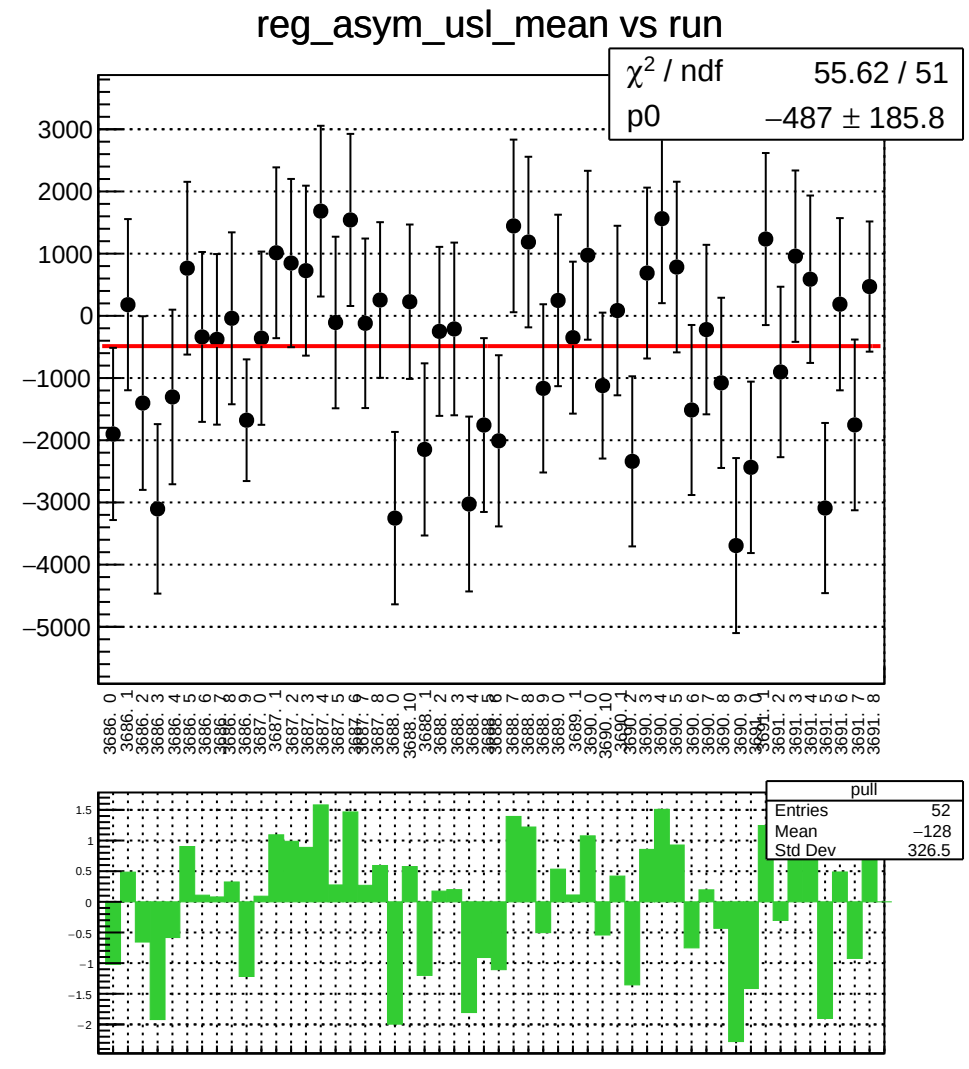
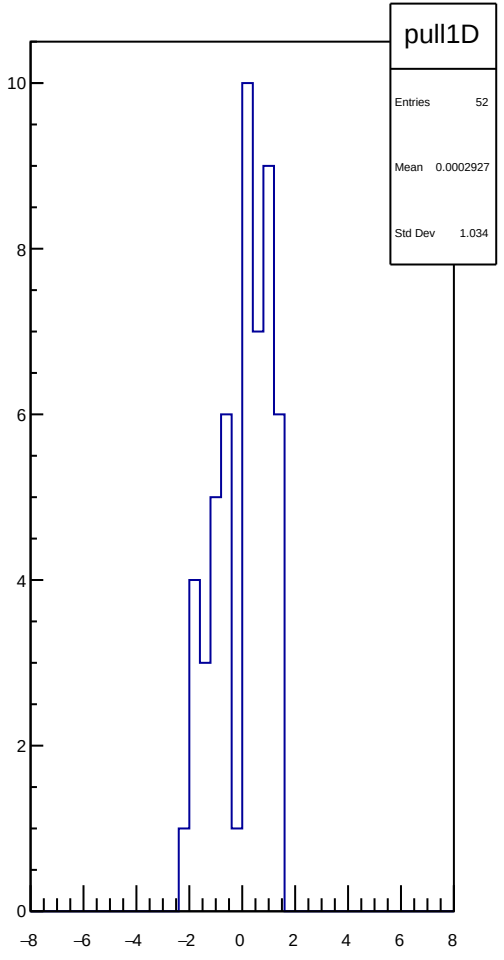
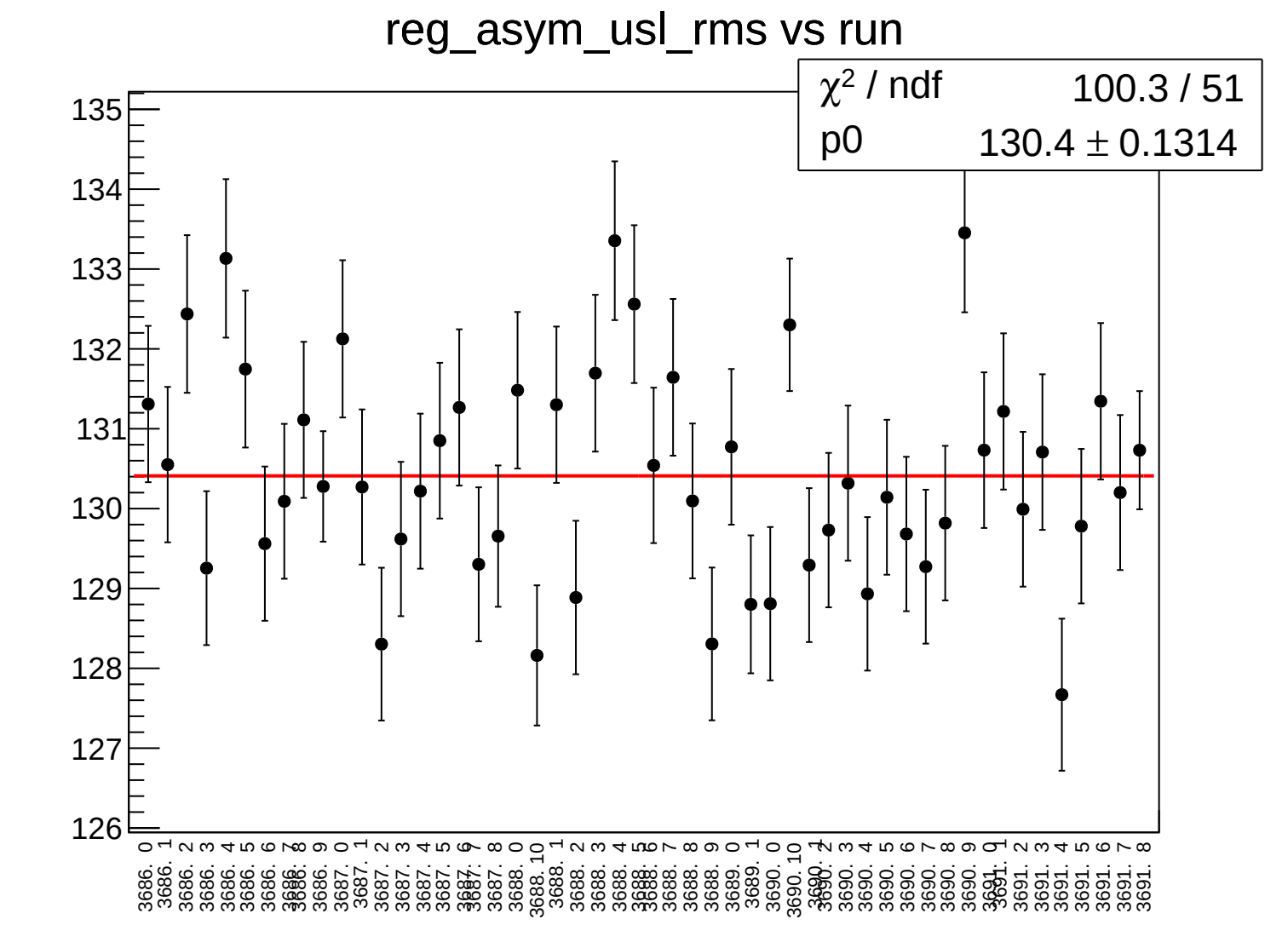
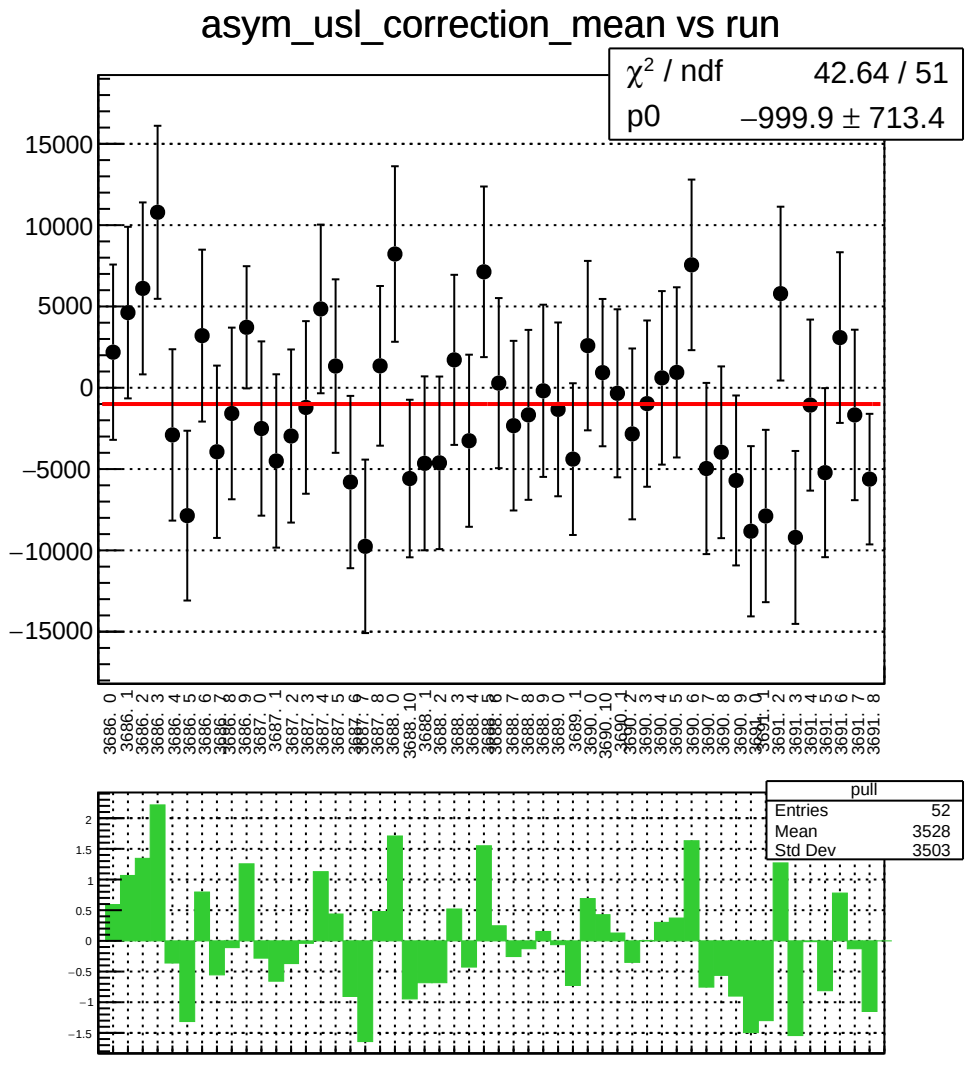
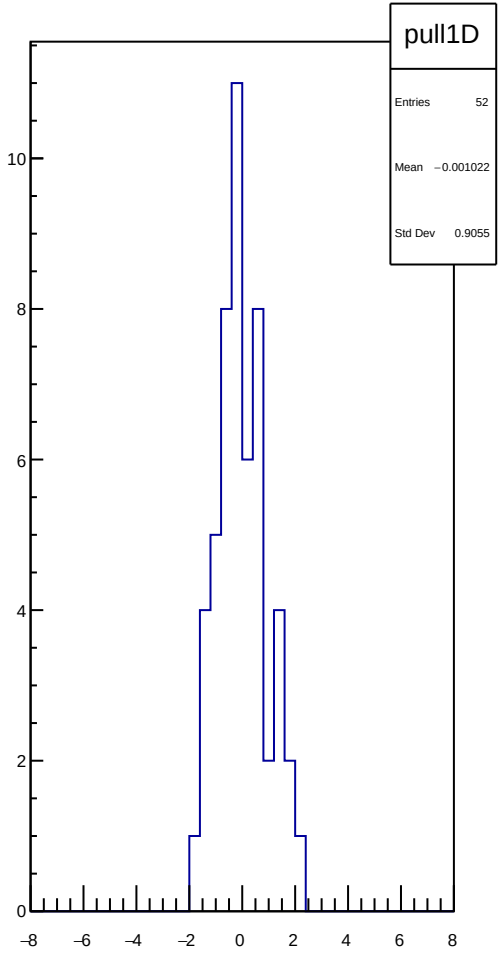
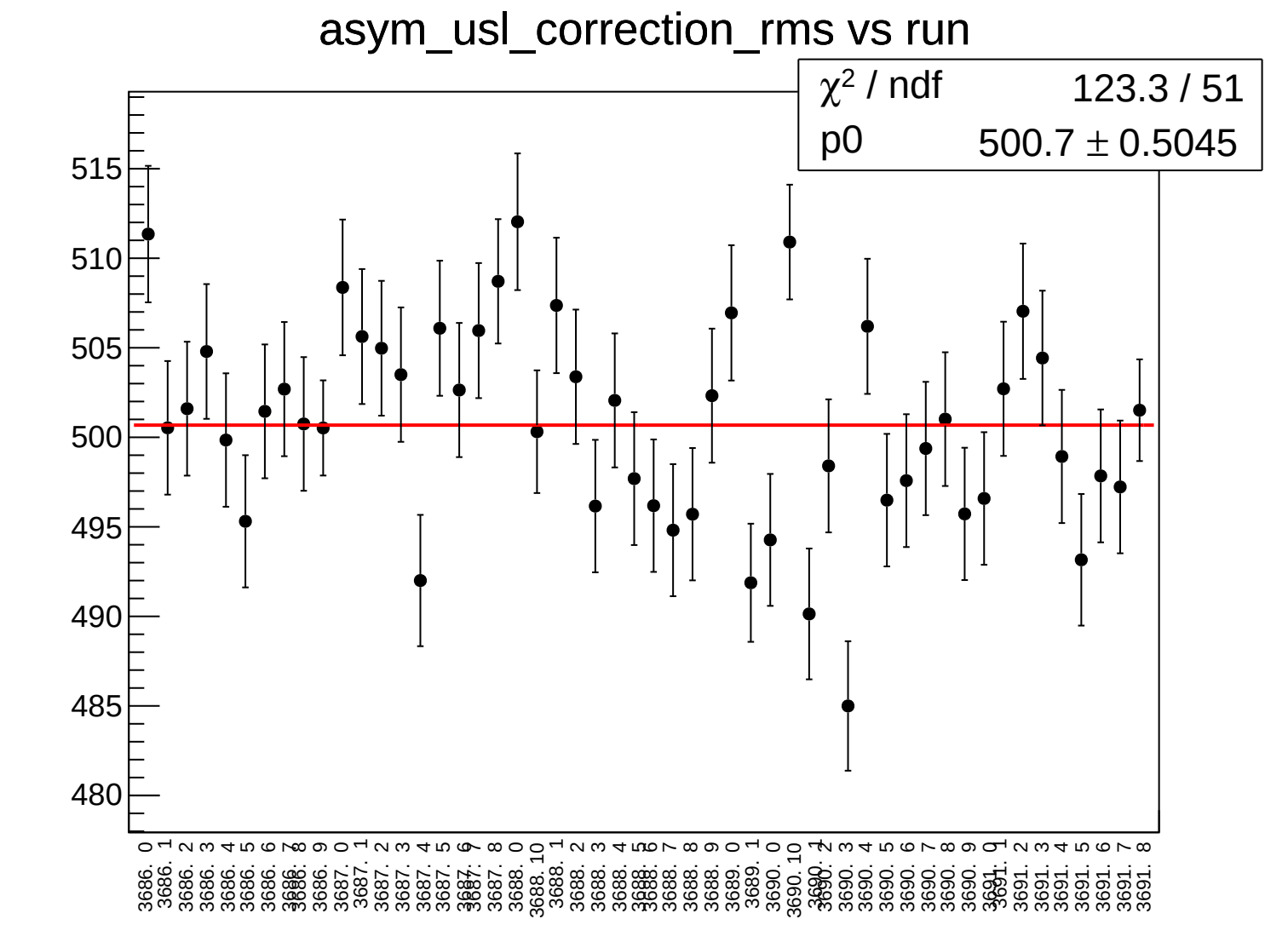

reg_asym_usl_mean vs run
χ² / ndf 55.62 / 51
p0 −487 ± 185.8
pull
Entries 52
Mean −128
Std Dev 326.5

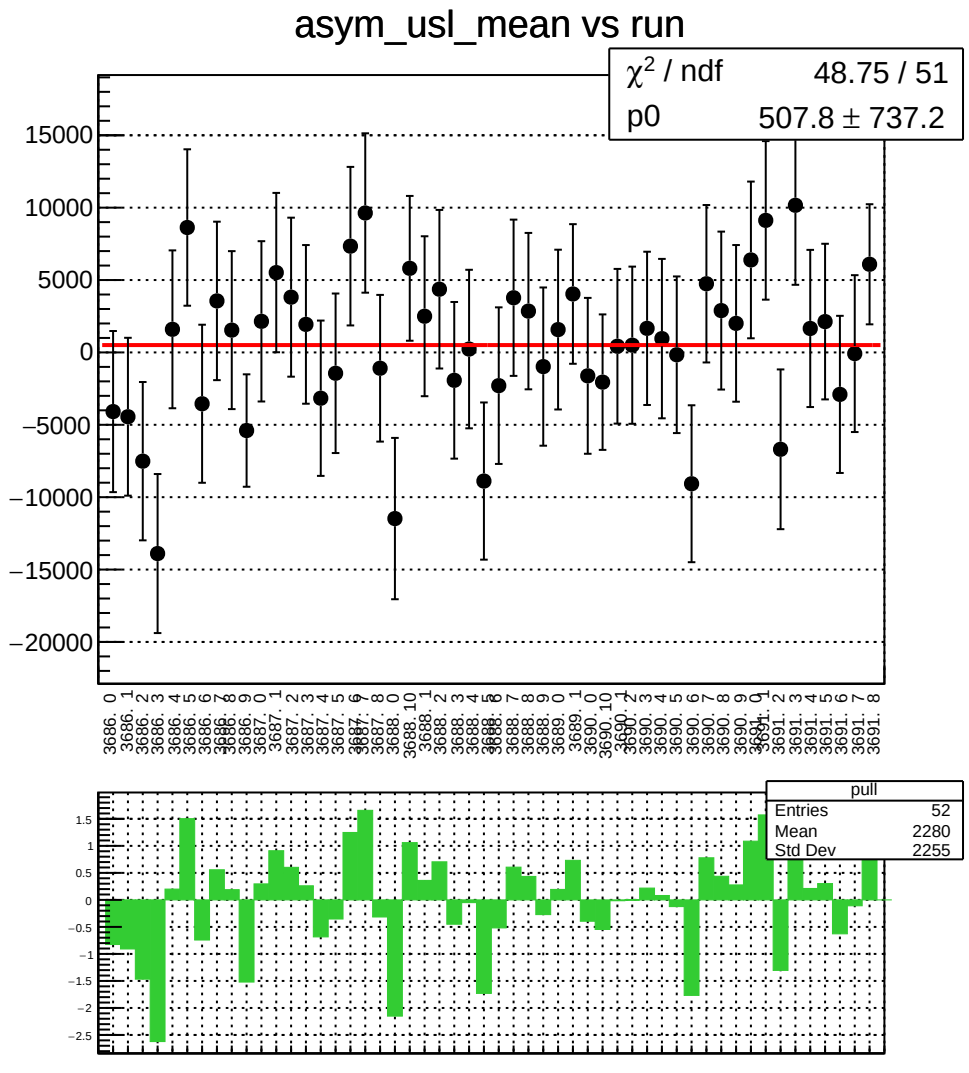

pull1D
Entries 52
Mean 0.0002927
Std Dev 1.034

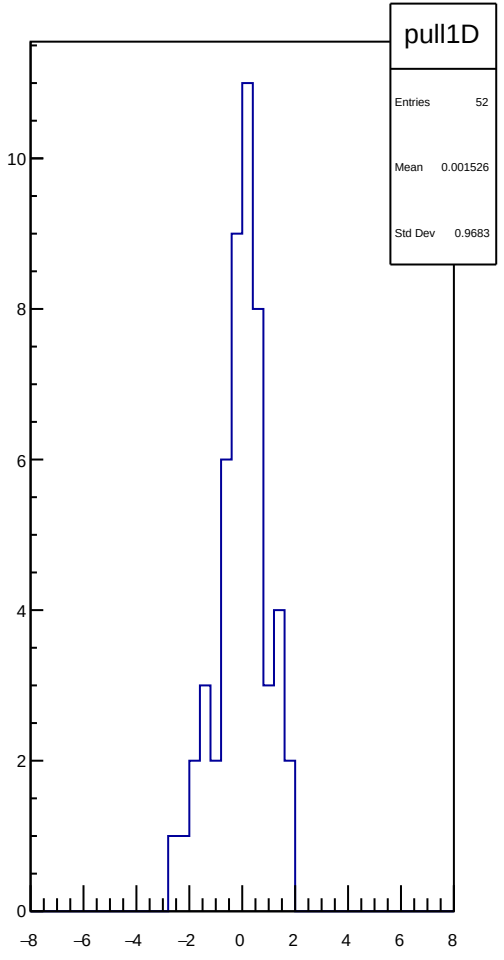

reg_asym_usl_rms vs run
χ² / ndf 100.3 / 51
p0 130.4 ± 0.1314
135
134
133
132
131
130
129
128
127
126
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

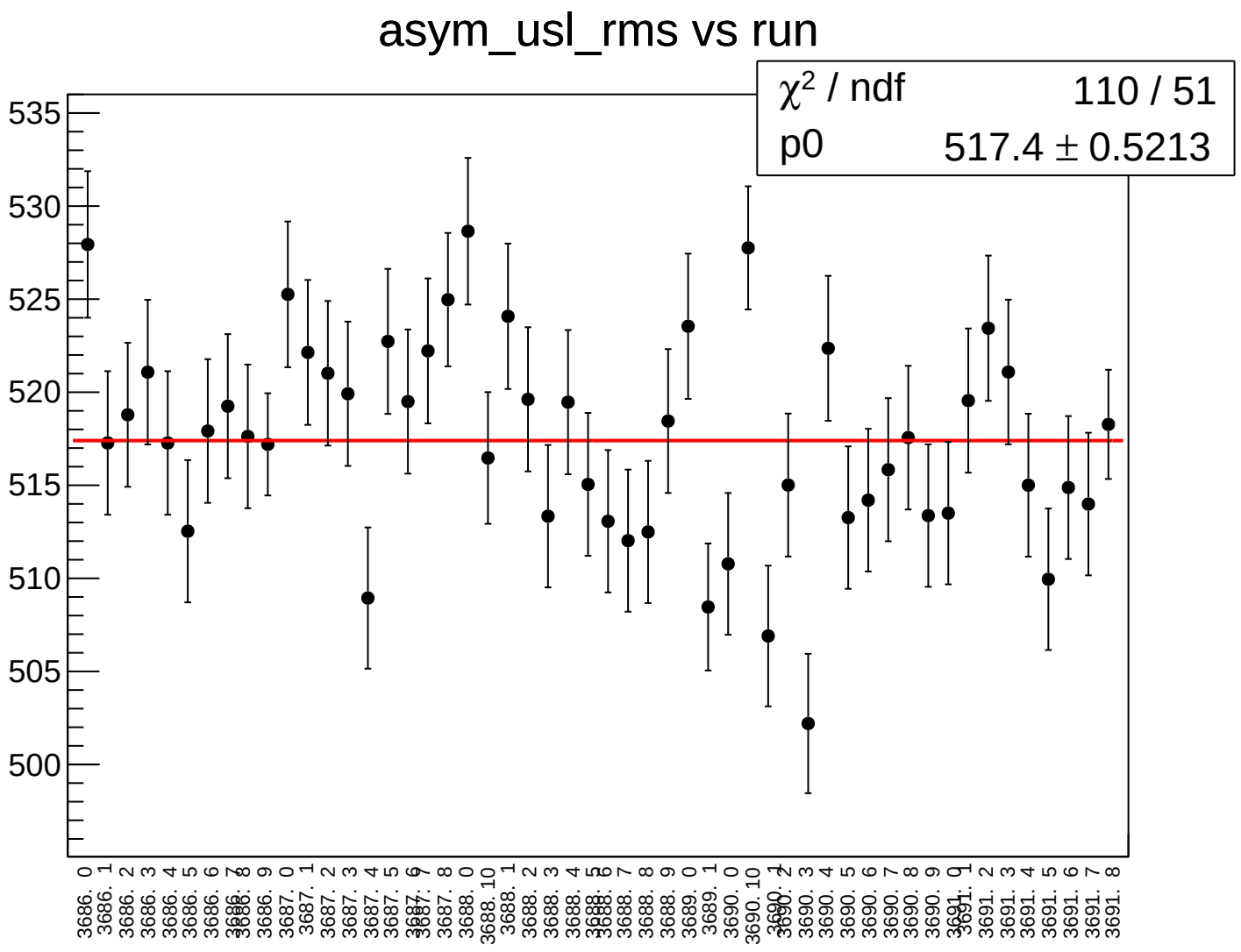

asym_usl_correction_mean vs run
χ² / ndf 42.64 / 51
p0 −999.9 ± 713.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 52
Mean 3528
Std Dev 3503
2
1.5
1
0.5
0
−0.5
−1
−1.5

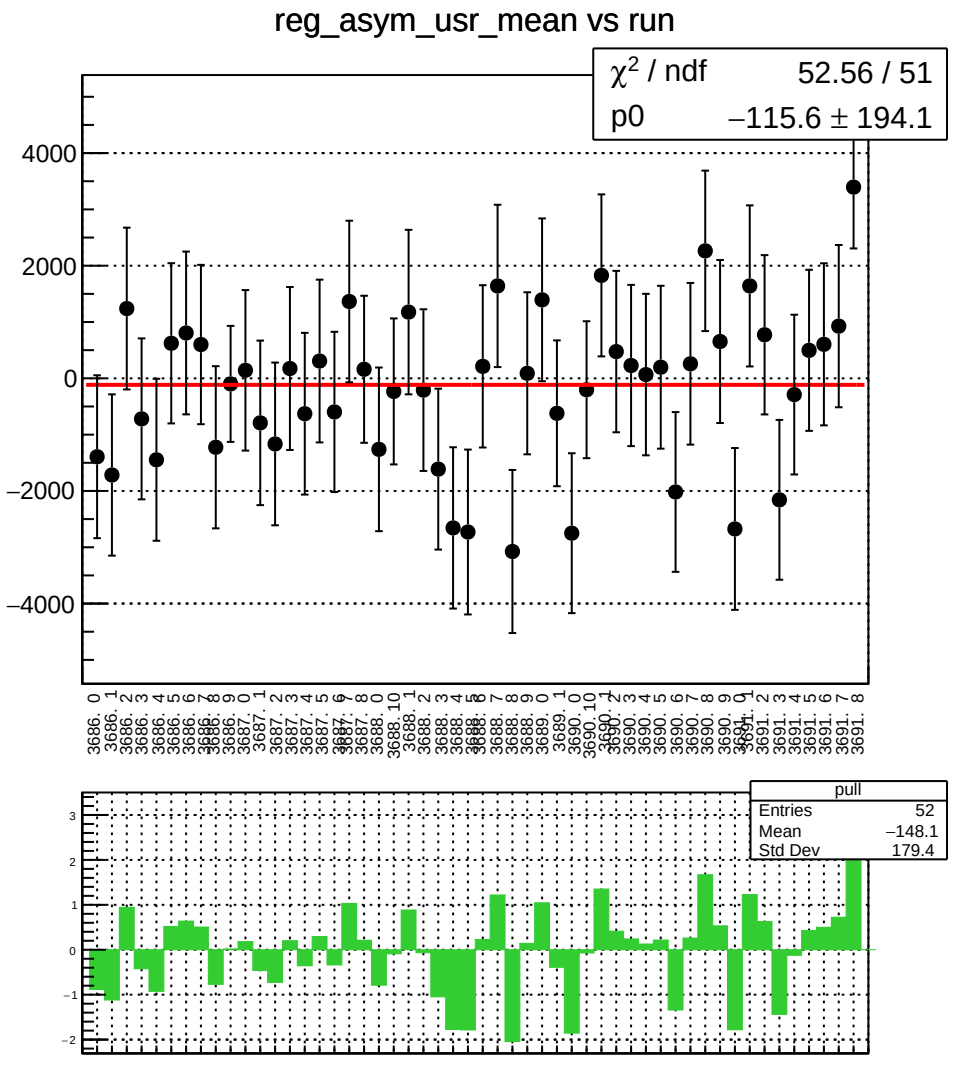

pull1D
Entries 52
Mean −0.001022
Std Dev 0.9055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

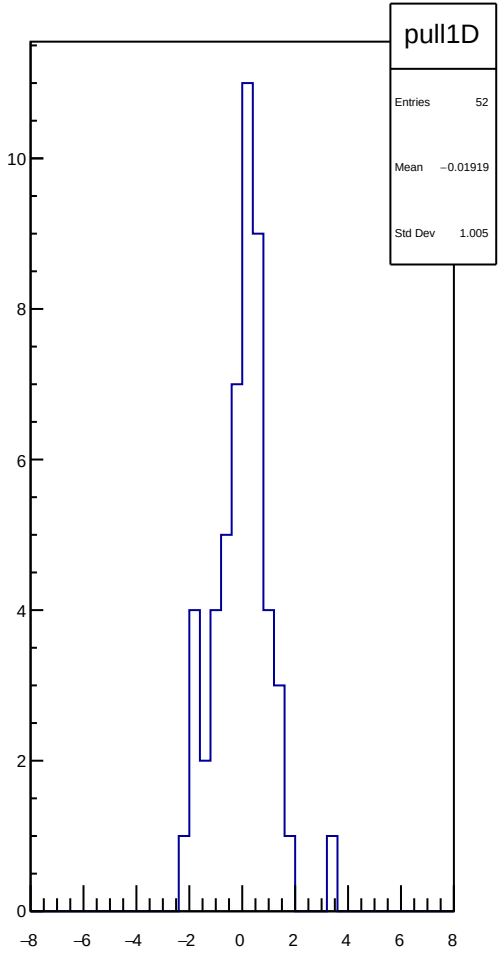

asym_usl_correction_rms vs run
χ² / ndf 123.3 / 51
p0 500.7 ± 0.5045
515
510
505
500
495
490
485
480
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

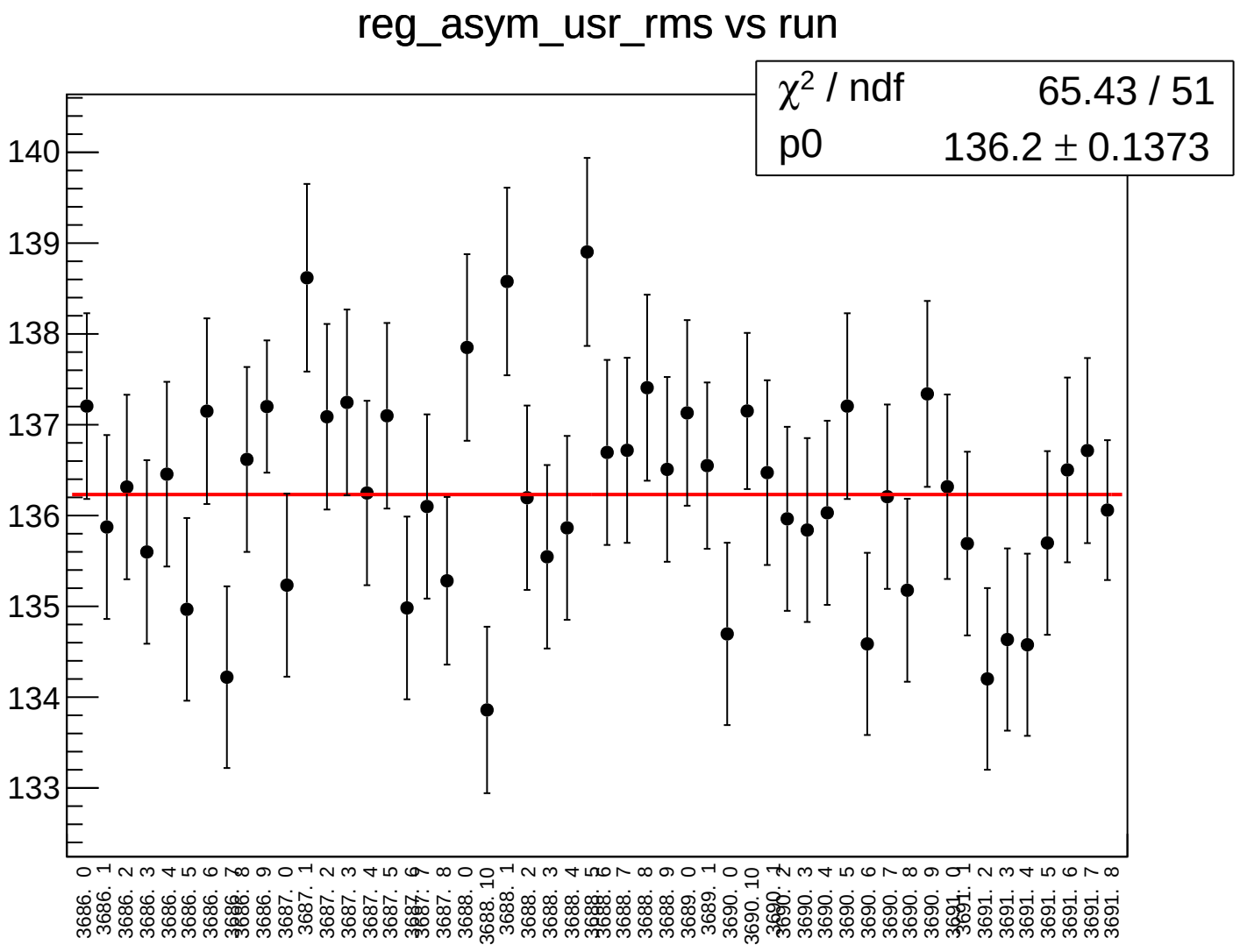

asym_usl_mean vs run
χ² / ndf 48.75 / 51
p0 507.8 ± 737.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 52
Mean 2280
Std Dev 2255
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

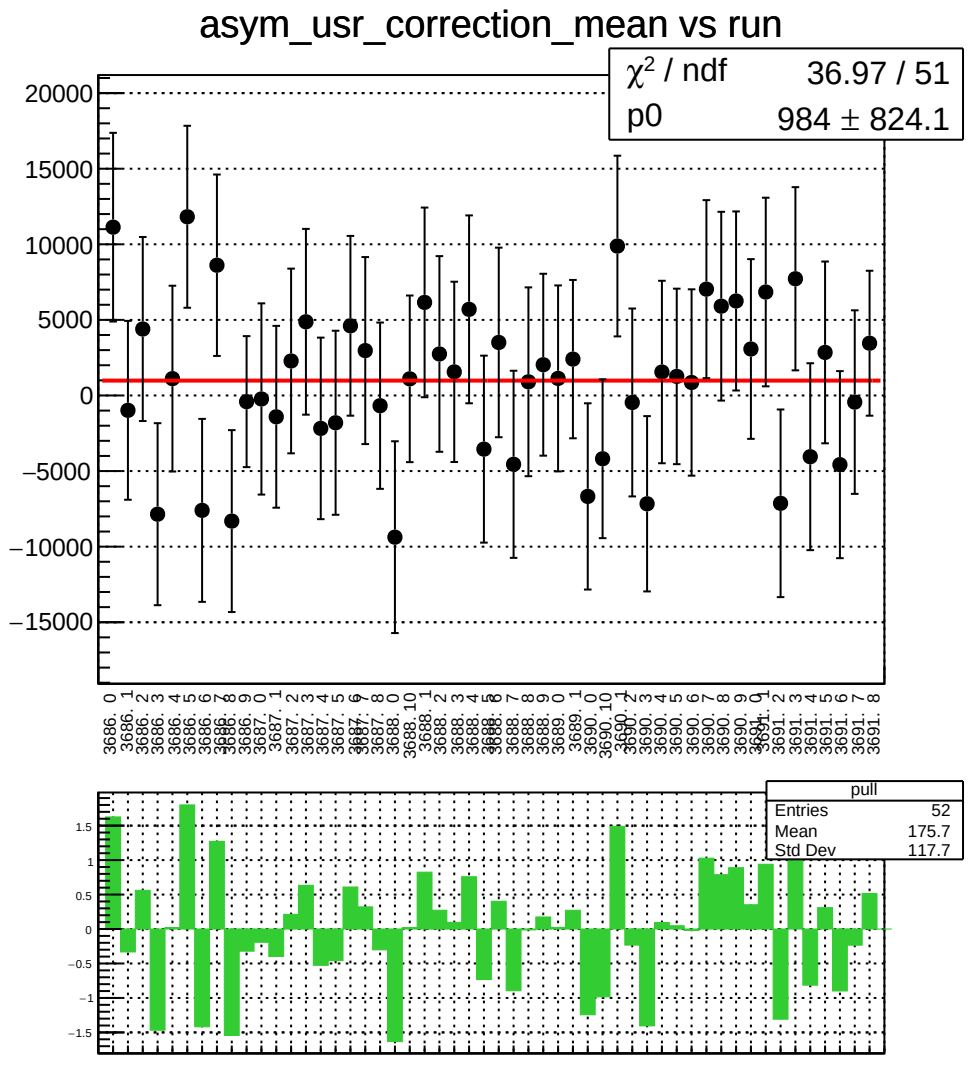

pull1D
Entries 52
Mean 0.001526
Std Dev 0.9683
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

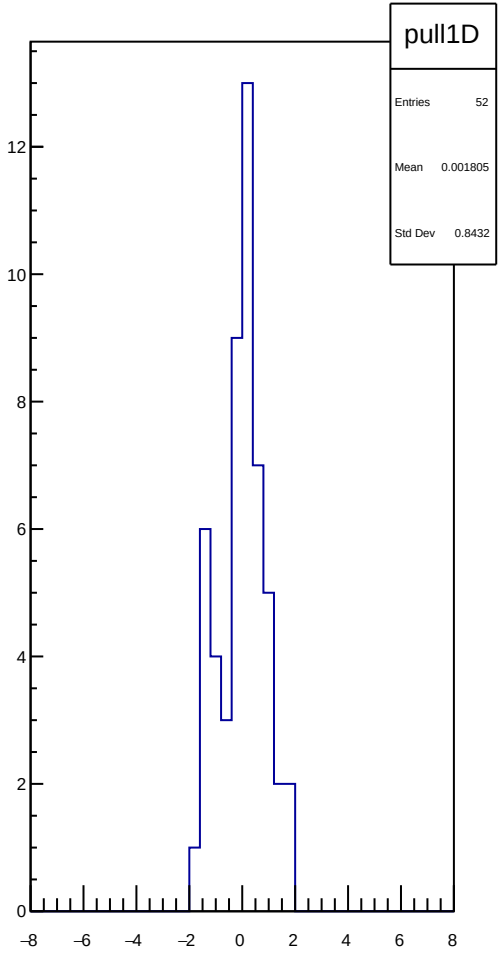

asym_usl_rms vs run
χ² / ndf 110 / 51
p0 517.4 ± 0.5213
535
530
525
520
515
510
505
500
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

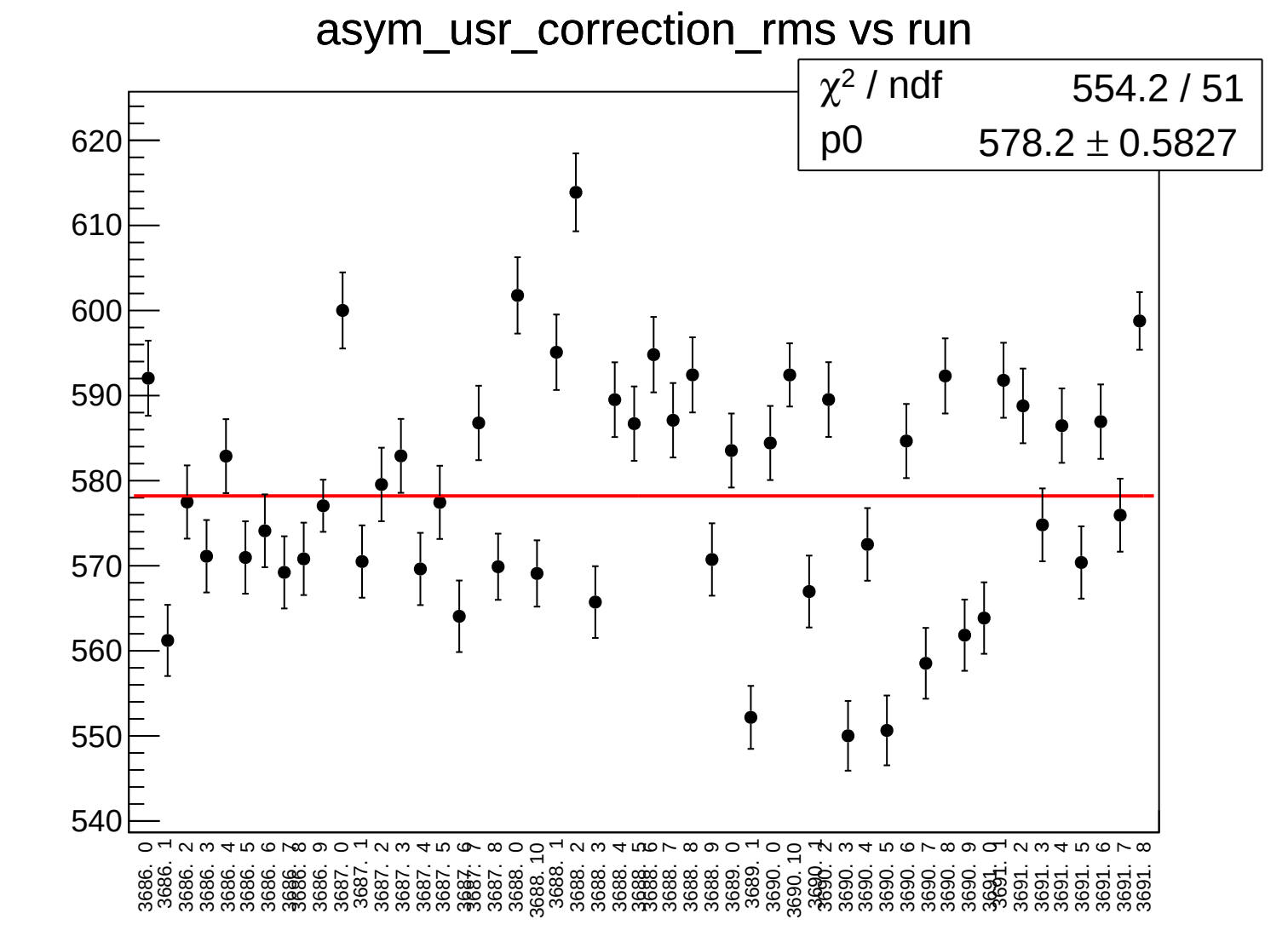

reg_asym_usr_mean vs run
χ² / ndf 52.56 / 51
p0 −115.6 ± 194.1
4000
2000
0
−2000
−4000
pull
Entries 52
Mean −148.1
Std Dev 179.4
3
2
1
0
−1
−2

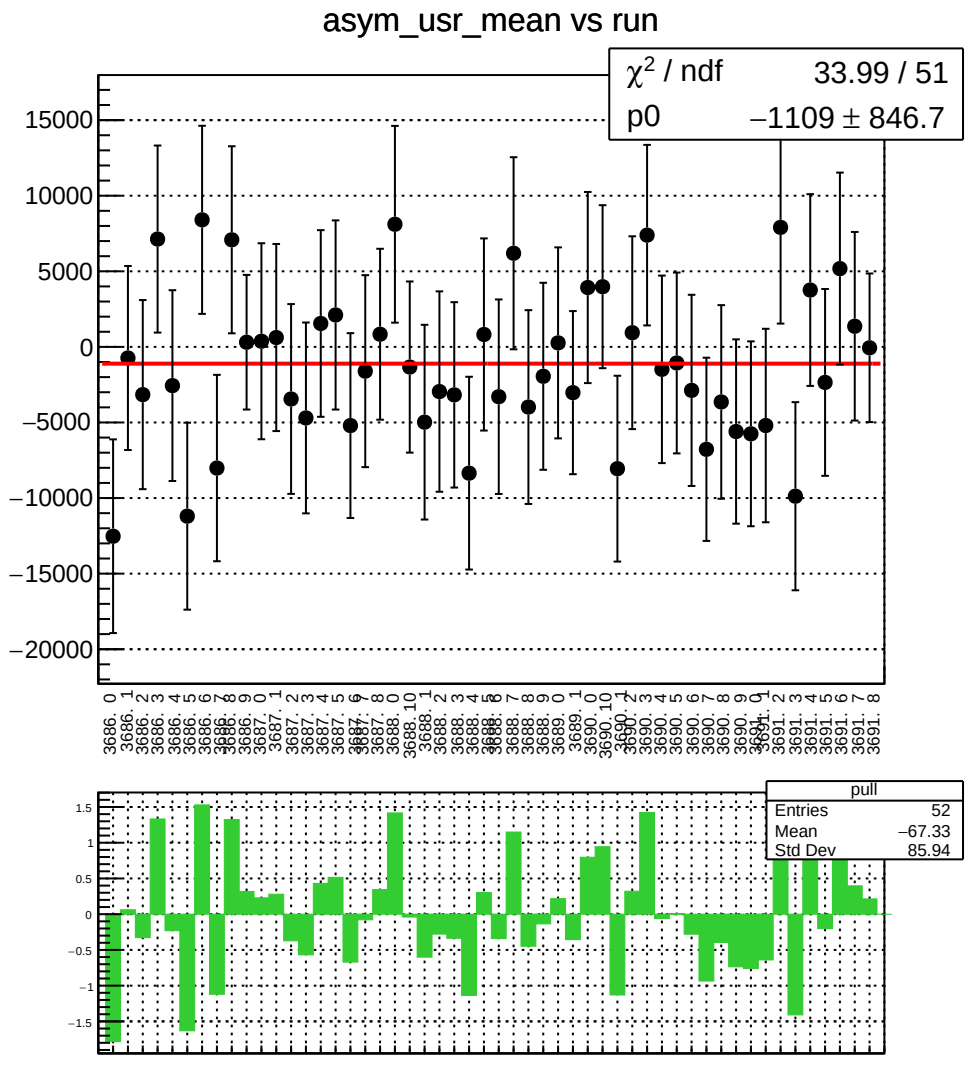

pull1D
Entries 52
Mean −0.01919
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

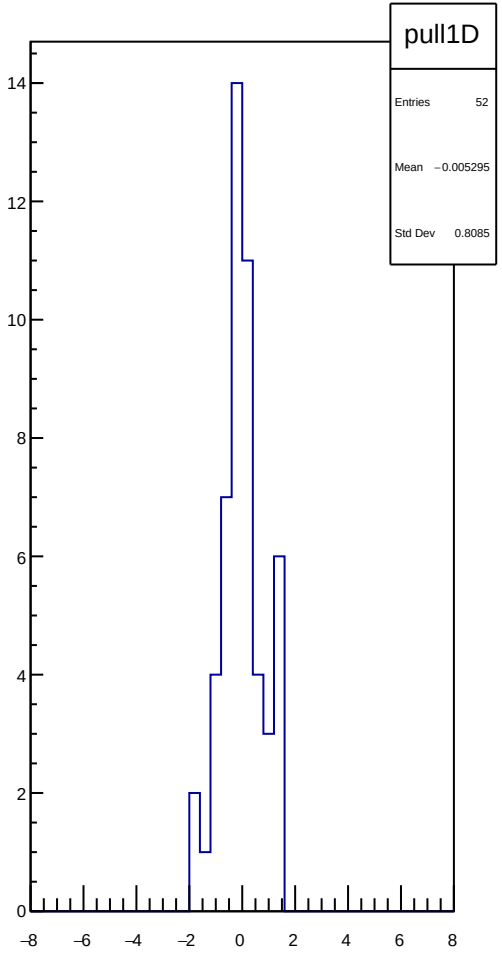

reg_asym_usr_rms vs run
χ² / ndf 65.43 / 51
p0 136.2 ± 0.1373
140
139
138
137
136
135
134
133
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

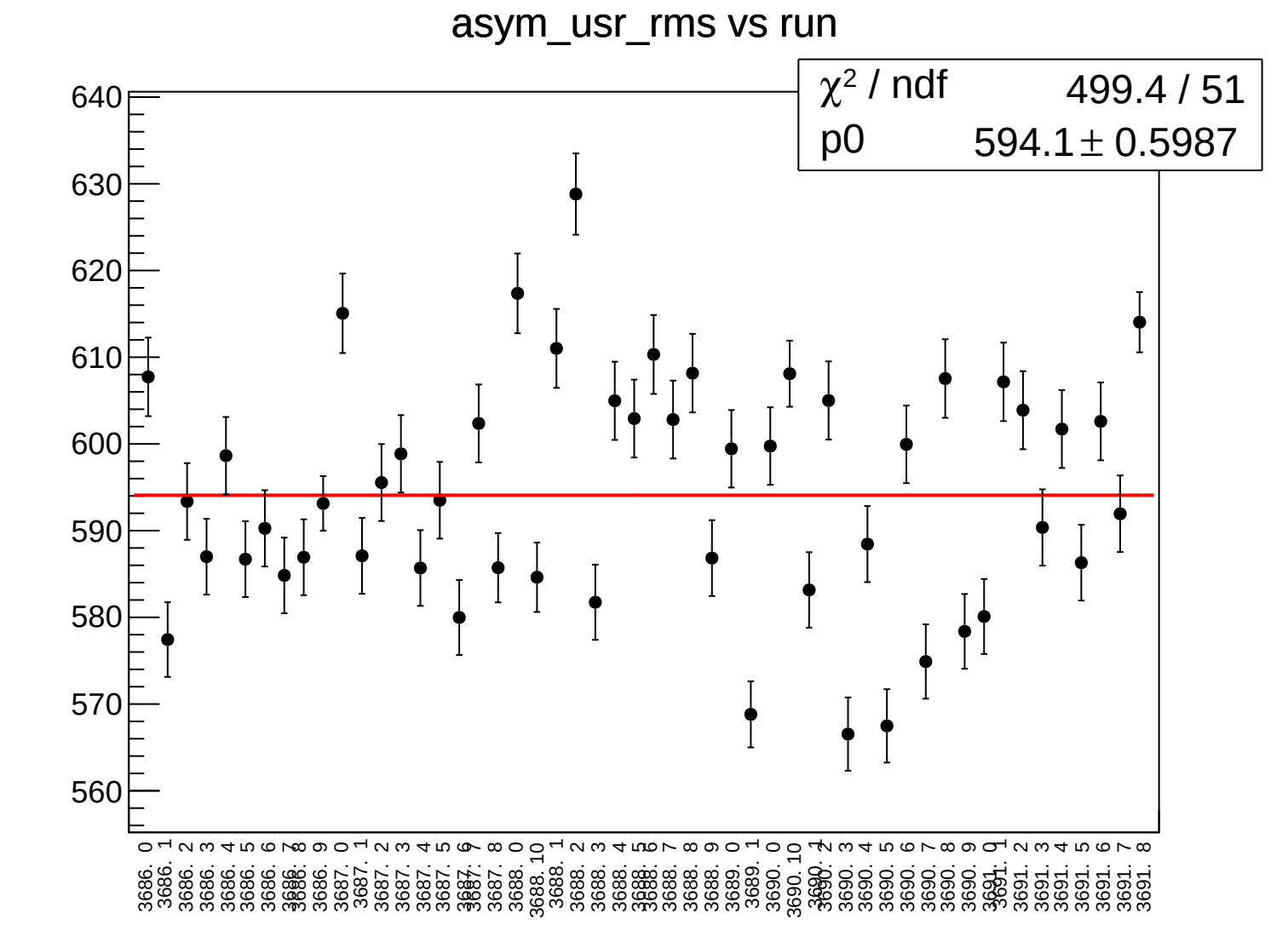

asym_usr_correction_mean vs run
χ² / ndf 36.97 / 51
p0 984 ± 824.1
pull
Entries 52
Mean 175.7
Std Dev 117.7

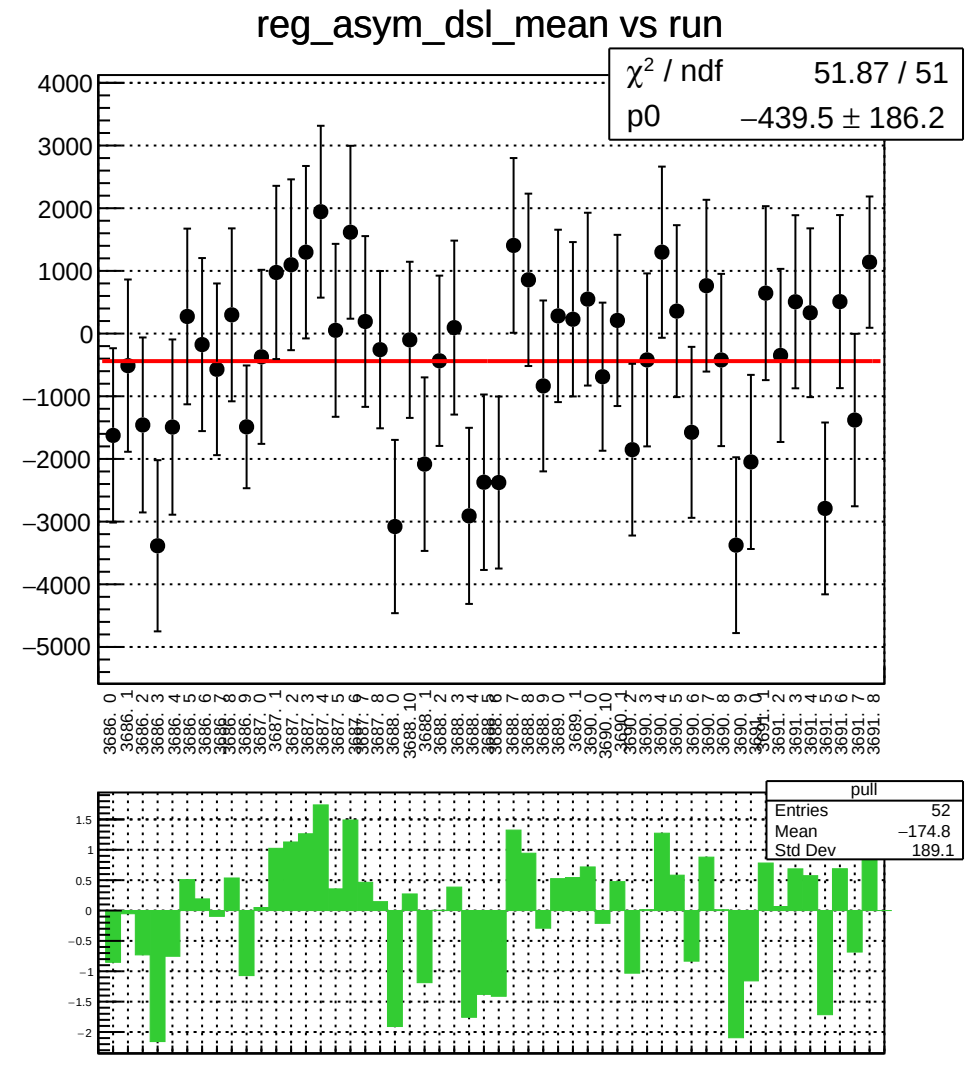

pull1D
Entries 52
Mean 0.001805
Std Dev 0.8432

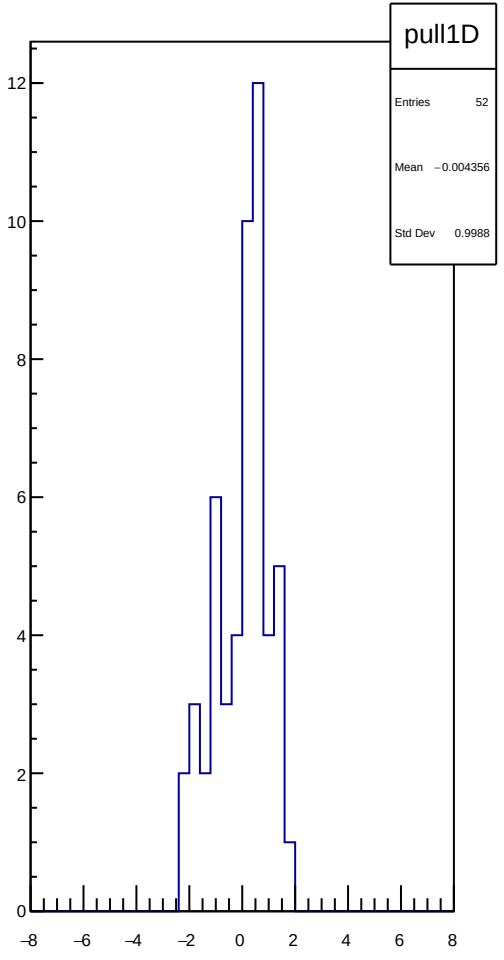

asym_usr_correction_rms vs run
χ² / ndf 554.2 / 51
p0 578.2 ± 0.5827
620
610
600
590
580
570
560
550
540
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

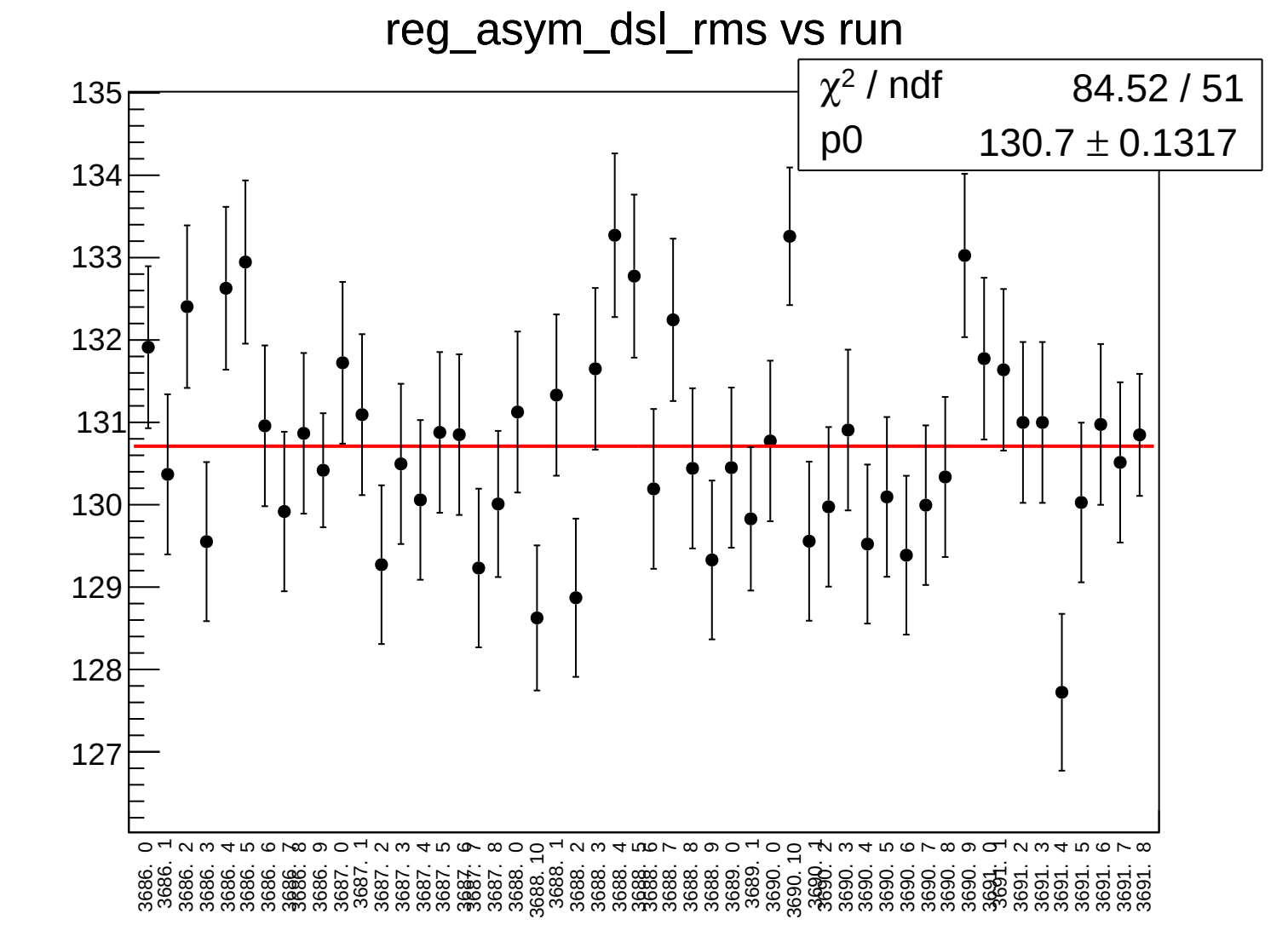

asym_usr_mean vs run
χ² / ndf 33.99 / 51
p0 −1109 ± 846.7
pull
Entries 52
Mean −67.33
Std Dev 85.94

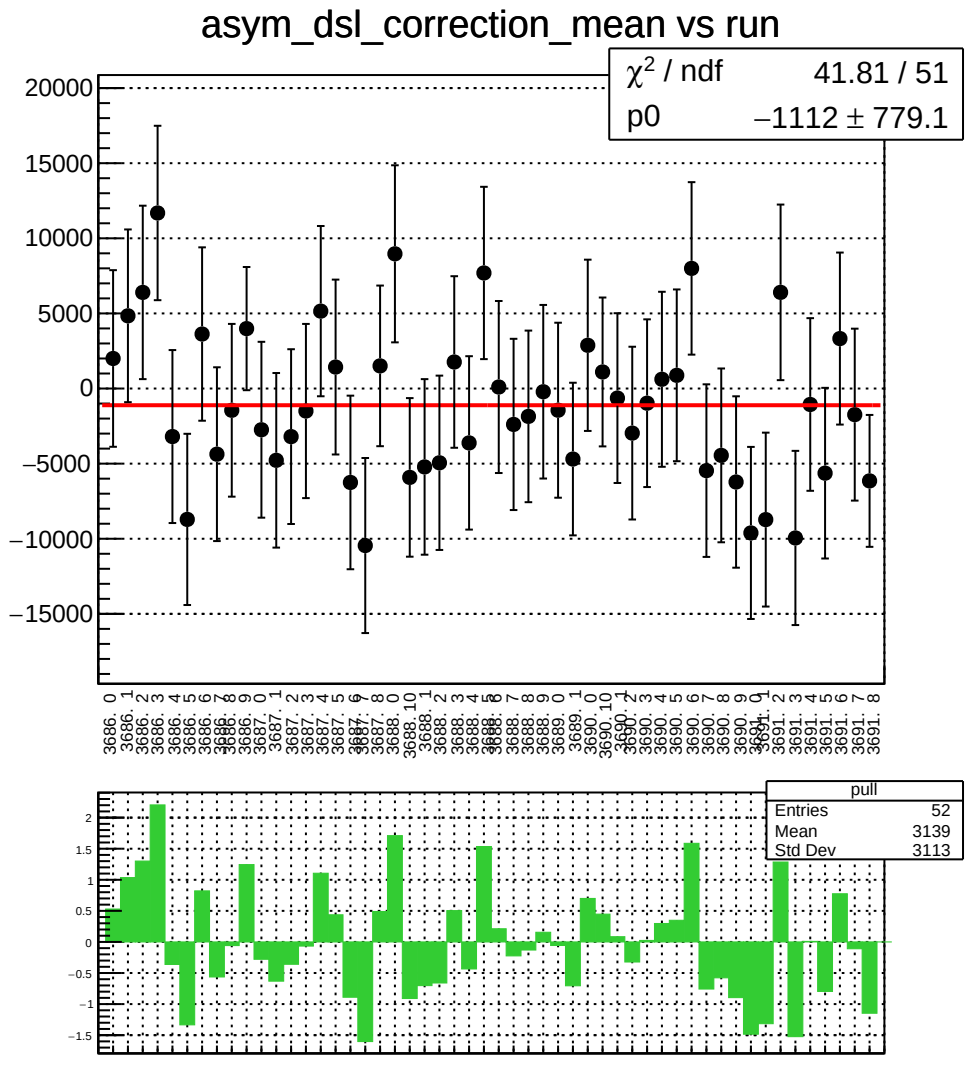

pull1D
Entries 52
Mean −0.005295
Std Dev 0.8085

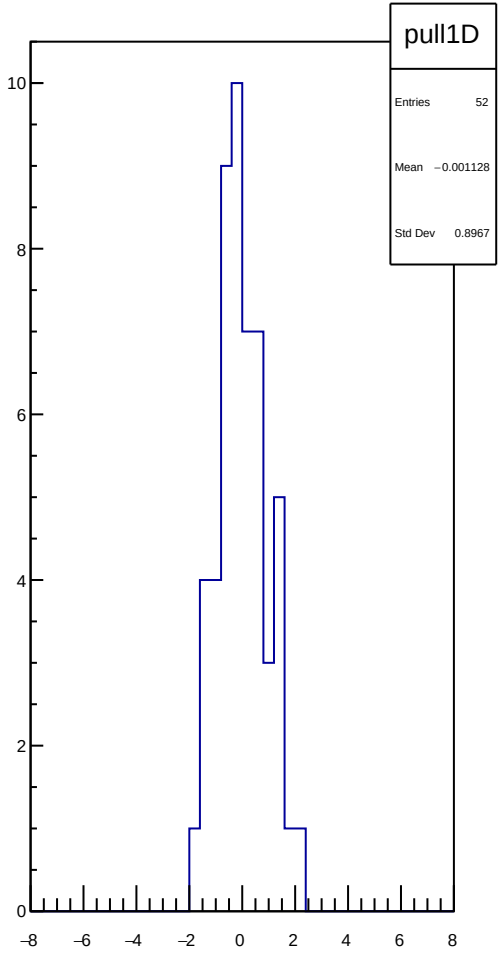

asym_usr_rms vs run
χ² / ndf 499.4 / 51
p0 594.1 ± 0.5987
640
630
620
610
600
590
580
570
560
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

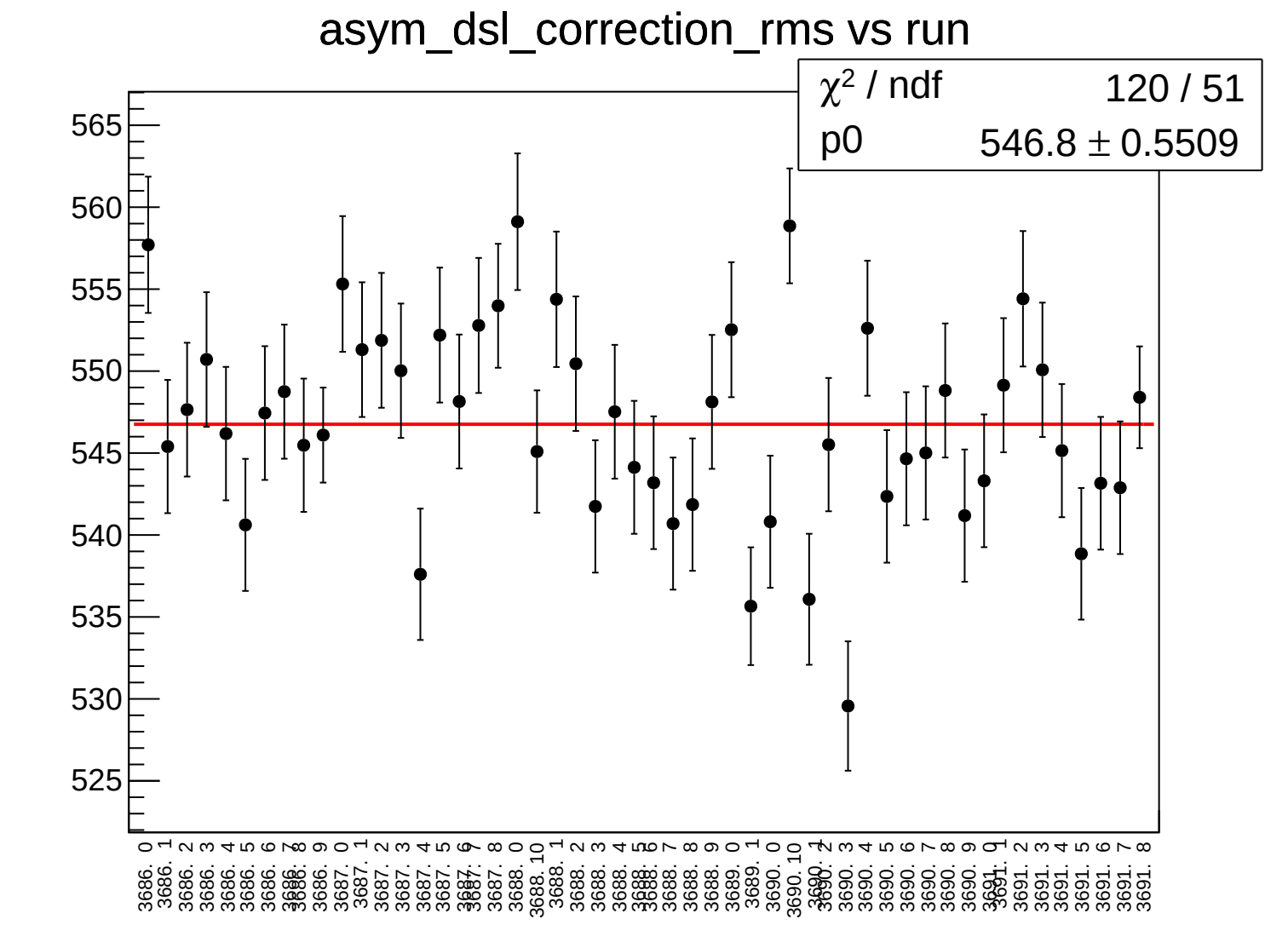

reg_asym_dsl_mean vs run
χ² / ndf 51.87 / 51
p0 −439.5 ± 186.2
pull
Entries 52
Mean −174.8
Std Dev 189.1


pull1D
Entries 52
Mean −0.004356
Std Dev 0.9988


reg_asym_dsl_rms vs run
χ² / ndf 84.52 / 51
p0 130.7 ± 0.1317
135
134
133
132
131
130
129
128
127
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


asym_dsl_correction_mean vs run
χ² / ndf 41.81 / 51
p0 −1112 ± 779.1
pull
Entries 52
Mean 3139
Std Dev 3113


pull1D
Entries 52
Mean −0.001128
Std Dev 0.8967


asym_dsl_correction_rms vs run
χ² / ndf 120 / 51
p0 546.8 ± 0.5509
565
560
555
550
545
540
535
530
525
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
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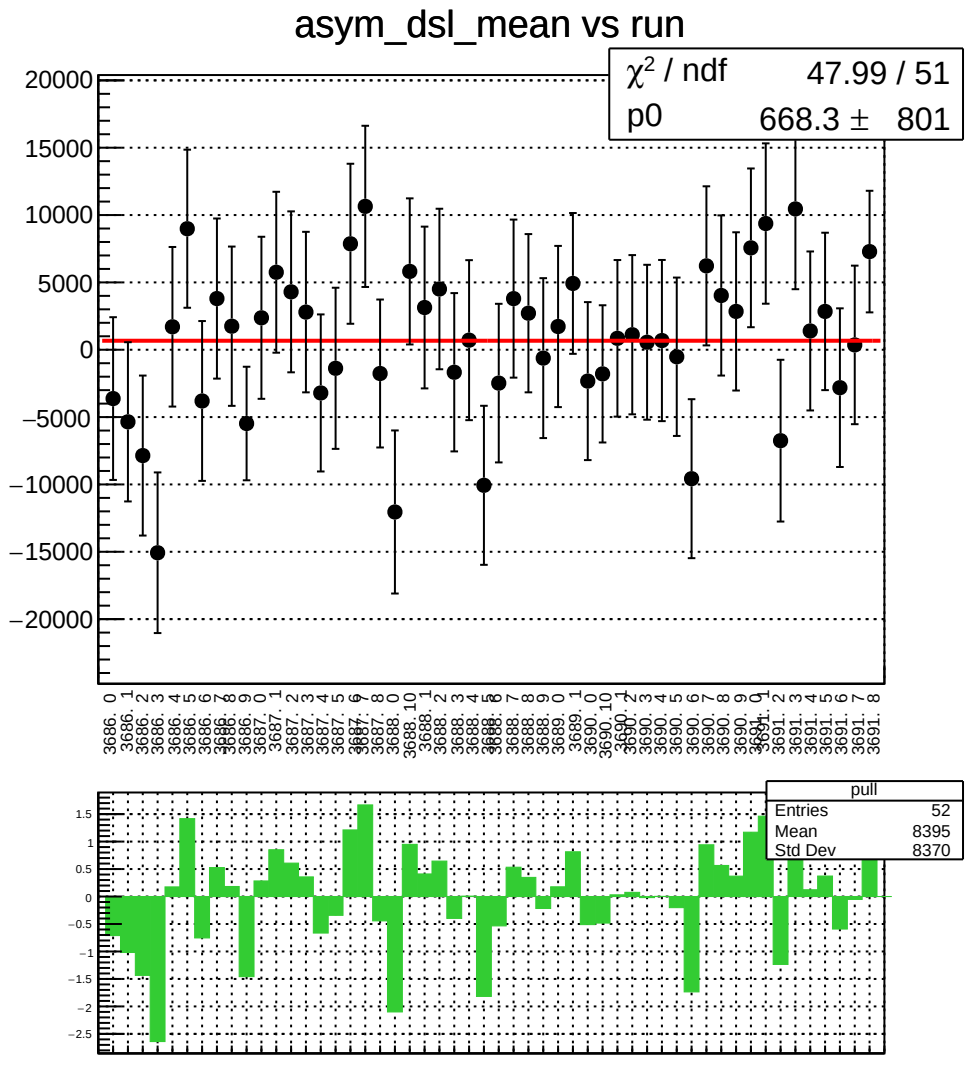
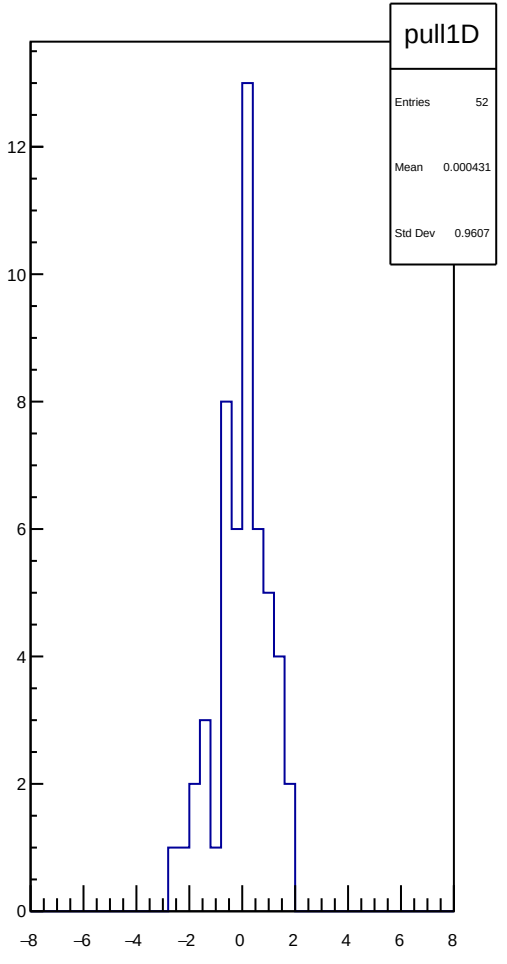
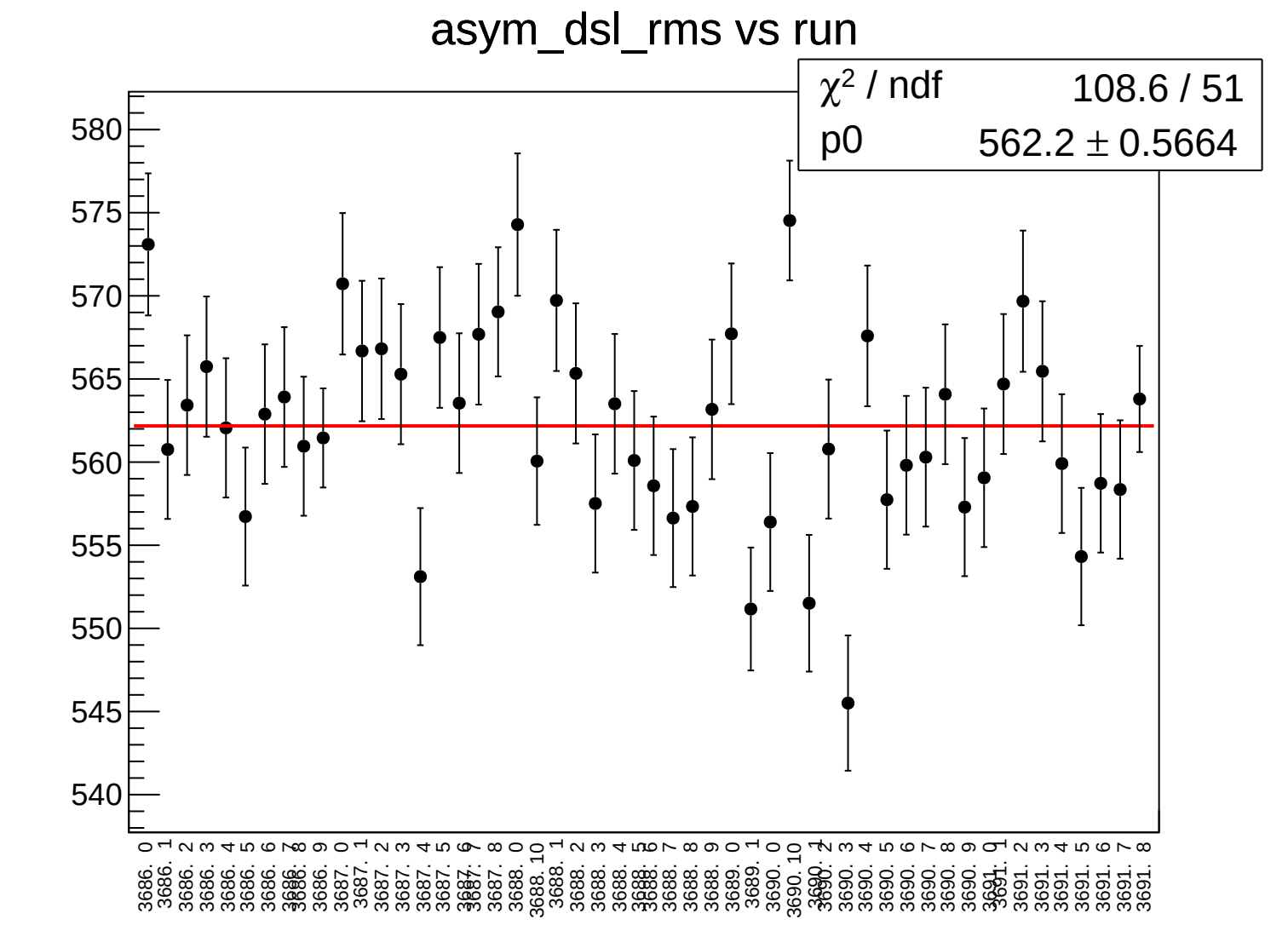
3691. 7
3691. 8


asym_dsl_mean vs run
χ² / ndf 47.99 / 51
p0 668.3 ± 801
pull
Entries 52
Mean 8395
Std Dev 8370


pull1D
Entries 52
Mean 0.000431
Std Dev 0.9607


asym_dsl_rms vs run
χ^2 / ndf 108.6 / 51
p0 562.2 ± 0.5664
580
575
570
565
560
555
550
545
540
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
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3691. 4
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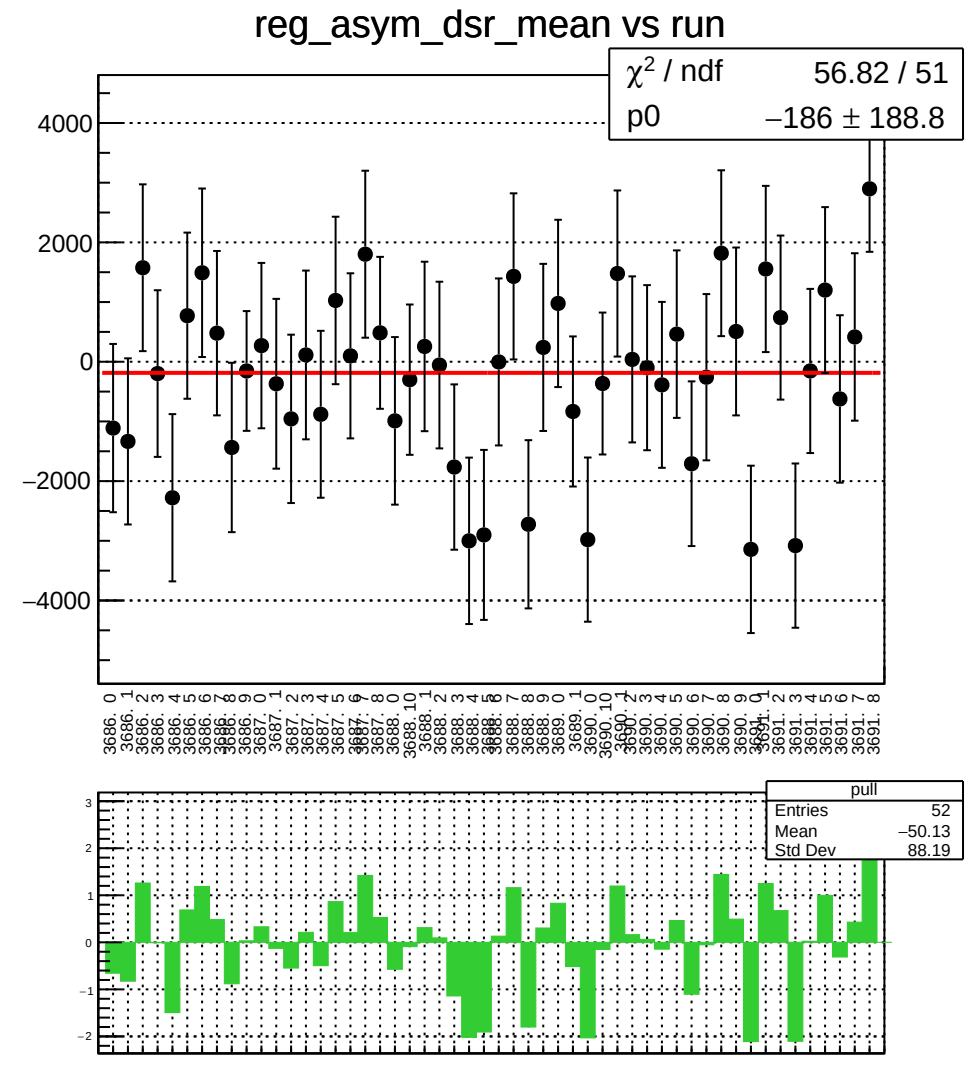
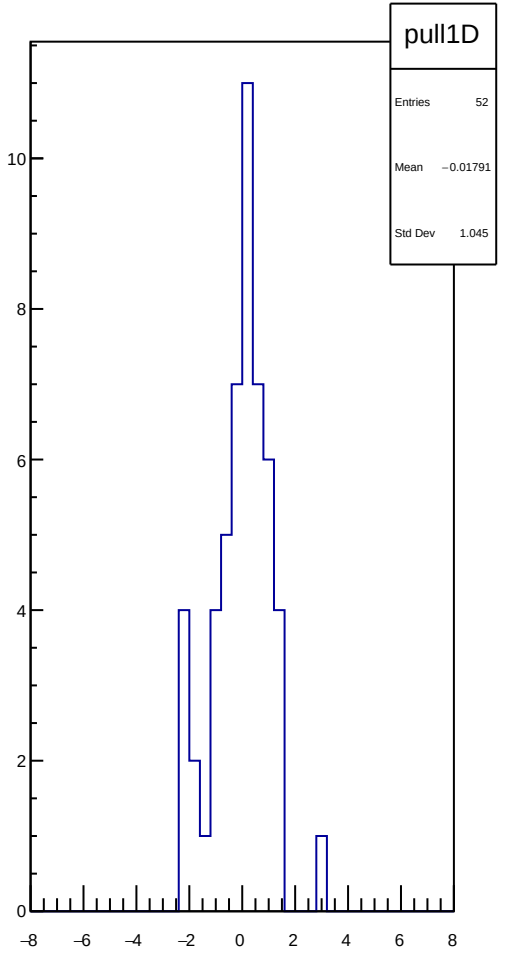
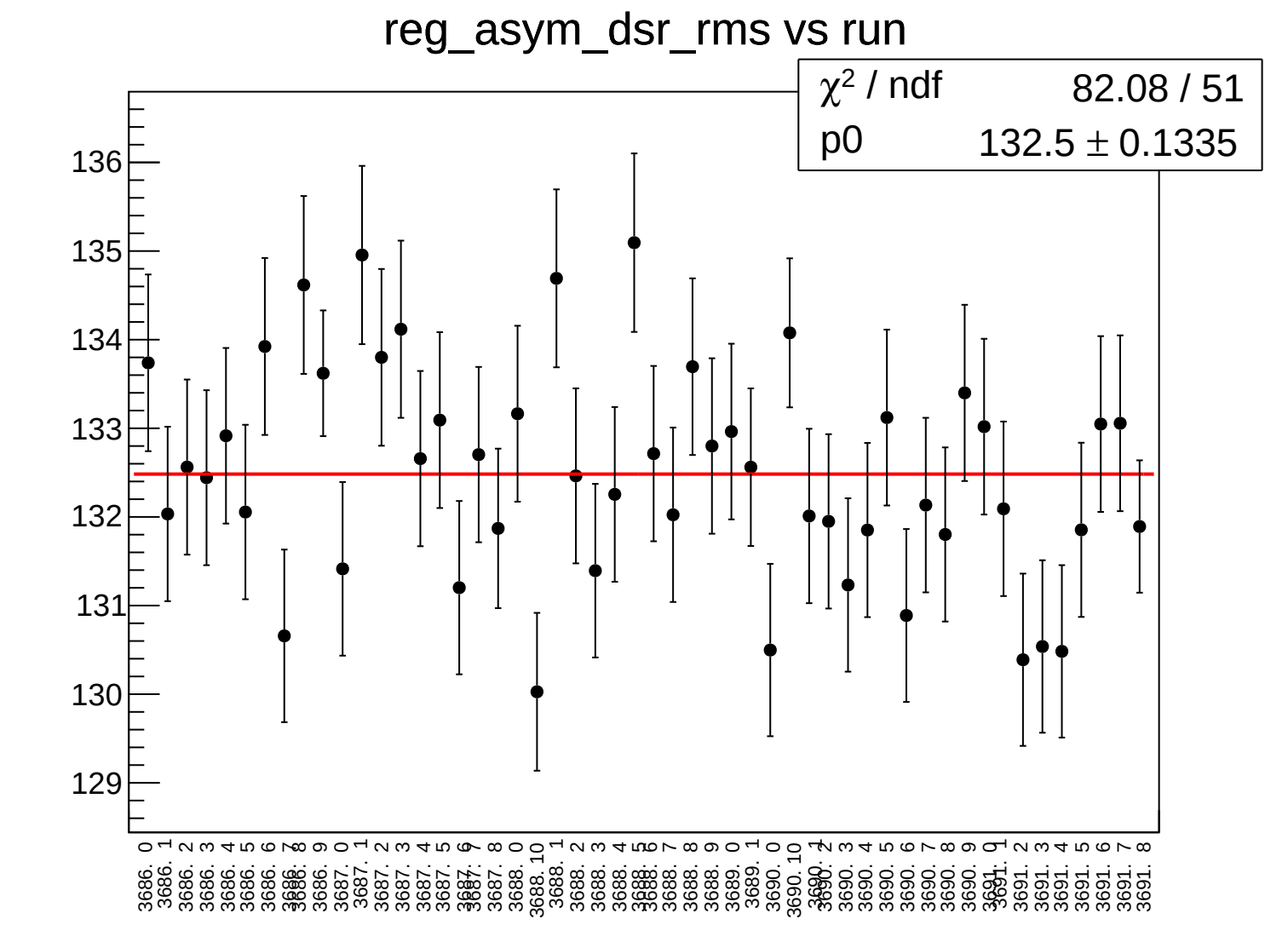
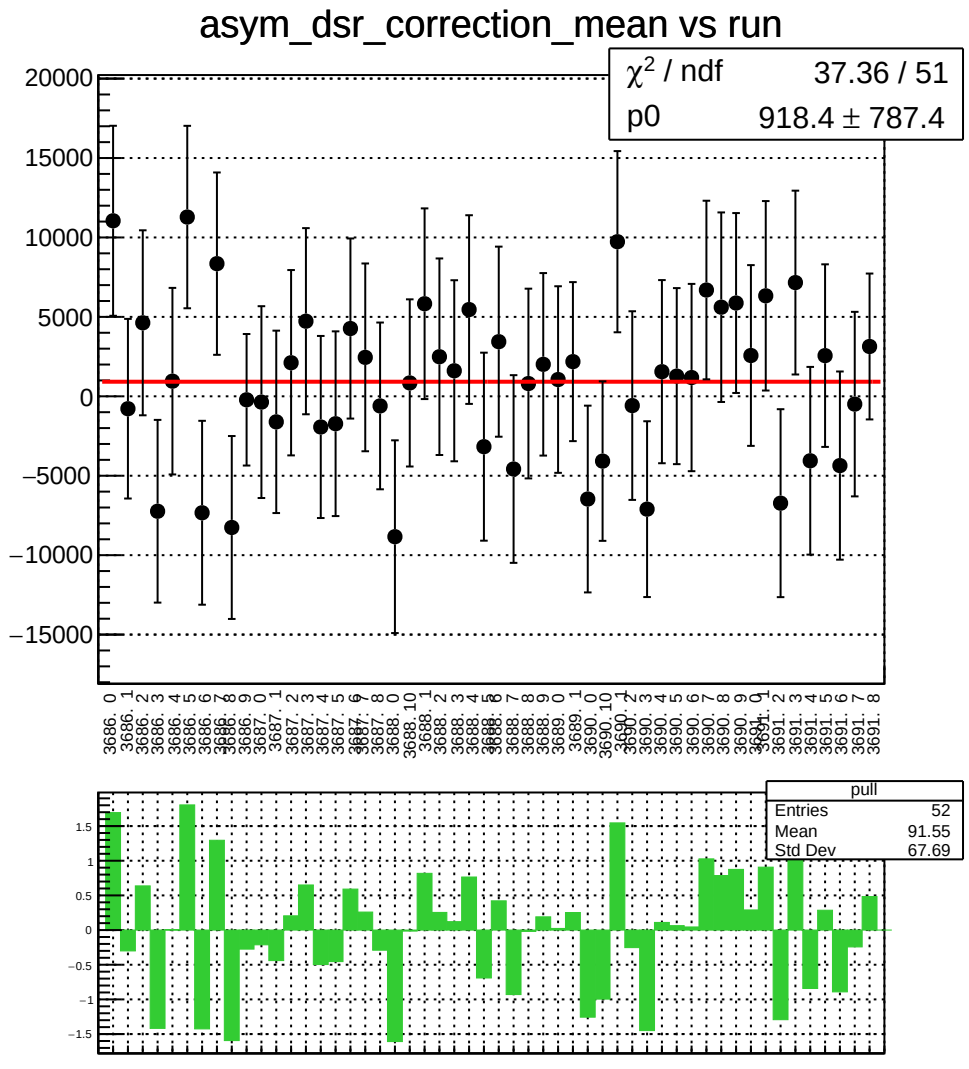
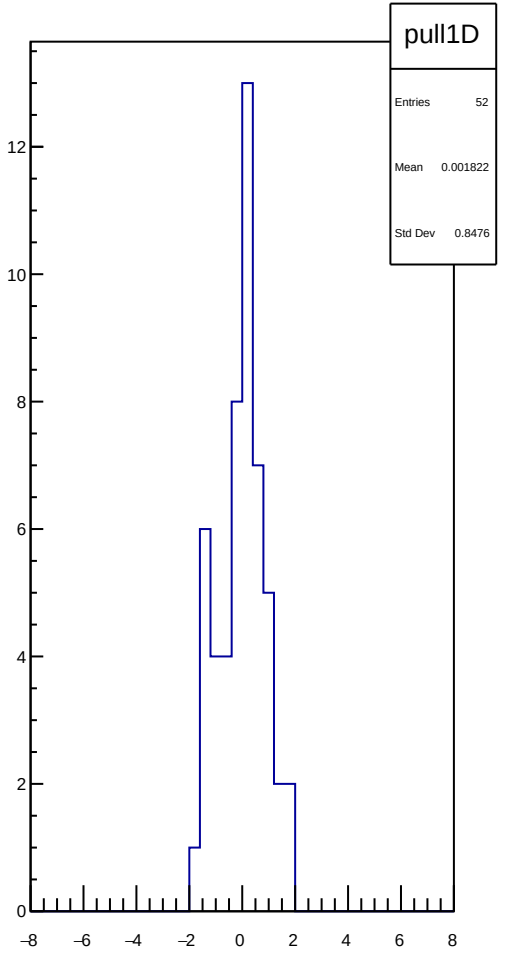
3691. 6
3691. 7
3691. 8

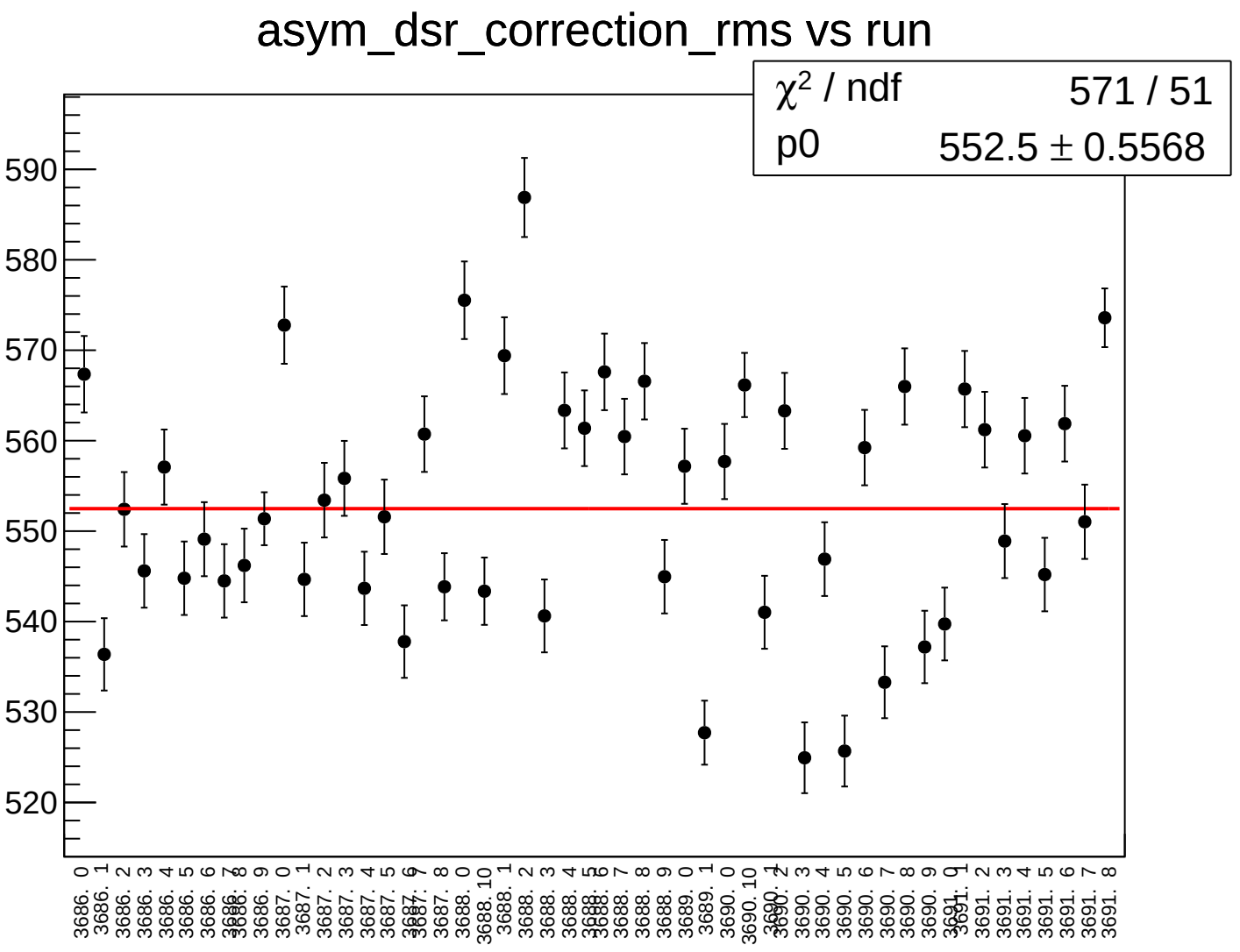

reg_asym_dsr_mean vs run
χ² / ndf 56.82 / 51
p0 −186 ± 188.8
4000
2000
0
−2000
−4000
pull
Entries 52
Mean −50.13
Std Dev 88.19
3
2
1
0
−1
−2


pull1D
Entries 52
Mean −0.01791
Std Dev 1.045
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_rms vs run
χ² / ndf 82.08 / 51
p0 132.5 ± 0.1335
136
135
134
133
132
131
130
129
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


asym_dsr_correction_mean vs run
χ² / ndf 37.36 / 51
p0 918.4 ± 787.4
pull
Entries 52
Mean 91.55
Std Dev 67.69


pull1D
Entries 52
Mean 0.001822
Std Dev 0.8476


asym_dsr_correction_rms vs run
χ² / ndf 571 / 51
p0 552.5 ± 0.5568
590
580
570
560
550
540
530
520
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
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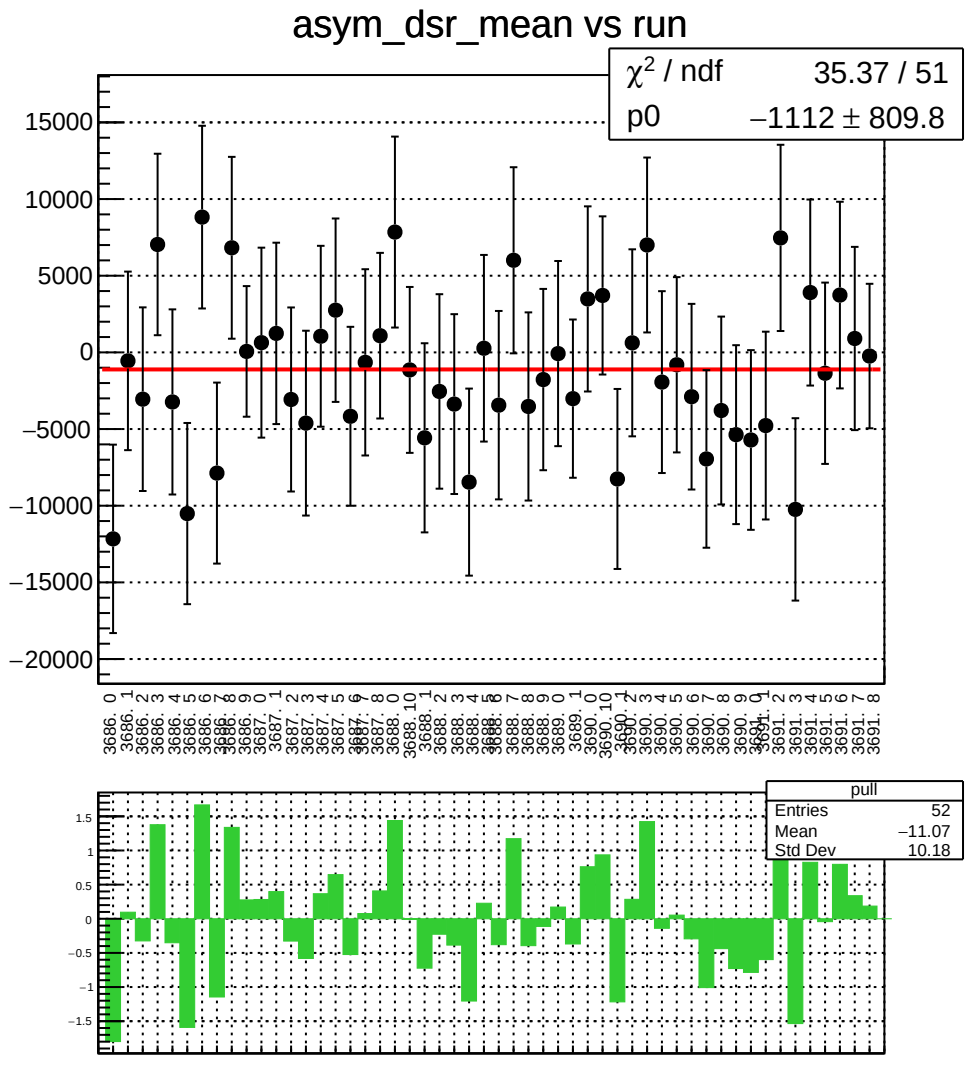
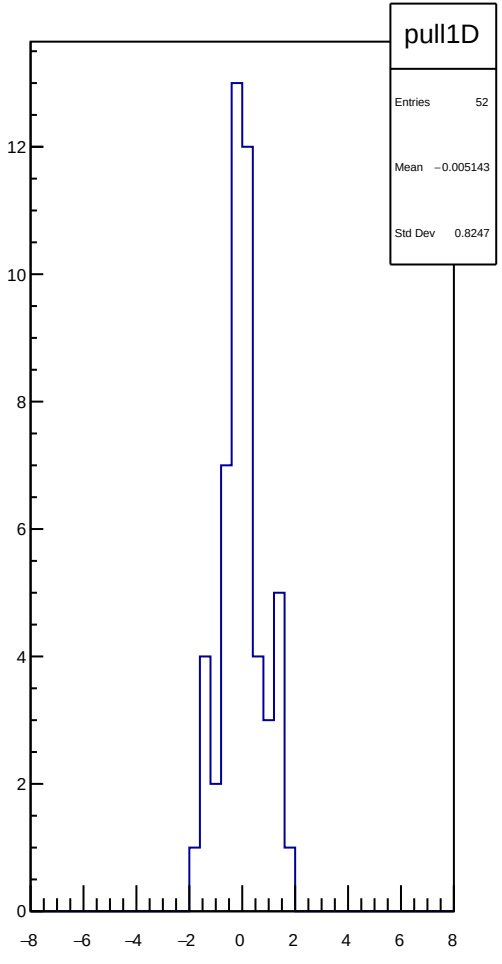
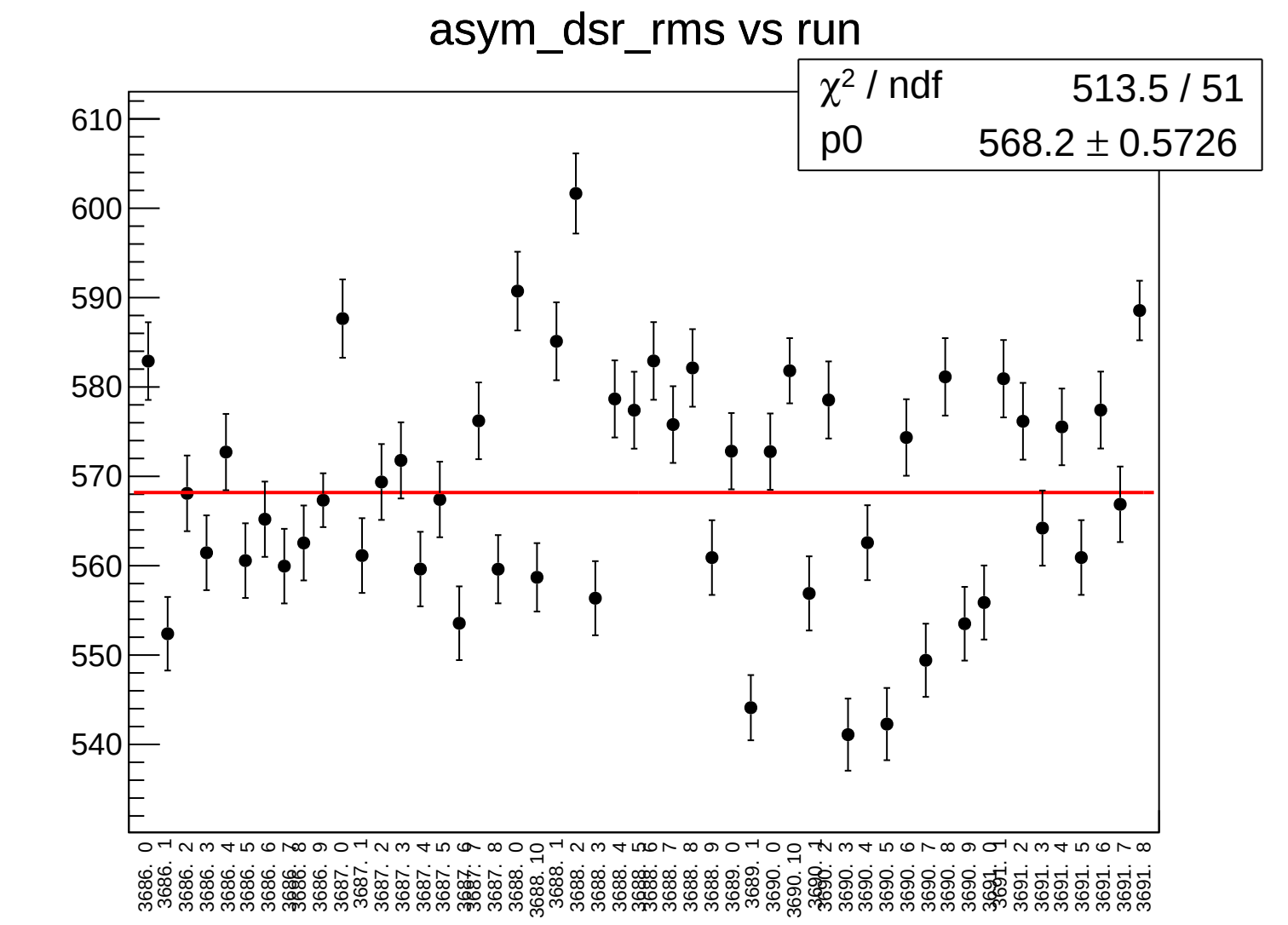
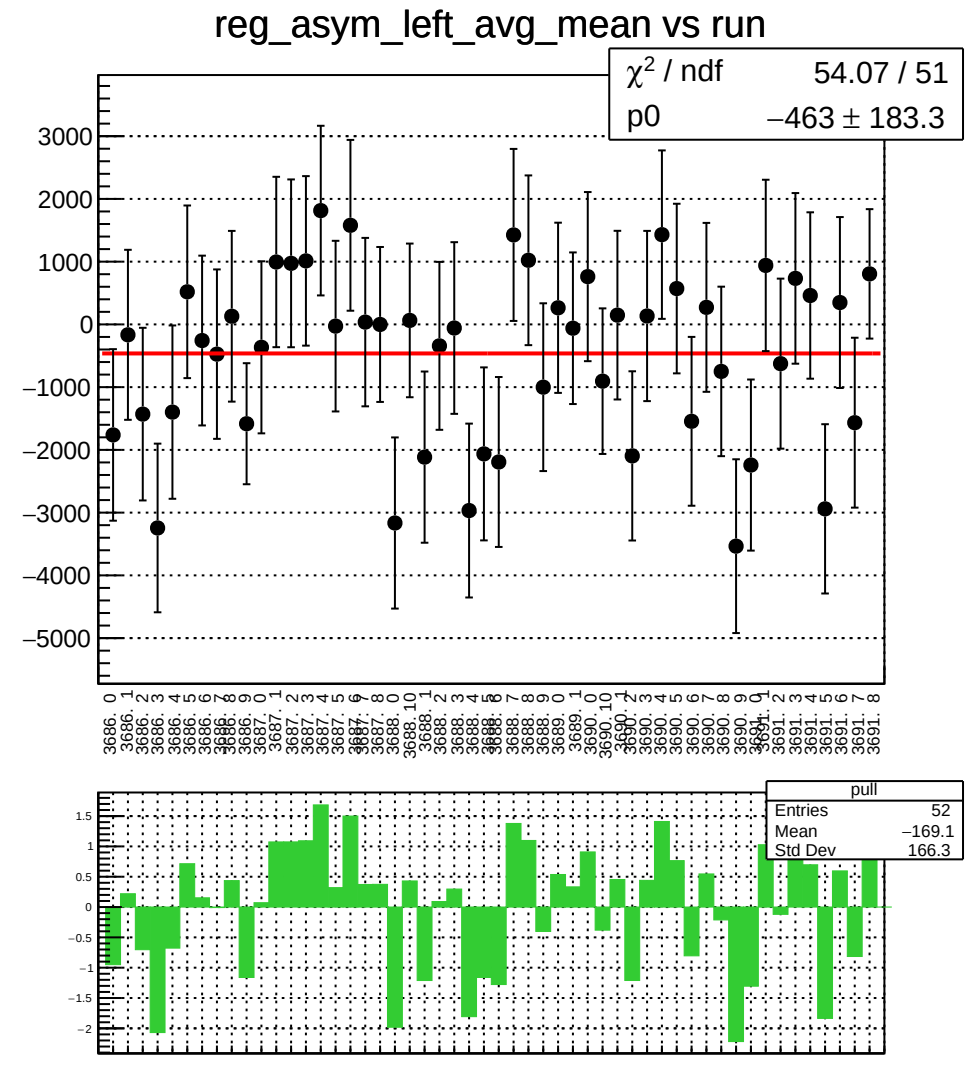
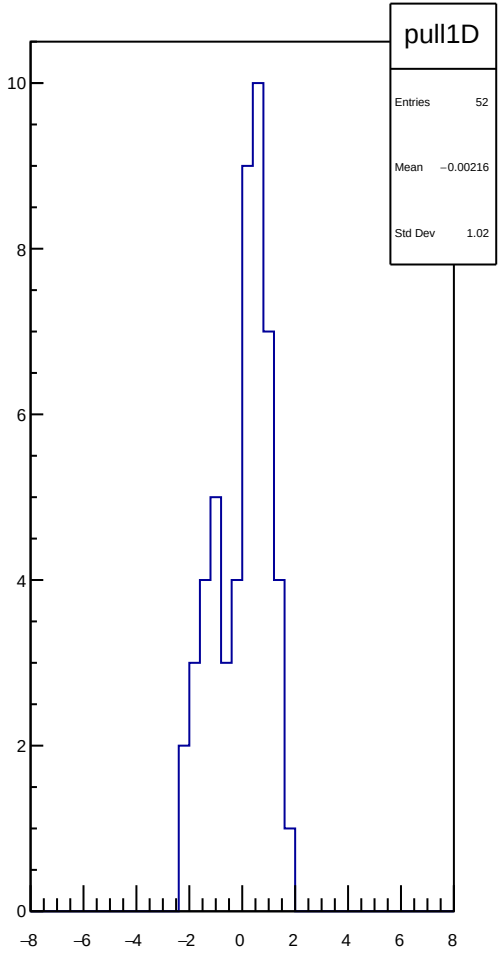
3691. 7
3691. 8

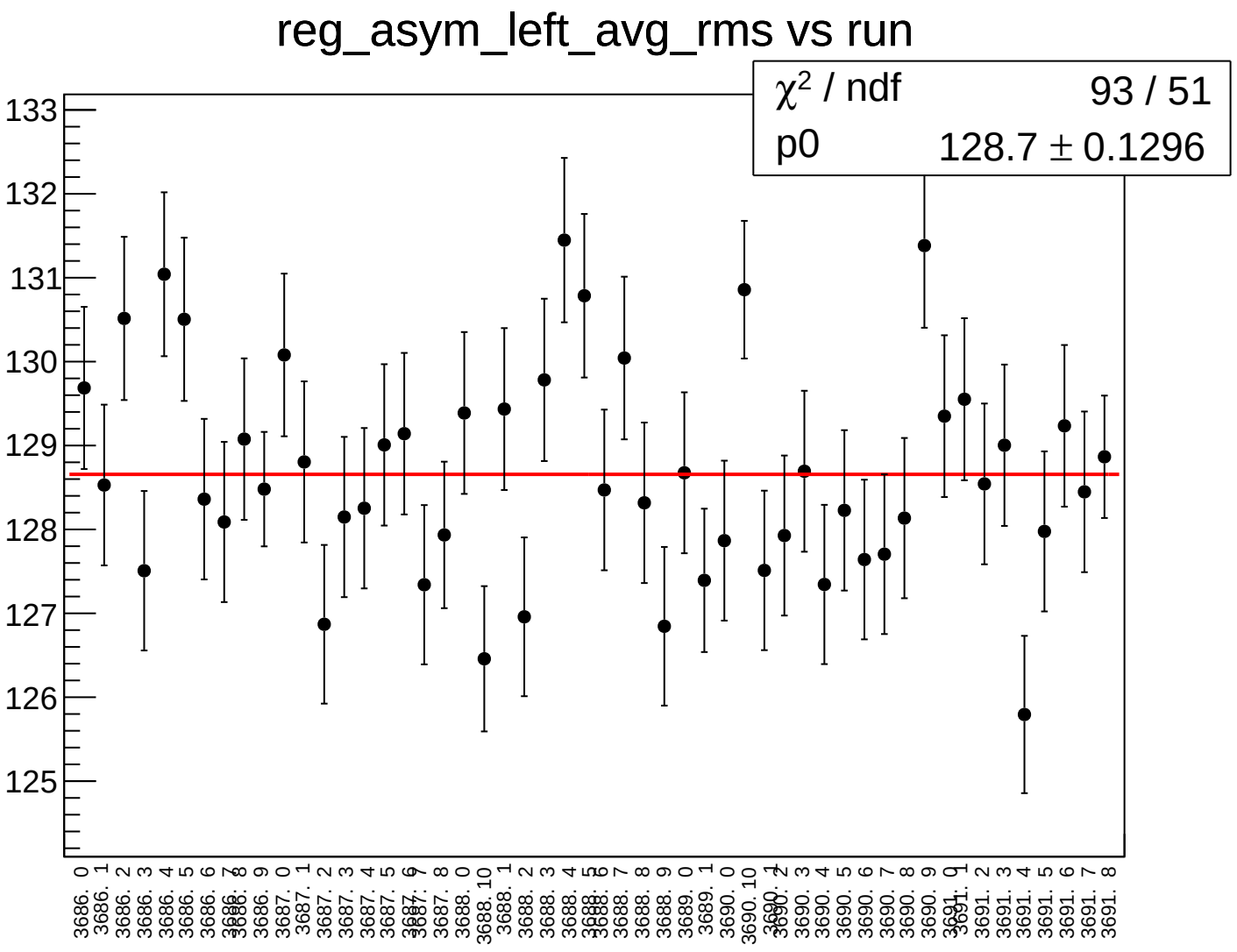

asym_dsr_mean vs run
χ² / ndf 35.37 / 51
p0 −1112 ± 809.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 52
Mean −11.07
Std Dev 10.18
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 52
Mean −0.005143
Std Dev 0.8247
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsr_rms vs run
χ² / ndf 513.5 / 51
p0 568.2 ± 0.5726
610
600
590
580
570
560
550
540
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


reg_asym_left_avg_mean vs run
χ^2 / ndf 54.07 / 51
p0 −463 ± 183.3
pull
Entries 52
Mean −169.1
Std Dev 166.3


pull1D
Entries 52
Mean −0.00216
Std Dev 1.02


reg_asym_left_avg_rms vs run
χ² / ndf 93 / 51
p0 128.7 ± 0.1296
133
132
131
130
129
128
127
126
125
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
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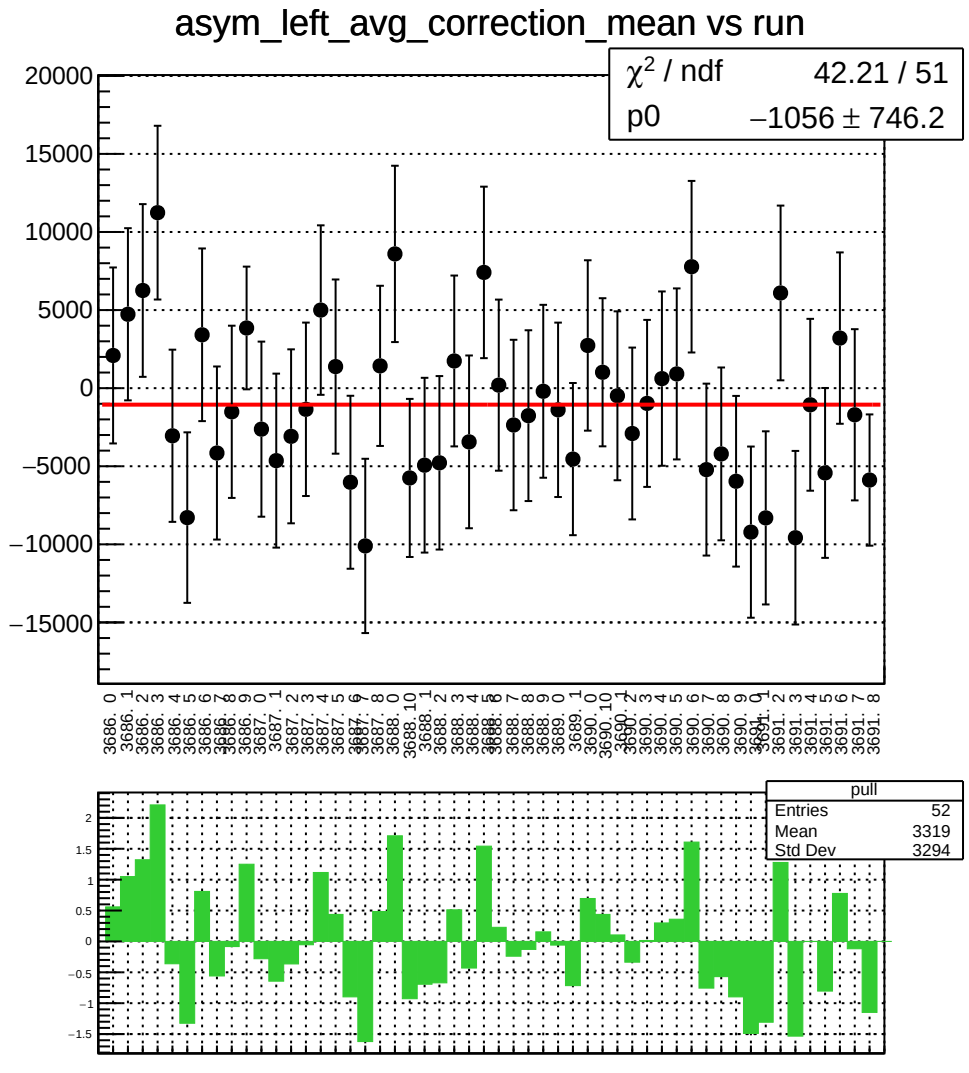
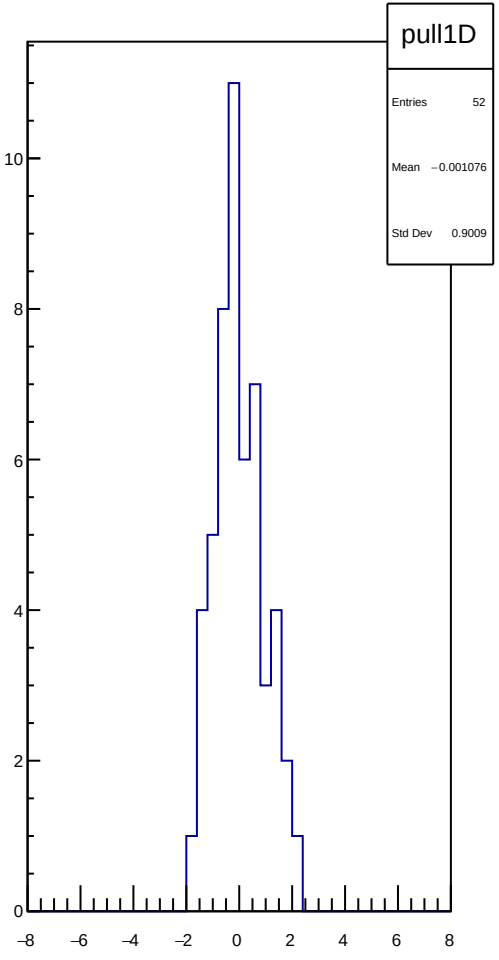
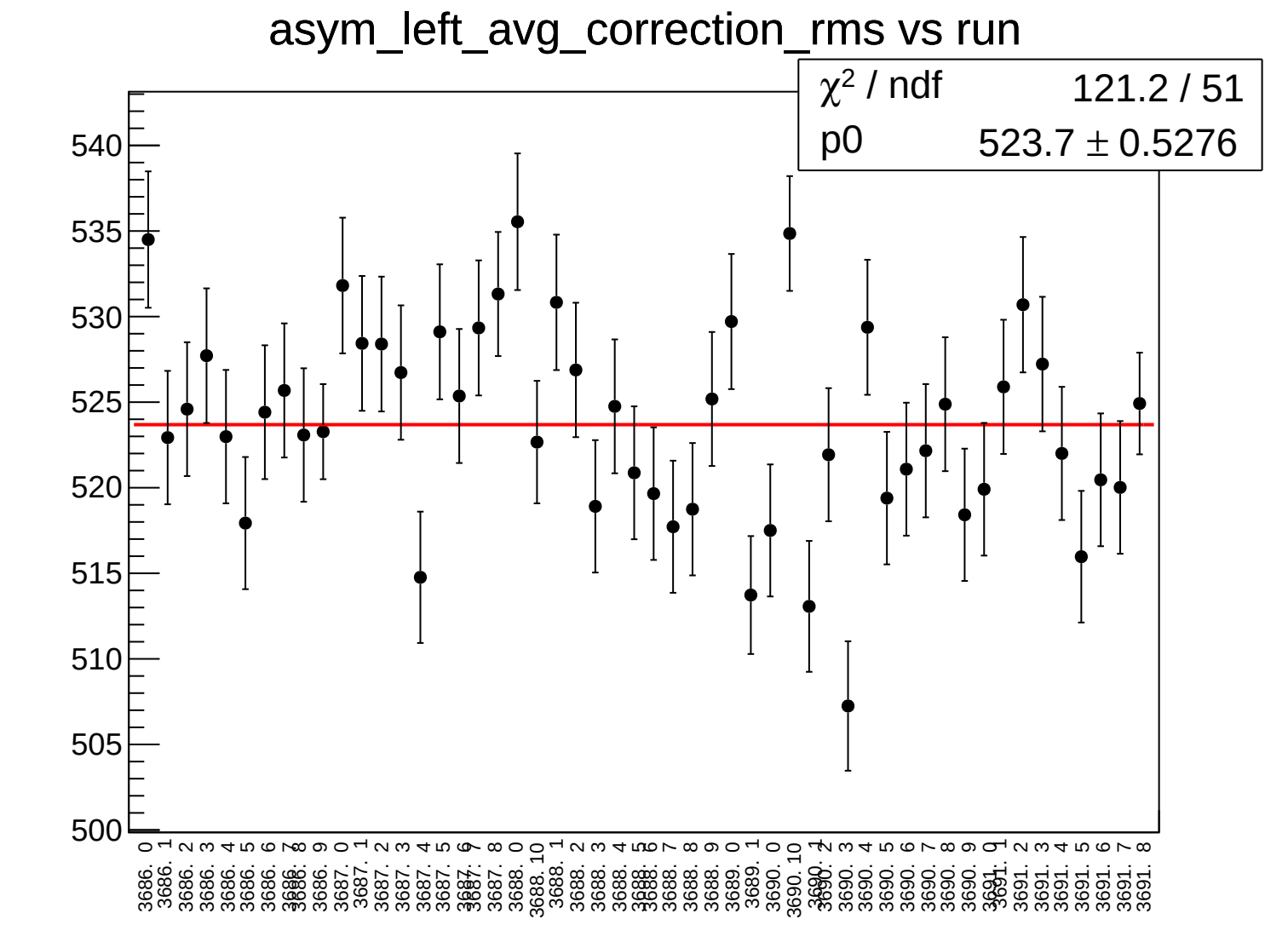
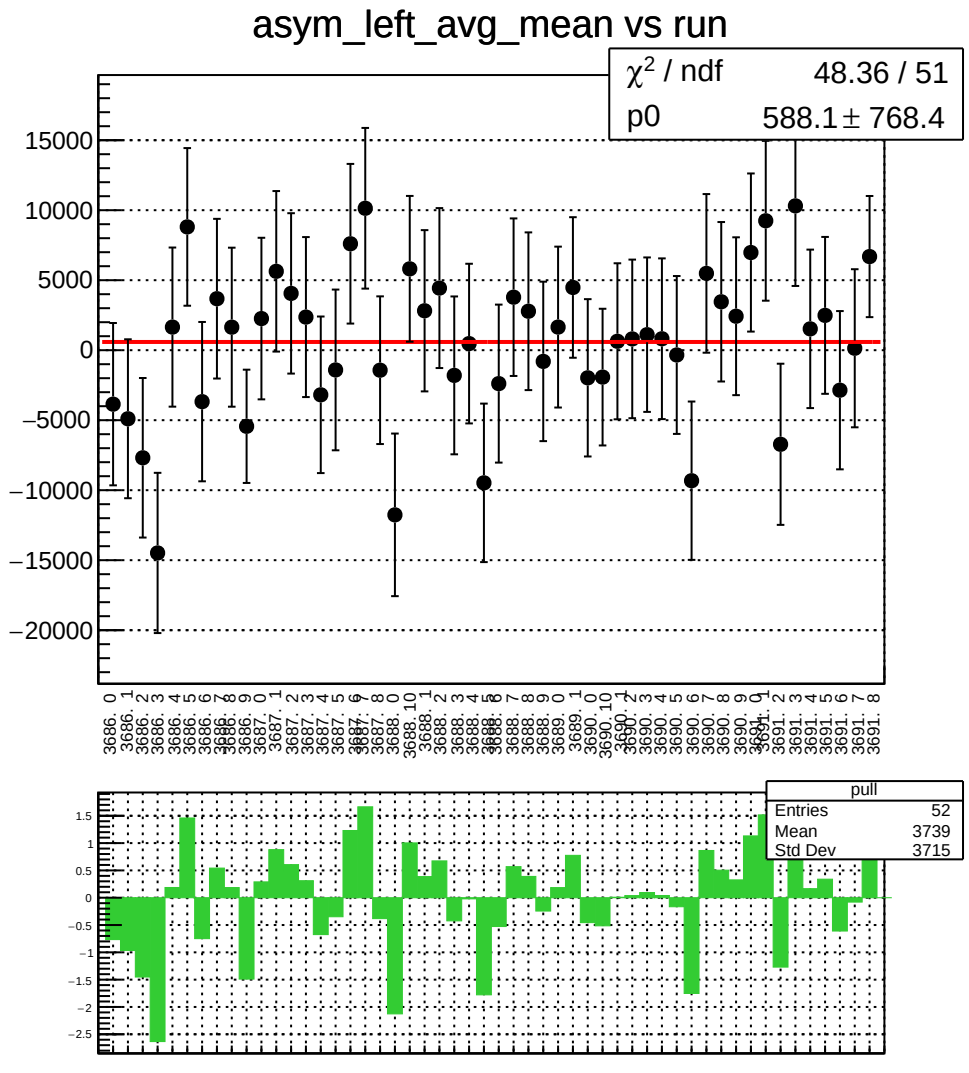
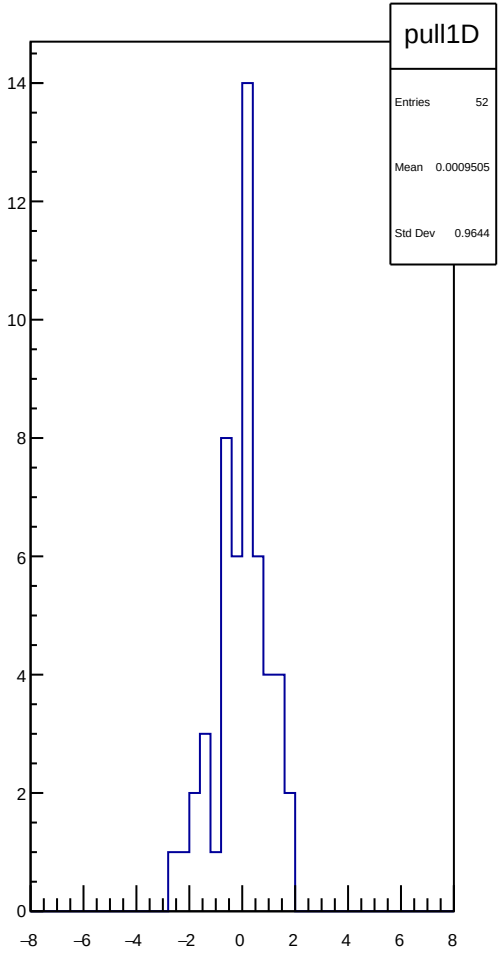
3691. 7
3691. 8

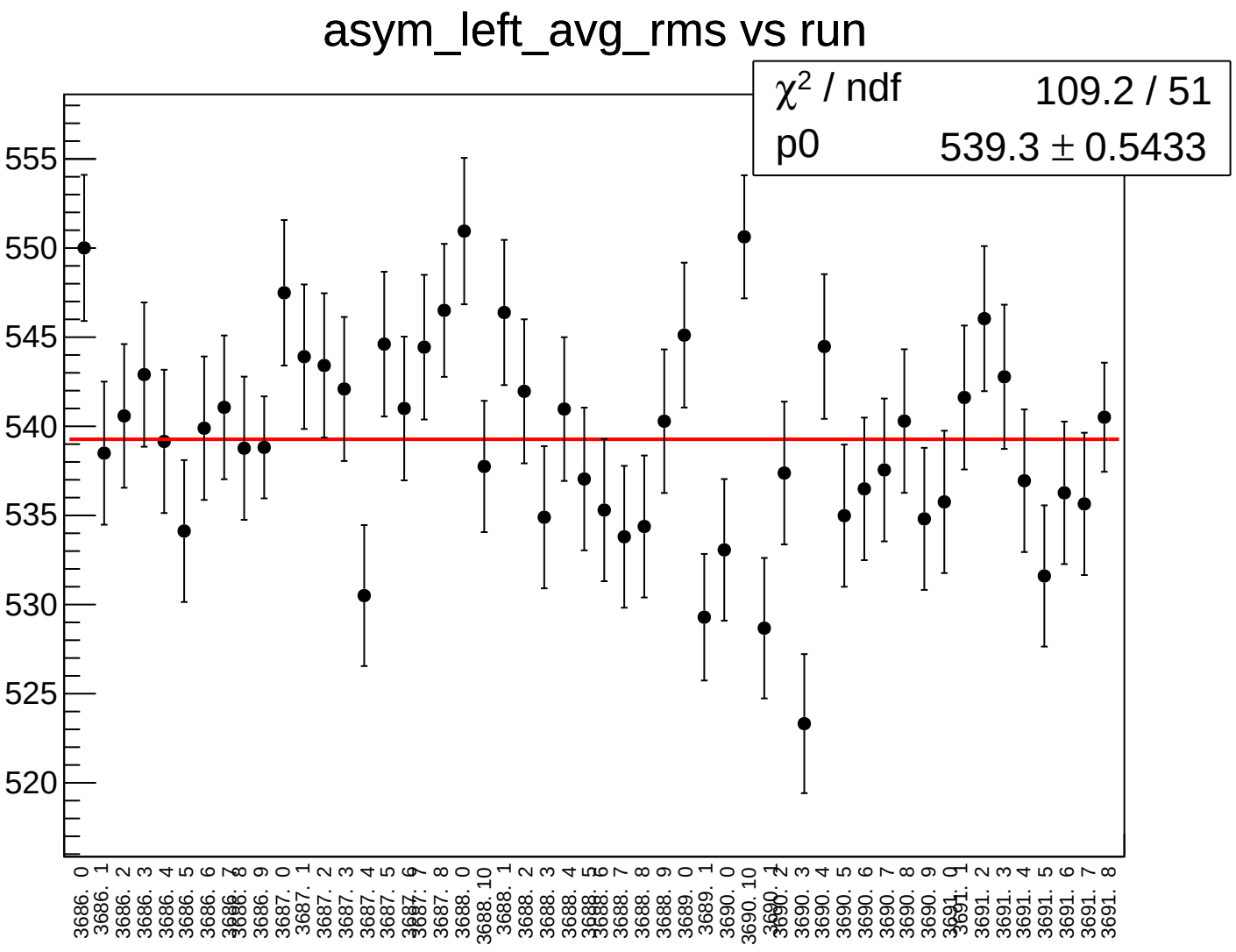

asym_left_avg_correction_mean vs run
χ² / ndf 42.21 / 51
p0 −1056 ± 746.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 52
Mean 3319
Std Dev 3294
2
1.5
1
0.5
0
−0.5
−1
−1.5

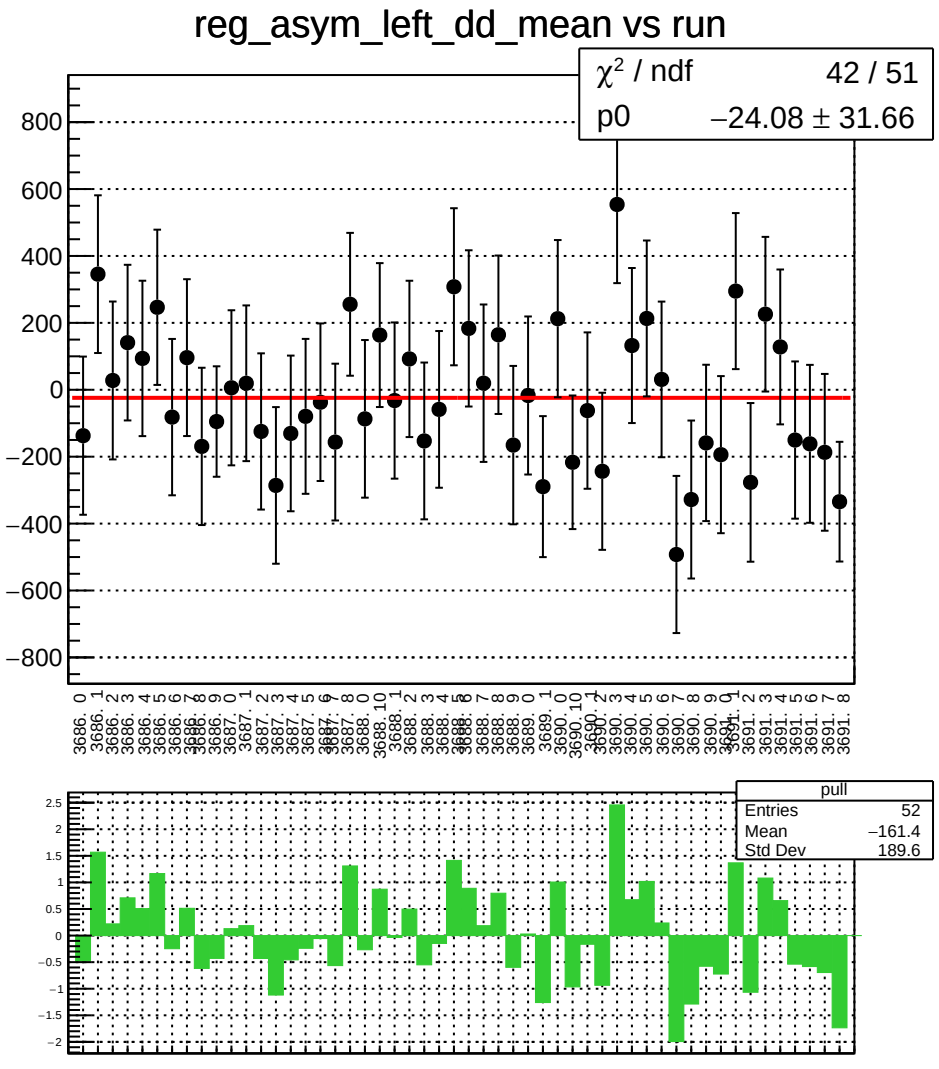

pull1D
Entries 52
Mean −0.001076
Std Dev 0.9009
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

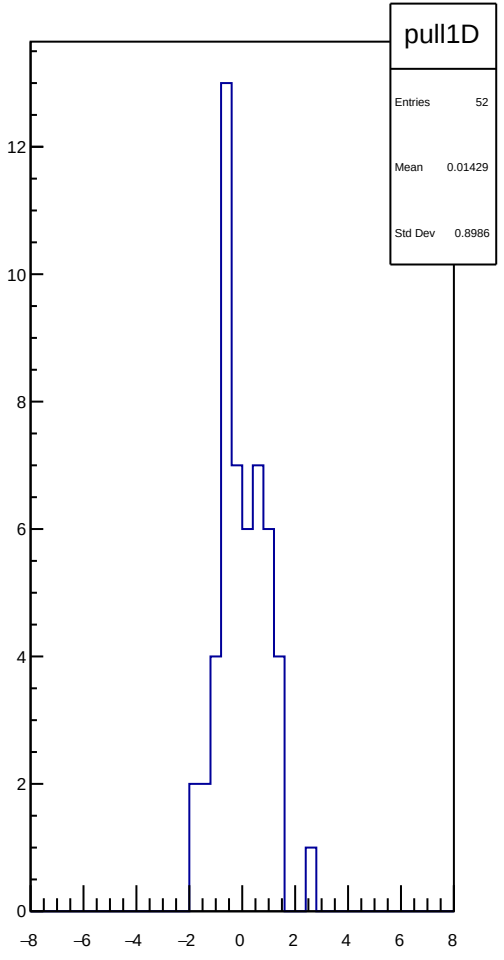

asym_left_avg_correction_rms vs run
χ² / ndf 121.2 / 51
p0 523.7 ± 0.5276
540
535
530
525
520
515
510
505
500
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

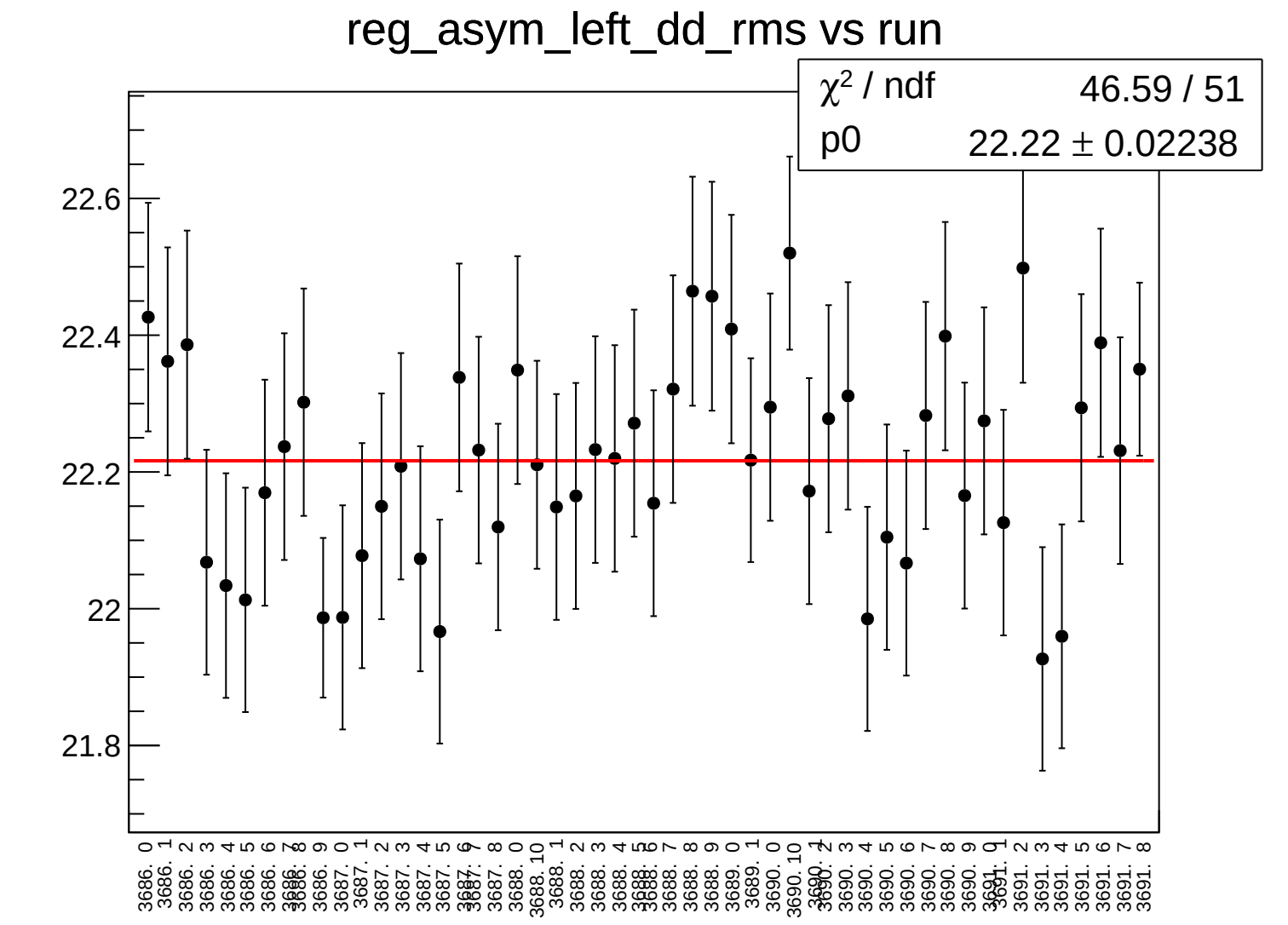

asym_left_avg_mean vs run
χ² / ndf 48.36 / 51
p0 588.1 ± 768.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 52
Mean 3739
Std Dev 3715
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

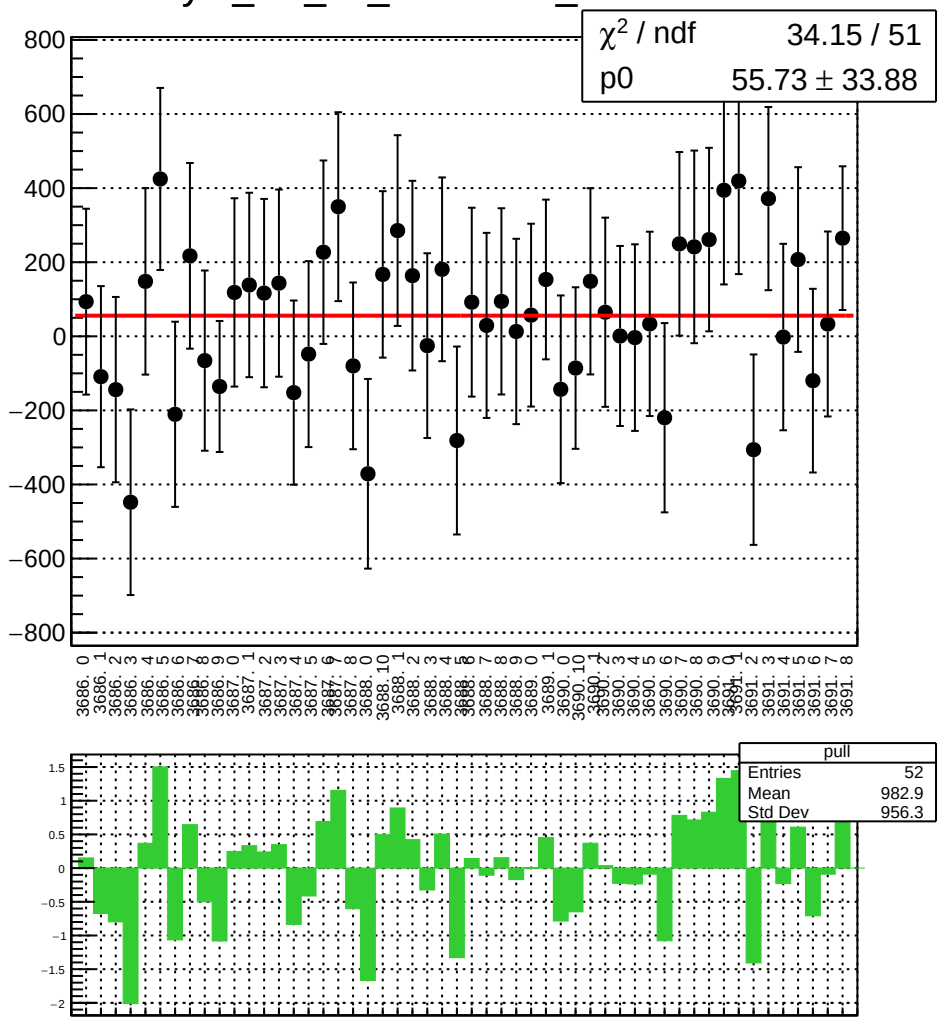

pull1D
Entries 52
Mean 0.0009505
Std Dev 0.9644
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

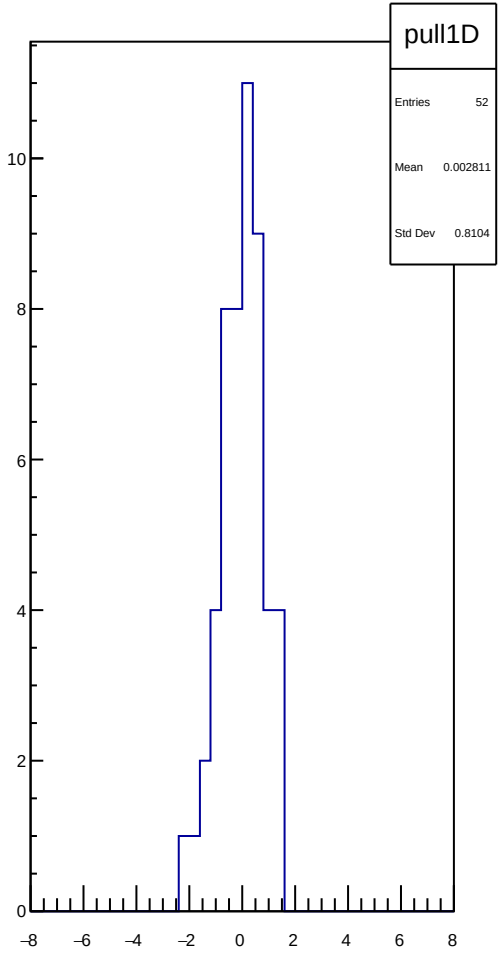

asym_left_avg_rms vs run
χ² / ndf 109.2 / 51
p0 539.3 ± 0.5433
555
550
545
540
535
530
525
520
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

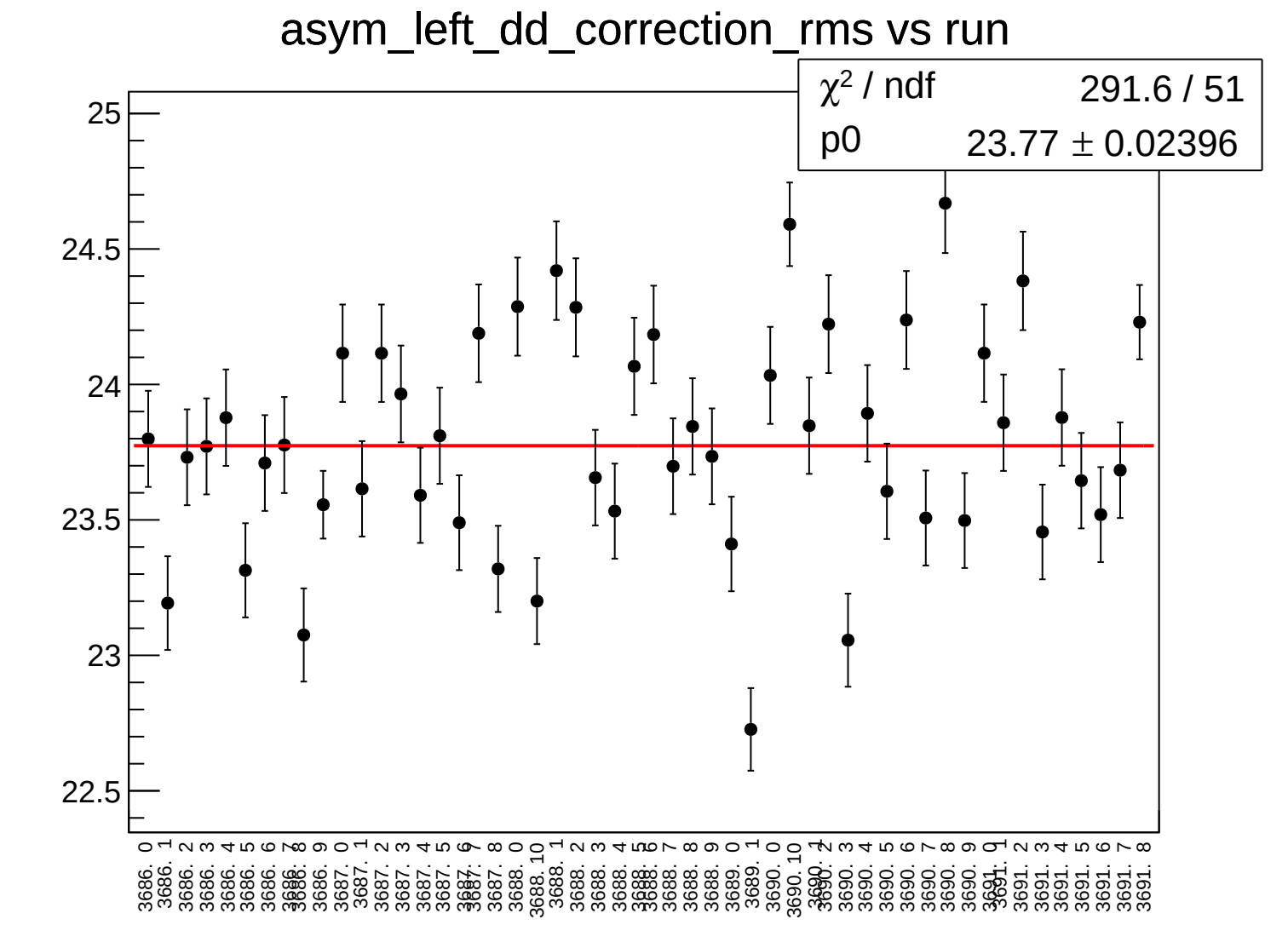

reg_asym_left_dd_mean vs run
χ² / ndf 42 / 51
p0 −24.08 ± 31.66
pull
Entries 52
Mean −161.4
Std Dev 189.6


pull1D
Entries 52
Mean 0.01429
Std Dev 0.8986


reg_asym_left_dd_rms vs run
χ² / ndf 46.59 / 51
p0 22.22 ± 0.02238
22.6
22.4
22.2
22
21.8
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


asym_left_dd_correction_mean vs run
χ² / ndf 34.15 / 51
p0 55.73 ± 33.88
pull
Entries 52
Mean 982.9
Std Dev 956.3


pull1D
Entries 52
Mean 0.002811
Std Dev 0.8104


asym_left_dd_correction_rms vs run
χ² / ndf 291.6 / 51
p0 23.77 ± 0.02396
25
24.5
24
23.5
23
22.5
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
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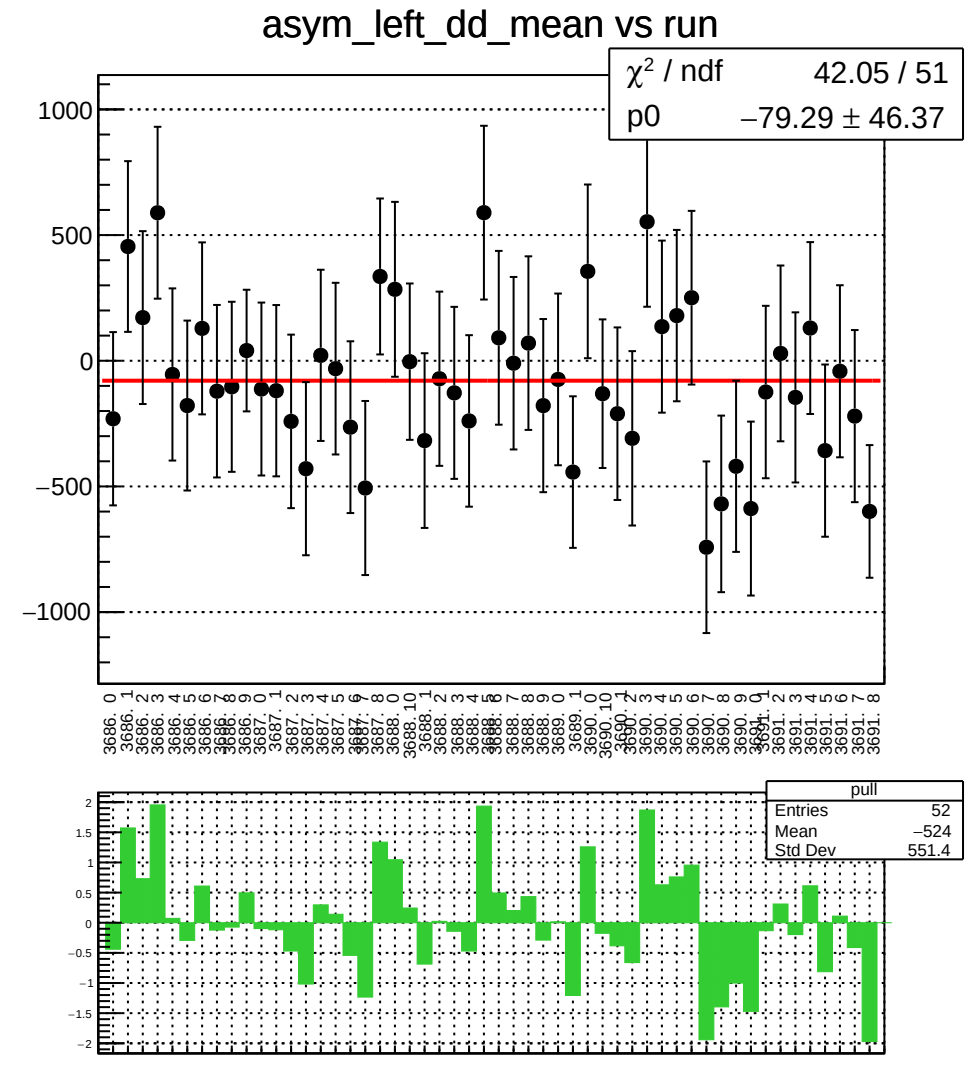
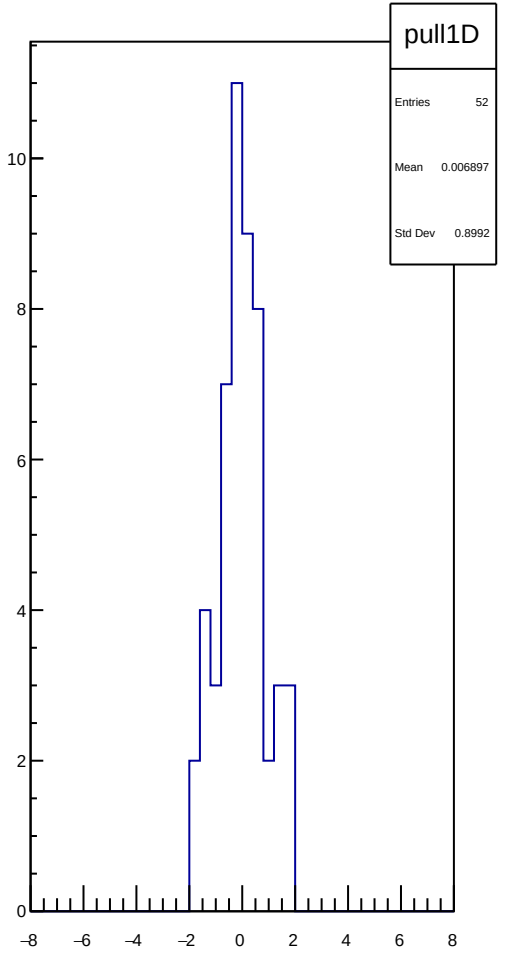
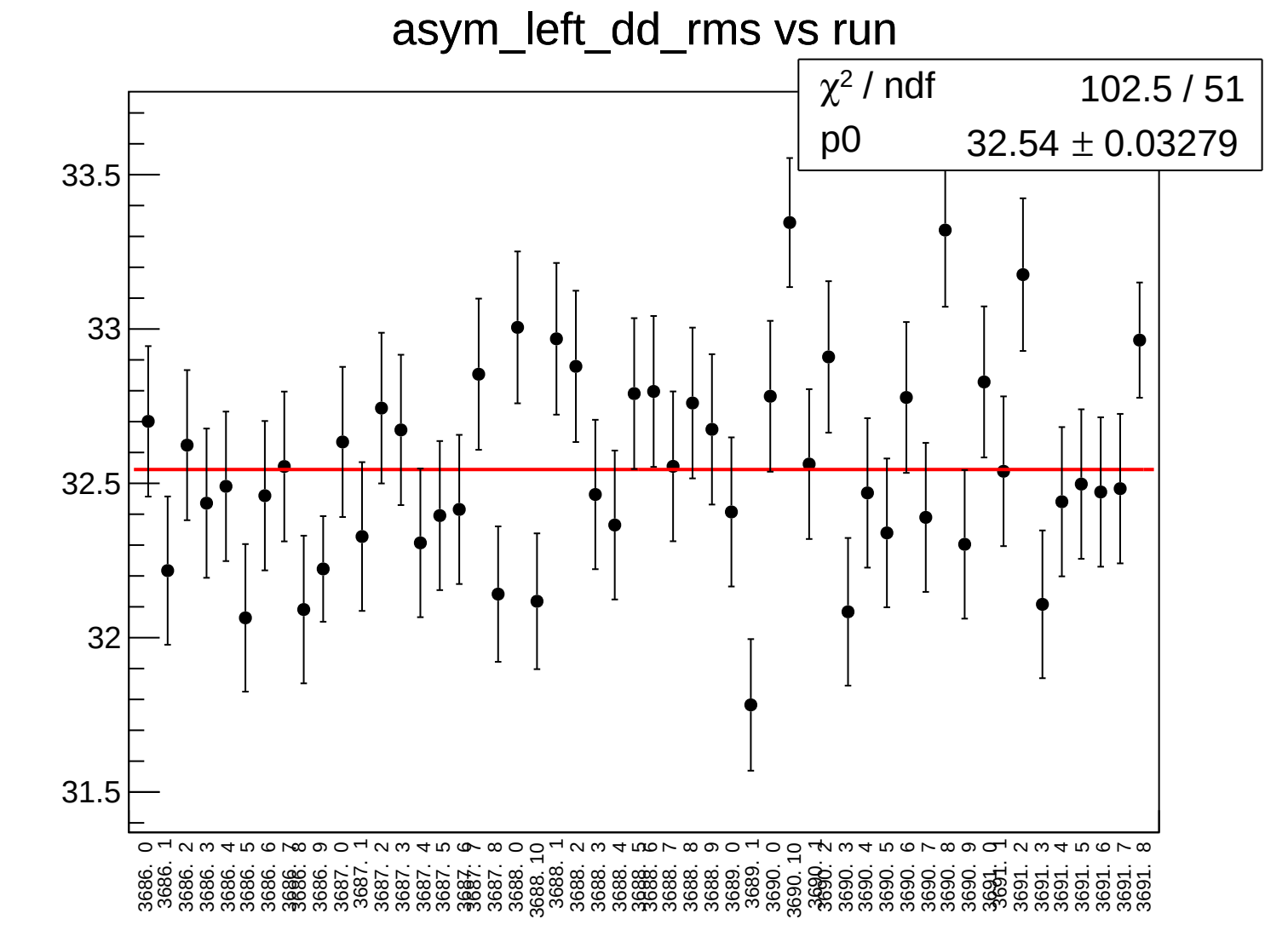
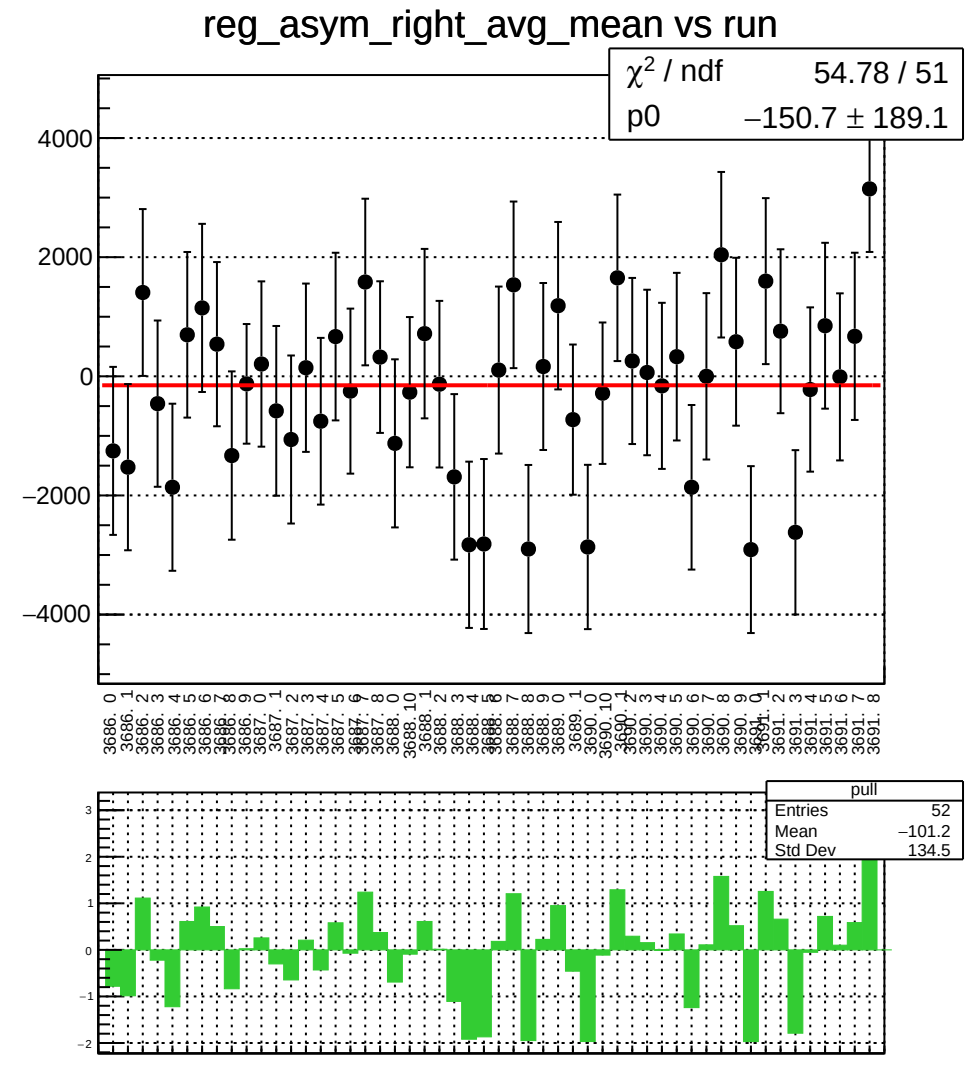
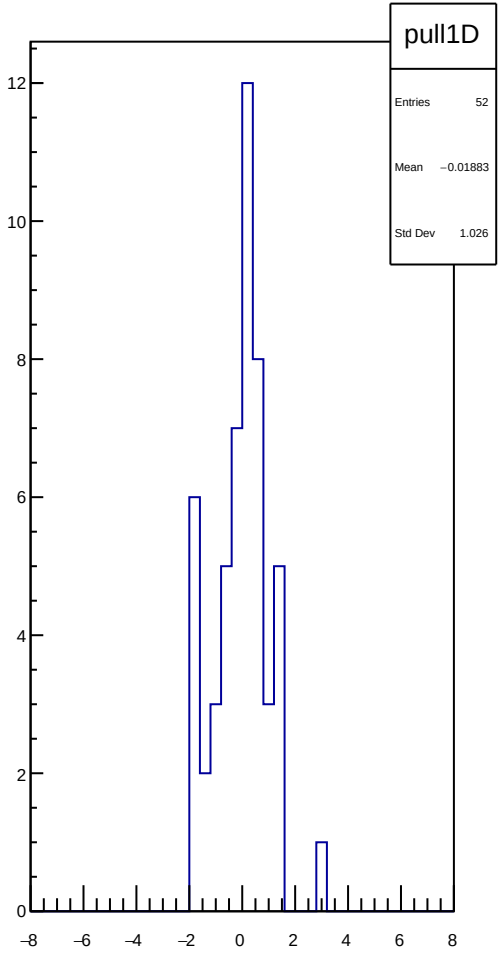
3691. 7
3691. 8

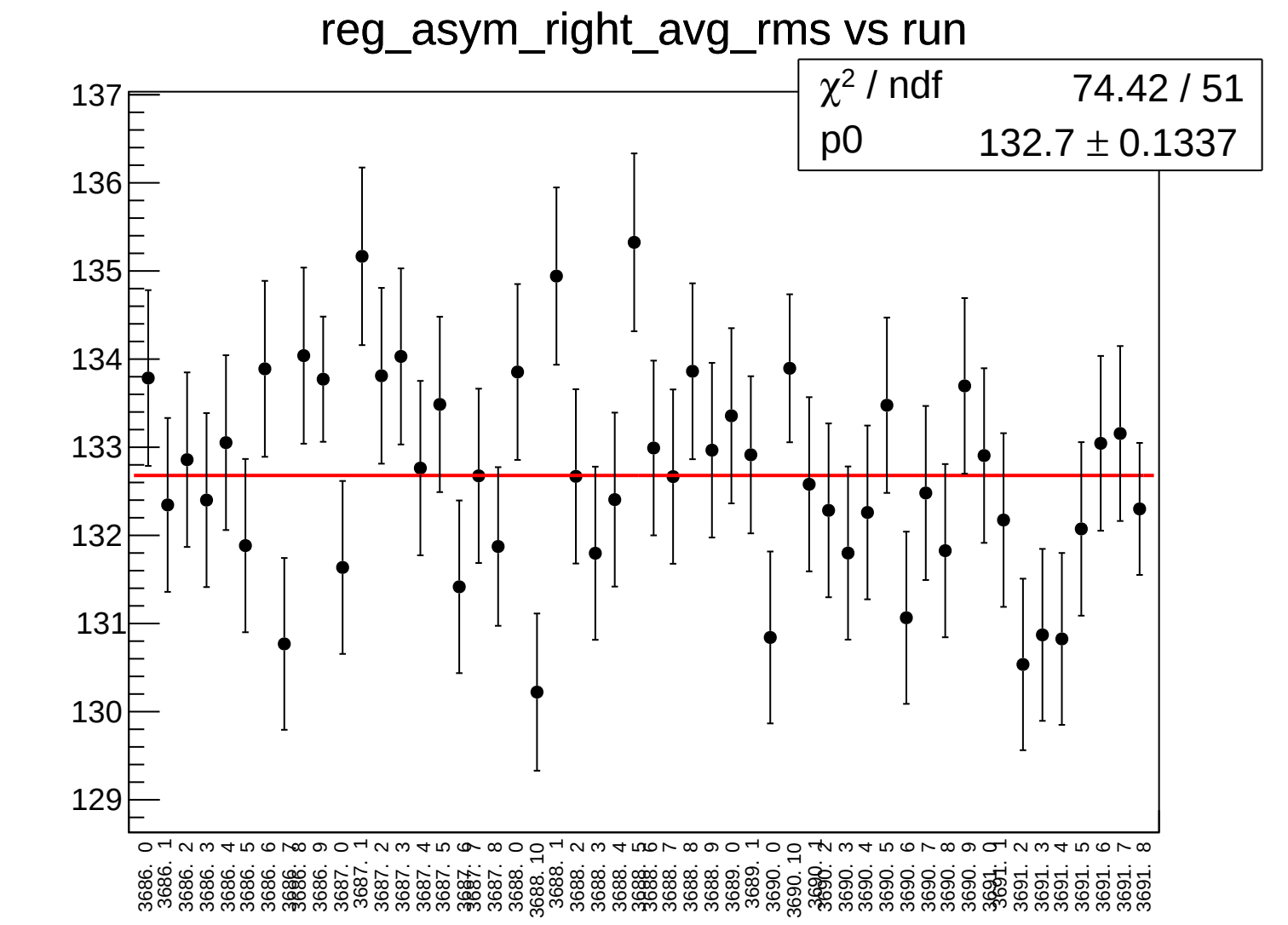

asym_left_dd_mean vs run
χ^2 / ndf 42.05 / 51
p0 −79.29 ± 46.37
1000
500
0
−500
−1000
pull
Entries 52
Mean −524
Std Dev 551.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

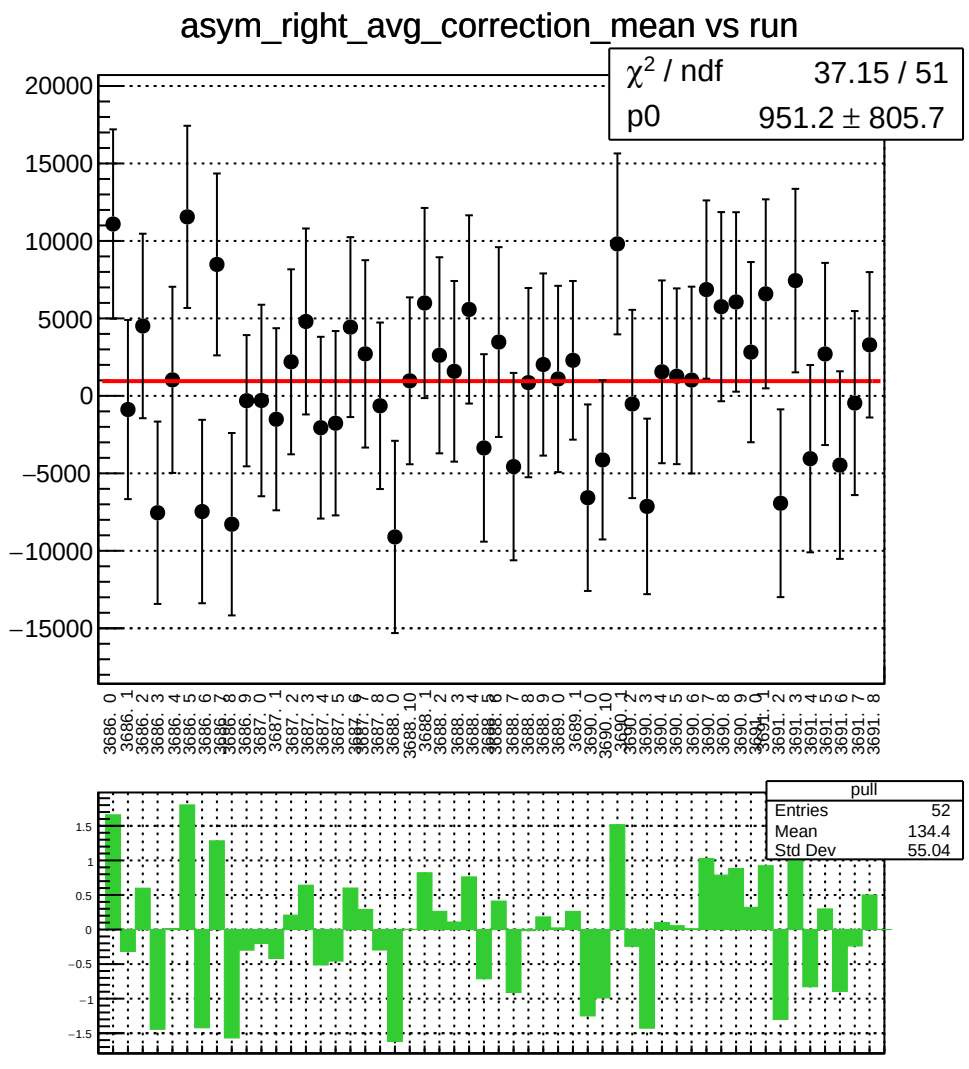

pull1D
Entries 52
Mean 0.006897
Std Dev 0.8992
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

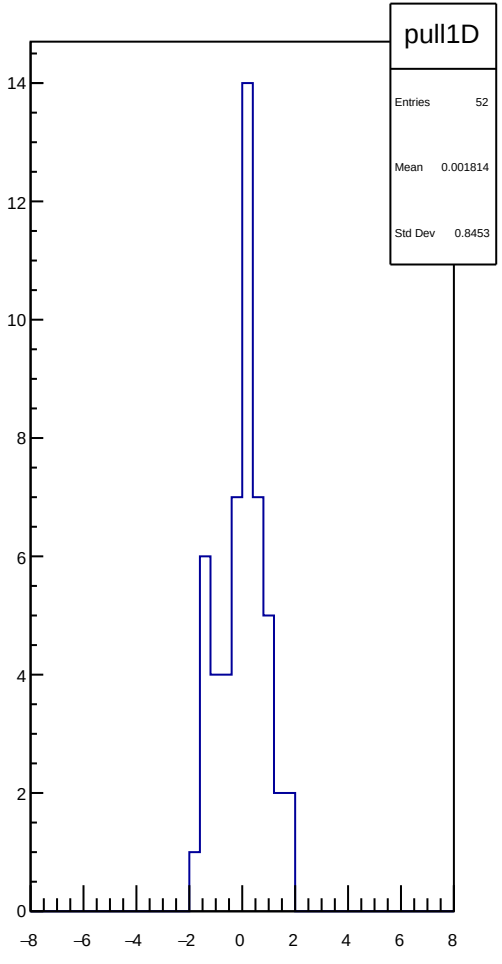

asym_left_dd_rms vs run
χ² / ndf 102.5 / 51
p0 32.54 ± 0.03279
33.5
33
32.5
32
31.5

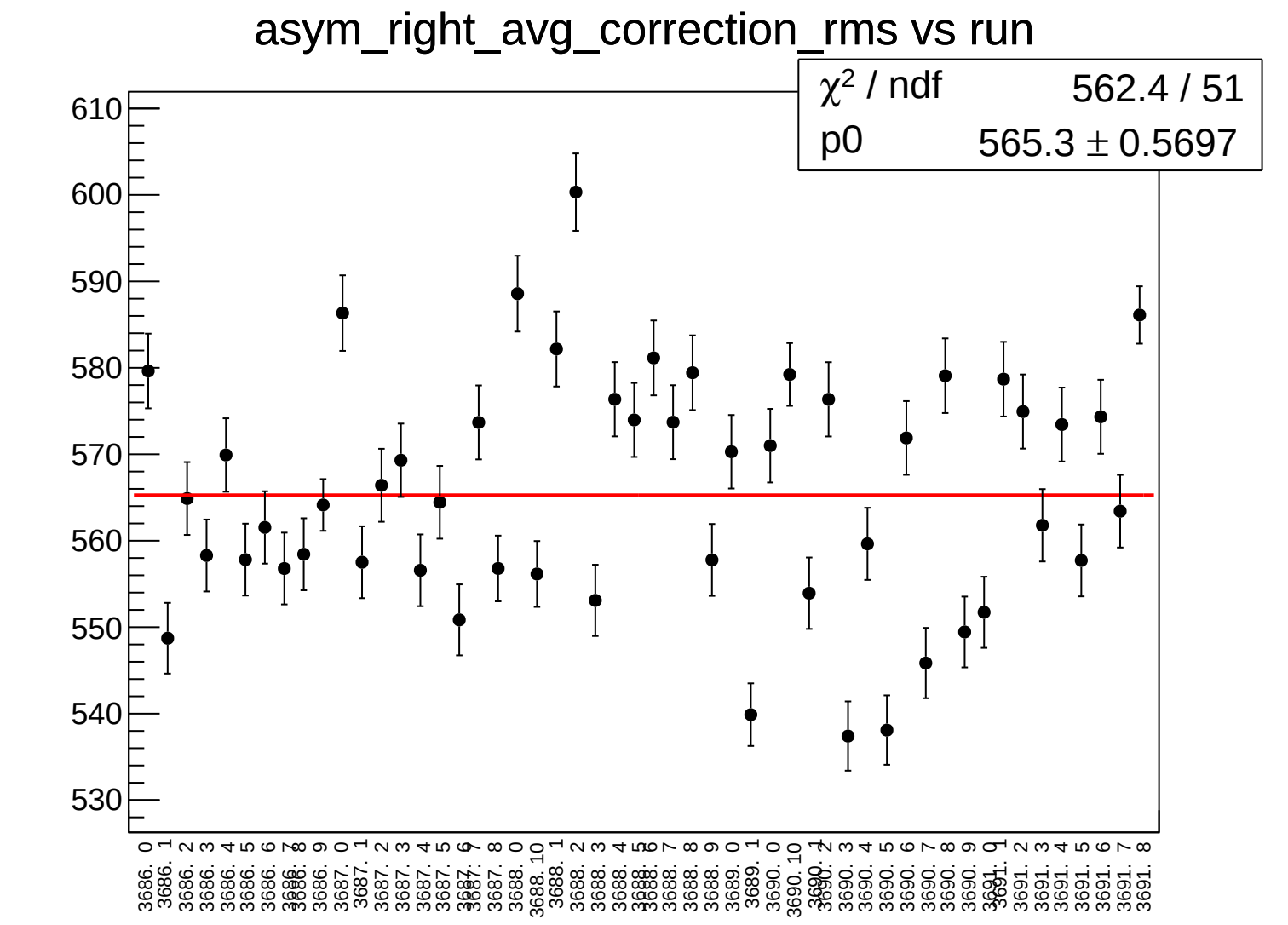

reg_asym_right_avg_mean vs run
χ² / ndf 54.78 / 51
p0 −150.7 ± 189.1
4000
2000
0
−2000
−4000
pull
Entries 52
Mean −101.2
Std Dev 134.5
3
2
1
0
−1
−2

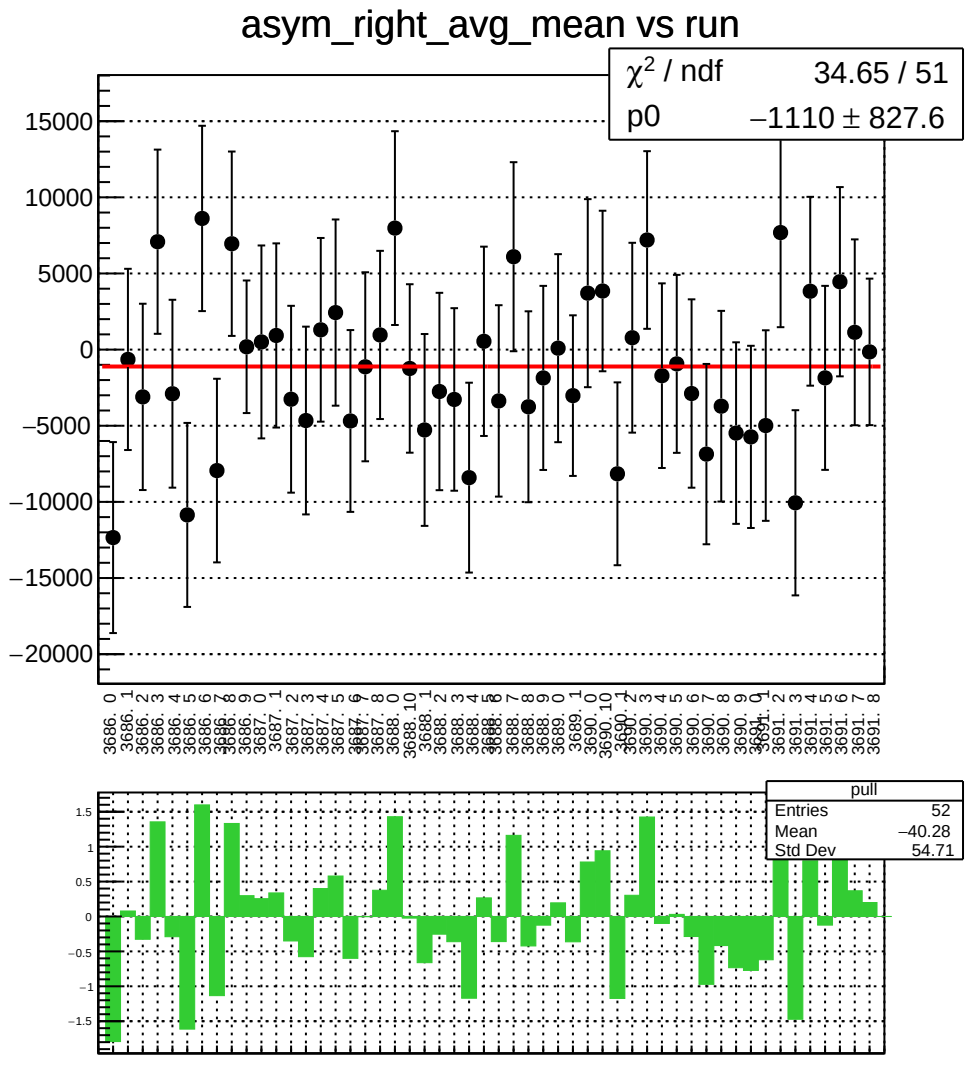

pull1D
Entries 52
Mean −0.01883
Std Dev 1.026
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

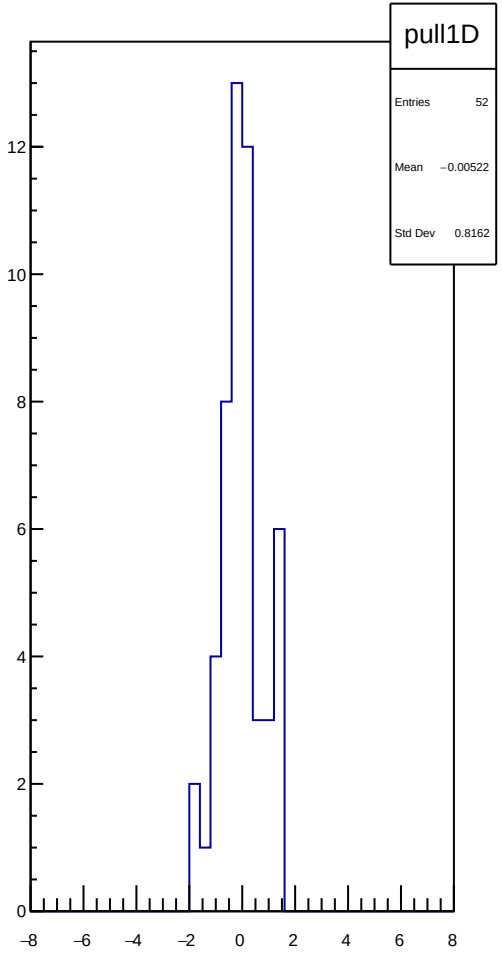

reg_asym_right_avg_rms vs run
χ² / ndf 74.42 / 51
p0 132.7 ± 0.1337
137
136
135
134
133
132
131
130
129
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

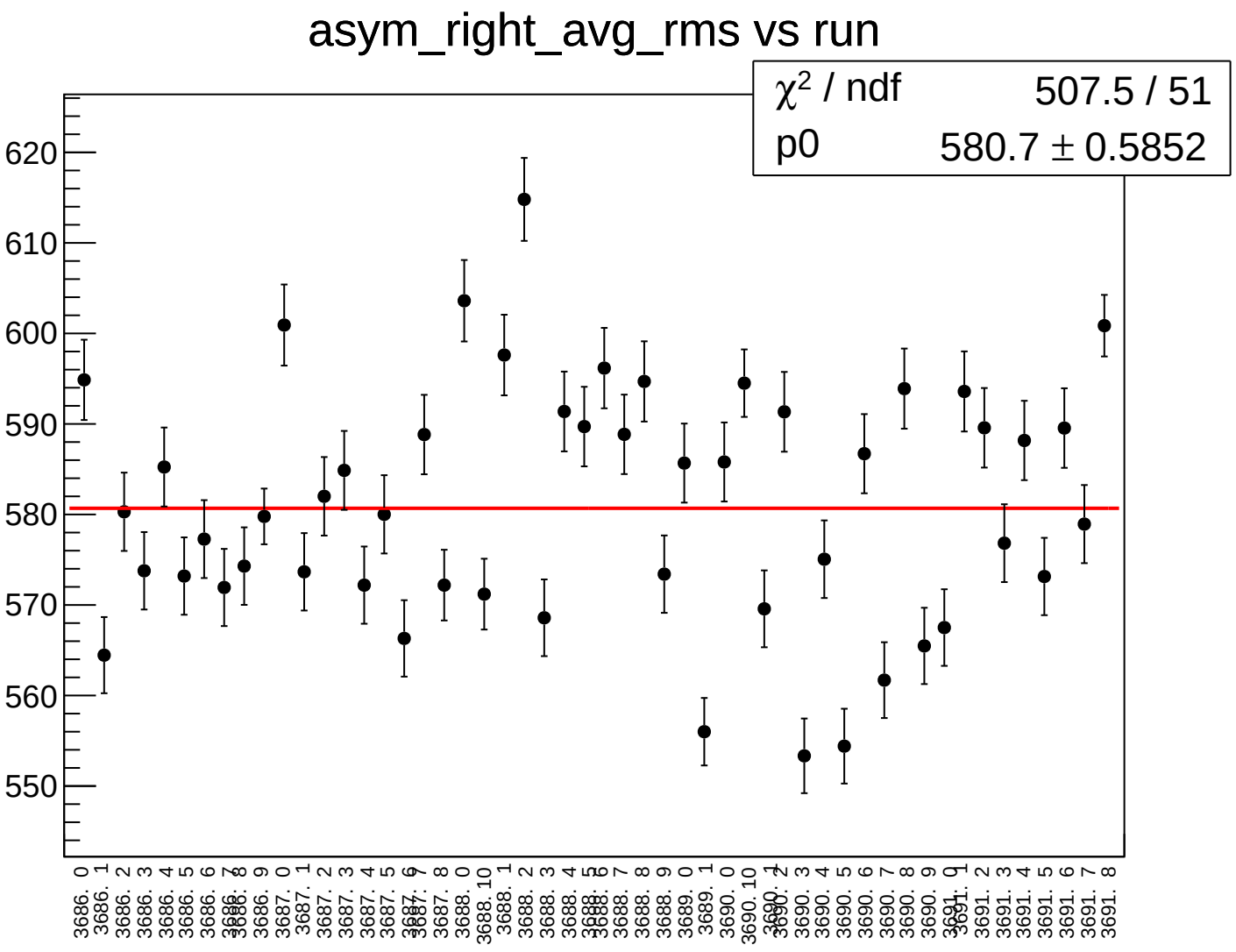

asym_right_avg_correction_mean vs run
χ^2 / ndf 37.15 / 51
p0 951.2 ± 805.7
pull
Entries 52
Mean 134.4
Std Dev 55.04


pull1D
Entries 52
Mean 0.001814
Std Dev 0.8453


asym_right_avg_correction_rms vs run
χ² / ndf 562.4 / 51
p0 565.3 ± 0.5697
610
600
590
580
570
560
550
540
530


asym_right_avg_mean vs run
χ² / ndf 34.65 / 51
p0 −1110 ± 827.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 52
Mean −40.28
Std Dev 54.71
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 52
Mean −0.00522
Std Dev 0.8162
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_right_avg_rms vs run
χ² / ndf 507.5 / 51
p0 580.7 ± 0.5852
620
610
600
590
580
570
560
550
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
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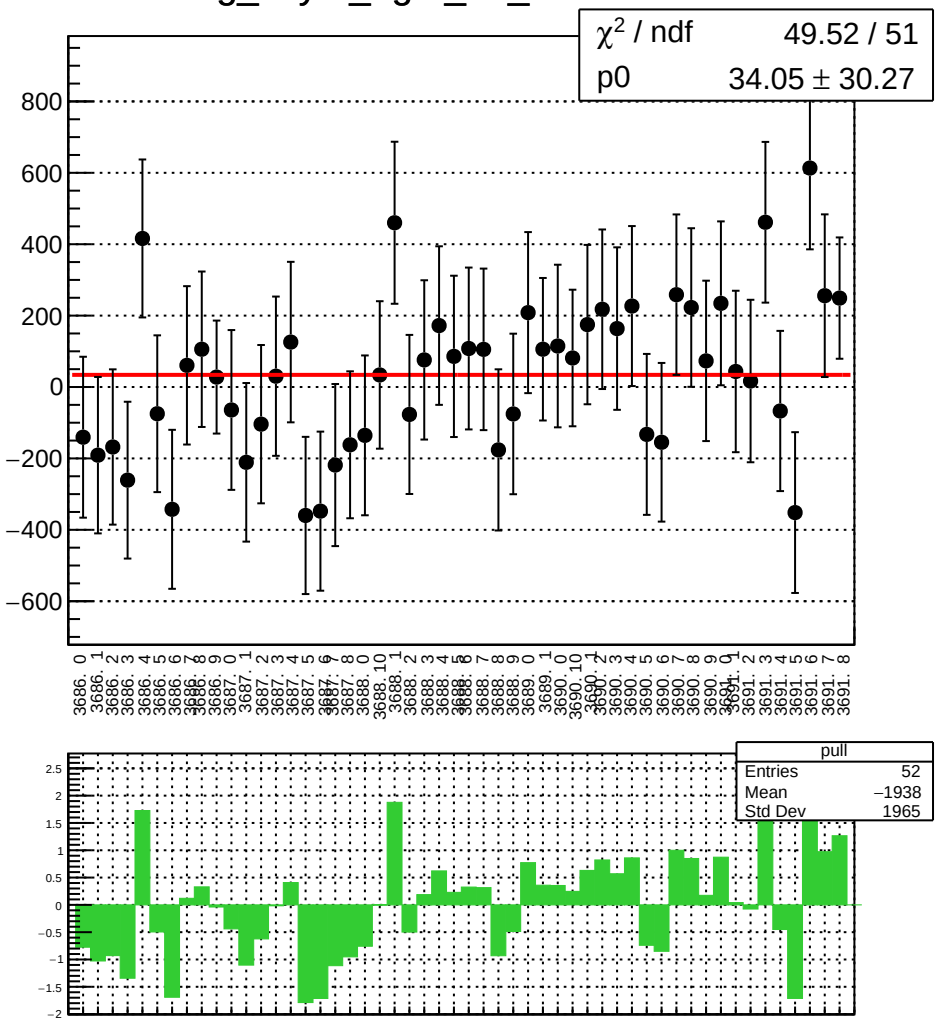
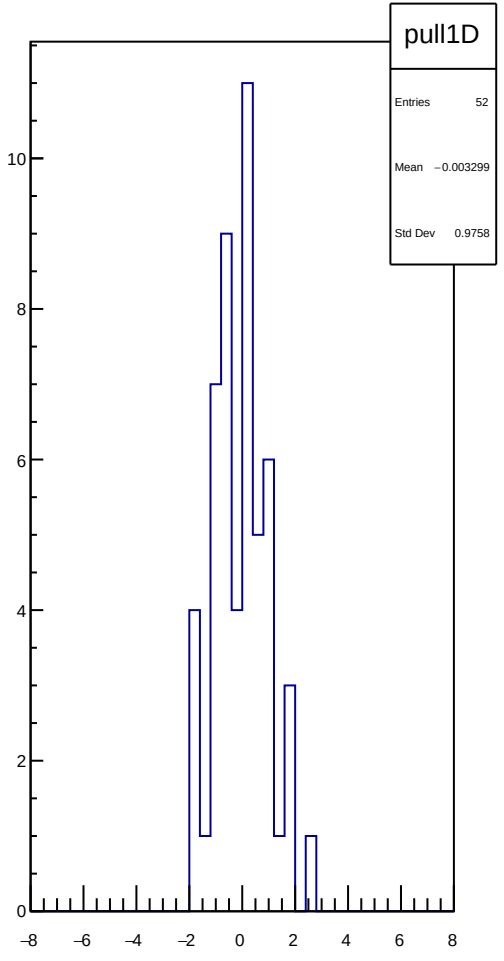
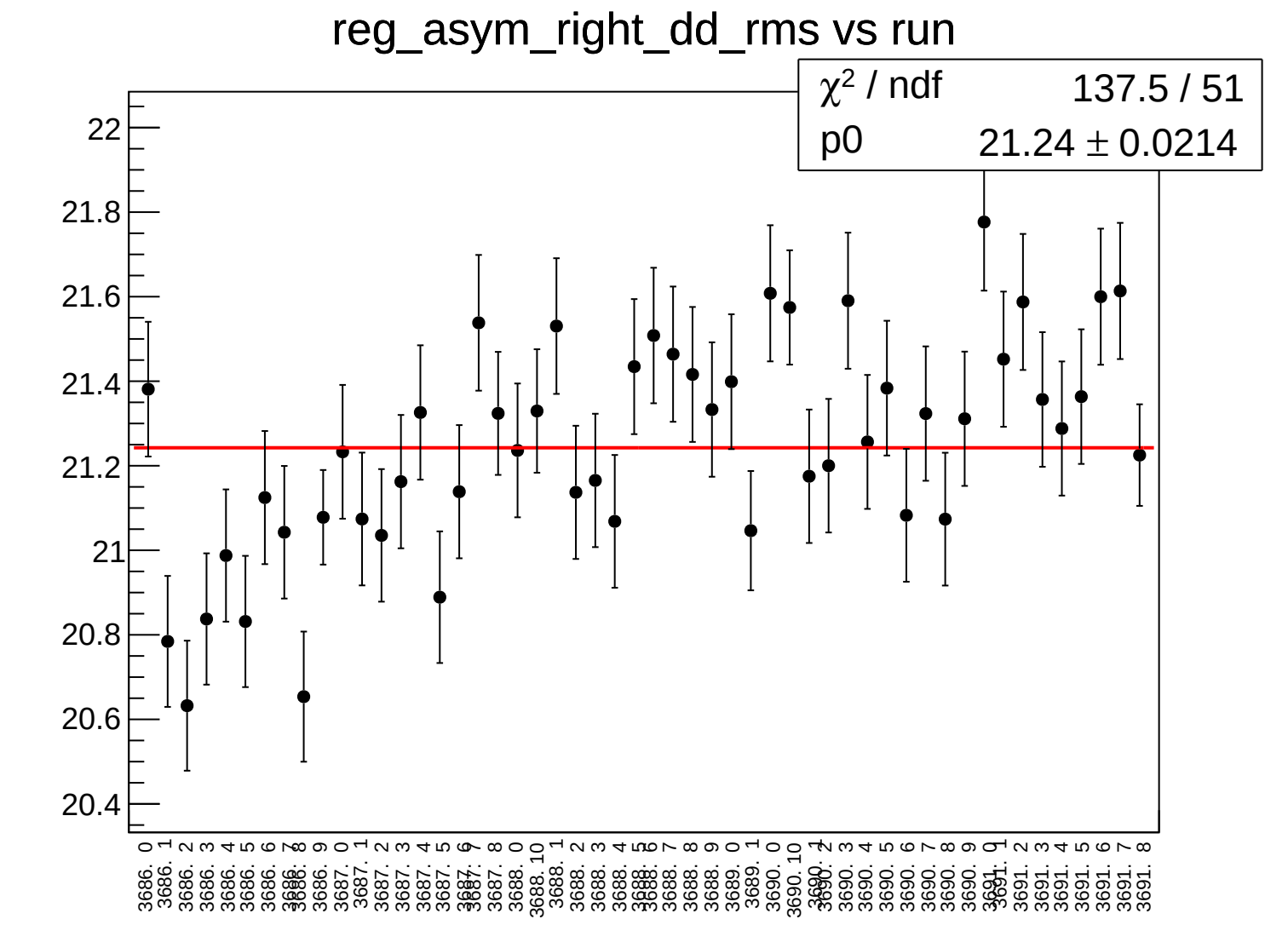
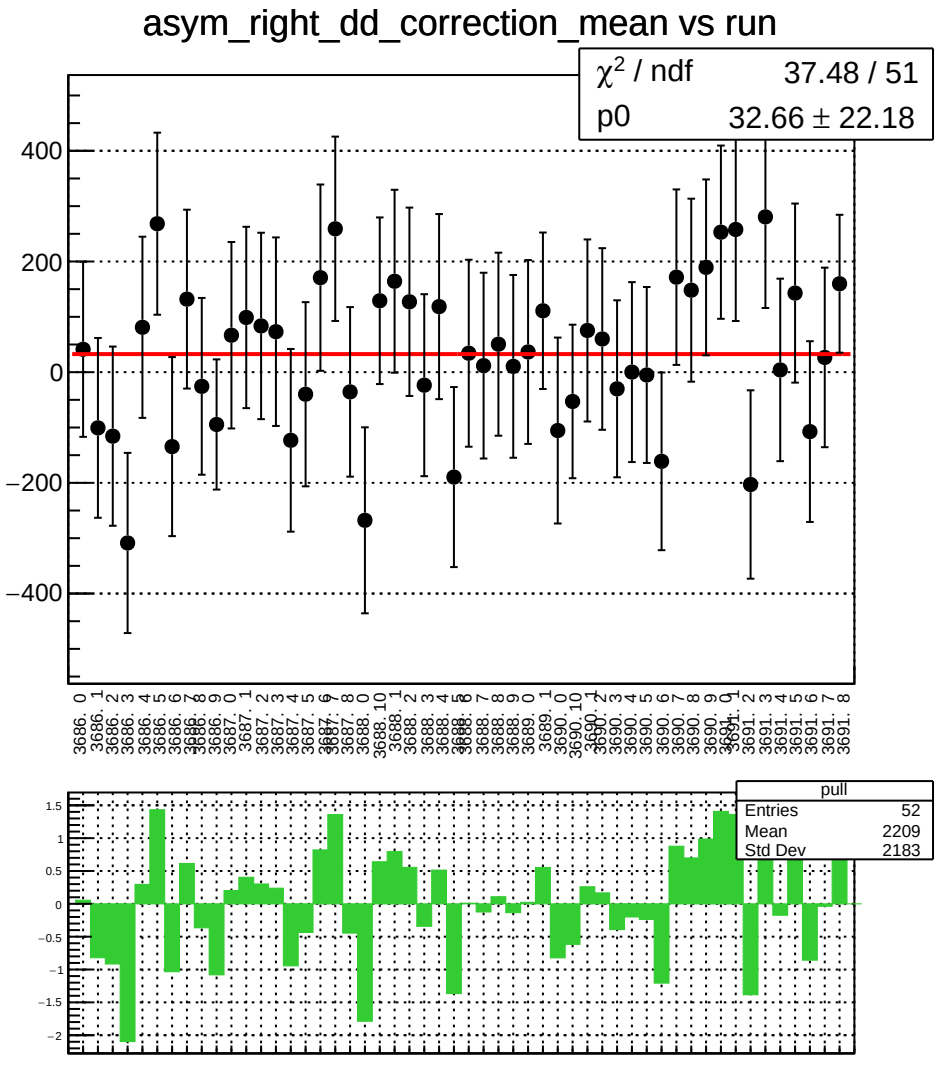
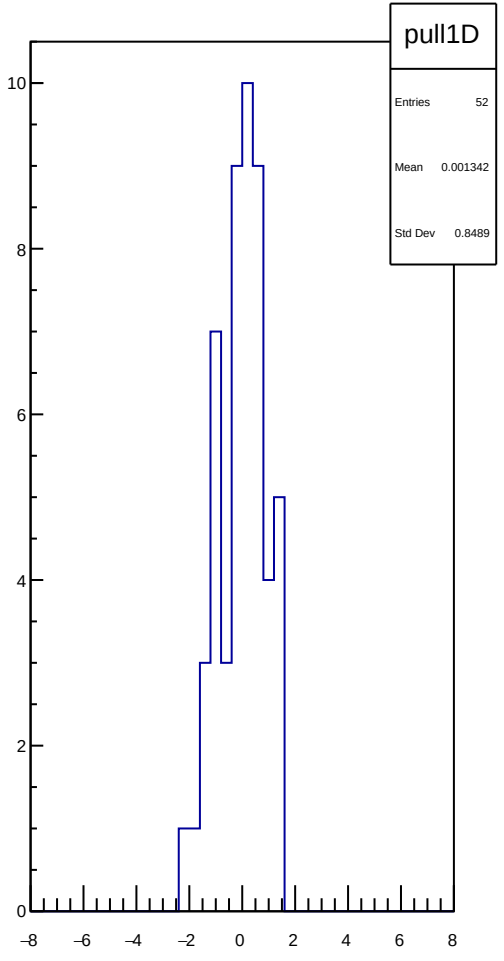
3691. 7
3691. 8

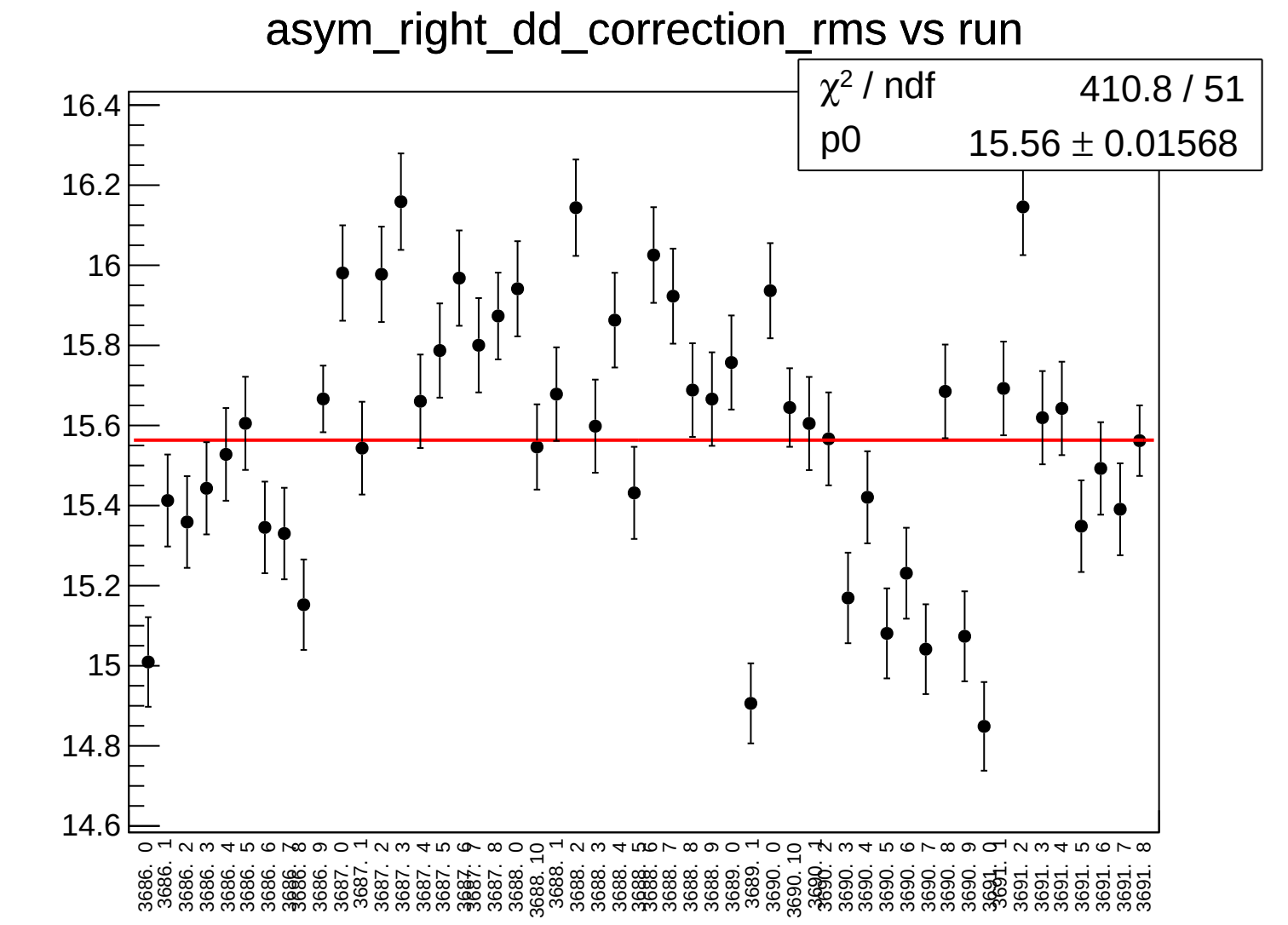

reg_asym_right_dd_mean vs run
χ^2 / ndf 49.52 / 51
p0 34.05 ± 30.27
pull
Entries 52
Mean −1938
Std Dev 1965

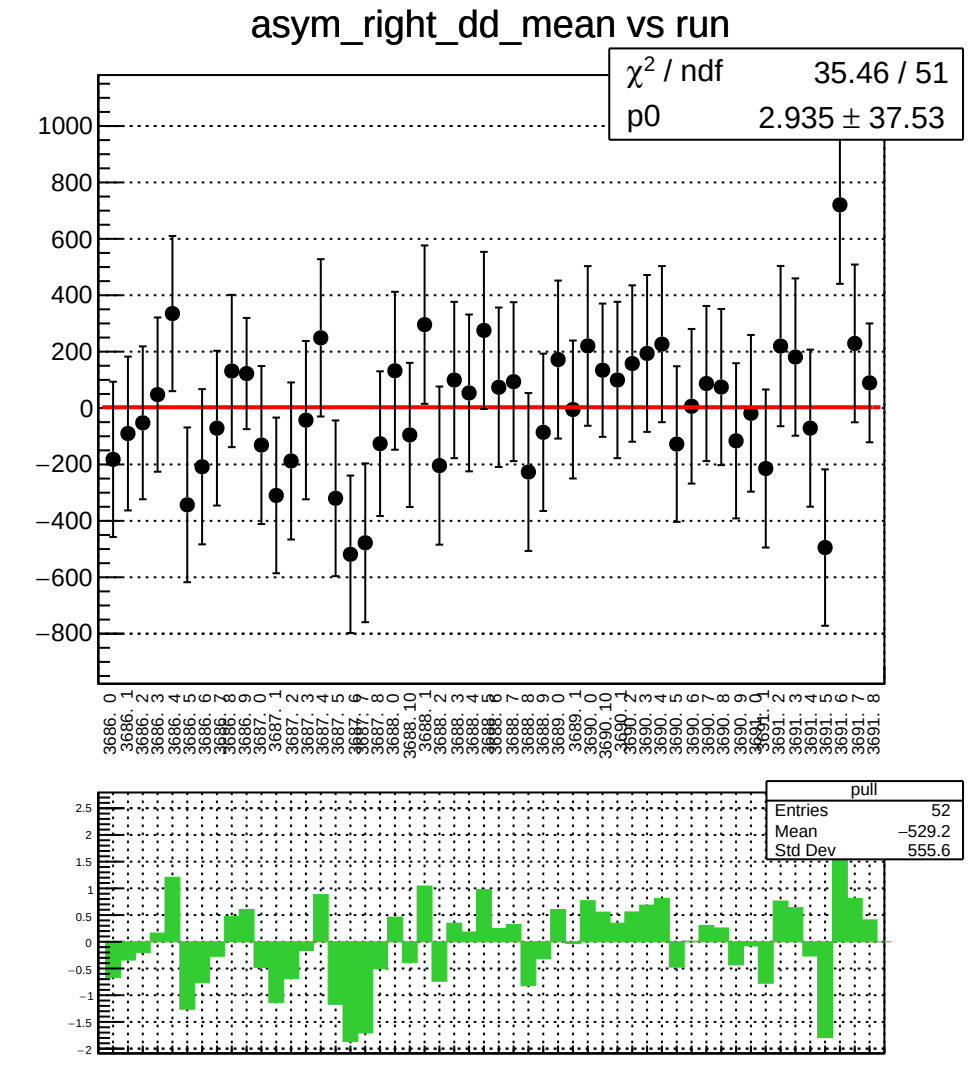

pull1D
Entries 52
Mean −0.003299
Std Dev 0.9758

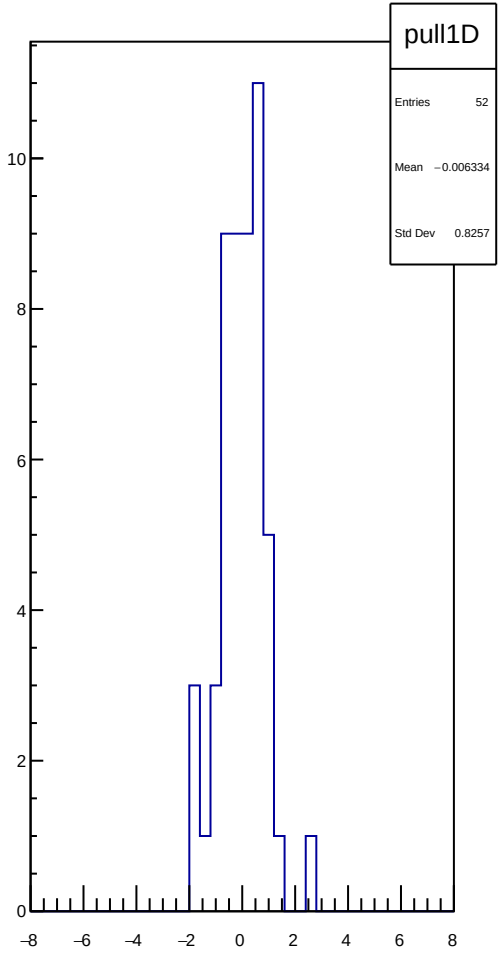

reg_asym_right_dd_rms vs run
χ² / ndf 137.5 / 51
p0 21.24 ± 0.0214
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4

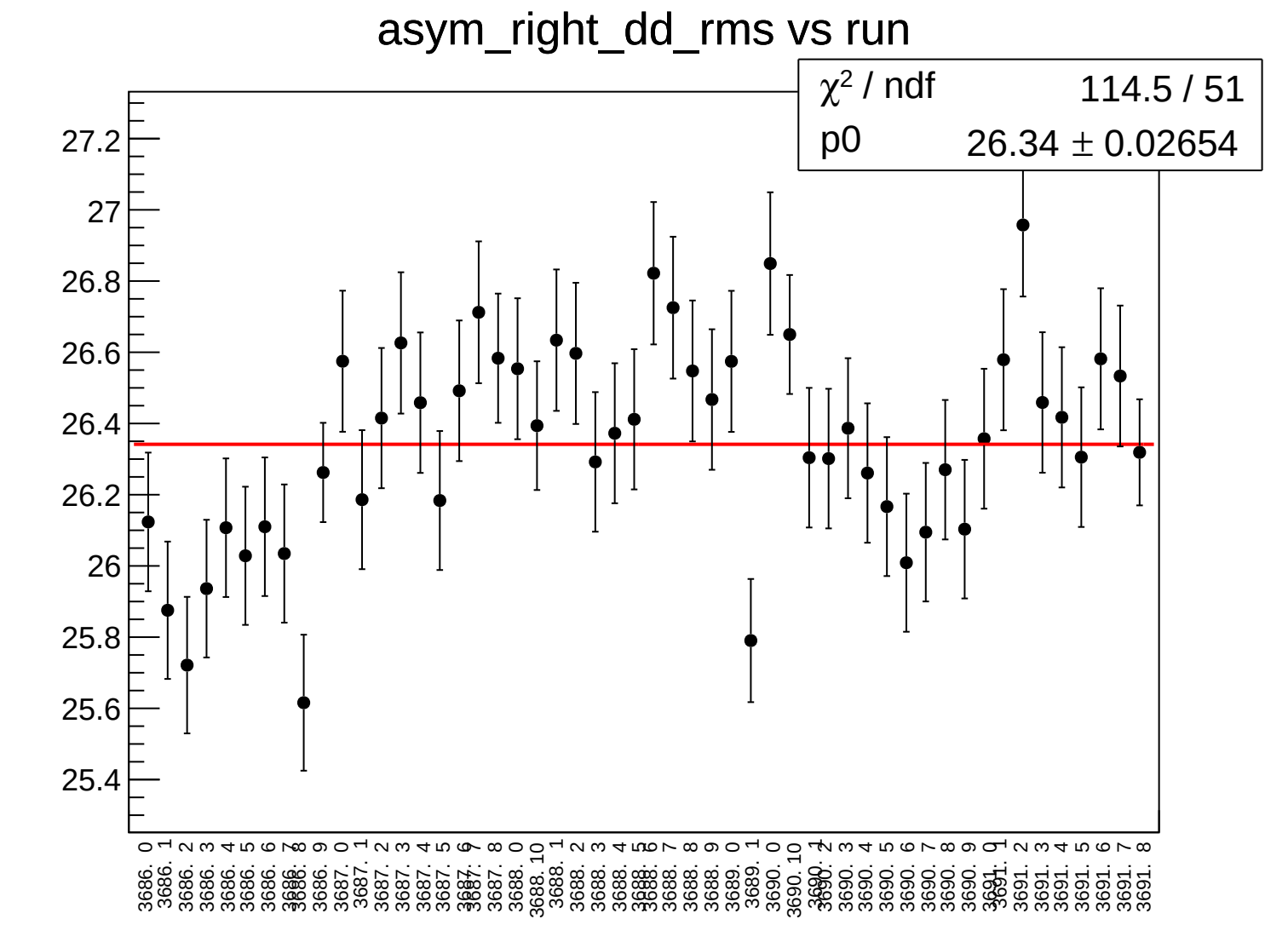

asym_right_dd_correction_mean vs run
χ² / ndf 37.48 / 51
p0 32.66 ± 22.18
400
200
0
−200
−400
pull
Entries 52
Mean 2209
Std Dev 2183
1.5
1
0.5
0
−0.5
−1
−1.5
−2

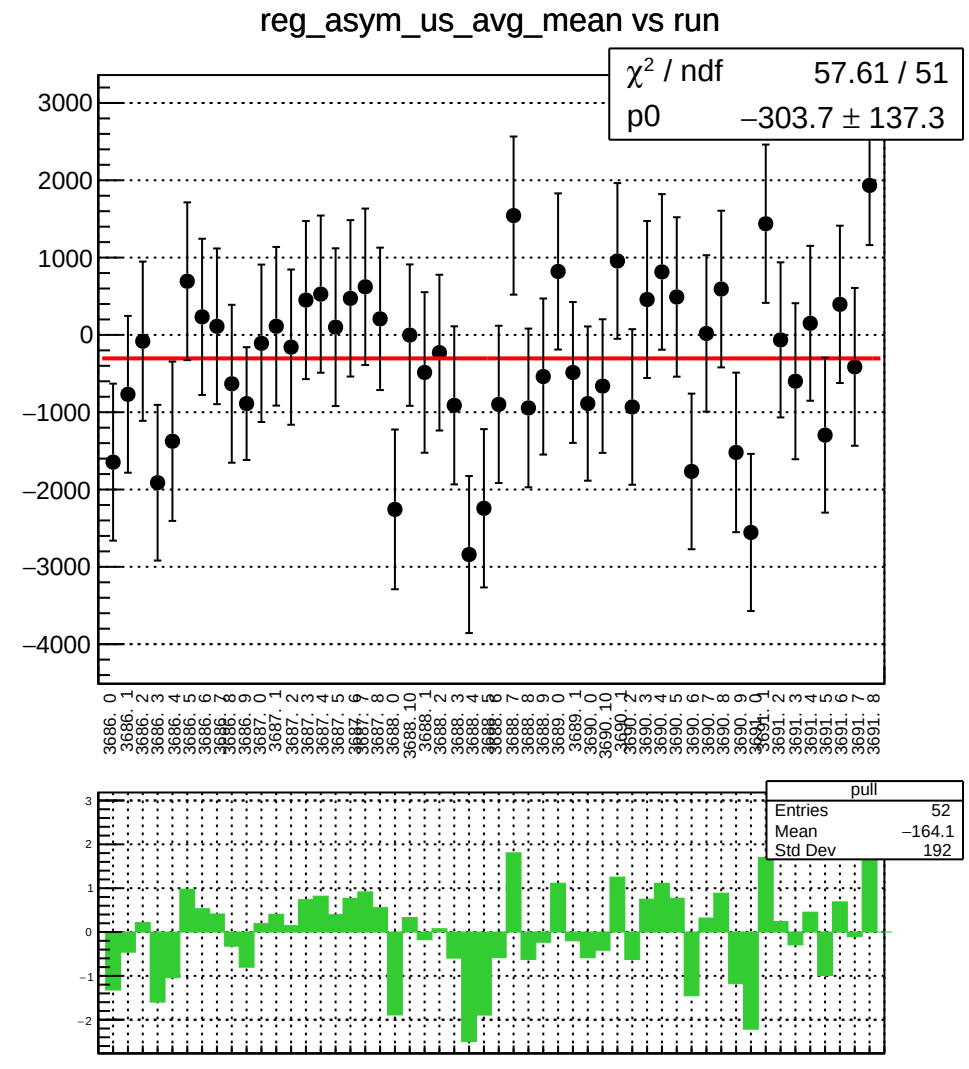

pull1D
Entries 52
Mean 0.001342
Std Dev 0.8489
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

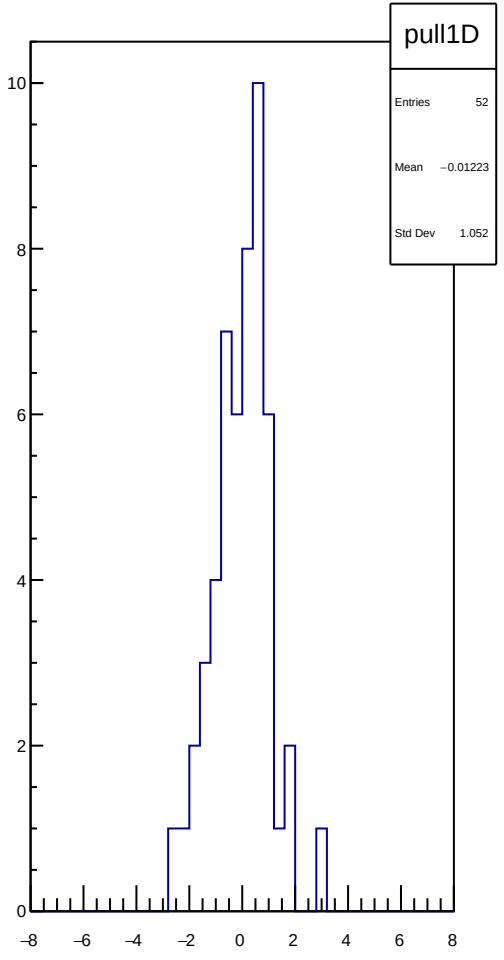

asym_right_dd_correction_rms vs run
χ² / ndf 410.8 / 51
p0 15.56 ± 0.01568
16.4
16.2
16
15.8
15.6
15.4
15.2
15
14.8
14.6

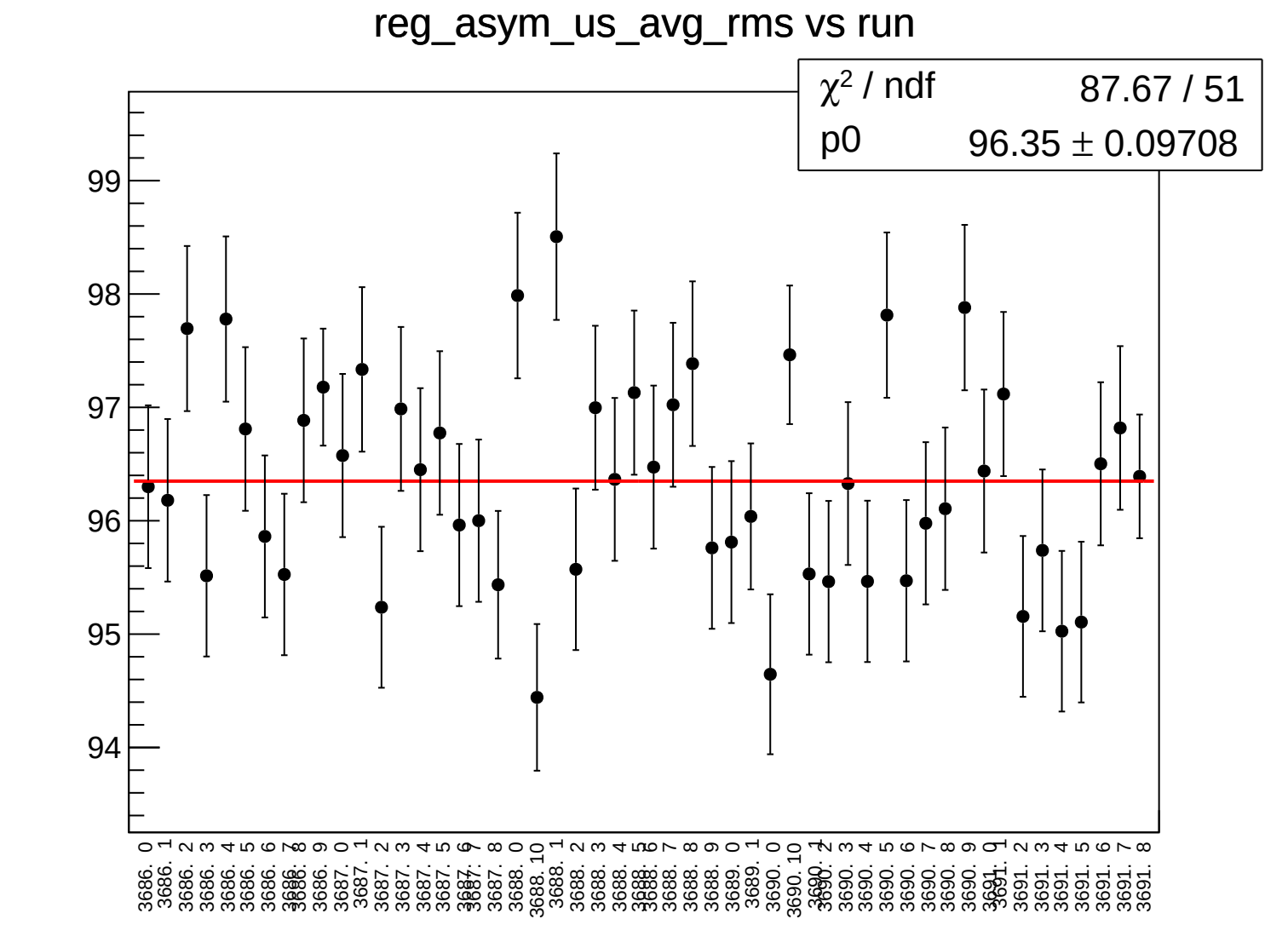

asym_right_dd_mean vs run
χ^2 / ndf 35.46 / 51
p0 2.935 ± 37.53
pull
Entries 52
Mean −529.2
Std Dev 555.6

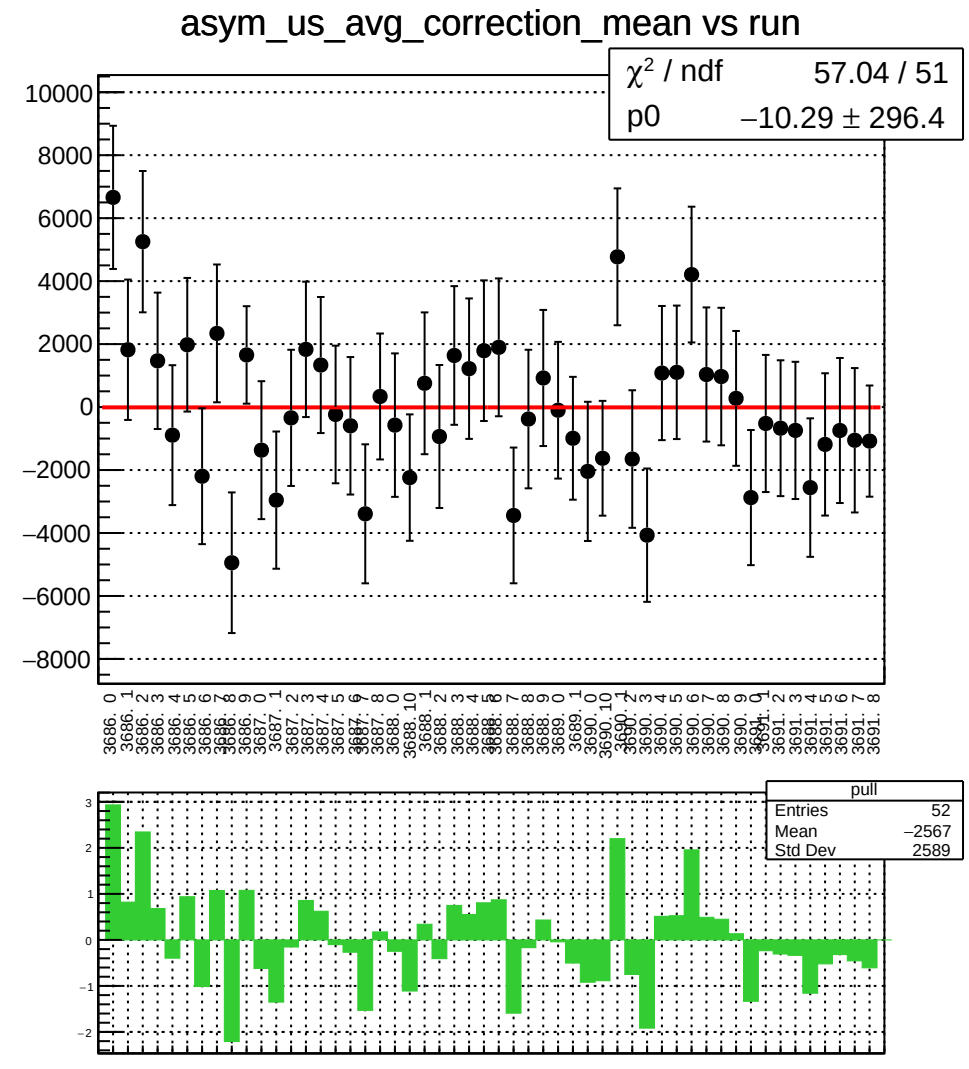

pull1D
Entries 52
Mean −0.006334
Std Dev 0.8257

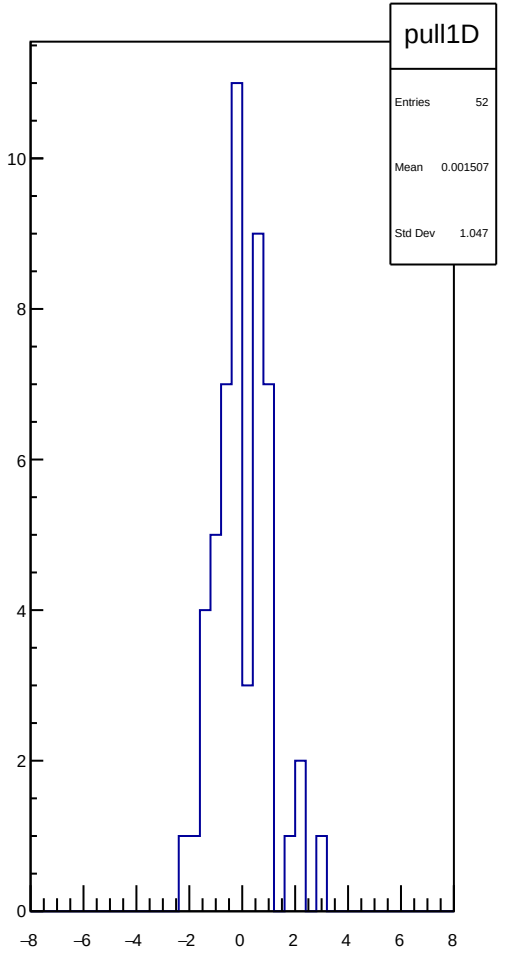

asym_right_dd_rms vs run
χ² / ndf 114.5 / 51
p0 26.34 ± 0.02654
27.2
27
26.8
26.6
26.4
26.2
26
25.8
25.6
25.4
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

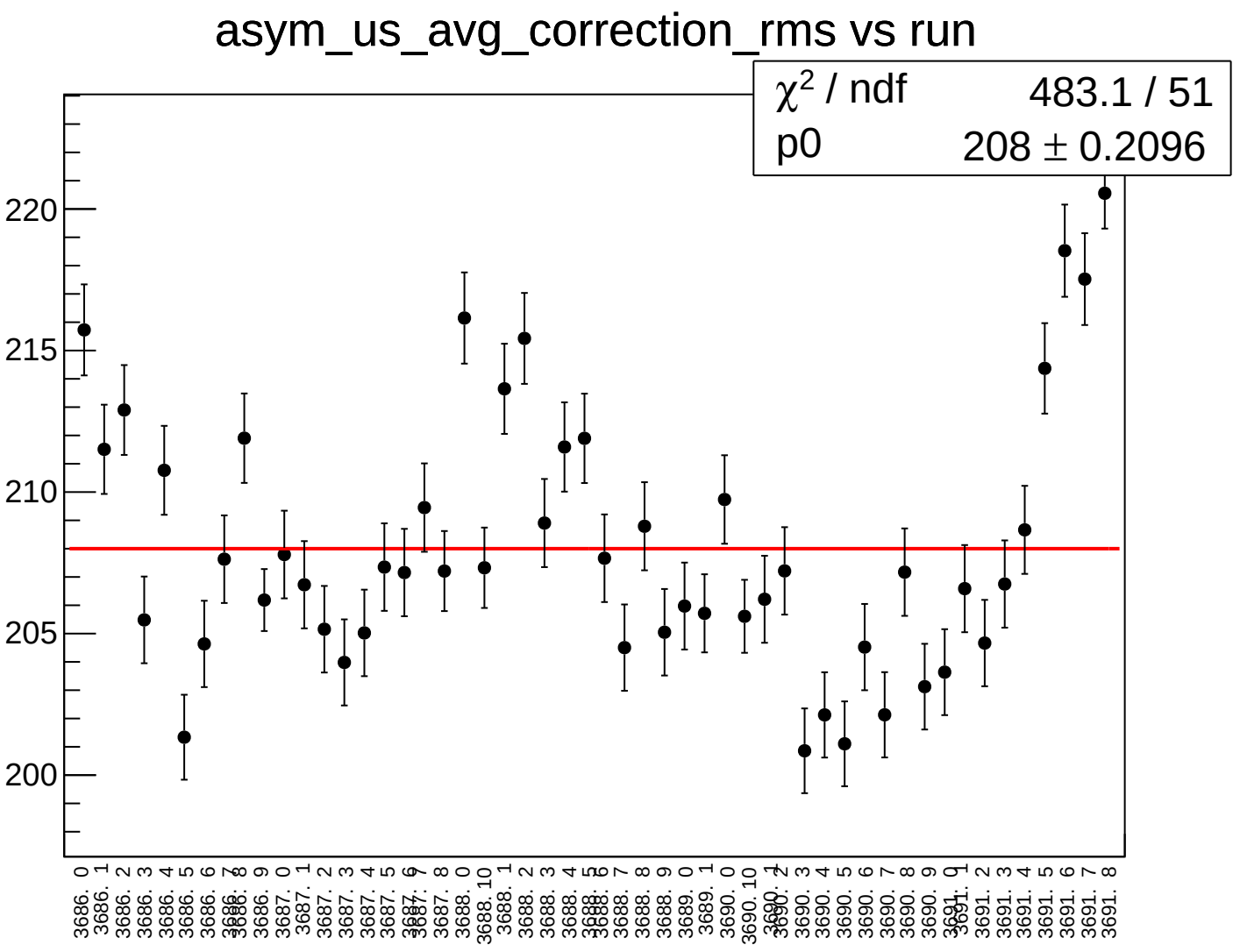

reg_asym_us_avg_mean vs run
χ² / ndf 57.61 / 51
p0 −303.7 ± 137.3
pull
Entries 52
Mean −164.1
Std Dev 192

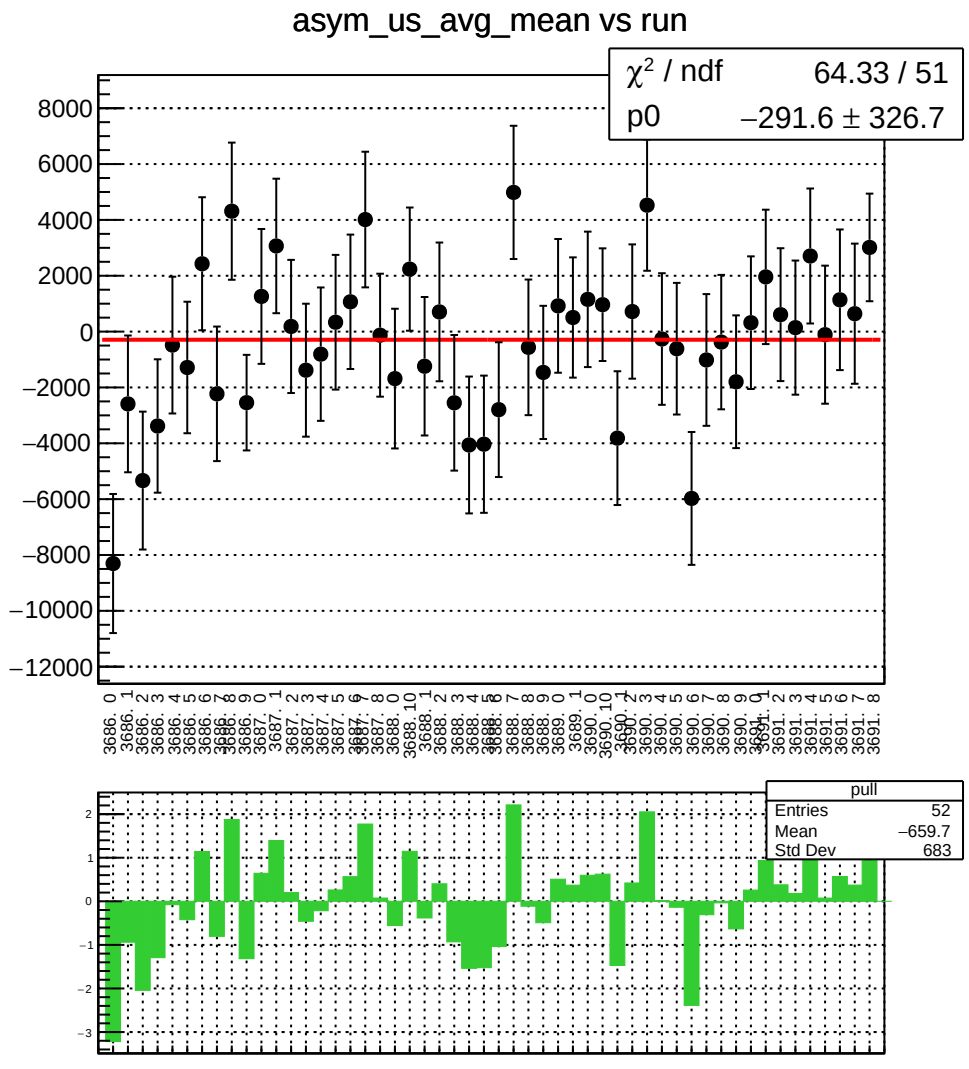

pull1D
Entries 52
Mean −0.01223
Std Dev 1.052

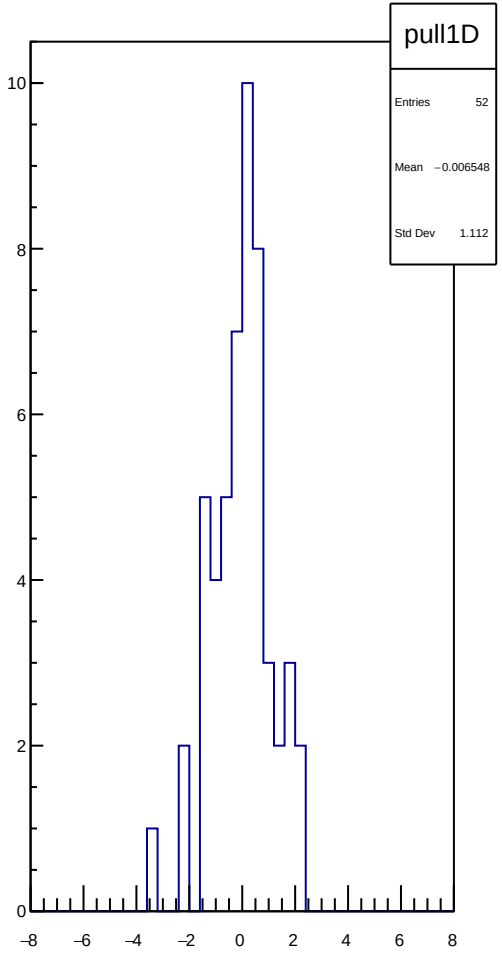

reg_asym_us_avg_rms vs run
χ^2 / ndf 87.67 / 51
p0 96.35 ± 0.09708
99
98
97
96
95
94
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

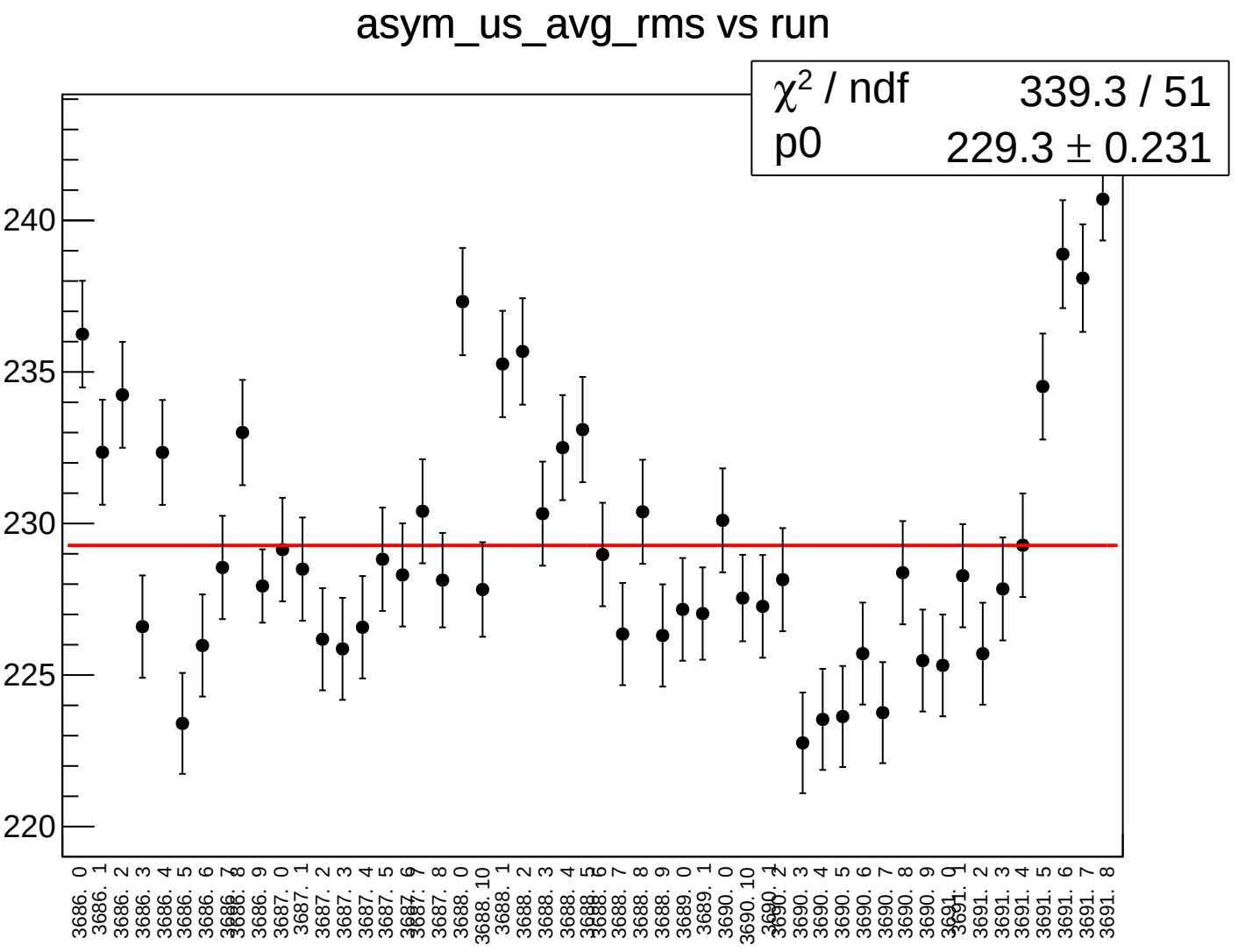

asym_us_avg_correction_mean vs run
χ² / ndf 57.04 / 51
p0 −10.29 ± 296.4
pull
Entries 52
Mean −2567
Std Dev 2589

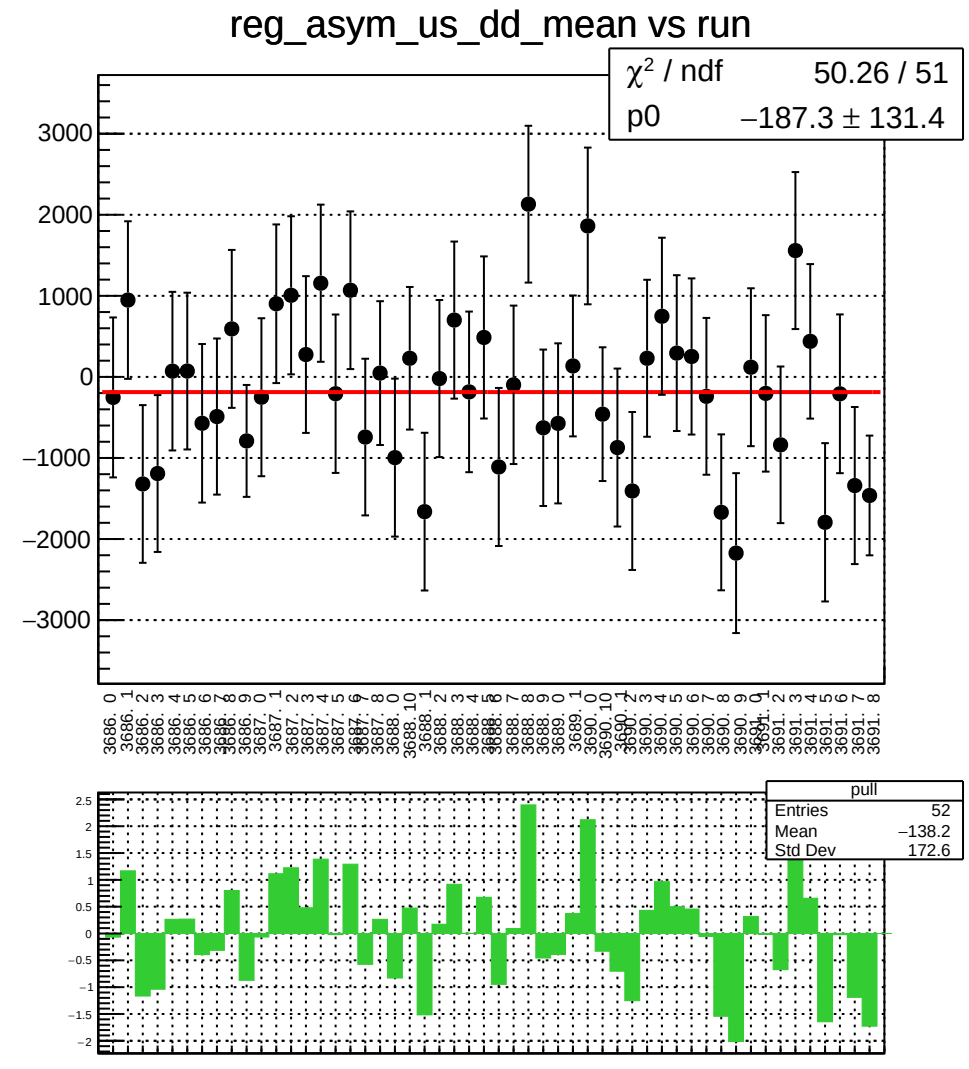

pull1D
Entries 52
Mean 0.001507
Std Dev 1.047

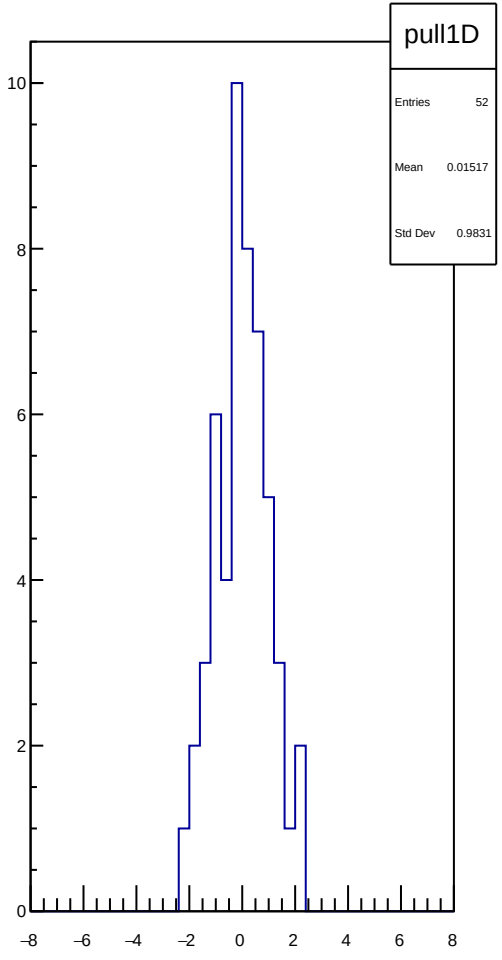

asym_us_avg_correction_rms vs run
χ² / ndf 483.1 / 51
p0 208 ± 0.2096
220
215
210
205
200
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

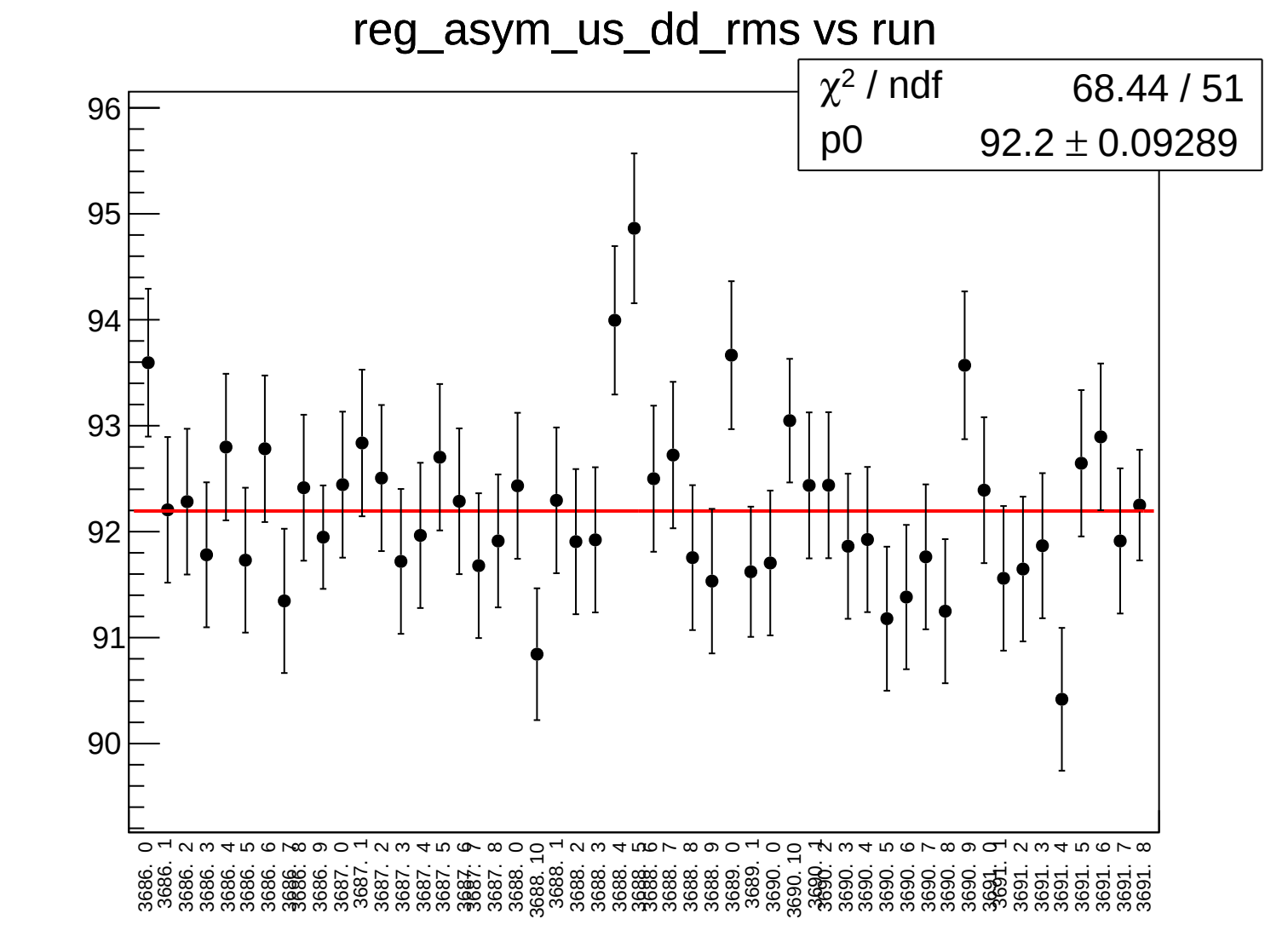

asym_us_avg_mean vs run
χ² / ndf 64.33 / 51
p0 −291.6 ± 326.7
pull
Entries 52
Mean −659.7
Std Dev 683


pull1D
Entries 52
Mean −0.006548
Std Dev 1.112


asym_us_avg_rms vs run
χ² / ndf 339.3 / 51
p0 229.3 ± 0.231
240
235
230
225
220
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


reg_asym_us_dd_mean vs run
χ^2 / ndf 50.26 / 51
p0 −187.3 ± 131.4
pull
Entries 52
Mean −138.2
Std Dev 172.6


pull1D
Entries 52
Mean 0.01517
Std Dev 0.9831


reg_asym_us_dd_rms vs run
χ² / ndf 68.44 / 51
p0 92.2 ± 0.09289
96
95
94
93
92
91
90
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
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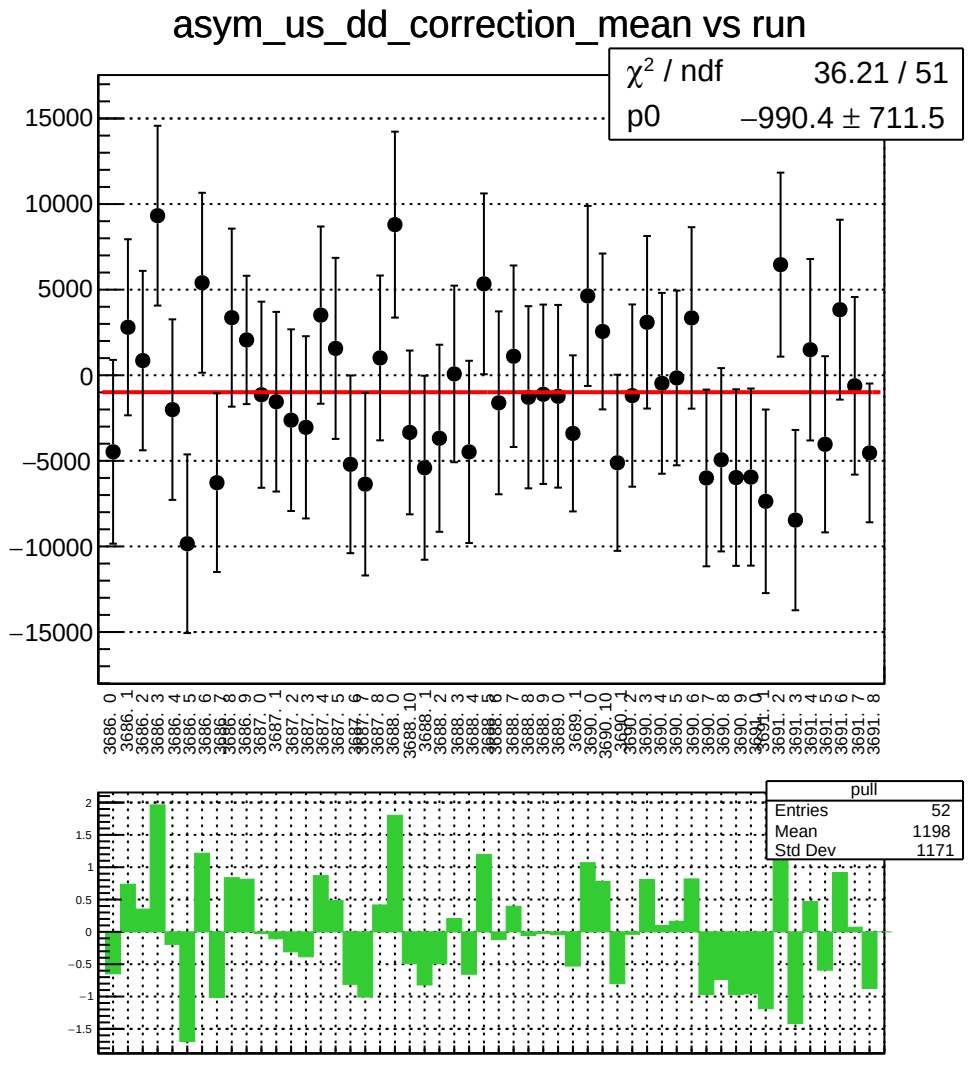
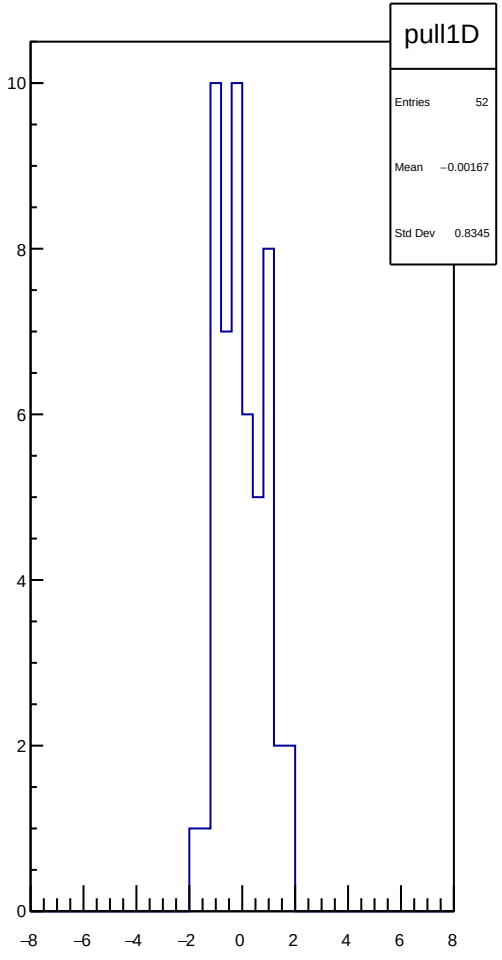
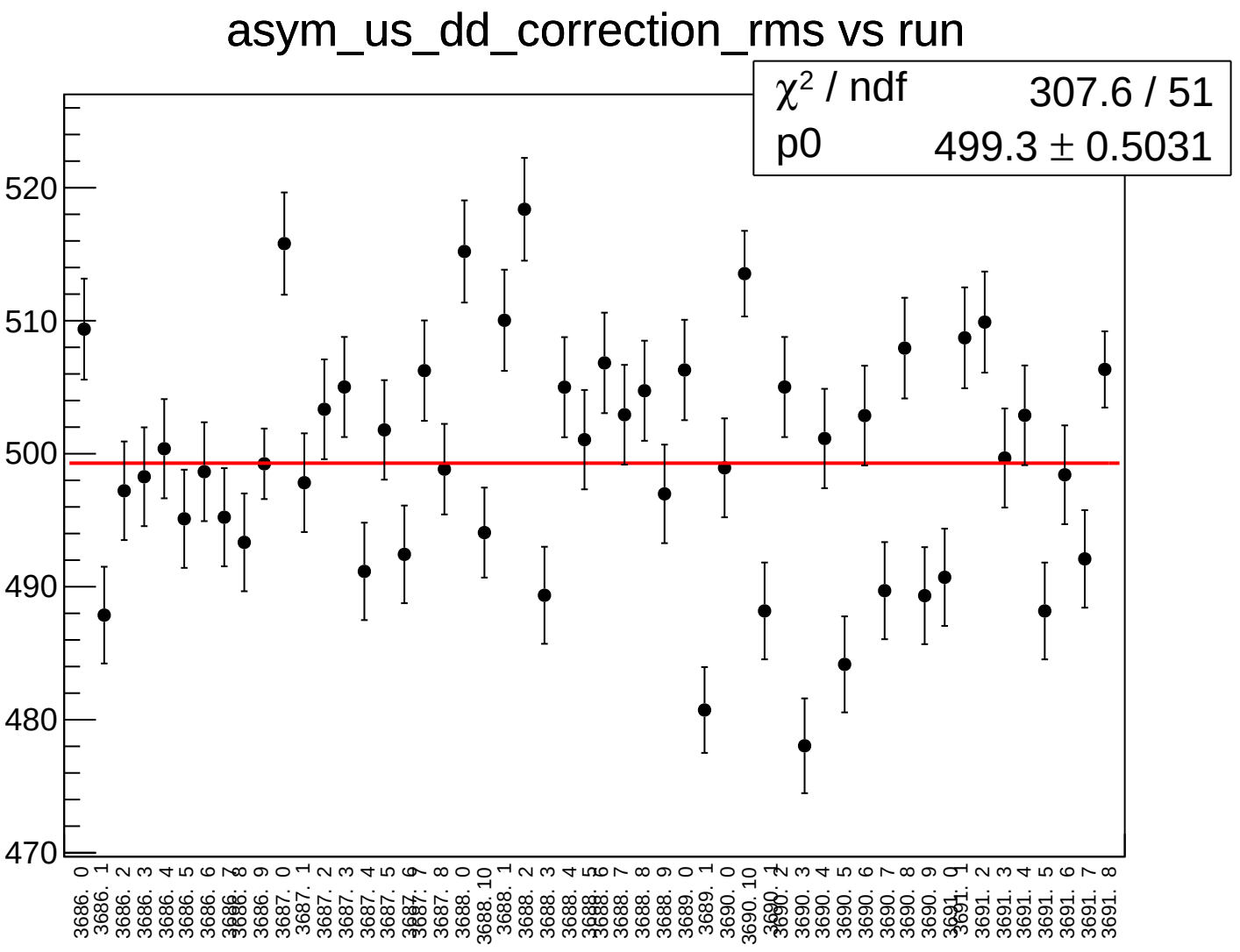
3691. 8


asym_us_dd_correction_mean vs run
χ² / ndf 36.21 / 51
p0 −990.4 ± 711.5
pull
Entries 52
Mean 1198
Std Dev 1171


pull1D
Entries 52
Mean −0.00167
Std Dev 0.8345


asym_us_dd_correction_rms vs run
χ² / ndf 307.6 / 51
p0 499.3 ± 0.5031
520
510
500
490
480
470
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
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3690. 9
3691. 1
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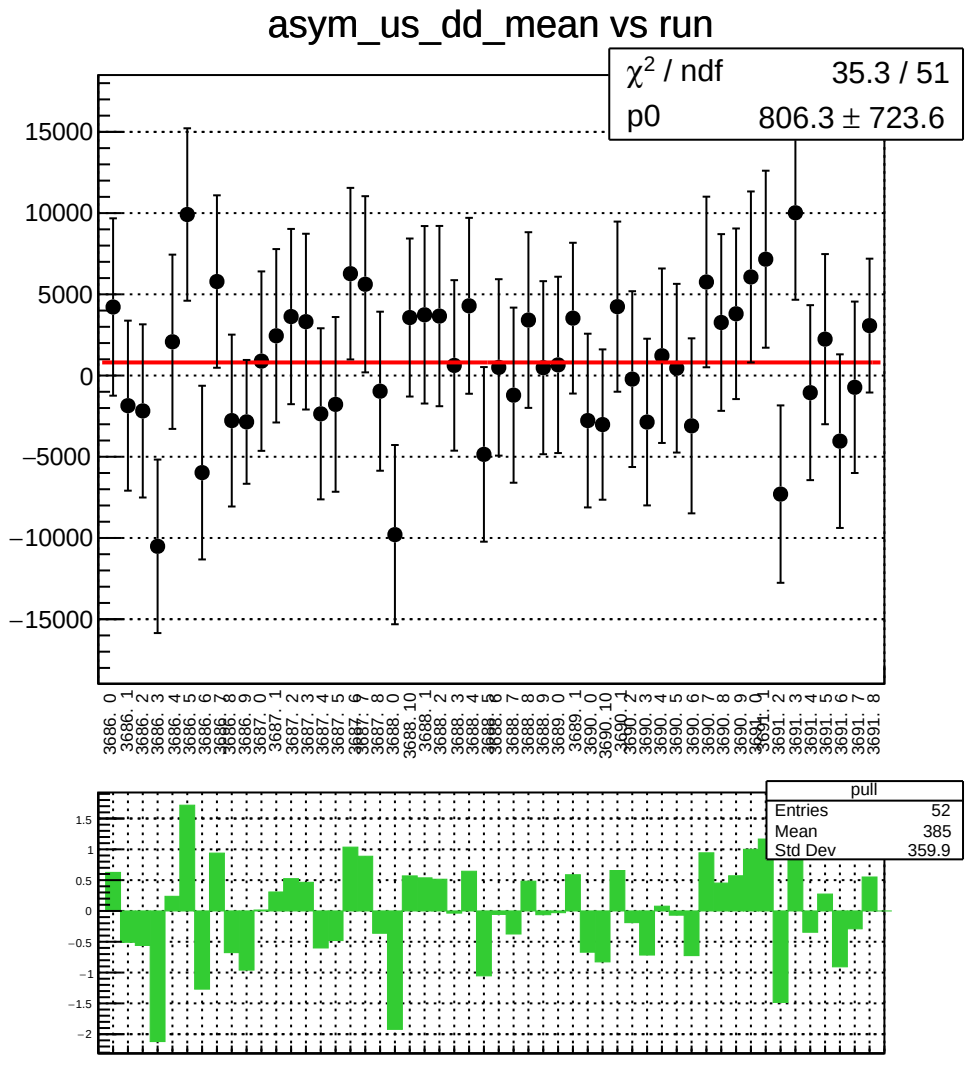
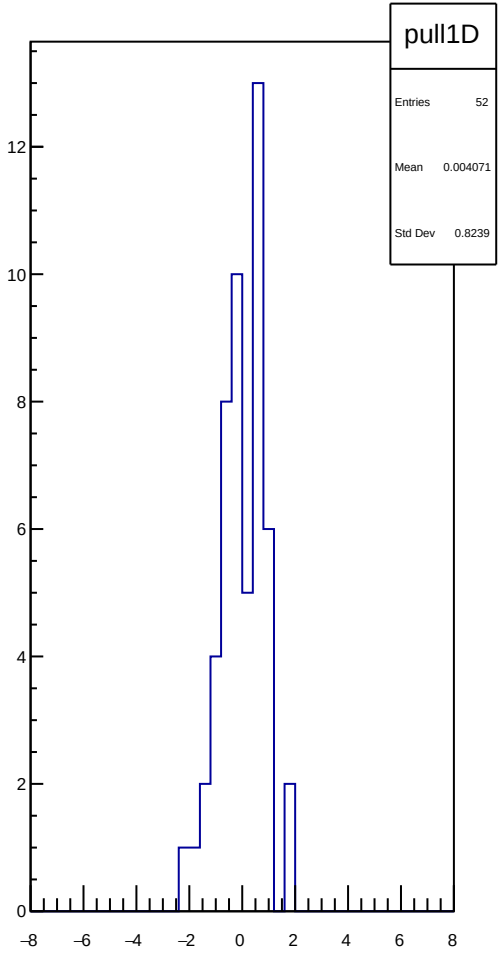
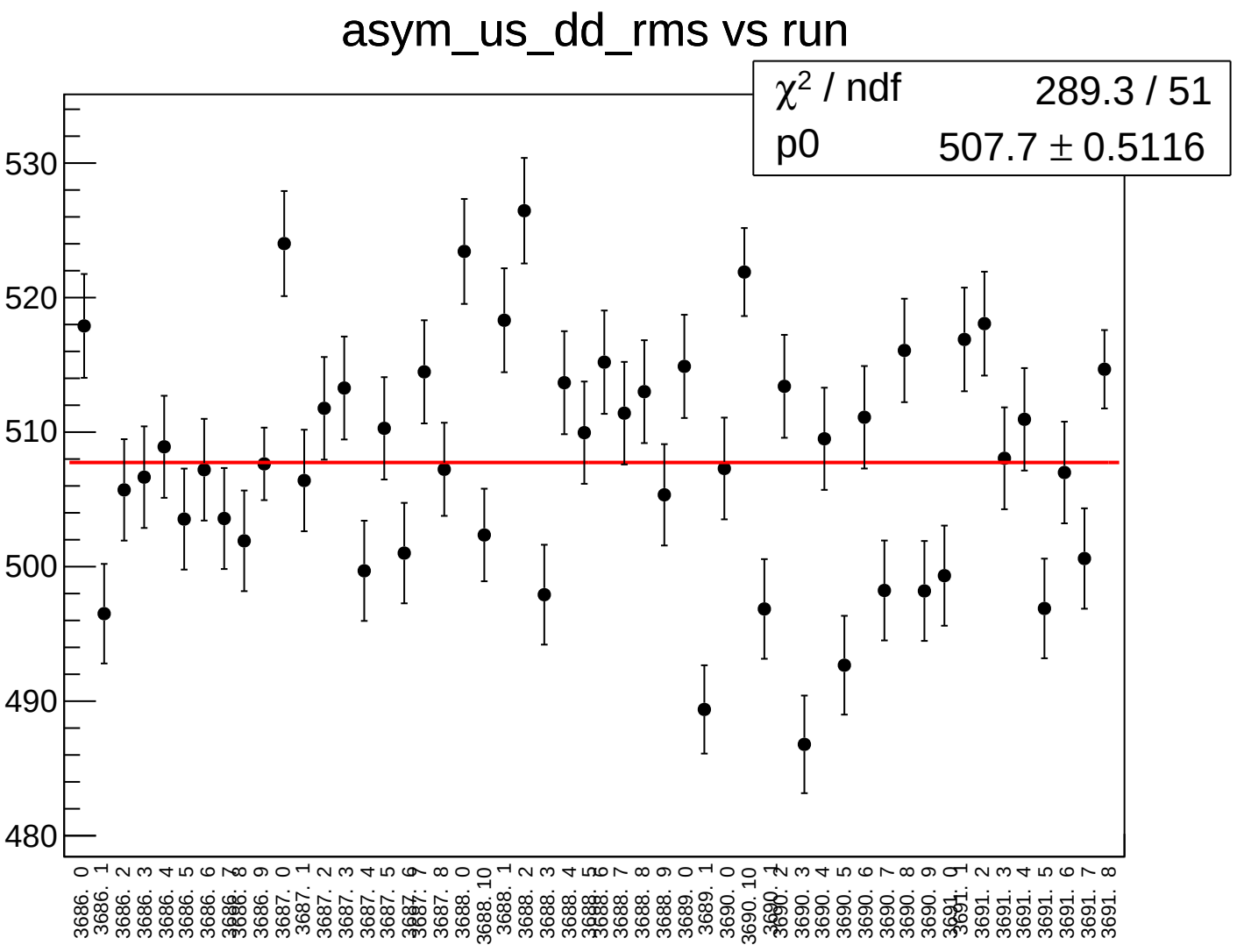
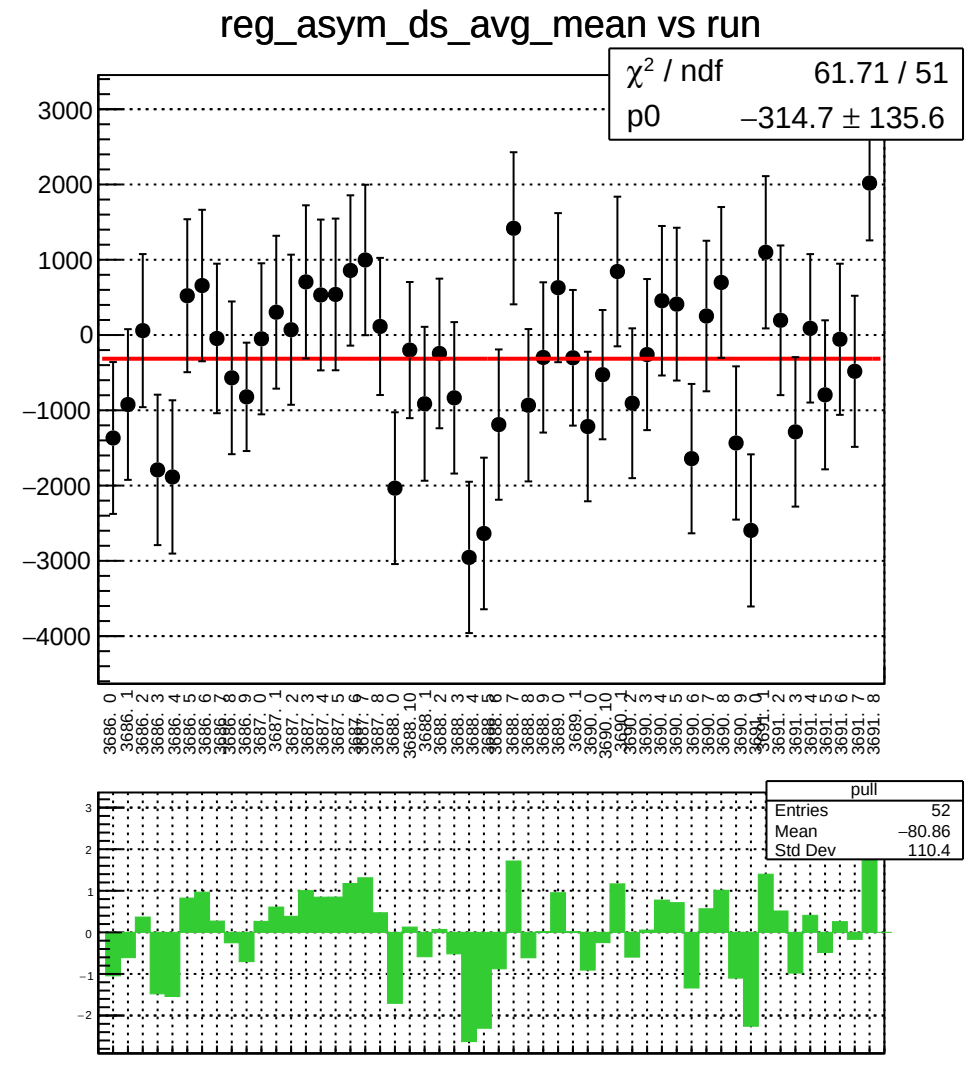
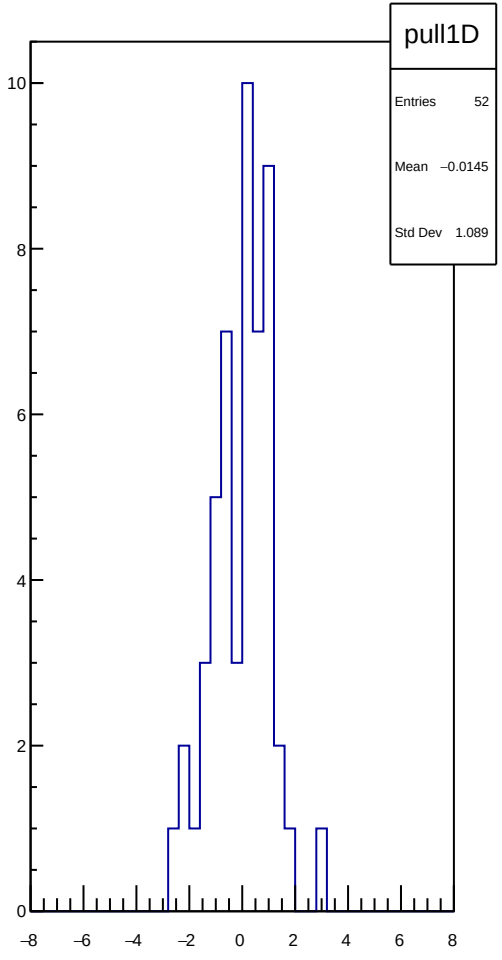
3691. 6
3691. 7
3691. 8

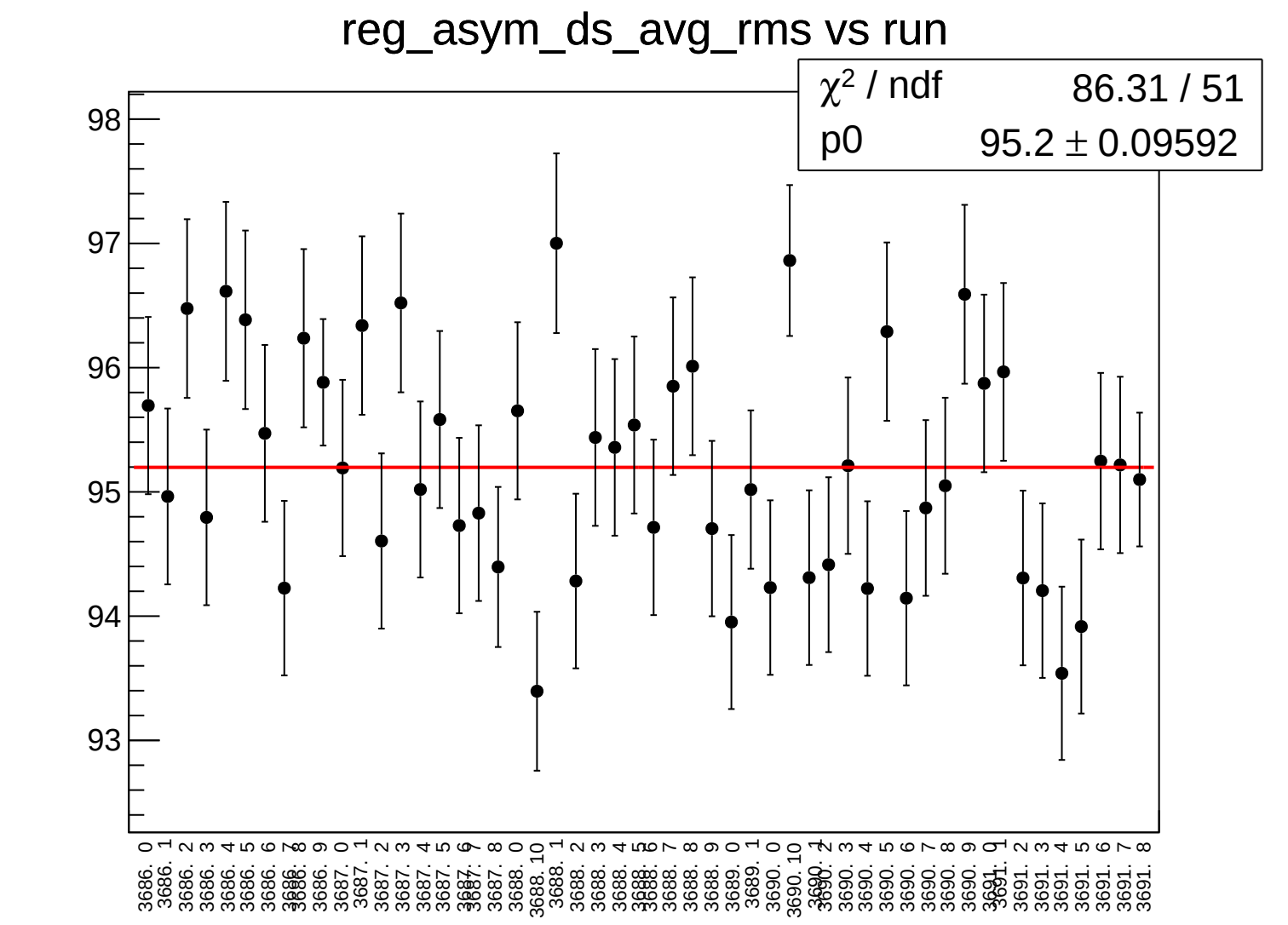

asym_us_dd_mean vs run
χ² / ndf 35.3 / 51
p0 806.3 ± 723.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 52
Mean 385
Std Dev 359.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 52
Mean 0.004071
Std Dev 0.8239
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_rms vs run
χ² / ndf 289.3 / 51
p0 507.7 ± 0.5116
530
520
510
500
490
480
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


reg_asym_ds_avg_mean vs run
χ² / ndf 61.71 / 51
p0 −314.7 ± 135.6
pull
Entries 52
Mean −80.86
Std Dev 110.4


pull1D
Entries 52
Mean −0.0145
Std Dev 1.089


reg_asym_ds_avg_rms vs run
χ² / ndf 86.31 / 51
p0 95.2 ± 0.09592
98
97
96
95
94
93
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
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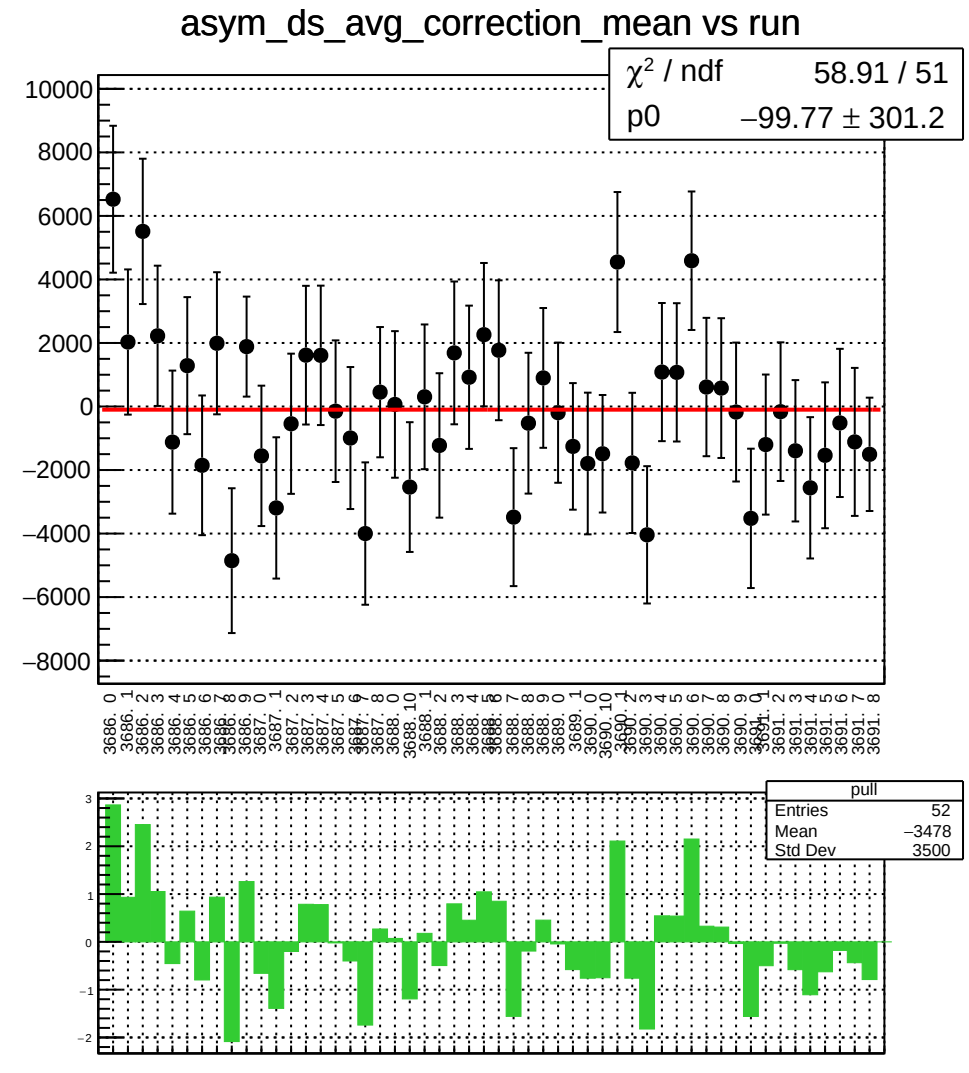
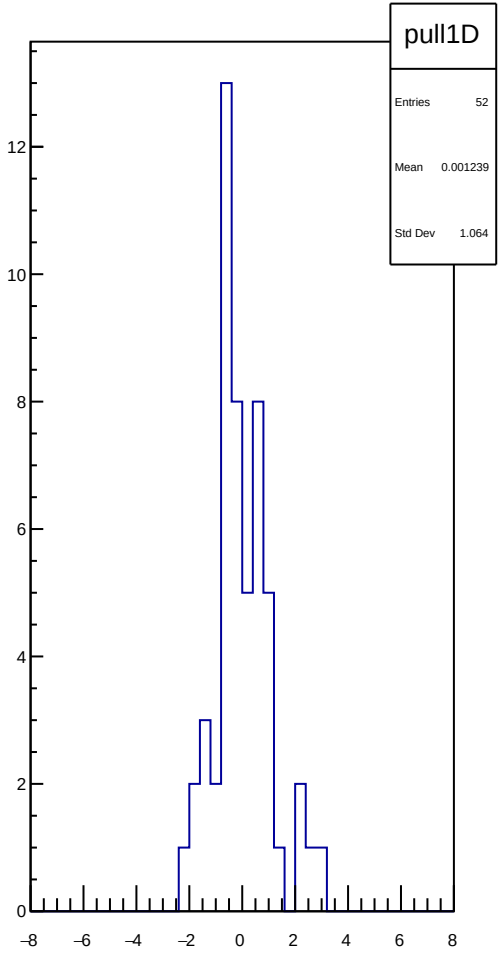
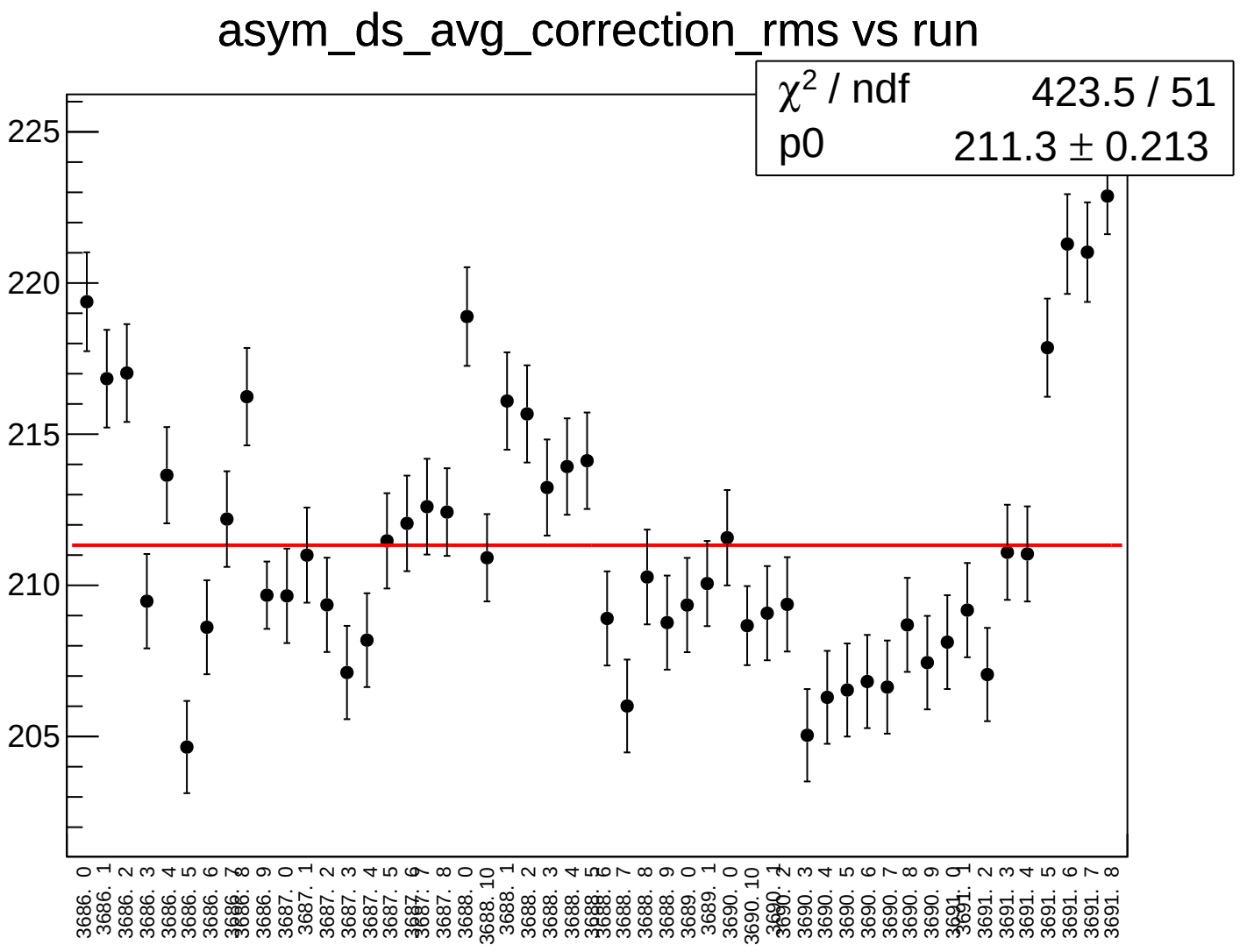
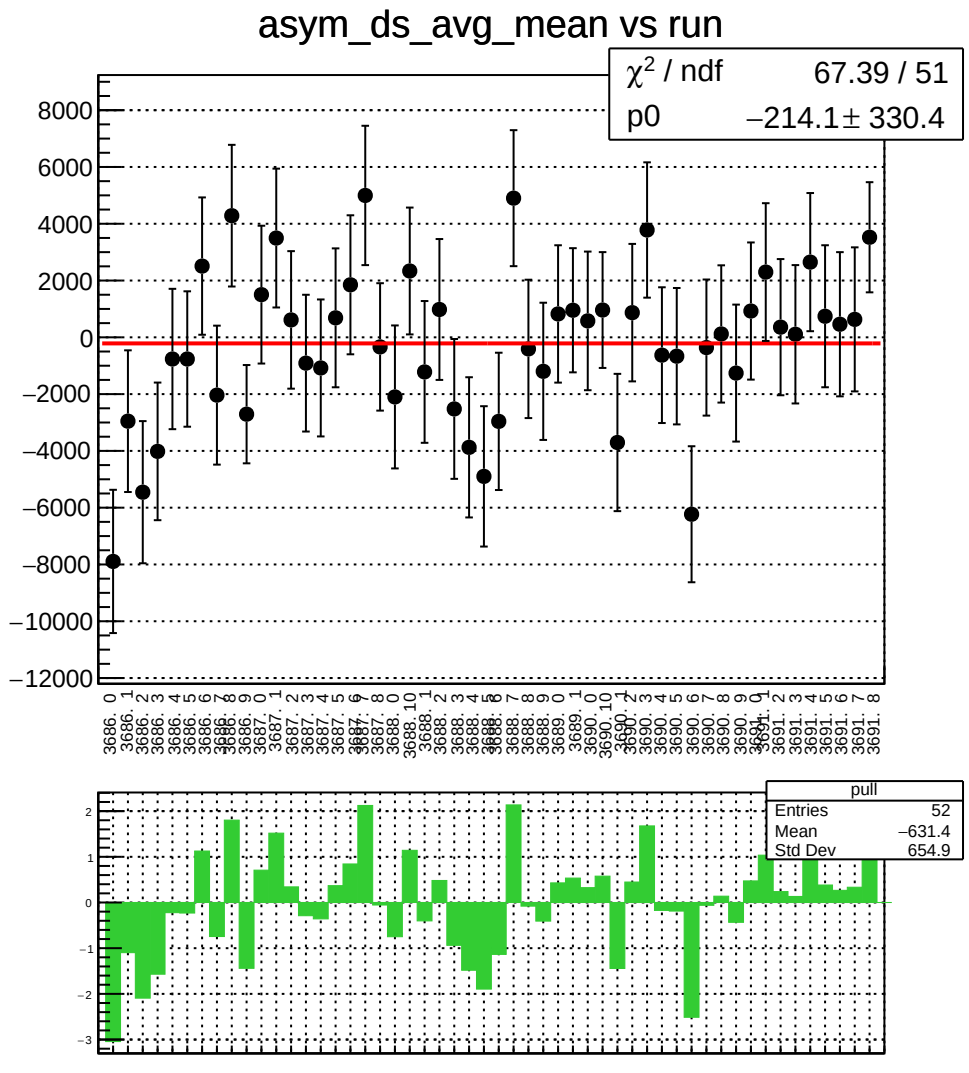
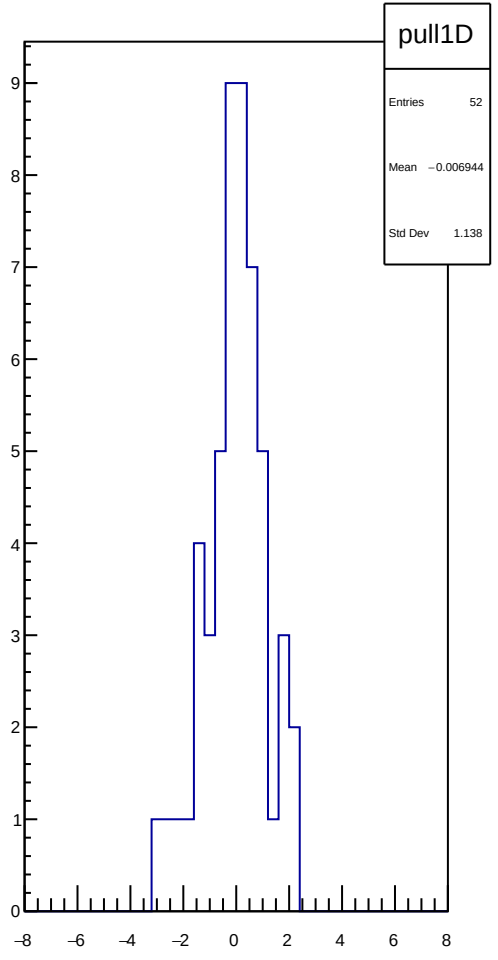
3691. 7
3691. 8

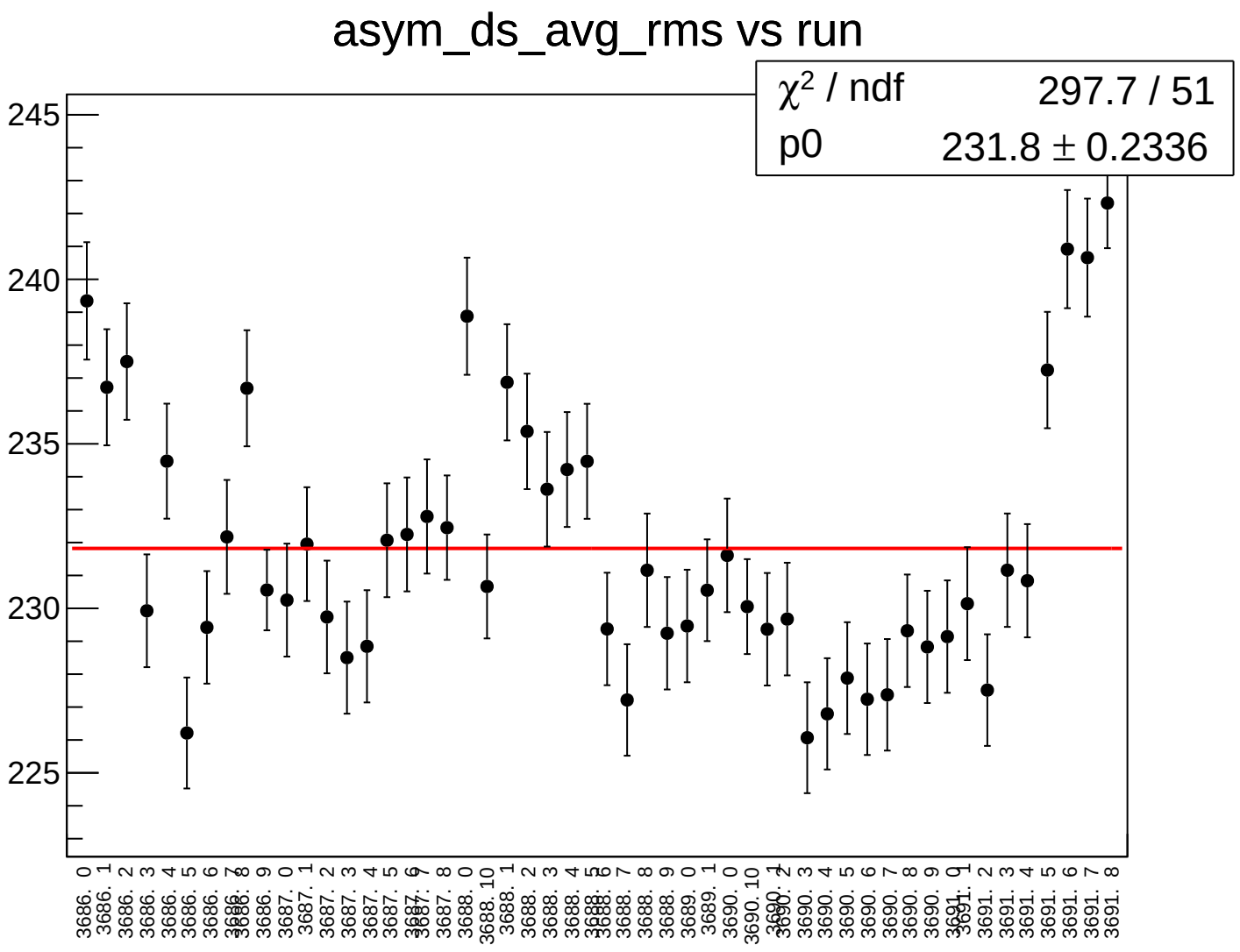

asym_ds_avg_correction_mean vs run
χ² / ndf 58.91 / 51
p0 −99.77 ± 301.2
pull
Entries 52
Mean −3478
Std Dev 3500


pull1D
Entries 52
Mean 0.001239
Std Dev 1.064


asym_ds_avg_correction_rms vs run
χ² / ndf 423.5 / 51
p0 211.3 ± 0.213
225
220
215
210
205
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


asym_ds_avg_mean vs run
χ² / ndf 67.39 / 51
p0 −214.1± 330.4
pull
Entries 52
Mean −631.4
Std Dev 654.9


pull1D
Entries 52
Mean −0.006944
Std Dev 1.138


asym_ds_avg_rms vs run
χ² / ndf 297.7 / 51
p0 231.8 ± 0.2336
245
240
235
230
225
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
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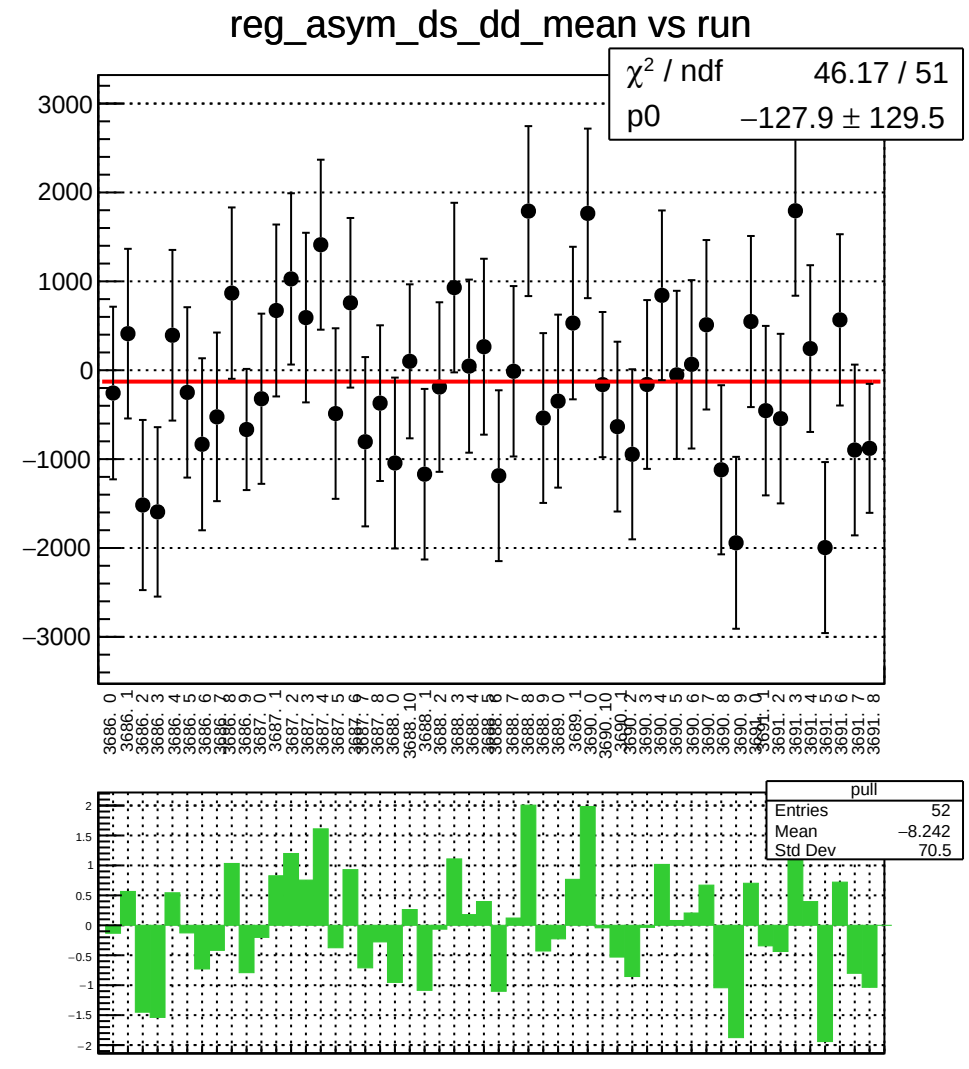
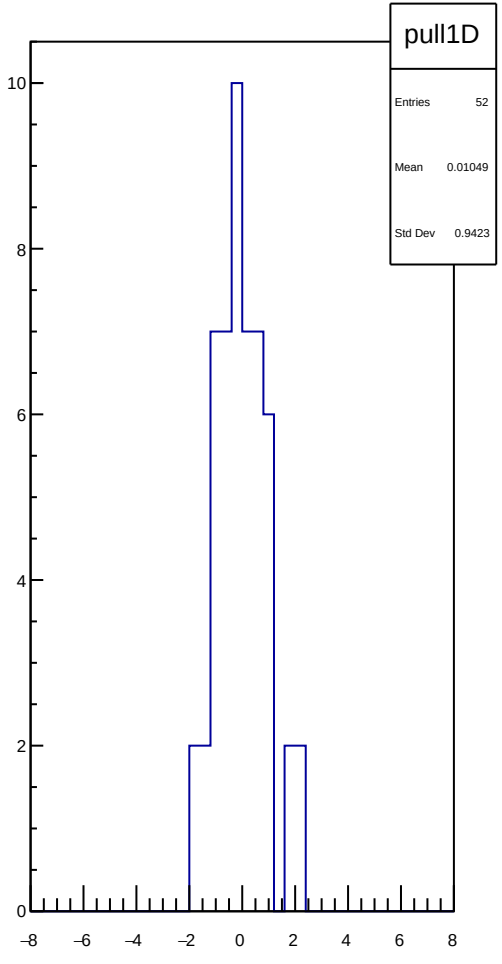
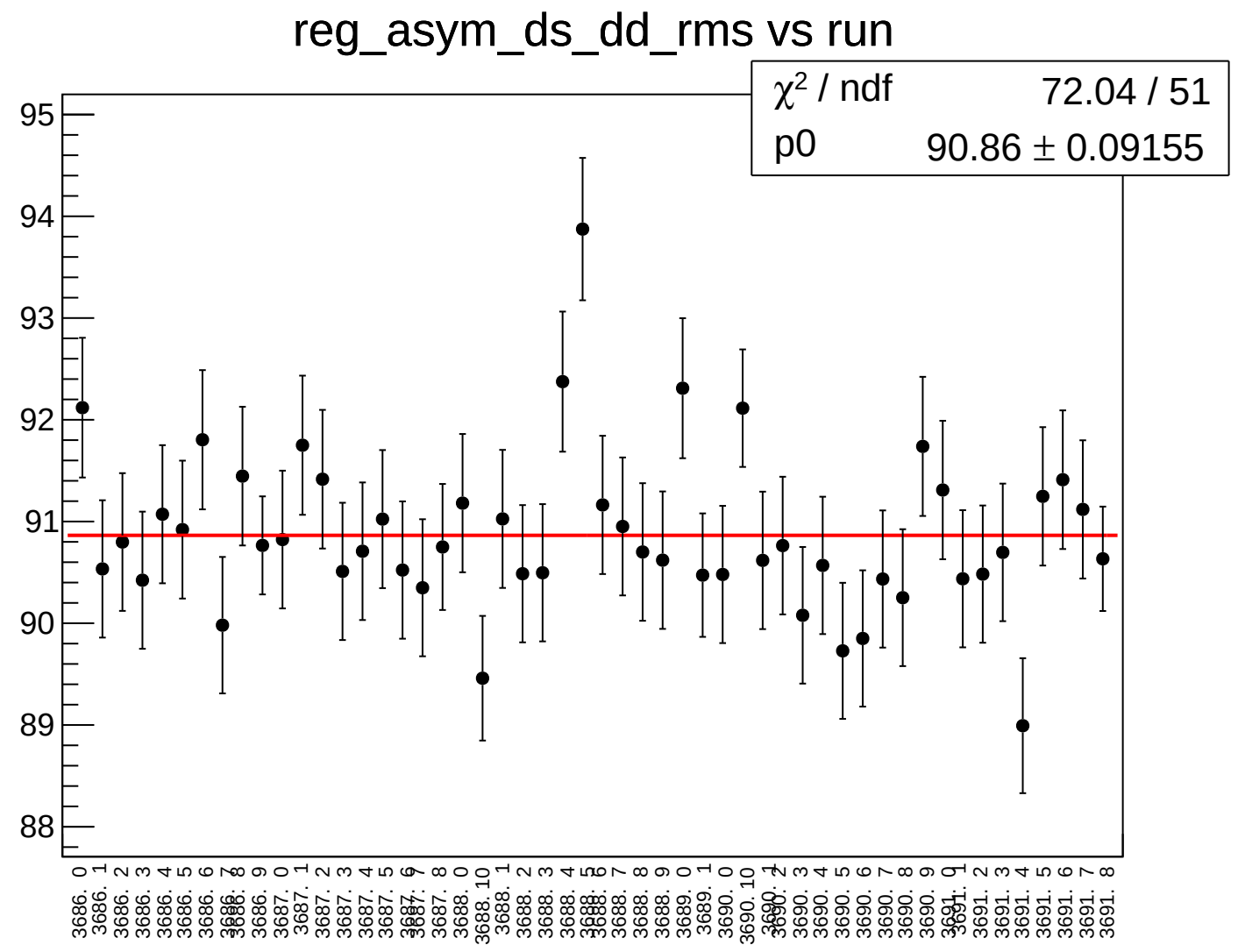
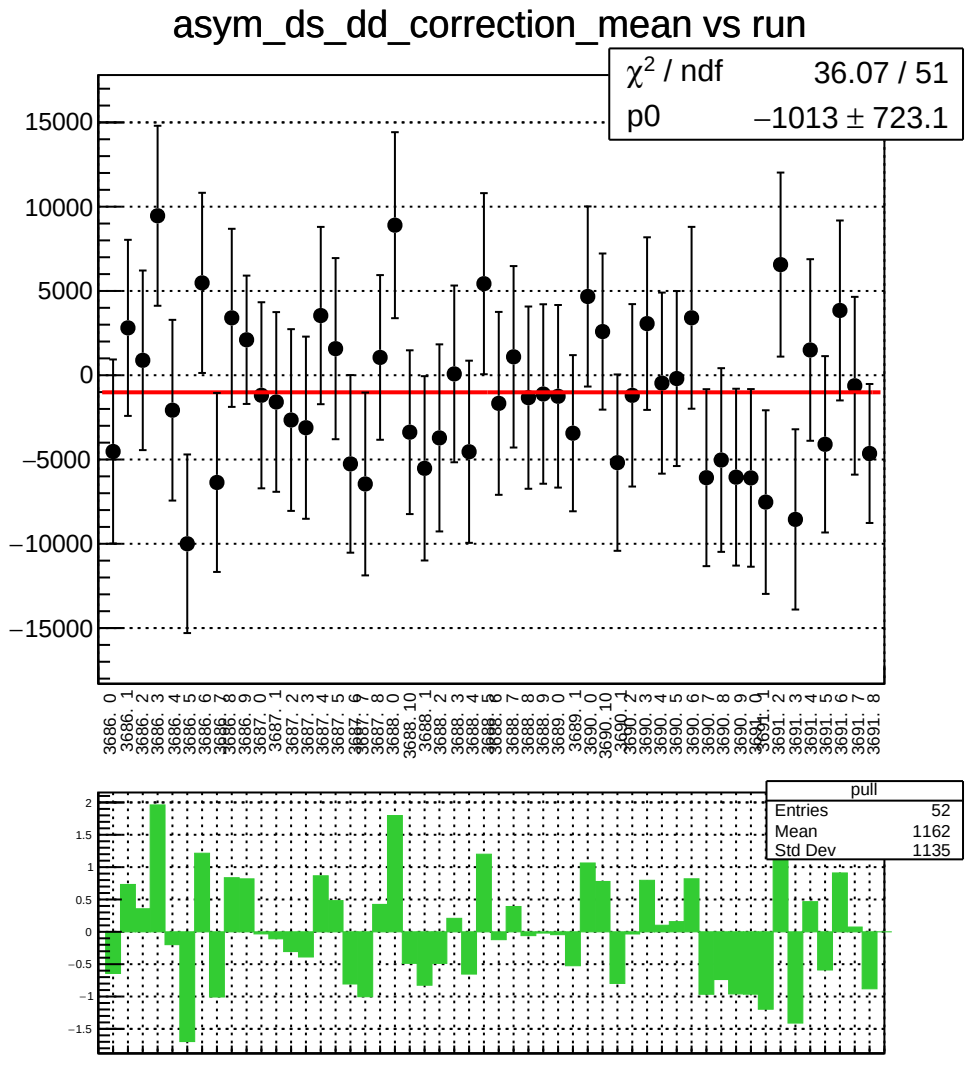
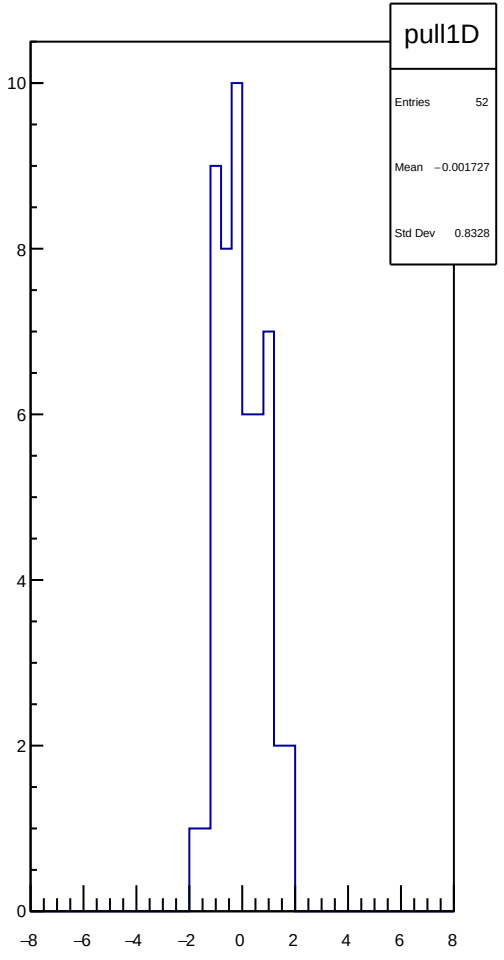
3691. 7
3691. 8

