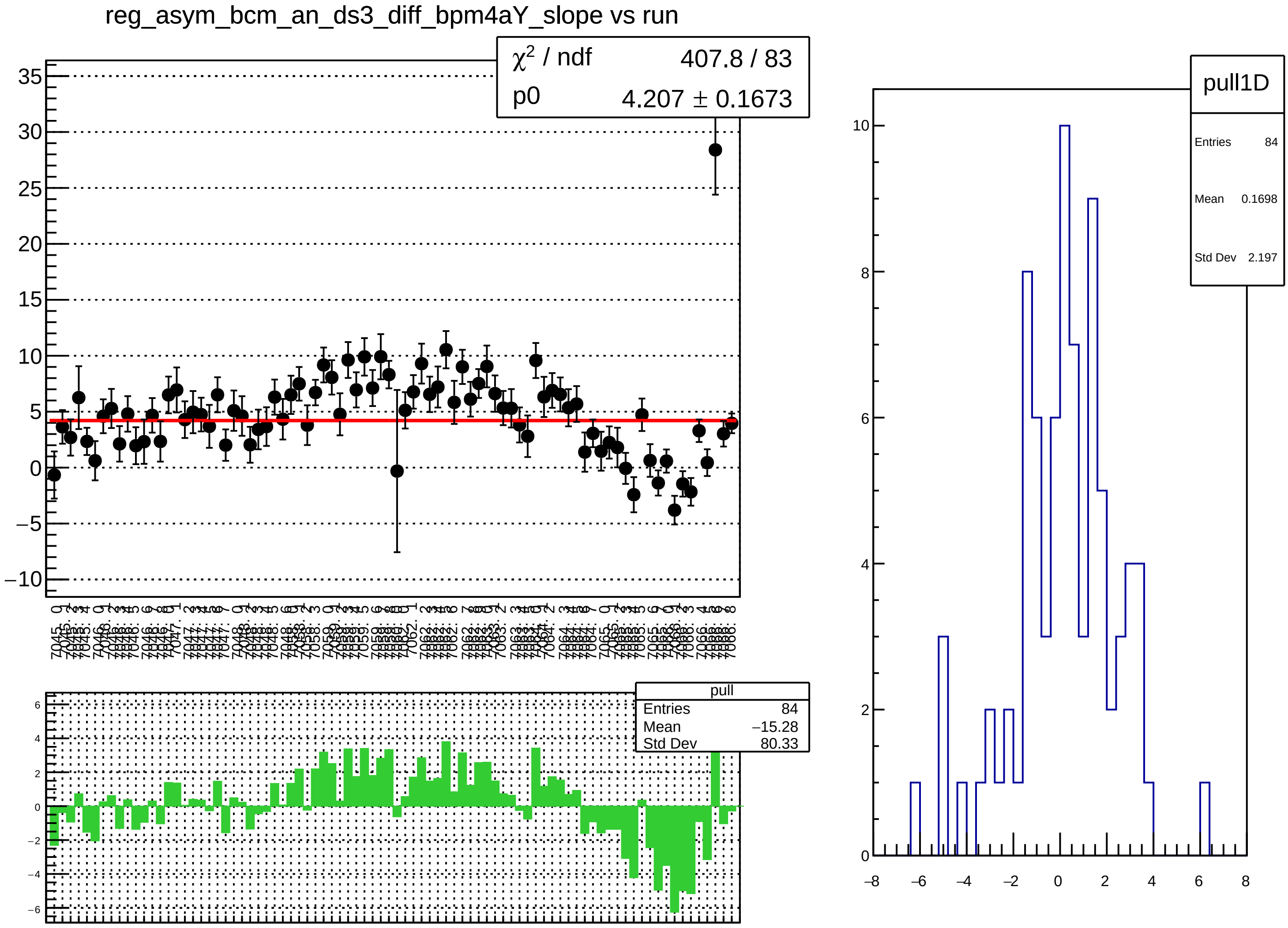
reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 74.93 / 83
p0 6.136 ± 1.067
pull
Entries 84
Mean −234.6
Std Dev 273.9
pull1D
Entries 84
Mean 0.02075
Std Dev 0.9442

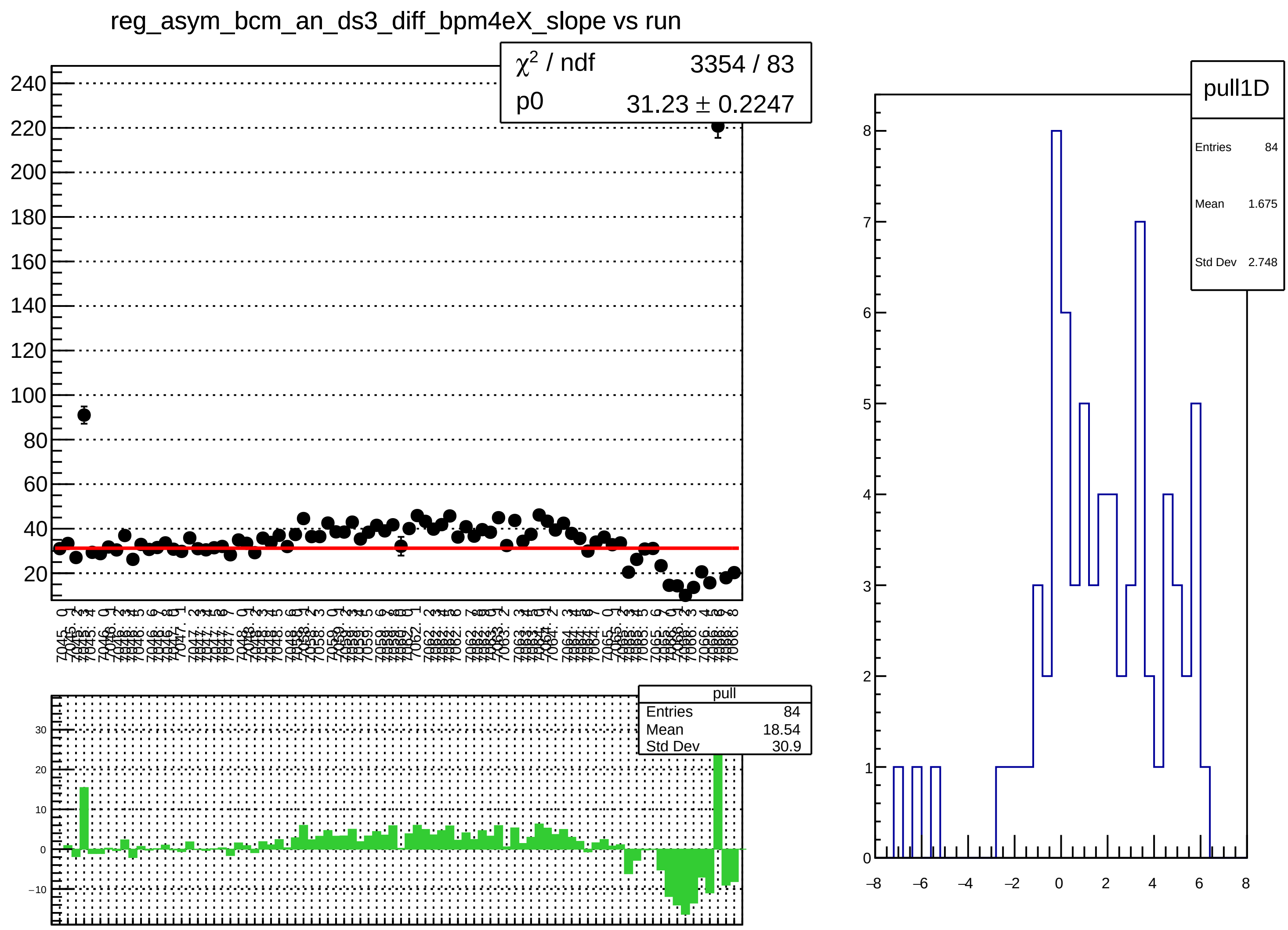


reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ2 / ndf 426.5 / 83
p0 −10.03 ± 0.0506
−8
−9
−10
−11
−12
−13
pull
Entries 84
Mean −417.6
Std Dev 453.4
4
2
0
−2
−4
−6
pull1D
Entries 84
Mean −0.08378
Std Dev 2.252
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



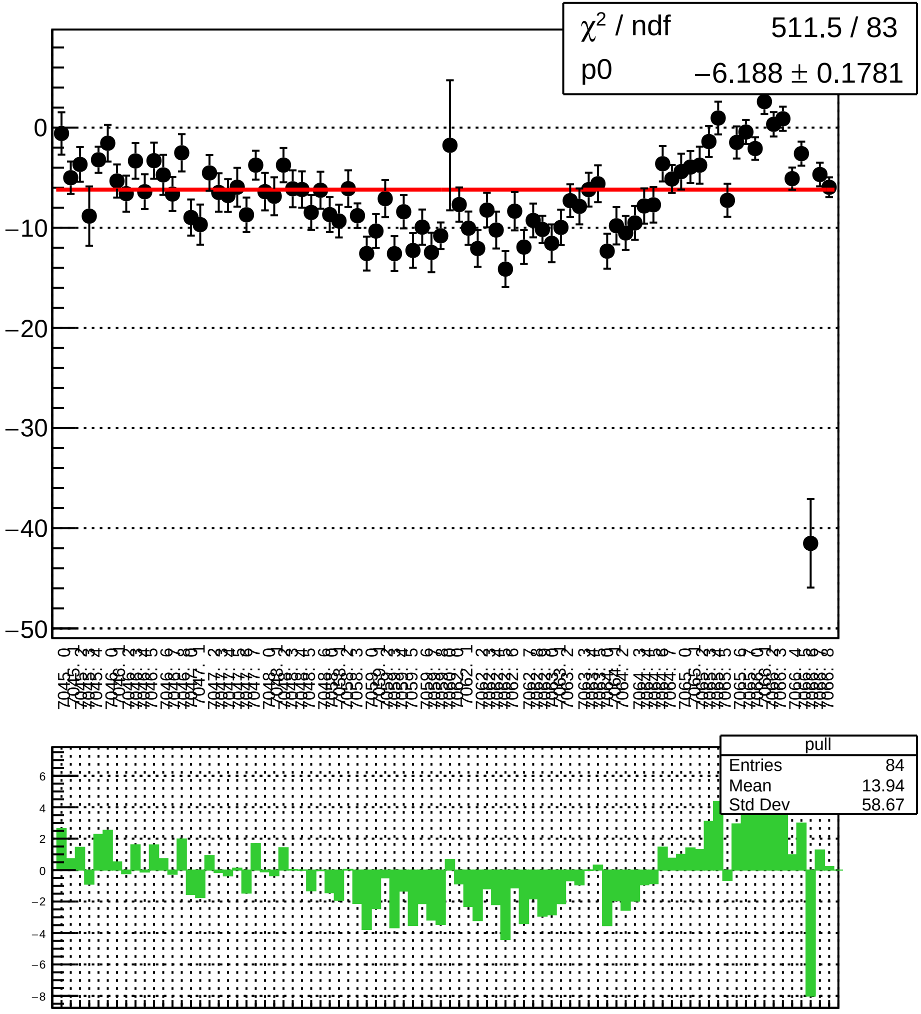
reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ2 / ndf 3458 / 83
p0 −33.53 ± 0.2347
pull
Entries 84
Mean 14.51
Std Dev 33.32
pull1D
Entries 84
Mean −1.757
Std Dev 2.685

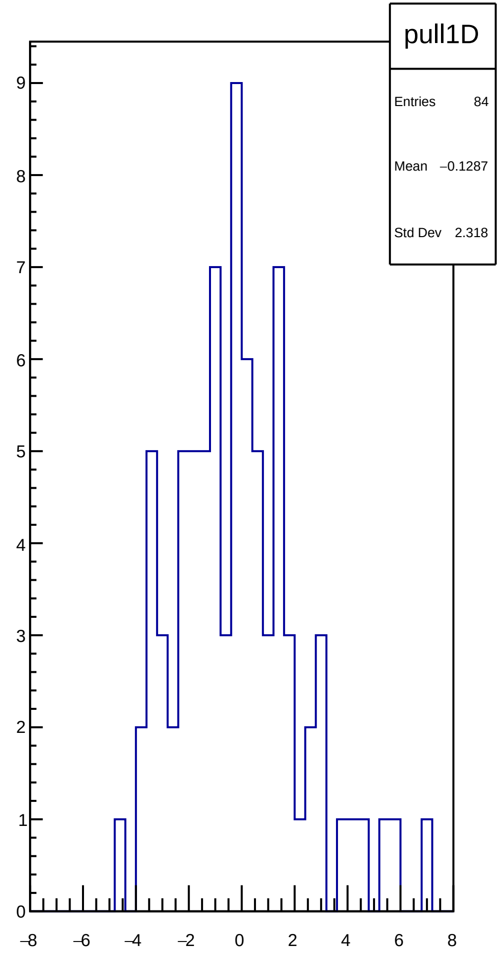

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ2 / ndf 407.8 / 83
p0 4.207 ± 0.1673
pull
Entries 84
Mean −15.28
Std Dev 80.33
pull1D
Entries 84
Mean 0.1698
Std Dev 2.197



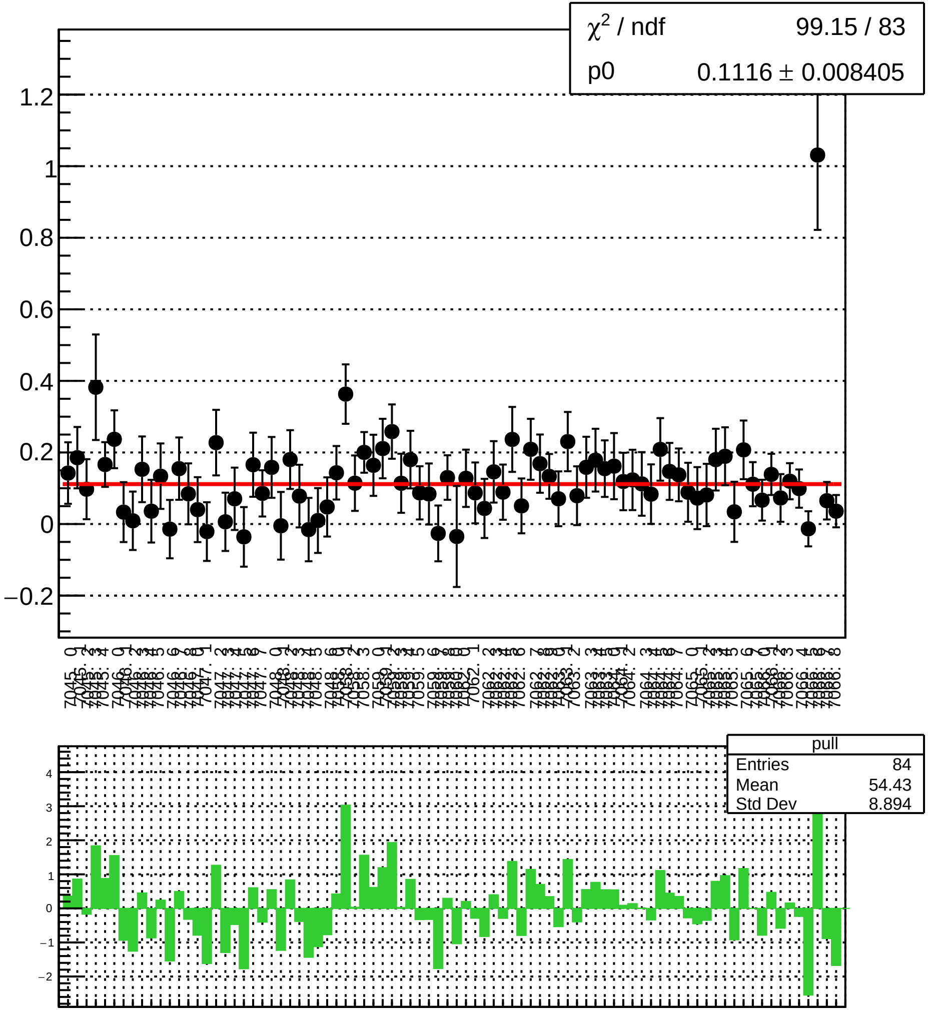
reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 3354 / 83
p0 31.23 ± 0.2247
pull
Entries 84
Mean 18.54
Std Dev 30.9
pull1D
Entries 84
Mean 1.675
Std Dev 2.748

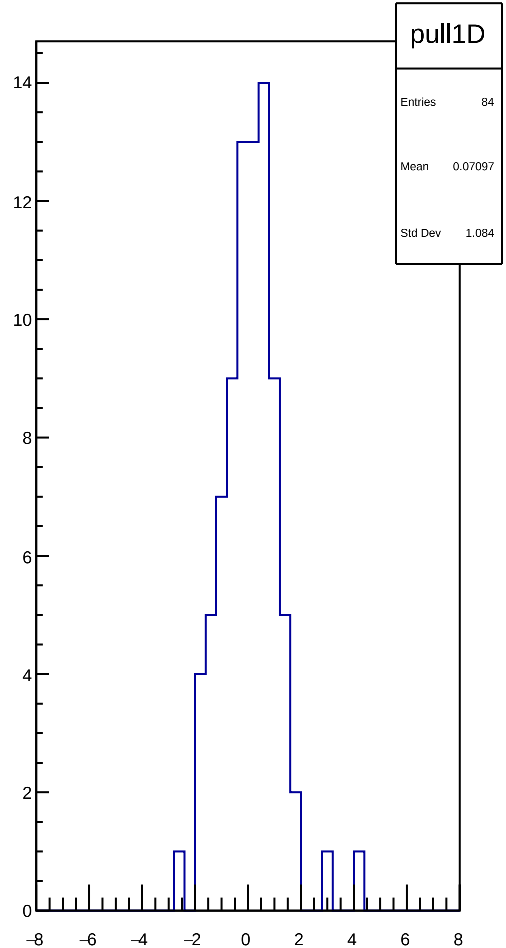
reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run

