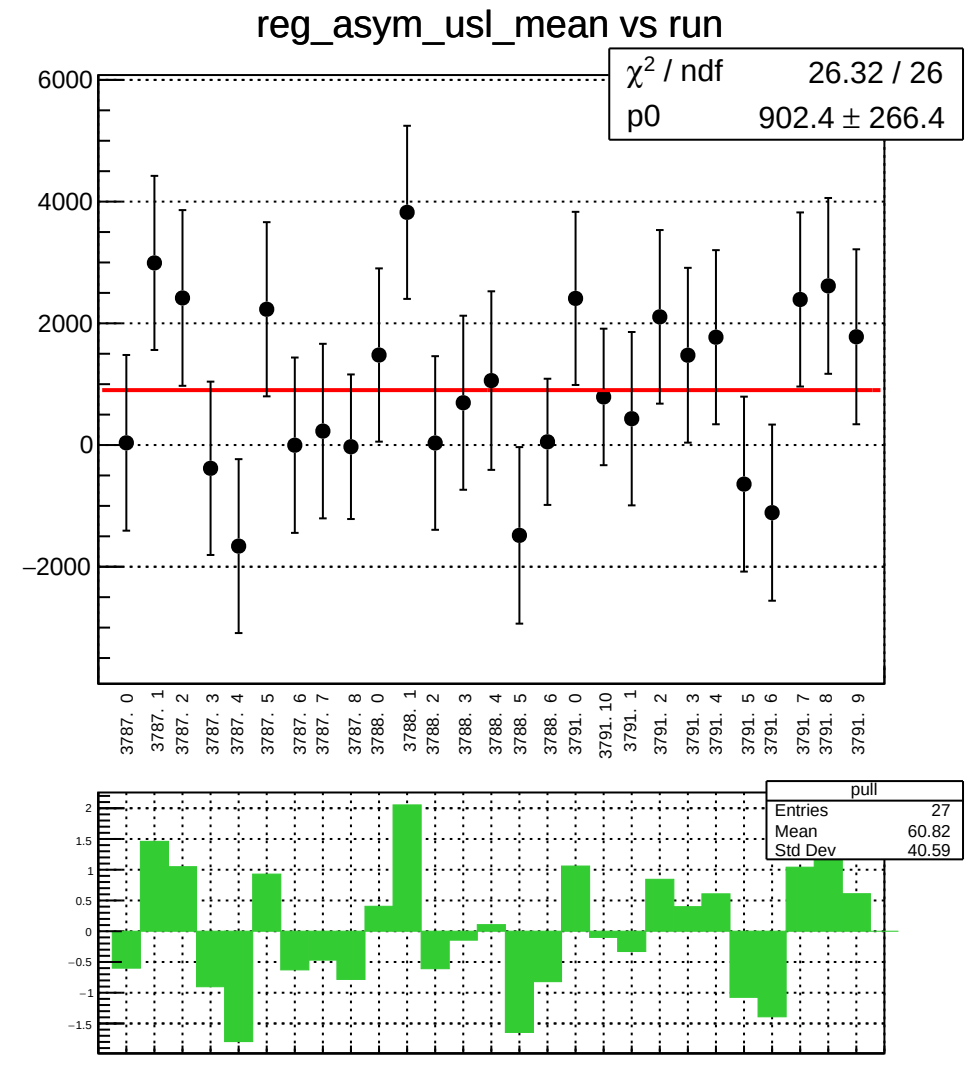
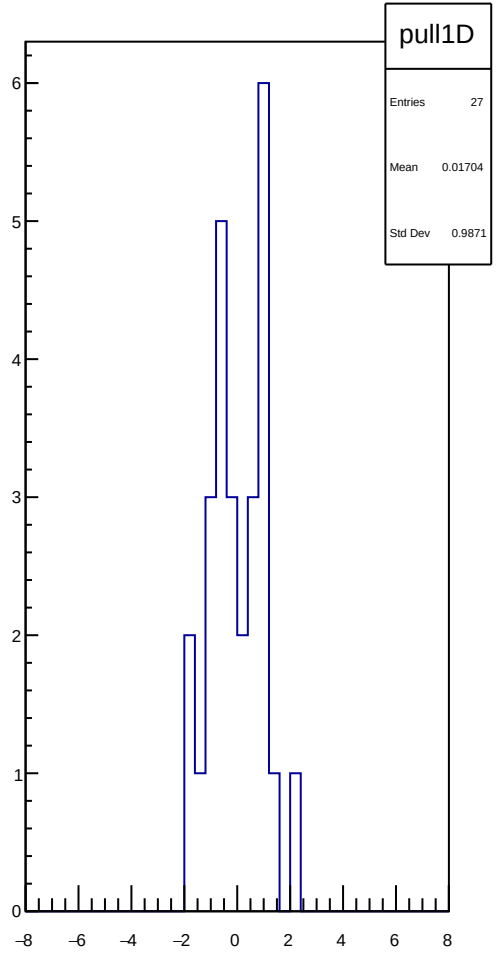
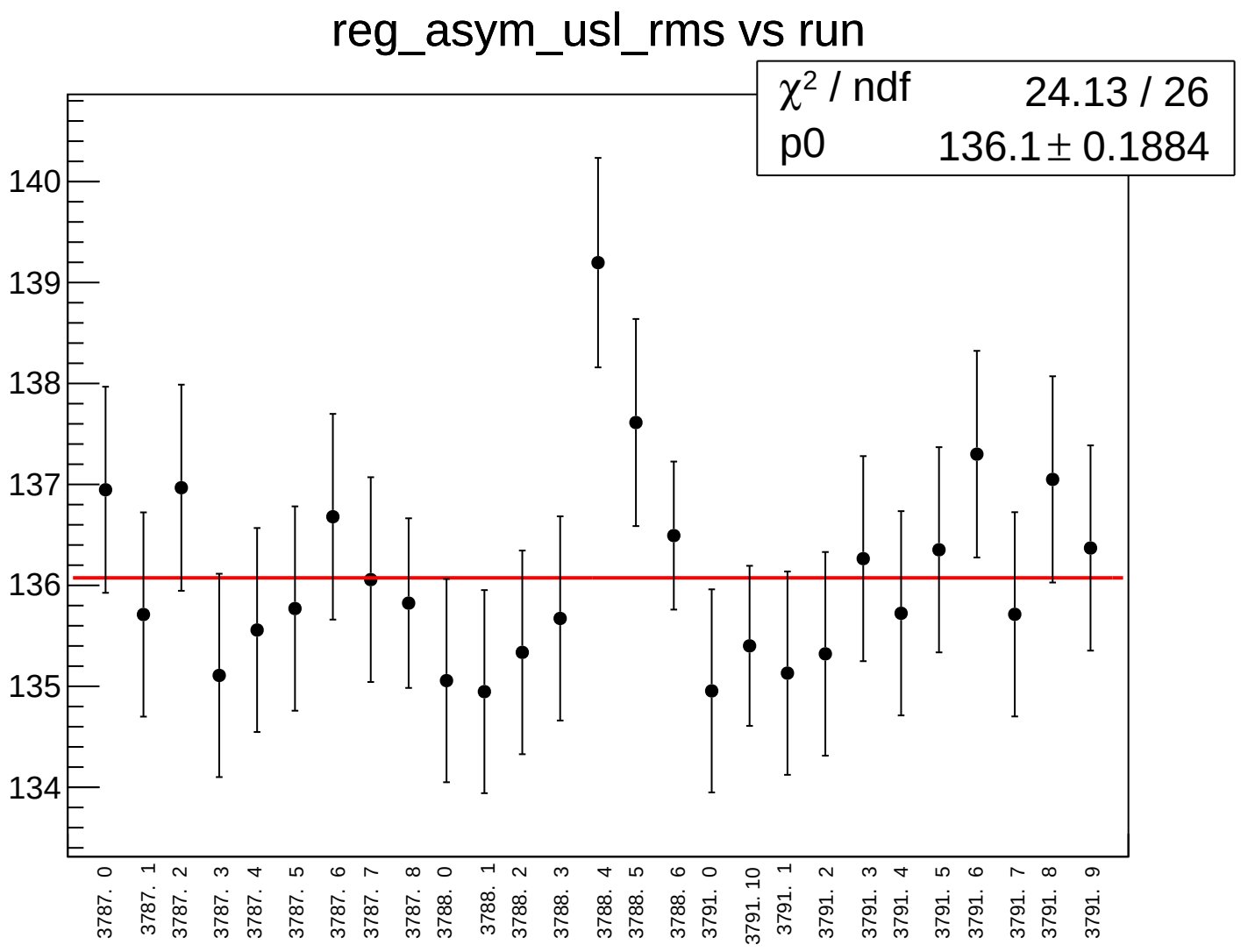
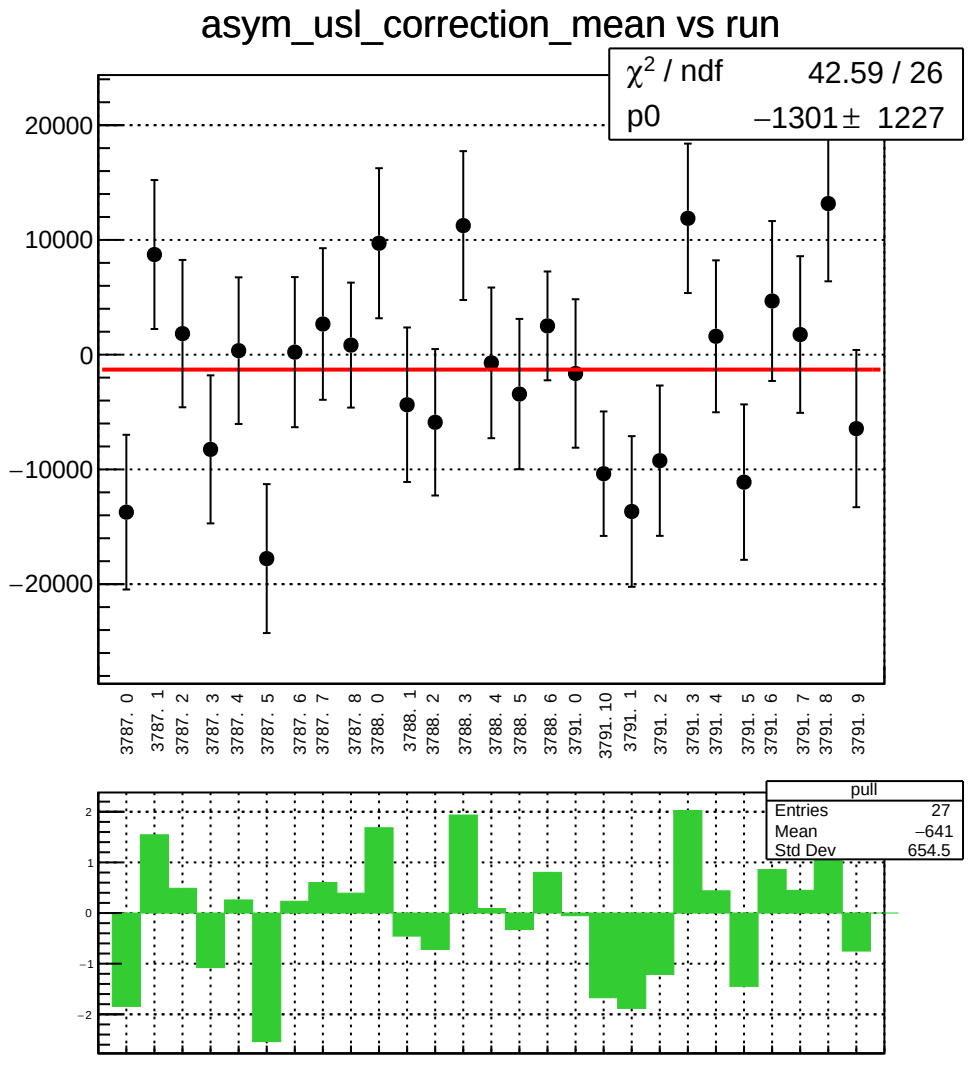
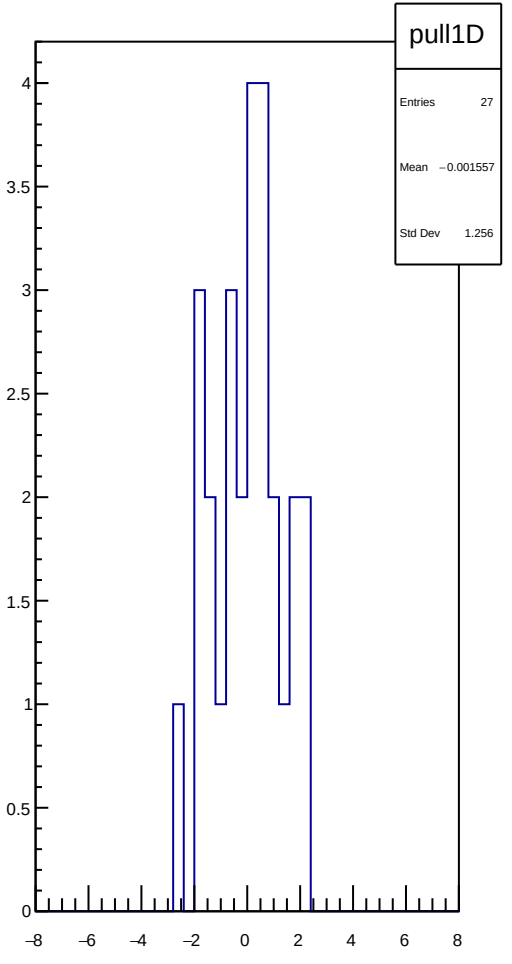
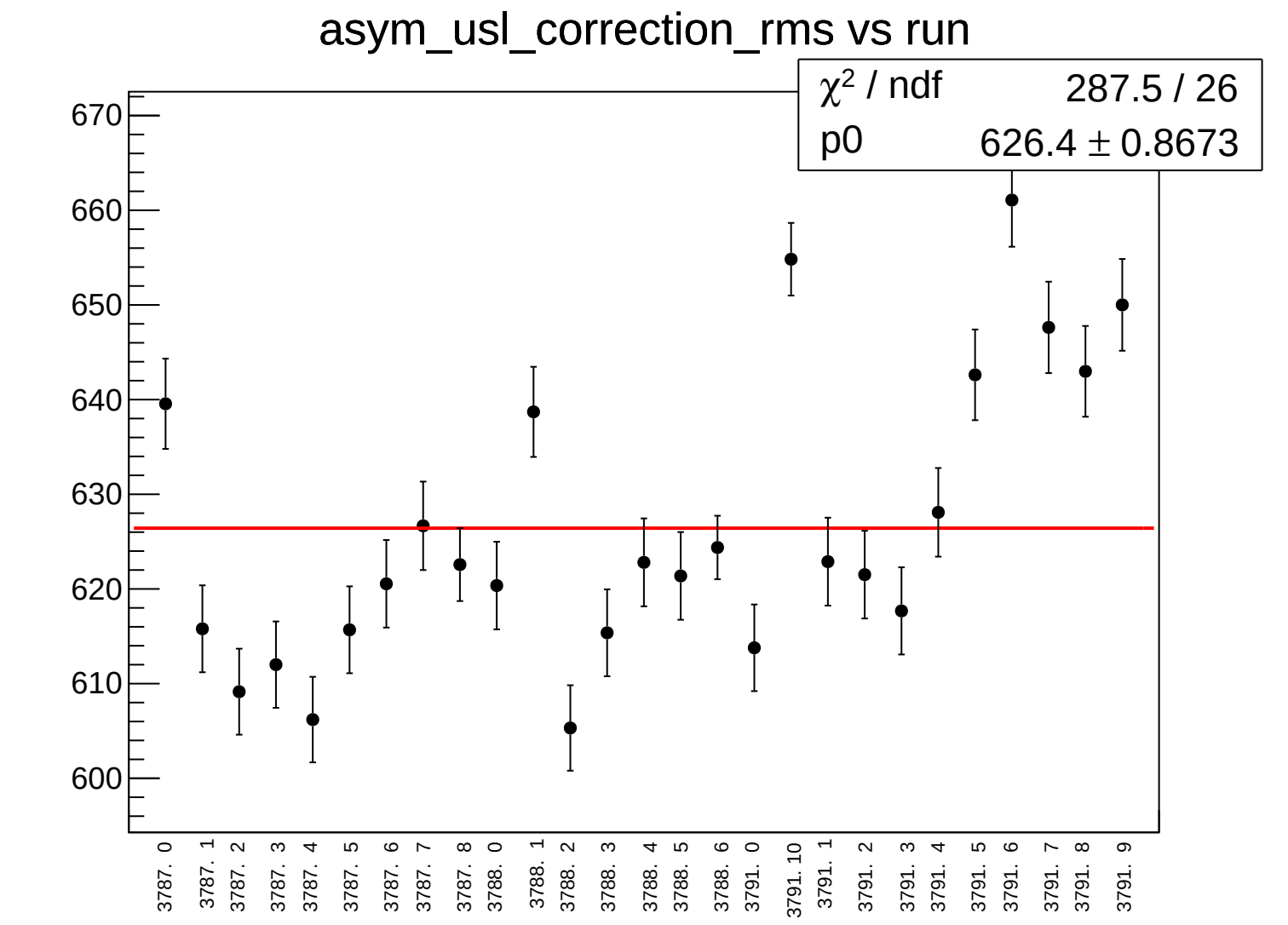

reg_asym_usl_mean vs run
χ² / ndf 26.32 / 26
p0 902.4 ± 266.4
6000
4000
2000
0
−2000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 60.82
Std Dev 40.59
2
1.5
1
0.5
0
−0.5
−1
−1.5

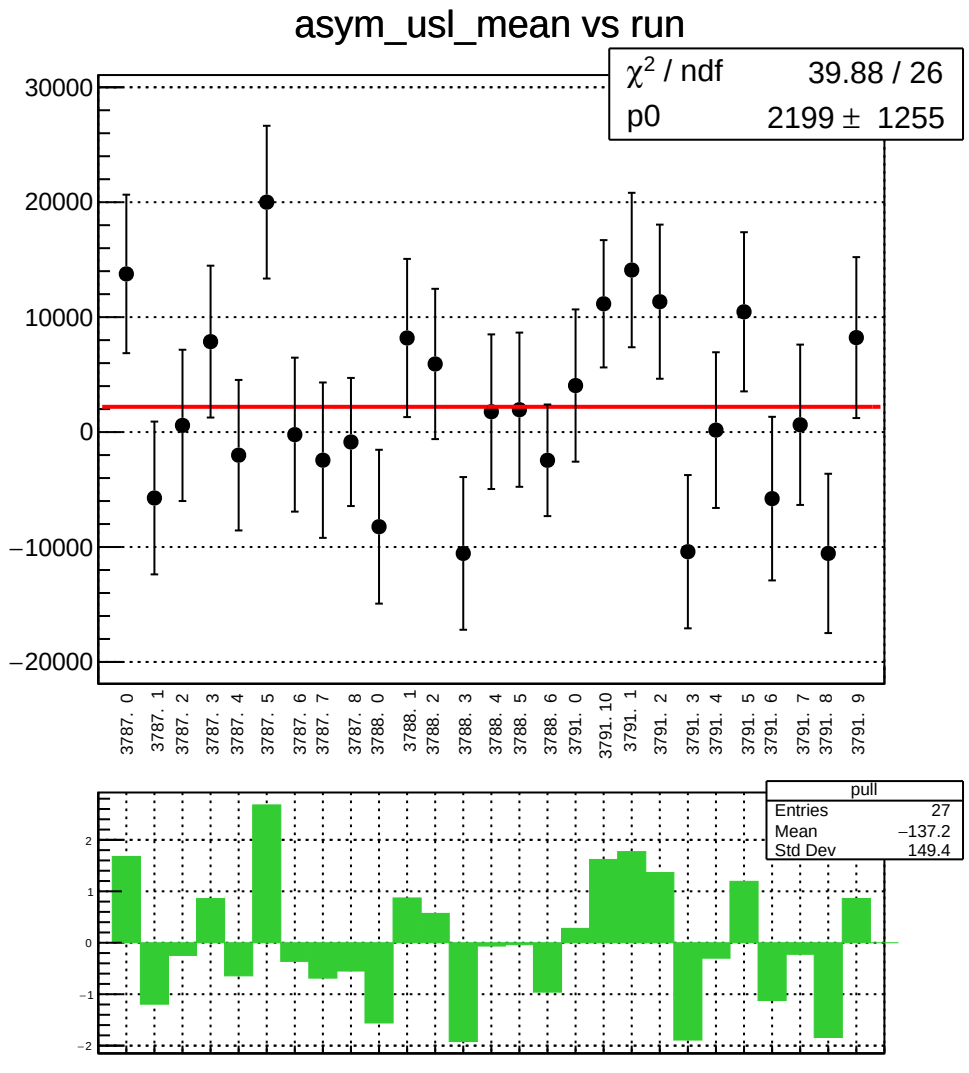

pull1D
Entries 27
Mean 0.01704
Std Dev 0.9871
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

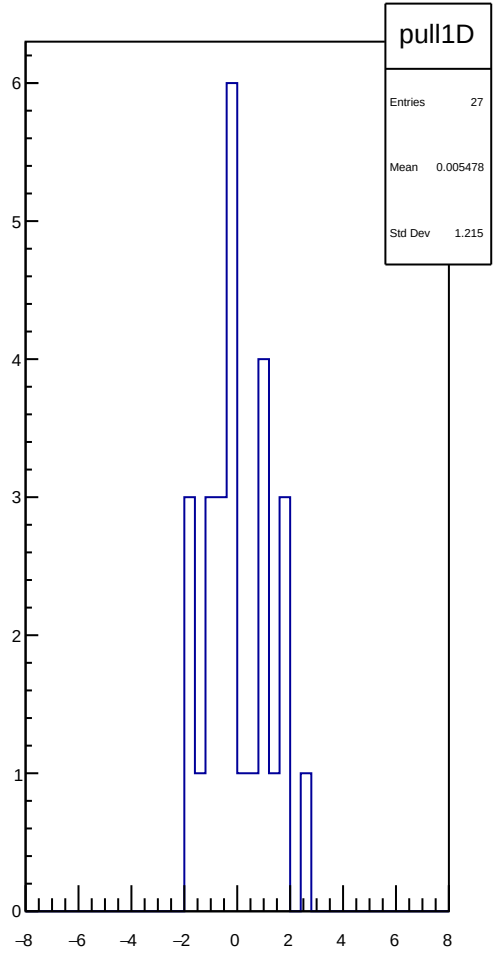

reg_asym_usl_rms vs run
χ² / ndf 24.13 / 26
p0 136.1 ± 0.1884
140
139
138
137
136
135
134
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

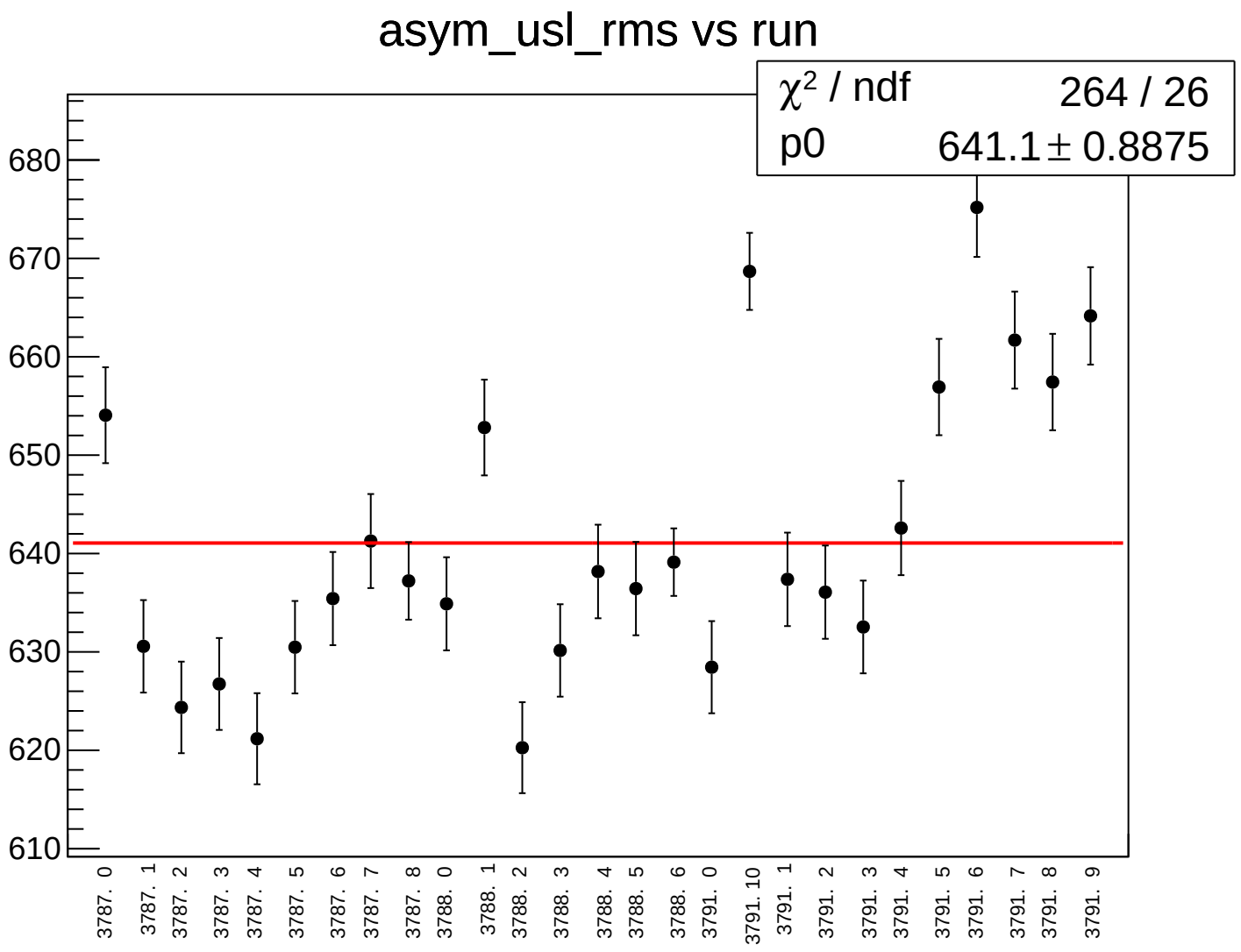

asym_usl_correction_mean vs run
χ² / ndf 42.59 / 26
p0 −1301 ± 1227
20000
10000
0
−10000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −641
Std Dev 654.5
2
1
0
−1
−2

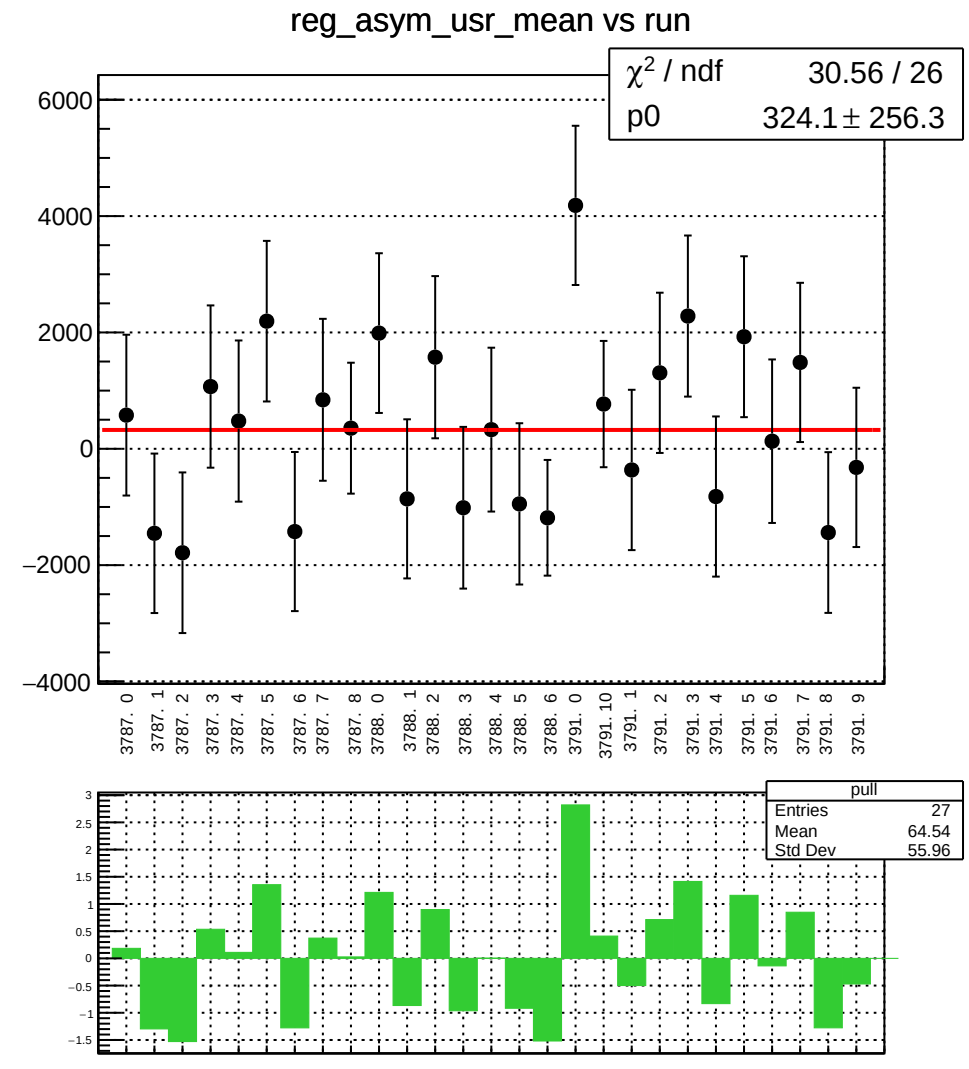

pull1D
Entries 27
Mean −0.001557
Std Dev 1.256
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

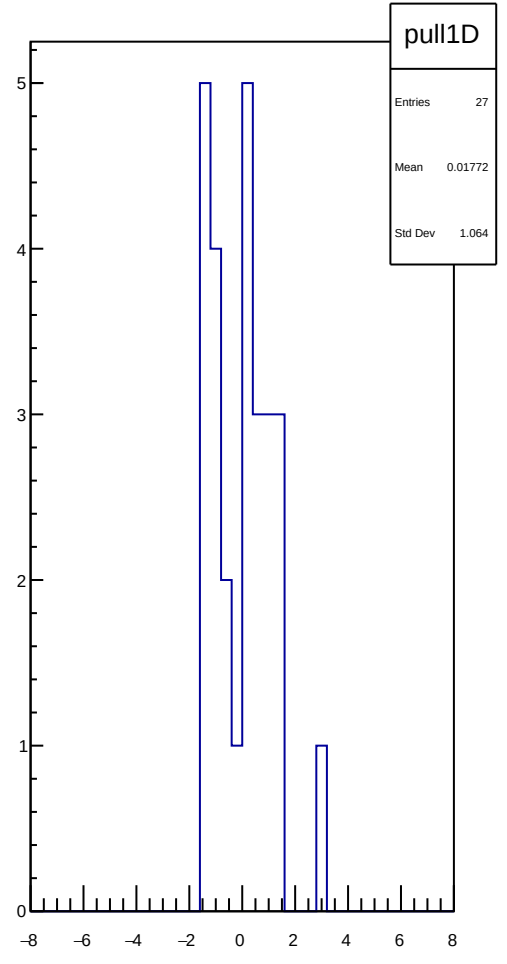

asym_usl_correction_rms vs run
χ² / ndf 287.5 / 26
p0 626.4 ± 0.8673
670
660
650
640
630
620
610
600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

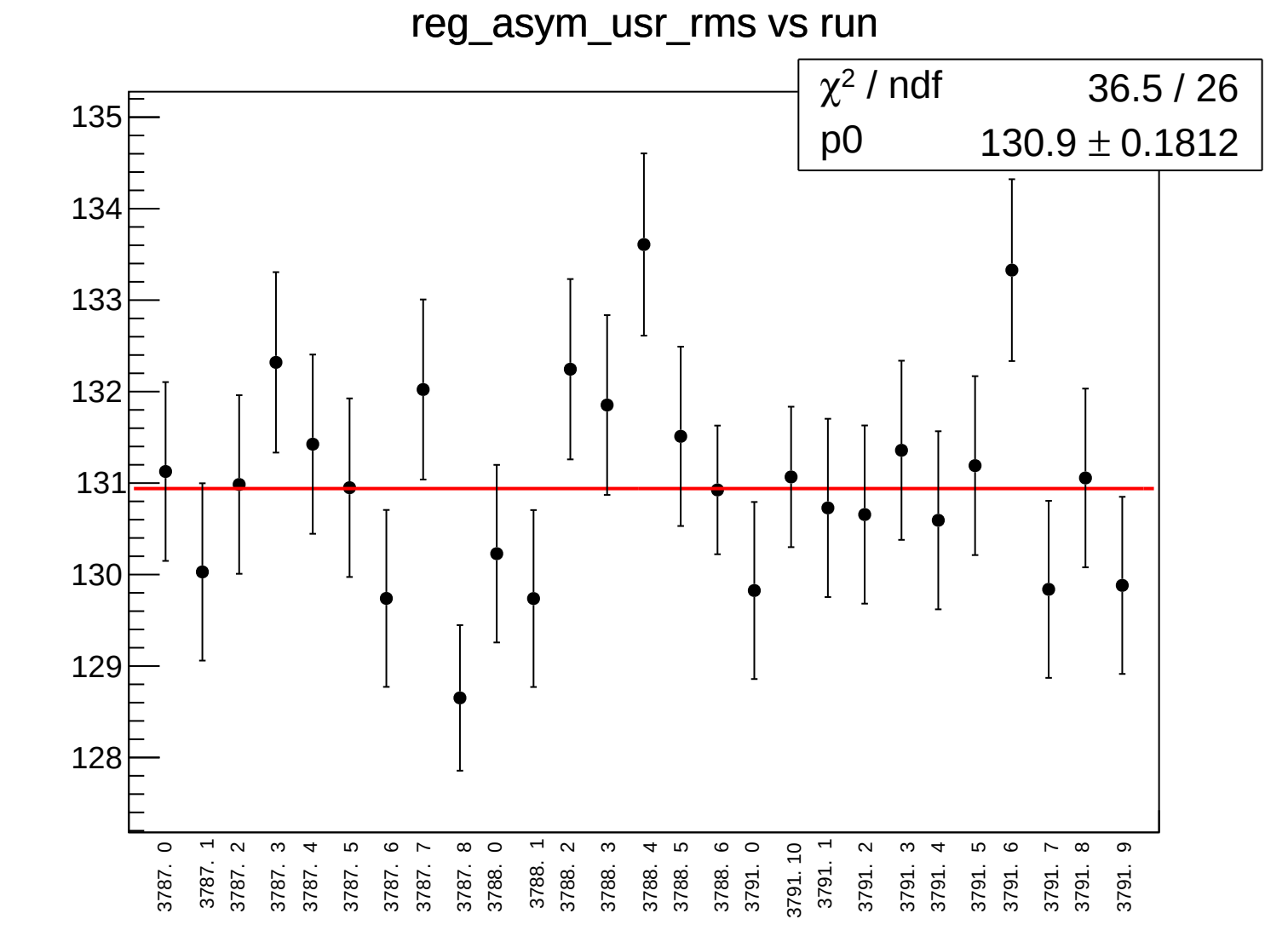

asym_usl_mean vs run
χ² / ndf 39.88 / 26
p0 2199 ± 1255
30000
20000
10000
0
−10000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −137.2
Std Dev 149.4
2
1
0
−1
−2

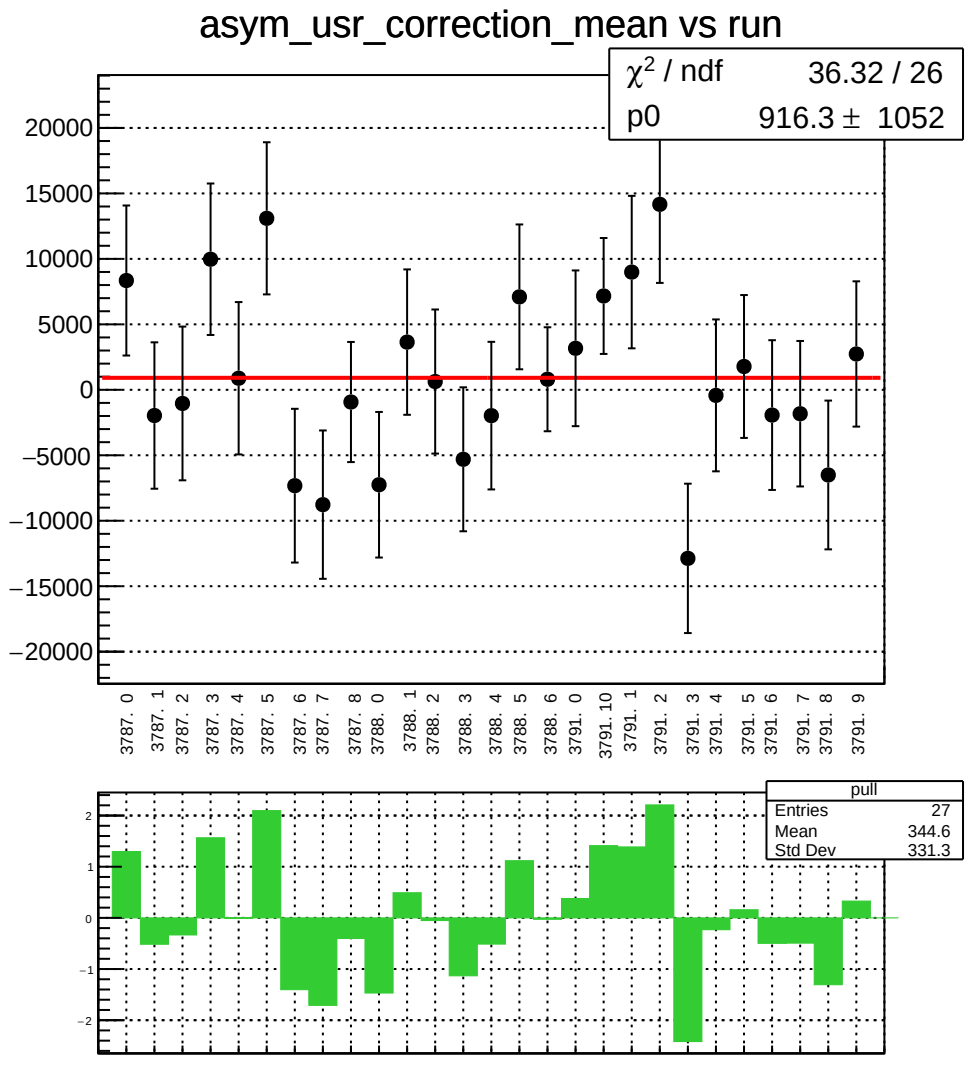

pull1D
Entries 27
Mean 0.005478
Std Dev 1.215
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

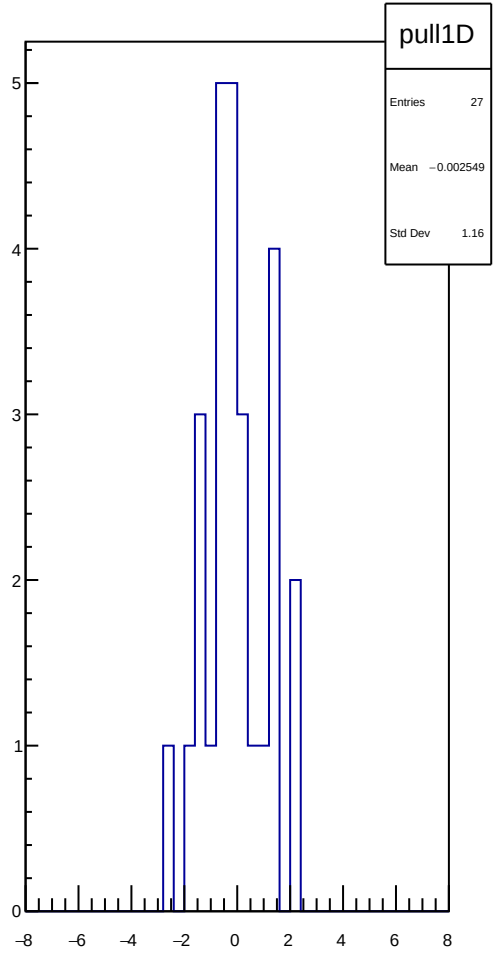

asym_usl_rms vs run
χ² / ndf 264 / 26
p0 641.1 ± 0.8875
680
670
660
650
640
630
620
610
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

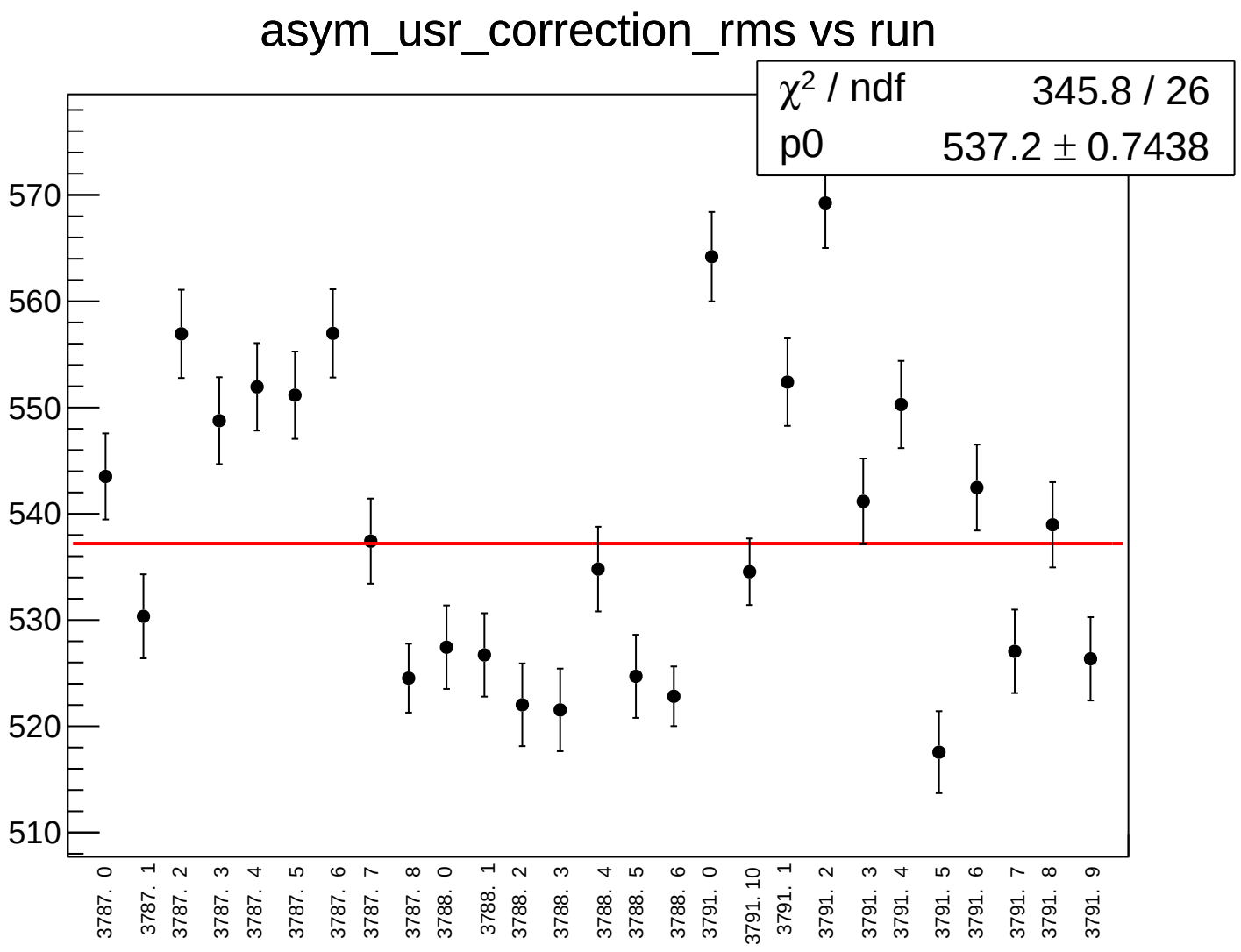

reg_asym_usr_mean vs run
χ² / ndf 30.56 / 26
p0 324.1 ± 256.3
6000
4000
2000
0
−2000
−4000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 64.54
Std Dev 55.96
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

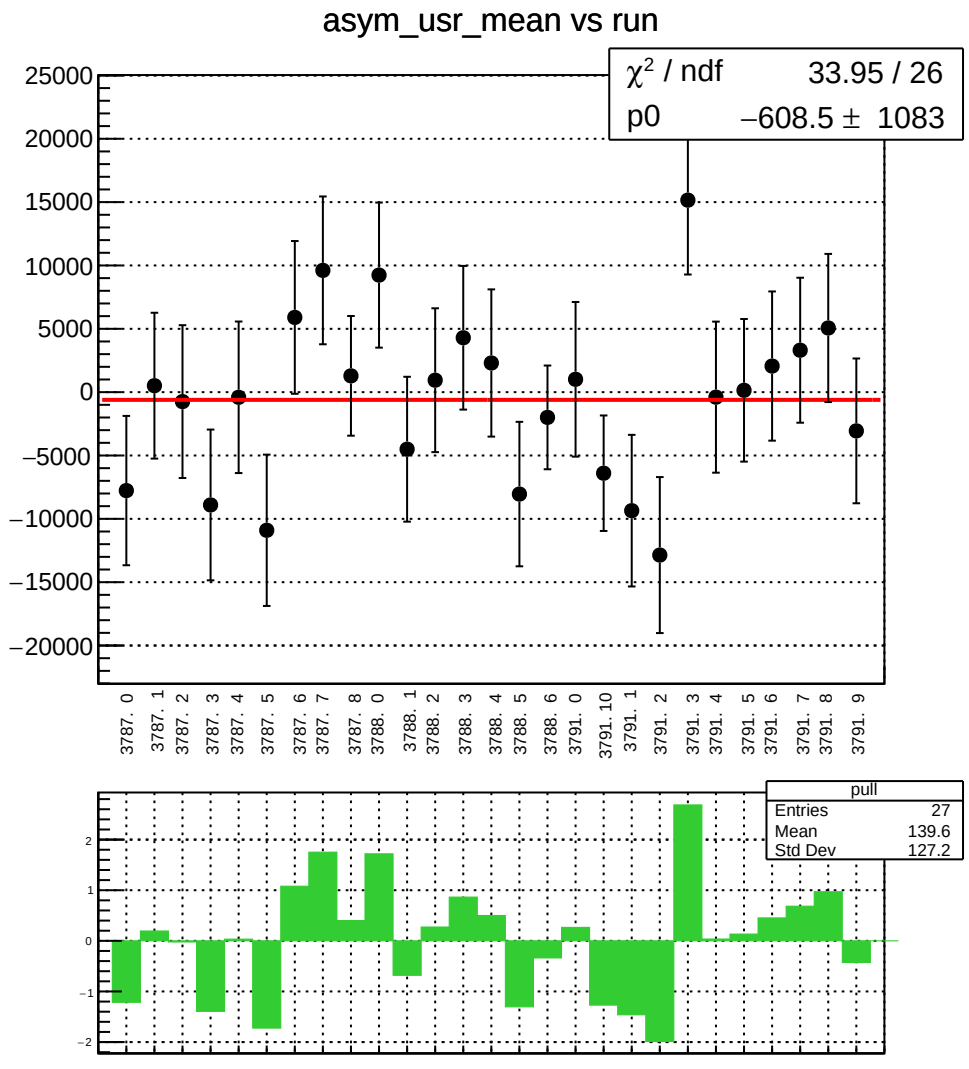

pull1D
Entries 27
Mean 0.01772
Std Dev 1.064
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

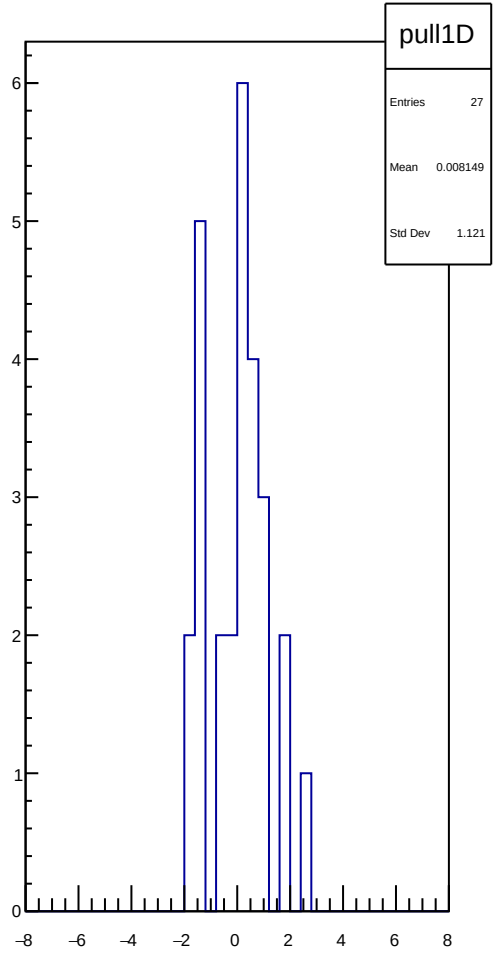

reg_asym_usr_rms vs run
χ² / ndf 36.5 / 26
p0 130.9 ± 0.1812
135
134
133
132
131
130
129
128
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

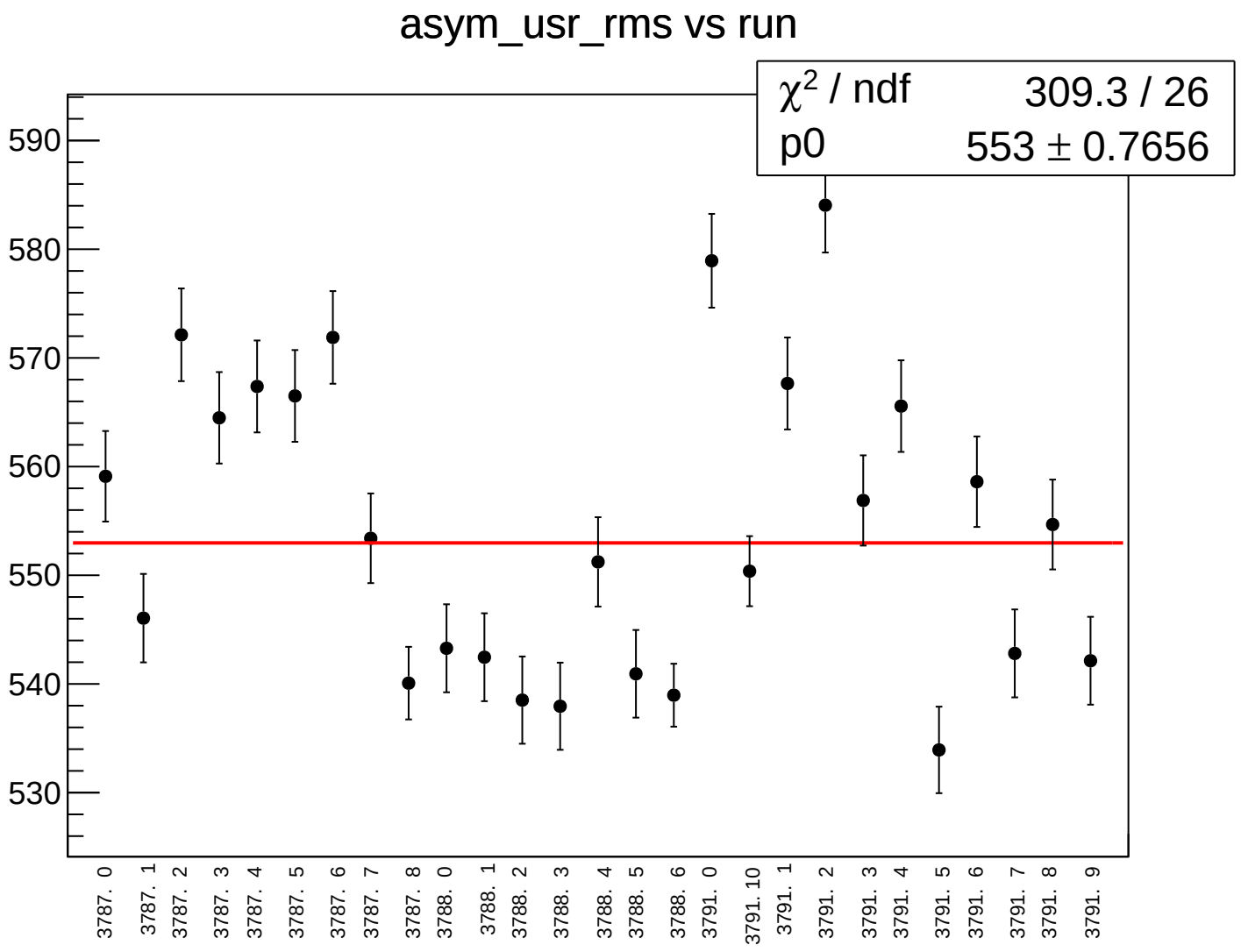

asym_usr_correction_mean vs run
χ² / ndf 36.32 / 26
p0 916.3 ± 1052
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 344.6
Std Dev 331.3
2
1
0
−1
−2

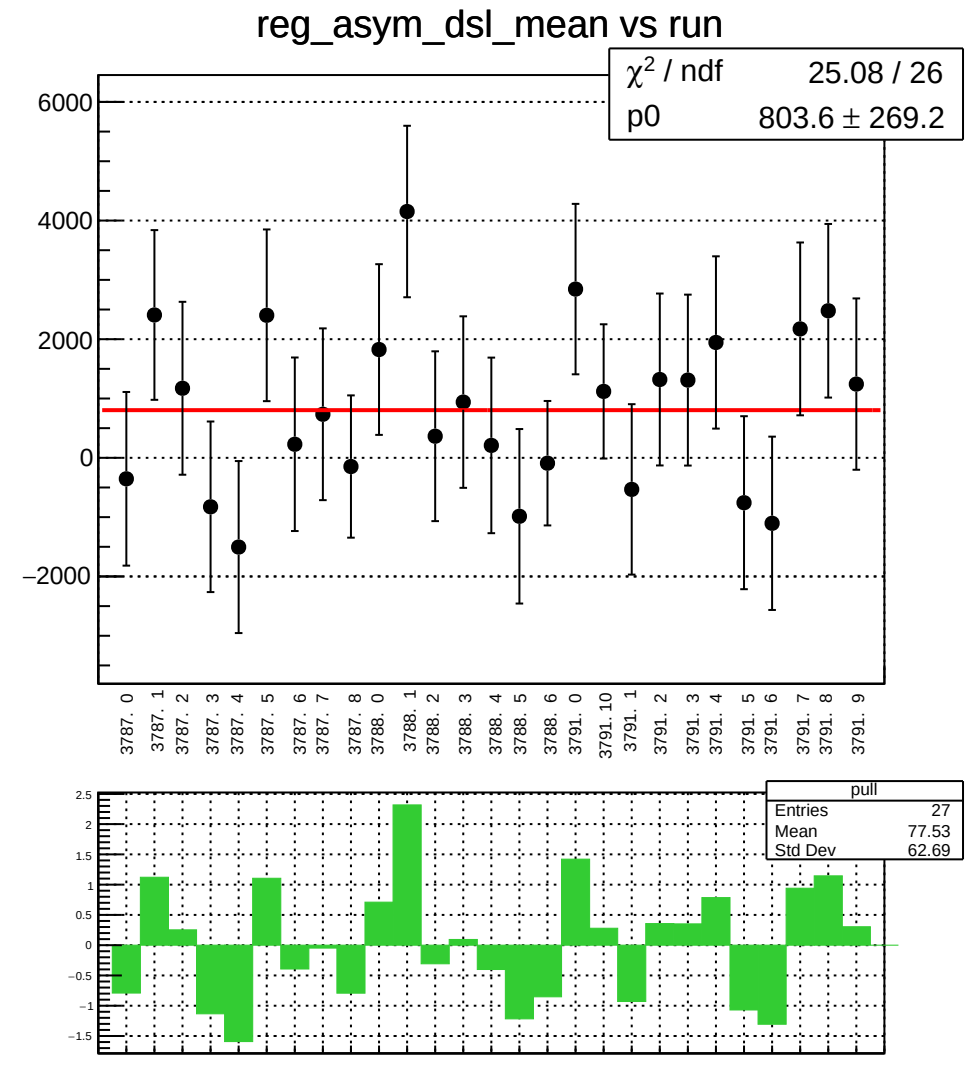

pull1D
Entries 27
Mean −0.002549
Std Dev 1.16
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

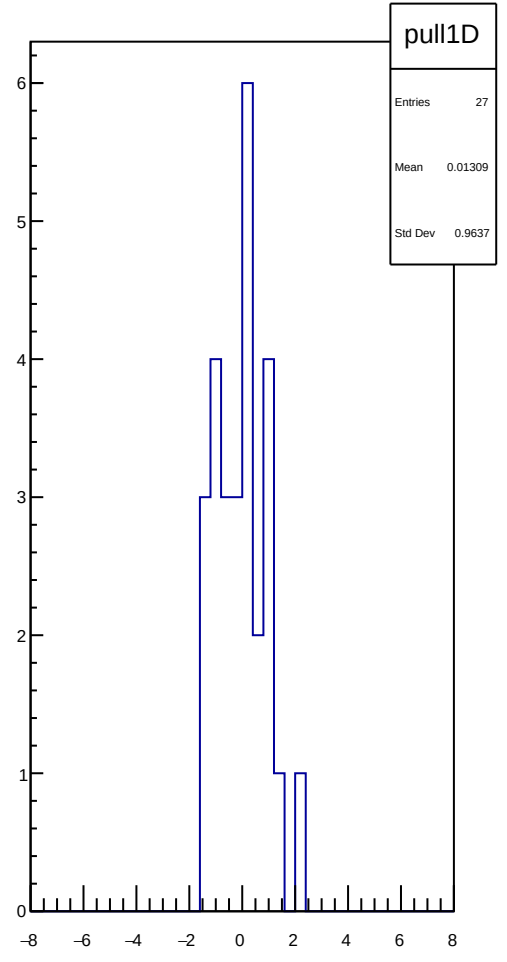

asym_usr_correction_rms vs run
χ² / ndf 345.8 / 26
p0 537.2 ± 0.7438
570
560
550
540
530
520
510
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

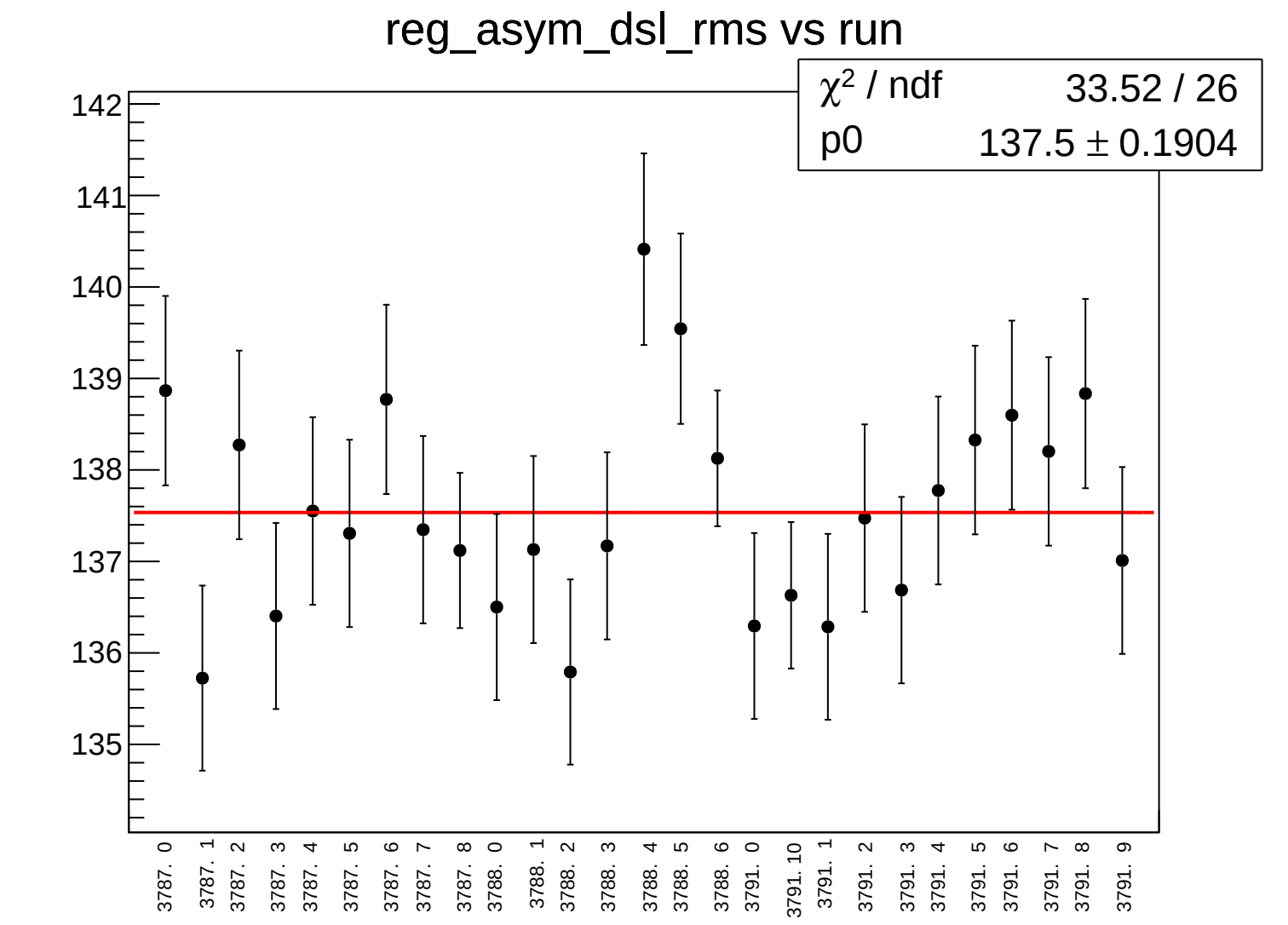

asym_usr_mean vs run
χ² / ndf 33.95 / 26
p0 −608.5 ± 1083
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 139.6
Std Dev 127.2
2
1
0
−1
−2

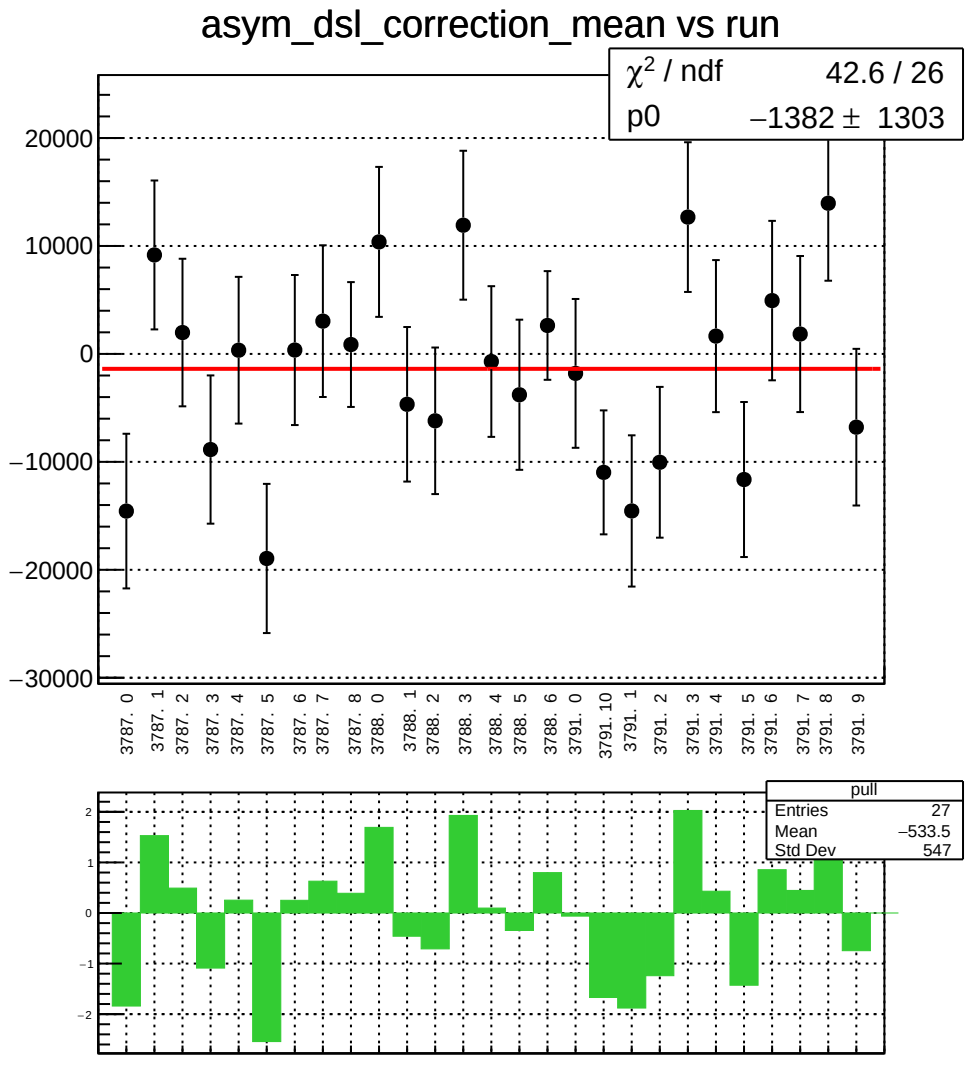

pull1D
Entries 27
Mean 0.008149
Std Dev 1.121
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

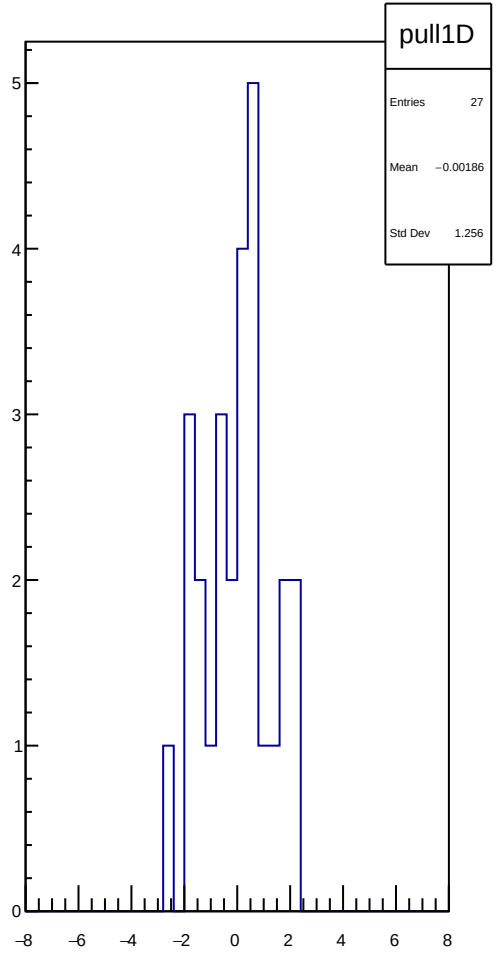

asym_usr_rms vs run
χ² / ndf 309.3 / 26
p0 553 ± 0.7656
590
580
570
560
550
540
530
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

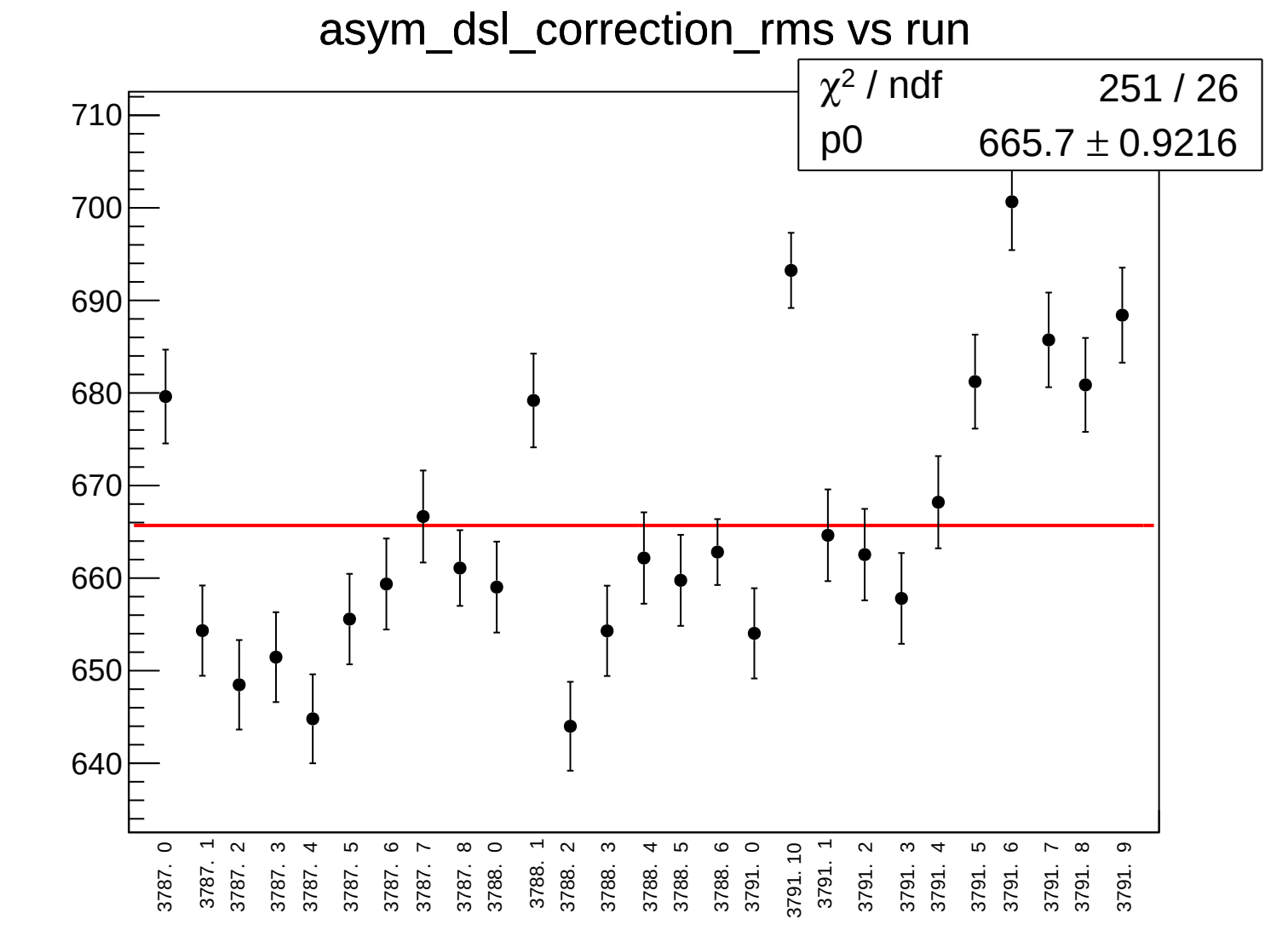

reg_asym_dsl_mean vs run
χ² / ndf 25.08 / 26
p0 803.6 ± 269.2
6000
4000
2000
0
−2000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 77.53
Std Dev 62.69
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 27
Mean 0.01309
Std Dev 0.9637
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_rms vs run
χ² / ndf 33.52 / 26
p0 137.5 ± 0.1904
142
141
140
139
138
137
136
135
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


asym_dsl_correction_mean vs run
χ² / ndf 42.6 / 26
p0 −1382 ± 1303
20000
10000
0
−10000
−20000
−30000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −533.5
Std Dev 547
2
1
0
−1
−2


pull1D
Entries 27
Mean −0.00186
Std Dev 1.256
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsl_correction_rms vs run
χ² / ndf 251 / 26
p0 665.7 ± 0.9216
710
700
690
680
670
660
650
640
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
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3791. 6
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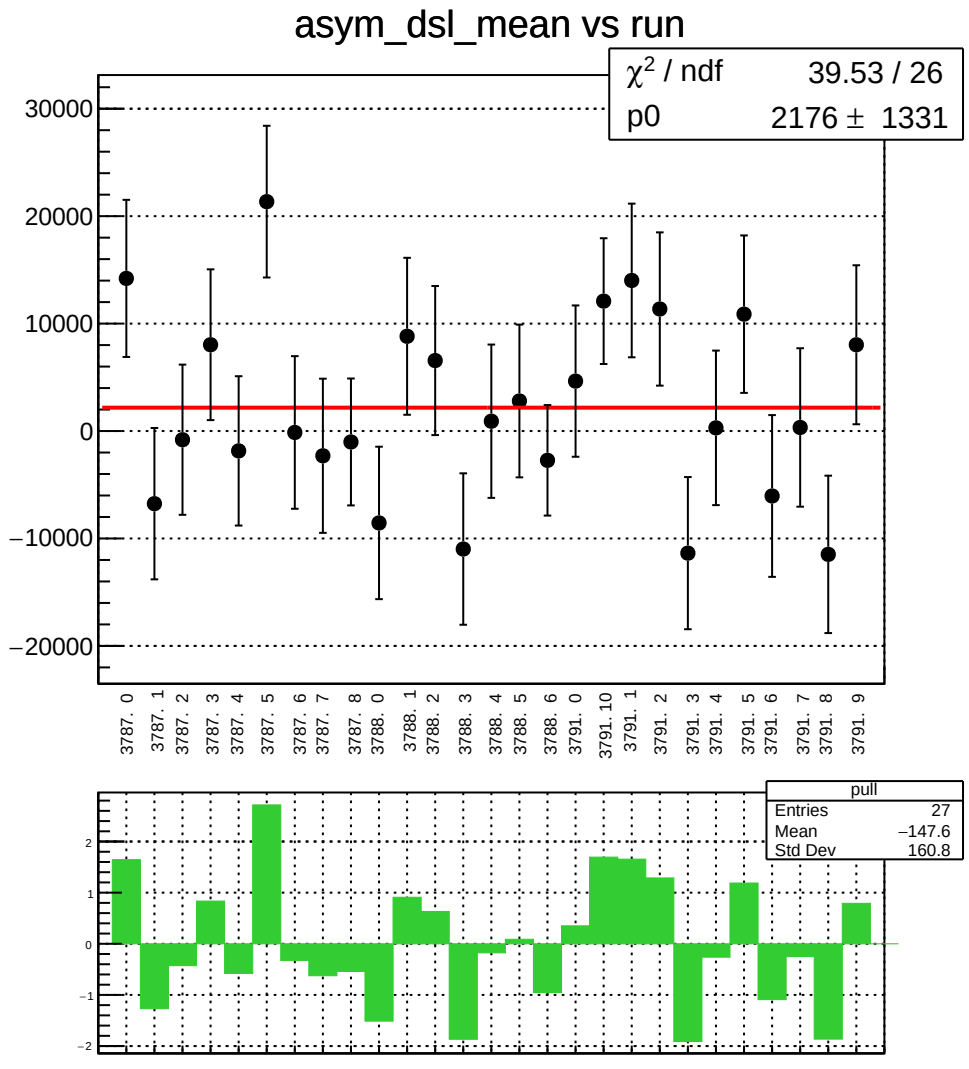
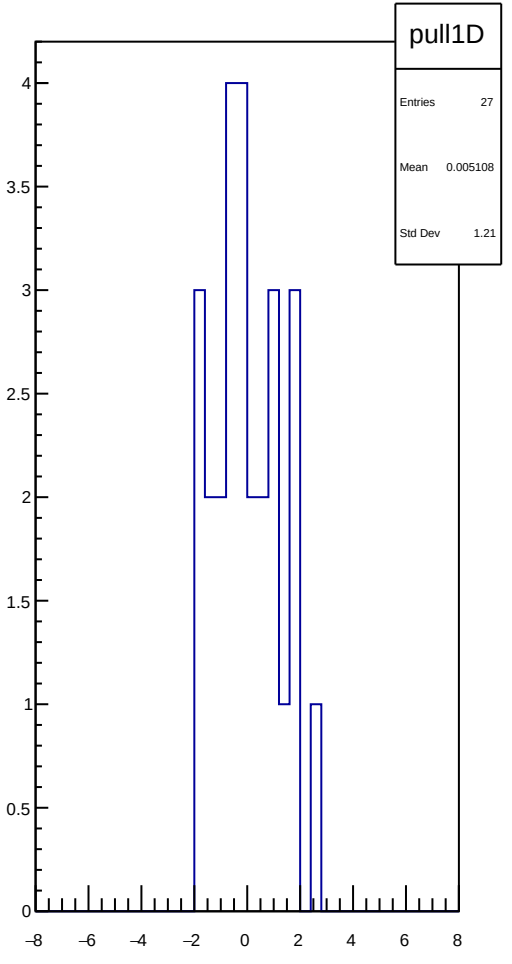
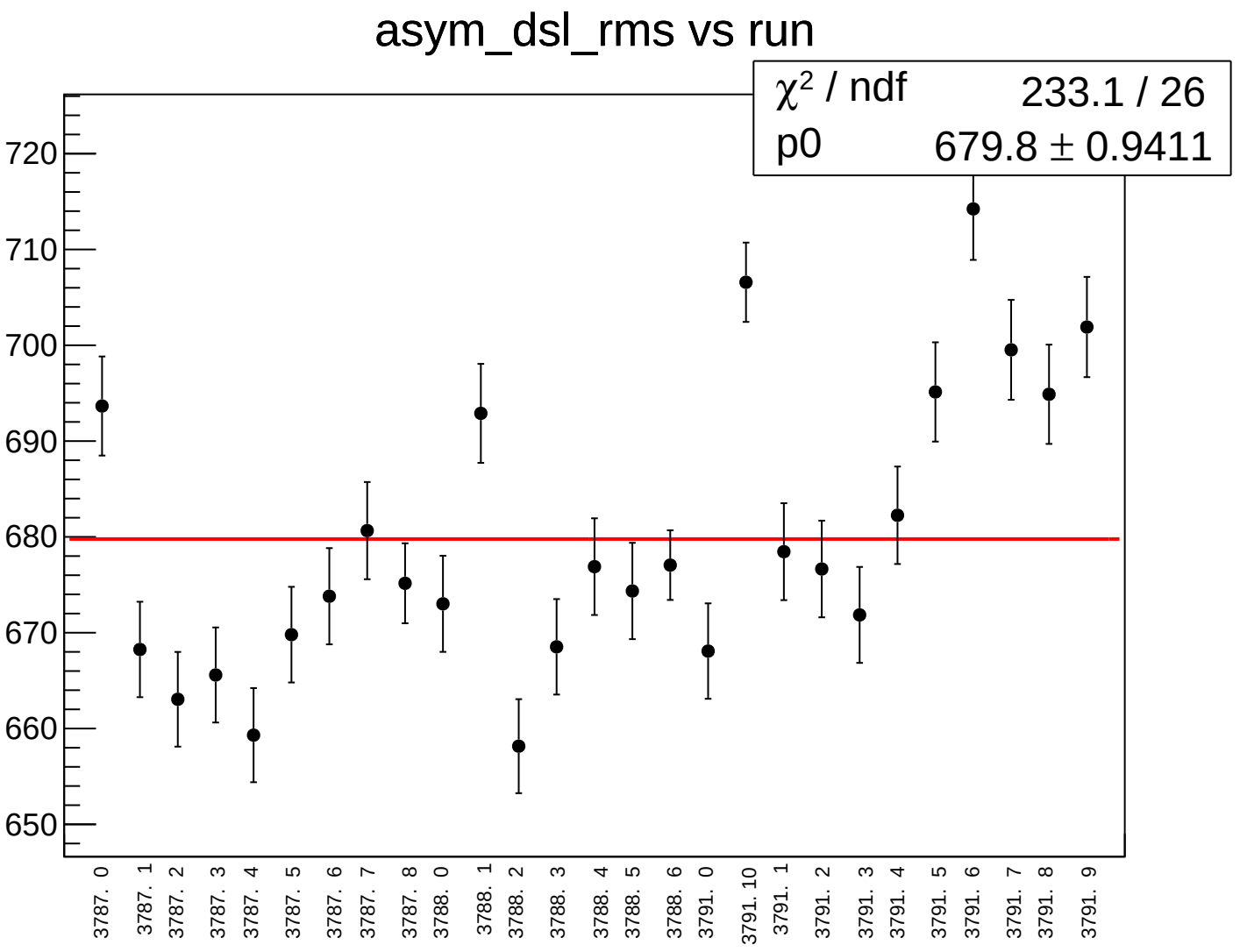
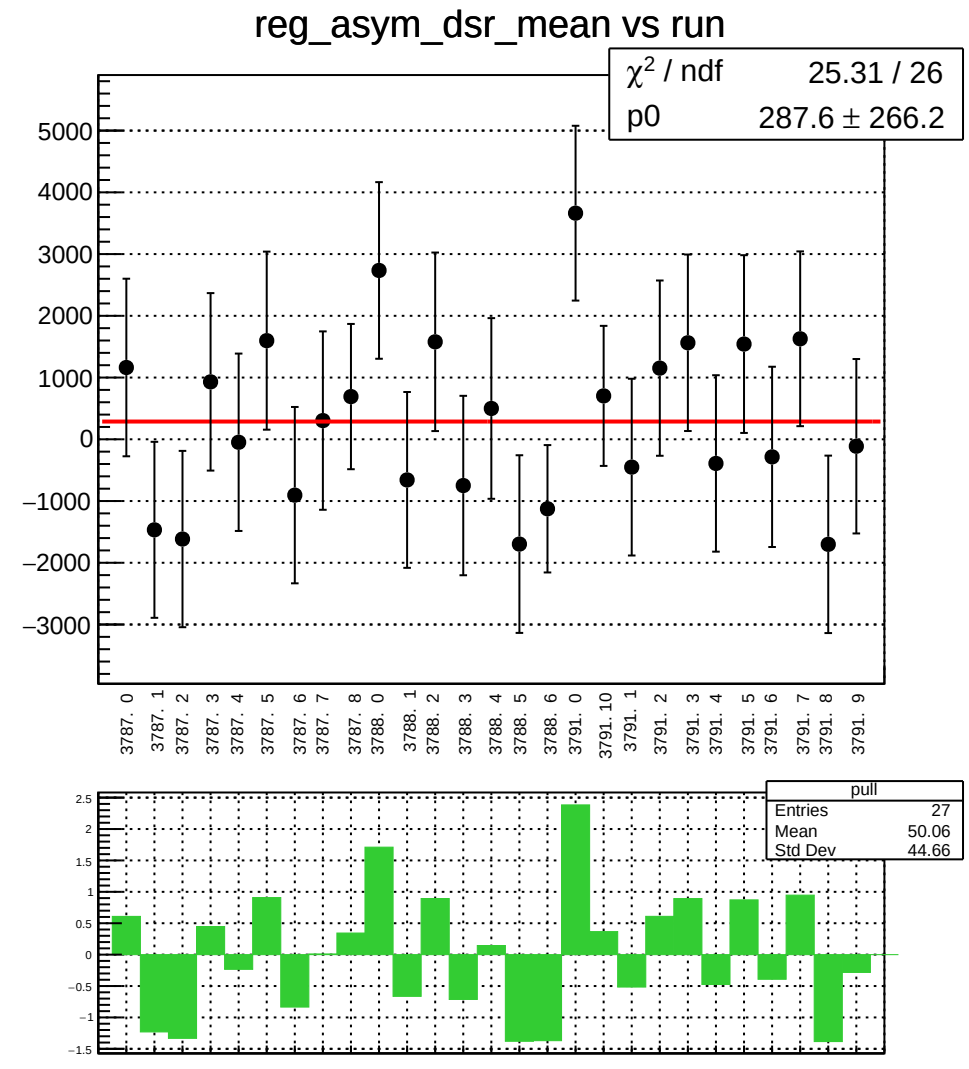
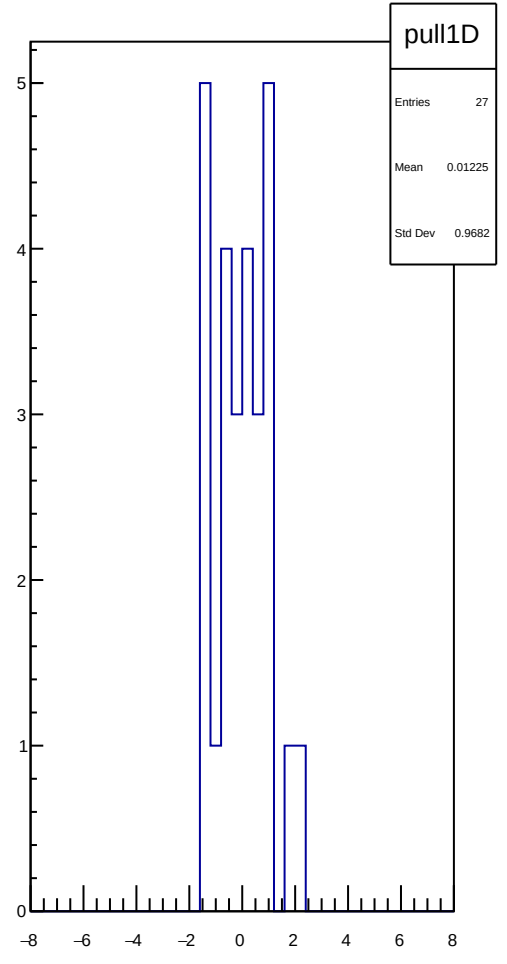
3791. 8
3791. 9

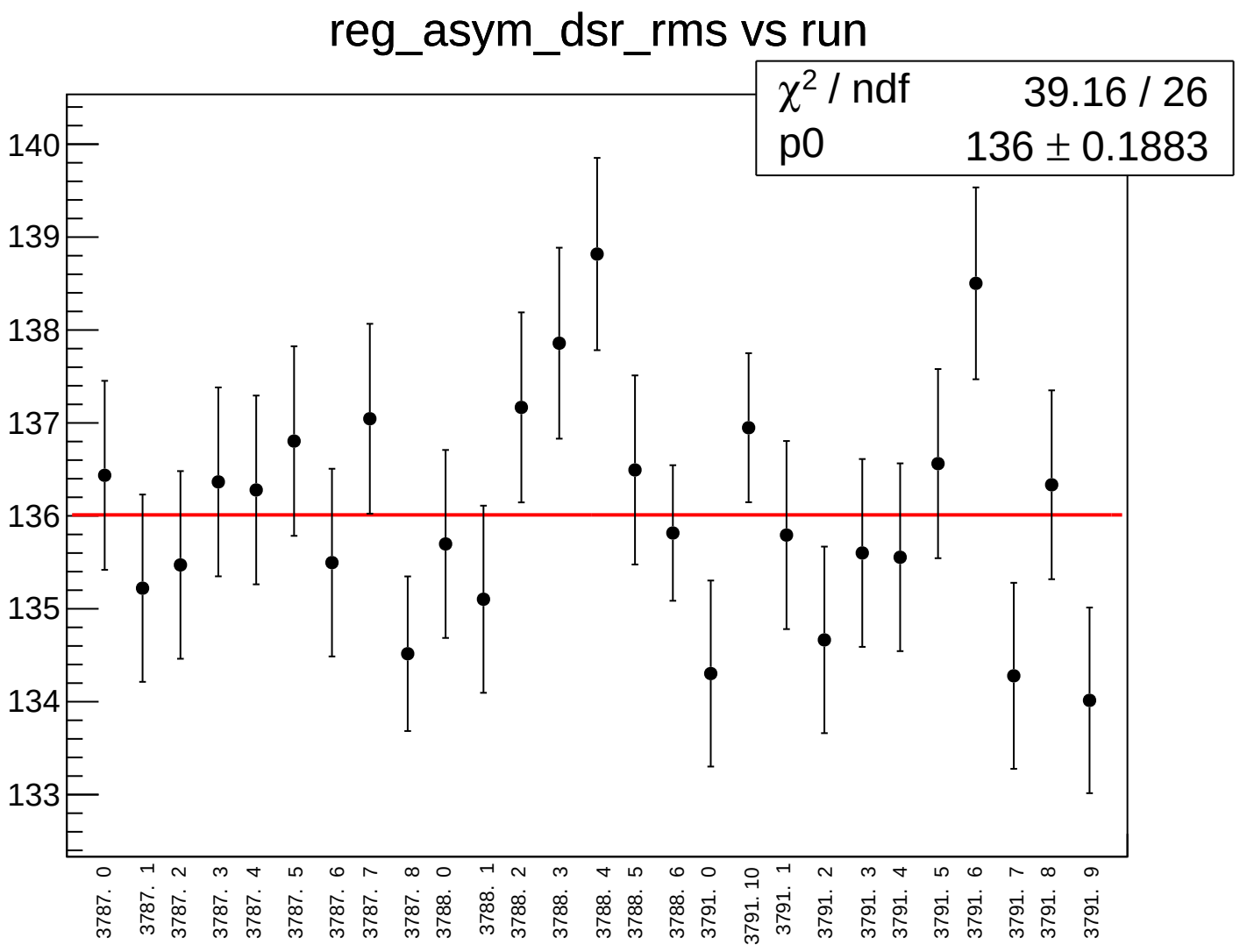

asym_dsl_mean vs run
χ² / ndf 39.53 / 26
p0 2176 ± 1331
30000
20000
10000
0
−10000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −147.6
Std Dev 160.8
2
1
0
−1
−2

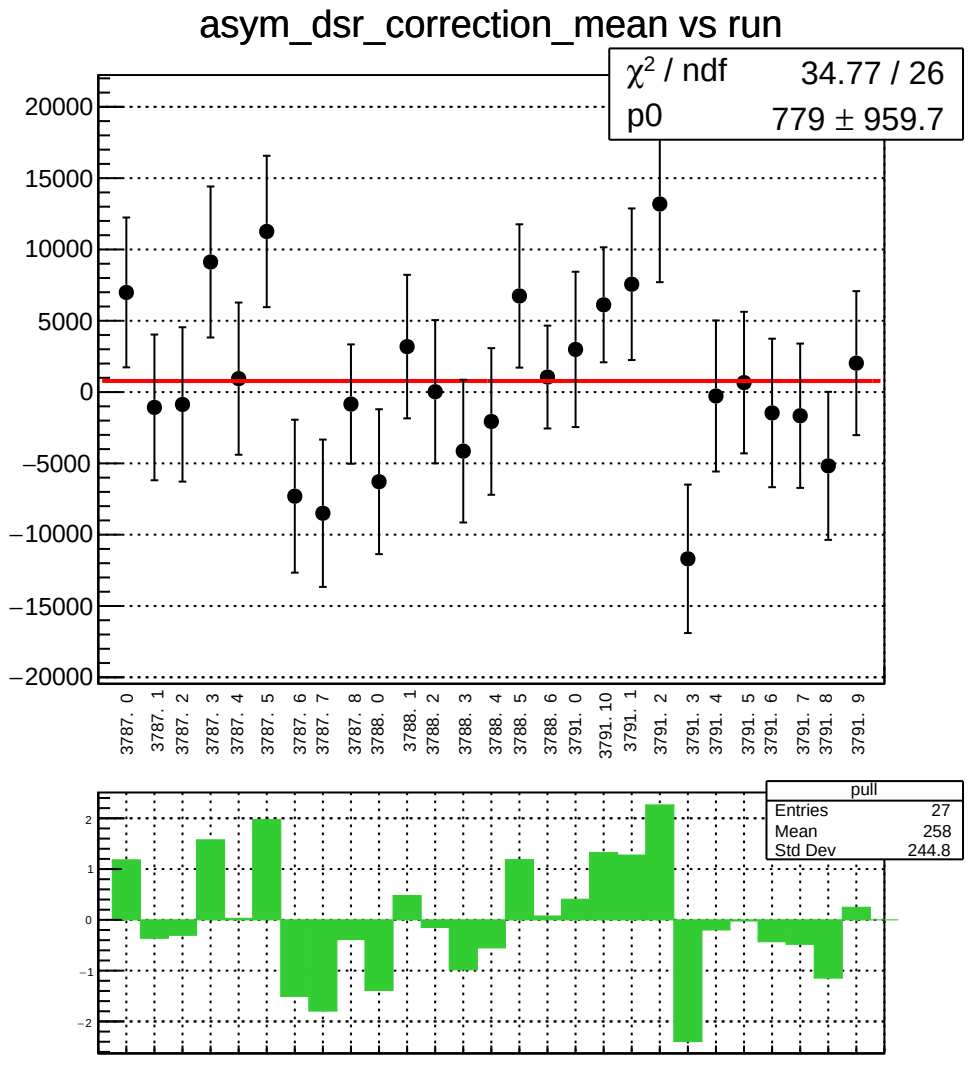

pull1D
Entries 27
Mean 0.005108
Std Dev 1.21
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

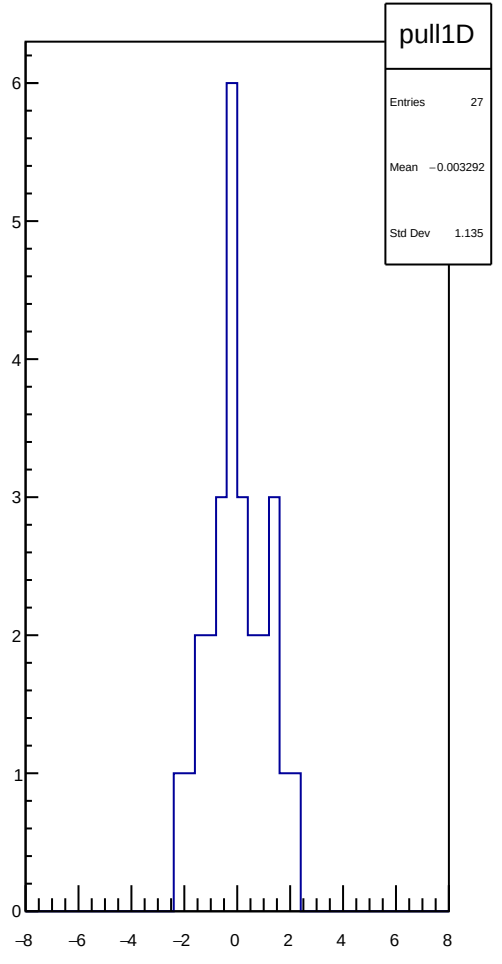

asym_dsl_rms vs run
χ² / ndf 233.1 / 26
p0 679.8 ± 0.9411
720
710
700
690
680
670
660
650
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

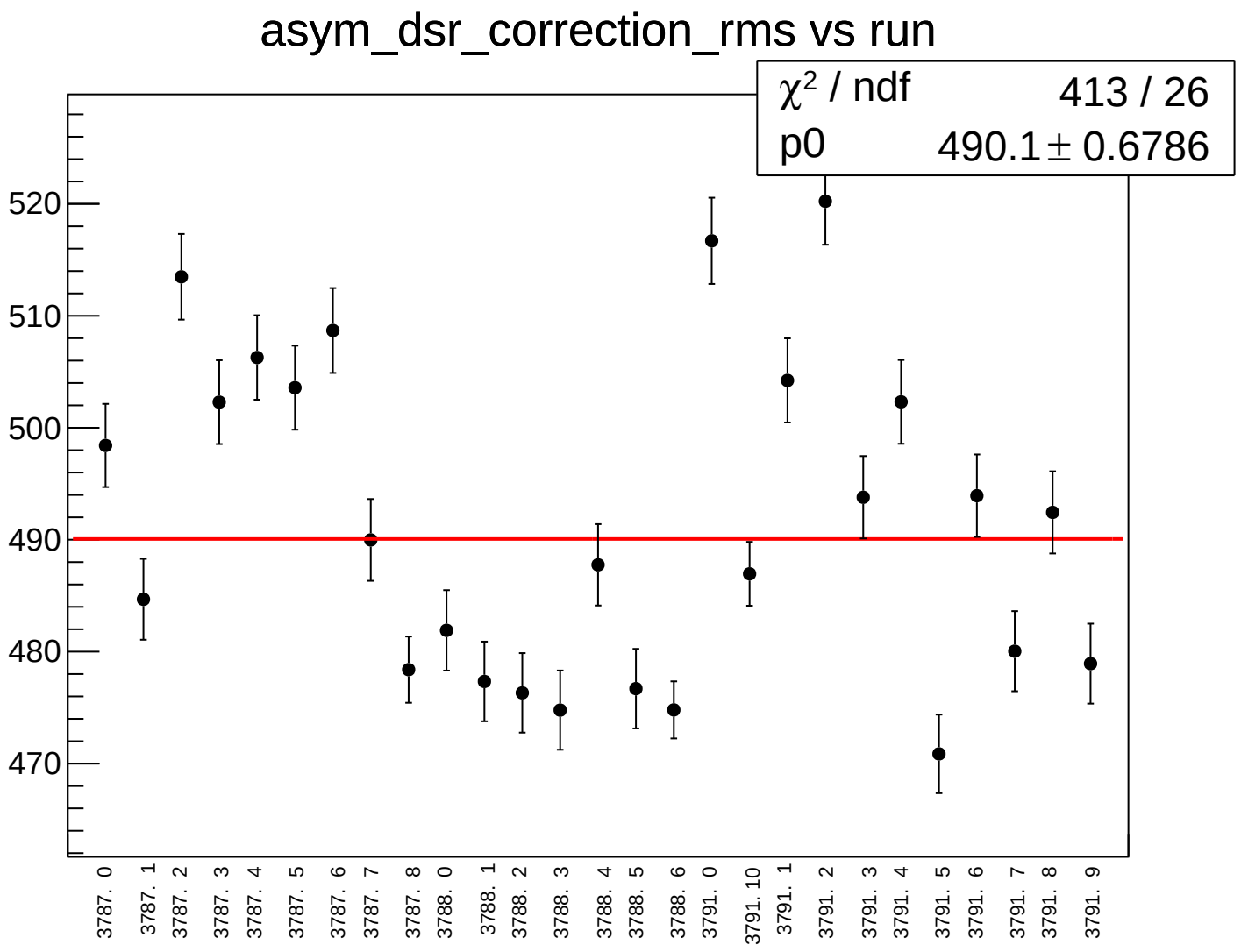

reg_asym_dsr_mean vs run
χ² / ndf 25.31 / 26
p0 287.6 ± 266.2
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 50.06
Std Dev 44.66
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

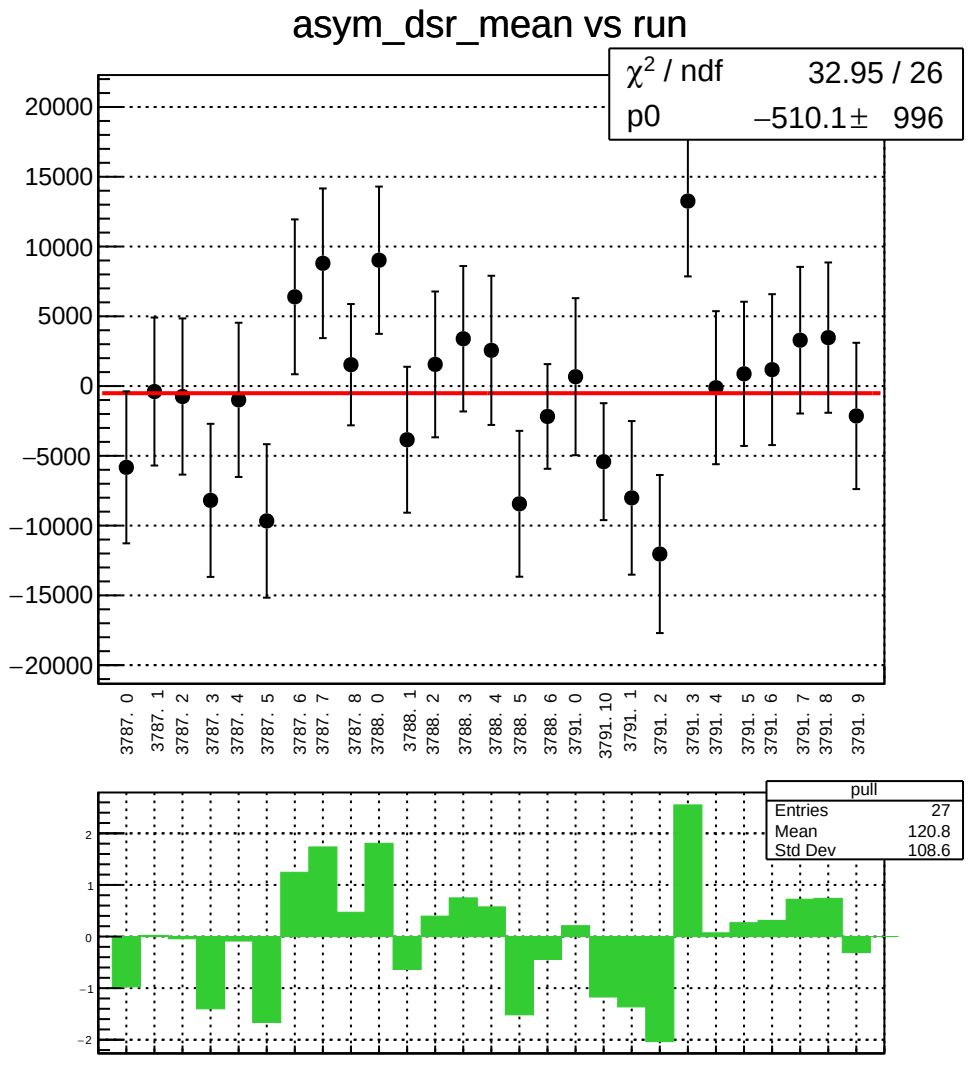

pull1D
Entries 27
Mean 0.01225
Std Dev 0.9682
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

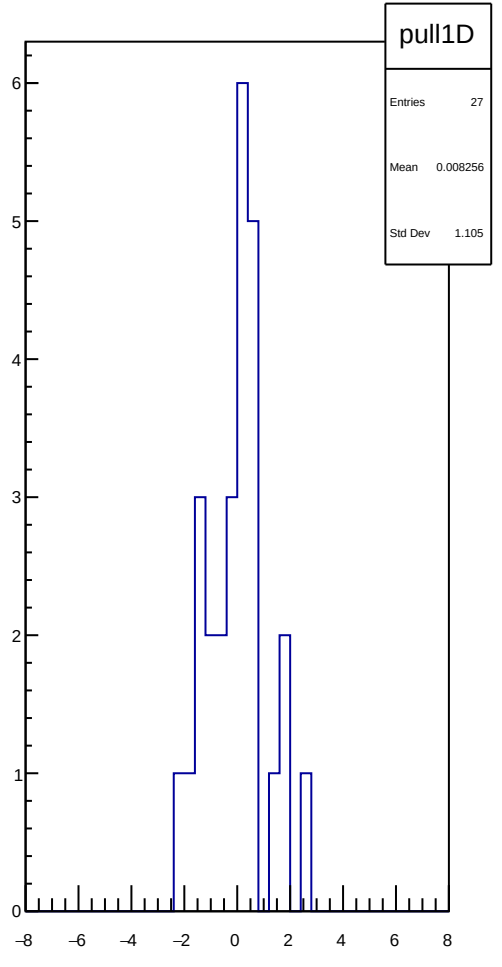

reg_asym_dsr_rms vs run
χ^2 / ndf 39.16 / 26
p0 136 ± 0.1883
140
139
138
137
136
135
134
133
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

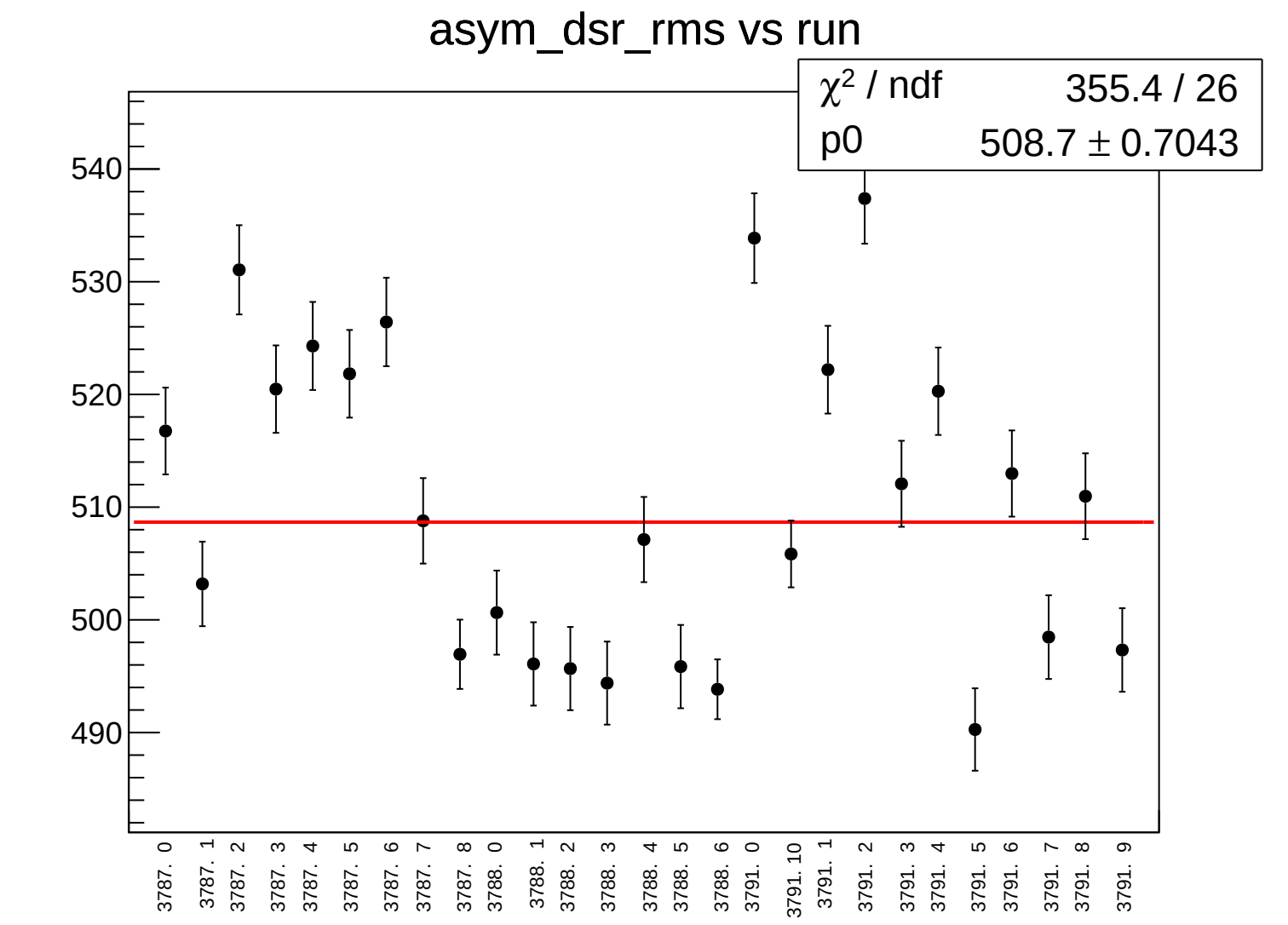

asym_dsr_correction_mean vs run
χ² / ndf 34.77 / 26
p0 779 ± 959.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 258
Std Dev 244.8
2
1
0
−1
−2

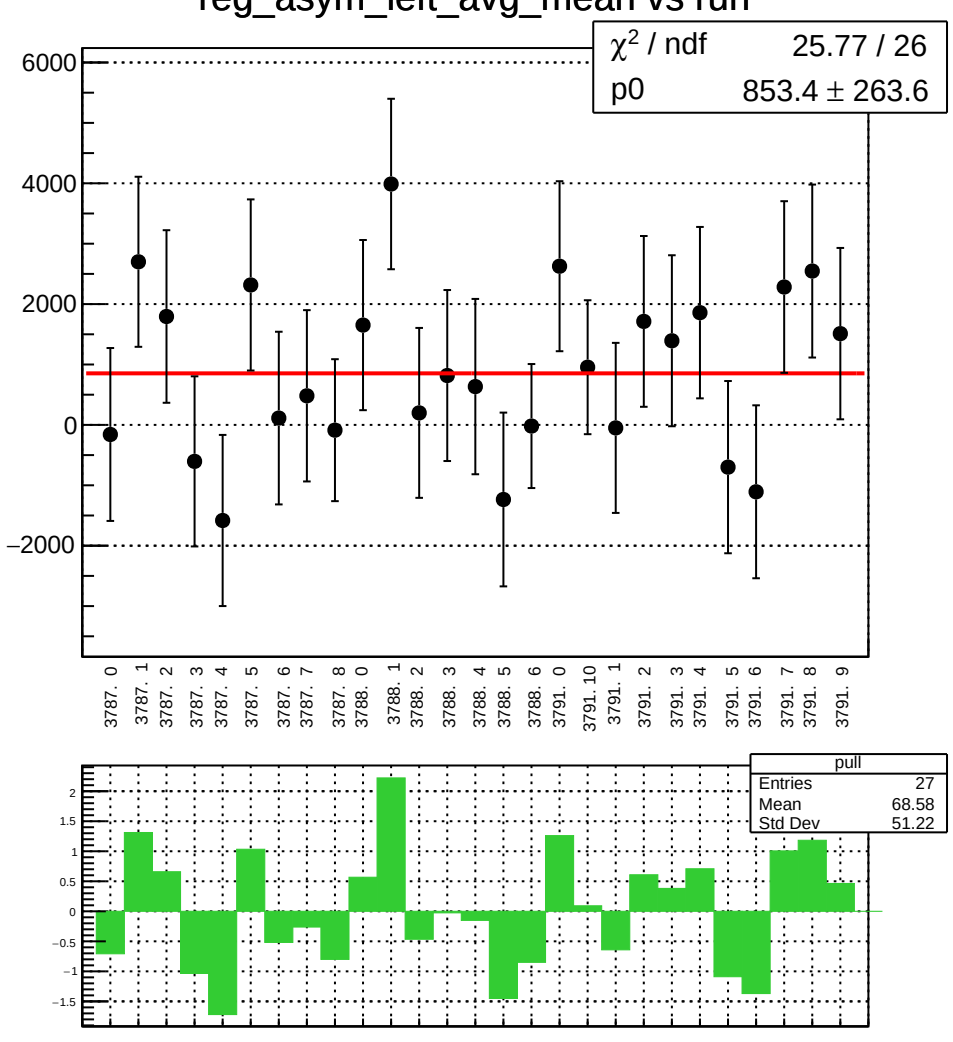

pull1D
Entries 27
Mean −0.003292
Std Dev 1.135
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

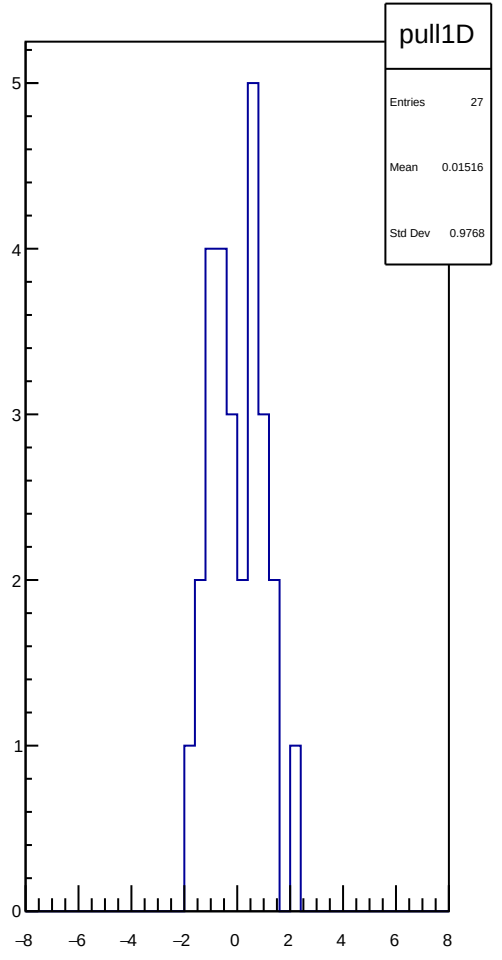

asym_dsr_correction_rms vs run
χ² / ndf 413 / 26
p0 490.1 ± 0.6786
520
510
500
490
480
470
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

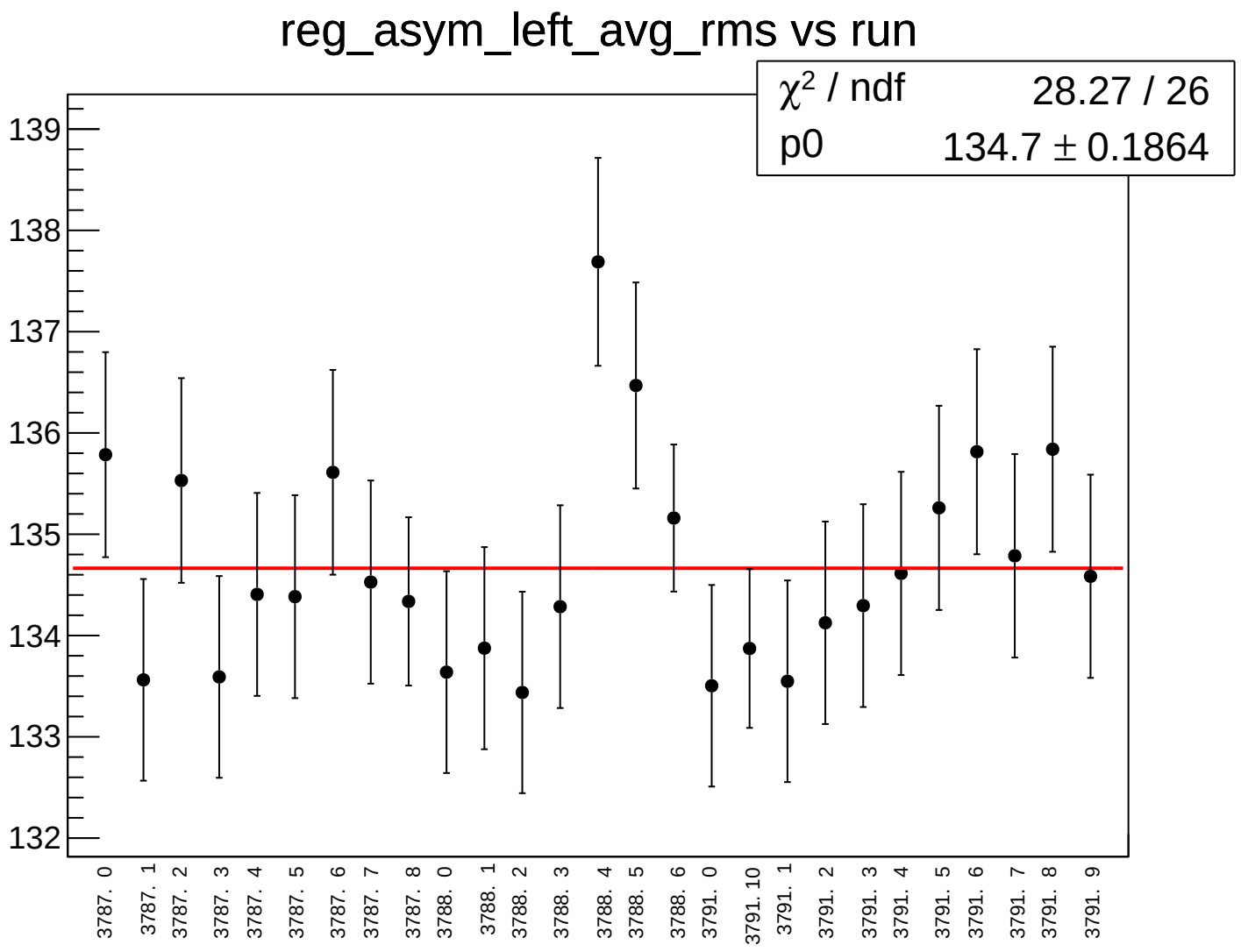

asym_dsr_mean vs run
χ² / ndf 32.95 / 26
p0 −510.1± 996
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 120.8
Std Dev 108.6
2
1
0
−1
−2

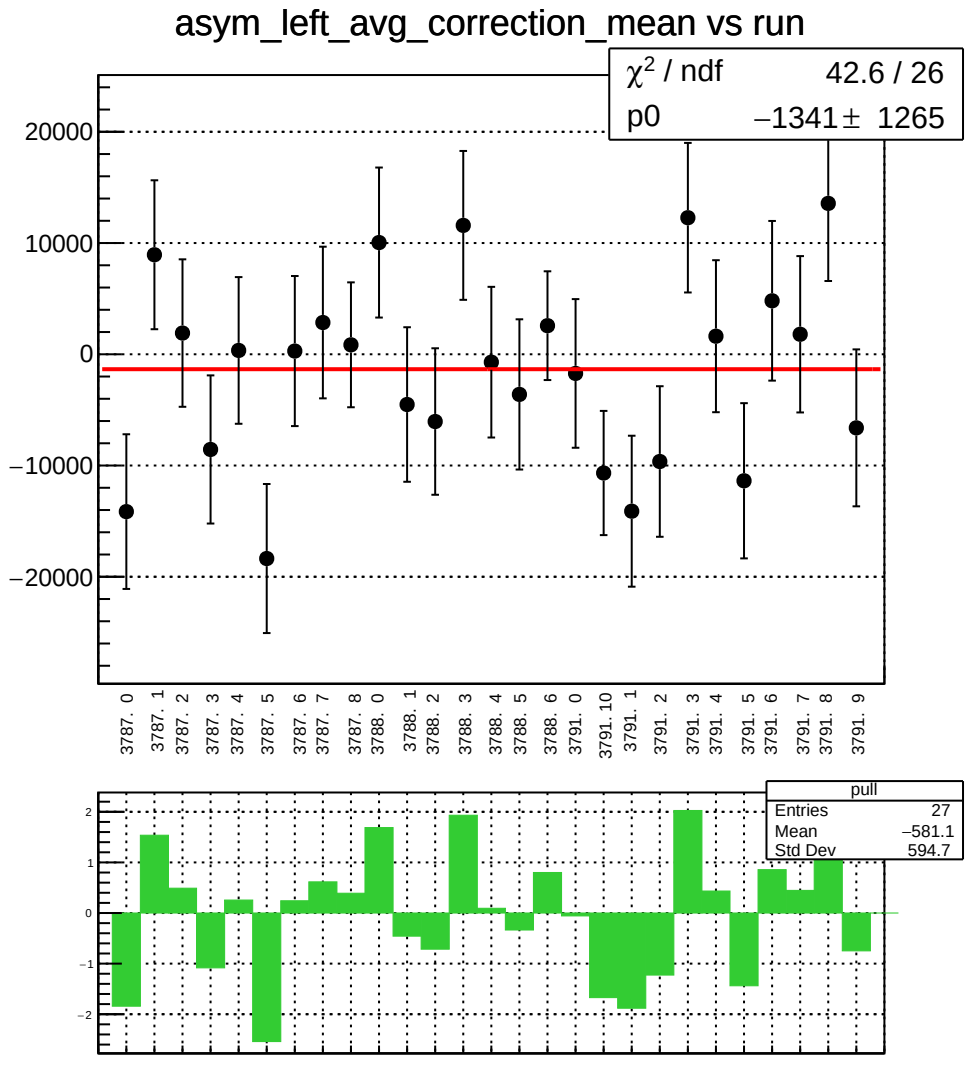

pull1D
Entries 27
Mean 0.008256
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

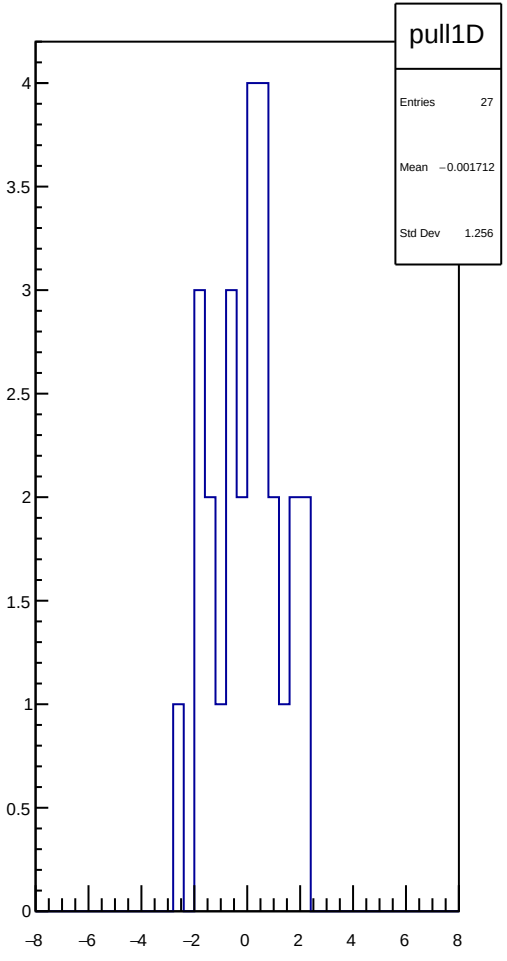

asym_dsr_rms vs run
χ² / ndf 355.4 / 26
p0 508.7 ± 0.7043
540
530
520
510
500
490
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

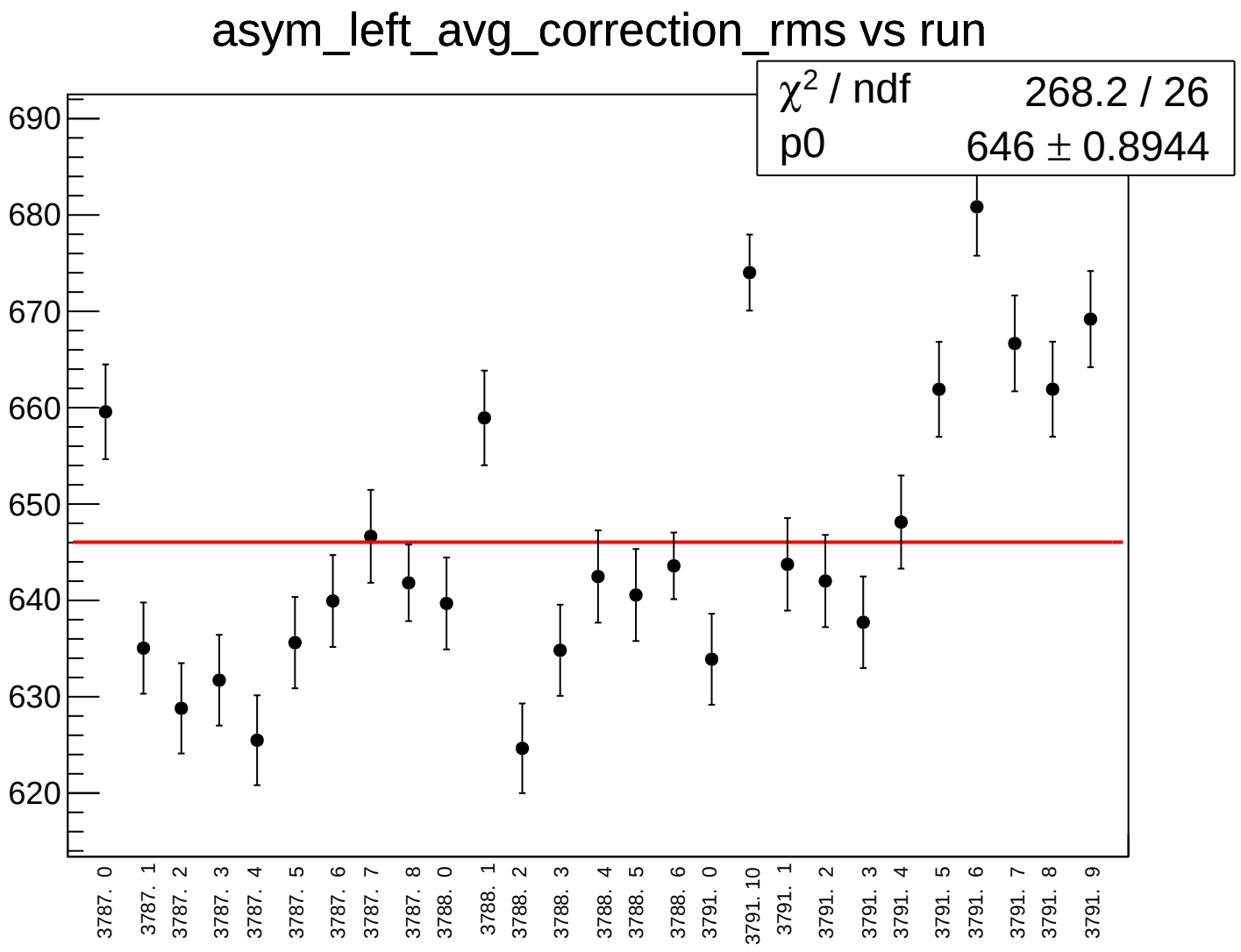

reg_asym_left_avg_mean vs run
χ² / ndf 25.77 / 26
p0 853.4 ± 263.6
6000
4000
2000
0
−2000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 68.58
Std Dev 51.22
2
1.5
1
0.5
0
−0.5
−1
−1.5