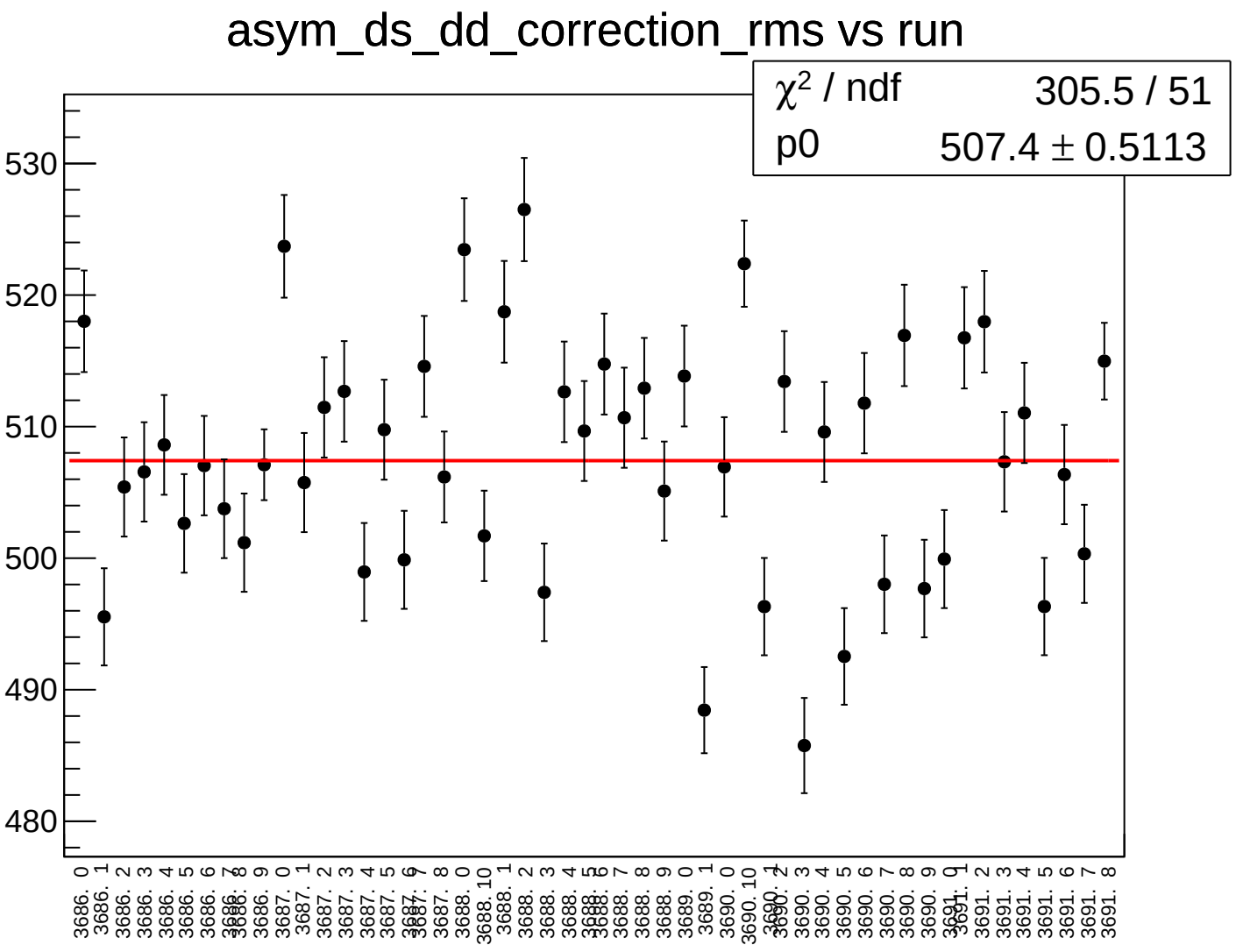

reg_asym_ds_dd_mean vs run
χ² / ndf 46.17 / 51
p0 −127.9 ± 129.5
pull
Entries 52
Mean −8.242
Std Dev 70.5


pull1D
Entries 52
Mean 0.01049
Std Dev 0.9423


reg_asym_ds_dd_rms vs run
χ² / ndf 72.04 / 51
p0 90.86 ± 0.09155
95
94
93
92
91
90
89
88
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


asym_ds_dd_correction_mean vs run
χ² / ndf 36.07 / 51
p0 −1013 ± 723.1
pull
Entries 52
Mean 1162
Std Dev 1135


pull1D
Entries 52
Mean −0.001727
Std Dev 0.8328


asym_ds_dd_correction_rms vs run
χ² / ndf 305.5 / 51
p0 507.4 ± 0.5113
530
520
510
500
490
480
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
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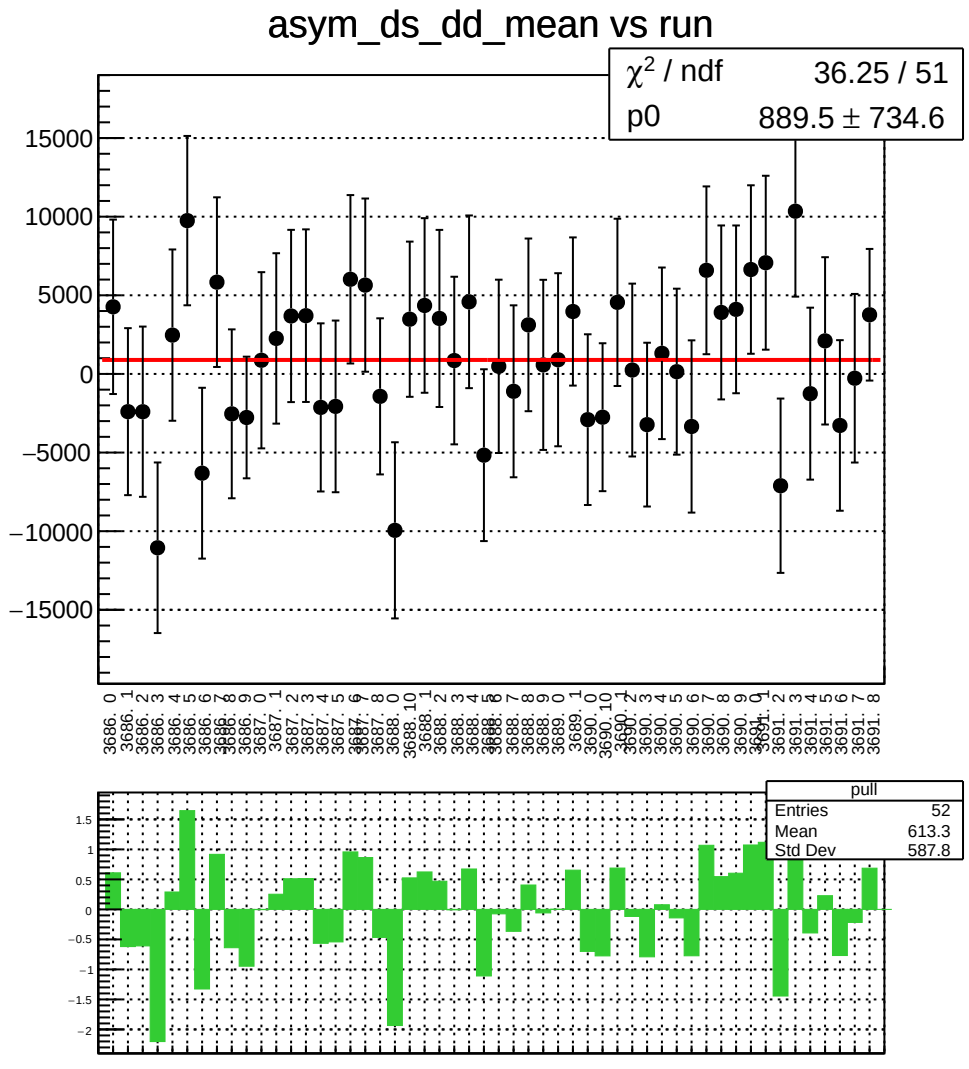
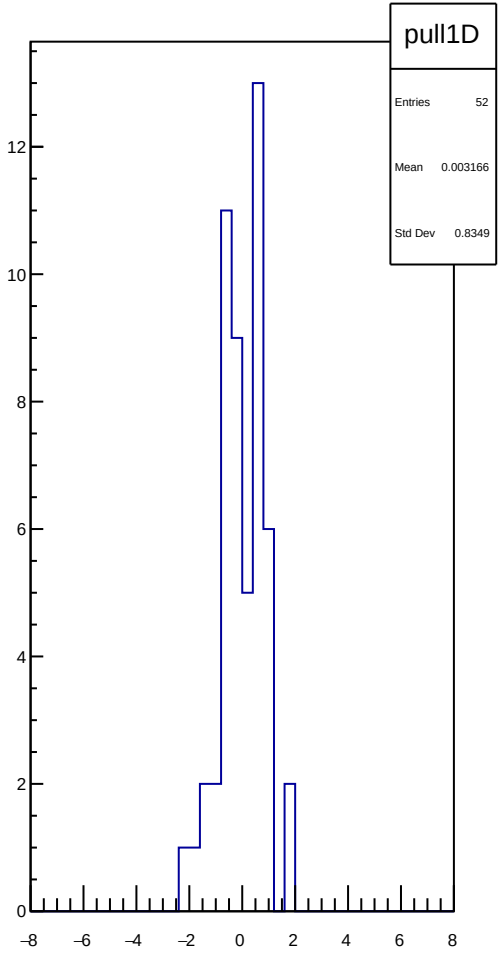
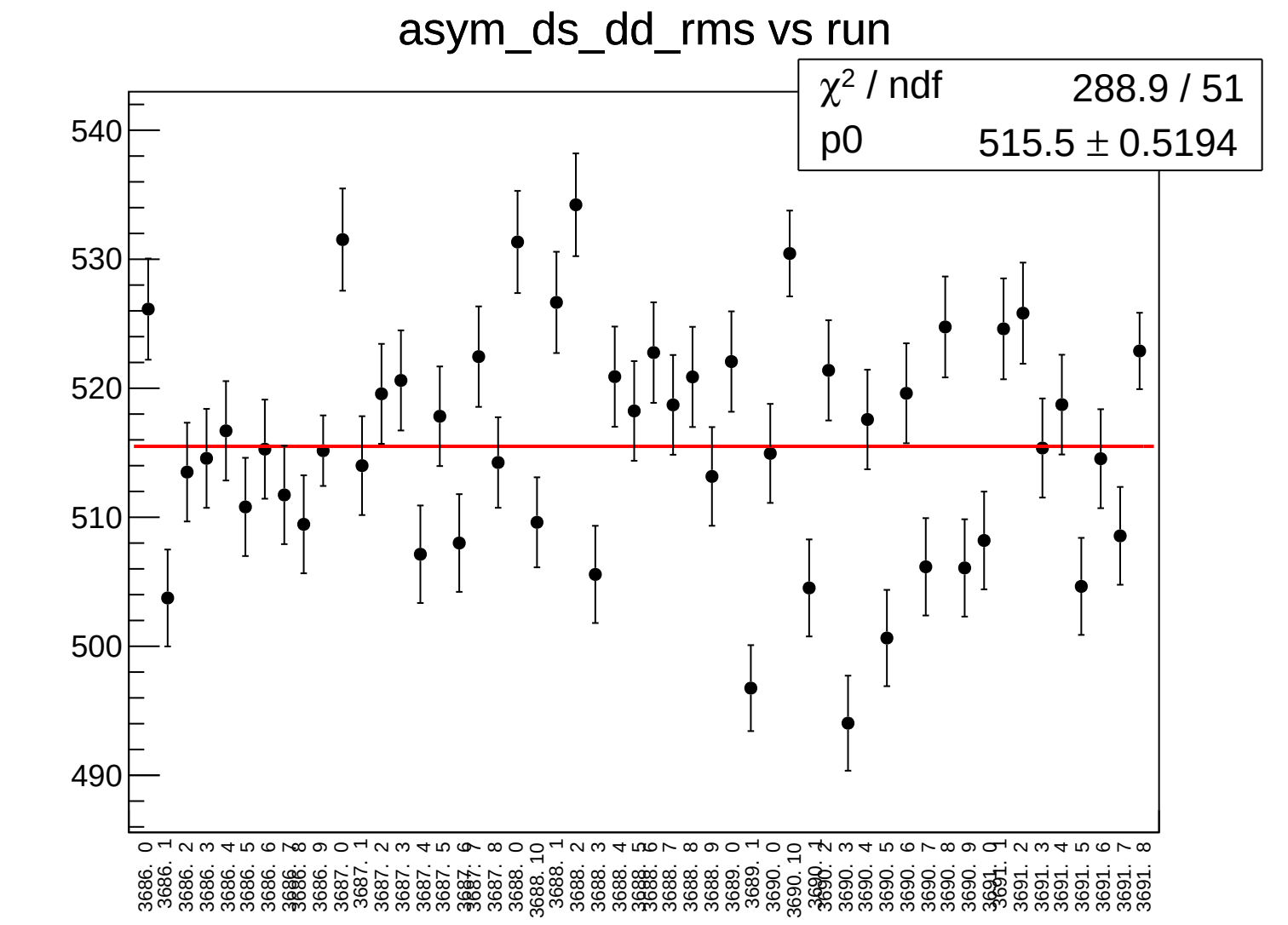
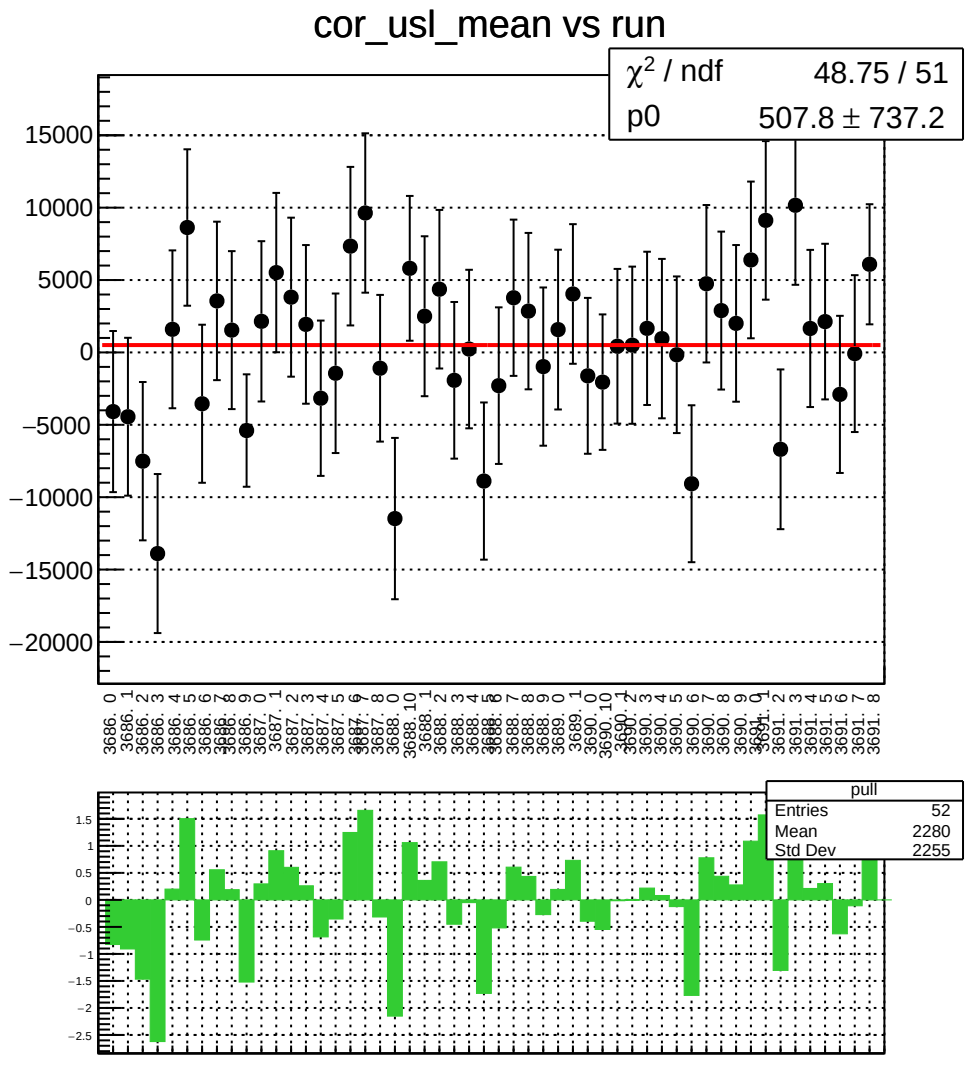
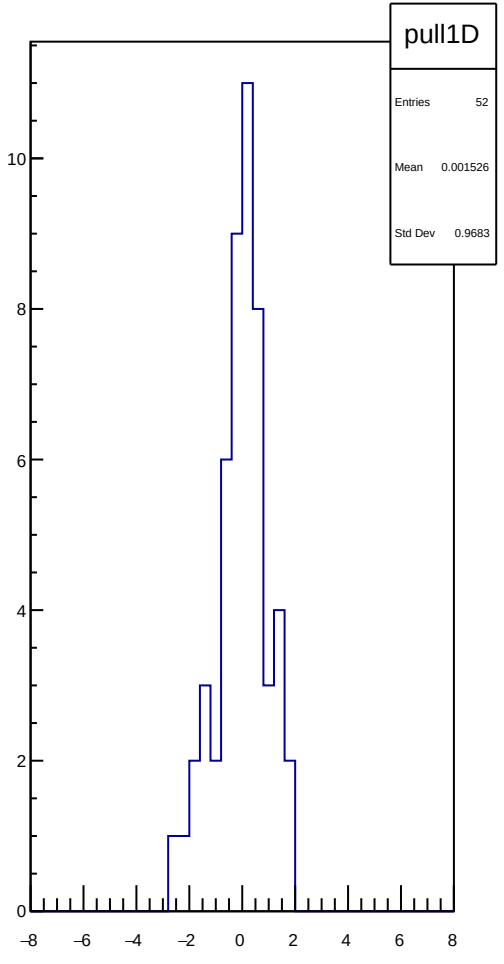
3691. 7
3691. 8

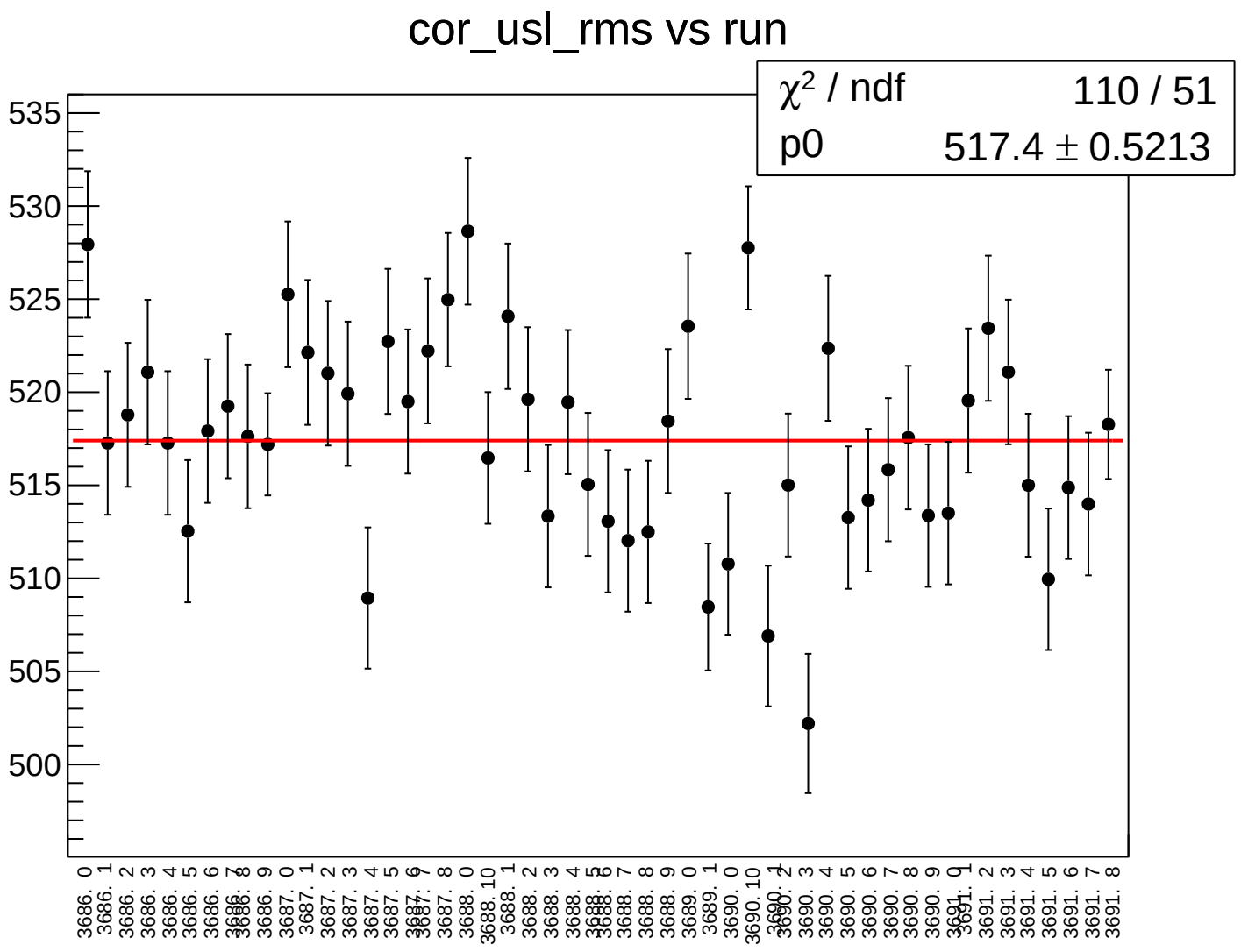

asym_ds_dd_mean vs run
χ² / ndf 36.25 / 51
p0 889.5 ± 734.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 52
Mean 613.3
Std Dev 587.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 52
Mean 0.003166
Std Dev 0.8349
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_dd_rms vs run
χ^2 / ndf 288.9 / 51
p0 515.5 ± 0.5194
540
530
520
510
500
490
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


cor_usl_mean vs run
χ² / ndf 48.75 / 51
p0 507.8 ± 737.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 52
Mean 2280
Std Dev 2255
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 52
Mean 0.001526
Std Dev 0.9683
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_usl_rms vs run
χ² / ndf 110 / 51
p0 517.4 ± 0.5213
535
530
525
520
515
510
505
500
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
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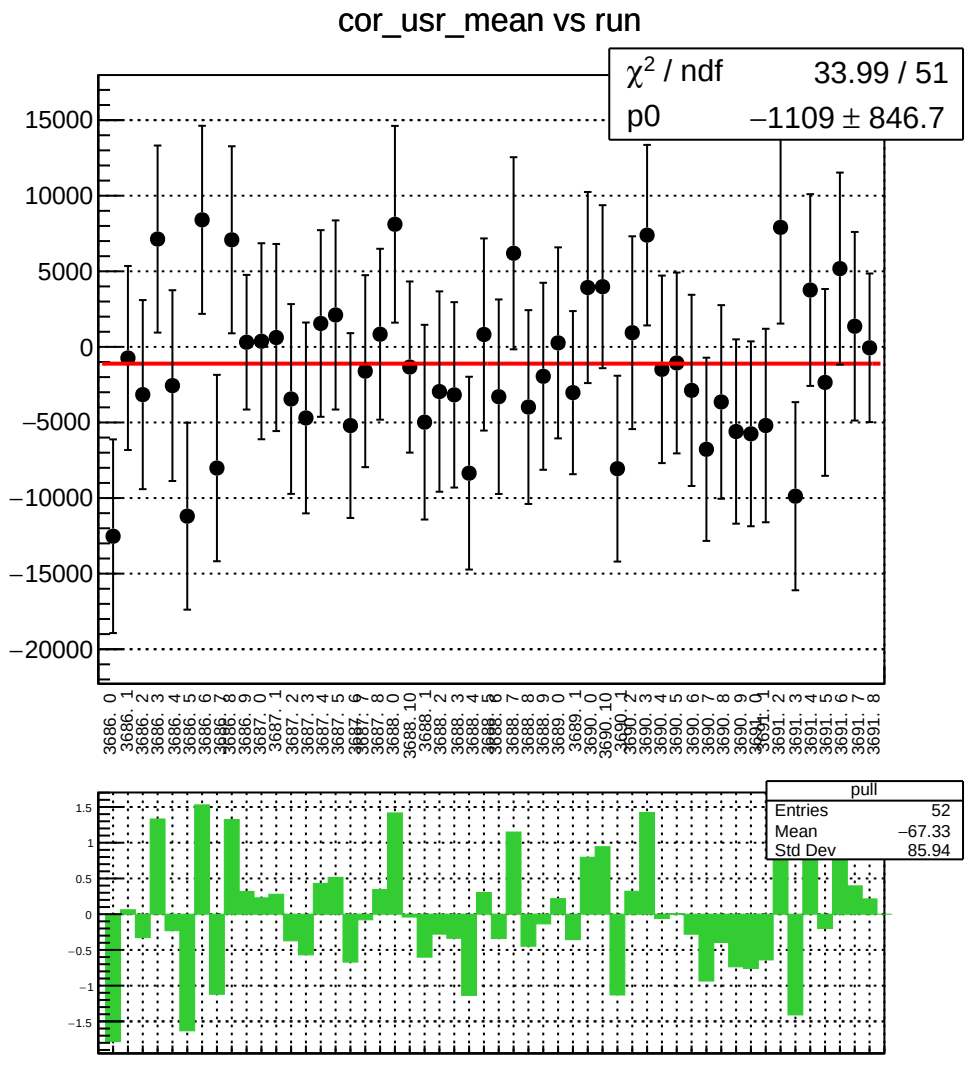
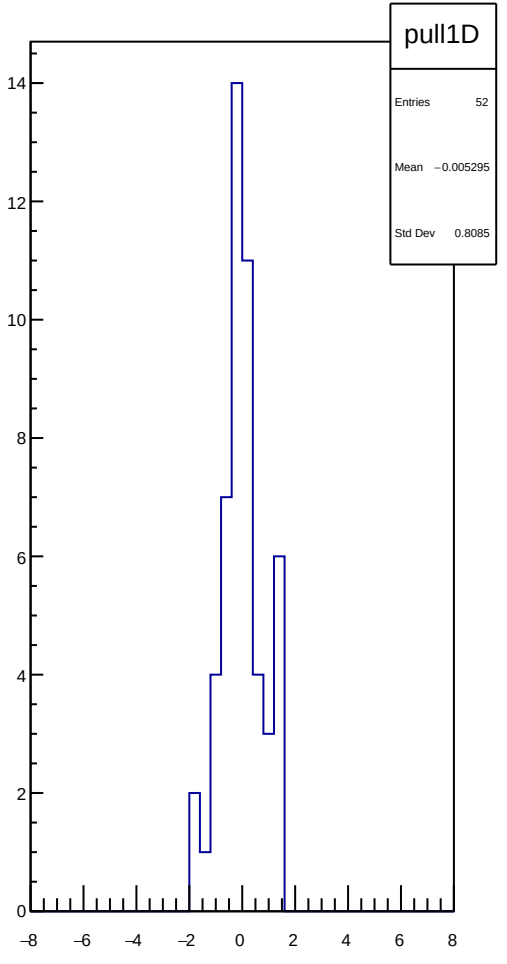
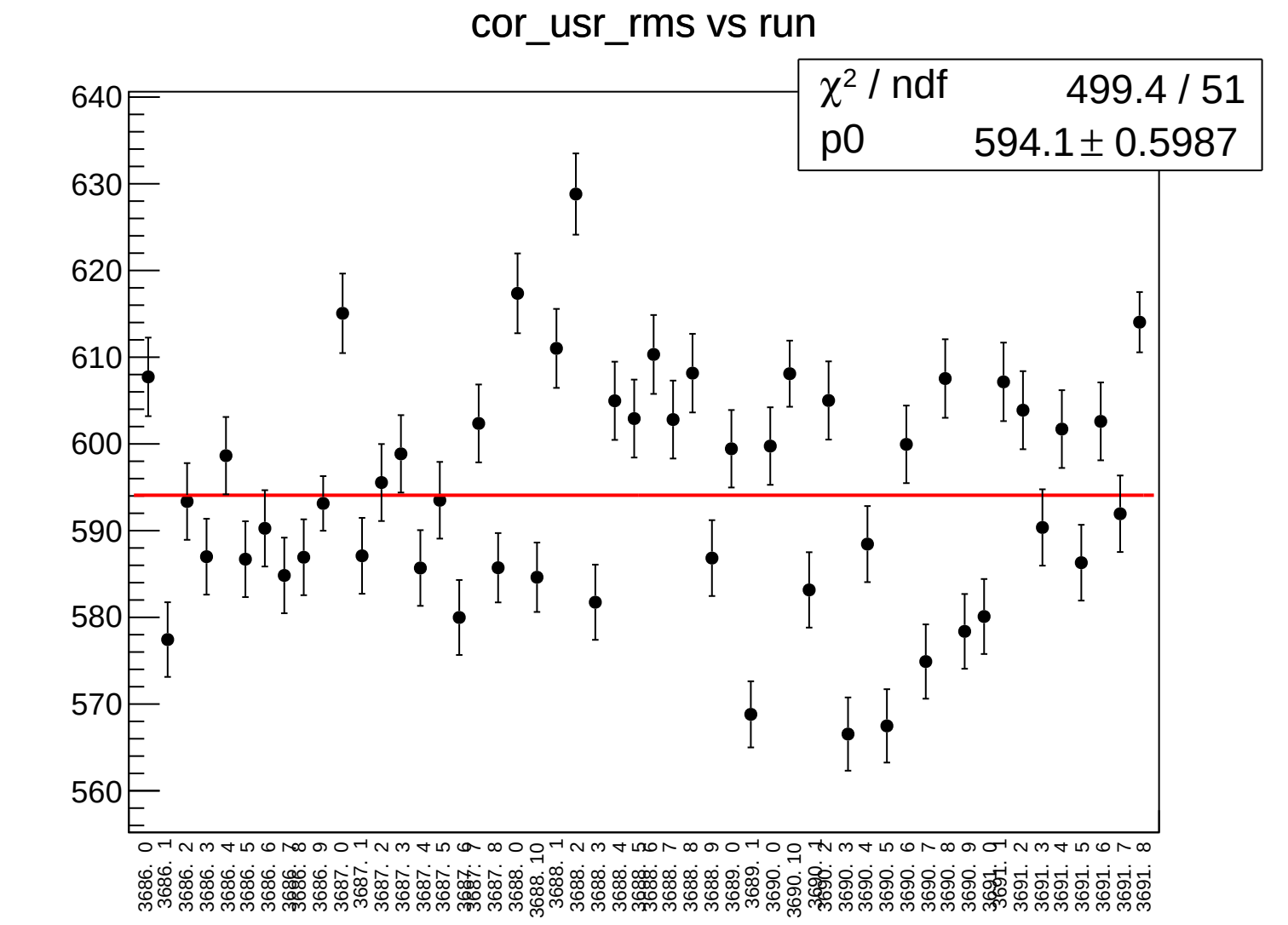

cor_usr_mean vs run
χ² / ndf 33.99 / 51
p0 −1109 ± 846.7
pull
Entries 52
Mean −67.33
Std Dev 85.94


pull1D
Entries 52
Mean −0.005295
Std Dev 0.8085


cor_usr_rms vs run
χ² / ndf 499.4 / 51
p0 594.1 ± 0.5987
640
630
620
610
600
590
580
570
560
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
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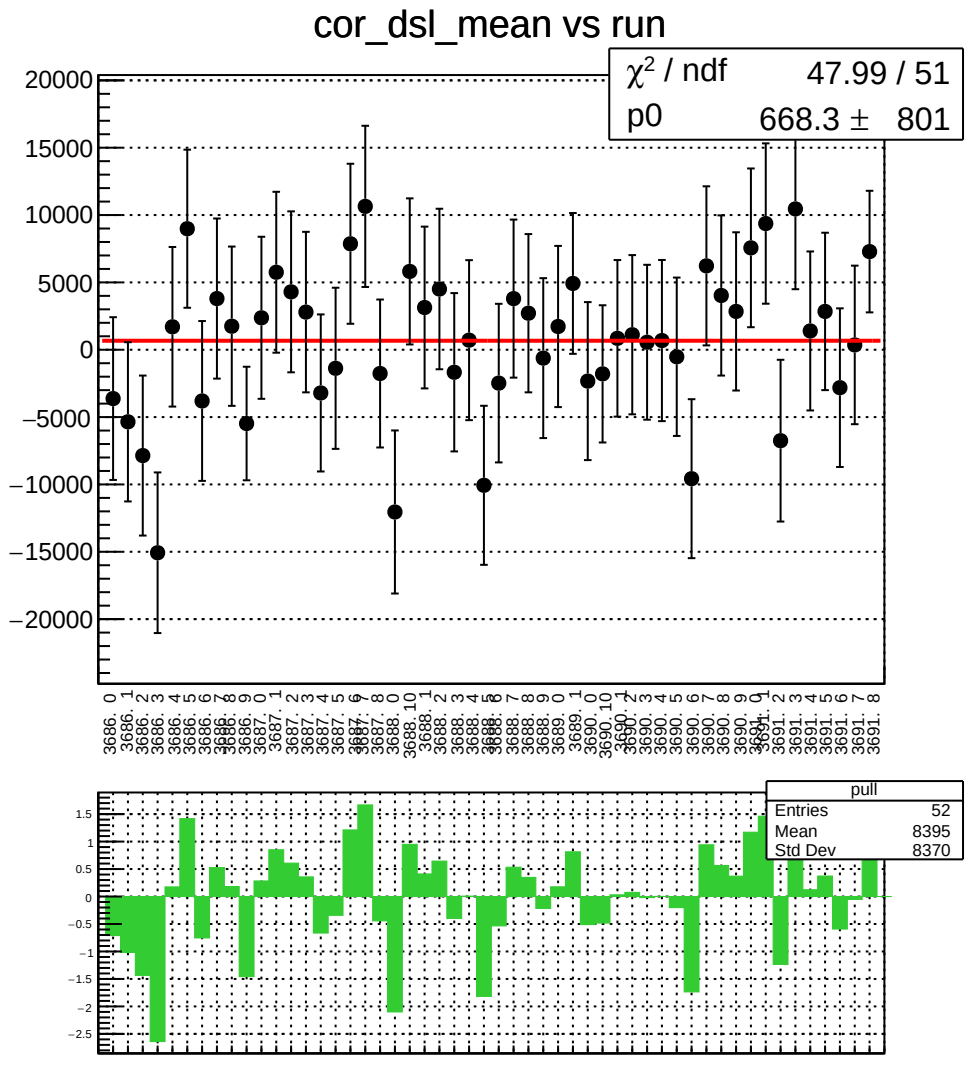
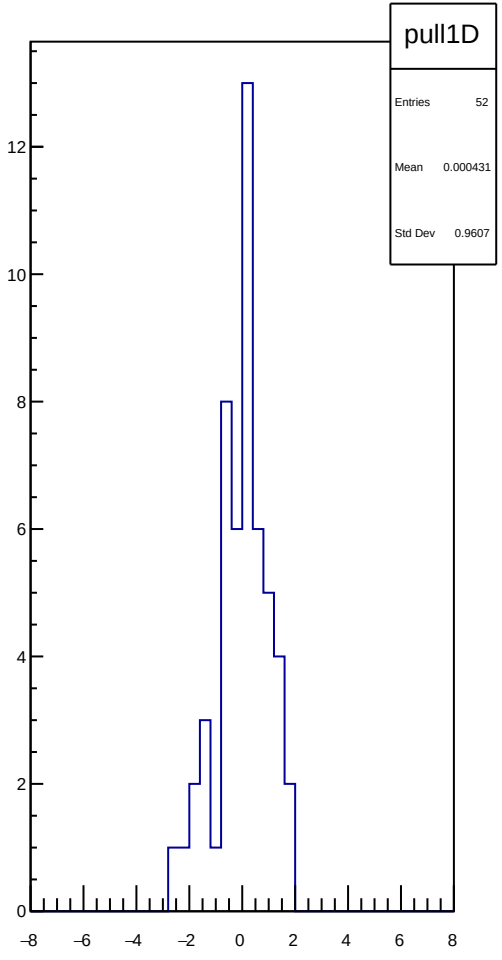
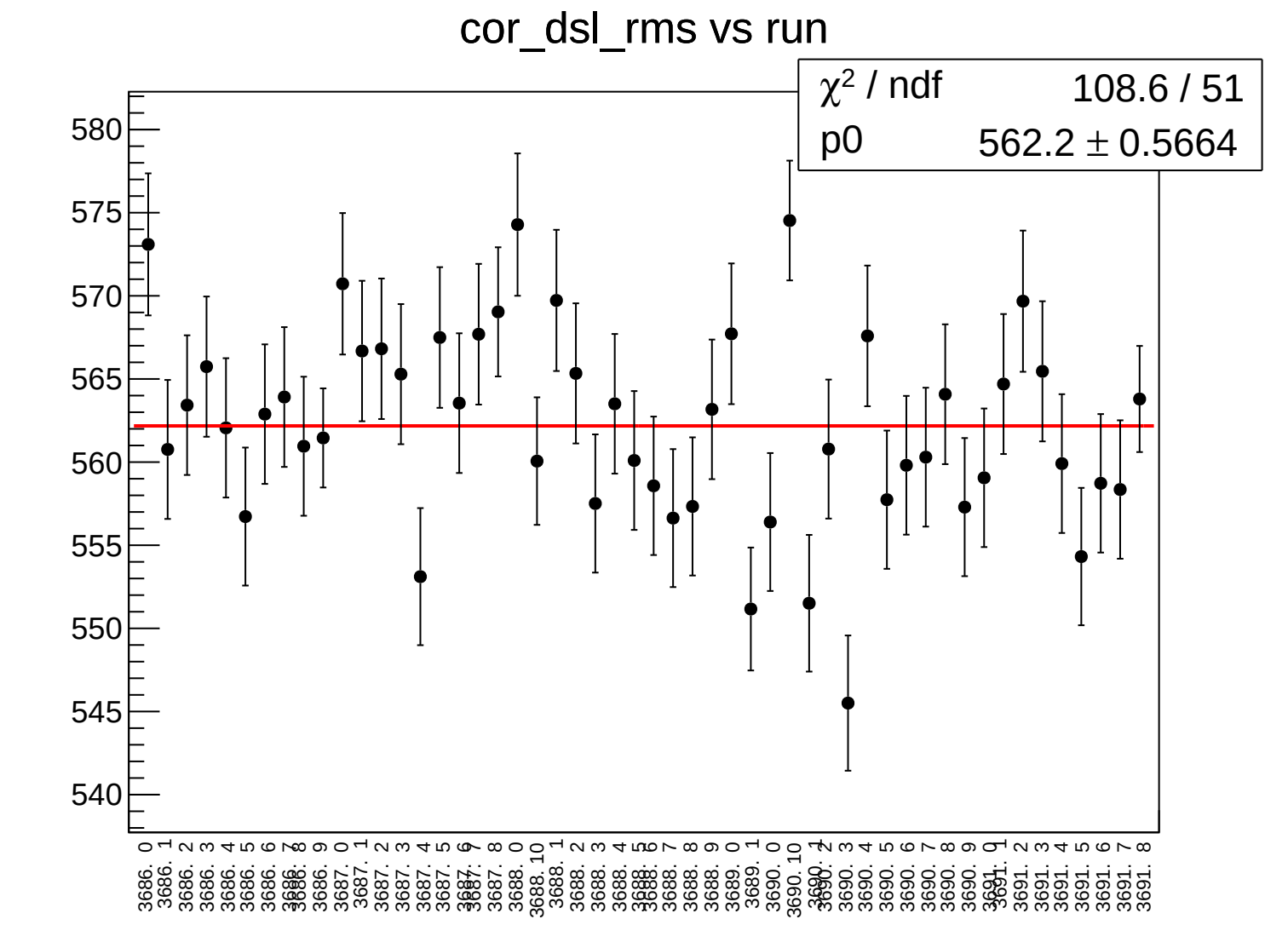

cor_dsl_mean vs run
χ² / ndf 47.99 / 51
p0 668.3 ± 801
pull
Entries 52
Mean 8395
Std Dev 8370


pull1D
Entries 52
Mean 0.000431
Std Dev 0.9607


cor_dsl_rms vs run
χ^2 / ndf 108.6 / 51
p0 562.2 ± 0.5664
580
575
570
565
560
555
550
545
540
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
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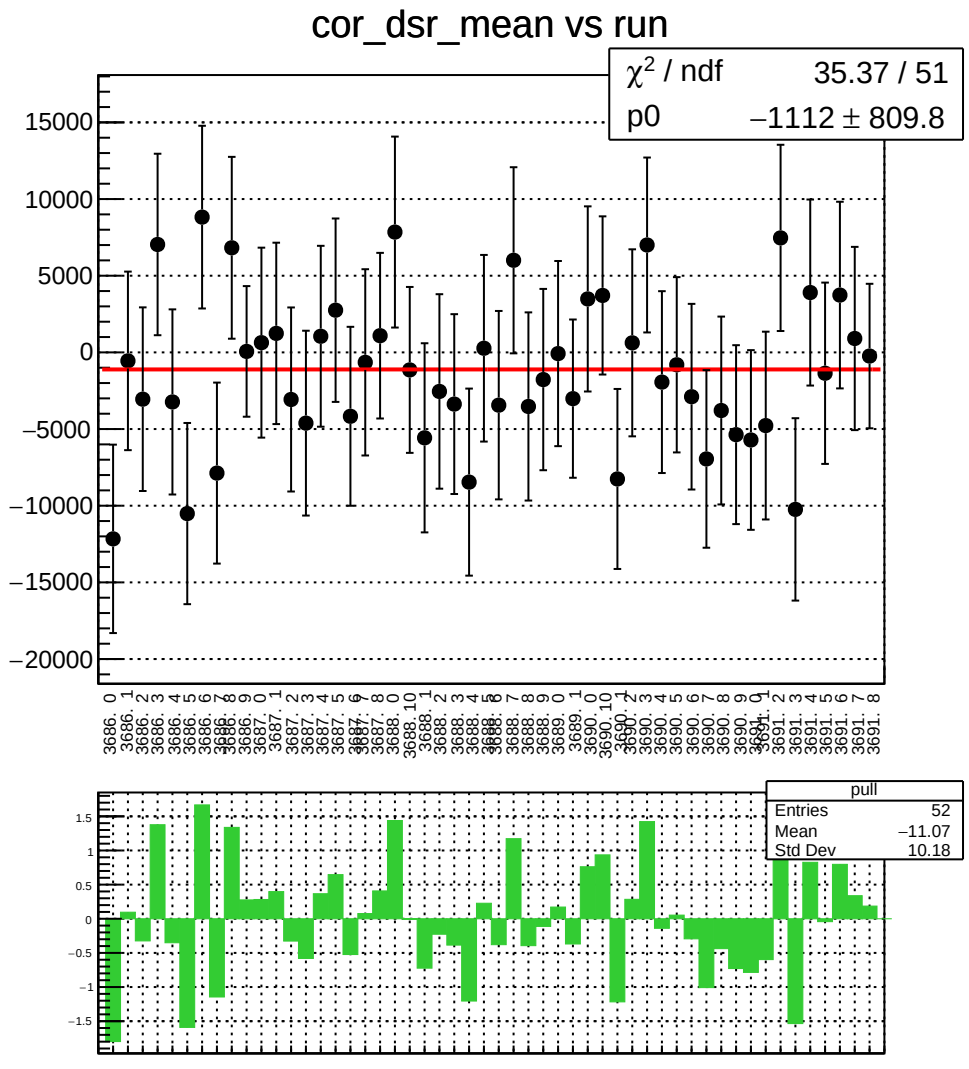
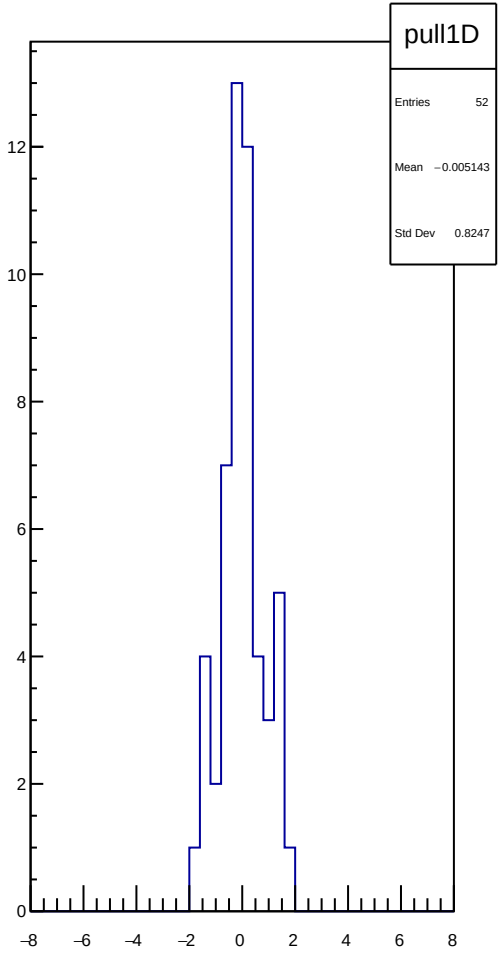
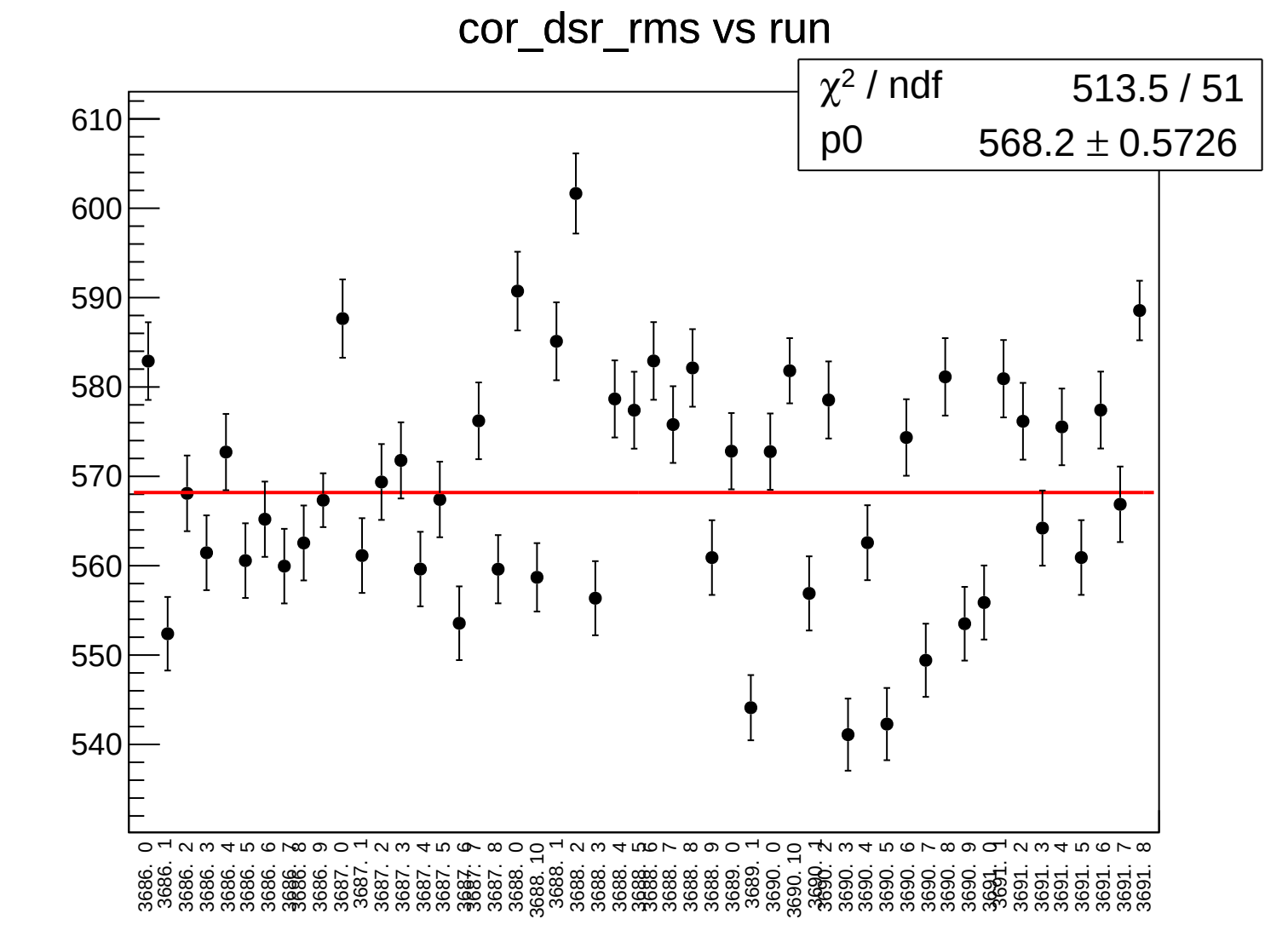
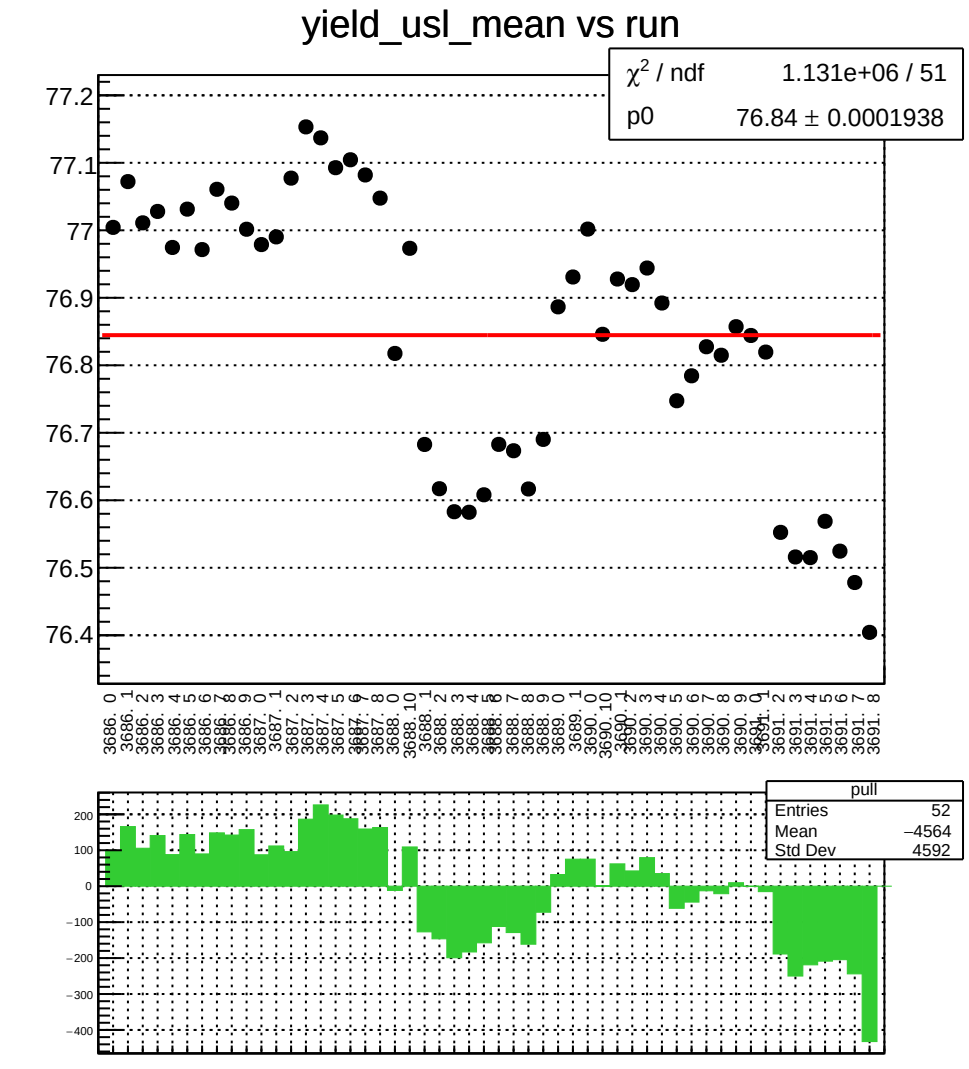
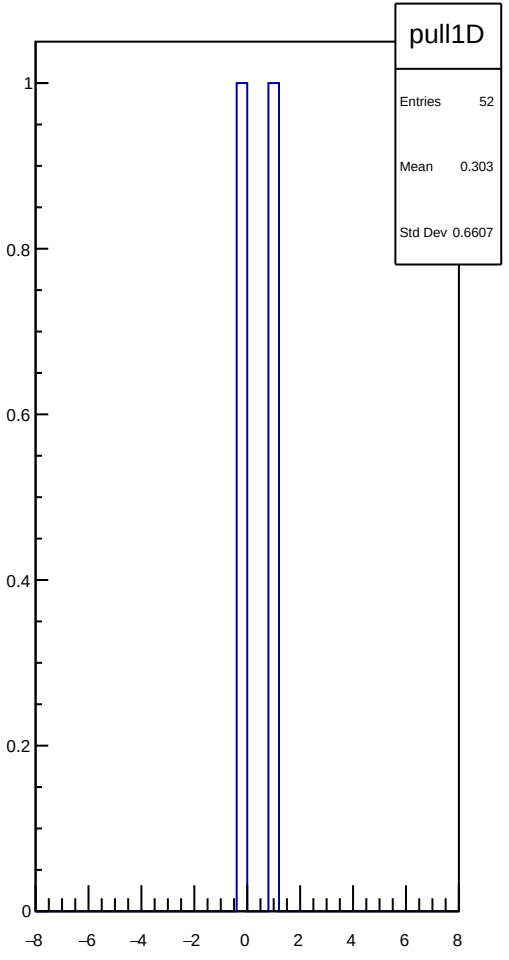
3691. 7
3691. 8

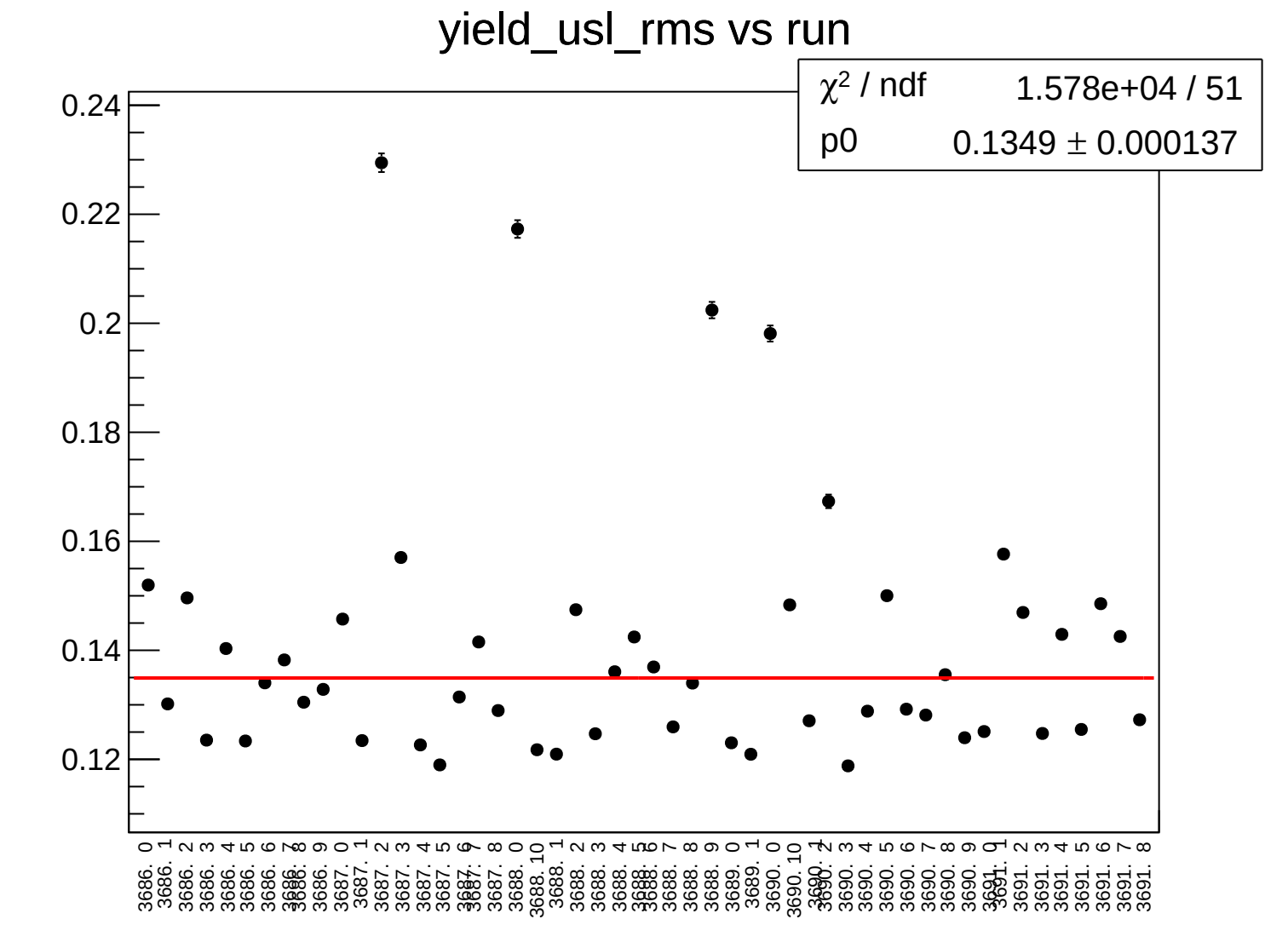

cor_dsr_mean vs run
χ² / ndf 35.37 / 51
p0 −1112 ± 809.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 52
Mean −11.07
Std Dev 10.18
1.5
1
0.5
0
−0.5
−1
−1.5

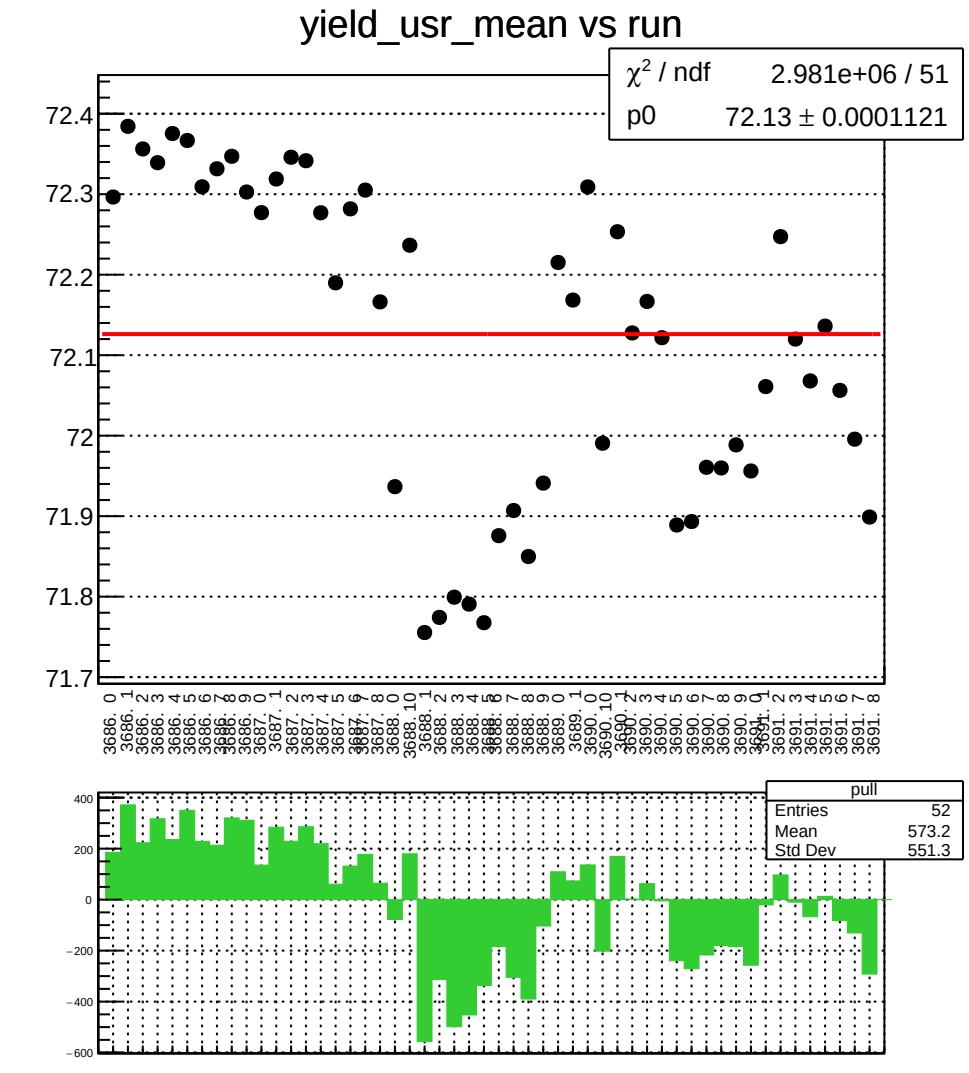

pull1D
Entries 52
Mean −0.005143
Std Dev 0.8247
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

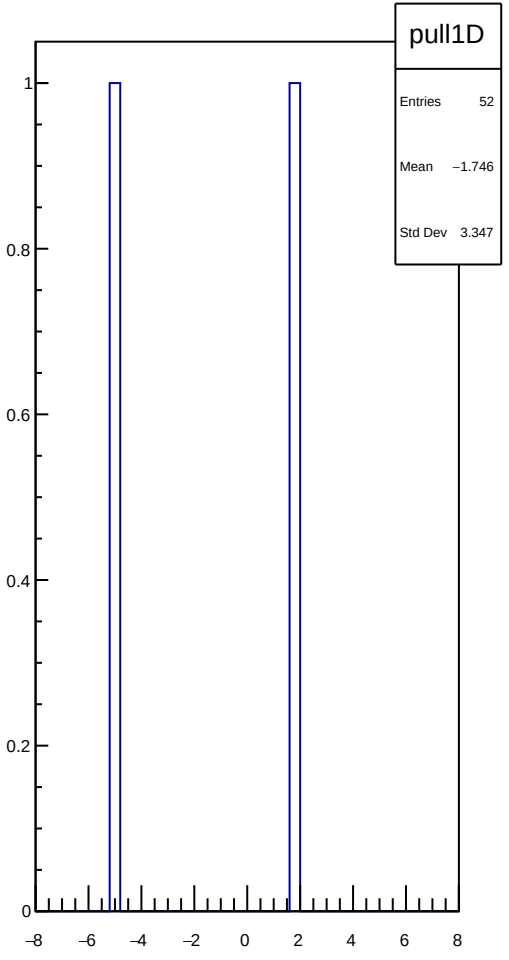

cor_dsr_rms vs run
χ² / ndf 513.5 / 51
p0 568.2 ± 0.5726
610
600
590
580
570
560
550
540
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

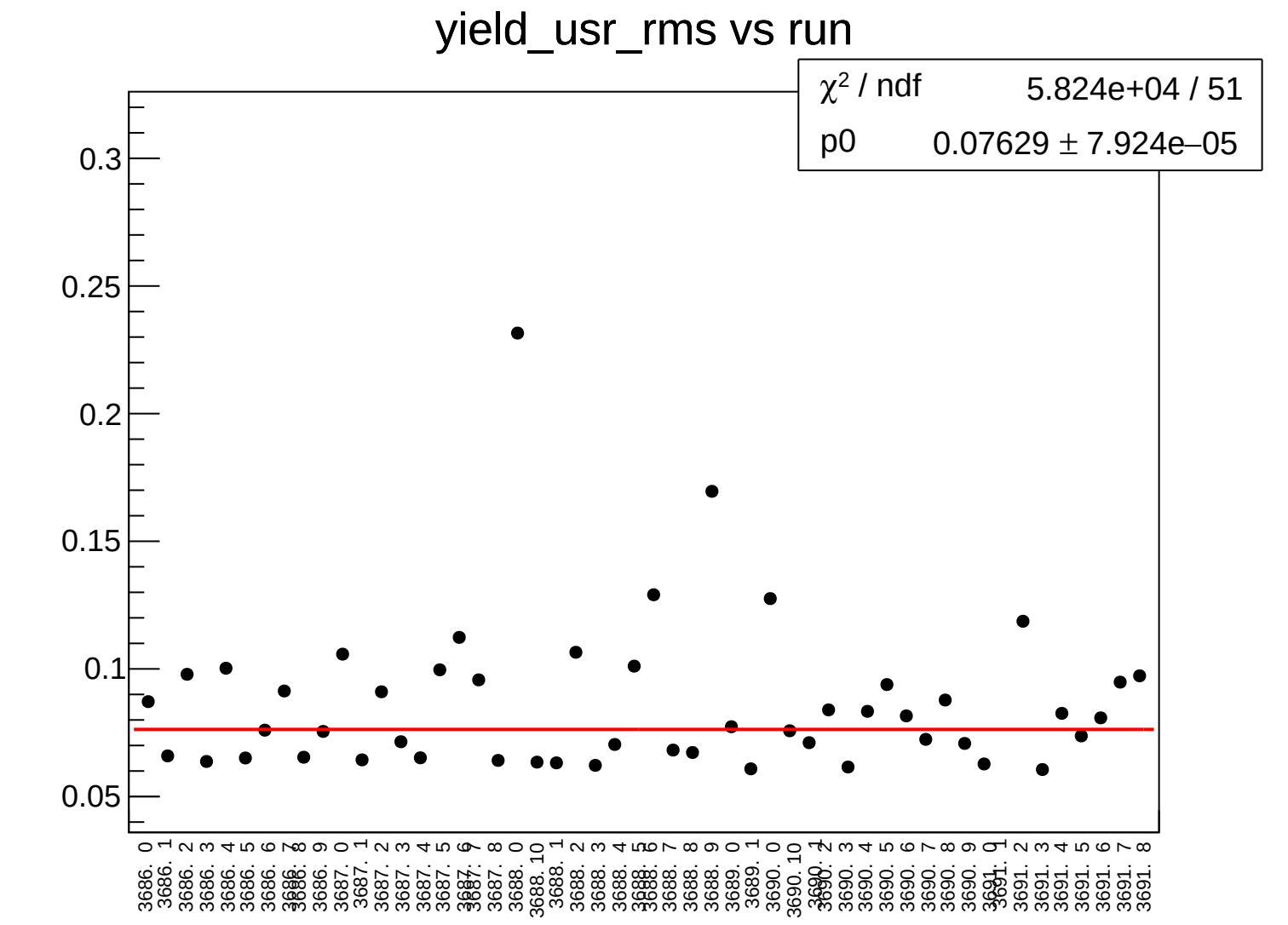

yield_usl_mean vs run
χ² / ndf 1.131e+06 / 51
p0 76.84 ± 0.0001938
77.2
77.1
77
76.9
76.8
76.7
76.6
76.5
76.4
pull
Entries 52
Mean −4564
Std Dev 4592
200
100
0
−100
−200
−300
−400

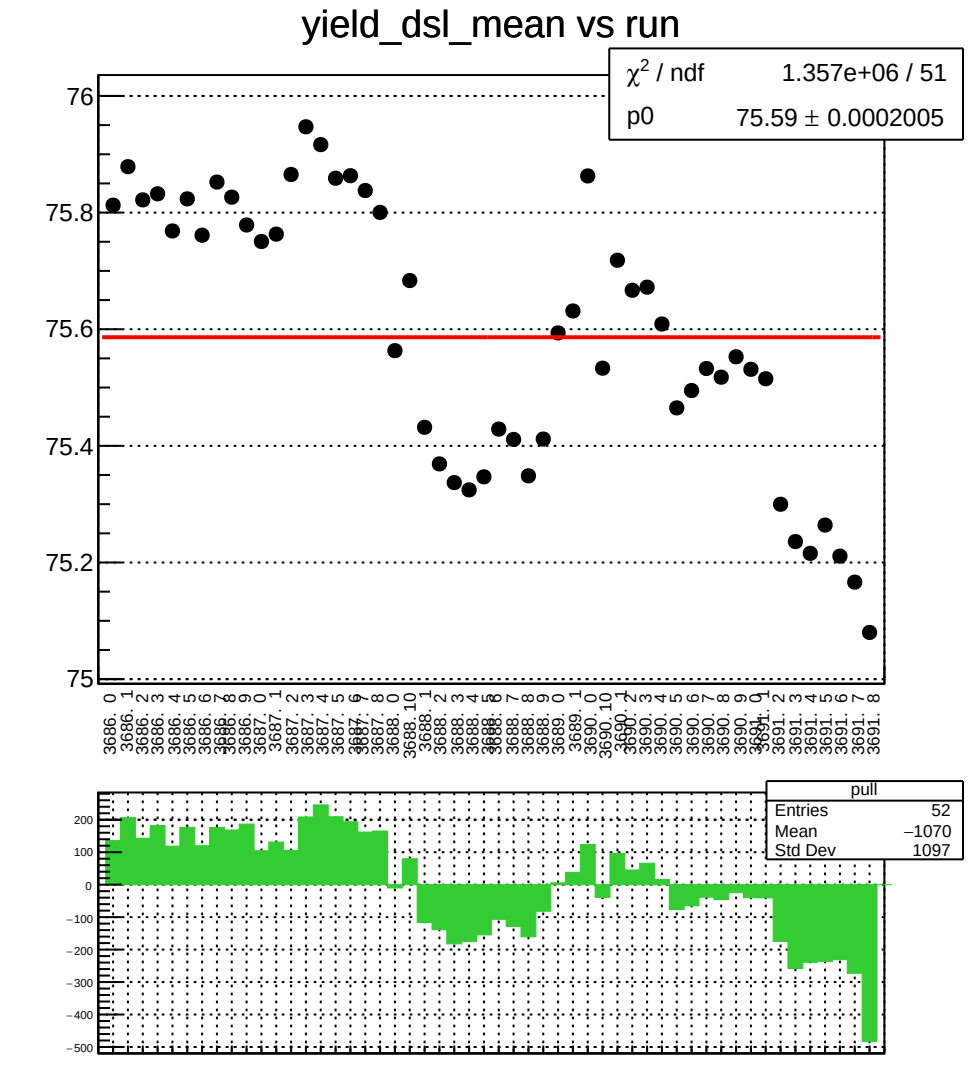

pull1D
Entries 52
Mean 0.303
Std Dev 0.6607
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

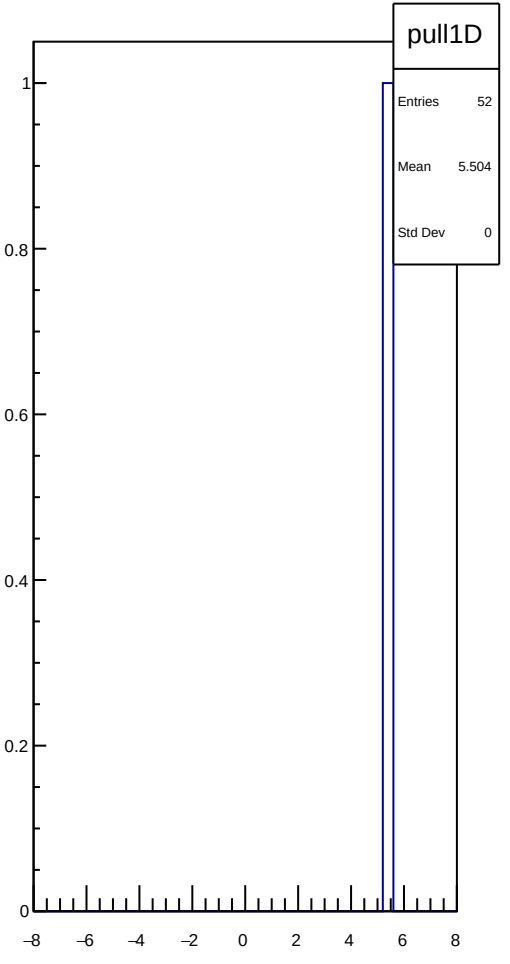

yield_usl_rms vs run
χ² / ndf 1.578e+04 / 51
p0 0.1349 ± 0.000137
0.24
0.22
0.2
0.18
0.16
0.14
0.12
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

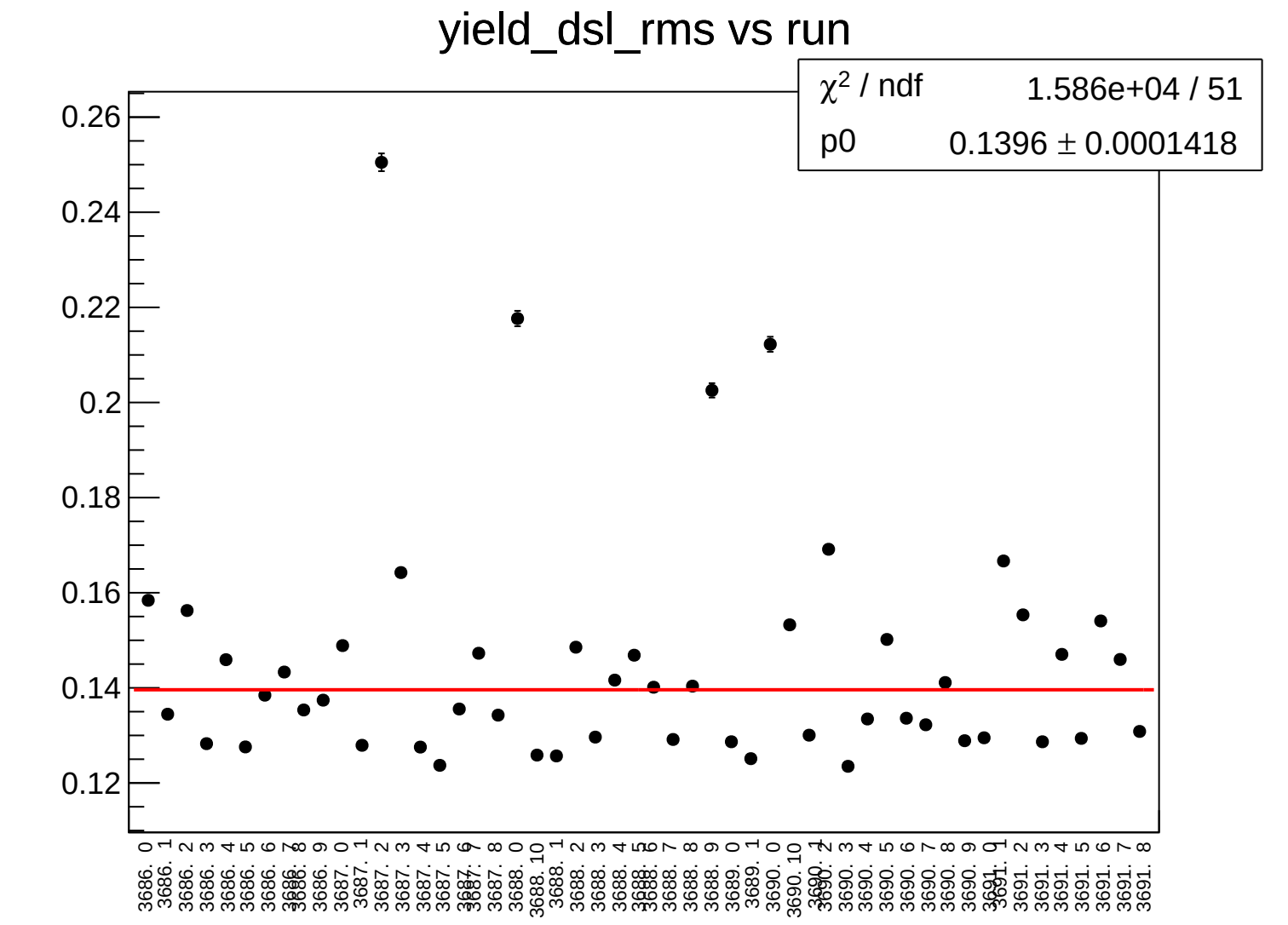

yield_usr_mean vs run
χ^2 / ndf 2.981e+06 / 51
p0 72.13 ± 0.0001121
72.4
72.3
72.2
72.1
72
71.9
71.8
71.7
pull
Entries 52
Mean 573.2
Std Dev 551.3
400
200
0
−200
−400
−600

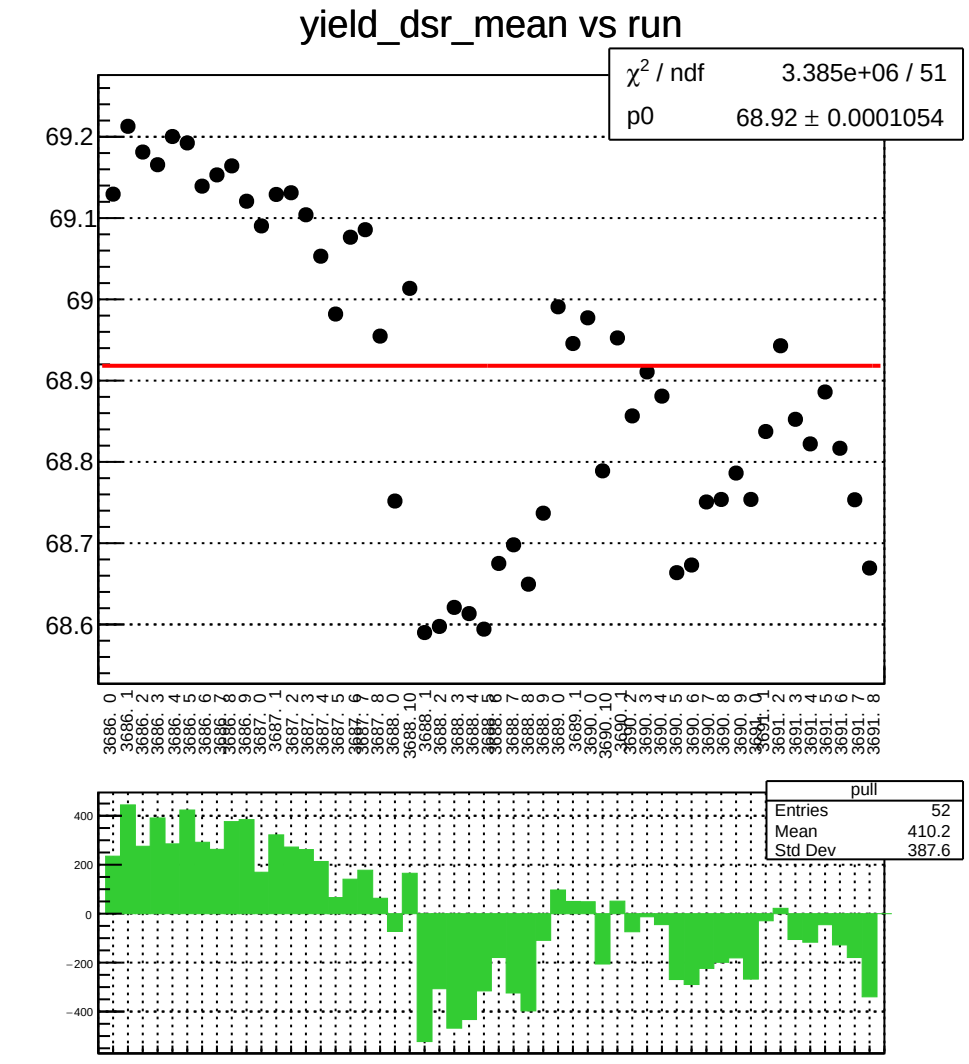

pull1D
Entries 52
Mean −1.746
Std Dev 3.347
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

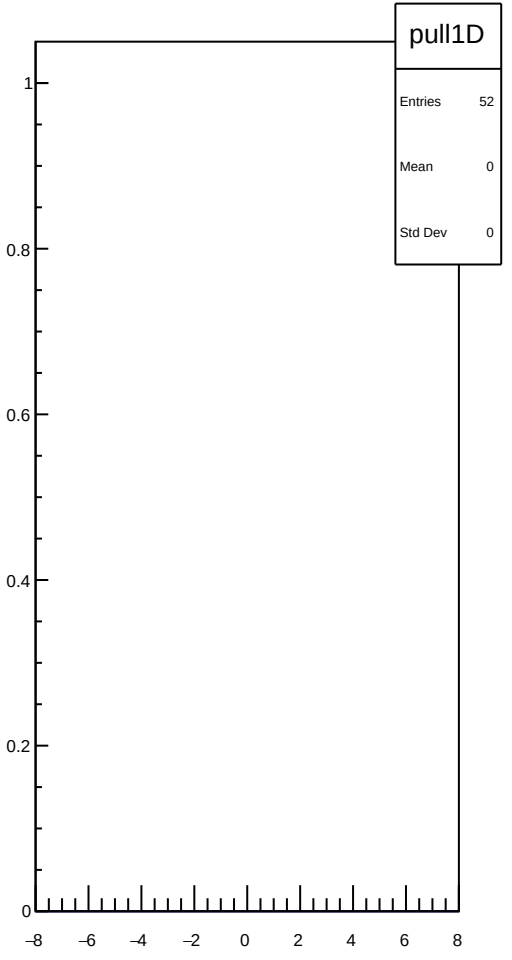

yield_usr_rms vs run
χ² / ndf 5.824e+04 / 51
p0 0.07629 ± 7.924e−05
0.3
0.25
0.2
0.15
0.1
0.05

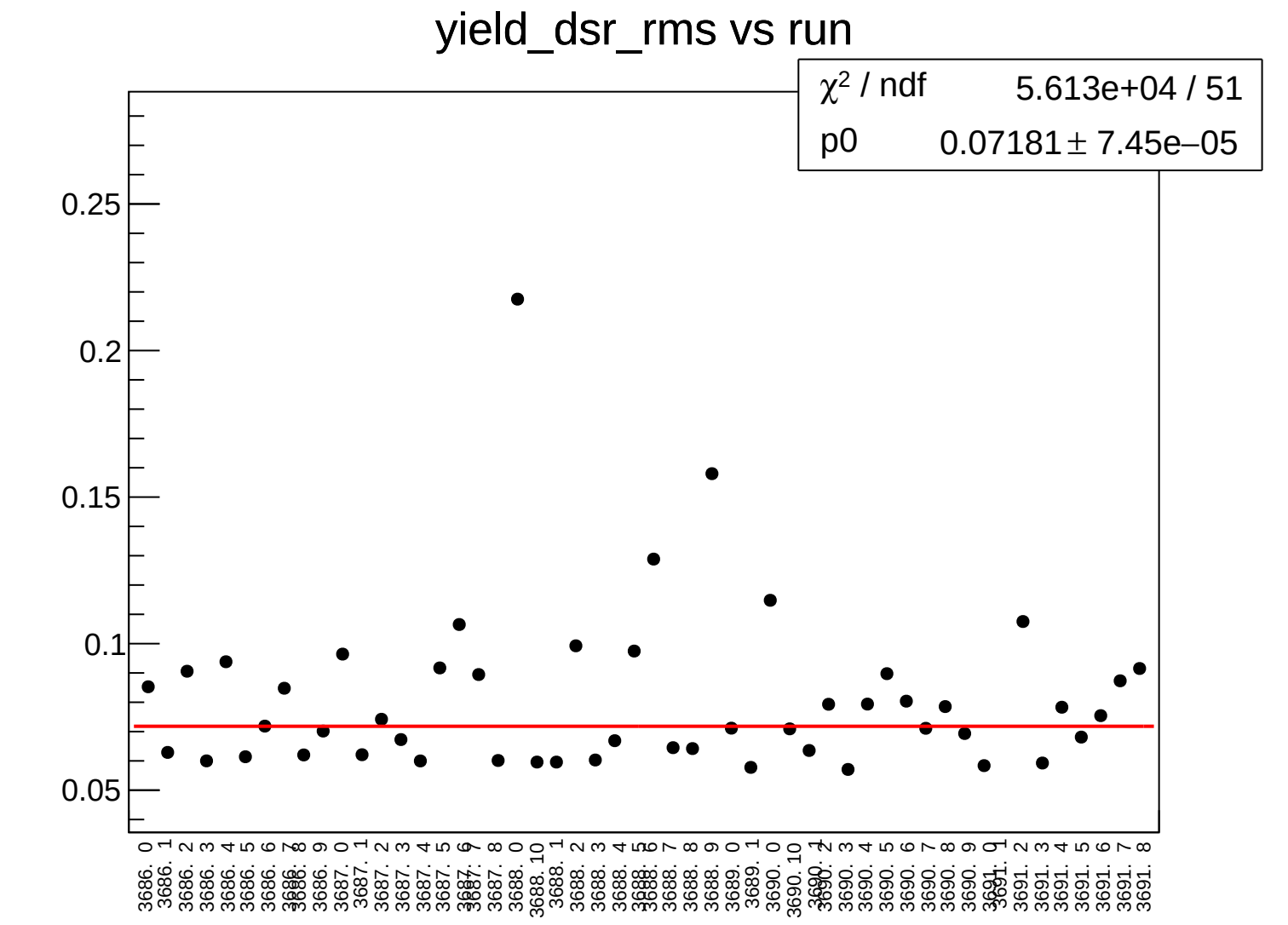

yield_dsl_mean vs run
χ² / ndf 1.357e+06 / 51
p0 75.59 ± 0.0002005
76
75.8
75.6
75.4
75.2
75
pull
Entries 52
Mean −1070
Std Dev 1097
200
100
0
−100
−200
−300
−400
−500

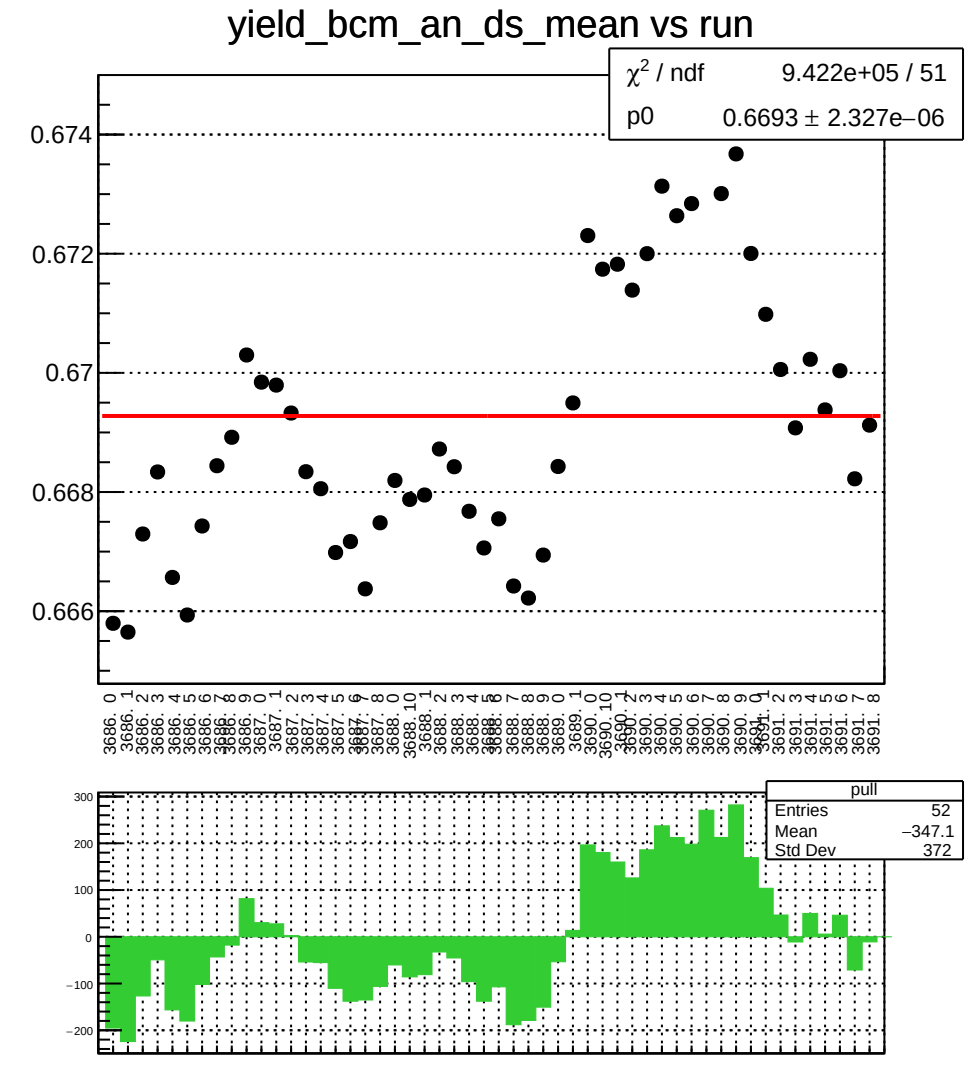

pull1D
Entries 52
Mean 5.504
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

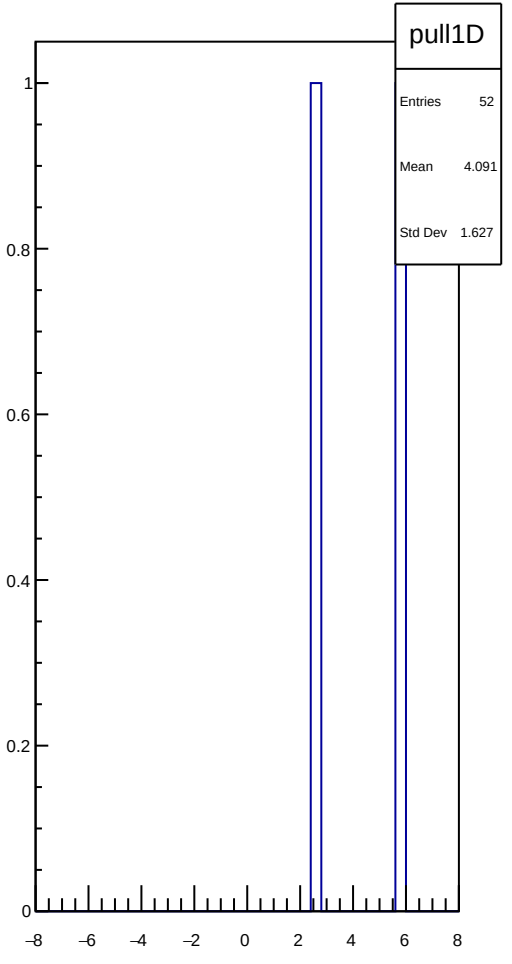

yield_dsl_rms vs run
χ² / ndf 1.586e+04 / 51
p0 0.1396 ± 0.0001418
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

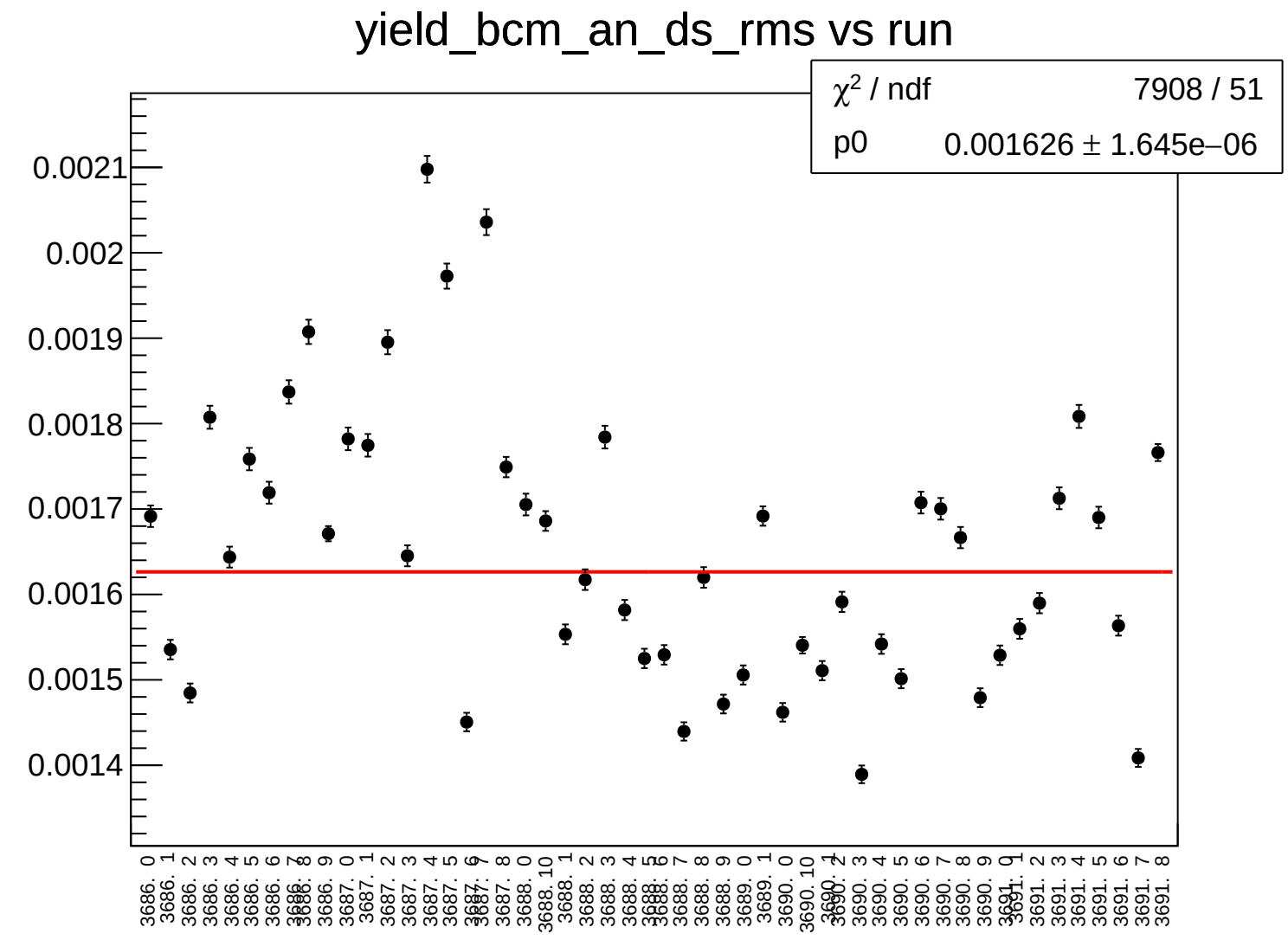

yield_dsr_mean vs run
χ² / ndf 3.385e+06 / 51
p0 68.92 ± 0.0001054
69.2
69.1
69
68.9
68.8
68.7
68.6
pull
Entries 52
Mean 410.2
Std Dev 387.6
400
200
0
−200
−400

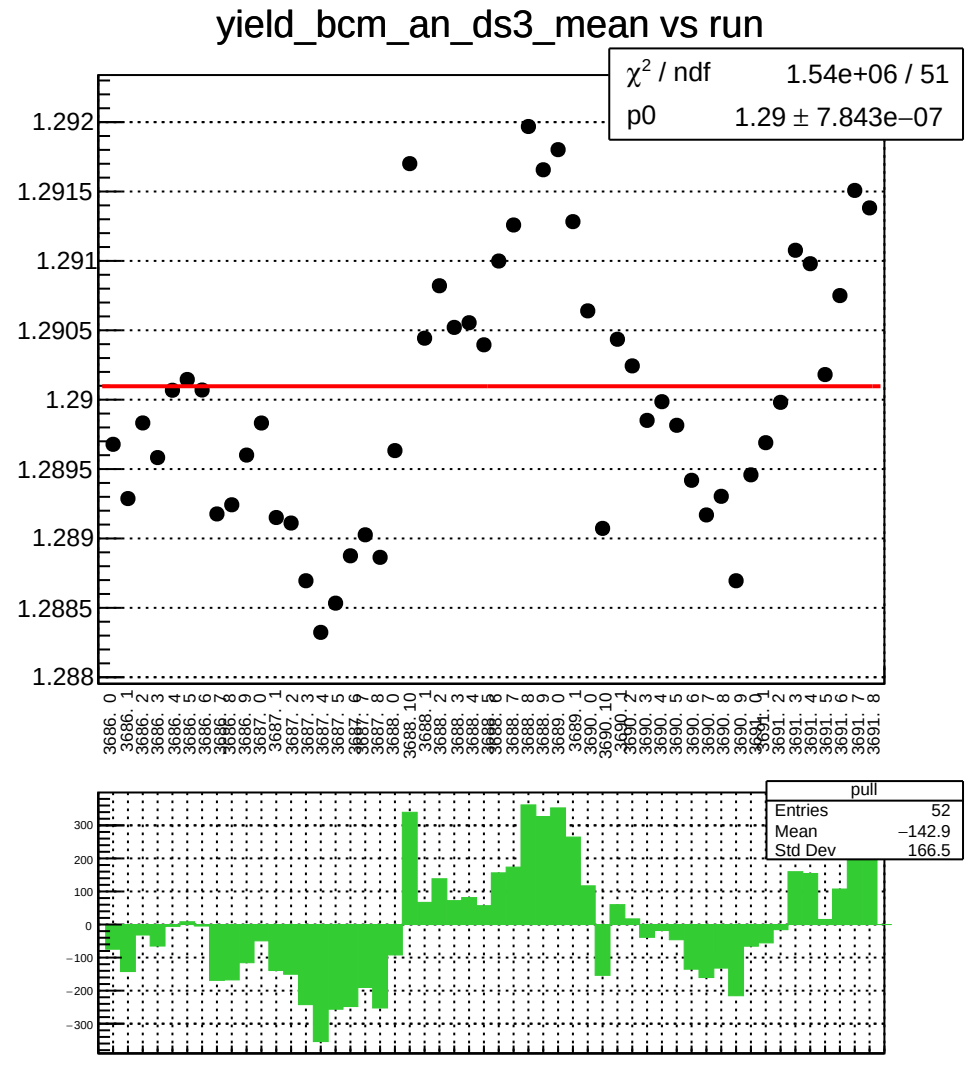

pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

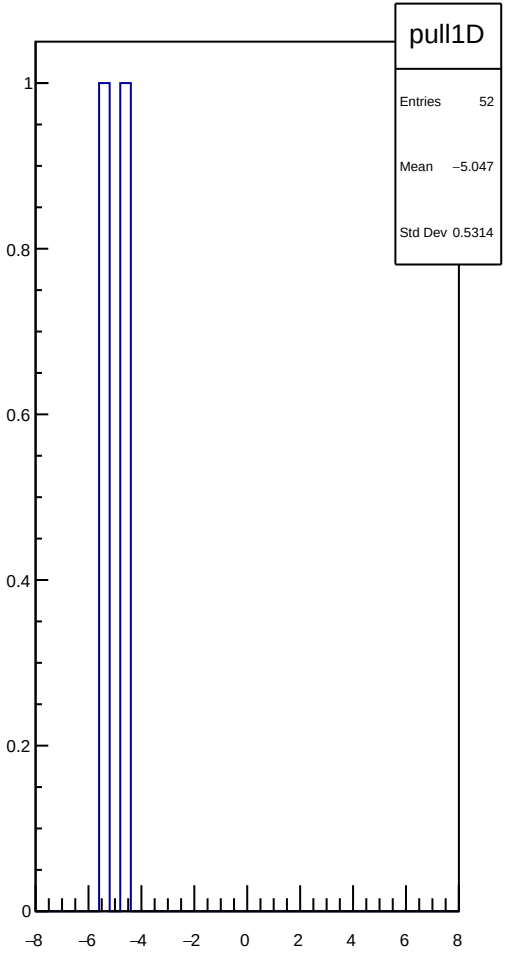

yield_dsr_rms vs run
χ² / ndf 5.613e+04 / 51
p0 0.07181 ± 7.45e−05
0.25
0.2
0.15
0.1
0.05
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

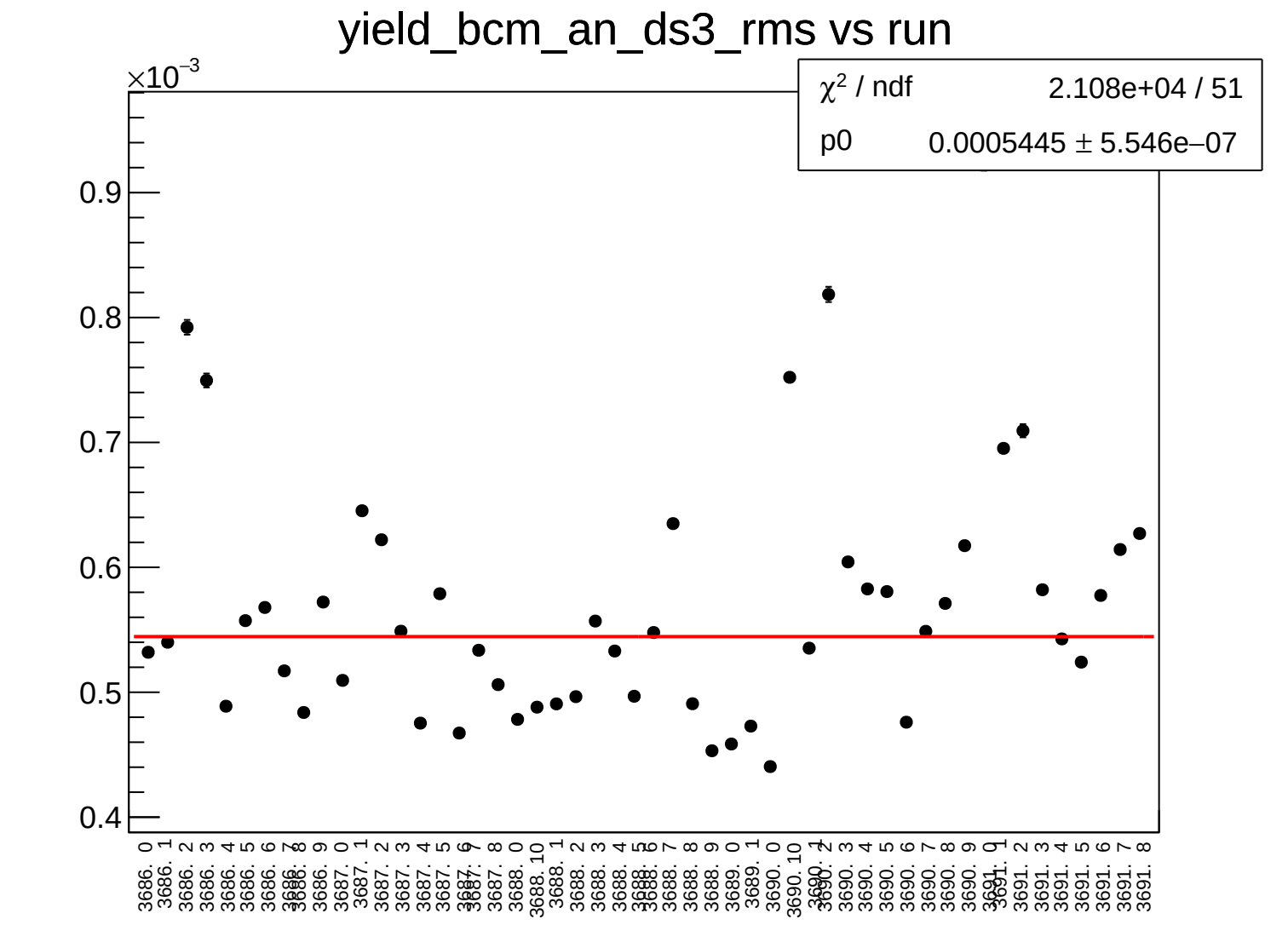

yield_bcm_an_ds_mean vs run
χ² / ndf 9.422e+05 / 51
p0 0.6693 ± 2.327e−06
0.674
0.672
0.67
0.668
0.666
pull
Entries 52
Mean −347.1
Std Dev 372
300
200
100
0
−100
−200

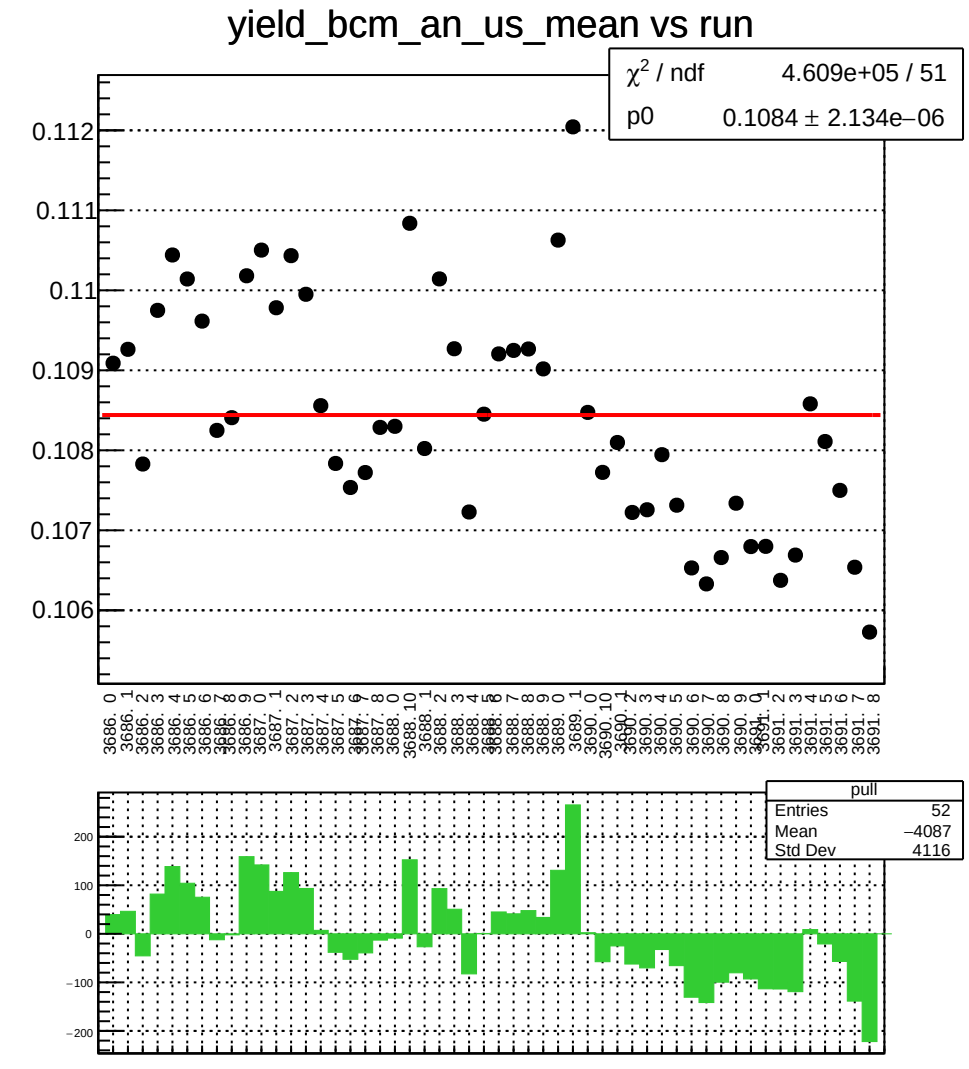

pull1D
Entries 52
Mean 4.091
Std Dev 1.627
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

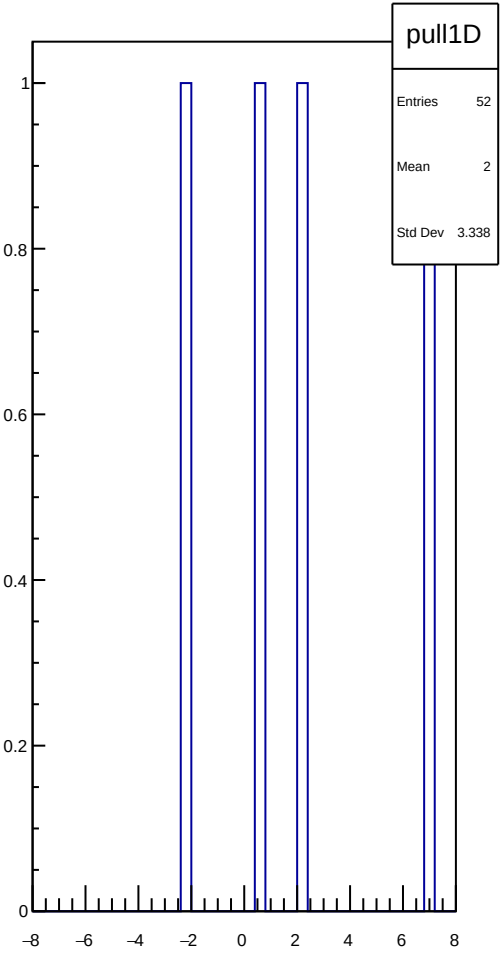

yield_bcm_an_ds_rms vs run
χ² / ndf 7908 / 51
p0 0.001626 ± 1.645e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

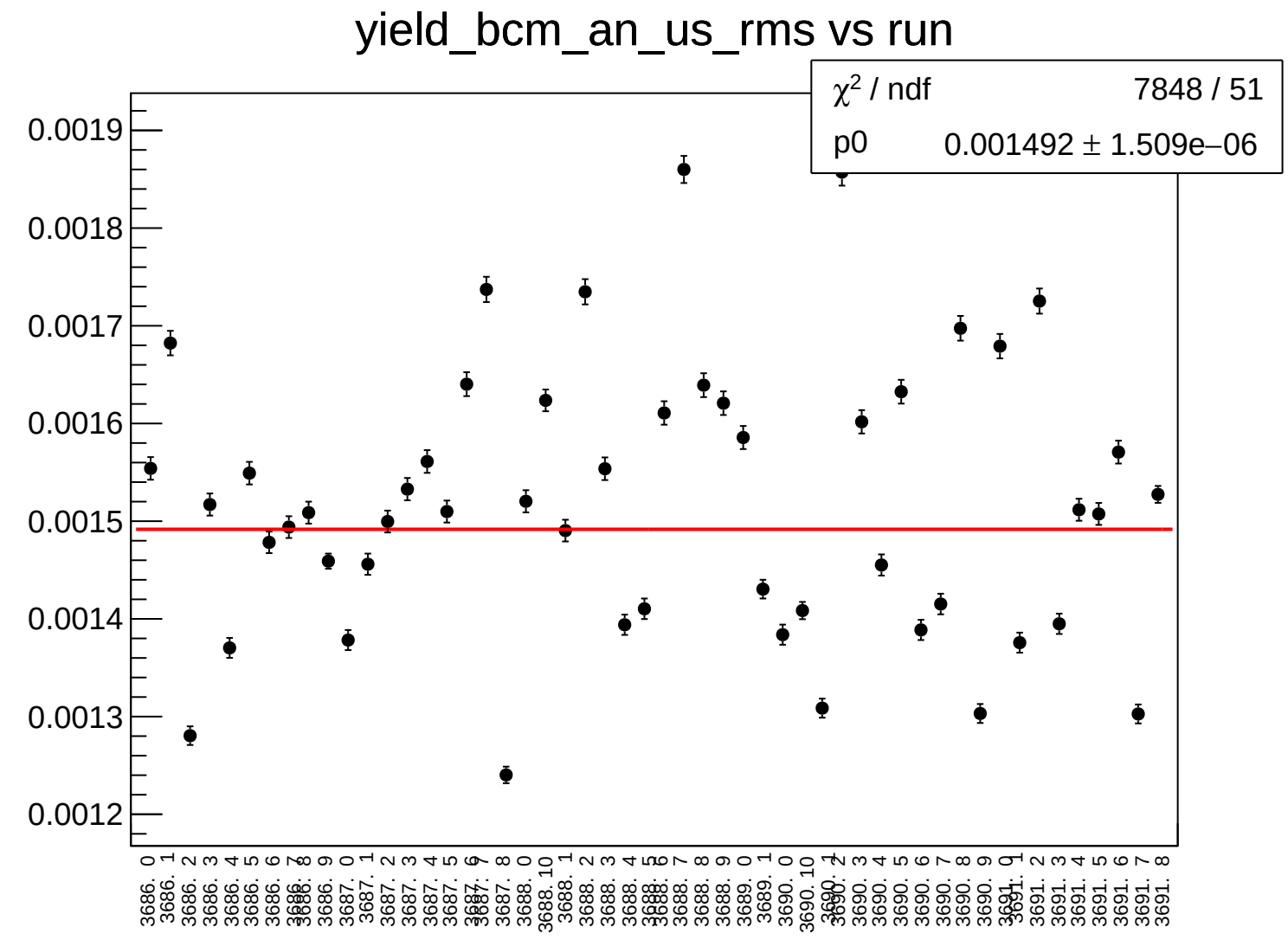

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.54e+06 / 51
p0 1.29 ± 7.843e−07
1.292
1.2915
1.291
1.2905
1.29
1.2895
1.289
1.2885
1.288
pull
Entries 52
Mean −142.9
Std Dev 166.5
300
200
100
0
−100
−200
−300


pull1D
Entries 52
Mean −5.047
Std Dev 0.5314
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_ds3_rms vs run
×10⁻³
χ² / ndf 2.108e+04 / 51
p0 0.0005445 ± 5.546e−07
0.9
0.8
0.7
0.6
0.5
0.4


yield_bcm_an_us_mean vs run
χ² / ndf 4.609e+05 / 51
p0 0.1084 ± 2.134e−06
0.112
0.111
0.11
0.109
0.108
0.107
0.106
pull
Entries 52
Mean −4087
Std Dev 4116
200
100
0
−100
−200


pull1D
Entries 52
Mean 2
Std Dev 3.338
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
χ² / ndf 7848 / 51
p0 0.001492 ± 1.509e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
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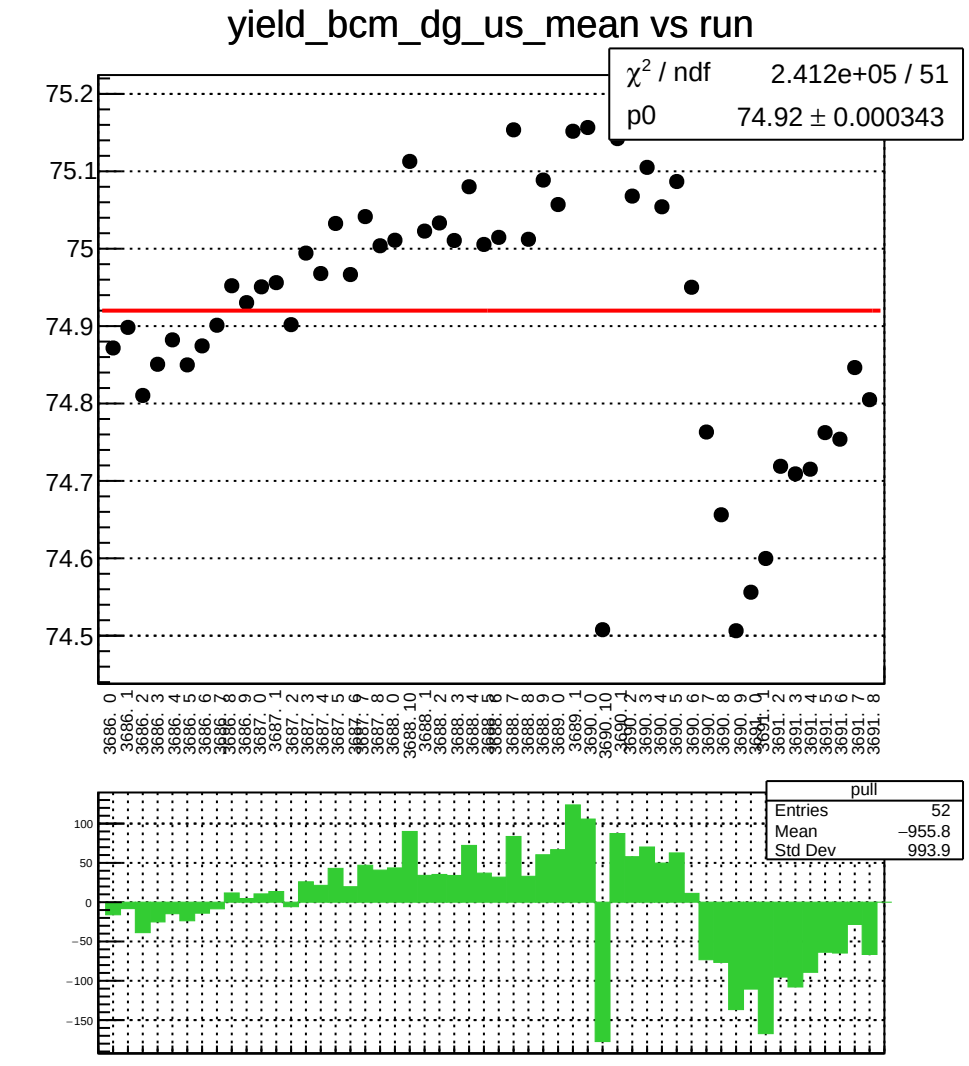
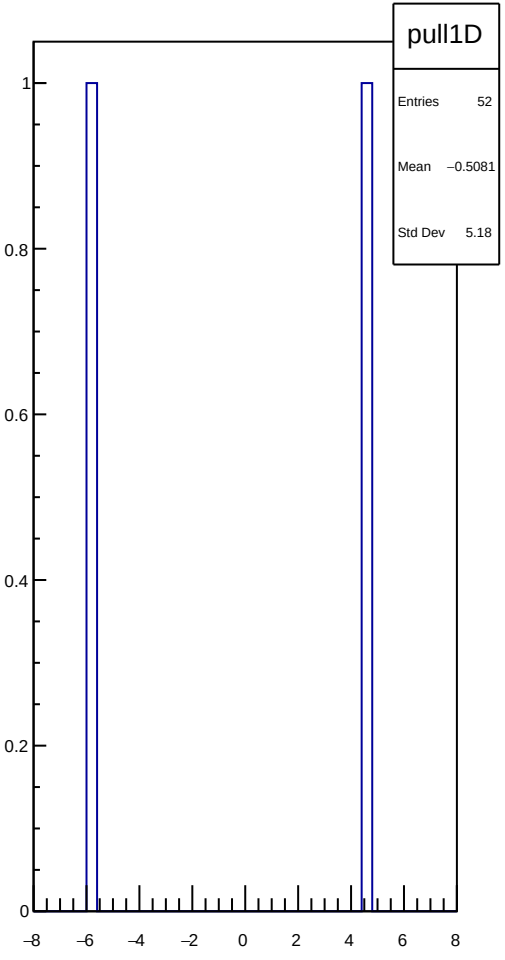
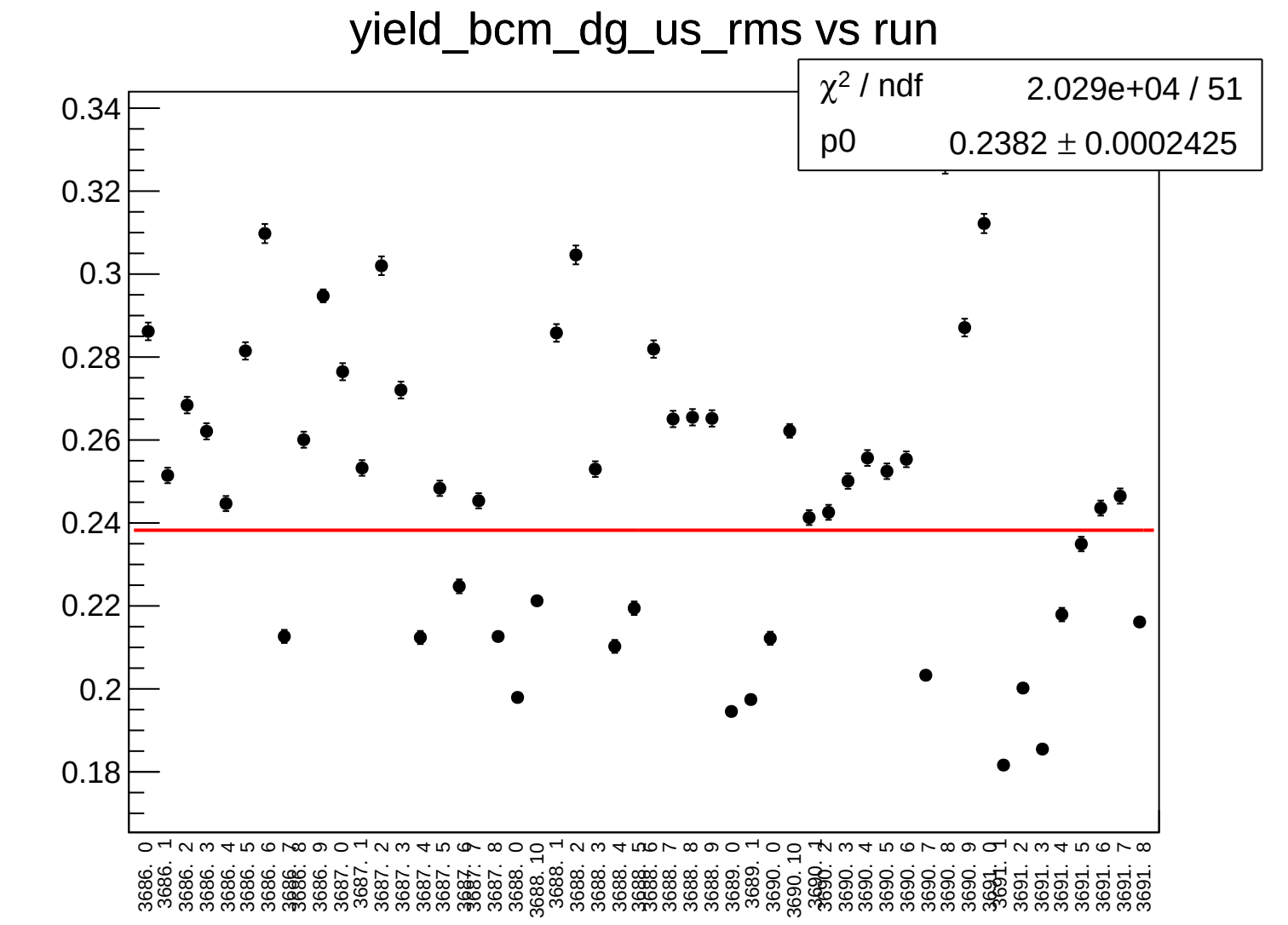
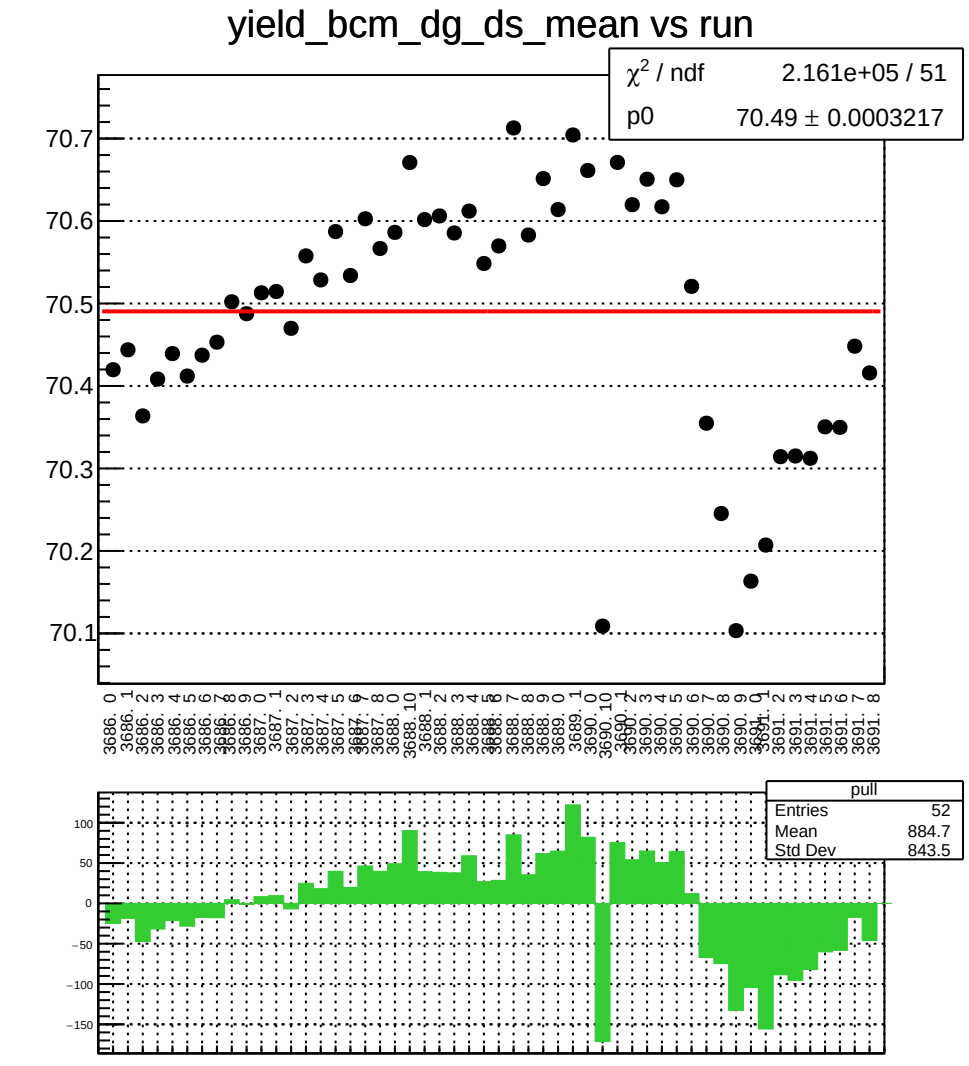
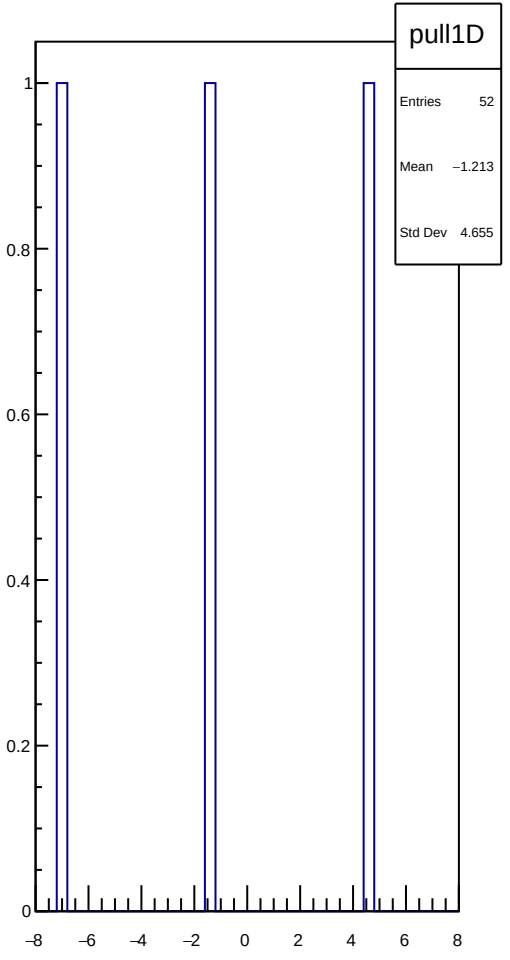
3691. 5
3691. 6
3691. 7
3691. 8

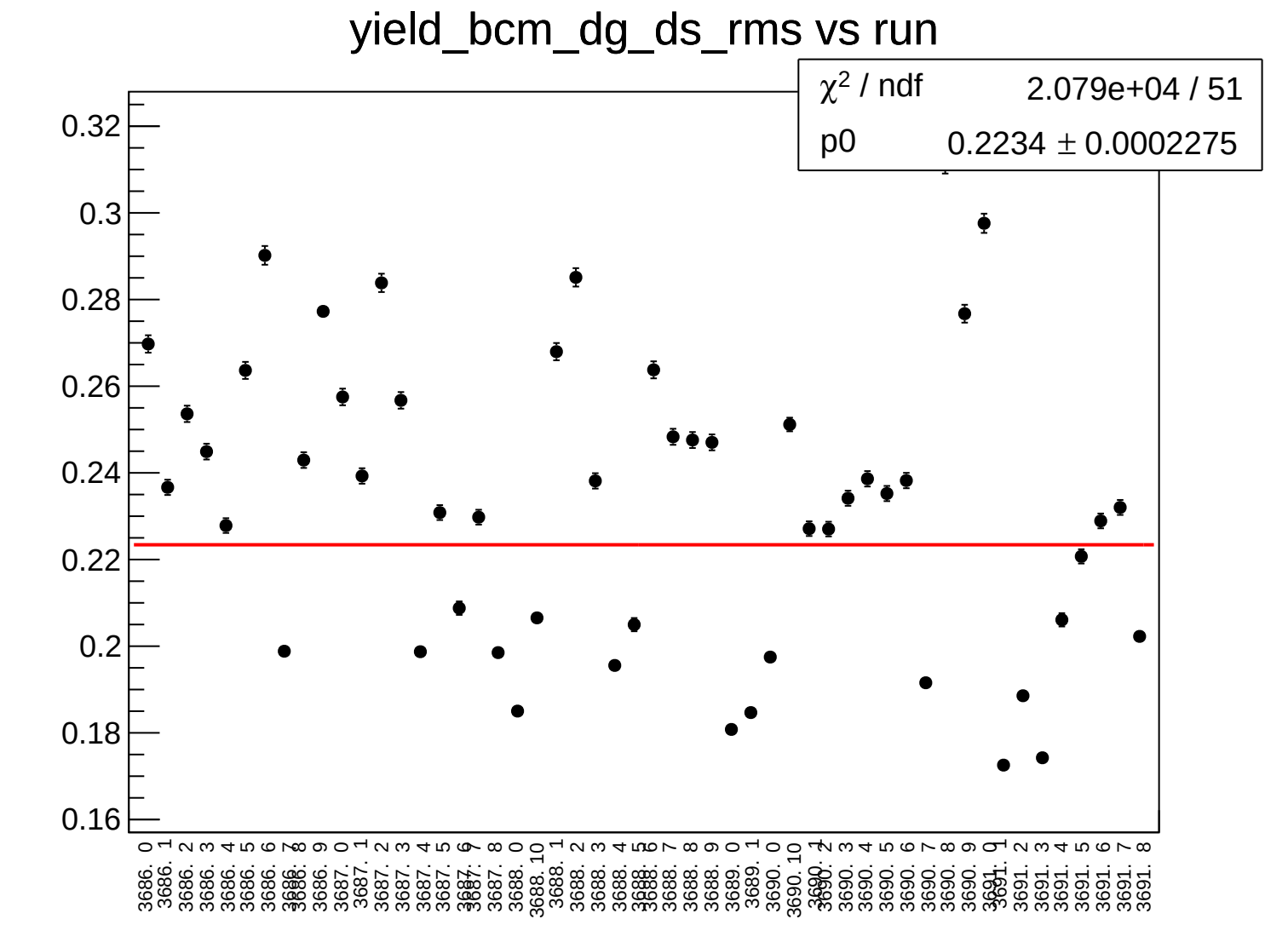

yield_bcm_dg_us_mean vs run
χ² / ndf 2.412e+05 / 51
p0 74.92 ± 0.000343
75.2
75.1
75
74.9
74.8
74.7
74.6
74.5
pull
Entries 52
Mean −955.8
Std Dev 993.9
100
50
0
−50
−100
−150

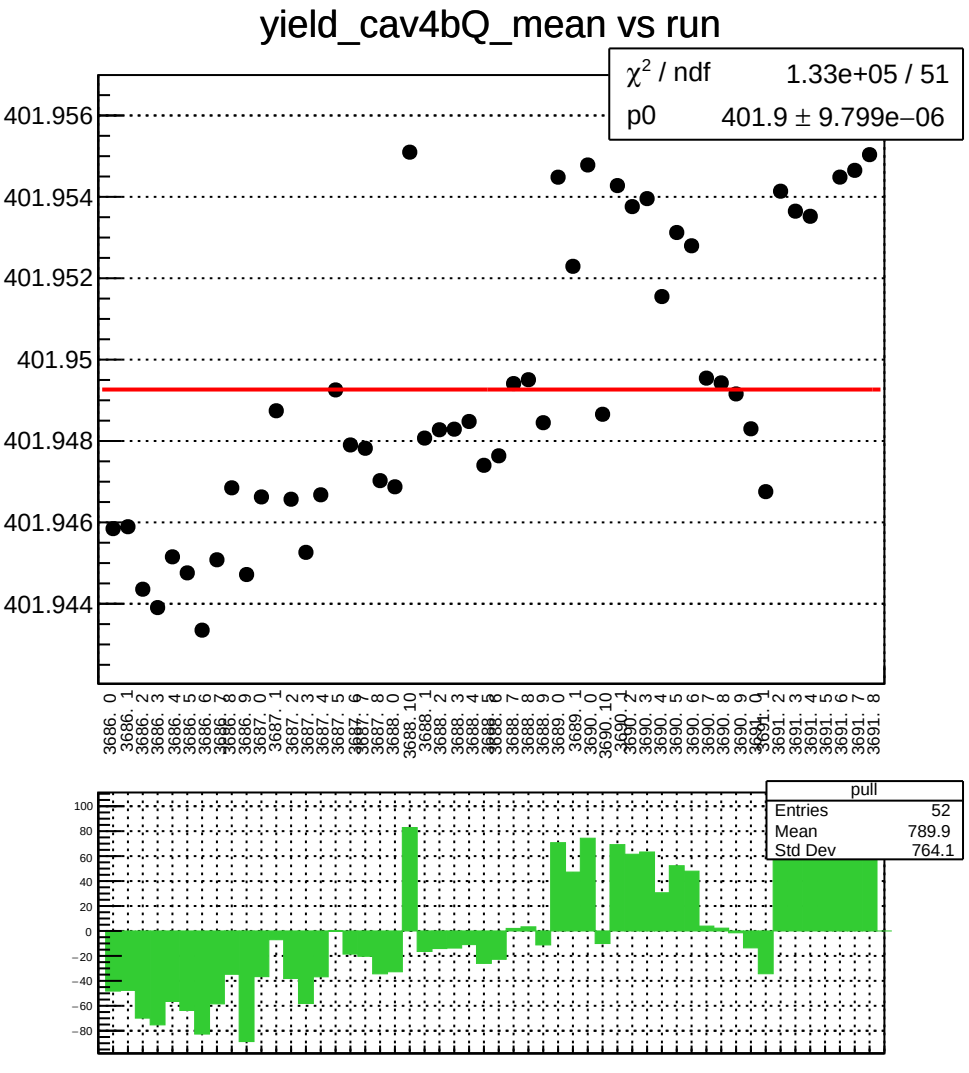

pull1D
Entries 52
Mean −0.5081
Std Dev 5.18
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

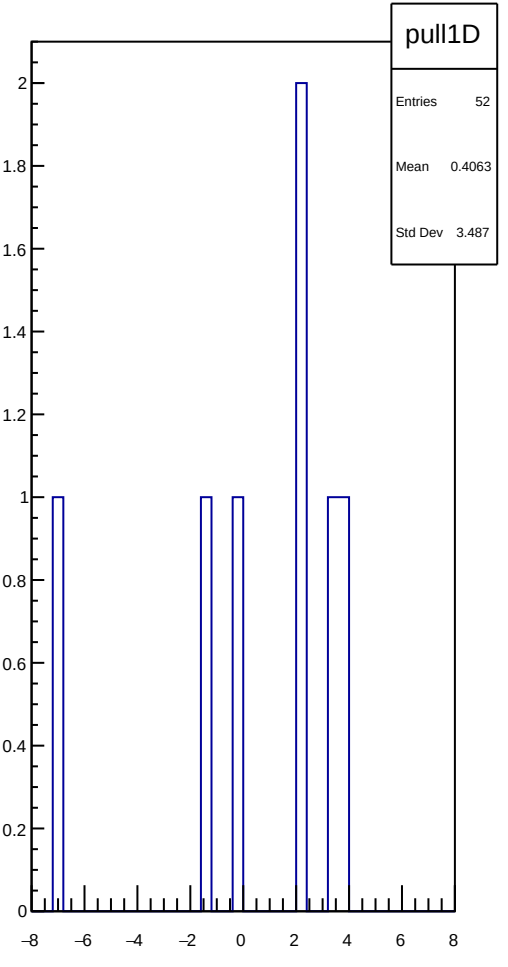

yield_bcm_dg_us_rms vs run
χ² / ndf 2.029e+04 / 51
p0 0.2382 ± 0.0002425
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

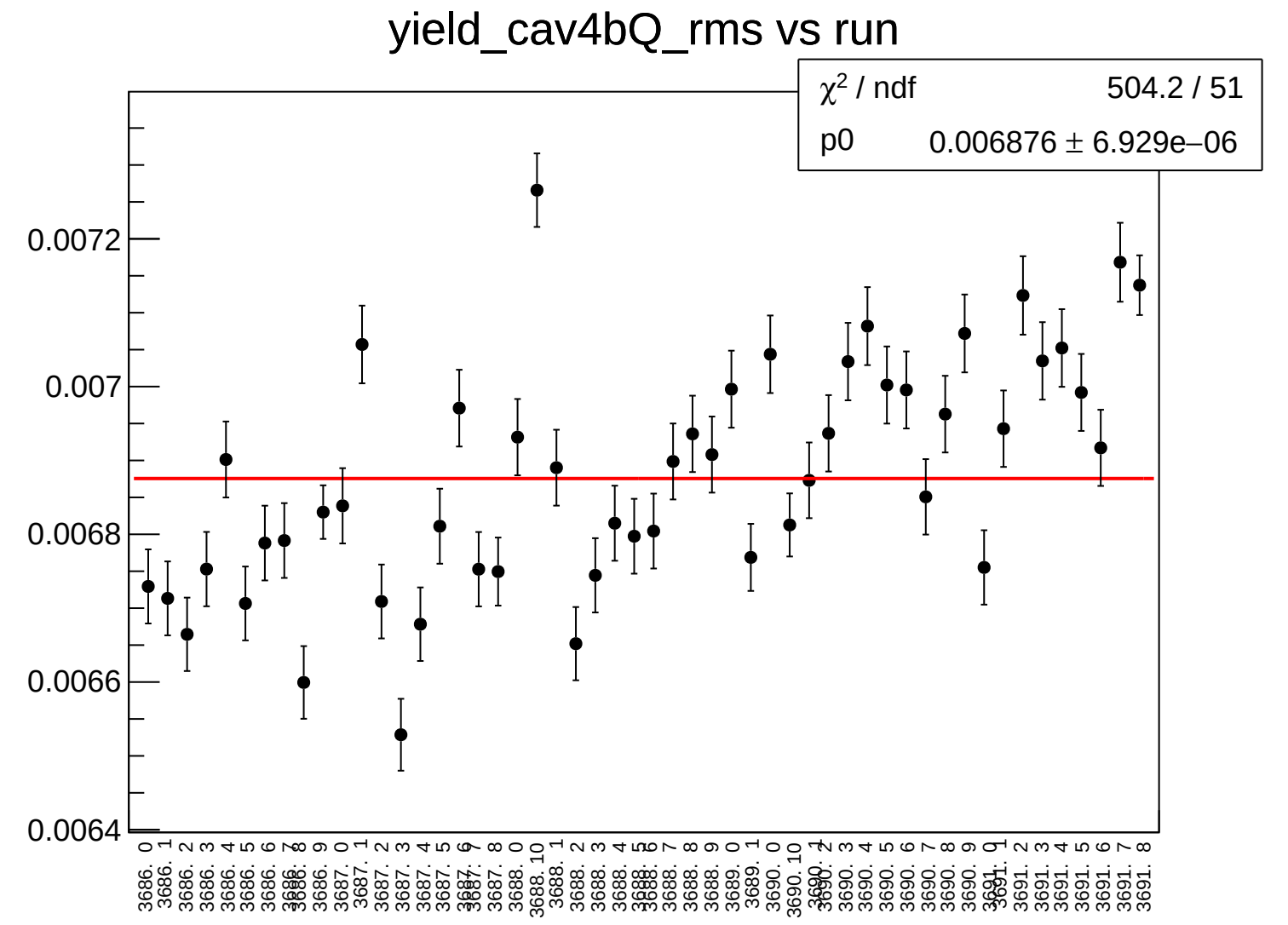

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.161e+05 / 51
p0 70.49 ± 0.0003217
70.7
70.6
70.5
70.4
70.3
70.2
70.1
pull
Entries 52
Mean 884.7
Std Dev 843.5
100
50
0
−50
−100
−150

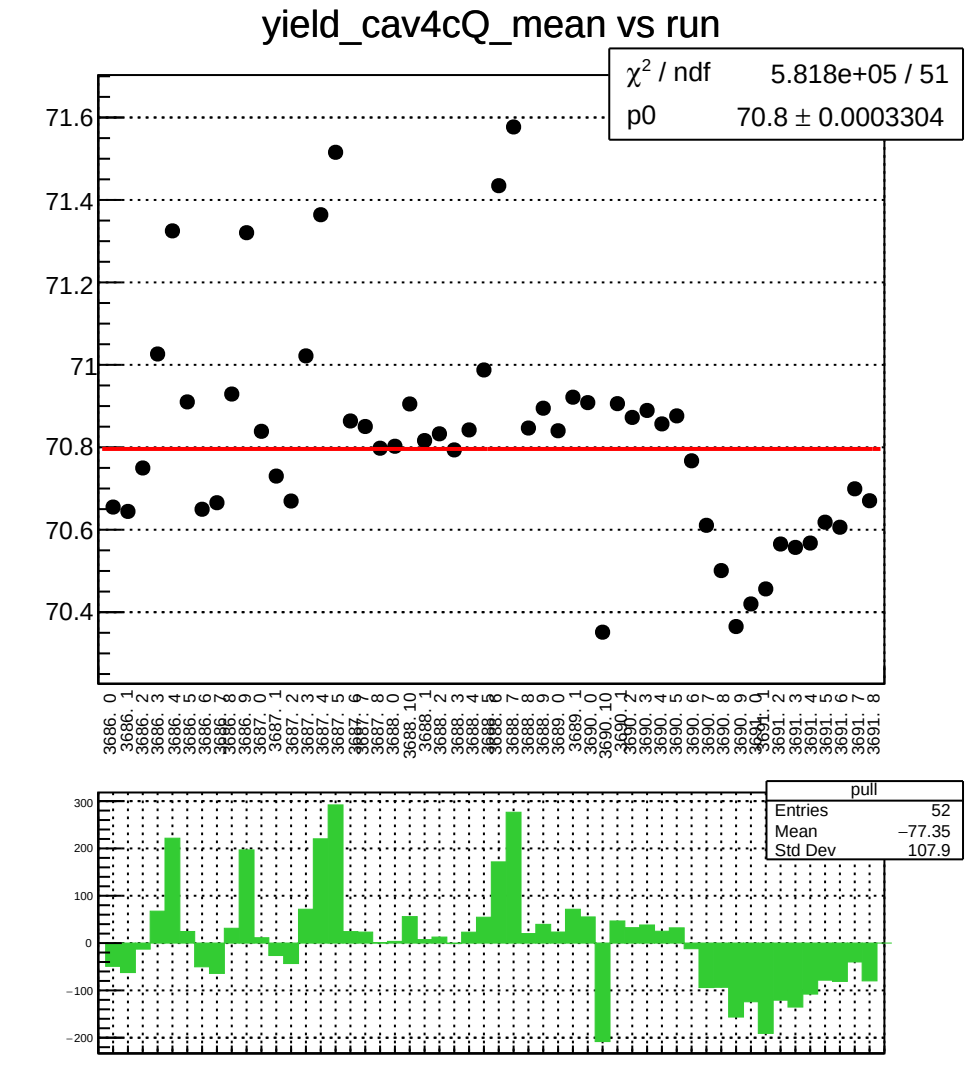

pull1D
Entries 52
Mean −1.213
Std Dev 4.655
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

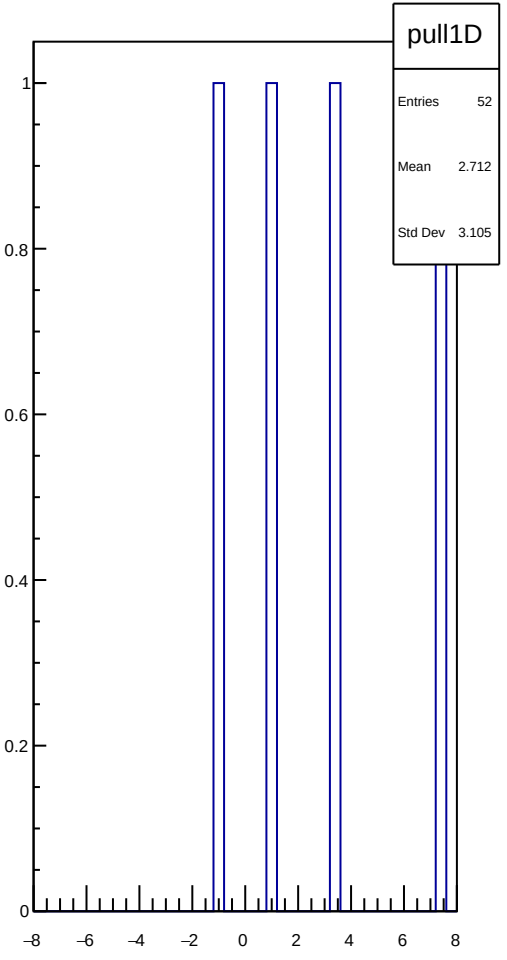

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.079e+04 / 51
p0 0.2234 ± 0.0002275
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

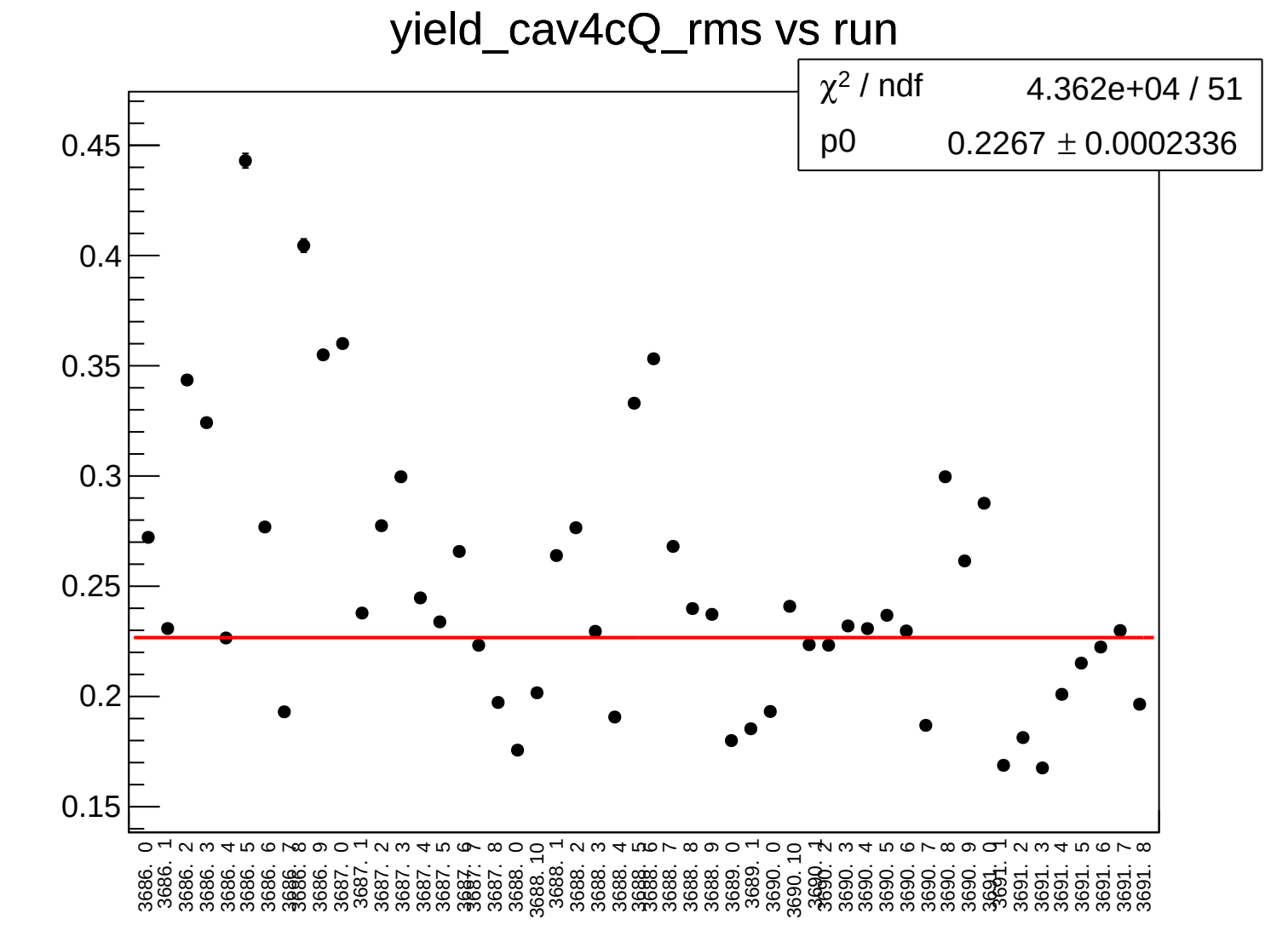

yield_cav4bQ_mean vs run
χ^2 / ndf 1.33e+05 / 51
p0 401.9 ± 9.799e−06
401.956
401.954
401.952
401.95
401.948
401.946
401.944
pull
Entries 52
Mean 789.9
Std Dev 764.1

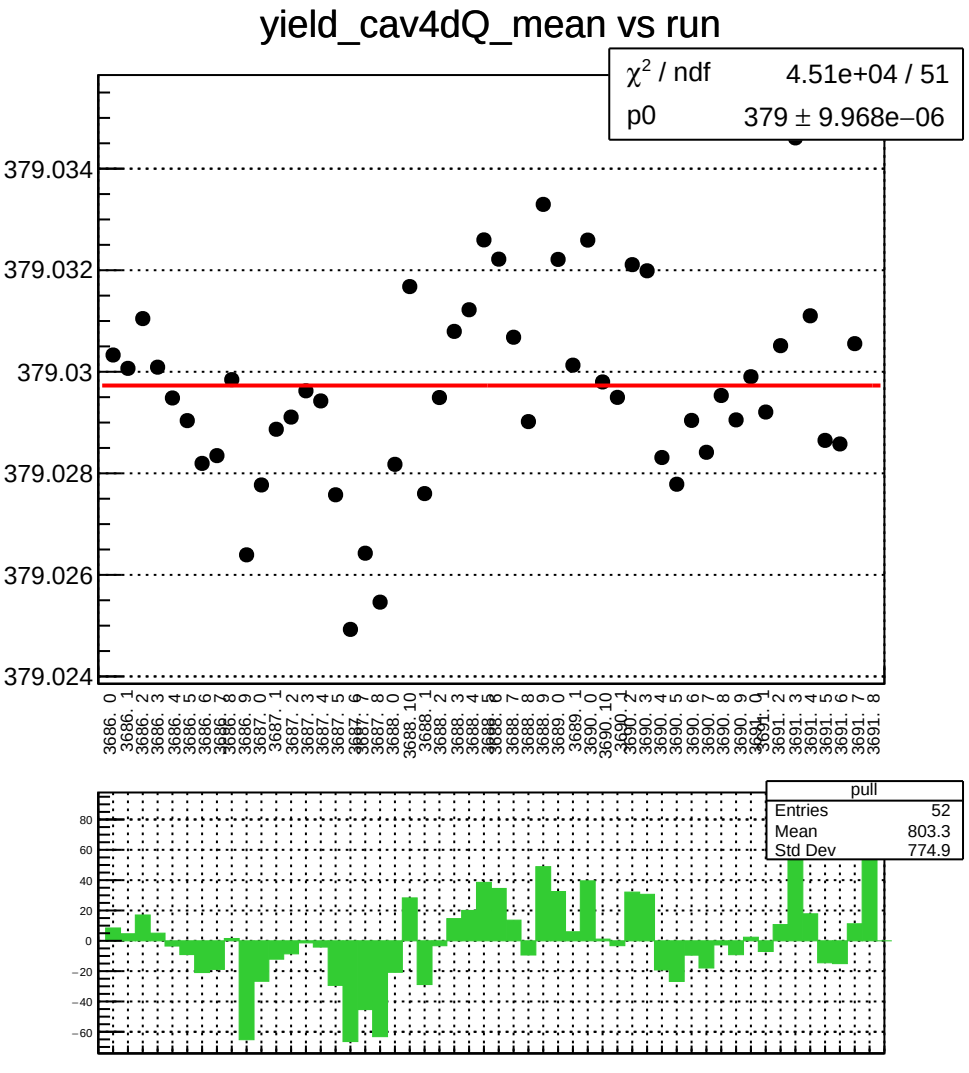

pull1D
Entries 52
Mean 0.4063
Std Dev 3.487

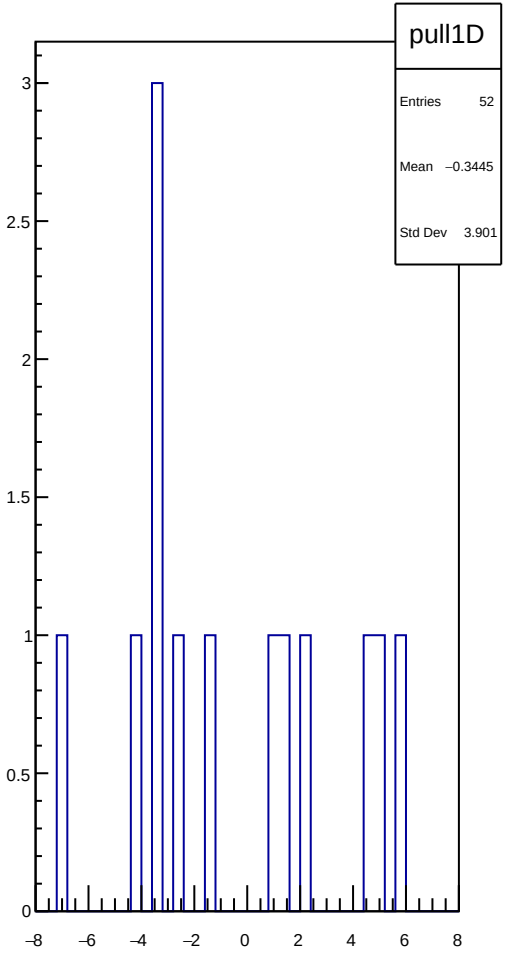

yield_cav4bQ_rms vs run
χ² / ndf 504.2 / 51
p0 0.006876 ± 6.929e−06
0.0072
0.007
0.0068
0.0066
0.0064
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

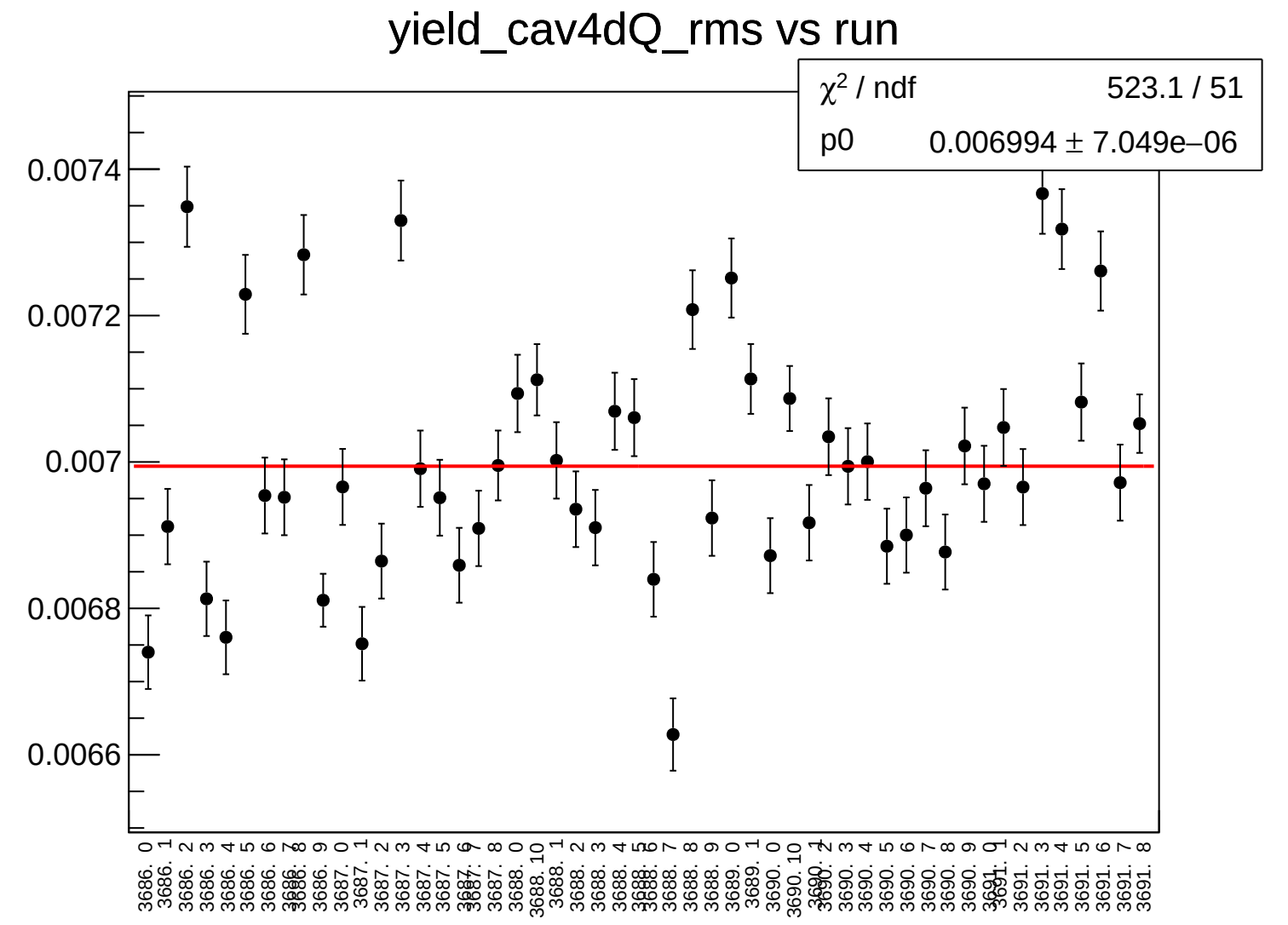

yield_cav4cQ_mean vs run
χ² / ndf 5.818e+05 / 51
p0 70.8 ± 0.0003304
71.6
71.4
71.2
71
70.8
70.6
70.4
pull
Entries 52
Mean −77.35
Std Dev 107.9
300
200
100
0
−100
−200

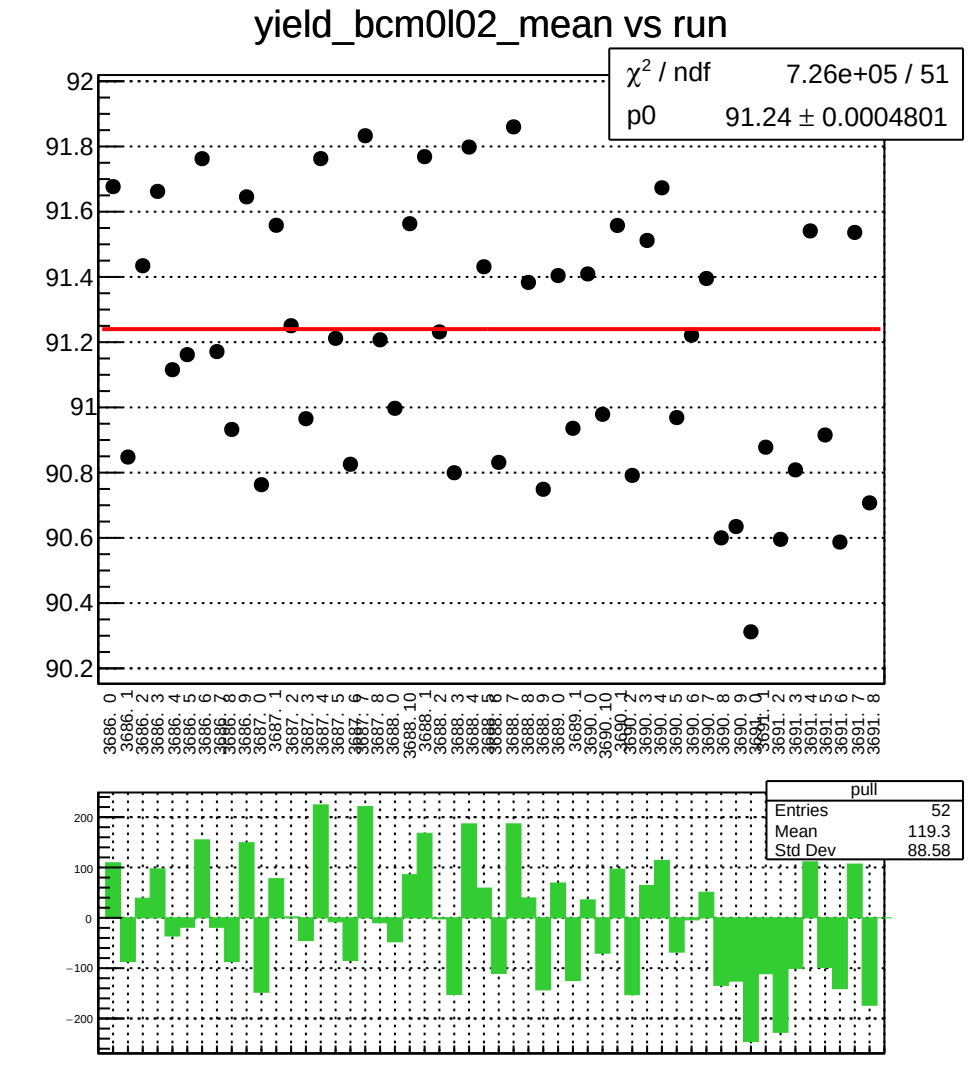

pull1D
Entries 52
Mean 2.712
Std Dev 3.105
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

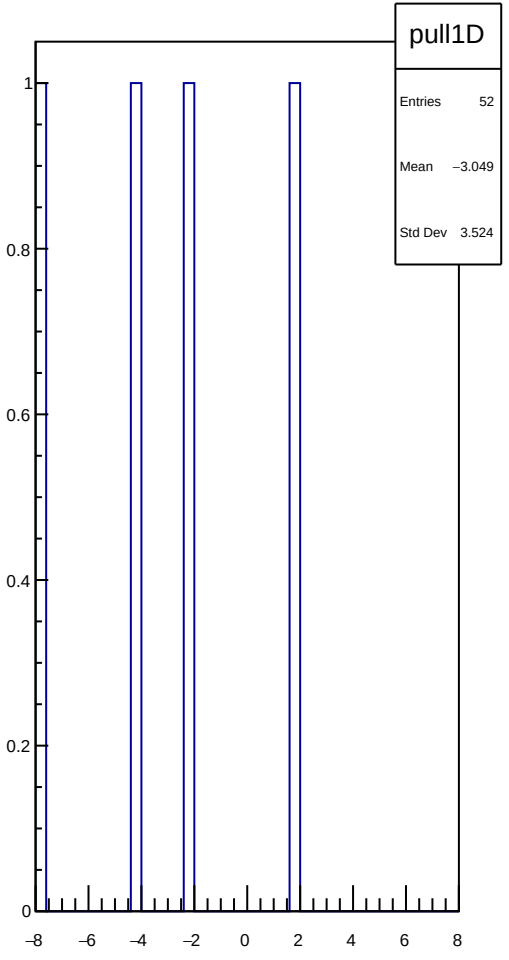

yield_cav4cQ_rms vs run
χ² / ndf 4.362e+04 / 51
p0 0.2267 ± 0.0002336
0.45
0.4
0.35
0.3
0.25
0.2
0.15

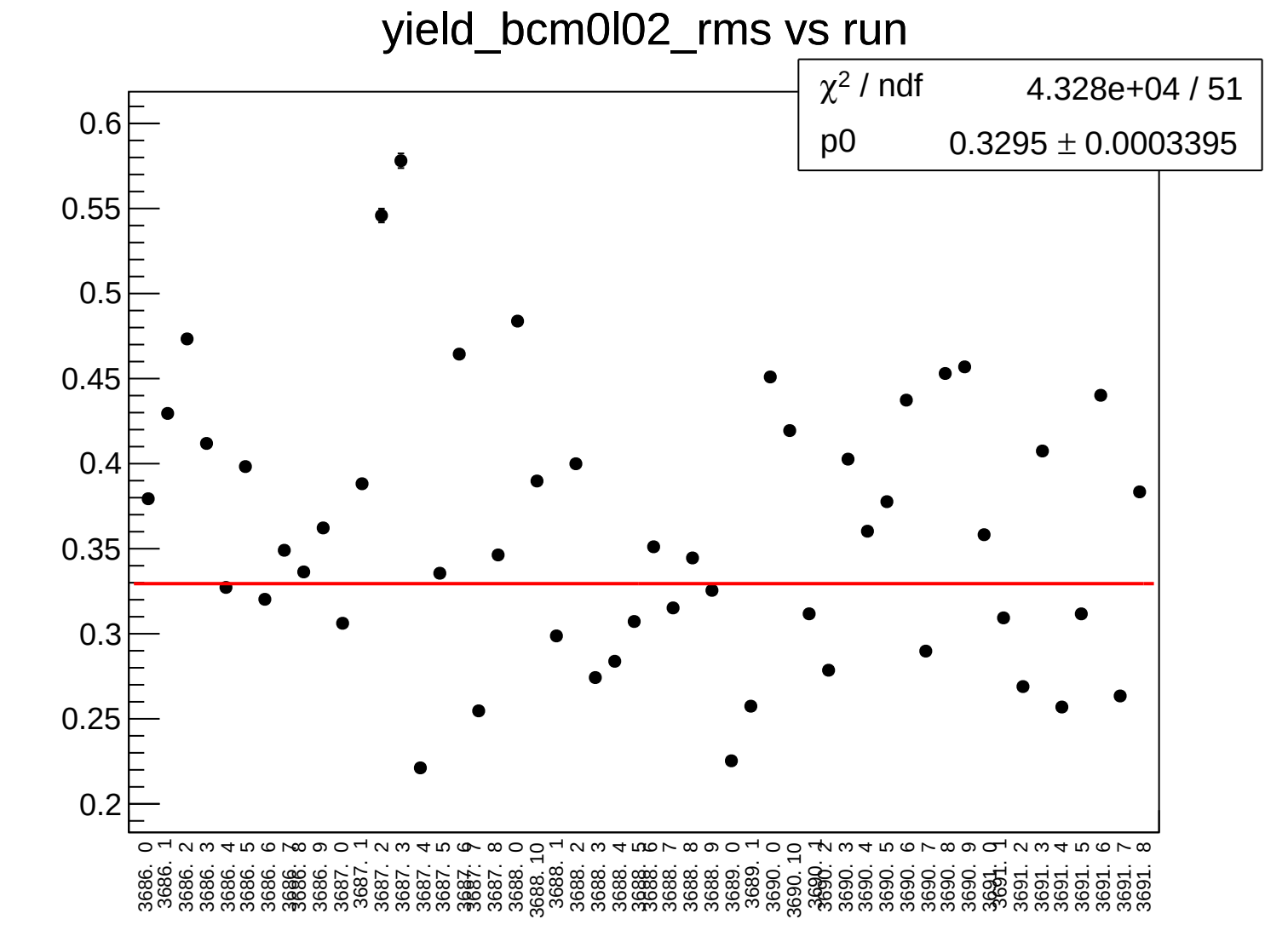

yield_cav4dQ_mean vs run
χ² / ndf 4.51e+04 / 51
p0 379 ± 9.968e−06
379.034
379.032
379.03
379.028
379.026
379.024
pull
Entries 52
Mean 803.3
Std Dev 774.9
80
60
40
20
0
−20
−40
−60

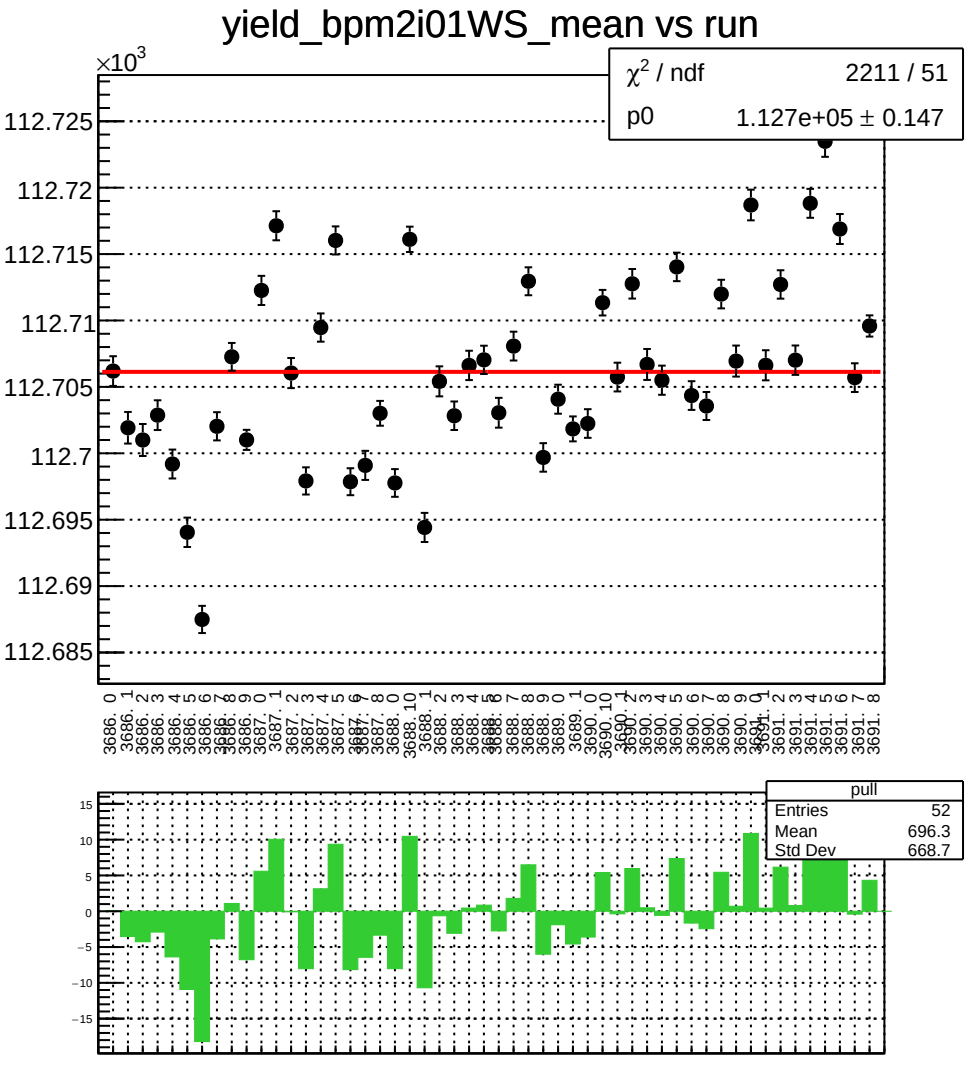

pull1D
Entries 52
Mean −0.3445
Std Dev 3.901
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

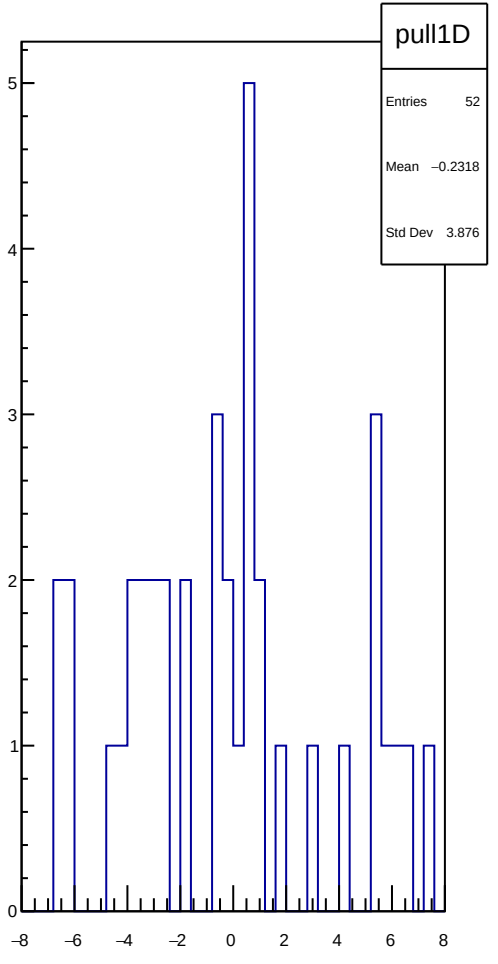

yield_cav4dQ_rms vs run
χ² / ndf 523.1 / 51
p0 0.006994 ± 7.049e−06
0.0074
0.0072
0.007
0.0068
0.0066

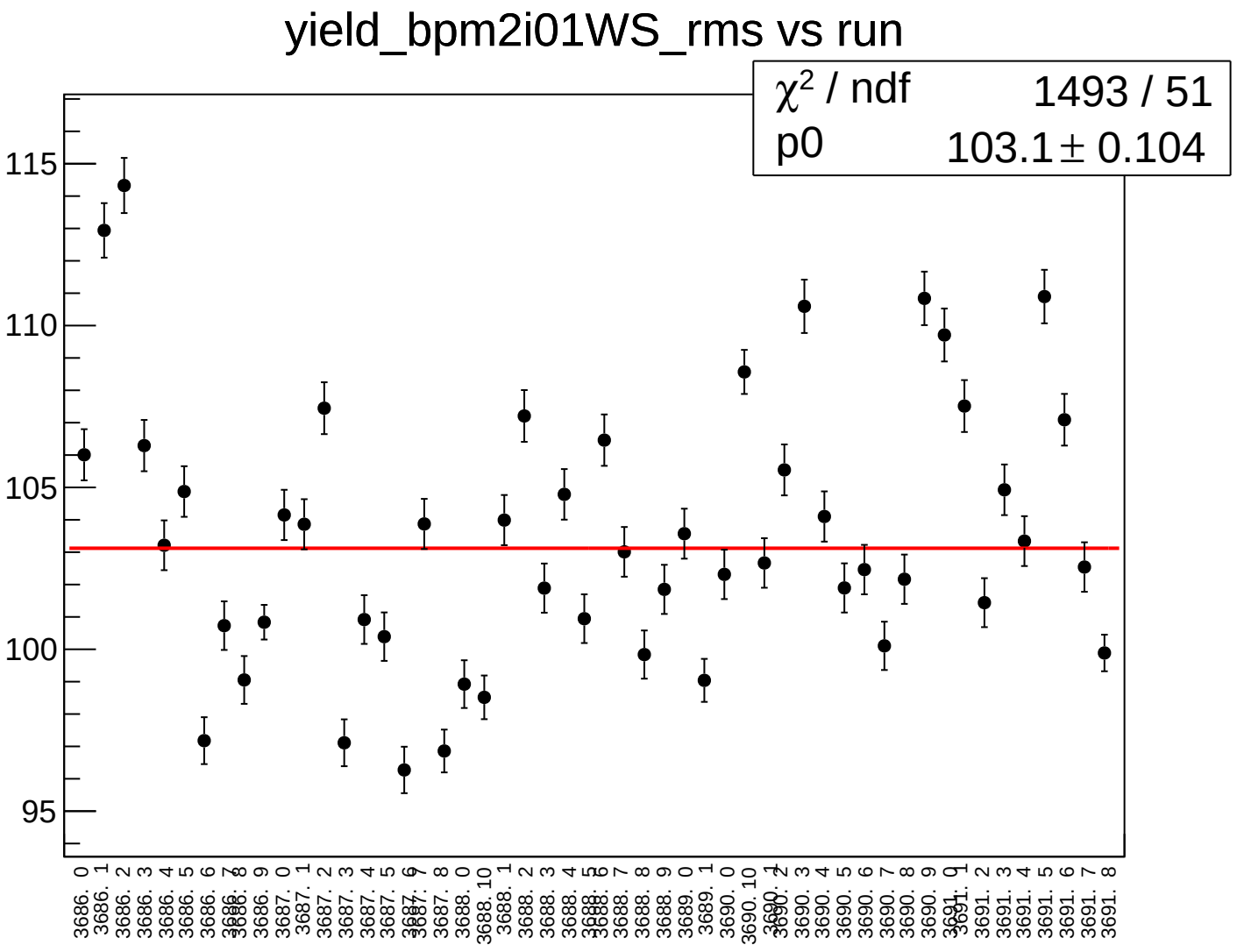

yield_bcm0l02_mean vs run
χ² / ndf 7.26e+05 / 51
p0 91.24 ± 0.0004801
92
91.8
91.6
91.4
91.2
91
90.8
90.6
90.4
90.2
pull
Entries 52
Mean 119.3
Std Dev 88.58
200
100
0
−100
−200

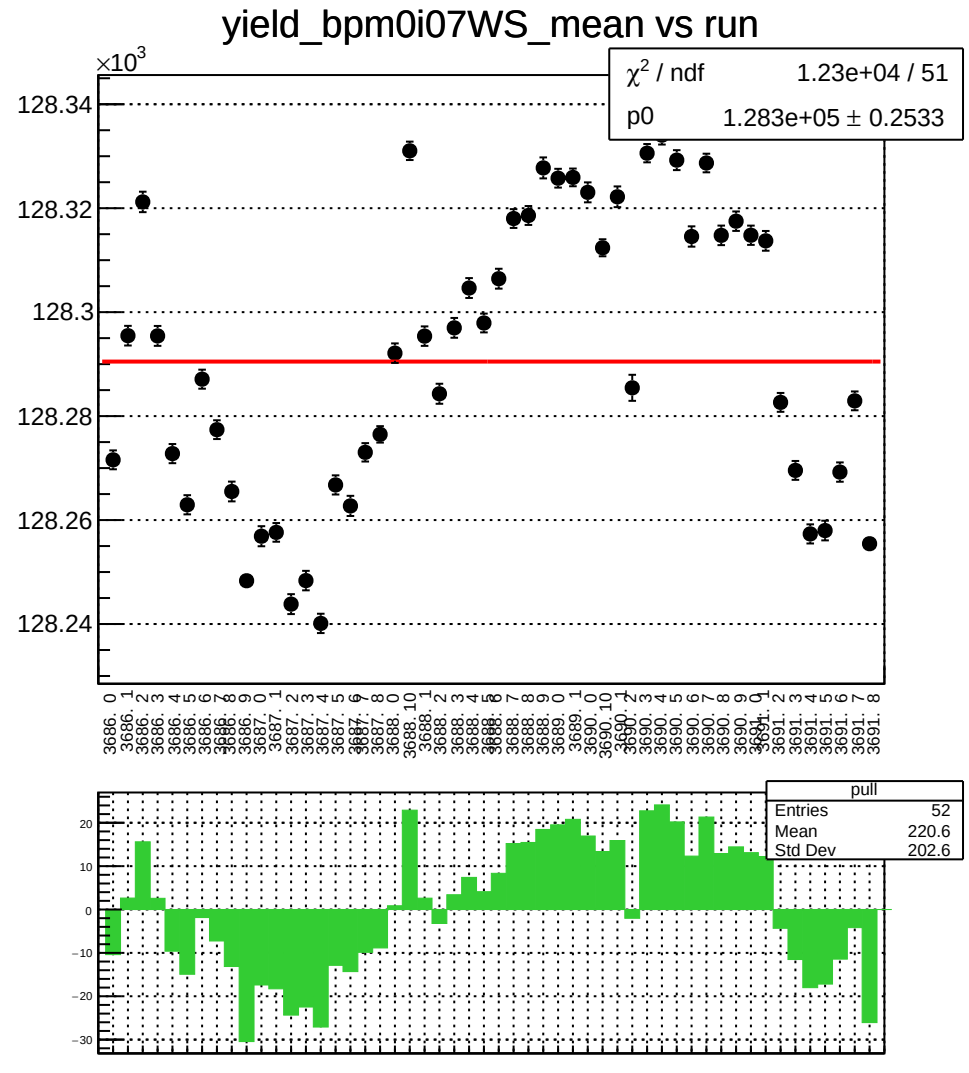

pull1D
Entries 52
Mean −3.049
Std Dev 3.524
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

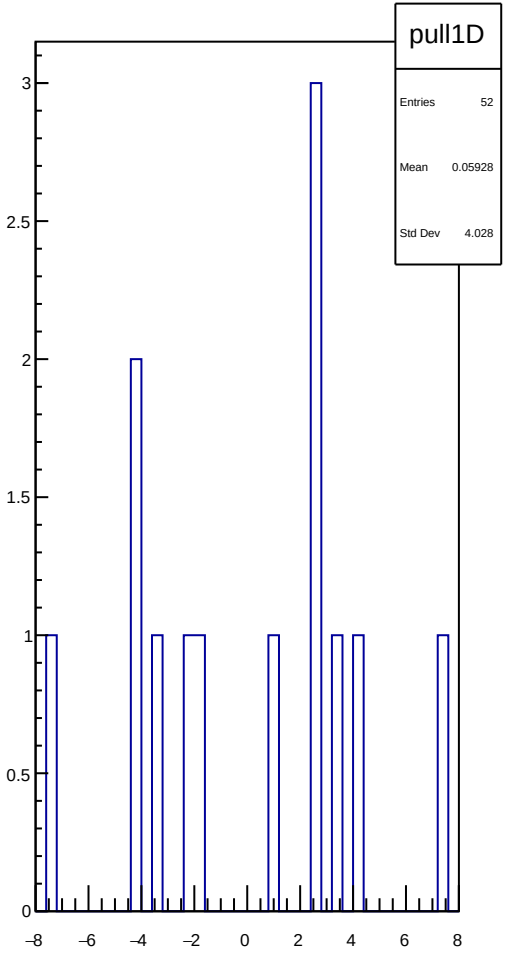

yield_bcm0l02_rms vs run
χ² / ndf 4.328e+04 / 51
p0 0.3295 ± 0.0003395
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

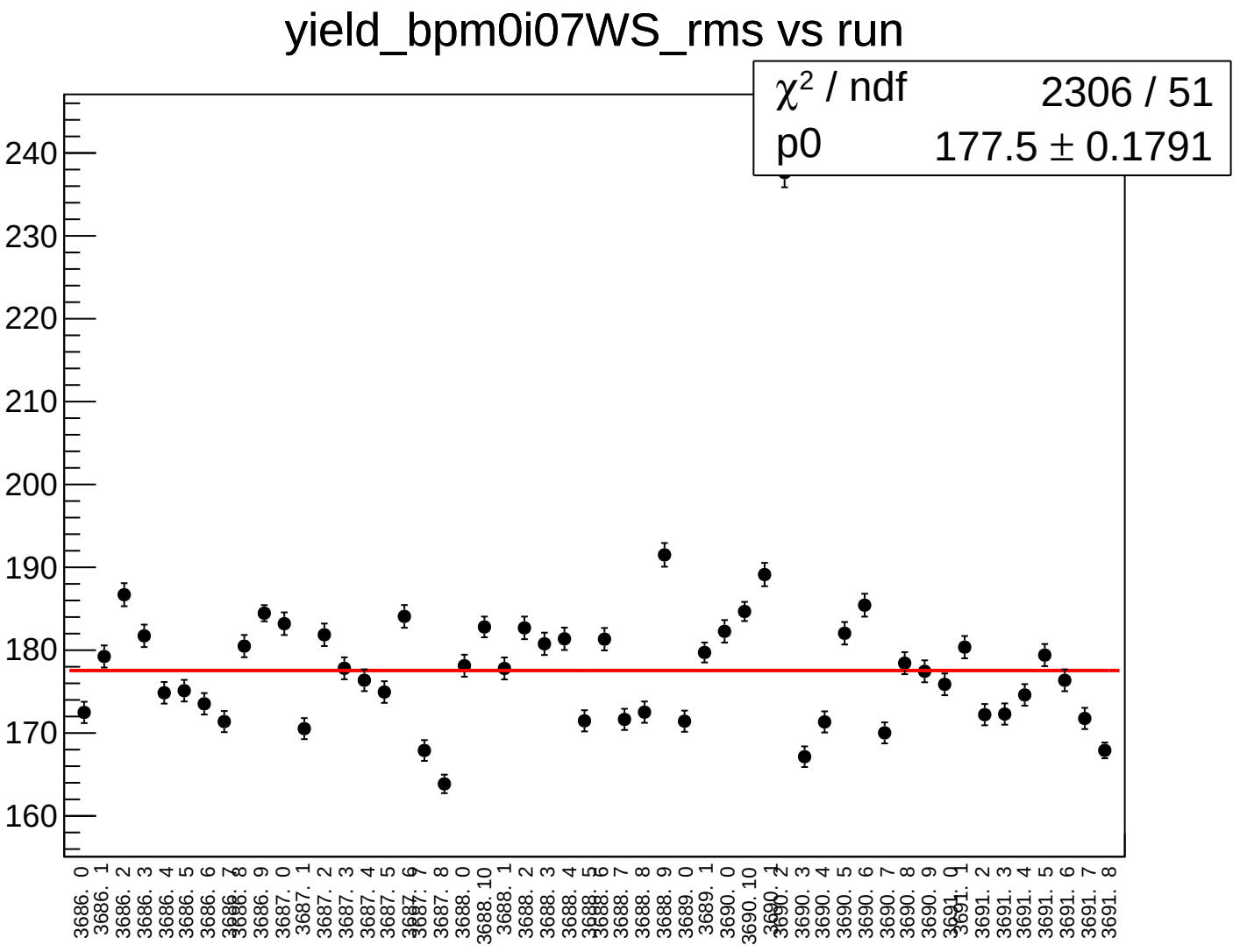

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2211 / 51
p0 1.127e+05 ± 0.147
112.725
112.72
112.715
112.71
112.705
112.7
112.695
112.69
112.685
pull
Entries 52
Mean 696.3
Std Dev 668.7

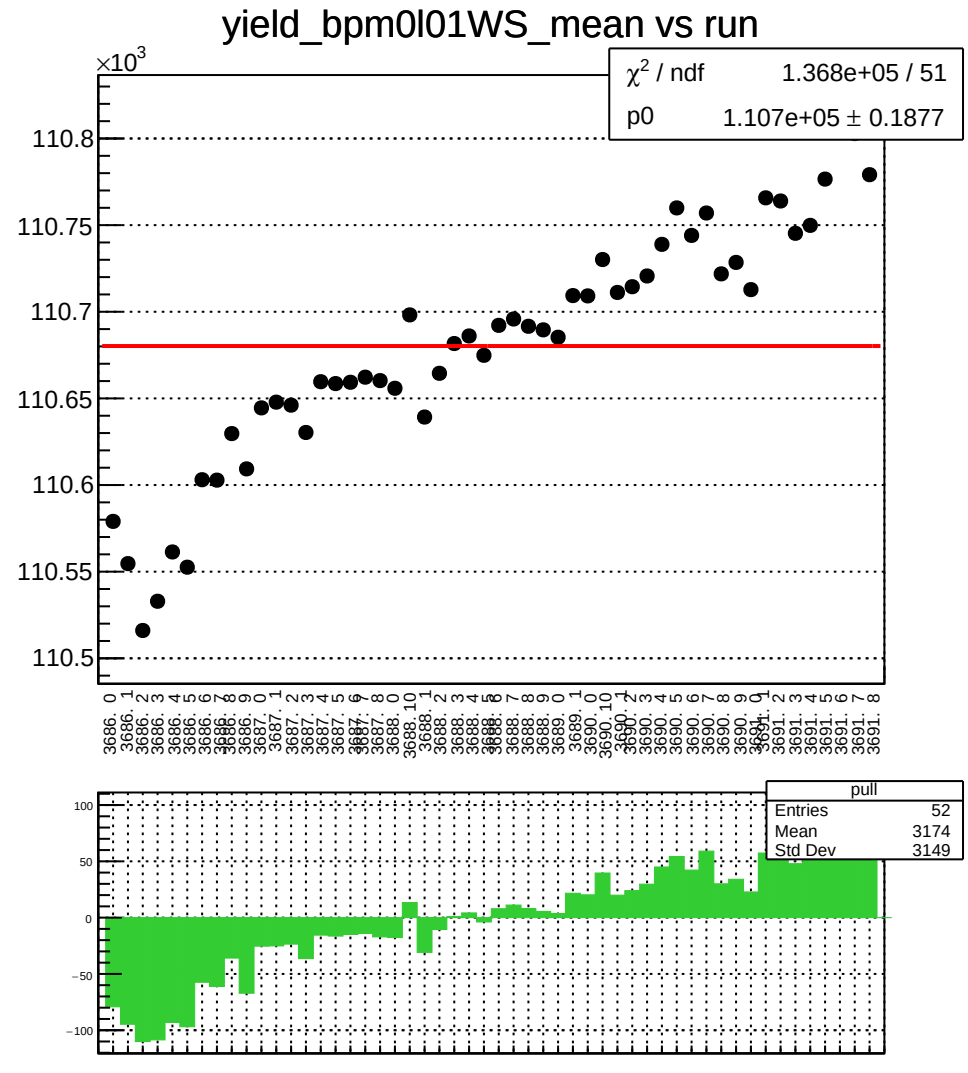

pull1D
Entries 52
Mean −0.2318
Std Dev 3.876

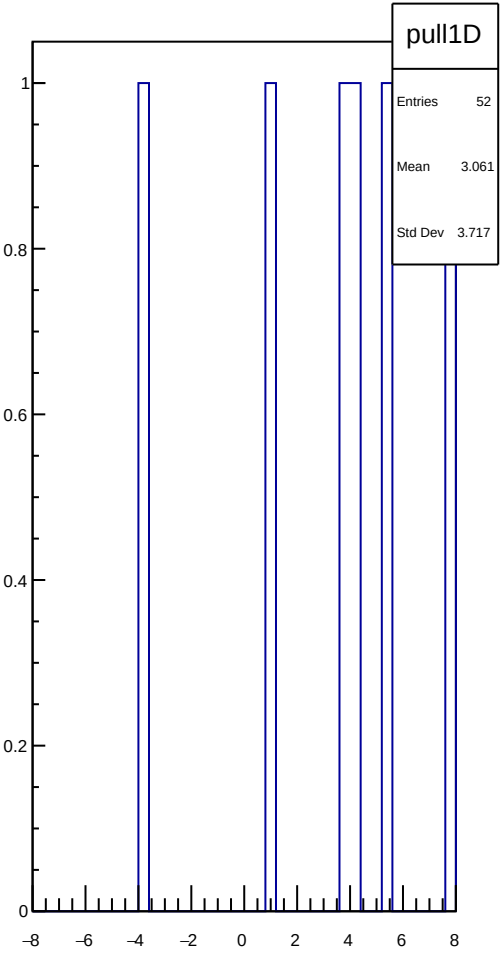

yield_bpm2i01WS_rms vs run
χ² / ndf 1493 / 51
p0 103.1 ± 0.104
115
110
105
100
95
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

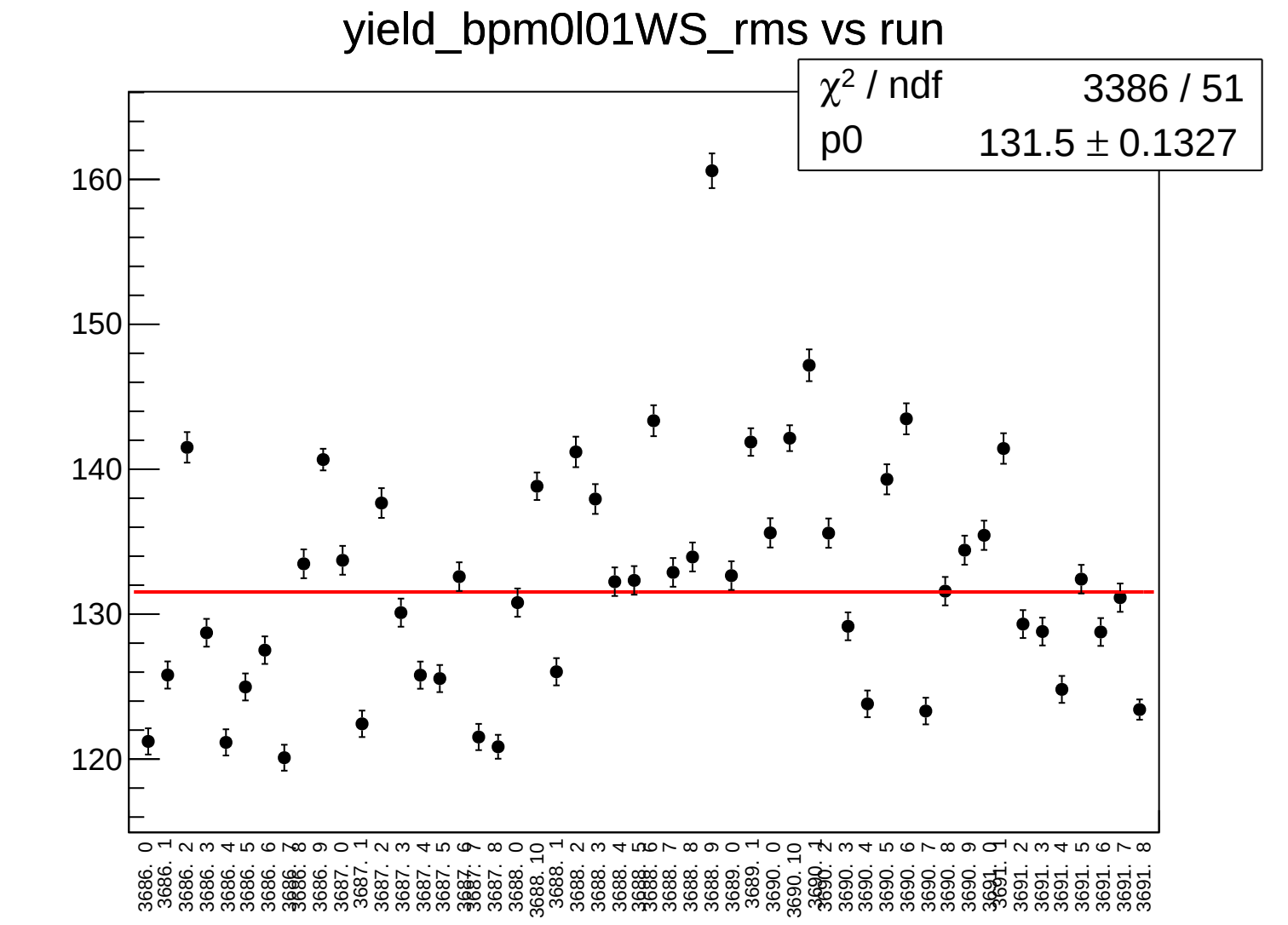

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.23e+04 / 51
p0 1.283e+05 ± 0.2533
128.34
128.32
128.3
128.28
128.26
128.24
pull
Entries 52
Mean 220.6
Std Dev 202.6
20
10
0
−10
−20
−30

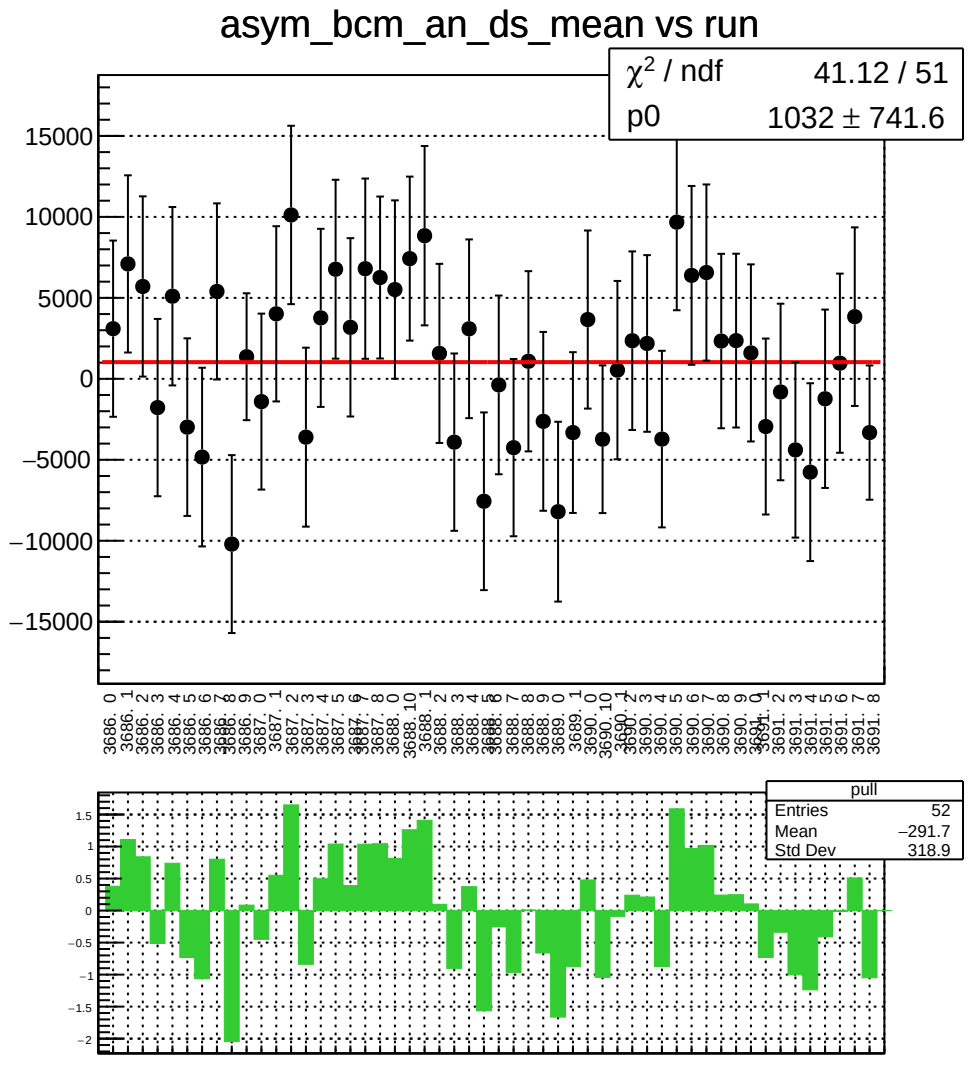

pull1D
Entries 52
Mean 0.05928
Std Dev 4.028
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

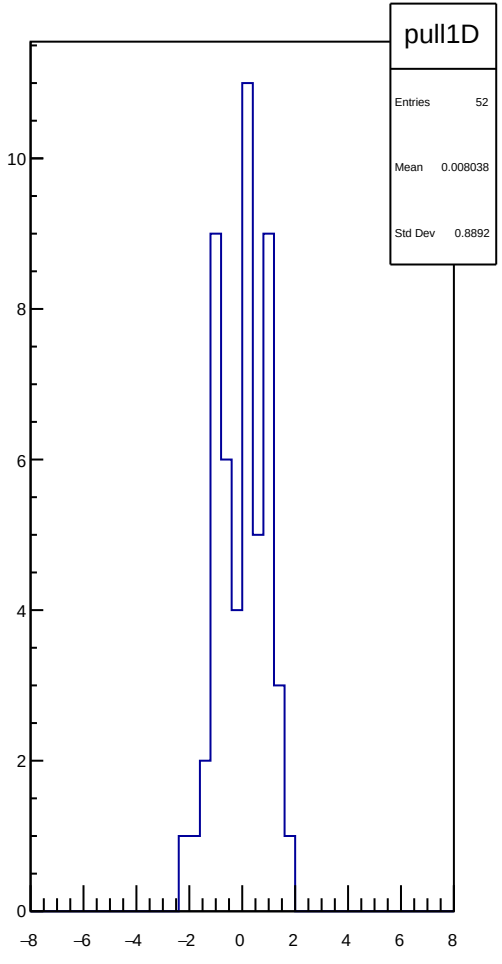

yield_bpm0i07WS_rms vs run
χ² / ndf 2306 / 51
p0 177.5 ± 0.1791
240
230
220
210
200
190
180
170
160
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

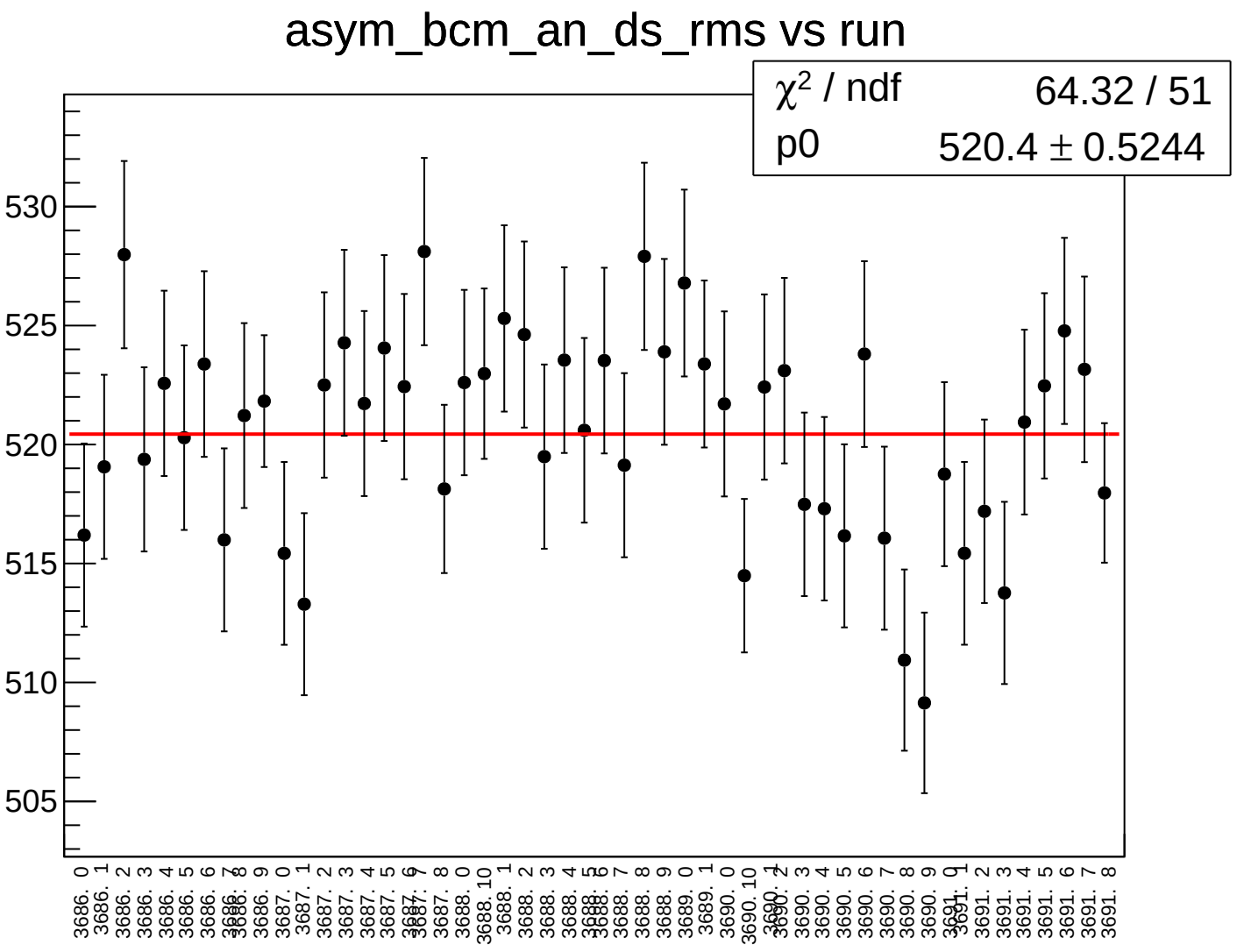

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.368e+05 / 51
p0 1.107e+05 ± 0.1877
110.8
110.75
110.7
110.65
110.6
110.55
110.5
pull
Entries 52
Mean 3174
Std Dev 3149
100
50
0
−50
−100

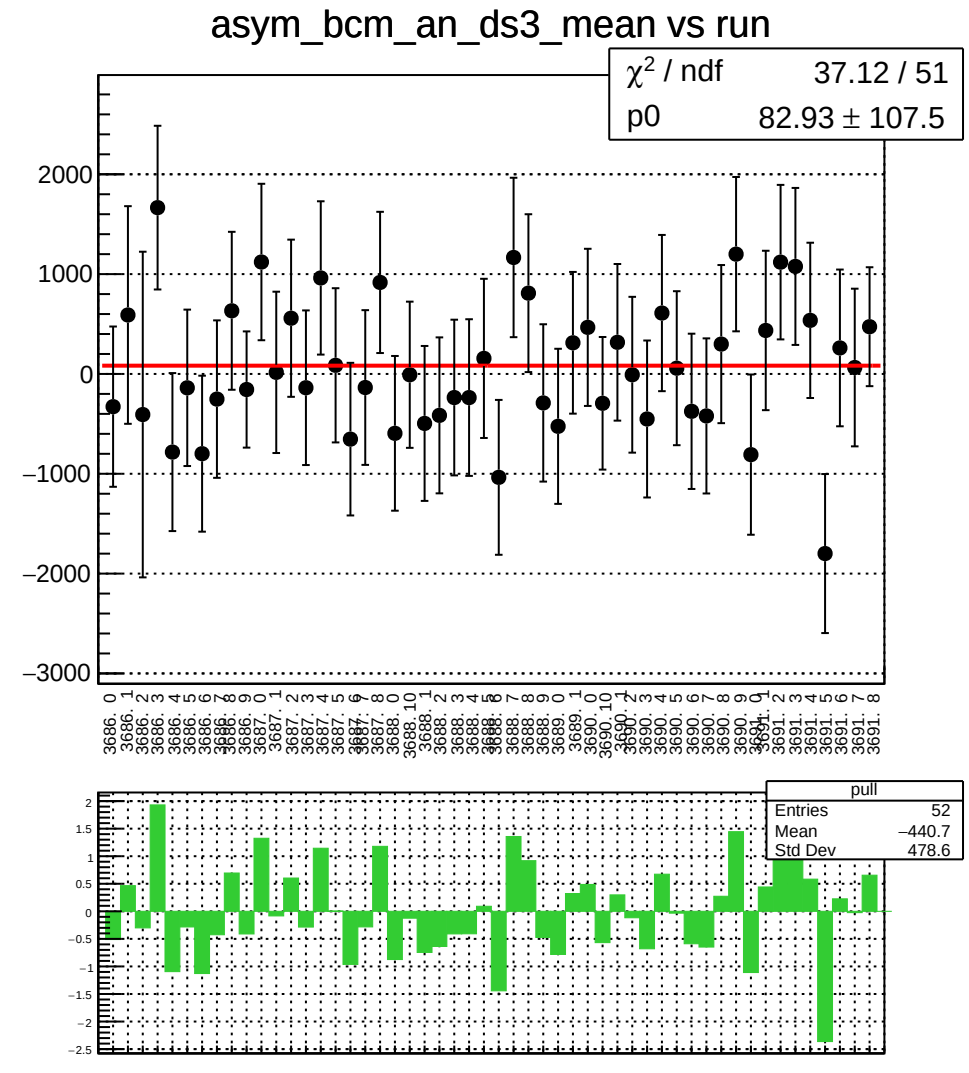

pull1D
Entries 52
Mean 3.061
Std Dev 3.717
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

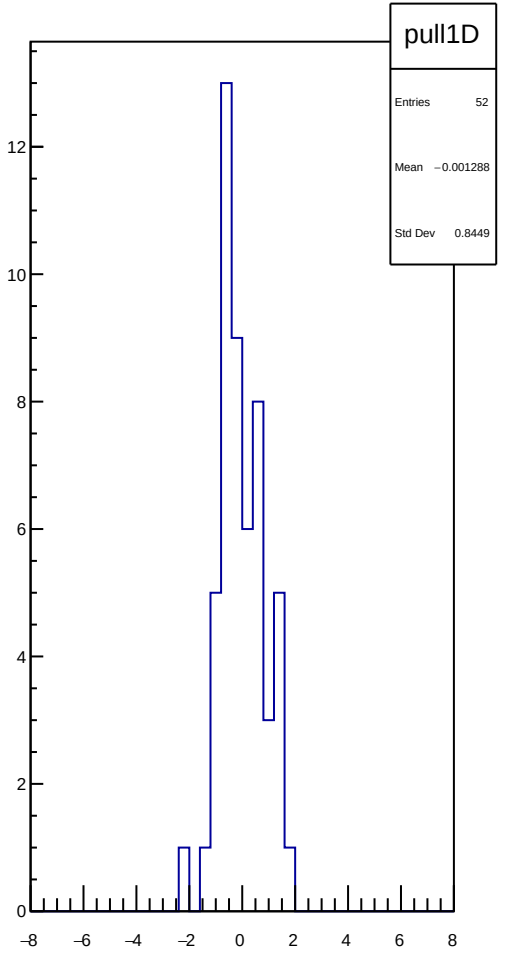

yield_bpm0l01WS_rms vs run
χ² / ndf 3386 / 51
p0 131.5 ± 0.1327
160
150
140
130
120
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

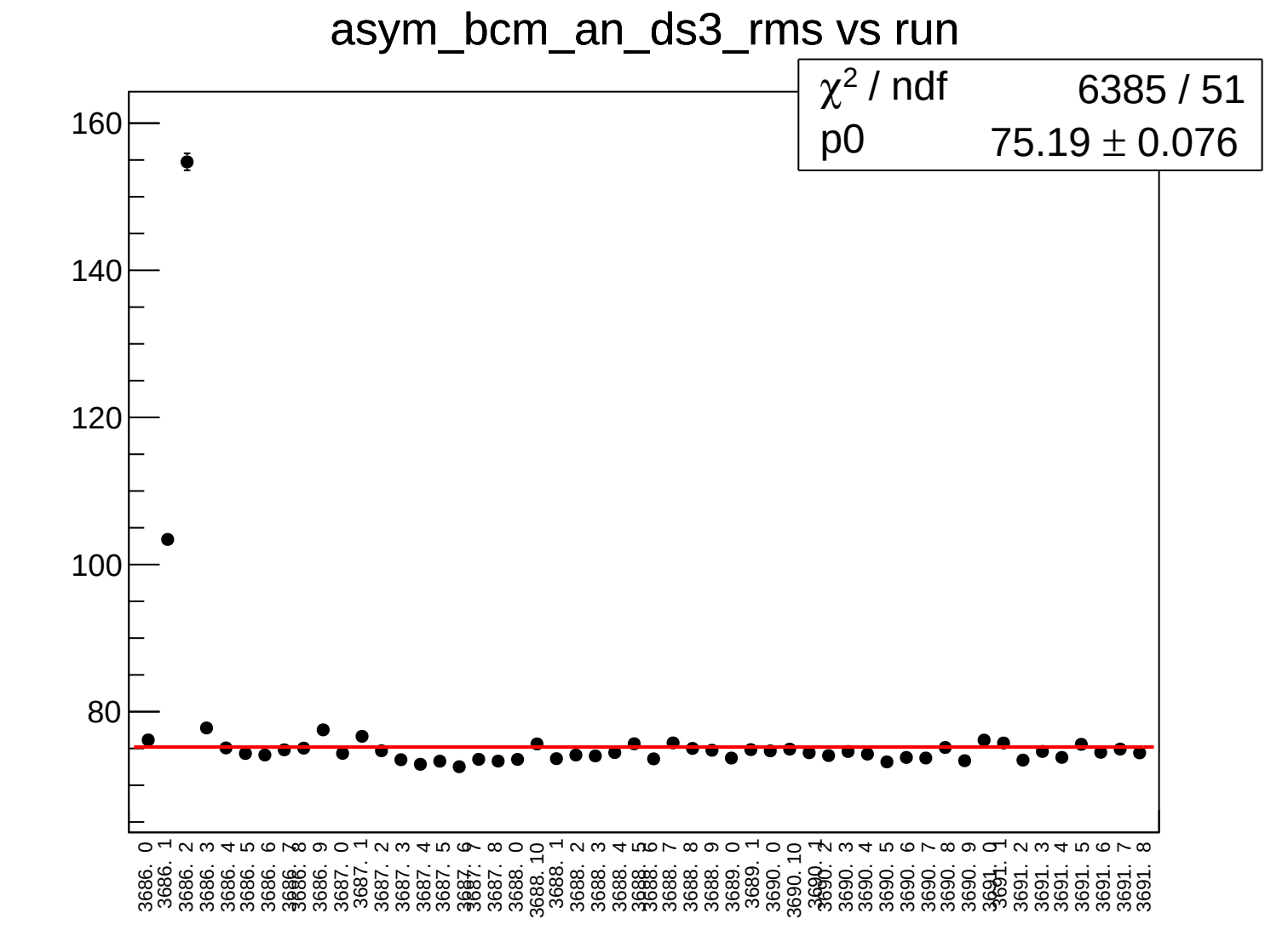

asym_bcm_an_ds_mean vs run
χ² / ndf 41.12 / 51
p0 1032 ± 741.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 52
Mean −291.7
Std Dev 318.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 52
Mean 0.008038
Std Dev 0.8892
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_ds_rms vs run
χ² / ndf 64.32 / 51
p0 520.4 ± 0.5244
530
525
520
515
510
505
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


asym_bcm_an_ds3_mean vs run
χ² / ndf 37.12 / 51
p0 82.93 ± 107.5
pull
Entries 52
Mean −440.7
Std Dev 478.6


pull1D
Entries 52
Mean −0.001288
Std Dev 0.8449


asym_bcm_an_ds3_rms vs run
χ^2 / ndf 6385 / 51
p0 75.19 ± 0.076
160
140
120
100
80
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
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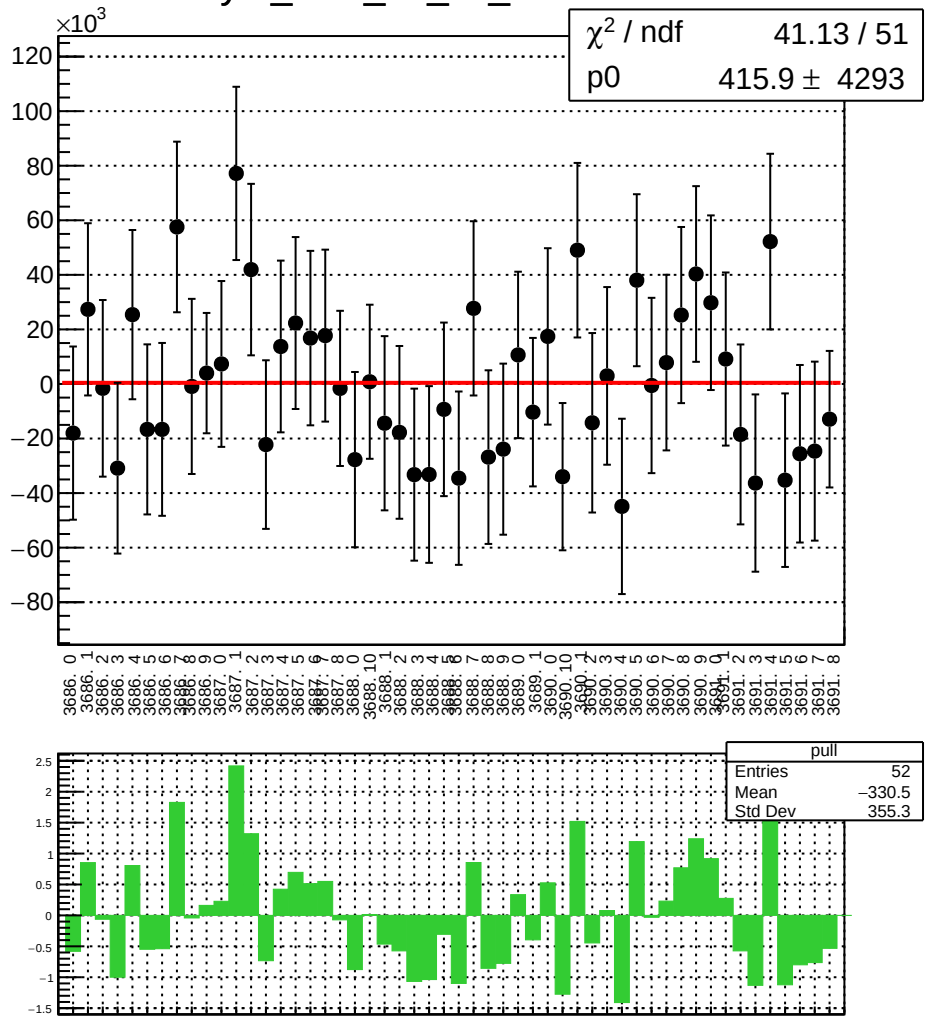
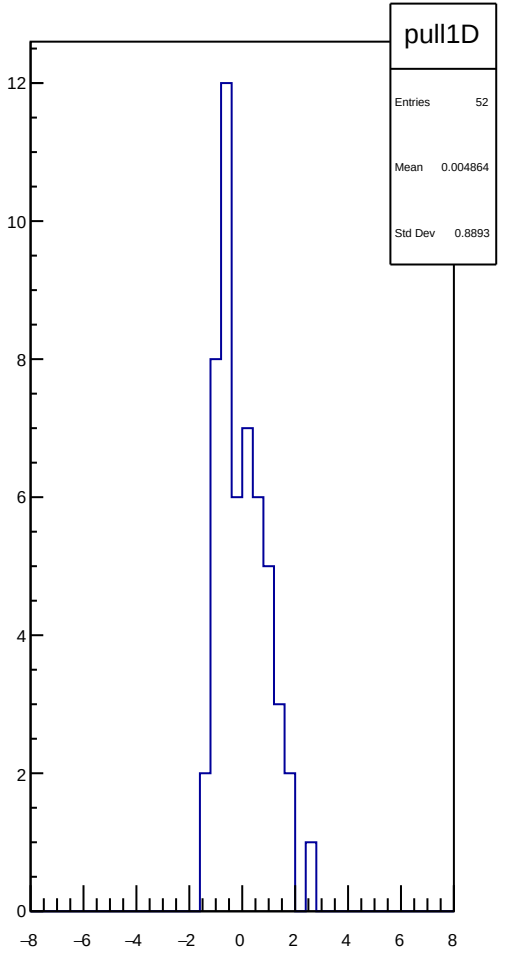
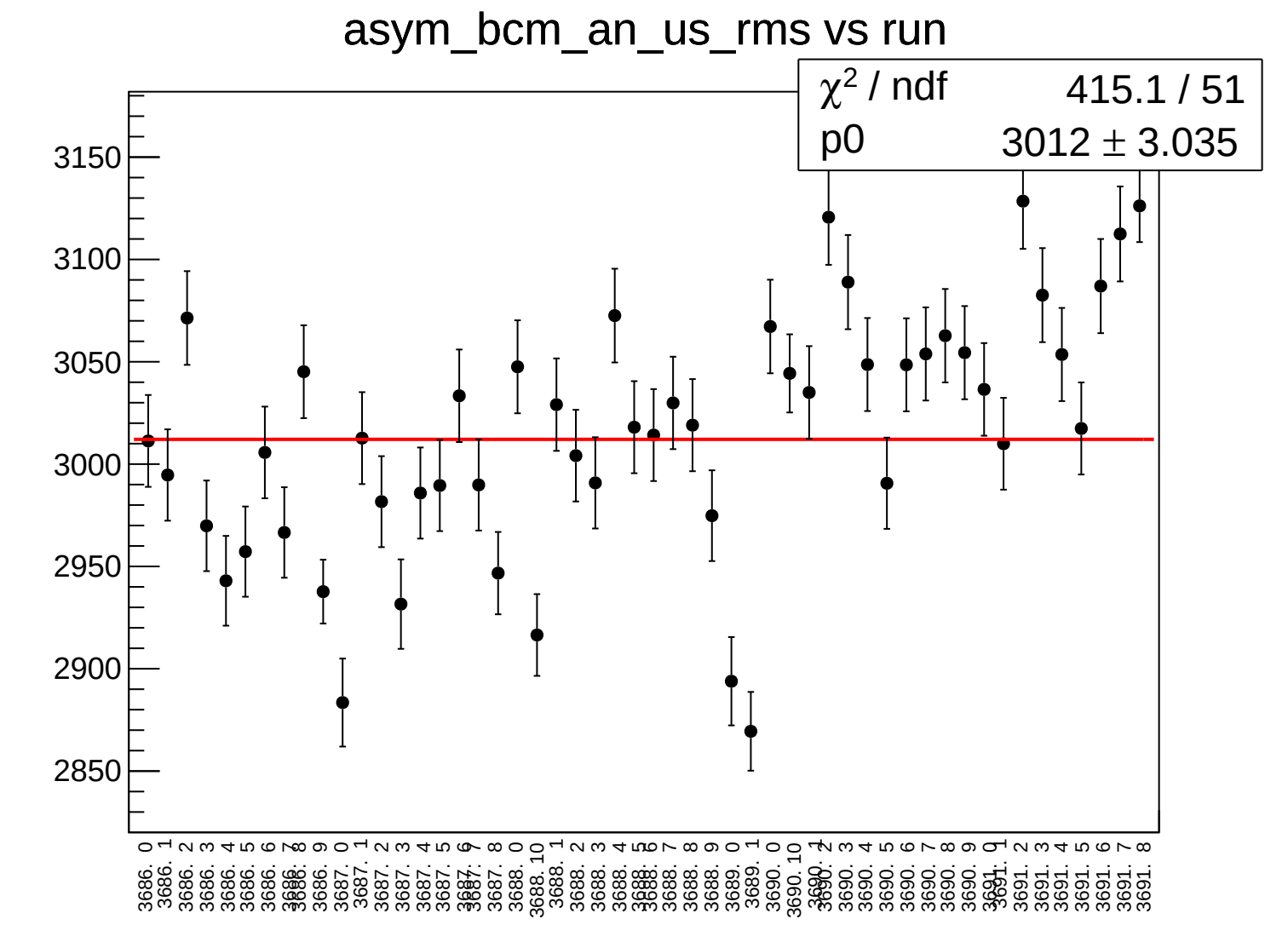
3691. 7
3691. 8


asym_bcm_an_us_mean vs run
×10^3
χ² / ndf 41.13 / 51
p0 415.9 ± 4293
pull
Entries 52
Mean −330.5
Std Dev 355.3


pull1D
Entries 52
Mean 0.004864
Std Dev 0.8893


asym_bcm_an_us_rms vs run
χ^2 / ndf 415.1 / 51
p0 3012 ± 3.035
3150
3100
3050
3000
2950
2900
2850
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
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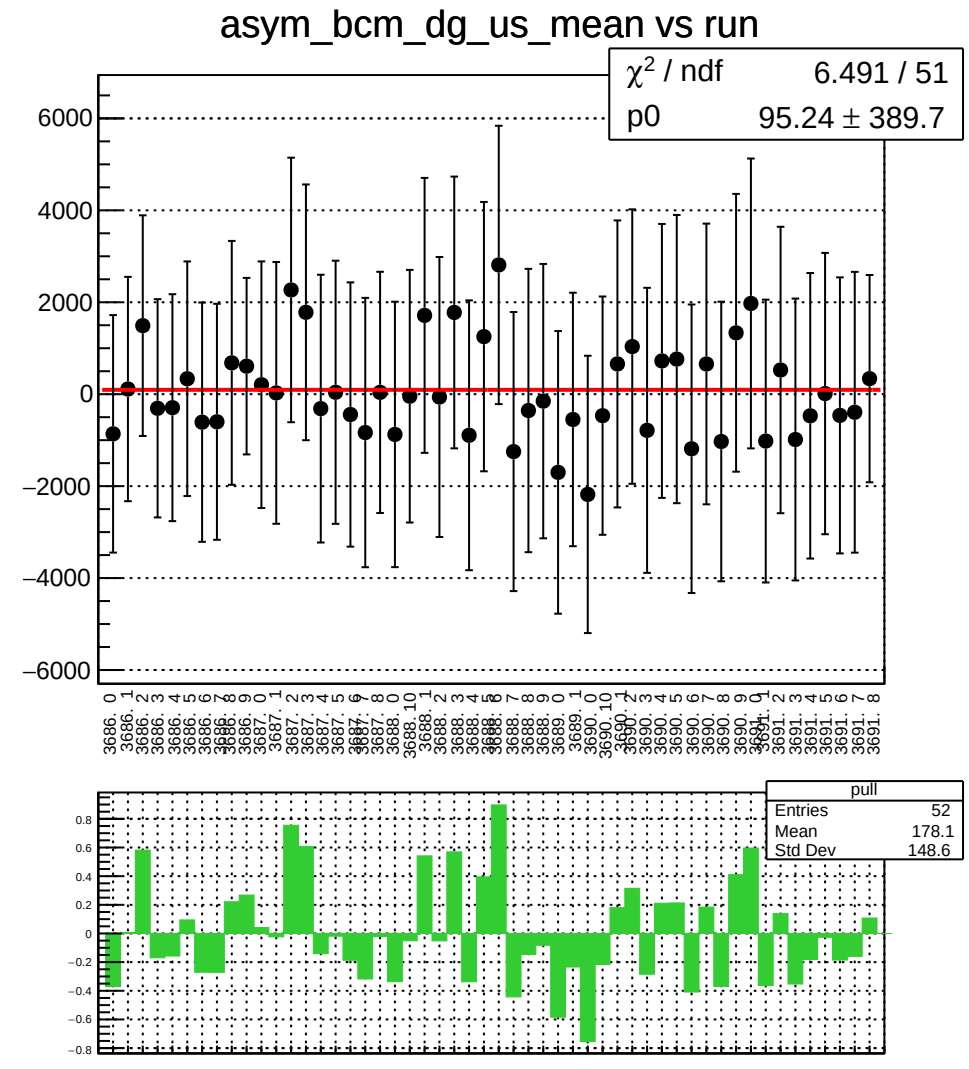
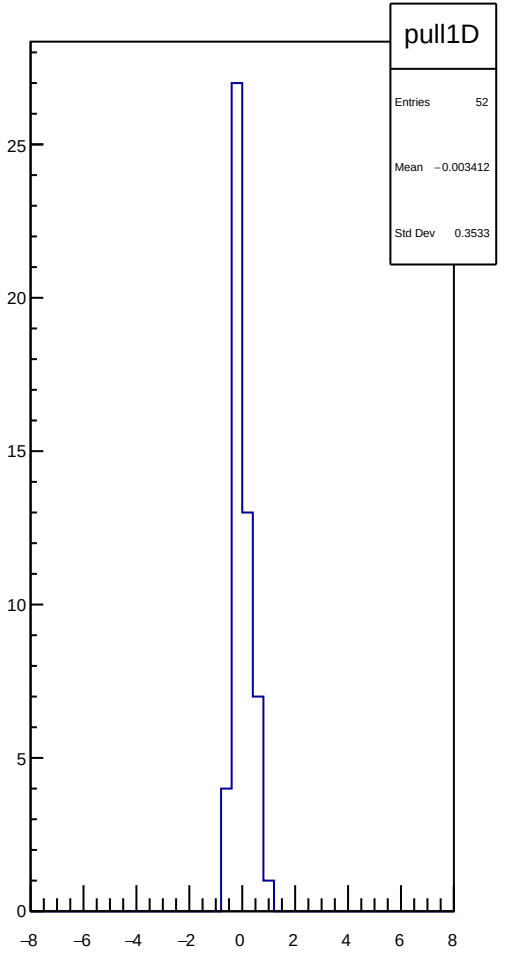
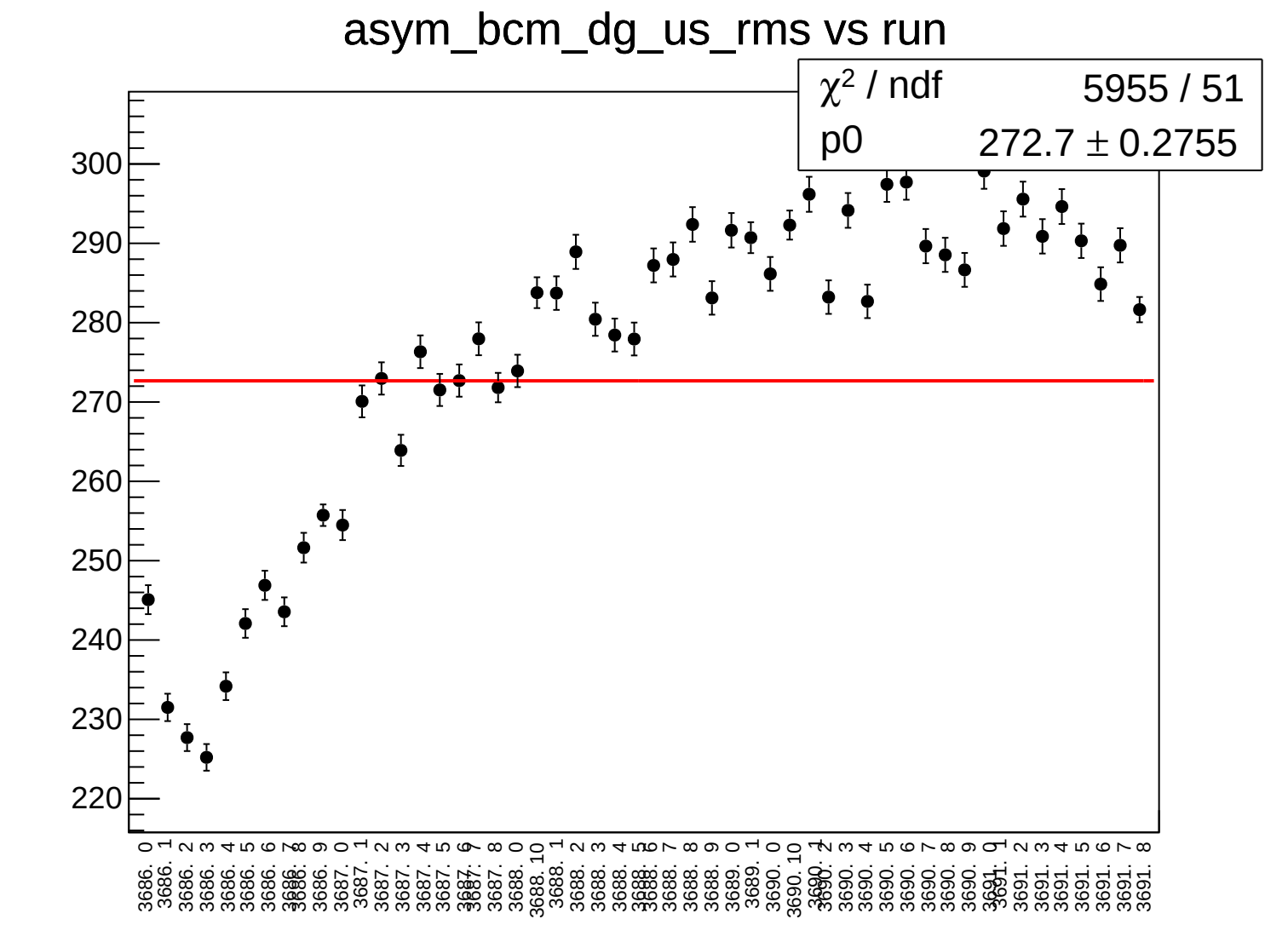
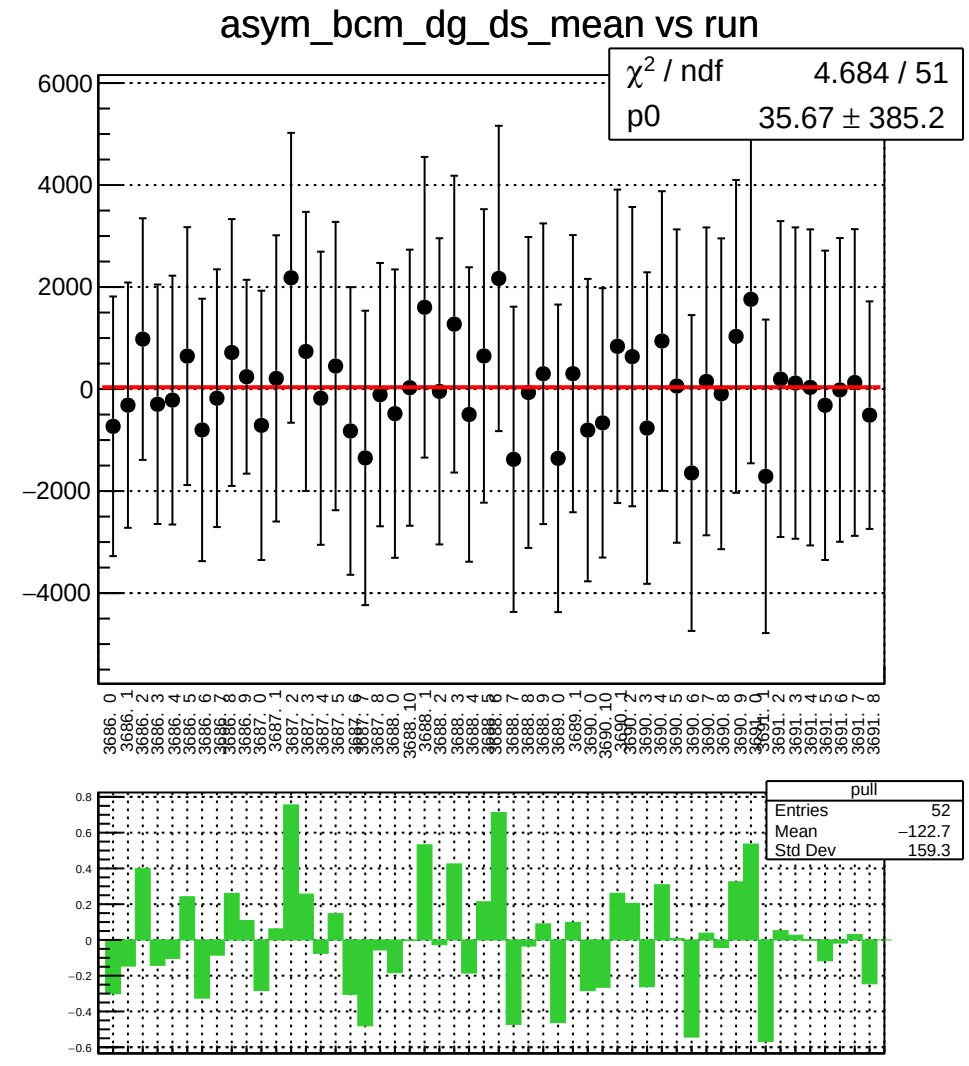
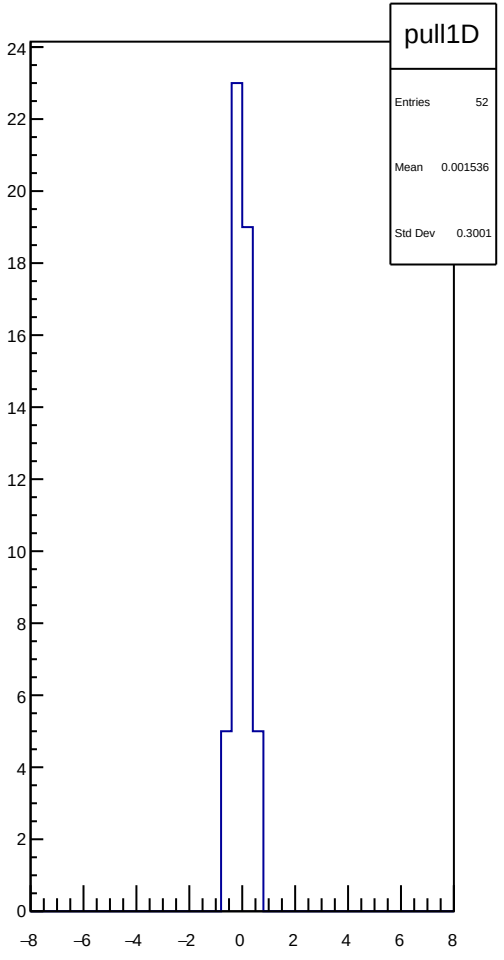
3691. 7
3691. 8

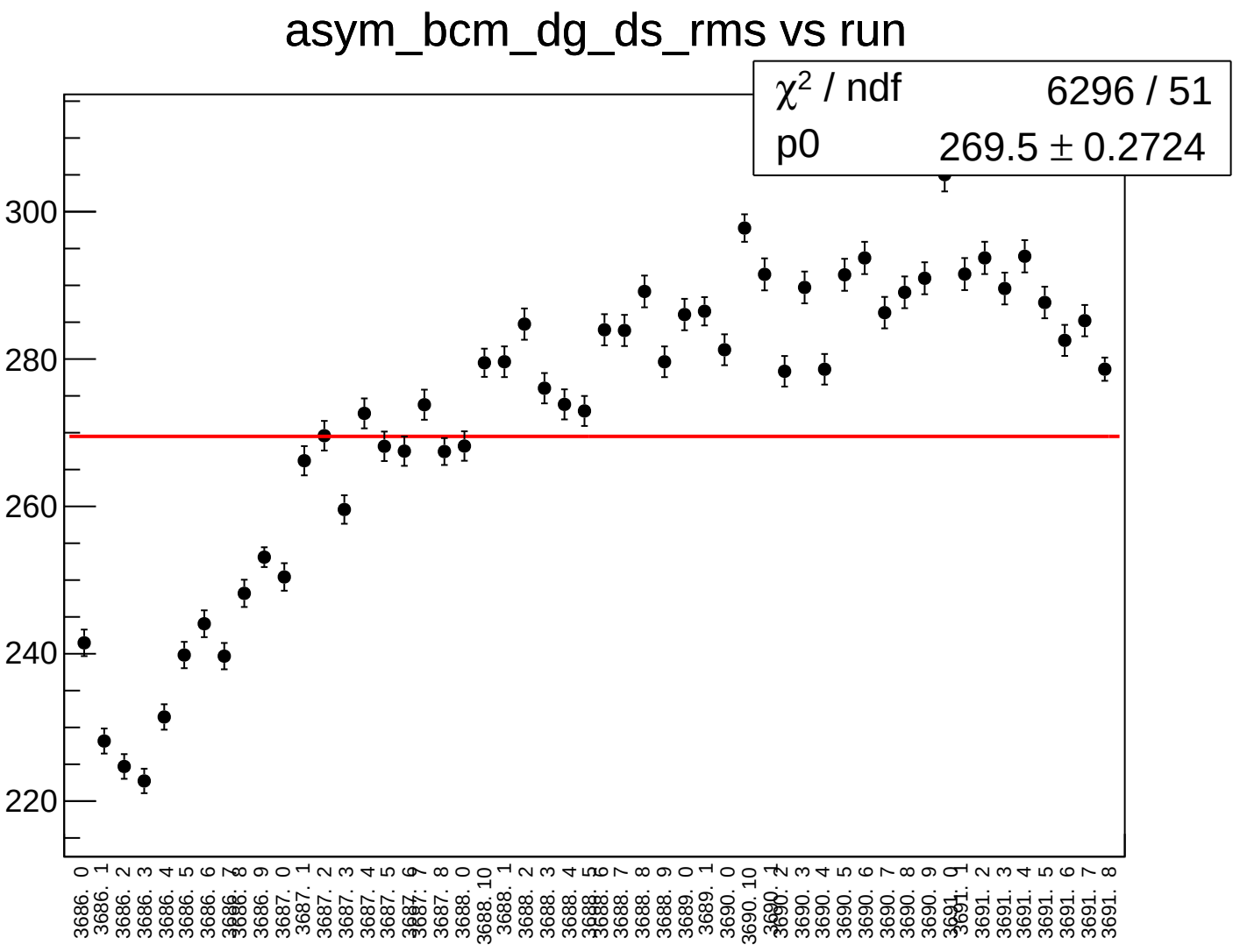

asym_bcm_dg_us_mean vs run
χ² / ndf 6.491 / 51
p0 95.24 ± 389.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 52
Mean 178.1
Std Dev 148.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 52
Mean −0.003412
Std Dev 0.3533
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_rms vs run
χ² / ndf 5955 / 51
p0 272.7 ± 0.2755
300
290
280
270
260
250
240
230
220
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


asym_bcm_dg_ds_mean vs run
χ² / ndf 4.684 / 51
p0 35.67 ± 385.2
pull
Entries 52
Mean −122.7
Std Dev 159.3


pull1D
Entries 52
Mean 0.001536
Std Dev 0.3001


asym_bcm_dg_ds_rms vs run
χ² / ndf 6296 / 51
p0 269.5 ± 0.2724
300
280
260
240
220
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
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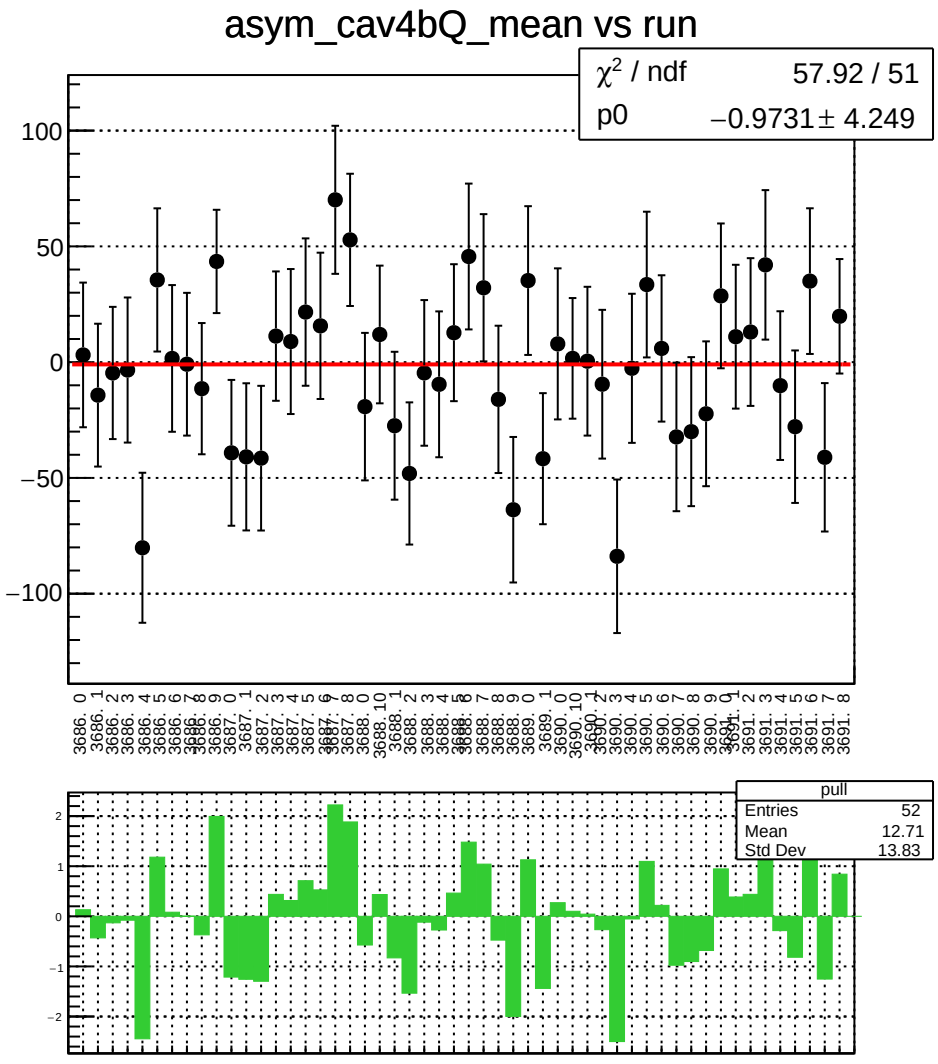
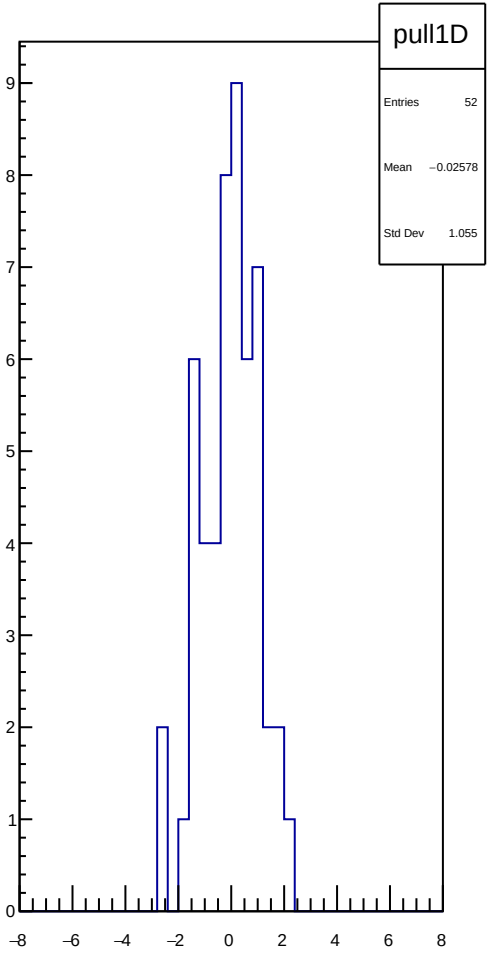
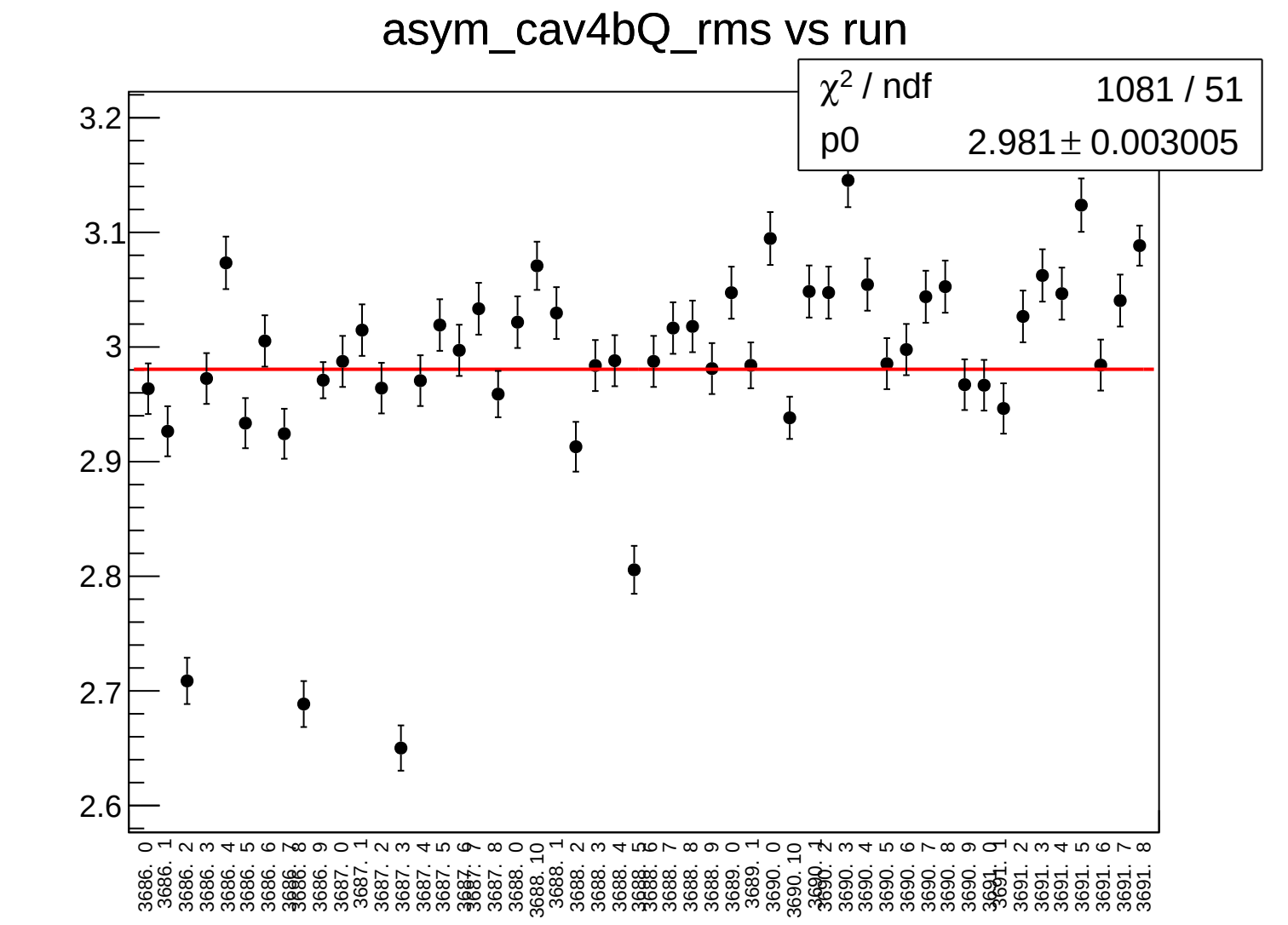
3691. 7
3691. 8


asym_cav4bQ_mean vs run
χ² / ndf 57.92 / 51
p0 −0.9731 ± 4.249
100
50
0
−50
−100
pull
Entries 52
Mean 12.71
Std Dev 13.83
2
1
0
−1
−2


pull1D
Entries 52
Mean −0.02578
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4bQ_rms vs run
χ^2 / ndf 1081 / 51
p0 2.981 ± 0.003005
3.2
3.1
3
2.9
2.8
2.7
2.6
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
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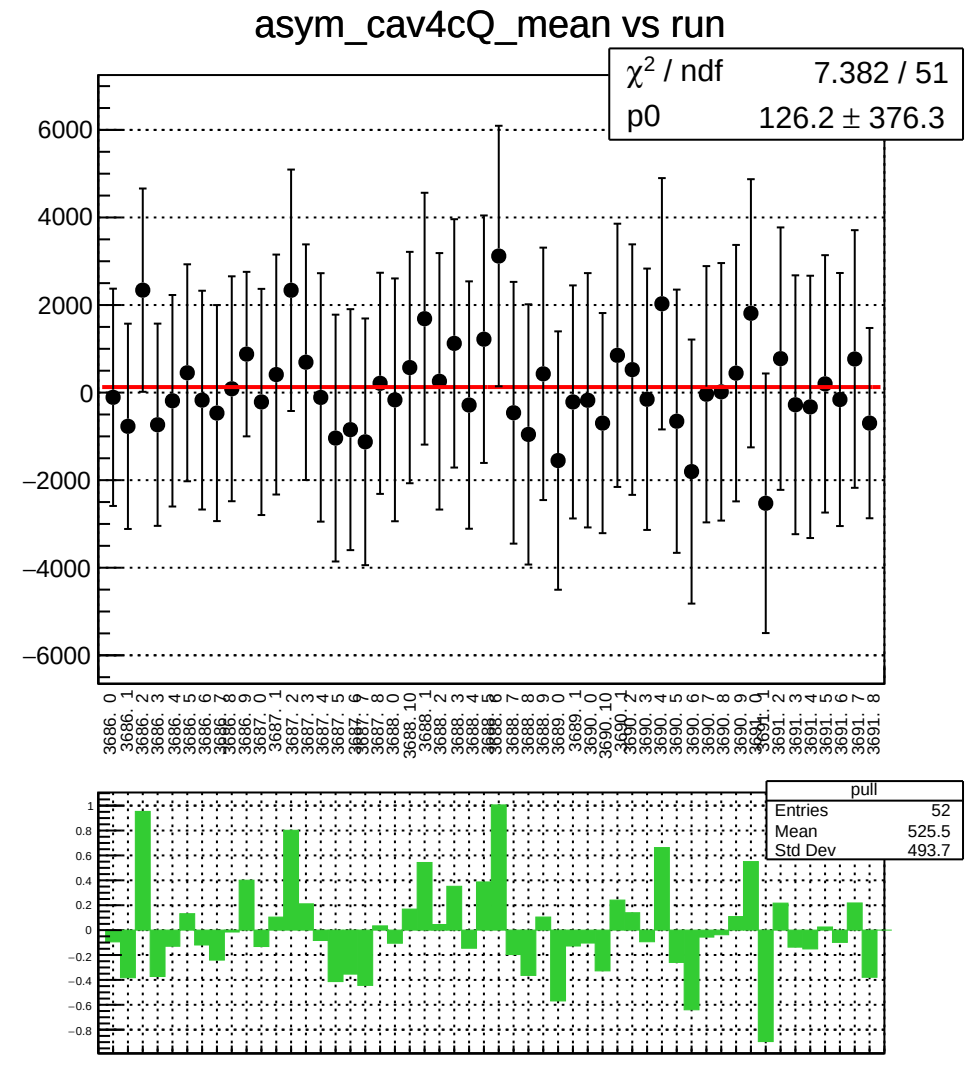
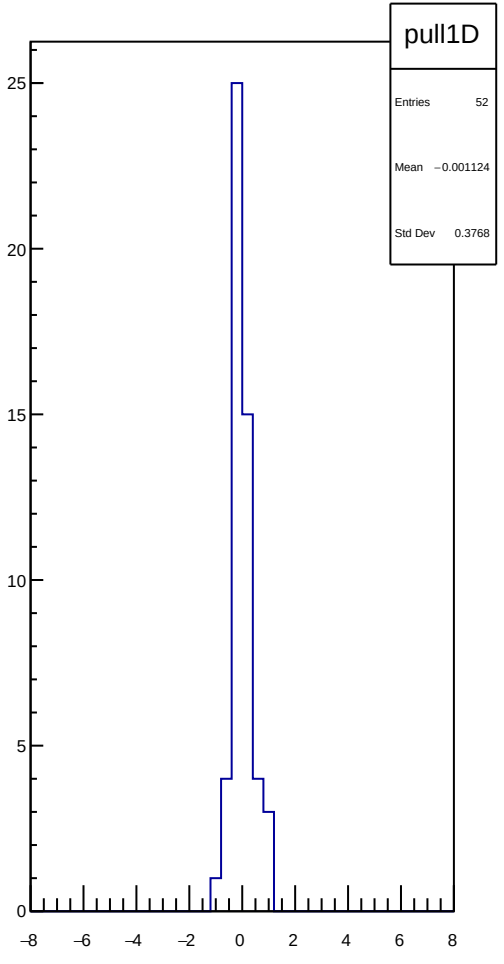
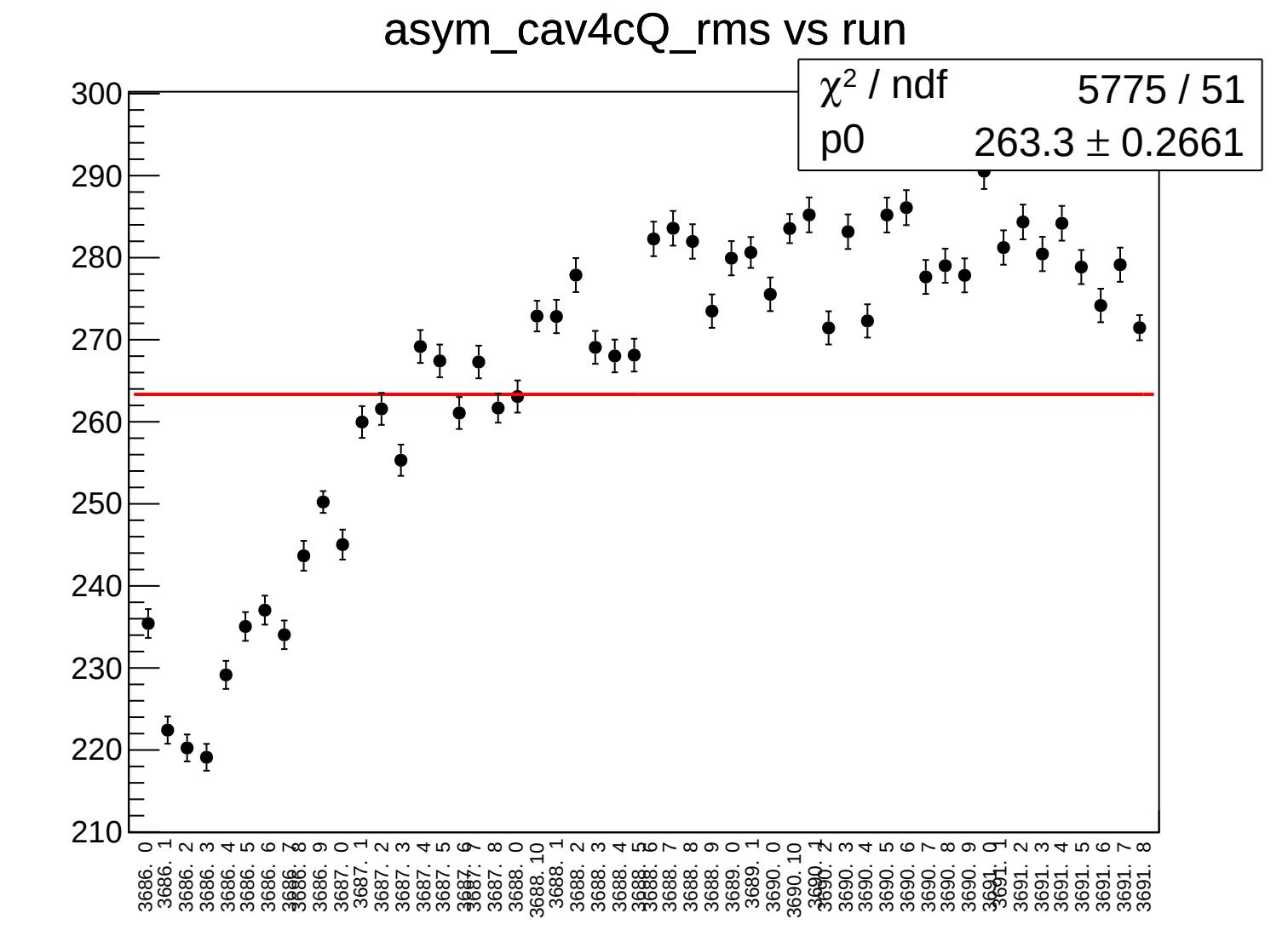
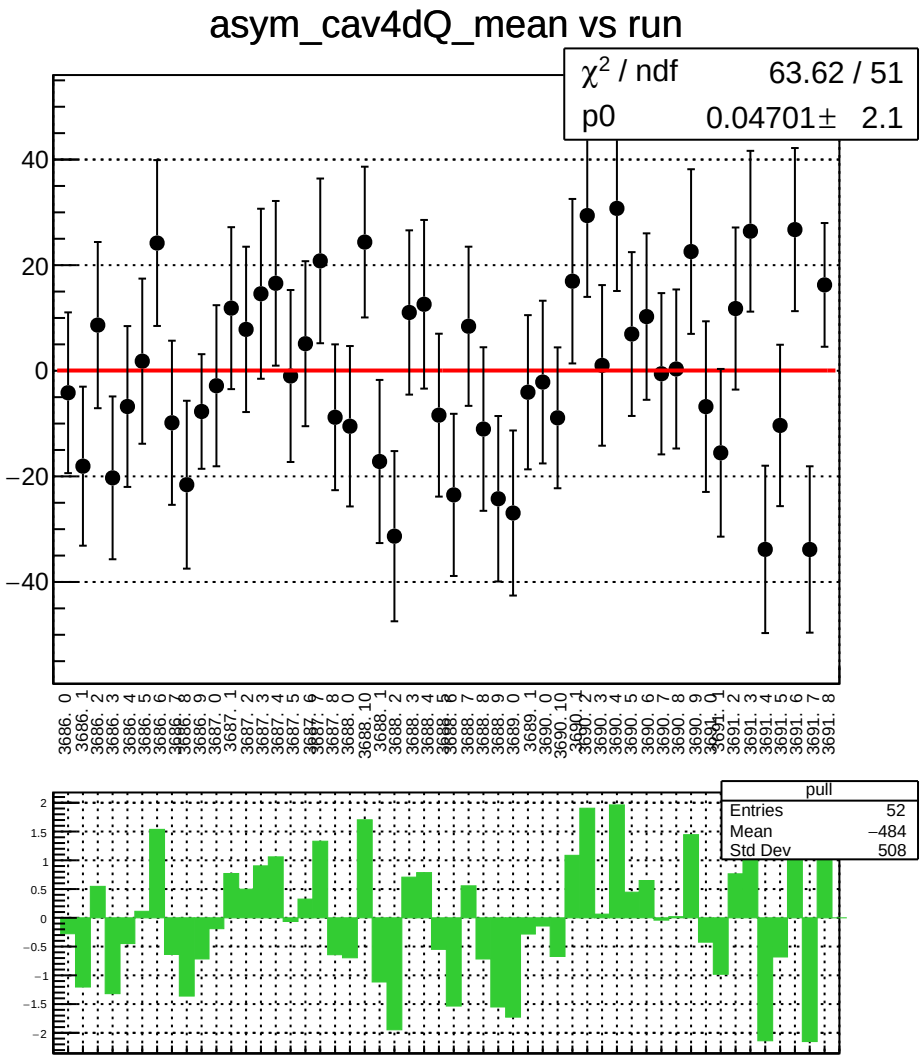
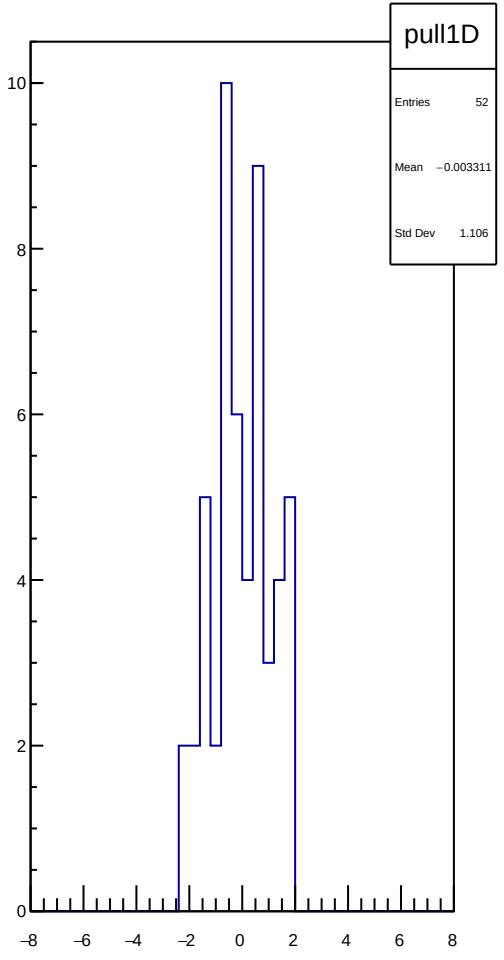
3691. 7
3691. 8

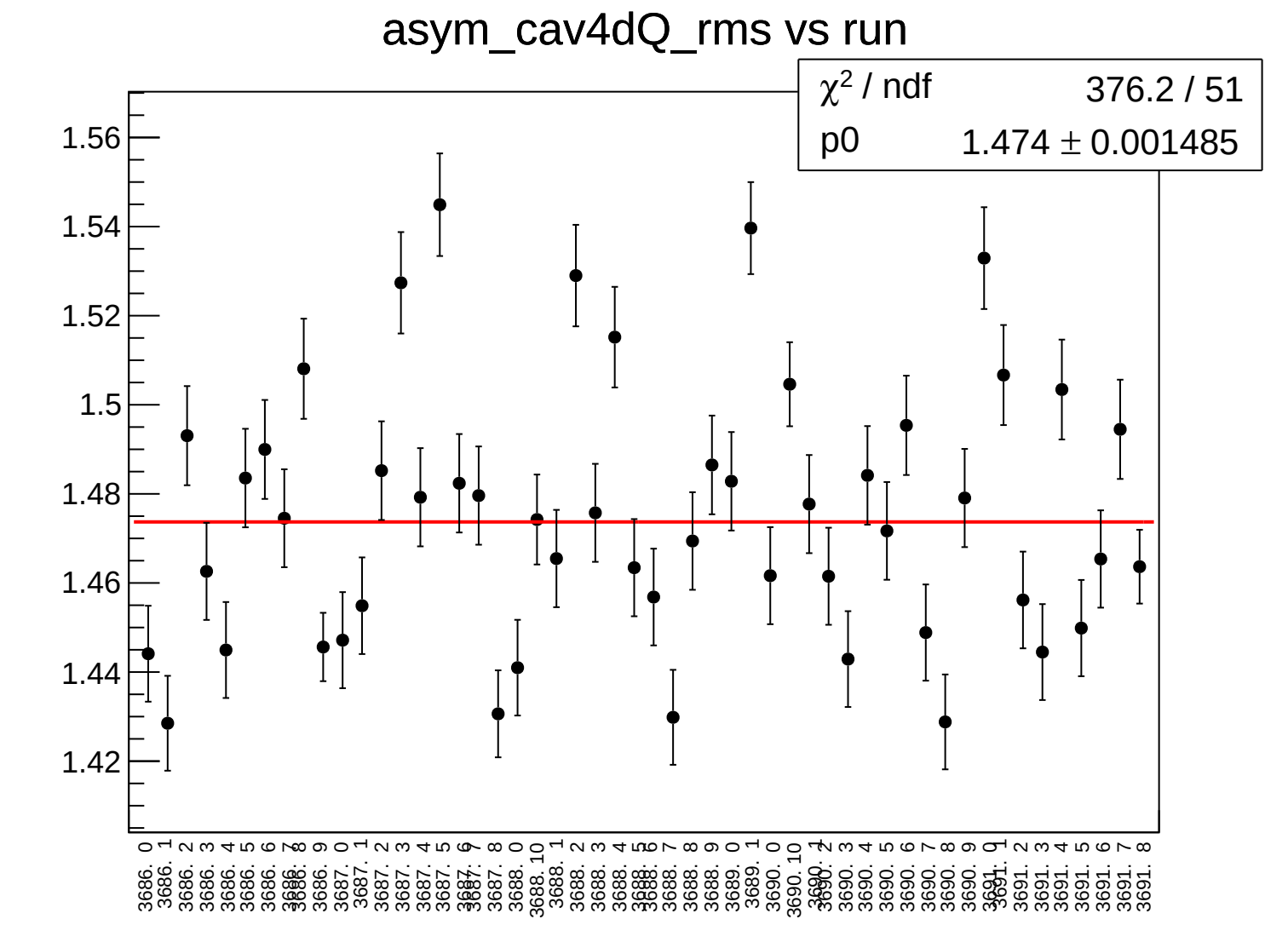

asym_cav4cQ_mean vs run
χ^2 / ndf 7.382 / 51
p0 126.2 ± 376.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 52
Mean 525.5
Std Dev 493.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 52
Mean −0.001124
Std Dev 0.3768
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4cQ_rms vs run
χ² / ndf 5775 / 51
p0 263.3 ± 0.2661
300
290
280
270
260
250
240
230
220
210
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


asym_cav4dQ_mean vs run
χ² / ndf 63.62 / 51
p0 0.04701± 2.1
pull
Entries 52
Mean −484
Std Dev 508


pull1D
Entries 52
Mean −0.003311
Std Dev 1.106


asym_cav4dQ_rms vs run
χ^2 / ndf 376.2 / 51
p0 1.474 ± 0.001485
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
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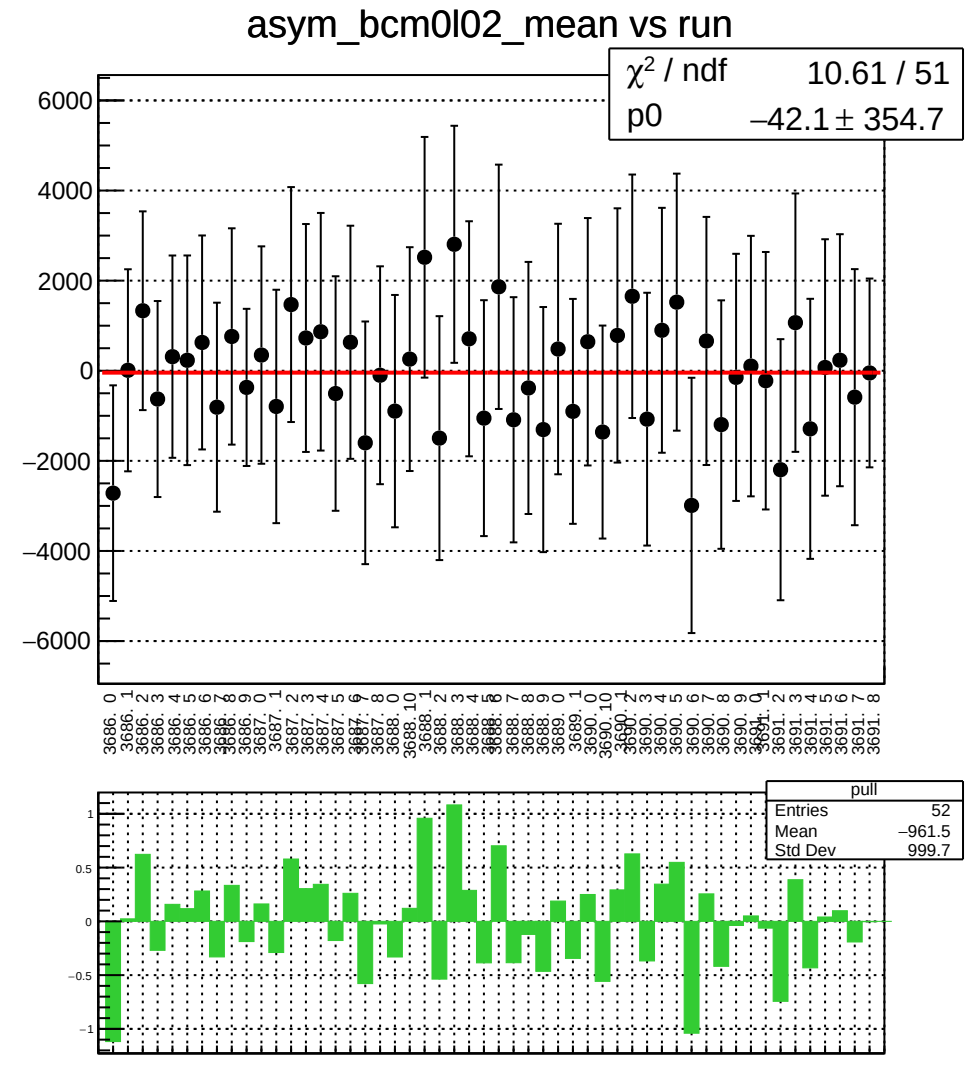
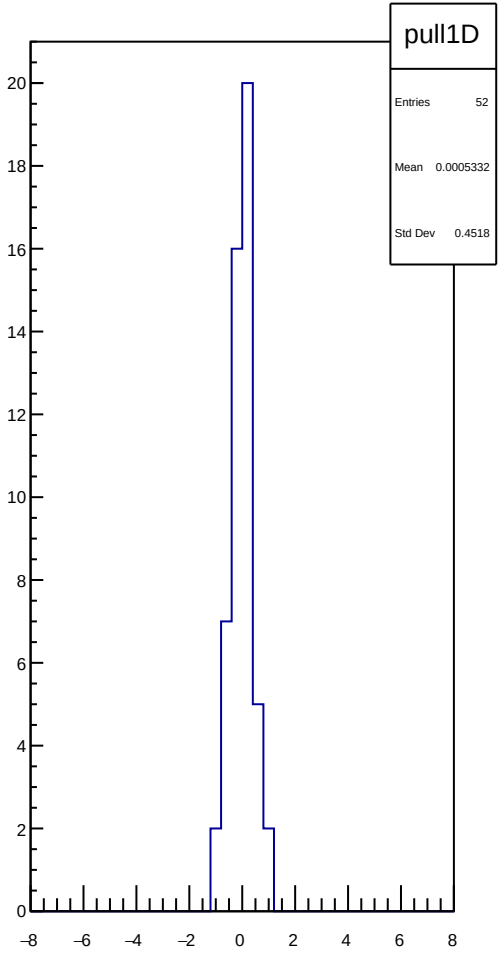
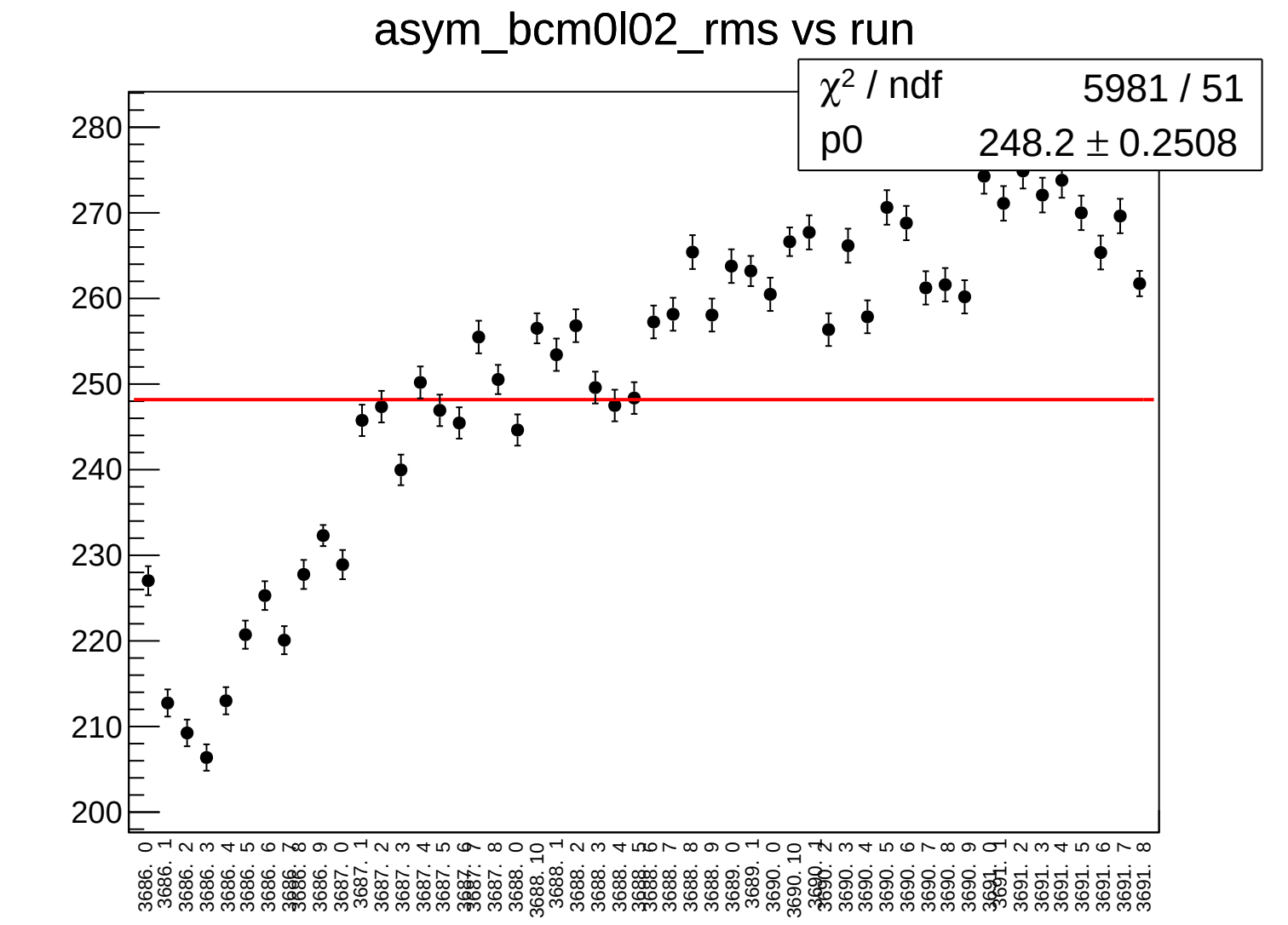
3691. 8


asym_bcm0l02_mean vs run
χ² / ndf 10.61 / 51
p0 −42.1 ± 354.7
pull
Entries 52
Mean −961.5
Std Dev 999.7


pull1D
Entries 52
Mean 0.0005332
Std Dev 0.4518


asym_bcm0l02_rms vs run
χ^2 / ndf 5981 / 51
p0 248.2 ± 0.2508
280
270
260
250
240
230
220
210
200
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
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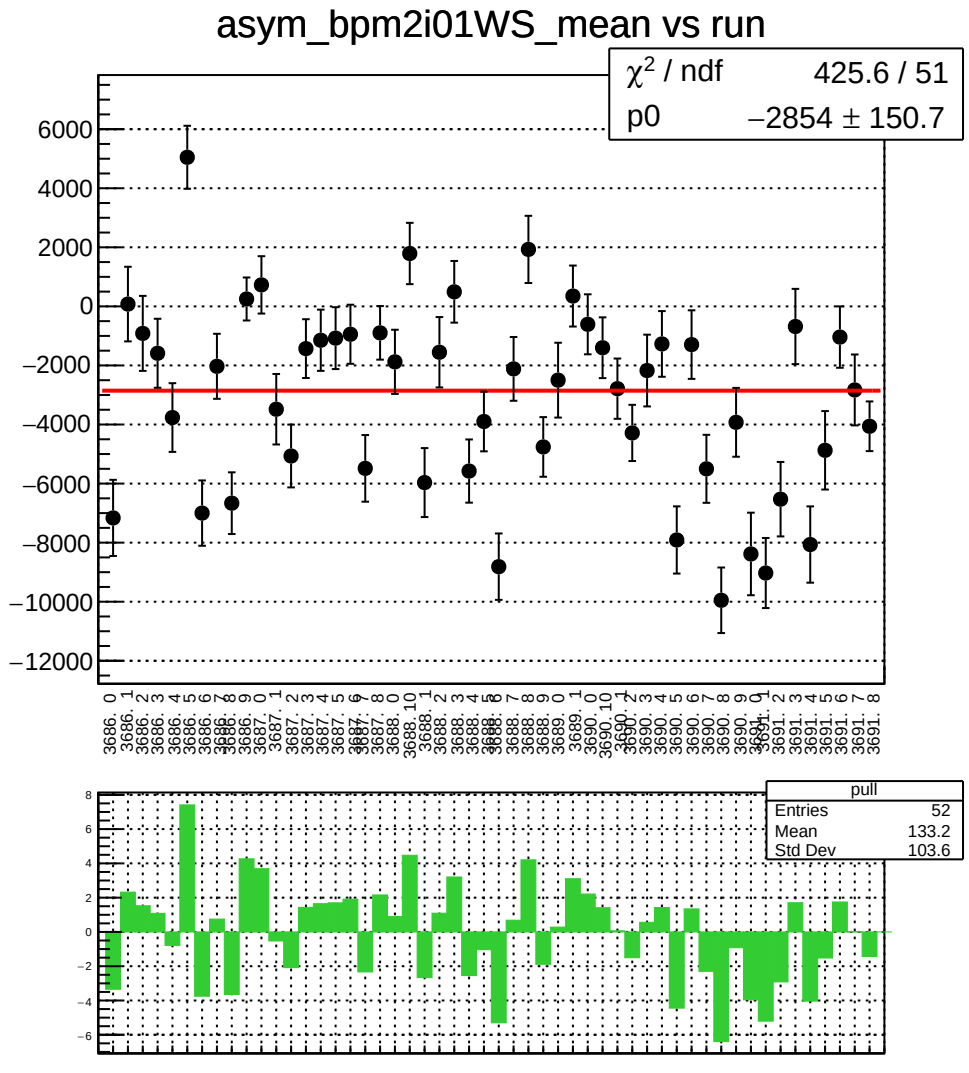
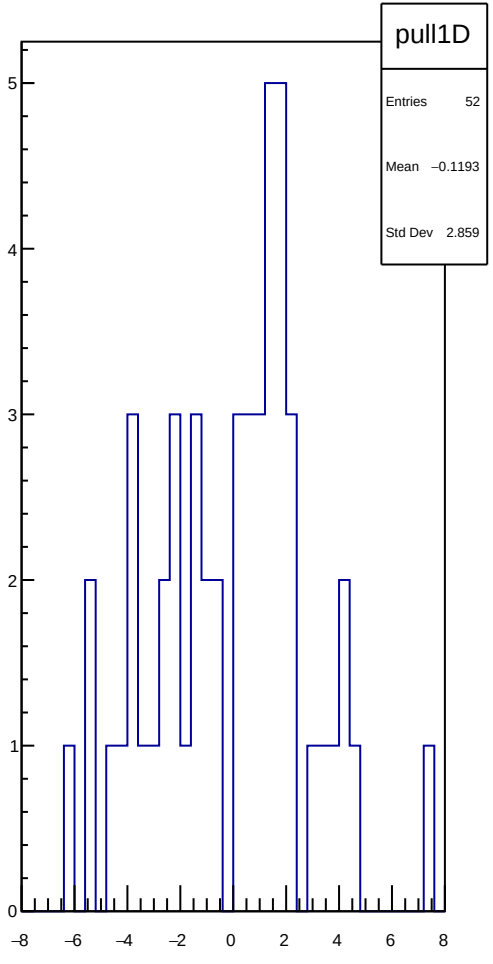
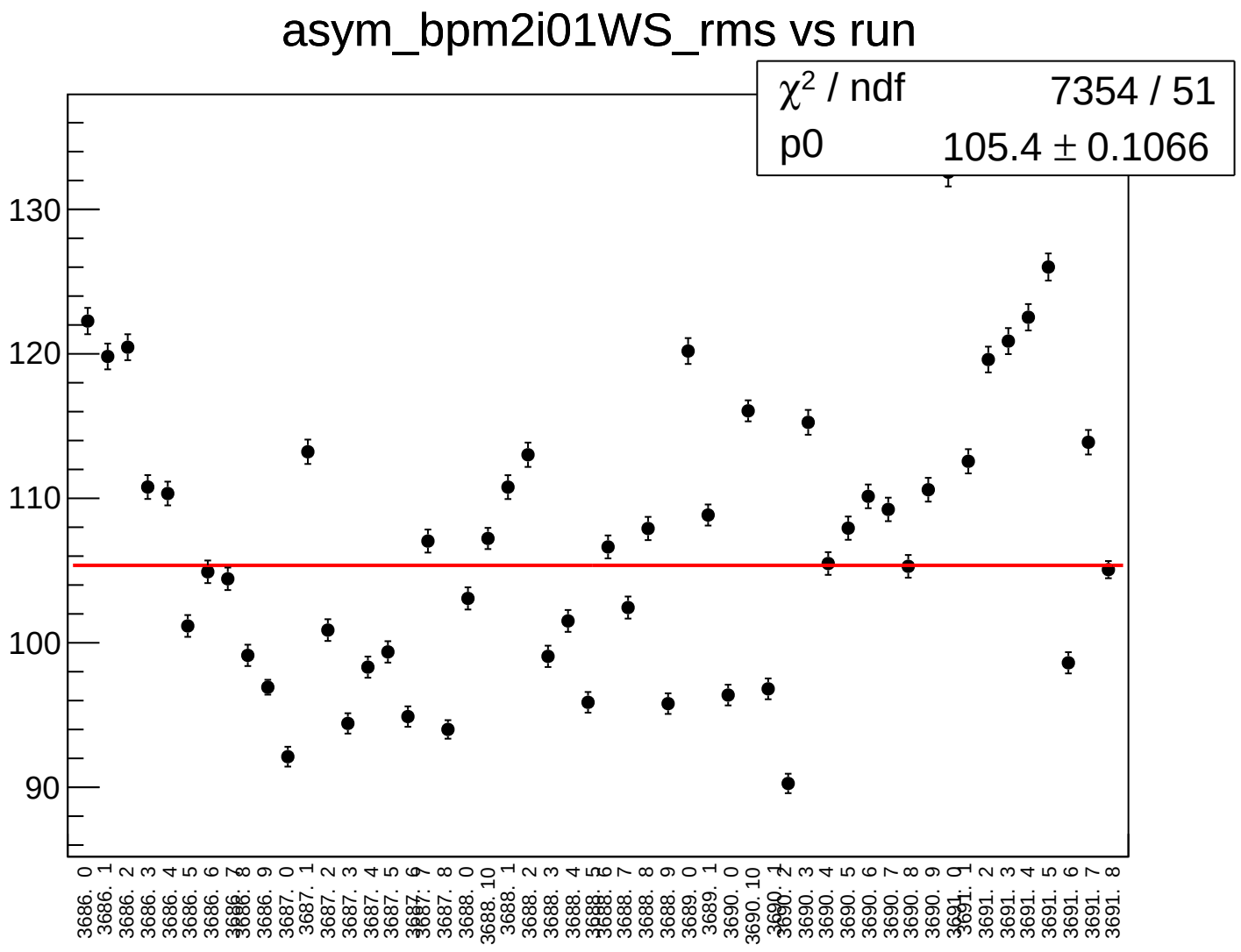

asym_bpm2i01WS_mean vs run
χ² / ndf 425.6 / 51
p0 −2854 ± 150.7
pull
Entries 52
Mean 133.2
Std Dev 103.6


pull1D
Entries 52
Mean −0.1193
Std Dev 2.859


asym_bpm2i01WS_rms vs run
χ² / ndf 7354 / 51
p0 105.4 ± 0.1066
130
120
110
100
90
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
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3691. 5
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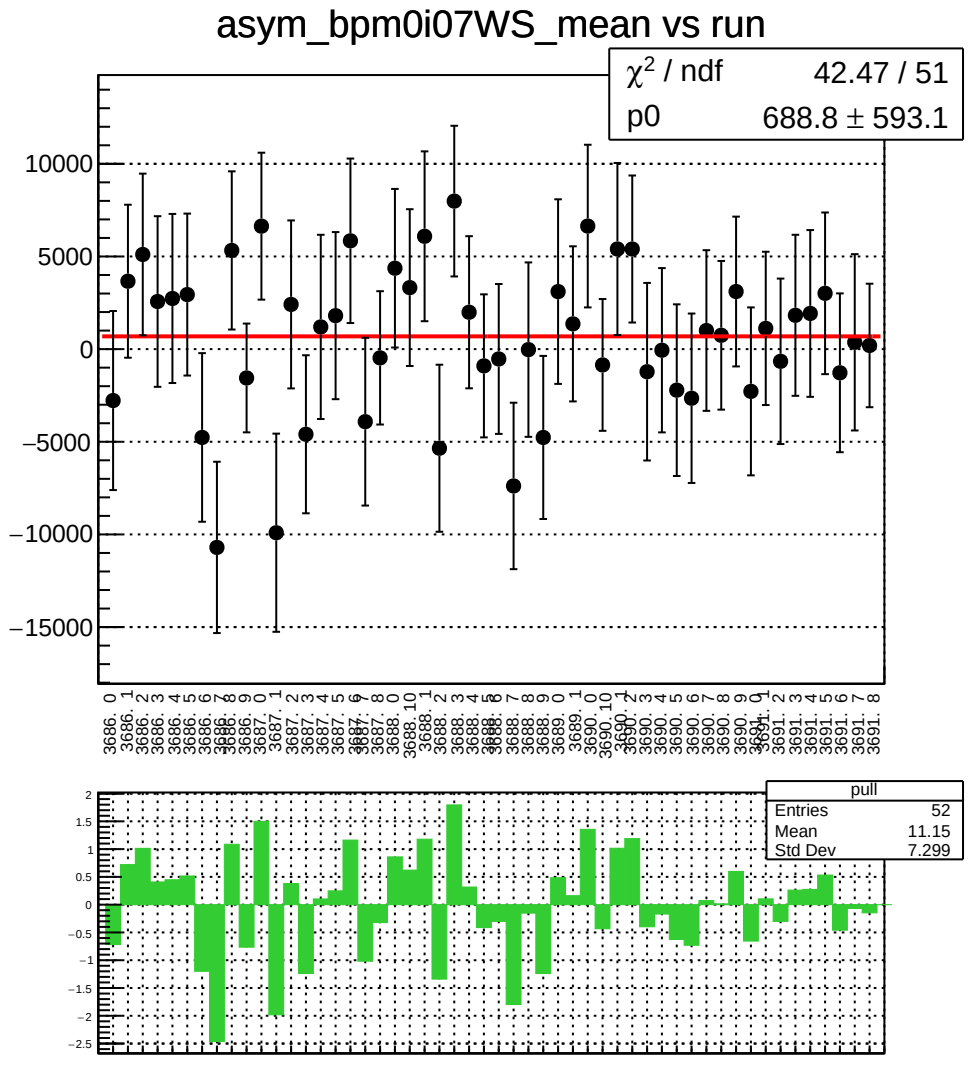
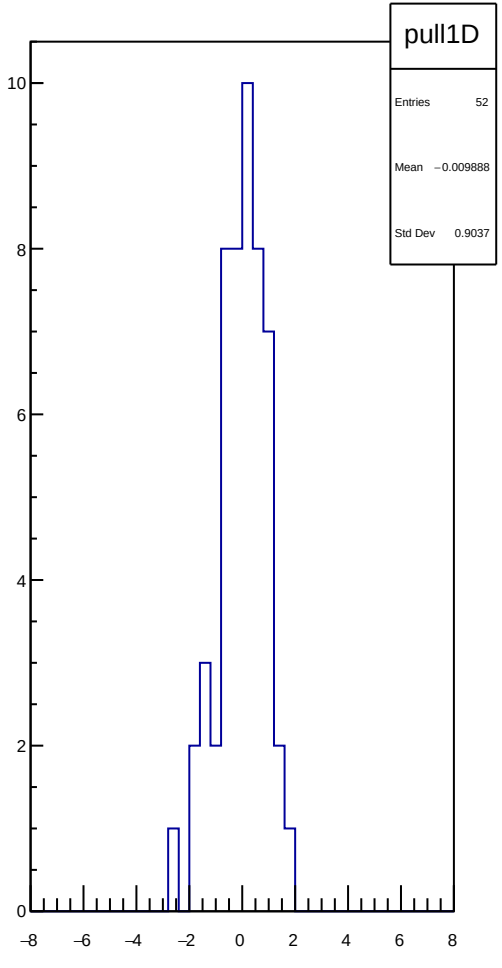
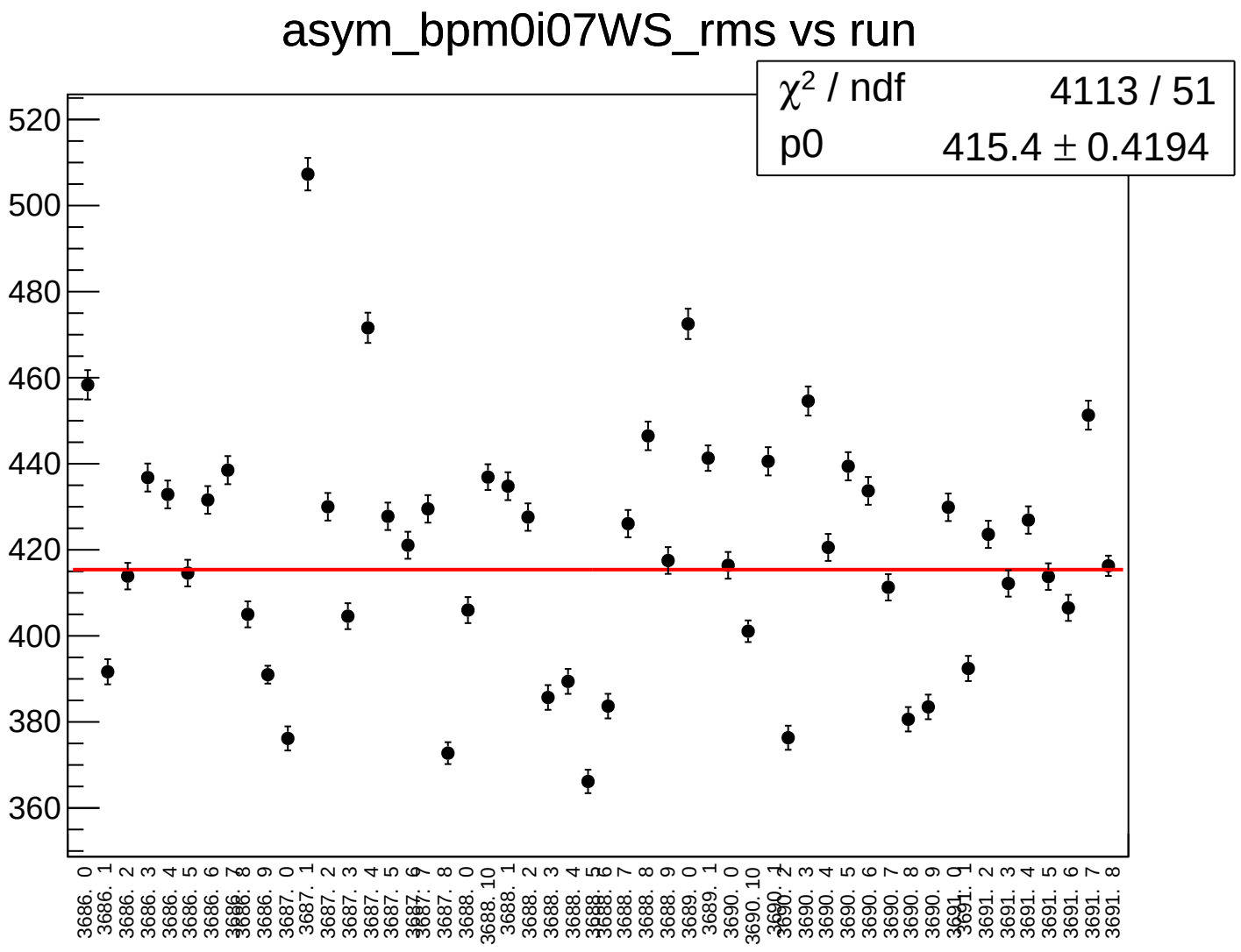
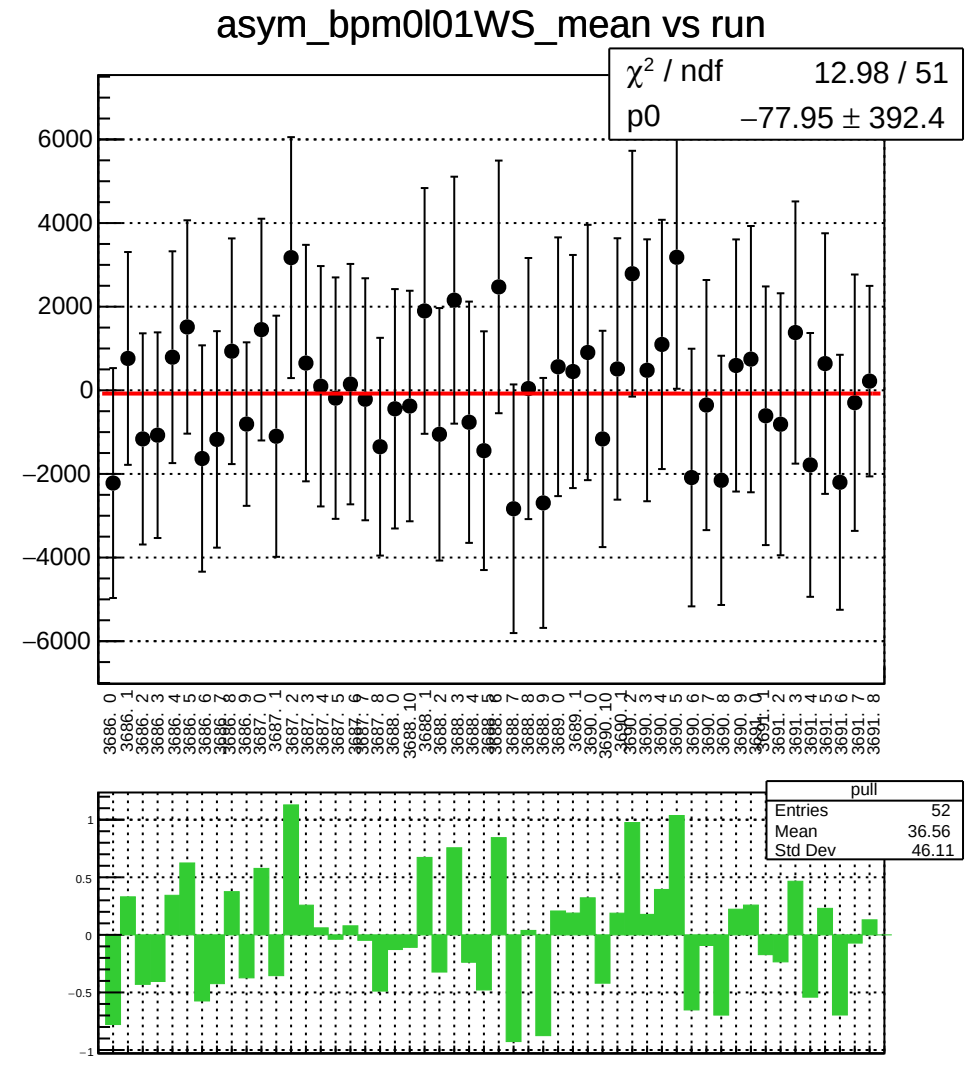
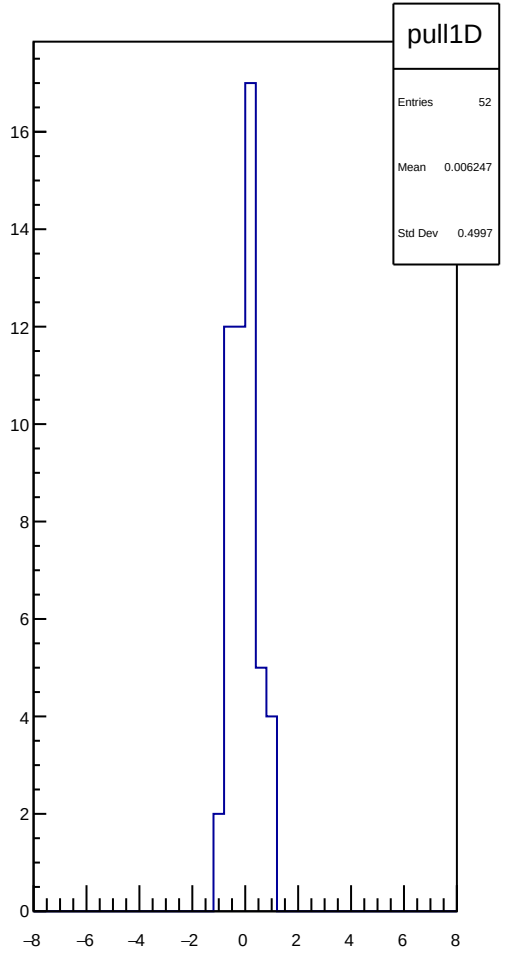
3691. 7
3691. 8

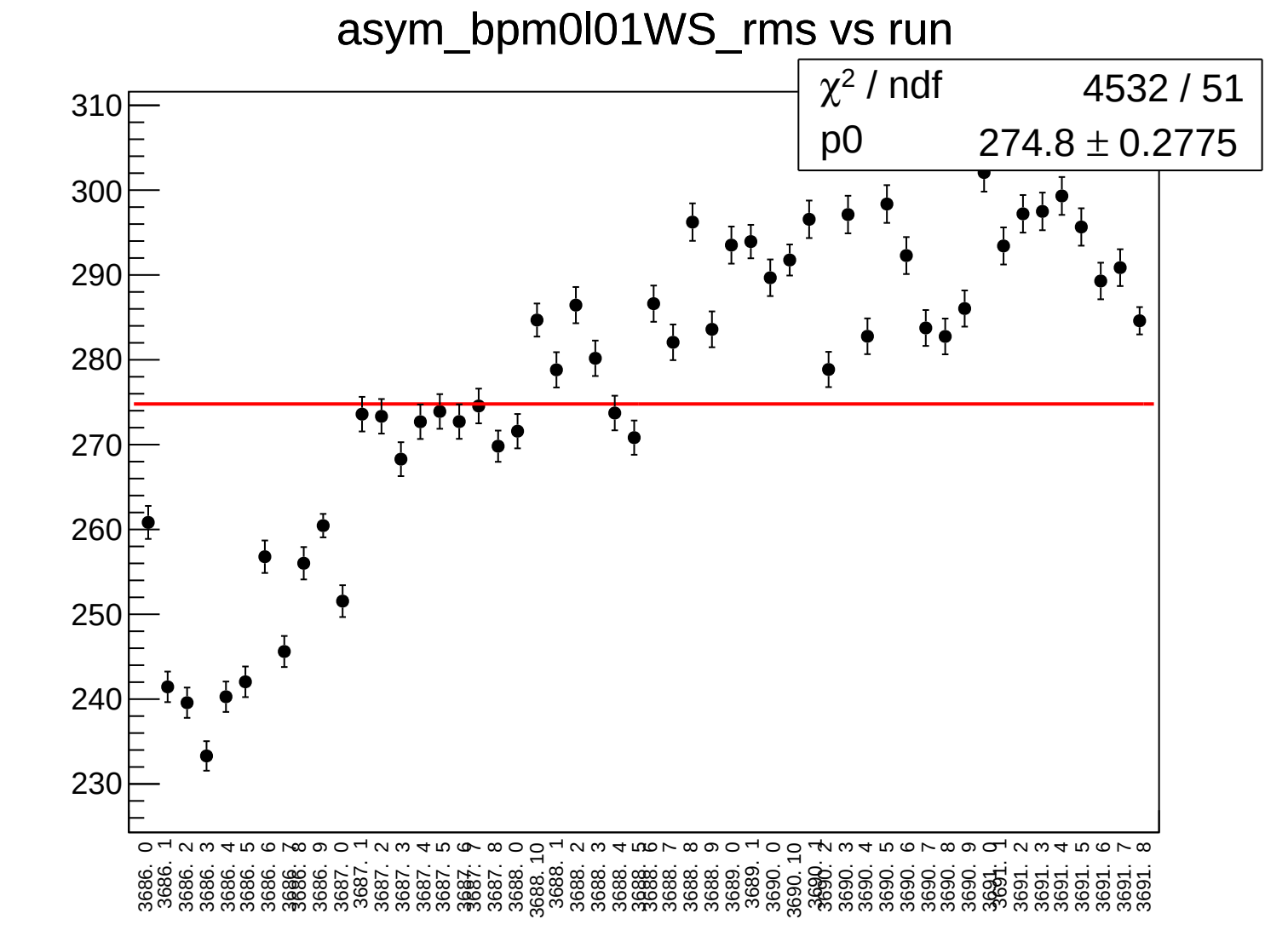

asym_bpm0i07WS_mean vs run
χ² / ndf 42.47 / 51
p0 688.8 ± 593.1
pull
Entries 52
Mean 11.15
Std Dev 7.299