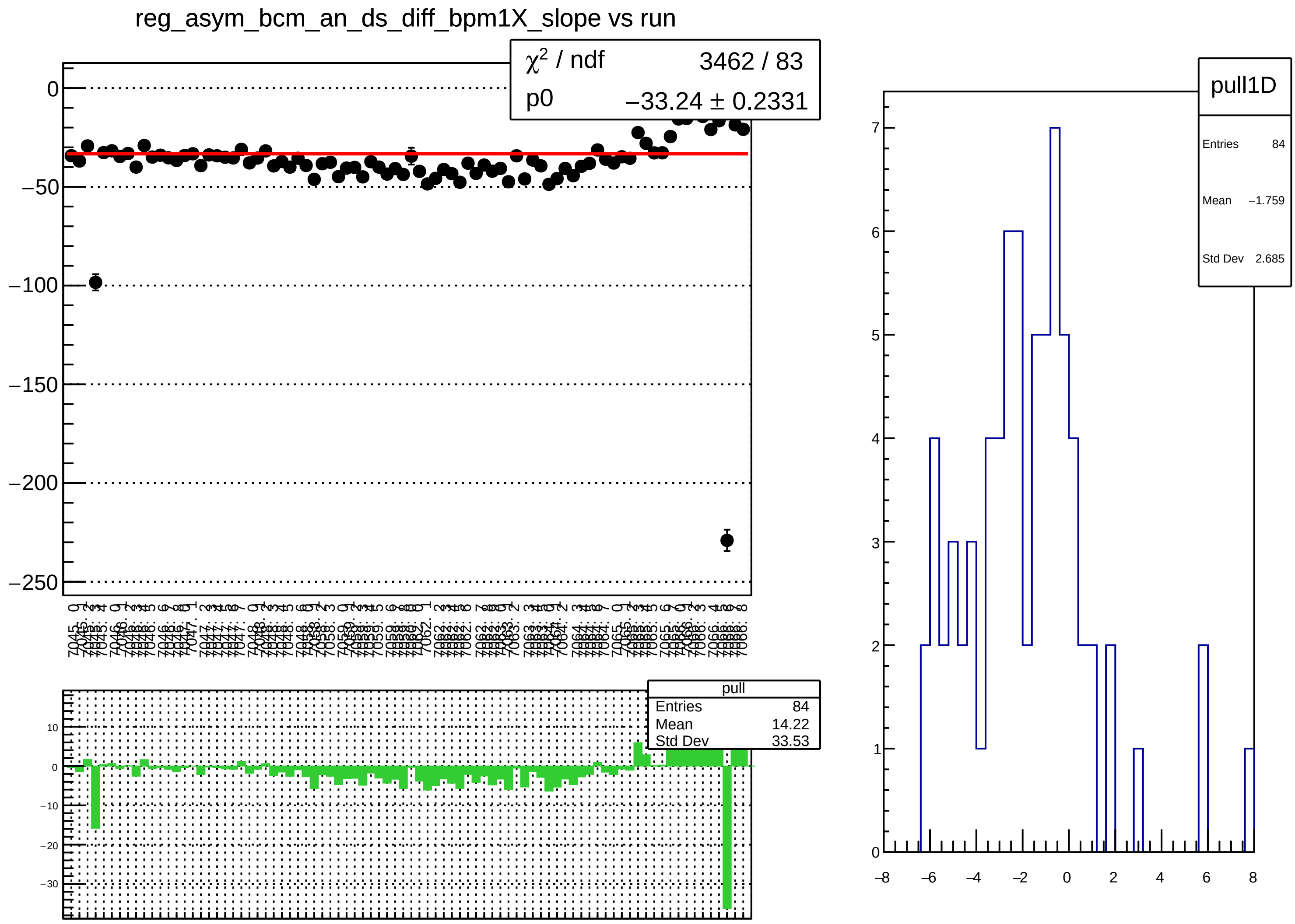


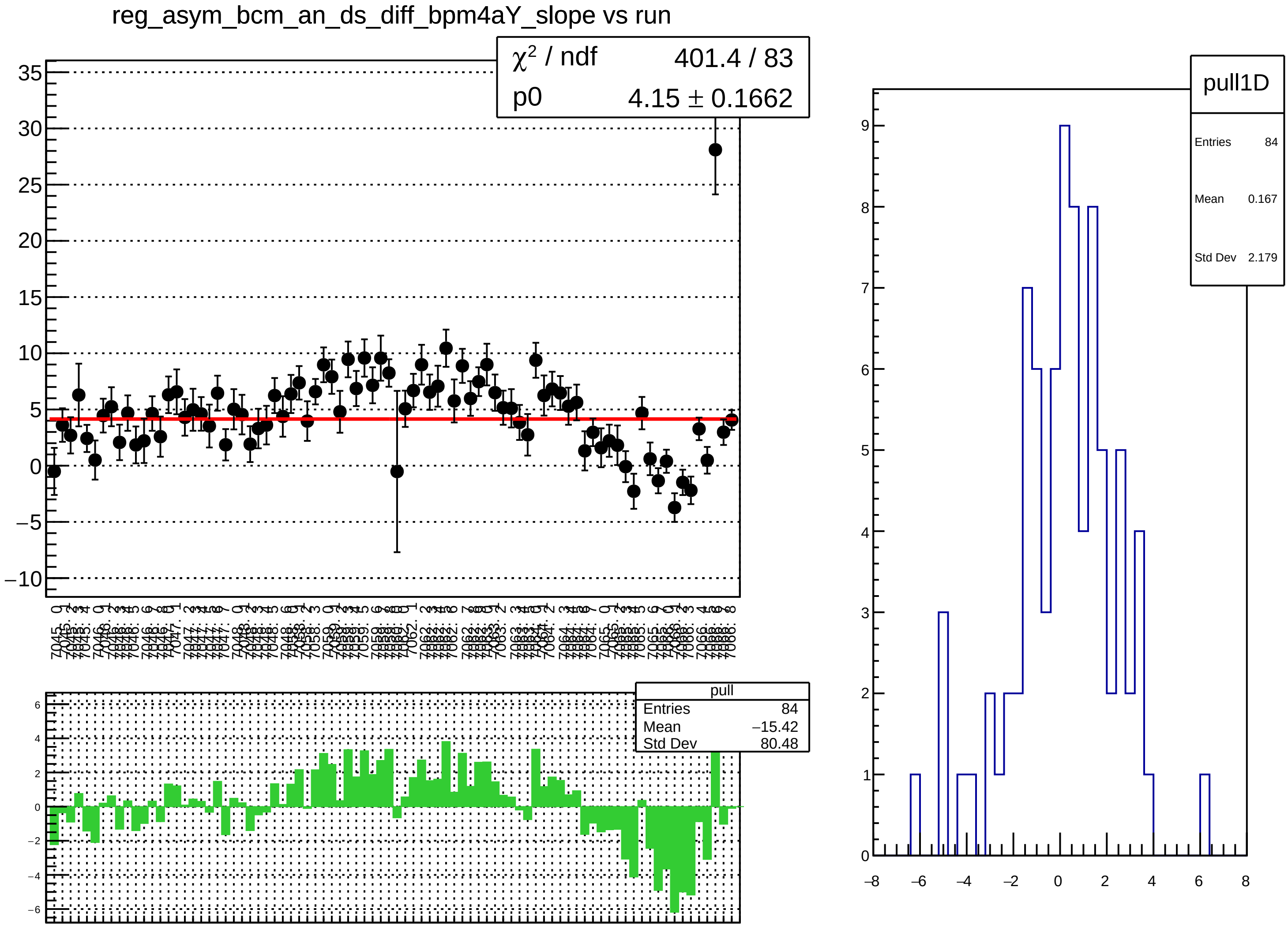



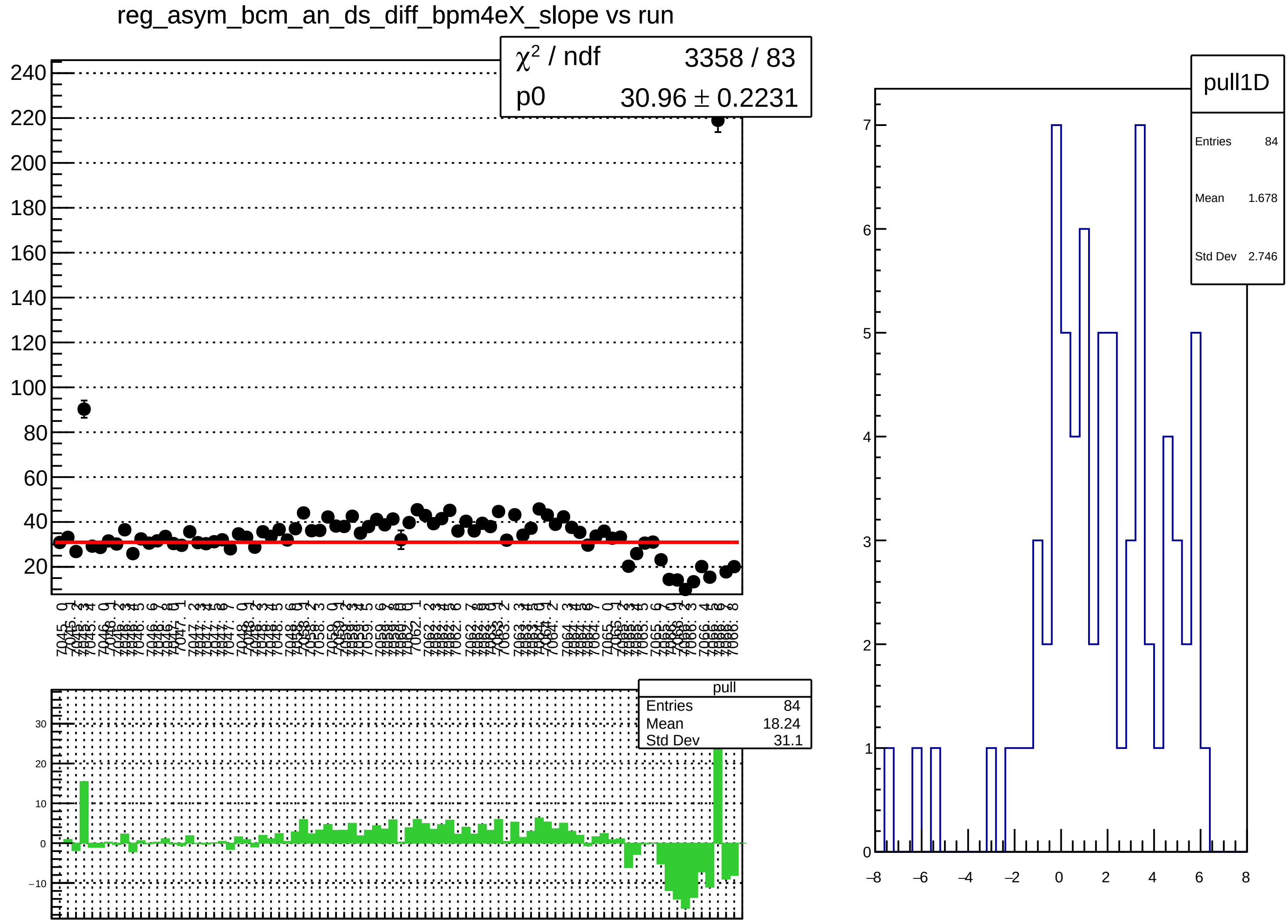
reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run



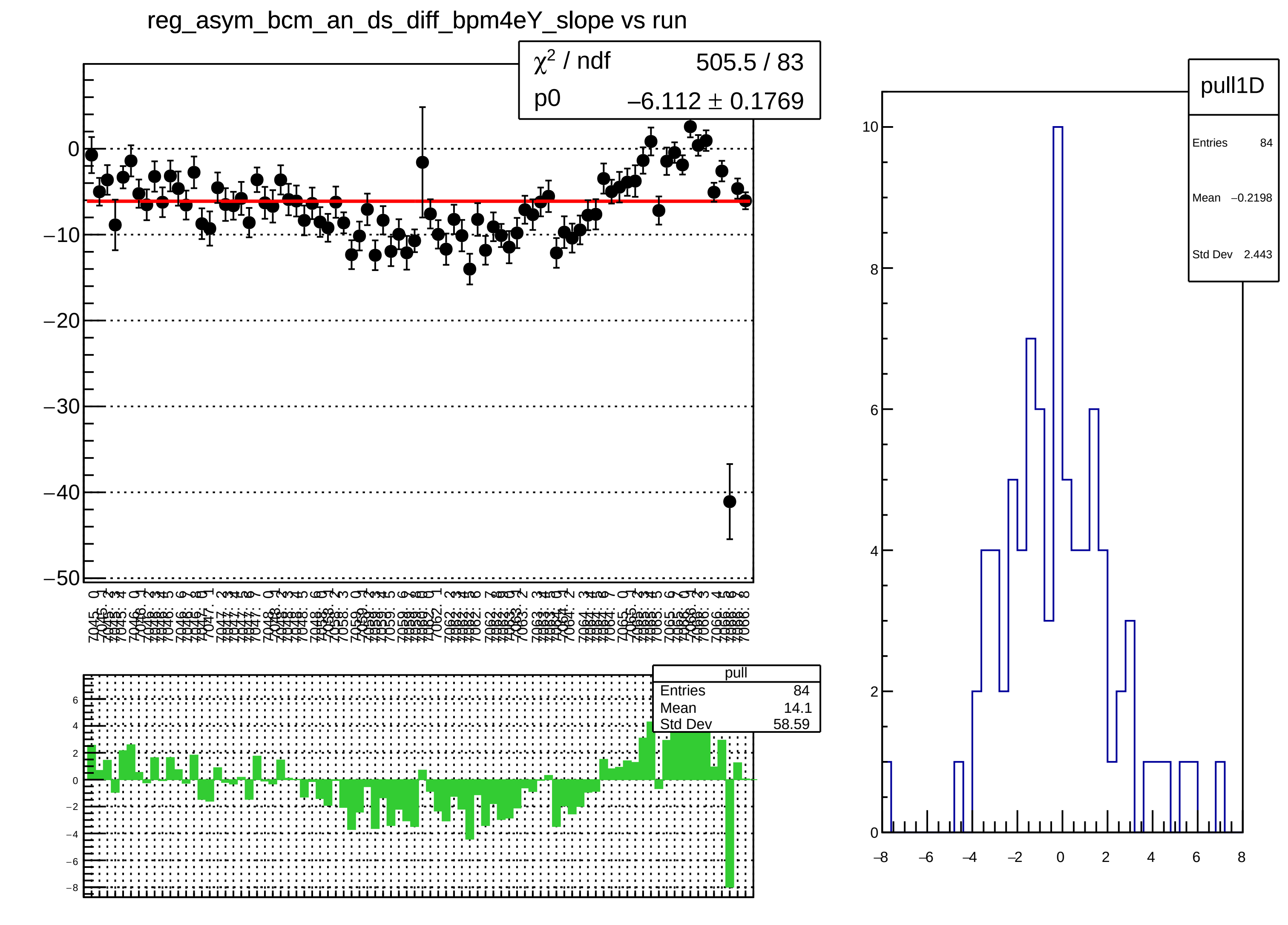



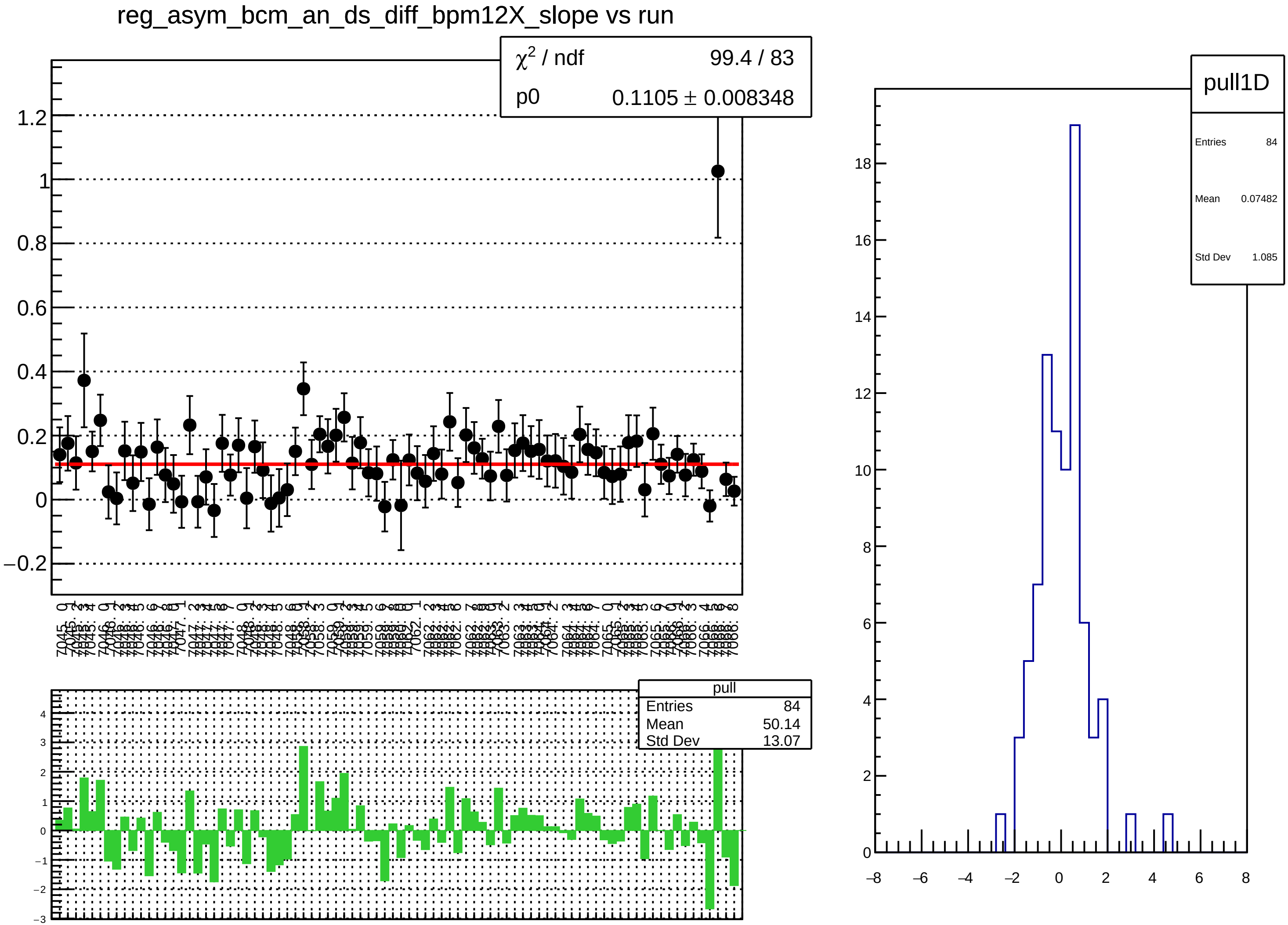

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
$\chi^2$ / ndf 3462 / 83
p0 −33.24 ± 0.2331
pull
Entries 84
Mean 14.22
Std Dev 33.53
pull1D
Entries 84
Mean −1.759
Std Dev 2.685


reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 401.4 / 83
p0 4.15 ± 0.1662
pull
Entries 84
Mean −15.42
Std Dev 80.48
pull1D
Entries 84
Mean 0.167
Std Dev 2.179

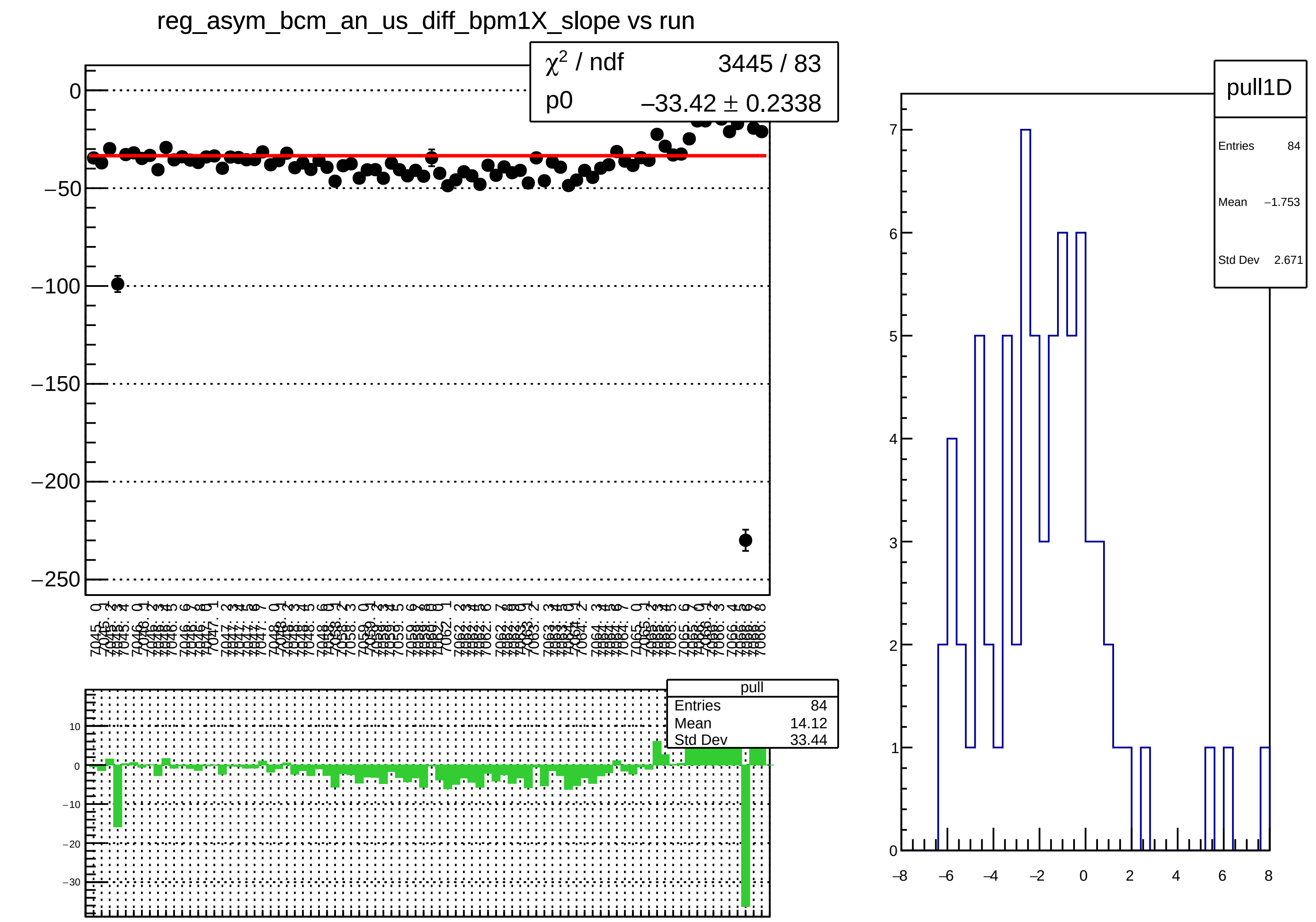


reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 3358 / 83
p0 30.96 ± 0.2231
pull
Entries 84
Mean 18.24
Std Dev 31.1
pull1D
Entries 84
Mean 1.678
Std Dev 2.746

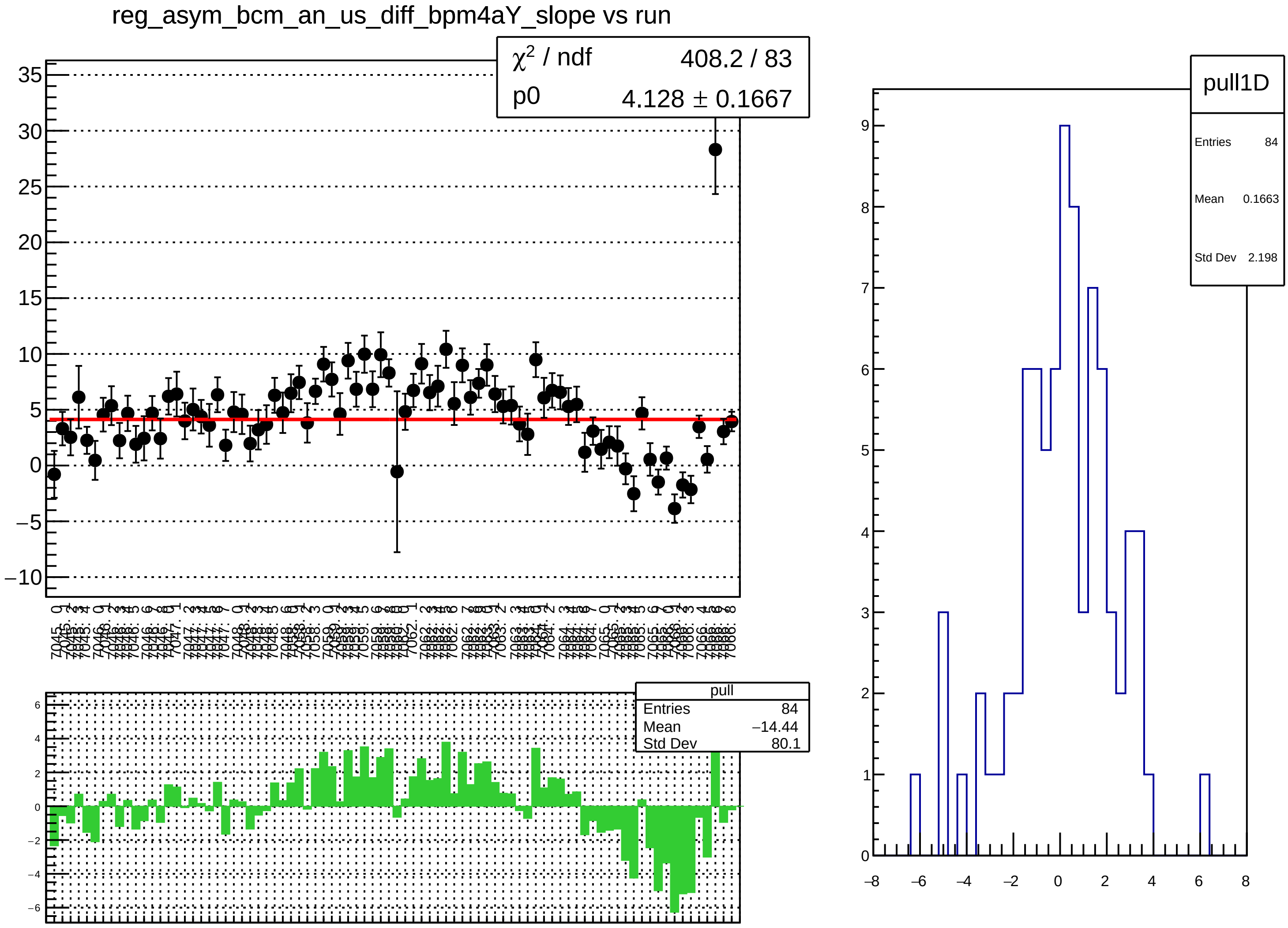

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 505.5 / 83
p0 −6.112 ± 0.1769
pull
Entries 84
Mean 14.1
Std Dev 58.59
pull1D
Entries 84
Mean −0.2198
Std Dev 2.443