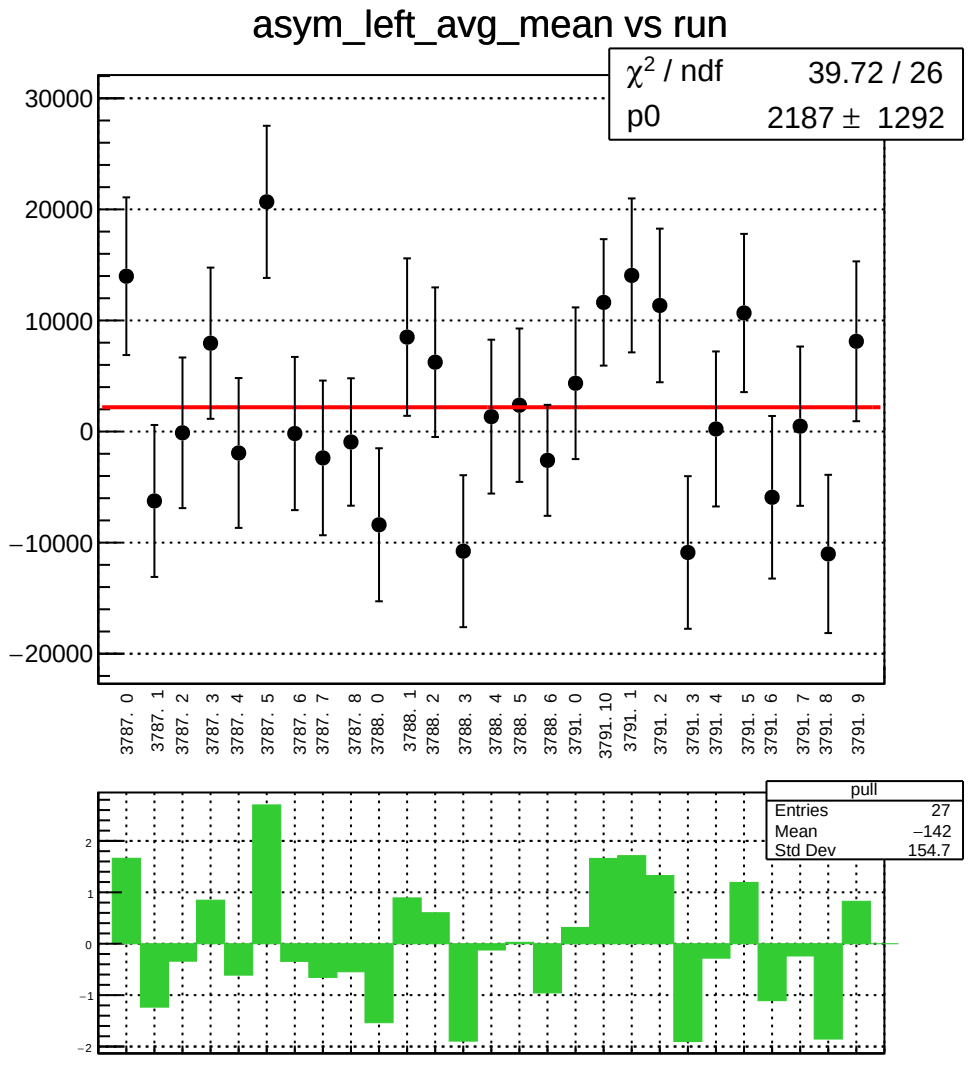

pull1D
Entries 27
Mean 0.01516
Std Dev 0.9768
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

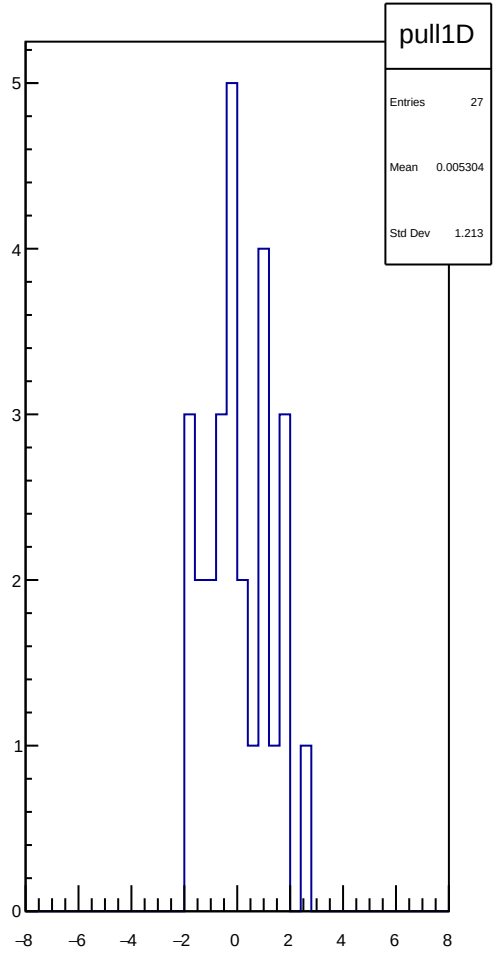

reg_asym_left_avg_rms vs run
χ² / ndf 28.27 / 26
p0 134.7 ± 0.1864
139
138
137
136
135
134
133
132
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

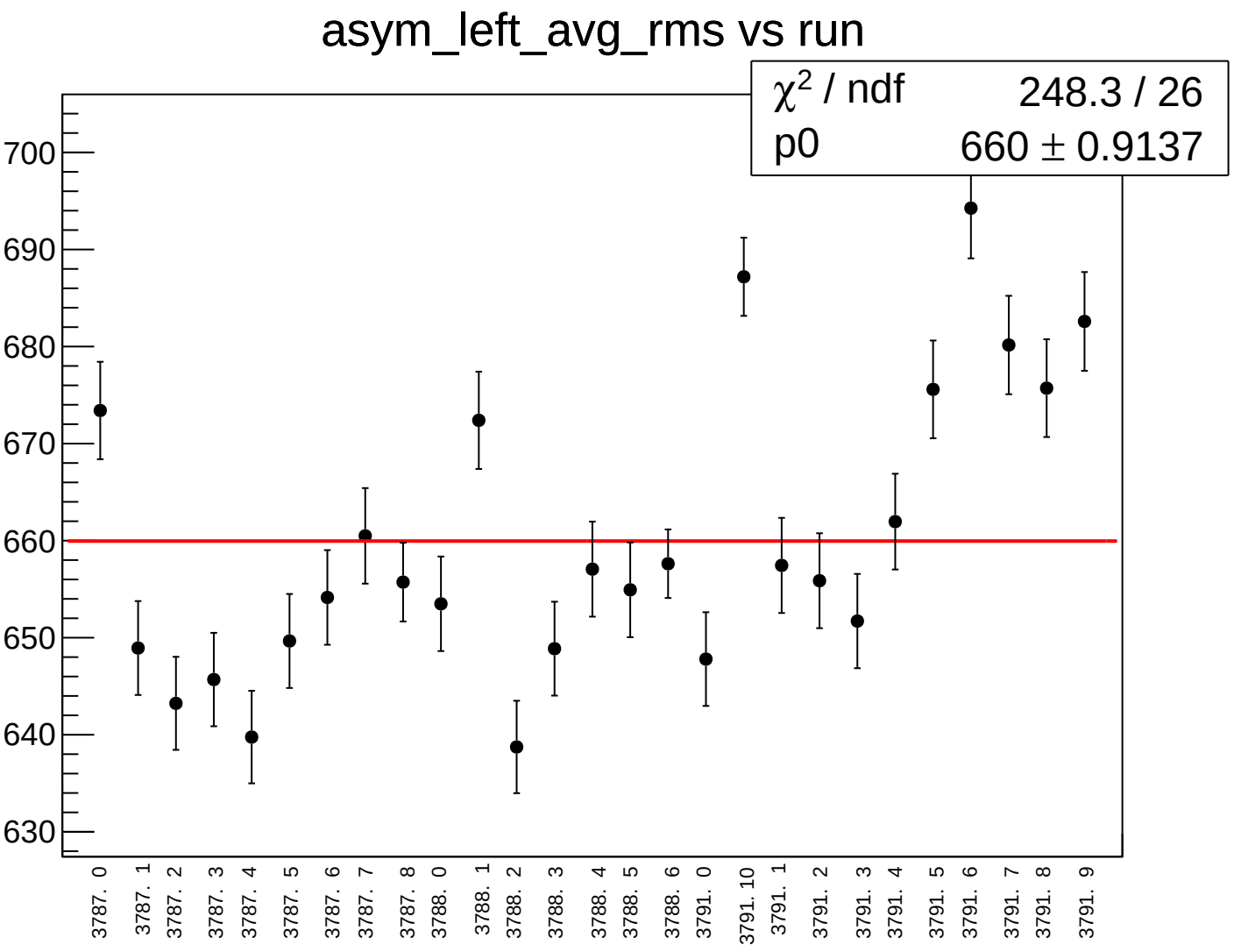

asym_left_avg_correction_mean vs run
χ² / ndf 42.6 / 26
p0 −1341 ± 1265
20000
10000
0
−10000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −581.1
Std Dev 594.7
2
1
0
−1
−2

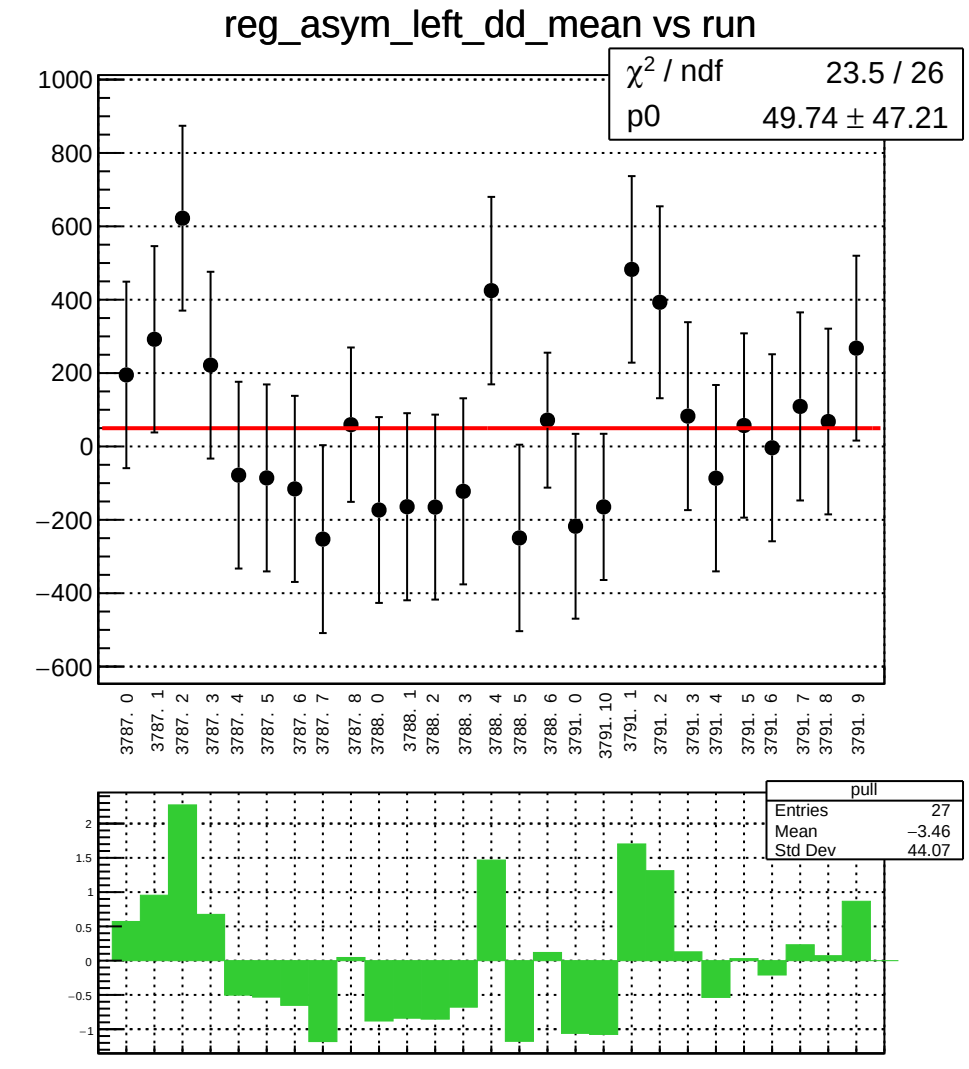

pull1D
Entries 27
Mean −0.001712
Std Dev 1.256
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

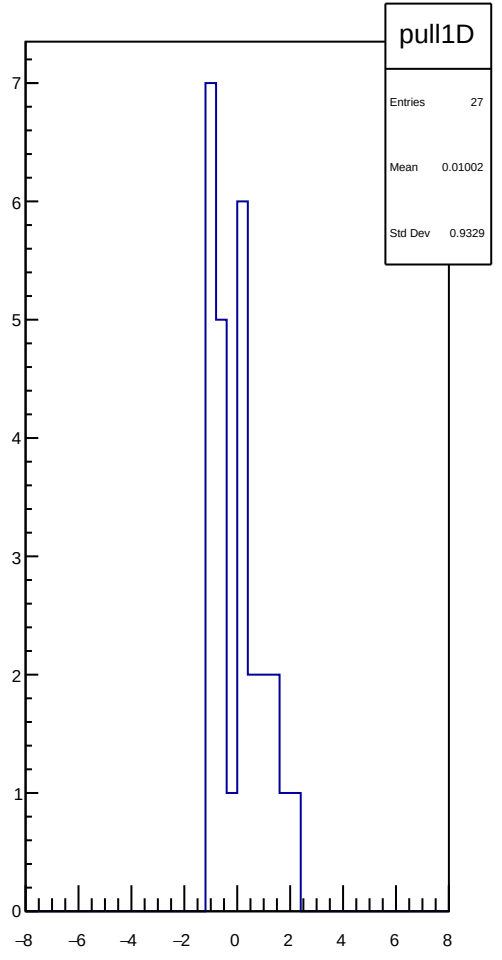

asym_left_avg_correction_rms vs run
χ² / ndf 268.2 / 26
p0 646 ± 0.8944
690
680
670
660
650
640
630
620
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

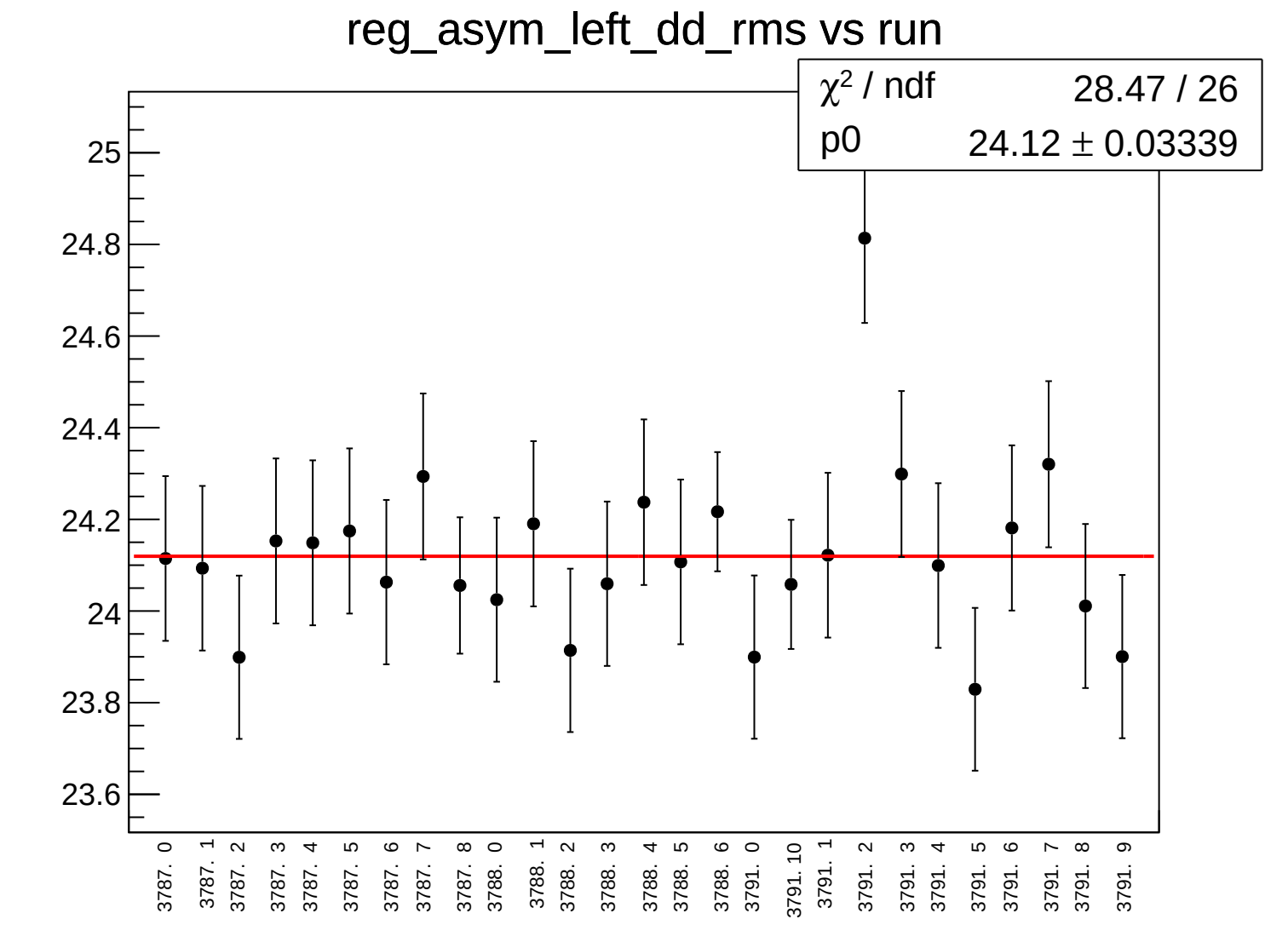

asym_left_avg_mean vs run
χ² / ndf 39.72 / 26
p0 2187 ± 1292
30000
20000
10000
0
−10000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −142
Std Dev 154.7
2
1
0
−1
−2

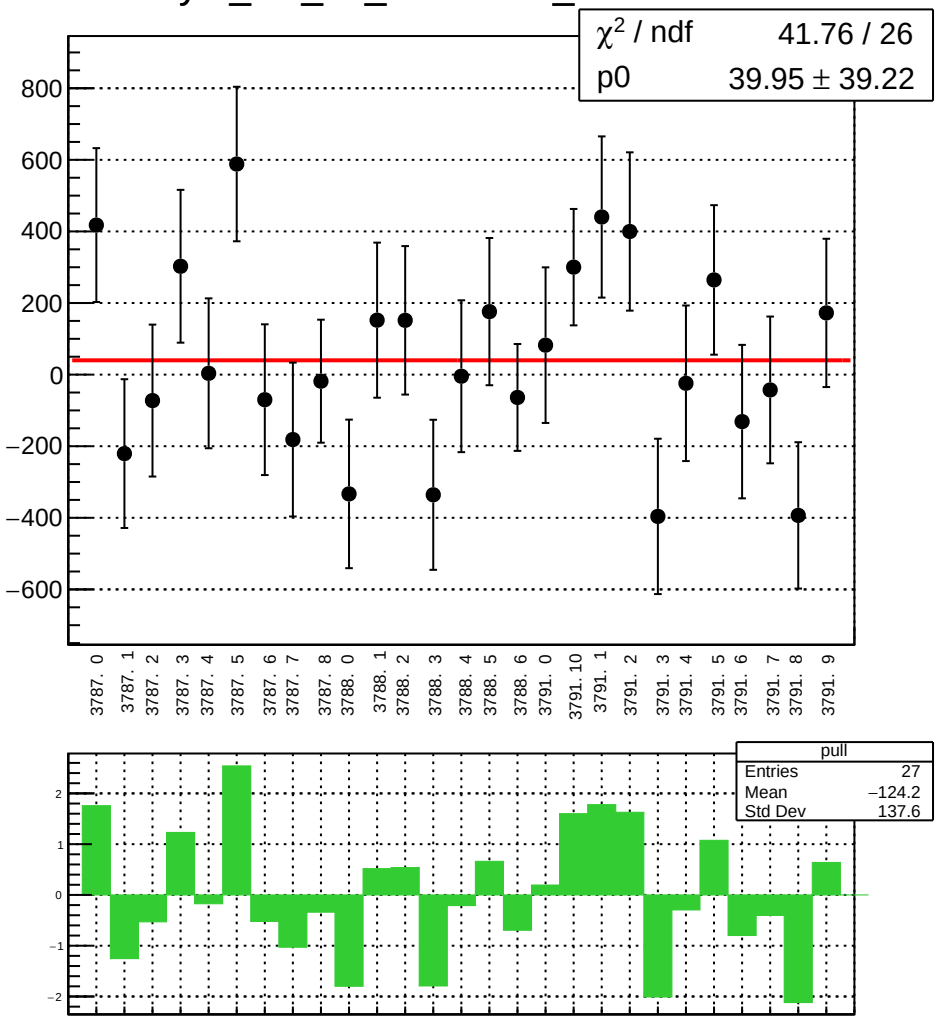

pull1D
Entries 27
Mean 0.005304
Std Dev 1.213
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

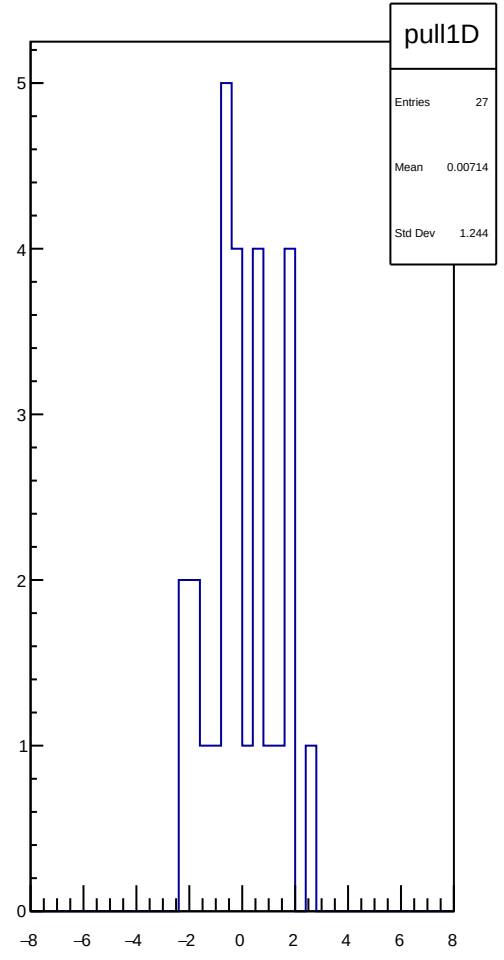

asym_left_avg_rms vs run
χ^2 / ndf 248.3 / 26
p0 660 ± 0.9137
700
690
680
670
660
650
640
630
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

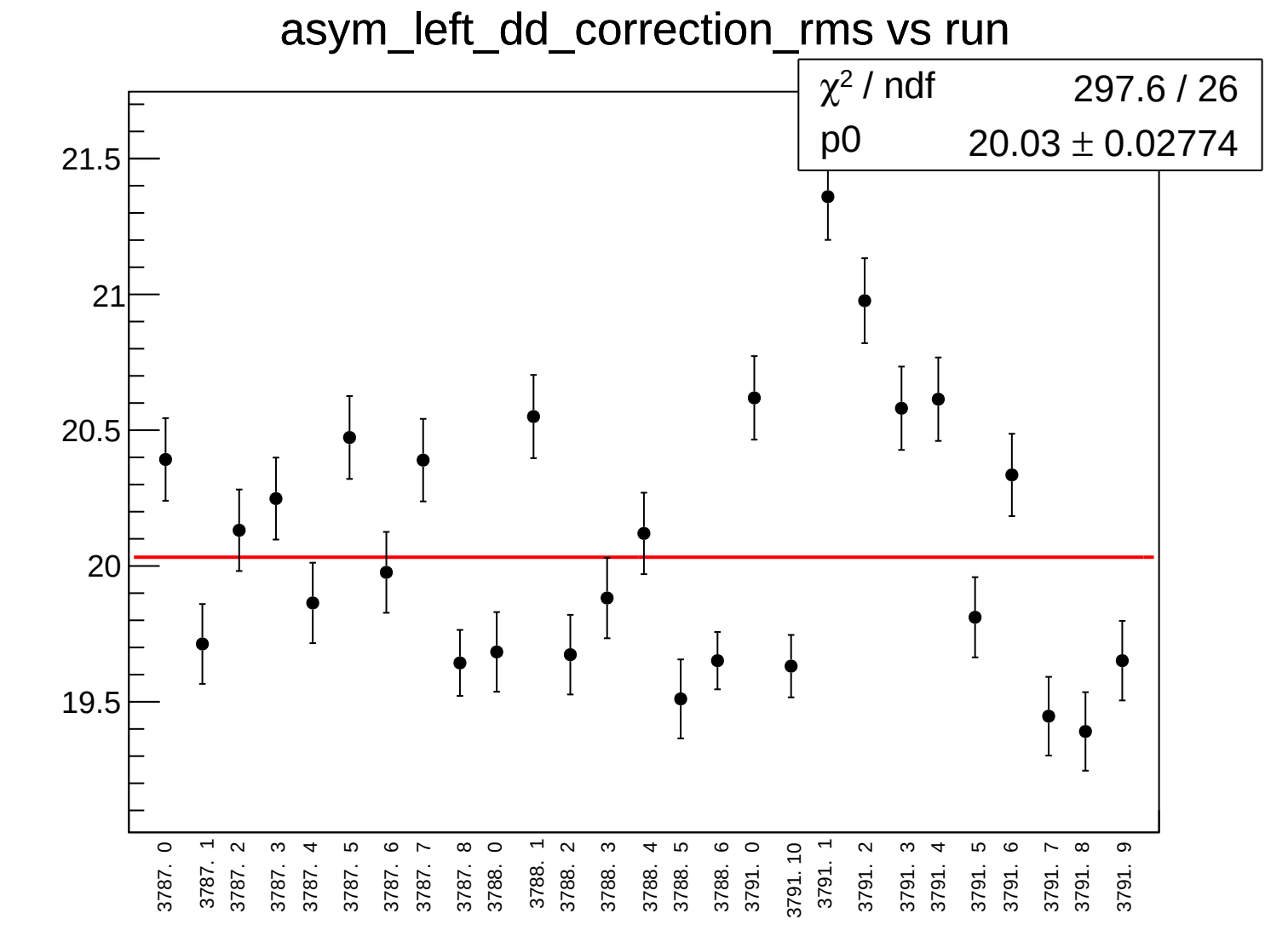

reg_asym_left_dd_mean vs run
χ² / ndf 23.5 / 26
p0 49.74 ± 47.21
1000
800
600
400
200
0
−200
−400
−600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −3.46
Std Dev 44.07
2
1.5
1
0.5
0
−0.5
−1

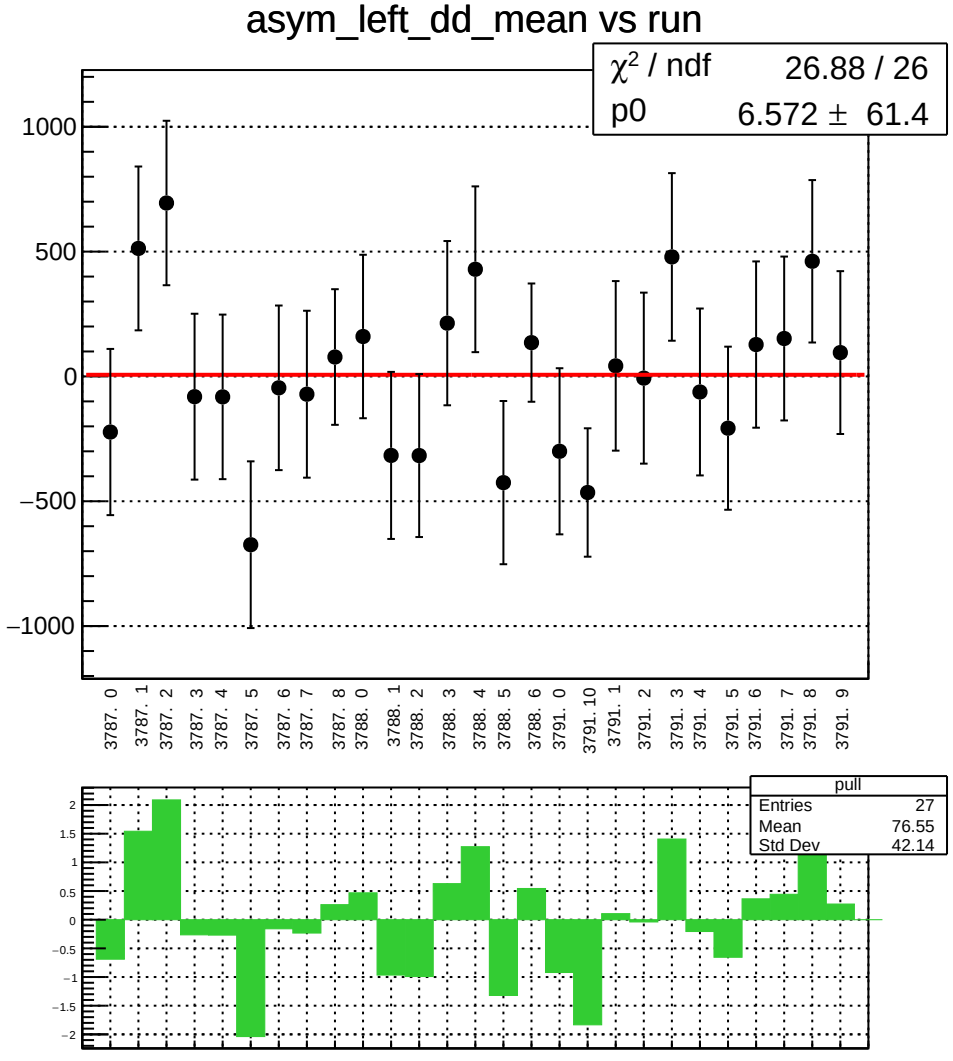

pull1D
Entries 27
Mean 0.01002
Std Dev 0.9329
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

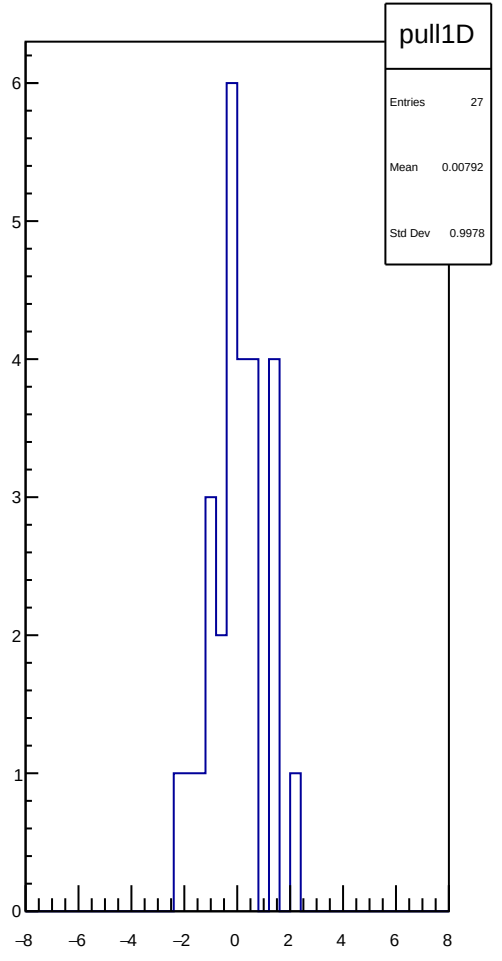

reg_asym_left_dd_rms vs run
χ² / ndf 28.47 / 26
p0 24.12 ± 0.03339
25
24.8
24.6
24.4
24.2
24
23.8
23.6
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

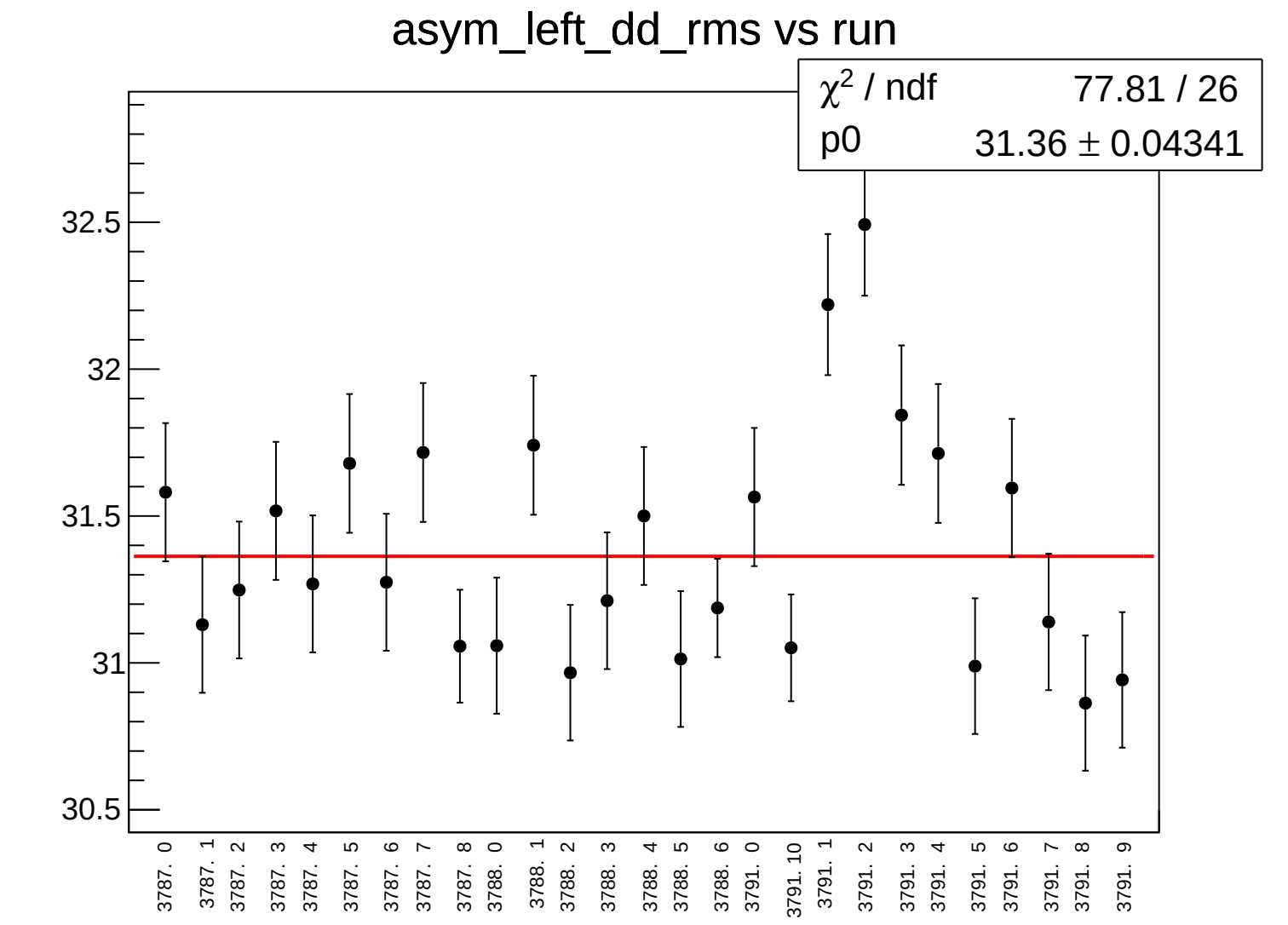

asym_left_dd_correction_mean vs run
χ² / ndf 41.76 / 26
p0 39.95 ± 39.22
800
600
400
200
0
−200
−400
−600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −124.2
Std Dev 137.6
2
1
0
−1
−2

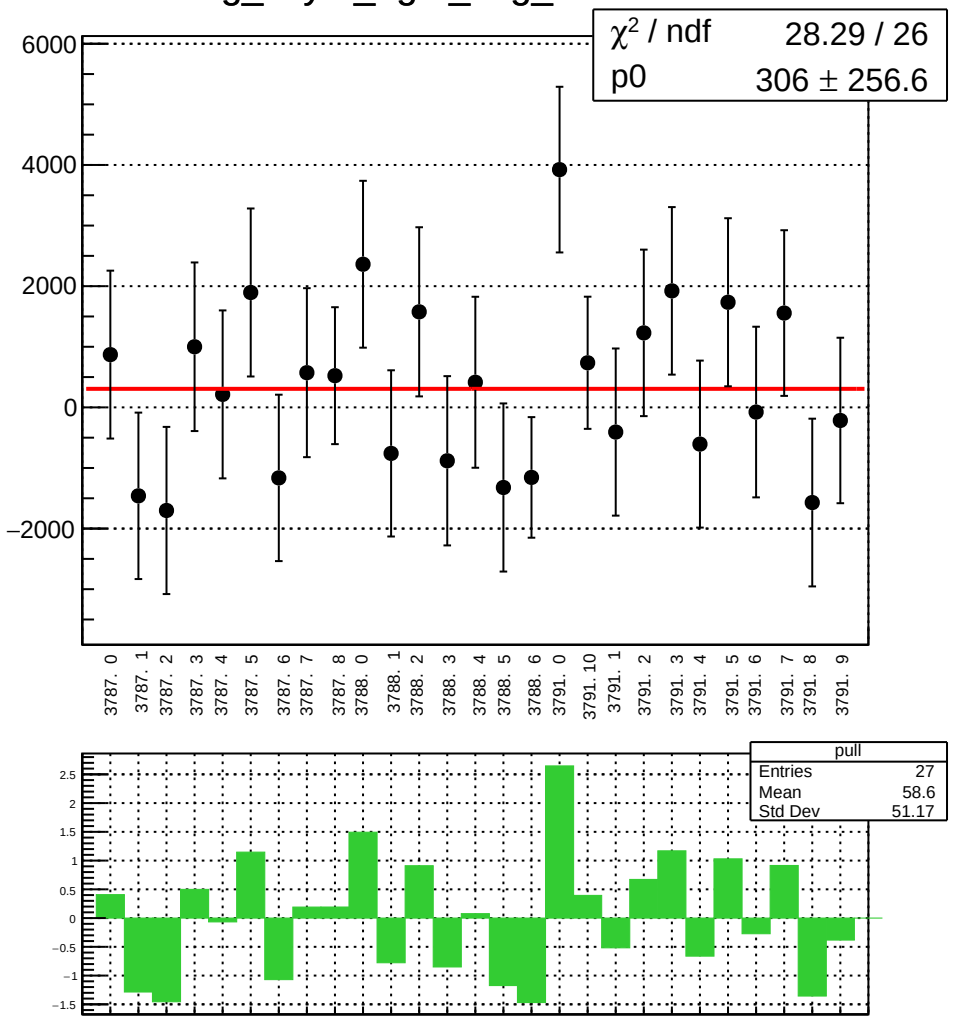

pull1D
Entries 27
Mean 0.00714
Std Dev 1.244
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

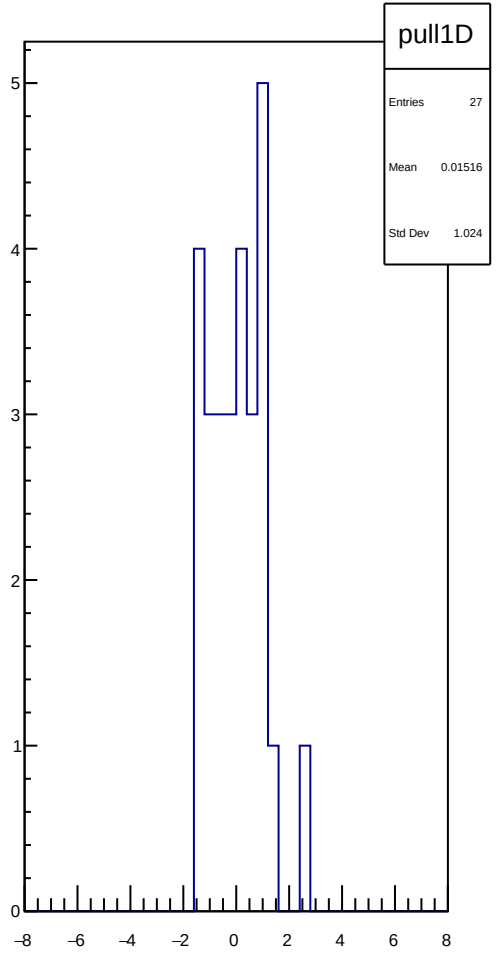

asym_left_dd_correction_rms vs run
χ² / ndf 297.6 / 26
p0 20.03 ± 0.02774
21.5
21
20.5
20
19.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

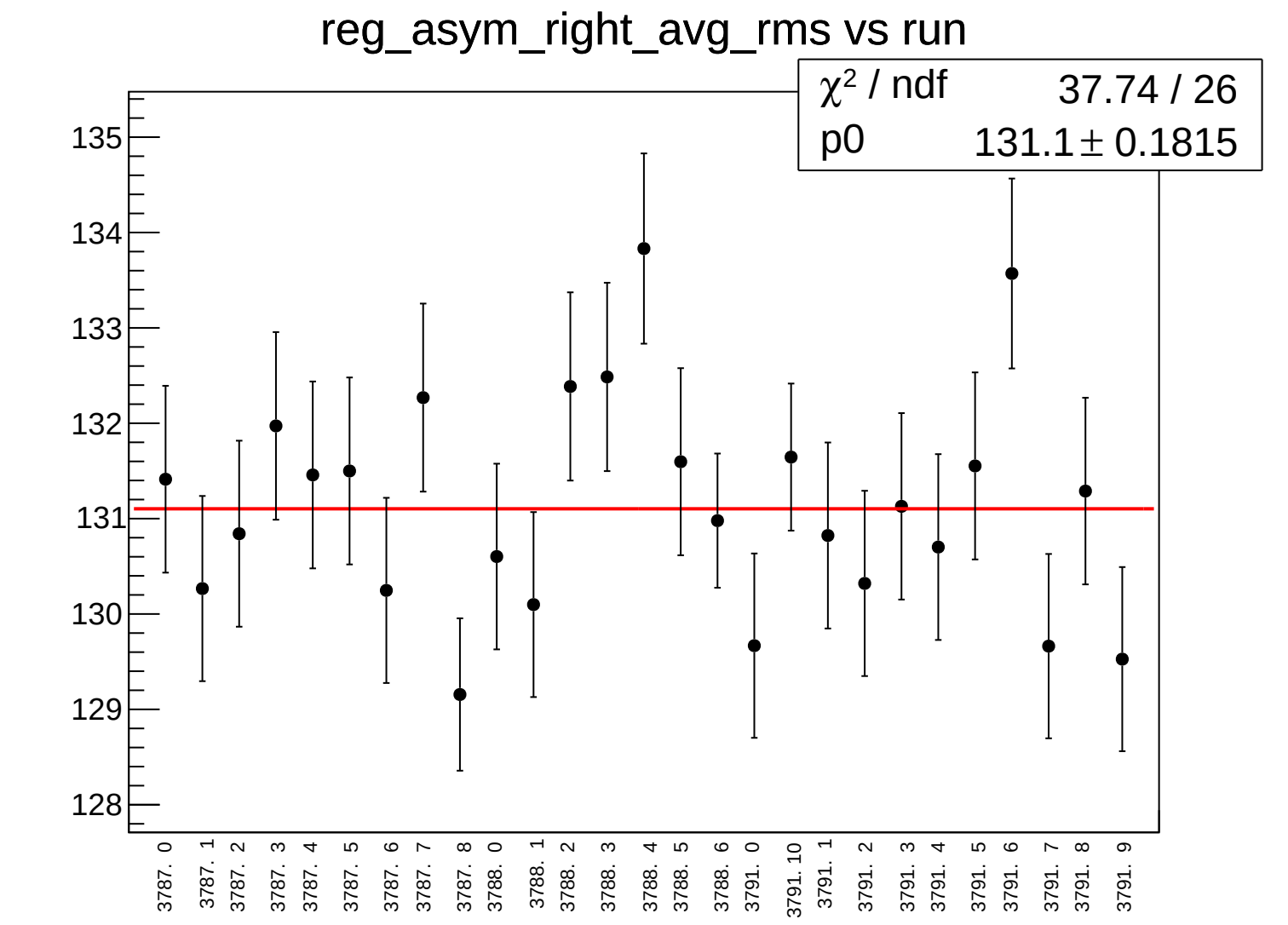

asym_left_dd_mean vs run
χ² / ndf 26.88 / 26
p0 6.572 ± 61.4
1000
500
0
−500
−1000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 76.55
Std Dev 42.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

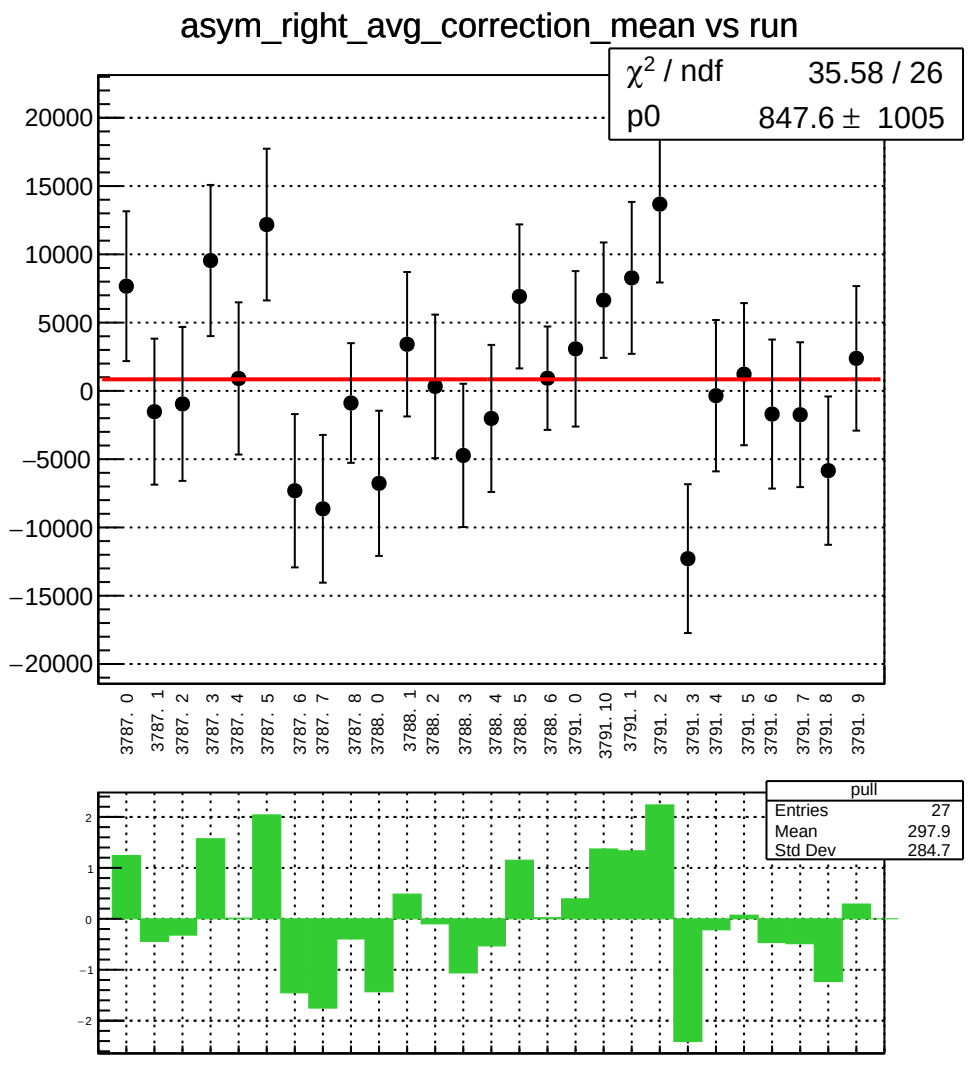

pull1D
Entries 27
Mean 0.00792
Std Dev 0.9978
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

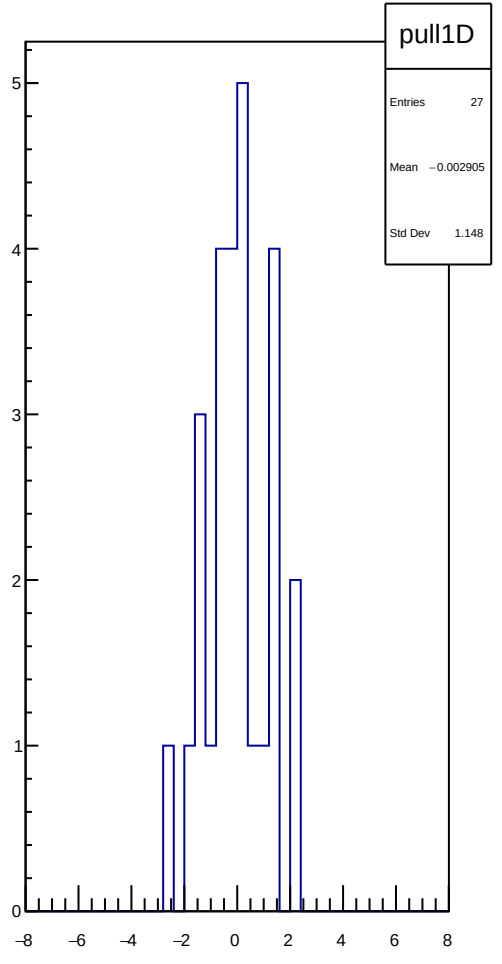

asym_left_dd_rms vs run
χ² / ndf 77.81 / 26
p0 31.36 ± 0.04341
32.5
32
31.5
31
30.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

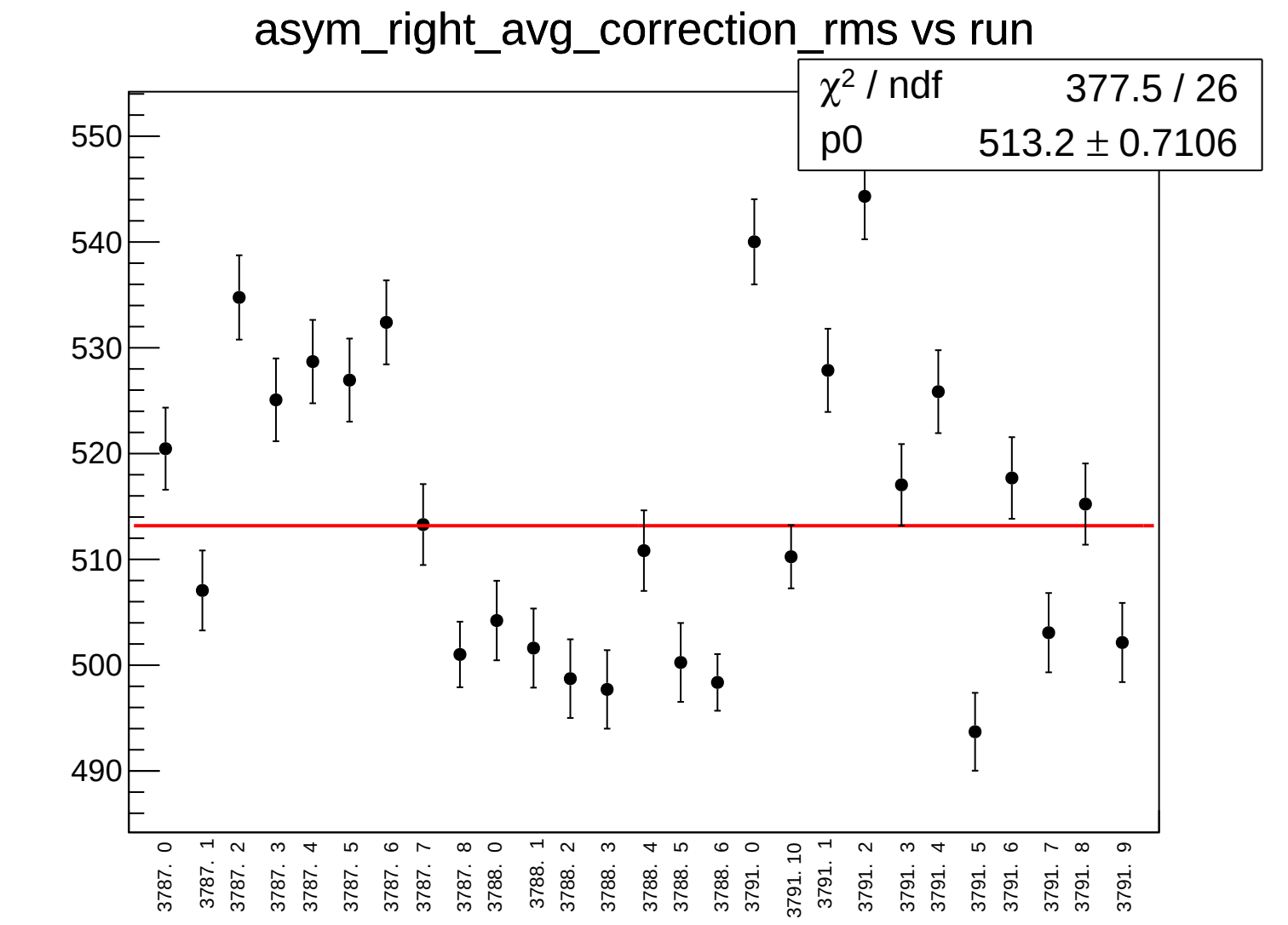

reg_asym_right_avg_mean vs run
χ² / ndf 28.29 / 26
p0 306 ± 256.6
6000
4000
2000
0
−2000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 58.6
Std Dev 51.17
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

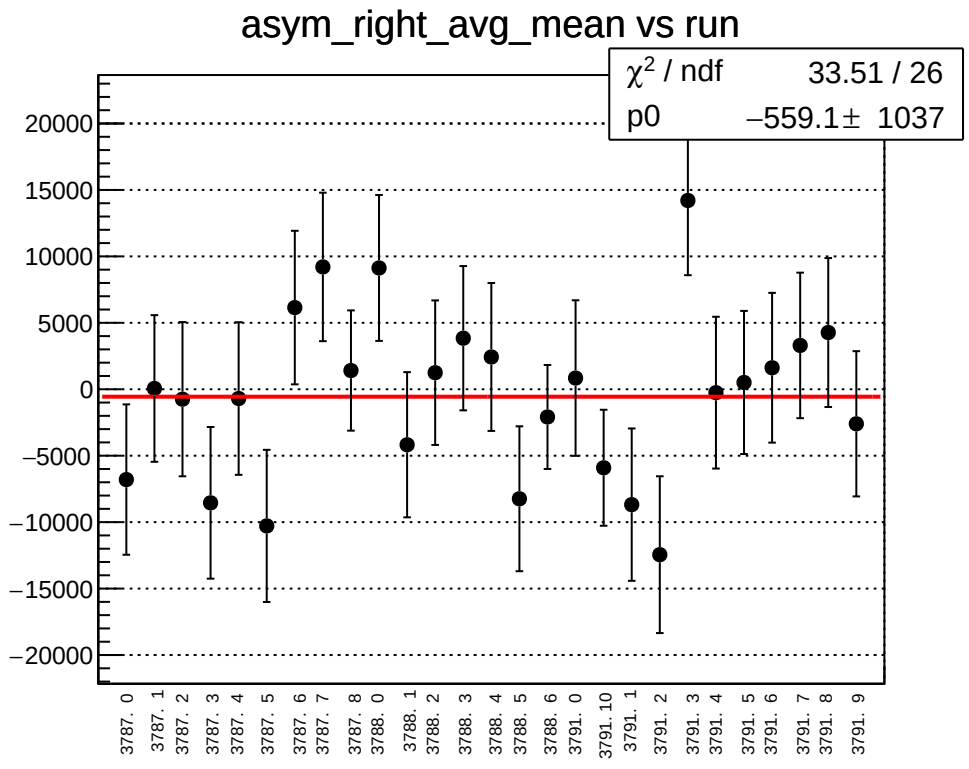

pull1D
Entries 27
Mean 0.01516
Std Dev 1.024
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

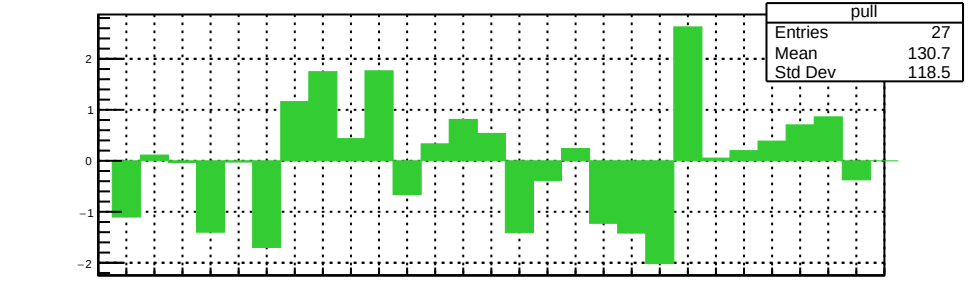

reg_asym_right_avg_rms vs run
χ² / ndf 37.74 / 26
p0 131.1 ± 0.1815
135
134
133
132
131
130
129
128
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

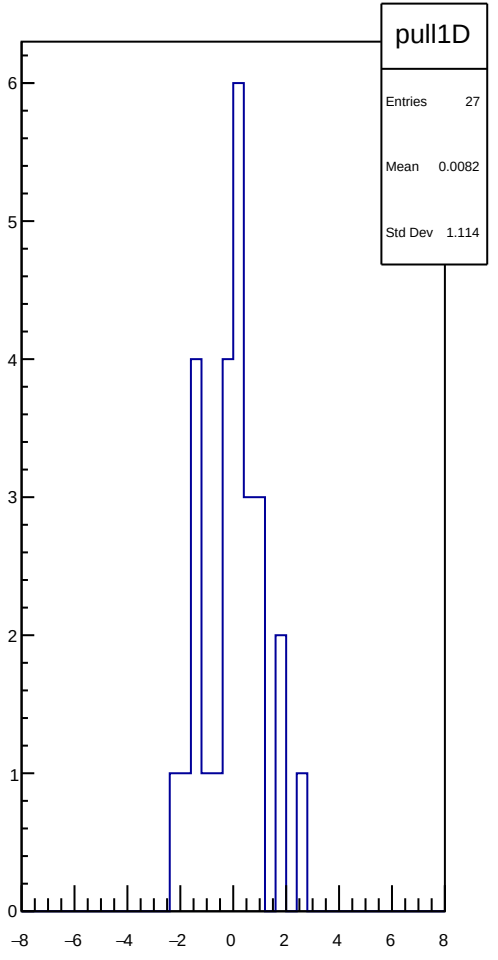

asym_right_avg_correction_mean vs run
χ² / ndf 35.58 / 26
p0 847.6 ± 1005
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 297.9
Std Dev 284.7
2
1
0
−1
−2

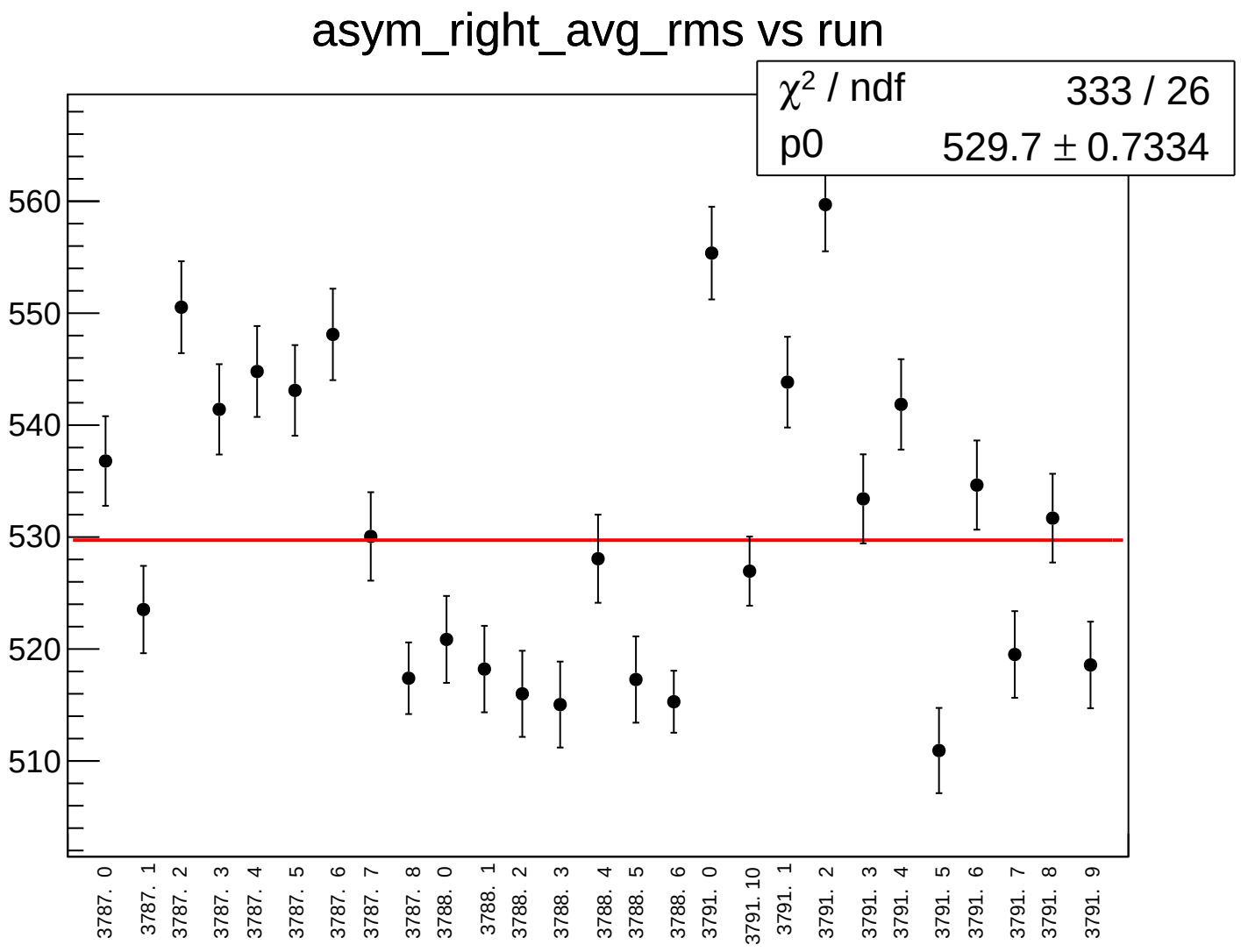

pull1D
Entries 27
Mean −0.002905
Std Dev 1.148
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

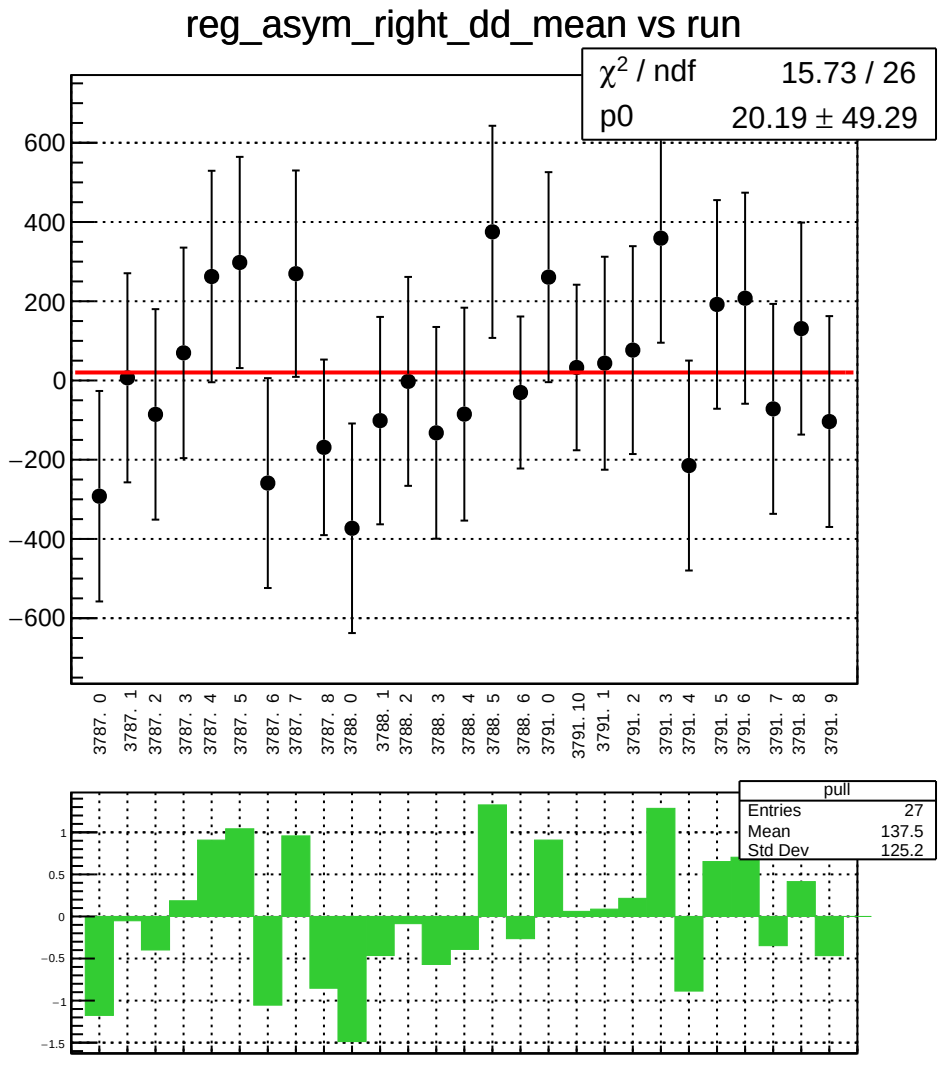

asym_right_avg_correction_rms vs run
χ² / ndf 377.5 / 26
p0 513.2 ± 0.7106
550
540
530
520
510
500
490
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

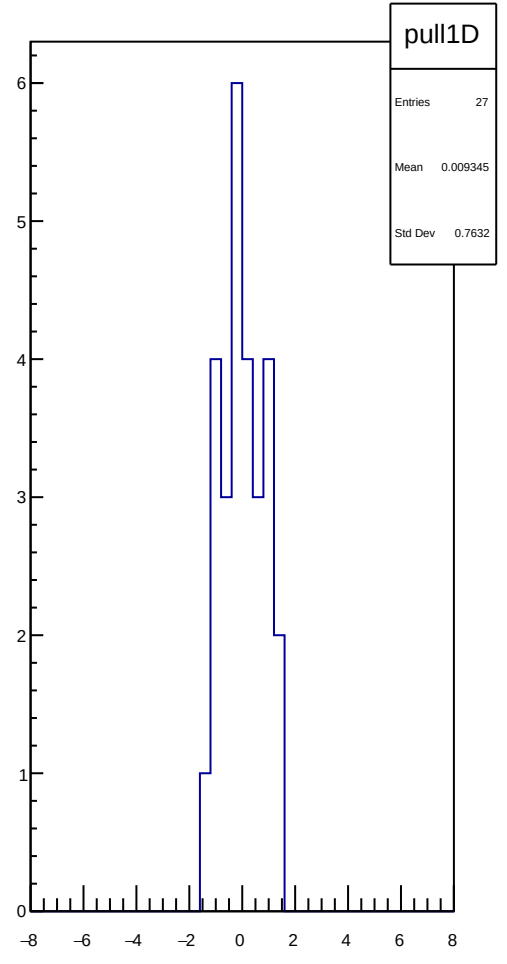

asym_right_avg_mean vs run
χ² / ndf 33.51 / 26
p0 −559.1± 1037
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

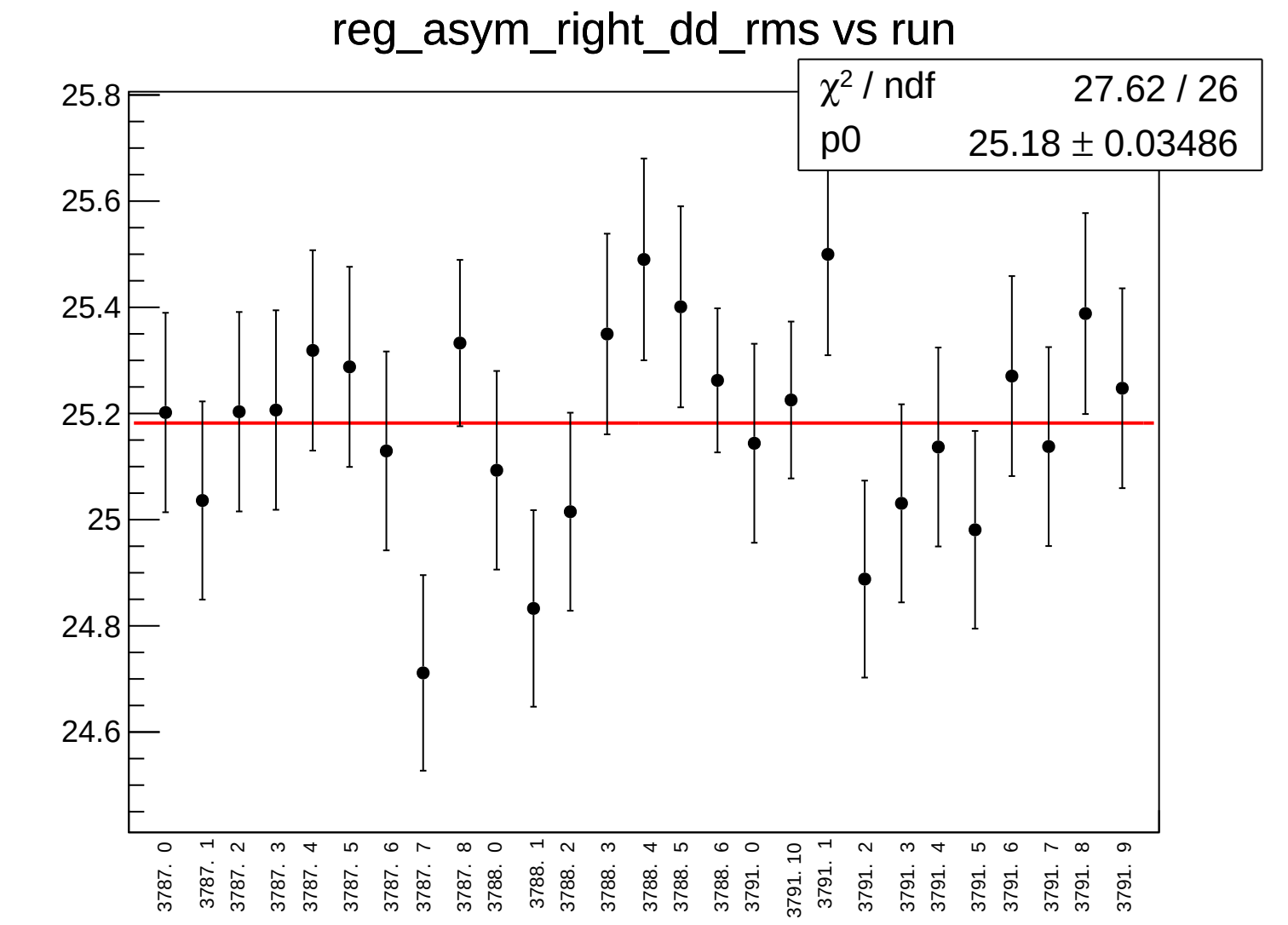

pull
Entries 27
Mean 130.7
Std Dev 118.5
2
1
0
−1
−2

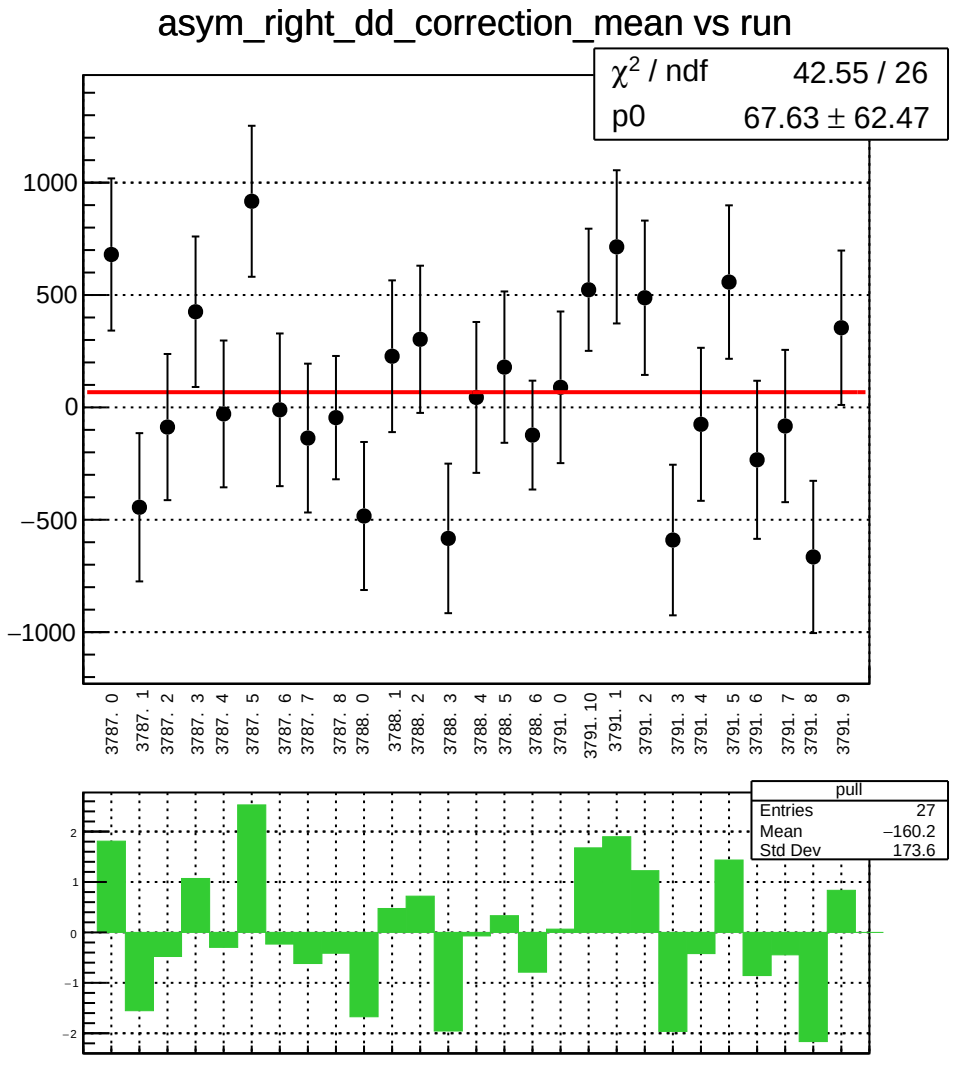

pull1D
Entries 27
Mean 0.0082
Std Dev 1.114
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

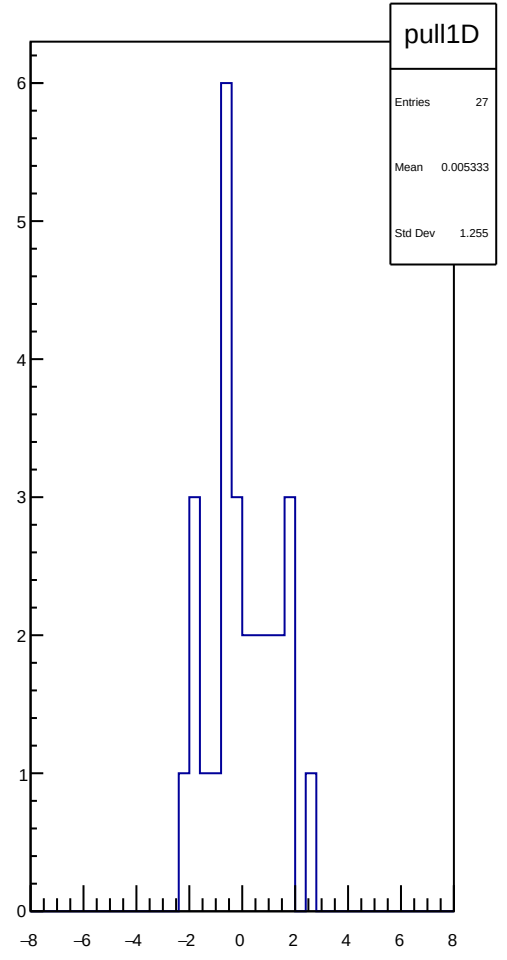

asym_right_avg_rms vs run
χ² / ndf 333 / 26
p0 529.7 ± 0.7334
560
550
540
530
520
510
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

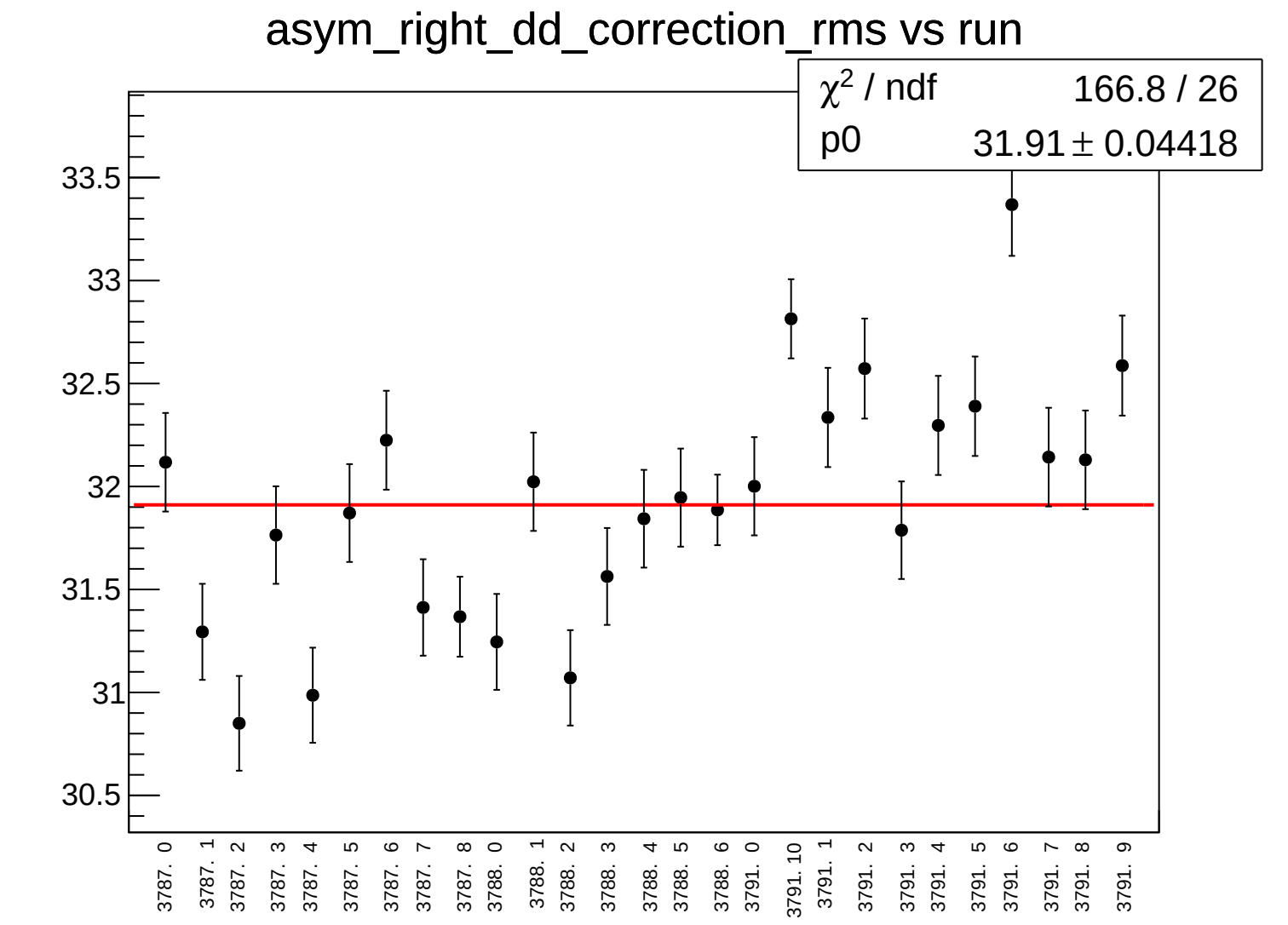

reg_asym_right_dd_mean vs run
χ² / ndf 15.73 / 26
p0 20.19 ± 49.29
600
400
200
0
−200
−400
−600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 137.5
Std Dev 125.2
1
0.5
0
−0.5
−1
−1.5

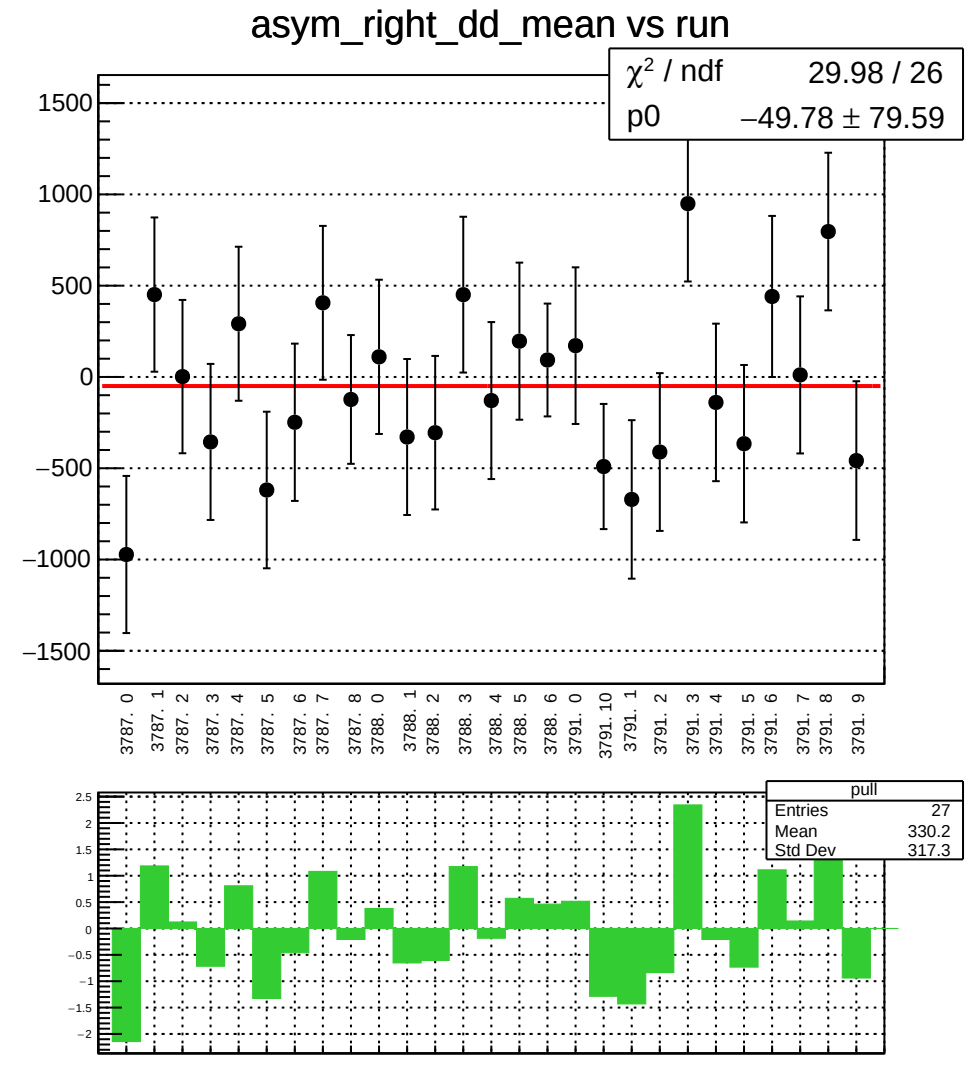

pull1D
Entries 27
Mean 0.009345
Std Dev 0.7632
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

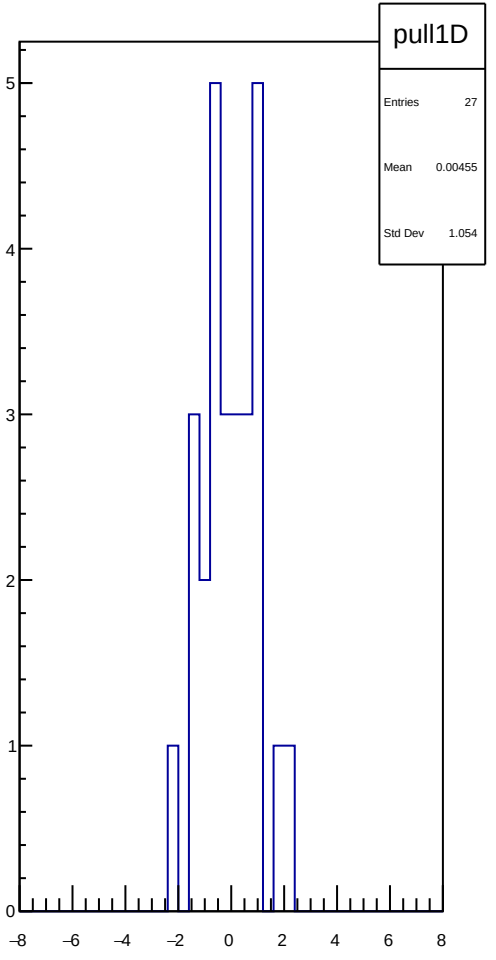

reg_asym_right_dd_rms vs run
χ² / ndf 27.62 / 26
p0 25.18 ± 0.03486
25.8
25.6
25.4
25.2
25
24.8
24.6
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

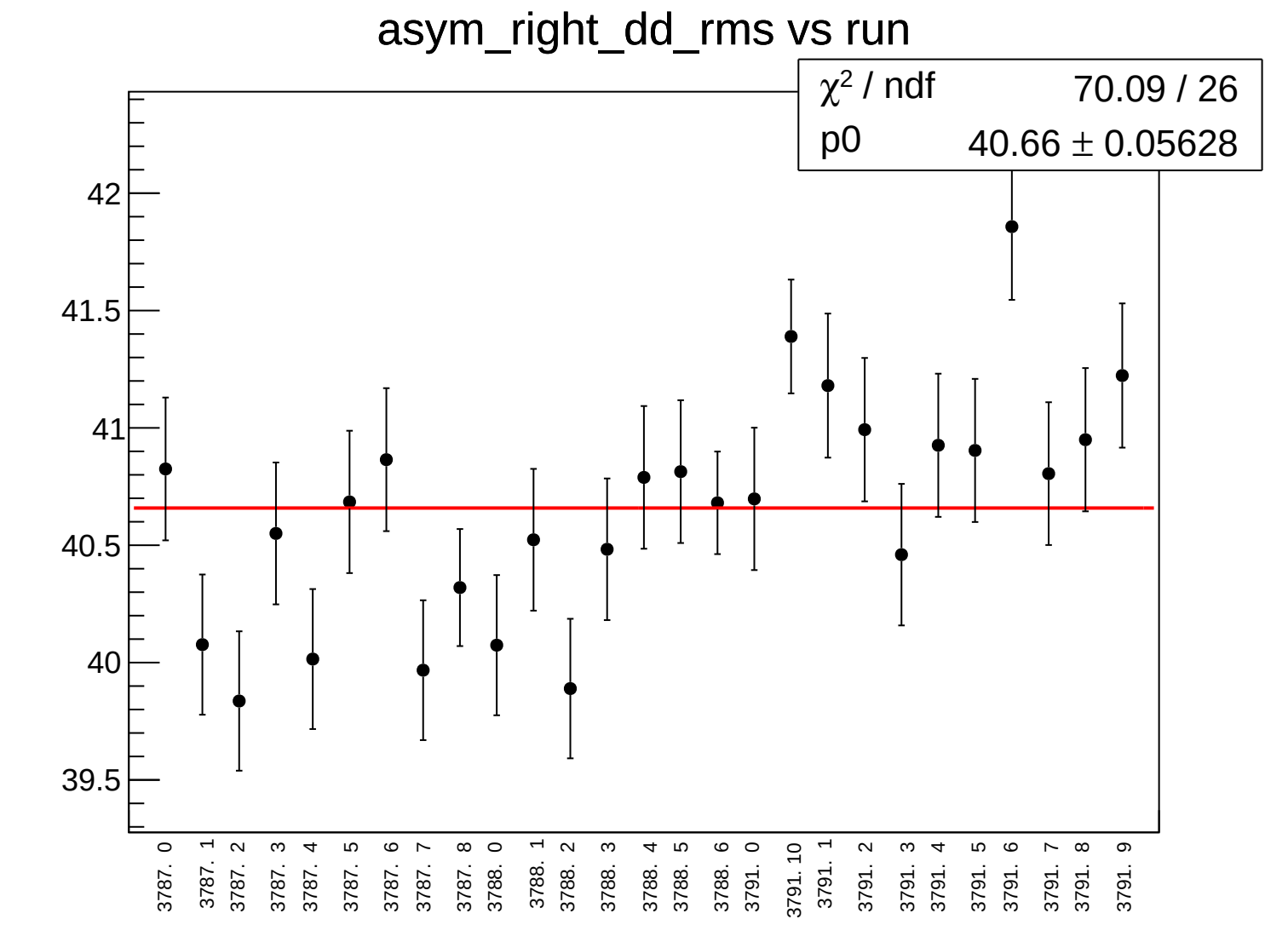

asym_right_dd_correction_mean vs run
χ² / ndf 42.55 / 26
p0 67.63 ± 62.47
1000
500
0
−500
−1000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −160.2
Std Dev 173.6
2
1
0
−1
−2

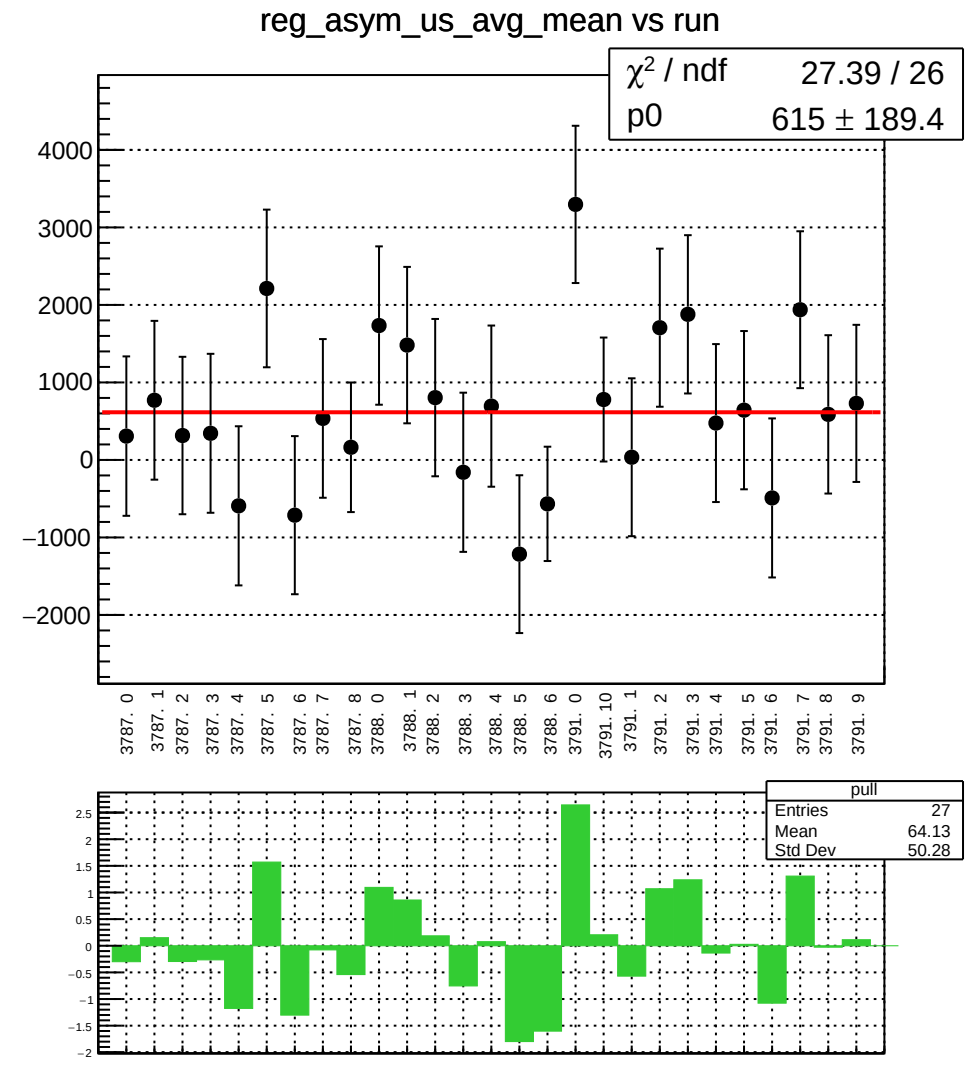

pull1D
Entries 27
Mean 0.005333
Std Dev 1.255
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

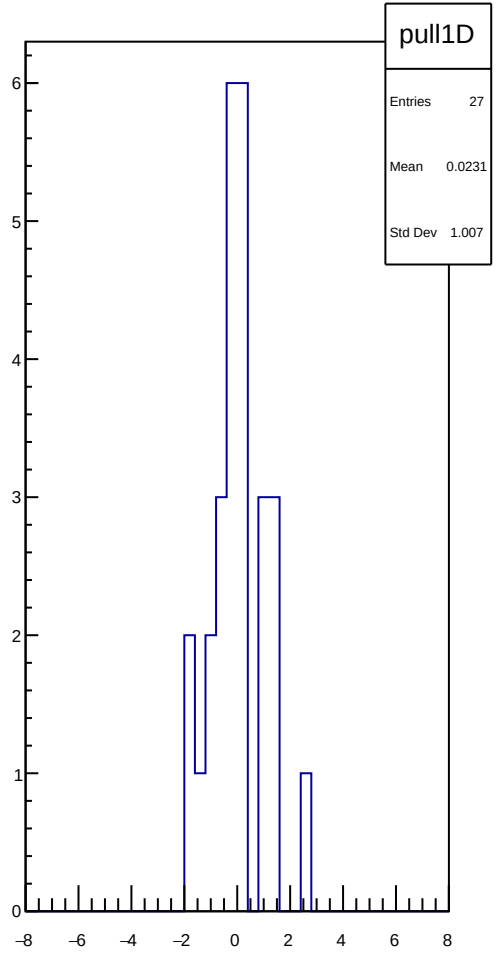

asym_right_dd_correction_rms vs run
χ² / ndf 166.8 / 26
p0 31.91 ± 0.04418
33.5
33
32.5
32
31.5
31
30.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

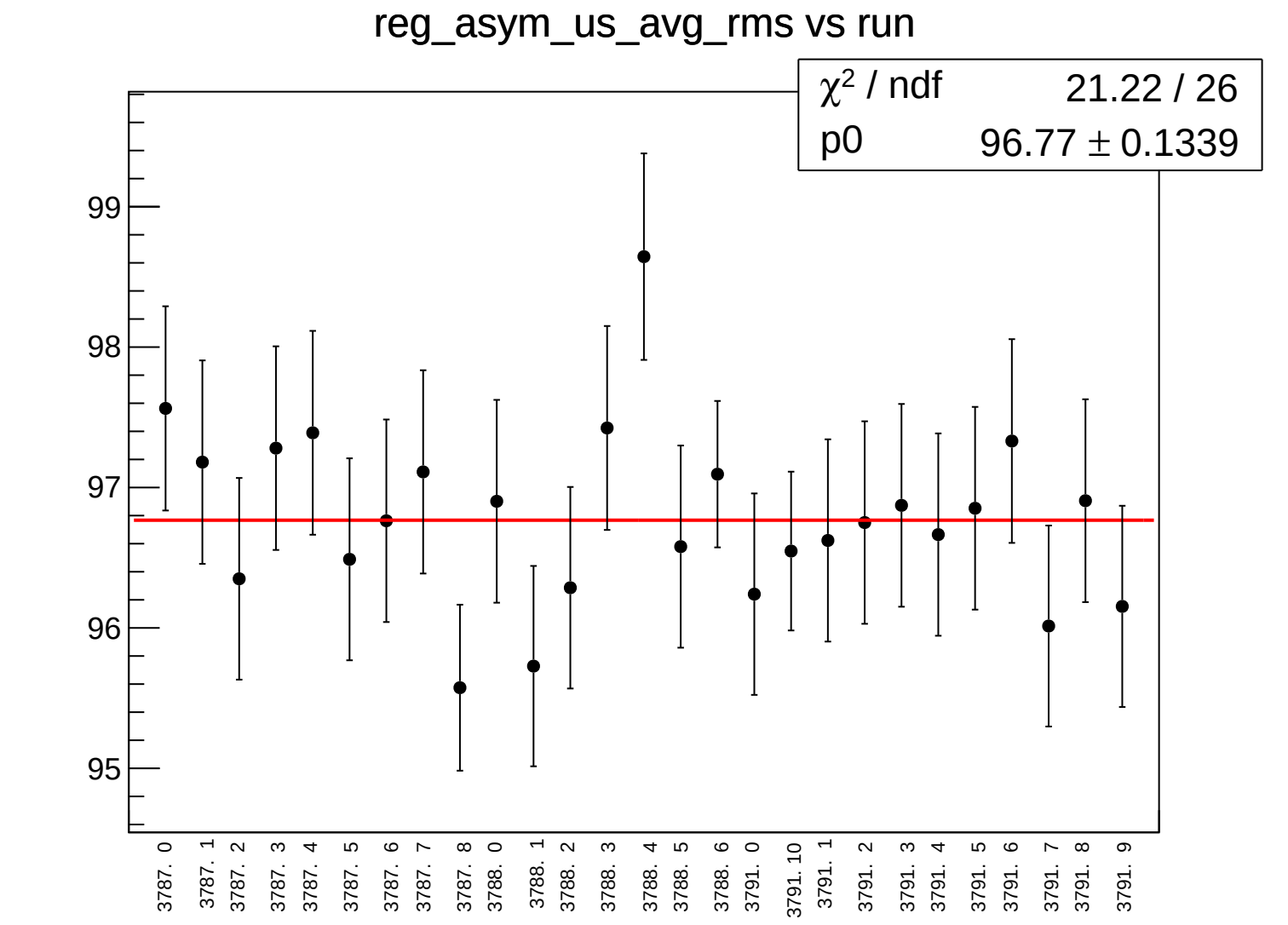

asym_right_dd_mean vs run
χ² / ndf 29.98 / 26
p0 −49.78 ± 79.59
1500
1000
500
0
−500
−1000
−1500
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 330.2
Std Dev 317.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

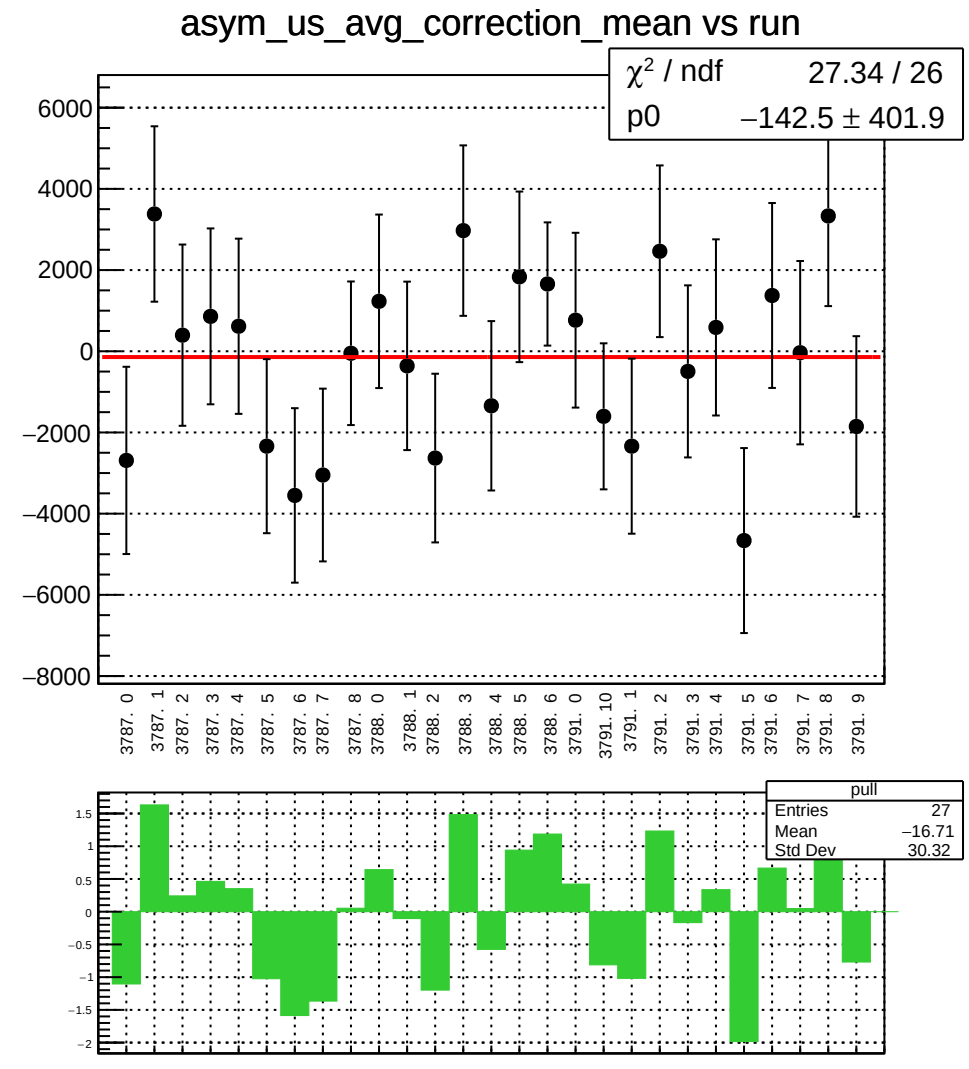

pull1D
Entries 27
Mean 0.00455
Std Dev 1.054
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

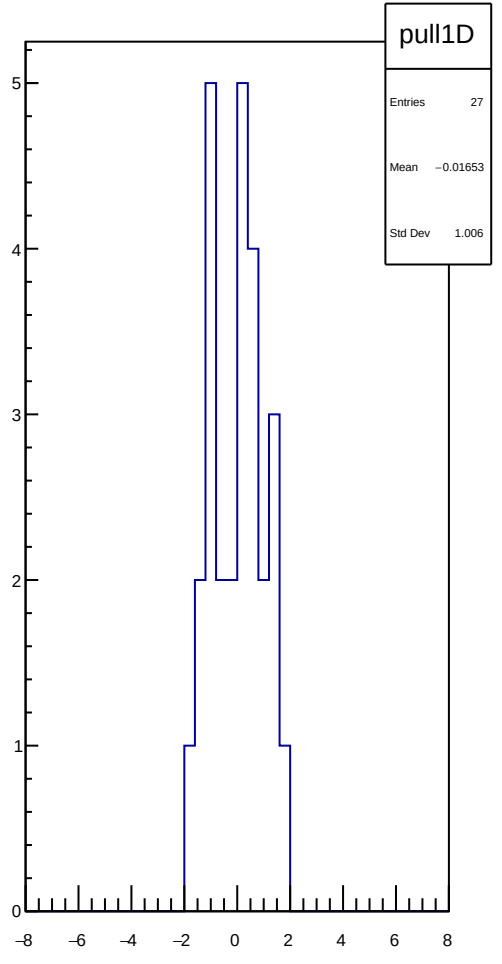

asym_right_dd_rms vs run
χ² / ndf 70.09 / 26
p0 40.66 ± 0.05628
42
41.5
41
40.5
40
39.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

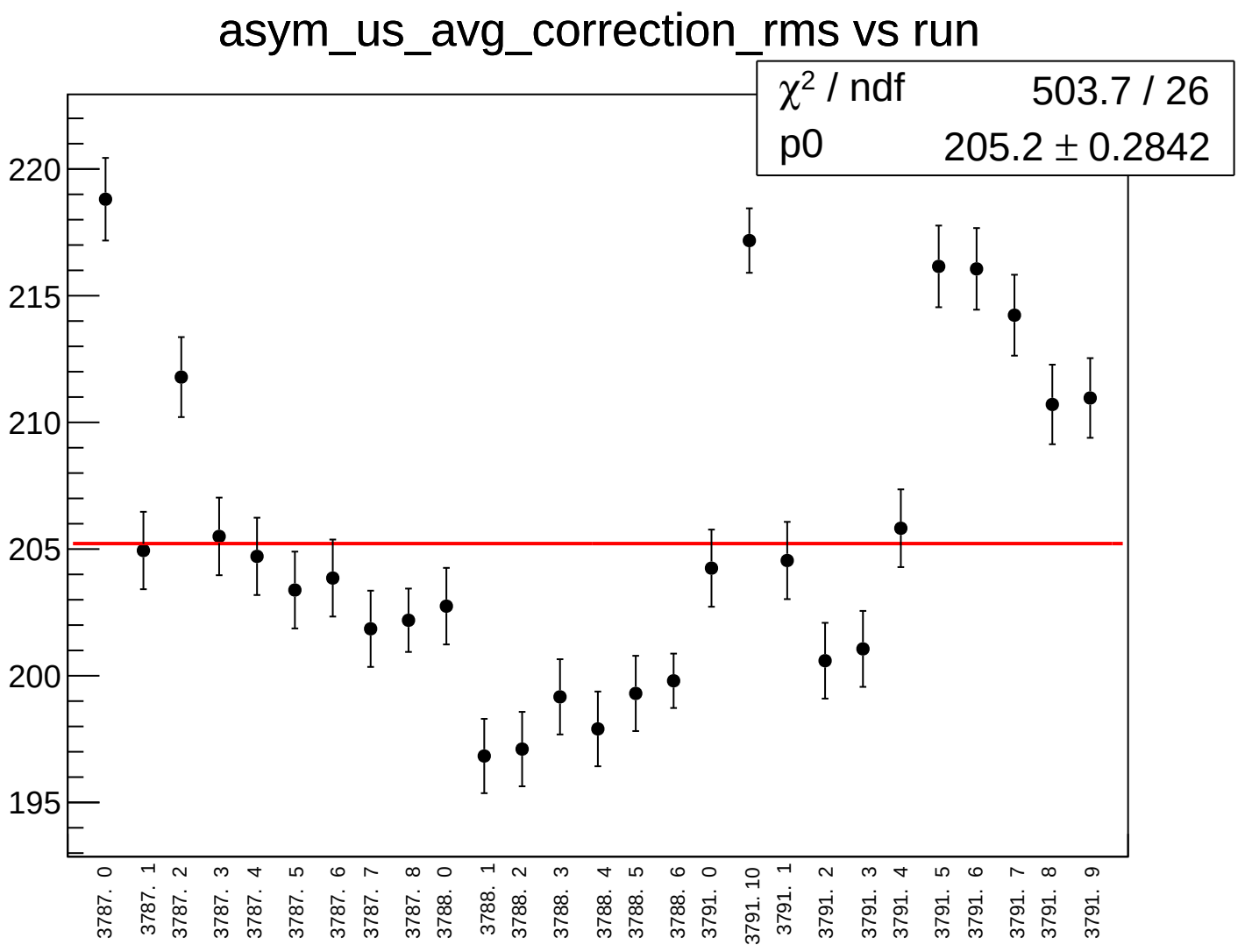

reg_asym_us_avg_mean vs run
χ² / ndf 27.39 / 26
p0 615 ± 189.4
4000
3000
2000
1000
0
−1000
−2000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 64.13
Std Dev 50.28
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

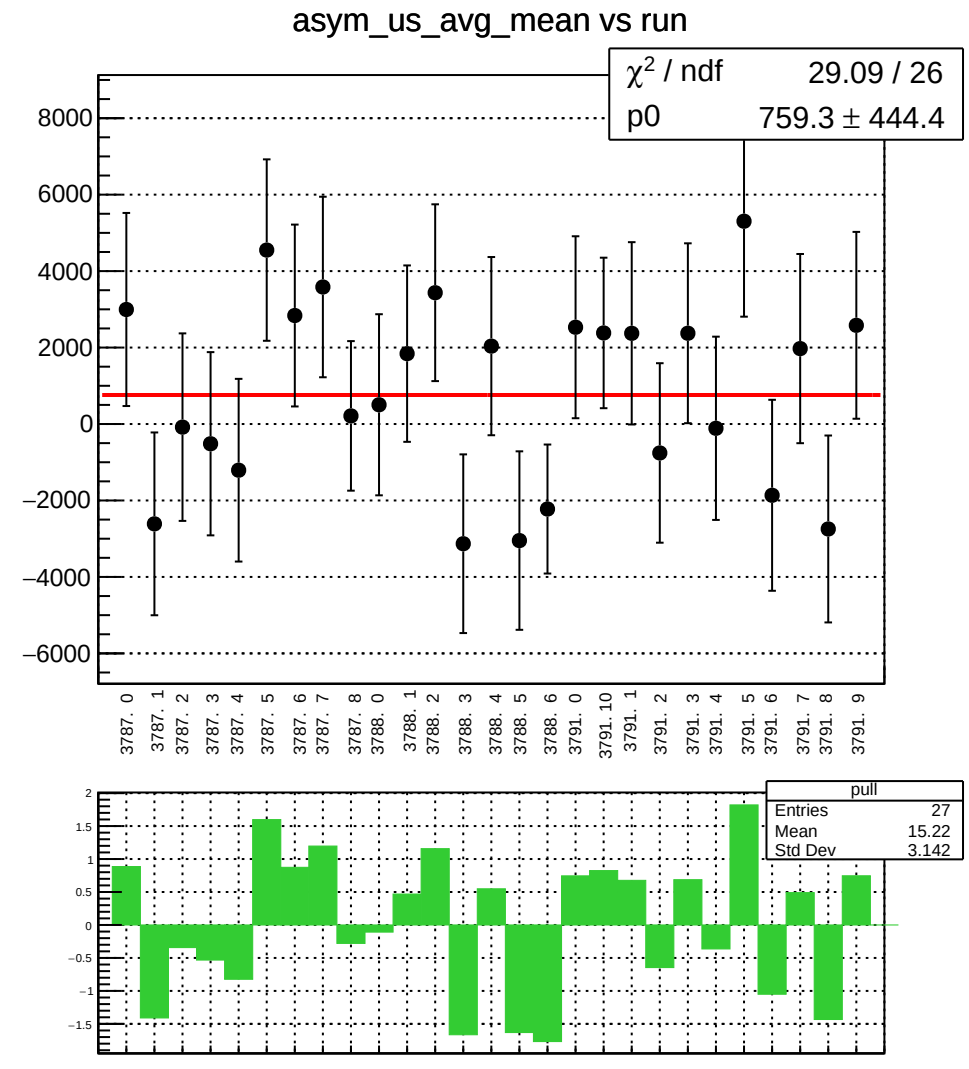

pull1D
Entries 27
Mean 0.0231
Std Dev 1.007
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

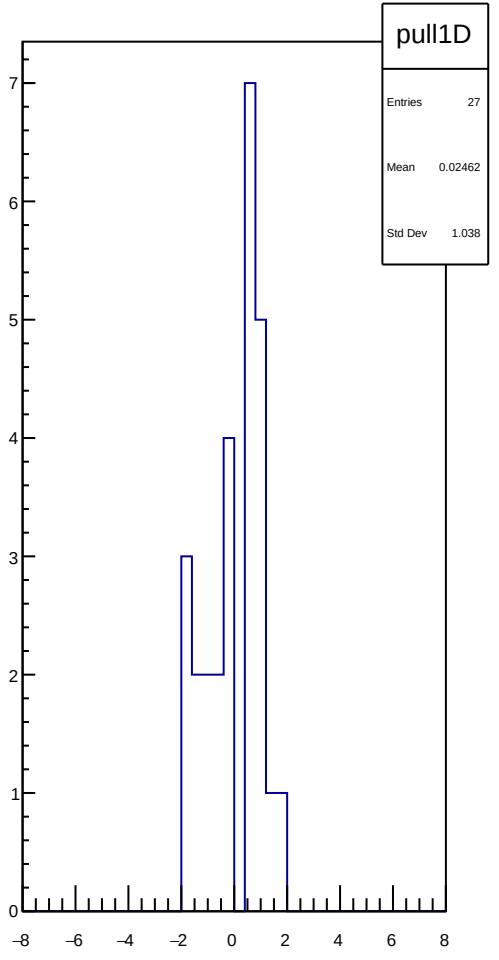

reg_asym_us_avg_rms vs run
χ² / ndf 21.22 / 26
p0 96.77 ± 0.1339
99
98
97
96
95
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

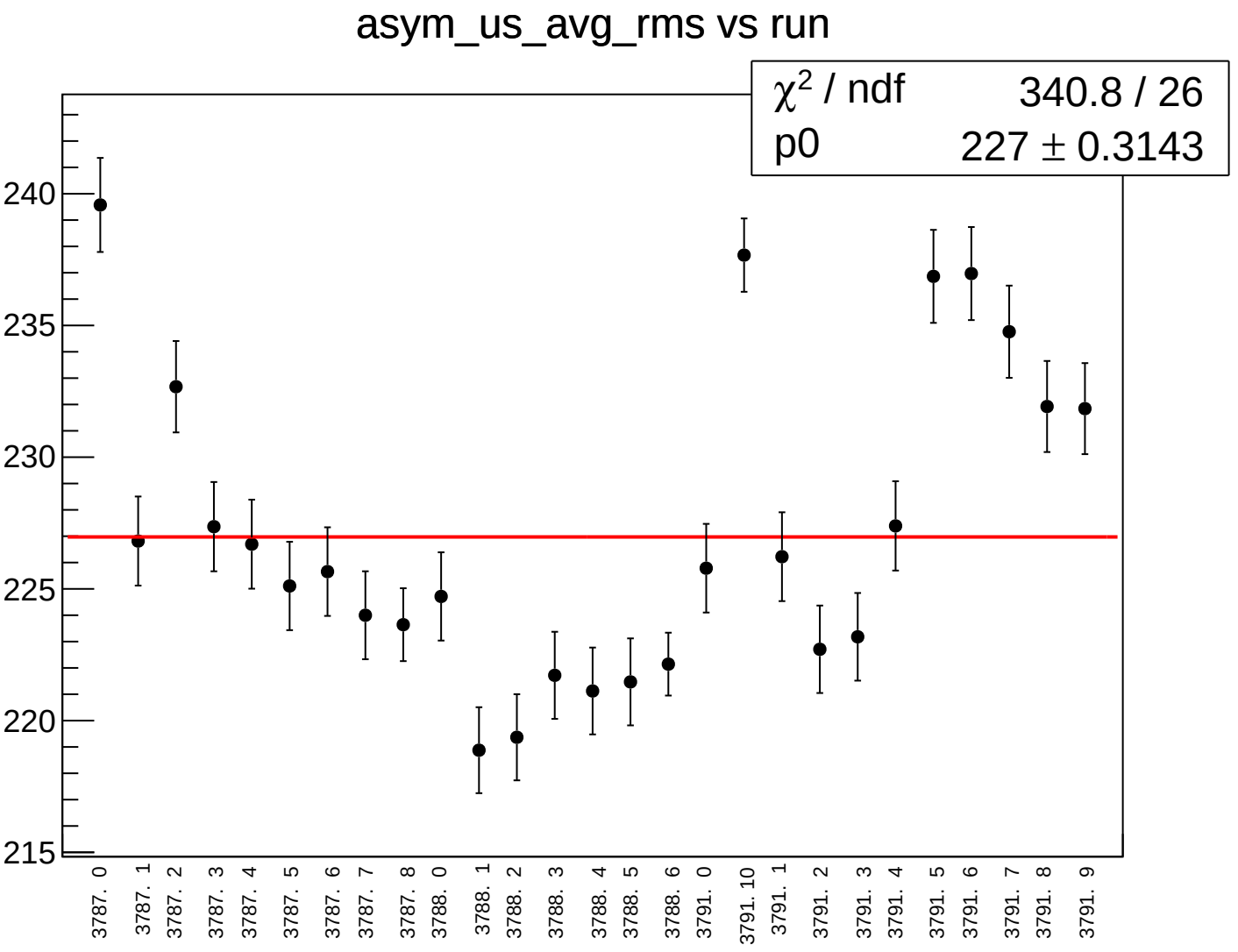

asym_us_avg_correction_mean vs run
χ² / ndf 27.34 / 26
p0 −142.5 ± 401.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −16.71
Std Dev 30.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2

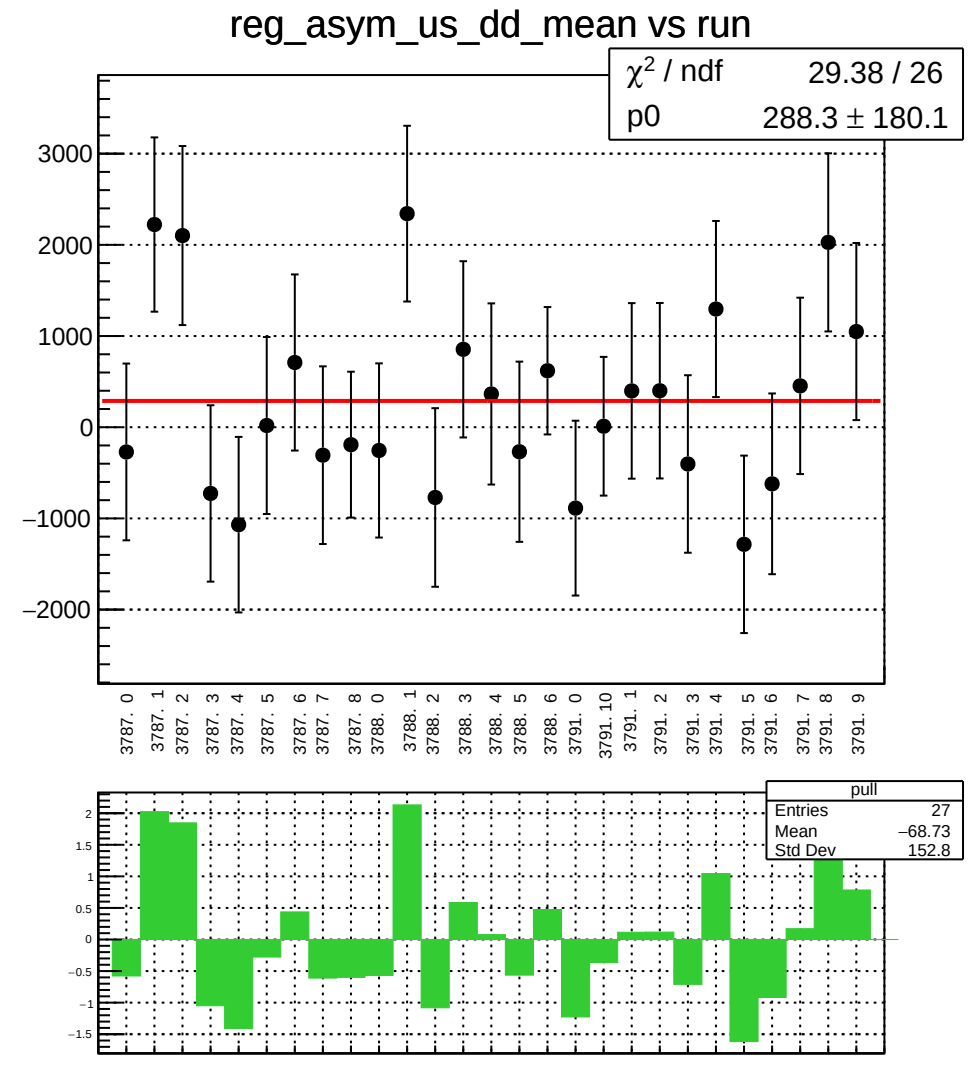

pull1D
Entries 27
Mean −0.01653
Std Dev 1.006
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

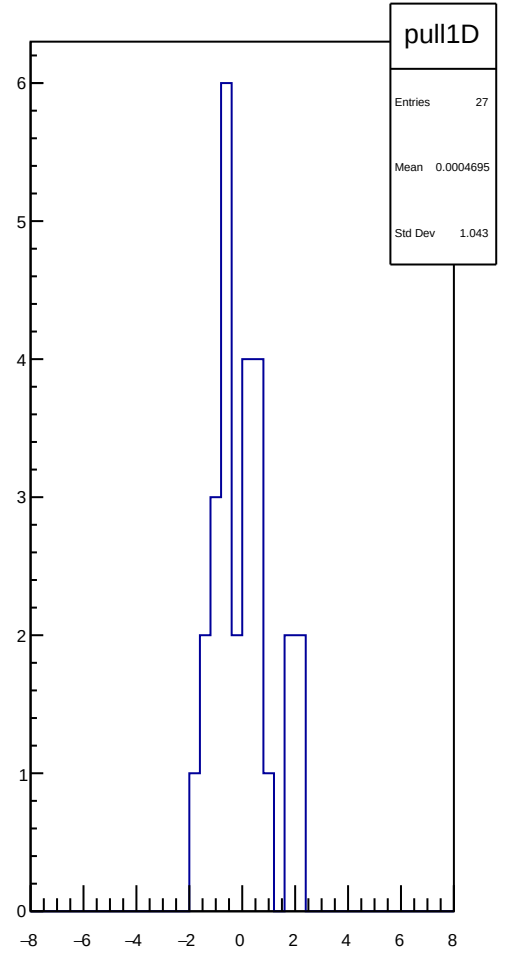

asym_us_avg_correction_rms vs run
χ² / ndf 503.7 / 26
p0 205.2 ± 0.2842
220
215
210
205
200
195
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

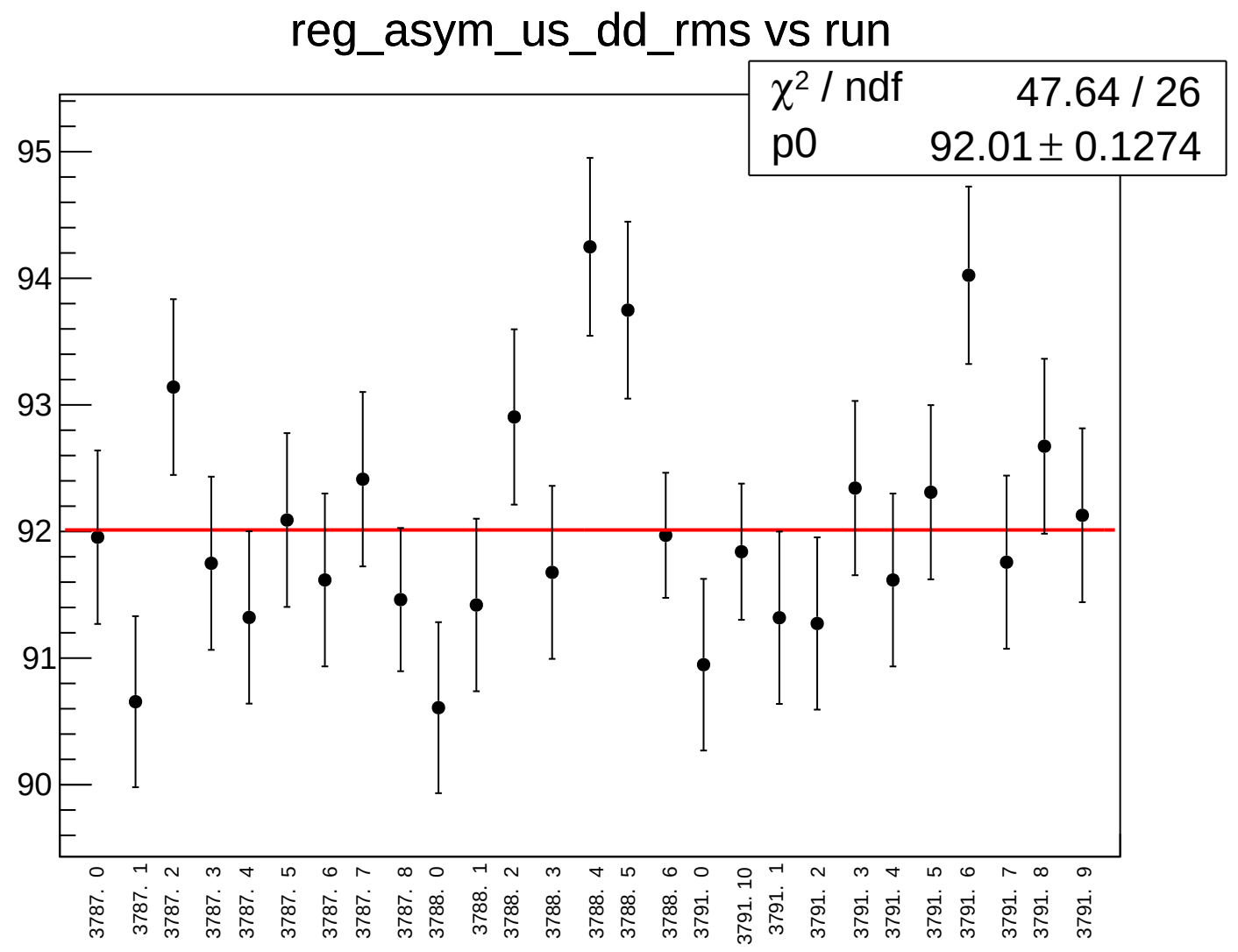

asym_us_avg_mean vs run
χ² / ndf 29.09 / 26
p0 759.3 ± 444.4
8000
6000
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 15.22
Std Dev 3.142
2
1.5
1
0.5
0
−0.5
−1
−1.5