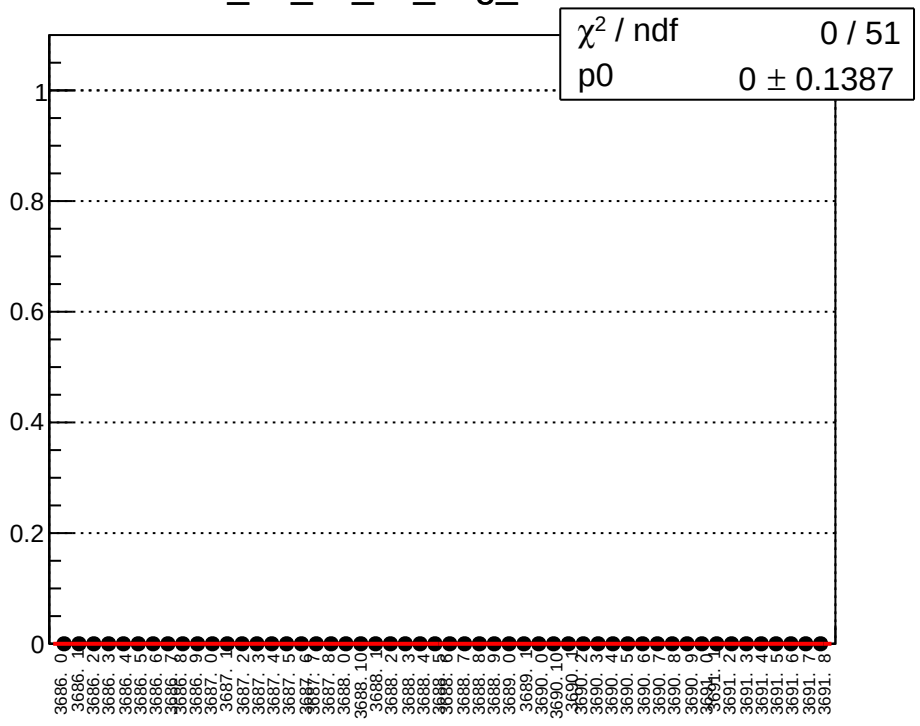

pull1D
Entries 52
Mean −0.009888
Std Dev 0.9037

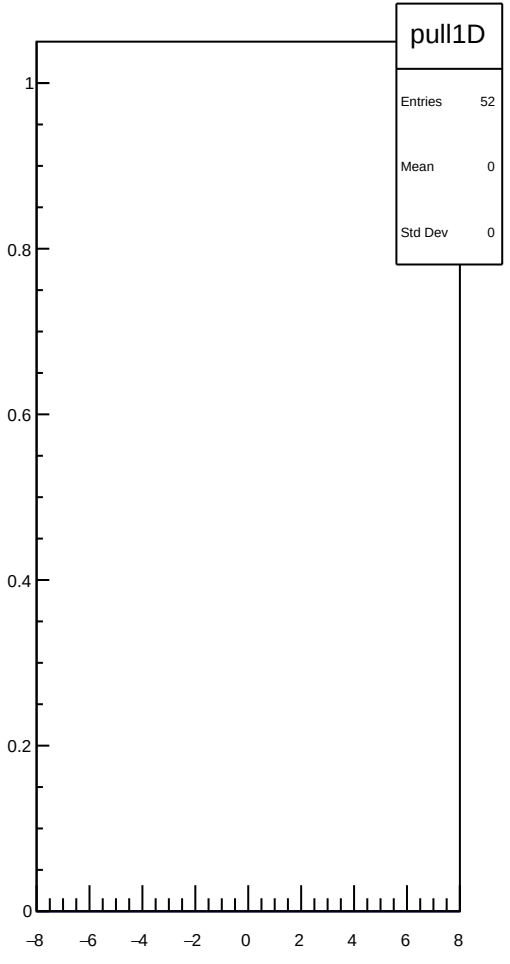

asym_bpm0i07WS_rms vs run
χ² / ndf 4113 / 51
p0 415.4 ± 0.4194
520
500
480
460
440
420
400
380
360
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

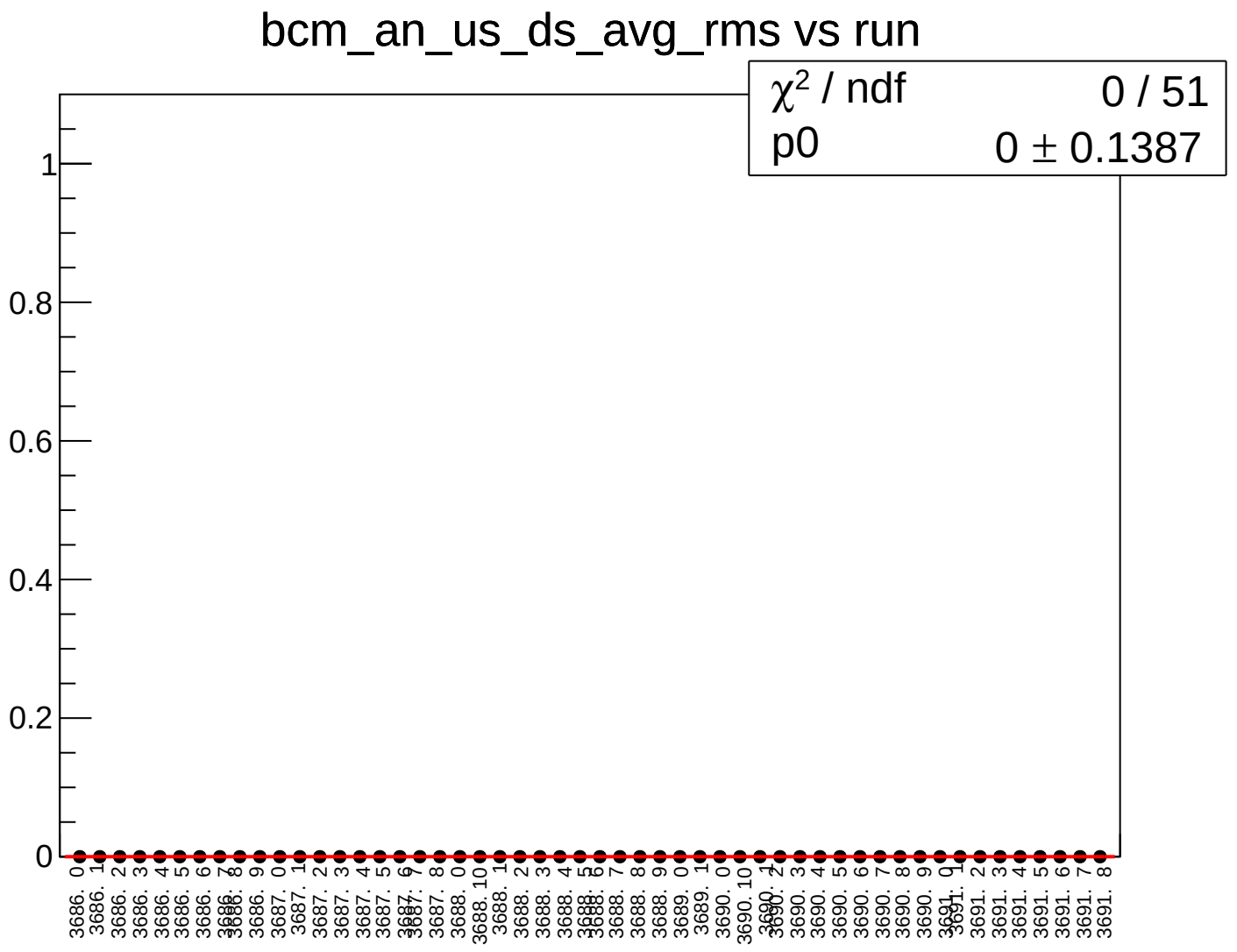

asym_bpm0l01WS_mean vs run
χ² / ndf 12.98 / 51
p0 −77.95 ± 392.4
pull
Entries 52
Mean 36.56
Std Dev 46.11

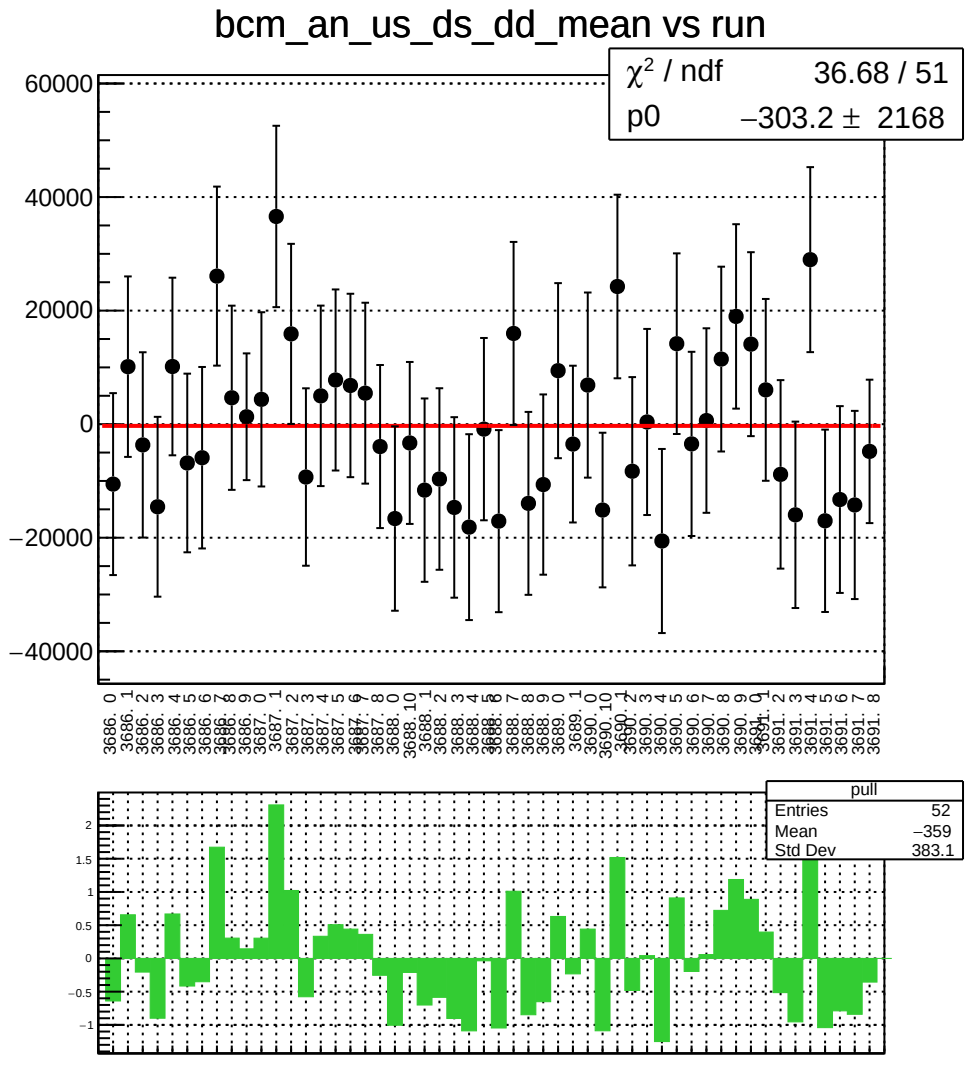

pull1D
Entries 52
Mean 0.006247
Std Dev 0.4997

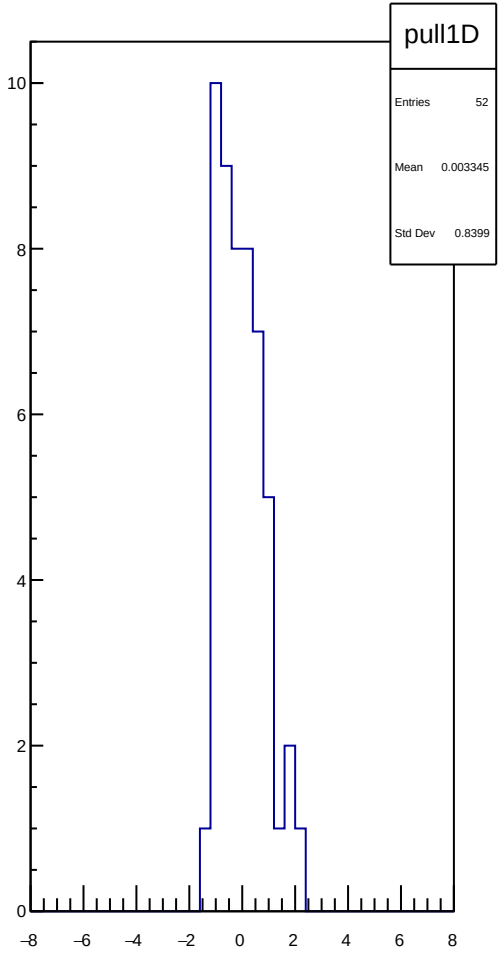

asym_bpm0l01WS_rms vs run
χ² / ndf 4532 / 51
p0 274.8 ± 0.2775
310
300
290
280
270
260
250
240
230
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

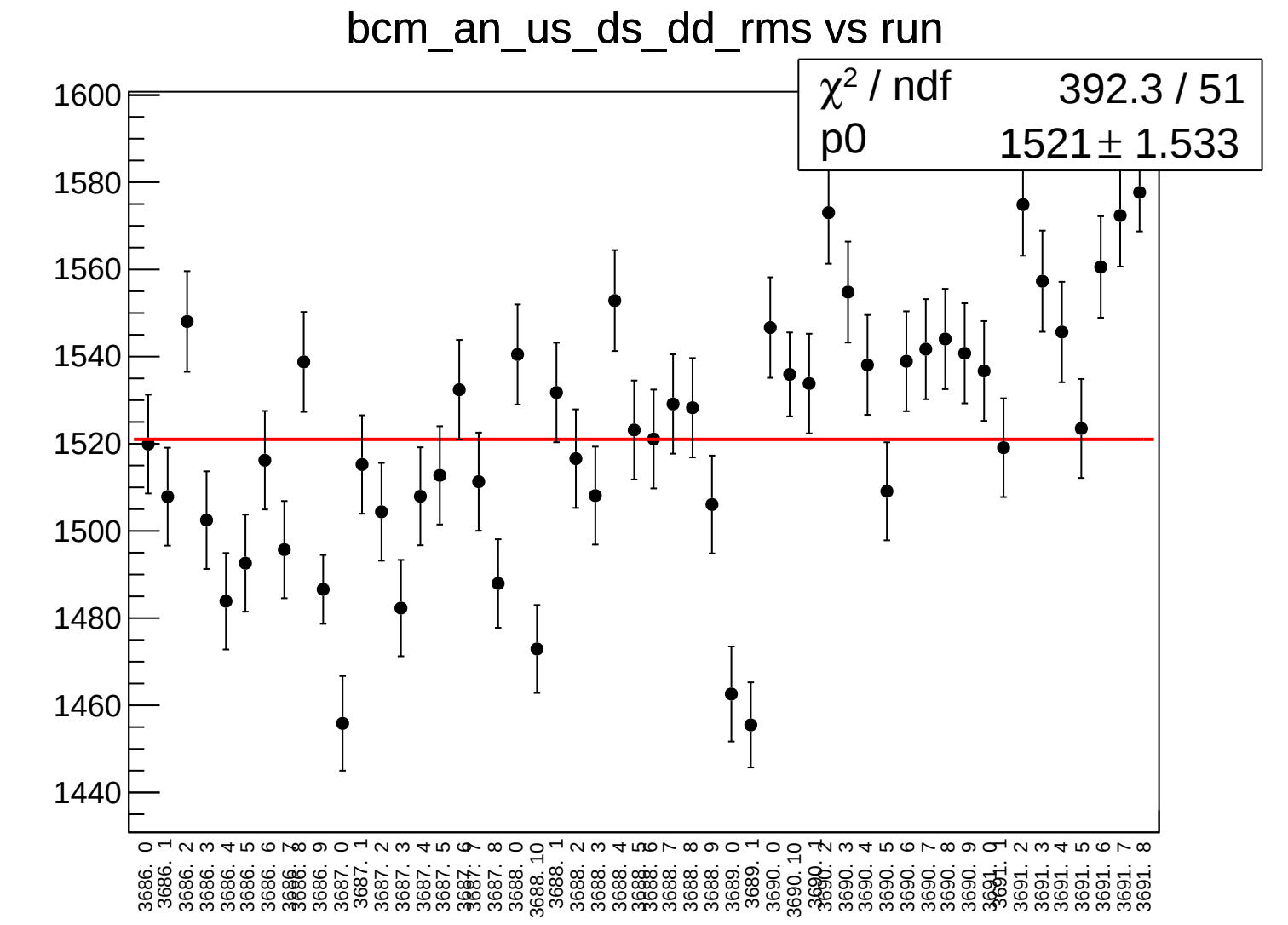

bcm_an_us_ds_avg_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_an_us_ds_avg_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


bcm_an_us_ds_dd_mean vs run
χ² / ndf 36.68 / 51
p0 −303.2 ± 2168
60000
40000
20000
0
−20000
−40000
pull
Entries 52
Mean −359
Std Dev 383.1
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 52
Mean 0.003345
Std Dev 0.8399
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


bcm_an_us_ds_dd_rms vs run
χ² / ndf 392.3 / 51
p0 1521 ± 1.533
1600
1580
1560
1540
1520
1500
1480
1460
1440
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
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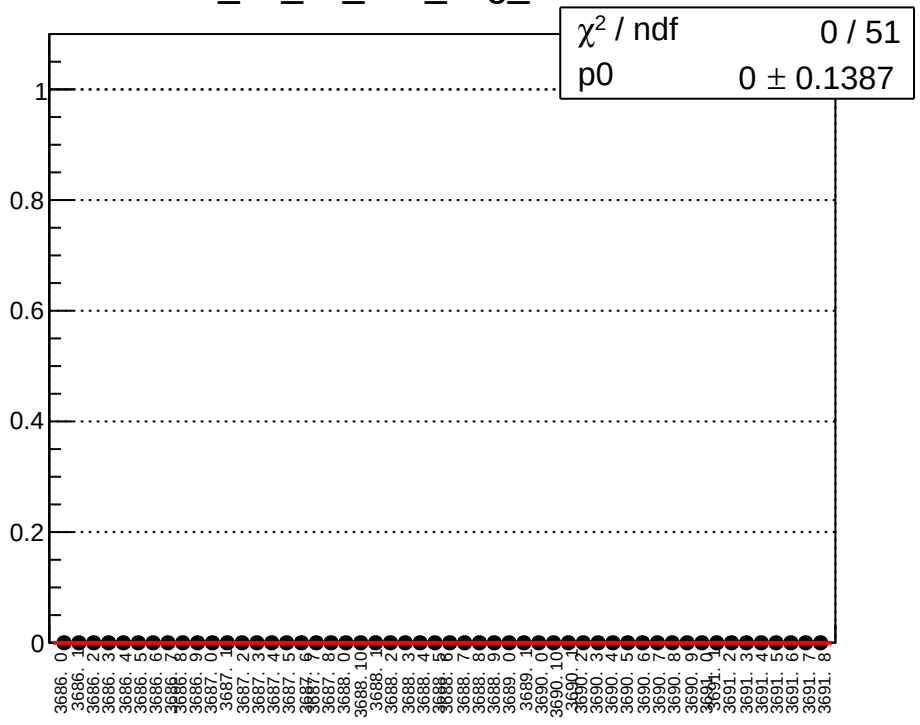
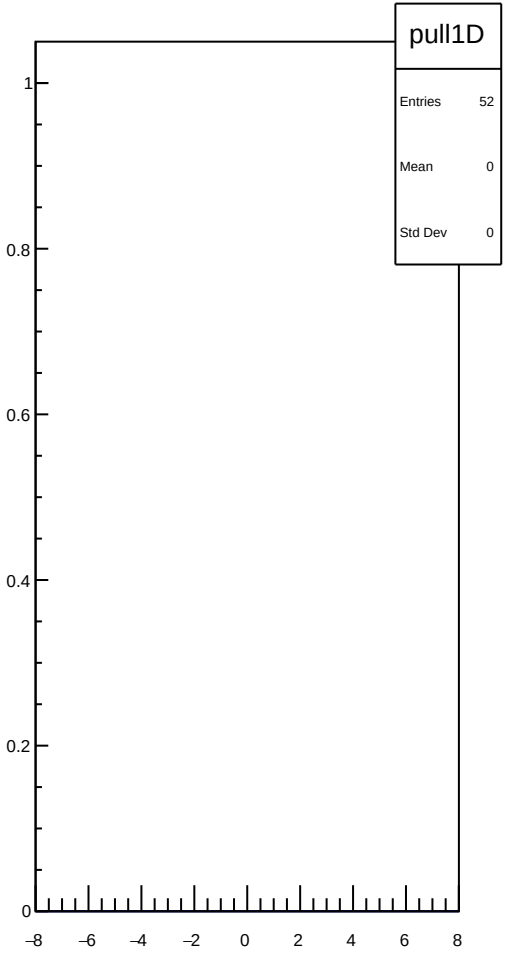
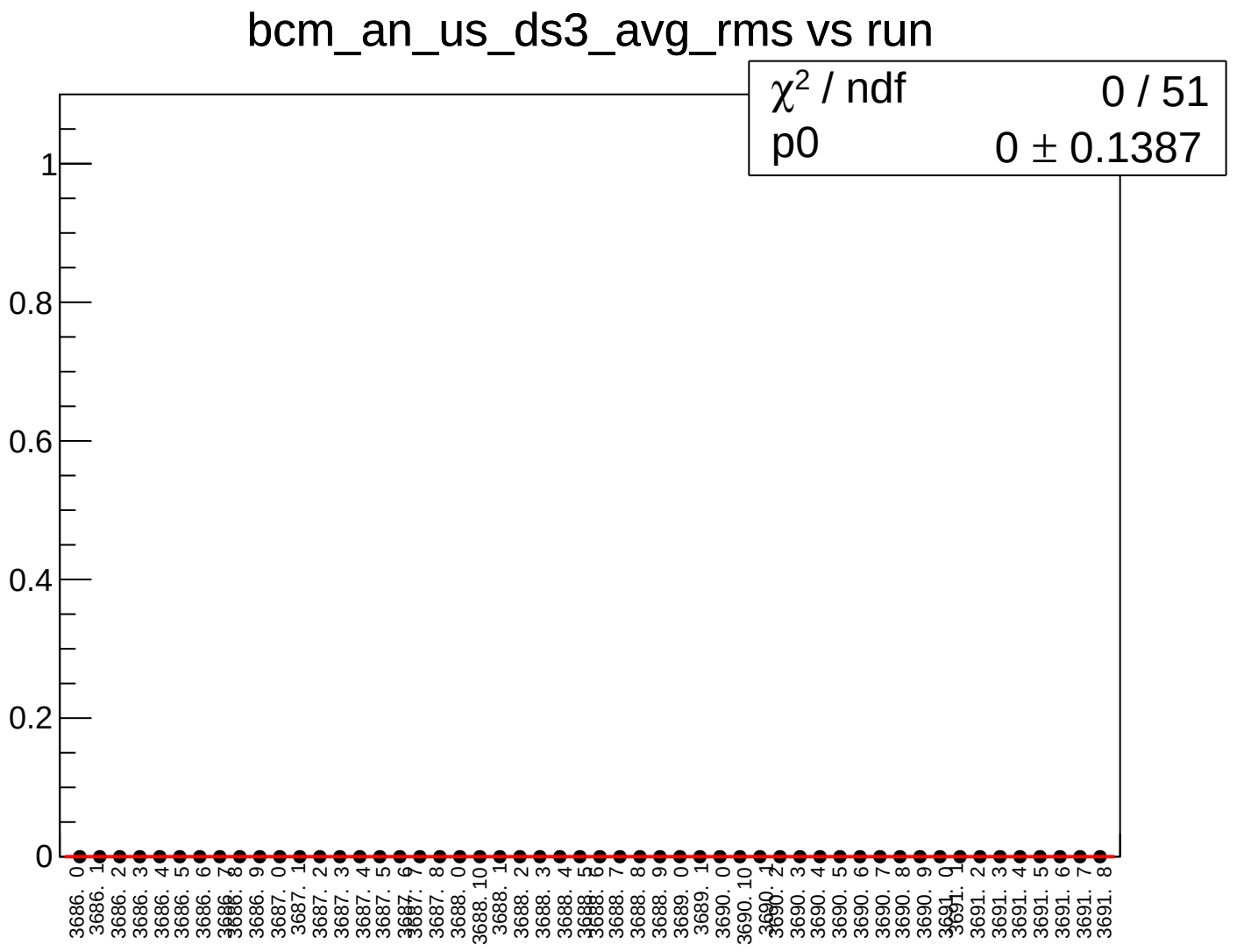
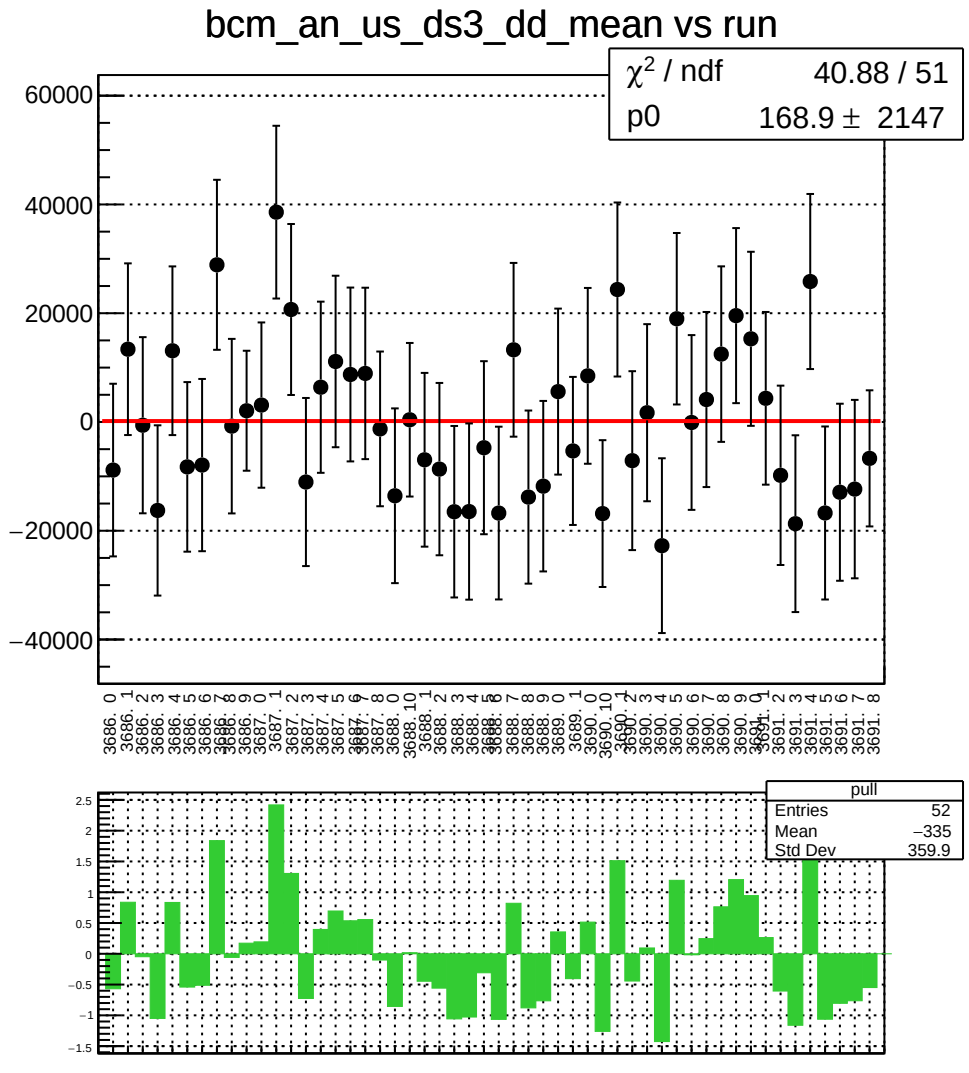
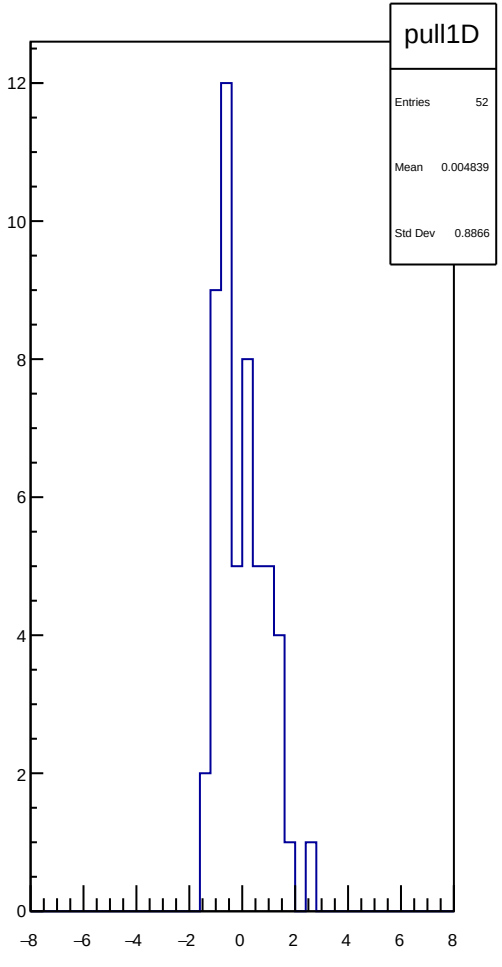
3691. 7
3691. 8

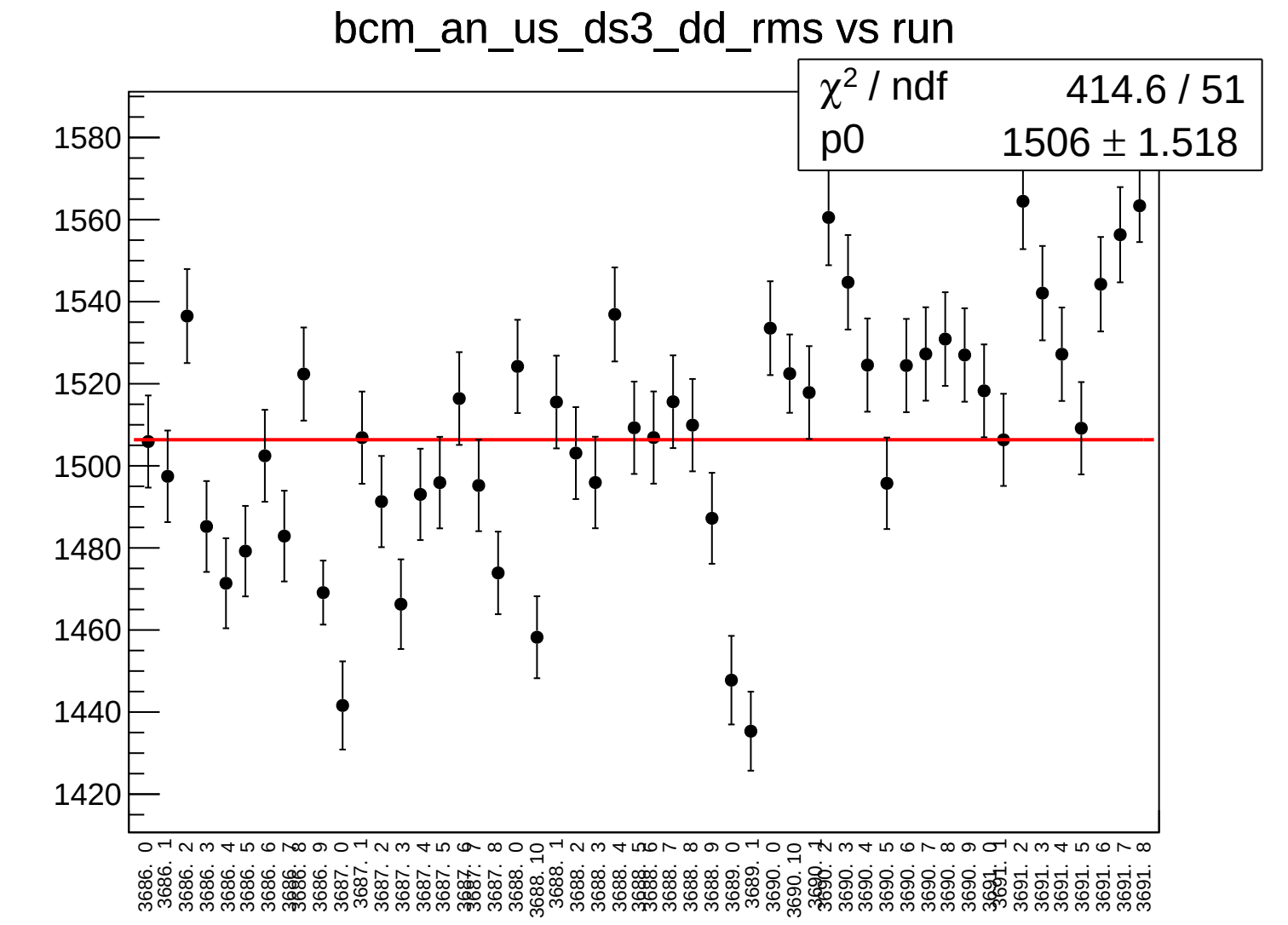

bcm_an_us_ds3_avg_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_an_us_ds3_avg_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


bcm_an_us_ds3_dd_mean vs run
χ² / ndf 40.88 / 51
p0 168.9 ± 2147
pull
Entries 52
Mean −335
Std Dev 359.9


pull1D
Entries 52
Mean 0.004839
Std Dev 0.8866


bcm_an_us_ds3_dd_rms vs run
χ² / ndf 414.6 / 51
p0 1506 ± 1.518
1580
1560
1540
1520
1500
1480
1460
1440
1420
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
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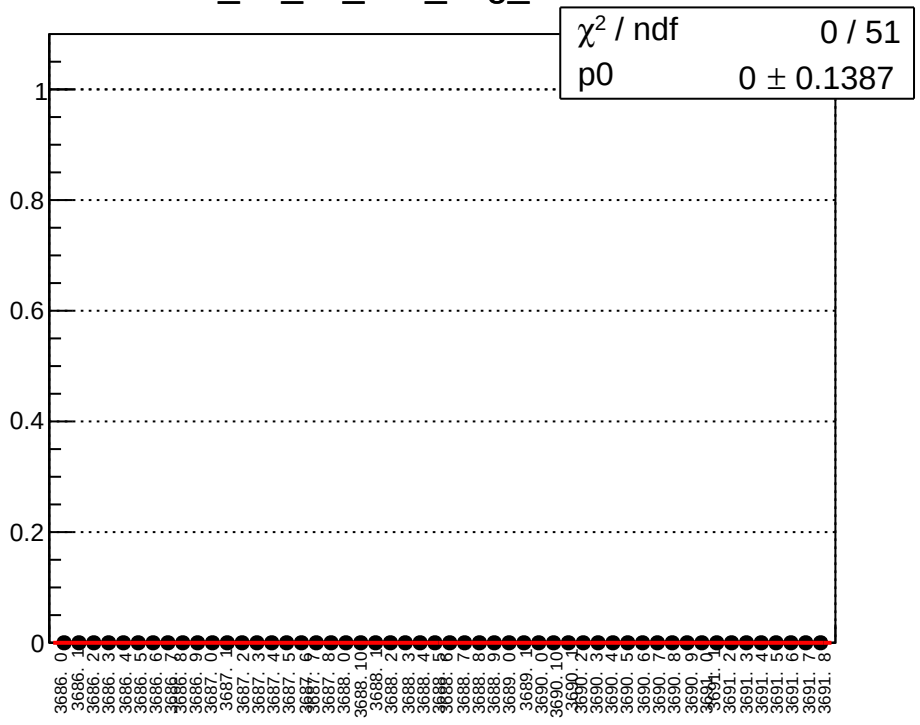
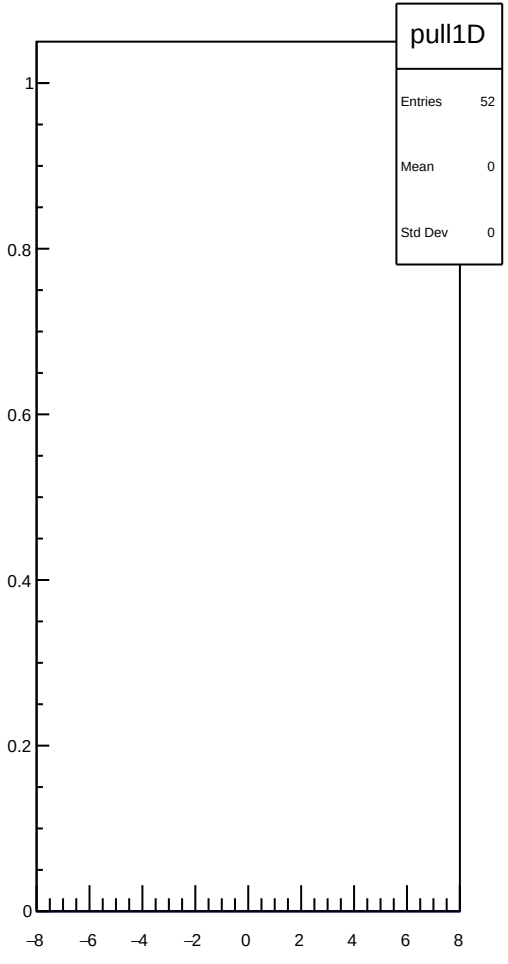
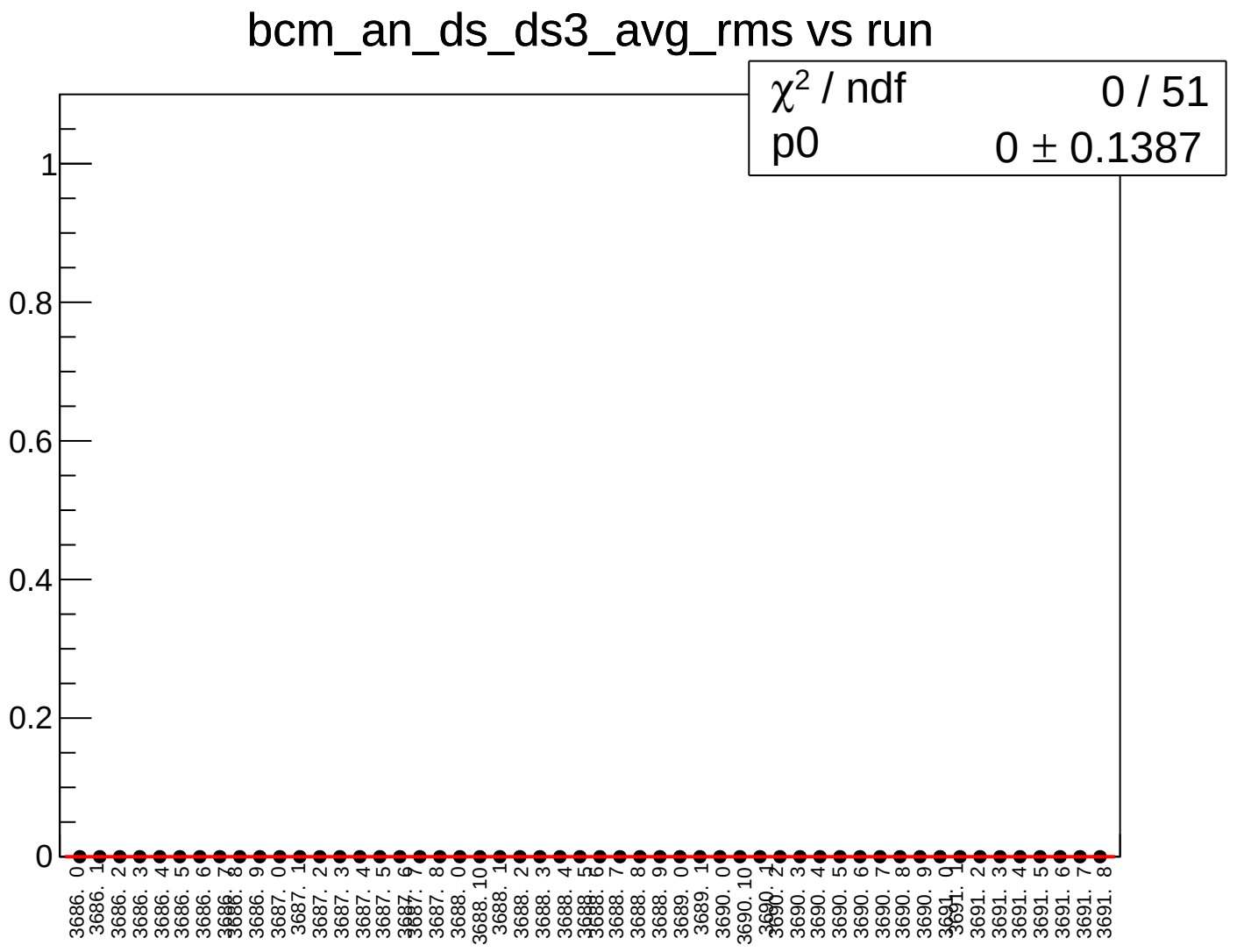
3691. 7
3691. 8


bcm_an_ds_ds3_avg_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_an_ds_ds3_avg_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
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3687. 2
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3687. 8
3688. 0
3688. 10
3688. 1
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3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
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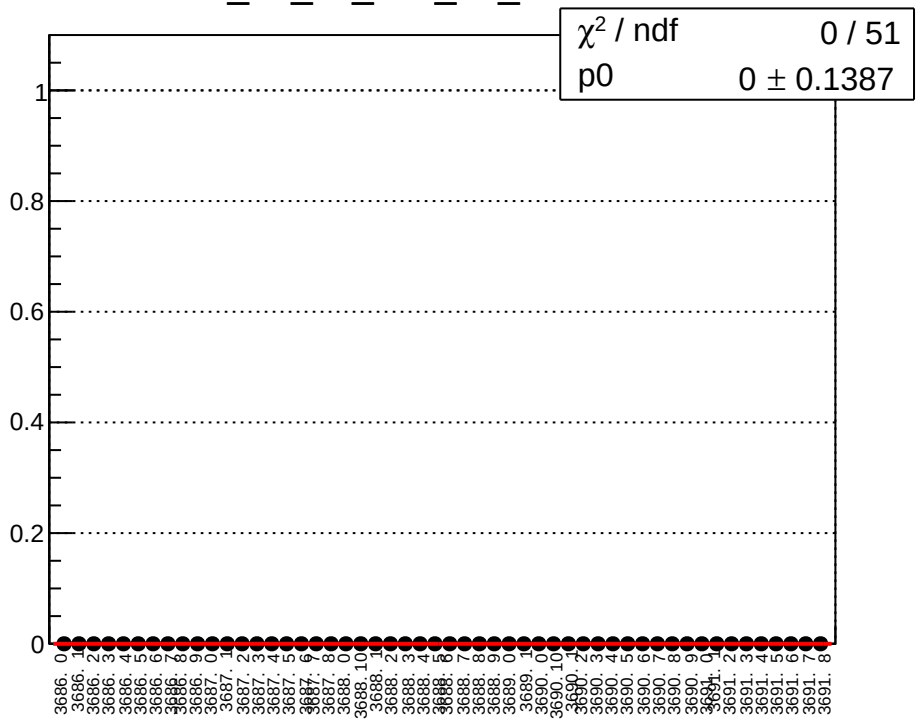
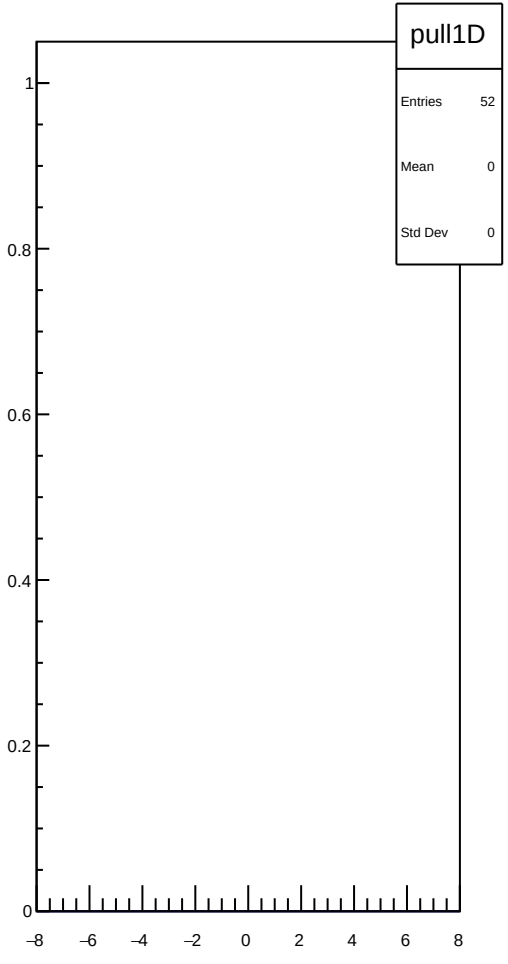
3691. 7
3691. 8


bcm_an_ds_ds3_dd_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 52
Mean 0
Std Dev 0
1
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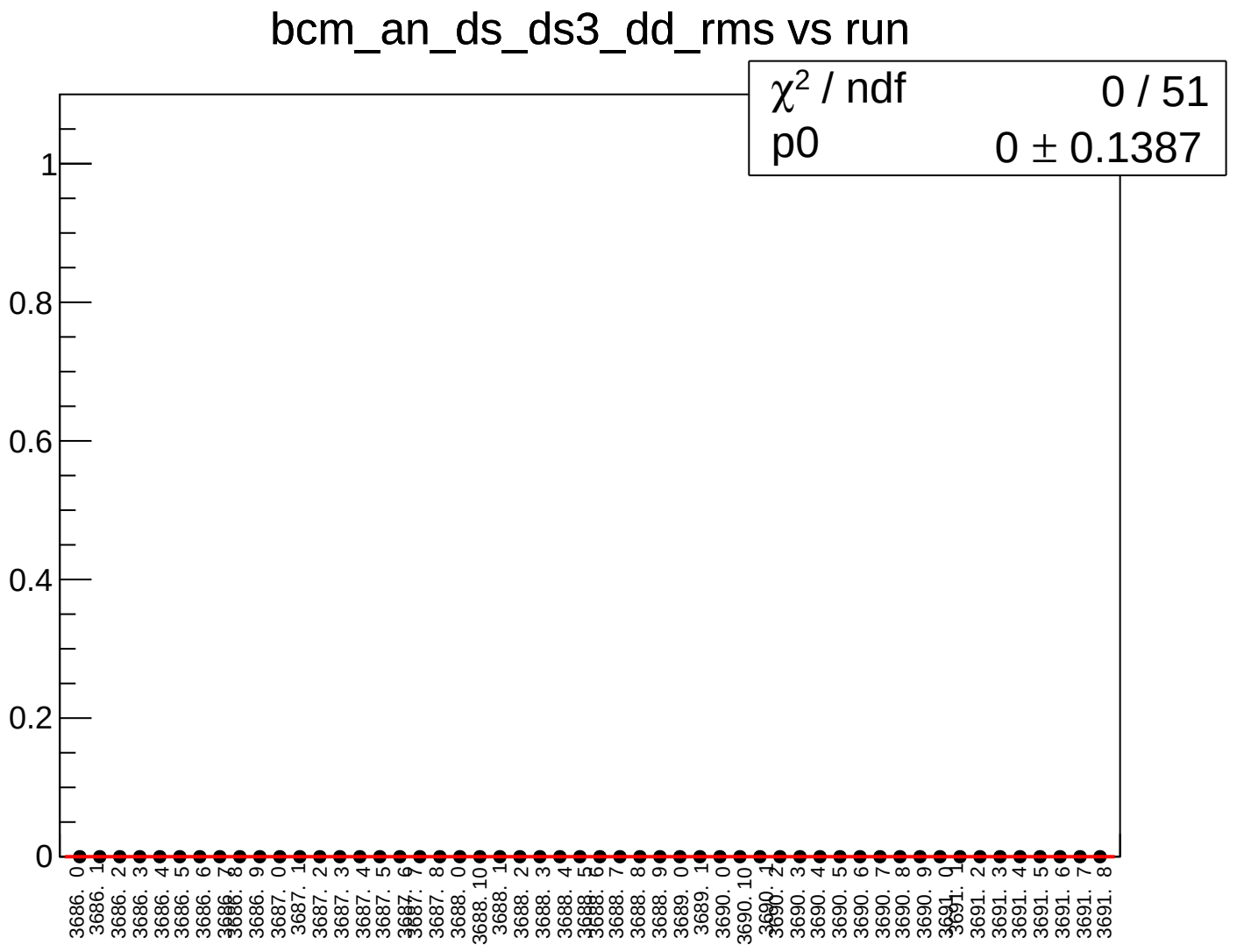
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_an_ds_ds3_dd_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
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3687. 2
3687. 3
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3687. 8
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3688. 10
3688. 1
3688. 2
3688. 3
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3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
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3691. 2
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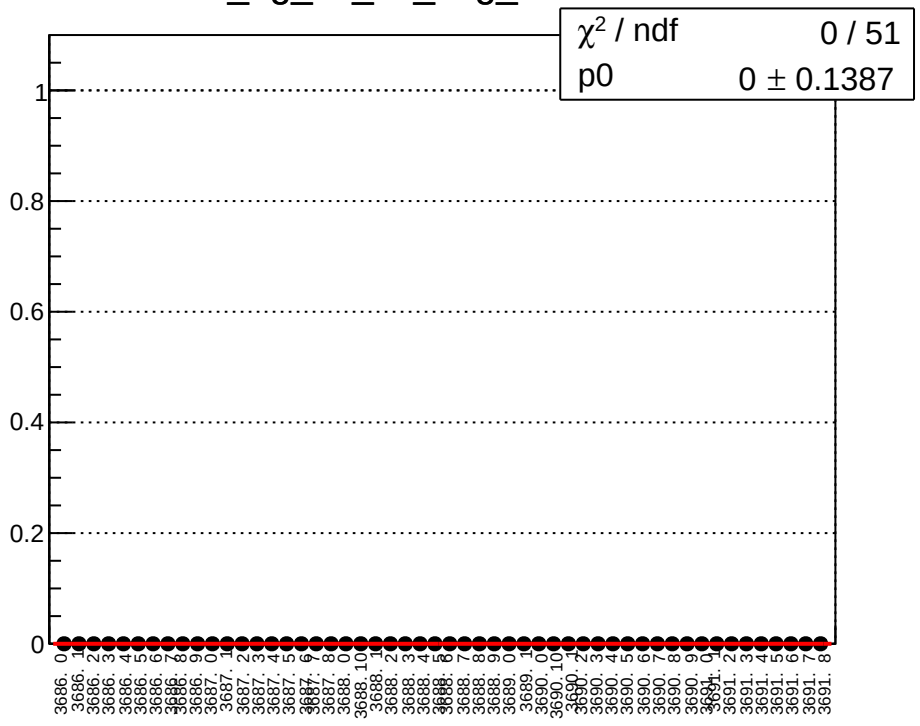
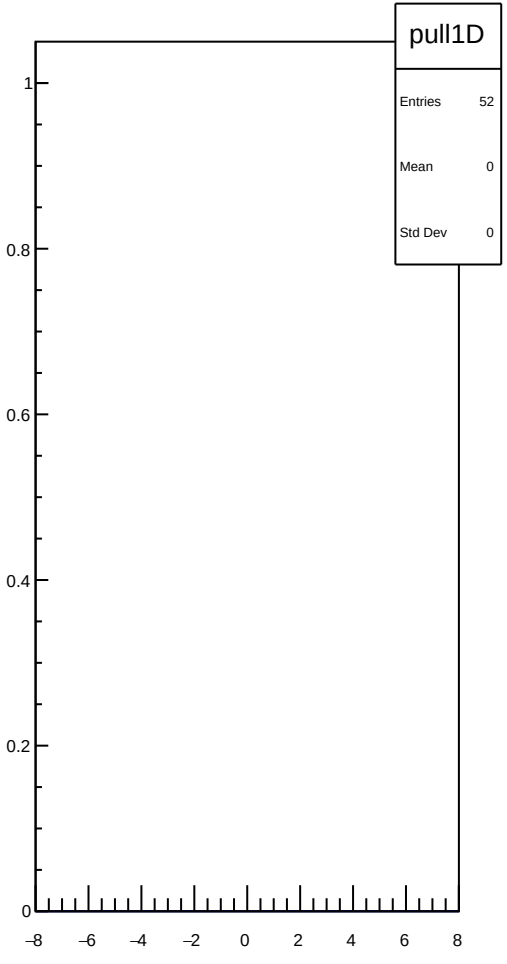

bcm_dg_us_ds_avg_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 52
Mean 0
Std Dev 0
1
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0.6
0.4
0.2
0
–8
–6
–4
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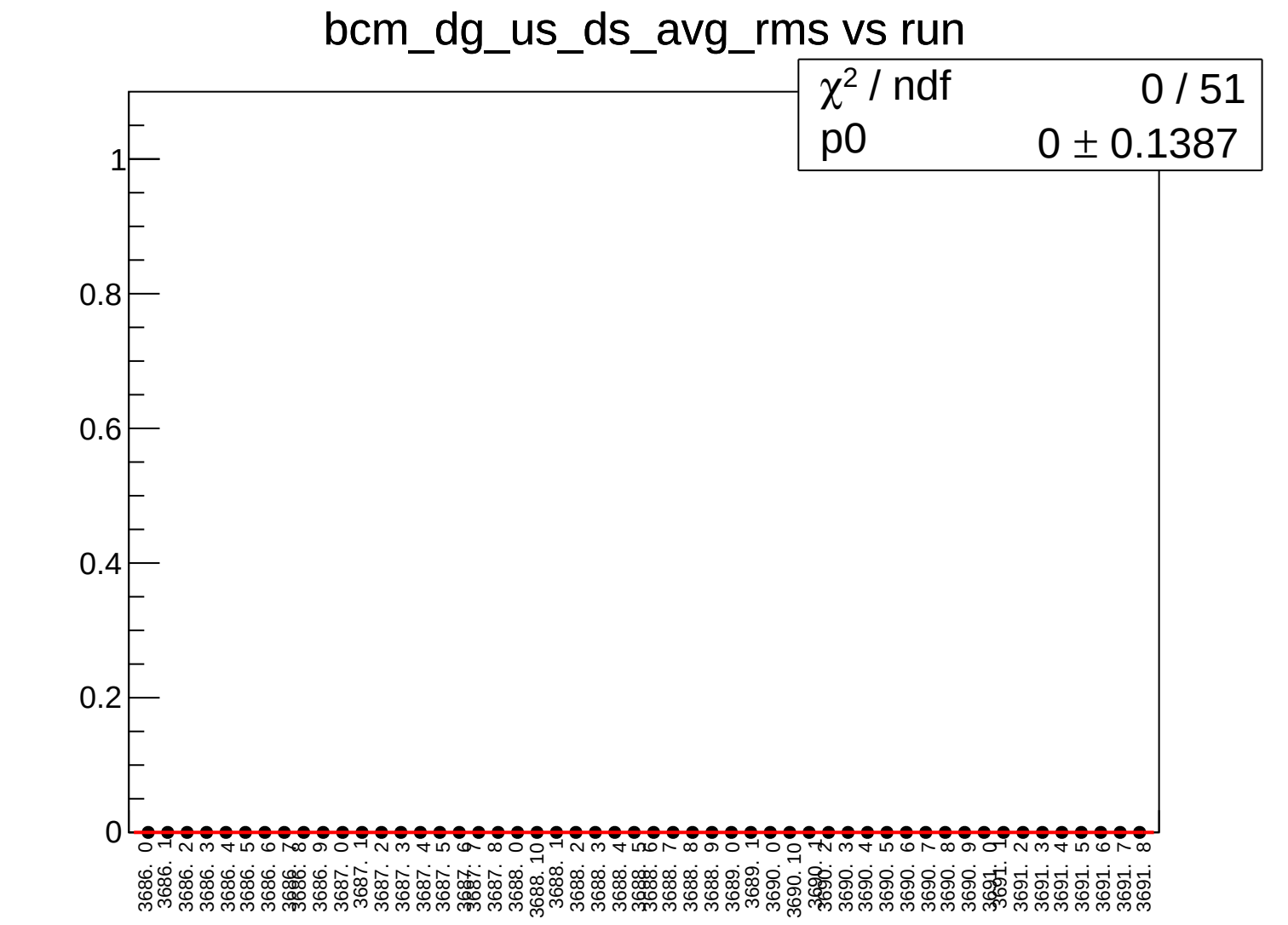
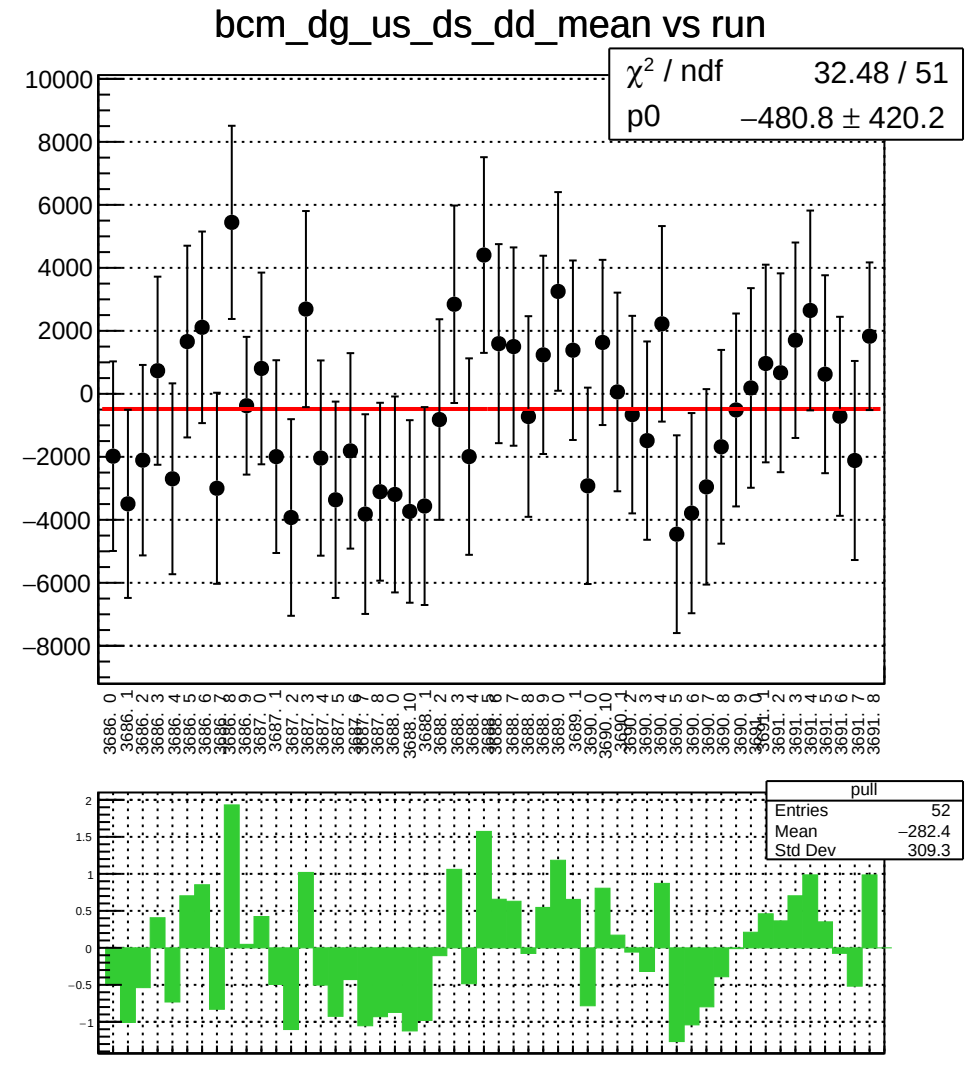
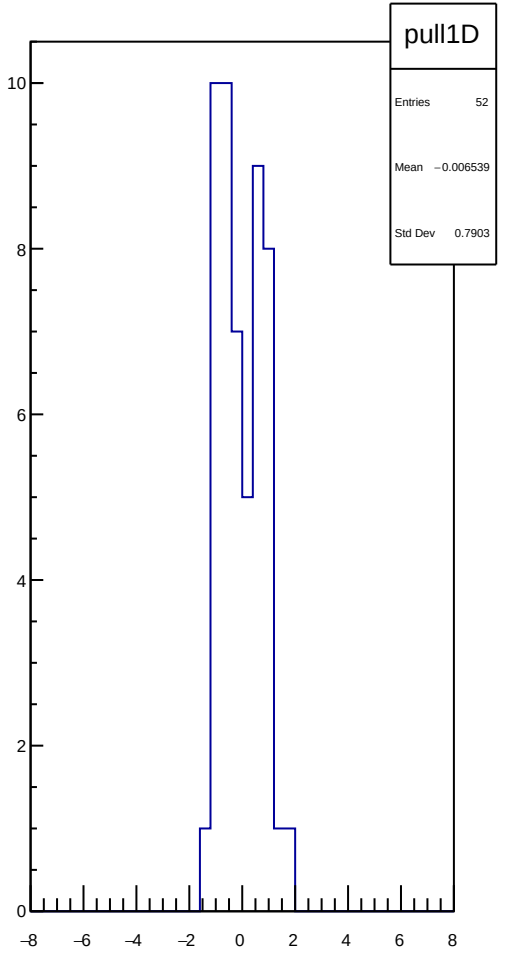
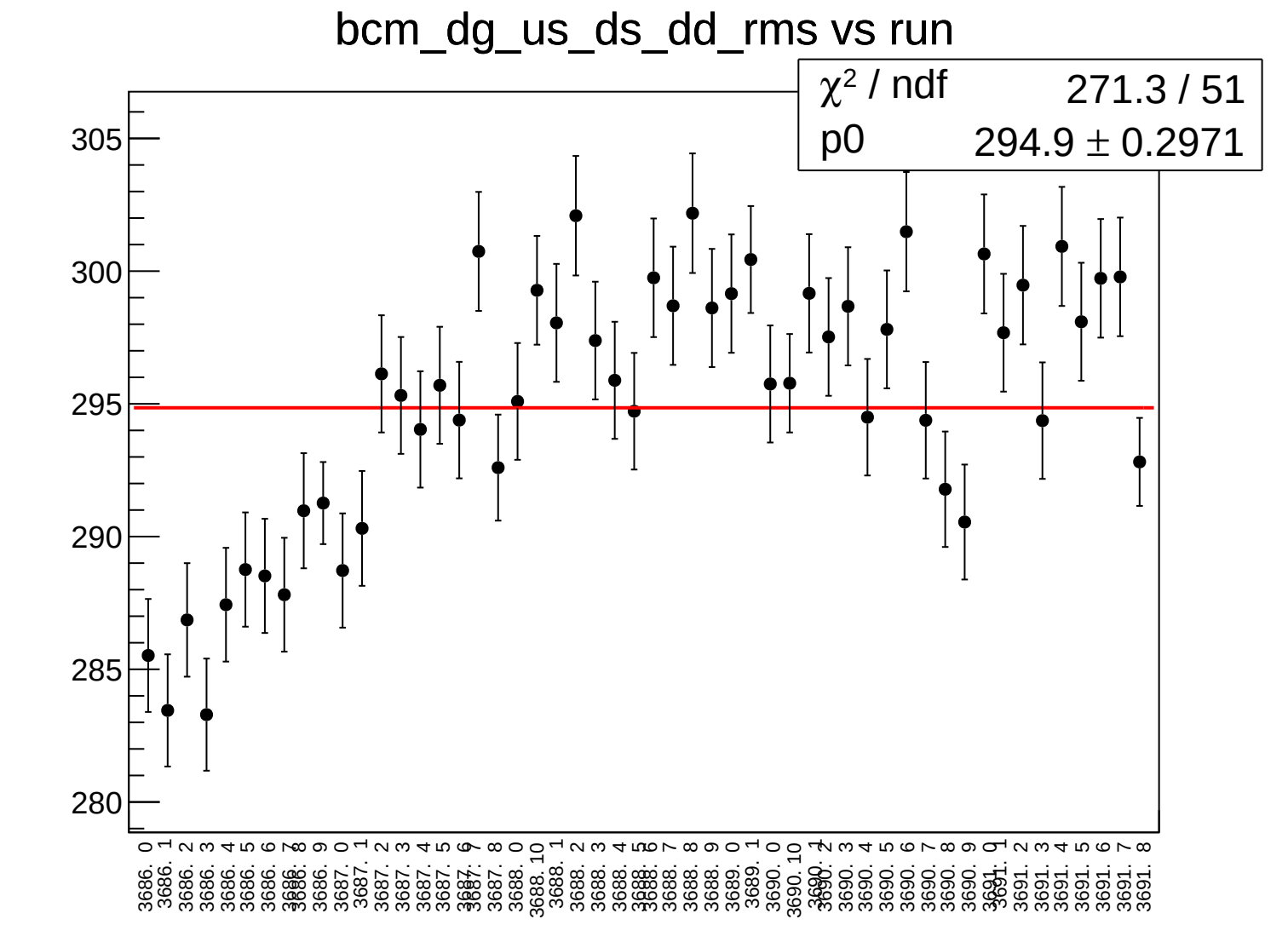
2
4
6
8


bcm_dg_us_ds_avg_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


bcm_dg_us_ds_dd_mean vs run
χ² / ndf 32.48 / 51
p0 −480.8 ± 420.2
pull
Entries 52
Mean −282.4
Std Dev 309.3


pull1D
Entries 52
Mean −0.006539
Std Dev 0.7903


bcm_dg_us_ds_dd_rms vs run
χ² / ndf 271.3 / 51
p0 294.9 ± 0.2971
305
300
295
290
285
280
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
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3688. 3
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3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
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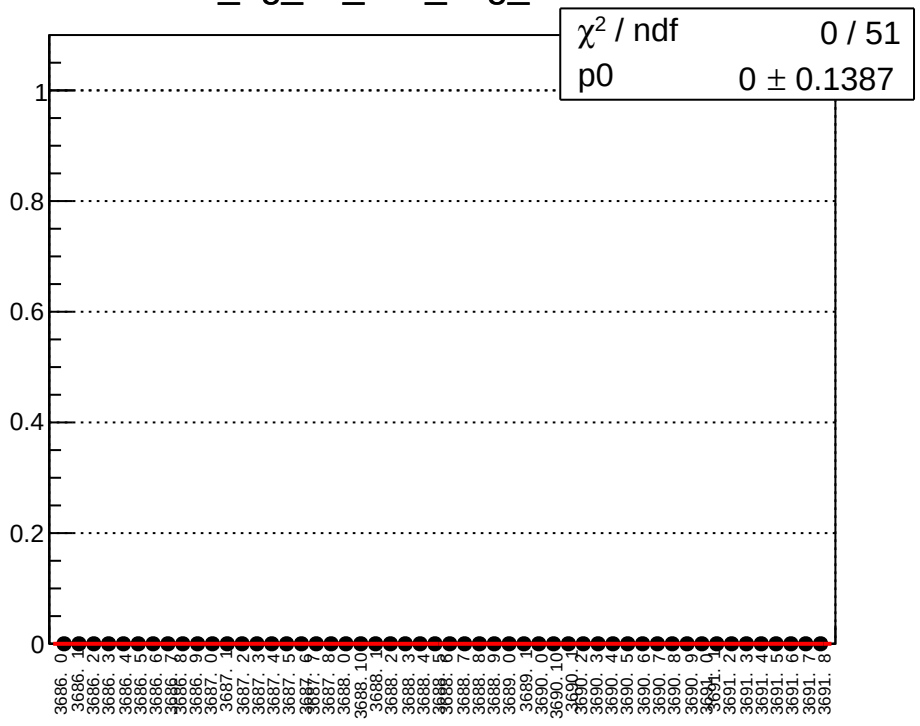
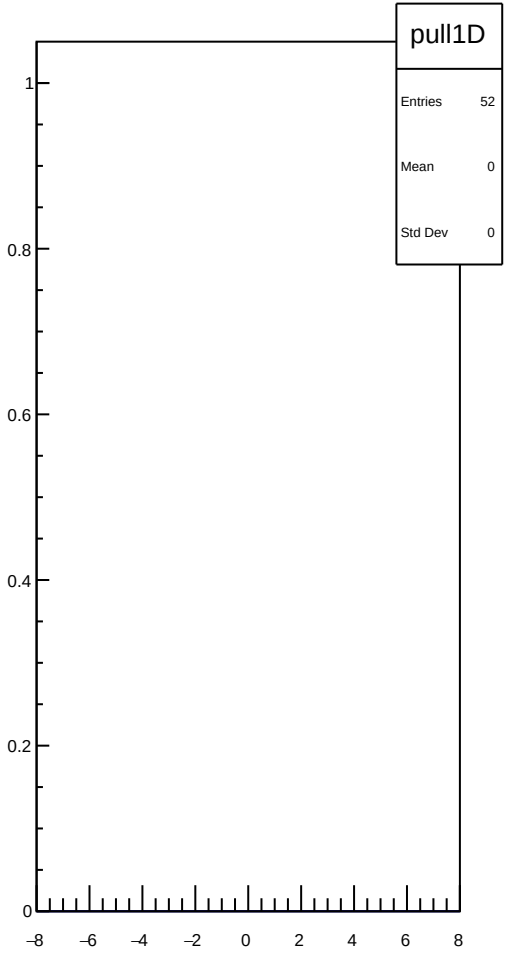
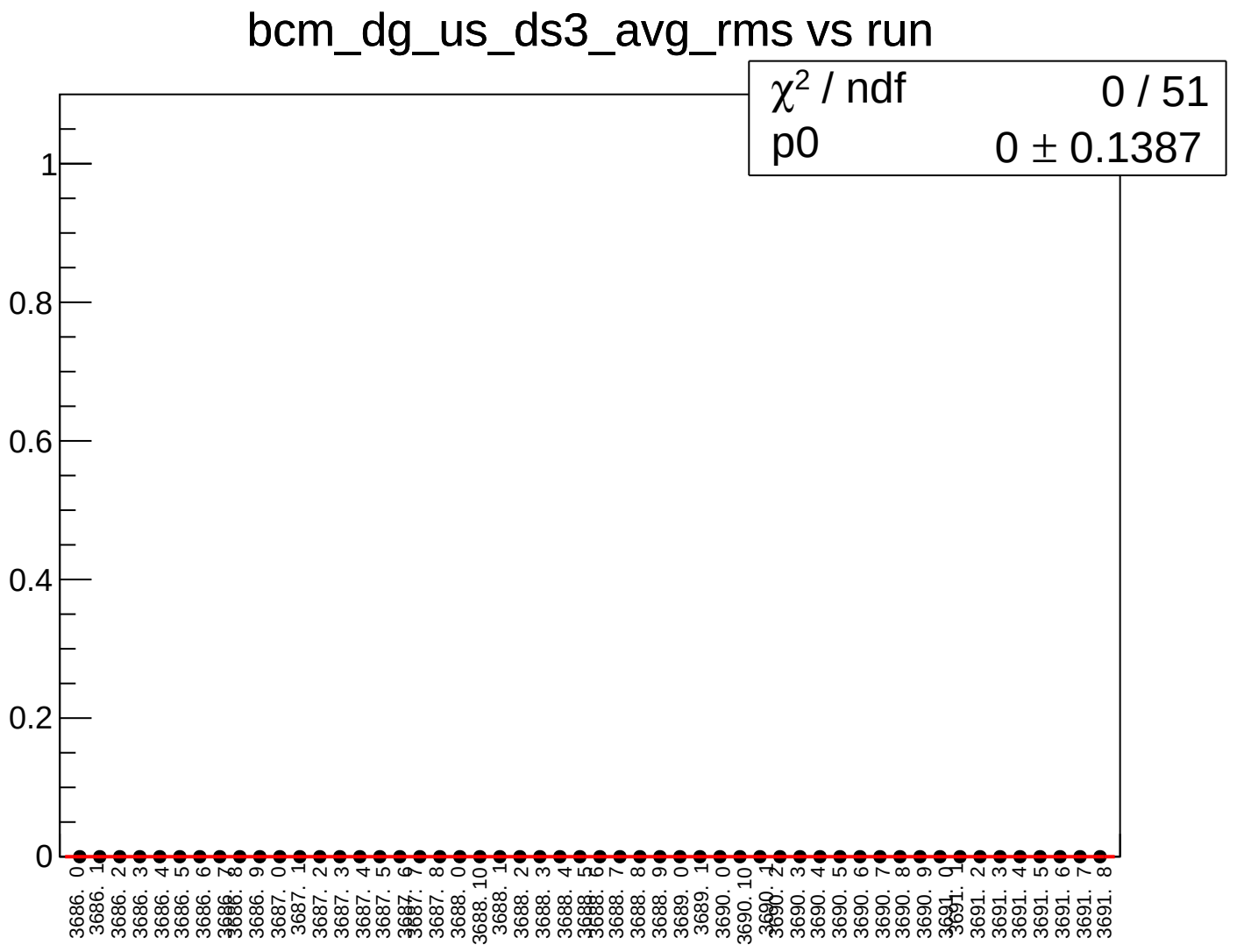
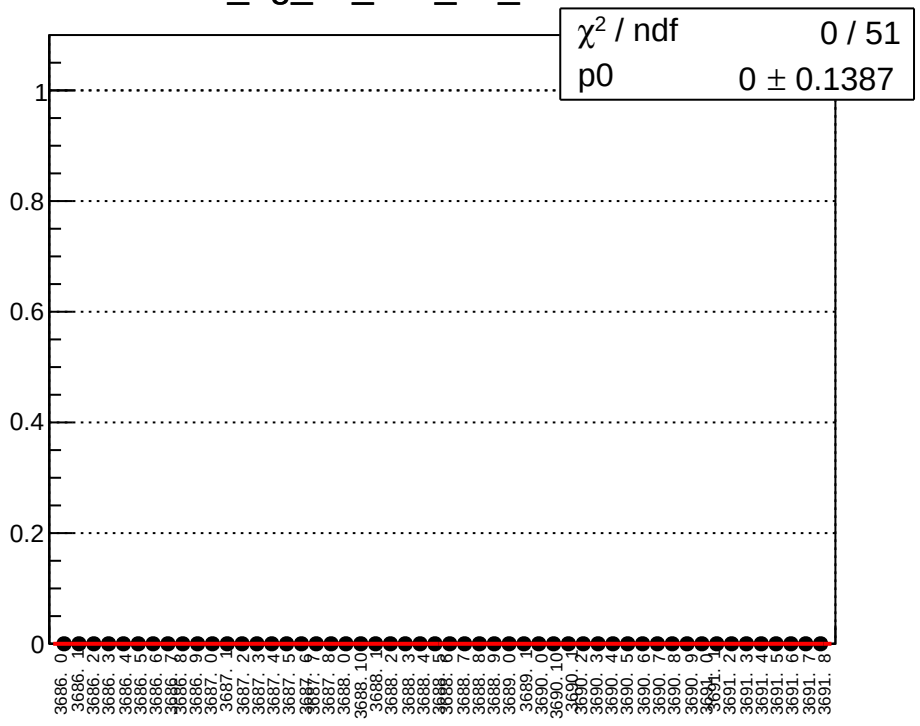
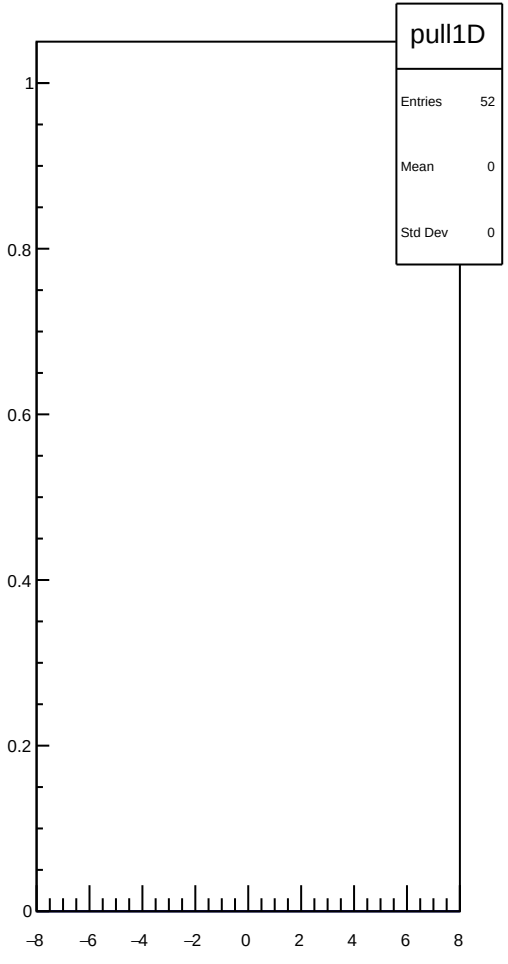
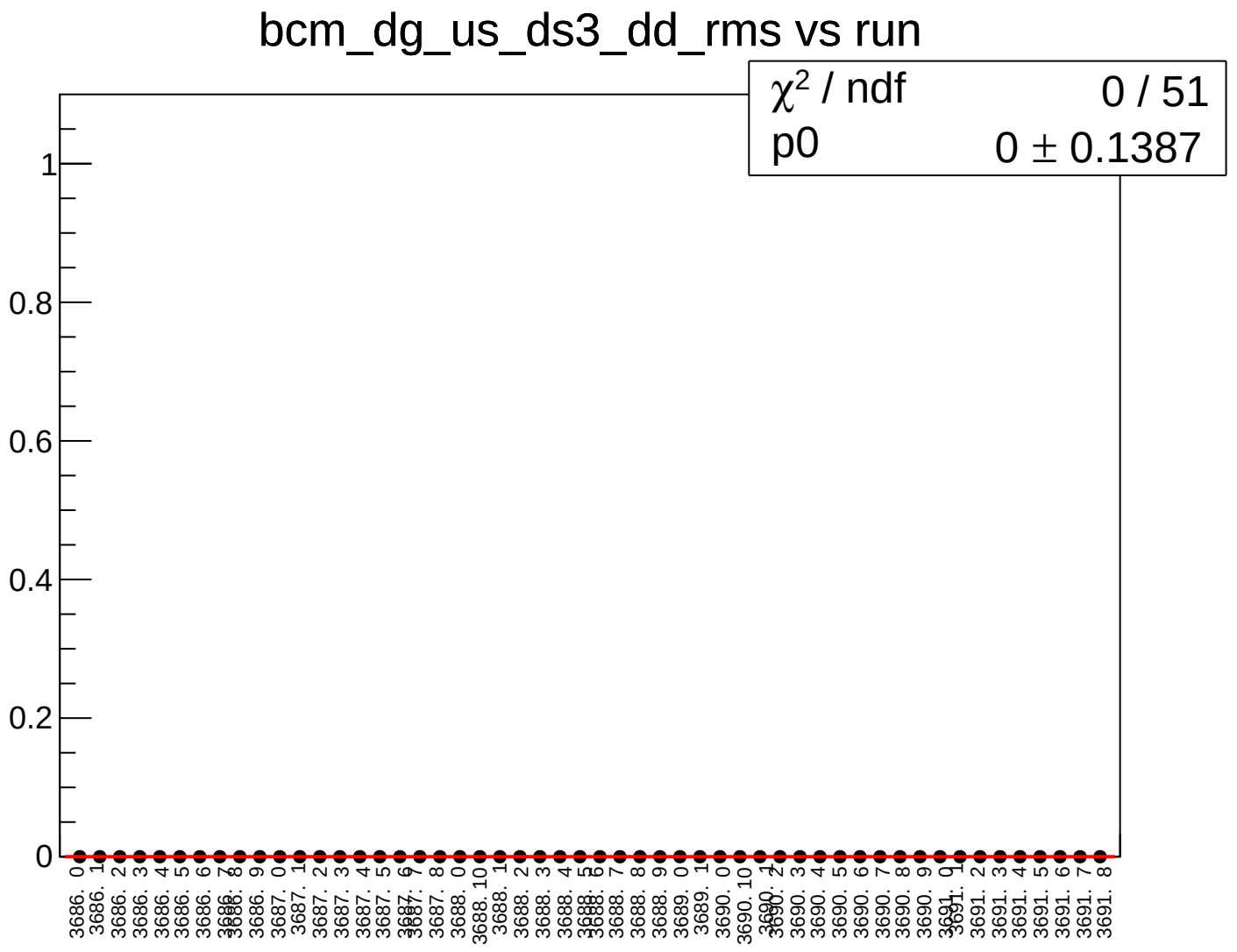

bcm_dg_us_ds3_avg_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_dg_us_ds3_avg_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


bcm_dg_us_ds3_dd_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_dg_us_ds3_dd_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
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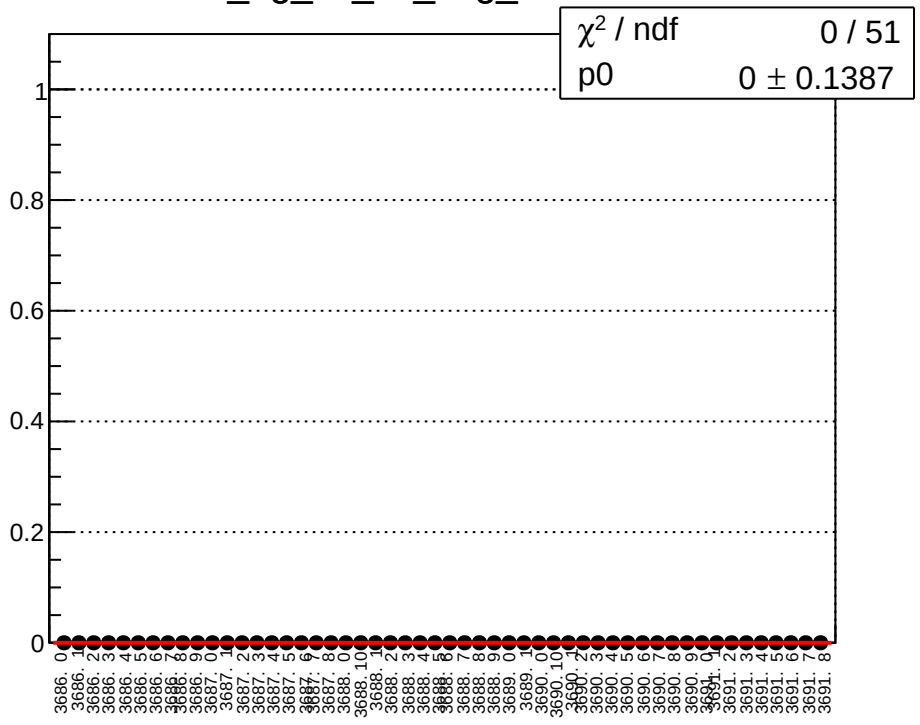
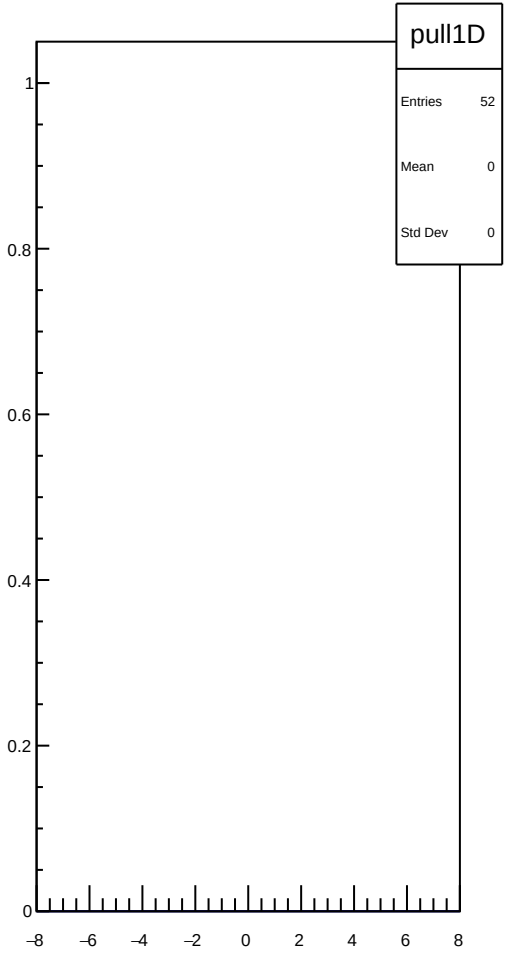
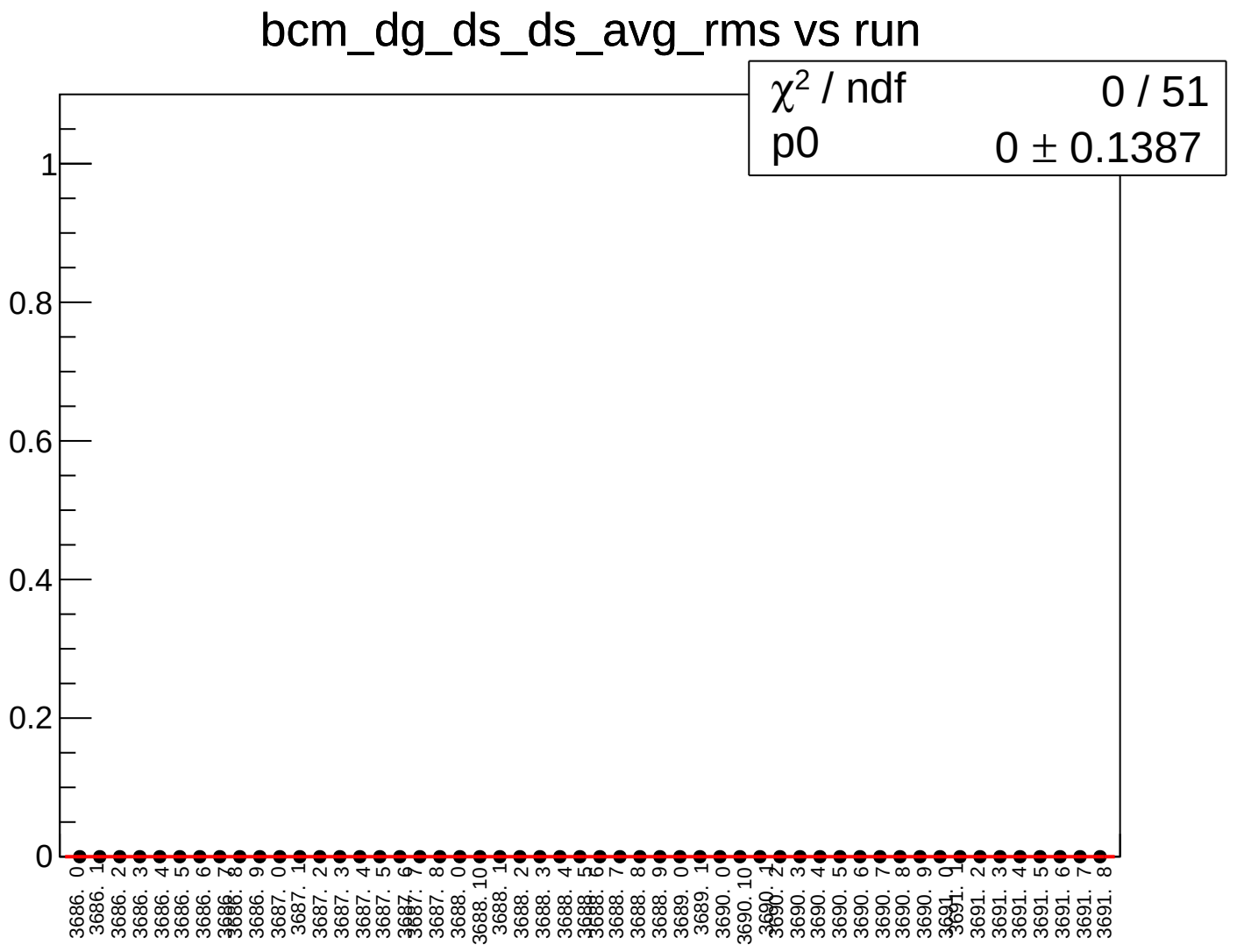
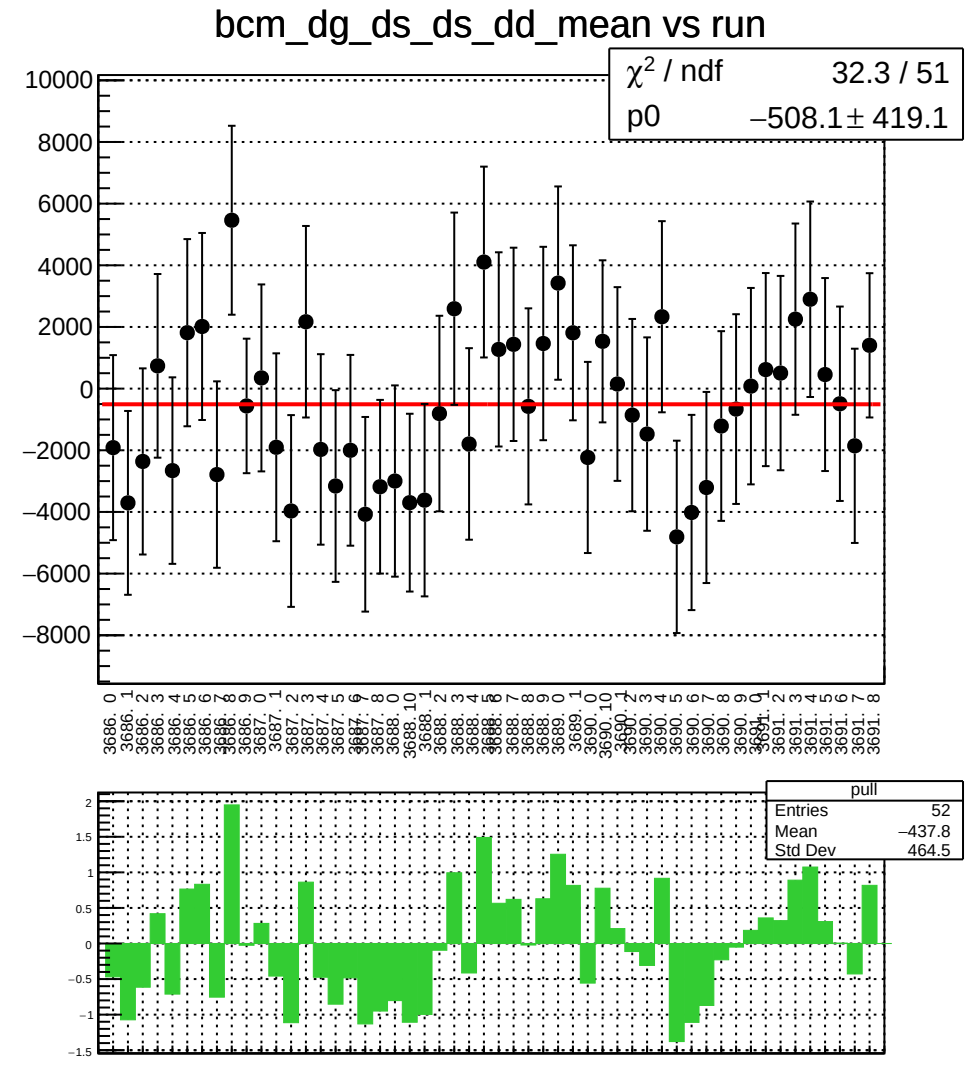
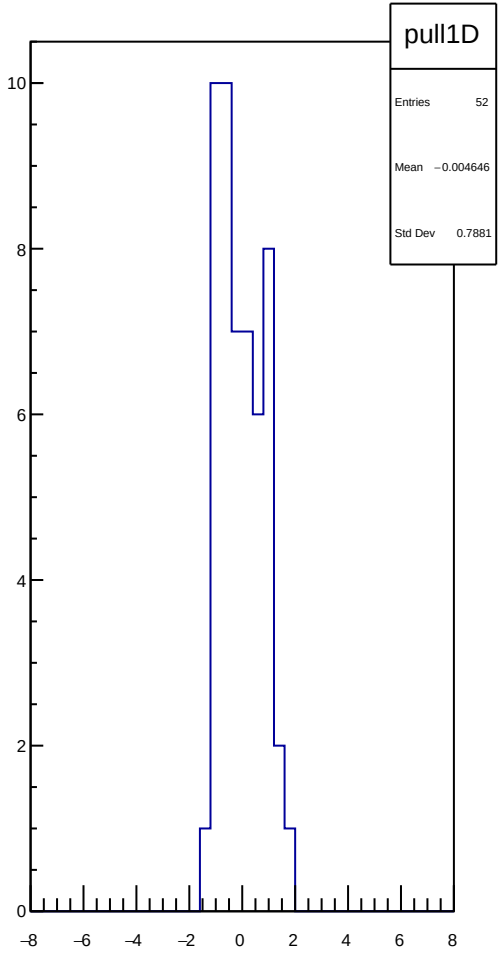
3691. 5
3691. 6
3691. 7
3691. 8

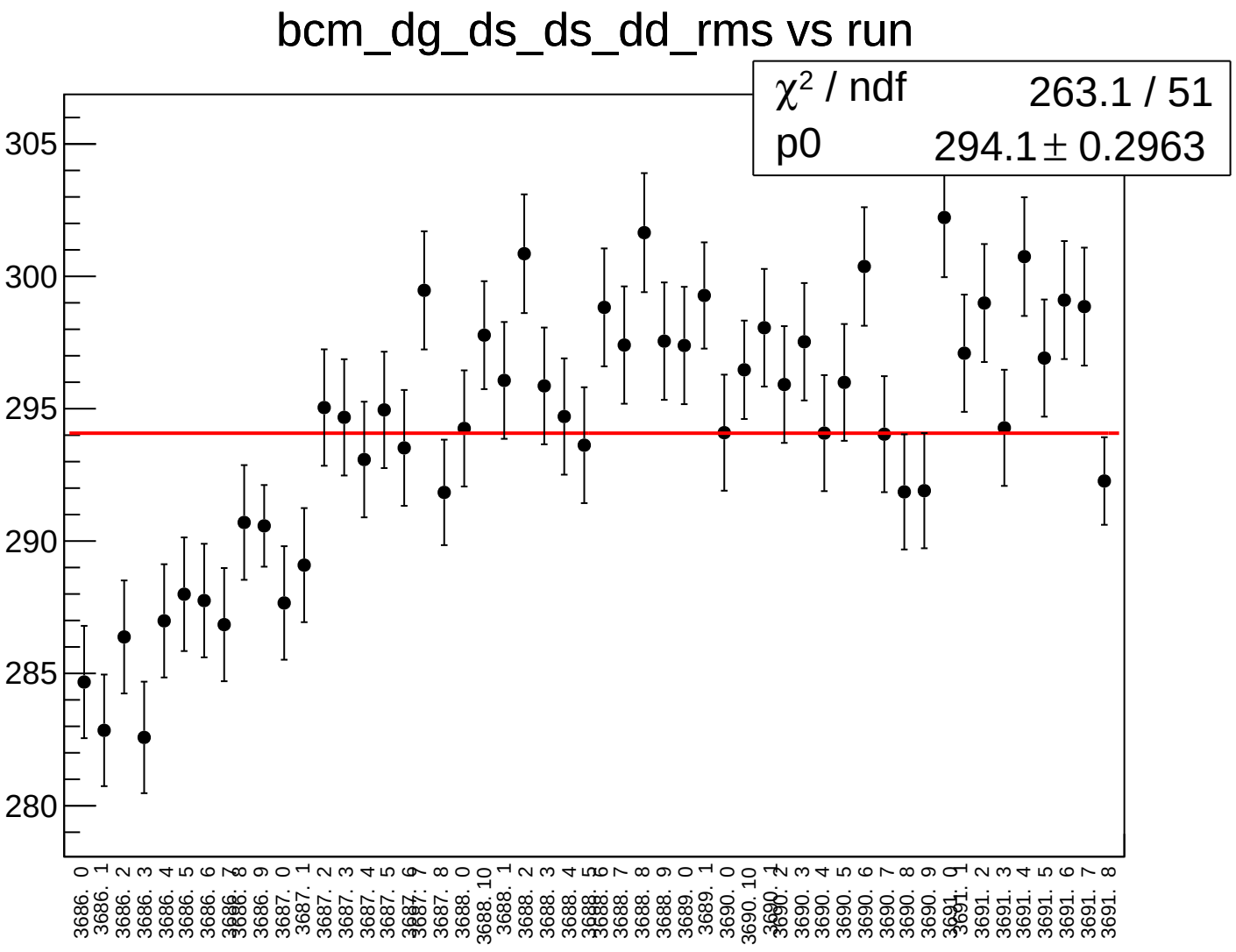

bcm_dg_ds_ds_avg_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_dg_ds_ds_avg_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 32.3 / 51
p0 −508.1 ± 419.1
pull
Entries 52
Mean −437.8
Std Dev 464.5


pull1D
Entries 52
Mean −0.004646
Std Dev 0.7881


bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 263.1 / 51
p0 294.1 ± 0.2963
305
300
295
290
285
280
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
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3690. 9
3691. 2
3691. 3
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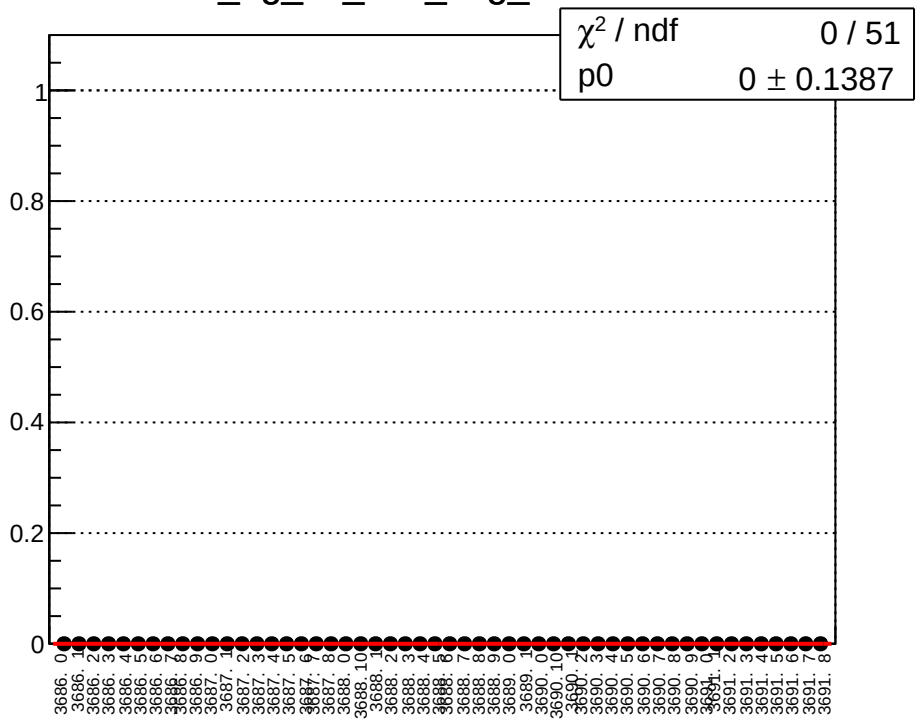
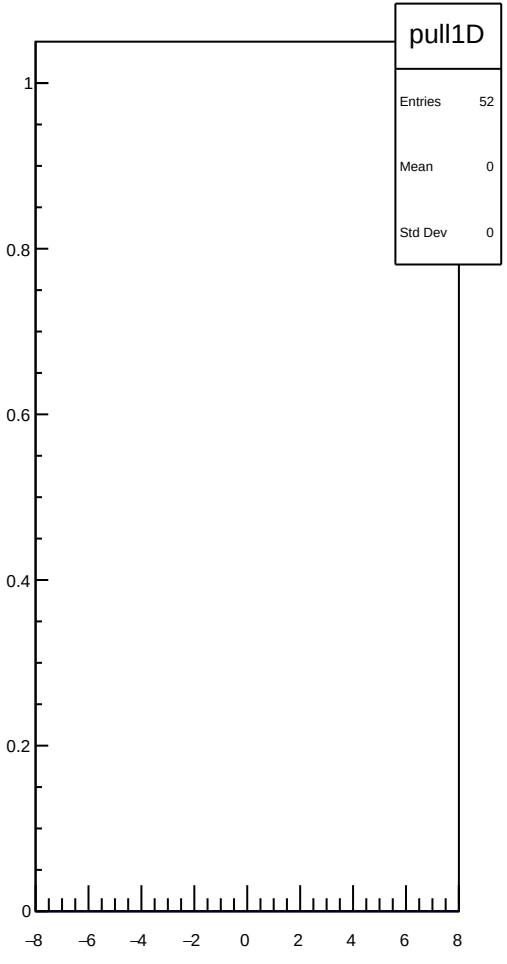
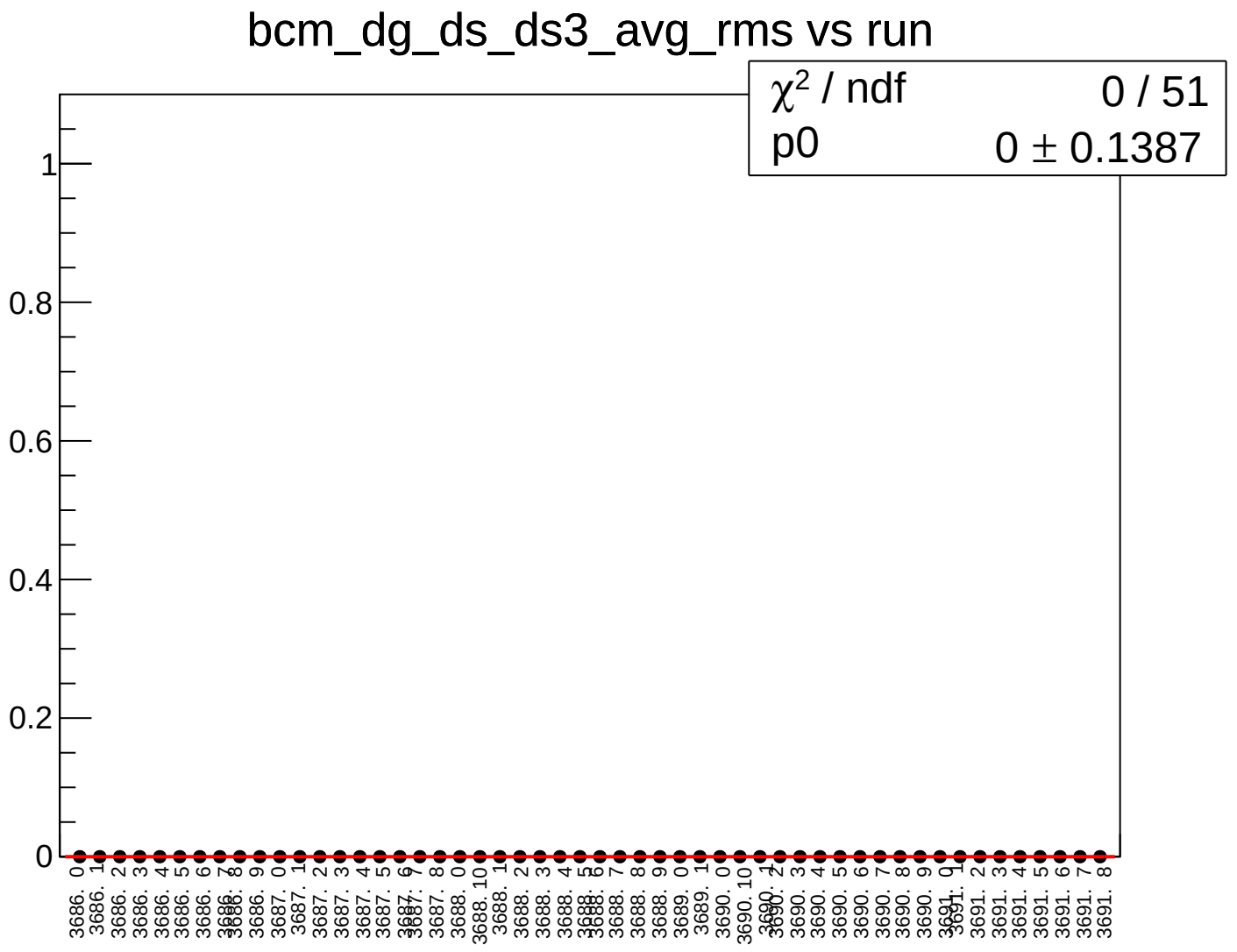
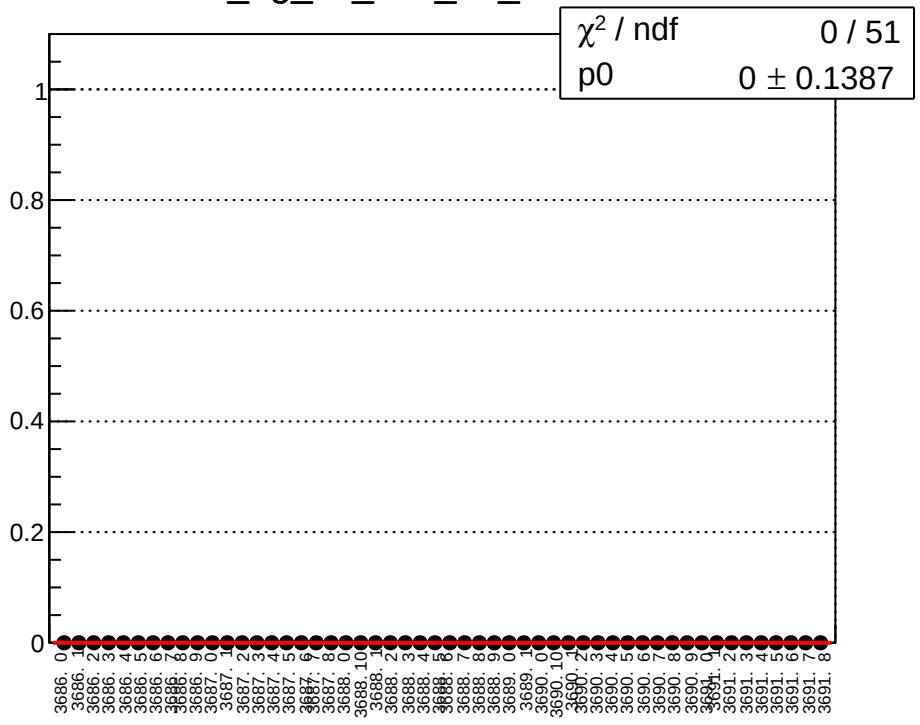
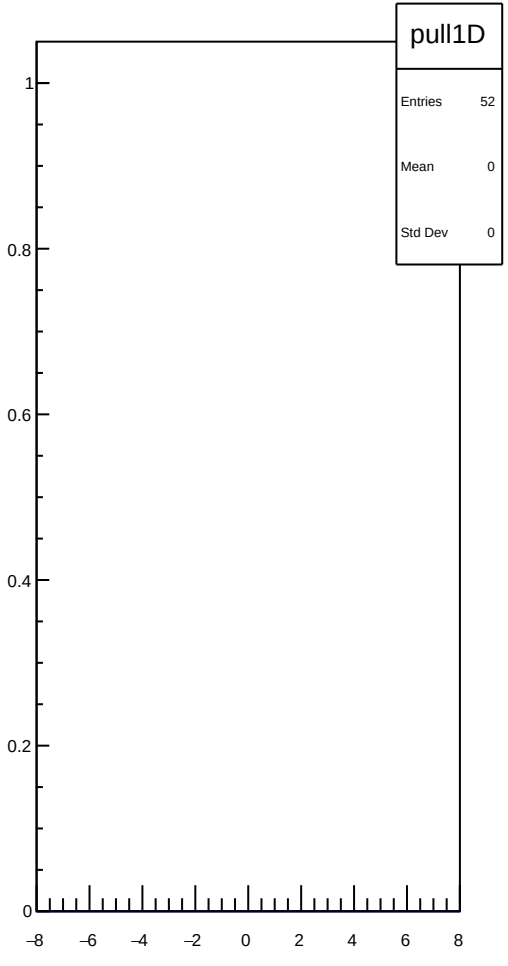
3691. 7
3691. 8

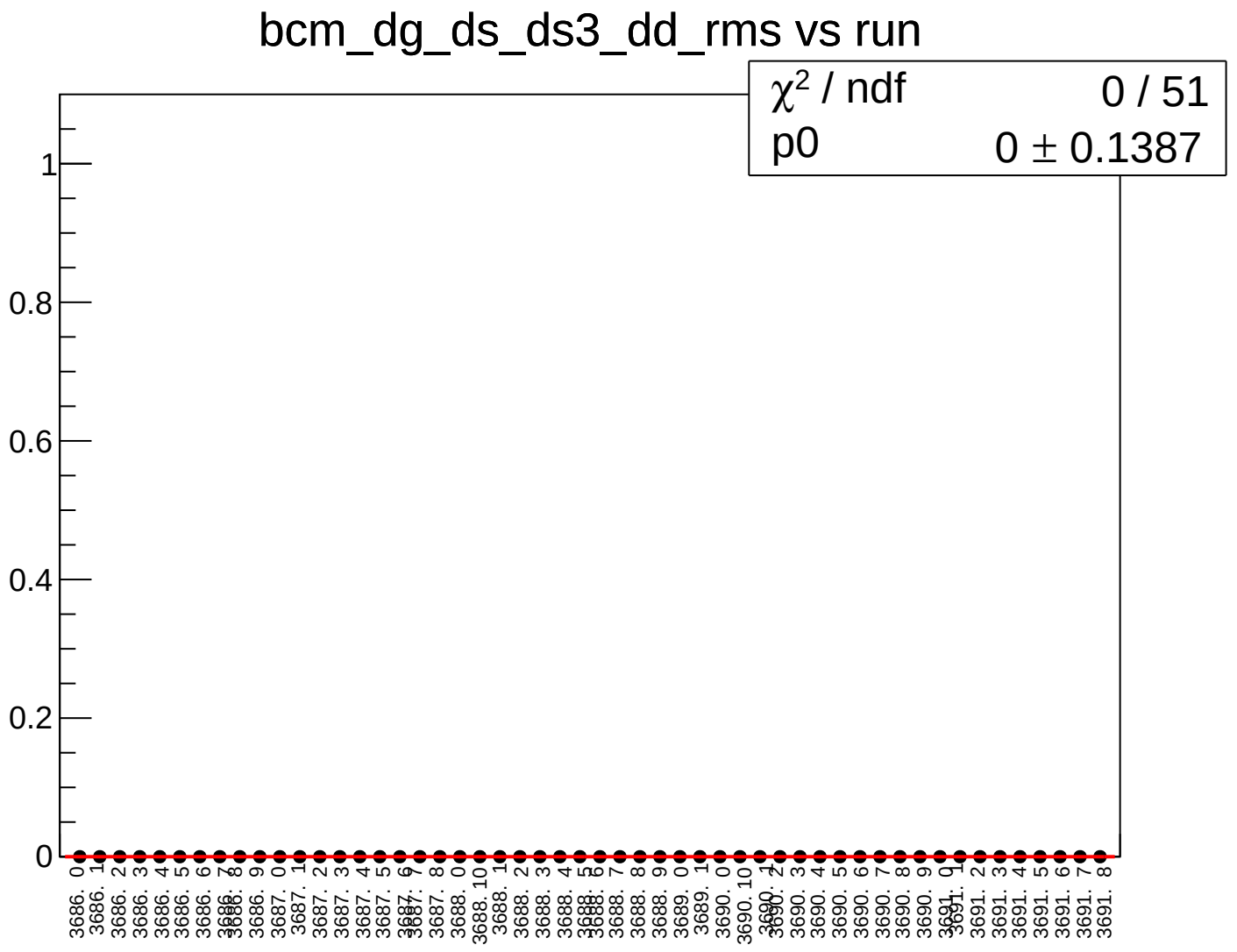

bcm_dg_ds_ds3_avg_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

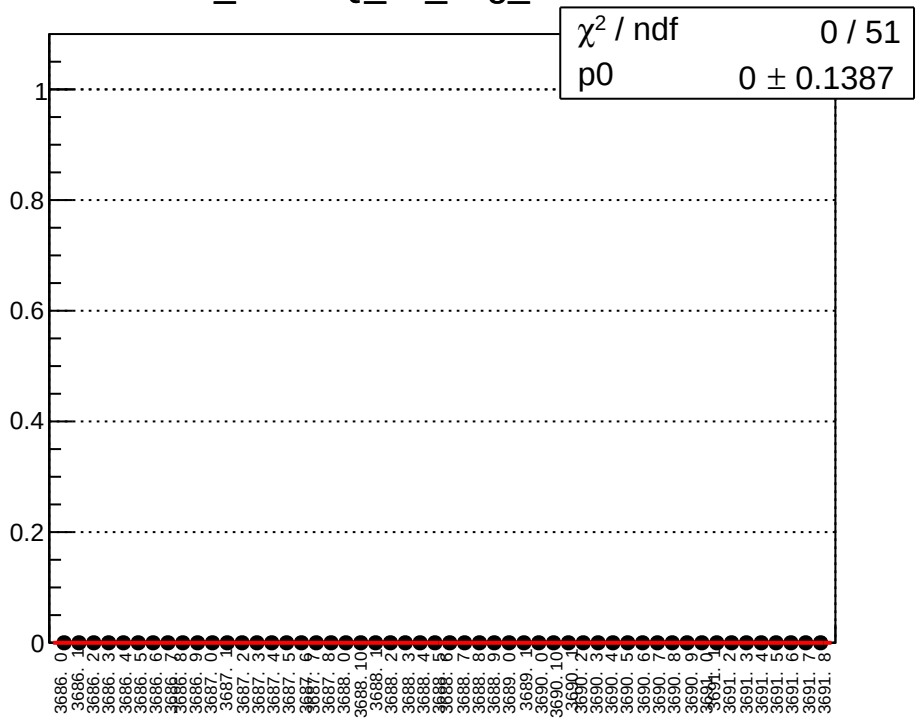

pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

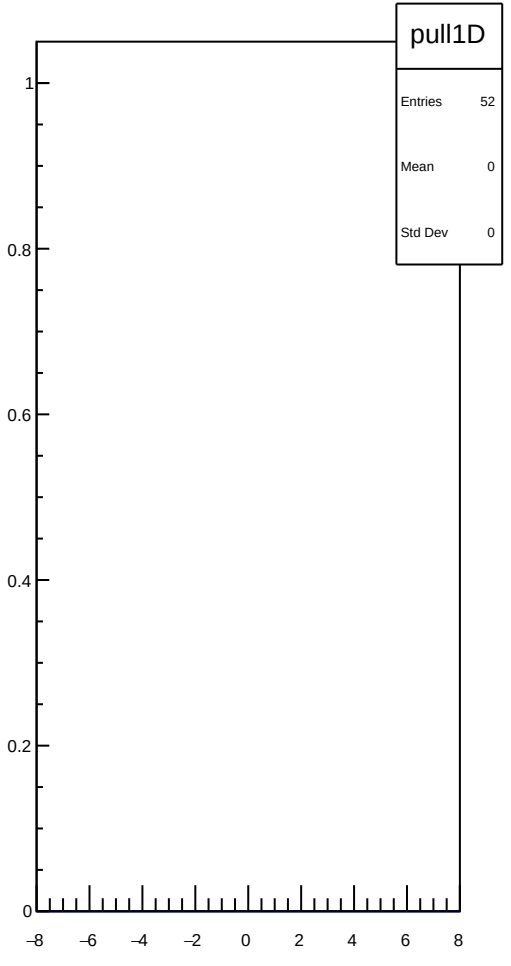

bcm_dg_ds_ds3_avg_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

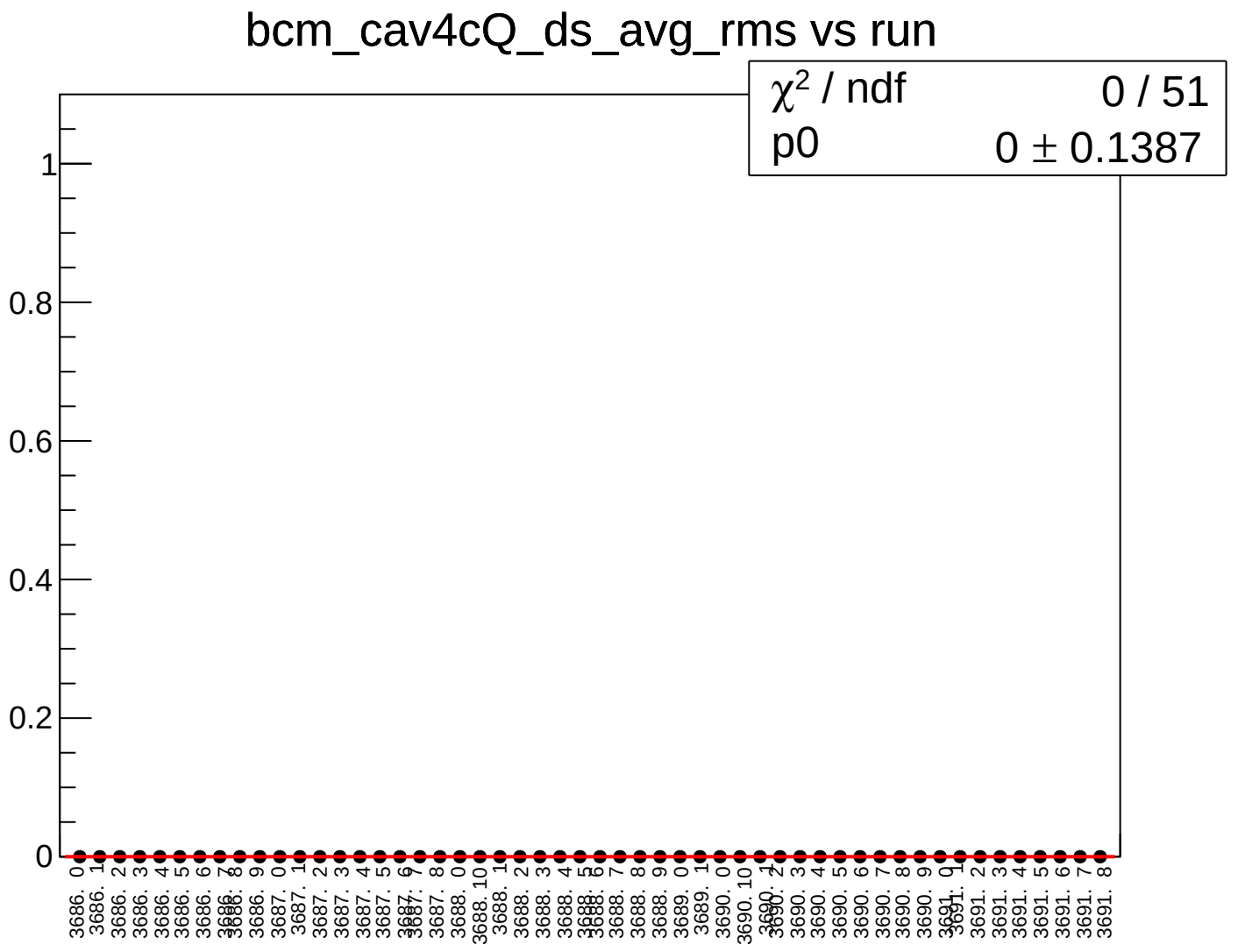

bcm_dg_ds_ds3_dd_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

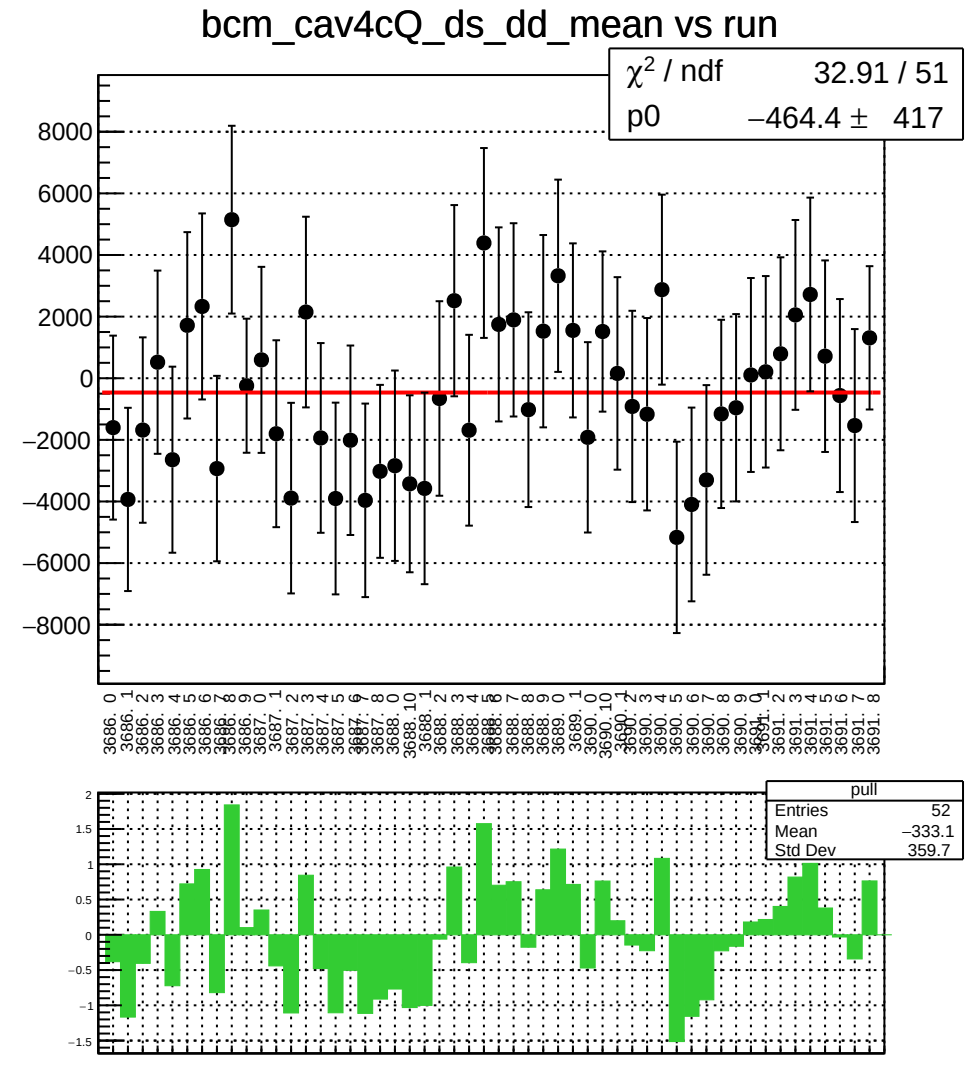

pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

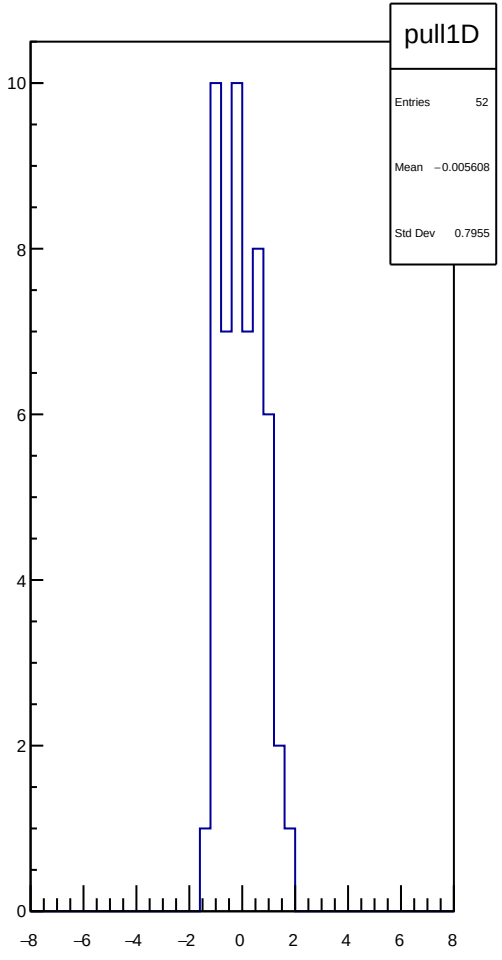

bcm_dg_ds_ds3_dd_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

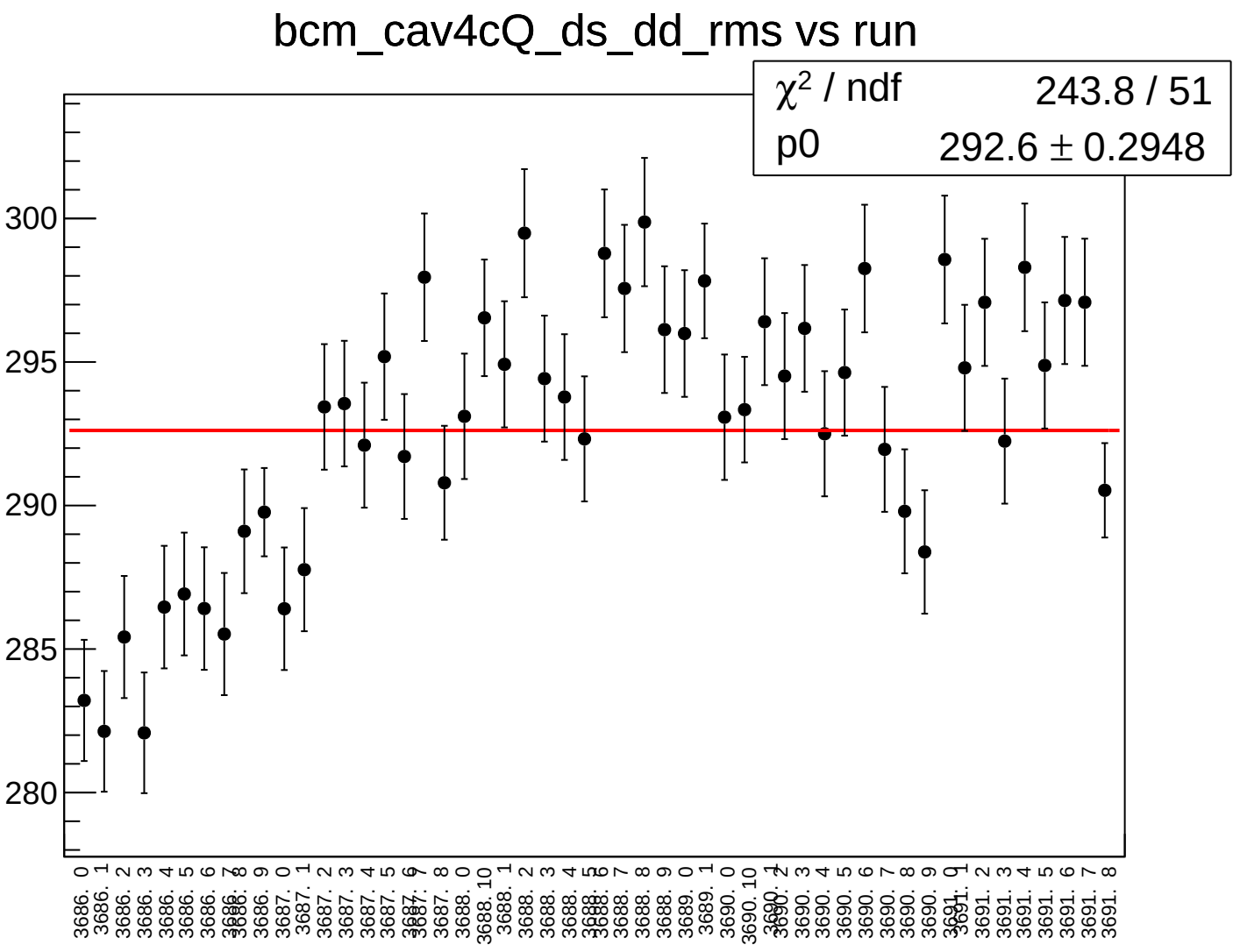

bcm_cav4cQ_ds_avg_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_cav4cQ_ds_avg_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


bcm_cav4cQ_ds_dd_mean vs run
χ² / ndf 32.91 / 51
p0 −464.4 ± 417
pull
Entries 52
Mean −333.1
Std Dev 359.7


pull1D
Entries 52
Mean −0.005608
Std Dev 0.7955


bcm_cav4cQ_ds_dd_rms vs run
χ² / ndf 243.8 / 51
p0 292.6 ± 0.2948
300
295
290
285
280
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
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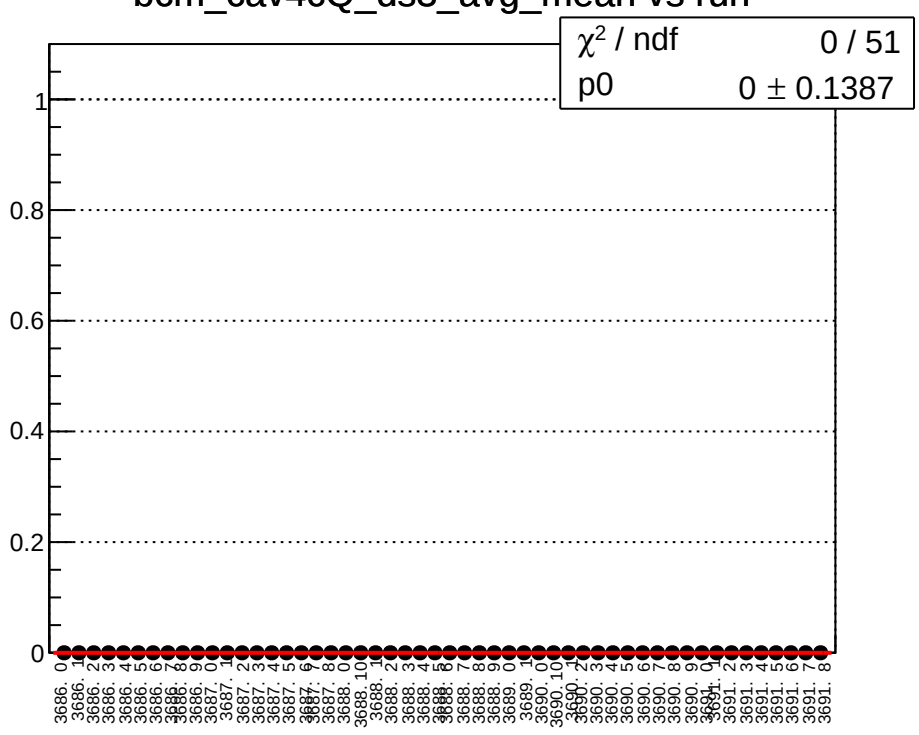
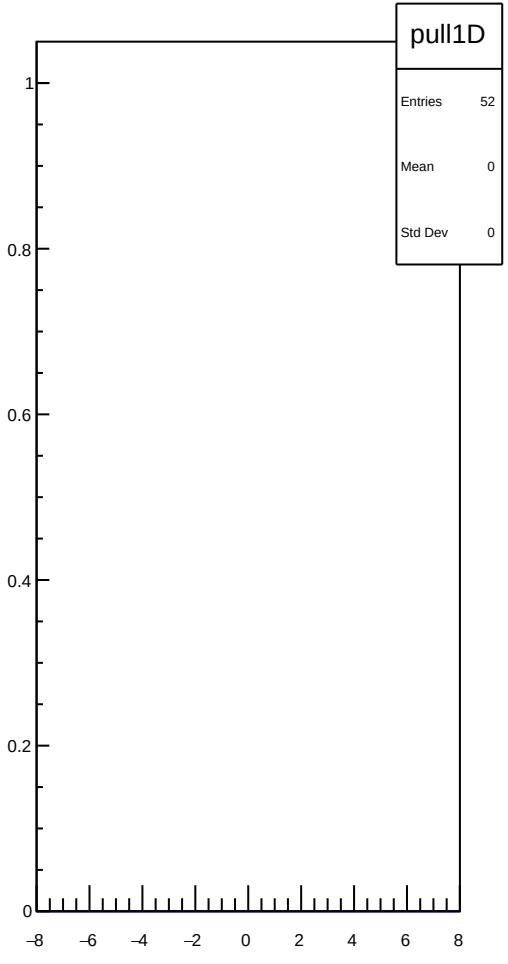
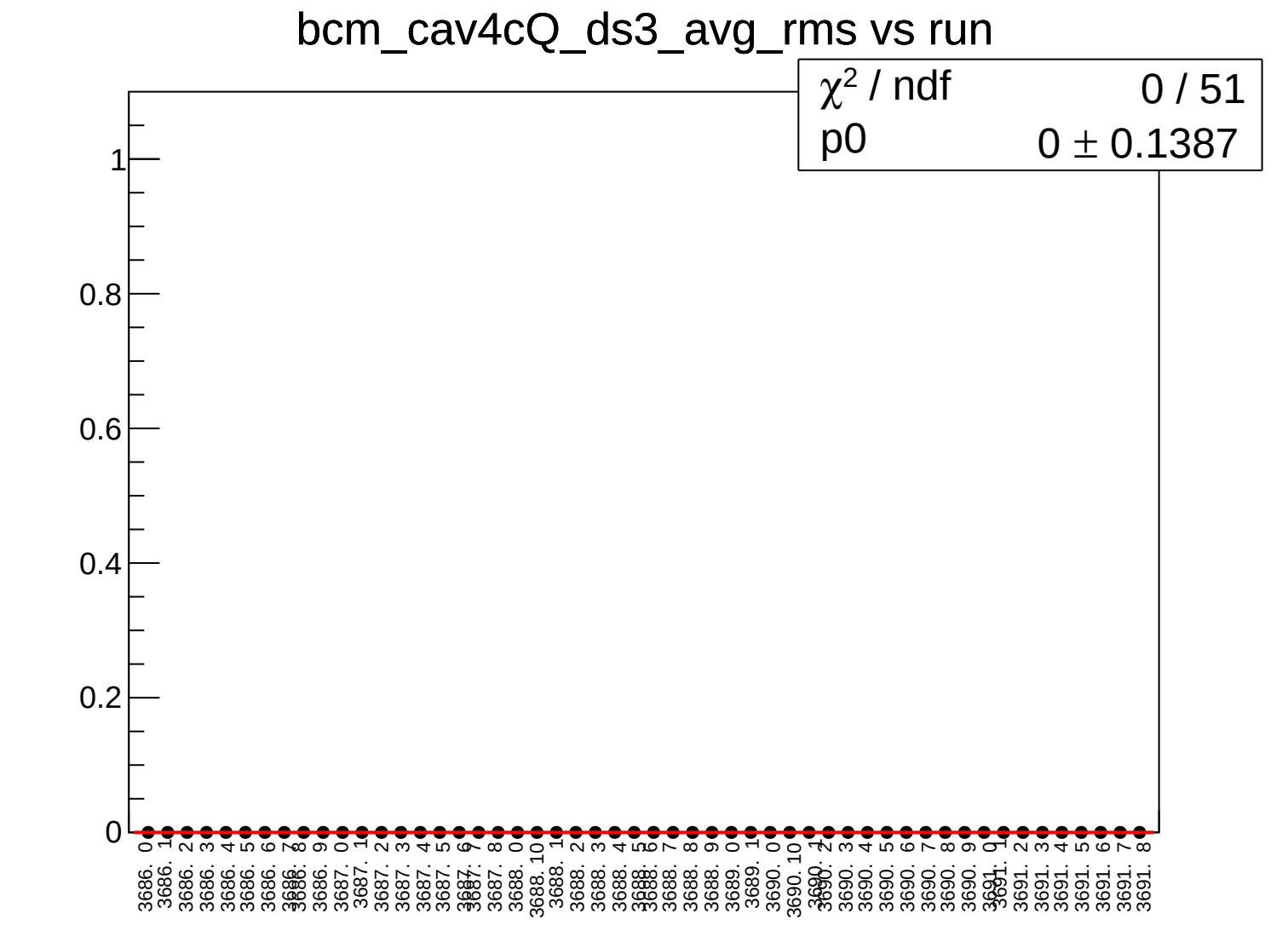
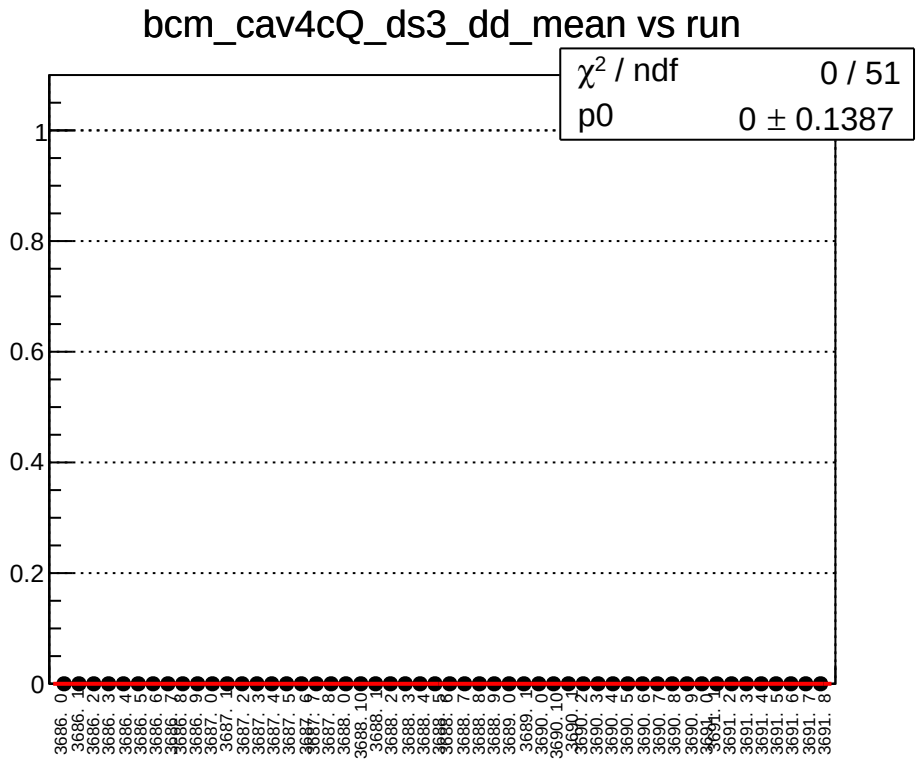
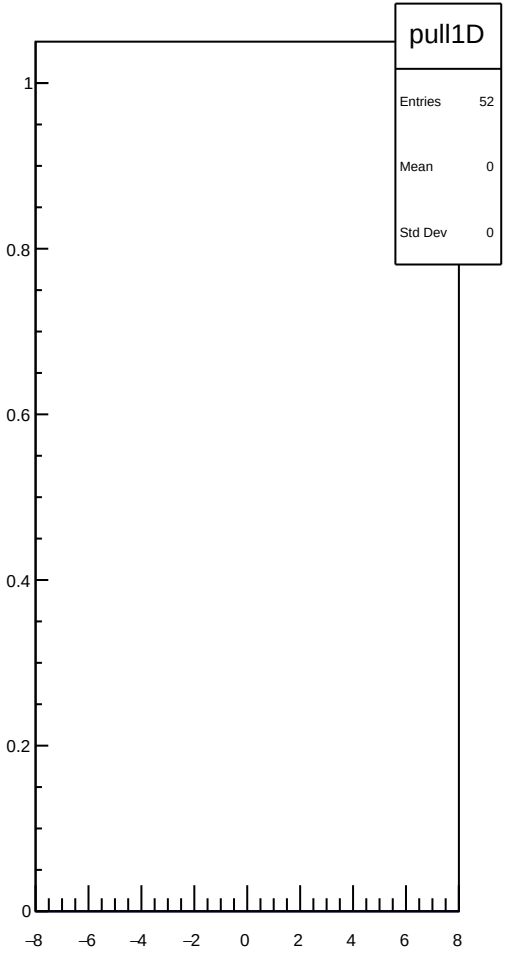
3691. 8


bcm_cav4cQ_ds3_avg_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_cav4cQ_ds3_avg_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


bcm_cav4cQ_ds3_dd_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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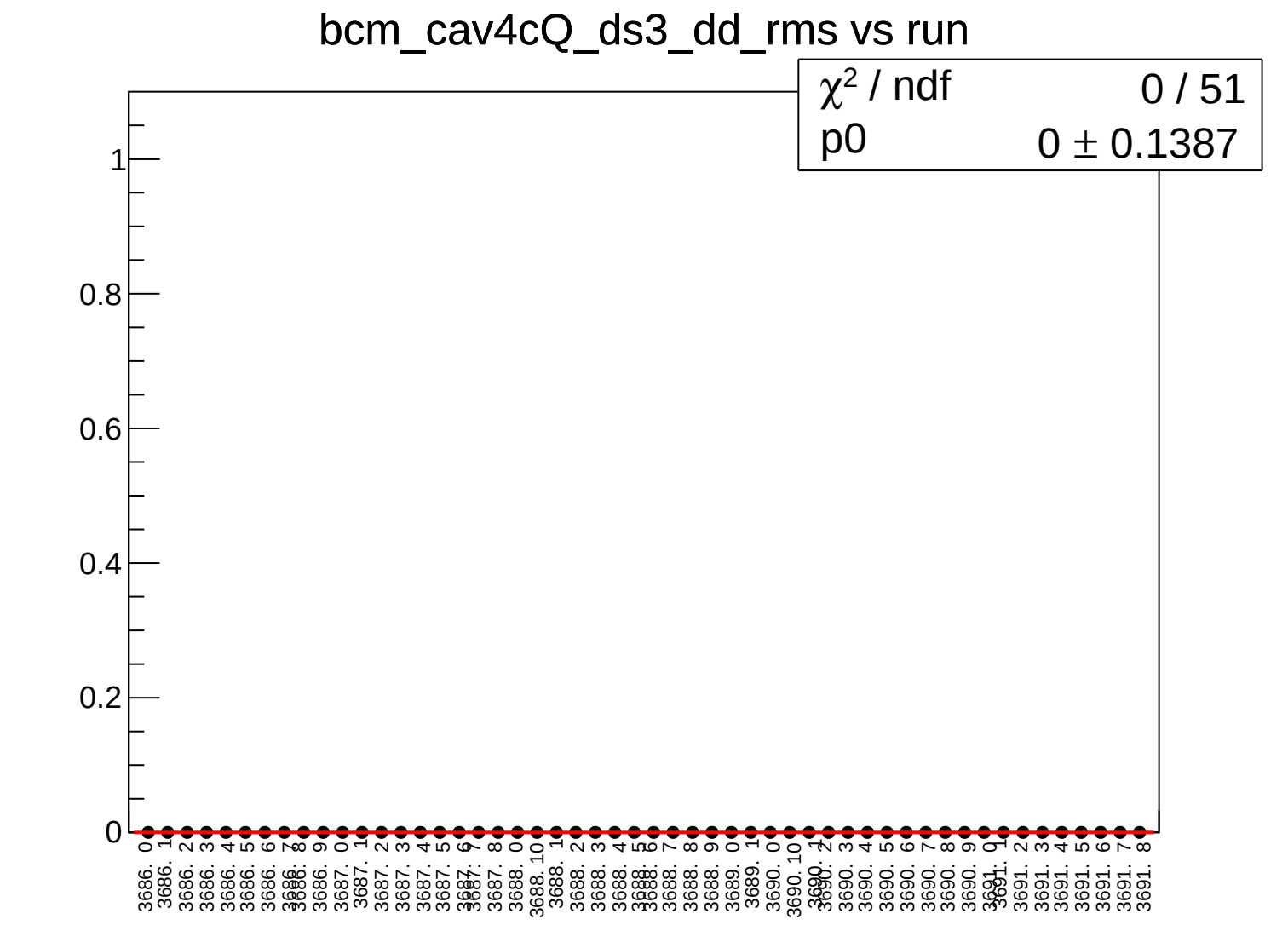
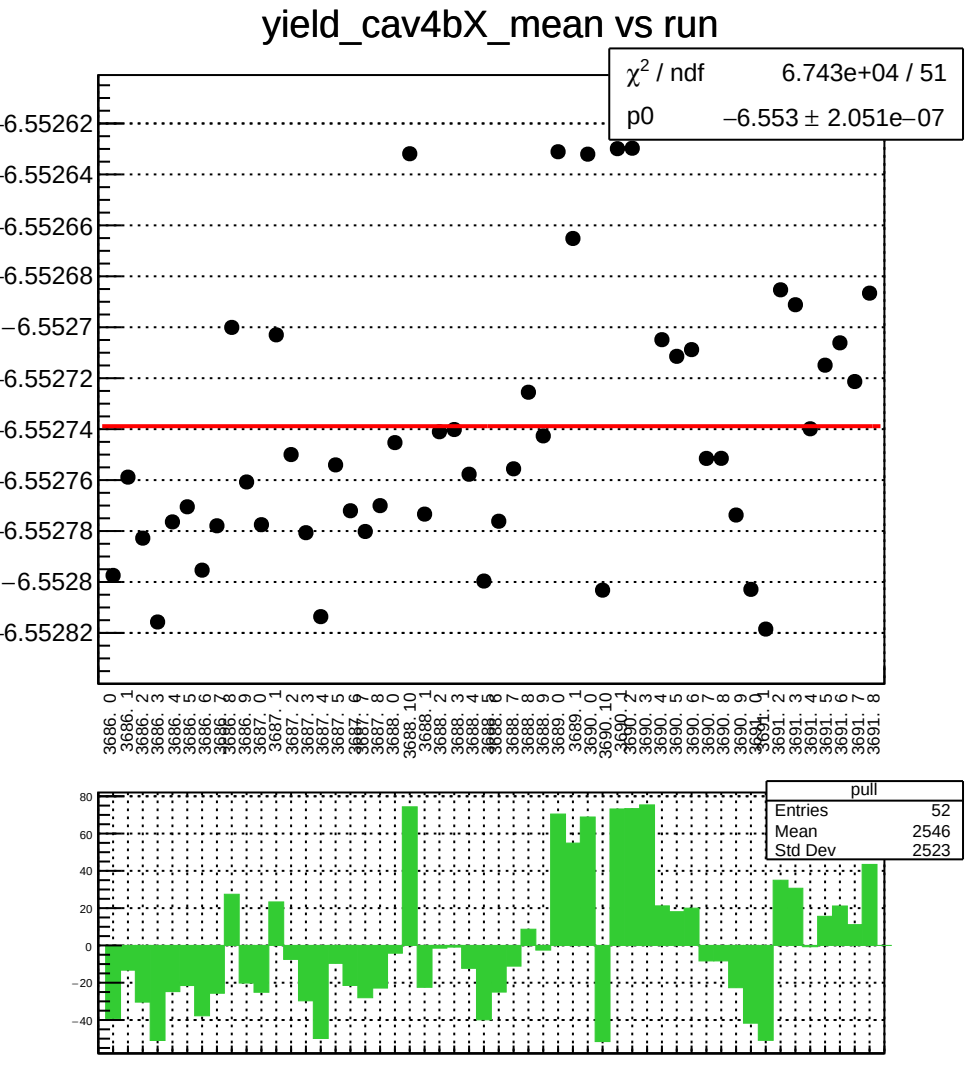
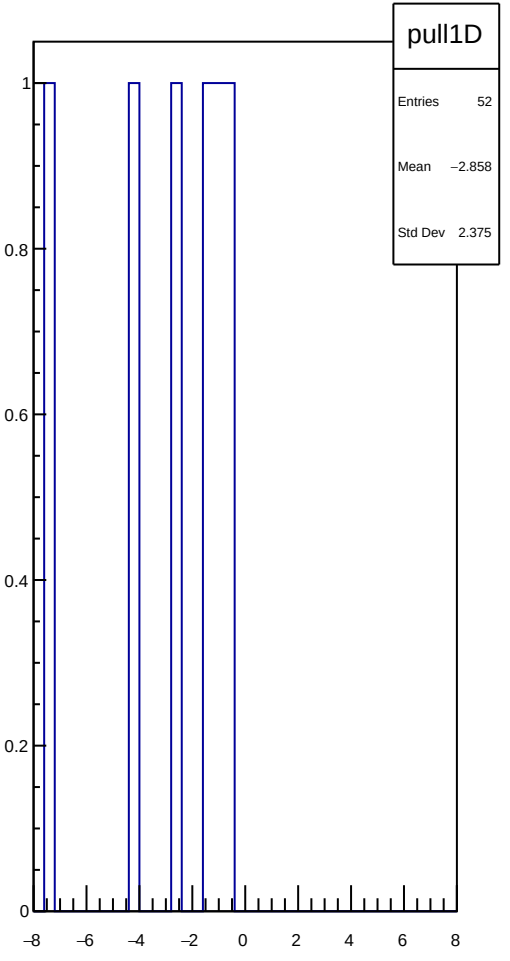
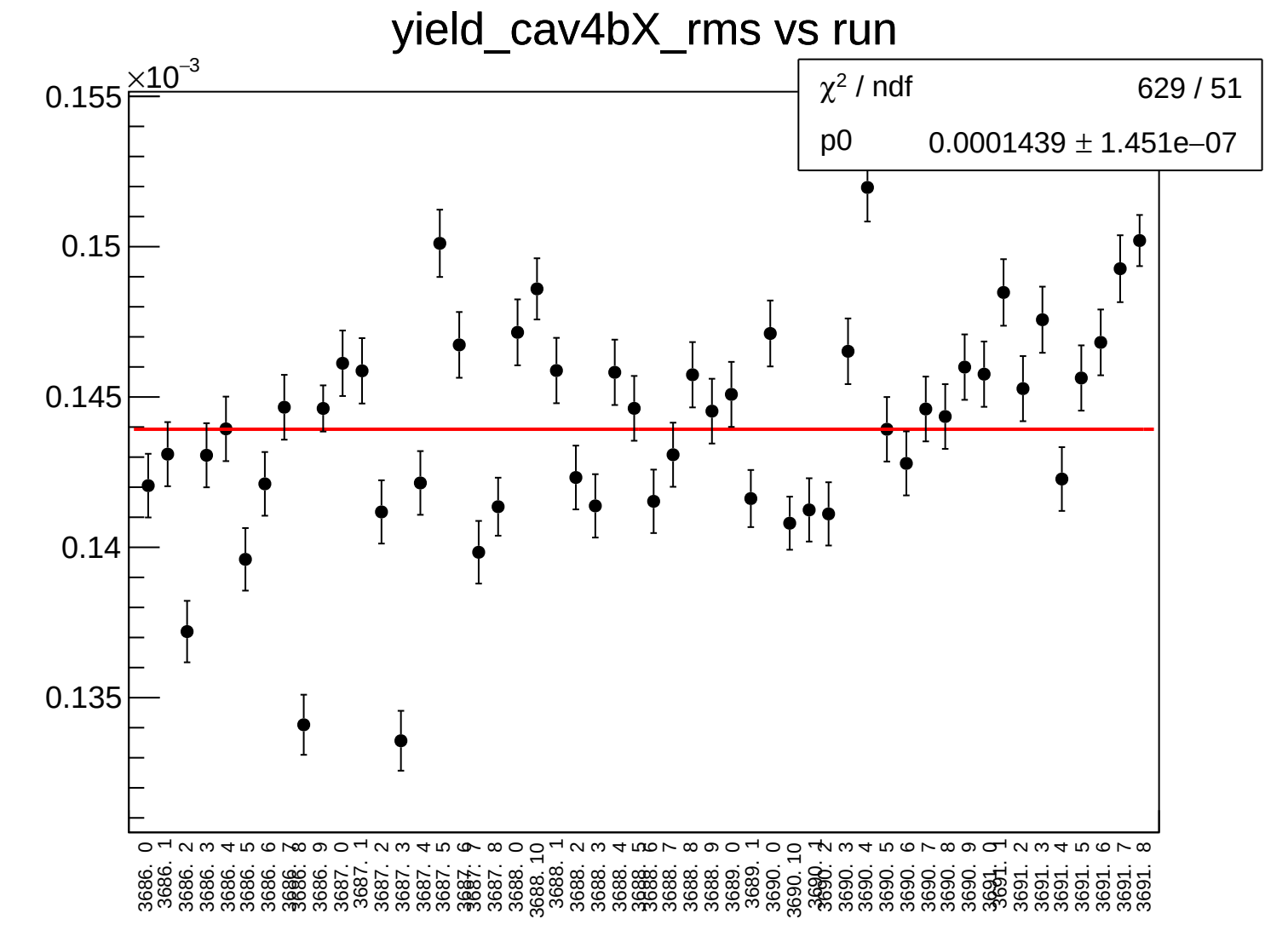
0
2
4
6
8


bcm_cav4cQ_ds3_dd_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0


yield_cav4bX_mean vs run
χ² / ndf 6.743e+04 / 51
p0 −6.553 ± 2.051e−07
−6.55262
−6.55264
−6.55266
−6.55268
−6.5527
−6.55272
−6.55274
−6.55276
−6.55278
−6.5528
−6.55282
pull
Entries 52
Mean 2546
Std Dev 2523
80
60
40
20
0
−20
−40


pull1D
Entries 52
Mean −2.858
Std Dev 2.375
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4bX_rms vs run
×10⁻³
0.155
0.15
0.145
0.14
0.135
χ² / ndf 629 / 51
p0 0.0001439 ± 1.451e−07
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
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3691. 1
3691. 2
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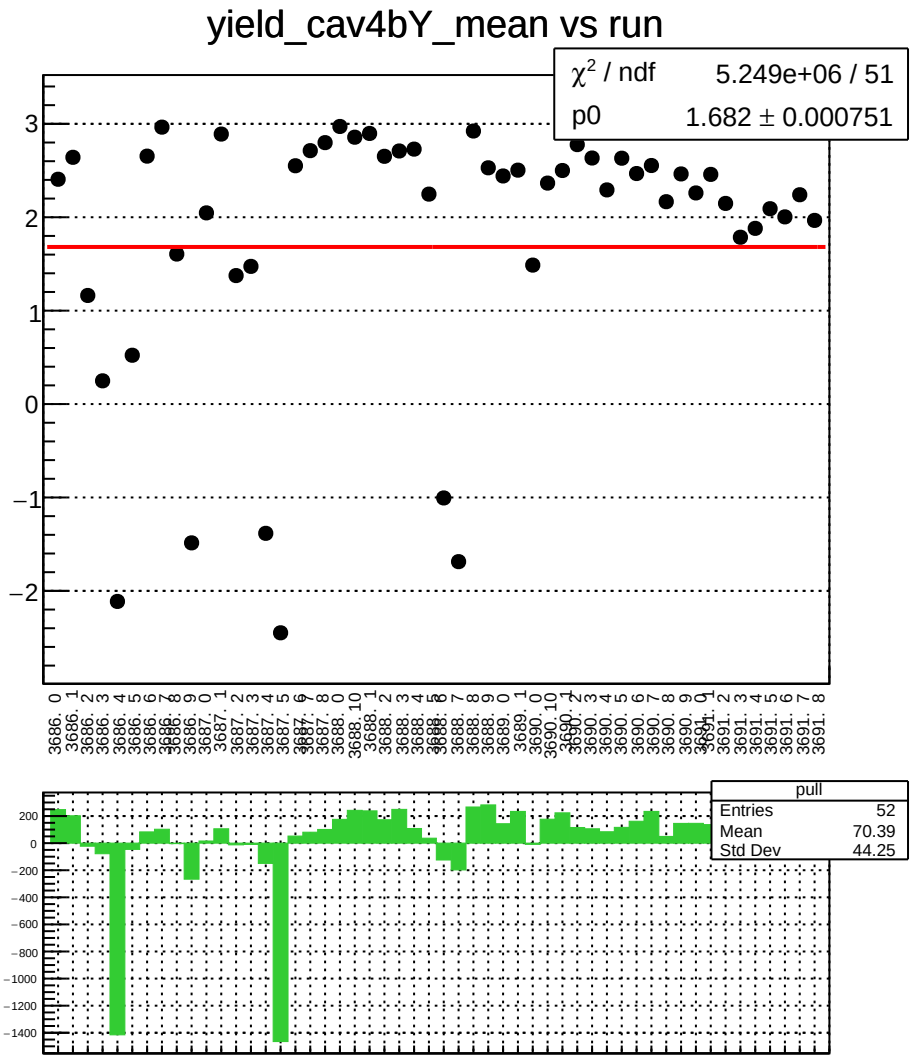
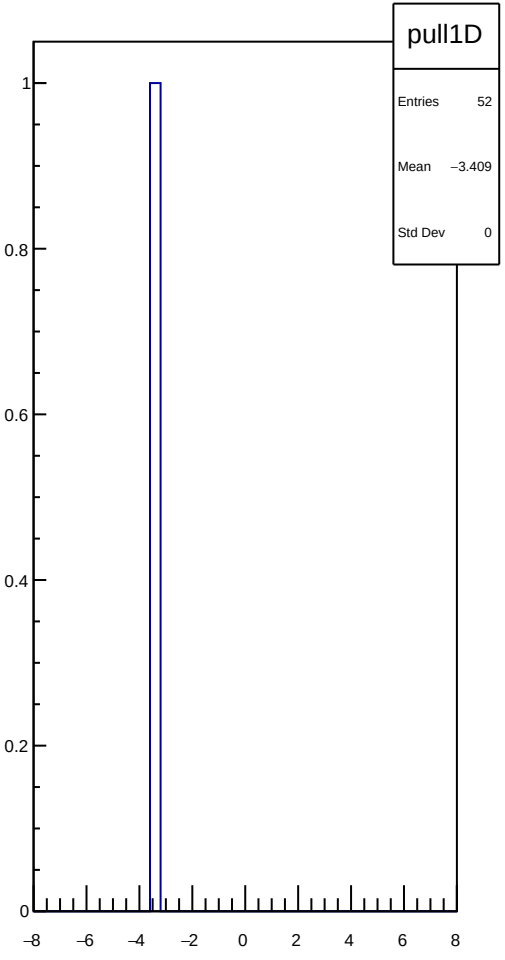
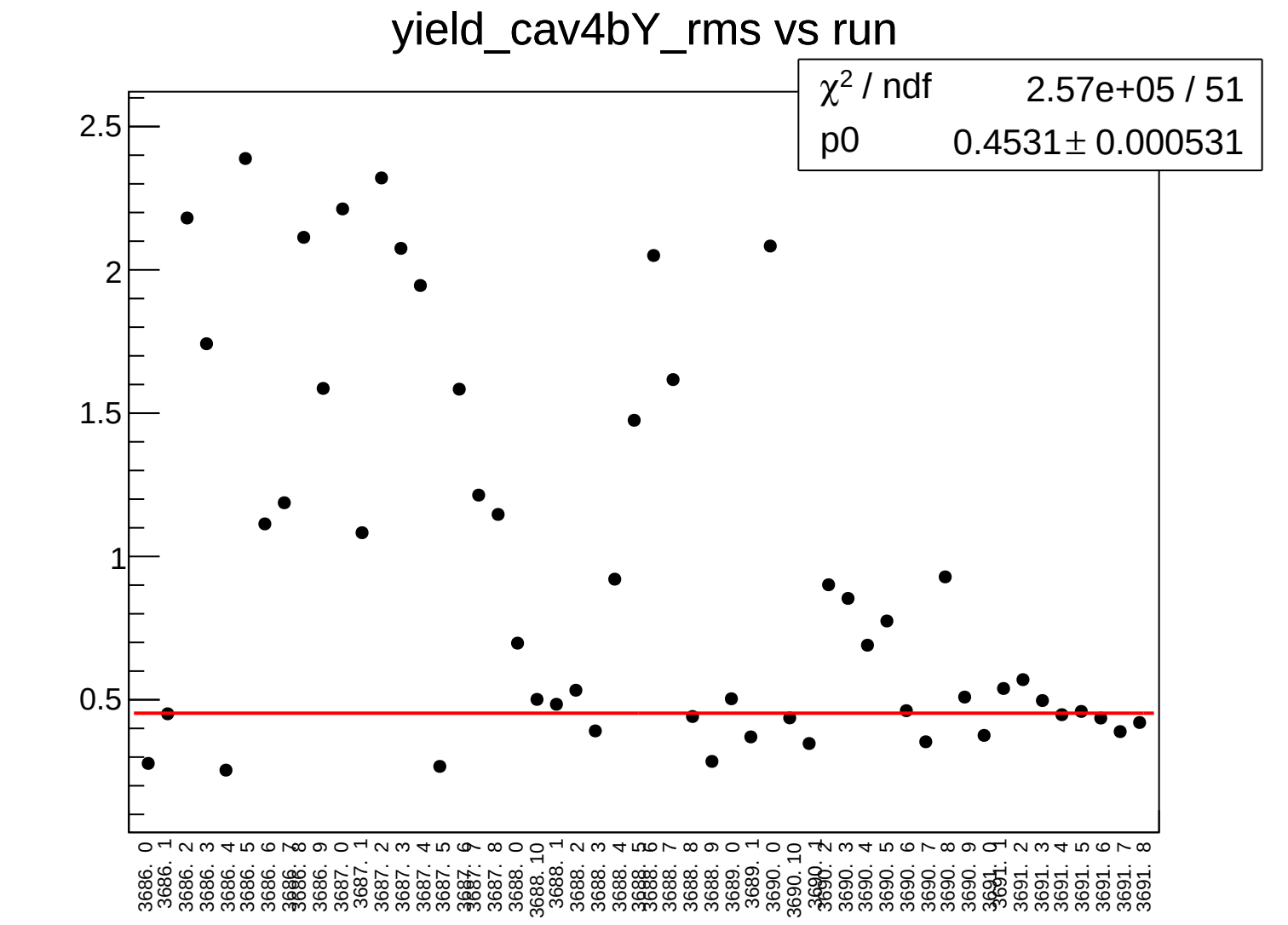
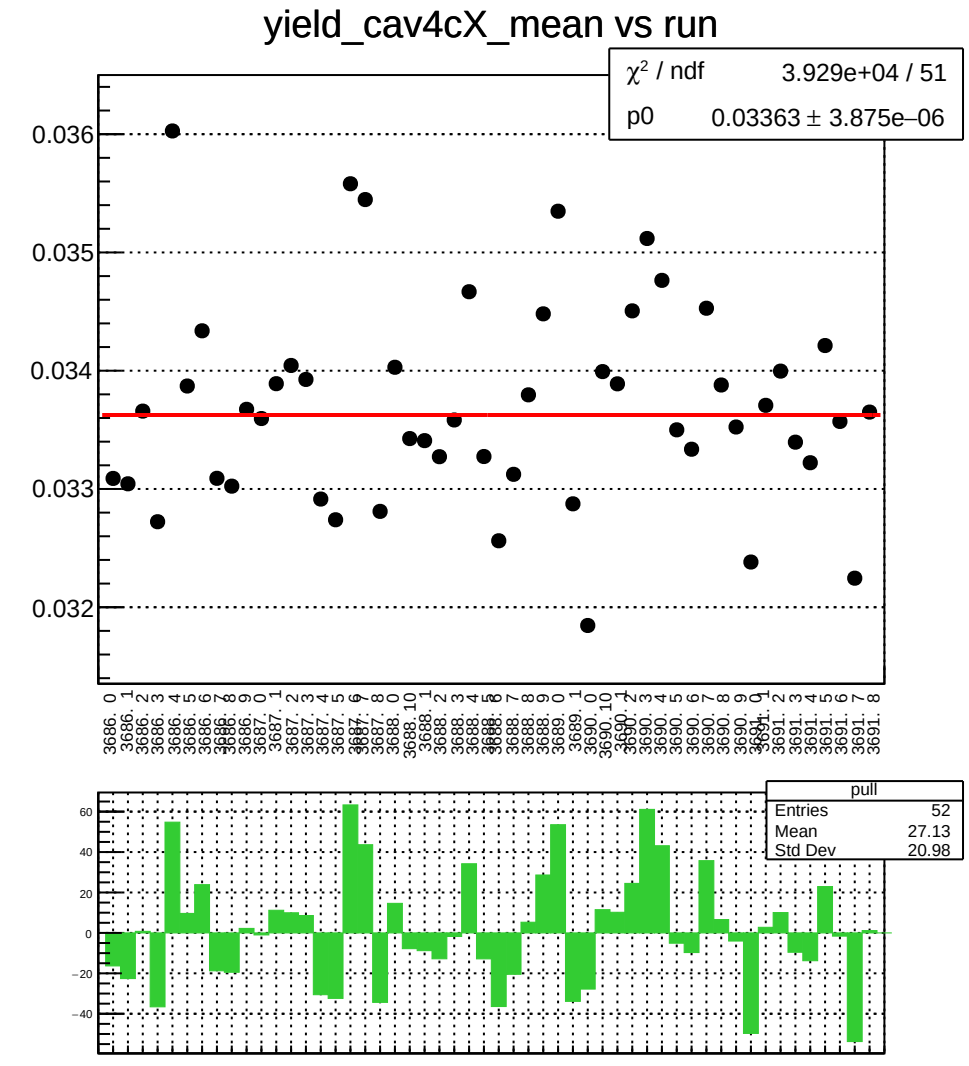
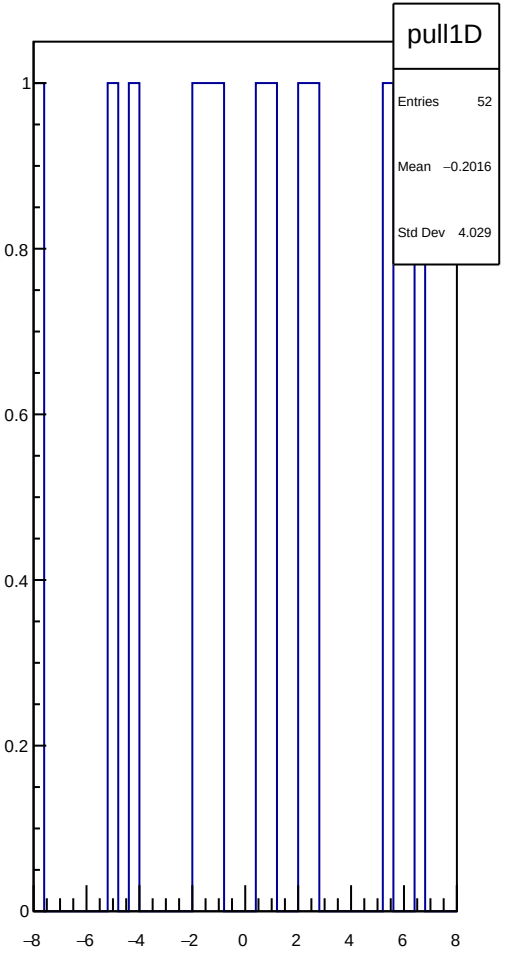
3691. 8

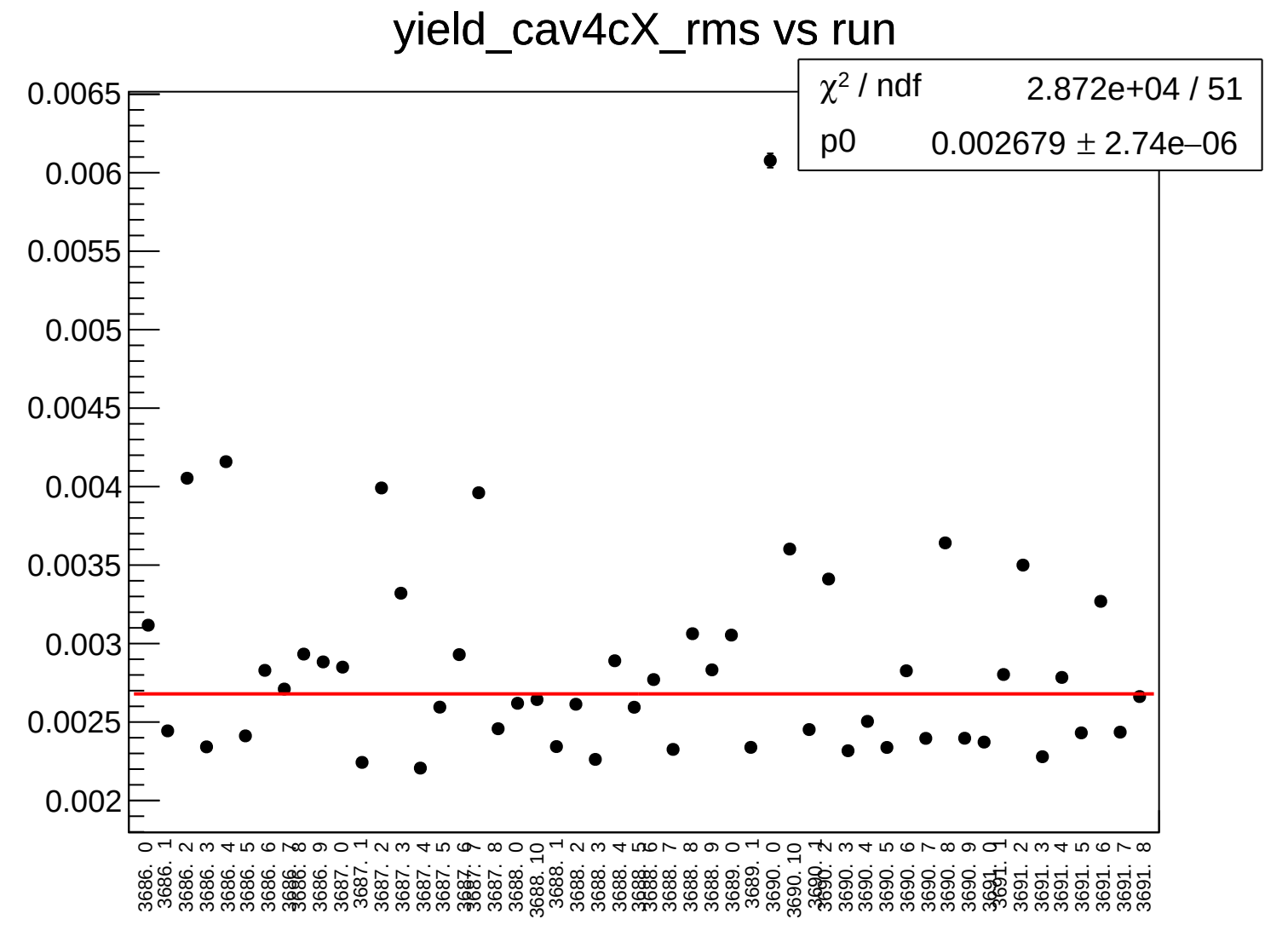

yield_cav4bY_mean vs run
χ² / ndf 5.249e+06 / 51
p0 1.682 ± 0.000751
pull
Entries 52
Mean 70.39
Std Dev 44.25

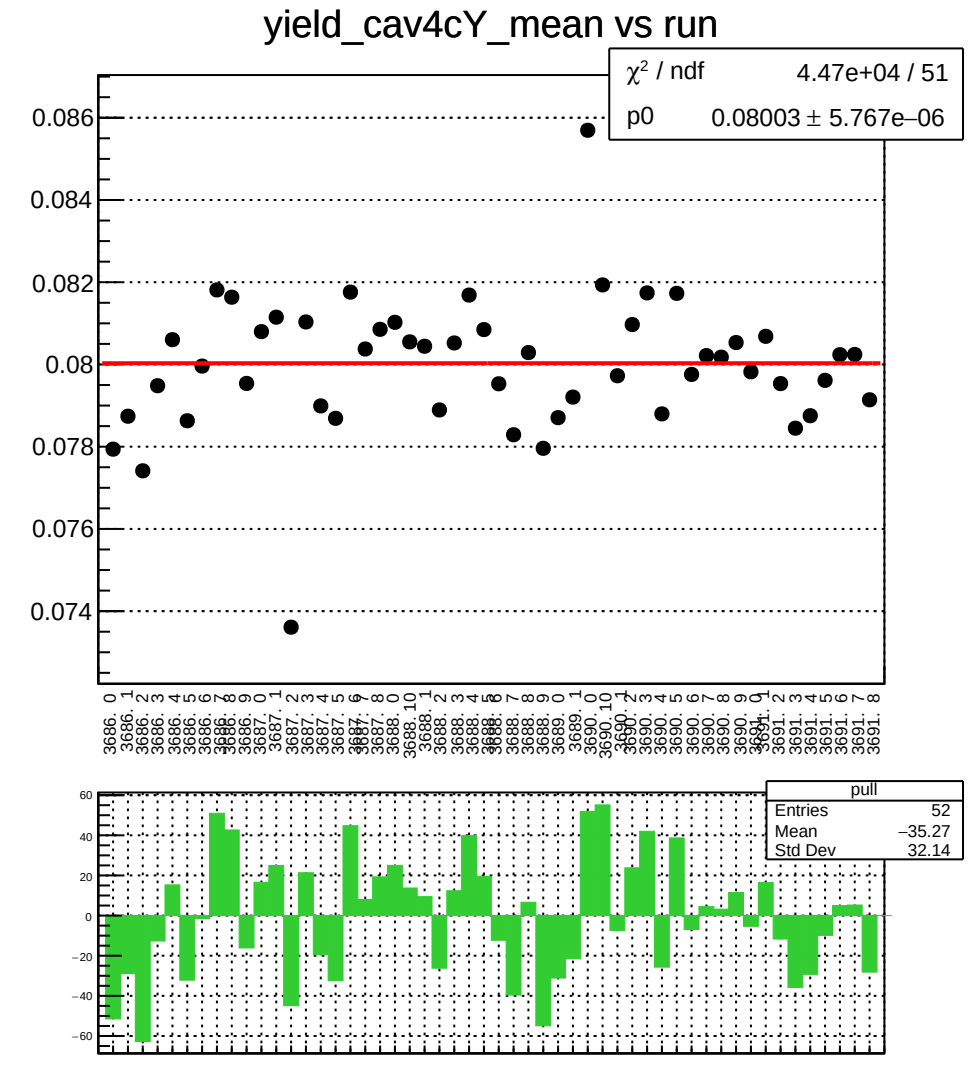

pull1D
Entries 52
Mean −3.409
Std Dev 0

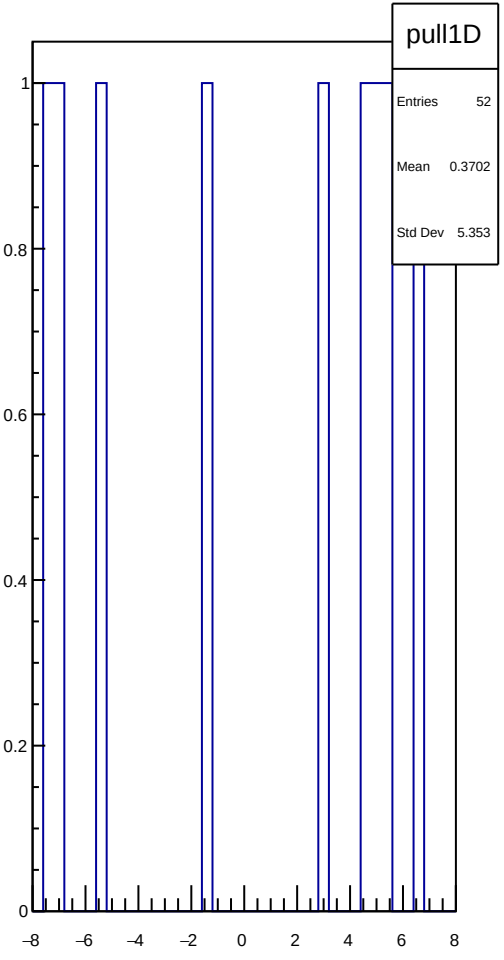

yield_cav4bY_rms vs run
χ² / ndf 2.57e+05 / 51
p0 0.4531 ± 0.000531
2.5
2
1.5
1
0.5
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

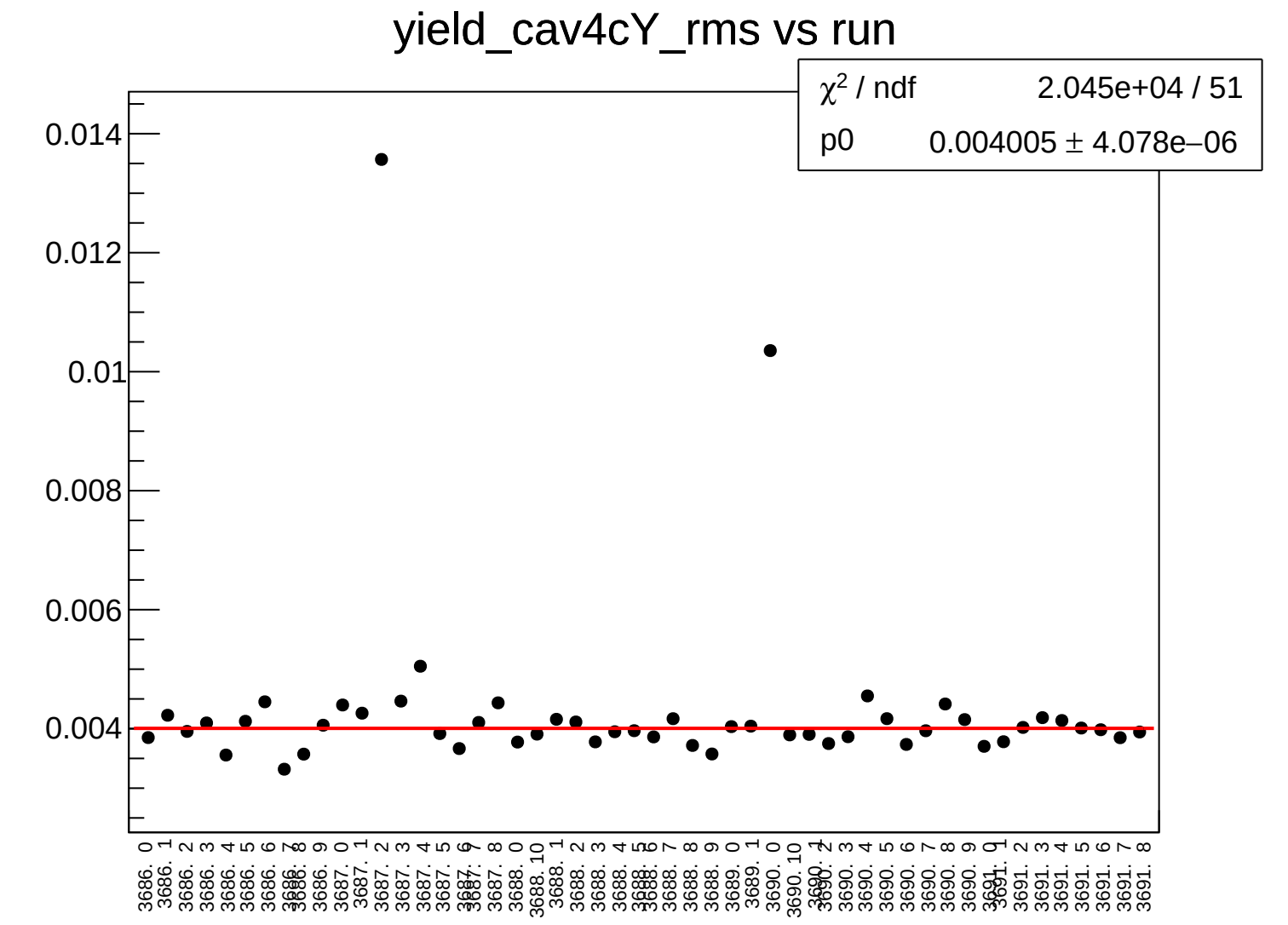

yield_cav4cX_mean vs run
χ² / ndf 3.929e+04 / 51
p0 0.03363 ± 3.875e−06
0.036
0.035
0.034
0.033
0.032
pull
Entries 52
Mean 27.13
Std Dev 20.98
60
40
20
0
−20
−40

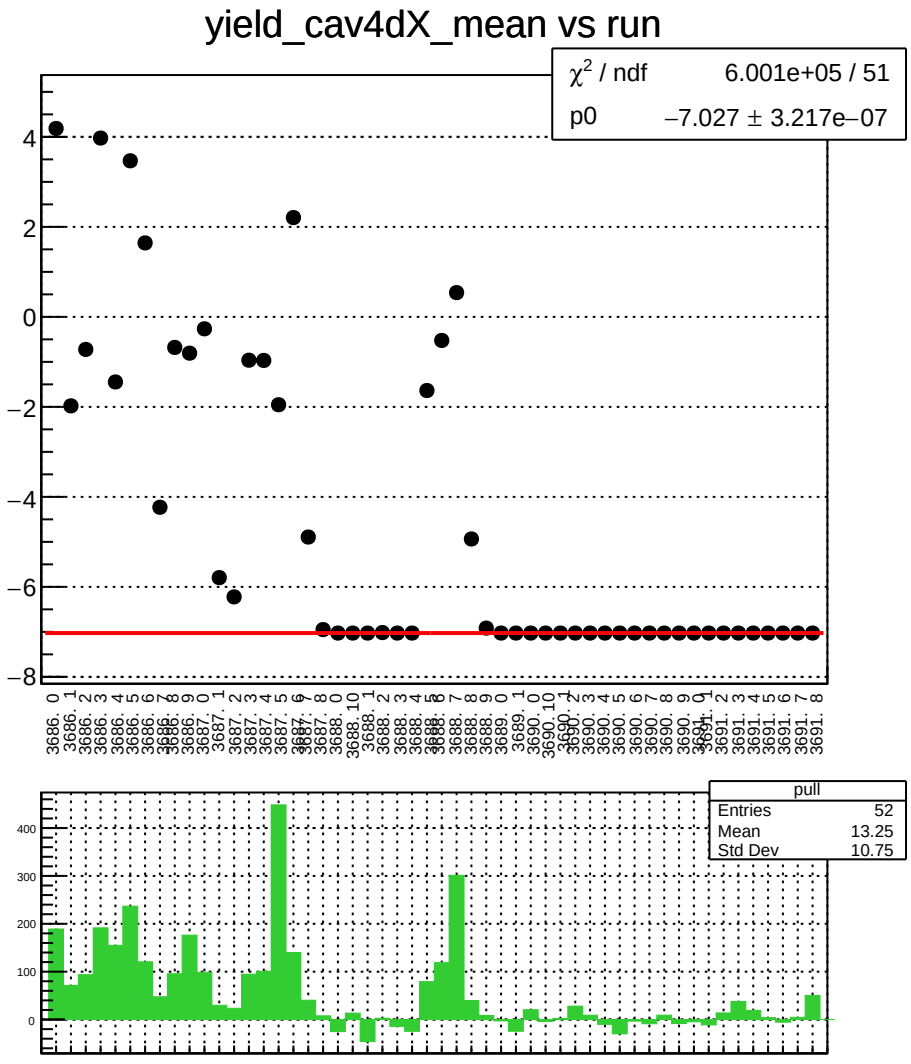

pull1D
Entries 52
Mean −0.2016
Std Dev 4.029
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

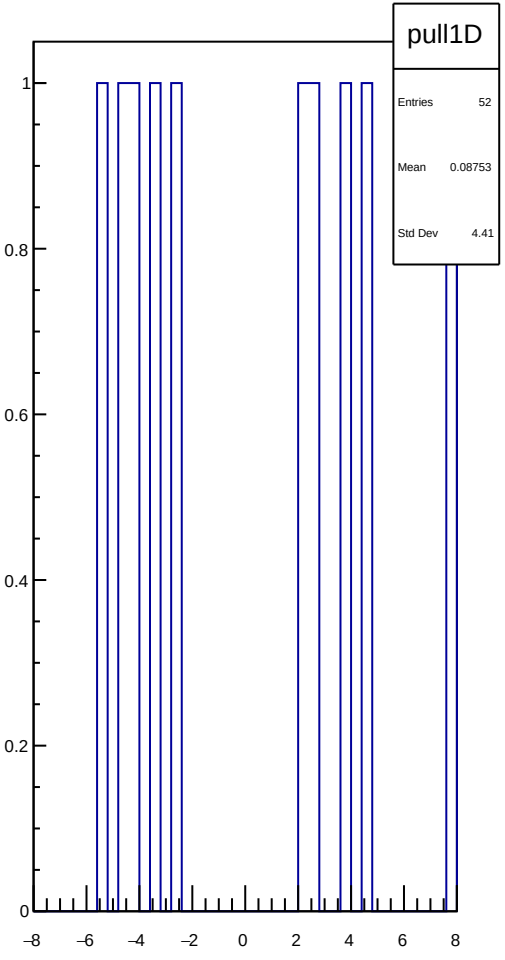

yield_cav4cX_rms vs run
χ² / ndf 2.872e+04 / 51
p0 0.002679 ± 2.74e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

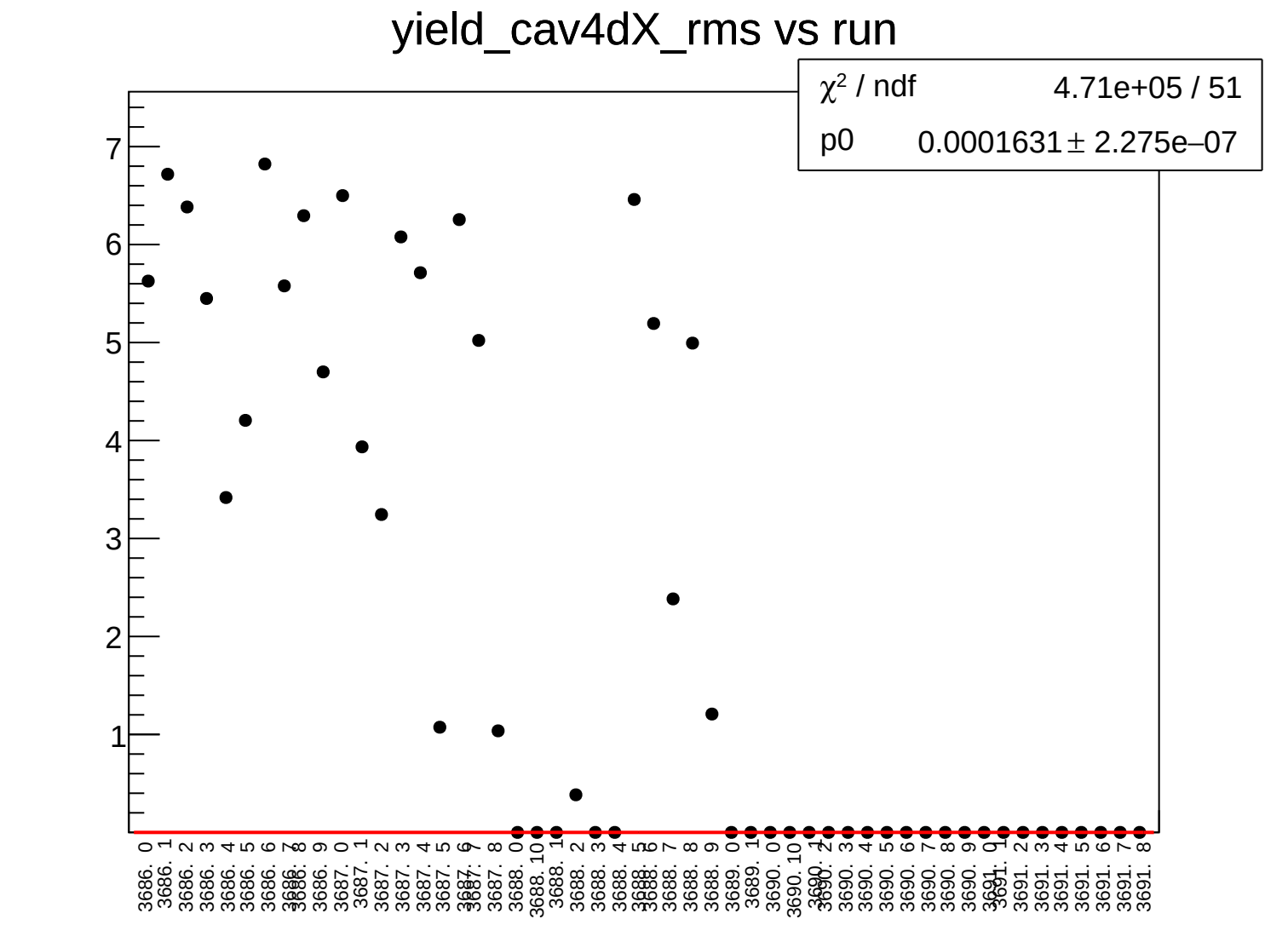

yield_cav4cY_mean vs run
χ² / ndf 4.47e+04 / 51
p0 0.08003 ± 5.767e−06
0.086
0.084
0.082
0.08
0.078
0.076
0.074
pull
Entries 52
Mean −35.27
Std Dev 32.14
60
40
20
0
−20
−40
−60

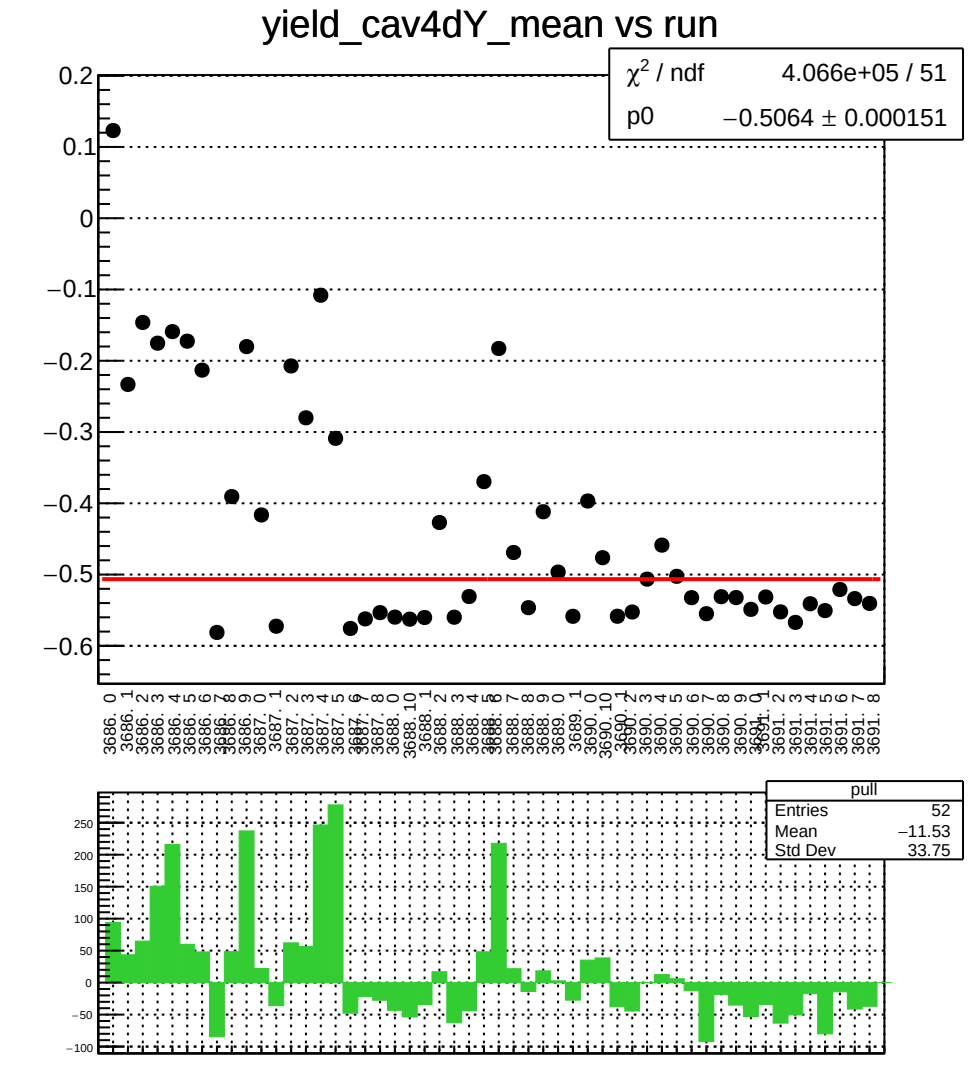

pull1D
Entries 52
Mean 0.3702
Std Dev 5.353
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

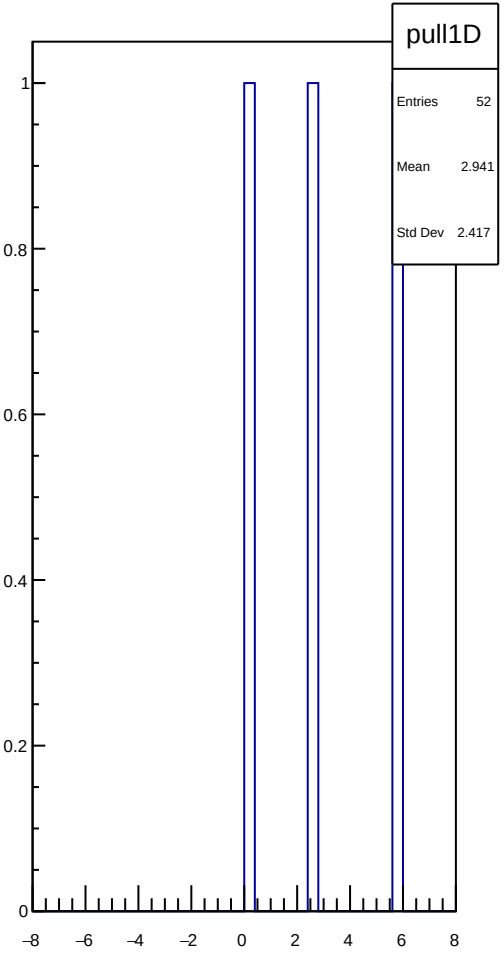

yield_cav4cY_rms vs run
χ² / ndf 2.045e+04 / 51
p0 0.004005 ± 4.078e−06
0.014
0.012
0.01
0.008
0.006
0.004
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

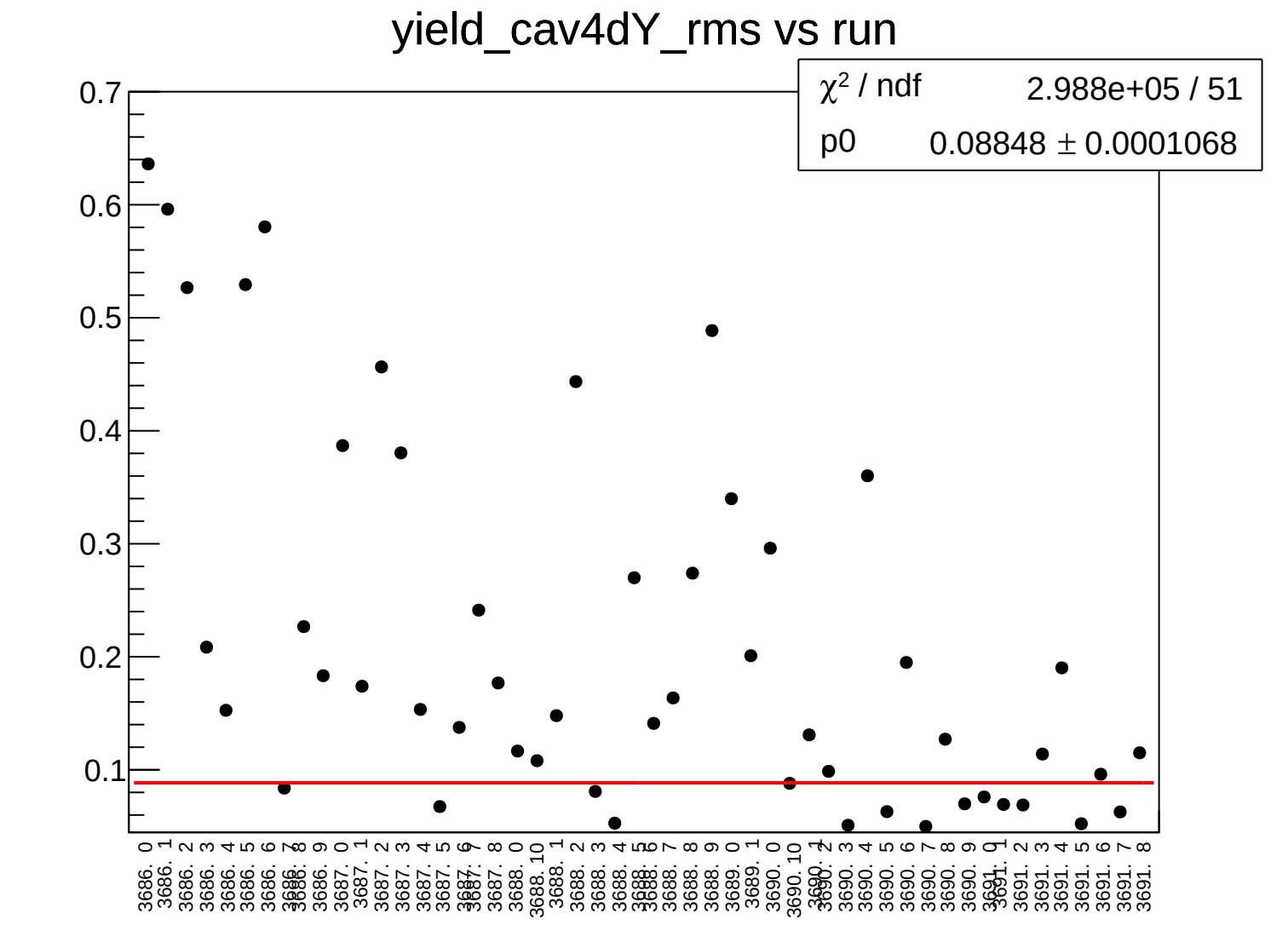

yield_cav4dX_mean vs run
χ² / ndf 6.001e+05 / 51
p0 −7.027 ± 3.217e−07
pull
Entries 52
Mean 13.25
Std Dev 10.75

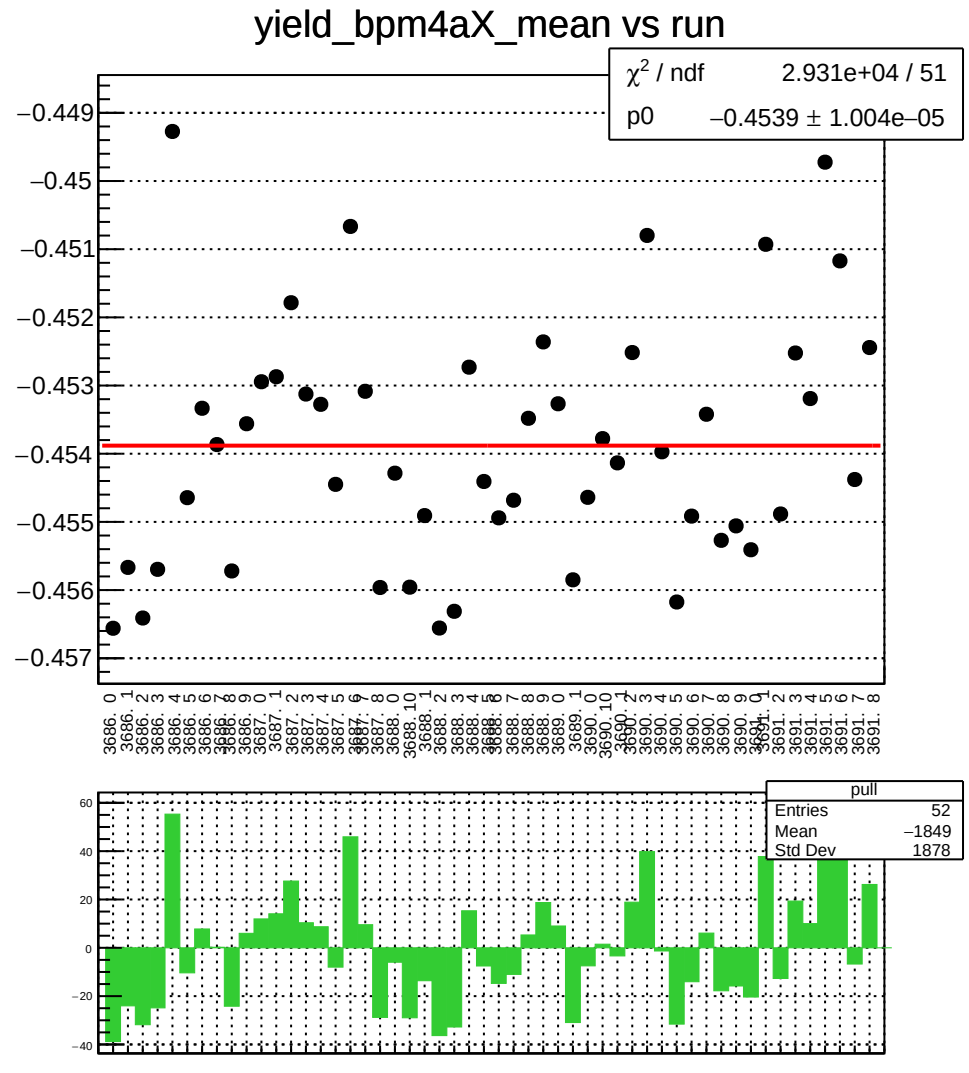

pull1D
Entries 52
Mean 0.08753
Std Dev 4.41

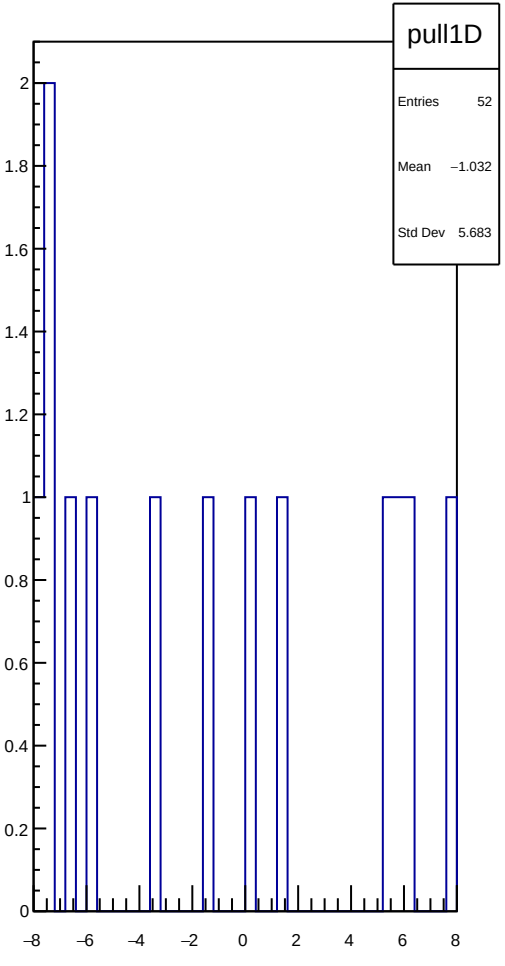

yield_cav4dX_rms vs run
χ² / ndf 4.71e+05 / 51
p0 0.0001631 ± 2.275e−07
7
6
5
4
3
2
1
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

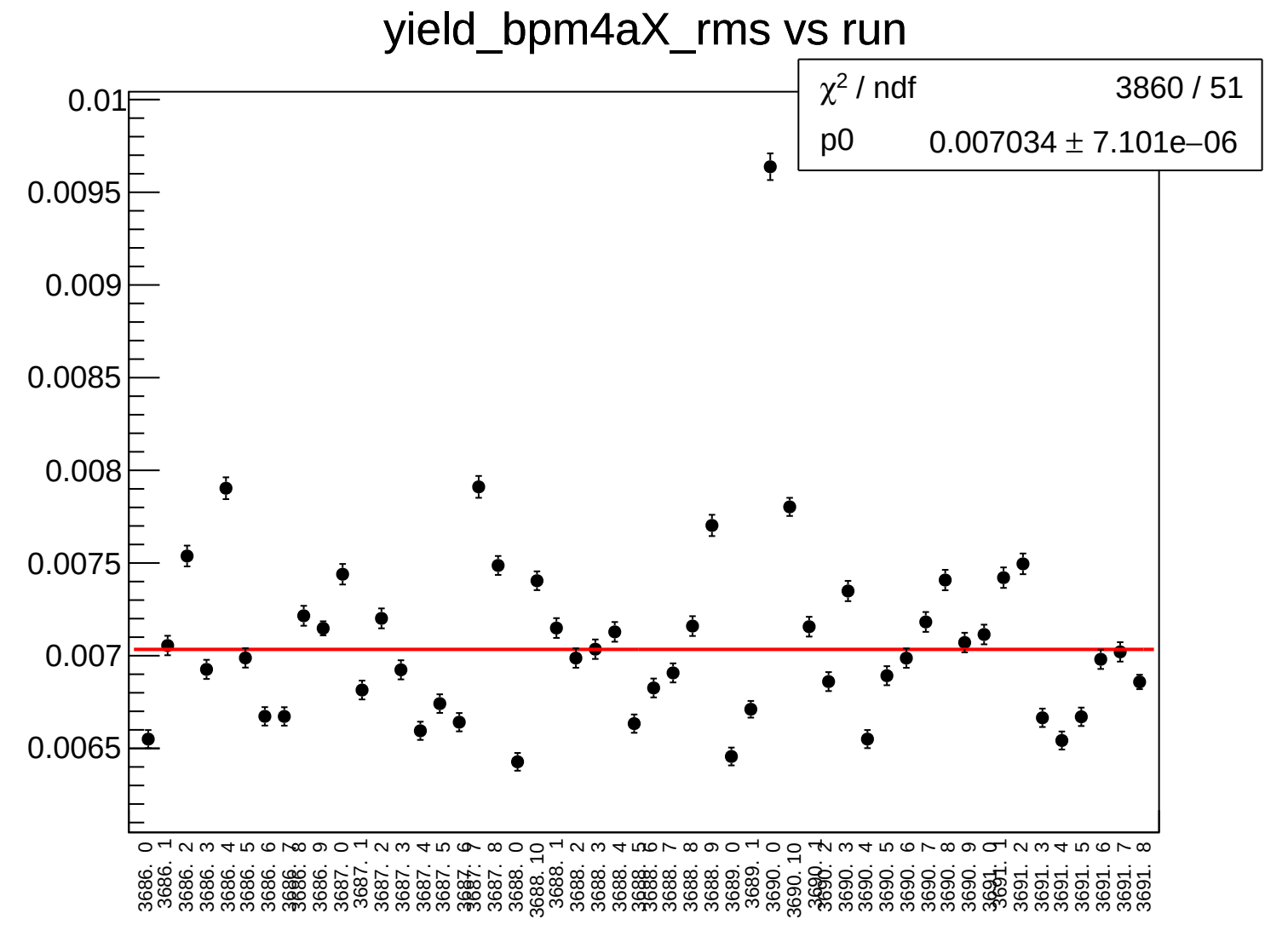

yield_cav4dY_mean vs run
χ² / ndf 4.066e+05 / 51
p0 −0.5064 ± 0.000151
pull
Entries 52
Mean −11.53
Std Dev 33.75

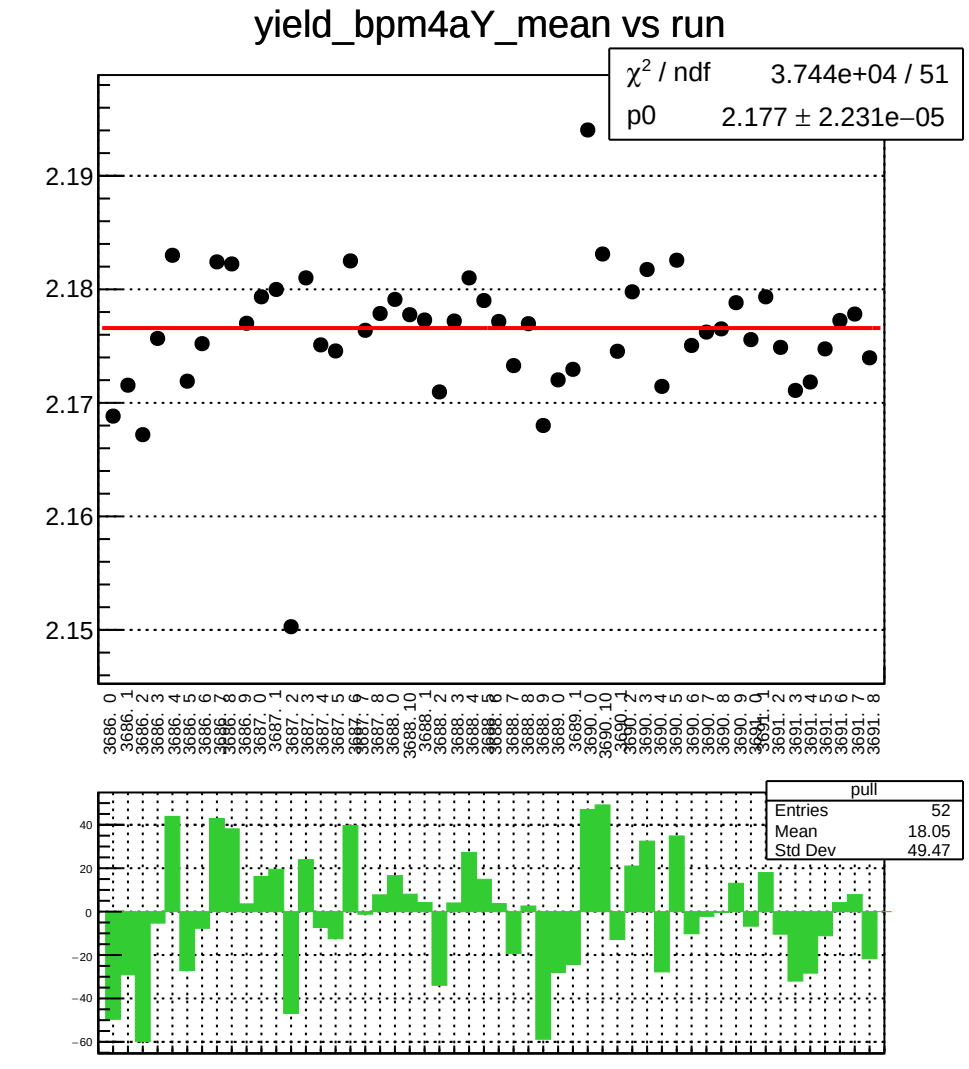

pull1D
Entries 52
Mean 2.941
Std Dev 2.417

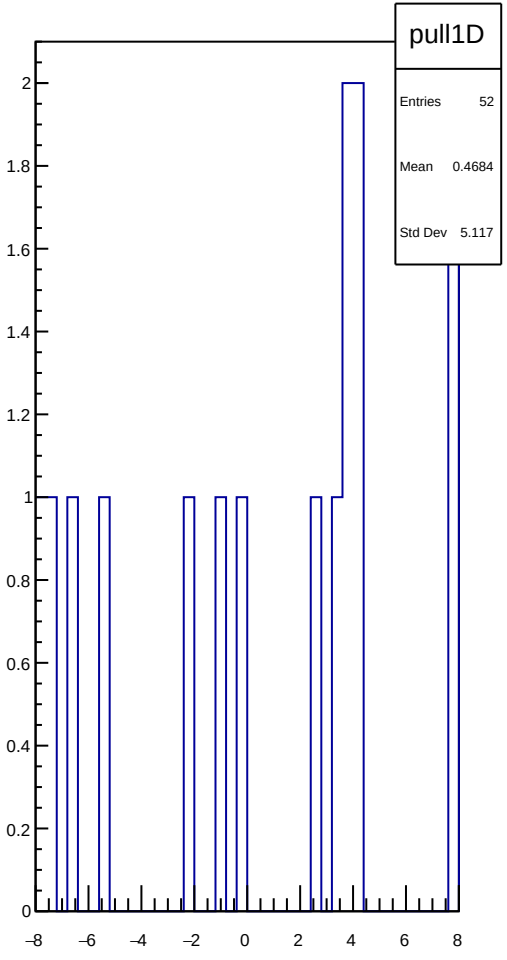

yield_cav4dY_rms vs run
χ² / ndf 2.988e+05 / 51
p0 0.08848 ± 0.0001068
0.7
0.6
0.5
0.4
0.3
0.2
0.1
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

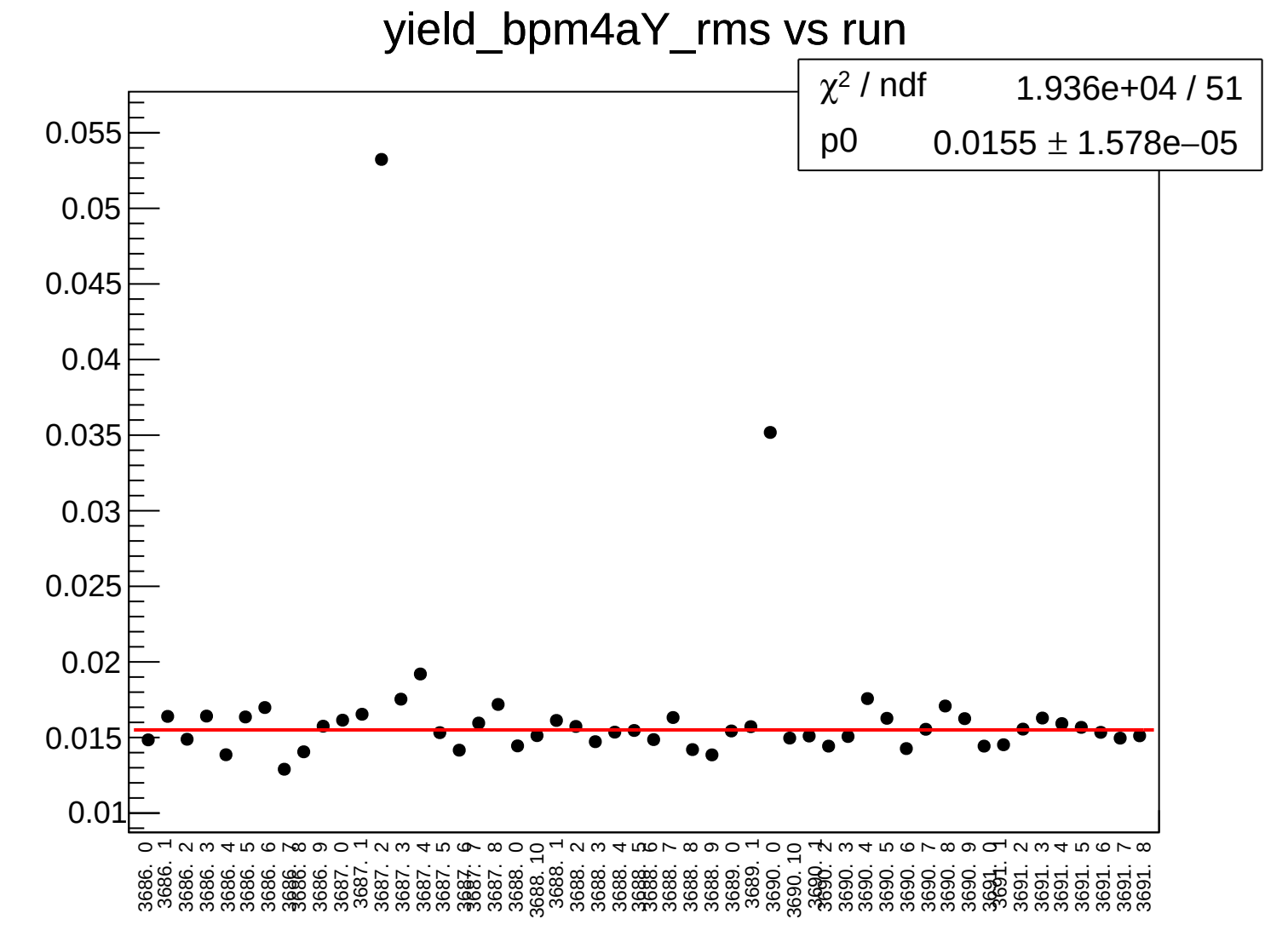

yield_bpm4aX_mean vs run
χ² / ndf 2.931e+04 / 51
p0 −0.4539 ± 1.004e−05
pull
Entries 52
Mean −1849
Std Dev 1878

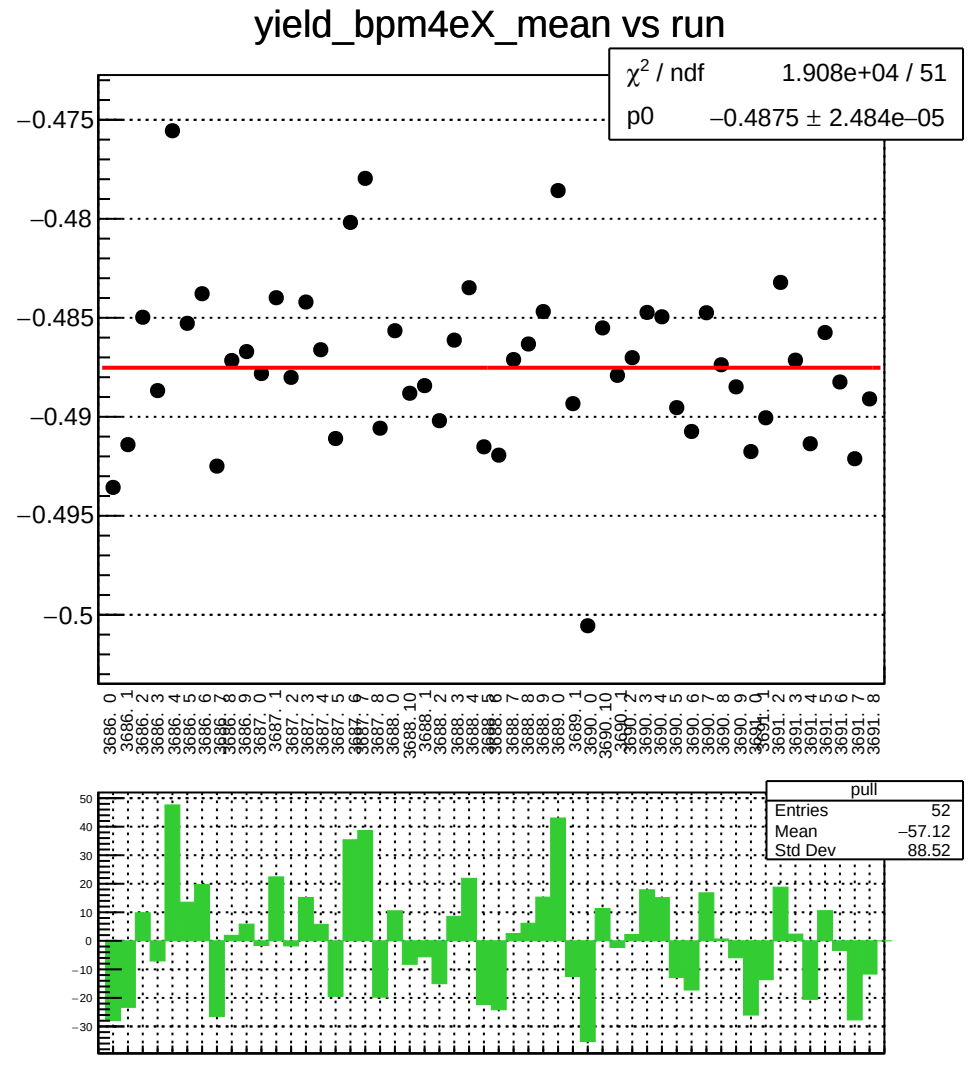

pull1D
Entries 52
Mean −1.032
Std Dev 5.683

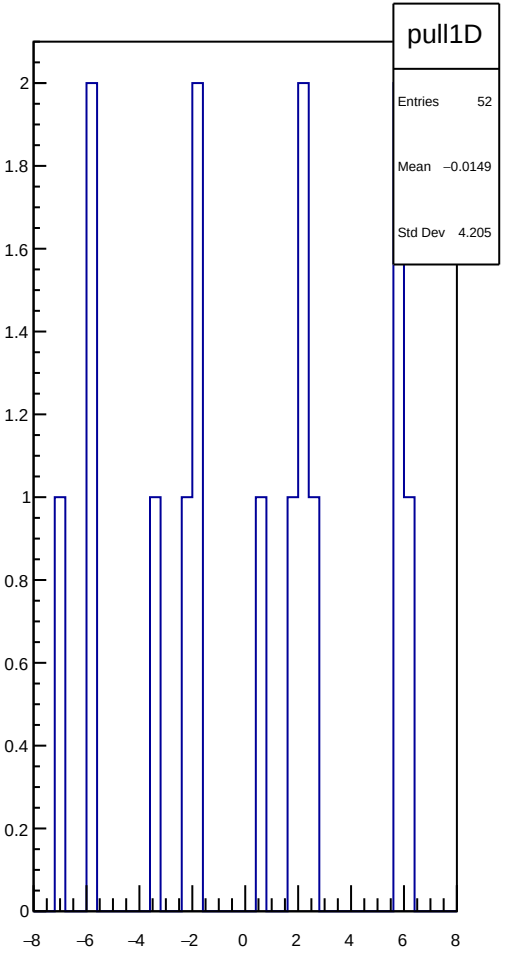

yield_bpm4aX_rms vs run
χ² / ndf 3860 / 51
p0 0.007034 ± 7.101e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

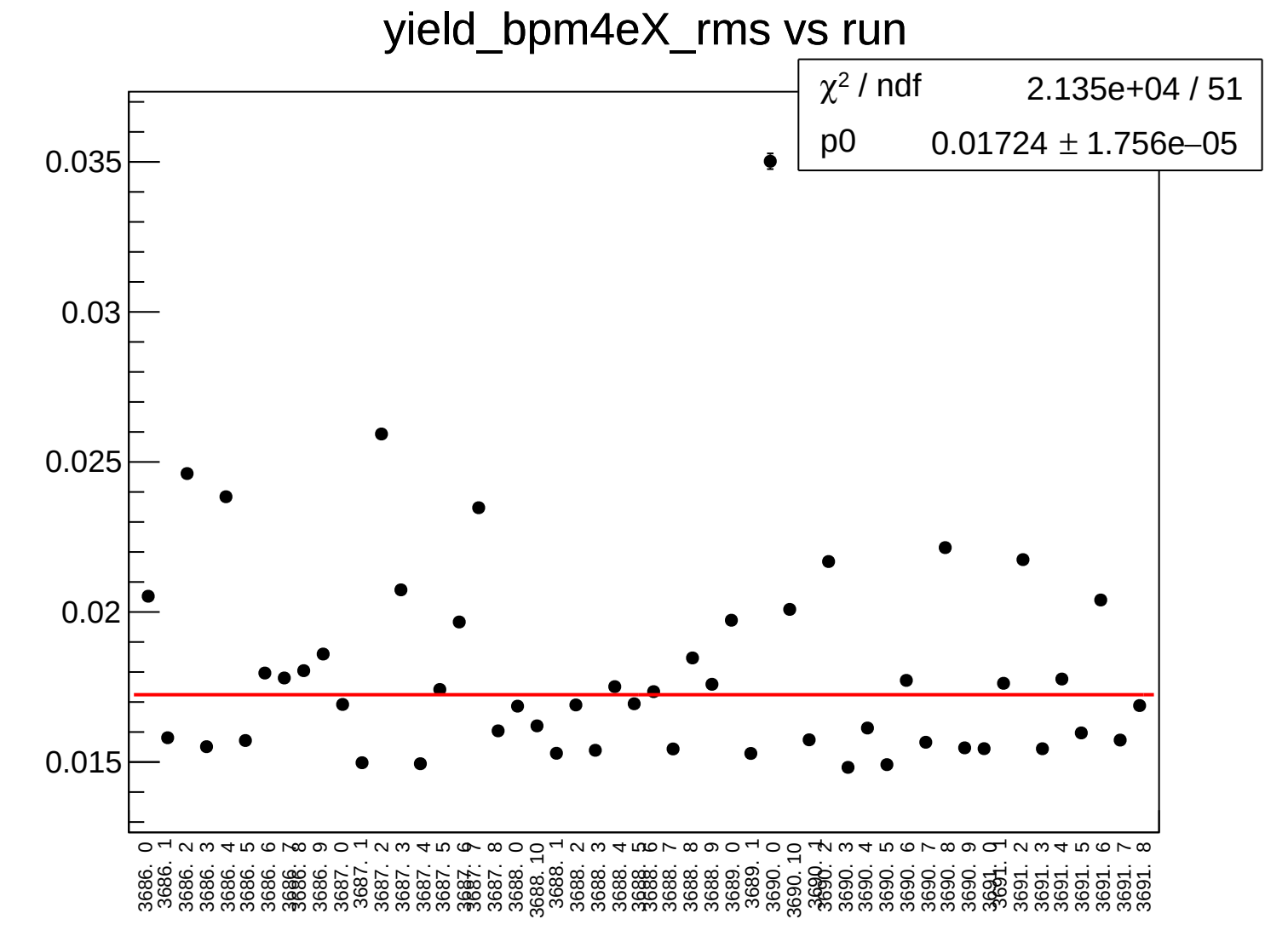

yield_bpm4aY_mean vs run
χ² / ndf 3.744e+04 / 51
p0 2.177 ± 2.231e−05
2.19
2.18
2.17
2.16
2.15
pull
Entries 52
Mean 18.05
Std Dev 49.47
40
20
0
−20
−40
−60

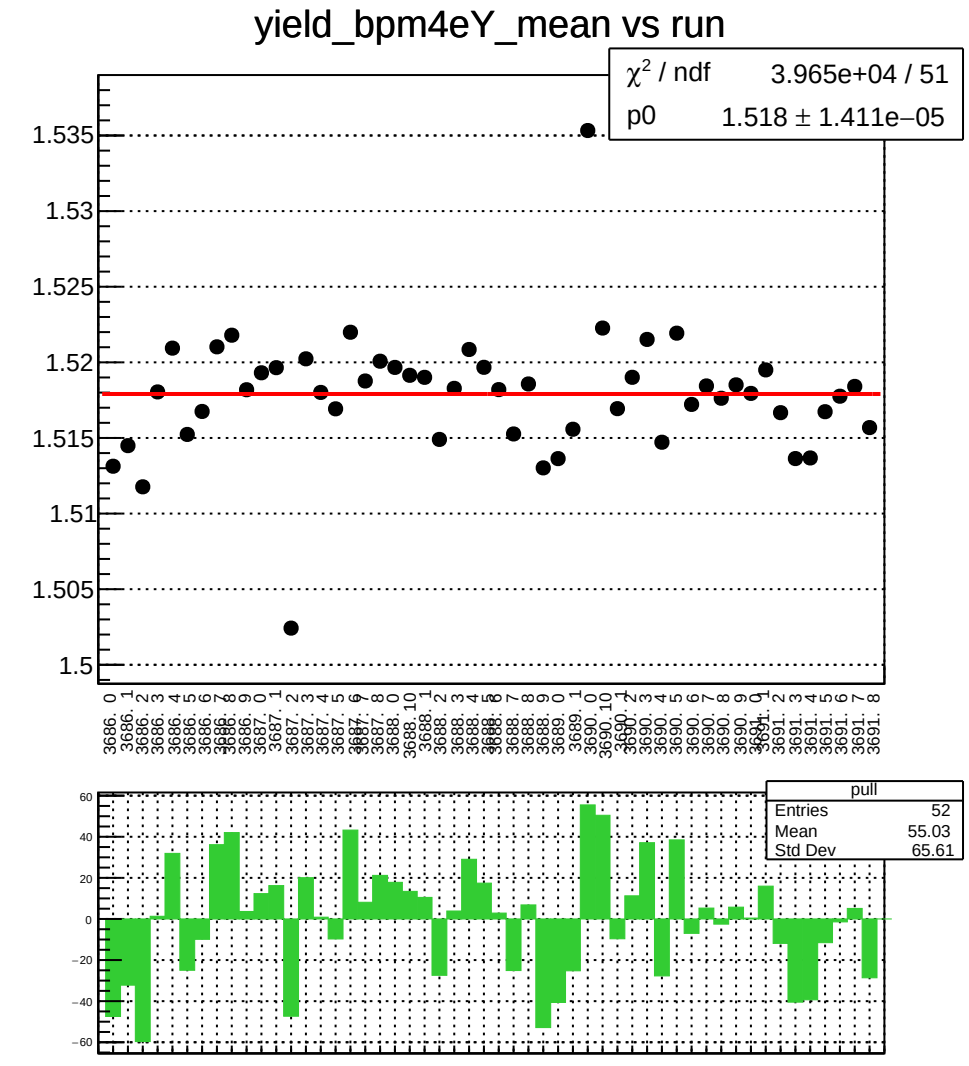

pull1D
Entries 52
Mean 0.4684
Std Dev 5.117
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

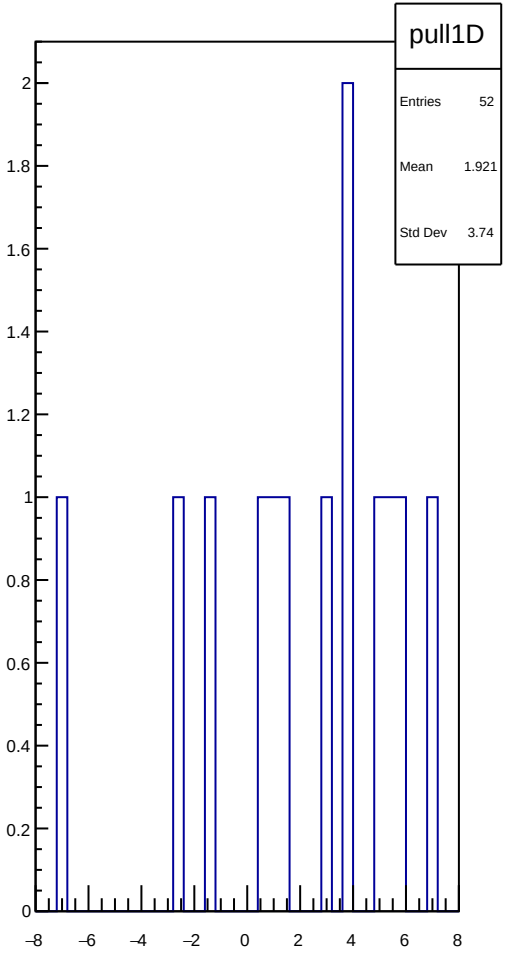

yield_bpm4aY_rms vs run
χ² / ndf 1.936e+04 / 51
p0 0.0155 ± 1.578e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

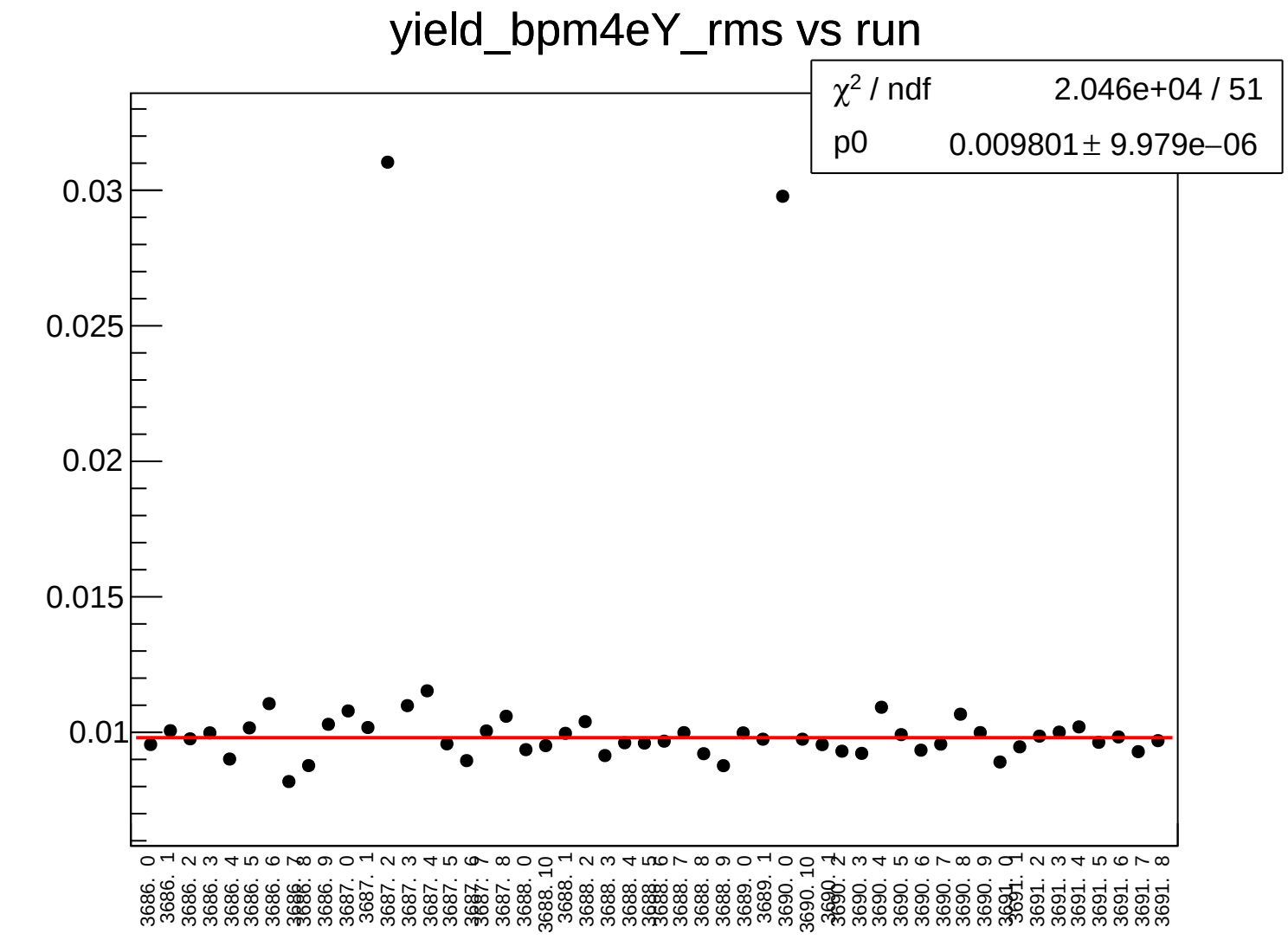

yield_bpm4eX_mean vs run
χ² / ndf 1.908e+04 / 51
p0 −0.4875 ± 2.484e−05
−0.475
−0.48
−0.485
−0.49
−0.495
−0.5
pull
Entries 52
Mean −57.12
Std Dev 88.52
50
40
30
20
10
0
−10
−20
−30

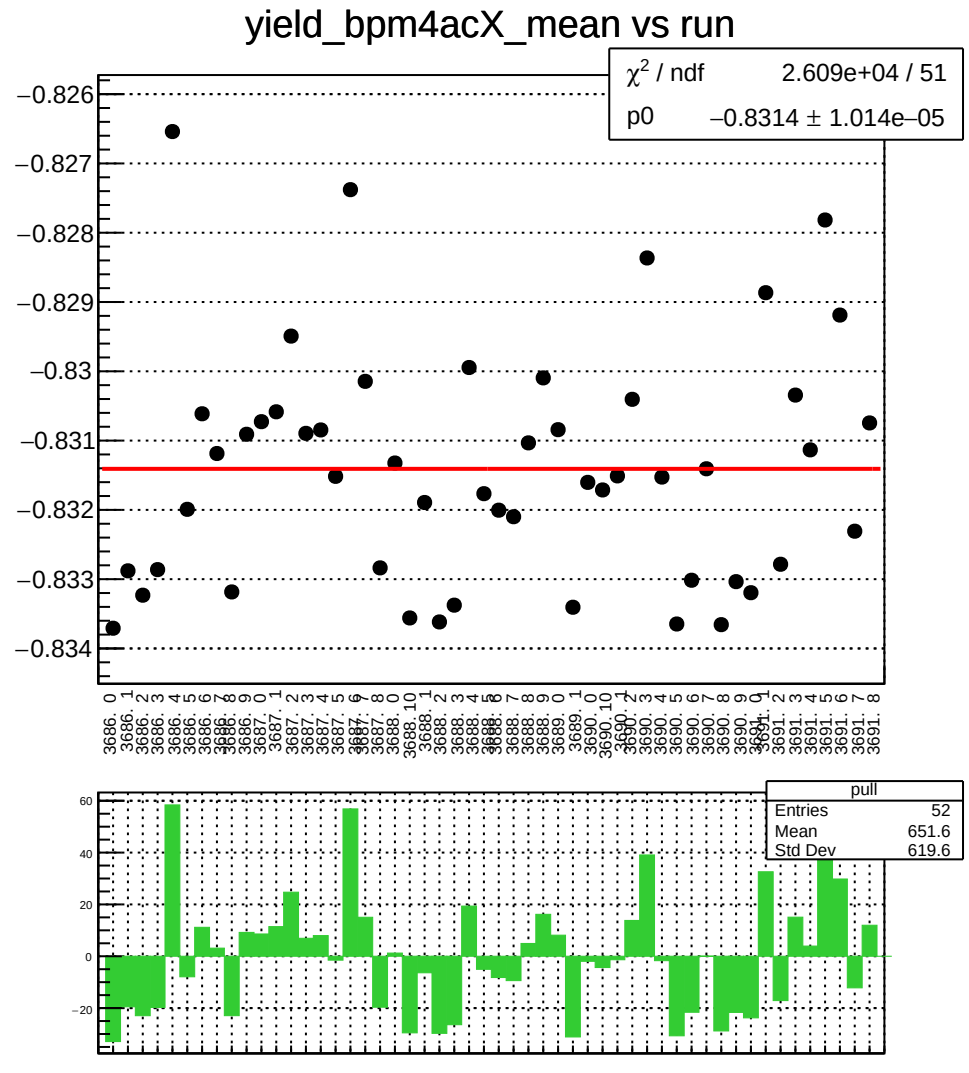

pull1D
Entries 52
Mean −0.0149
Std Dev 4.205
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

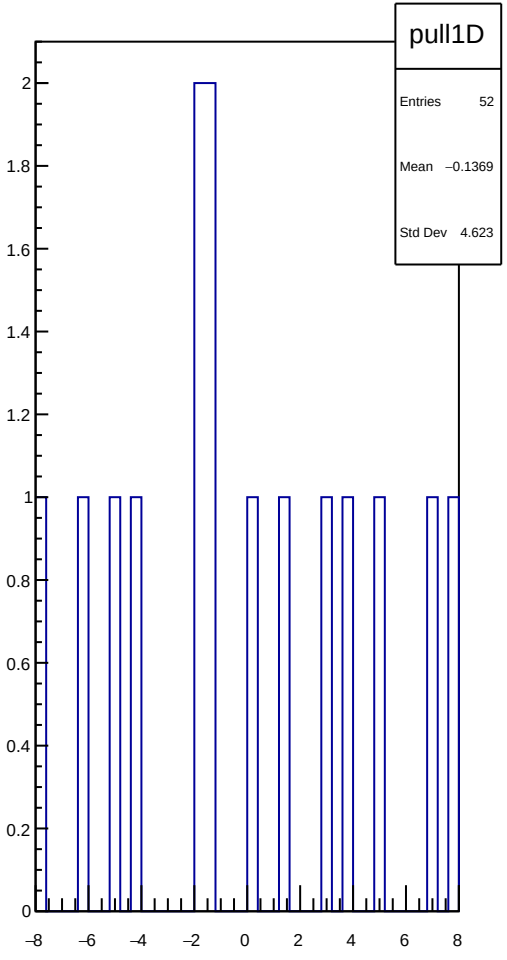

yield_bpm4eX_rms vs run
χ² / ndf 2.135e+04 / 51
p0 0.01724 ± 1.756e–05
0.035
0.03
0.025
0.02
0.015
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

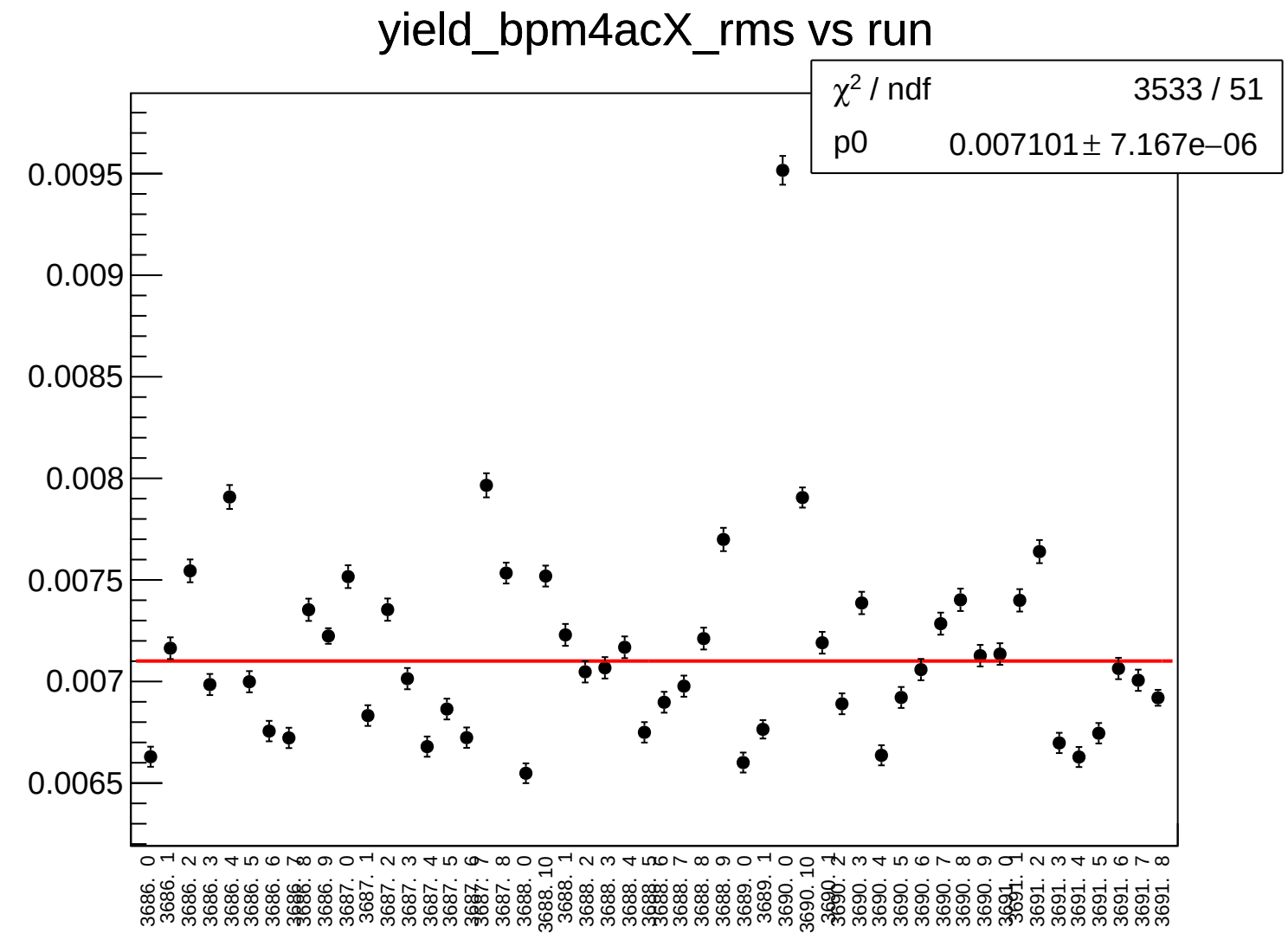

yield_bpm4eY_mean vs run
χ² / ndf 3.965e+04 / 51
p0 1.518 ± 1.411e−05
1.535
1.53
1.525
1.52
1.515
1.51
1.505
1.5
pull
Entries 52
Mean 55.03
Std Dev 65.61
60
40
20
0
−20
−40
−60

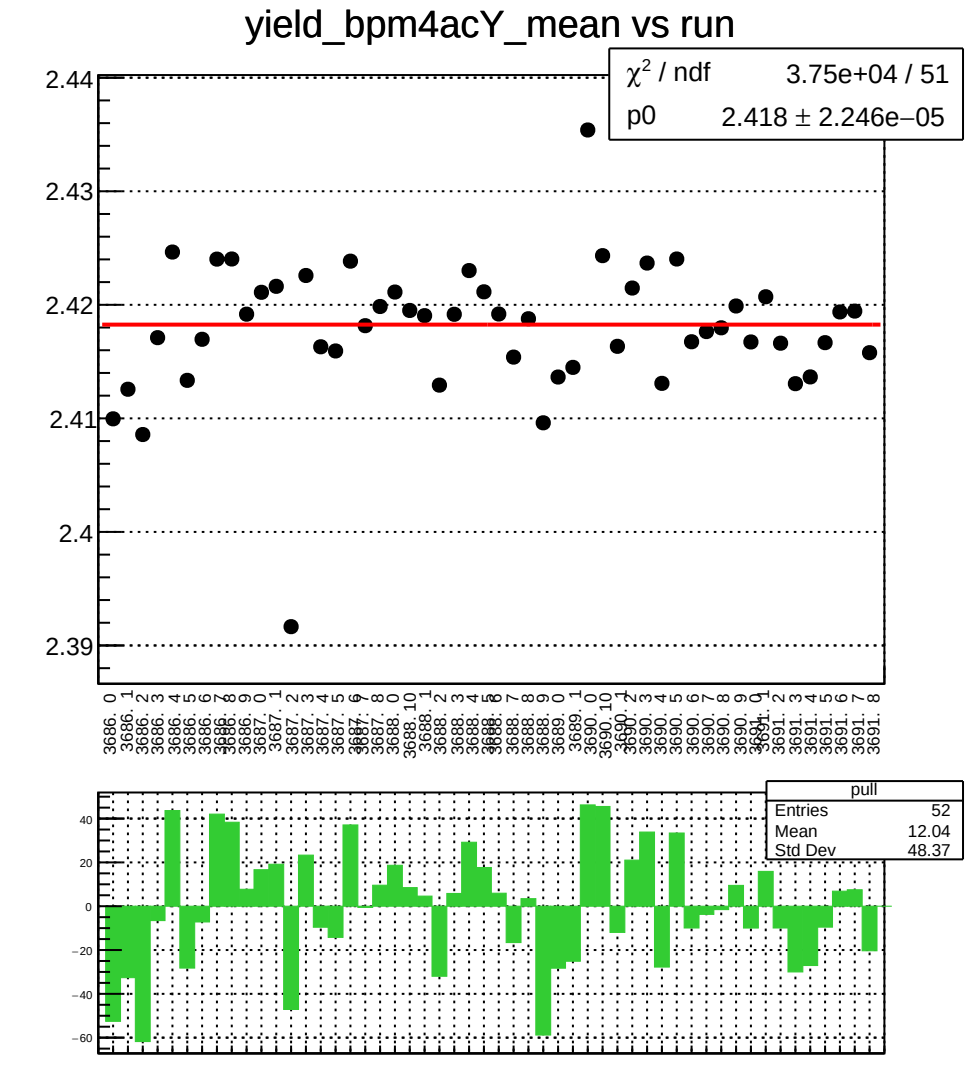

pull1D
Entries 52
Mean 1.921
Std Dev 3.74
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

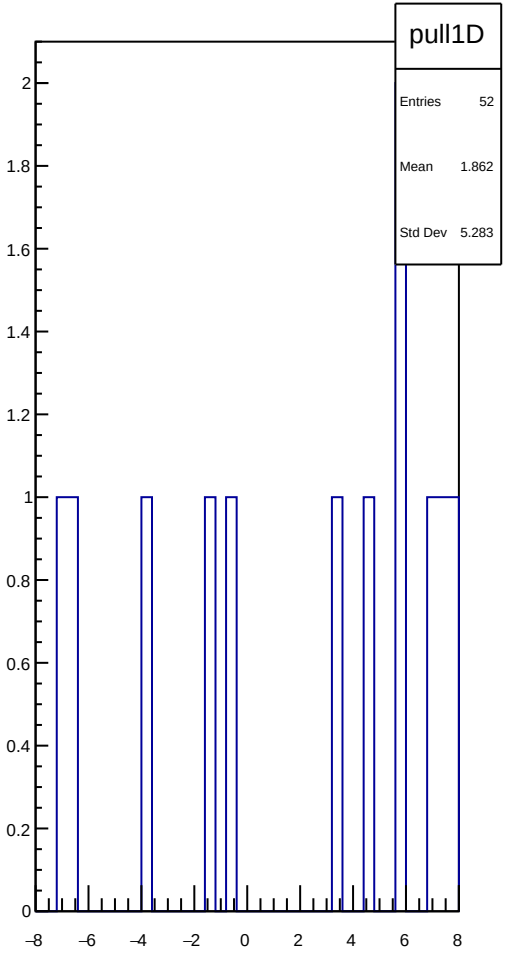

yield_bpm4eY_rms vs run
χ² / ndf 2.046e+04 / 51
p0 0.009801 ± 9.979e−06
0.03
0.025
0.02
0.015
0.01
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

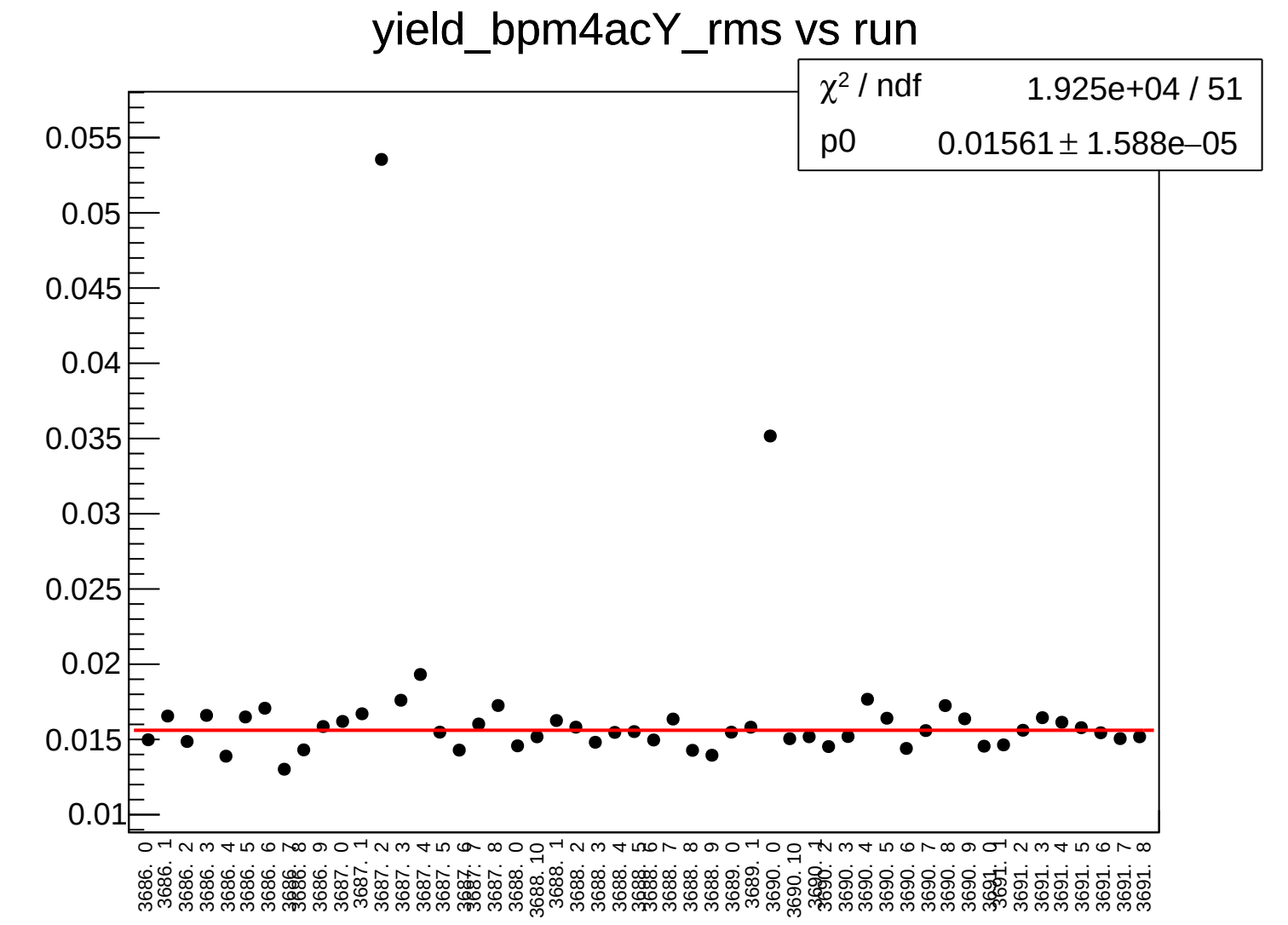

yield_bpm4acX_mean vs run
χ² / ndf 2.609e+04 / 51
p0 −0.8314 ± 1.014e−05
pull
Entries 52
Mean 651.6
Std Dev 619.6


pull1D
Entries 52
Mean −0.1369
Std Dev 4.623


yield_bpm4acX_rms vs run
χ² / ndf 3533 / 51
p0 0.007101 ± 7.167e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


yield_bpm4acY_mean vs run
χ² / ndf 3.75e+04 / 51
p0 2.418 ± 2.246e−05
2.44
2.43
2.42
2.41
2.4
2.39
pull
Entries 52
Mean 12.04
Std Dev 48.37
40
20
0
−20
−40
−60


pull1D
Entries 52
Mean 1.862
Std Dev 5.283
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_bpm4acY_rms vs run
χ² / ndf 1.925e+04 / 51
p0 0.01561 ± 1.588e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
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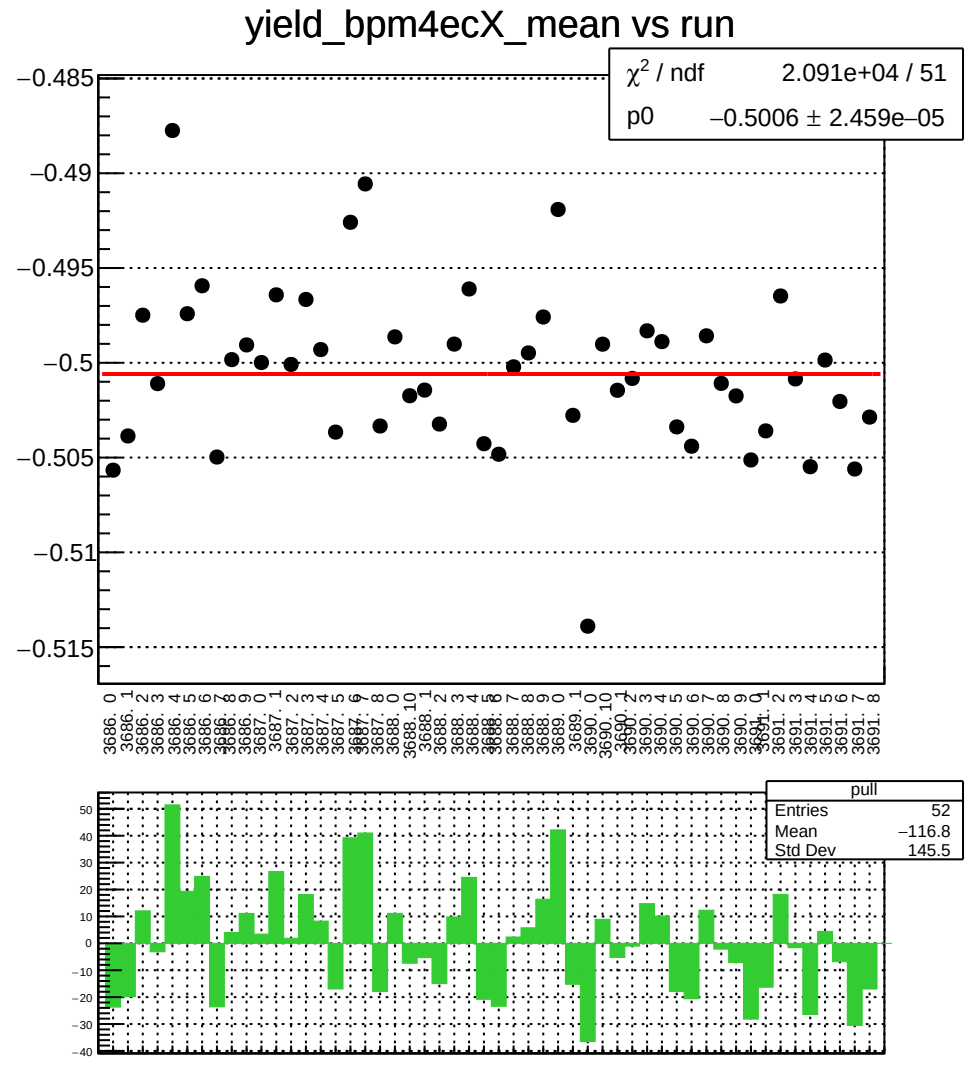
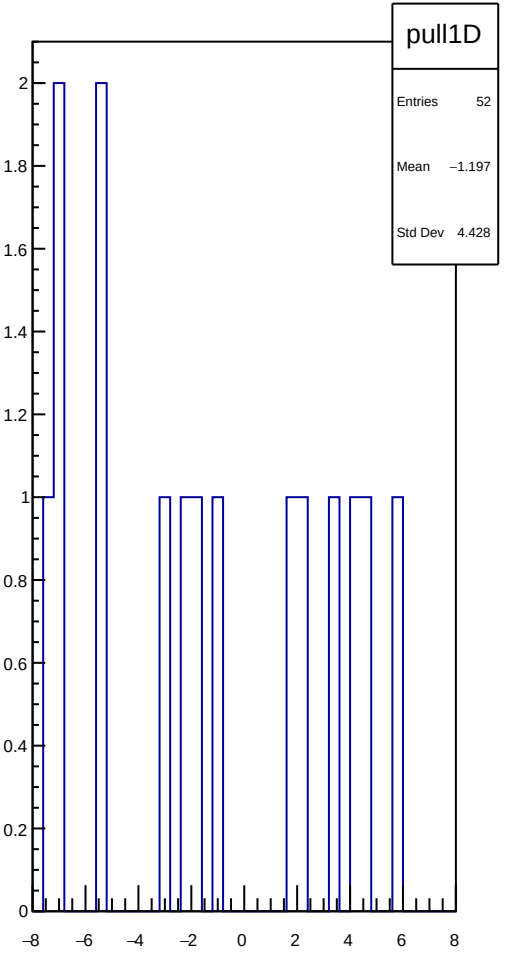
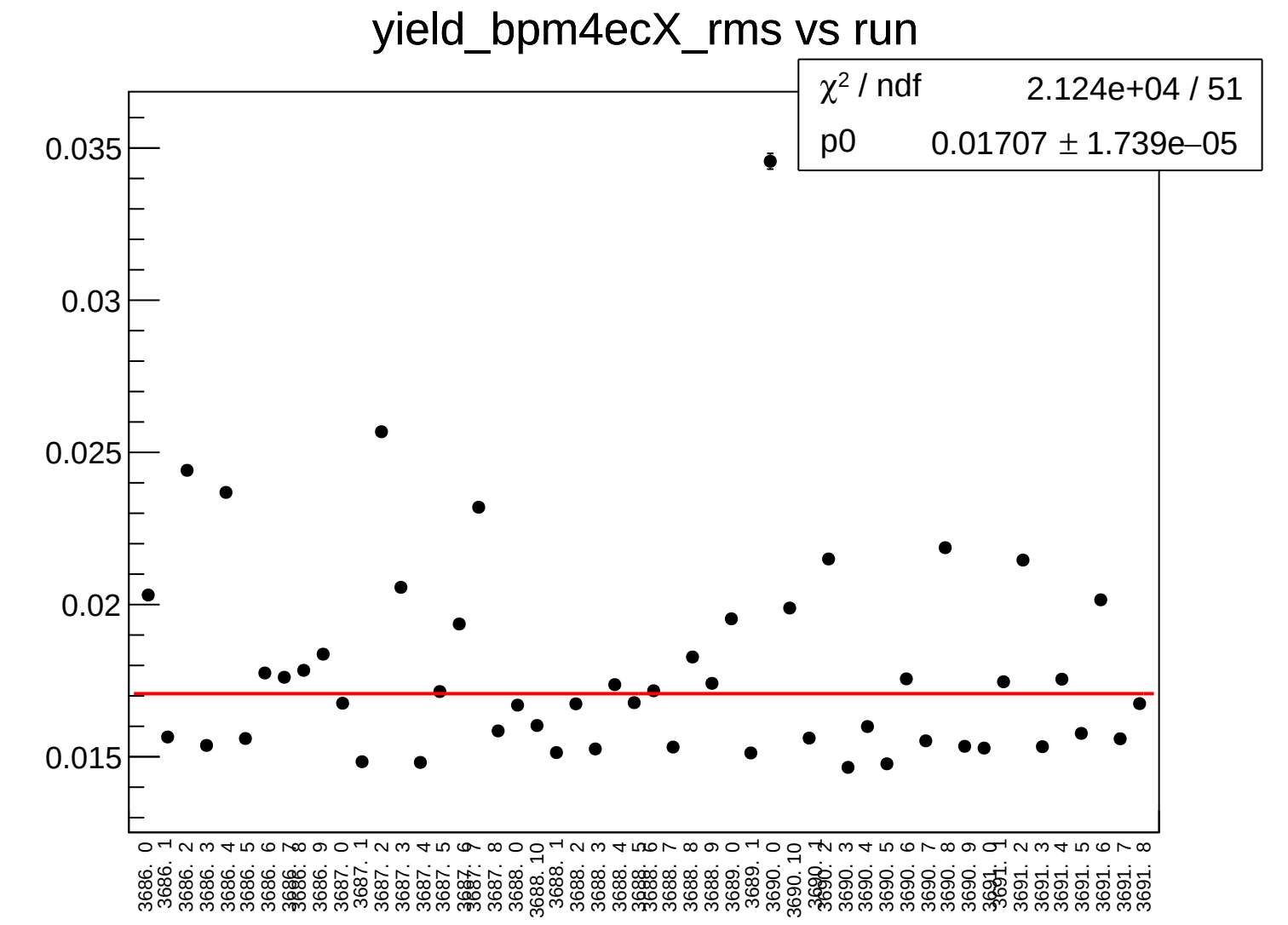
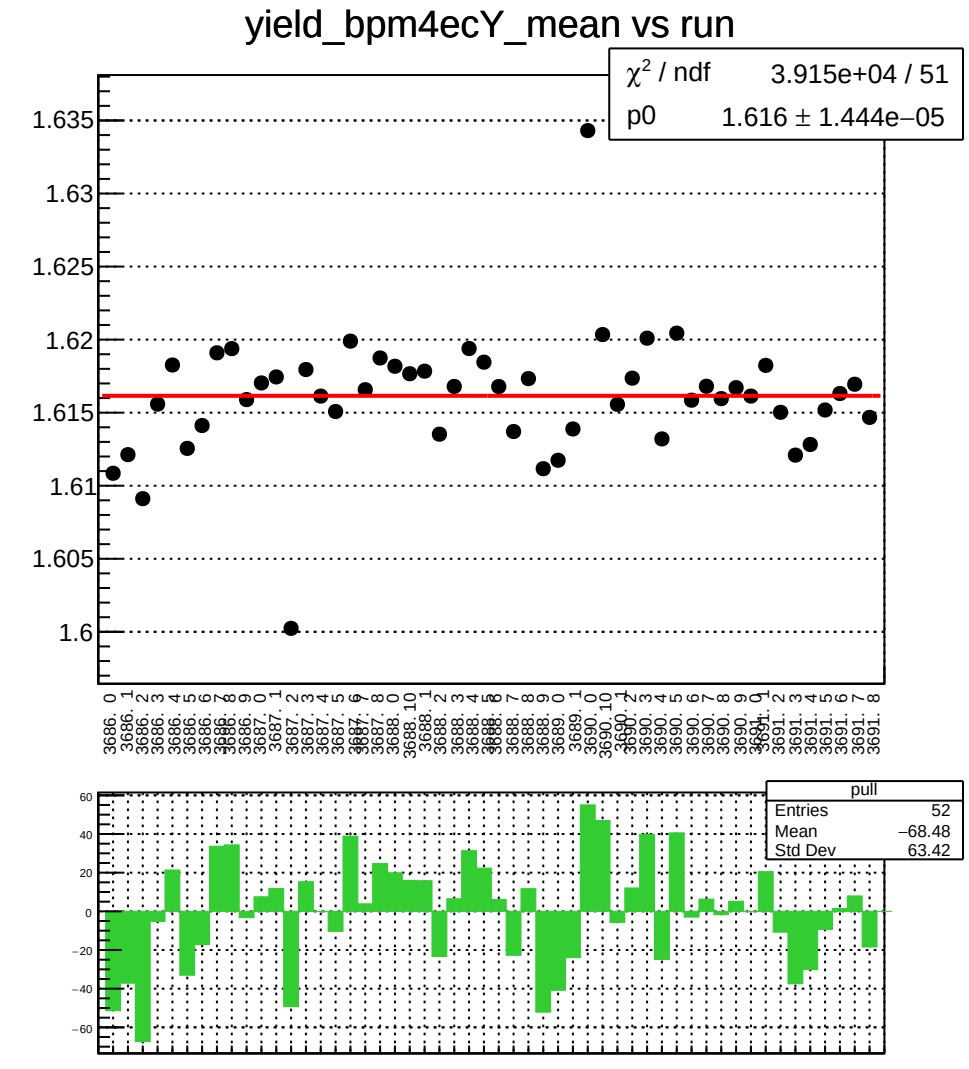
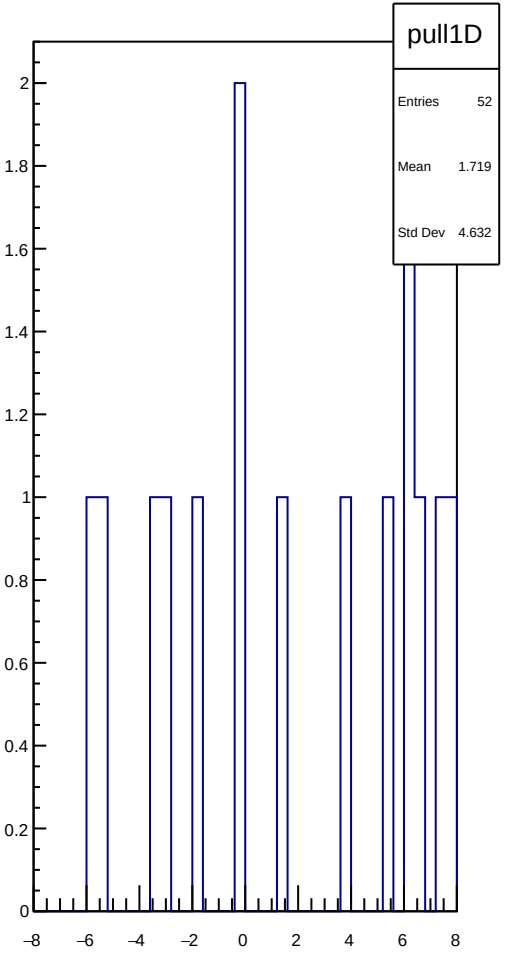
3691. 7
3691. 8

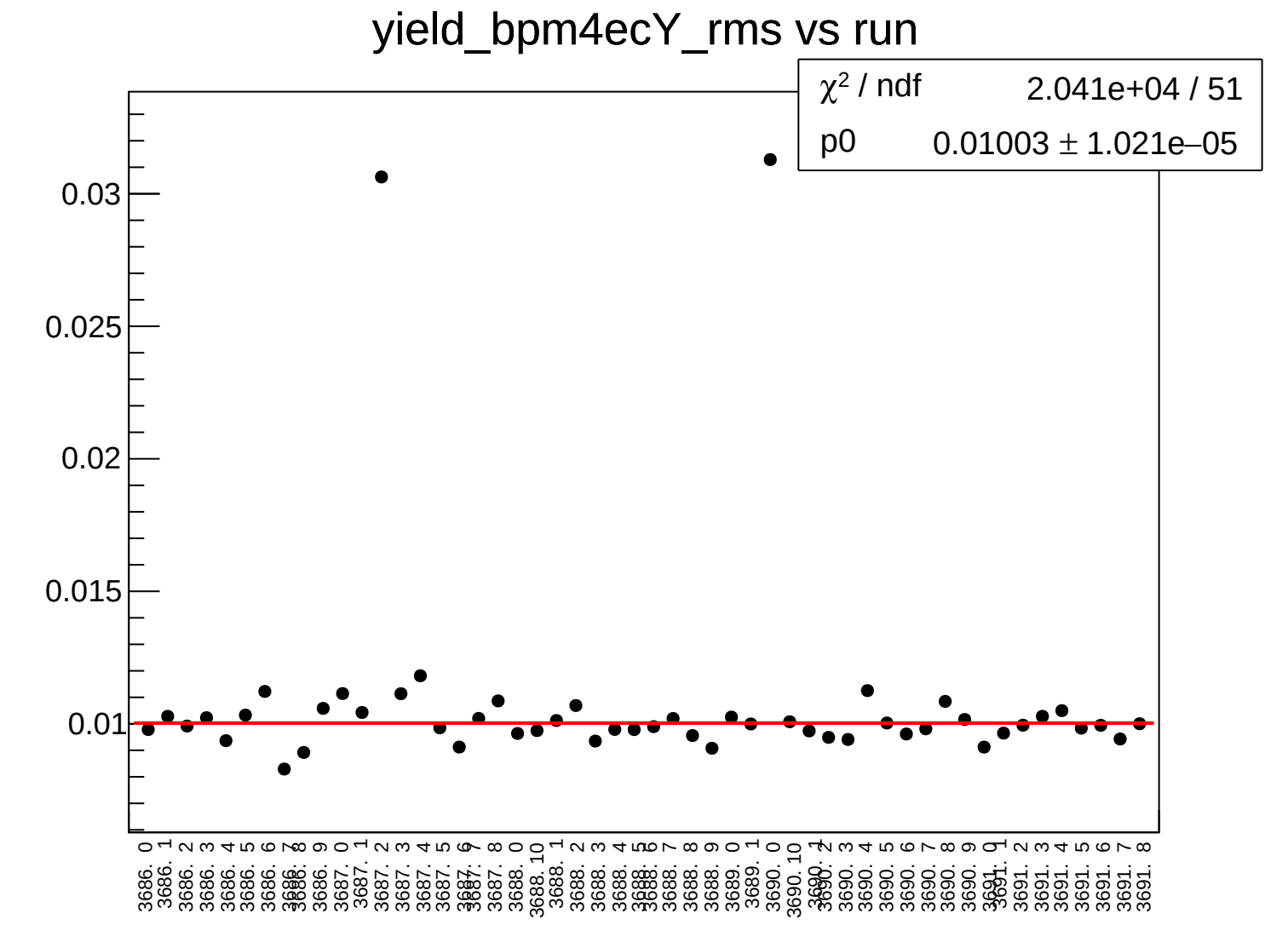

yield_bpm4ecX_mean vs run
χ² / ndf 2.091e+04 / 51
p0 −0.5006 ± 2.459e−05
−0.485
−0.49
−0.495
−0.5
−0.505
−0.51
−0.515
pull
Entries 52
Mean −116.8
Std Dev 145.5
50
40
30
20
10
0
−10
−20
−30
−40

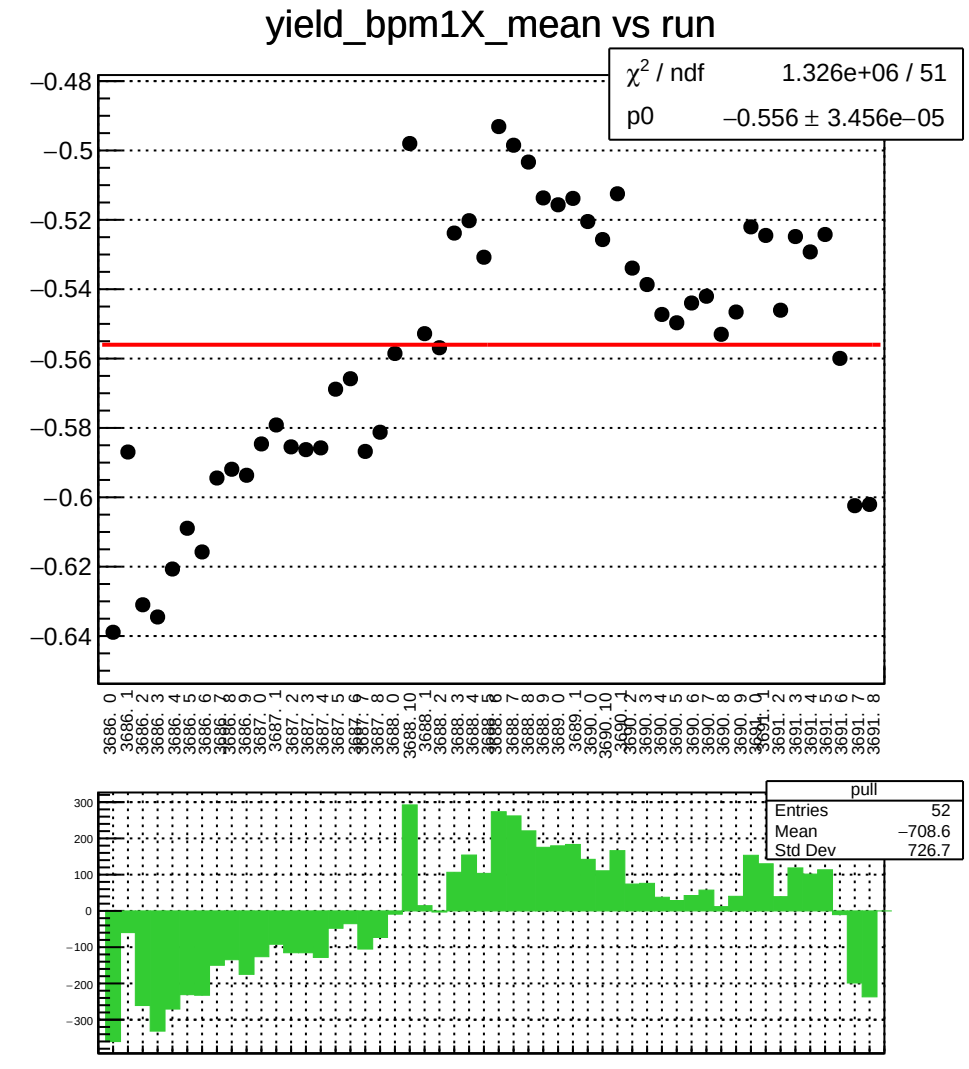

pull1D
Entries 52
Mean −1.197
Std Dev 4.428
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

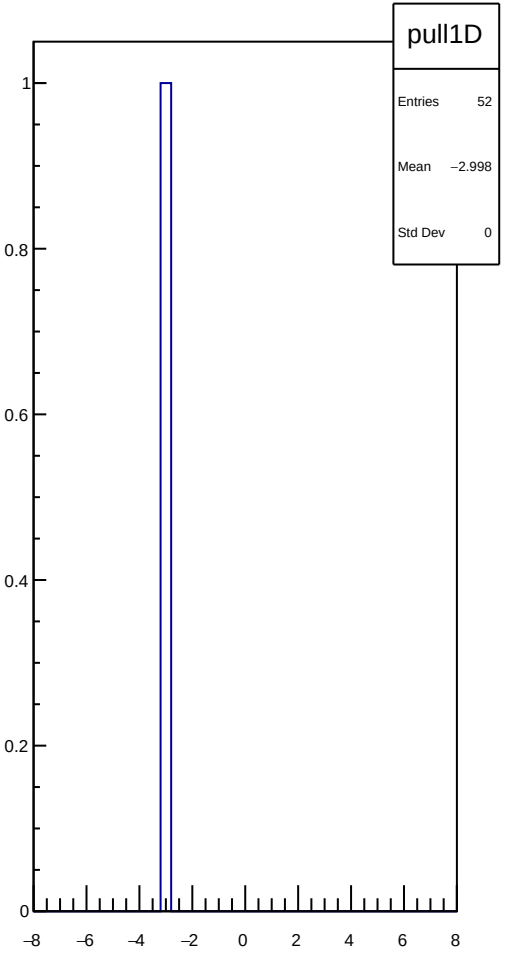

yield_bpm4ecX_rms vs run
χ² / ndf 2.124e+04 / 51
p0 0.01707 ± 1.739e–05
0.035
0.03
0.025
0.02
0.015
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

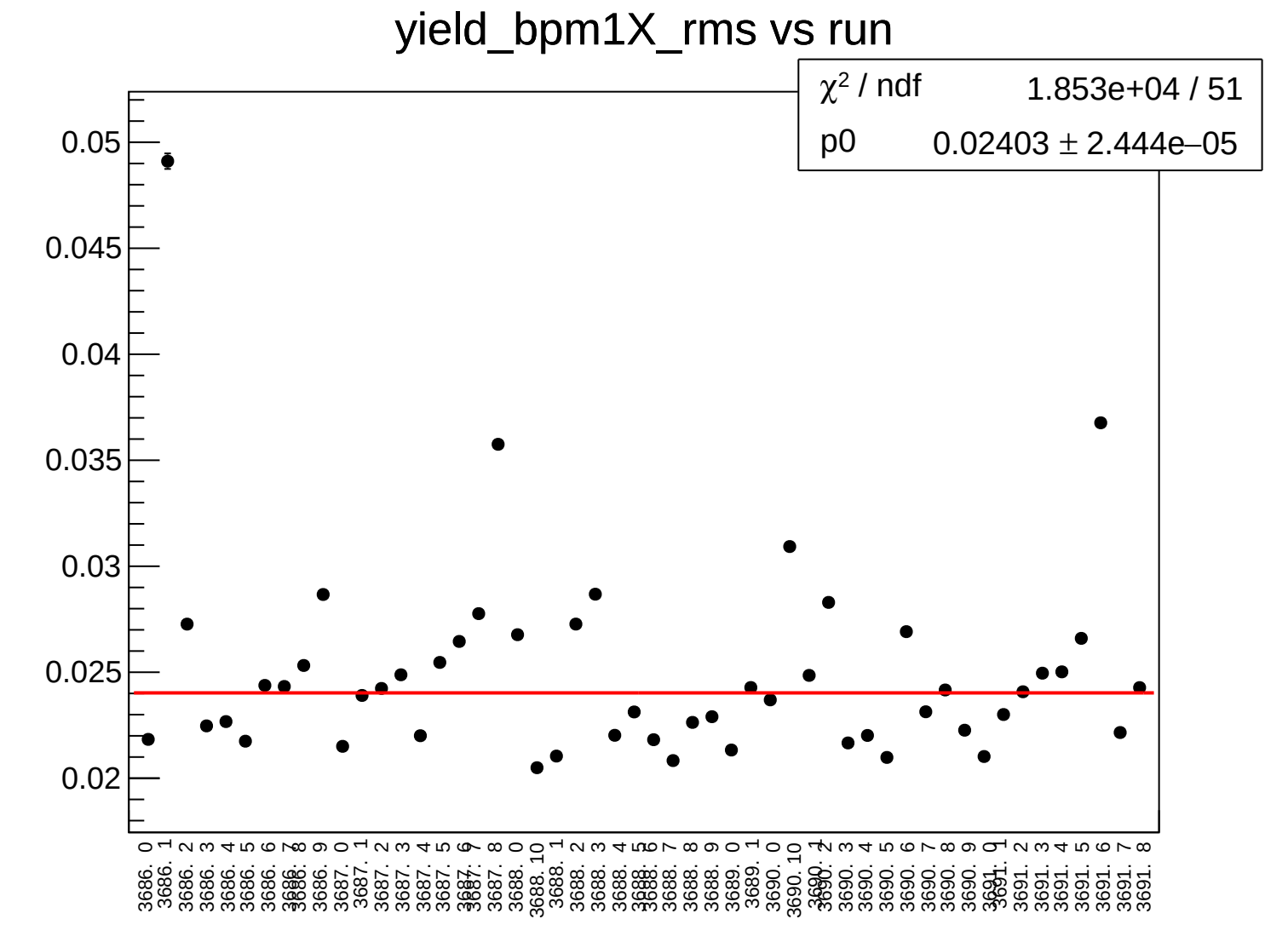

yield_bpm4ecY_mean vs run
χ² / ndf 3.915e+04 / 51
p0 1.616 ± 1.444e−05
1.635
1.63
1.625
1.62
1.615
1.61
1.605
1.6
pull
Entries 52
Mean −68.48
Std Dev 63.42
60
40
20
0
−20
−40
−60

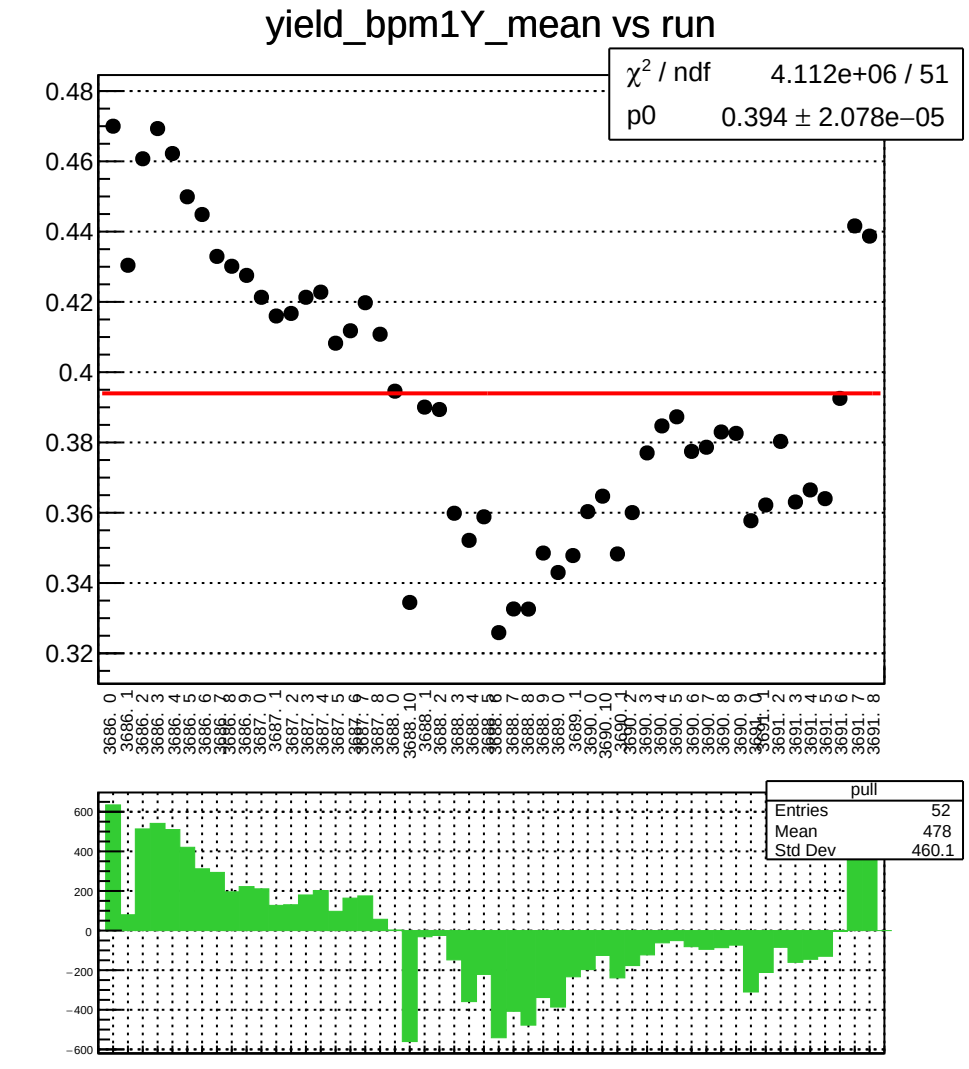

pull1D
Entries 52
Mean 1.719
Std Dev 4.632
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

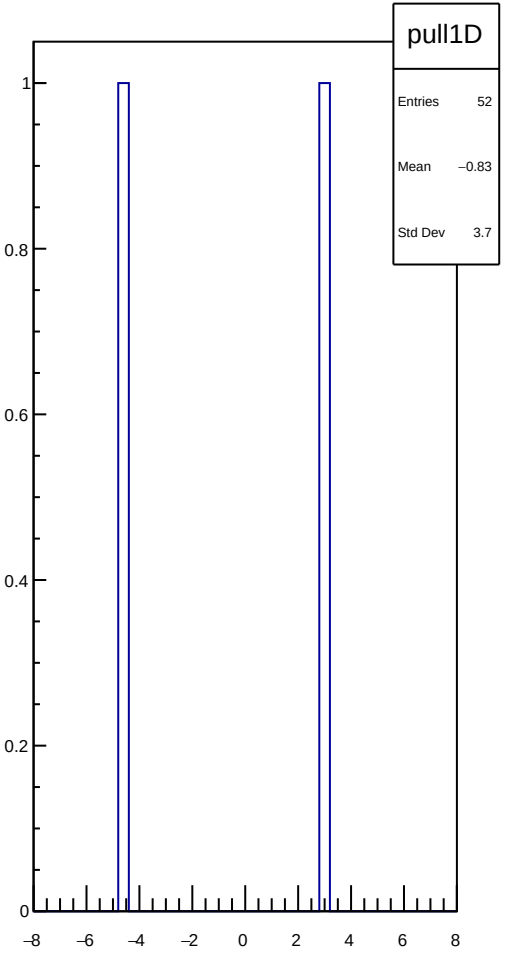

yield_bpm4ecY_rms vs run
χ² / ndf 2.041e+04 / 51
p0 0.01003 ± 1.021e–05
0.03
0.025
0.02
0.015
0.01
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

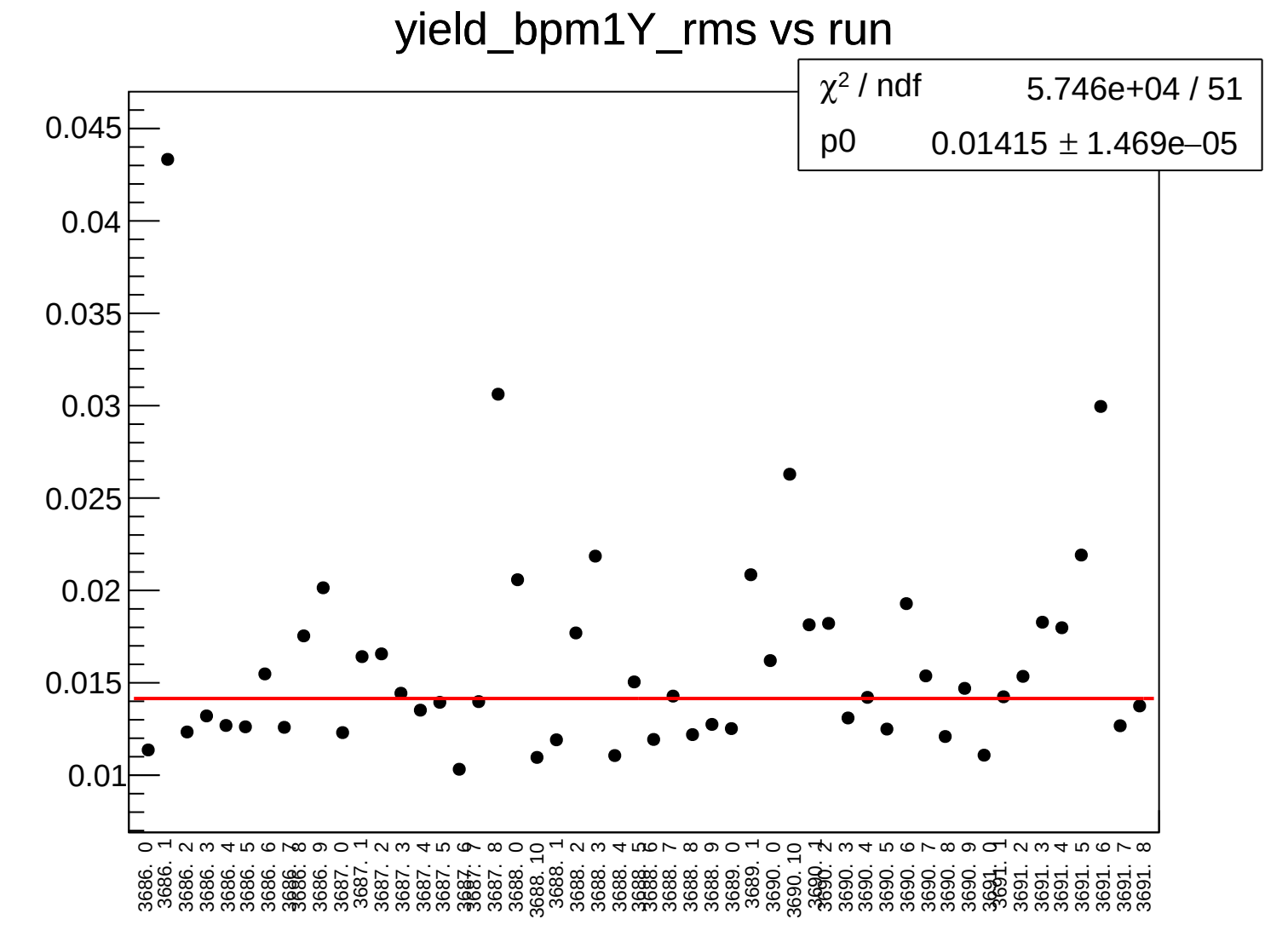

yield_bpm1X_mean vs run
χ² / ndf 1.326e+06 / 51
p0 −0.556 ± 3.456e−05
pull
Entries 52
Mean −708.6
Std Dev 726.7

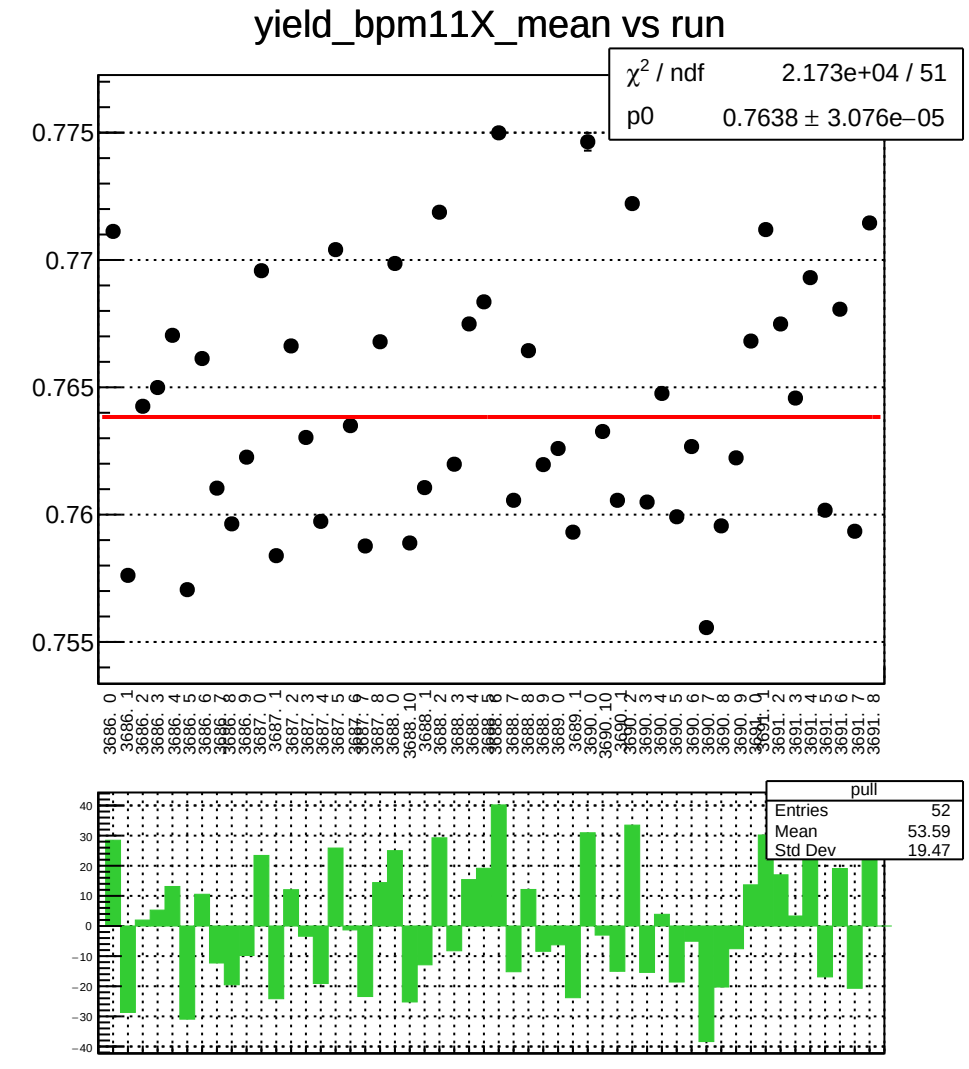

pull1D
Entries 52
Mean −2.998
Std Dev 0

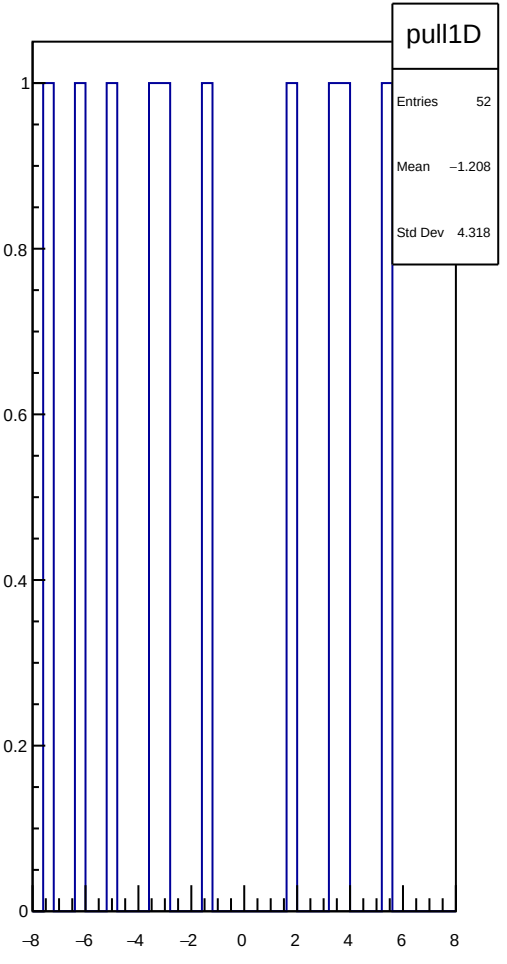

yield_bpm1X_rms vs run
χ² / ndf 1.853e+04 / 51
p0 0.02403 ± 2.444e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

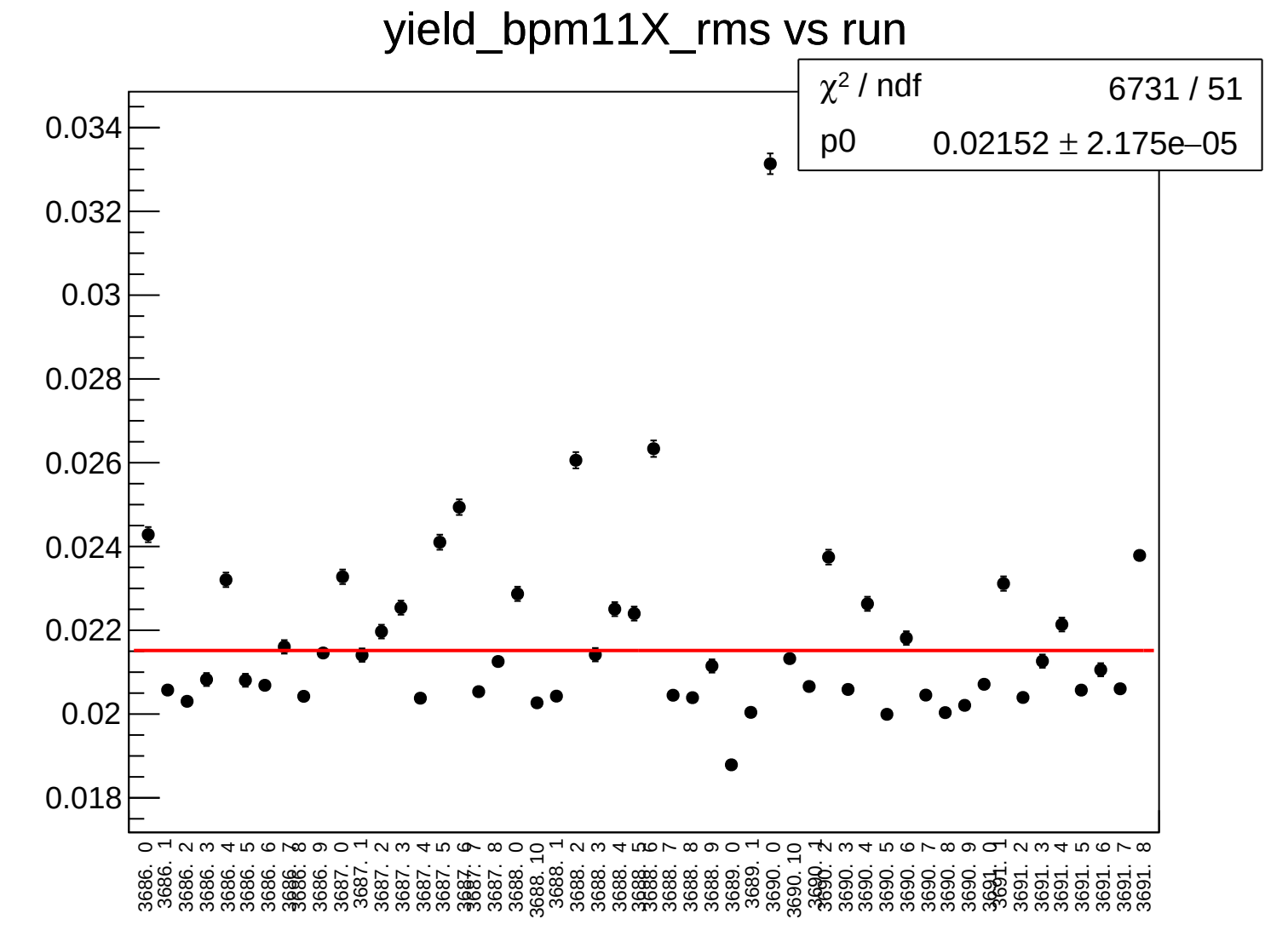

yield_bpm1Y_mean vs run
χ² / ndf 4.112e+06 / 51
p0 0.394 ± 2.078e−05
0.48
0.46
0.44
0.42
0.4
0.38
0.36
0.34
0.32
pull
Entries 52
Mean 478
Std Dev 460.1
600
400
200
0
−200
−400
−600

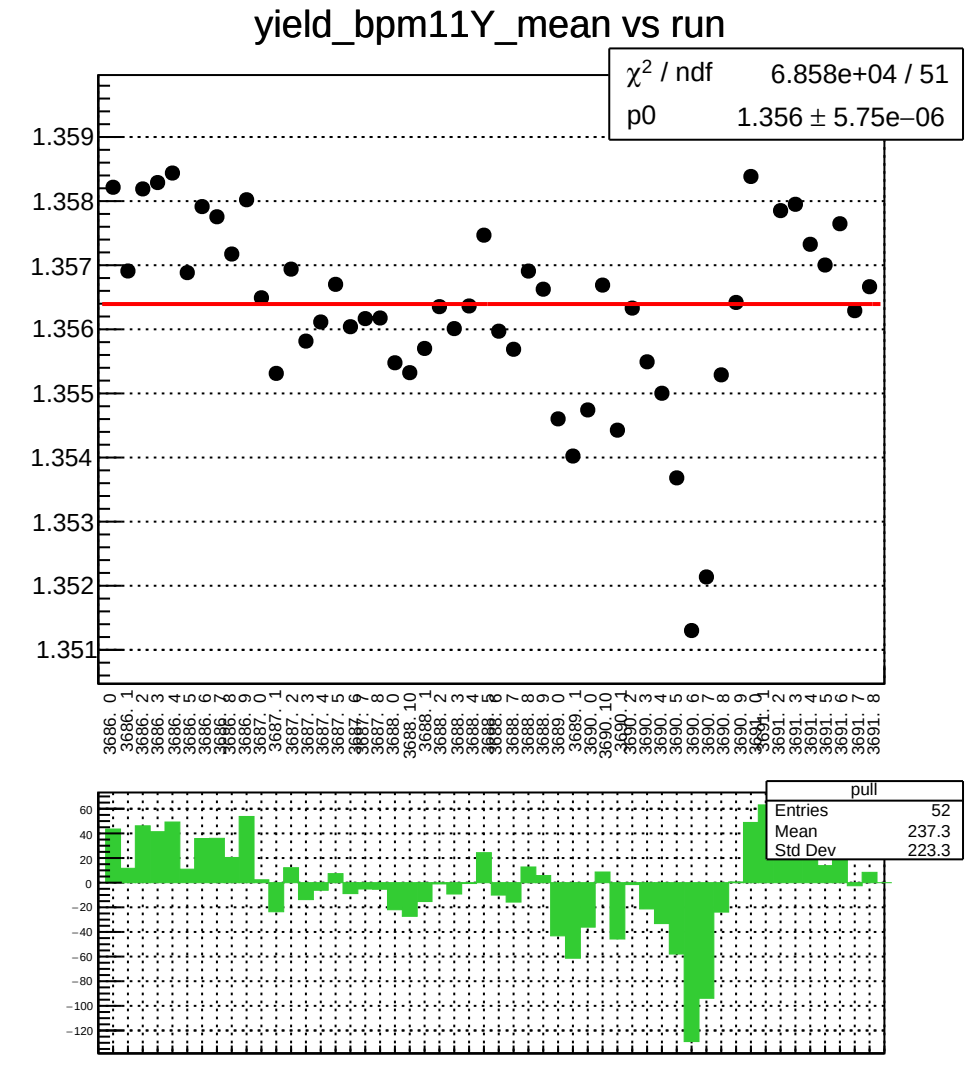

pull1D
Entries 52
Mean −0.83
Std Dev 3.7
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

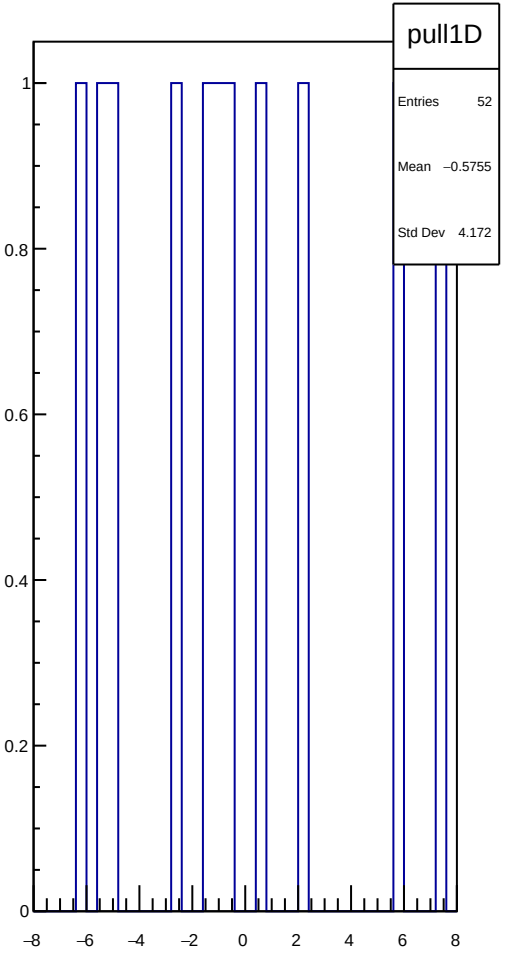

yield_bpm1Y_rms vs run
χ² / ndf 5.746e+04 / 51
p0 0.01415 ± 1.469e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

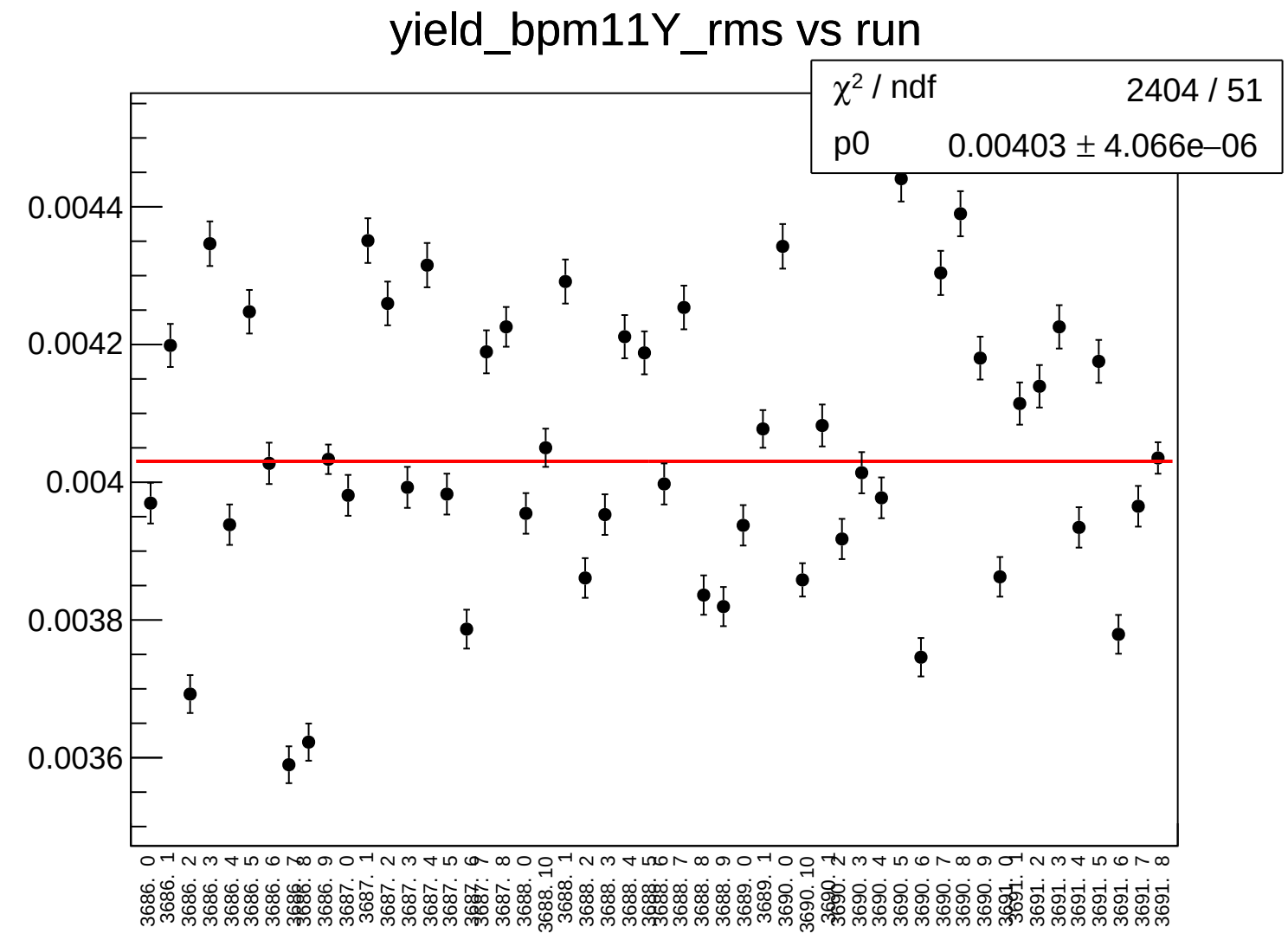

yield_bpm11X_mean vs run
χ² / ndf 2.173e+04 / 51
p0 0.7638 ± 3.076e−05
0.775
0.77
0.765
0.76
0.755
pull
Entries 52
Mean 53.59
Std Dev 19.47
40
30
20
10
0
−10
−20
−30
−40