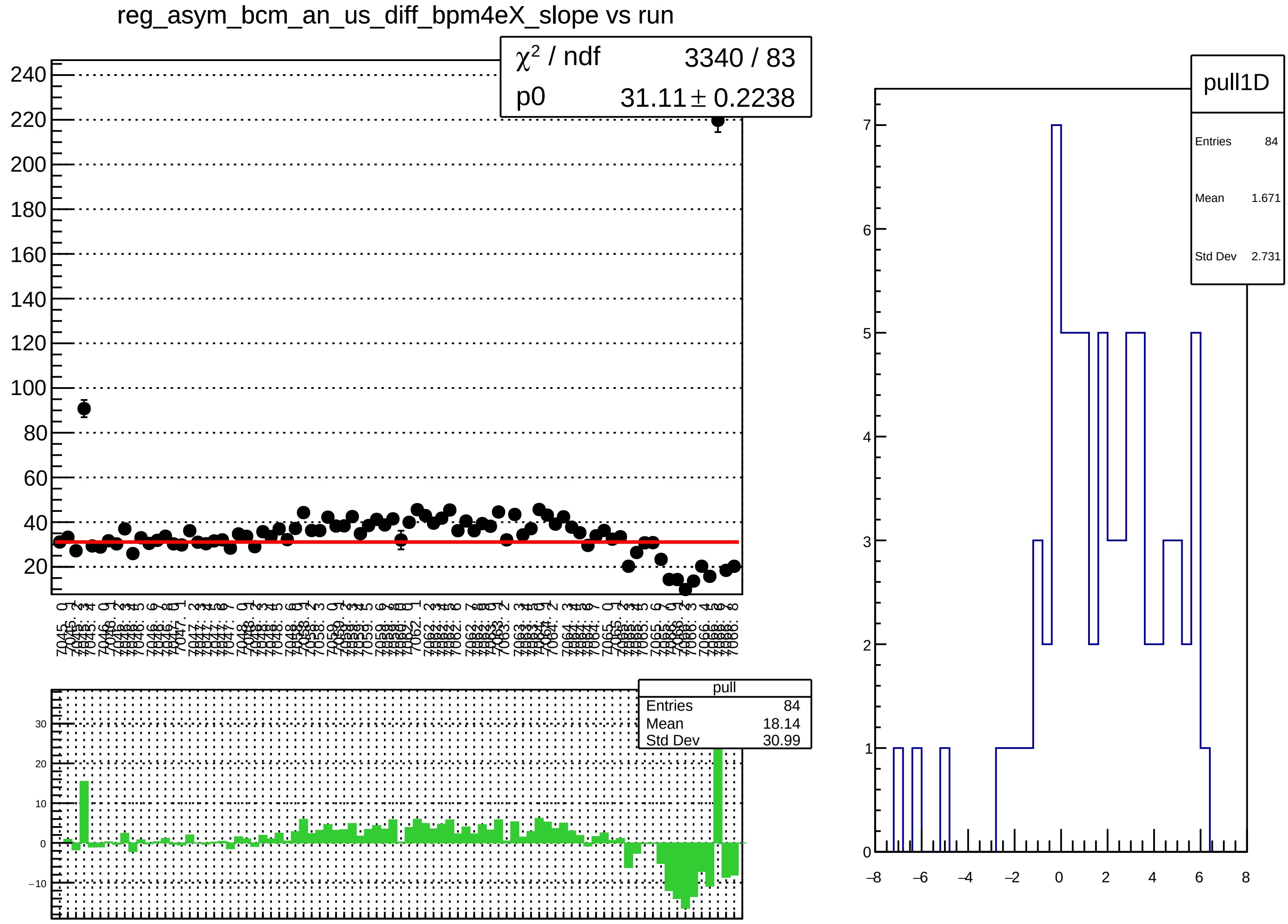
reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
$\chi^2$ / ndf 99.4 / 83
p0 0.1105 ± 0.008348
pull
Entries 84
Mean 50.14
Std Dev 13.07
pull1D
Entries 84
Mean 0.07482
Std Dev 1.085



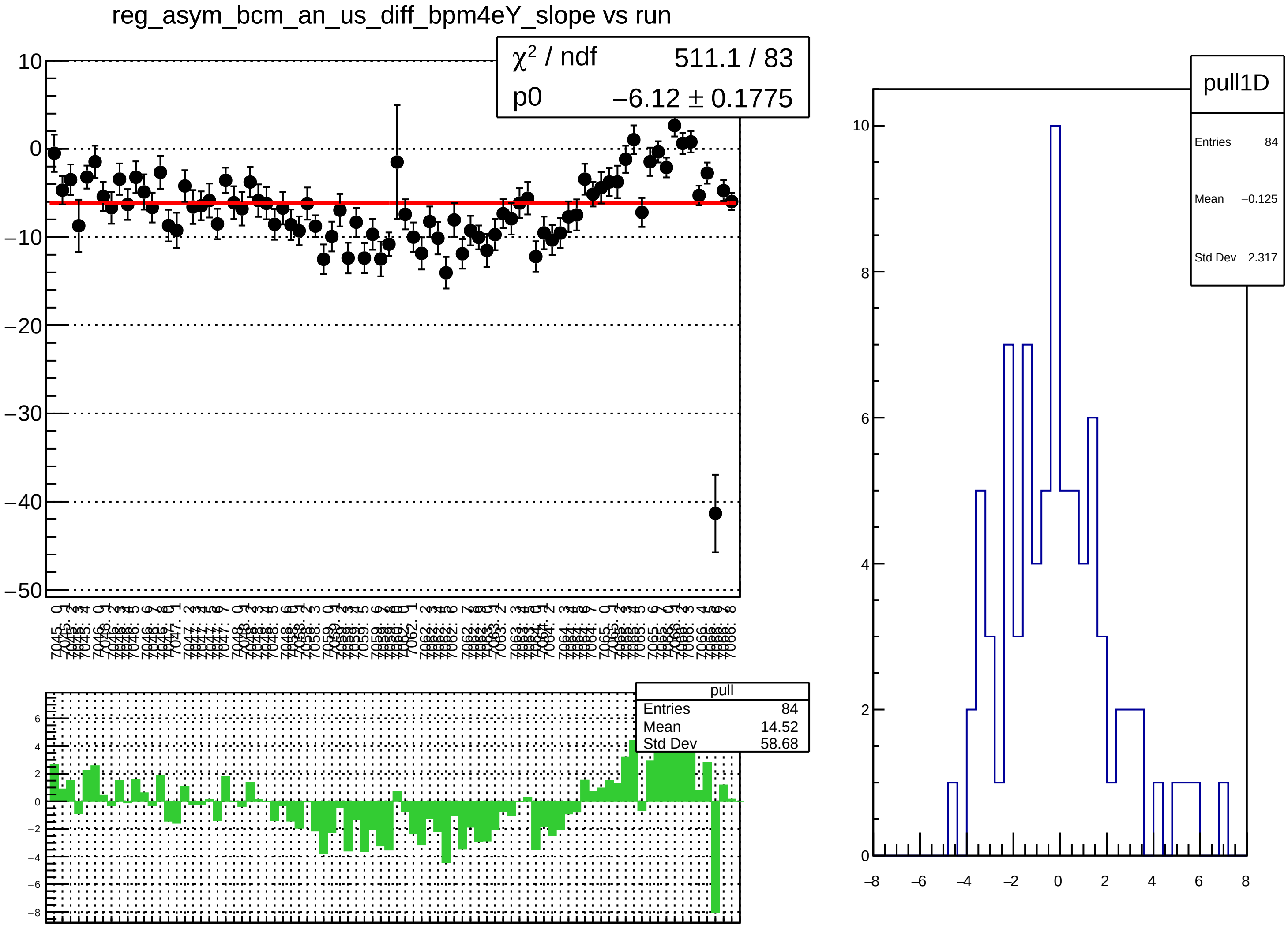
reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 3445 / 83
p0 −33.42 ± 0.2338
pull
Entries 84
Mean 14.12
Std Dev 33.44
pull1D
Entries 84
Mean −1.753
Std Dev 2.671



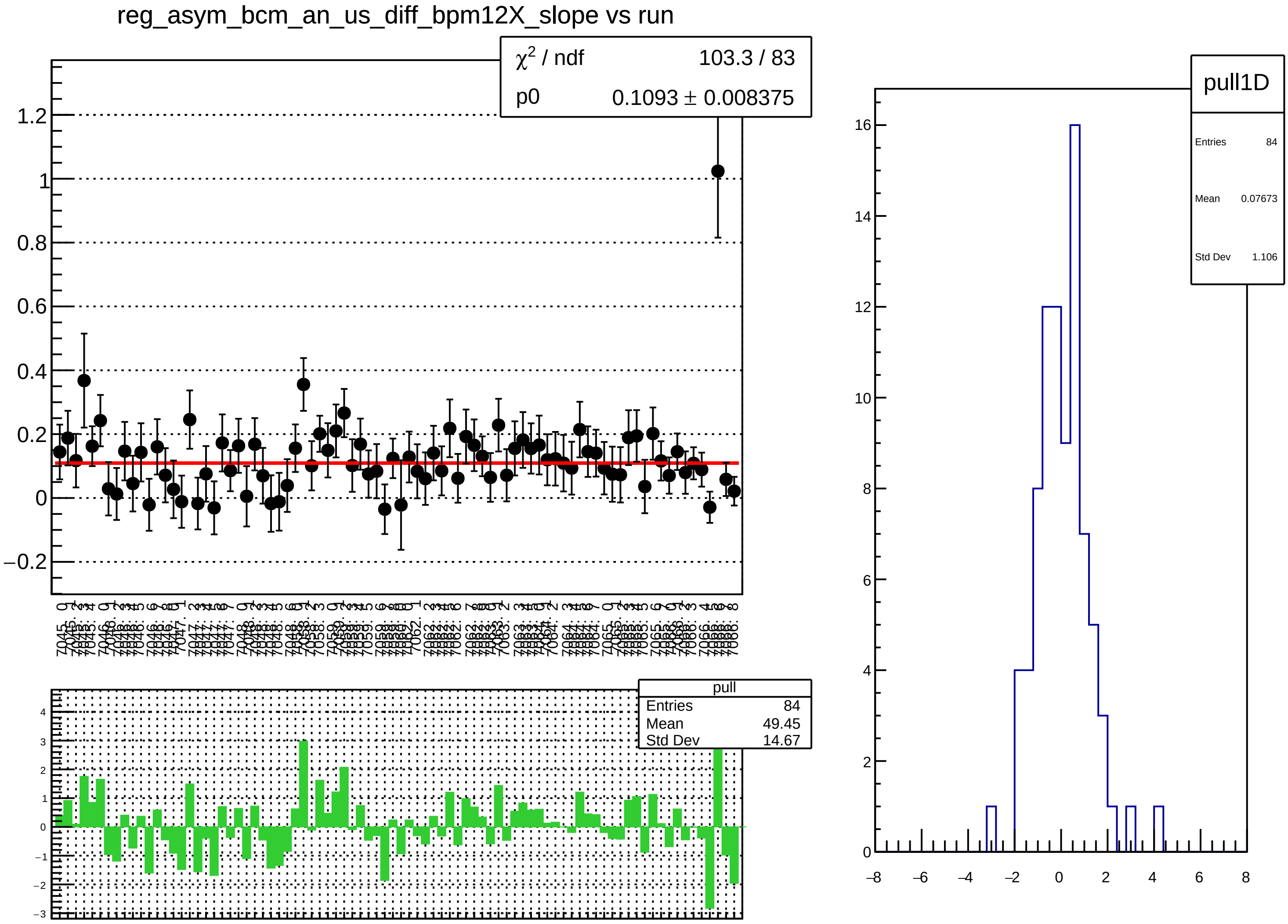
reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ2 / ndf 408.2 / 83
p0 4.128 ± 0.1667
pull
Entries 84
Mean −14.44
Std Dev 80.1
pull1D
Entries 84
Mean 0.1663
Std Dev 2.198

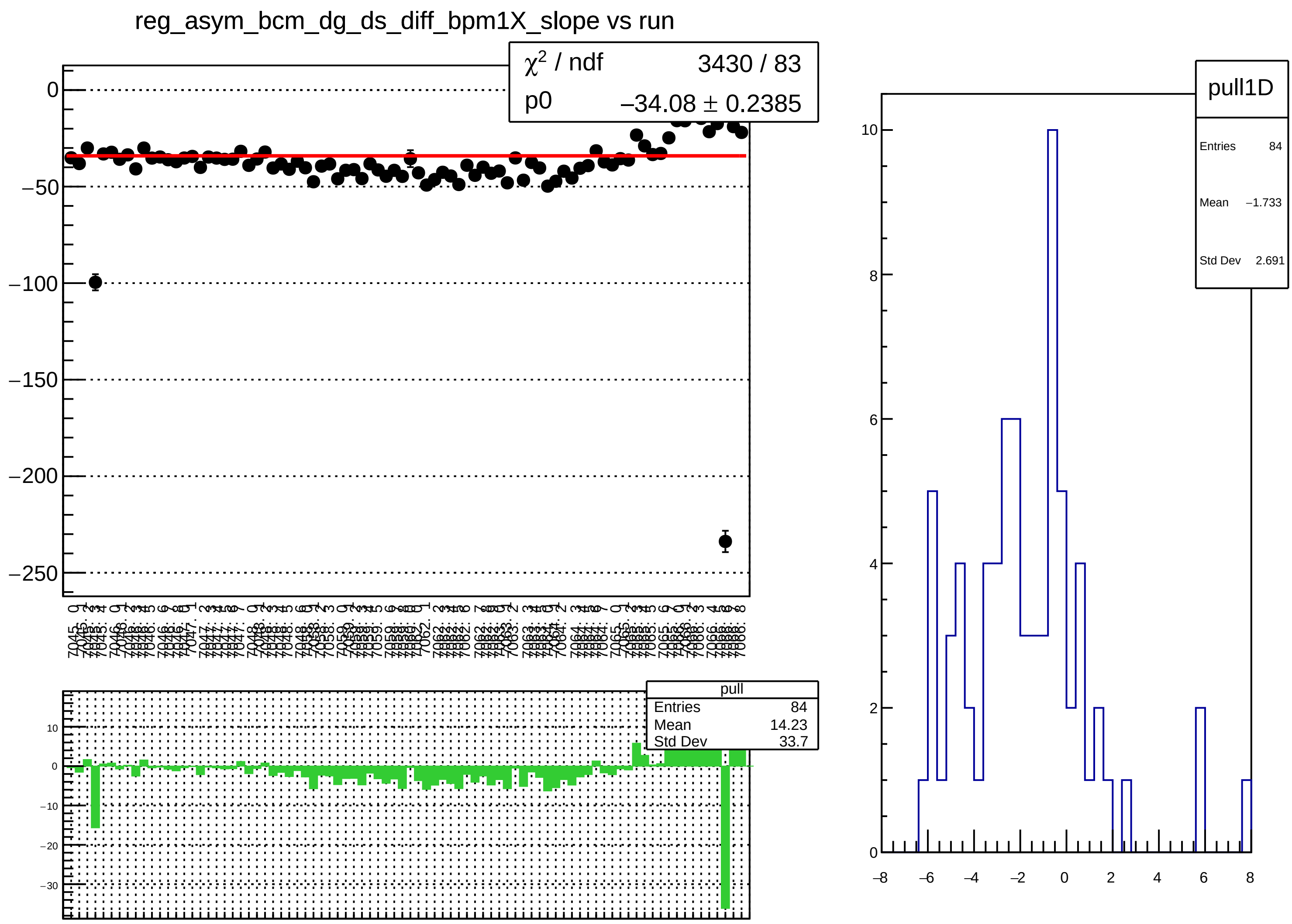


reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 3340 / 83
p0 31.11 ± 0.2238
pull
Entries 84
Mean 18.14
Std Dev 30.99
pull1D
Entries 84
Mean 1.671
Std Dev 2.731

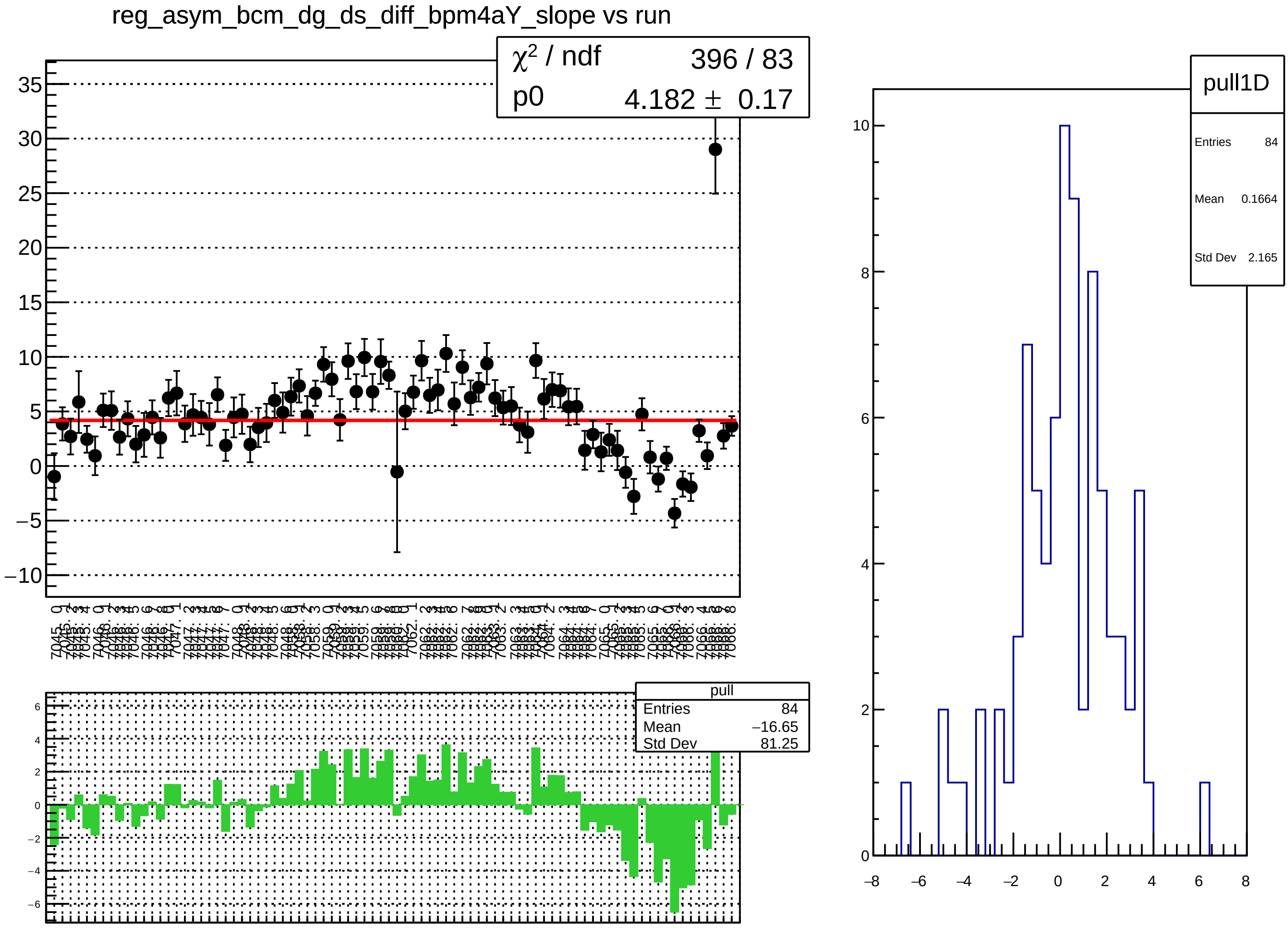


reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ2 / ndf 511.1 / 83
p0 −6.12 ± 0.1775
pull
Entries 84
Mean 14.52
Std Dev 58.68
pull1D
Entries 84
Mean −0.125
Std Dev 2.317

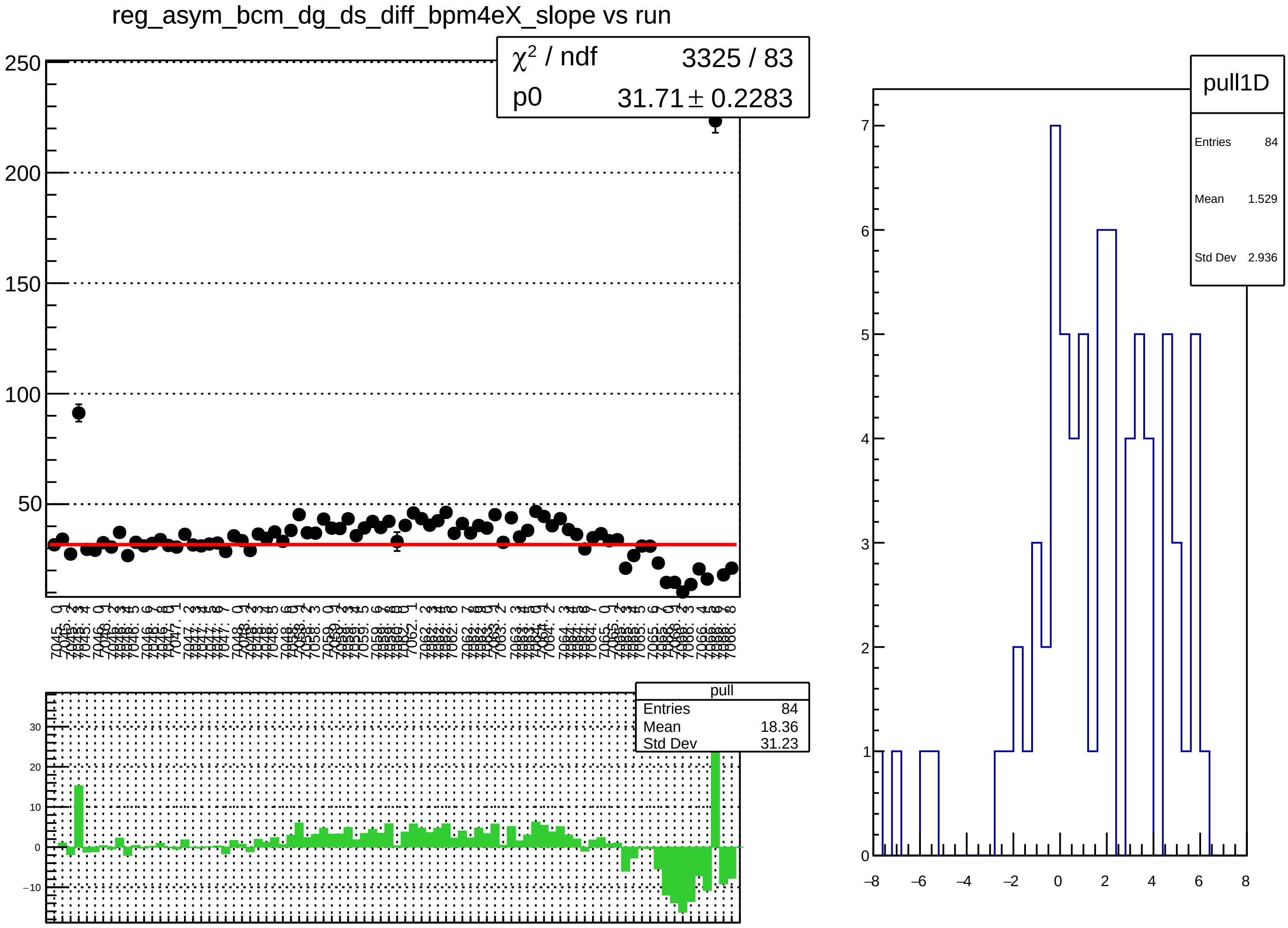

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
$\chi^2$ / ndf 103.3 / 83
p0 0.1093 ± 0.008375
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
pull
Entries 84
Mean 49.45
Std Dev 14.67
4
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.07673
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