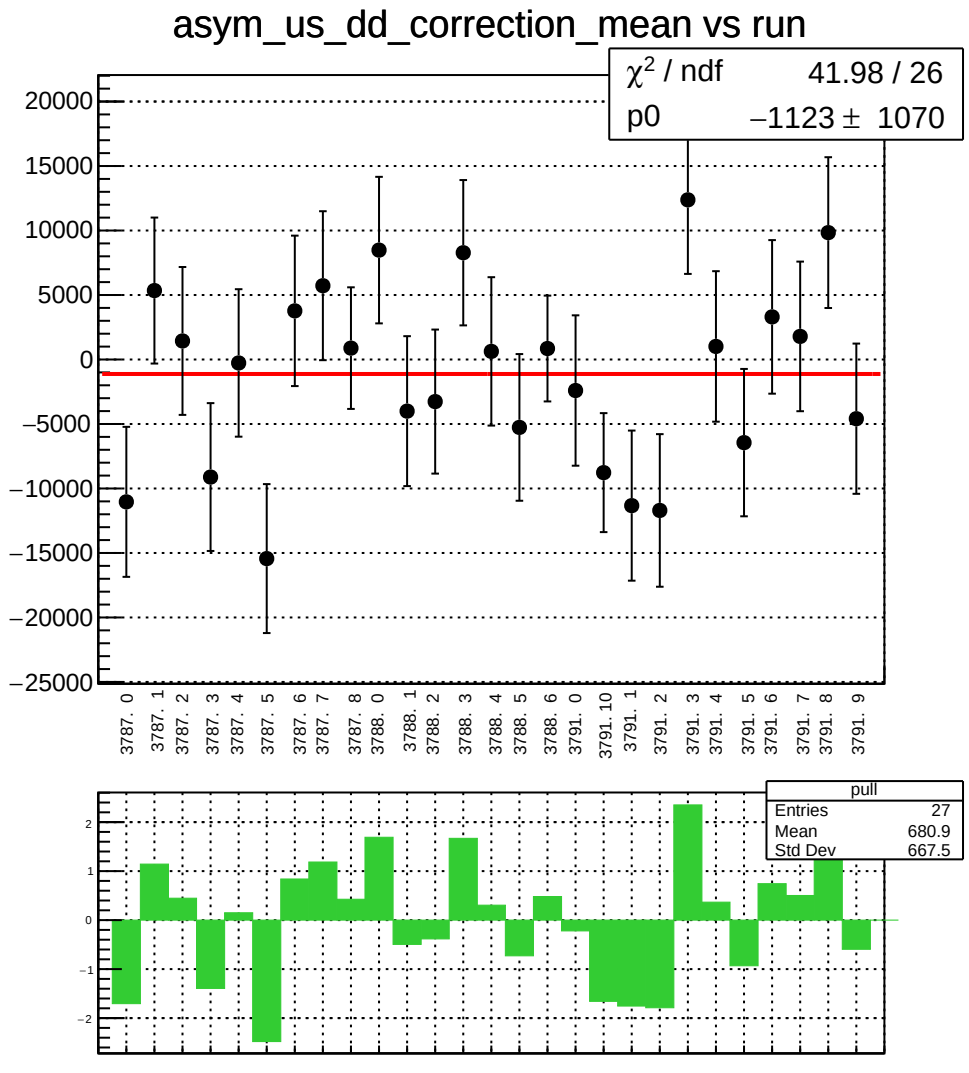

pull1D
Entries 27
Mean 0.02462
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

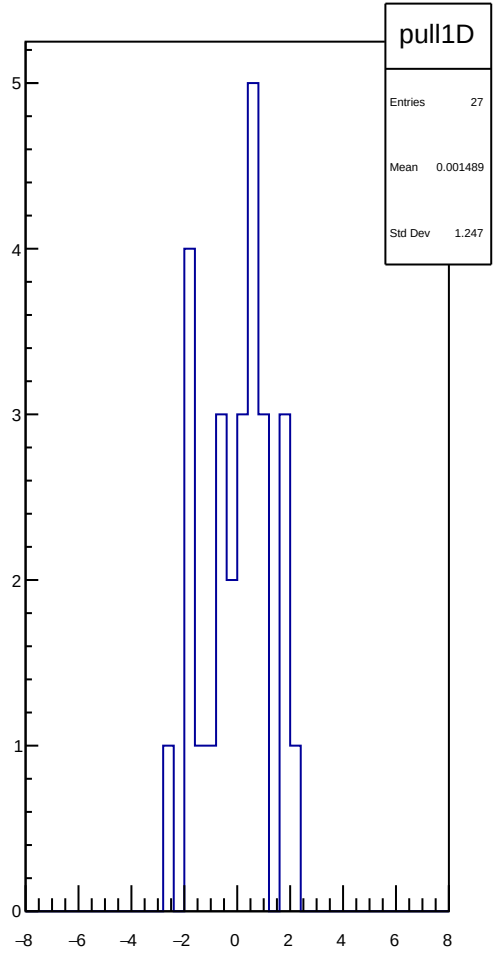

asym_us_avg_rms vs run
χ² / ndf 340.8 / 26
p0 227 ± 0.3143
240
235
230
225
220
215
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

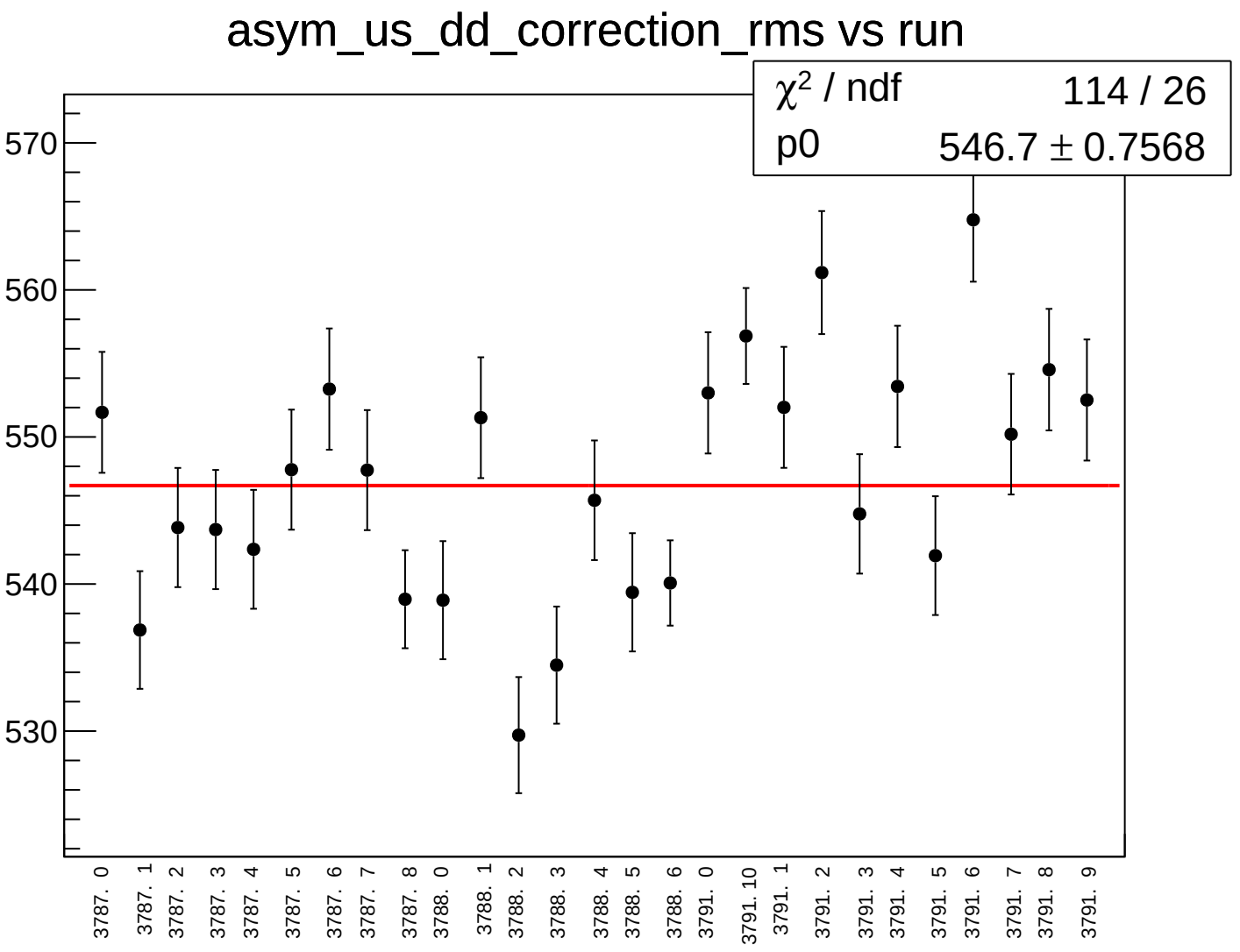

reg_asym_us_dd_mean vs run
χ² / ndf 29.38 / 26
p0 288.3 ± 180.1
3000
2000
1000
0
−1000
−2000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −68.73
Std Dev 152.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

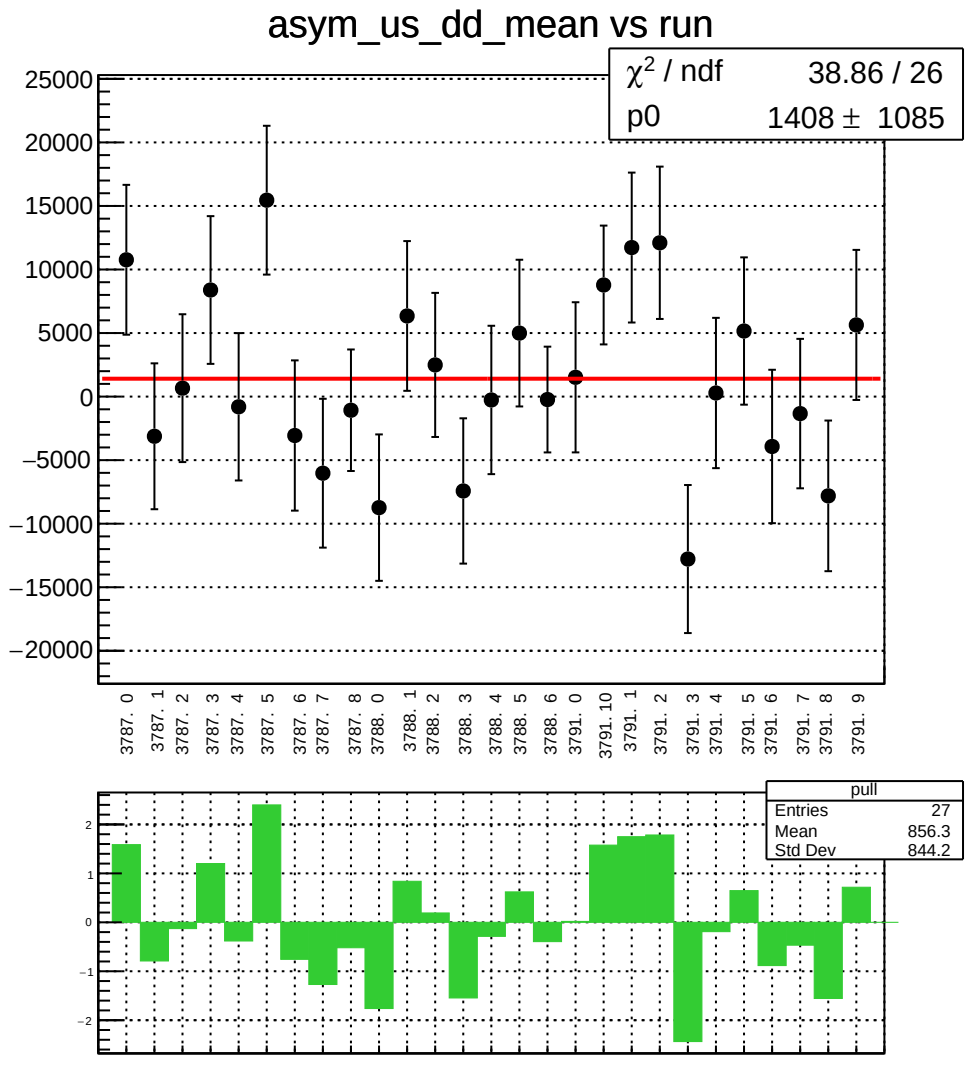

pull1D
Entries 27
Mean 0.0004695
Std Dev 1.043
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

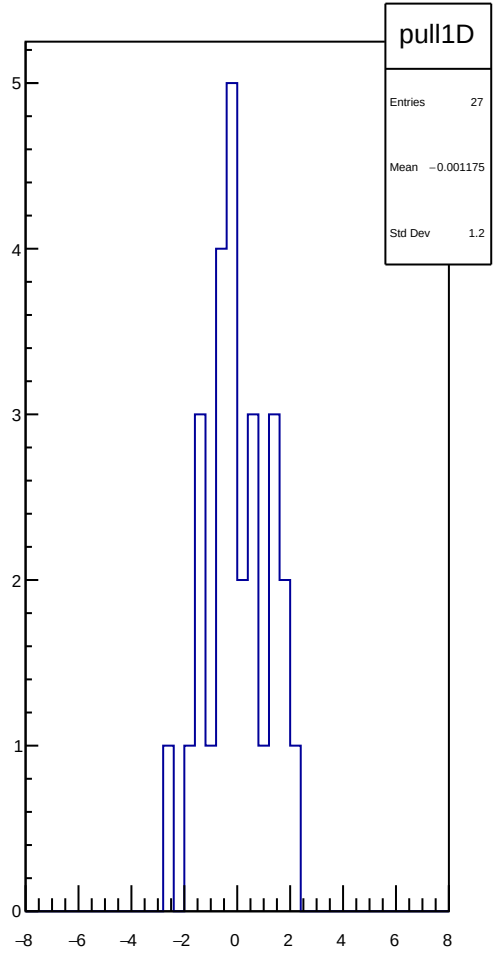

reg_asym_us_dd_rms vs run
χ² / ndf 47.64 / 26
p0 92.01 ± 0.1274
95
94
93
92
91
90
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

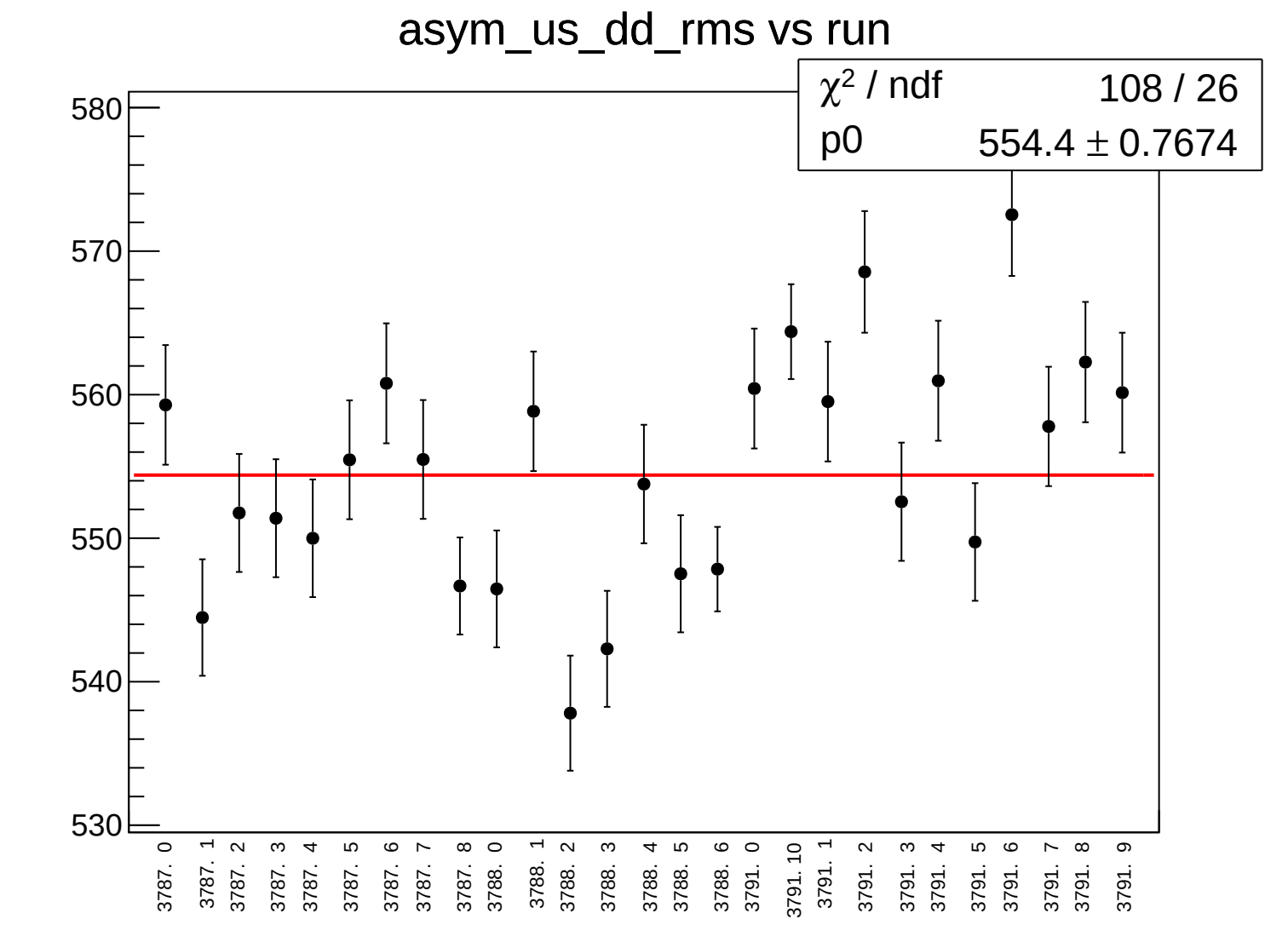

asym_us_dd_correction_mean vs run
χ² / ndf 41.98 / 26
p0 −1123 ± 1070
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 680.9
Std Dev 667.5
2
1
0
−1
−2

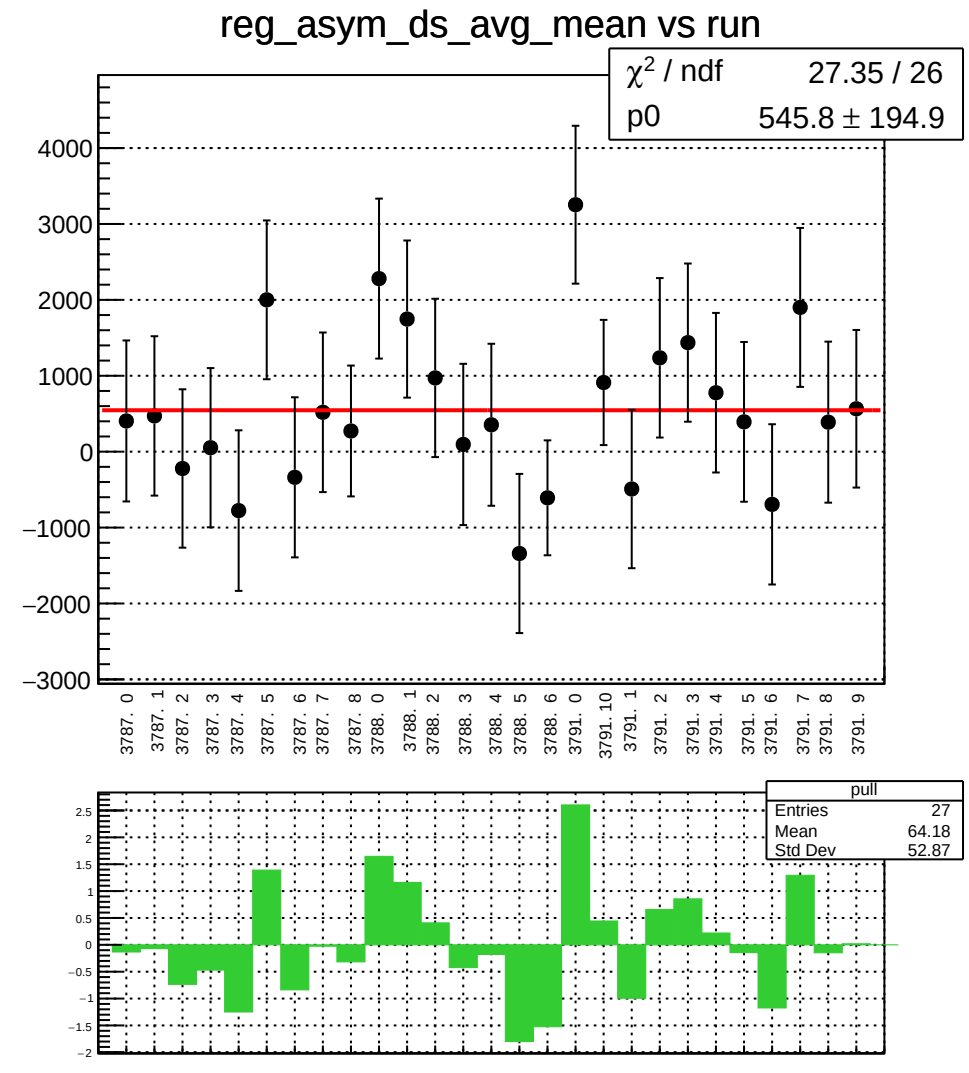

pull1D
Entries 27
Mean 0.001489
Std Dev 1.247
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

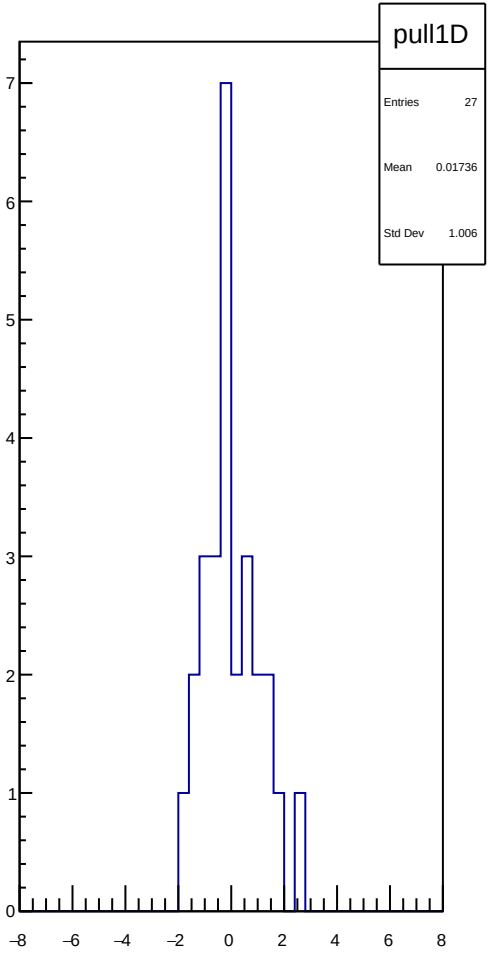

asym_us_dd_correction_rms vs run
χ² / ndf 114 / 26
p0 546.7 ± 0.7568
570
560
550
540
530
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

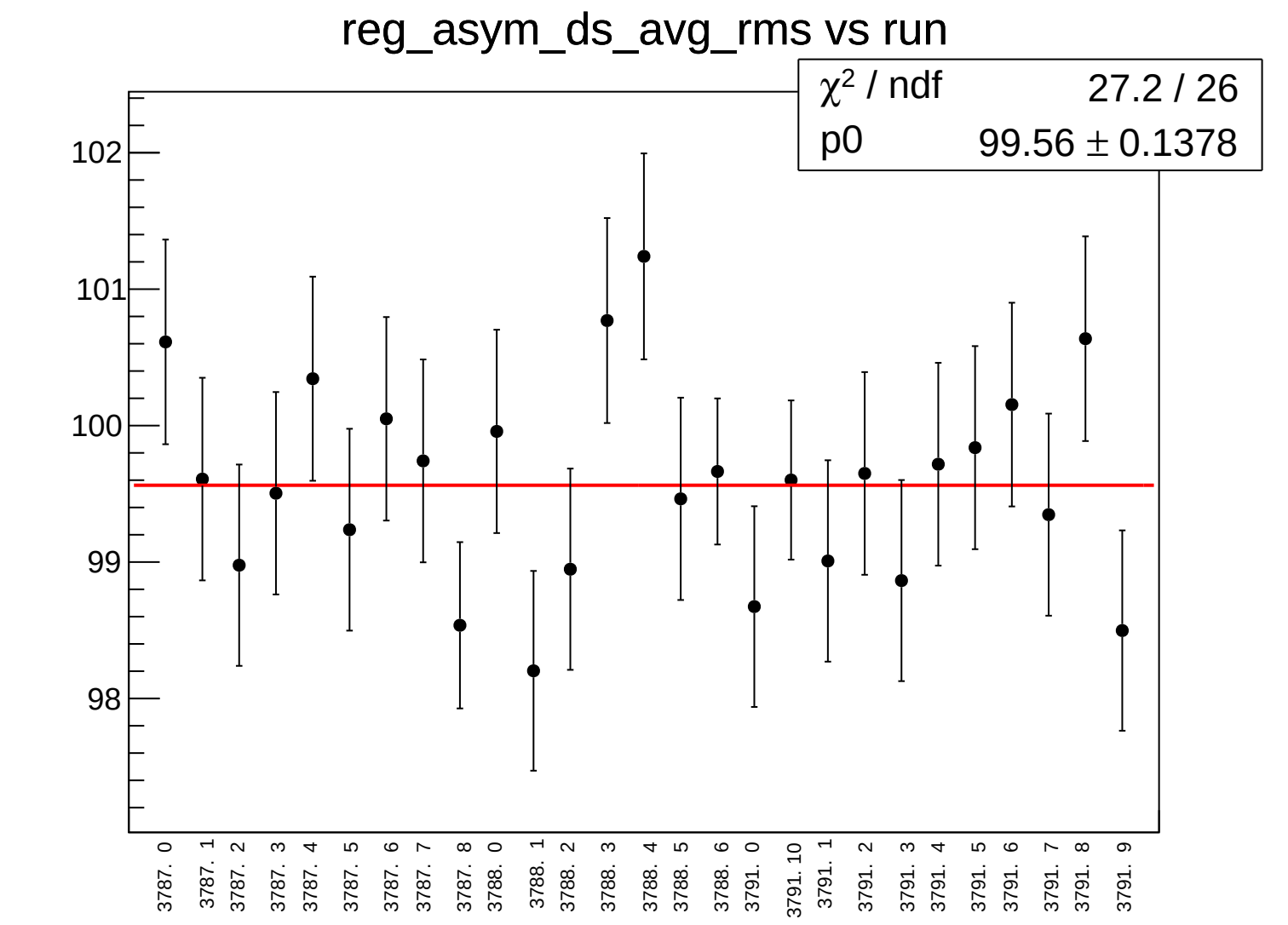

asym_us_dd_mean vs run
χ² / ndf 38.86 / 26
p0 1408 ± 1085
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 856.3
Std Dev 844.2
2
1
0
−1
−2

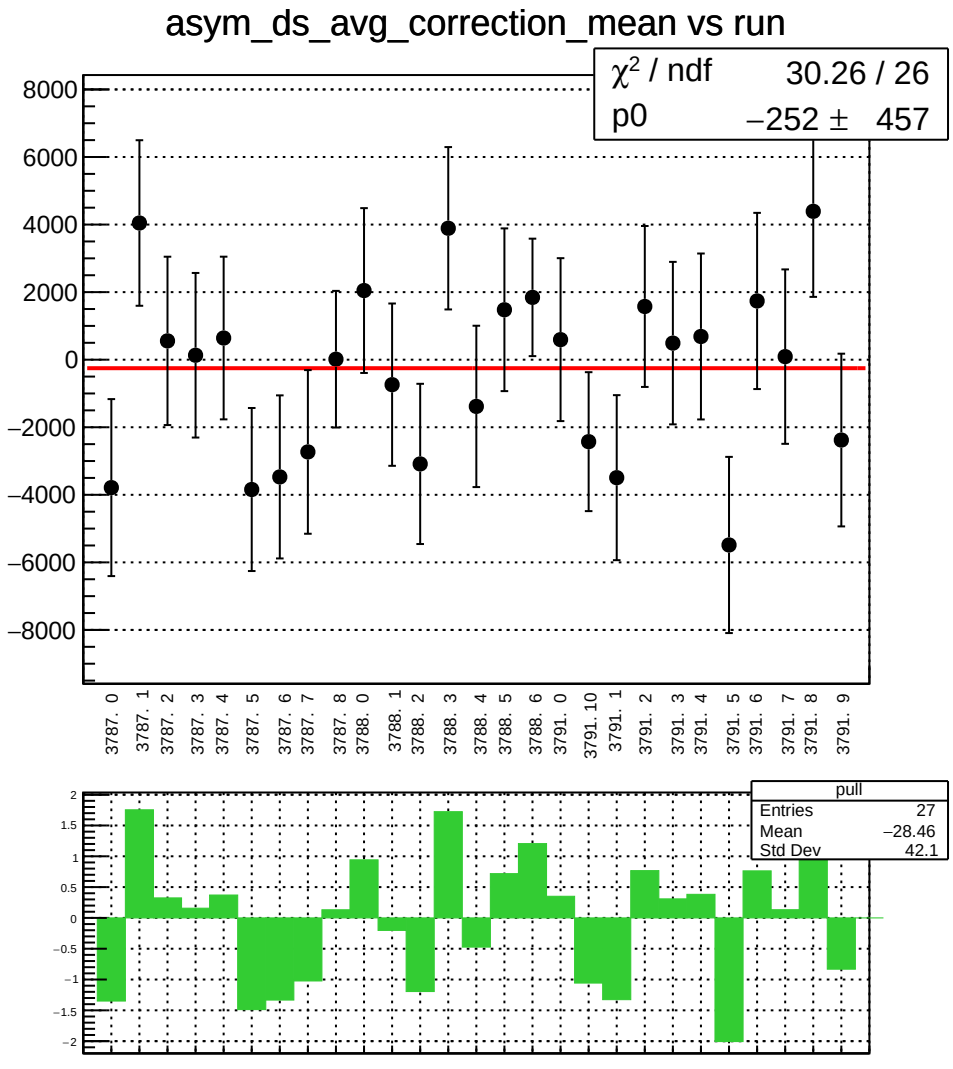

pull1D
Entries 27
Mean −0.001175
Std Dev 1.2
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

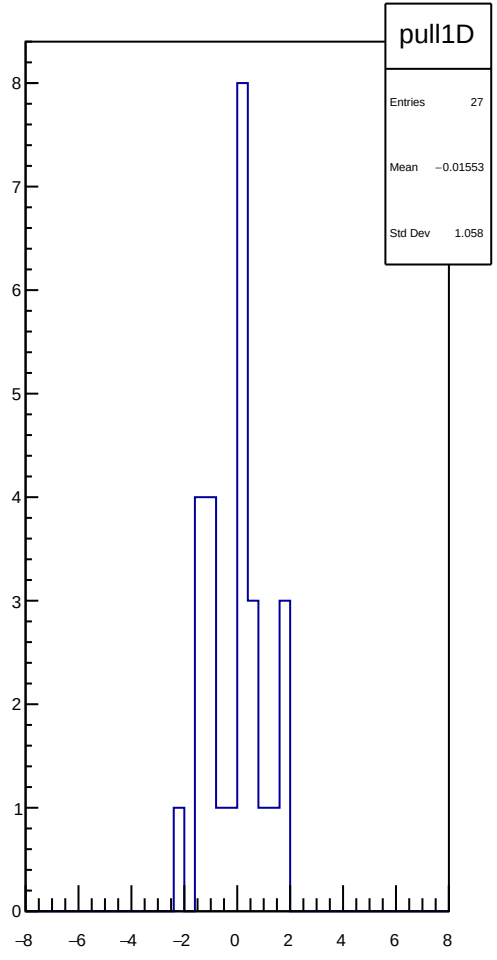

asym_us_dd_rms vs run
χ² / ndf 108 / 26
p0 554.4 ± 0.7674
580
570
560
550
540
530
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

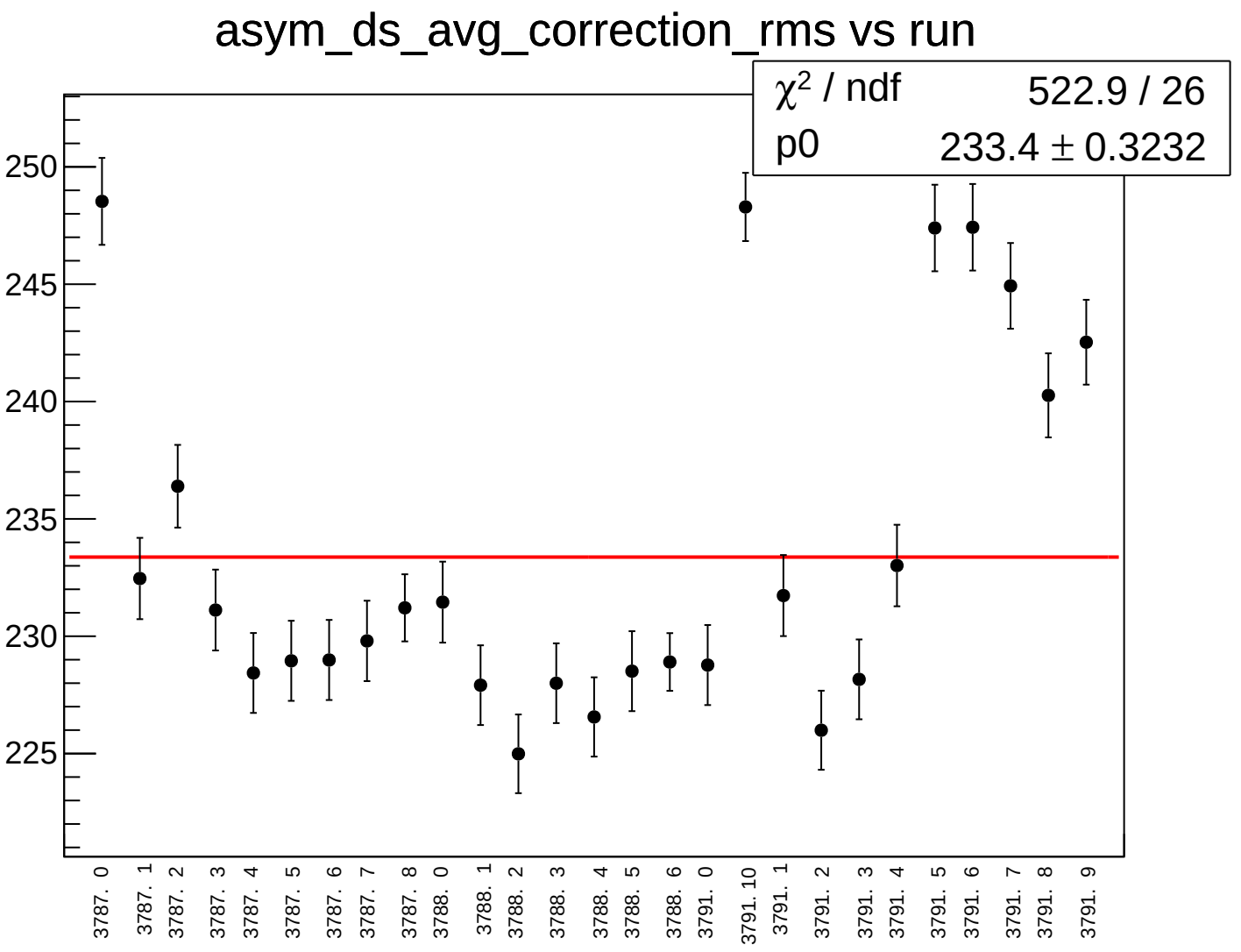

reg_asym_ds_avg_mean vs run
χ² / ndf 27.35 / 26
p0 545.8 ± 194.9
4000
3000
2000
1000
0
−1000
−2000
−3000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 64.18
Std Dev 52.87
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

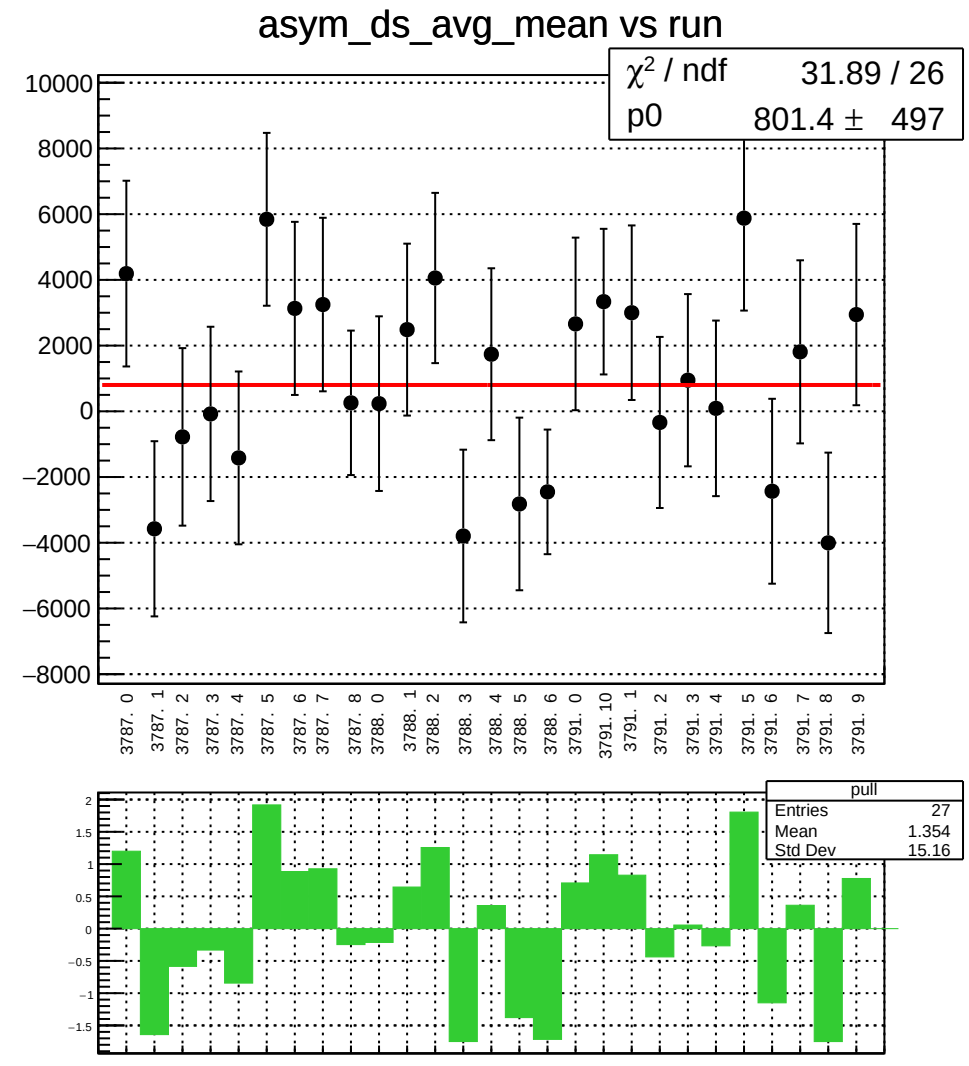

pull1D
Entries 27
Mean 0.01736
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

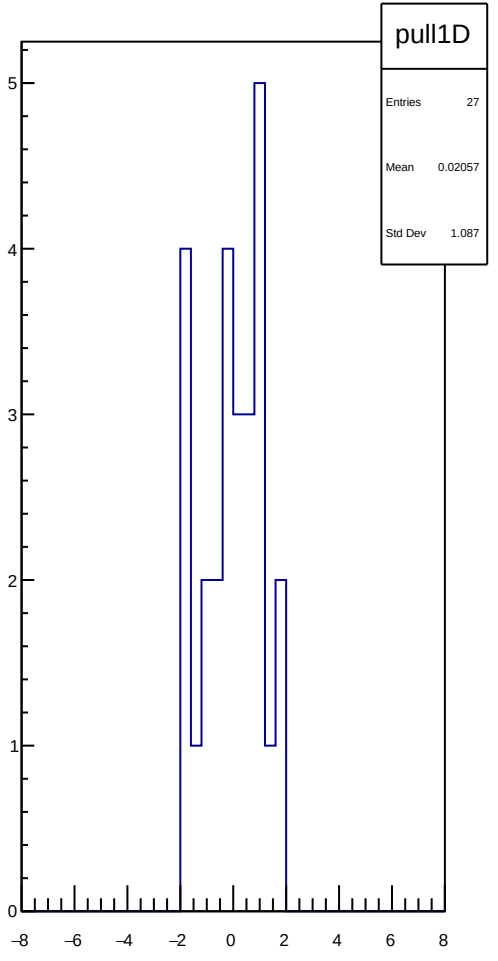

reg_asym_ds_avg_rms vs run
χ² / ndf 27.2 / 26
p0 99.56 ± 0.1378
102
101
100
99
98
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

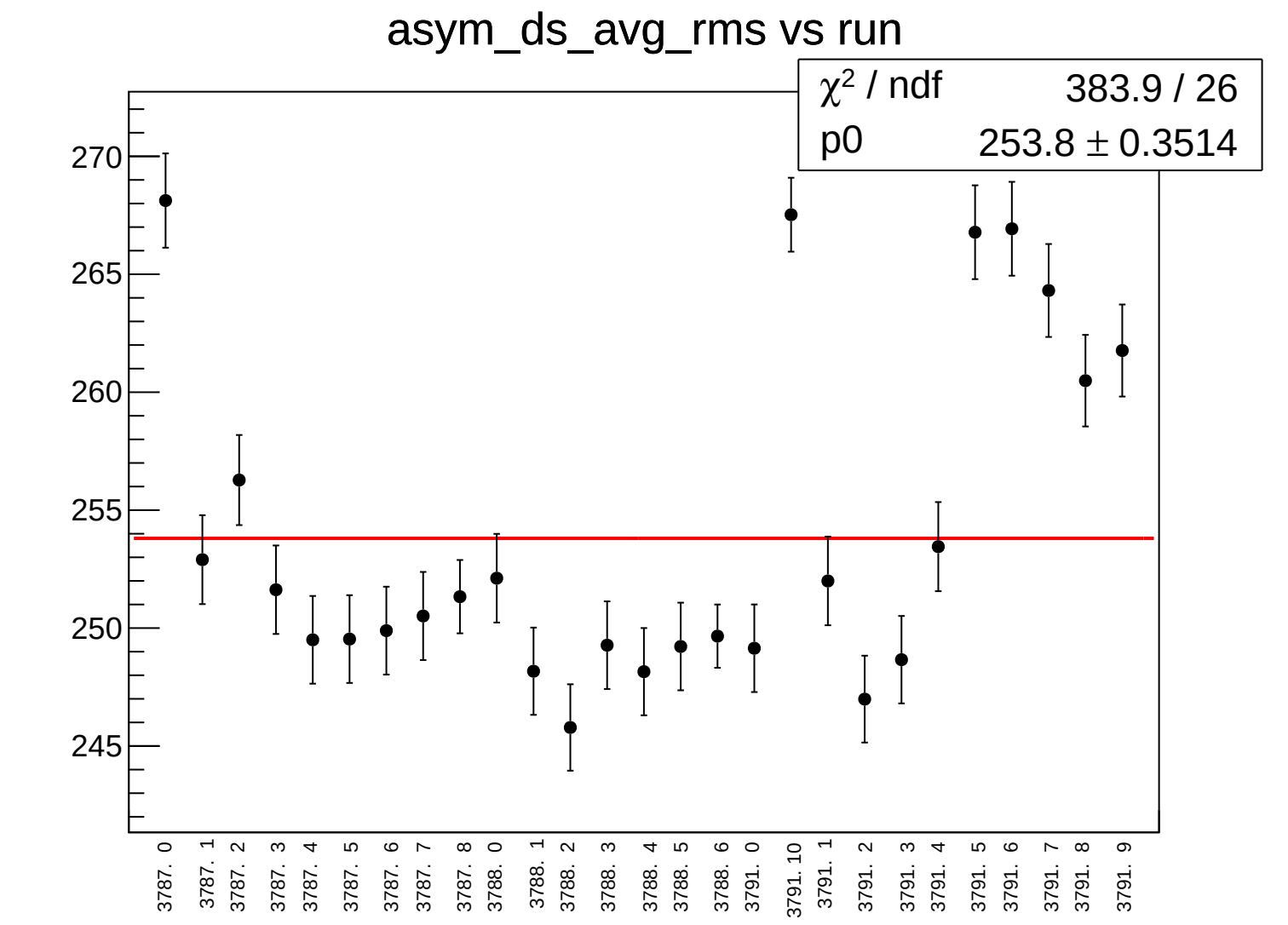

asym_ds_avg_correction_mean vs run
χ² / ndf 30.26 / 26
p0 −252 ± 457
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −28.46
Std Dev 42.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

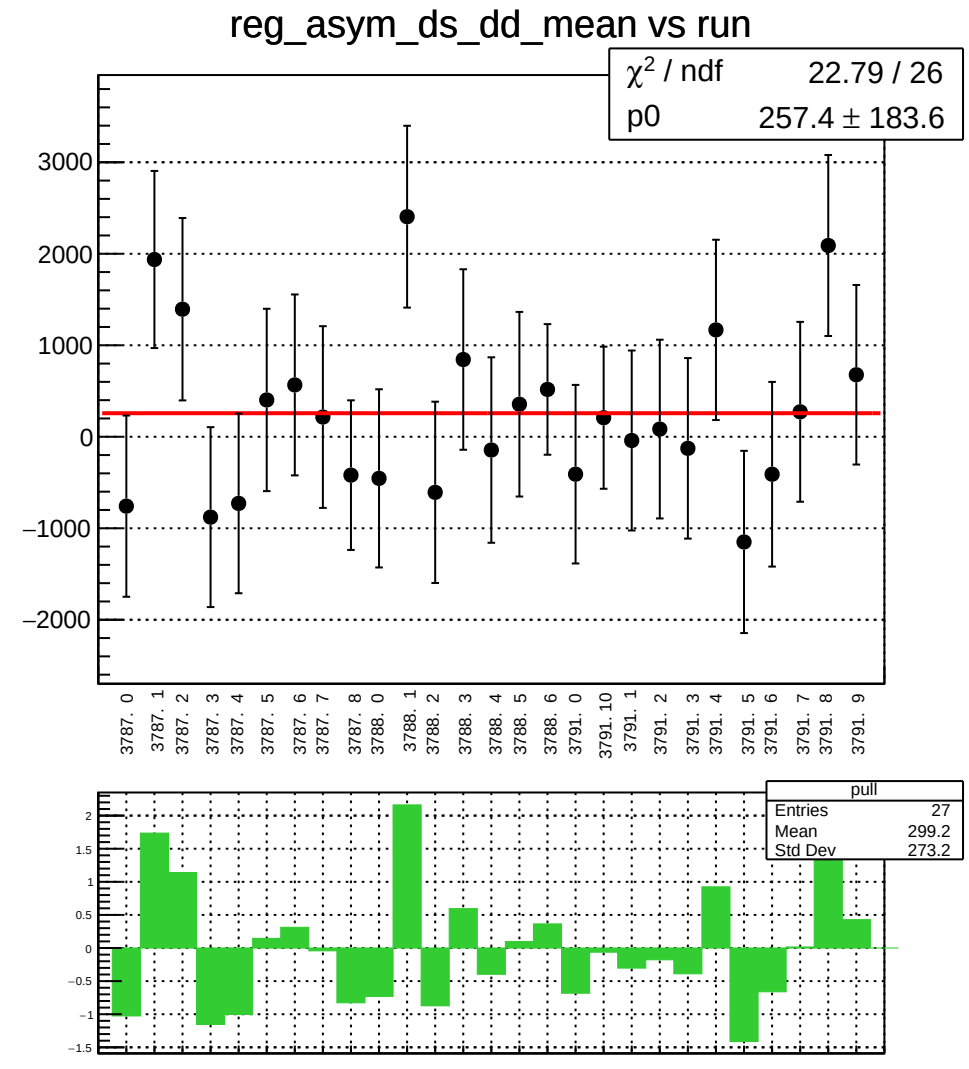

pull1D
Entries 27
Mean −0.01553
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

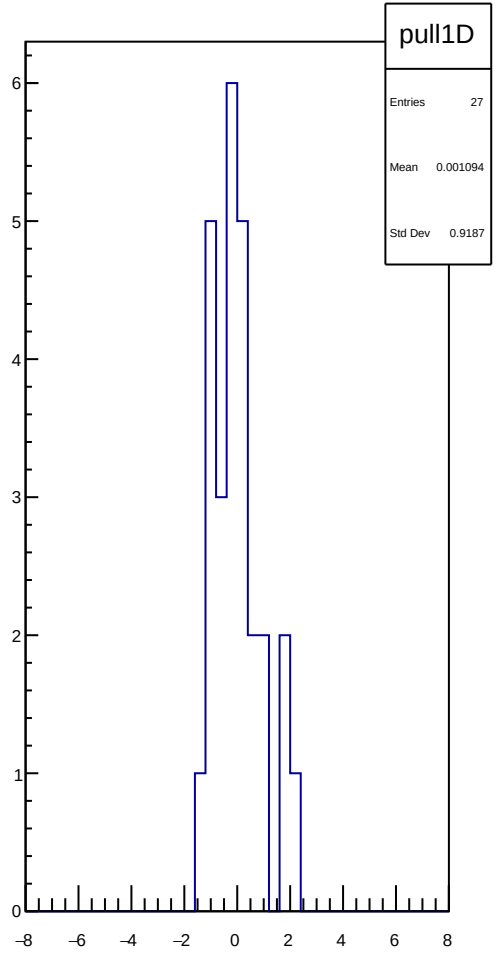

asym_ds_avg_correction_rms vs run
χ² / ndf 522.9 / 26
p0 233.4 ± 0.3232
250
245
240
235
230
225
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

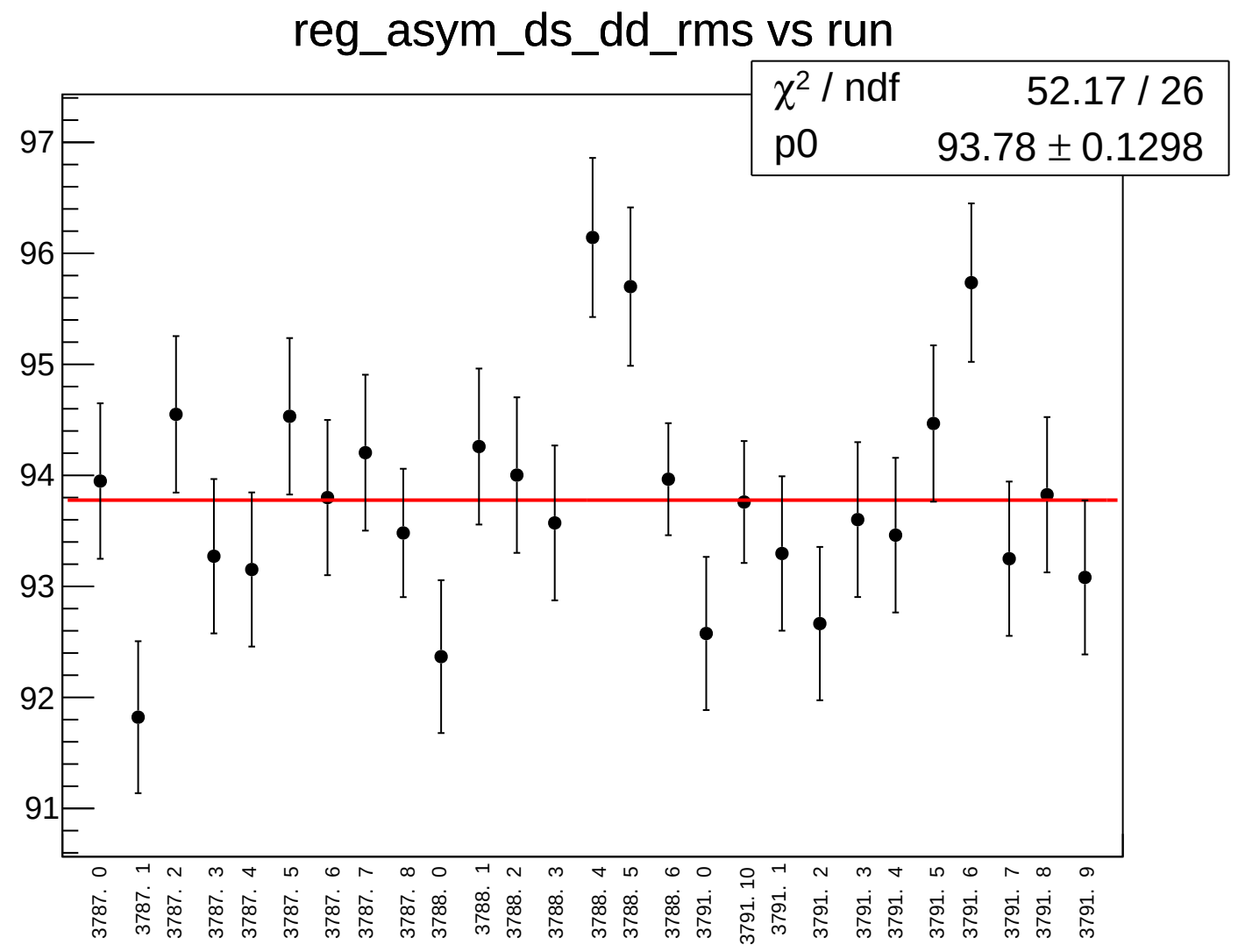

asym_ds_avg_mean vs run
χ² / ndf 31.89 / 26
p0 801.4 ± 497
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 1.354
Std Dev 15.16
2
1.5
1
0.5
0
−0.5
−1
−1.5

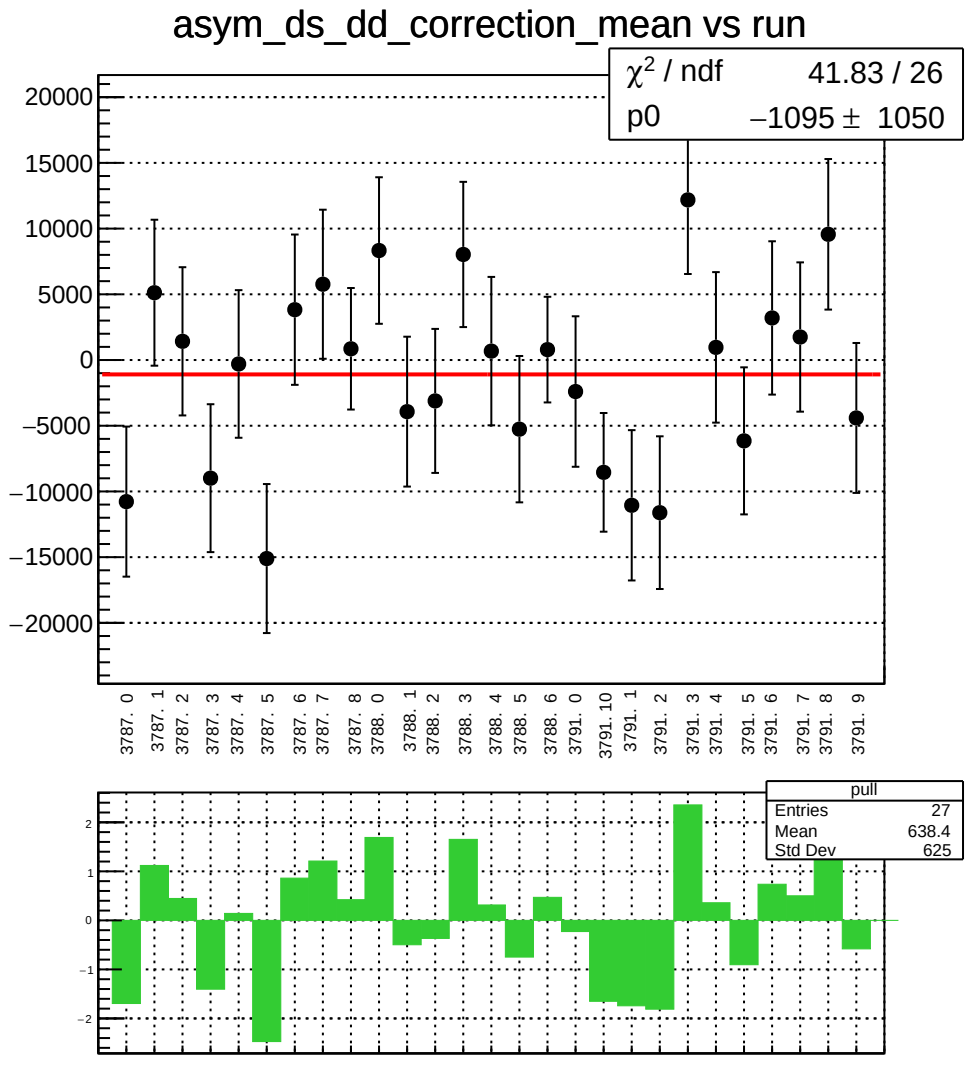

pull1D
Entries 27
Mean 0.02057
Std Dev 1.087
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

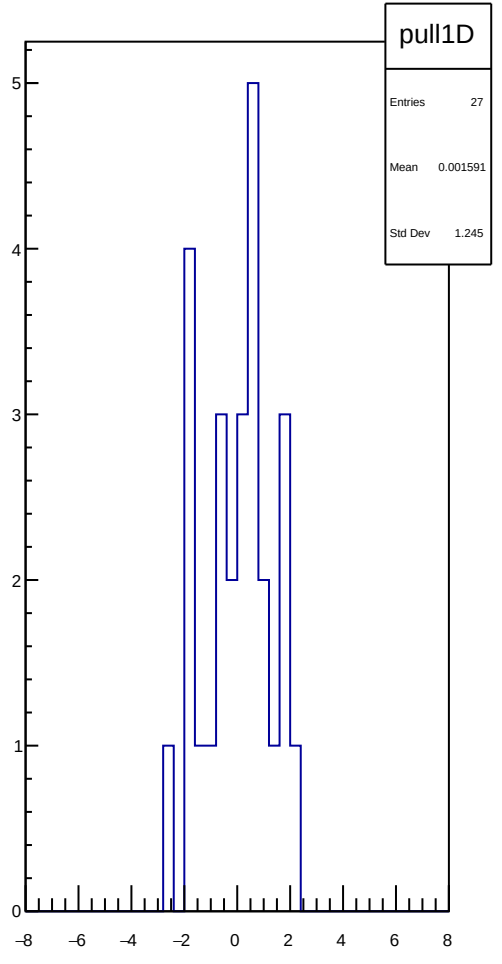

asym_ds_avg_rms vs run
χ² / ndf 383.9 / 26
p0 253.8 ± 0.3514
270
265
260
255
250
245
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

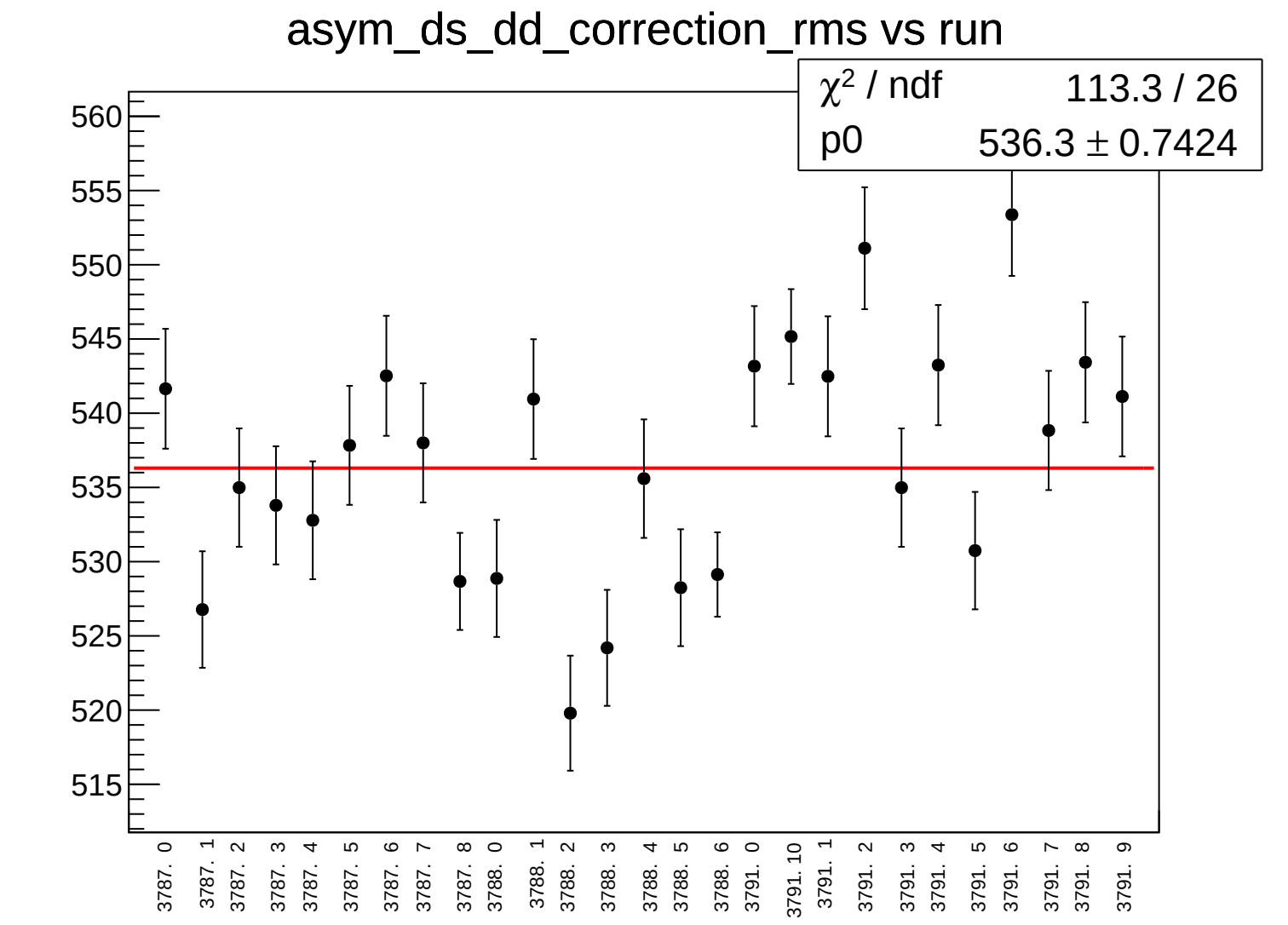

reg_asym_ds_dd_mean vs run
χ² / ndf 22.79 / 26
p0 257.4 ± 183.6
3000
2000
1000
0
−1000
−2000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 299.2
Std Dev 273.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

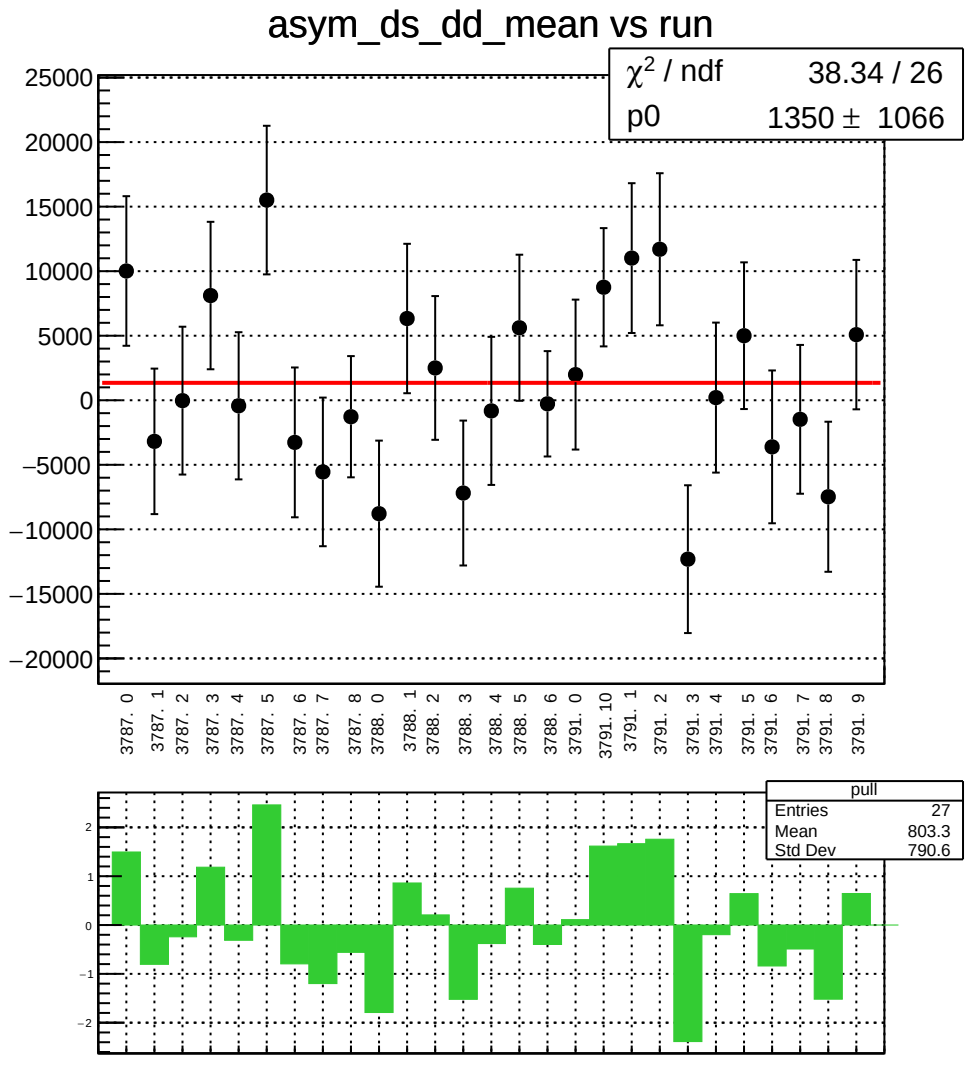

pull1D
Entries 27
Mean 0.001094
Std Dev 0.9187
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

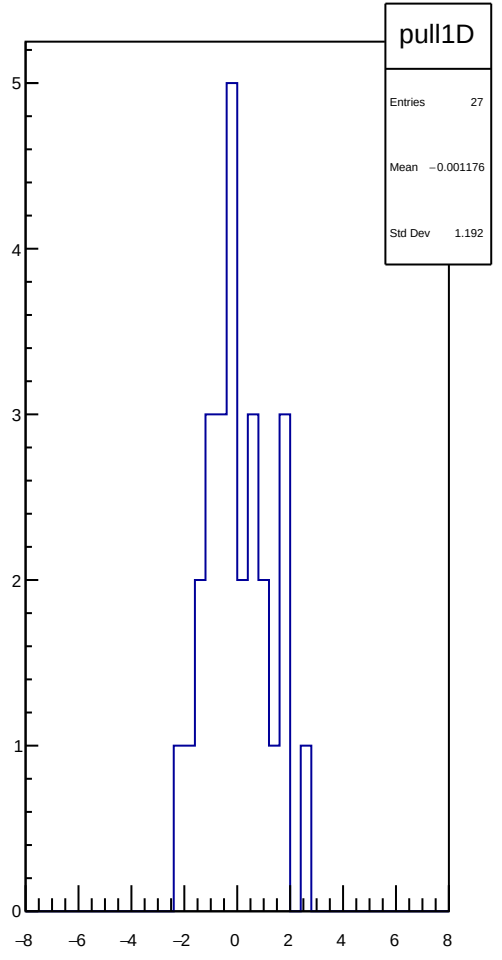

reg_asym_ds_dd_rms vs run
χ² / ndf 52.17 / 26
p0 93.78 ± 0.1298
97
96
95
94
93
92
91
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

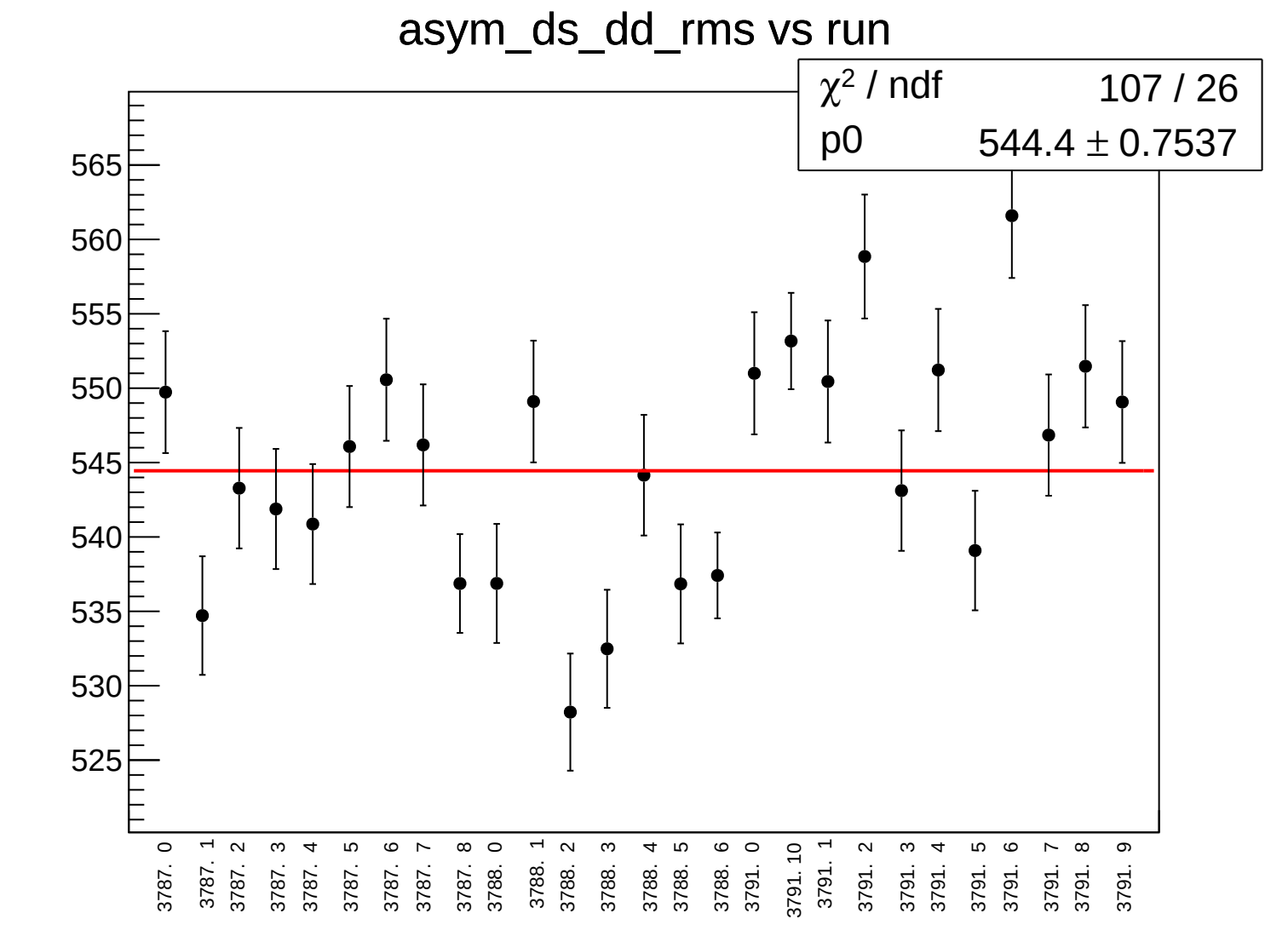

asym_ds_dd_correction_mean vs run
χ² / ndf 41.83 / 26
p0 −1095 ± 1050
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 638.4
Std Dev 625
2
1
0
−1
−2

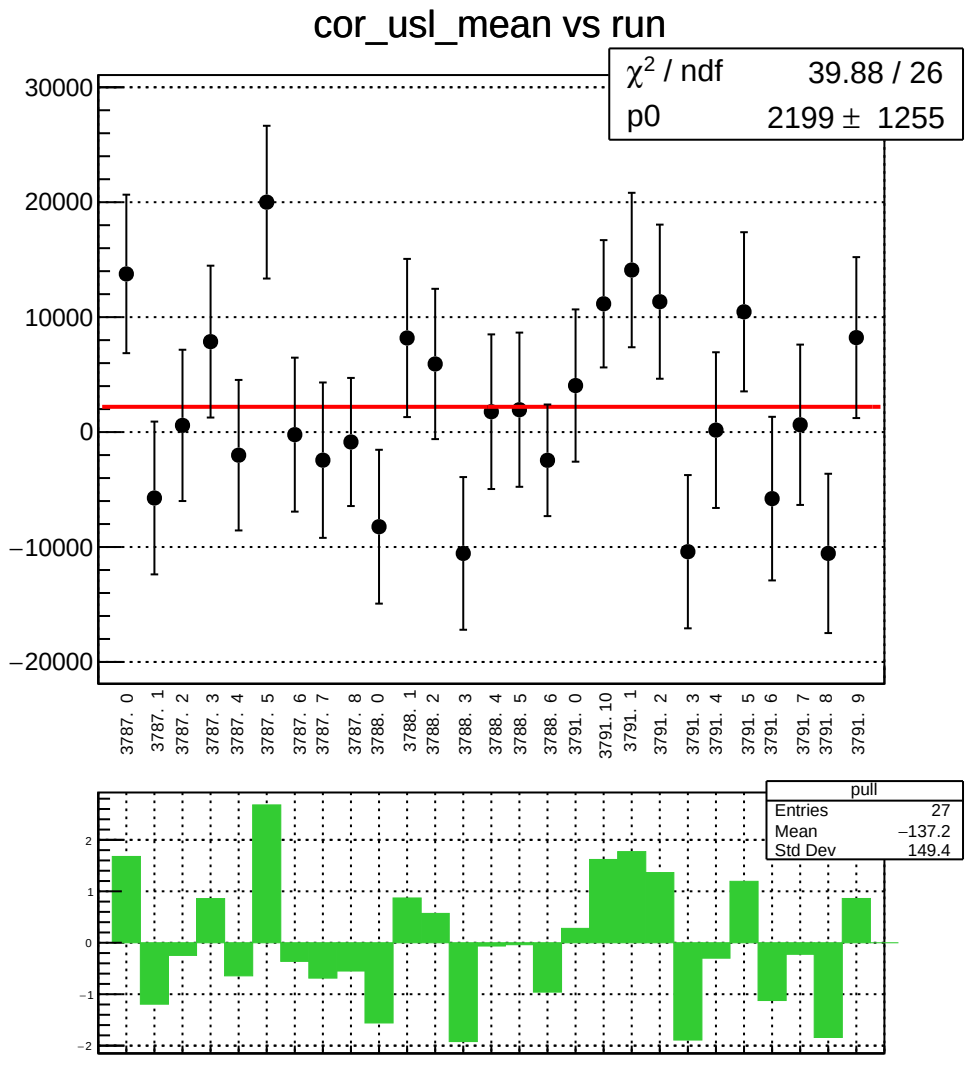

pull1D
Entries 27
Mean 0.001591
Std Dev 1.245
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

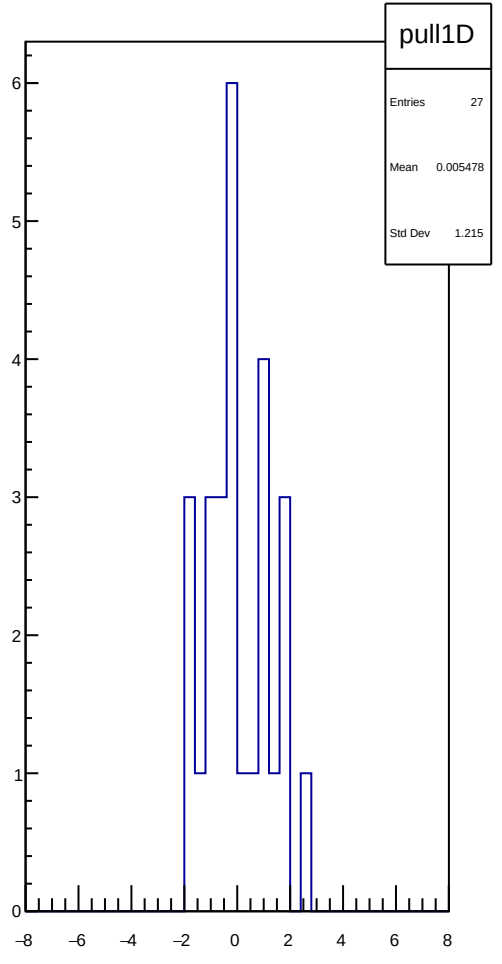

asym_ds_dd_correction_rms vs run
χ² / ndf 113.3 / 26
p0 536.3 ± 0.7424
560
555
550
545
540
535
530
525
520
515
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

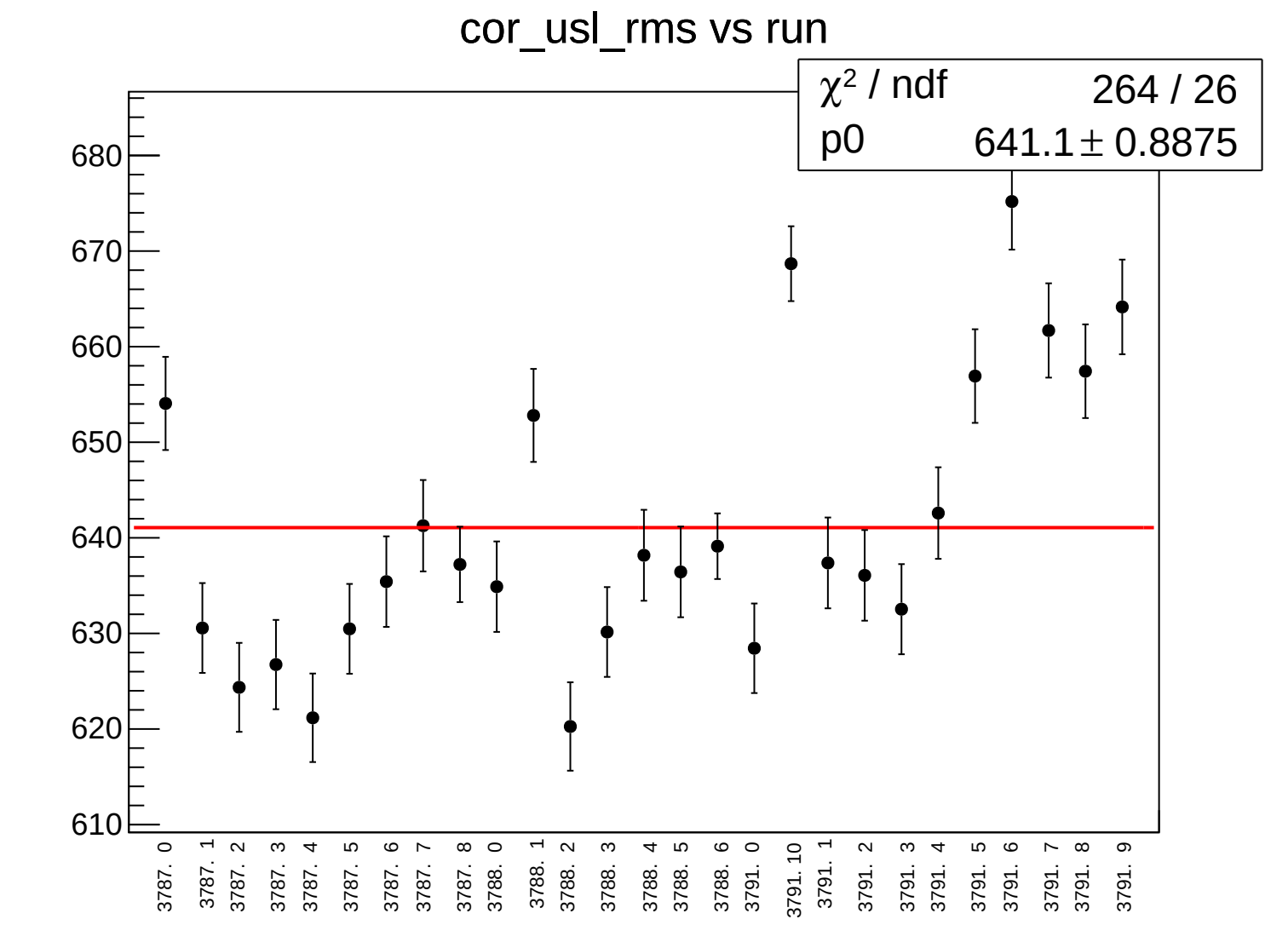

asym_ds_dd_mean vs run
χ² / ndf 38.34 / 26
p0 1350 ± 1066
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 803.3
Std Dev 790.6
2
1
0
−1
−2

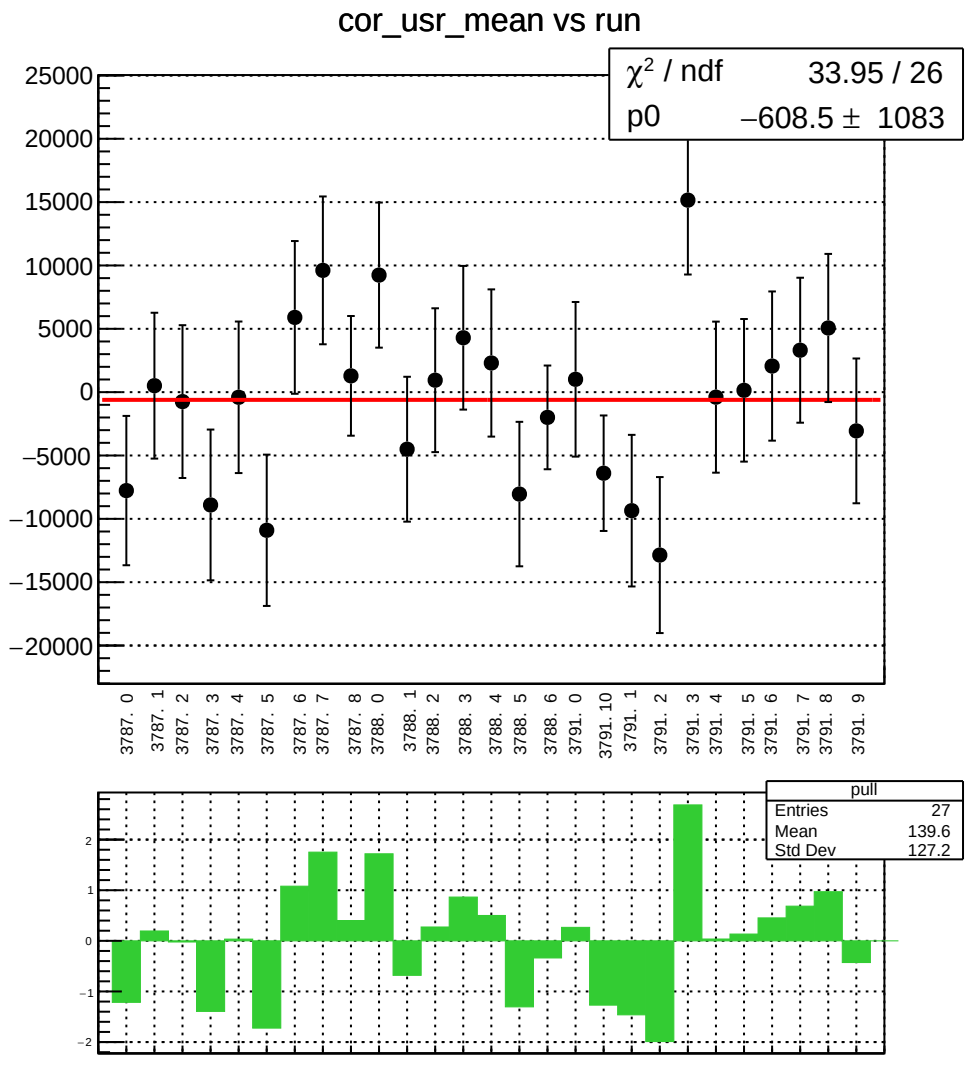

pull1D
Entries 27
Mean −0.001176
Std Dev 1.192
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

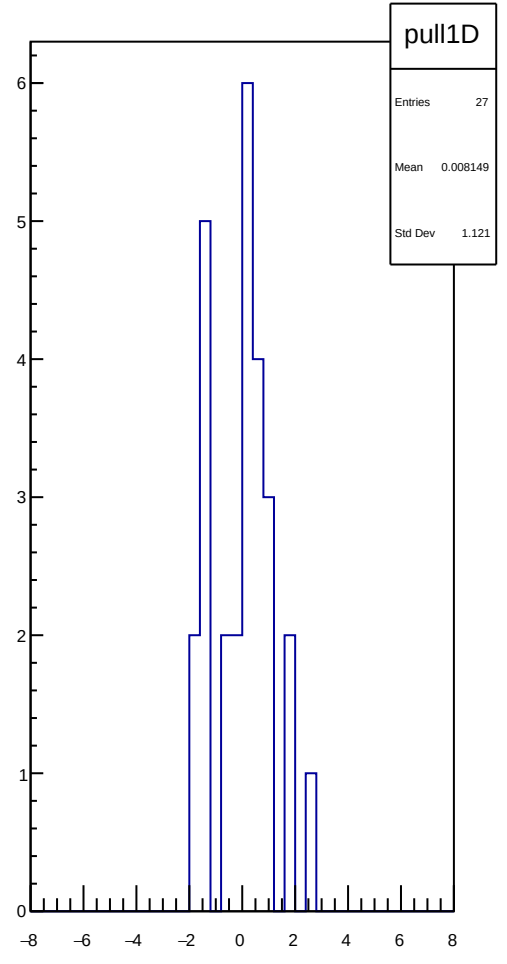

asym_ds_dd_rms vs run
χ² / ndf 107 / 26
p0 544.4 ± 0.7537
565
560
555
550
545
540
535
530
525
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

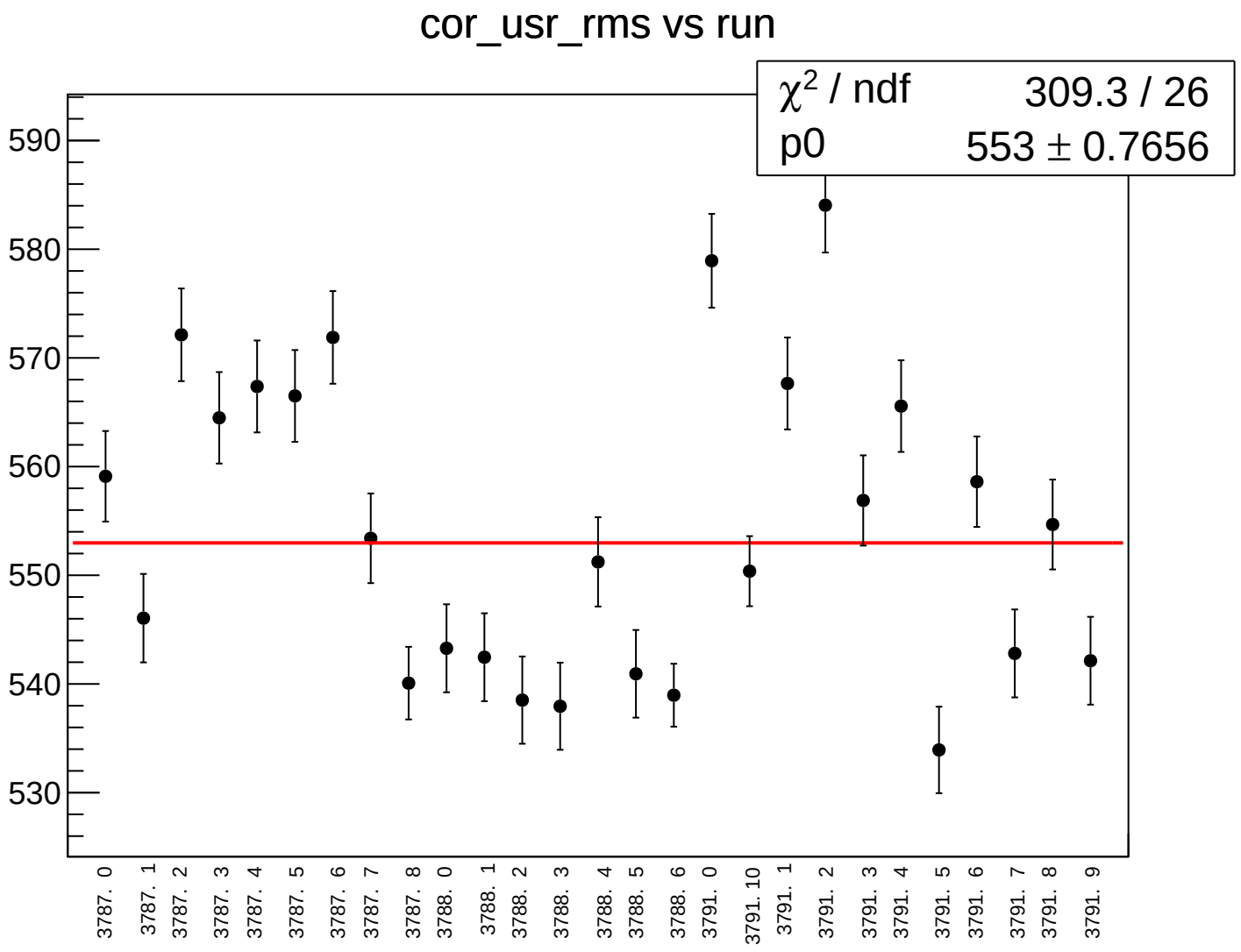

cor_usl_mean vs run
χ² / ndf 39.88 / 26
p0 2199 ± 1255
30000
20000
10000
0
−10000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −137.2
Std Dev 149.4
2
1
0
−1
−2

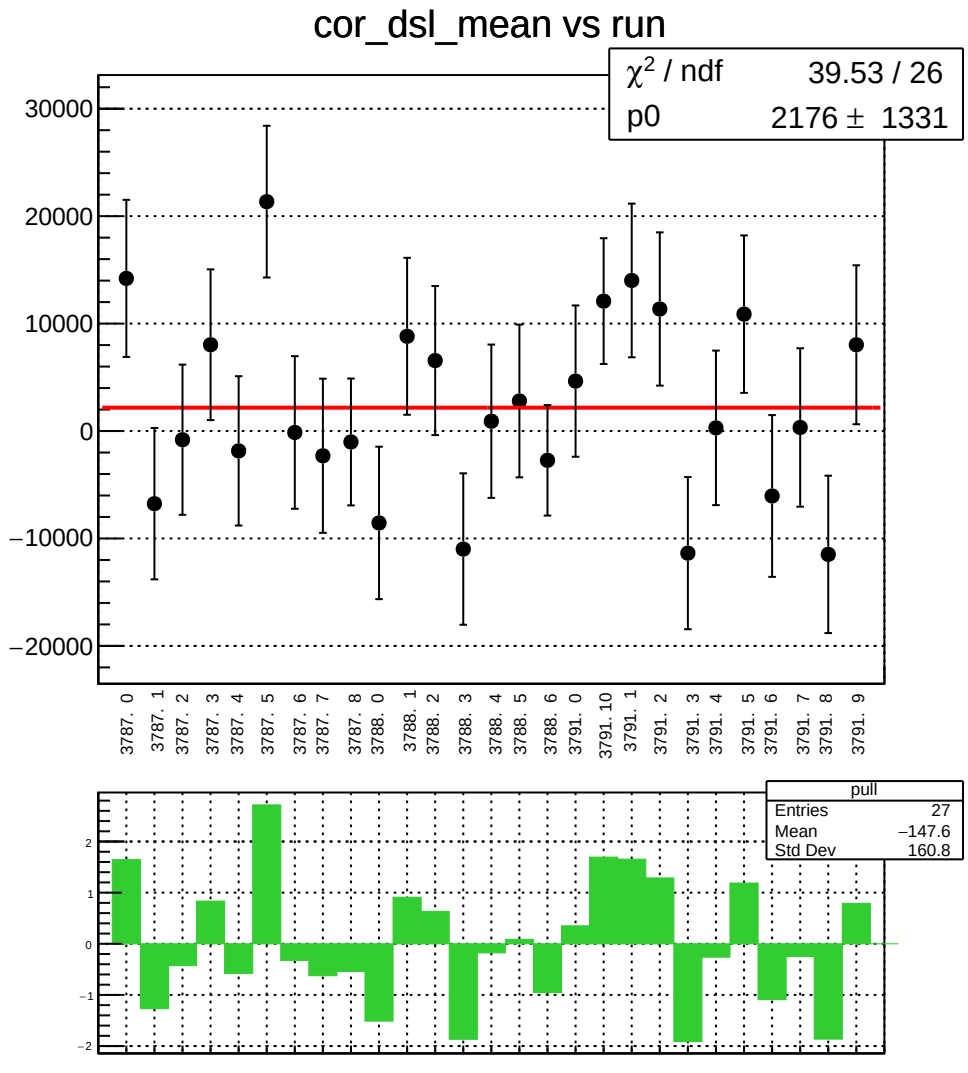

pull1D
Entries 27
Mean 0.005478
Std Dev 1.215
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

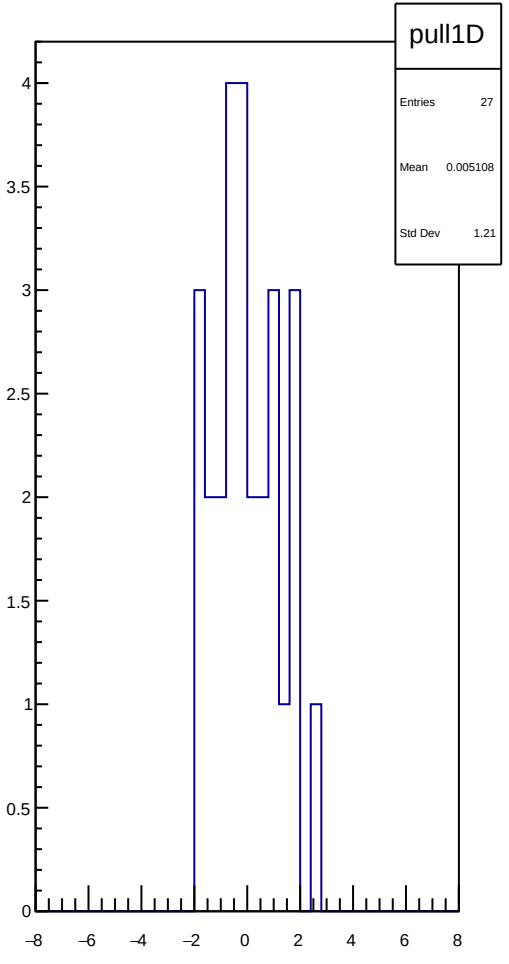

cor_usl_rms vs run
χ² / ndf 264 / 26
p0 641.1 ± 0.8875
680
670
660
650
640
630
620
610
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

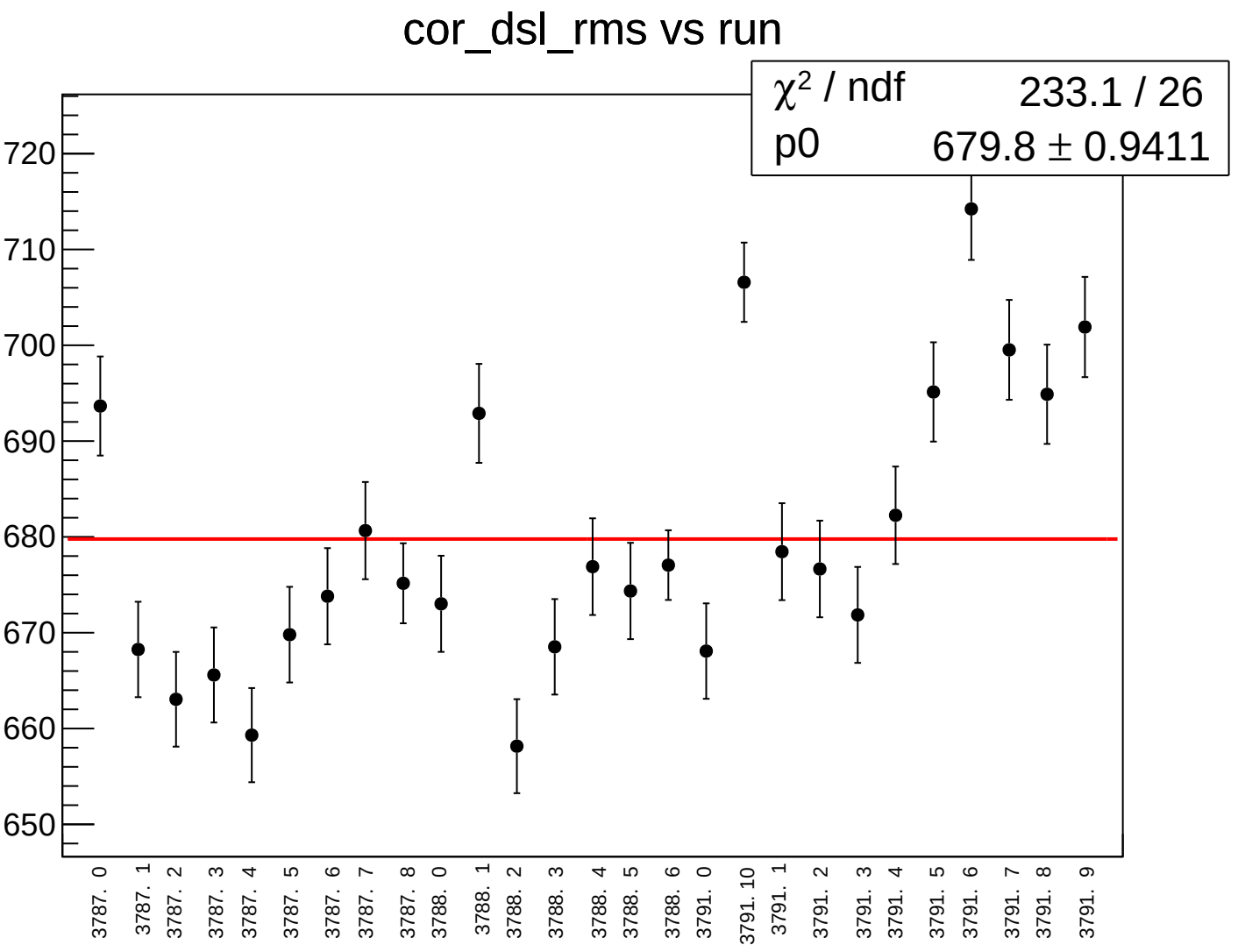

cor_usr_mean vs run
χ² / ndf 33.95 / 26
p0 −608.5 ± 1083
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 139.6
Std Dev 127.2
2
1
0
−1
−2

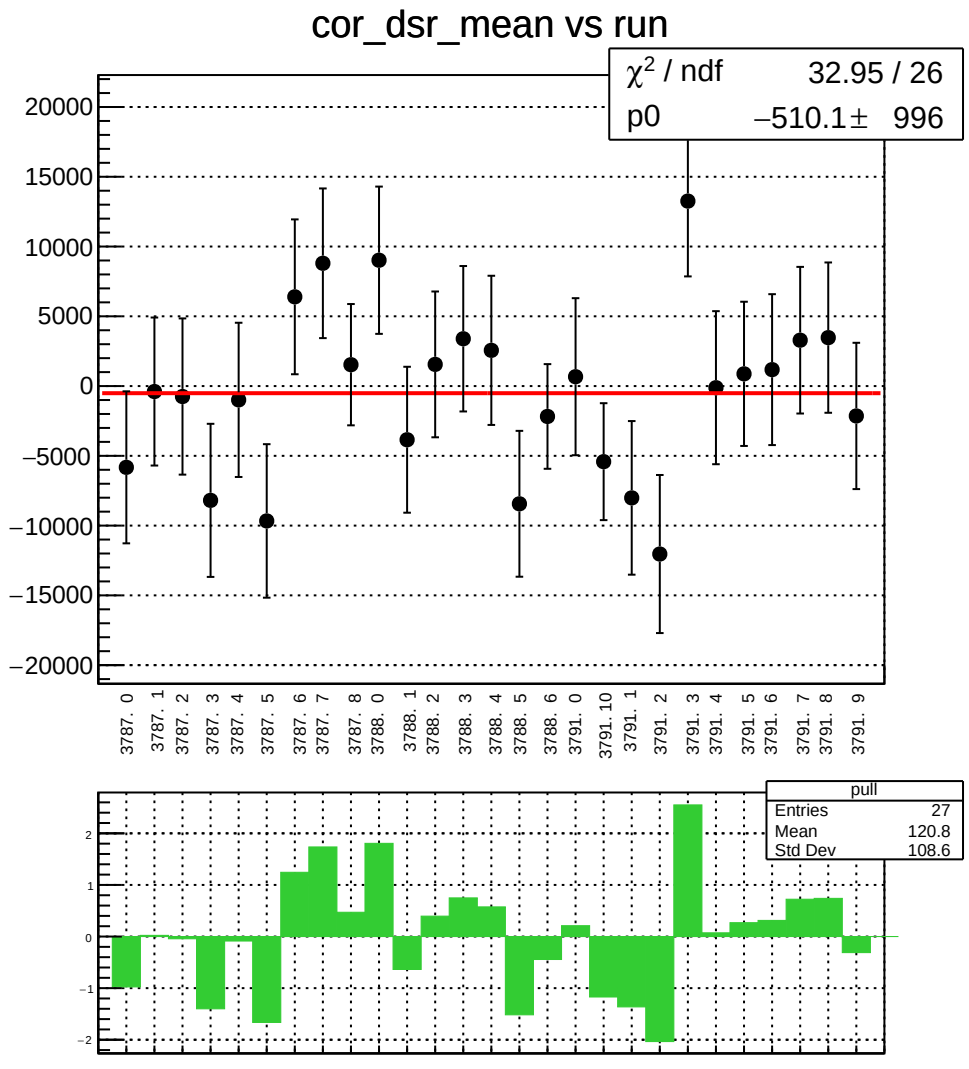

pull1D
Entries 27
Mean 0.008149
Std Dev 1.121
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

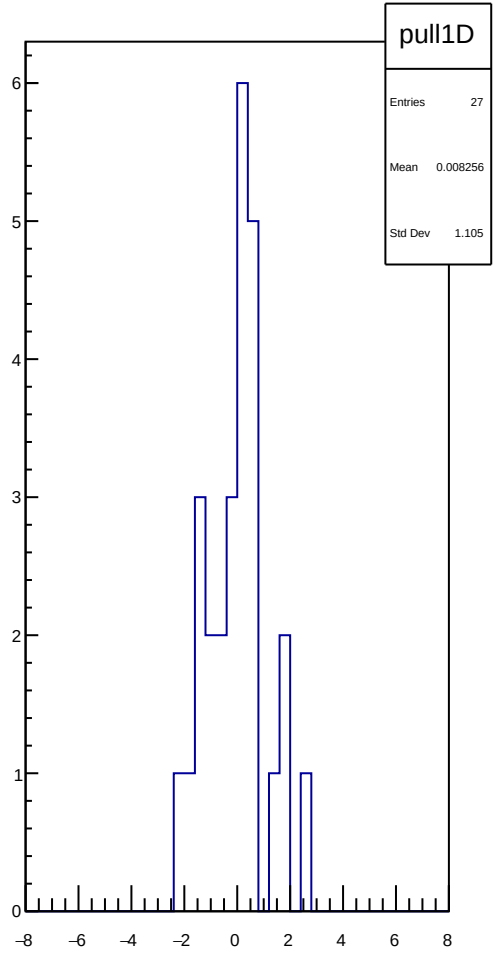

cor_usr_rms vs run
χ² / ndf 309.3 / 26
p0 553 ± 0.7656
590
580
570
560
550
540
530
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

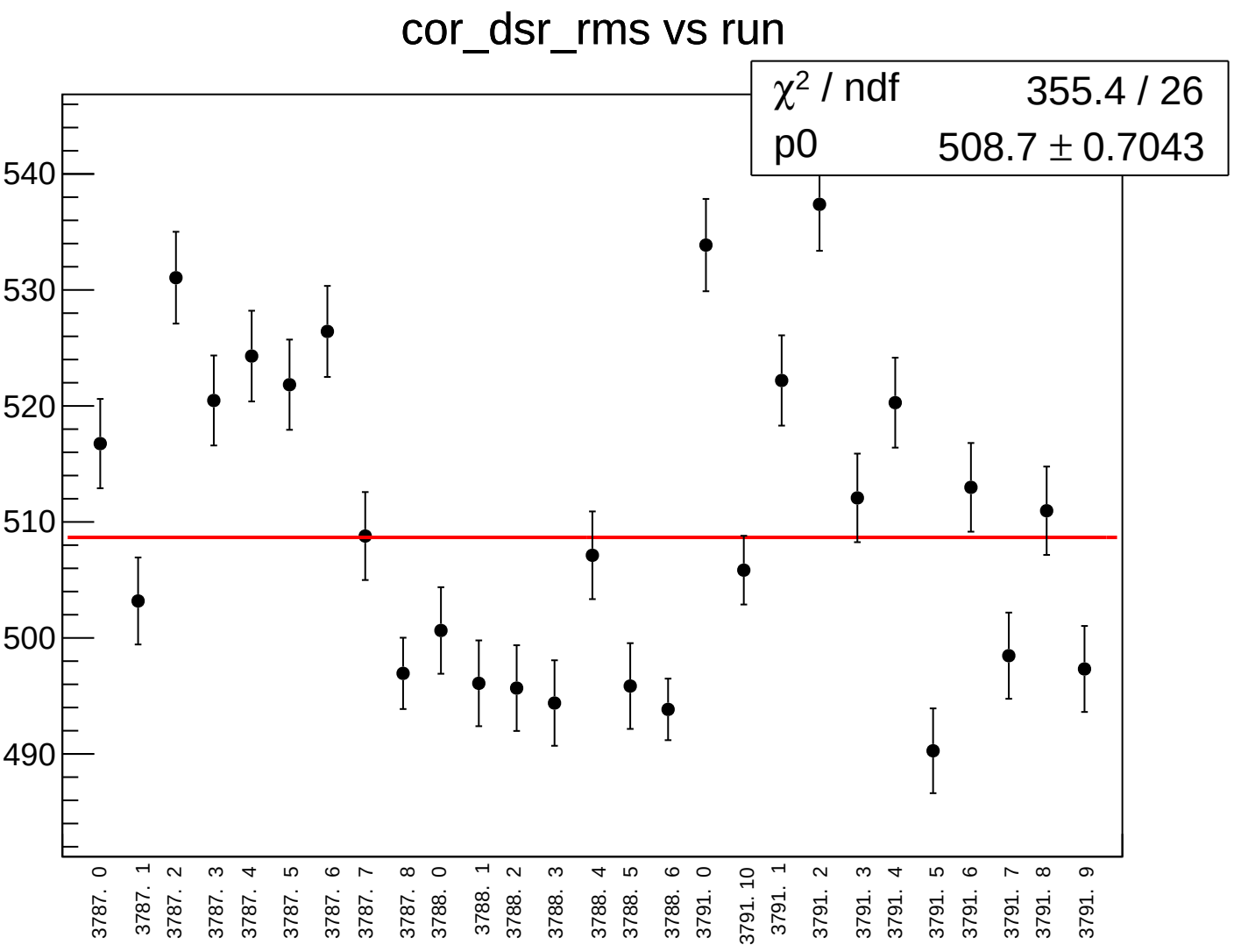

cor_dsl_mean vs run
χ² / ndf 39.53 / 26
p0 2176 ± 1331
30000
20000
10000
0
−10000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −147.6
Std Dev 160.8
2
1
0
−1
−2

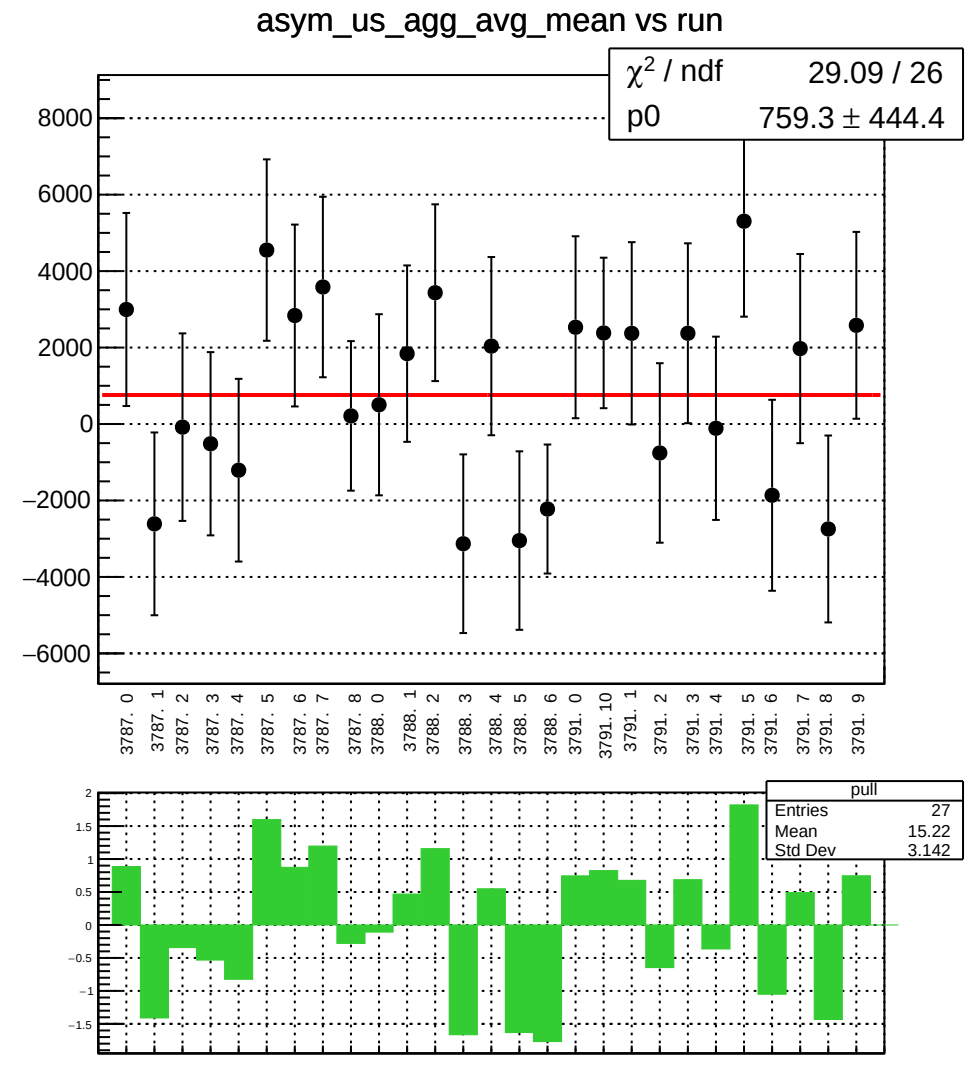

pull1D
Entries 27
Mean 0.005108
Std Dev 1.21
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

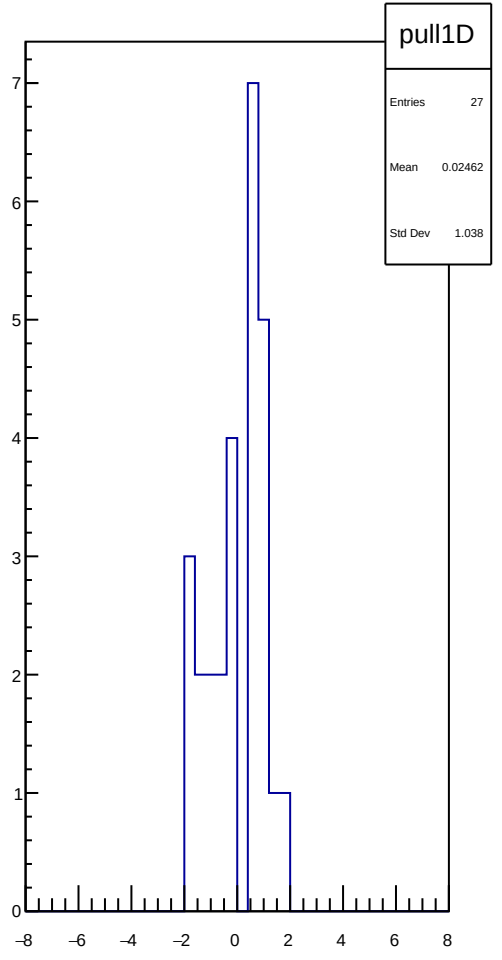

cor_dsl_rms vs run
χ² / ndf 233.1 / 26
p0 679.8 ± 0.9411
720
710
700
690
680
670
660
650
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

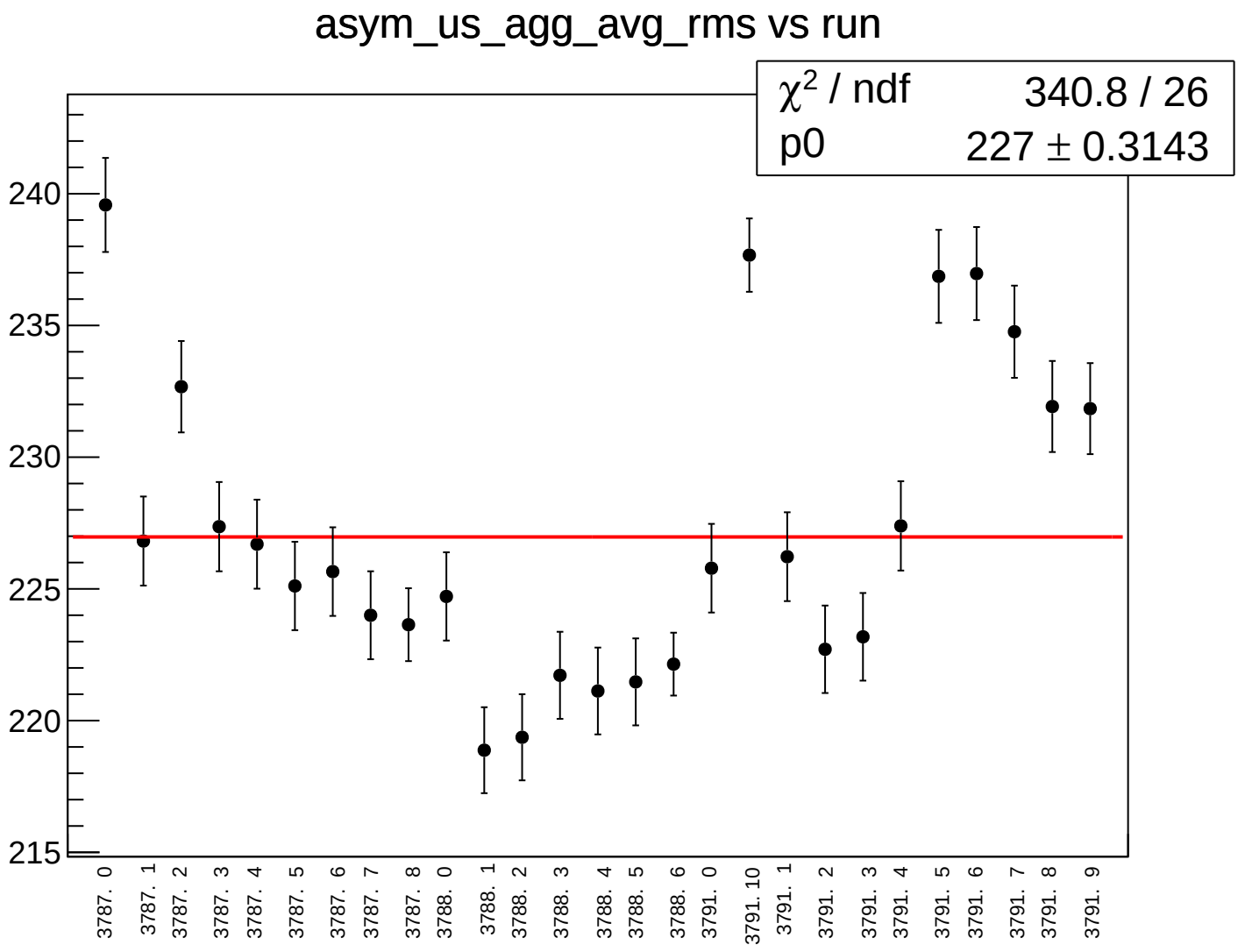

cor_dsr_mean vs run
χ² / ndf 32.95 / 26
p0 −510.1± 996
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 120.8
Std Dev 108.6
2
1
0
−1
−2