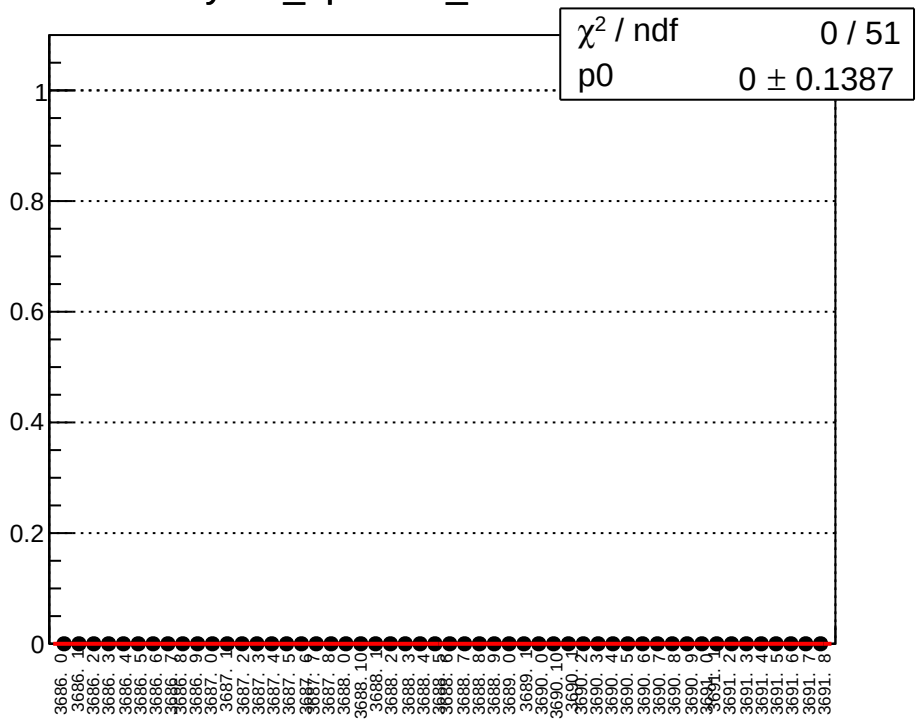

pull1D
Entries 52
Mean −1.208
Std Dev 4.318
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

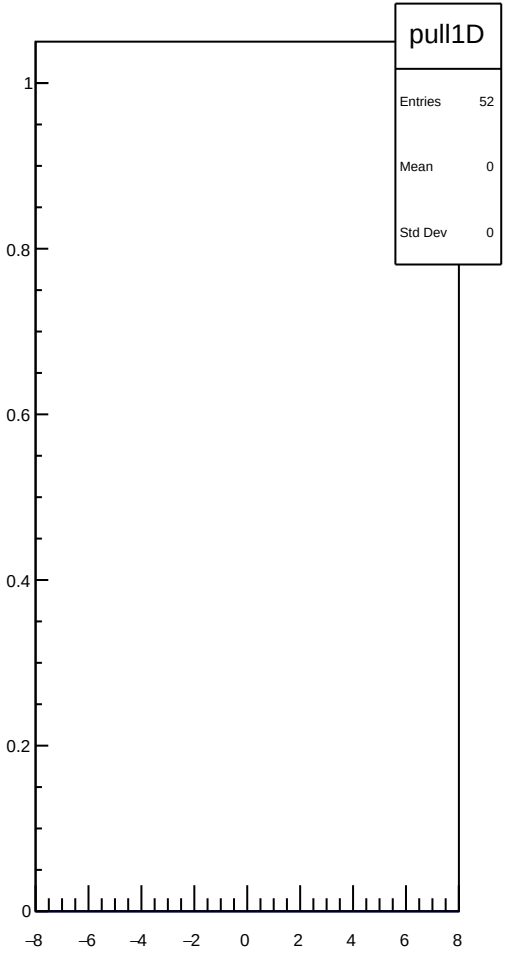

yield_bpm11X_rms vs run
χ² / ndf 6731 / 51
p0 0.02152 ± 2.175e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

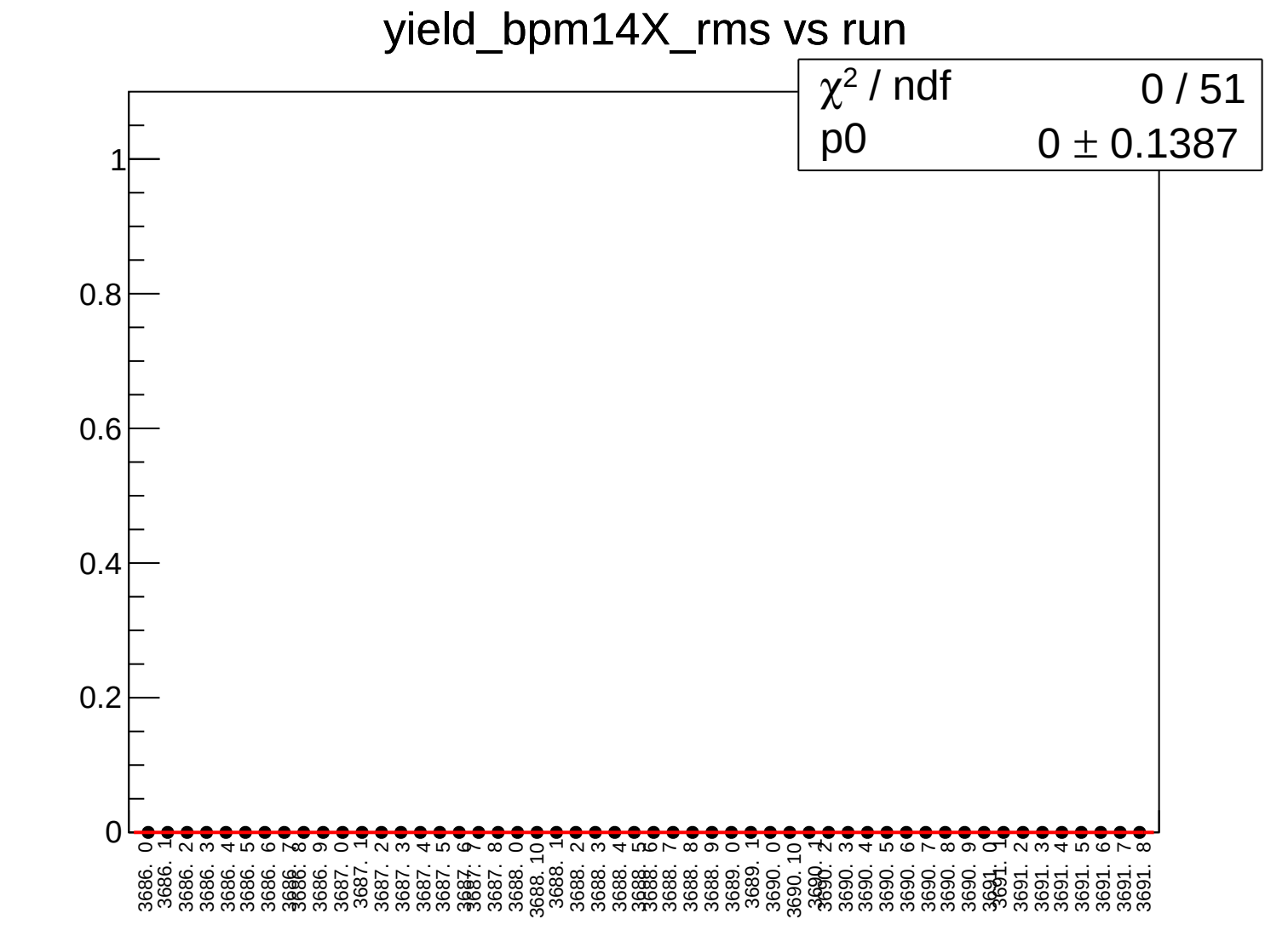

yield_bpm11Y_mean vs run
χ² / ndf 6.858e+04 / 51
p0 1.356 ± 5.75e−06
1.359
1.358
1.357
1.356
1.355
1.354
1.353
1.352
1.351
pull
Entries 52
Mean 237.3
Std Dev 223.3
60
40
20
0
−20
−40
−60
−80
−100
−120

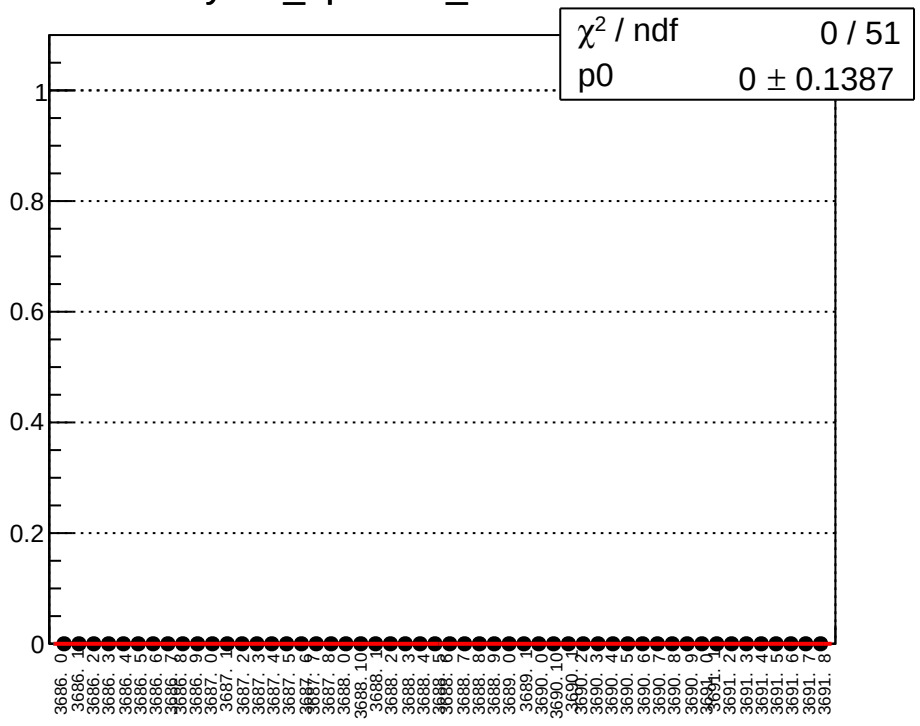

pull1D
Entries 52
Mean −0.5755
Std Dev 4.172
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

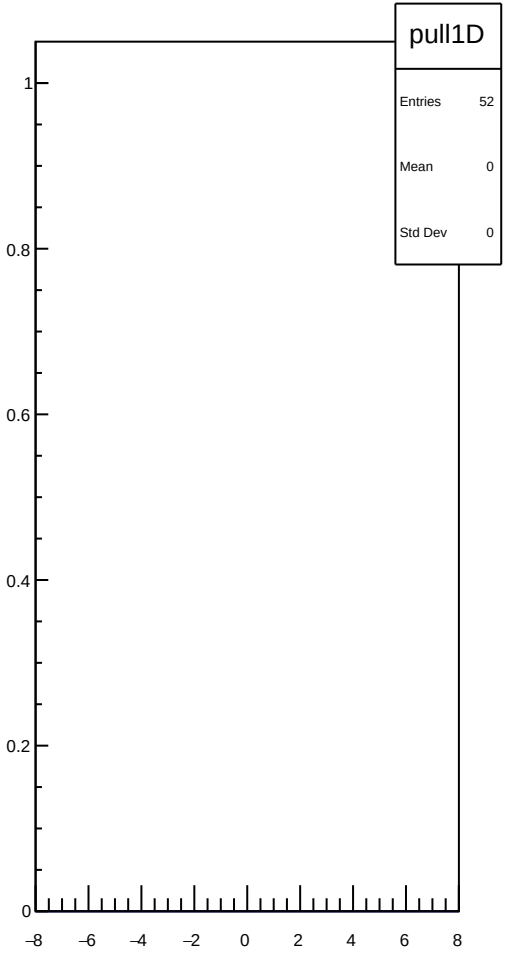

yield_bpm11Y_rms vs run
χ² / ndf 2404 / 51
p0 0.00403 ± 4.066e−06
0.0044
0.0042
0.004
0.0038
0.0036

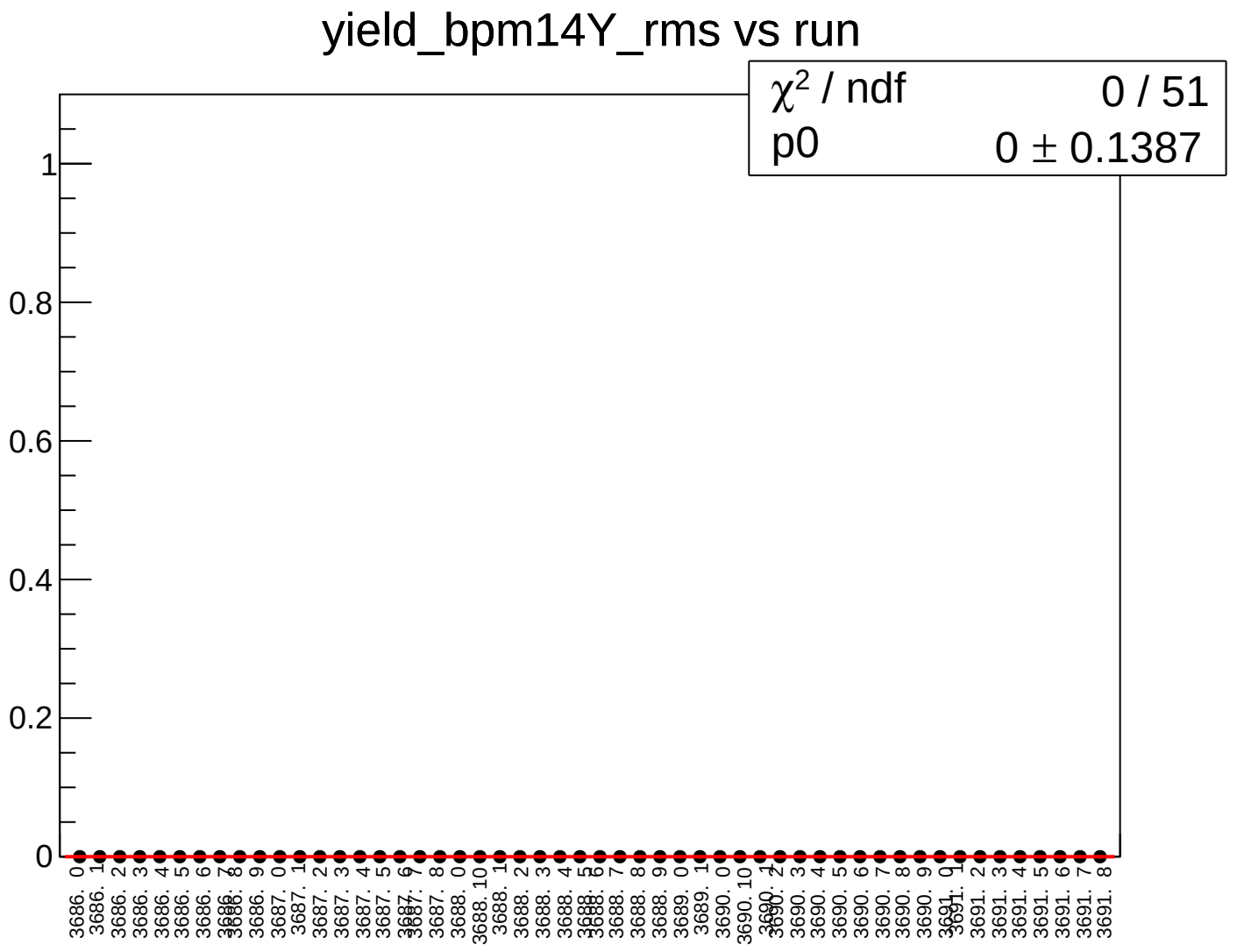

yield_bpm14X_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

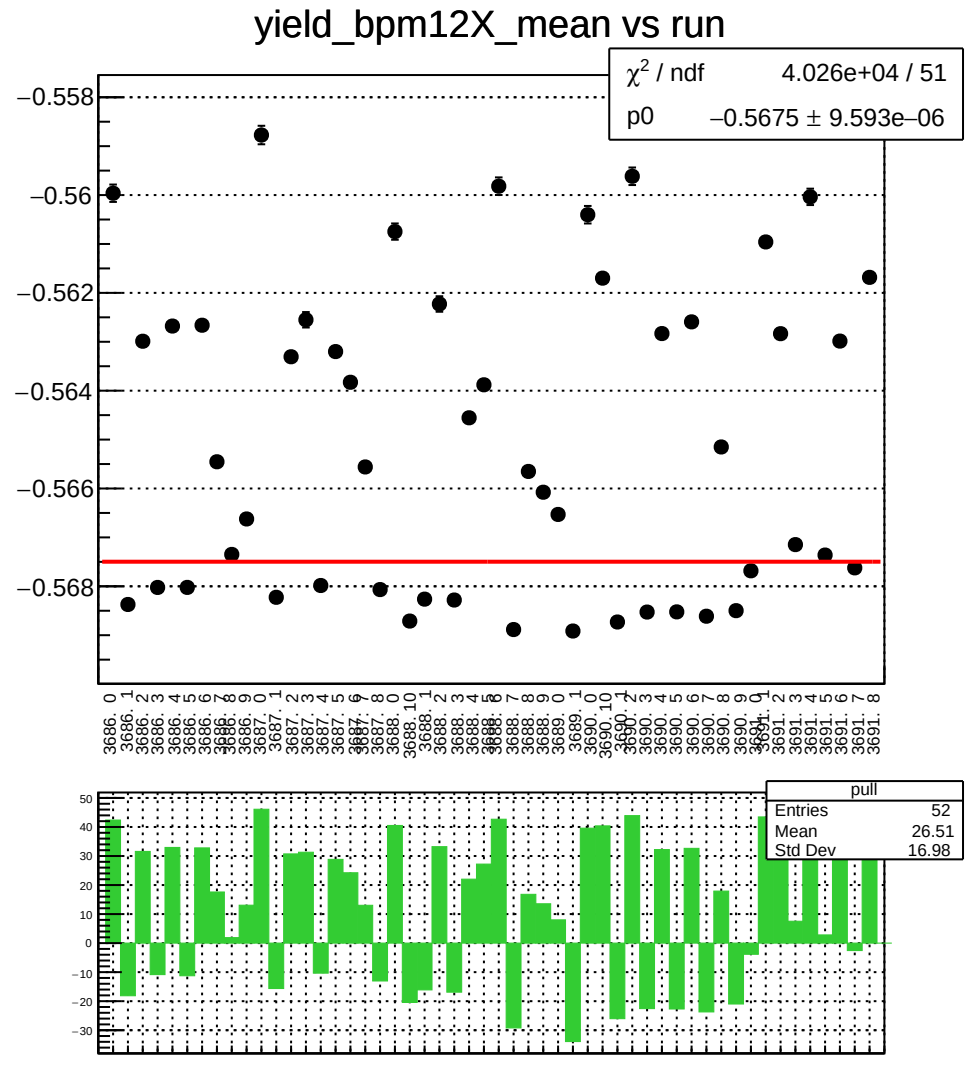

pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

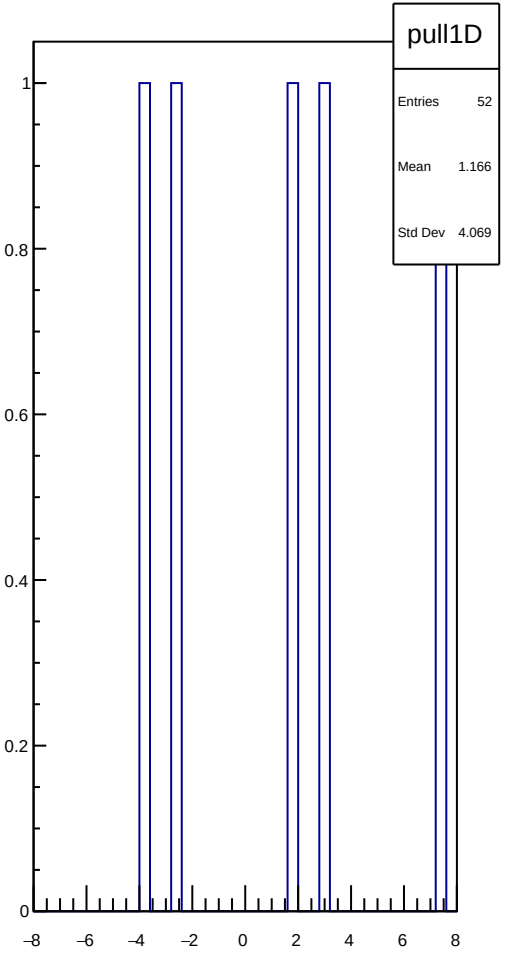

yield_bpm14X_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

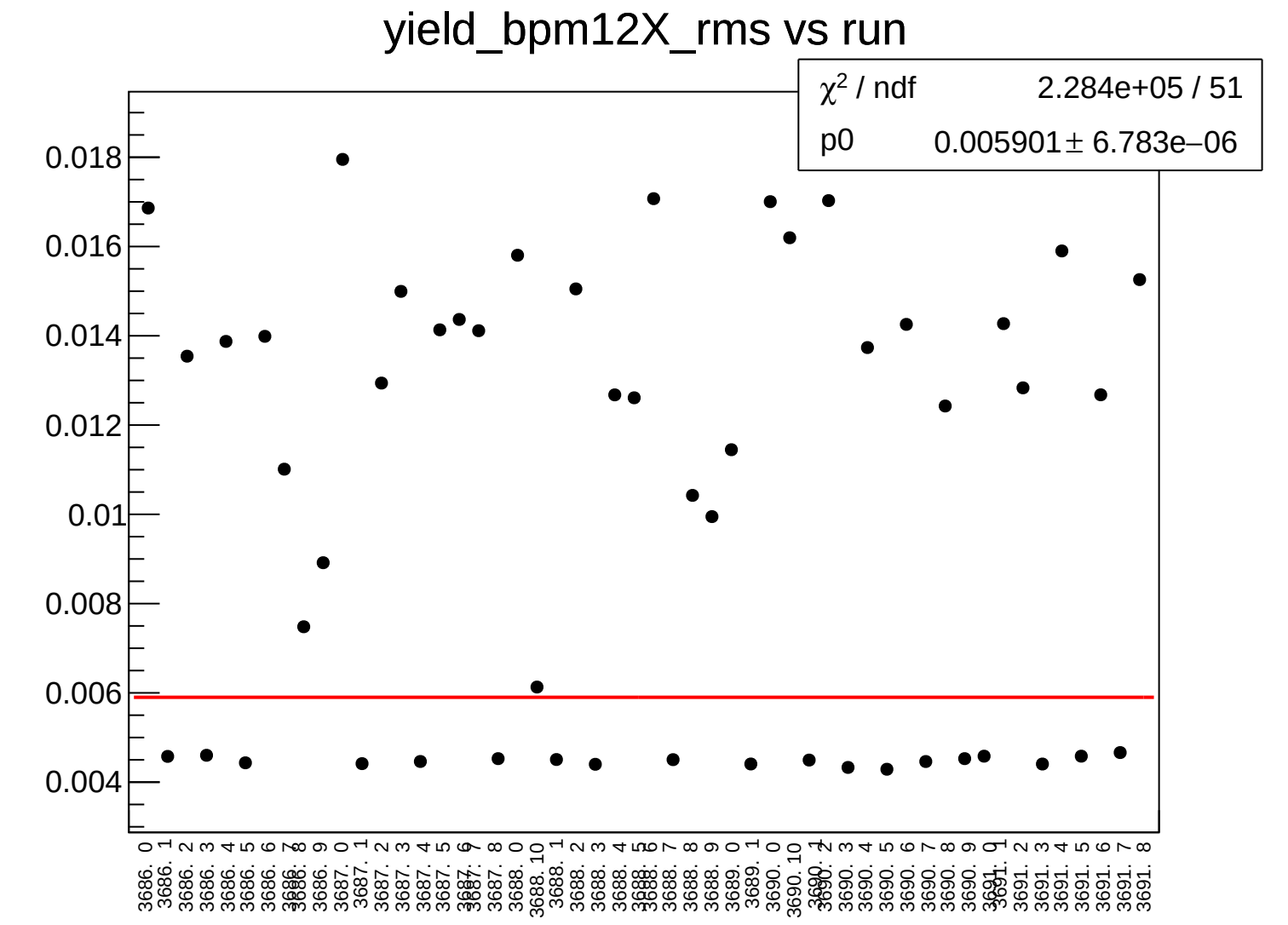

yield_bpm14Y_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

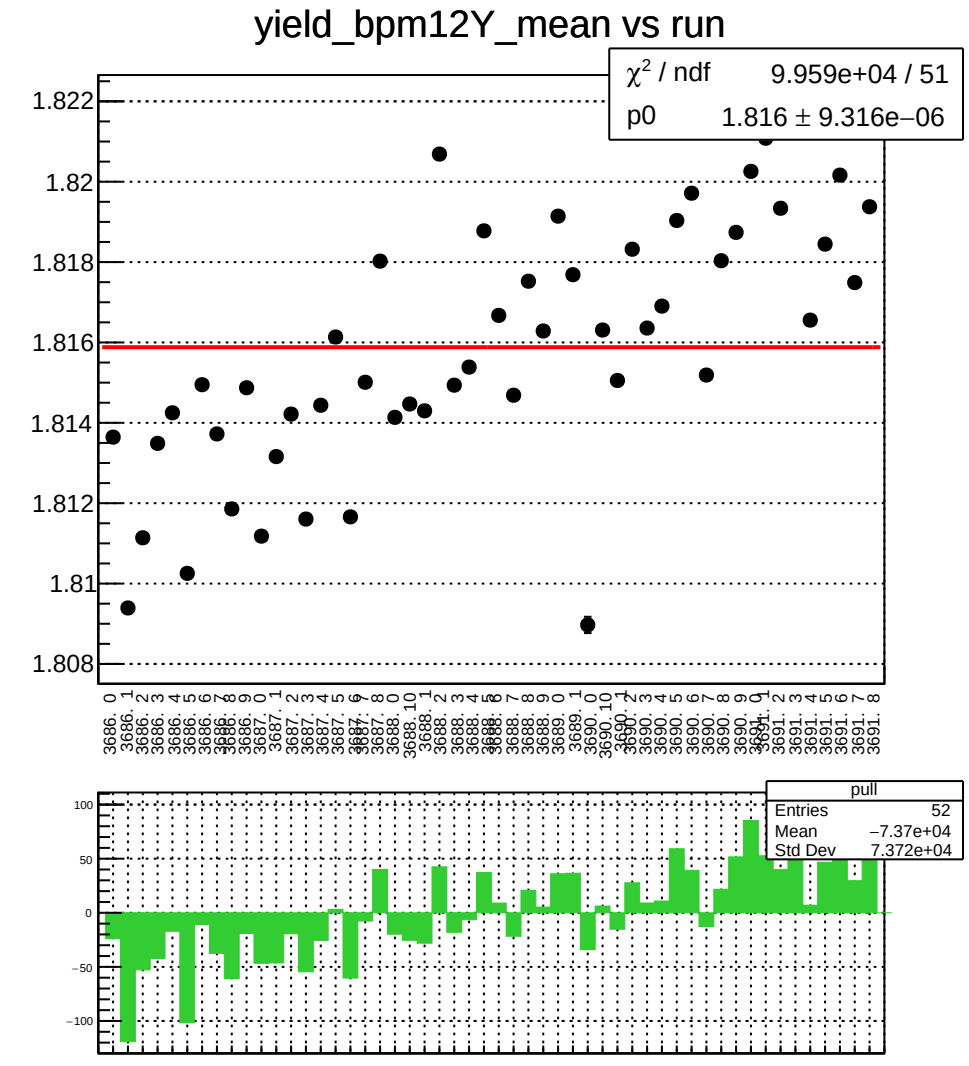

pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

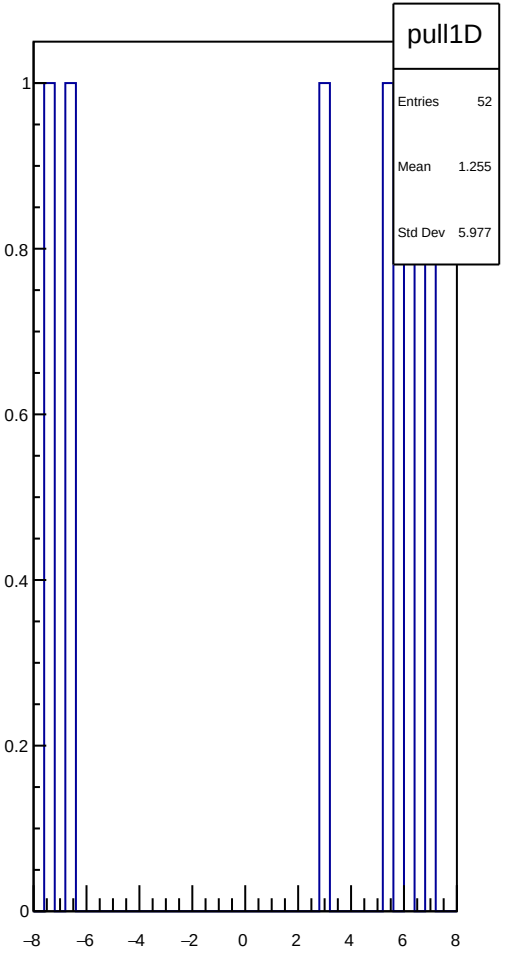

yield_bpm14Y_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

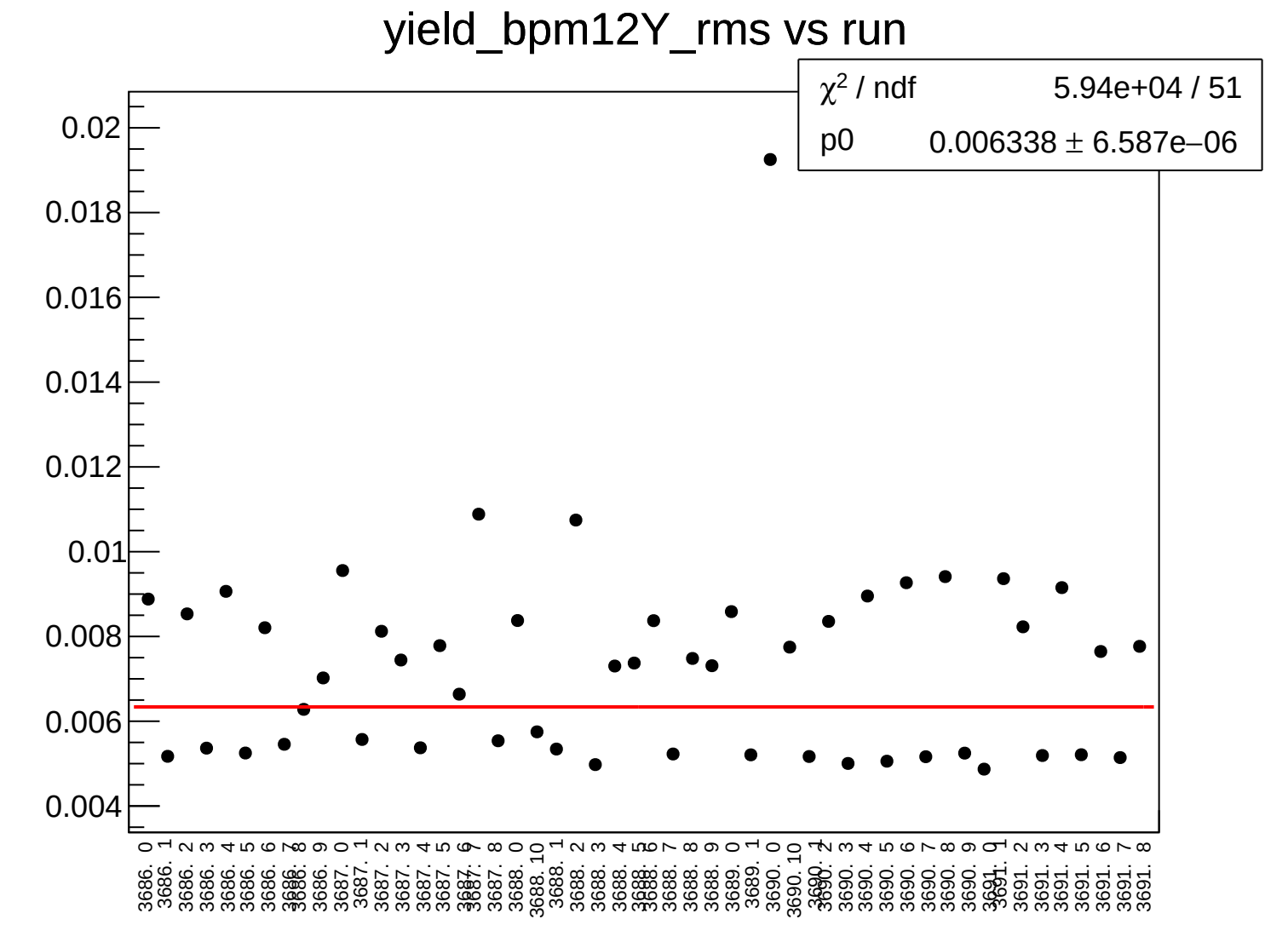

yield_bpm12X_mean vs run
χ² / ndf 4.026e+04 / 51
p0 −0.5675 ± 9.593e−06
−0.558
−0.56
−0.562
−0.564
−0.566
−0.568
pull
Entries 52
Mean 26.51
Std Dev 16.98

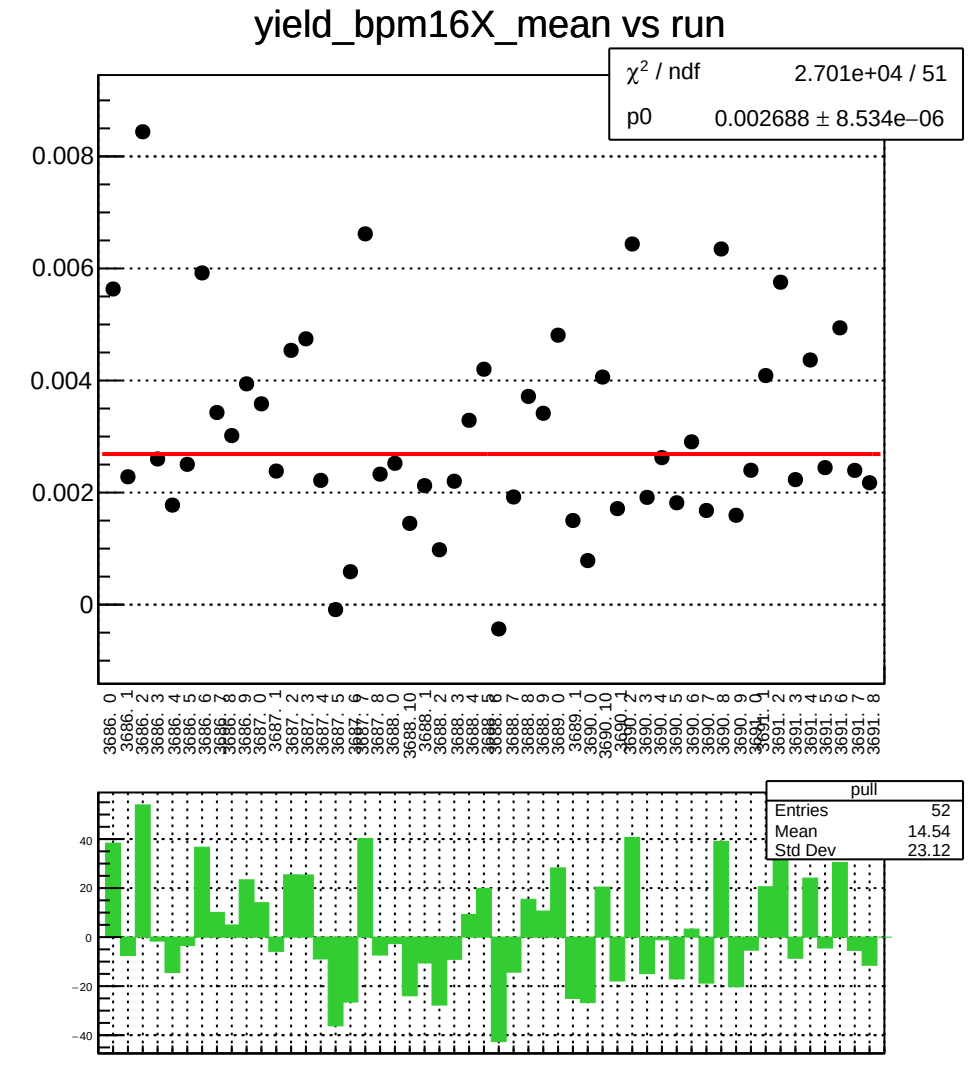

pull1D
Entries 52
Mean 1.166
Std Dev 4.069

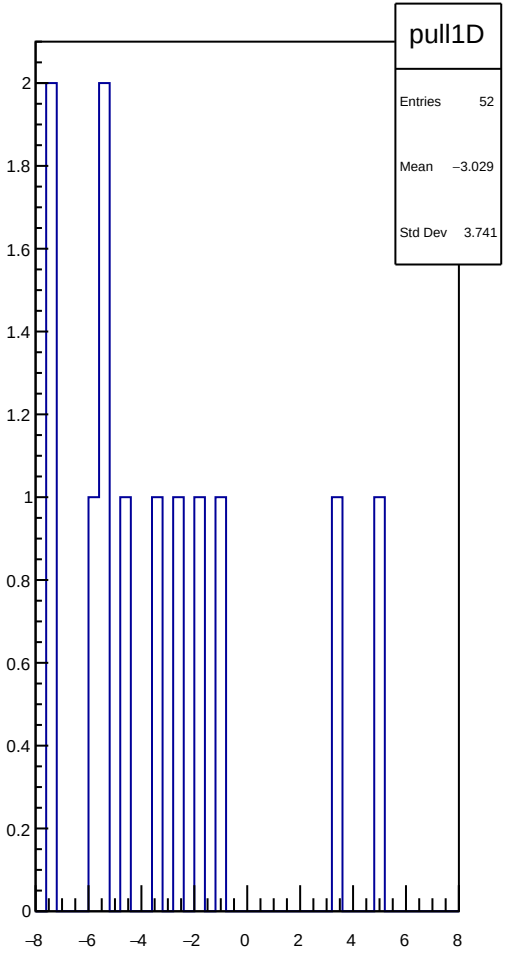

yield_bpm12X_rms vs run
χ² / ndf 2.284e+05 / 51
p0 0.005901 ± 6.783e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

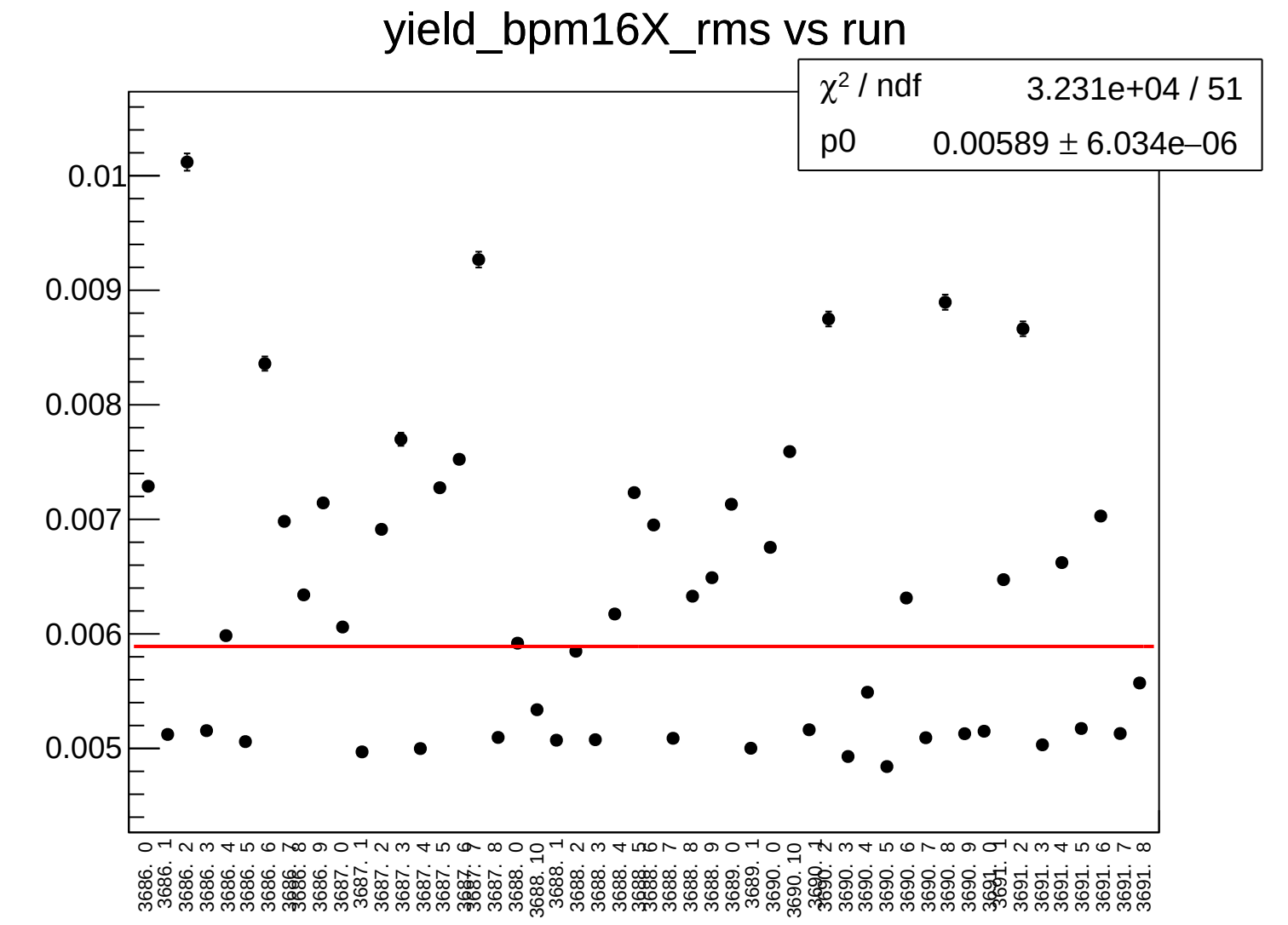

yield_bpm12Y_mean vs run
χ² / ndf 9.959e+04 / 51
p0 1.816 ± 9.316e−06
1.822
1.82
1.818
1.816
1.814
1.812
1.81
1.808
pull
Entries 52
Mean −7.37e+04
Std Dev 7.372e+04
100
50
0
−50
−100

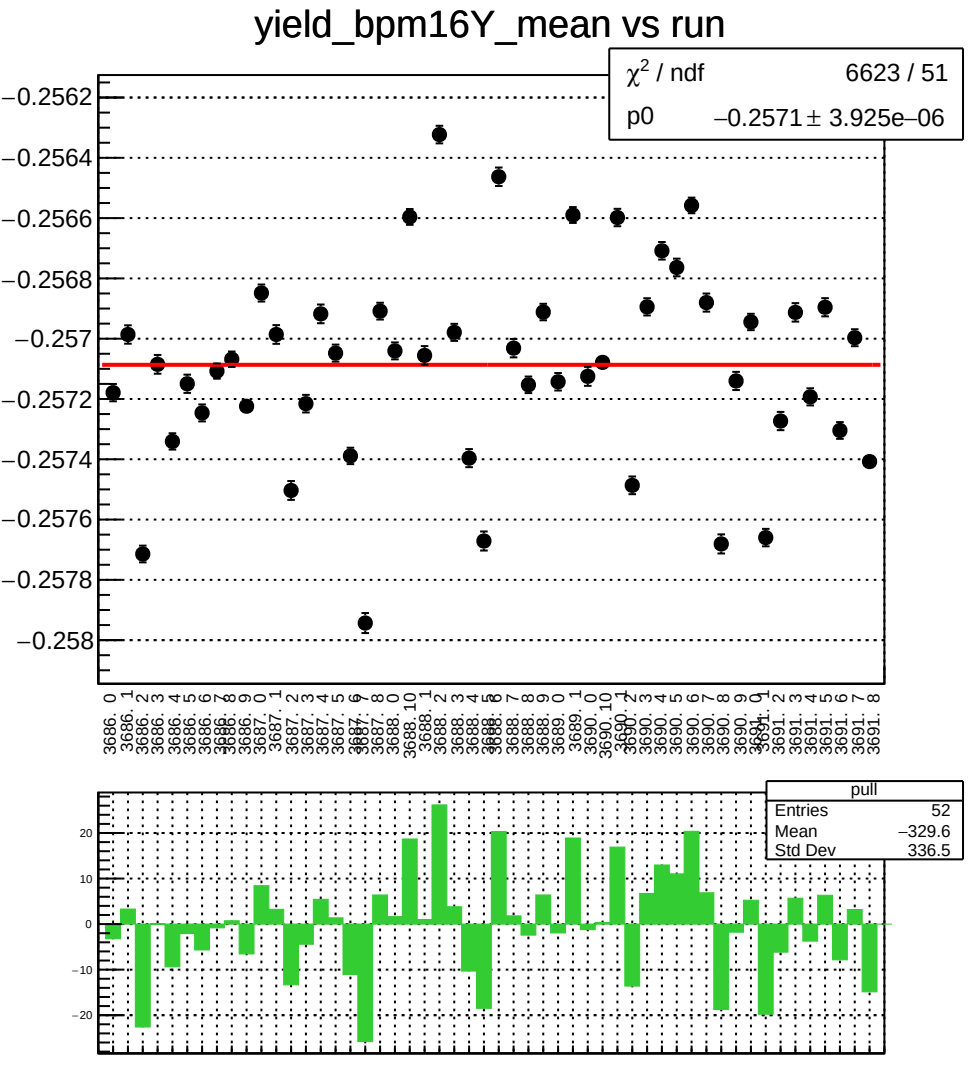

pull1D
Entries 52
Mean 1.255
Std Dev 5.977
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

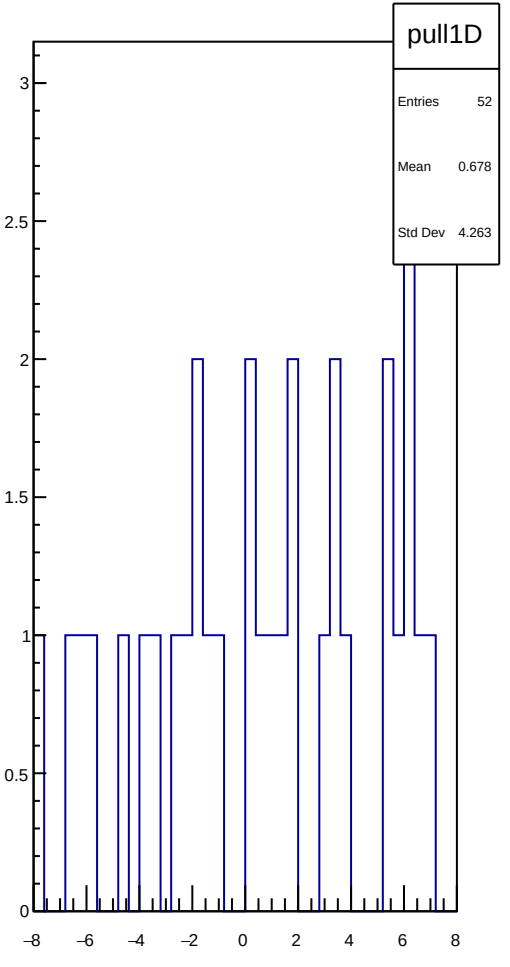

yield_bpm12Y_rms vs run
χ² / ndf 5.94e+04 / 51
p0 0.006338 ± 6.587e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

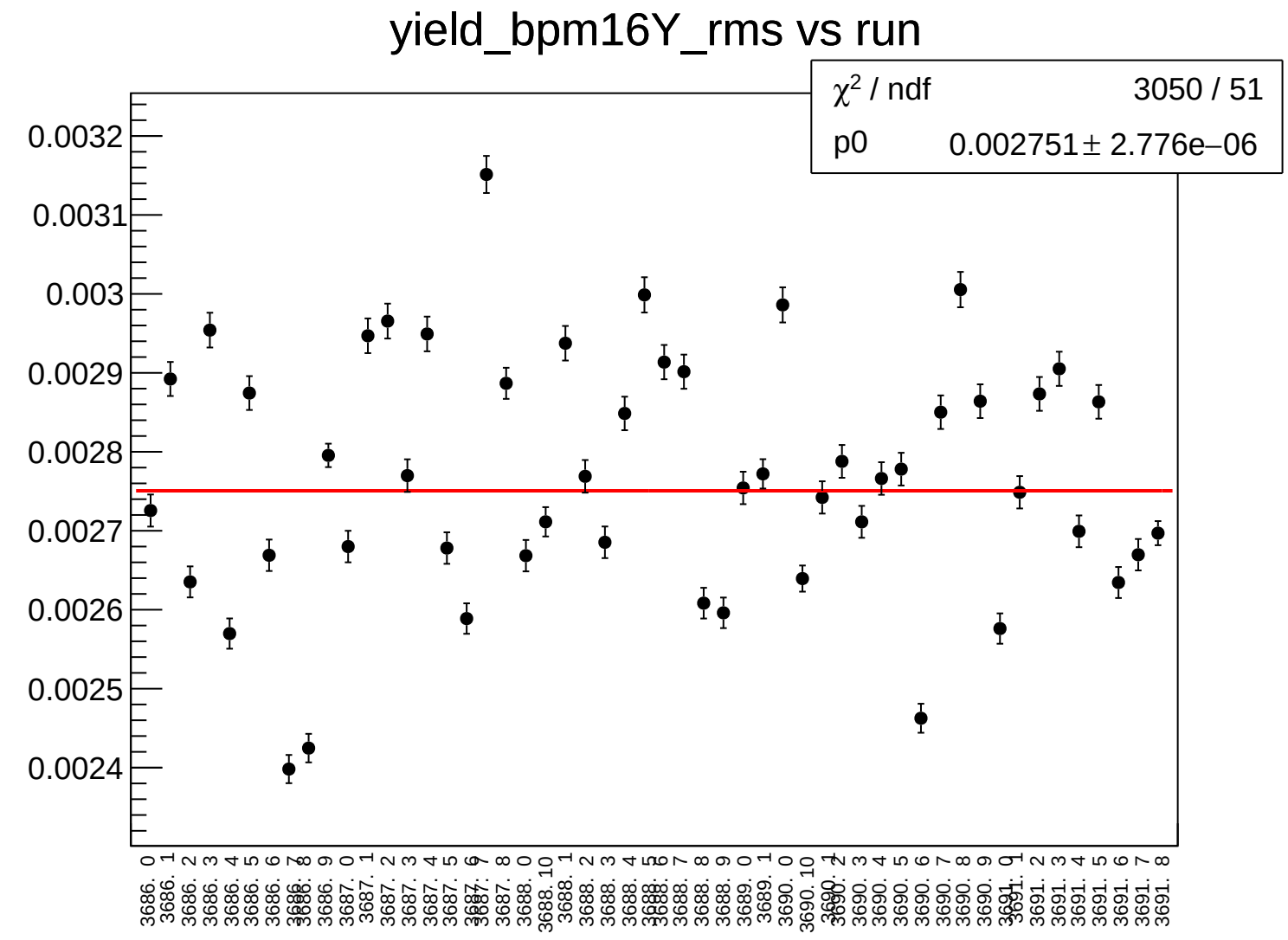

yield_bpm16X_mean vs run
χ² / ndf 2.701e+04 / 51
p0 0.002688 ± 8.534e−06
0.008
0.006
0.004
0.002
0
pull
Entries 52
Mean 14.54
Std Dev 23.12
40
20
0
−20
−40

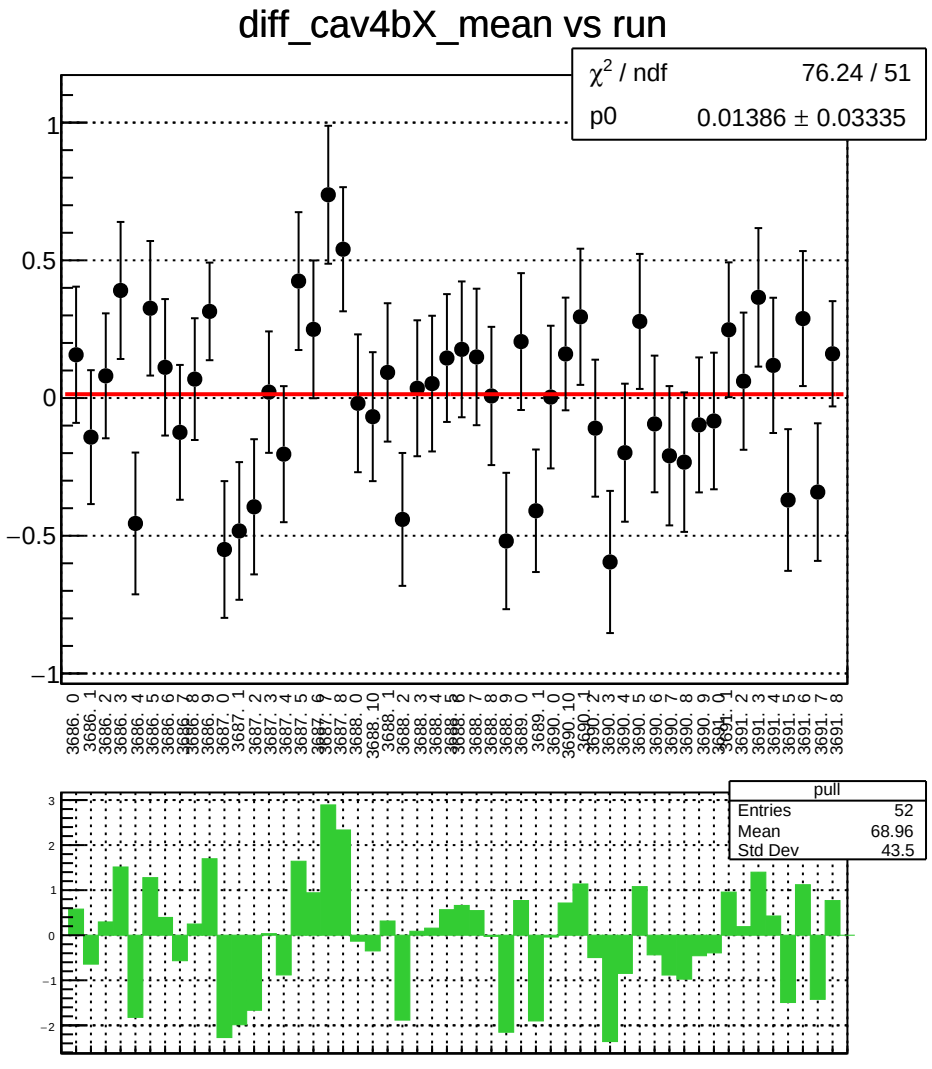

pull1D
Entries 52
Mean −3.029
Std Dev 3.741
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

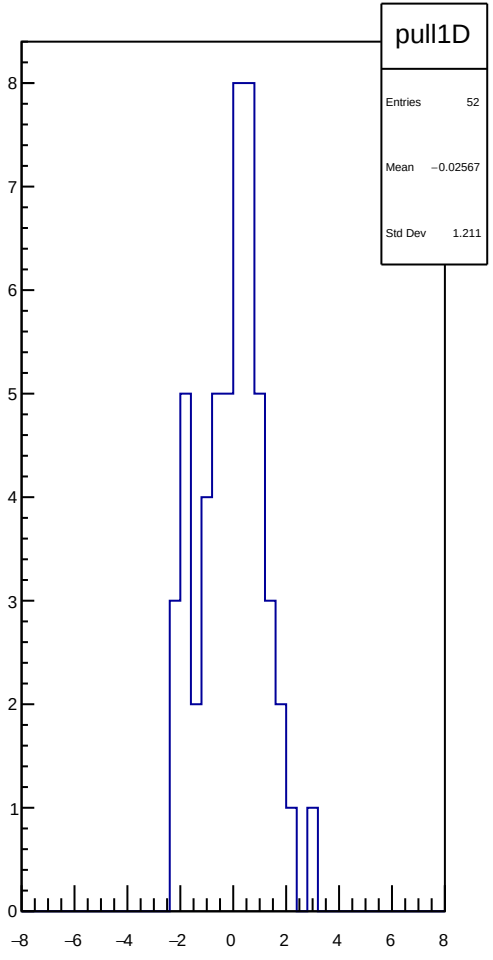

yield_bpm16X_rms vs run
χ² / ndf 3.231e+04 / 51
p0 0.00589 ± 6.034e−06
0.01
0.009
0.008
0.007
0.006
0.005
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

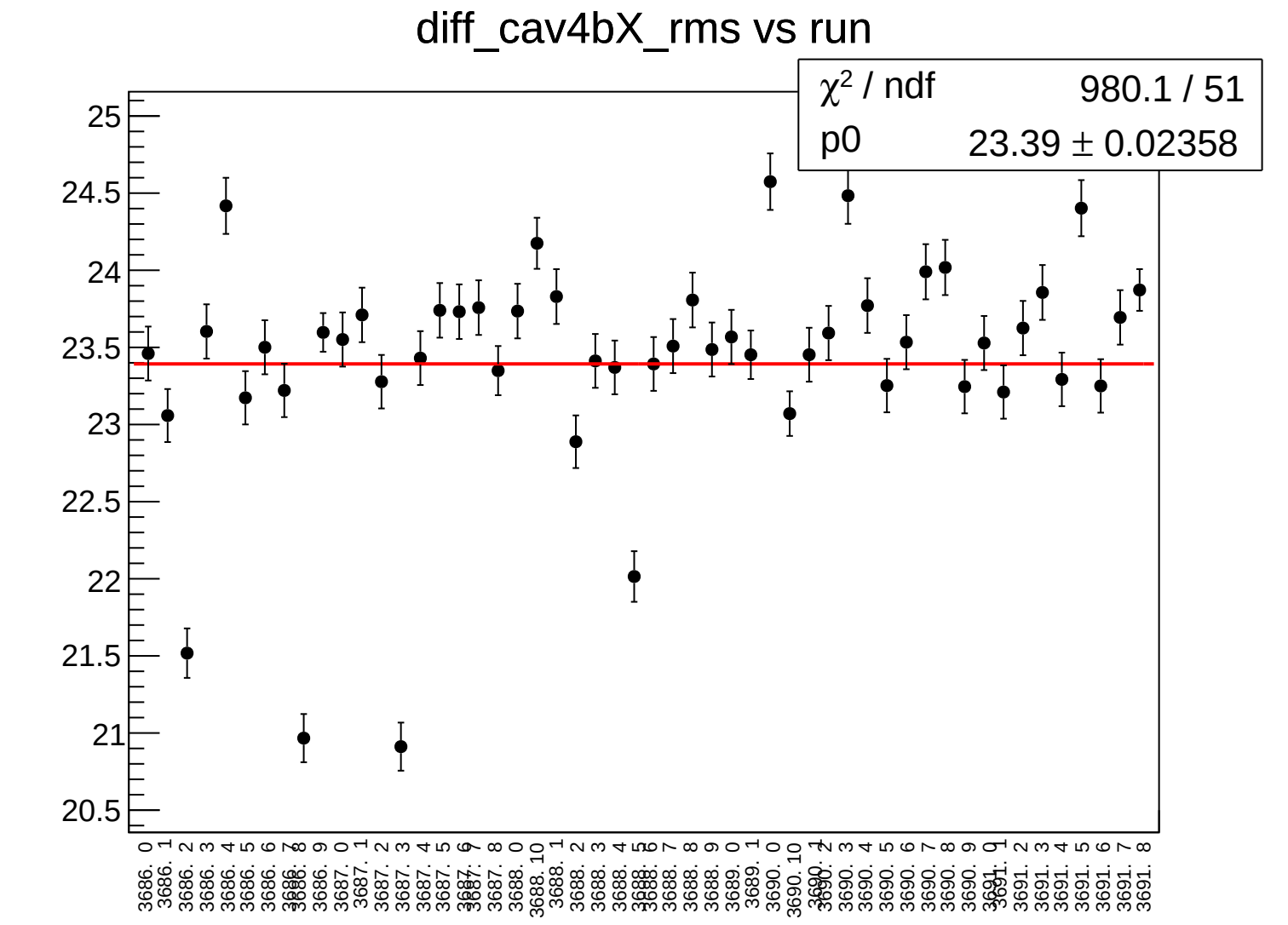

yield_bpm16Y_mean vs run
χ² / ndf 6623 / 51
p0 −0.2571 ± 3.925e−06
−0.2562
−0.2564
−0.2566
−0.2568
−0.257
−0.2572
−0.2574
−0.2576
−0.2578
−0.258
pull
Entries 52
Mean −329.6
Std Dev 336.5
20
10
0
−10
−20

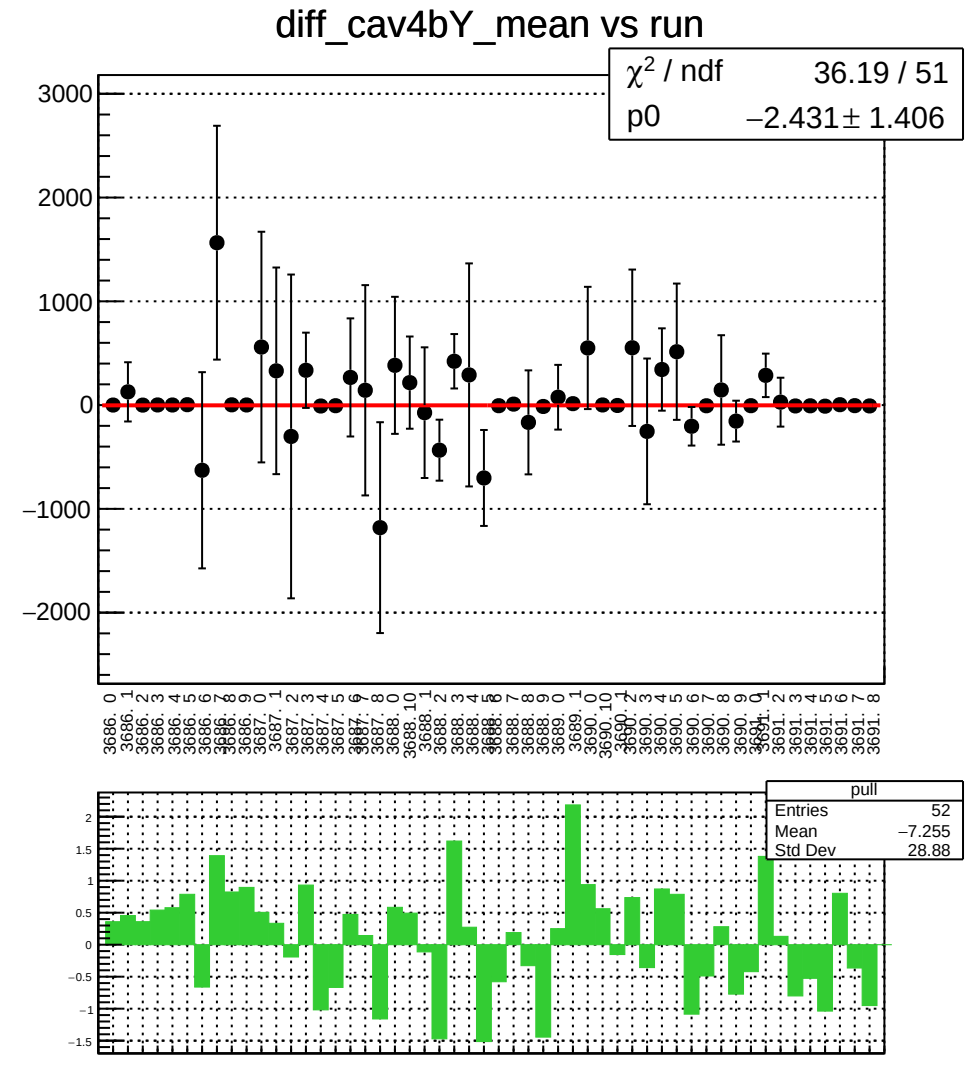

pull1D
Entries 52
Mean 0.678
Std Dev 4.263
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

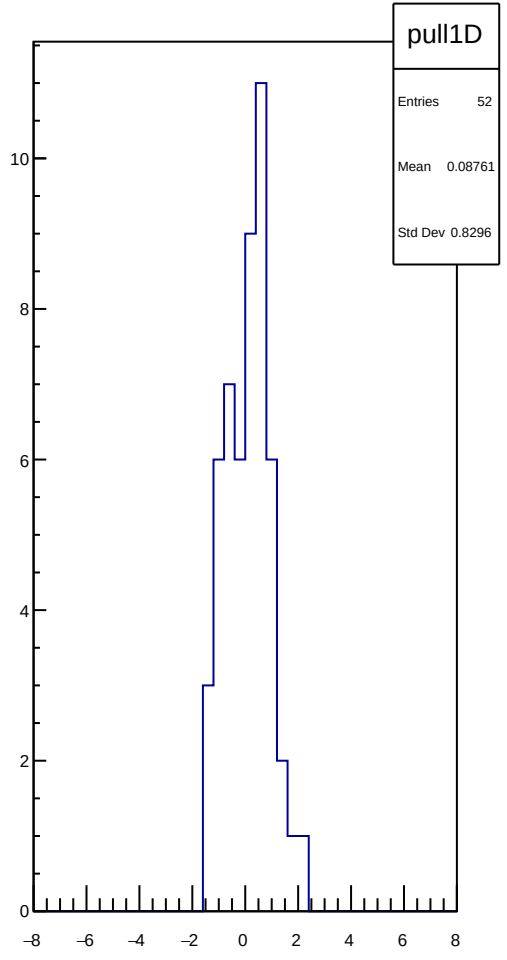

yield_bpm16Y_rms vs run
χ² / ndf 3050 / 51
p0 0.002751 ± 2.776e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

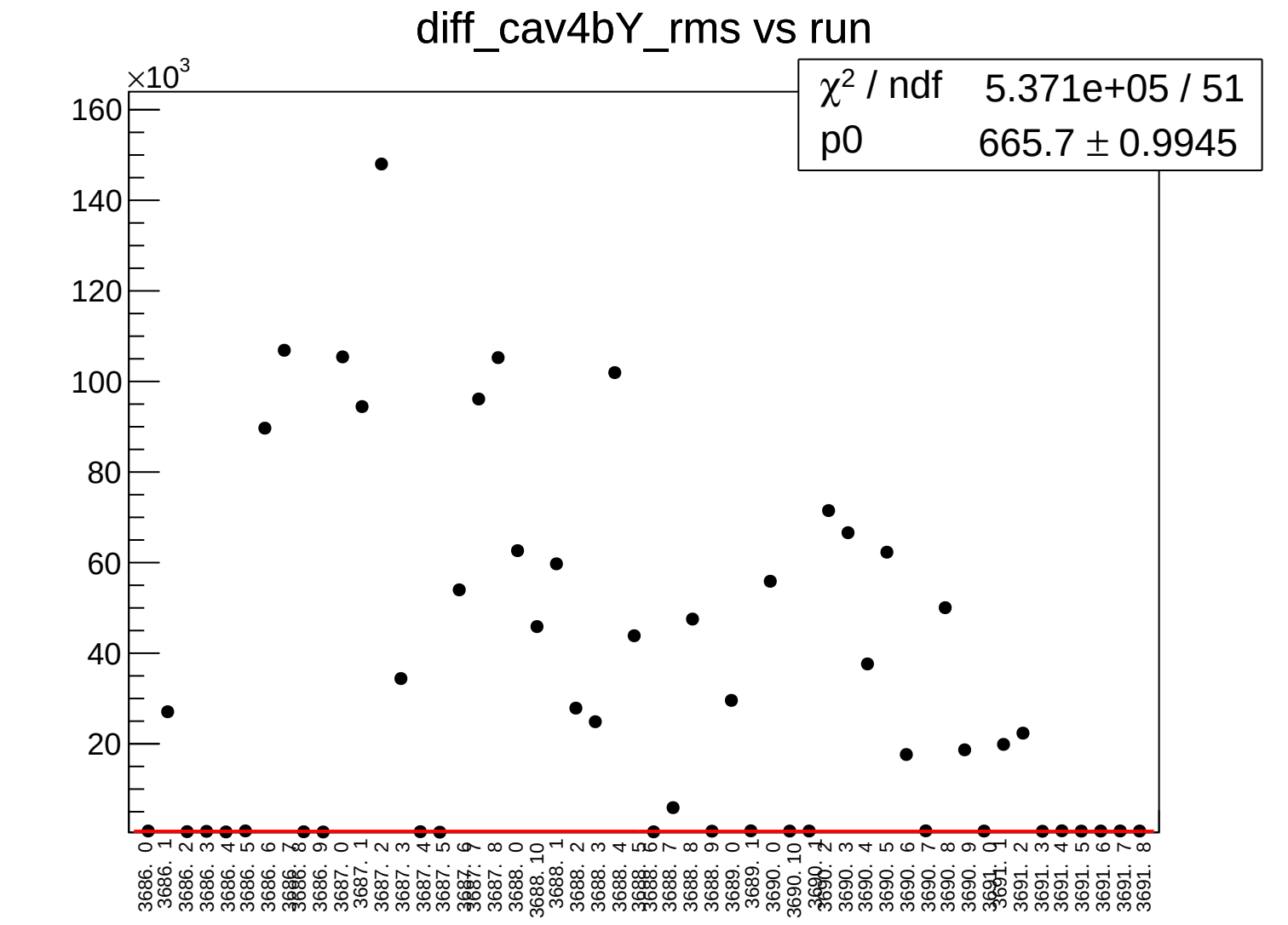

diff_cav4bX_mean vs run
χ^2 / ndf 76.24 / 51
p0 0.01386 ± 0.03335
pull
Entries 52
Mean 68.96
Std Dev 43.5

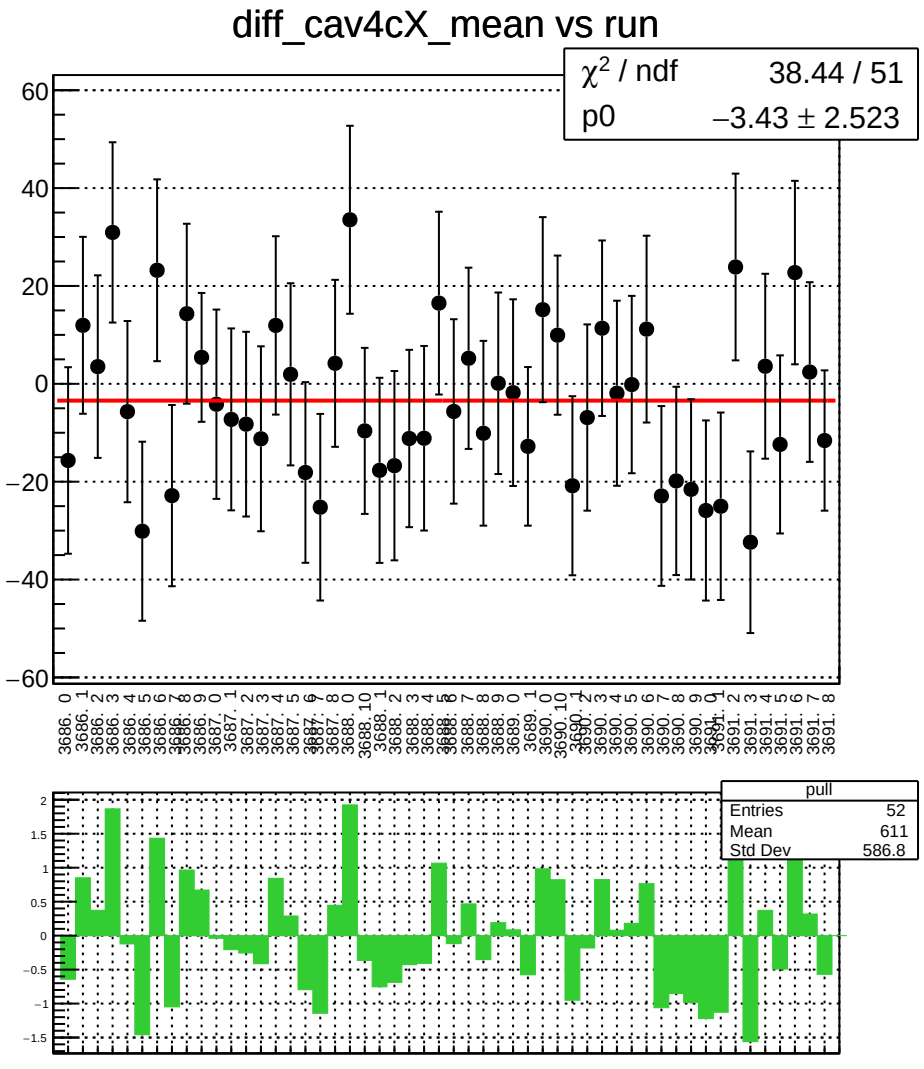

pull1D
Entries 52
Mean −0.02567
Std Dev 1.211

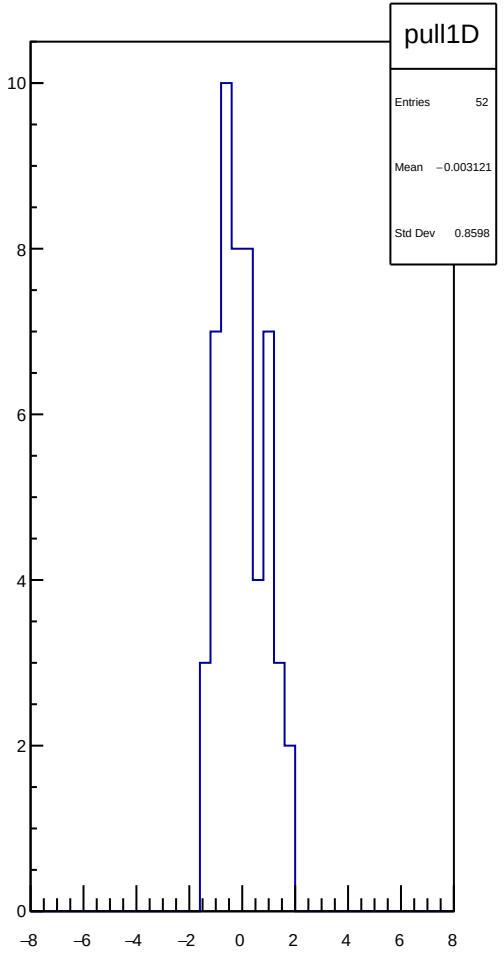

diff_cav4bX_rms vs run
χ² / ndf 980.1 / 51
p0 23.39 ± 0.02358
25
24.5
24
23.5
23
22.5
22
21.5
21
20.5
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

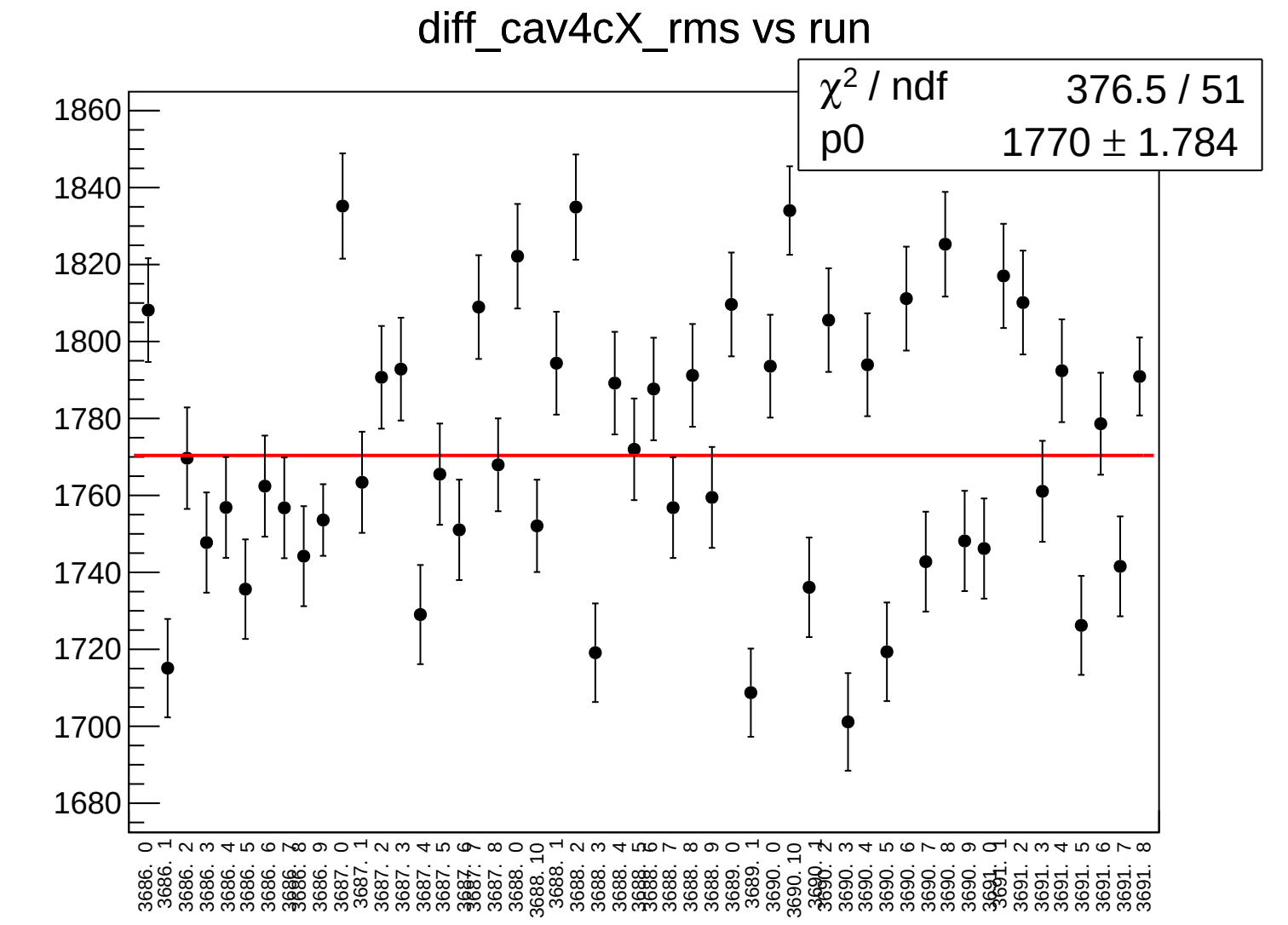

diff_cav4bY_mean vs run
χ² / ndf 36.19 / 51
p0 −2.431± 1.406
pull
Entries 52
Mean −7.255
Std Dev 28.88

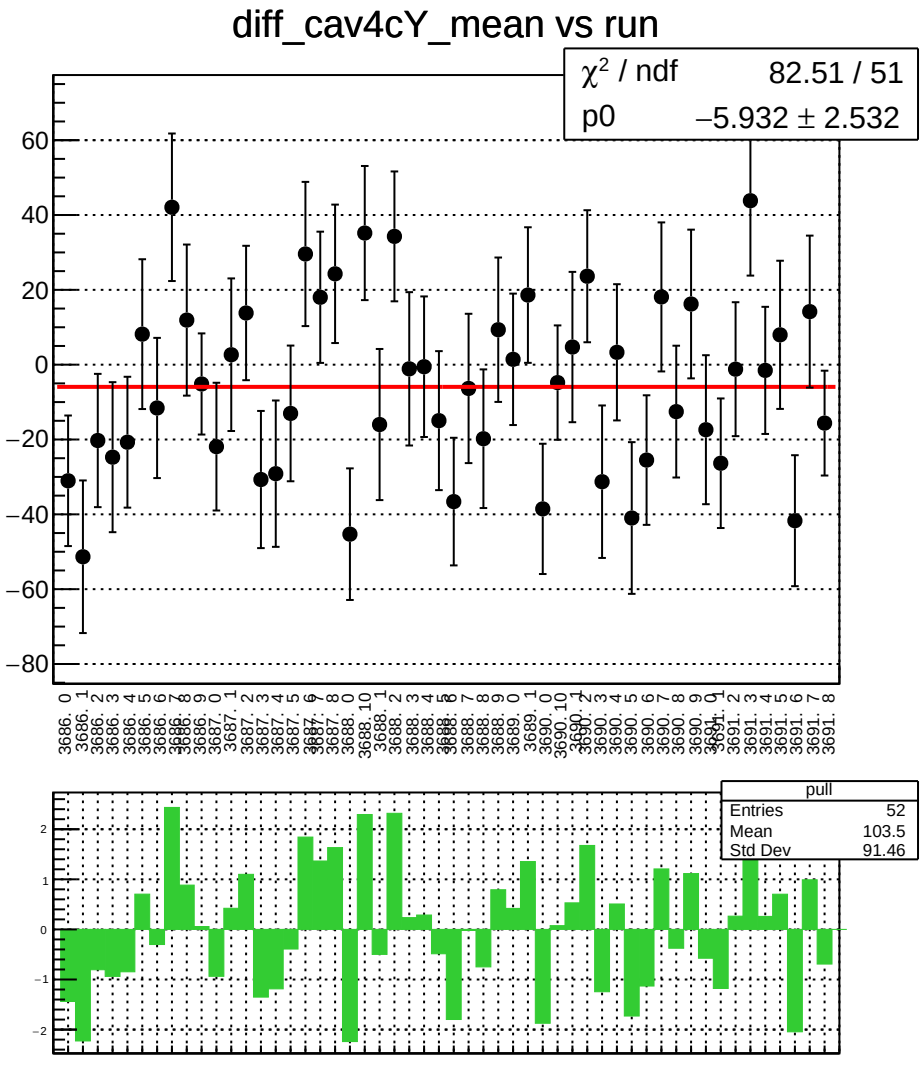

pull1D
Entries 52
Mean 0.08761
Std Dev 0.8296

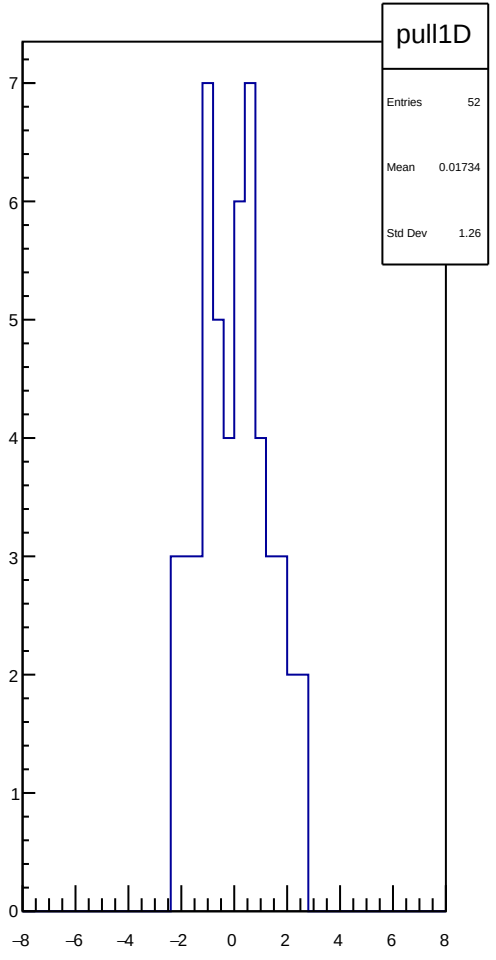

diff_cav4bY_rms vs run
×10^3
χ² / ndf 5.371e+05 / 51
p0 665.7 ± 0.9945
160
140
120
100
80
60
40
20

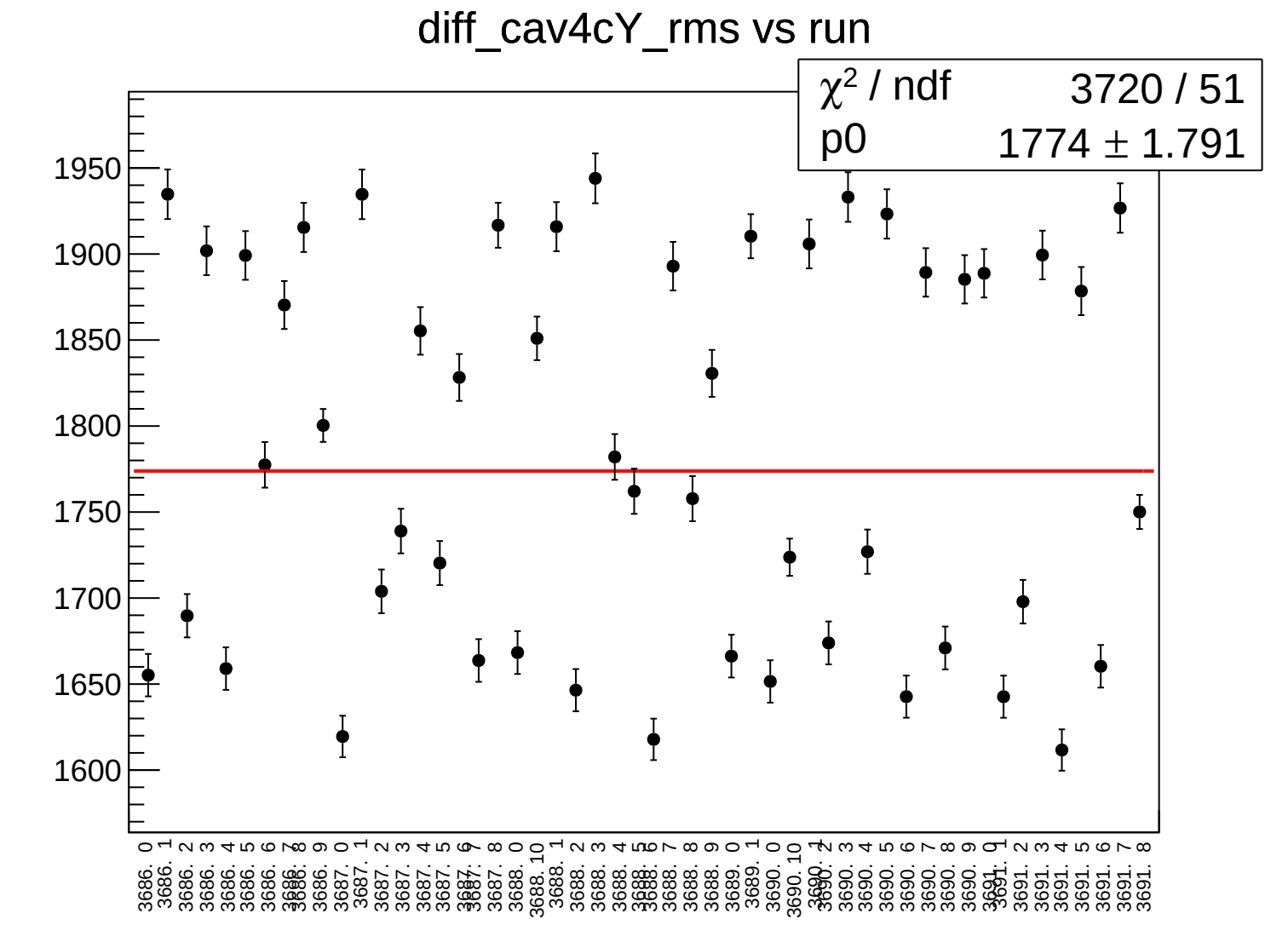

diff_cav4cX_mean vs run
χ² / ndf 38.44 / 51
p0 −3.43 ± 2.523
pull
Entries 52
Mean 611
Std Dev 586.8

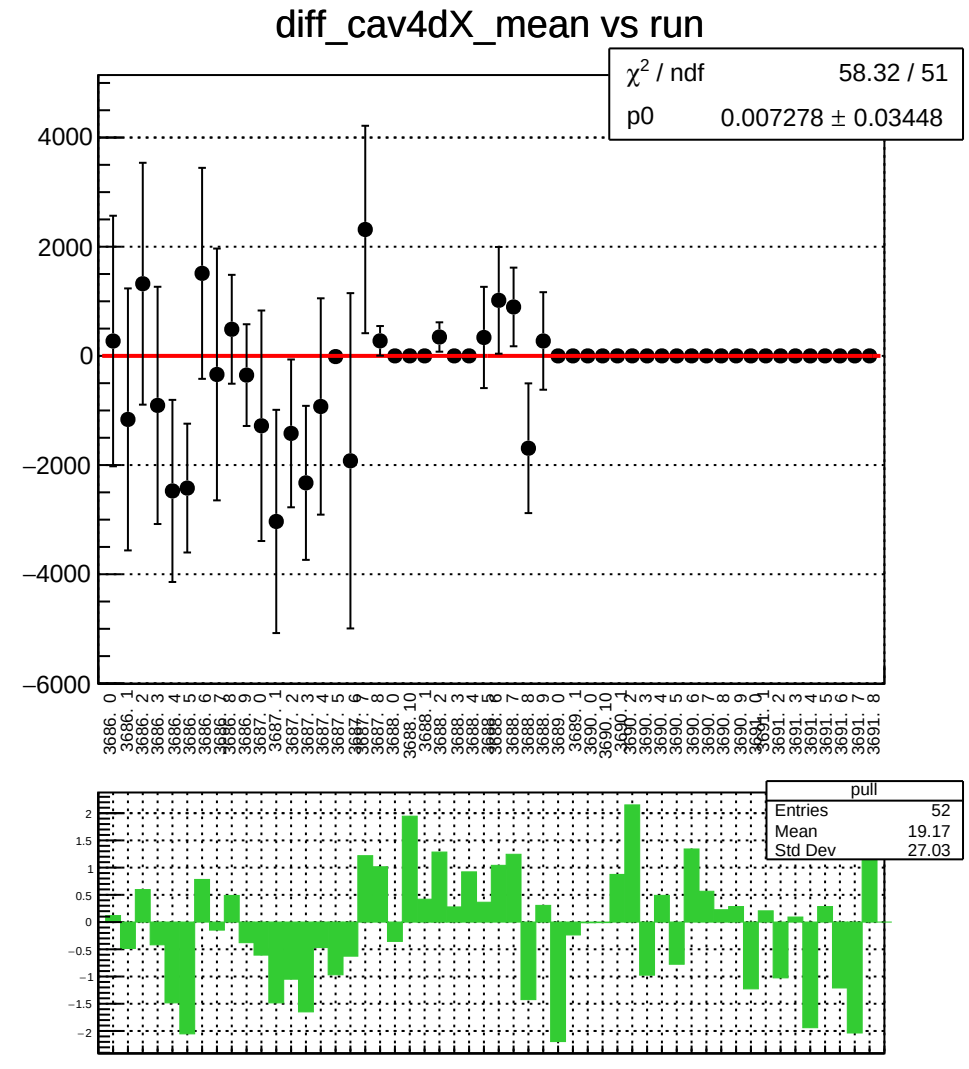

pull1D
Entries 52
Mean −0.003121
Std Dev 0.8598

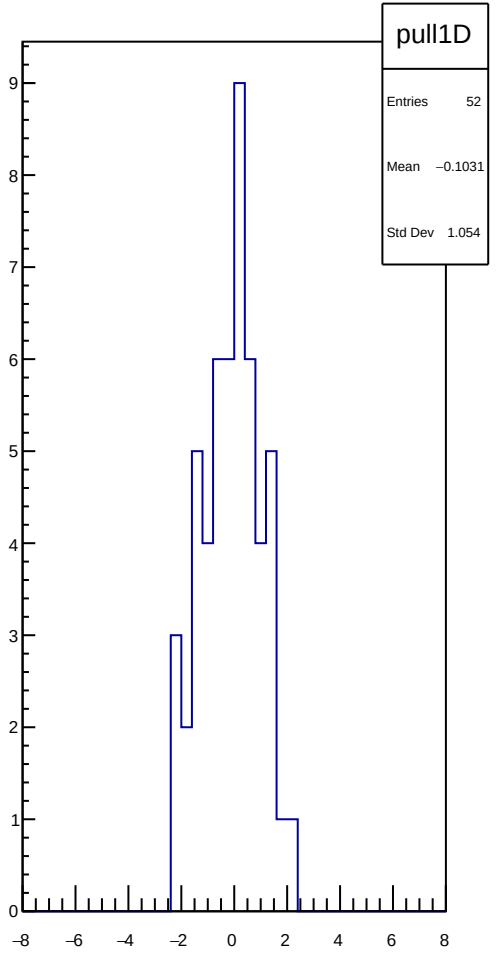

diff_cav4cX_rms vs run
χ² / ndf 376.5 / 51
p0 1770 ± 1.784
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

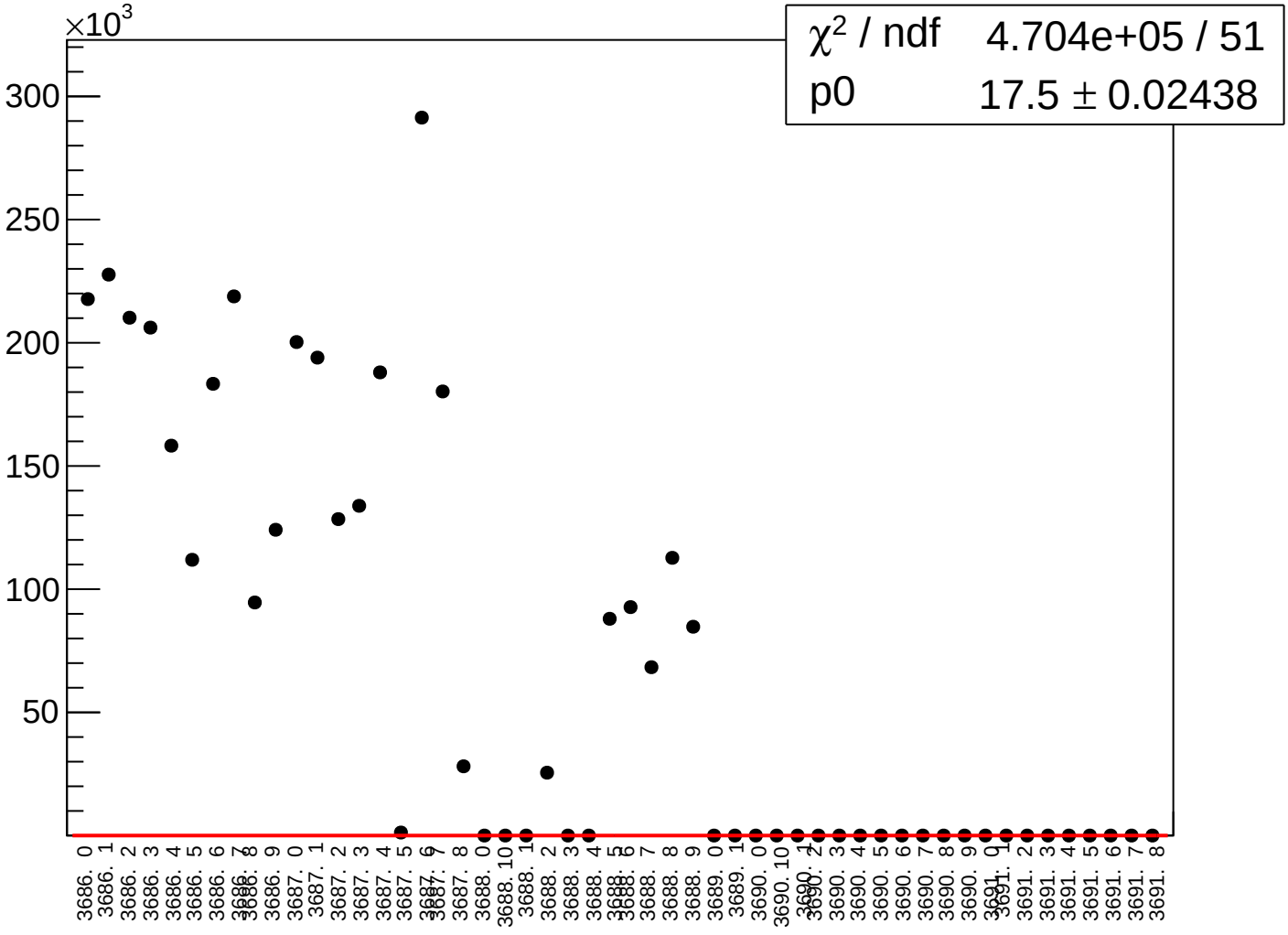

diff_cav4cY_mean vs run
χ² / ndf 82.51 / 51
p0 −5.932 ± 2.532
pull
Entries 52
Mean 103.5
Std Dev 91.46

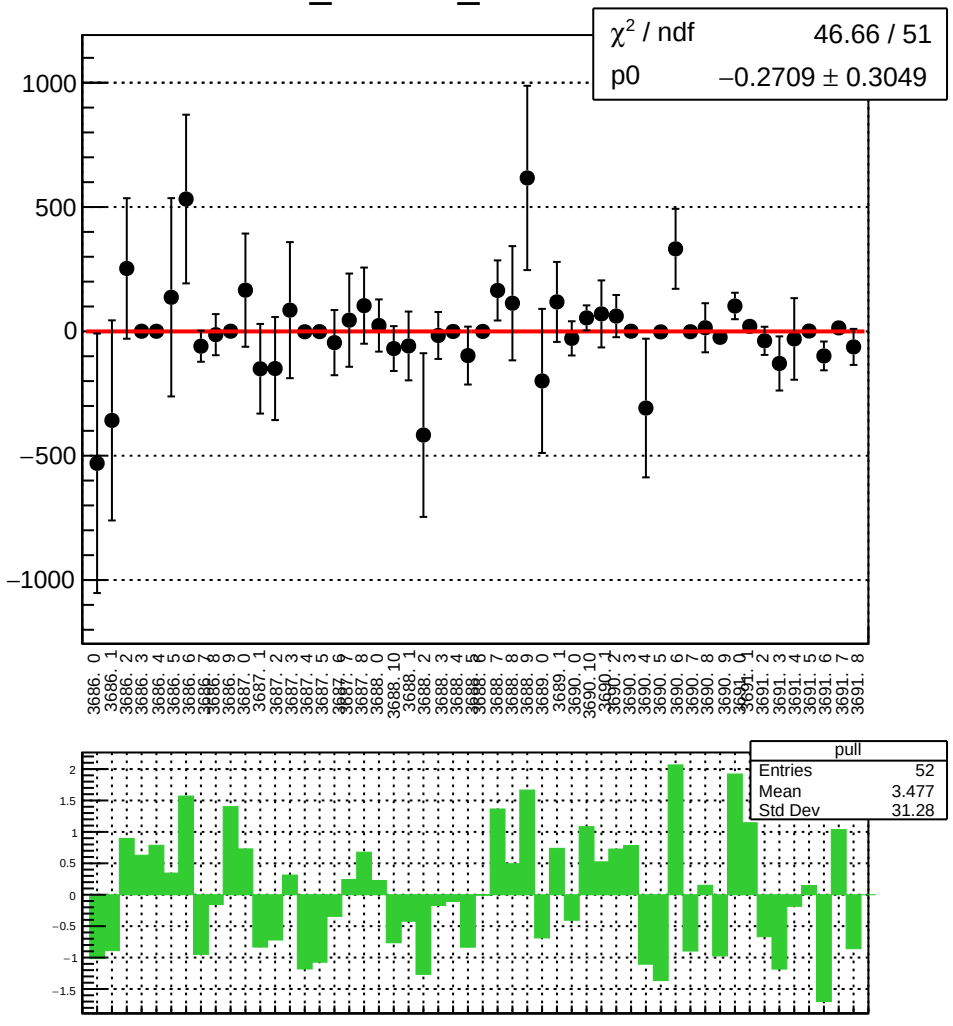

pull1D
Entries 52
Mean 0.01734
Std Dev 1.26

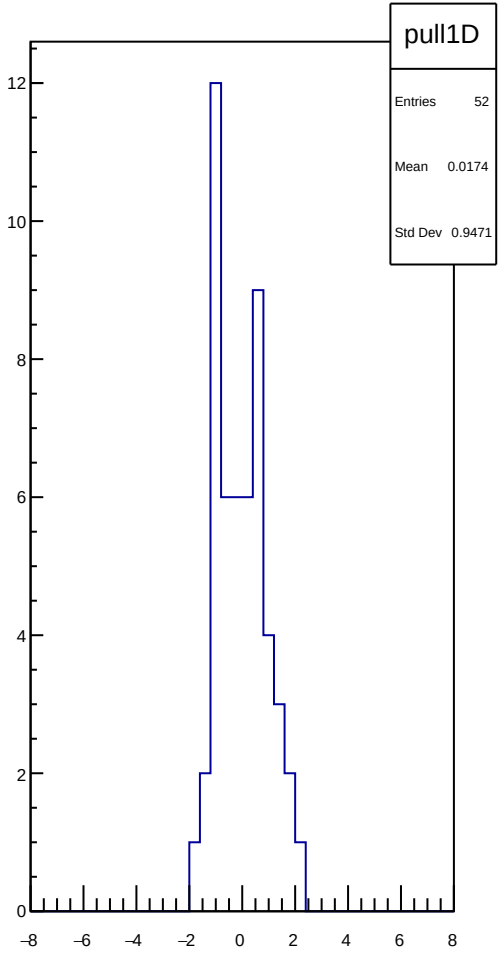

diff_cav4cY_rms vs run
χ² / ndf 3720 / 51
p0 1774 ± 1.791
1950
1900
1850
1800
1750
1700
1650
1600
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

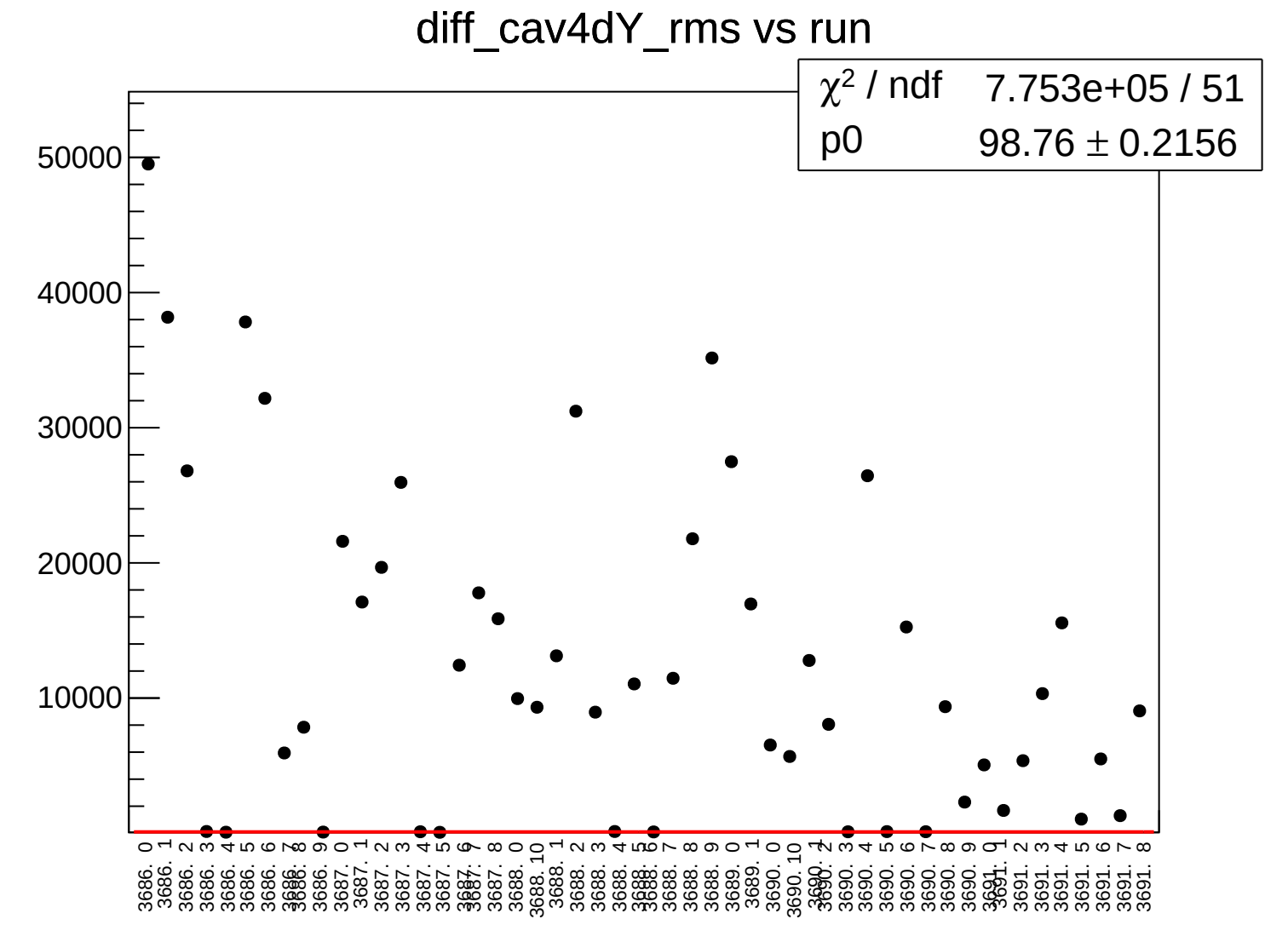

diff_cav4dX_mean vs run
χ² / ndf 58.32 / 51
p0 0.007278 ± 0.03448
4000
2000
0
−2000
−4000
−6000
pull
Entries 52
Mean 19.17
Std Dev 27.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

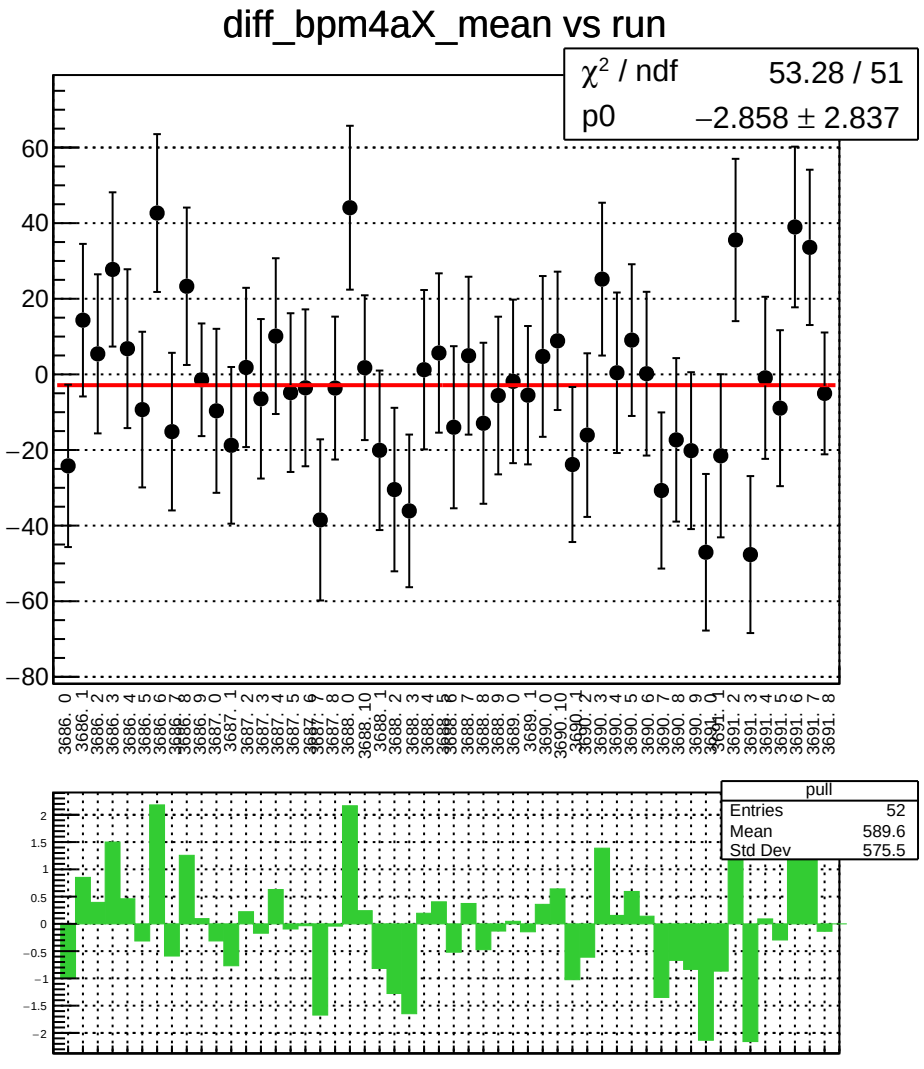

pull1D
Entries 52
Mean −0.1031
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

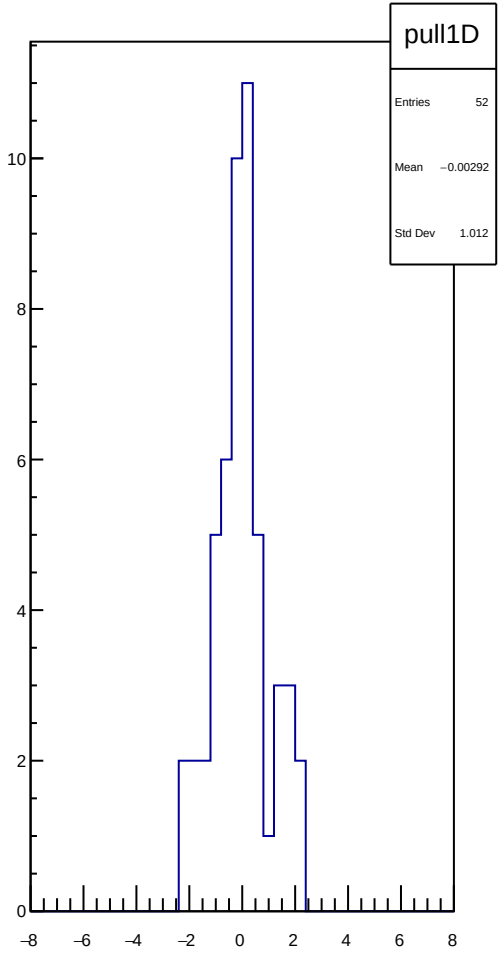

diff_cav4dX_rms vs run
χ² / ndf 4.704e+05 / 51
p0 17.5 ± 0.02438
×10³
300
250
200
150
100
50

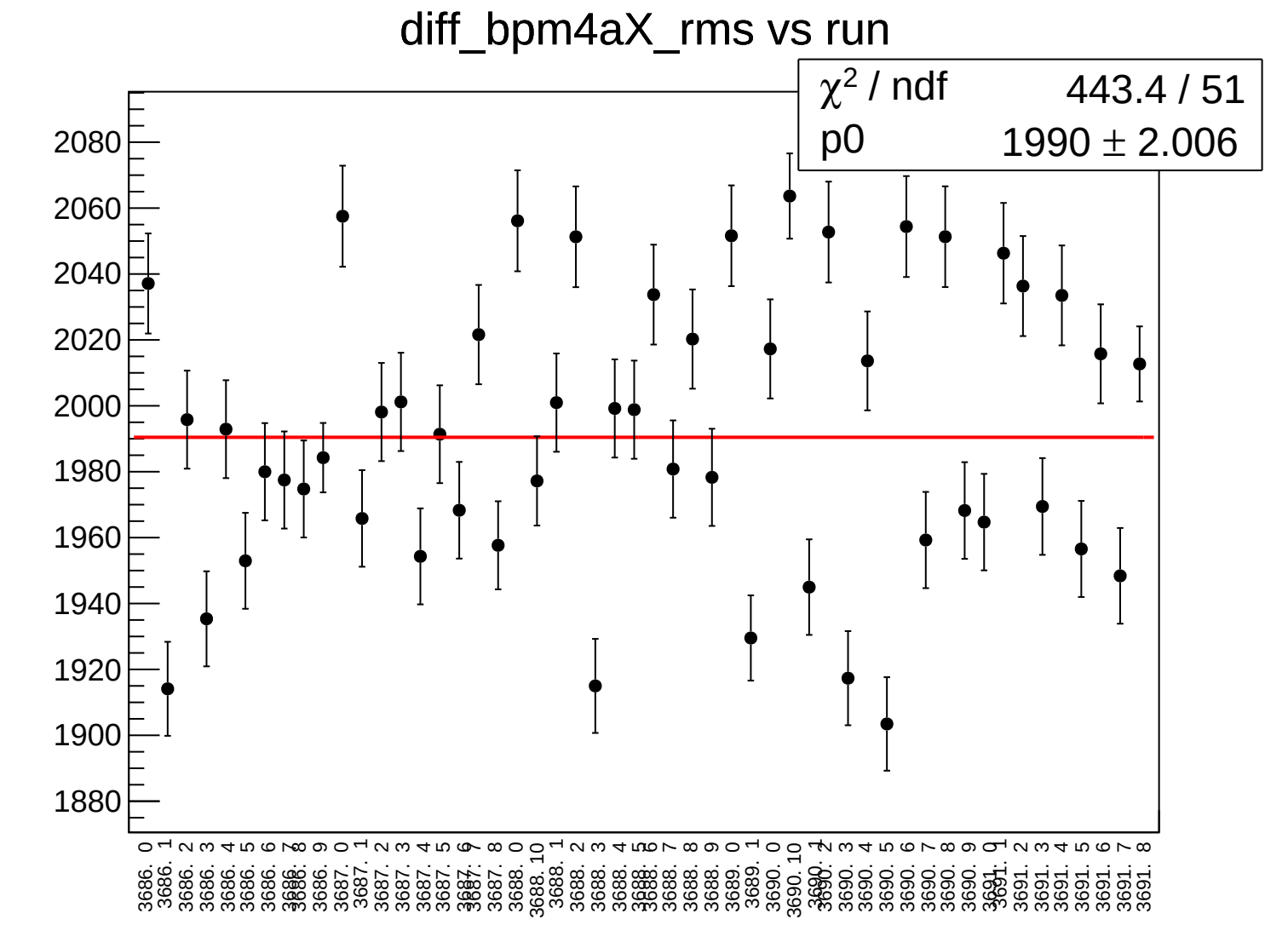

diff_cav4dY_mean vs run
χ² / ndf 46.66 / 51
p0 −0.2709 ± 0.3049
pull
Entries 52
Mean 3.477
Std Dev 31.28

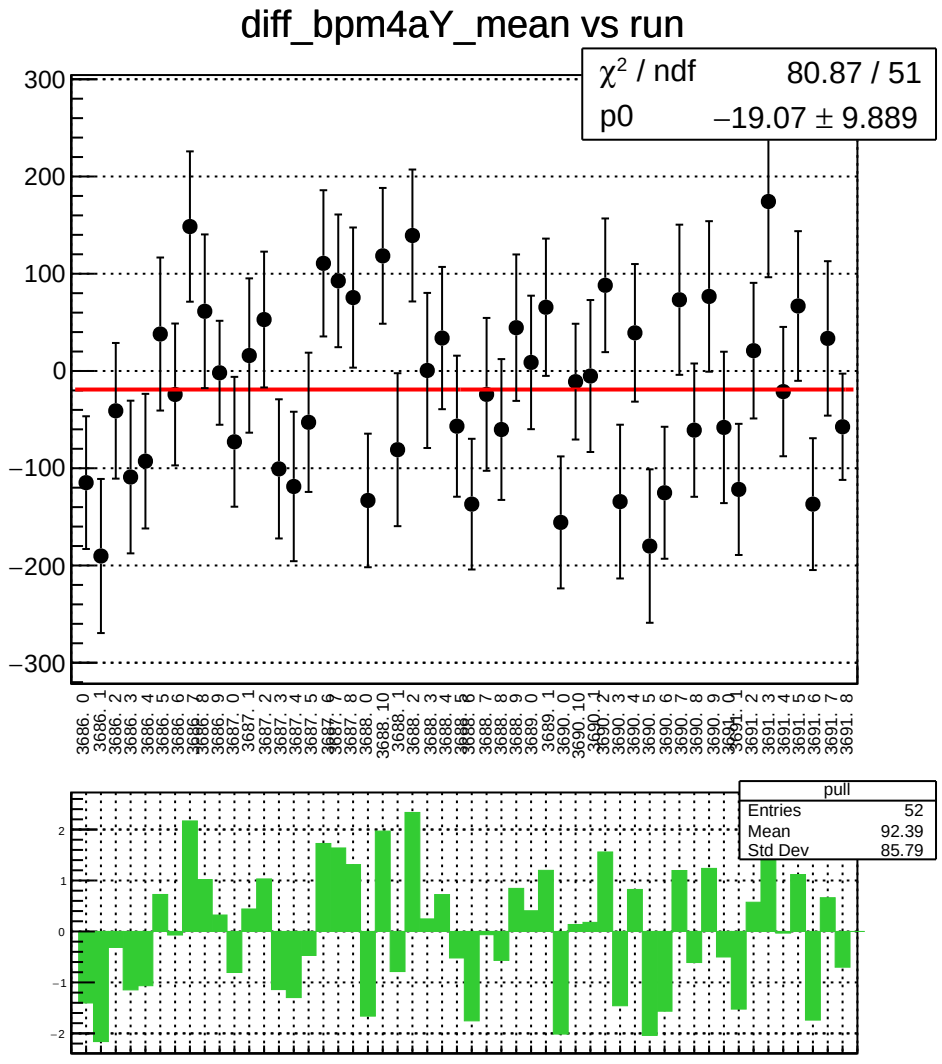

pull1D
Entries 52
Mean 0.0174
Std Dev 0.9471

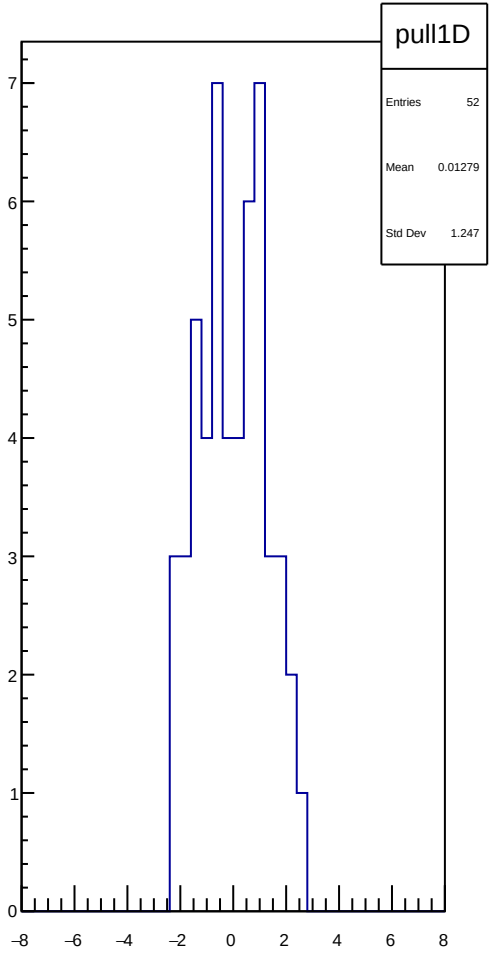

diff_cav4dY_rms vs run
χ² / ndf 7.753e+05 / 51
p0 98.76 ± 0.2156
50000
40000
30000
20000
10000

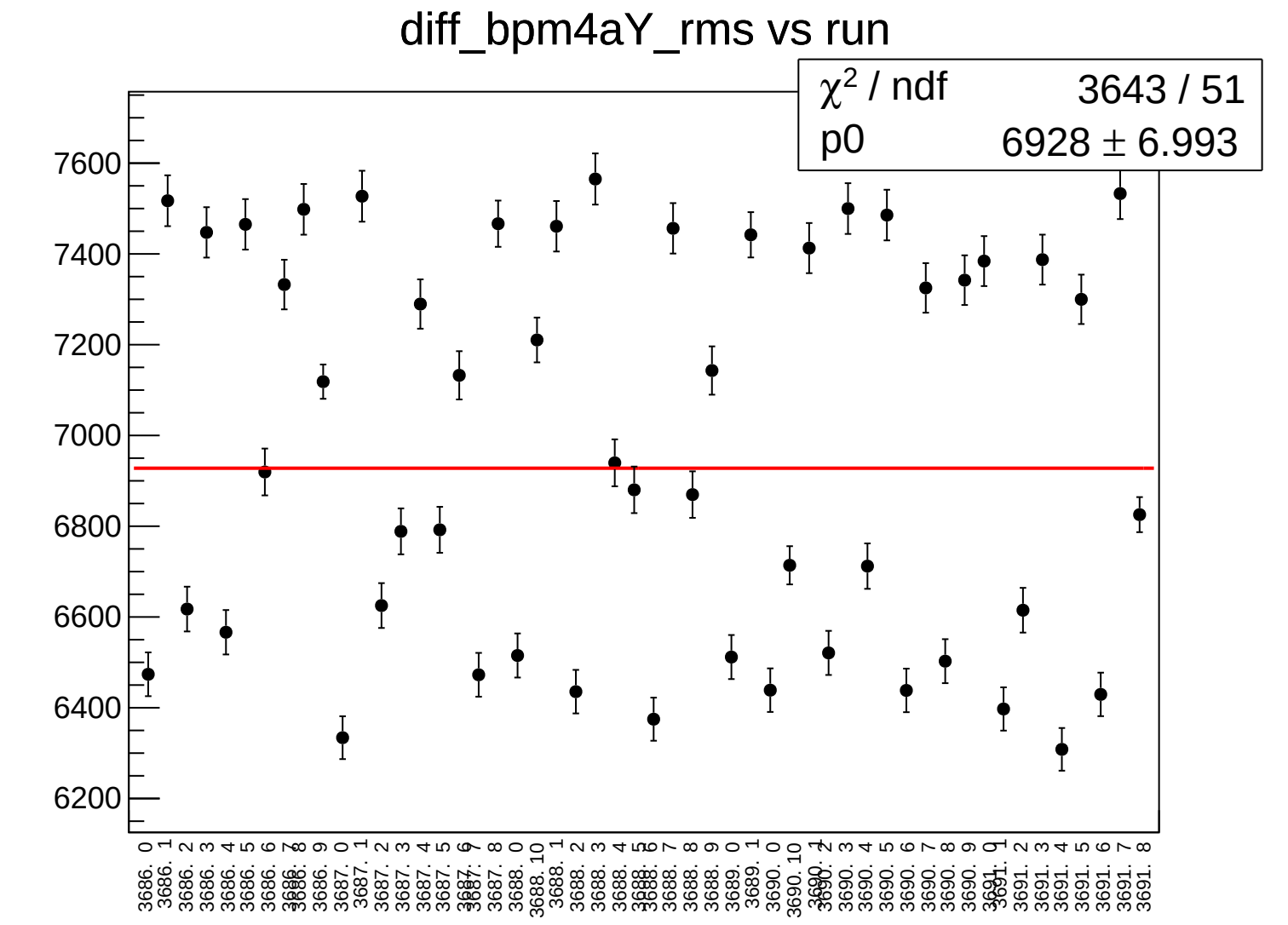

diff_bpm4aX_mean vs run
χ² / ndf 53.28 / 51
p0 −2.858 ± 2.837
pull
Entries 52
Mean 589.6
Std Dev 575.5


pull1D
Entries 52
Mean −0.00292
Std Dev 1.012


diff_bpm4aX_rms vs run
χ² / ndf 443.4 / 51
p0 1990 ± 2.006
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


diff_bpm4aY_mean vs run
χ² / ndf 80.87 / 51
p0 −19.07 ± 9.889
pull
Entries 52
Mean 92.39
Std Dev 85.79


pull1D
Entries 52
Mean 0.01279
Std Dev 1.247


diff_bpm4aY_rms vs run
χ² / ndf 3643 / 51
p0 6928 ± 6.993
7600
7400
7200
7000
6800
6600
6400
6200
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
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3691. 5
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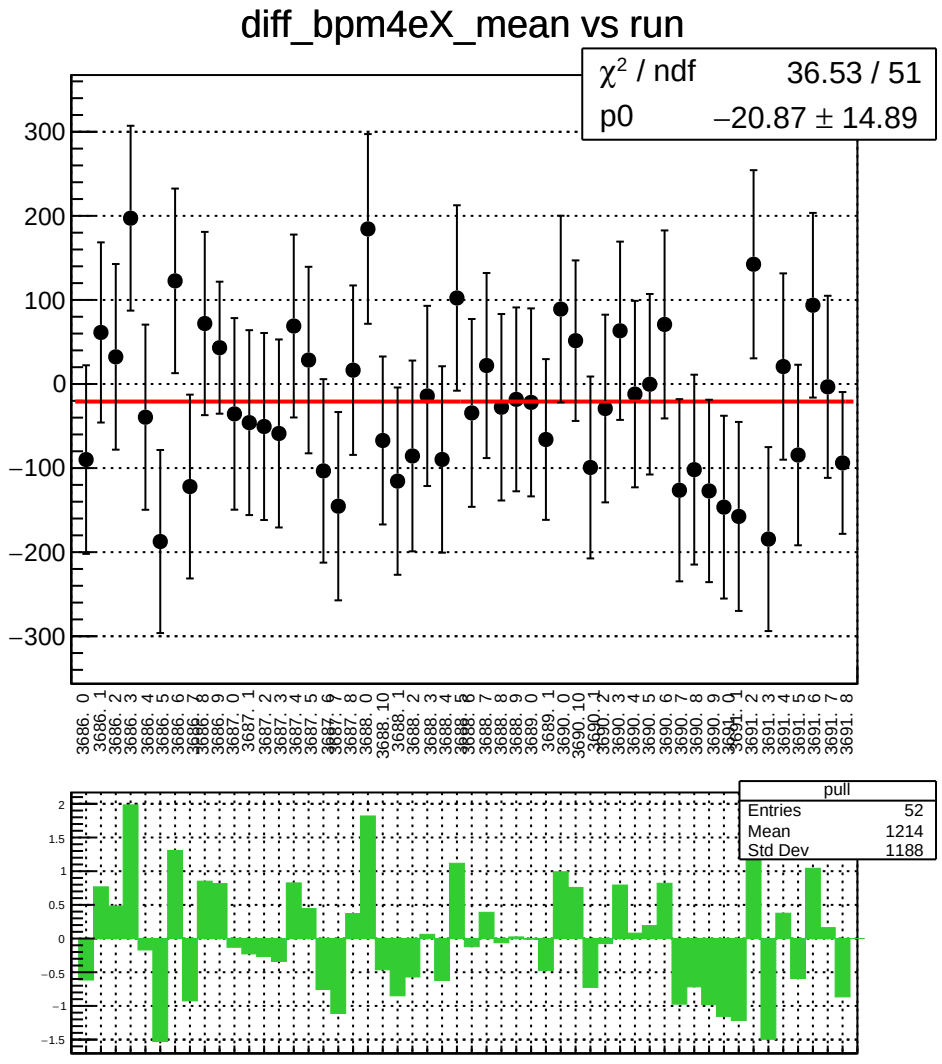
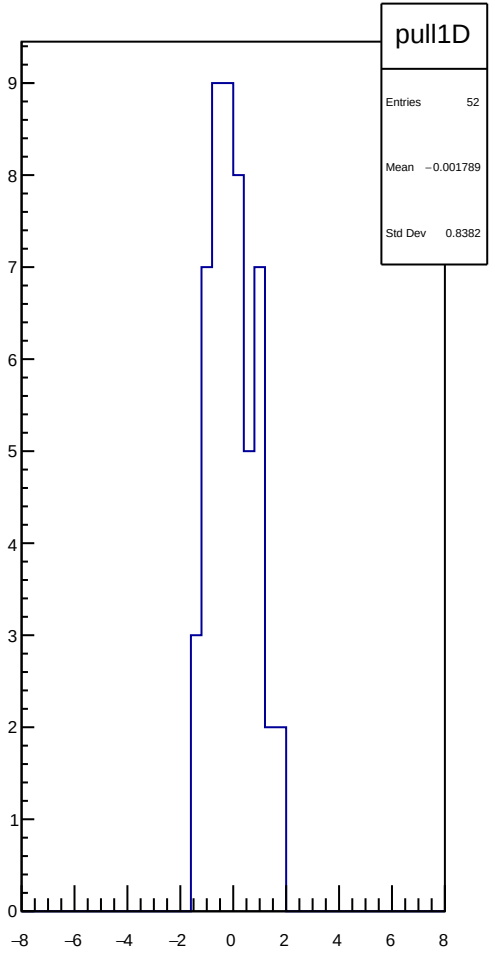
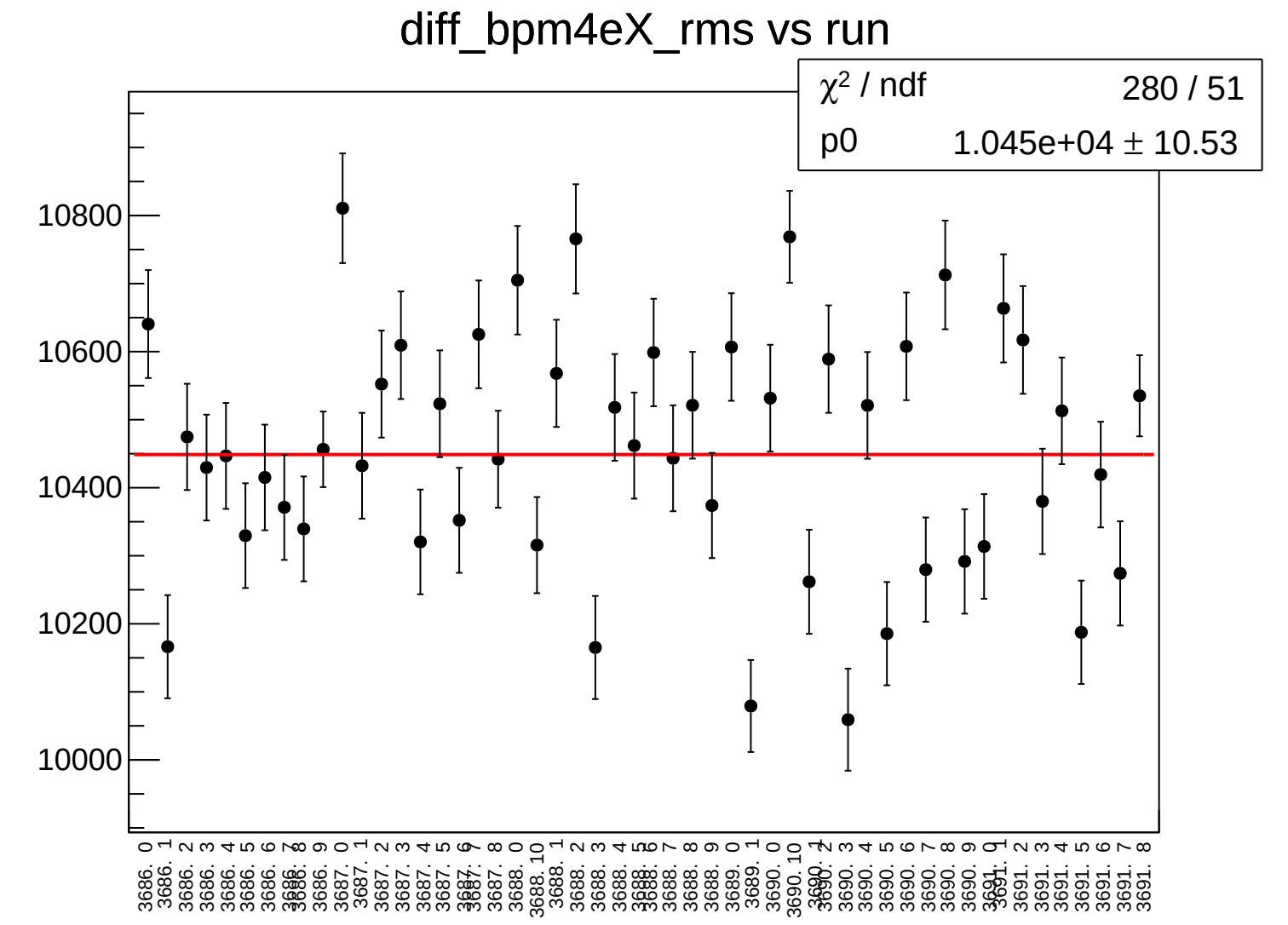
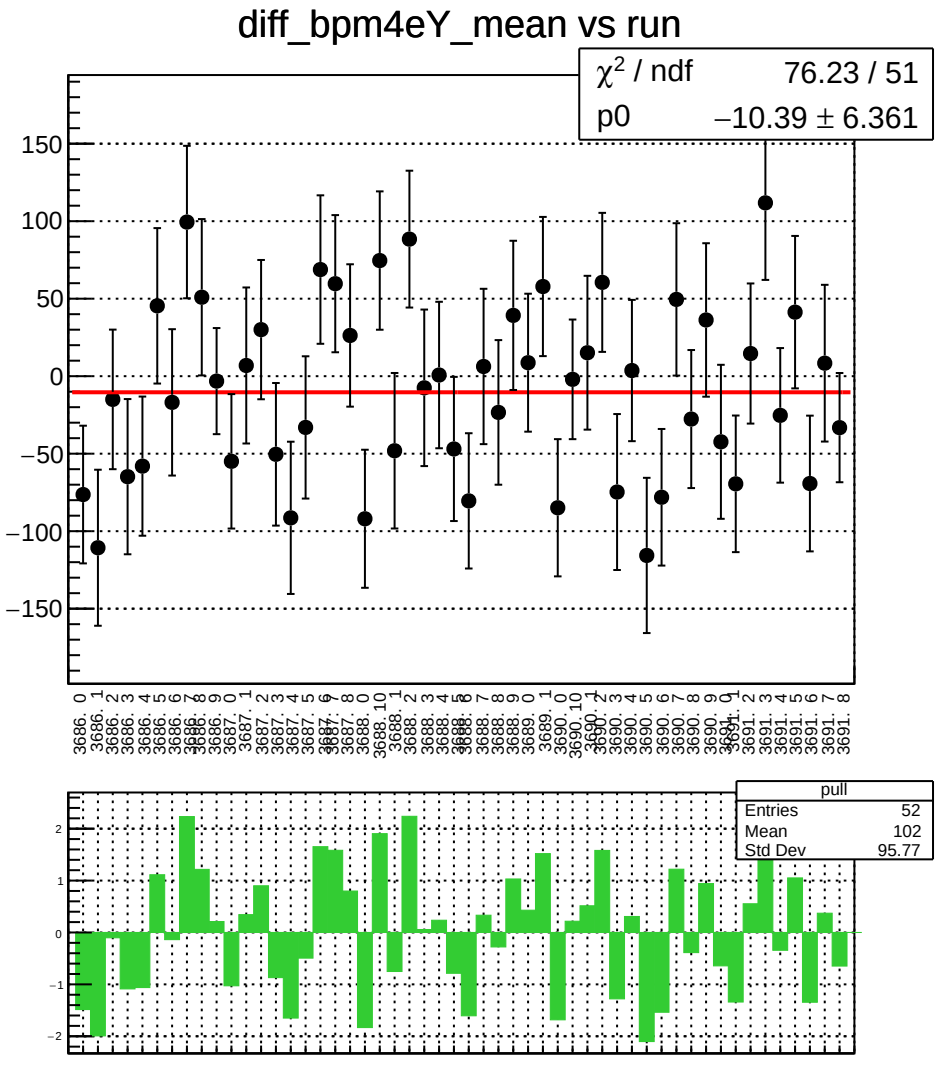
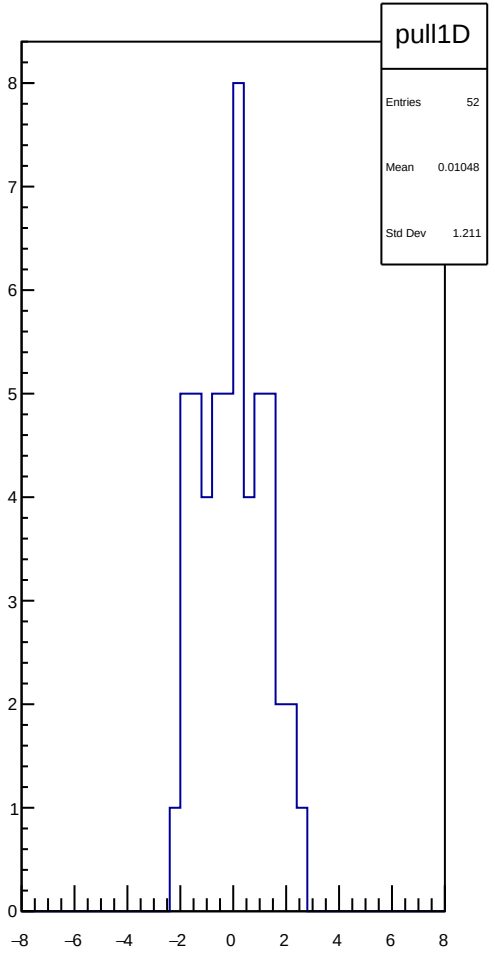
3691. 7
3691. 8

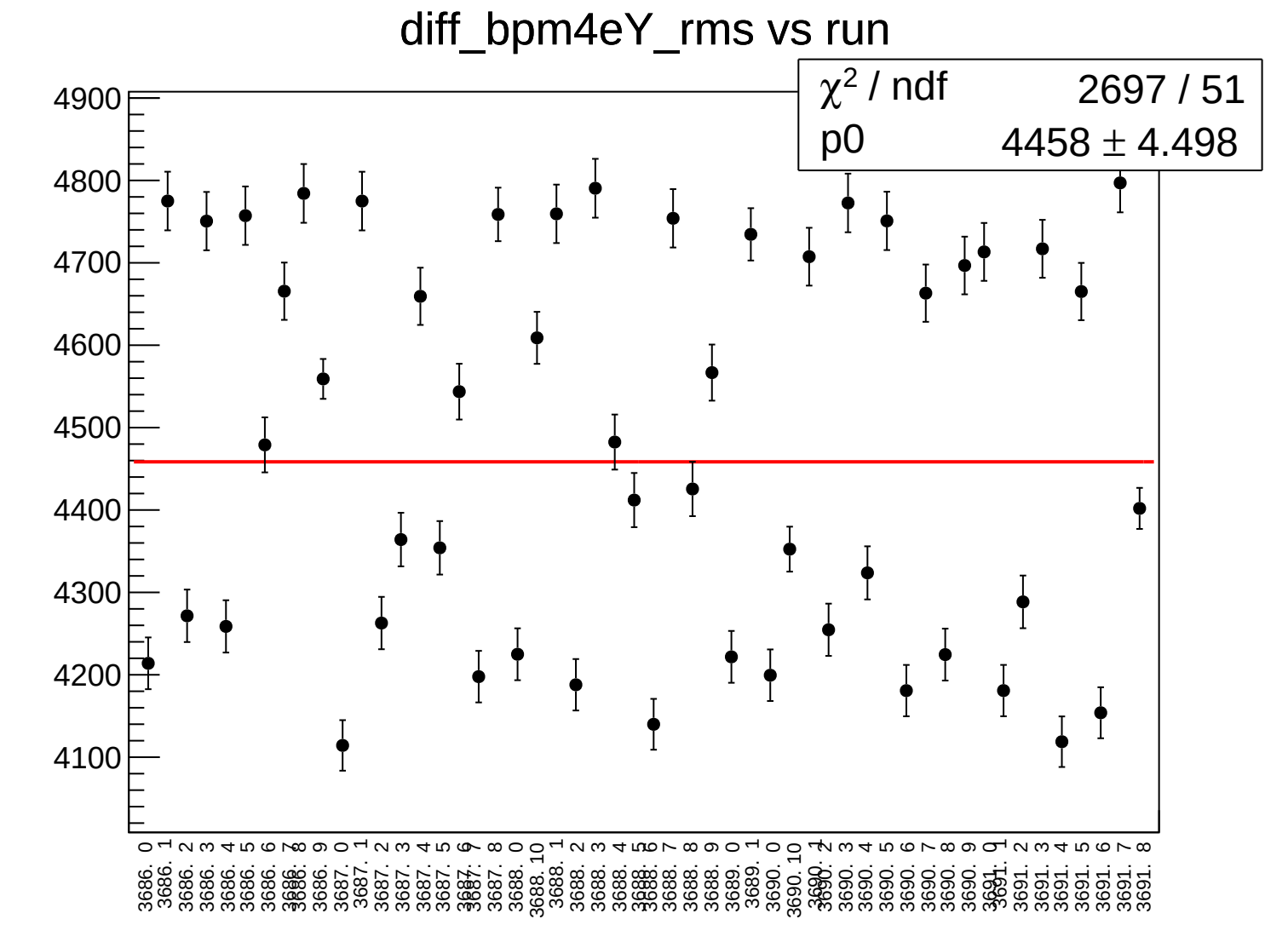

diff_bpm4eX_mean vs run
χ² / ndf 36.53 / 51
p0 −20.87 ± 14.89
pull
Entries 52
Mean 1214
Std Dev 1188

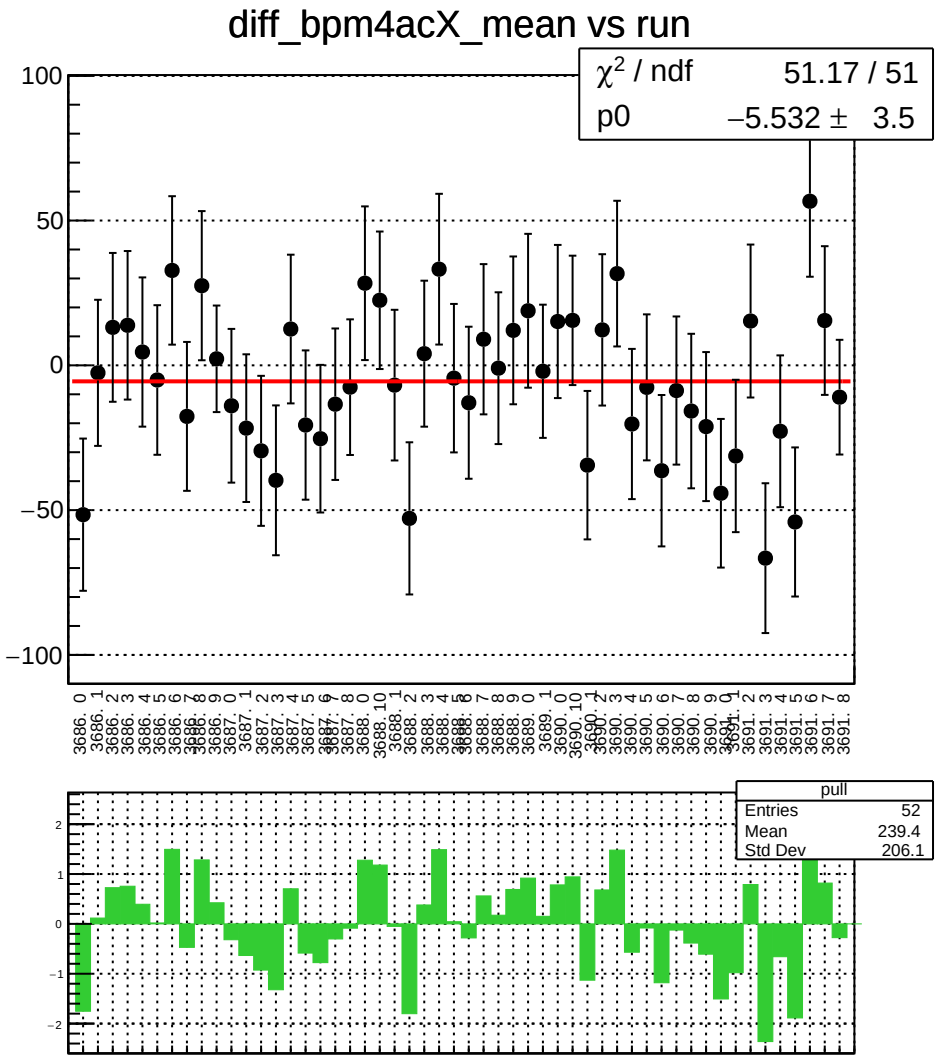

pull1D
Entries 52
Mean −0.001789
Std Dev 0.8382

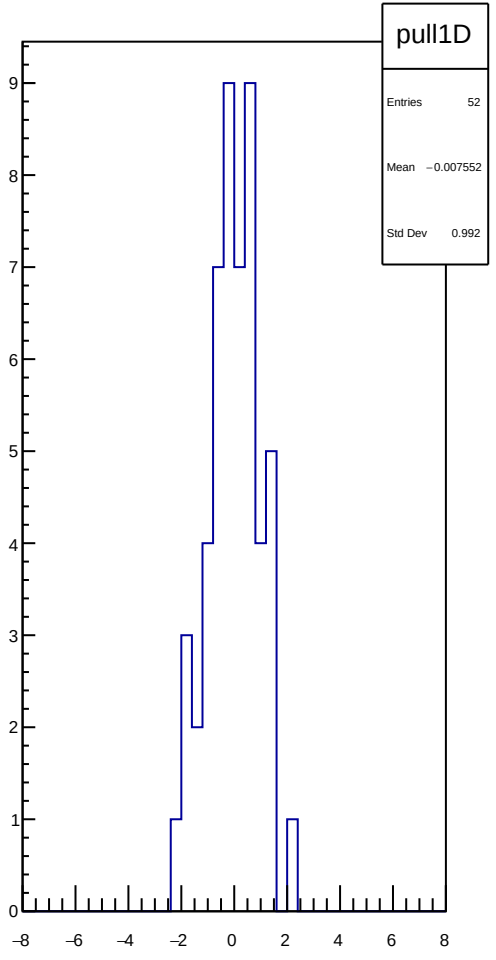

diff_bpm4eX_rms vs run
χ² / ndf 280 / 51
p0 1.045e+04 ± 10.53
10800
10600
10400
10200
10000
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

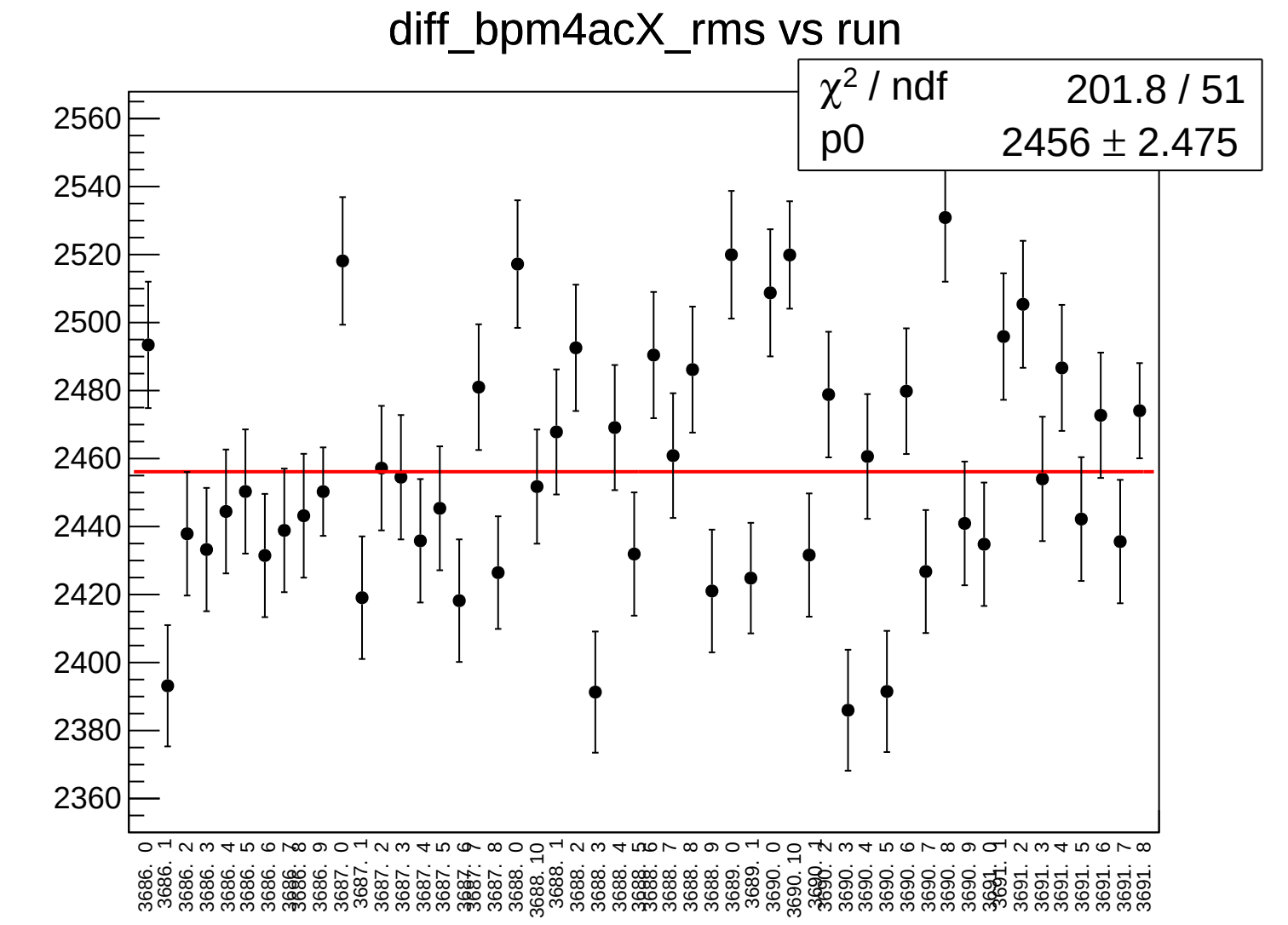

diff_bpm4eY_mean vs run
χ² / ndf 76.23 / 51
p0 −10.39 ± 6.361
150
100
50
0
−50
−100
−150
pull
Entries 52
Mean 102
Std Dev 95.77
2
1
0
−1
−2

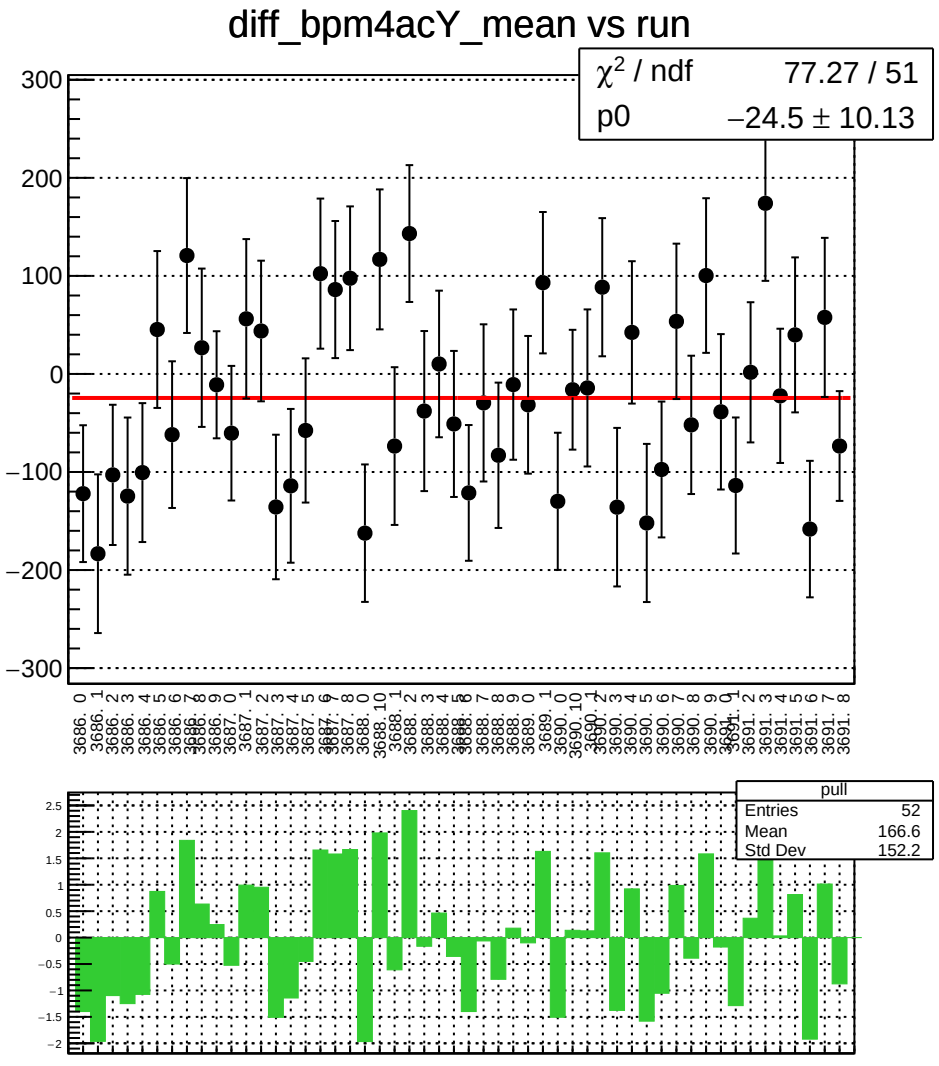

pull1D
Entries 52
Mean 0.01048
Std Dev 1.211
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

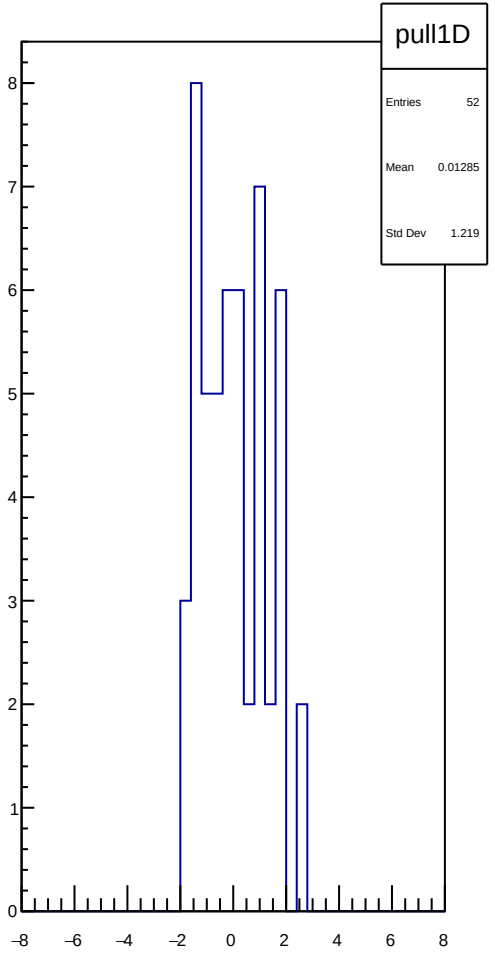

diff_bpm4eY_rms vs run
χ² / ndf 2697 / 51
p0 4458 ± 4.498
4900
4800
4700
4600
4500
4400
4300
4200
4100
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

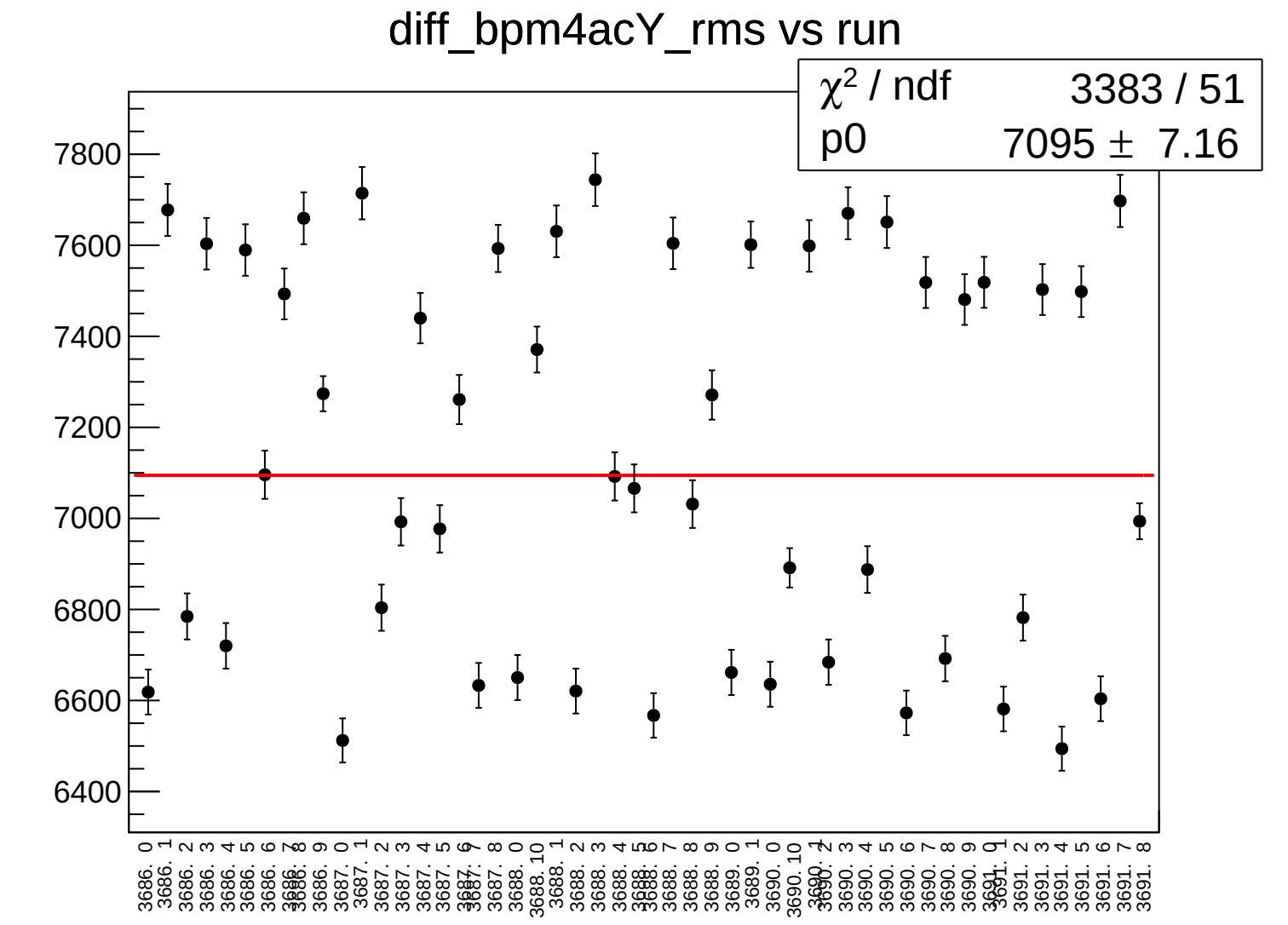

diff_bpm4acX_mean vs run
χ² / ndf 51.17 / 51
p0 −5.532 ± 3.5
pull
Entries 52
Mean 239.4
Std Dev 206.1

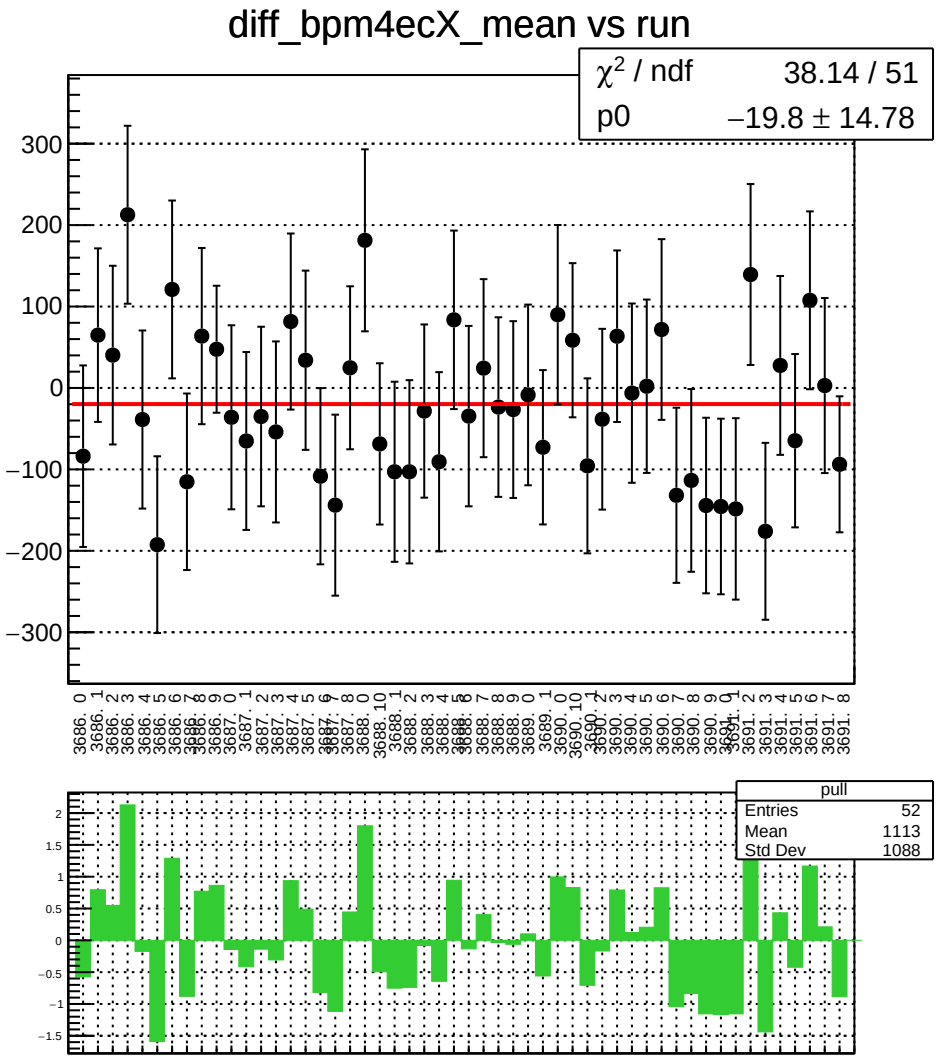

pull1D
Entries 52
Mean −0.007552
Std Dev 0.992

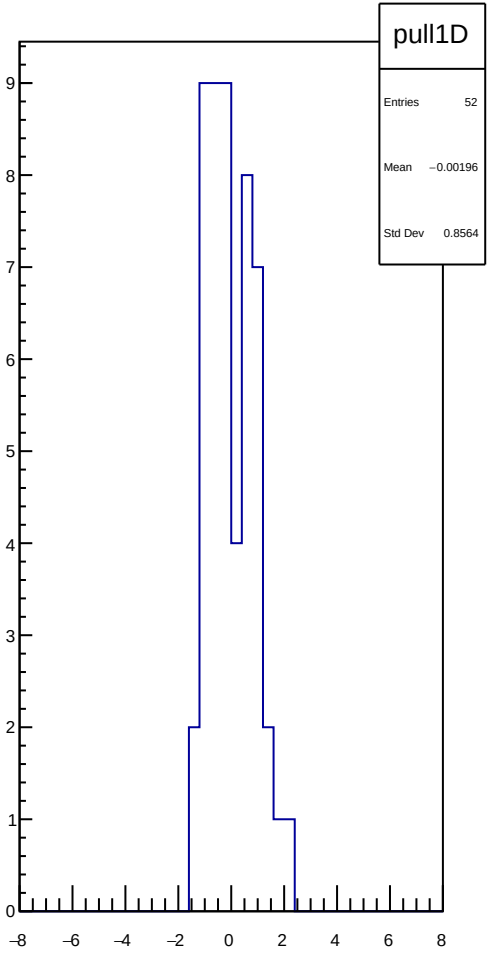

diff_bpm4acX_rms vs run
χ² / ndf 201.8 / 51
p0 2456 ± 2.475
2560
2540
2520
2500
2480
2460
2440
2420
2400
2380
2360
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

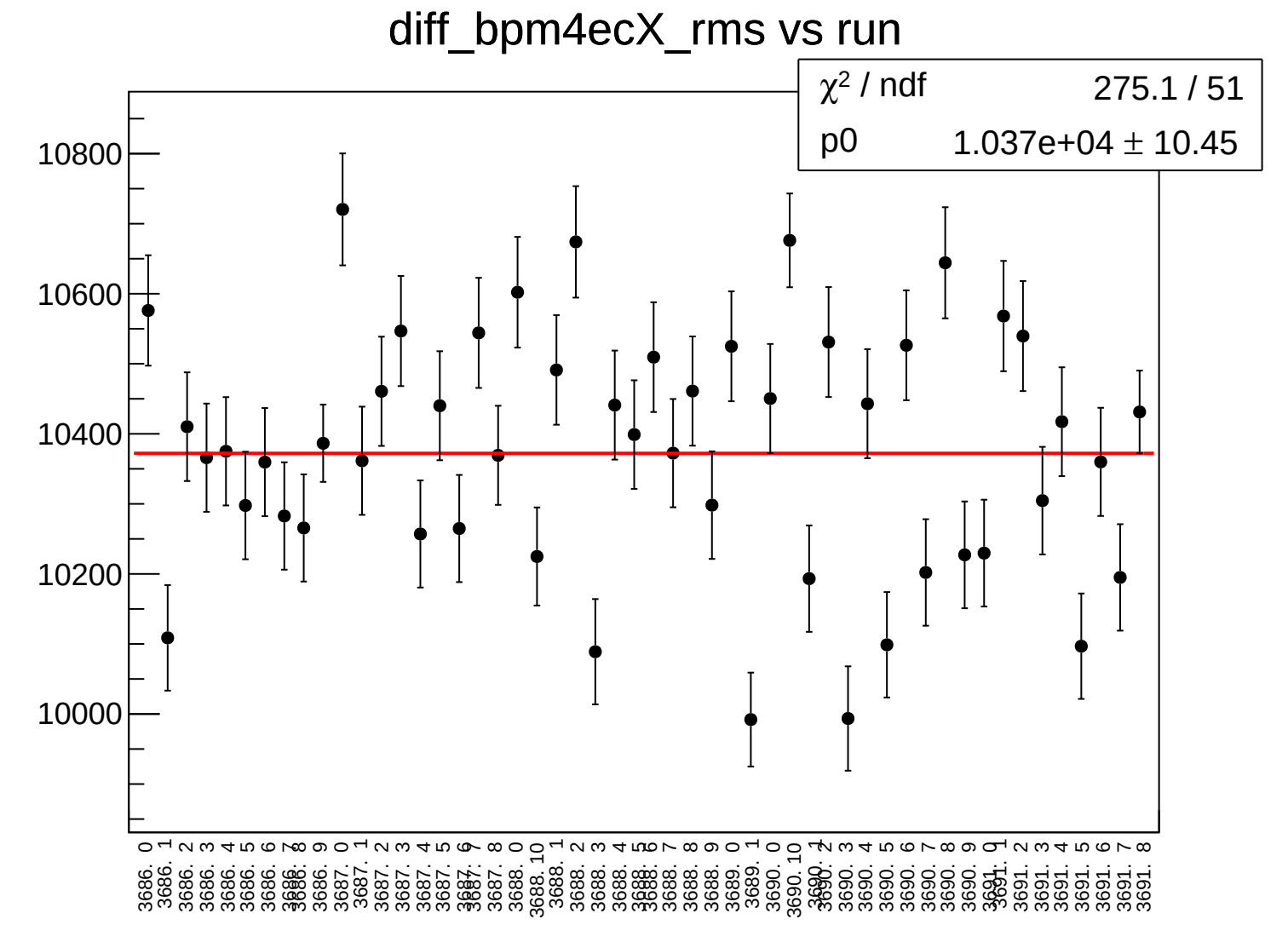

diff_bpm4acY_mean vs run
χ^2 / ndf 77.27 / 51
p0 −24.5 ± 10.13
pull
Entries 52
Mean 166.6
Std Dev 152.2

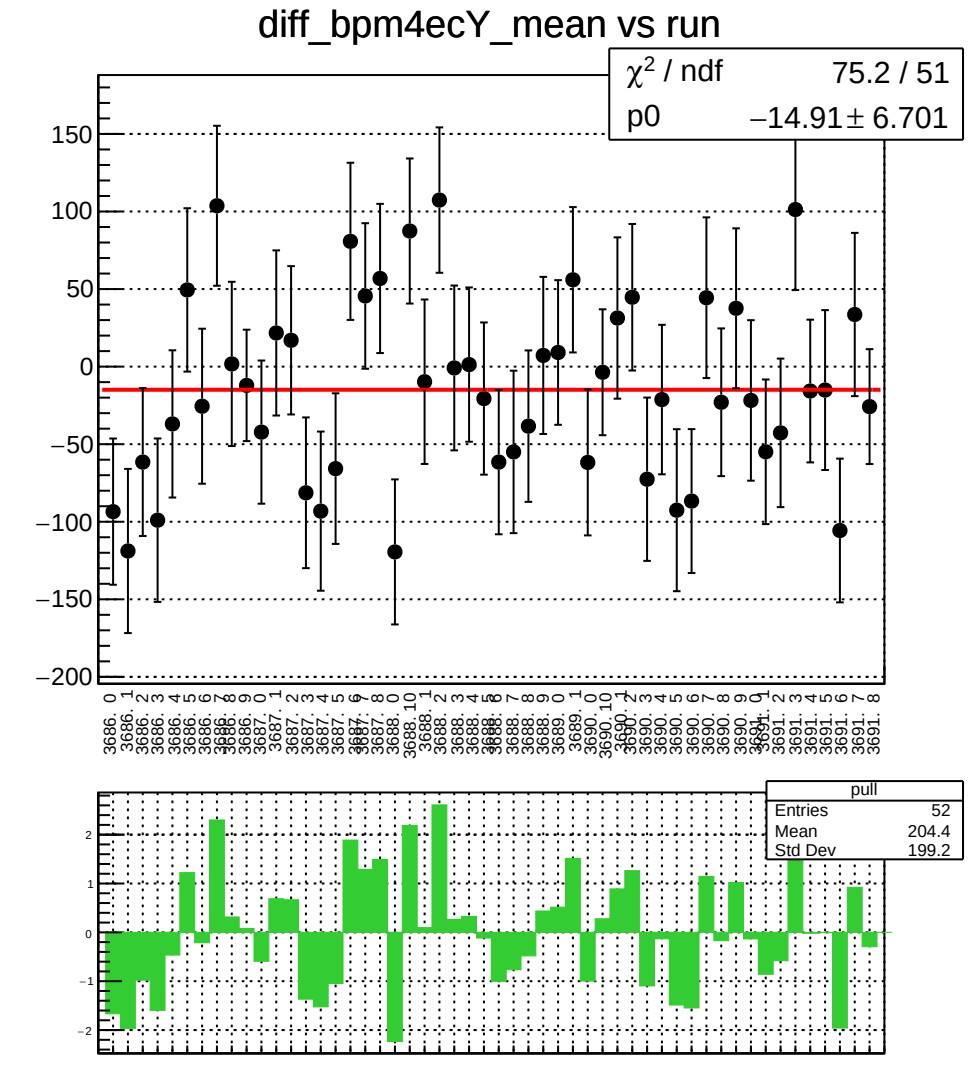

pull1D
Entries 52
Mean 0.01285
Std Dev 1.219

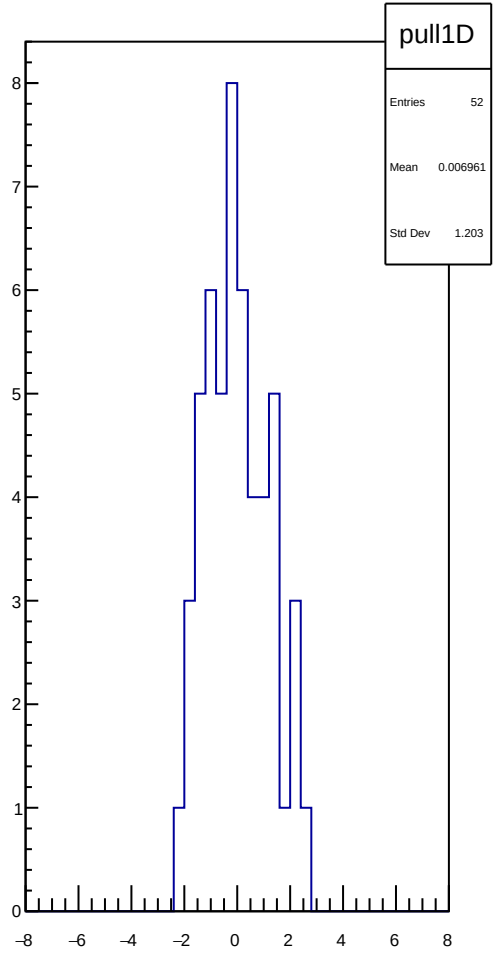

diff_bpm4acY_rms vs run
χ² / ndf 3383 / 51
p0 7095 ± 7.16
7800
7600
7400
7200
7000
6800
6600
6400
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

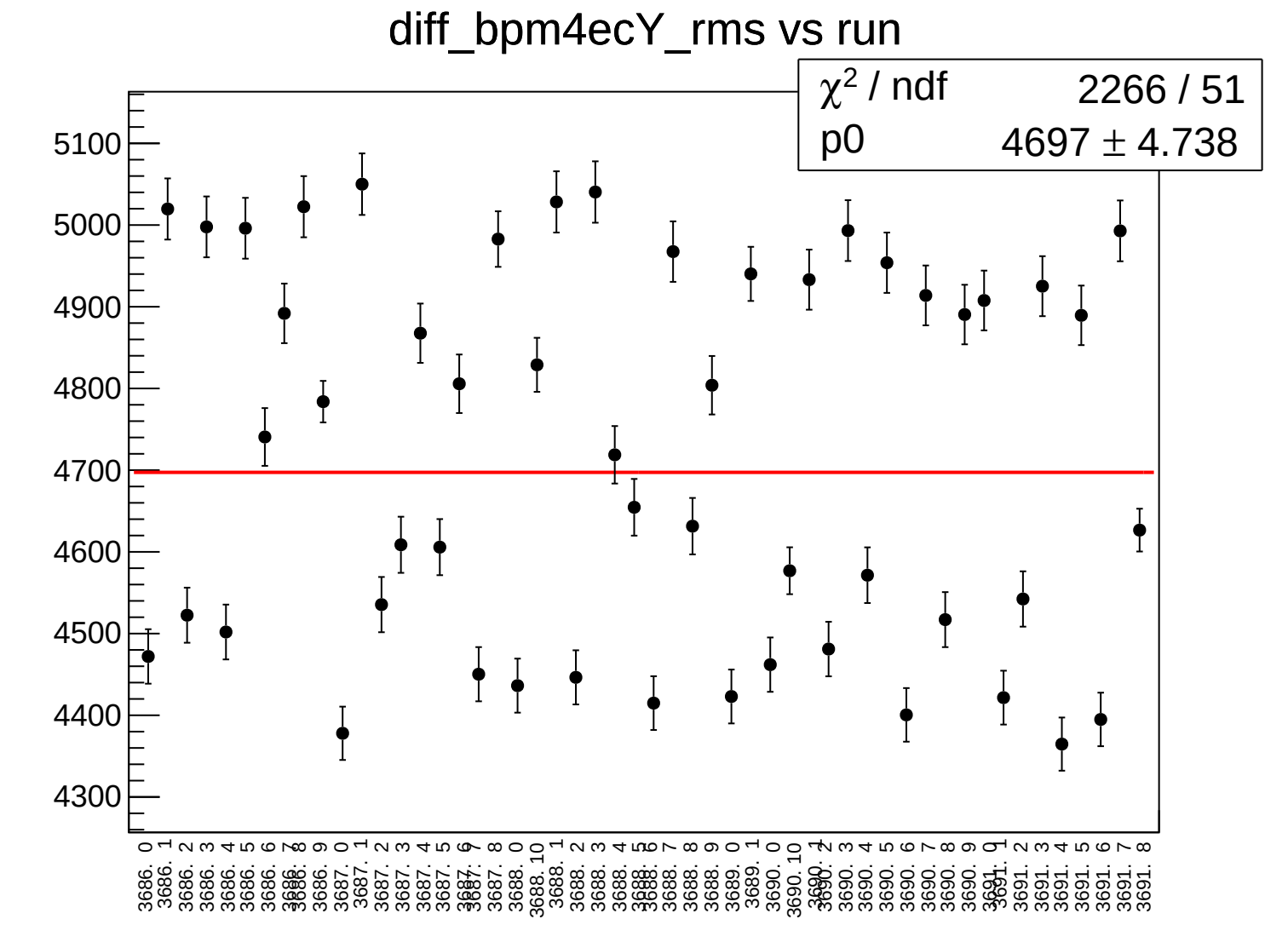

diff_bpm4ecX_mean vs run
χ² / ndf 38.14 / 51
p0 −19.8 ± 14.78
pull
Entries 52
Mean 1113
Std Dev 1088

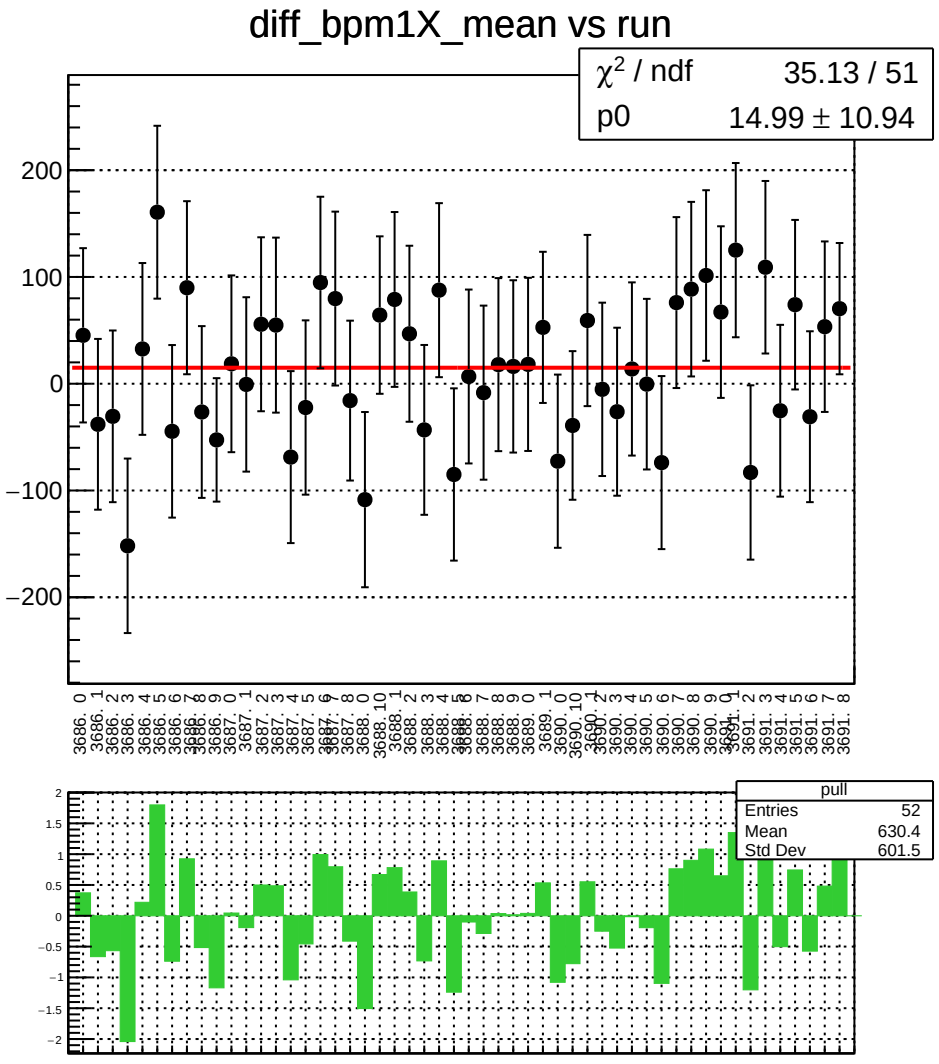

pull1D
Entries 52
Mean −0.00196
Std Dev 0.8564

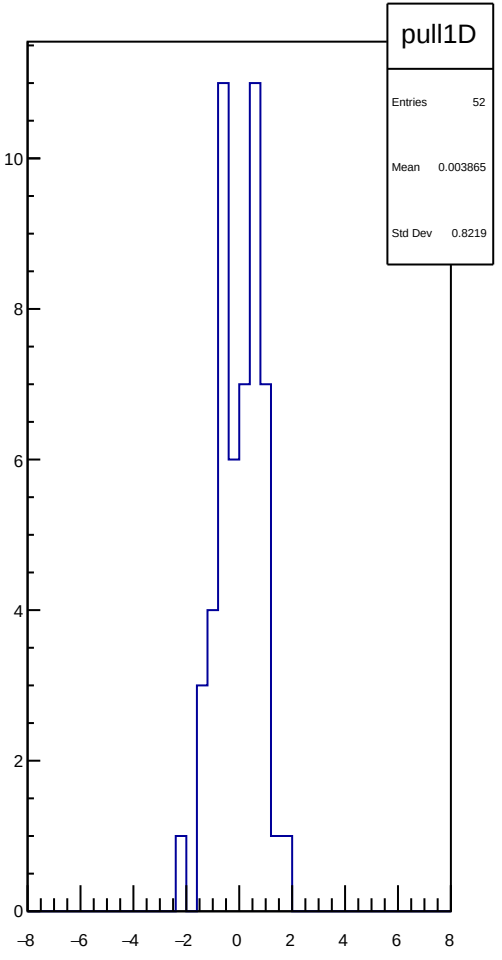

diff_bpm4ecX_rms vs run
χ² / ndf 275.1 / 51
p0 1.037e+04 ± 10.45
10800
10600
10400
10200
10000
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

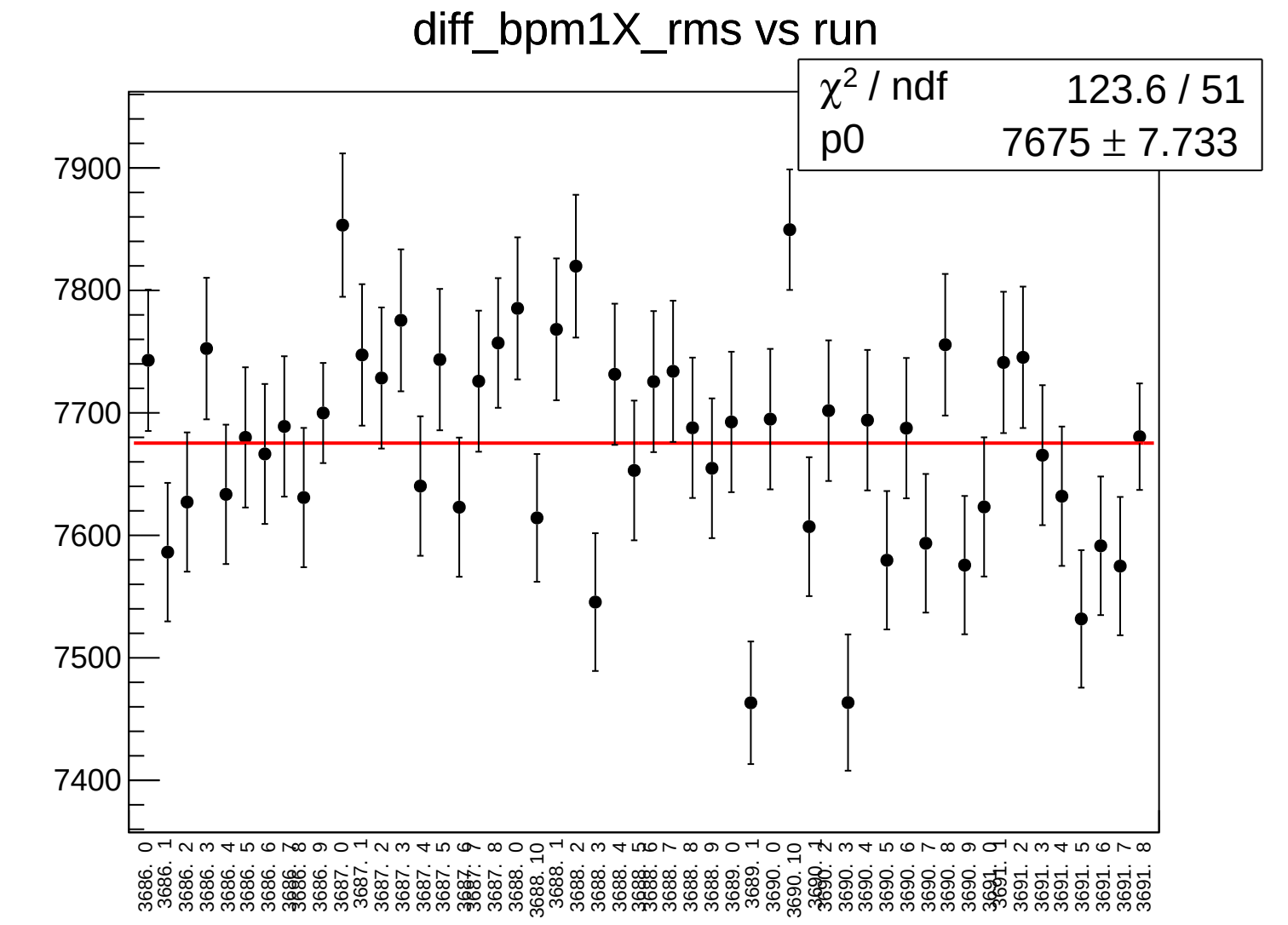

diff_bpm4ecY_mean vs run
χ² / ndf 75.2 / 51
p0 −14.91 ± 6.701
150
100
50
0
−50
−100
−150
−200
pull
Entries 52
Mean 204.4
Std Dev 199.2
2
1
0
−1
−2


pull1D
Entries 52
Mean 0.006961
Std Dev 1.203
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4ecY_rms vs run
χ² / ndf 2266 / 51
p0 4697 ± 4.738
5100
5000
4900
4800
4700
4600
4500
4400
4300
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


diff_bpm1X_mean vs run
χ^2 / ndf 35.13 / 51
p0 14.99 ± 10.94
200
100
0
−100
−200
pull
Entries 52
Mean 630.4
Std Dev 601.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 52
Mean 0.003865
Std Dev 0.8219
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm1X_rms vs run
χ² / ndf 123.6 / 51
p0 7675 ± 7.733
7900
7800
7700
7600
7500
7400
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
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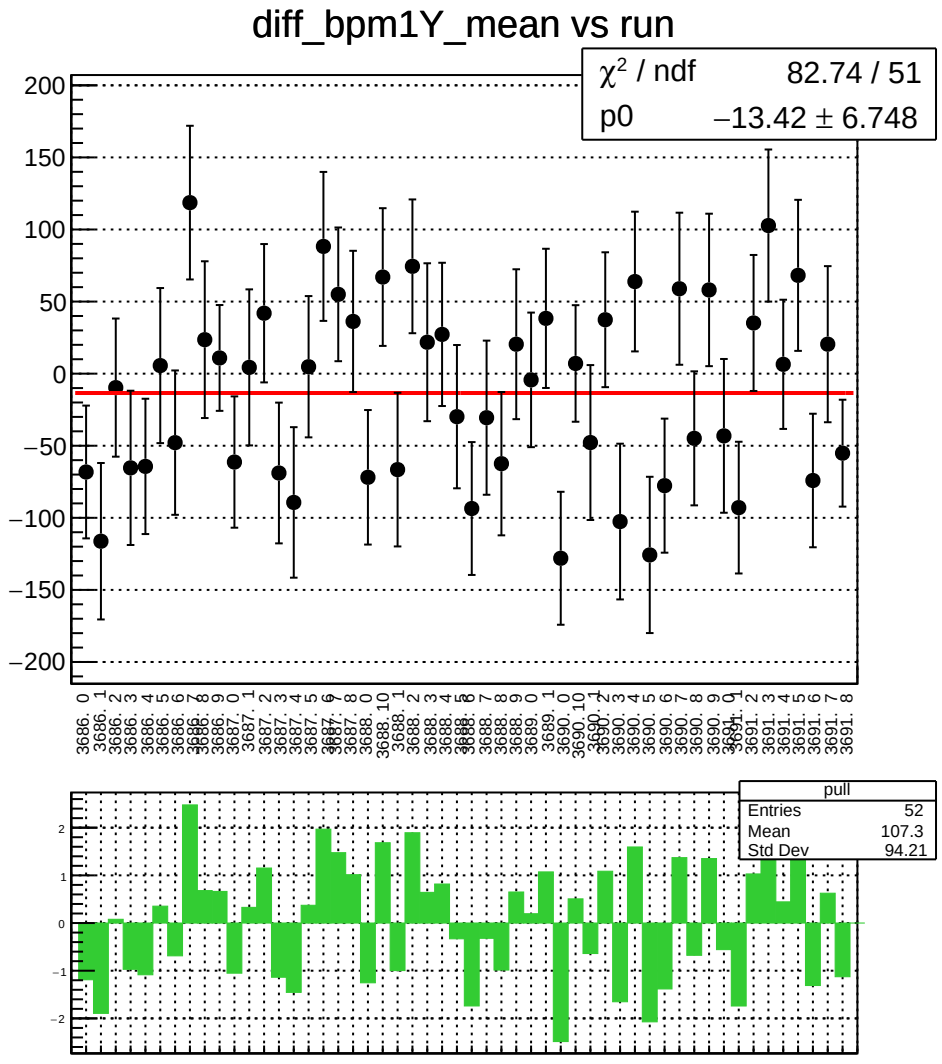
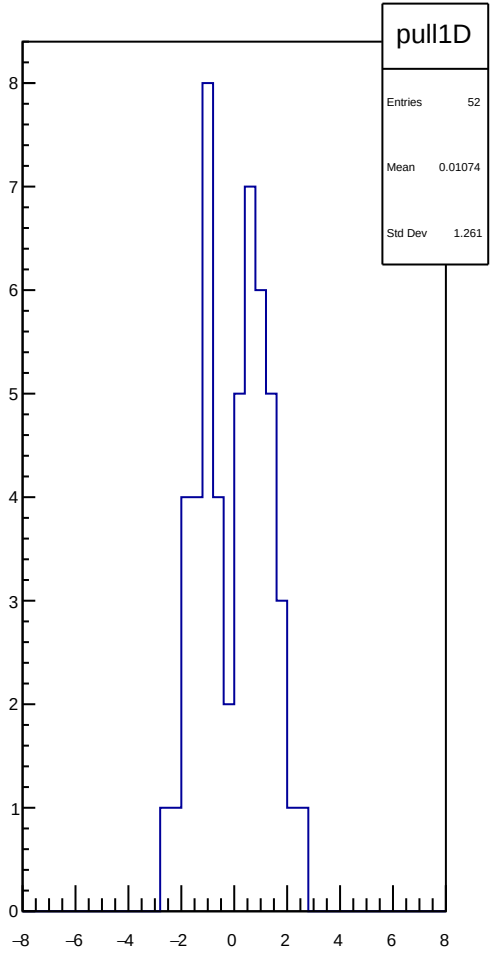
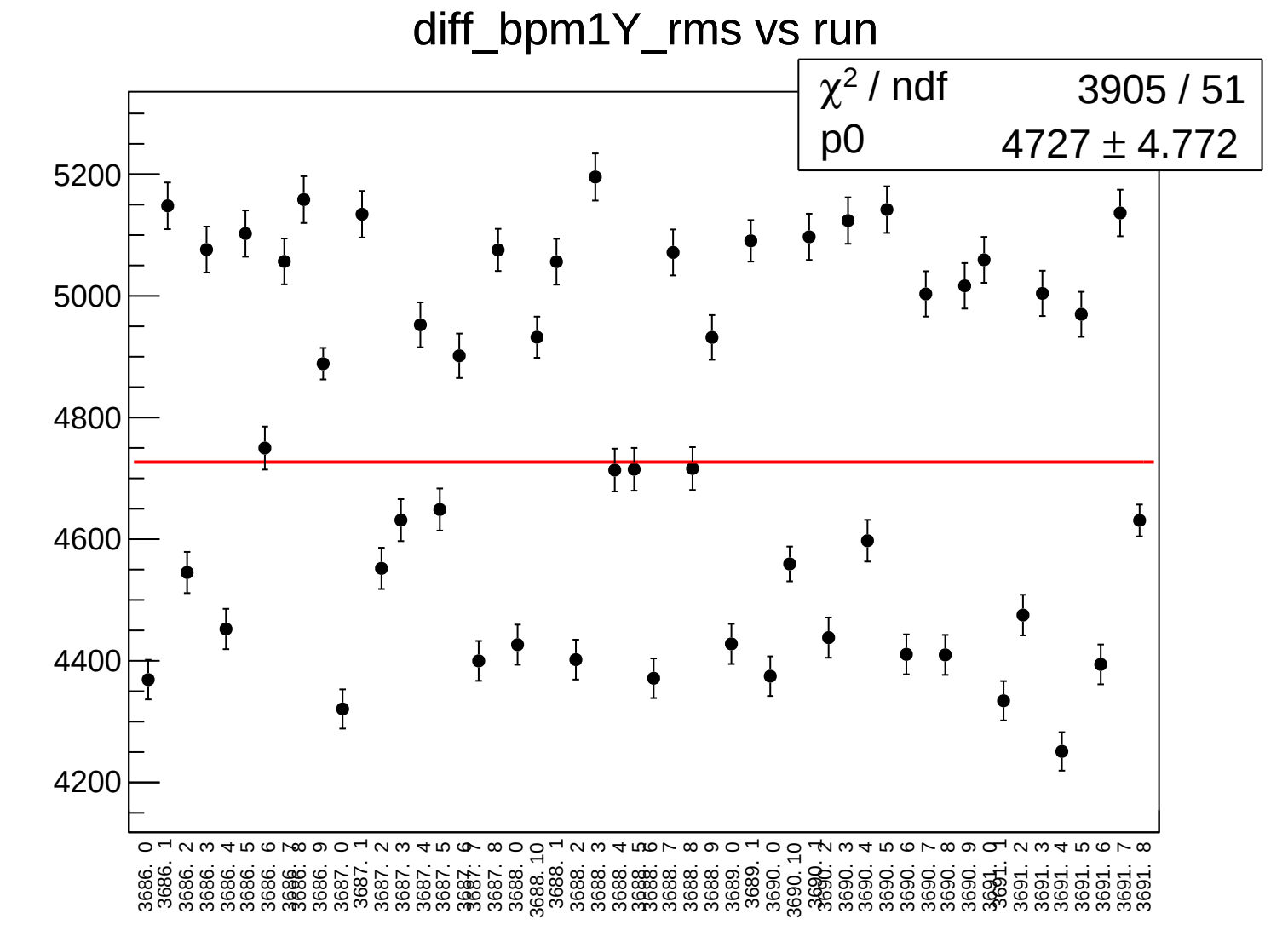
3691. 8


diff_bpm1Y_mean vs run
χ² / ndf 82.74 / 51
p0 −13.42 ± 6.748
pull
Entries 52
Mean 107.3
Std Dev 94.21


pull1D
Entries 52
Mean 0.01074
Std Dev 1.261


diff_bpm1Y_rms vs run
χ² / ndf 3905 / 51
p0 4727 ± 4.772
5200
5000
4800
4600
4400
4200
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
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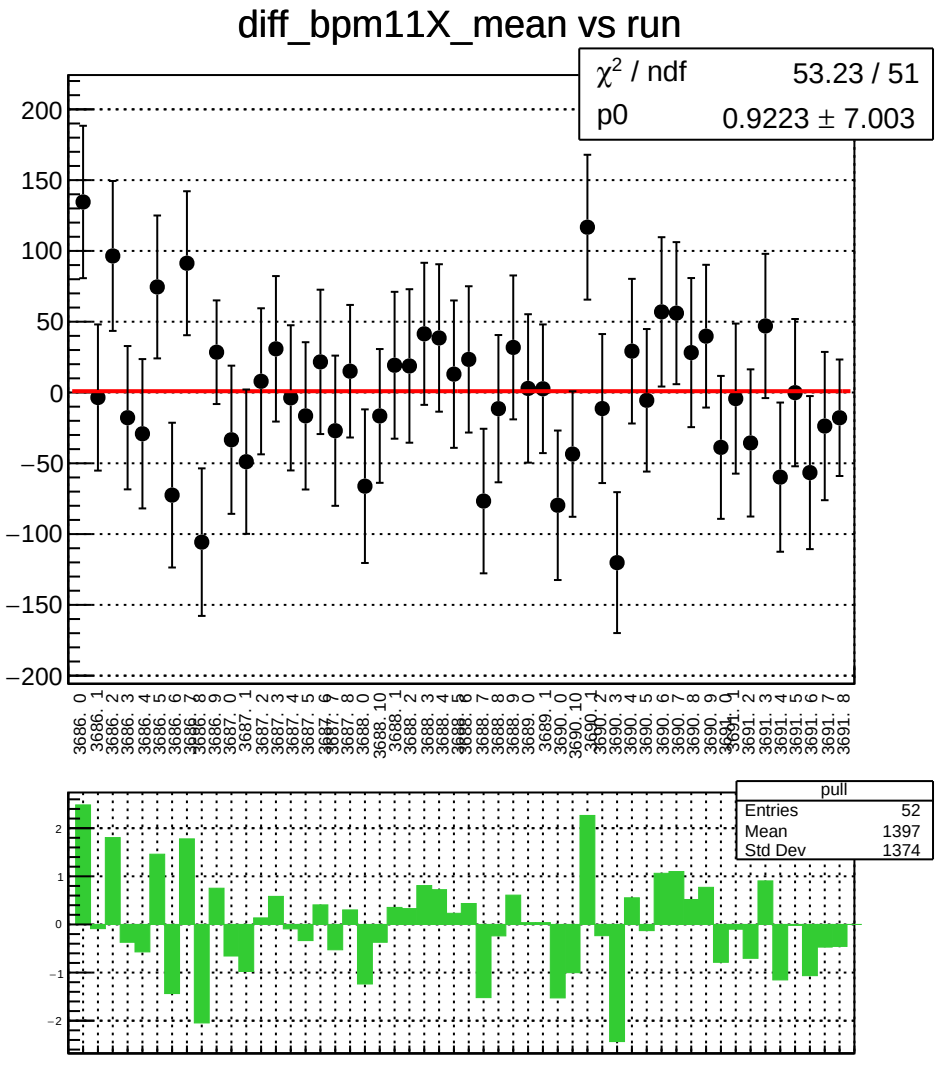
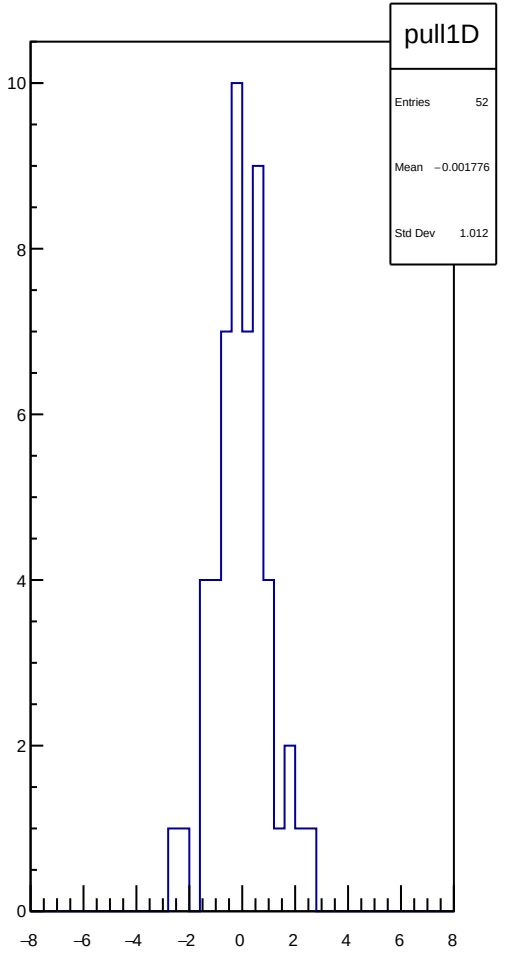
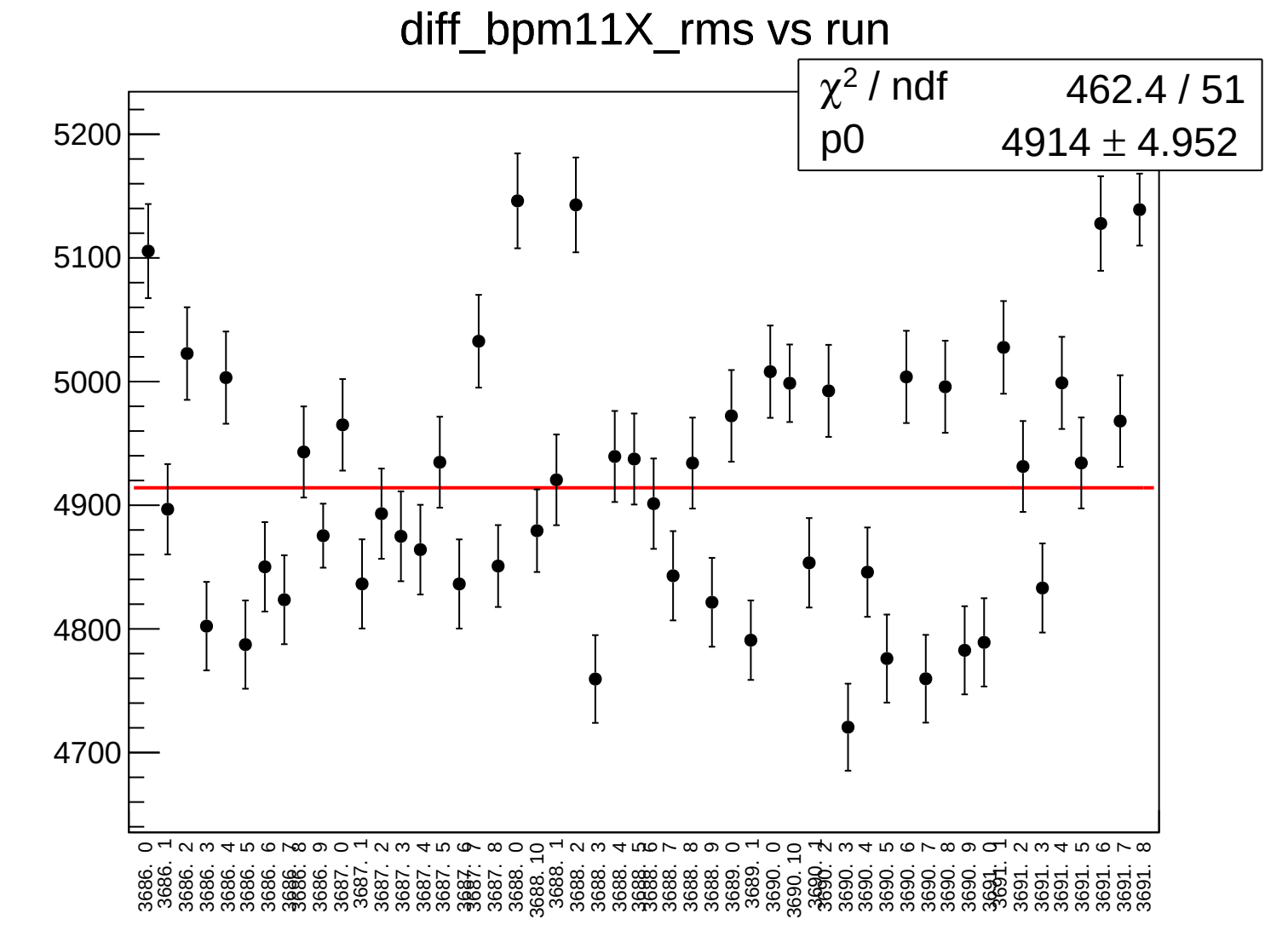
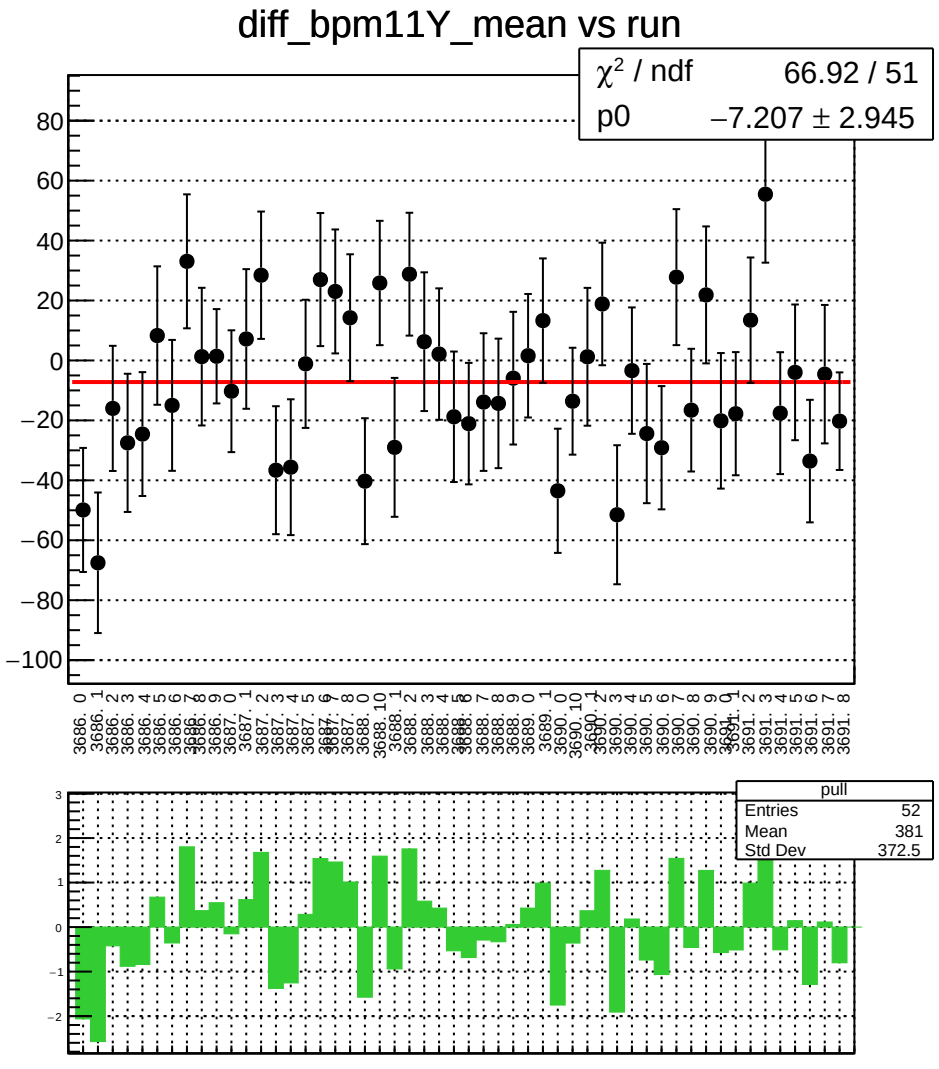
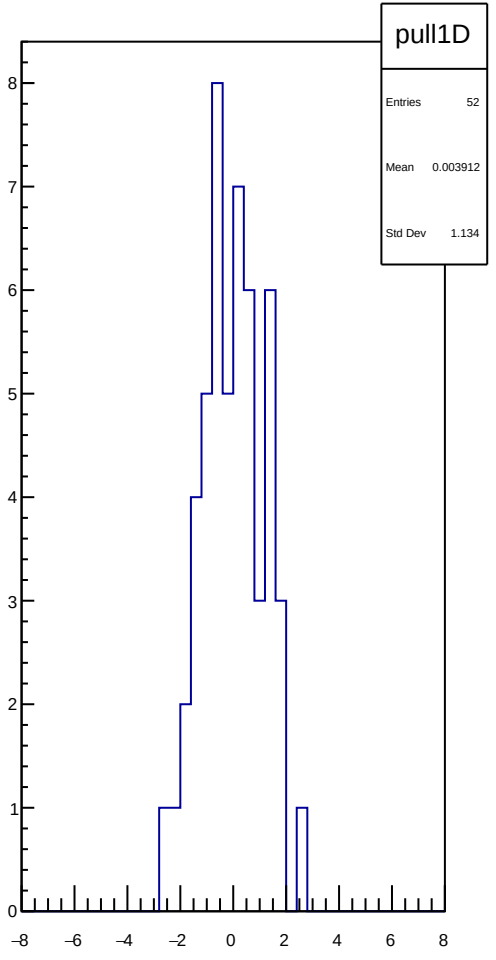
3691. 8

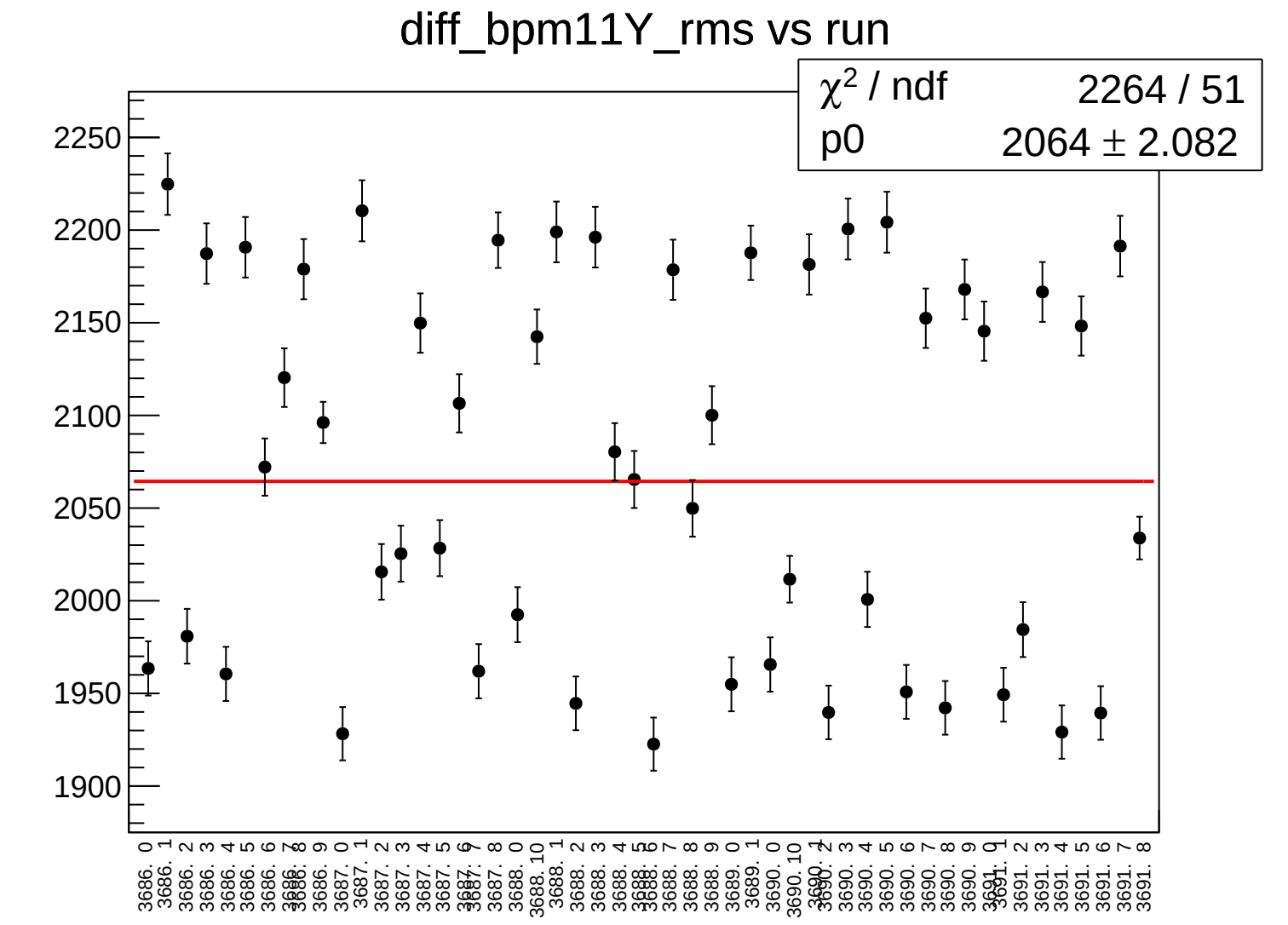

diff_bpm11X_mean vs run
χ² / ndf 53.23 / 51
p0 0.9223 ± 7.003
pull
Entries 52
Mean 1397
Std Dev 1374

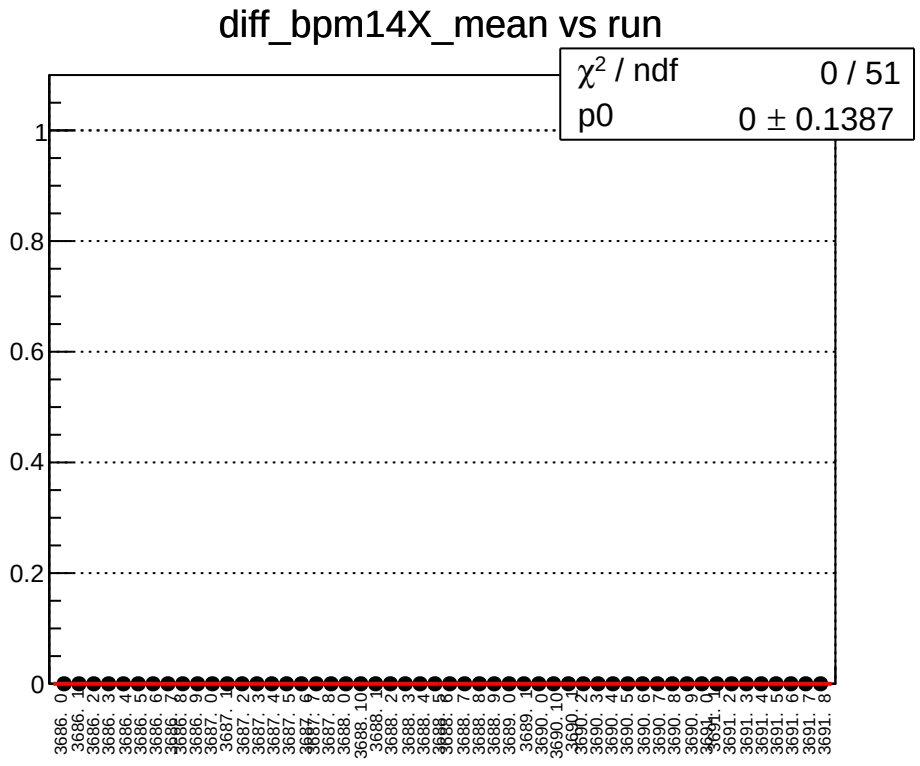

pull1D
Entries 52
Mean −0.001776
Std Dev 1.012

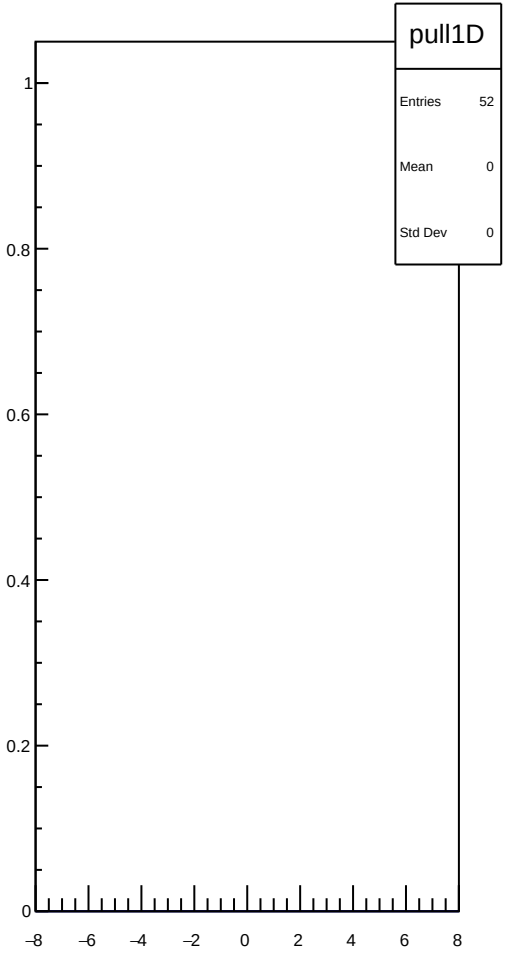

diff_bpm11X_rms vs run
χ² / ndf 462.4 / 51
p0 4914 ± 4.952
5200
5100
5000
4900
4800
4700
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

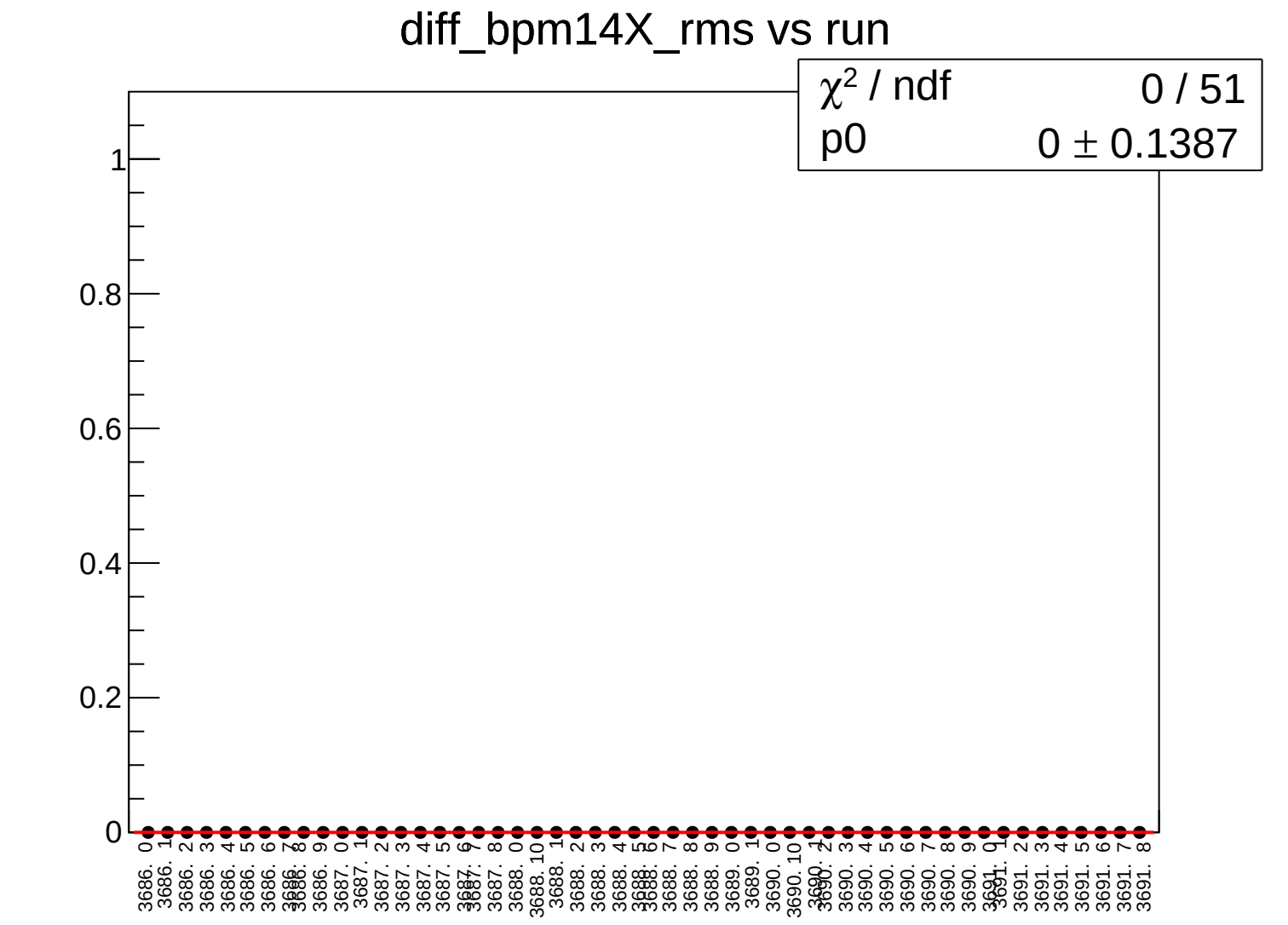

diff_bpm11Y_mean vs run
χ² / ndf 66.92 / 51
p0 −7.207 ± 2.945
pull
Entries 52
Mean 381
Std Dev 372.5

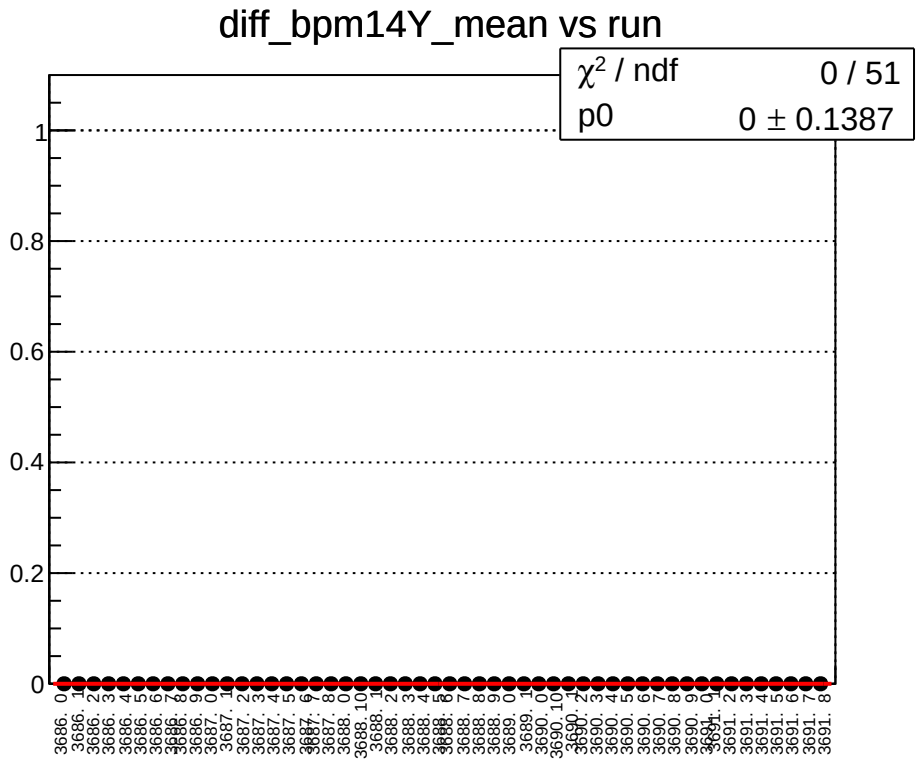

pull1D
Entries 52
Mean 0.003912
Std Dev 1.134

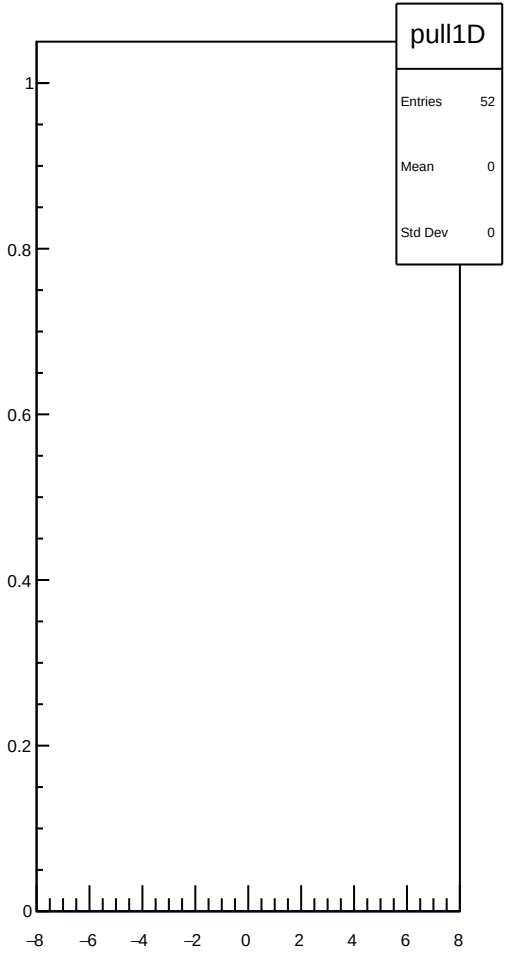

diff_bpm11Y_rms vs run
χ² / ndf 2264 / 51
p0 2064 ± 2.082
2250
2200
2150
2100
2050
2000
1950
1900
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

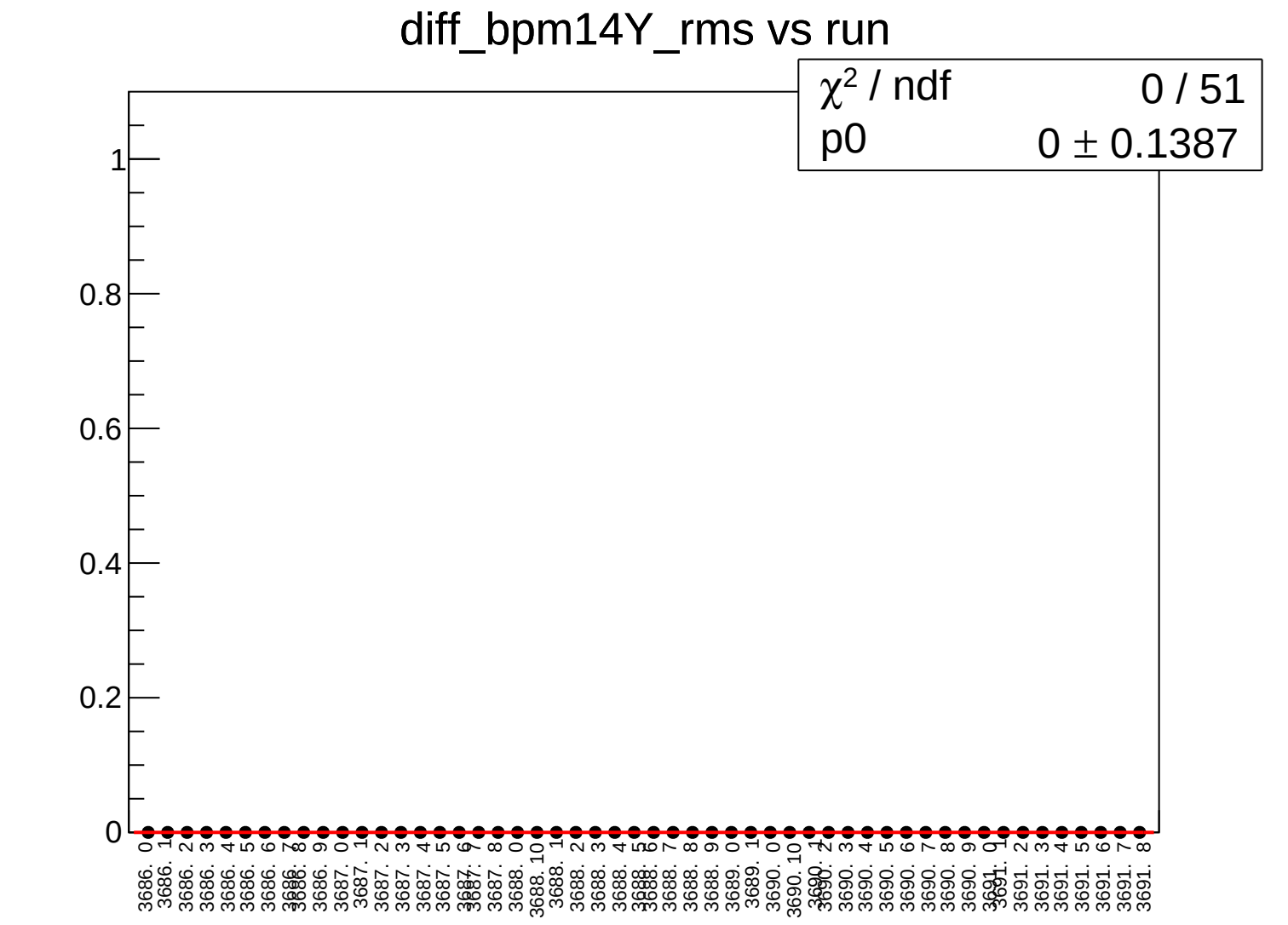

diff_bpm14X_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

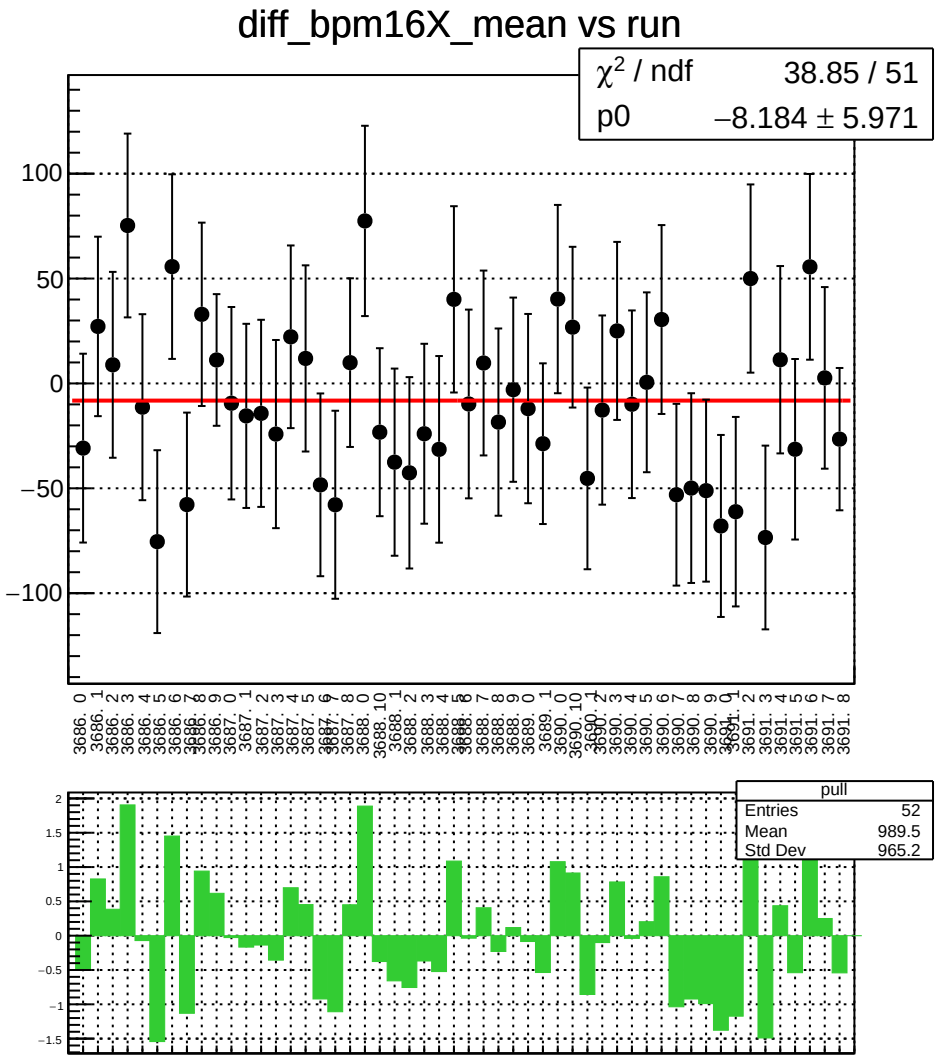

pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

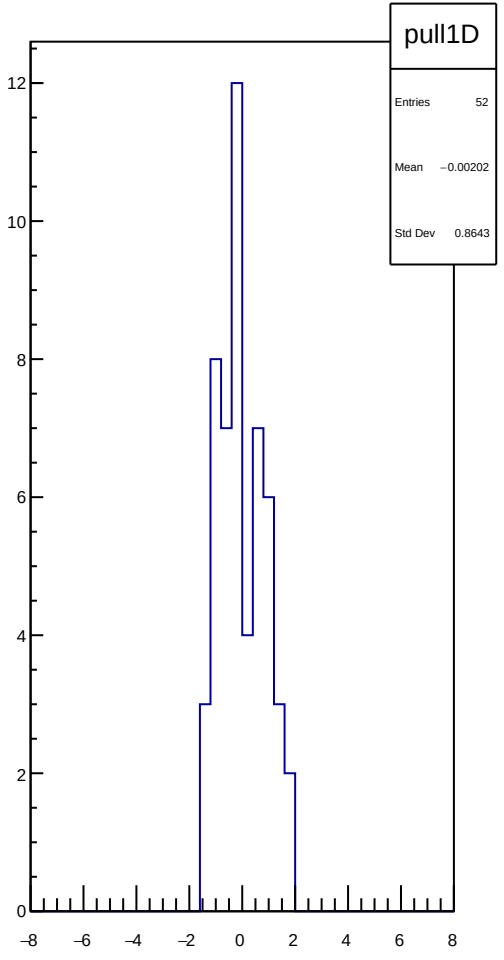

diff_bpm14X_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

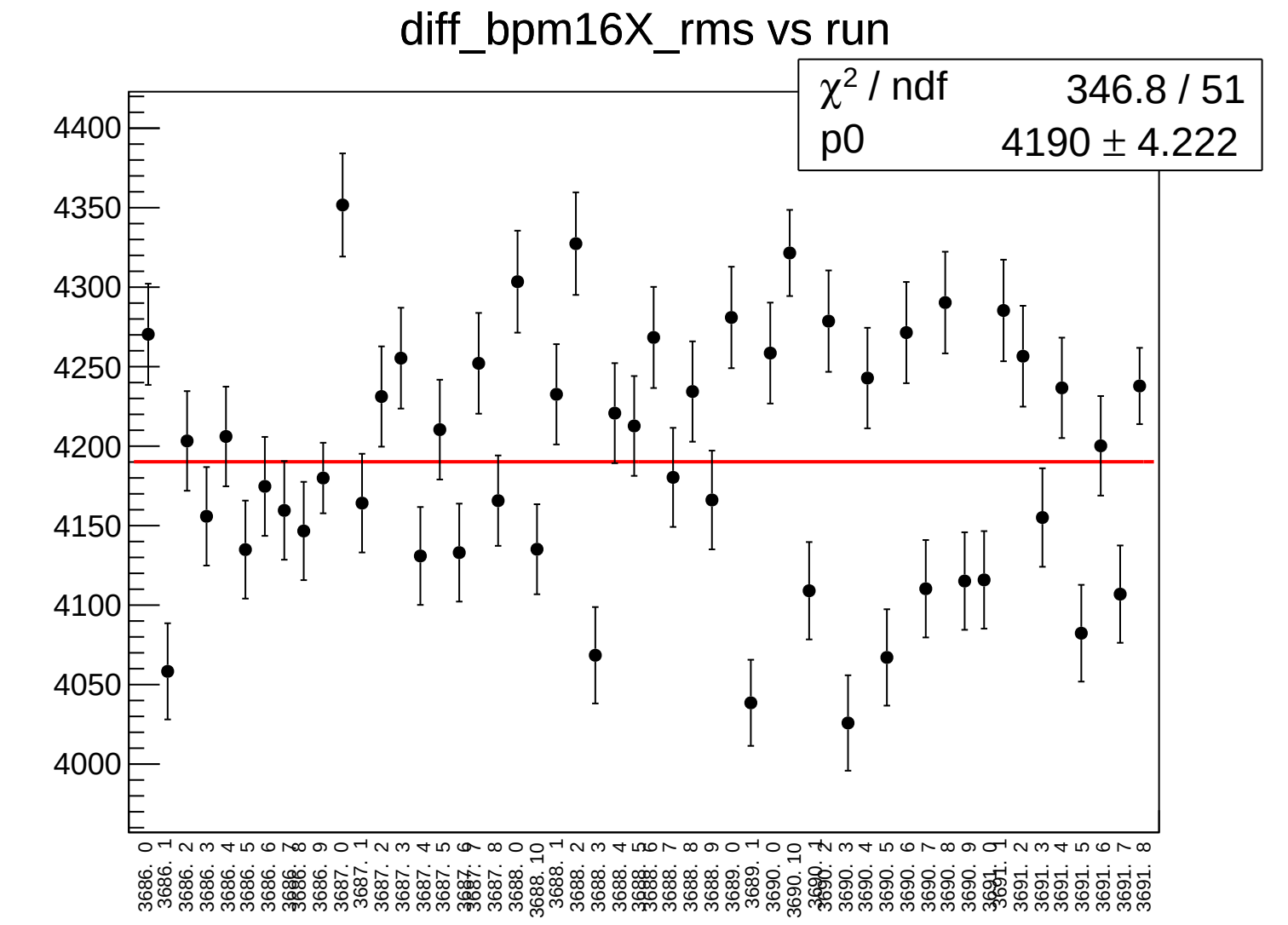

diff_bpm14Y_mean vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

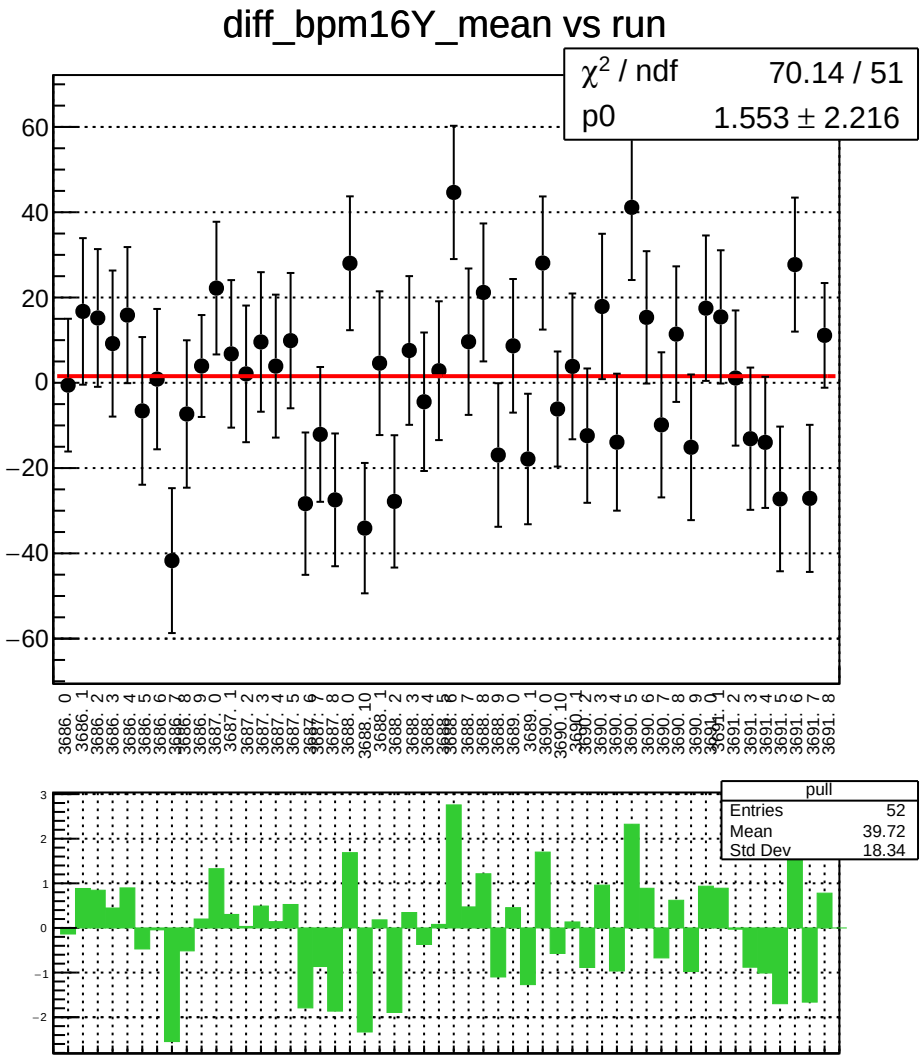

pull1D
Entries 52
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

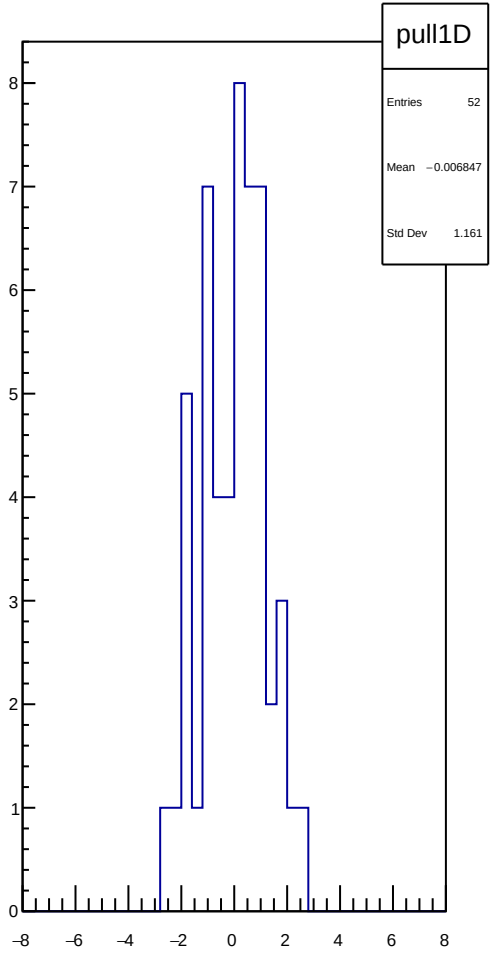

diff_bpm14Y_rms vs run
χ² / ndf 0 / 51
p0 0 ± 0.1387
1
0.8
0.6
0.4
0.2
0

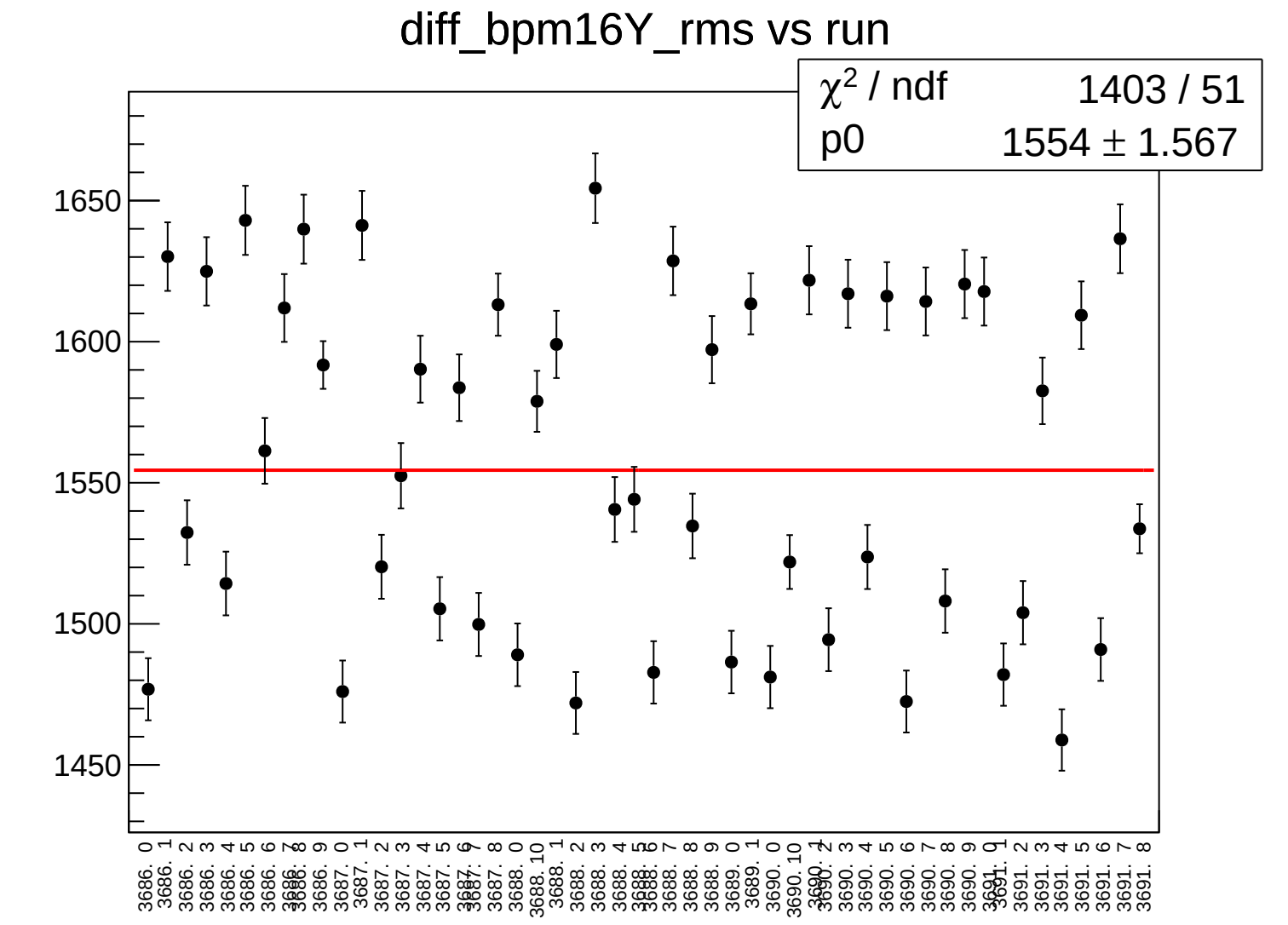

diff_bpm16X_mean vs run
χ^2 / ndf 38.85 / 51
p0 −8.184 ± 5.971
100
50
0
−50
−100
pull
Entries 52
Mean 989.5
Std Dev 965.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

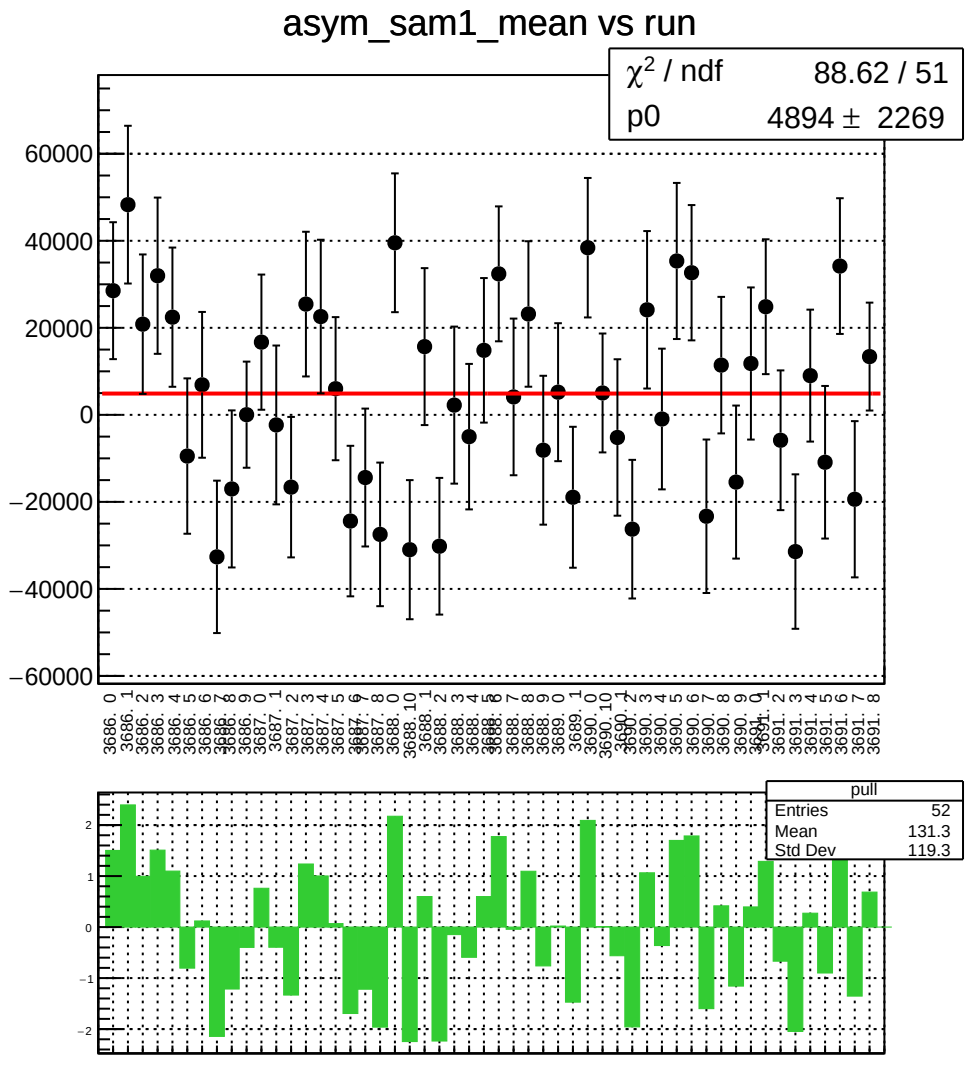

pull1D
Entries 52
Mean −0.00202
Std Dev 0.8643
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

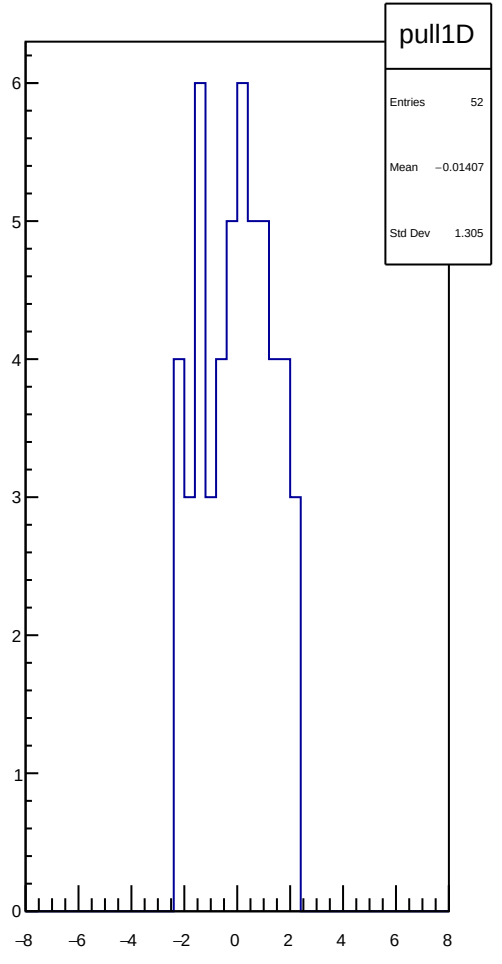

diff_bpm16X_rms vs run
χ² / ndf 346.8 / 51
p0 4190 ± 4.222
4400
4350
4300
4250
4200
4150
4100
4050
4000
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

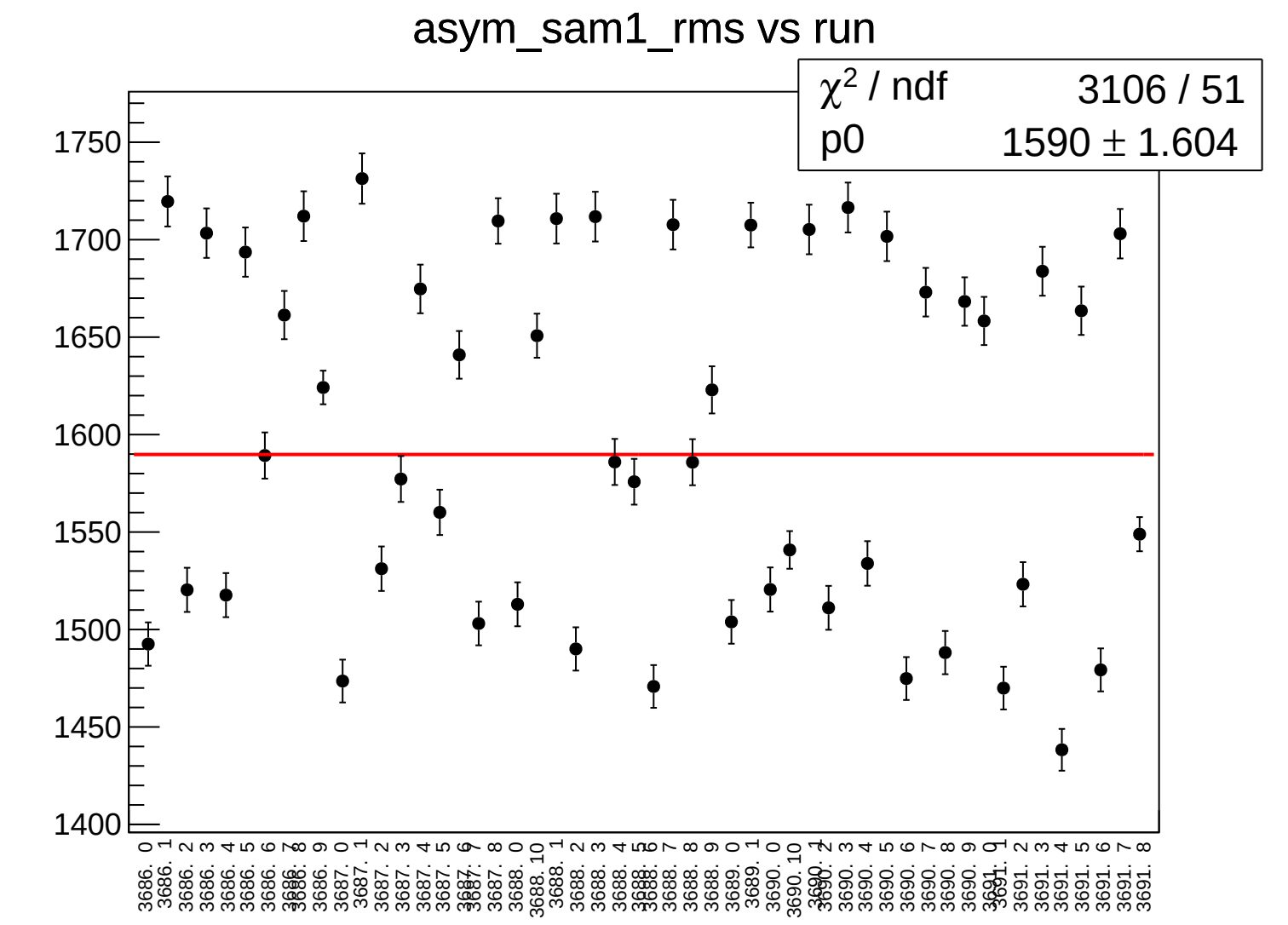

diff_bpm16Y_mean vs run
χ^2 / ndf 70.14 / 51
p0 1.553 ± 2.216
pull
Entries 52
Mean 39.72
Std Dev 18.34

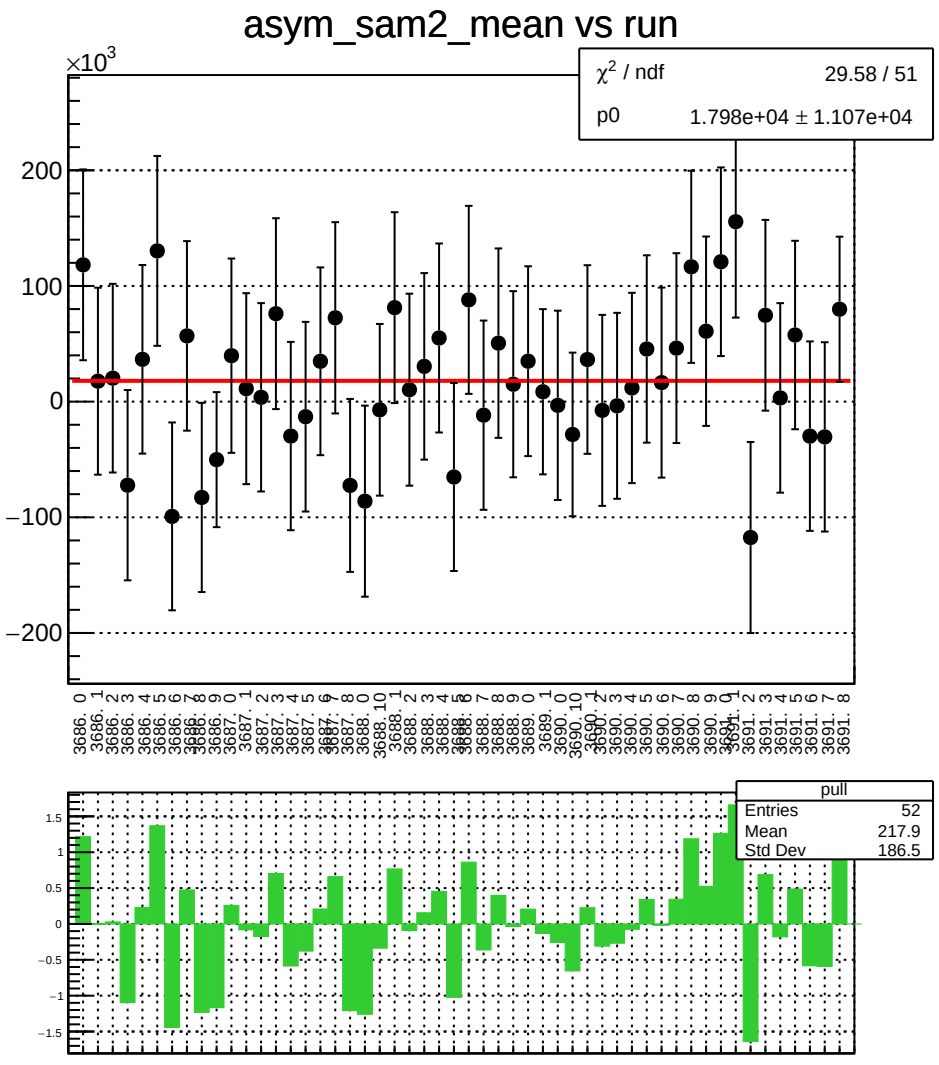

pull1D
Entries 52
Mean −0.006847
Std Dev 1.161

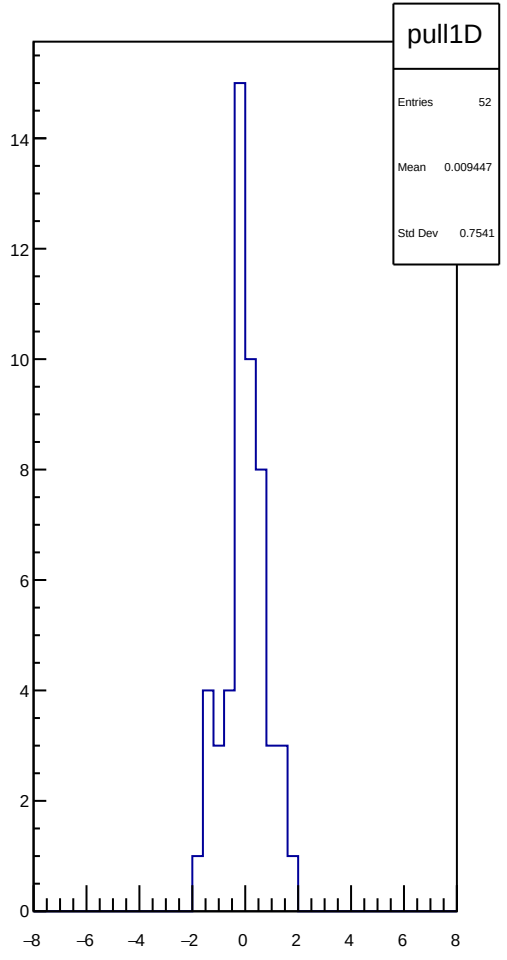

diff_bpm16Y_rms vs run
χ² / ndf 1403 / 51
p0 1554 ± 1.567
1650
1600
1550
1500
1450
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

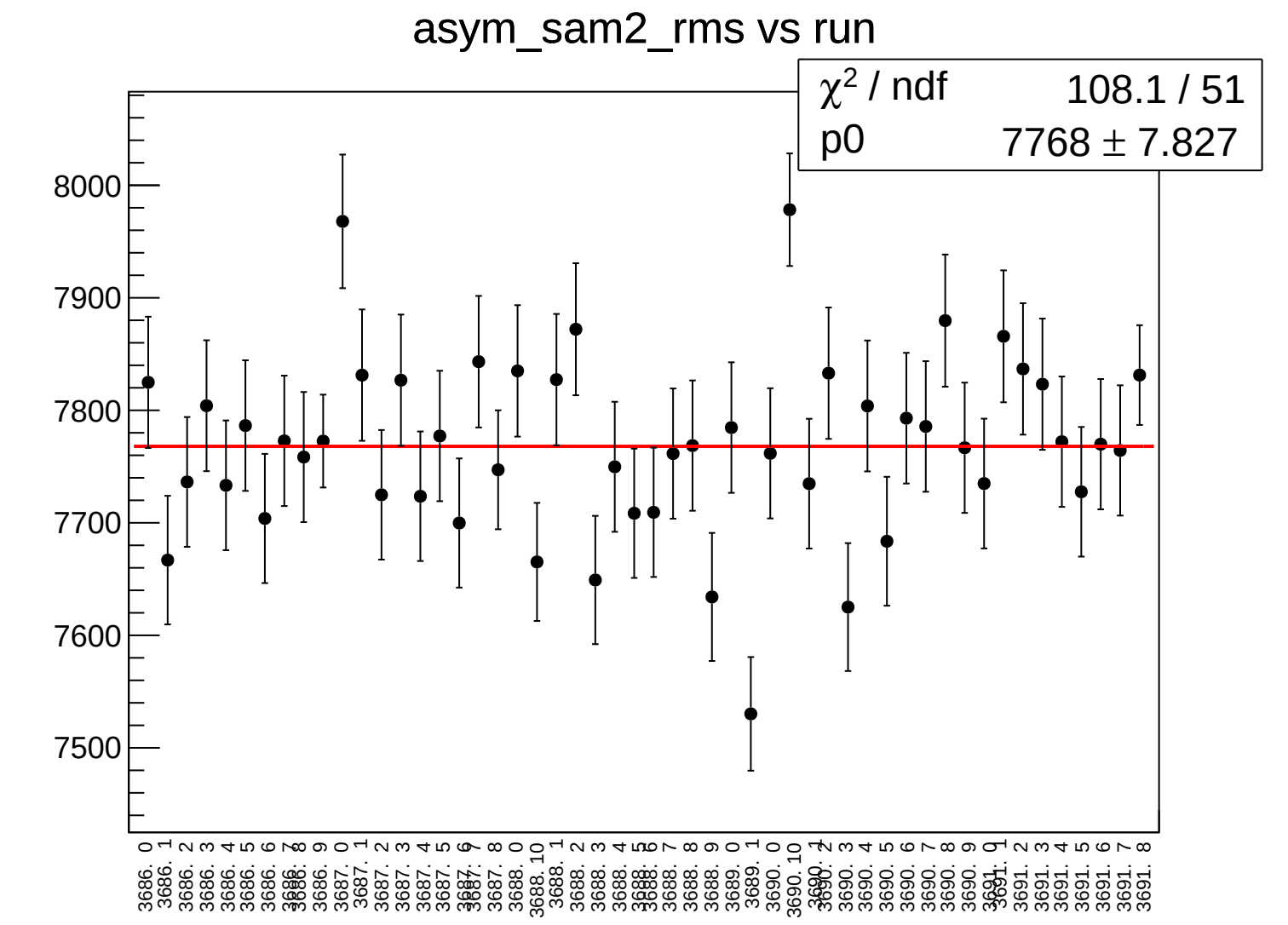

asym_sam1_mean vs run
χ² / ndf 88.62 / 51
p0 4894 ± 2269
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 52
Mean 131.3
Std Dev 119.3
2
1
0
−1
−2

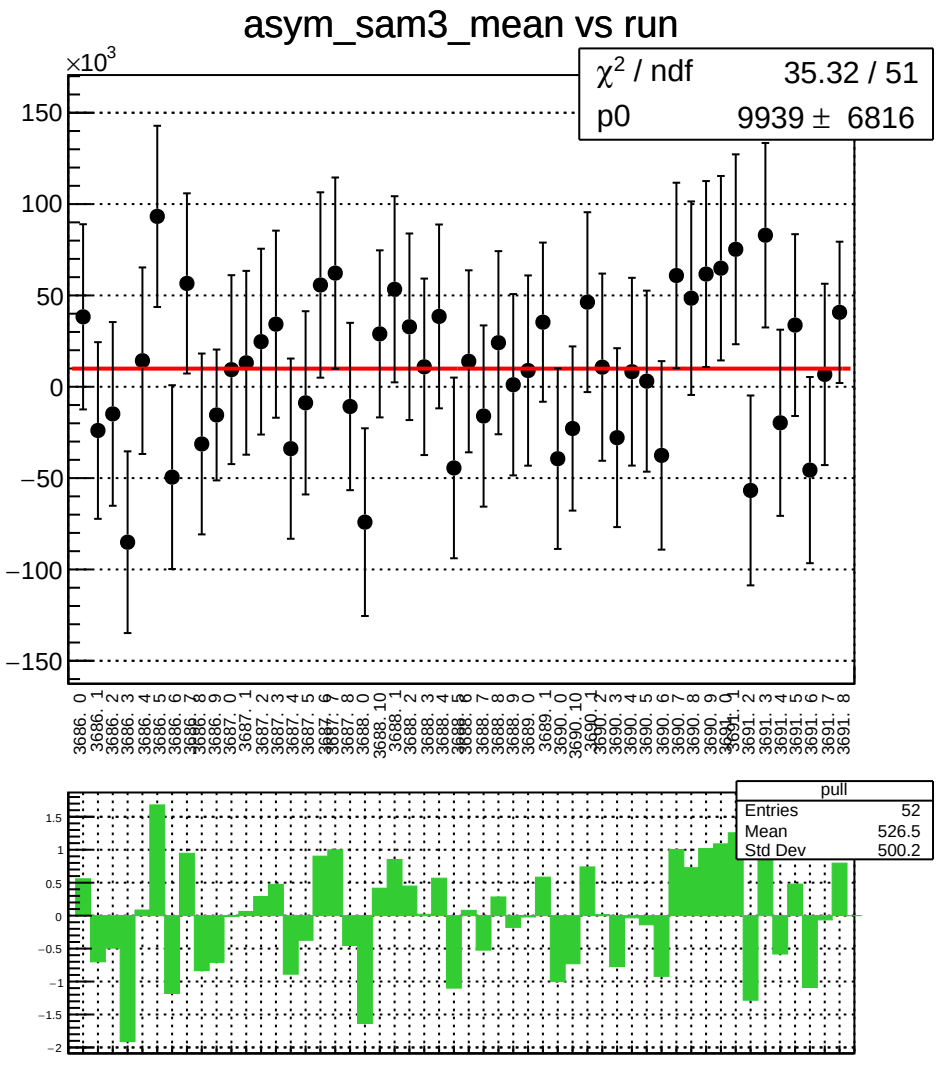

pull1D
Entries 52
Mean −0.01407
Std Dev 1.305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

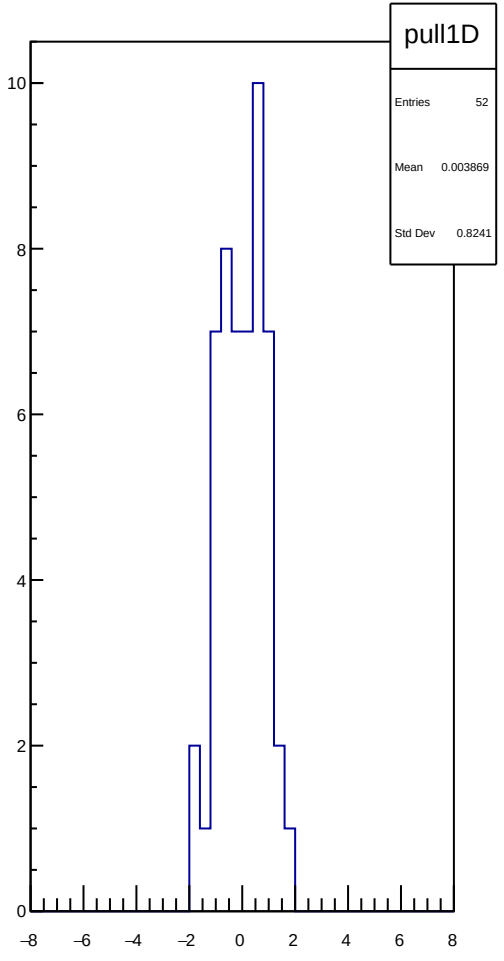

asym_sam1_rms vs run
χ² / ndf 3106 / 51
p0 1590 ± 1.604
1750
1700
1650
1600
1550
1500
1450
1400
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

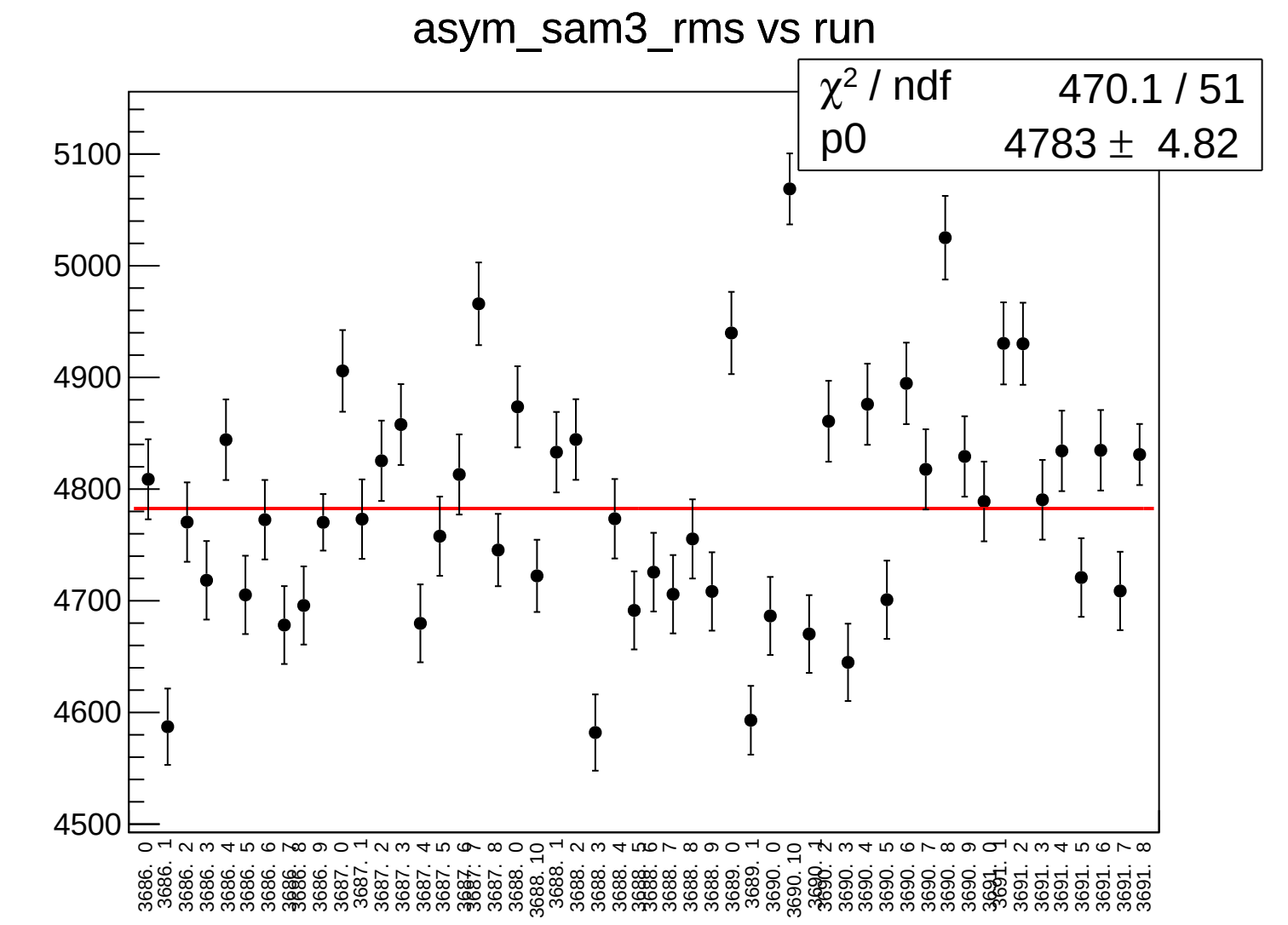

asym_sam2_mean vs run
×10^3
χ² / ndf 29.58 / 51
p0 1.798e+04 ± 1.107e+04
200
100
0
−100
−200
pull
Entries 52
Mean 217.9
Std Dev 186.5
1.5
1
0.5
0
−0.5
−1
−1.5

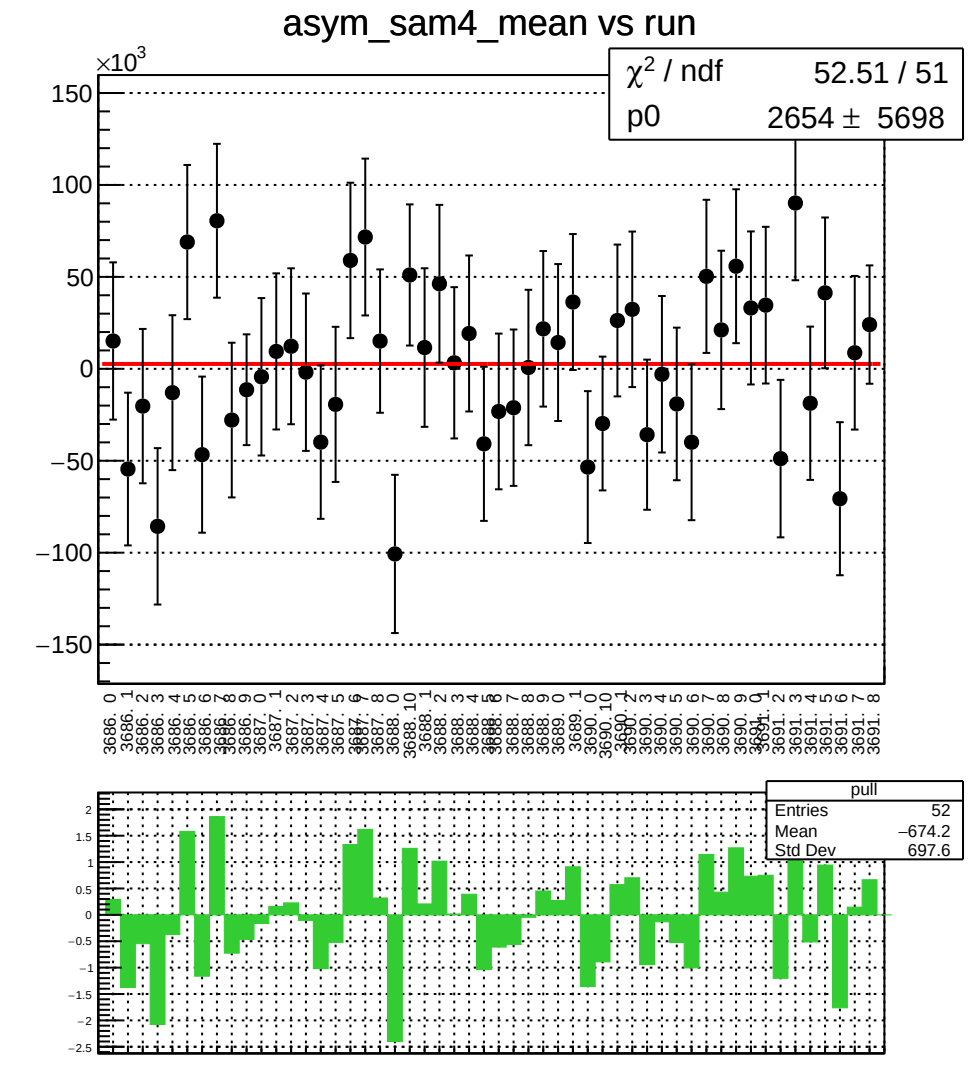

pull1D
Entries 52
Mean 0.009447
Std Dev 0.7541
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

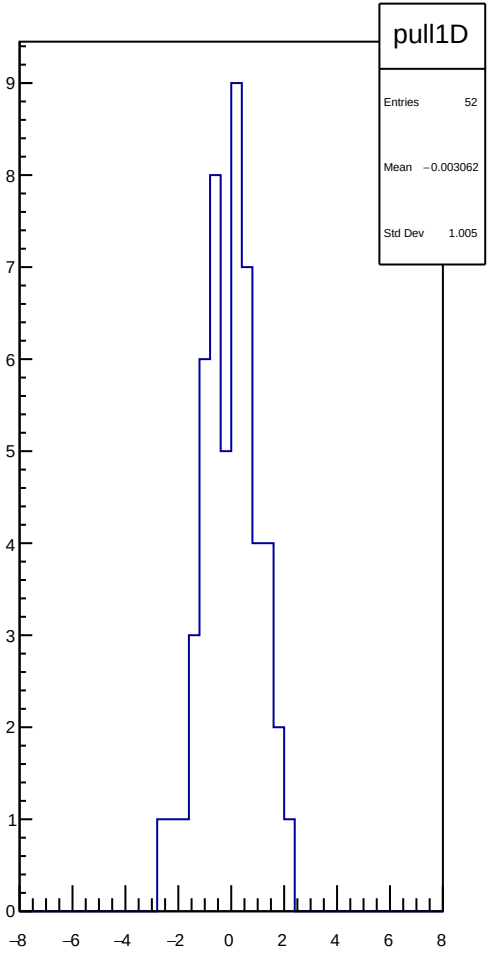

asym_sam2_rms vs run
χ^2 / ndf 108.1 / 51
p0 7768 ± 7.827
8000
7900
7800
7700
7600
7500
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

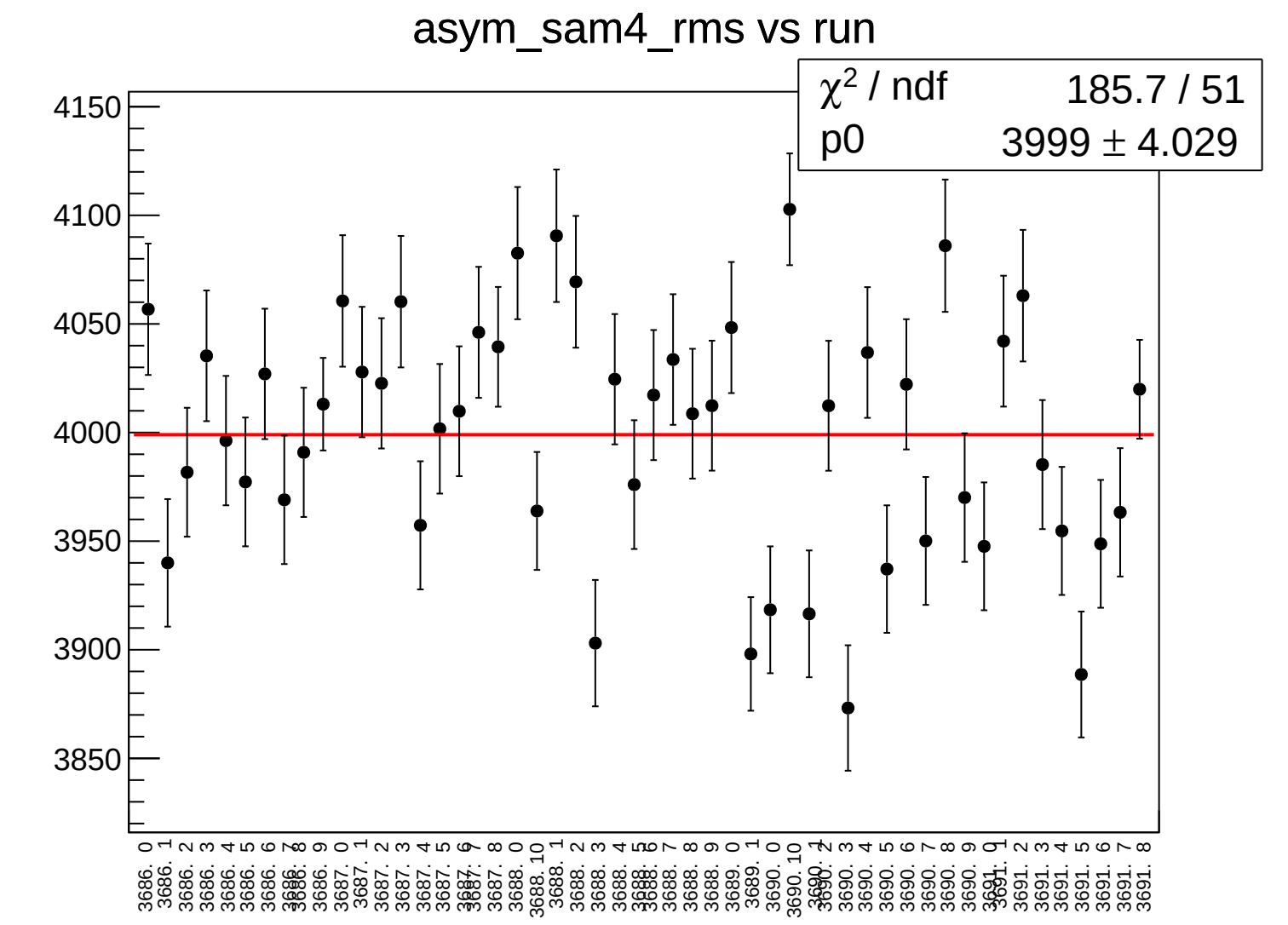

asym_sam3_mean vs run
×10^3
χ² / ndf 35.32 / 51
p0 9939 ± 6816
150
100
50
0
−50
−100
−150
pull
Entries 52
Mean 526.5
Std Dev 500.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

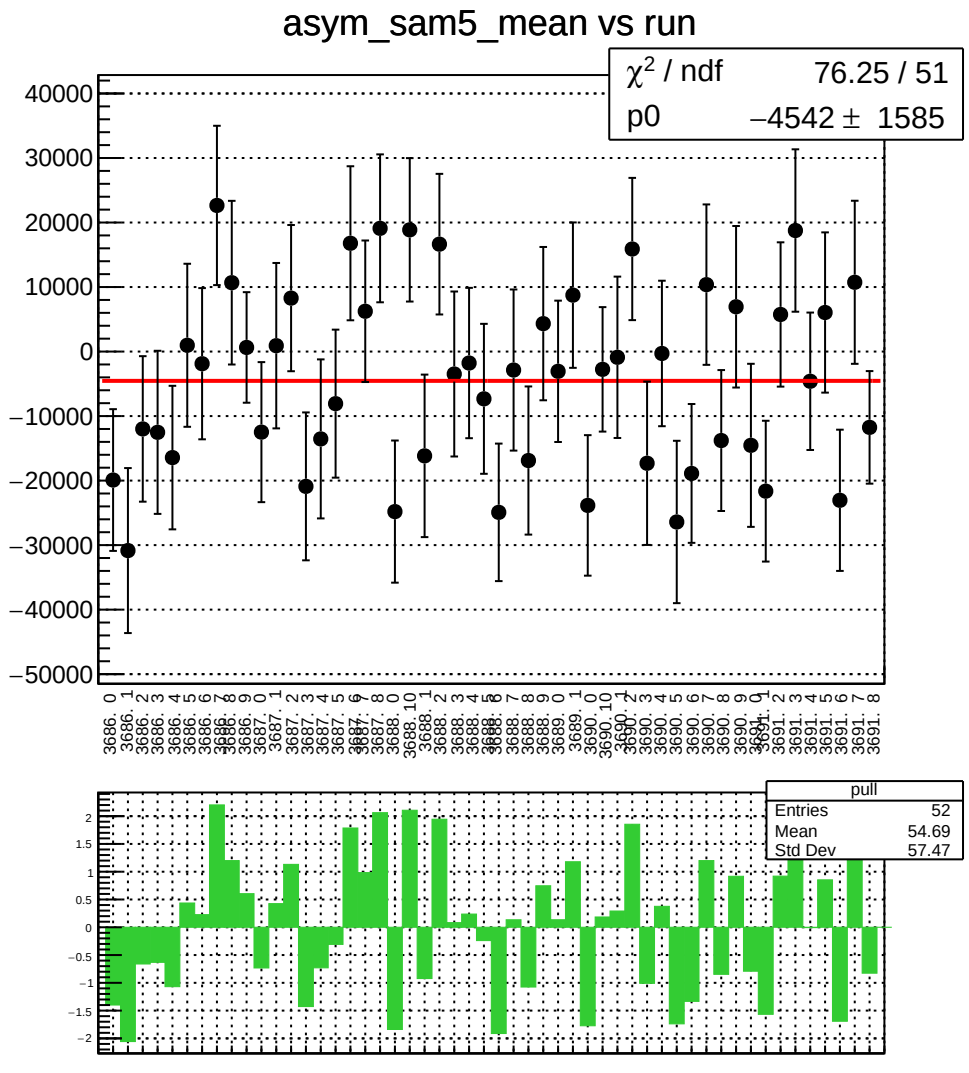

pull1D
Entries 52
Mean 0.003869
Std Dev 0.8241
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

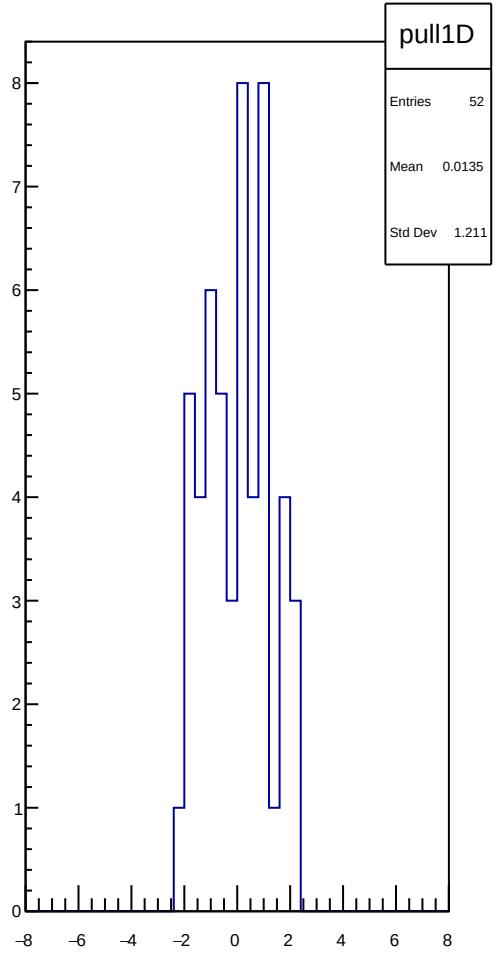

asym_sam3_rms vs run
χ² / ndf 470.1 / 51
p0 4783 ± 4.82
5100
5000
4900
4800
4700
4600
4500
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

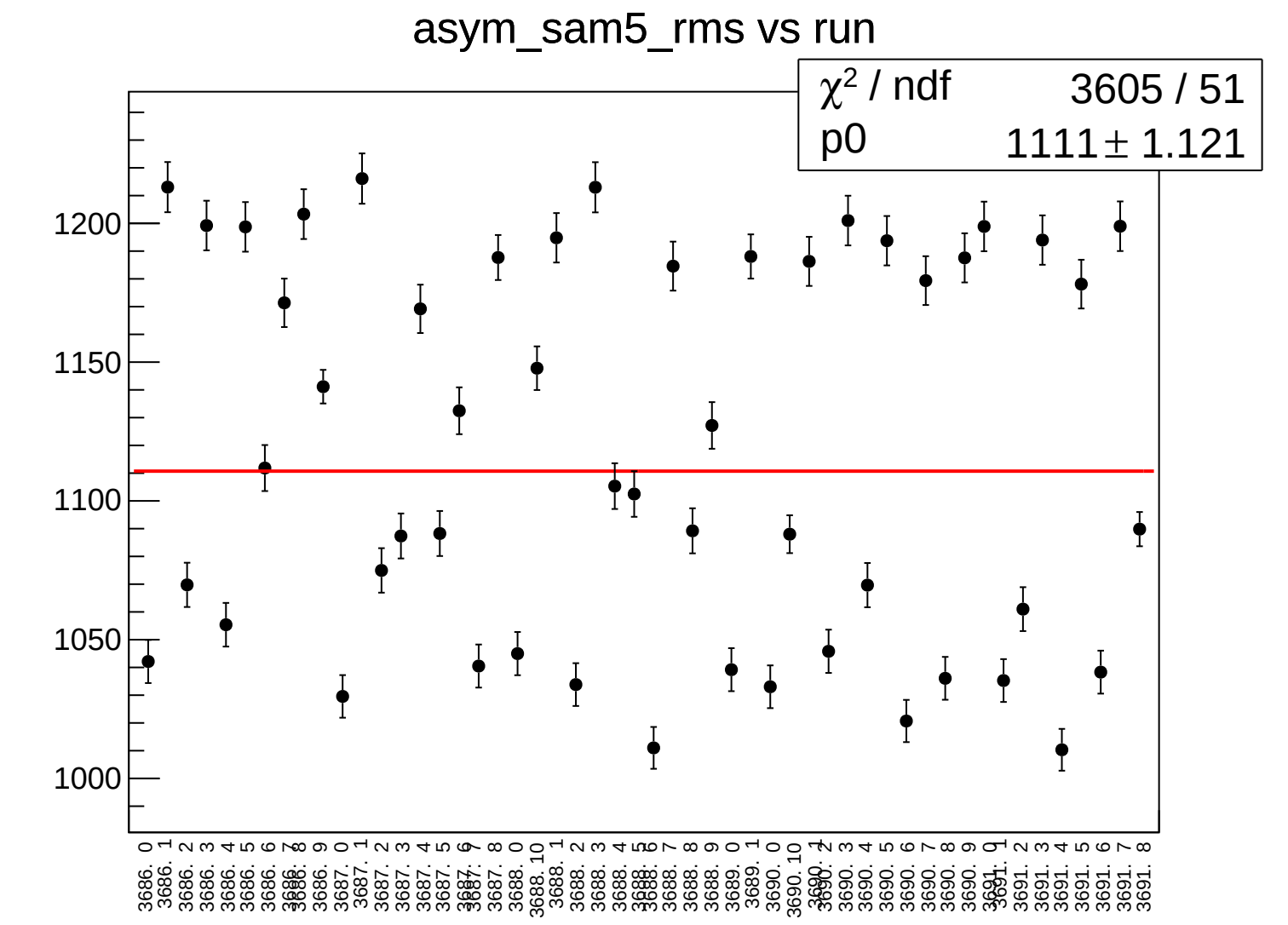

asym_sam4_mean vs run
×10^3
χ^2 / ndf 52.51 / 51
p0 2654 ± 5698
150
100
50
0
−50
−100
−150
pull
Entries 52
Mean −674.2
Std Dev 697.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

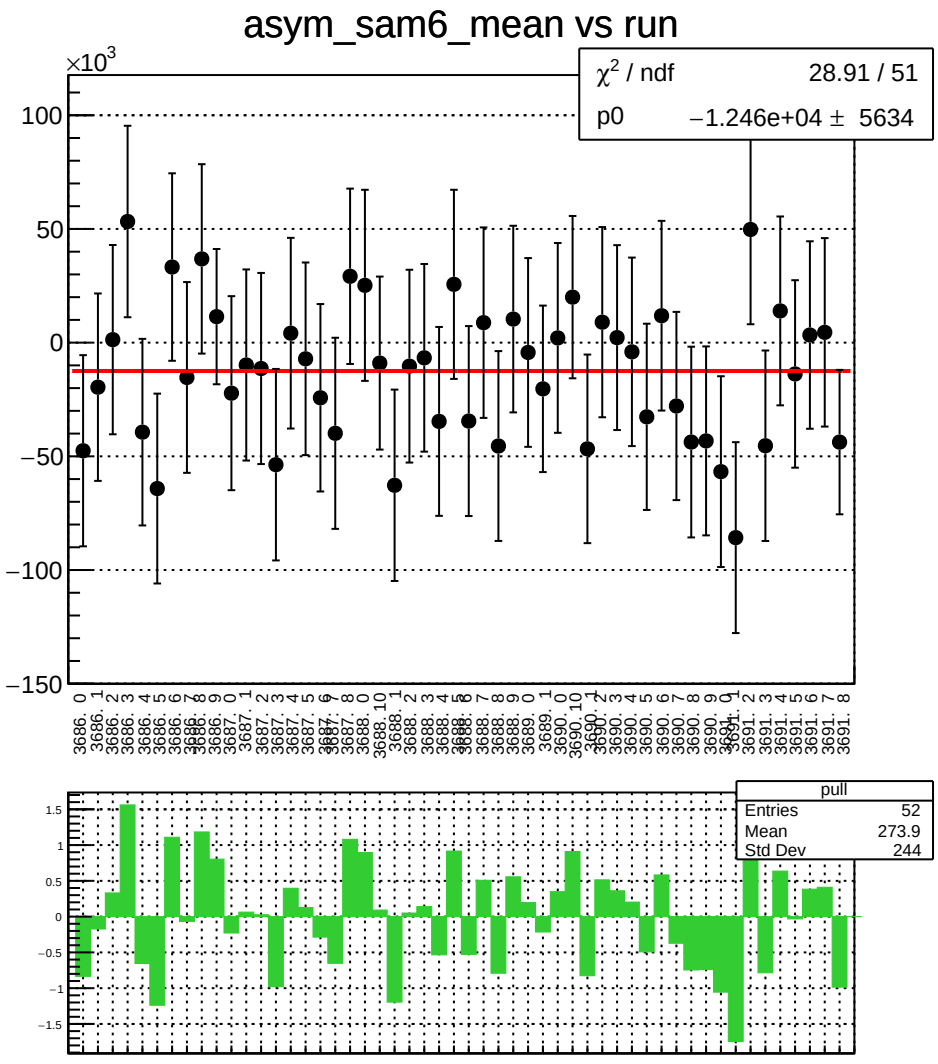

pull1D
Entries 52
Mean −0.003062
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

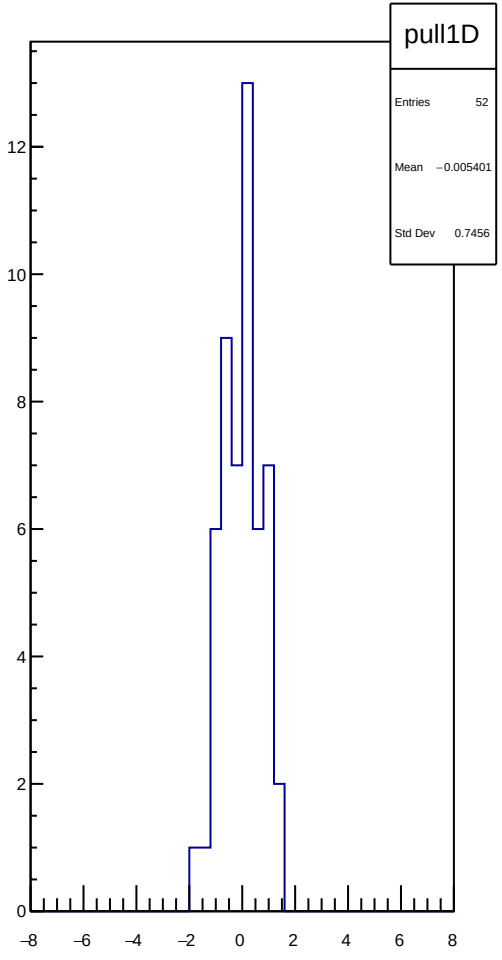

asym_sam4_rms vs run
χ² / ndf 185.7 / 51
p0 3999 ± 4.029
4150
4100
4050
4000
3950
3900
3850
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

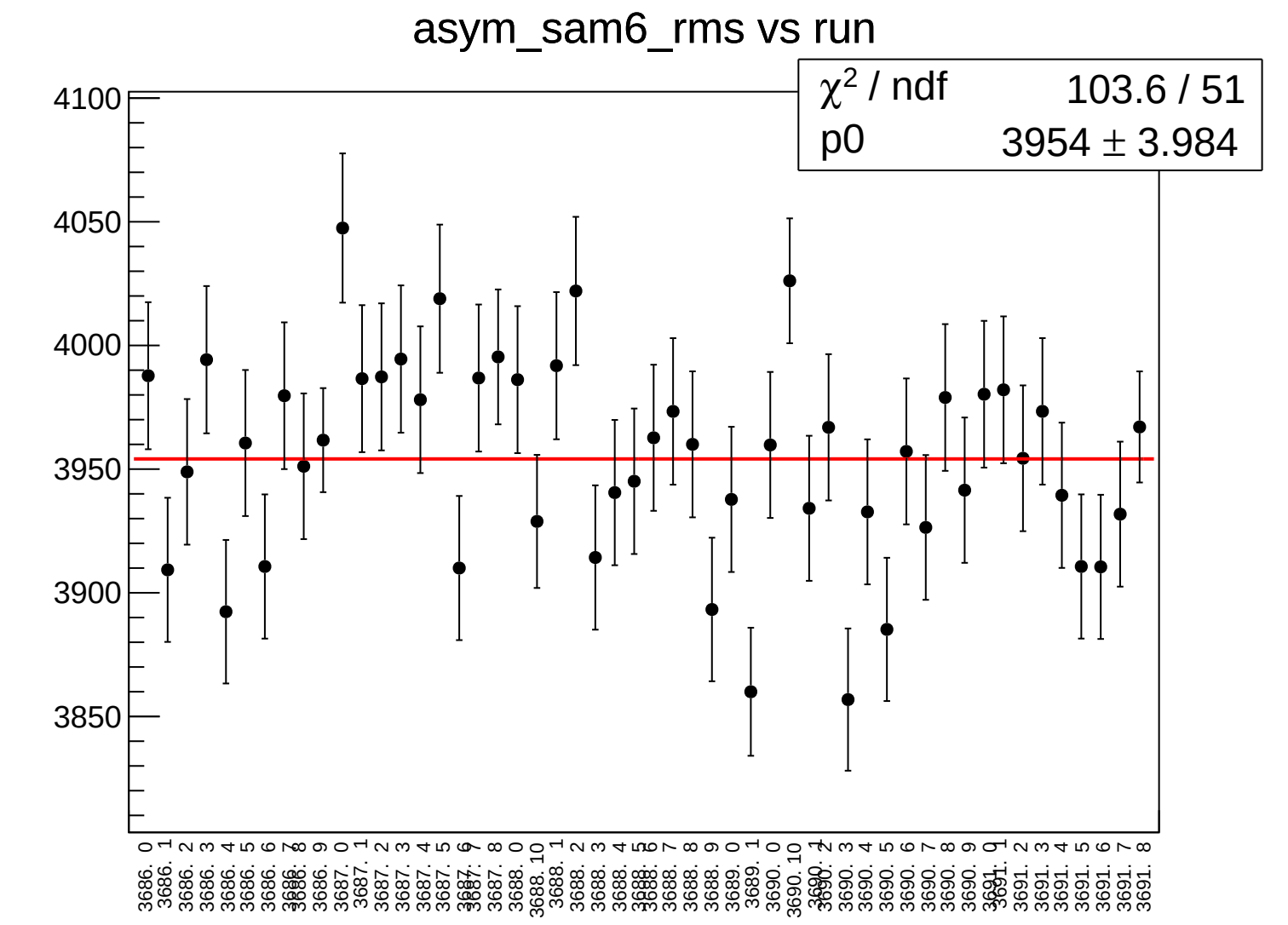

asym_sam5_mean vs run
χ² / ndf 76.25 / 51
p0 −4542 ± 1585
pull
Entries 52
Mean 54.69
Std Dev 57.47

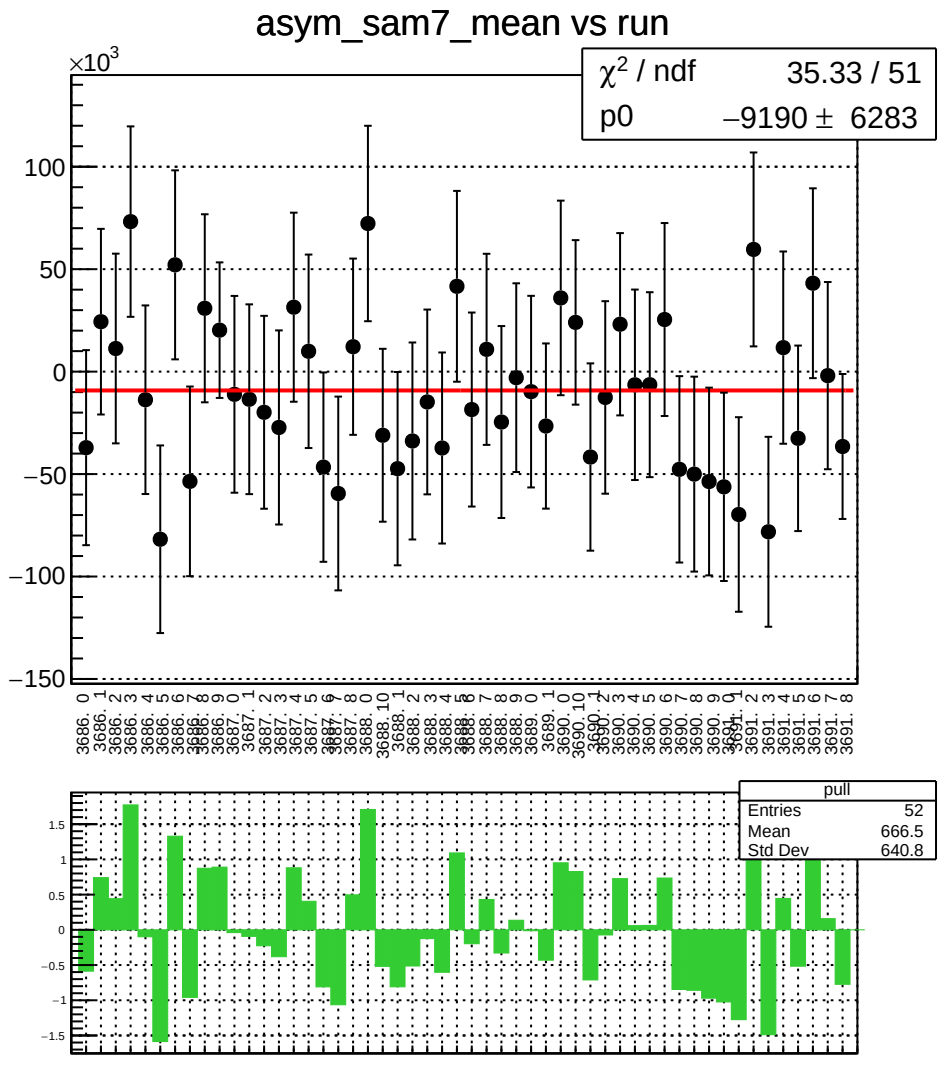

pull1D
Entries 52
Mean 0.0135
Std Dev 1.211

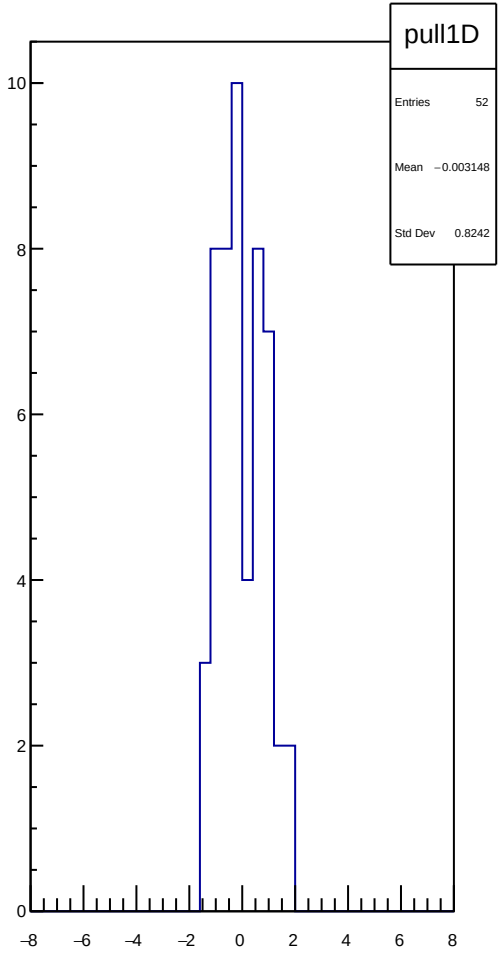

asym_sam5_rms vs run
χ² / ndf 3605 / 51
p0 1111 ± 1.121
1200
1150
1100
1050
1000
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