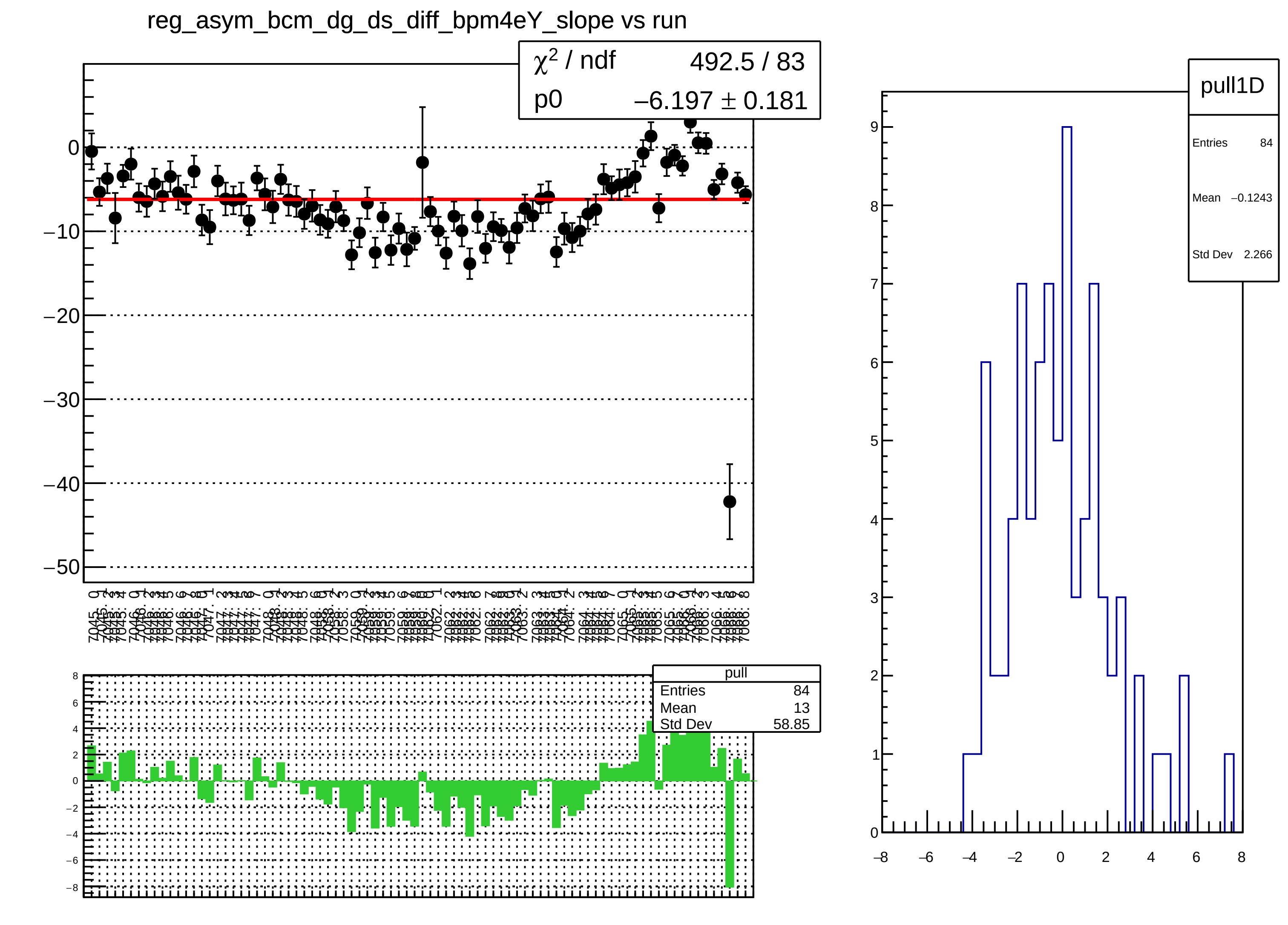
reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ2 / ndf 3430 / 83
p0 −34.08 ± 0.2385
pull
Entries 84
Mean 14.23
Std Dev 33.7
pull1D
Entries 84
Mean −1.733
Std Dev 2.691

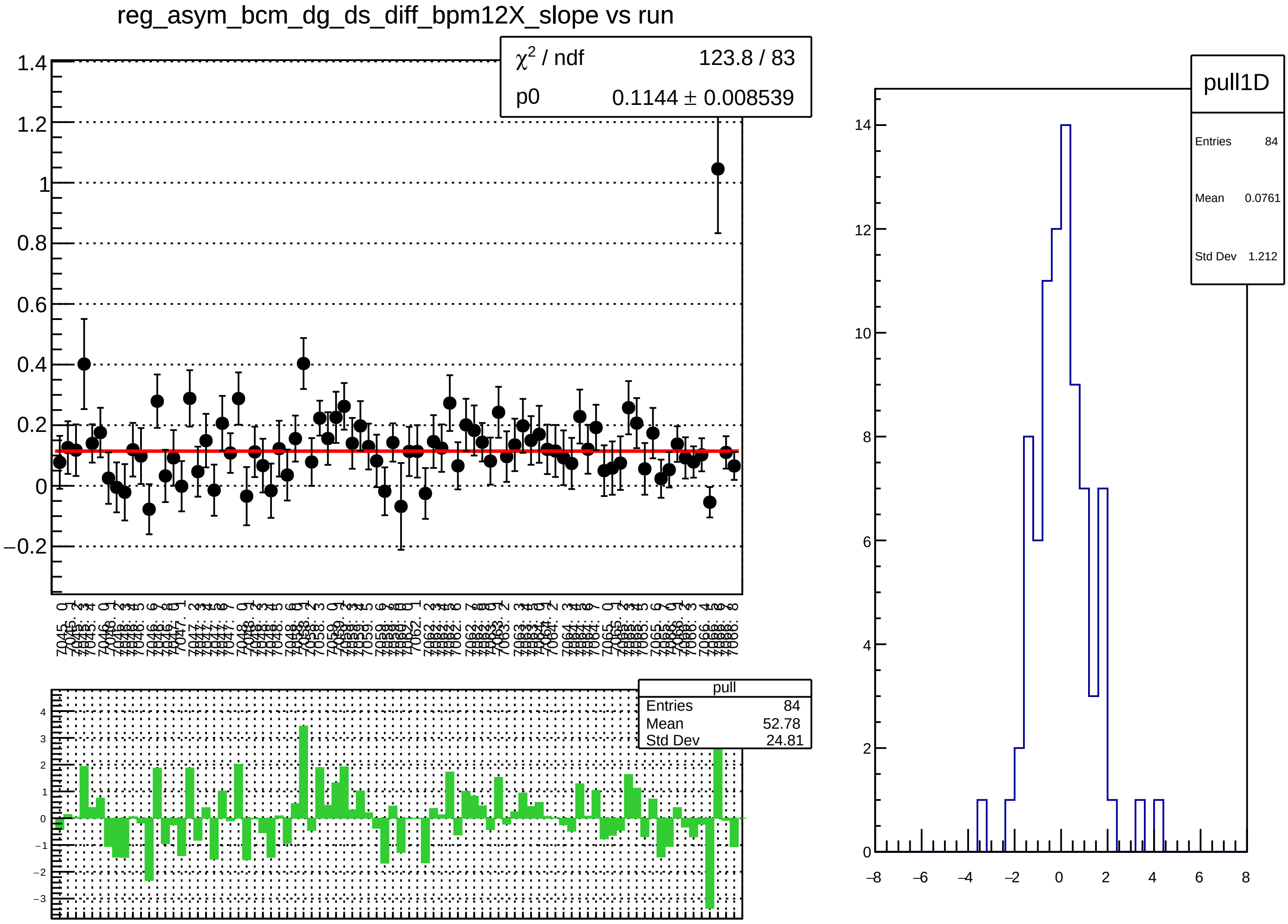


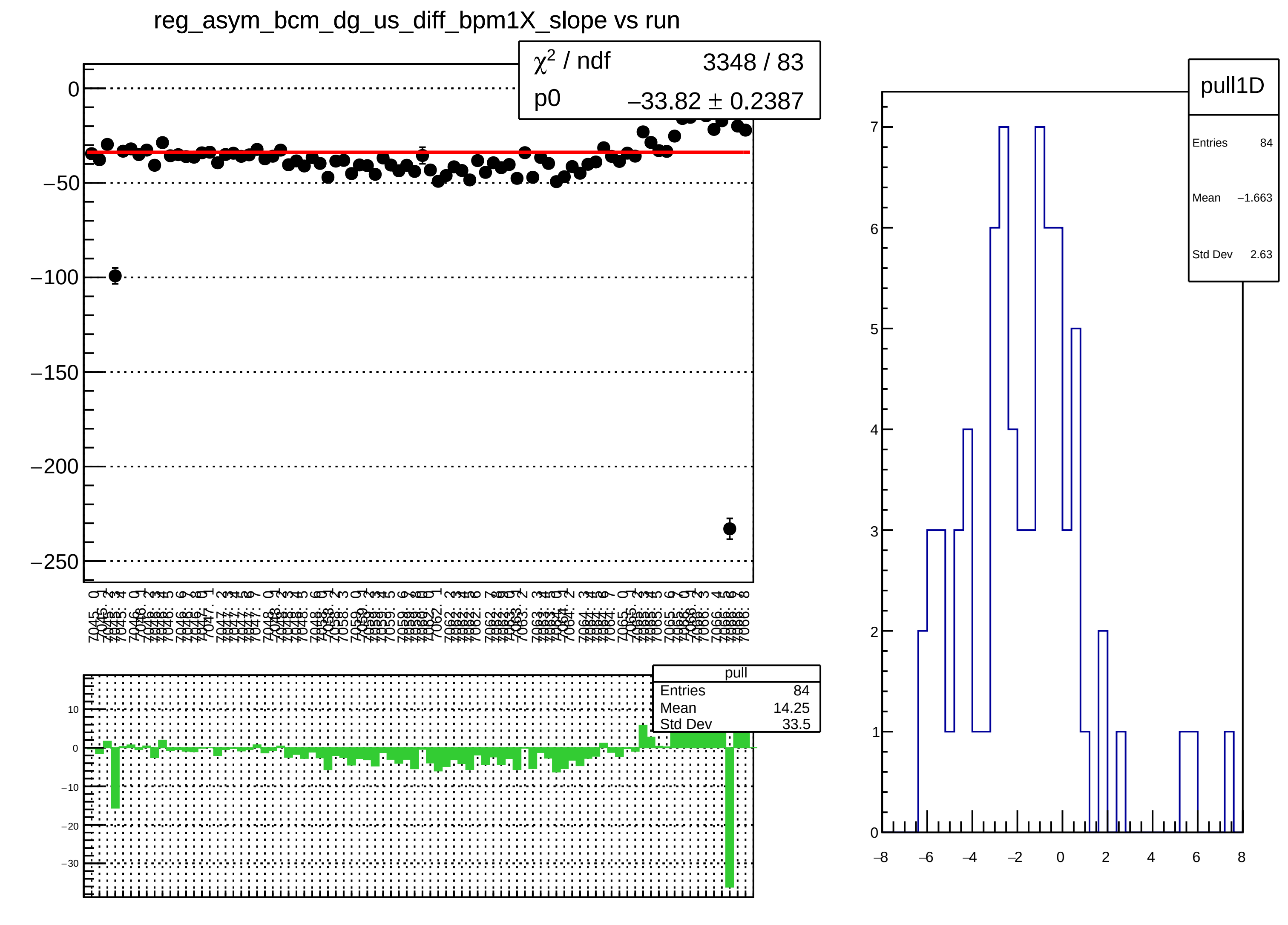
reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ2 / ndf 396 / 83
p0 4.182 ± 0.17
pull
Entries 84
Mean −16.65
Std Dev 81.25
pull1D
Entries 84
Mean 0.1664
Std Dev 2.165



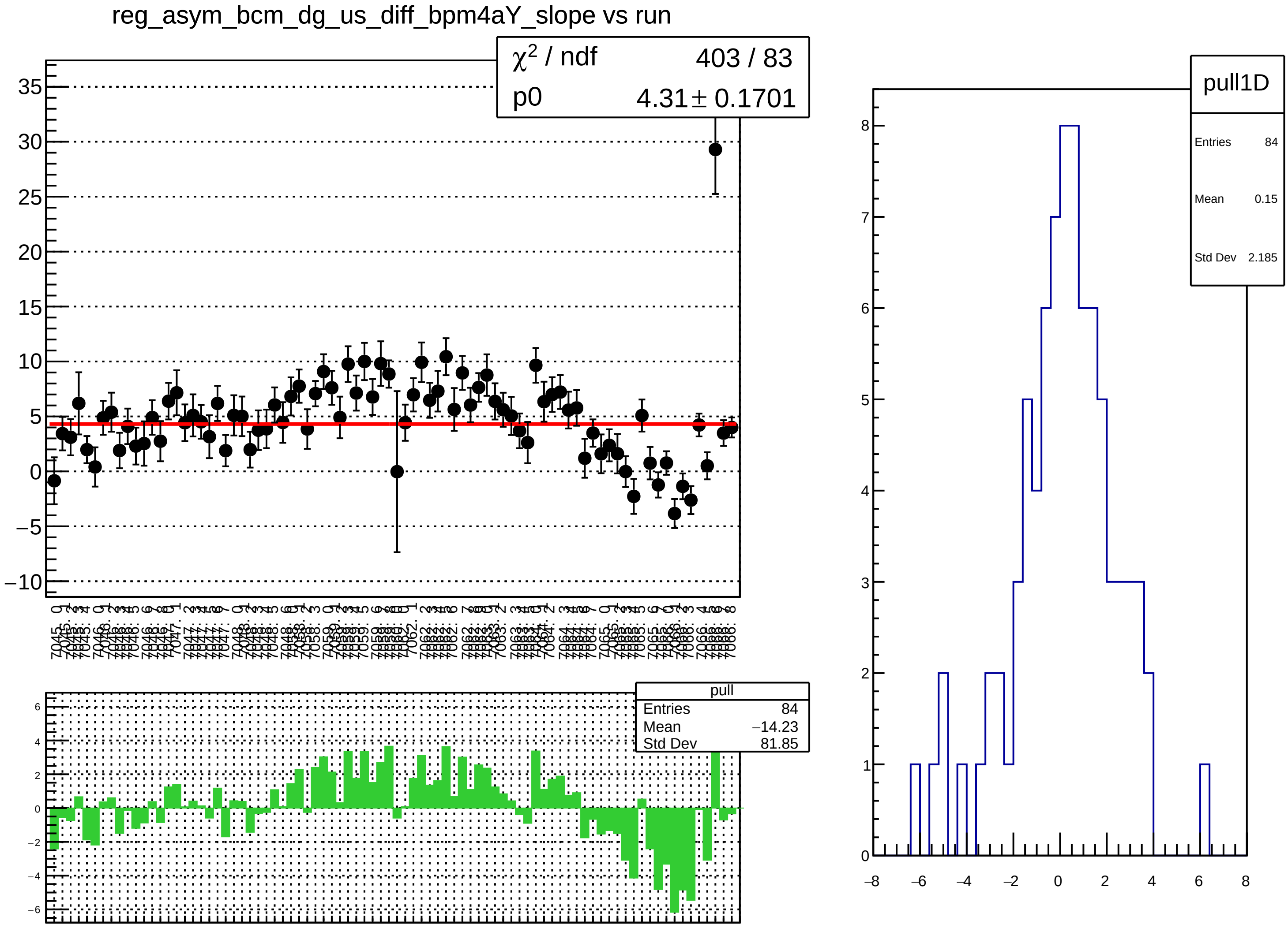
reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ2 / ndf 3325 / 83
p0 31.71 ± 0.2283
pull
Entries 84
Mean 18.36
Std Dev 31.23
pull1D
Entries 84
Mean 1.529
Std Dev 2.936


reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 492.5 / 83
p0 −6.197 ± 0.181
pull
Entries 84
Mean 13
Std Dev 58.85
pull1D
Entries 84
Mean −0.1243
Std Dev 2.266

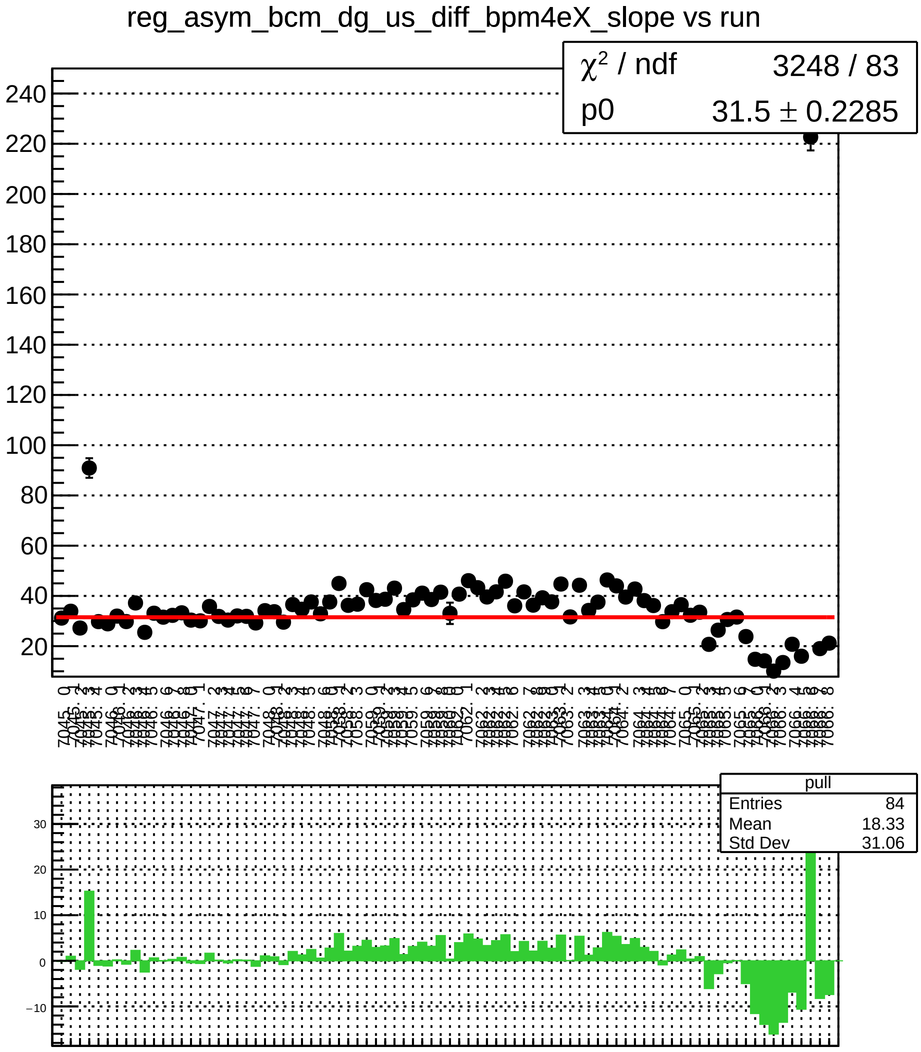

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ2 / ndf 123.8 / 83
p0 0.1144 ± 0.008539
pull
Entries 84
Mean 52.78
Std Dev 24.81
pull1D
Entries 84
Mean 0.0761
Std Dev 1.212