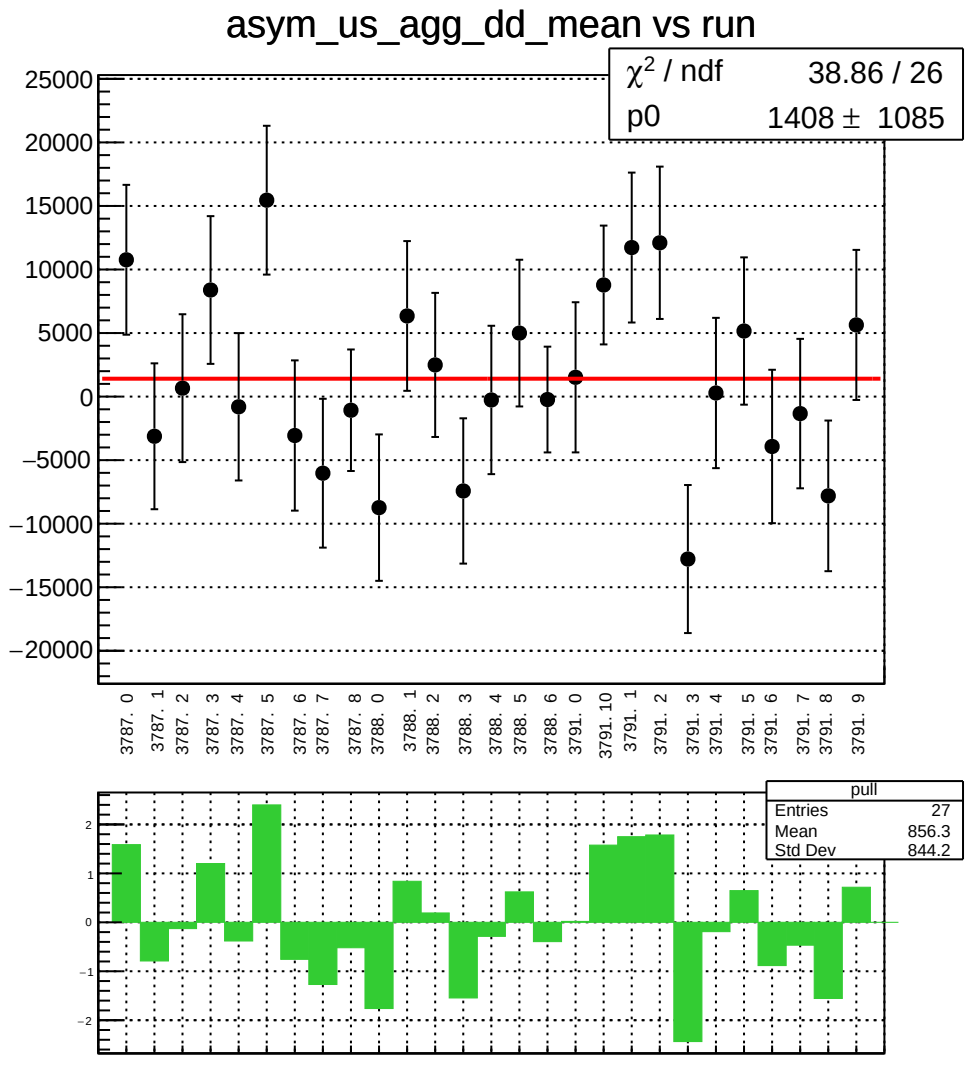

pull1D
Entries 27
Mean 0.008256
Std Dev 1.105
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_dsr_rms vs run
χ² / ndf 355.4 / 26
p0 508.7 ± 0.7043
540
530
520
510
500
490
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


asym_us_agg_avg_mean vs run
χ² / ndf 29.09 / 26
p0 759.3 ± 444.4
8000
6000
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 15.22
Std Dev 3.142
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 27
Mean 0.02462
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_agg_avg_rms vs run
χ^2 / ndf 340.8 / 26
p0 227 ± 0.3143
240
235
230
225
220
215
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


asym_us_agg_dd_mean vs run
χ² / ndf 38.86 / 26
p0 1408 ± 1085
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
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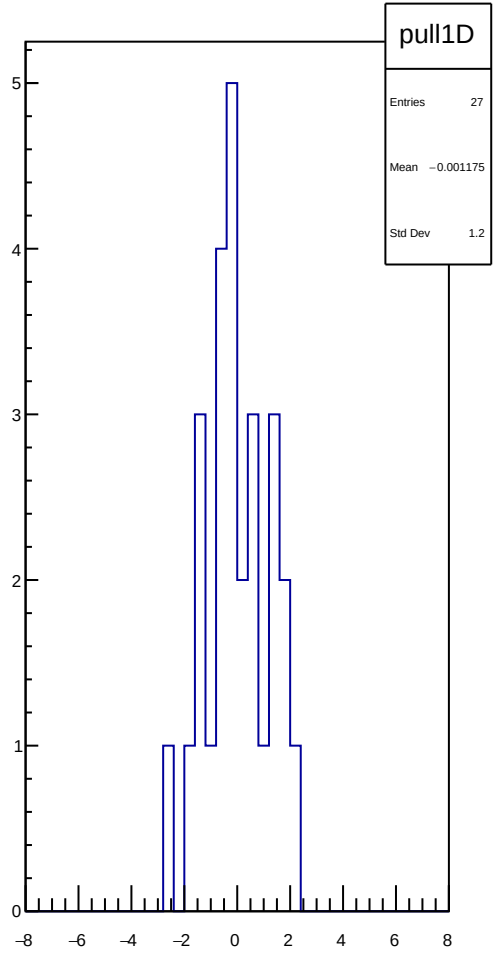
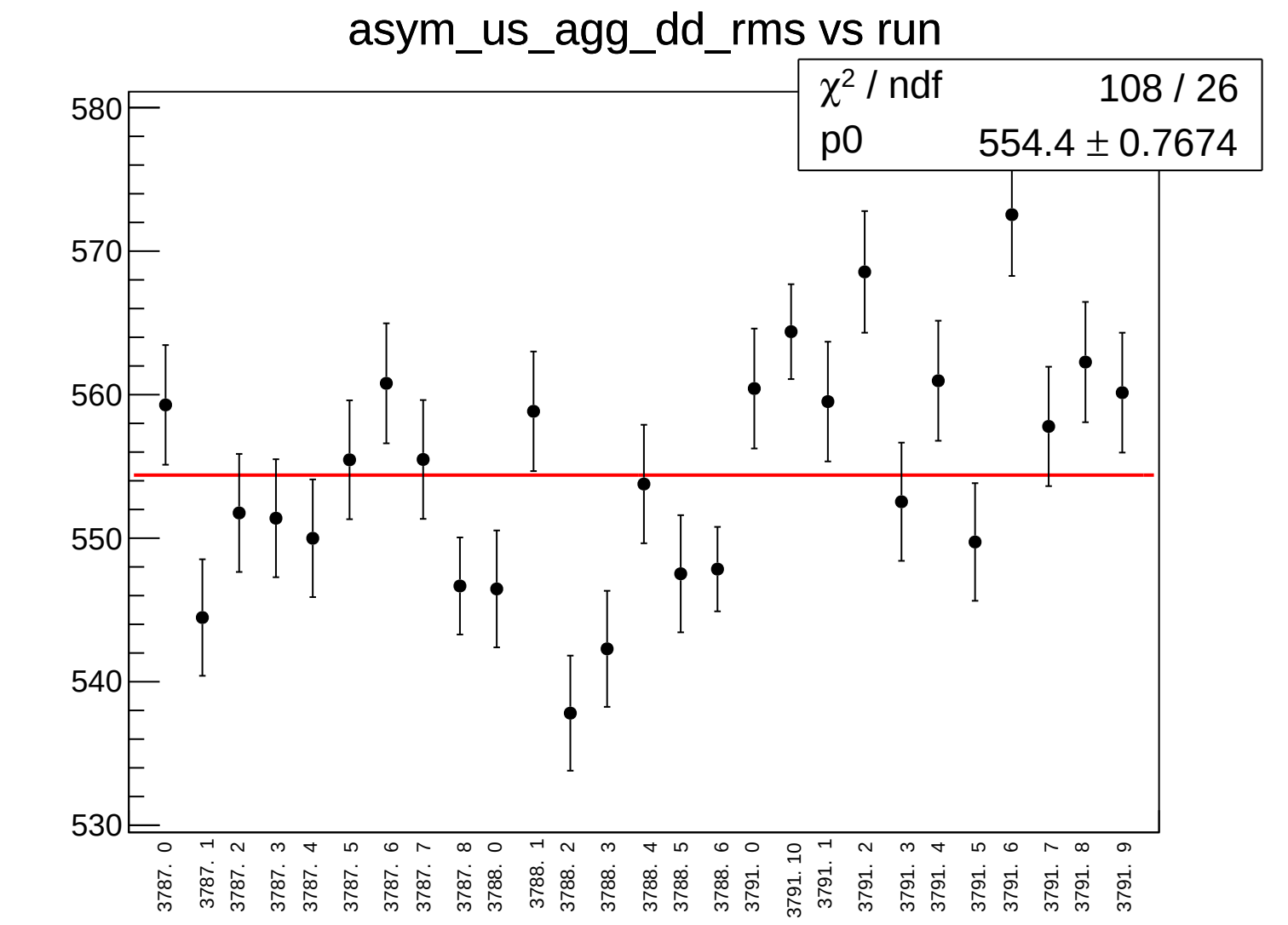
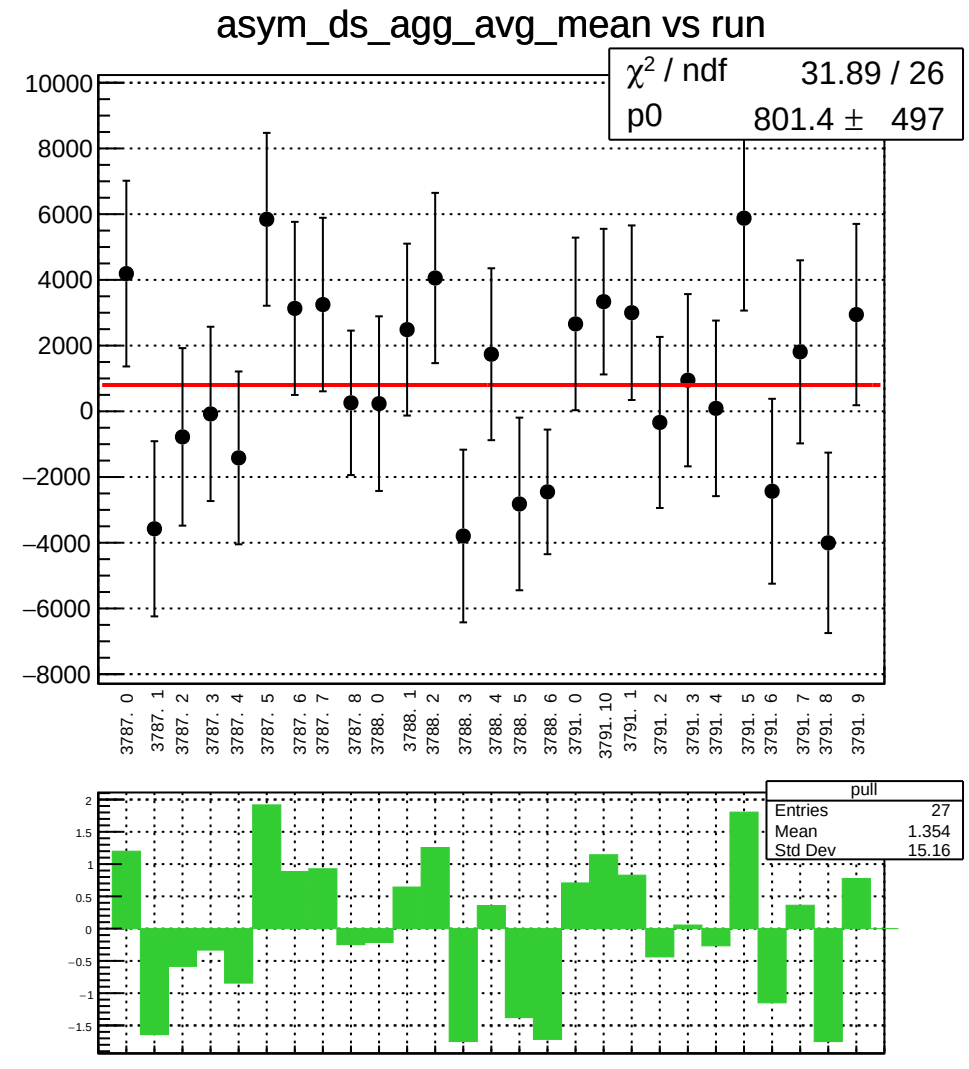
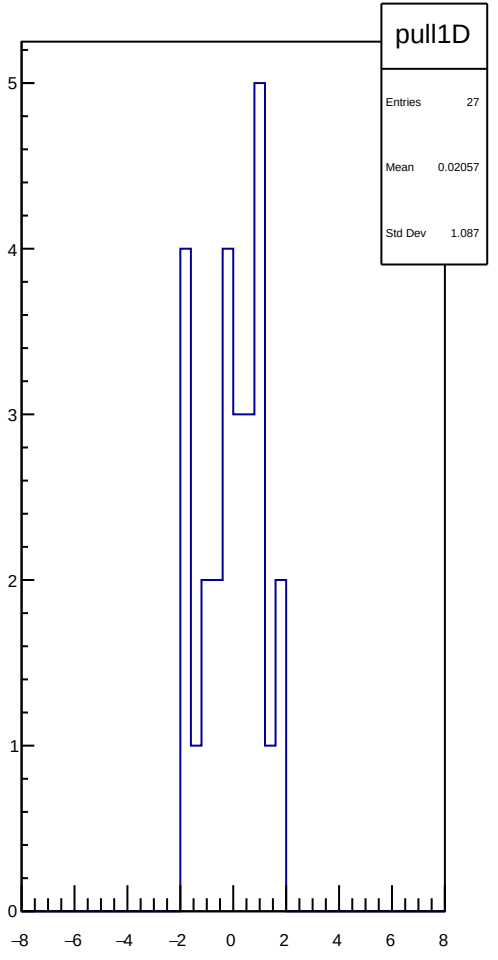
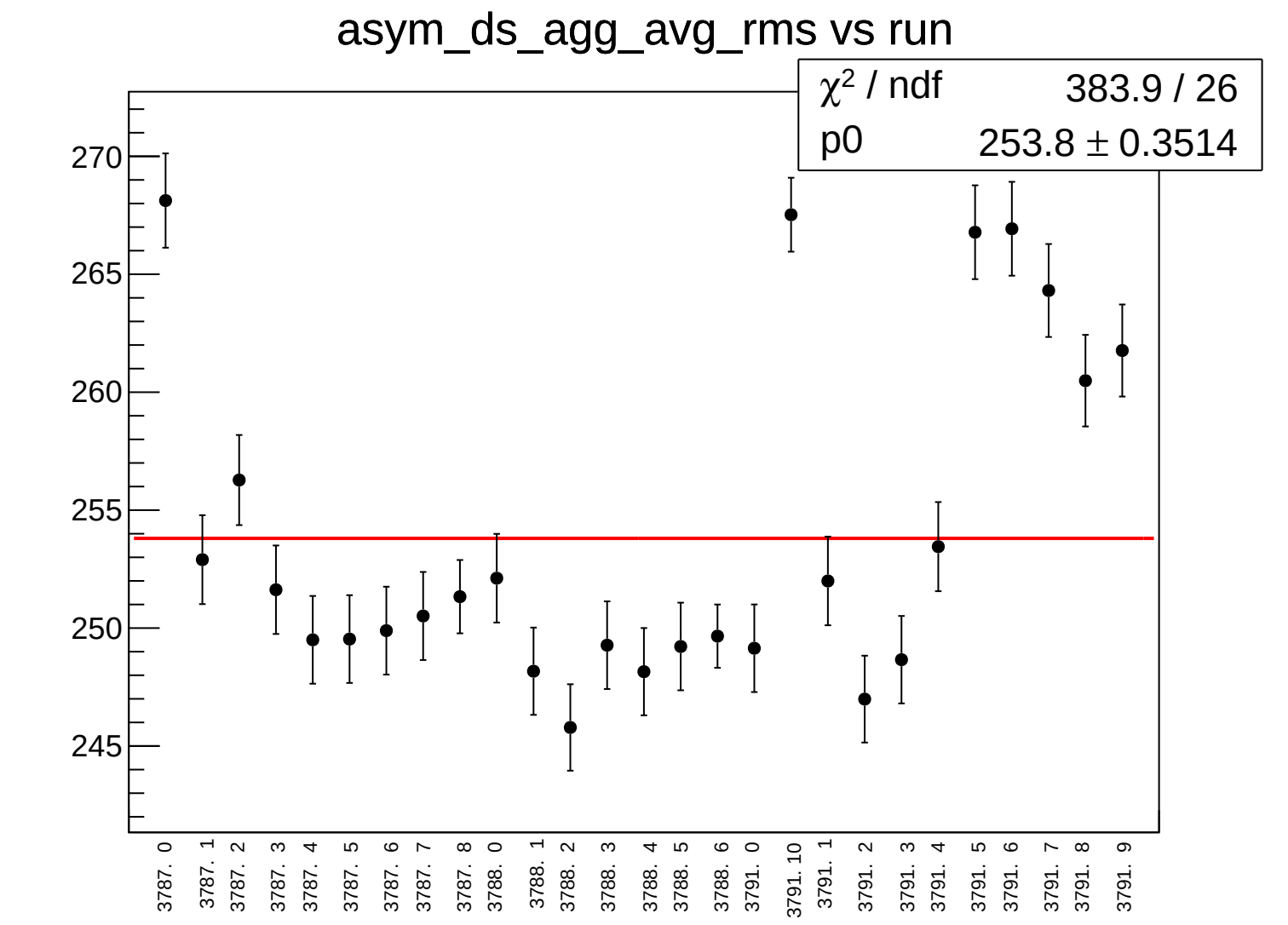
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 856.3
Std Dev 844.2
2
1
0
−1
−2

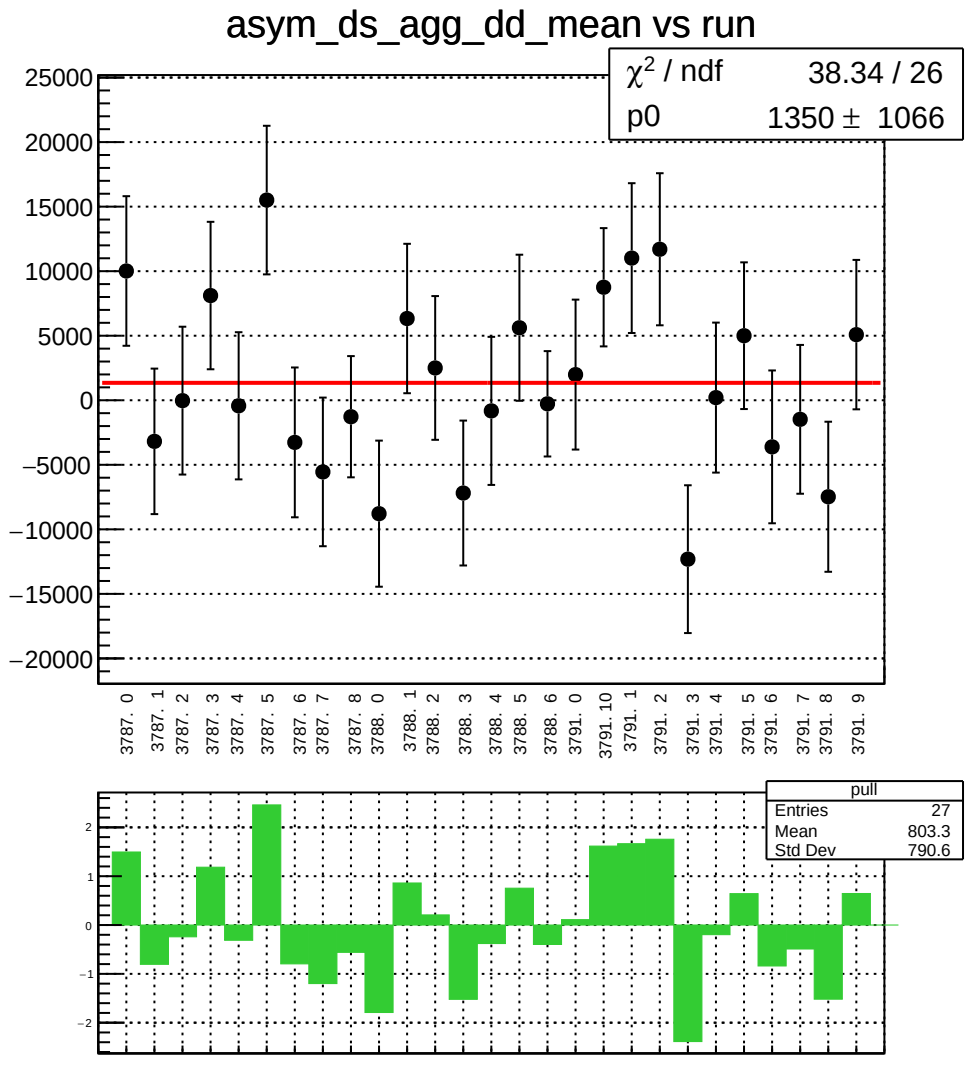

pull1D
Entries 27
Mean −0.001175
Std Dev 1.2
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

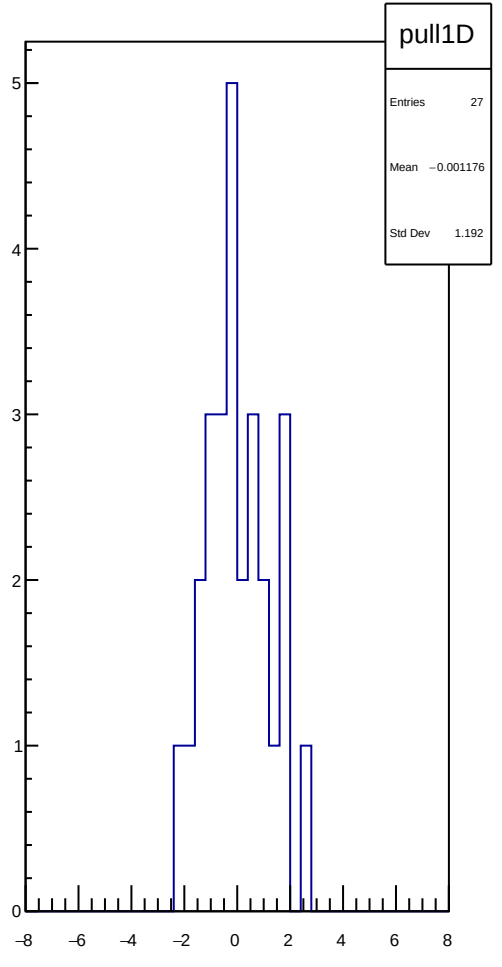

asym_us_agg_dd_rms vs run
χ² / ndf 108 / 26
p0 554.4 ± 0.7674
580
570
560
550
540
530
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

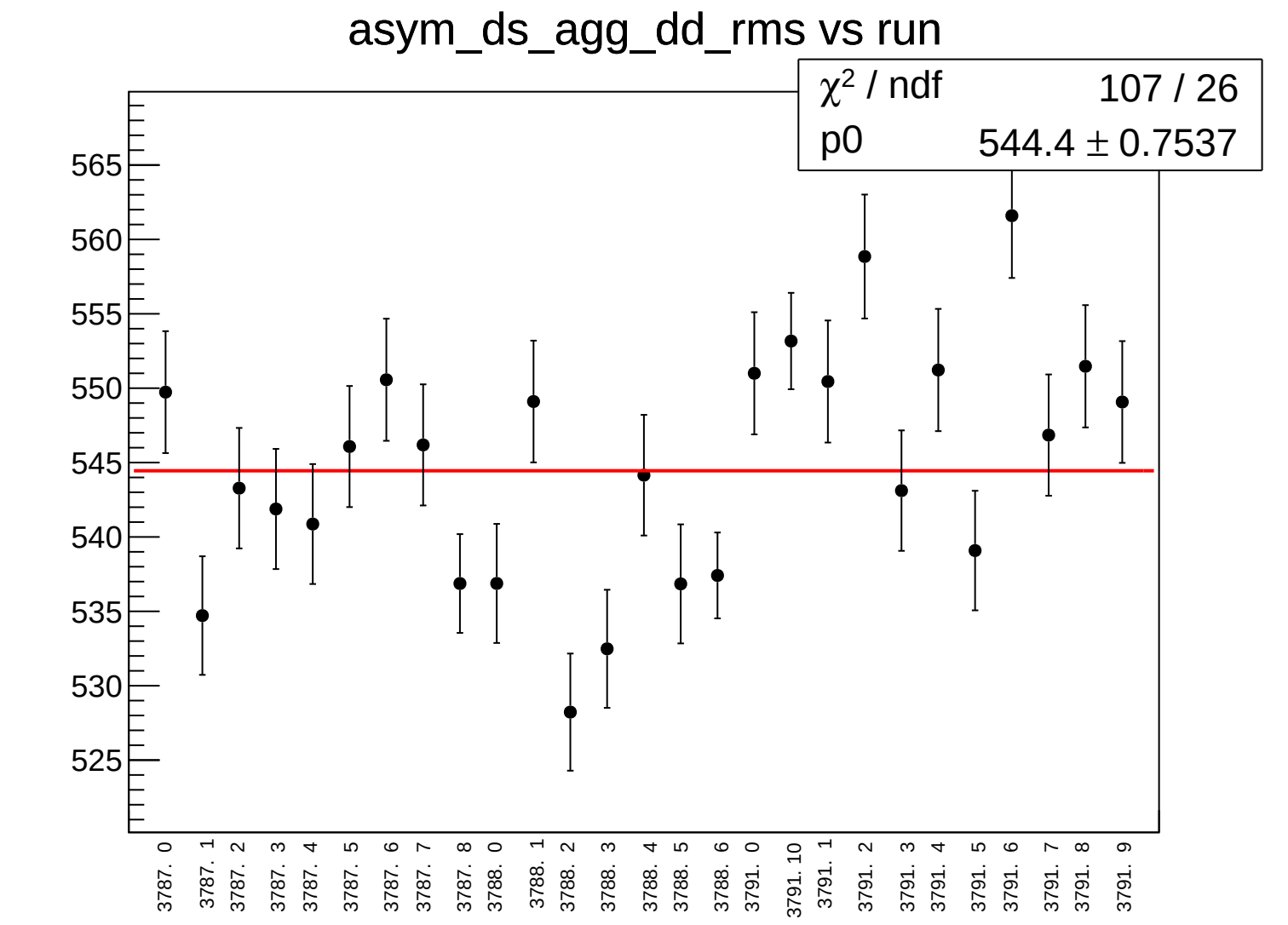

asym_ds_agg_avg_mean vs run
χ² / ndf 31.89 / 26
p0 801.4 ± 497
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 1.354
Std Dev 15.16
2
1.5
1
0.5
0
−0.5
−1
−1.5

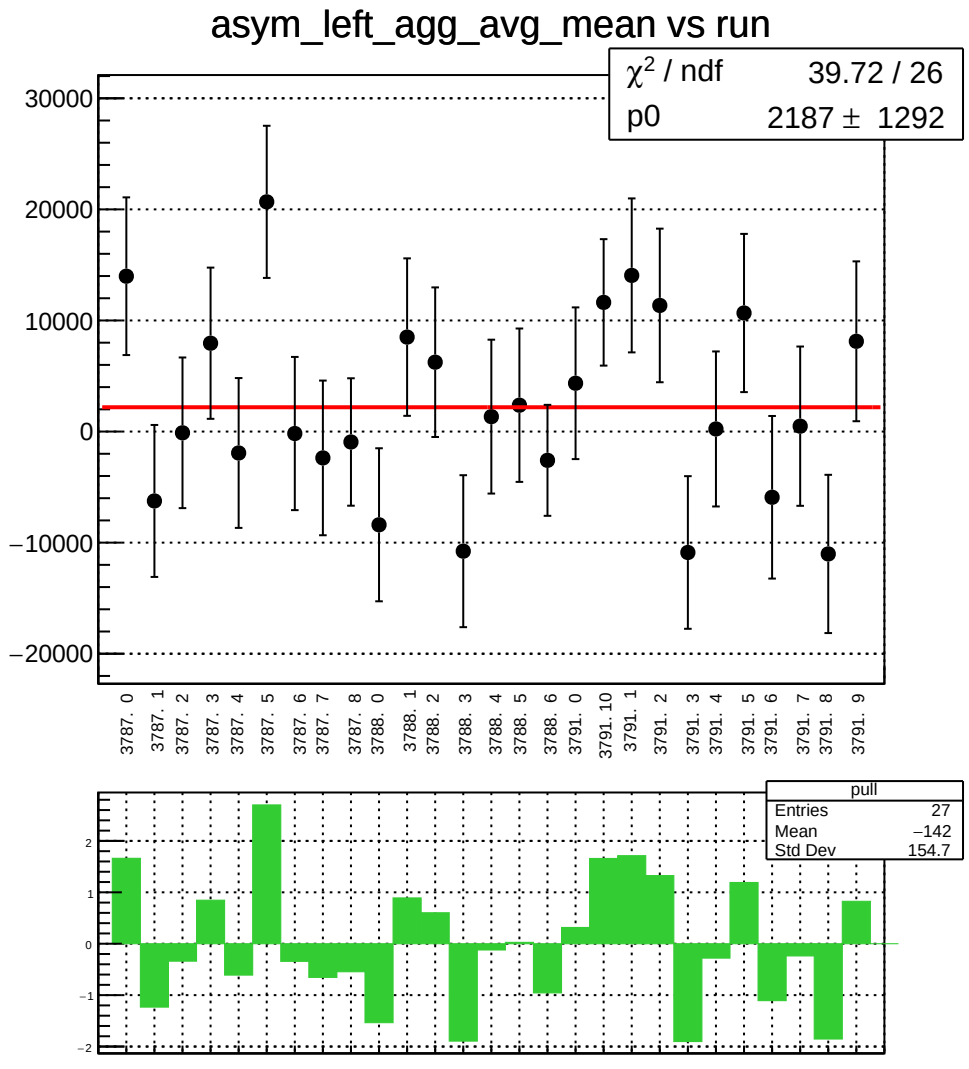

pull1D
Entries 27
Mean 0.02057
Std Dev 1.087
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

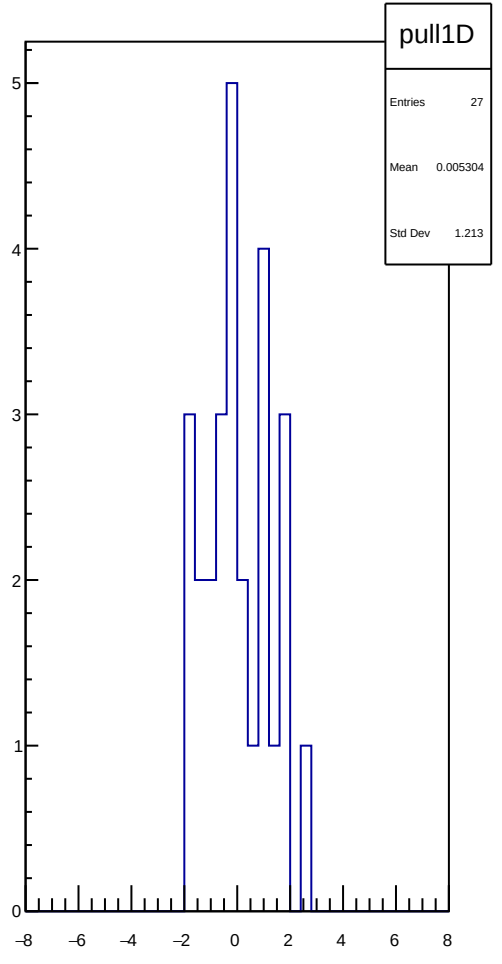

asym_ds_agg_avg_rms vs run
χ² / ndf 383.9 / 26
p0 253.8 ± 0.3514
270
265
260
255
250
245
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

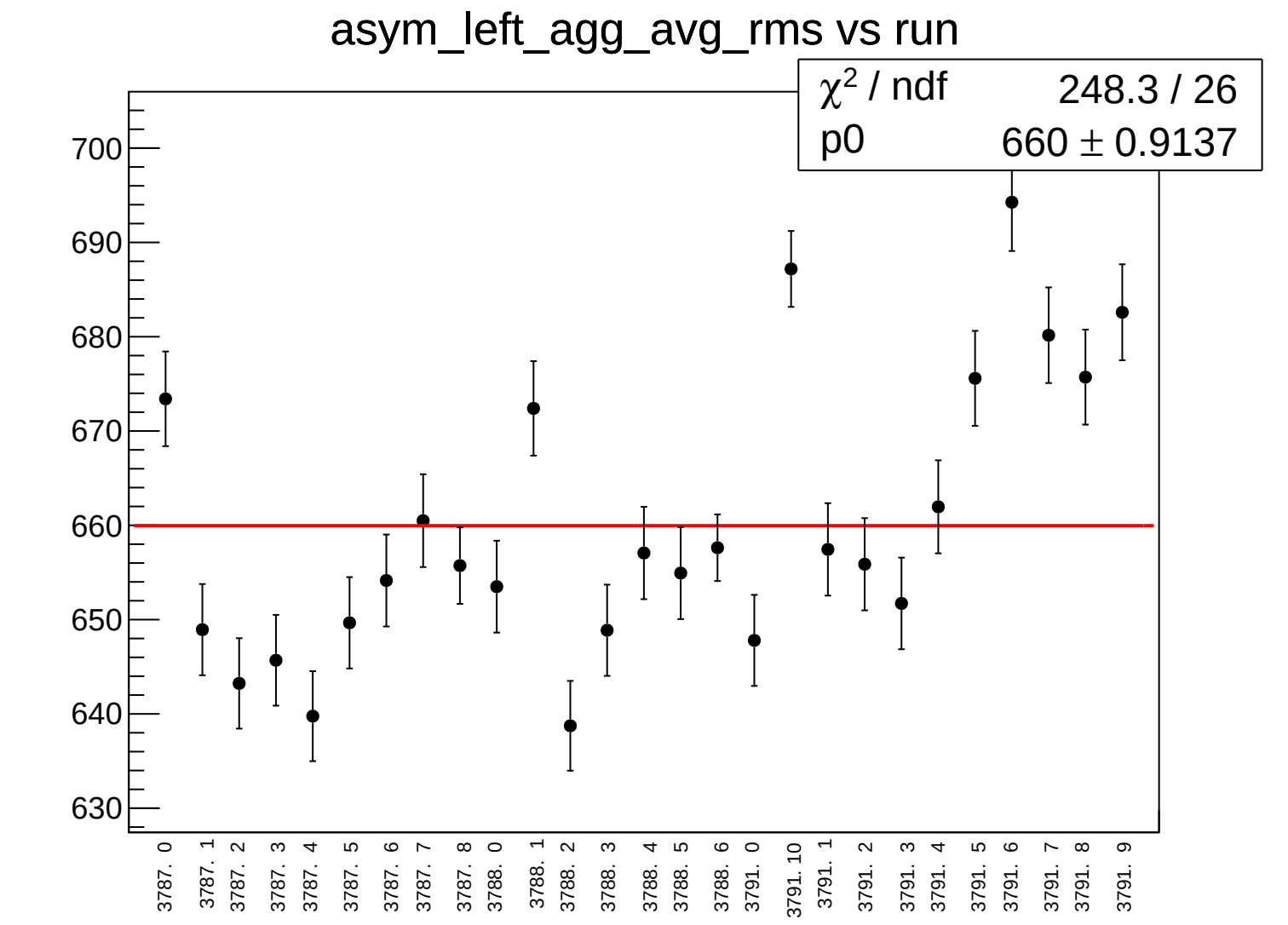

asym_ds_agg_dd_mean vs run
χ² / ndf 38.34 / 26
p0 1350 ± 1066
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 803.3
Std Dev 790.6
2
1
0
−1
−2

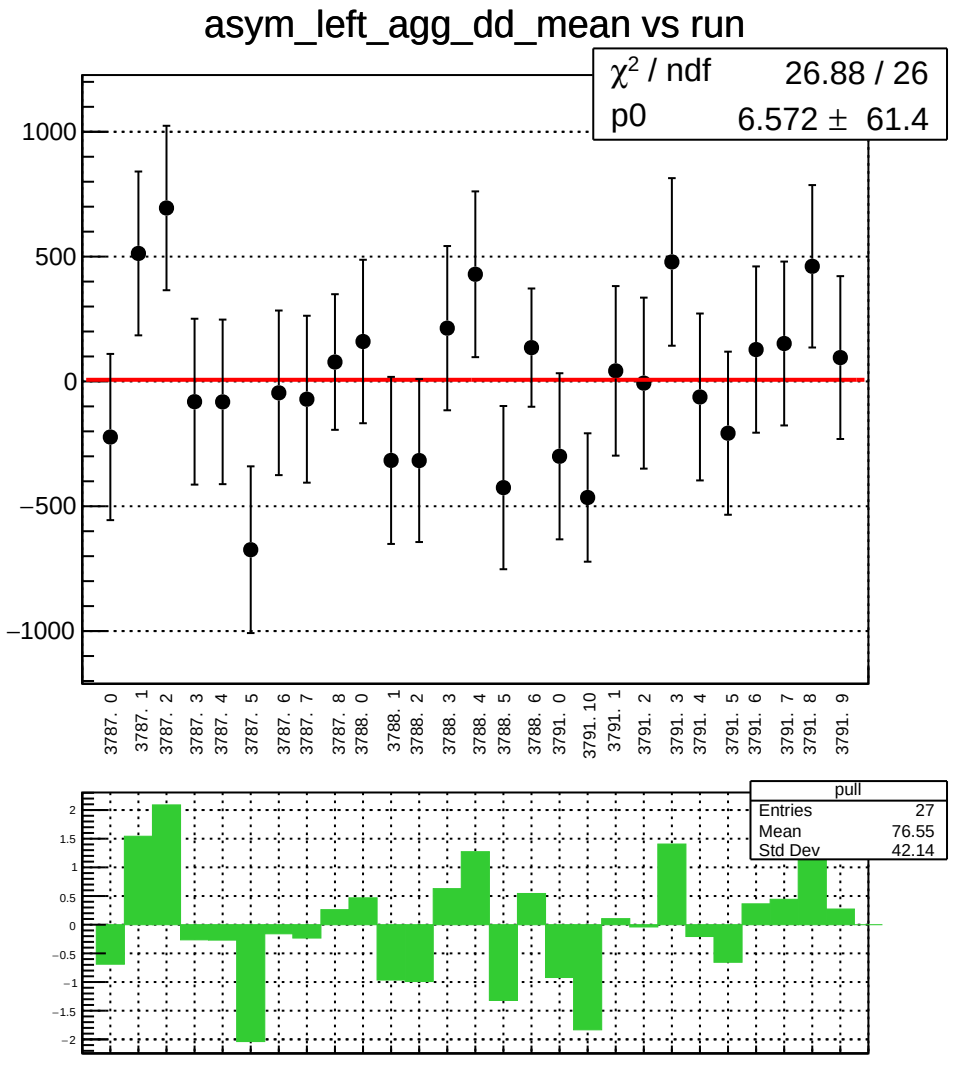

pull1D
Entries 27
Mean −0.001176
Std Dev 1.192
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

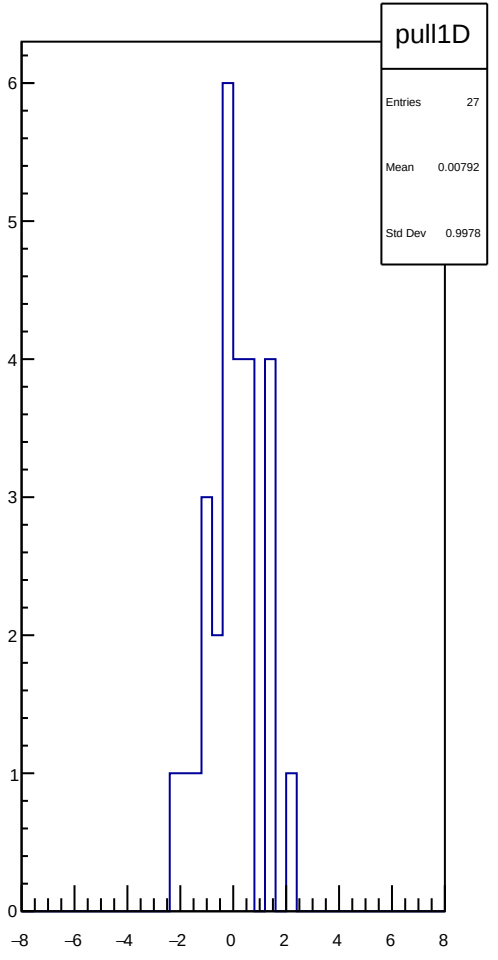

asym_ds_agg_dd_rms vs run
χ² / ndf 107 / 26
p0 544.4 ± 0.7537
565
560
555
550
545
540
535
530
525
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

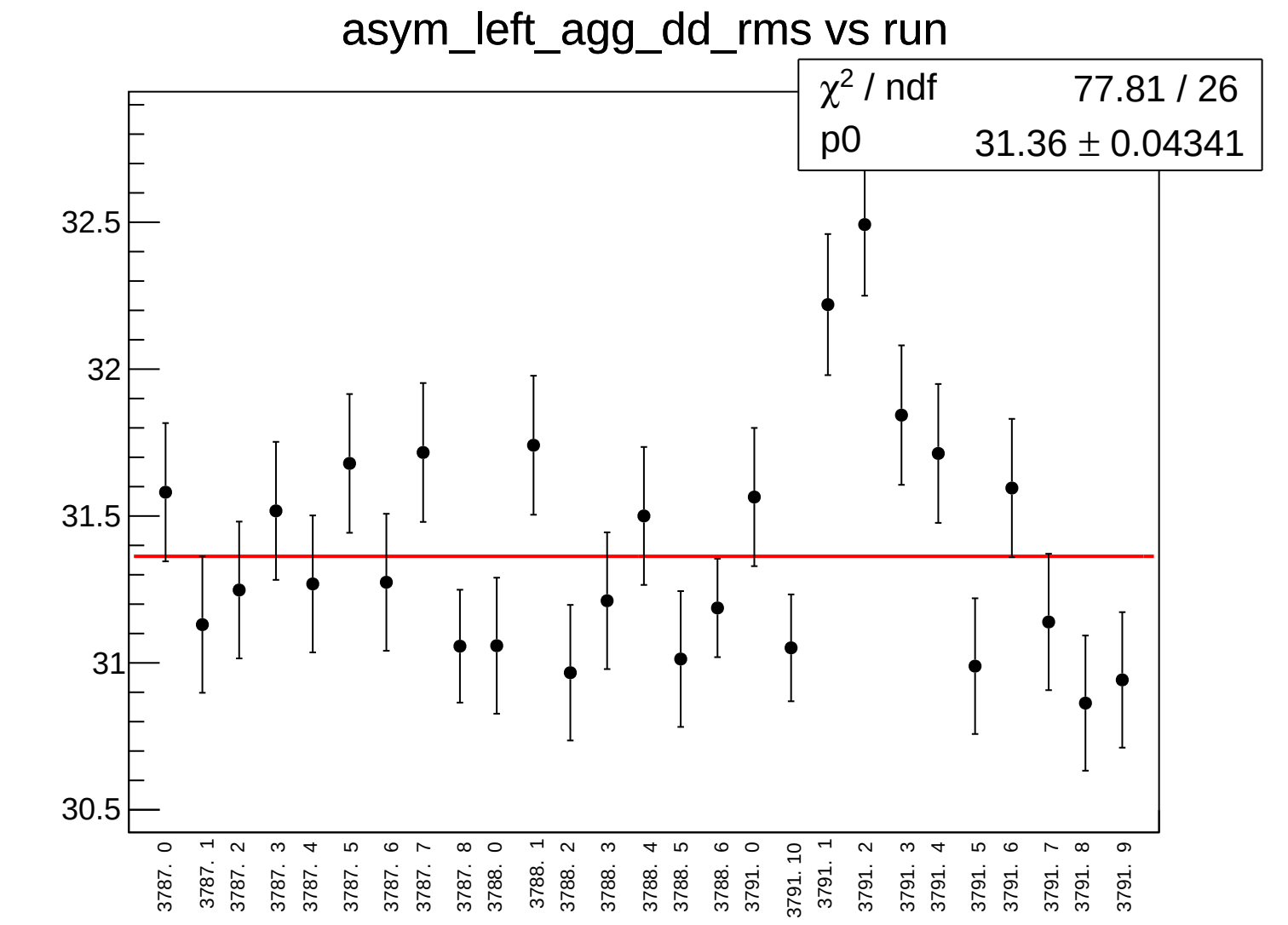

asym_left_agg_avg_mean vs run
χ² / ndf 39.72 / 26
p0 2187 ± 1292
30000
20000
10000
0
−10000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −142
Std Dev 154.7
2
1
0
−1
−2

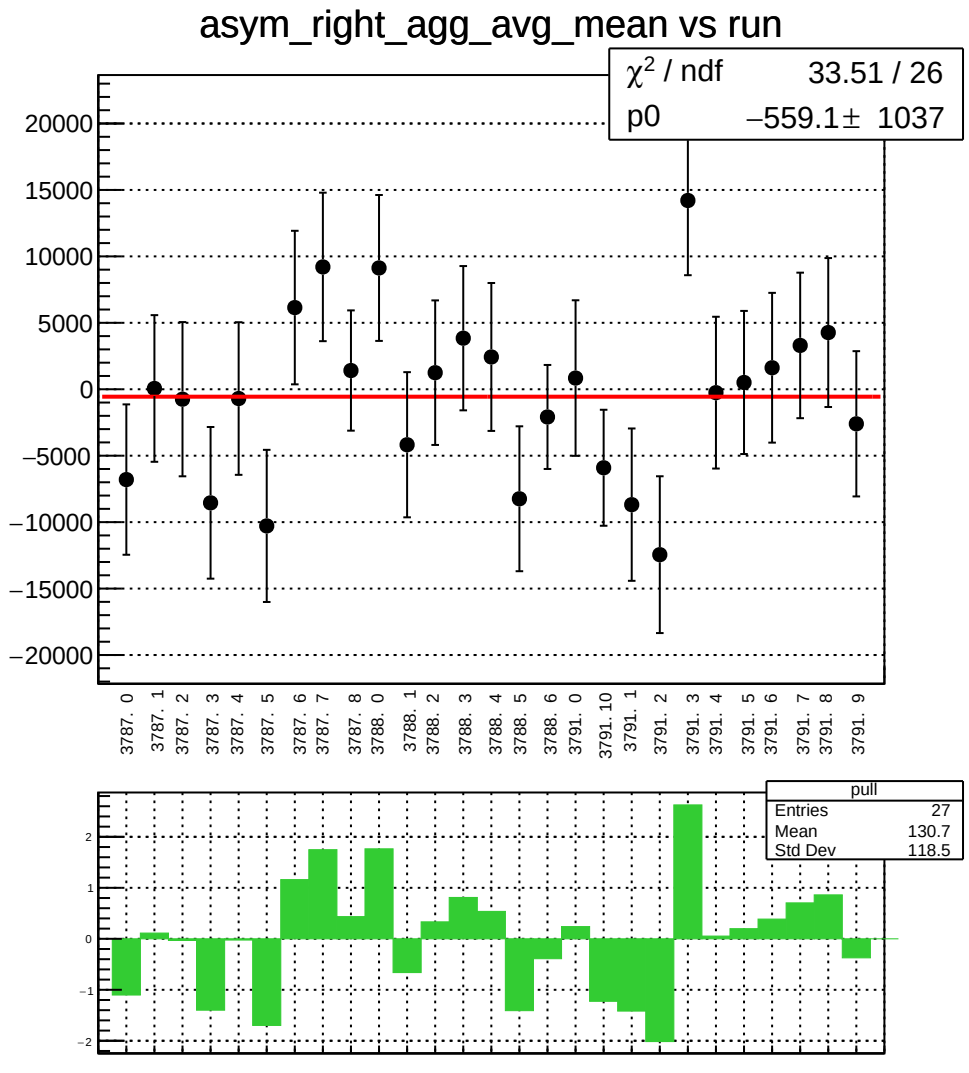

pull1D
Entries 27
Mean 0.005304
Std Dev 1.213
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

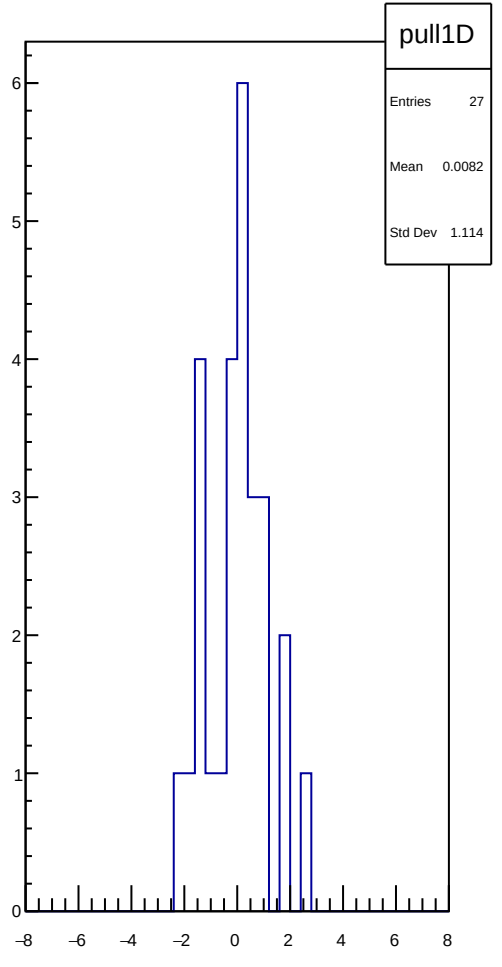

asym_left_agg_avg_rms vs run
χ² / ndf 248.3 / 26
p0 660 ± 0.9137
700
690
680
670
660
650
640
630
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

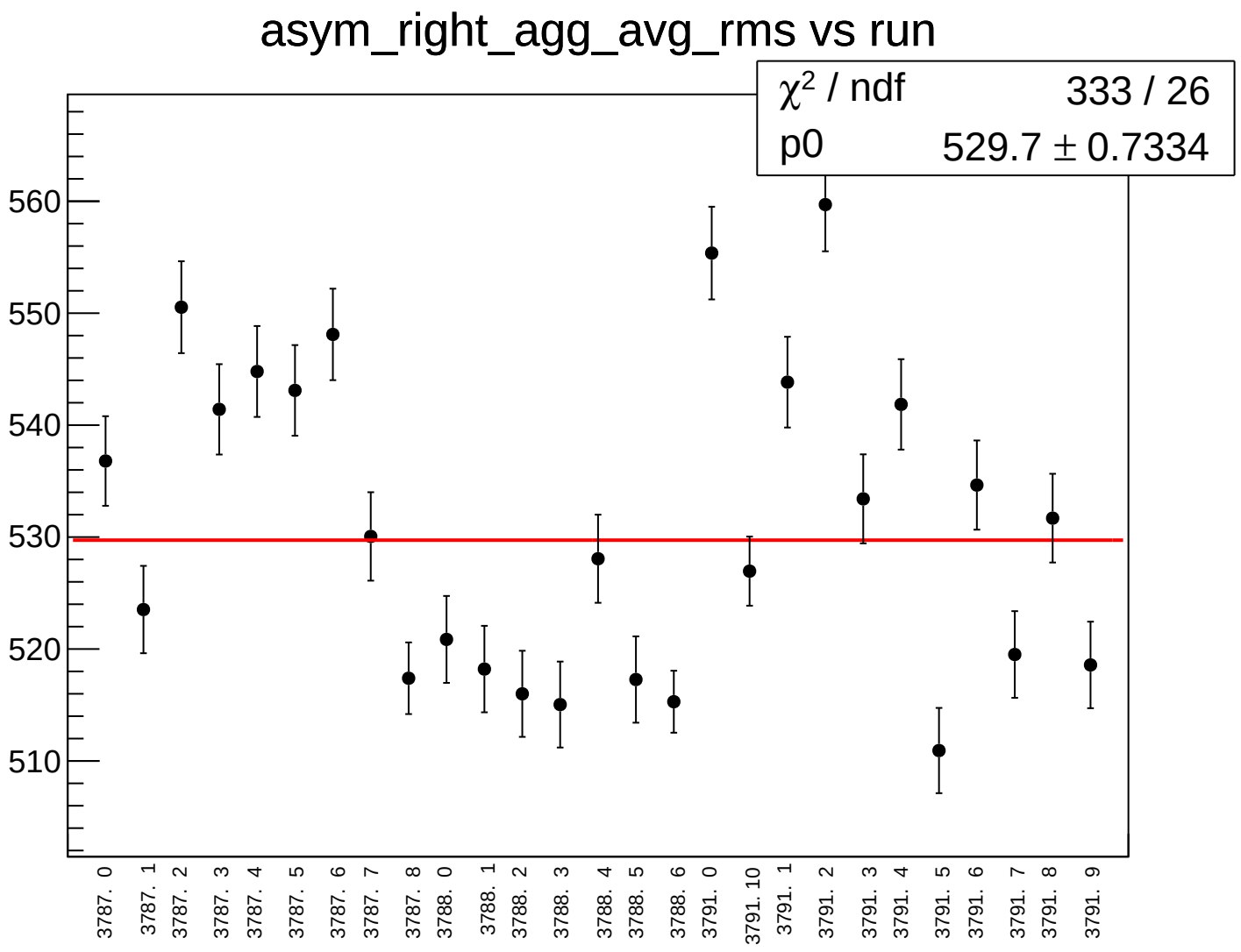

asym_left_agg_dd_mean vs run
χ² / ndf 26.88 / 26
p0 6.572 ± 61.4
1000
500
0
−500
−1000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 76.55
Std Dev 42.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

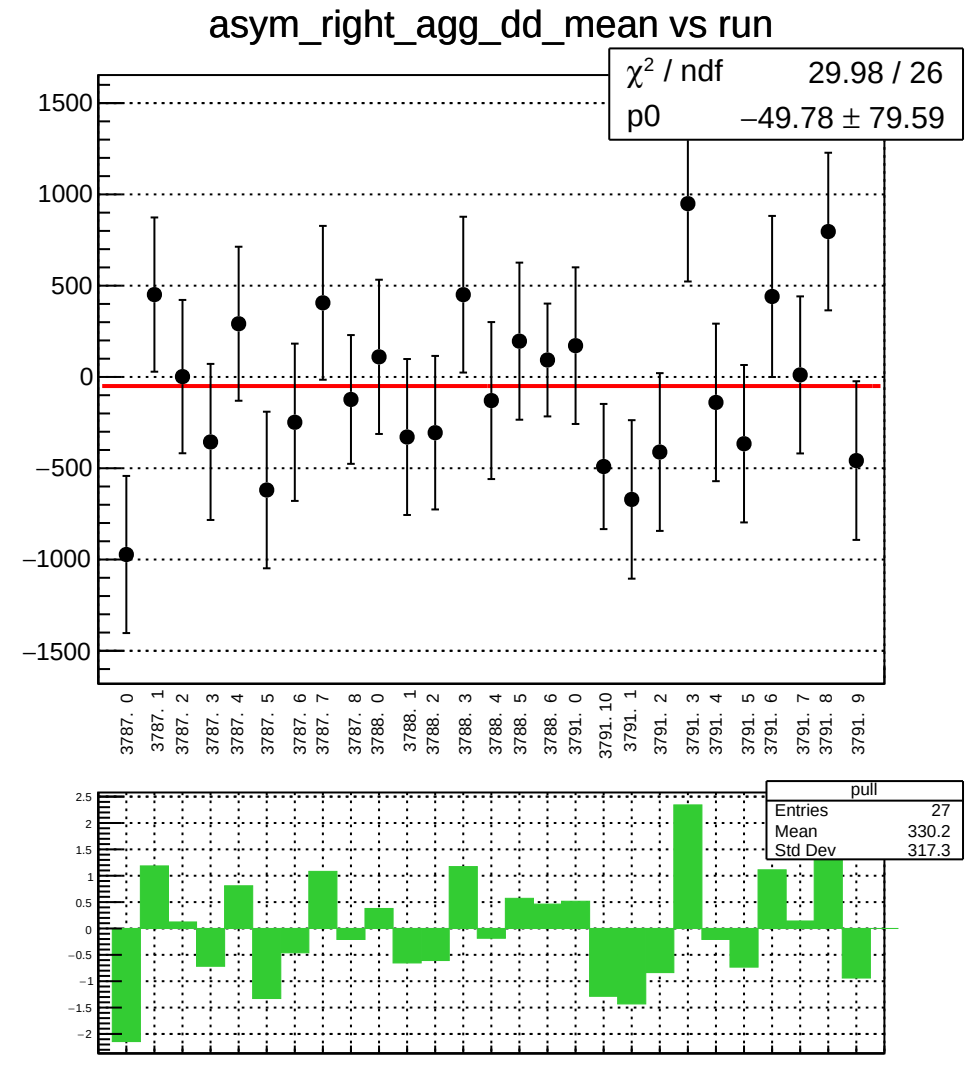

pull1D
Entries 27
Mean 0.00792
Std Dev 0.9978
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

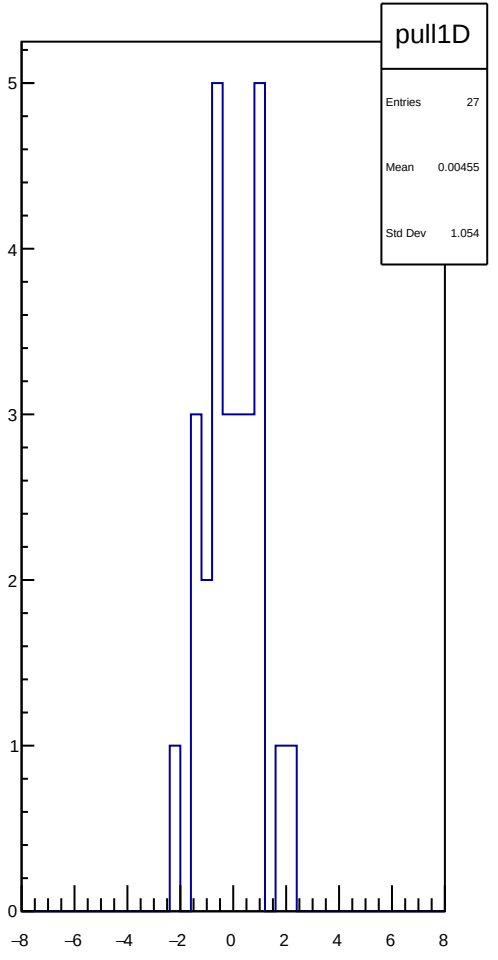

asym_left_agg_dd_rms vs run
χ² / ndf 77.81 / 26
p0 31.36 ± 0.04341
32.5
32
31.5
31
30.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

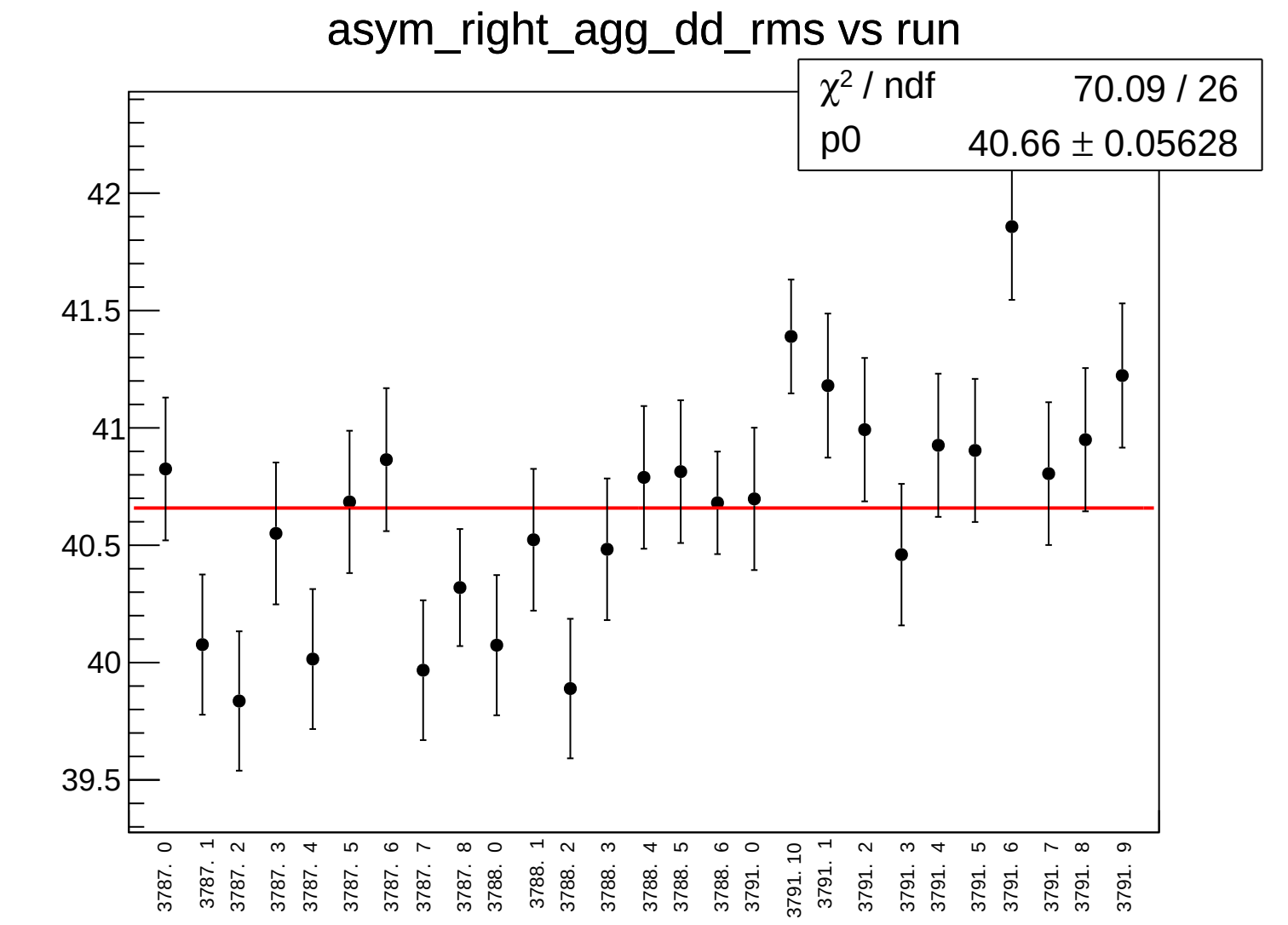

asym_right_agg_avg_mean vs run
χ² / ndf 33.51 / 26
p0 −559.1± 1037
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 130.7
Std Dev 118.5
2
1
0
−1
−2

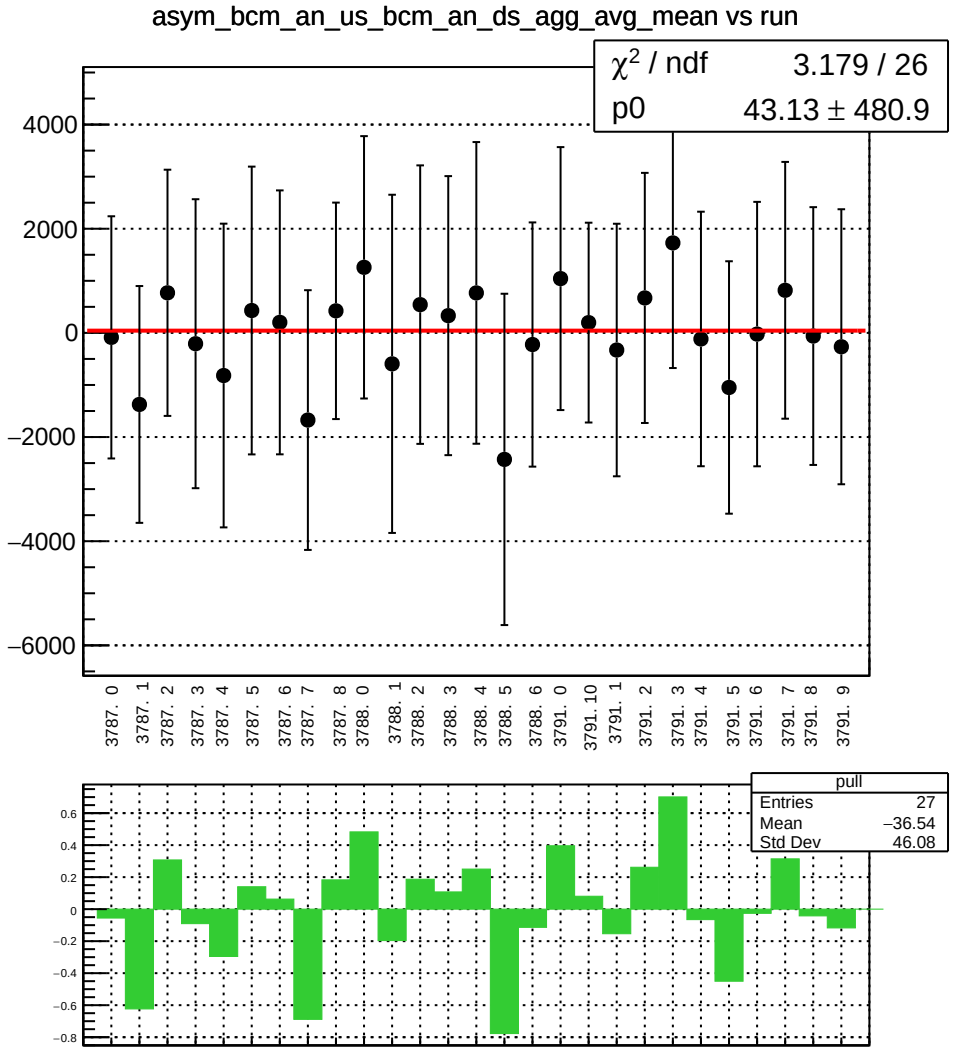

pull1D
Entries 27
Mean 0.0082
Std Dev 1.114
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

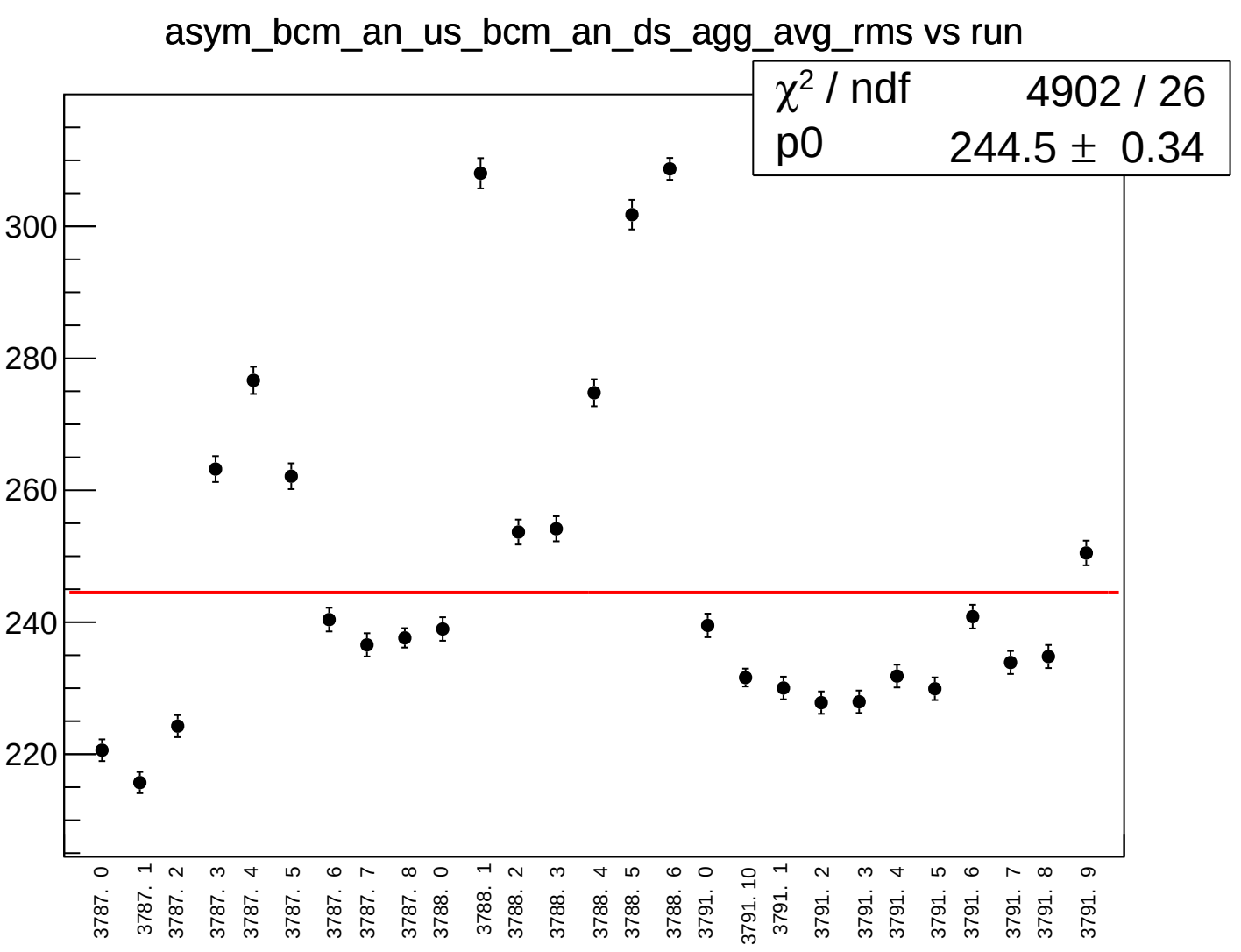

asym_right_agg_avg_rms vs run
χ² / ndf 333 / 26
p0 529.7 ± 0.7334
560
550
540
530
520
510
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

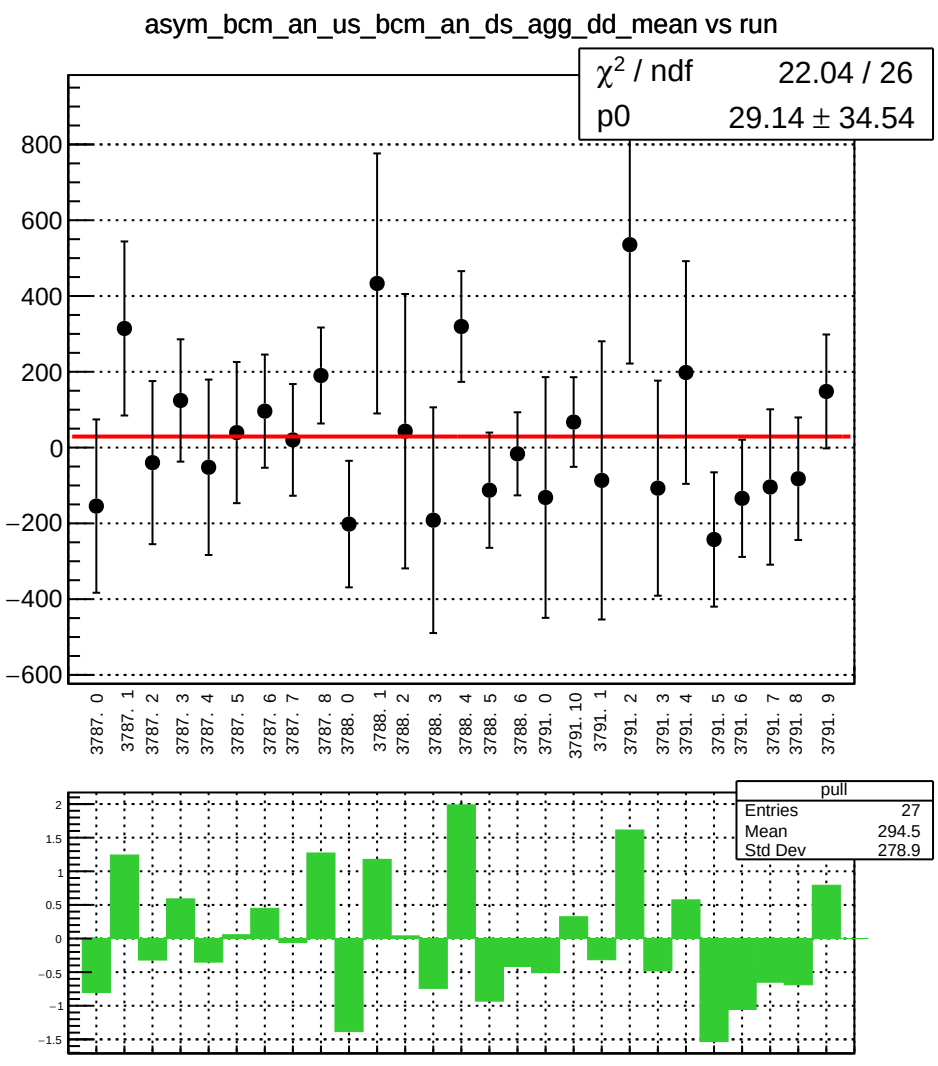

asym_right_agg_dd_mean vs run
χ² / ndf 29.98 / 26
p0 −49.78 ± 79.59
1500
1000
500
0
−500
−1000
−1500
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 330.2
Std Dev 317.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

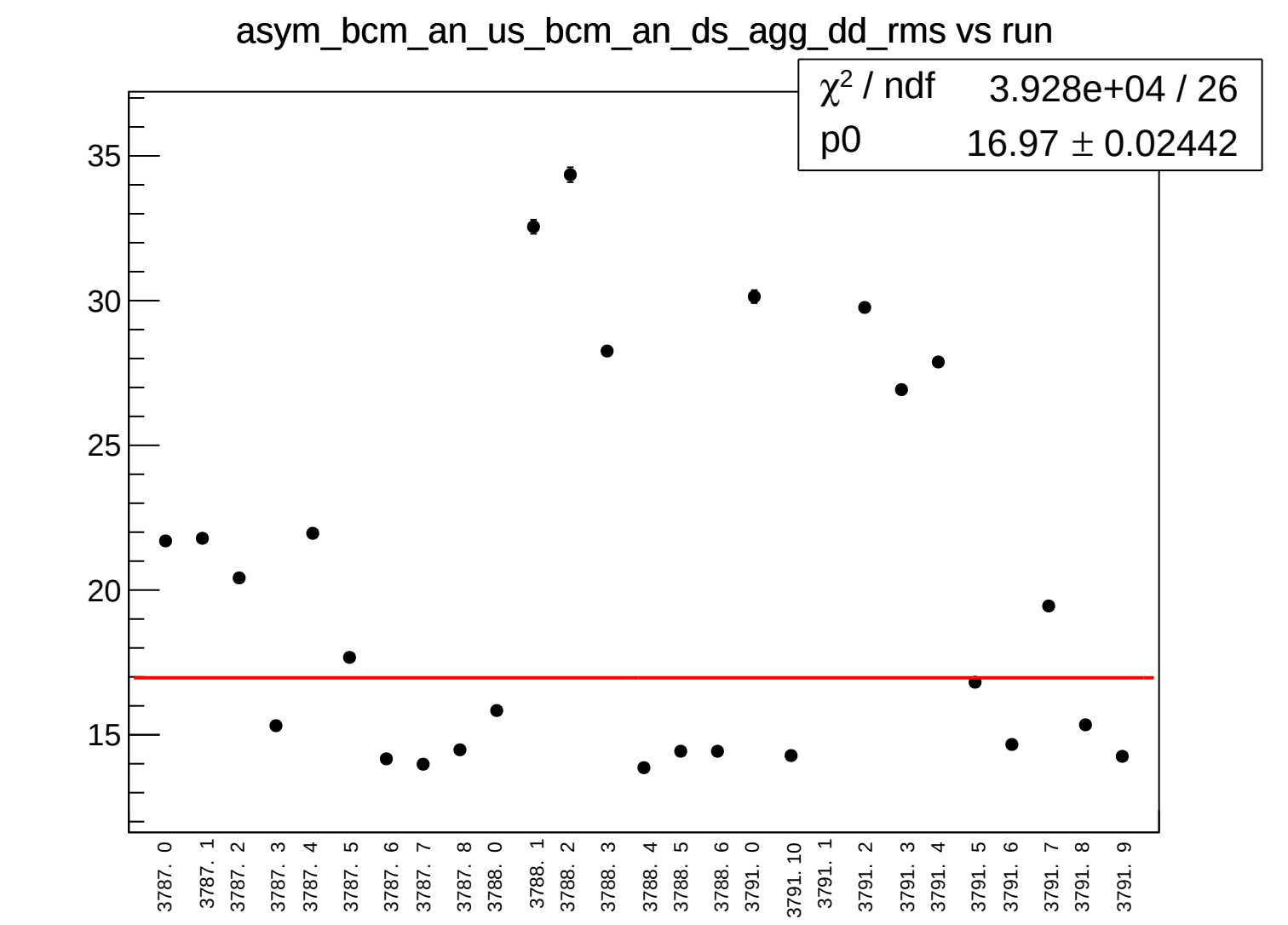

pull1D
Entries 27
Mean 0.00455
Std Dev 1.054
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

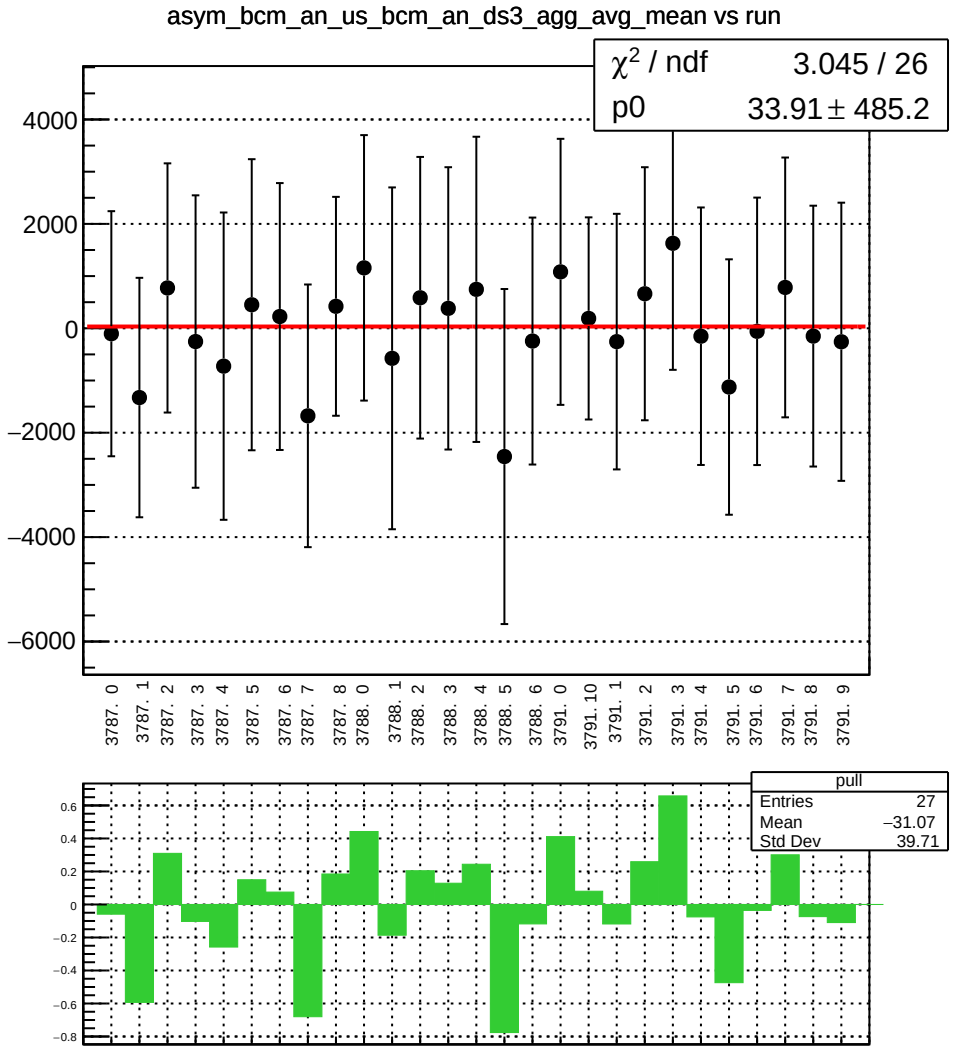

asym_right_agg_dd_rms vs run
χ² / ndf 70.09 / 26
p0 40.66 ± 0.05628
42
41.5
41
40.5
40
39.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

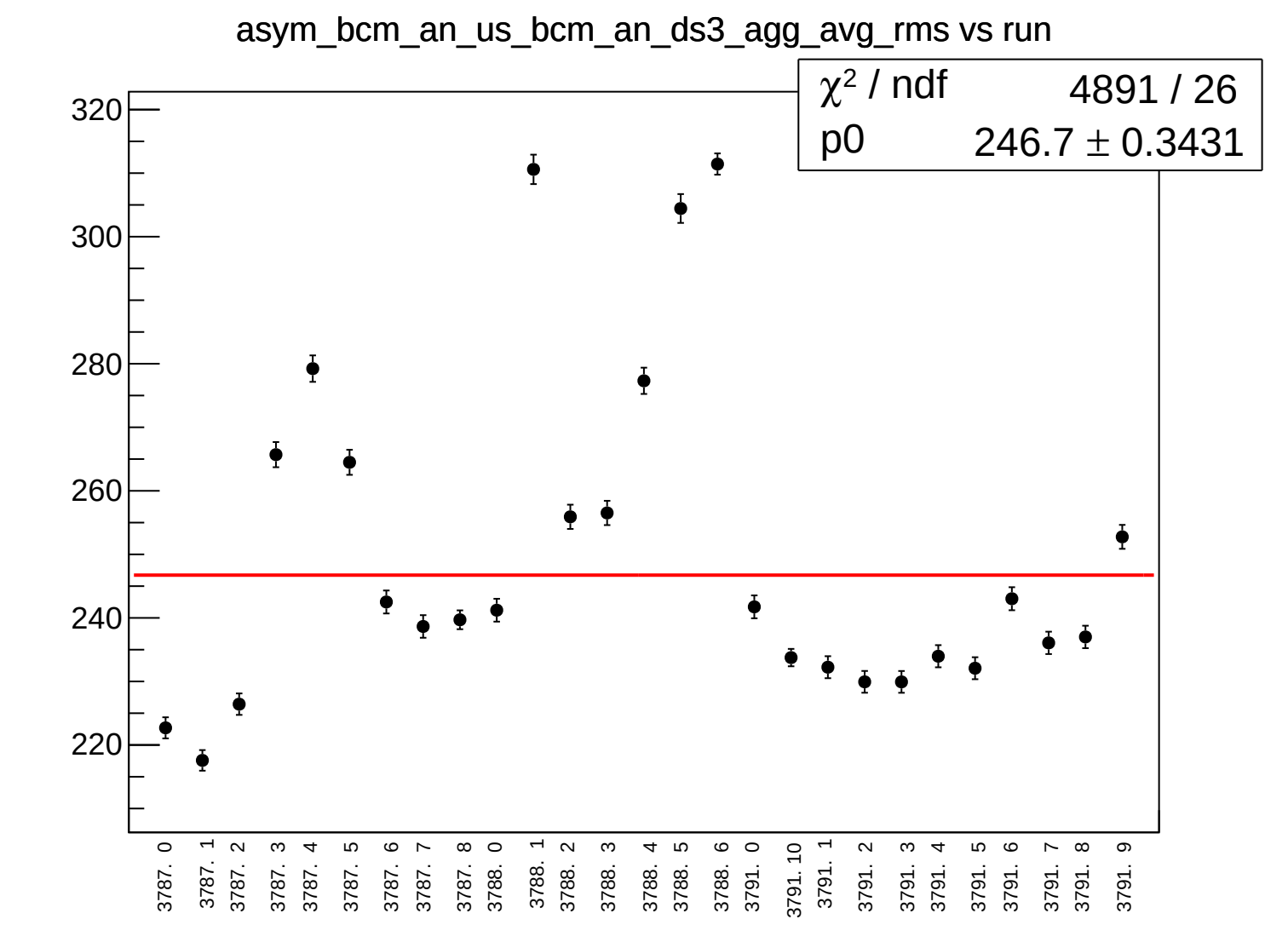

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.179 / 26
p0 43.13 ± 480.9
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −36.54
Std Dev 46.08
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 27
Mean −0.008163
Std Dev 0.343
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

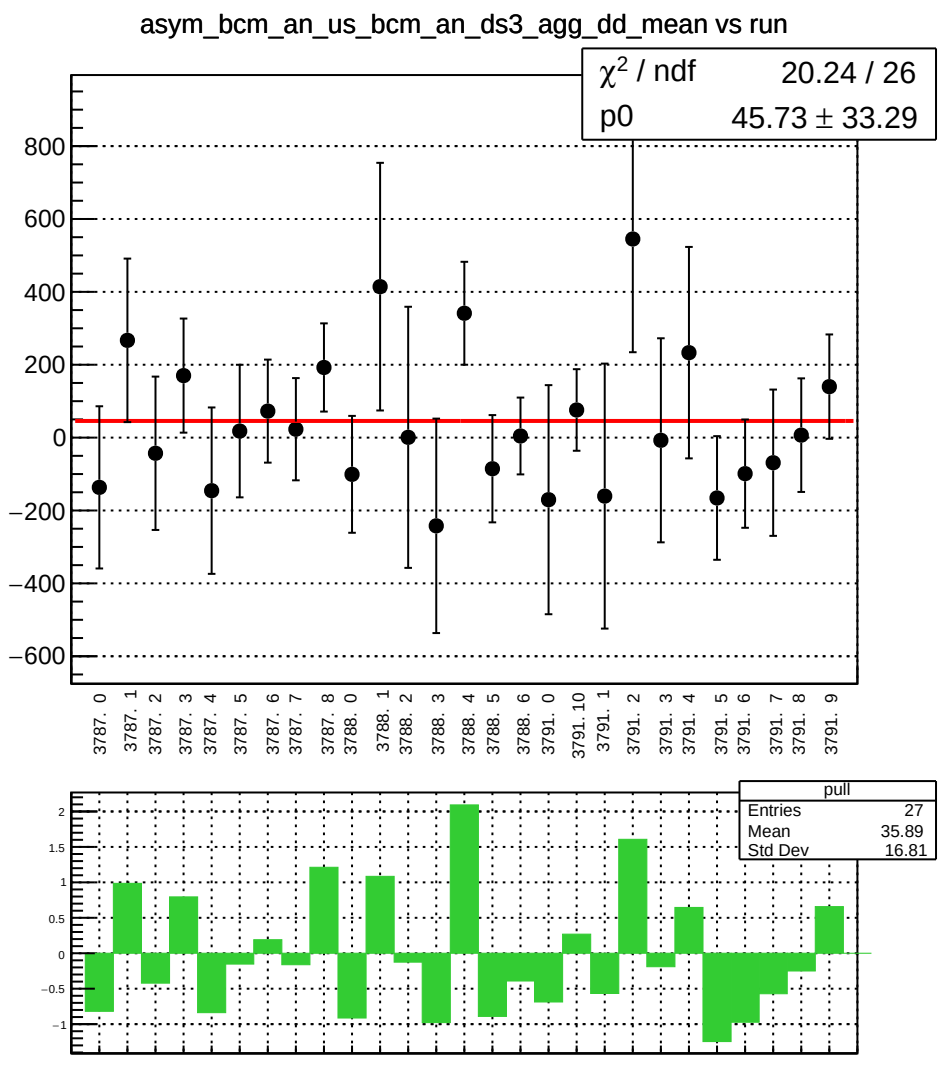

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4902 / 26
p0 244.5 ± 0.34
300
280
260
240
220
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

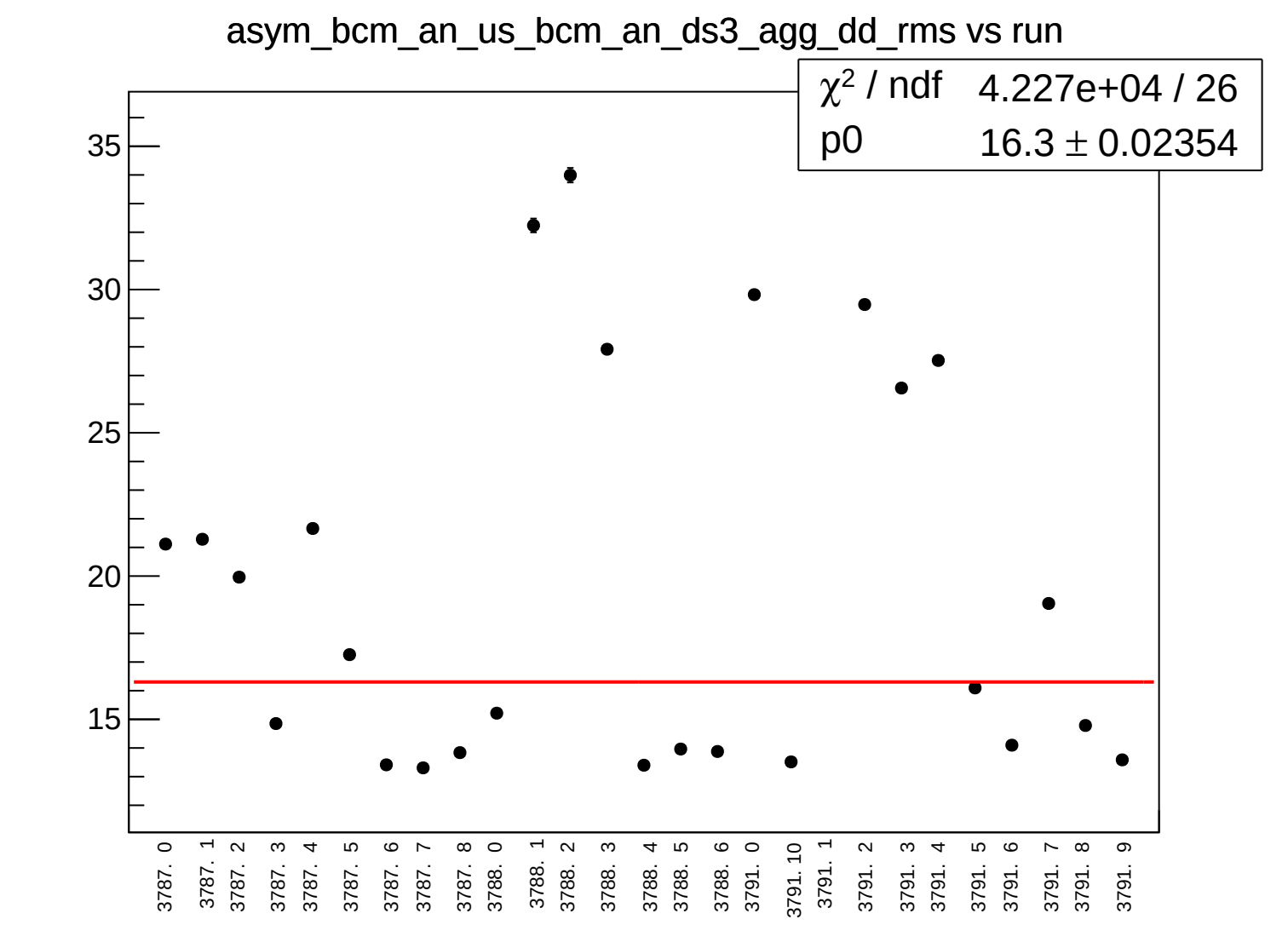

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 22.04 / 26
p0 29.14 ± 34.54
800
600
400
200
0
−200
−400
−600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 294.5
Std Dev 278.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean −0.004311
Std Dev 0.9034
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.928e+04 / 26
p0 16.97 ± 0.02442
35
30
25
20
15
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 3.045 / 26
p0 33.91 ± 485.2
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −31.07
Std Dev 39.71
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 27
Mean −0.007811
Std Dev 0.3357
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4891 / 26
p0 246.7 ± 0.3431
320
300
280
260
240
220
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 20.24 / 26
p0 45.73 ± 33.29
800
600
400
200
0
−200
−400
−600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 35.89
Std Dev 16.81
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean −0.02352
Std Dev 0.8655
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 4.227e+04 / 26
p0 16.3 ± 0.02354
35
30
25
20
15
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
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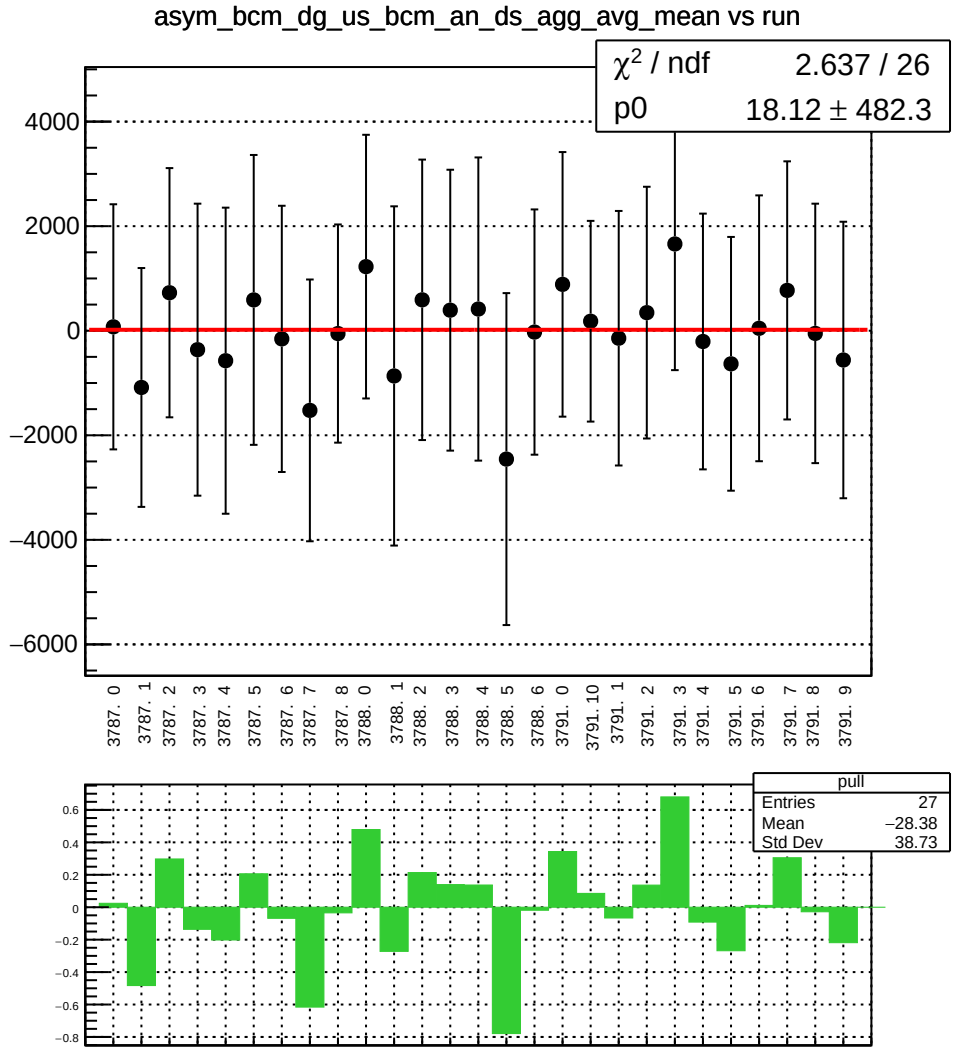
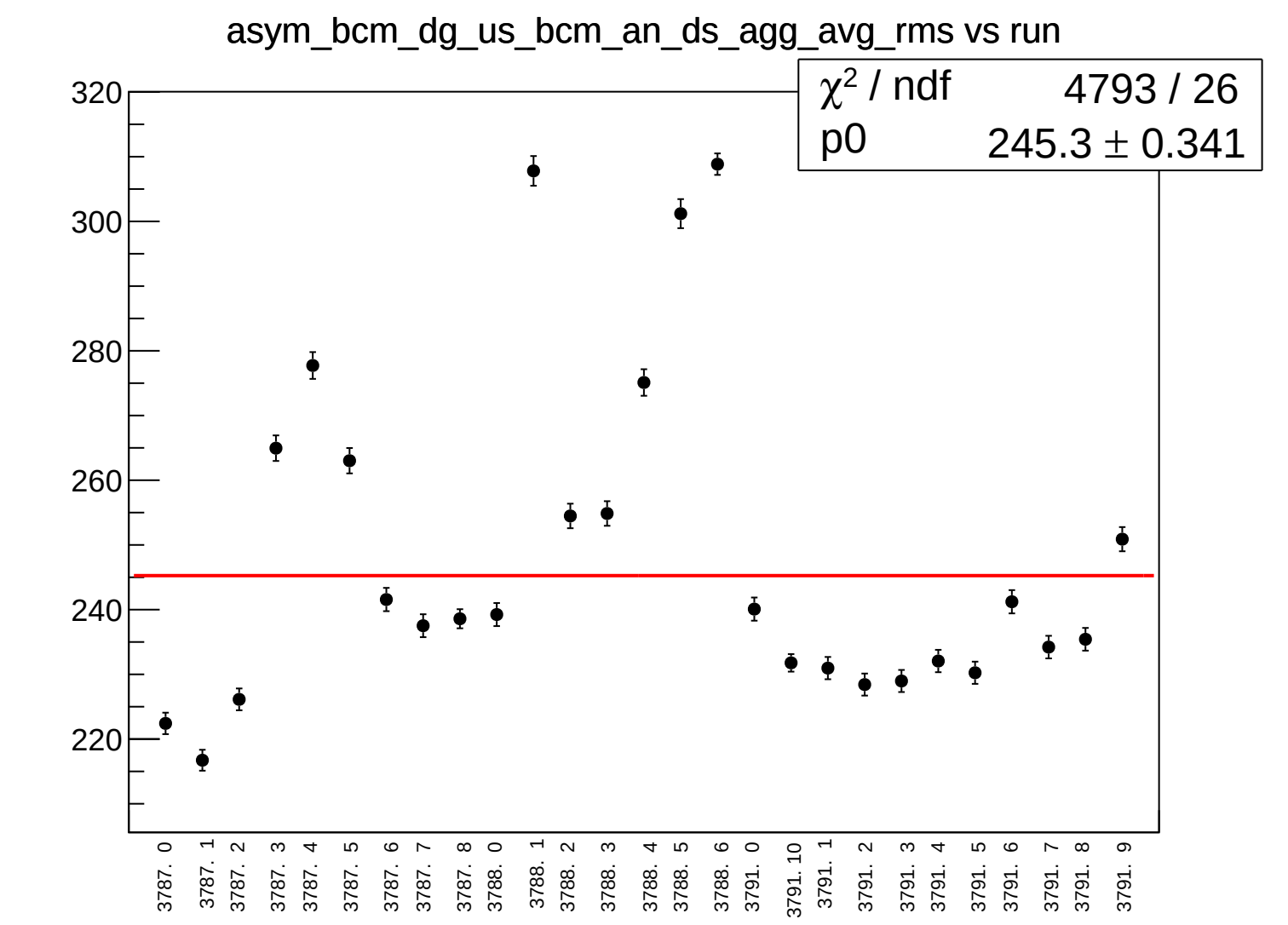
3791. 8
3791. 9


asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 2.637 / 26
p0 18.12 ± 482.3
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −28.38
Std Dev 38.73
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 27
Mean −0.008284
Std Dev 0.3124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4793 / 26
p0 245.3 ± 0.341
320
300
280
260
240
220
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
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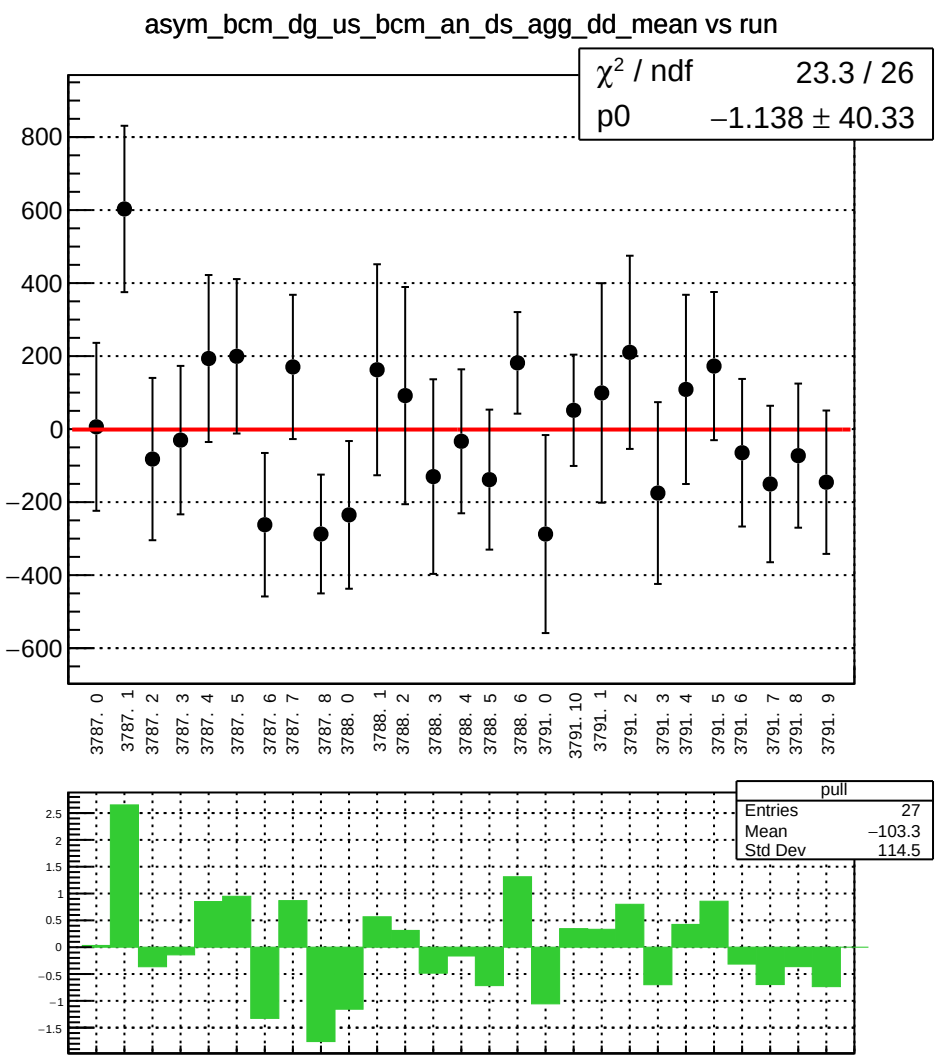
3791. 8
3791. 9


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 23.3 / 26
p0 −1.138 ± 40.33
800
600
400
200
0
−200
−400
−600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −103.3
Std Dev 114.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean 0.01214
Std Dev 0.929
5
4
3
2
1
0
−8
−6
−4
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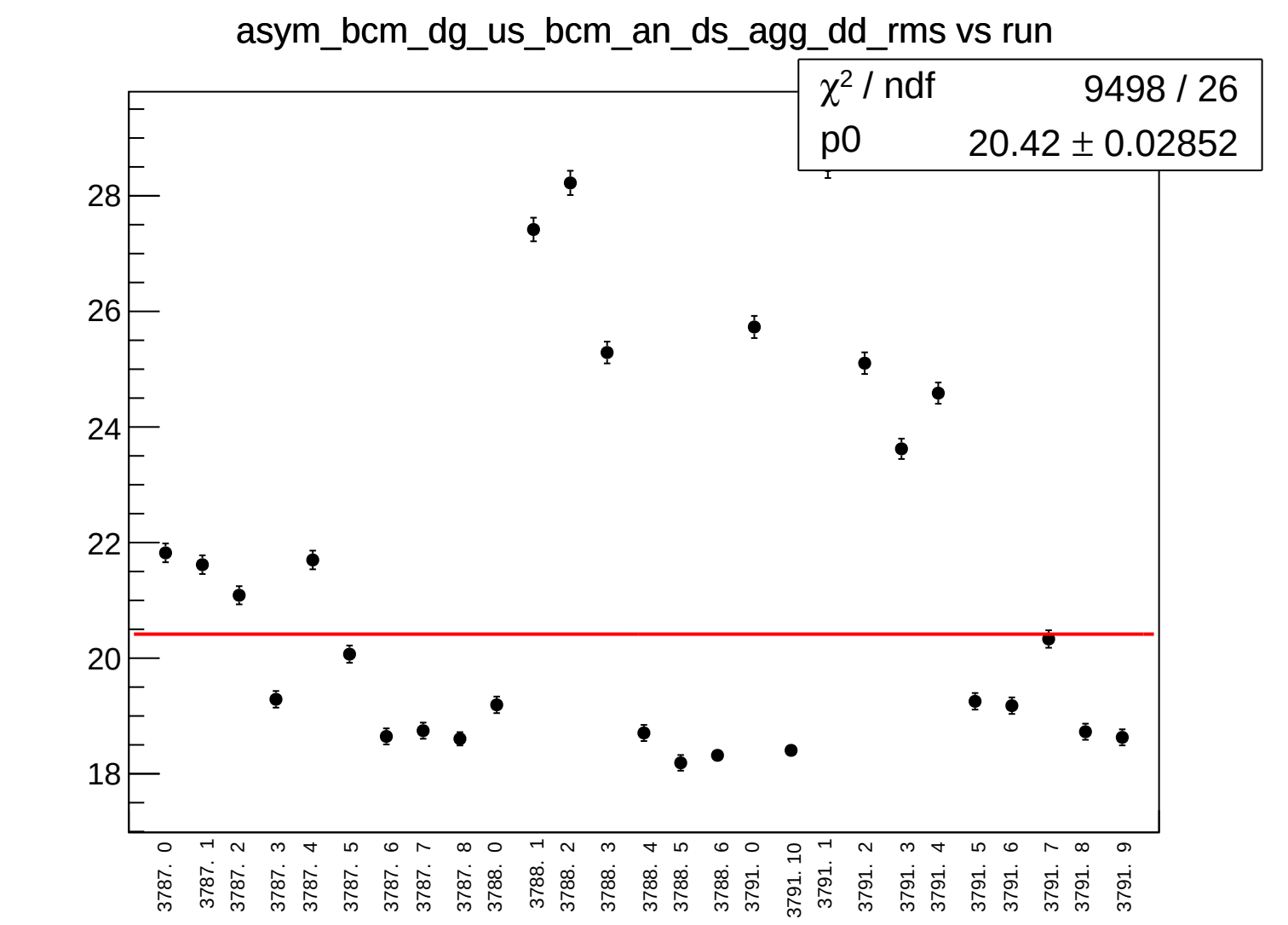
2
4
6
8


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9498 / 26
p0 20.42 ± 0.02852
28
26
24
22
20
18
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
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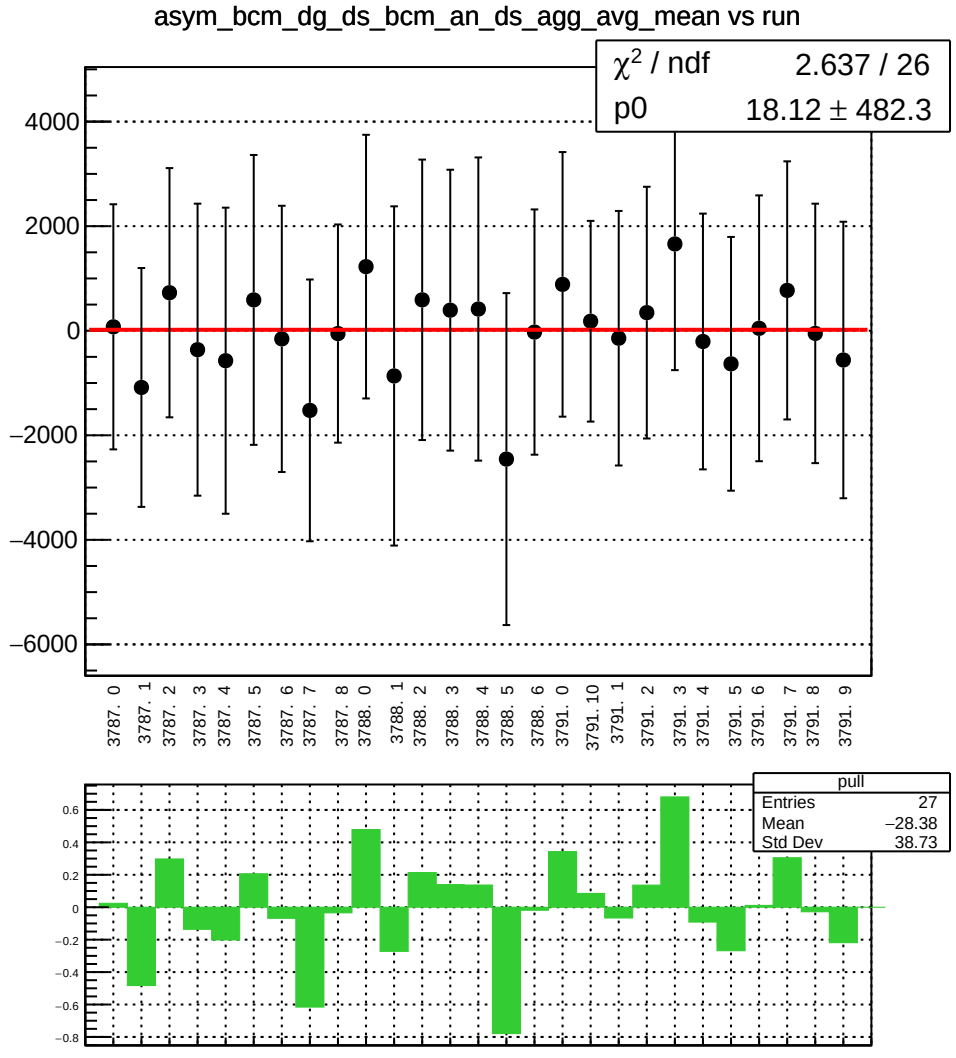
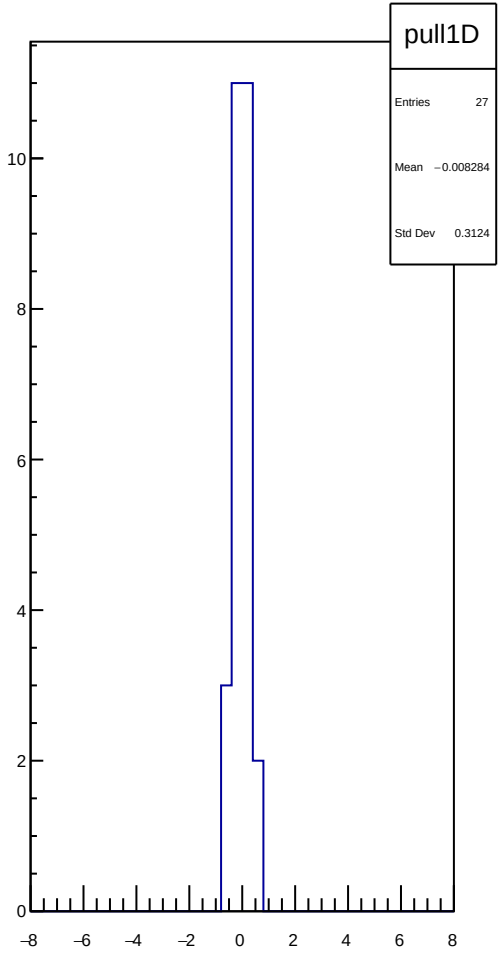
3791. 8
3791. 9


asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 2.637 / 26
p0 18.12 ± 482.3
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −28.38
Std Dev 38.73
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 27
Mean −0.008284
Std Dev 0.3124
10
8
6
4
2
0
−8
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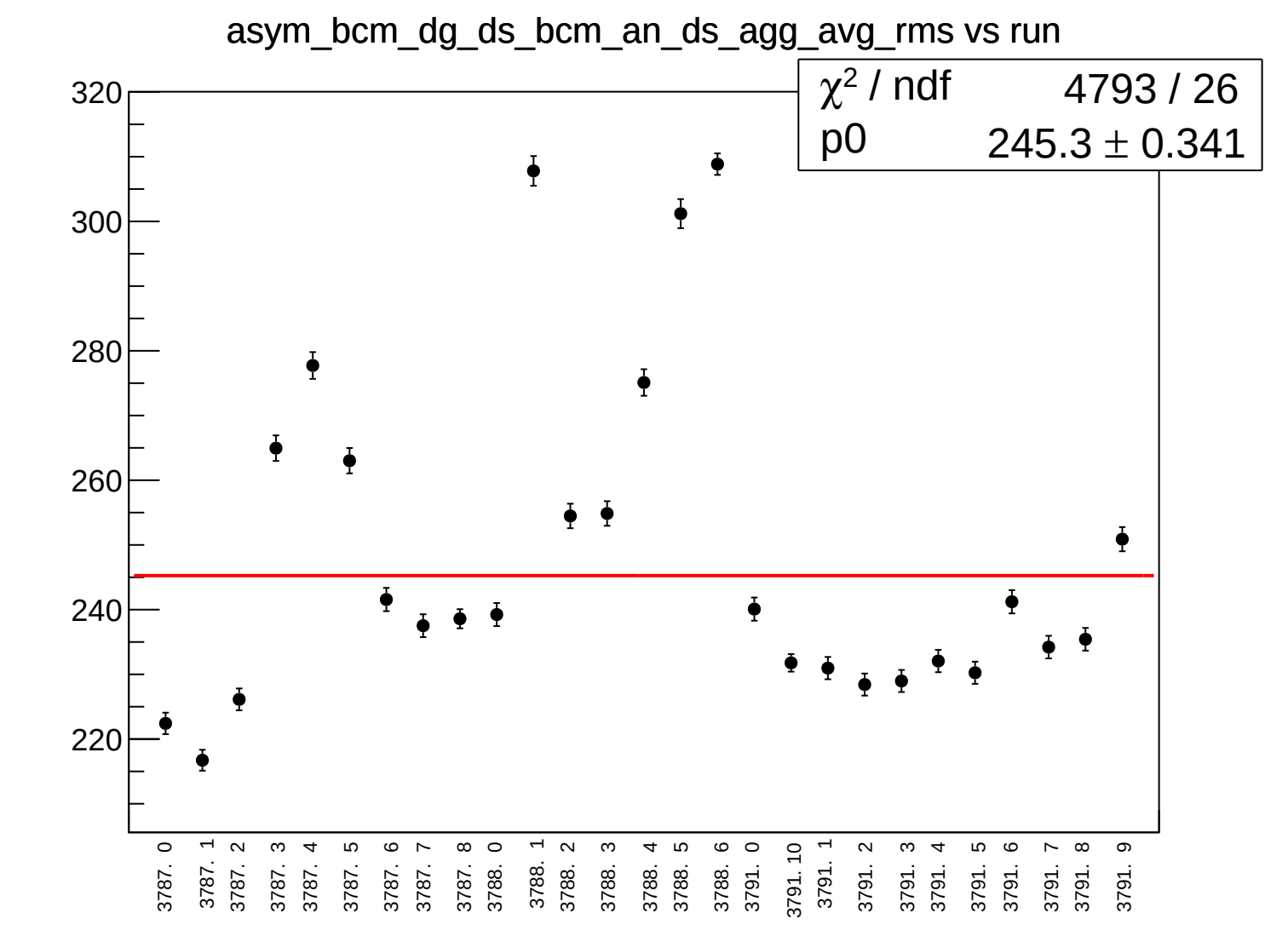
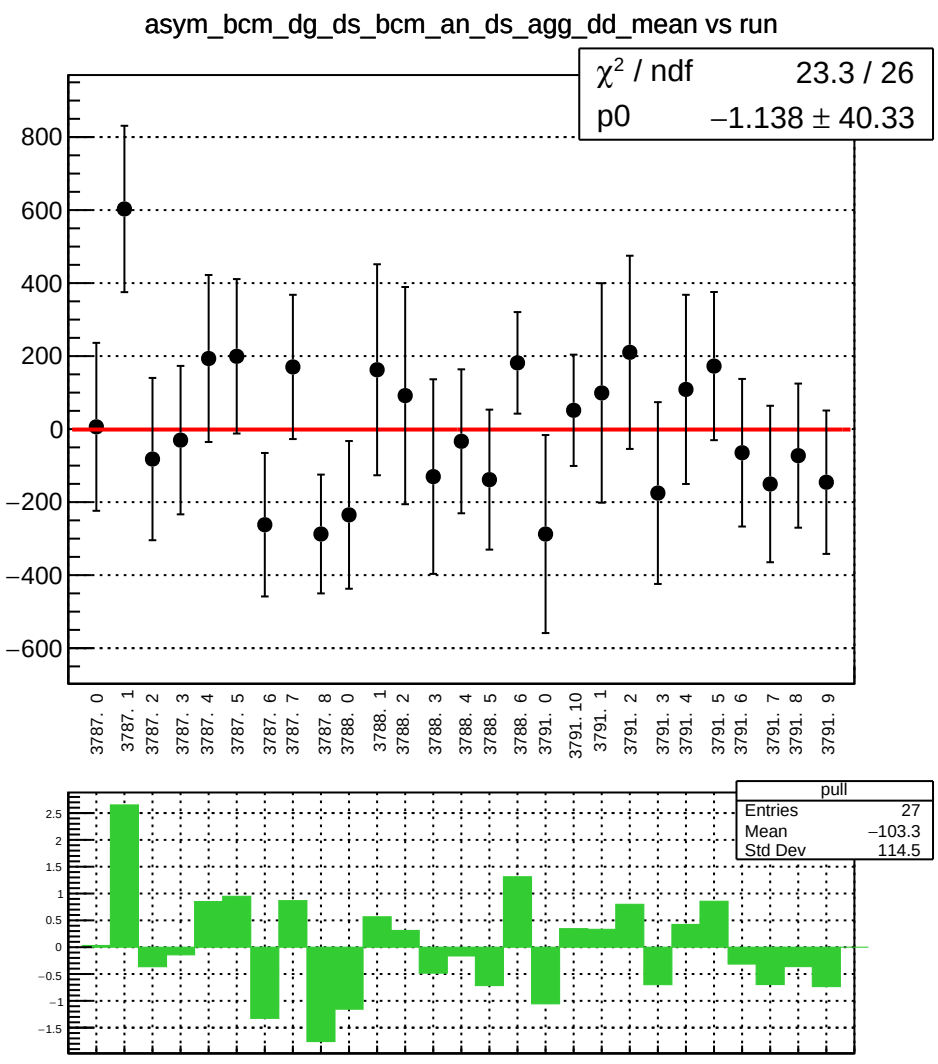
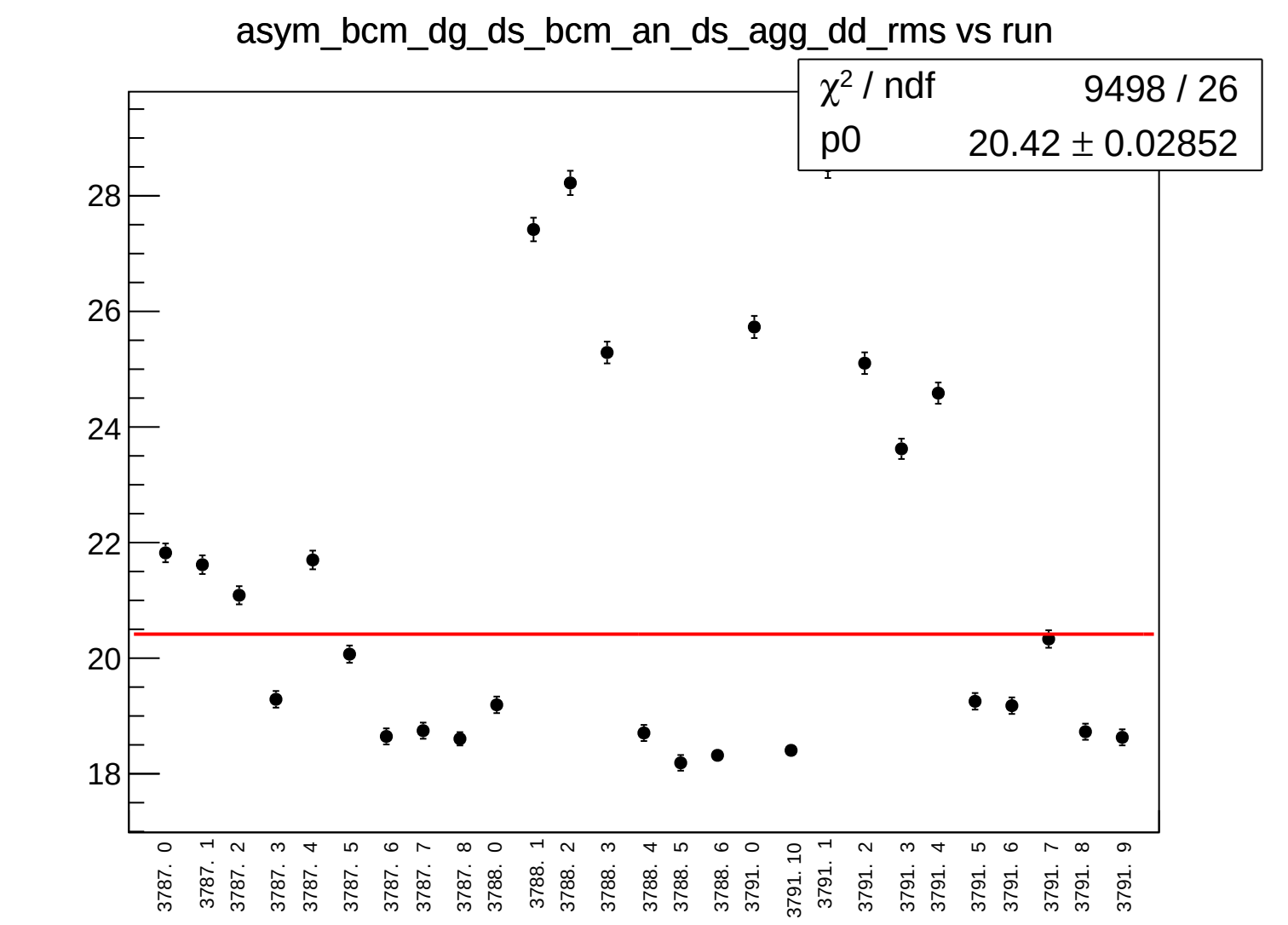
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4793 / 26
p0 245.3 ± 0.341
320
300
280
260
240
220
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 23.3 / 26
p0 −1.138 ± 40.33
800
600
400
200
0
−200
−400
−600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −103.3
Std Dev 114.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean 0.01214
Std Dev 0.929
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9498 / 26
p0 20.42 ± 0.02852
28
26
24
22
20
18
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
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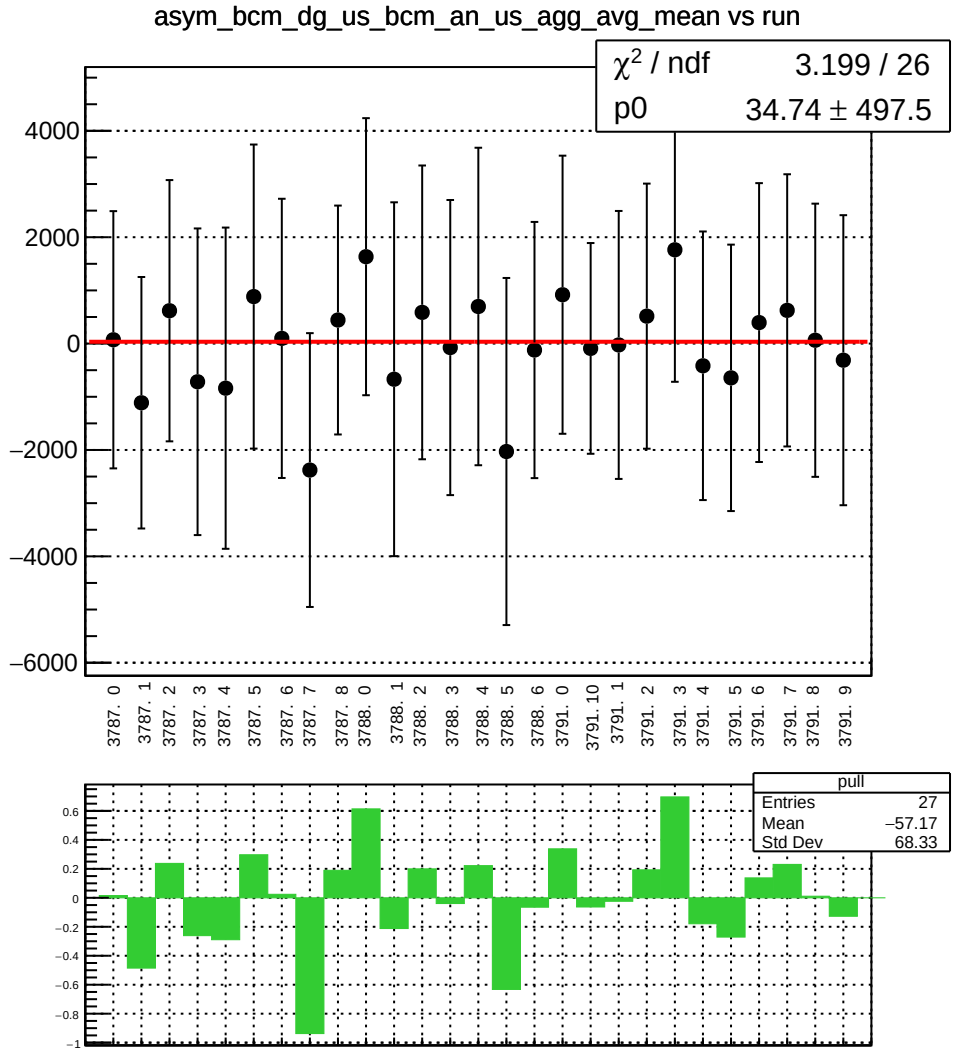
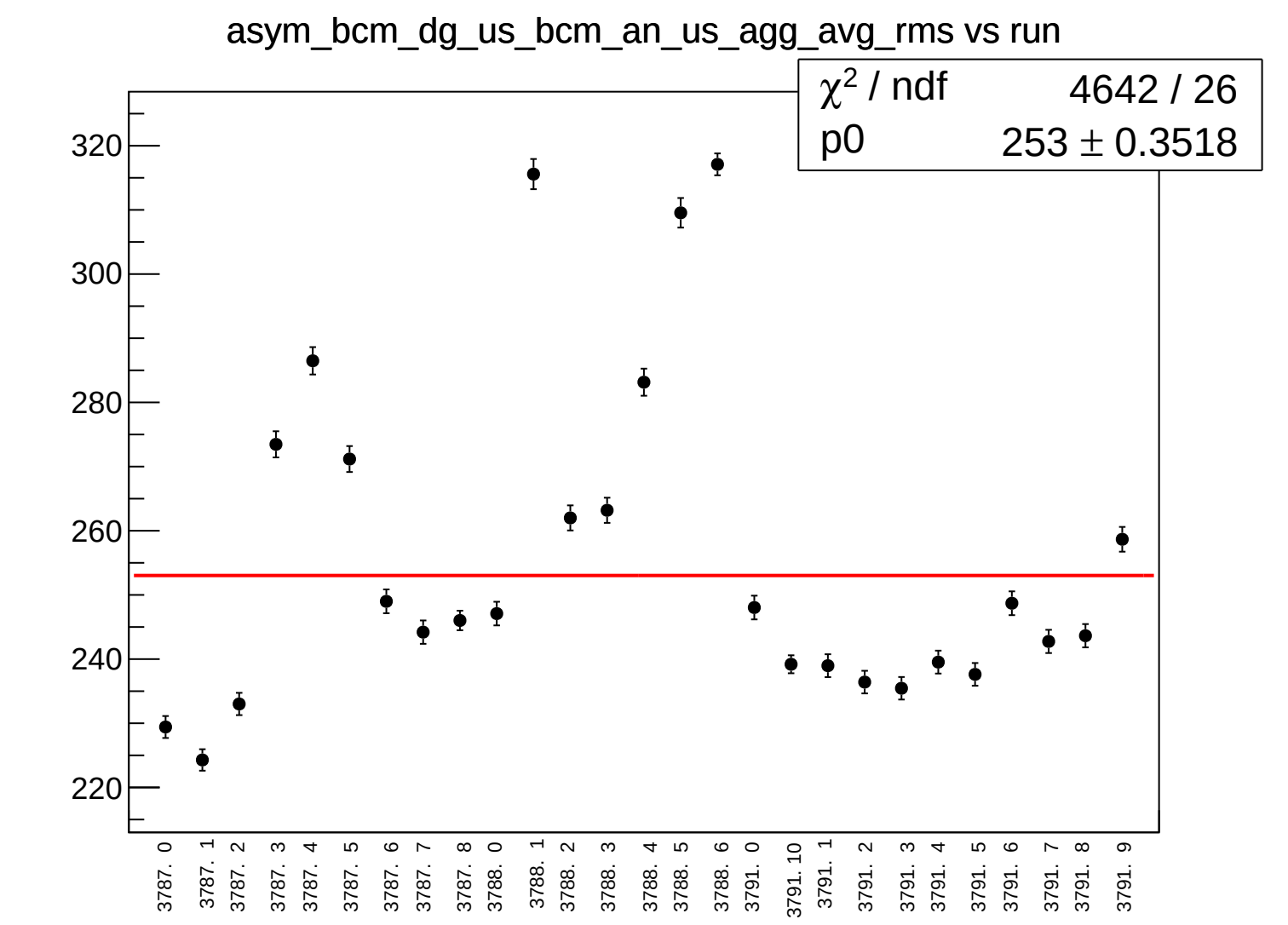
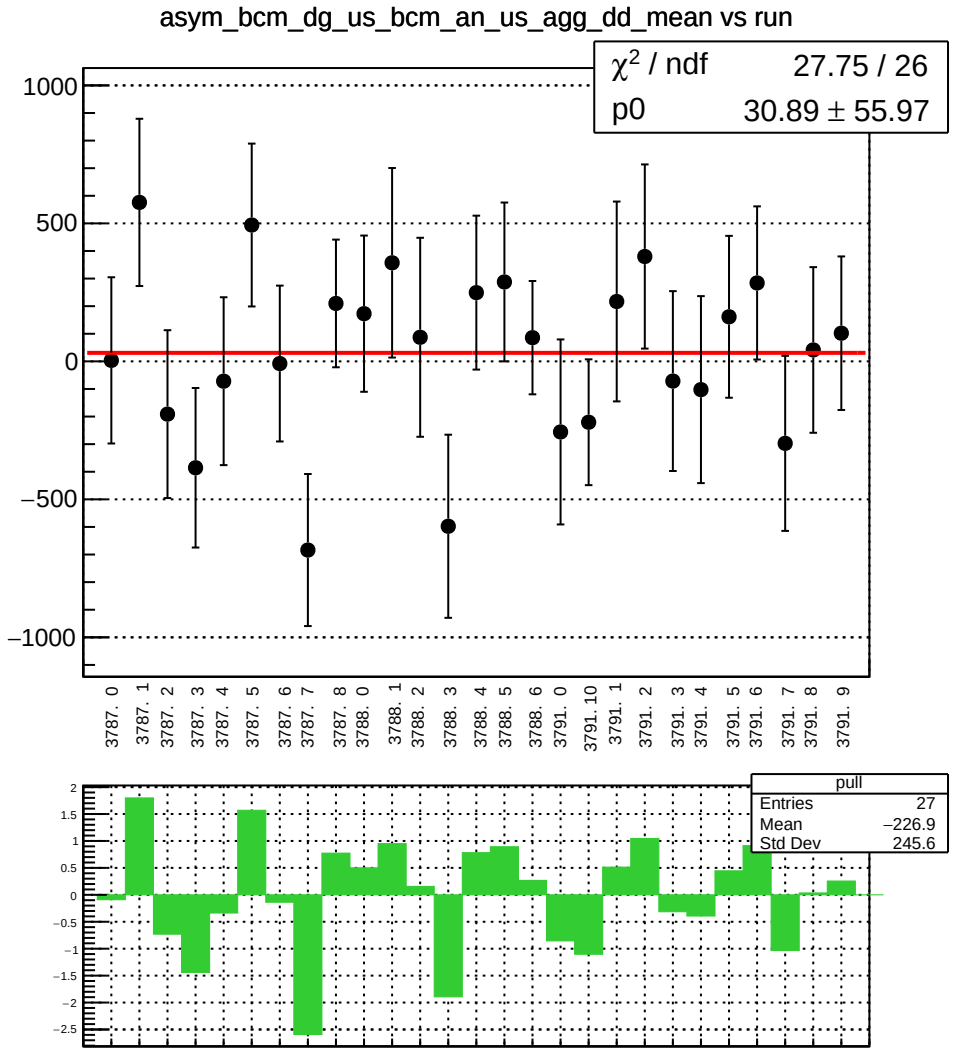
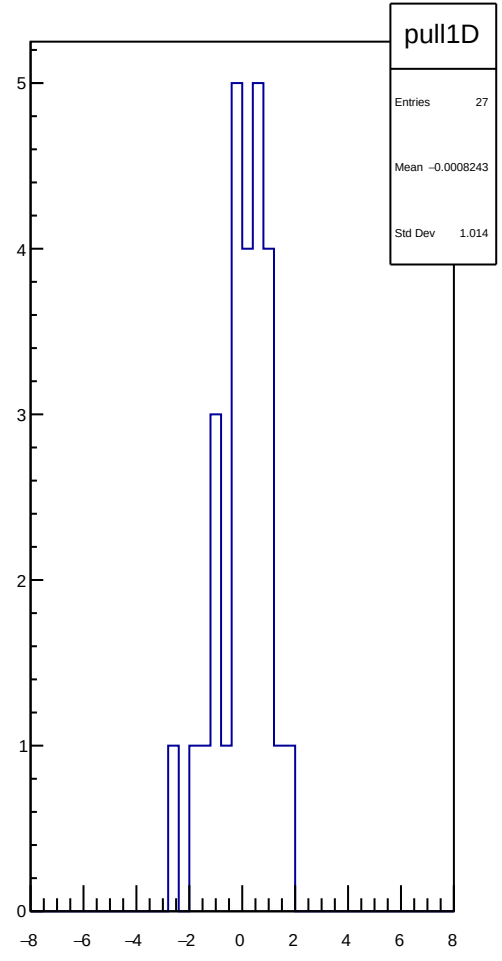
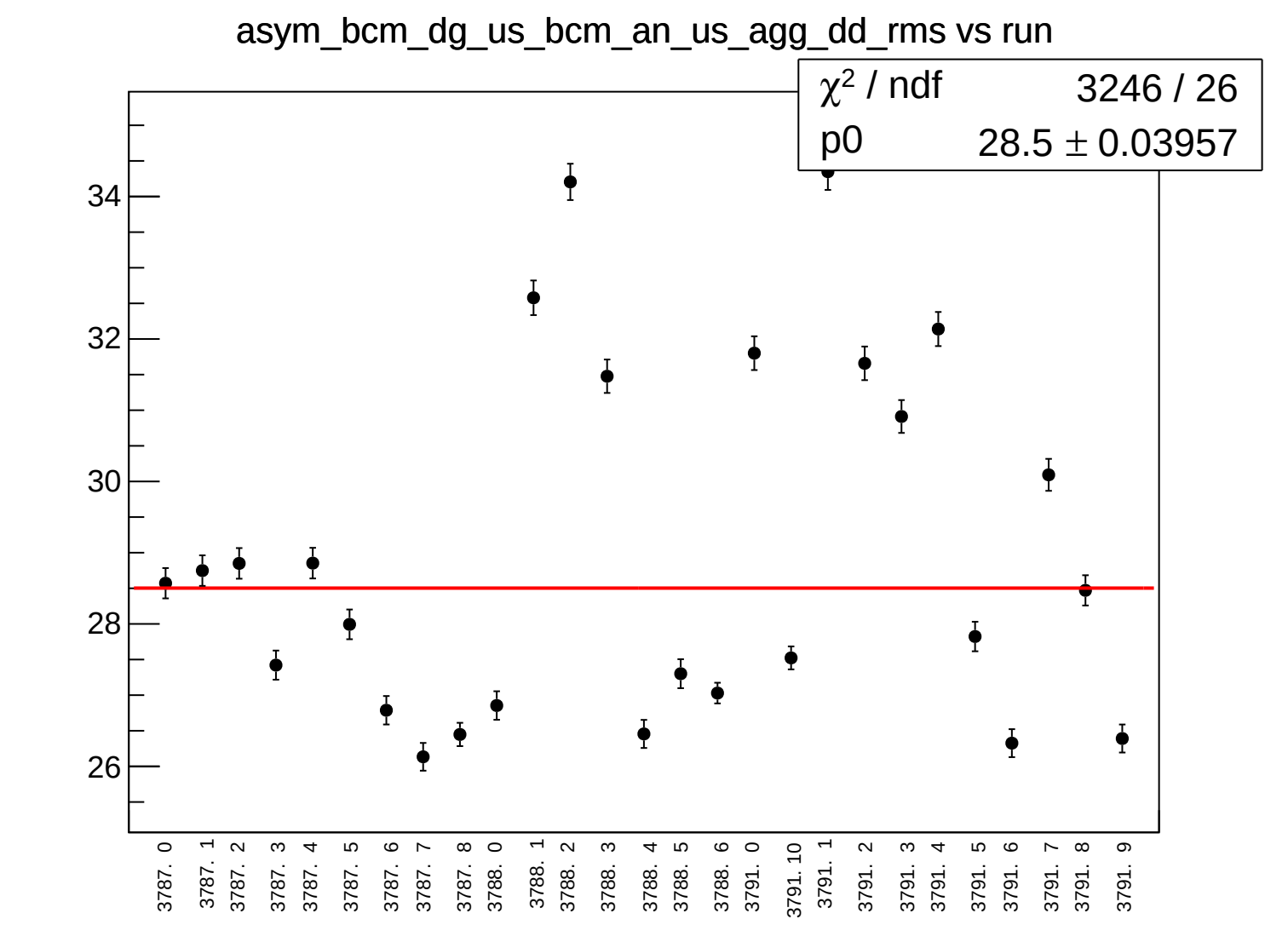
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 3.199 / 26
p0 34.74 ± 497.5
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −57.17
Std Dev 68.33
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 27
Mean −0.006603
Std Dev 0.3442
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4642 / 26
p0 253 ± 0.3518
320
300
280
260
240
220
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 27.75 / 26
p0 30.89 ± 55.97
1000
500
0
−500
−1000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −226.9
Std Dev 245.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 27
Mean −0.0008243
Std Dev 1.014
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3246 / 26
p0 28.5 ± 0.03957
34
32
30
28
26
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
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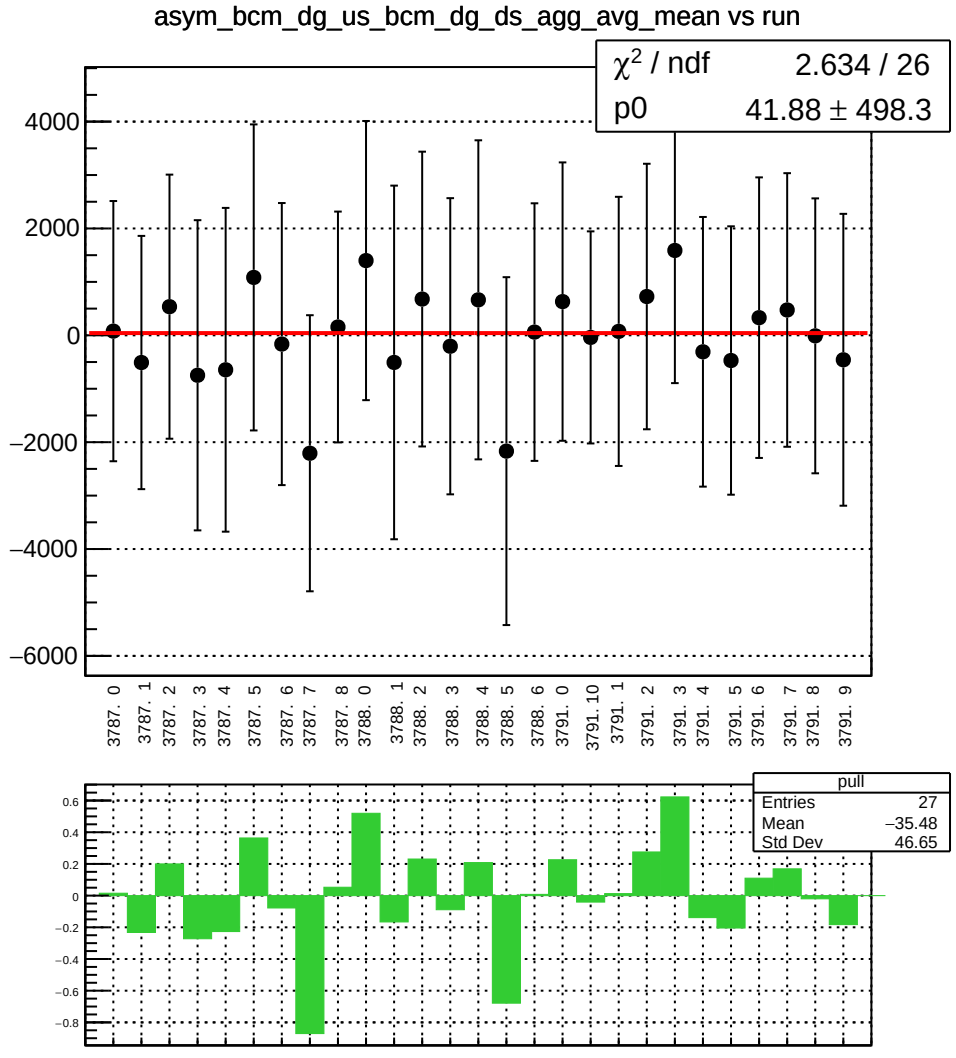
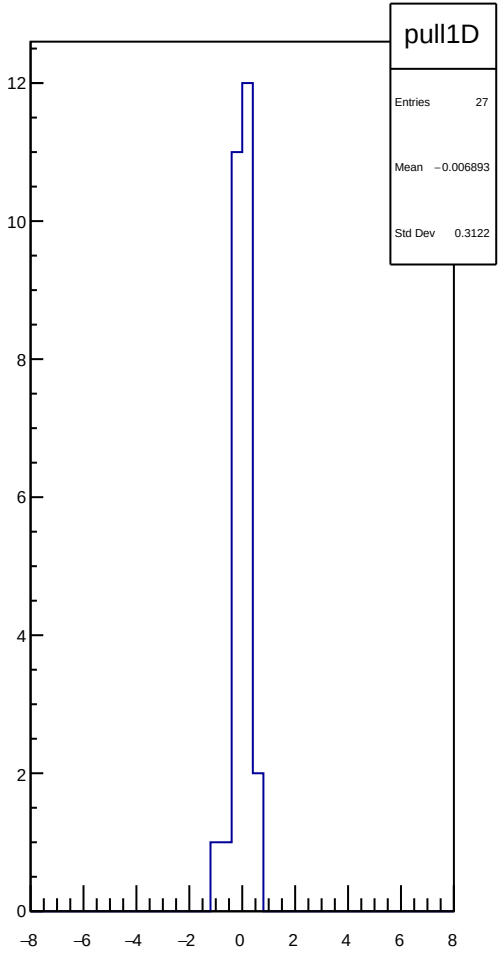
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 2.634 / 26
p0 41.88 ± 498.3
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −35.48
Std Dev 46.65
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 27
Mean −0.006893
Std Dev 0.3122
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10
8
6
4
2
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−8
−6
−4
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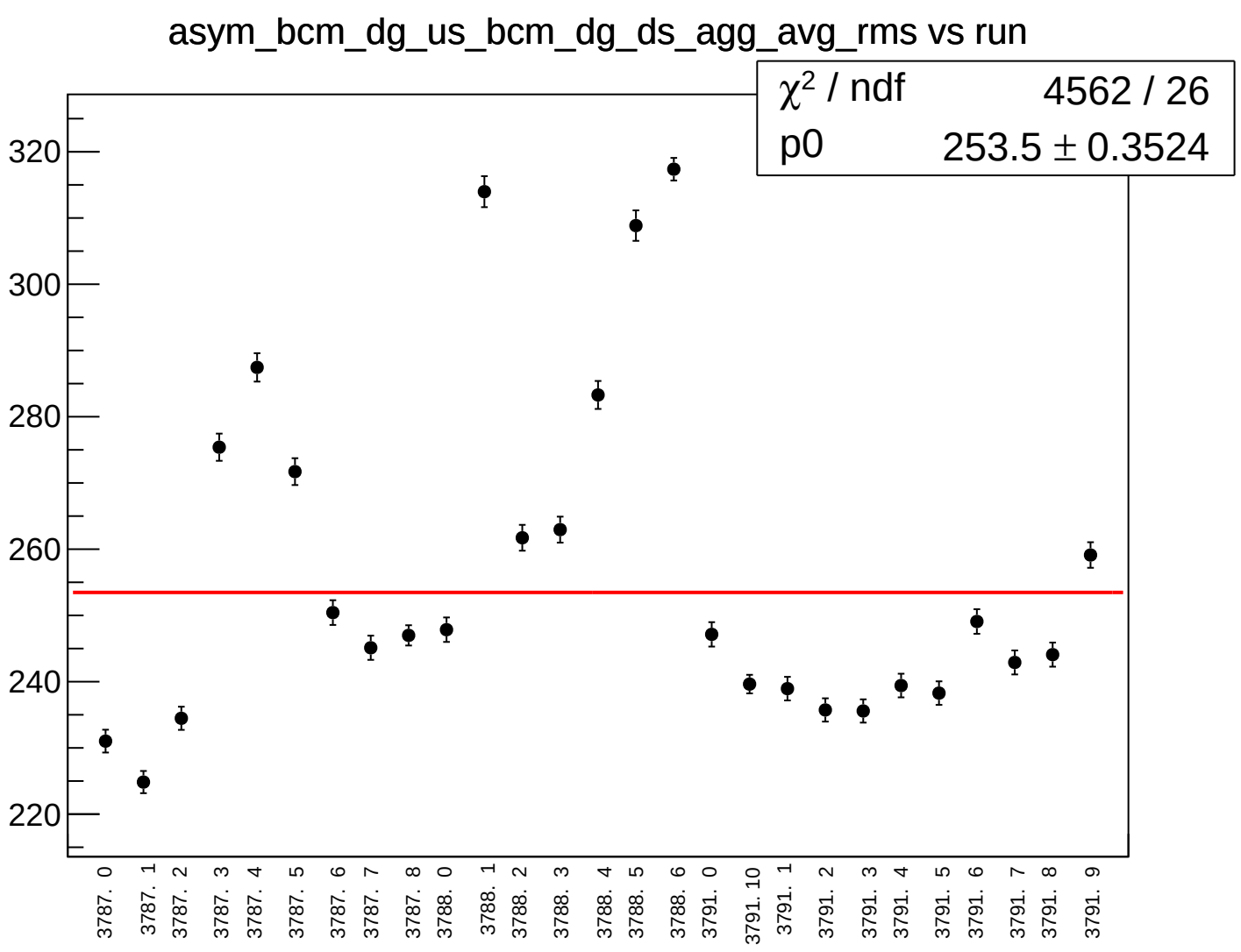
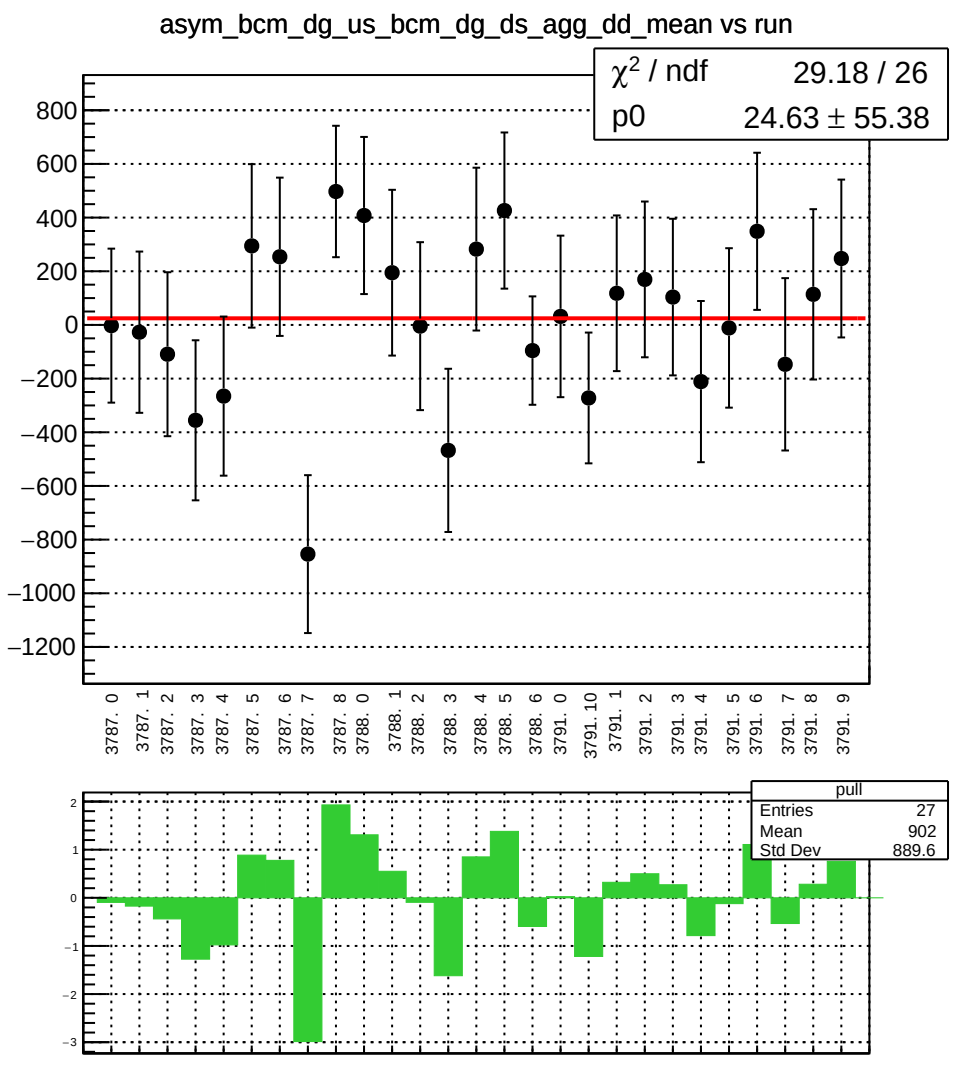
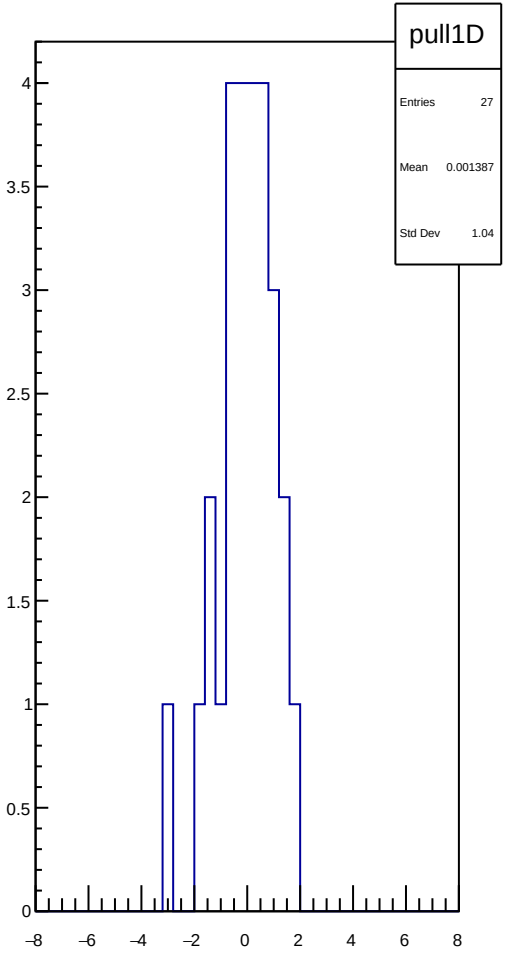
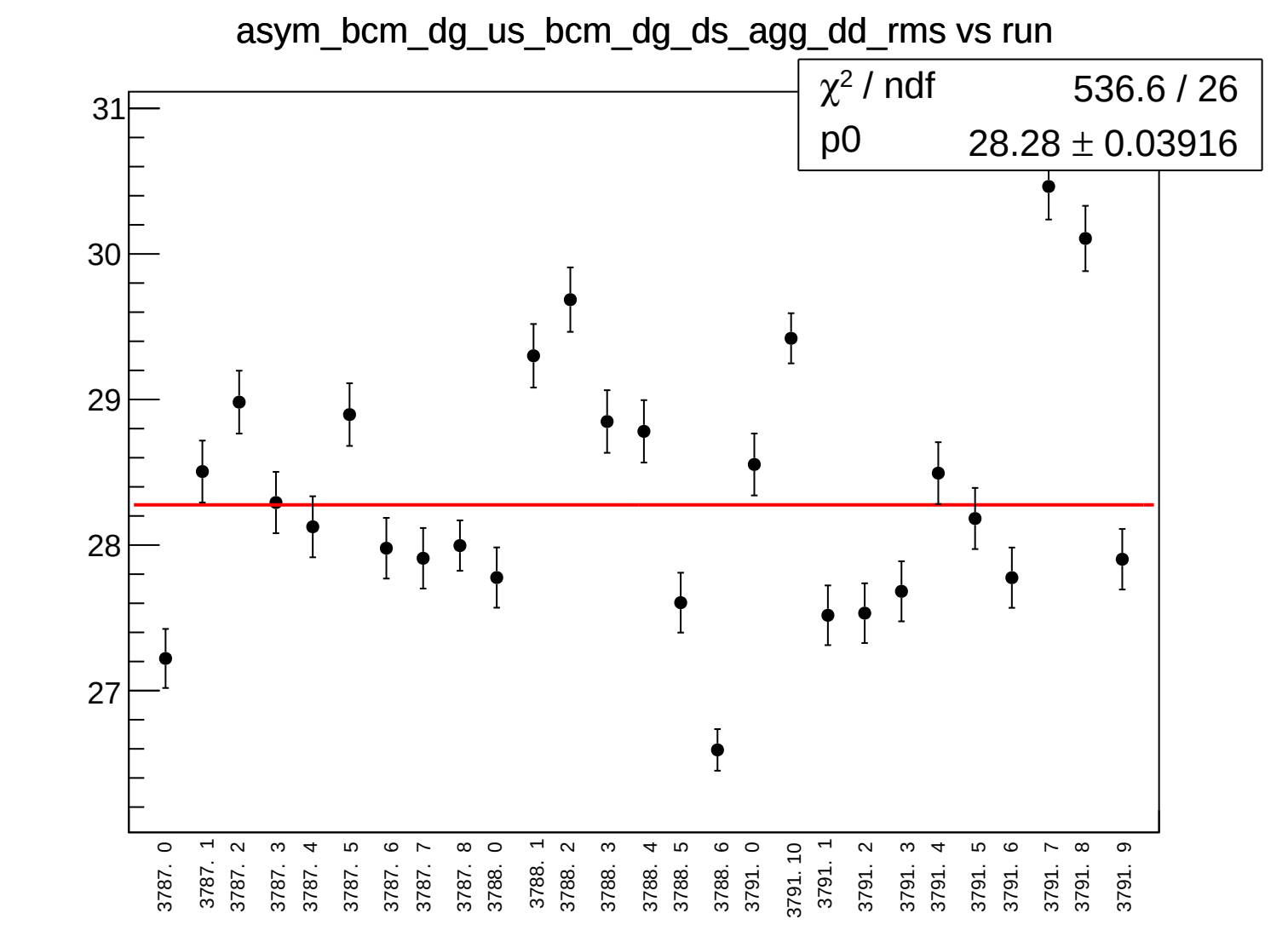
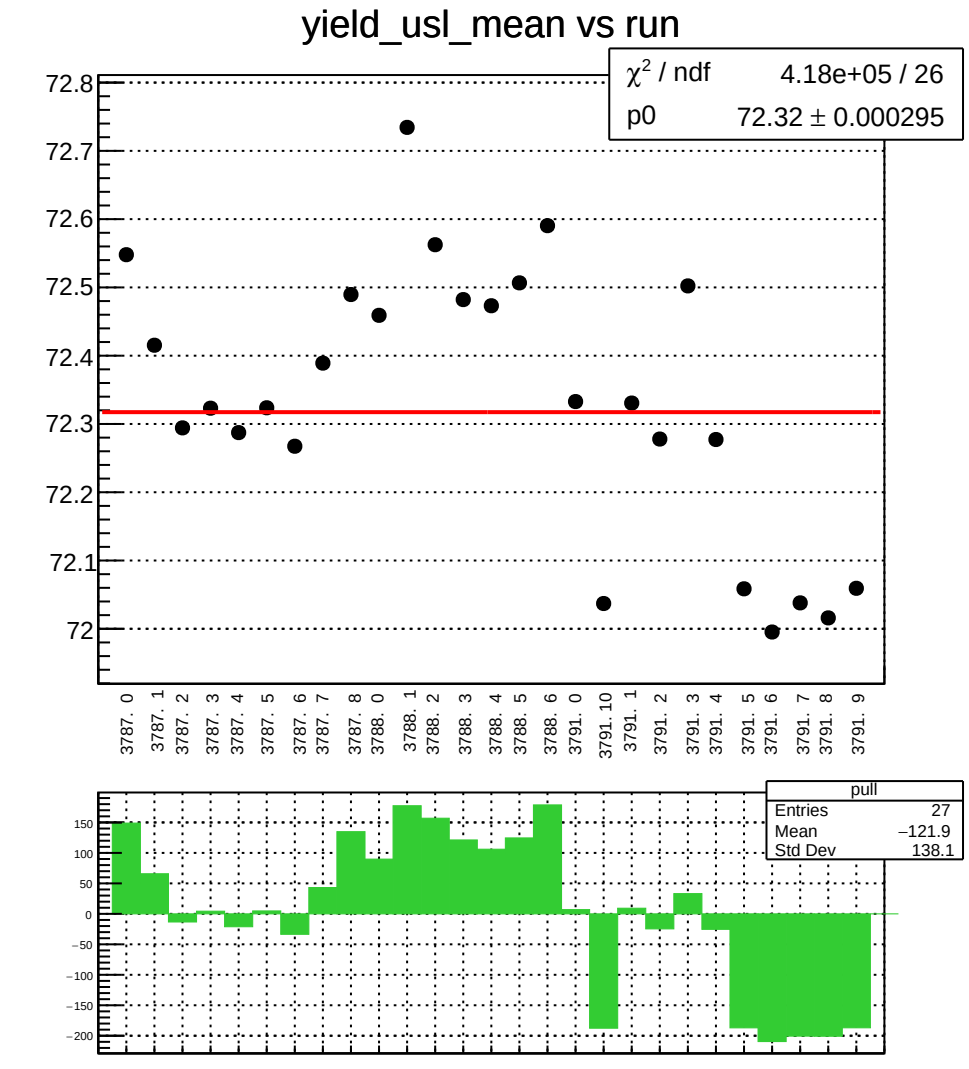
2
4
6
8

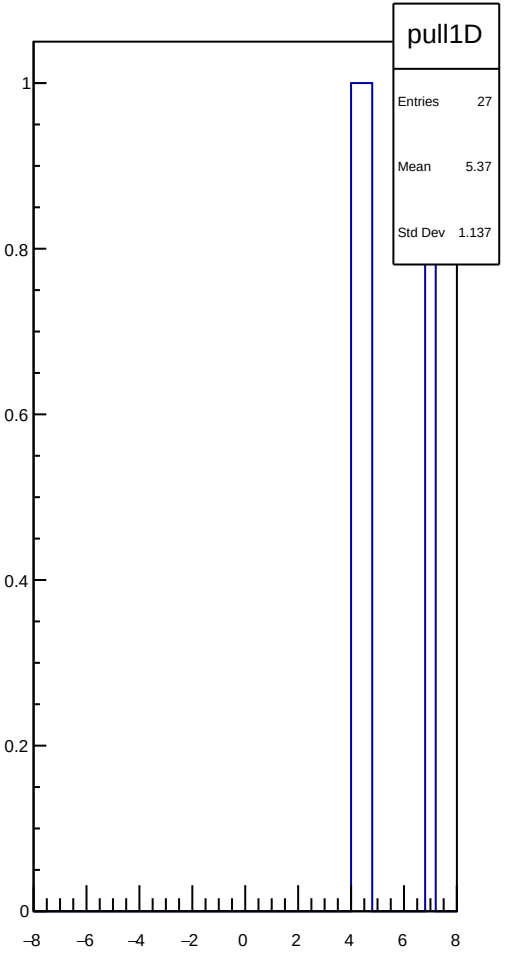

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4562 / 26
p0 253.5 ± 0.3524
320
300
280
260
240
220
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

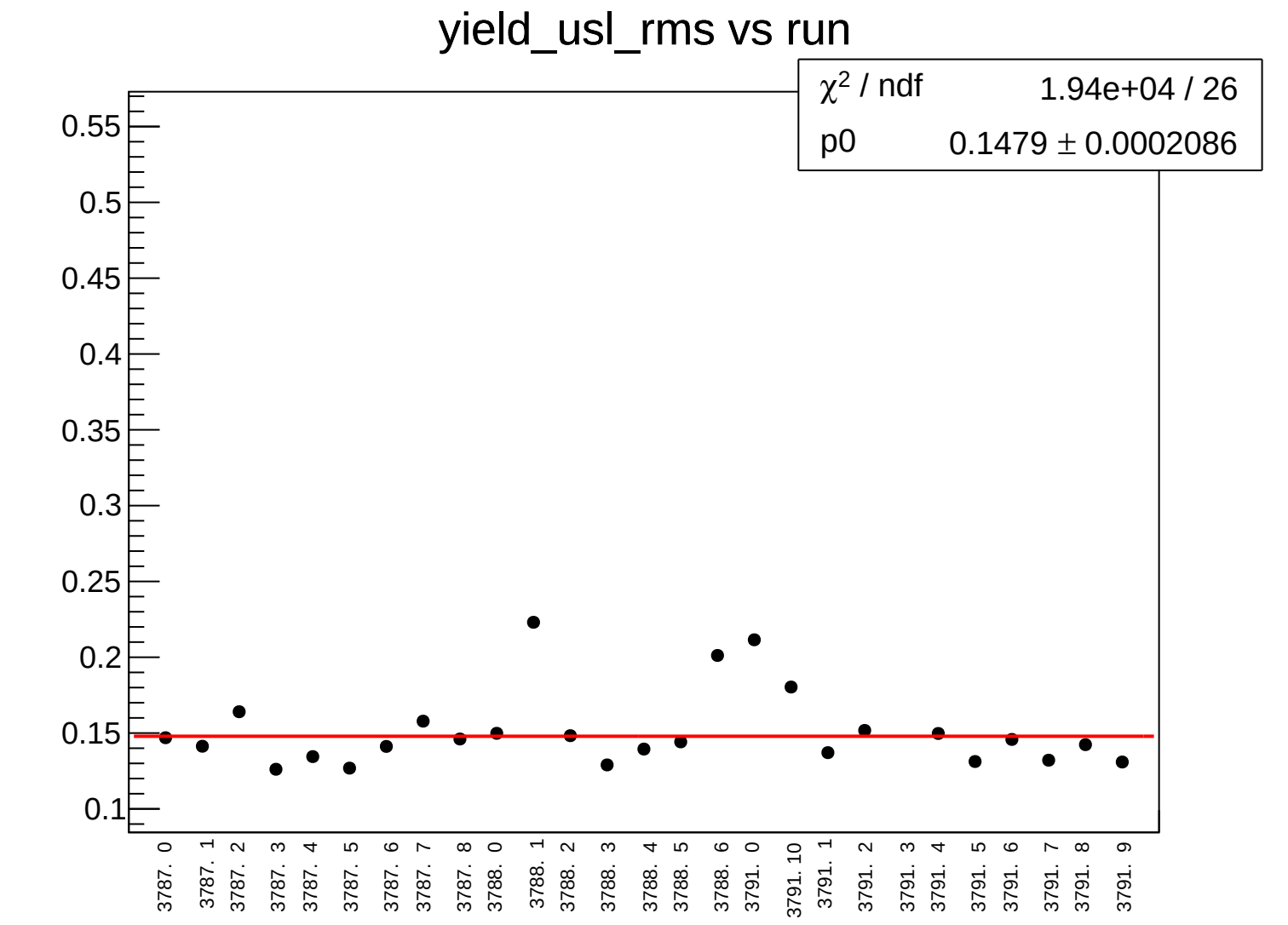

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 29.18 / 26
p0 24.63 ± 55.38
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 902
Std Dev 889.6
2
1
0
−1
−2
−3

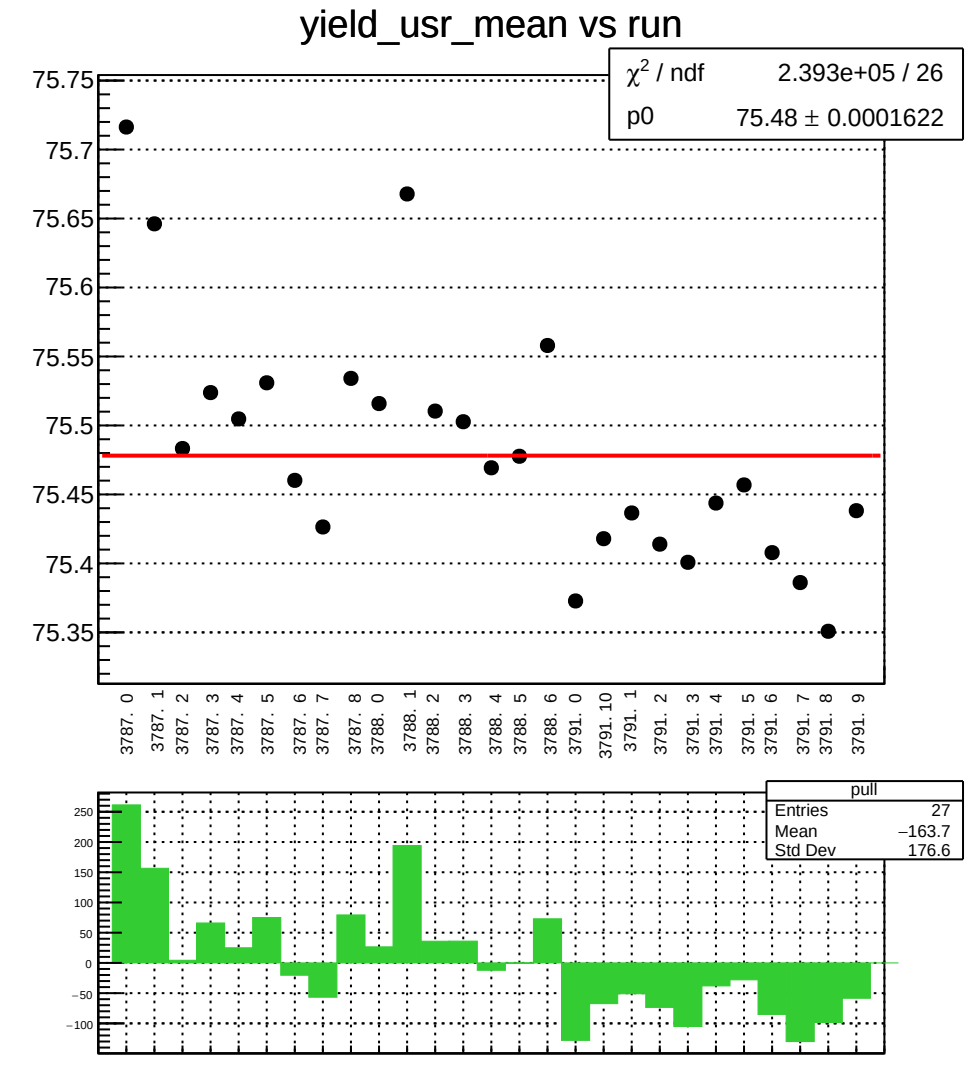

pull1D
Entries 27
Mean 0.001387
Std Dev 1.04
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

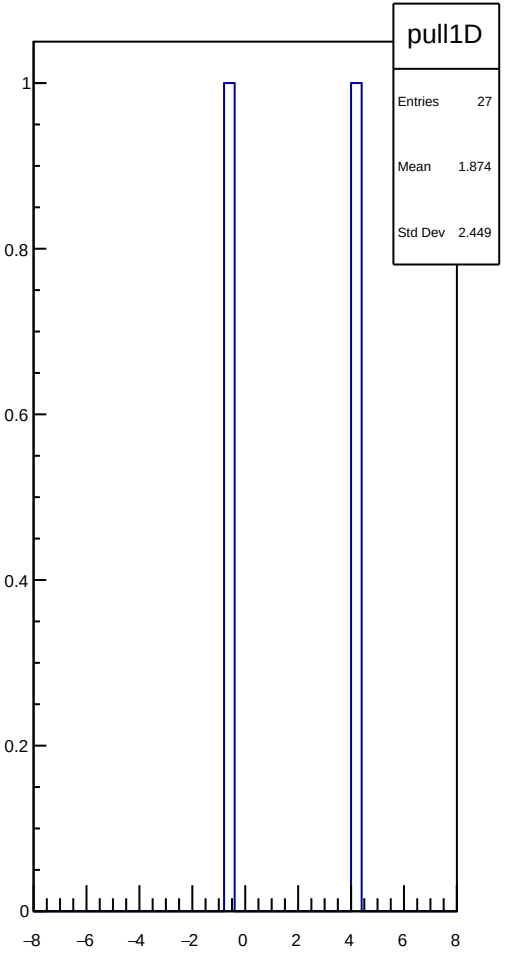

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 536.6 / 26
p0 28.28 ± 0.03916
31
30
29
28
27
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

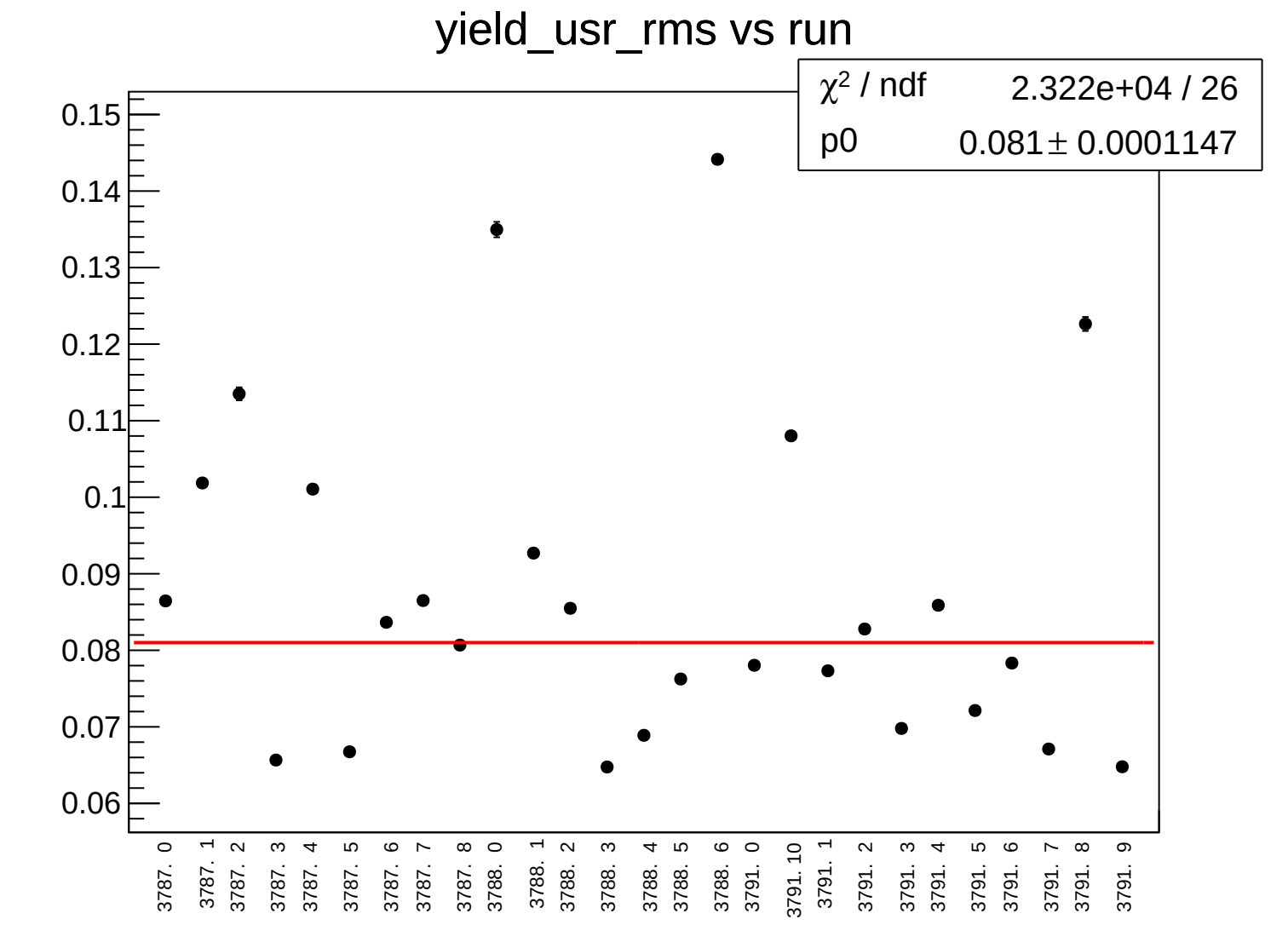

yield_usl_mean vs run
χ² / ndf 4.18e+05 / 26
p0 72.32 ± 0.000295
72.8
72.7
72.6
72.5
72.4
72.3
72.2
72.1
72
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −121.9
Std Dev 138.1
150
100
50
0
−50
−100
−150
−200

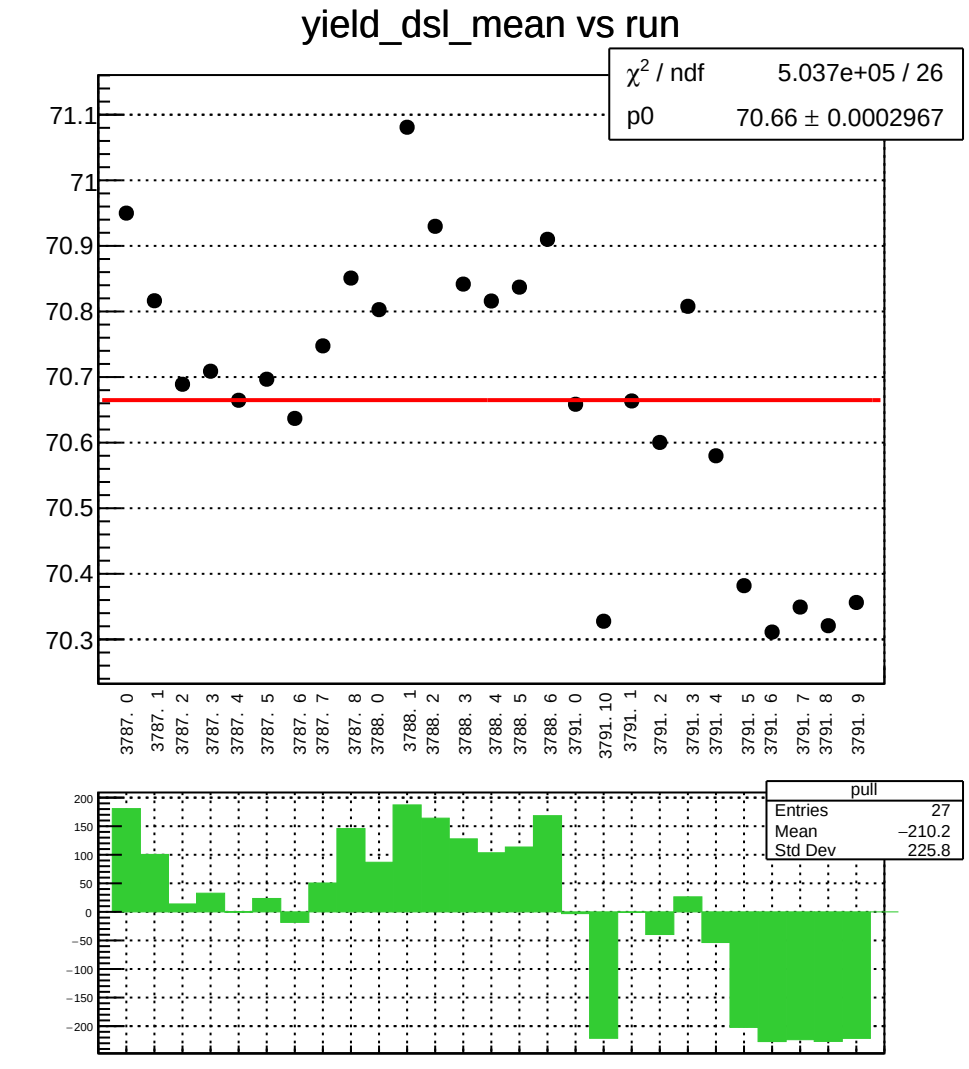

pull1D
Entries 27
Mean 5.37
Std Dev 1.137
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

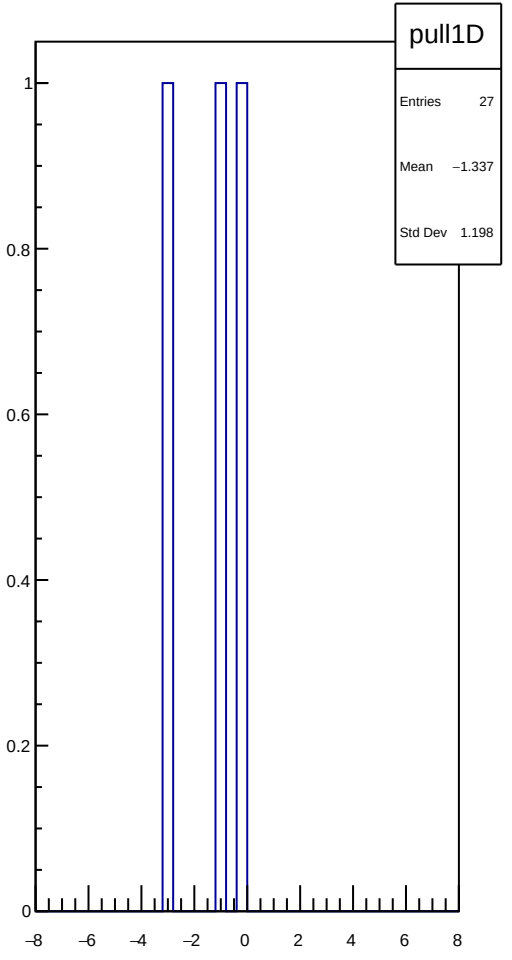

yield_usl_rms vs run
χ2 / ndf 1.94e+04 / 26
p0 0.1479 ± 0.0002086
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

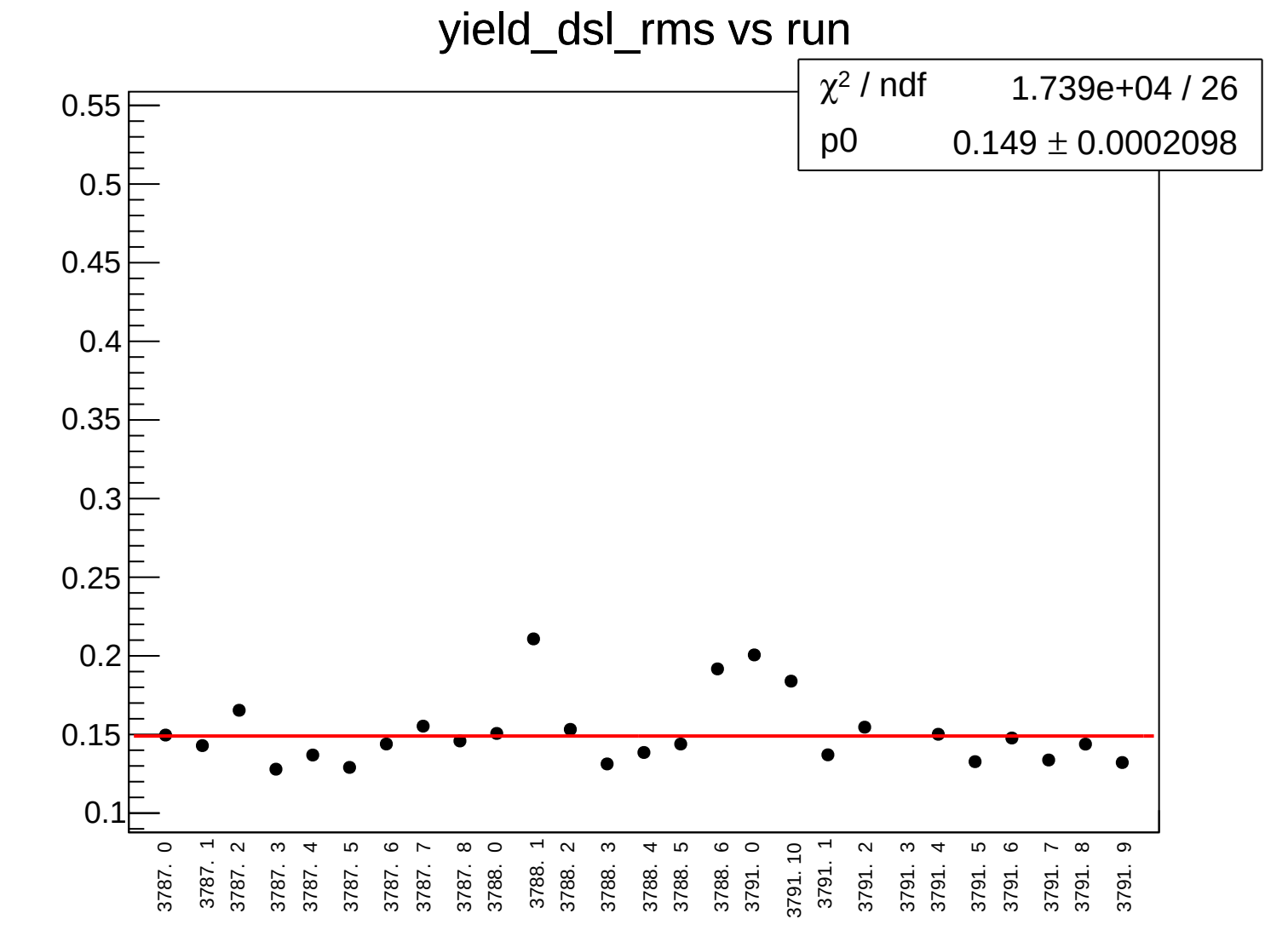

yield_usr_mean vs run
χ² / ndf 2.393e+05 / 26
p0 75.48 ± 0.0001622
75.75
75.7
75.65
75.6
75.55
75.5
75.45
75.4
75.35
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −163.7
Std Dev 176.6
250
200
150
100
50
0
−50
−100

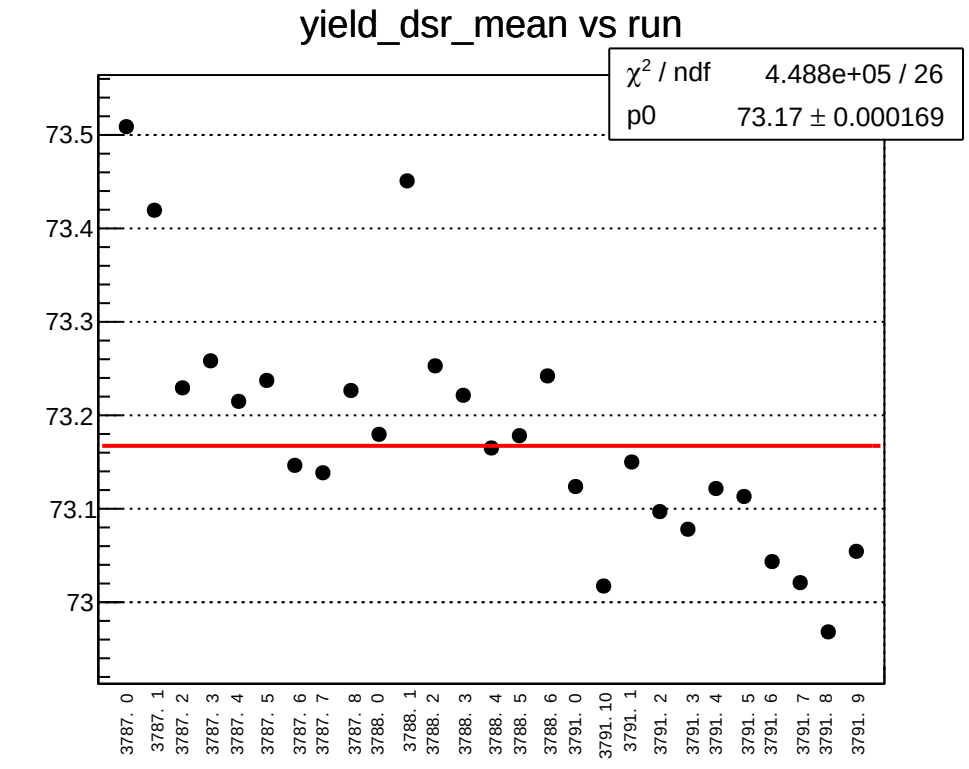

pull1D
Entries 27
Mean 1.874
Std Dev 2.449
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

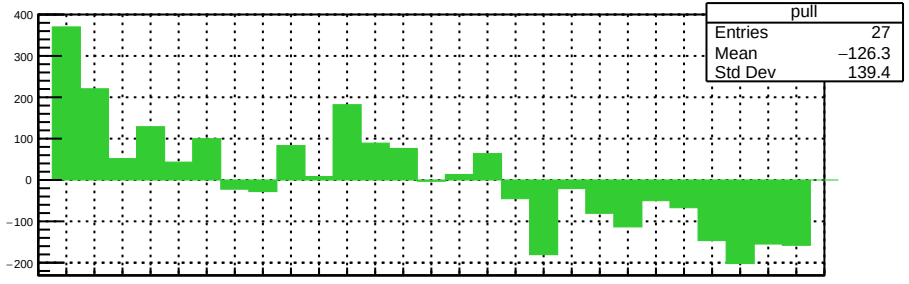

yield_usr_rms vs run
χ² / ndf 2.322e+04 / 26
p0 0.081 ± 0.0001147
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

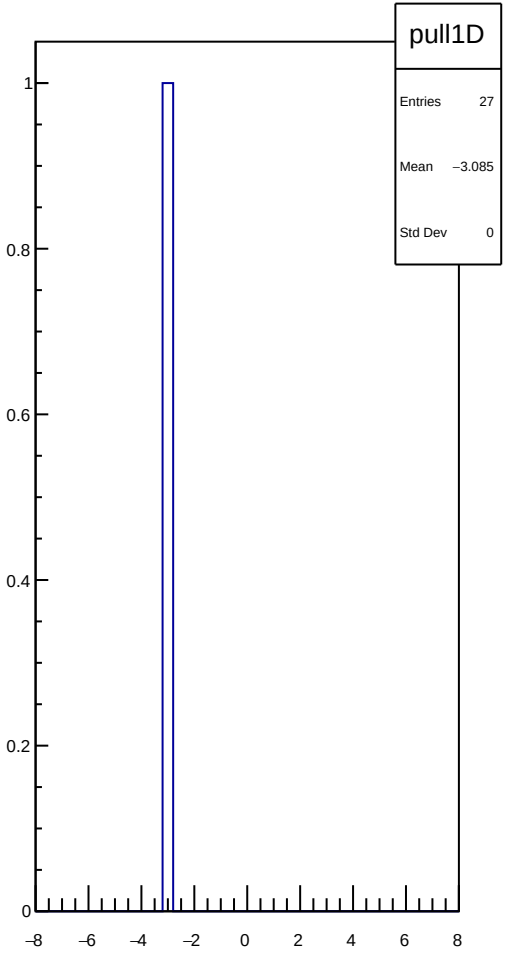

yield_dsl_mean vs run
χ² / ndf 5.037e+05 / 26
p0 70.66 ± 0.0002967
71.1
71
70.9
70.8
70.7
70.6
70.5
70.4
70.3
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −210.2
Std Dev 225.8
200
150
100
50
0
−50
−100
−150
−200

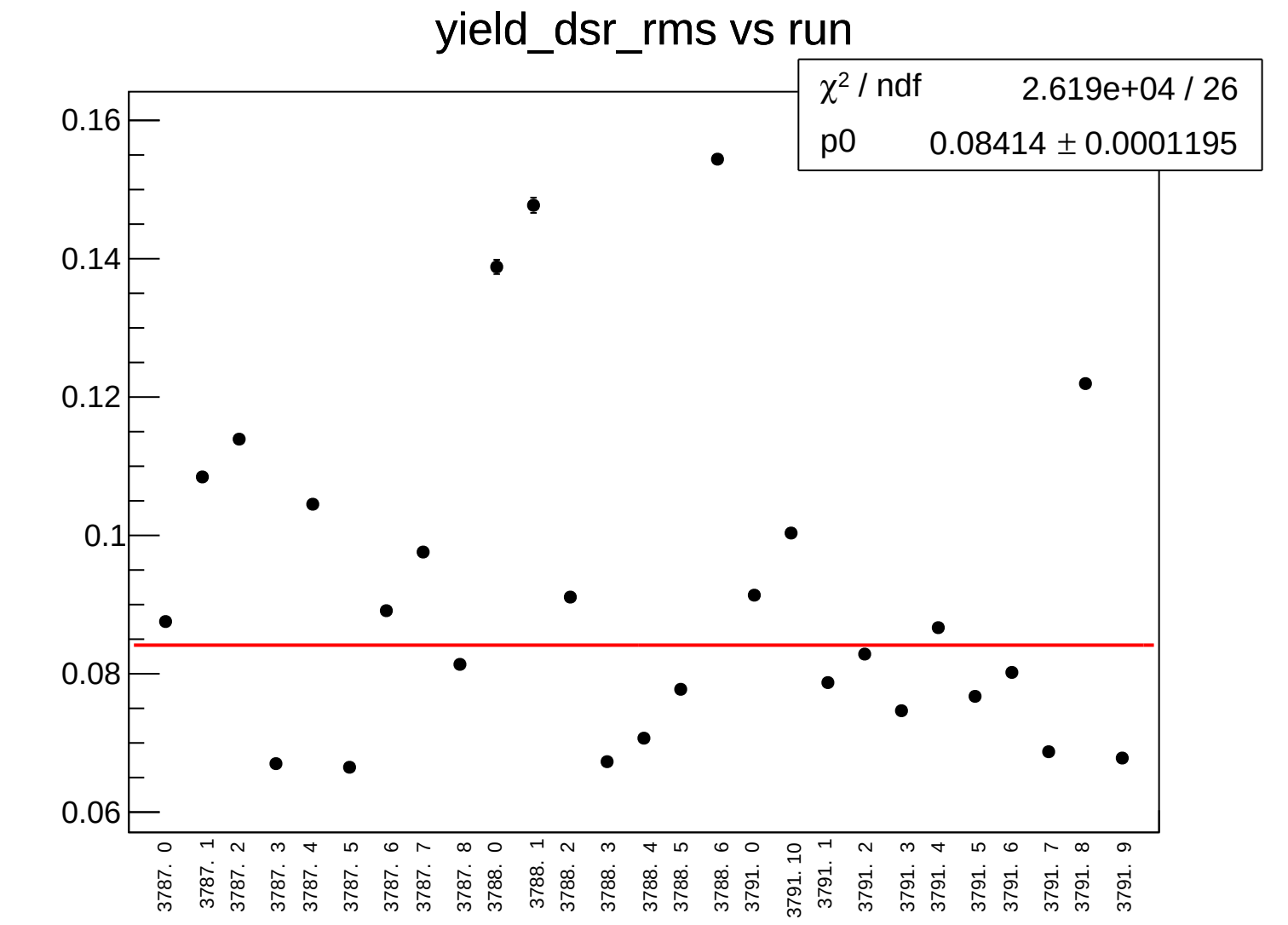

pull1D
Entries 27
Mean −1.337
Std Dev 1.198
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

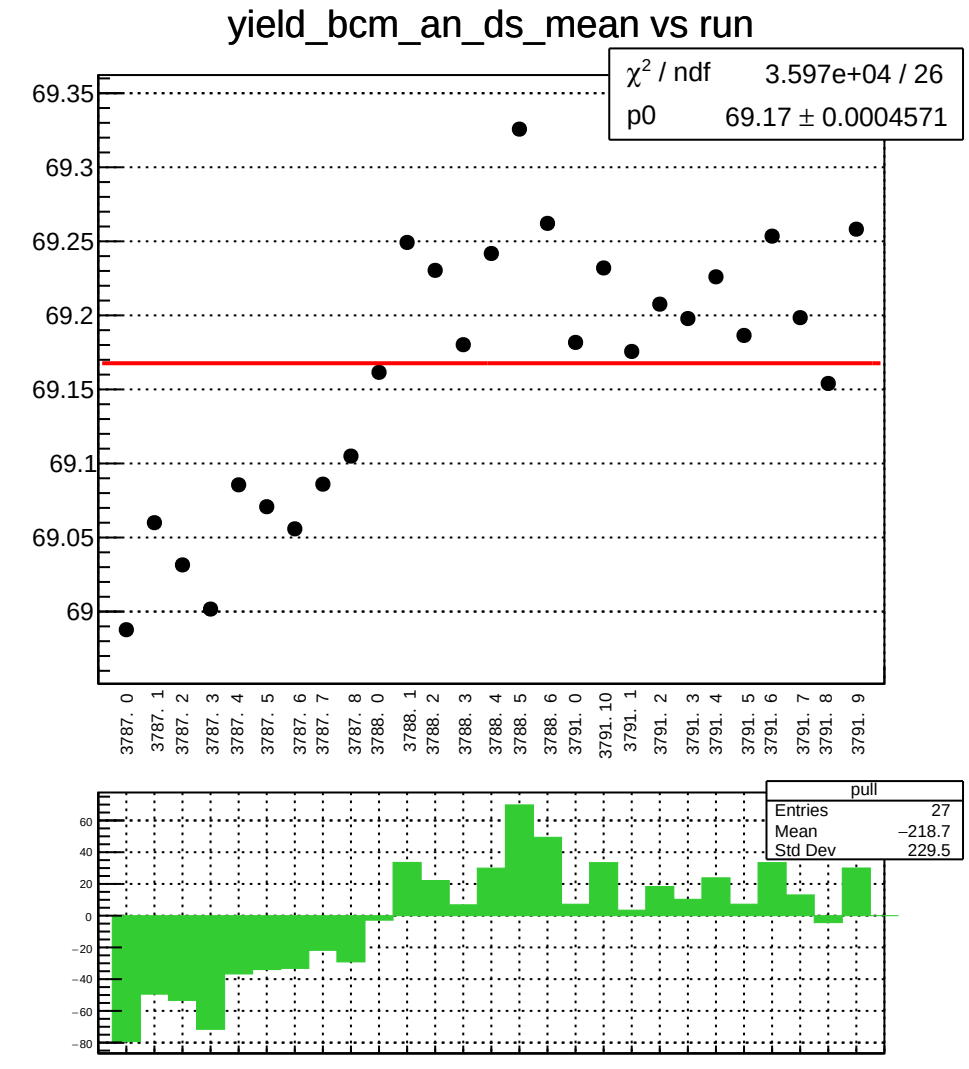

yield_dsl_rms vs run
χ² / ndf 1.739e+04 / 26
p0 0.149 ± 0.0002098
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

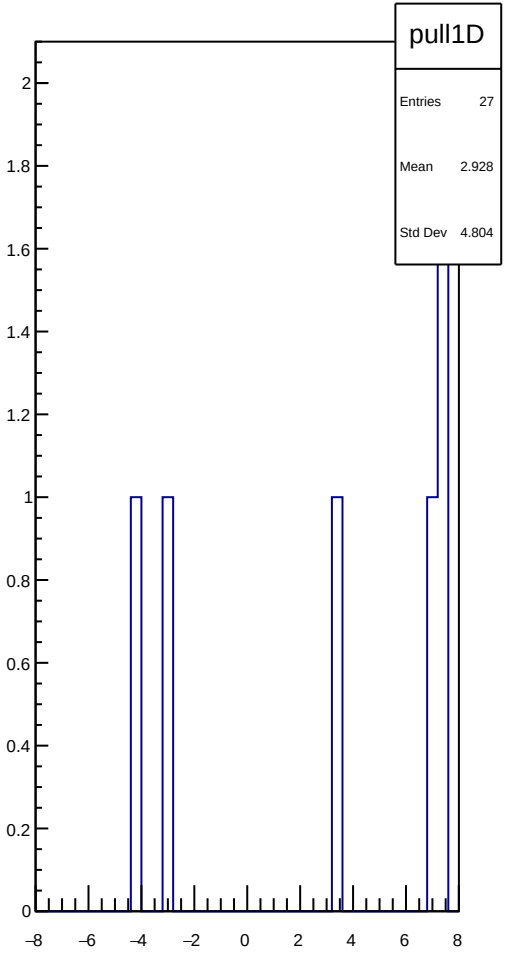

yield_dsr_mean vs run
χ² / ndf 4.488e+05 / 26
p0 73.17 ± 0.000169
73.5
73.4
73.3
73.2
73.1
73
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

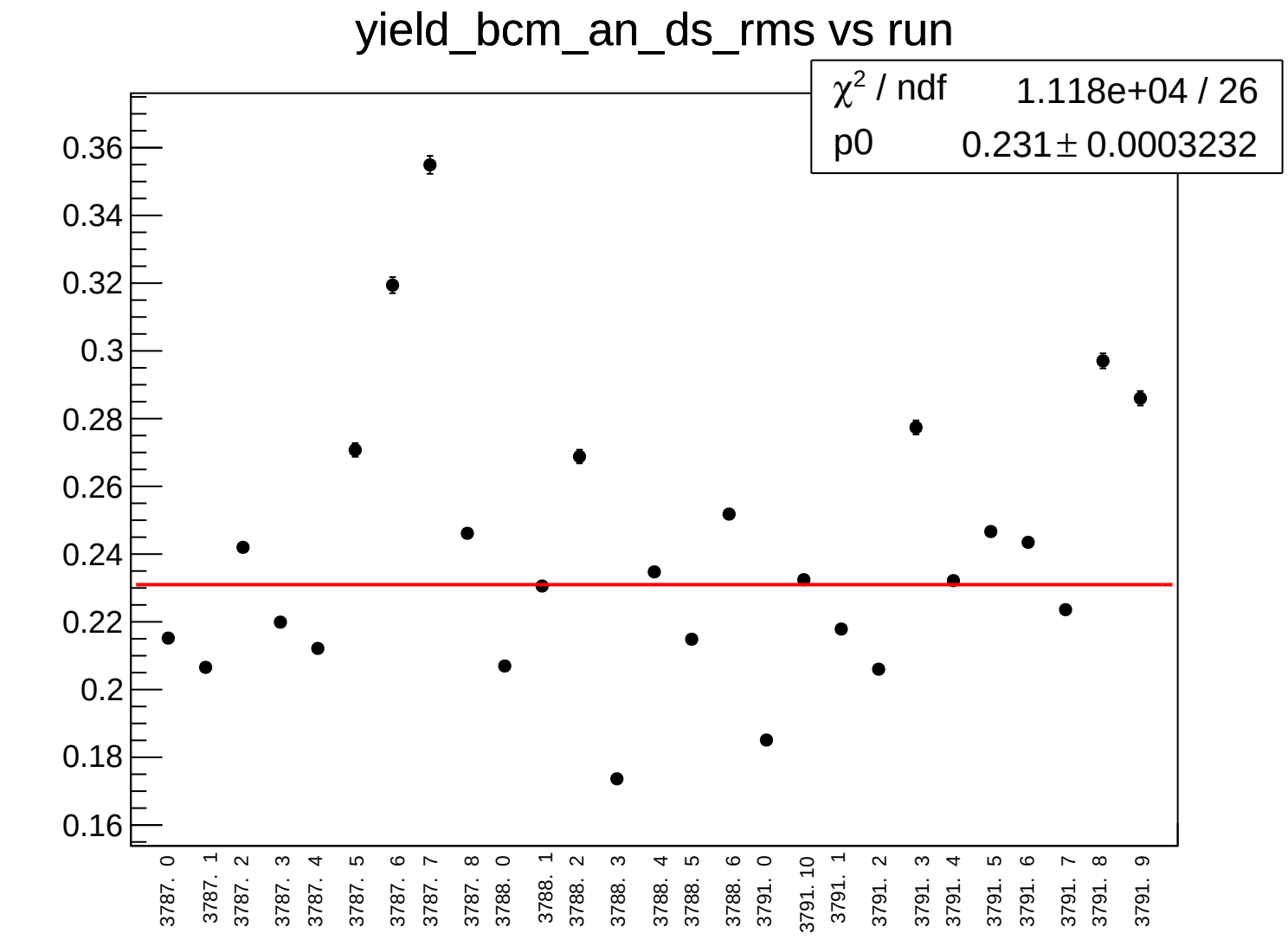

pull
Entries 27
Mean −126.3
Std Dev 139.4
400
300
200
100
0
−100
−200

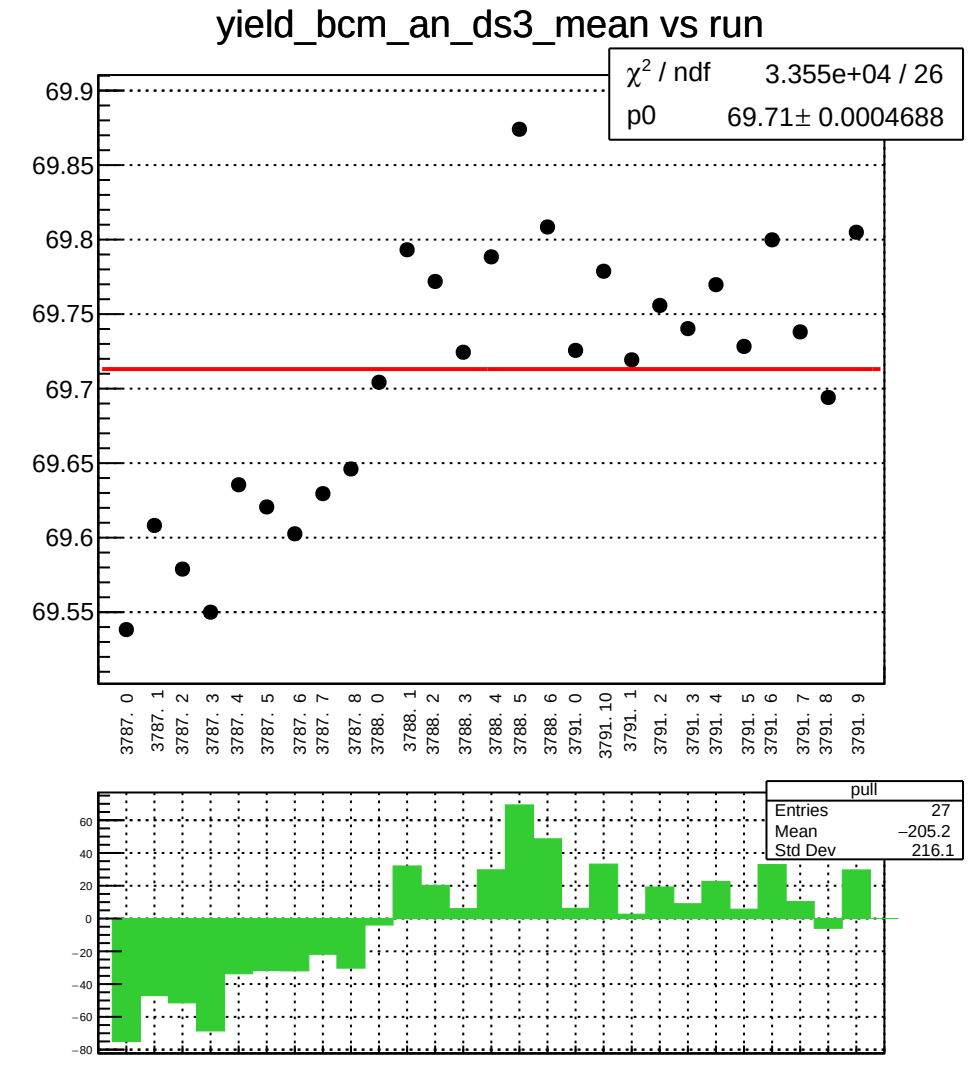

pull1D
Entries 27
Mean −3.085
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

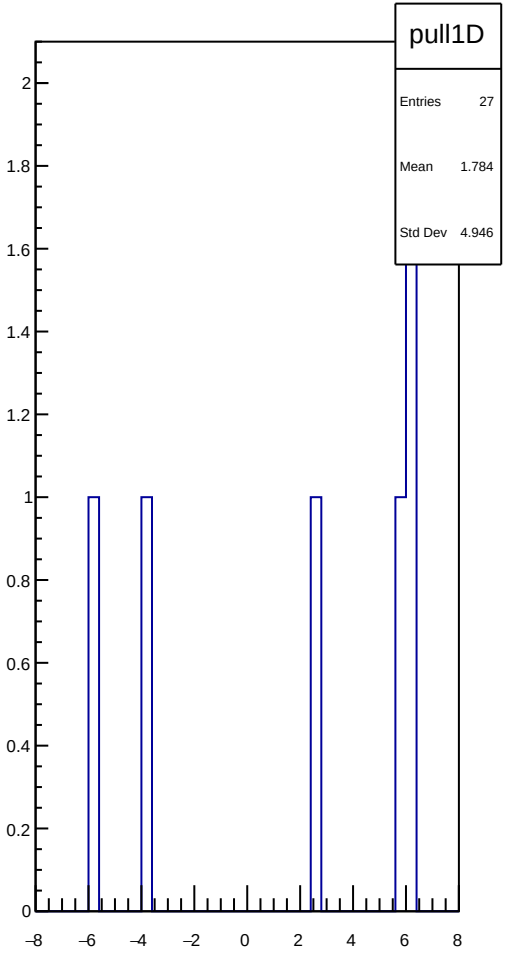

yield_dsr_rms vs run
χ² / ndf 2.619e+04 / 26
p0 0.08414 ± 0.0001195
0.16
0.14
0.12
0.1
0.08
0.06
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

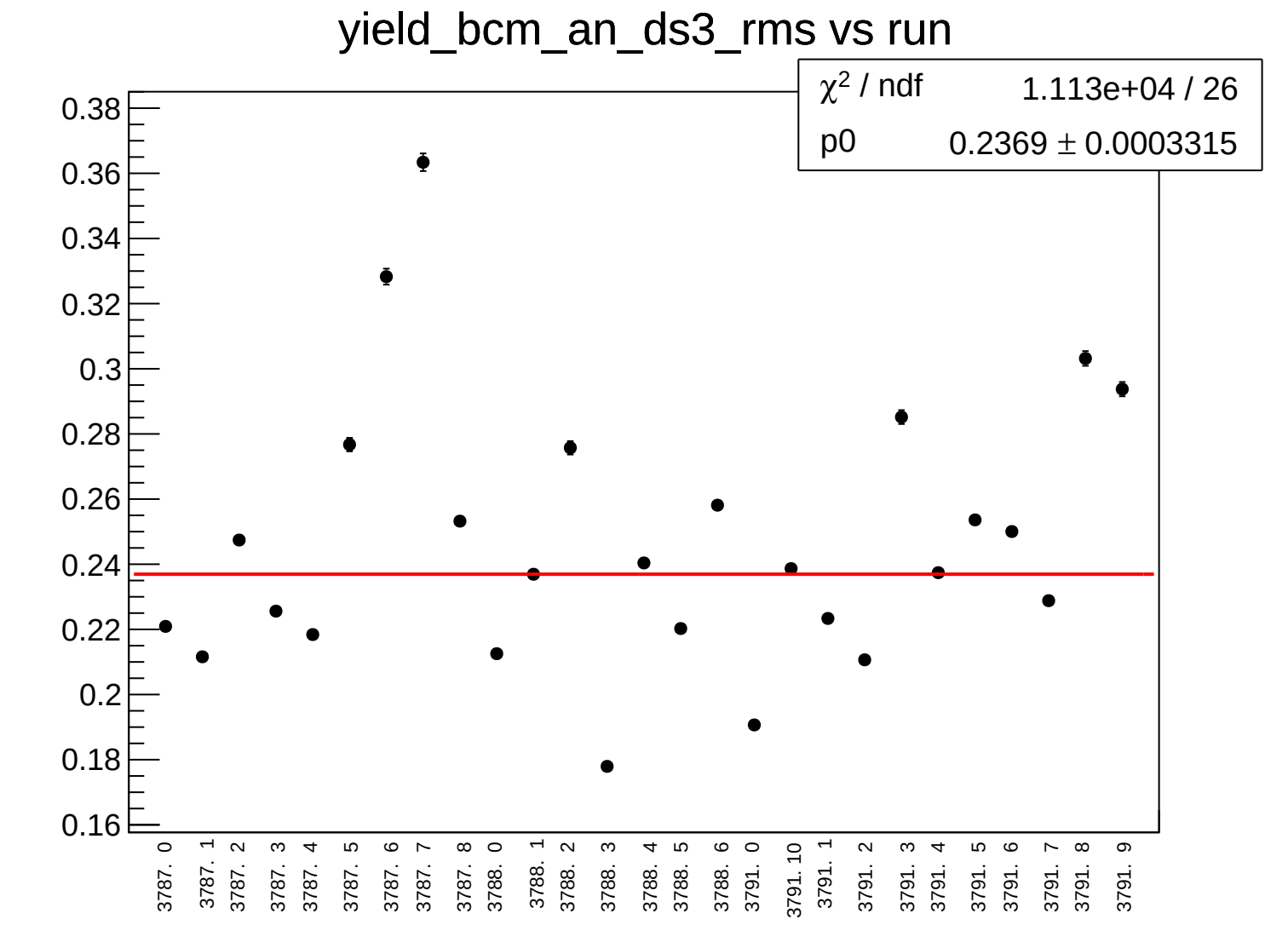

yield_bcm_an_ds_mean vs run
χ² / ndf 3.597e+04 / 26
p0 69.17 ± 0.0004571
69.35
69.3
69.25
69.2
69.15
69.1
69.05
69
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −218.7
Std Dev 229.5
60
40
20
0
−20
−40
−60
−80

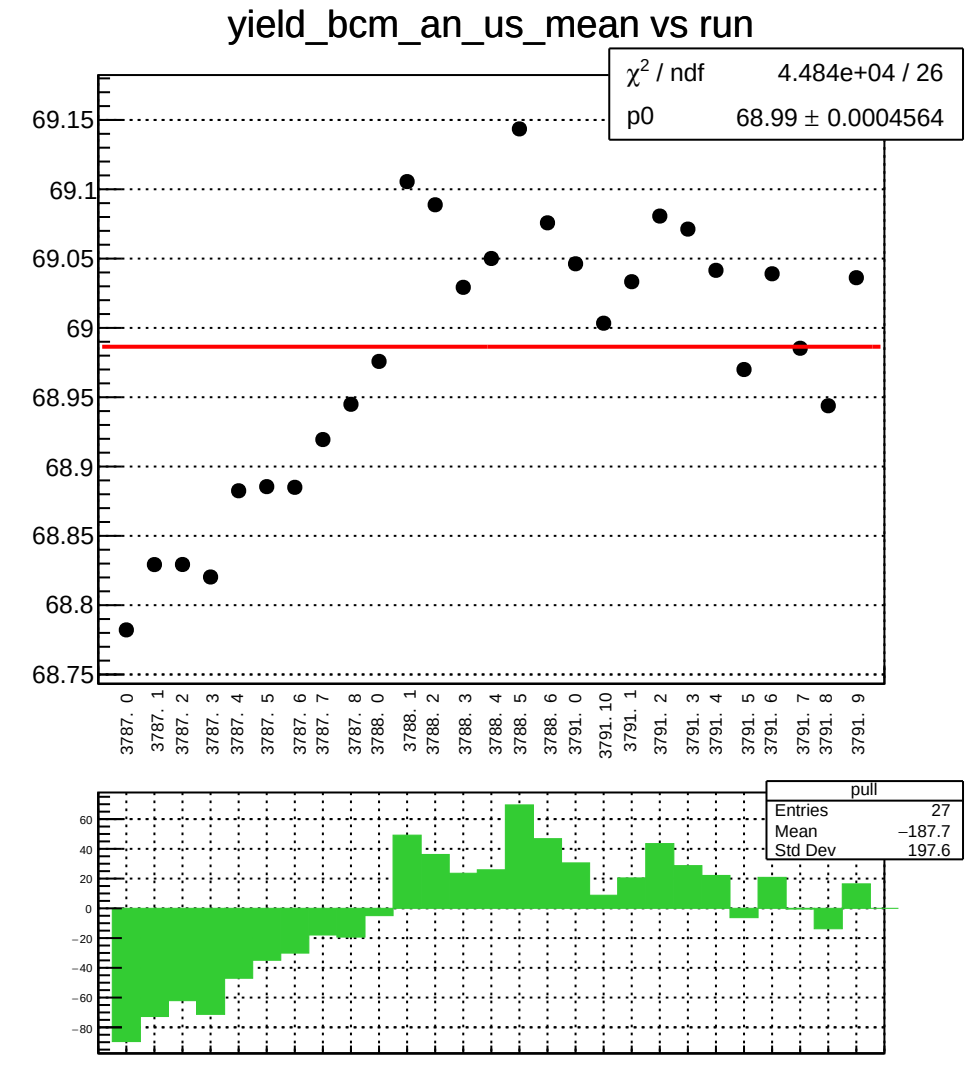

pull1D
Entries 27
Mean 2.928
Std Dev 4.804
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

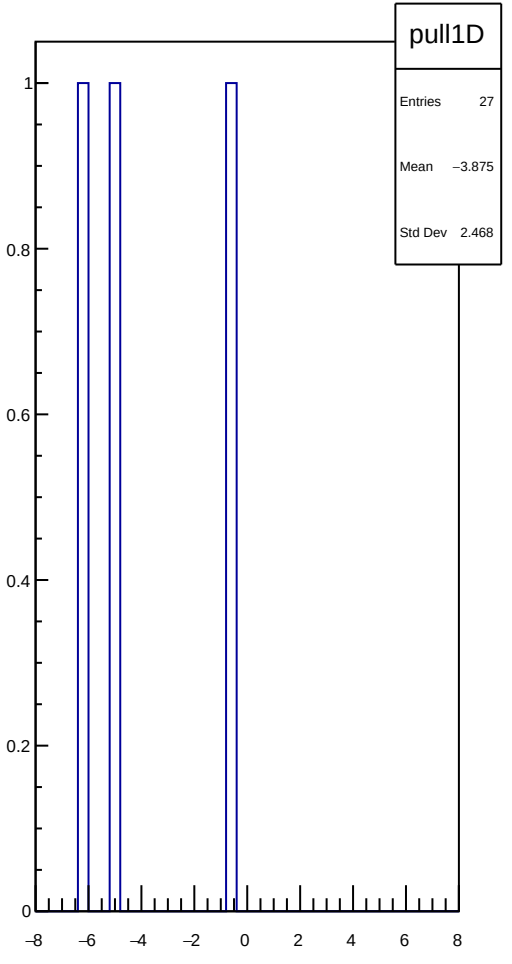

yield_bcm_an_ds_rms vs run
χ² / ndf 1.118e+04 / 26
p0 0.231 ± 0.0003232
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

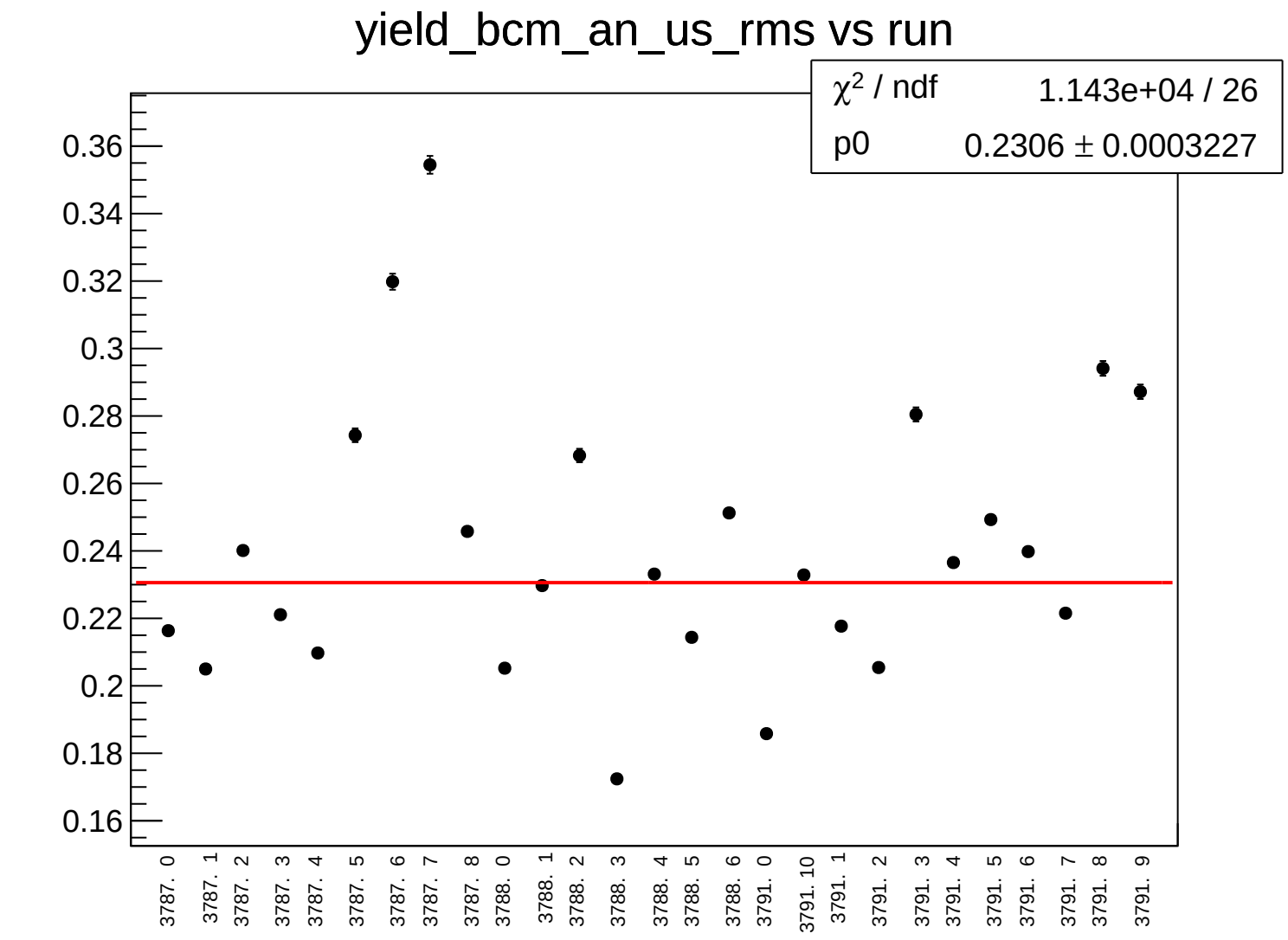

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.355e+04 / 26
p0 69.71± 0.0004688
69.9
69.85
69.8
69.75
69.7
69.65
69.6
69.55
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −205.2
Std Dev 216.1
60
40
20
0
−20
−40
−60
−80

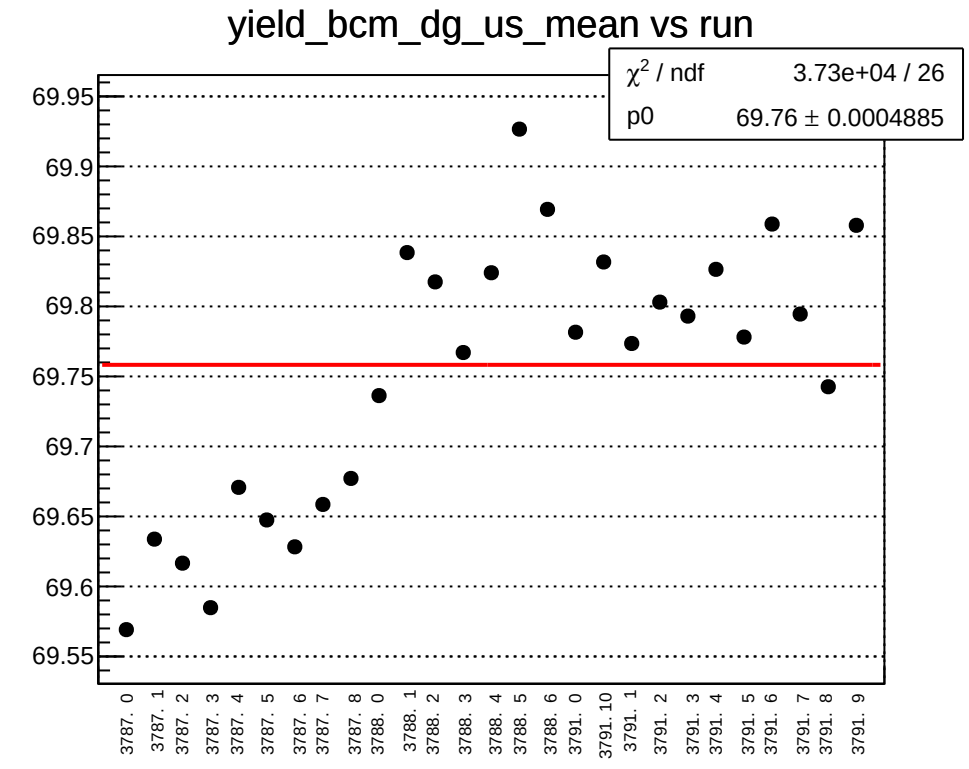

pull1D
Entries 27
Mean 1.784
Std Dev 4.946
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

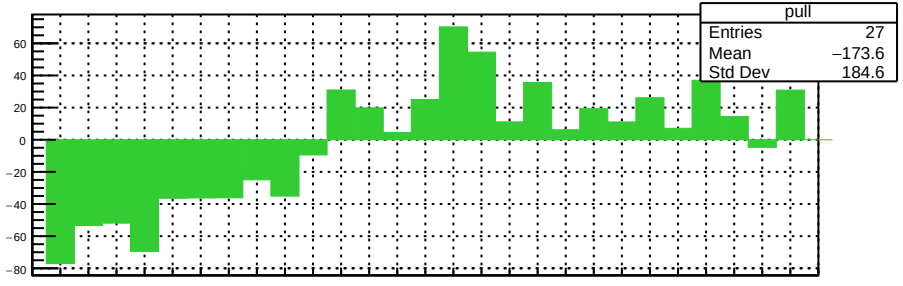

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.113e+04 / 26
p0 0.2369 ± 0.0003315
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

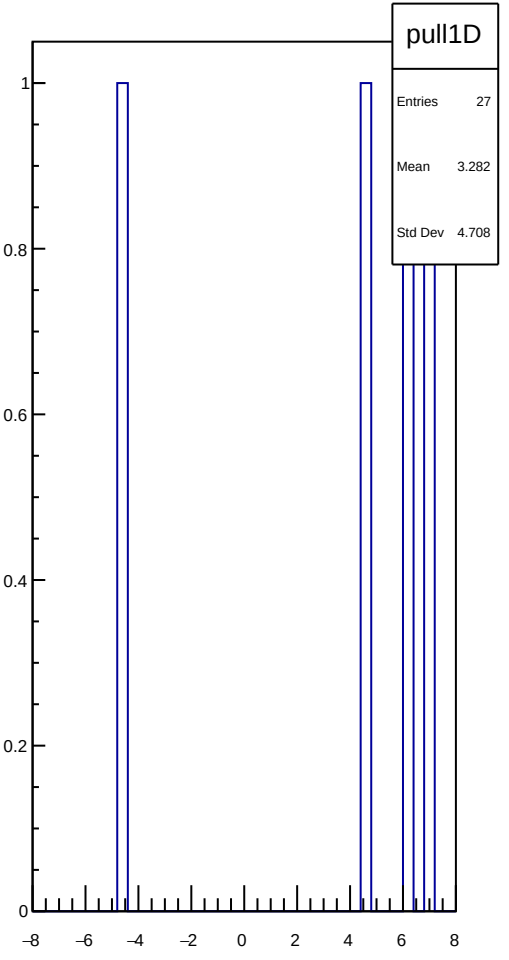

yield_bcm_an_us_mean vs run
χ² / ndf 4.484e+04 / 26
p0 68.99 ± 0.0004564
69.15
69.1
69.05
69
68.95
68.9
68.85
68.8
68.75
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −187.7
Std Dev 197.6
60
40
20
0
−20
−40
−60
−80

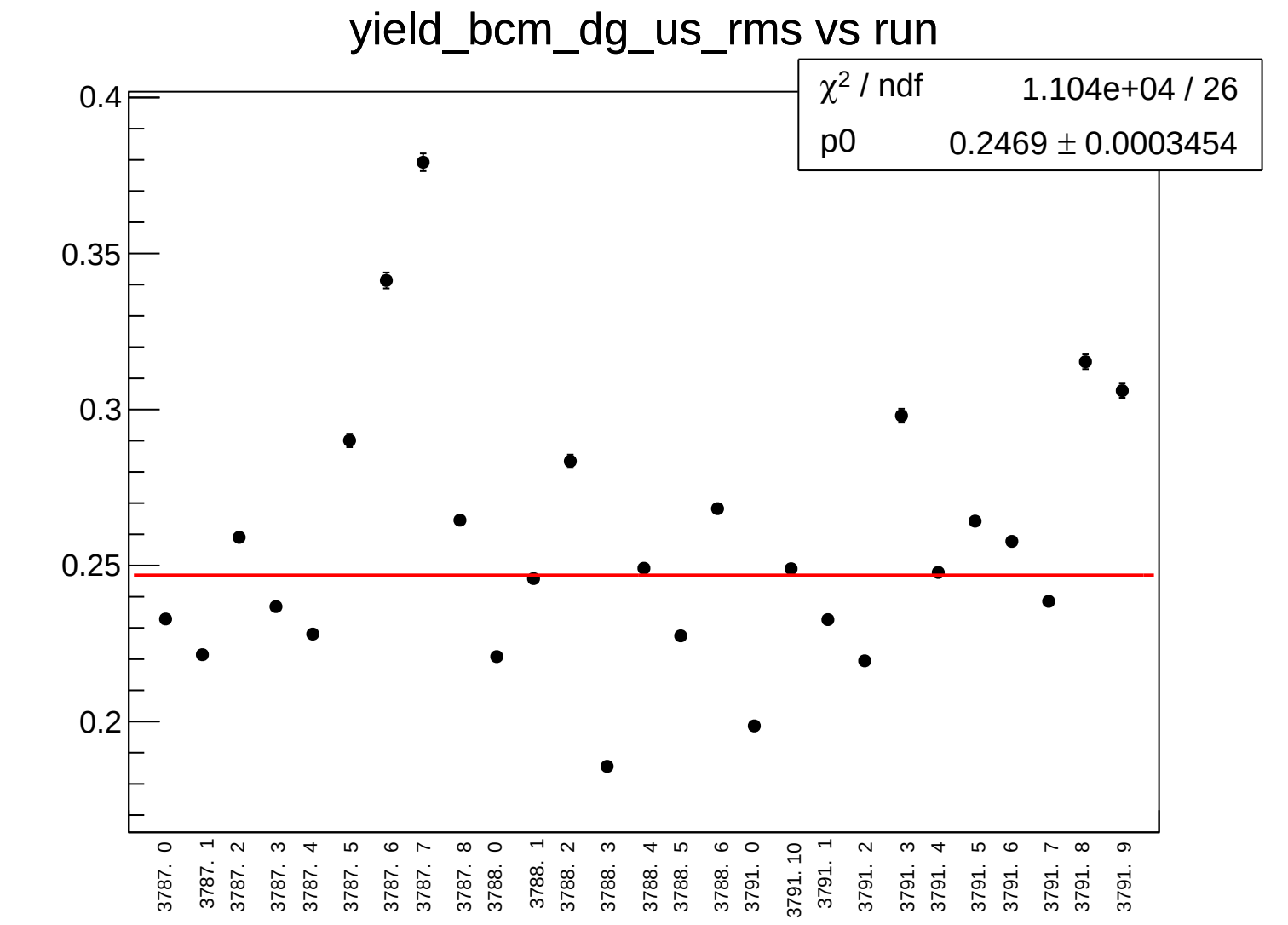

pull1D
Entries 27
Mean −3.875
Std Dev 2.468
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

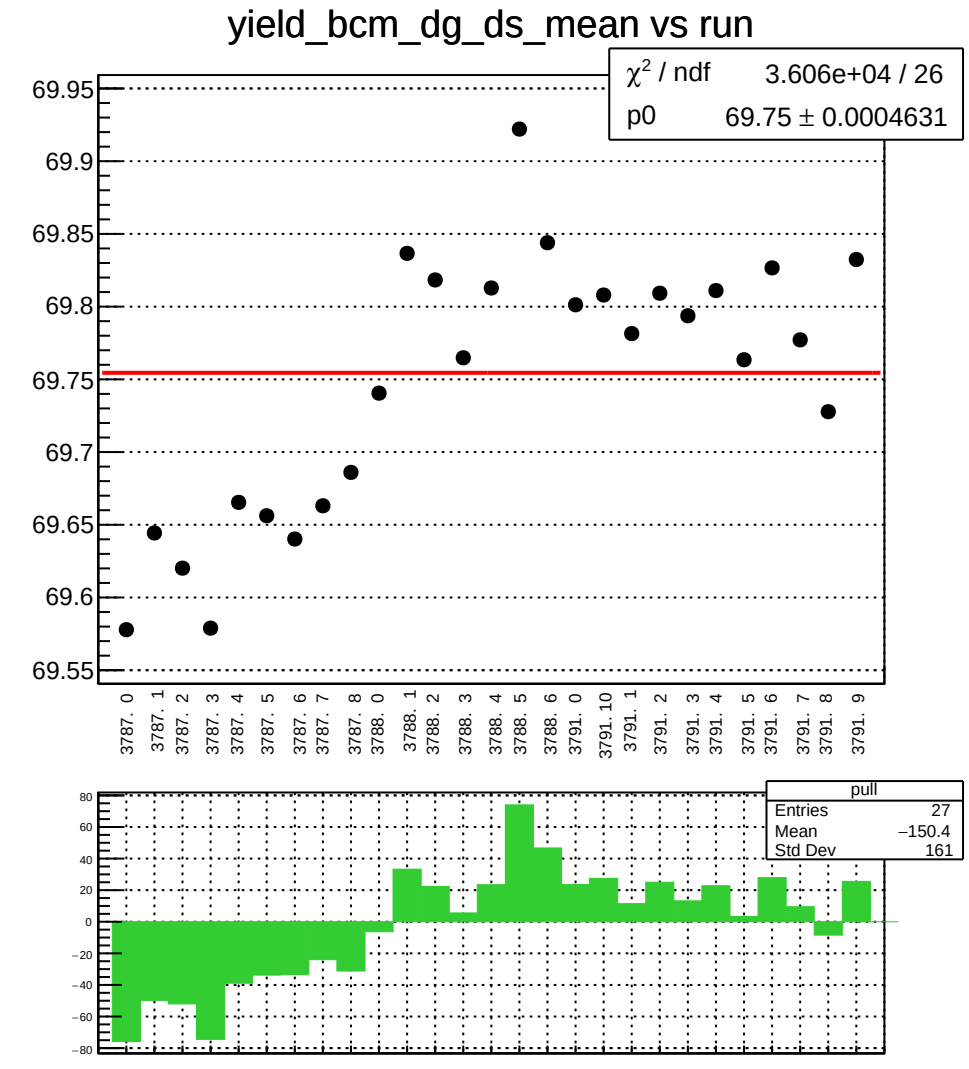

yield_bcm_an_us_rms vs run
χ2 / ndf 1.143e+04 / 26
p0 0.2306 ± 0.0003227
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

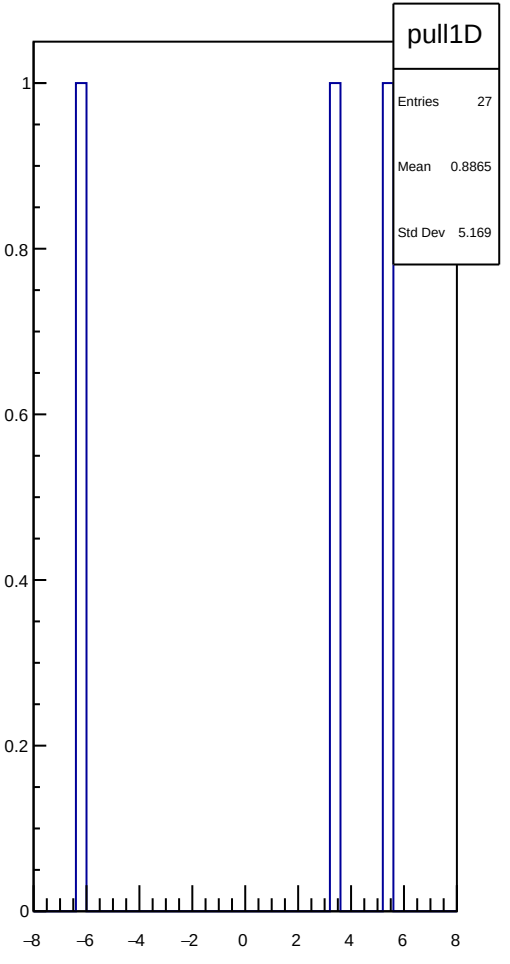

yield_bcm_dg_us_mean vs run
χ² / ndf 3.73e+04 / 26
p0 69.76 ± 0.0004885
69.95
69.9
69.85
69.8
69.75
69.7
69.65
69.6
69.55
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

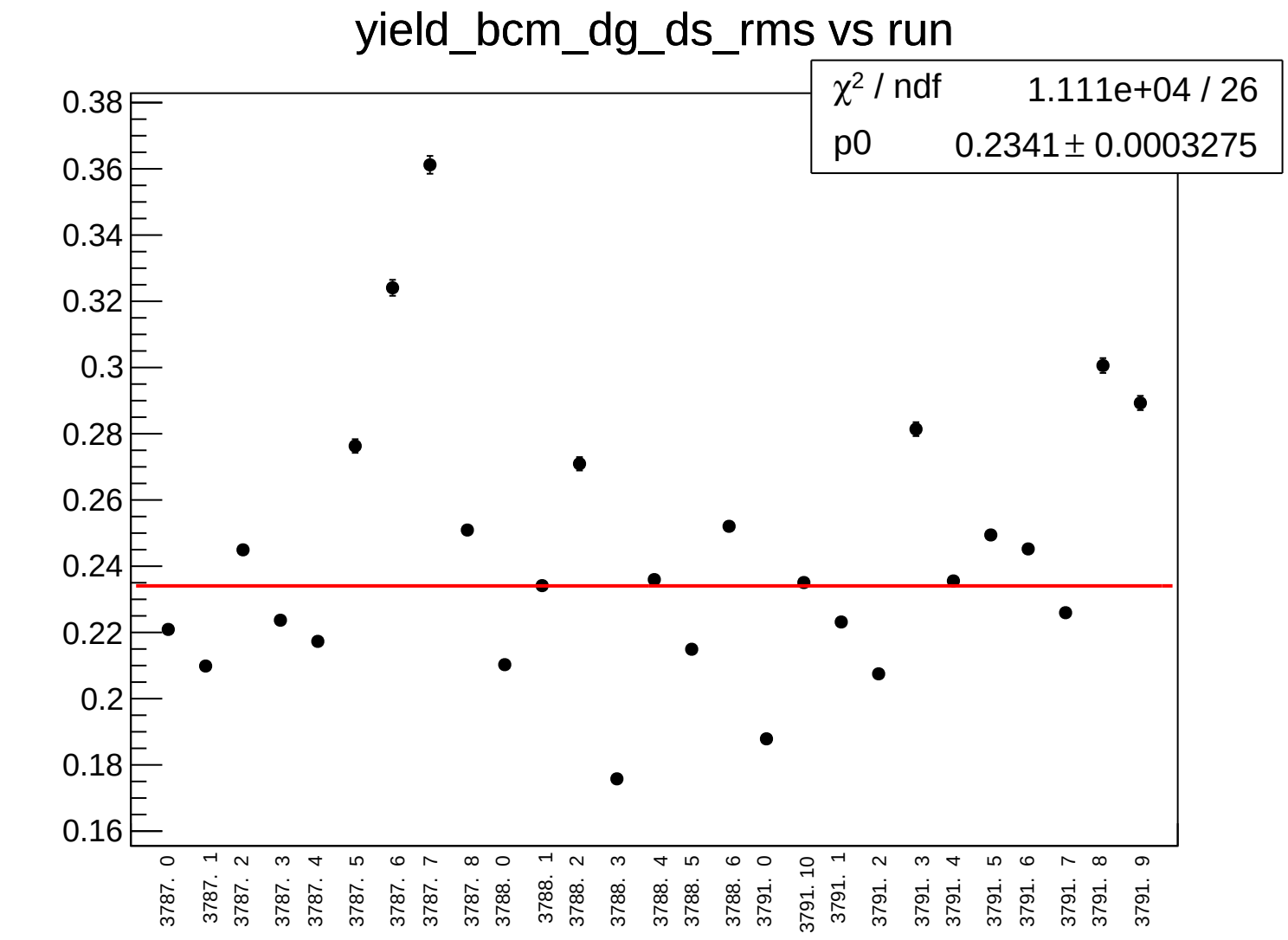

pull
Entries 27
Mean −173.6
Std Dev 184.6
60
40
20
0
−20
−40
−60
−80

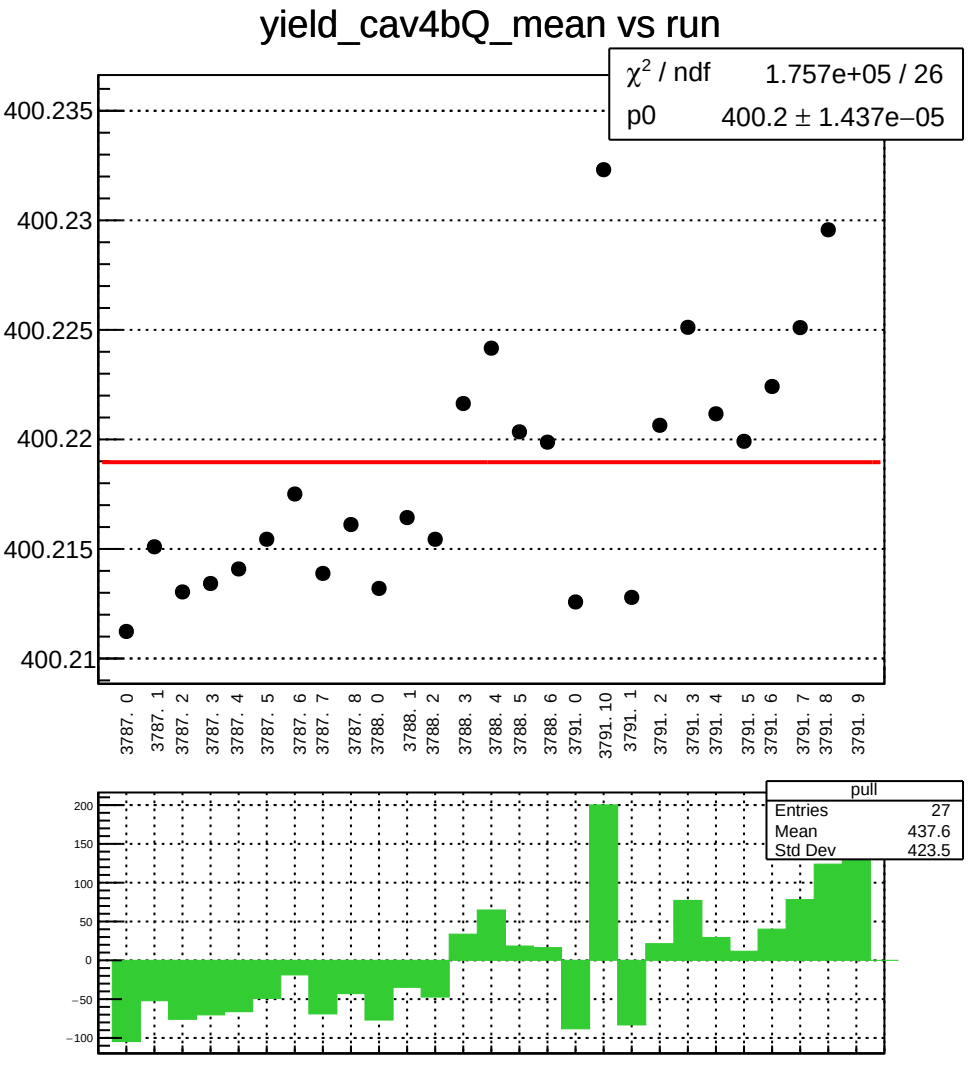

pull1D
Entries 27
Mean 3.282
Std Dev 4.708
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

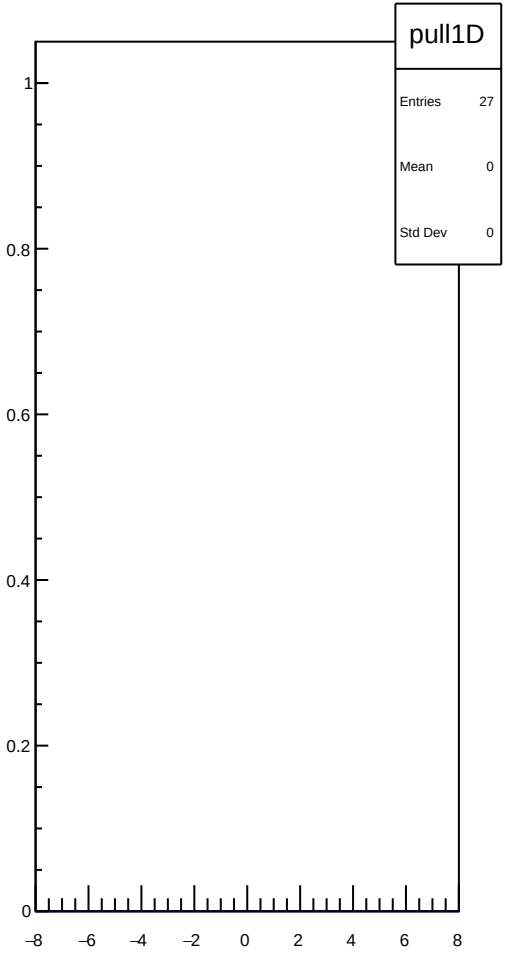

yield_bcm_dg_us_rms vs run
χ² / ndf 1.104e+04 / 26
p0 0.2469 ± 0.0003454
0.4
0.35
0.3
0.25
0.2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

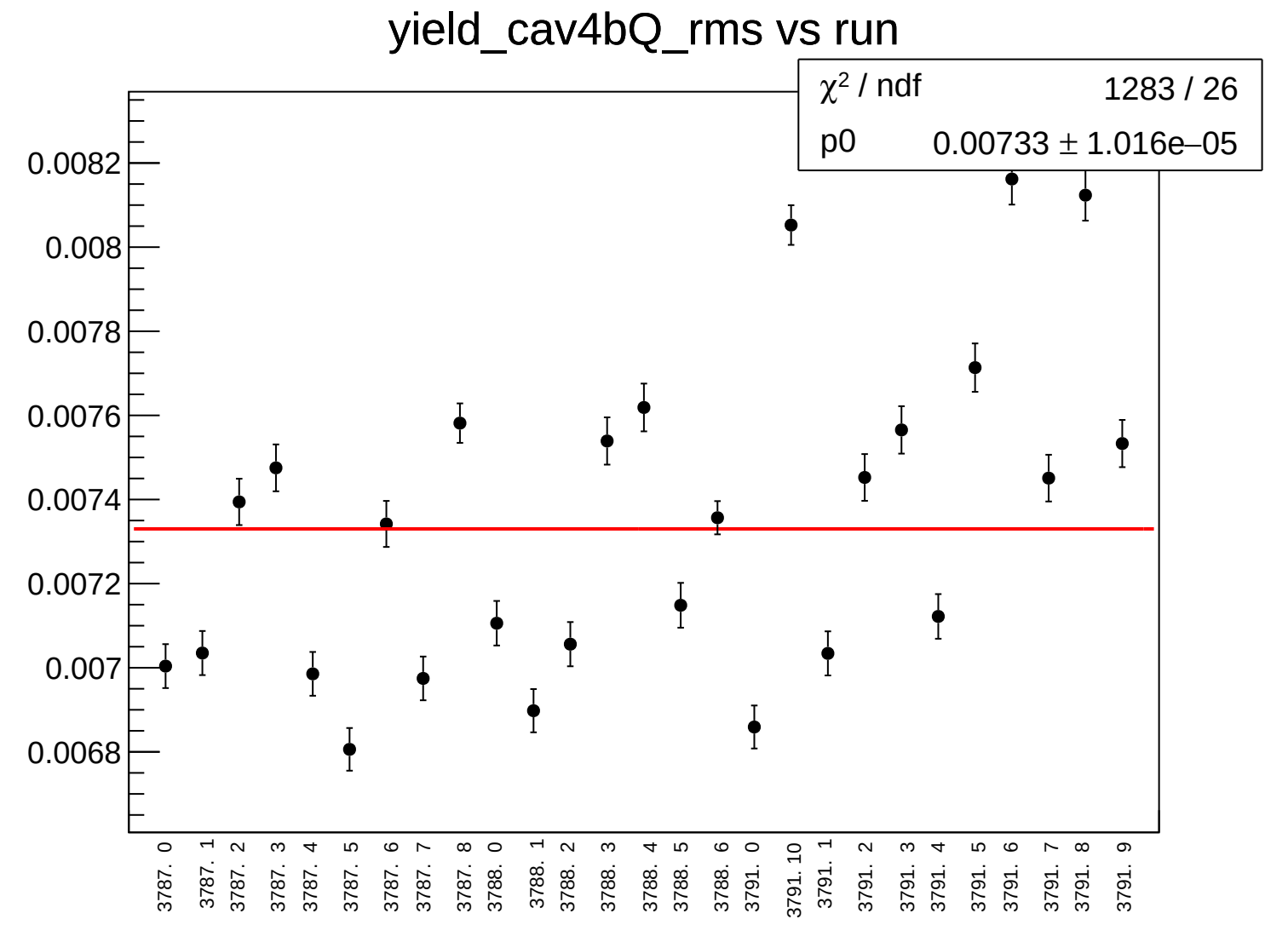

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.606e+04 / 26
p0 69.75 ± 0.0004631
69.95
69.9
69.85
69.8
69.75
69.7
69.65
69.6
69.55
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −150.4
Std Dev 161
80
60
40
20
0
−20
−40
−60
−80

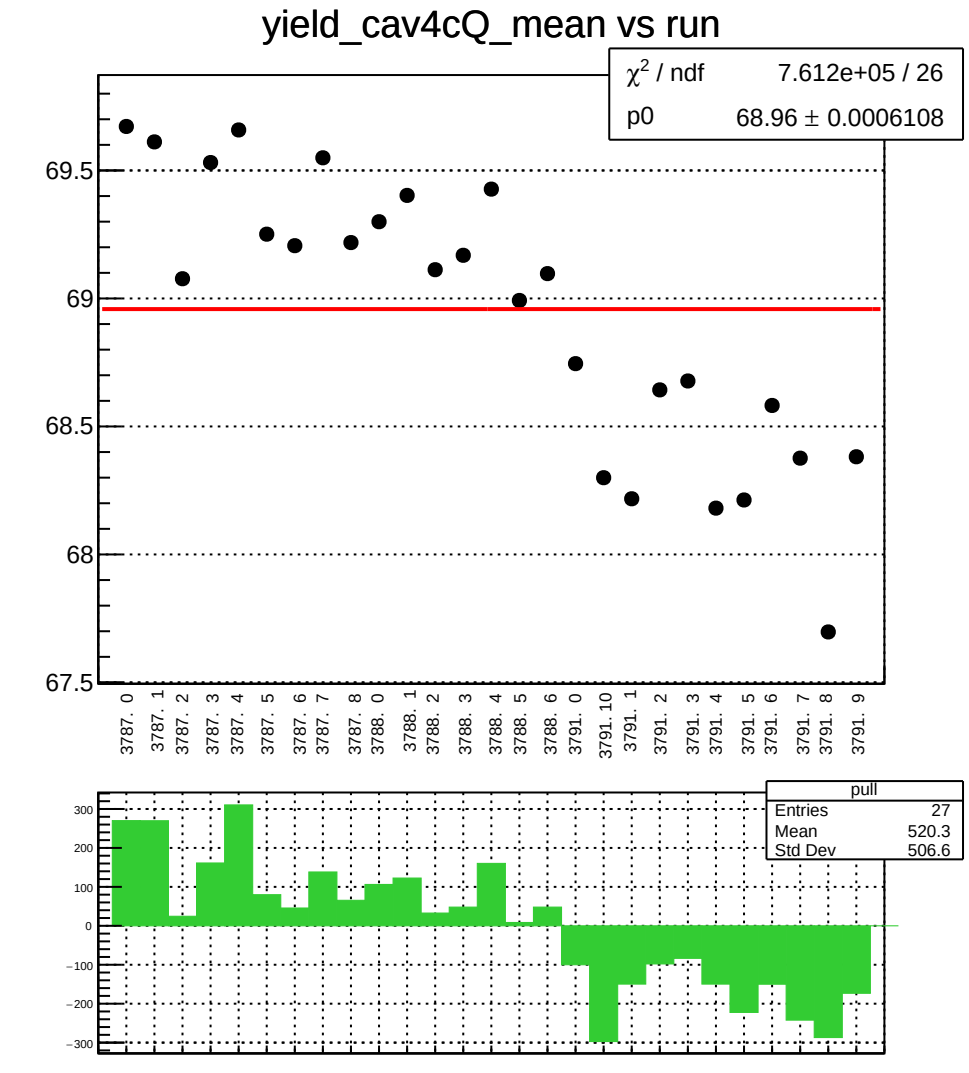

pull1D
Entries 27
Mean 0.8865
Std Dev 5.169
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

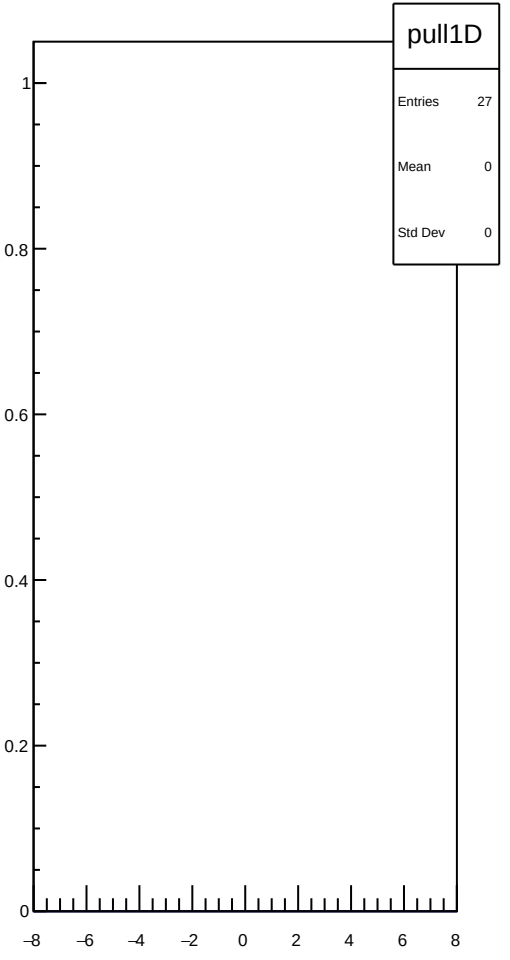

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.111e+04 / 26
p0 0.2341 ± 0.0003275
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

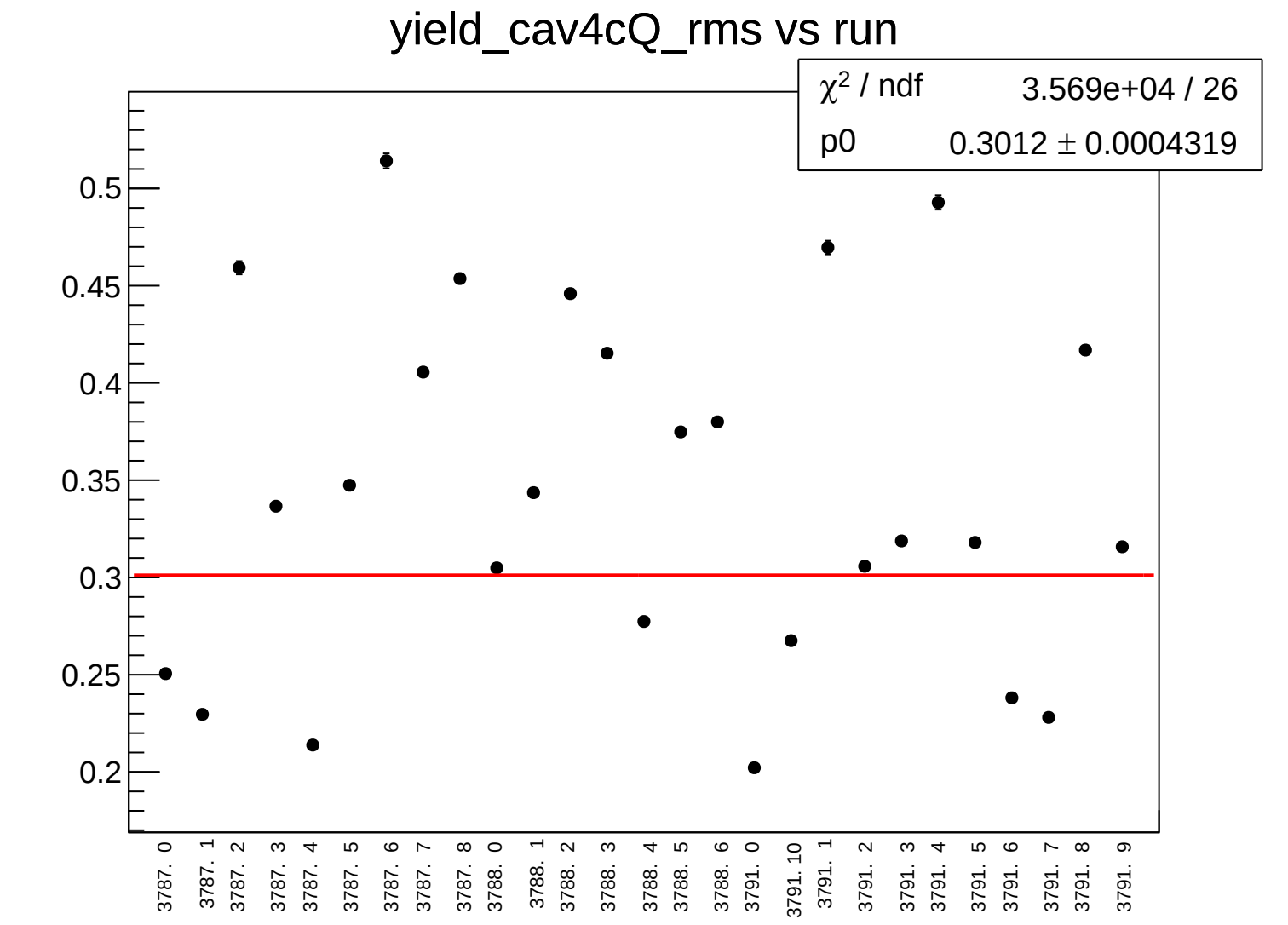

yield_cav4bQ_mean vs run
χ² / ndf 1.757e+05 / 26
p0 400.2 ± 1.437e−05
400.235
400.23
400.225
400.22
400.215
400.21
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 437.6
Std Dev 423.5
200
150
100
50
0
−50
−100

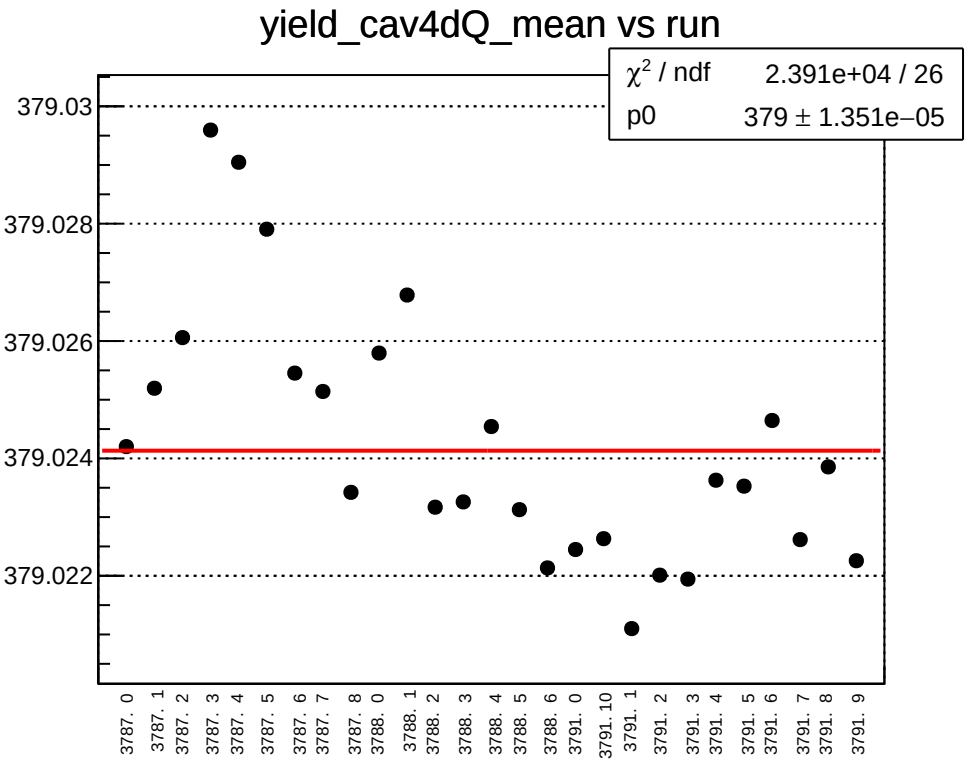

pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

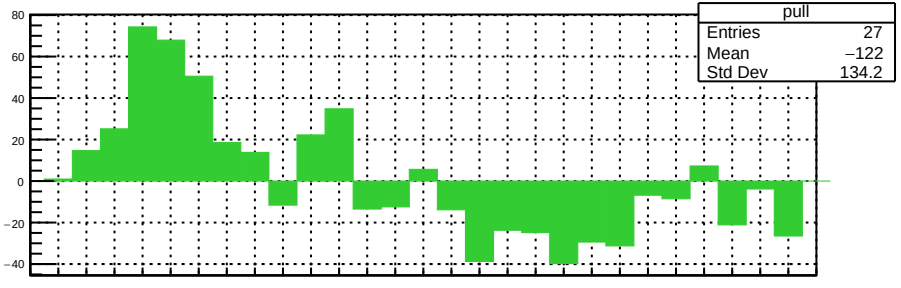

yield_cav4bQ_rms vs run
χ² / ndf 1283 / 26
p0 0.00733 ± 1.016e–05
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