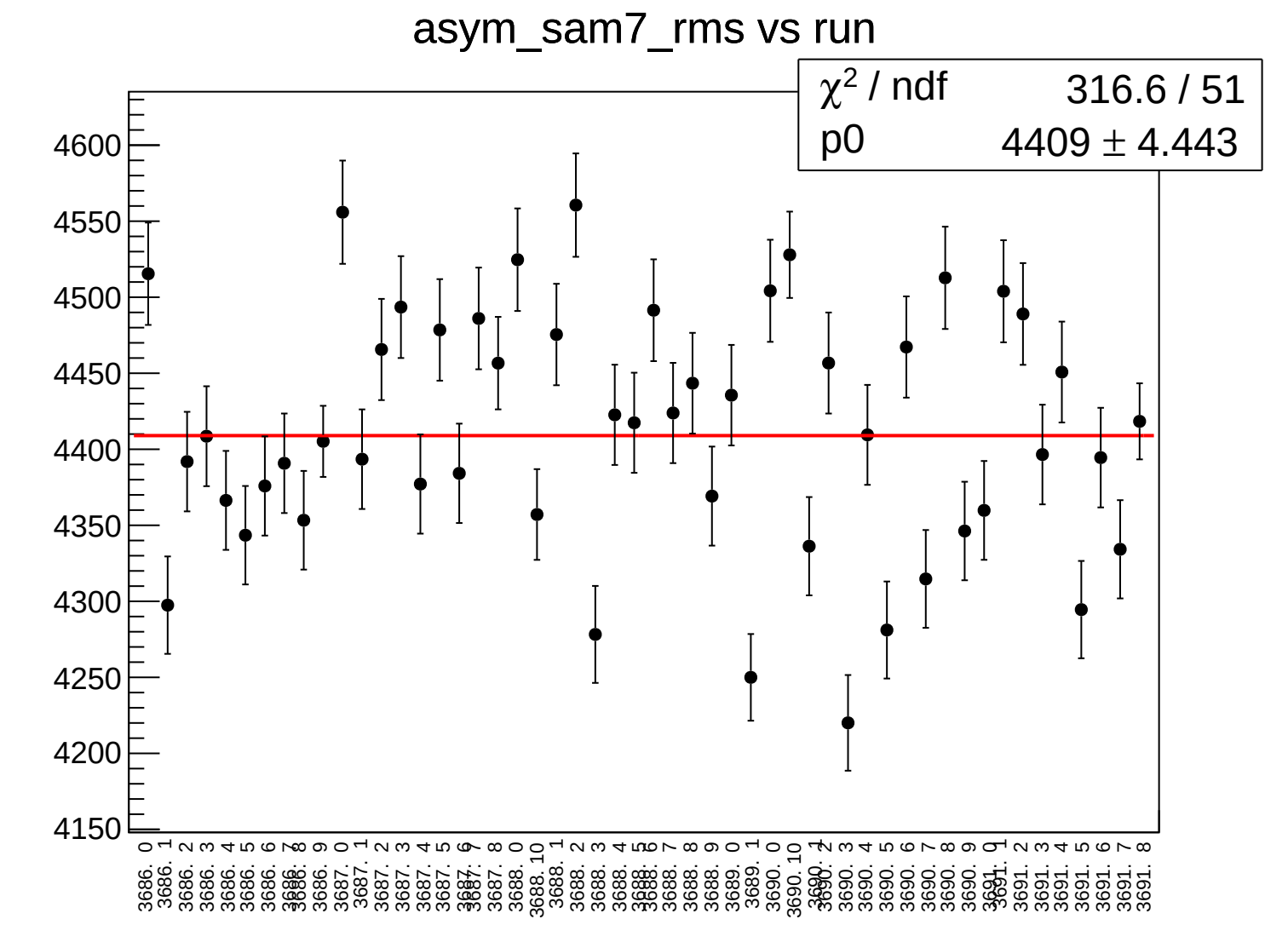

asym_sam6_mean vs run
×10^3
χ² / ndf 28.91 / 51
p0 −1.246e+04 ± 5634
100
50
0
−50
−100
−150
pull
Entries 52
Mean 273.9
Std Dev 244
1.5
1
0.5
0
−0.5
−1
−1.5

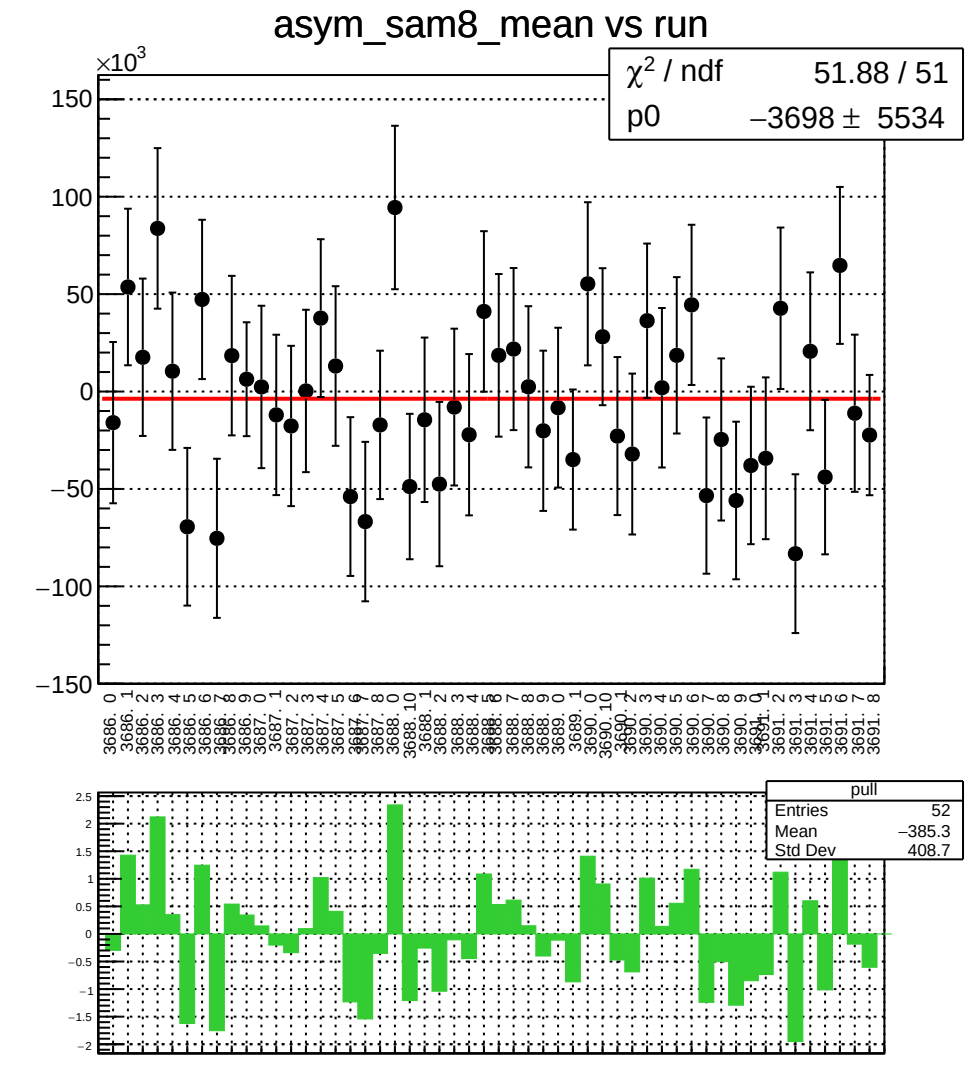

pull1D
Entries 52
Mean −0.005401
Std Dev 0.7456
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

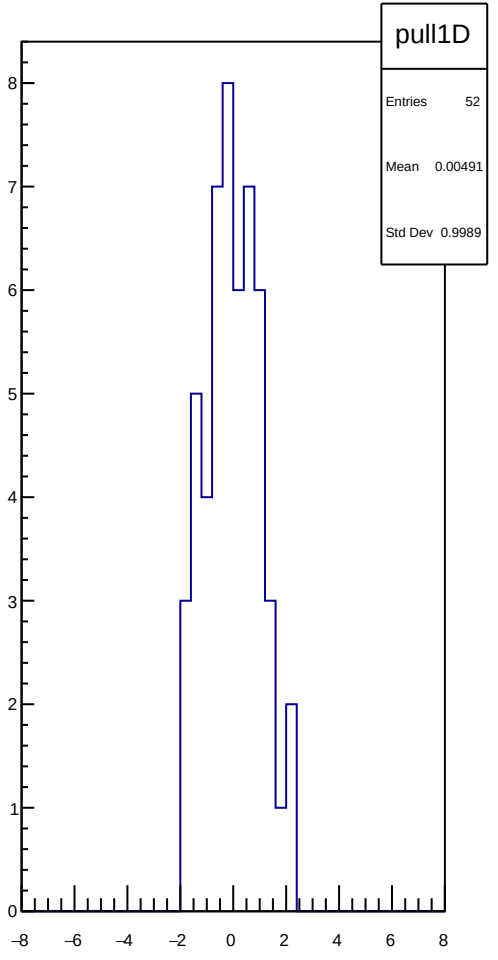

asym_sam6_rms vs run
χ² / ndf 103.6 / 51
p0 3954 ± 3.984
4100
4050
4000
3950
3900
3850
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

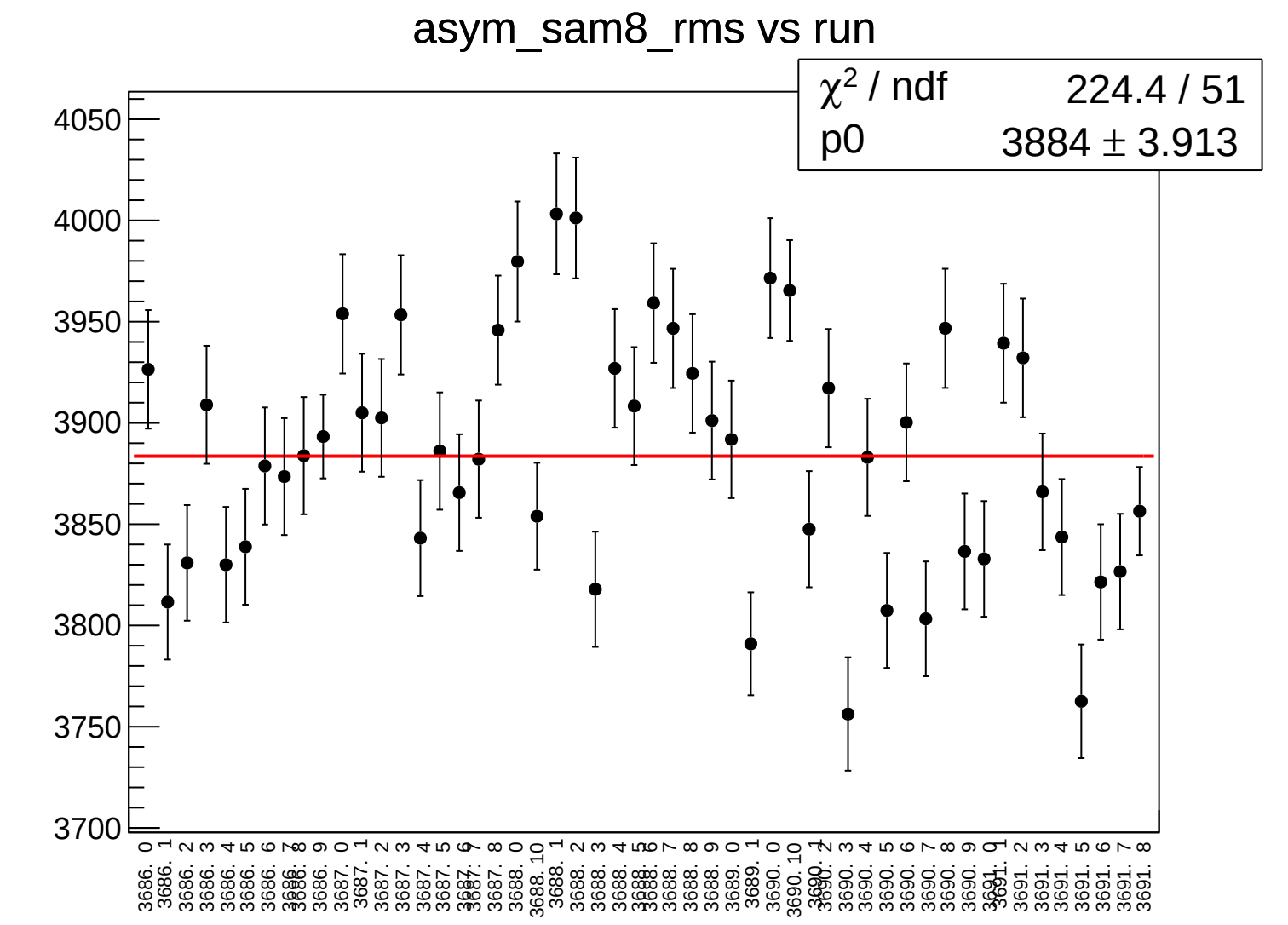

asym_sam7_mean vs run
×10^3
χ² / ndf 35.33 / 51
p0 −9190 ± 6283
100
50
0
−50
−100
−150
pull
Entries 52
Mean 666.5
Std Dev 640.8
1.5
1
0.5
0
−0.5
−1
−1.5

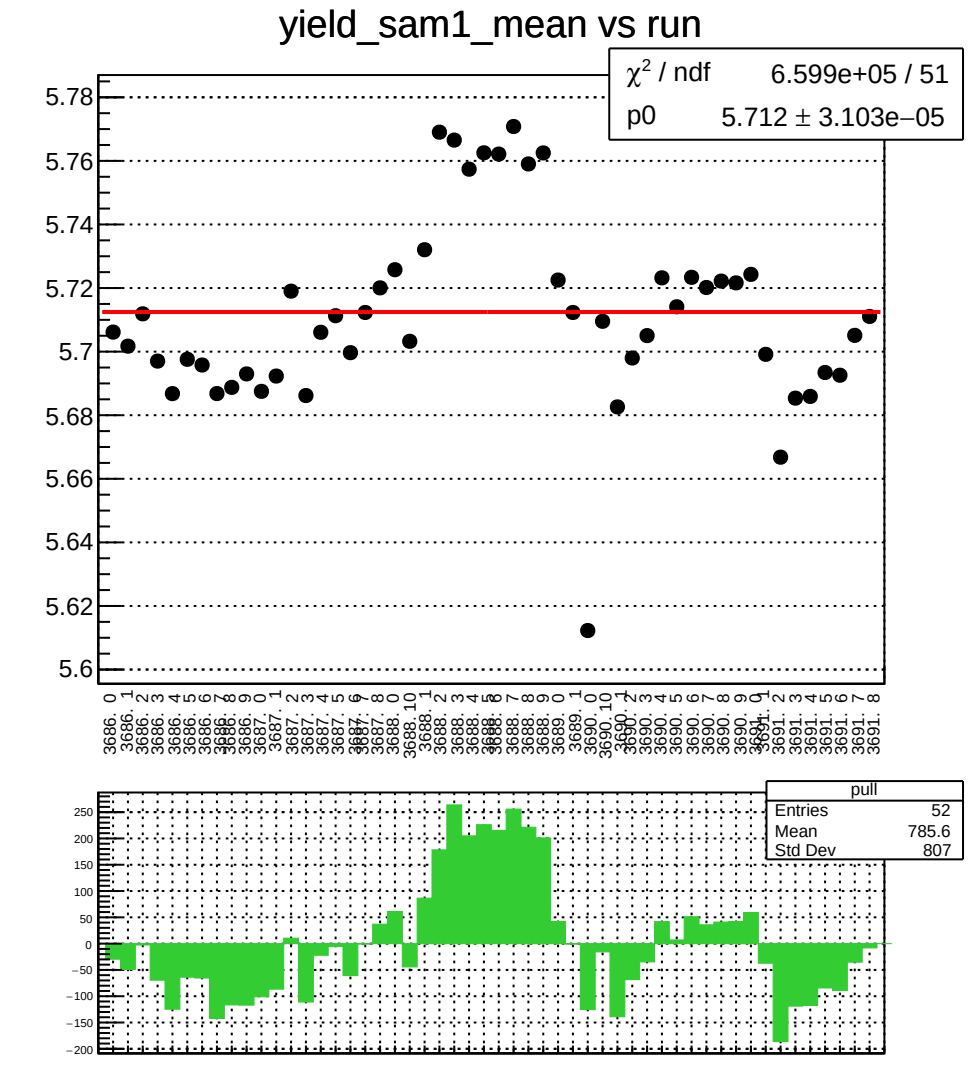

pull1D
Entries 52
Mean −0.003148
Std Dev 0.8242
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

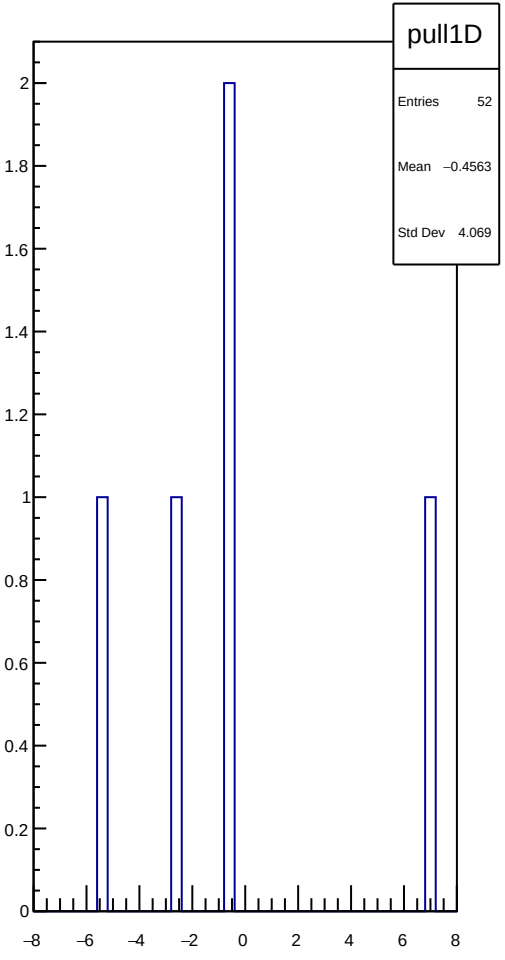

asym_sam7_rms vs run
χ^2 / ndf 316.6 / 51
p0 4409 ± 4.443
4600
4550
4500
4450
4400
4350
4300
4250
4200
4150
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

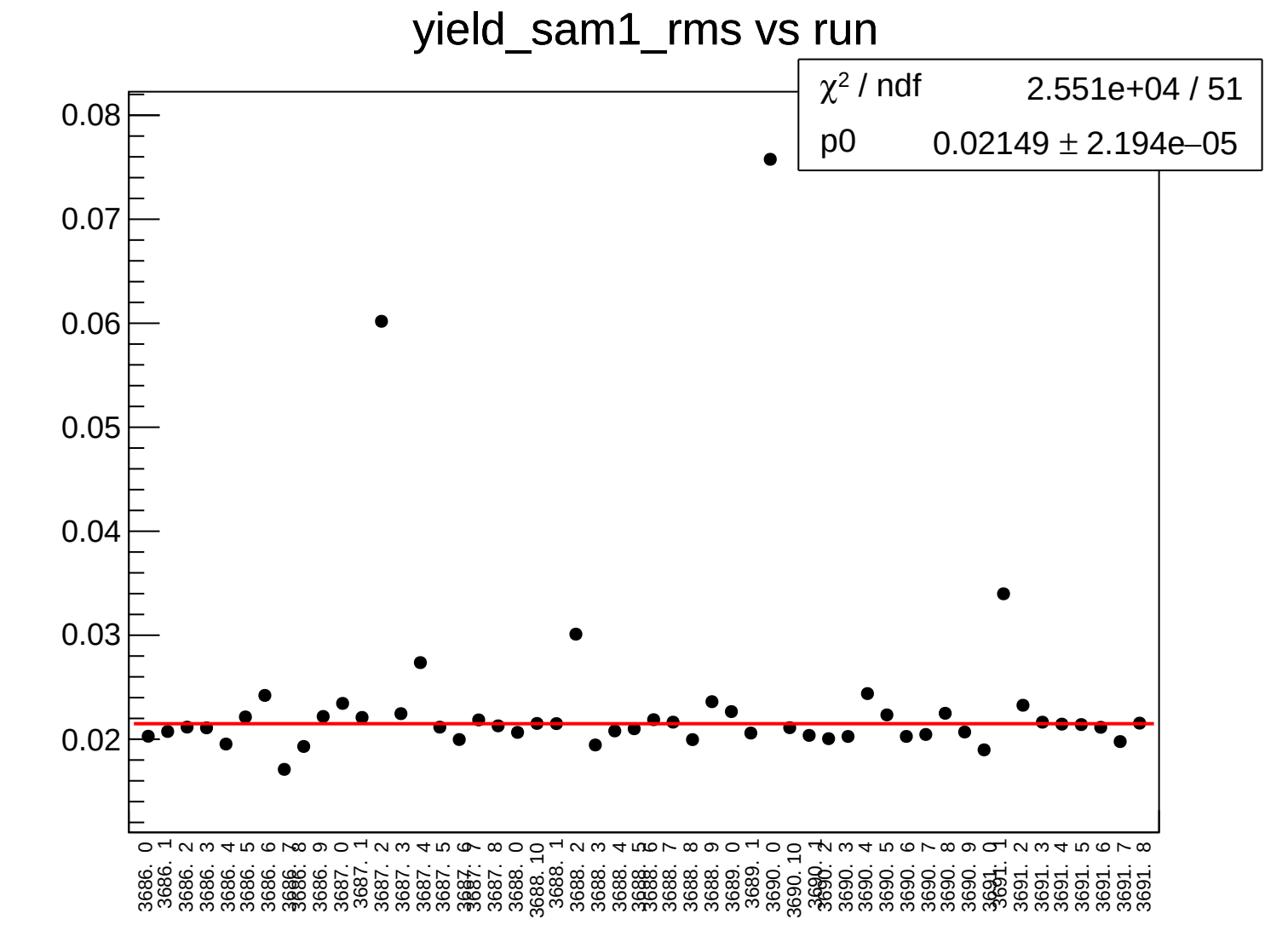

asym_sam8_mean vs run
×10^3
χ² / ndf 51.88 / 51
p0 −3698 ± 5534
150
100
50
0
−50
−100
−150
pull
Entries 52
Mean −385.3
Std Dev 408.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

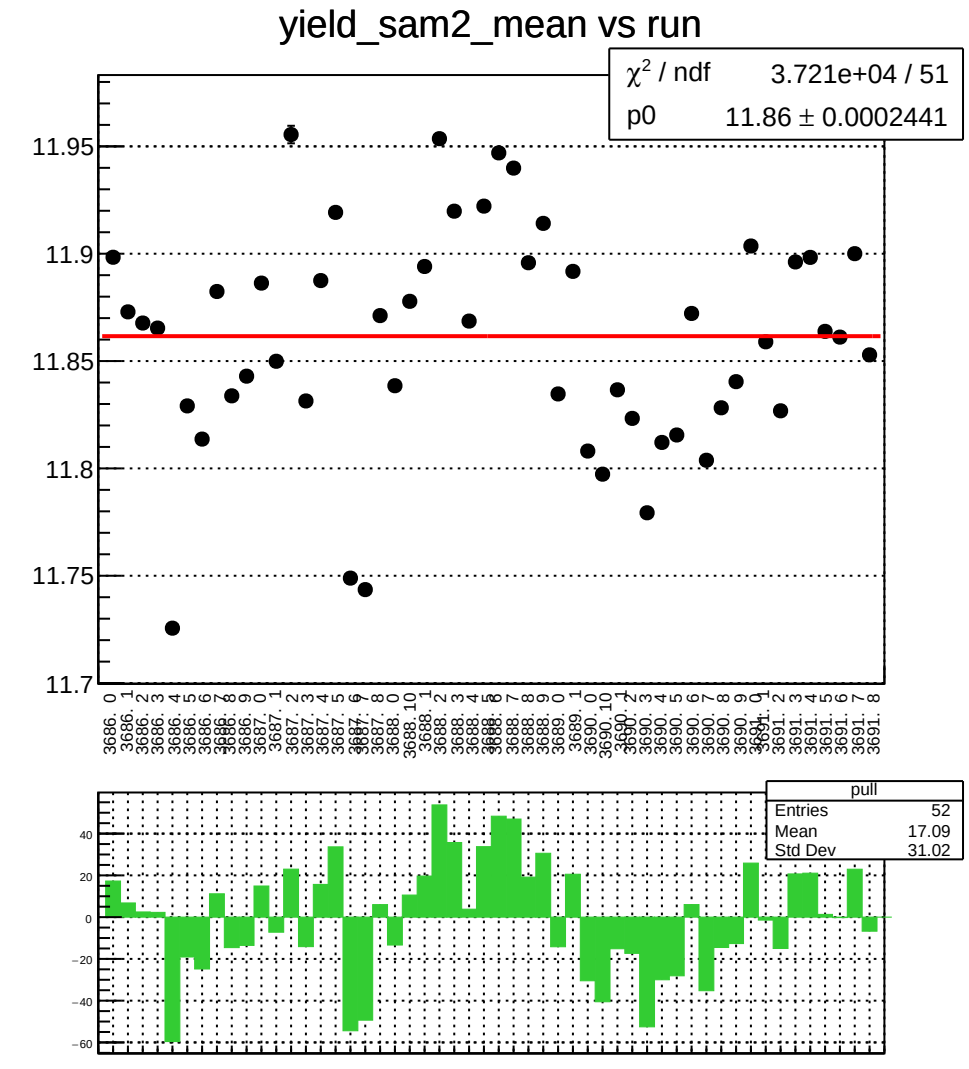

pull1D
Entries 52
Mean 0.00491
Std Dev 0.9989
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

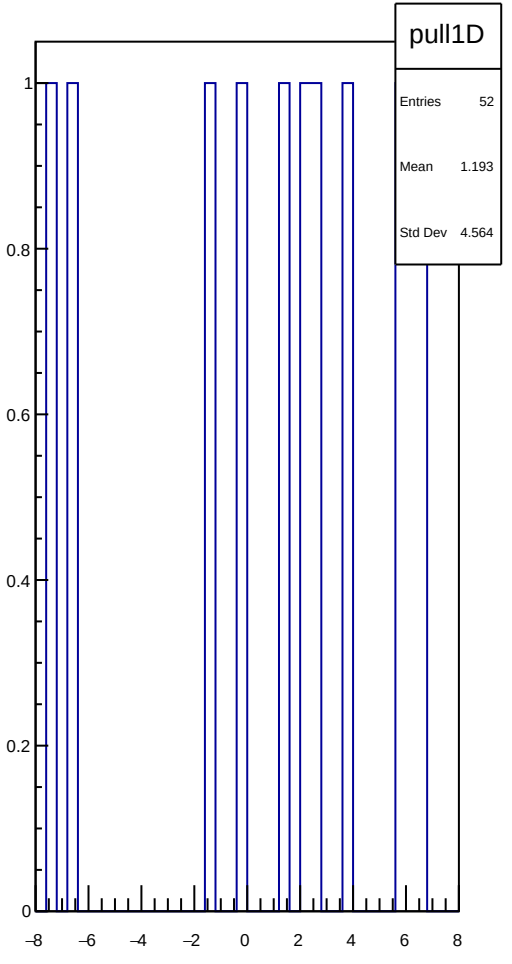

asym_sam8_rms vs run
χ^2 / ndf 224.4 / 51
p0 3884 ± 3.913
4050
4000
3950
3900
3850
3800
3750
3700

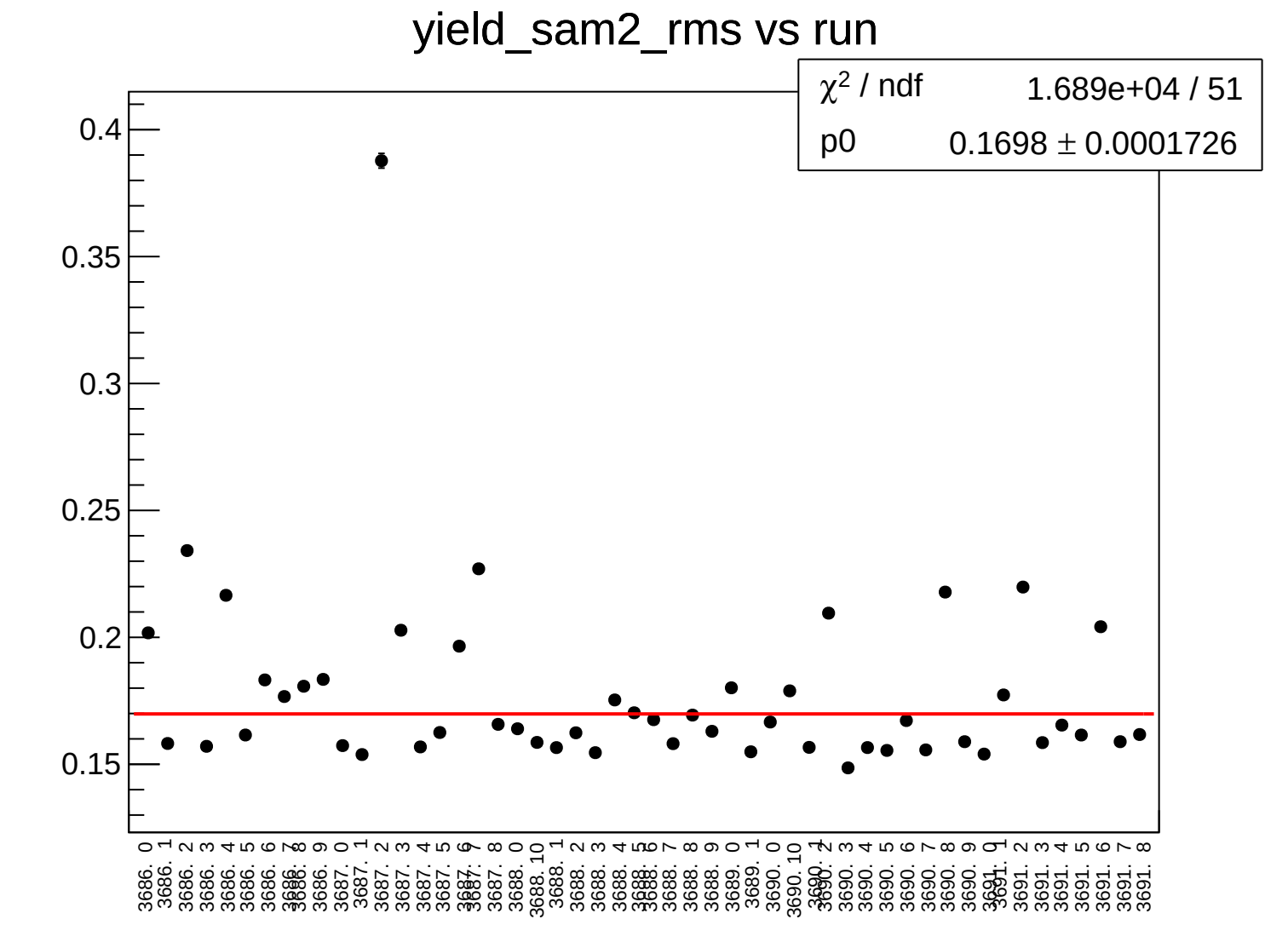

yield_sam1_mean vs run
χ² / ndf 6.599e+05 / 51
p0 5.712 ± 3.103e−05
pull
Entries 52
Mean 785.6
Std Dev 807

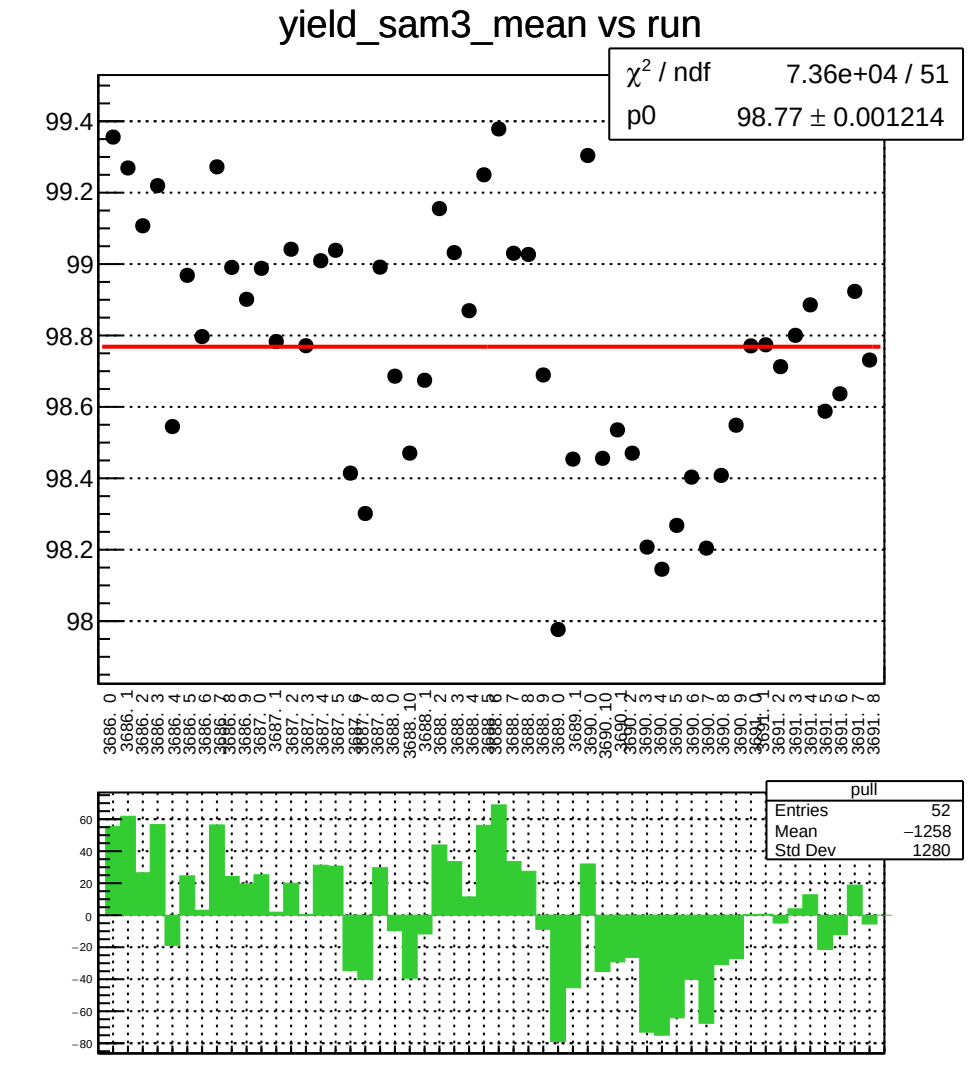

pull1D
Entries 52
Mean −0.4563
Std Dev 4.069

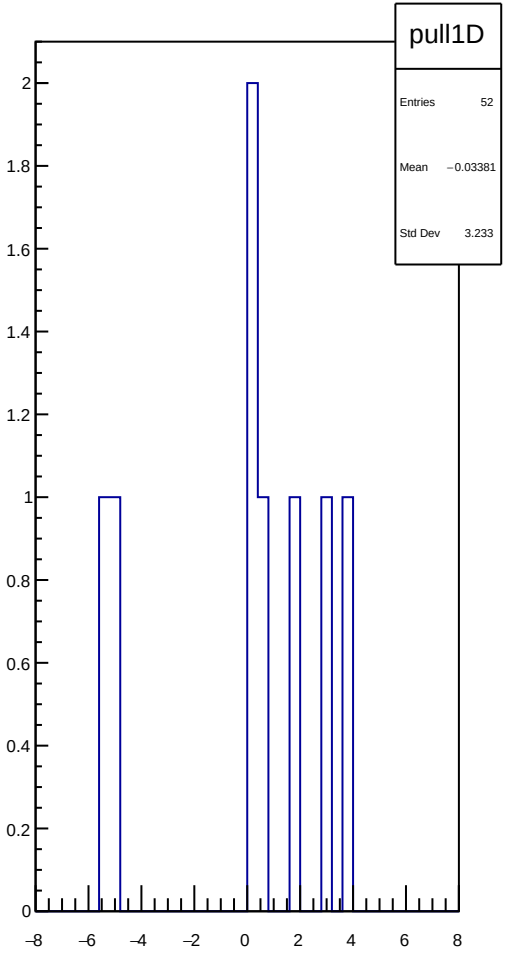

yield_sam1_rms vs run
χ² / ndf 2.551e+04 / 51
p0 0.02149 ± 2.194e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

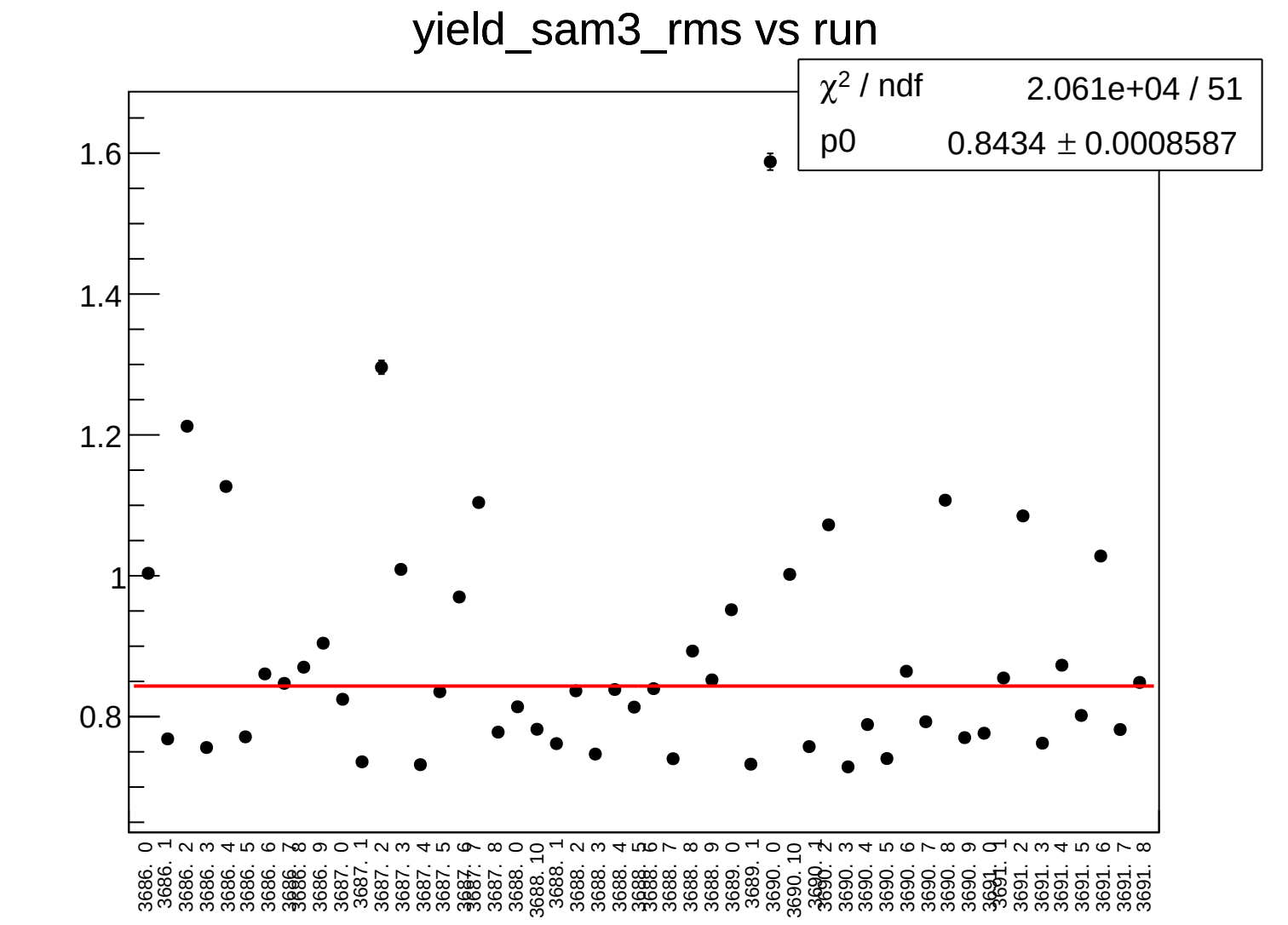

yield_sam2_mean vs run
χ² / ndf 3.721e+04 / 51
p0 11.86 ± 0.0002441
11.95
11.9
11.85
11.8
11.75
11.7
pull
Entries 52
Mean 17.09
Std Dev 31.02
40
20
0
−20
−40
−60

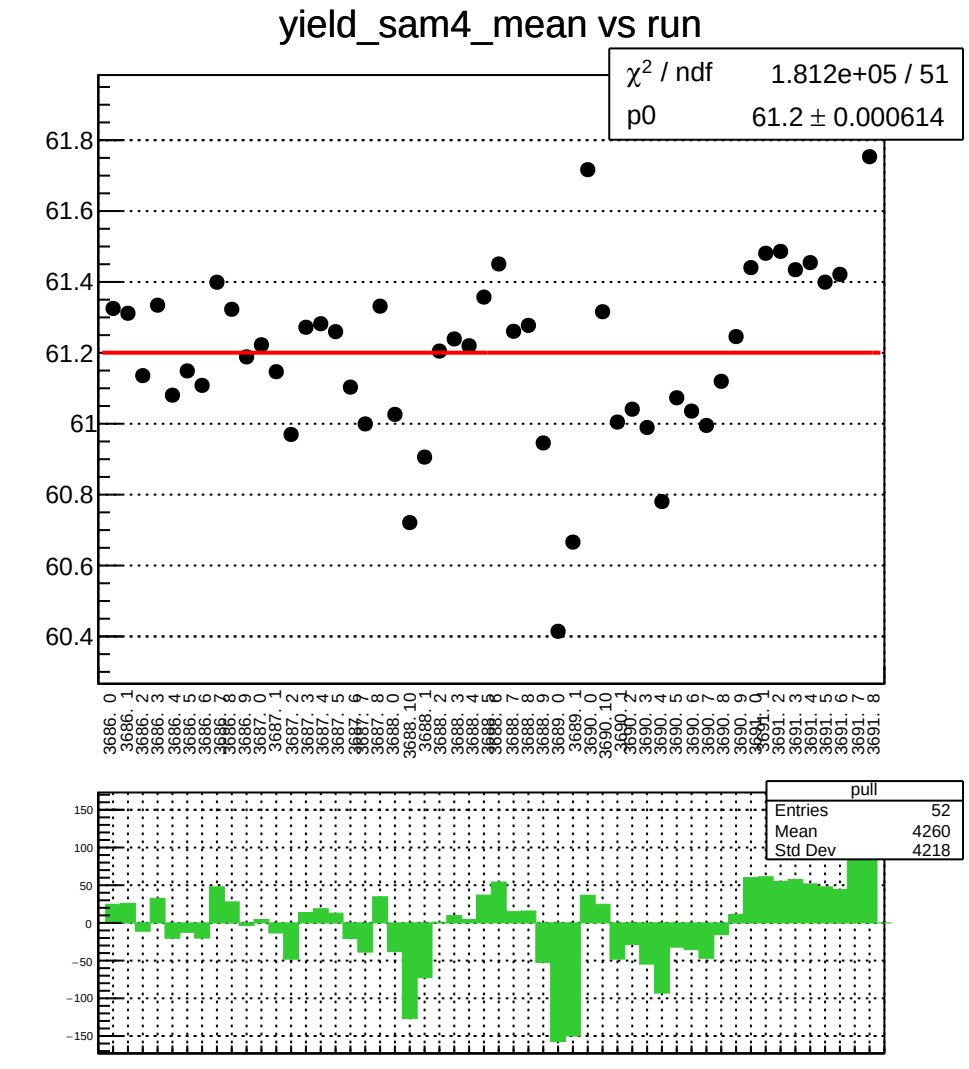

pull1D
Entries 52
Mean 1.193
Std Dev 4.564
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

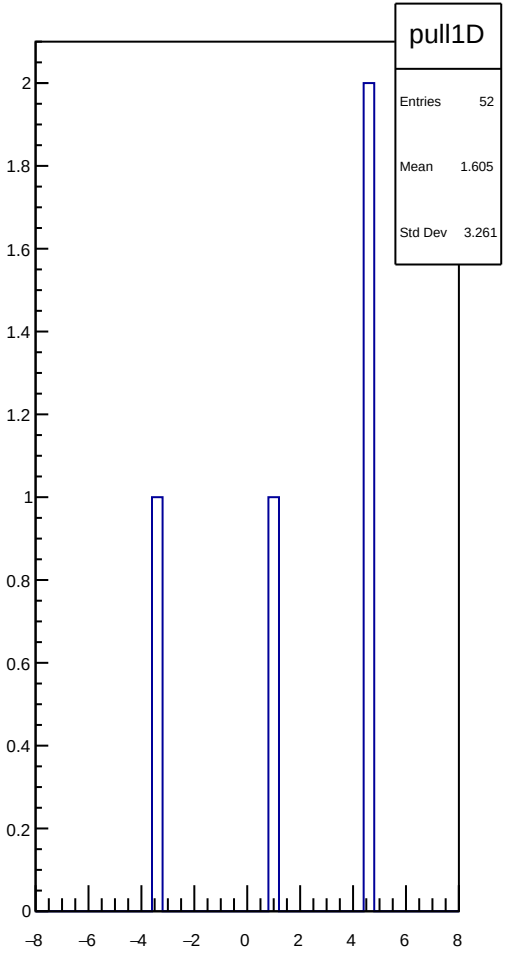

yield_sam2_rms vs run
χ² / ndf 1.689e+04 / 51
p0 0.1698 ± 0.0001726
0.4
0.35
0.3
0.25
0.2
0.15
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

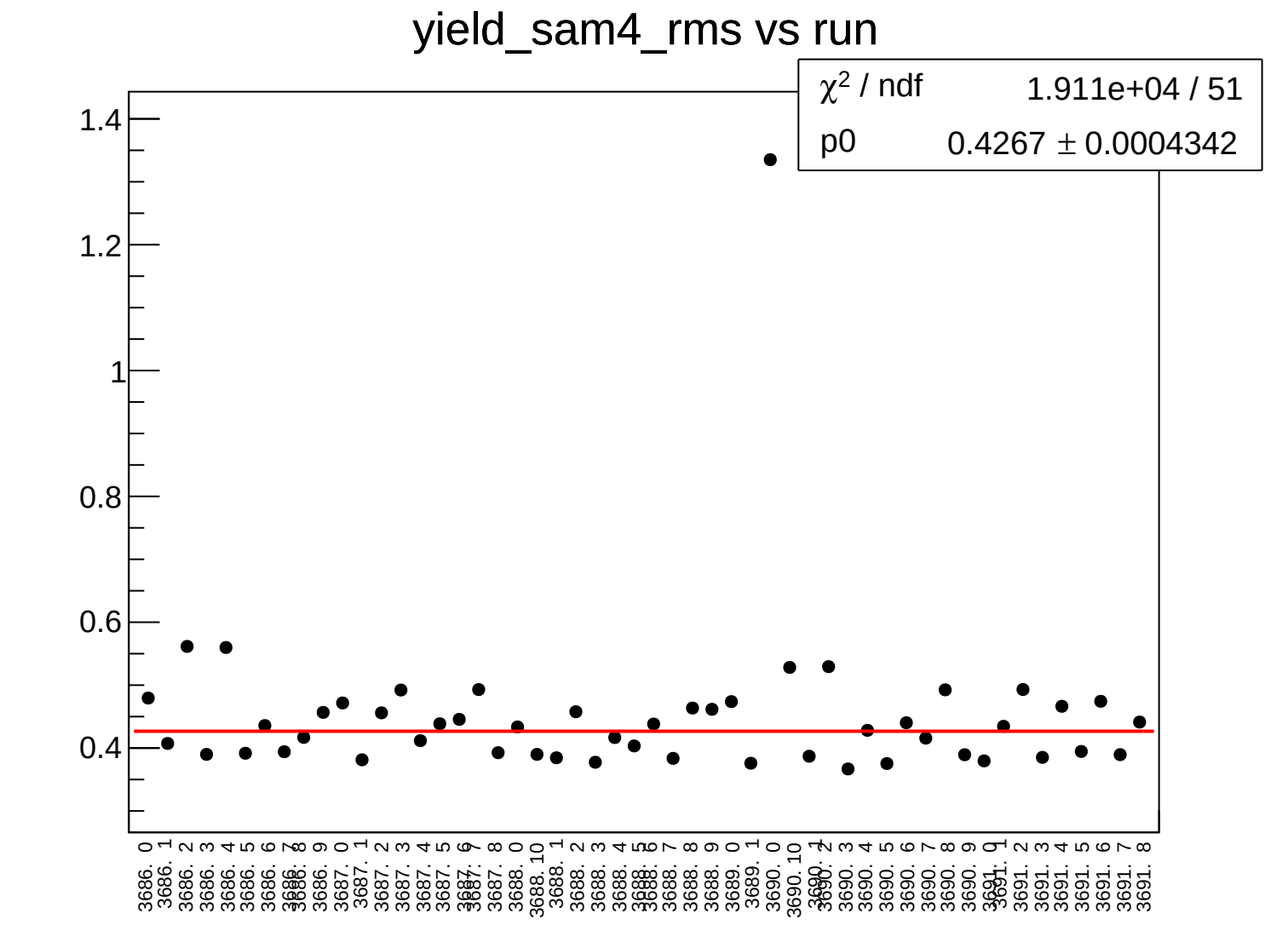

yield_sam3_mean vs run
χ² / ndf 7.36e+04 / 51
p0 98.77 ± 0.001214
99.4
99.2
99
98.8
98.6
98.4
98.2
98
pull
Entries 52
Mean −1258
Std Dev 1280
60
40
20
0
−20
−40
−60
−80

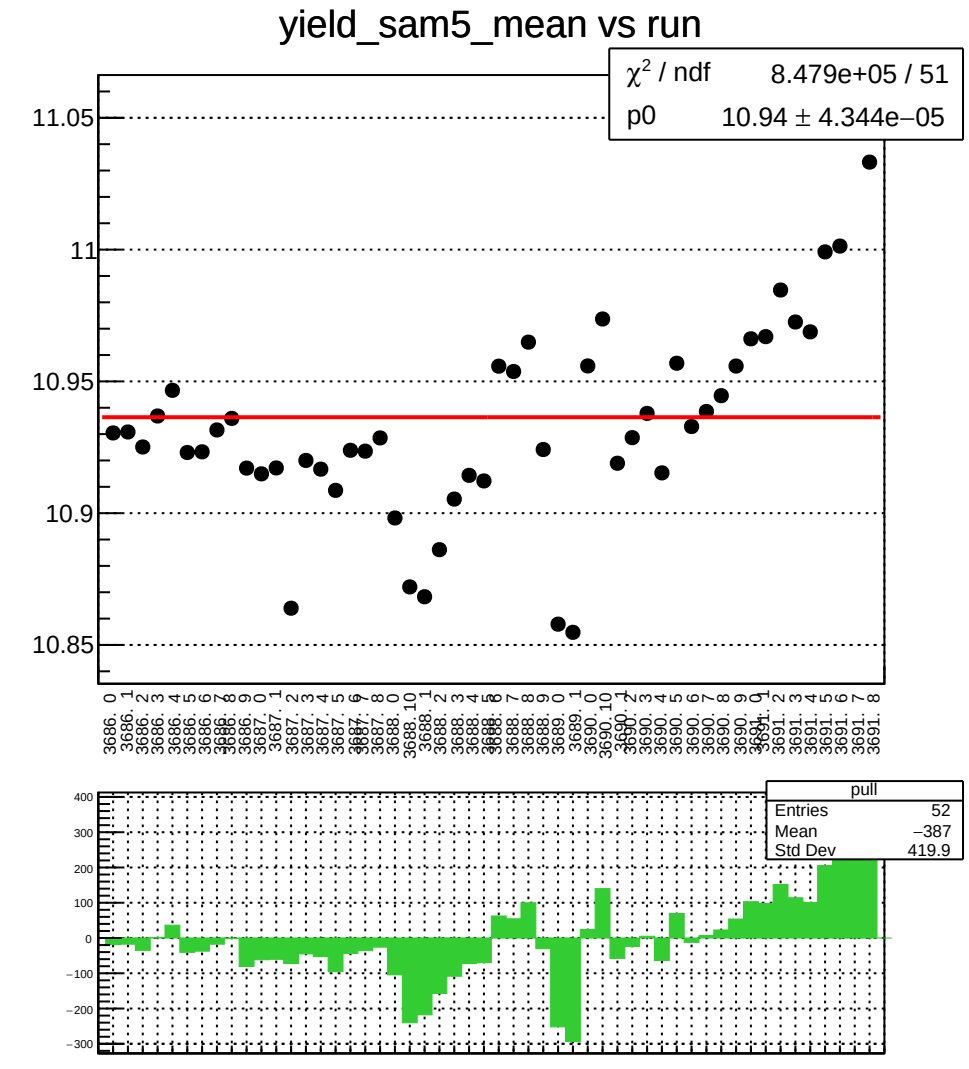

pull1D
Entries 52
Mean −0.03381
Std Dev 3.233
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

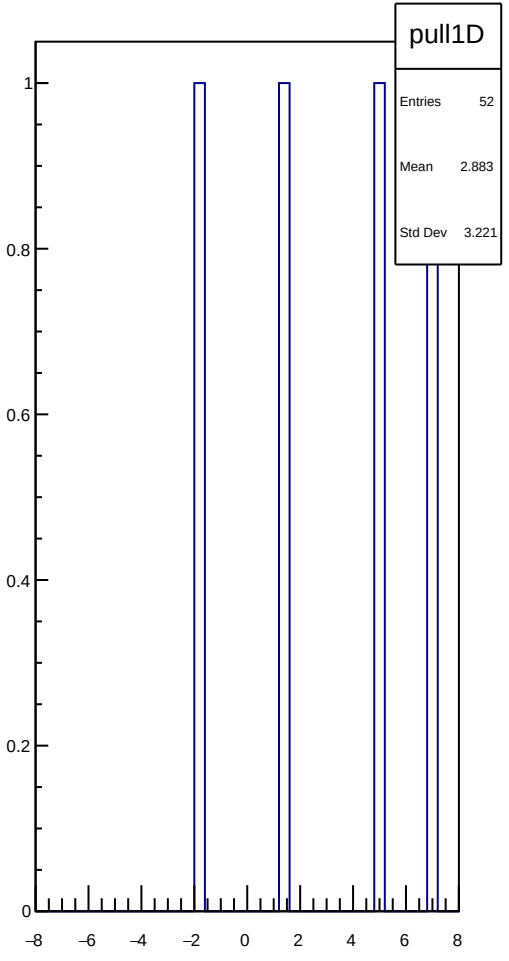

yield_sam3_rms vs run
χ² / ndf 2.061e+04 / 51
p0 0.8434 ± 0.0008587
1.6
1.4
1.2
1
0.8
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

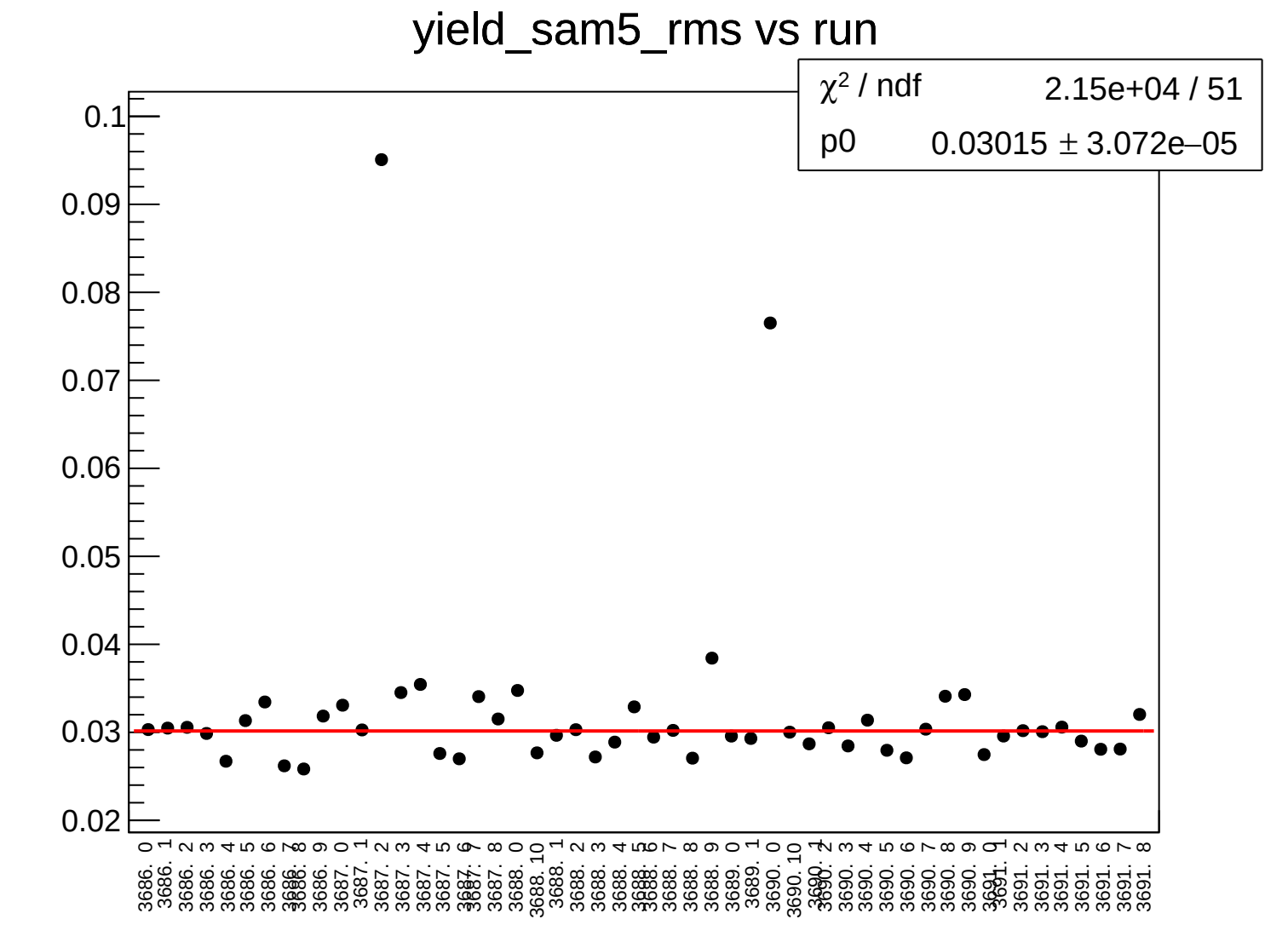

yield_sam4_mean vs run
χ² / ndf 1.812e+05 / 51
p0 61.2 ± 0.000614
pull
Entries 52
Mean 4260
Std Dev 4218

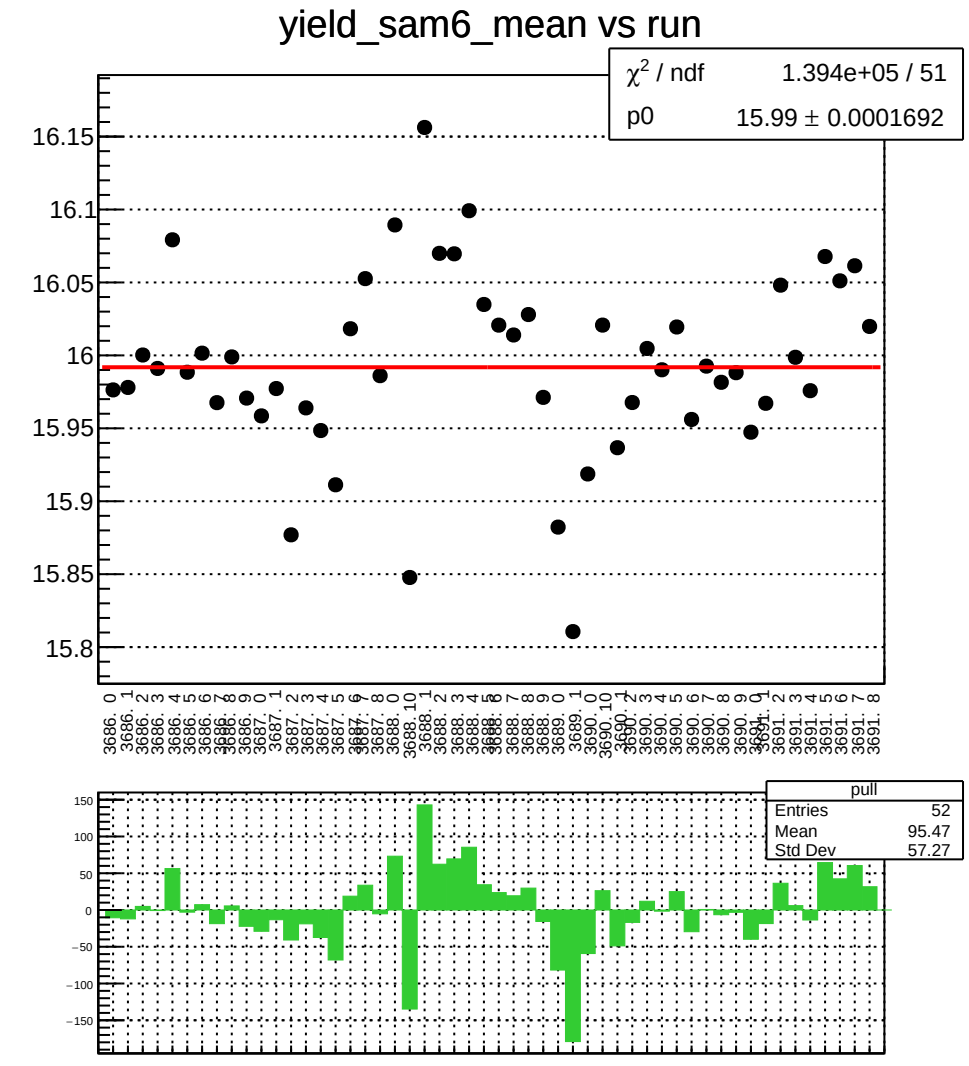

pull1D
Entries 52
Mean 1.605
Std Dev 3.261

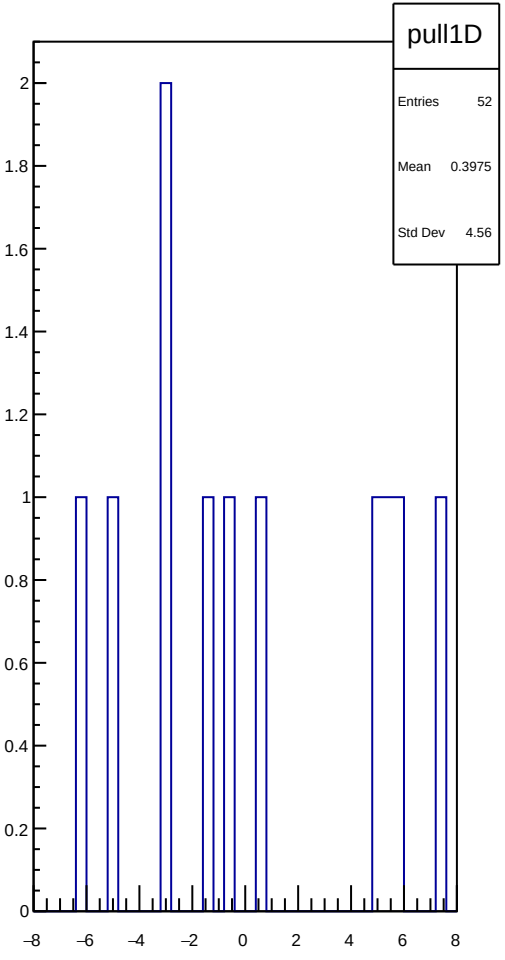

yield_sam4_rms vs run
χ² / ndf 1.911e+04 / 51
p0 0.4267 ± 0.0004342
1.4
1.2
1
0.8
0.6
0.4
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

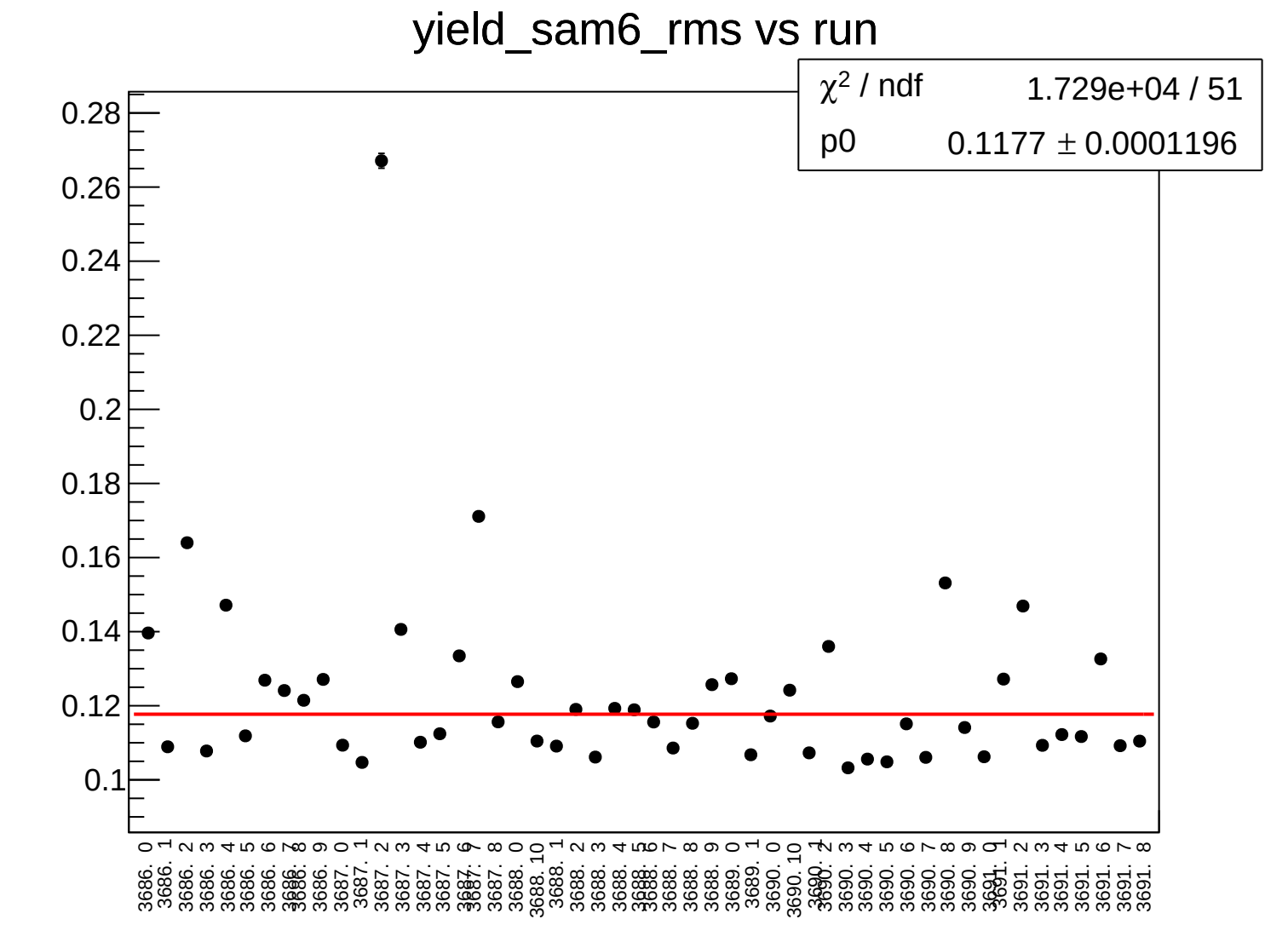

yield_sam5_mean vs run
χ² / ndf 8.479e+05 / 51
p0 10.94 ± 4.344e−05
11.05
11
10.95
10.9
10.85
pull
Entries 52
Mean −387
Std Dev 419.9
400
300
200
100
0
−100
−200
−300

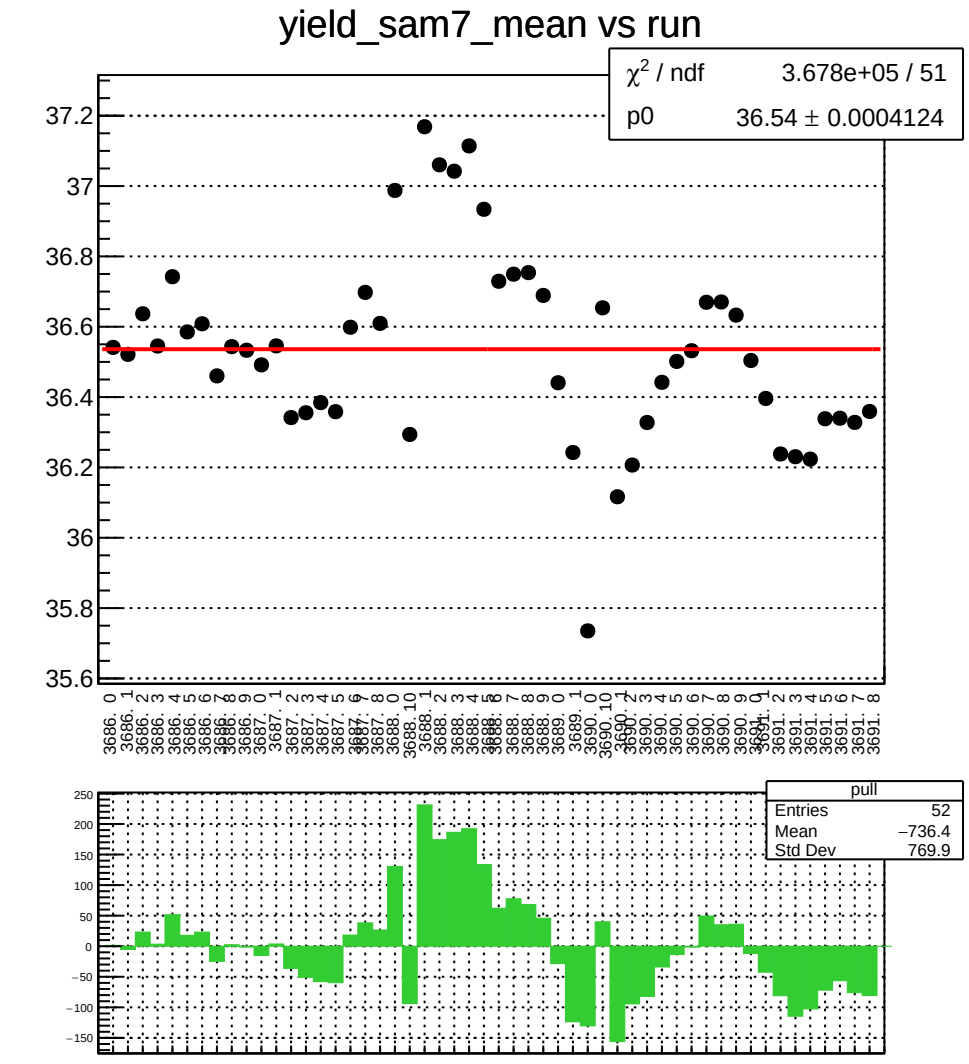

pull1D
Entries 52
Mean 2.883
Std Dev 3.221
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

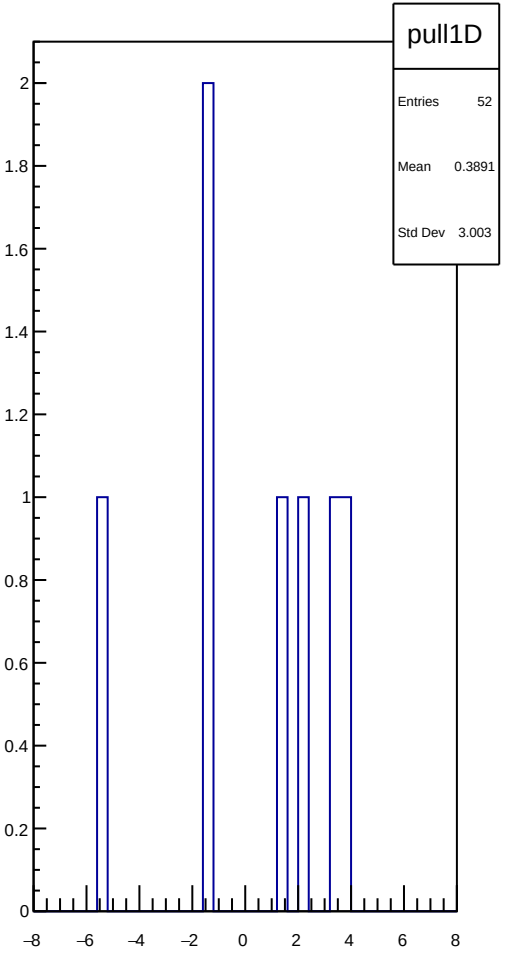

yield_sam5_rms vs run
χ² / ndf 2.15e+04 / 51
p0 0.03015 ± 3.072e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

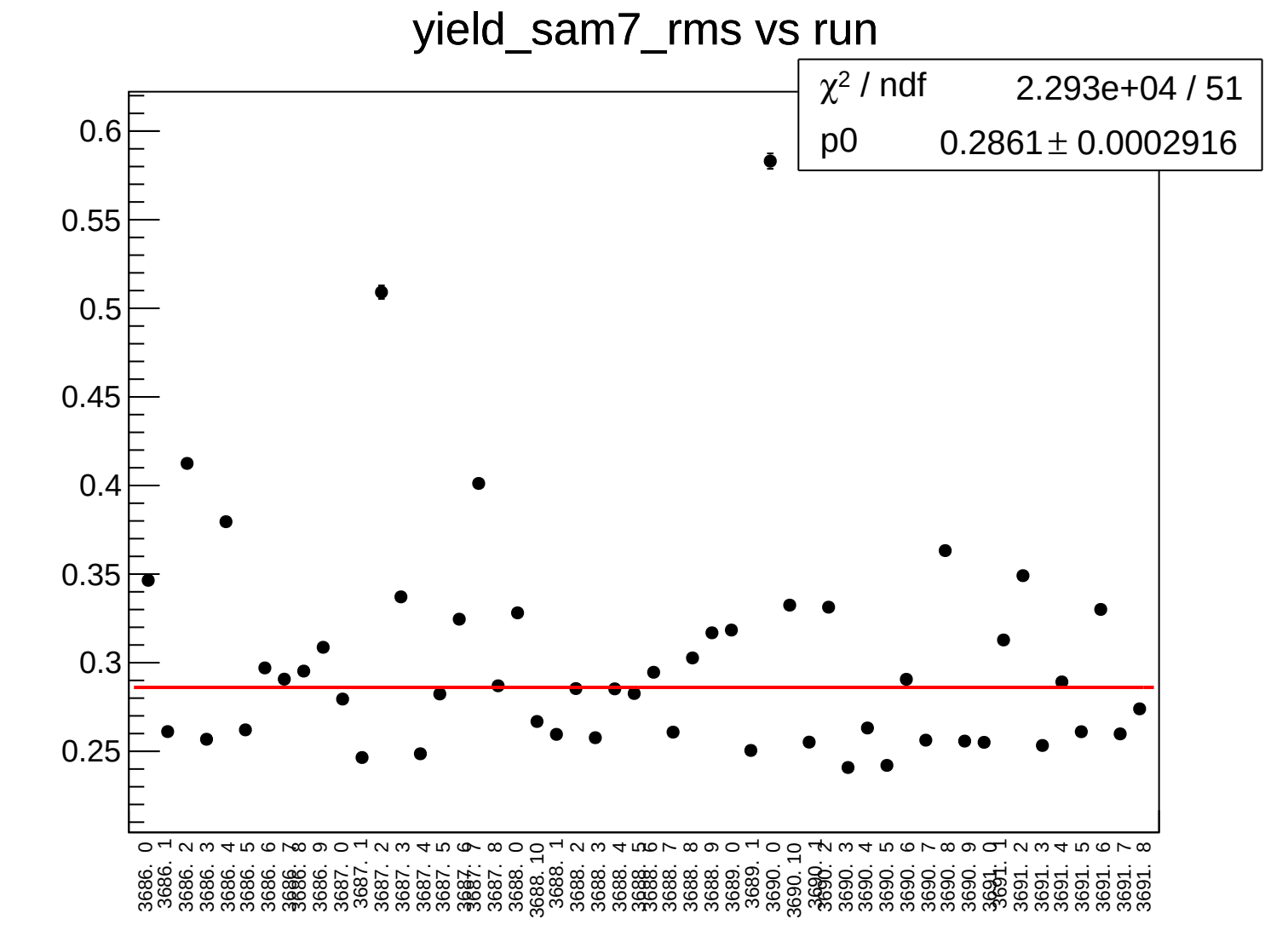

yield_sam6_mean vs run
χ² / ndf 1.394e+05 / 51
p0 15.99 ± 0.0001692
16.15
16.1
16.05
16
15.95
15.9
15.85
15.8
pull
Entries 52
Mean 95.47
Std Dev 57.27
150
100
50
0
−50
−100
−150

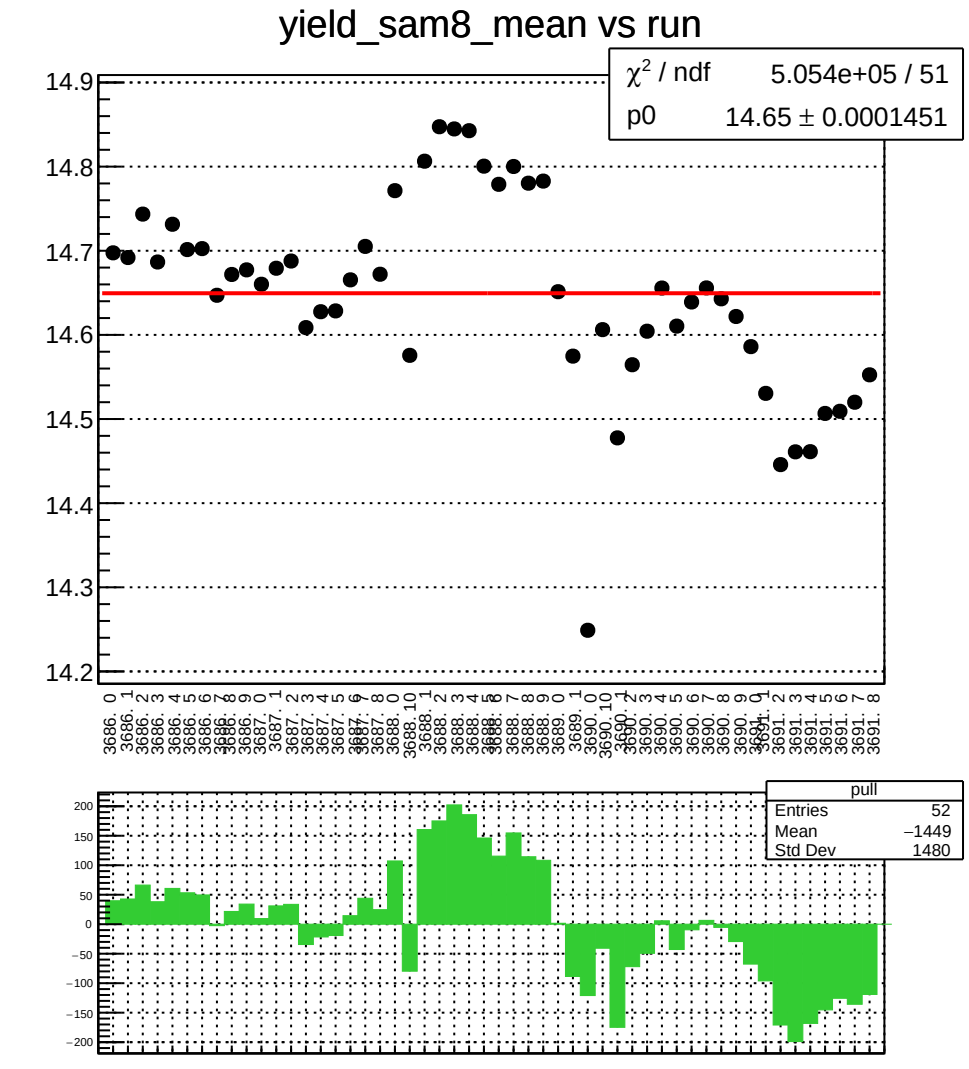

pull1D
Entries 52
Mean 0.3975
Std Dev 4.56
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

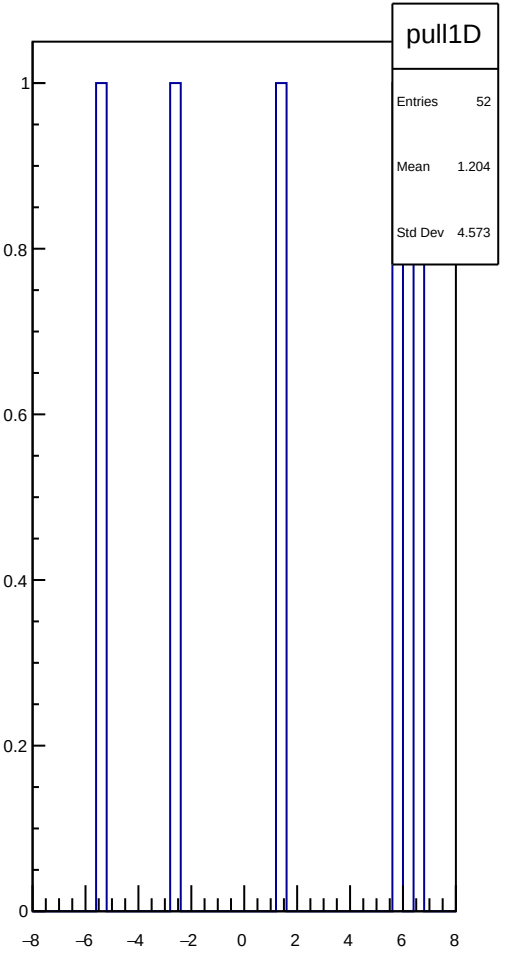

yield_sam6_rms vs run
χ² / ndf 1.729e+04 / 51
p0 0.1177 ± 0.0001196
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

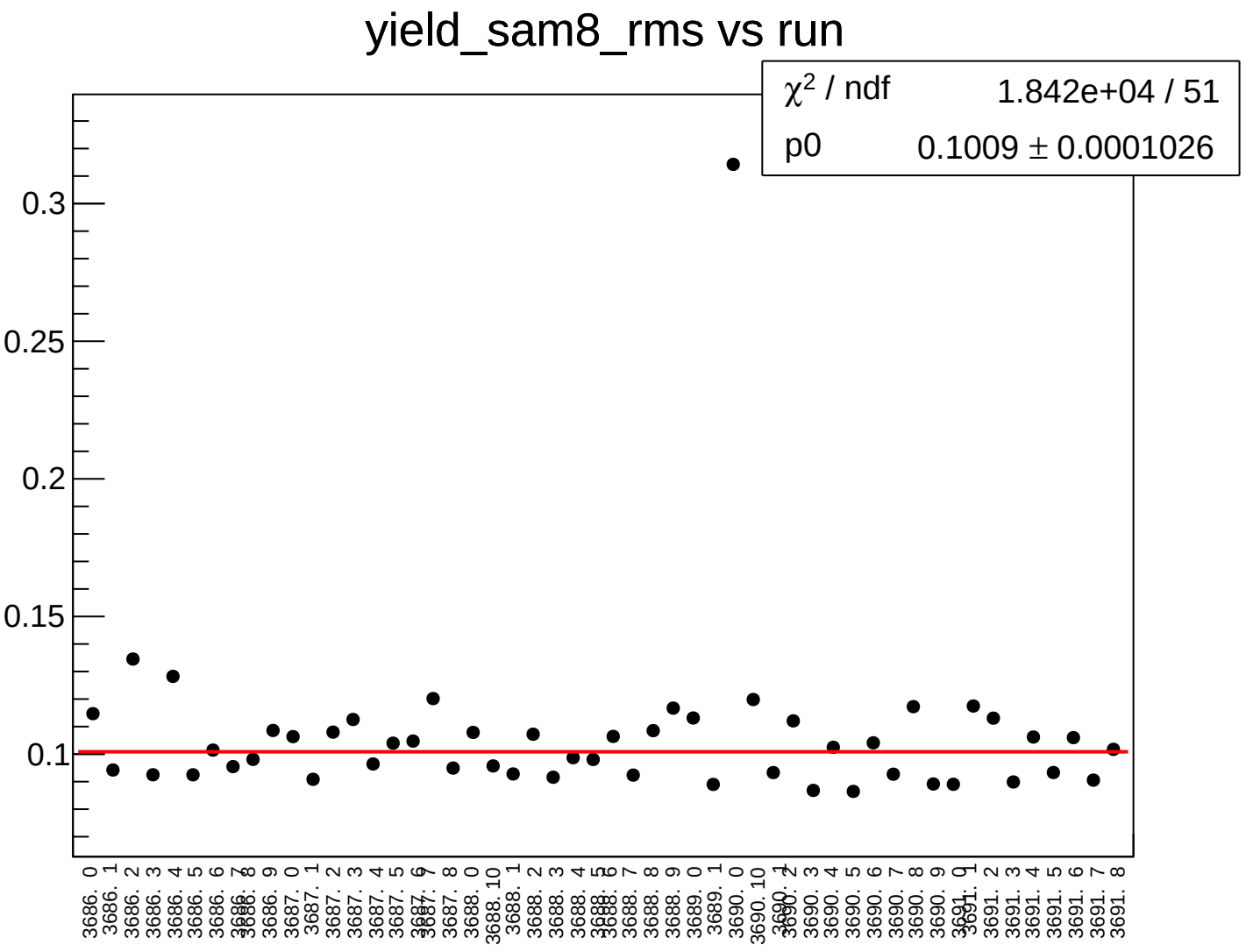

yield_sam7_mean vs run
χ² / ndf 3.678e+05 / 51
p0 36.54 ± 0.0004124
pull
Entries 52
Mean −736.4
Std Dev 769.9

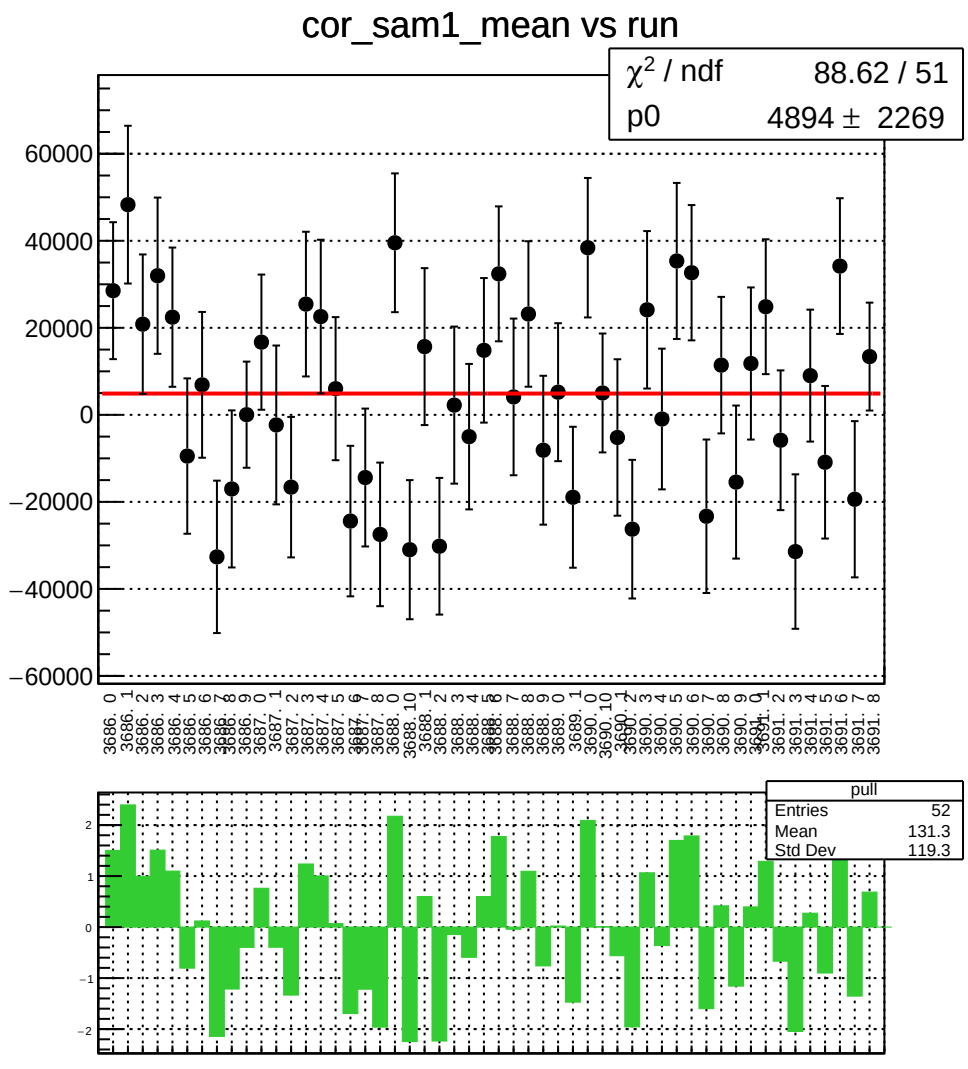

pull1D
Entries 52
Mean 0.3891
Std Dev 3.003

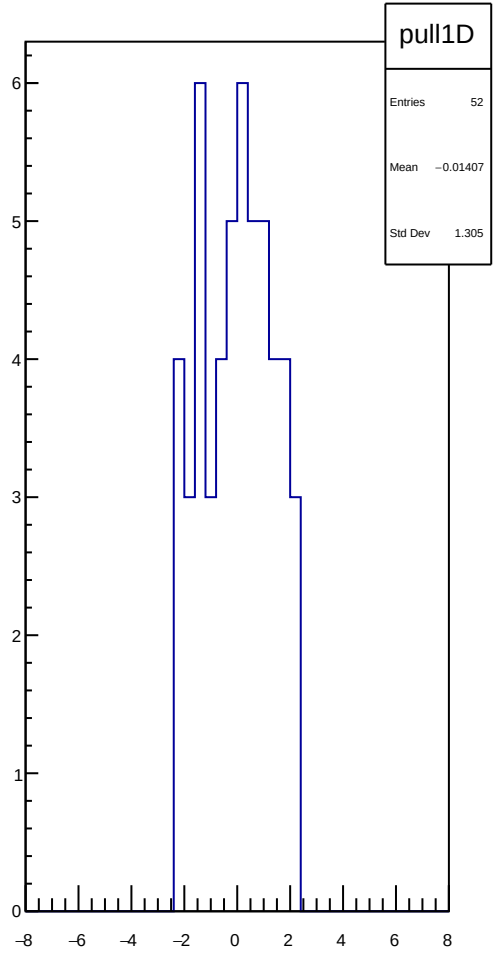

yield_sam7_rms vs run
χ² / ndf 2.293e+04 / 51
p0 0.2861 ± 0.0002916
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

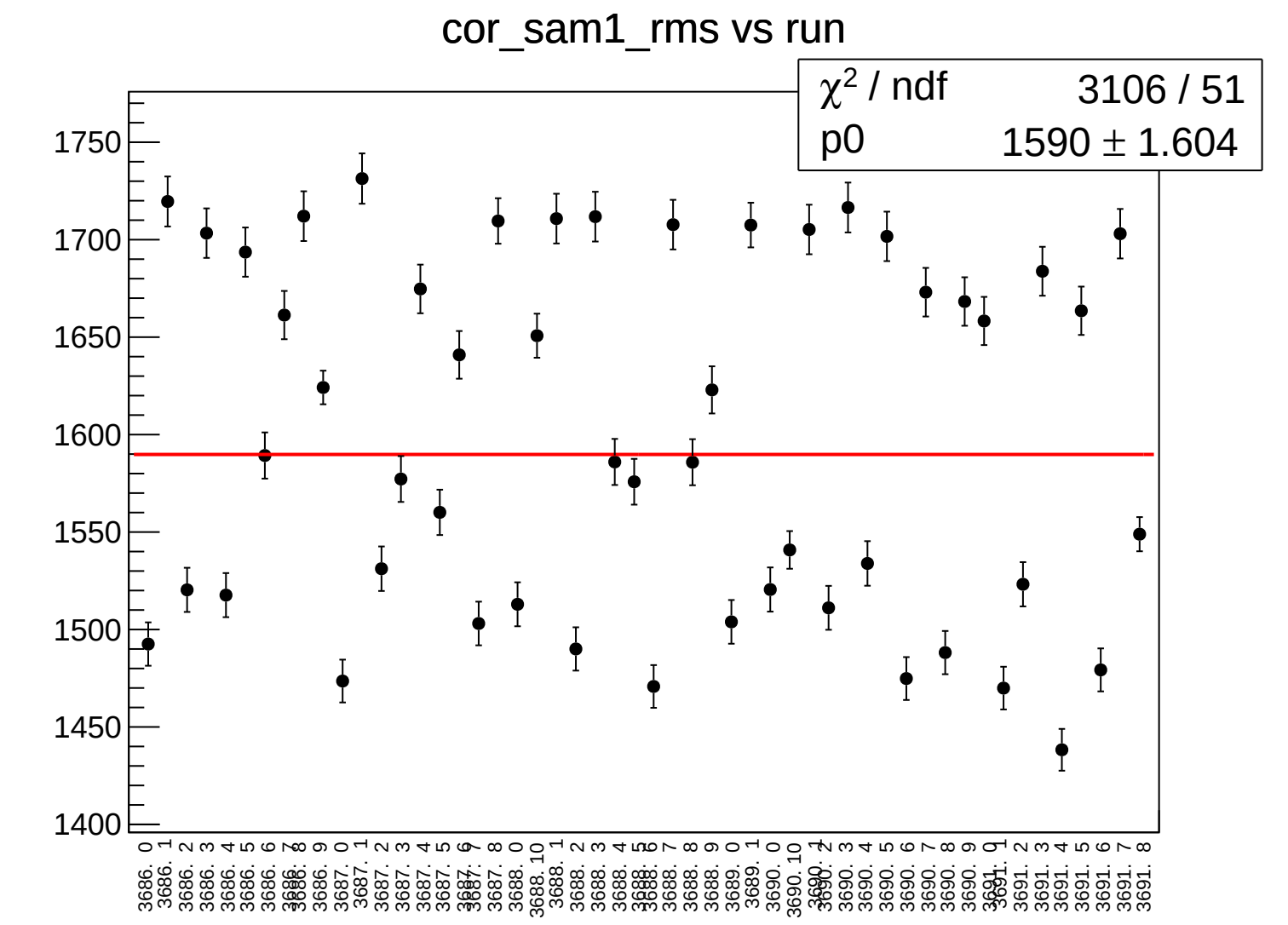

yield_sam8_mean vs run
χ² / ndf 5.054e+05 / 51
p0 14.65 ± 0.0001451
14.9
14.8
14.7
14.6
14.5
14.4
14.3
14.2
pull
Entries 52
Mean −1449
Std Dev 1480
200
150
100
50
0
−50
−100
−150
−200

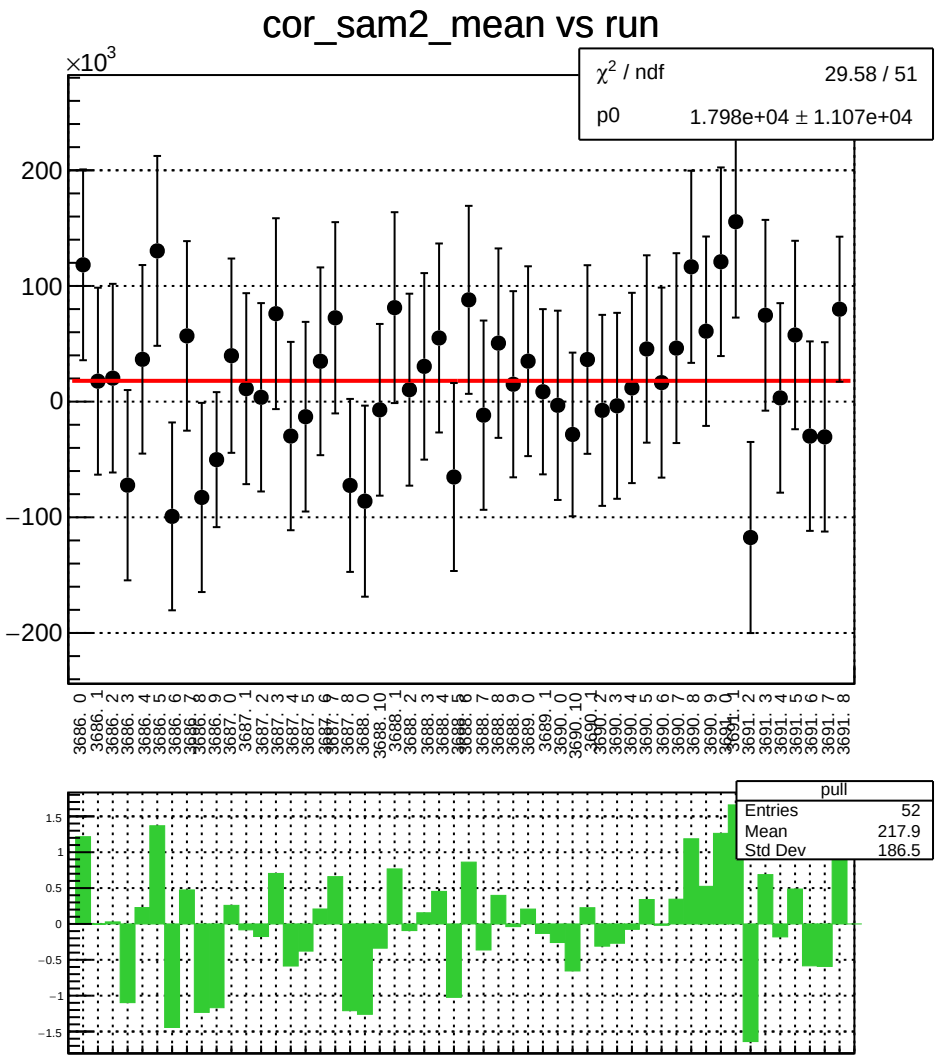

pull1D
Entries 52
Mean 1.204
Std Dev 4.573
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

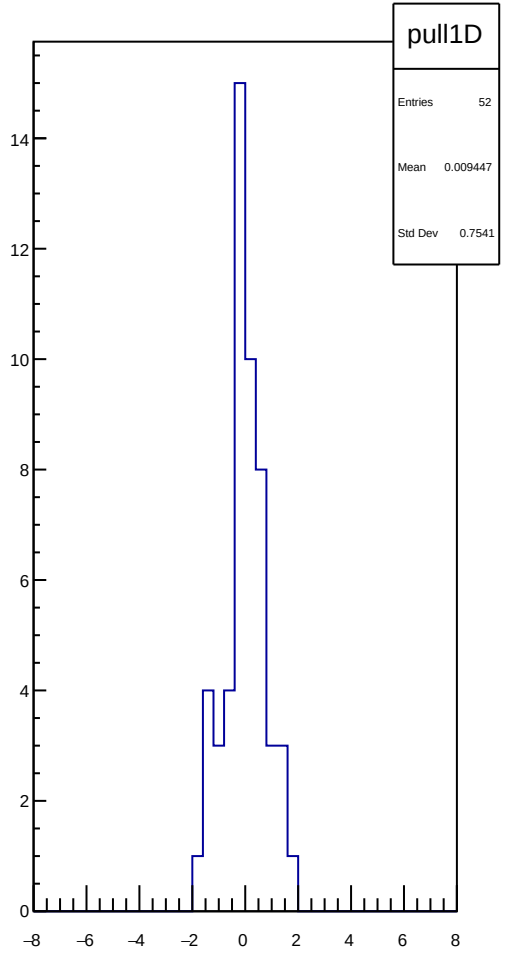

yield_sam8_rms vs run
χ² / ndf 1.842e+04 / 51
p0 0.1009 ± 0.0001026
0.3
0.25
0.2
0.15
0.1
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

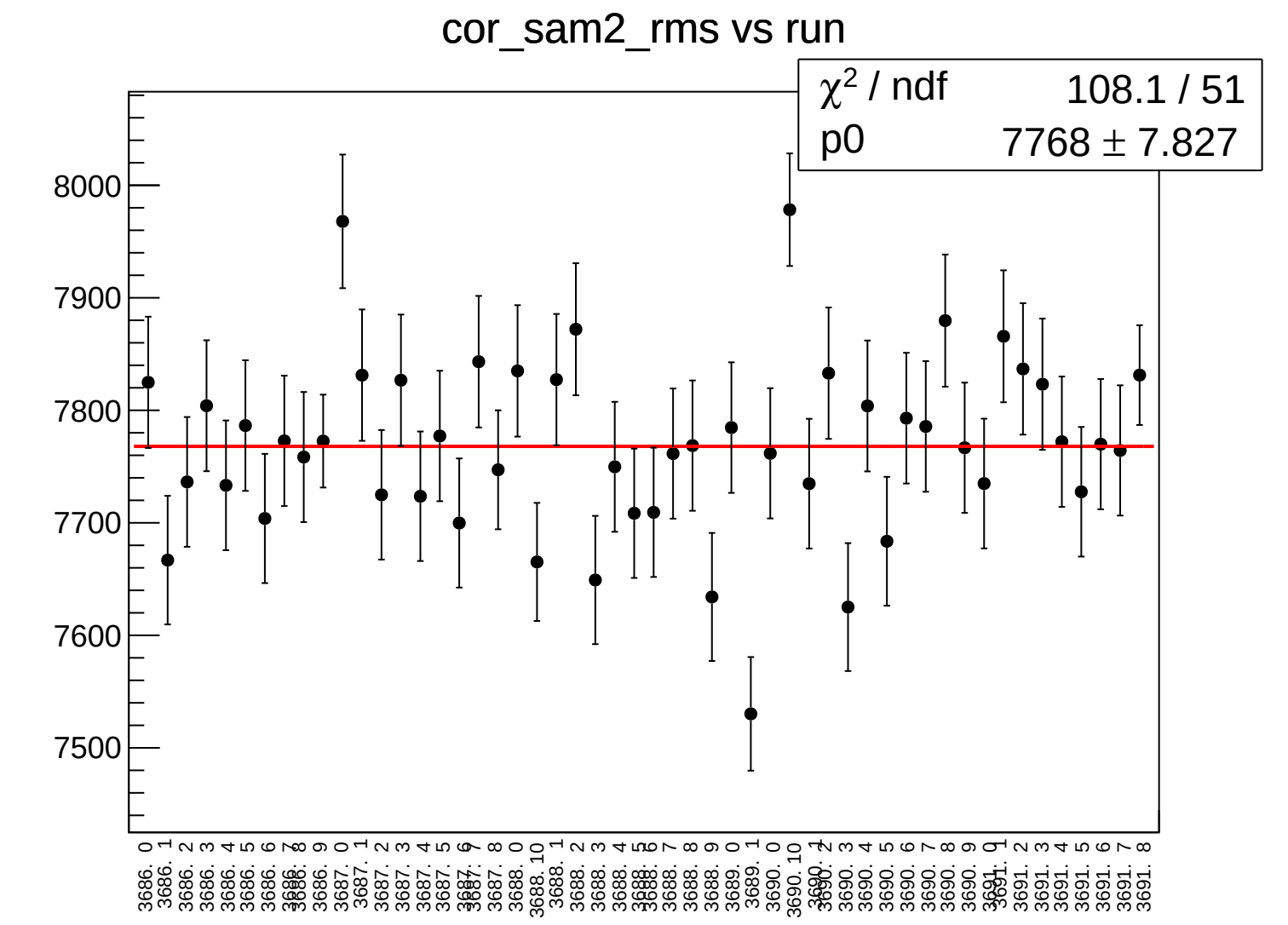

cor_sam1_mean vs run
χ^2 / ndf 88.62 / 51
p0 4894 ± 2269
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 52
Mean 131.3
Std Dev 119.3
2
1
0
−1
−2

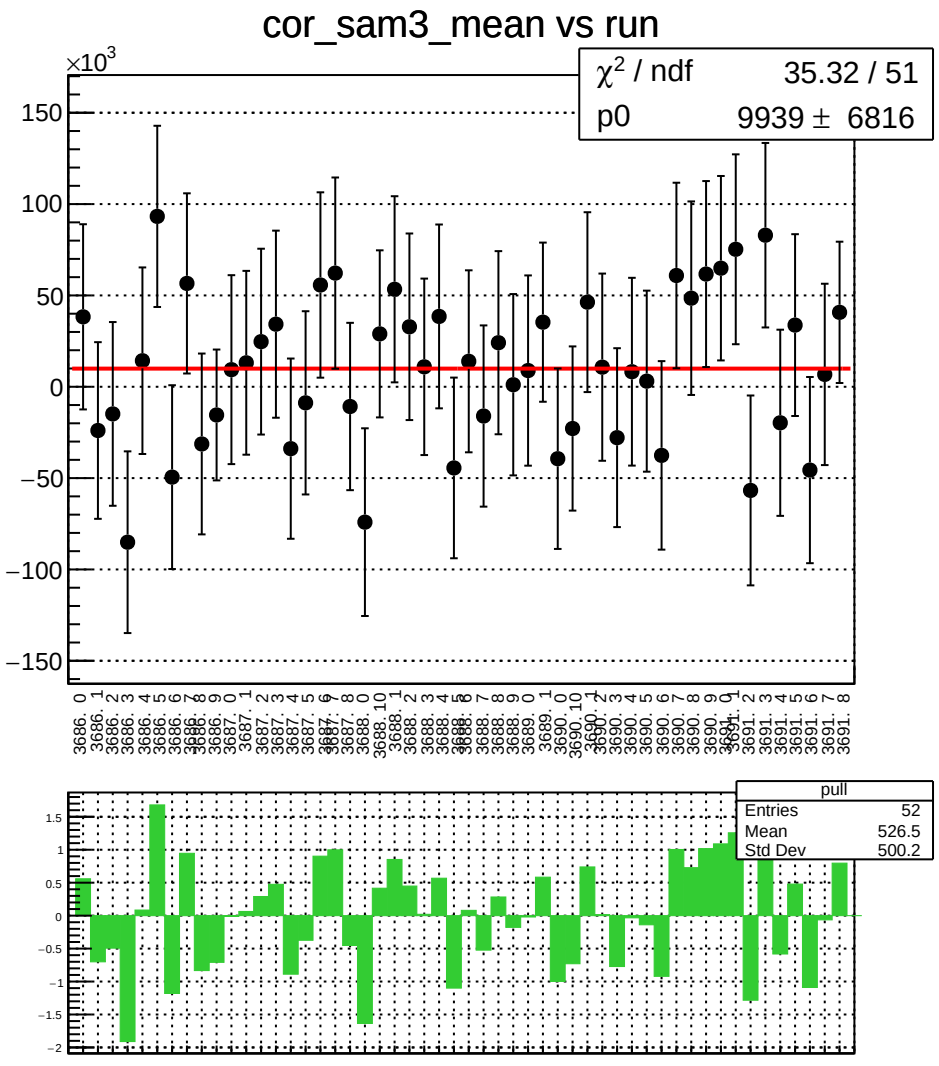

pull1D
Entries 52
Mean −0.01407
Std Dev 1.305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

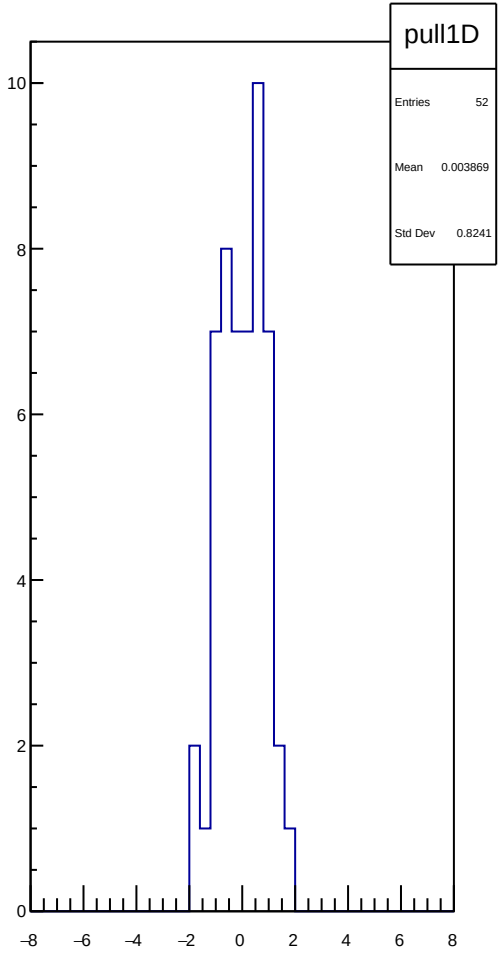

cor_sam1_rms vs run
χ² / ndf 3106 / 51
p0 1590 ± 1.604
1750
1700
1650
1600
1550
1500
1450
1400
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

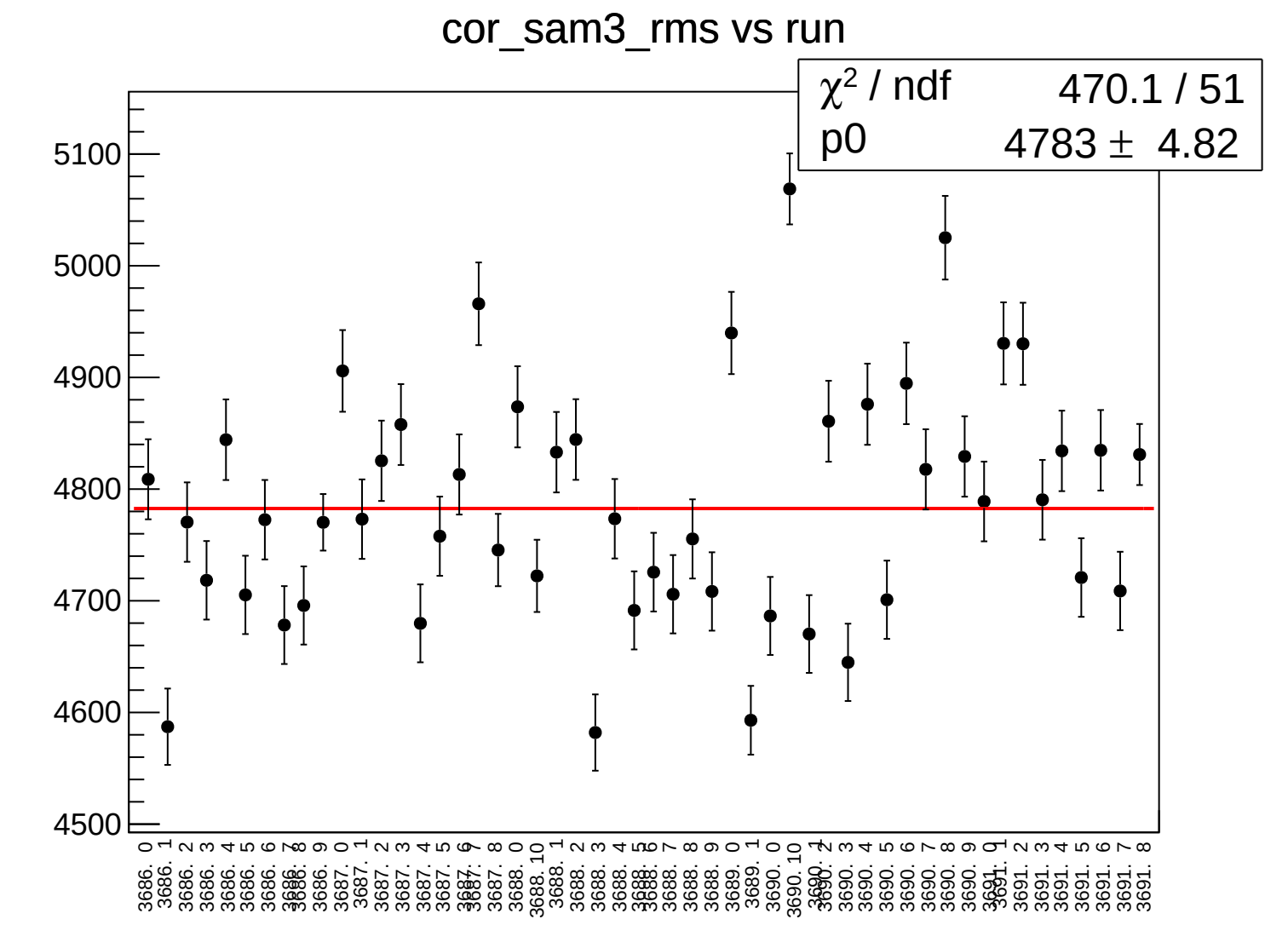

cor_sam2_mean vs run
×10^3
χ² / ndf 29.58 / 51
p0 1.798e+04 ± 1.107e+04
200
100
0
−100
−200
pull
Entries 52
Mean 217.9
Std Dev 186.5
1.5
1
0.5
0
−0.5
−1
−1.5

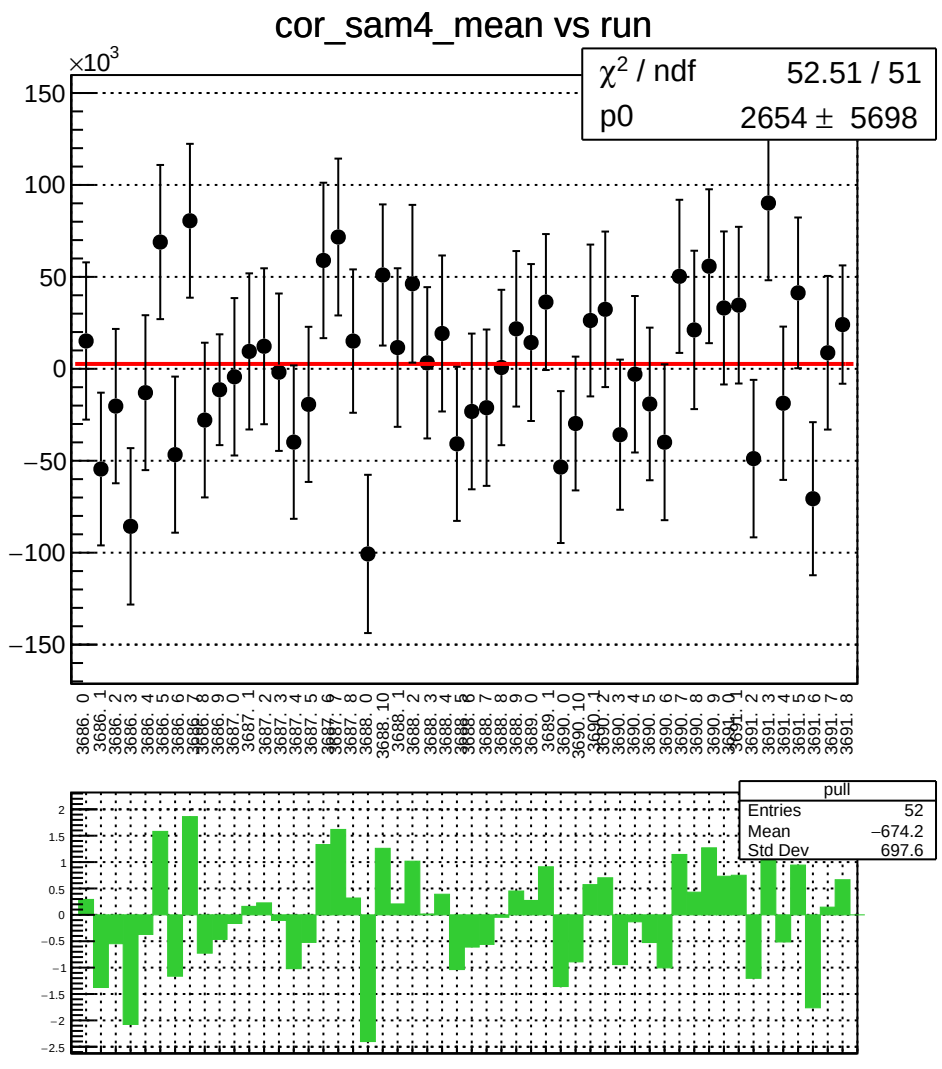

pull1D
Entries 52
Mean 0.009447
Std Dev 0.7541
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

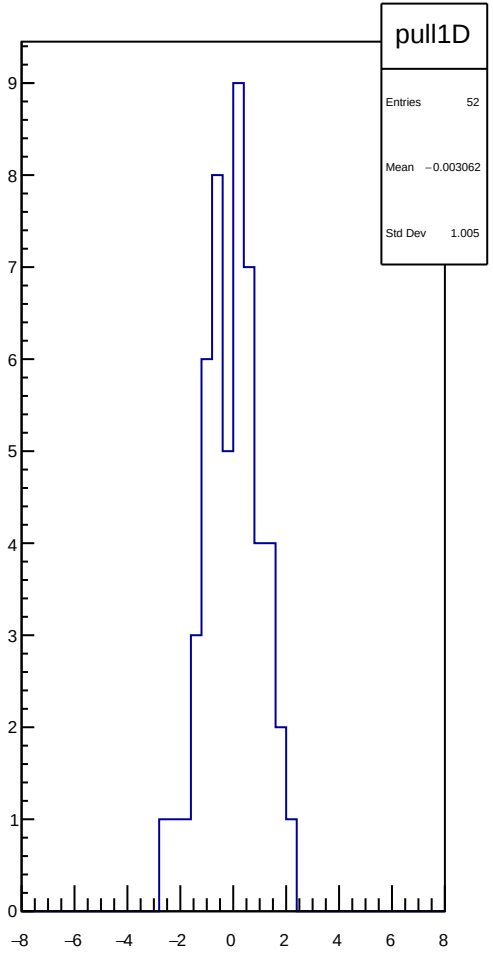

cor_sam2_rms vs run
χ² / ndf 108.1 / 51
p0 7768 ± 7.827
8000
7900
7800
7700
7600
7500
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

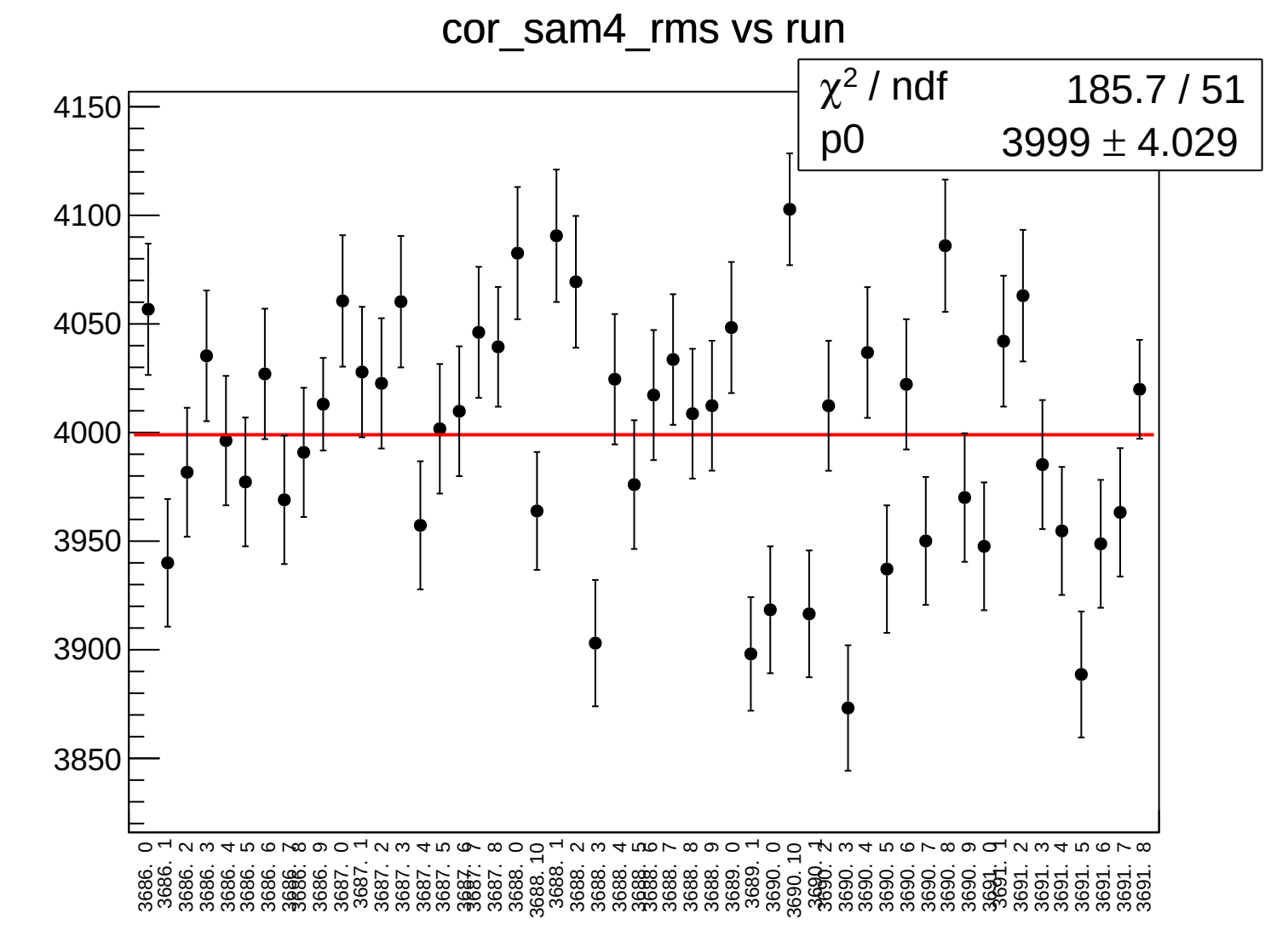

cor_sam3_mean vs run
×10^3
χ^2 / ndf 35.32 / 51
p0 9939 ± 6816
150
100
50
0
−50
−100
−150
pull
Entries 52
Mean 526.5
Std Dev 500.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

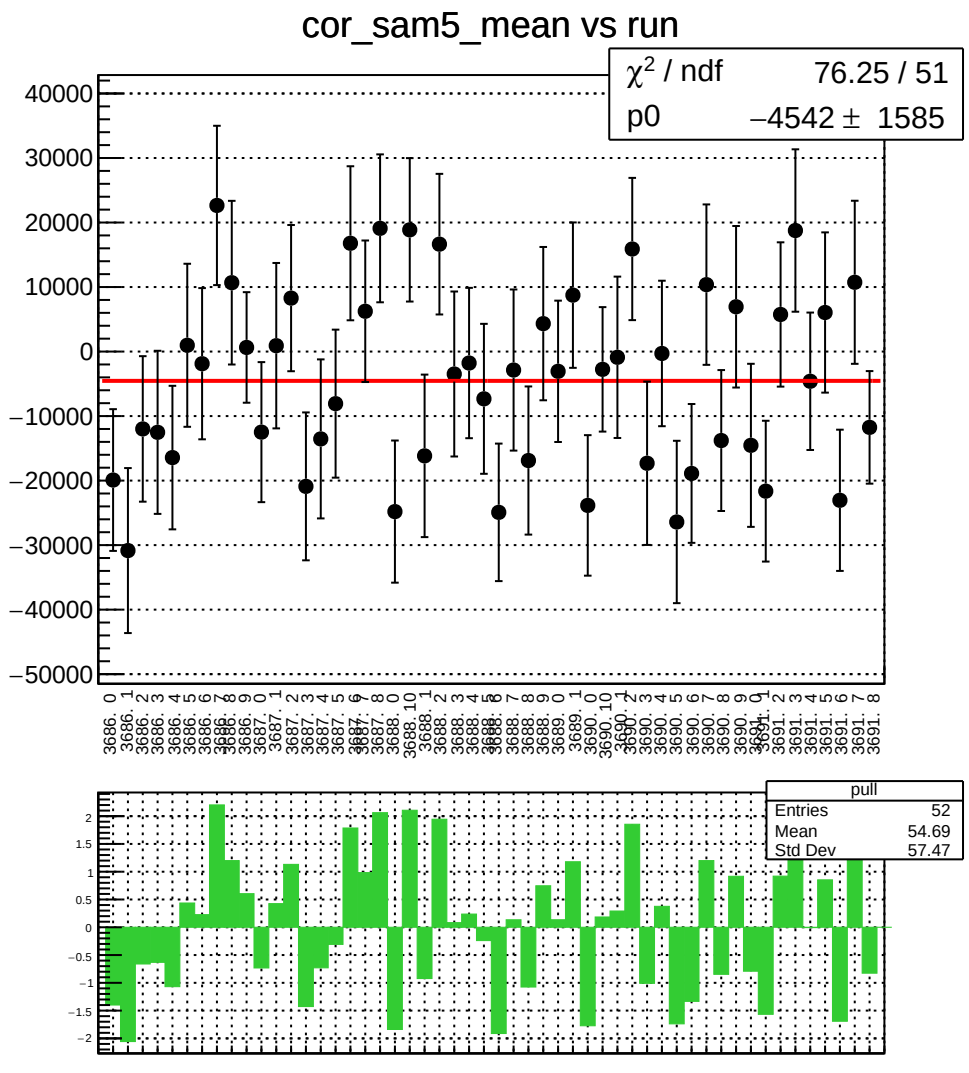

pull1D
Entries 52
Mean 0.003869
Std Dev 0.8241
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

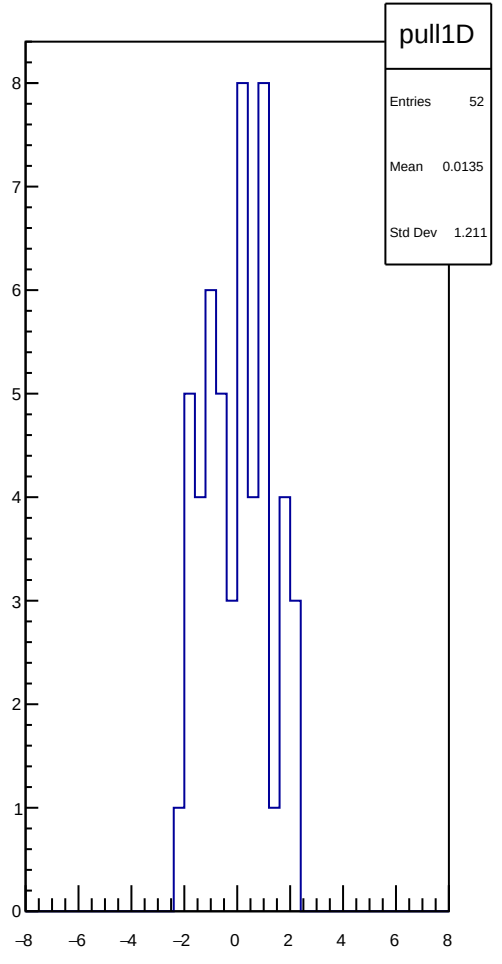

cor_sam3_rms vs run
χ² / ndf 470.1 / 51
p0 4783 ± 4.82
5100
5000
4900
4800
4700
4600
4500

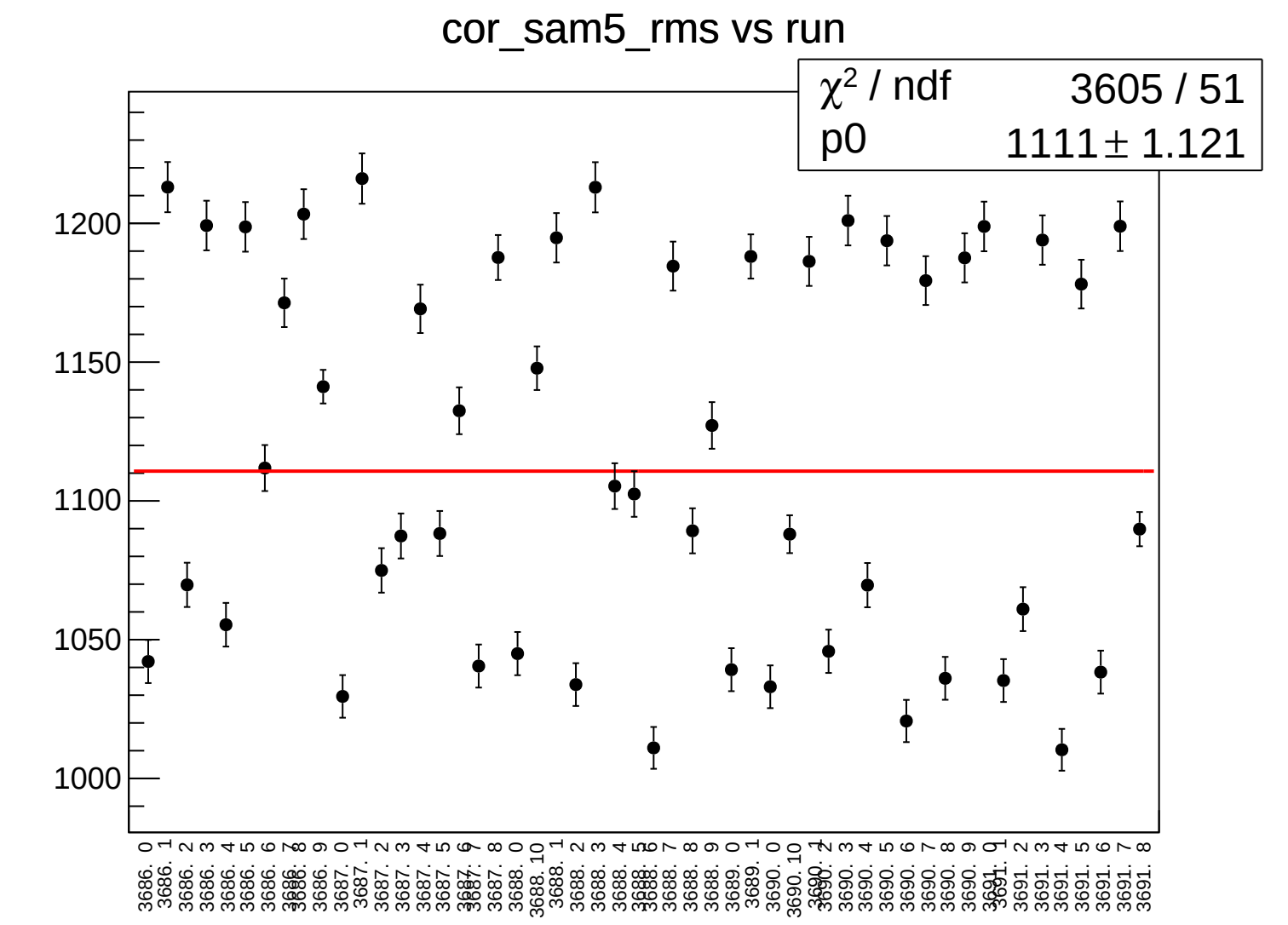

cor_sam4_mean vs run
×10^3
χ^2 / ndf 52.51 / 51
p0 2654 ± 5698
150
100
50
0
−50
−100
−150
pull
Entries 52
Mean −674.2
Std Dev 697.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 52
Mean −0.003062
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_sam4_rms vs run
χ² / ndf 185.7 / 51
p0 3999 ± 4.029
4150
4100
4050
4000
3950
3900
3850
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8


cor_sam5_mean vs run
χ² / ndf 76.25 / 51
p0 −4542 ± 1585
pull
Entries 52
Mean 54.69
Std Dev 57.47


pull1D
Entries 52
Mean 0.0135
Std Dev 1.211


cor_sam5_rms vs run
χ² / ndf 3605 / 51
p0 1111 ± 1.121
1200
1150
1100
1050
1000
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
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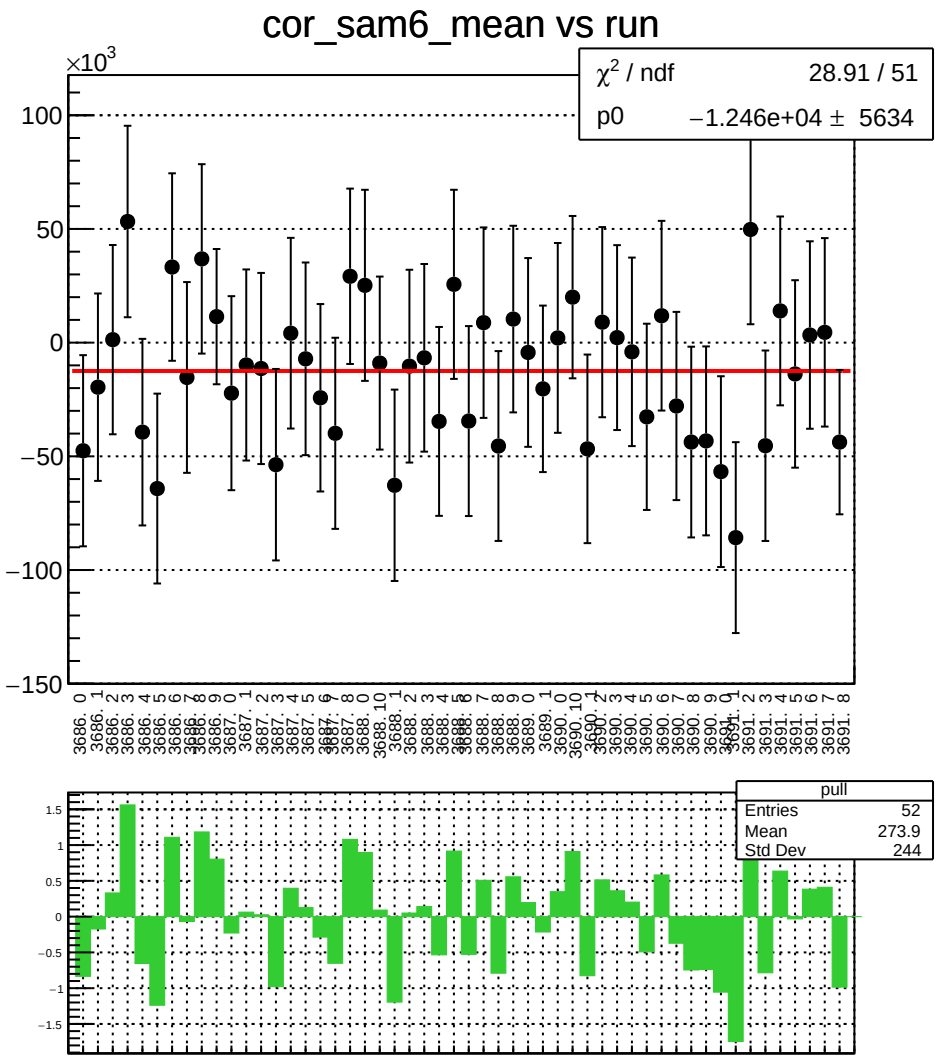
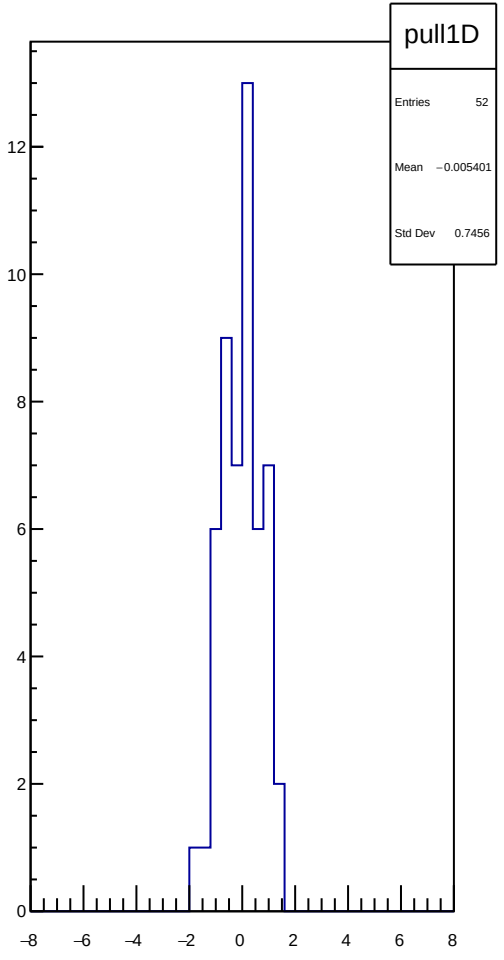
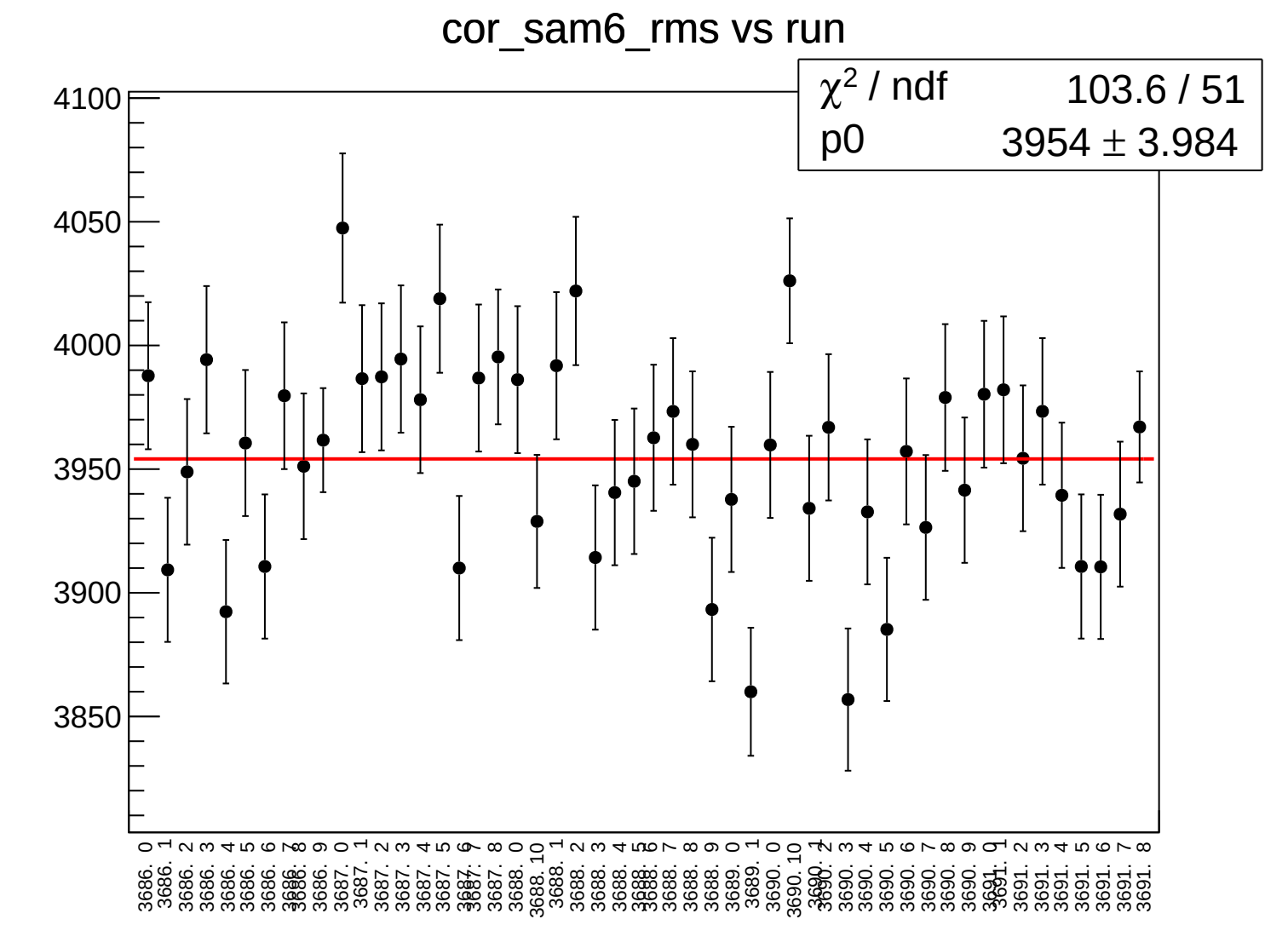

cor_sam6_mean vs run
×10^3
χ² / ndf 28.91 / 51
p0 −1.246e+04 ± 5634
100
50
0
−50
−100
−150
pull
Entries 52
Mean 273.9
Std Dev 244
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 52
Mean −0.005401
Std Dev 0.7456
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_sam6_rms vs run
χ² / ndf 103.6 / 51
p0 3954 ± 3.984
4100
4050
4000
3950
3900
3850
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
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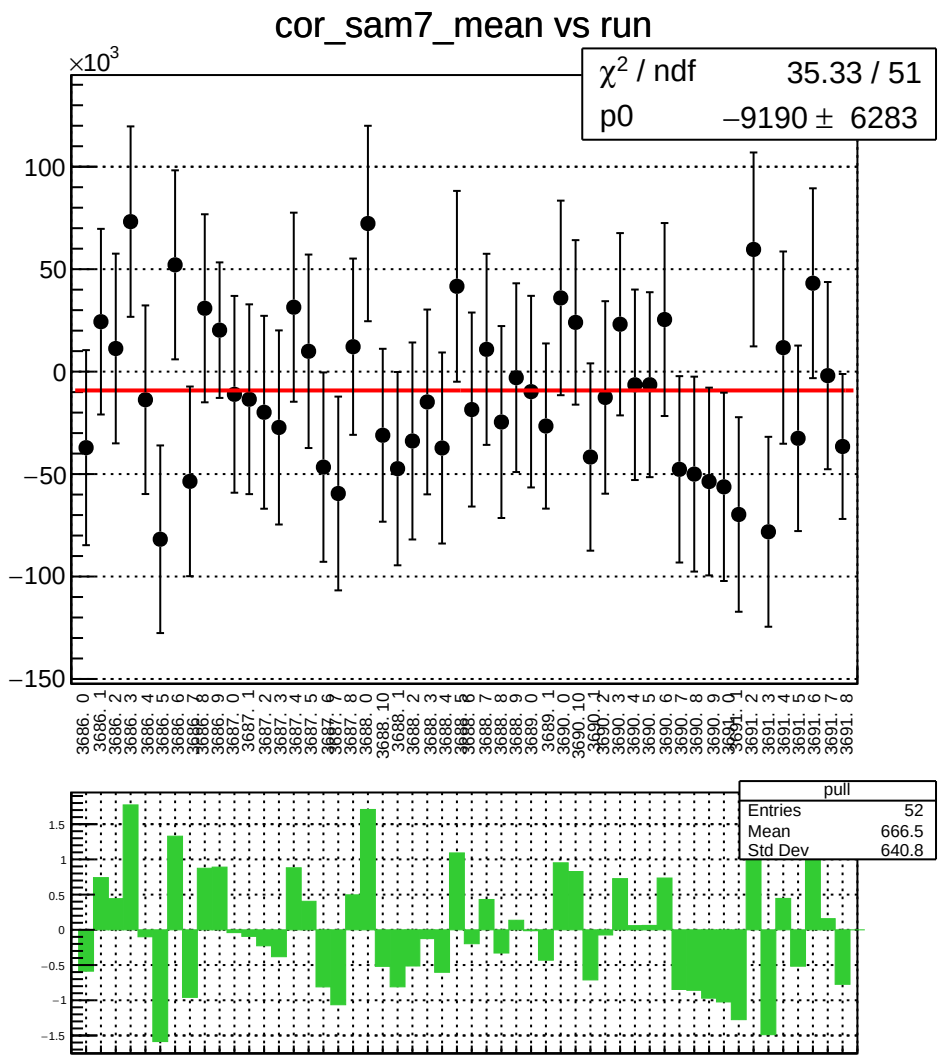
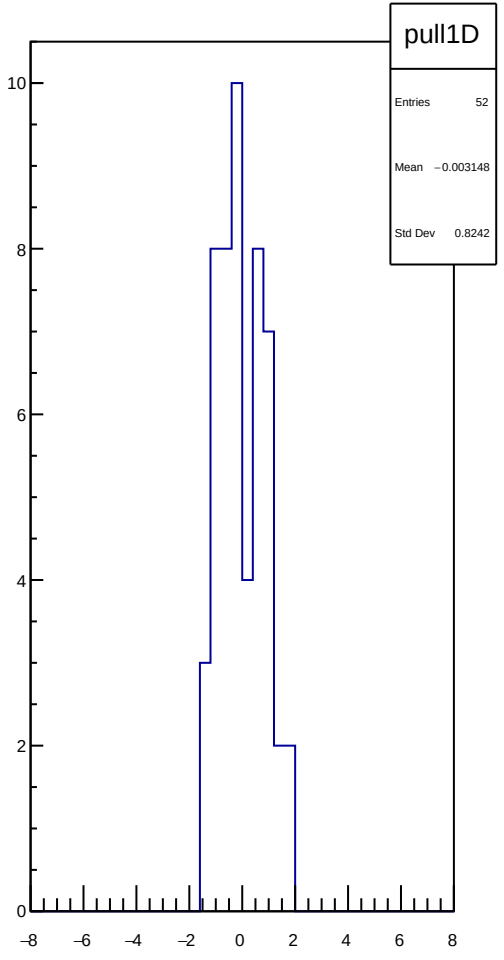
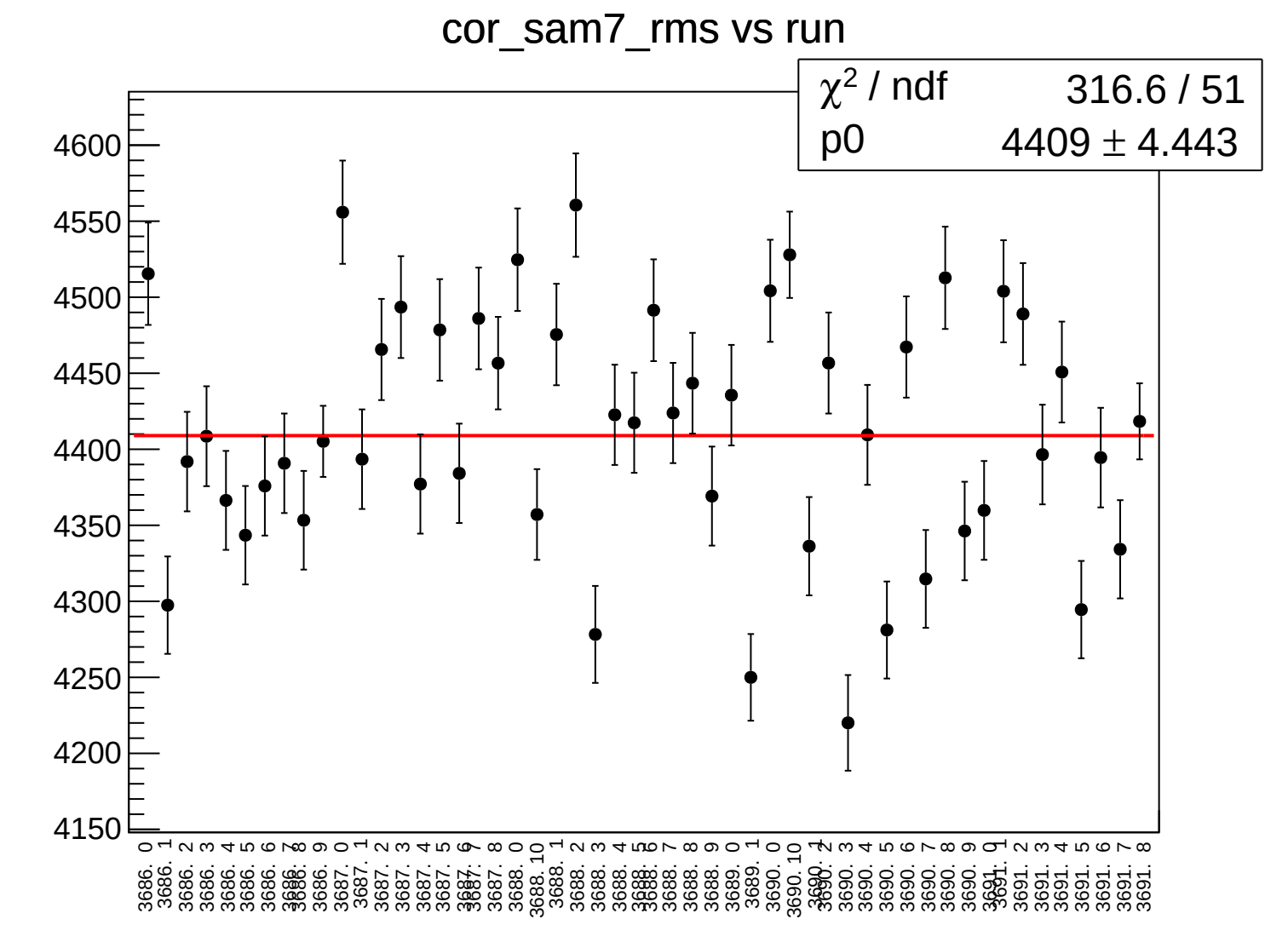
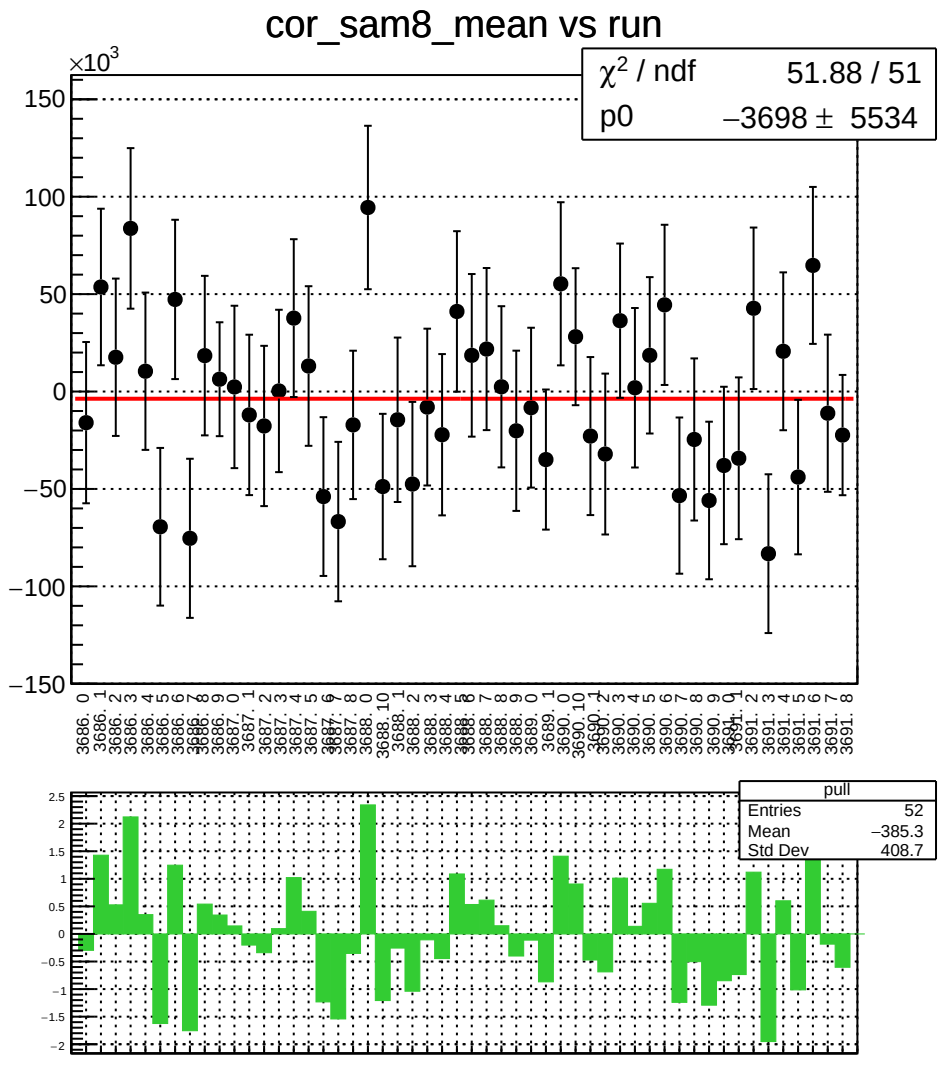
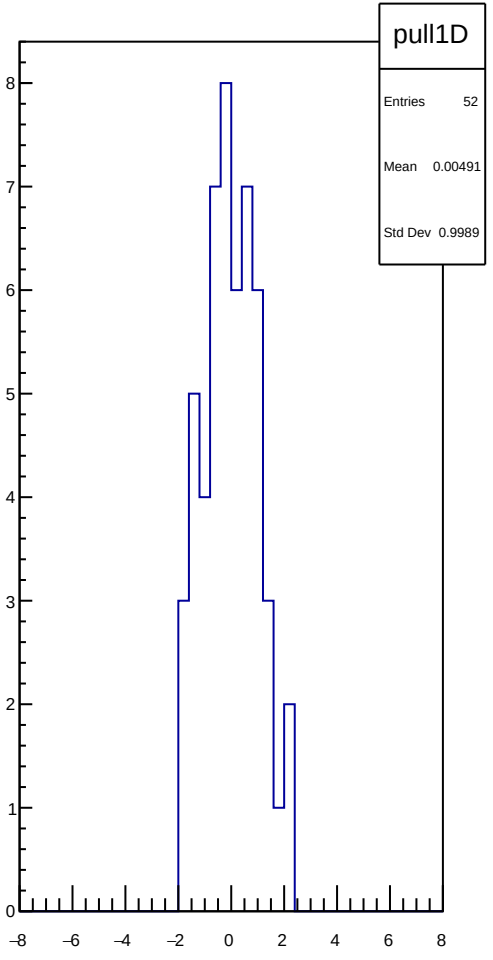
3691. 8

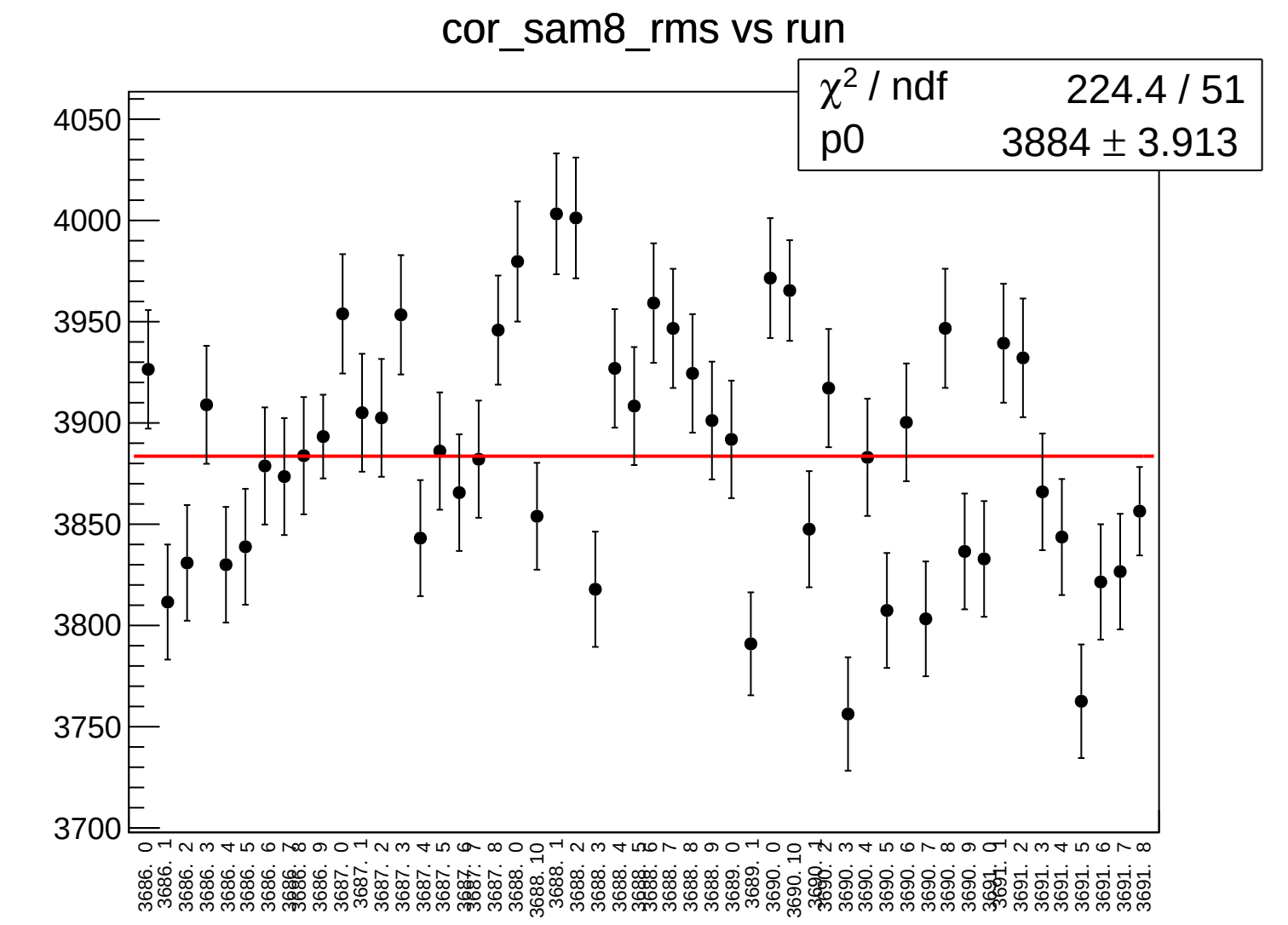

cor_sam7_mean vs run
×10^3
χ² / ndf 35.33 / 51
p0 −9190 ± 6283
100
50
0
−50
−100
−150
pull
Entries 52
Mean 666.5
Std Dev 640.8
1.5
1
0.5
0
−0.5
−1
−1.5

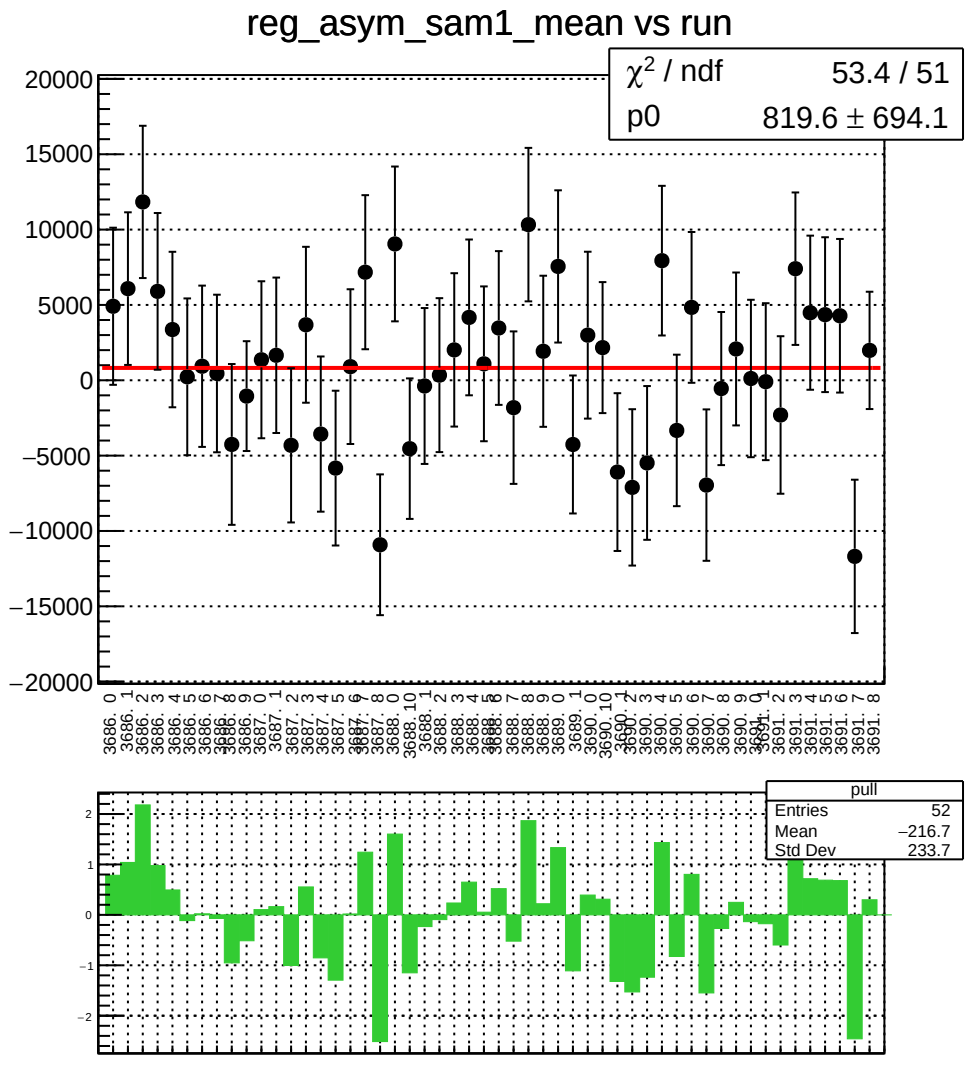

pull1D
Entries 52
Mean −0.003148
Std Dev 0.8242
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

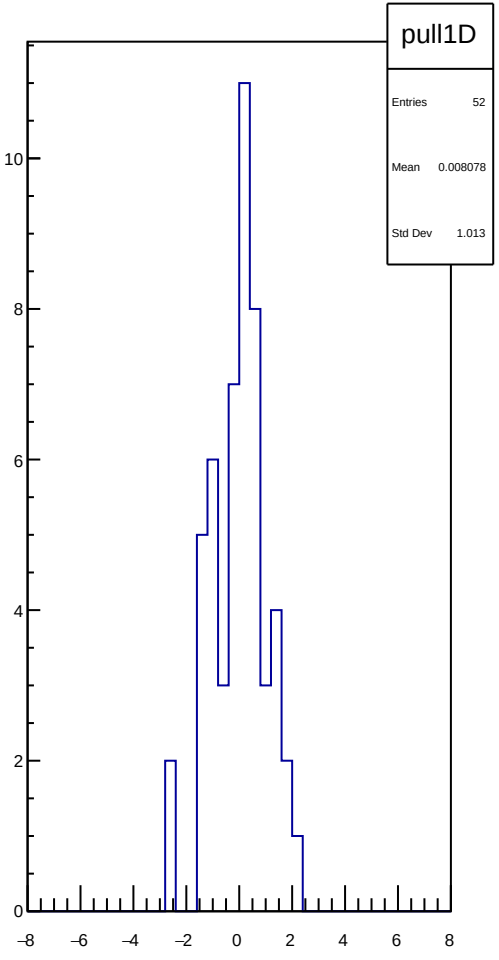

cor_sam7_rms vs run
χ² / ndf 316.6 / 51
p0 4409 ± 4.443
4600
4550
4500
4450
4400
4350
4300
4250
4200
4150
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

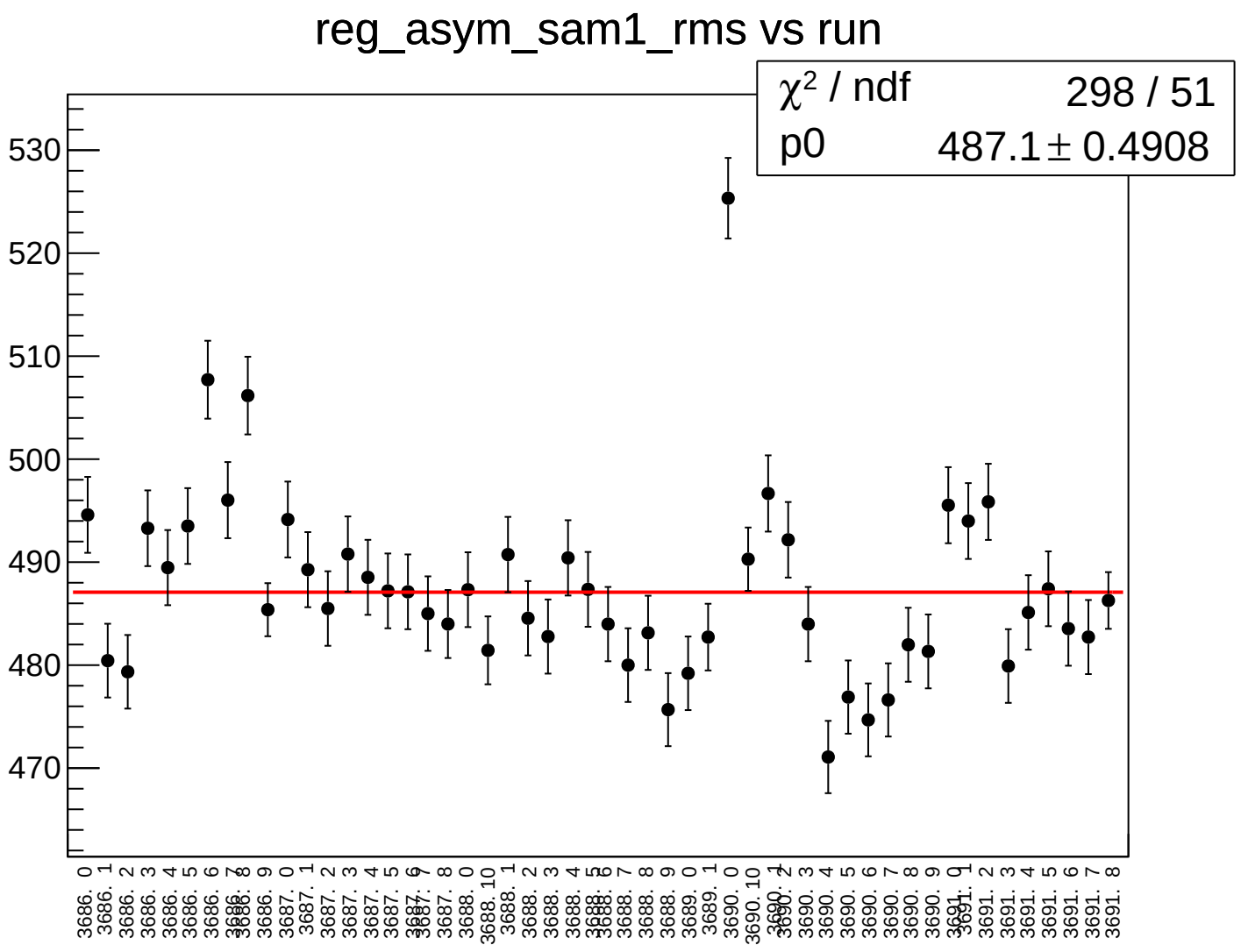

cor_sam8_mean vs run
×10^3
χ² / ndf 51.88 / 51
p0 −3698 ± 5534
150
100
50
0
−50
−100
−150
pull
Entries 52
Mean −385.3
Std Dev 408.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 52
Mean 0.00491
Std Dev 0.9989
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_sam8_rms vs run
χ² / ndf 224.4 / 51
p0 3884 ± 3.913
4050
4000
3950
3900
3850
3800
3750
3700


reg_asym_sam1_mean vs run
χ² / ndf 53.4 / 51
p0 819.6 ± 694.1
pull
Entries 52
Mean −216.7
Std Dev 233.7


pull1D
Entries 52
Mean 0.008078
Std Dev 1.013


reg_asym_sam1_rms vs run
χ² / ndf 298 / 51
p0 487.1 ± 0.4908
530
520
510
500
490
480
470
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
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3691. 5
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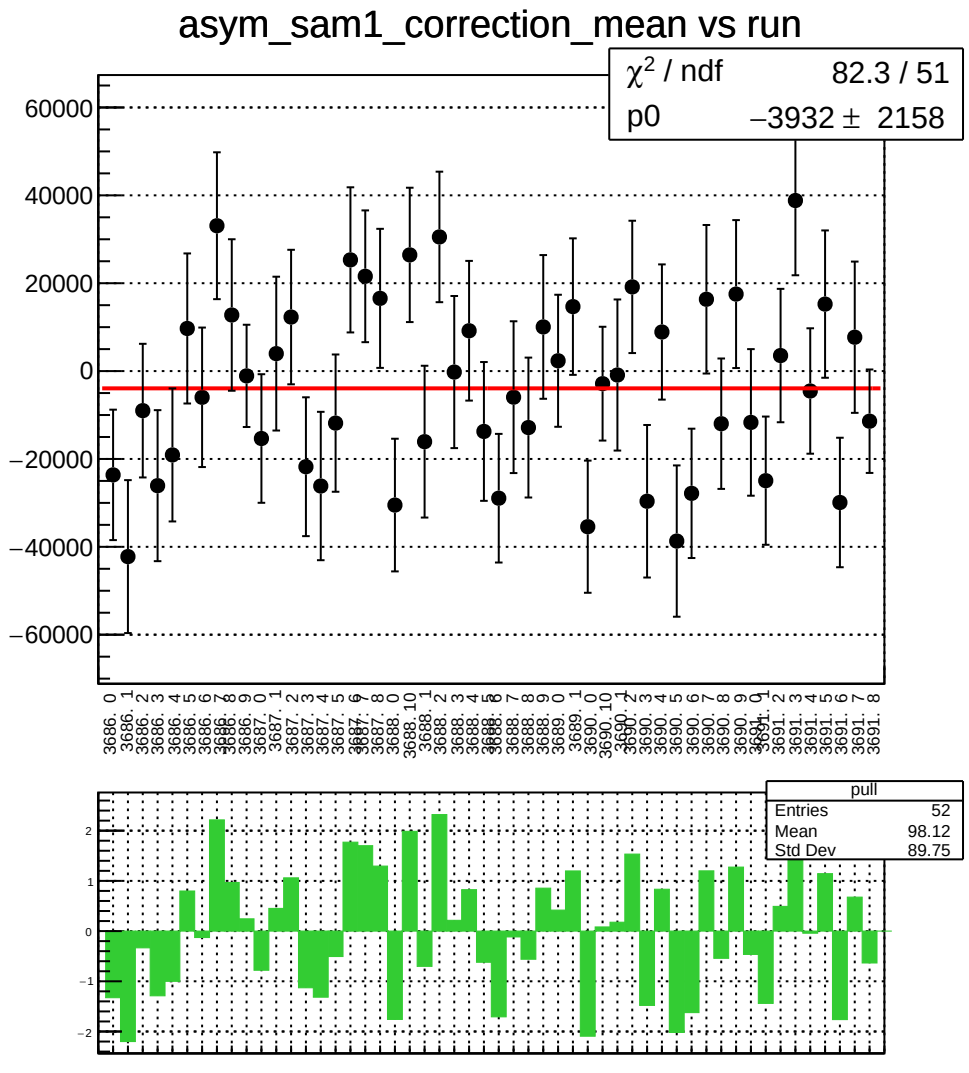
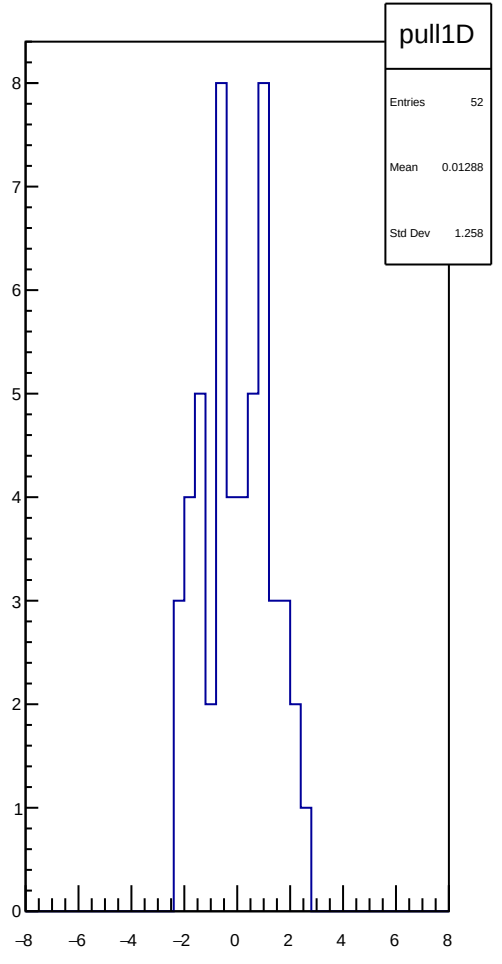
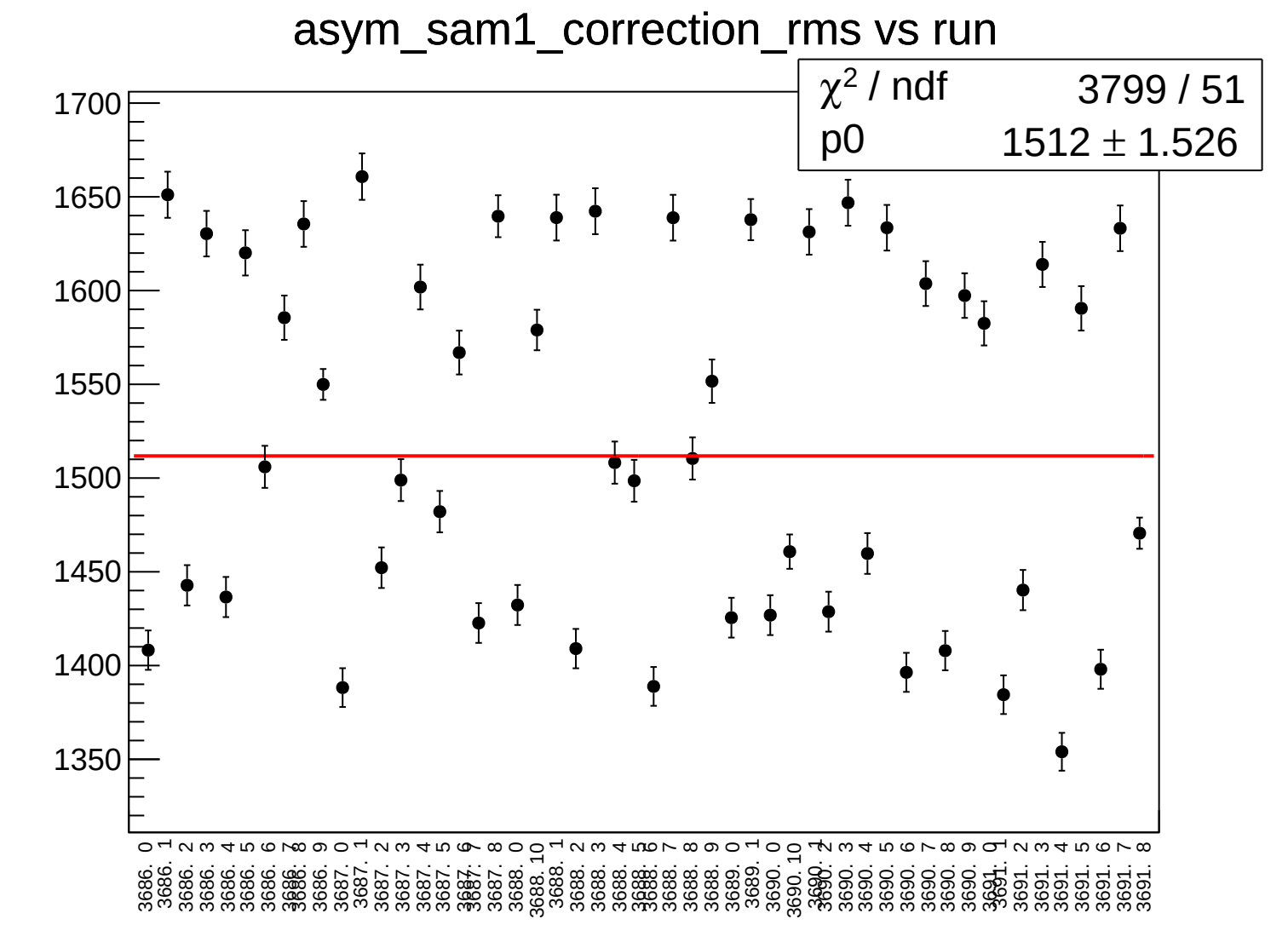
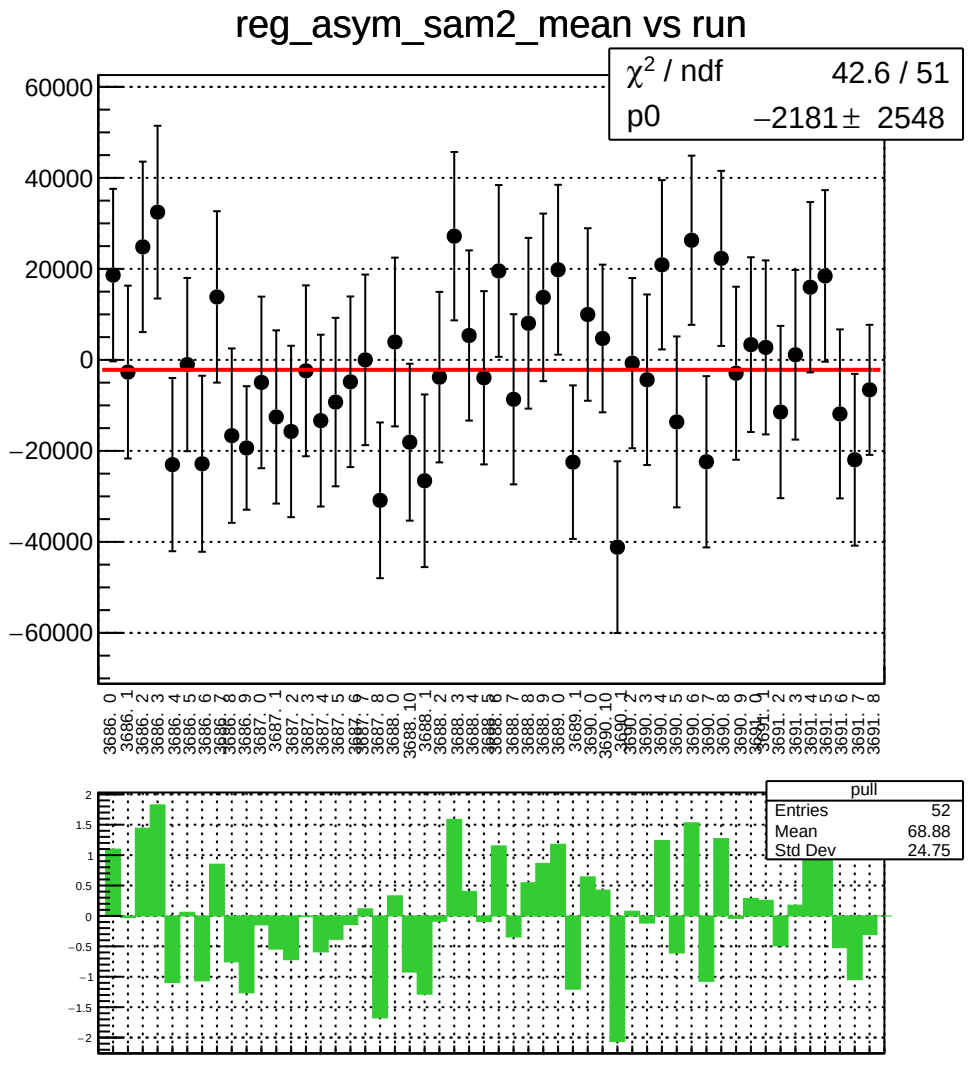
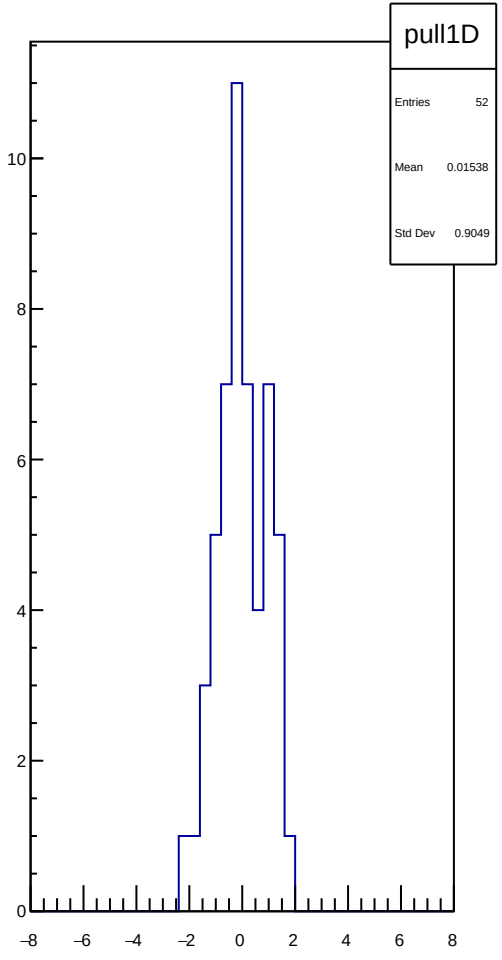
3691. 7
3691. 8

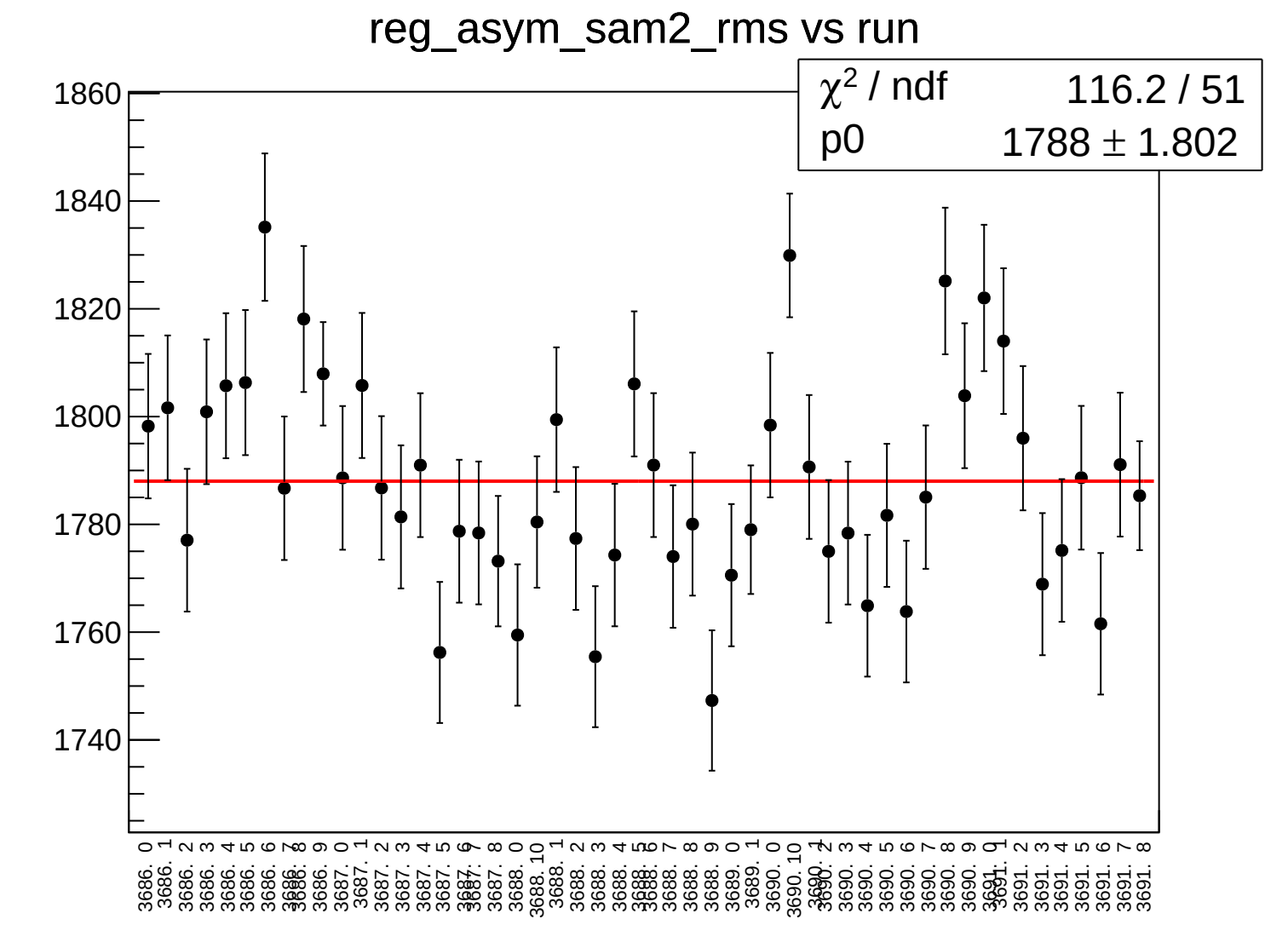

asym_sam1_correction_mean vs run
χ² / ndf 82.3 / 51
p0 −3932 ± 2158
pull
Entries 52
Mean 98.12
Std Dev 89.75

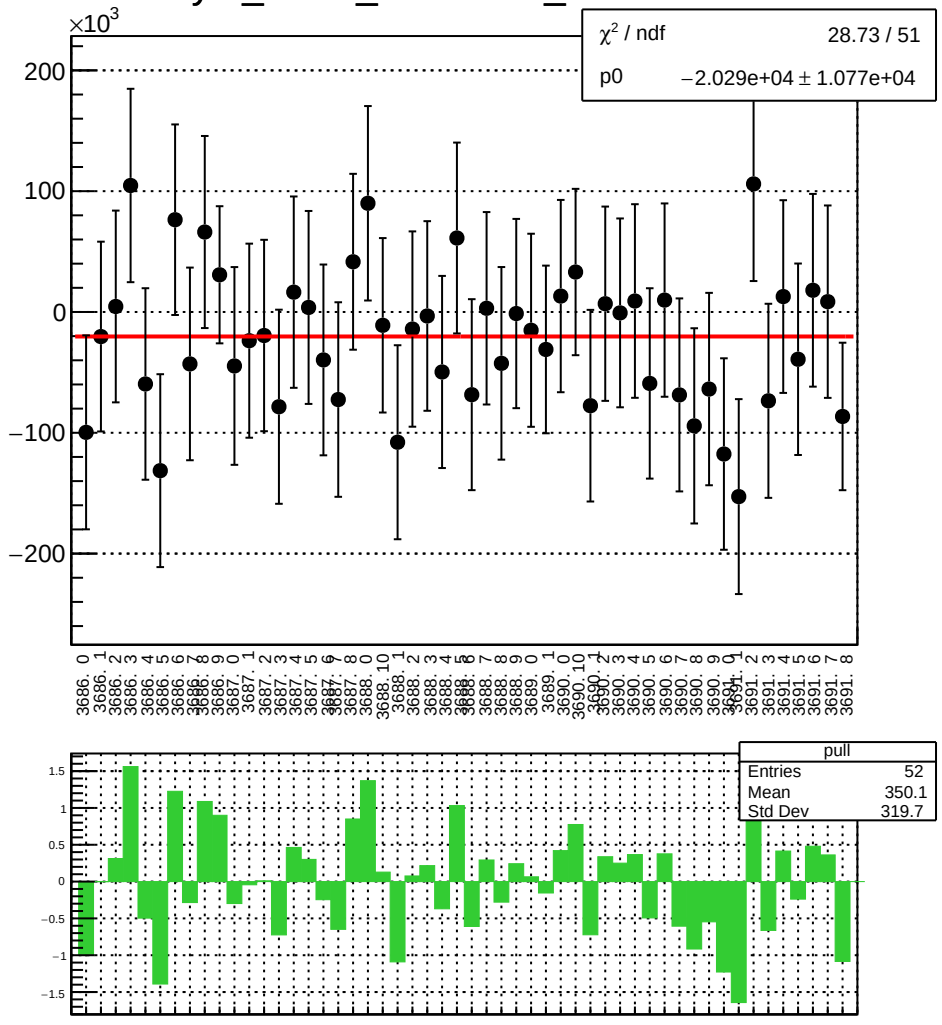

pull1D
Entries 52
Mean 0.01288
Std Dev 1.258

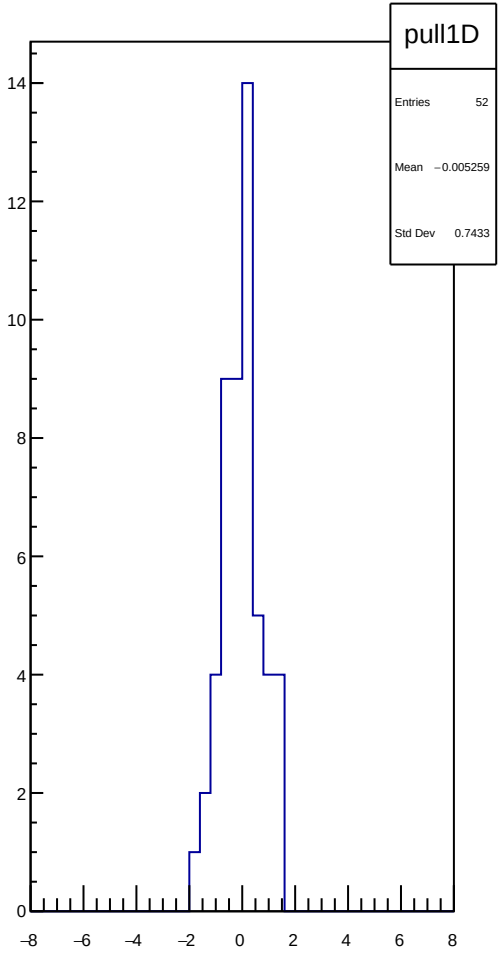

asym_sam1_correction_rms vs run
χ² / ndf 3799 / 51
p0 1512 ± 1.526
1700
1650
1600
1550
1500
1450
1400
1350
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

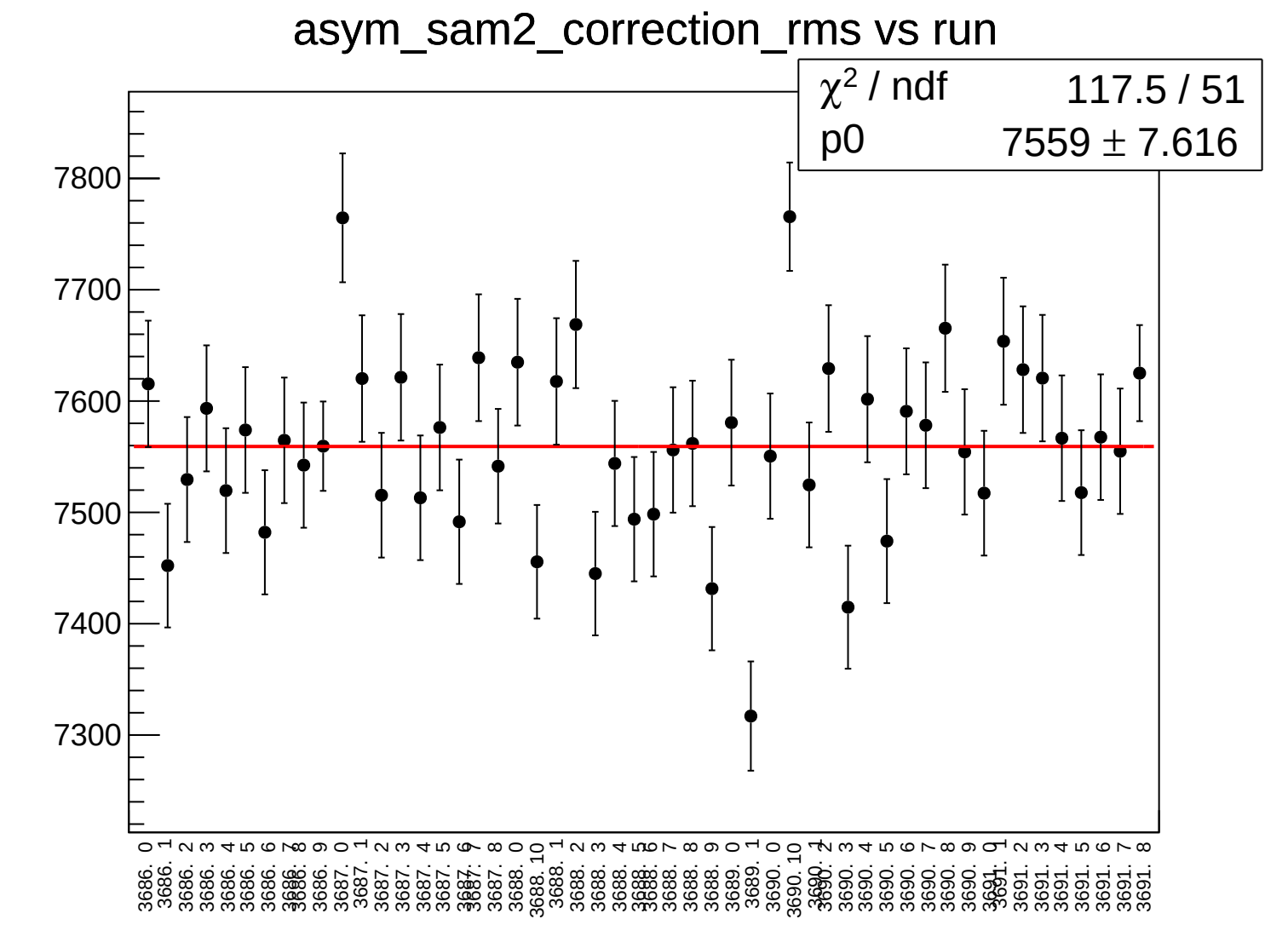

reg_asym_sam2_mean vs run
χ² / ndf 42.6 / 51
p0 −2181 ± 2548
pull
Entries 52
Mean 68.88
Std Dev 24.75

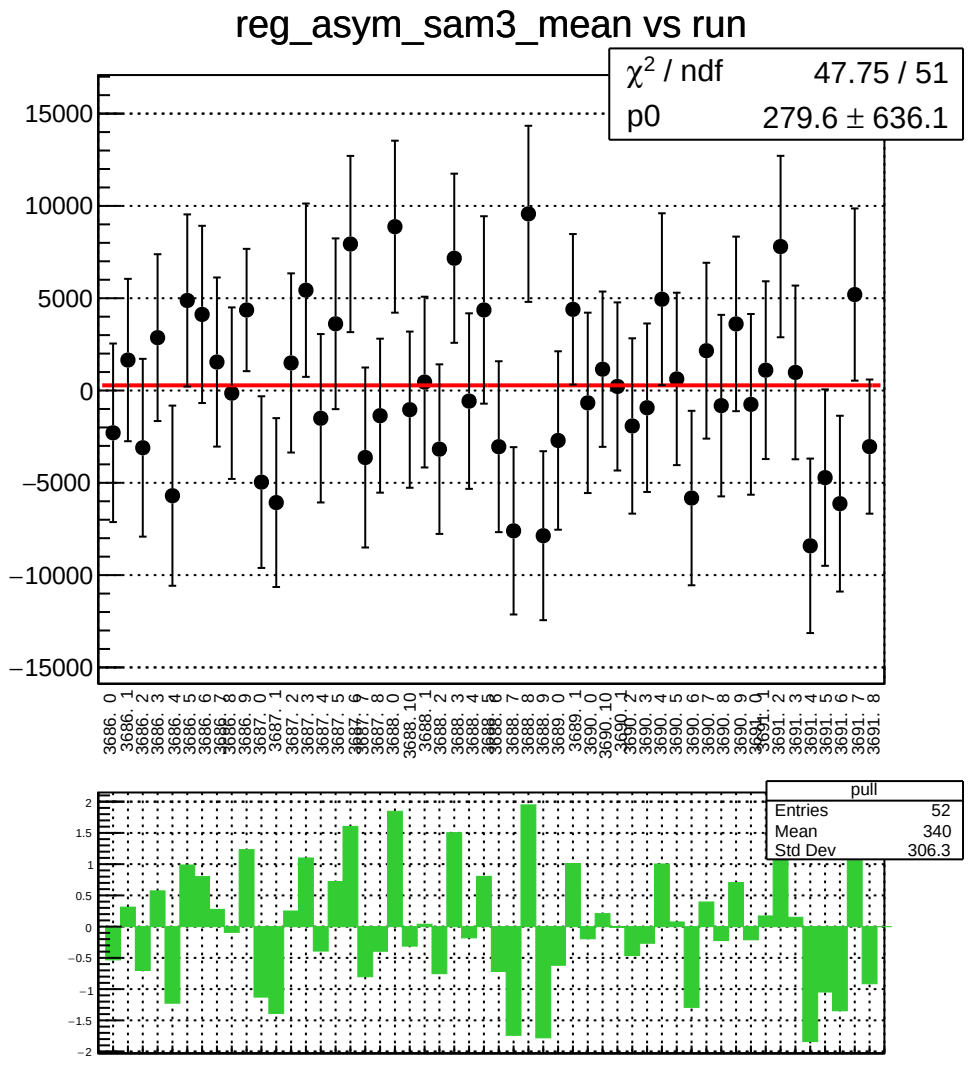

pull1D
Entries 52
Mean 0.01538
Std Dev 0.9049

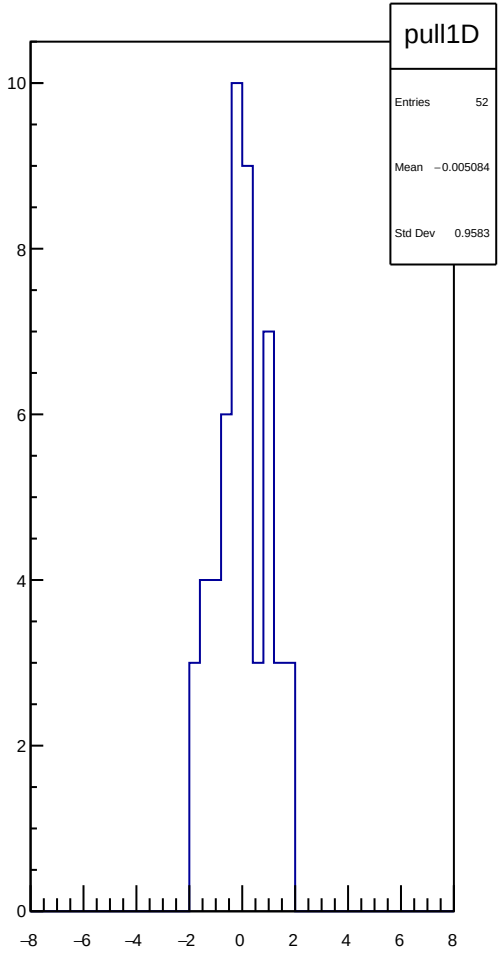

reg_asym_sam2_rms vs run
χ² / ndf 116.2 / 51
p0 1788 ± 1.802
1860
1840
1820
1800
1780
1760
1740
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

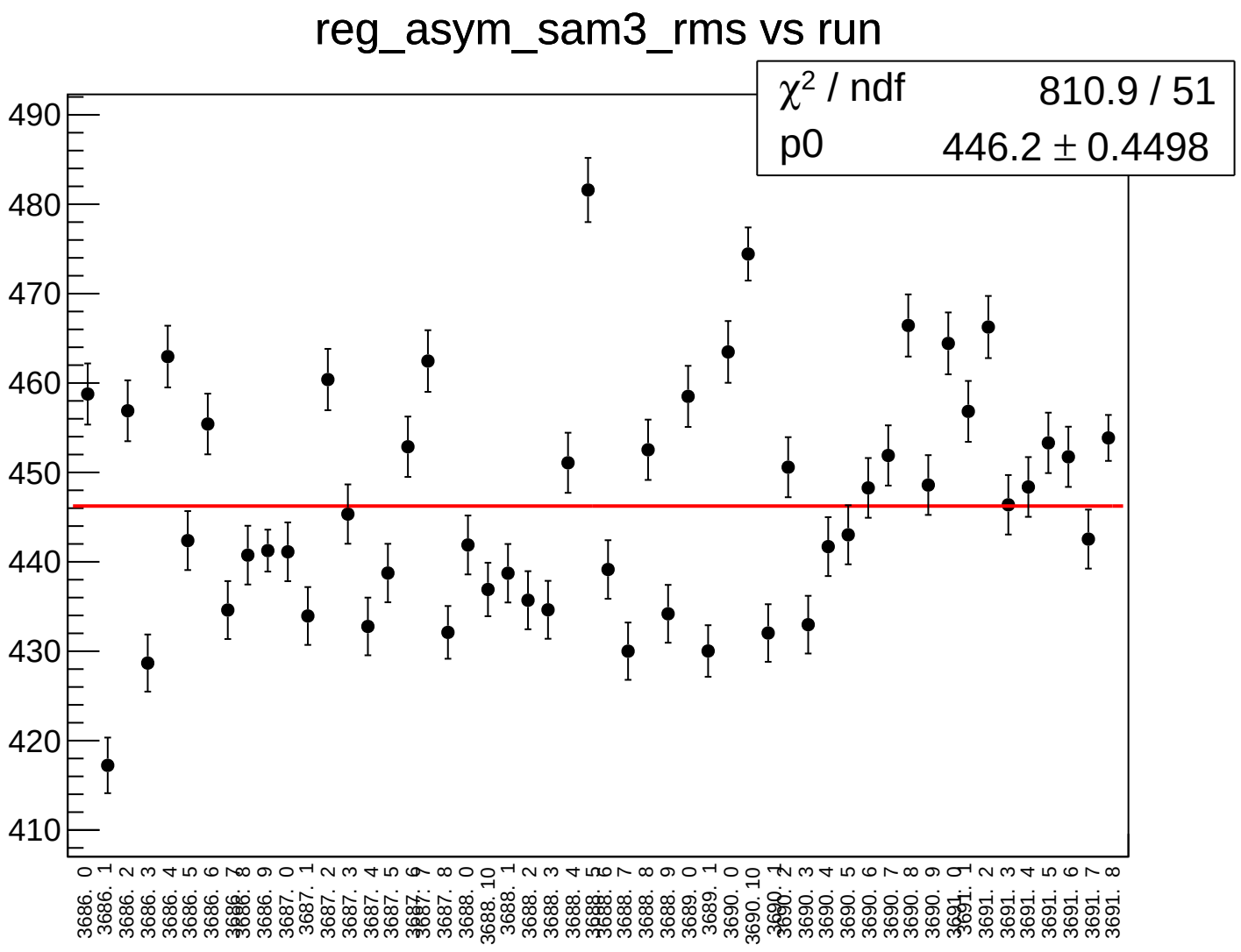

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 28.73 / 51
p0 −2.029e+04 ± 1.077e+04
pull
Entries 52
Mean 350.1
Std Dev 319.7

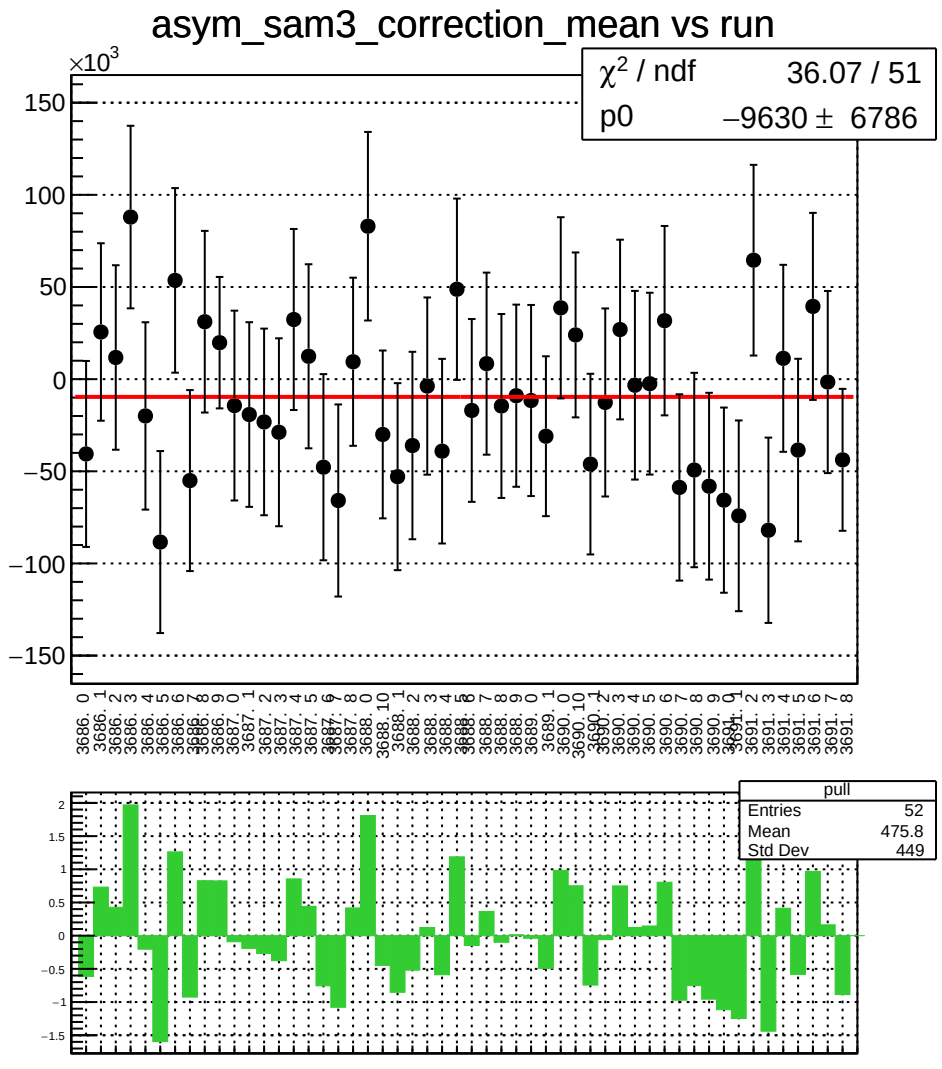

pull1D
Entries 52
Mean −0.005259
Std Dev 0.7433

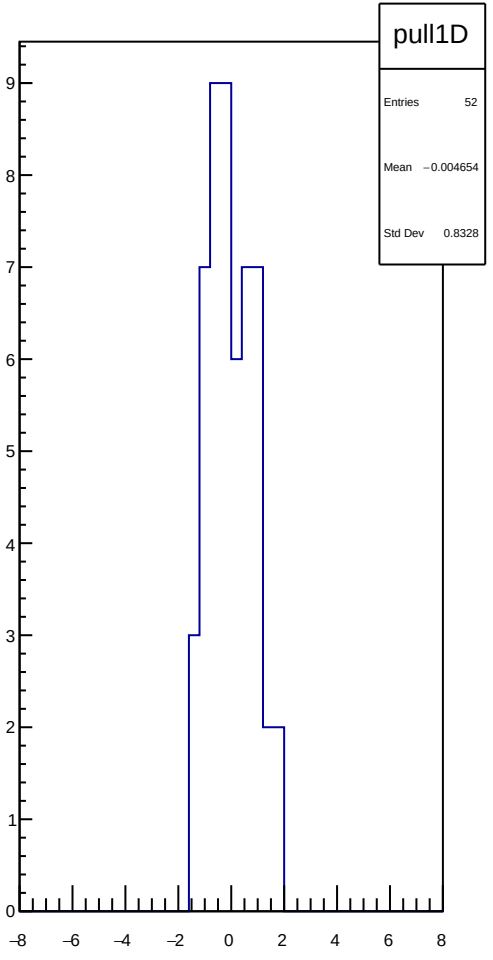

asym_sam2_correction_rms vs run
χ² / ndf 117.5 / 51
p0 7559 ± 7.616
7800
7700
7600
7500
7400
7300
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

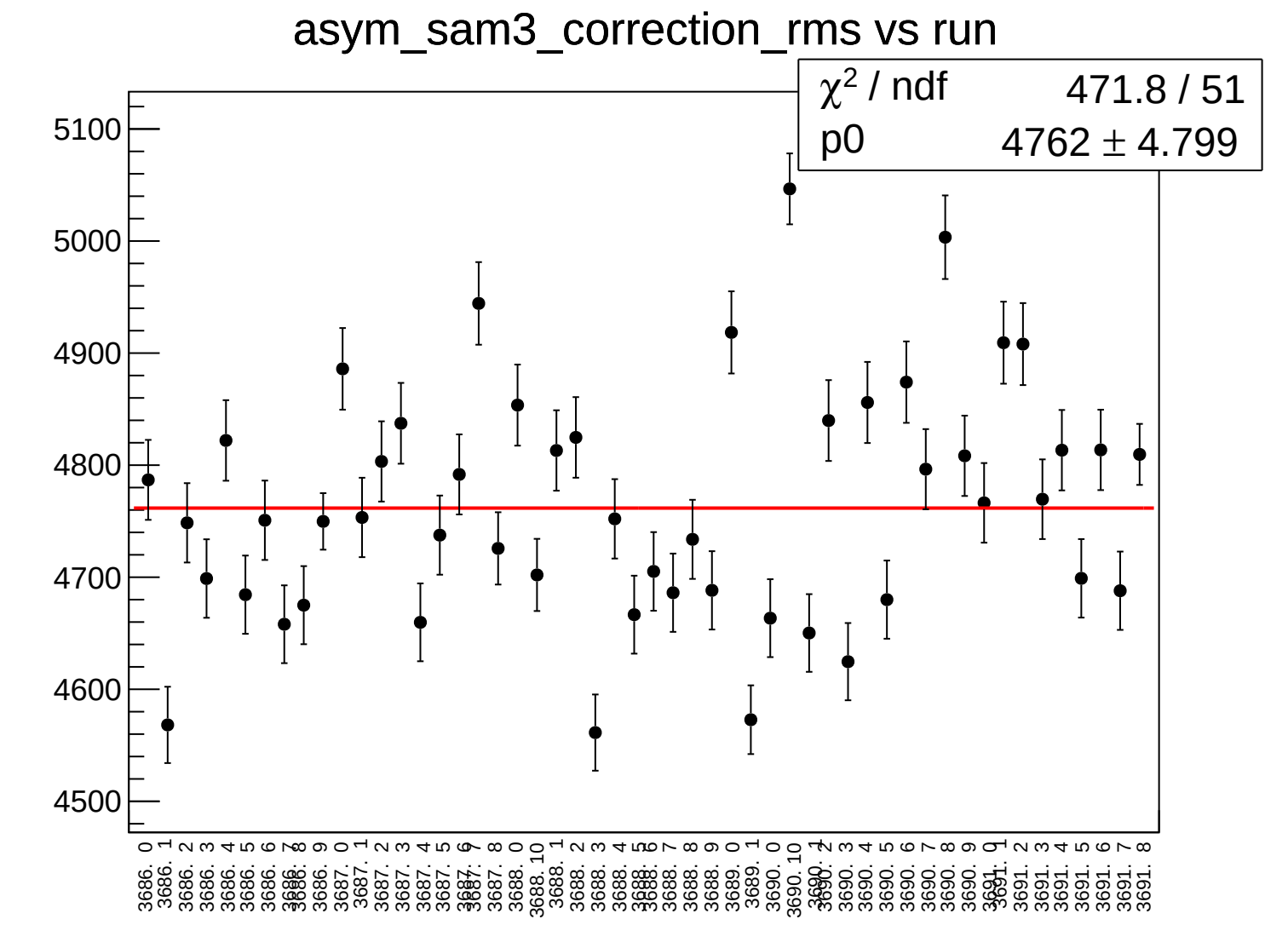

reg_asym_sam3_mean vs run
χ^2 / ndf 47.75 / 51
p0 279.6 ± 636.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 52
Mean 340
Std Dev 306.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

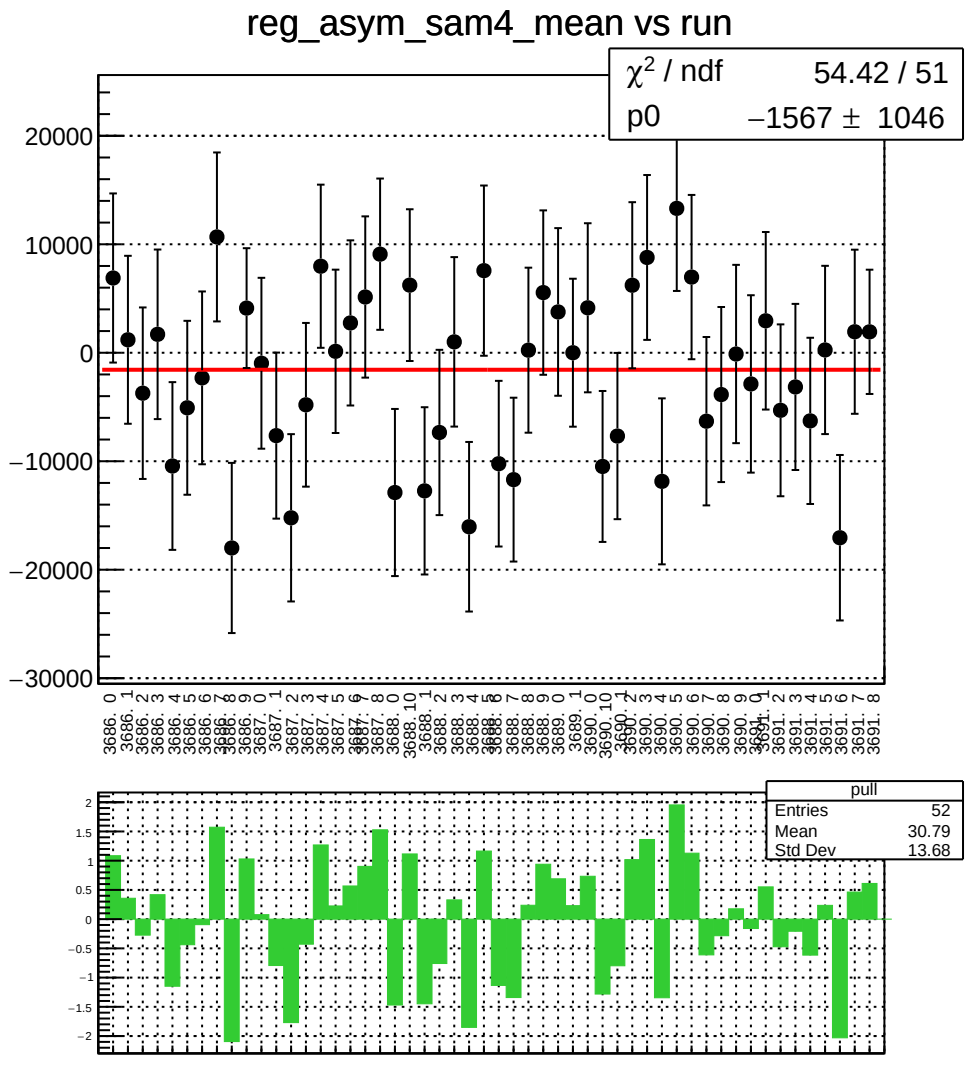

pull1D
Entries 52
Mean −0.005084
Std Dev 0.9583
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

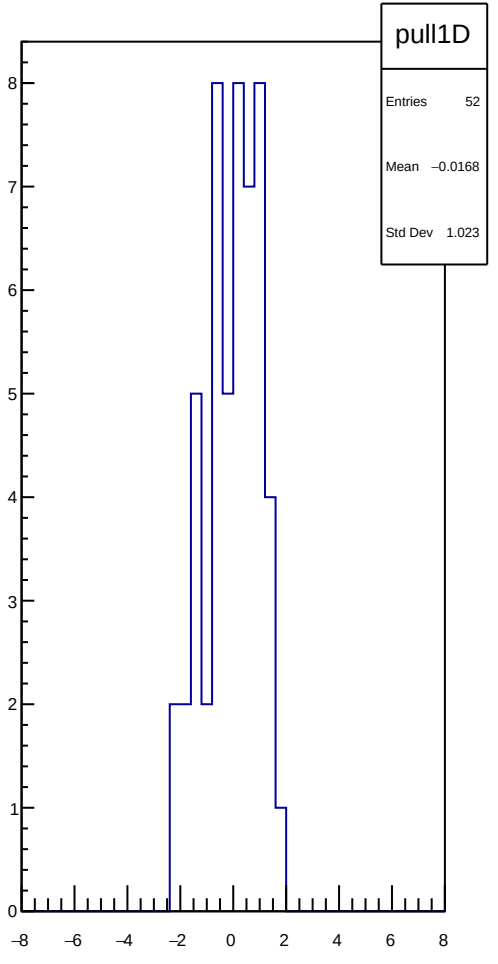

reg_asym_sam3_rms vs run
χ² / ndf 810.9 / 51
p0 446.2 ± 0.4498
490
480
470
460
450
440
430
420
410
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

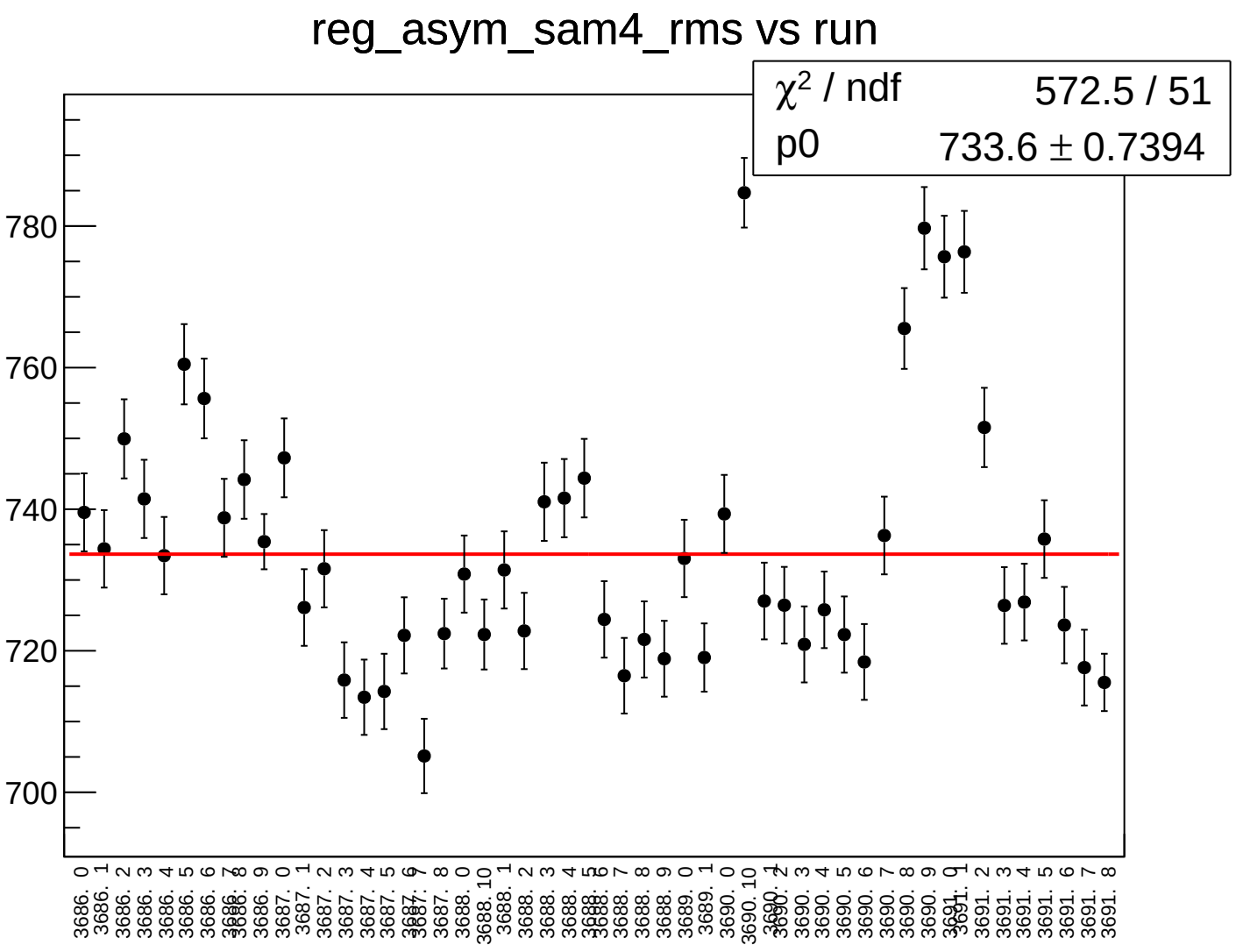

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 36.07 / 51
p0 −9630 ± 6786
150
100
50
0
−50
−100
−150
pull
Entries 52
Mean 475.8
Std Dev 449
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 52
Mean −0.004654
Std Dev 0.8328
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

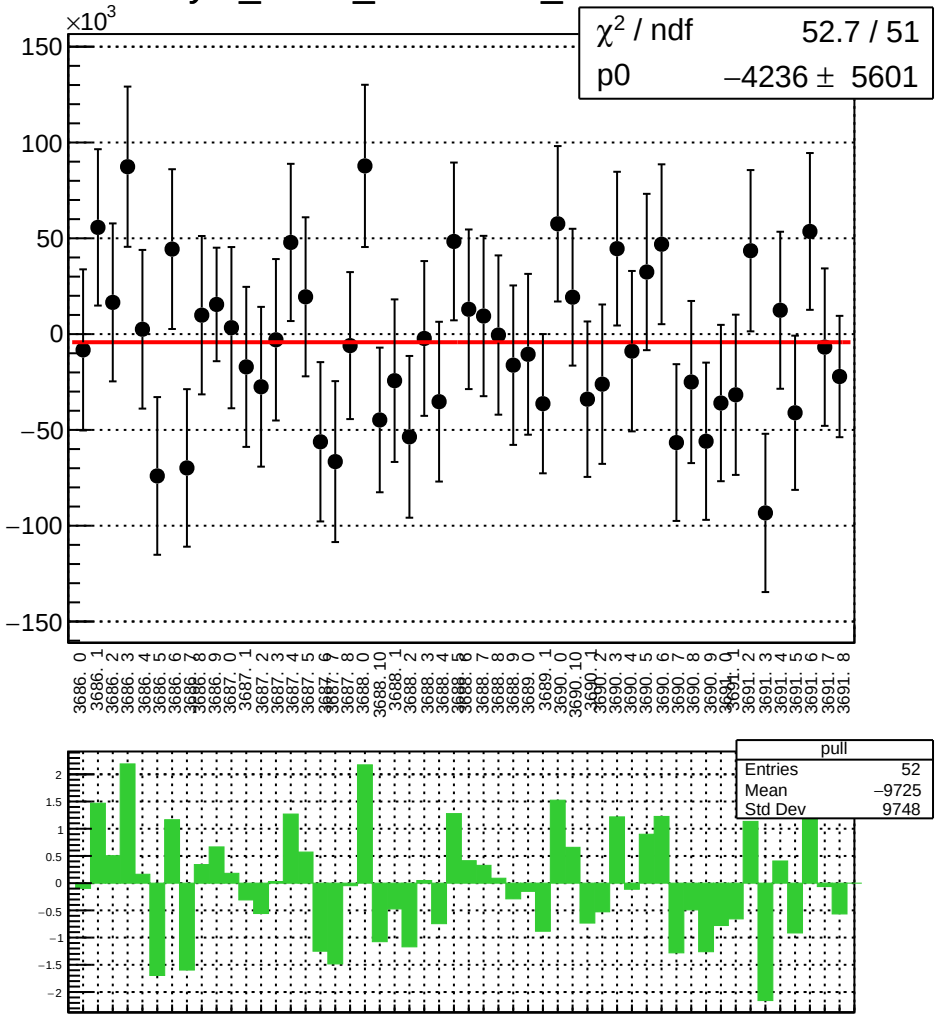

asym_sam3_correction_rms vs run
χ² / ndf 471.8 / 51
p0 4762 ± 4.799
5100
5000
4900
4800
4700
4600
4500
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

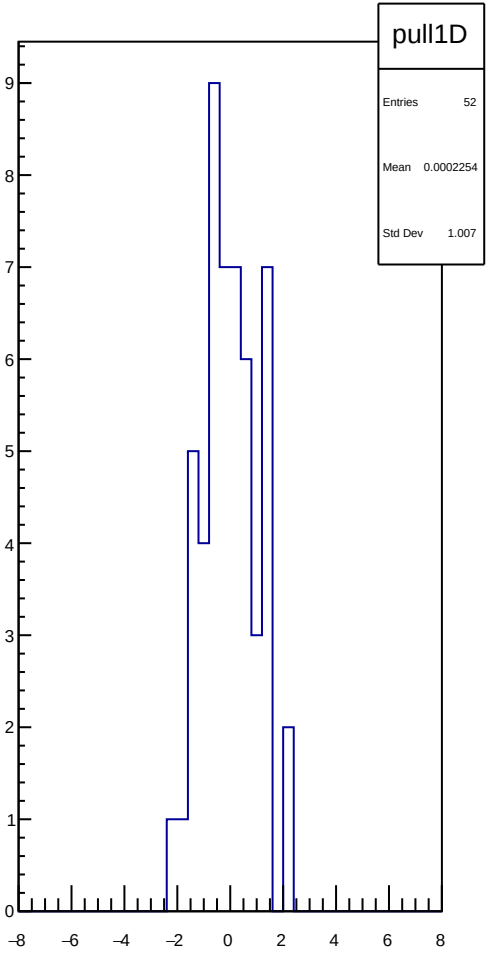

reg_asym_sam4_mean vs run
χ² / ndf 54.42 / 51
p0 −1567 ± 1046
pull
Entries 52
Mean 30.79
Std Dev 13.68

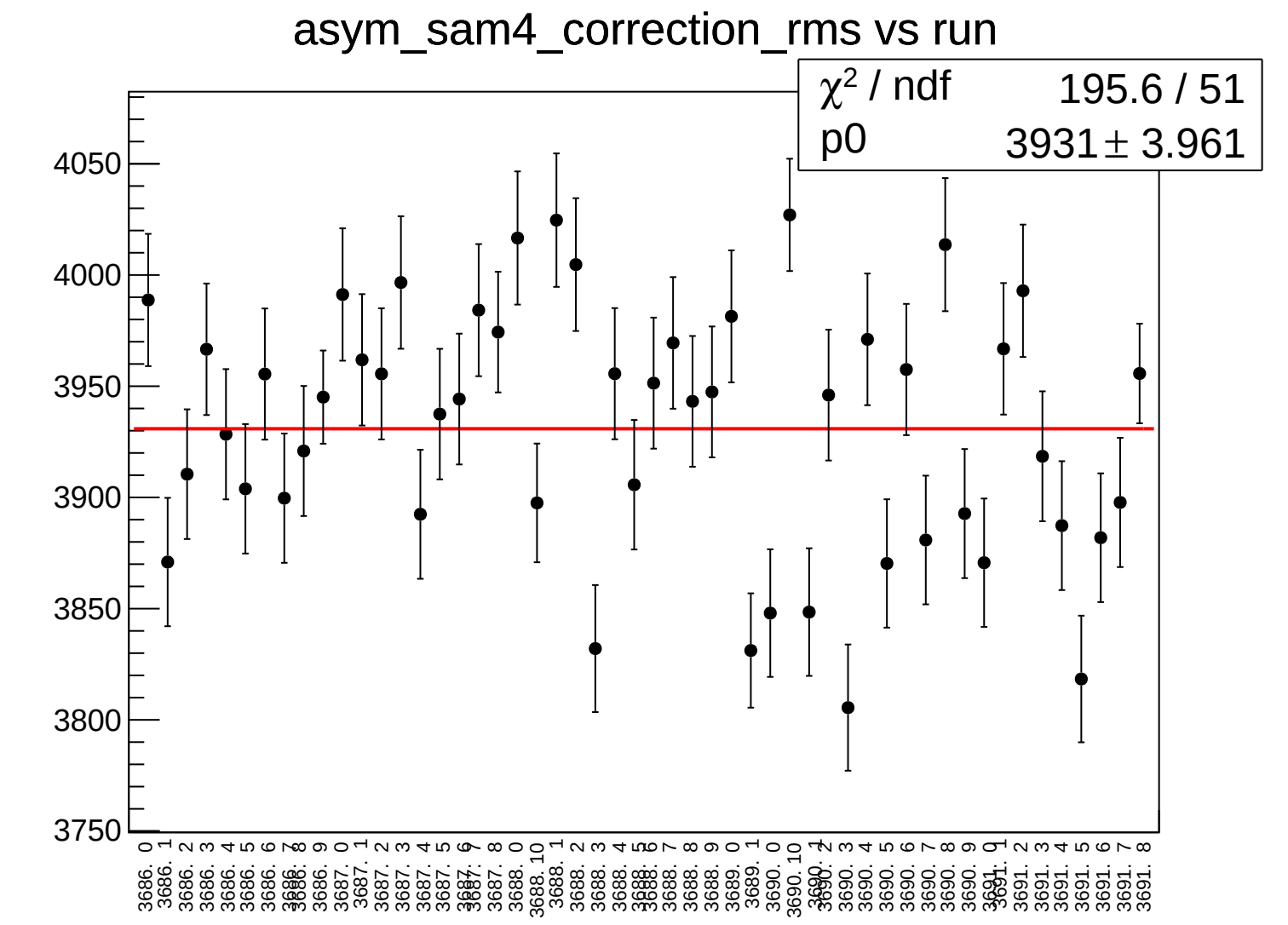

pull1D
Entries 52
Mean −0.0168
Std Dev 1.023

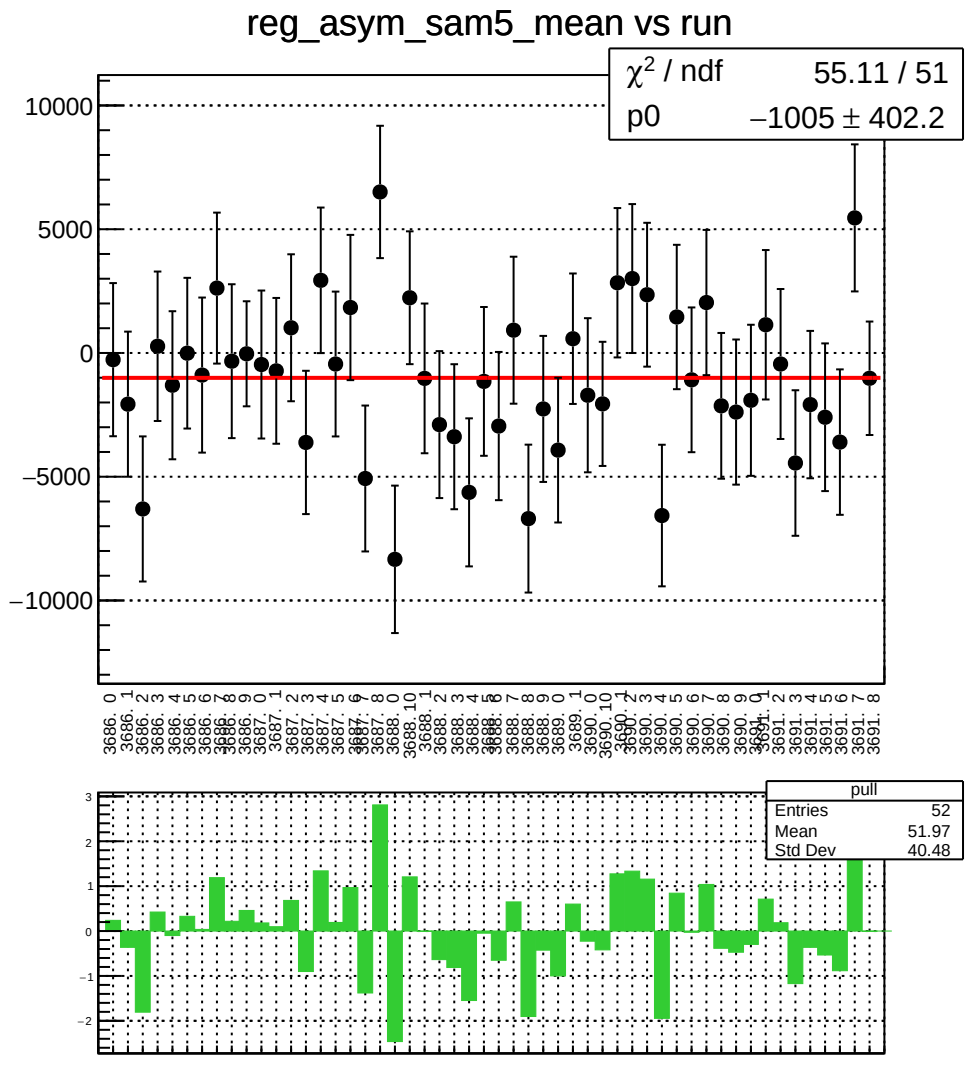

reg_asym_sam4_rms vs run
χ² / ndf 572.5 / 51
p0 733.6 ± 0.7394
780
760
740
720
700
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

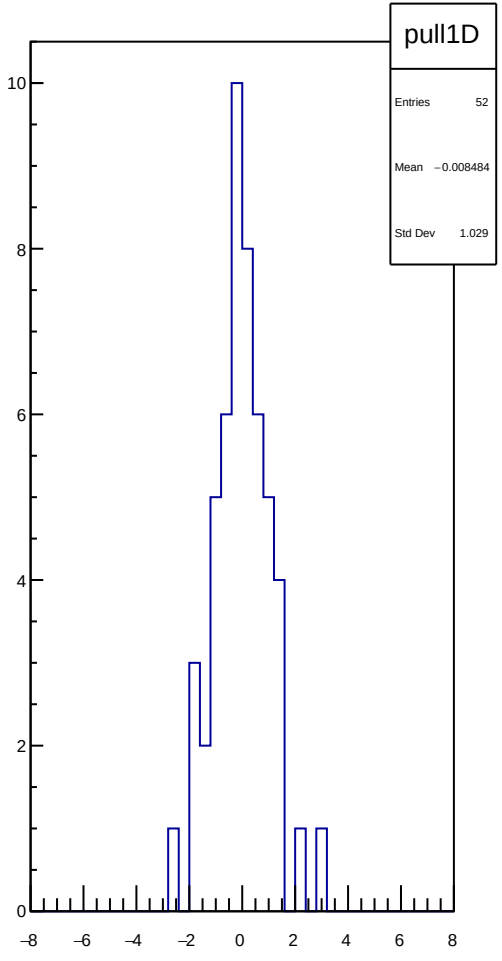
asym_sam4_correction_mean vs run

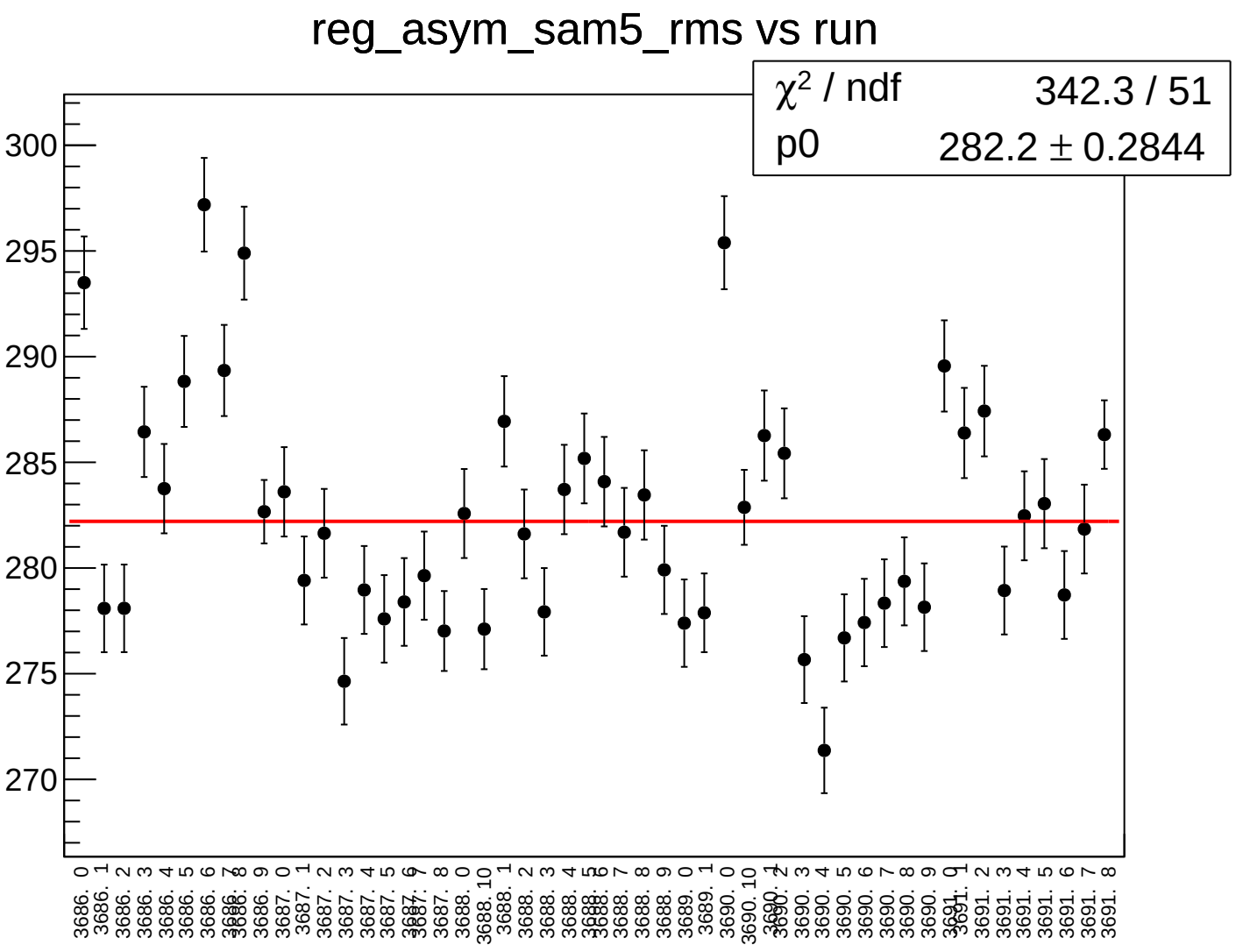


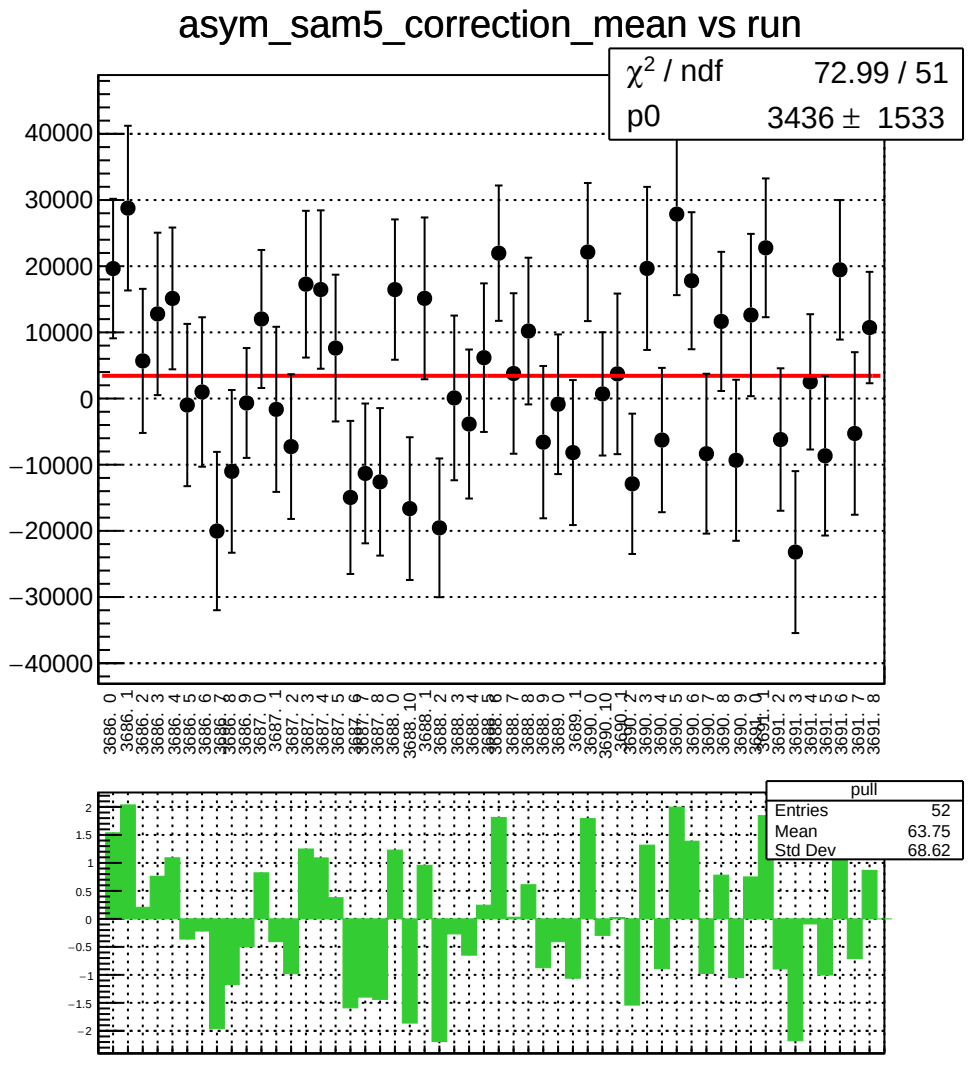


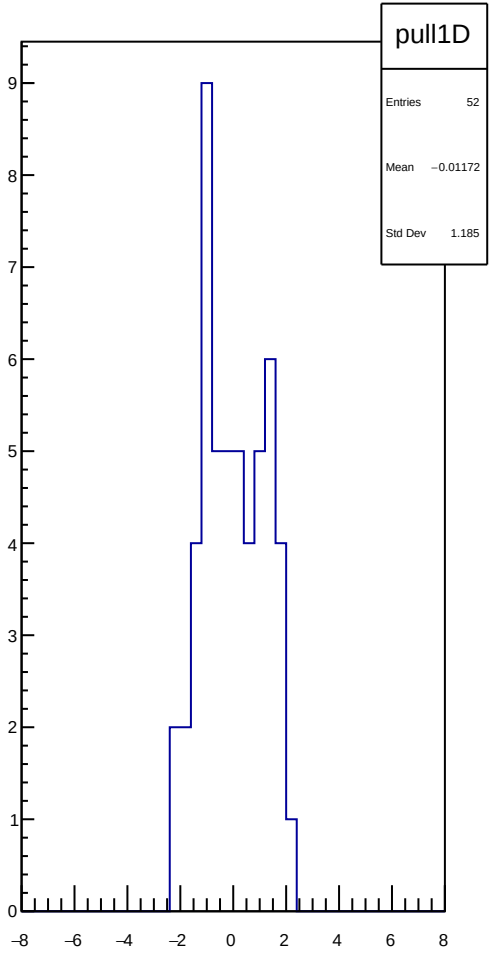

asym_sam4_correction_rms vs run
χ² / ndf 195.6 / 51
p0 3931 ± 3.961
4050
4000
3950
3900
3850
3800
3750

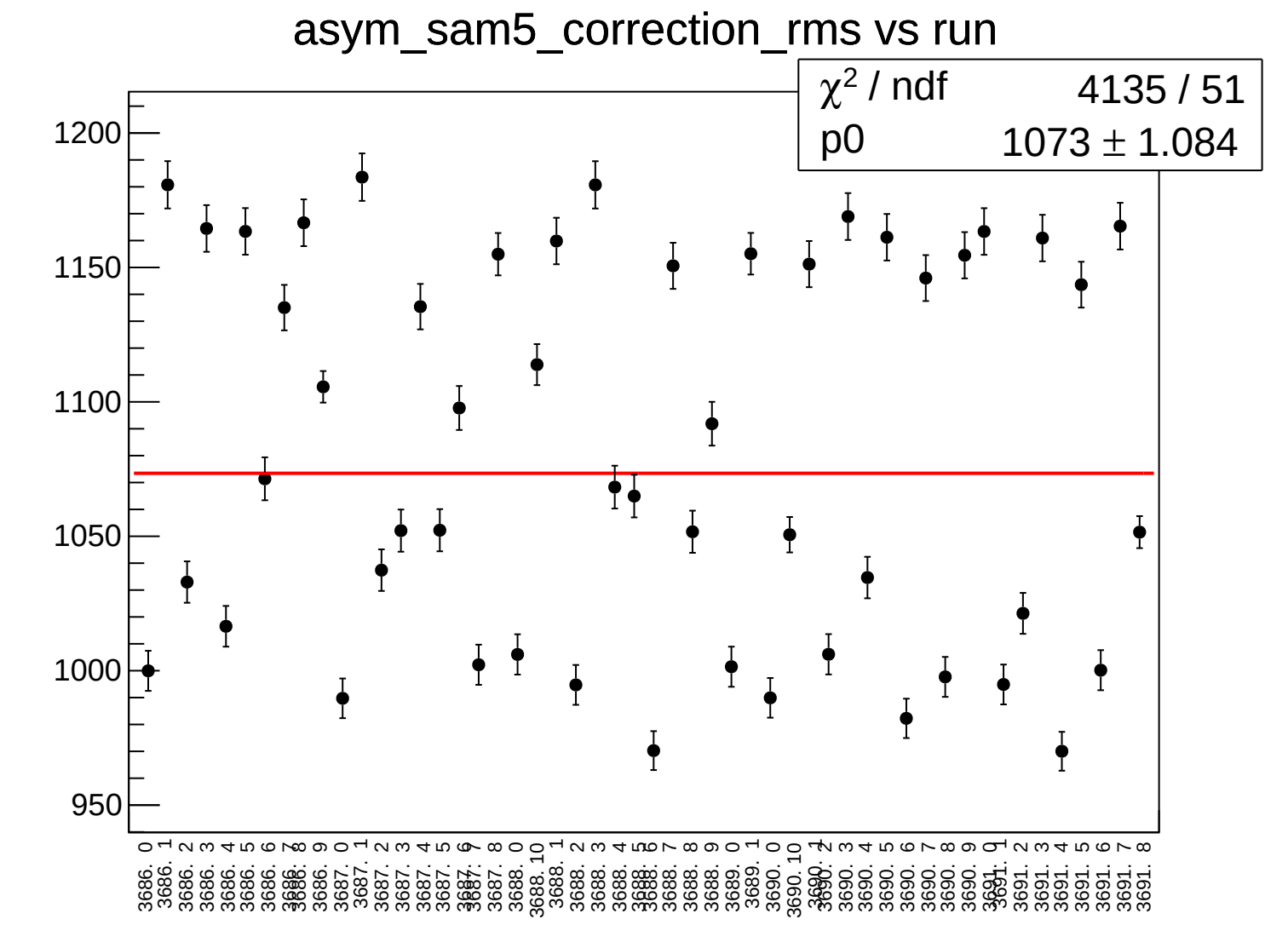

reg_asym_sam5_mean vs run
χ^2 / ndf 55.11 / 51
p0 −1005 ± 402.2
10000
5000
0
−5000
−10000
pull
Entries 52
Mean 51.97
Std Dev 40.48
3
2
1
0
−1
−2

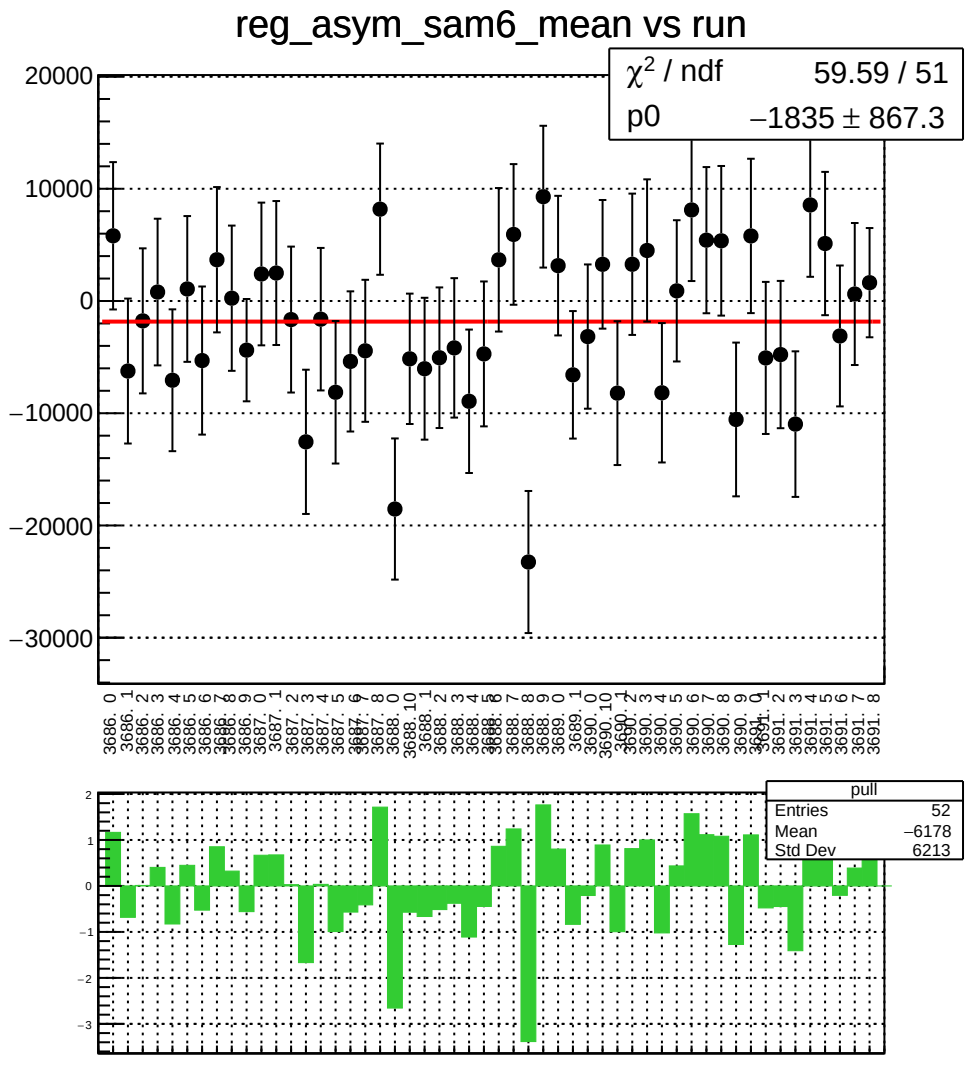

pull1D
Entries 52
Mean −0.008484
Std Dev 1.029
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

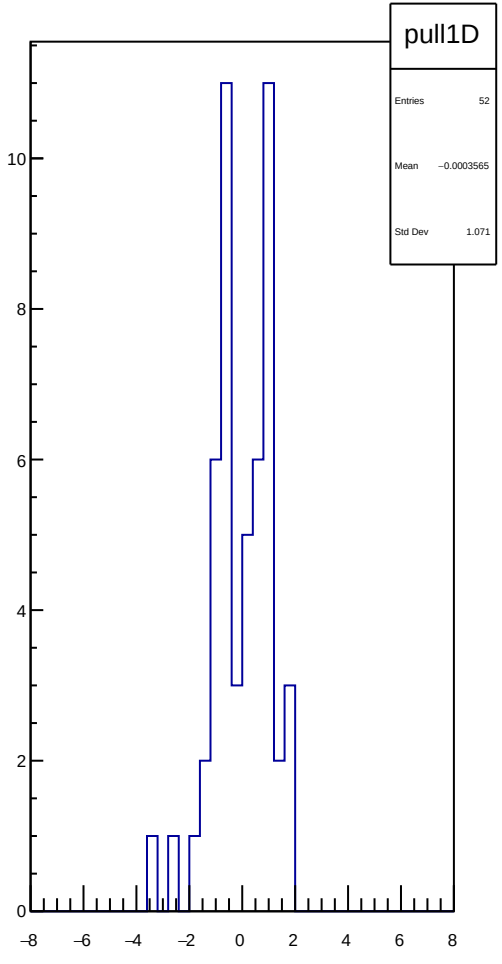

reg_asym_sam5_rms vs run
χ² / ndf 342.3 / 51
p0 282.2 ± 0.2844
300
295
290
285
280
275
270
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

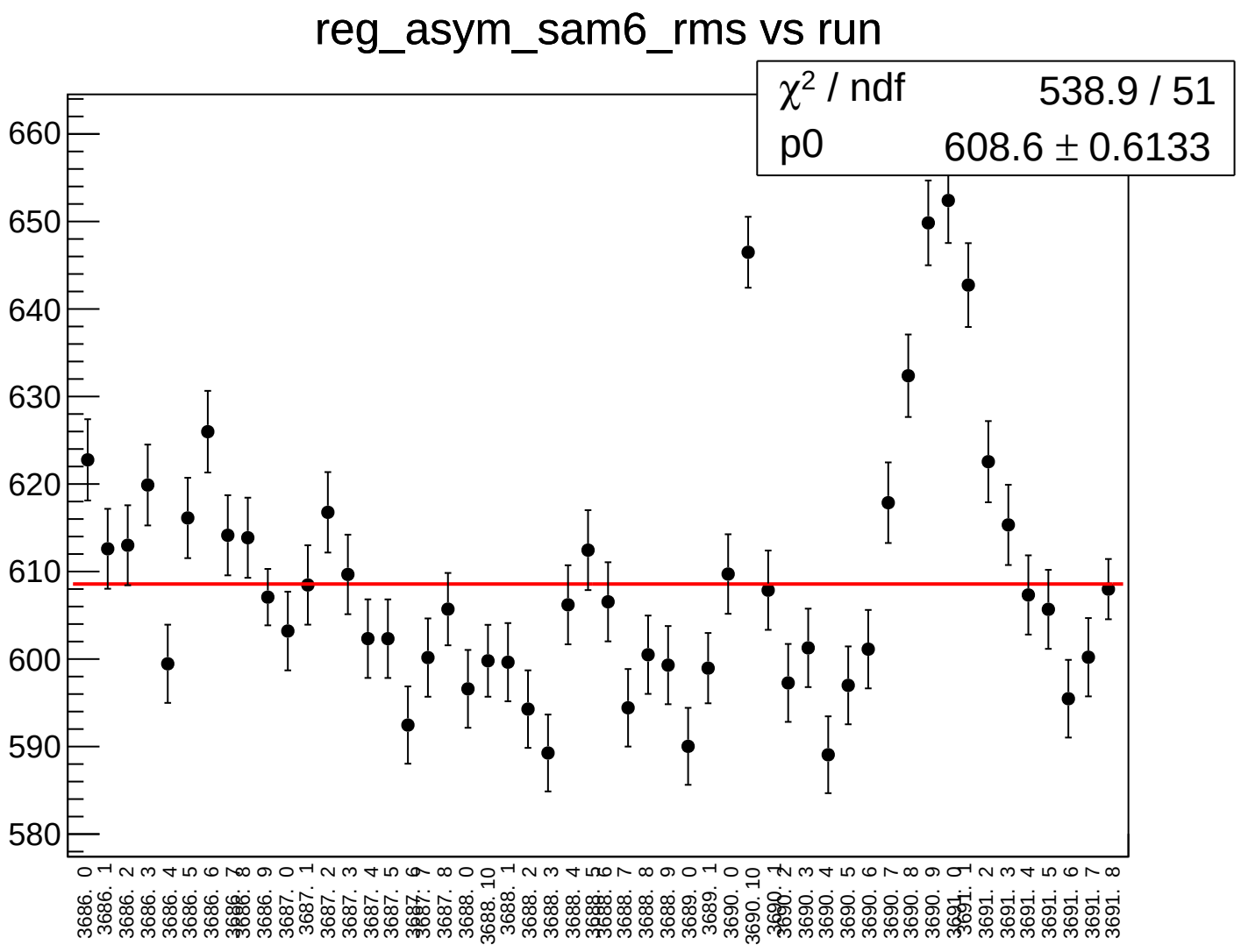

asym_sam5_correction_mean vs run
χ² / ndf 72.99 / 51
p0 3436 ± 1533
pull
Entries 52
Mean 63.75
Std Dev 68.62


pull1D
Entries 52
Mean −0.01172
Std Dev 1.185

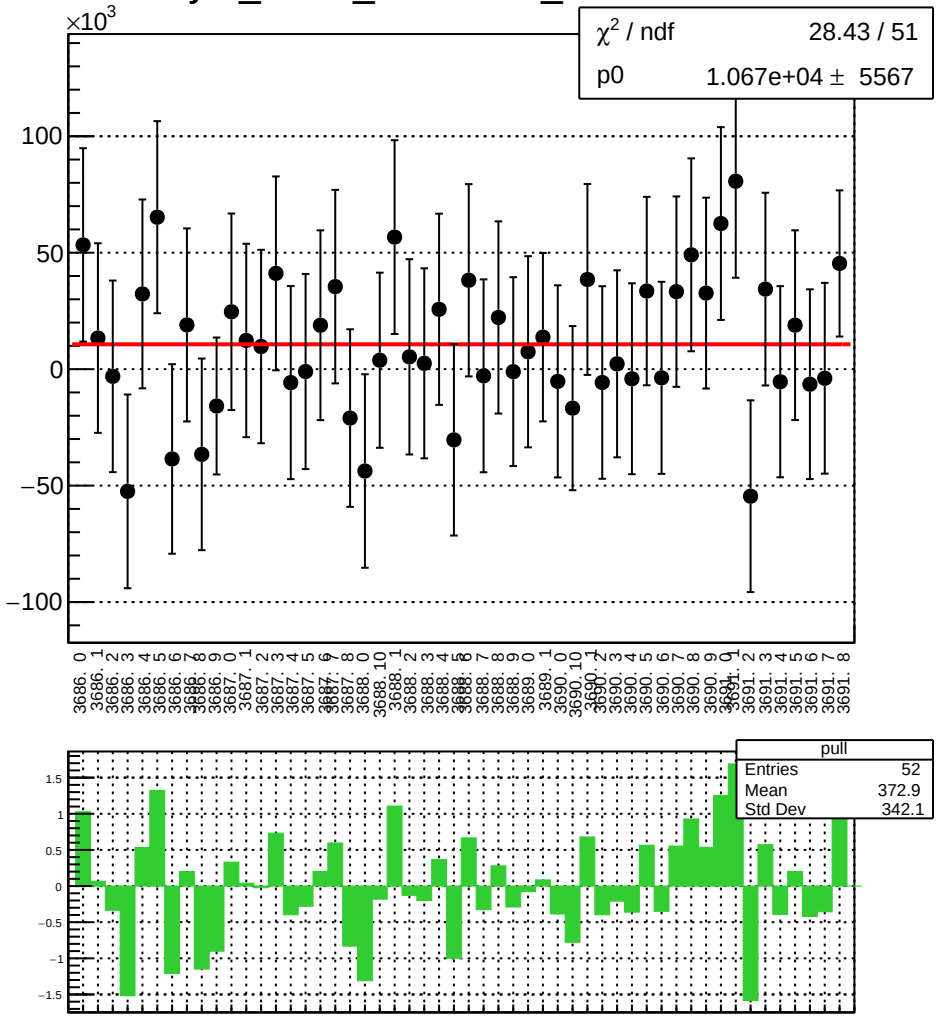

asym_sam5_correction_rms vs run
χ² / ndf 4135 / 51
p0 1073 ± 1.084
1200
1150
1100
1050
1000
950
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

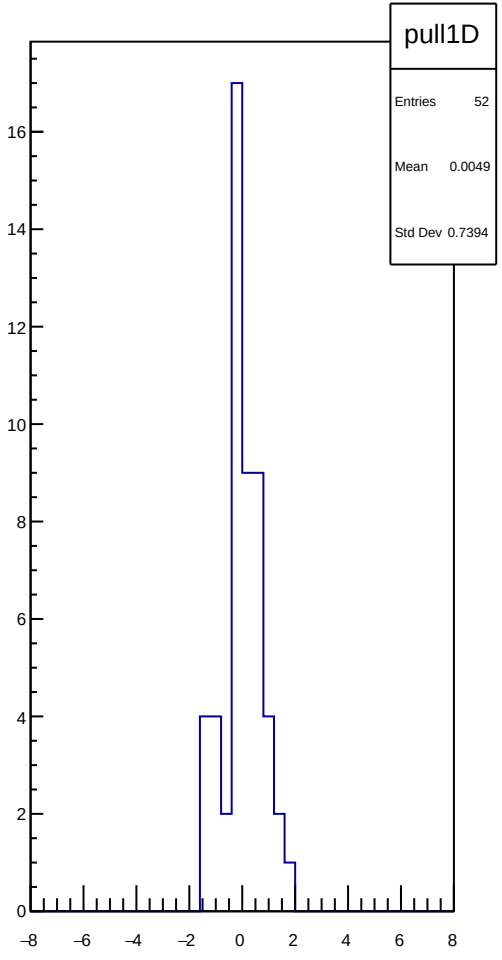

reg_asym_sam6_mean vs run
χ^2 / ndf 59.59 / 51
p0 −1835 ± 867.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 52
Mean −6178
Std Dev 6213
2
1
0
−1
−2
−3

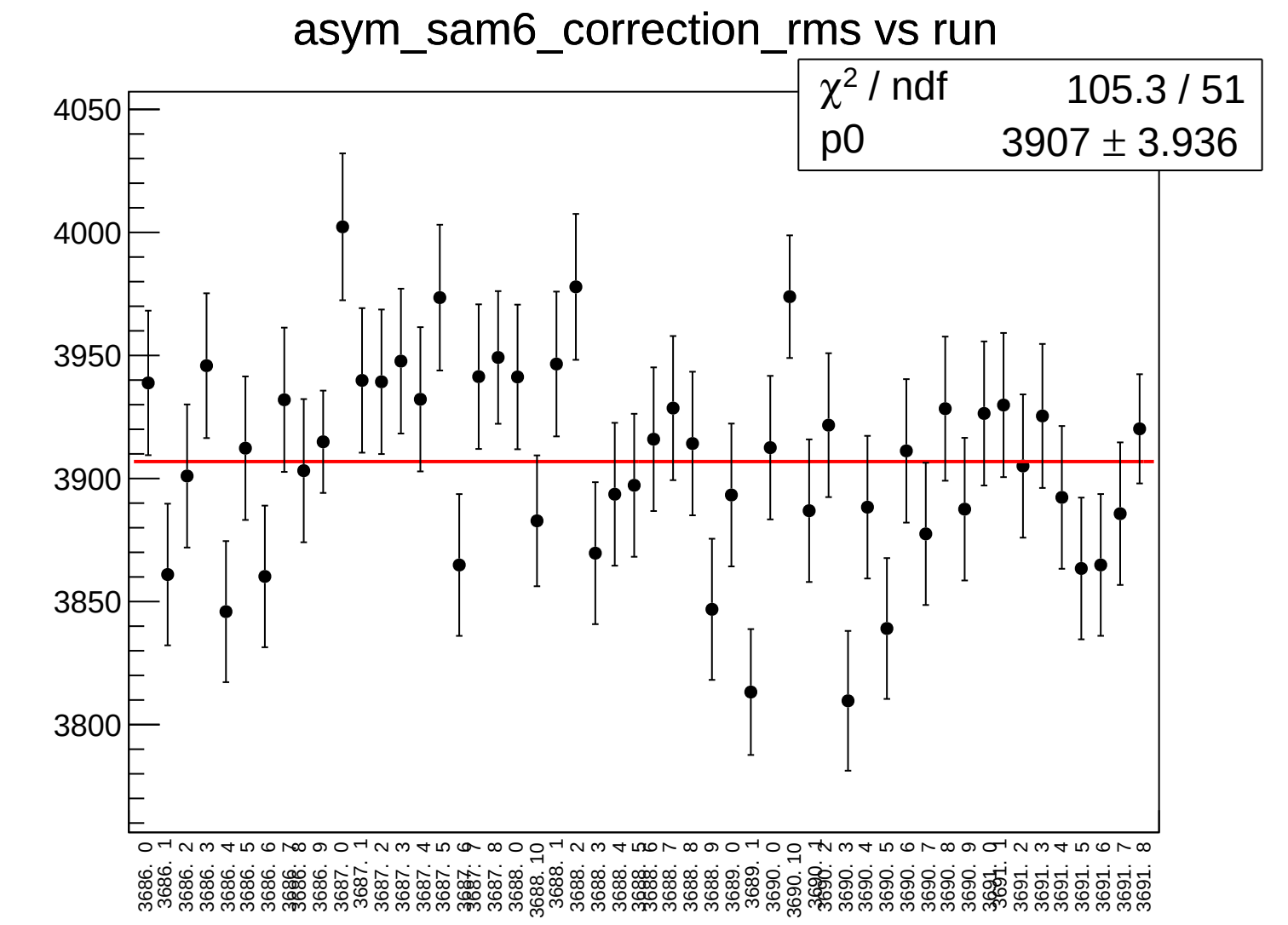

pull1D
Entries 52
Mean −0.0003565
Std Dev 1.071
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

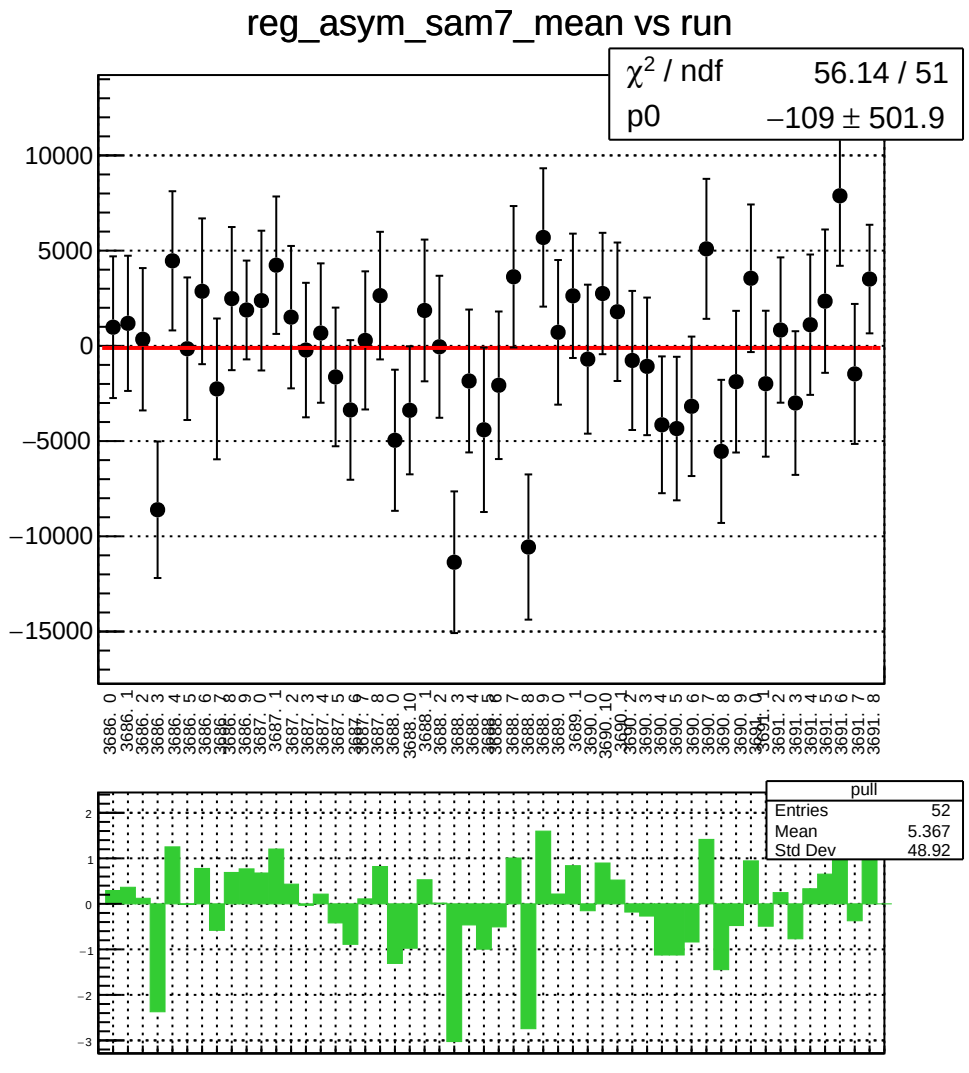

reg_asym_sam6_rms vs run
χ² / ndf 538.9 / 51
p0 608.6 ± 0.6133
660
650
640
630
620
610
600
590
580
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

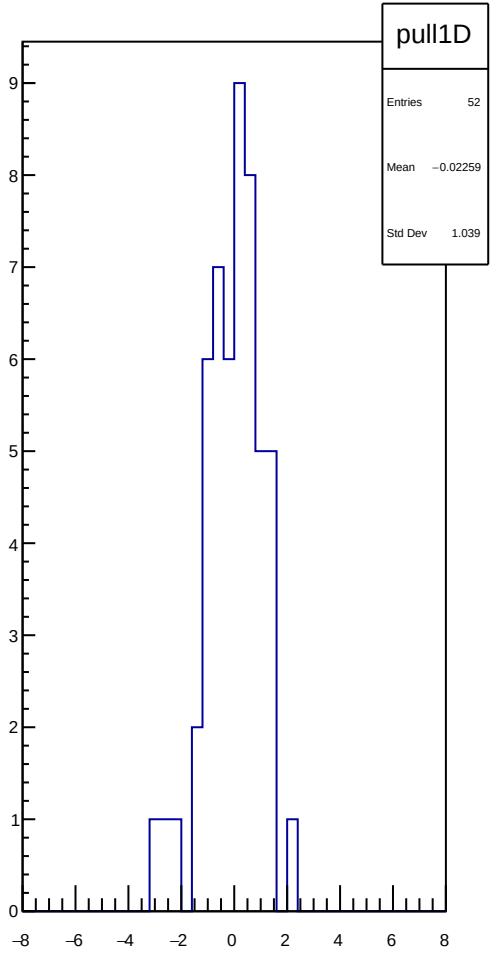
asym_sam6_correction_mean vs run

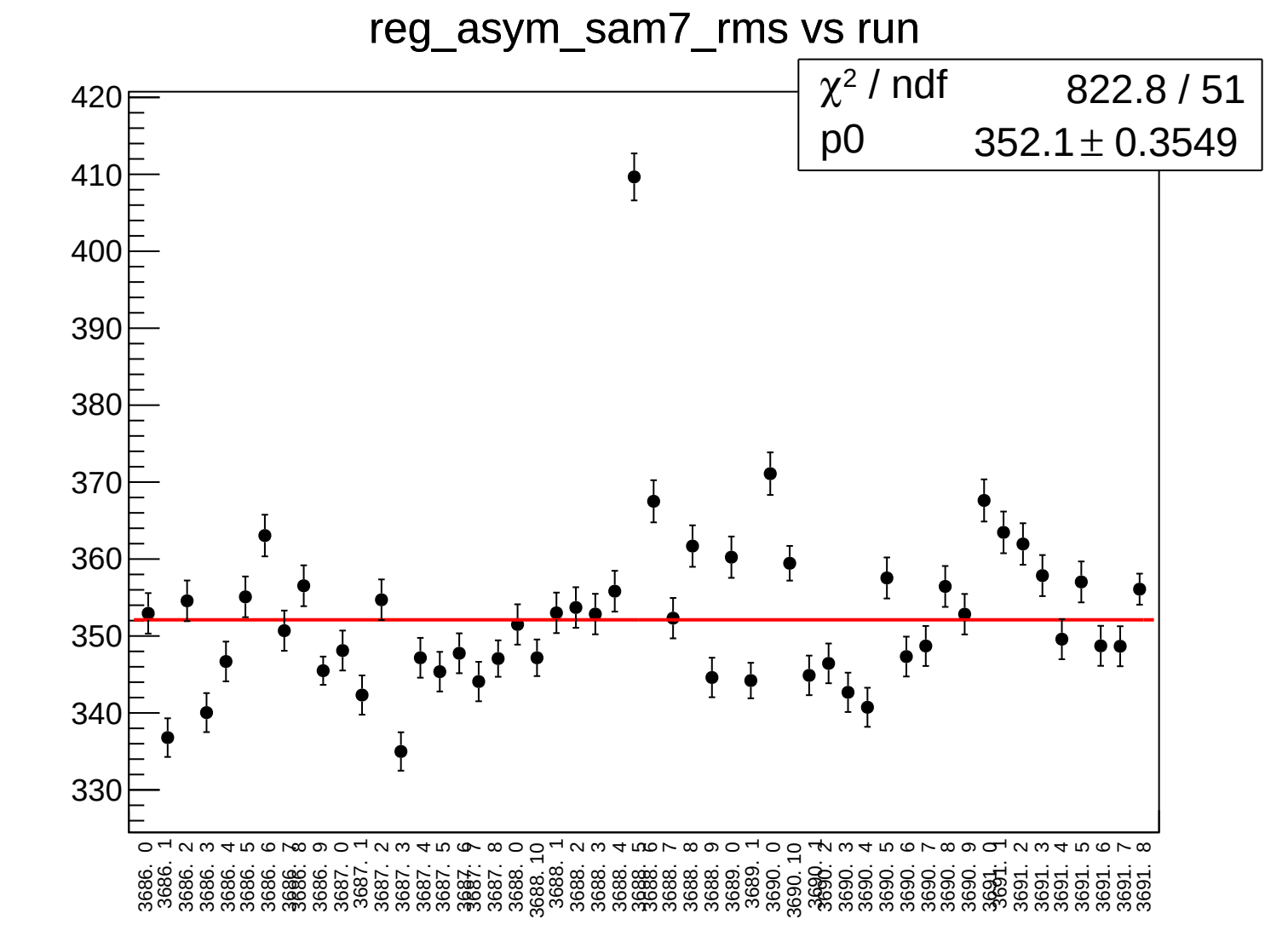


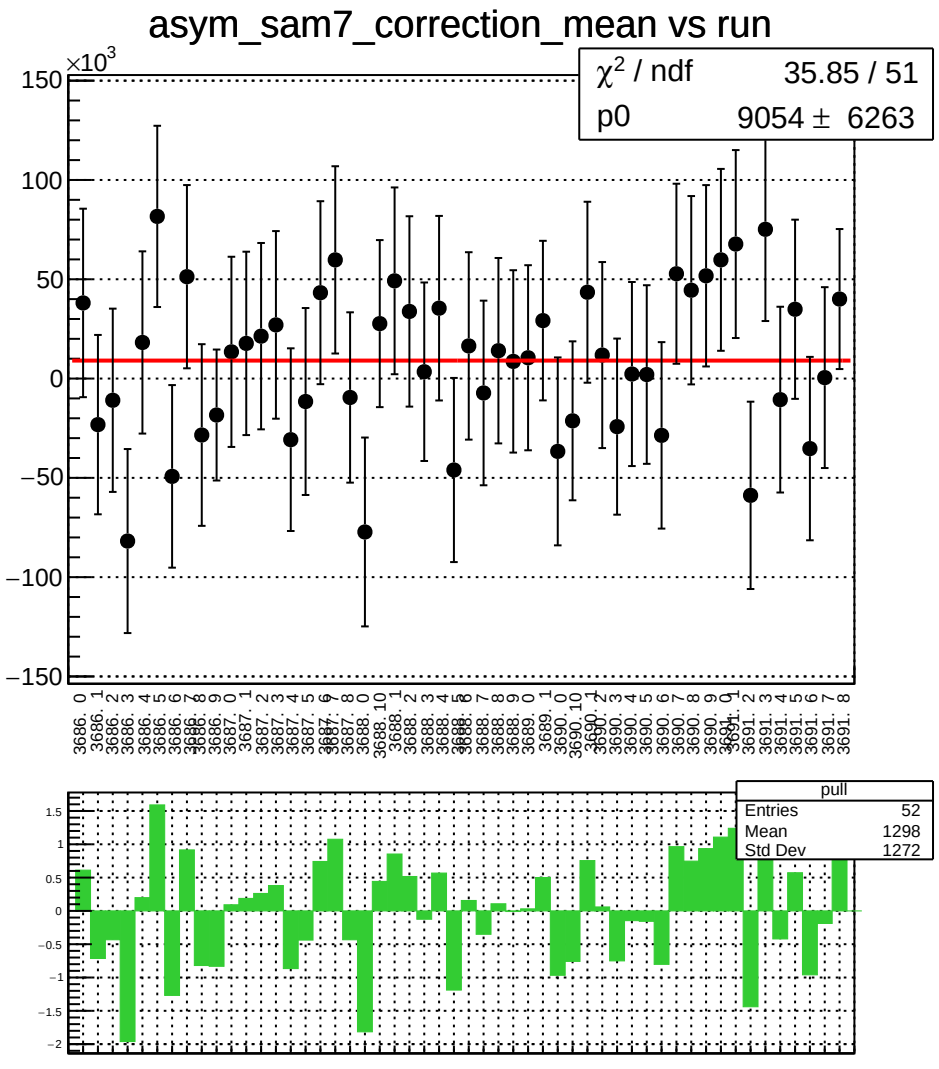


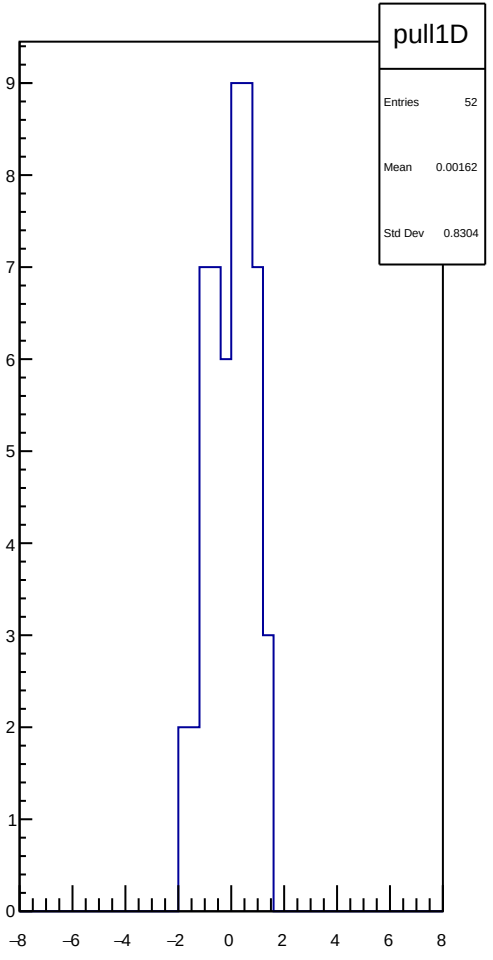

asym_sam6_correction_rms vs run
χ² / ndf 105.3 / 51
p0 3907 ± 3.936
4050
4000
3950
3900
3850
3800
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 5
3688. 6
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 1
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 0
3691. 1
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

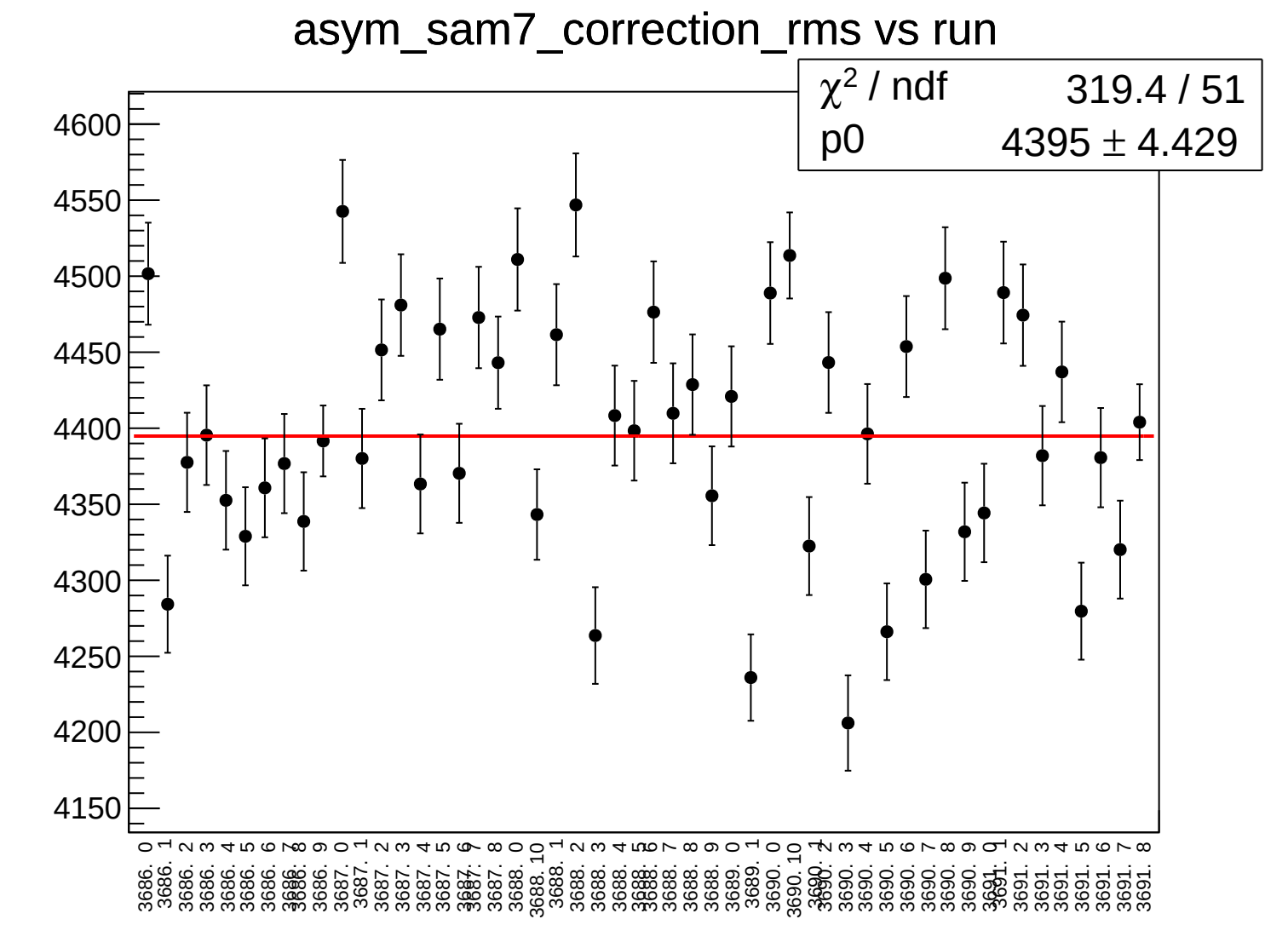

reg_asym_sam7_mean vs run
χ² / ndf 56.14 / 51
p0 −109 ± 501.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 52
Mean 5.367
Std Dev 48.92
2
1
0
−1
−2
−3


pull1D
Entries 52
Mean −0.02259
Std Dev 1.039
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam7_rms vs run
χ² / ndf 822.8 / 51
p0 352.1 ± 0.3549
420
410
400
390
380
370
360
350
340
330


asym_sam7_correction_mean vs run
×10^3
χ² / ndf 35.85 / 51
p0 9054 ± 6263
pull
Entries 52
Mean 1298
Std Dev 1272


pull1D
Entries 52
Mean 0.00162
Std Dev 0.8304


asym_sam7_correction_rms vs run
χ² / ndf 319.4 / 51
p0 4395 ± 4.429
4600
4550
4500
4450
4400
4350
4300
4250
4200
4150
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
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3691. 1
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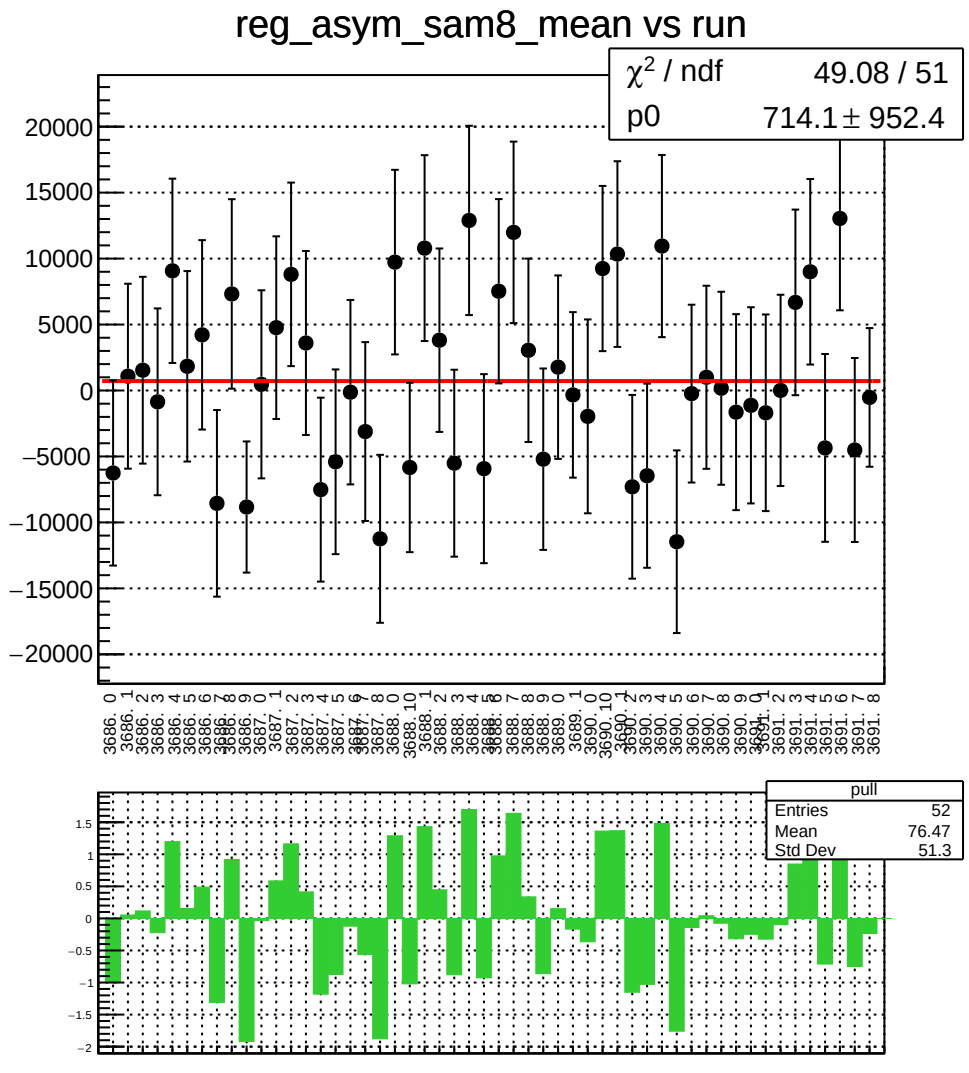
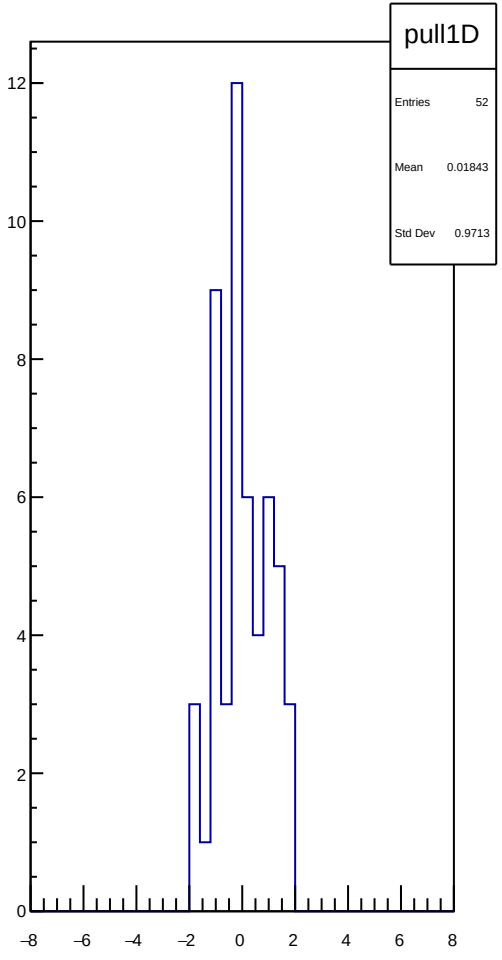
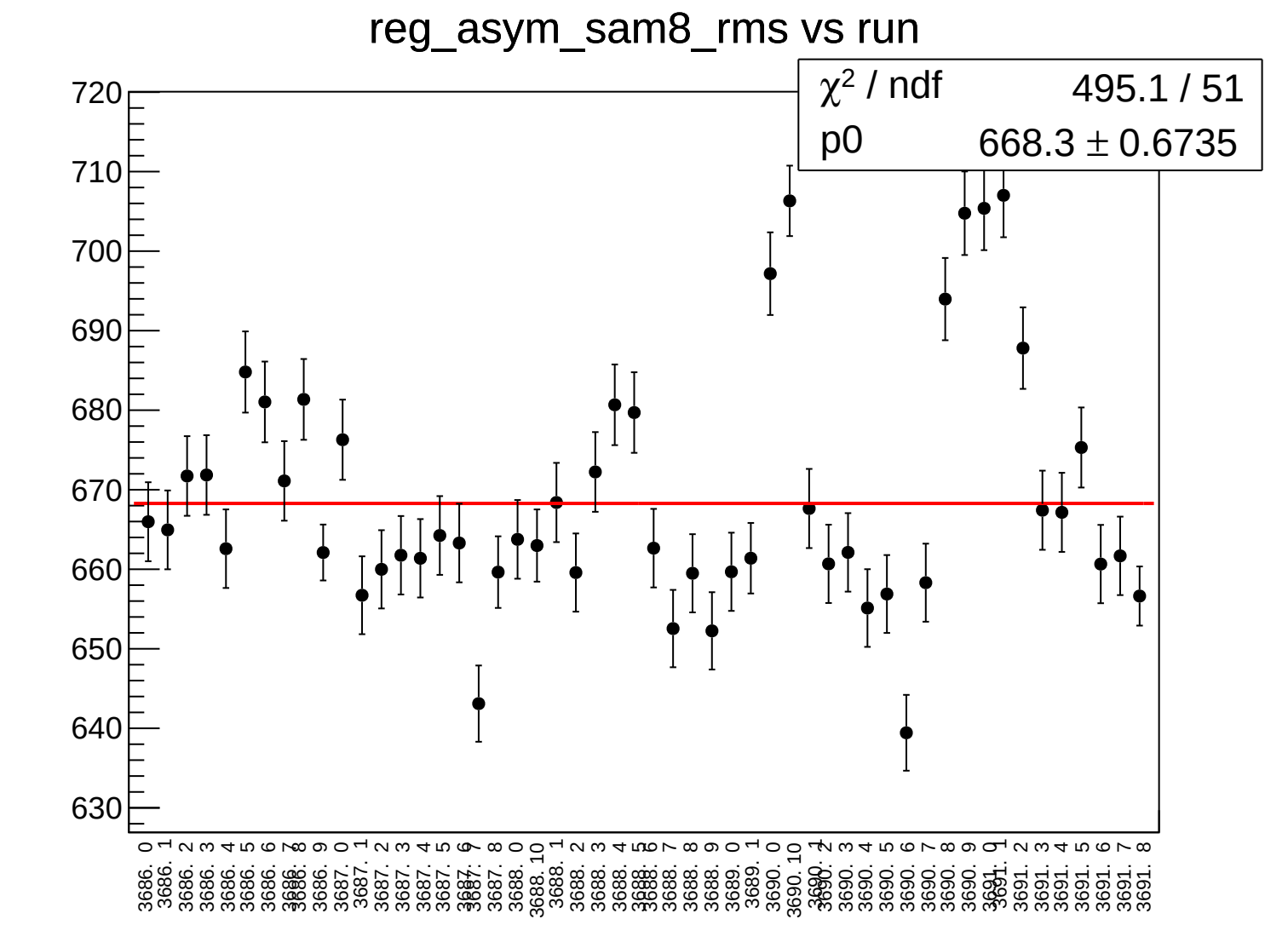
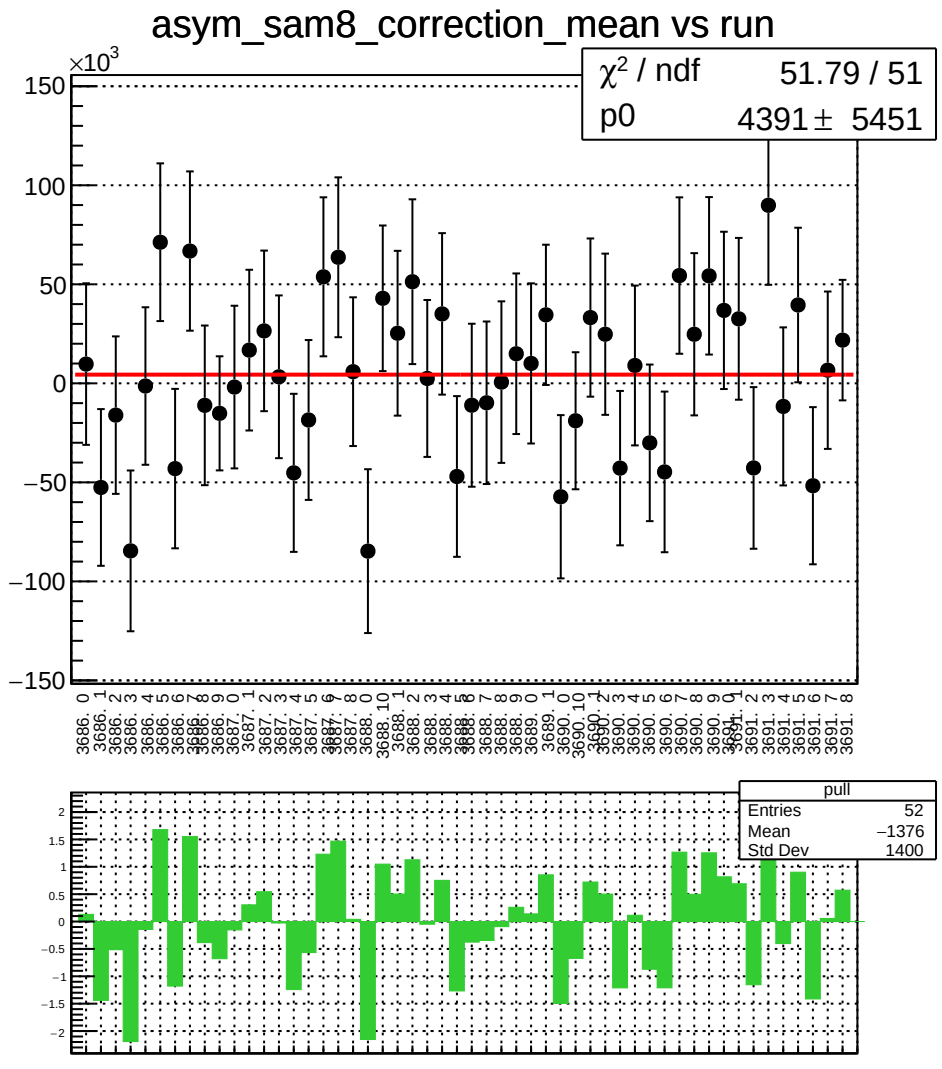
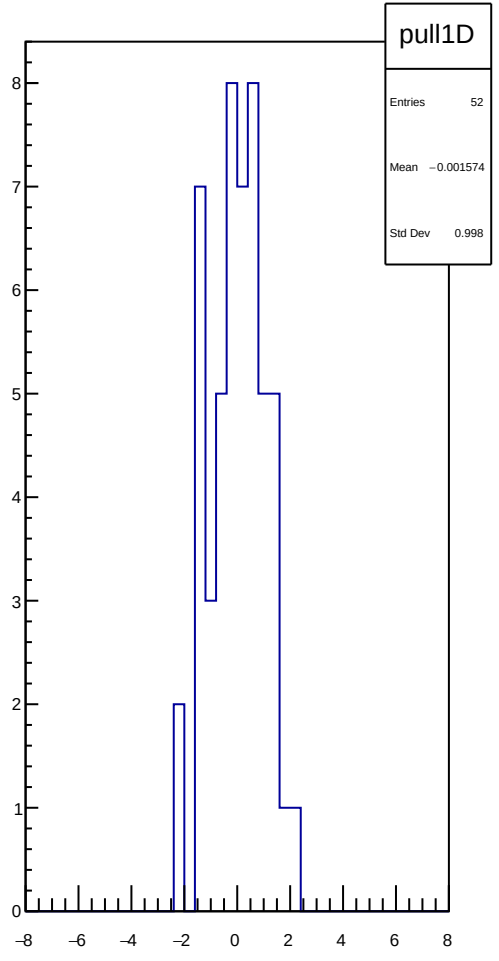
3691. 7
3691. 8

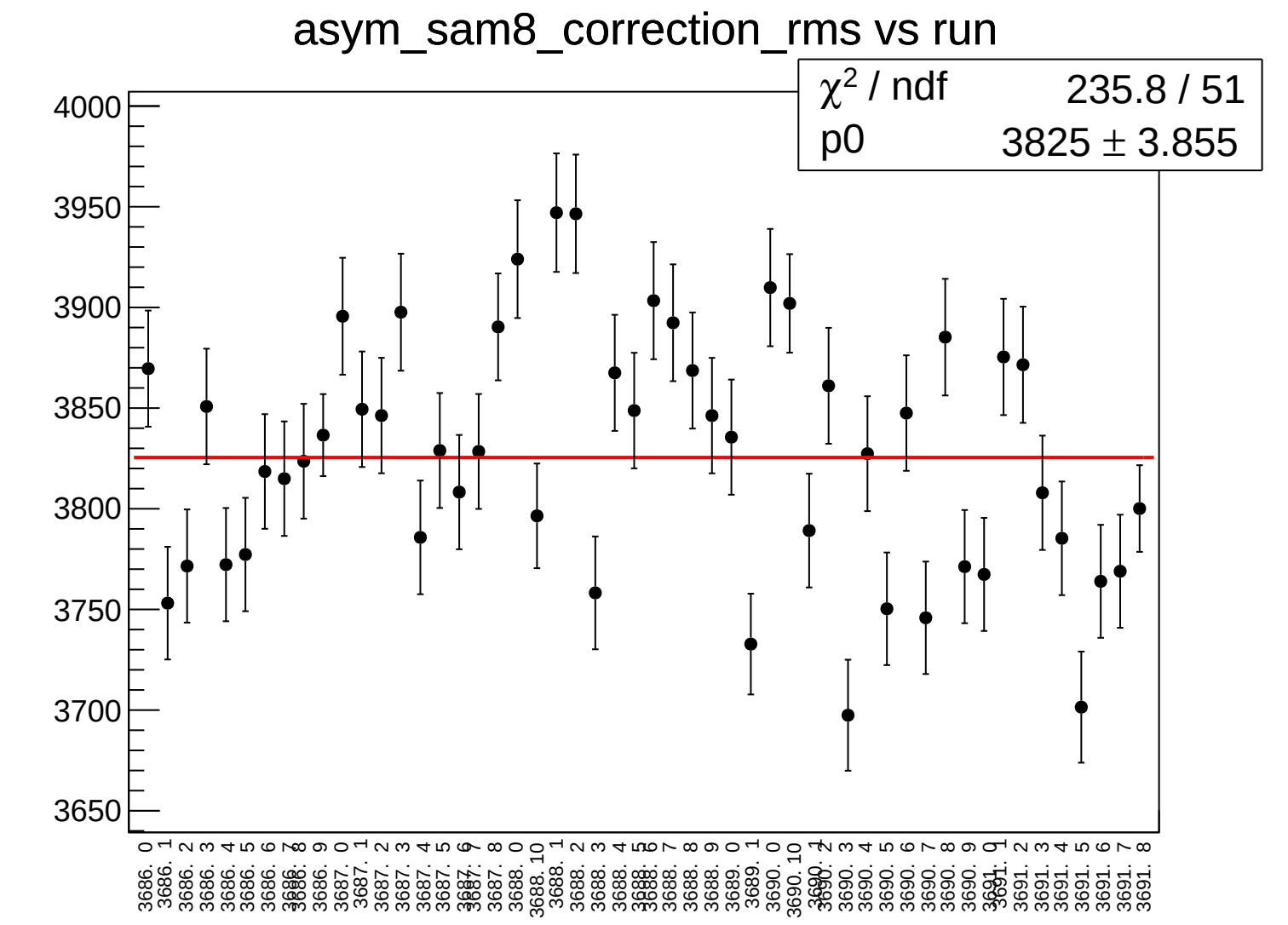

reg_asym_sam8_mean vs run
χ² / ndf 49.08 / 51
p0 714.1 ± 952.4
pull
Entries 52
Mean 76.47
Std Dev 51.3

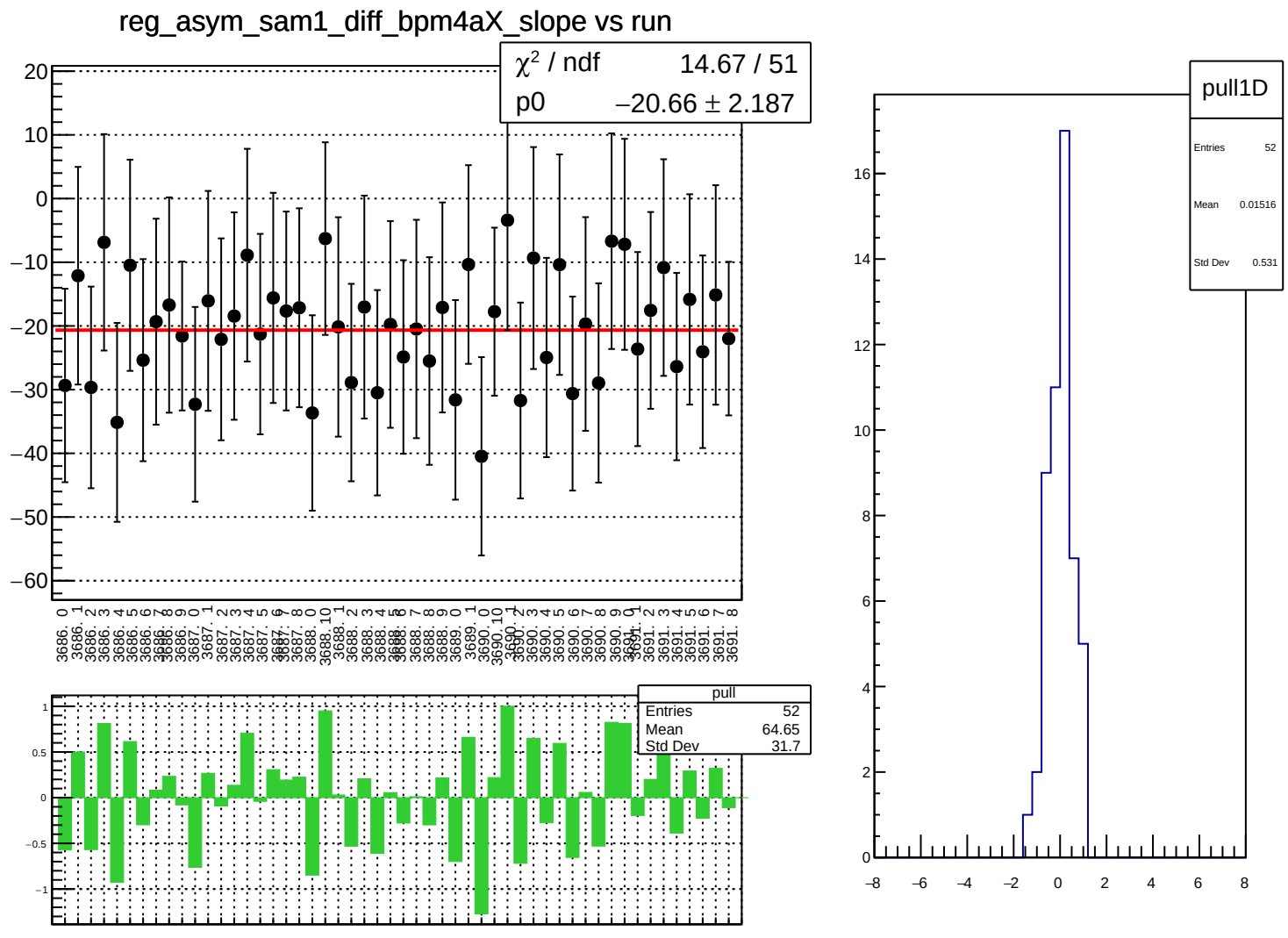

pull1D
Entries 52
Mean 0.01843
Std Dev 0.9713

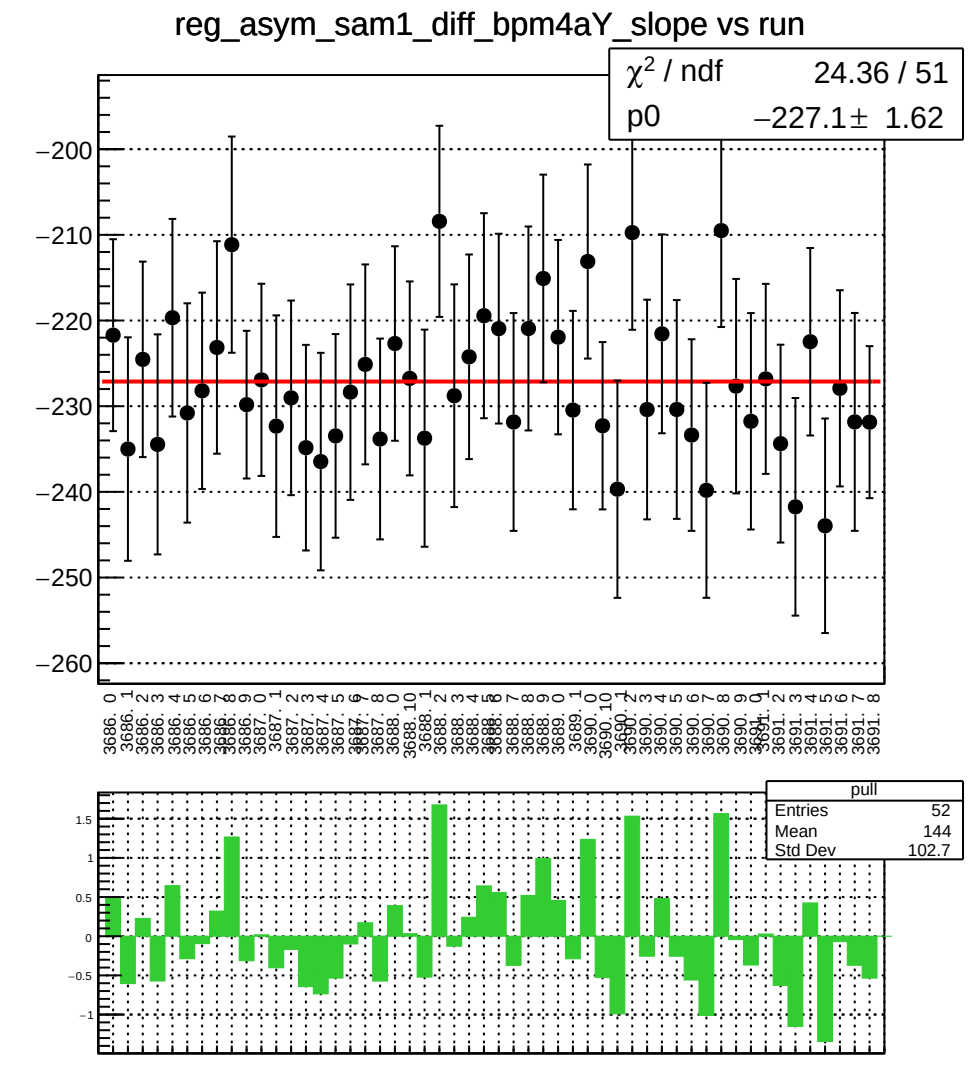

reg_asym_sam8_rms vs run
χ² / ndf 495.1 / 51
p0 668.3 ± 0.6735
720
710
700
690
680
670
660
650
640
630
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
3688. 3
3688. 4
3688. 7
3688. 8
3688. 9
3689. 0
3689. 1
3690. 0
3690. 10
3690. 2
3690. 3
3690. 4
3690. 5
3690. 6
3690. 7
3690. 8
3690. 9
3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8