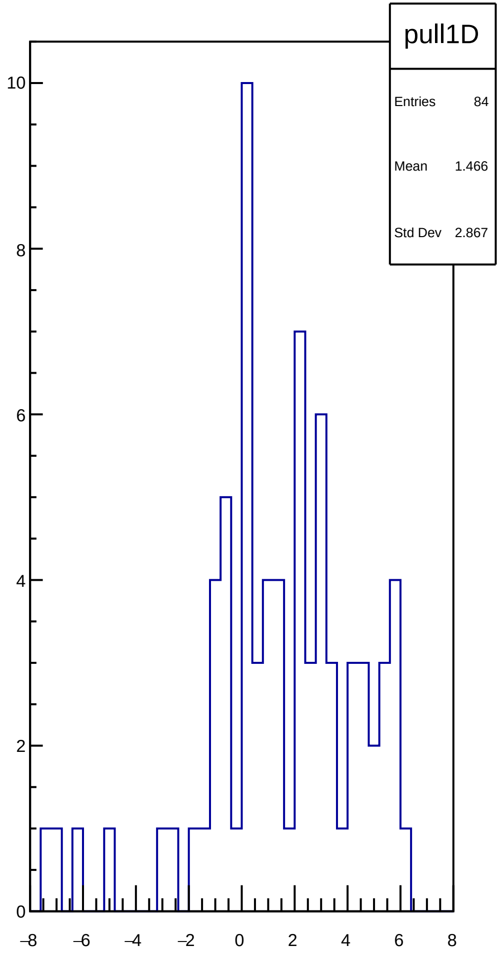


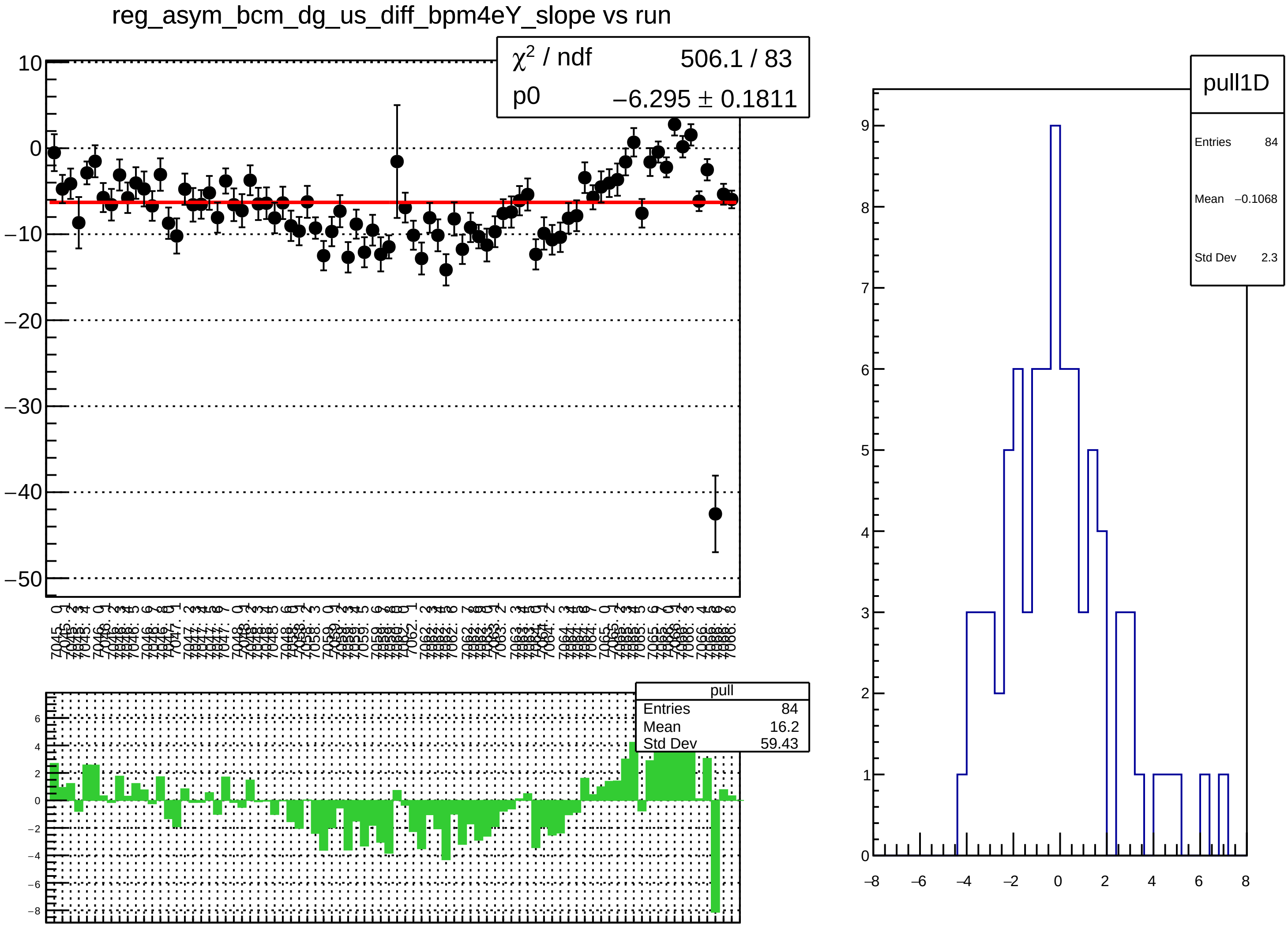
reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
$\chi^2$ / ndf 3348 / 83
p0 −33.82 ± 0.2387
pull
Entries 84
Mean 14.25
Std Dev 33.5
pull1D
Entries 84
Mean −1.663
Std Dev 2.63



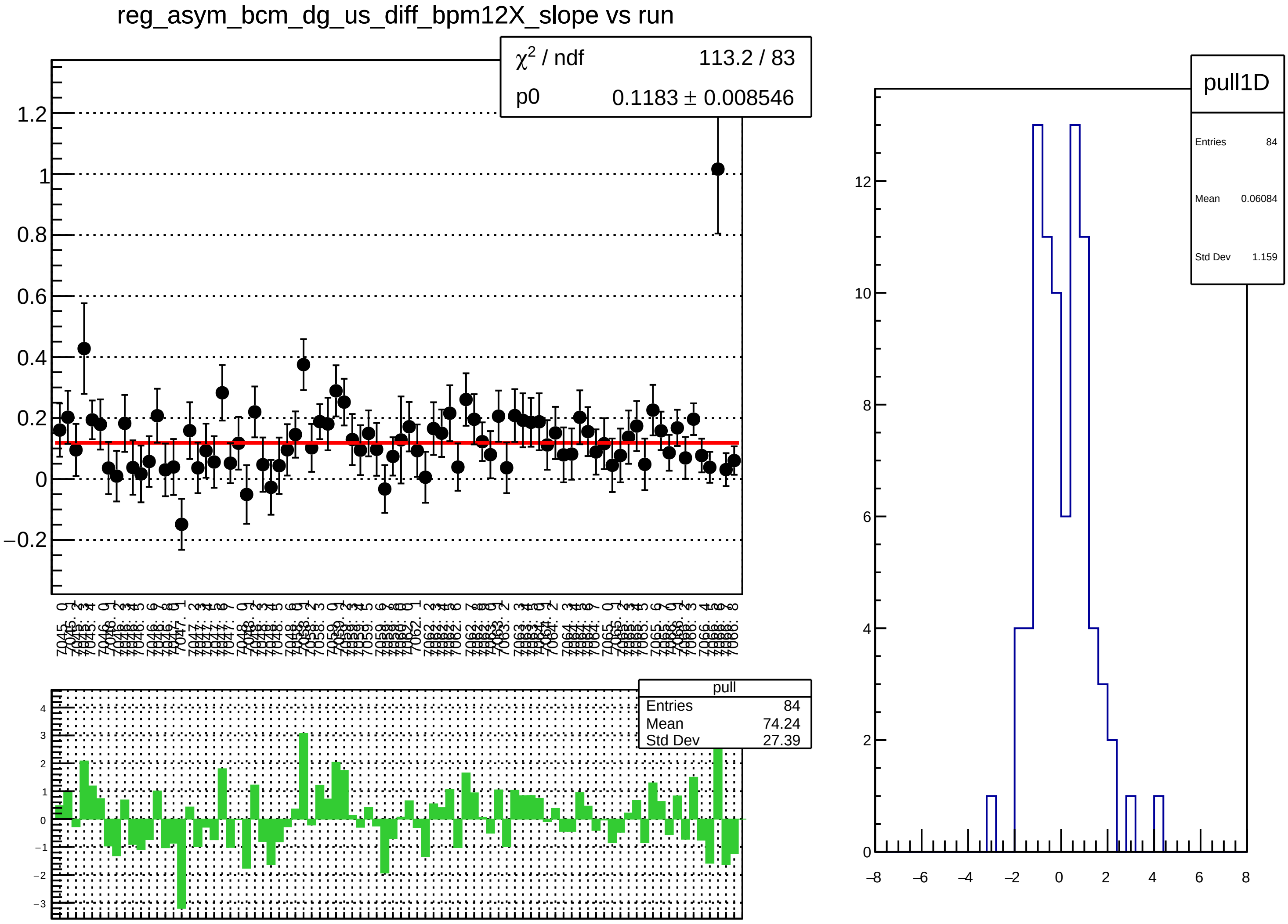
reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 403 / 83
p0 4.31 ± 0.1701
pull
Entries 84
Mean −14.23
Std Dev 81.85
pull1D
Entries 84
Mean 0.15
Std Dev 2.185

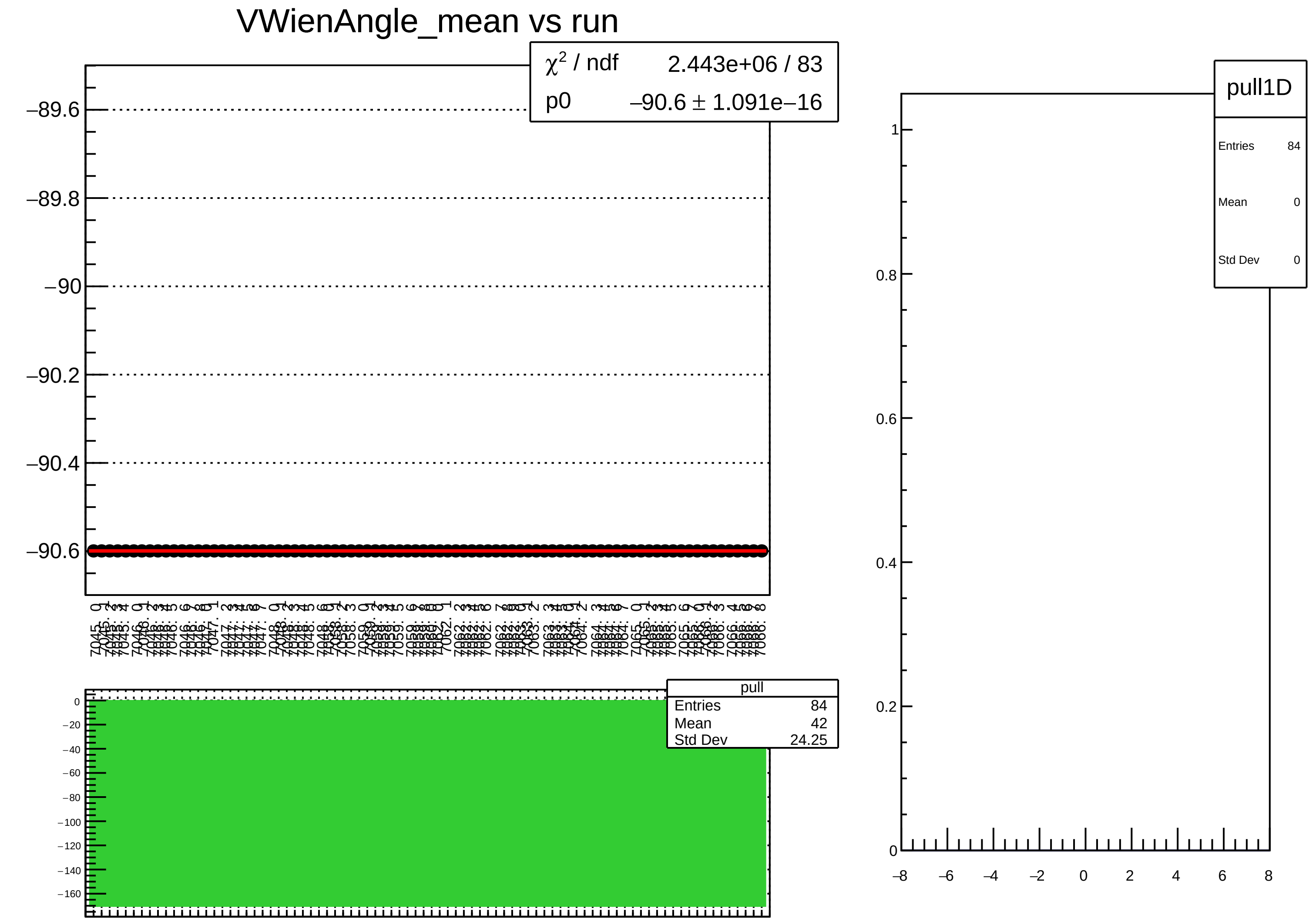

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 3248 / 83
p0 31.5 ± 0.2285
pull
Entries 84
Mean 18.33
Std Dev 31.06


pull1D
Entries 84
Mean 1.466
Std Dev 2.867

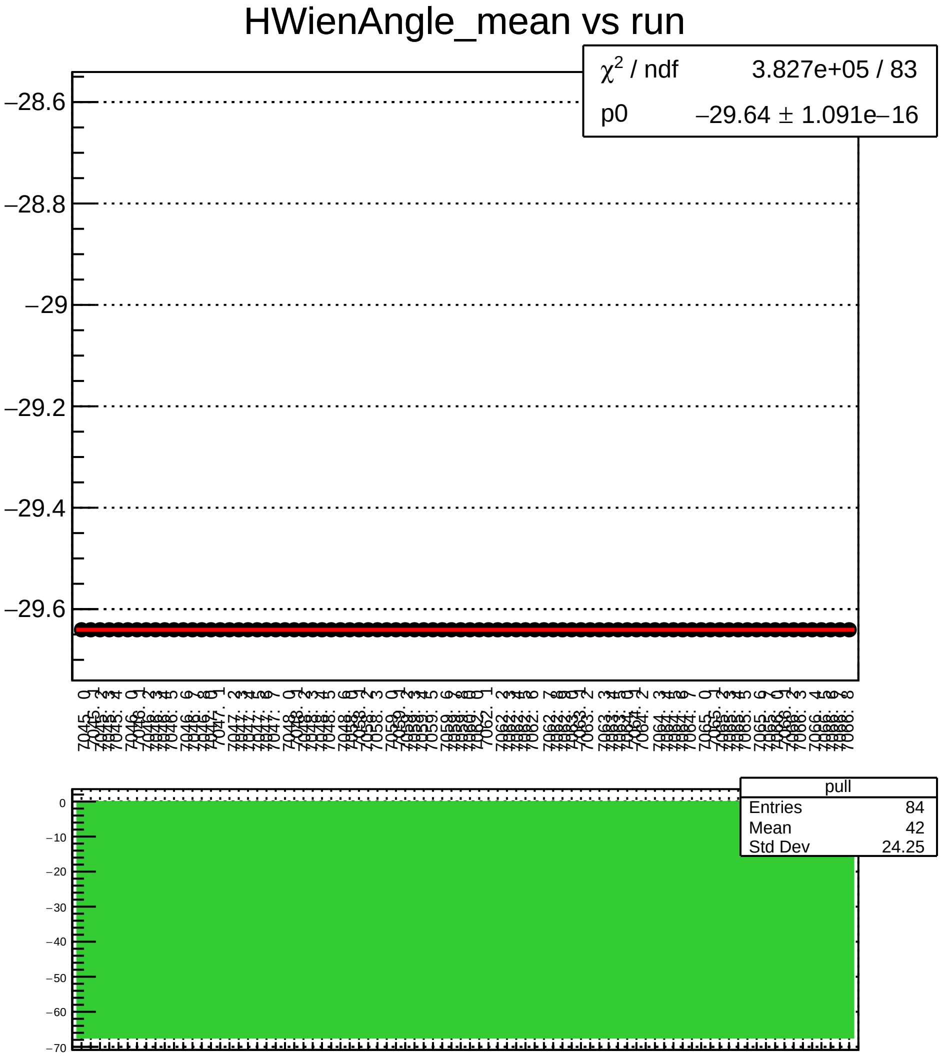


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ2 / ndf 506.1 / 83
p0 −6.295 ± 0.1811
pull
Entries 84
Mean 16.2
Std Dev 59.43
pull1D
Entries 84
Mean −0.1068
Std Dev 2.3

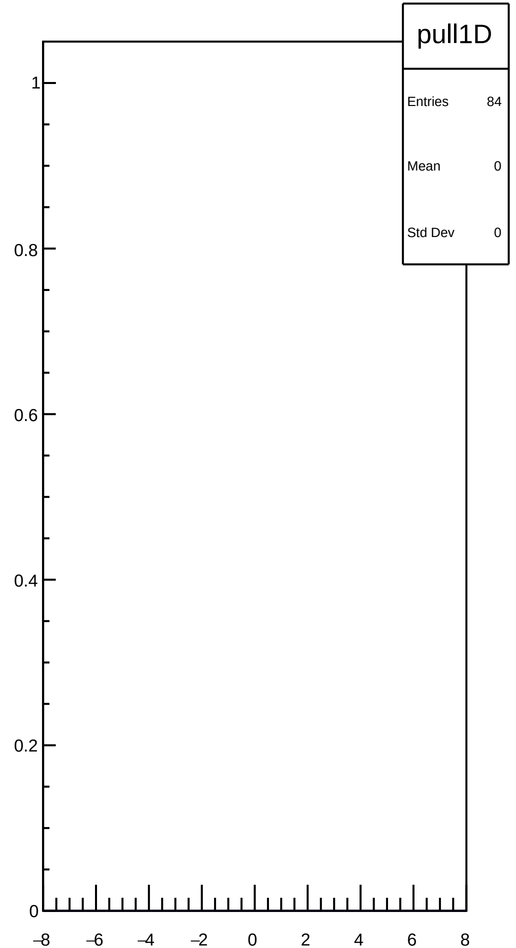

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ2 / ndf 113.2 / 83
p0 0.1183 ± 0.008546
pull
Entries 84
Mean 74.24
Std Dev 27.39
pull1D
Entries 84
Mean 0.06084
Std Dev 1.159



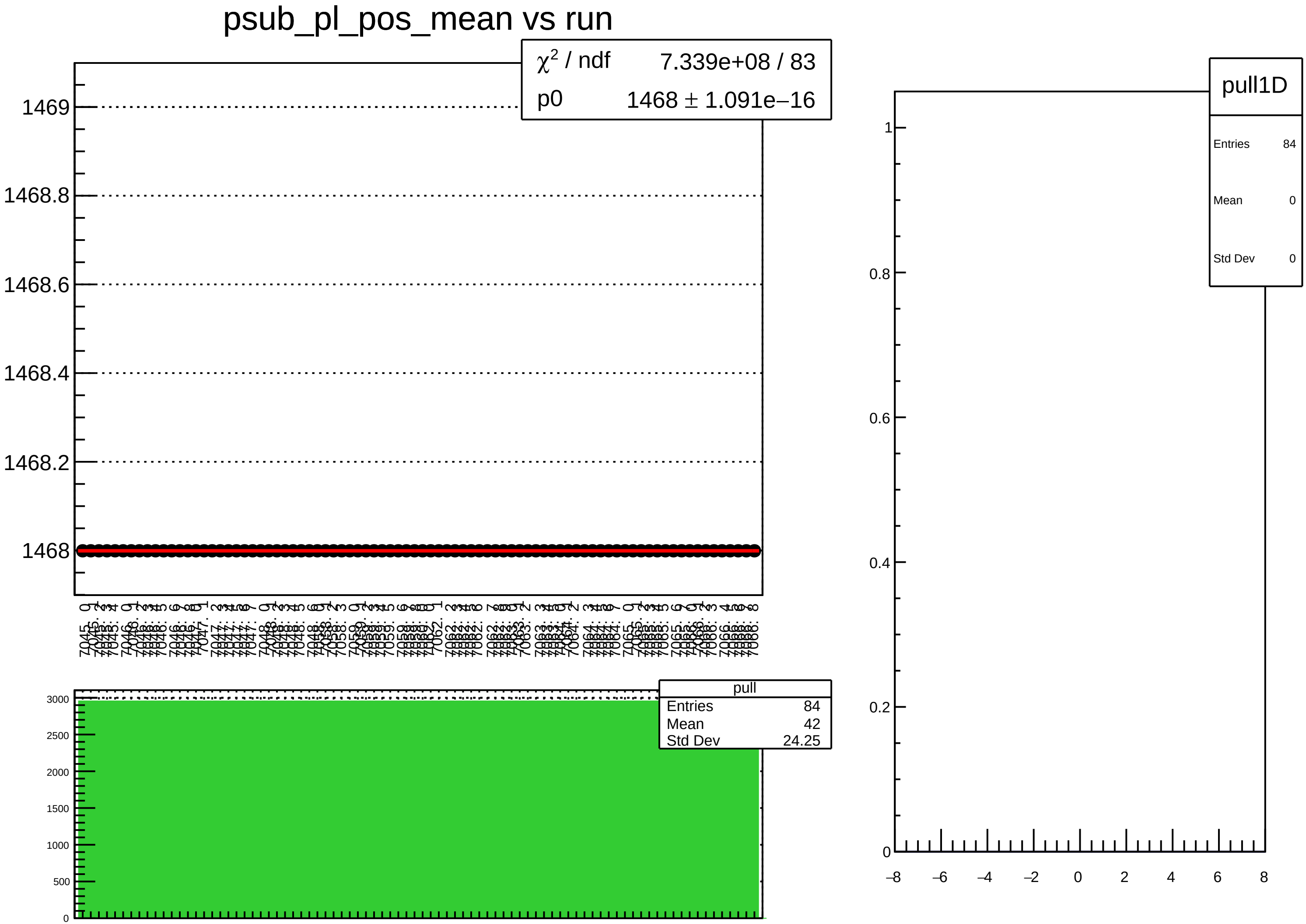
VWienAngle_mean vs run
$\chi^2$ / ndf 2.443e+06 / 83
p0 −90.6 ± 1.091e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 0
Std Dev 0