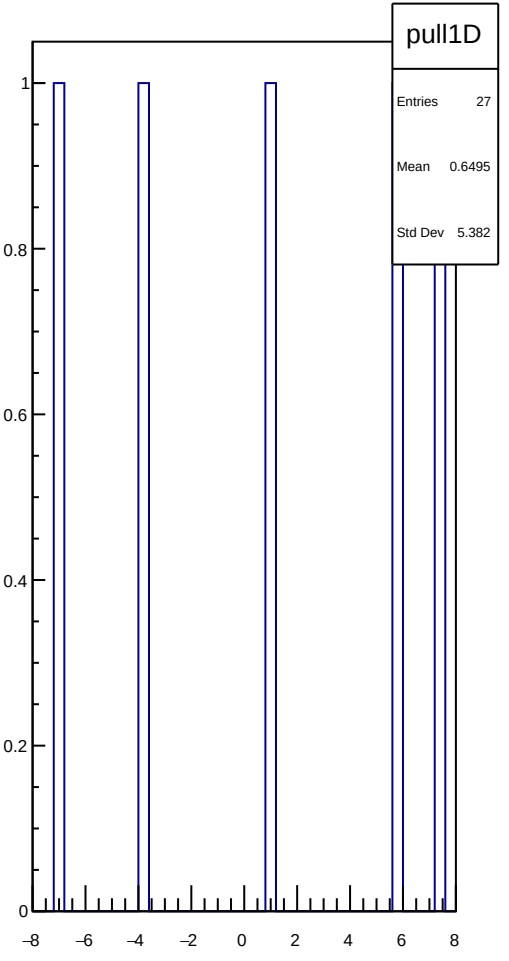

yield_cav4cQ_mean vs run
χ² / ndf 7.612e+05 / 26
p0 68.96 ± 0.0006108
69.5
69
68.5
68
67.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 520.3
Std Dev 506.6
300
200
100
0
−100
−200
−300

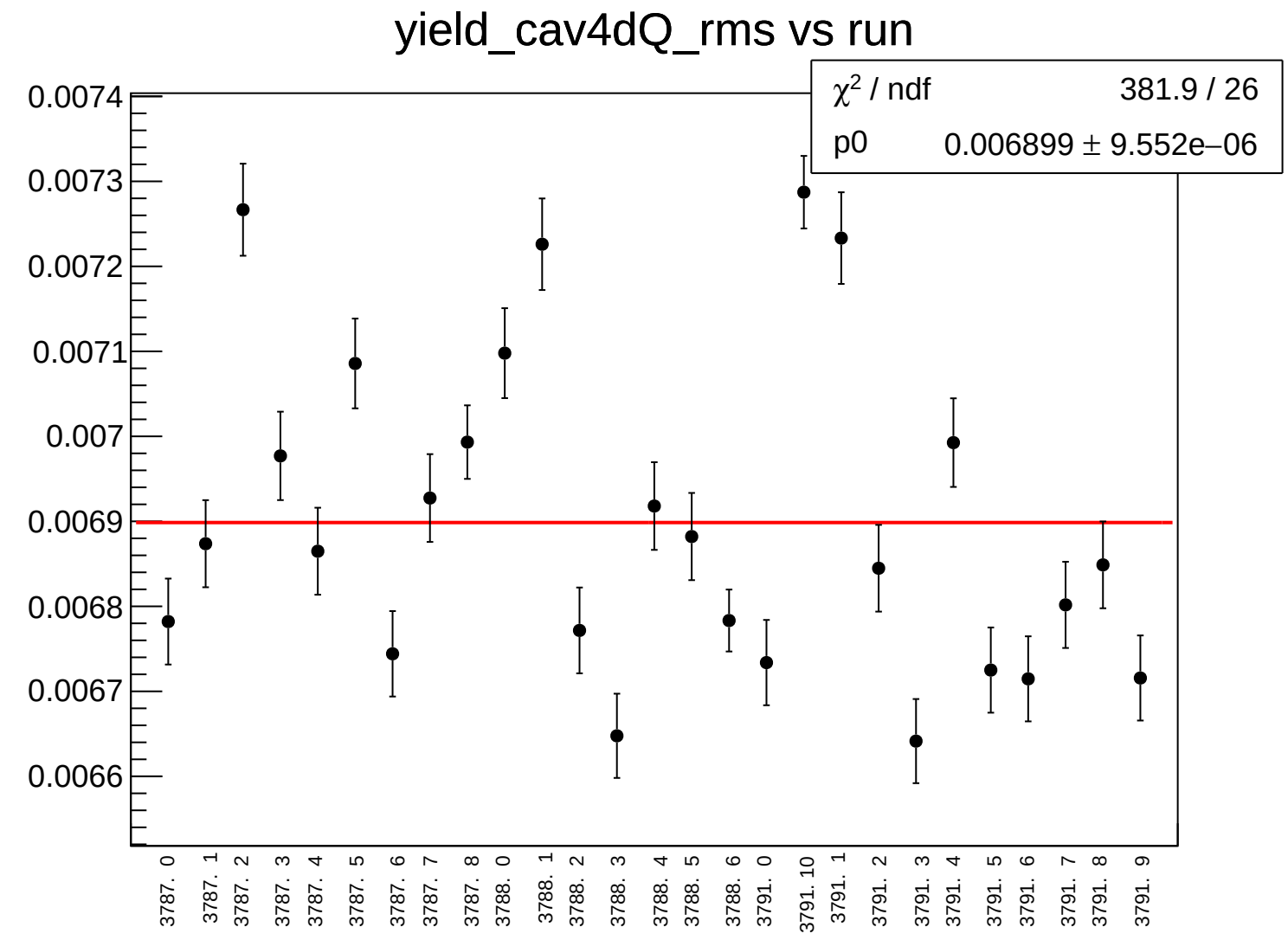

pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

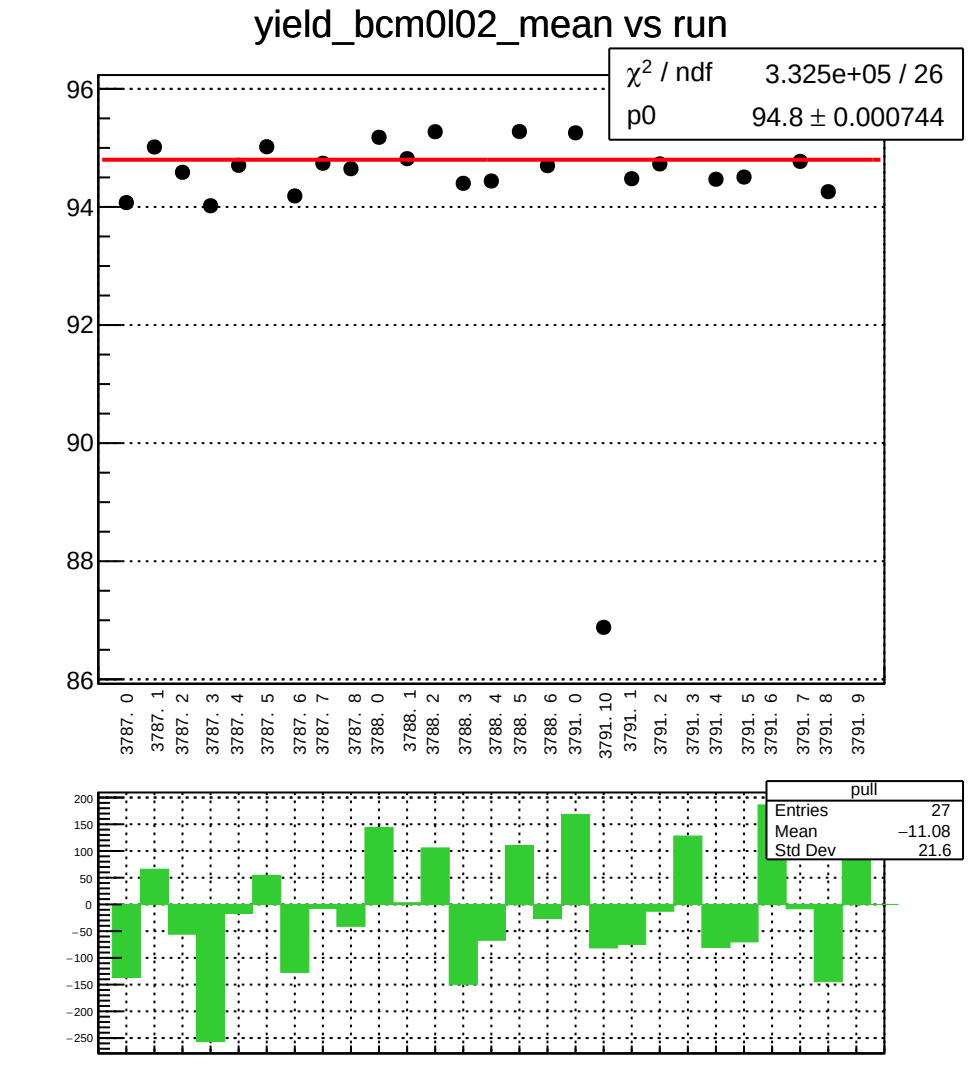

yield_cav4cQ_rms vs run
χ² / ndf 3.569e+04 / 26
p0 0.3012 ± 0.0004319
0.5
0.45
0.4
0.35
0.3
0.25
0.2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

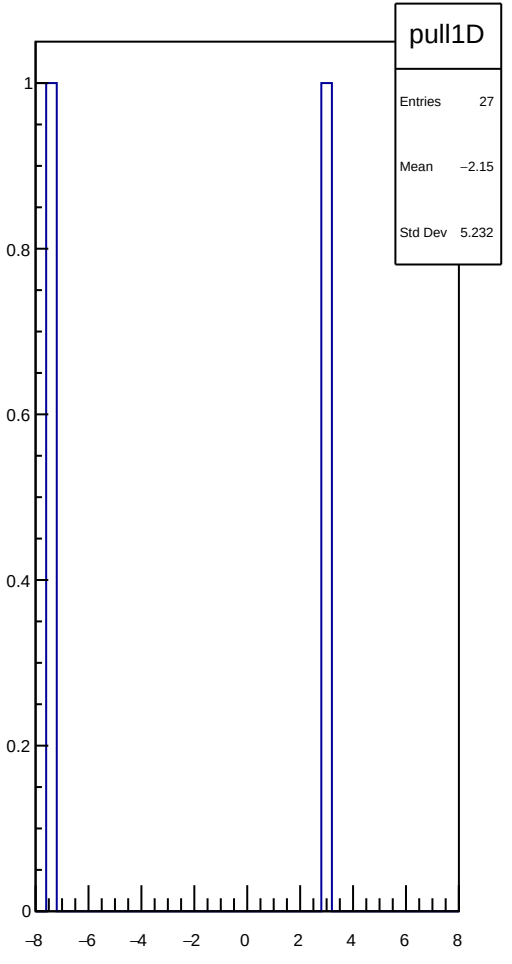

yield_cav4dQ_mean vs run
χ² / ndf 2.391e+04 / 26
p0 379 ± 1.351e−05
379.03
379.028
379.026
379.024
379.022
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

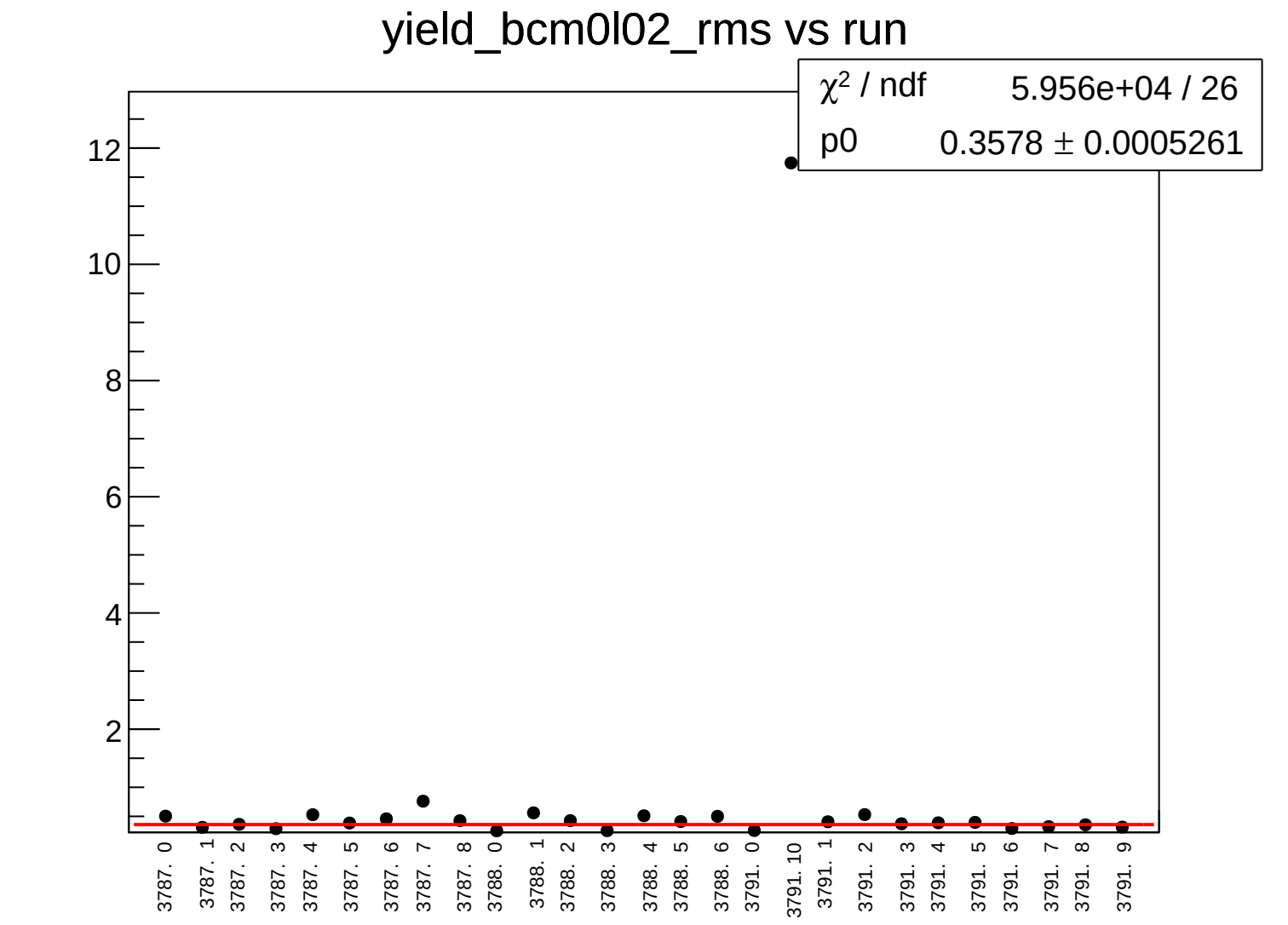

pull
Entries 27
Mean −122
Std Dev 134.2
80
60
40
20
0
−20
−40

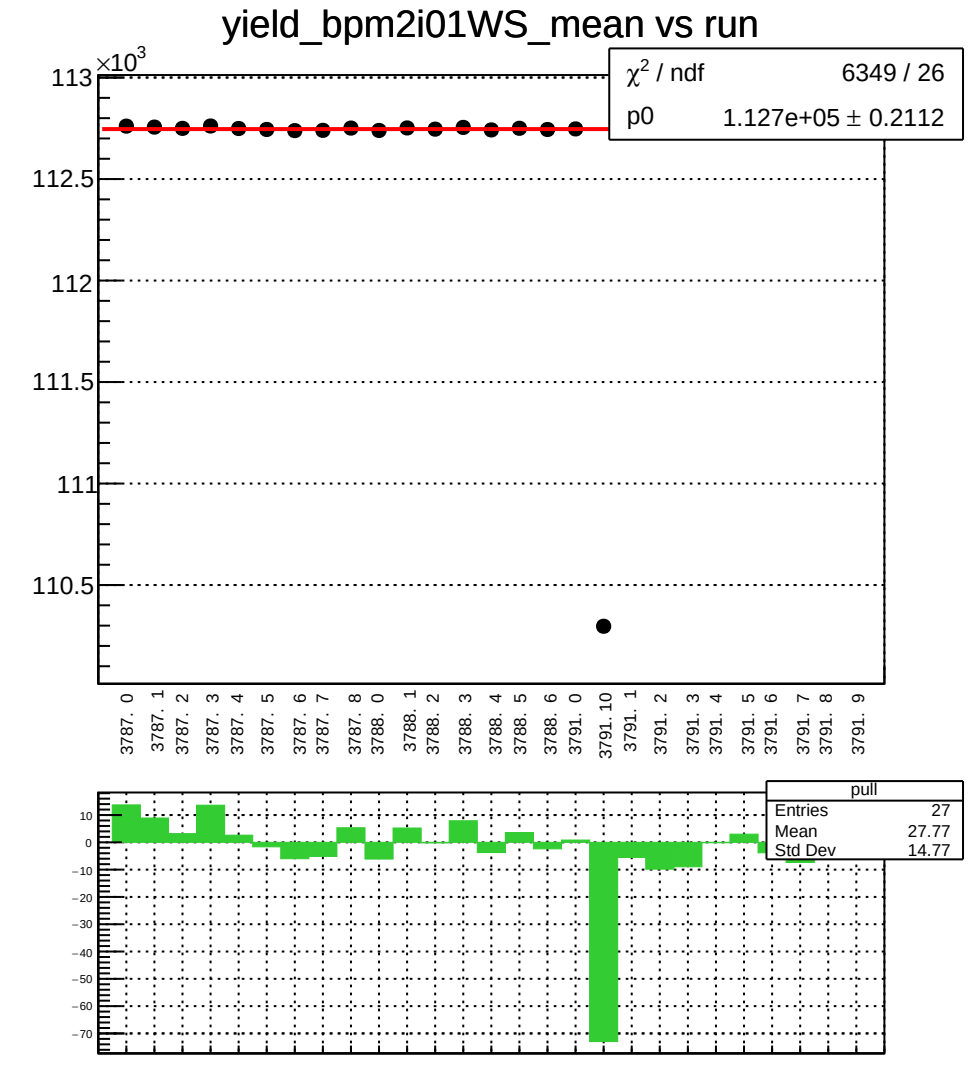

pull1D
Entries 27
Mean 0.6495
Std Dev 5.382
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

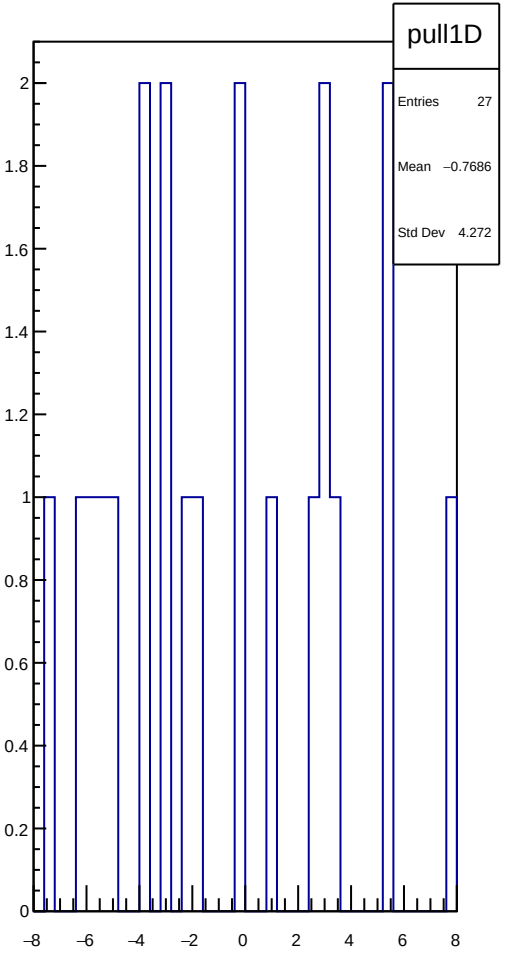

yield_cav4dQ_rms vs run
χ² / ndf 381.9 / 26
p0 0.006899 ± 9.552e−06
0.0074
0.0073
0.0072
0.0071
0.007
0.0069
0.0068
0.0067
0.0066
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

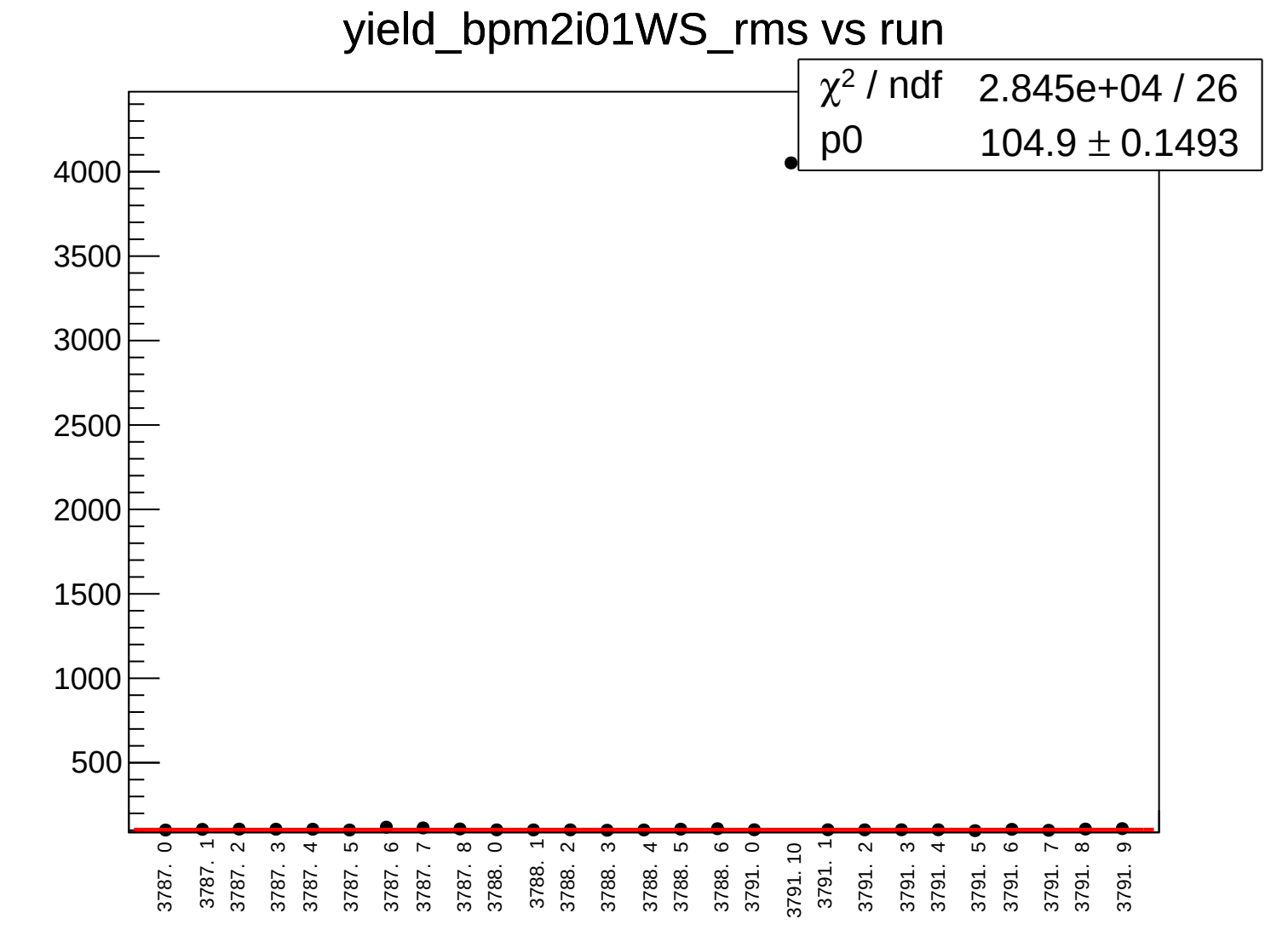

yield_bcm0l02_mean vs run
χ² / ndf 3.325e+05 / 26
p0 94.8 ± 0.000744
96
94
92
90
88
86
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −11.08
Std Dev 21.6
200
150
100
50
0
−50
−100
−150
−200
−250

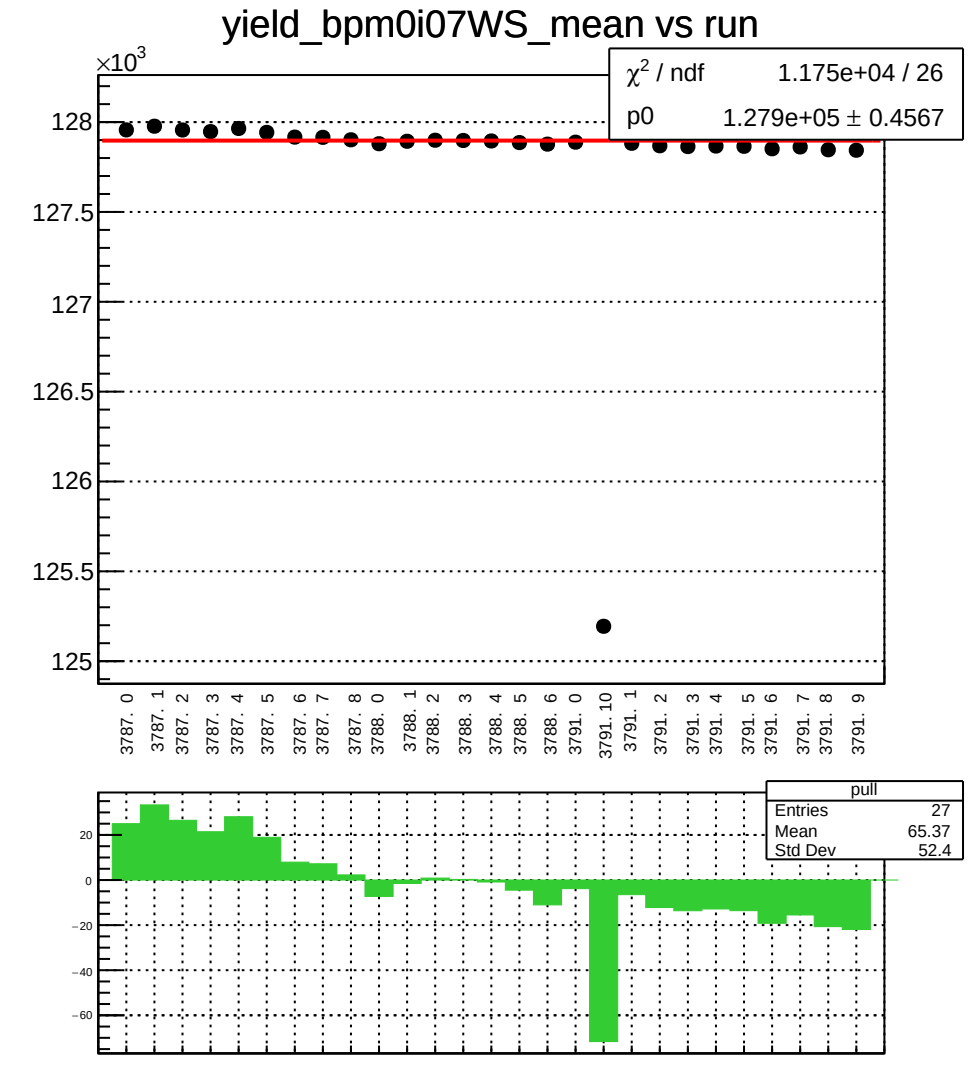

pull1D
Entries 27
Mean −2.15
Std Dev 5.232
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

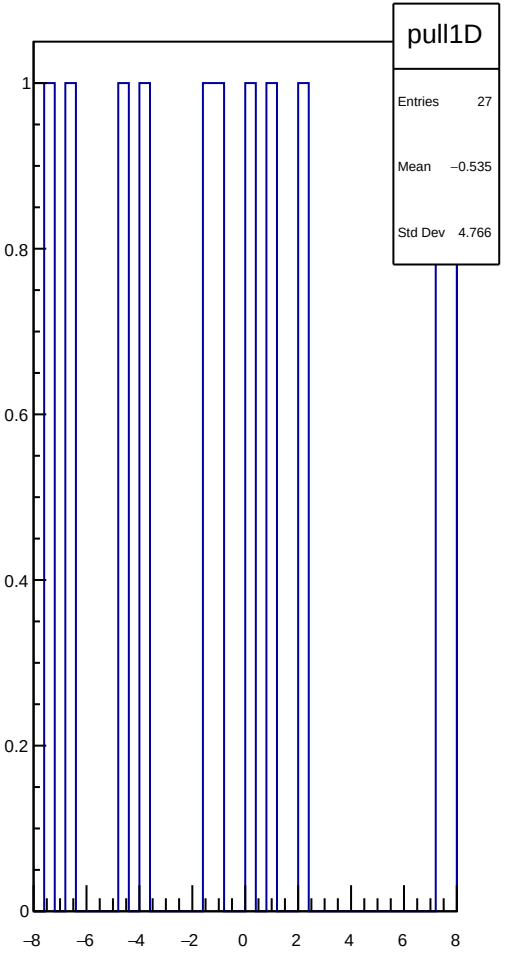

yield_bcm0l02_rms vs run
χ² / ndf 5.956e+04 / 26
p0 0.3578 ± 0.0005261
12
10
8
6
4
2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

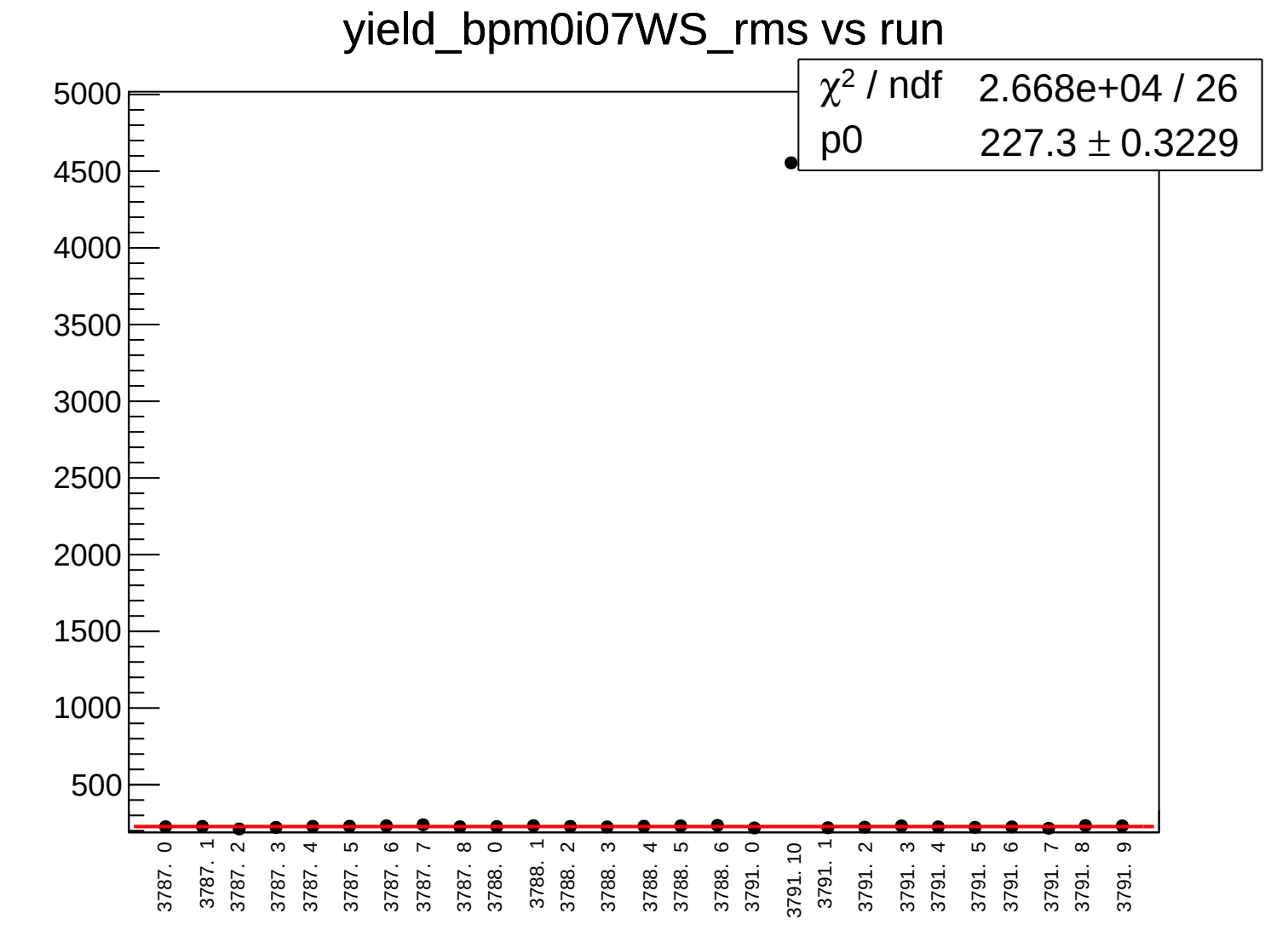

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 6349 / 26
p0 1.127e+05 ± 0.2112
113
112.5
112
111.5
111
110.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 27.77
Std Dev 14.77
10
0
−10
−20
−30
−40
−50
−60
−70

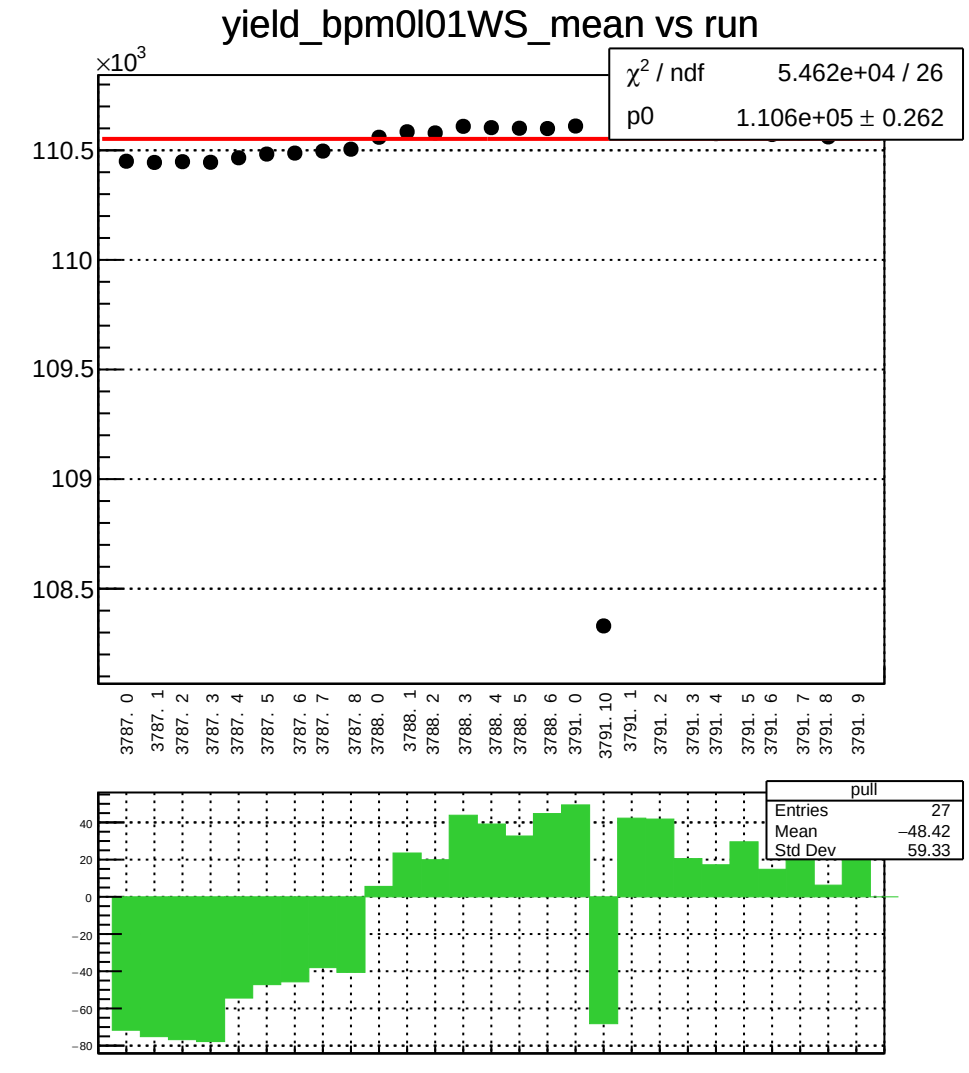

pull1D
Entries 27
Mean −0.7686
Std Dev 4.272
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

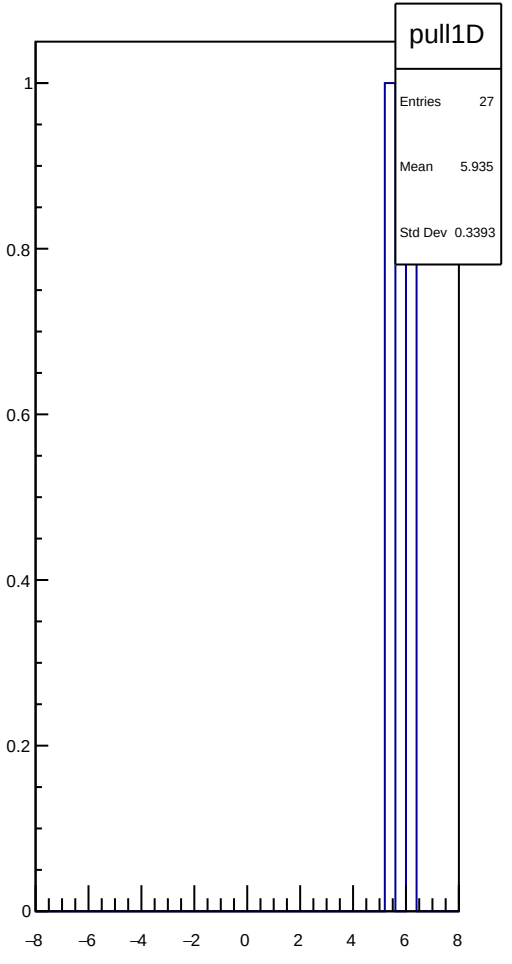

yield_bpm2i01WS_rms vs run
χ² / ndf 2.845e+04 / 26
p0 104.9 ± 0.1493
4000
3500
3000
2500
2000
1500
1000
500
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

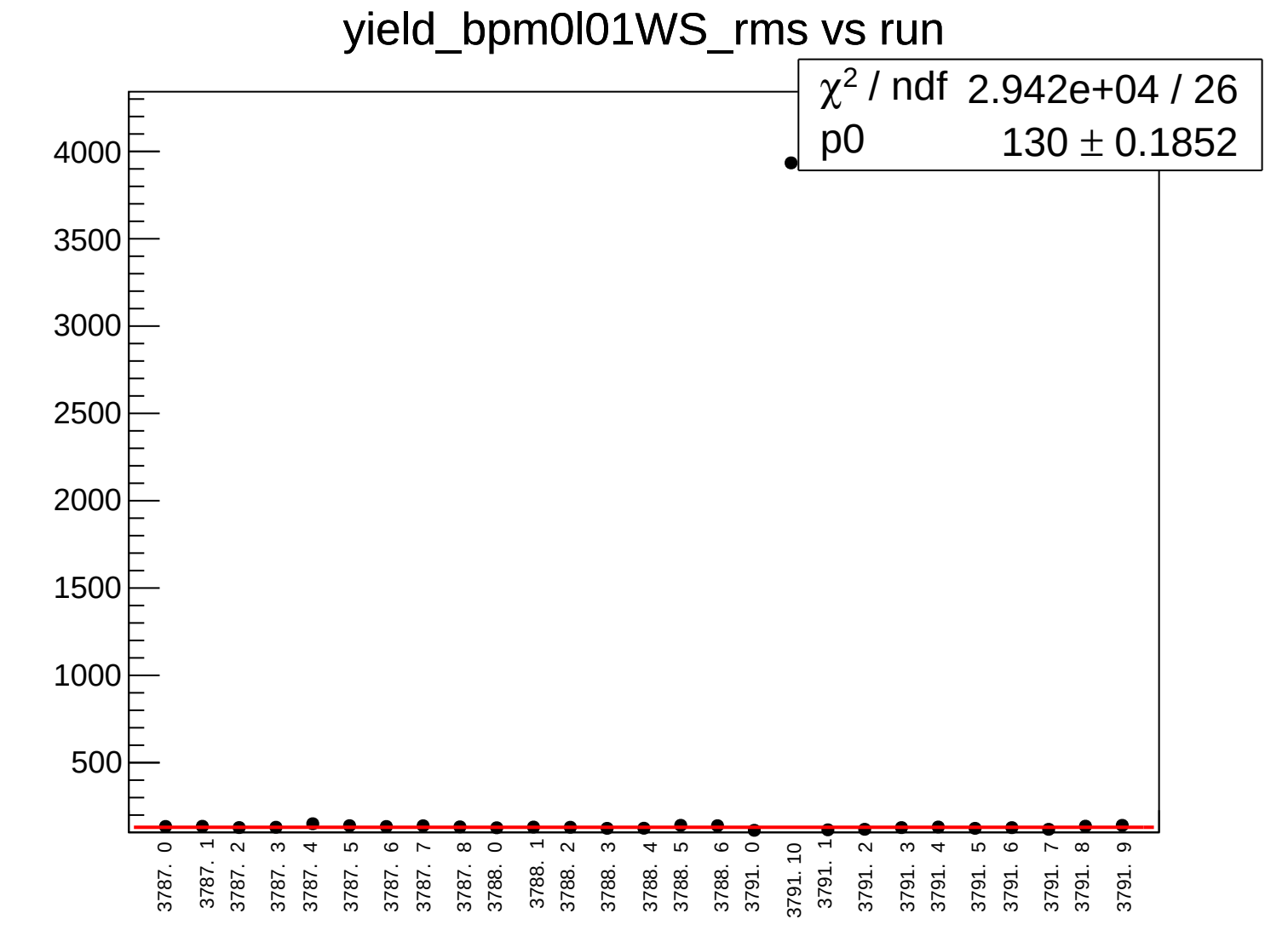

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 1.175e+04 / 26
p0 1.279e+05 ± 0.4567
128
127.5
127
126.5
126
125.5
125
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 65.37
Std Dev 52.4
20
0
−20
−40
−60

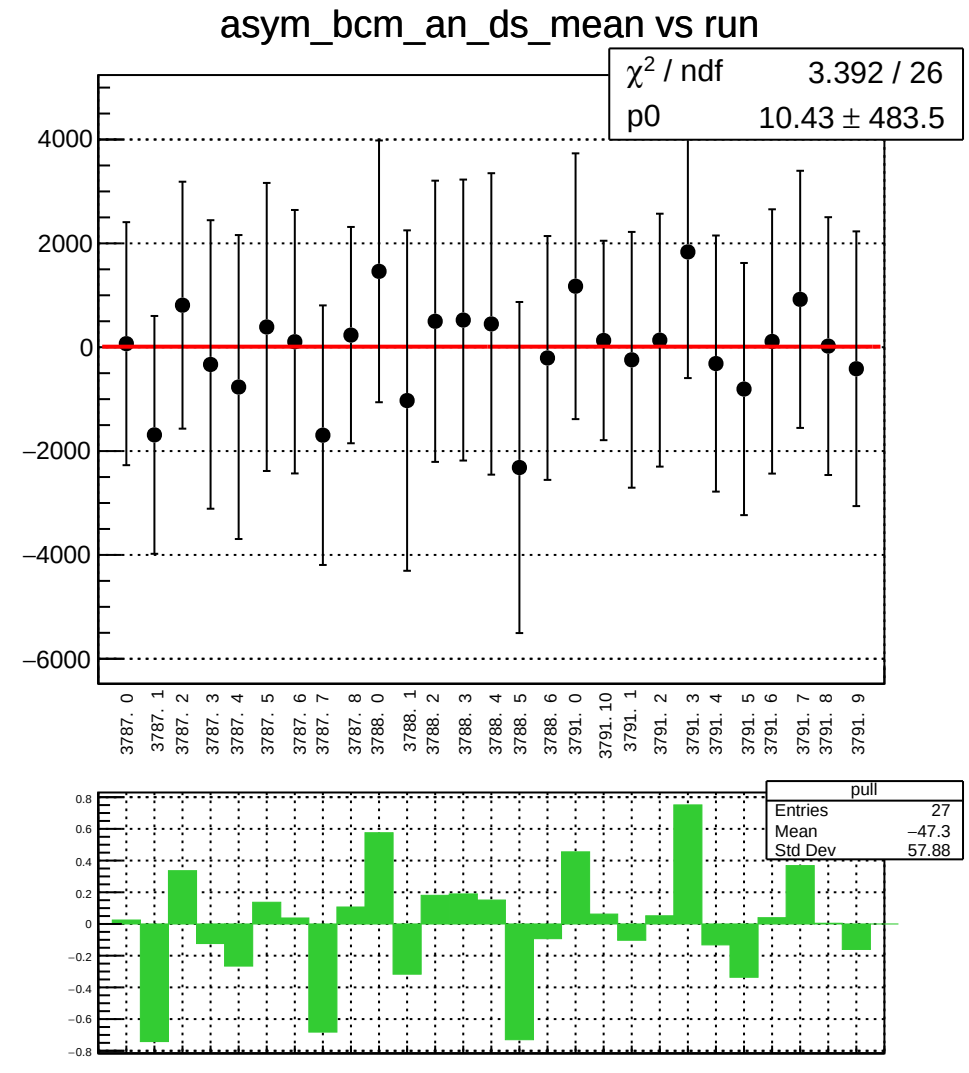

pull1D
Entries 27
Mean −0.535
Std Dev 4.766
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

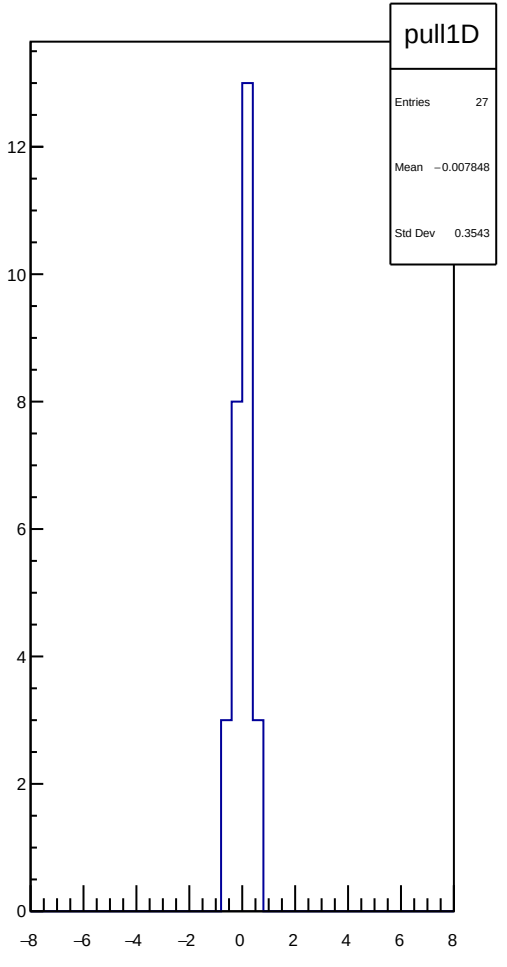

yield_bpm0i07WS_rms vs run
χ² / ndf 2.668e+04 / 26
p0 227.3 ± 0.3229
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

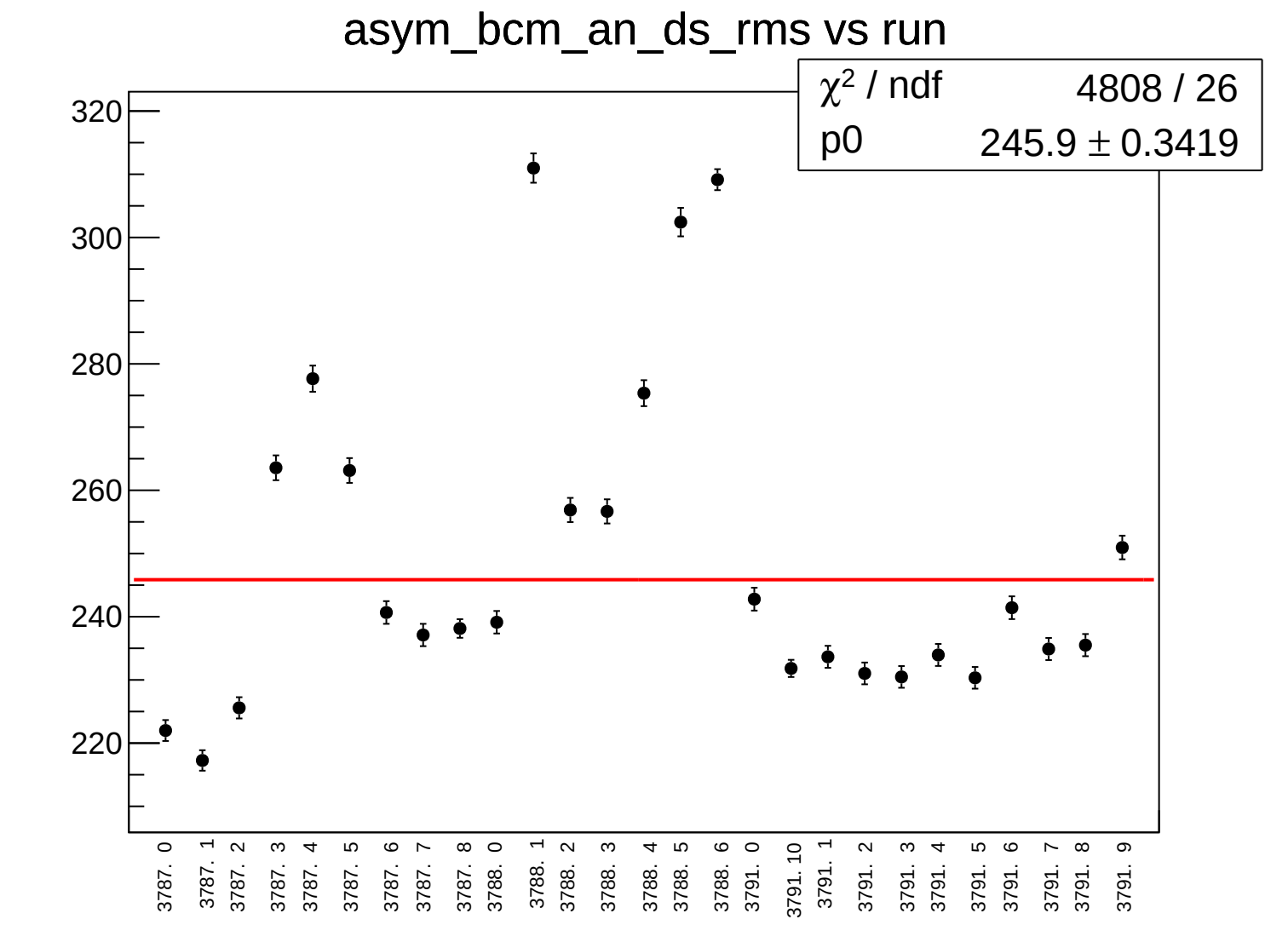

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 5.462e+04 / 26
p0 1.106e+05 ± 0.262
110.5
110
109.5
109
108.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −48.42
Std Dev 59.33
40
20
0
−20
−40
−60
−80

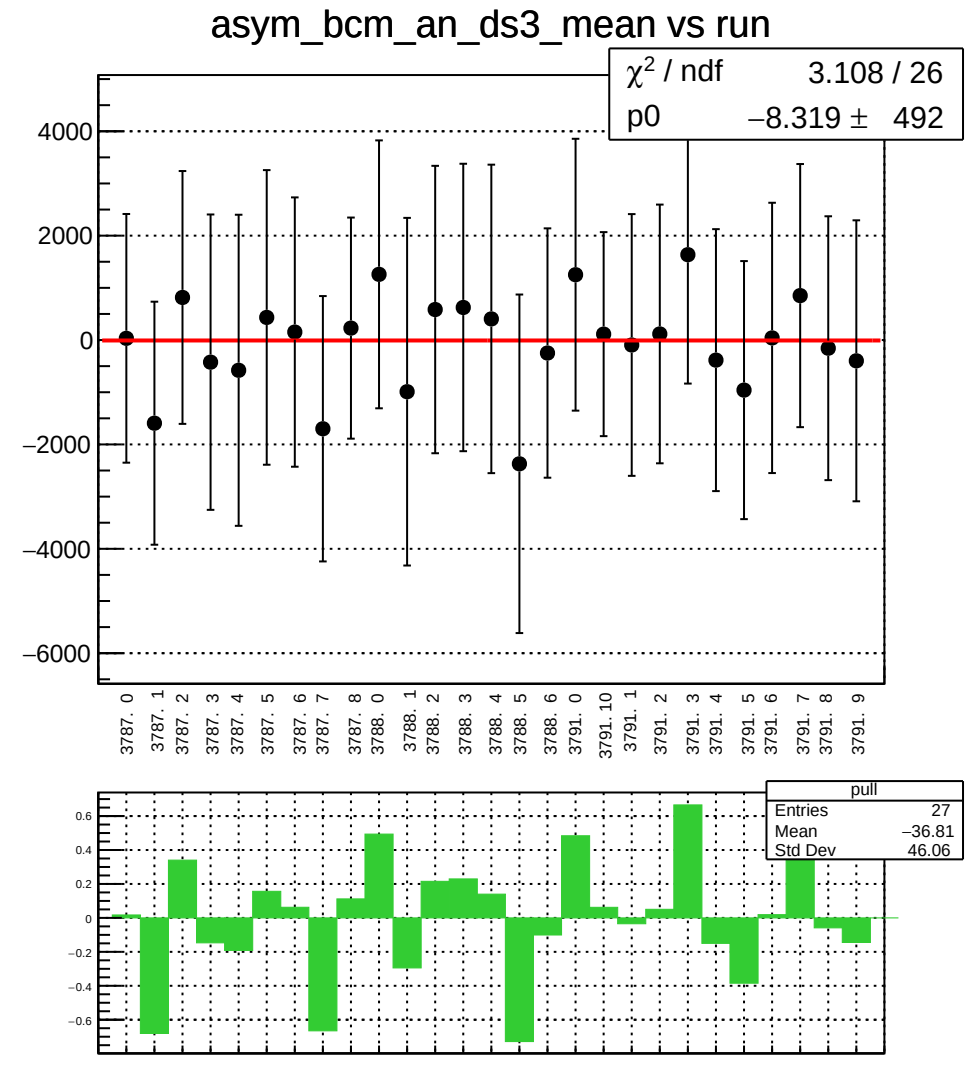

pull1D
Entries 27
Mean 5.935
Std Dev 0.3393
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

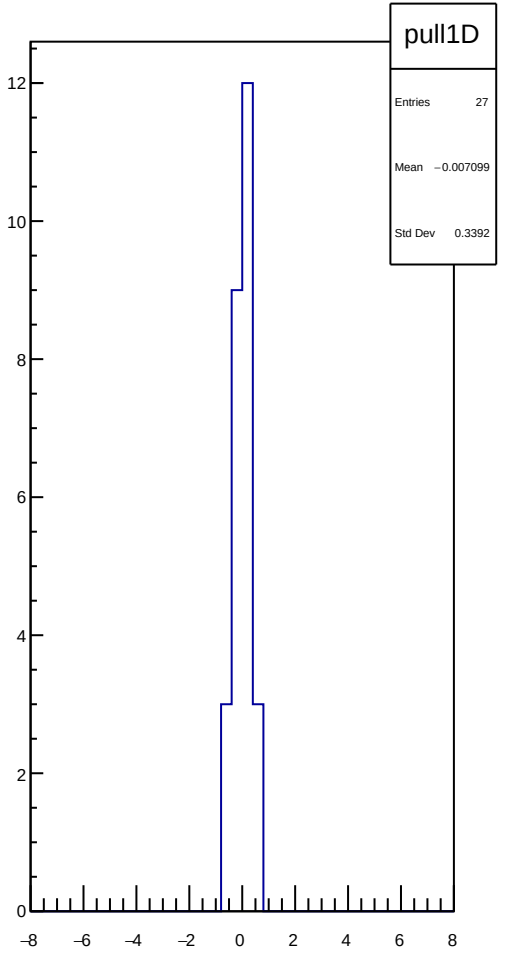

yield_bpm0l01WS_rms vs run
χ² / ndf 2.942e+04 / 26
p0 130 ± 0.1852
4000
3500
3000
2500
2000
1500
1000
500
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

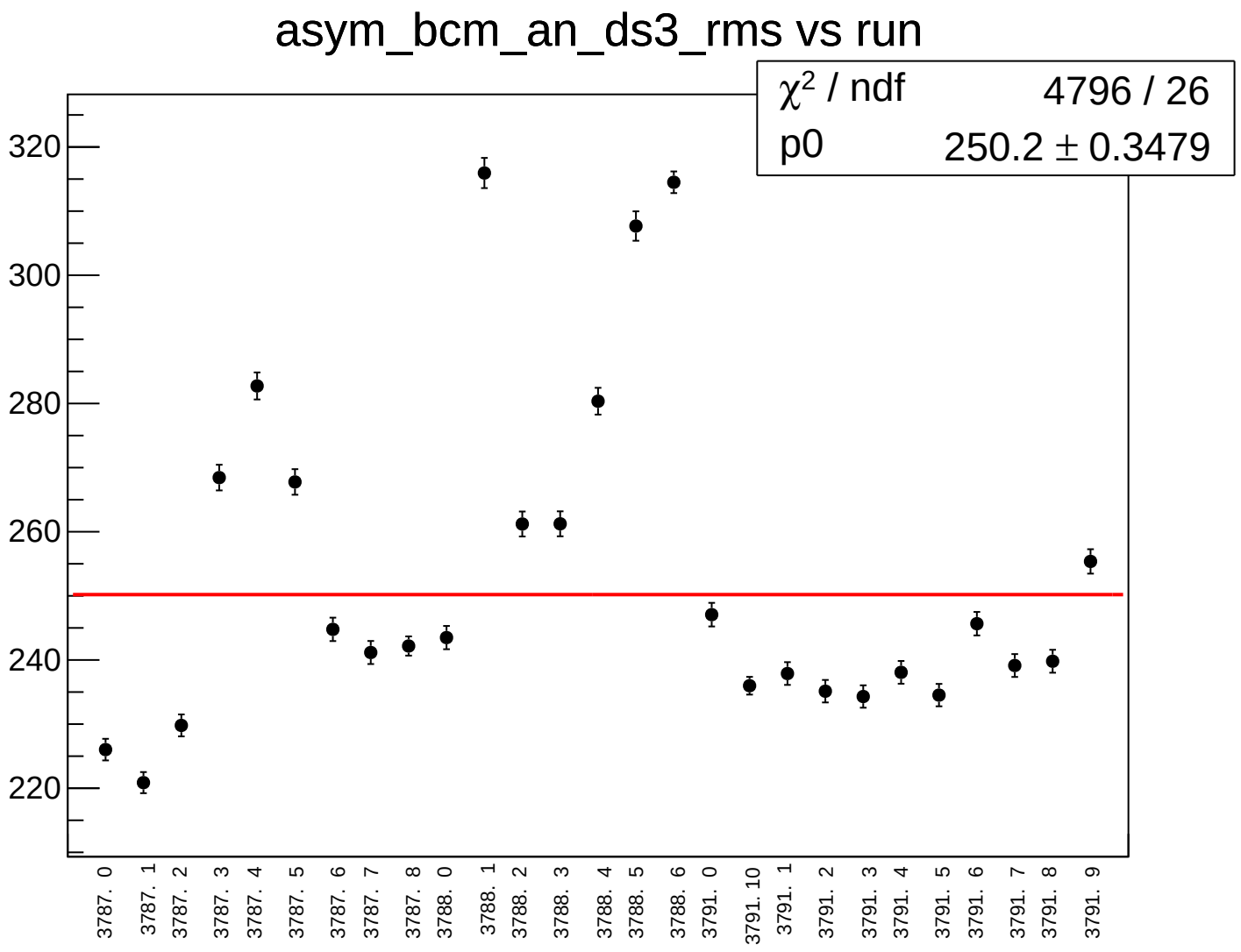

asym_bcm_an_ds_mean vs run
χ² / ndf 3.392 / 26
p0 10.43 ± 483.5
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −47.3
Std Dev 57.88
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

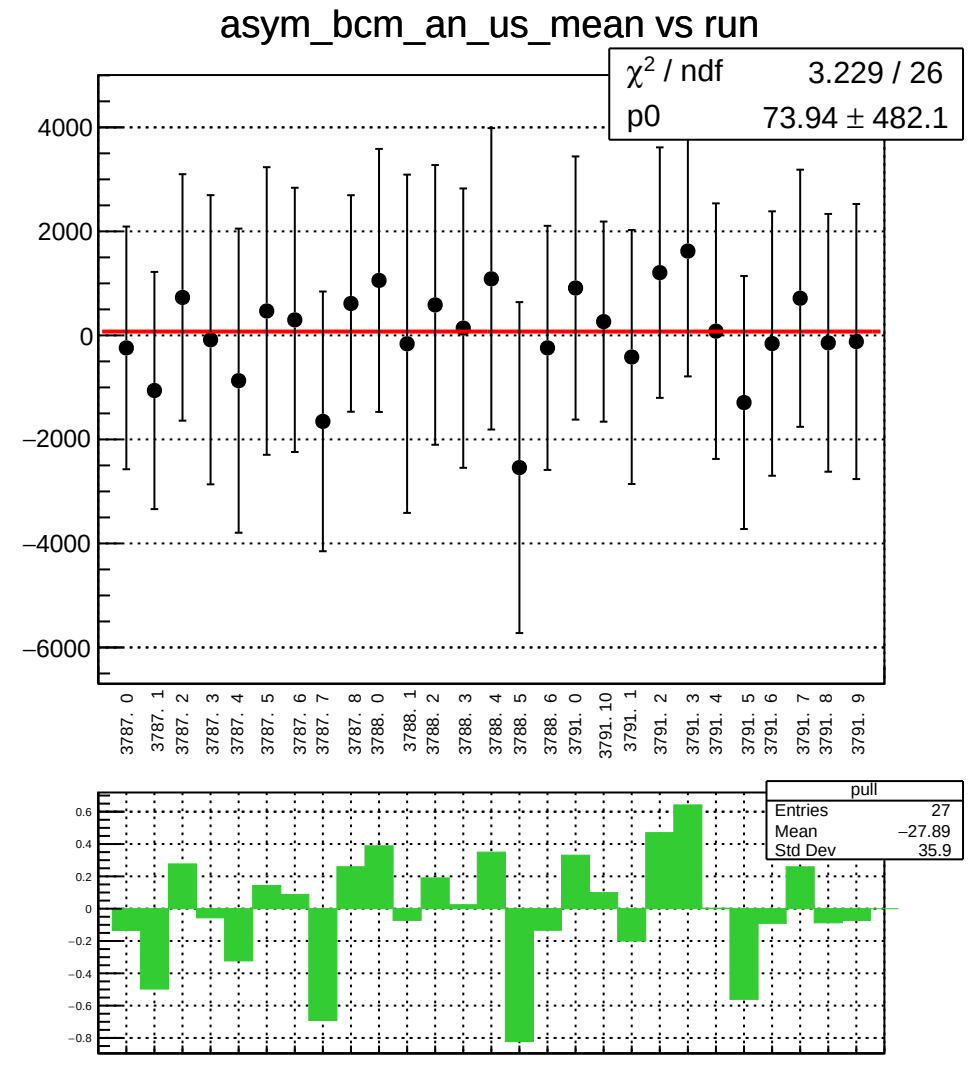

pull1D
Entries 27
Mean −0.007848
Std Dev 0.3543
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

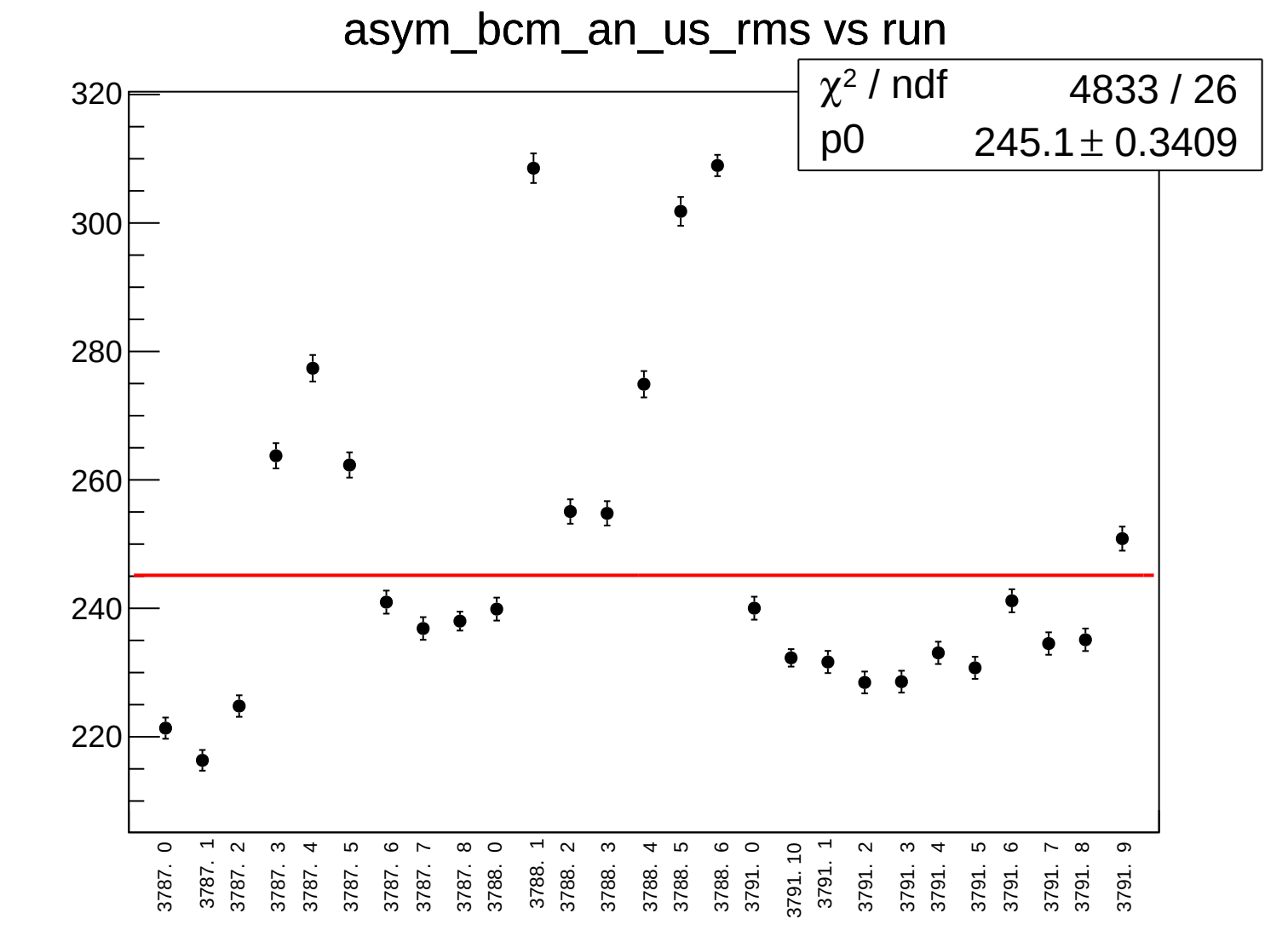

asym_bcm_an_ds_rms vs run
χ² / ndf 4808 / 26
p0 245.9 ± 0.3419
320
300
280
260
240
220
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

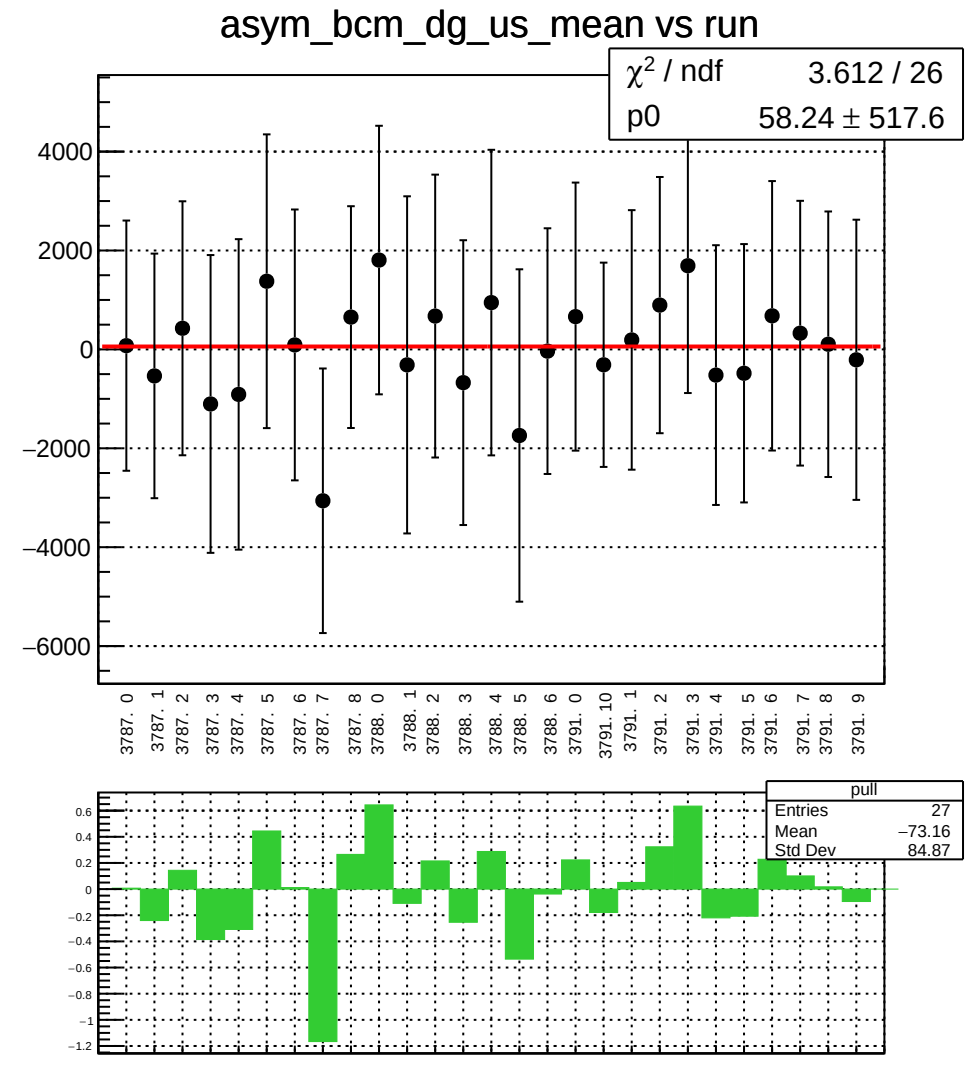

asym_bcm_an_ds3_mean vs run
χ² / ndf 3.108 / 26
p0 −8.319 ± 492
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −36.81
Std Dev 46.06
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

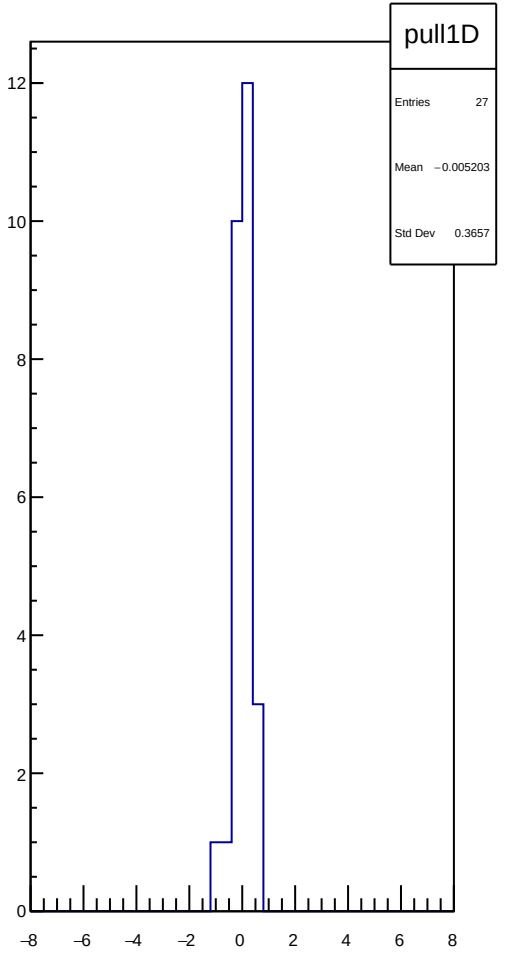

pull1D
Entries 27
Mean −0.007099
Std Dev 0.3392
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

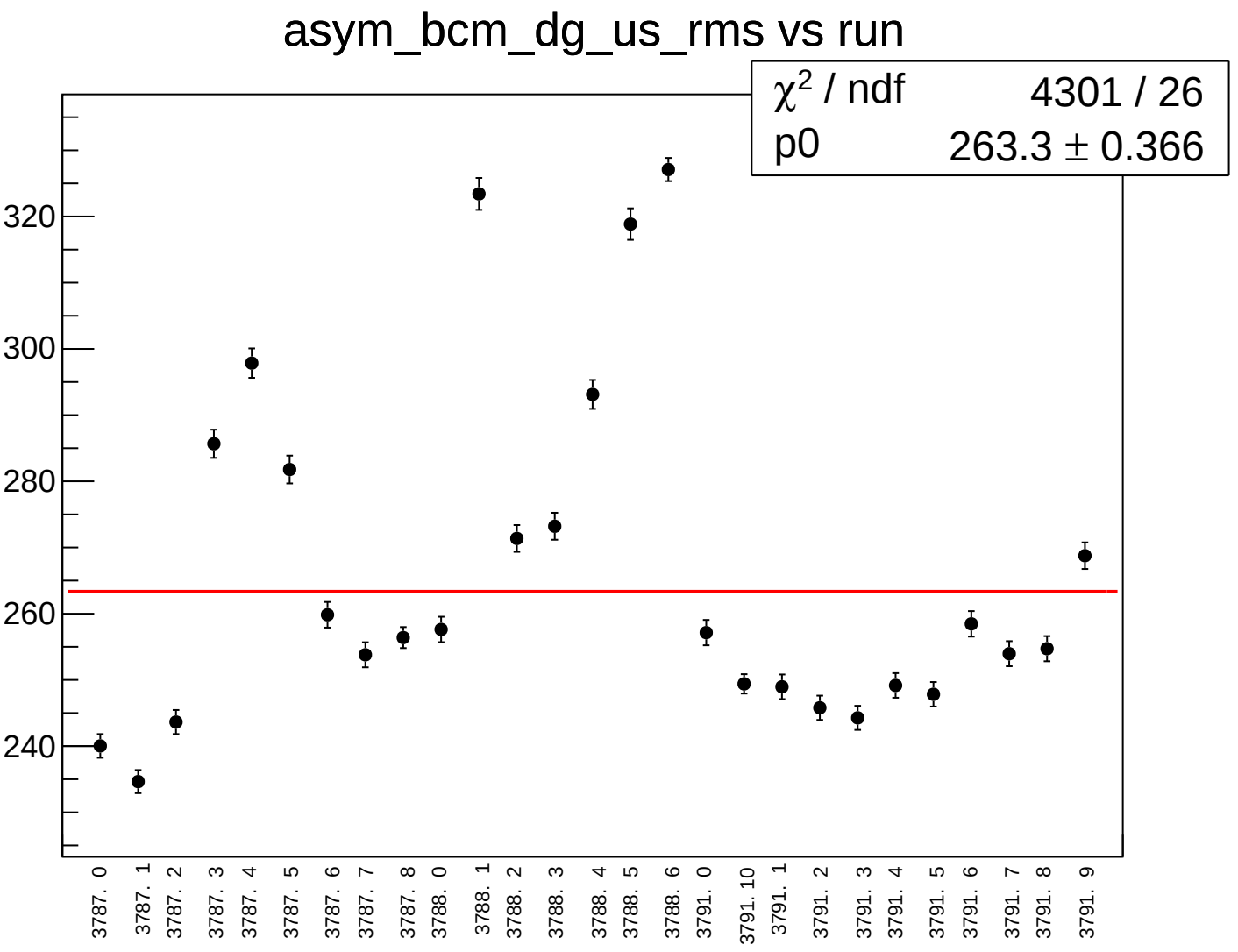

asym_bcm_an_ds3_rms vs run
χ² / ndf 4796 / 26
p0 250.2 ± 0.3479
320
300
280
260
240
220
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

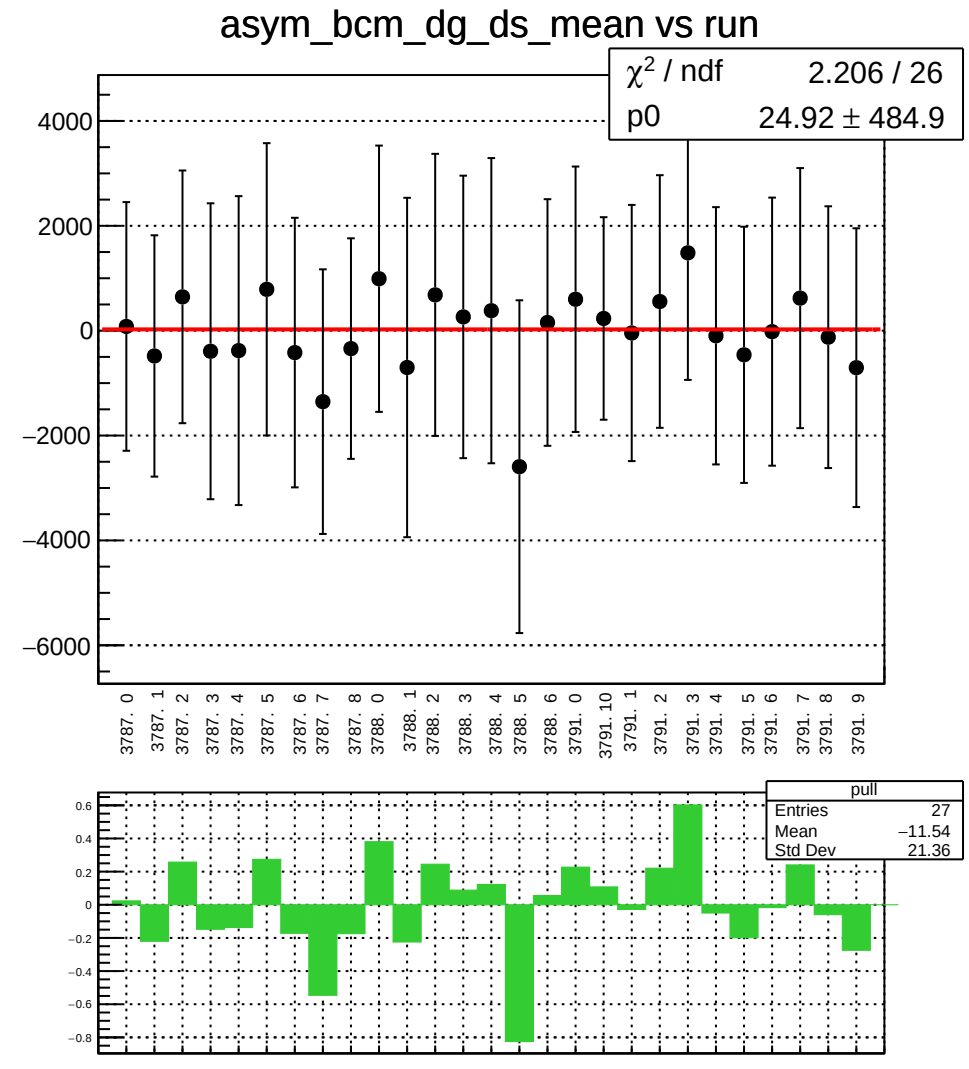

asym_bcm_an_us_mean vs run
χ² / ndf 3.229 / 26
p0 73.94 ± 482.1
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −27.89
Std Dev 35.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 27
Mean −0.008079
Std Dev 0.3457
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

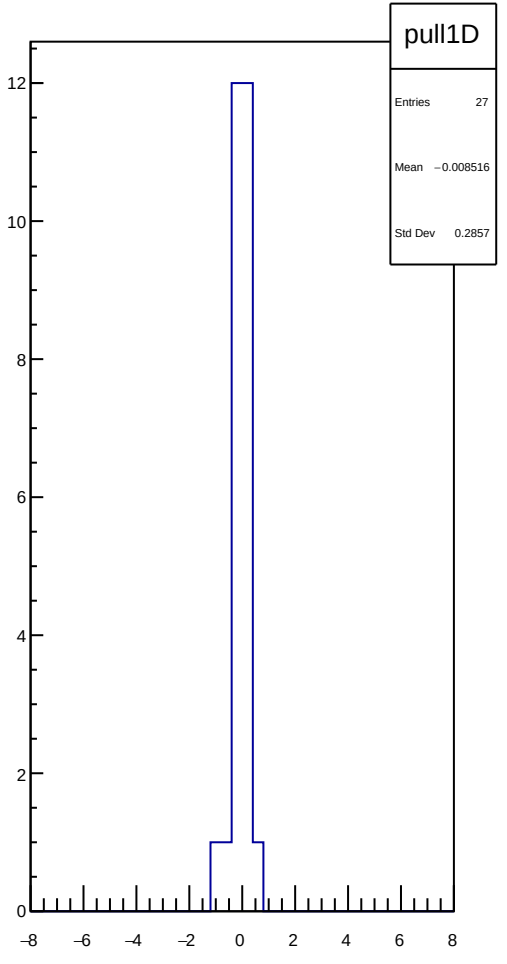

asym_bcm_an_us_rms vs run
χ² / ndf 4833 / 26
p0 245.1 ± 0.3409
320
300
280
260
240
220
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

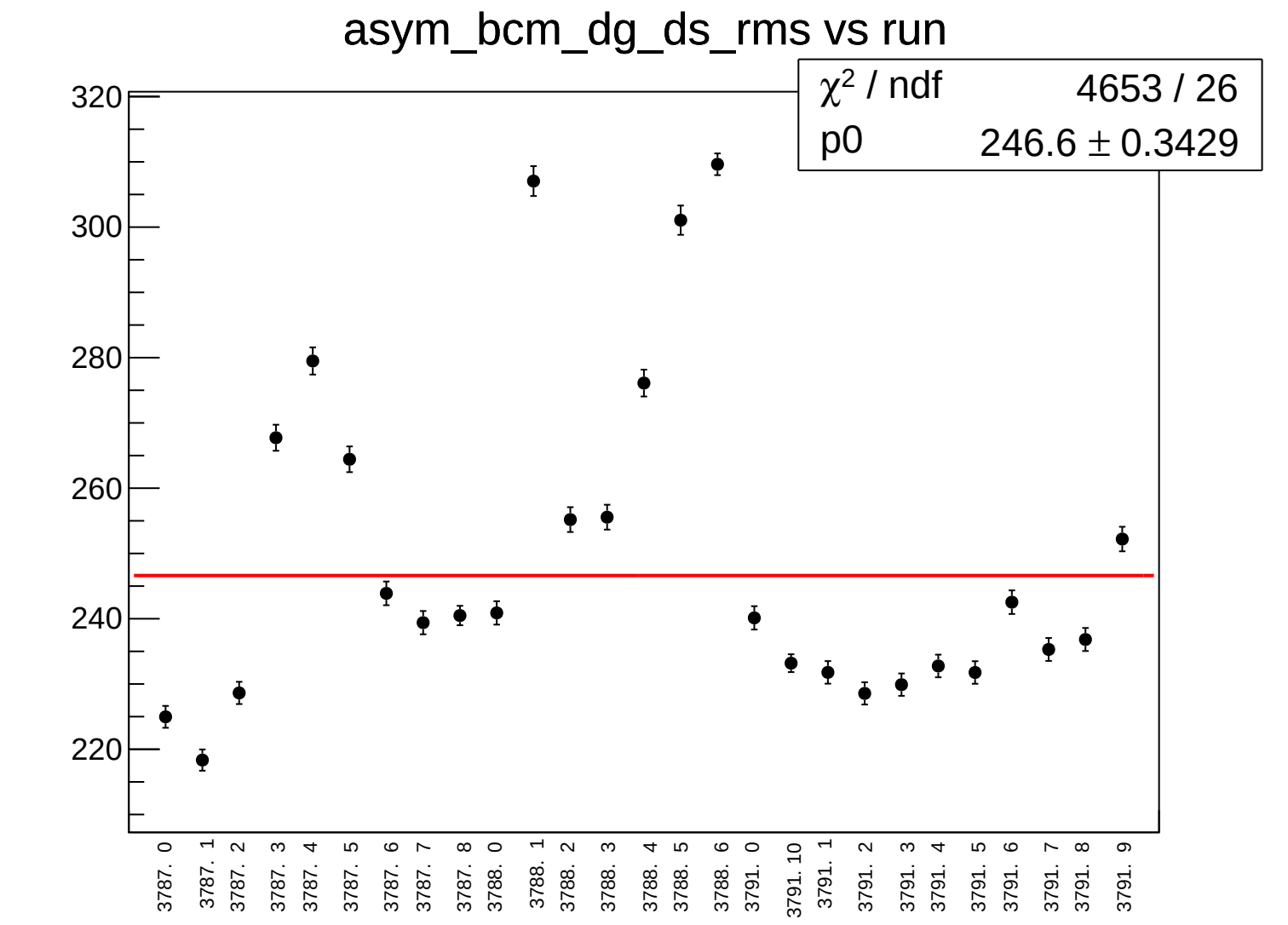

asym_bcm_dg_us_mean vs run
χ² / ndf 3.612 / 26
p0 58.24 ± 517.6
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −73.16
Std Dev 84.87
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

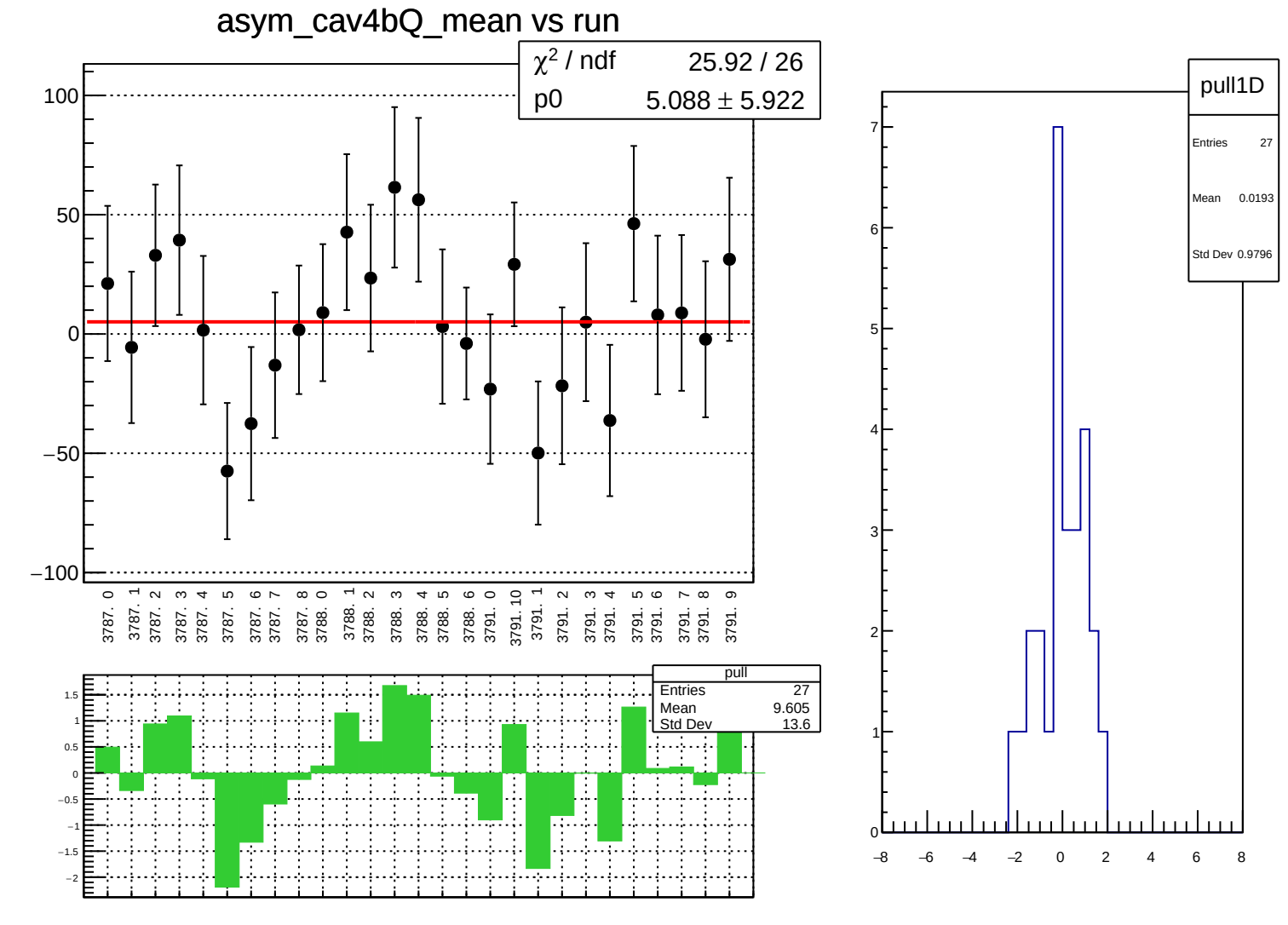

pull1D
Entries 27
Mean −0.005203
Std Dev 0.3657
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

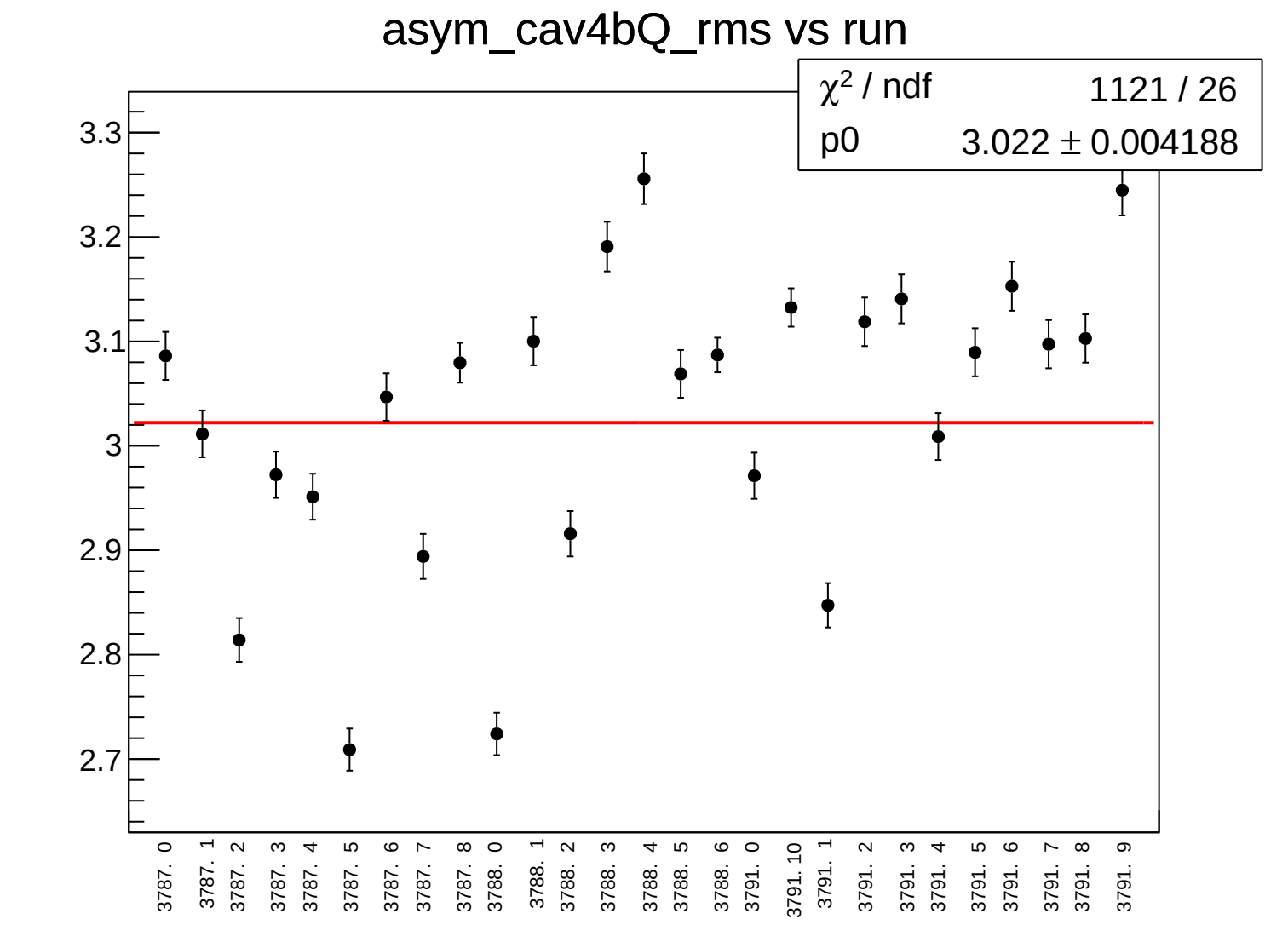

asym_bcm_dg_us_rms vs run
χ² / ndf 4301 / 26
p0 263.3 ± 0.366
320
300
280
260
240
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

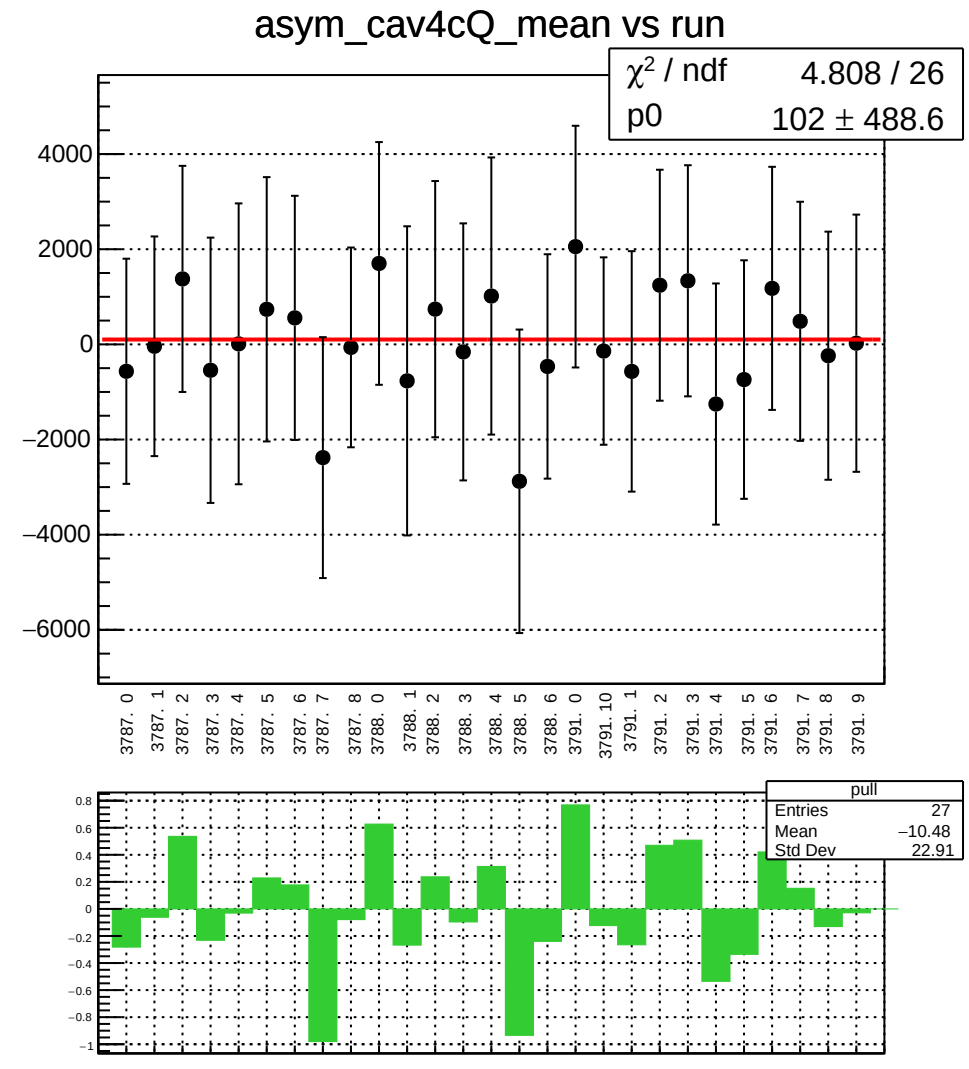

asym_bcm_dg_ds_mean vs run
χ² / ndf 2.206 / 26
p0 24.92 ± 484.9
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −11.54
Std Dev 21.36
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

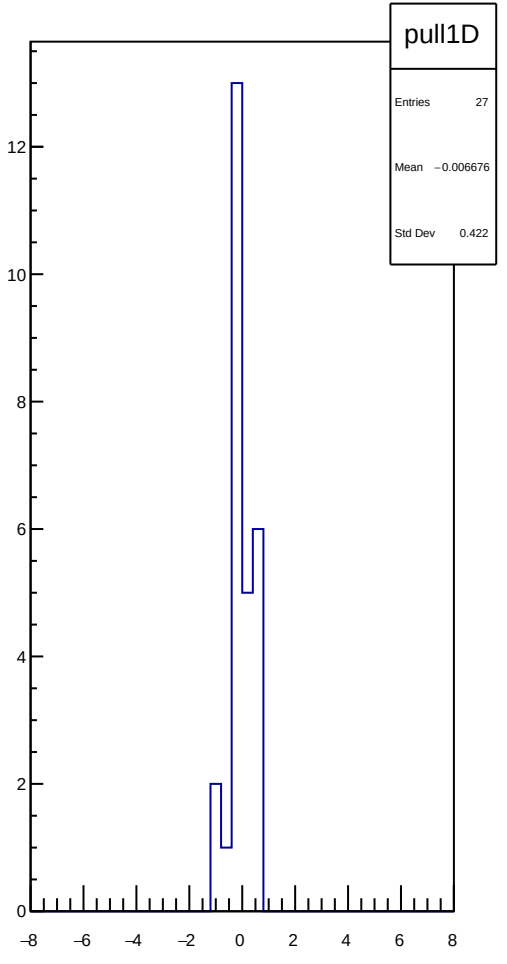

pull1D
Entries 27
Mean −0.008516
Std Dev 0.2857
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

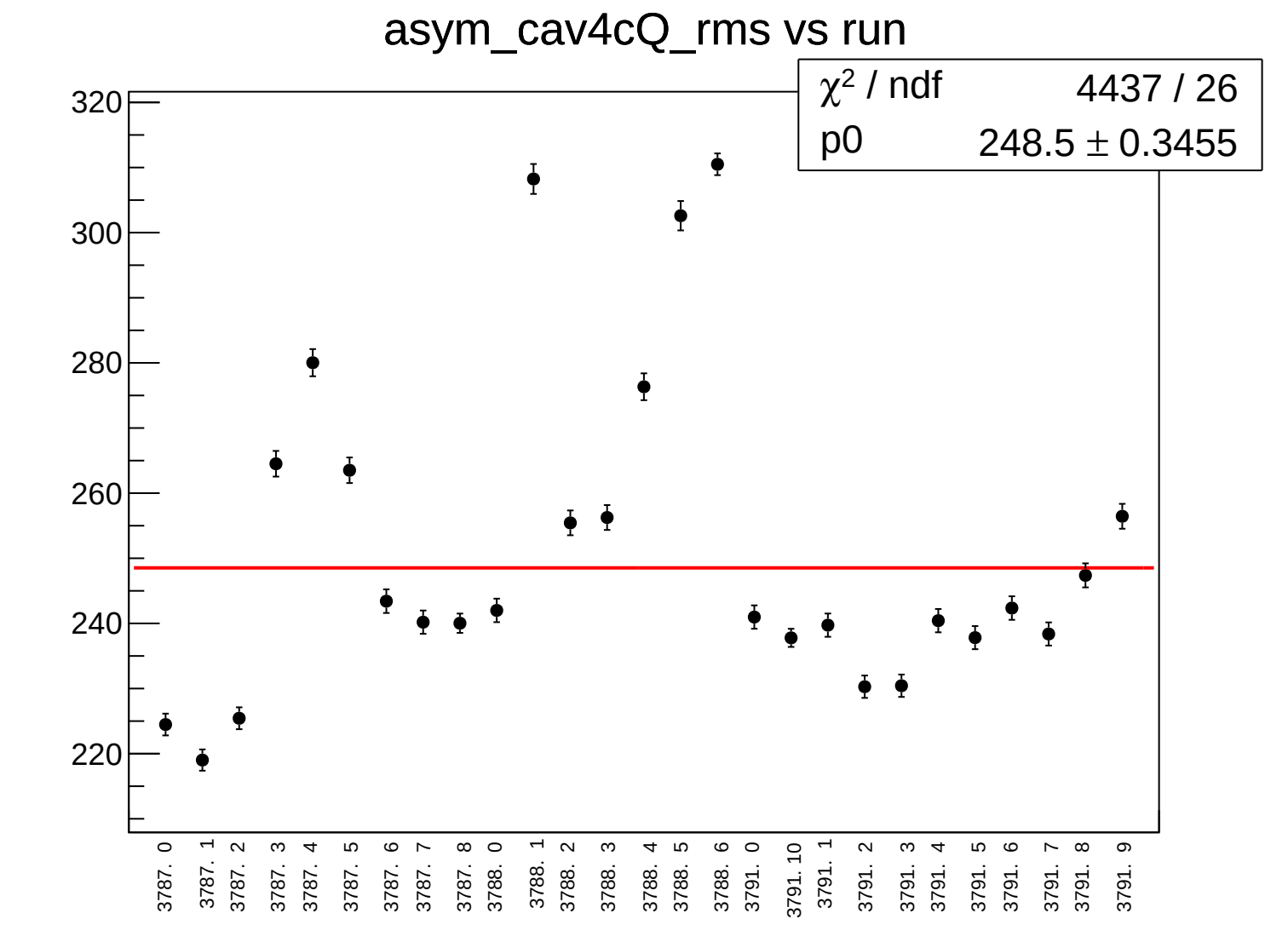

asym_bcm_dg_ds_rms vs run
χ² / ndf 4653 / 26
p0 246.6 ± 0.3429
320
300
280
260
240
220
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

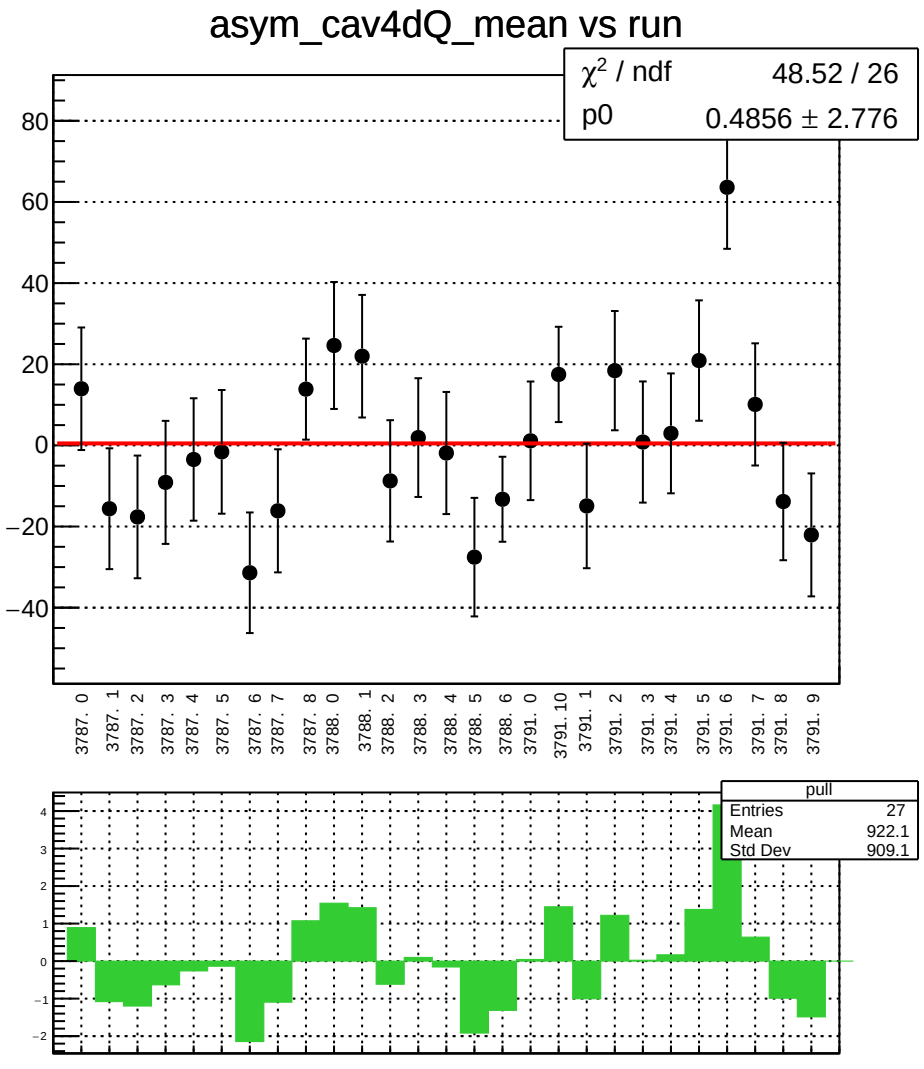

asym_cav4bQ_mean vs run
χ² / ndf 25.92 / 26
p0 5.088 ± 5.922
100
50
0
−50
−100
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 9.605
Std Dev 13.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 27
Mean 0.0193
Std Dev 0.9796
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

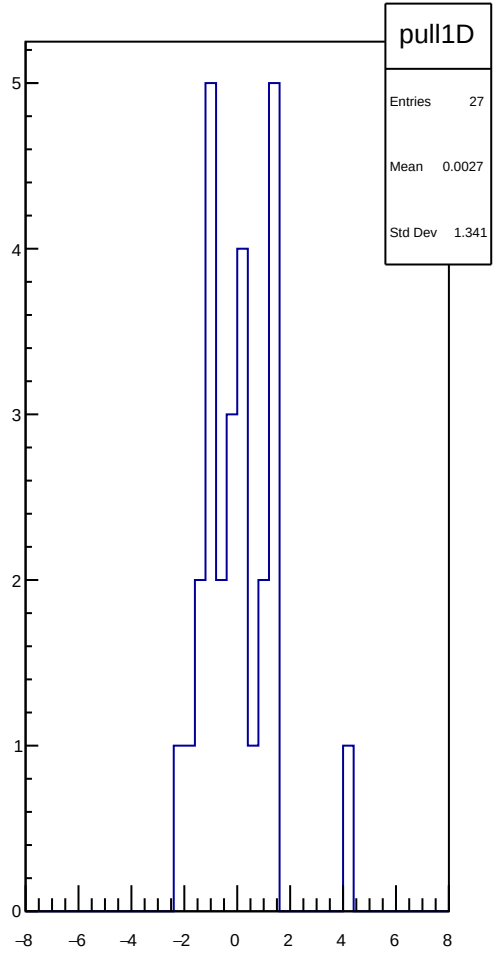

asym_cav4bQ_rms vs run
χ² / ndf 1121 / 26
p0 3.022 ± 0.004188
3.3
3.2
3.1
3
2.9
2.8
2.7
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

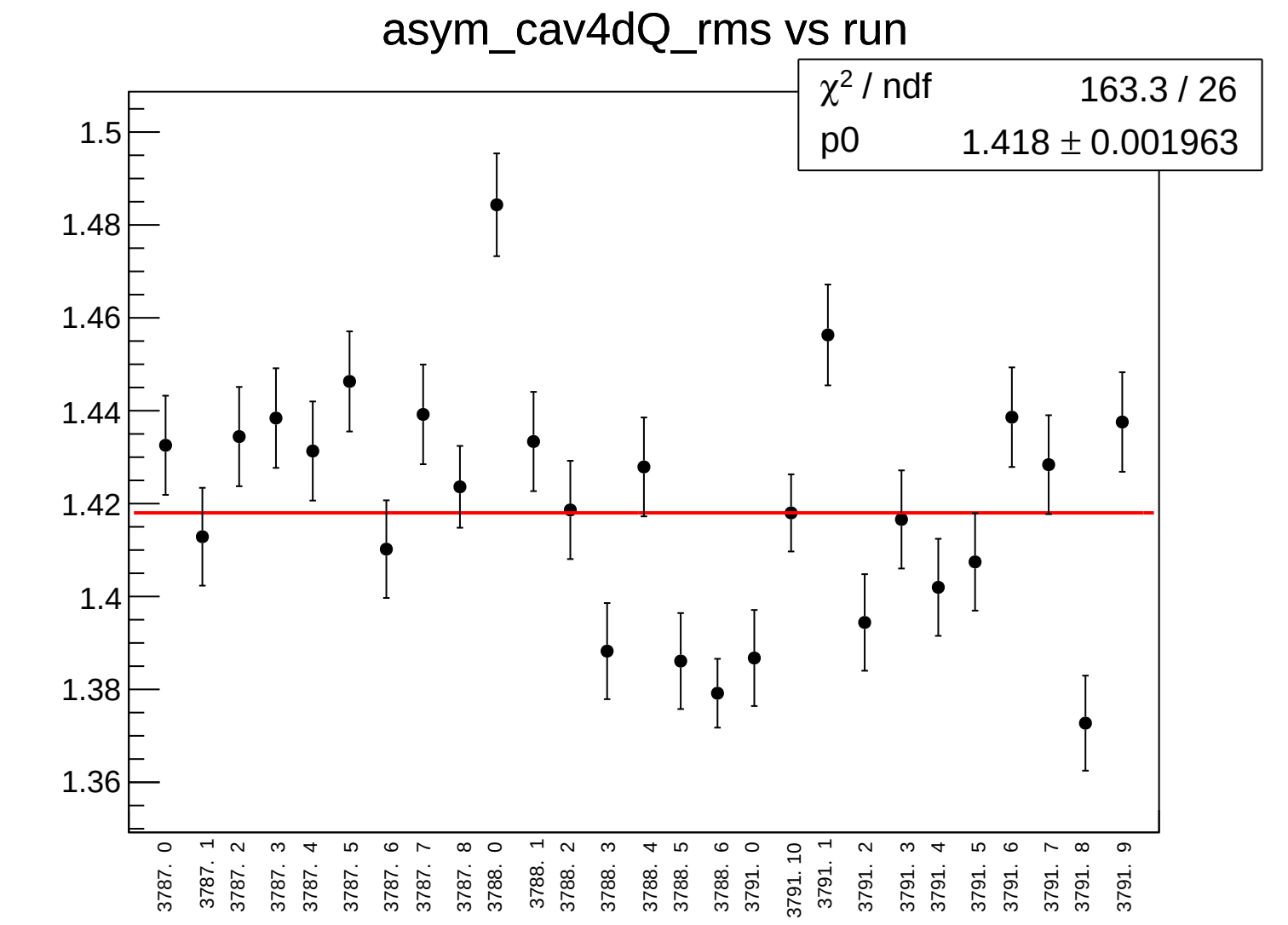

asym_cav4cQ_mean vs run
χ² / ndf 4.808 / 26
p0 102 ± 488.6
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −10.48
Std Dev 22.91
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

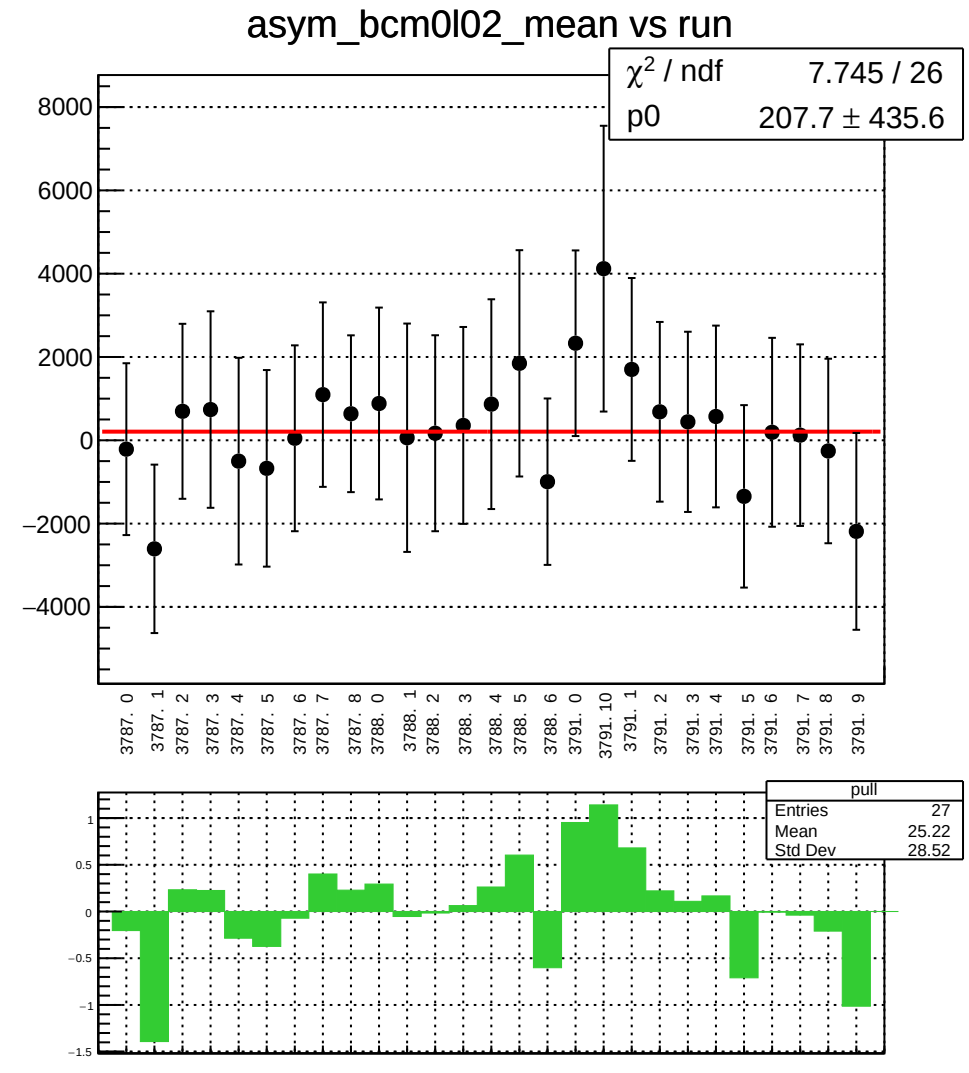

pull1D
Entries 27
Mean −0.006676
Std Dev 0.422
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

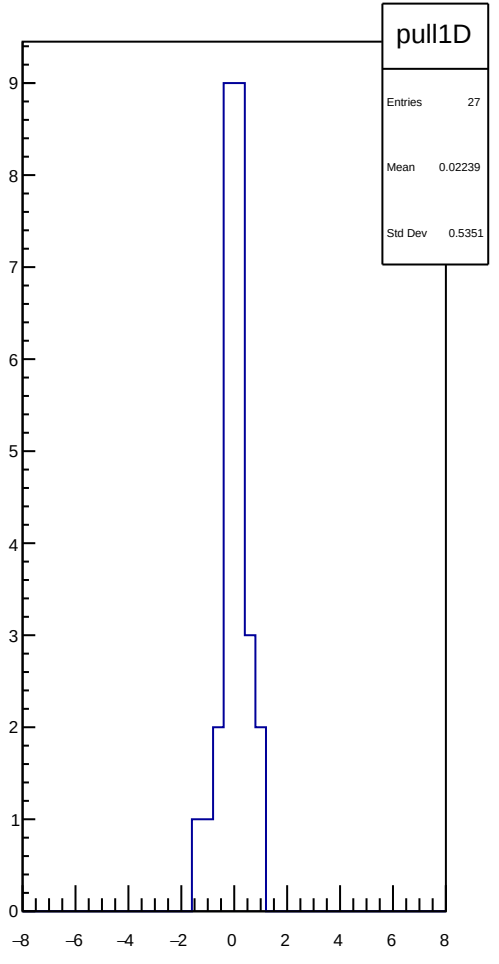

asym_cav4cQ_rms vs run
χ² / ndf 4437 / 26
p0 248.5 ± 0.3455
320
300
280
260
240
220
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

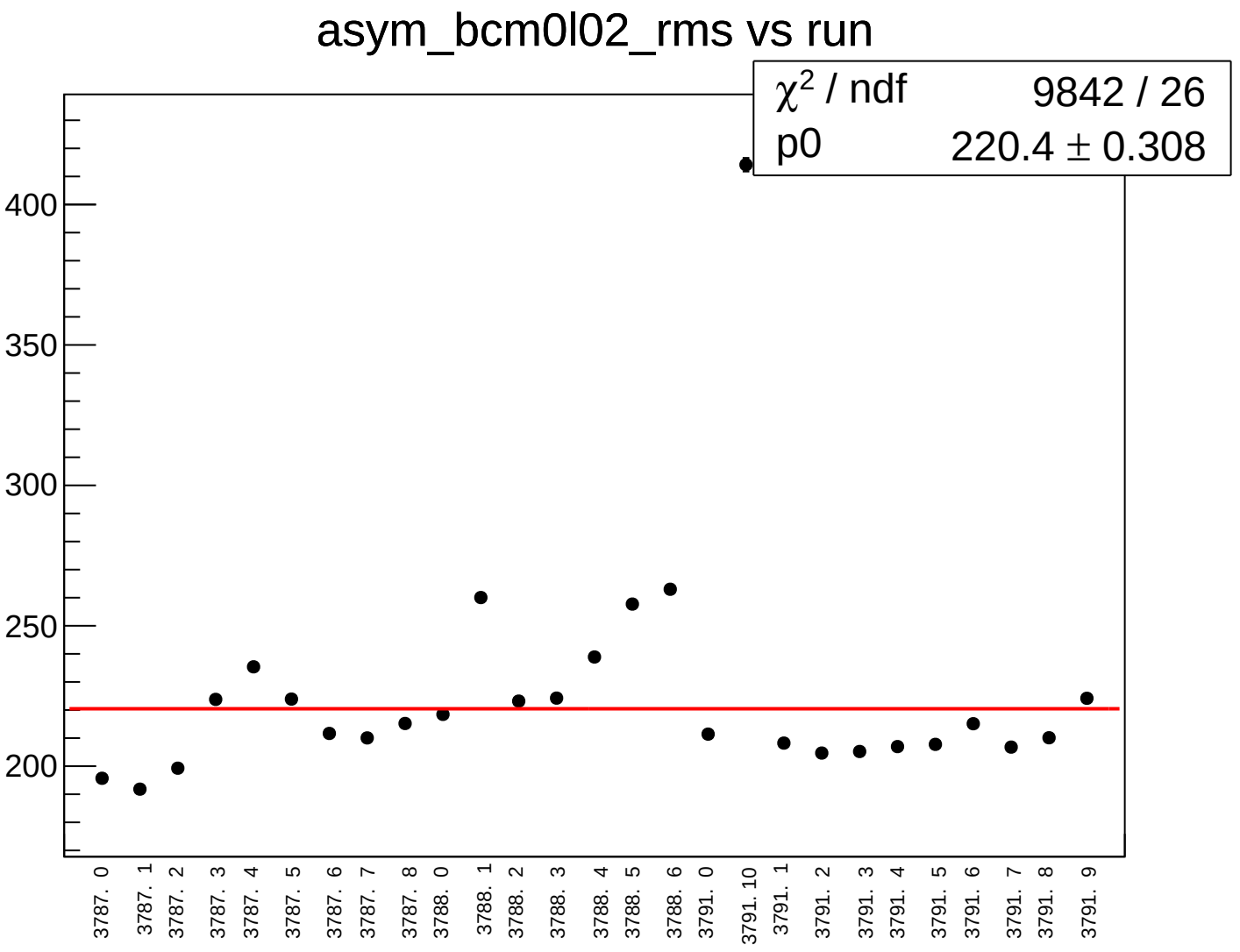

asym_cav4dQ_mean vs run
χ² / ndf 48.52 / 26
p0 0.4856 ± 2.776
80
60
40
20
0
−20
−40
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 922.1
Std Dev 909.1
4
3
2
1
0
−1
−2

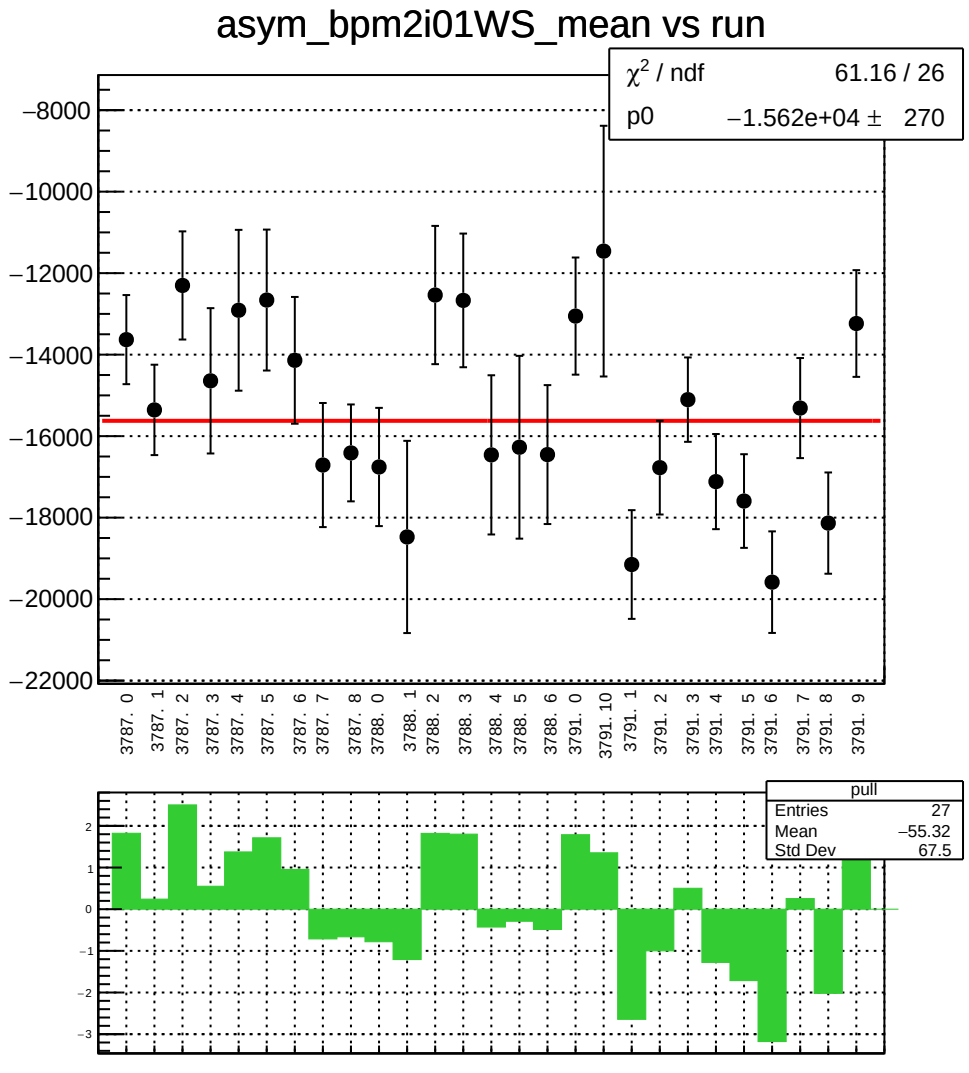

pull1D
Entries 27
Mean 0.0027
Std Dev 1.341
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