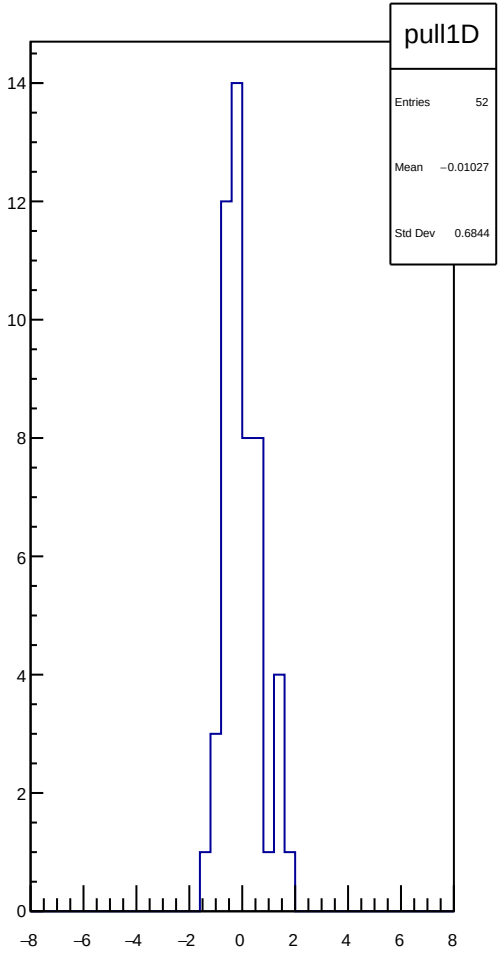

asym_sam8_correction_mean vs run
×10^3
χ² / ndf 51.79 / 51
p0 4391 ± 5451
150
100
50
0
−50
−100
−150
pull
Entries 52
Mean −1376
Std Dev 1400
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

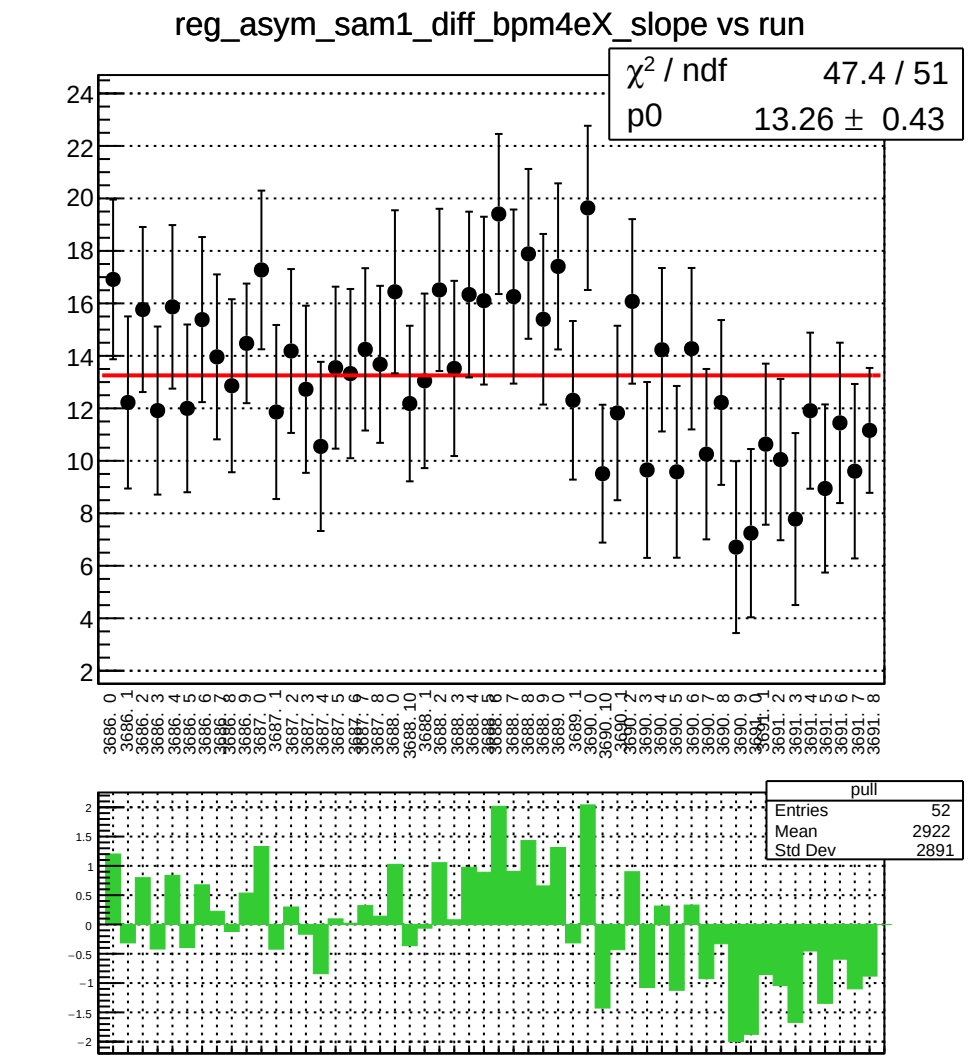

pull1D
Entries 52
Mean −0.001574
Std Dev 0.998
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

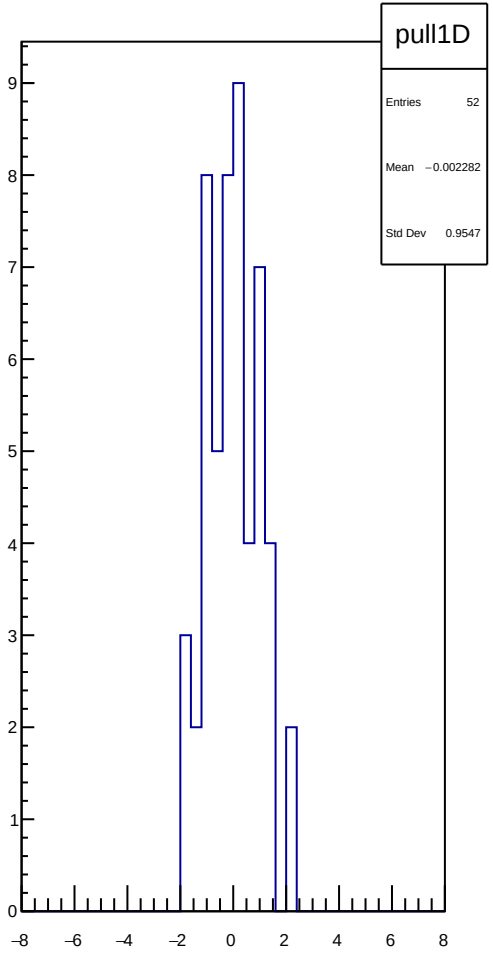

asym_sam8_correction_rms vs run
χ² / ndf 235.8 / 51
p0 3825 ± 3.855
4000
3950
3900
3850
3800
3750
3700
3650

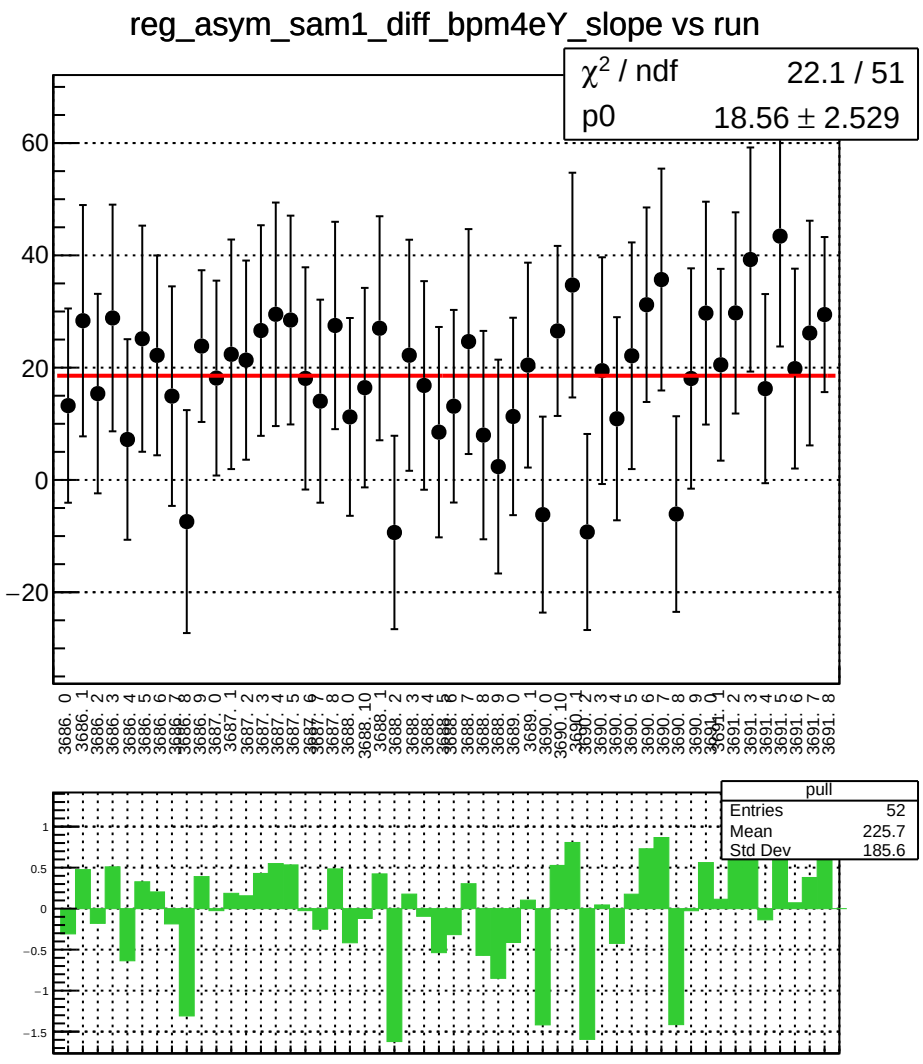

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 14.67 / 51
p0 −20.66 ± 2.187
pull
Entries 52
Mean 64.65
Std Dev 31.7
pull1D
Entries 52
Mean 0.01516
Std Dev 0.531

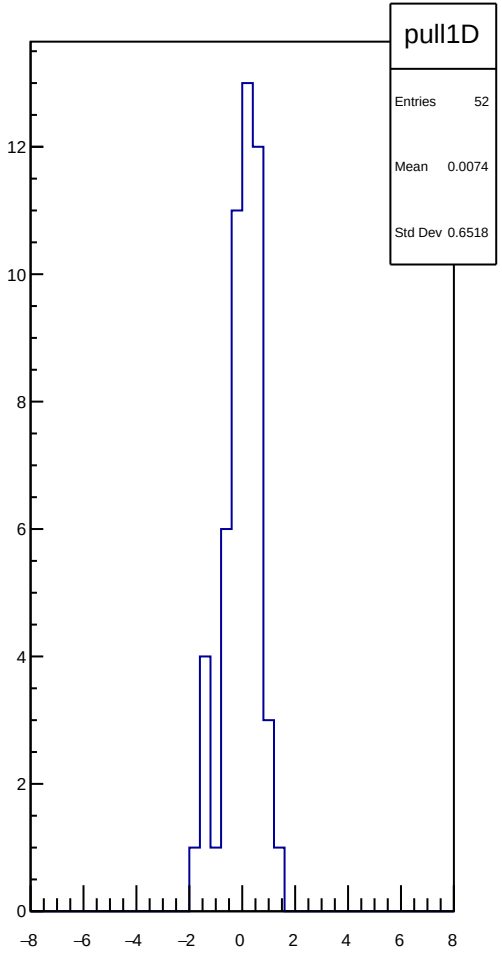

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 24.36 / 51
p0 −227.1± 1.62
pull
Entries 52
Mean 144
Std Dev 102.7

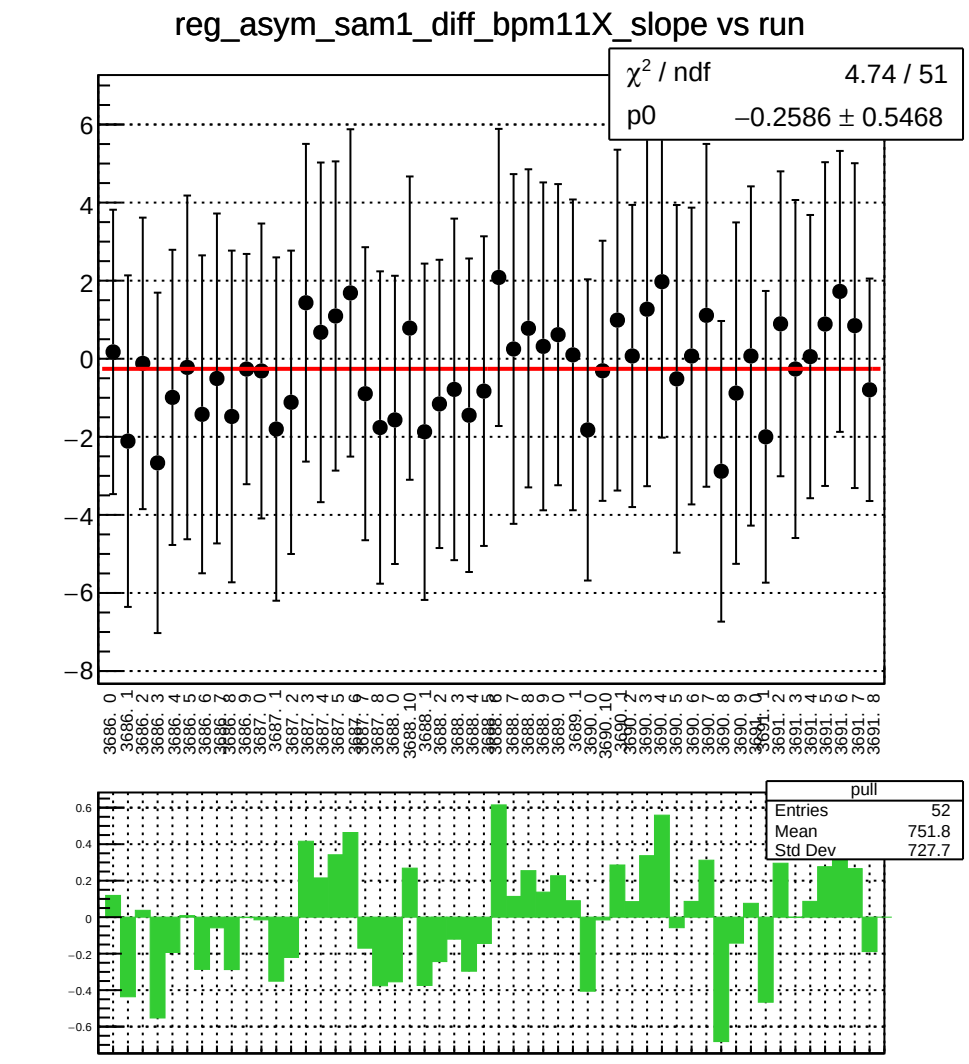

pull1D
Entries 52
Mean −0.01027
Std Dev 0.6844

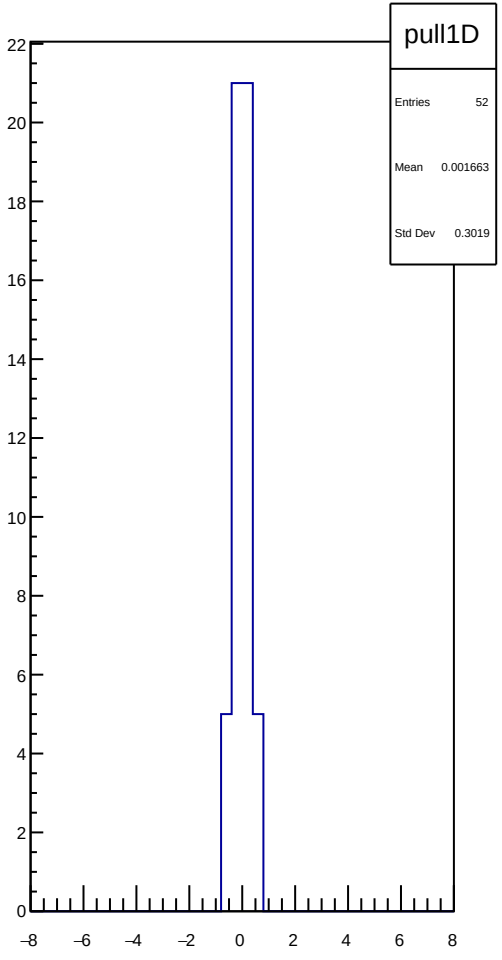

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 47.4 / 51
p0 13.26 ± 0.43
pull
Entries 52
Mean 2922
Std Dev 2891

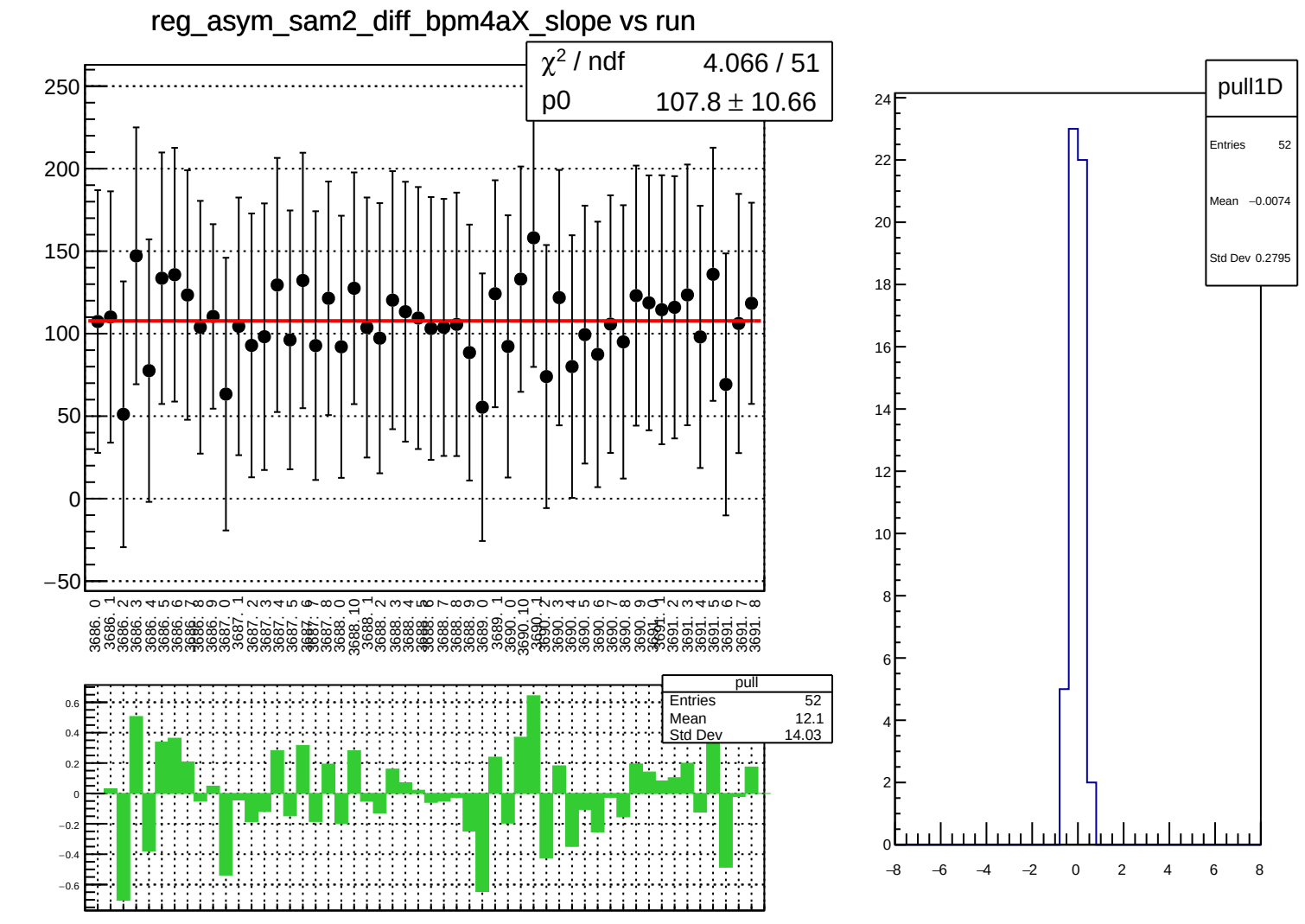

pull1D
Entries 52
Mean −0.002282
Std Dev 0.9547

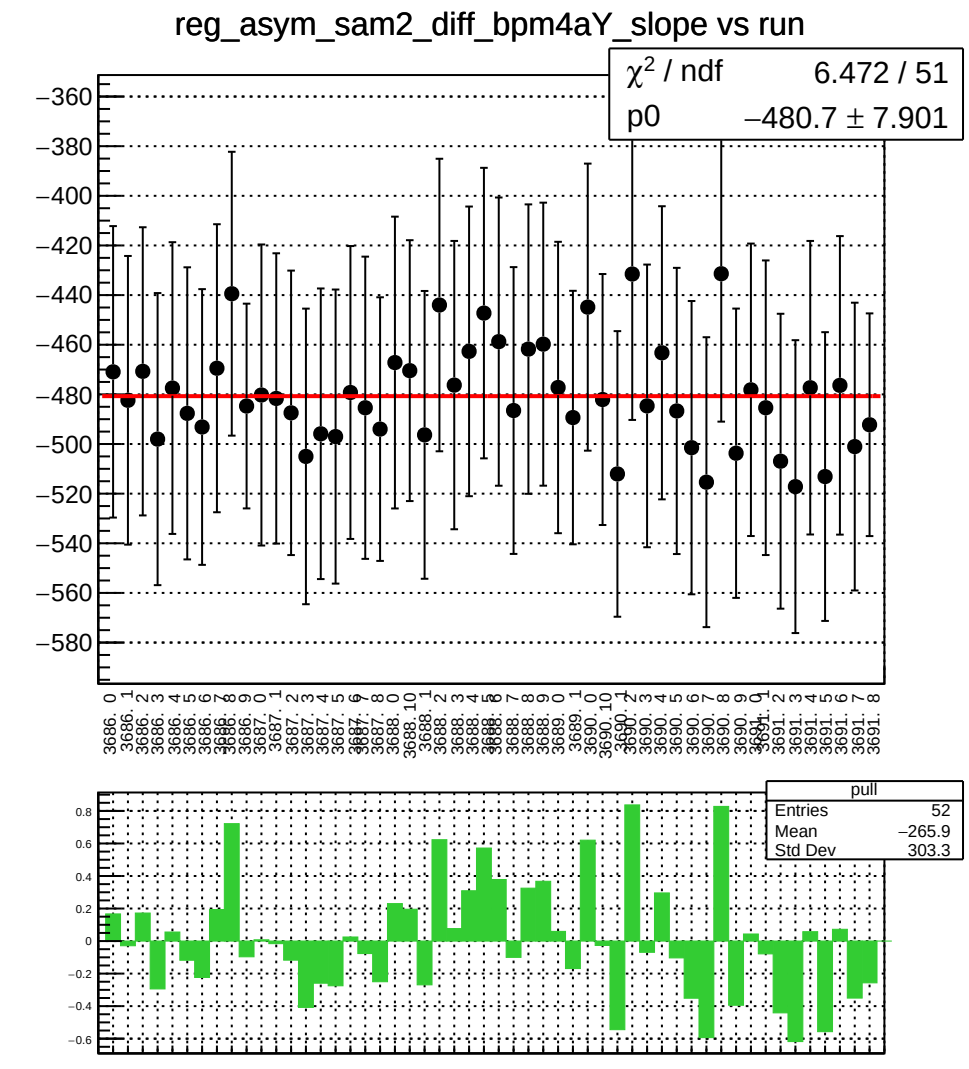

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 22.1 / 51
p0 18.56 ± 2.529
pull
Entries 52
Mean 225.7
Std Dev 185.6

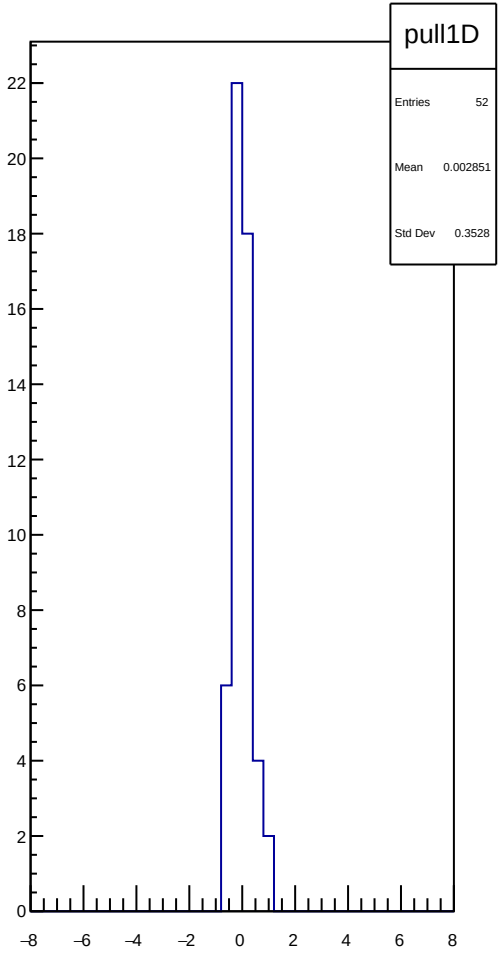

pull1D
Entries 52
Mean 0.0074
Std Dev 0.6518

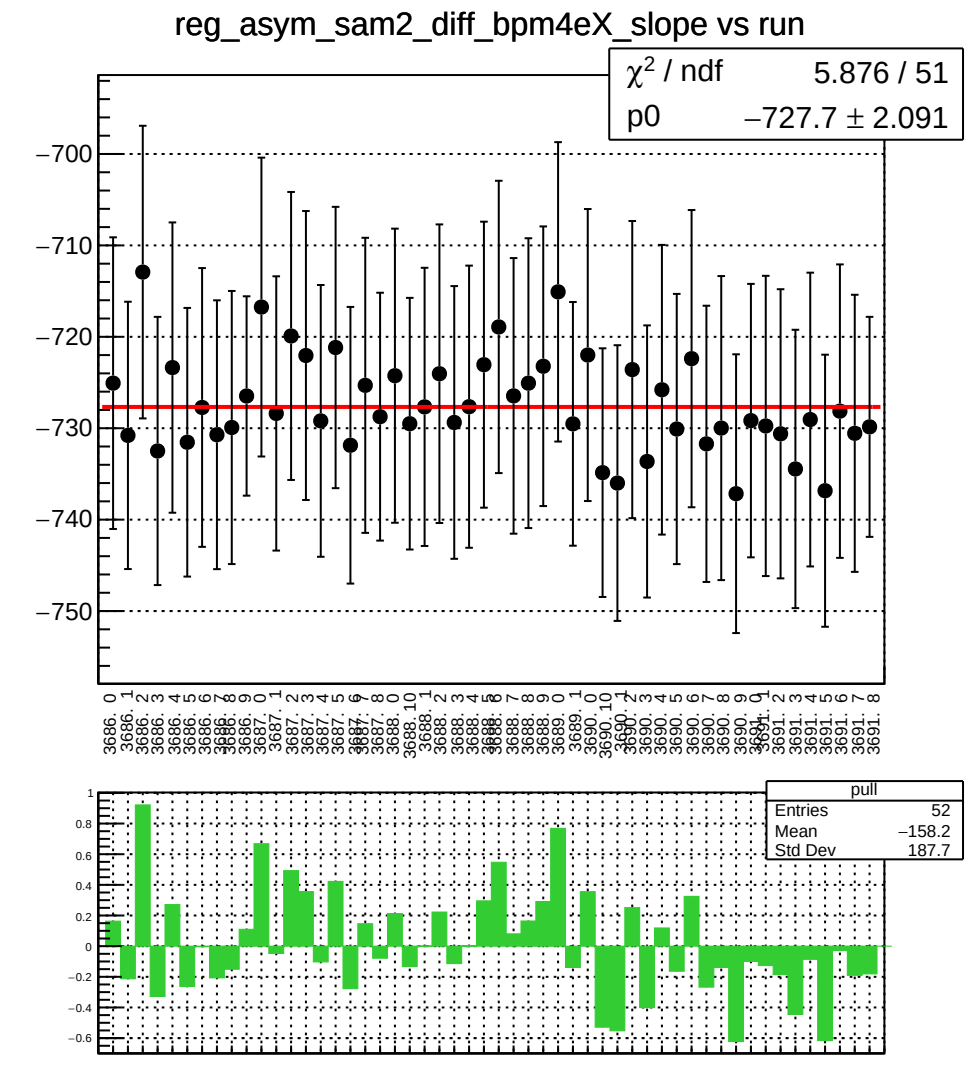

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 4.74 / 51
p0 −0.2586 ± 0.5468
pull
Entries 52
Mean 751.8
Std Dev 727.7

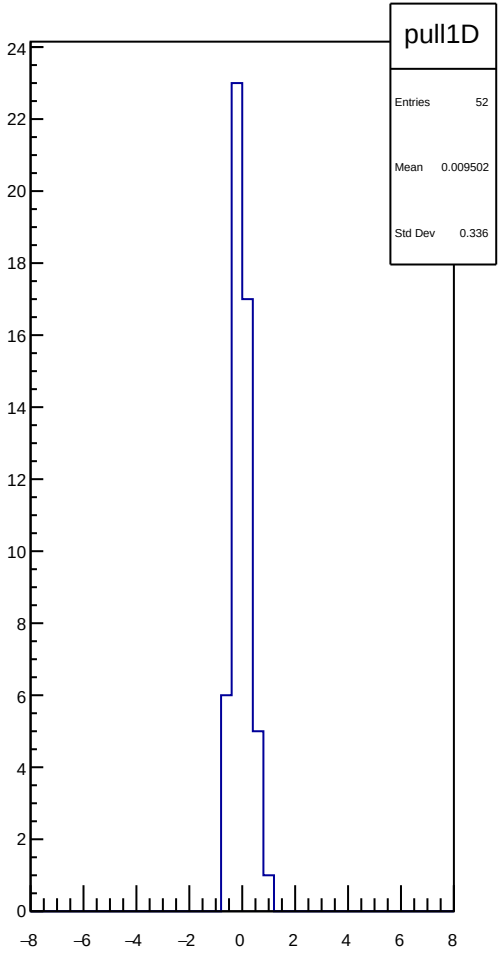

pull1D
Entries 52
Mean 0.001663
Std Dev 0.3019

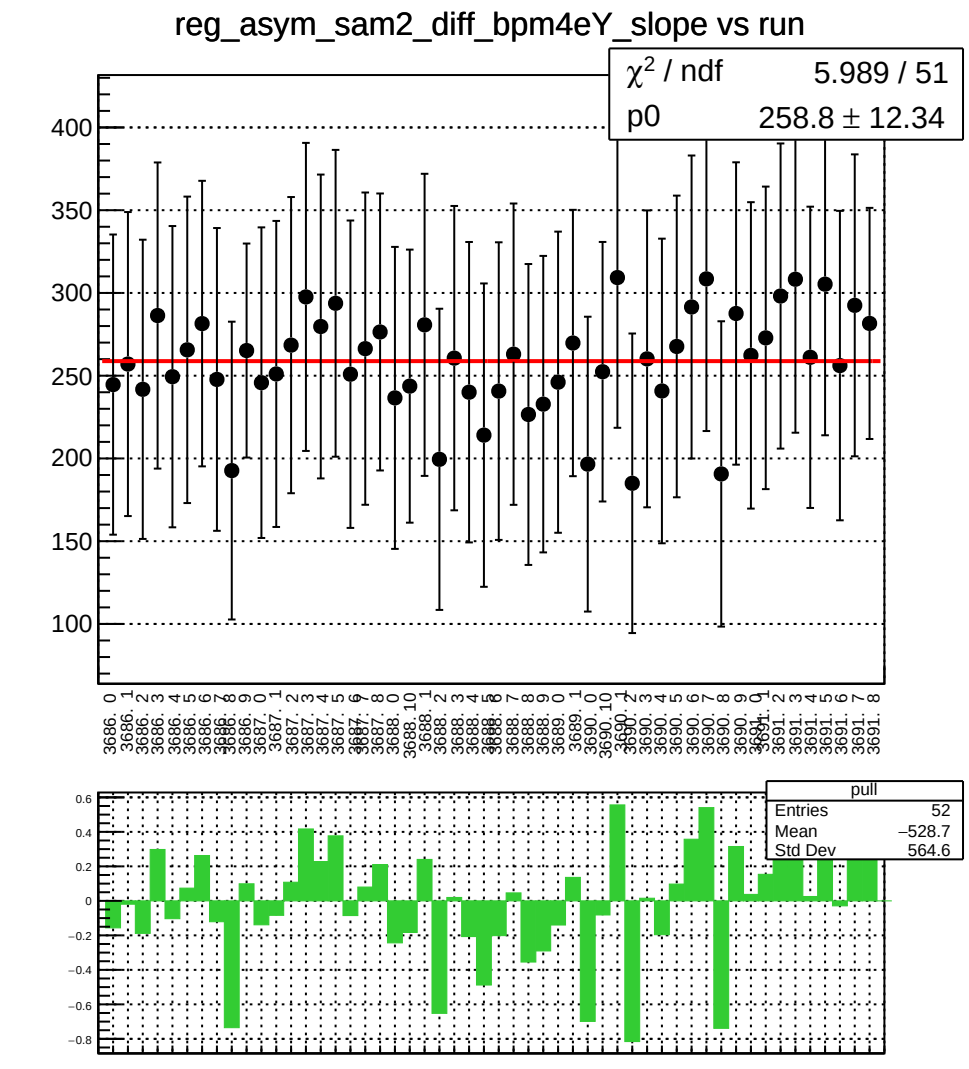

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 4.066 / 51
p0 107.8 ± 10.66
pull
Entries 52
Mean 12.1
Std Dev 14.03
pull1D
Entries 52
Mean −0.0074
Std Dev 0.2795

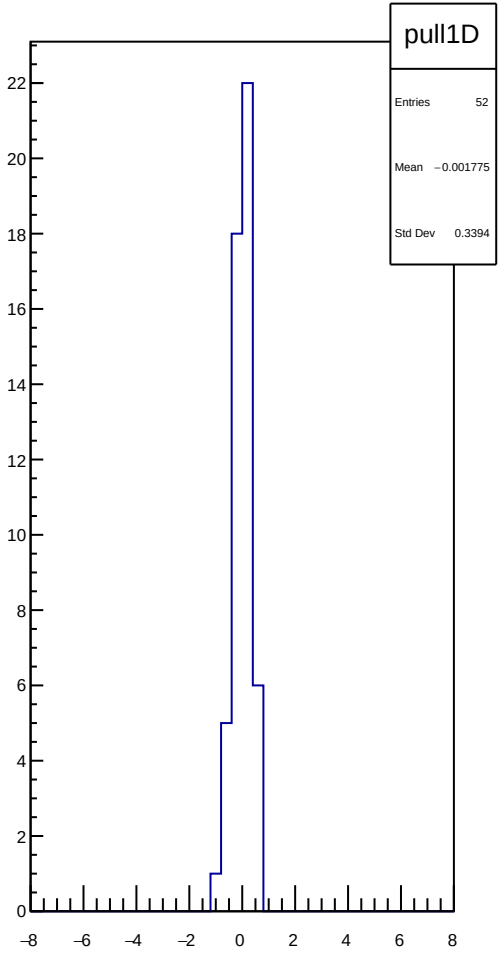

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 6.472 / 51
p0 −480.7 ± 7.901
pull
Entries 52
Mean −265.9
Std Dev 303.3

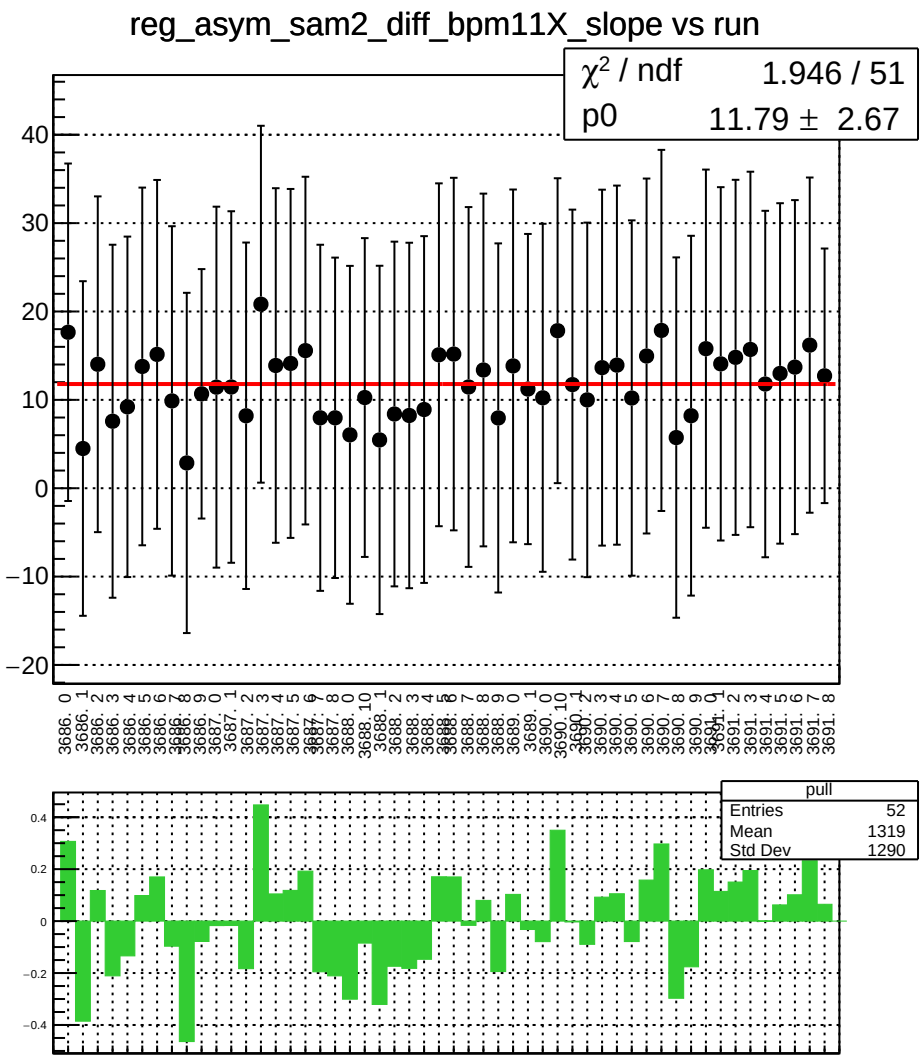

pull1D
Entries 52
Mean 0.002851
Std Dev 0.3528

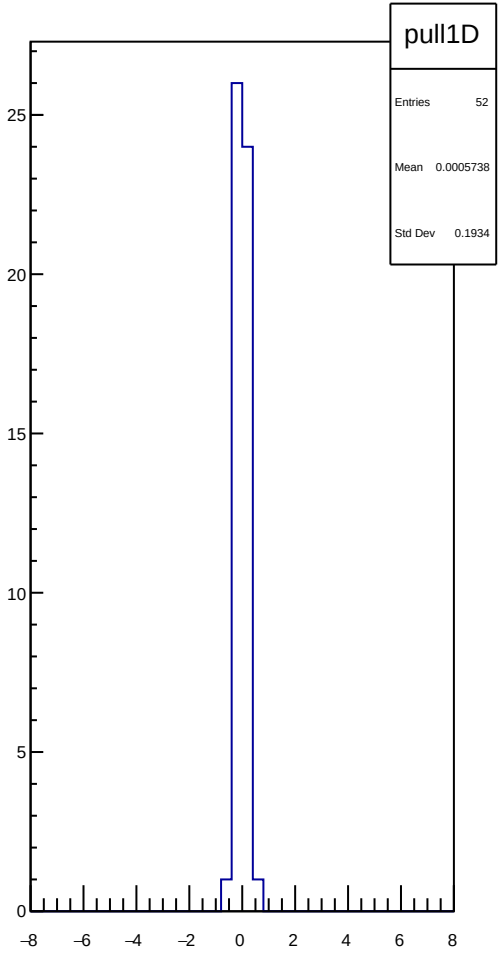

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 5.876 / 51
p0 −727.7 ± 2.091
pull
Entries 52
Mean −158.2
Std Dev 187.7

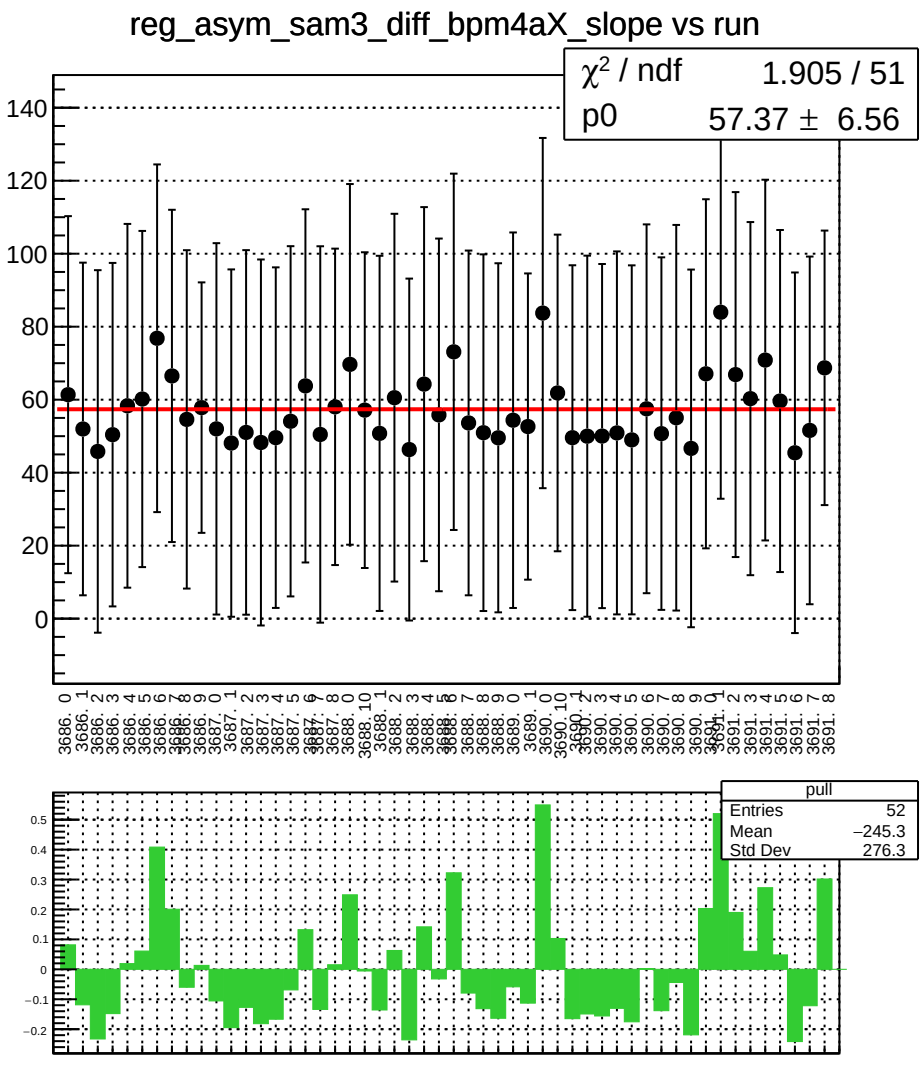

pull1D
Entries 52
Mean 0.009502
Std Dev 0.336

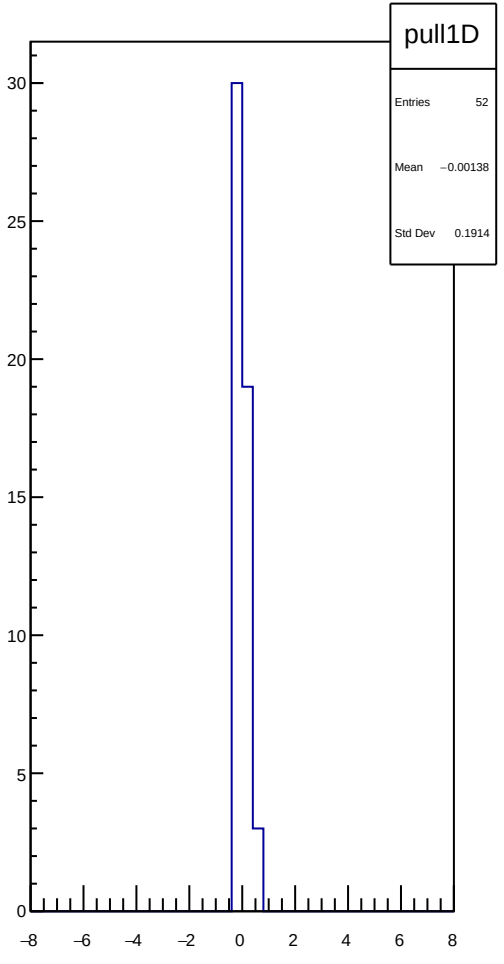

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 5.989 / 51
p0 258.8 ± 12.34
pull
Entries 52
Mean −528.7
Std Dev 564.6

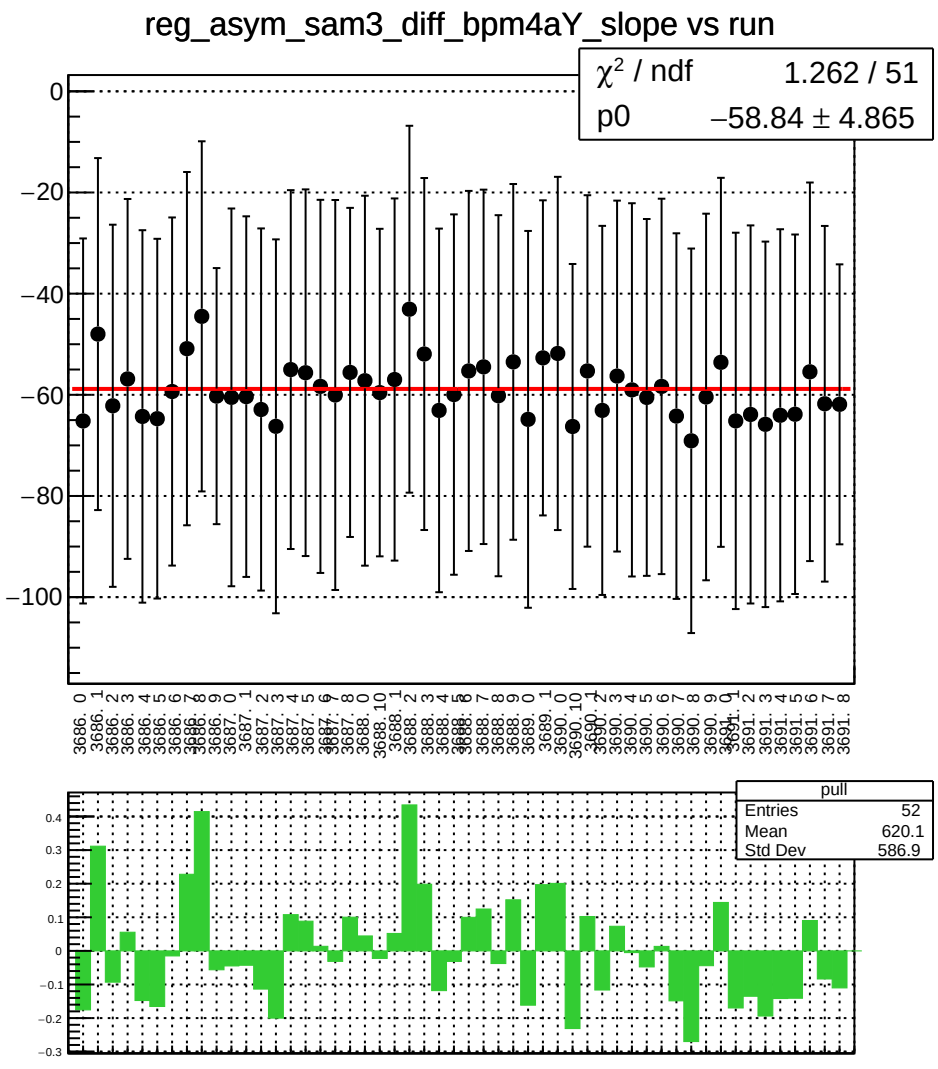

pull1D
Entries 52
Mean −0.001775
Std Dev 0.3394

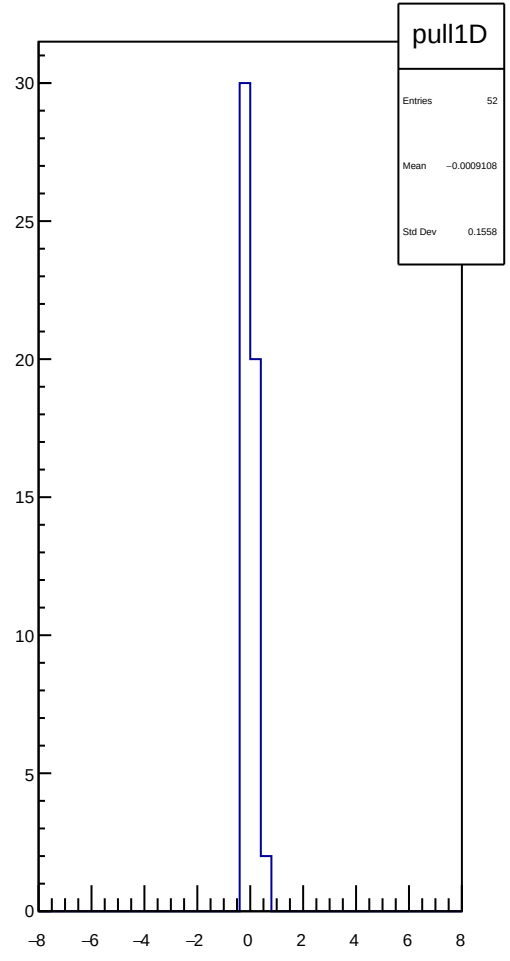

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 1.946 / 51
p0 11.79 ± 2.67
pull
Entries 52
Mean 1319
Std Dev 1290

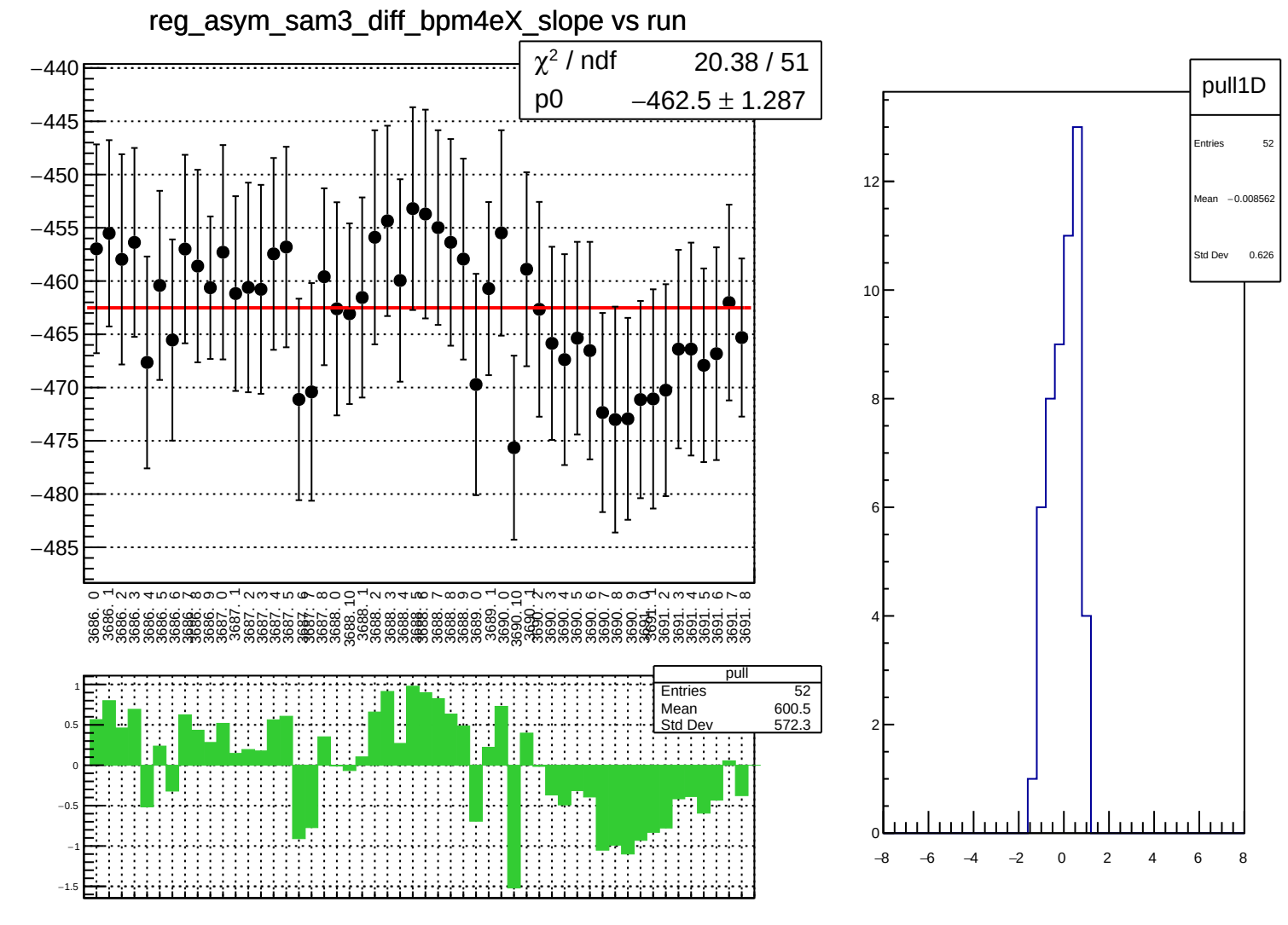

pull1D
Entries 52
Mean 0.0005738
Std Dev 0.1934

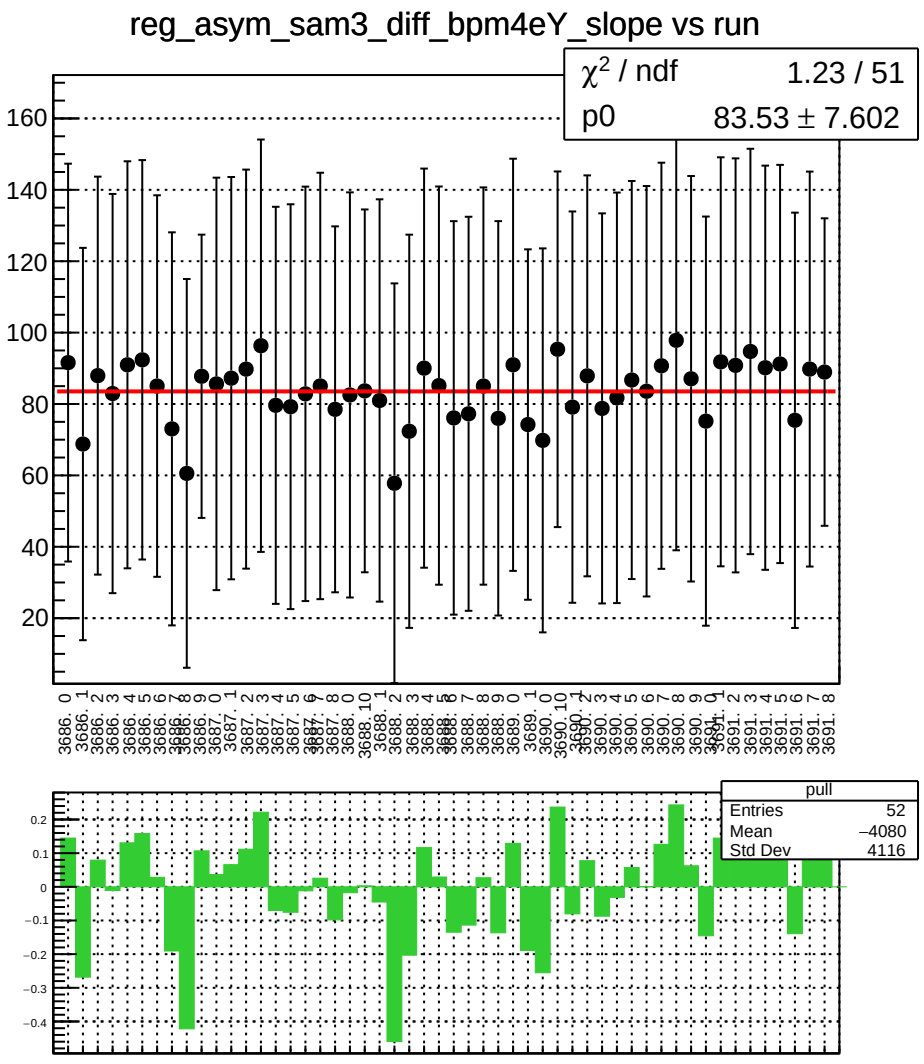

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 1.905 / 51
p0 57.37 ± 6.56
pull
Entries 52
Mean −245.3
Std Dev 276.3

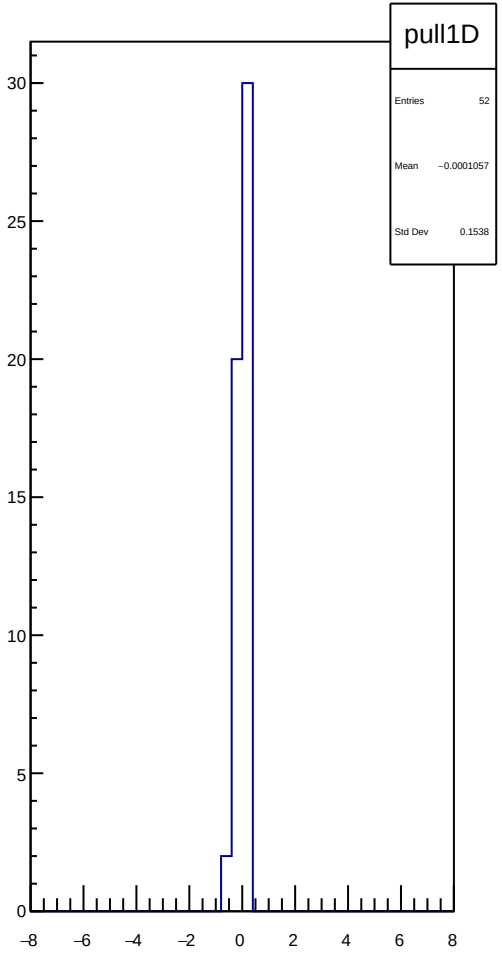

pull1D
Entries 52
Mean −0.00138
Std Dev 0.1914

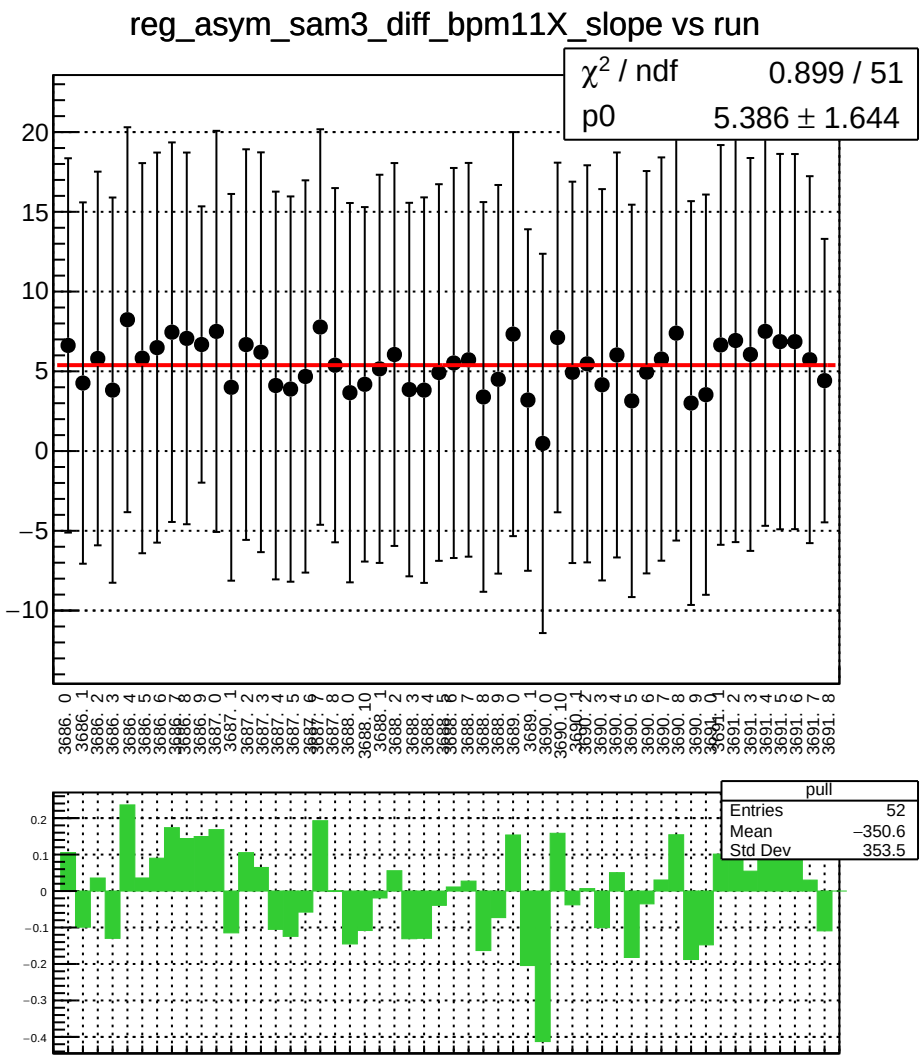

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.262 / 51
p0 −58.84 ± 4.865
pull
Entries 52
Mean 620.1
Std Dev 586.9

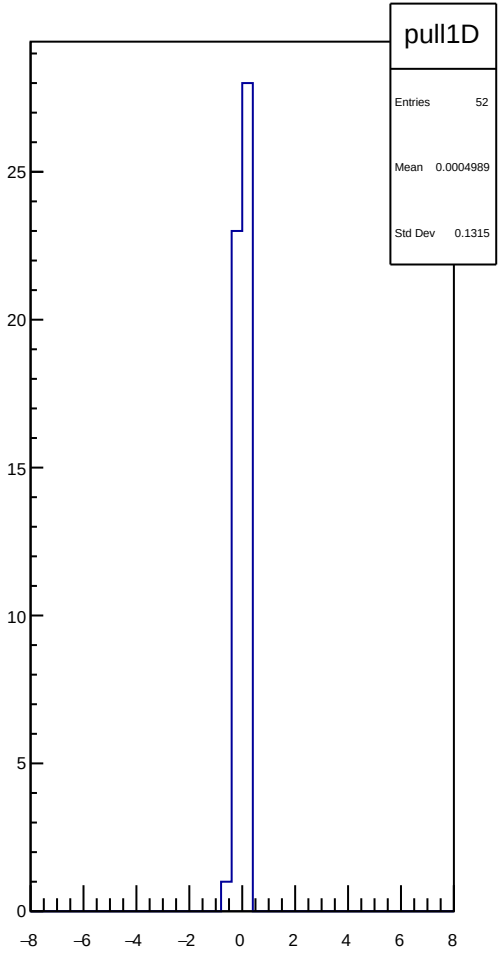

pull1D
Entries 52
Mean −0.0009108
Std Dev 0.1558

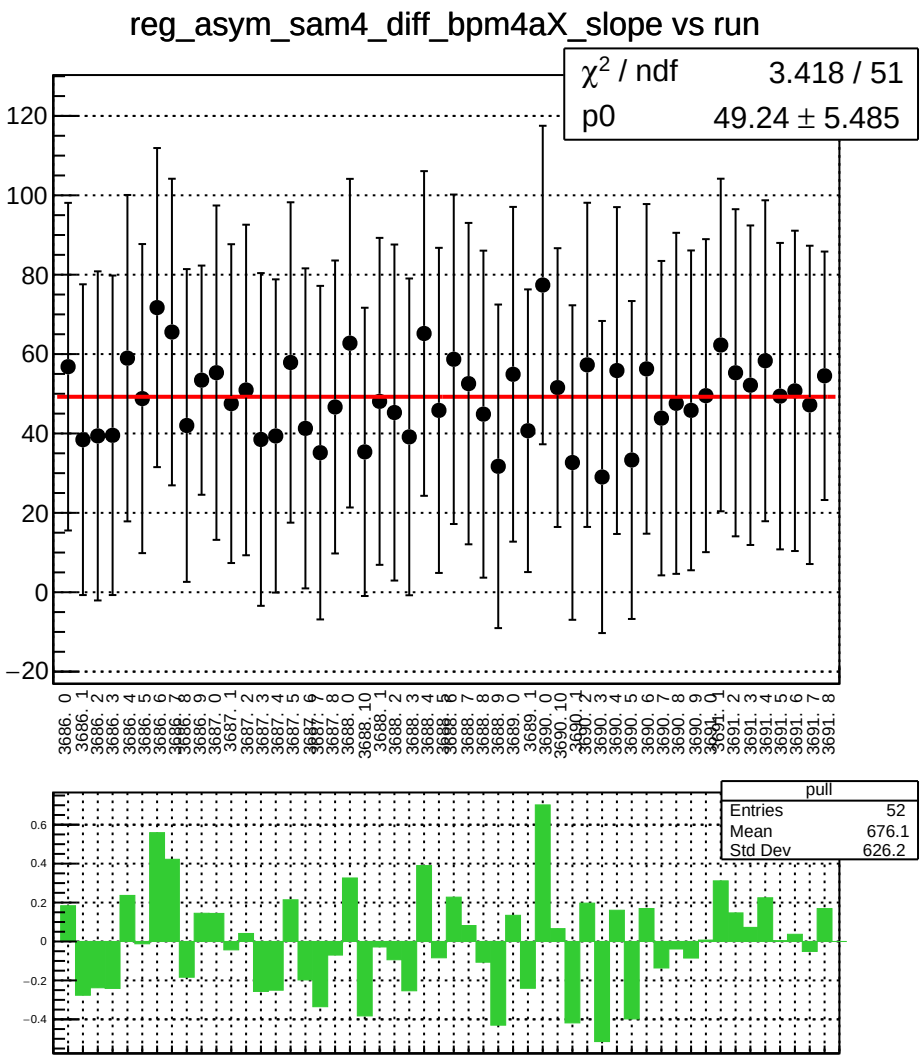

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 20.38 / 51
p0 −462.5 ± 1.287
pull
Entries 52
Mean 600.5
Std Dev 572.3
pull1D
Entries 52
Mean −0.008562
Std Dev 0.626

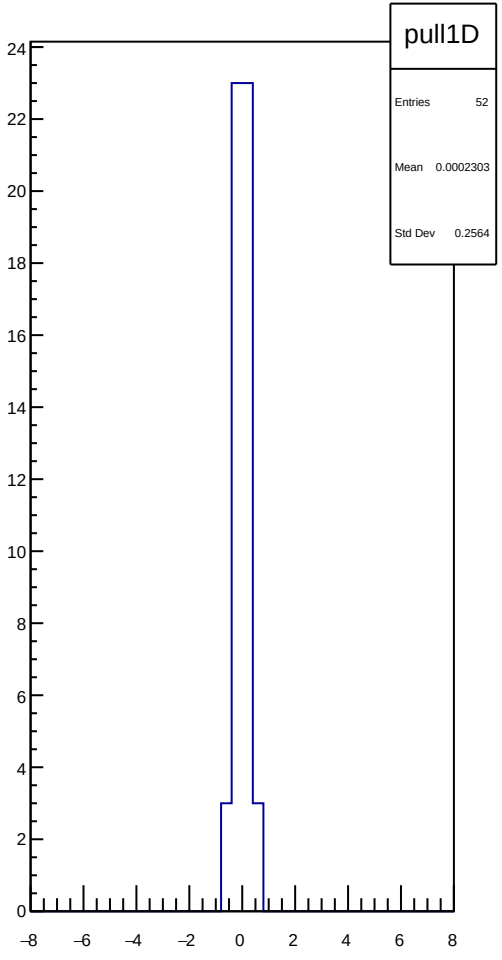

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.23 / 51
p0 83.53 ± 7.602
pull
Entries 52
Mean −4080
Std Dev 4116

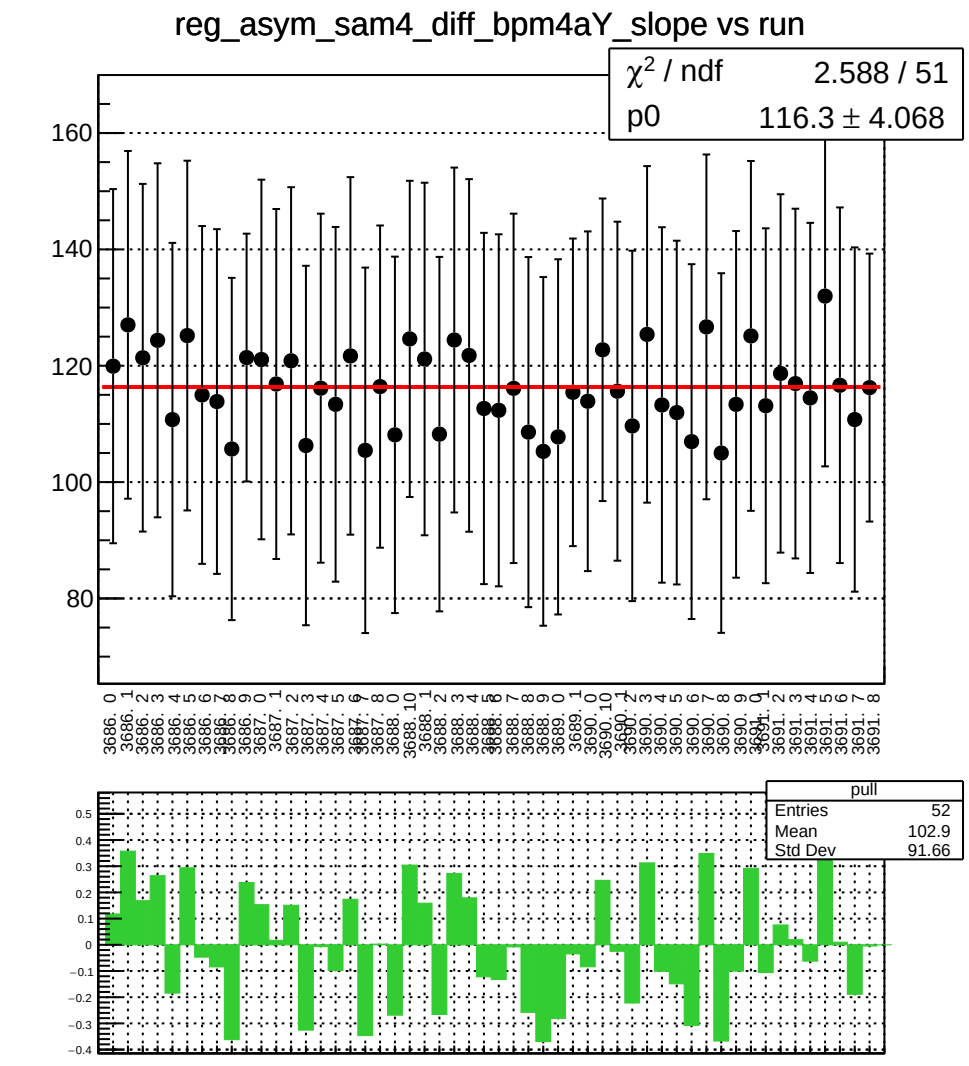

pull1D
Entries 52
Mean −0.0001057
Std Dev 0.1538

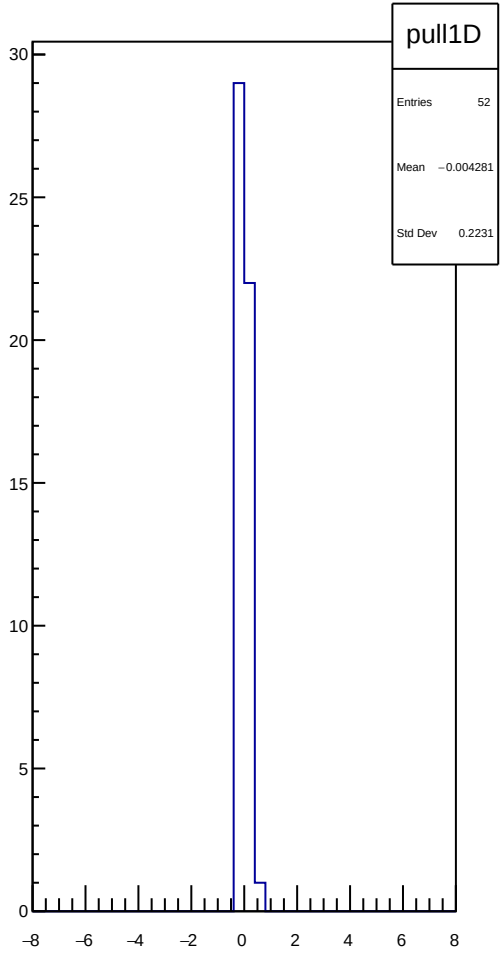

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 0.899 / 51
p0 5.386 ± 1.644
pull
Entries 52
Mean −350.6
Std Dev 353.5

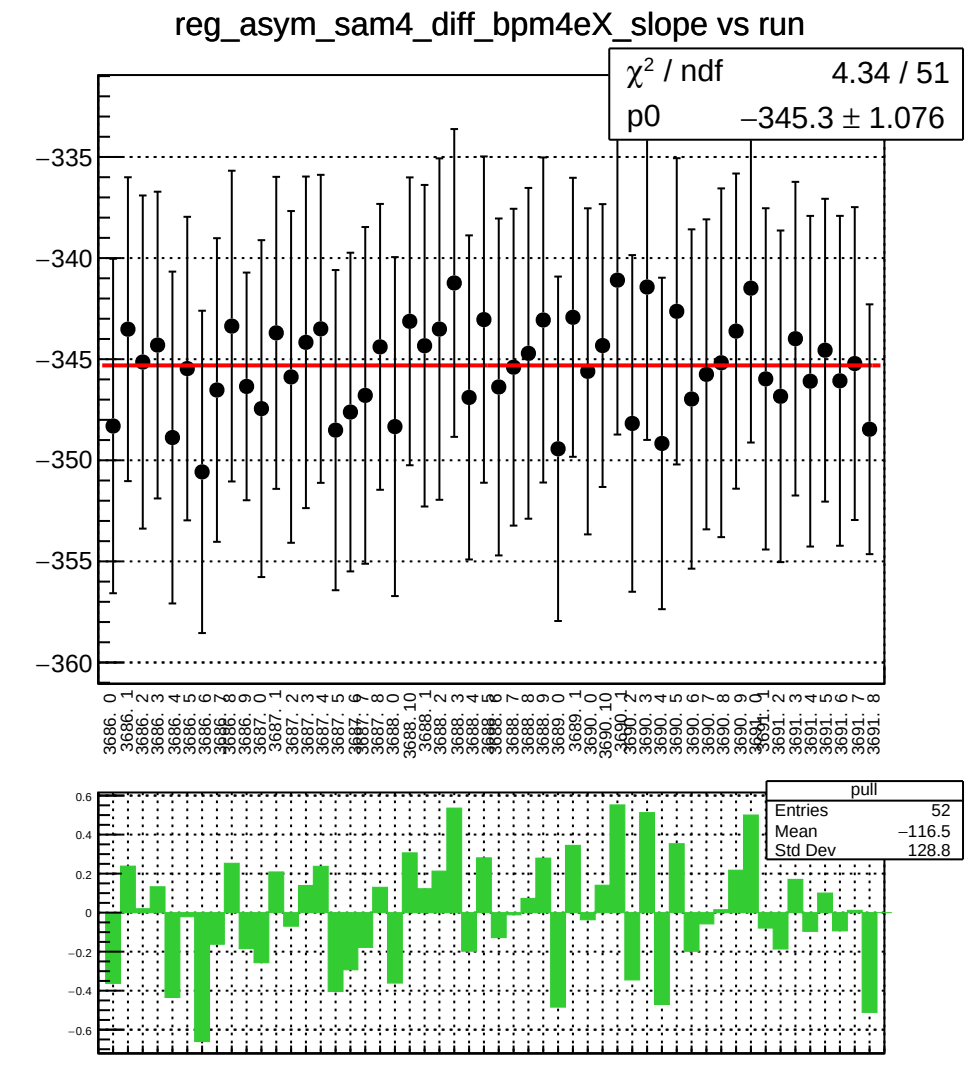

pull1D
Entries 52
Mean 0.0004989
Std Dev 0.1315

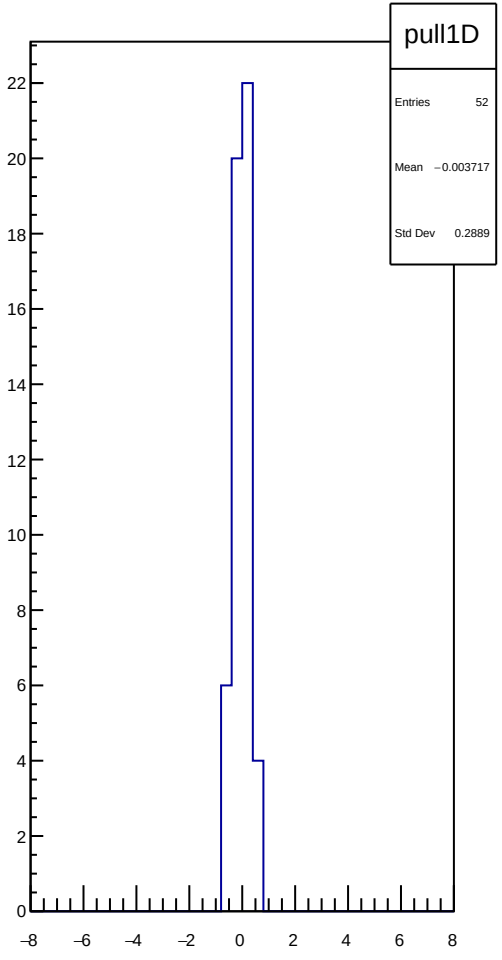

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 3.418 / 51
p0 49.24 ± 5.485
pull
Entries 52
Mean 676.1
Std Dev 626.2

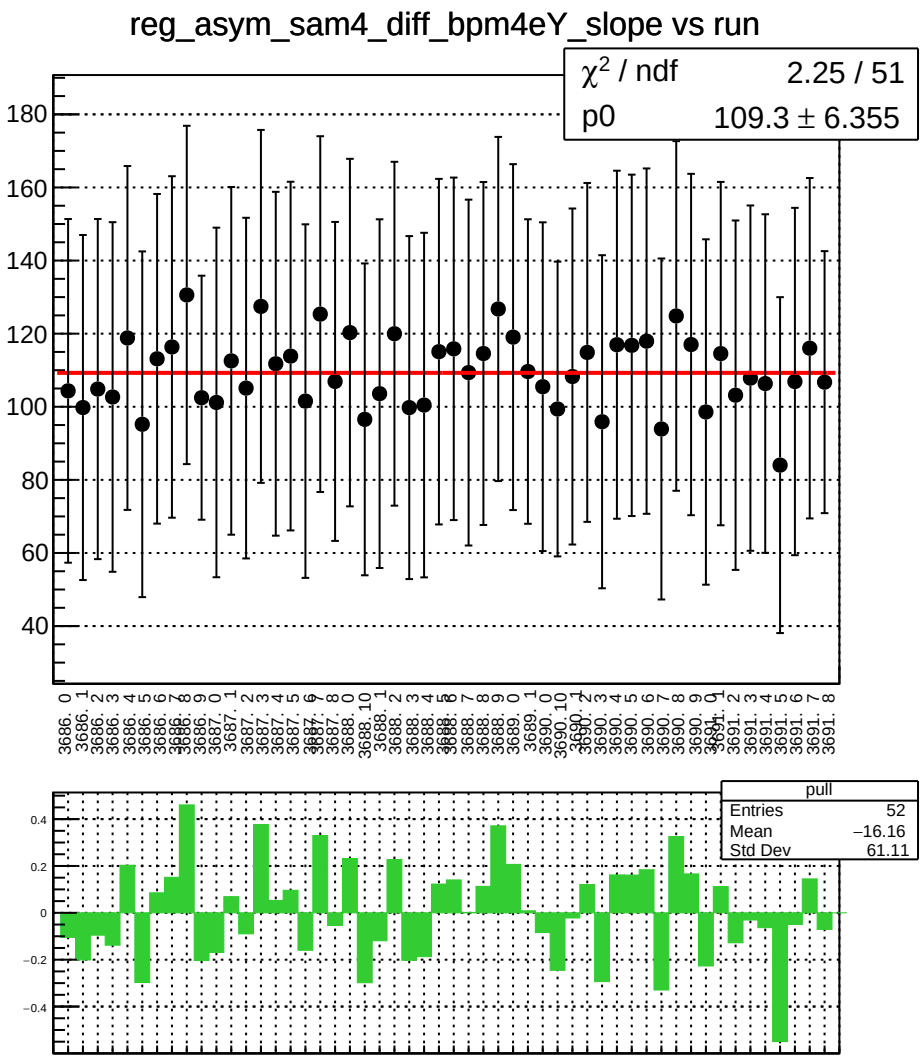

pull1D
Entries 52
Mean 0.0002303
Std Dev 0.2564

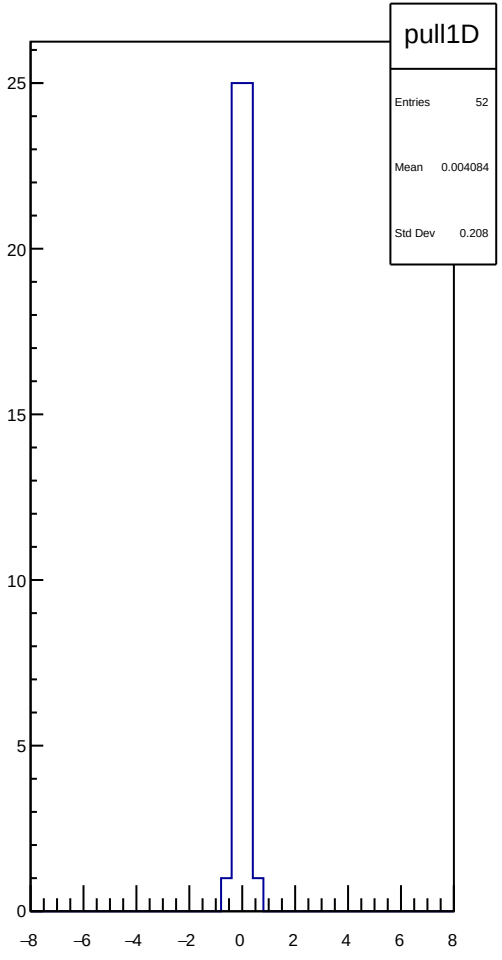

reg_asym_sam4_diff_bpm4aY_slope vs run
χ^2 / ndf 2.588 / 51
p0 116.3 ± 4.068
160
140
120
100
80
pull
Entries 52
Mean 102.9
Std Dev 91.66
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

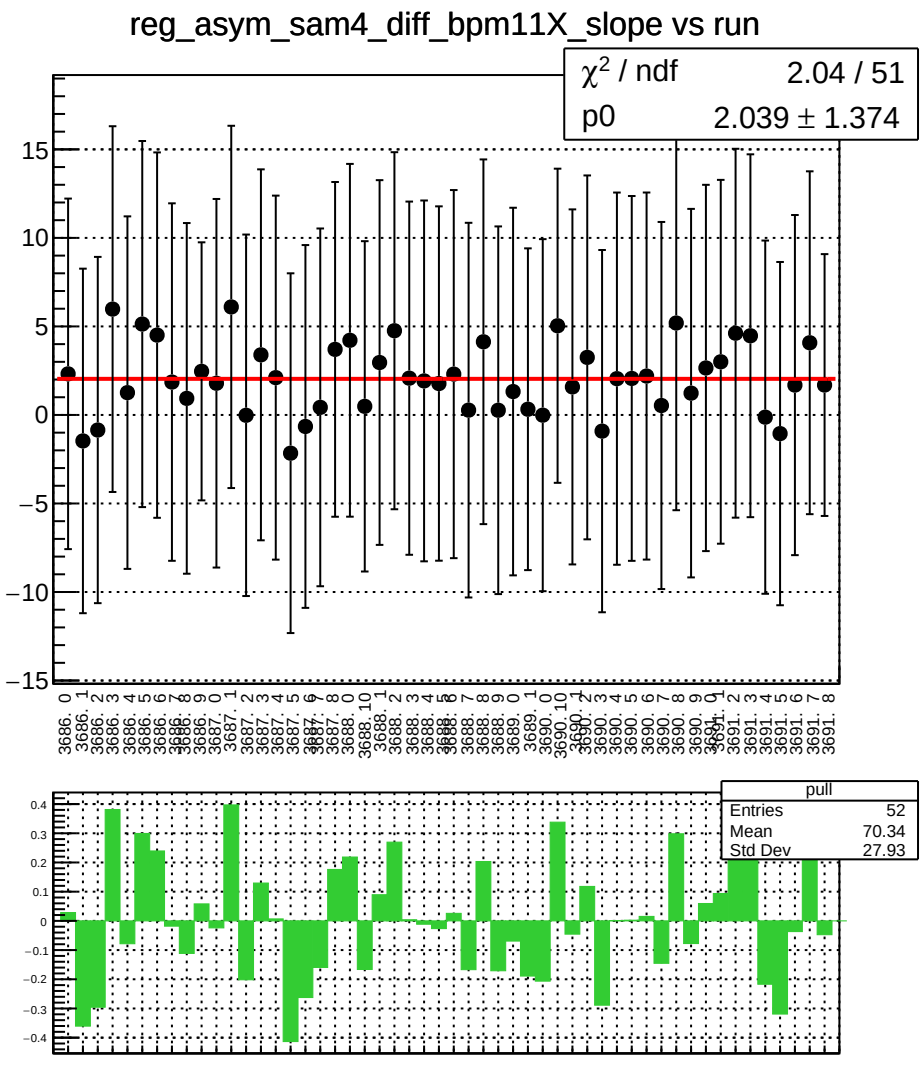

pull1D
Entries 52
Mean −0.004281
Std Dev 0.2231
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

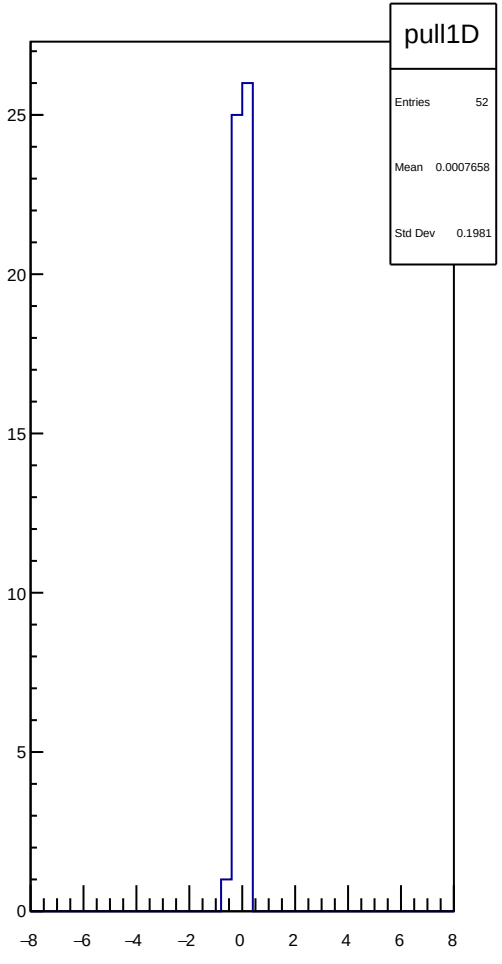

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 4.34 / 51
p0 −345.3 ± 1.076
pull
Entries 52
Mean −116.5
Std Dev 128.8

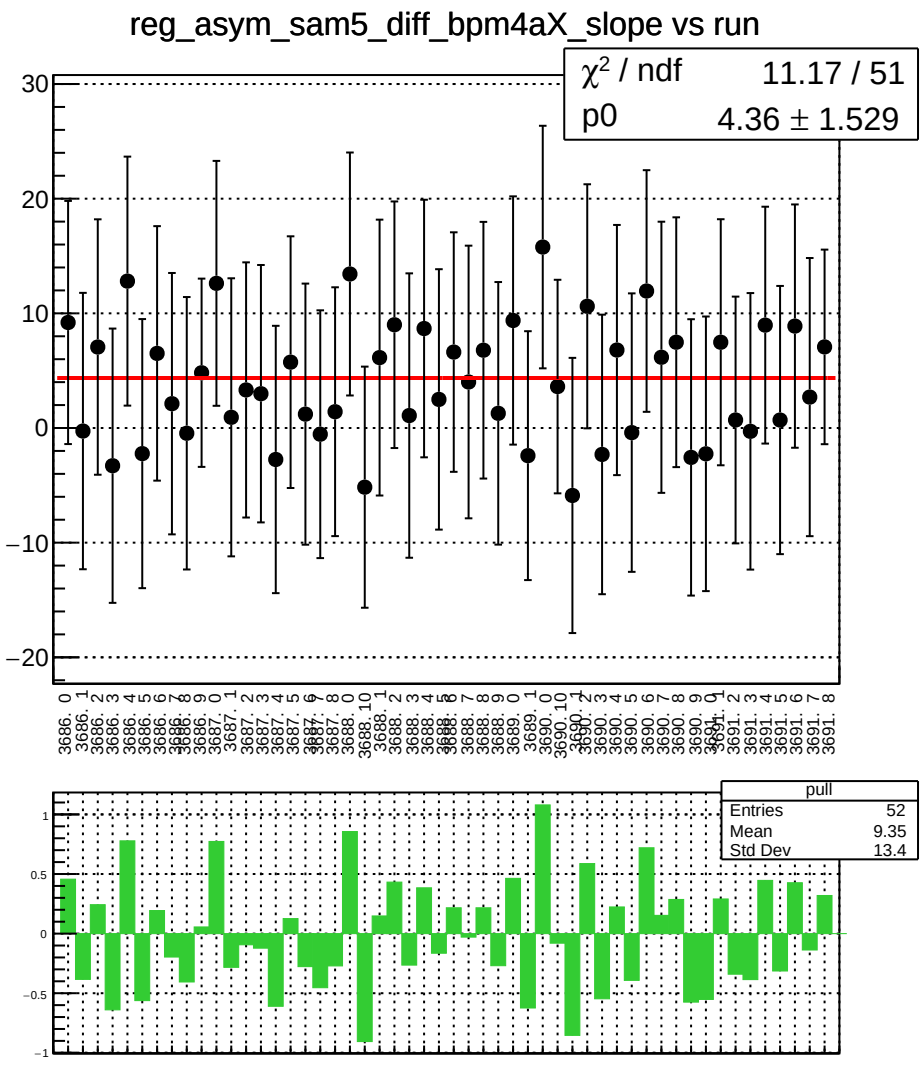

pull1D
Entries 52
Mean −0.003717
Std Dev 0.2889

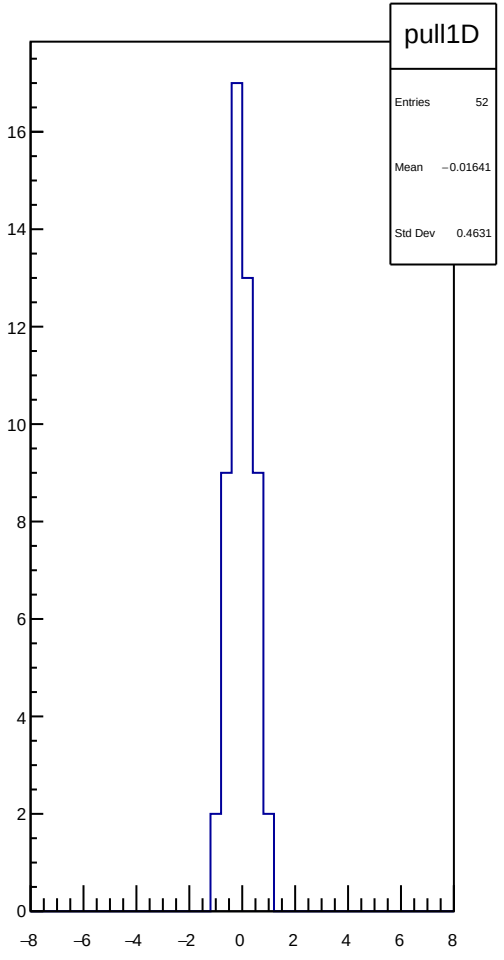

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 2.25 / 51
p0 109.3 ± 6.355
pull
Entries 52
Mean −16.16
Std Dev 61.11

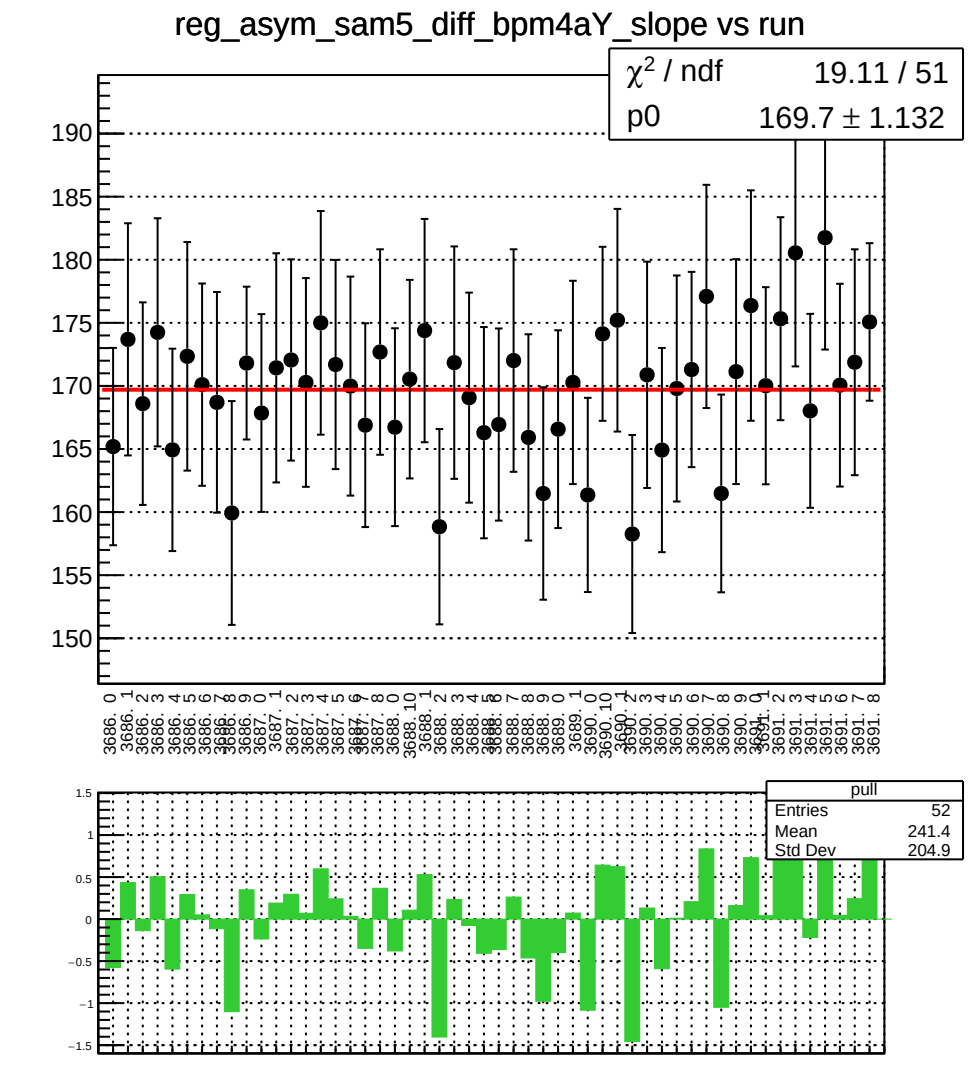

pull1D
Entries 52
Mean 0.004084
Std Dev 0.208

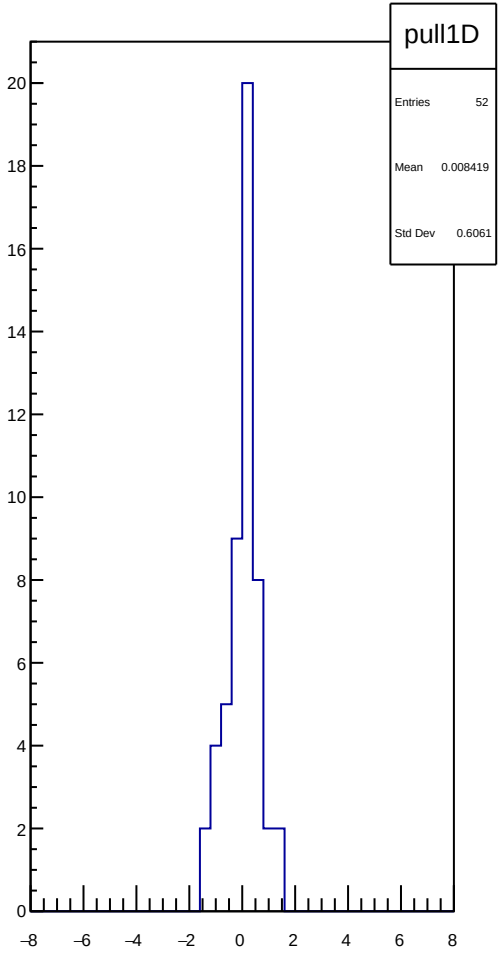

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 2.04 / 51
p0 2.039 ± 1.374
pull
Entries 52
Mean 70.34
Std Dev 27.93

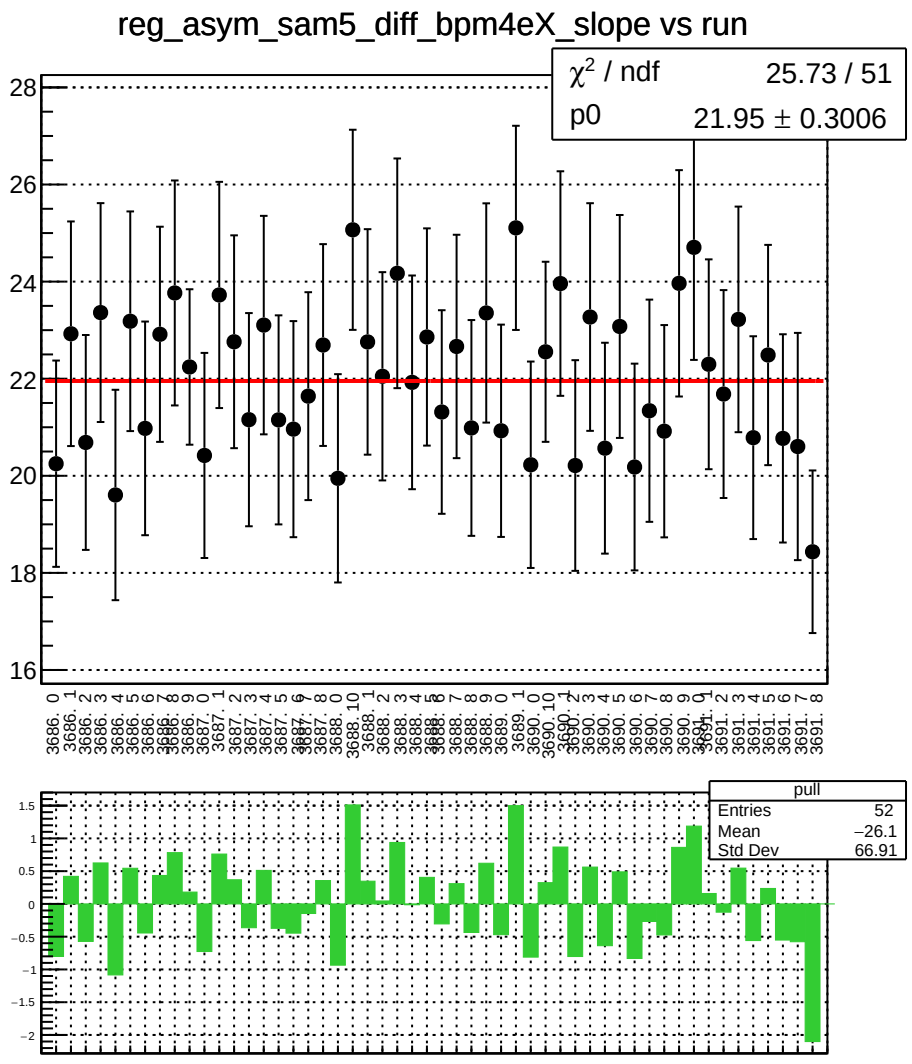

pull1D
Entries 52
Mean 0.0007658
Std Dev 0.1981

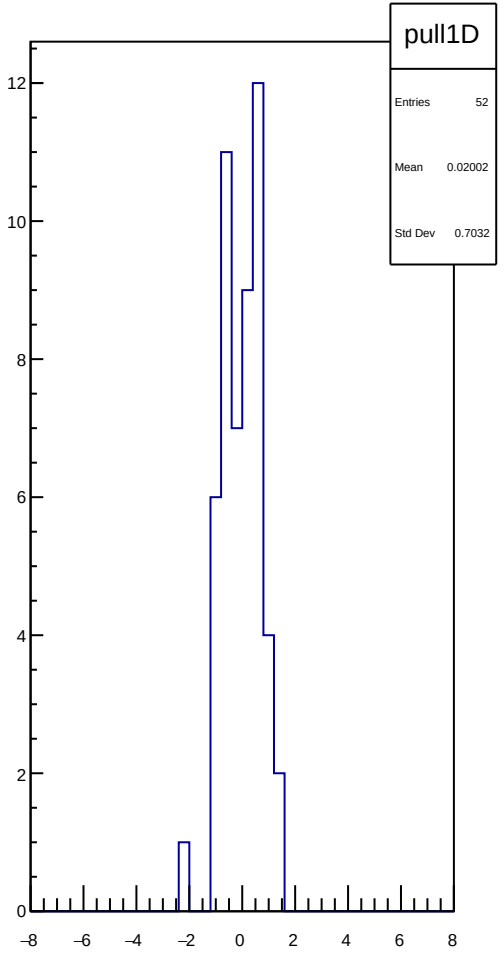

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 11.17 / 51
p0 4.36 ± 1.529
pull
Entries 52
Mean 9.35
Std Dev 13.4

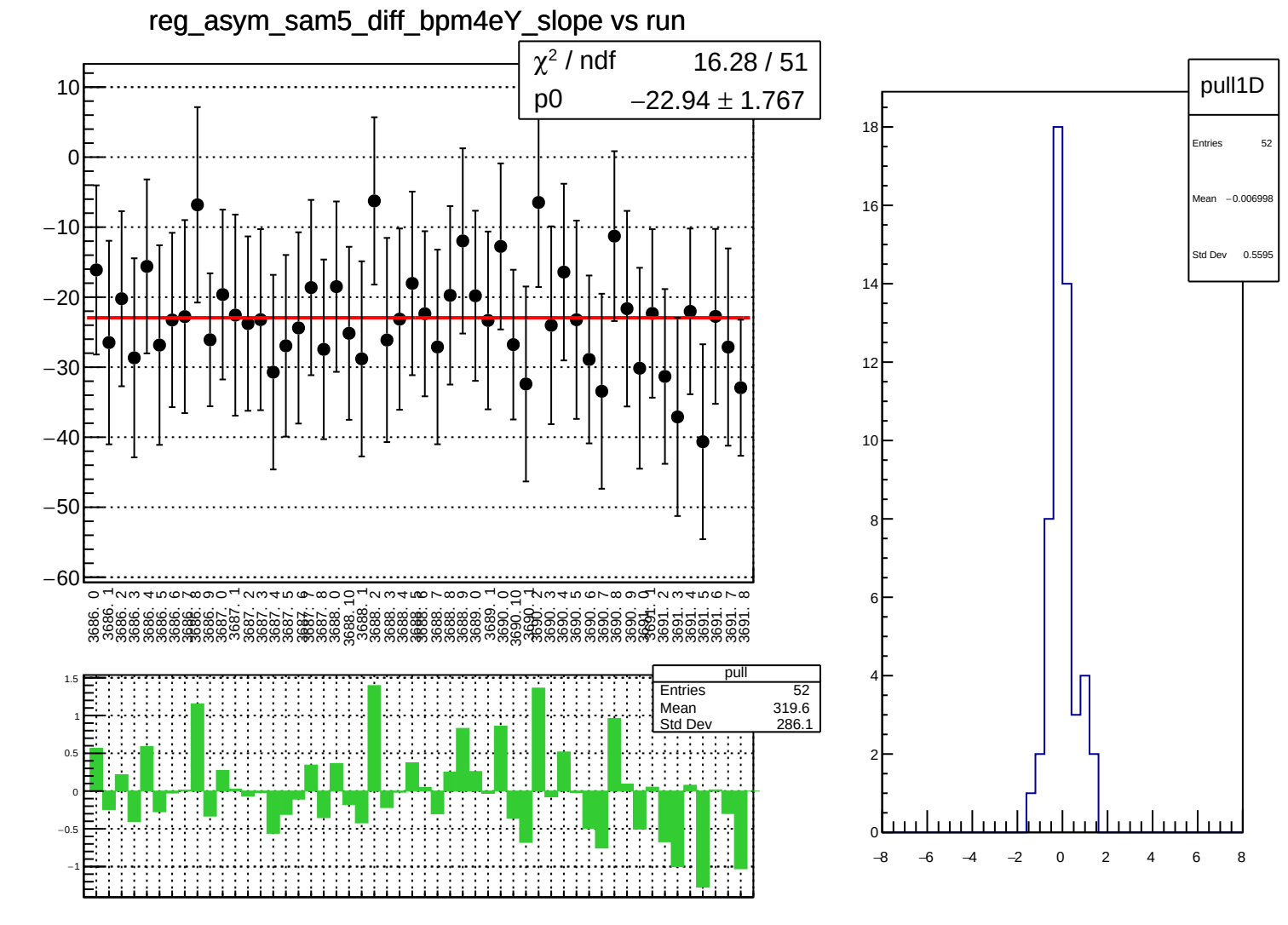

pull1D
Entries 52
Mean −0.01641
Std Dev 0.4631

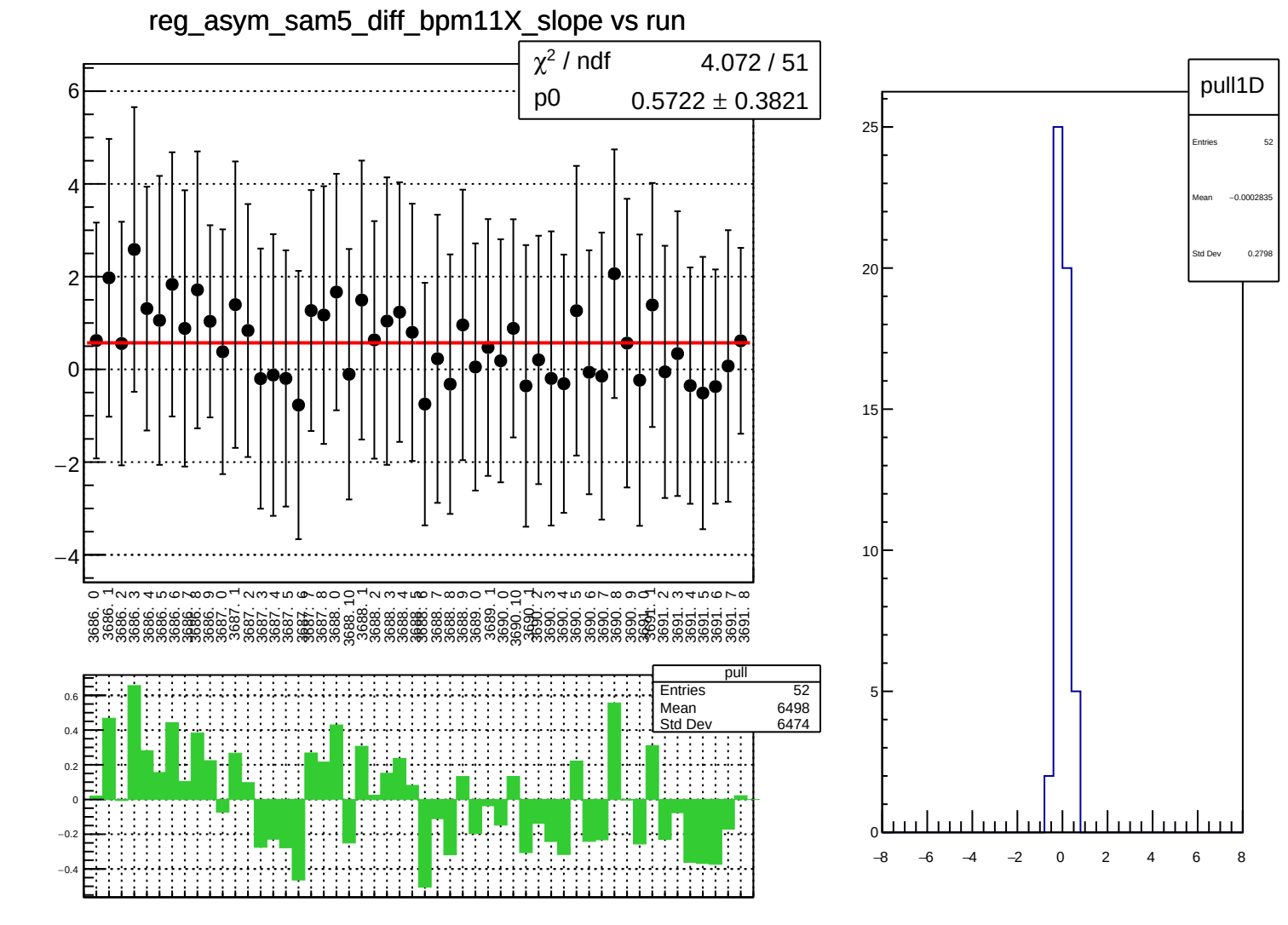

reg_asym_sam5_diff_bpm4aY_slope vs run
χ^2 / ndf 19.11 / 51
p0 169.7 ± 1.132
pull
Entries 52
Mean 241.4
Std Dev 204.9

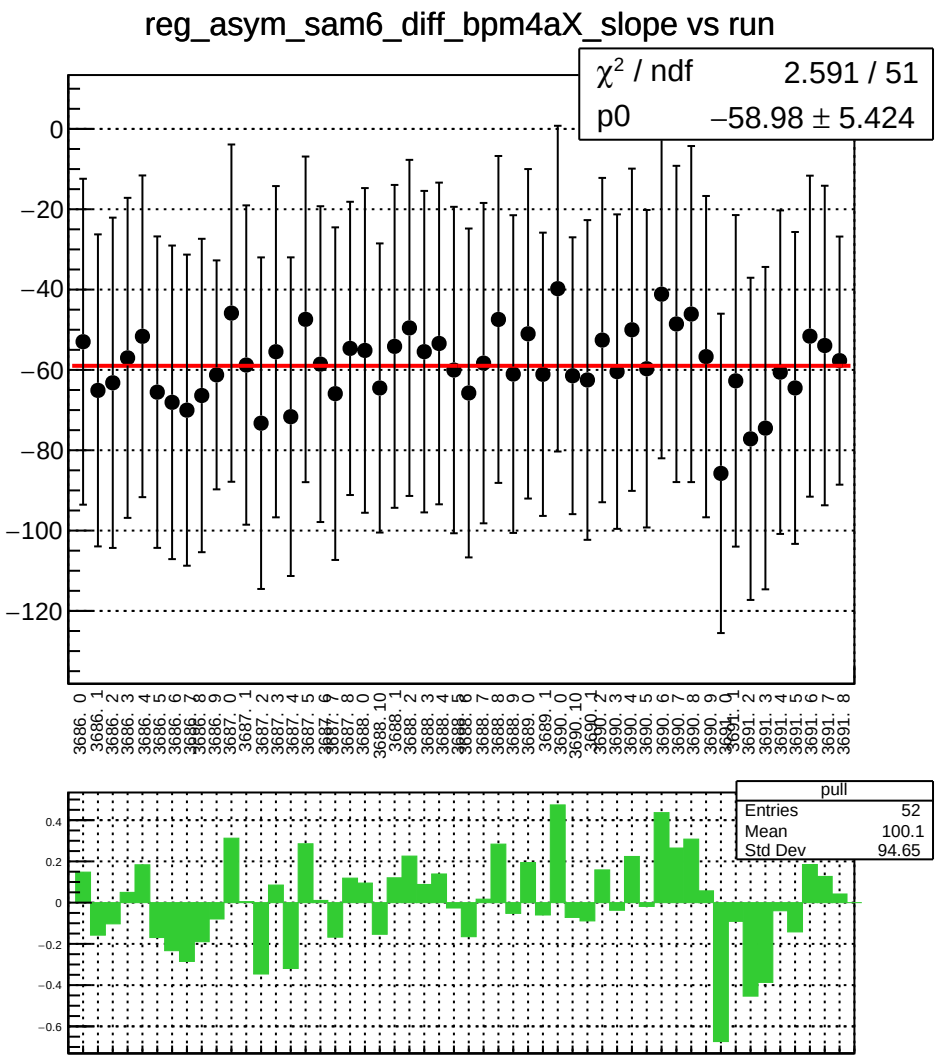

pull1D
Entries 52
Mean 0.008419
Std Dev 0.6061

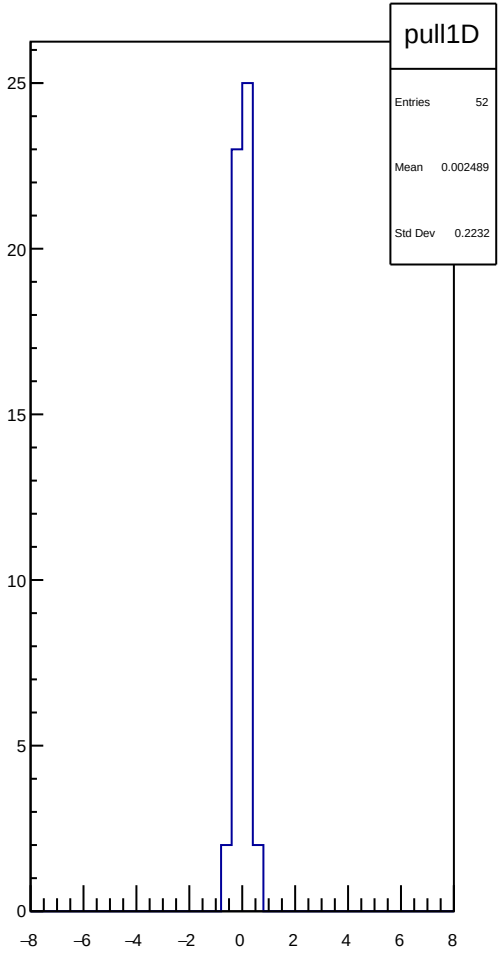

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 25.73 / 51
p0 21.95 ± 0.3006
pull
Entries 52
Mean −26.1
Std Dev 66.91

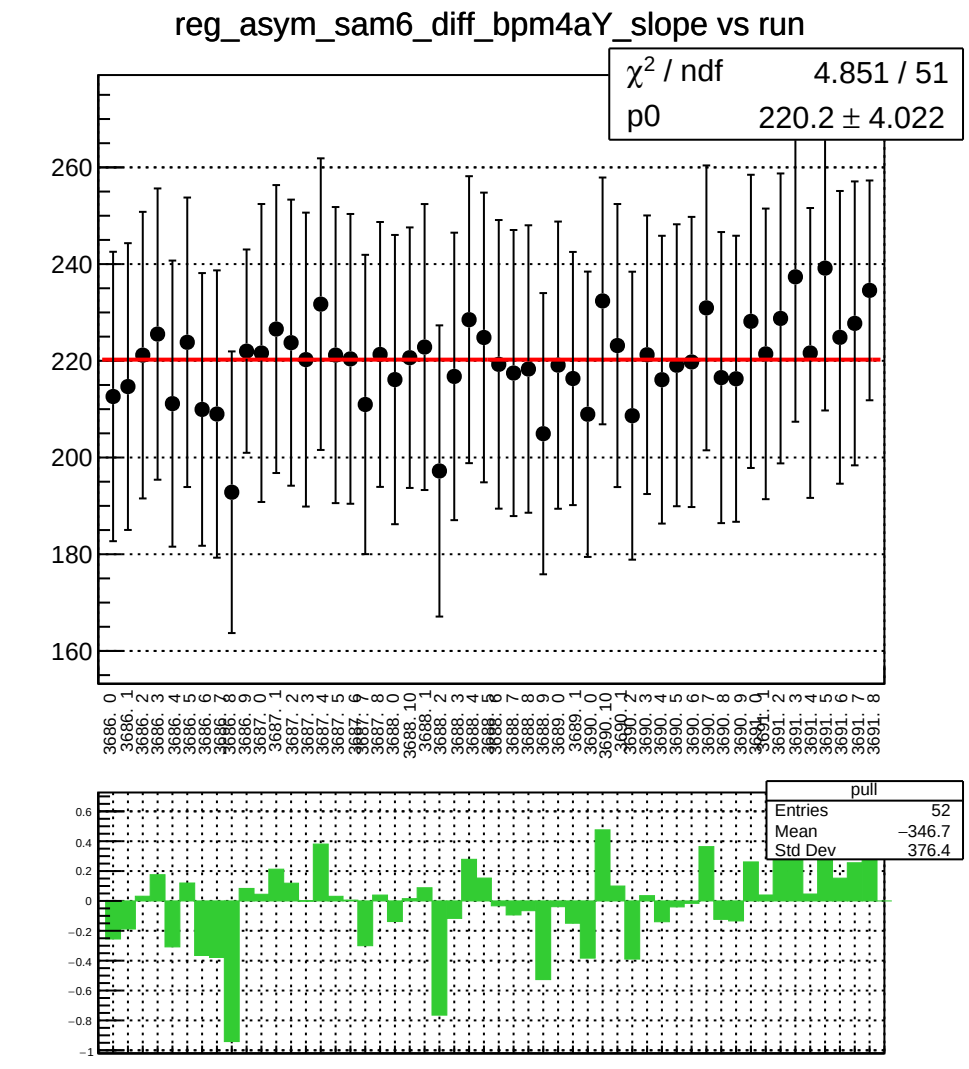

pull1D
Entries 52
Mean 0.02002
Std Dev 0.7032

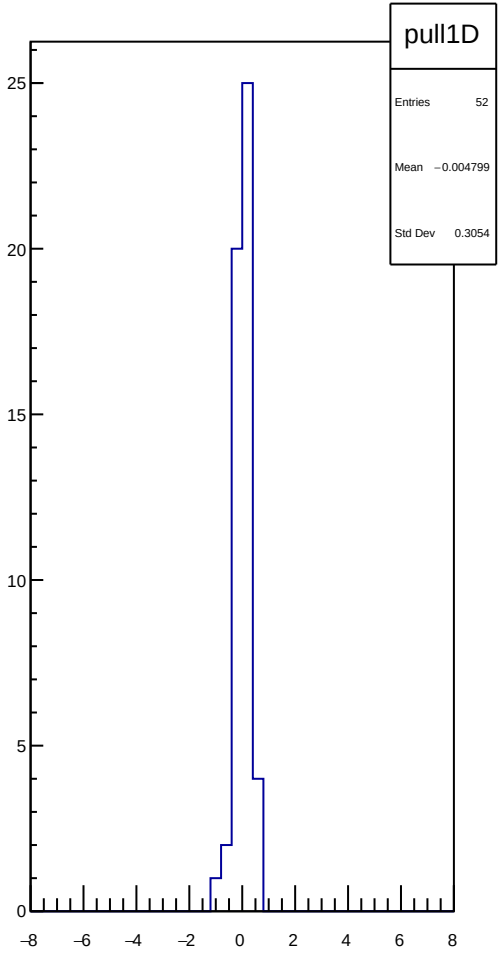

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 16.28 / 51
p0 −22.94 ± 1.767
pull
Entries 52
Mean 319.6
Std Dev 286.1
pull1D
Entries 52
Mean −0.006998
Std Dev 0.5595

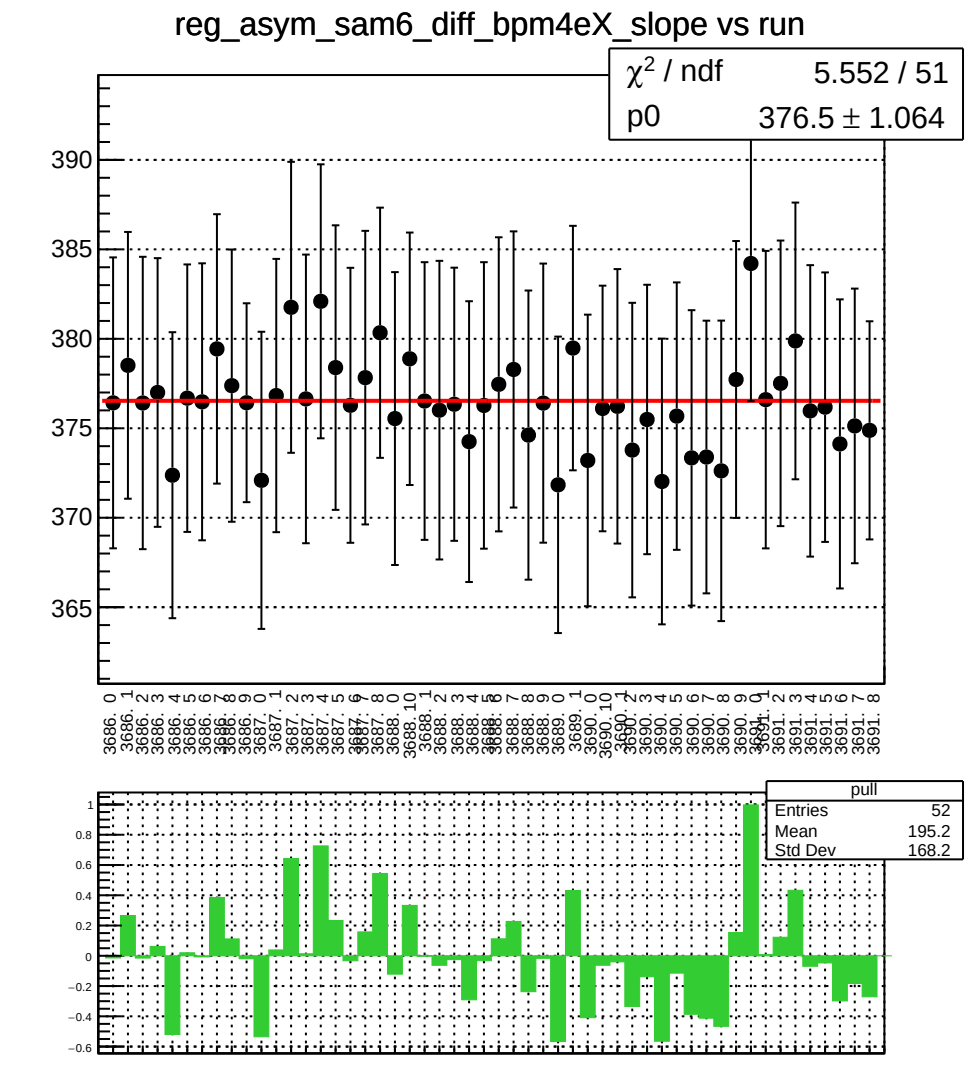

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 4.072 / 51
p0 0.5722 ± 0.3821
pull
Entries 52
Mean 6498
Std Dev 6474
pull1D
Entries 52
Mean −0.0002835
Std Dev 0.2798

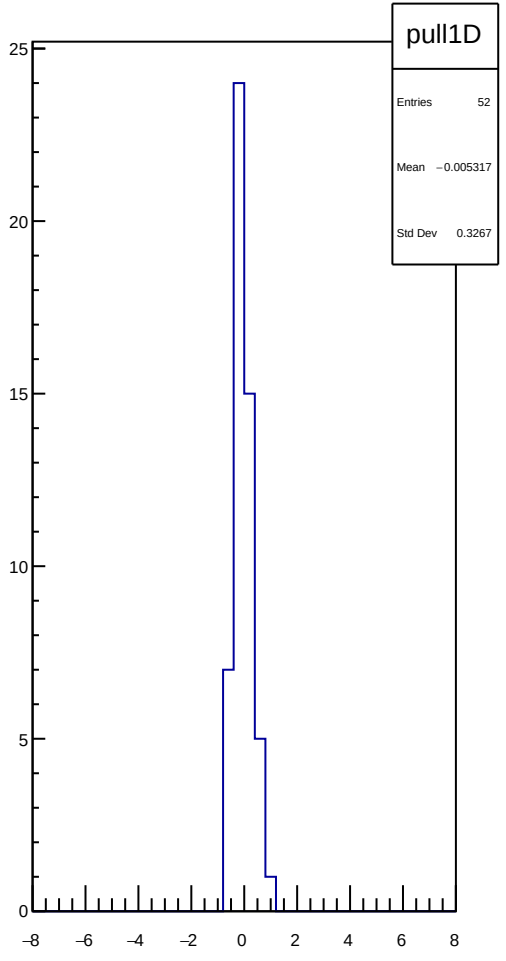

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 2.591 / 51
p0 −58.98 ± 5.424
pull
Entries 52
Mean 100.1
Std Dev 94.65

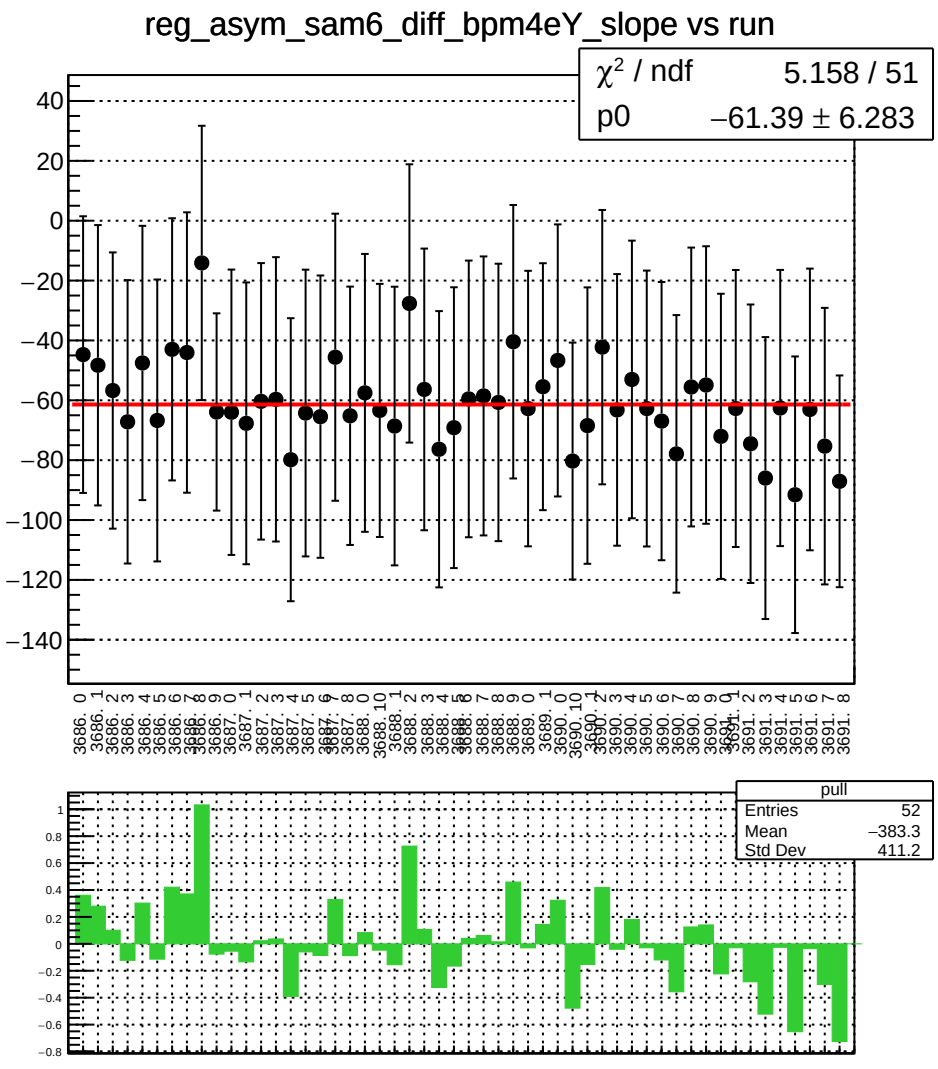

pull1D
Entries 52
Mean 0.002489
Std Dev 0.2232

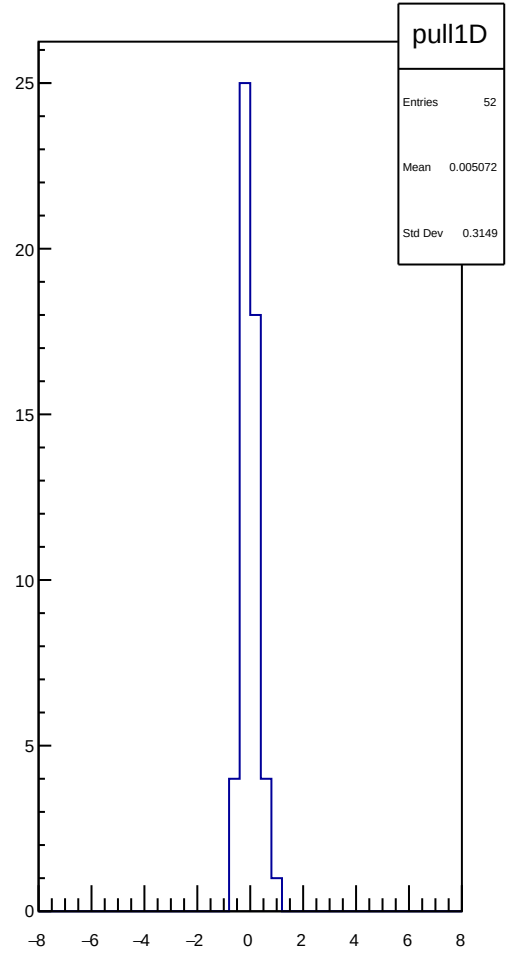

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 4.851 / 51
p0 220.2 ± 4.022
pull
Entries 52
Mean −346.7
Std Dev 376.4

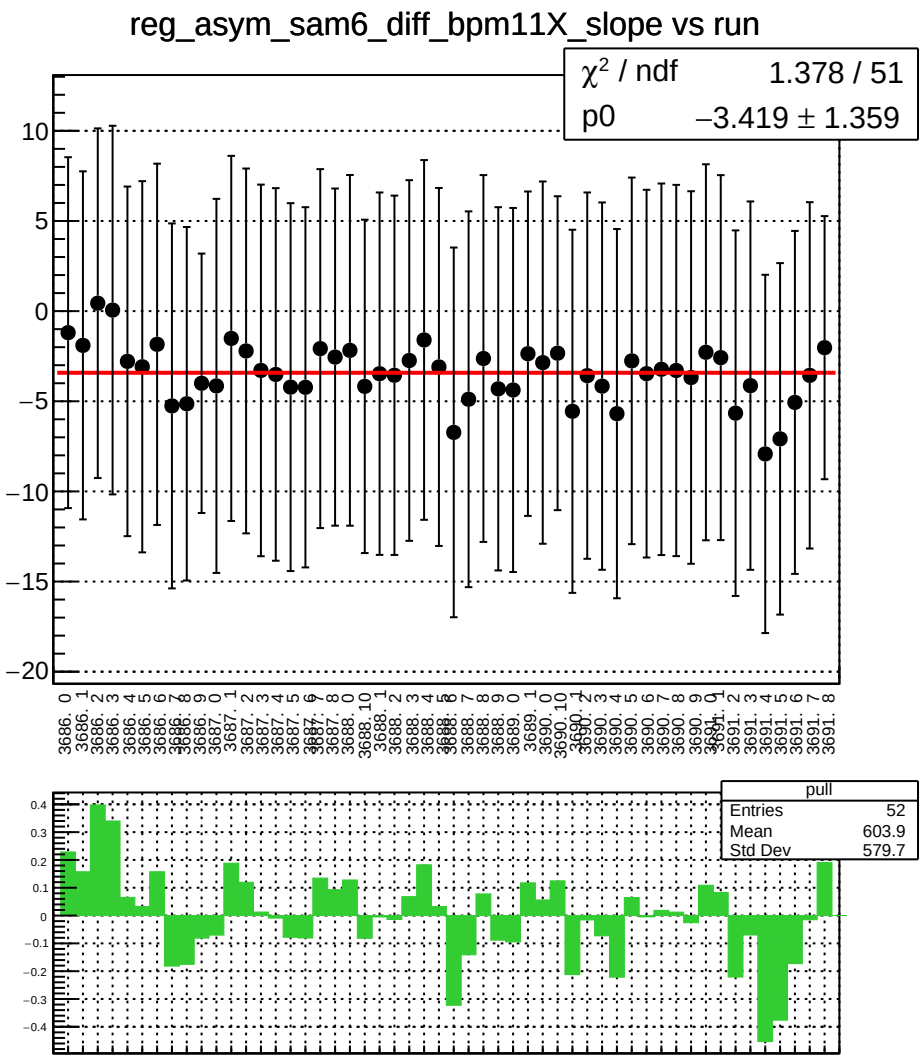

pull1D
Entries 52
Mean −0.004799
Std Dev 0.3054

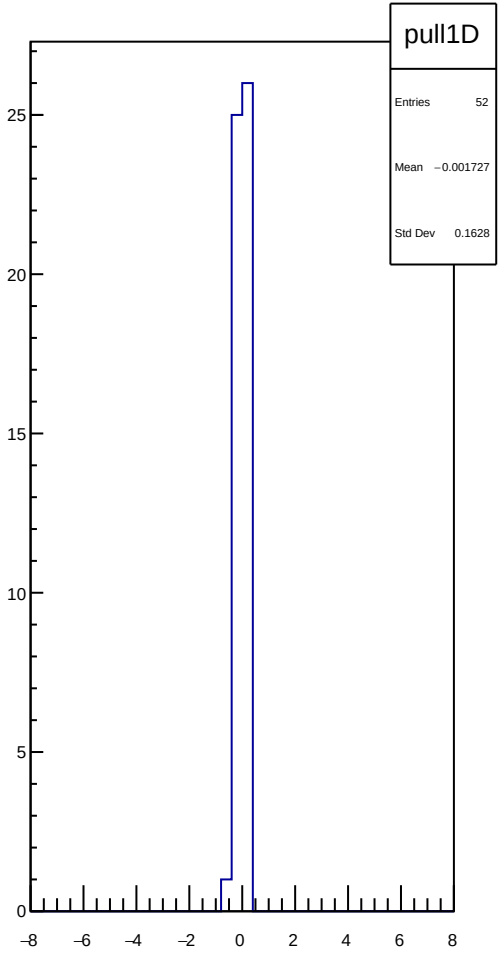

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 5.552 / 51
p0 376.5 ± 1.064
390
385
380
375
370
365
pull
Entries 52
Mean 195.2
Std Dev 168.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

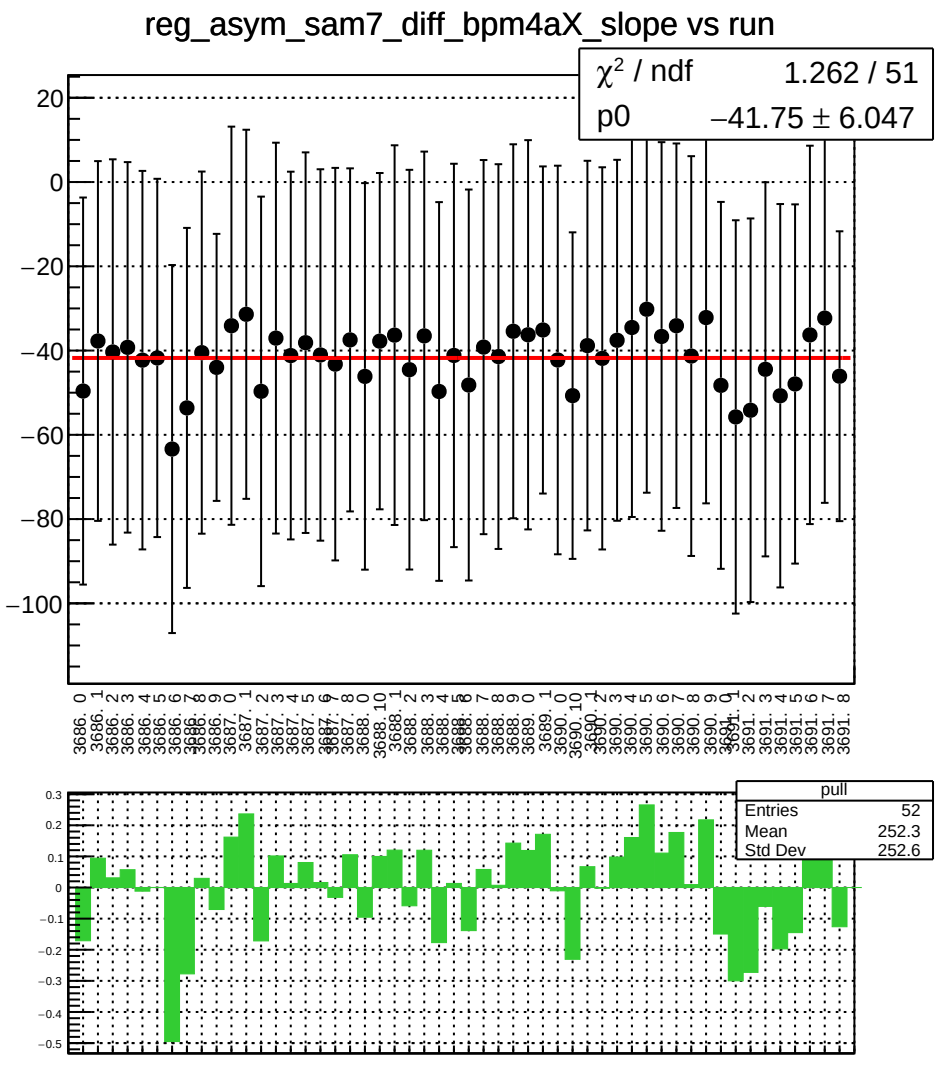

pull1D
Entries 52
Mean −0.005317
Std Dev 0.3267
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

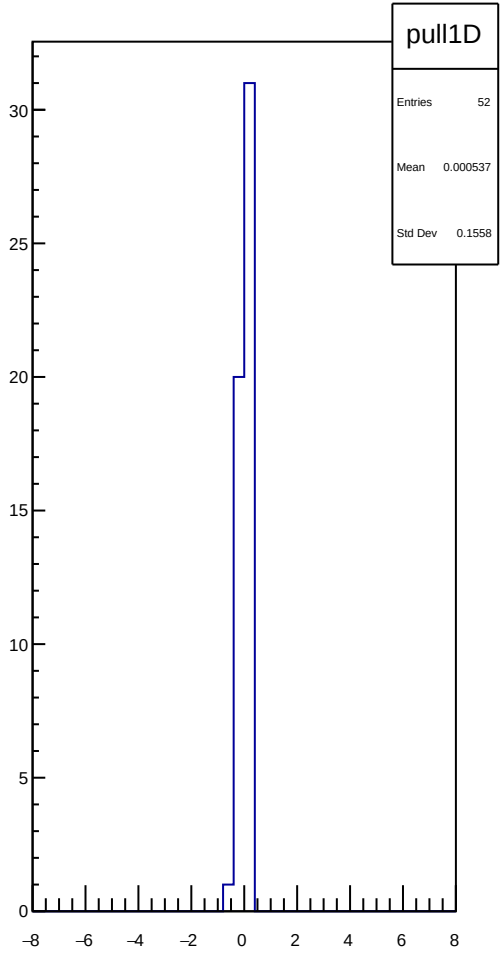

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 5.158 / 51
p0 −61.39 ± 6.283
pull
Entries 52
Mean −383.3
Std Dev 411.2

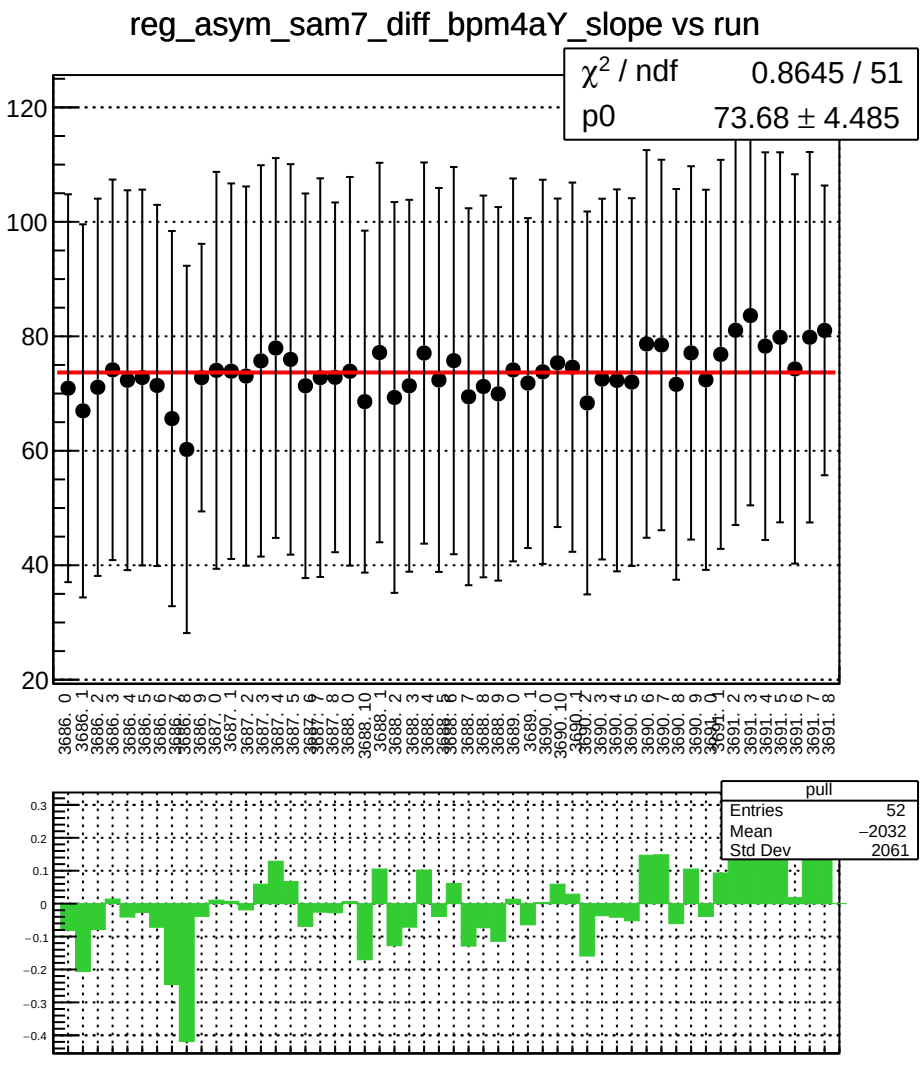

pull1D
Entries 52
Mean 0.005072
Std Dev 0.3149

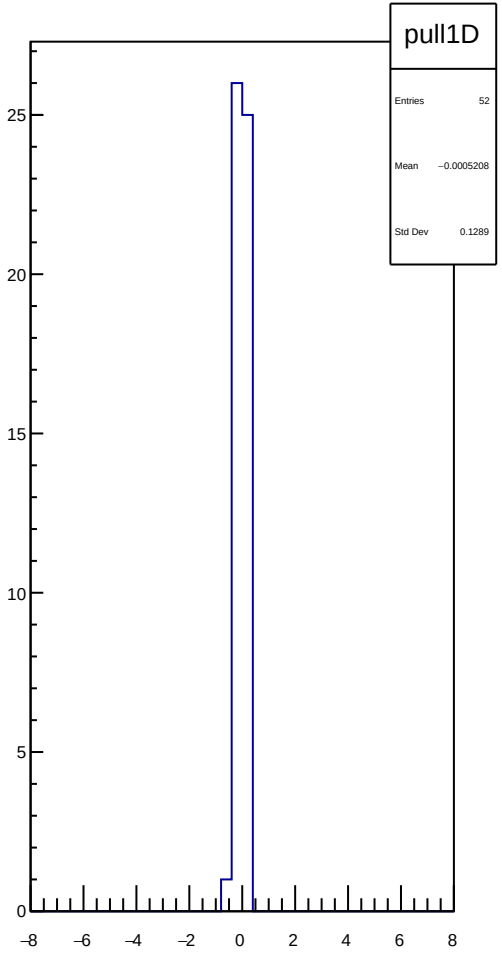

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 1.378 / 51
p0 −3.419 ± 1.359
pull
Entries 52
Mean 603.9
Std Dev 579.7

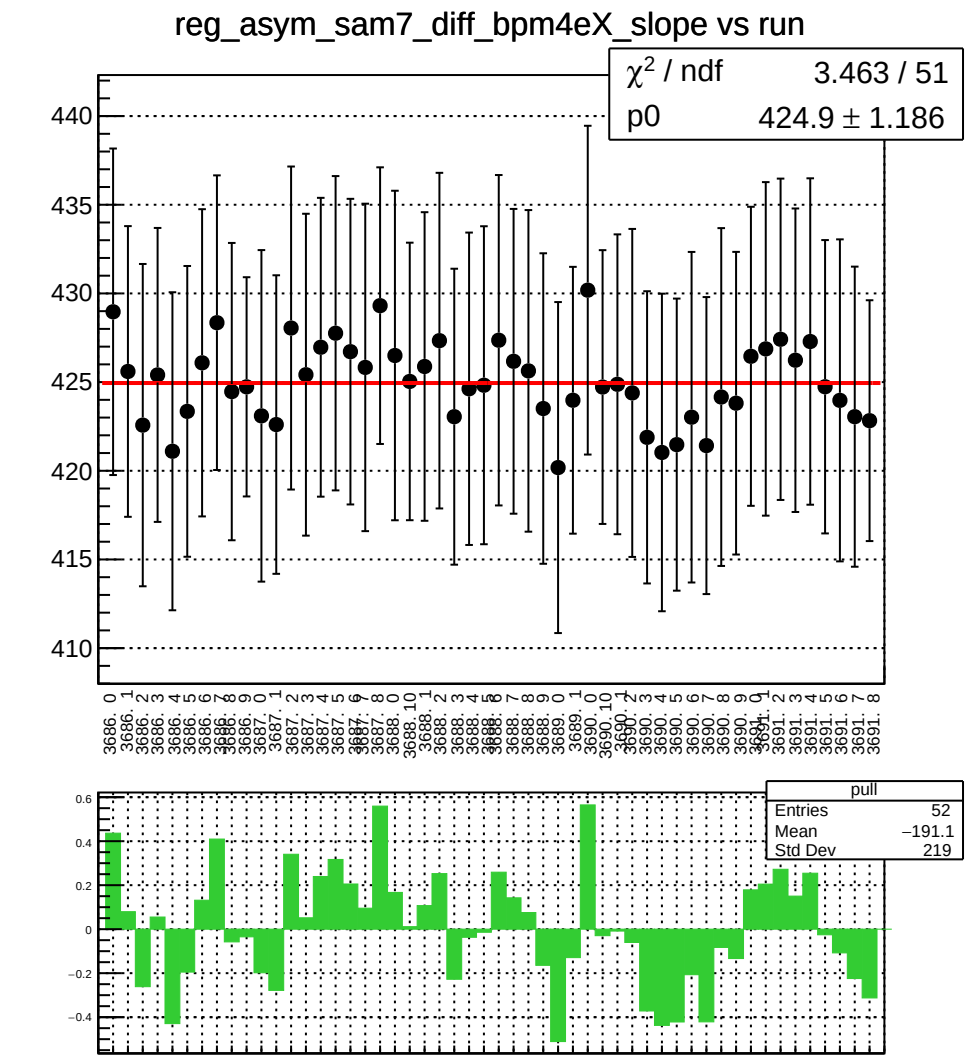

pull1D
Entries 52
Mean −0.001727
Std Dev 0.1628

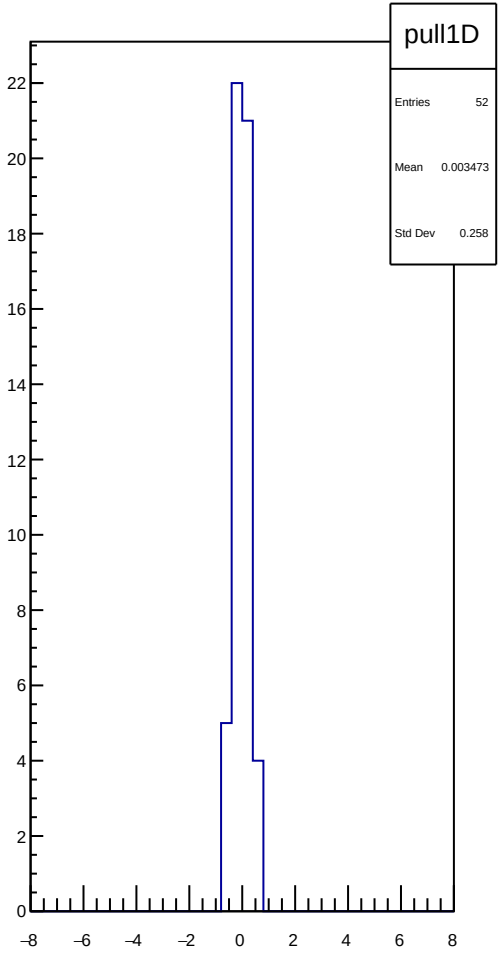

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 1.262 / 51
p0 −41.75 ± 6.047
pull
Entries 52
Mean 252.3
Std Dev 252.6

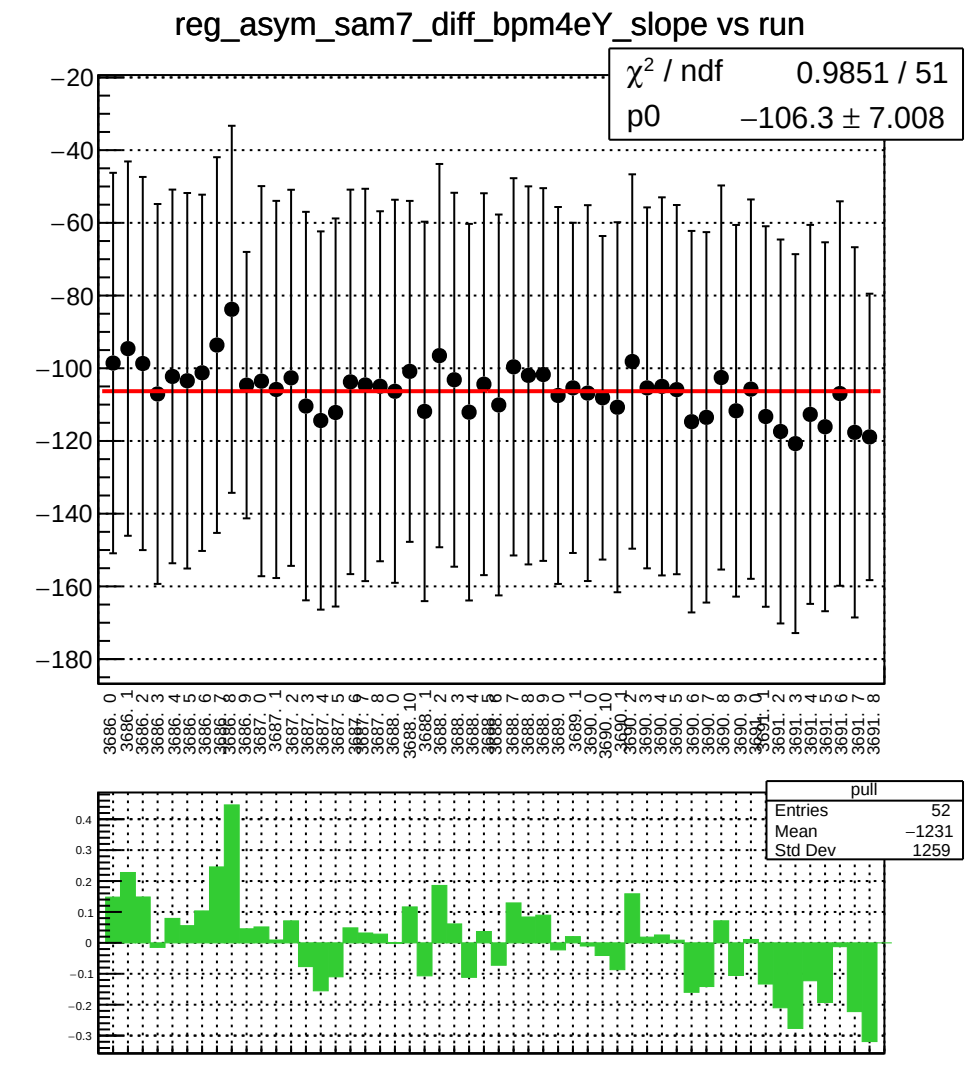

pull1D
Entries 52
Mean 0.000537
Std Dev 0.1558

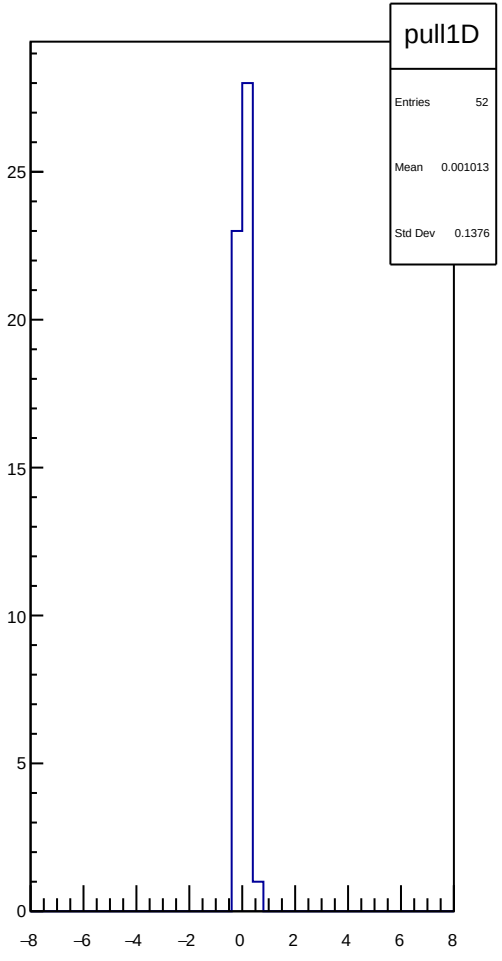

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 0.8645 / 51
p0 73.68 ± 4.485
pull
Entries 52
Mean −2032
Std Dev 2061

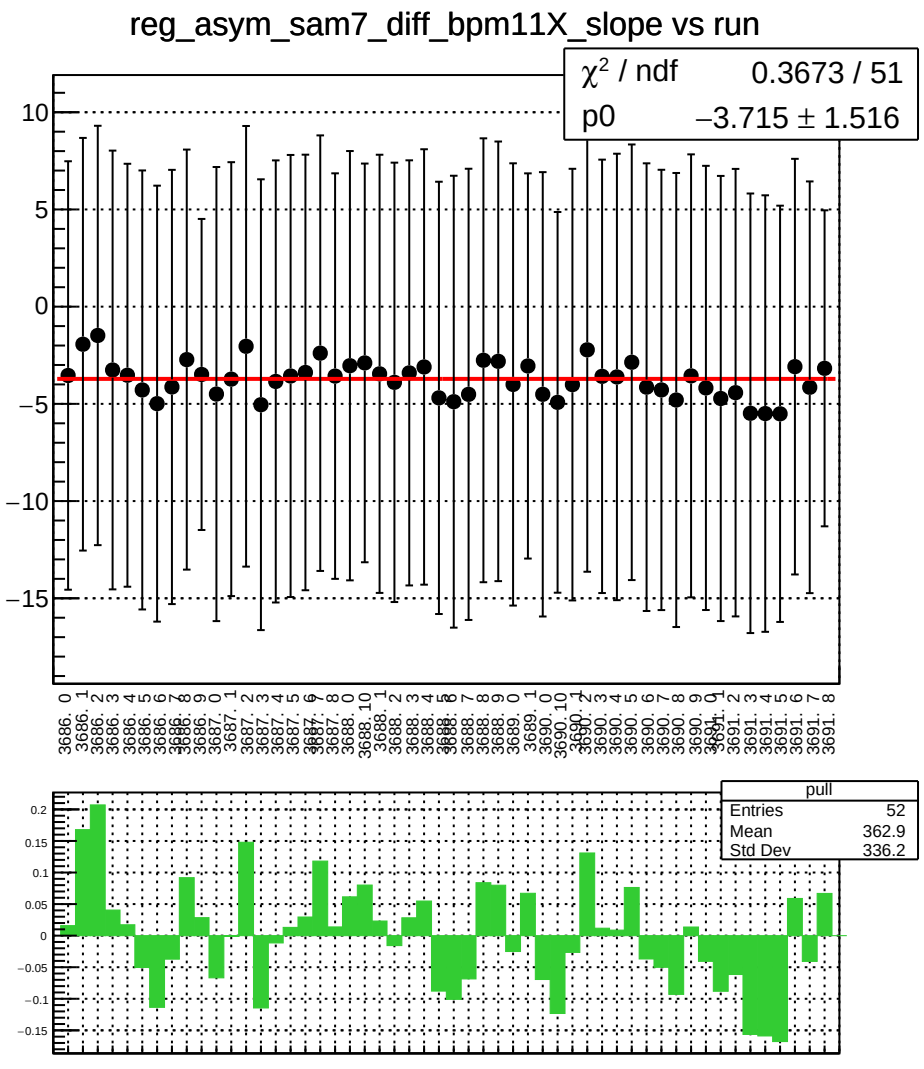

pull1D
Entries 52
Mean −0.0005208
Std Dev 0.1289

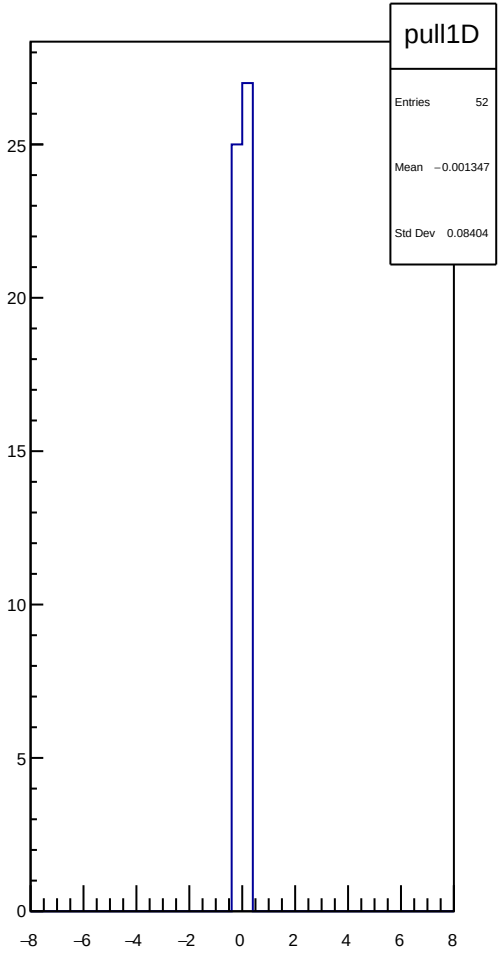

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 3.463 / 51
p0 424.9 ± 1.186
pull
Entries 52
Mean −191.1
Std Dev 219

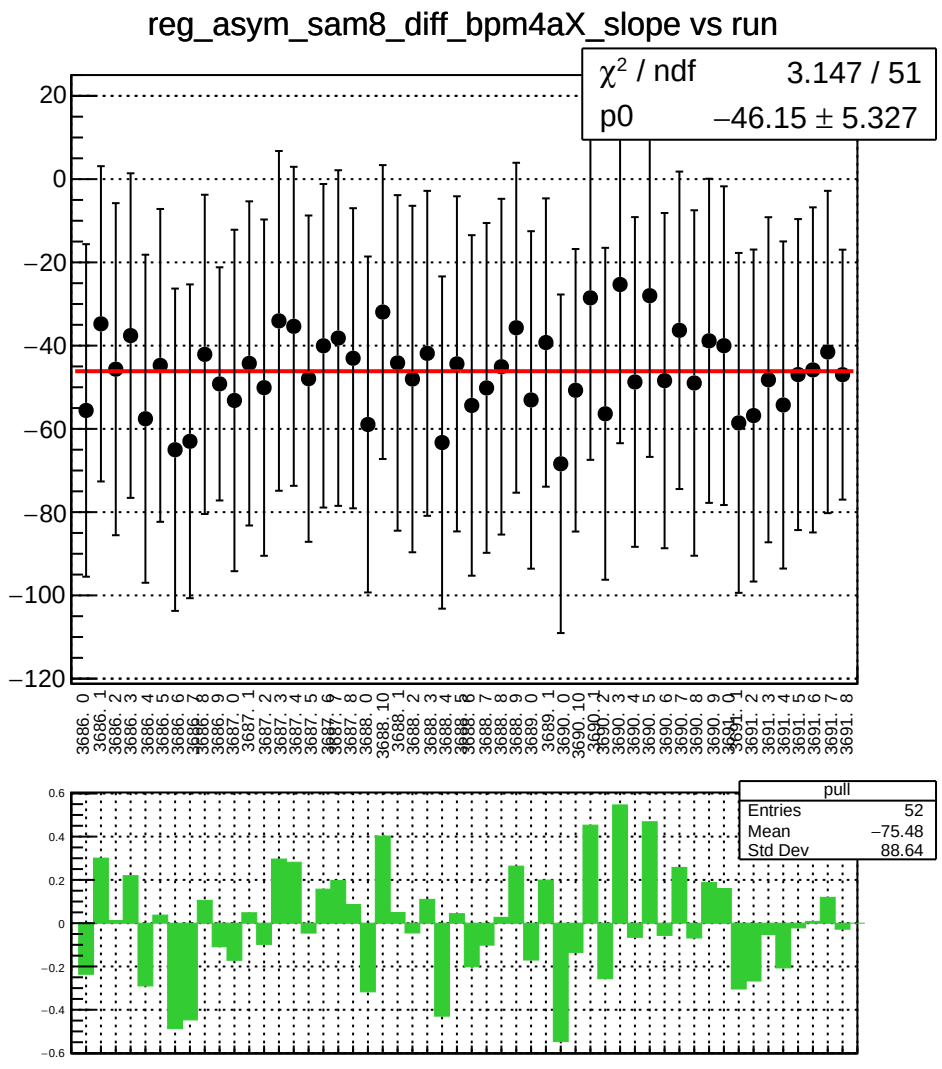

pull1D
Entries 52
Mean 0.003473
Std Dev 0.258

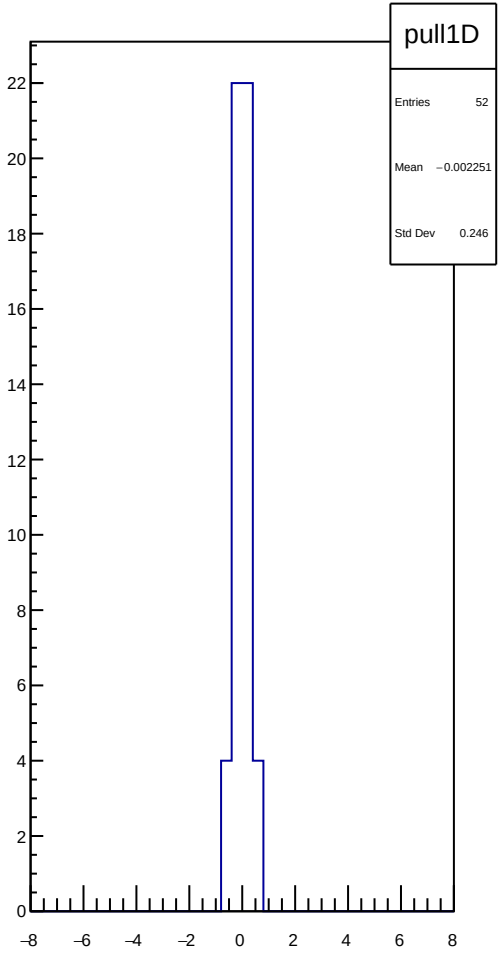

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 0.9851 / 51
p0 −106.3 ± 7.008
pull
Entries 52
Mean −1231
Std Dev 1259

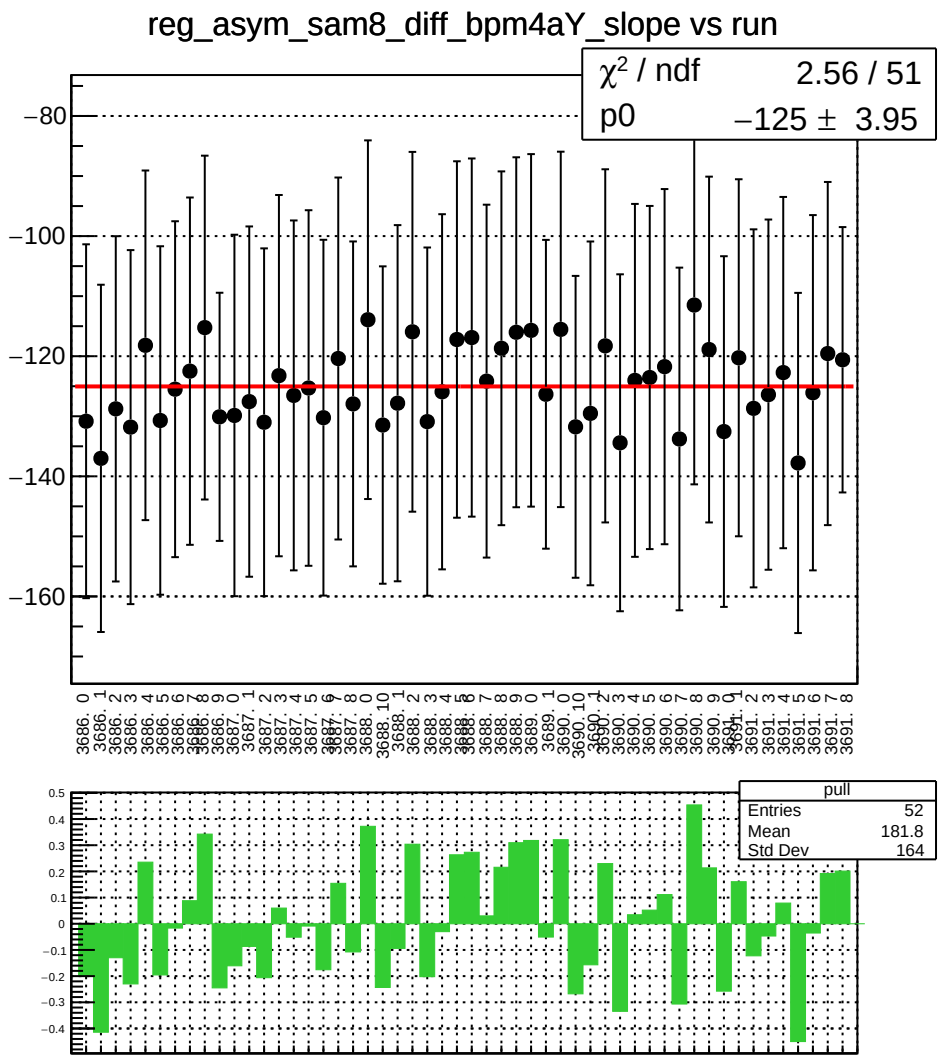

pull1D
Entries 52
Mean 0.001013
Std Dev 0.1376

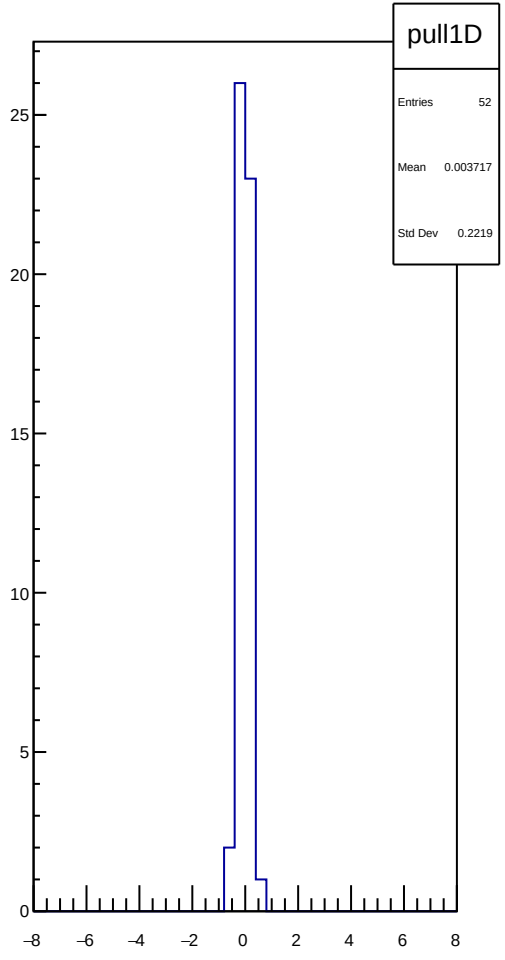

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 0.3673 / 51
p0 −3.715 ± 1.516
pull
Entries 52
Mean 362.9
Std Dev 336.2

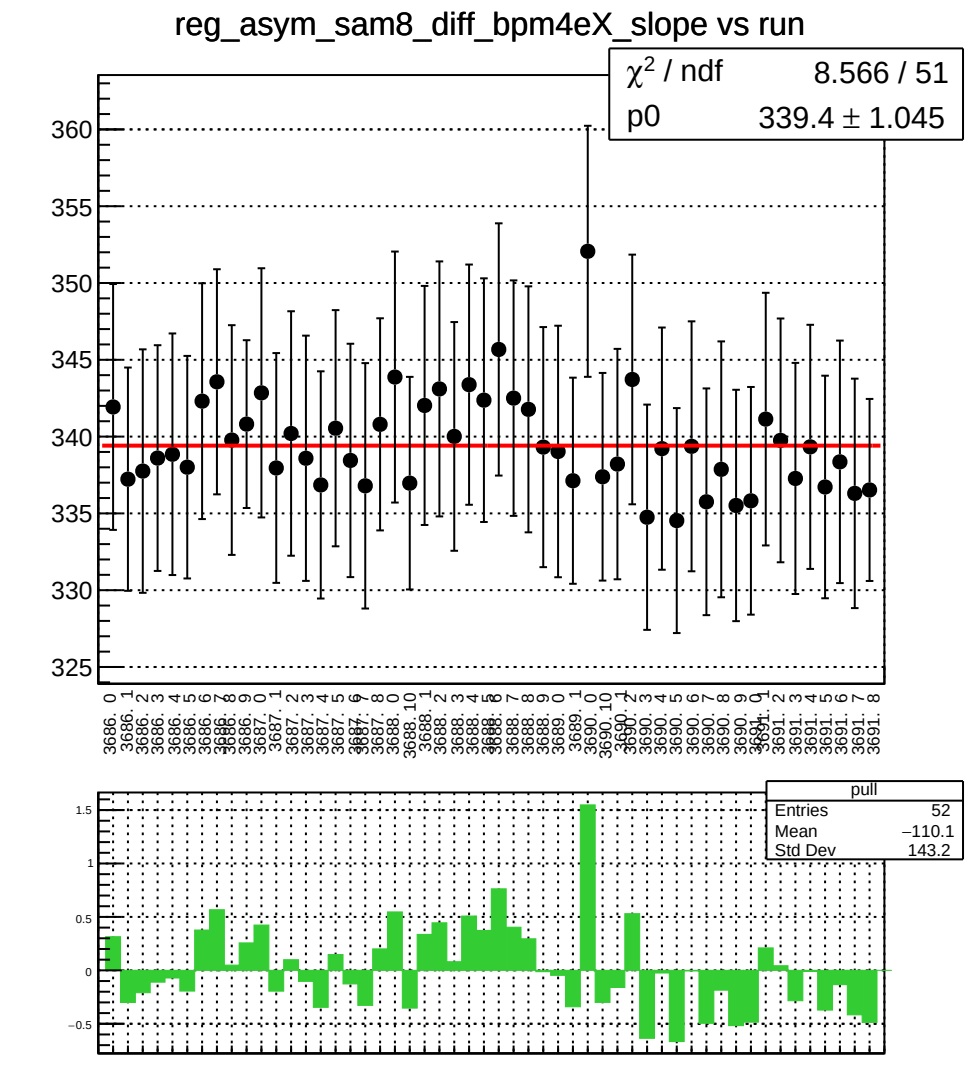

pull1D
Entries 52
Mean −0.001347
Std Dev 0.08404

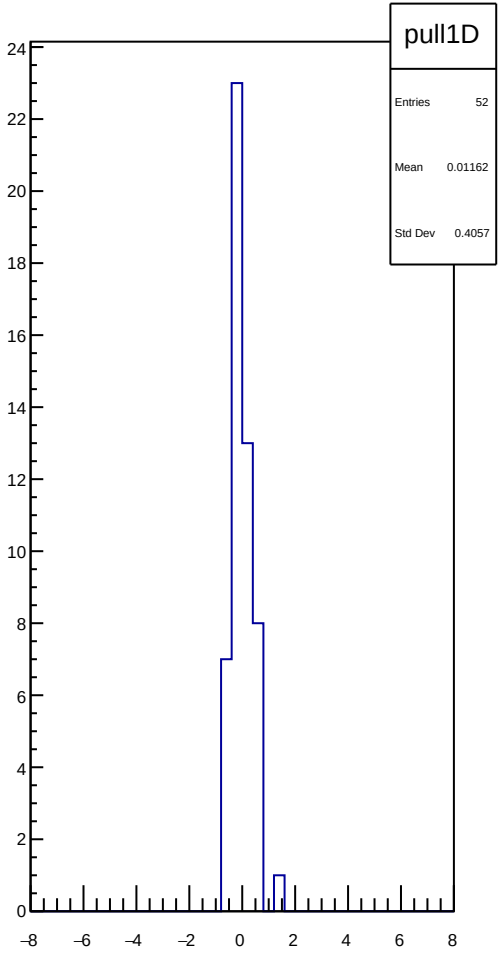

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 3.147 / 51
p0 −46.15 ± 5.327
pull
Entries 52
Mean −75.48
Std Dev 88.64

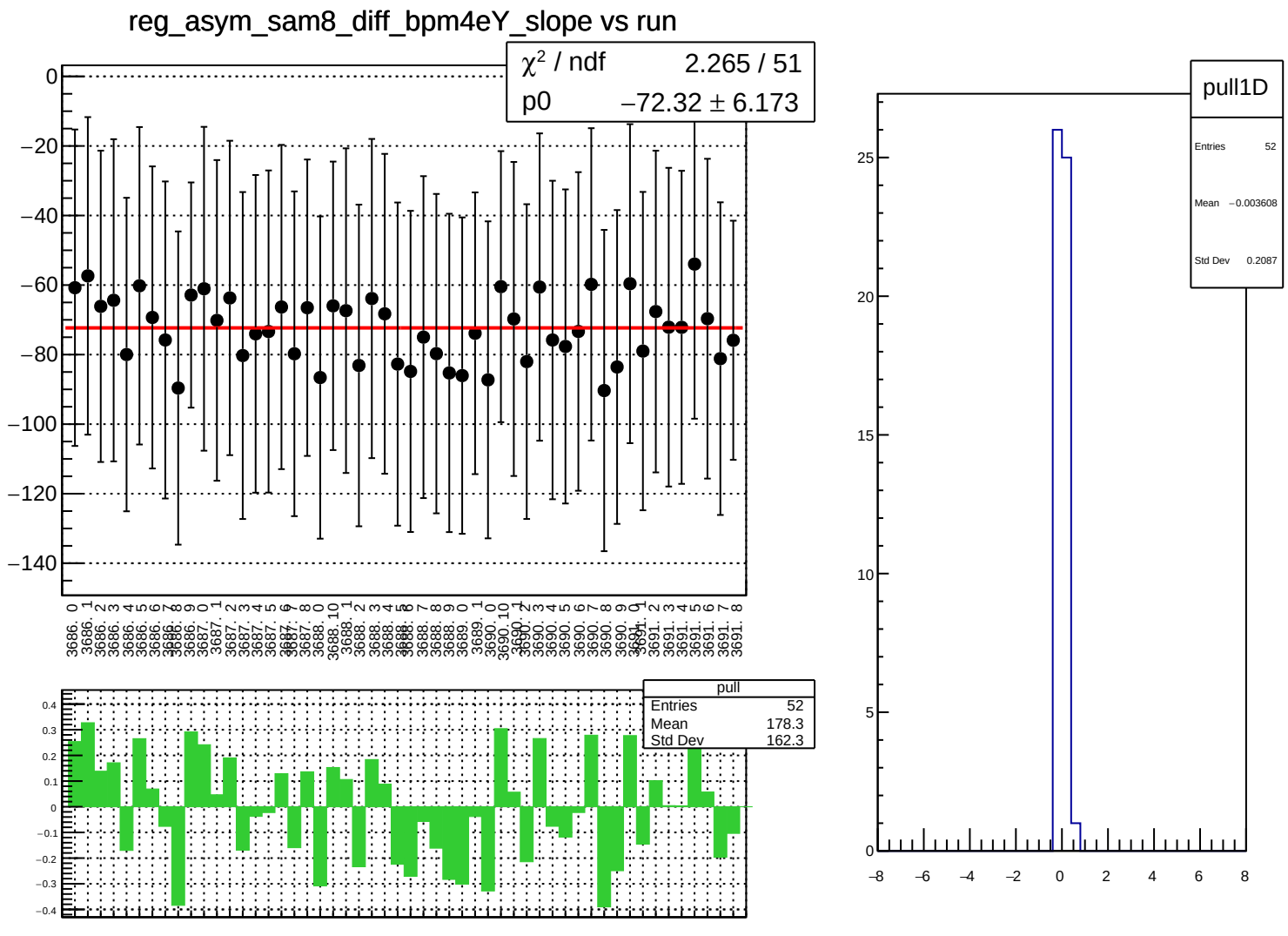

pull1D
Entries 52
Mean −0.002251
Std Dev 0.246

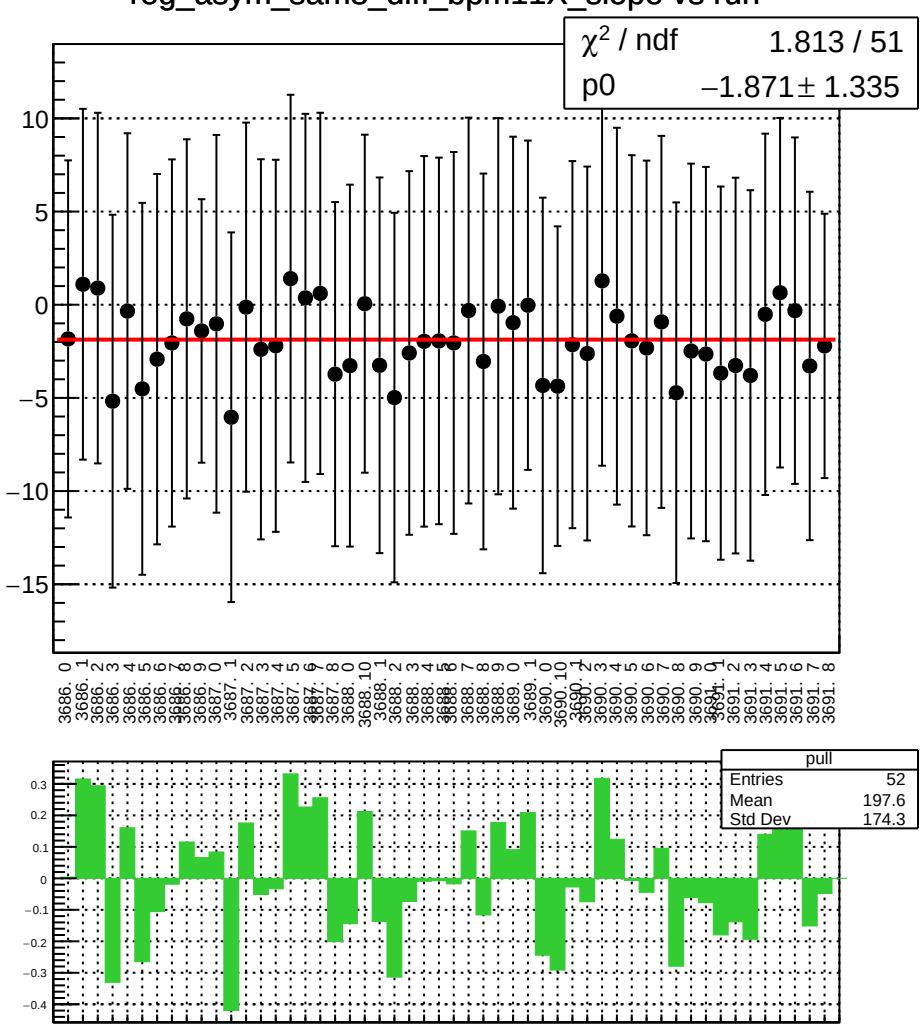

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 2.56 / 51
p0 −125 ± 3.95
−80
−100
−120
−140
−160
pull
Entries 52
Mean 181.8
Std Dev 164
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

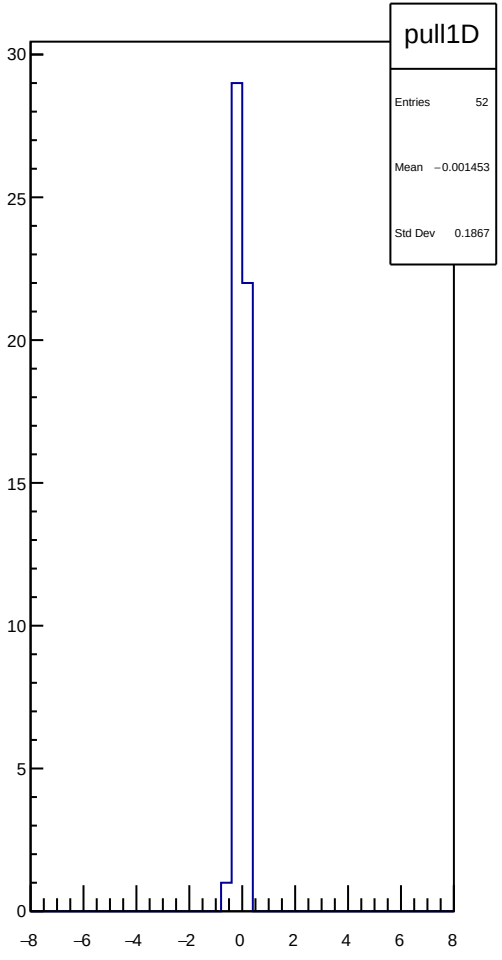

pull1D
Entries 52
Mean 0.003717
Std Dev 0.2219
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

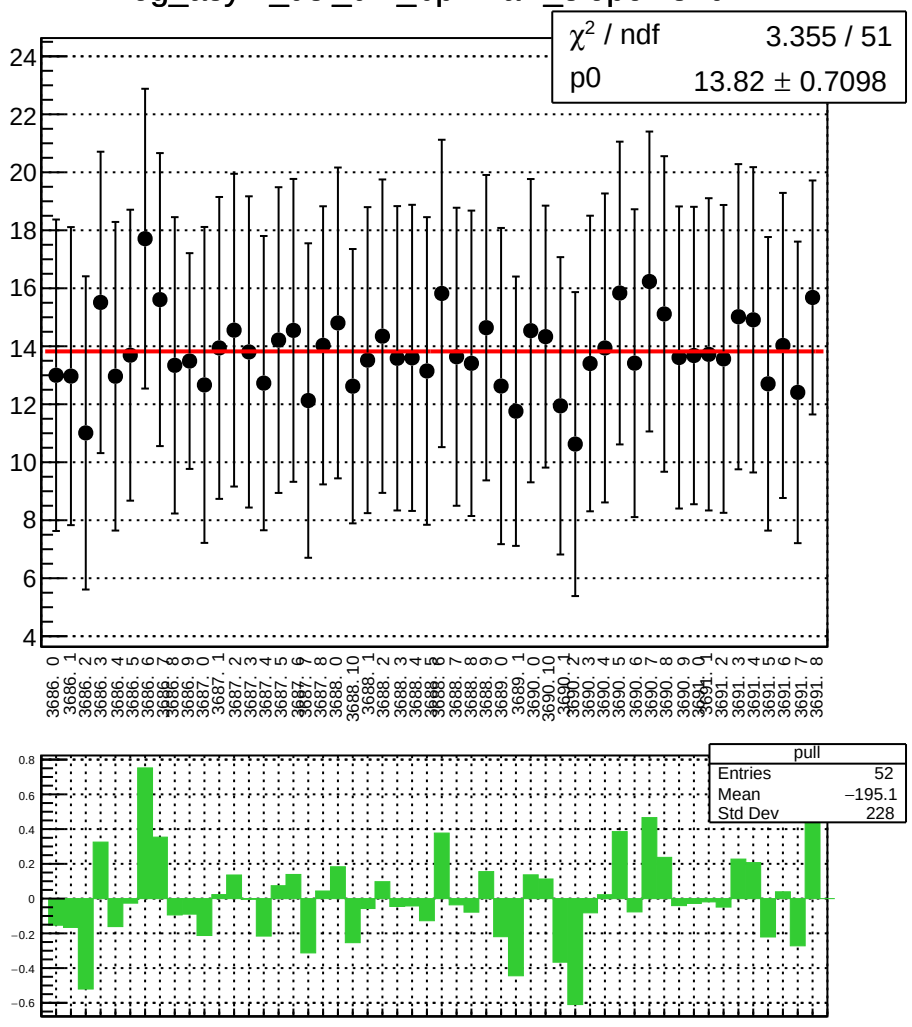

reg_asym_sam8_diff_bpm4eX_slope vs run
χ^2 / ndf 8.566 / 51
p0 339.4 ± 1.045
pull
Entries 52
Mean −110.1
Std Dev 143.2

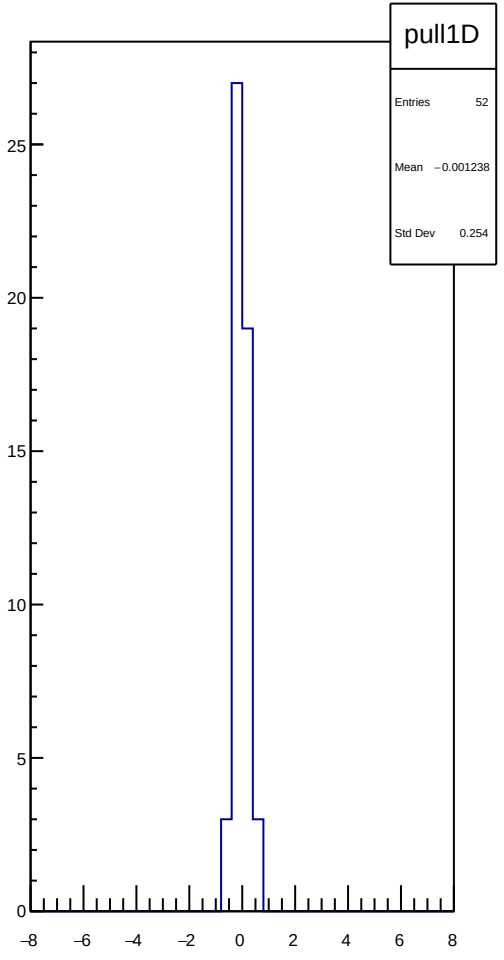

pull1D
Entries 52
Mean 0.01162
Std Dev 0.4057

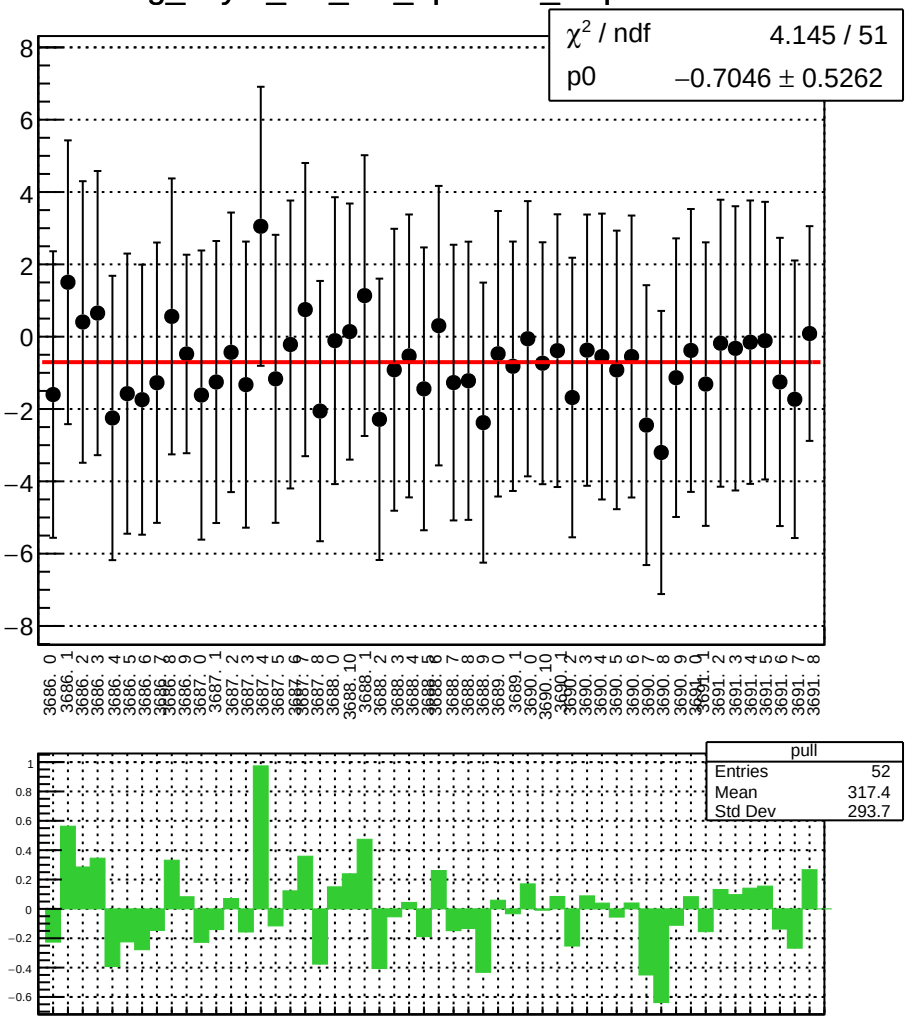

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 2.265 / 51
p0 −72.32 ± 6.173
pull
Entries 52
Mean 178.3
Std Dev 162.3
pull1D
Entries 52
Mean −0.003608
Std Dev 0.2087

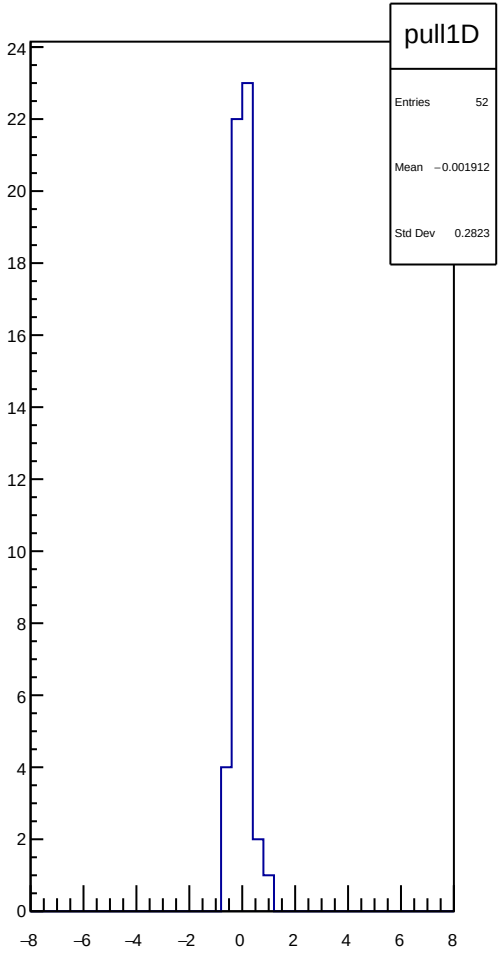

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 1.813 / 51
p0 −1.871± 1.335
pull
Entries 52
Mean 197.6
Std Dev 174.3

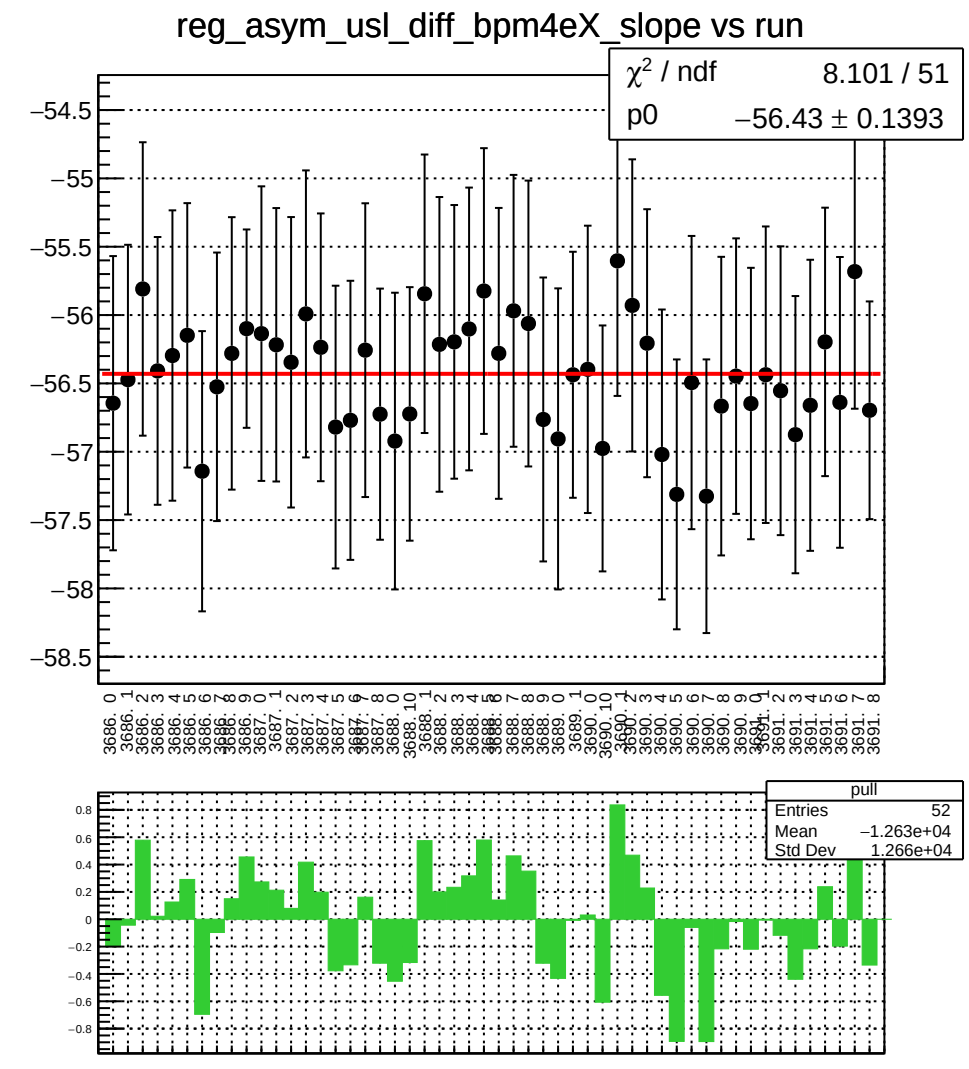

pull1D
Entries 52
Mean −0.001453
Std Dev 0.1867

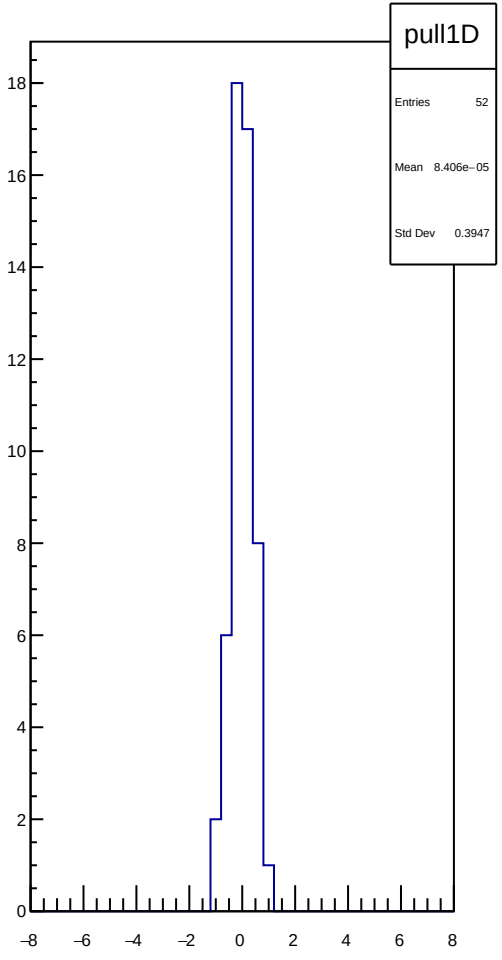

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 3.355 / 51
p0 13.82 ± 0.7098
pull
Entries 52
Mean −195.1
Std Dev 228

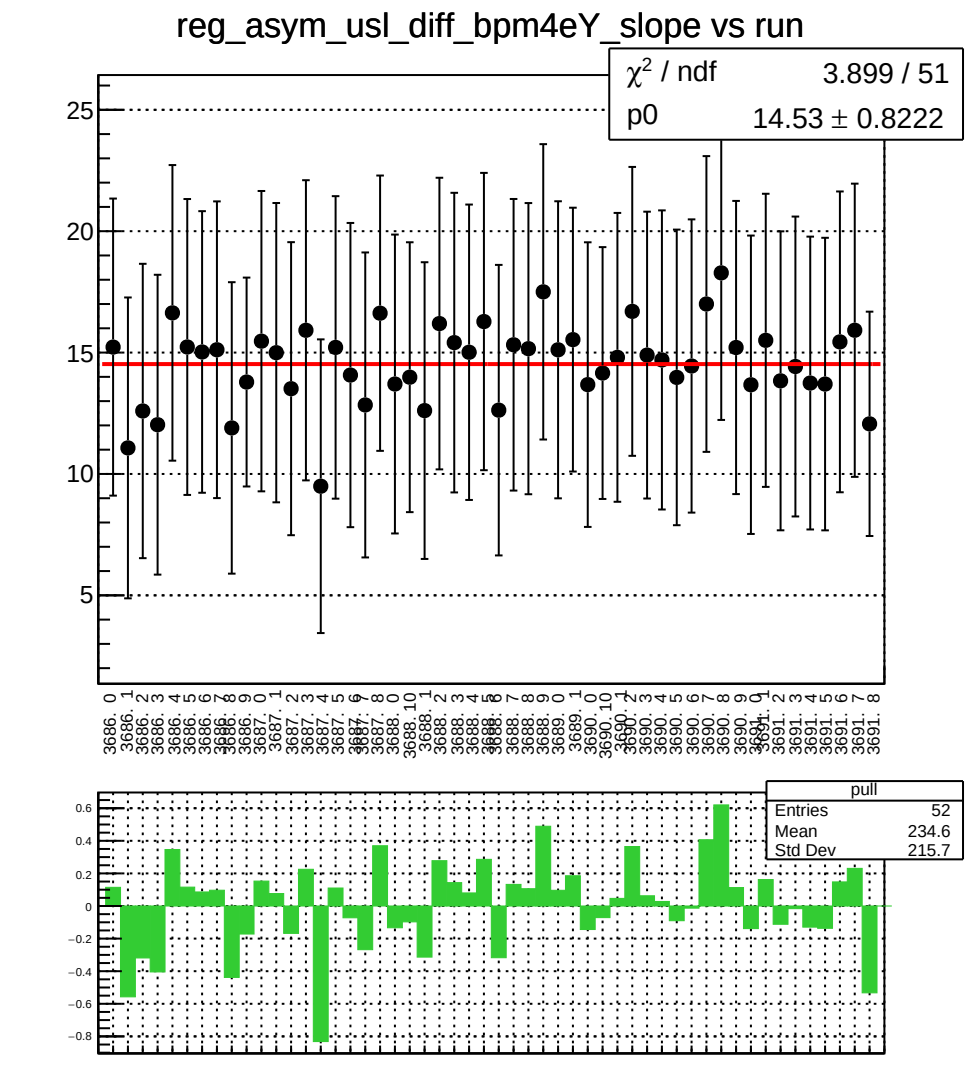

pull1D
Entries 52
Mean −0.001238
Std Dev 0.254

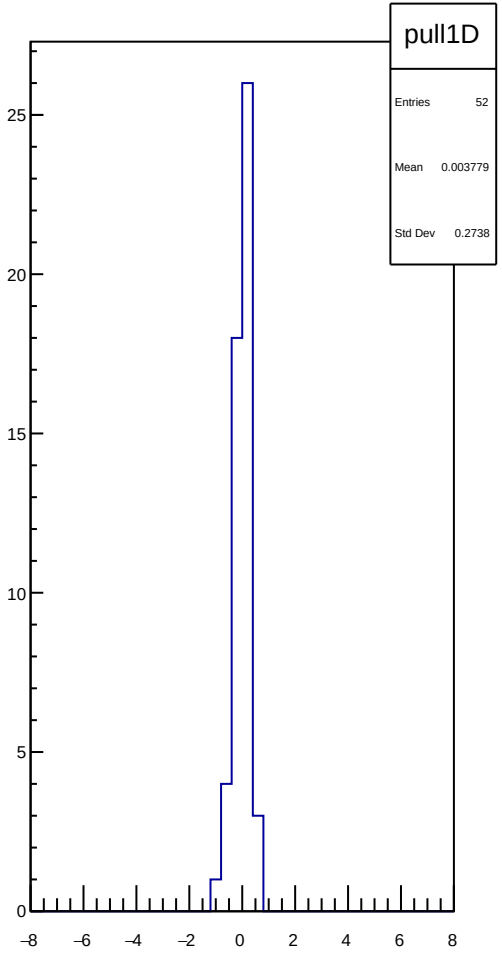

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 4.145 / 51
p0 −0.7046 ± 0.5262
pull
Entries 52
Mean 317.4
Std Dev 293.7

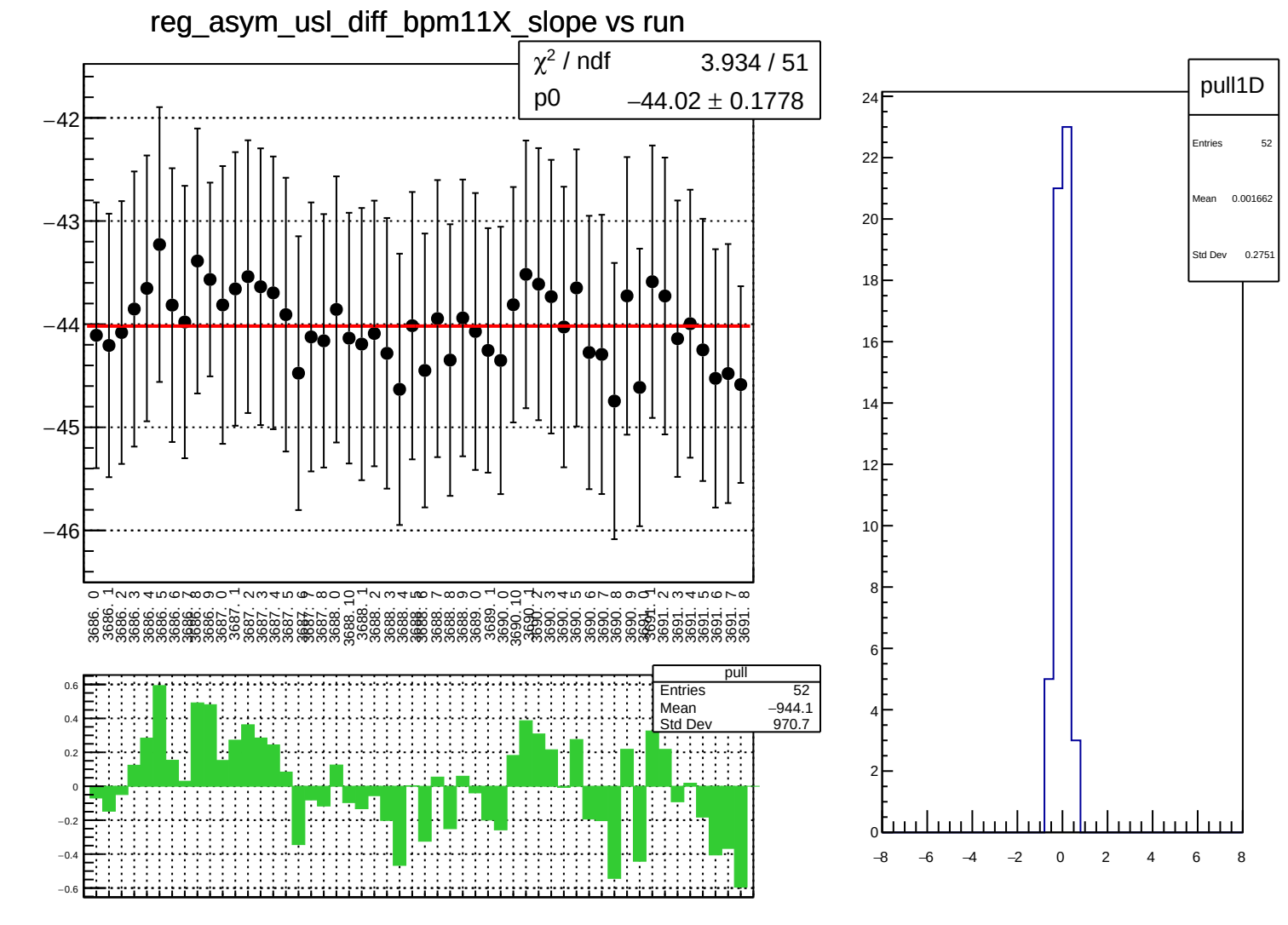

pull1D
Entries 52
Mean −0.001912
Std Dev 0.2823

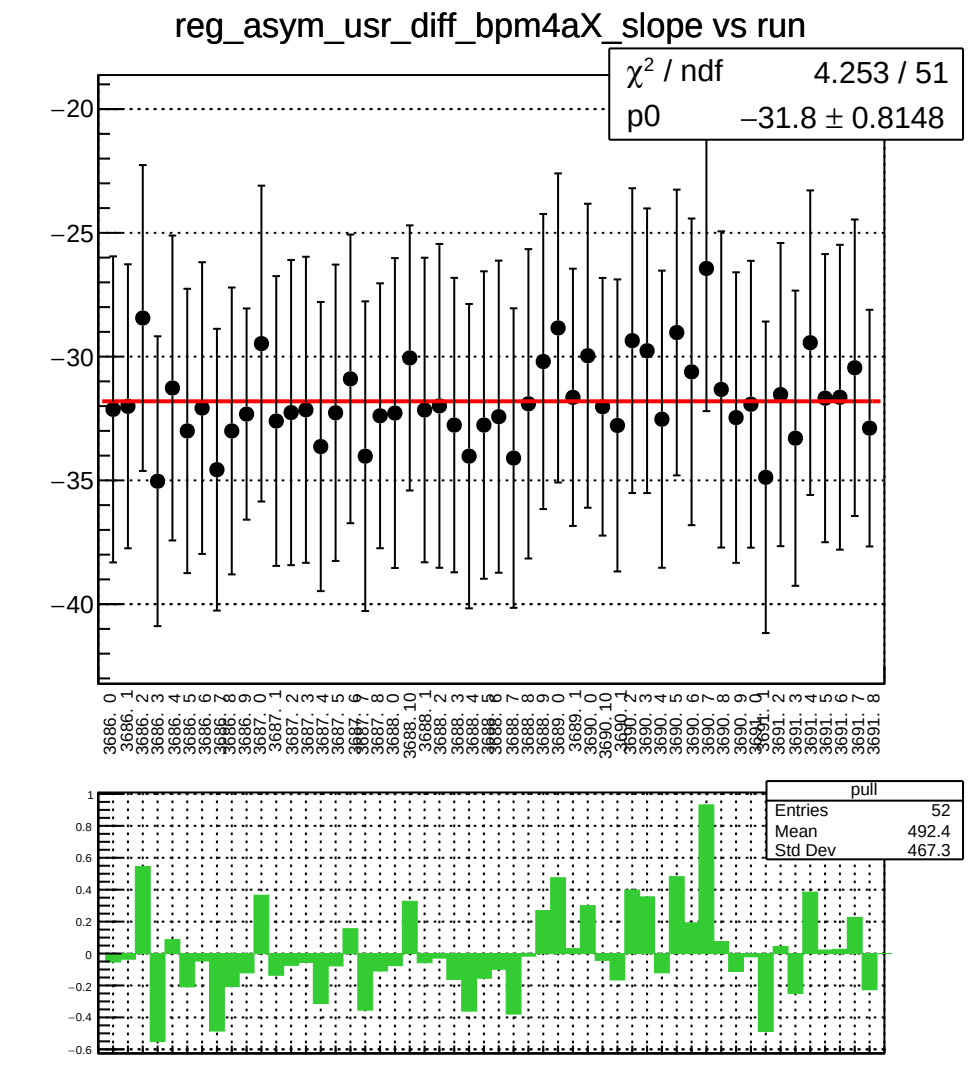

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 8.101 / 51
p0 −56.43 ± 0.1393
pull
Entries 52
Mean −1.263e+04
Std Dev 1.266e+04

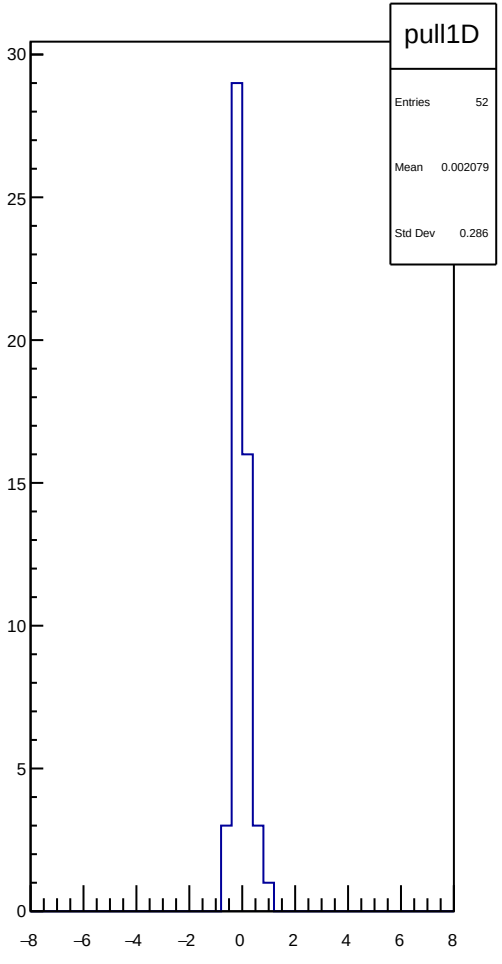

pull1D
Entries 52
Mean 8.406e−05
Std Dev 0.3947

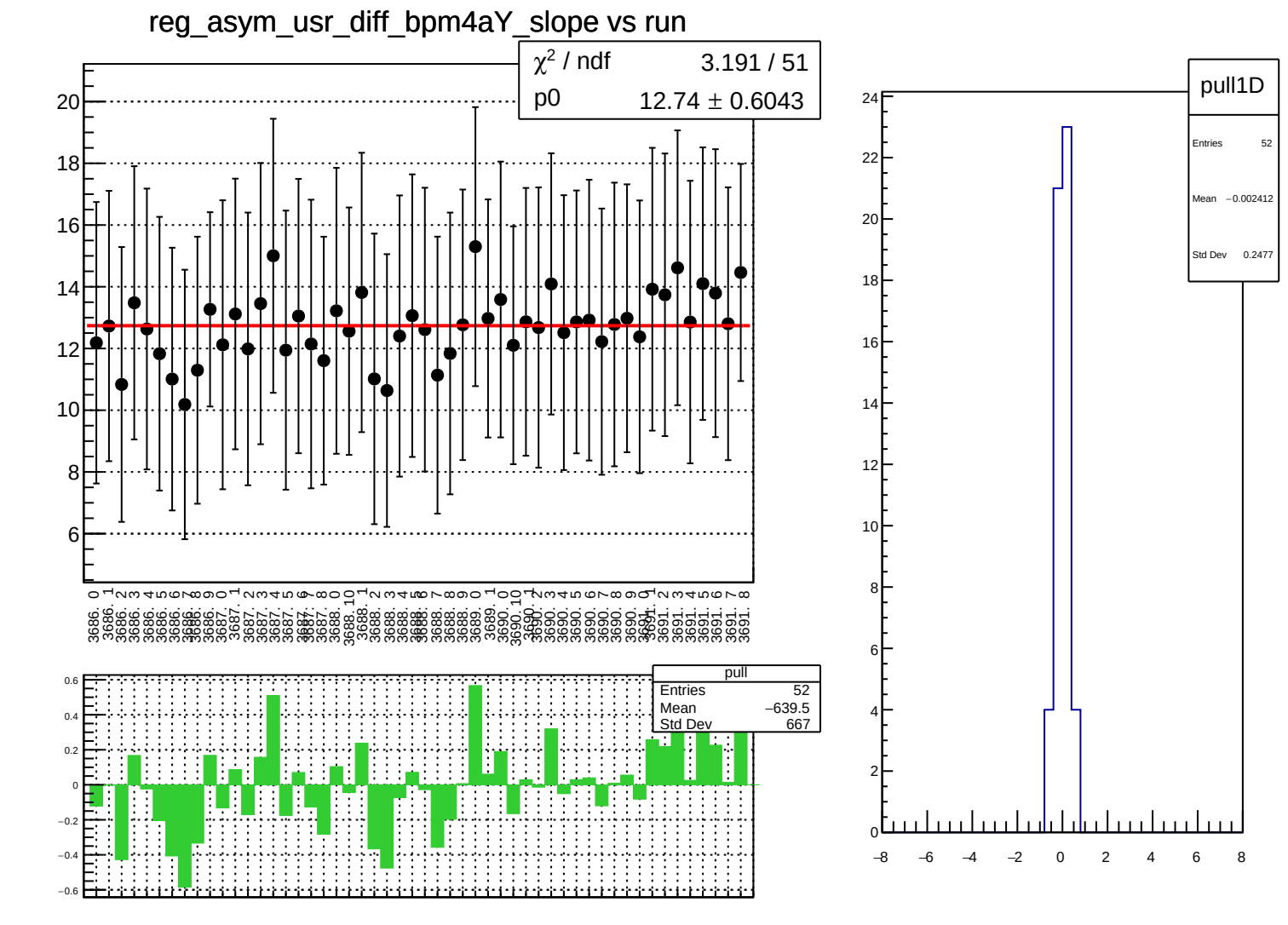

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 3.899 / 51
p0 14.53 ± 0.8222
pull
Entries 52
Mean 234.6
Std Dev 215.7

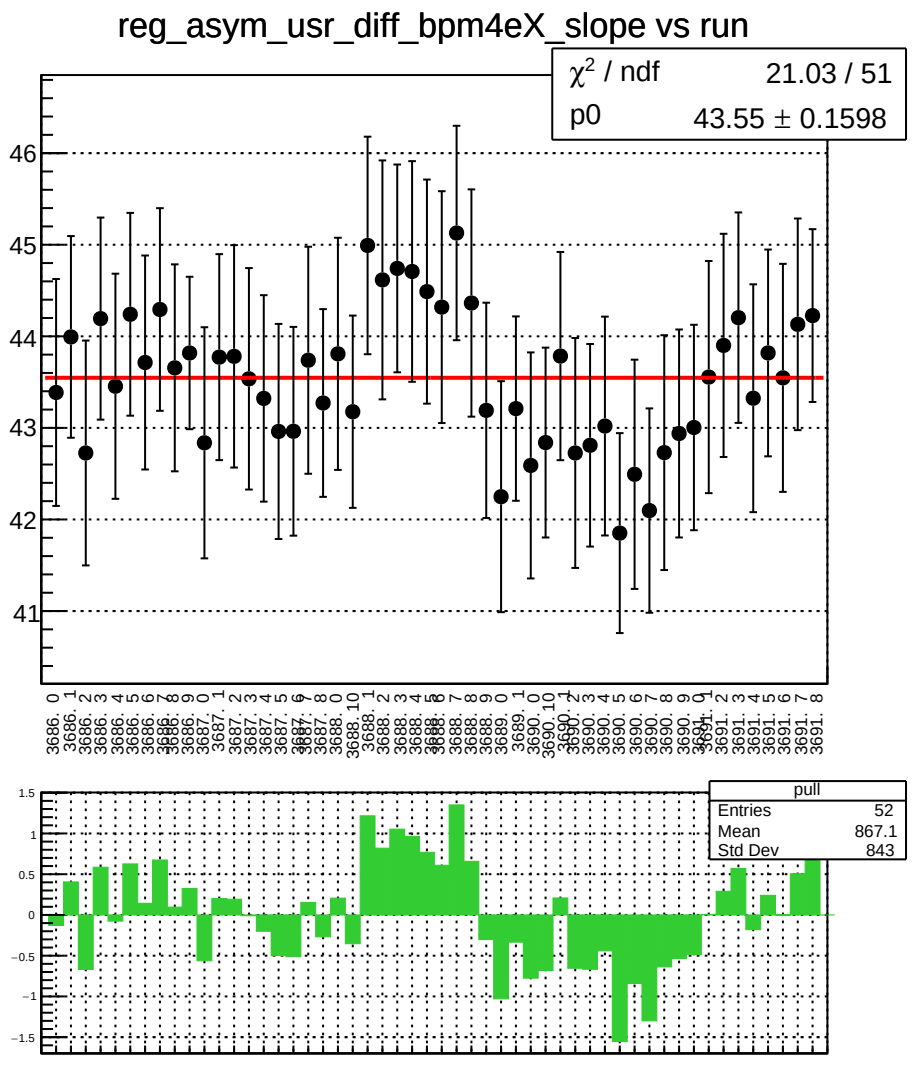

pull1D
Entries 52
Mean 0.003779
Std Dev 0.2738

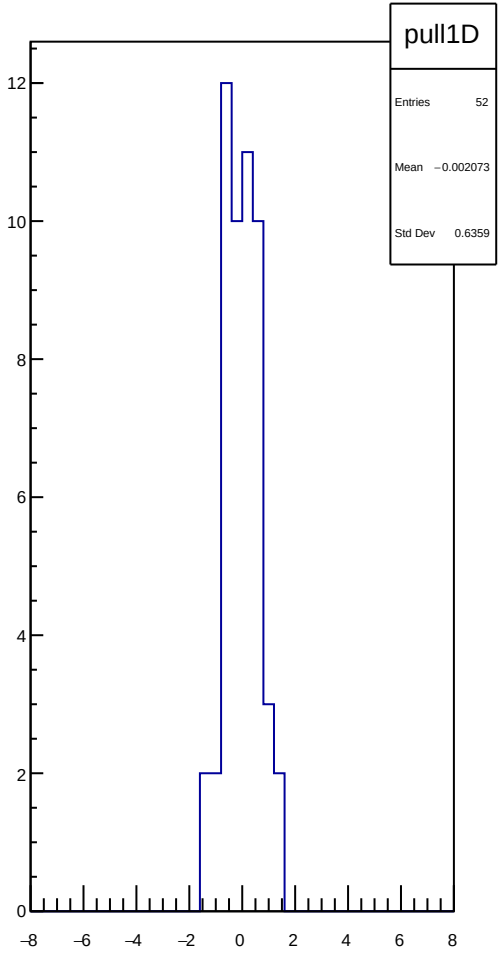

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 3.934 / 51
p0 −44.02 ± 0.1778
pull
Entries 52
Mean −944.1
Std Dev 970.7
pull1D
Entries 52
Mean 0.001662
Std Dev 0.2751

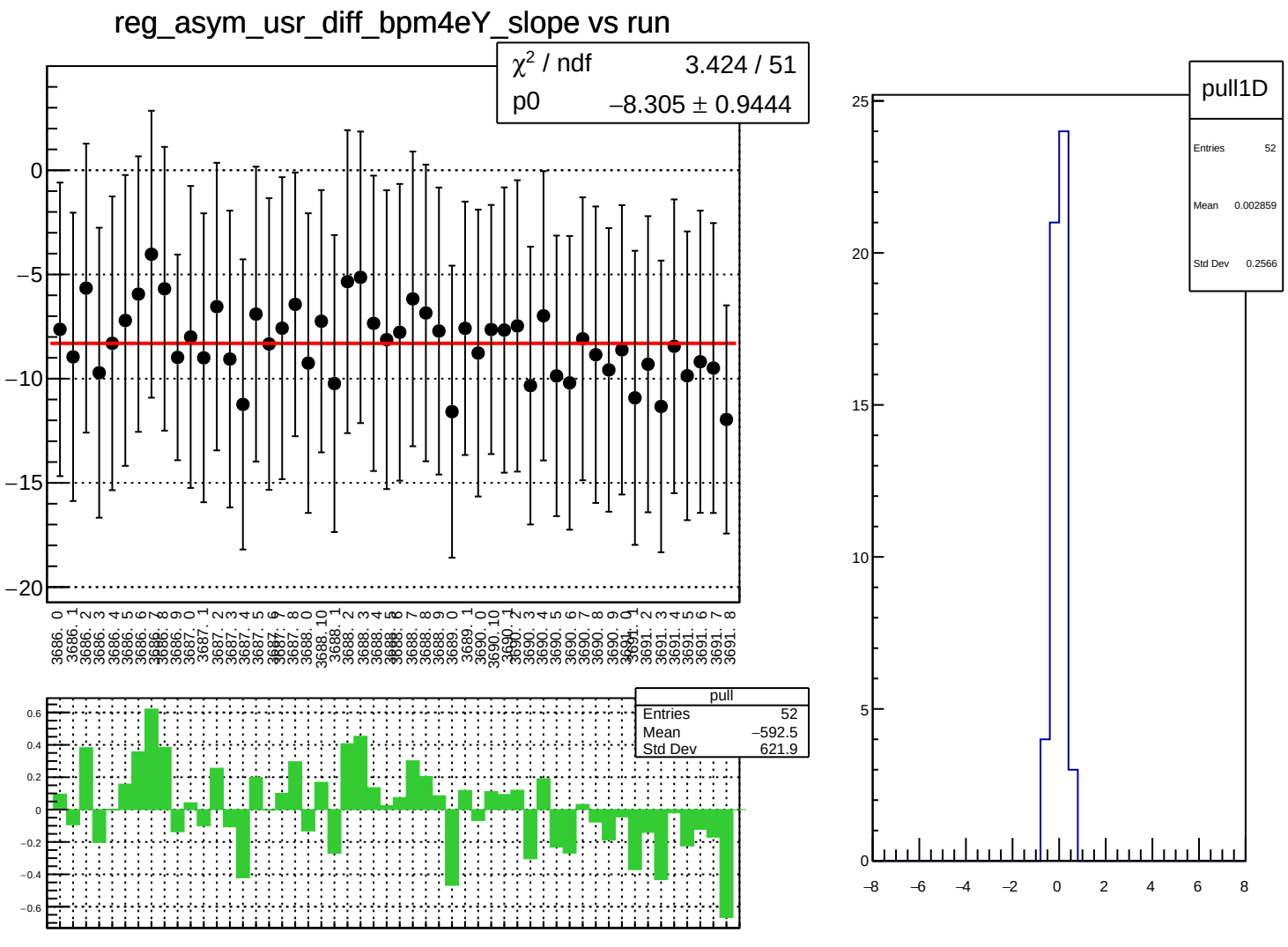

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 4.253 / 51
p0 −31.8 ± 0.8148
pull
Entries 52
Mean 492.4
Std Dev 467.3

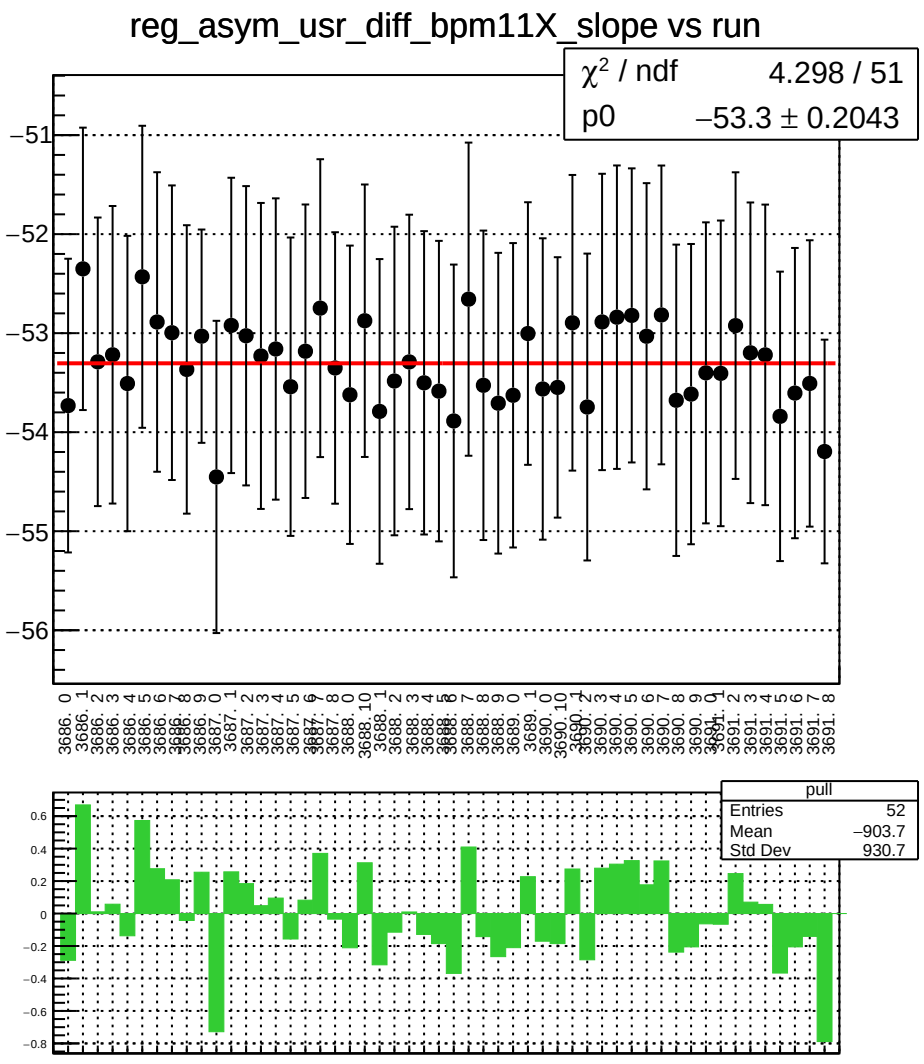

pull1D
Entries 52
Mean 0.002079
Std Dev 0.286

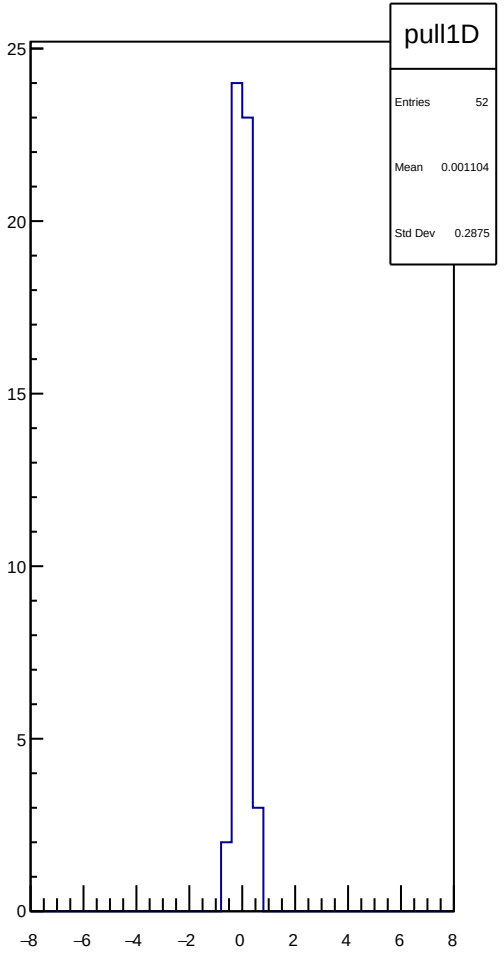

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 3.191 / 51
p0 12.74 ± 0.6043
pull
Entries 52
Mean −639.5
Std Dev 667
pull1D
Entries 52
Mean −0.002412
Std Dev 0.2477

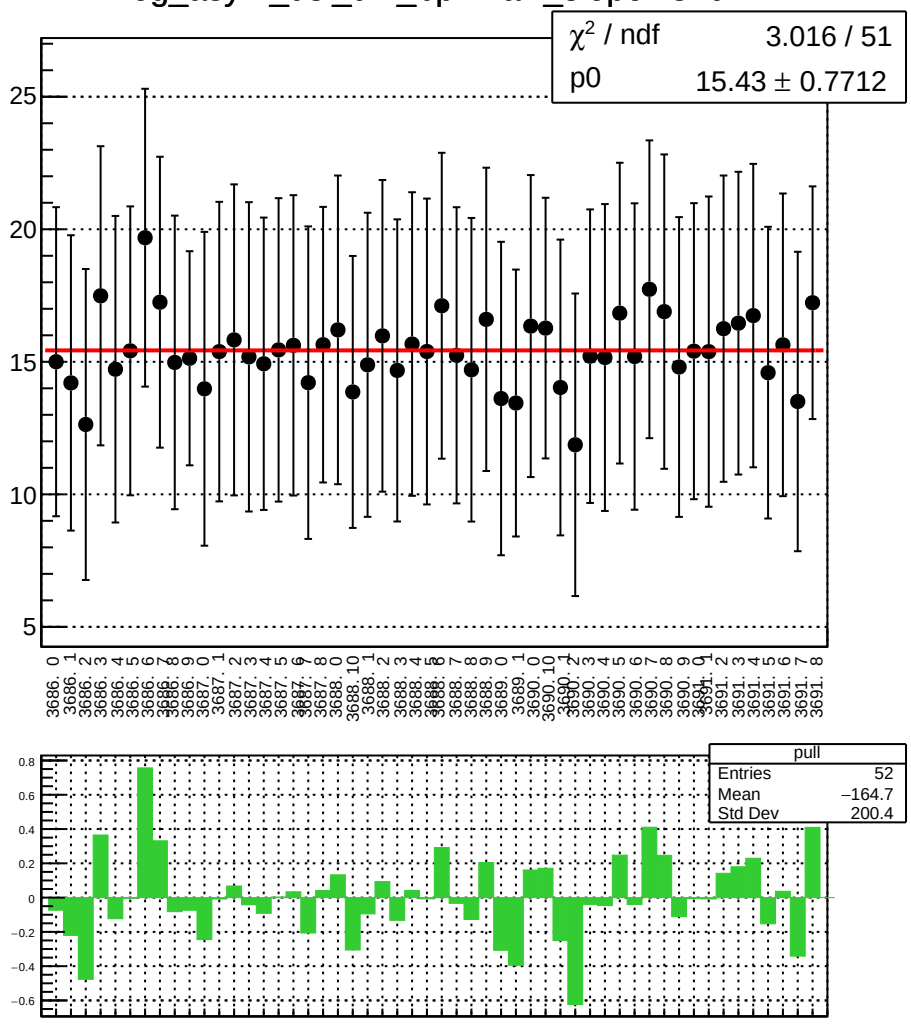

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 21.03 / 51
p0 43.55 ± 0.1598
pull
Entries 52
Mean 867.1
Std Dev 843

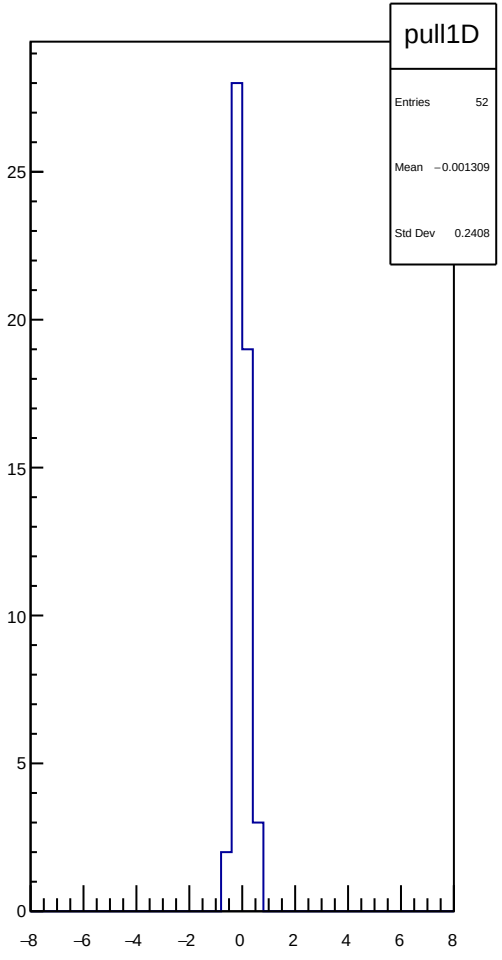

pull1D
Entries 52
Mean −0.002073
Std Dev 0.6359

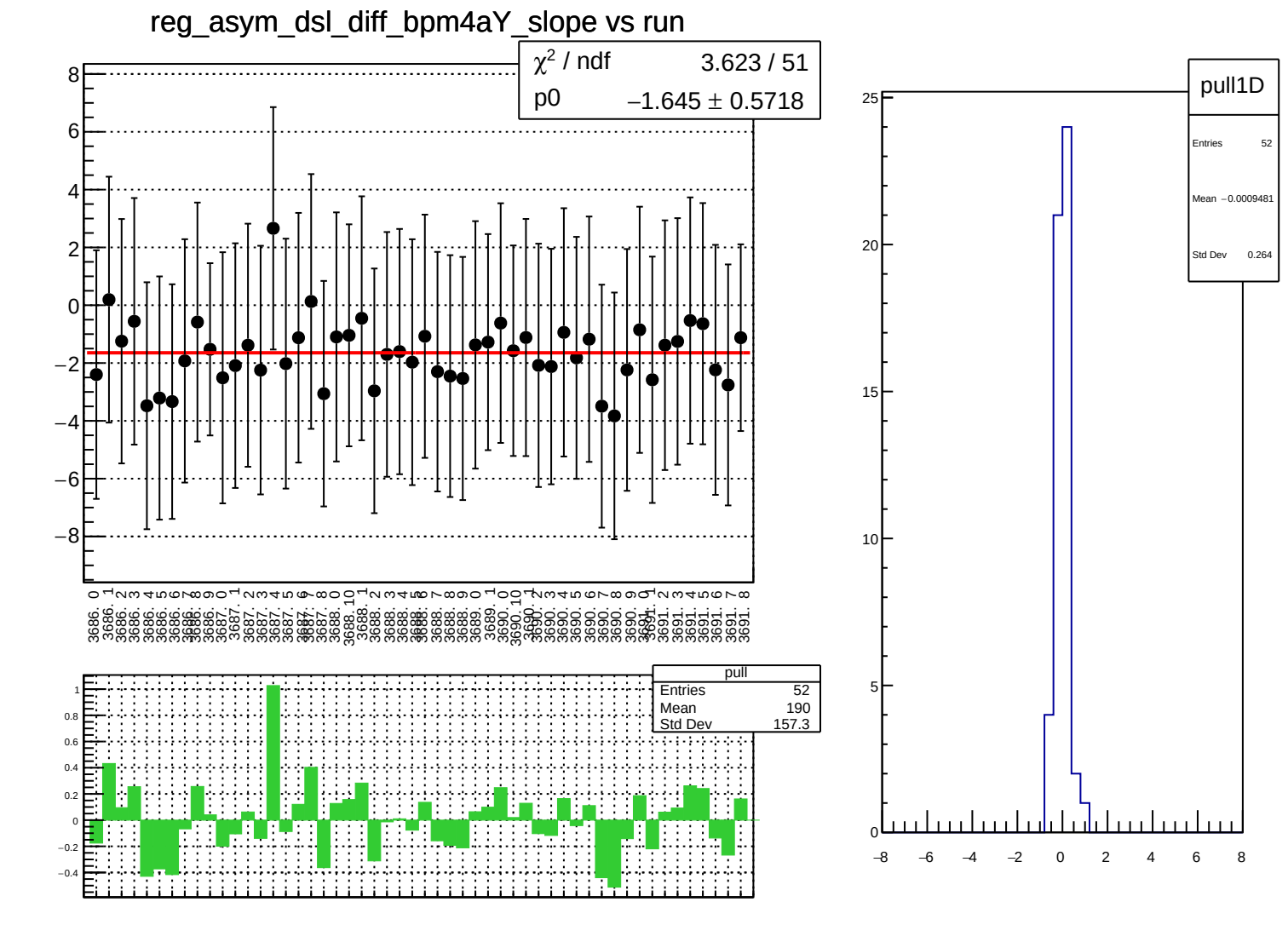

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 3.424 / 51
p0 −8.305 ± 0.9444
pull
Entries 52
Mean −592.5
Std Dev 621.9
pull1D
Entries 52
Mean 0.002859
Std Dev 0.2566

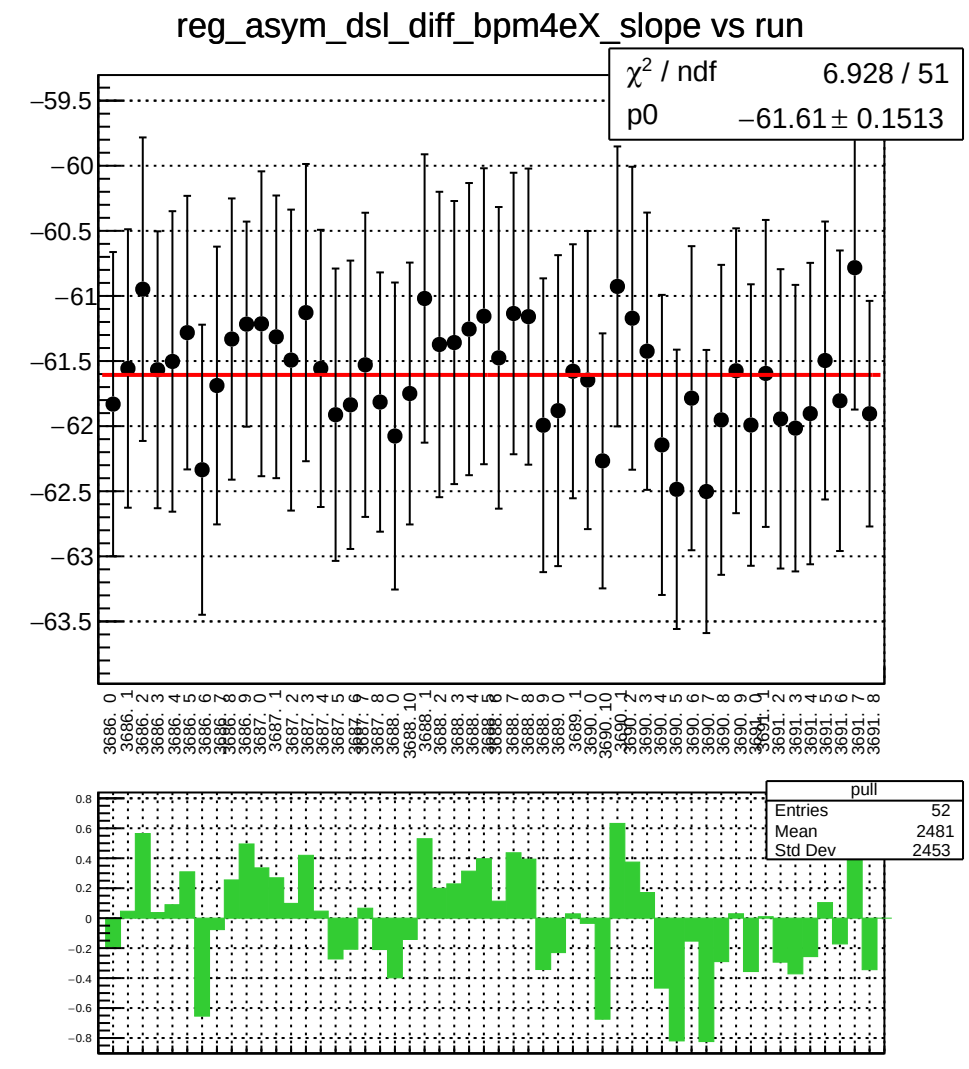

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 4.298 / 51
p0 −53.3 ± 0.2043
pull
Entries 52
Mean −903.7
Std Dev 930.7

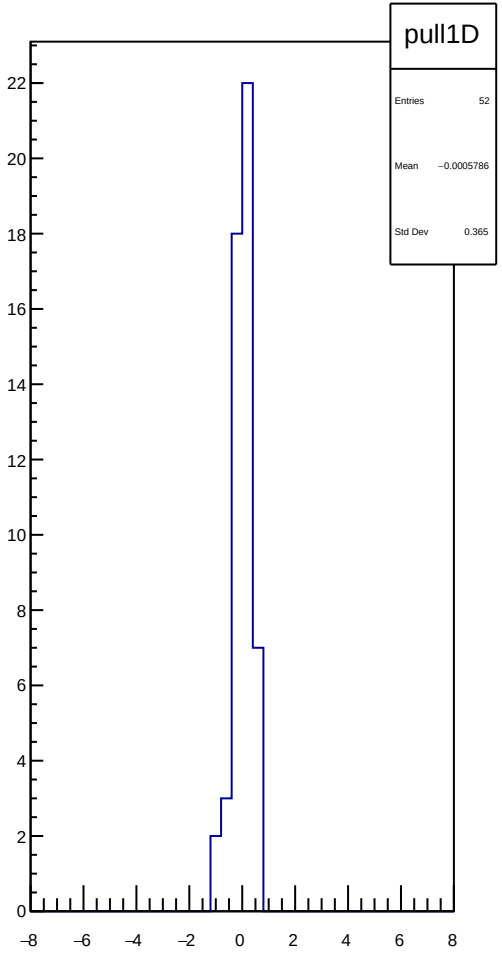

pull1D
Entries 52
Mean 0.001104
Std Dev 0.2875

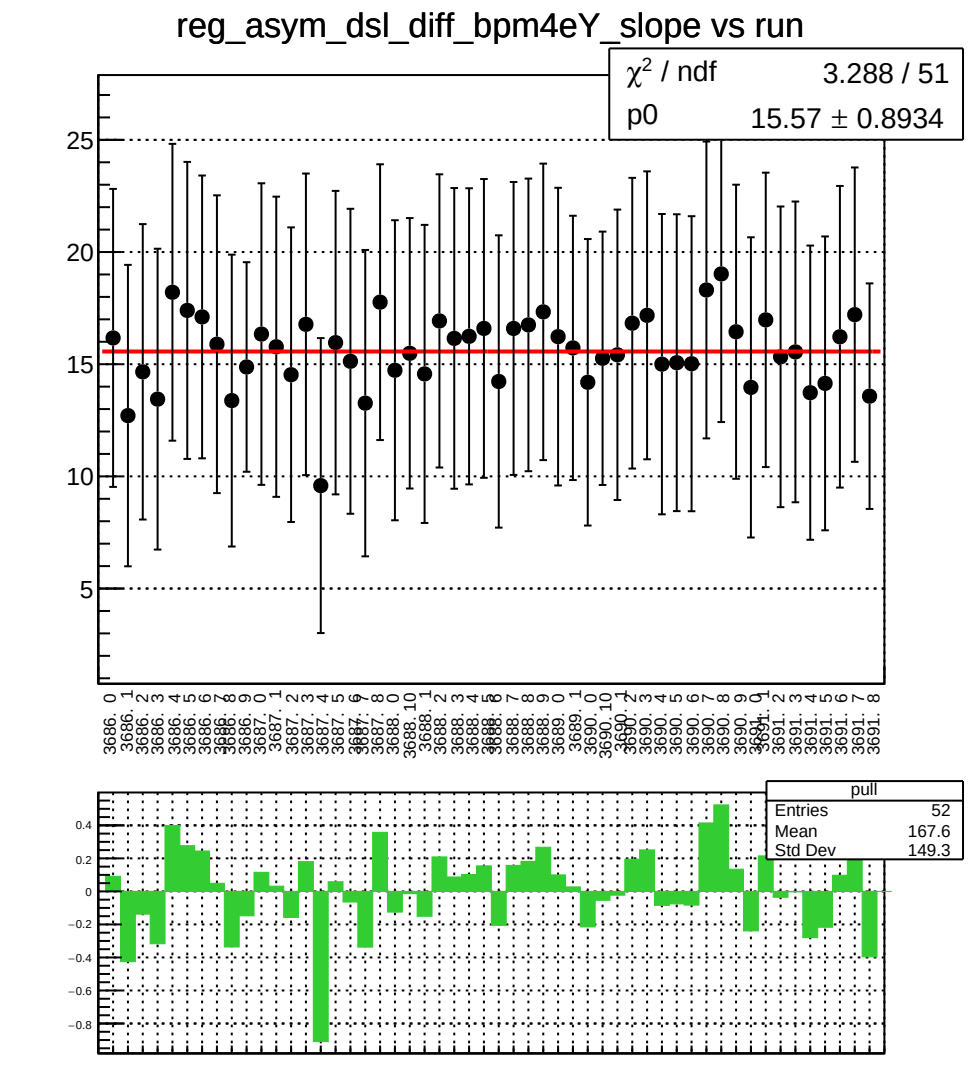

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 3.016 / 51
p0 15.43 ± 0.7712
pull
Entries 52
Mean −164.7
Std Dev 200.4

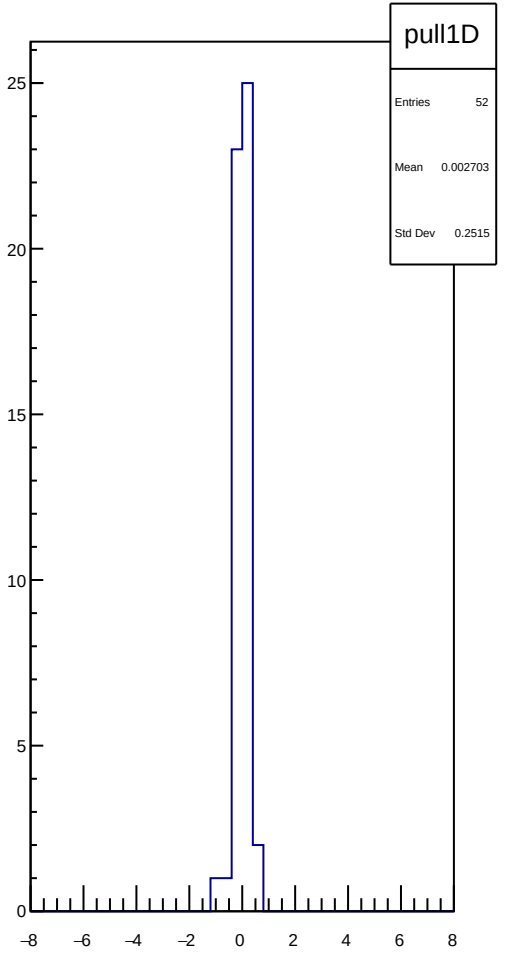

pull1D
Entries 52
Mean −0.001309
Std Dev 0.2408

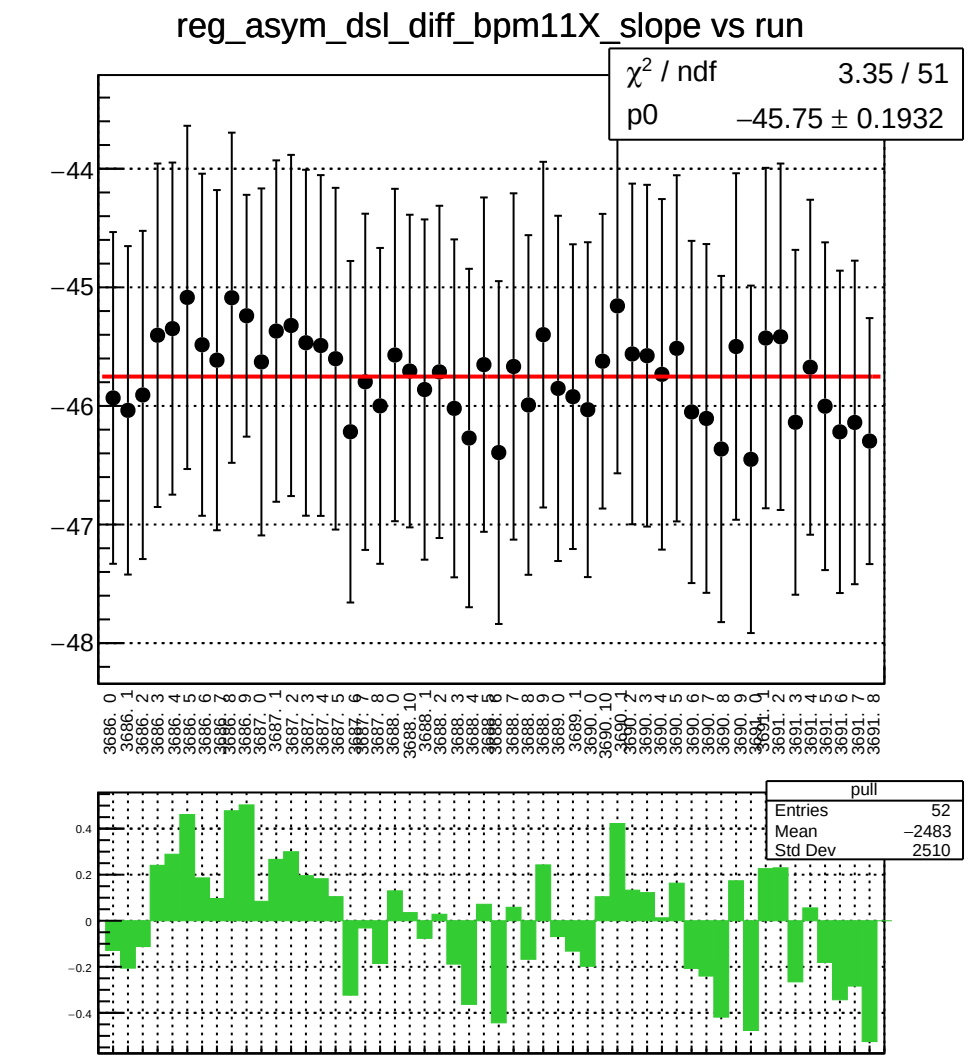

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 3.623 / 51
p0 −1.645 ± 0.5718
pull
Entries 52
Mean 190
Std Dev 157.3
pull1D
Entries 52
Mean −0.0009481
Std Dev 0.264

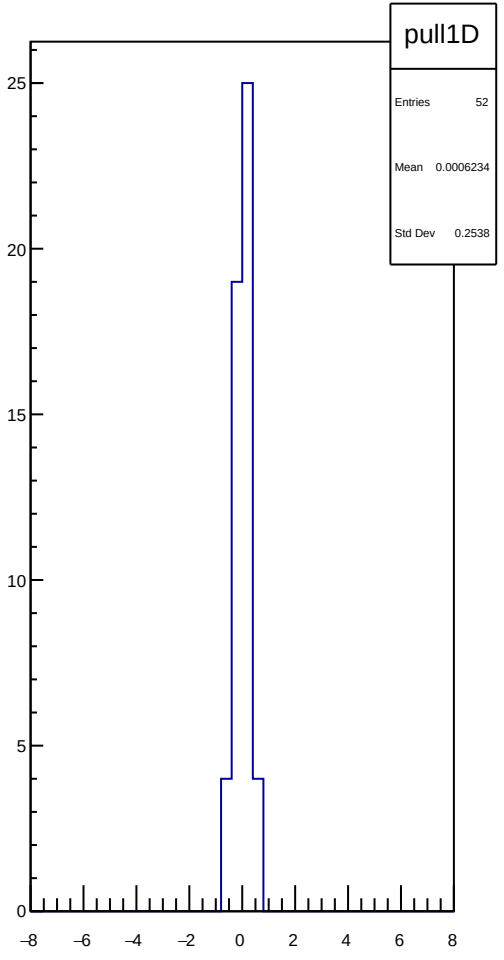

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 6.928 / 51
p0 −61.61 ± 0.1513
pull
Entries 52
Mean 2481
Std Dev 2453

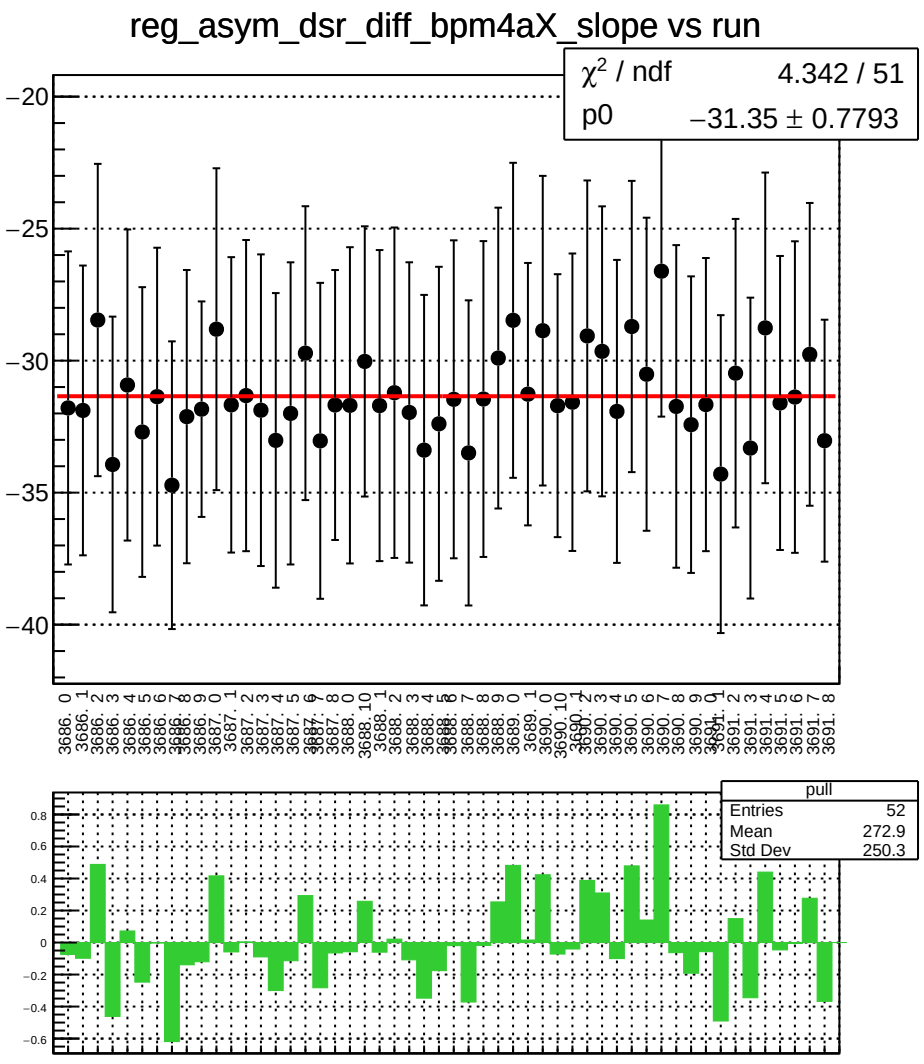

pull1D
Entries 52
Mean −0.0005786
Std Dev 0.365

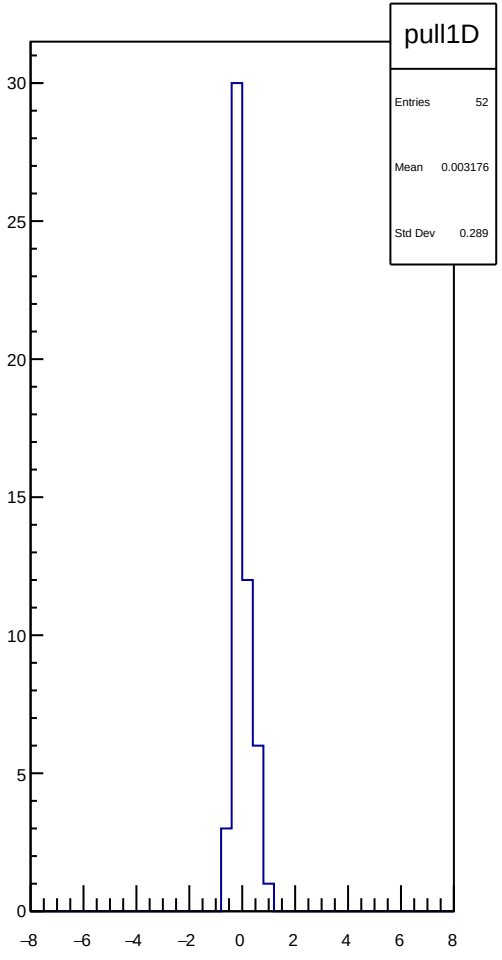

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 3.288 / 51
p0 15.57 ± 0.8934
pull
Entries 52
Mean 167.6
Std Dev 149.3

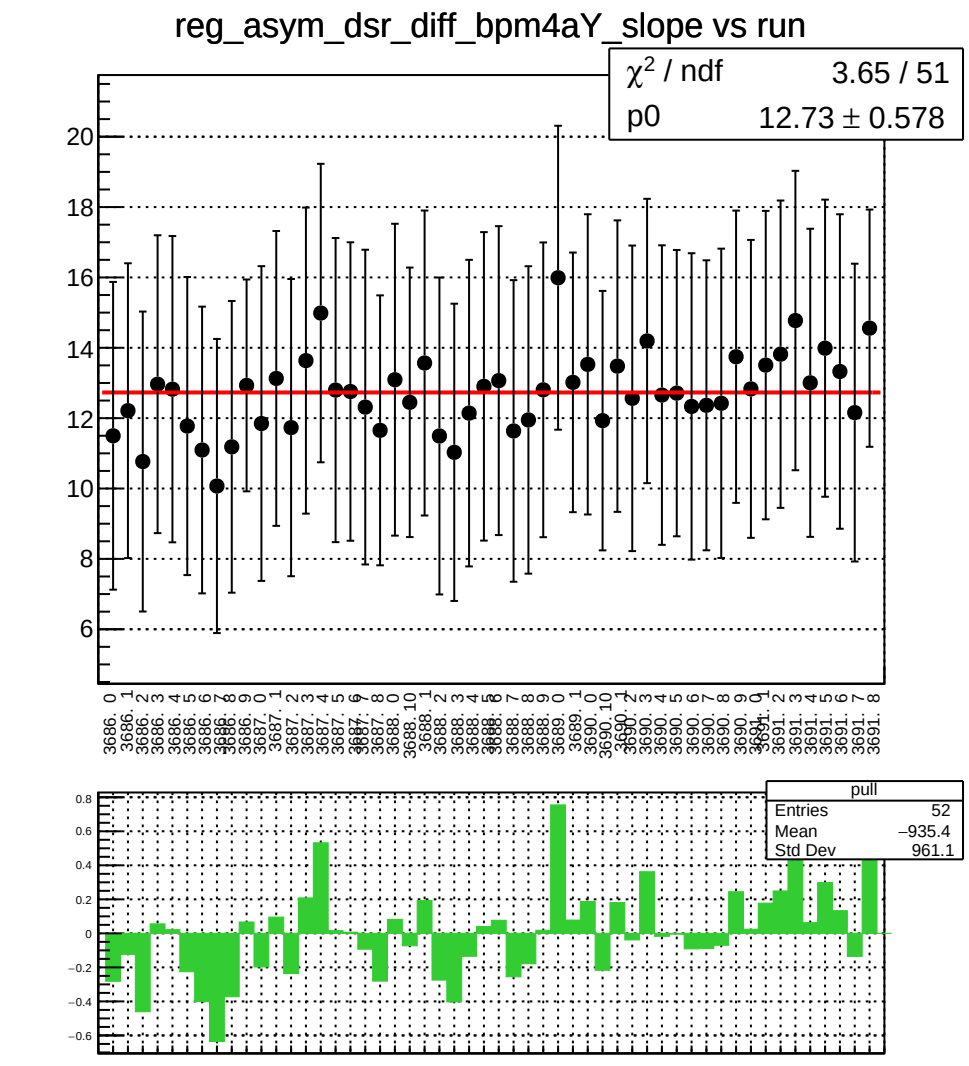

pull1D
Entries 52
Mean 0.002703
Std Dev 0.2515

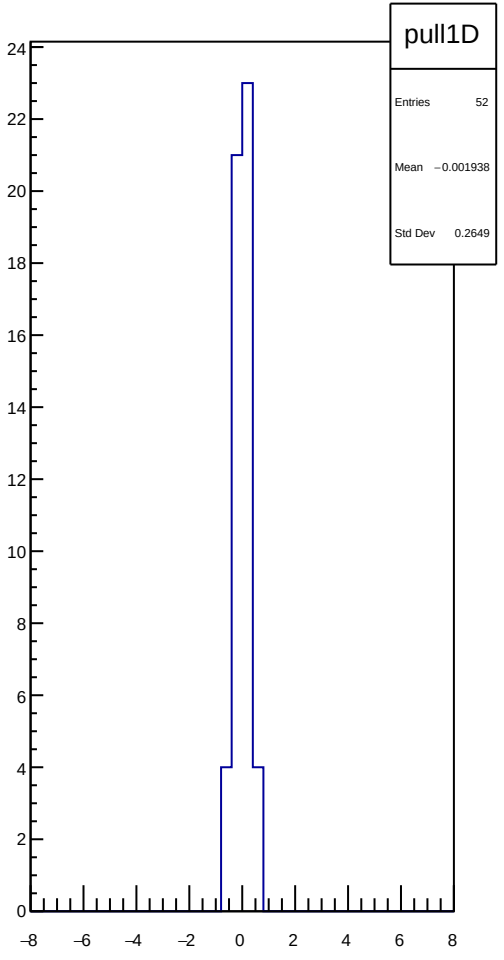

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 3.35 / 51
p0 −45.75 ± 0.1932
pull
Entries 52
Mean −2483
Std Dev 2510

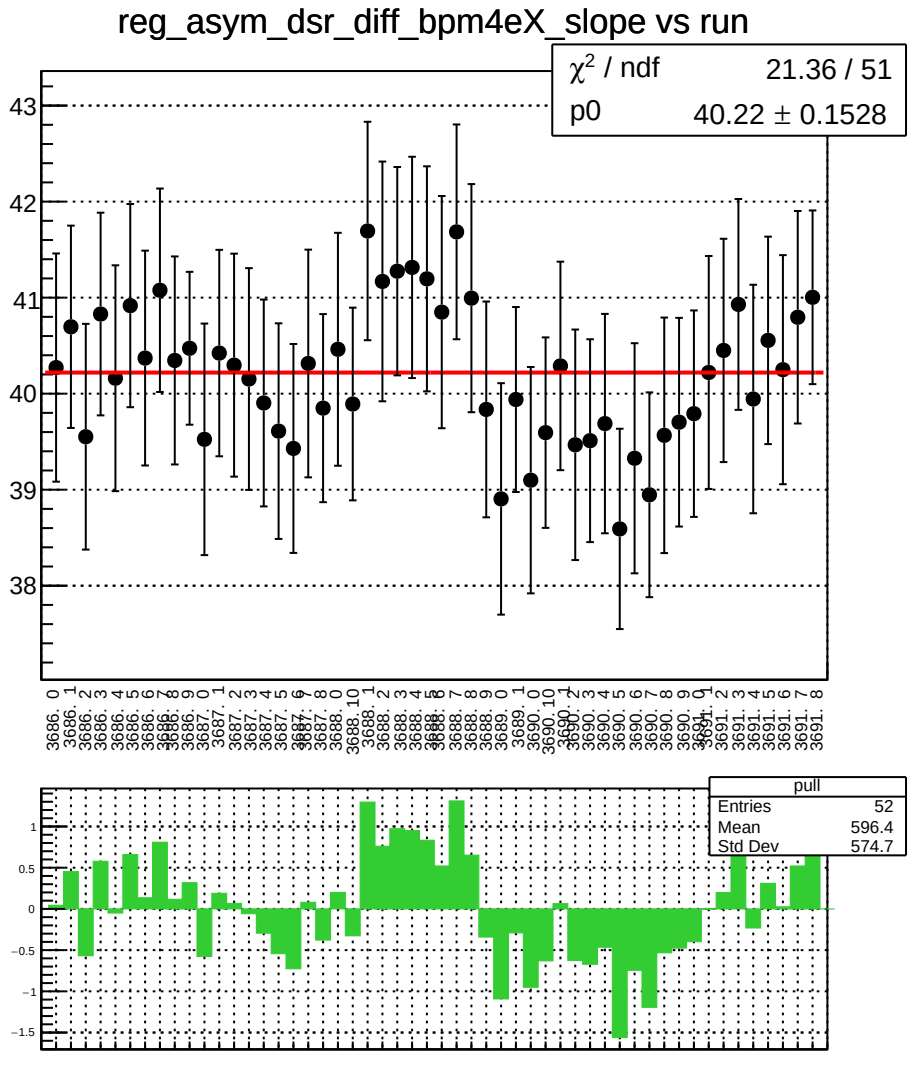

pull1D
Entries 52
Mean 0.0006234
Std Dev 0.2538

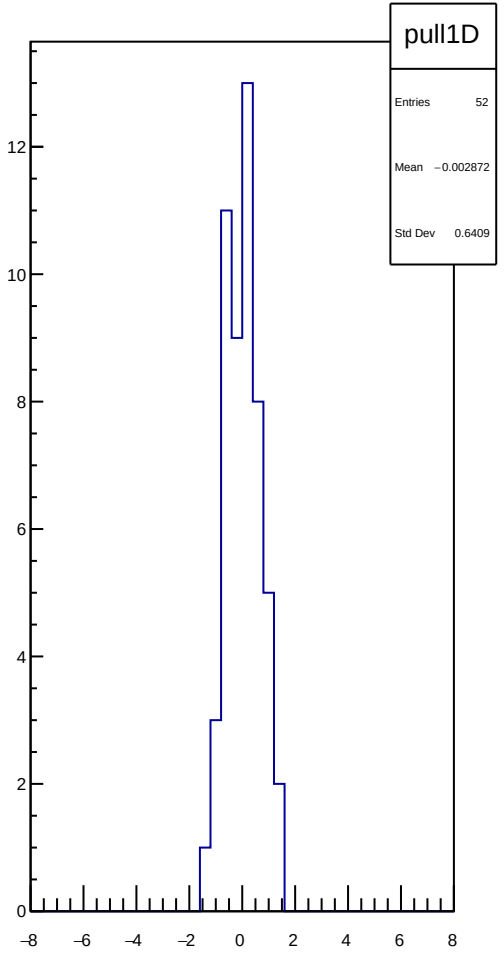

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 4.342 / 51
p0 −31.35 ± 0.7793
pull
Entries 52
Mean 272.9
Std Dev 250.3

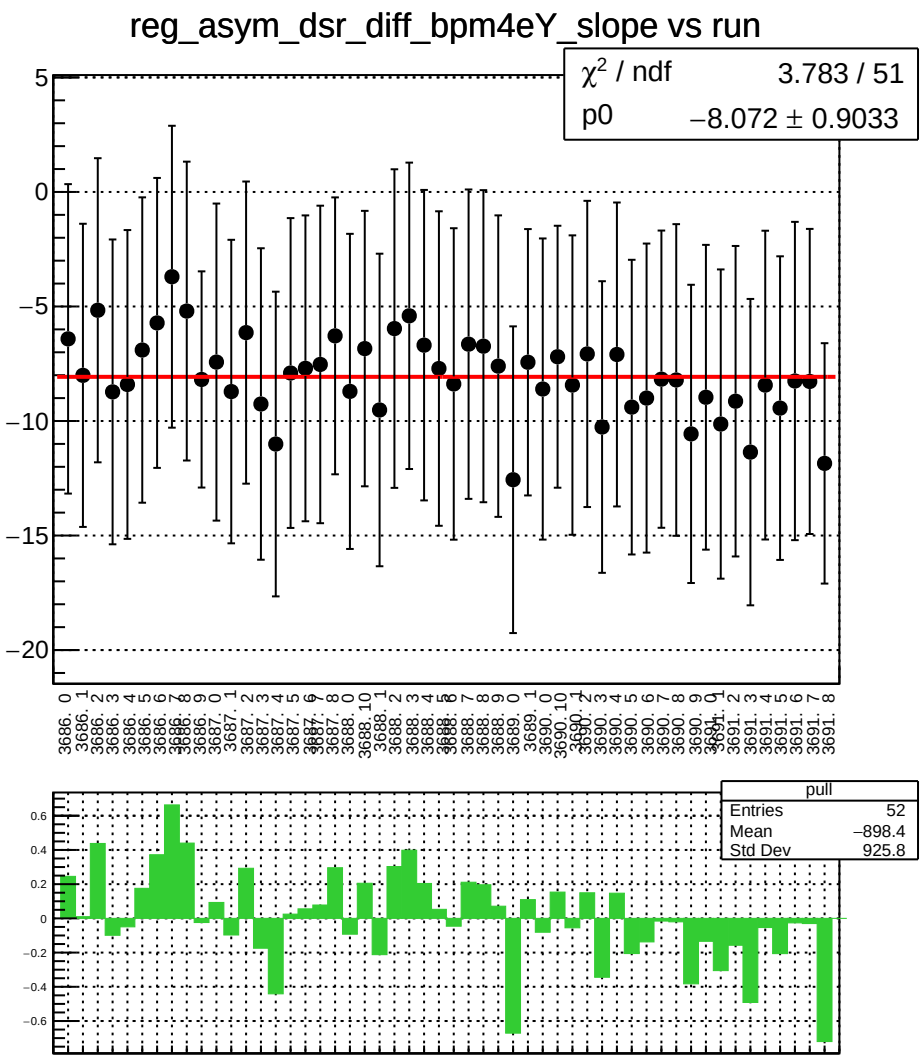

pull1D
Entries 52
Mean 0.003176
Std Dev 0.289

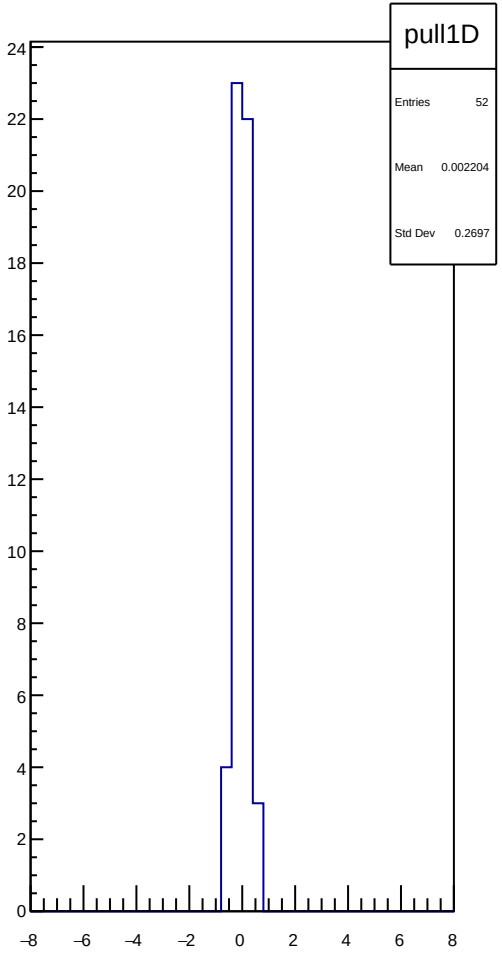

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 3.65 / 51
p0 12.73 ± 0.578
pull
Entries 52
Mean −935.4
Std Dev 961.1

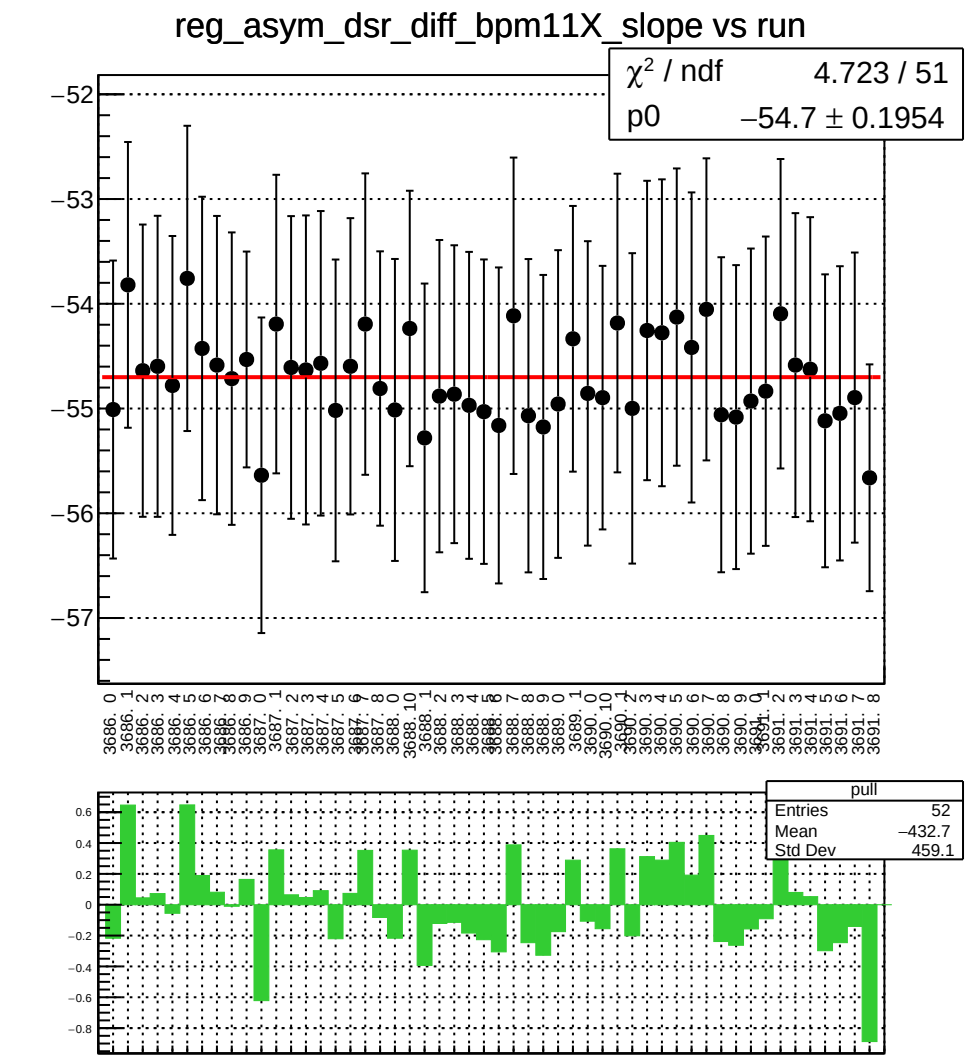

pull1D
Entries 52
Mean −0.001938
Std Dev 0.2649

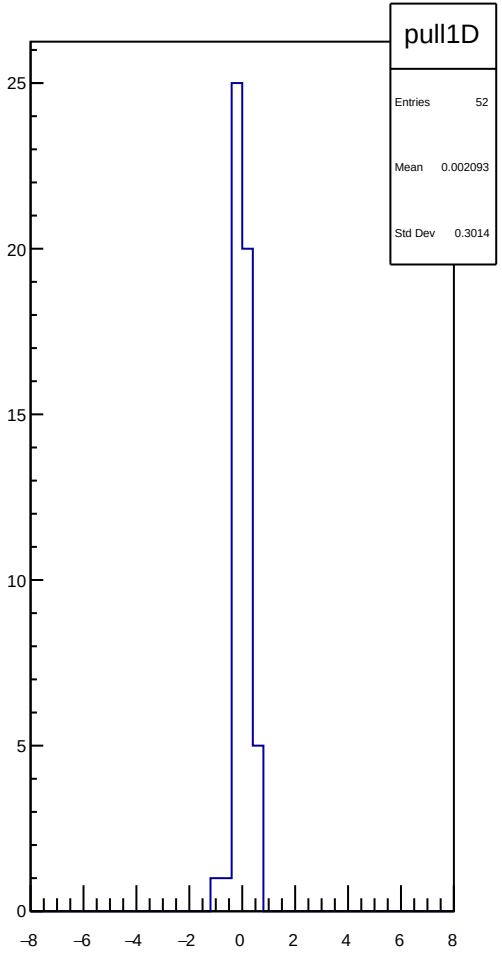

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 21.36 / 51
p0 40.22 ± 0.1528
pull
Entries 52
Mean 596.4
Std Dev 574.7

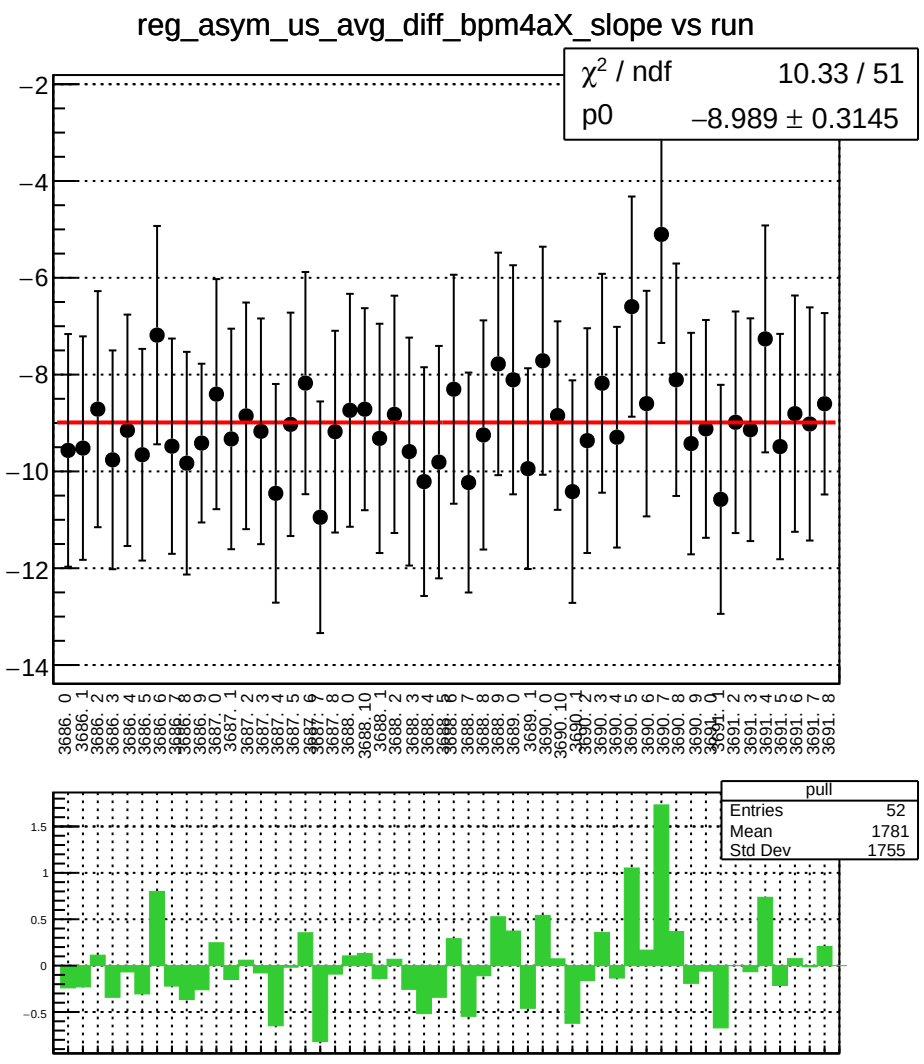

pull1D
Entries 52
Mean −0.002872
Std Dev 0.6409

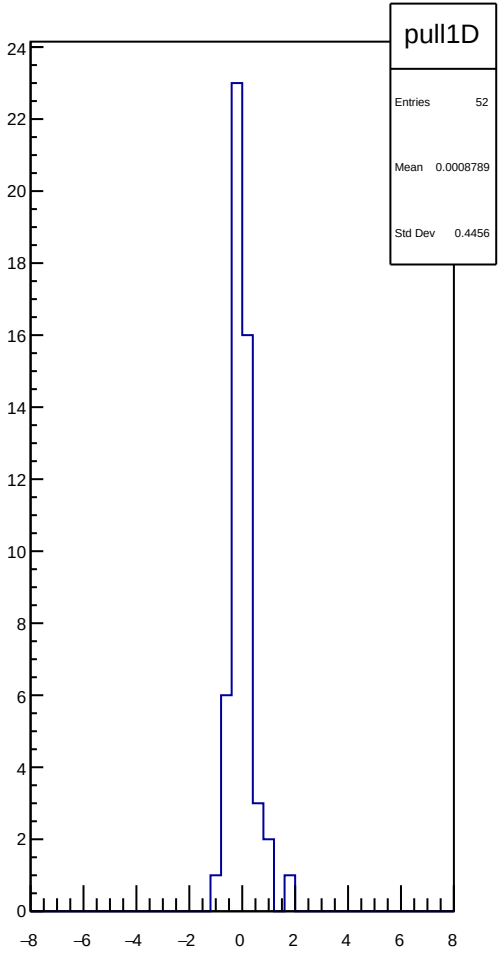

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 3.783 / 51
p0 −8.072 ± 0.9033
pull
Entries 52
Mean −898.4
Std Dev 925.8

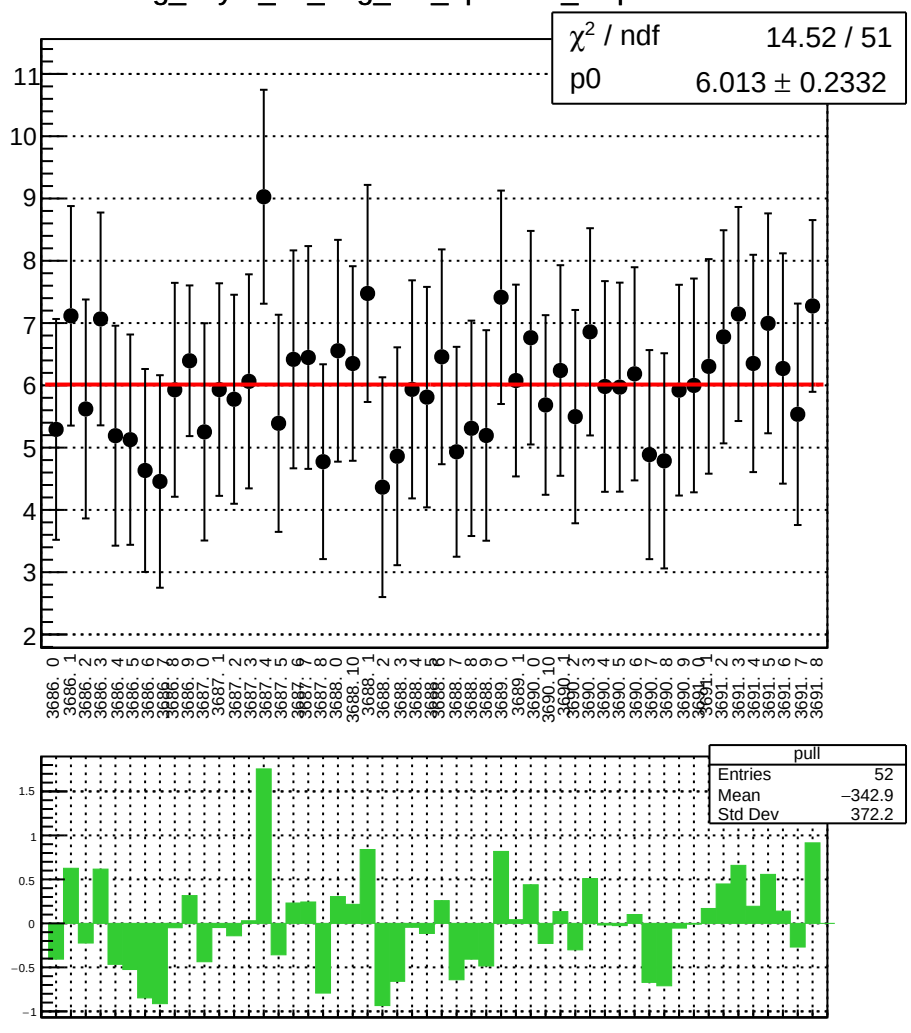

pull1D
Entries 52
Mean 0.002204
Std Dev 0.2697

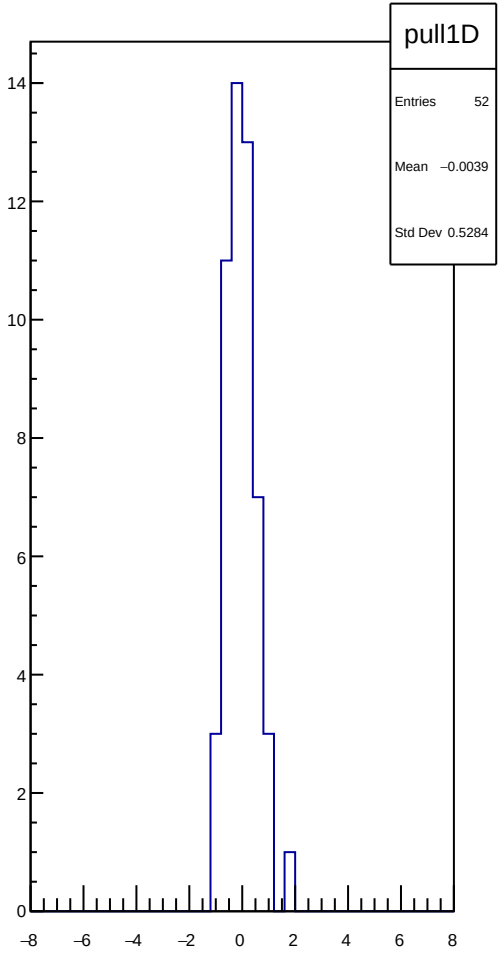

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 4.723 / 51
p0 −54.7 ± 0.1954
pull
Entries 52
Mean −432.7
Std Dev 459.1

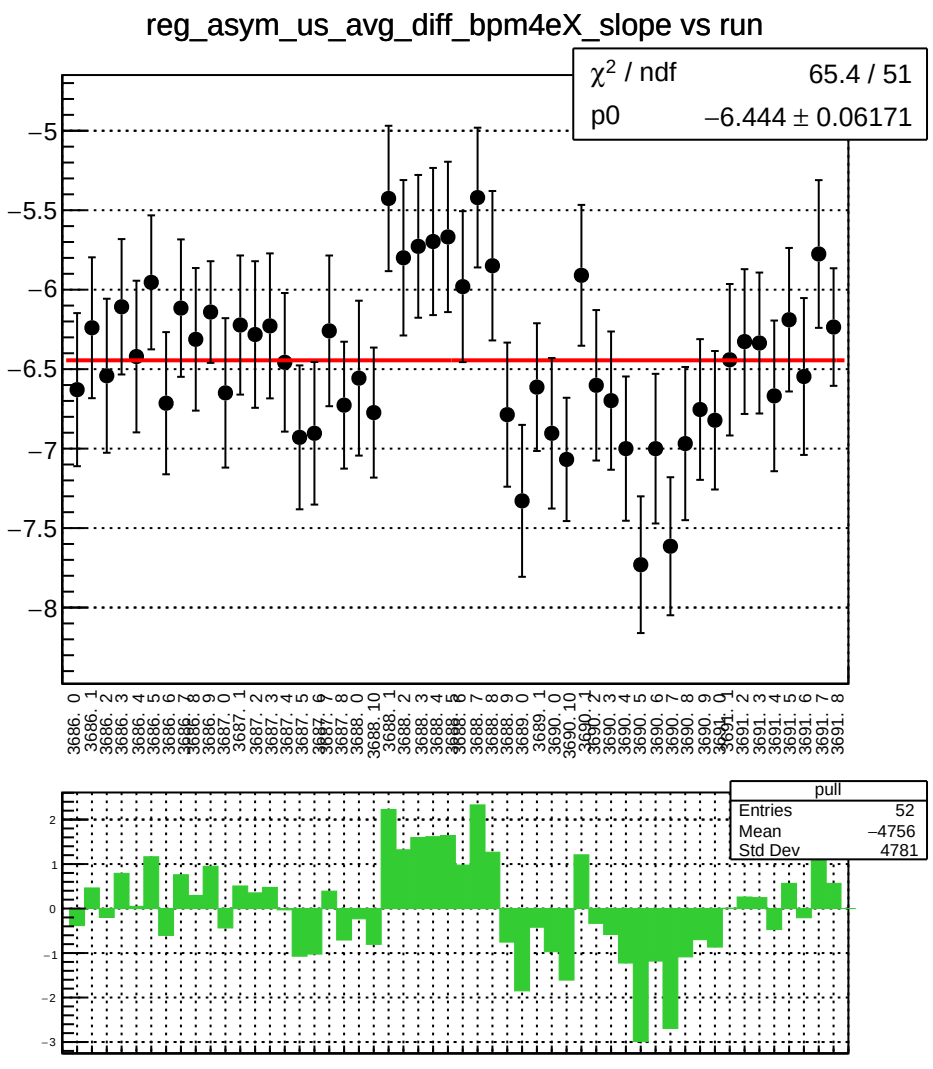

pull1D
Entries 52
Mean 0.002093
Std Dev 0.3014

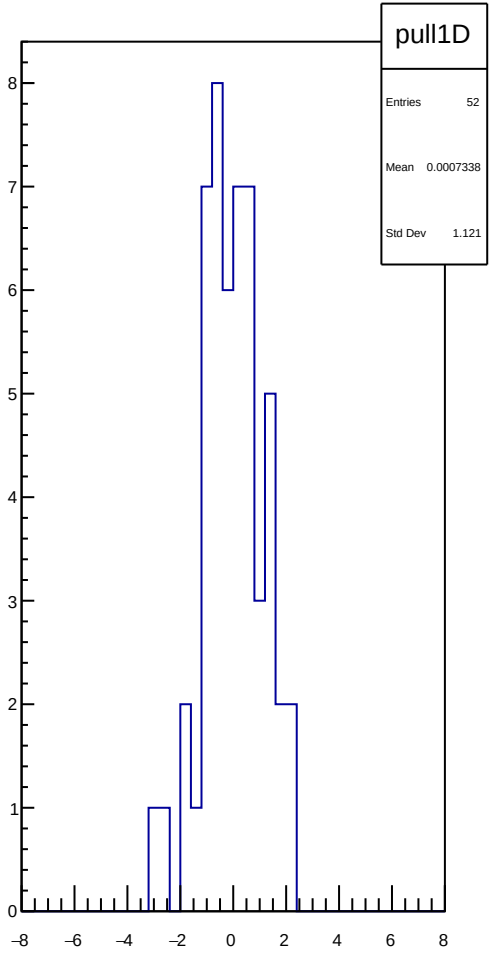

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.33 / 51
p0 −8.989 ± 0.3145
pull
Entries 52
Mean 1781
Std Dev 1755

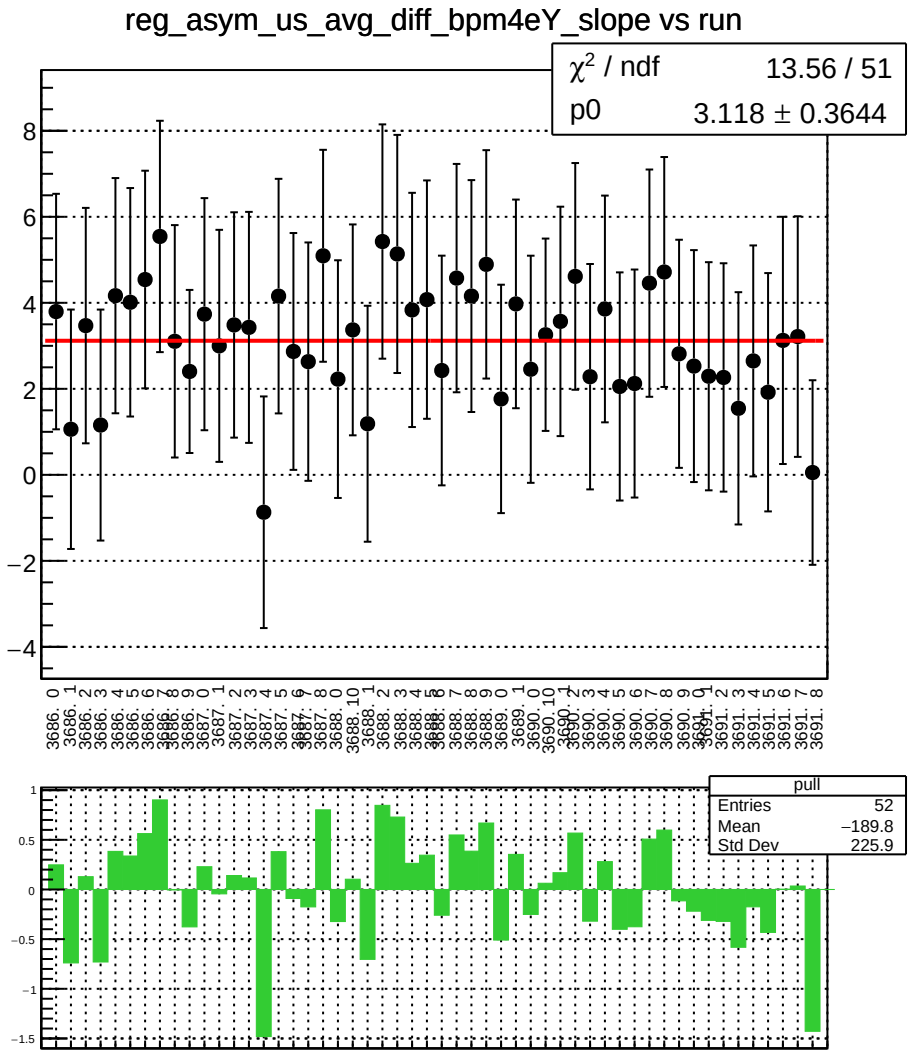

pull1D
Entries 52
Mean 0.0008789
Std Dev 0.4456

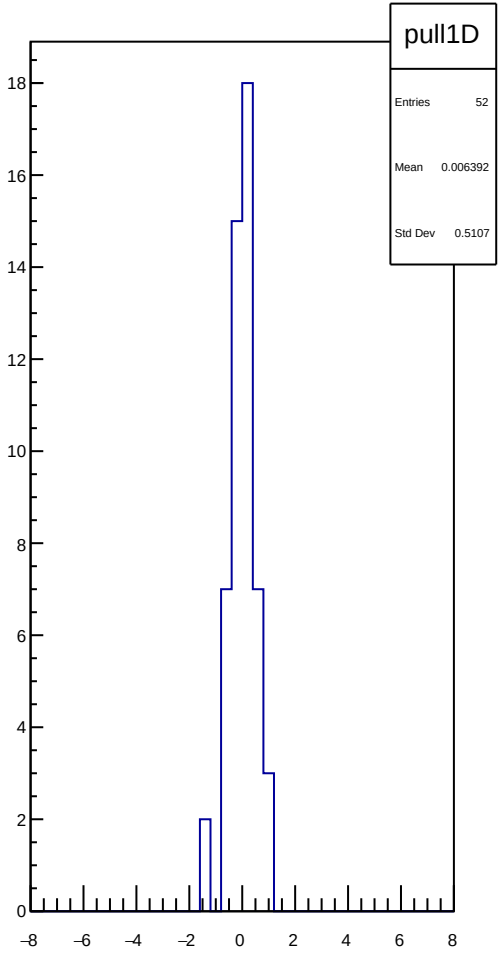

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.52 / 51
p0 6.013 ± 0.2332
pull
Entries 52
Mean −342.9
Std Dev 372.2

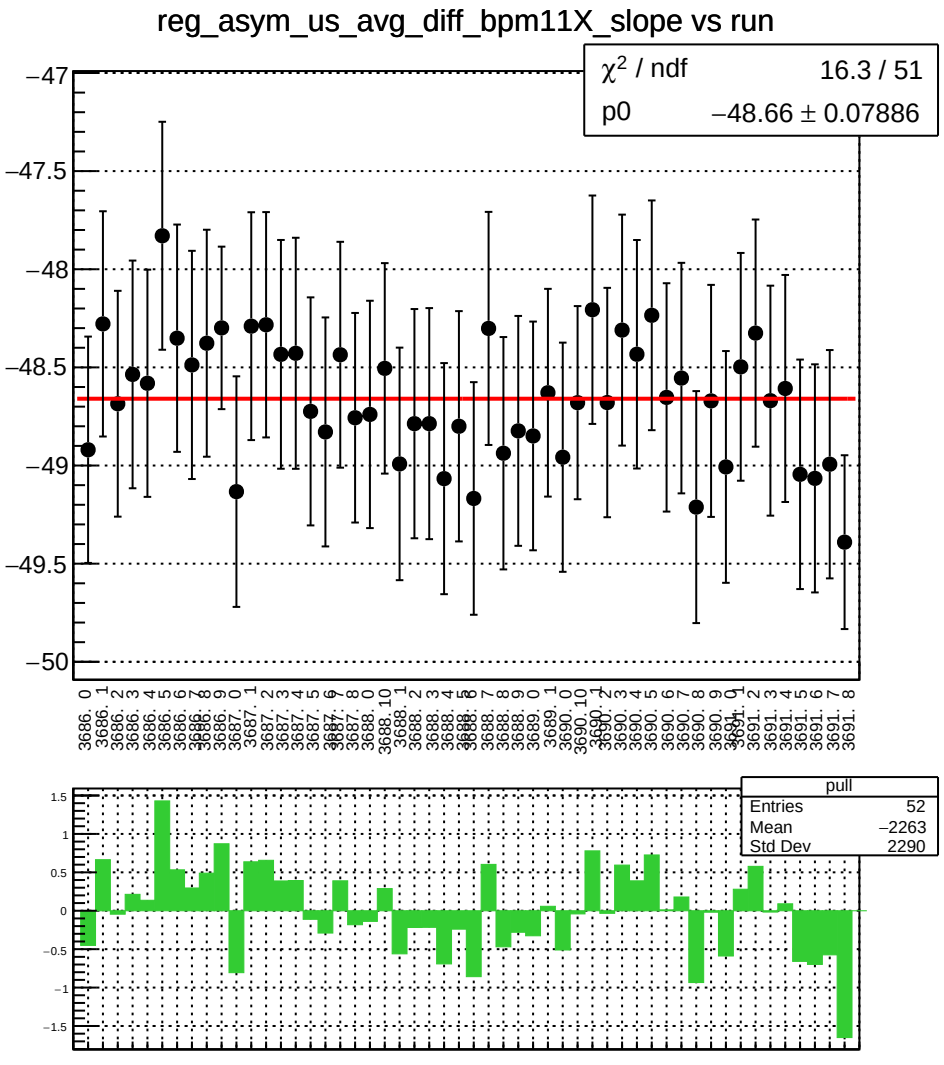

pull1D
Entries 52
Mean −0.0039
Std Dev 0.5284

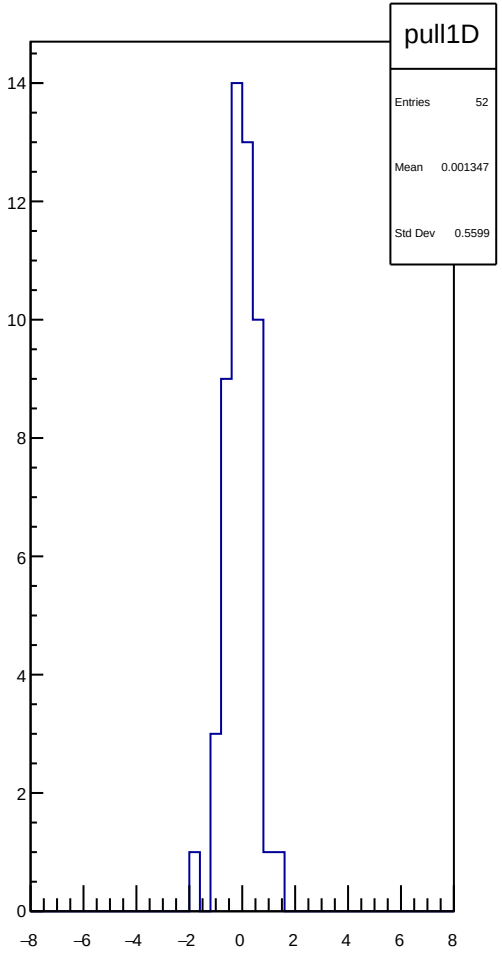

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.4 / 51
p0 −6.444 ± 0.06171
pull
Entries 52
Mean −4756
Std Dev 4781

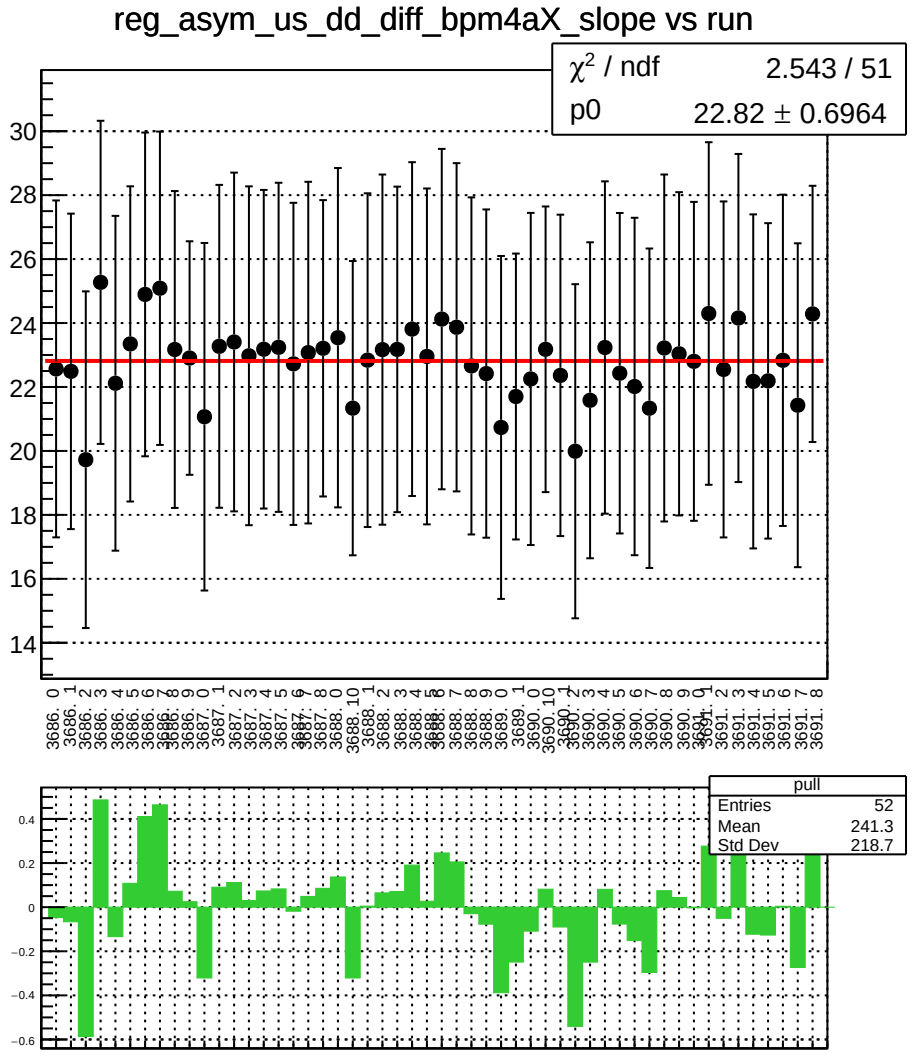

pull1D
Entries 52
Mean 0.0007338
Std Dev 1.121

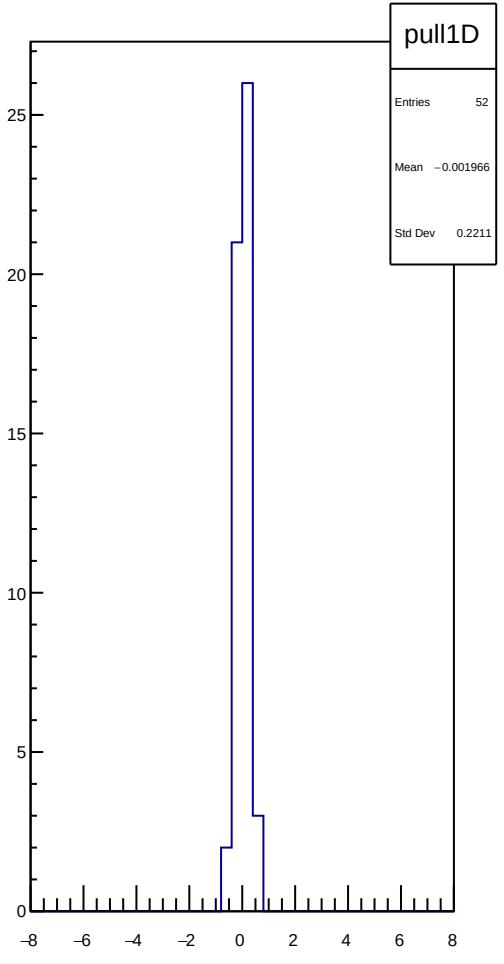

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.56 / 51
p0 3.118 ± 0.3644
pull
Entries 52
Mean −189.8
Std Dev 225.9