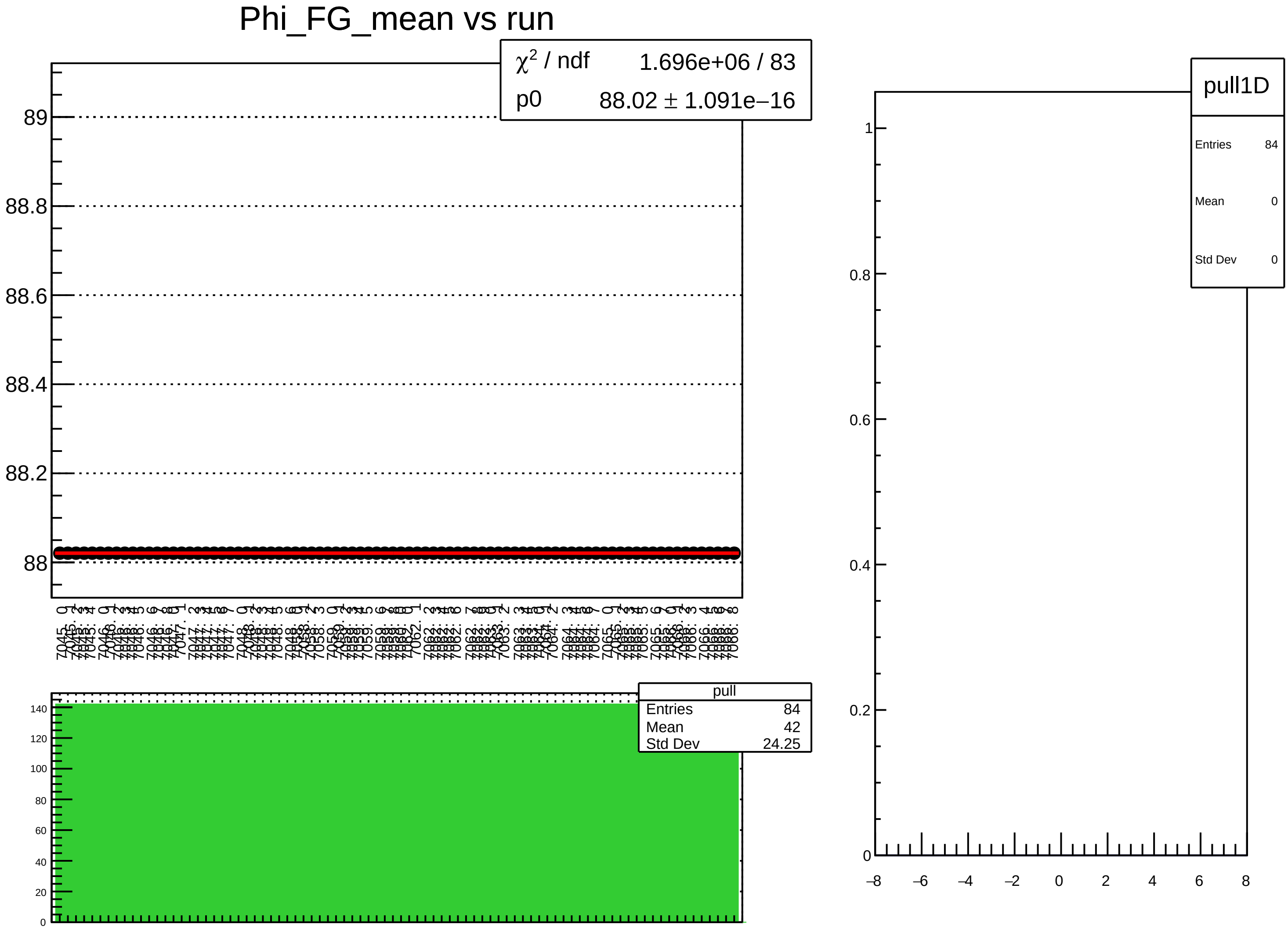
HWienAngle_mean vs run
χ2 / ndf 3.827e+05 / 83
p0 −29.64 ± 1.091e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 84
Mean 42
Std Dev 24.25
0
−10
−20
−30
−40
−50
−60
−70

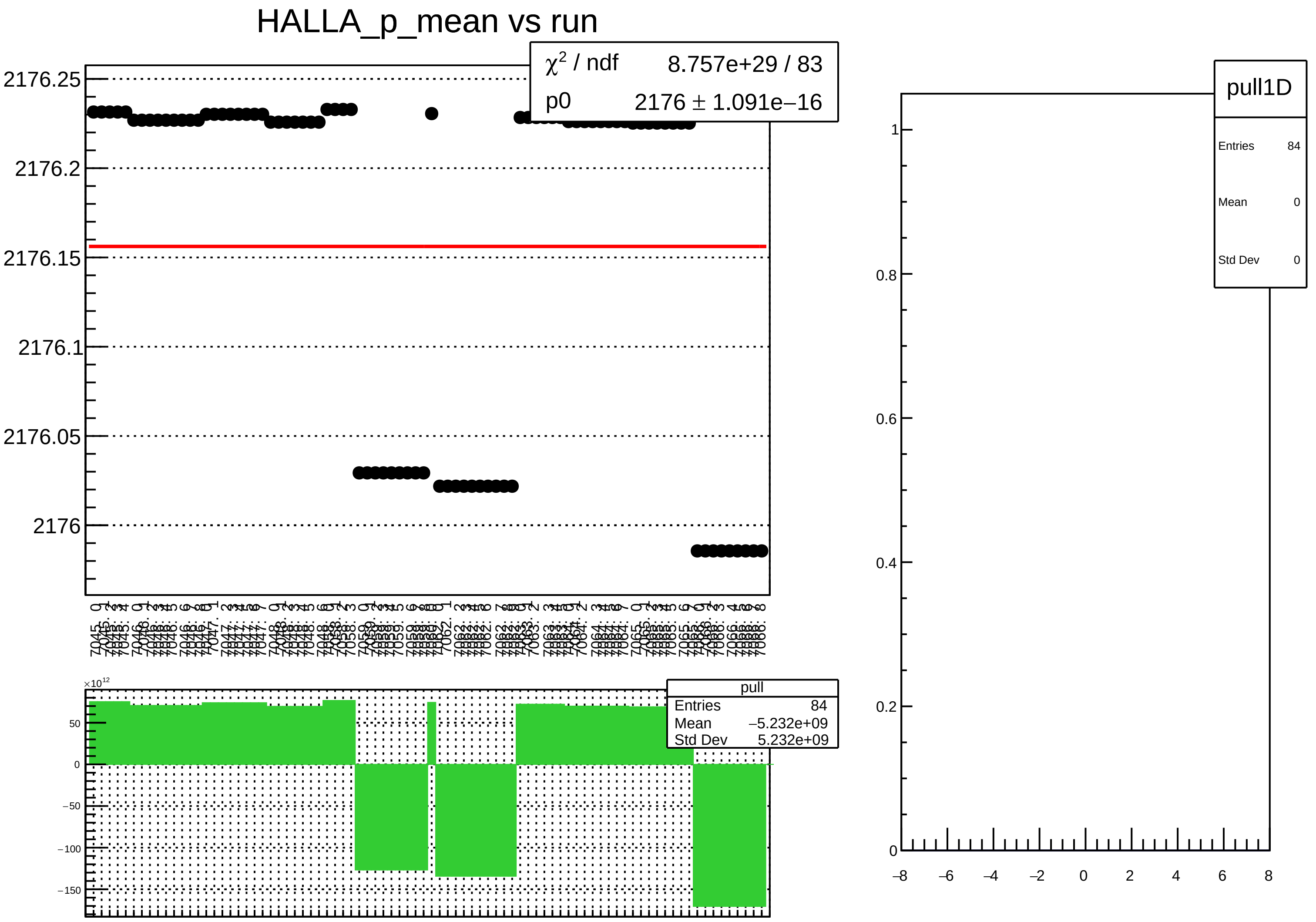
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



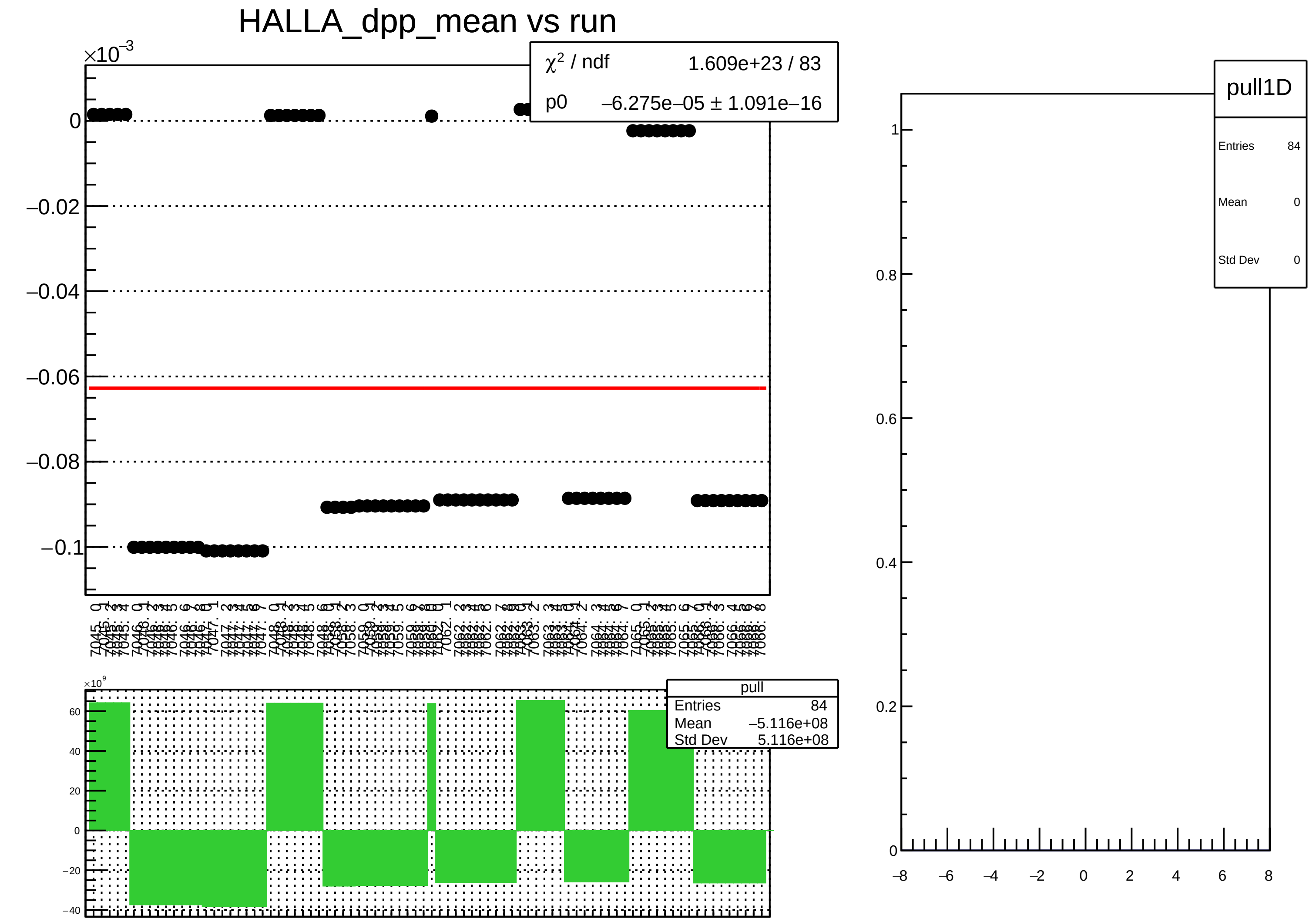
psub_pl_pos_mean vs run
$\chi^2$ / ndf 7.339e+08 / 83
p0 1468 ± 1.091e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 84
Mean 42
Std Dev 24.25
3000
2500
2000
1500
1000
500
0
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



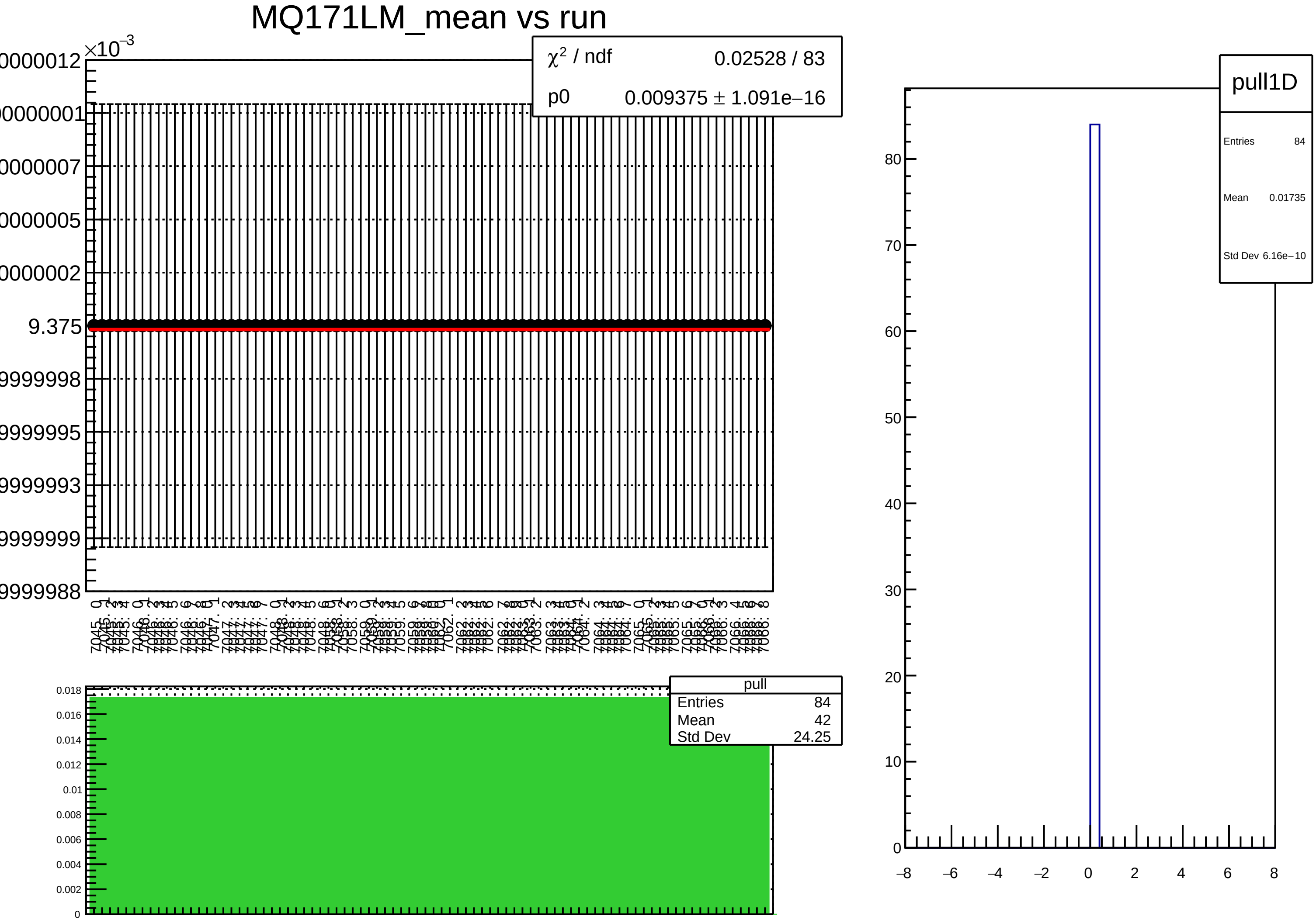
Phi_FG_mean vs run
$\chi^2$ / ndf 1.696e+06 / 83
p0 88.02 ± 1.091e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 84
Mean 42
Std Dev 24.25
140
120
100
80
60
40
20
0
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

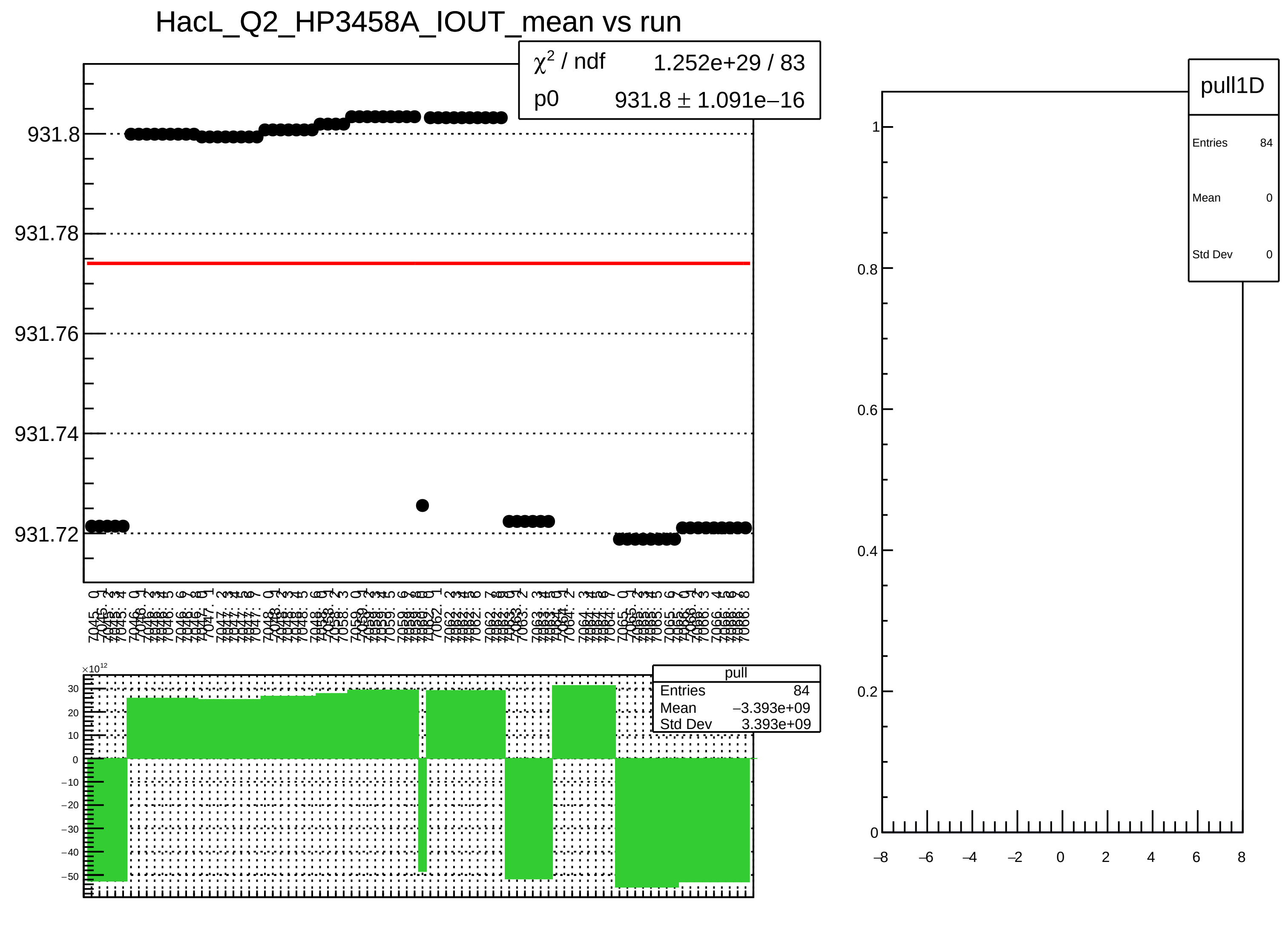


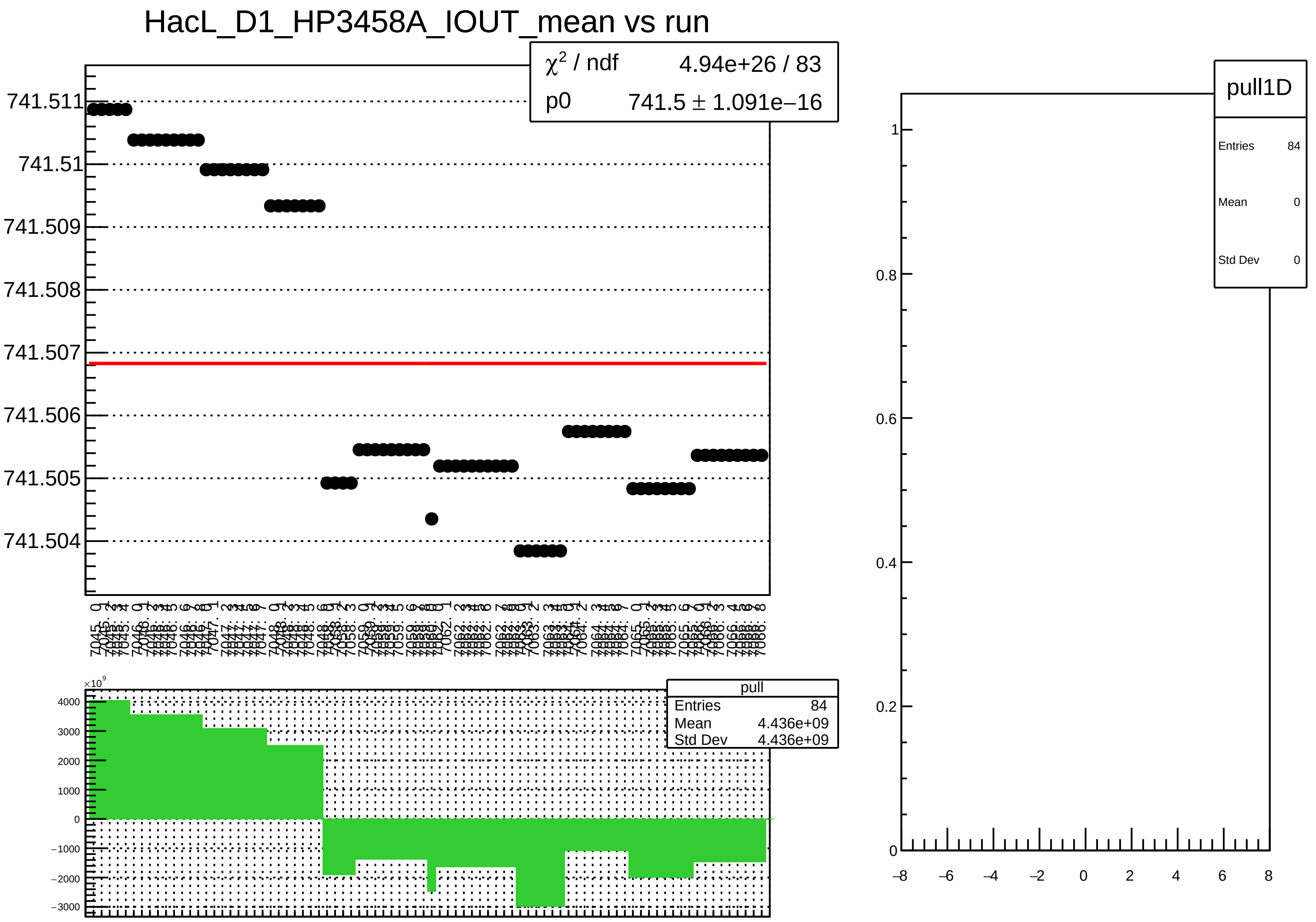
HALLA_p_mean vs run
χ2 / ndf 8.757e+29 / 83
p0 2176 ± 1.091e−16
2176.25
2176.2
2176.15
2176.1
2176.05
2176
×10^12
50
0
−50
−100
−150
pull
Entries 84
Mean −5.232e+09
Std Dev 5.232e+09
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