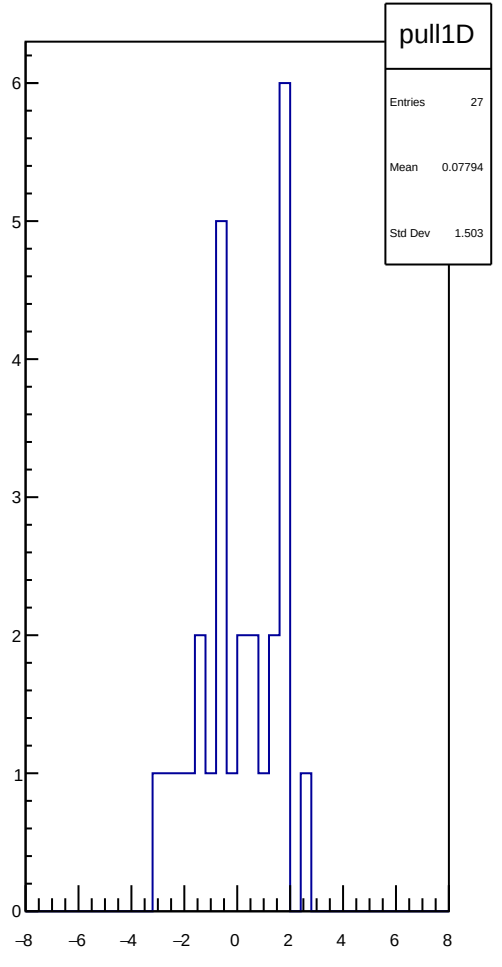

asym_cav4dQ_rms vs run
χ² / ndf 163.3 / 26
p0 1.418 ± 0.001963
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

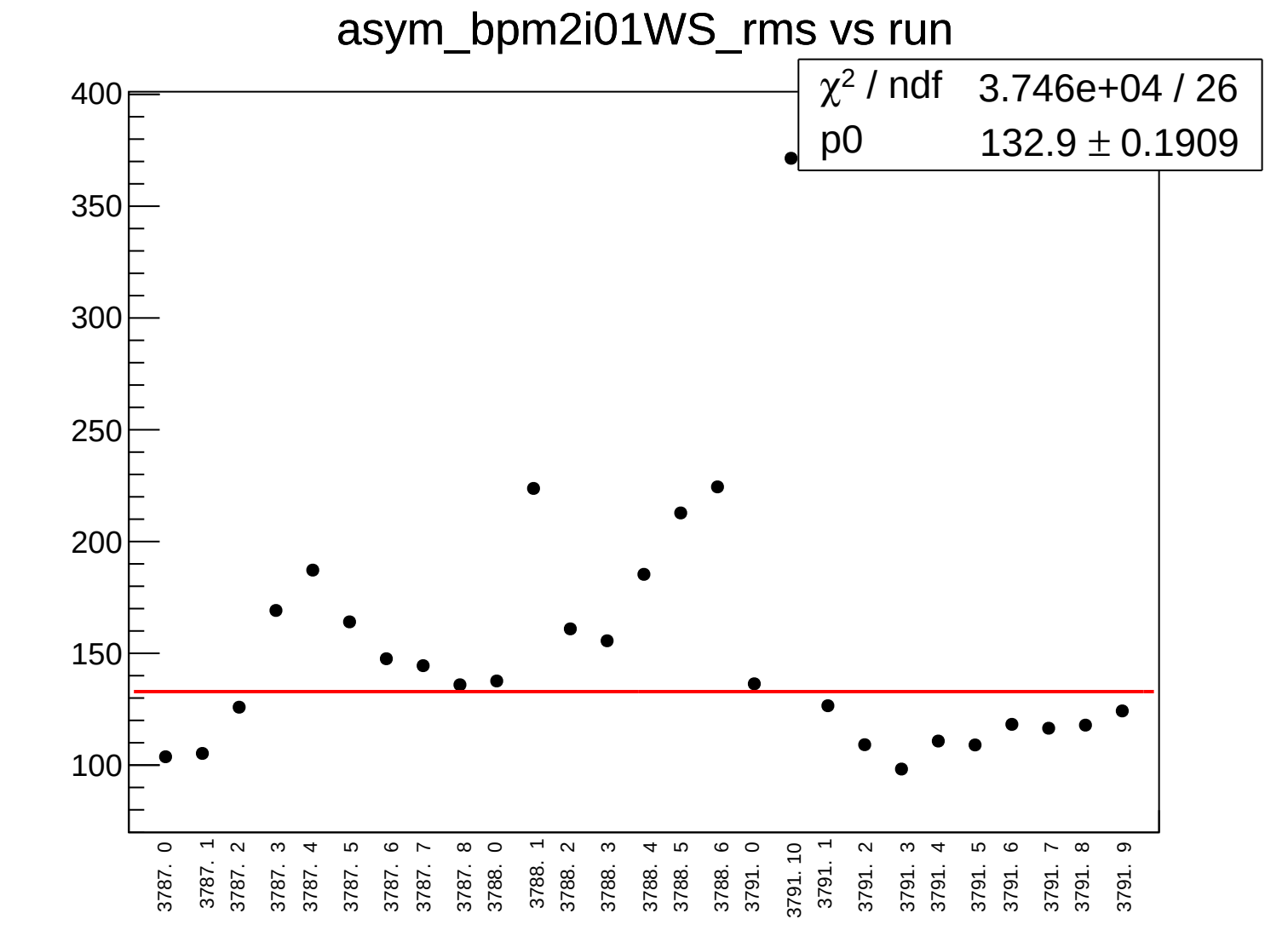

asym_bcm0l02_mean vs run
χ² / ndf 7.745 / 26
p0 207.7 ± 435.6
8000
6000
4000
2000
0
−2000
−4000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 25.22
Std Dev 28.52
1
0.5
0
−0.5
−1
−1.5

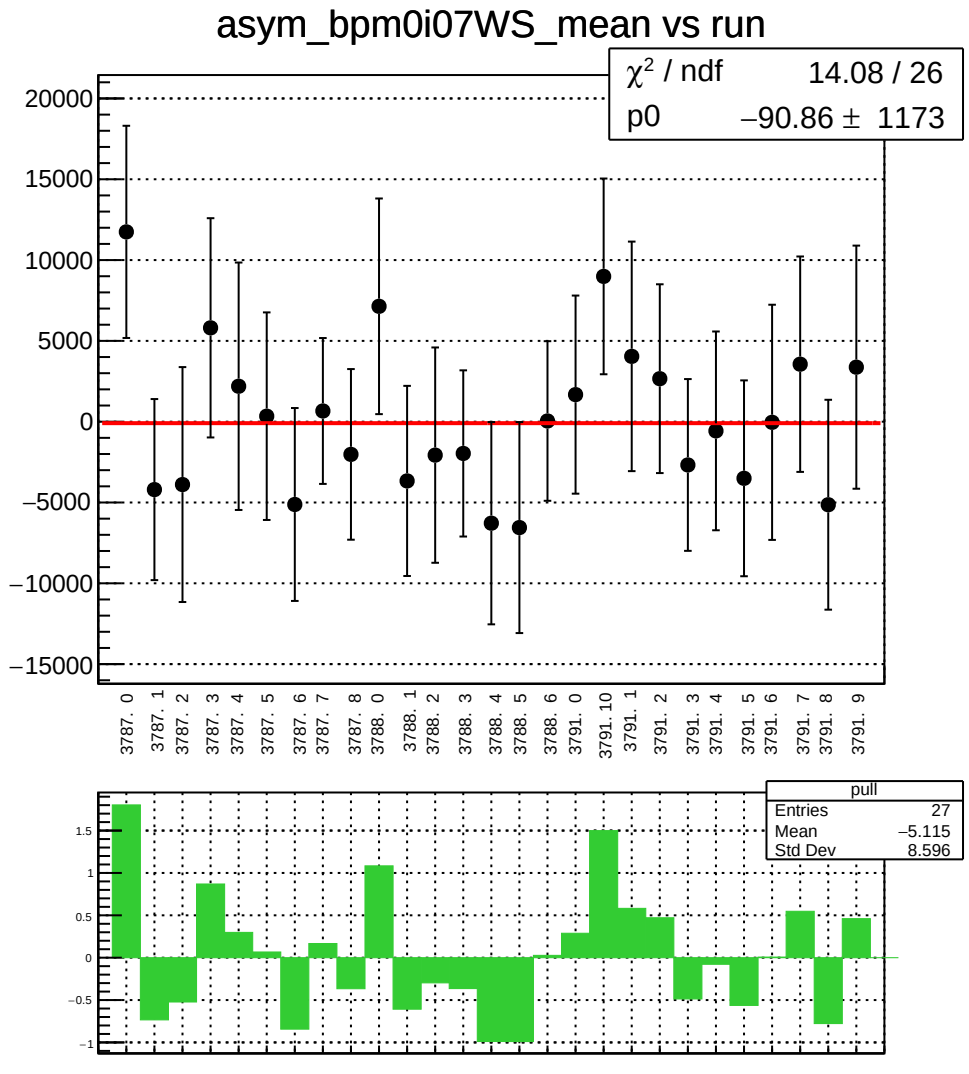

pull1D
Entries 27
Mean 0.02239
Std Dev 0.5351
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

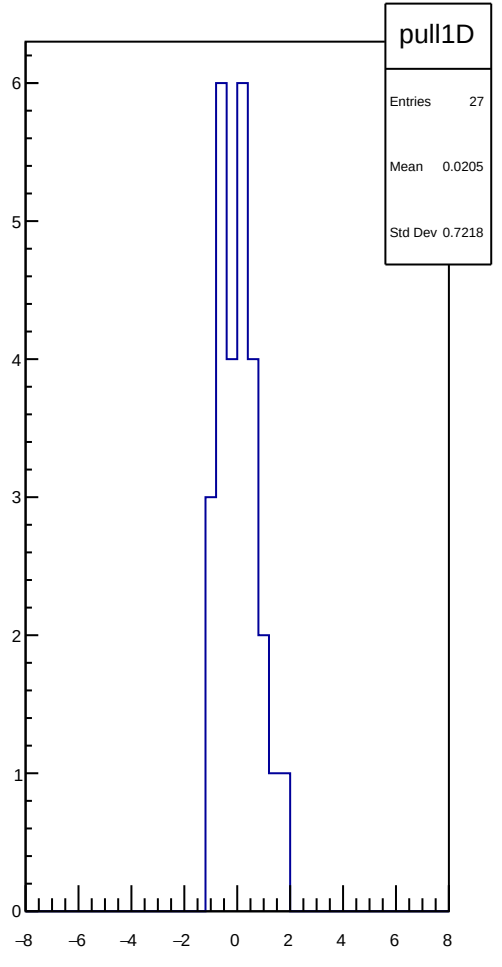

asym_bcm0l02_rms vs run
χ² / ndf 9842 / 26
p0 220.4 ± 0.308
400
350
300
250
200
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

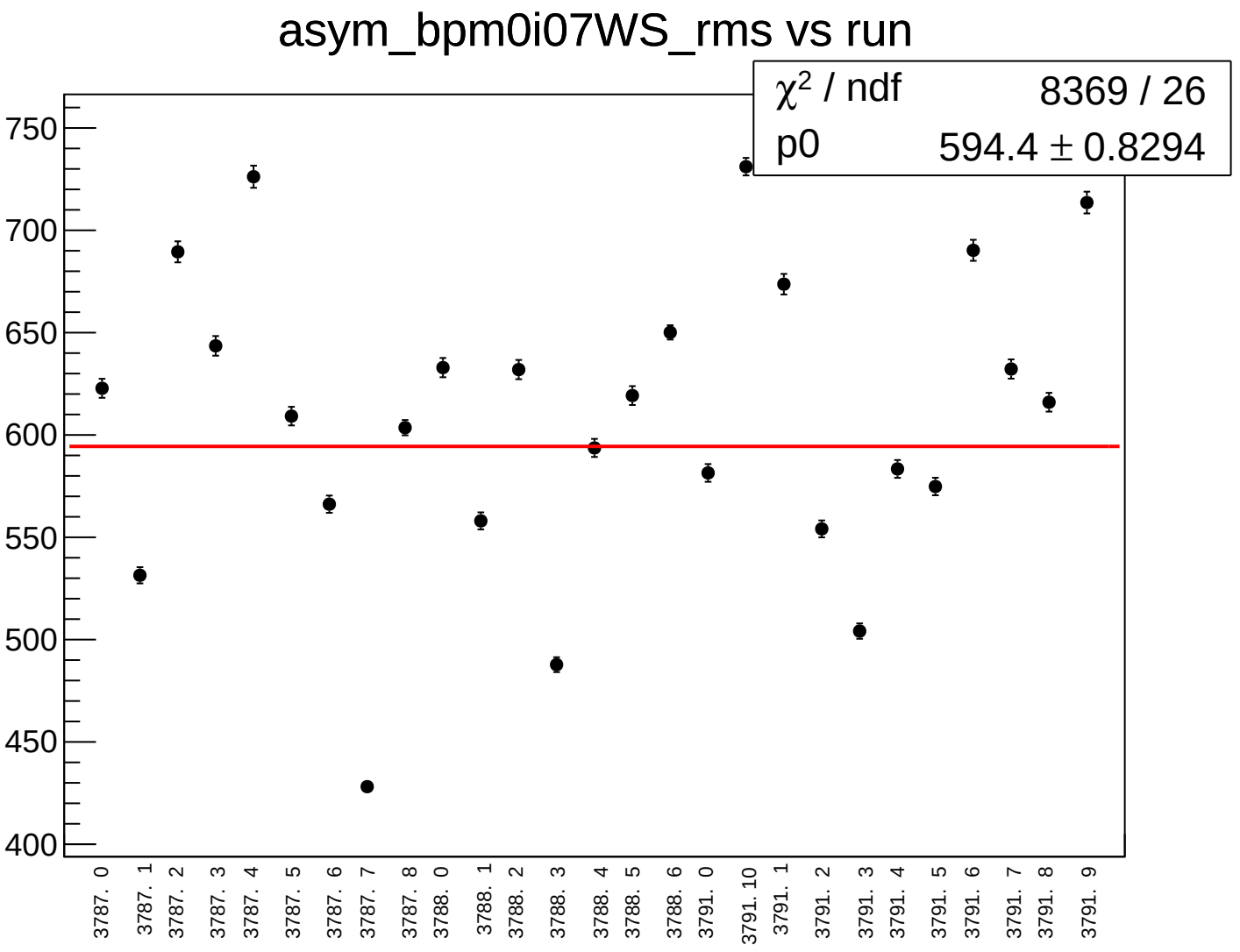

asym_bpm2i01WS_mean vs run
χ² / ndf 61.16 / 26
p0 −1.562e+04 ± 270
−8000
−10000
−12000
−14000
−16000
−18000
−20000
−22000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −55.32
Std Dev 67.5

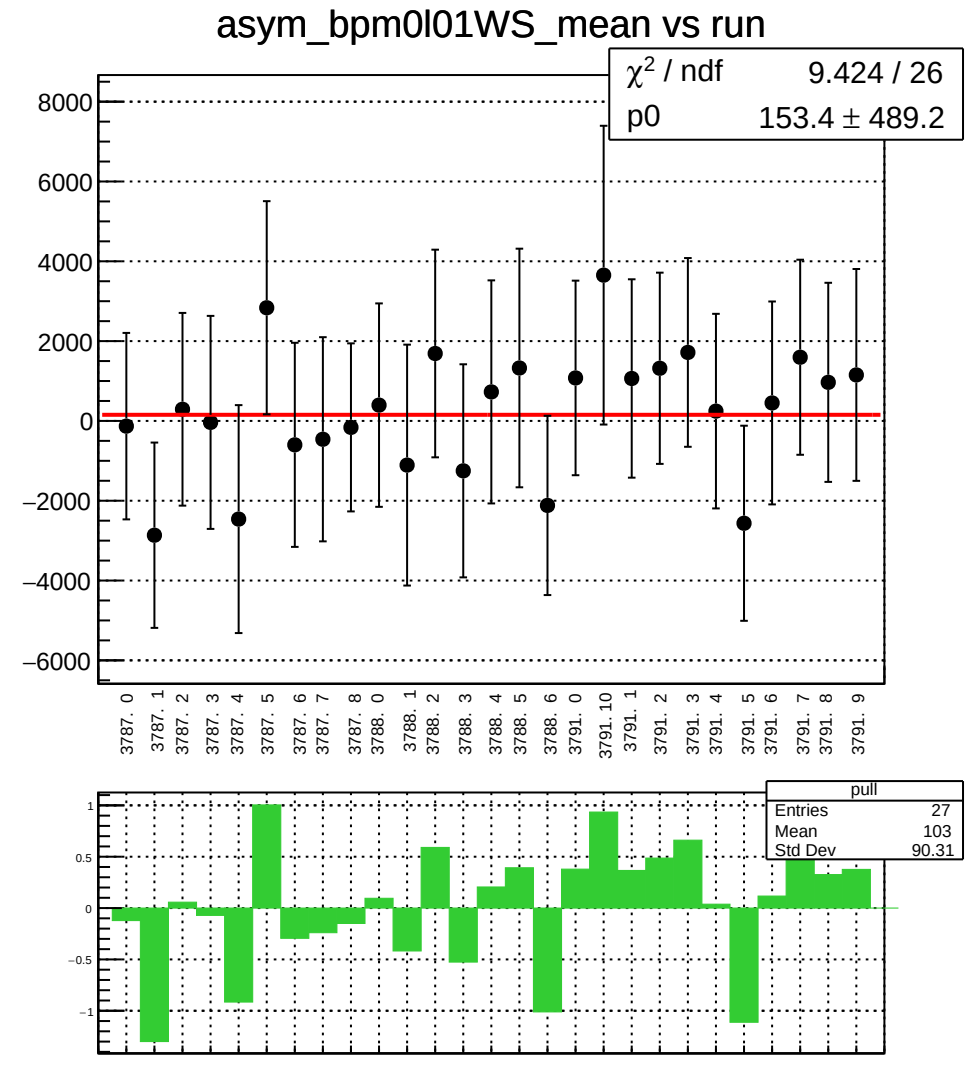

pull1D
Entries 27
Mean 0.07794
Std Dev 1.503

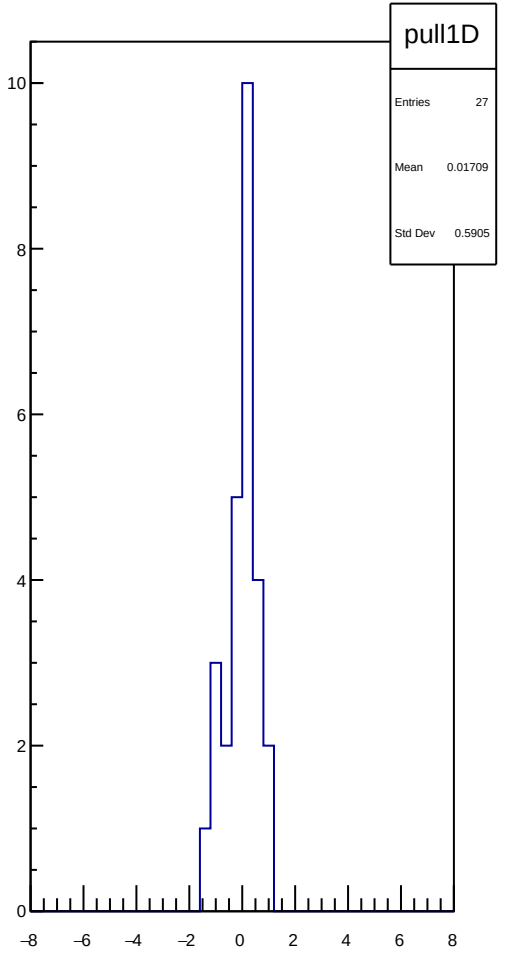

asym_bpm2i01WS_rms vs run
χ² / ndf 3.746e+04 / 26
p0 132.9 ± 0.1909
400
350
300
250
200
150
100
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

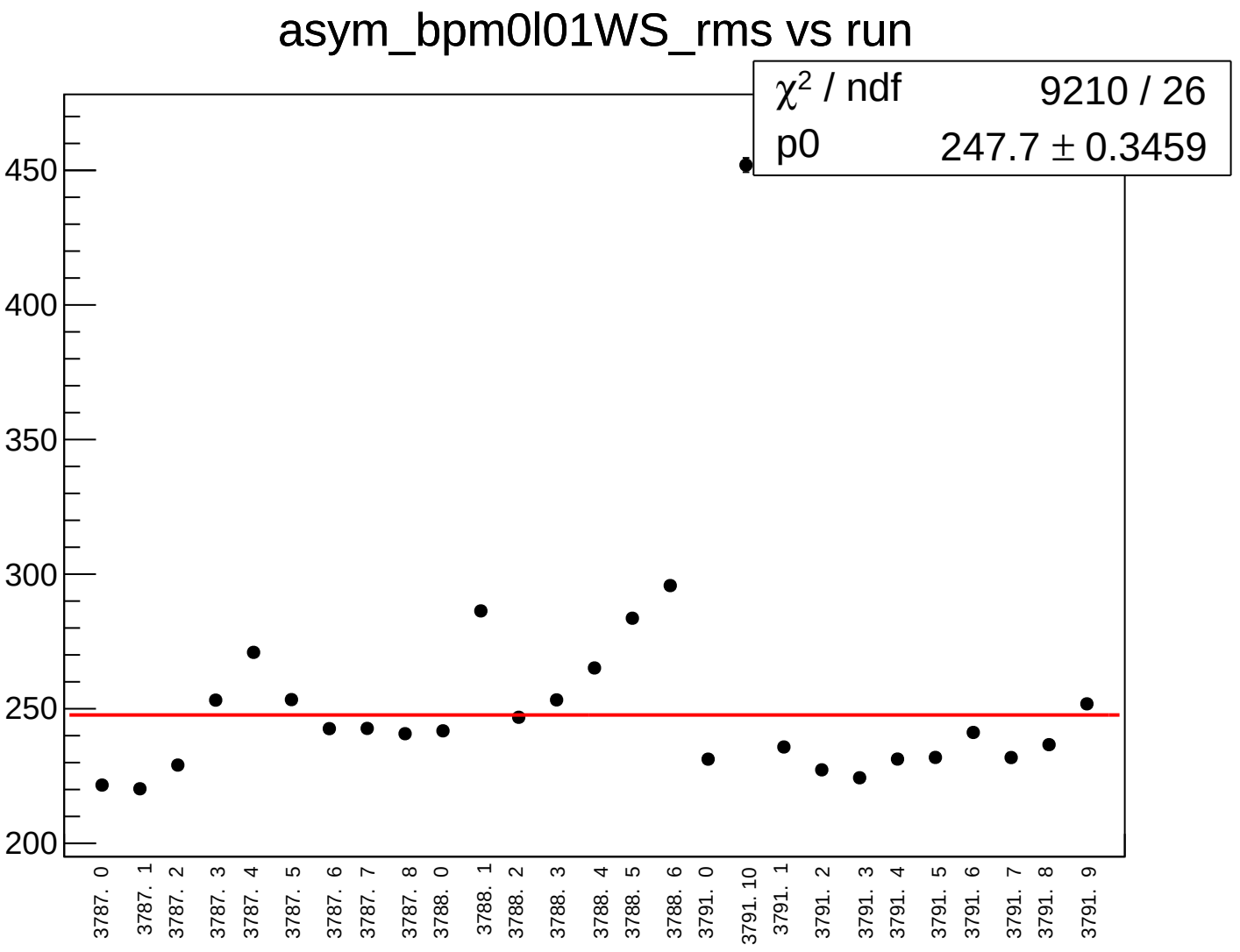

asym_bpm0i07WS_mean vs run
χ² / ndf 14.08 / 26
p0 −90.86 ± 1173
20000
15000
10000
5000
0
−5000
−10000
−15000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −5.115
Std Dev 8.596
1.5
1
0.5
0
−0.5
−1

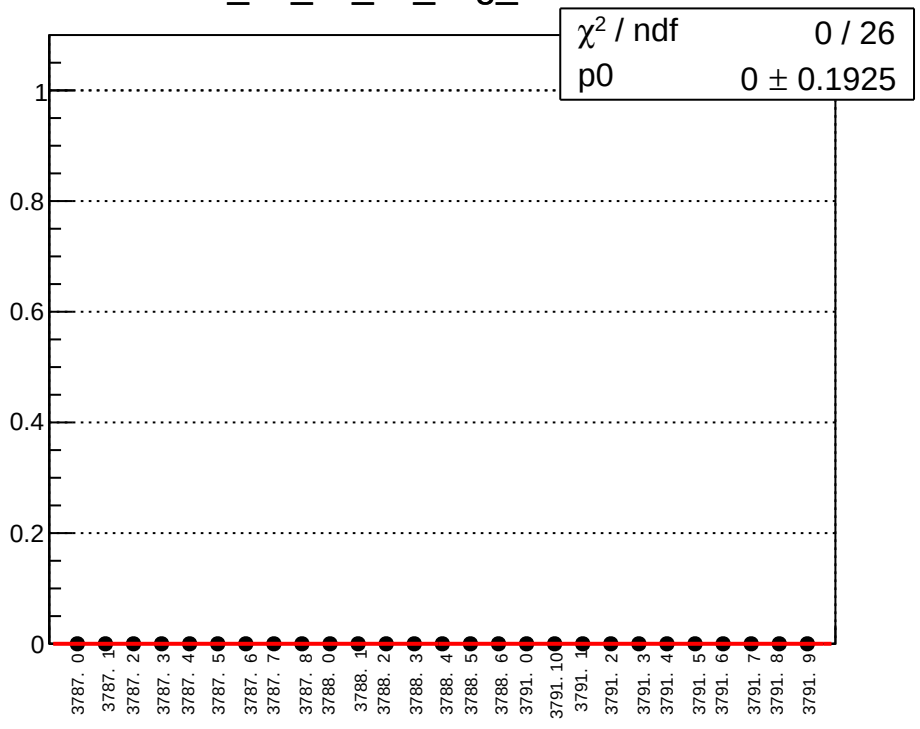

pull1D
Entries 27
Mean 0.0205
Std Dev 0.7218
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

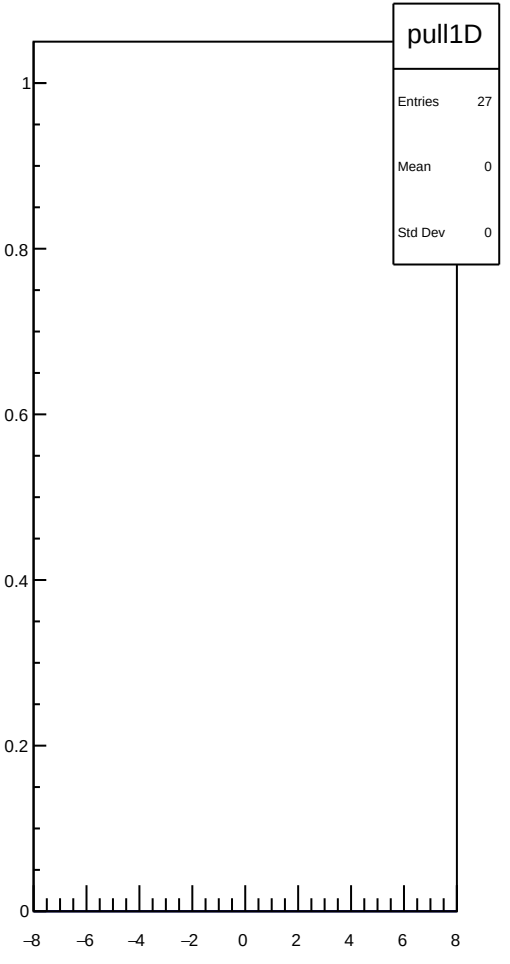

asym_bpm0i07WS_rms vs run
χ² / ndf 8369 / 26
p0 594.4 ± 0.8294
750
700
650
600
550
500
450
400
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

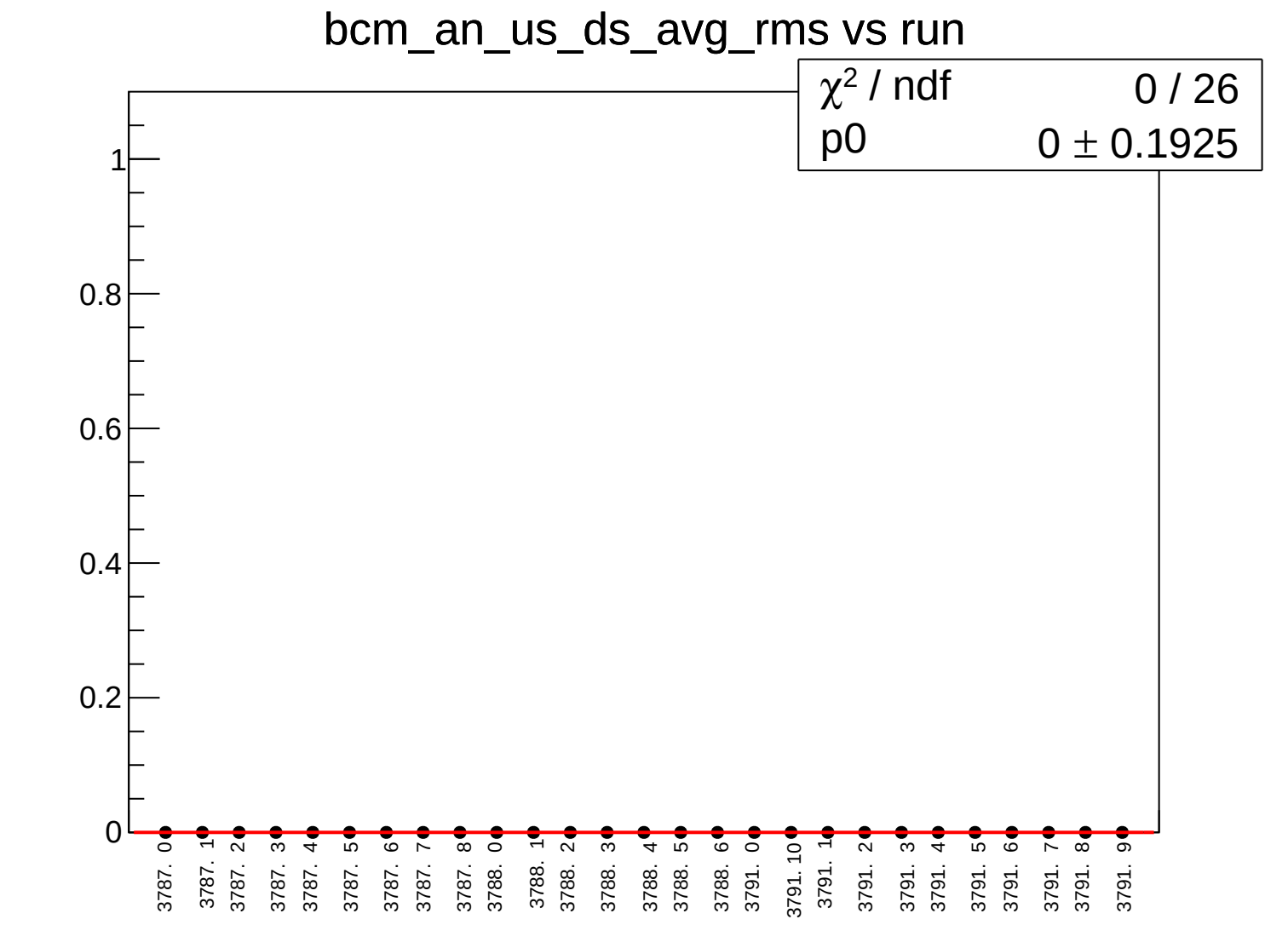

asym_bpm0l01WS_mean vs run
χ² / ndf 9.424 / 26
p0 153.4 ± 489.2
8000
6000
4000
2000
0
−2000
−4000
−6000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 103
Std Dev 90.31
1
0.5
0
−0.5
−1

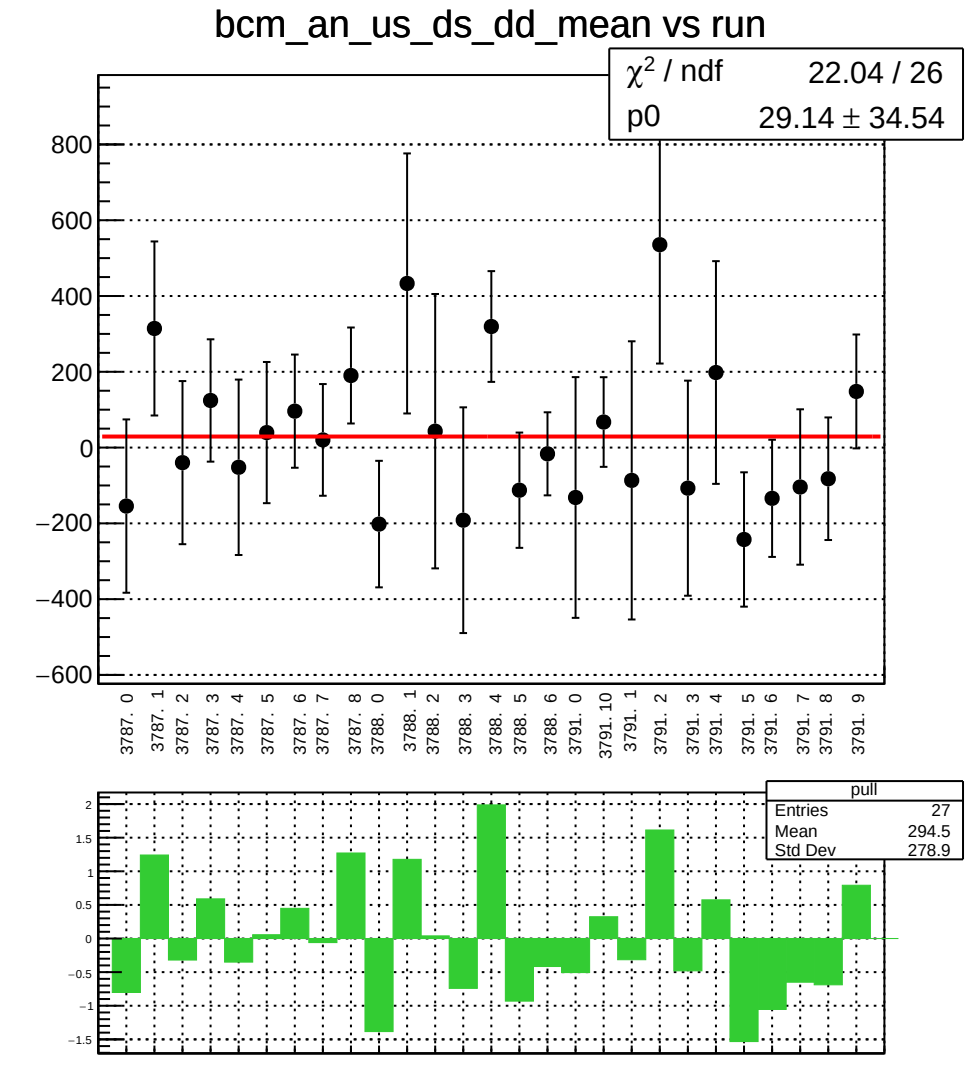

pull1D
Entries 27
Mean 0.01709
Std Dev 0.5905
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

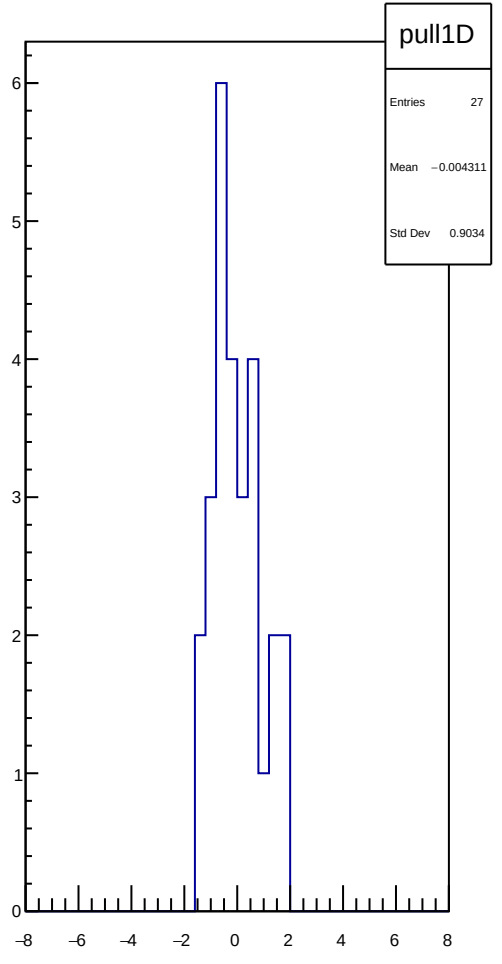

asym_bpm0l01WS_rms vs run
χ^2 / ndf 9210 / 26
p0 247.7 ± 0.3459
450
400
350
300
250
200
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

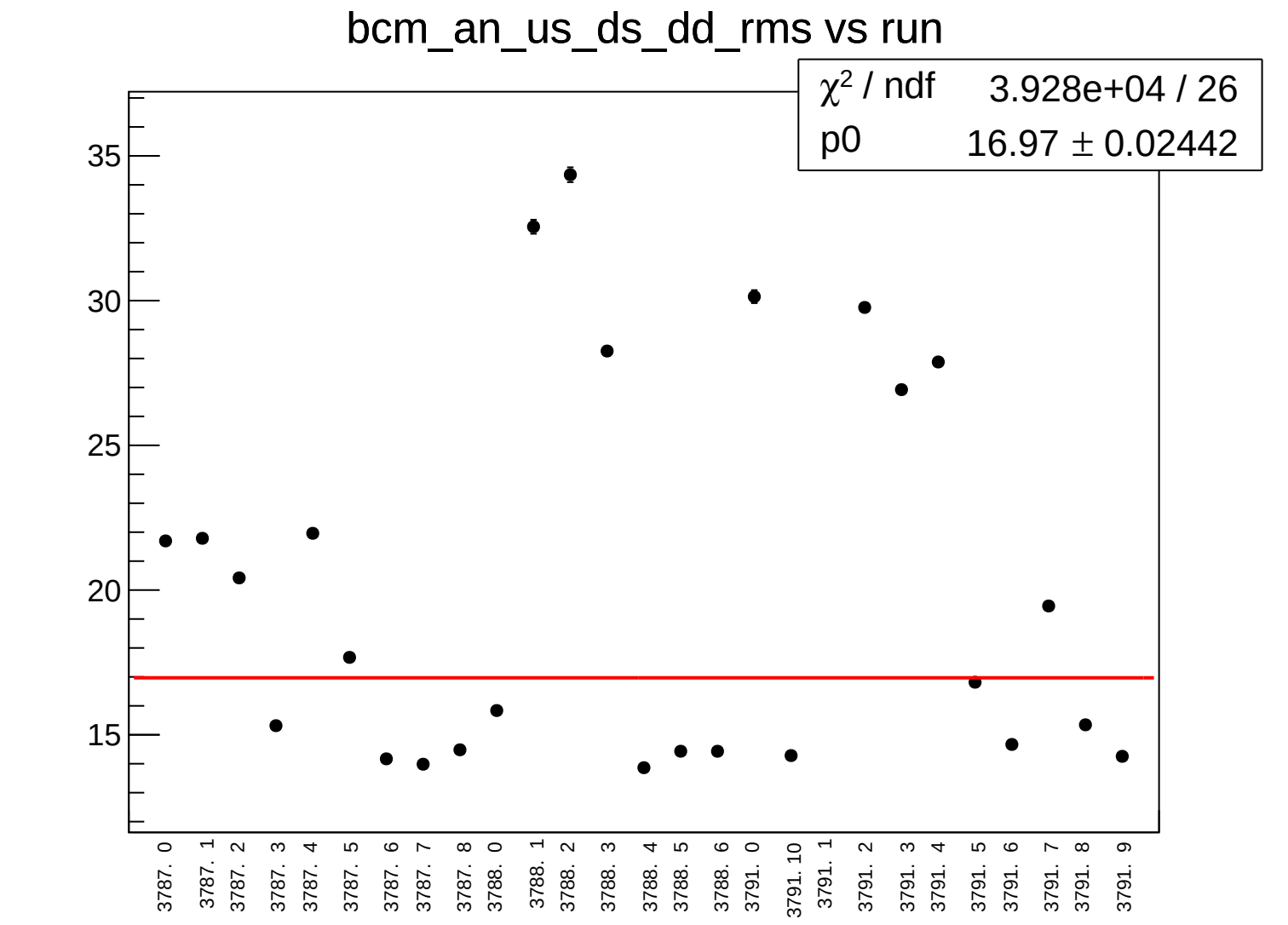

bcm_an_us_ds_avg_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 10
3787. 20
3787. 30
3787. 40
3787. 50
3787. 60
3787. 70
3787. 80
3788. 00
3788. 10
3788. 20
3788. 30
3788. 40
3788. 50
3788. 60
3791. 00
3791. 10
3791. 20
3791. 30
3791. 40
3791. 50
3791. 60
3791. 70
3791. 80
3791. 90


pull1D
Entries 27
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 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


bcm_an_us_ds_dd_mean vs run
χ² / ndf 22.04 / 26
p0 29.14 ± 34.54
800
600
400
200
0
−200
−400
−600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 294.5
Std Dev 278.9
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 27
Mean −0.004311
Std Dev 0.9034
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


bcm_an_us_ds_dd_rms vs run
χ² / ndf 3.928e+04 / 26
p0 16.97 ± 0.02442
35
30
25
20
15
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
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3791. 2
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3791. 6
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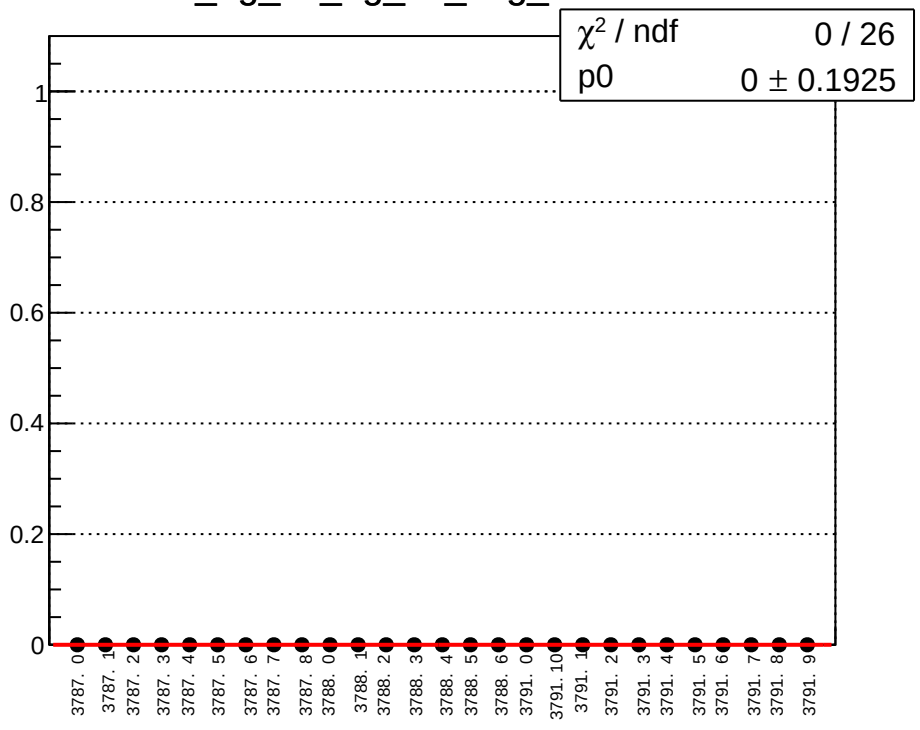
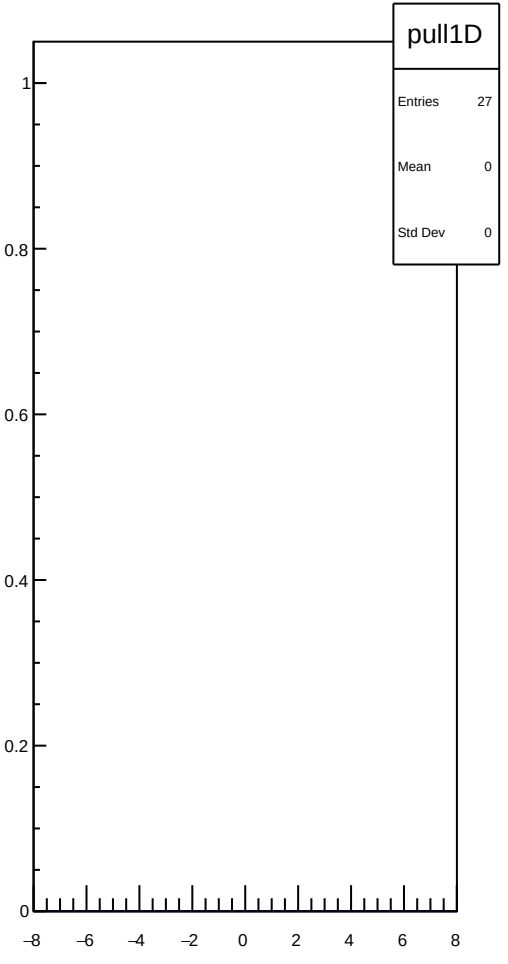
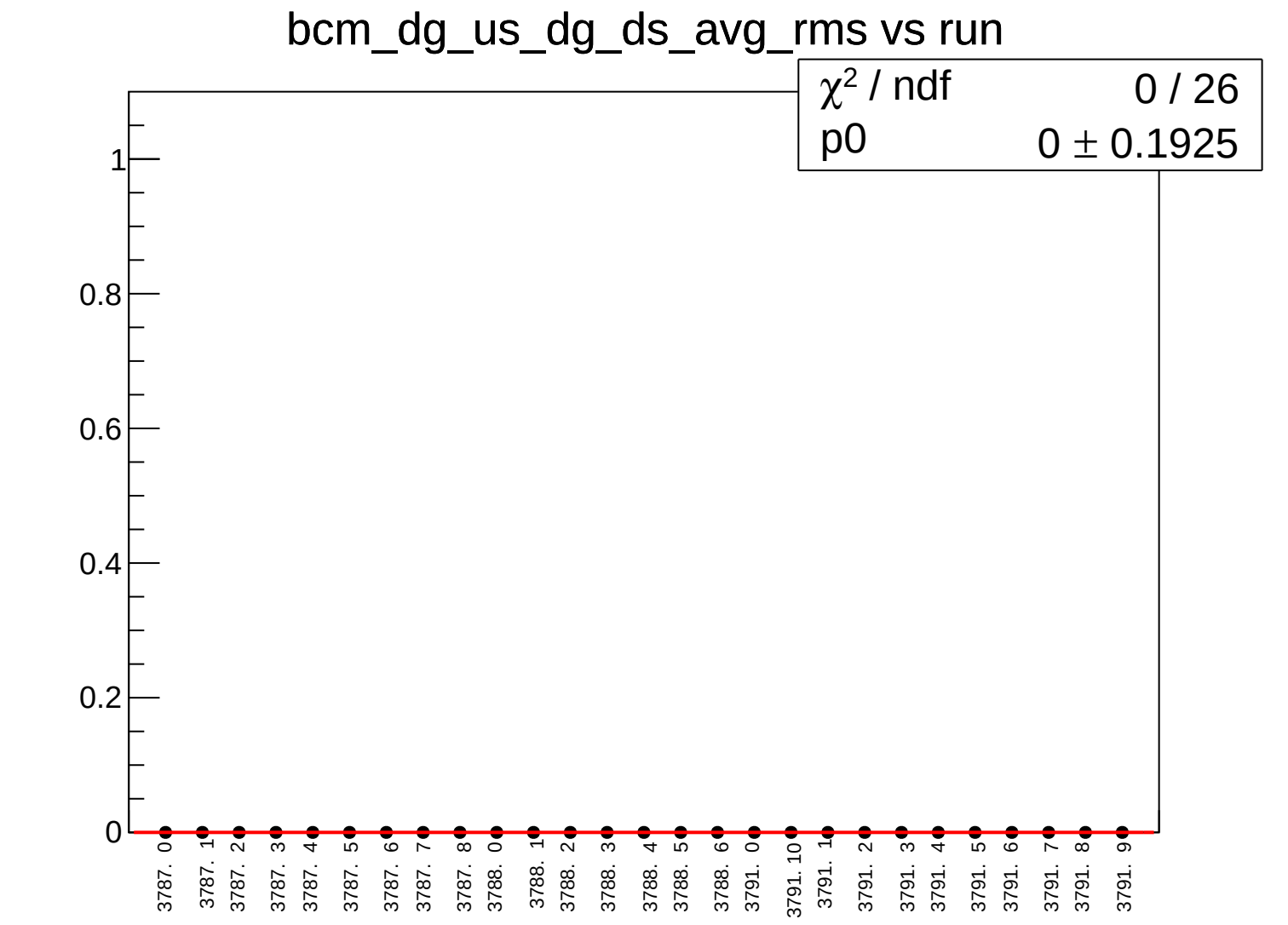
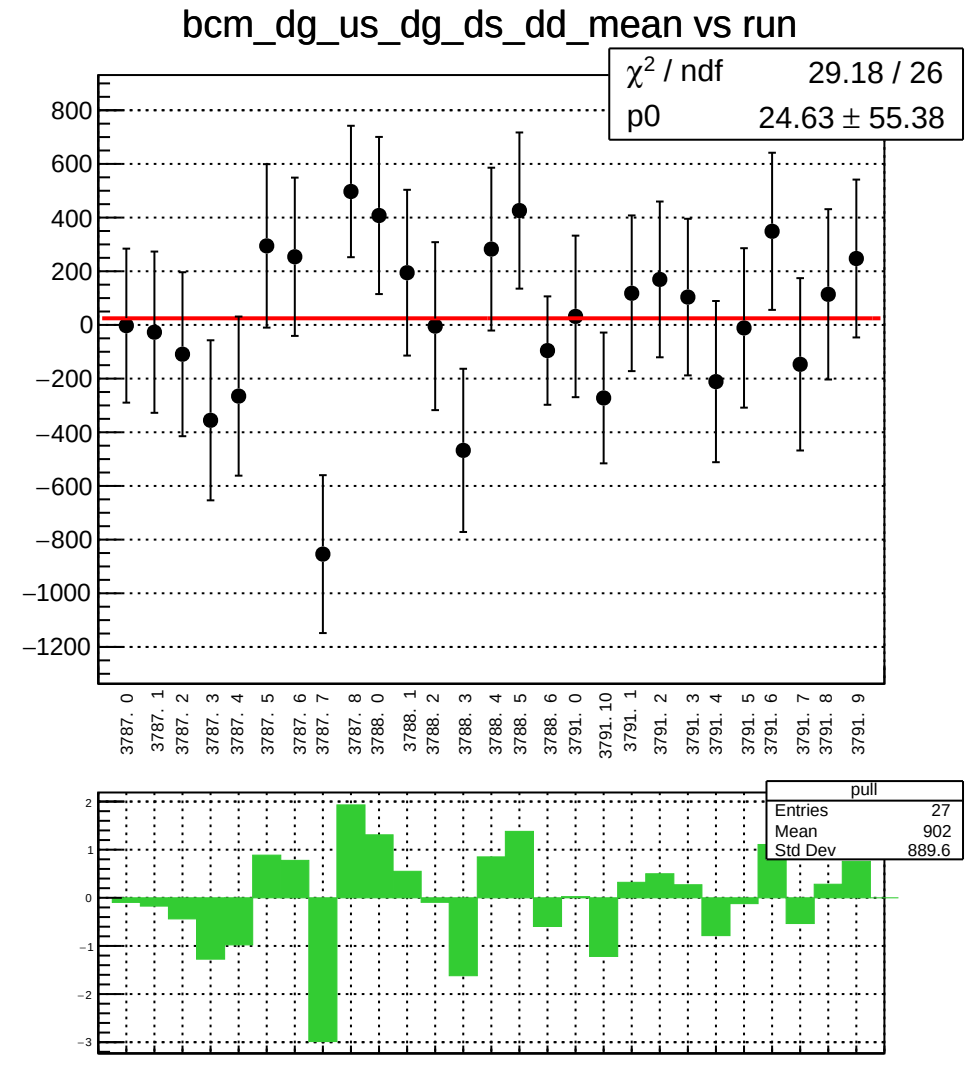
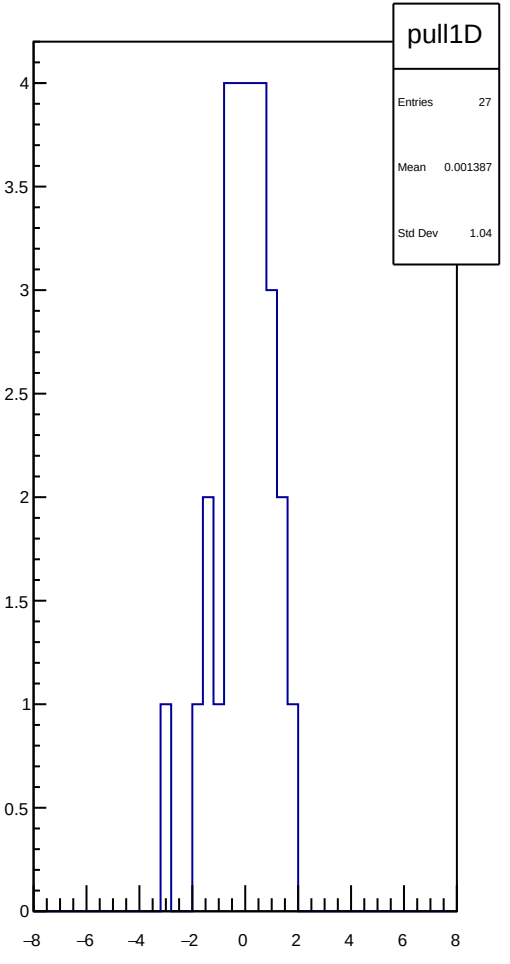
3791. 8
3791. 9

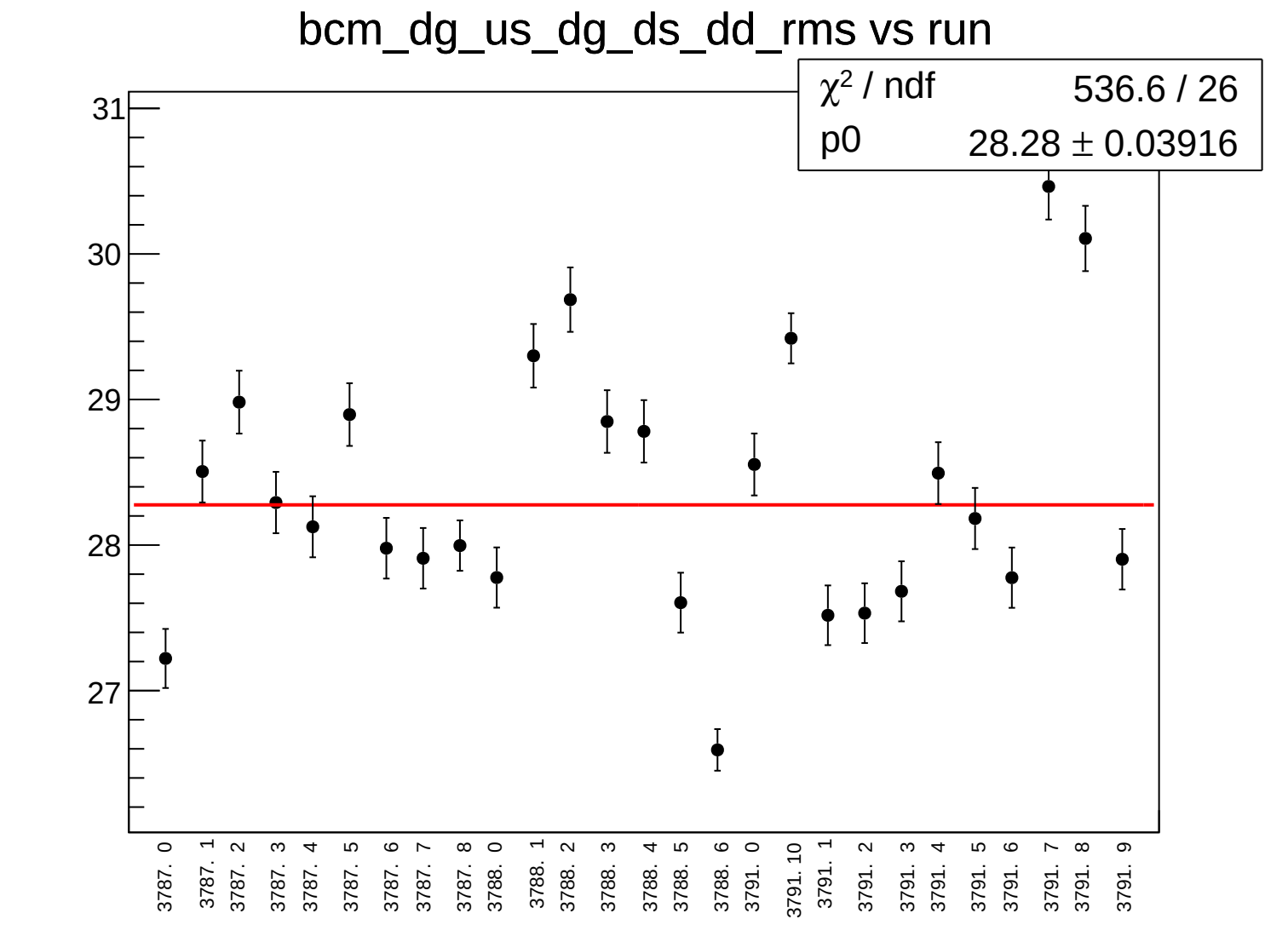

bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 10
3787. 20
3787. 30
3787. 40
3787. 50
3787. 60
3787. 70
3787. 80
3788. 00
3788. 10
3788. 20
3788. 30
3788. 40
3788. 50
3788. 60
3791. 00
3791. 10
3791. 20
3791. 30
3791. 40
3791. 50
3791. 60
3791. 70
3791. 80
3791. 90

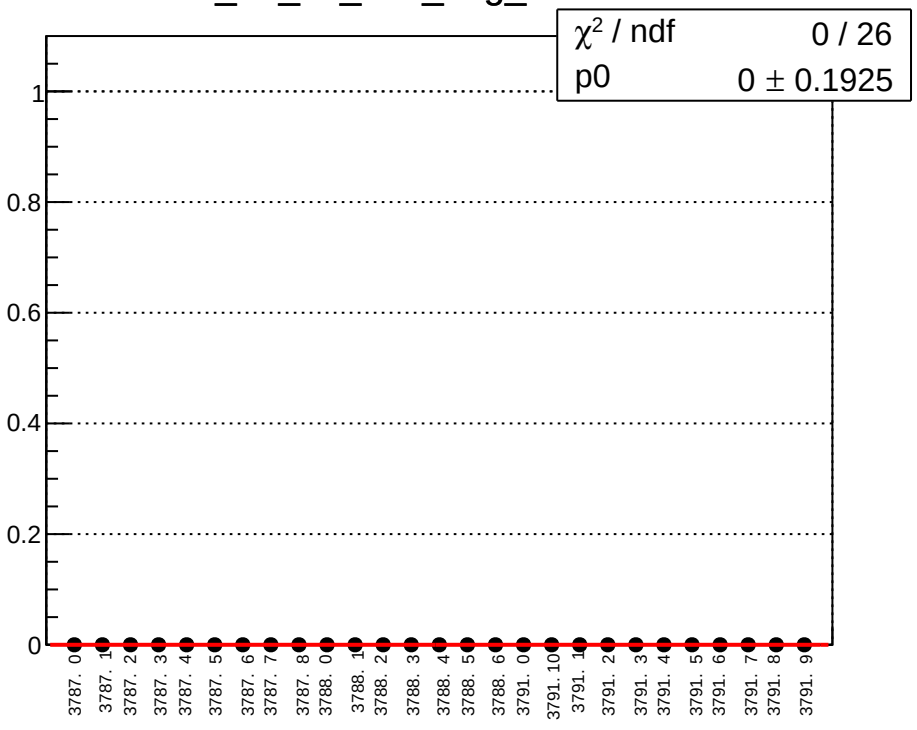

pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

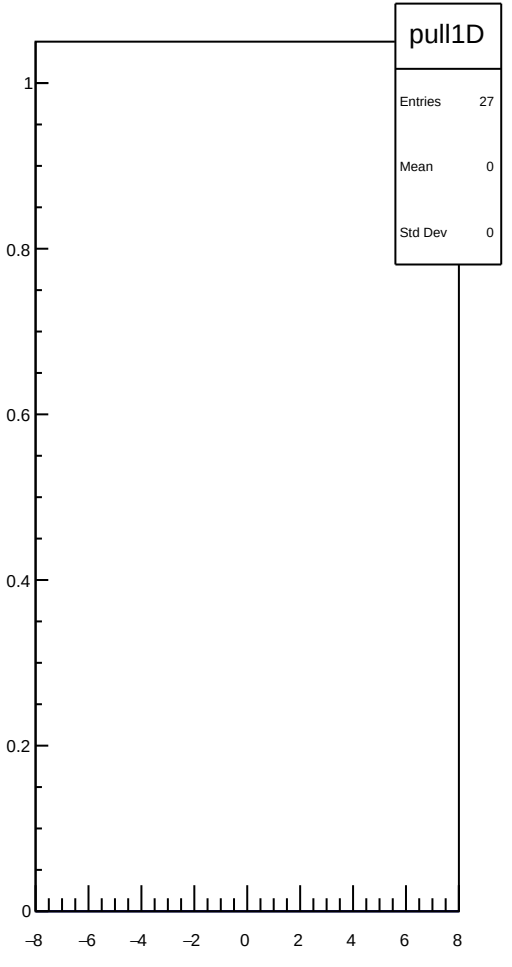

bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

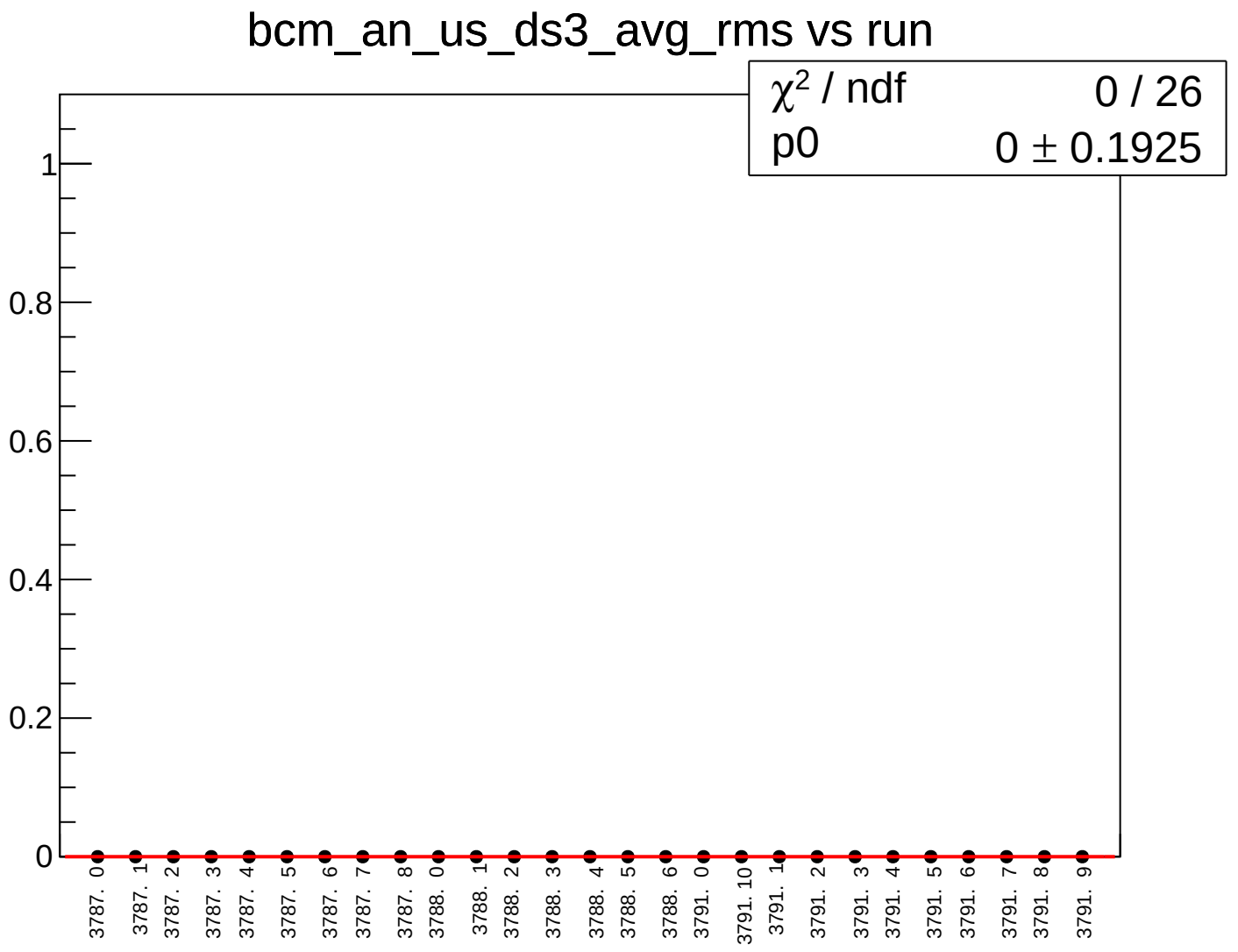

bcm_dg_us_dg_ds_dd_mean vs run
χ^2 / ndf 29.18 / 26
p0 24.63 ± 55.38
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 902
Std Dev 889.6
2
1
0
−1
−2
−3

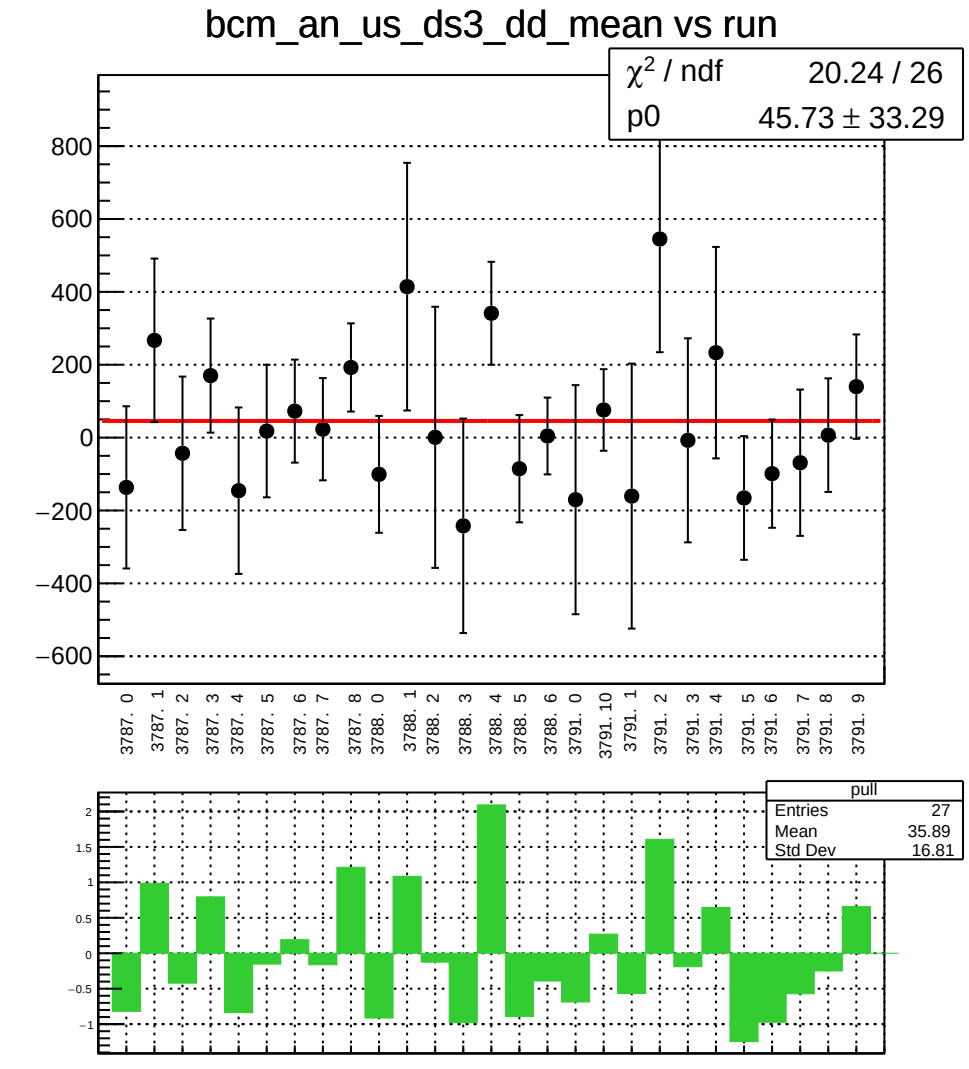

pull1D
Entries 27
Mean 0.001387
Std Dev 1.04
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

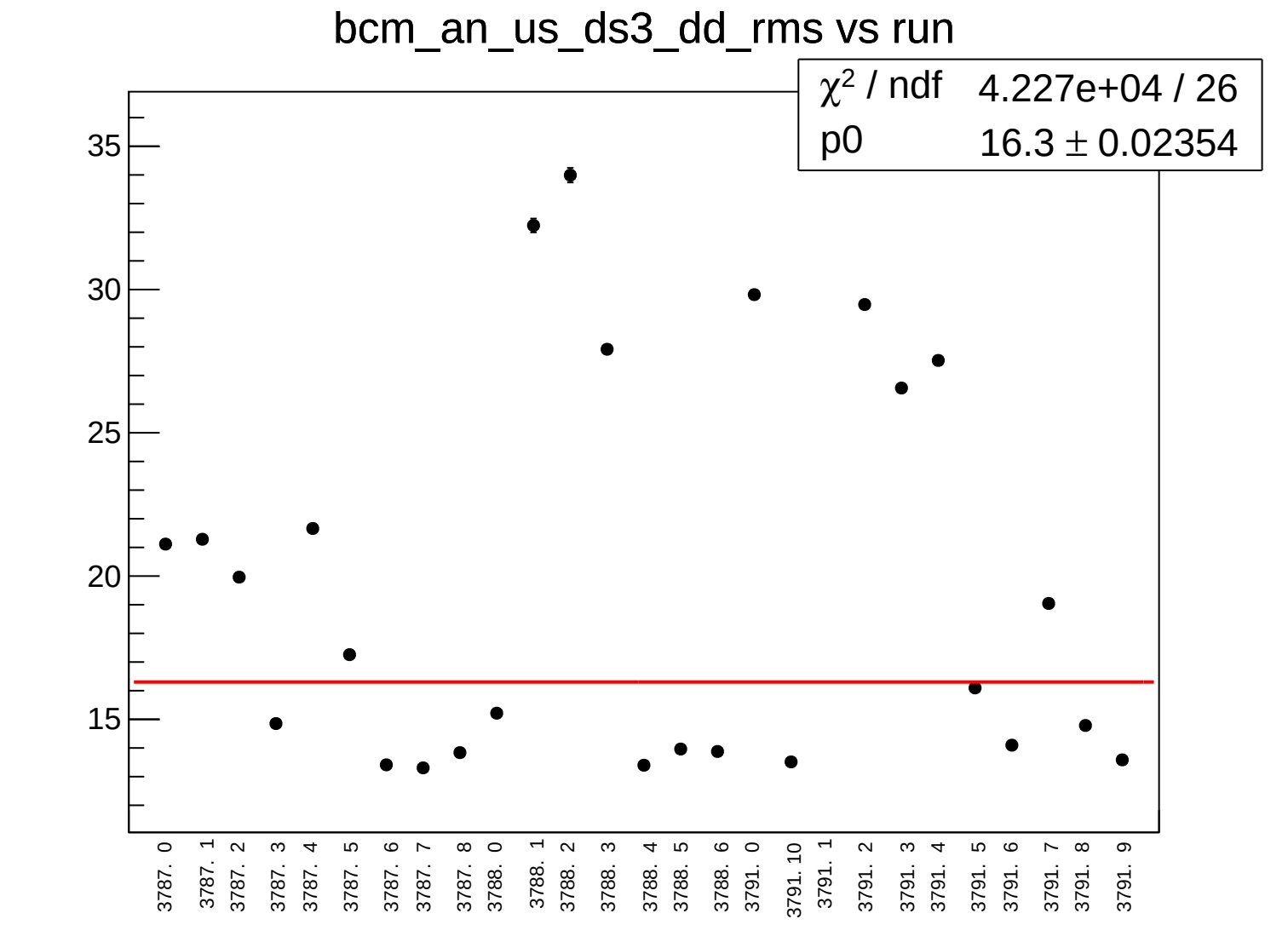

bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 536.6 / 26
p0 28.28 ± 0.03916
31
30
29
28
27
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

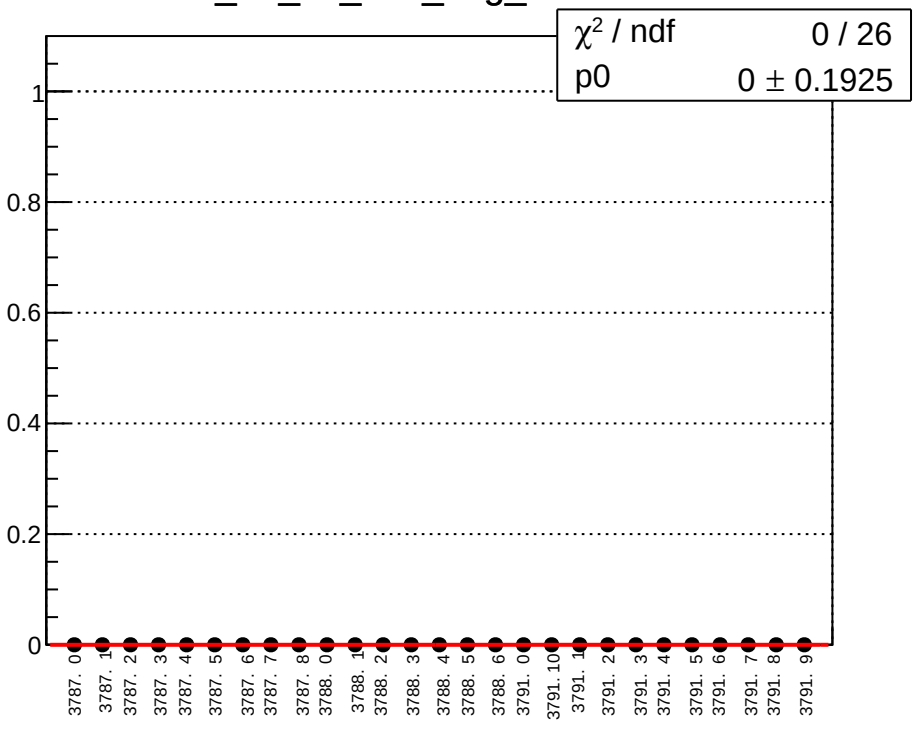

bcm_an_us_ds3_avg_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 10
3787. 20
3787. 30
3787. 40
3787. 50
3787. 60
3787. 70
3787. 80
3788. 00
3788. 10
3788. 20
3788. 30
3788. 40
3788. 50
3788. 60
3791. 00
3791. 10
3791. 20
3791. 30
3791. 40
3791. 50
3791. 60
3791. 70
3791. 80
3791. 90

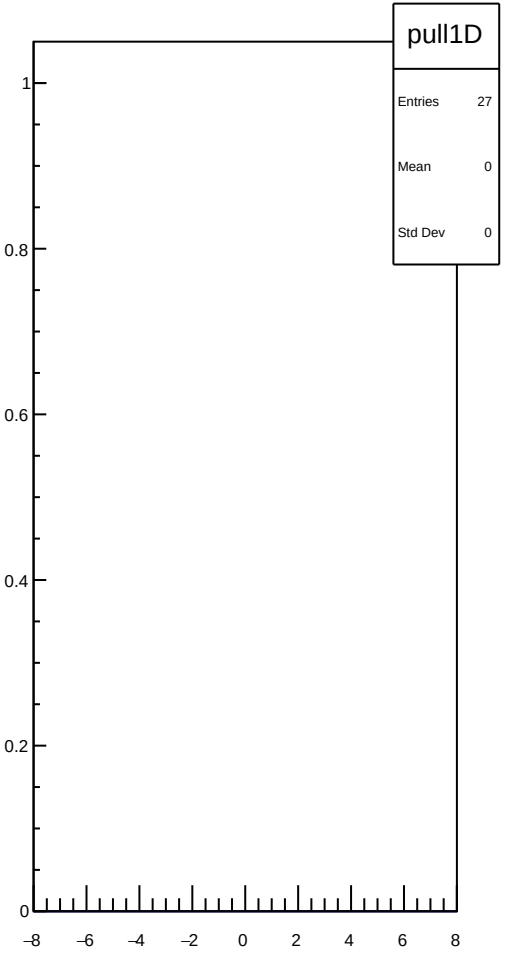

pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_an_us_ds3_avg_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


bcm_an_us_ds3_dd_mean vs run
χ² / ndf 20.24 / 26
p0 45.73 ± 33.29
800
600
400
200
0
−200
−400
−600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 35.89
Std Dev 16.81
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean −0.02352
Std Dev 0.8655
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


bcm_an_us_ds3_dd_rms vs run
χ² / ndf 4.227e+04 / 26
p0 16.3 ± 0.02354
35
30
25
20
15
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


bcm_an_ds_ds3_avg_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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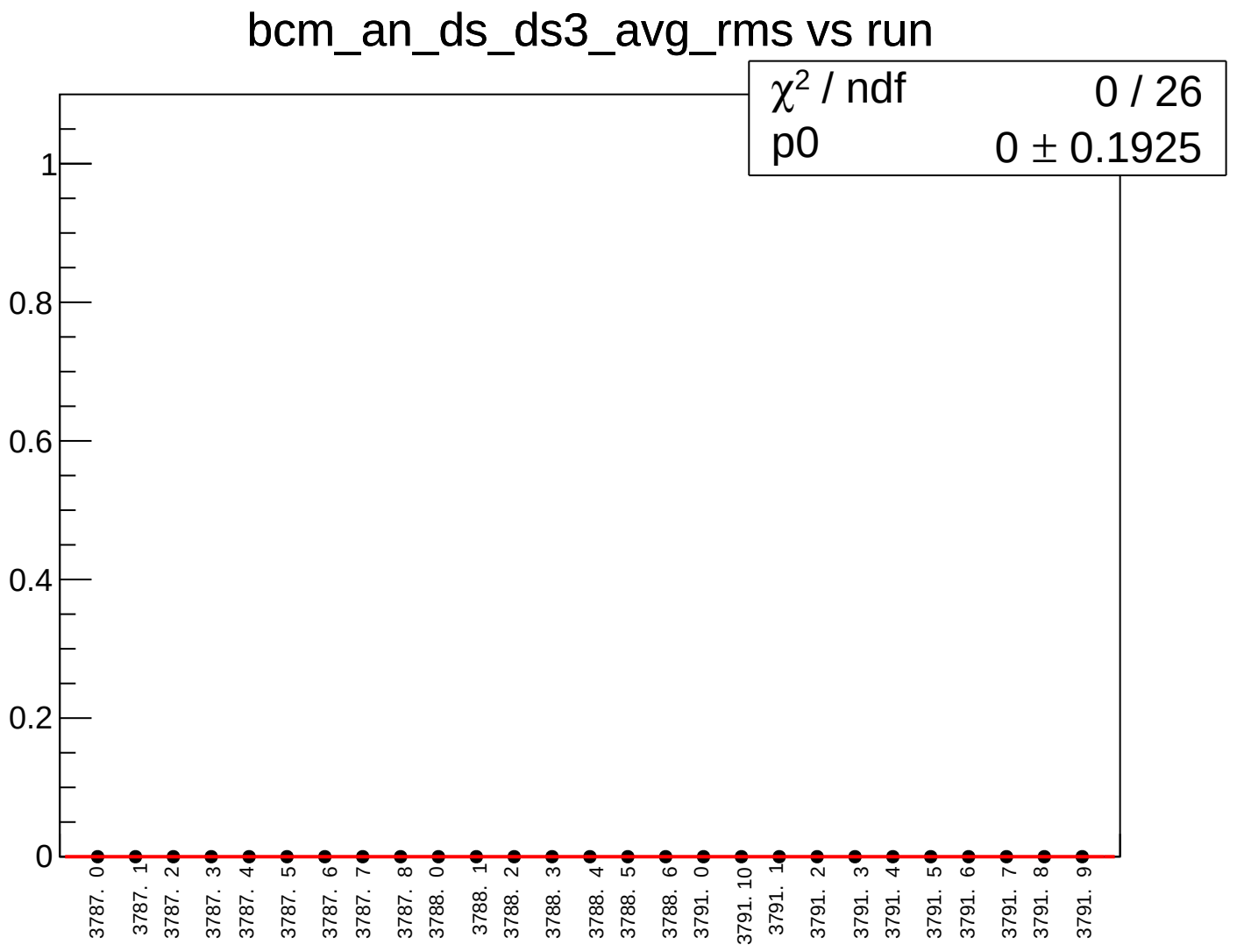
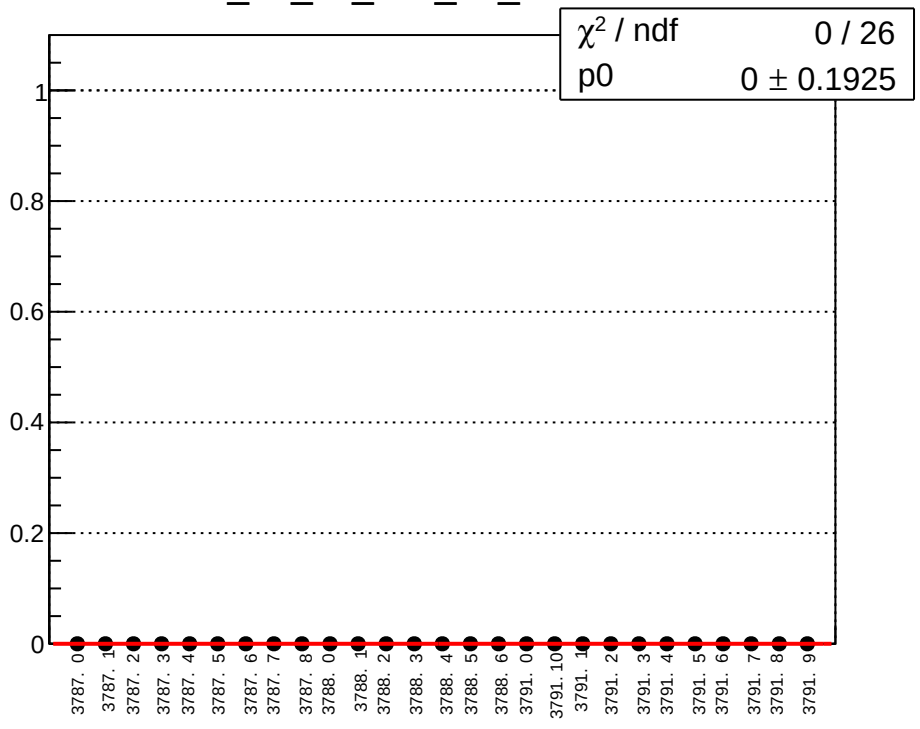
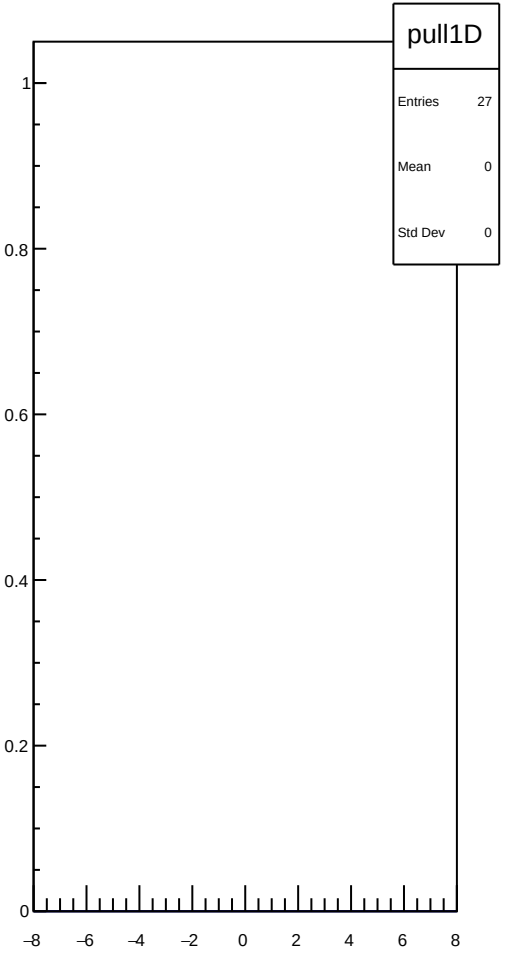
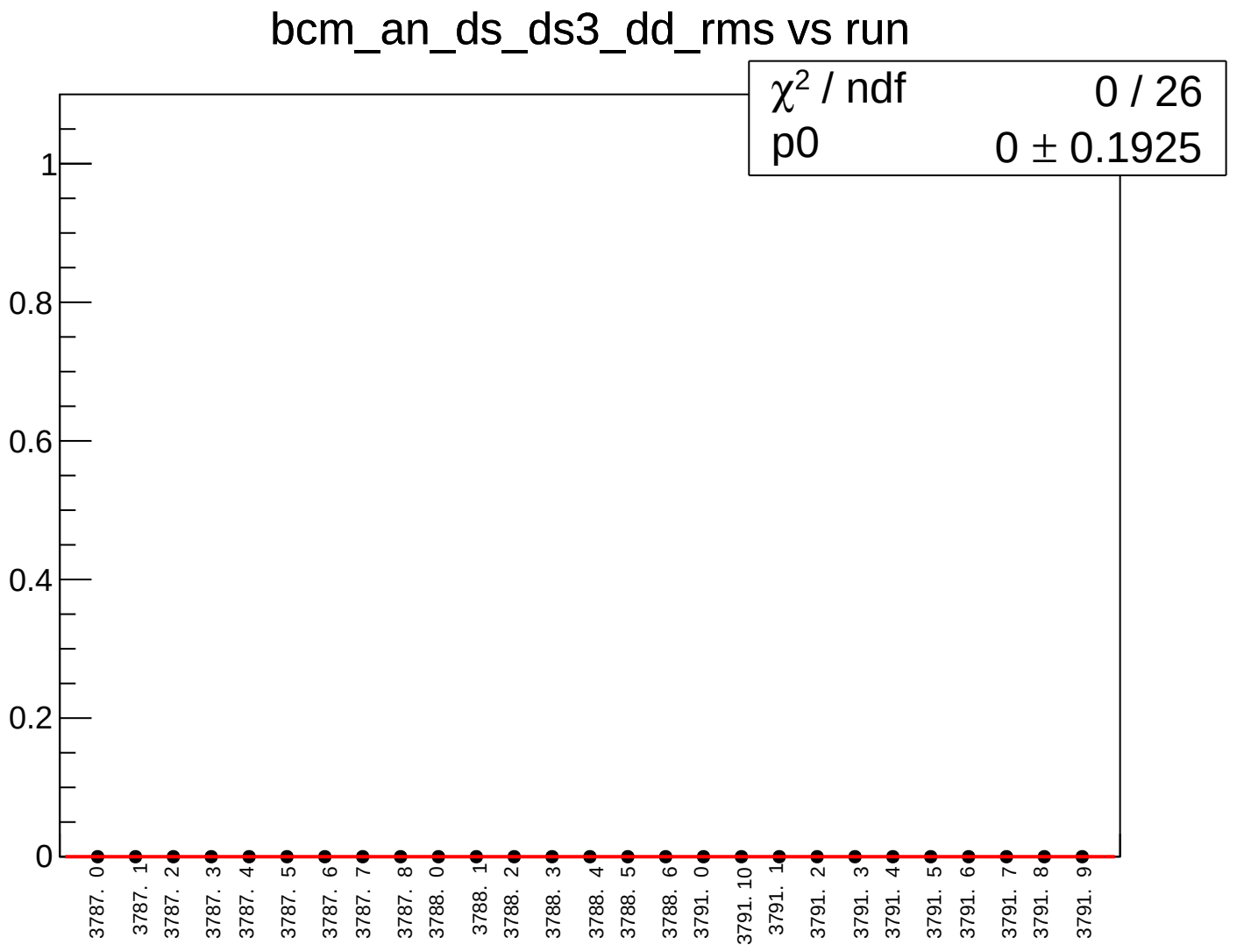
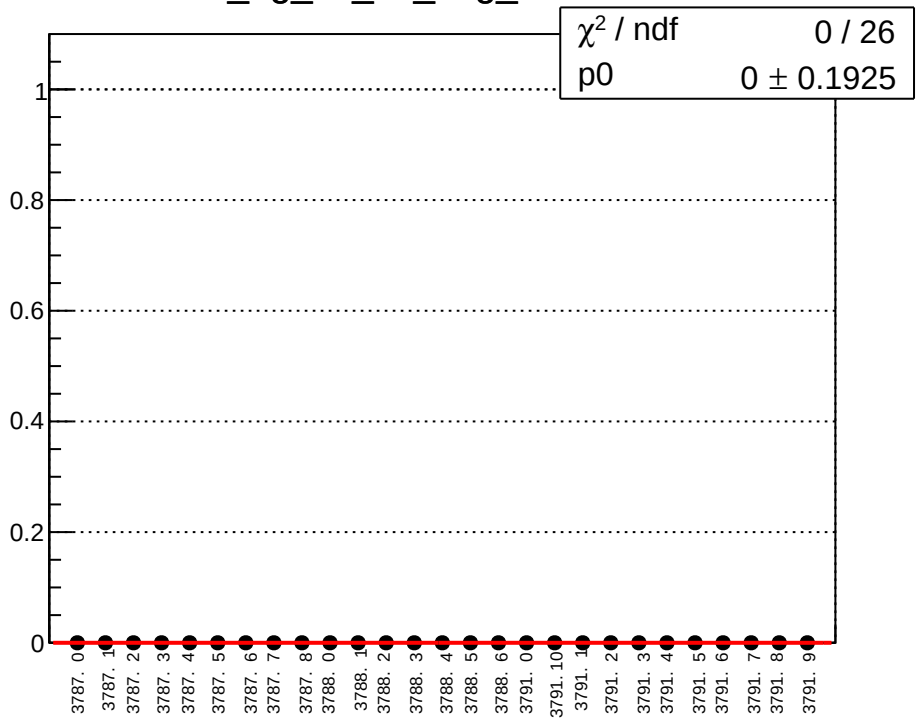
0
2
4
6
8

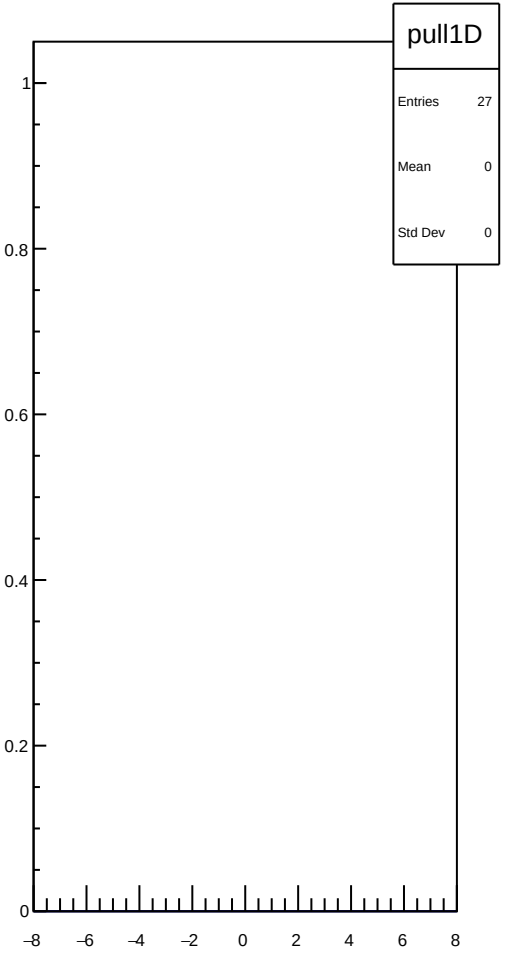

bcm_an_ds_ds3_avg_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

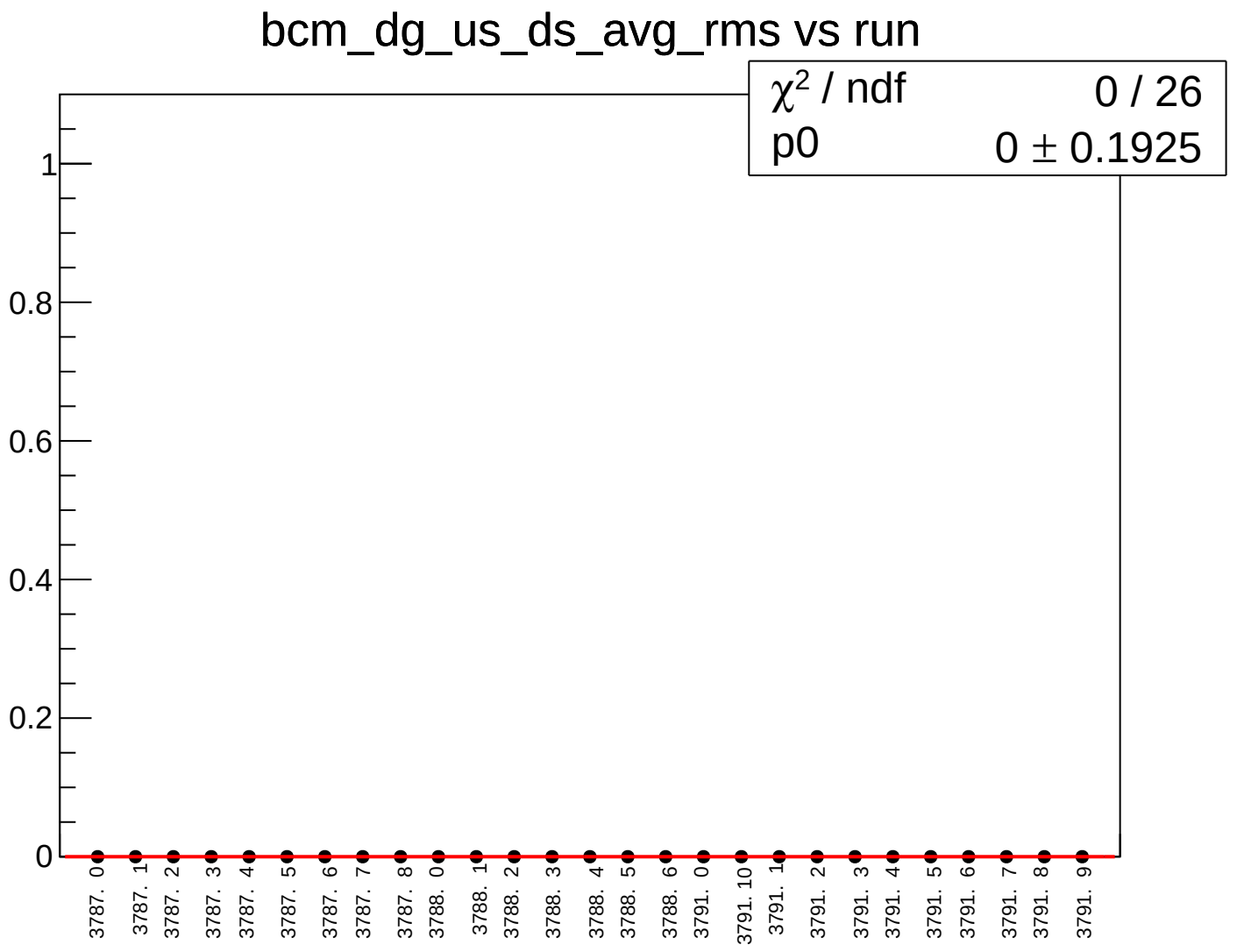

bcm_an_ds_ds3_dd_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

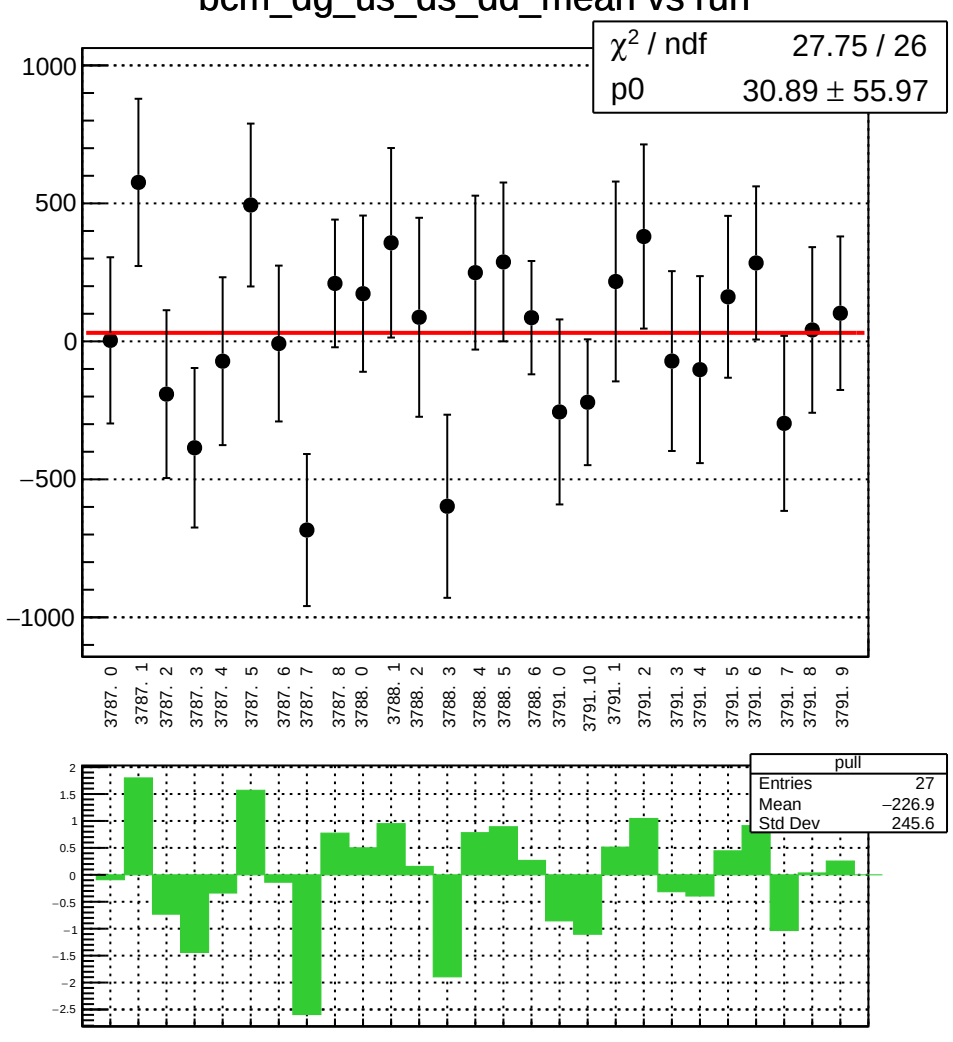

pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

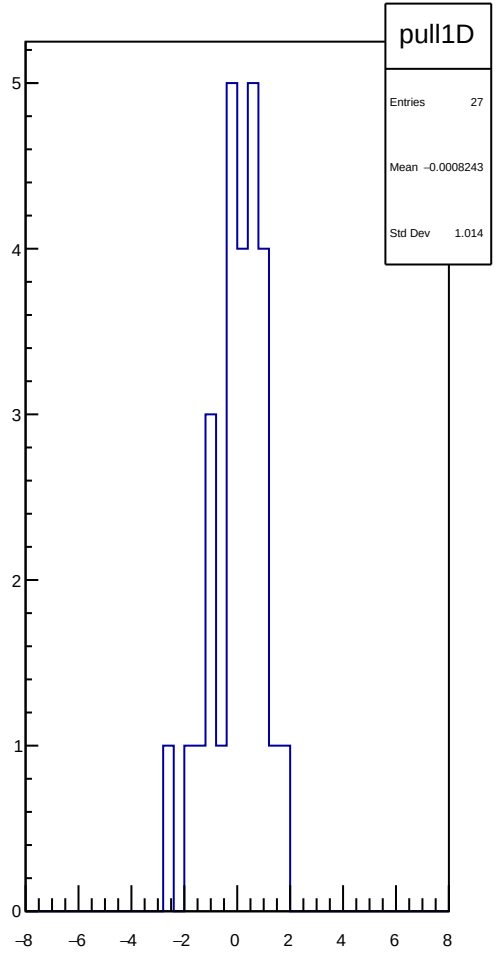

bcm_an_ds_ds3_dd_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

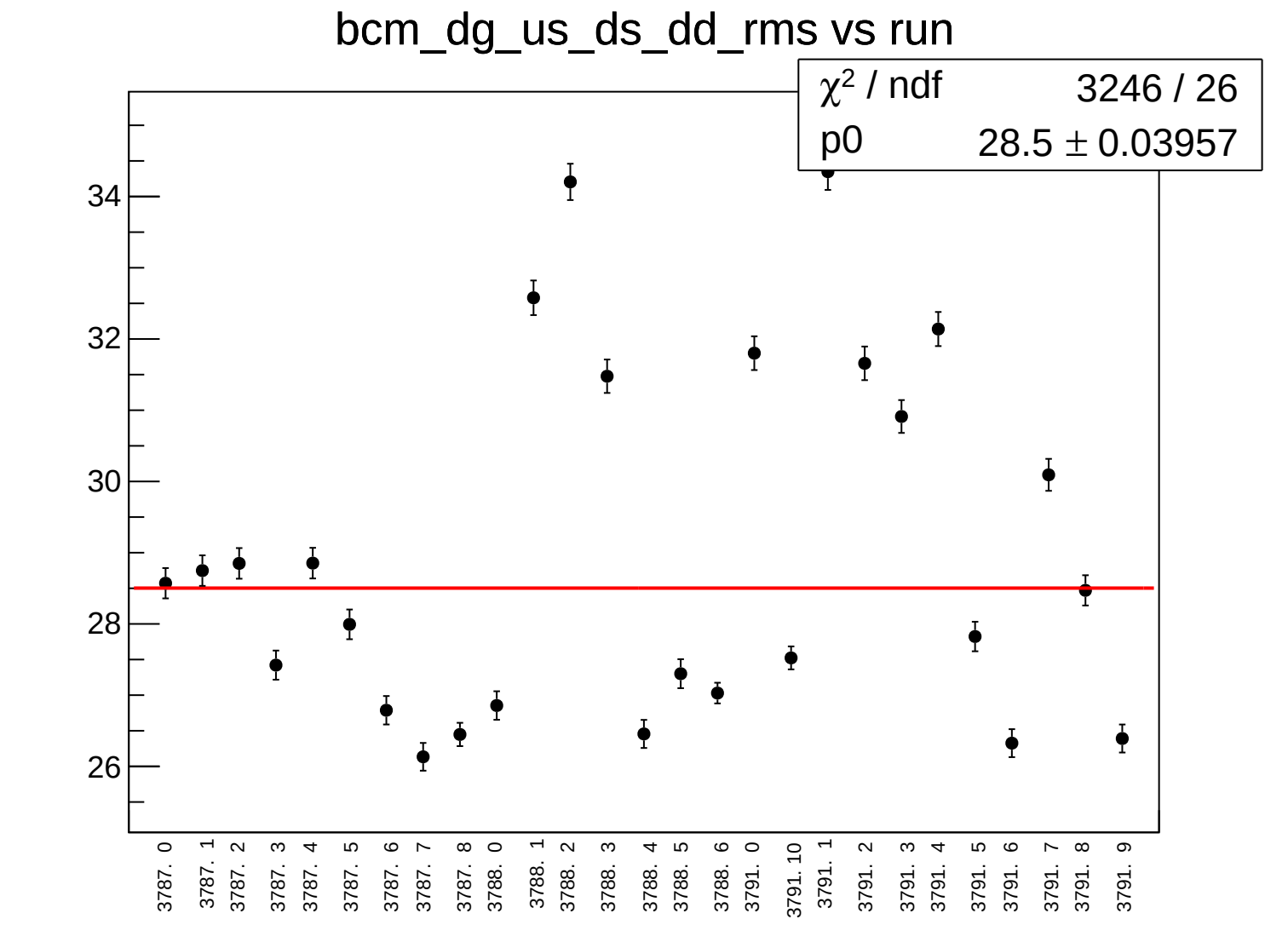

bcm_dg_us_ds_avg_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

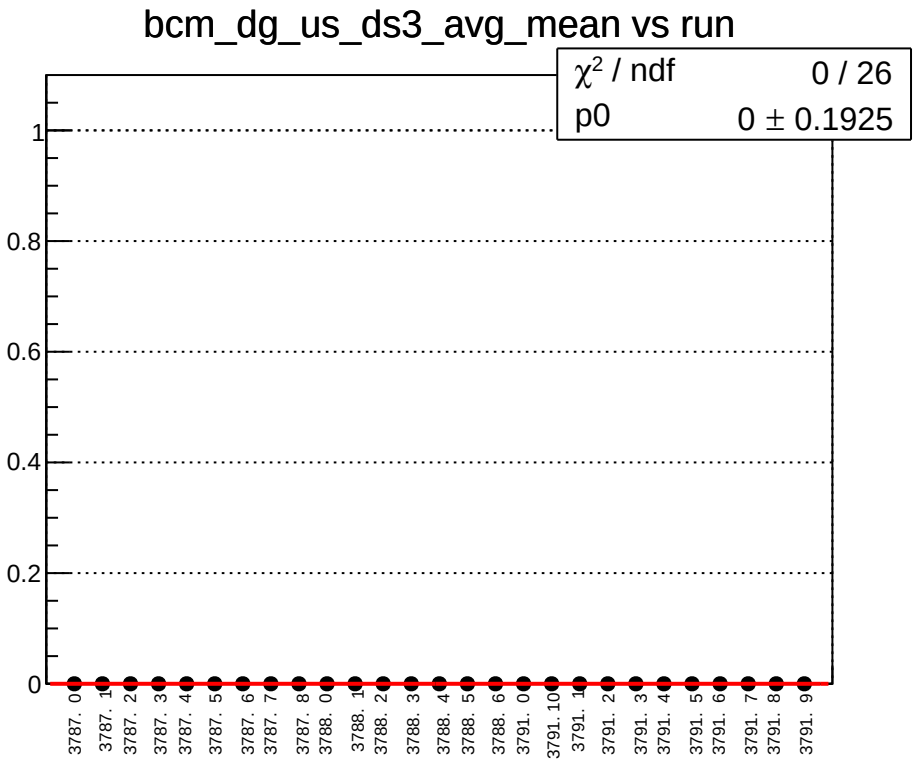

pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

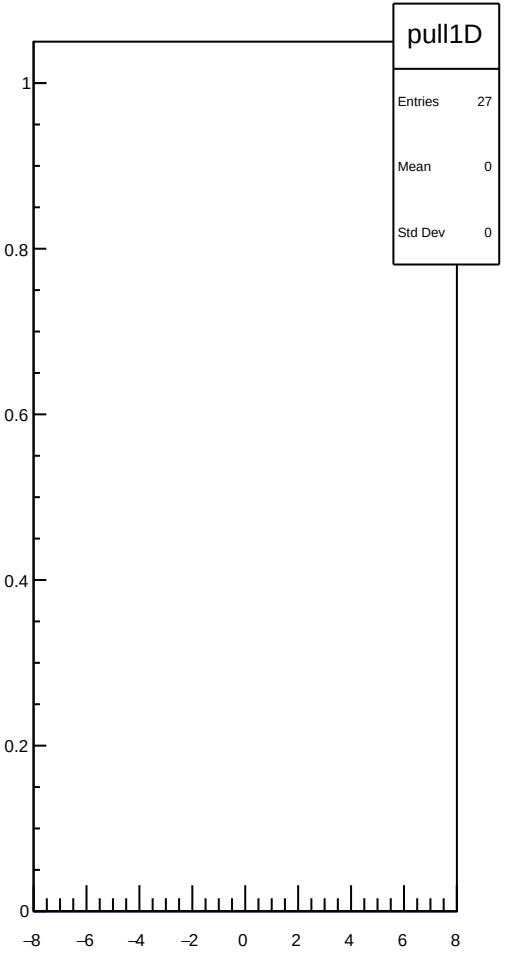

bcm_dg_us_ds_avg_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

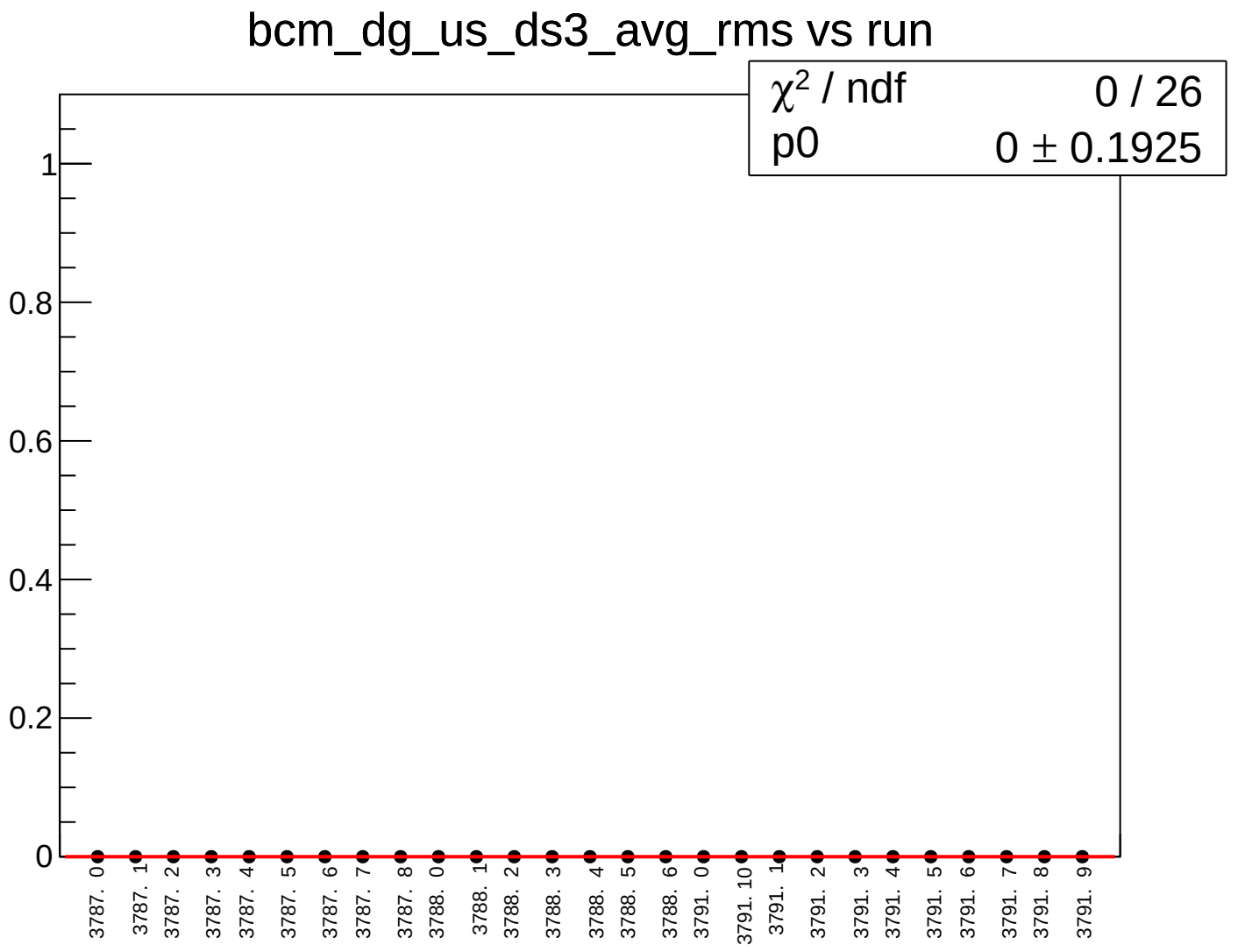

bcm_dg_us_ds_dd_mean vs run
χ² / ndf 27.75 / 26
p0 30.89 ± 55.97
1000
500
0
−500
−1000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −226.9
Std Dev 245.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