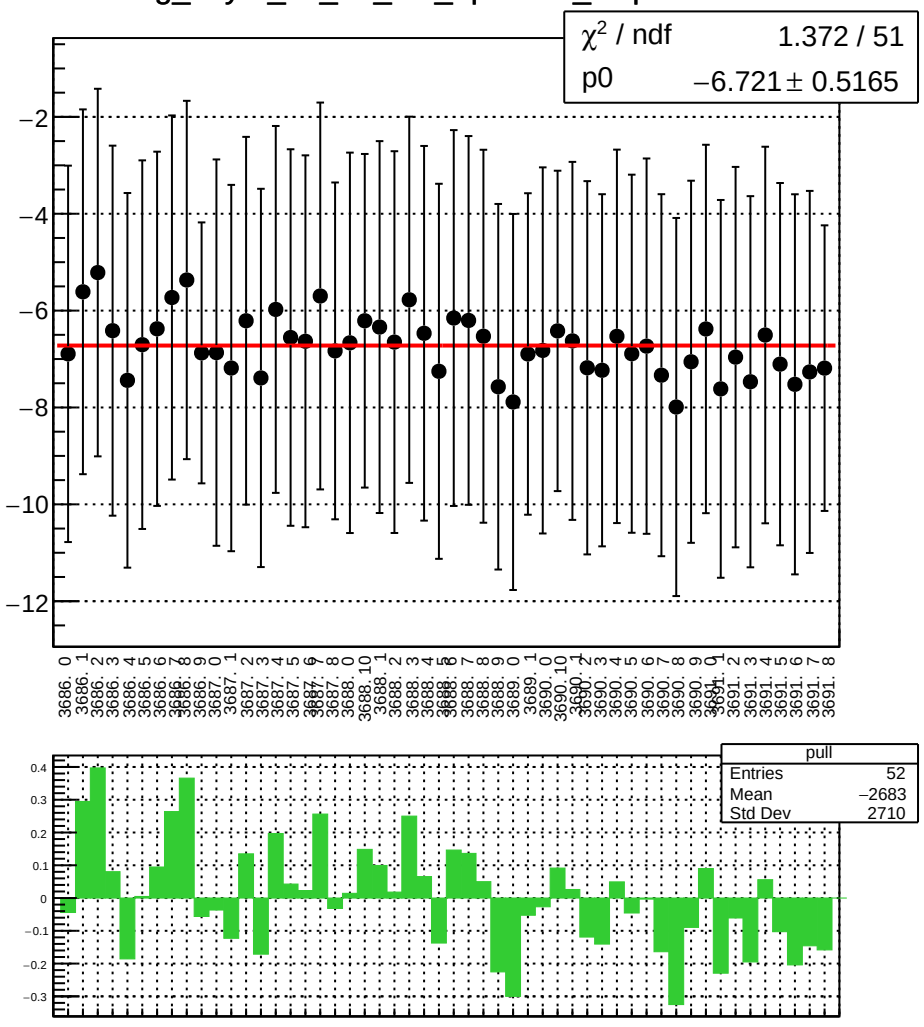

pull1D
Entries 52
Mean 0.006392
Std Dev 0.5107

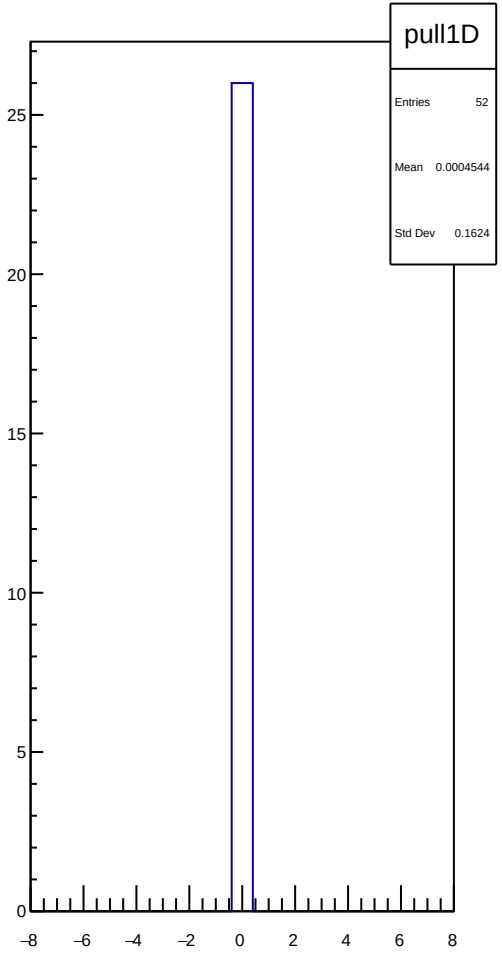

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 16.3 / 51
p0 −48.66 ± 0.07886
pull
Entries 52
Mean −2263
Std Dev 2290

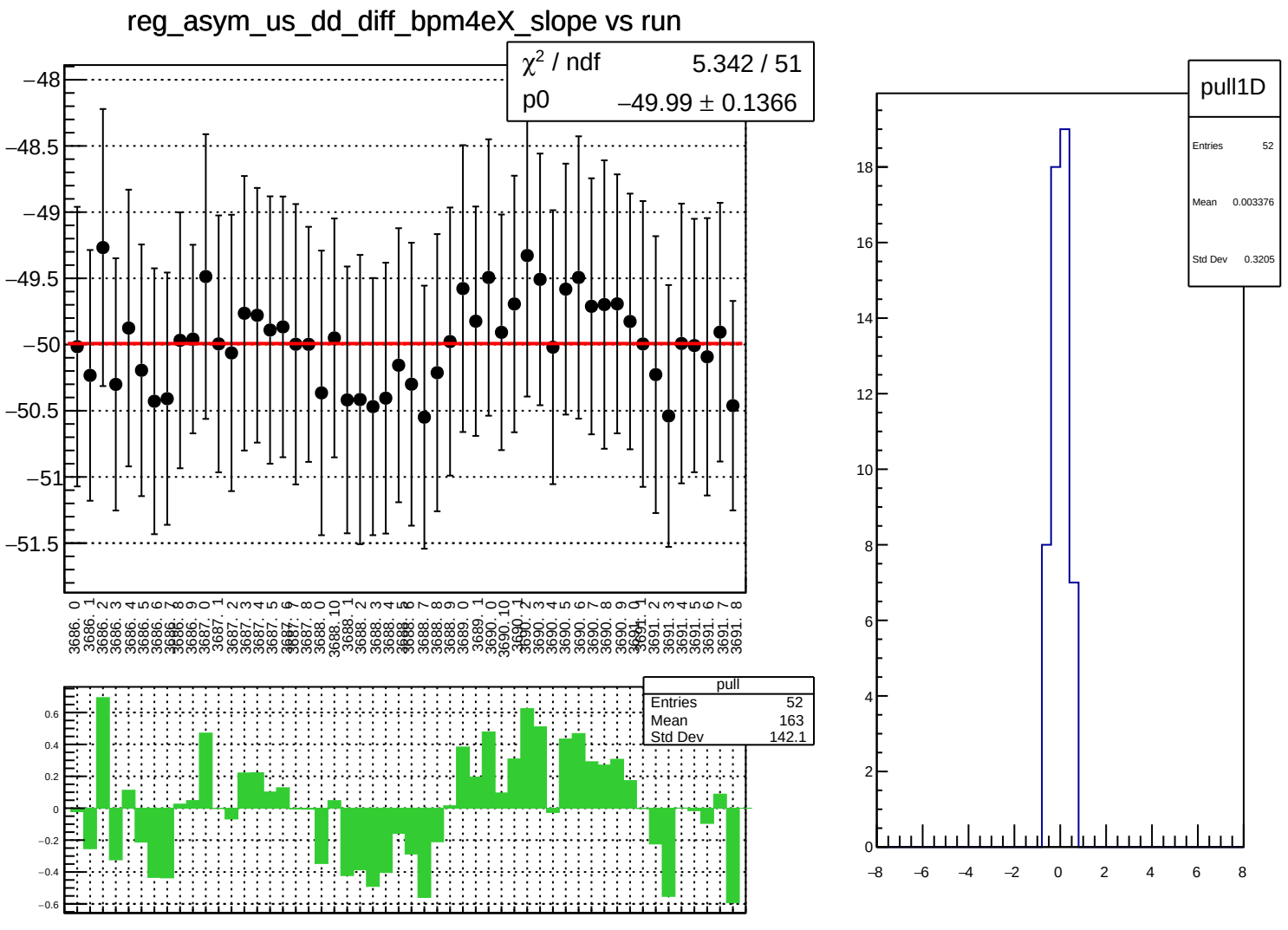

pull1D
Entries 52
Mean 0.001347
Std Dev 0.5599

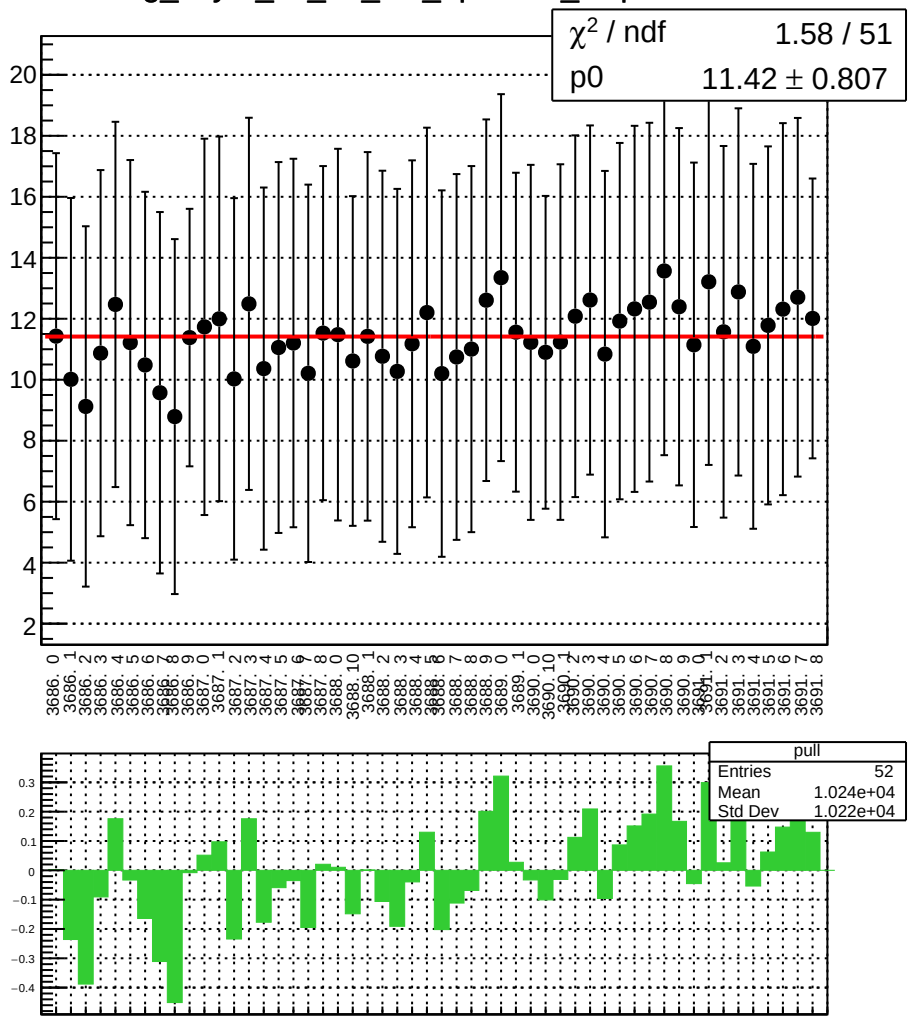

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.543 / 51
p0 22.82 ± 0.6964
pull
Entries 52
Mean 241.3
Std Dev 218.7

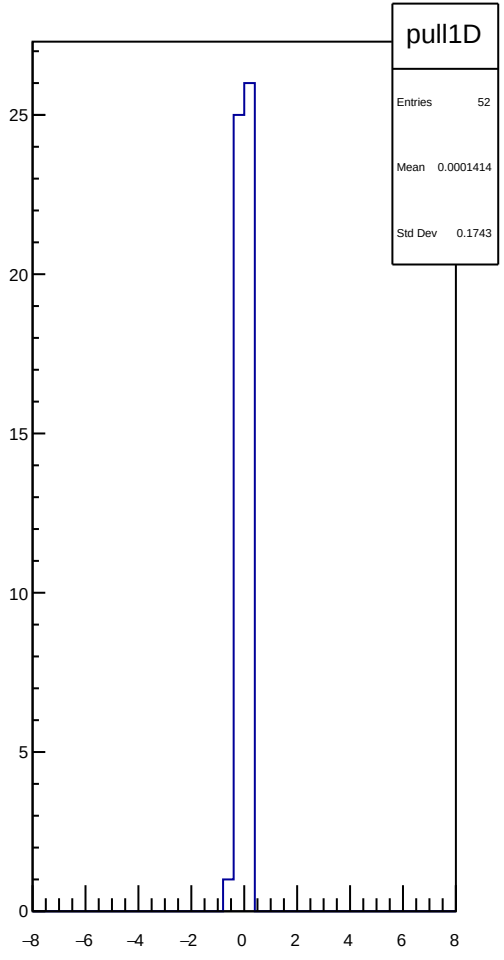

pull1D
Entries 52
Mean −0.001966
Std Dev 0.2211

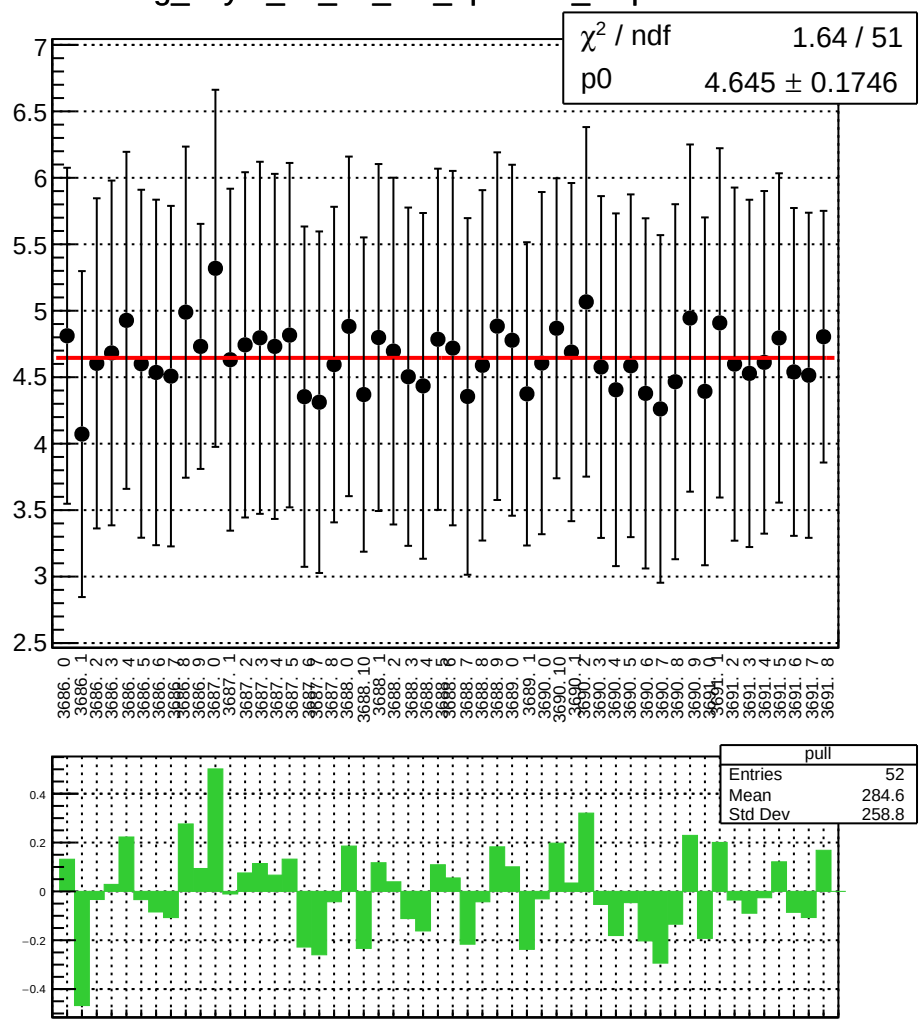

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.372 / 51
p0 −6.721 ± 0.5165
pull
Entries 52
Mean −2683
Std Dev 2710

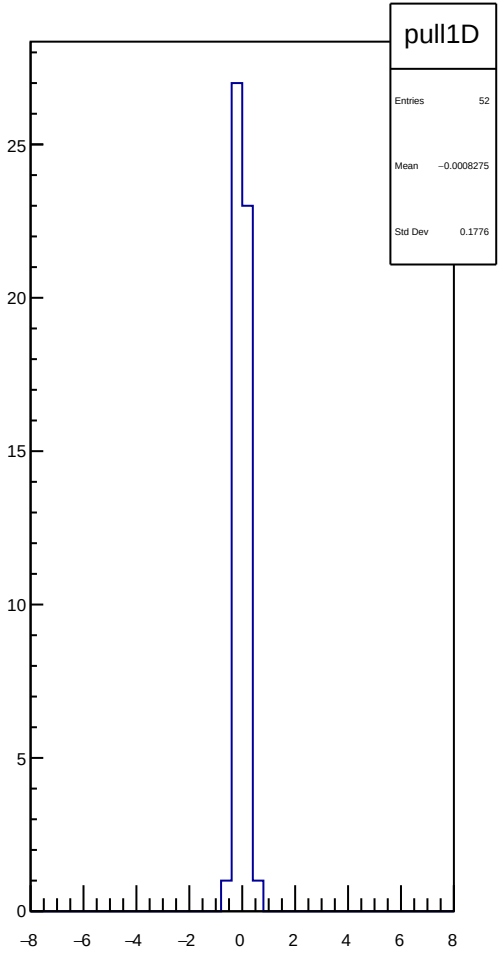

pull1D
Entries 52
Mean 0.0004544
Std Dev 0.1624

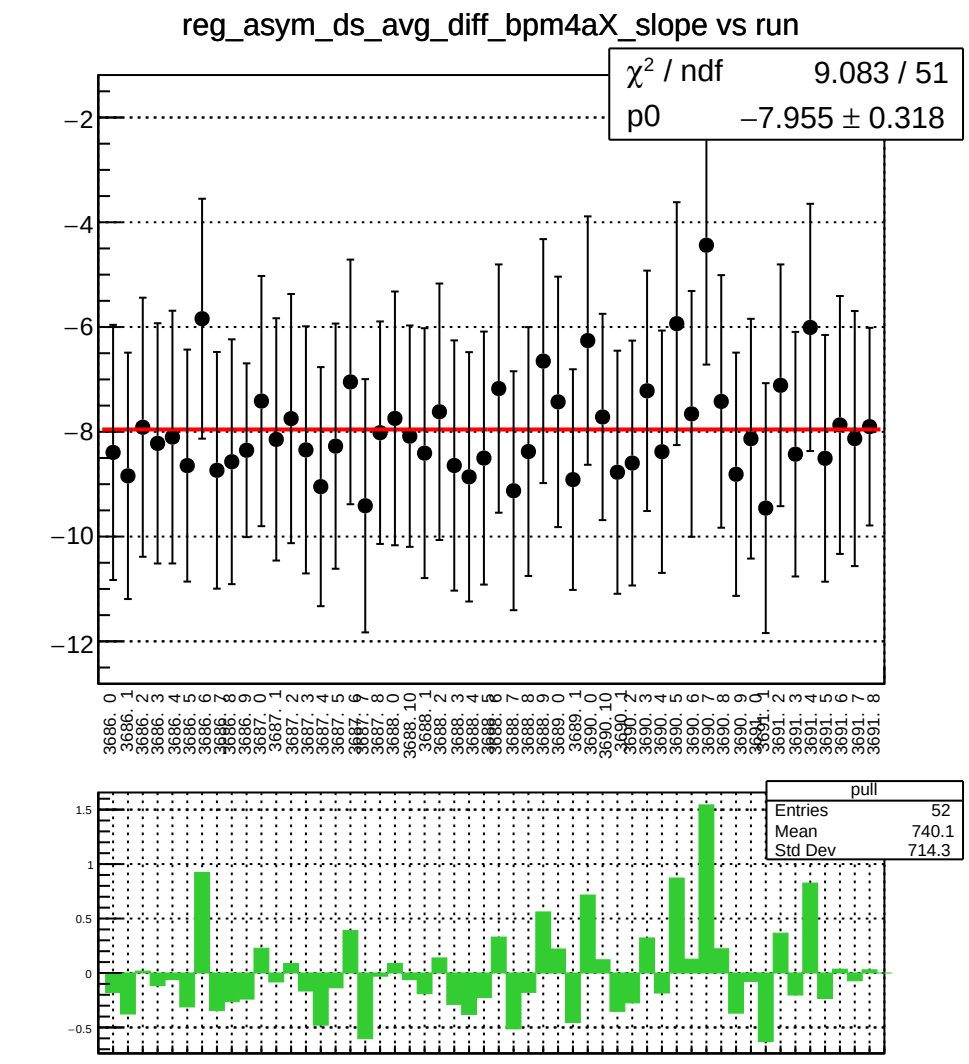

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.342 / 51
p0 −49.99 ± 0.1366
pull
Entries 52
Mean 163
Std Dev 142.1
pull1D
Entries 52
Mean 0.003376
Std Dev 0.3205

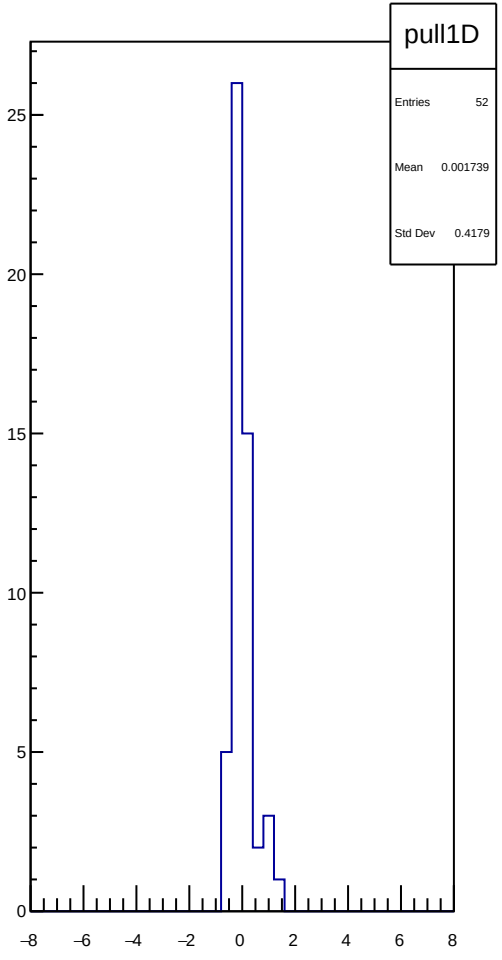

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 1.58 / 51
p0 11.42 ± 0.807
pull
Entries 52
Mean 1.024e+04
Std Dev 1.022e+04

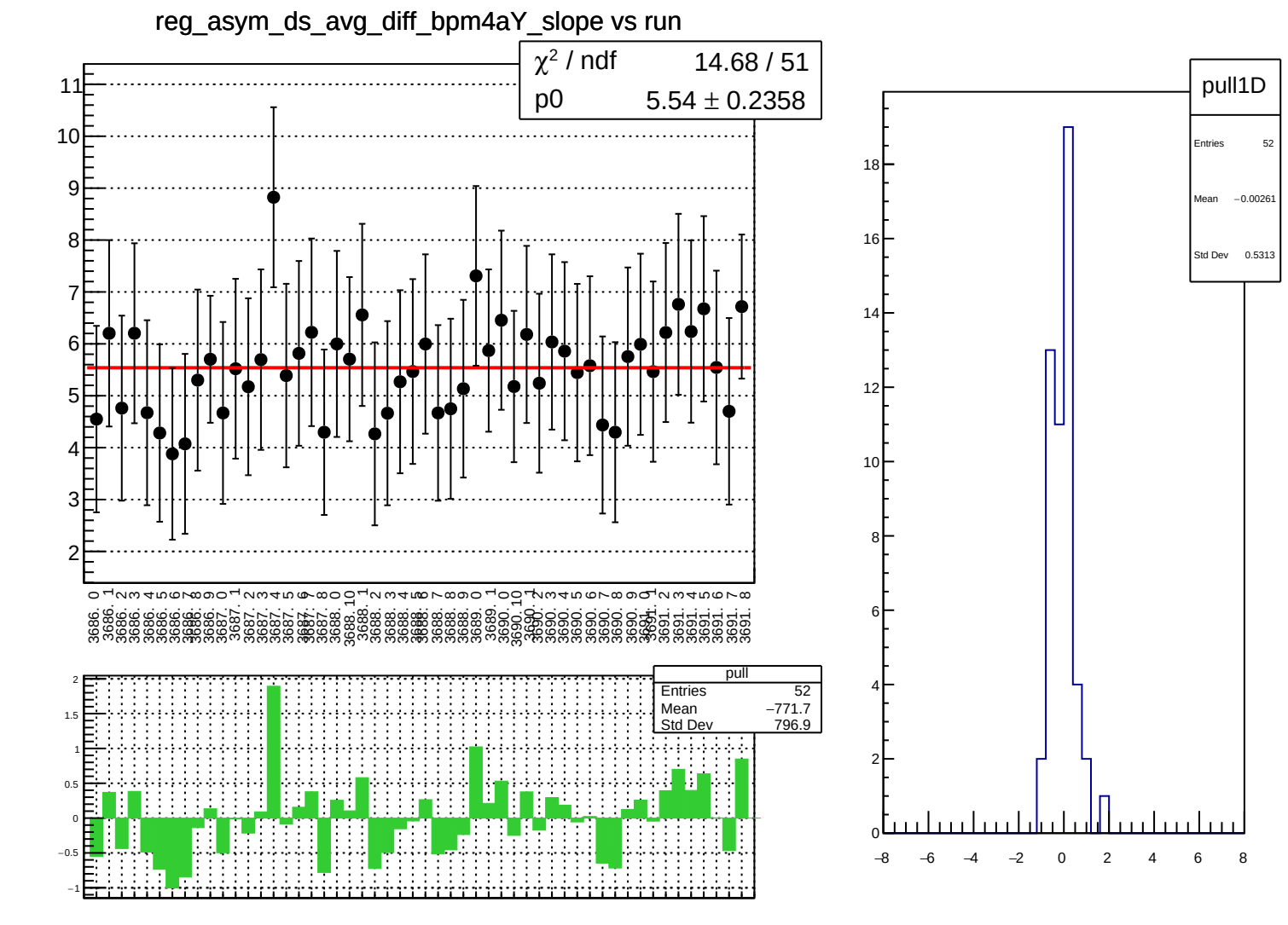

pull1D
Entries 52
Mean 0.0001414
Std Dev 0.1743

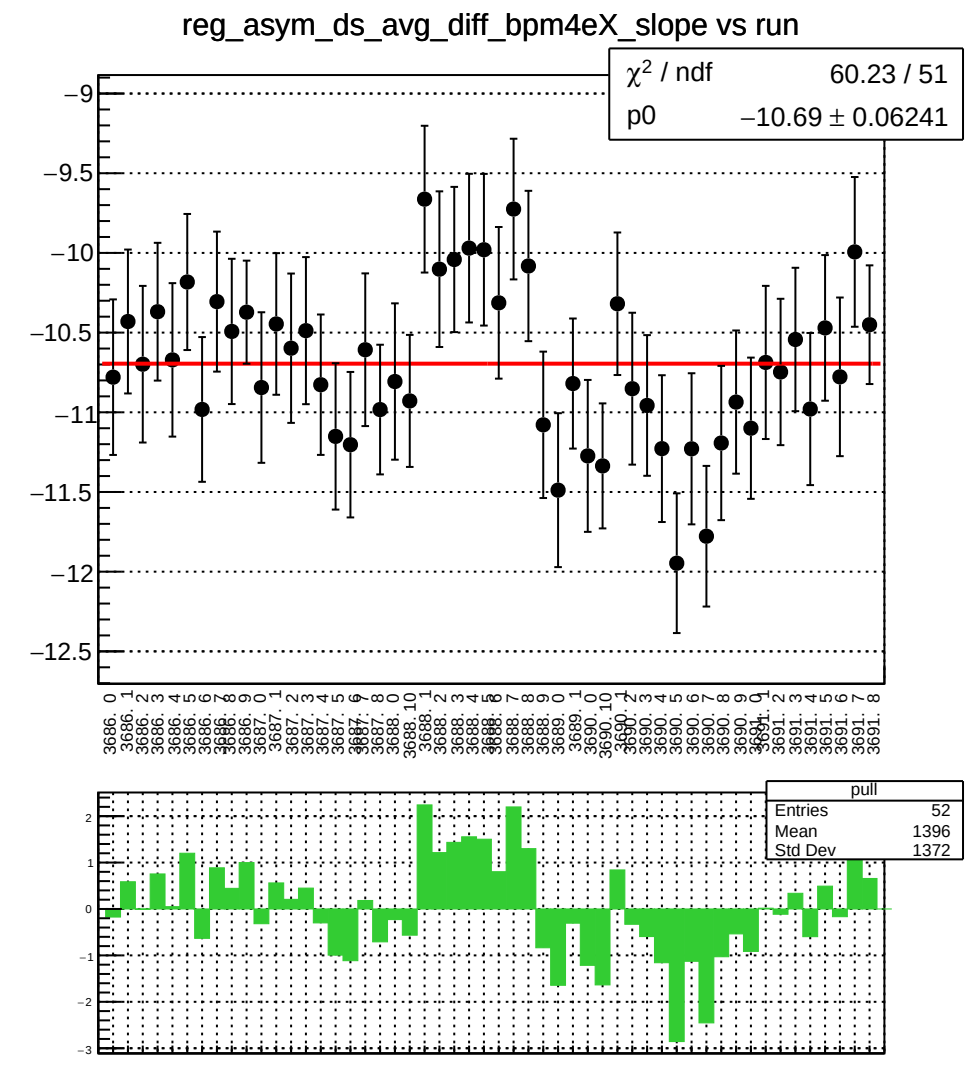

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 1.64 / 51
p0 4.645 ± 0.1746
pull
Entries 52
Mean 284.6
Std Dev 258.8

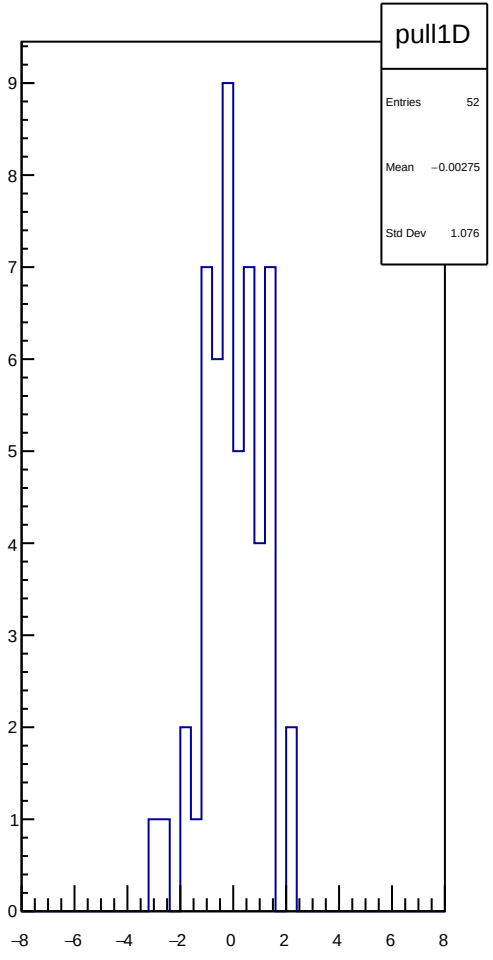

pull1D
Entries 52
Mean −0.0008275
Std Dev 0.1776

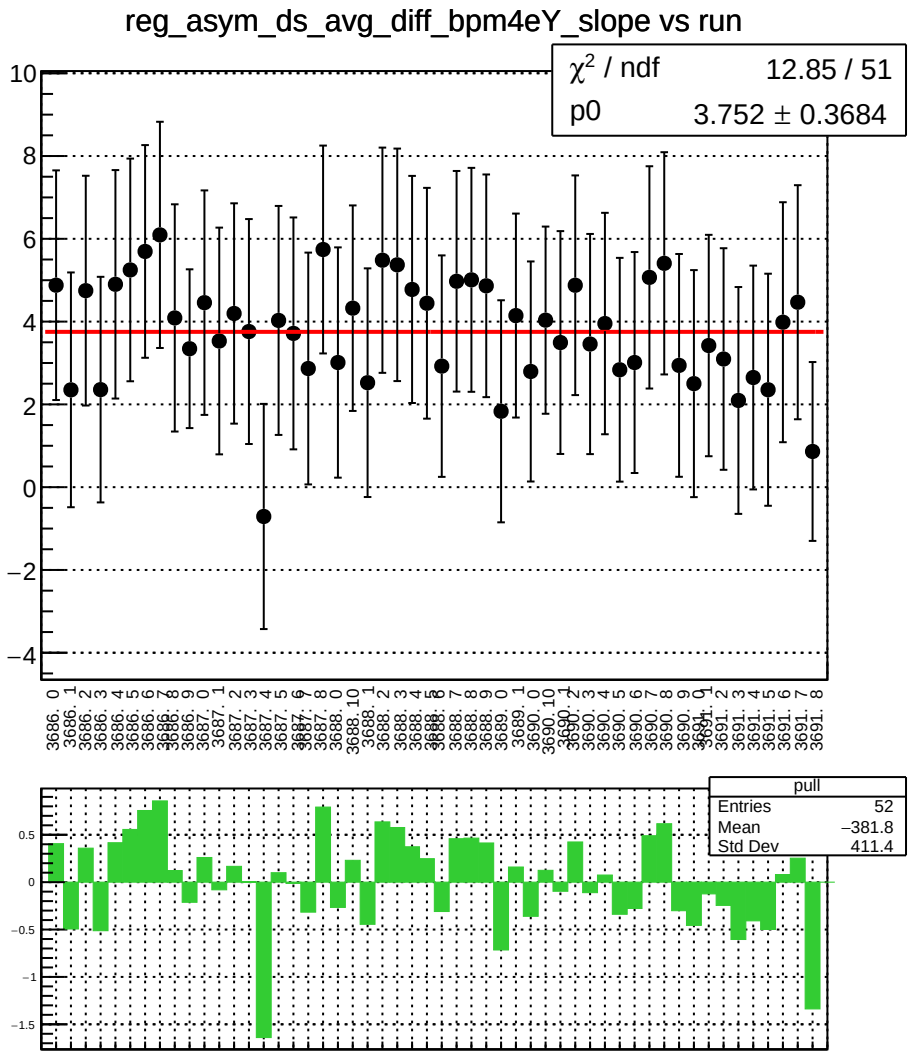

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.083 / 51
p0 −7.955 ± 0.318
pull
Entries 52
Mean 740.1
Std Dev 714.3

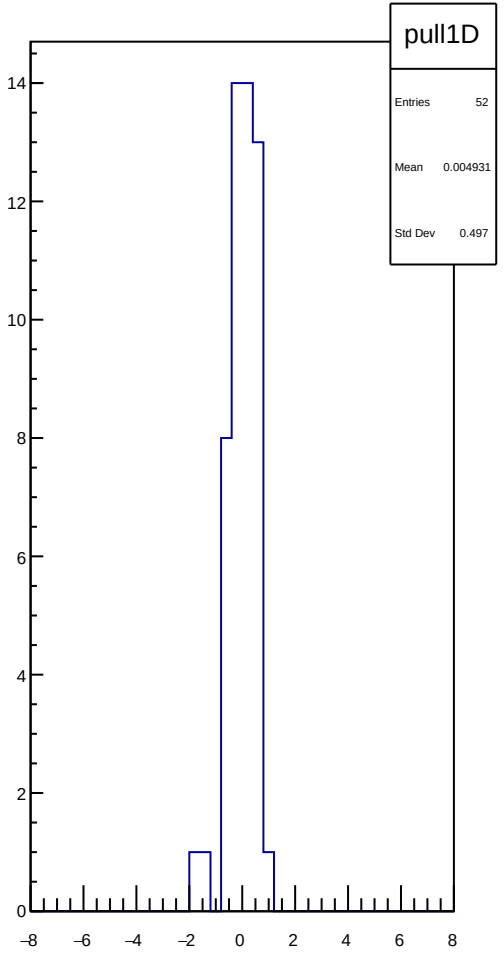

pull1D
Entries 52
Mean 0.001739
Std Dev 0.4179

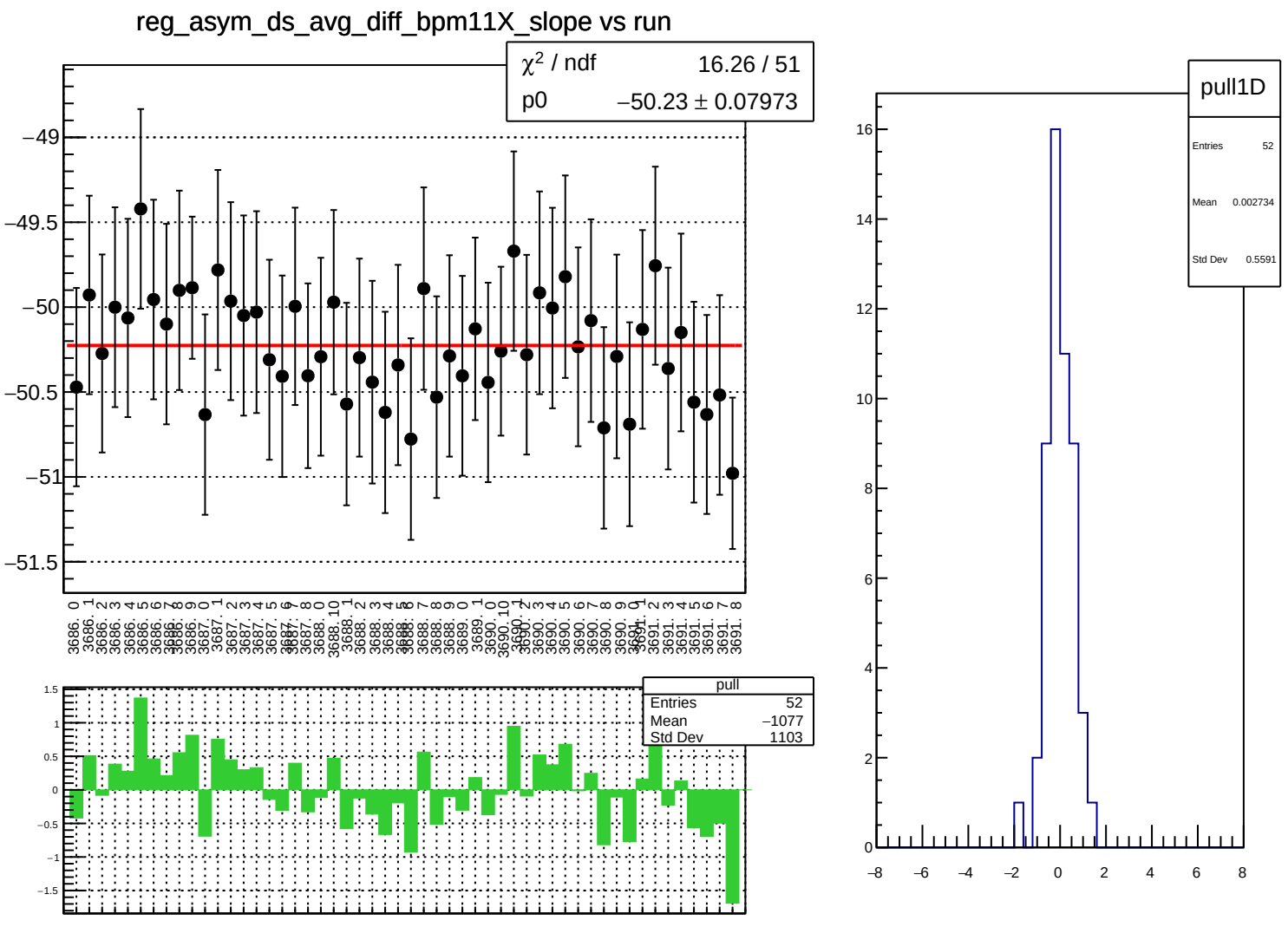

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.68 / 51
p0 5.54 ± 0.2358
pull
Entries 52
Mean −771.7
Std Dev 796.9
pull1D
Entries 52
Mean −0.00261
Std Dev 0.5313

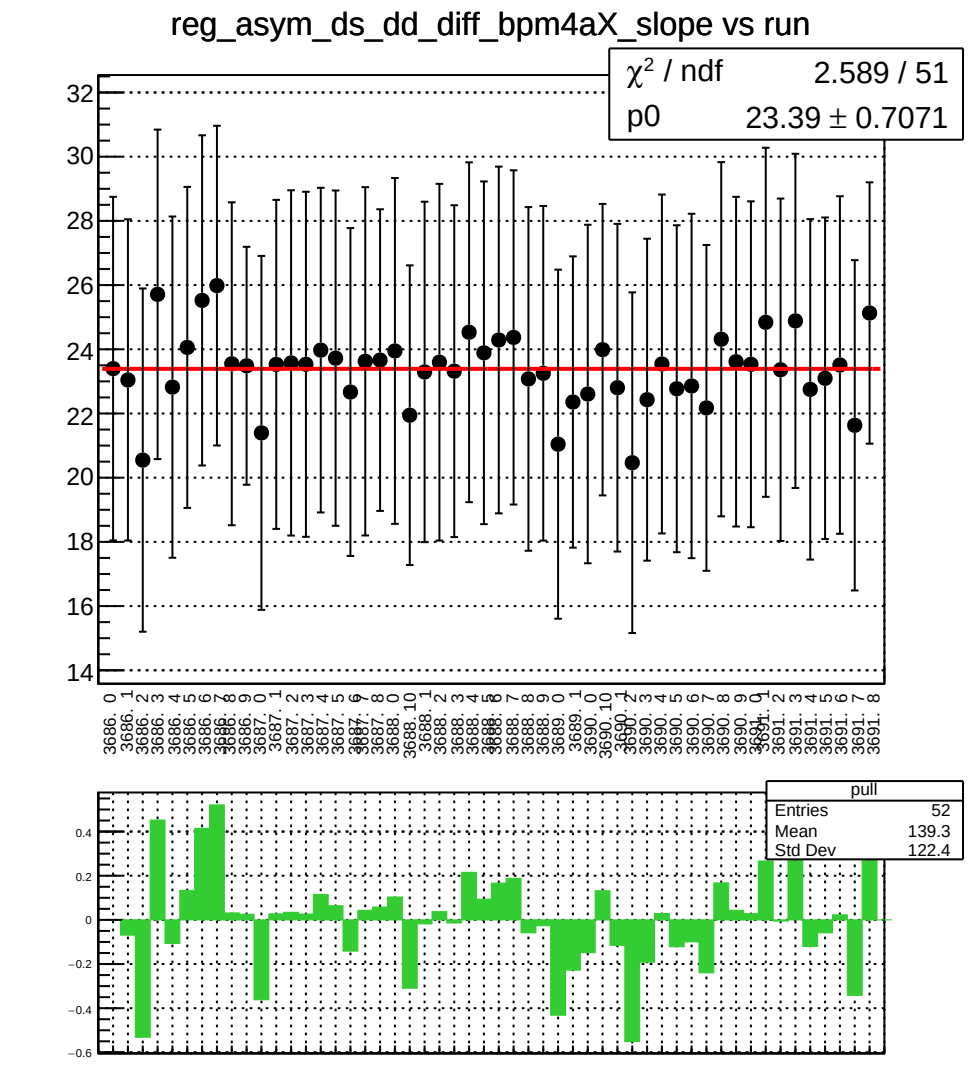

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.23 / 51
p0 −10.69 ± 0.06241
pull
Entries 52
Mean 1396
Std Dev 1372

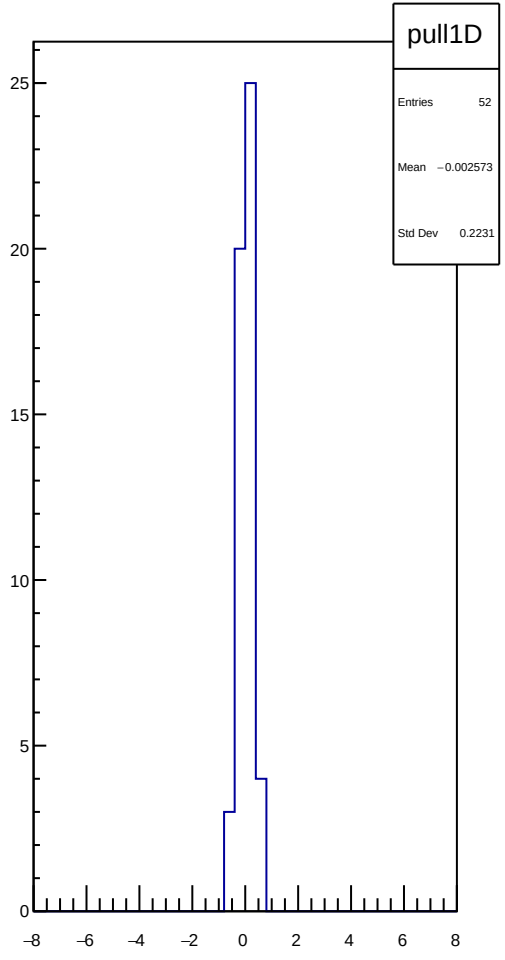

pull1D
Entries 52
Mean −0.00275
Std Dev 1.076

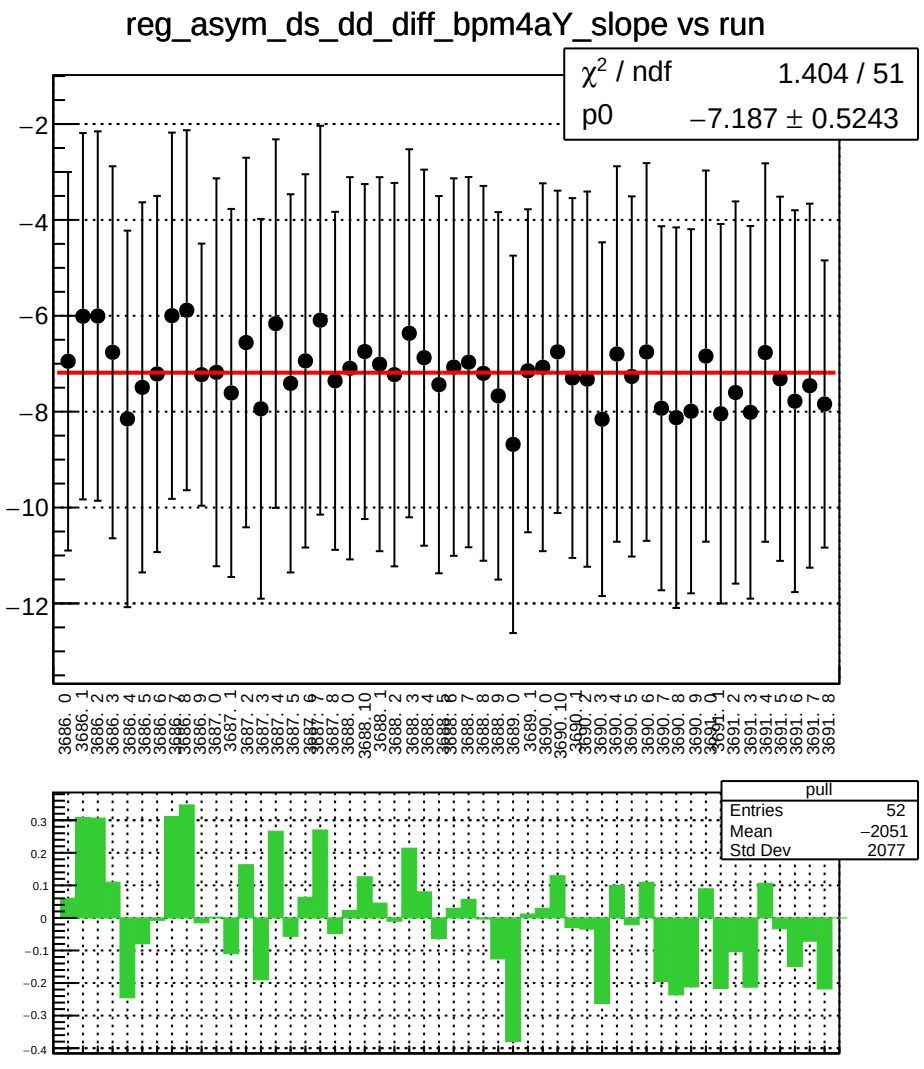

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.85 / 51
p0 3.752 ± 0.3684
pull
Entries 52
Mean −381.8
Std Dev 411.4

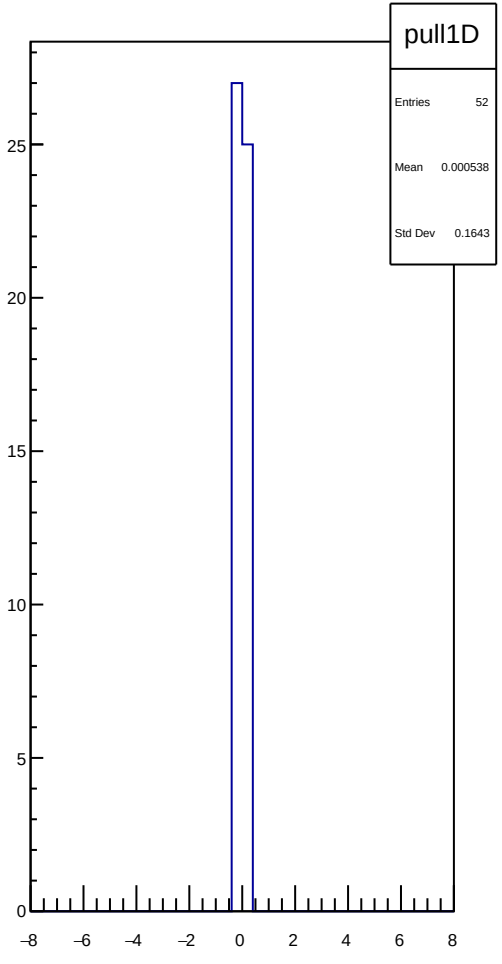

pull1D
Entries 52
Mean 0.004931
Std Dev 0.497

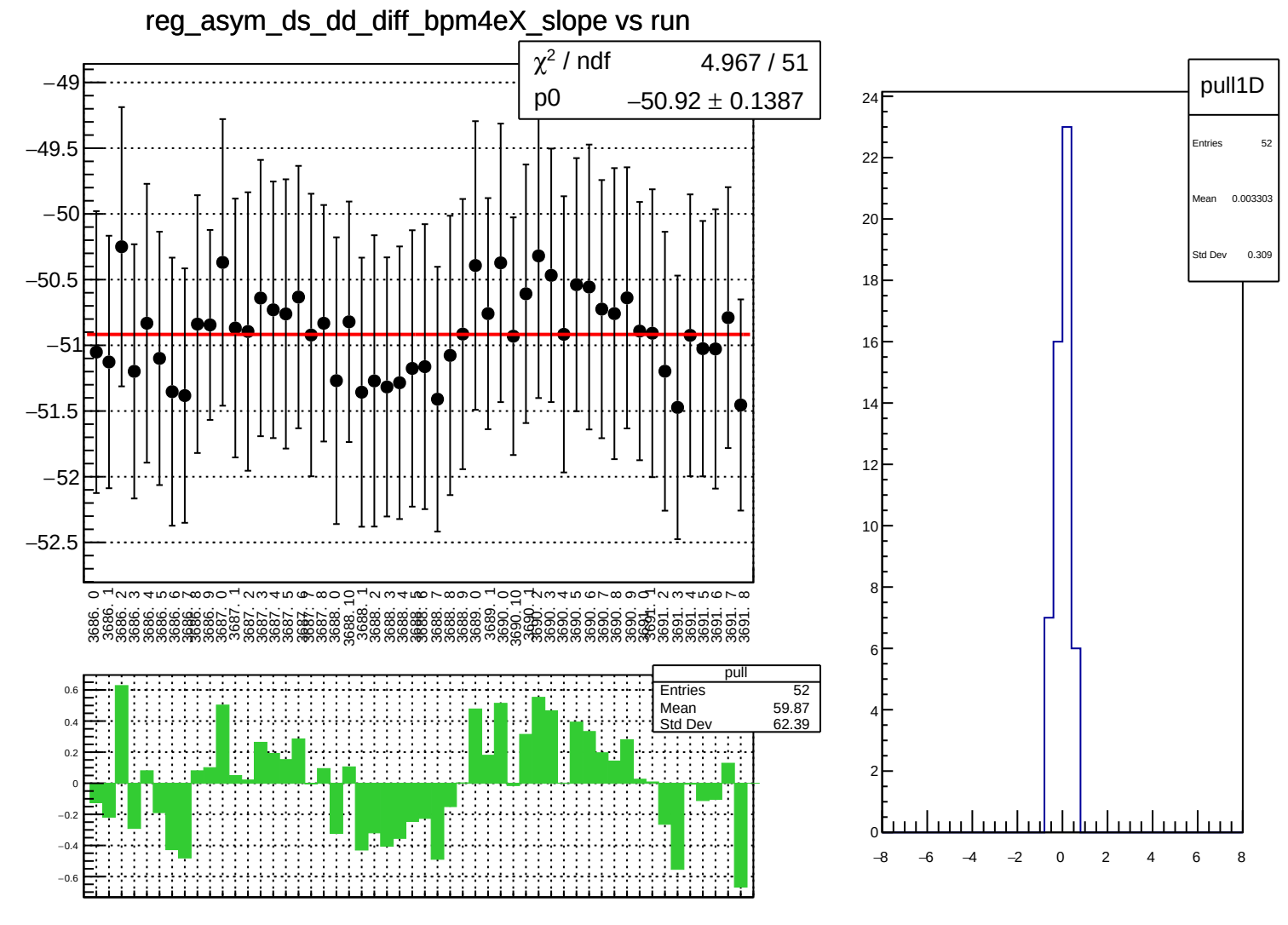

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 16.26 / 51
p0 −50.23 ± 0.07973
−49
−49.5
−50
−50.5
−51
−51.5
pull
Entries 52
Mean −1077
Std Dev 1103
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 52
Mean 0.002734
Std Dev 0.5591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

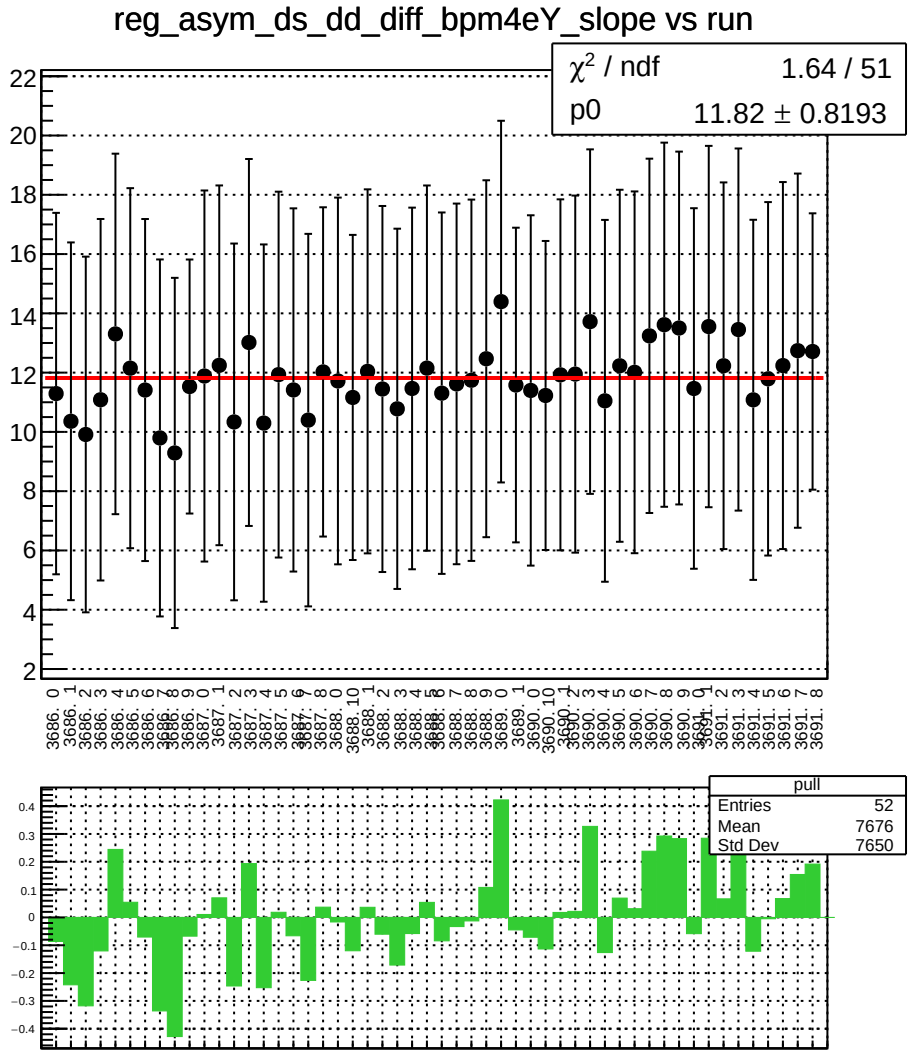

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.589 / 51
p0 23.39 ± 0.7071
pull
Entries 52
Mean 139.3
Std Dev 122.4

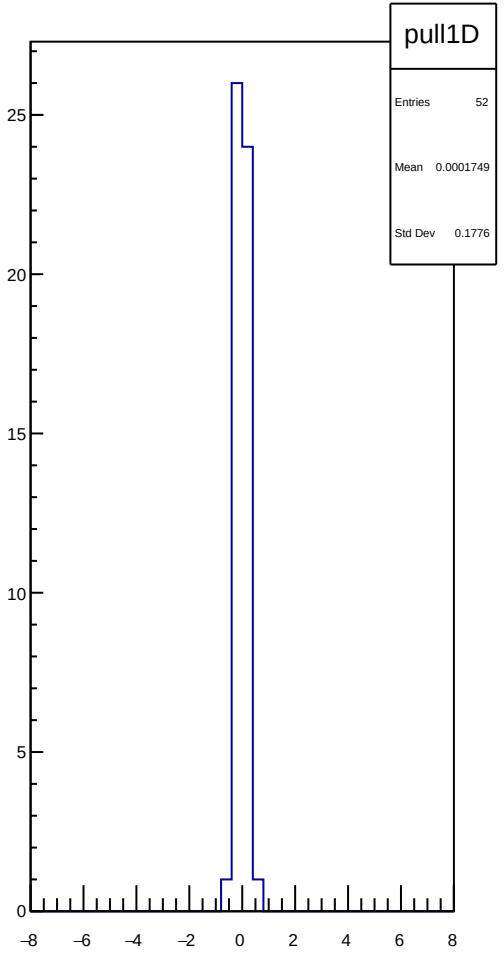

pull1D
Entries 52
Mean −0.002573
Std Dev 0.2231

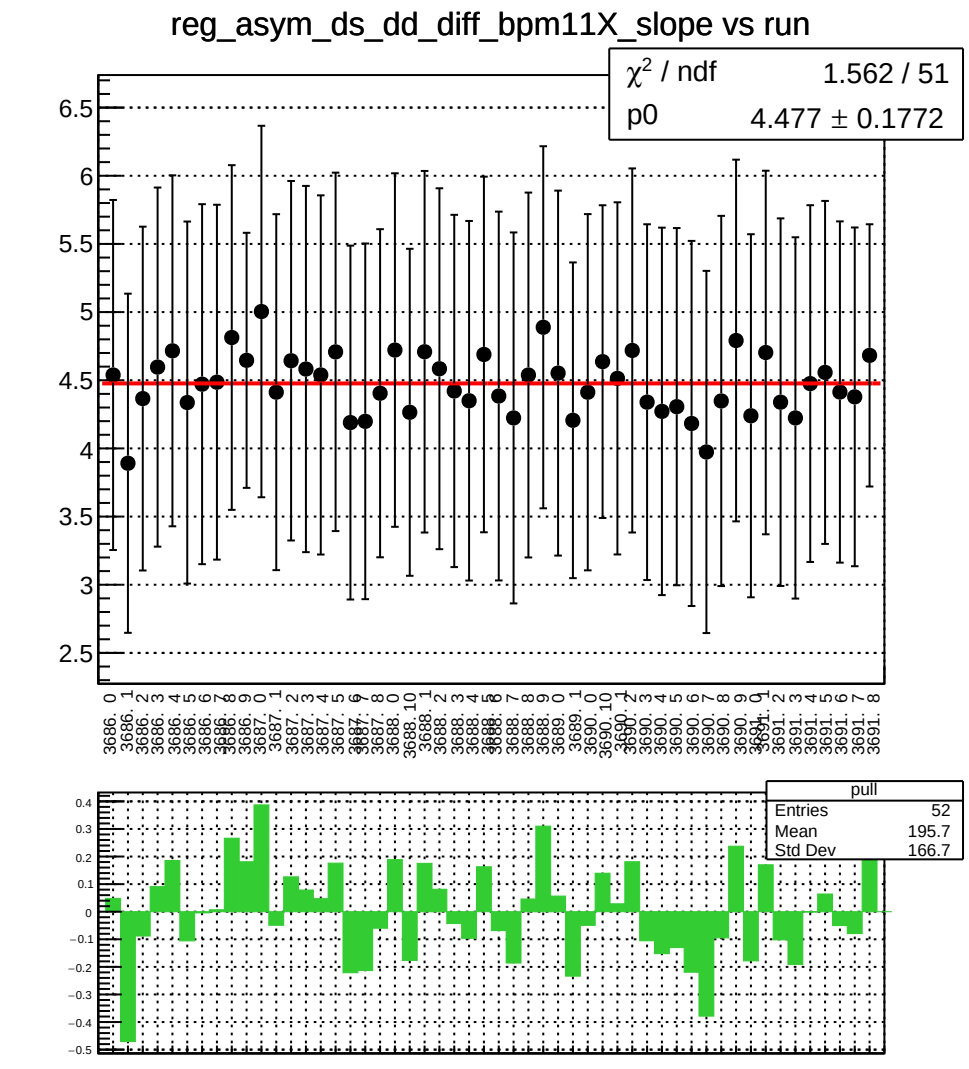

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.404 / 51
p0 −7.187 ± 0.5243
pull
Entries 52
Mean −2051
Std Dev 2077

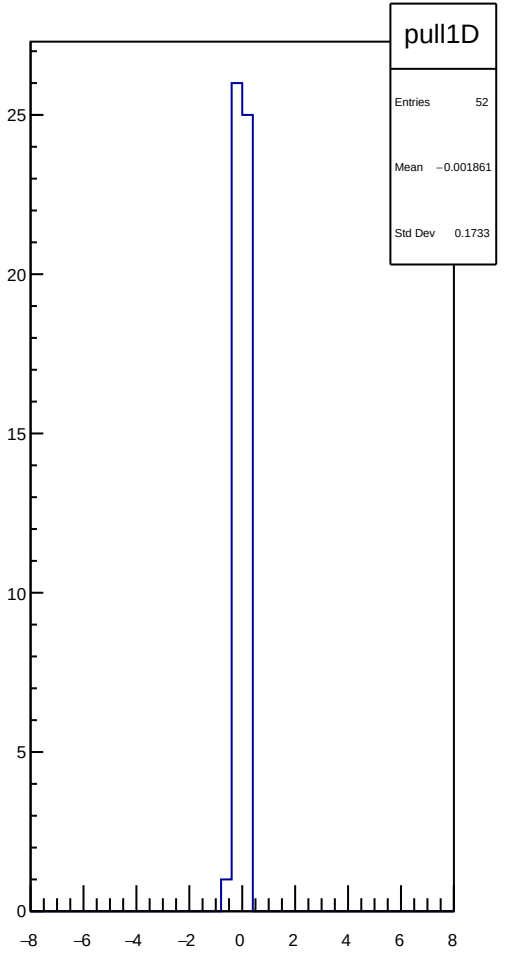

pull1D
Entries 52
Mean 0.000538
Std Dev 0.1643

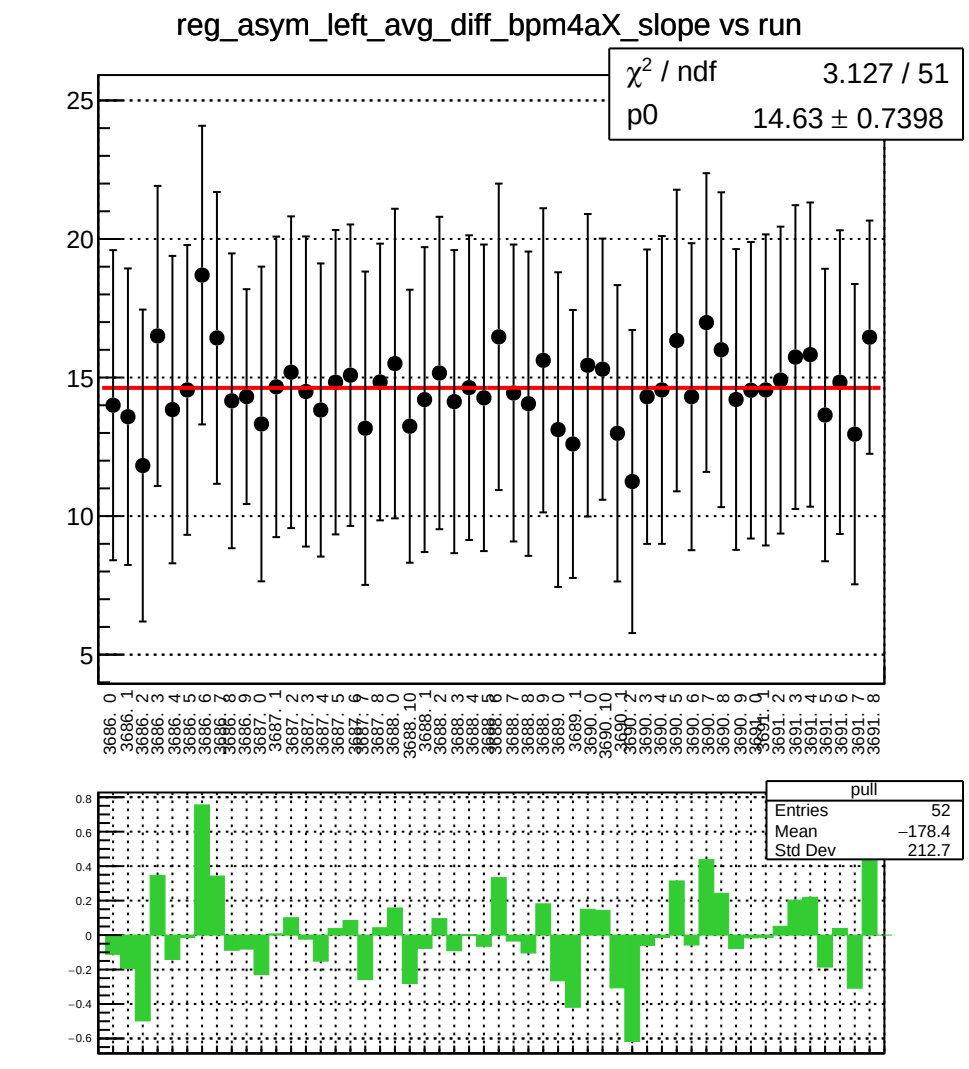

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.967 / 51
p0 −50.92 ± 0.1387
pull
Entries 52
Mean 59.87
Std Dev 62.39
pull1D
Entries 52
Mean 0.003303
Std Dev 0.309

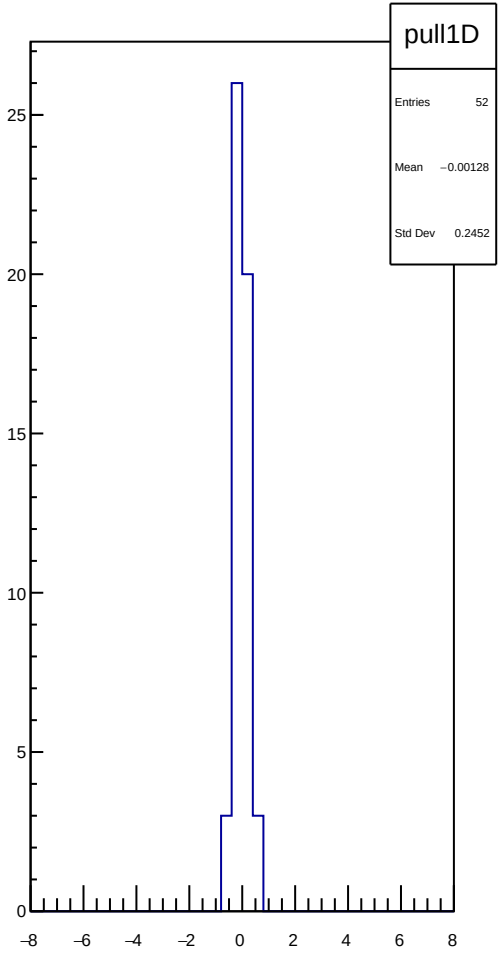

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.64 / 51
p0 11.82 ± 0.8193
pull
Entries 52
Mean 7676
Std Dev 7650

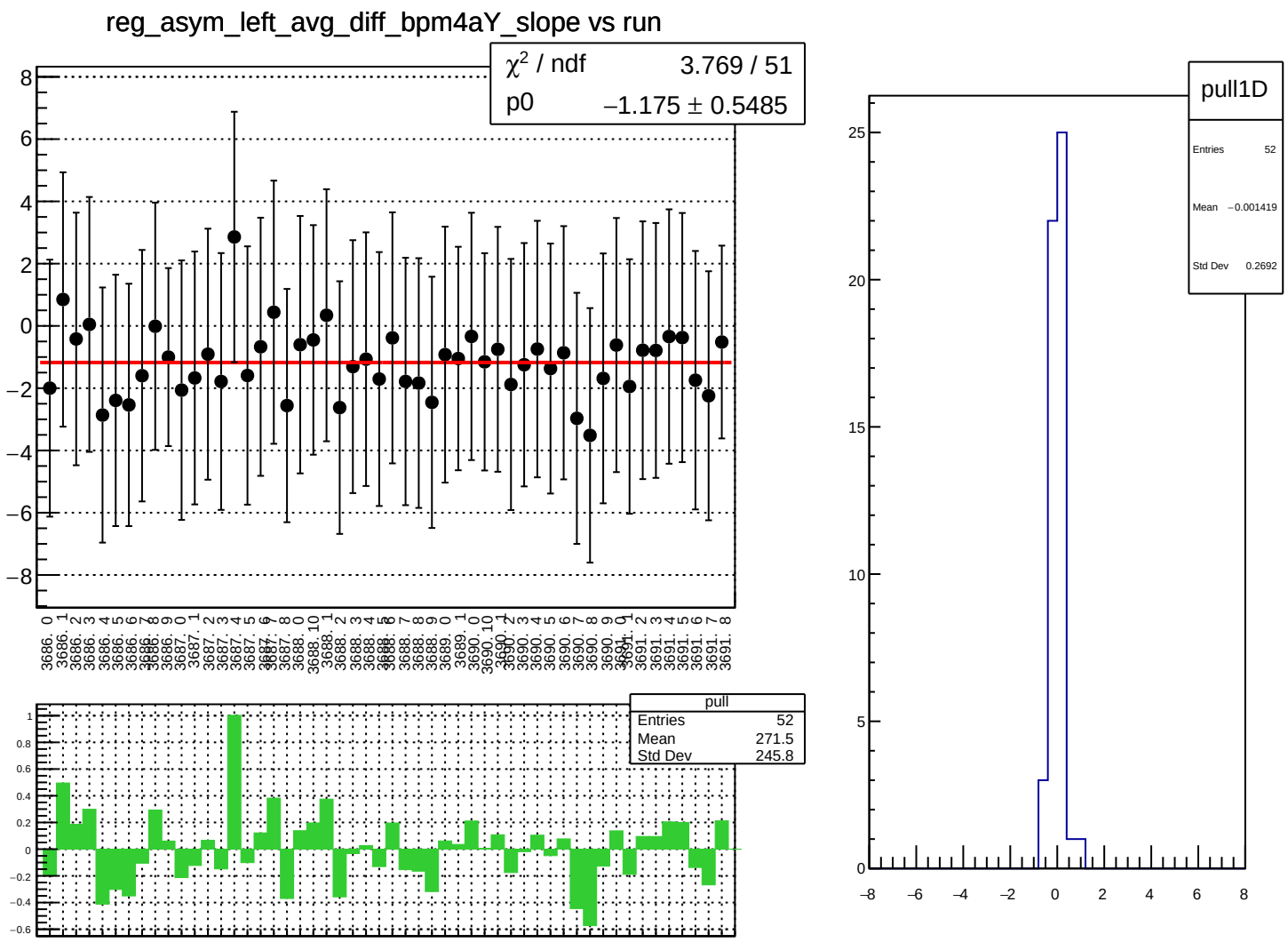

pull1D
Entries 52
Mean 0.0001749
Std Dev 0.1776

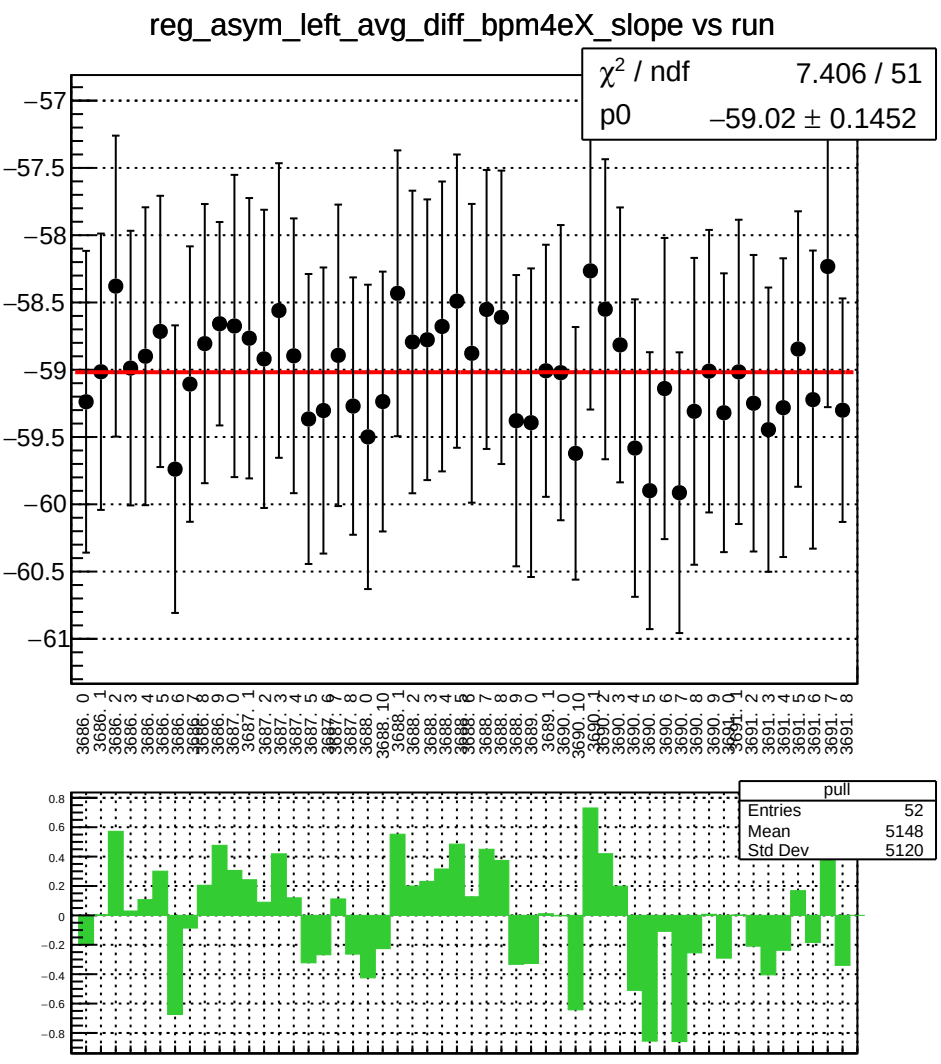

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 1.562 / 51
p0 4.477 ± 0.1772
pull
Entries 52
Mean 195.7
Std Dev 166.7

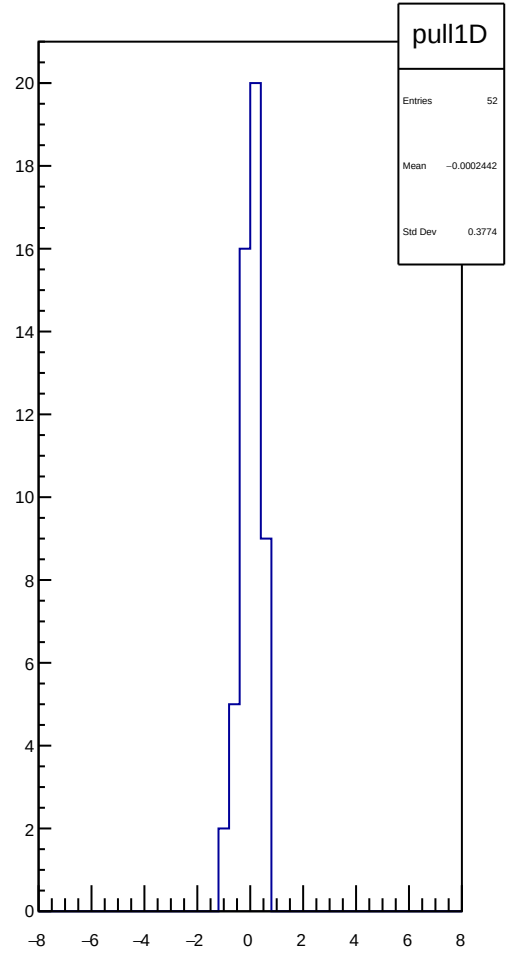

pull1D
Entries 52
Mean −0.001861
Std Dev 0.1733

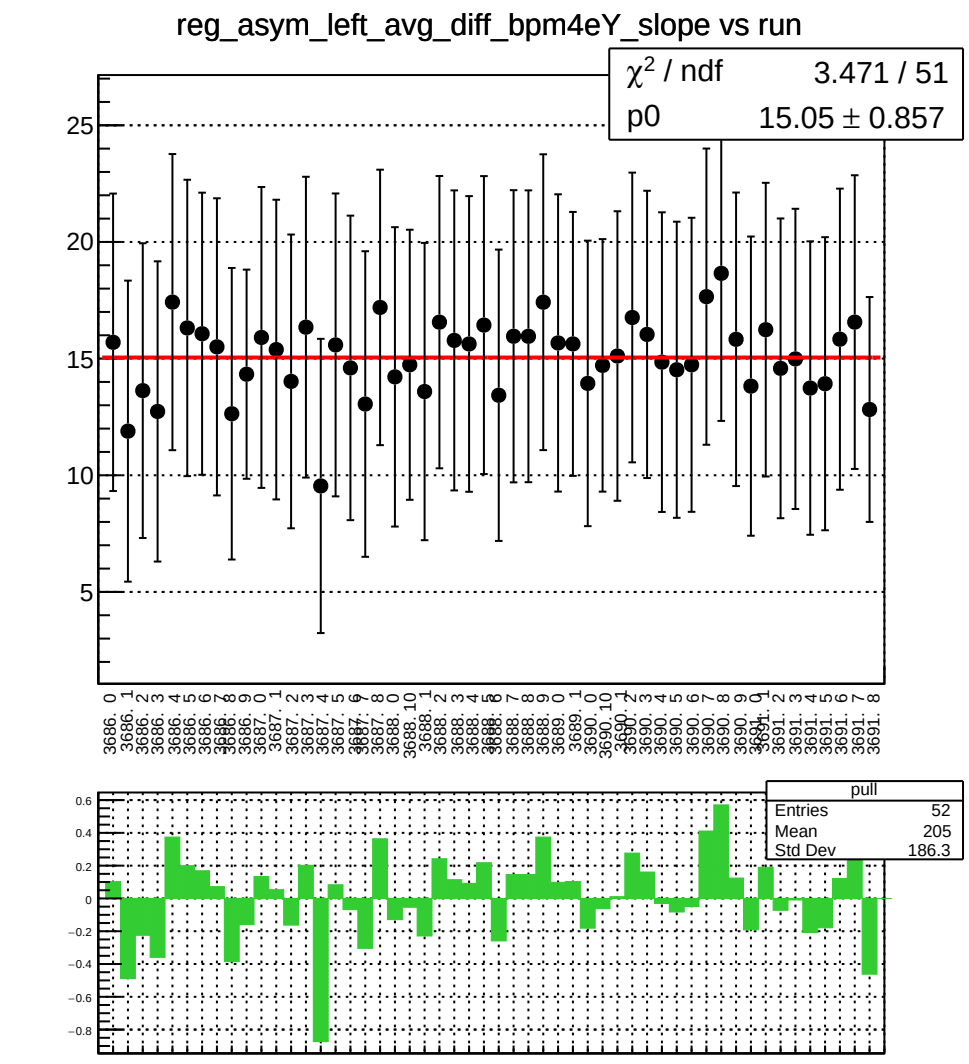

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.127 / 51
p0 14.63 ± 0.7398
pull
Entries 52
Mean −178.4
Std Dev 212.7

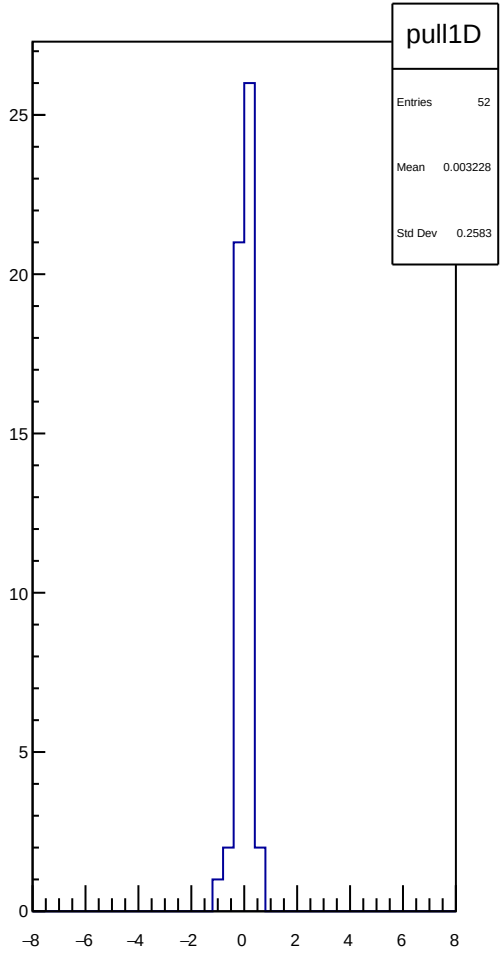

pull1D
Entries 52
Mean −0.00128
Std Dev 0.2452

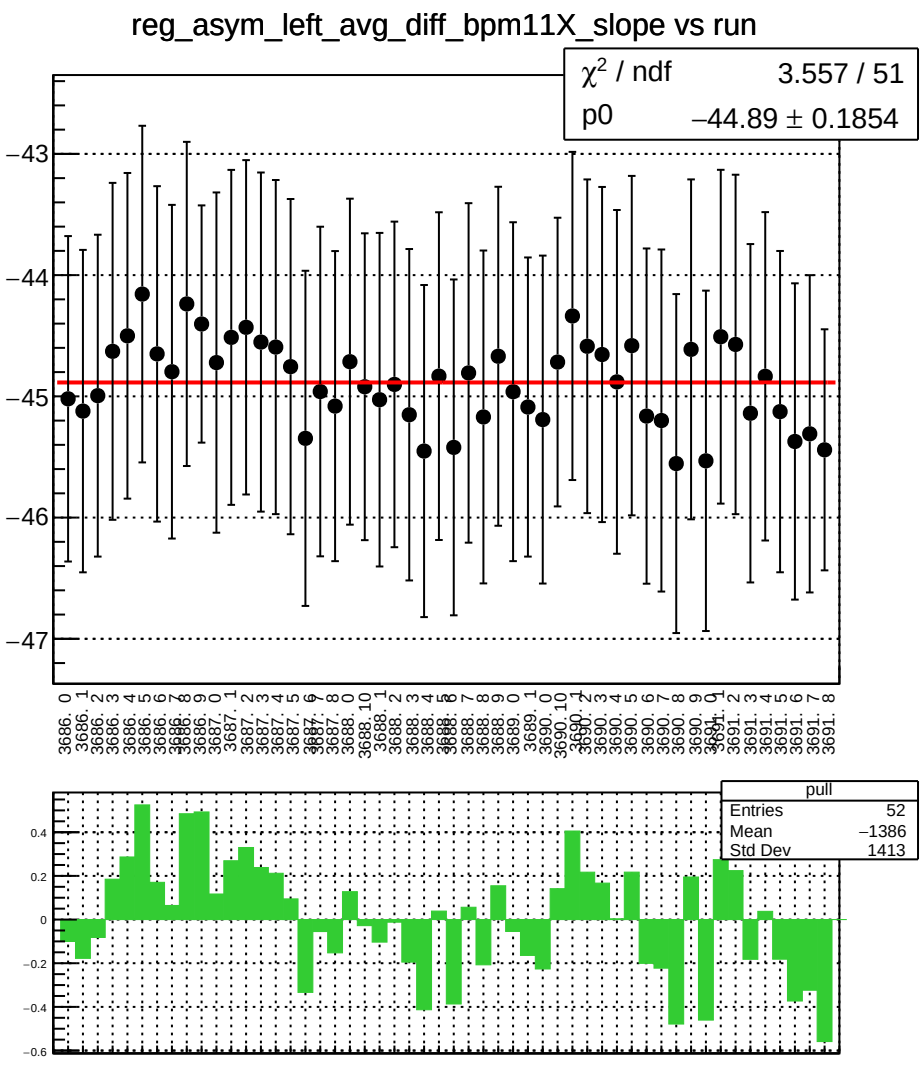

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.769 / 51
p0 −1.175 ± 0.5485
pull
Entries 52
Mean 271.5
Std Dev 245.8
pull1D
Entries 52
Mean −0.001419
Std Dev 0.2692

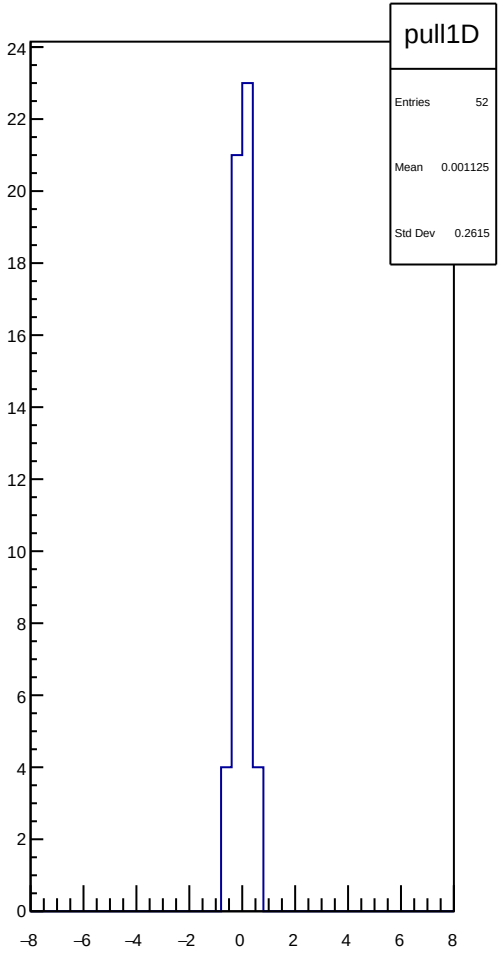

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.406 / 51
p0 −59.02 ± 0.1452
pull
Entries 52
Mean 5148
Std Dev 5120

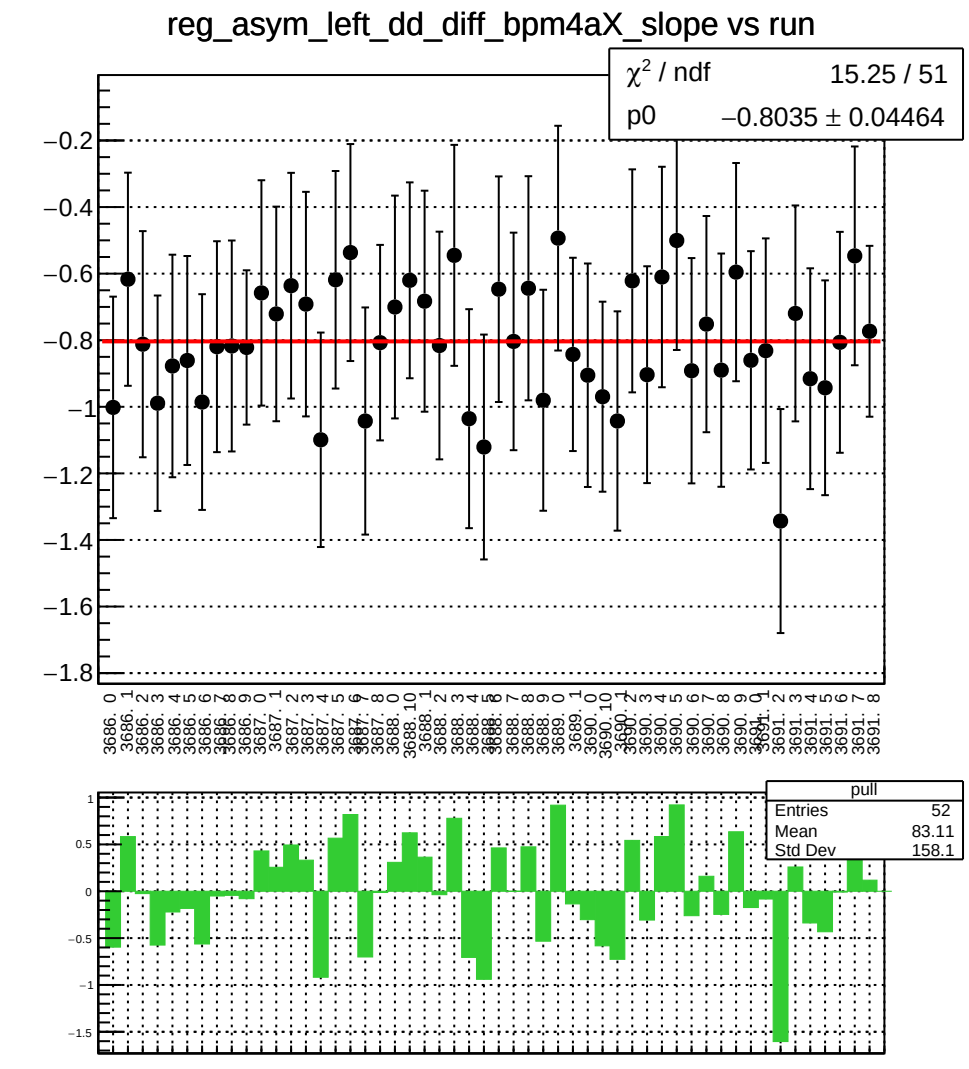

pull1D
Entries 52
Mean −0.0002442
Std Dev 0.3774

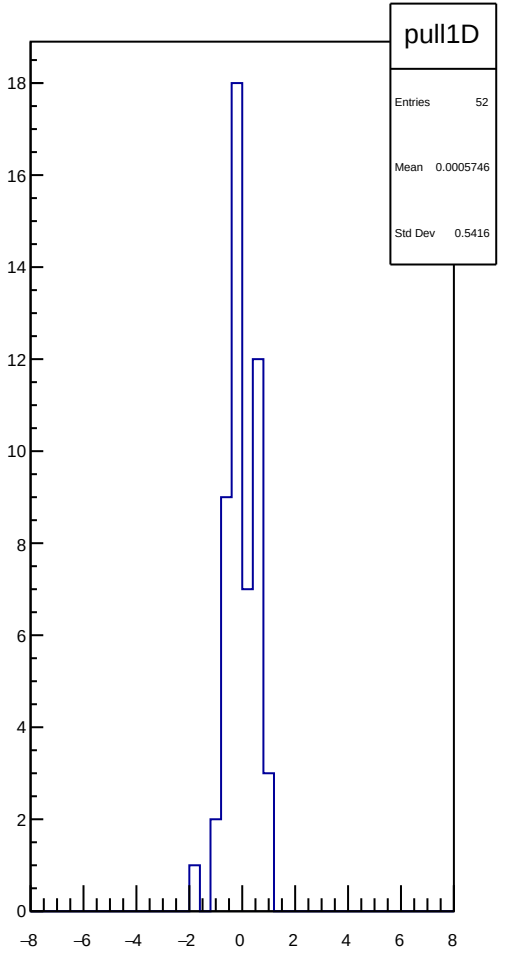

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.471 / 51
p0 15.05 ± 0.857
pull
Entries 52
Mean 205
Std Dev 186.3

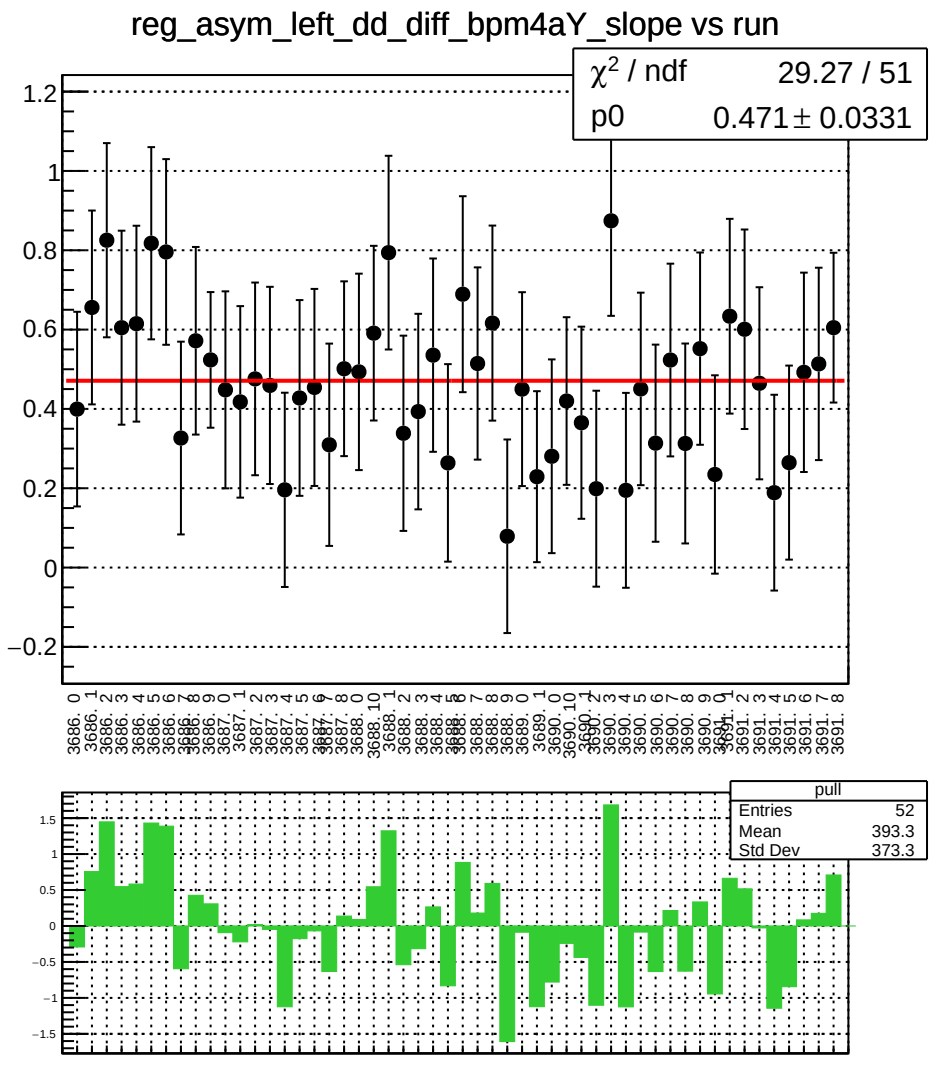

pull1D
Entries 52
Mean 0.003228
Std Dev 0.2583

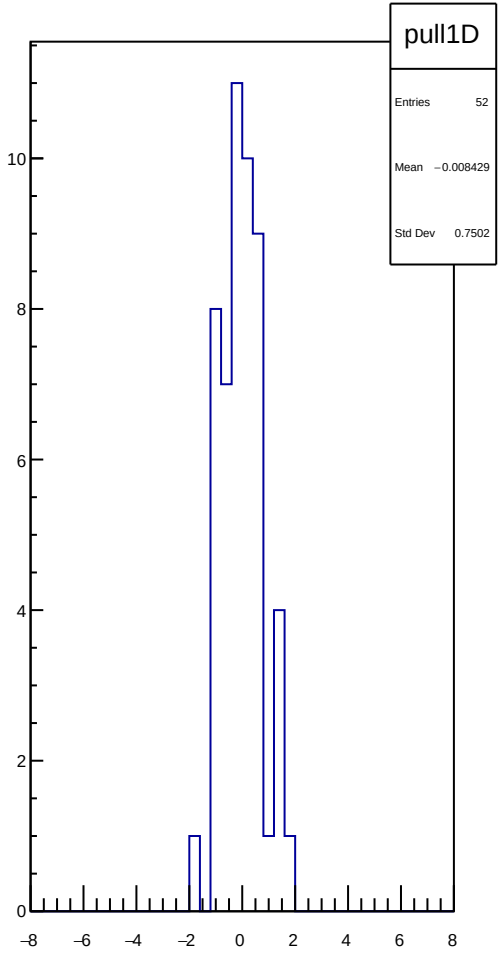

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 3.557 / 51
p0 −44.89 ± 0.1854
pull
Entries 52
Mean −1386
Std Dev 1413

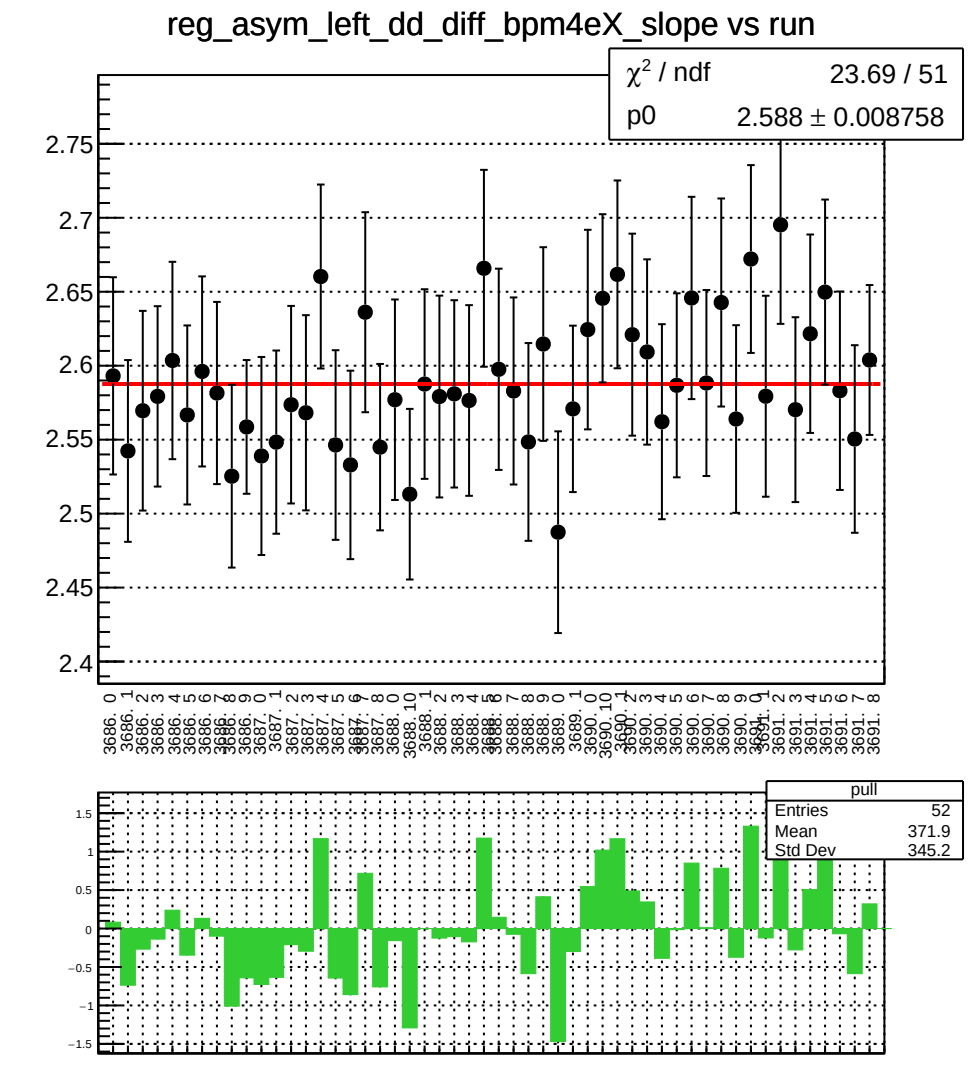

pull1D
Entries 52
Mean 0.001125
Std Dev 0.2615

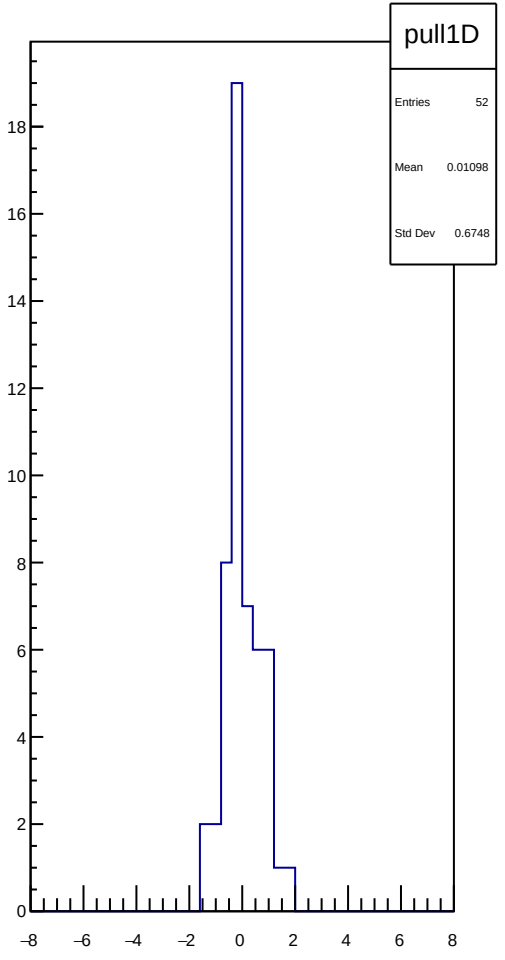

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 15.25 / 51
p0 −0.8035 ± 0.04464
pull
Entries 52
Mean 83.11
Std Dev 158.1

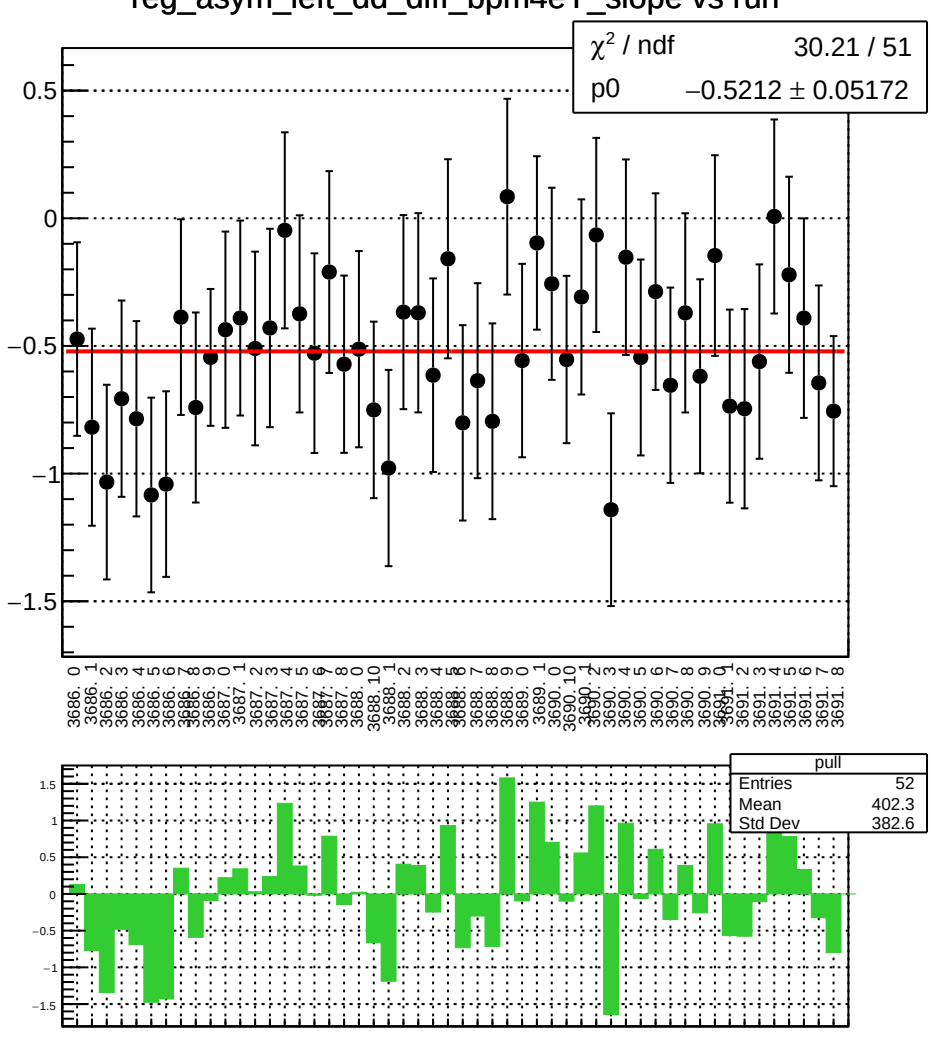

pull1D
Entries 52
Mean 0.0005746
Std Dev 0.5416

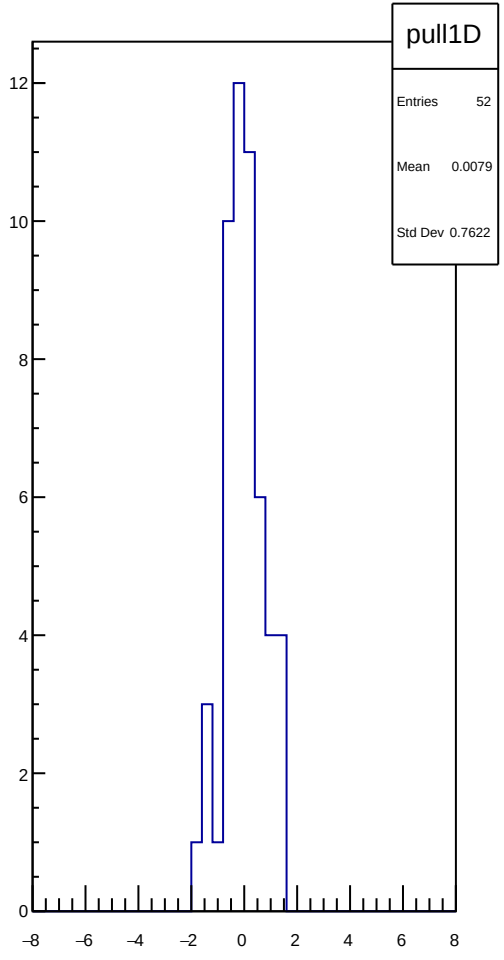

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.27 / 51
p0 0.471 ± 0.0331
pull
Entries 52
Mean 393.3
Std Dev 373.3

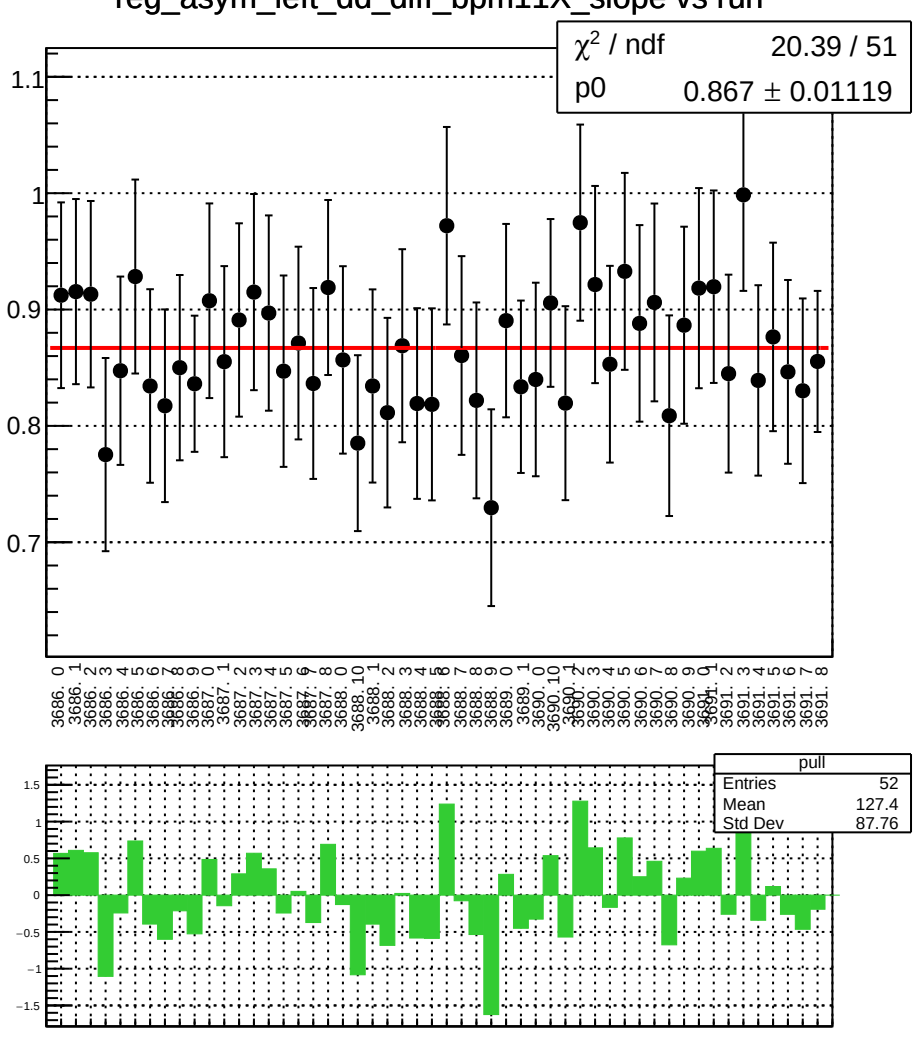

pull1D
Entries 52
Mean −0.008429
Std Dev 0.7502

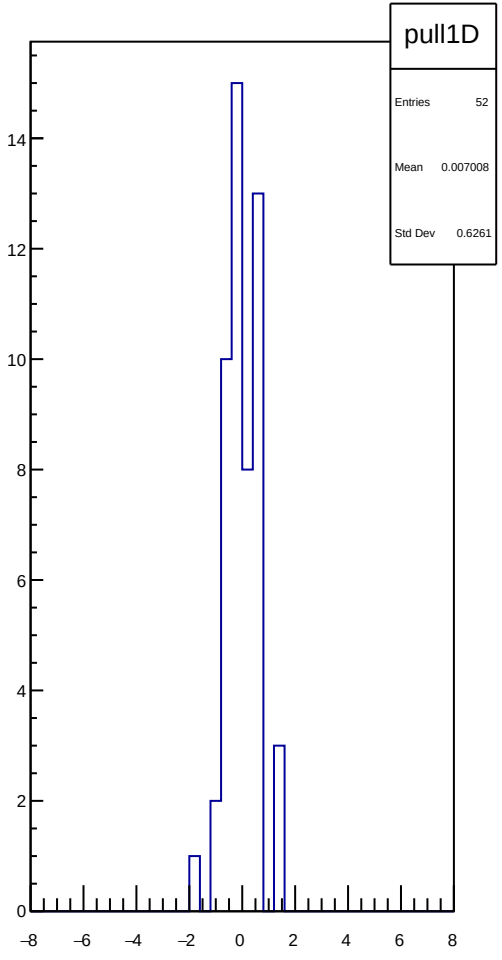

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.69 / 51
p0 2.588 ± 0.008758
pull
Entries 52
Mean 371.9
Std Dev 345.2

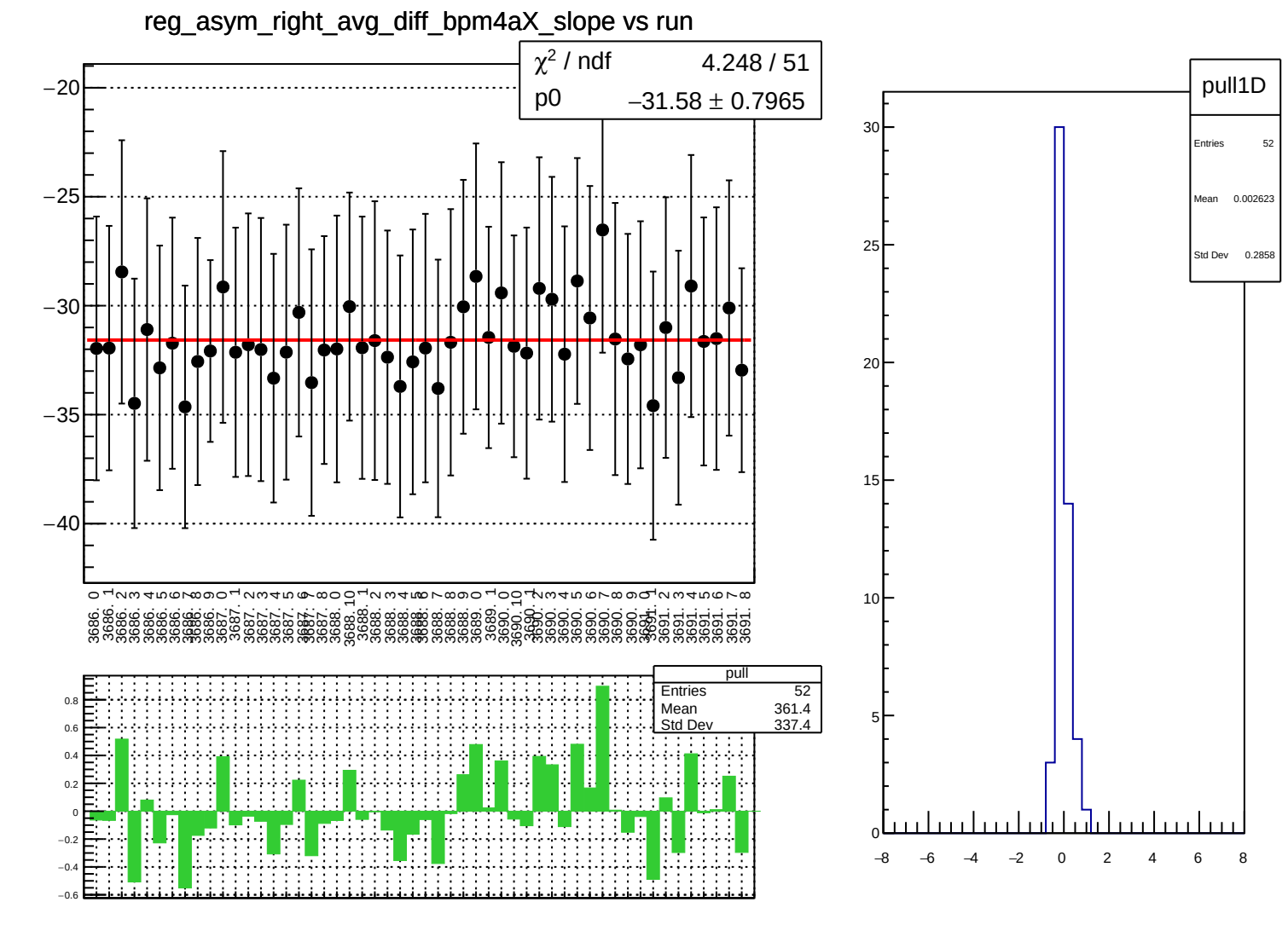

pull1D
Entries 52
Mean 0.01098
Std Dev 0.6748

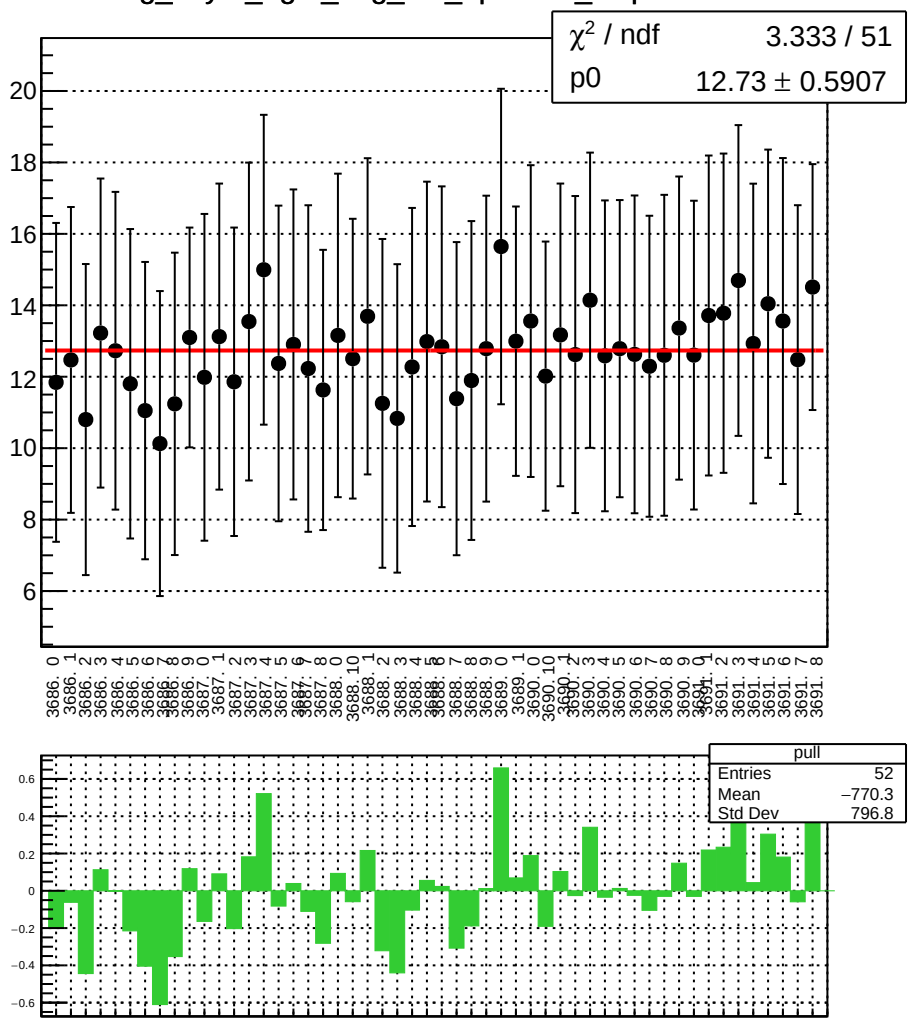

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.21 / 51
p0 −0.5212 ± 0.05172
pull
Entries 52
Mean 402.3
Std Dev 382.6

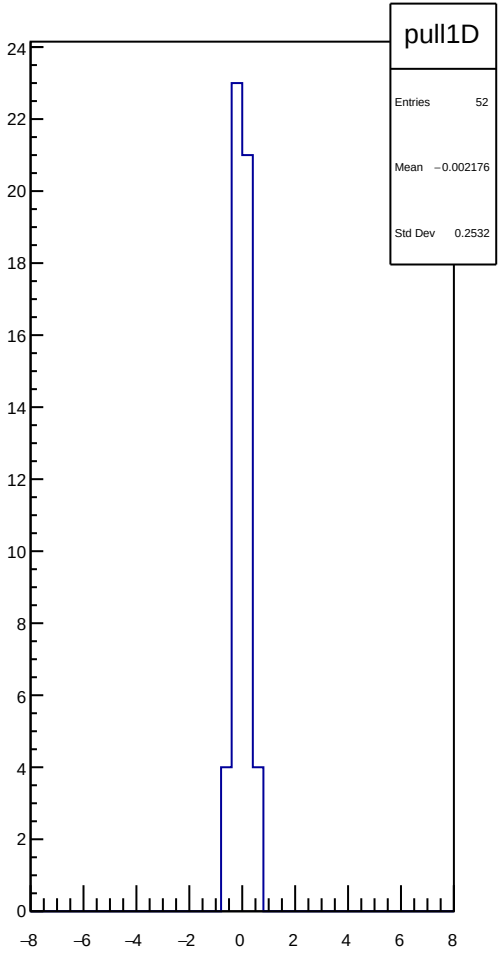

pull1D
Entries 52
Mean 0.0079
Std Dev 0.7622

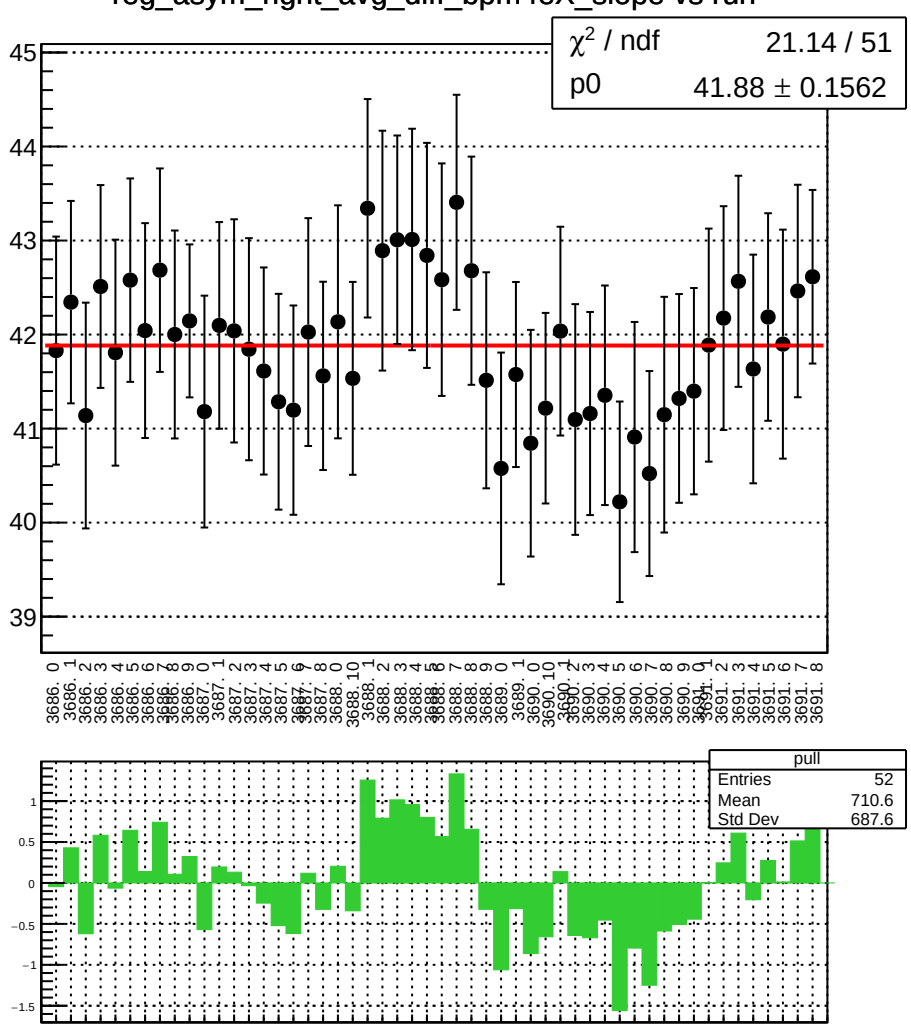

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 20.39 / 51
p0 0.867 ± 0.01119
pull
Entries 52
Mean 127.4
Std Dev 87.76

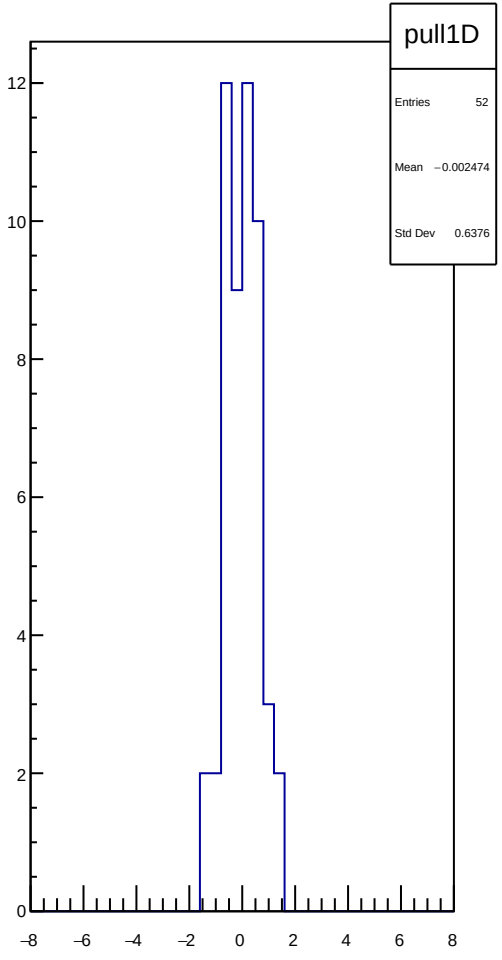

pull1D
Entries 52
Mean 0.007008
Std Dev 0.6261

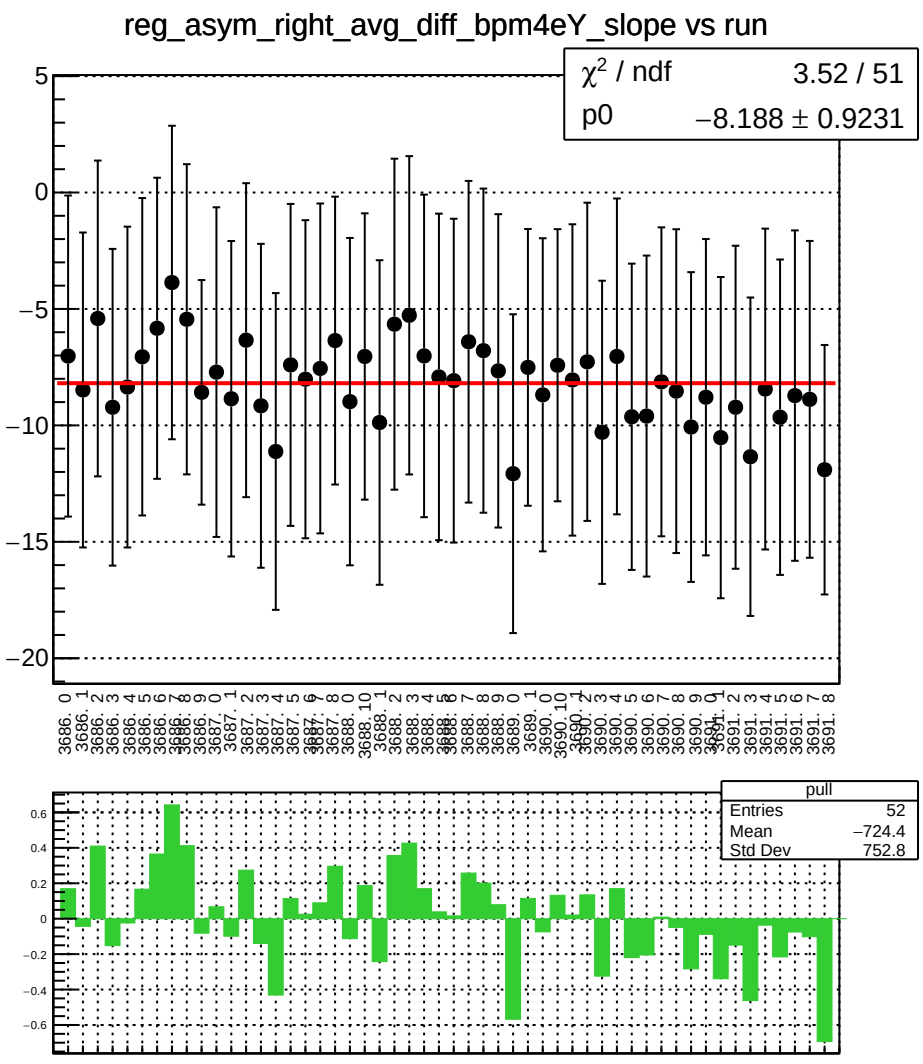

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.248 / 51
p0 −31.58 ± 0.7965
pull
Entries 52
Mean 361.4
Std Dev 337.4
pull1D
Entries 52
Mean 0.002623
Std Dev 0.2858

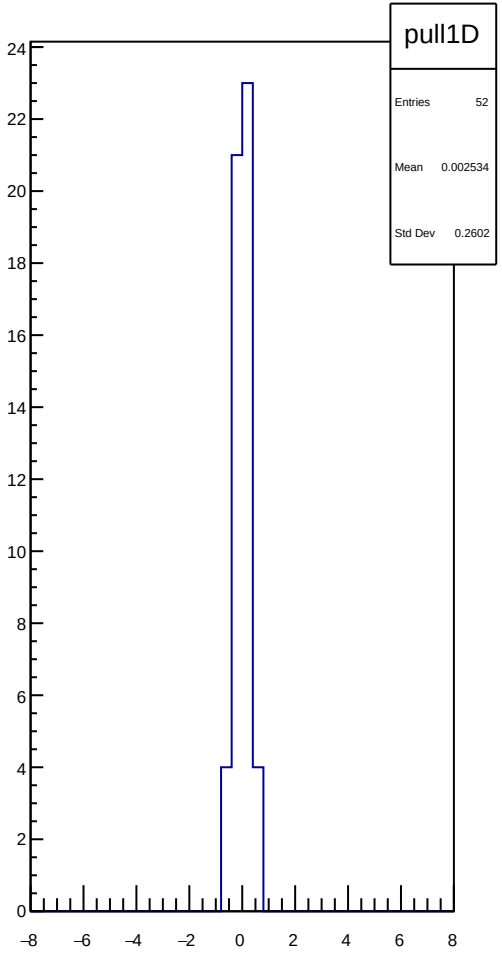

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.333 / 51
p0 12.73 ± 0.5907
pull
Entries 52
Mean −770.3
Std Dev 796.8

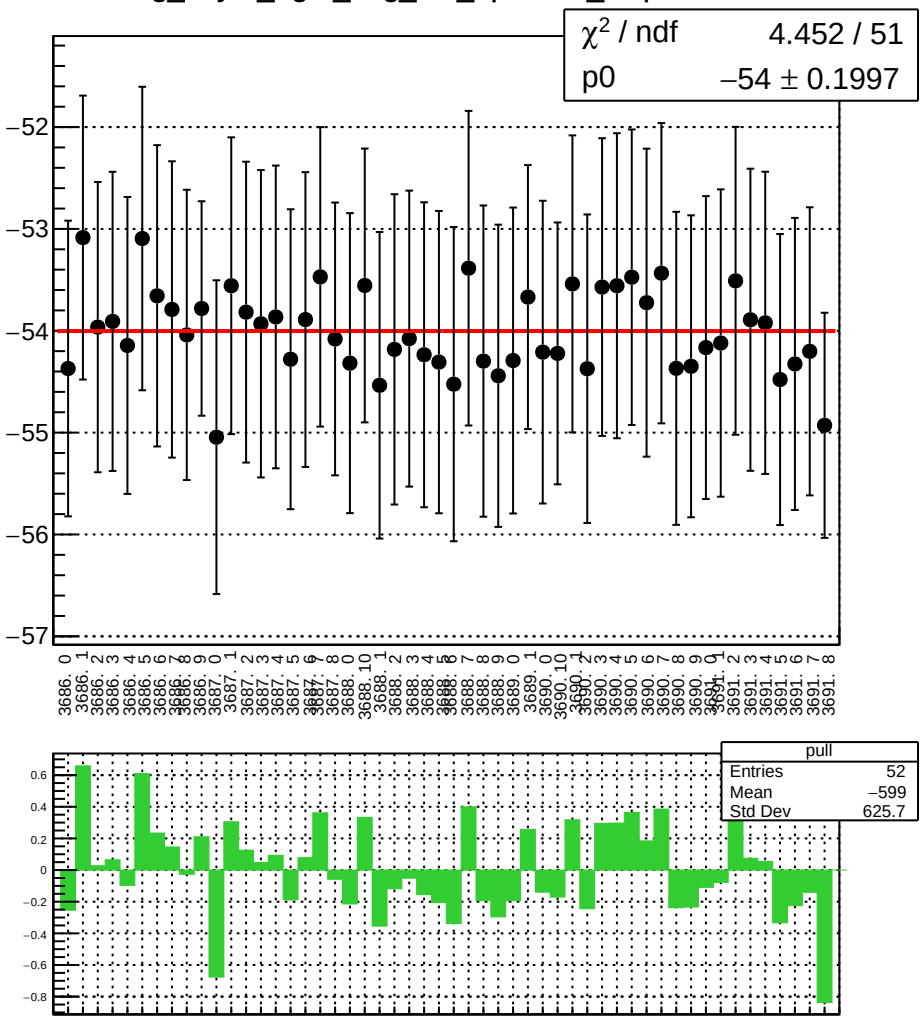

pull1D
Entries 52
Mean −0.002176
Std Dev 0.2532

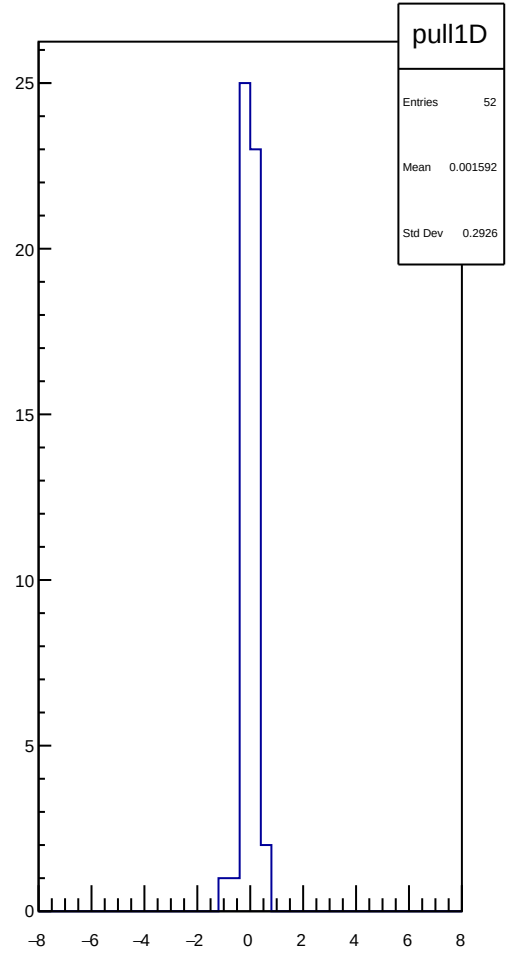

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.14 / 51
p0 41.88 ± 0.1562
pull
Entries 52
Mean 710.6
Std Dev 687.6

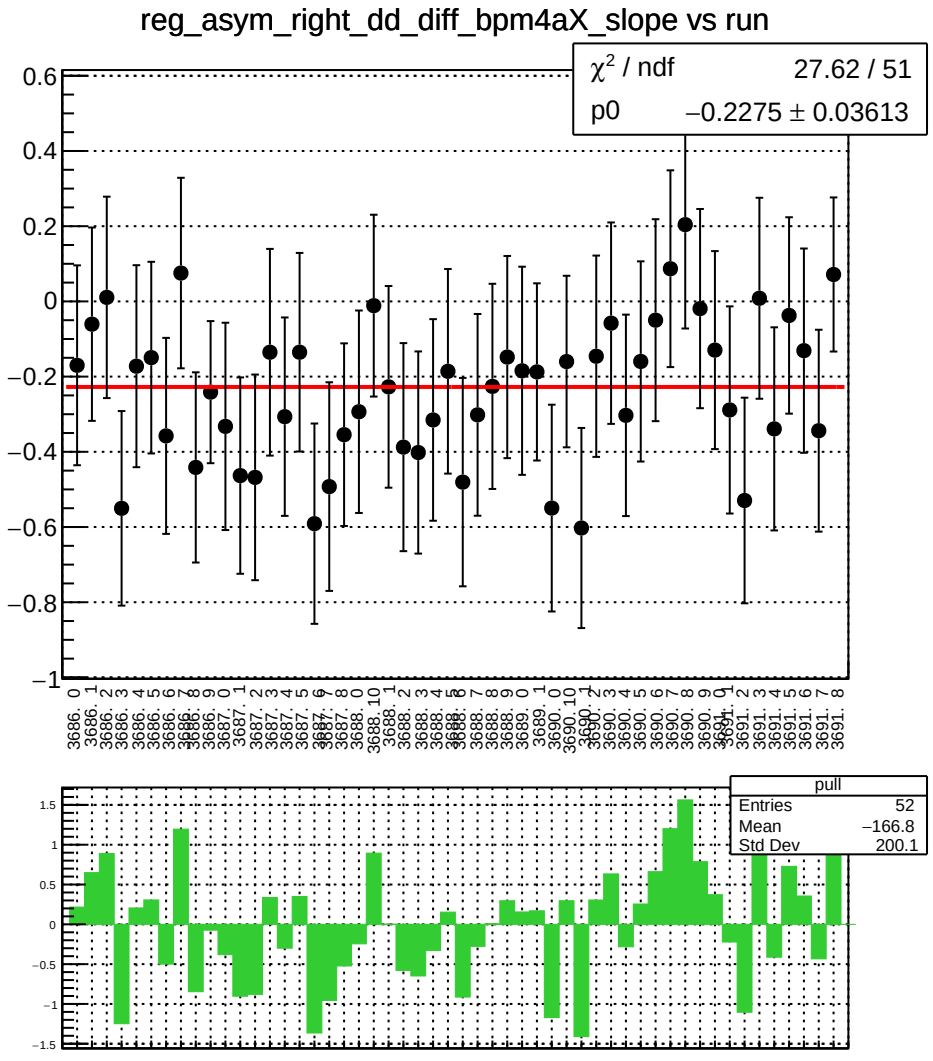

pull1D
Entries 52
Mean −0.002474
Std Dev 0.6376

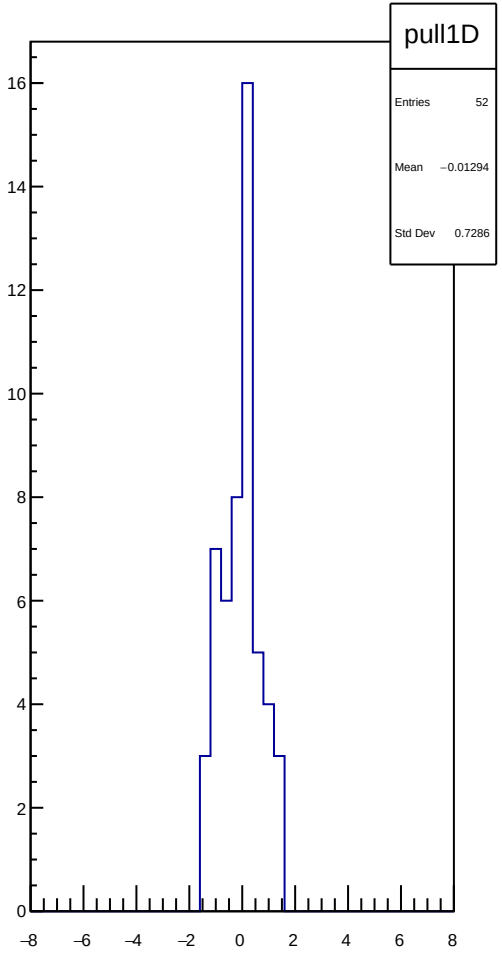

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.52 / 51
p0 −8.188 ± 0.9231
pull
Entries 52
Mean −724.4
Std Dev 752.8

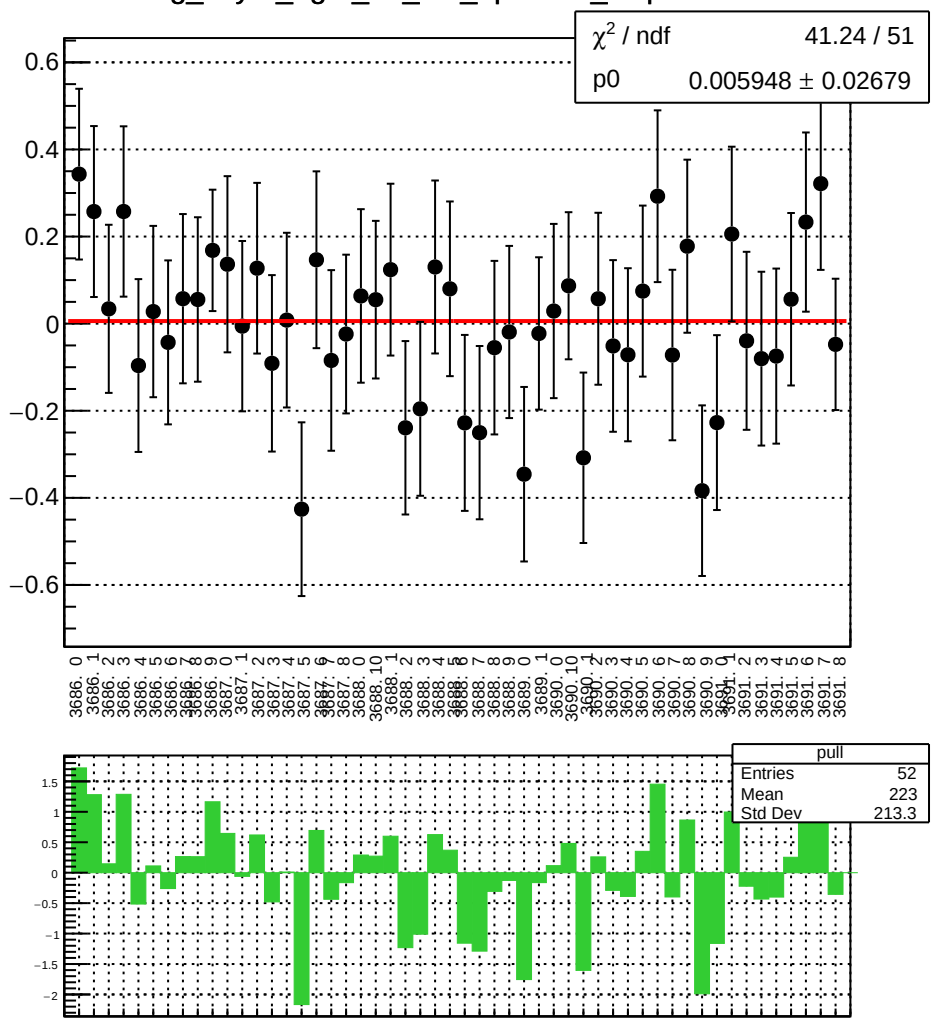

pull1D
Entries 52
Mean 0.002534
Std Dev 0.2602

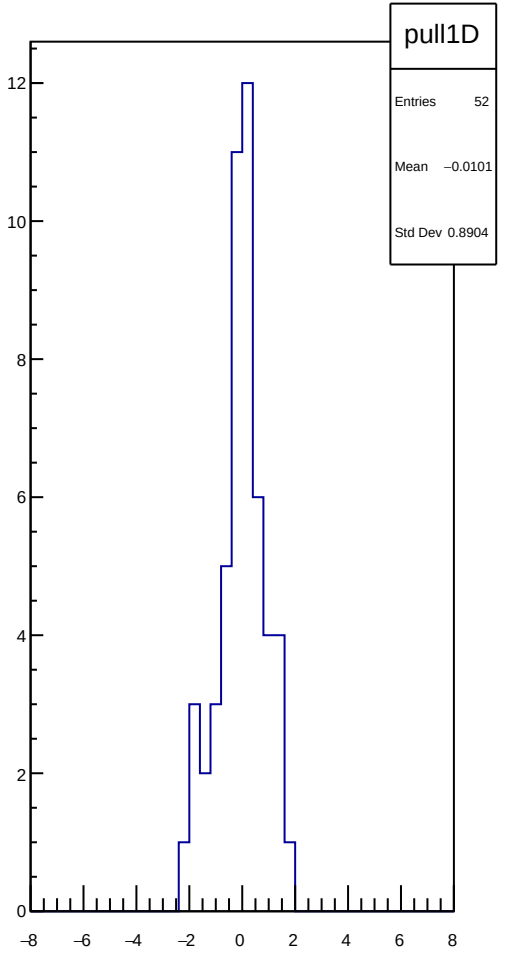

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 4.452 / 51
p0 −54 ± 0.1997
pull
Entries 52
Mean −599
Std Dev 625.7

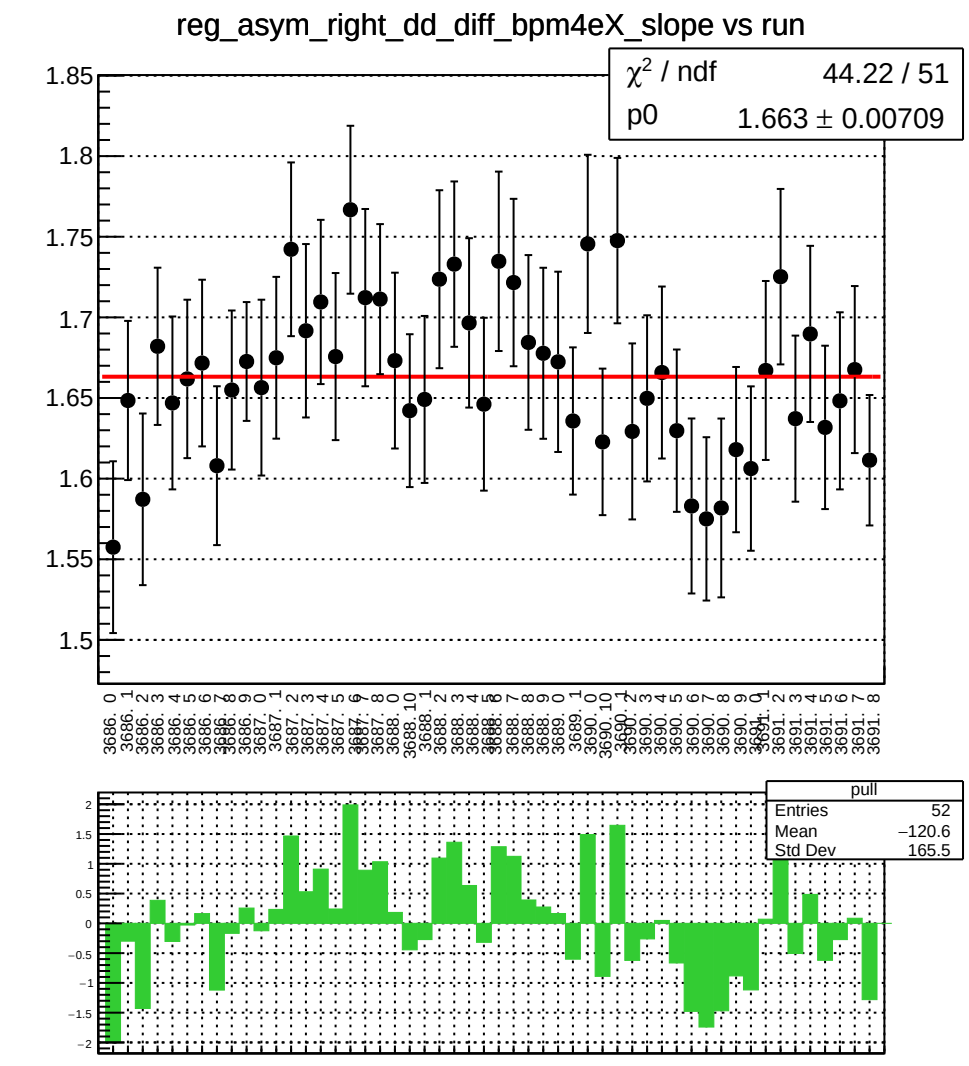

pull1D
Entries 52
Mean 0.001592
Std Dev 0.2926

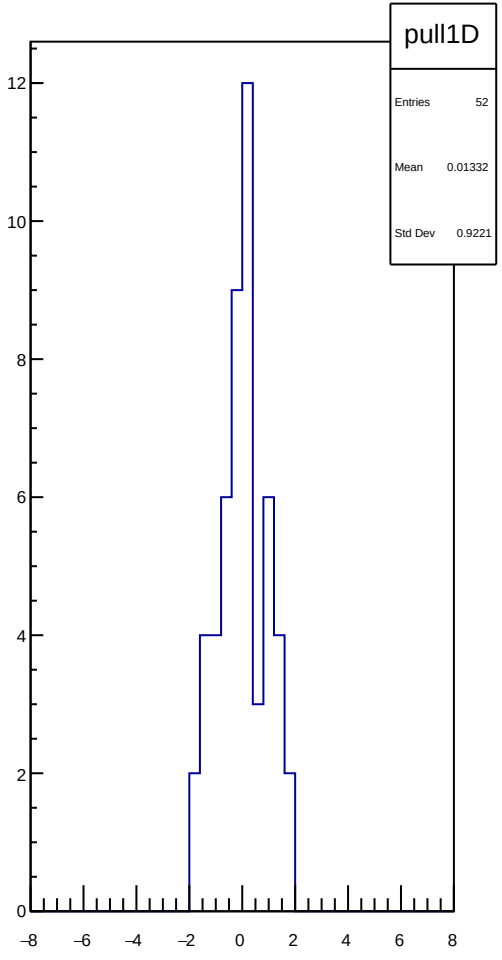

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 27.62 / 51
p0 −0.2275 ± 0.03613
pull
Entries 52
Mean −166.8
Std Dev 200.1

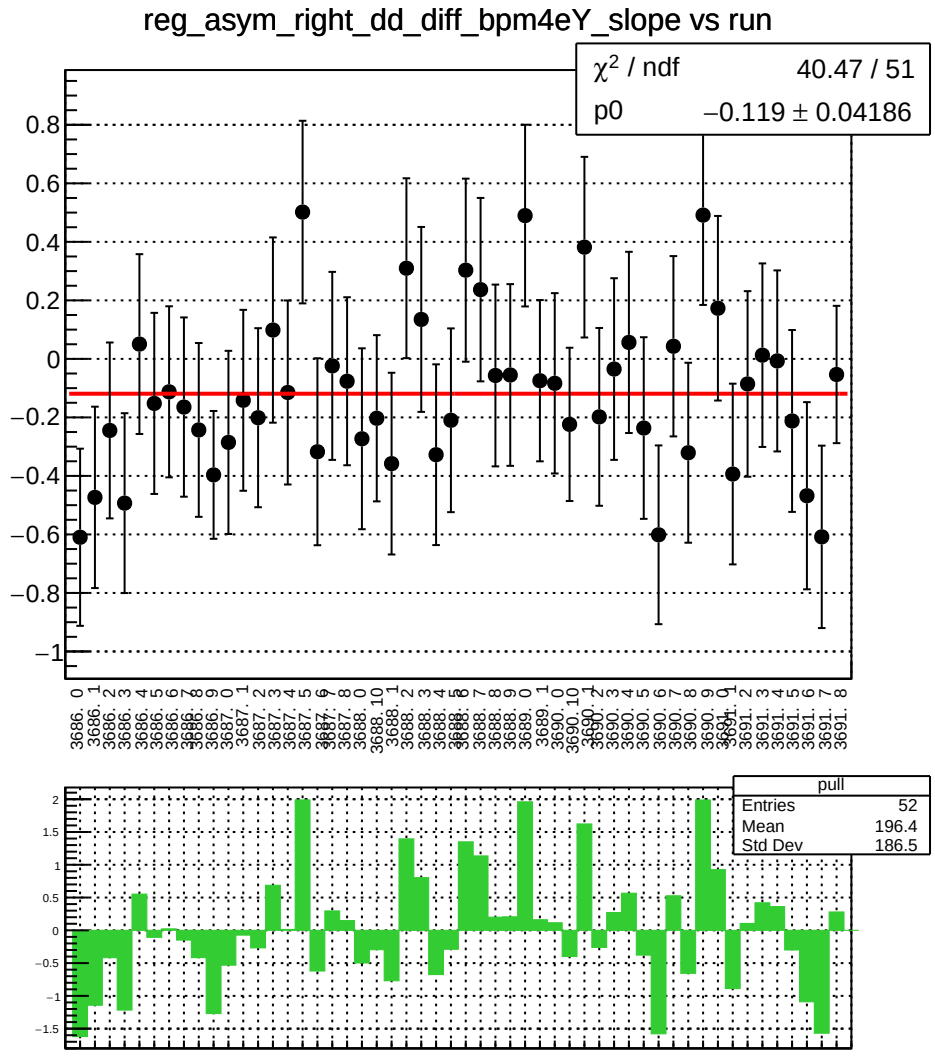

pull1D
Entries 52
Mean −0.01294
Std Dev 0.7286

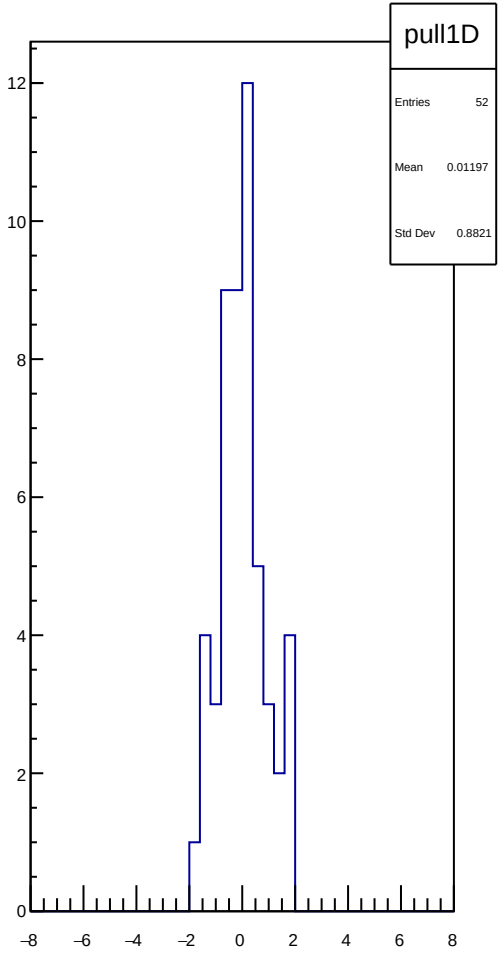

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.24 / 51
p0 0.005948 ± 0.02679
pull
Entries 52
Mean 223
Std Dev 213.3

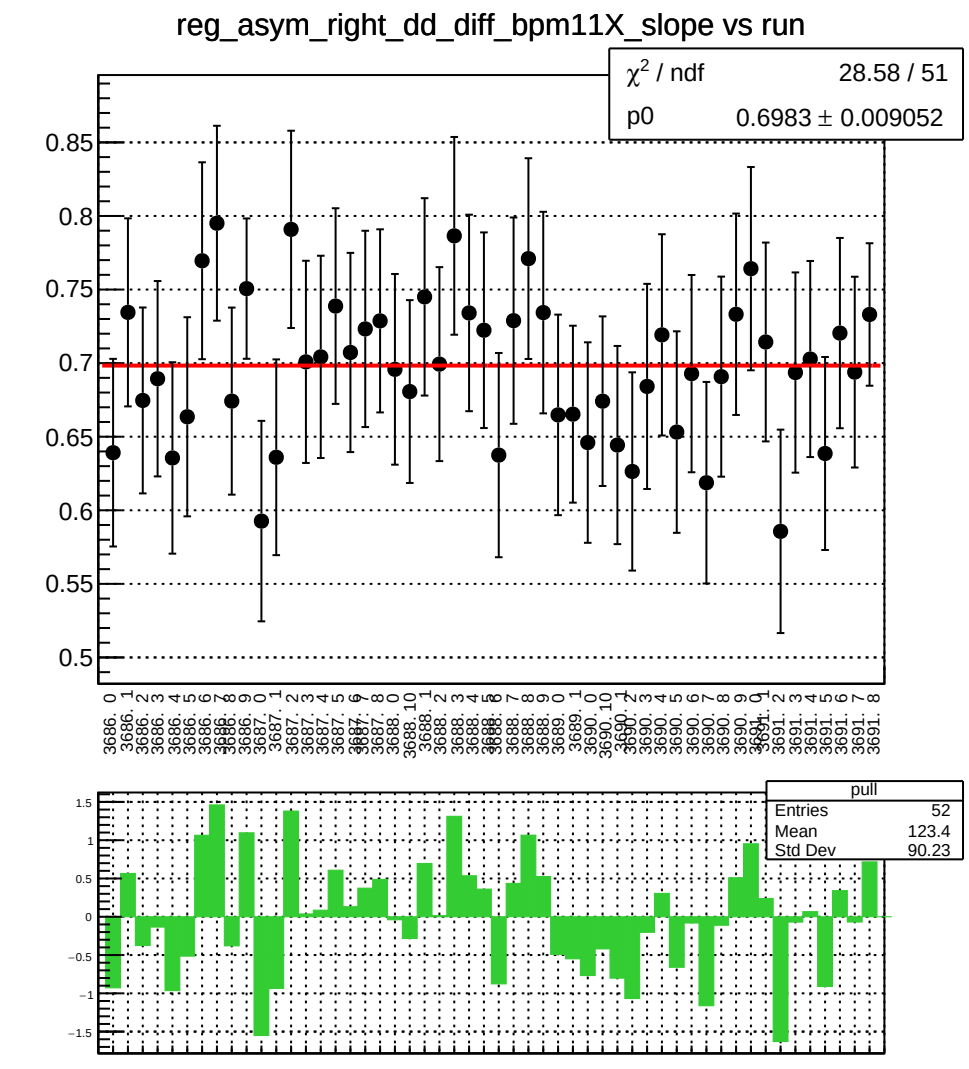

pull1D
Entries 52
Mean −0.0101
Std Dev 0.8904

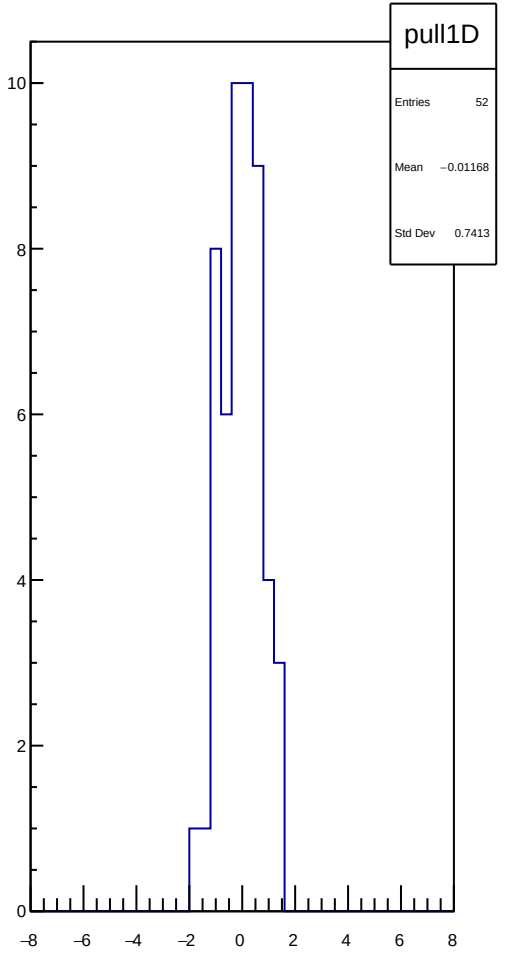

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.22 / 51
p0 1.663 ± 0.00709
pull
Entries 52
Mean −120.6
Std Dev 165.5

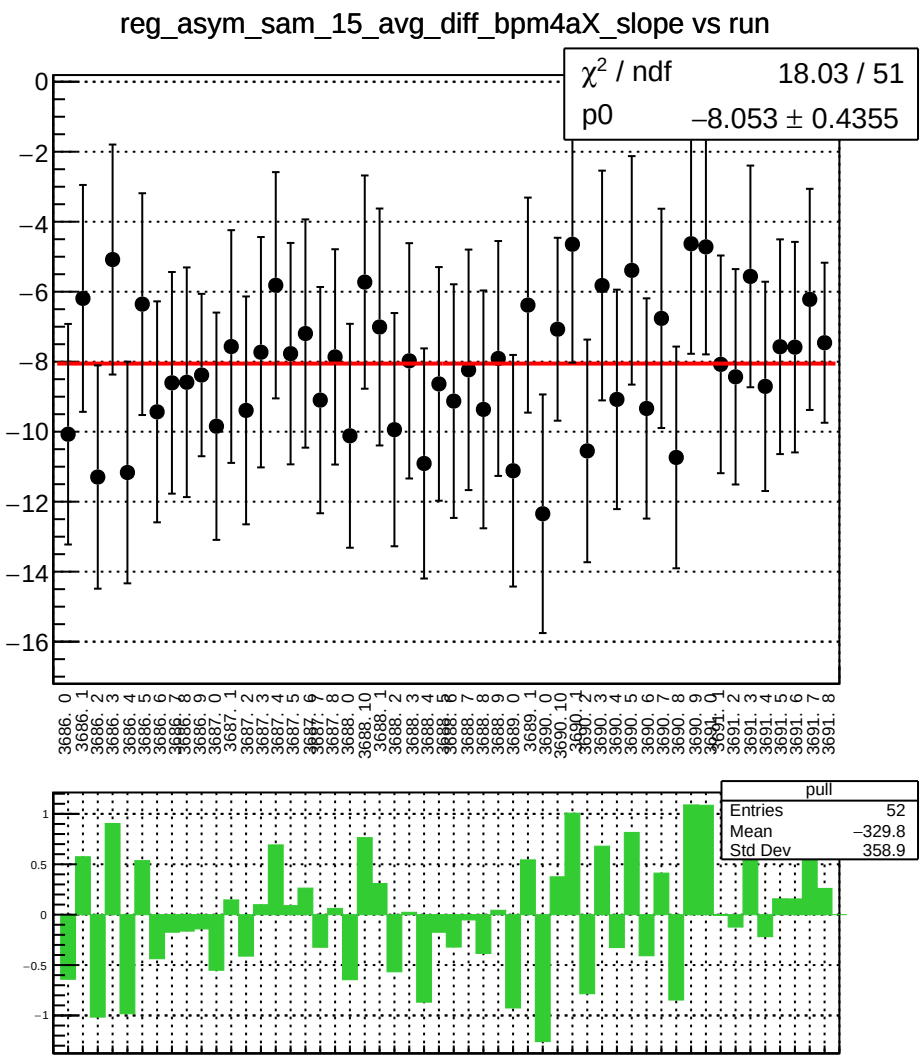

pull1D
Entries 52
Mean 0.01332
Std Dev 0.9221

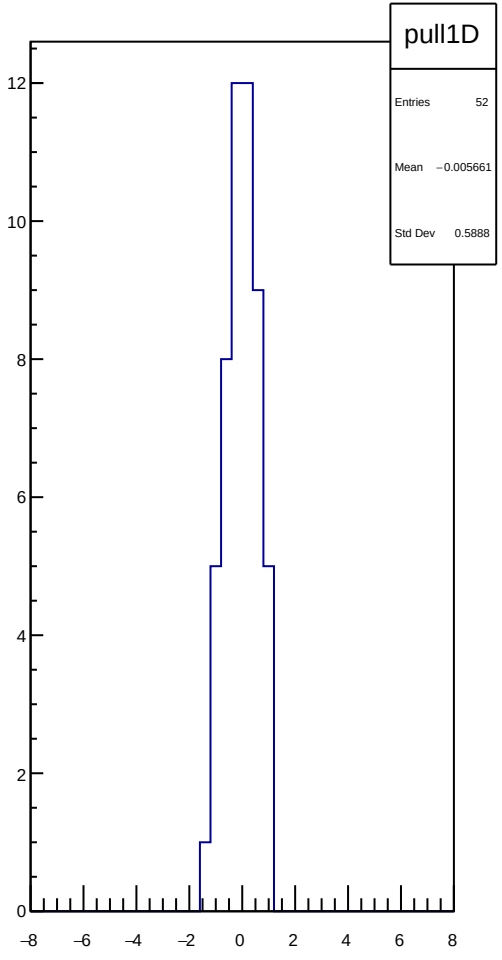

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.47 / 51
p0 −0.119 ± 0.04186
pull
Entries 52
Mean 196.4
Std Dev 186.5

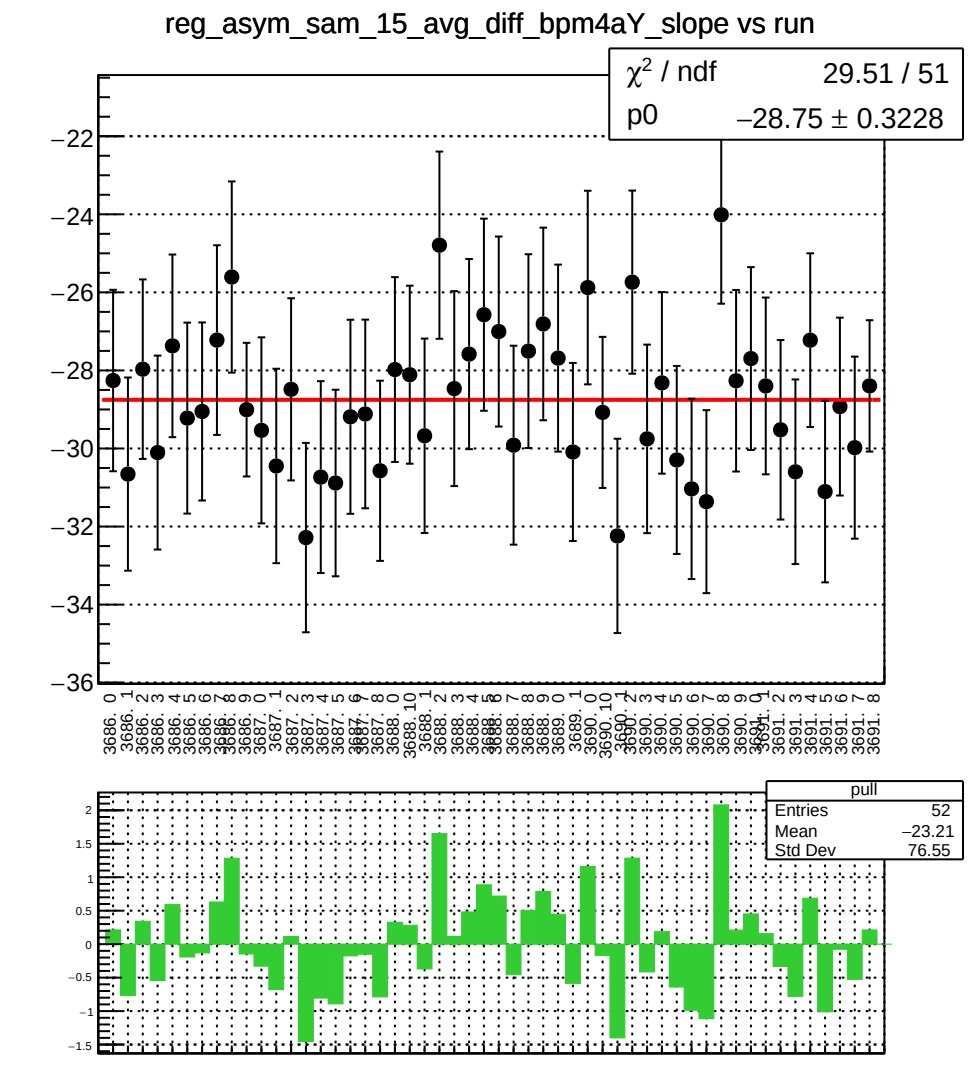

pull1D
Entries 52
Mean 0.01197
Std Dev 0.8821

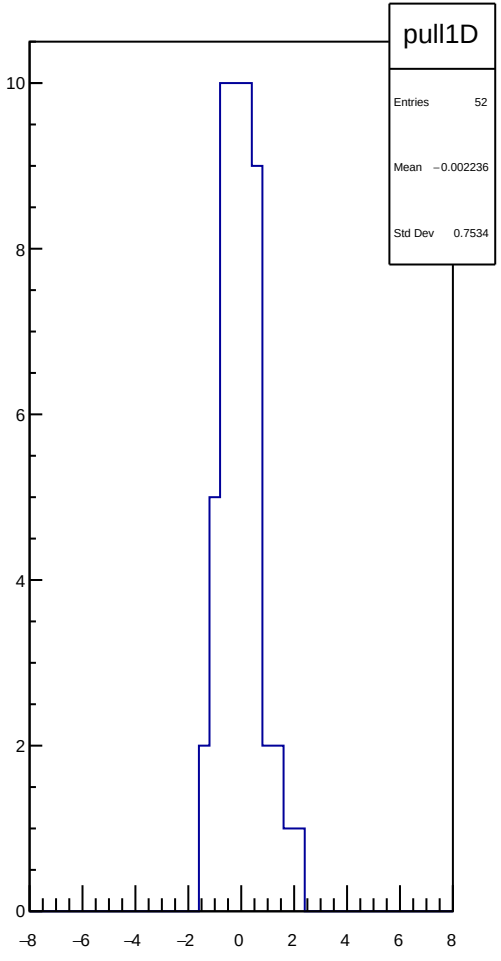

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 28.58 / 51
p0 0.6983 ± 0.009052
pull
Entries 52
Mean 123.4
Std Dev 90.23

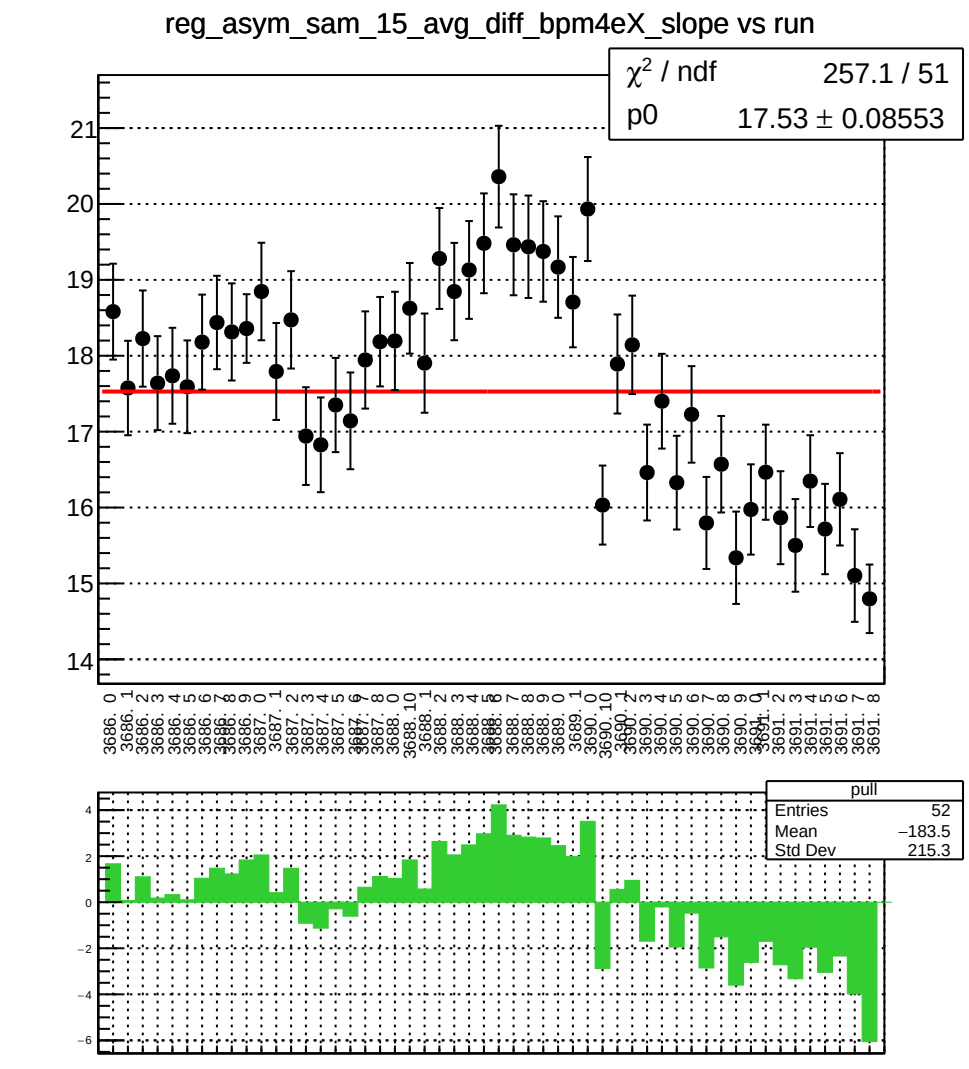

pull1D
Entries 52
Mean −0.01168
Std Dev 0.7413

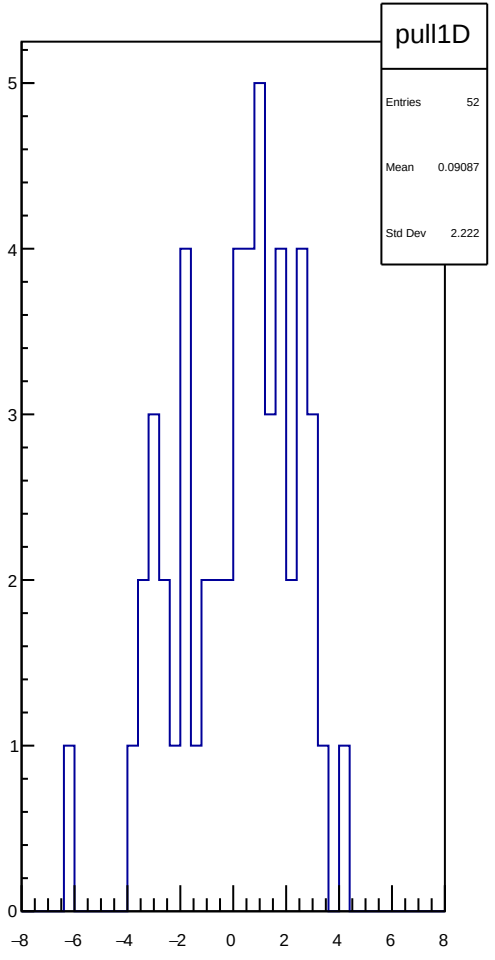

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.03 / 51
p0 −8.053 ± 0.4355
pull
Entries 52
Mean −329.8
Std Dev 358.9

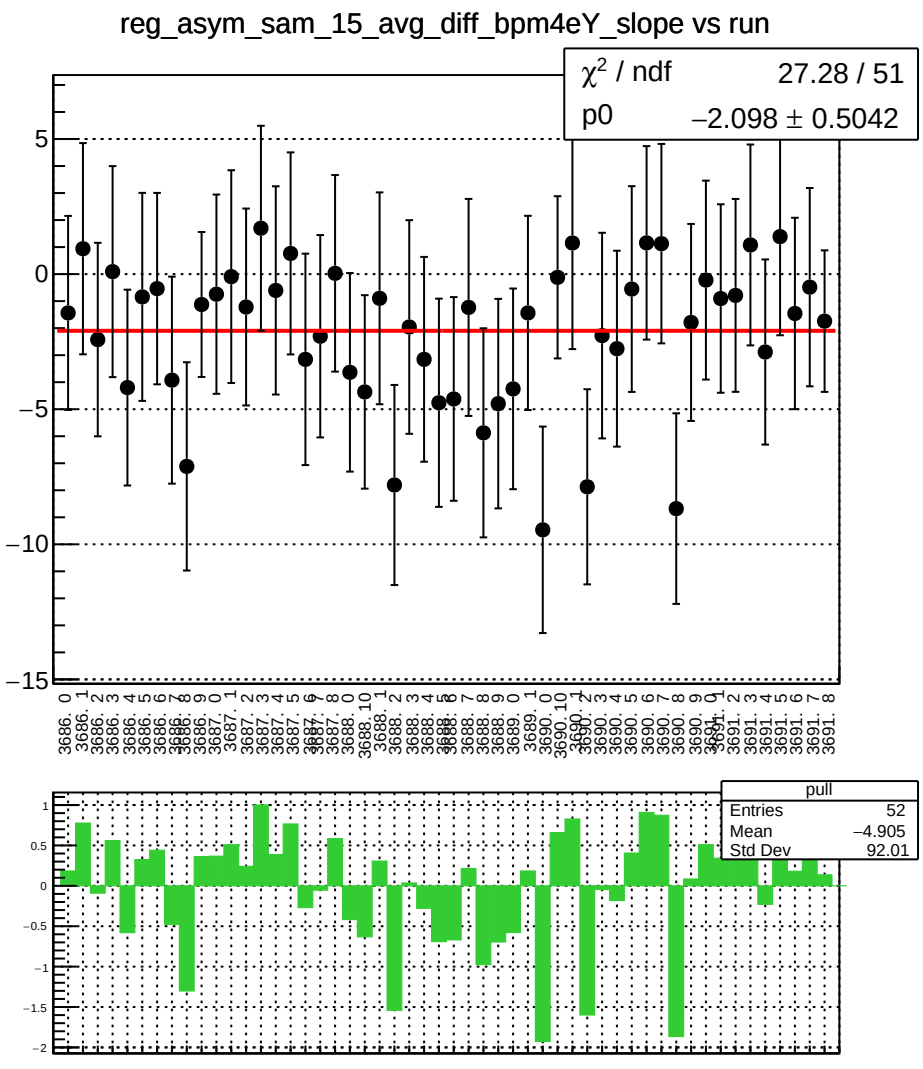

pull1D
Entries 52
Mean −0.005661
Std Dev 0.5888

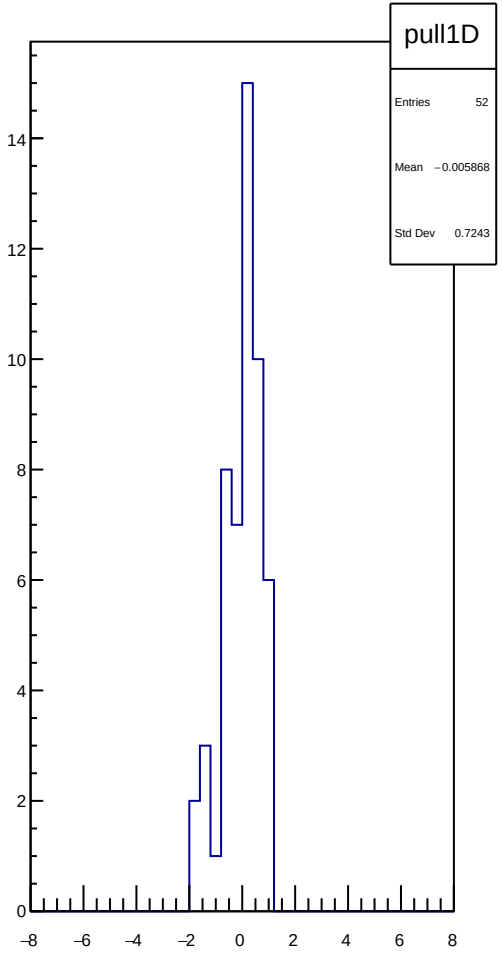

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.51 / 51
p0 −28.75 ± 0.3228
pull
Entries 52
Mean −23.21
Std Dev 76.55

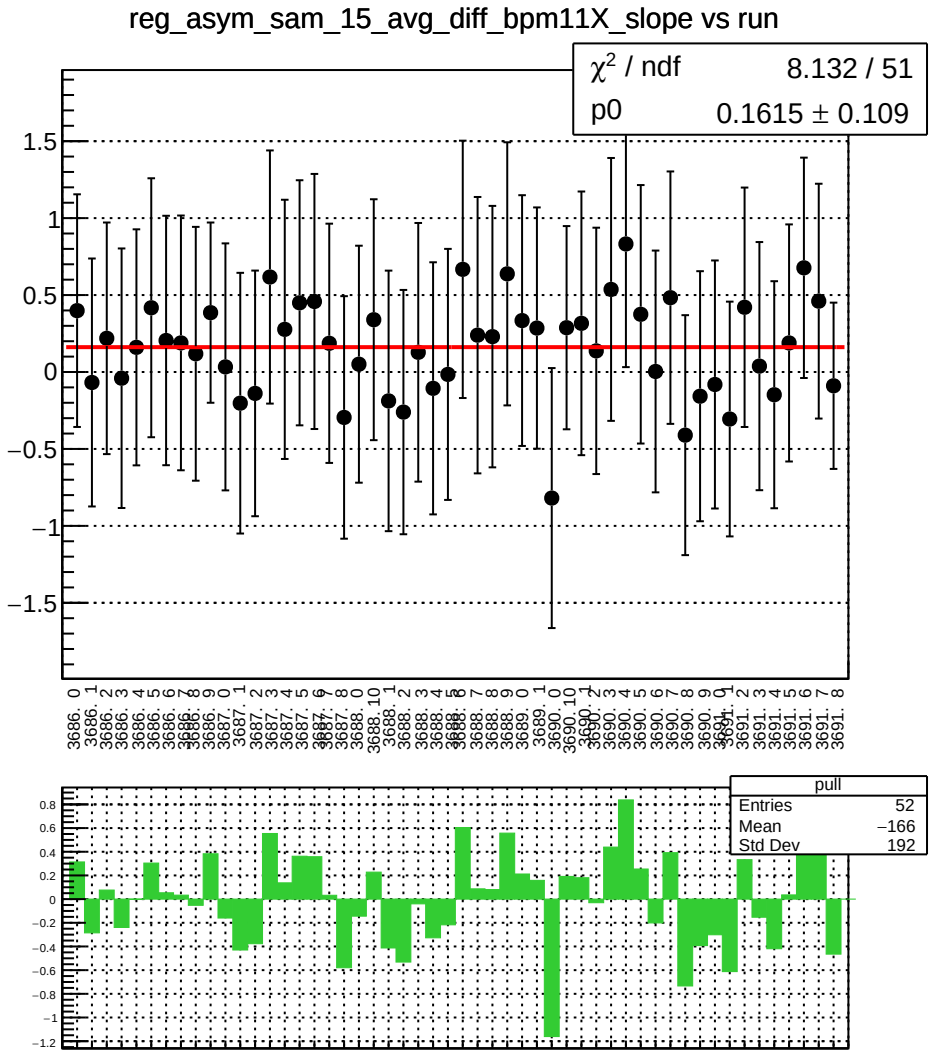

pull1D
Entries 52
Mean −0.002236
Std Dev 0.7534

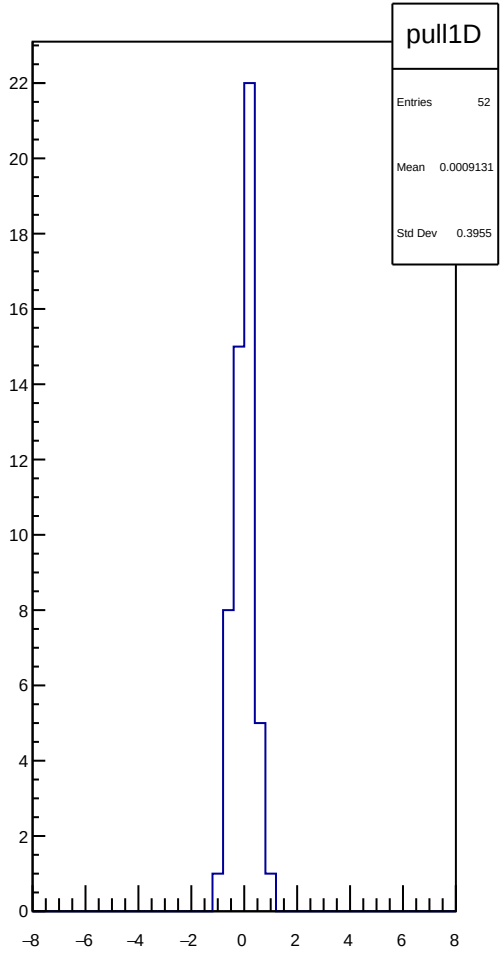

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 257.1 / 51
p0 17.53 ± 0.08553
pull
Entries 52
Mean −183.5
Std Dev 215.3

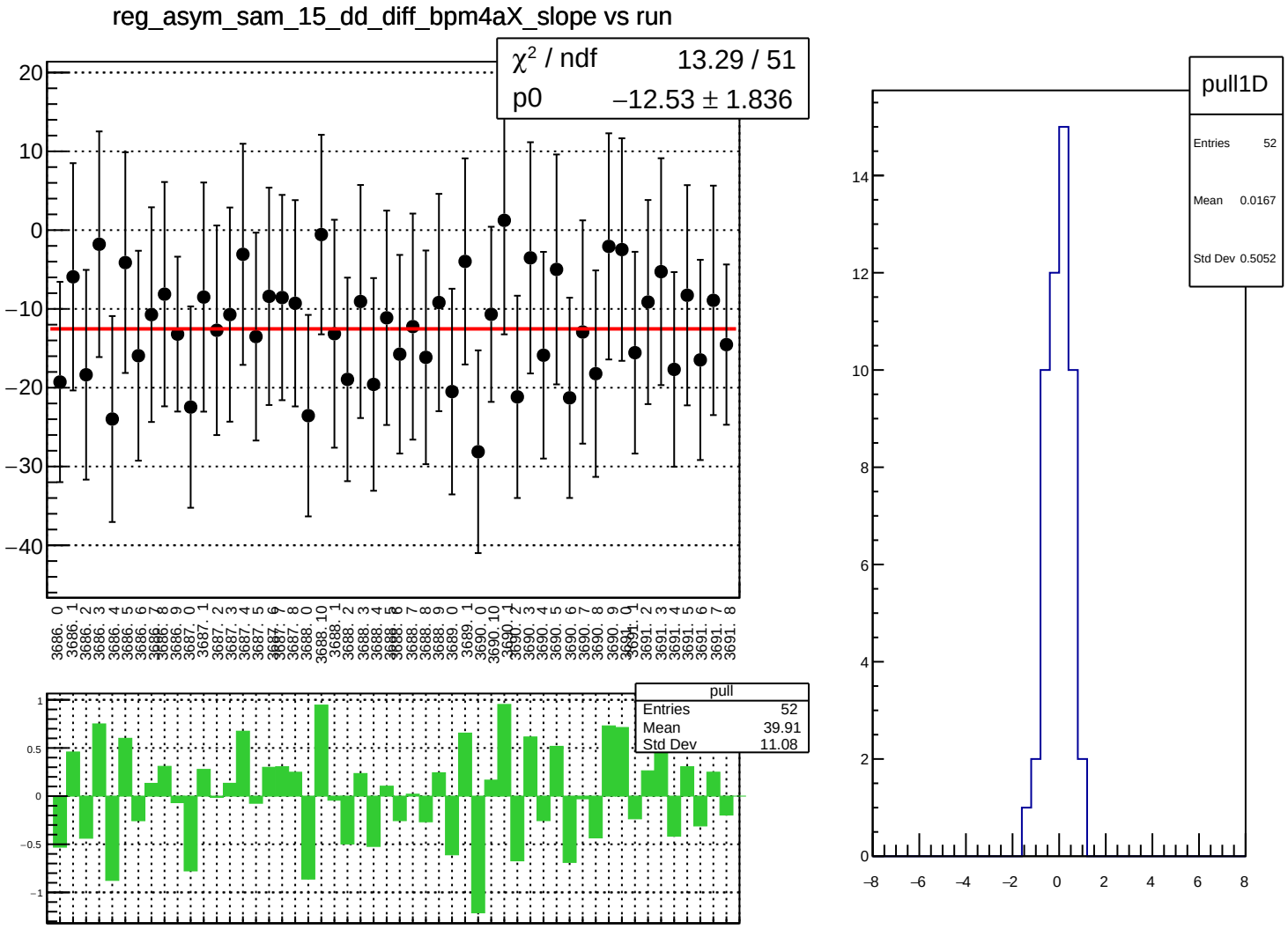

pull1D
Entries 52
Mean 0.09087
Std Dev 2.222

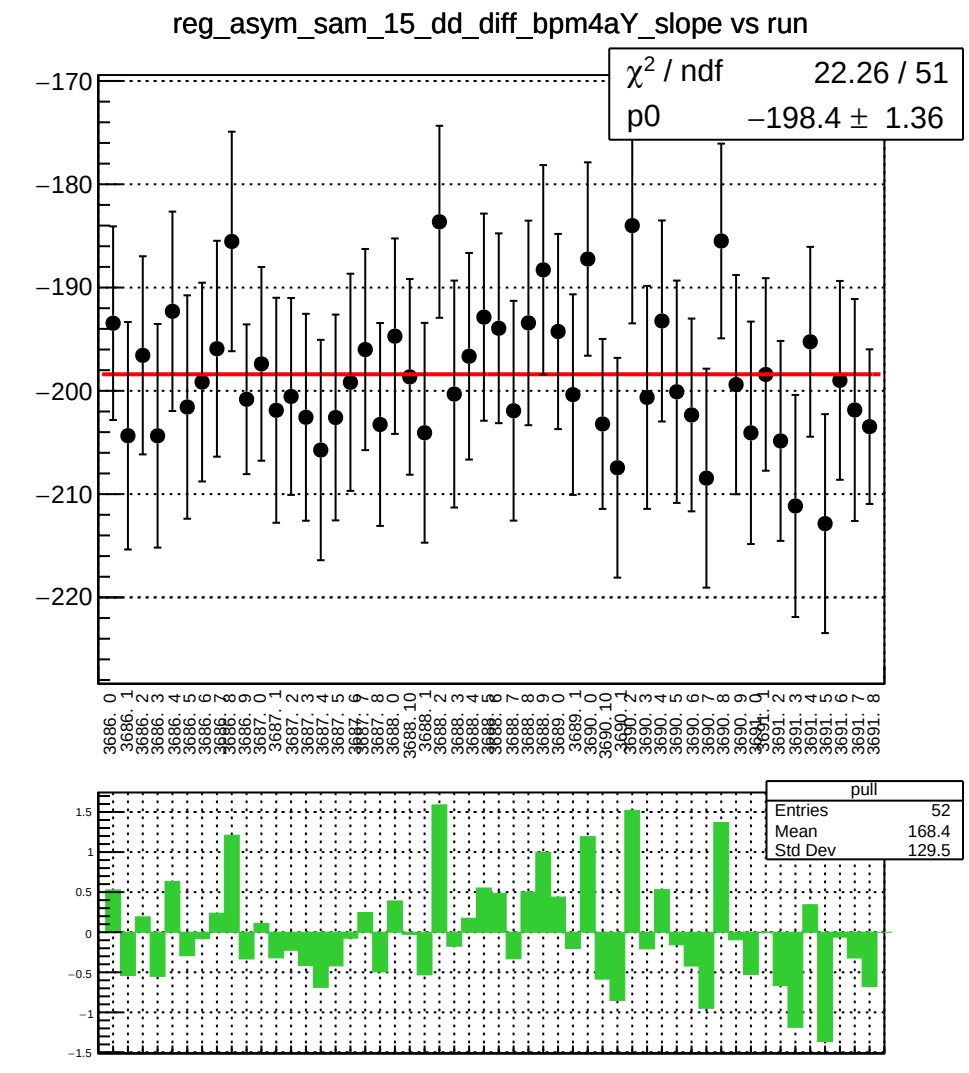

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.28 / 51
p0 −2.098 ± 0.5042
pull
Entries 52
Mean −4.905
Std Dev 92.01

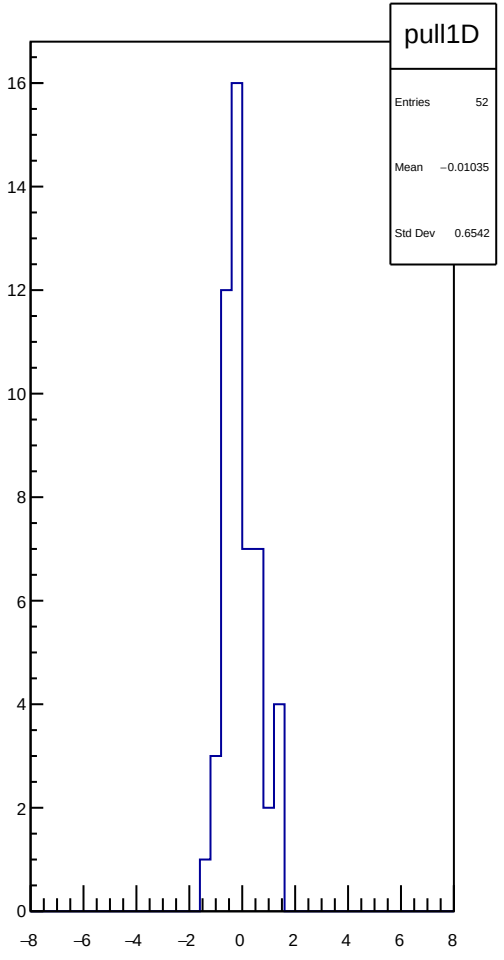

pull1D
Entries 52
Mean −0.005868
Std Dev 0.7243

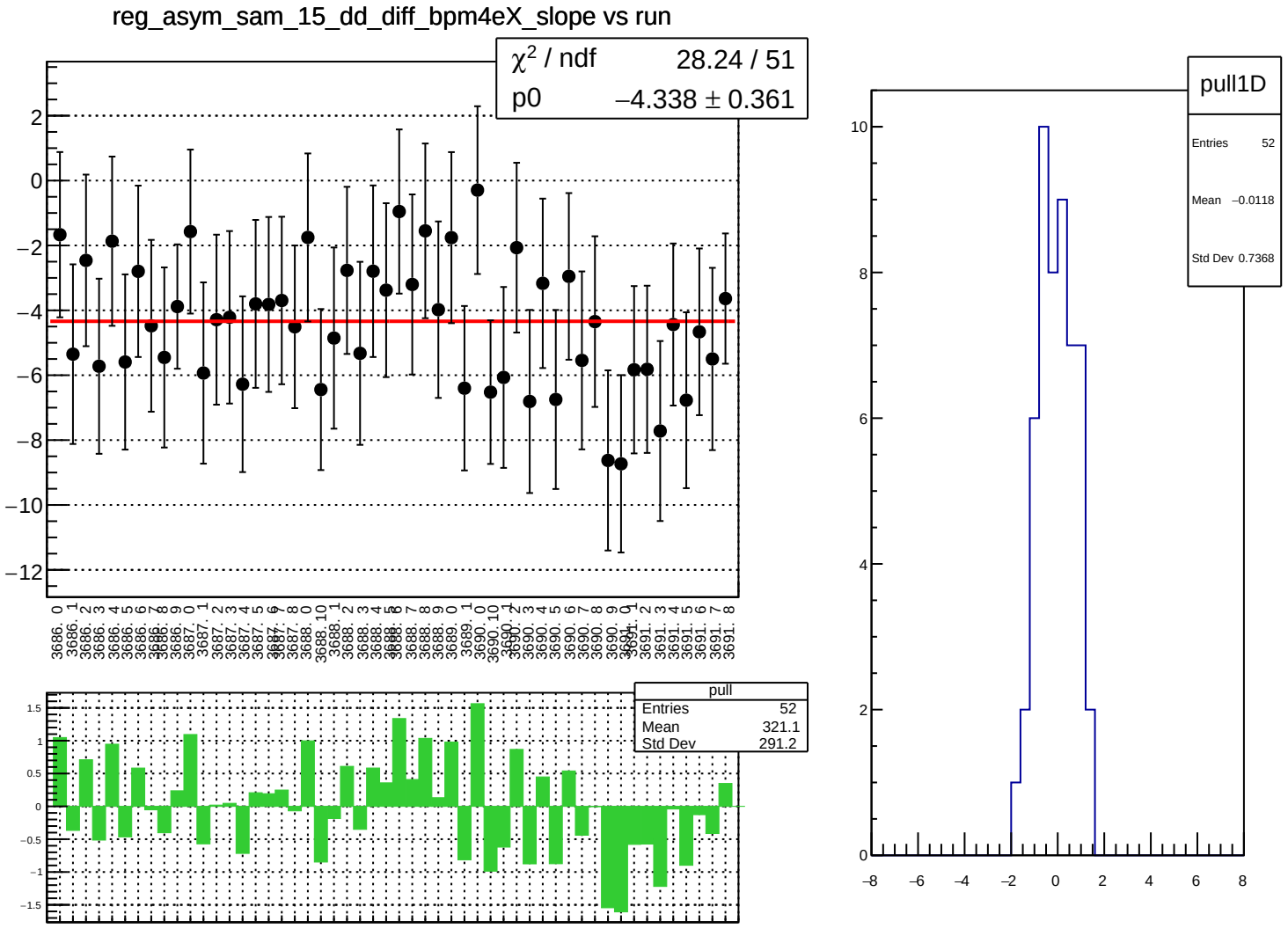

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 8.132 / 51
p0 0.1615 ± 0.109
pull
Entries 52
Mean −166
Std Dev 192

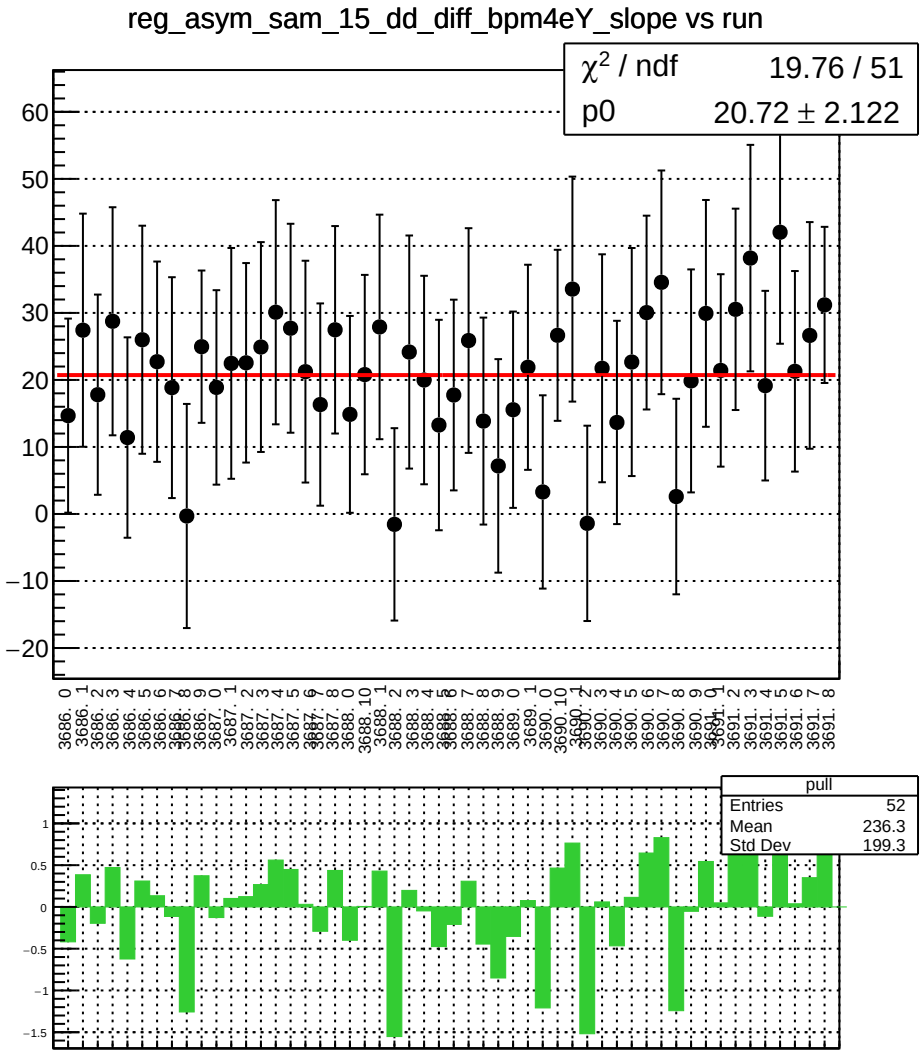

pull1D
Entries 52
Mean 0.0009131
Std Dev 0.3955

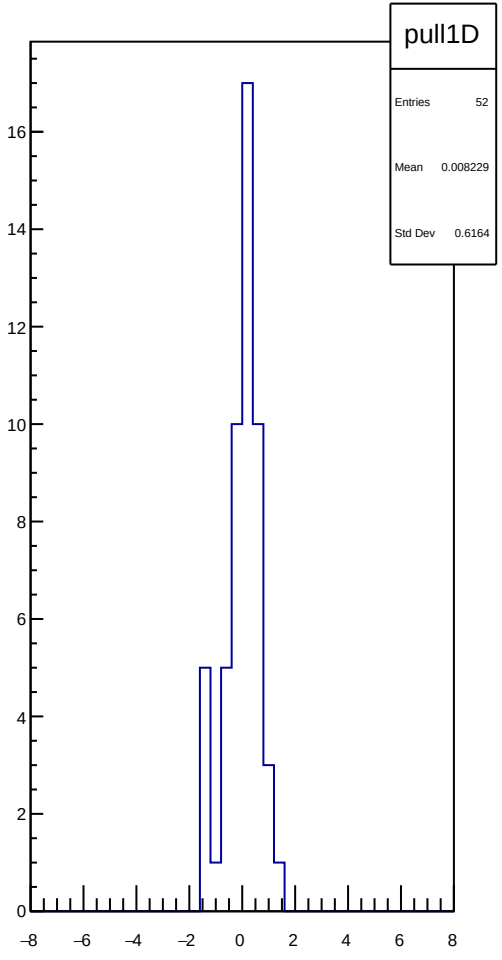

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 13.29 / 51
p0 −12.53 ± 1.836
pull
Entries 52
Mean 39.91
Std Dev 11.08
pull1D
Entries 52
Mean 0.0167
Std Dev 0.5052

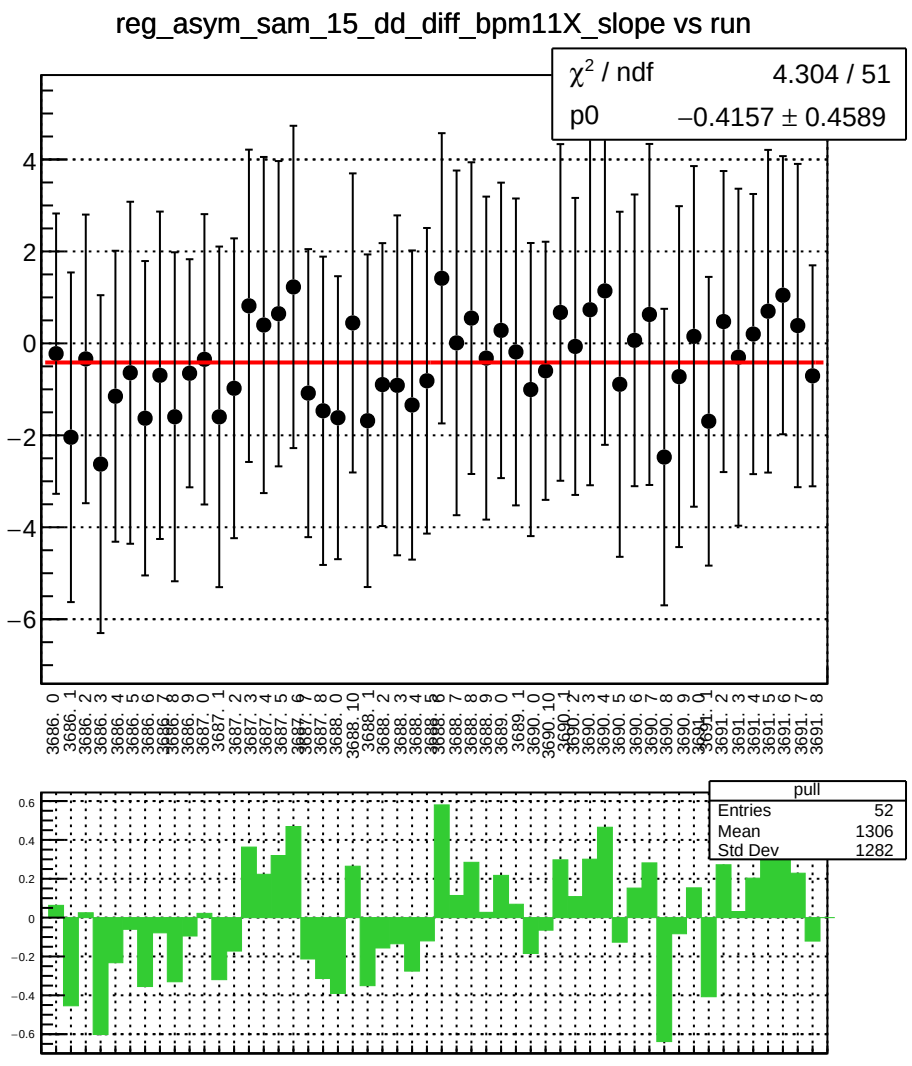

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.26 / 51
p0 −198.4 ± 1.36
pull
Entries 52
Mean 168.4
Std Dev 129.5

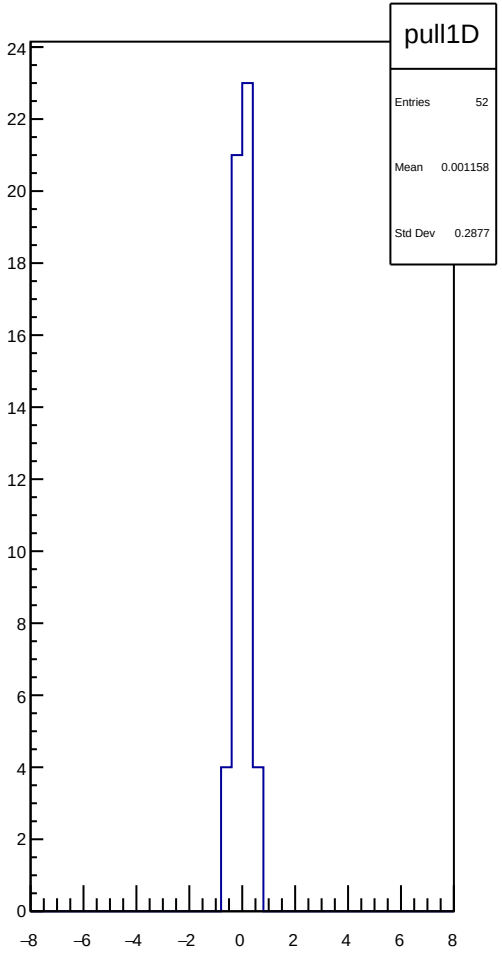

pull1D
Entries 52
Mean −0.01035
Std Dev 0.6542

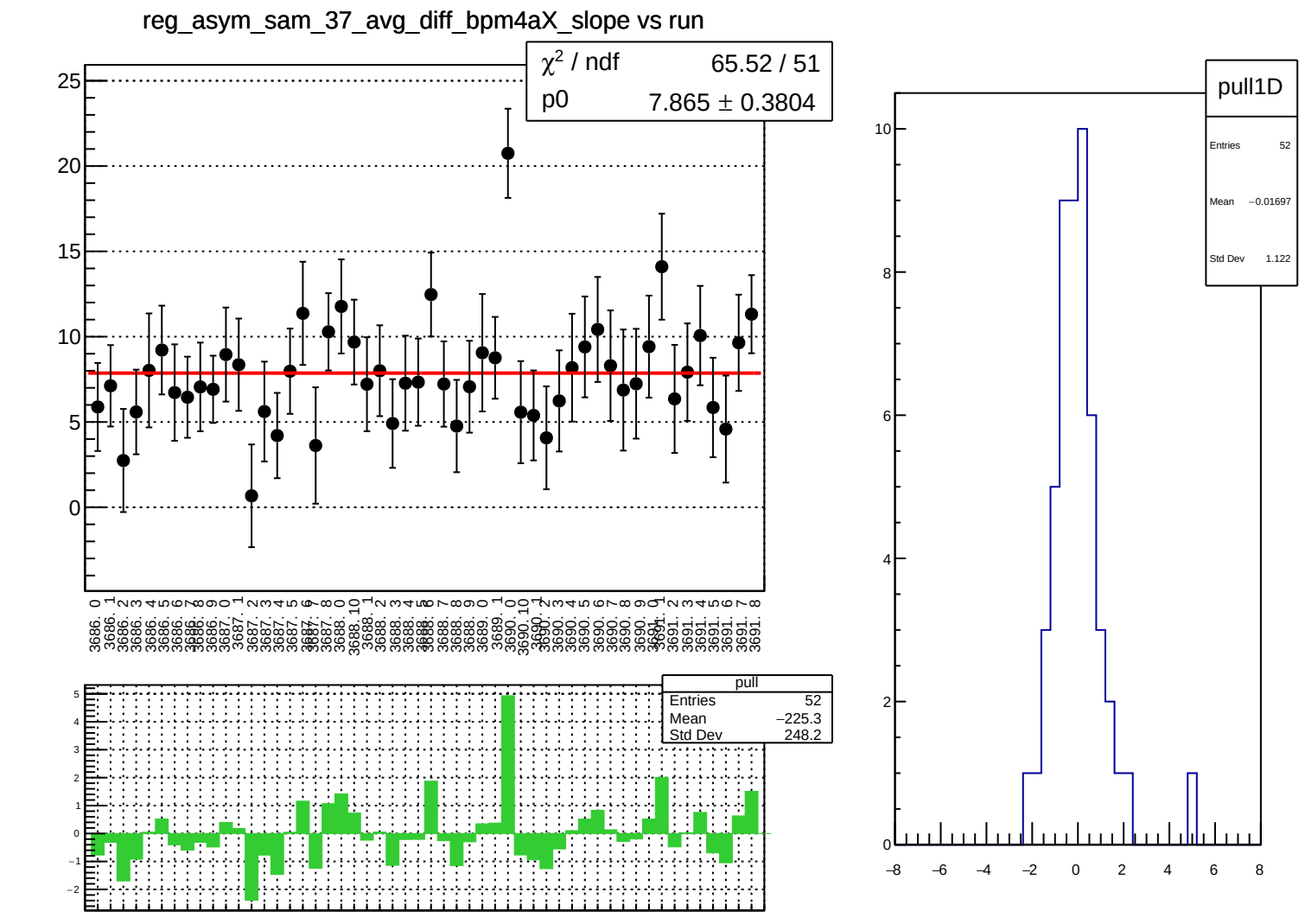

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.24 / 51
p0 −4.338 ± 0.361
pull
Entries 52
Mean 321.1
Std Dev 291.2
pull1D
Entries 52
Mean −0.0118
Std Dev 0.7368

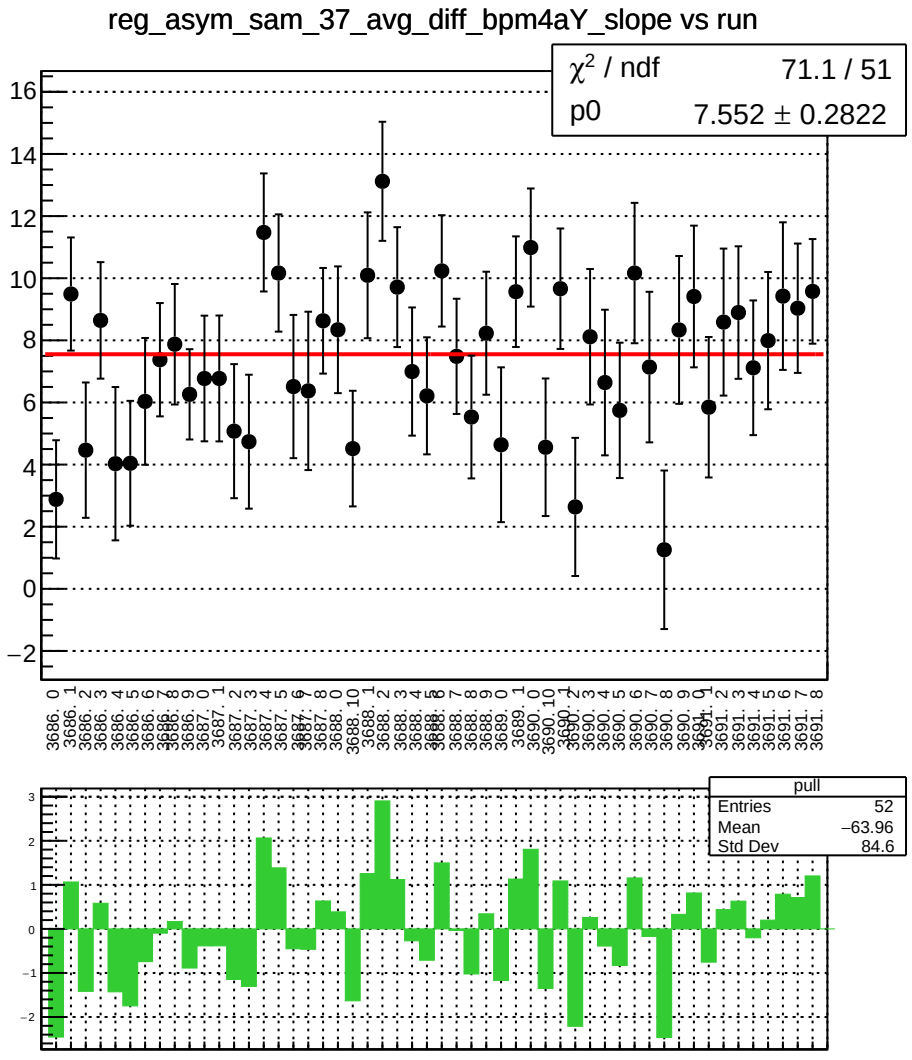

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.76 / 51
p0 20.72 ± 2.122
pull
Entries 52
Mean 236.3
Std Dev 199.3

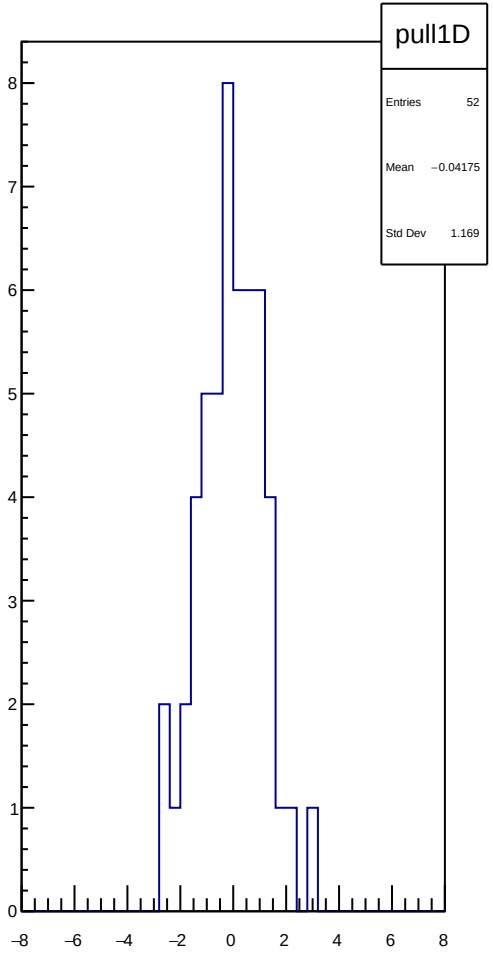

pull1D
Entries 52
Mean 0.008229
Std Dev 0.6164

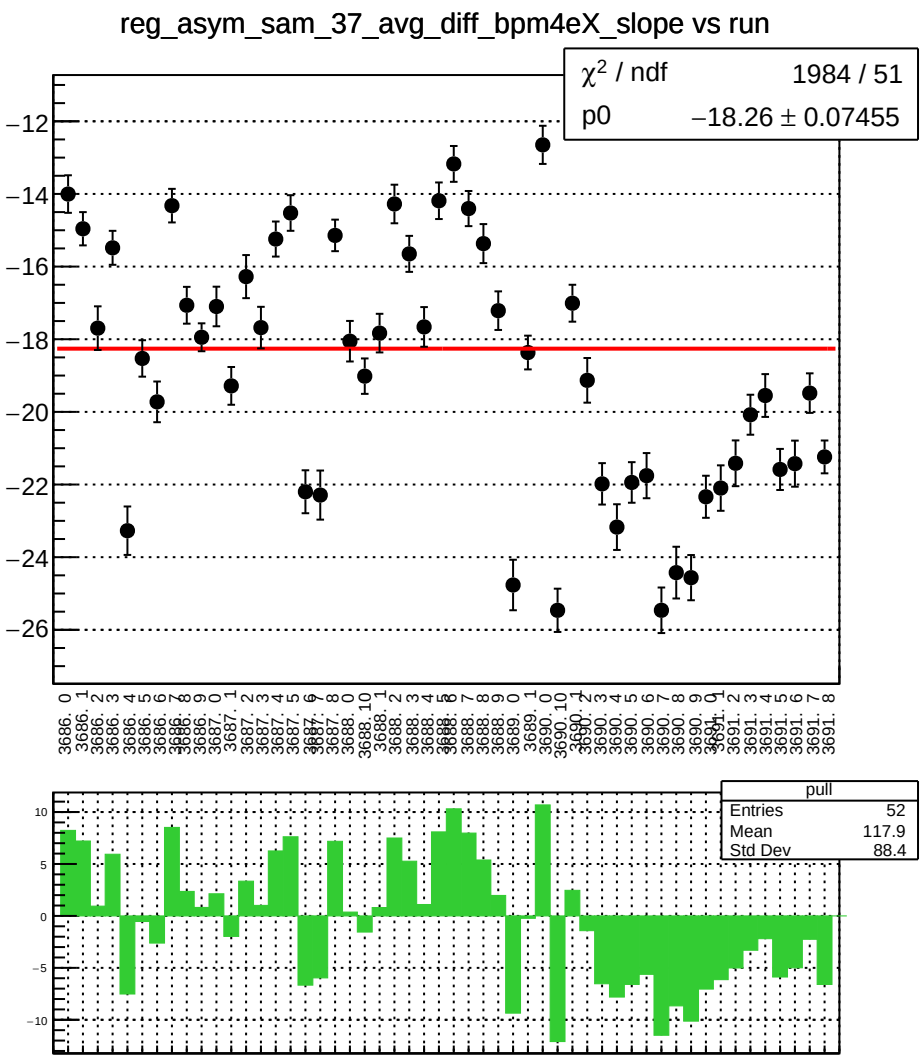

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 4.304 / 51
p0 −0.4157 ± 0.4589
pull
Entries 52
Mean 1306
Std Dev 1282

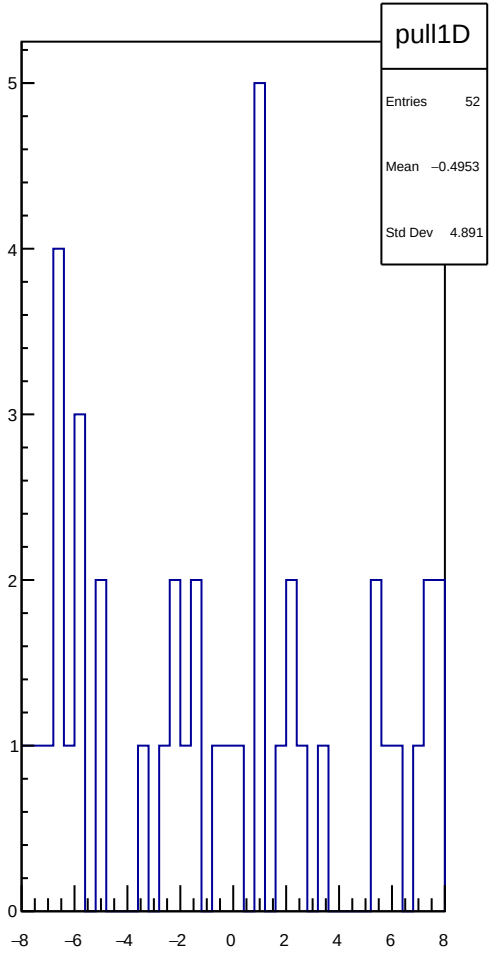

pull1D
Entries 52
Mean 0.001158
Std Dev 0.2877


reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 65.52 / 51
p0 7.865 ± 0.3804
pull
Entries 52
Mean −225.3
Std Dev 248.2
pull1D
Entries 52
Mean −0.01697
Std Dev 1.122

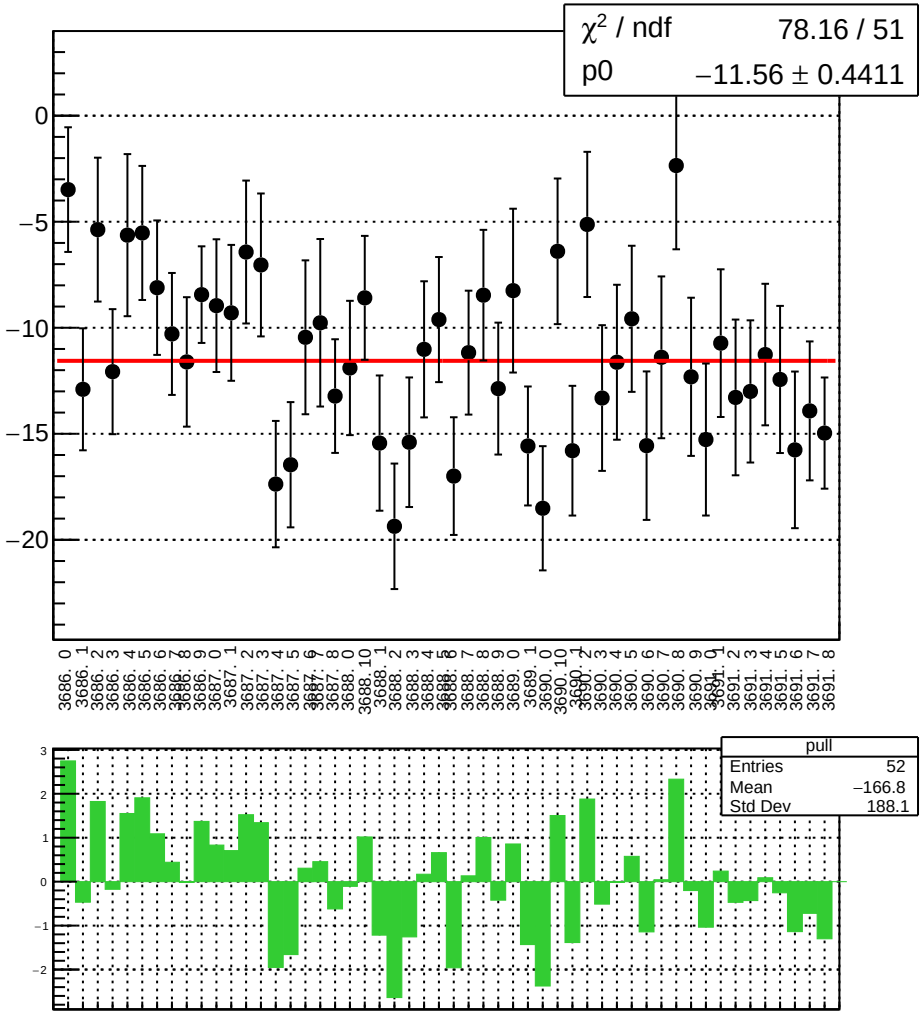

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.1 / 51
p0 7.552 ± 0.2822
pull
Entries 52
Mean −63.96
Std Dev 84.6

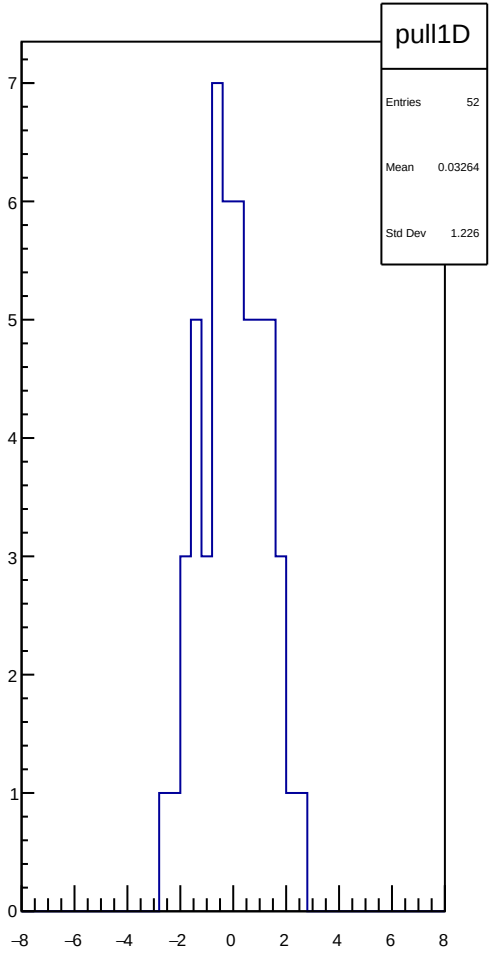

pull1D
Entries 52
Mean −0.04175
Std Dev 1.169

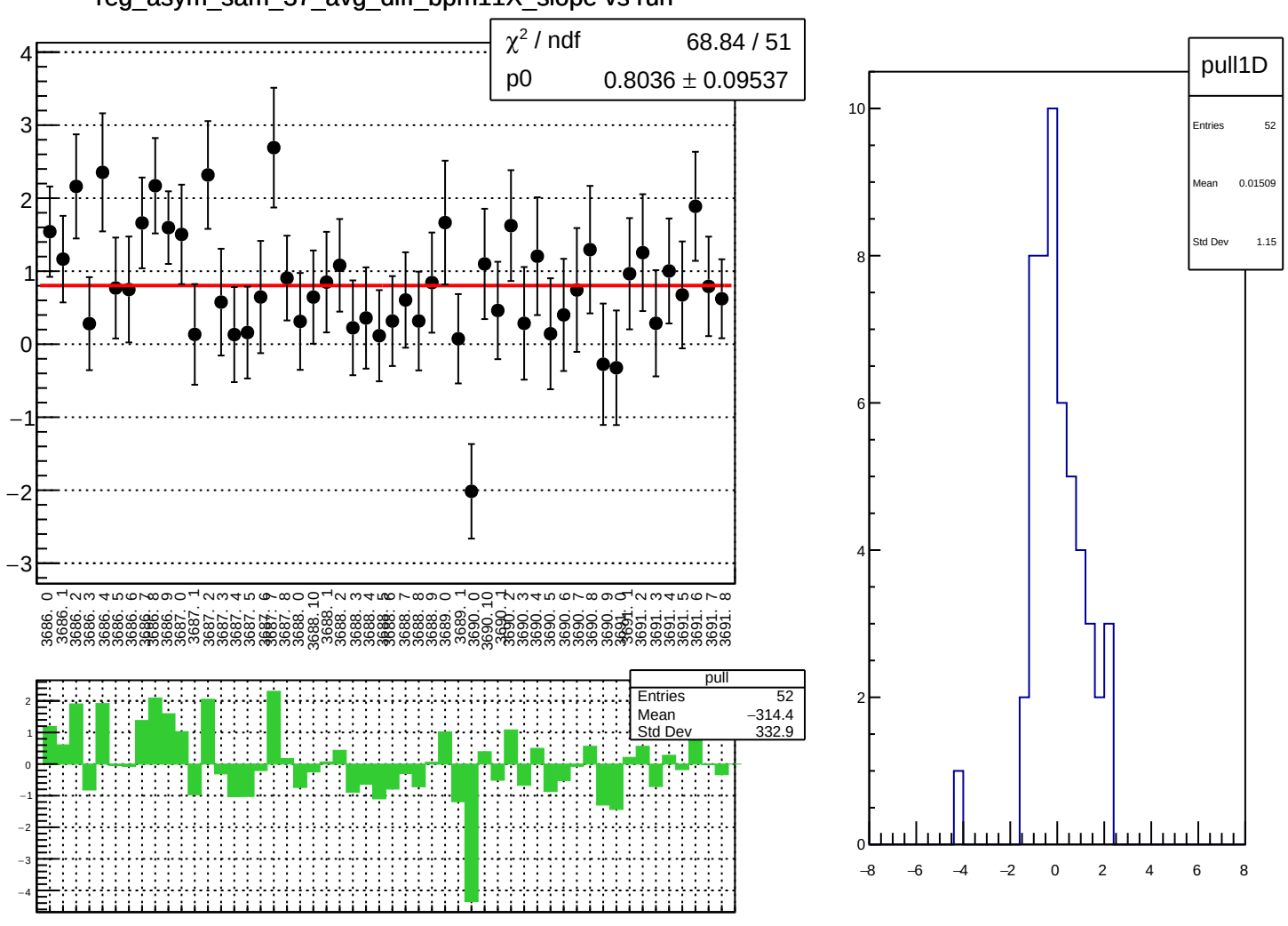

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 1984 / 51
p0 −18.26 ± 0.07455
pull
Entries 52
Mean 117.9
Std Dev 88.4

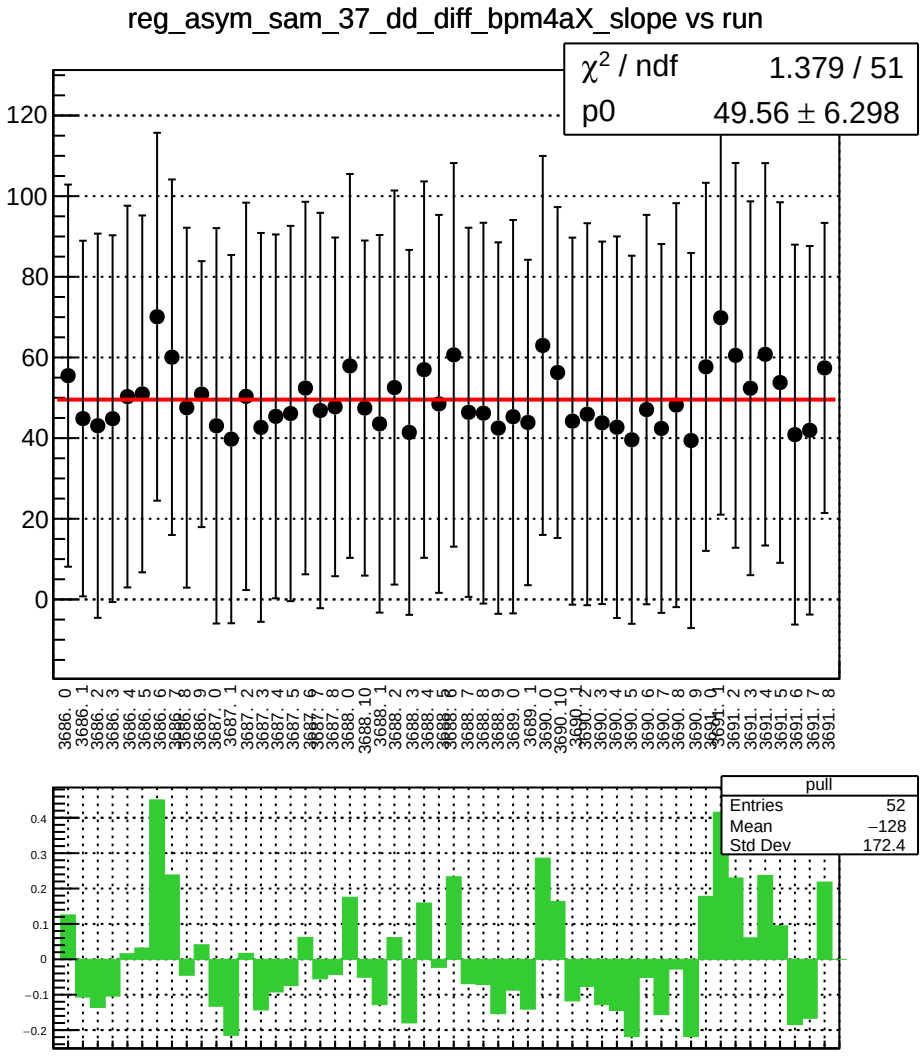

pull1D
Entries 52
Mean −0.4953
Std Dev 4.891

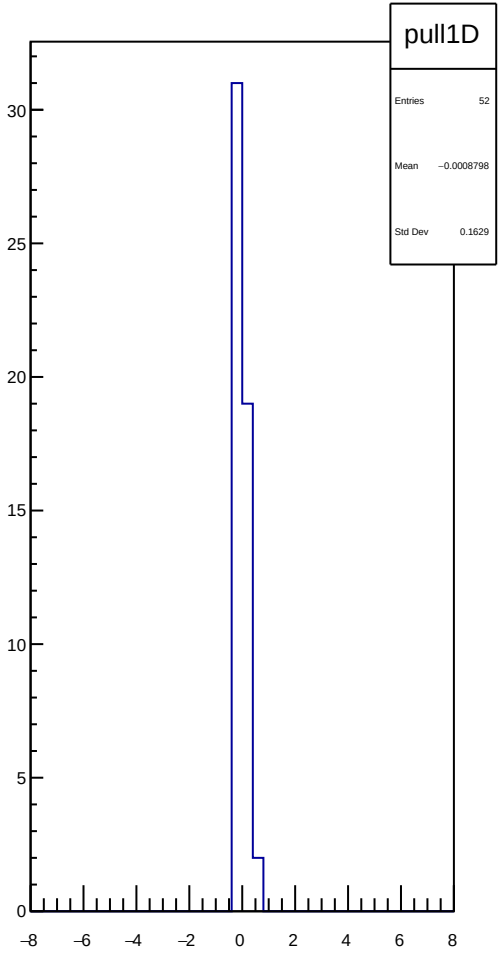
reg_asym_sam_37_avg_diff_bpm4eY_slope vs run

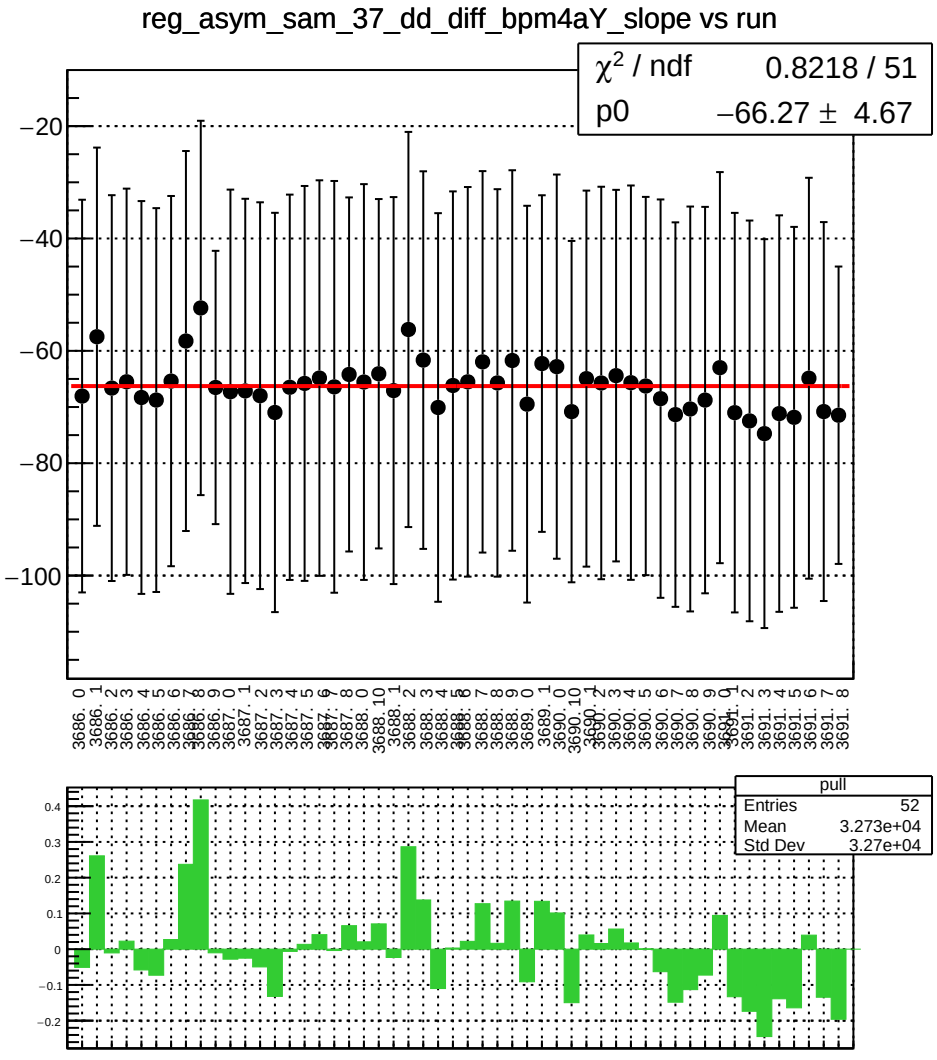


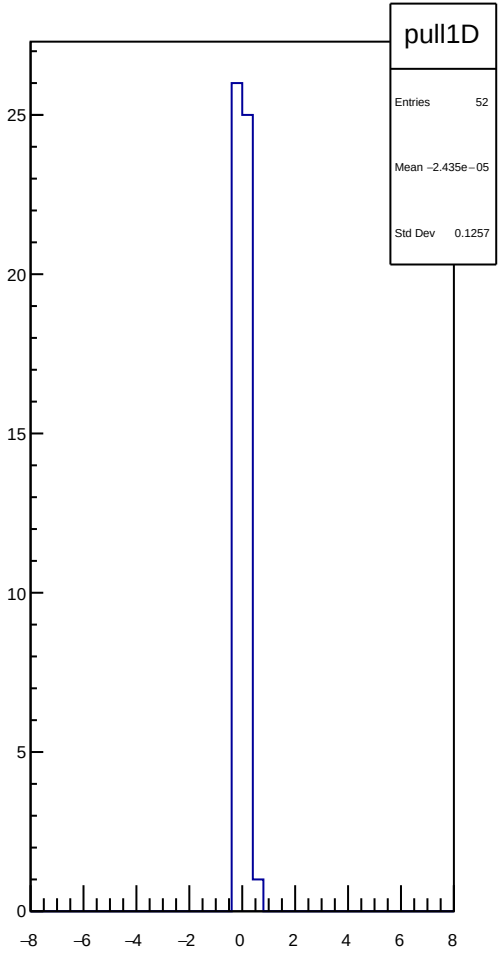


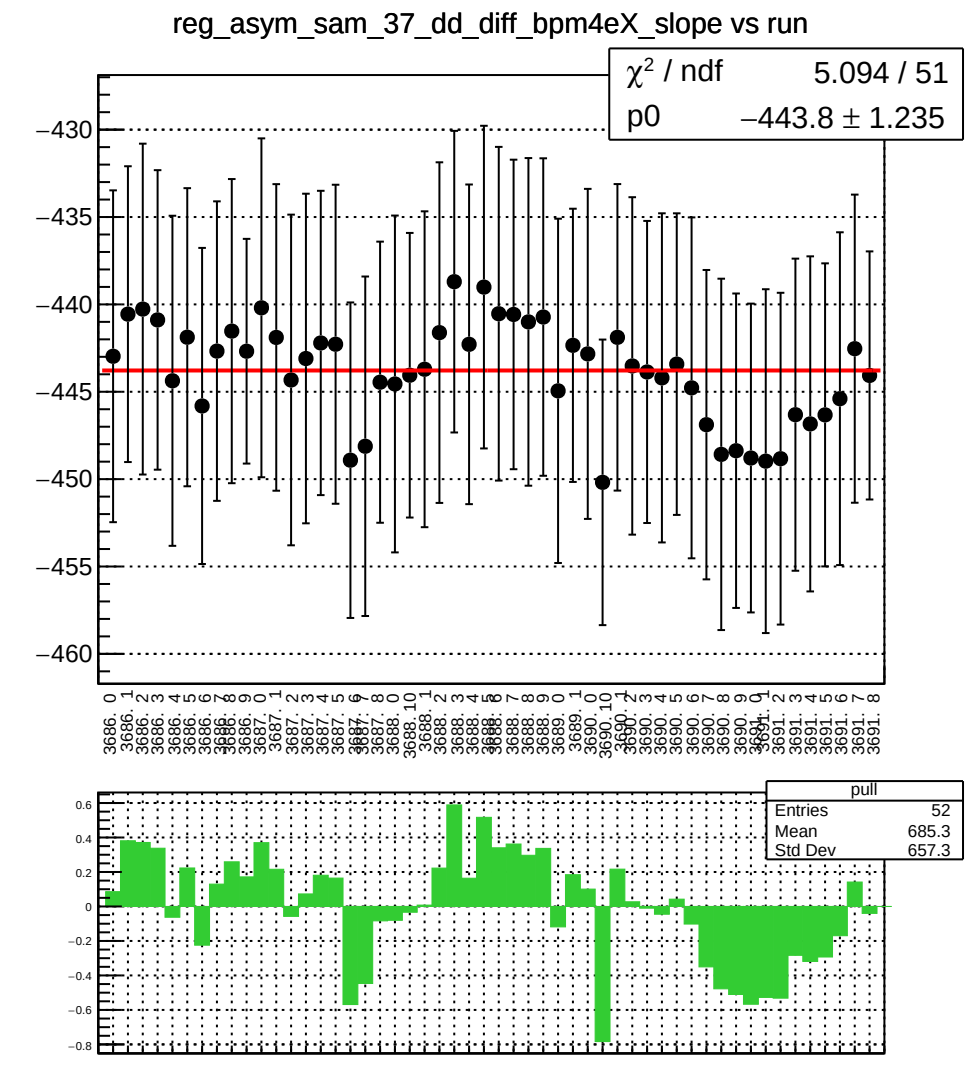

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 68.84 / 51
p0 0.8036 ± 0.09537
pull
Entries 52
Mean −314.4
Std Dev 332.9
pull1D
Entries 52
Mean 0.01509
Std Dev 1.15

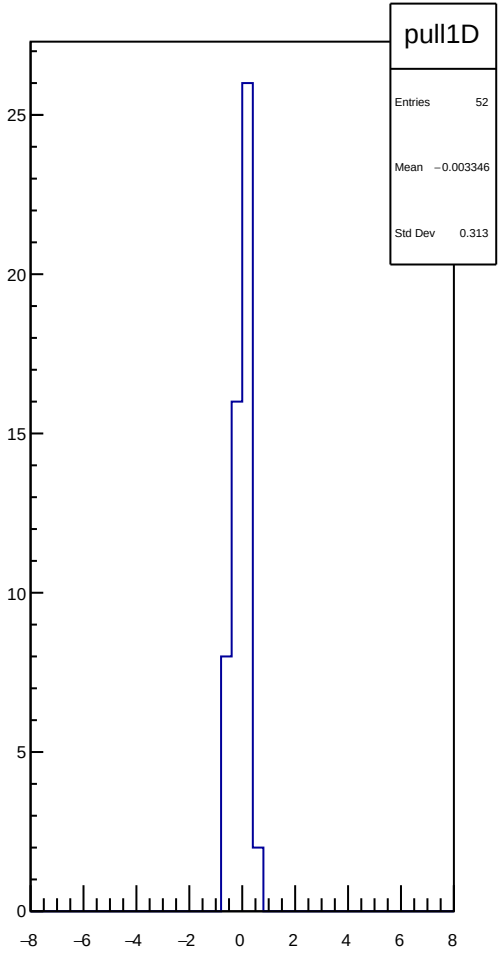

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.379 / 51
p0 49.56 ± 6.298
pull
Entries 52
Mean −128
Std Dev 172.4

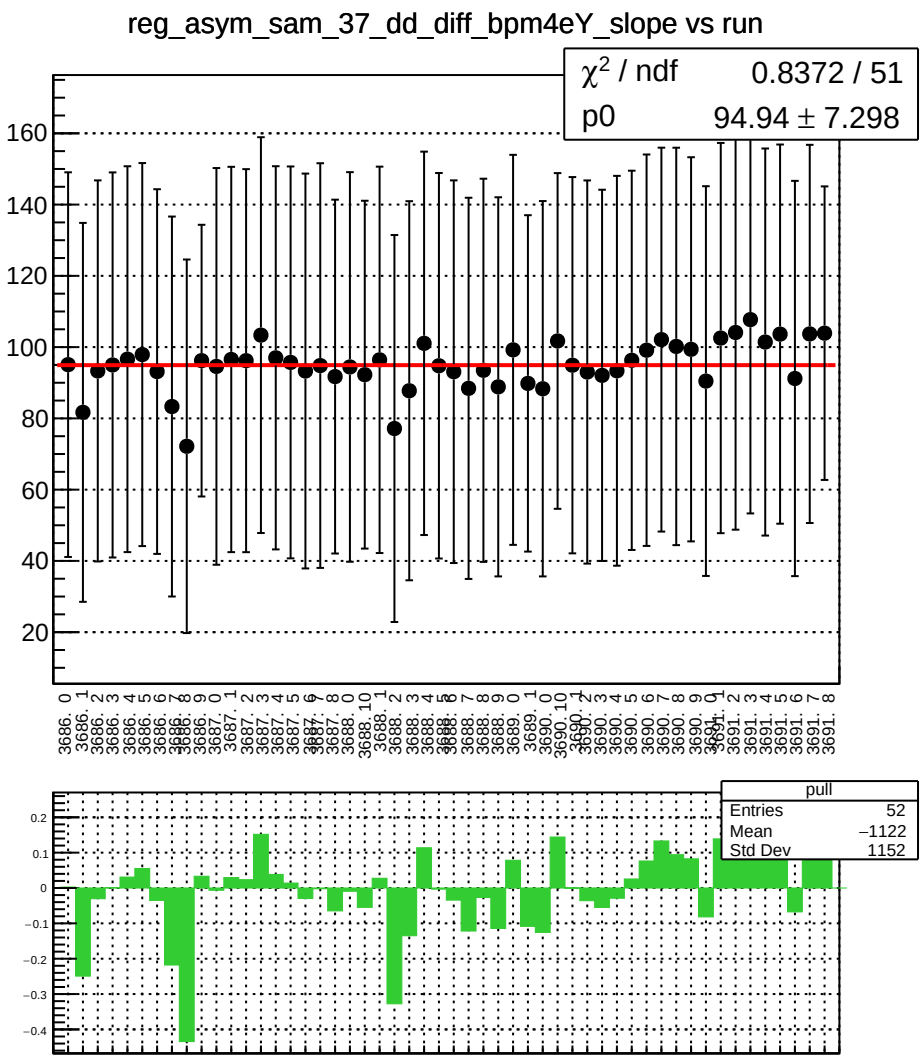

pull1D
Entries 52
Mean −0.0008798
Std Dev 0.1629

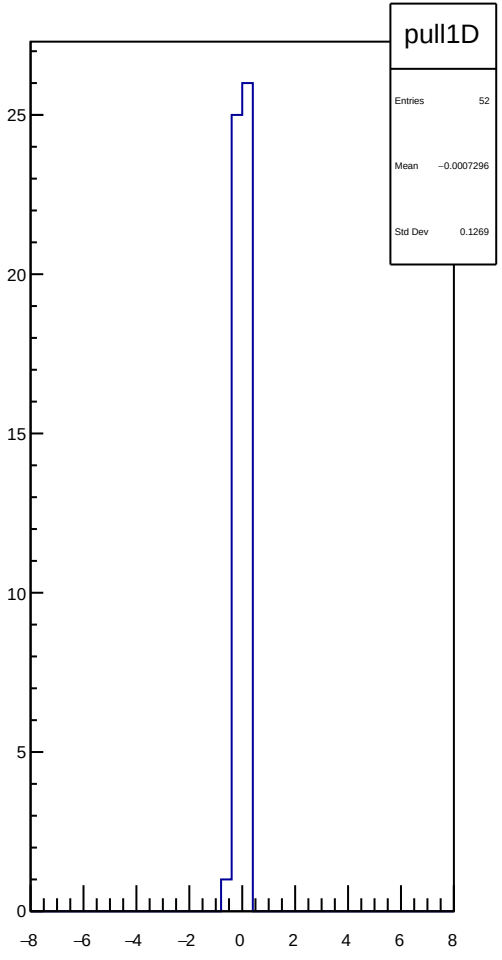

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8218 / 51
p0 −66.27 ± 4.67
−20
−40
−60
−80
−100
pull
Entries 52
Mean 3.273e+04
Std Dev 3.27e+04
0.4
0.3
0.2
0.1
0
−0.1
−0.2

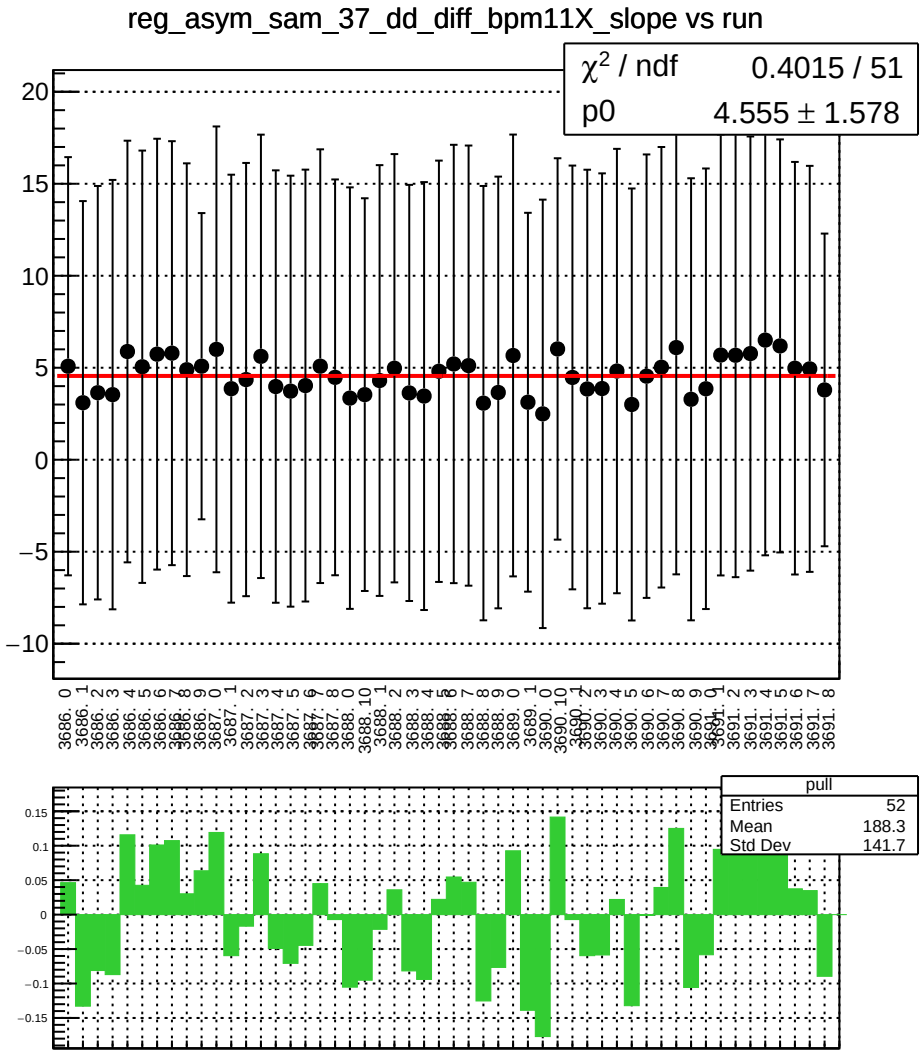

pull1D
Entries 52
Mean −2.435e−05
Std Dev 0.1257
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

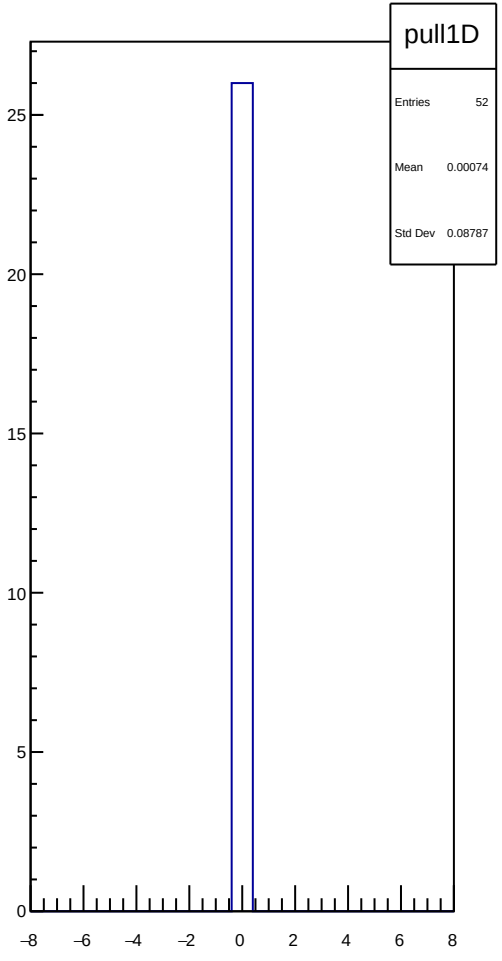

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.094 / 51
p0 −443.8 ± 1.235
pull
Entries 52
Mean 685.3
Std Dev 657.3

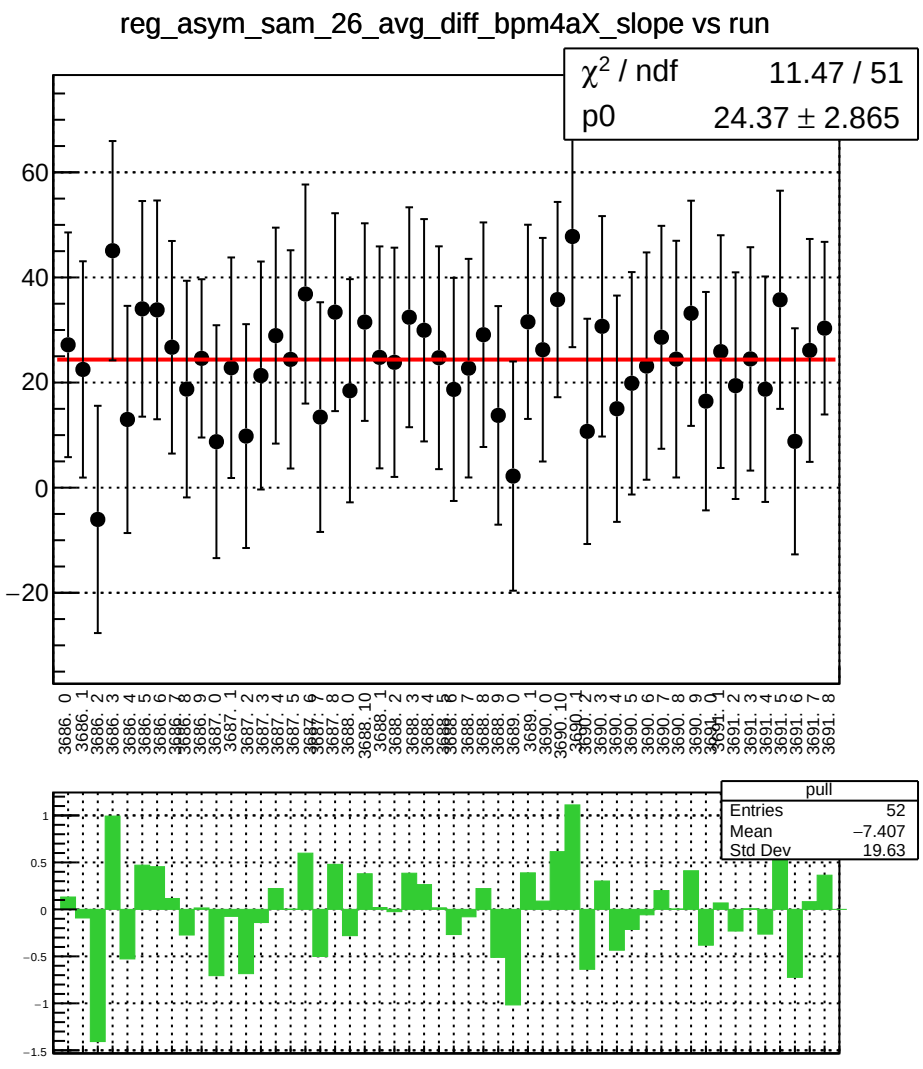

pull1D
Entries 52
Mean −0.003346
Std Dev 0.313

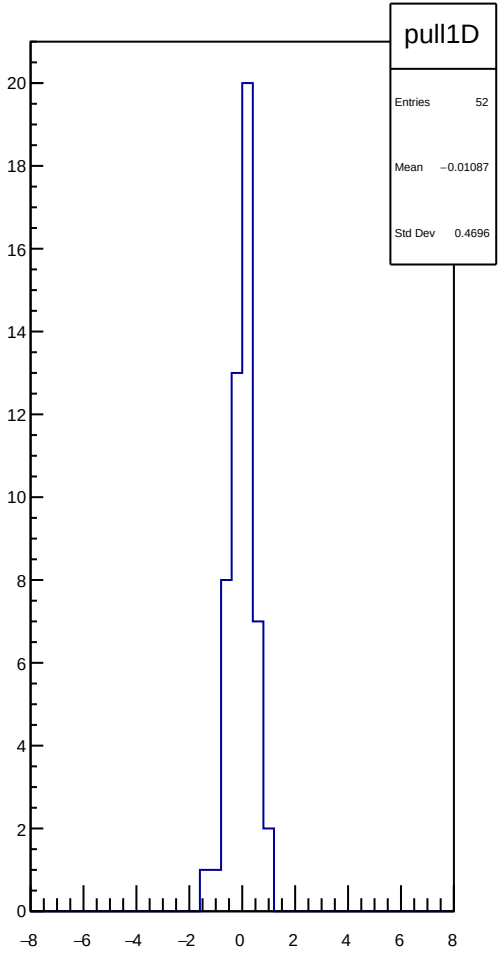

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.8372 / 51
p0 94.94 ± 7.298
pull
Entries 52
Mean −1122
Std Dev 1152

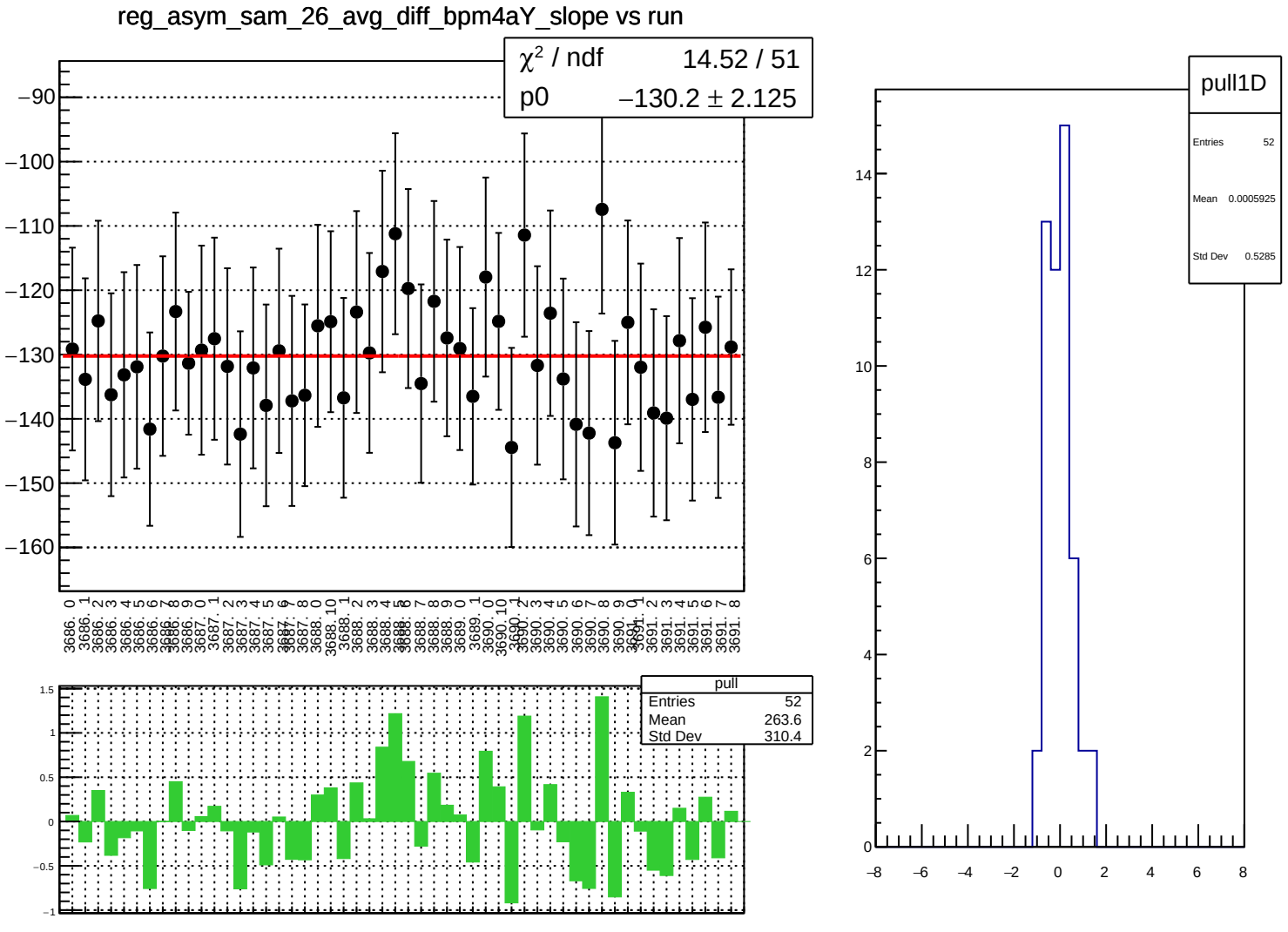

pull1D
Entries 52
Mean −0.0007296
Std Dev 0.1269

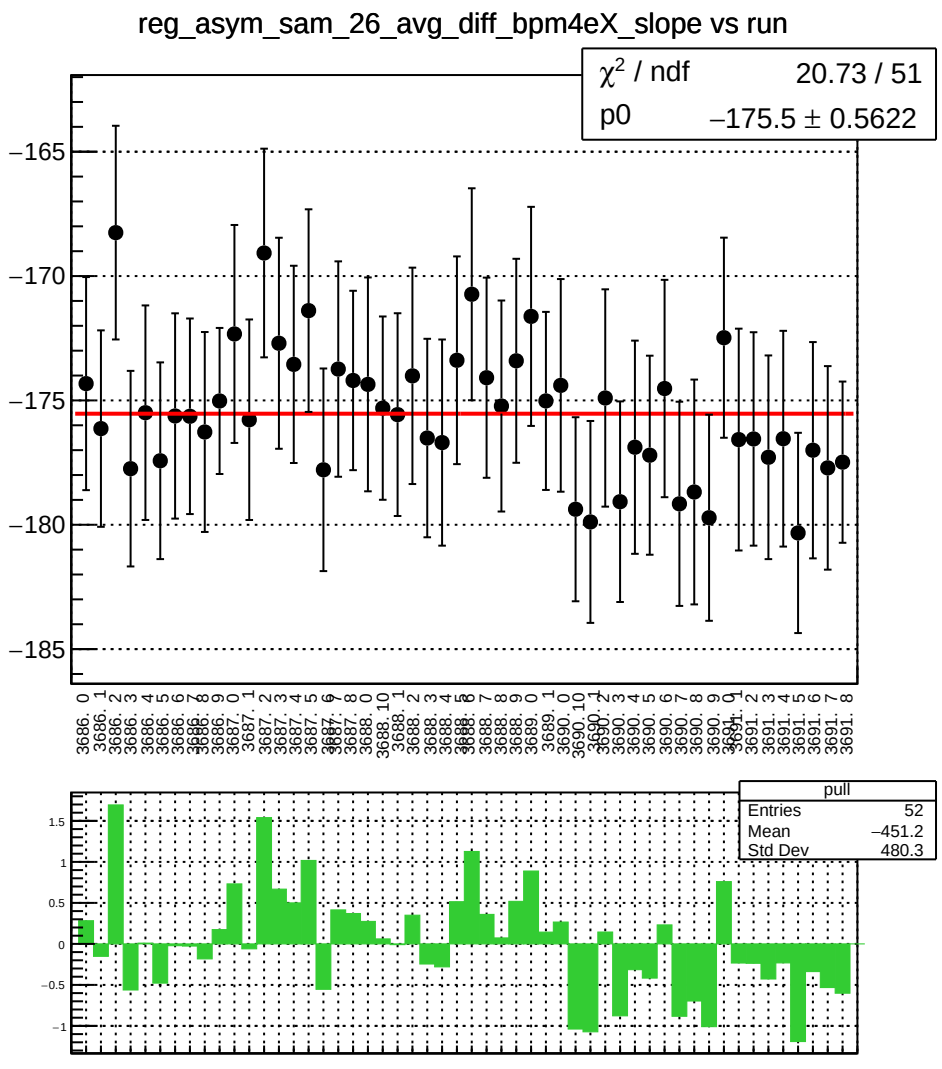

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 0.4015 / 51
p0 4.555 ± 1.578
pull
Entries 52
Mean 188.3
Std Dev 141.7

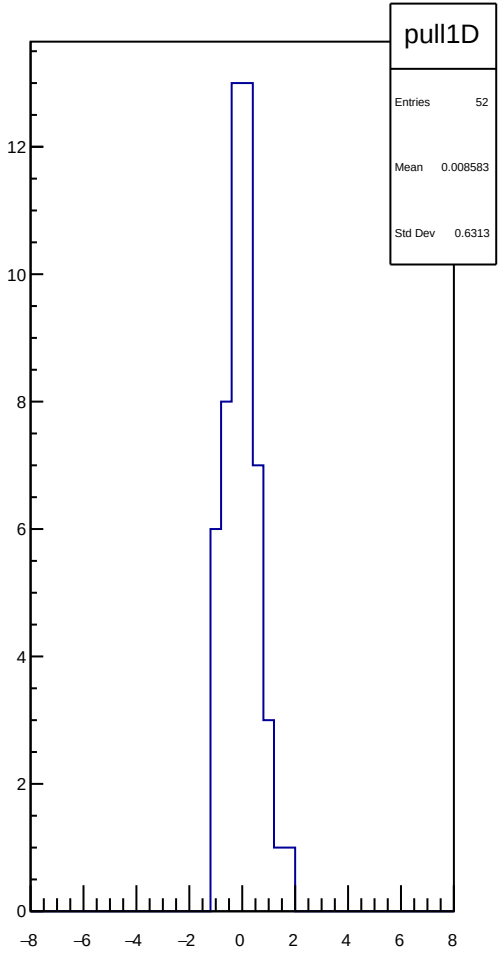

pull1D
Entries 52
Mean 0.00074
Std Dev 0.08787

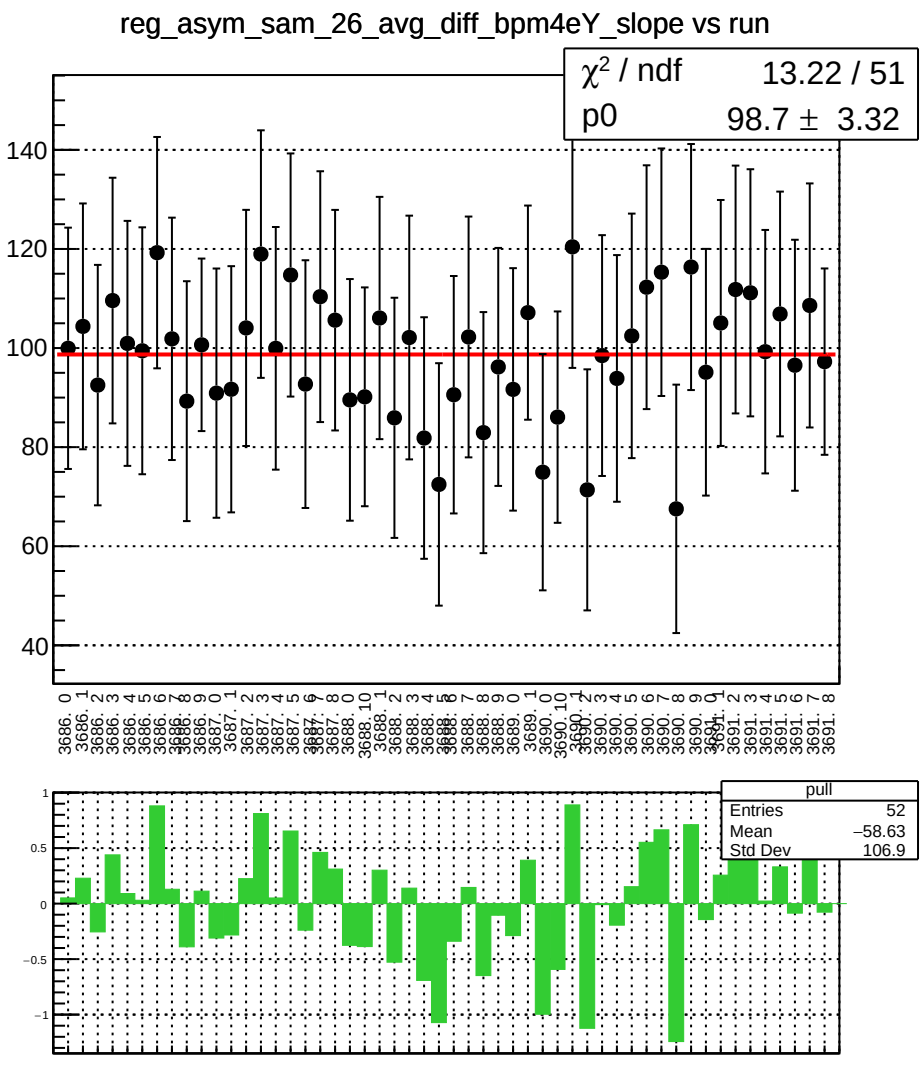

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.47 / 51
p0 24.37 ± 2.865
pull
Entries 52
Mean −7.407
Std Dev 19.63

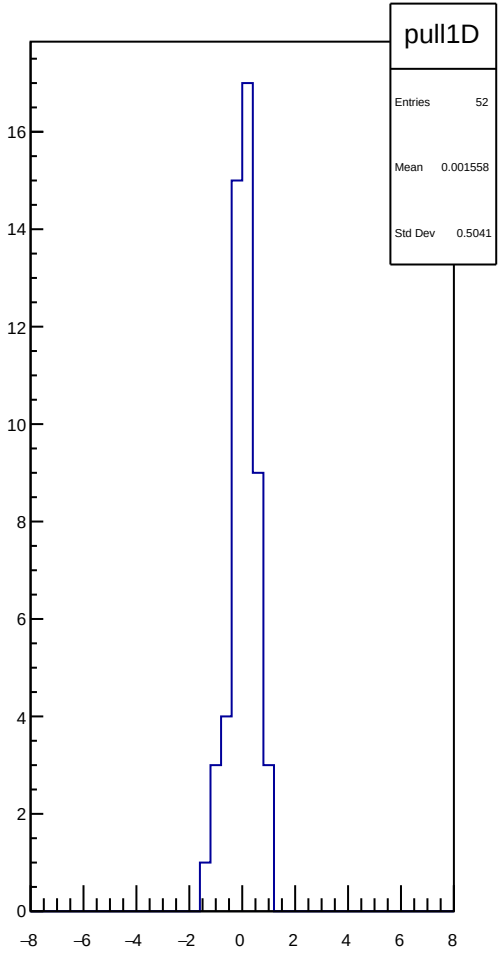

pull1D
Entries 52
Mean −0.01087
Std Dev 0.4696

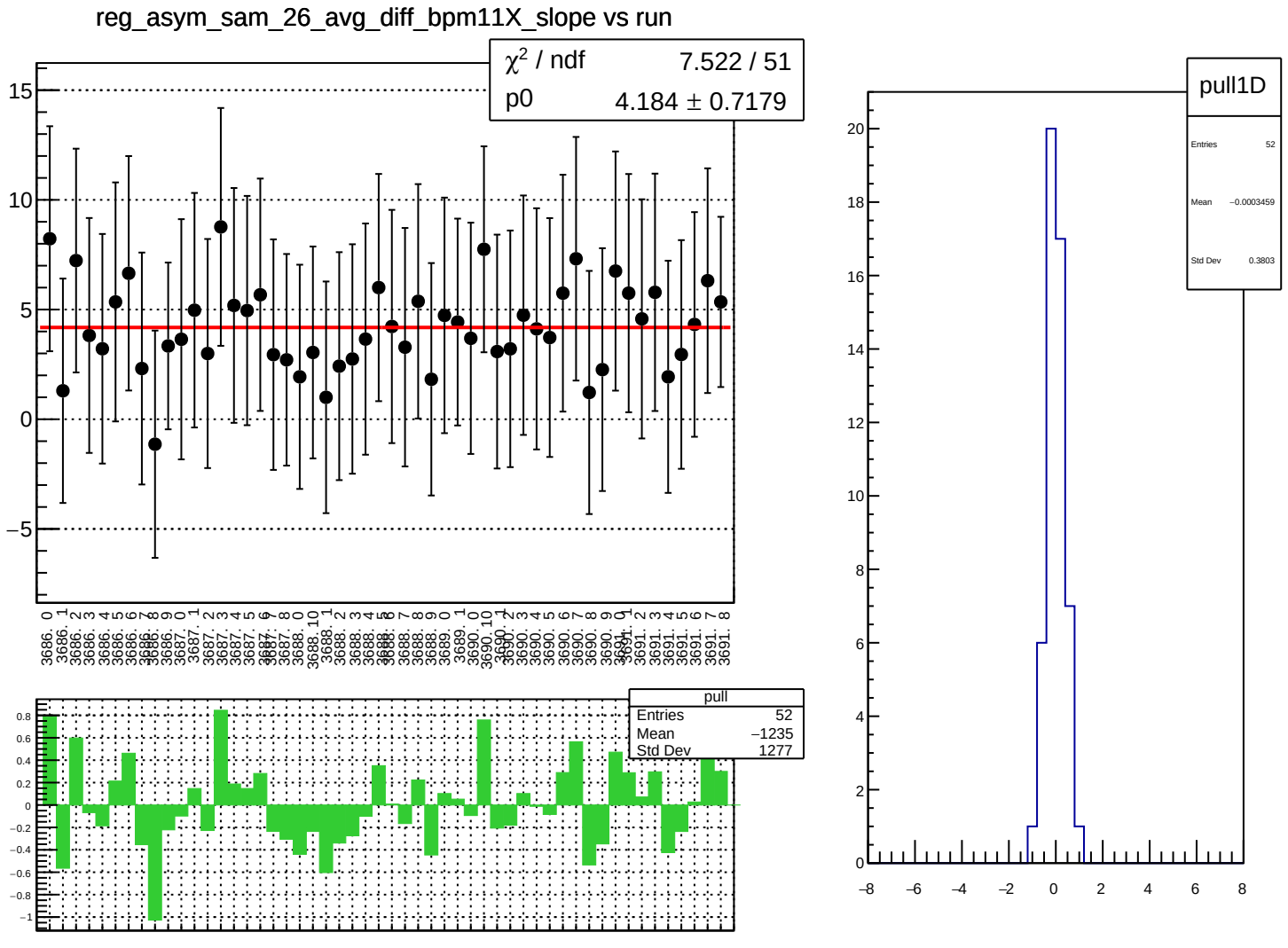

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.52 / 51
p0 −130.2 ± 2.125
pull
Entries 52
Mean 263.6
Std Dev 310.4
pull1D
Entries 52
Mean 0.0005925
Std Dev 0.5285

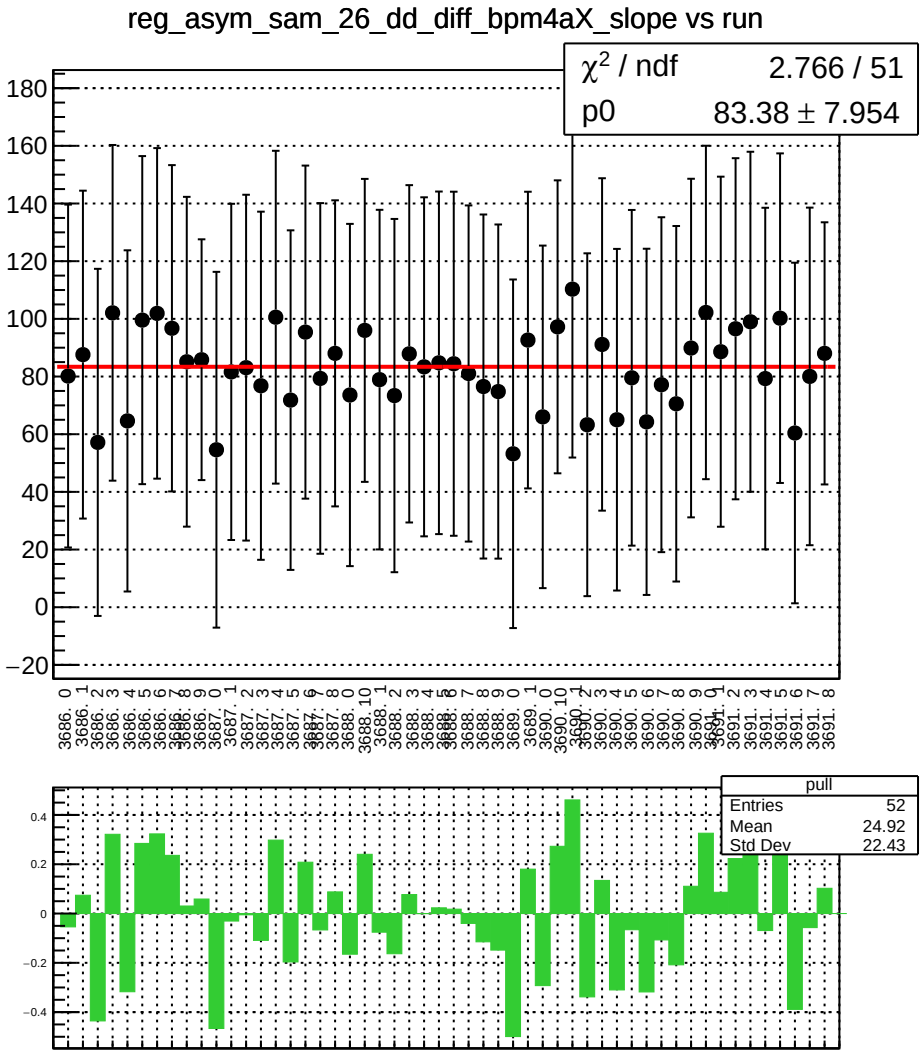

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.73 / 51
p0 −175.5 ± 0.5622
−165
−170
−175
−180
−185
pull
Entries 52
Mean −451.2
Std Dev 480.3
1.5
1
0.5
0
−0.5
−1

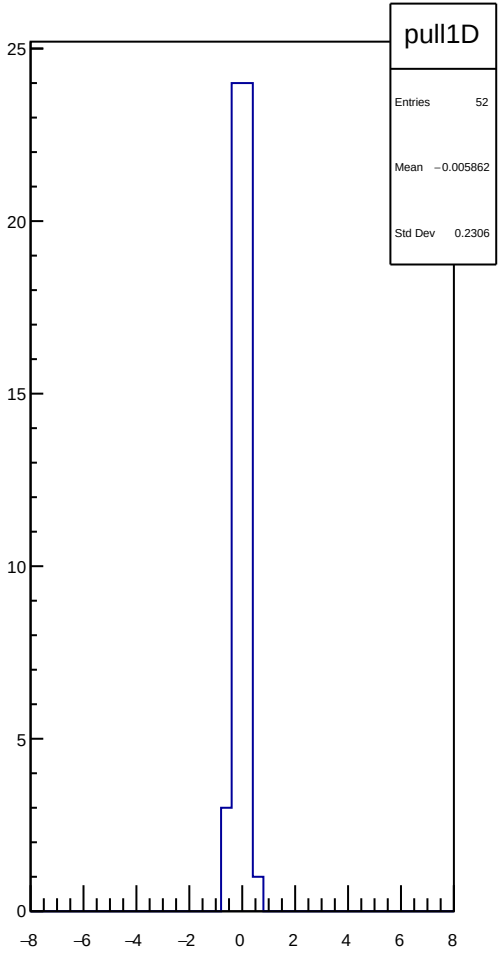

pull1D
Entries 52
Mean 0.008583
Std Dev 0.6313
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

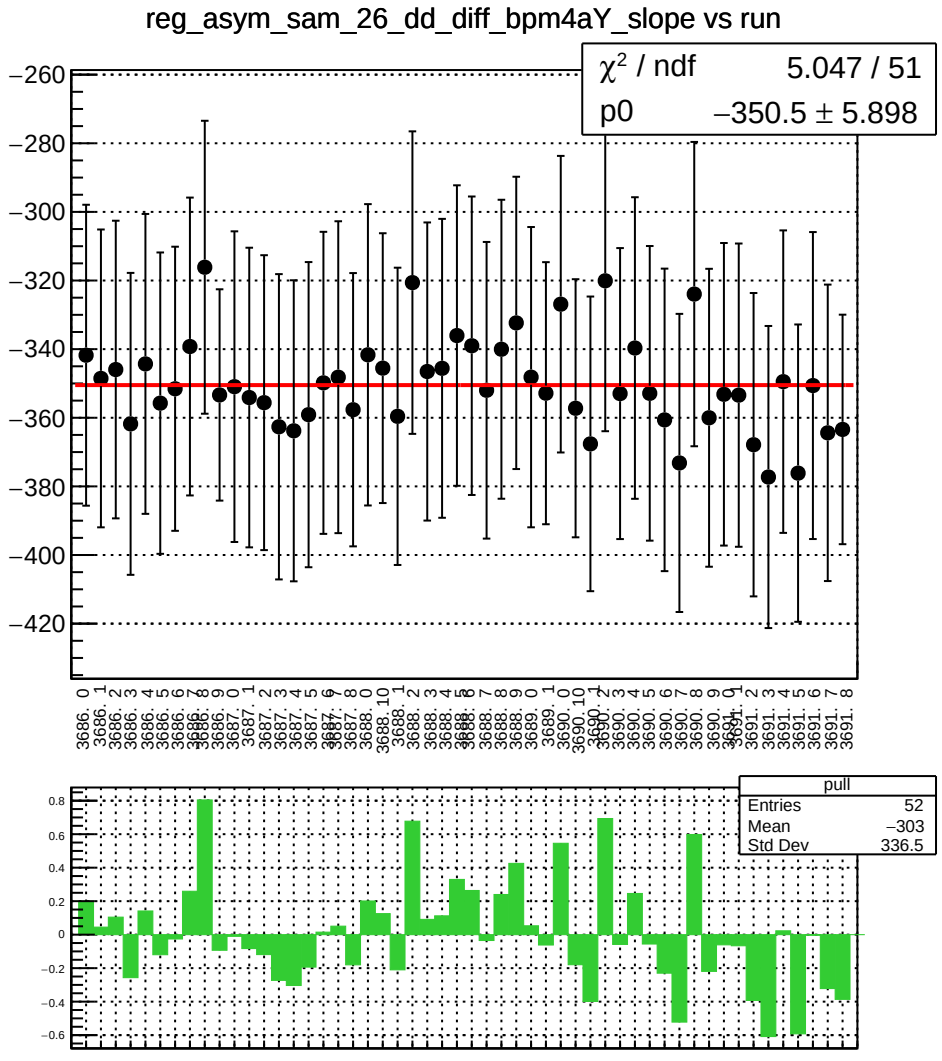

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.22 / 51
p0 98.7 ± 3.32
pull
Entries 52
Mean −58.63
Std Dev 106.9

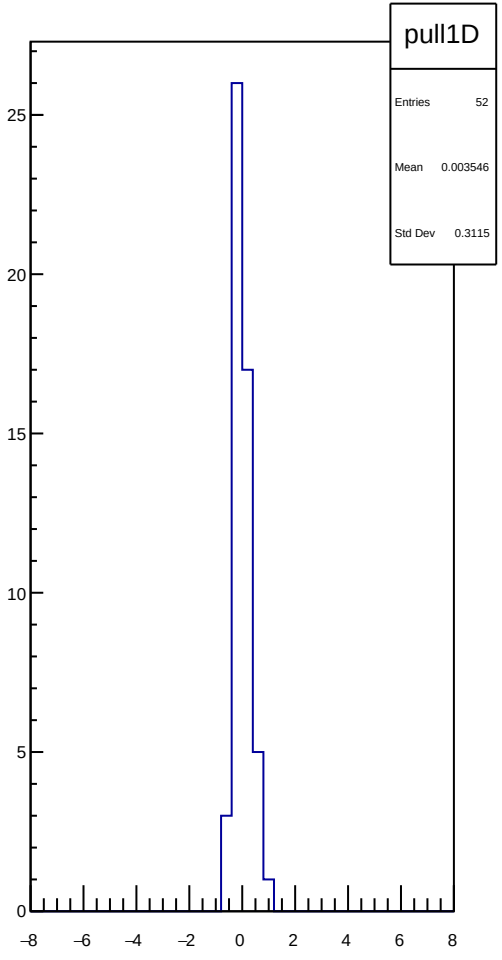

pull1D
Entries 52
Mean 0.001558
Std Dev 0.5041

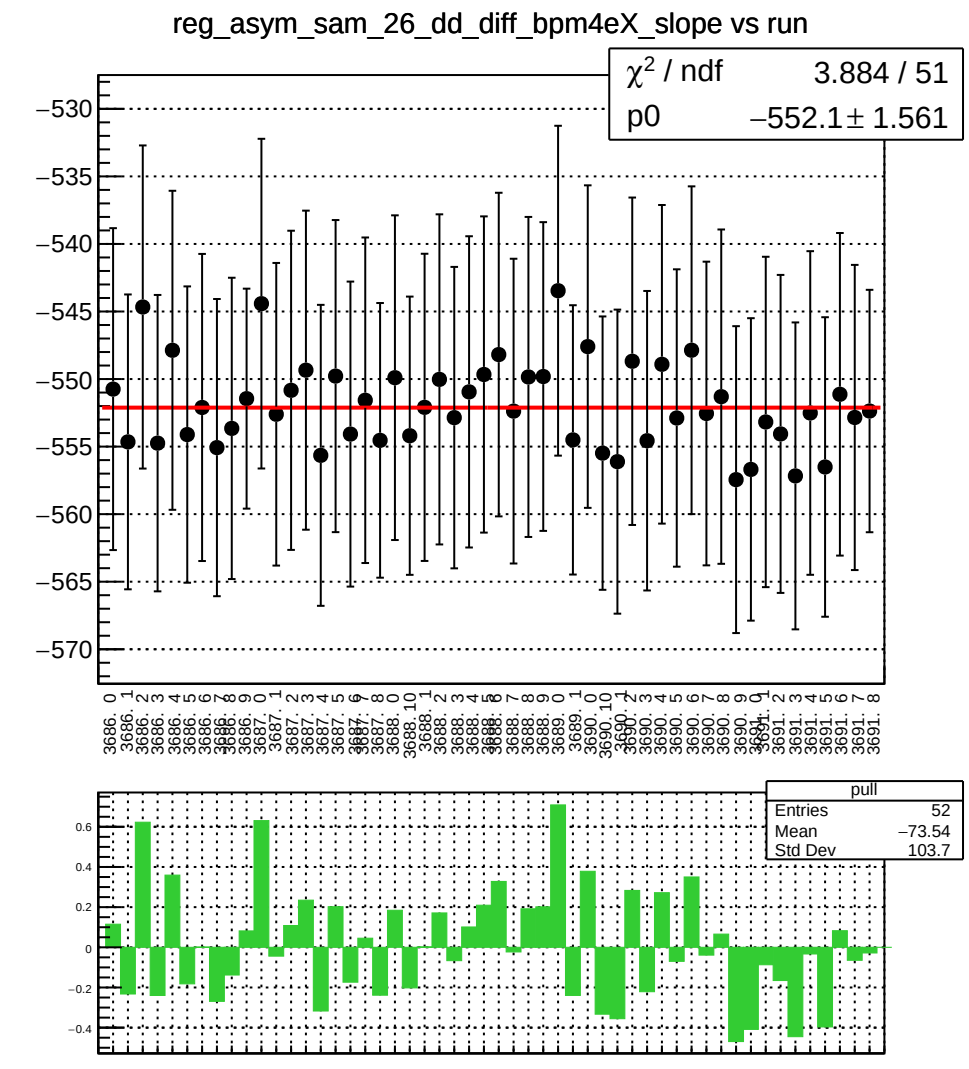

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 7.522 / 51
p0 4.184 ± 0.7179
pull
Entries 52
Mean −1235
Std Dev 1277
pull1D
Entries 52
Mean −0.0003459
Std Dev 0.3803

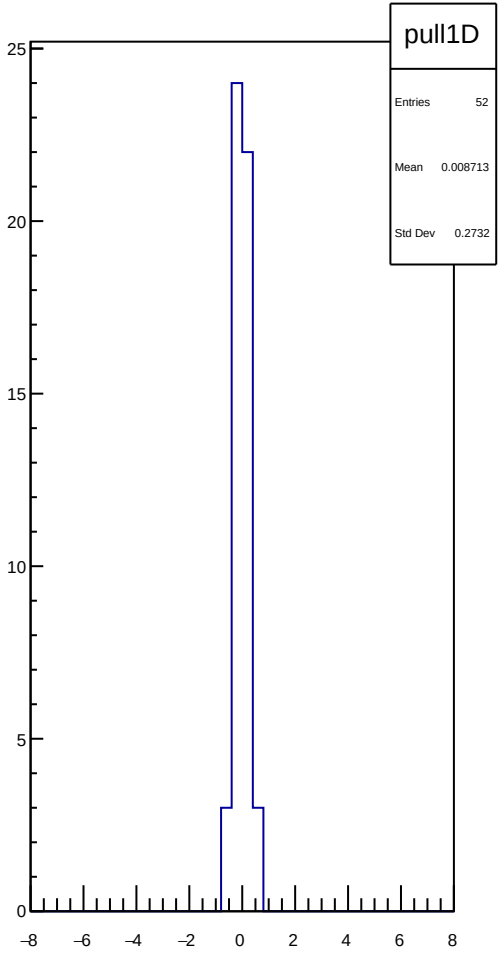

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.766 / 51
p0 83.38 ± 7.954
pull
Entries 52
Mean 24.92
Std Dev 22.43

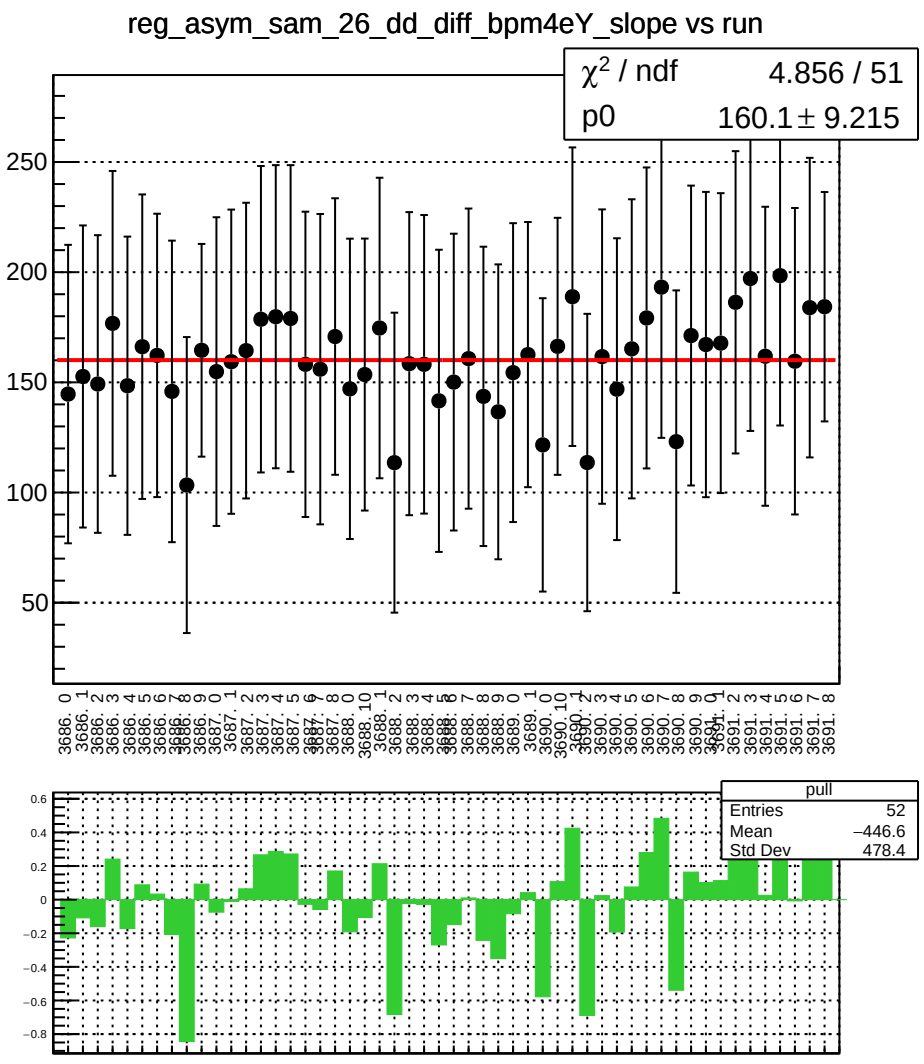

pull1D
Entries 52
Mean −0.005862
Std Dev 0.2306

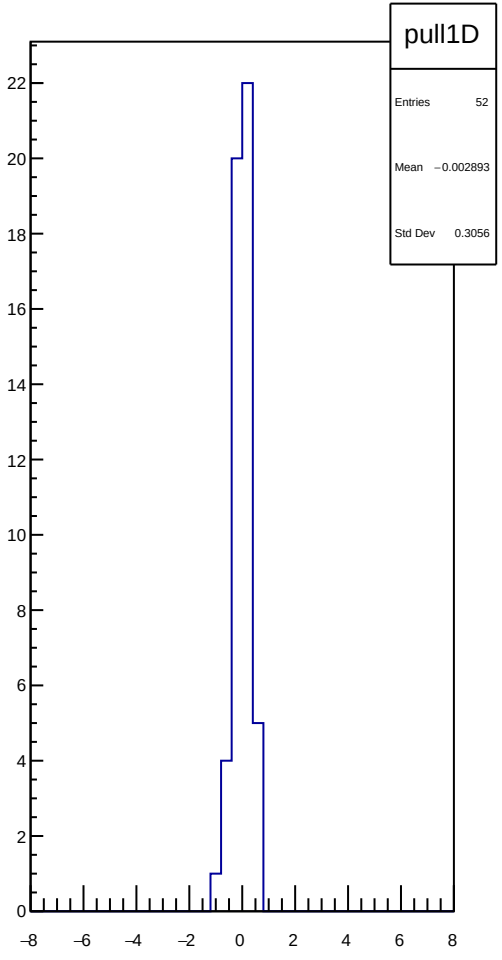

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.047 / 51
p0 −350.5 ± 5.898
pull
Entries 52
Mean −303
Std Dev 336.5

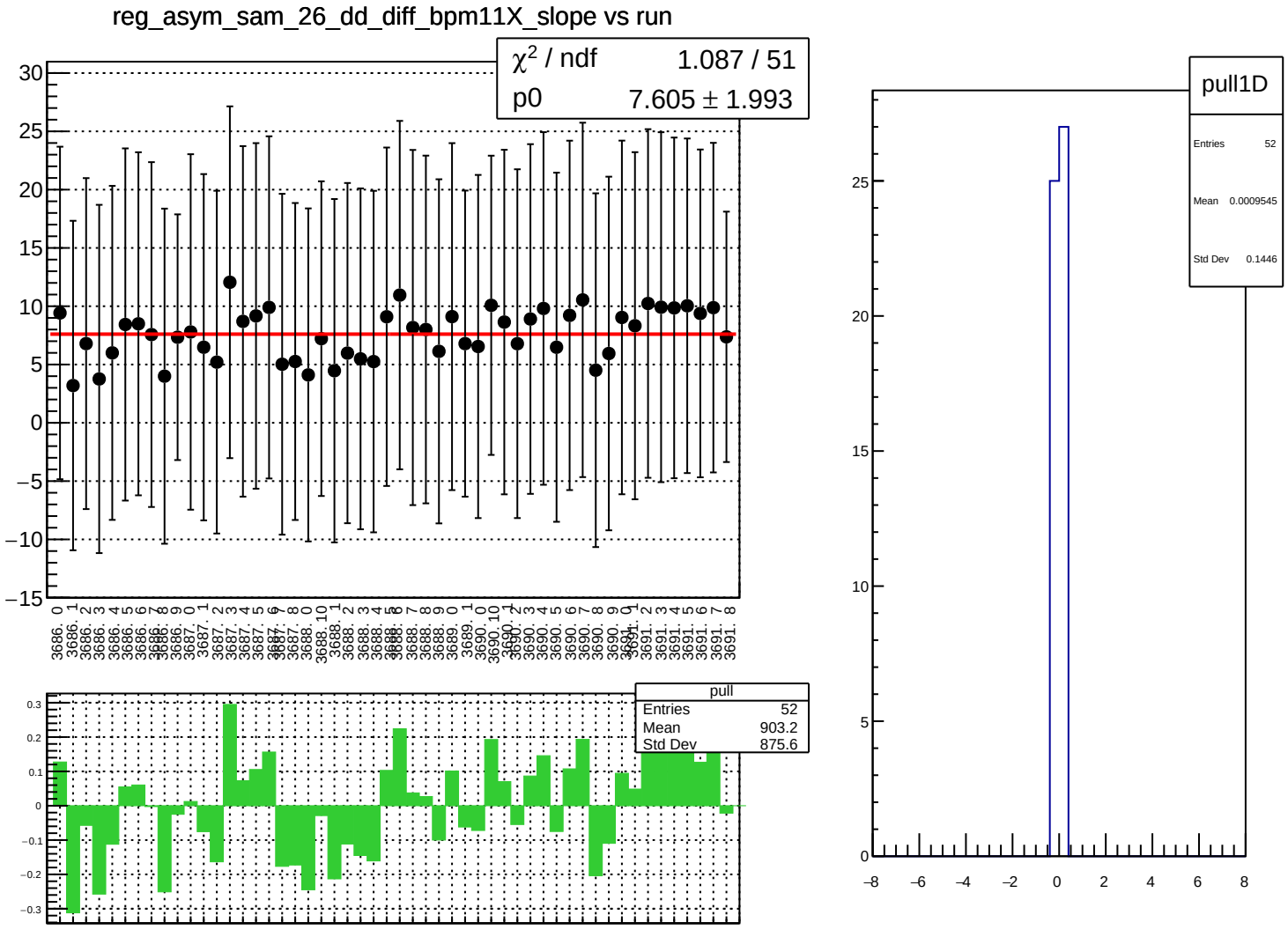

pull1D
Entries 52
Mean 0.003546
Std Dev 0.3115

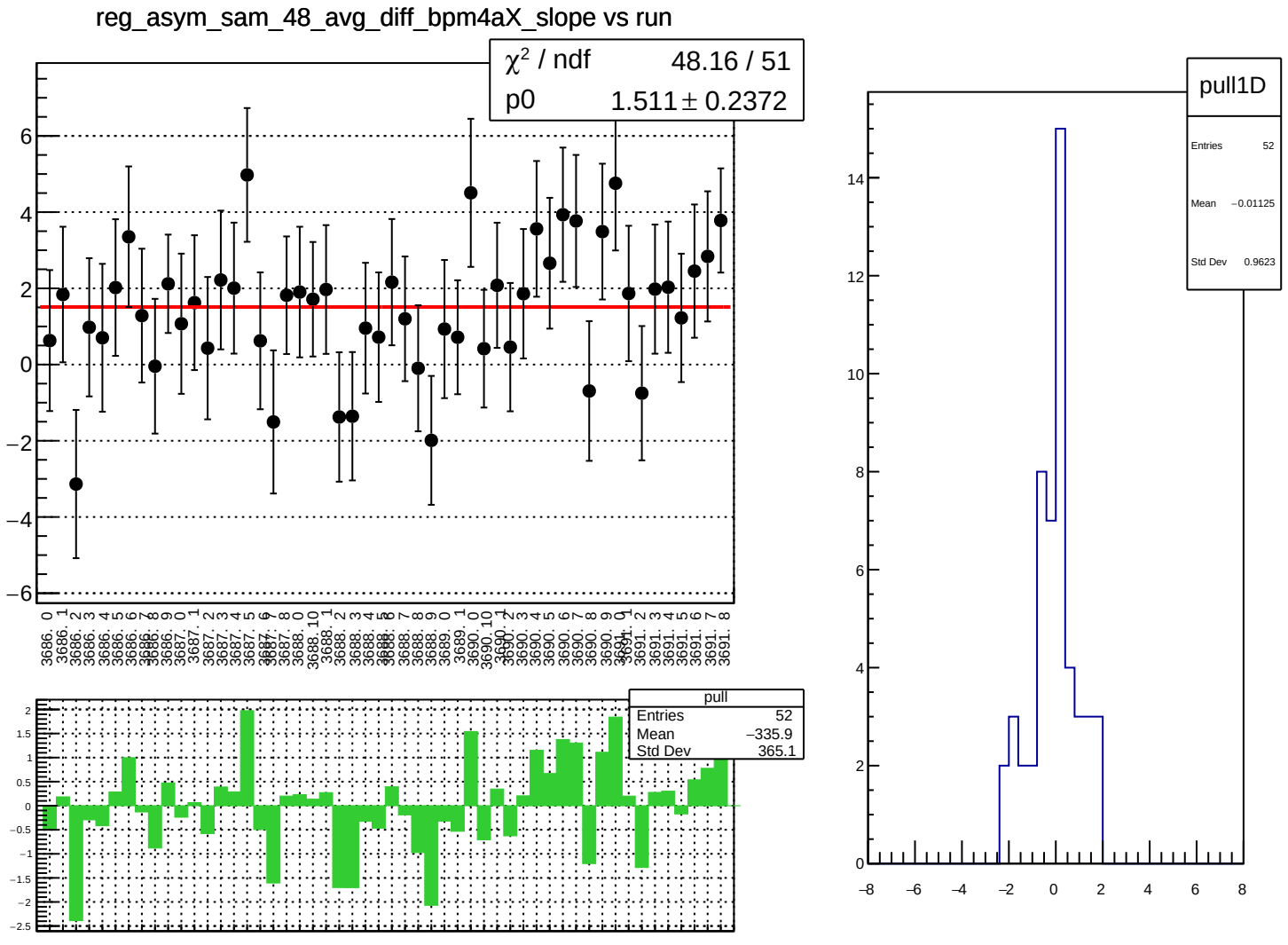

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.884 / 51
p0 −552.1 ± 1.561
pull
Entries 52
Mean −73.54
Std Dev 103.7