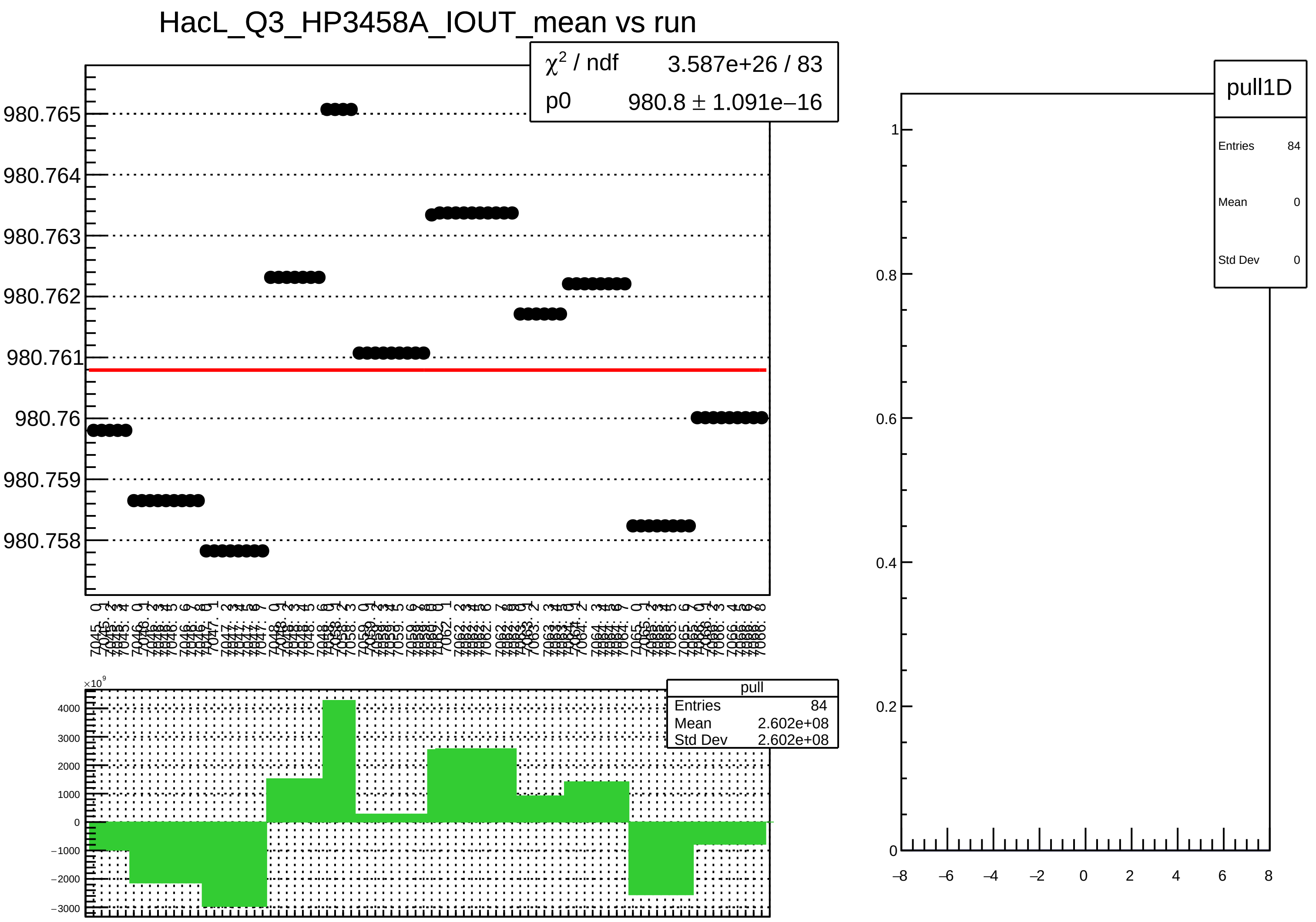


HALLA_dpp_mean vs run
$\times10^{-3}$
$\chi^2$ / ndf 1.609e+23 / 83
p0 −6.275e−05 ± 1.091e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
$\times10^{9}$
pull
Entries 84
Mean −5.116e+08
Std Dev 5.116e+08
60
40
20
0
−20
−40
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

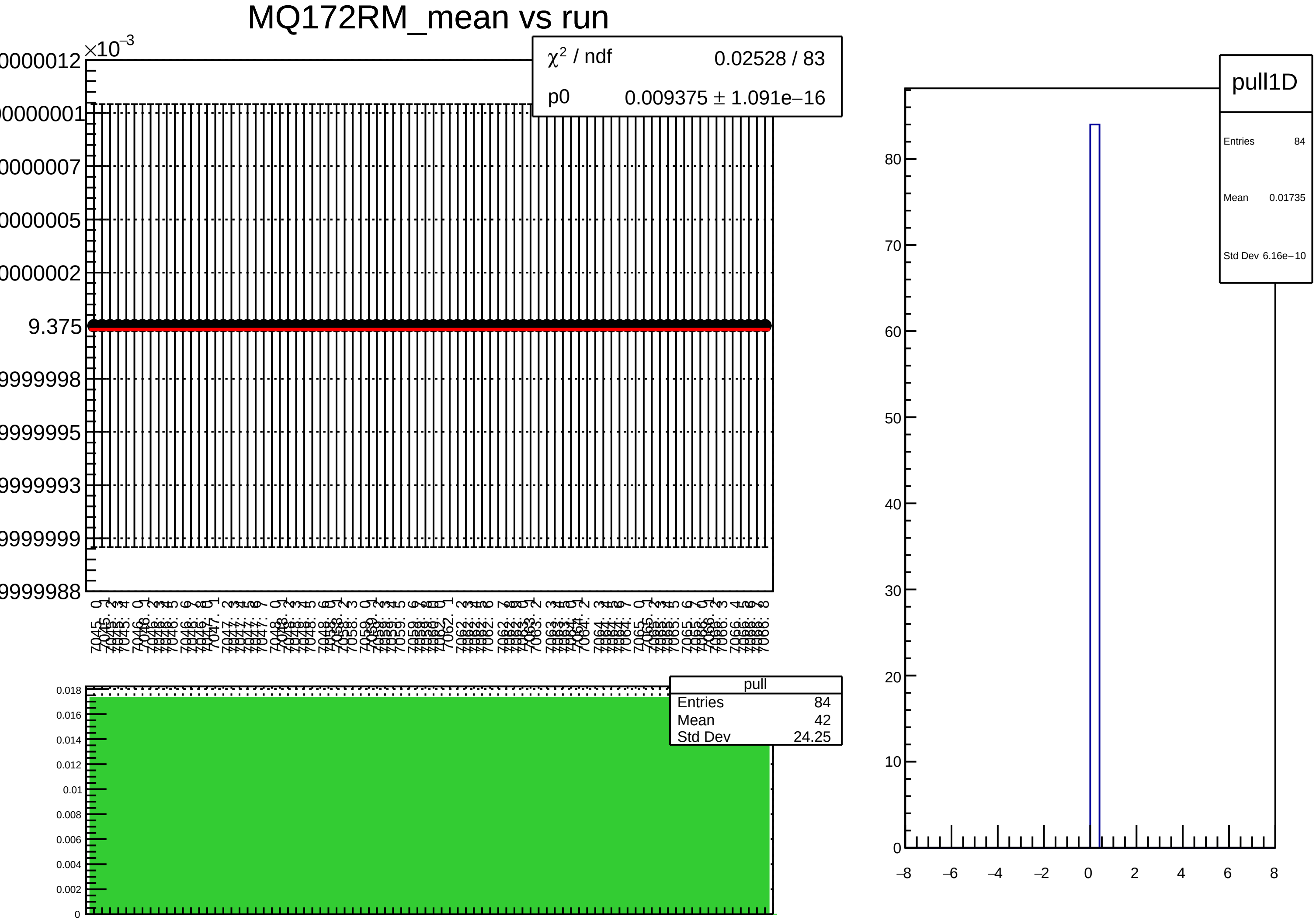

MQ171LM_mean vs run
$\chi^2$ / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 0.01735
Std Dev 6.16e−10


HacL_Q2_HP3458A_IOUT_mean vs run
χ2 / ndf 1.252e+29 / 83
p0 931.8 ± 1.091e−16
931.8
931.78
931.76
931.74
931.72
×10^12
pull
Entries 84
Mean −3.393e+09
Std Dev 3.393e+09
30
20
10
0
−10
−20
−30
−40
−50
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

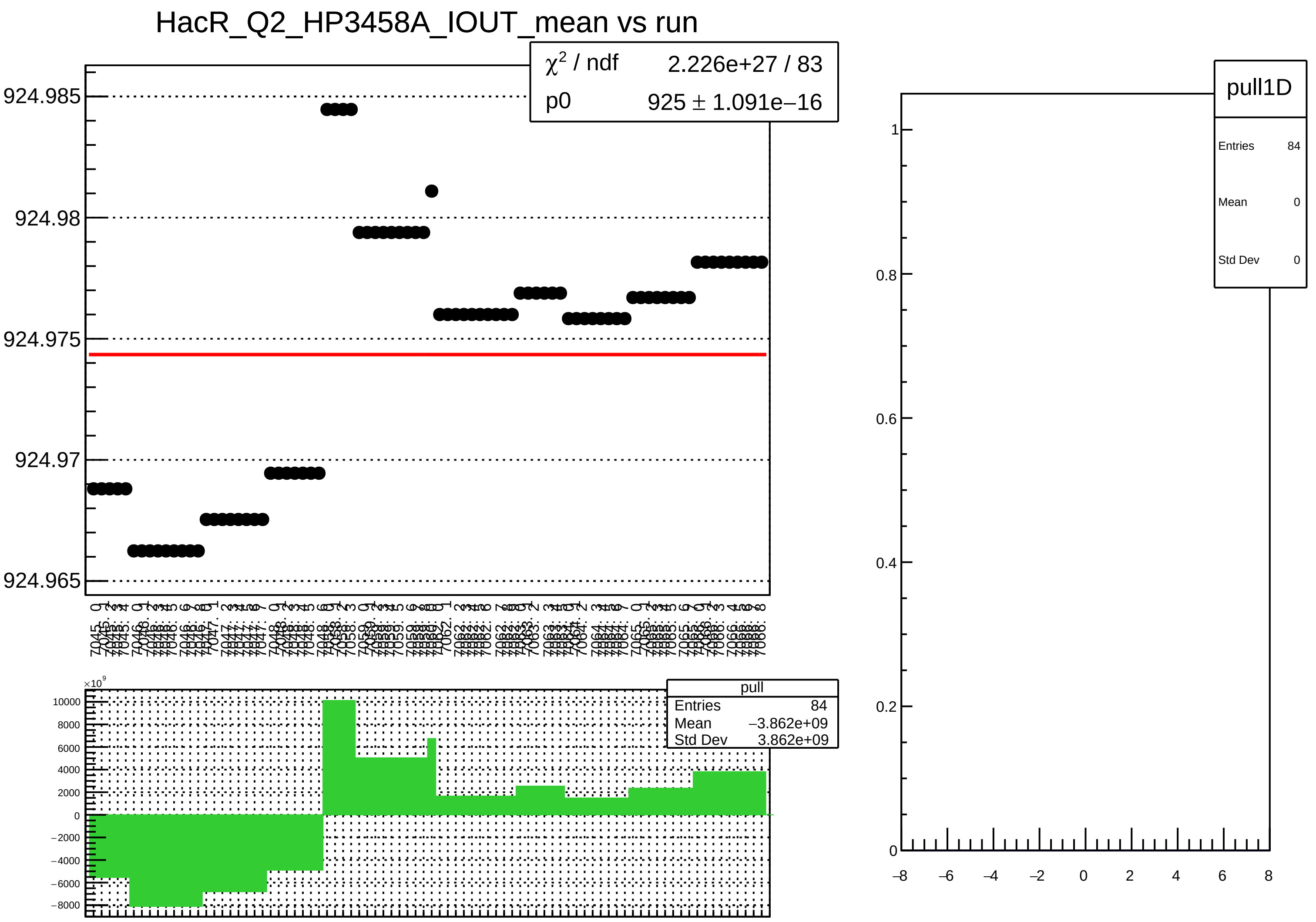

HacL_D1_HP3458A_IOUT_mean vs run
χ2 / ndf 4.94e+26 / 83
p0 741.5 ± 1.091e−16
741.511
741.51
741.509
741.508
741.507
741.506
741.505
741.504
pull
Entries 84
Mean 4.436e+09
Std Dev 4.436e+09
pull1D
Entries 84
Mean 0
Std Dev 0



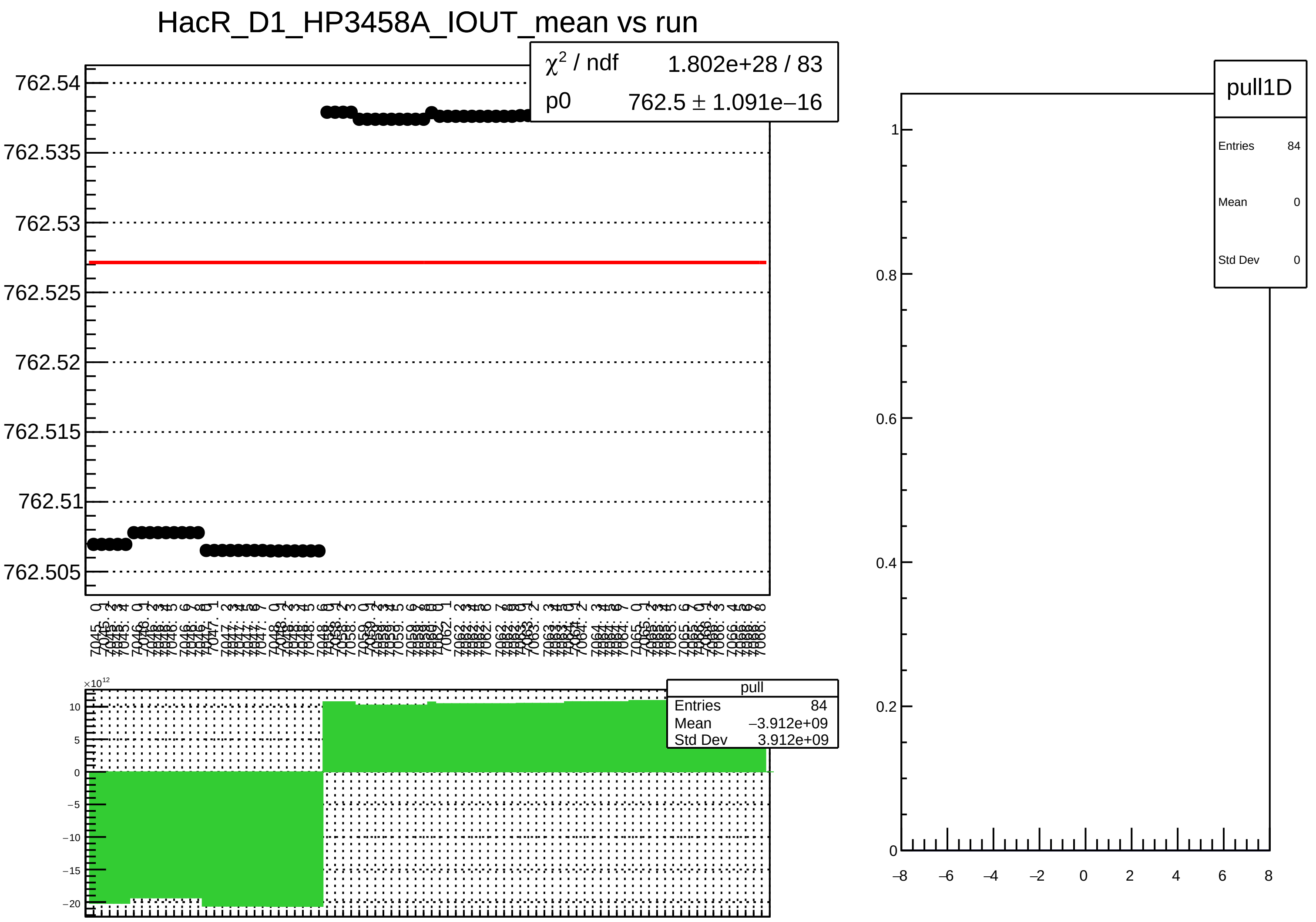
HacL_Q3_HP3458A_IOUT_mean vs run
$\chi^2$ / ndf 3.587e+26 / 83
p0 980.8 ± 1.091e−16
pull
Entries 84
Mean 2.602e+08
Std Dev 2.602e+08
pull1D
Entries 84
Mean 0
Std Dev 0

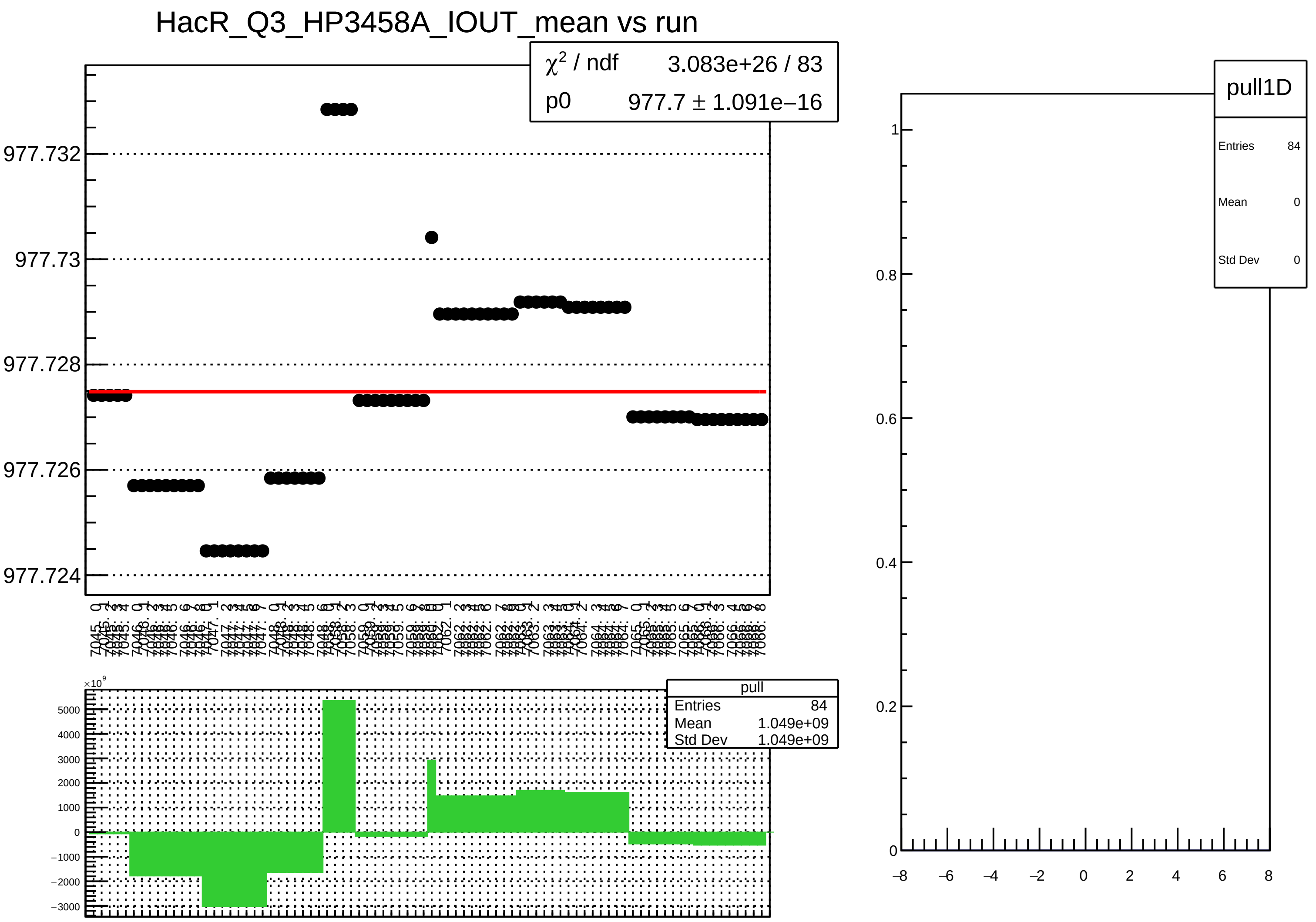


MQ172RM_mean vs run
$\chi^2$ / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 0.01735
Std Dev 6.16e−10



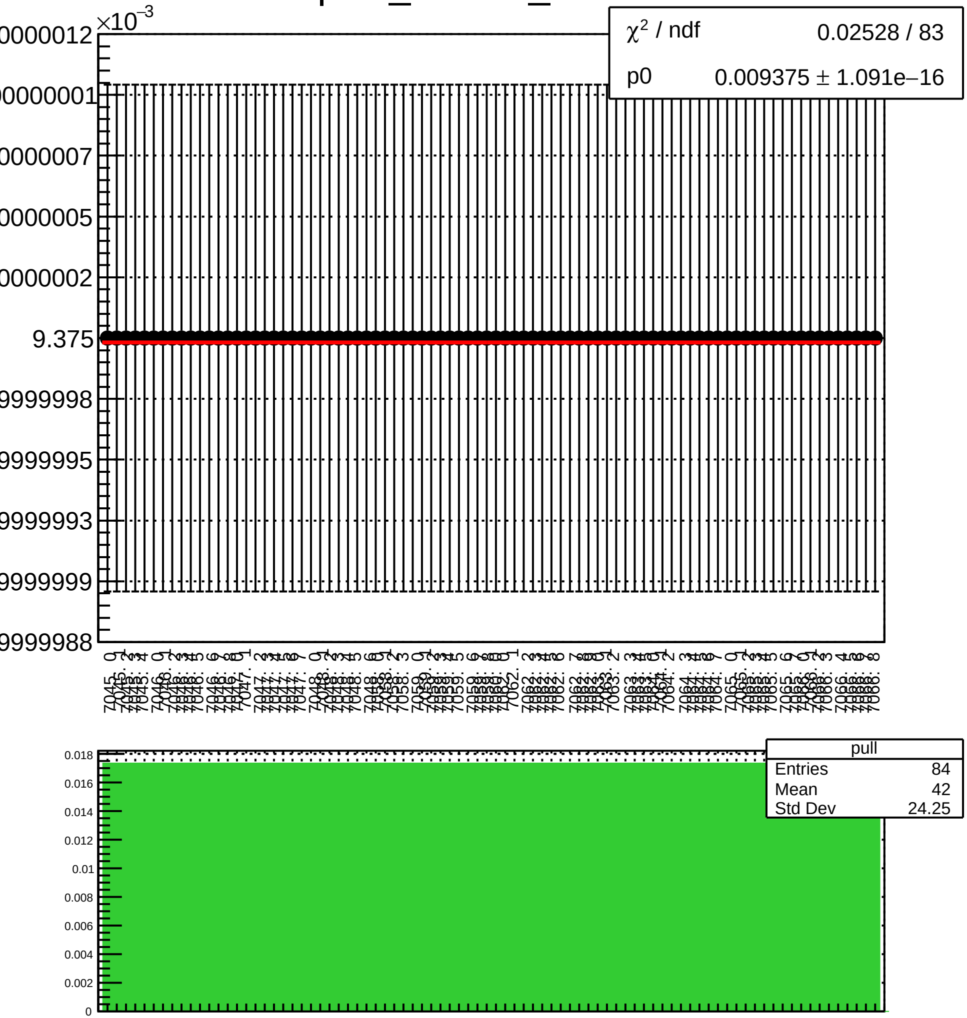
HacR_Q2_HP3458A_IOUT_mean vs run
$\chi^2$ / ndf 2.226e+27 / 83
p0 925 ± 1.091e−16
pull
Entries 84
Mean −3.862e+09
Std Dev 3.862e+09
pull1D
Entries 84
Mean 0
Std Dev 0