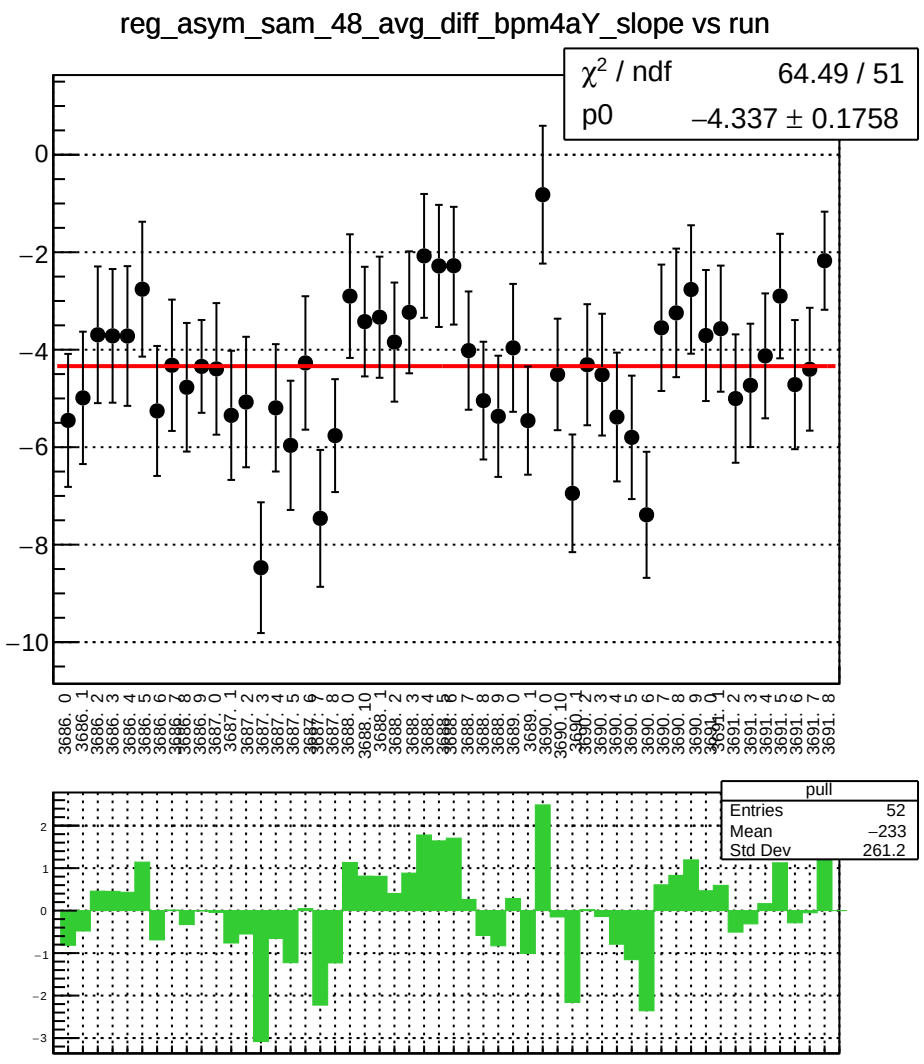

pull1D
Entries 52
Mean 0.008713
Std Dev 0.2732

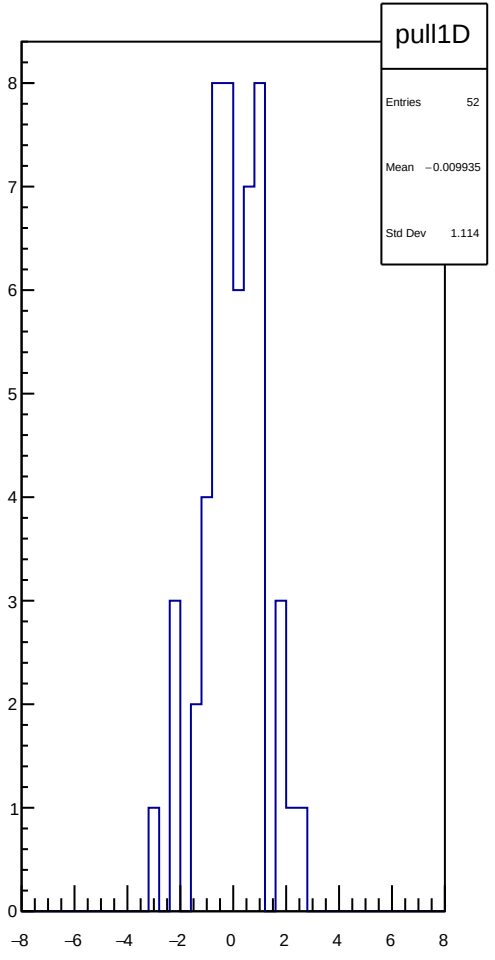

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.856 / 51
p0 160.1 ± 9.215
250
200
150
100
50
pull
Entries 52
Mean −446.6
Std Dev 478.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

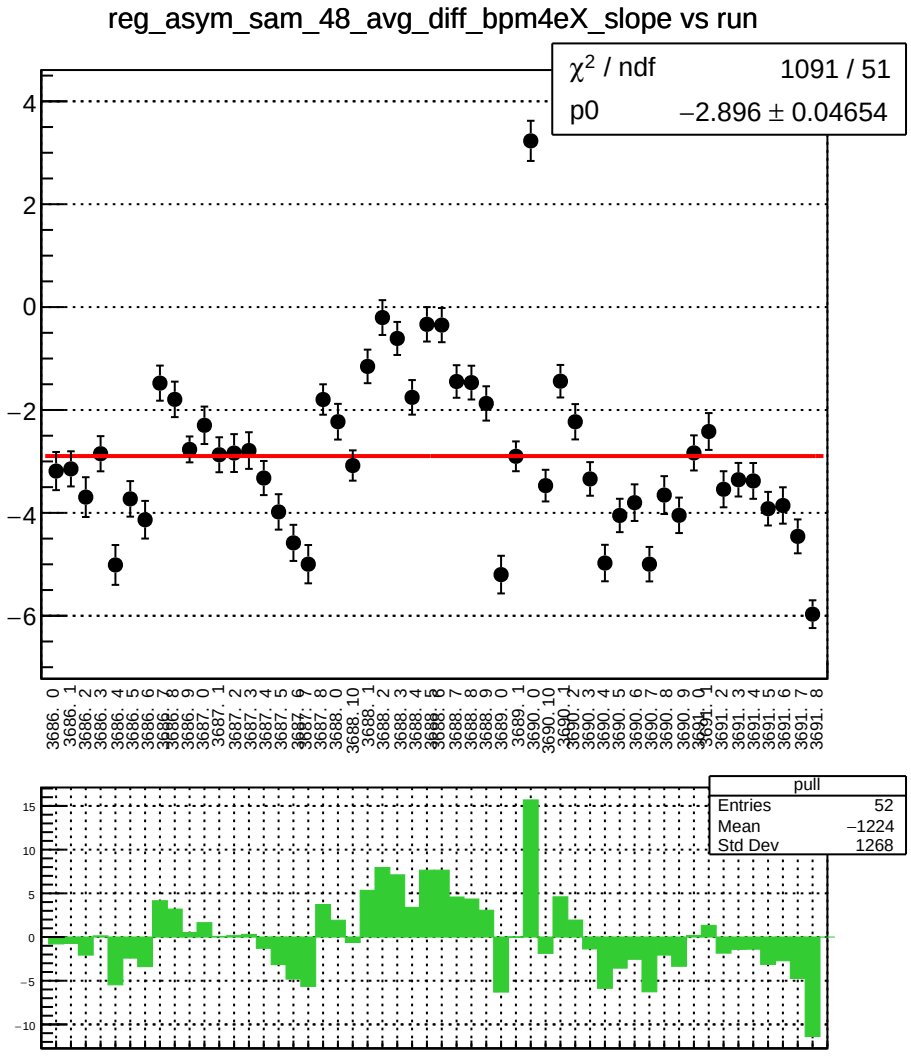

pull1D
Entries 52
Mean −0.002893
Std Dev 0.3056
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

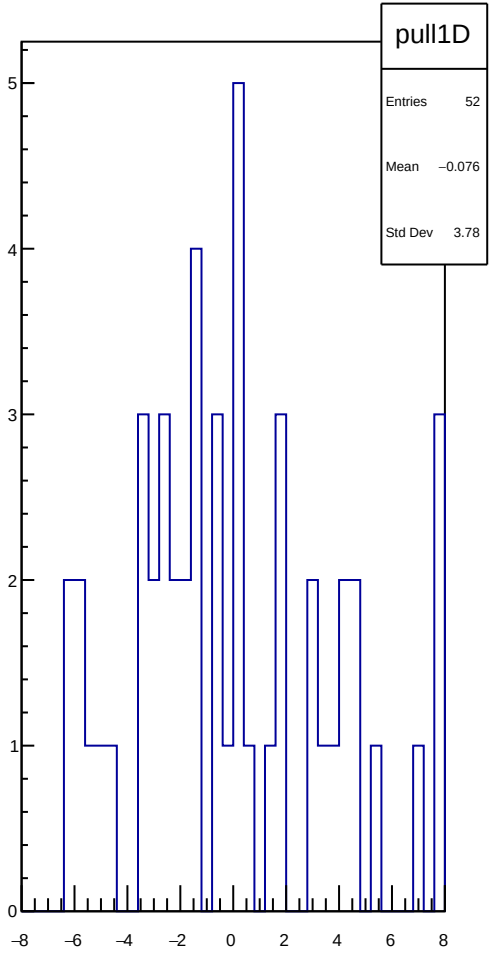

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 1.087 / 51
p0 7.605 ± 1.993
pull
Entries 52
Mean 903.2
Std Dev 875.6
pull1D
Entries 52
Mean 0.0009545
Std Dev 0.1446

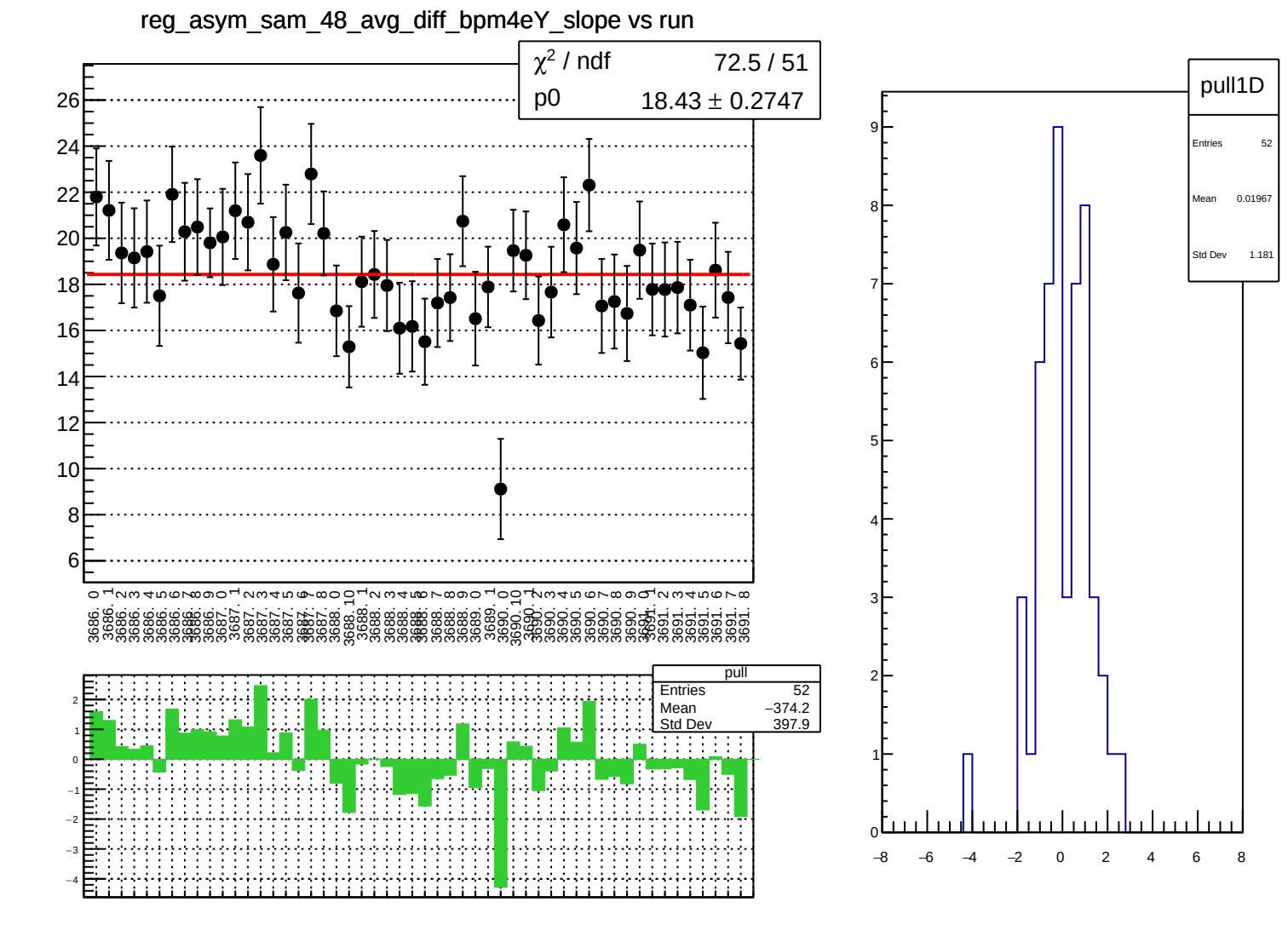

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 48.16 / 51
p0 1.511 ± 0.2372
pull
Entries 52
Mean −335.9
Std Dev 365.1
pull1D
Entries 52
Mean −0.01125
Std Dev 0.9623

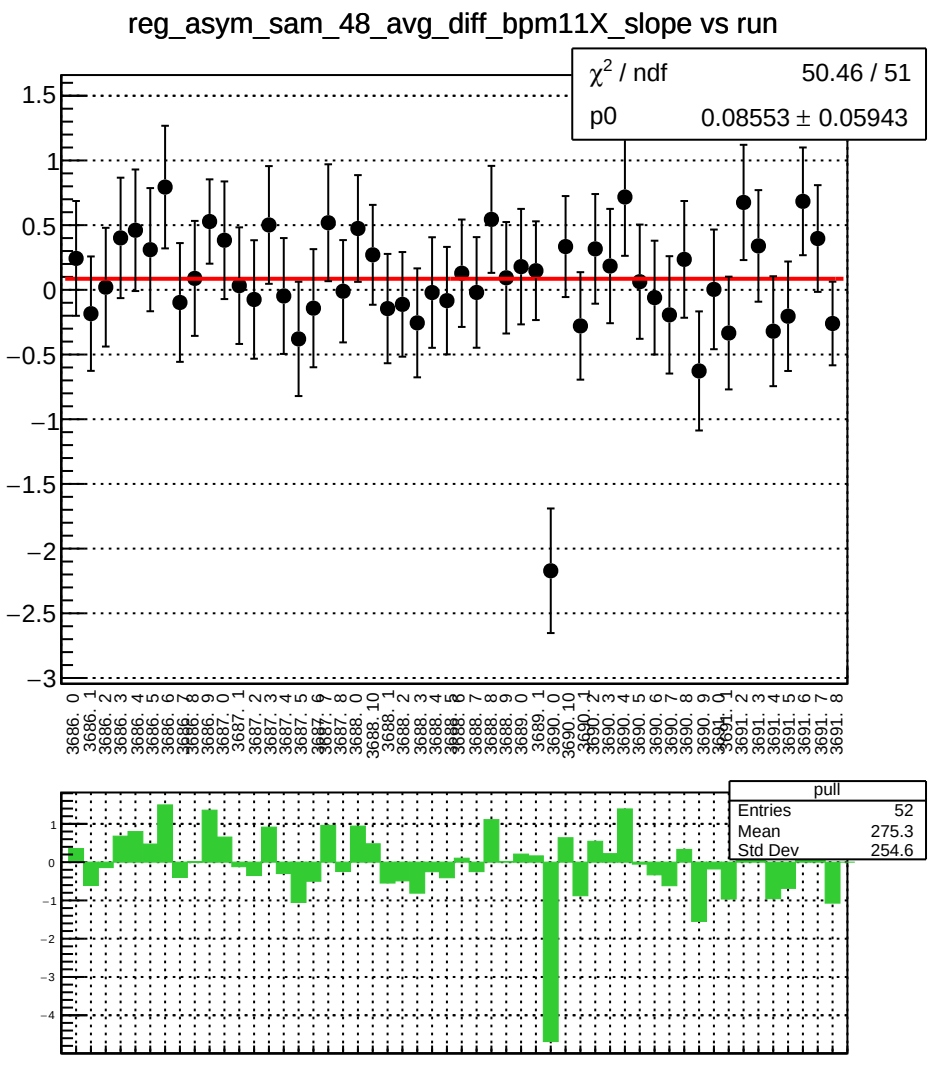

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.49 / 51
p0 −4.337 ± 0.1758
pull
Entries 52
Mean −233
Std Dev 261.2

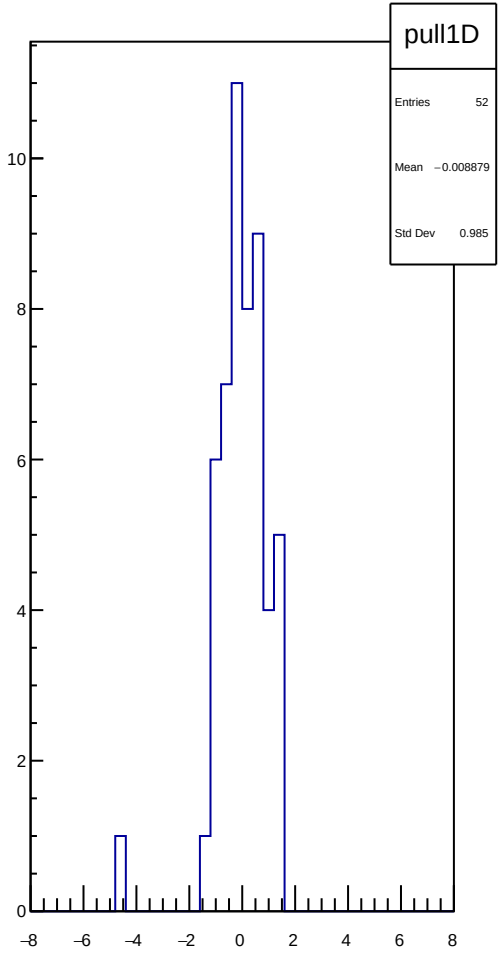

pull1D
Entries 52
Mean −0.009935
Std Dev 1.114

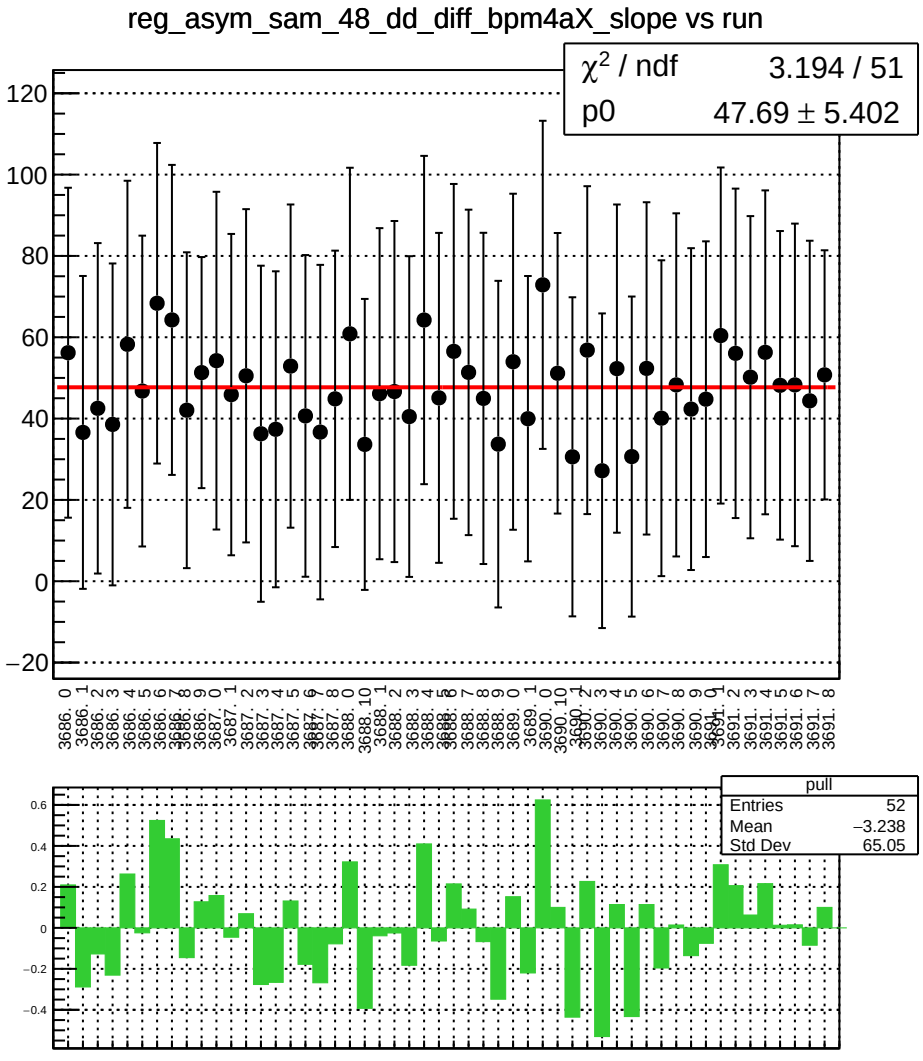

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1091 / 51
p0 −2.896 ± 0.04654
pull
Entries 52
Mean −1224
Std Dev 1268

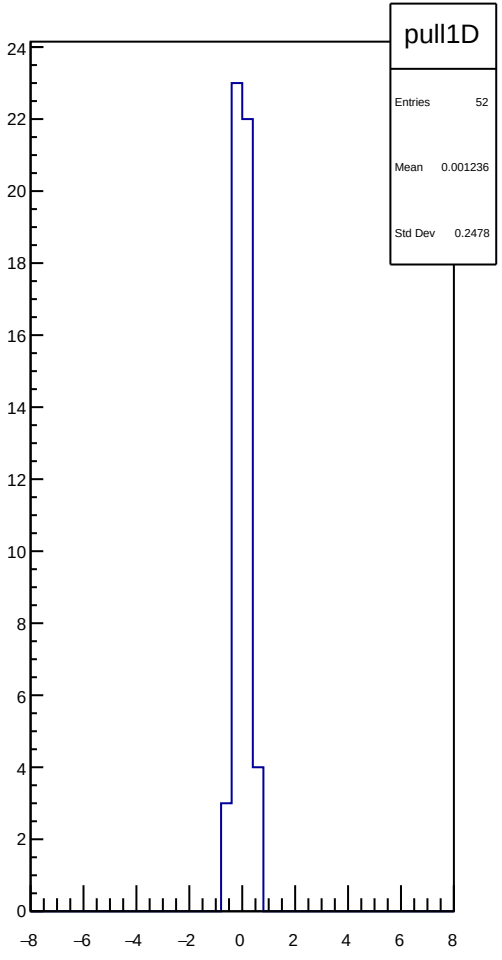

pull1D
Entries 52
Mean −0.076
Std Dev 3.78

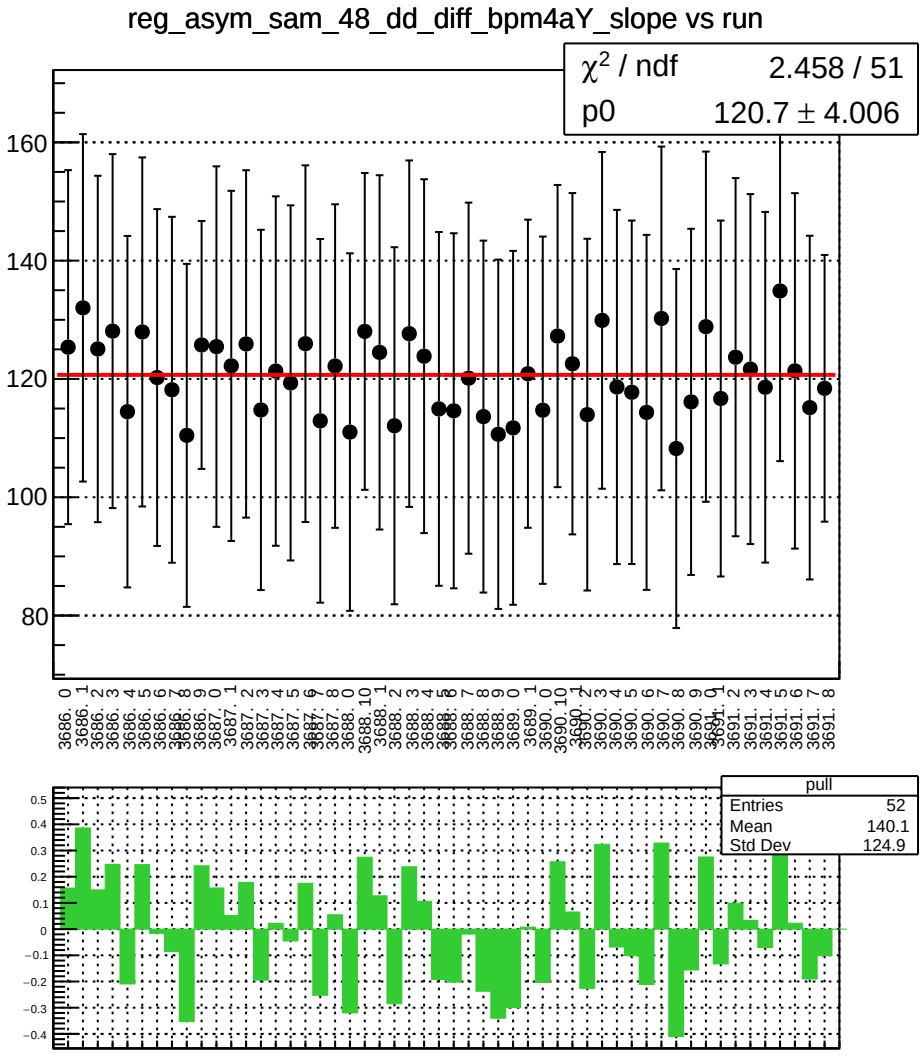

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 72.5 / 51
p0 18.43 ± 0.2747
pull
Entries 52
Mean −374.2
Std Dev 397.9
pull1D
Entries 52
Mean 0.01967
Std Dev 1.181

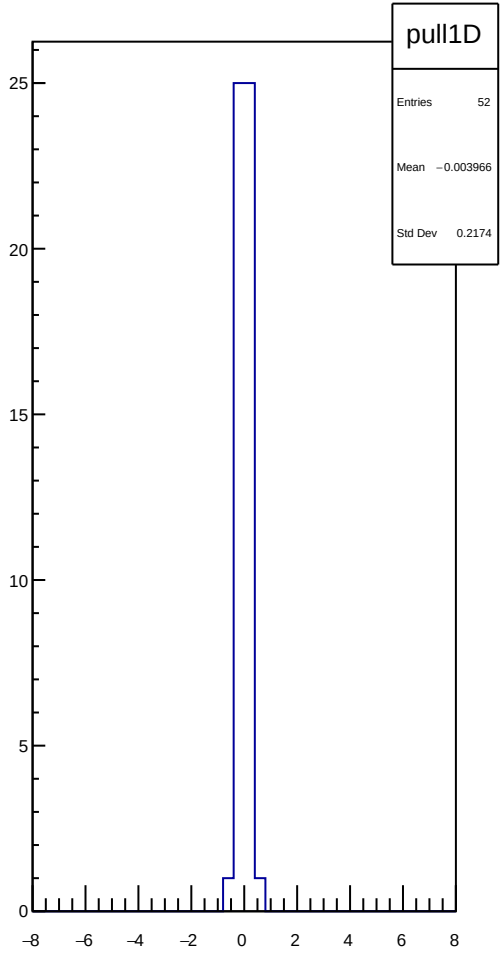

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 50.46 / 51
p0 0.08553 ± 0.05943
pull
Entries 52
Mean 275.3
Std Dev 254.6

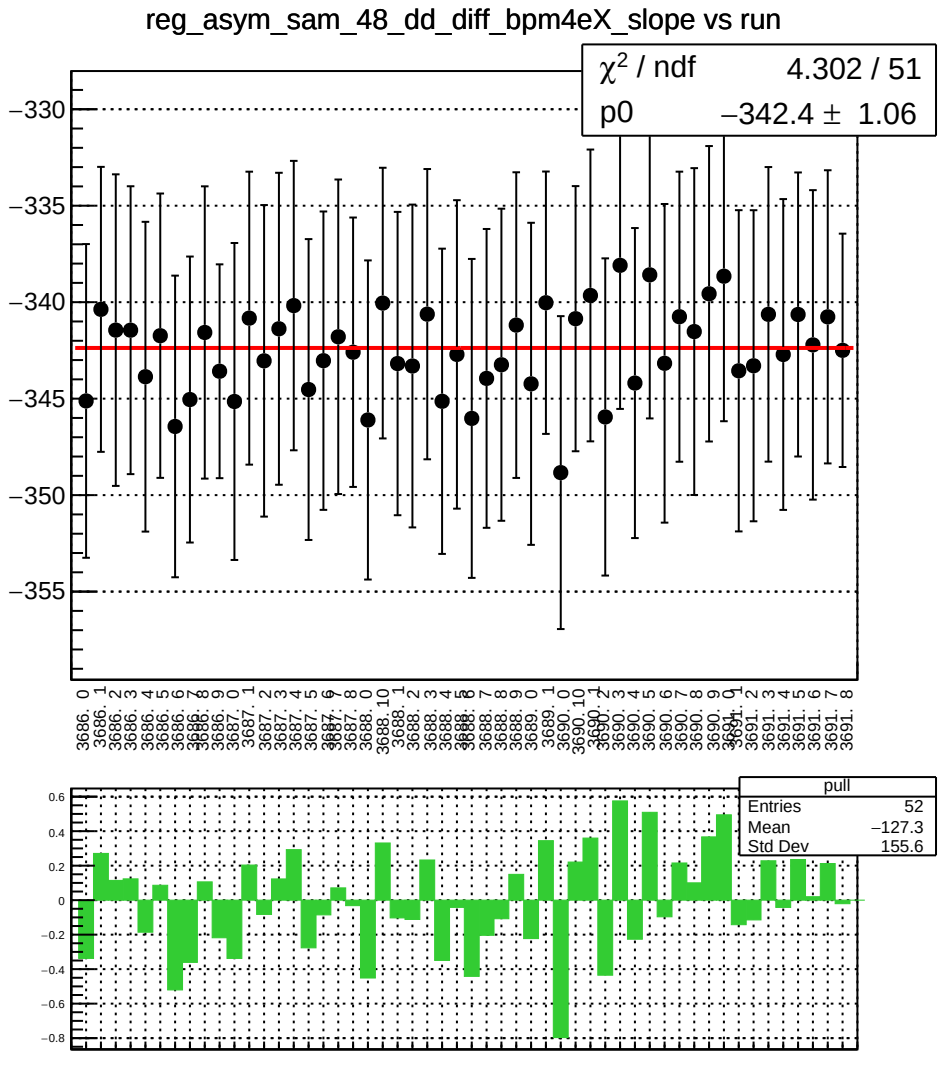

pull1D
Entries 52
Mean −0.008879
Std Dev 0.985

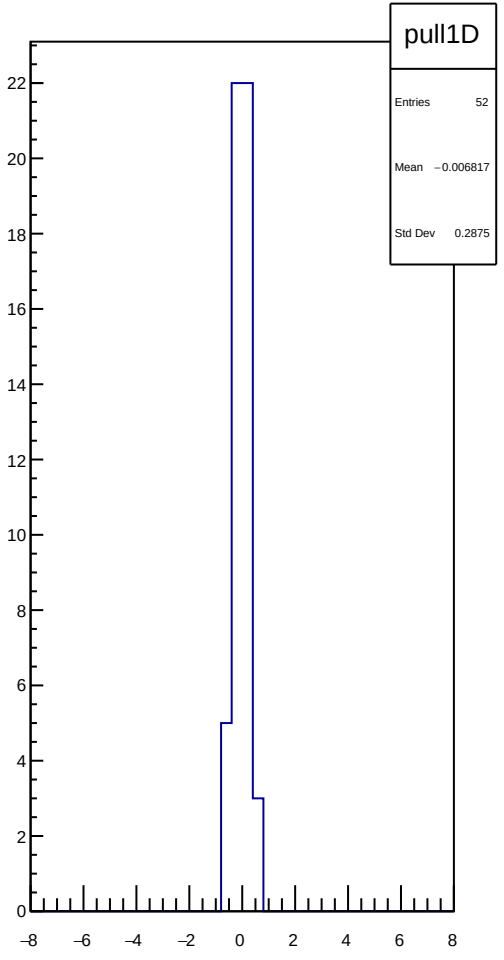

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.194 / 51
p0 47.69 ± 5.402
pull
Entries 52
Mean −3.238
Std Dev 65.05

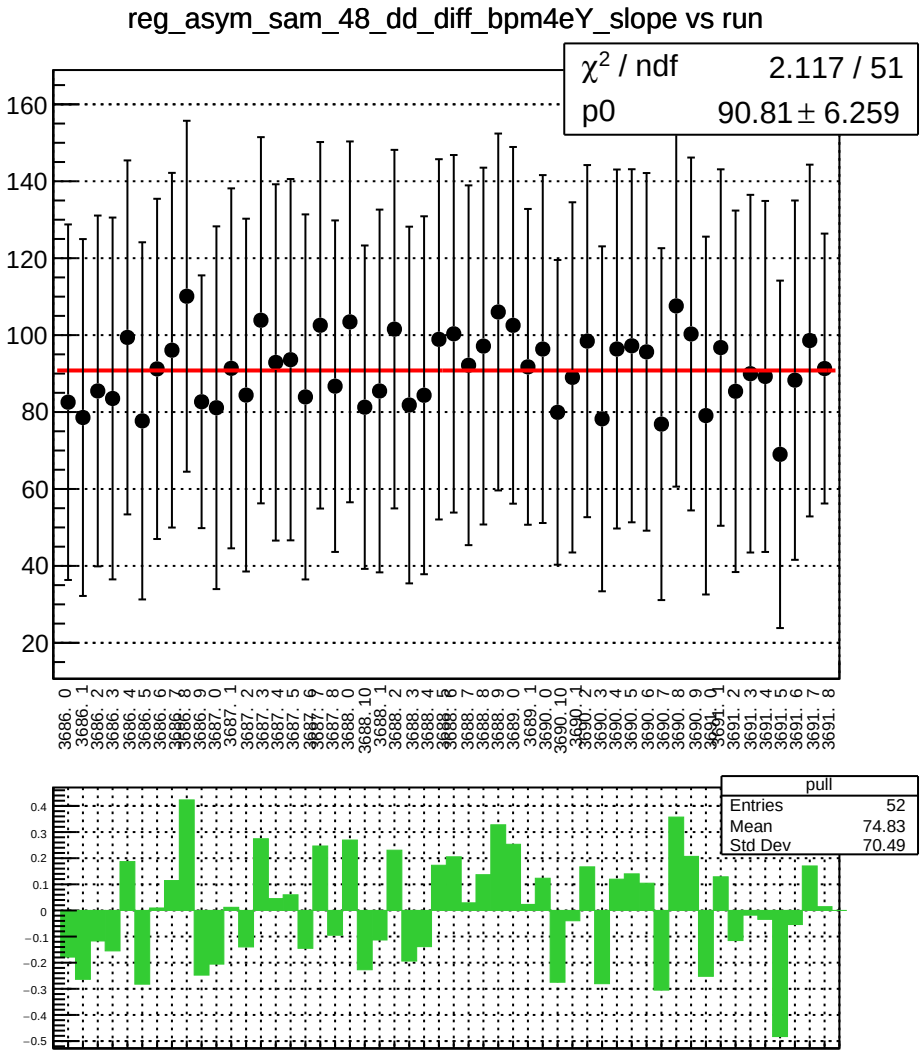

pull1D
Entries 52
Mean 0.001236
Std Dev 0.2478

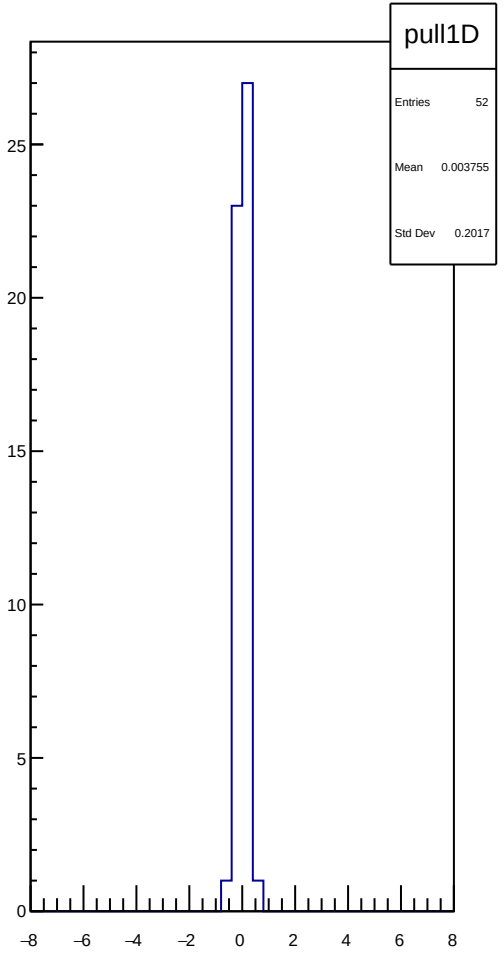

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.458 / 51
p0 120.7 ± 4.006
160
140
120
100
80
pull
Entries 52
Mean 140.1
Std Dev 124.9
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

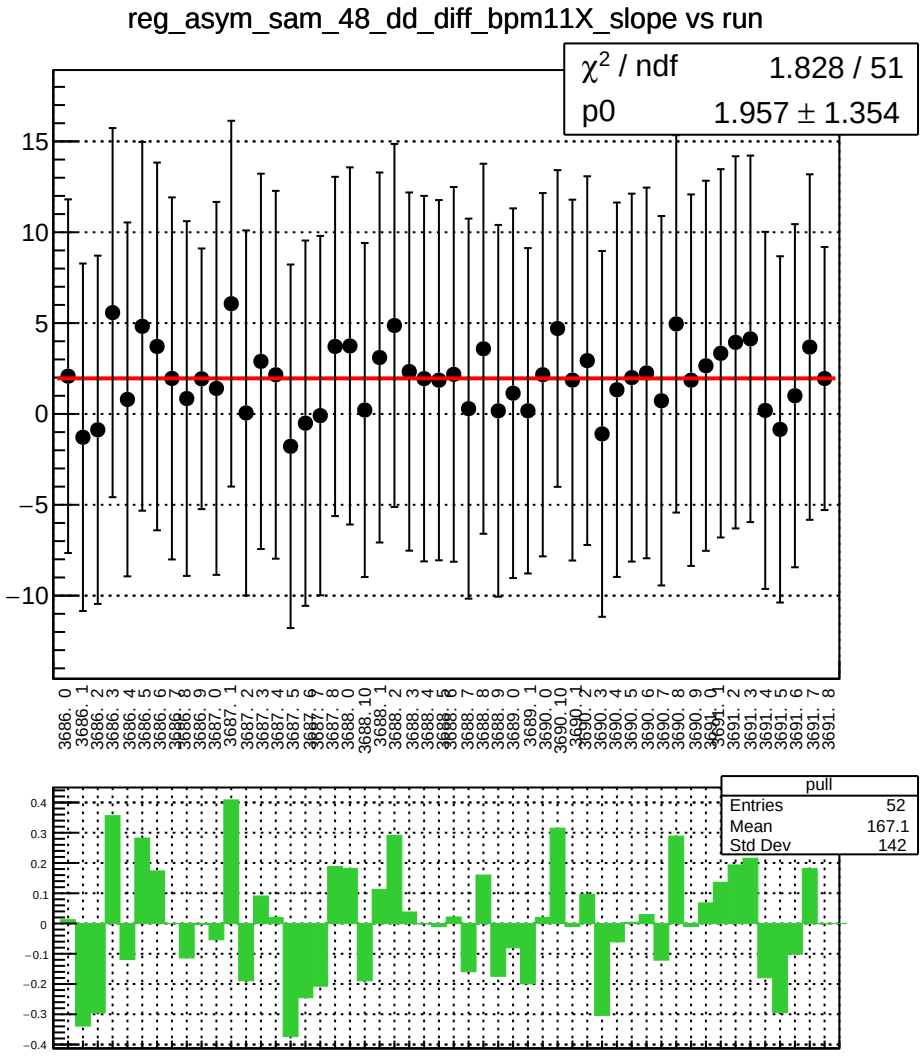

pull1D
Entries 52
Mean −0.003966
Std Dev 0.2174
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

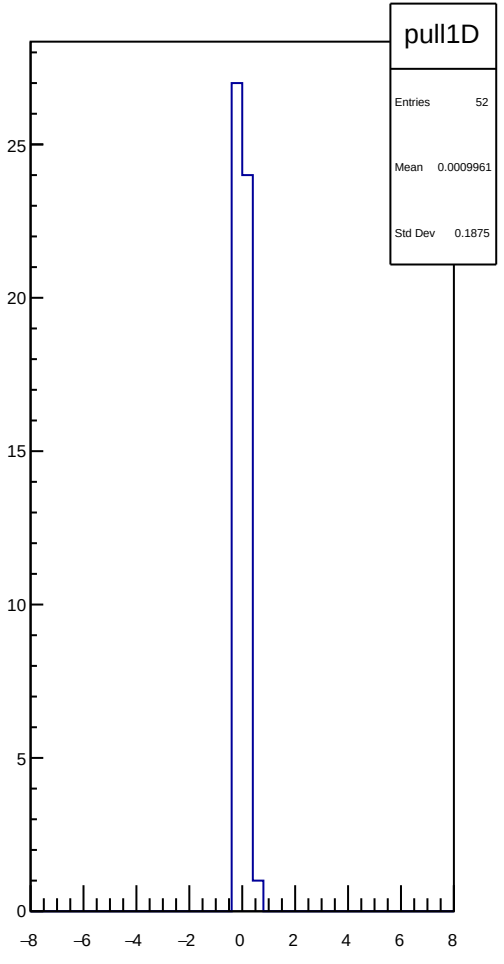

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.302 / 51
p0 −342.4 ± 1.06
pull
Entries 52
Mean −127.3
Std Dev 155.6

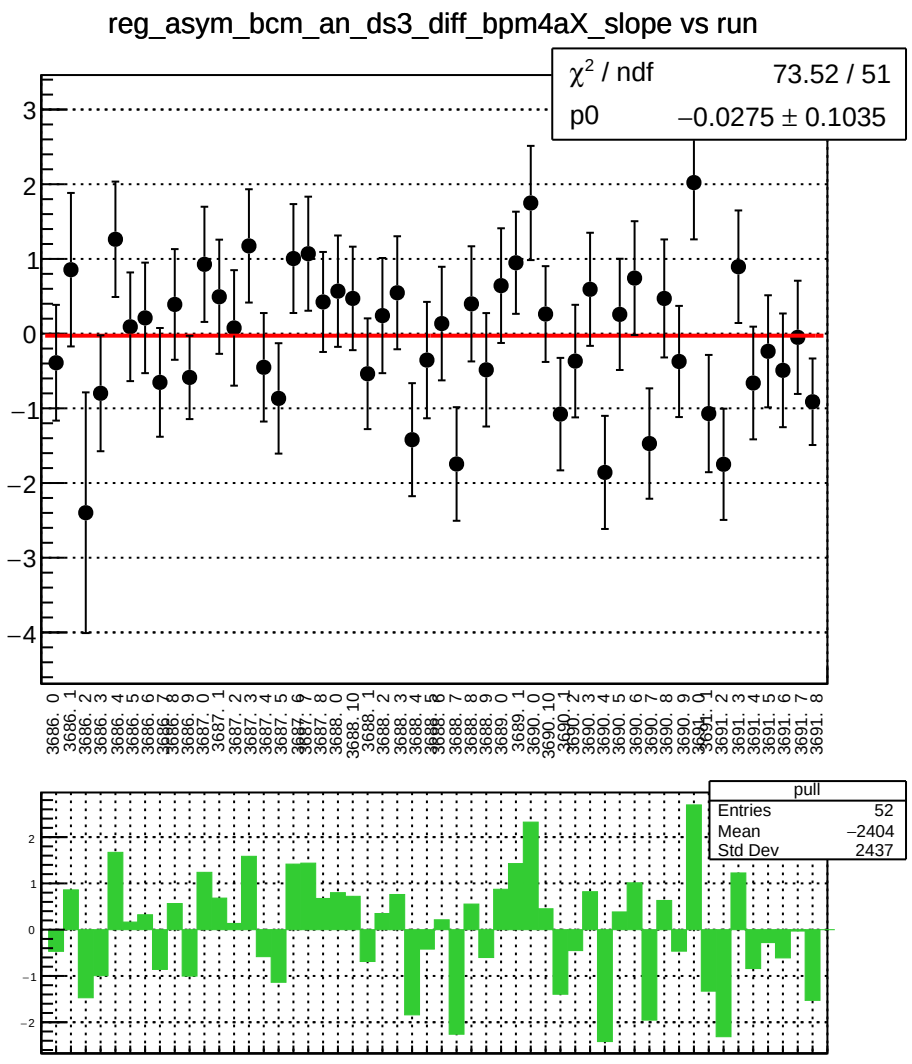

pull1D
Entries 52
Mean −0.006817
Std Dev 0.2875

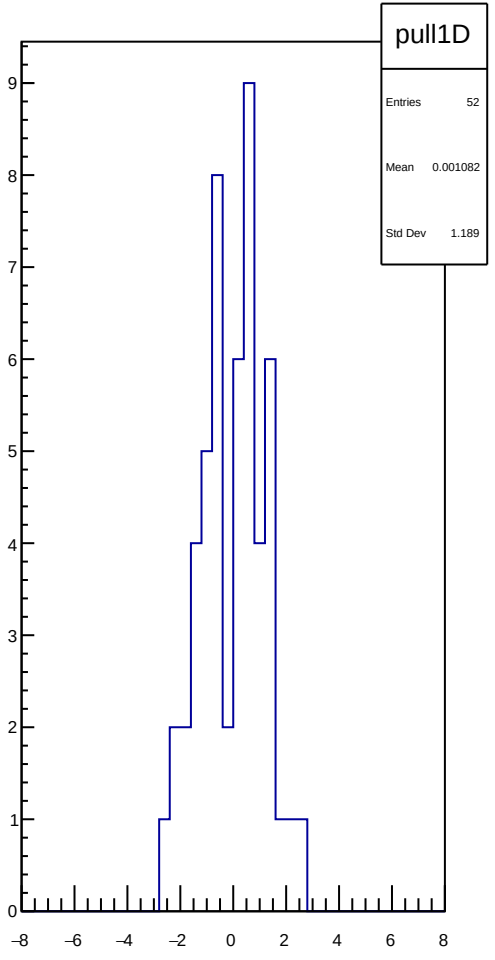

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.117 / 51
p0 90.81 ± 6.259
pull
Entries 52
Mean 74.83
Std Dev 70.49

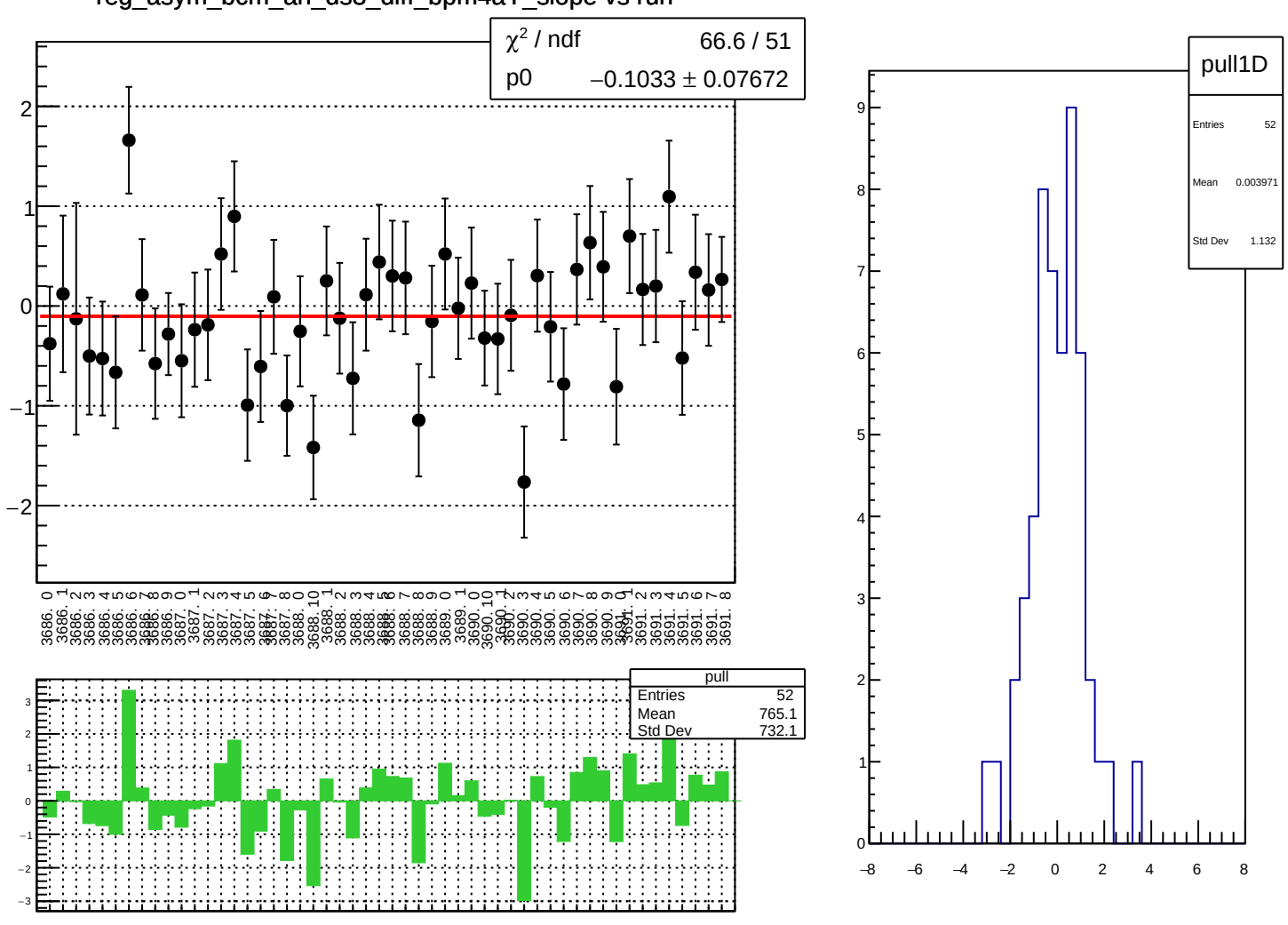

pull1D
Entries 52
Mean 0.003755
Std Dev 0.2017

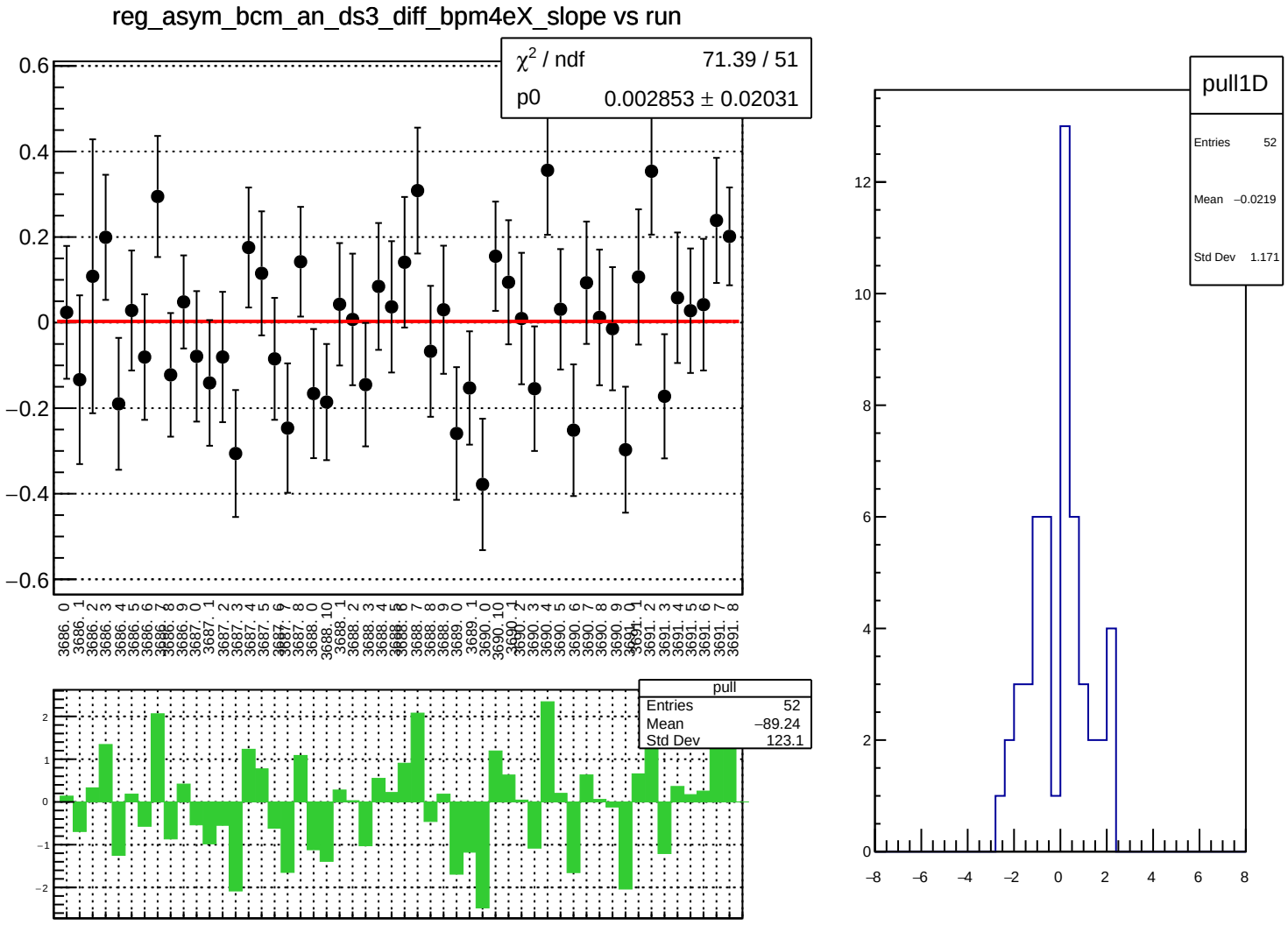

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 1.828 / 51
p0 1.957 ± 1.354
pull
Entries 52
Mean 167.1
Std Dev 142

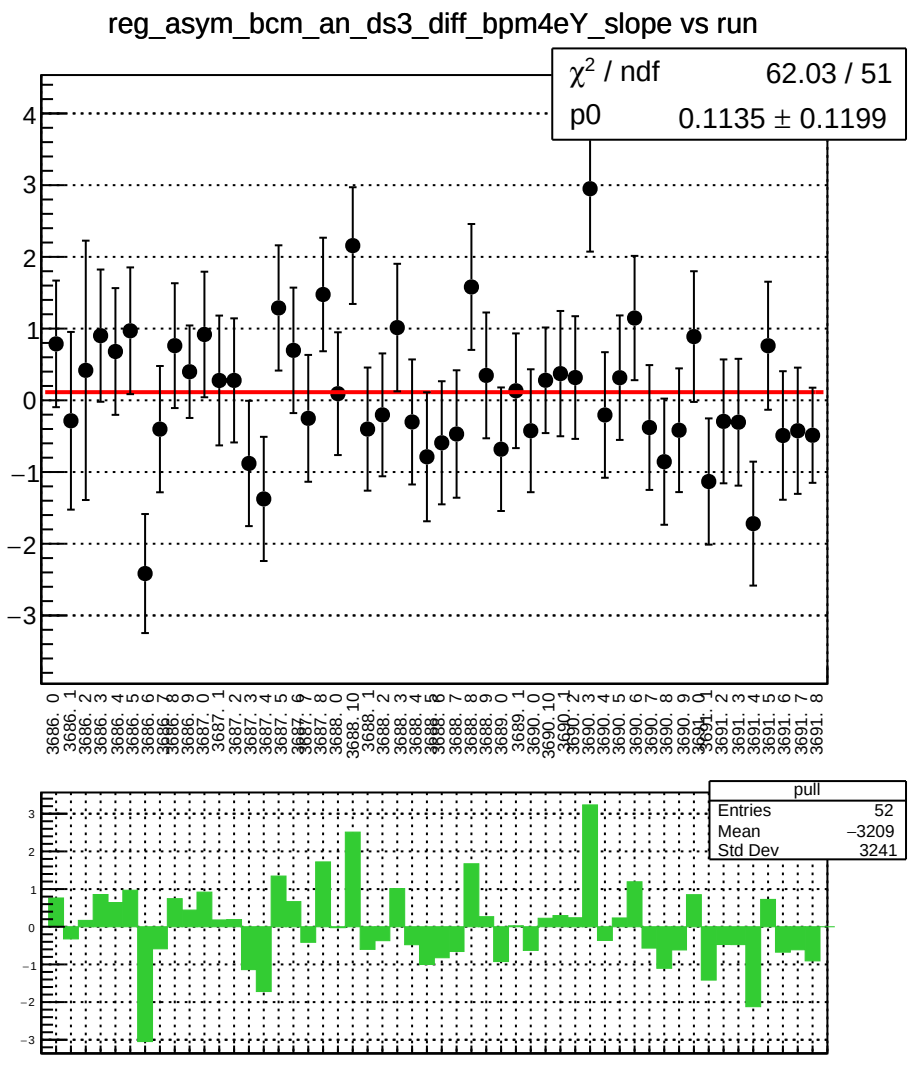

pull1D
Entries 52
Mean 0.0009961
Std Dev 0.1875

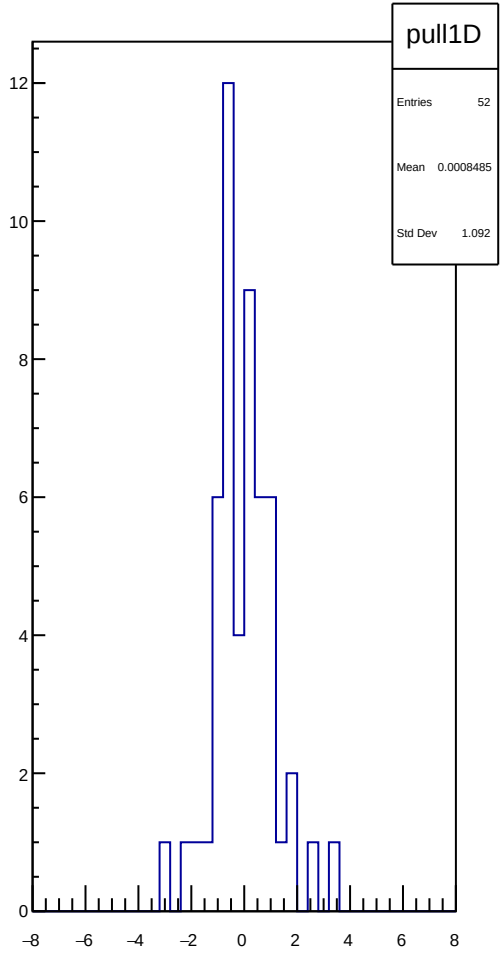

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 73.52 / 51
p0 −0.0275 ± 0.1035
pull
Entries 52
Mean −2404
Std Dev 2437

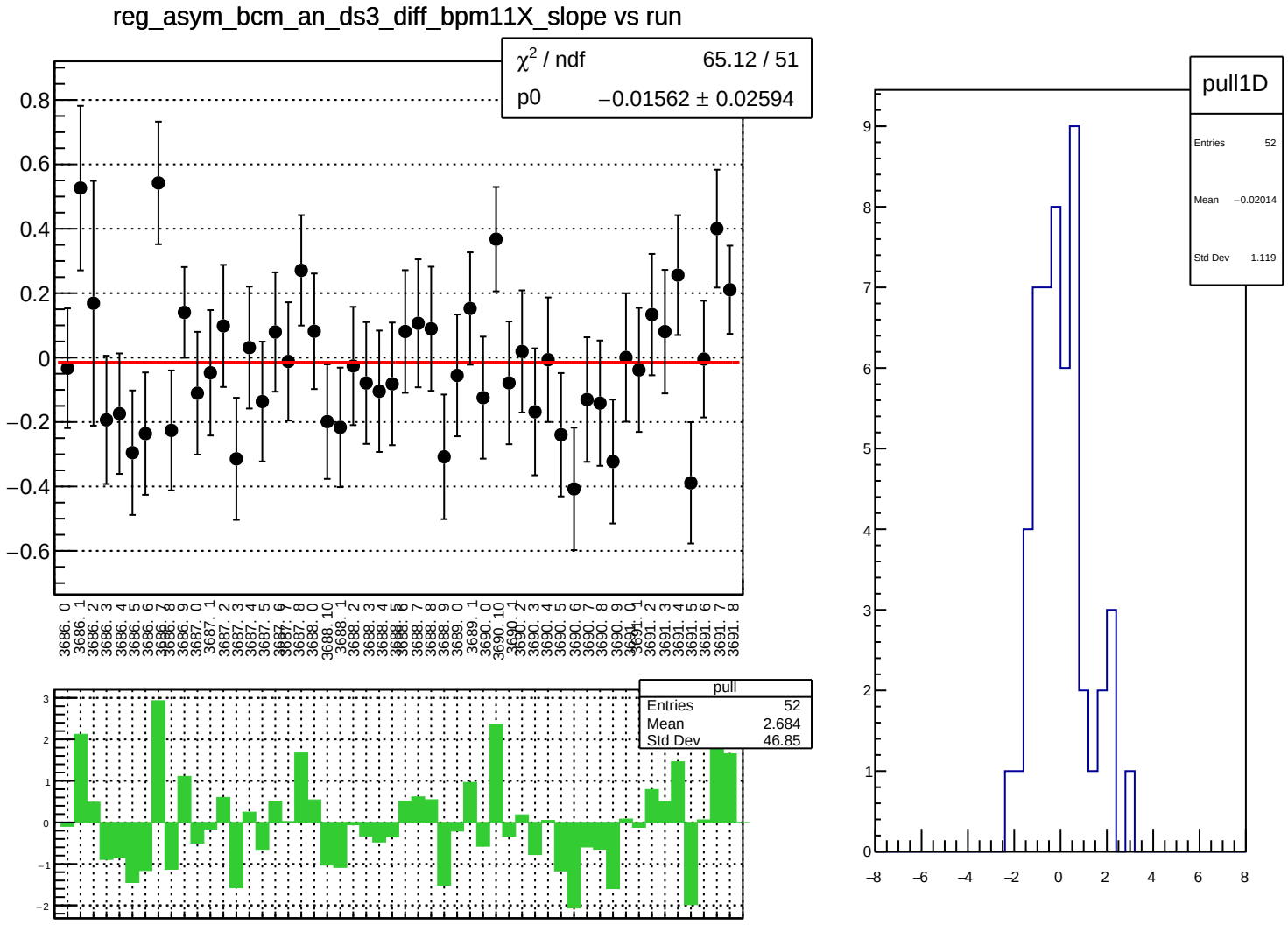

pull1D
Entries 52
Mean 0.001082
Std Dev 1.189

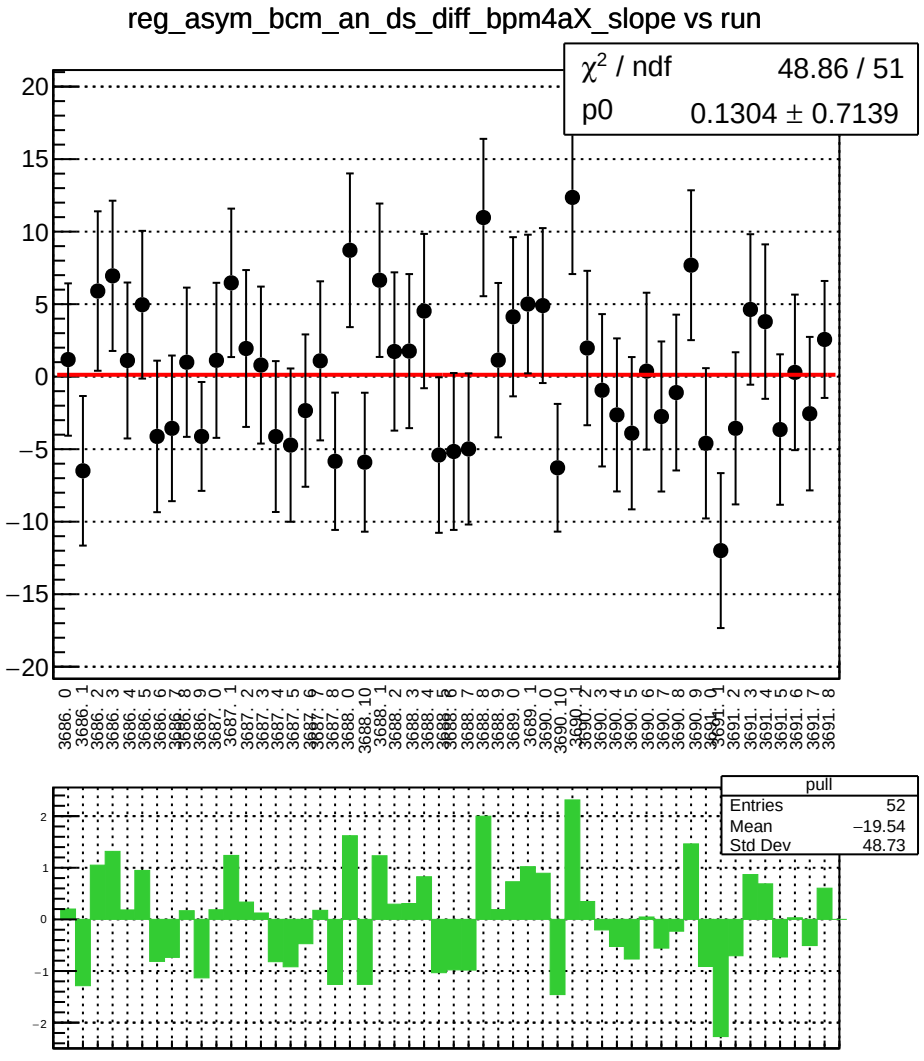

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 66.6 / 51
p0 −0.1033 ± 0.07672
pull
Entries 52
Mean 765.1
Std Dev 732.1
pull1D
Entries 52
Mean 0.003971
Std Dev 1.132

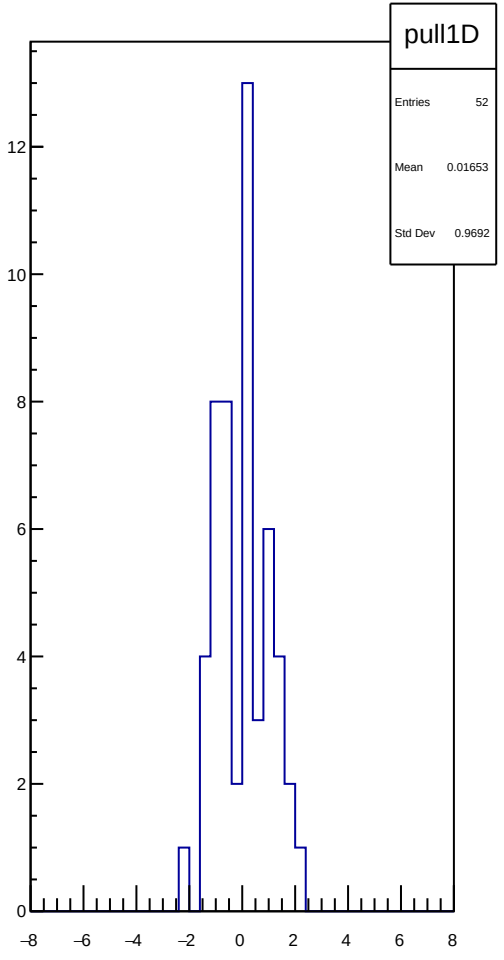

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 71.39 / 51
p0 0.002853 ± 0.02031
pull
Entries 52
Mean −89.24
Std Dev 123.1
pull1D
Entries 52
Mean −0.0219
Std Dev 1.171

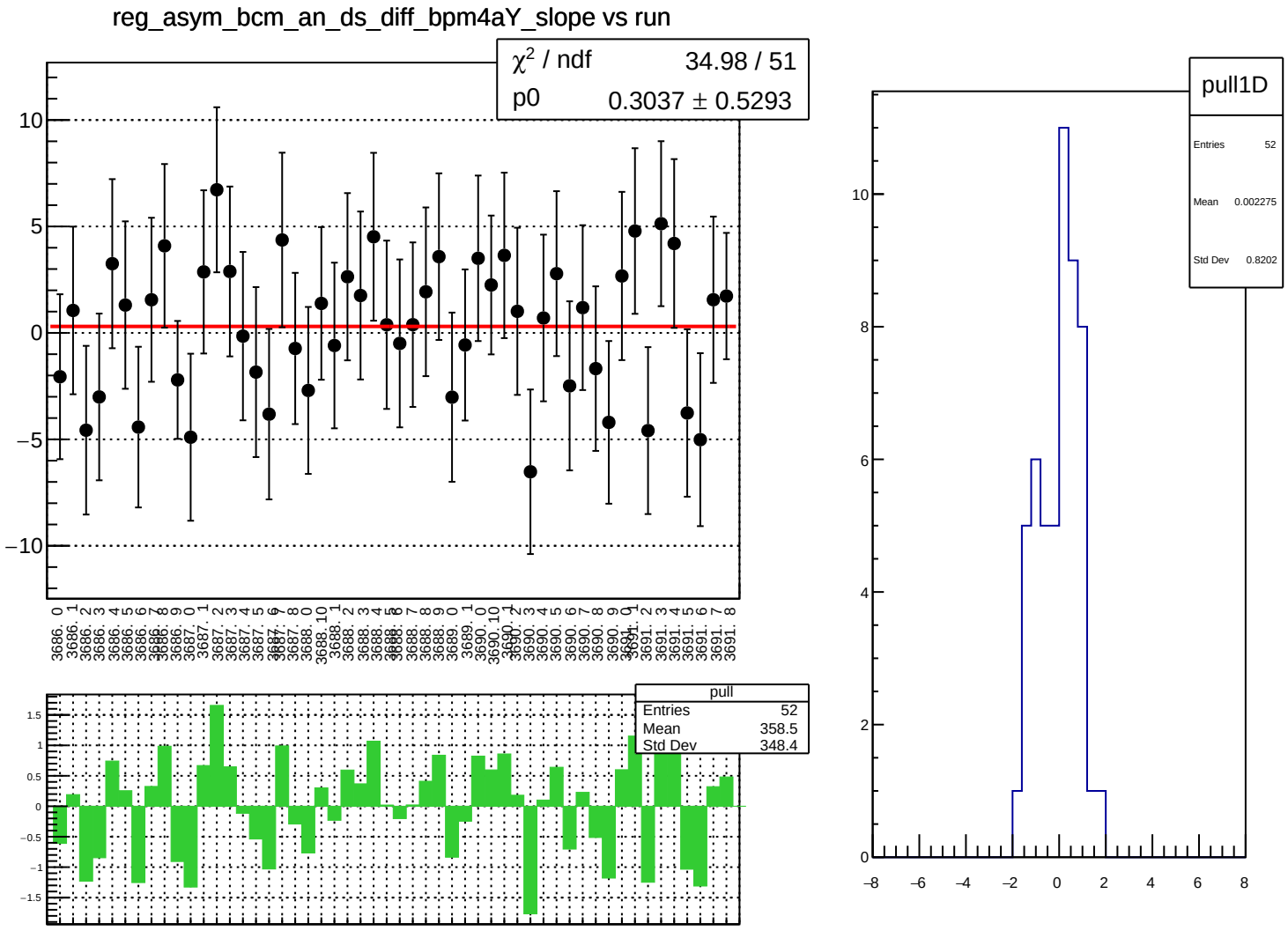

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 62.03 / 51
p0 0.1135 ± 0.1199
pull
Entries 52
Mean −3209
Std Dev 3241

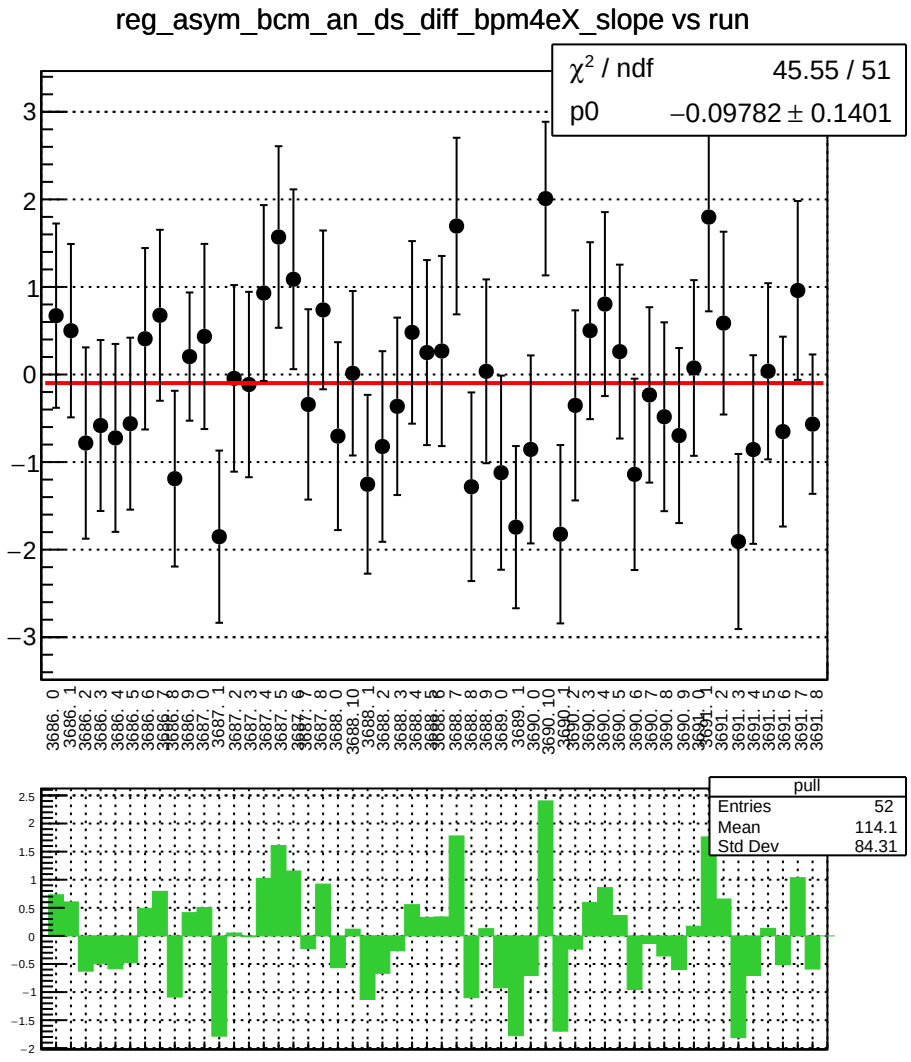

pull1D
Entries 52
Mean 0.0008485
Std Dev 1.092

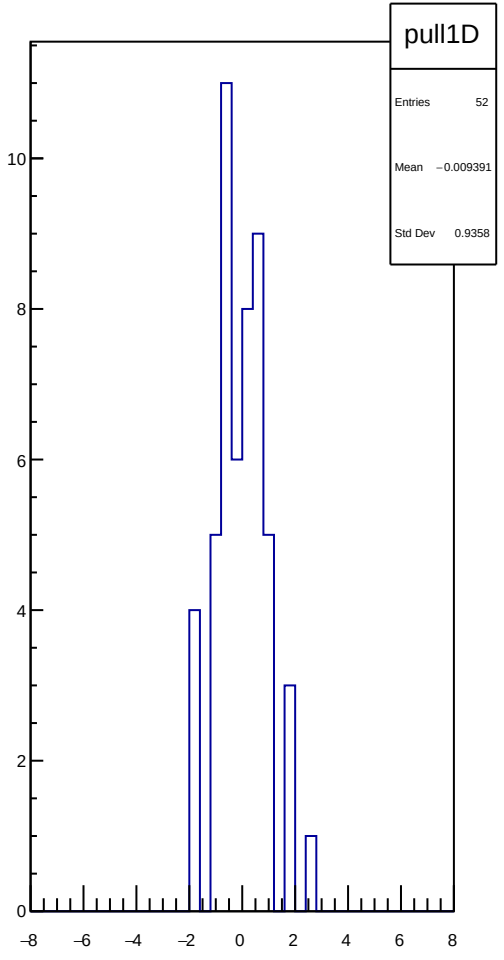

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 65.12 / 51
p0 −0.01562 ± 0.02594
pull
Entries 52
Mean 2.684
Std Dev 46.85
pull1D
Entries 52
Mean −0.02014
Std Dev 1.119

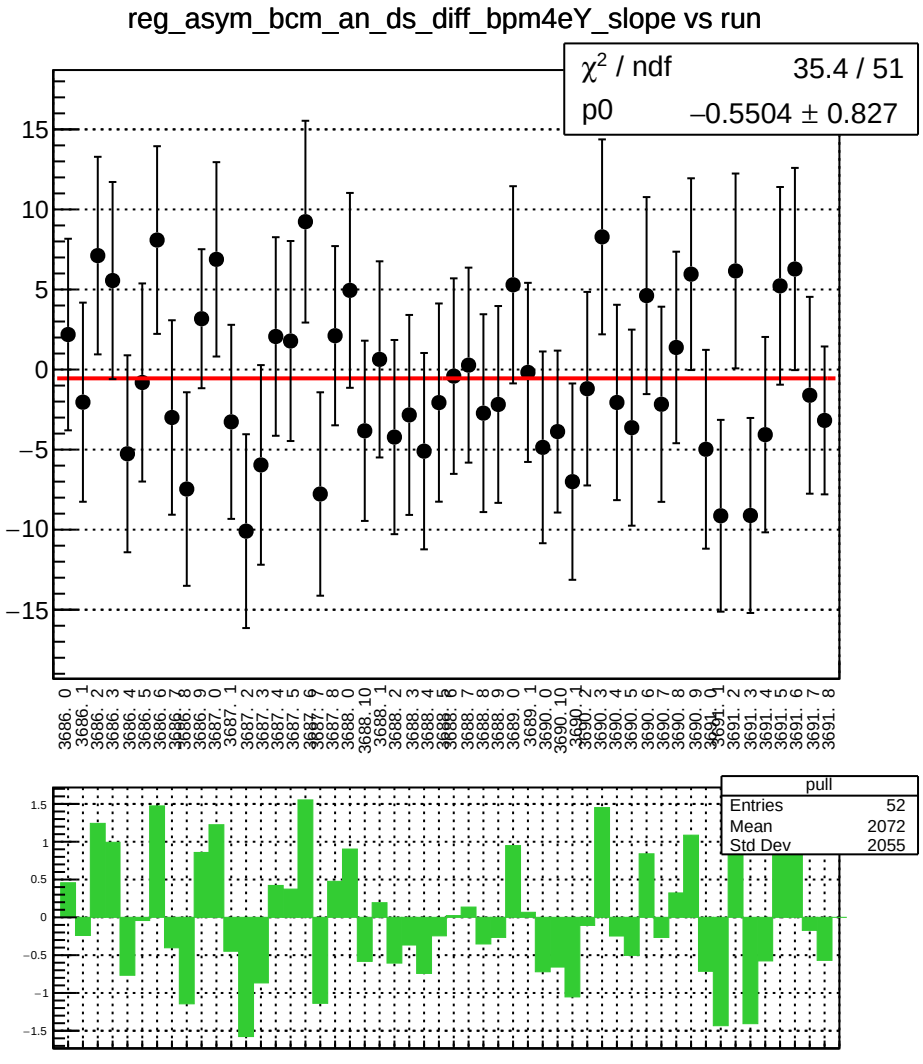

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 48.86 / 51
p0 0.1304 ± 0.7139
pull
Entries 52
Mean −19.54
Std Dev 48.73

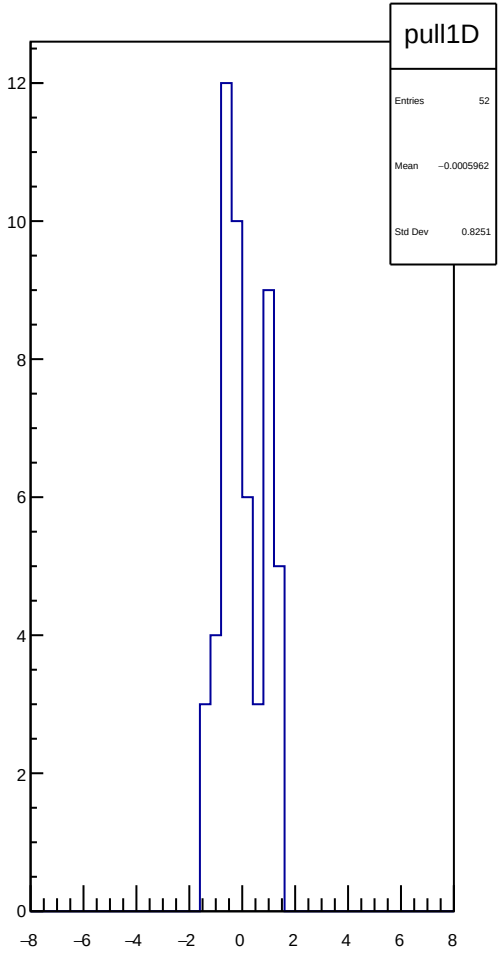

pull1D
Entries 52
Mean 0.01653
Std Dev 0.9692

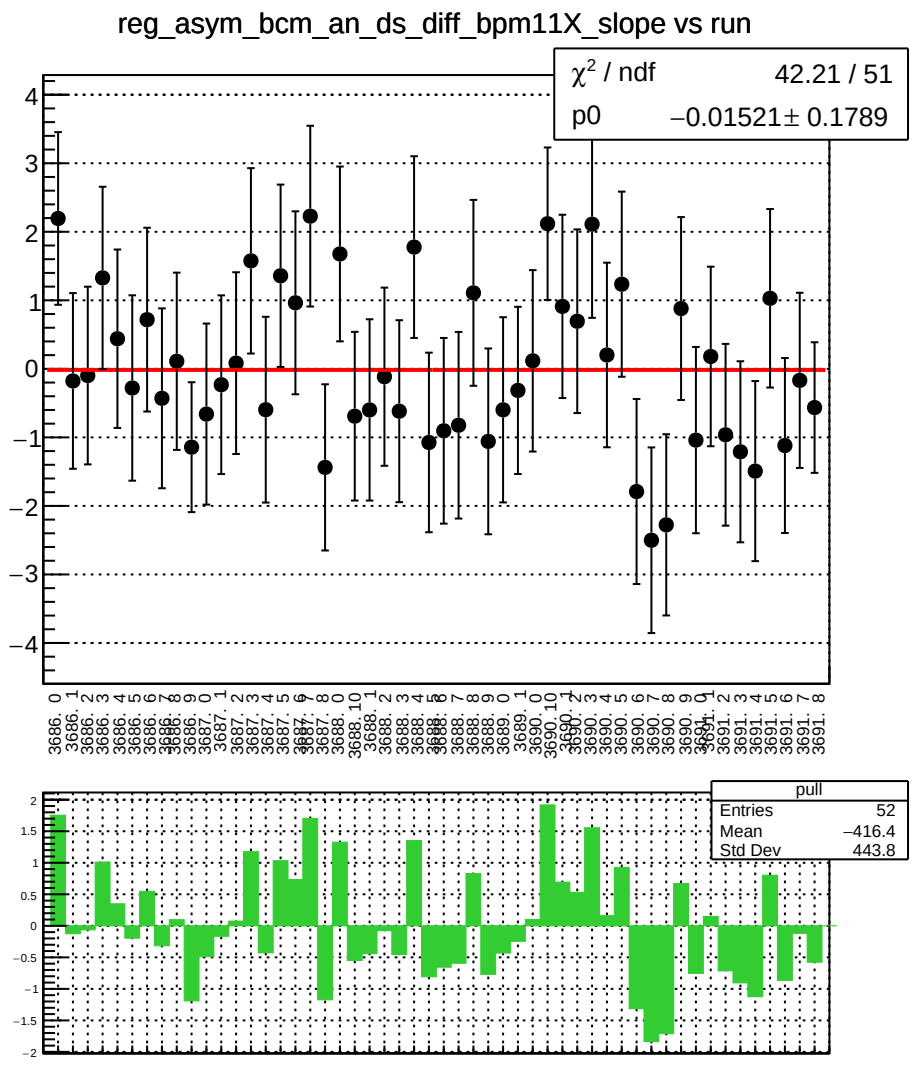

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 34.98 / 51
p0 0.3037 ± 0.5293
pull
Entries 52
Mean 358.5
Std Dev 348.4
pull1D
Entries 52
Mean 0.002275
Std Dev 0.8202

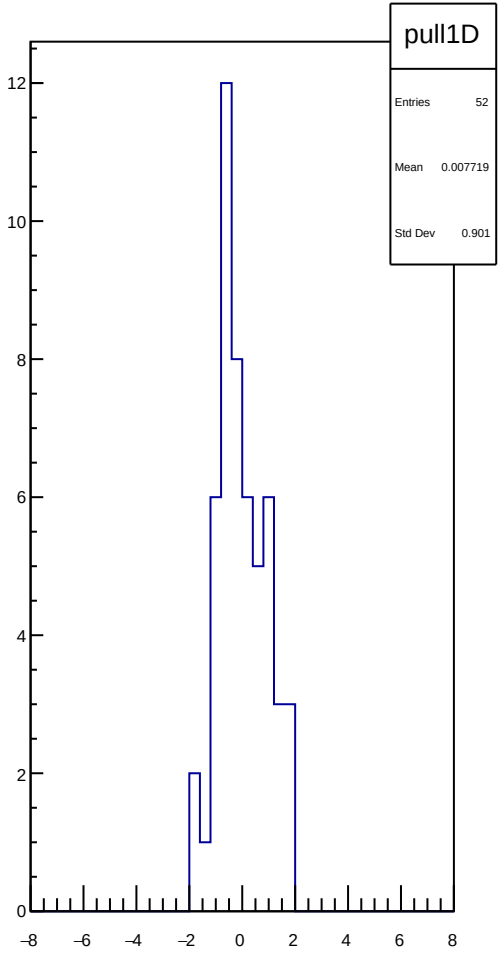

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 45.55 / 51
p0 −0.09782 ± 0.1401
pull
Entries 52
Mean 114.1
Std Dev 84.31

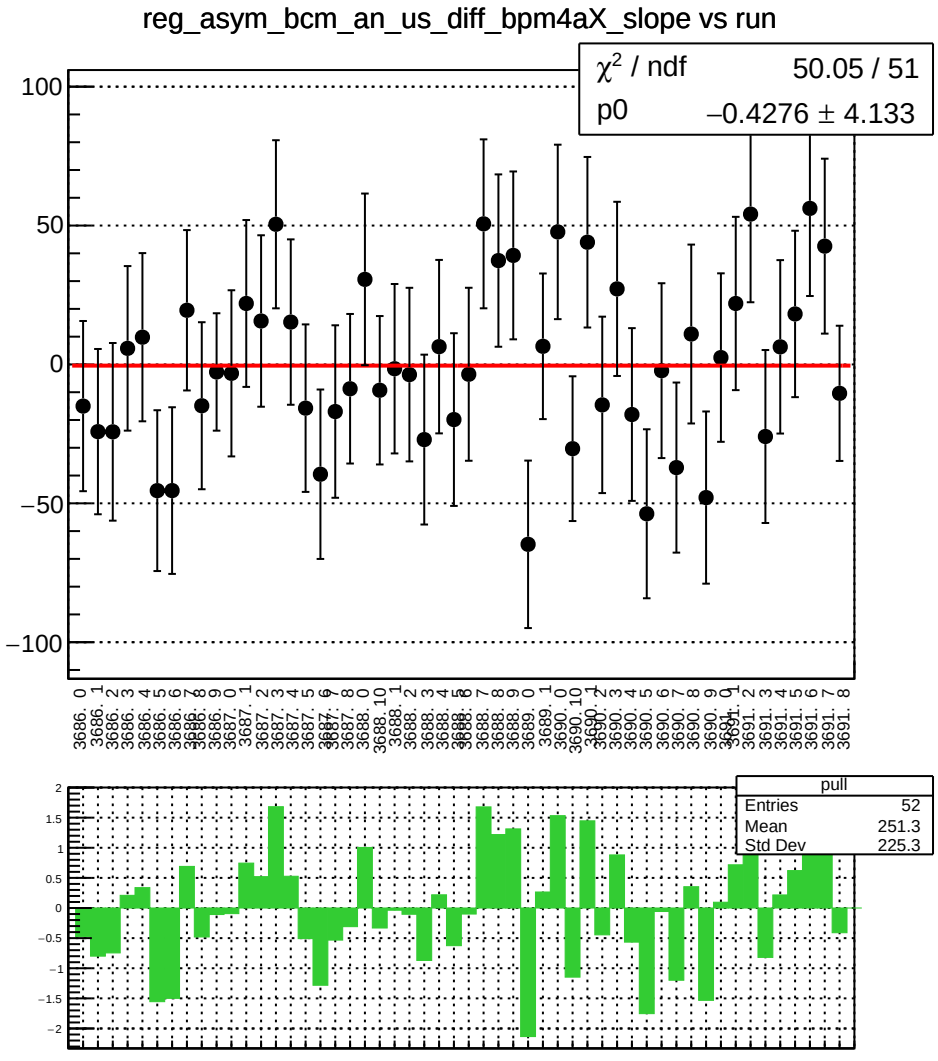

pull1D
Entries 52
Mean −0.009391
Std Dev 0.9358

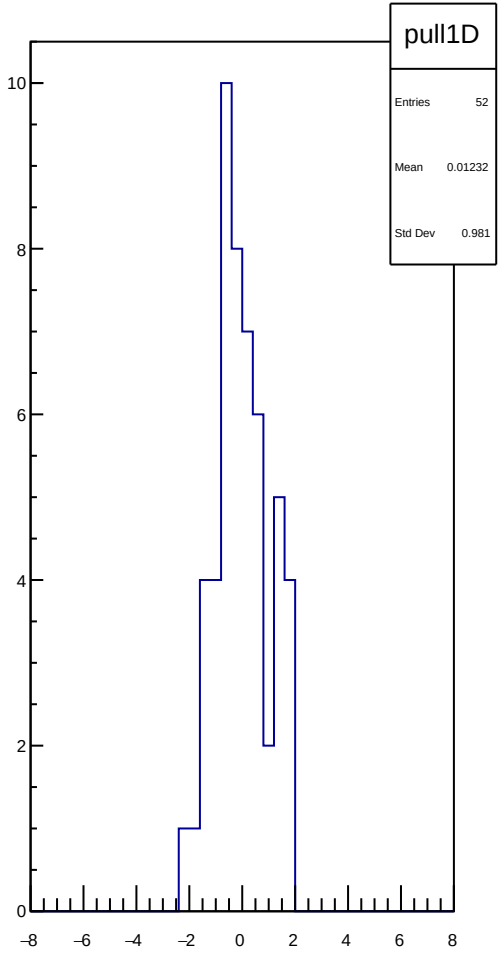

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 35.4 / 51
p0 −0.5504 ± 0.827
pull
Entries 52
Mean 2072
Std Dev 2055

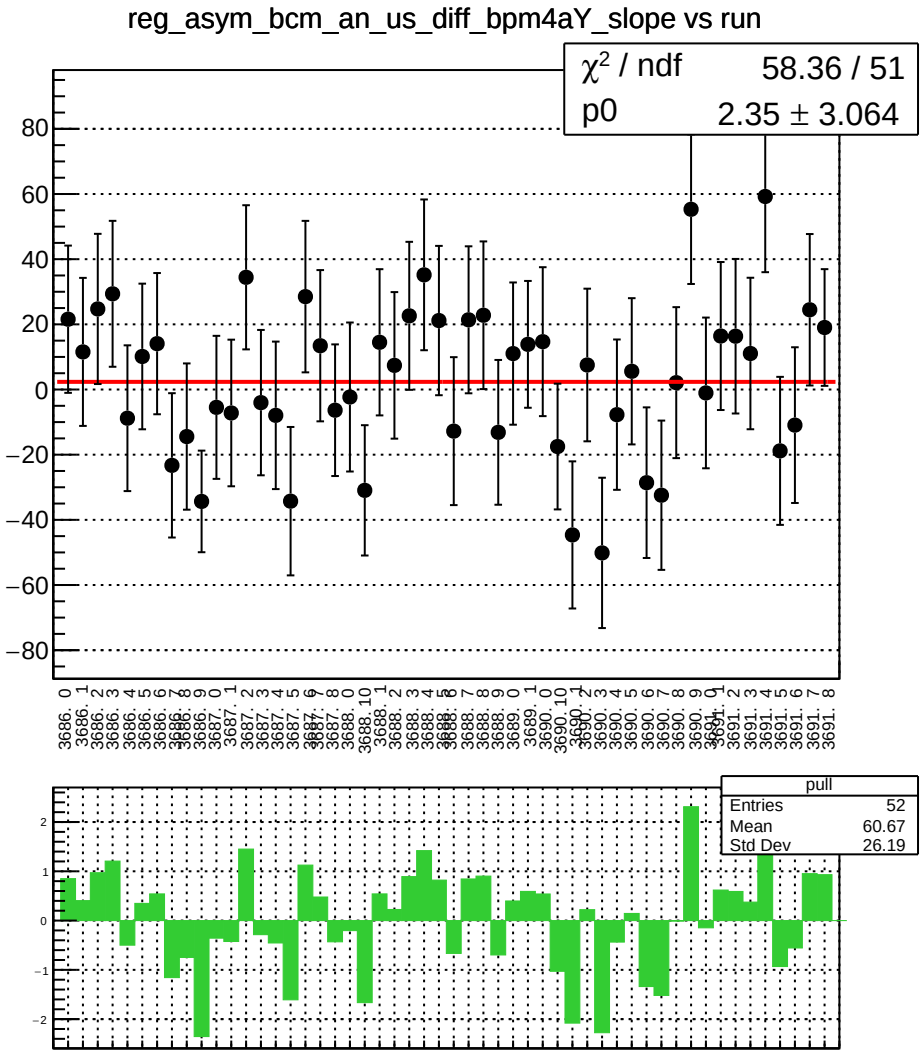

pull1D
Entries 52
Mean −0.0005962
Std Dev 0.8251

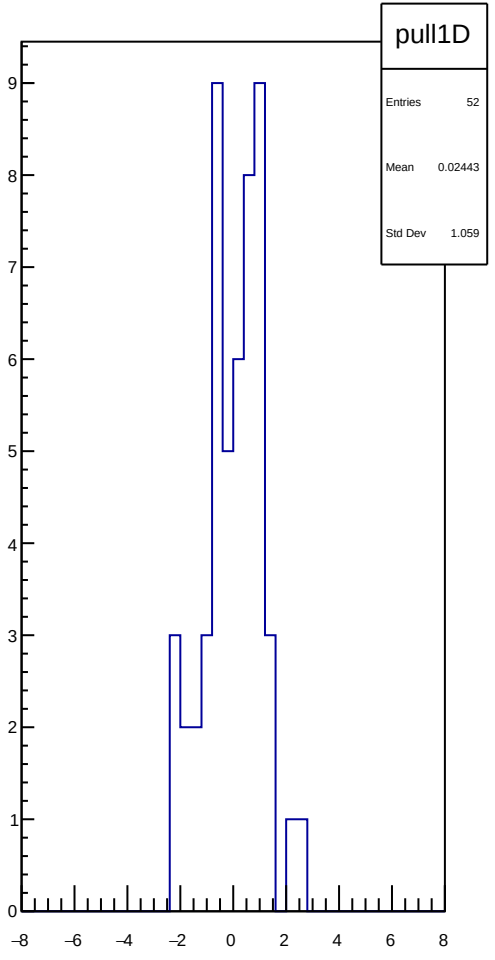

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 42.21 / 51
p0 −0.01521± 0.1789
pull
Entries 52
Mean −416.4
Std Dev 443.8

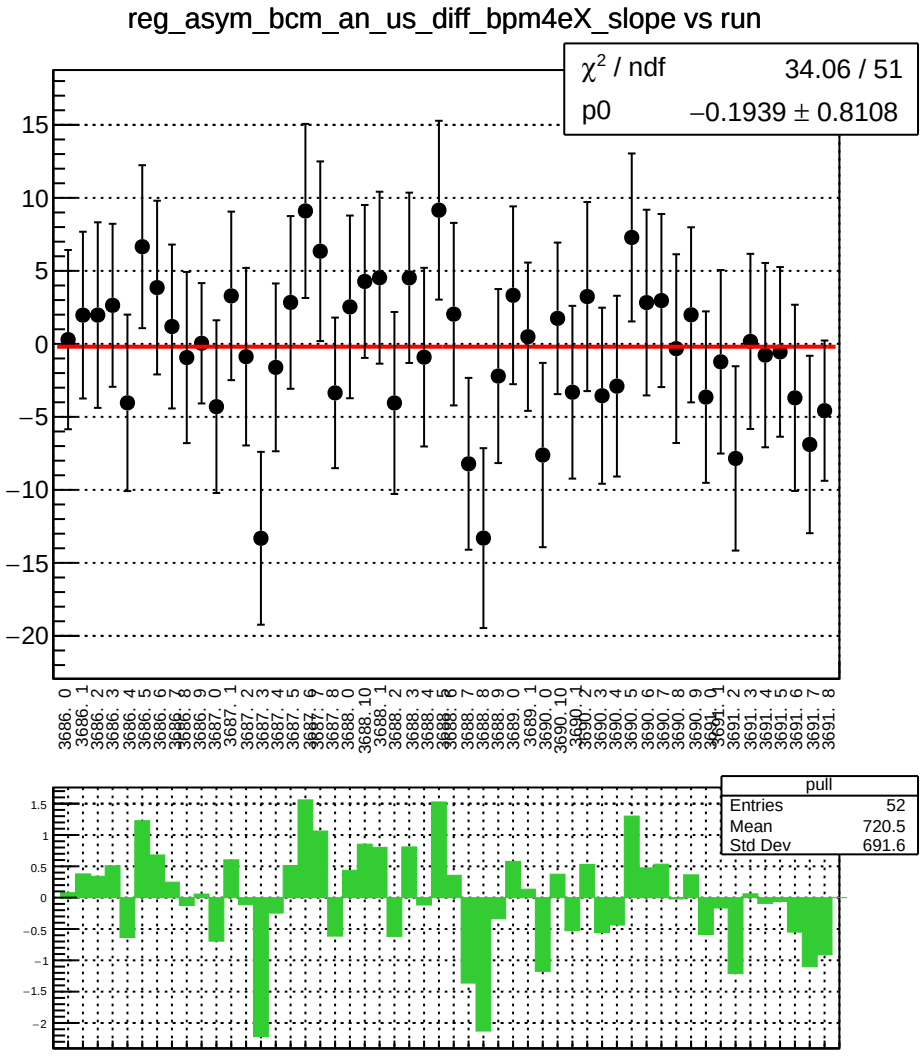

pull1D
Entries 52
Mean 0.007719
Std Dev 0.901

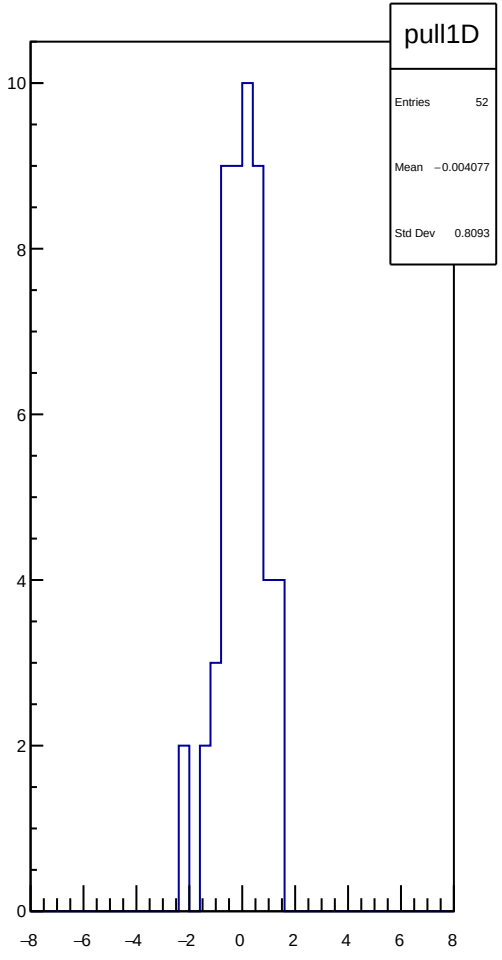

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 50.05 / 51
p0 −0.4276 ± 4.133
100
50
0
−50
−100
pull
Entries 52
Mean 251.3
Std Dev 225.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

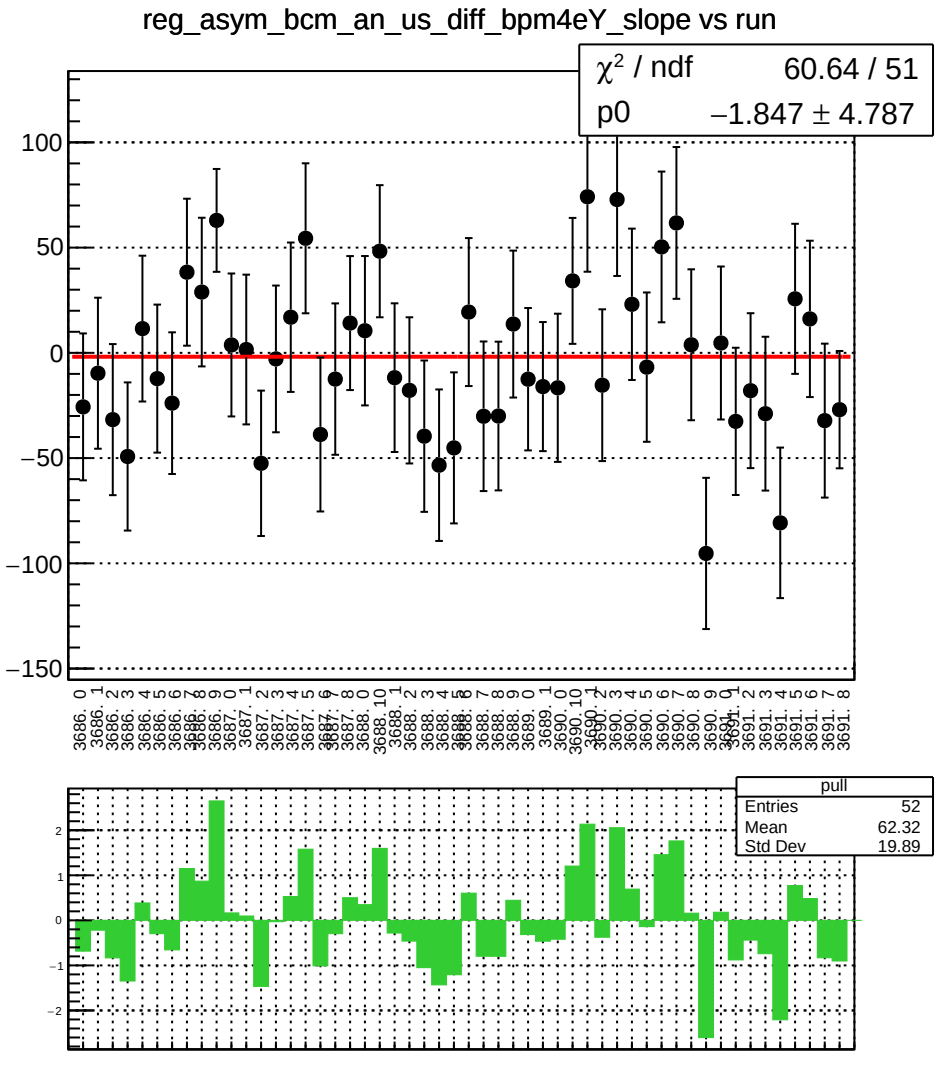

pull1D
Entries 52
Mean 0.01232
Std Dev 0.981
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

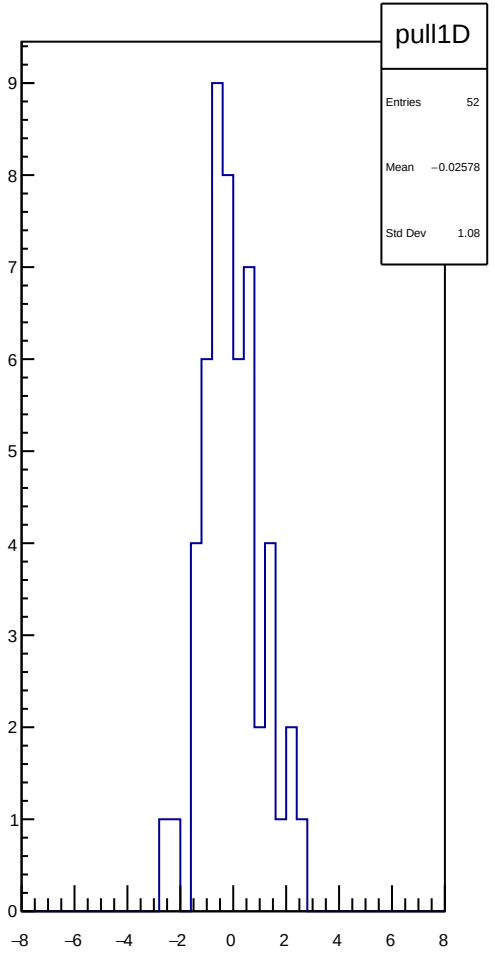

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 58.36 / 51
p0 2.35 ± 3.064
pull
Entries 52
Mean 60.67
Std Dev 26.19

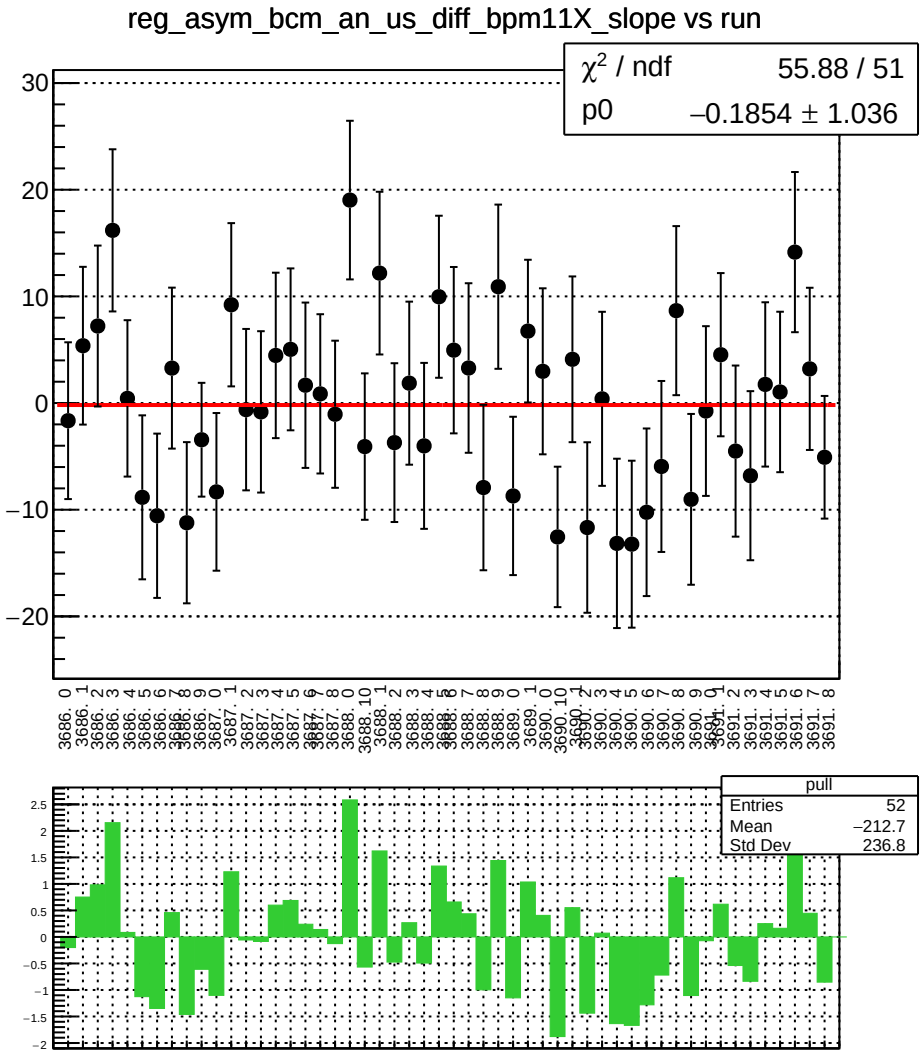

pull1D
Entries 52
Mean 0.02443
Std Dev 1.059

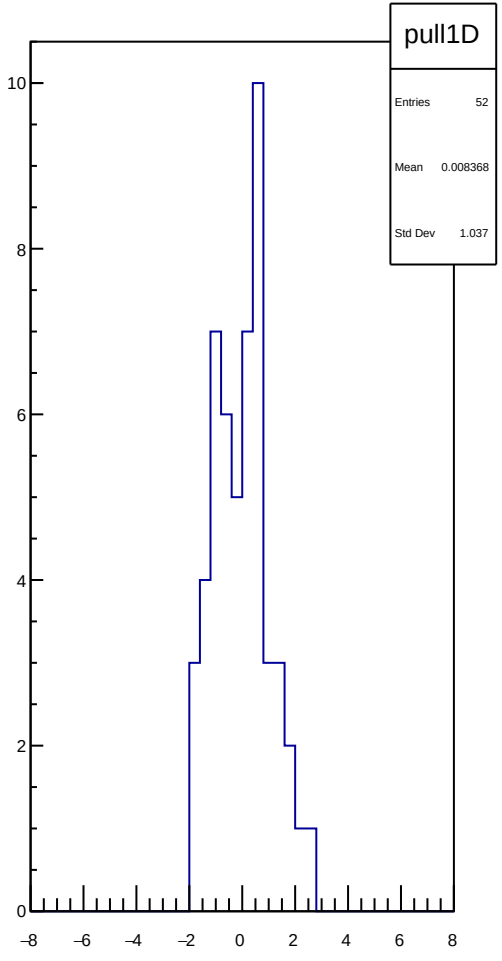

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 34.06 / 51
p0 −0.1939 ± 0.8108
pull
Entries 52
Mean 720.5
Std Dev 691.6

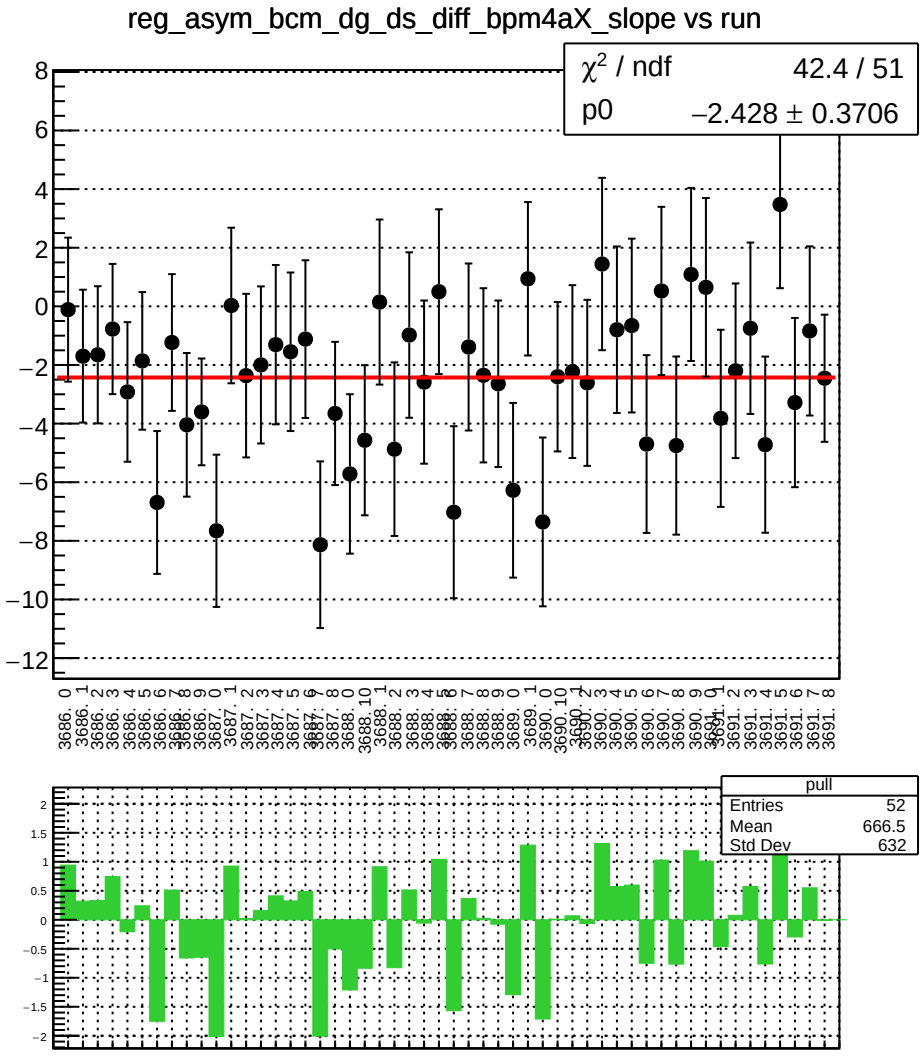

pull1D
Entries 52
Mean −0.004077
Std Dev 0.8093

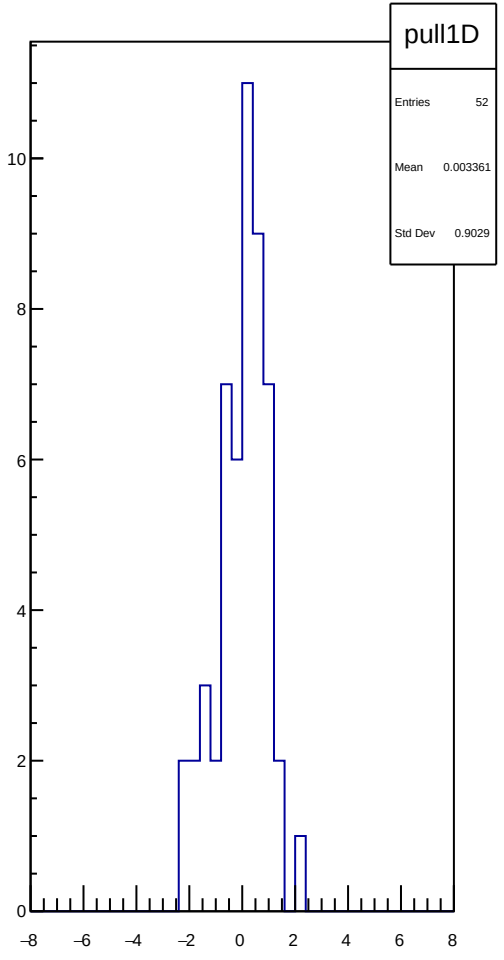

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 60.64 / 51
p0 −1.847 ± 4.787
pull
Entries 52
Mean 62.32
Std Dev 19.89

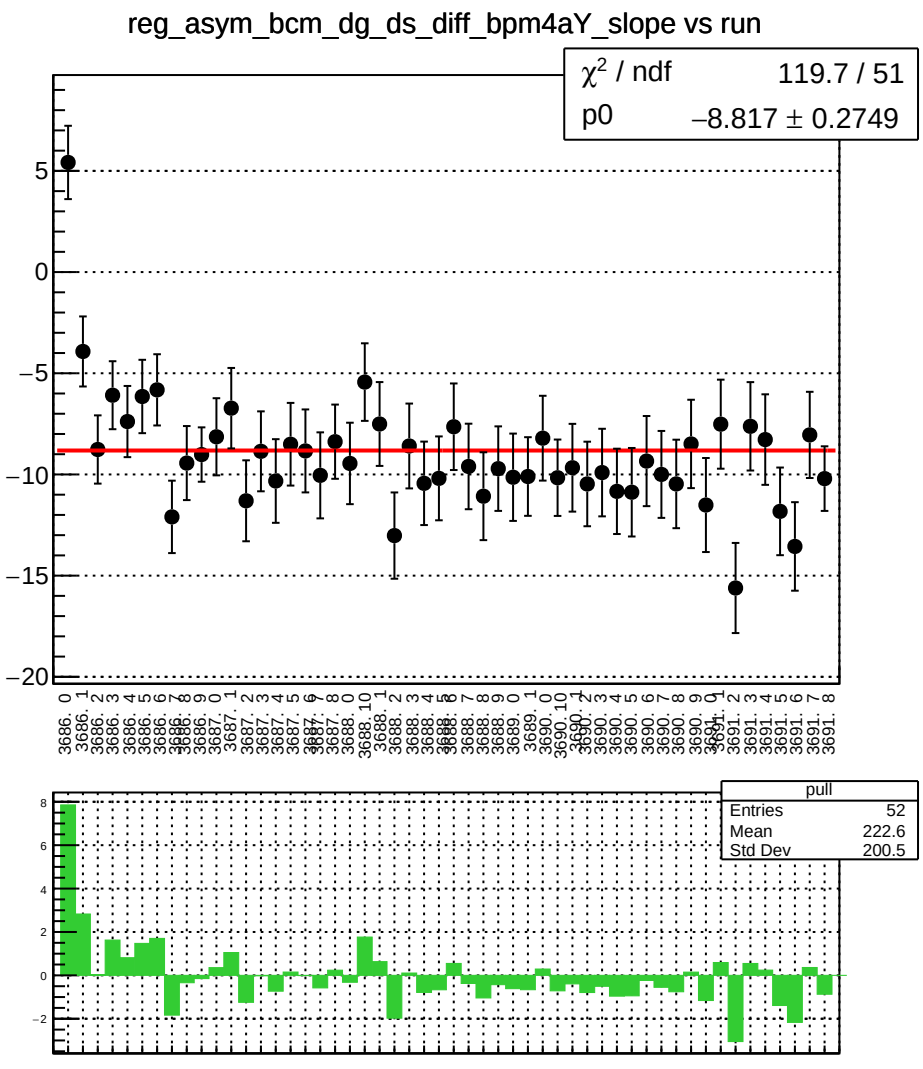

pull1D
Entries 52
Mean −0.02578
Std Dev 1.08

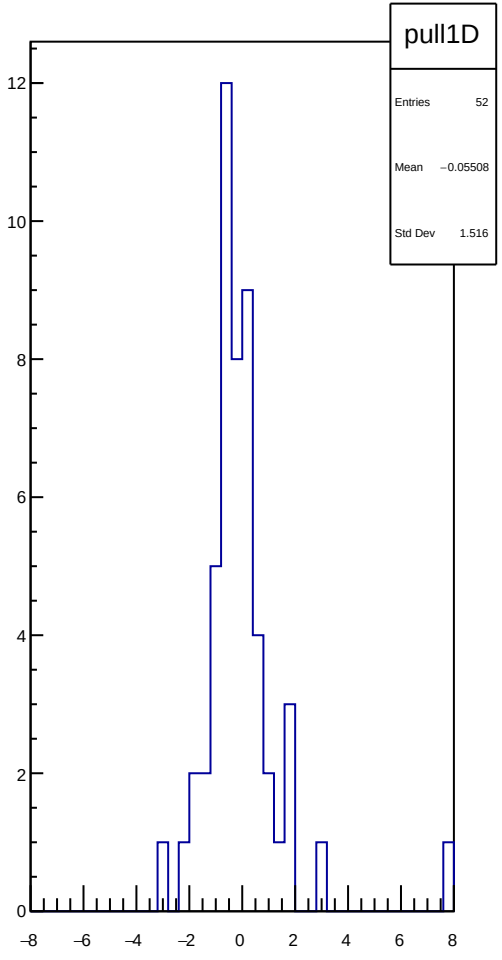

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 55.88 / 51
p0 −0.1854 ± 1.036
pull
Entries 52
Mean −212.7
Std Dev 236.8

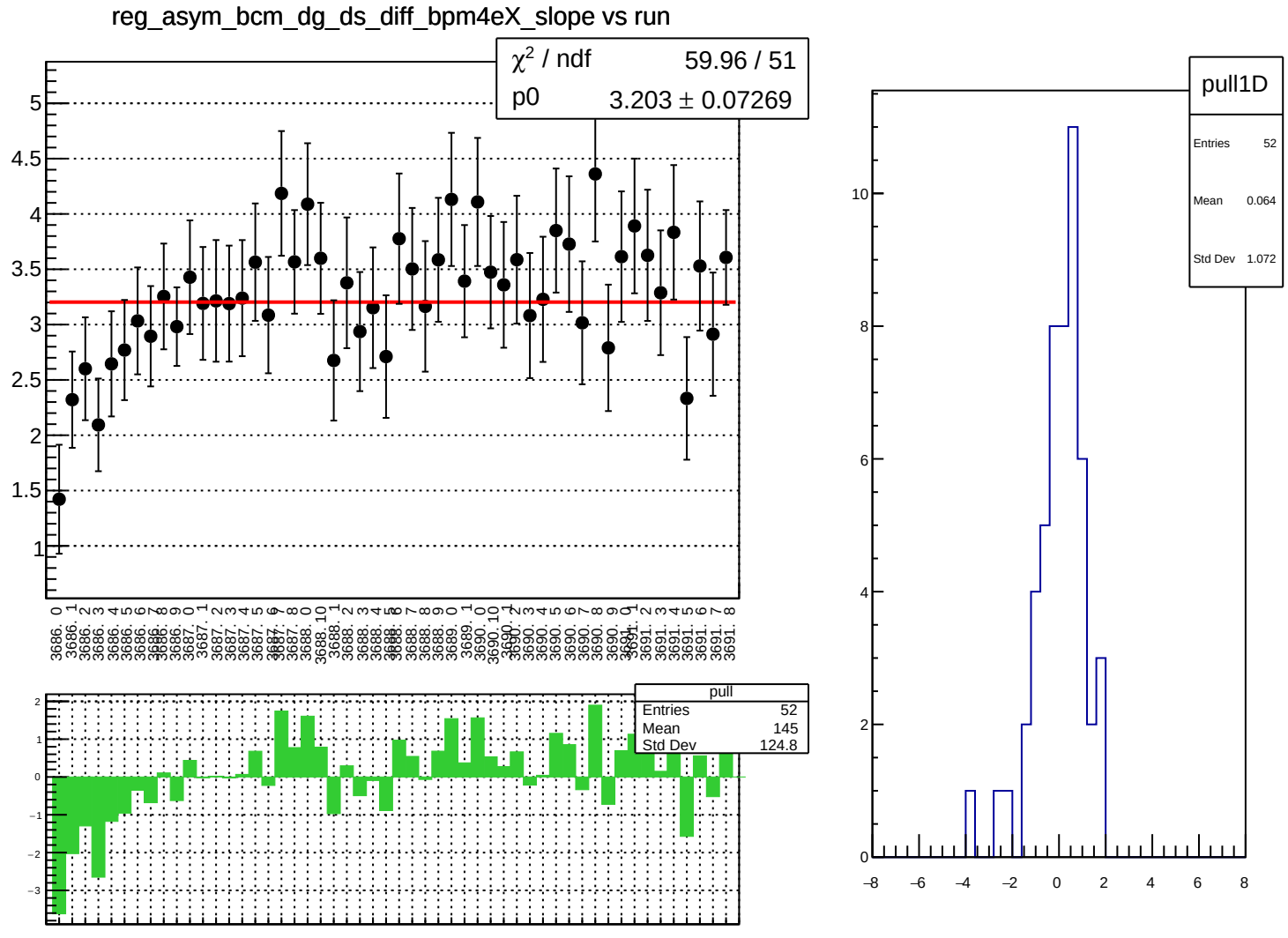

pull1D
Entries 52
Mean 0.008368
Std Dev 1.037

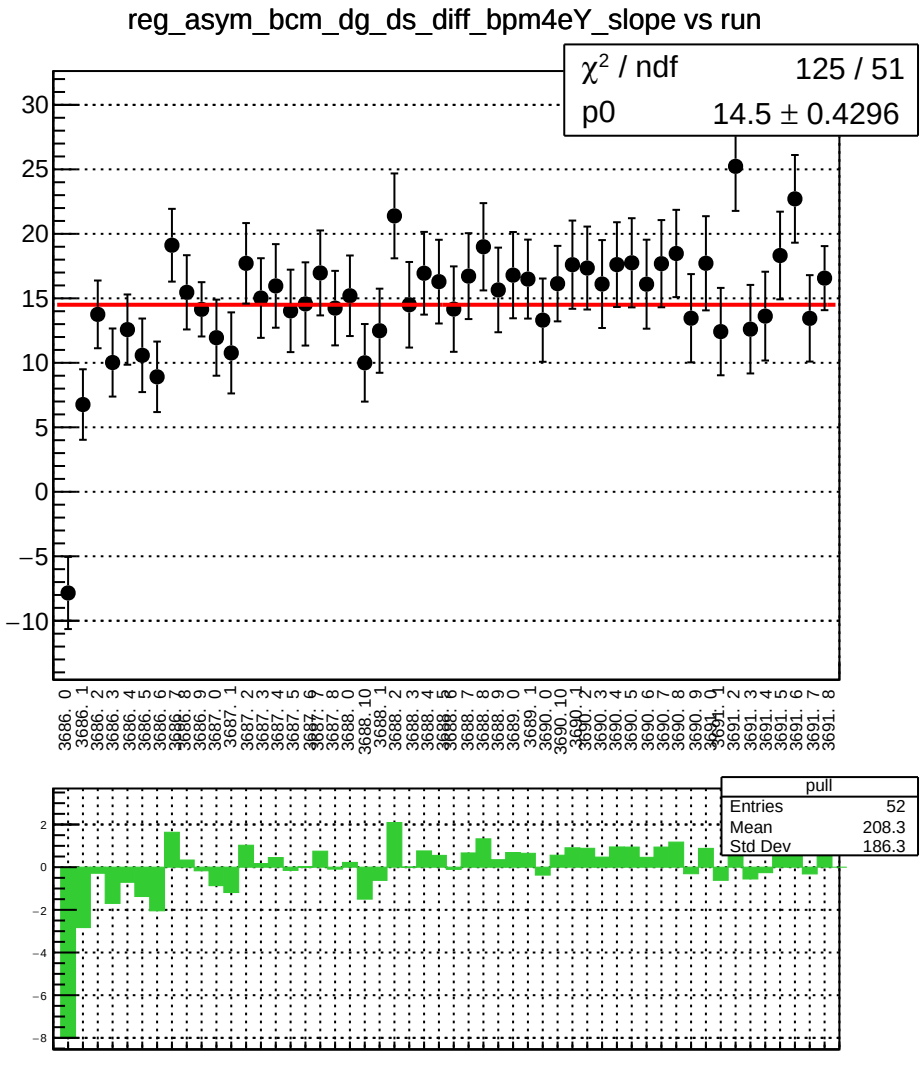

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 42.4 / 51
p0 −2.428 ± 0.3706
pull
Entries 52
Mean 666.5
Std Dev 632

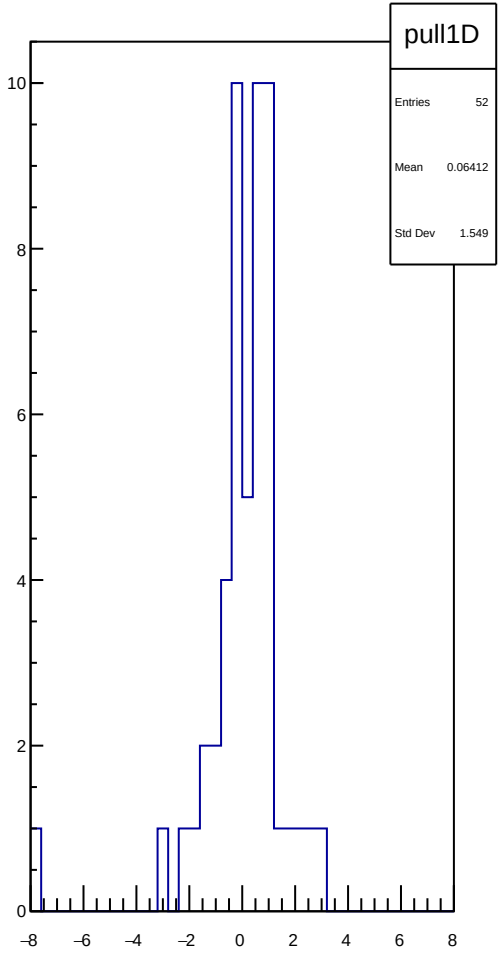

pull1D
Entries 52
Mean 0.003361
Std Dev 0.9029

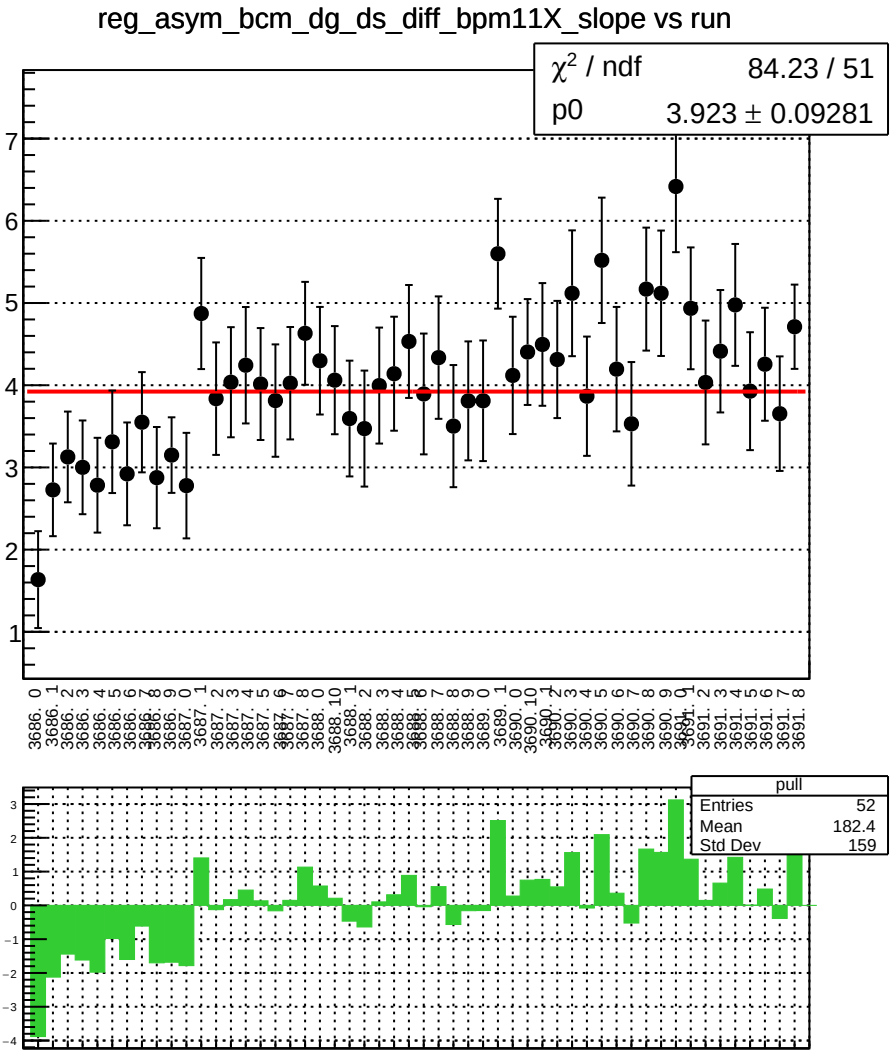

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 119.7 / 51
p0 −8.817 ± 0.2749
pull
Entries 52
Mean 222.6
Std Dev 200.5

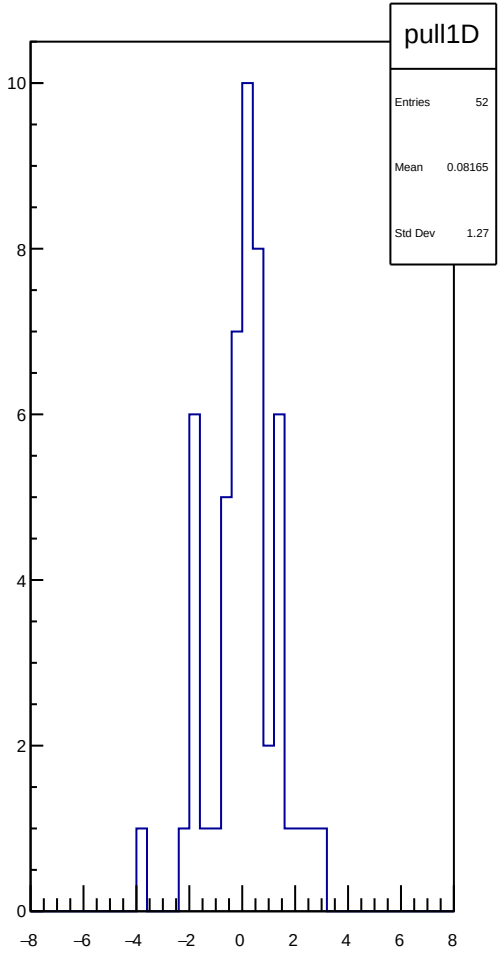

pull1D
Entries 52
Mean −0.05508
Std Dev 1.516

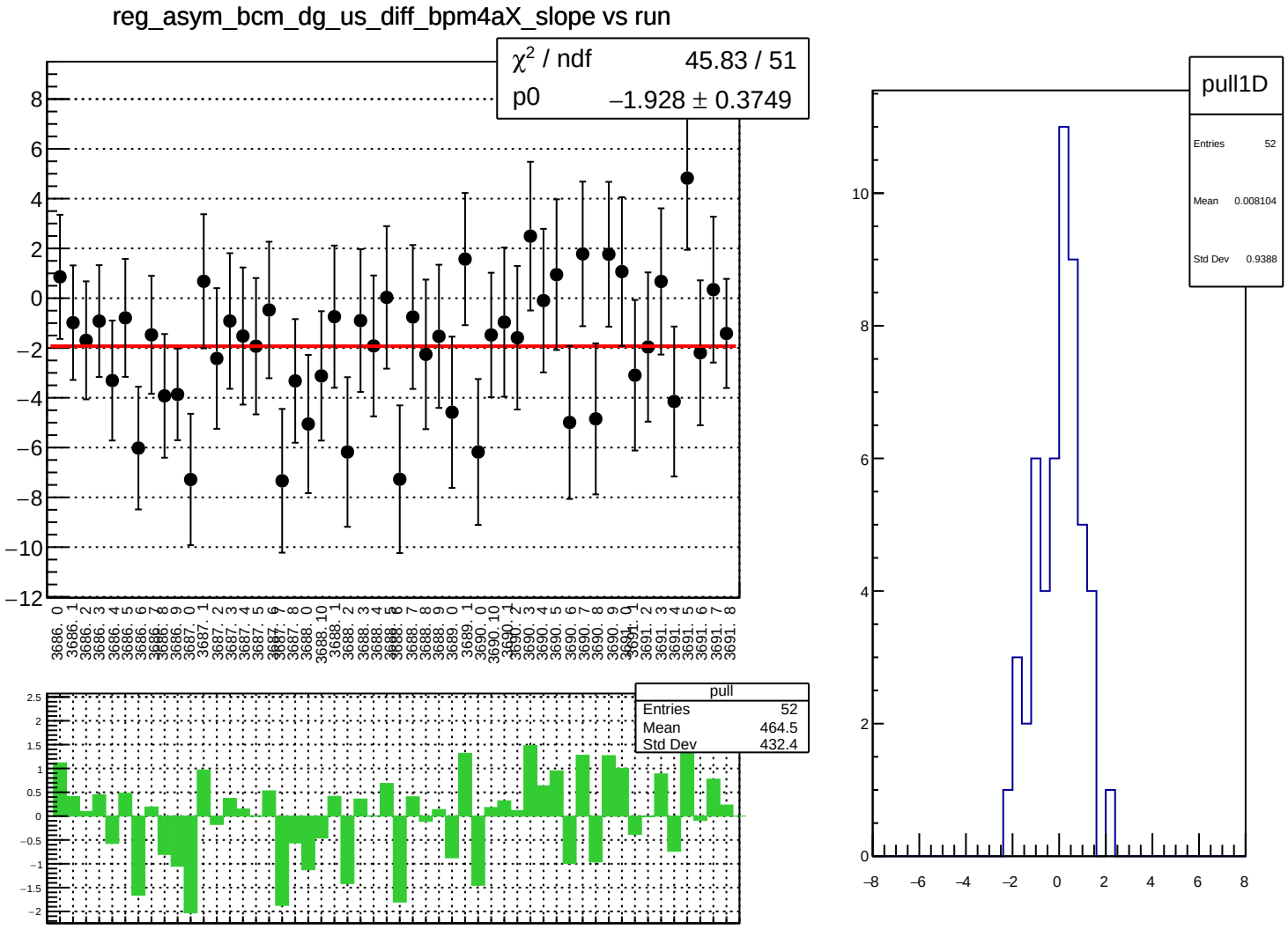

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 59.96 / 51
p0 3.203 ± 0.07269
pull
Entries 52
Mean 145
Std Dev 124.8
pull1D
Entries 52
Mean 0.064
Std Dev 1.072

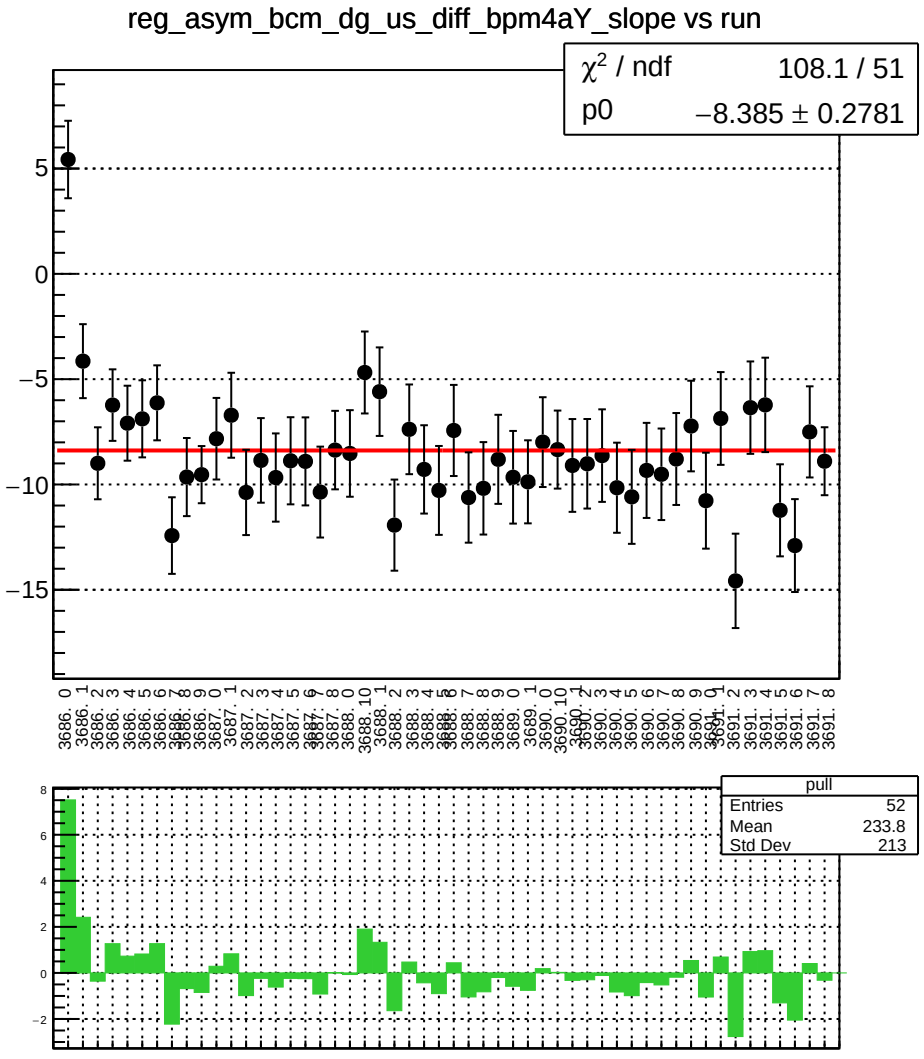

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 125 / 51
p0 14.5 ± 0.4296
pull
Entries 52
Mean 208.3
Std Dev 186.3

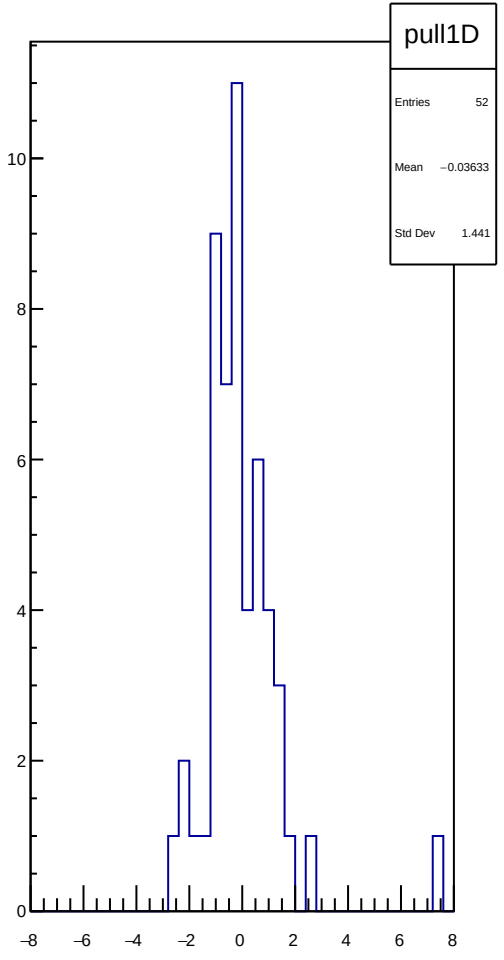

pull1D
Entries 52
Mean 0.06412
Std Dev 1.549

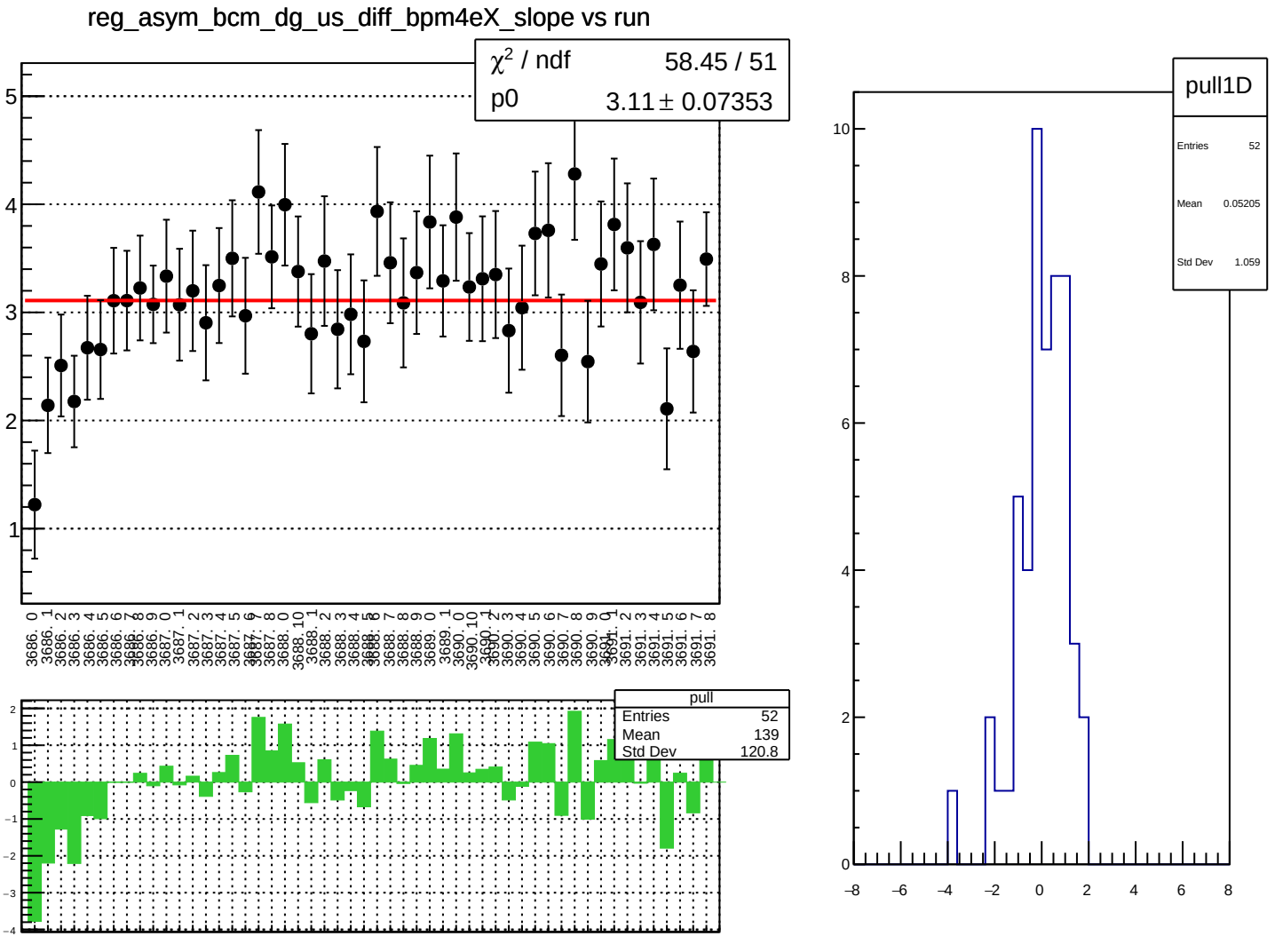

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 84.23 / 51
p0 3.923 ± 0.09281
pull
Entries 52
Mean 182.4
Std Dev 159

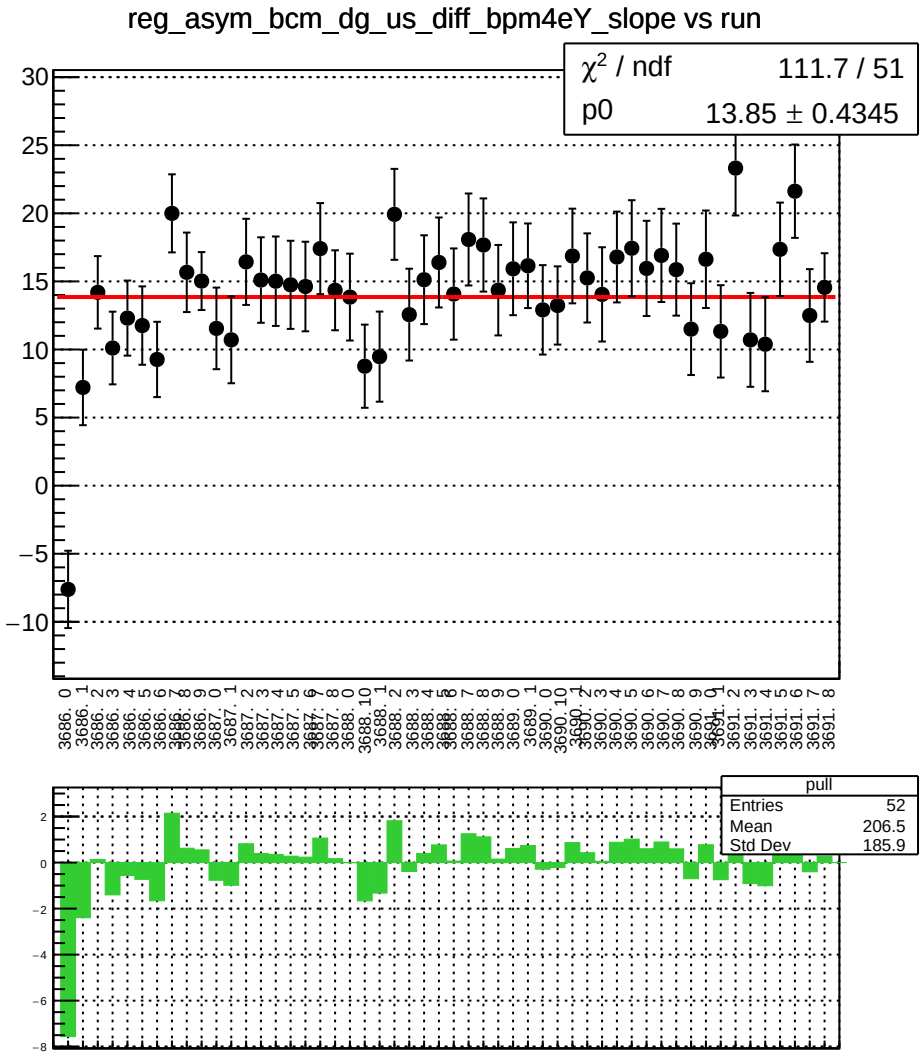

pull1D
Entries 52
Mean 0.08165
Std Dev 1.27

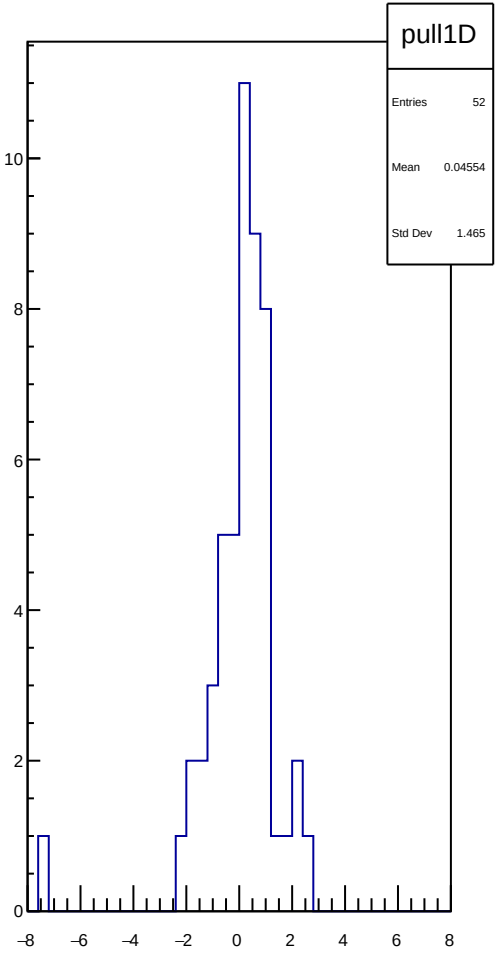

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 45.83 / 51
p0 −1.928 ± 0.3749
pull
Entries 52
Mean 464.5
Std Dev 432.4
pull1D
Entries 52
Mean 0.008104
Std Dev 0.9388

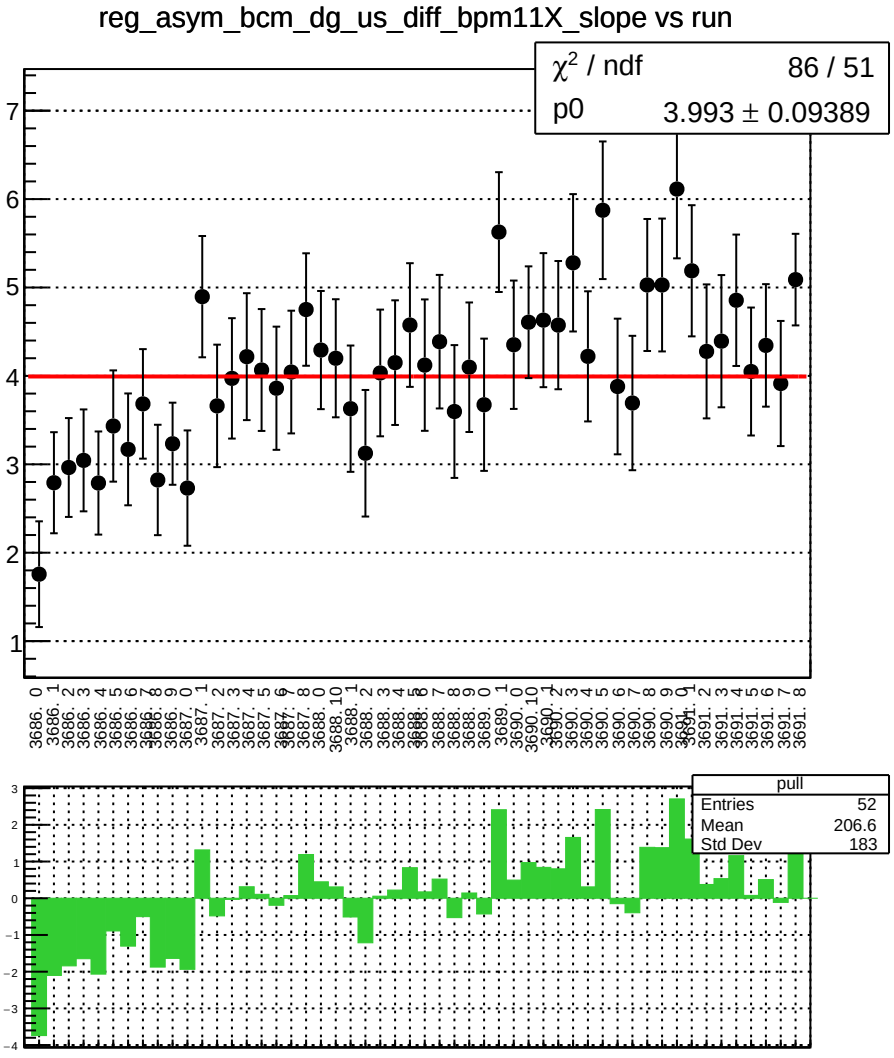

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 108.1 / 51
p0 −8.385 ± 0.2781
pull
Entries 52
Mean 233.8
Std Dev 213

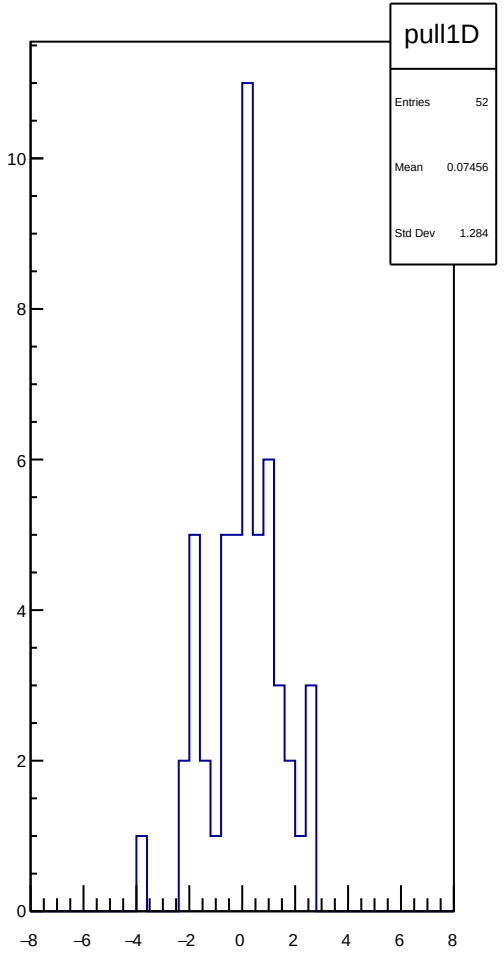

pull1D
Entries 52
Mean −0.03633
Std Dev 1.441

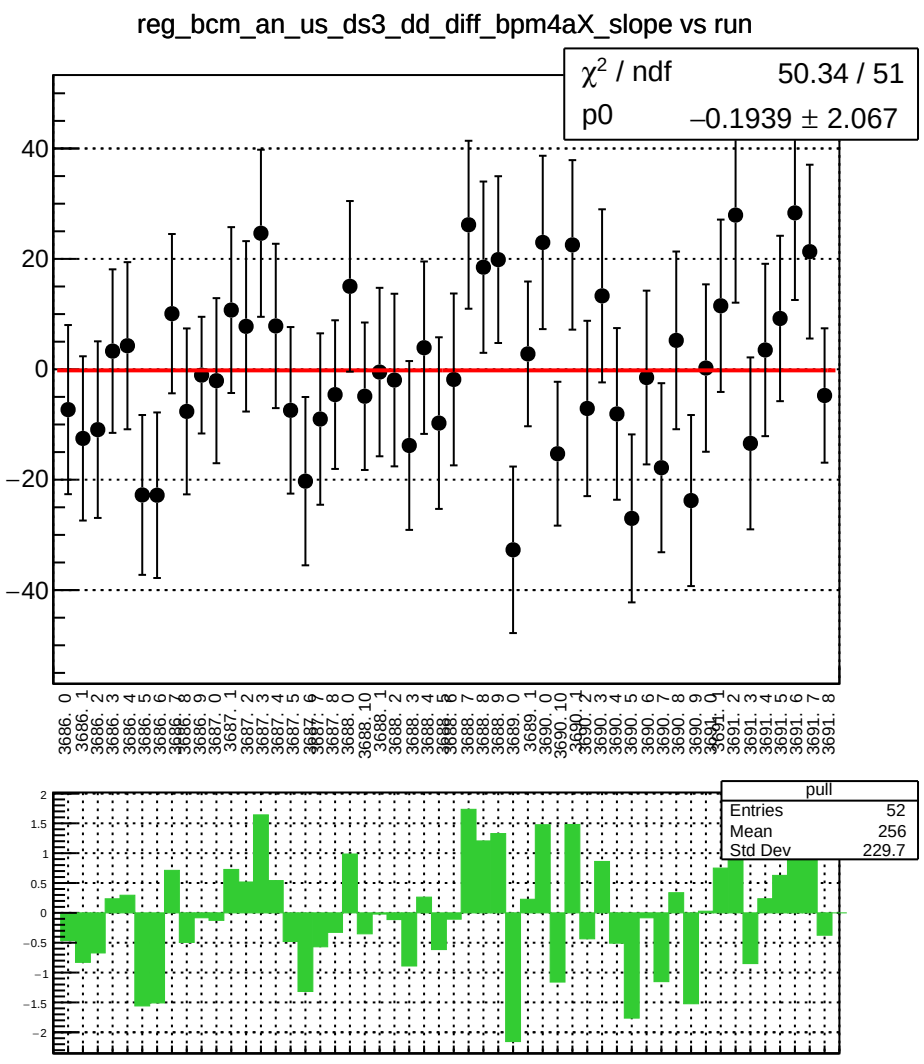

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 58.45 / 51
p0 3.11 ± 0.07353
pull
Entries 52
Mean 139
Std Dev 120.8
pull1D
Entries 52
Mean 0.05205
Std Dev 1.059

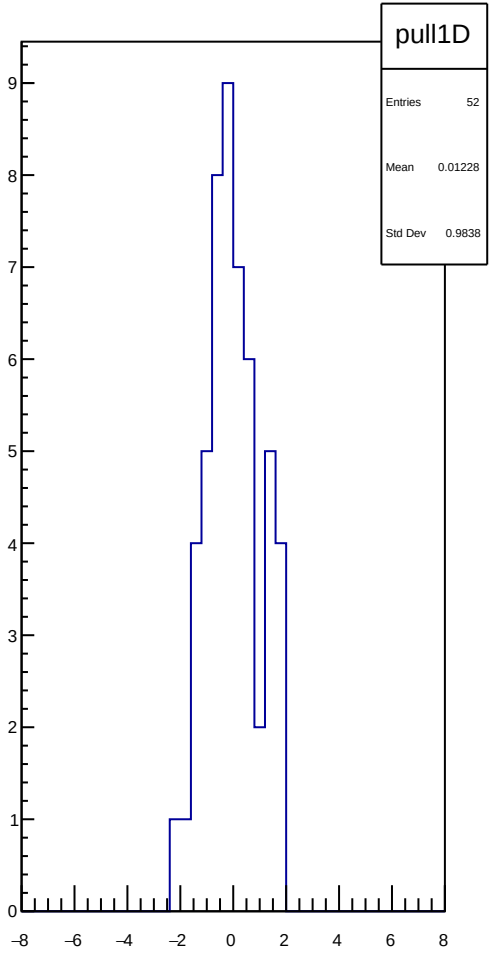

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 111.7 / 51
p0 13.85 ± 0.4345
pull
Entries 52
Mean 206.5
Std Dev 185.9

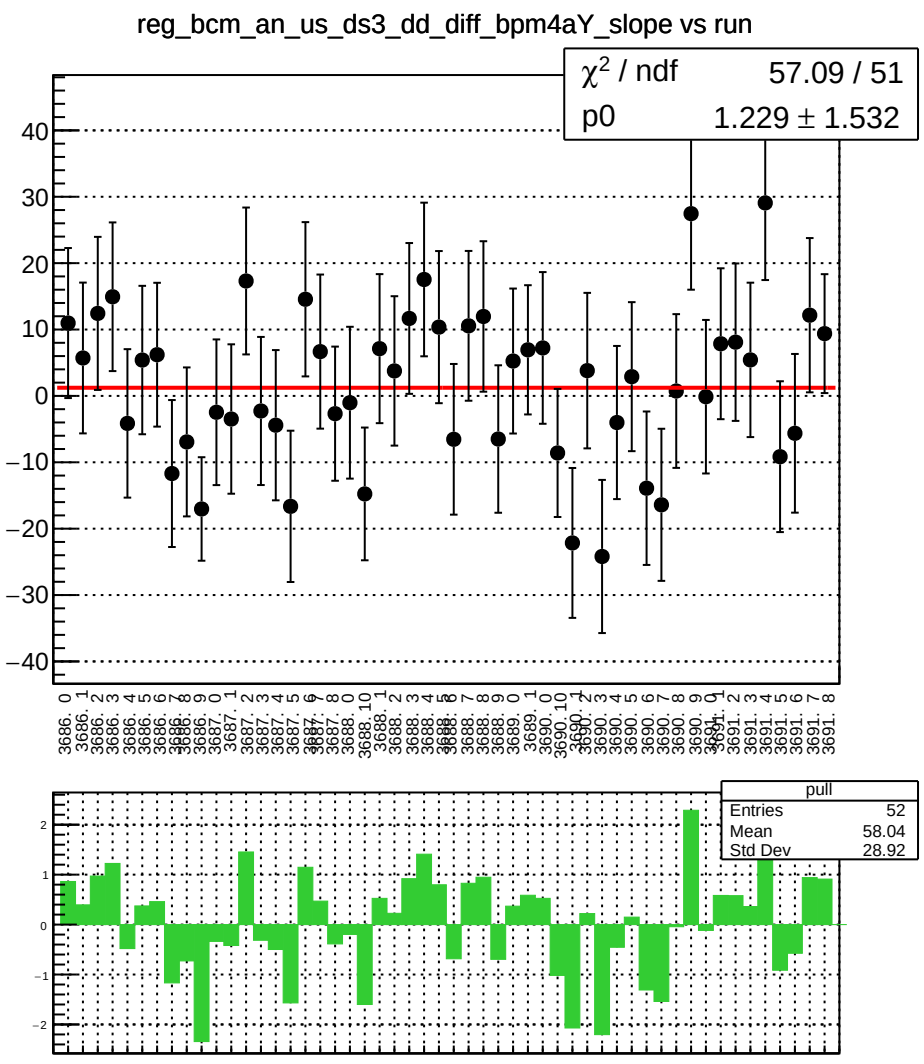

pull1D
Entries 52
Mean 0.04554
Std Dev 1.465

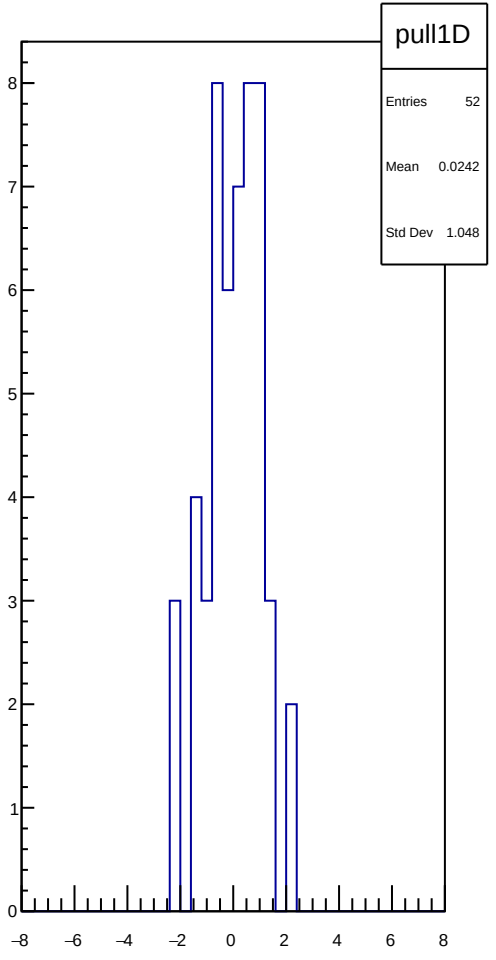

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 86 / 51
p0 3.993 ± 0.09389
pull
Entries 52
Mean 206.6
Std Dev 183

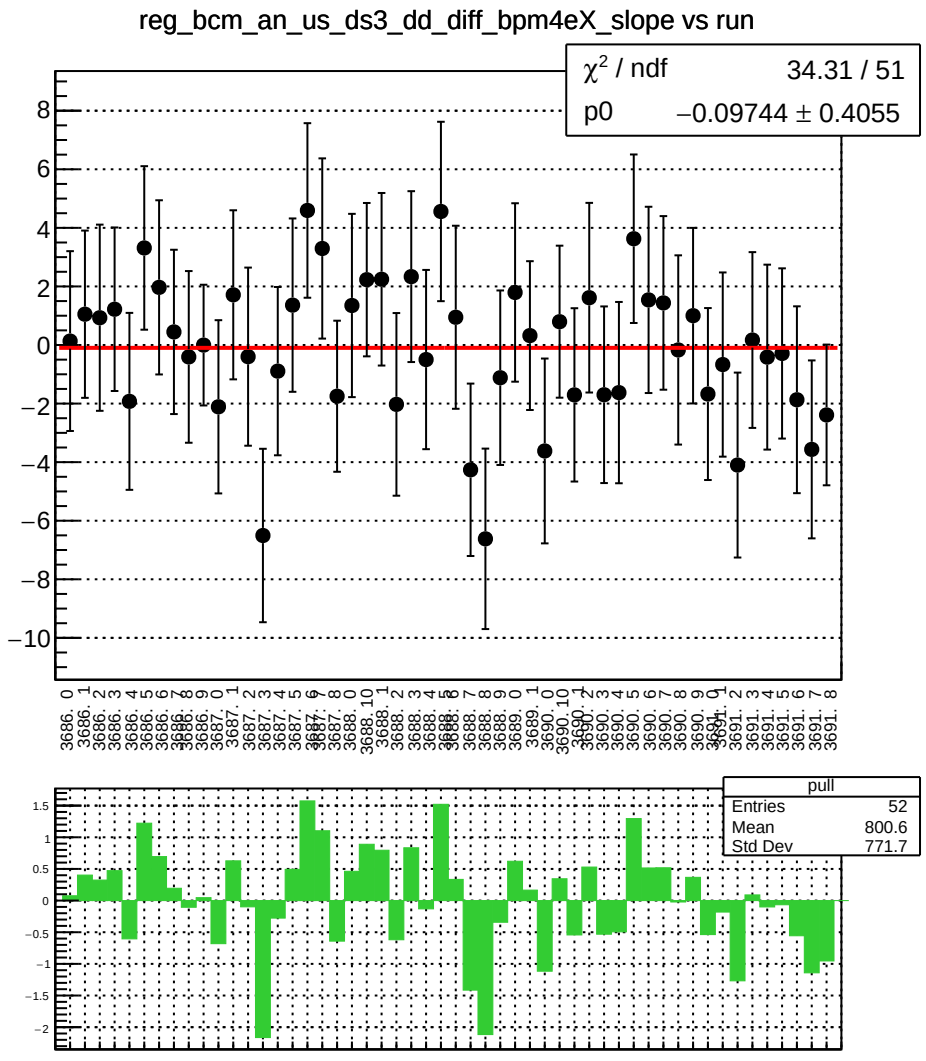

pull1D
Entries 52
Mean 0.07456
Std Dev 1.284

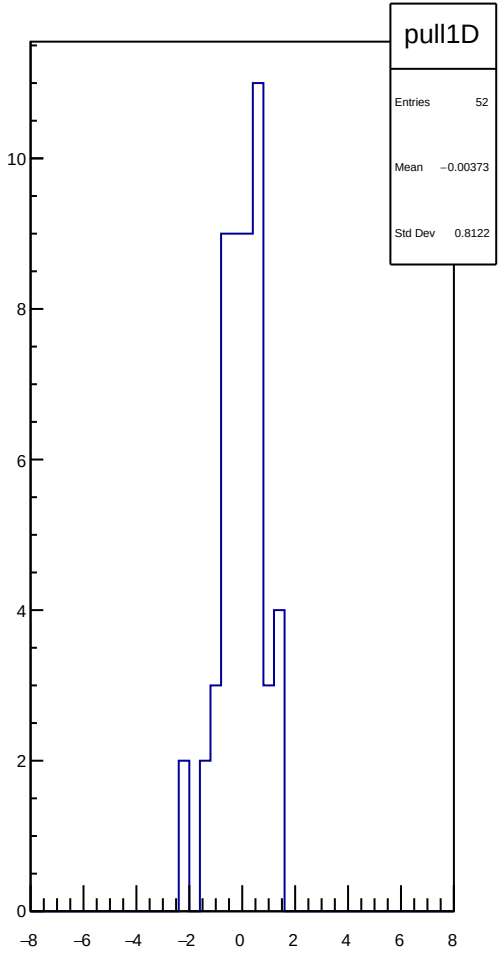

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 50.34 / 51
p0 −0.1939 ± 2.067
pull
Entries 52
Mean 256
Std Dev 229.7

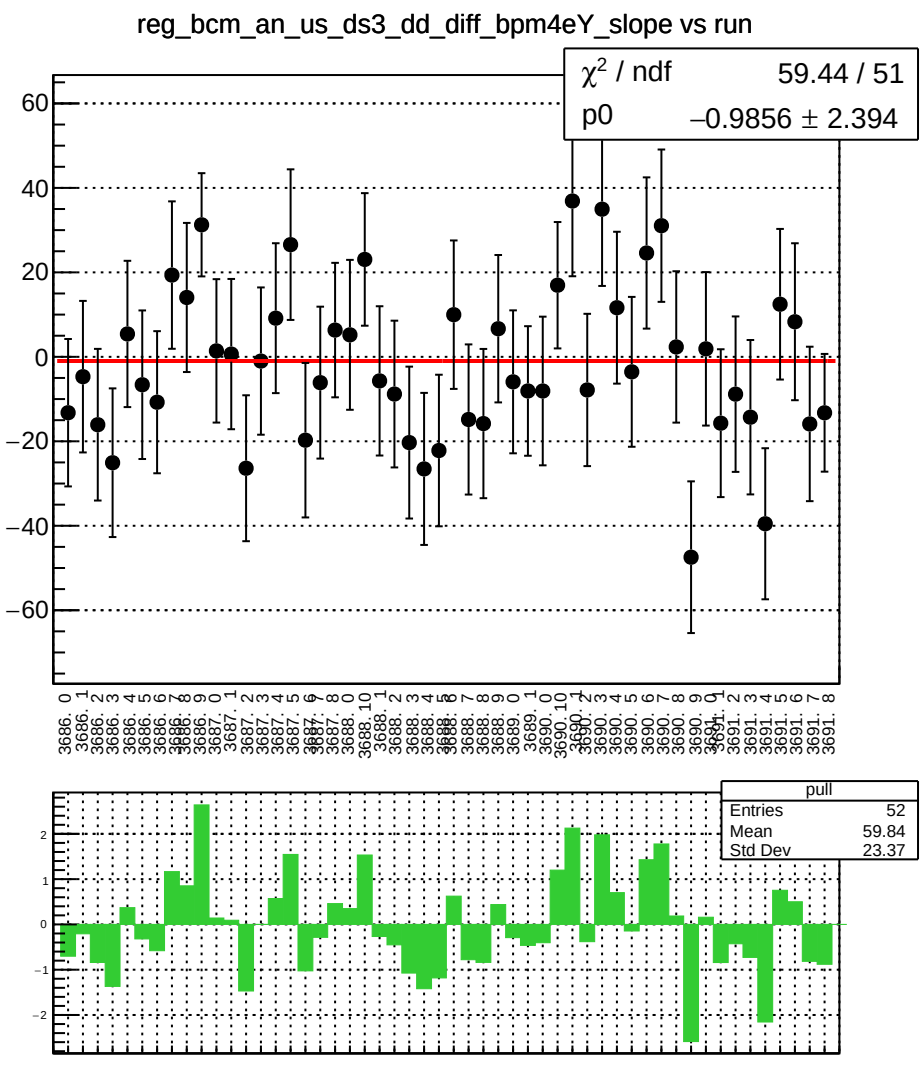

pull1D
Entries 52
Mean 0.01228
Std Dev 0.9838

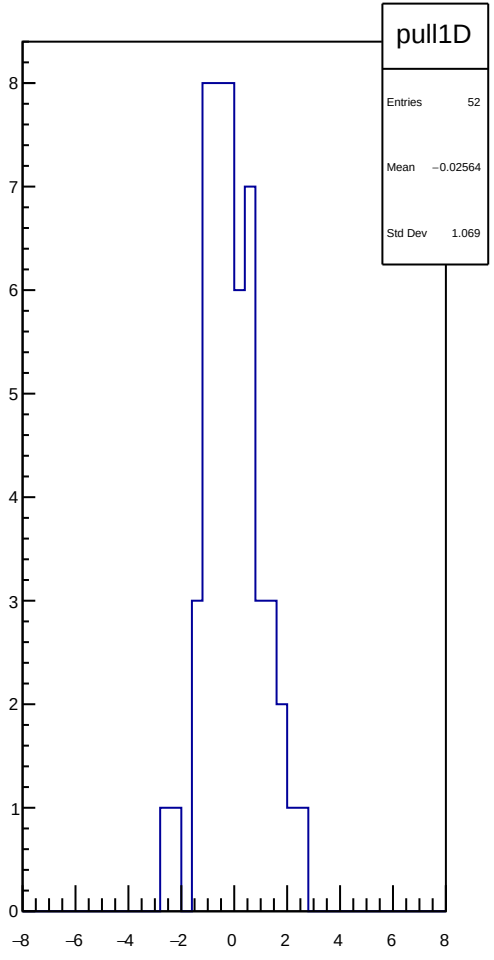

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.09 / 51
p0 1.229 ± 1.532
pull
Entries 52
Mean 58.04
Std Dev 28.92

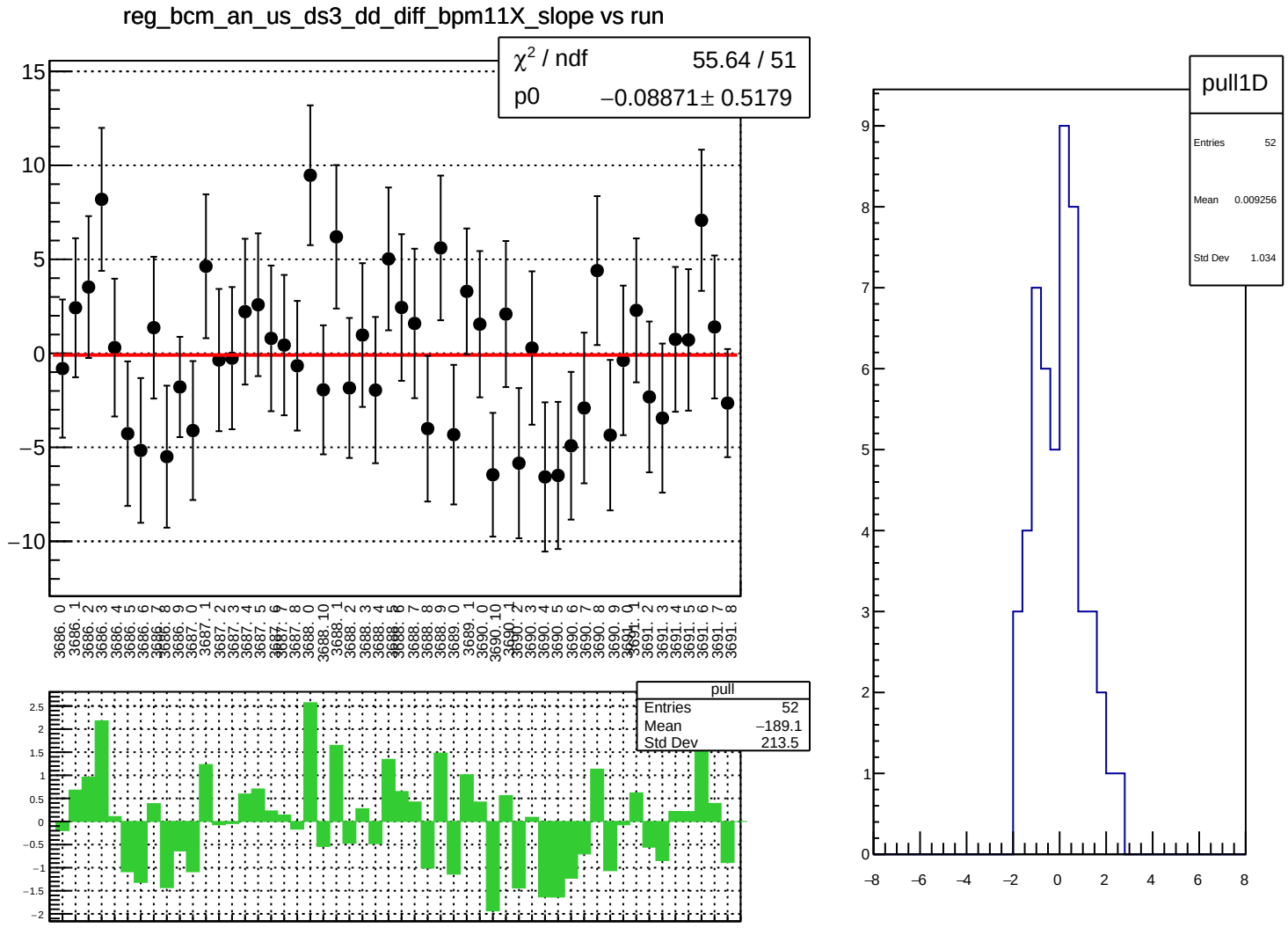

pull1D
Entries 52
Mean 0.0242
Std Dev 1.048

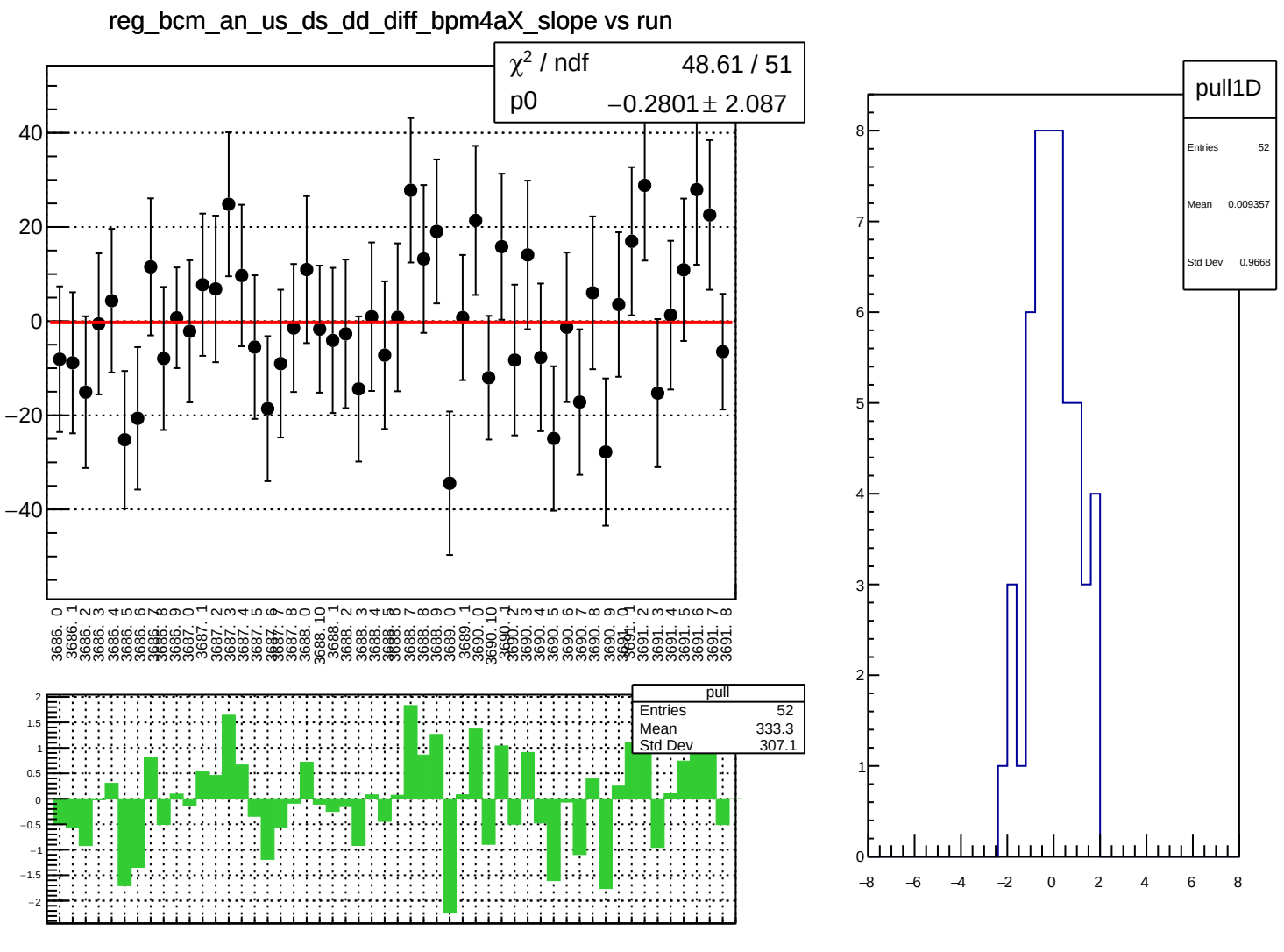

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.31 / 51
p0 −0.09744 ± 0.4055
pull
Entries 52
Mean 800.6
Std Dev 771.7

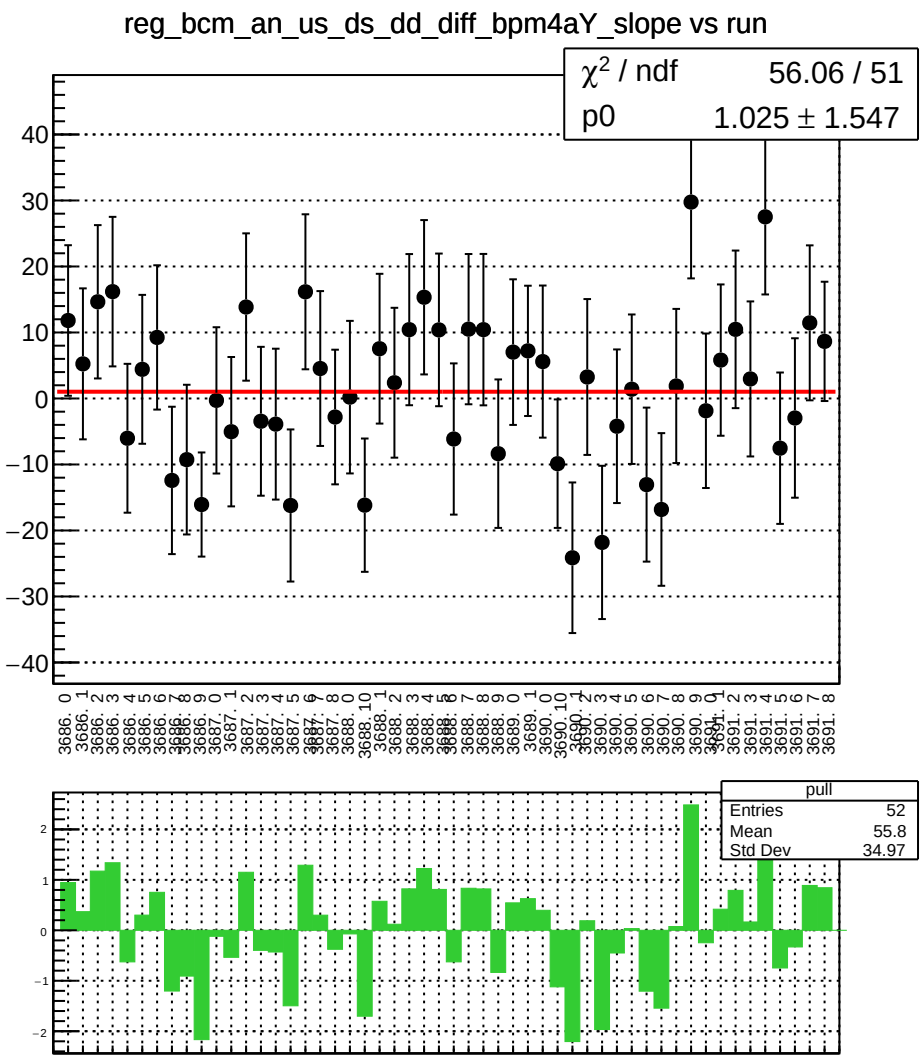

pull1D
Entries 52
Mean −0.00373
Std Dev 0.8122

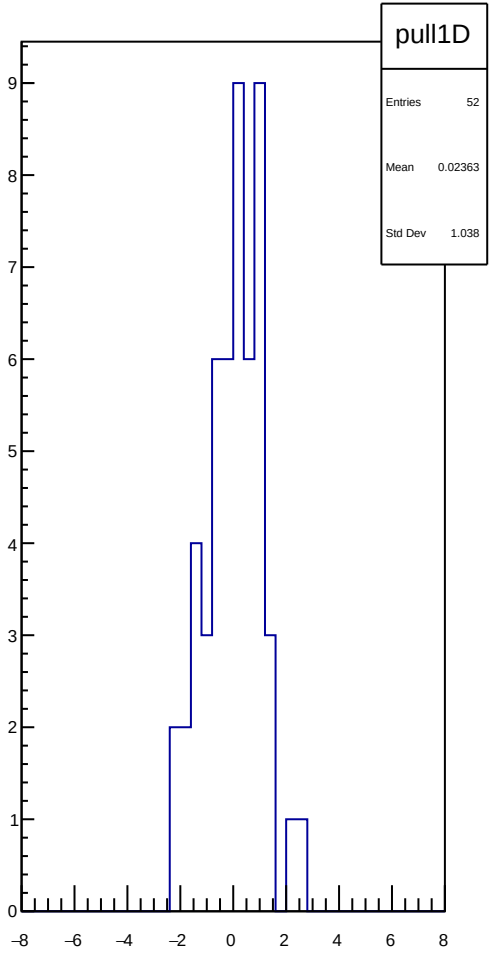

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.44 / 51
p0 −0.9856 ± 2.394
pull
Entries 52
Mean 59.84
Std Dev 23.37

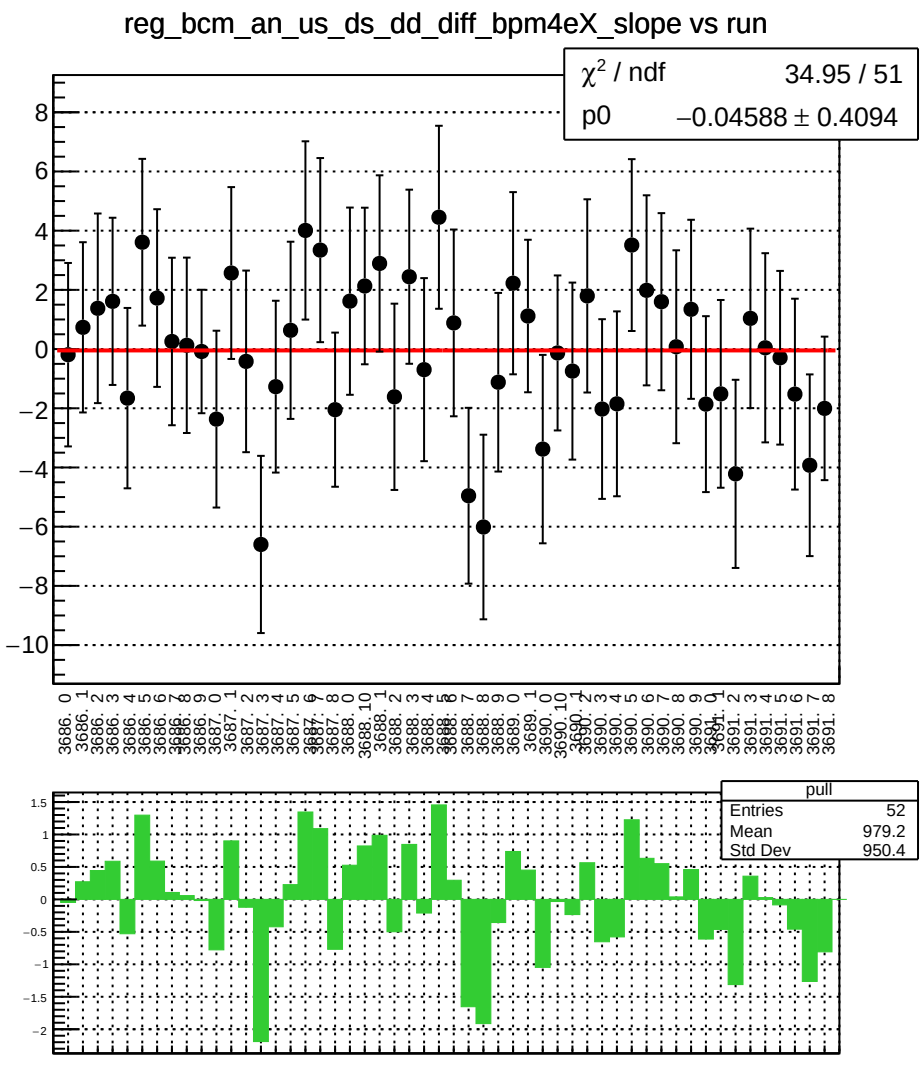

pull1D
Entries 52
Mean −0.02564
Std Dev 1.069

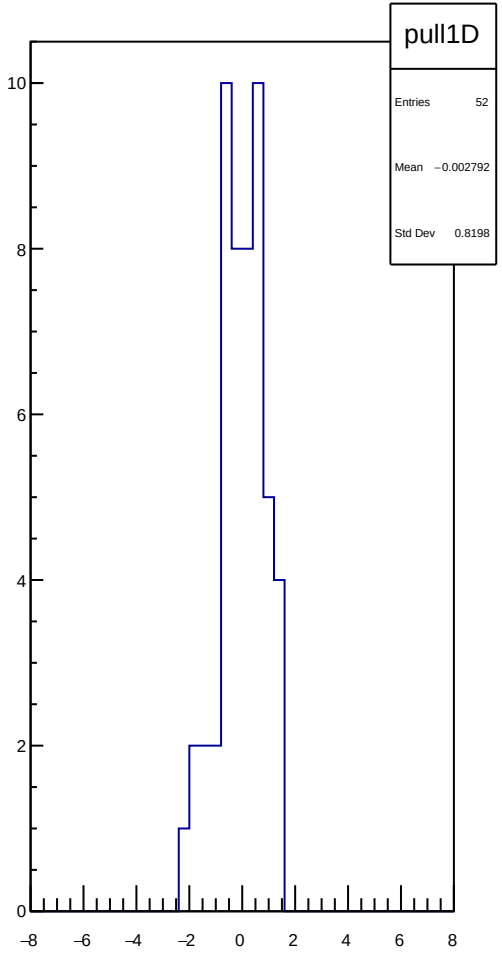

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 55.64 / 51
p0 −0.08871± 0.5179
pull
Entries 52
Mean −189.1
Std Dev 213.5
pull1D
Entries 52
Mean 0.009256
Std Dev 1.034

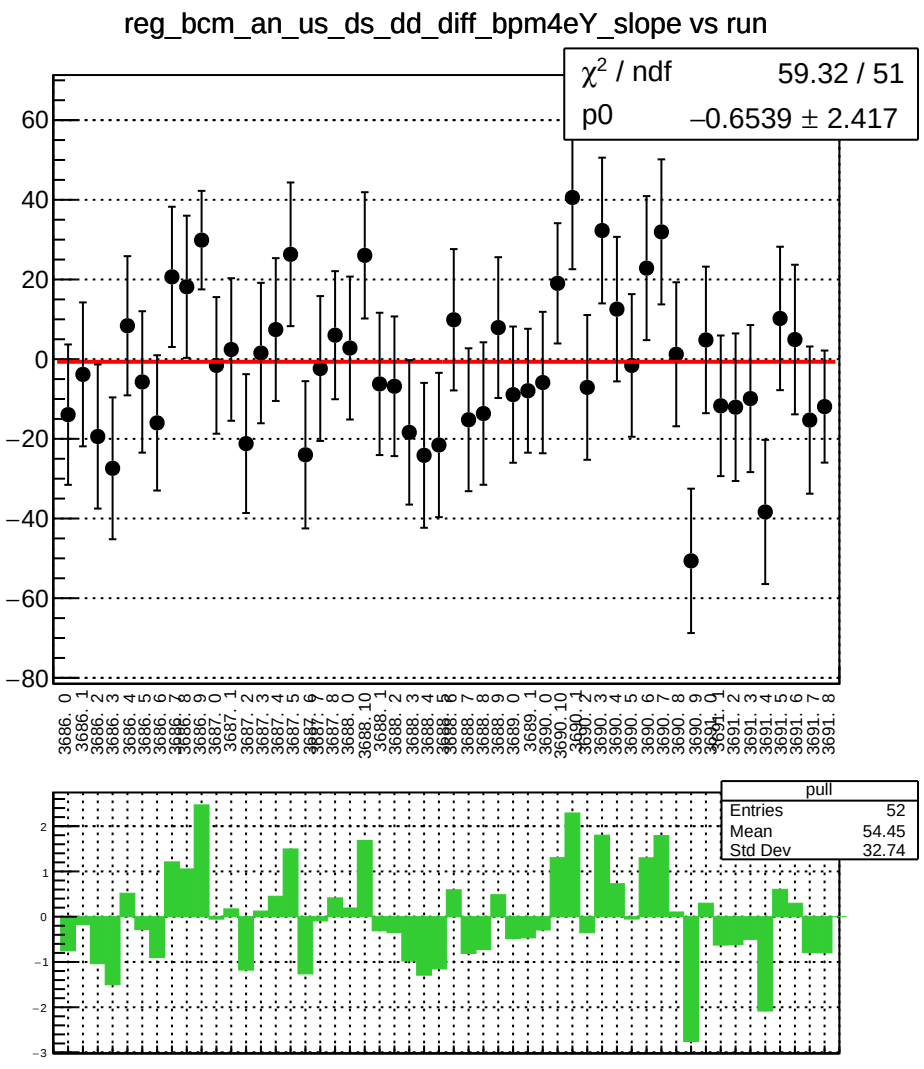

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 48.61 / 51
p0 −0.2801 ± 2.087
pull
Entries 52
Mean 333.3
Std Dev 307.1
pull1D
Entries 52
Mean 0.009357
Std Dev 0.9668

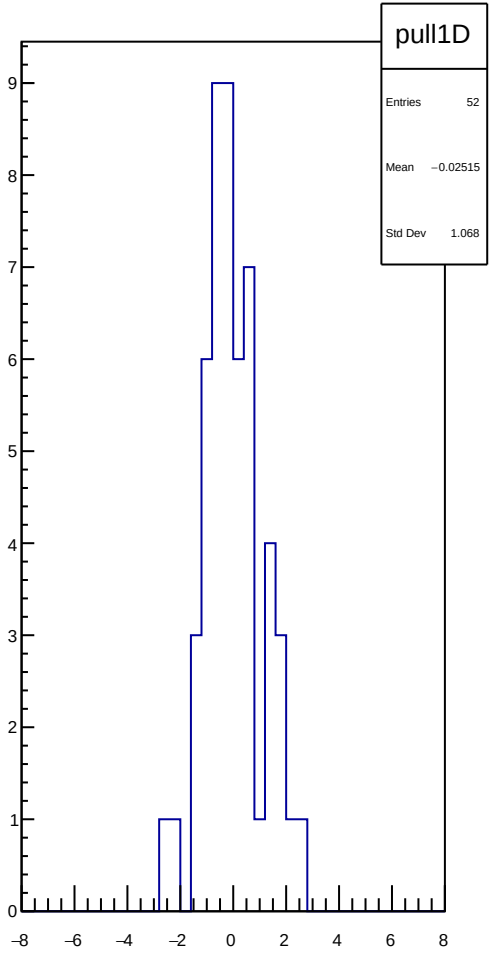

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.06 / 51
p0 1.025 ± 1.547
pull
Entries 52
Mean 55.8
Std Dev 34.97

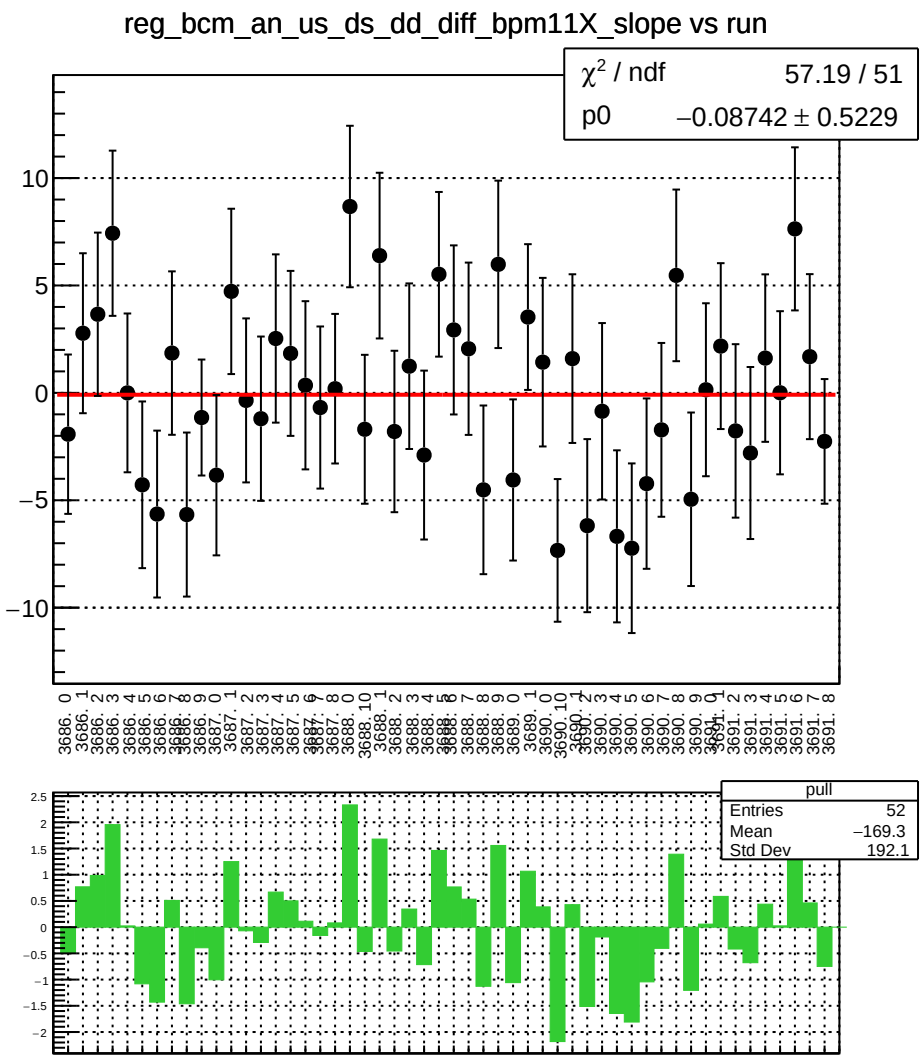

pull1D
Entries 52
Mean 0.02363
Std Dev 1.038

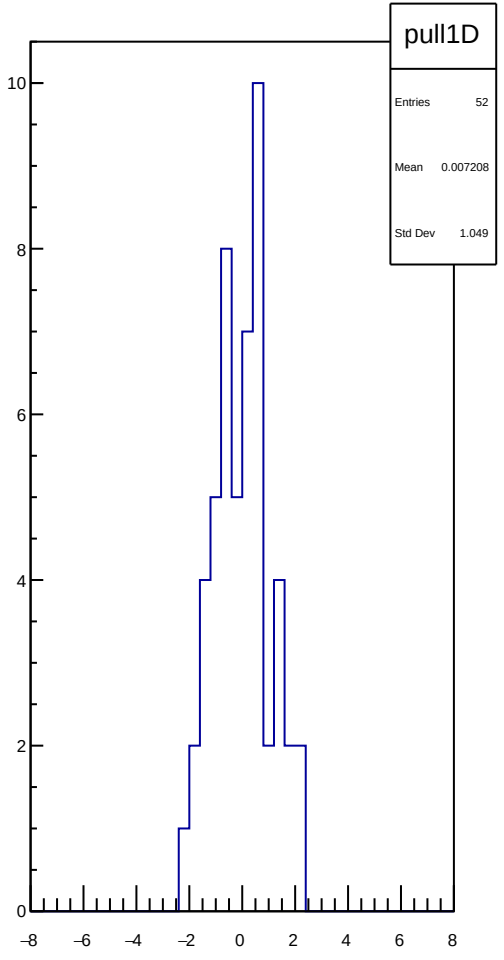

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.95 / 51
p0 −0.04588 ± 0.4094
pull
Entries 52
Mean 979.2
Std Dev 950.4

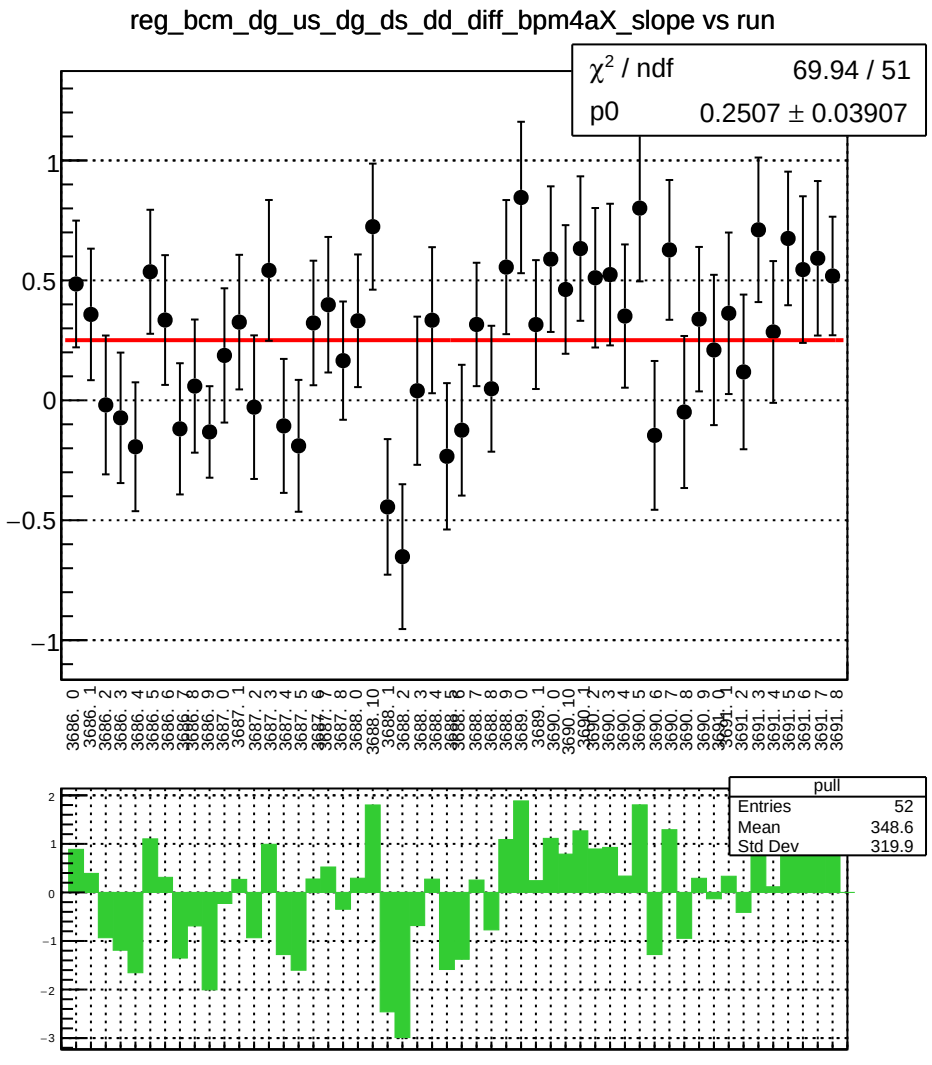

pull1D
Entries 52
Mean −0.002792
Std Dev 0.8198

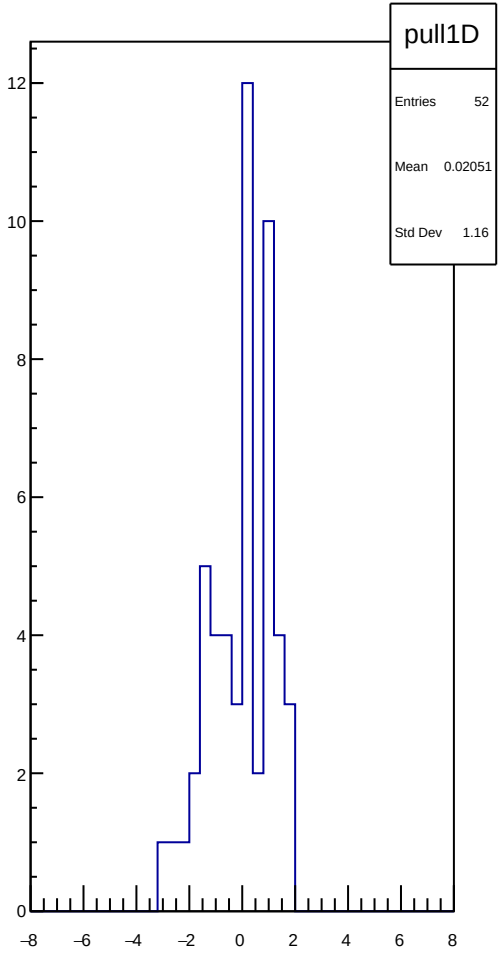

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.32 / 51
p0 −0.6539 ± 2.417
pull
Entries 52
Mean 54.45
Std Dev 32.74

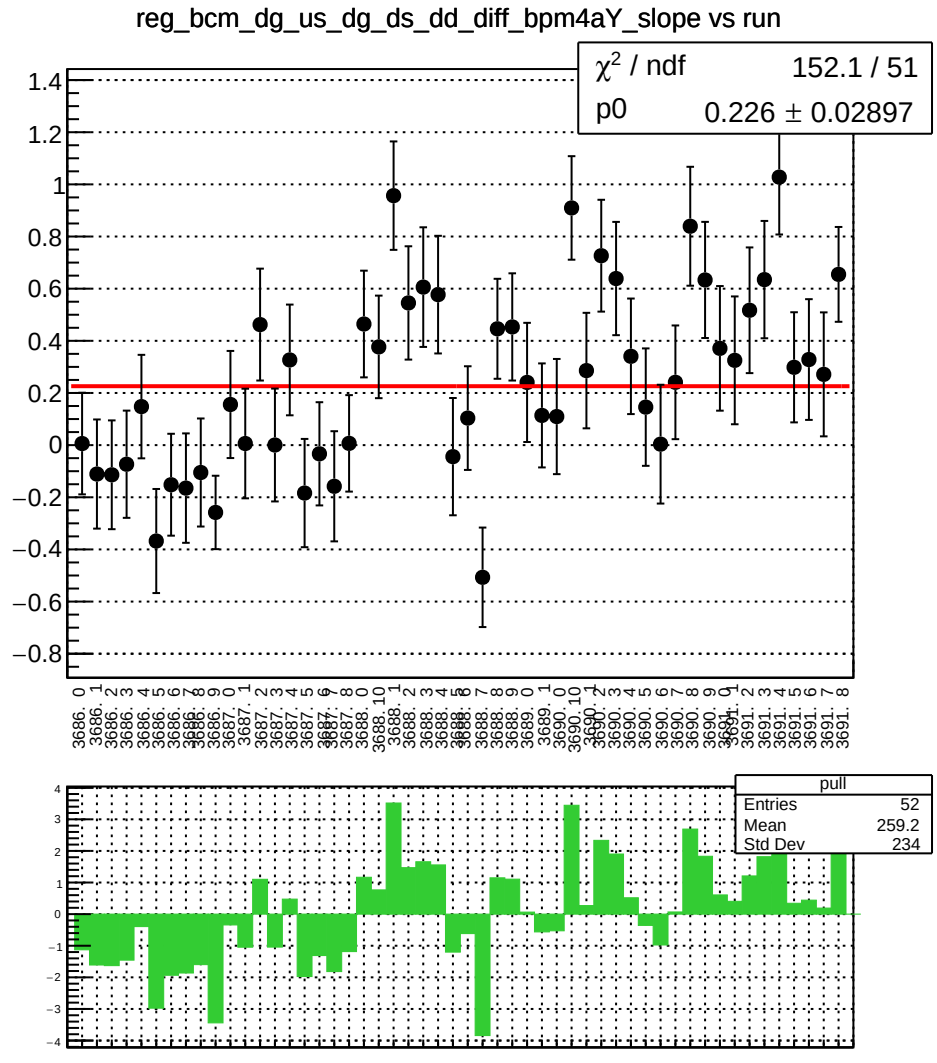

pull1D
Entries 52
Mean −0.02515
Std Dev 1.068

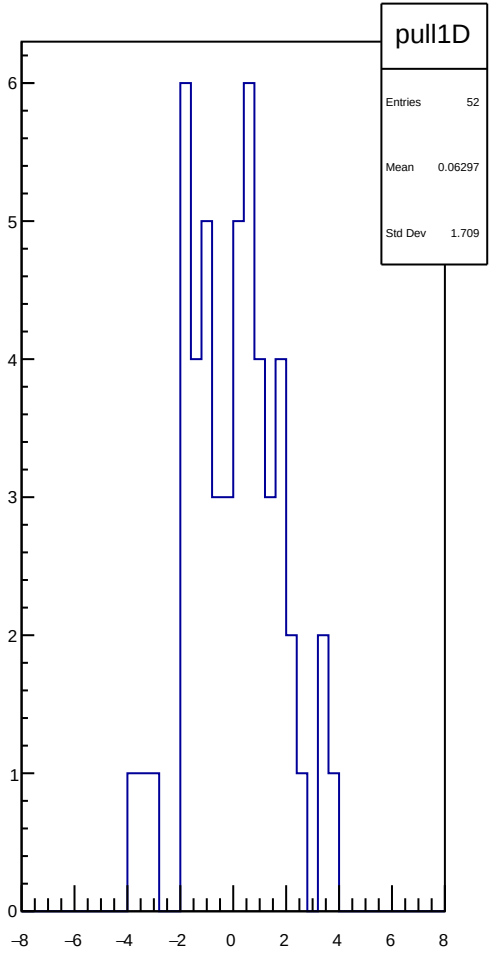

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 57.19 / 51
p0 −0.08742 ± 0.5229
pull
Entries 52
Mean −169.3
Std Dev 192.1

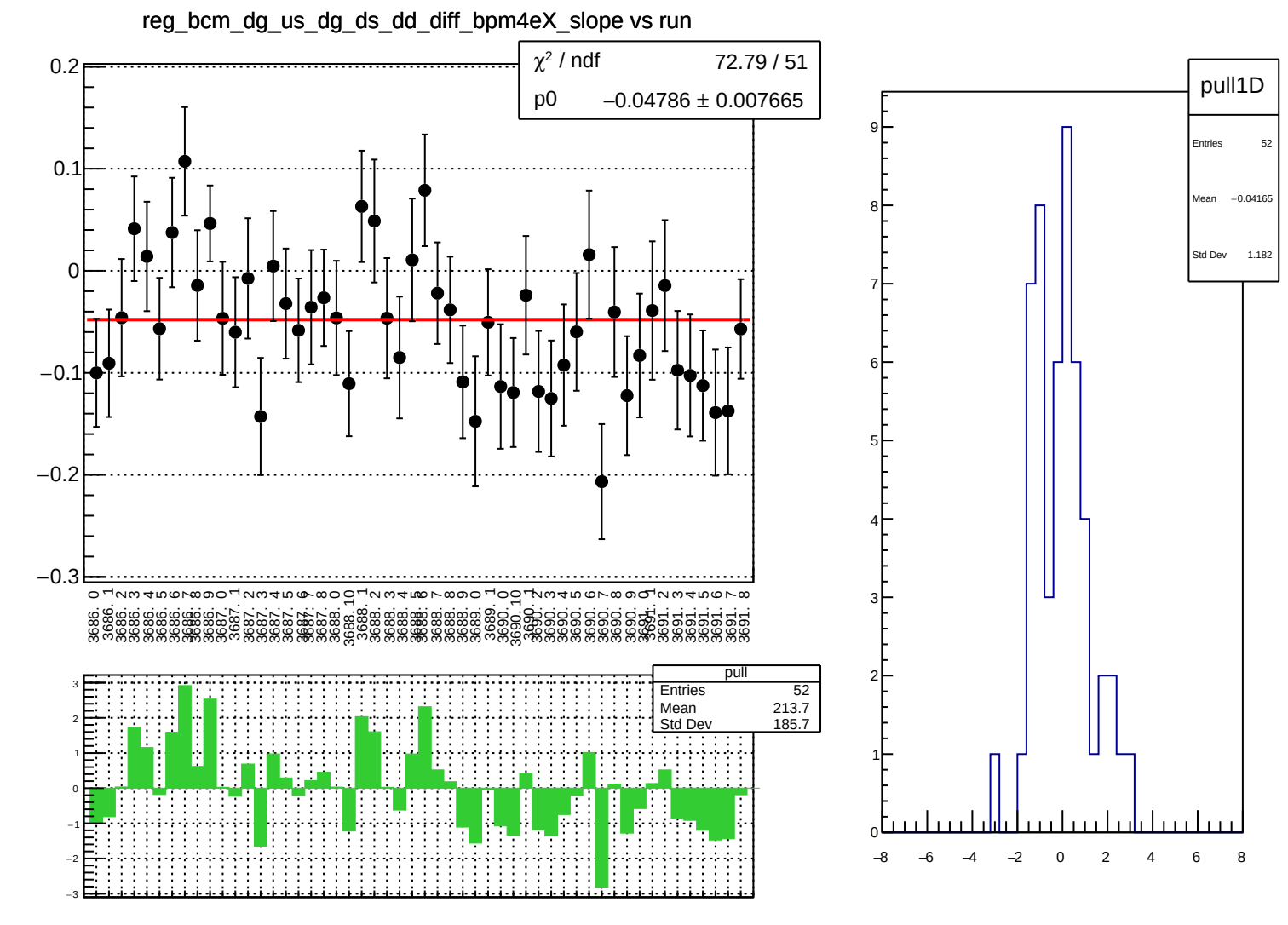

pull1D
Entries 52
Mean 0.007208
Std Dev 1.049

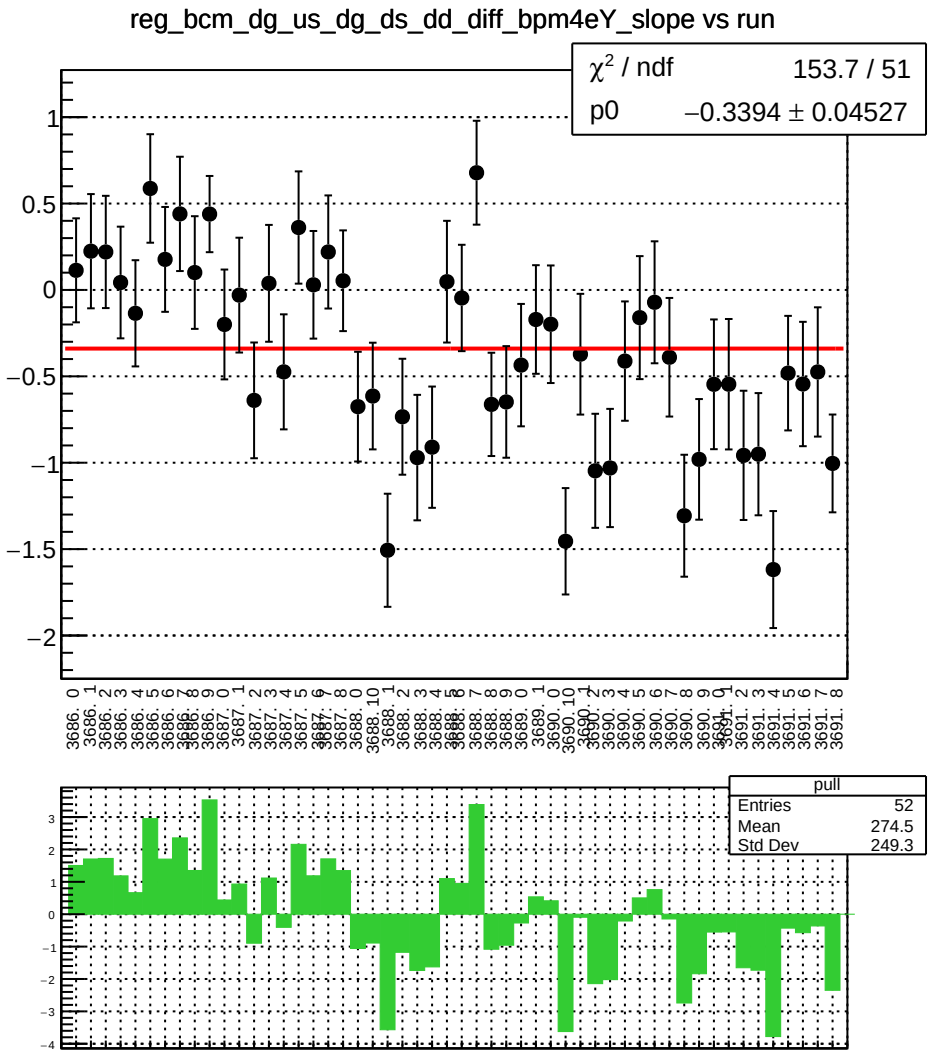

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 69.94 / 51
p0 0.2507 ± 0.03907
pull
Entries 52
Mean 348.6
Std Dev 319.9

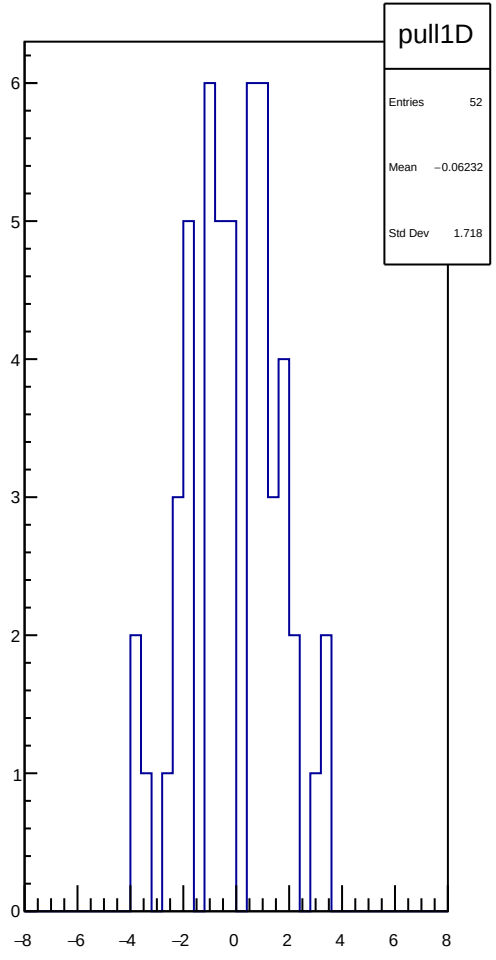

pull1D
Entries 52
Mean 0.02051
Std Dev 1.16

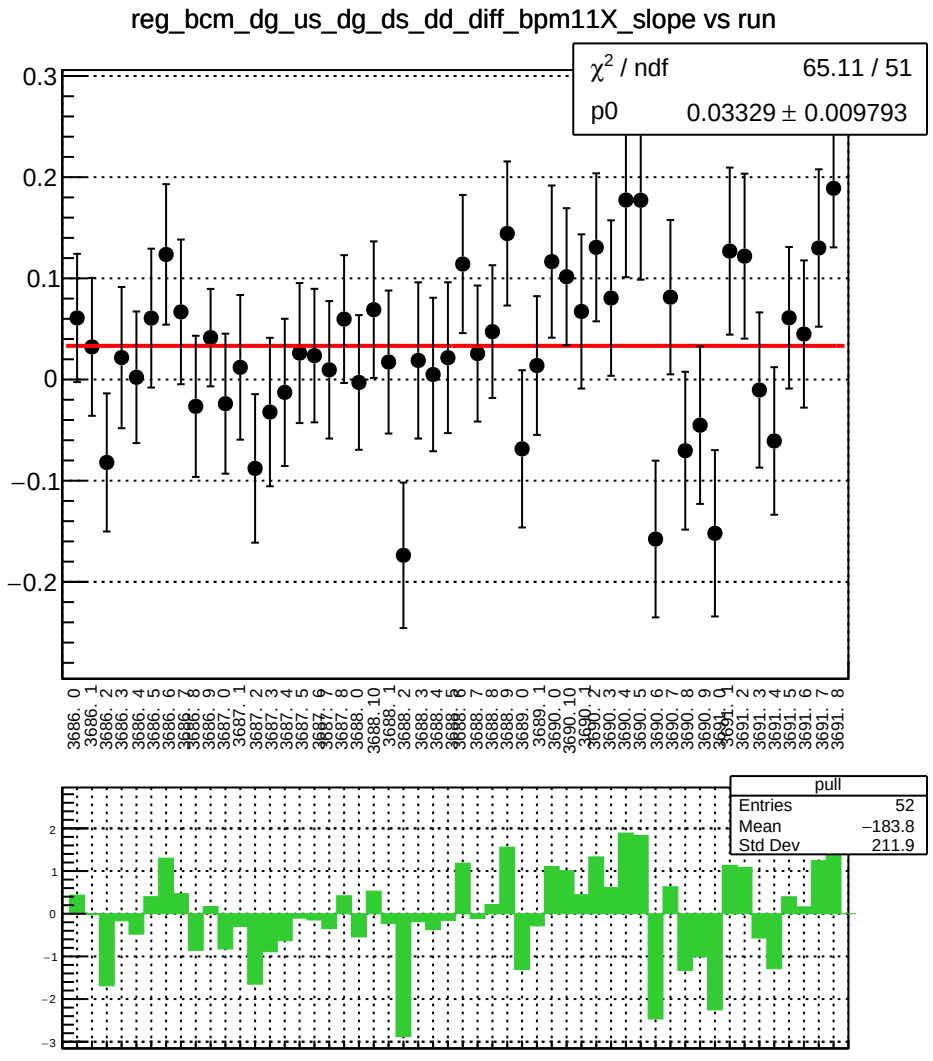

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 152.1 / 51
p0 0.226 ± 0.02897
pull
Entries 52
Mean 259.2
Std Dev 234

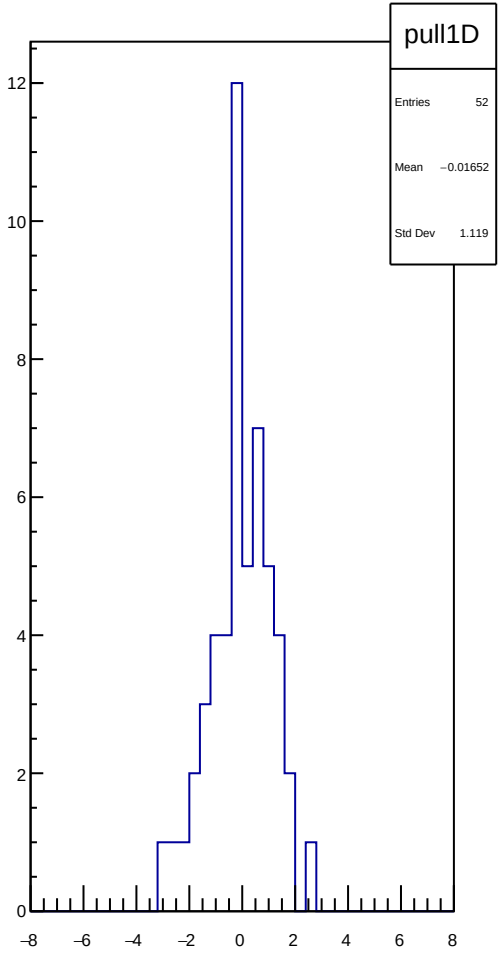

pull1D
Entries 52
Mean 0.06297
Std Dev 1.709

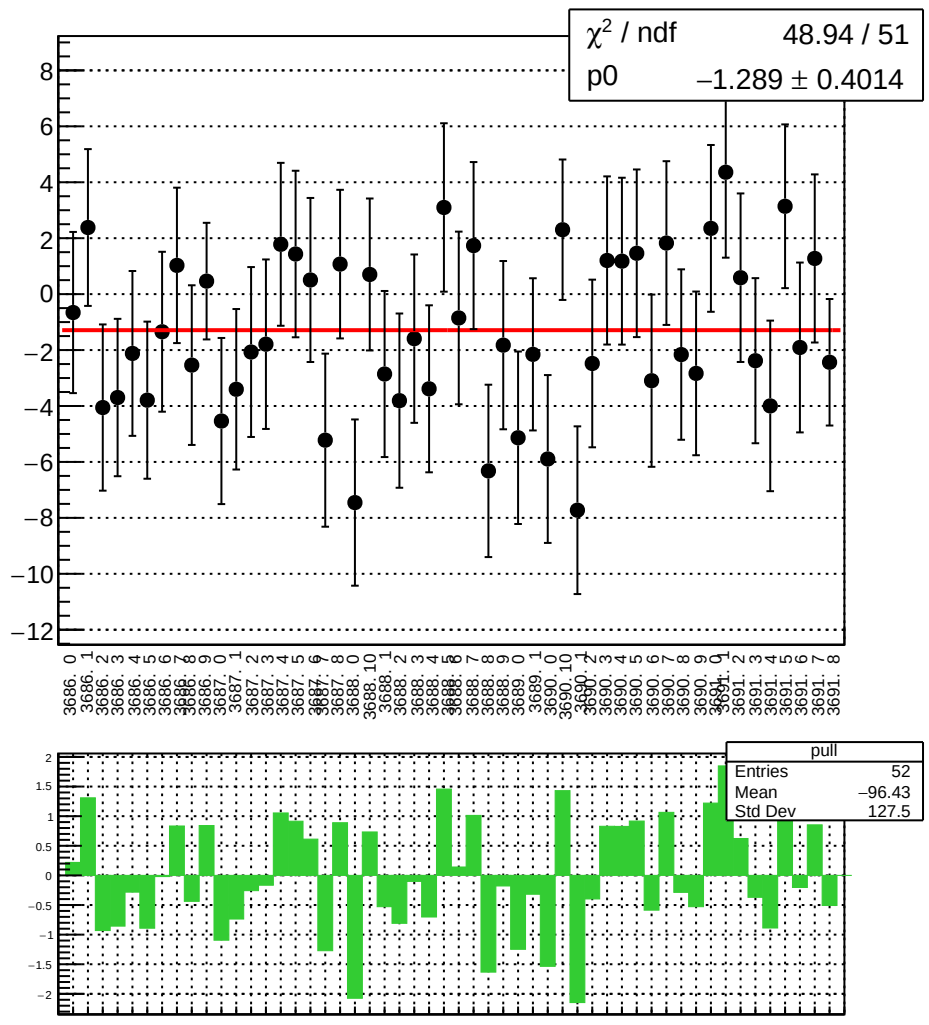

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.79 / 51
p0 −0.04786 ± 0.007665
pull
Entries 52
Mean 213.7
Std Dev 185.7
pull1D
Entries 52
Mean −0.04165
Std Dev 1.182

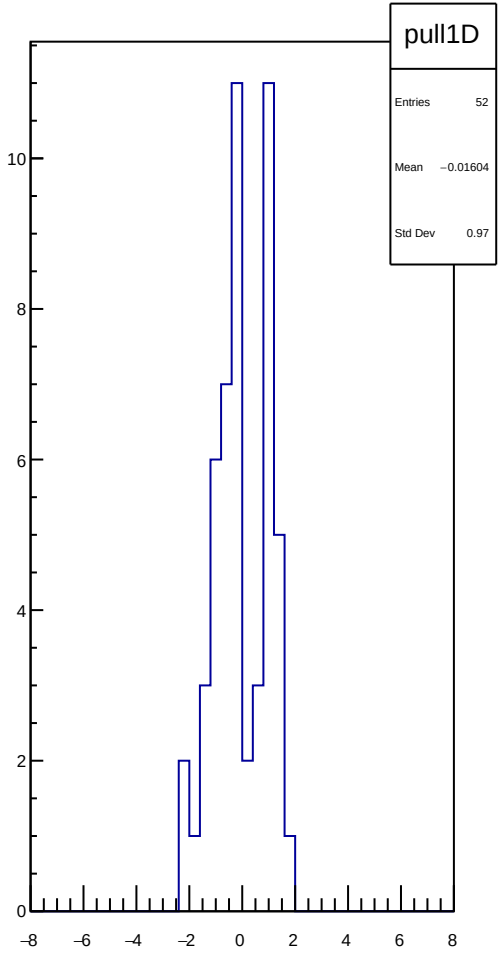

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 153.7 / 51
p0 −0.3394 ± 0.04527
pull
Entries 52
Mean 274.5
Std Dev 249.3

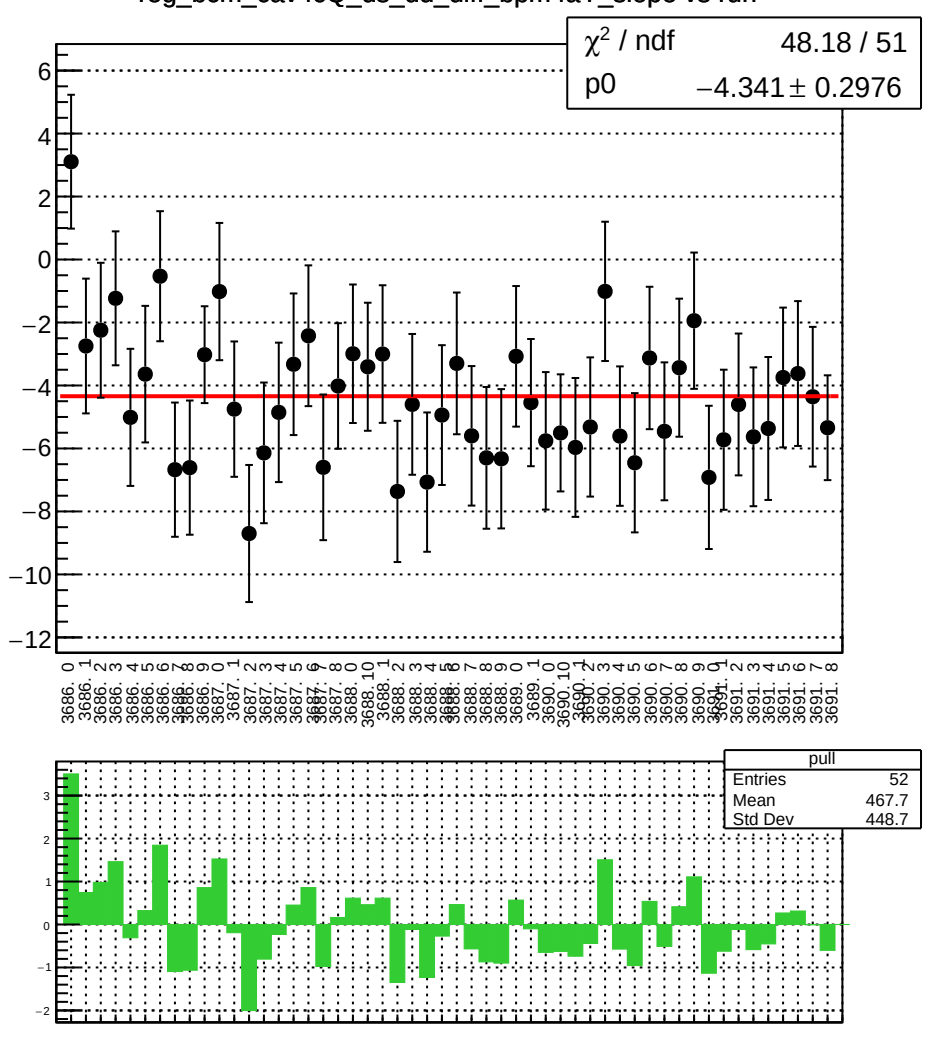

pull1D
Entries 52
Mean −0.06232
Std Dev 1.718

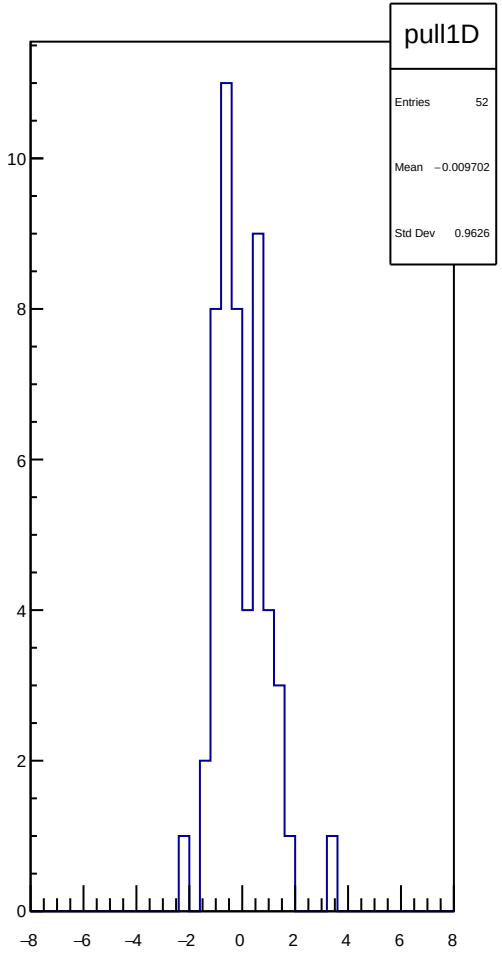

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 65.11 / 51
p0 0.03329 ± 0.009793
pull
Entries 52
Mean −183.8
Std Dev 211.9

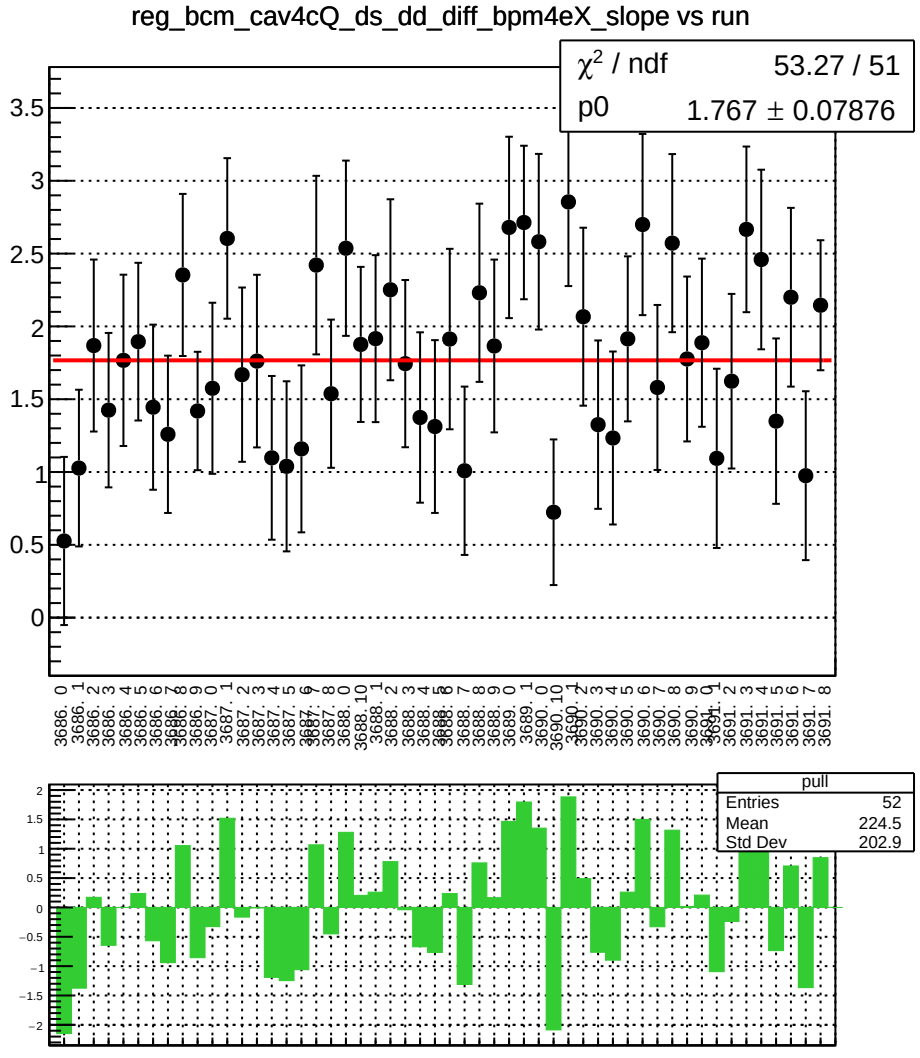

pull1D
Entries 52
Mean −0.01652
Std Dev 1.119

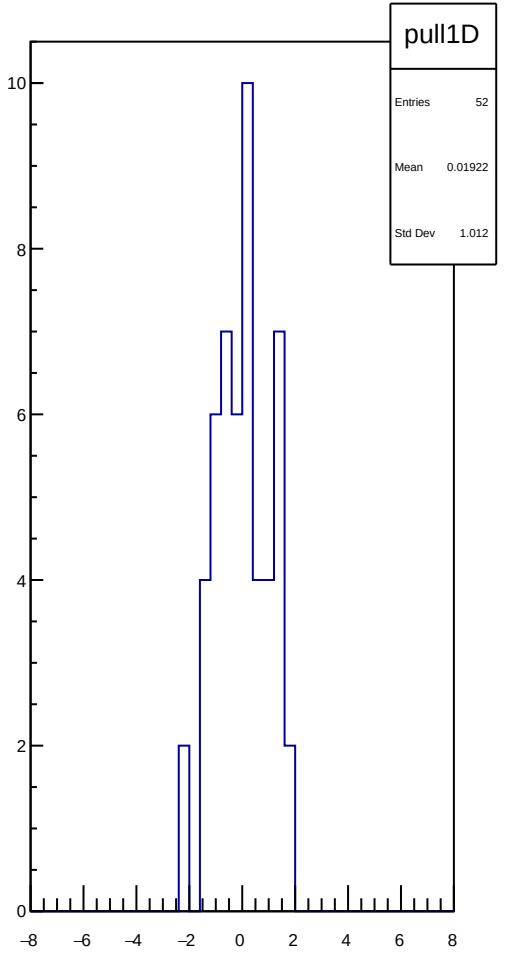

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 48.94 / 51
p0 −1.289 ± 0.4014
pull
Entries 52
Mean −96.43
Std Dev 127.5

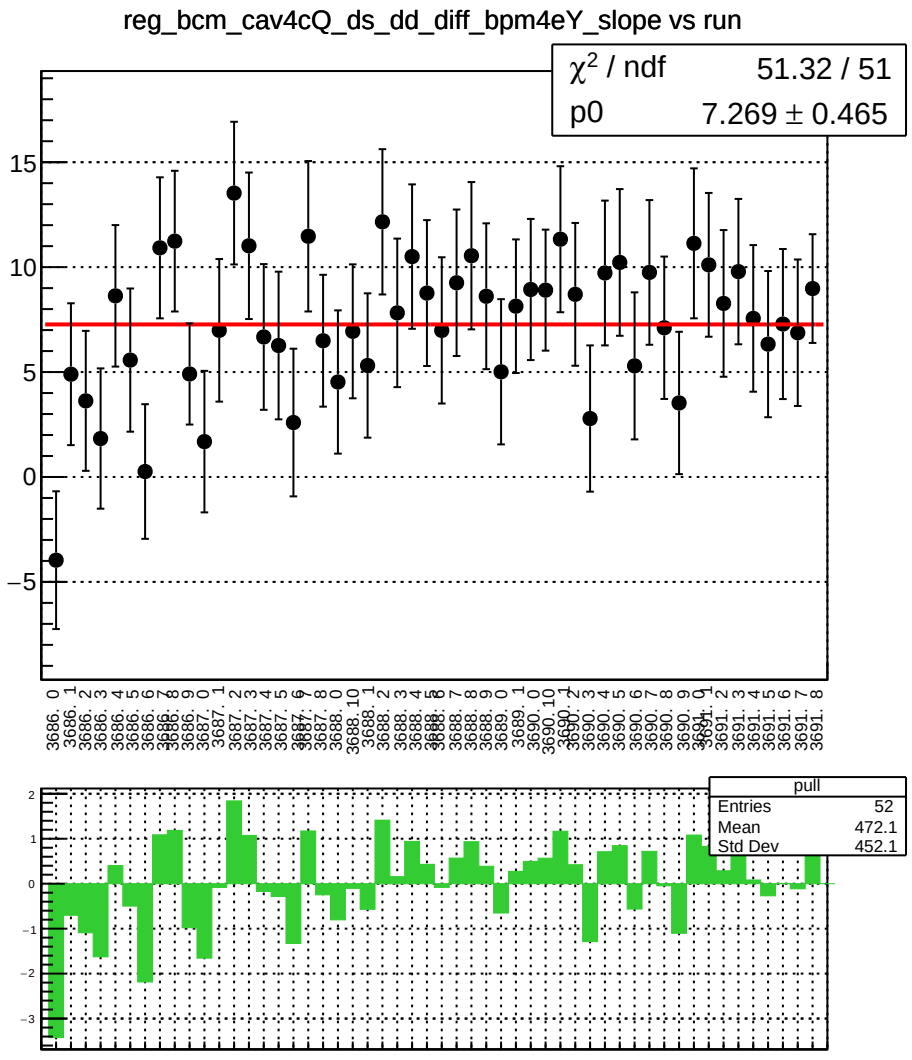

pull1D
Entries 52
Mean −0.01604
Std Dev 0.97

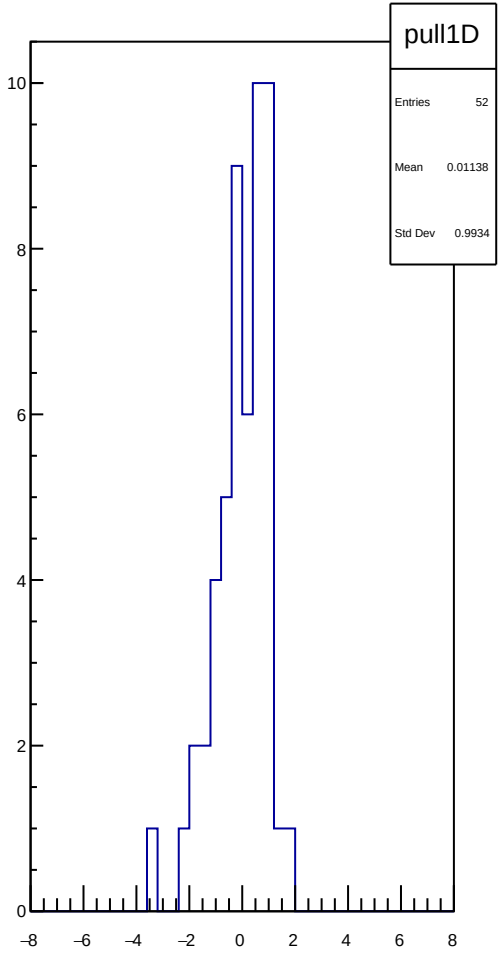

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.18 / 51
p0 −4.341 ± 0.2976
pull
Entries 52
Mean 467.7
Std Dev 448.7

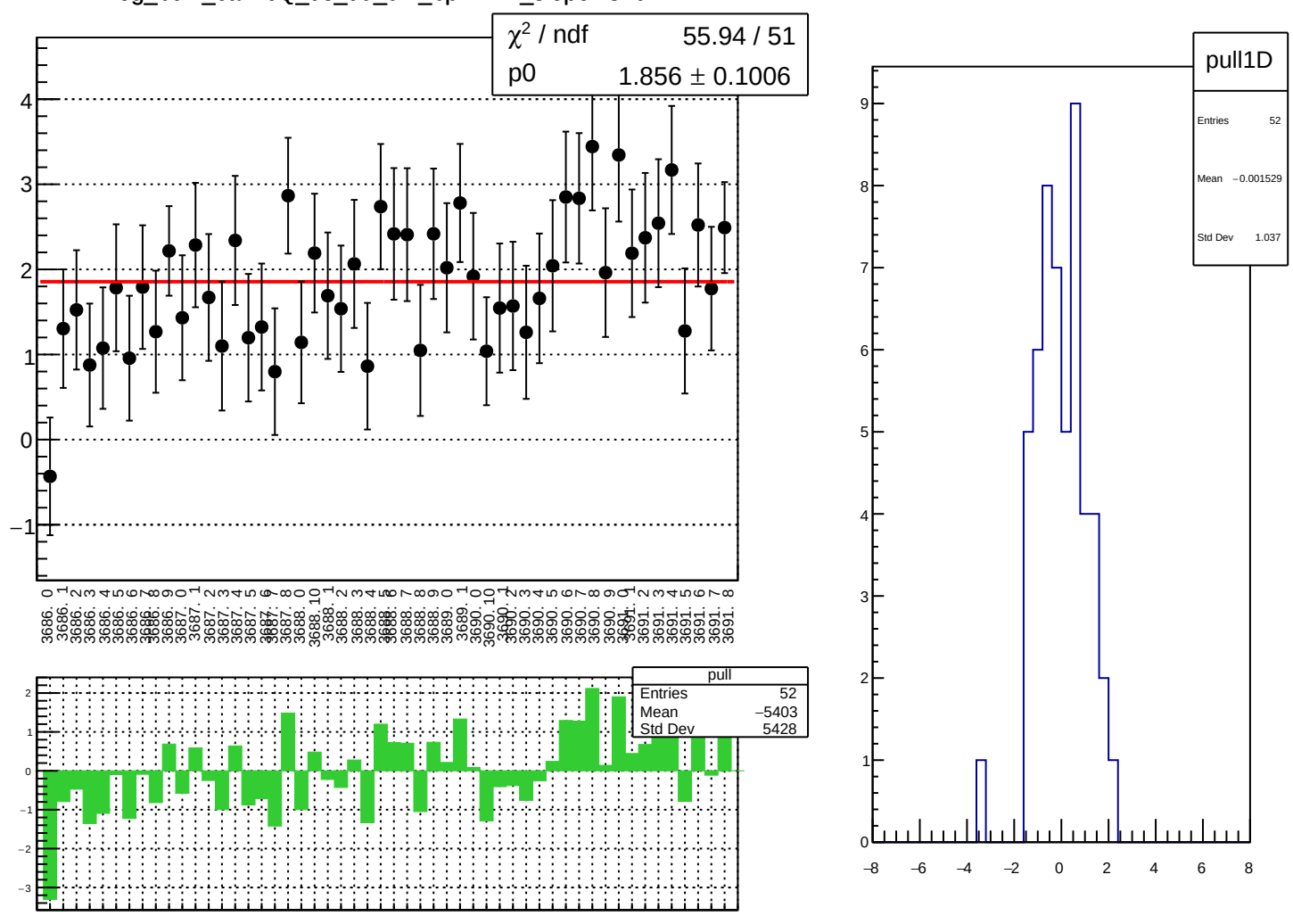

pull1D
Entries 52
Mean −0.009702
Std Dev 0.9626

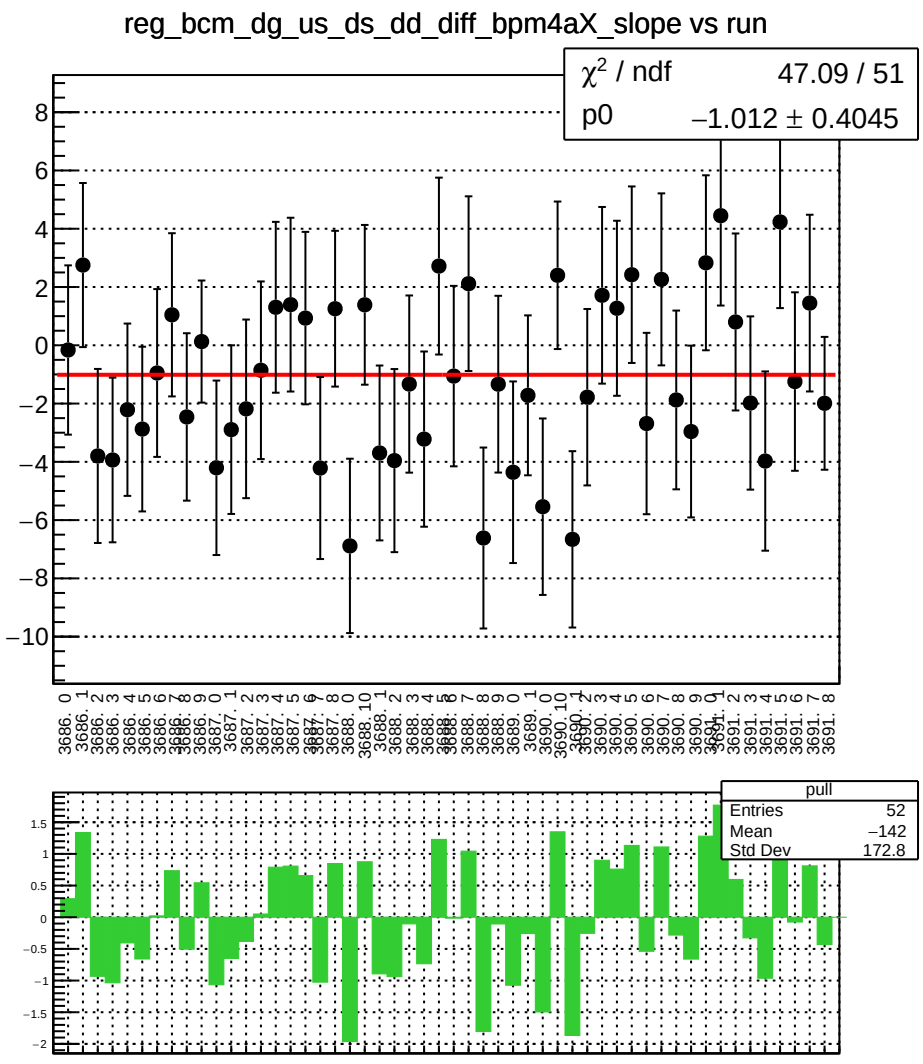

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.27 / 51
p0 1.767 ± 0.07876
pull
Entries 52
Mean 224.5
Std Dev 202.9

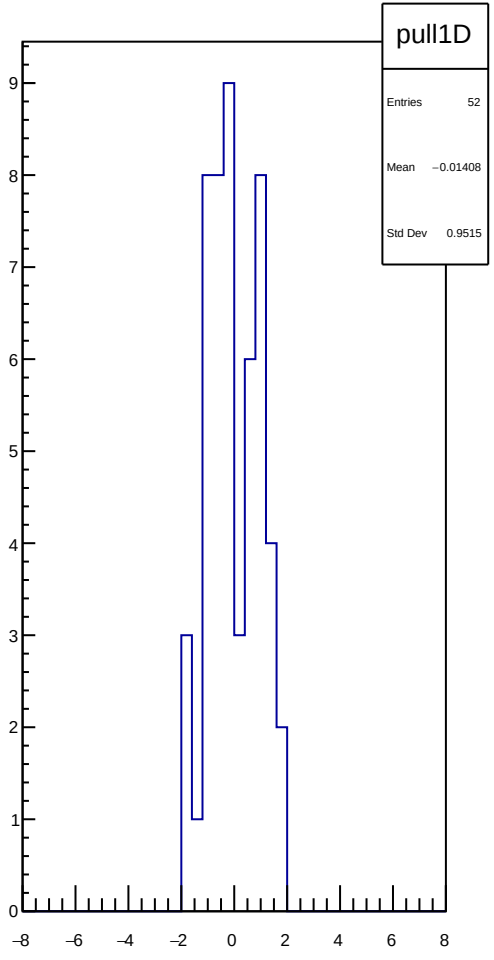

pull1D
Entries 52
Mean 0.01922
Std Dev 1.012

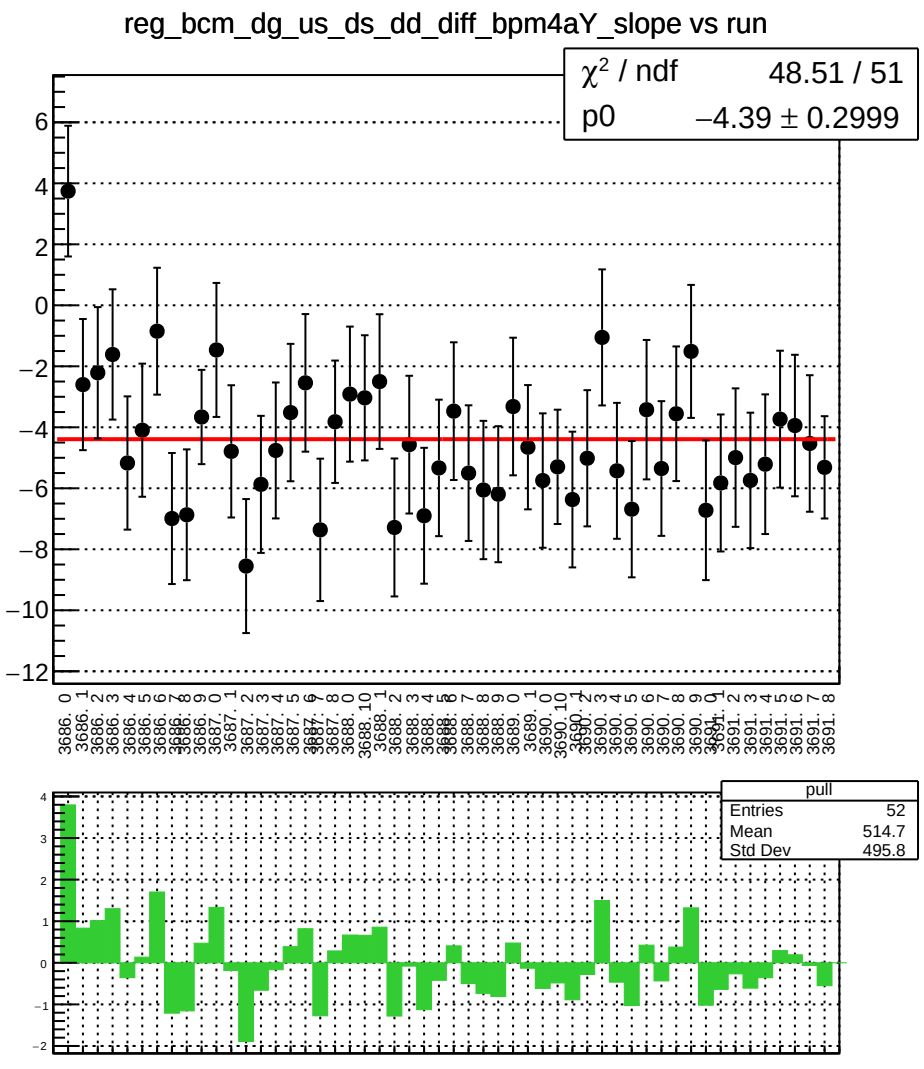

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.32 / 51
p0 7.269 ± 0.465
pull
Entries 52
Mean 472.1
Std Dev 452.1

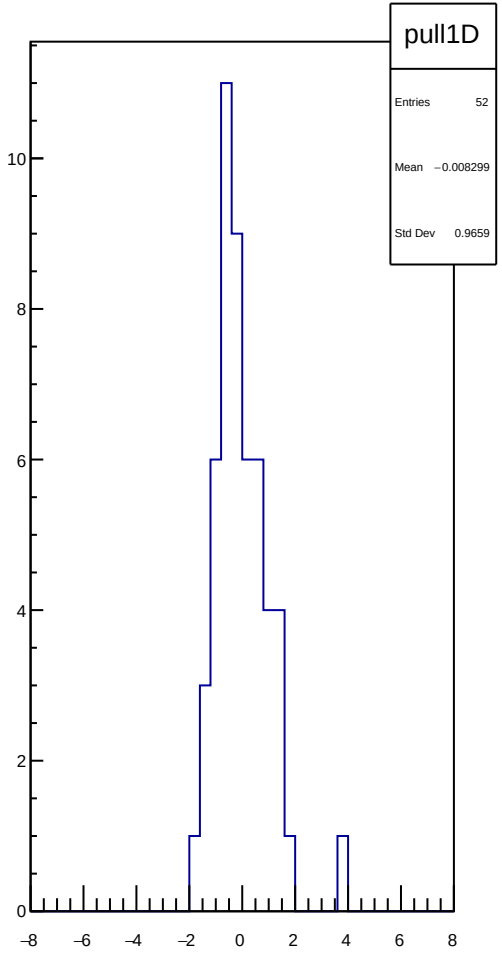

pull1D
Entries 52
Mean 0.01138
Std Dev 0.9934

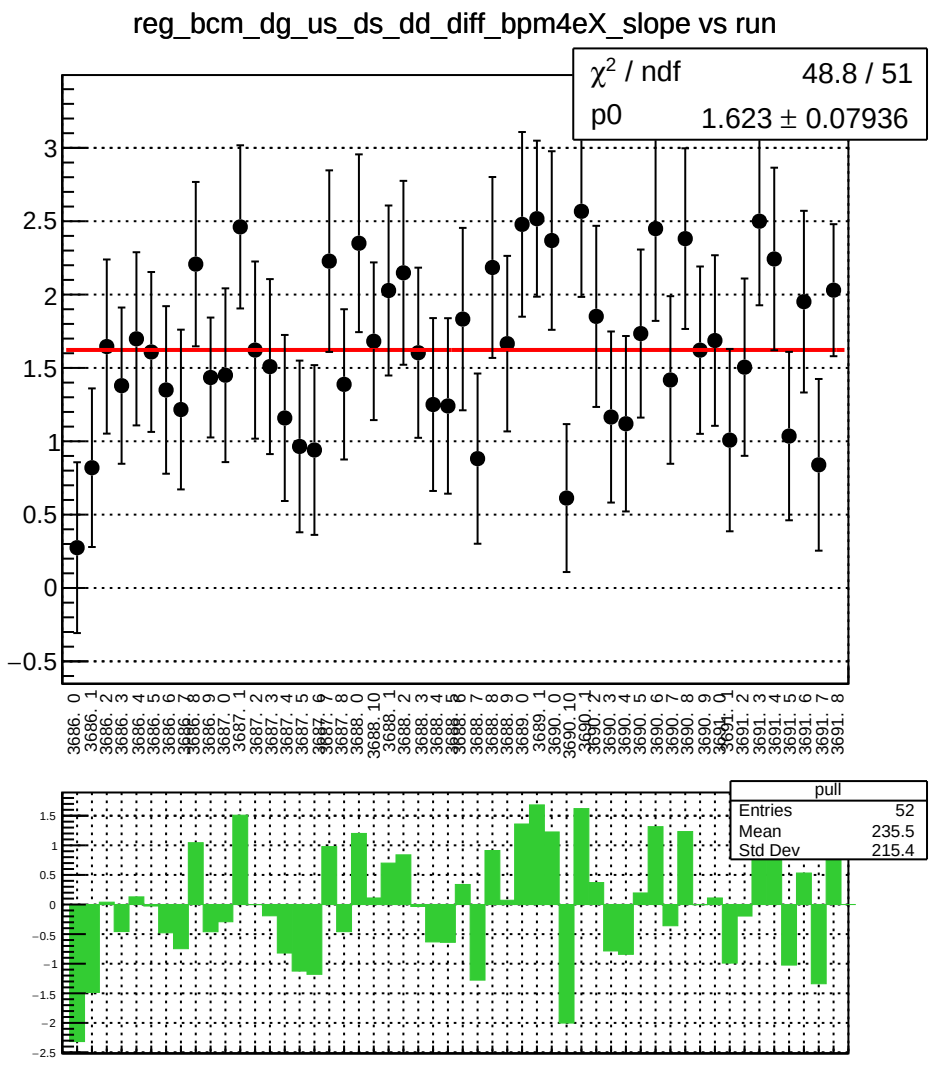

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 55.94 / 51
p0 1.856 ± 0.1006
pull
Entries 52
Mean −5403
Std Dev 5428
pull1D
Entries 52
Mean −0.001529
Std Dev 1.037

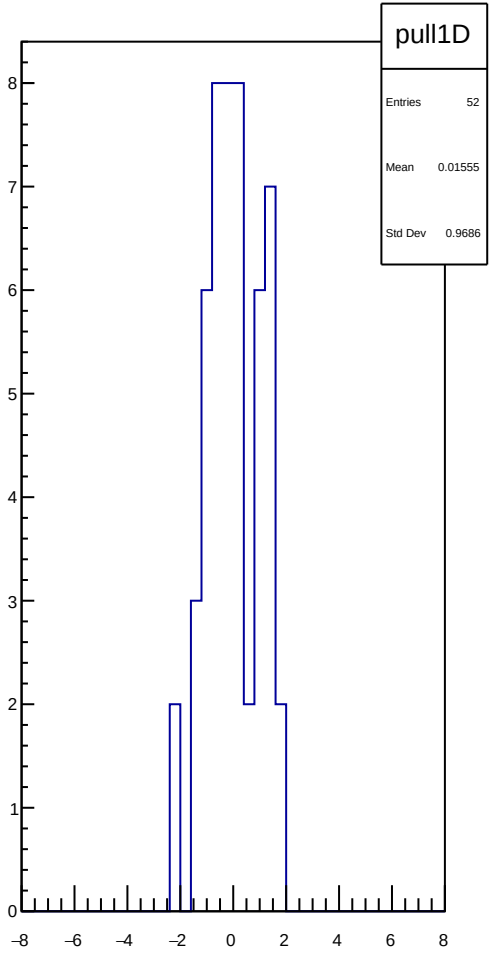

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 47.09 / 51
p0 −1.012 ± 0.4045
pull
Entries 52
Mean −142
Std Dev 172.8

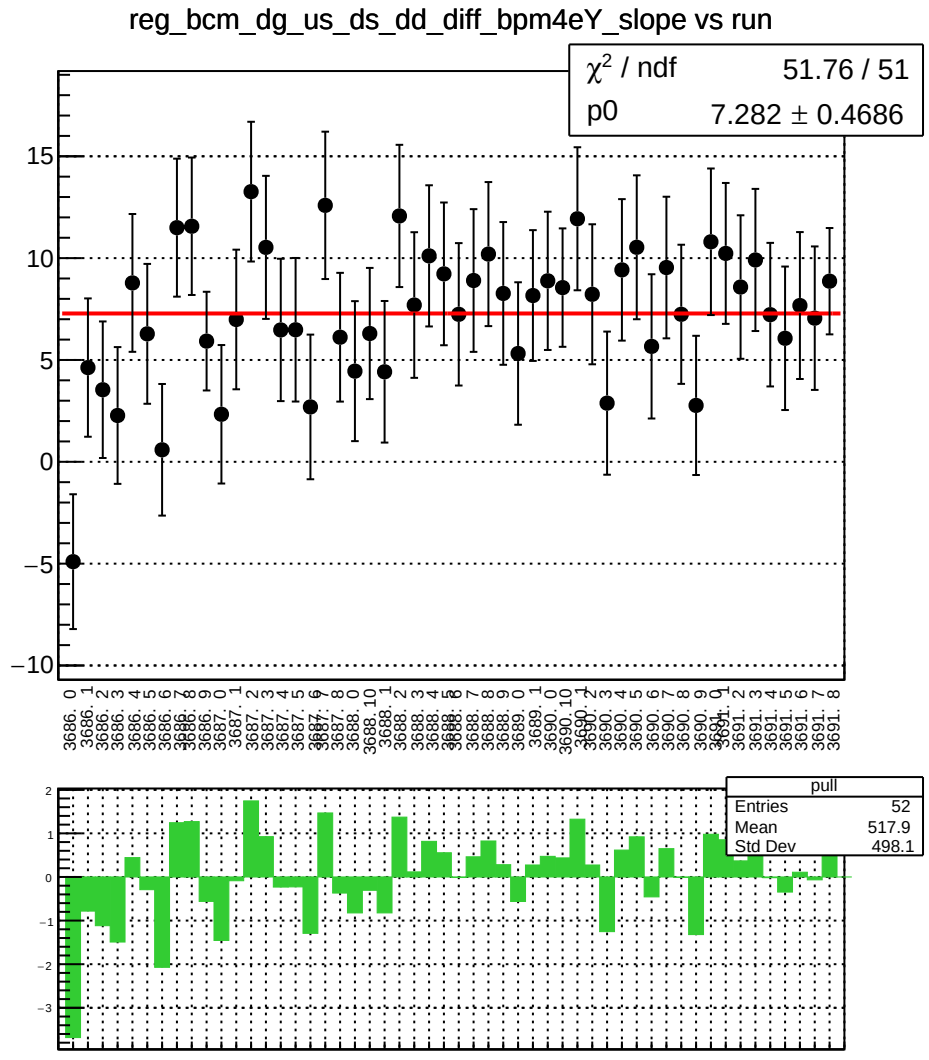

pull1D
Entries 52
Mean −0.01408
Std Dev 0.9515

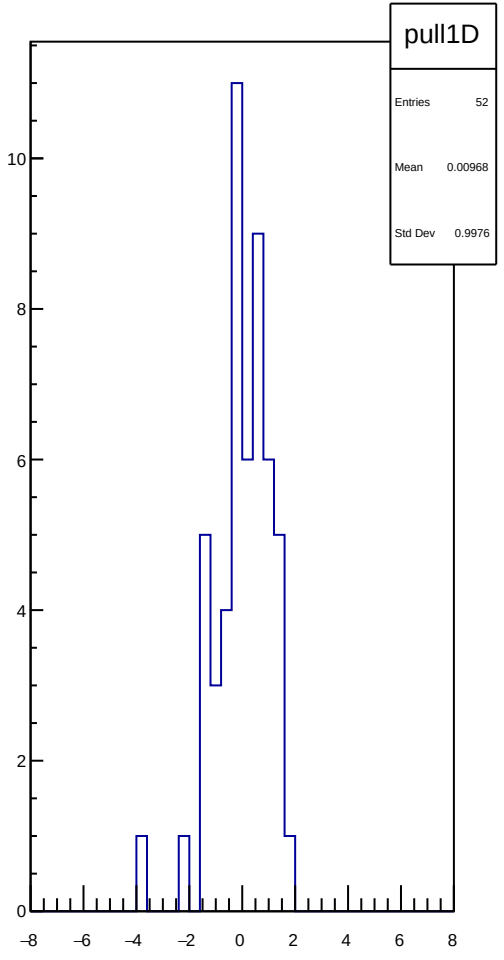

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.51 / 51
p0 −4.39 ± 0.2999
pull
Entries 52
Mean 514.7
Std Dev 495.8

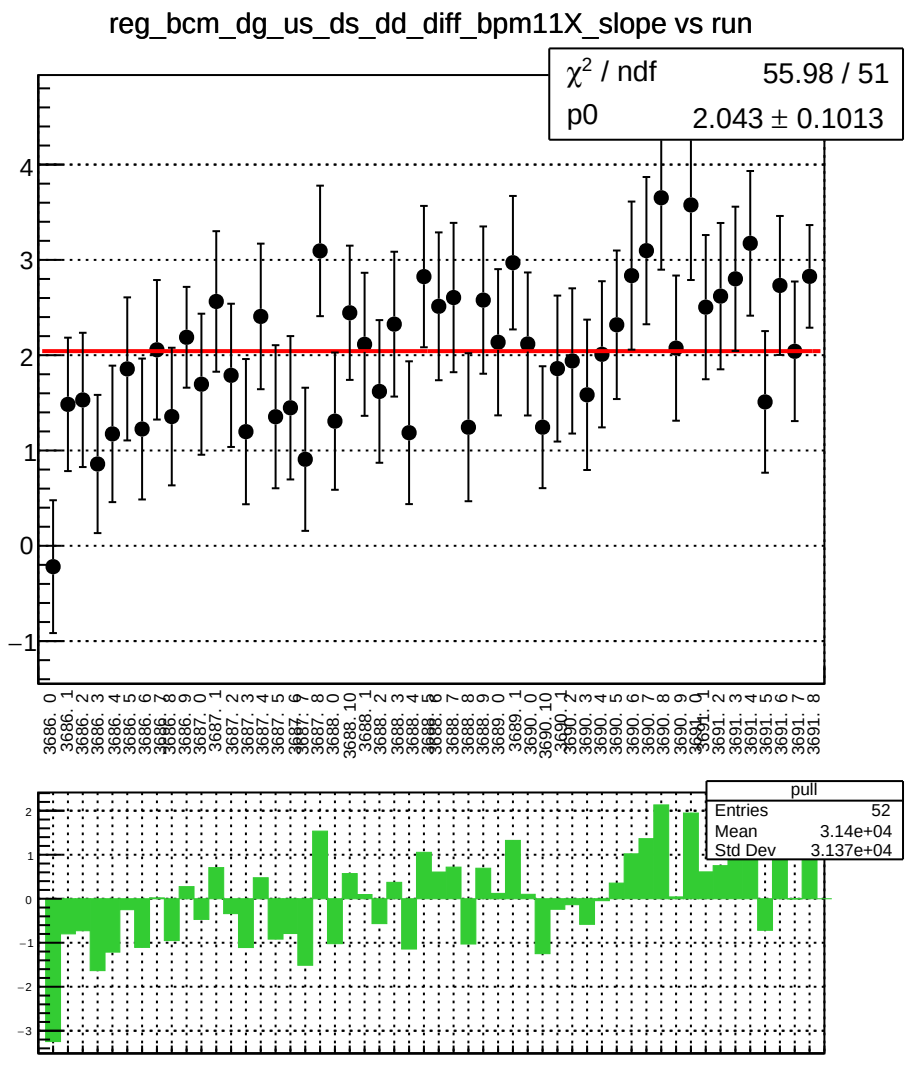

pull1D
Entries 52
Mean −0.008299
Std Dev 0.9659

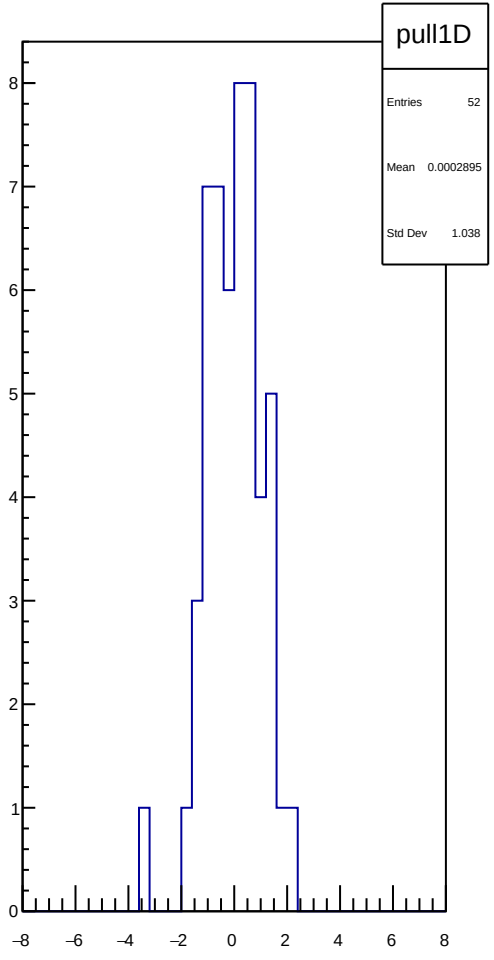

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.8 / 51
p0 1.623 ± 0.07936
pull
Entries 52
Mean 235.5
Std Dev 215.4

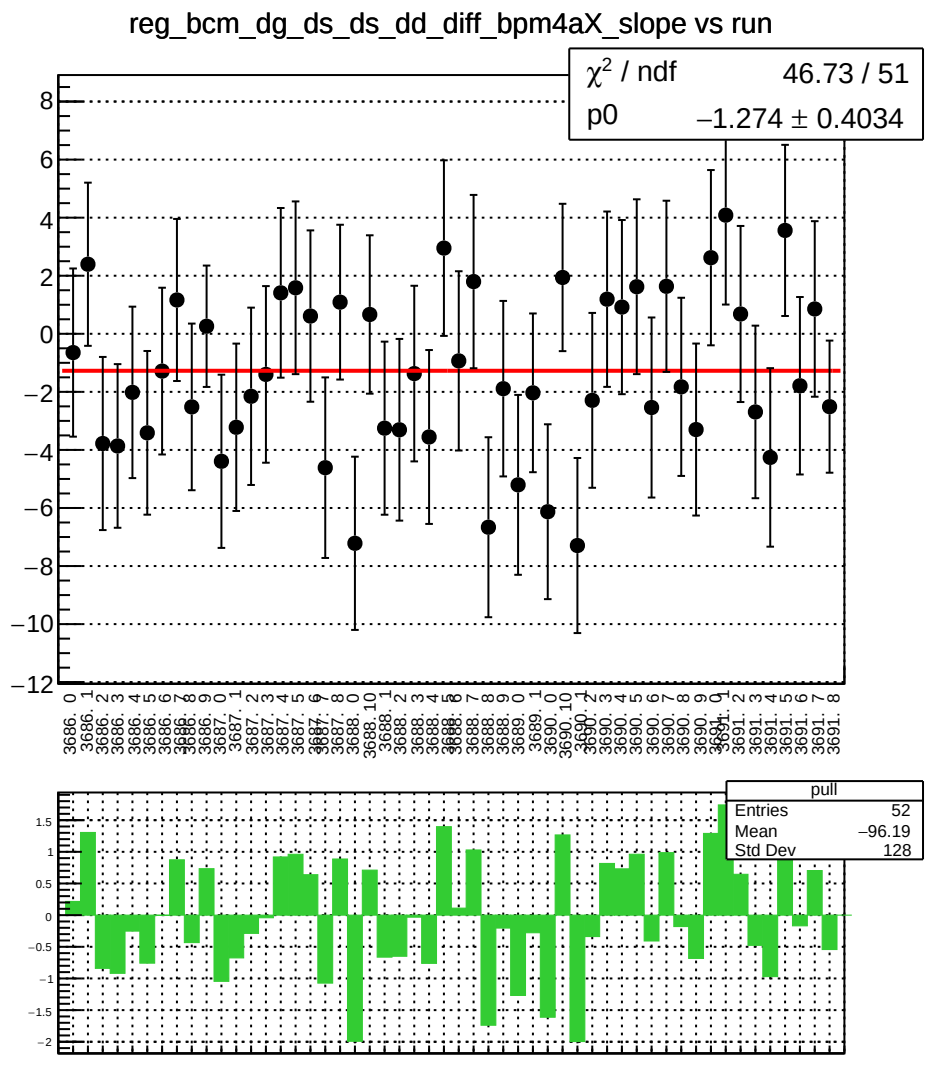

pull1D
Entries 52
Mean 0.01555
Std Dev 0.9686

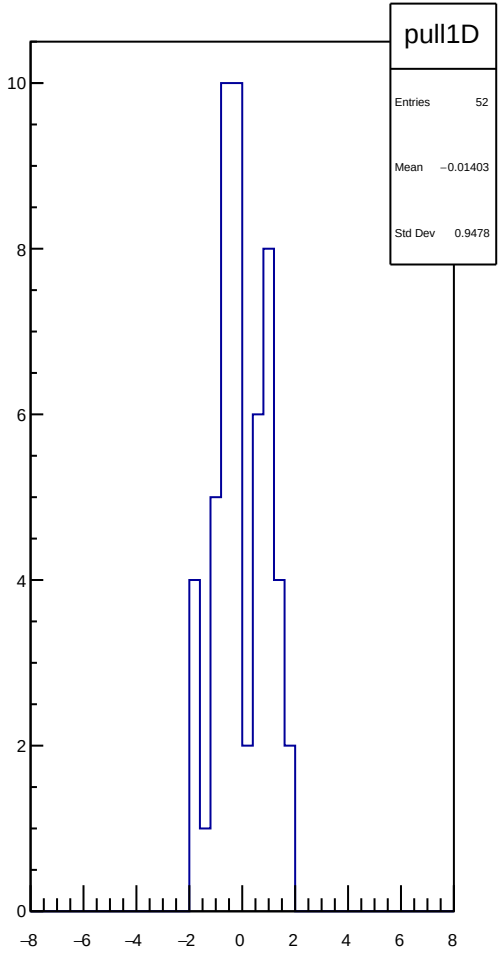

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.76 / 51
p0 7.282 ± 0.4686
pull
Entries 52
Mean 517.9
Std Dev 498.1

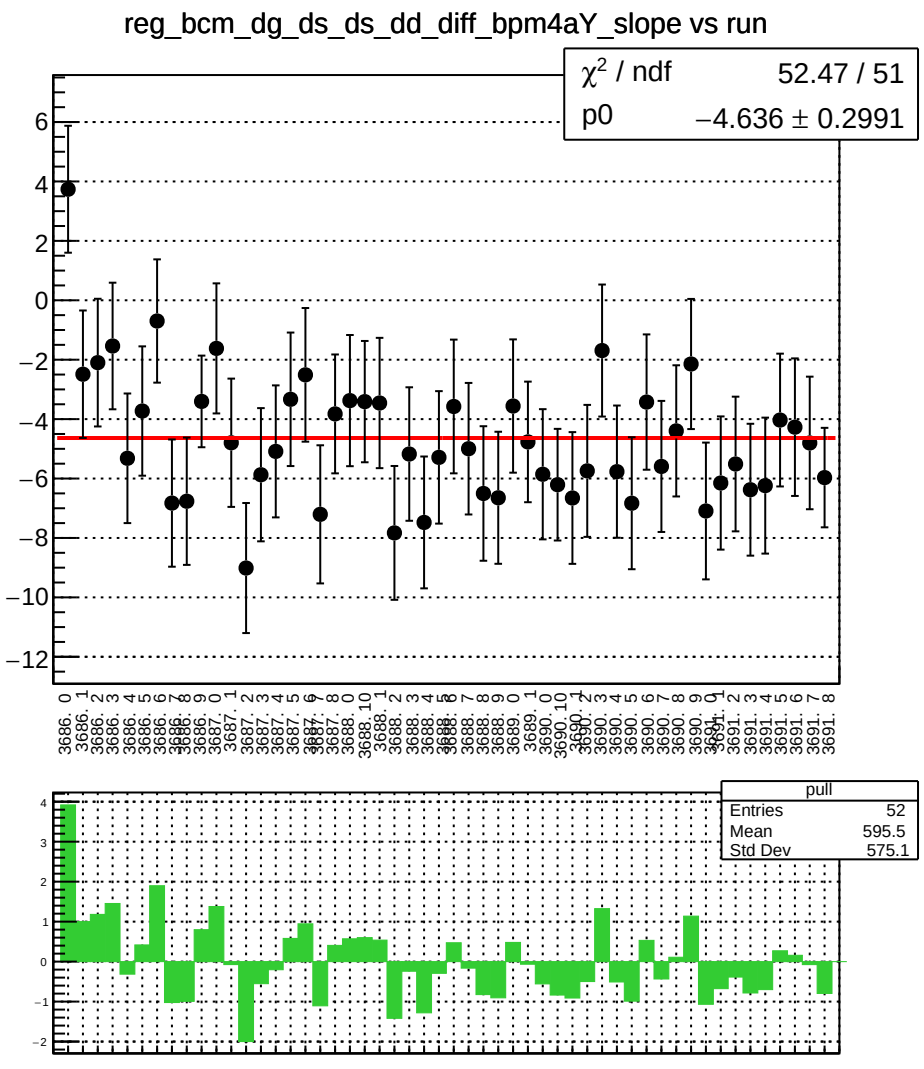

pull1D
Entries 52
Mean 0.00968
Std Dev 0.9976

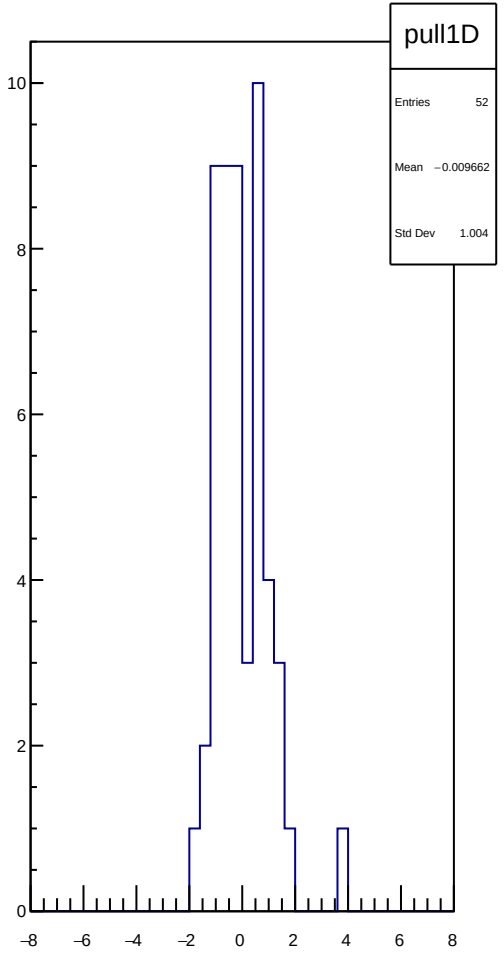

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 55.98 / 51
p0 2.043 ± 0.1013
pull
Entries 52
Mean 3.14e+04
Std Dev 3.137e+04

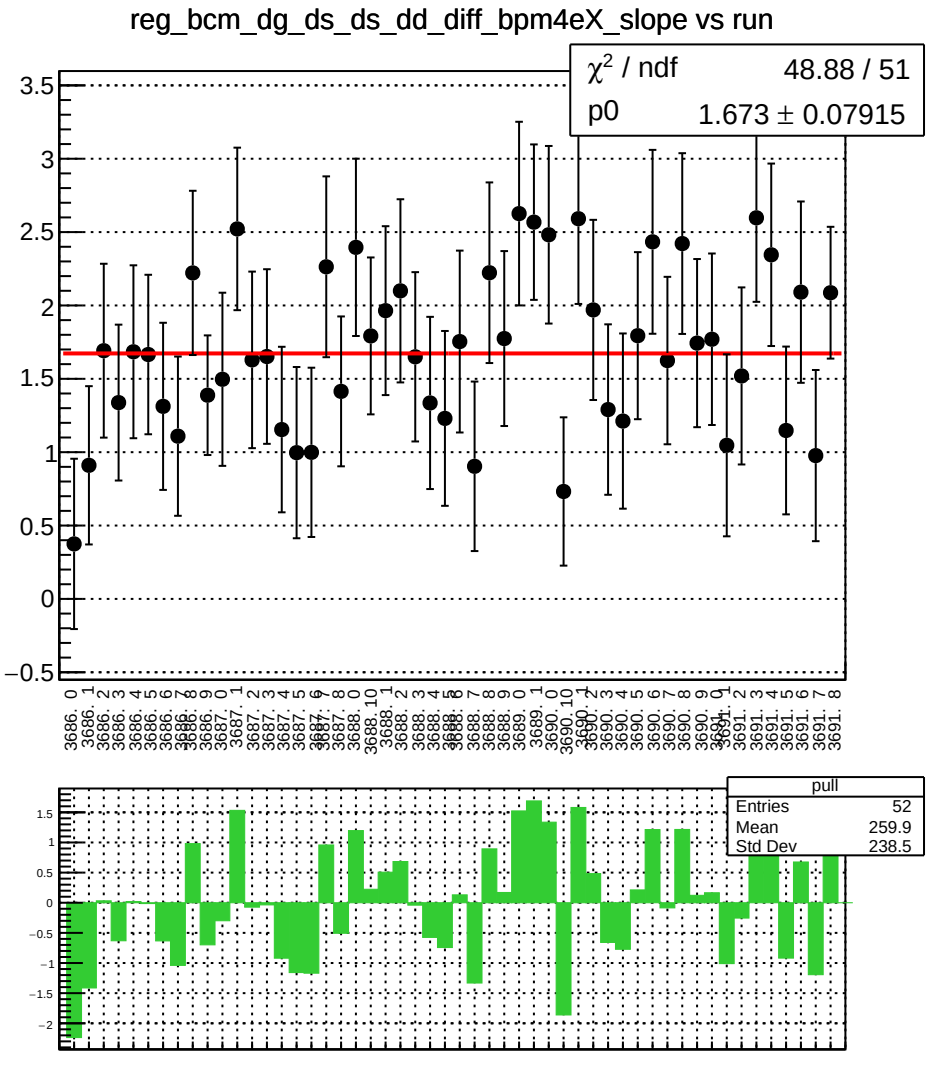

pull1D
Entries 52
Mean 0.0002895
Std Dev 1.038

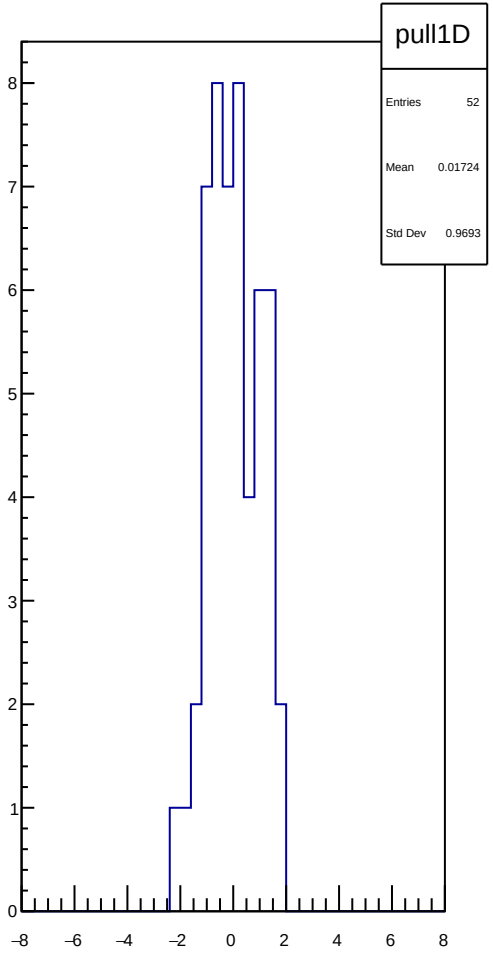

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 46.73 / 51
p0 −1.274 ± 0.4034
pull
Entries 52
Mean −96.19
Std Dev 128

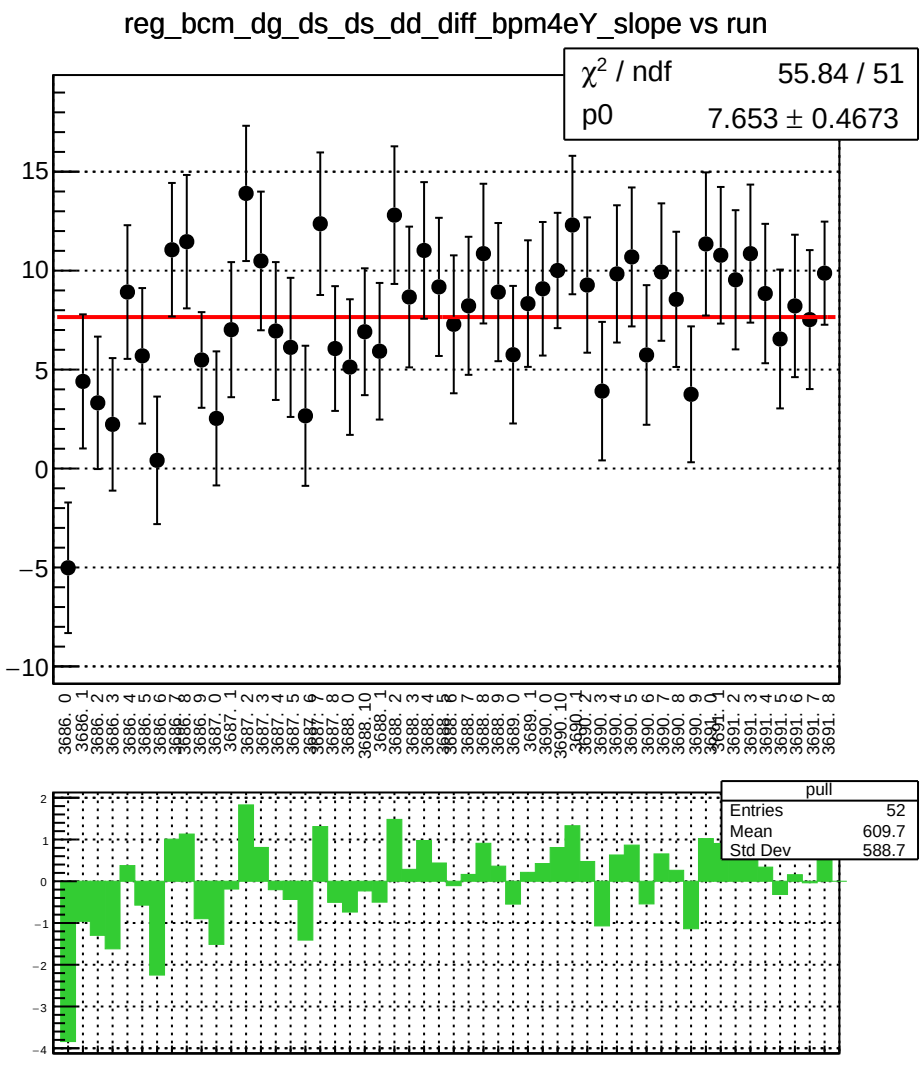

pull1D
Entries 52
Mean −0.01403
Std Dev 0.9478

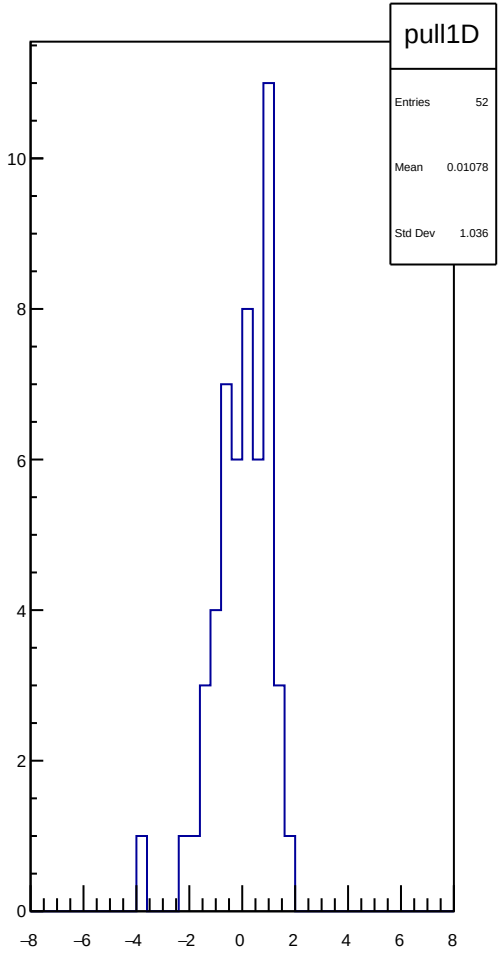

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.47 / 51
p0 −4.636 ± 0.2991
pull
Entries 52
Mean 595.5
Std Dev 575.1

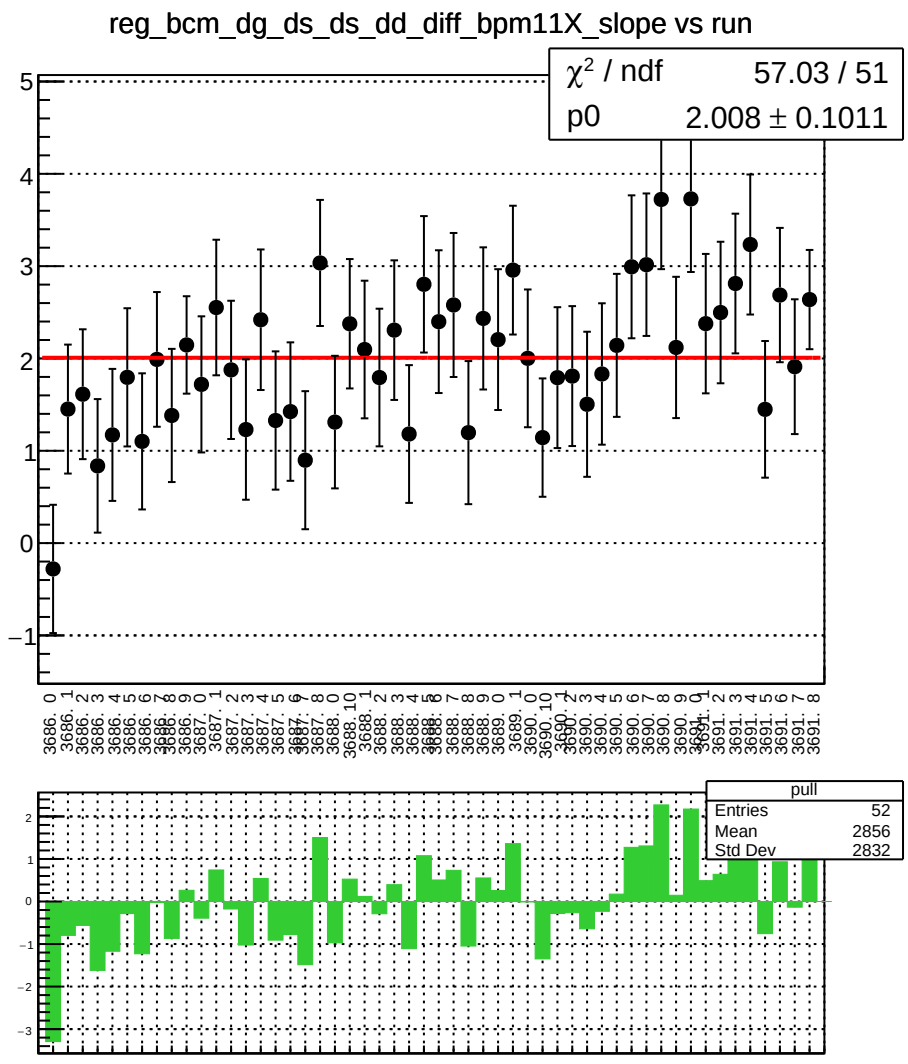

pull1D
Entries 52
Mean −0.009662
Std Dev 1.004

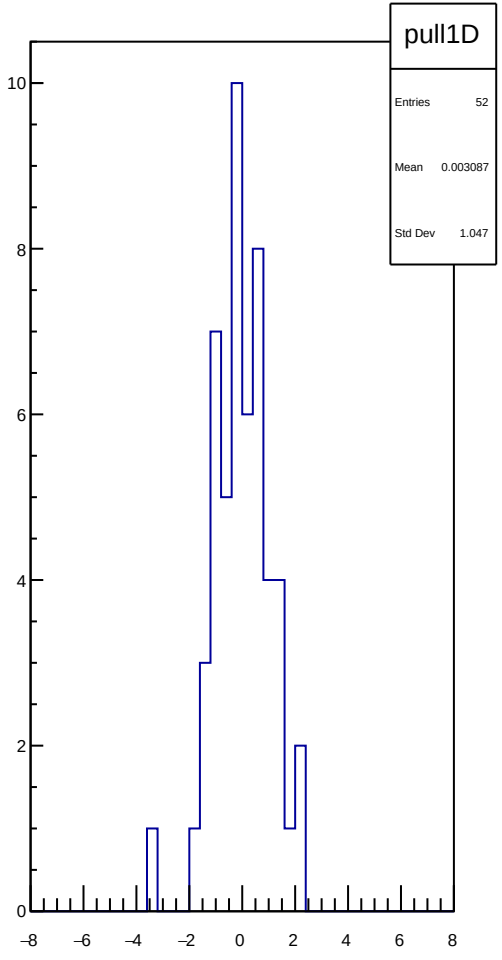

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.88 / 51
p0 1.673 ± 0.07915
pull
Entries 52
Mean 259.9
Std Dev 238.5

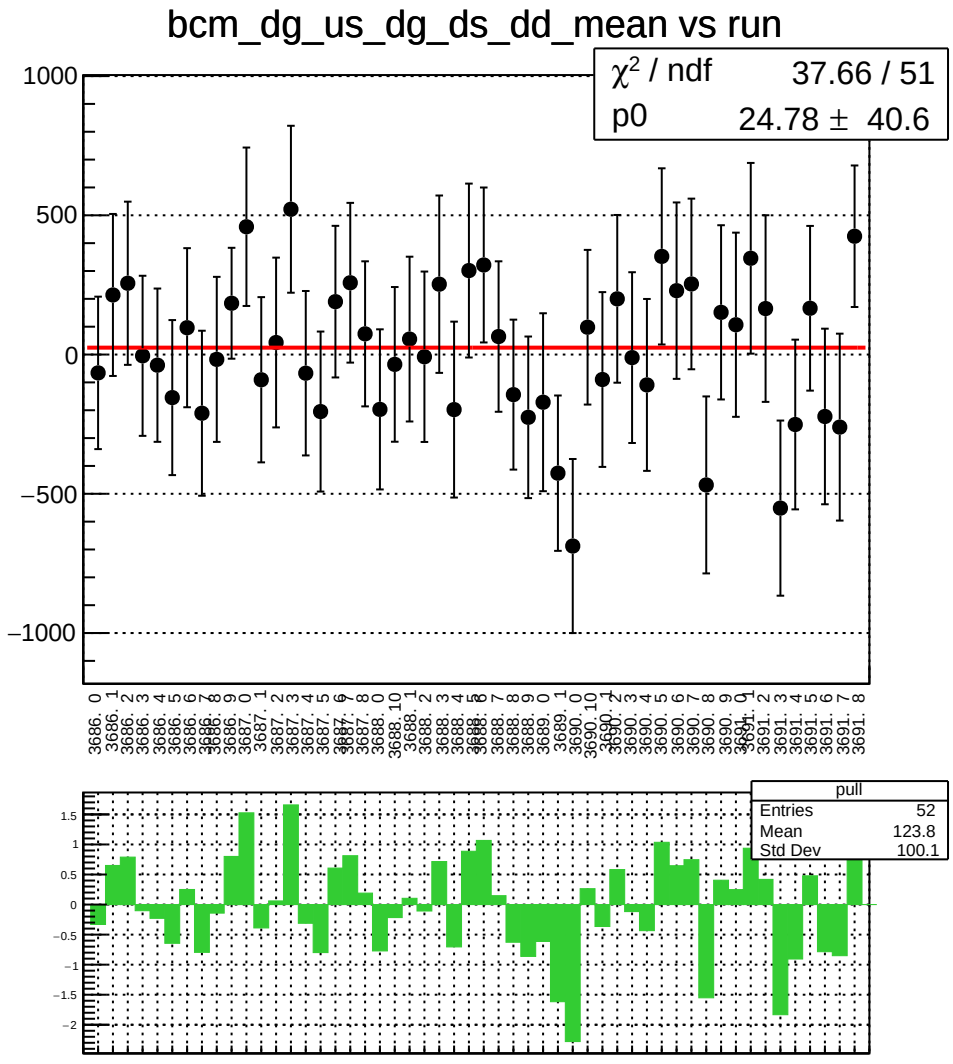

pull1D
Entries 52
Mean 0.01724
Std Dev 0.9693

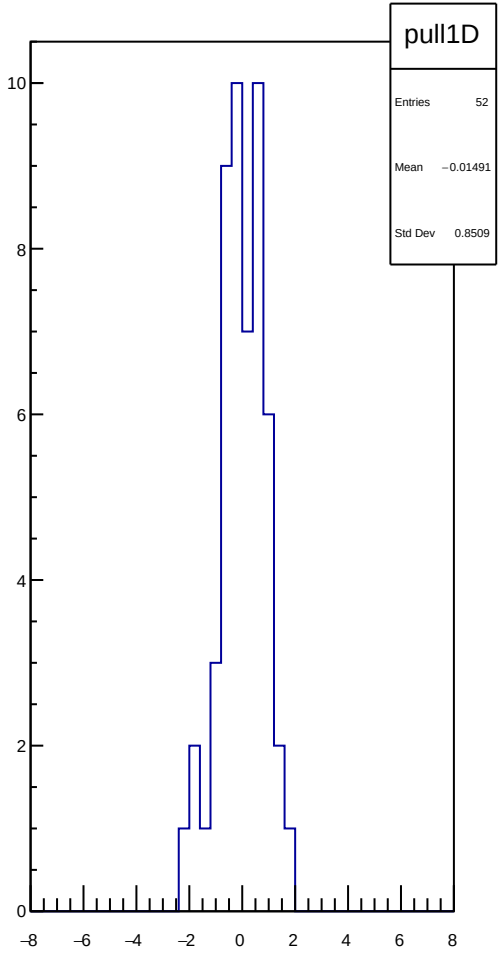

reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.84 / 51
p0 7.653 ± 0.4673
pull
Entries 52
Mean 609.7
Std Dev 588.7

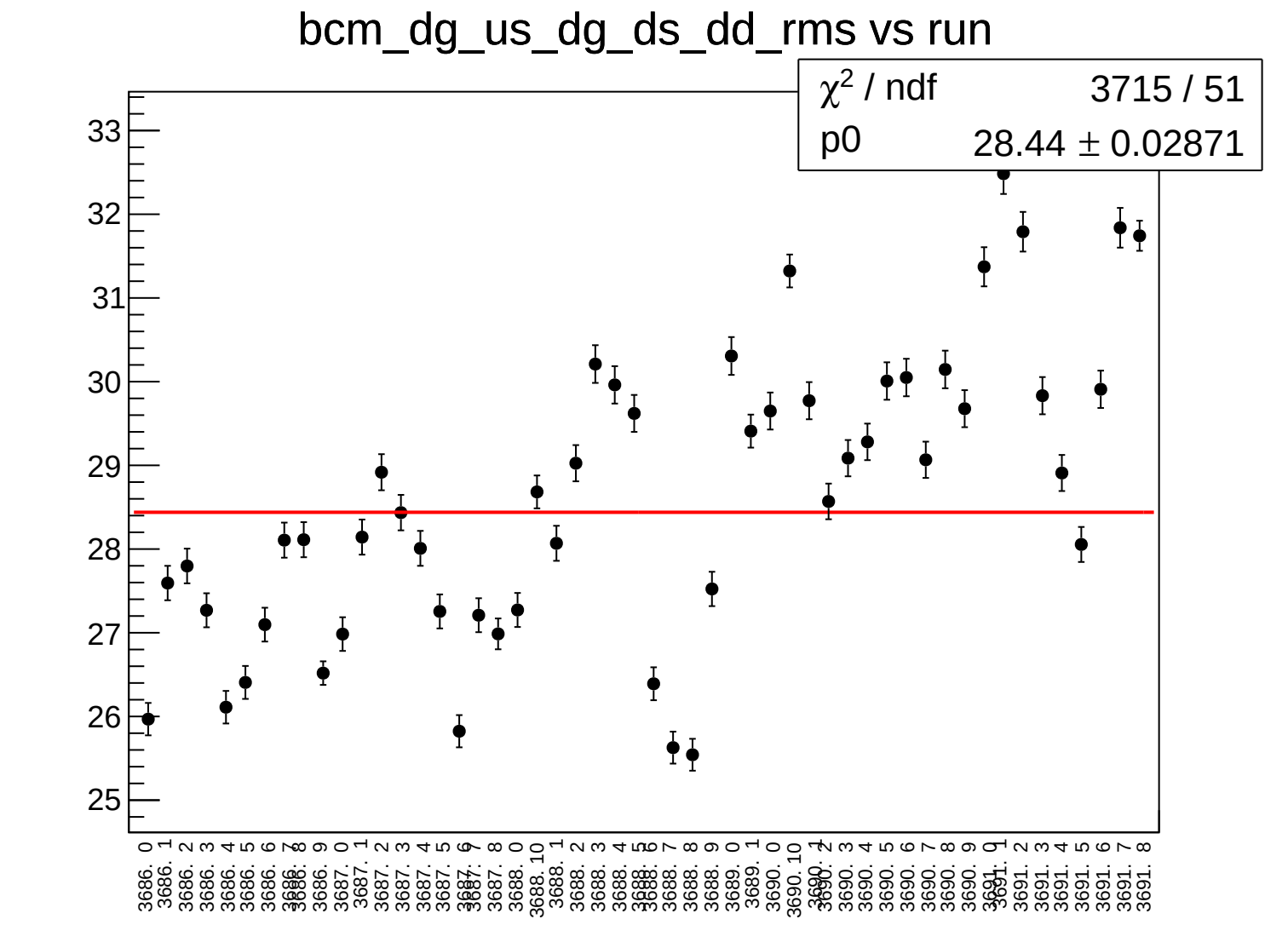

pull1D
Entries 52
Mean 0.01078
Std Dev 1.036


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 57.03 / 51
p0 2.008 ± 0.1011
pull
Entries 52
Mean 2856
Std Dev 2832


pull1D
Entries 52
Mean 0.003087
Std Dev 1.047


bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 37.66 / 51
p0 24.78 ± 40.6
1000
500
0
−500
−1000
pull
Entries 52
Mean 123.8
Std Dev 100.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 52
Mean −0.01491
Std Dev 0.8509
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 3715 / 51
p0 28.44 ± 0.02871
33
32
31
30
29
28
27
26
25
3686. 0
3686. 1
3686. 2
3686. 3
3686. 4
3686. 5
3686. 6
3686. 7
3686. 8
3686. 9
3687. 0
3687. 1
3687. 2
3687. 3
3687. 4
3687. 5
3687. 6
3687. 7
3687. 8
3688. 0
3688. 10
3688. 1
3688. 2
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3688. 4
3688. 5
3688. 6
3688. 7
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3688. 9
3689. 0
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3691. 2
3691. 3
3691. 4
3691. 5
3691. 6
3691. 7
3691. 8