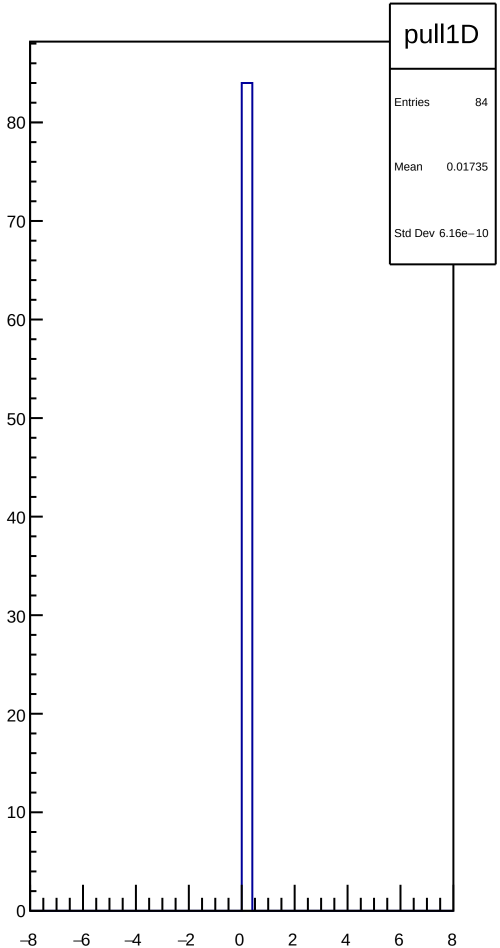

HacR_D1_HP3458A_IOUT_mean vs run
χ2 / ndf 1.802e+28 / 83
p0 762.5 ± 1.091e−16
pull
Entries 84
Mean −3.912e+09
Std Dev 3.912e+09
pull1D
Entries 84
Mean 0
Std Dev 0



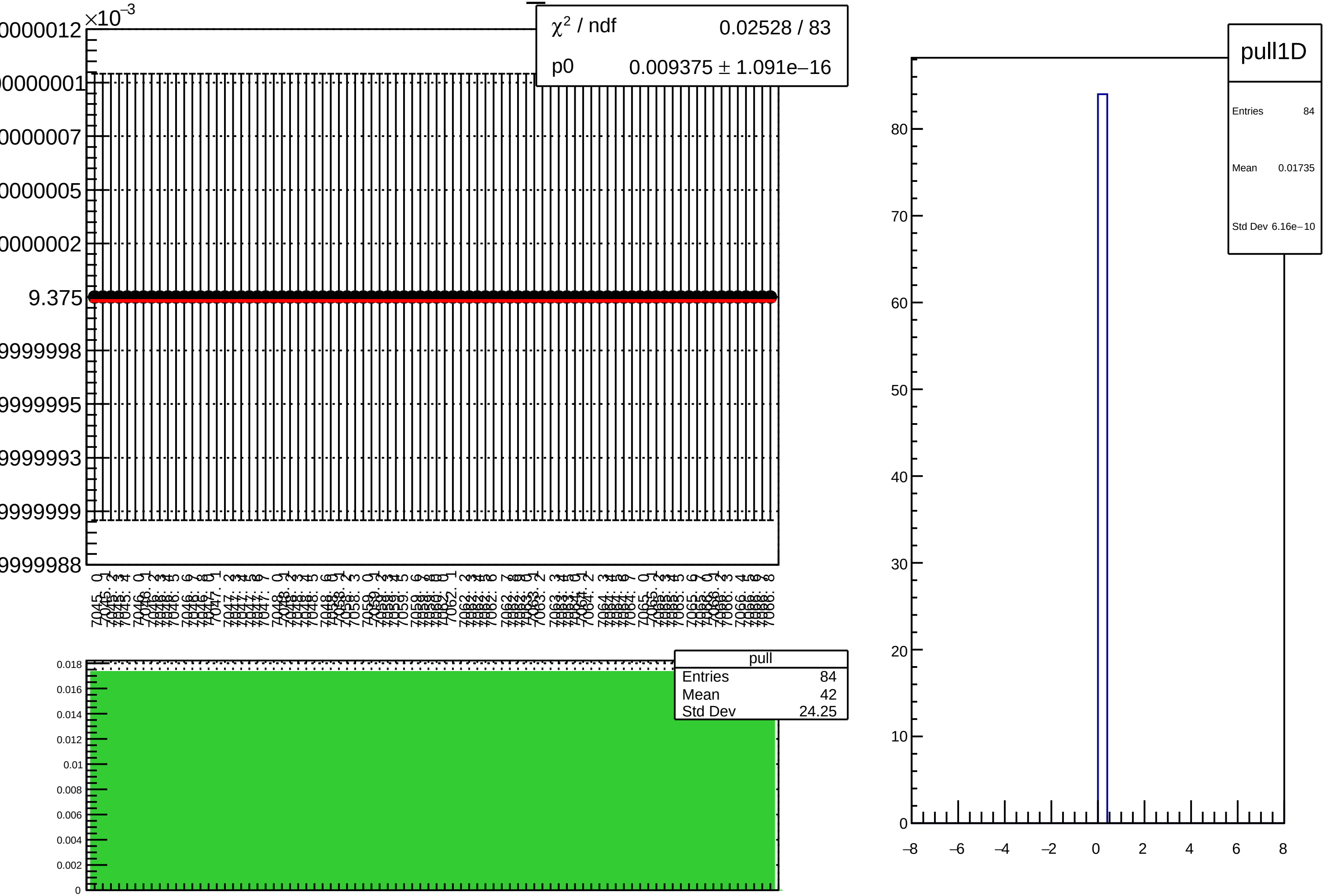
HacR_Q3_HP3458A_IOUT_mean vs run
χ2 / ndf 3.083e+26 / 83
p0 977.7 ± 1.091e−16
977.732
977.73
977.728
977.726
977.724
×10^9
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 1.049e+09
Std Dev 1.049e+09
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

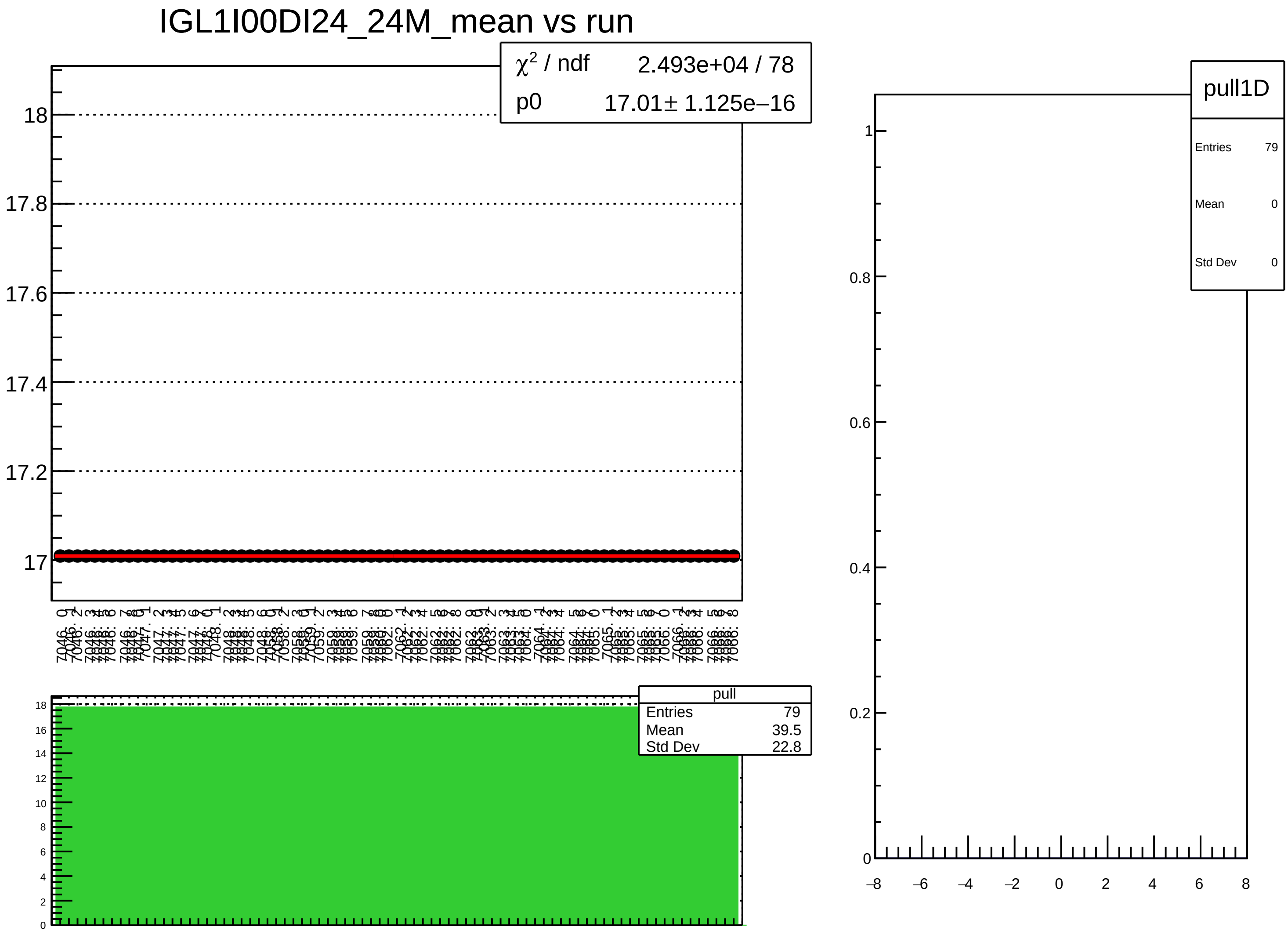
hesDipole_current_mean vs run



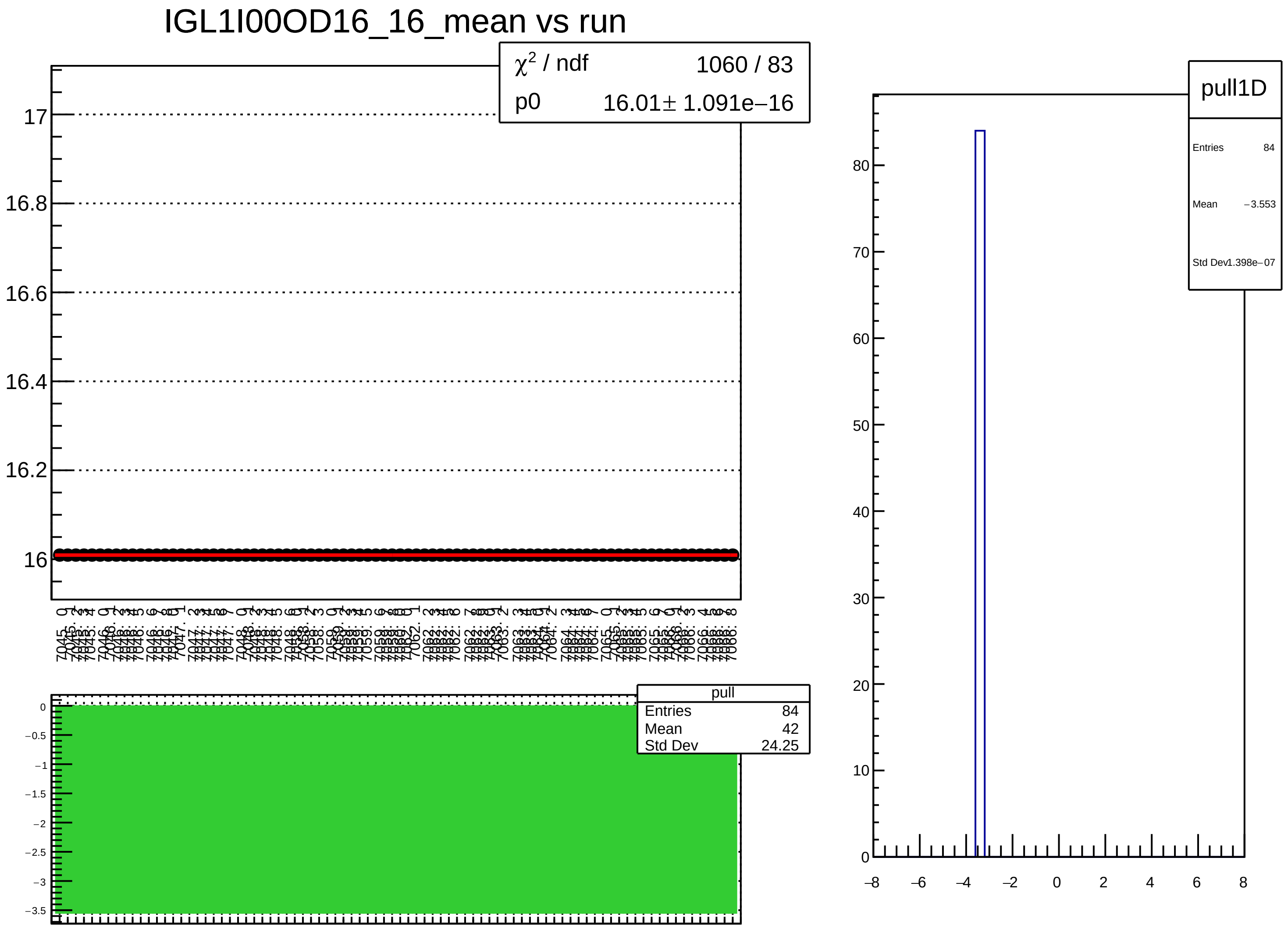



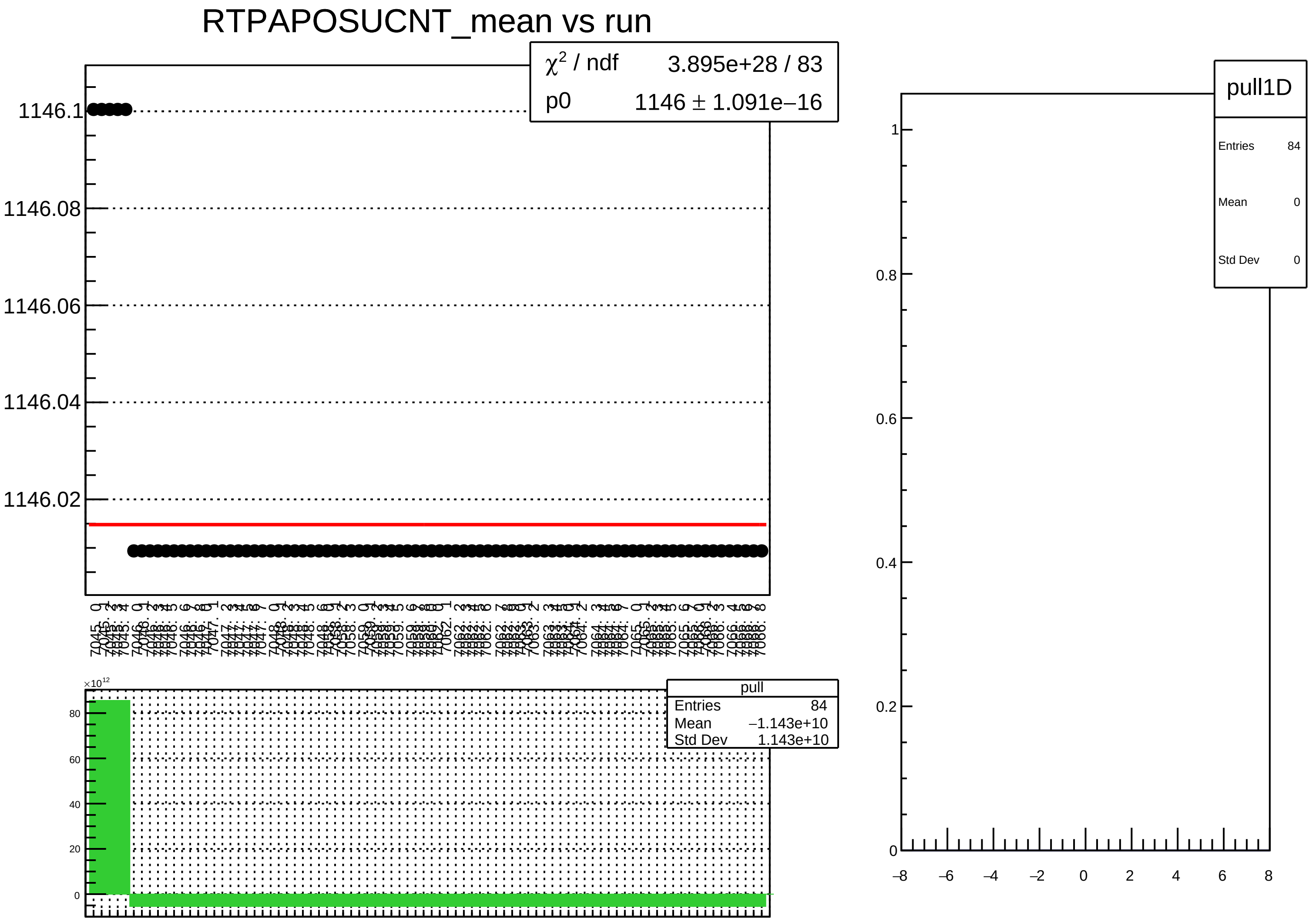
# MSUPERBIGBITEreadcalc_mean vs run



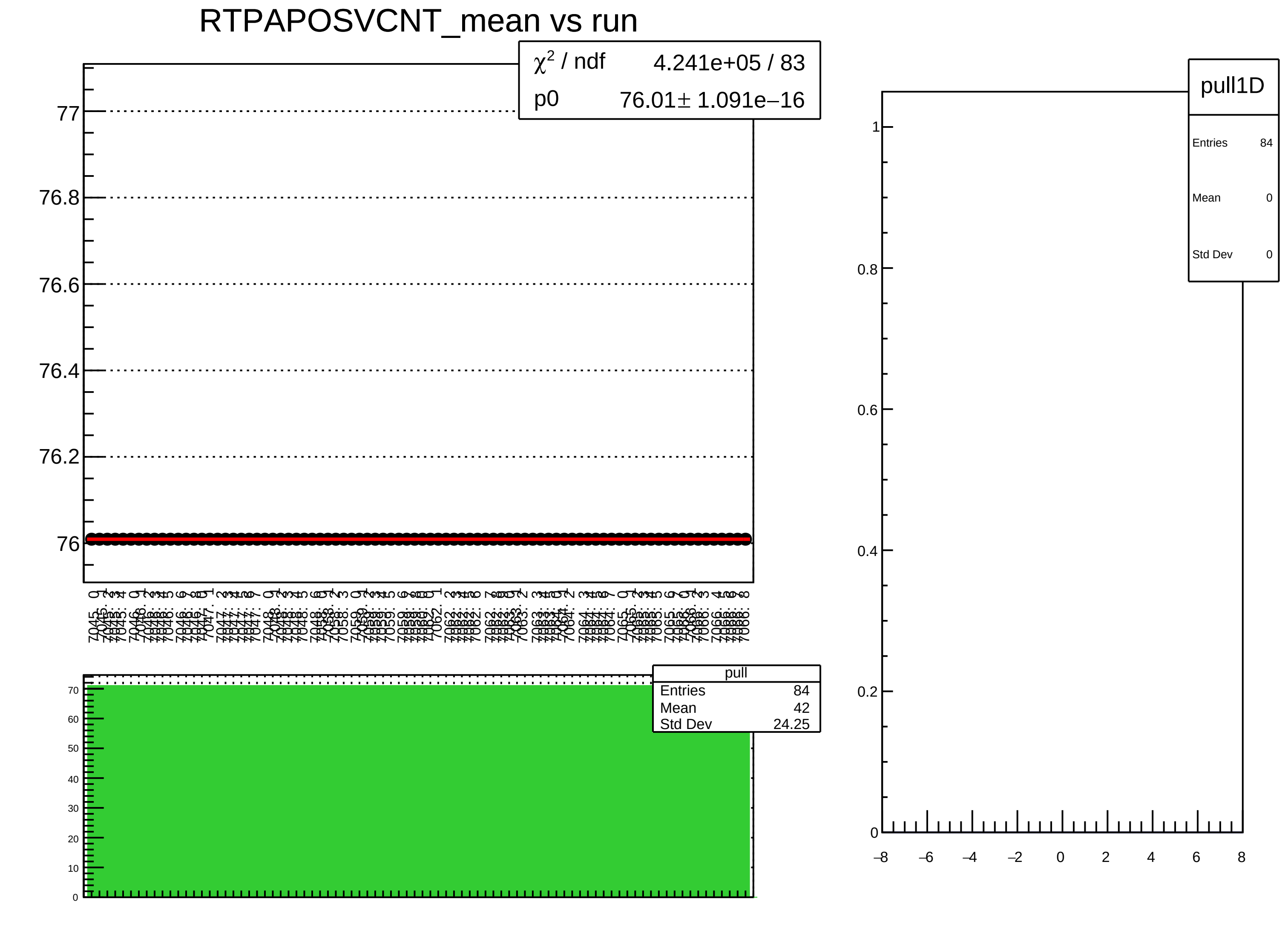


IGL1I00DI24_24M_mean vs run
$\chi^2$ / ndf 2.493e+04 / 78
p0 17.01± 1.125e−16
pull
Entries 79
Mean 39.5
Std Dev 22.8
pull1D
Entries 79
Mean 0
Std Dev 0


IGL1I00OD16_16_mean vs run
$\chi^2$ / ndf 1060 / 83
p0 16.01± 1.091e−16
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean −3.553
Std Dev 1.398e−07



RTPAPOSUCNT_mean vs run
$\chi^2$ / ndf 3.895e+28 / 83
p0 1146 ± 1.091e−16
pull
Entries 84
Mean −1.143e+10
Std Dev 1.143e+10
pull1D
Entries 84
Mean 0
Std Dev 0


RTPAPOSVCNT_mean vs run
χ2 / ndf 4.241e+05 / 83
p0 76.01± 1.091e−16
77
76.8
76.6
76.4
76.2
76
pull
Entries 84
Mean 42
Std Dev 24.25
70
60
50
40
30
20
10
0
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8