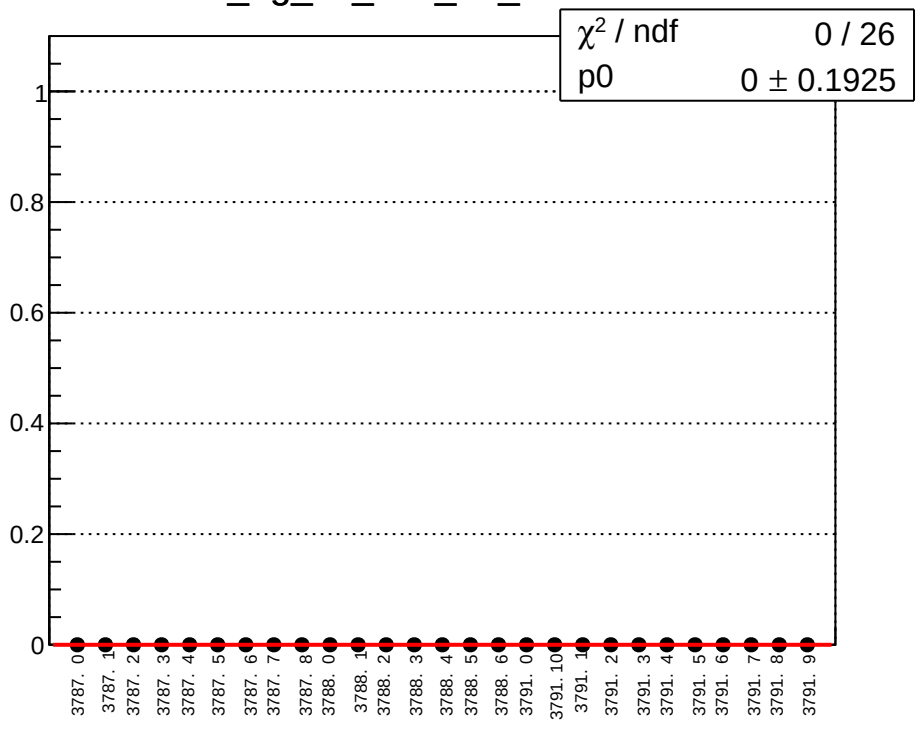

pull1D
Entries 27
Mean −0.0008243
Std Dev 1.014
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


bcm_dg_us_ds_dd_rms vs run
χ² / ndf 3246 / 26
p0 28.5 ± 0.03957
34
32
30
28
26
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


bcm_dg_us_ds3_avg_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


pull1D
Entries 27
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 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


bcm_dg_us_ds3_dd_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
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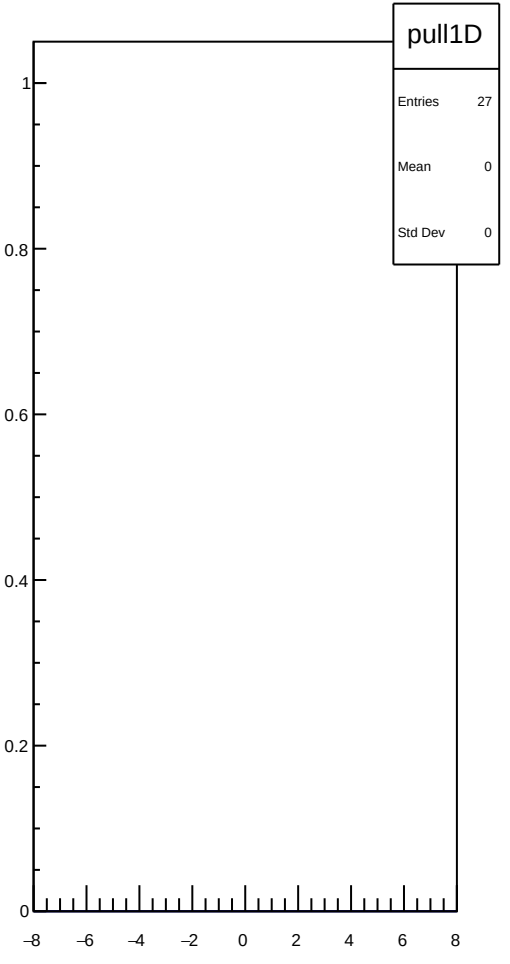
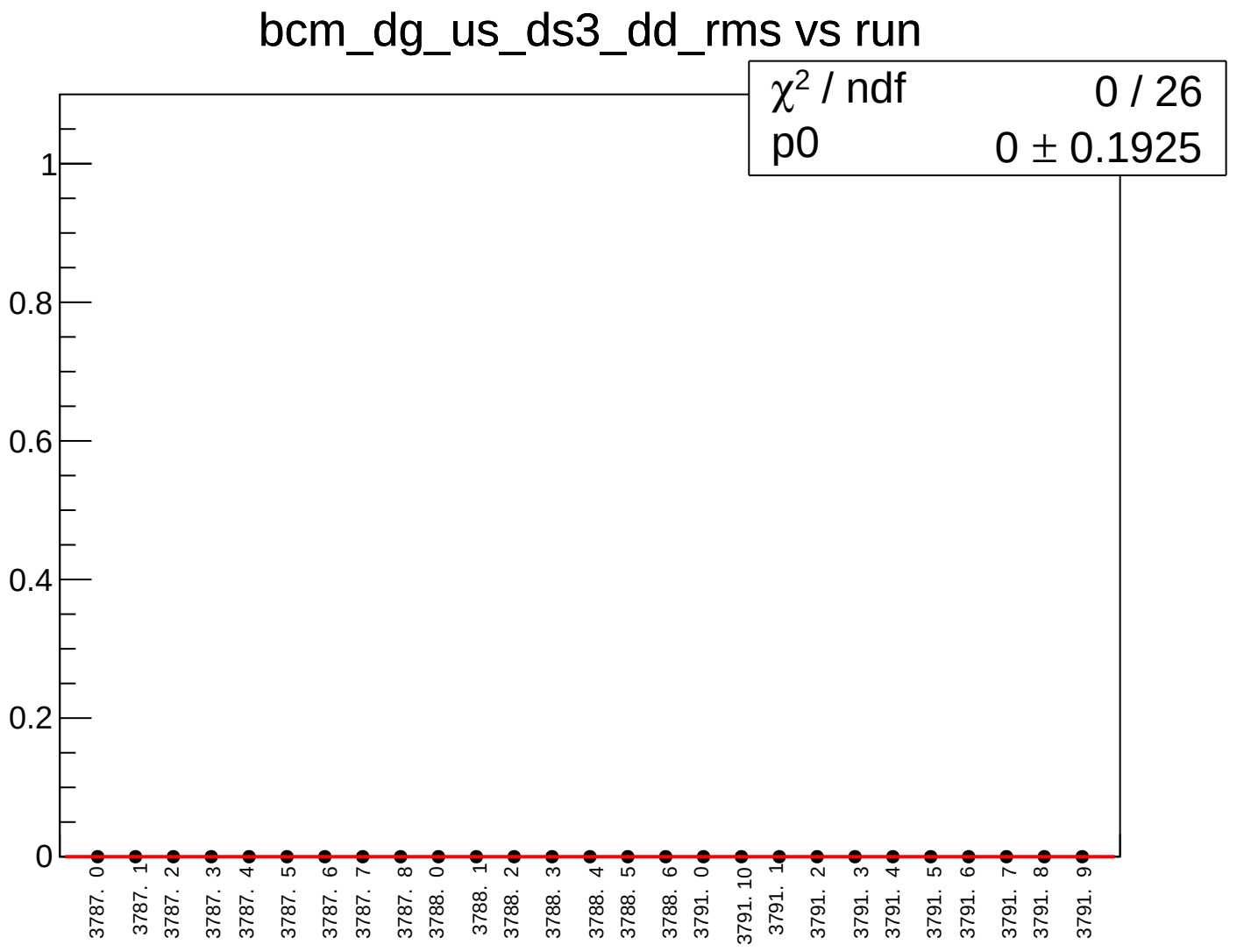
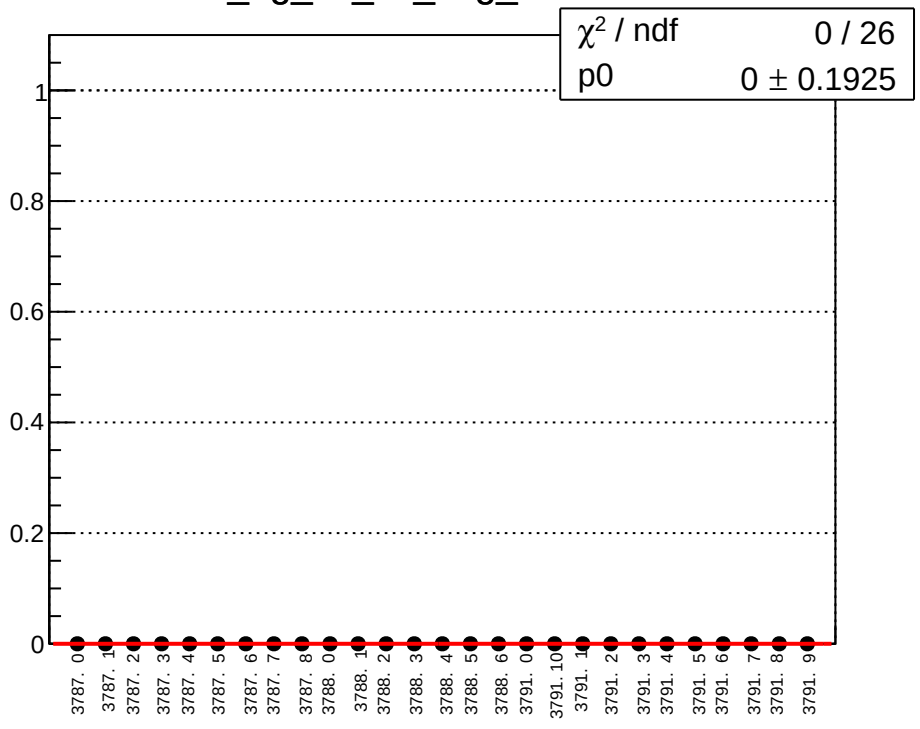
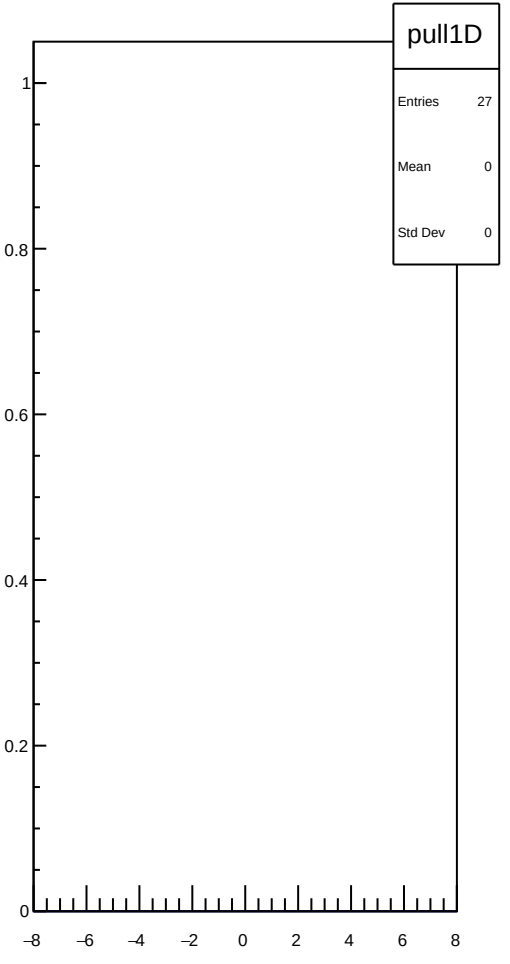
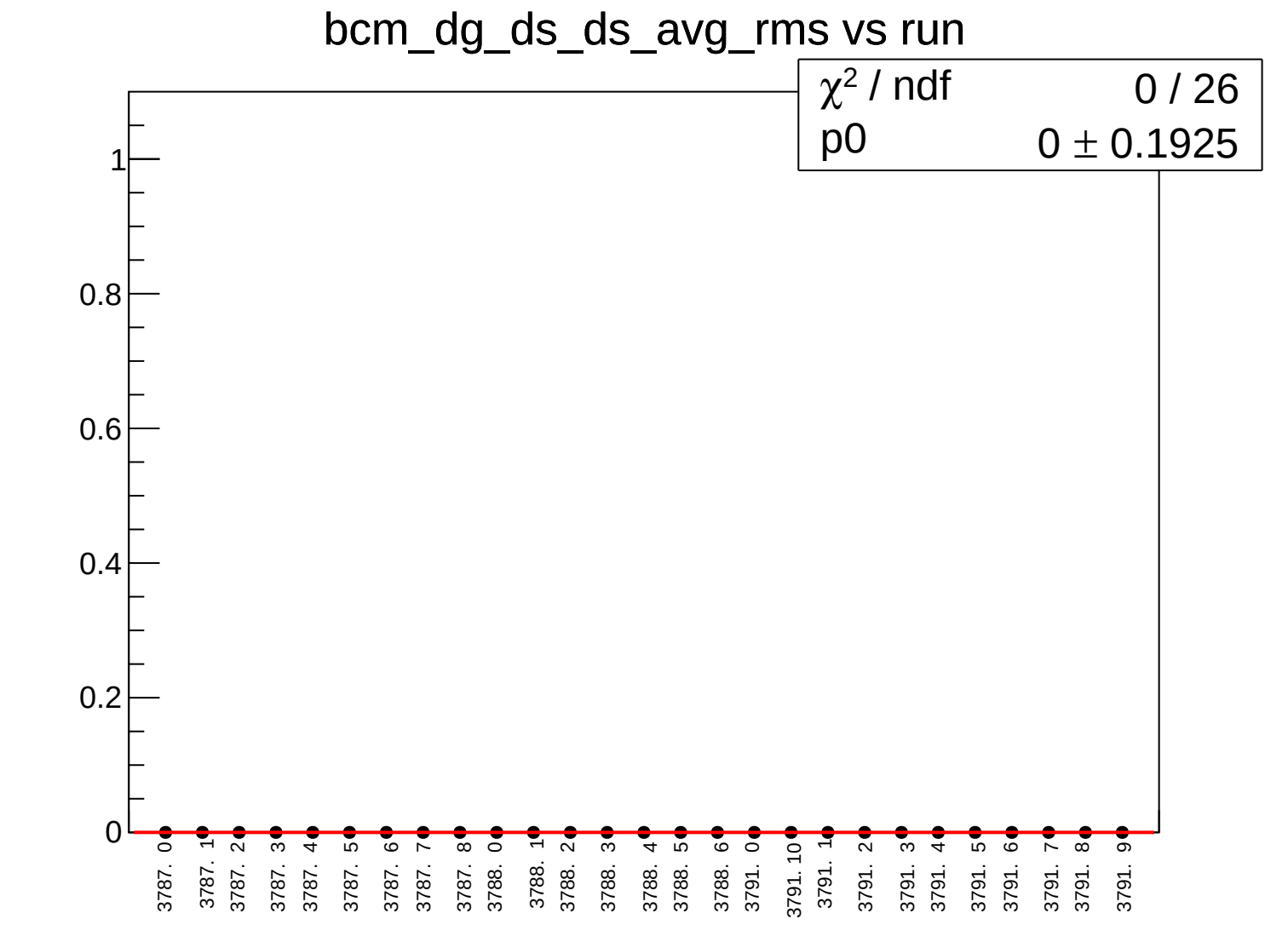
3791. 9


pull1D
Entries 27
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 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


bcm_dg_ds_ds_avg_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


pull1D
Entries 27
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 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
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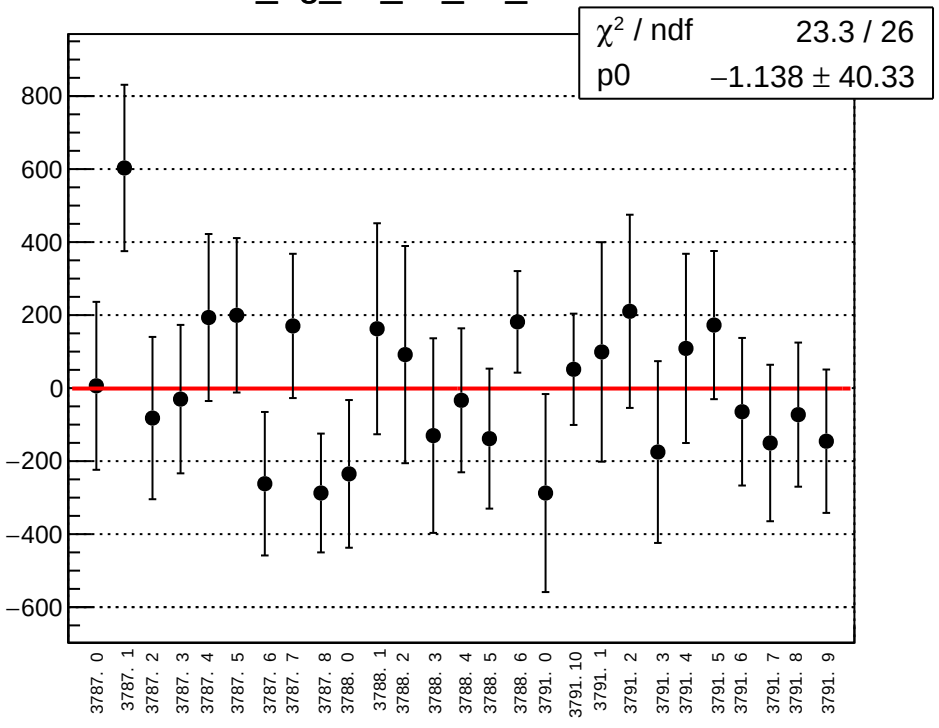
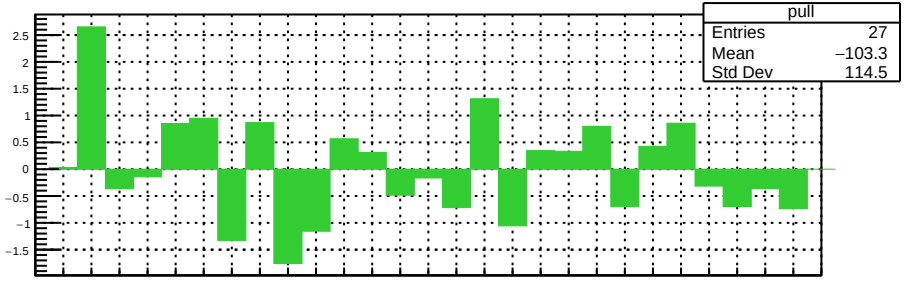
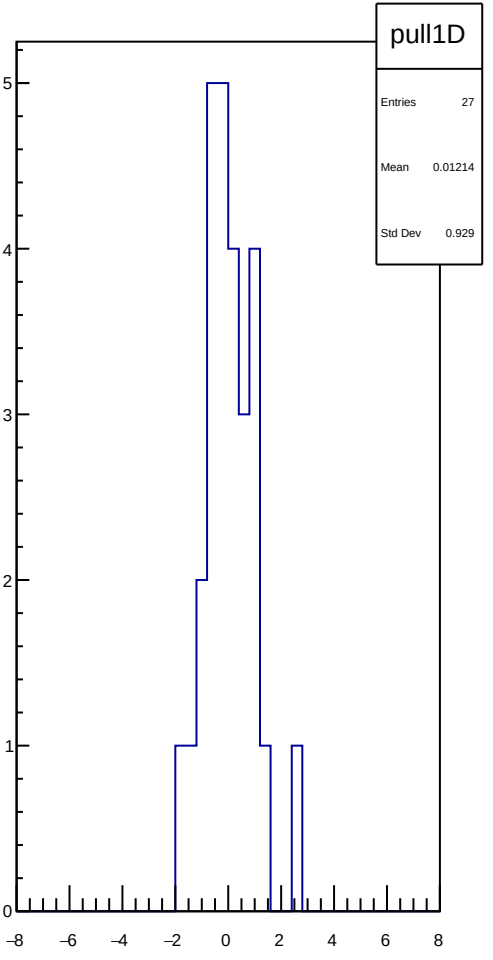
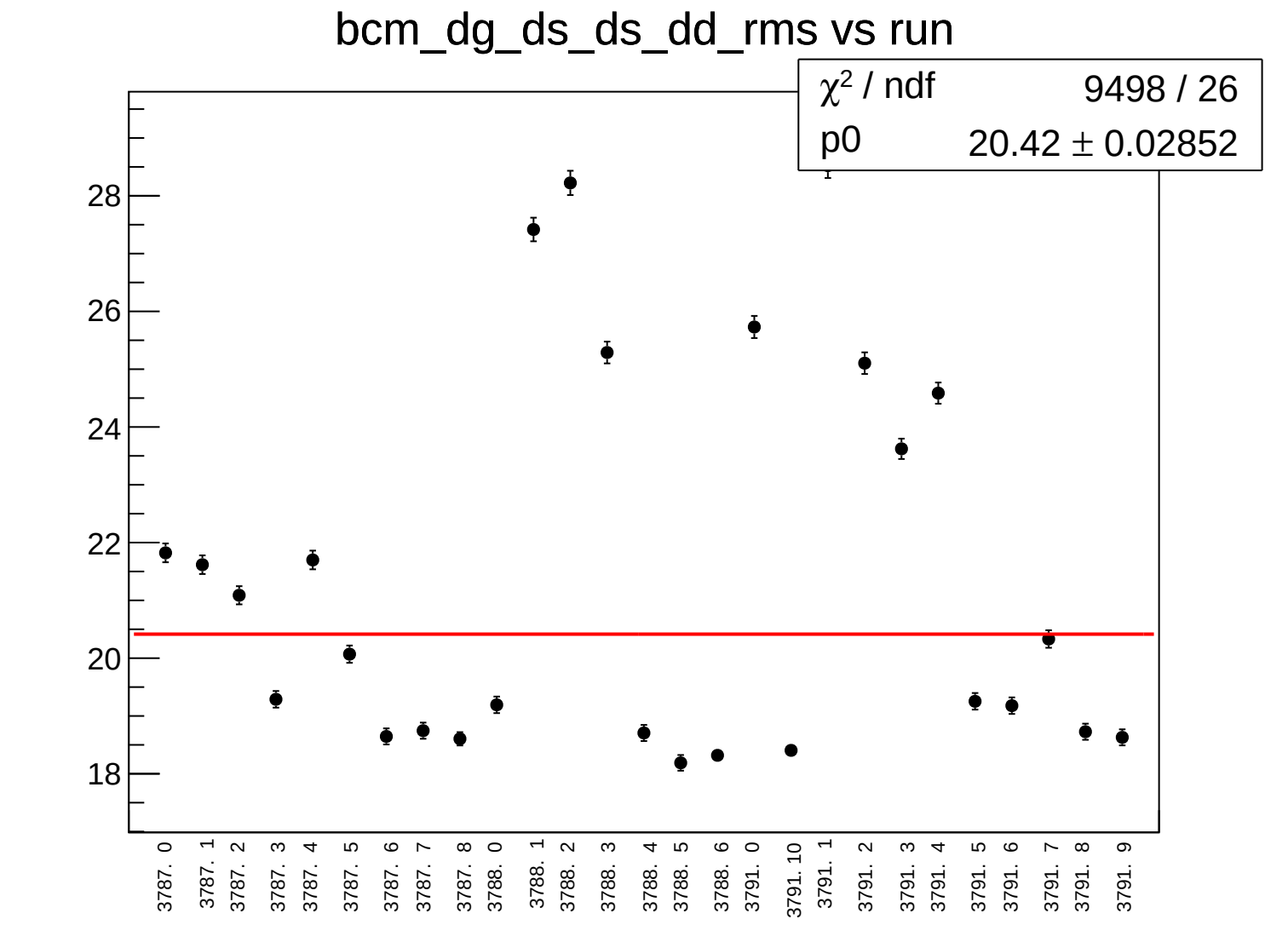
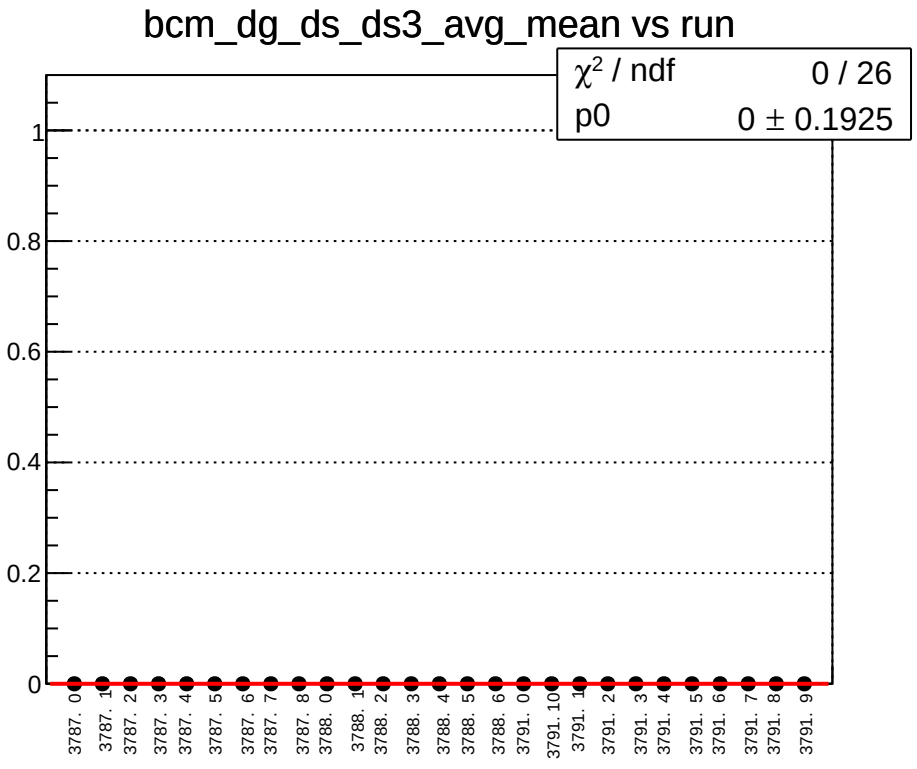
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

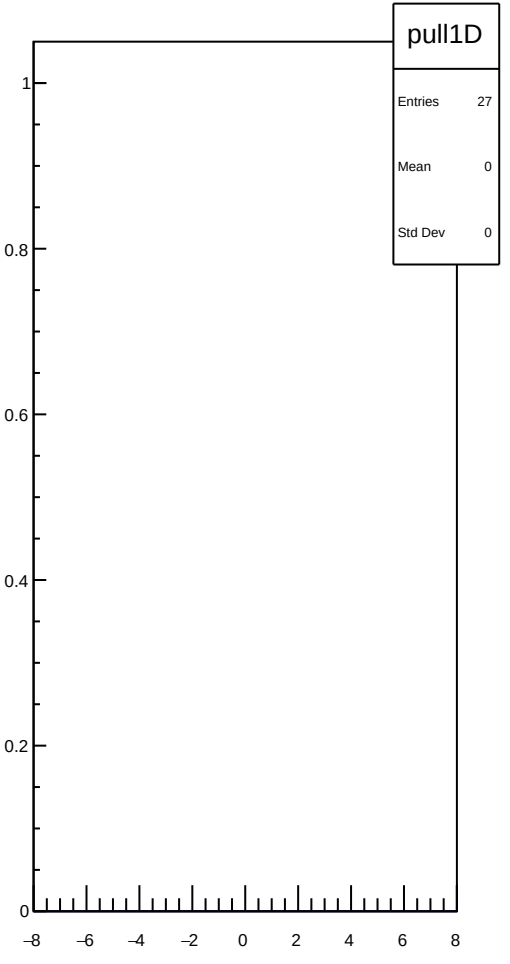

bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 23.3 / 26
p0 −1.138 ± 40.33
800
600
400
200
0
−200
−400
−600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


pull
Entries 27
Mean −103.3
Std Dev 114.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 27
Mean 0.01214
Std Dev 0.929
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 9498 / 26
p0 20.42 ± 0.02852
28
26
24
22
20
18
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


bcm_dg_ds_ds3_avg_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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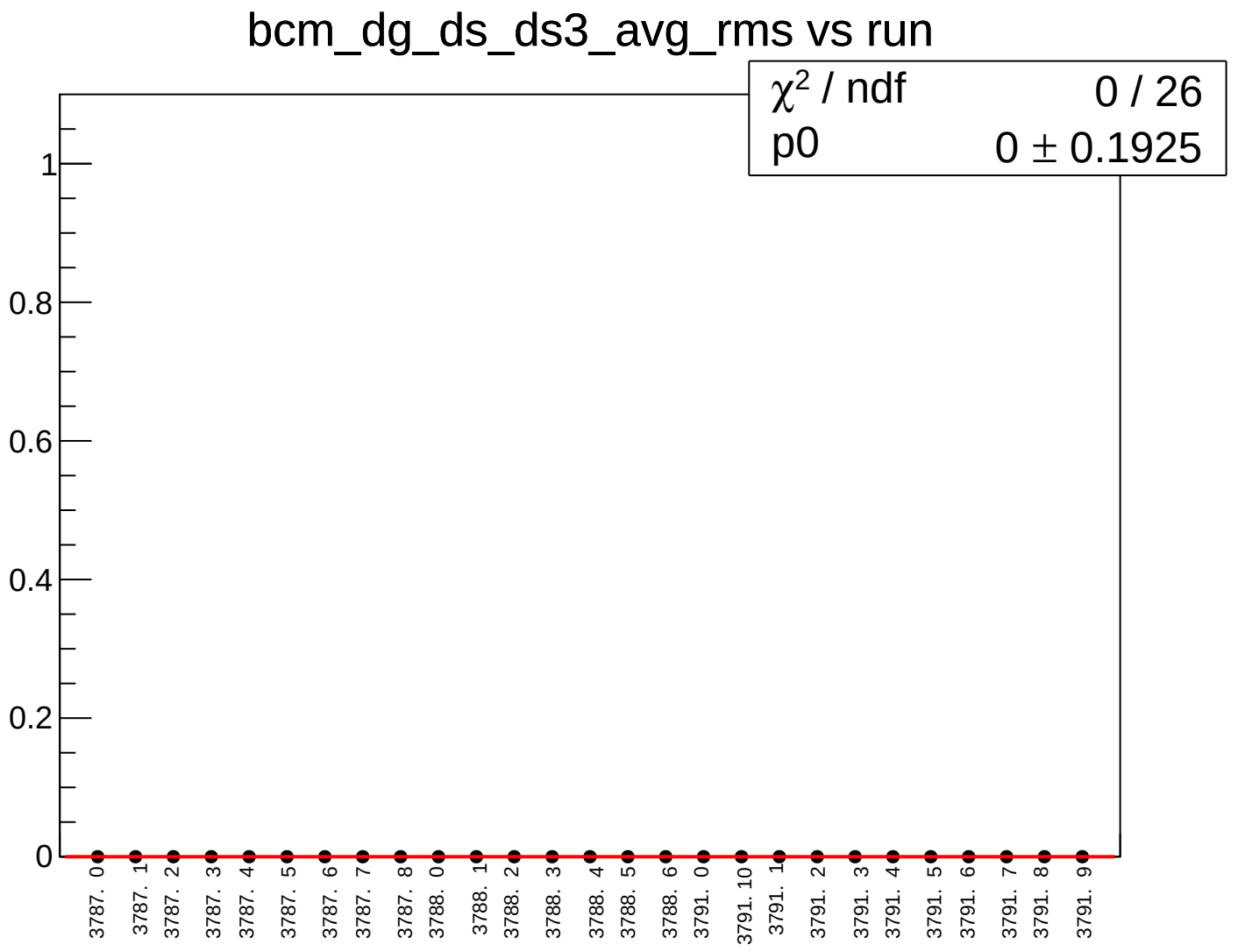
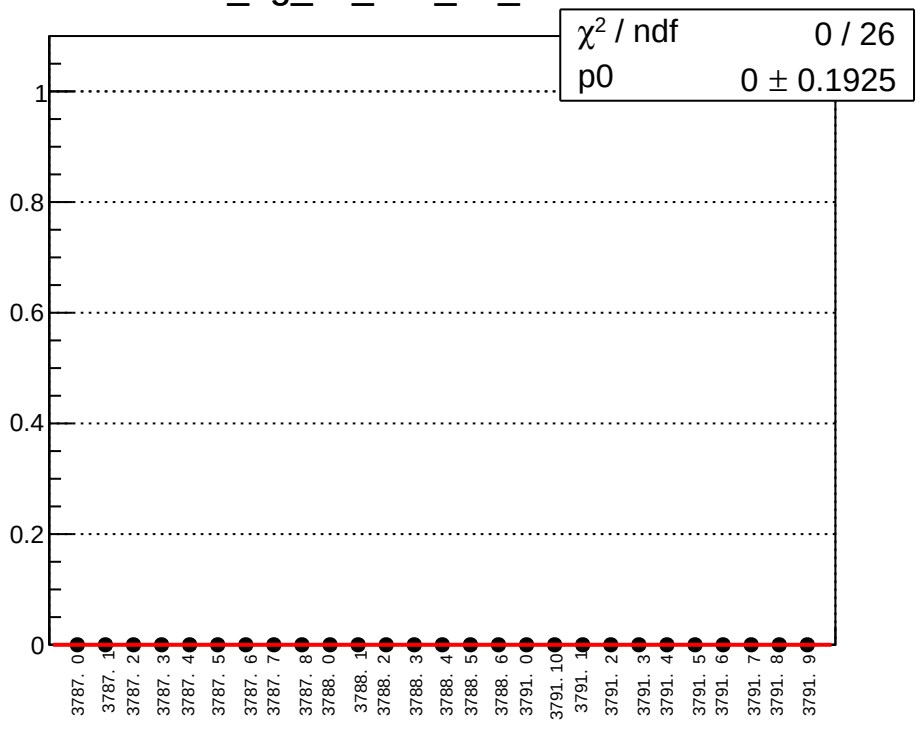
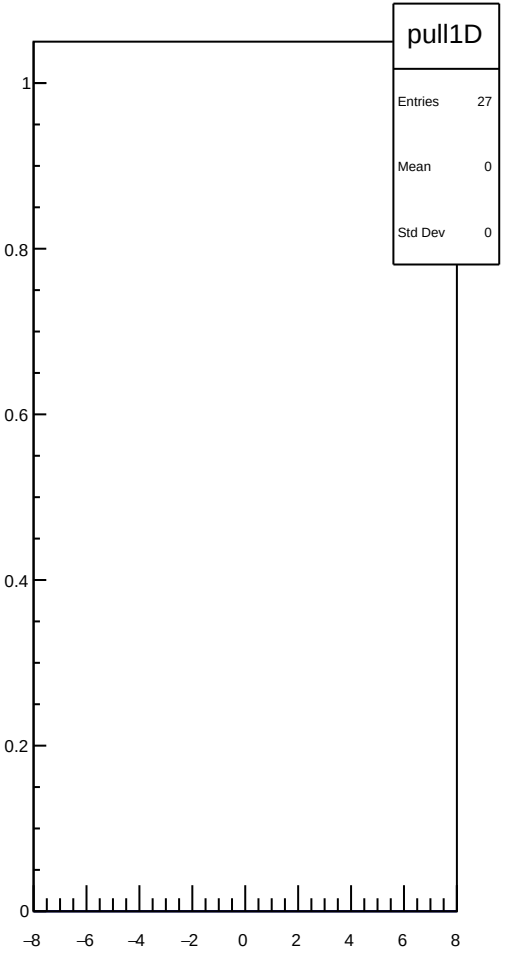
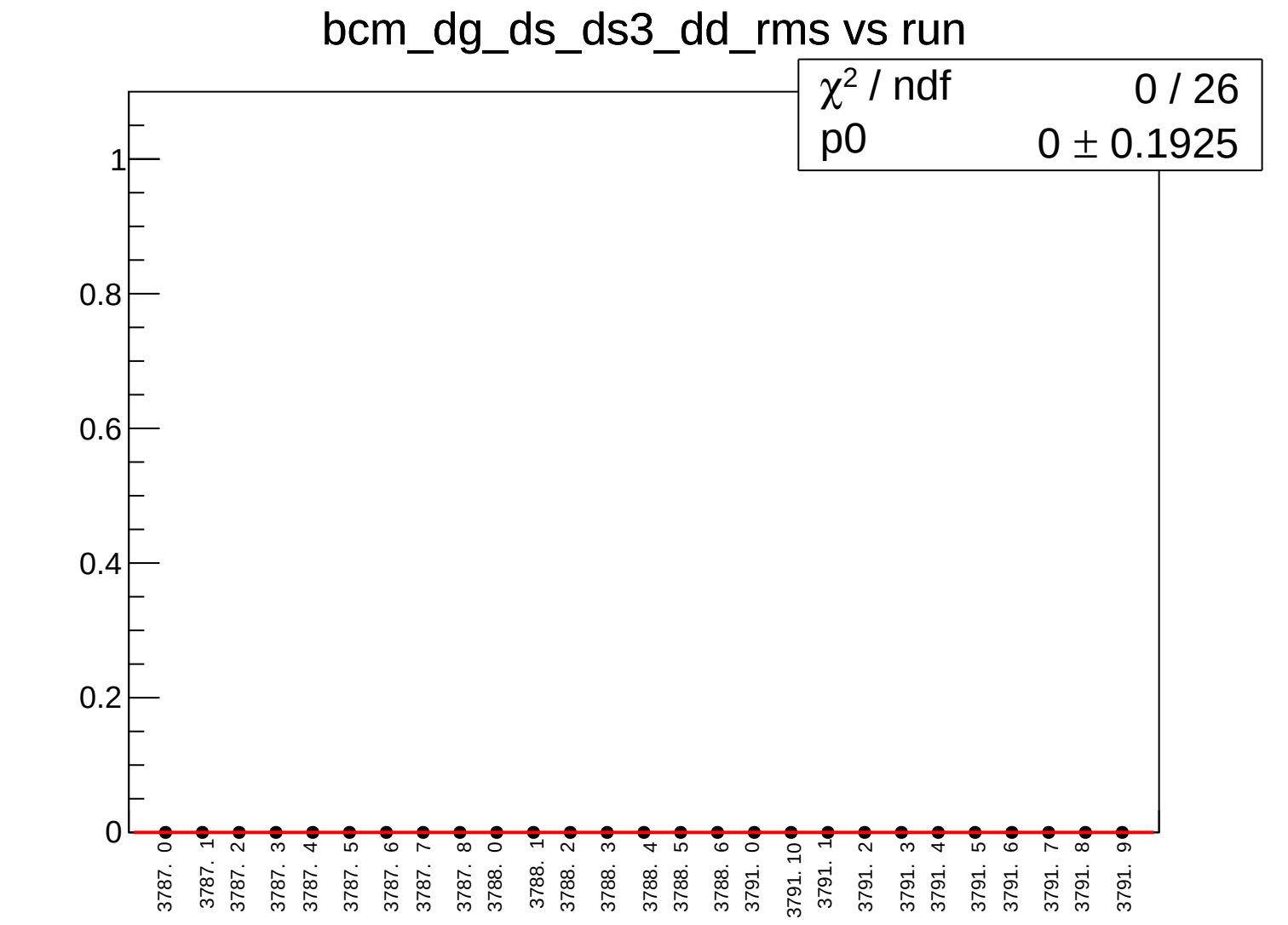
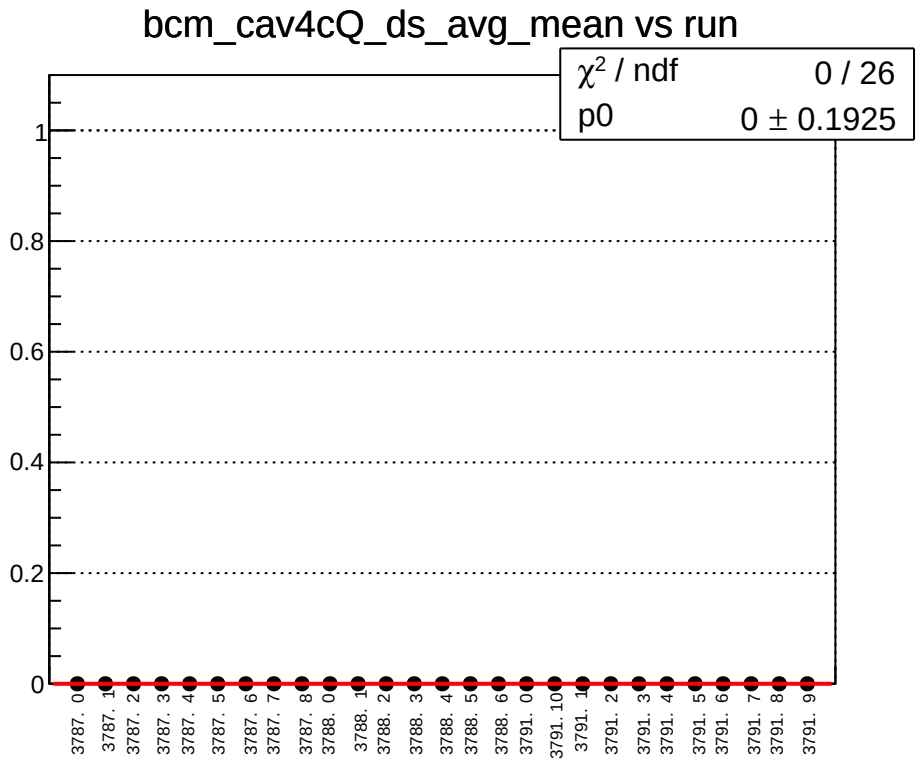
2
4
6
8

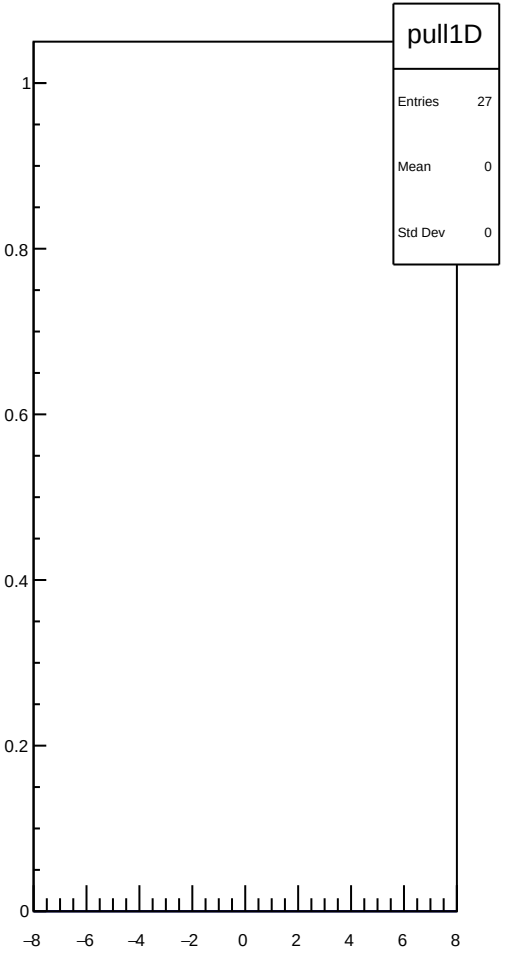

bcm_dg_ds_ds3_avg_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

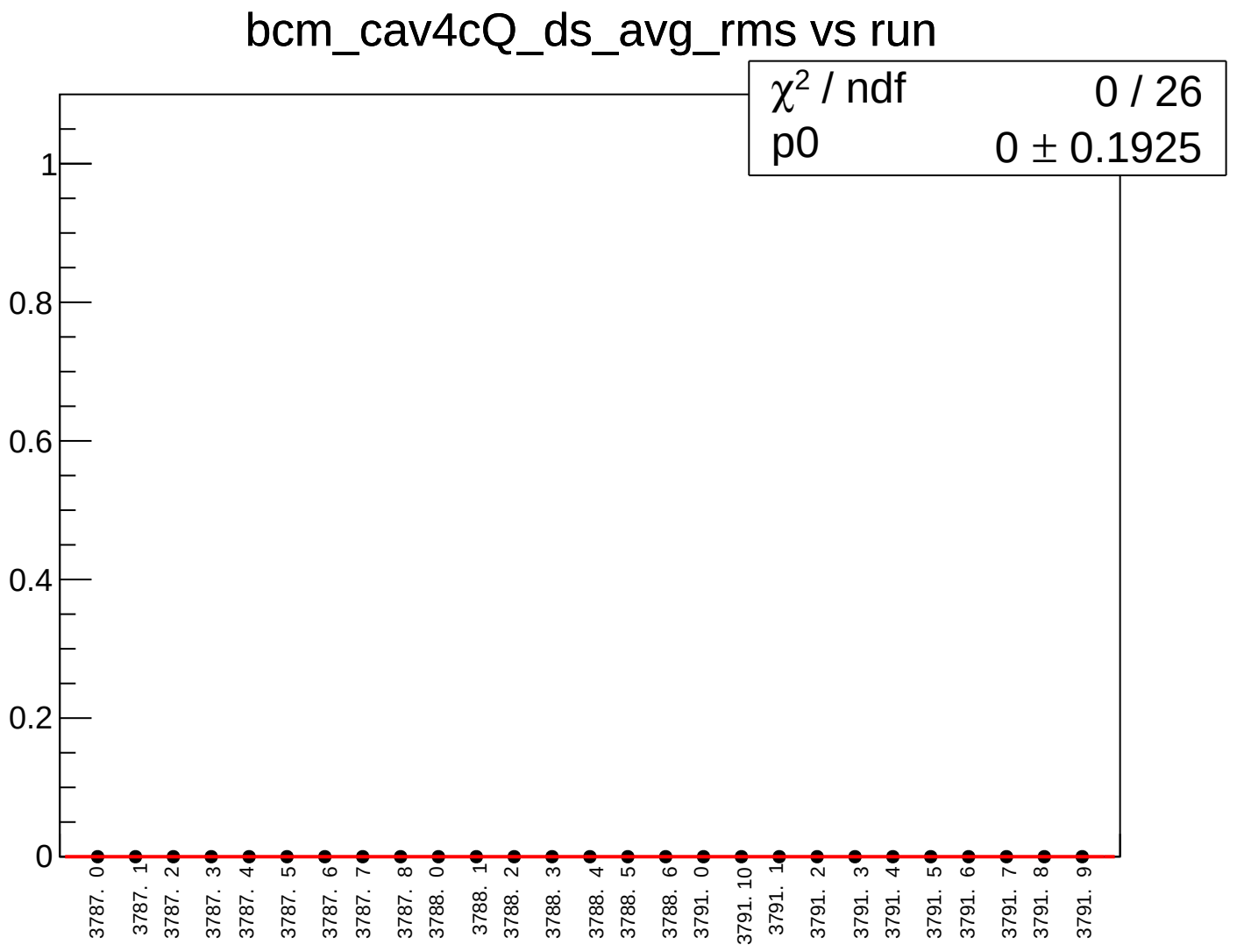

bcm_dg_ds_ds3_dd_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

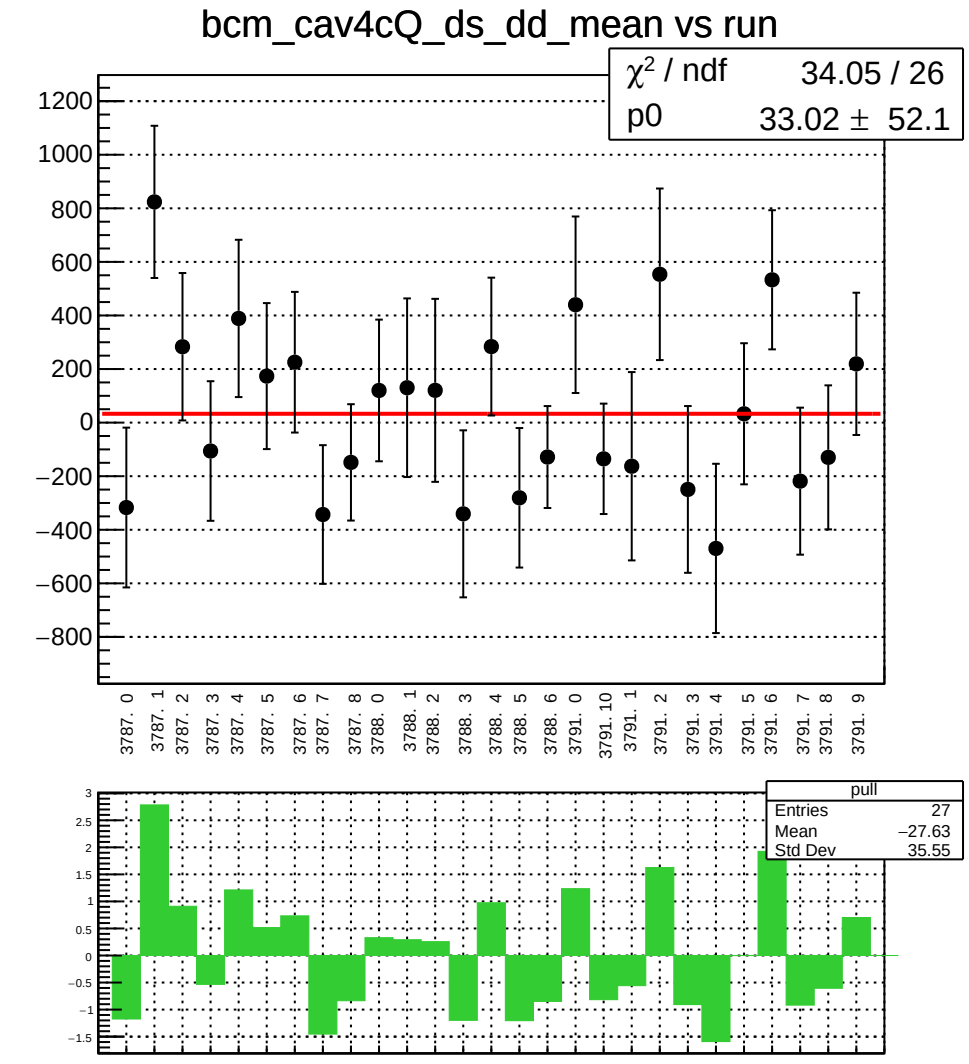

pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

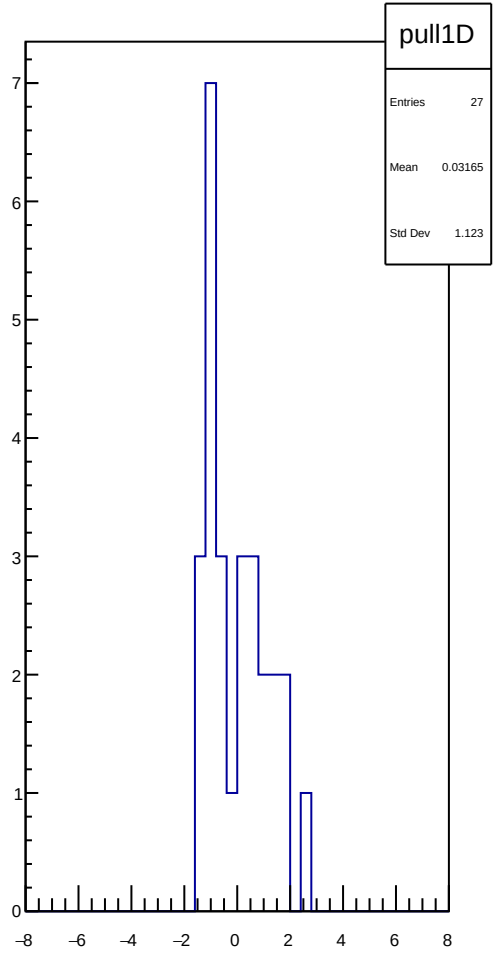

bcm_dg_ds_ds3_dd_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

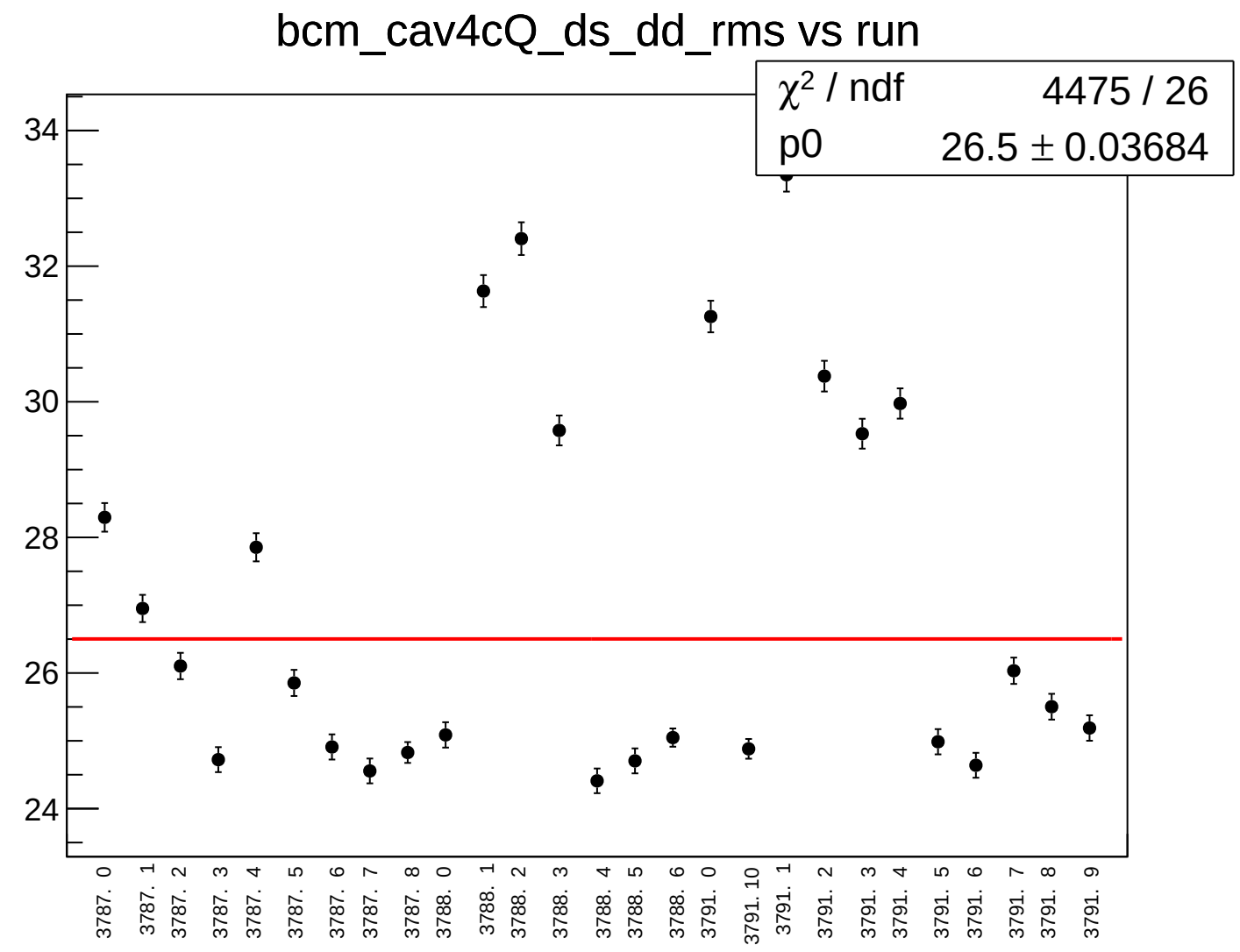

bcm_cav4cQ_ds_avg_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 10
3787. 20
3787. 30
3787. 40
3787. 50
3787. 60
3787. 70
3787. 80
3788. 00
3788. 10
3788. 20
3788. 30
3788. 40
3788. 50
3788. 60
3791. 00
3791. 10
3791. 20
3791. 30
3791. 40
3791. 50
3791. 60
3791. 70
3791. 80
3791. 90

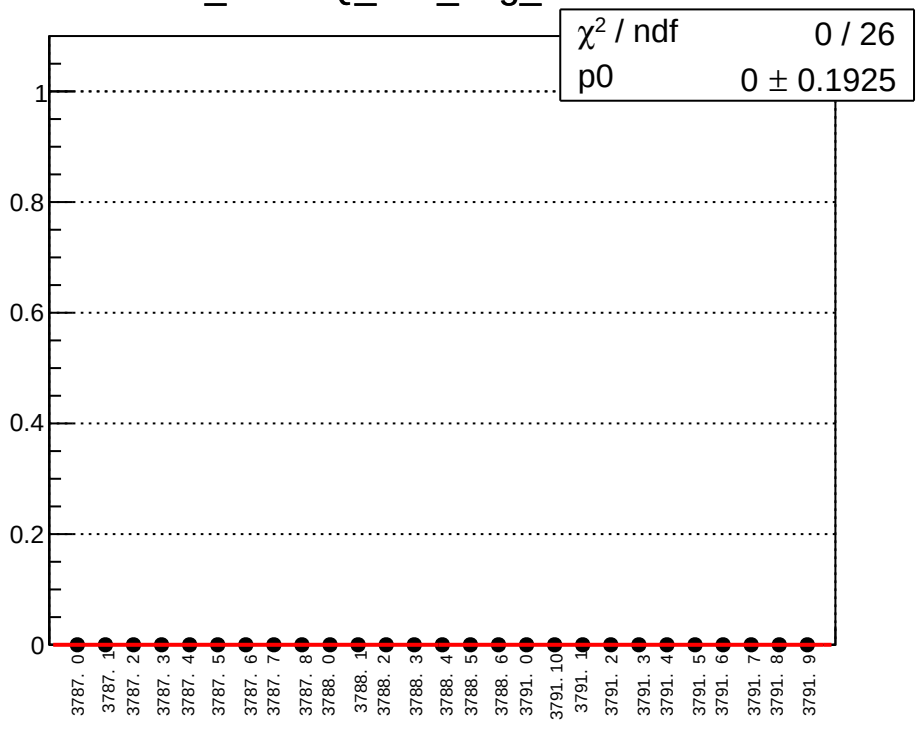

pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

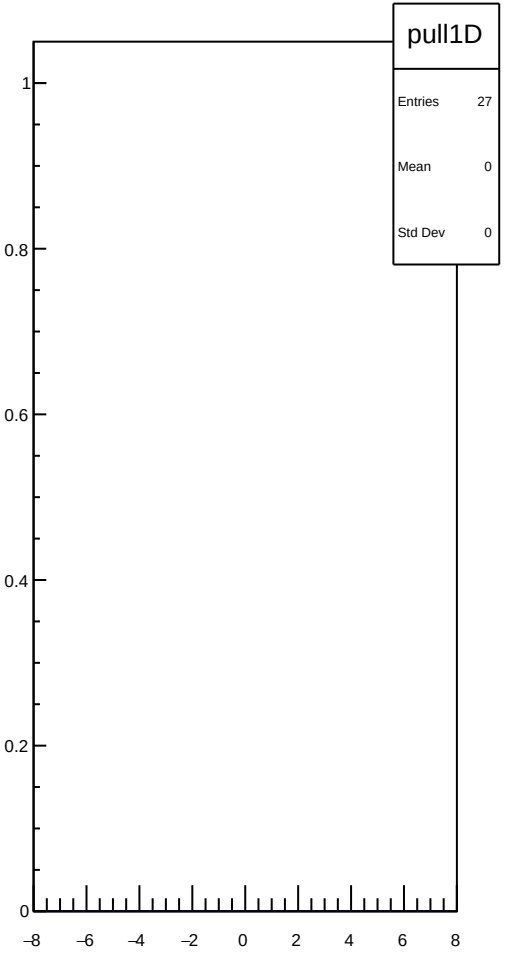

bcm_cav4cQ_ds_avg_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


bcm_cav4cQ_ds_dd_mean vs run
χ² / ndf 34.05 / 26
p0 33.02 ± 52.1
1200
1000
800
600
400
200
0
−200
−400
−600
−800
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −27.63
Std Dev 35.55
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 27
Mean 0.03165
Std Dev 1.123
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


bcm_cav4cQ_ds_dd_rms vs run
χ² / ndf 4475 / 26
p0 26.5 ± 0.03684
34
32
30
28
26
24
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


bcm_cav4cQ_ds3_avg_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 10
3787. 20
3787. 30
3787. 40
3787. 50
3787. 60
3787. 70
3787. 80
3788. 00
3788. 10
3788. 20
3788. 30
3788. 40
3788. 50
3788. 60
3791. 00
3791. 10
3791. 20
3791. 30
3791. 40
3791. 50
3791. 60
3791. 70
3791. 80
3791. 90


pull1D
Entries 27
Mean 0
Std Dev 0
1
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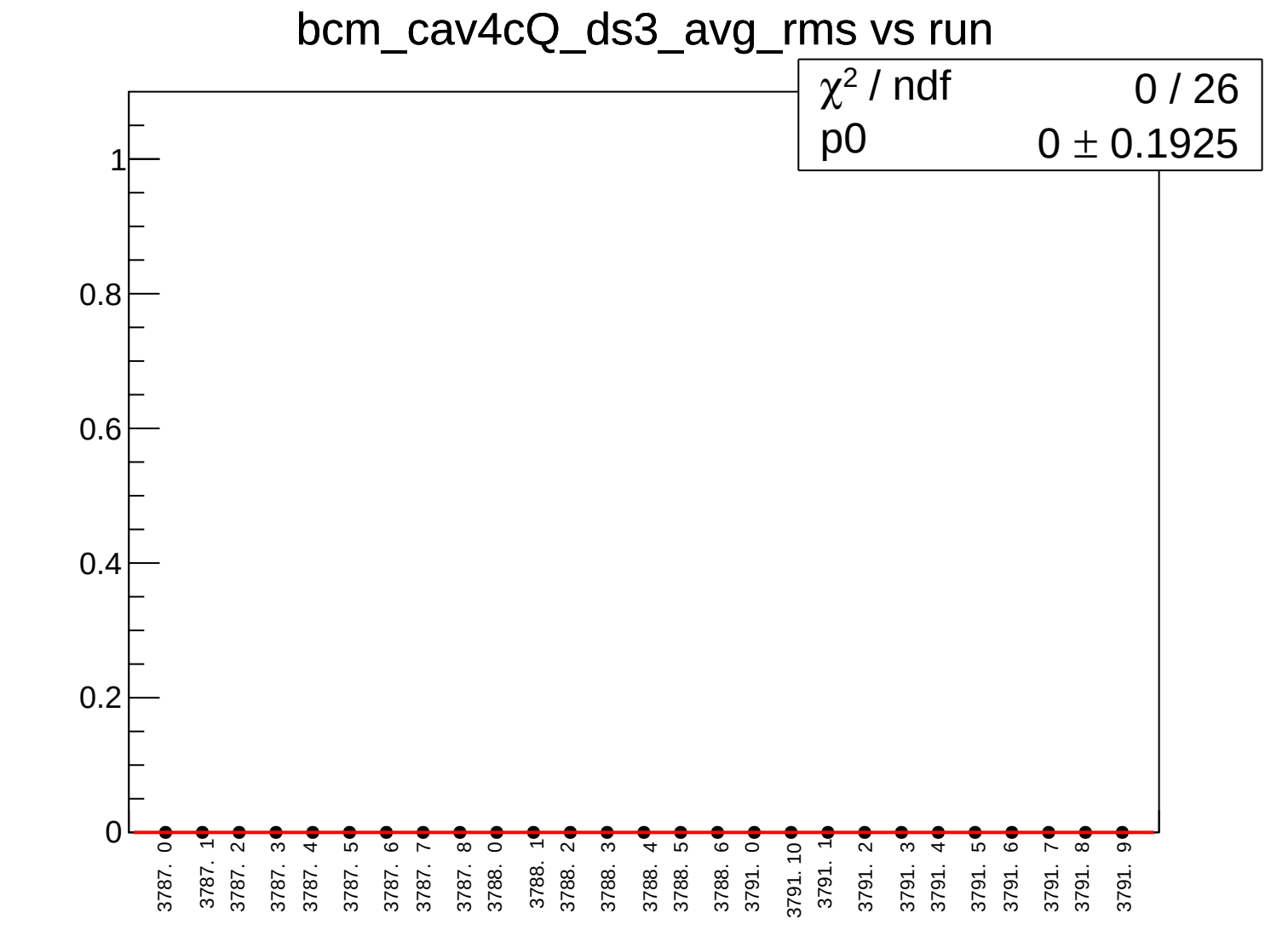
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


bcm_cav4cQ_ds3_avg_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
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3791. 2
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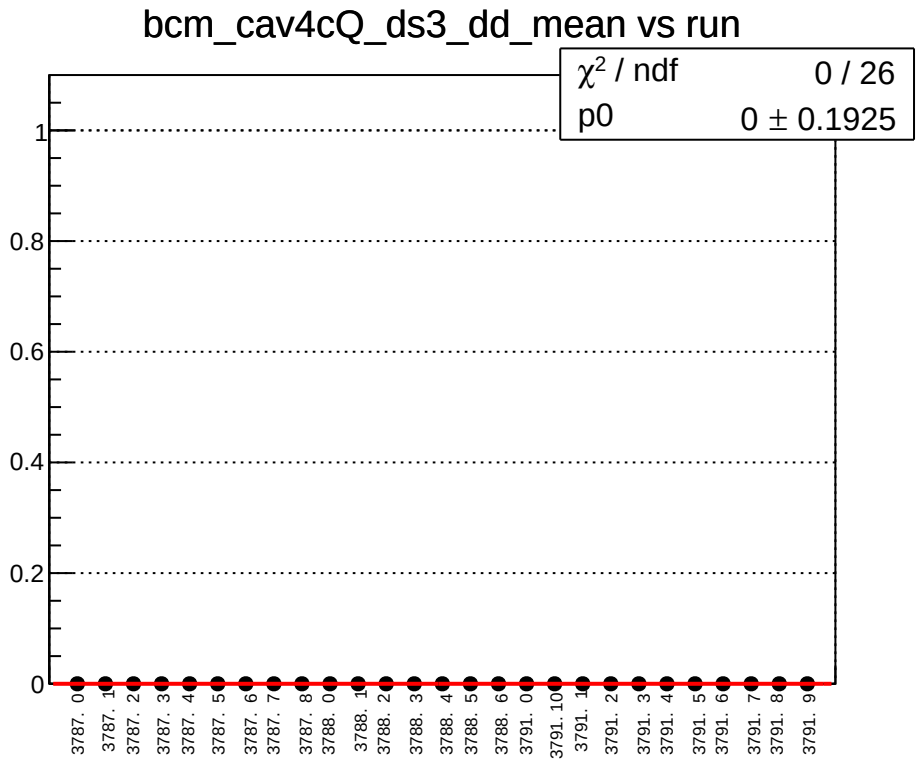
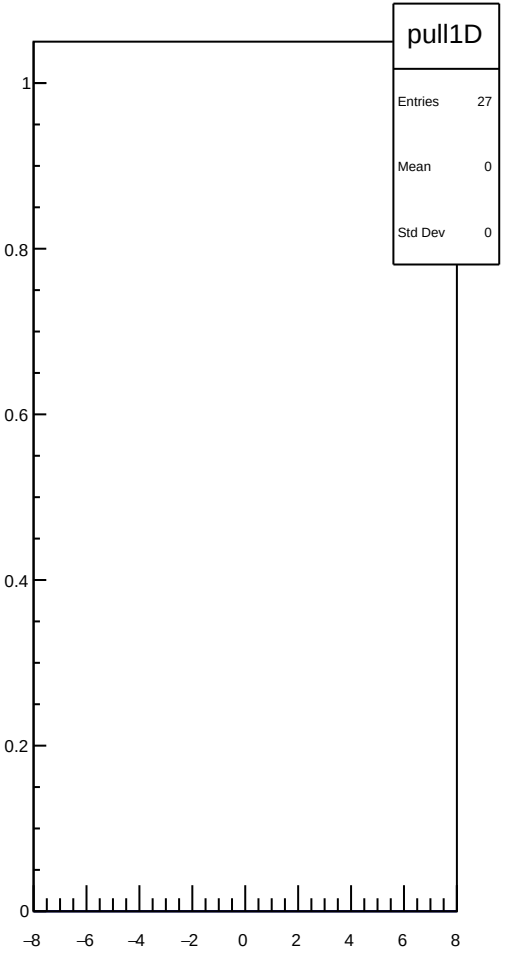
3791. 9


bcm_cav4cQ_ds3_dd_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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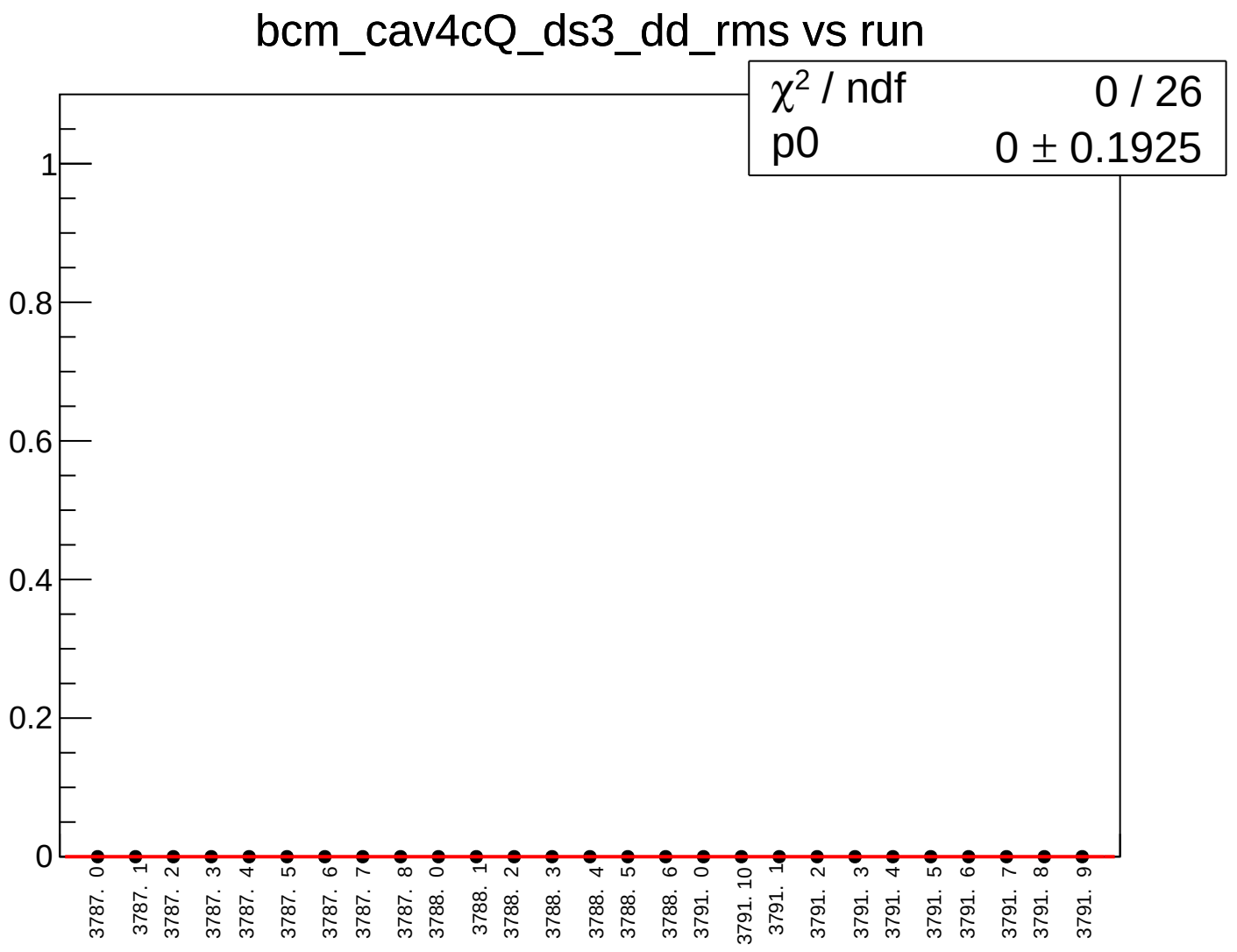
2
4
6
8


bcm_cav4cQ_ds3_dd_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
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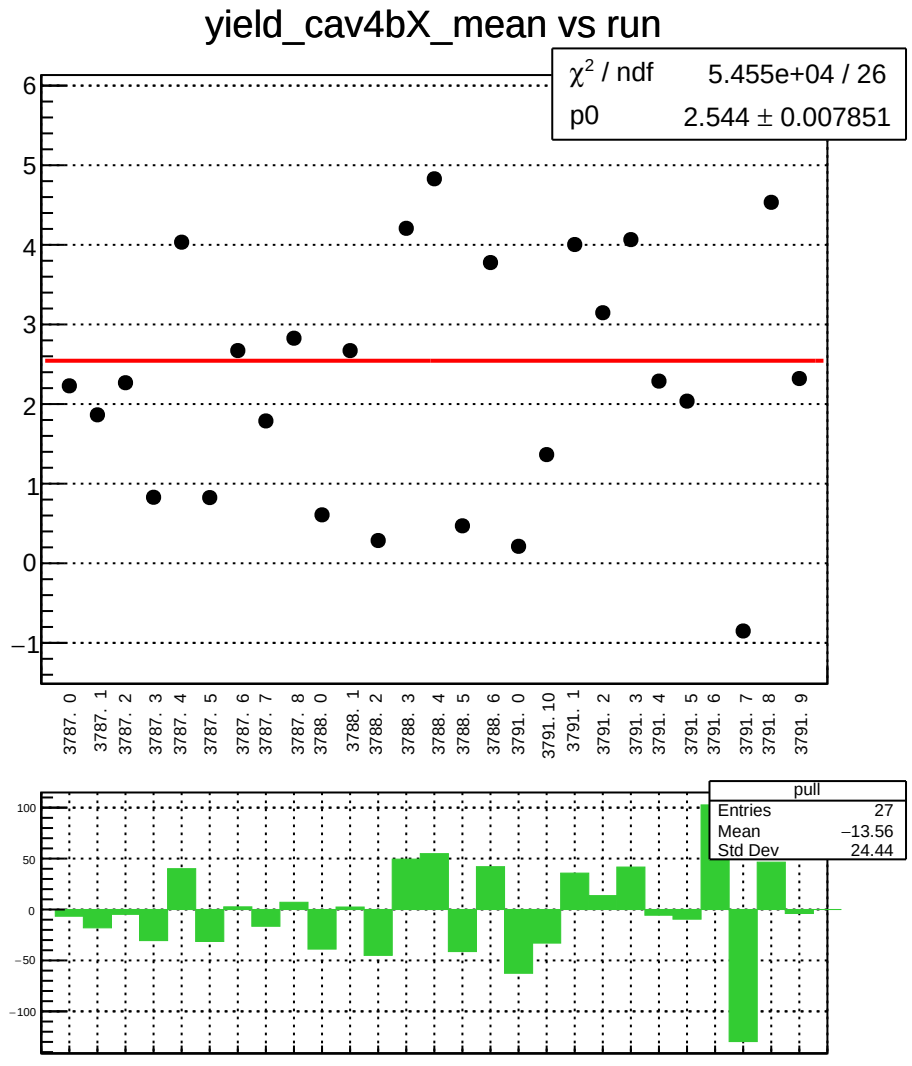
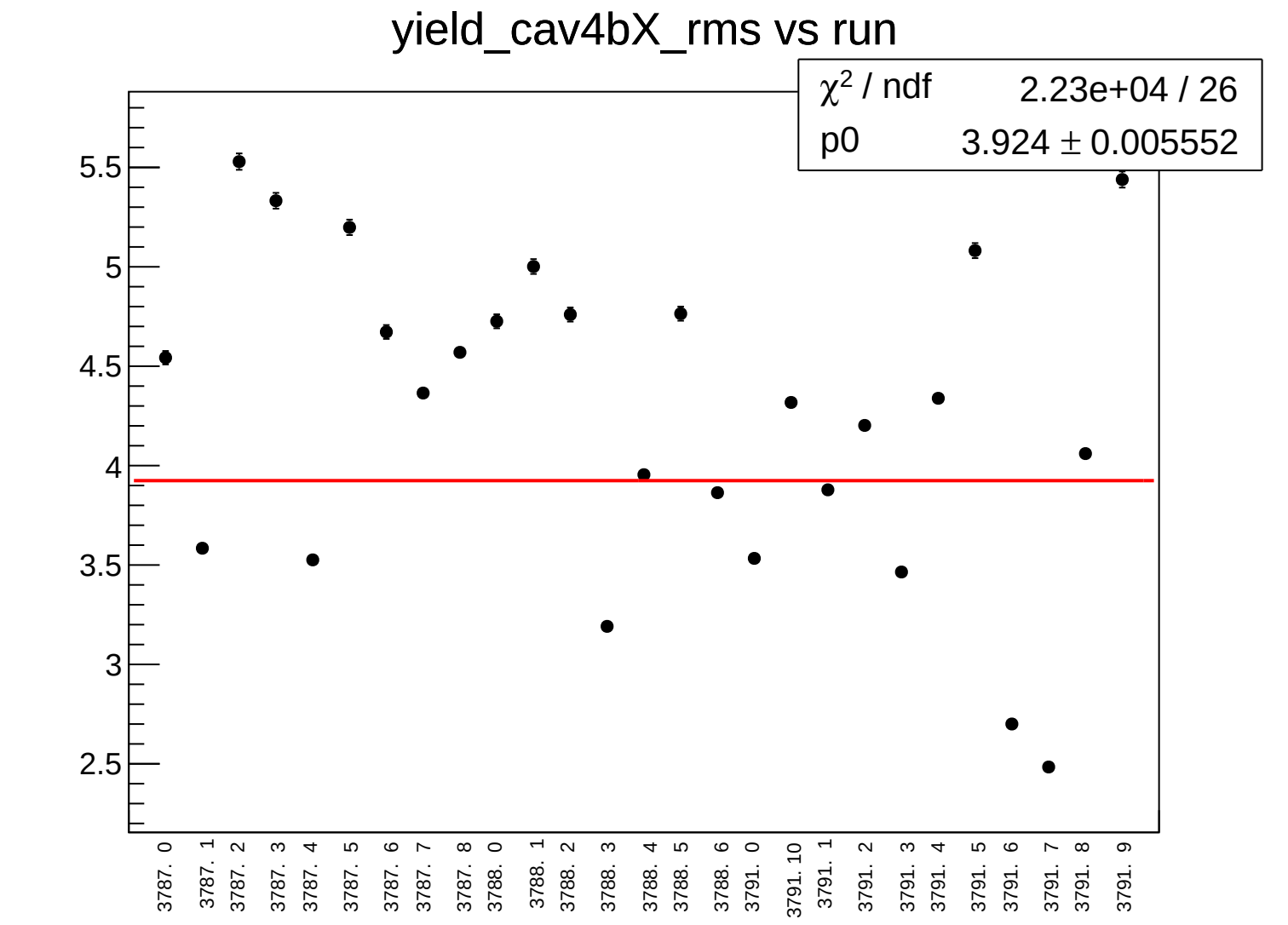
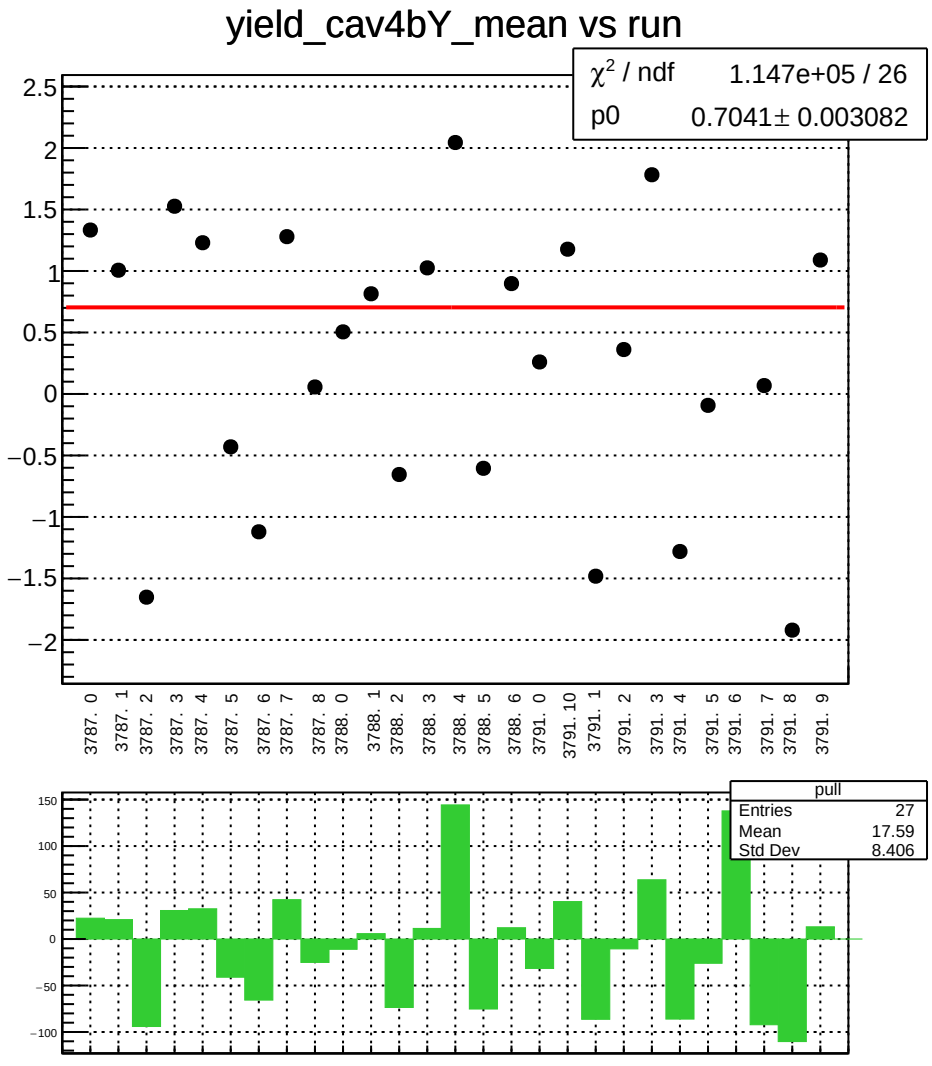
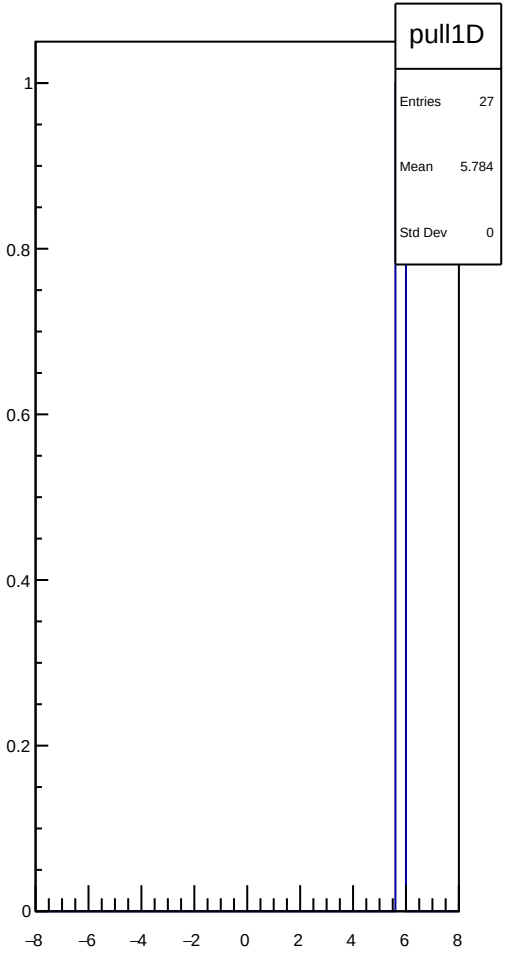
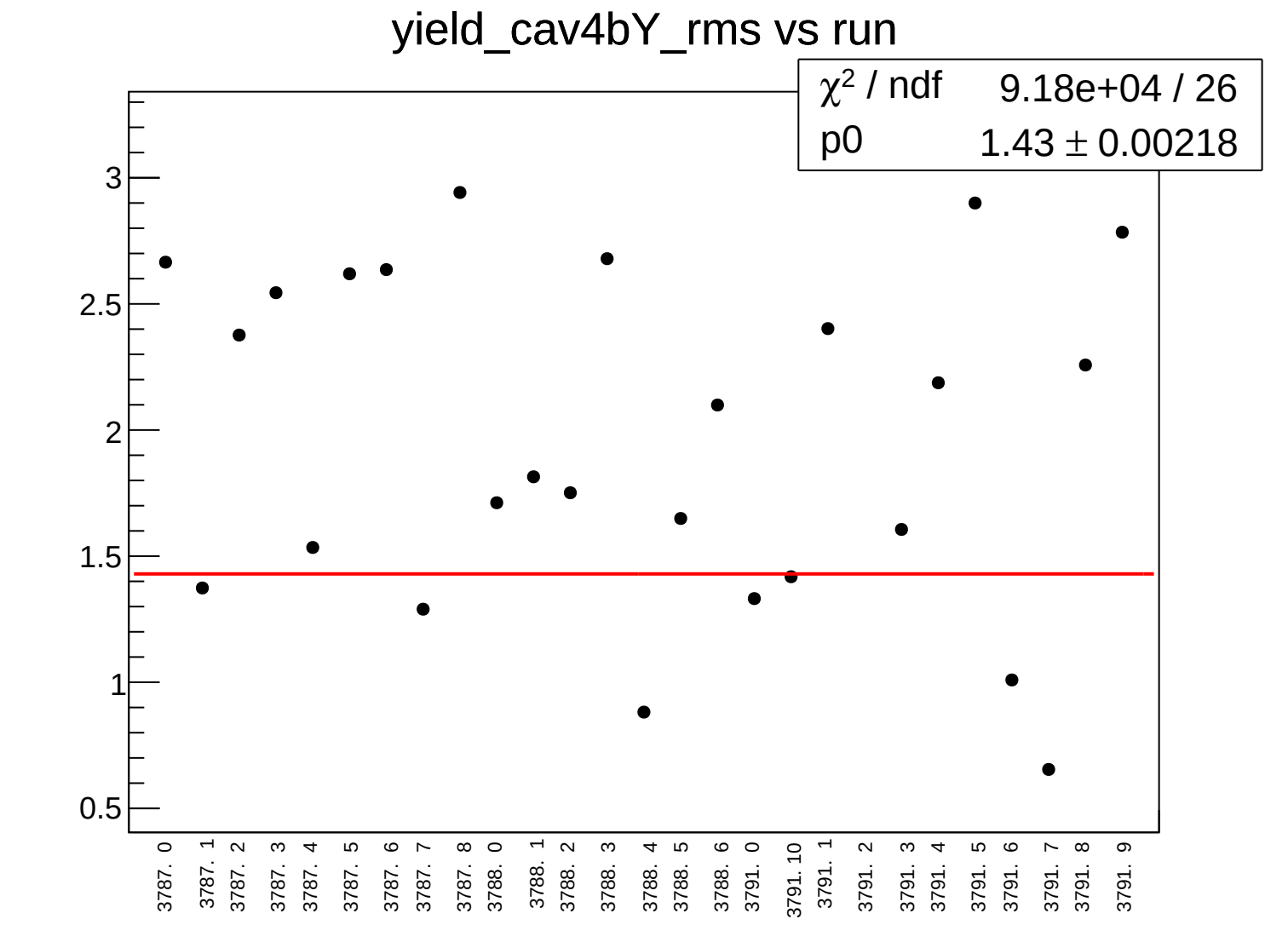
3791. 7
3791. 8
3791. 9

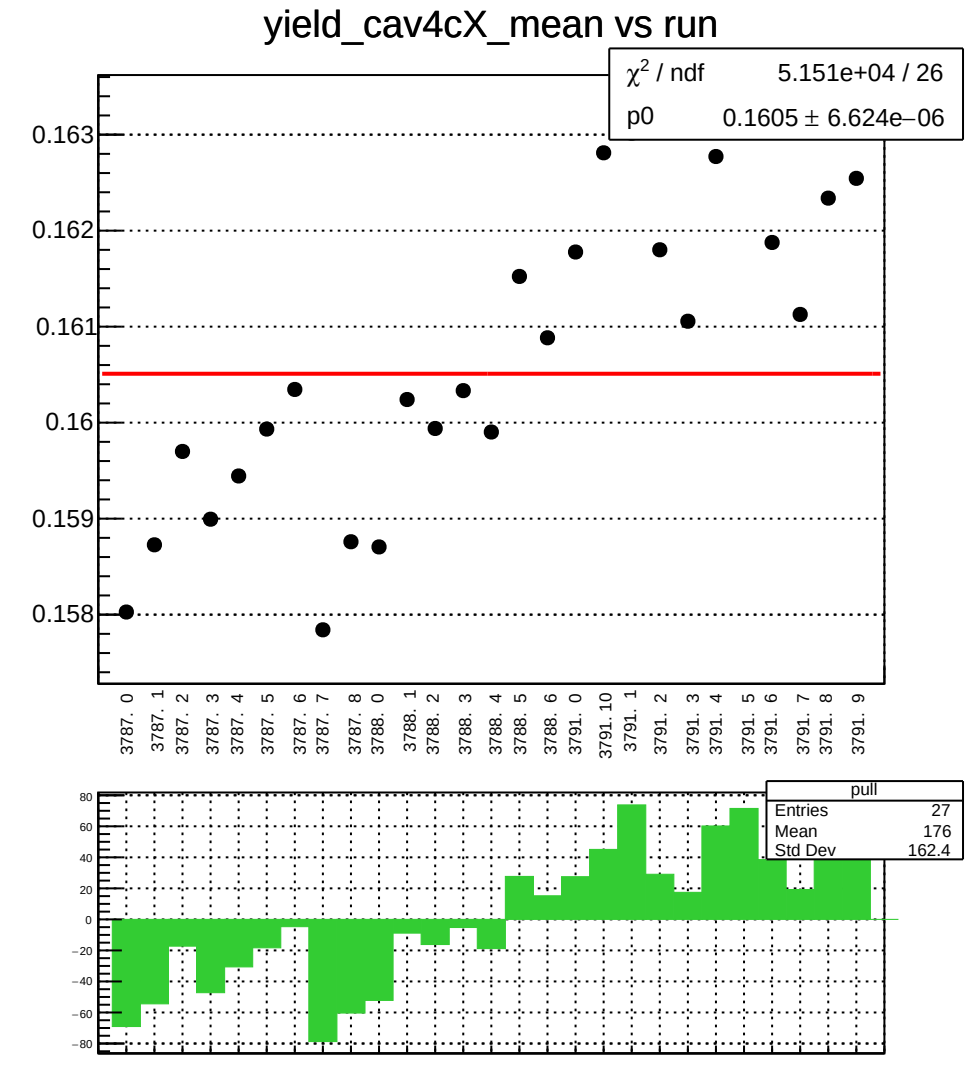

yield_cav4bX_mean vs run
χ² / ndf 5.455e+04 / 26
p0 2.544 ± 0.007851
6
5
4
3
2
1
0
−1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −13.56
Std Dev 24.44
100
50
0
−50
−100
pull1D
Entries 27
Mean −1.246
Std Dev 4.842
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

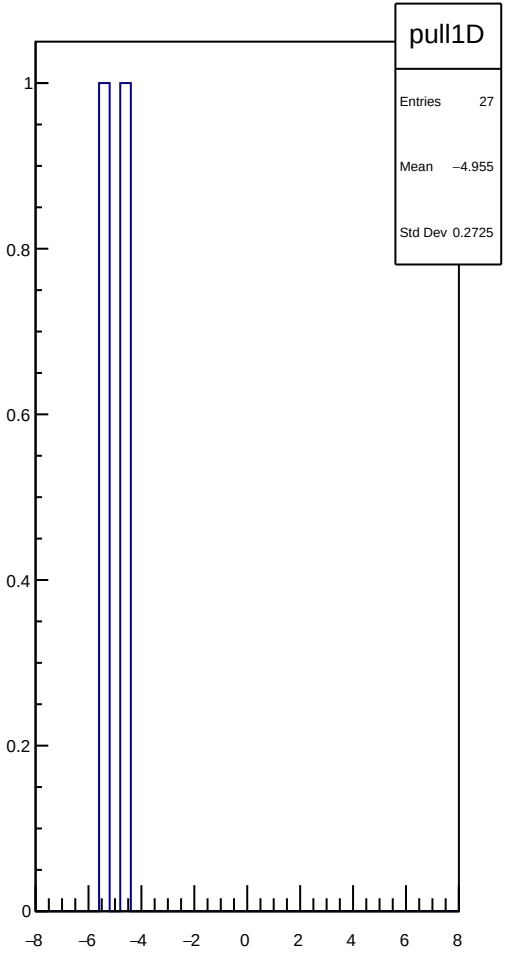

yield_cav4bX_rms vs run
χ^2 / ndf 2.23e+04 / 26
p0 3.924 ± 0.005552
5.5
5
4.5
4
3.5
3
2.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

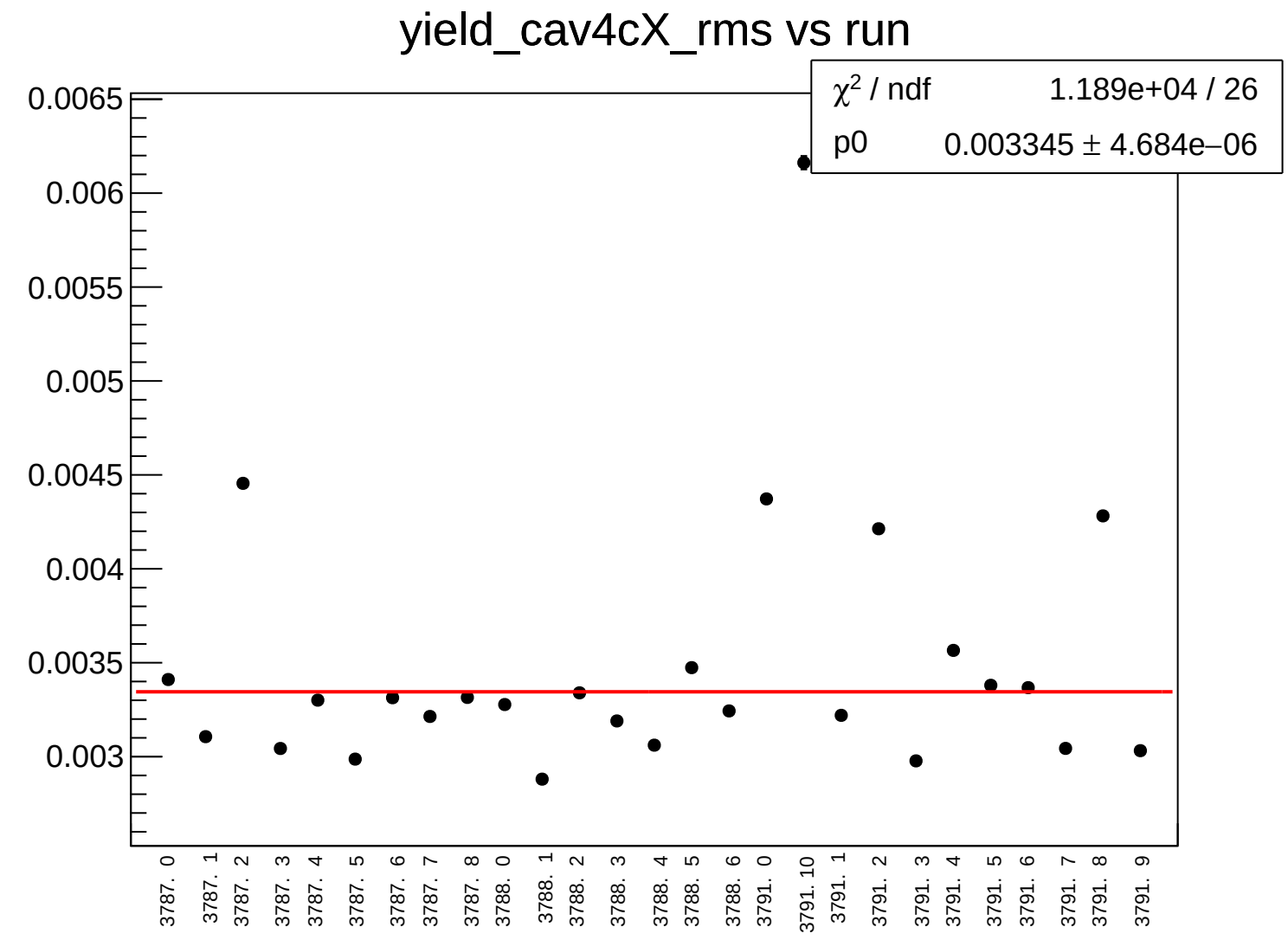

yield_cav4bY_mean vs run
χ² / ndf 1.147e+05 / 26
p0 0.7041± 0.003082
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 17.59
Std Dev 8.406
150
100
50
0
−50
−100

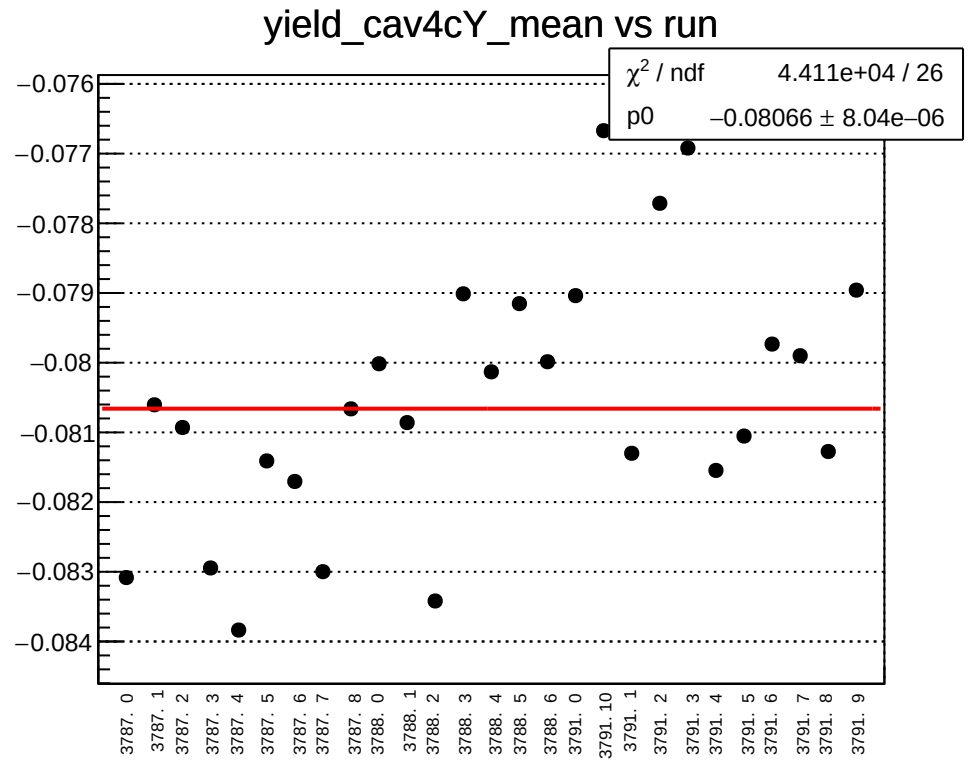

pull1D
Entries 27
Mean 5.784
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

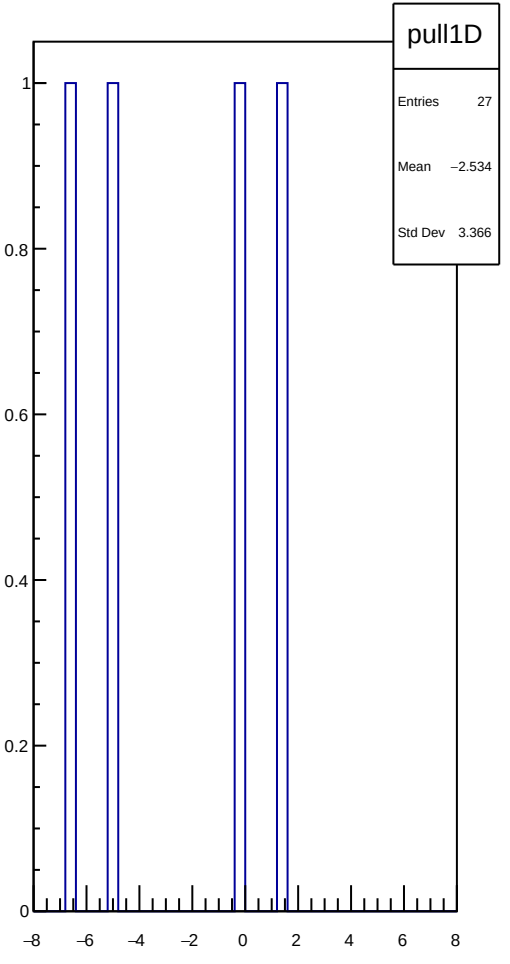

yield_cav4bY_rms vs run
χ² / ndf 9.18e+04 / 26
p0 1.43 ± 0.00218
3
2.5
2
1.5
1
0.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

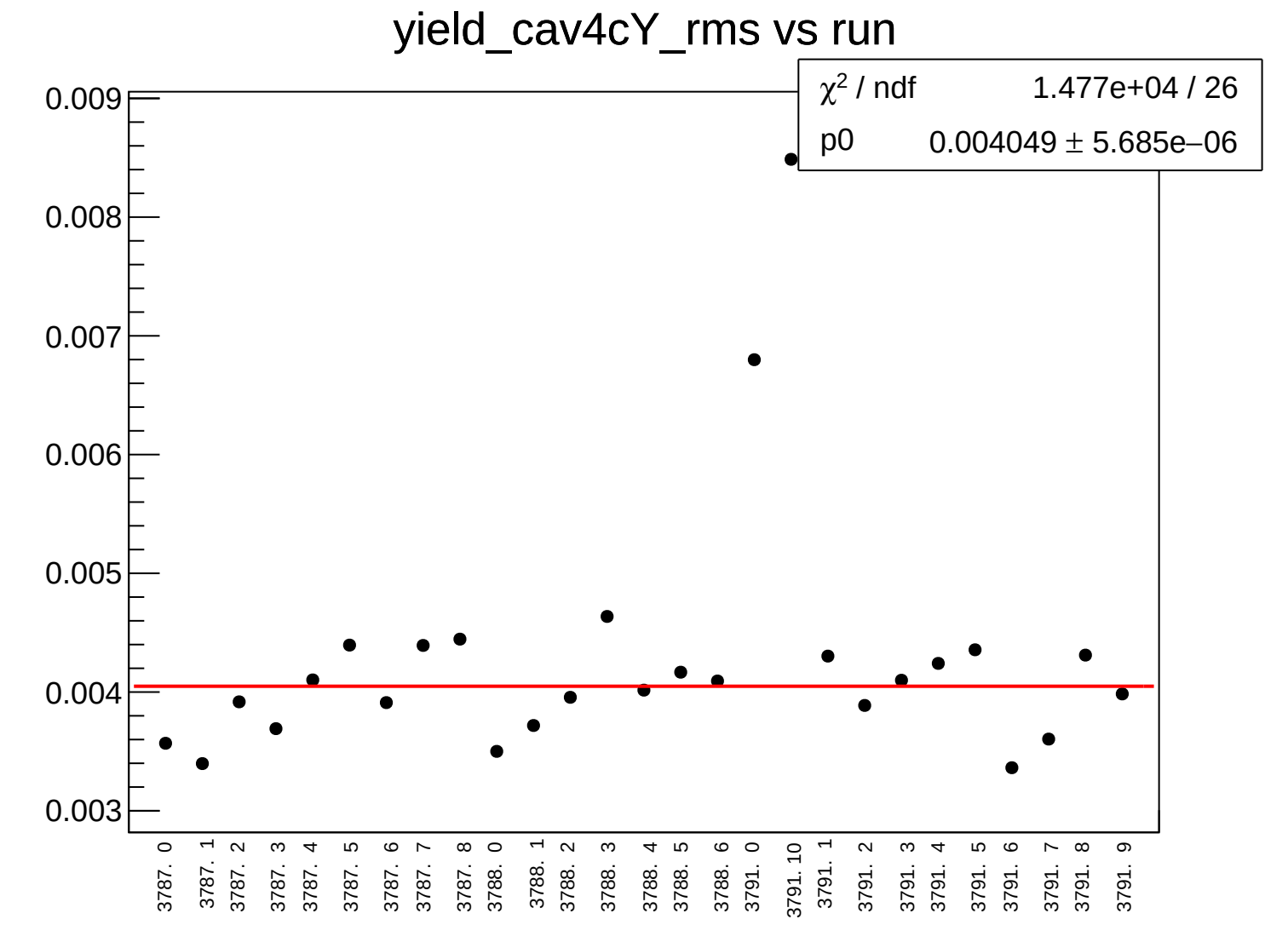

yield_cav4cX_mean vs run
χ² / ndf 5.151e+04 / 26
p0 0.1605 ± 6.624e−06
0.163
0.162
0.161
0.16
0.159
0.158
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 176
Std Dev 162.4
80
60
40
20
0
−20
−40
−60
−80

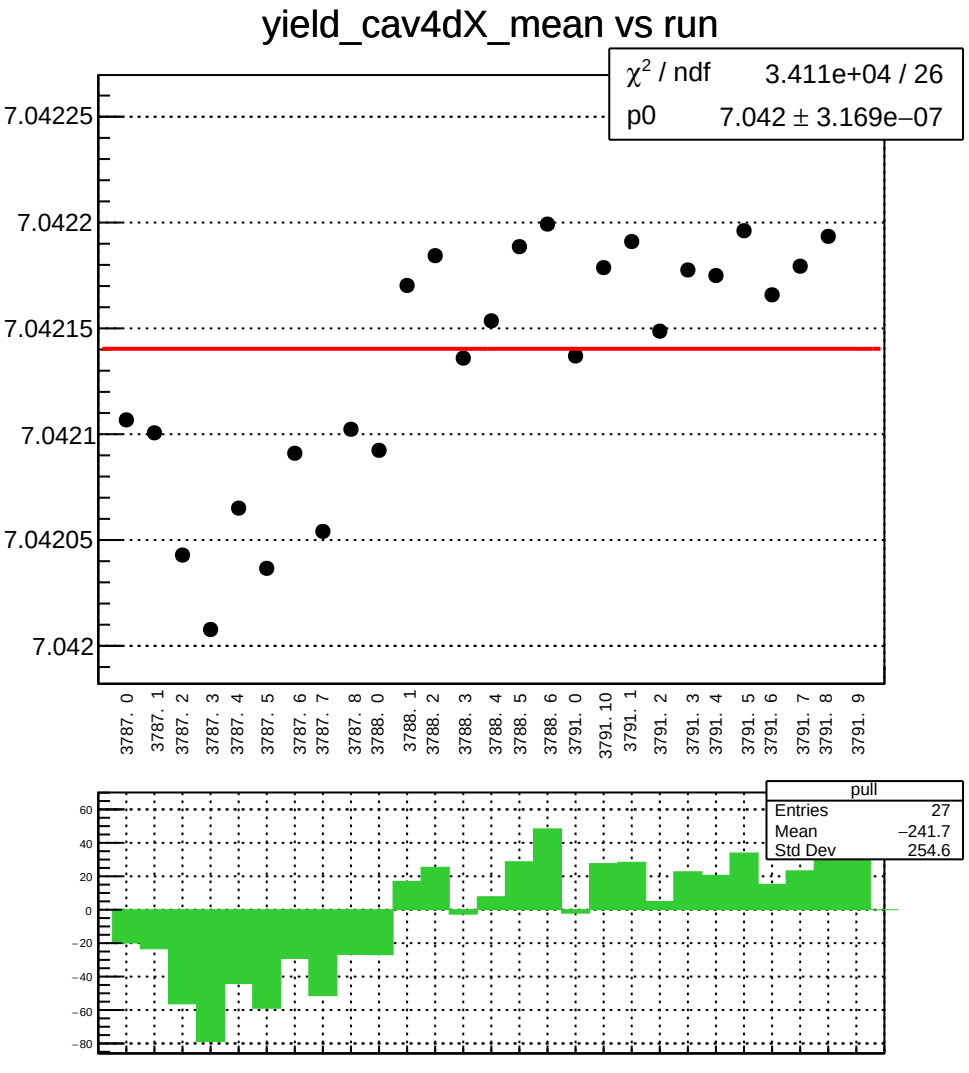

pull1D
Entries 27
Mean −4.955
Std Dev 0.2725
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

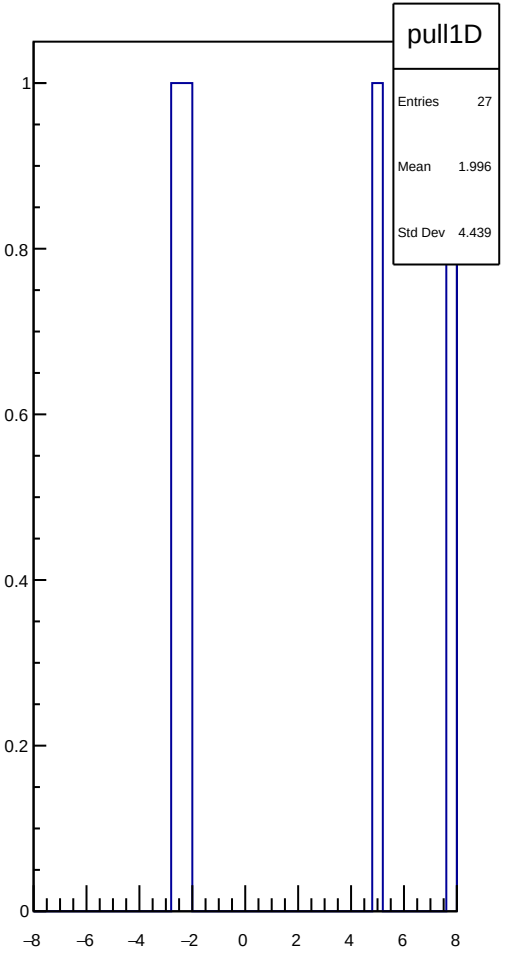

yield_cav4cX_rms vs run
χ² / ndf 1.189e+04 / 26
p0 0.003345 ± 4.684e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

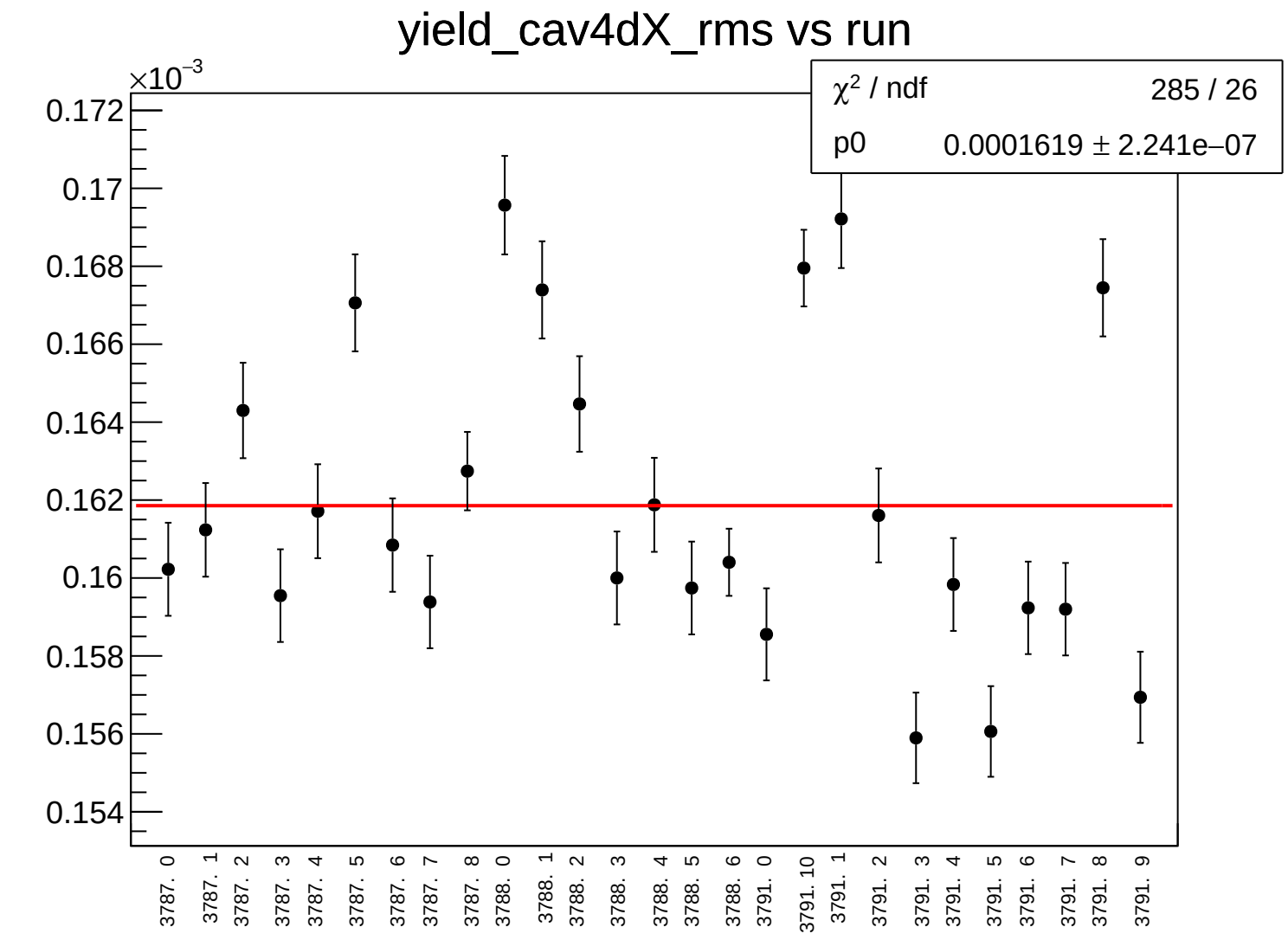

yield_cav4cY_mean vs run
χ² / ndf 4.411e+04 / 26
p0 −0.08066 ± 8.04e−06
−0.076
−0.077
−0.078
−0.079
−0.08
−0.081
−0.082
−0.083
−0.084
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 217.6
Std Dev 205.3
80
60
40
20
0
−20
−40
−60
−80

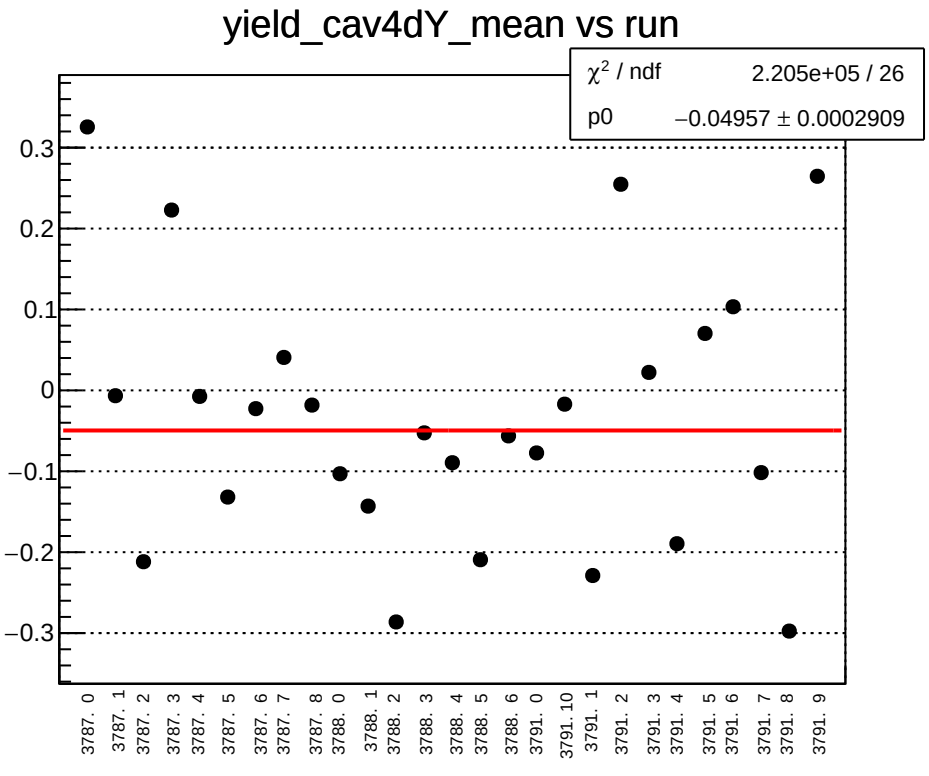

pull1D
Entries 27
Mean −2.534
Std Dev 3.366
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

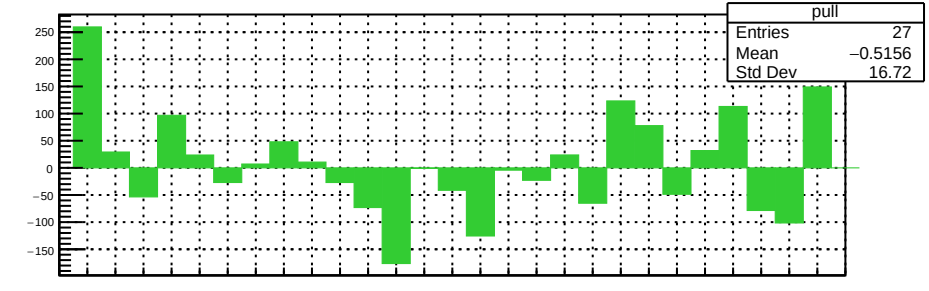

yield_cav4cY_rms vs run
χ² / ndf 1.477e+04 / 26
p0 0.004049 ± 5.685e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

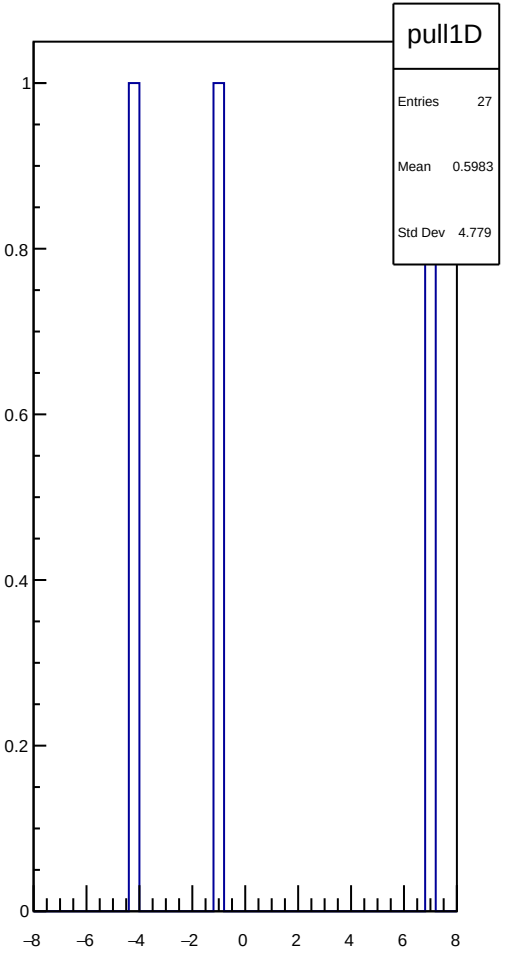

yield_cav4dX_mean vs run
χ² / ndf 3.411e+04 / 26
p0 7.042 ± 3.169e−07
7.04225
7.0422
7.04215
7.0421
7.04205
7.042
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −241.7
Std Dev 254.6
60
40
20
0
−20
−40
−60
−80

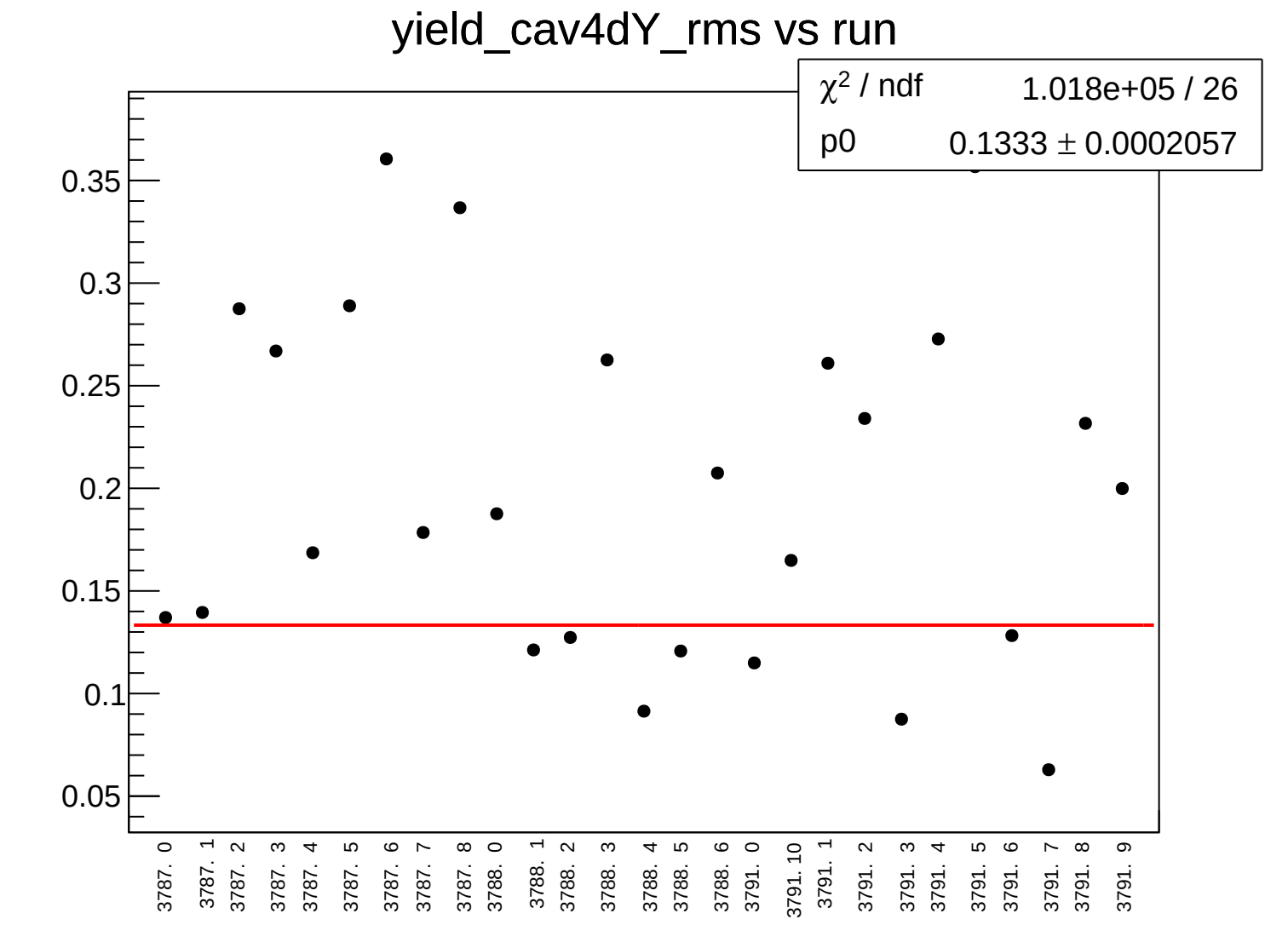

pull1D
Entries 27
Mean 1.996
Std Dev 4.439
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

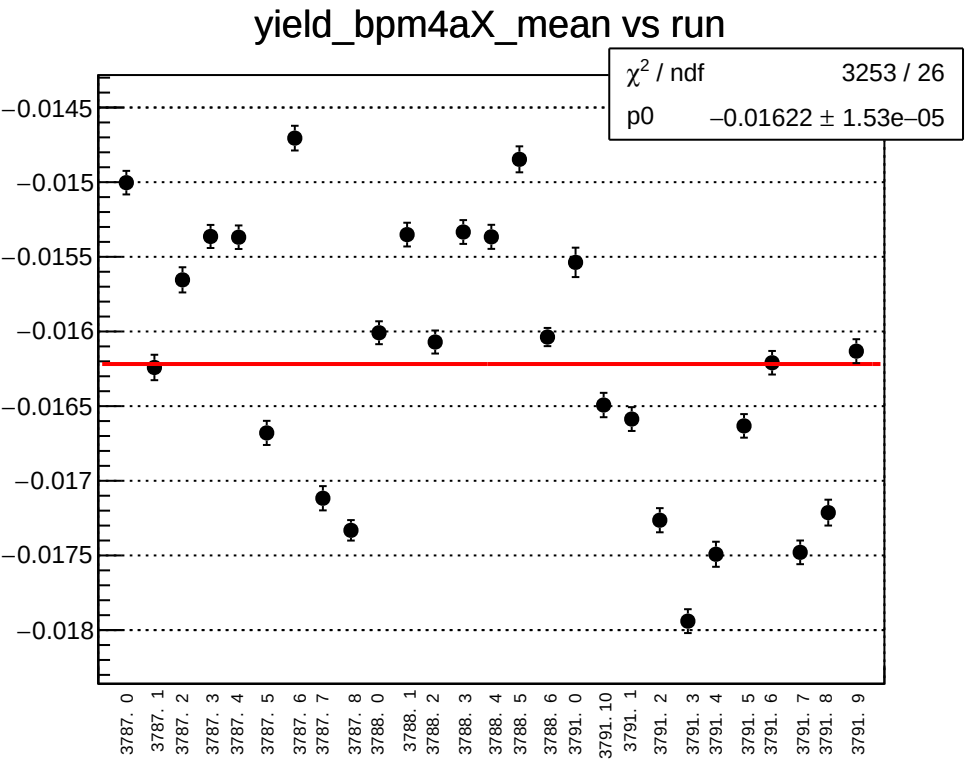

yield_cav4dX_rms vs run
×10⁻³
χ² / ndf 285 / 26
p0 0.0001619 ± 2.241e−07
0.172
0.17
0.168
0.166
0.164
0.162
0.16
0.158
0.156
0.154
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

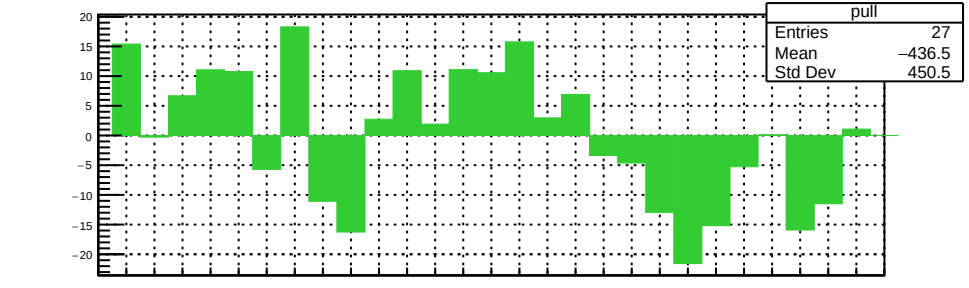

yield_cav4dY_mean vs run
χ² / ndf 2.205e+05 / 26
p0 −0.04957 ± 0.0002909
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

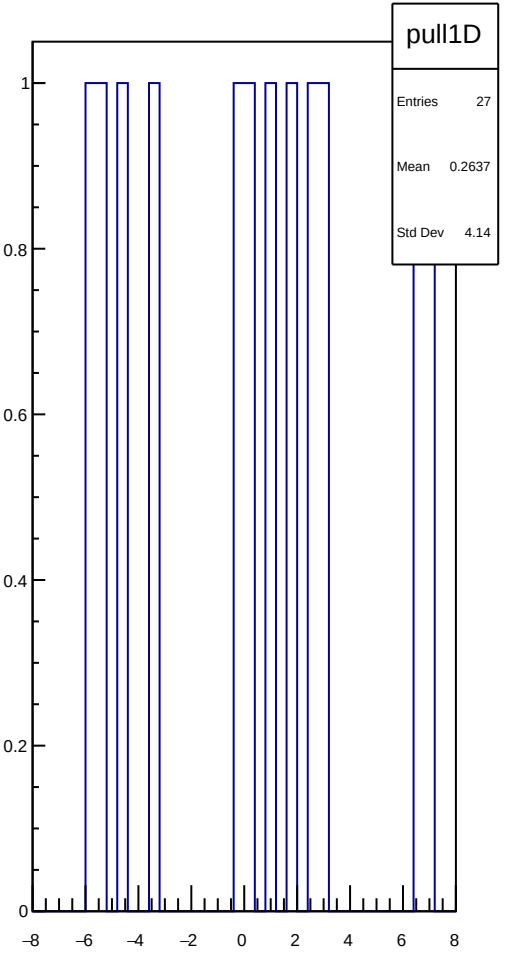

pull
Entries 27
Mean −0.5156
Std Dev 16.72
250
200
150
100
50
0
−50
−100
−150

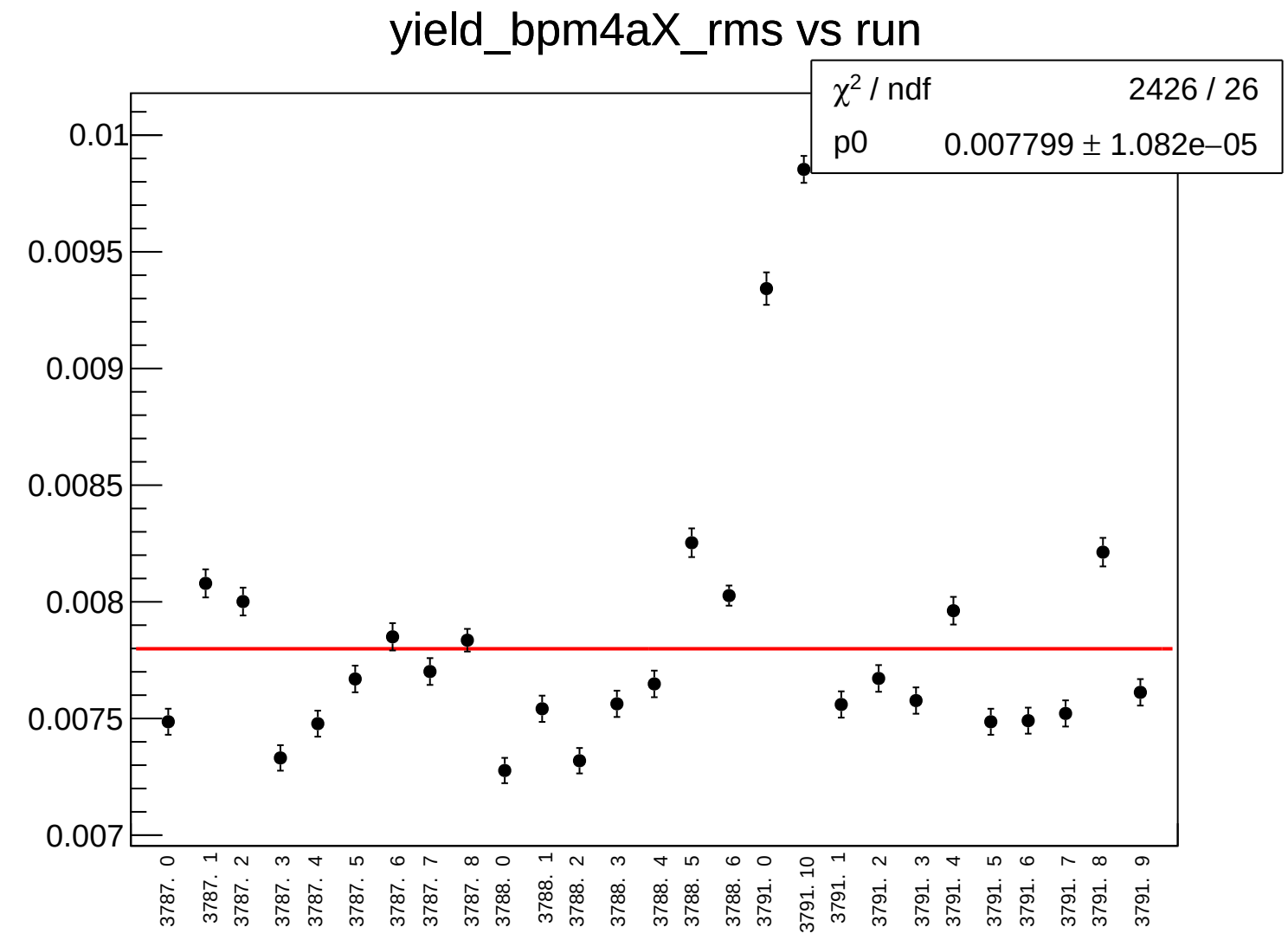

pull1D
Entries 27
Mean 0.5983
Std Dev 4.779
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

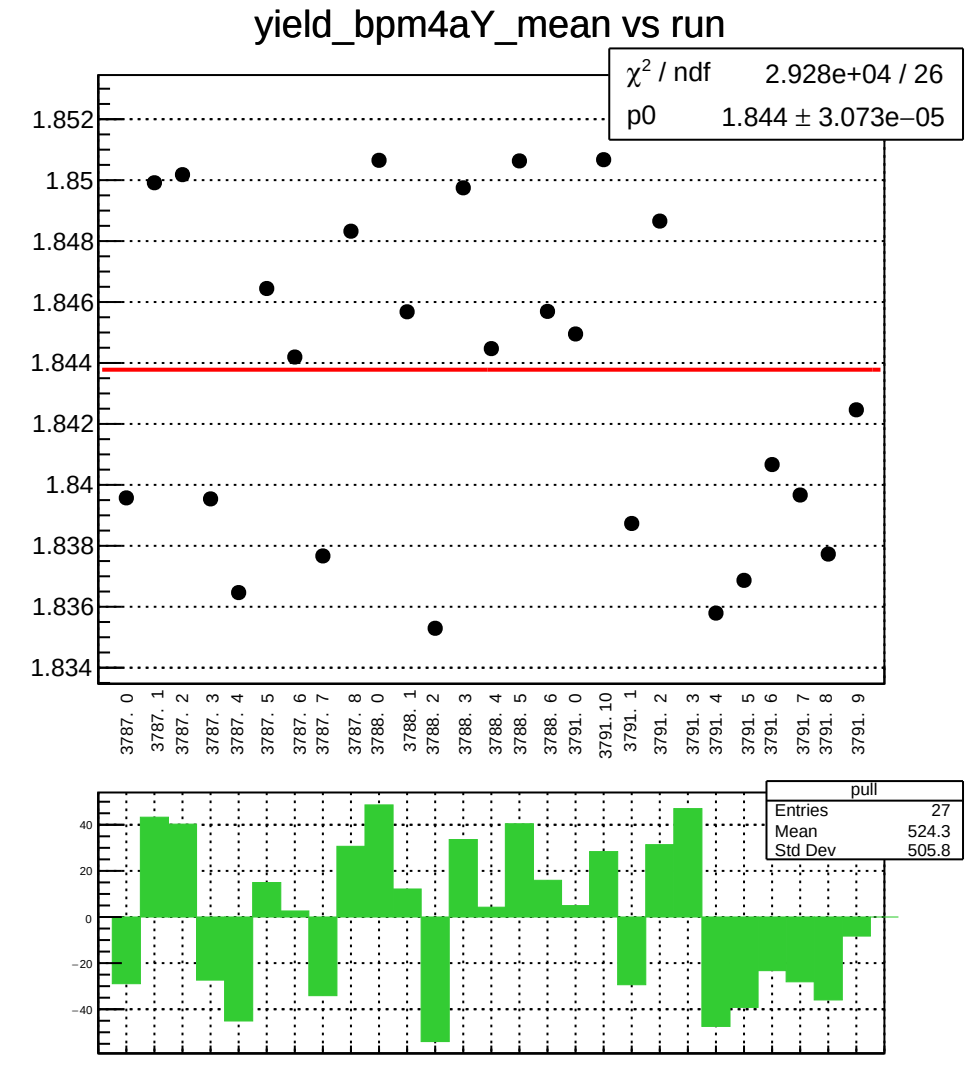

yield_cav4dY_rms vs run
χ² / ndf 1.018e+05 / 26
p0 0.1333 ± 0.0002057
0.35
0.3
0.25
0.2
0.15
0.1
0.05
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

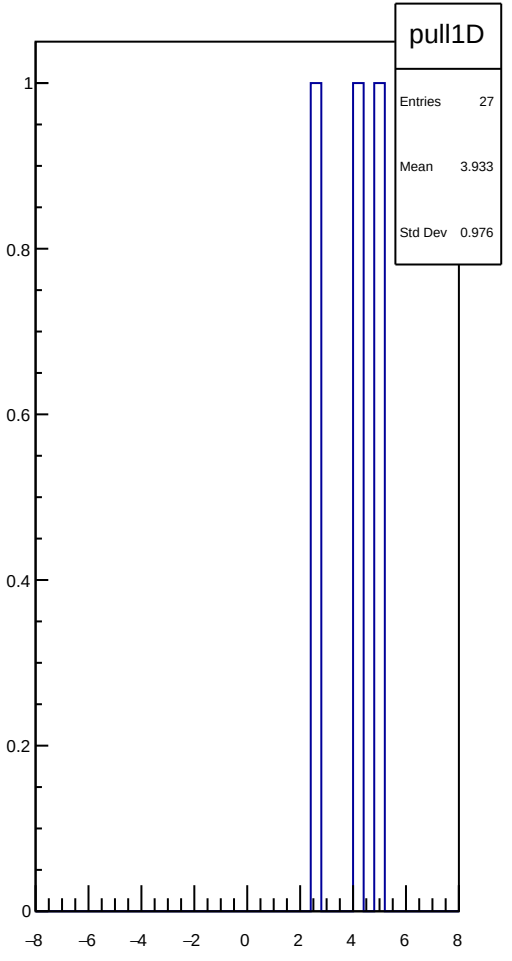

yield_bpm4aX_mean vs run
χ² / ndf 3253 / 26
p0 −0.01622 ± 1.53e−05
−0.0145
−0.015
−0.0155
−0.016
−0.0165
−0.017
−0.0175
−0.018
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

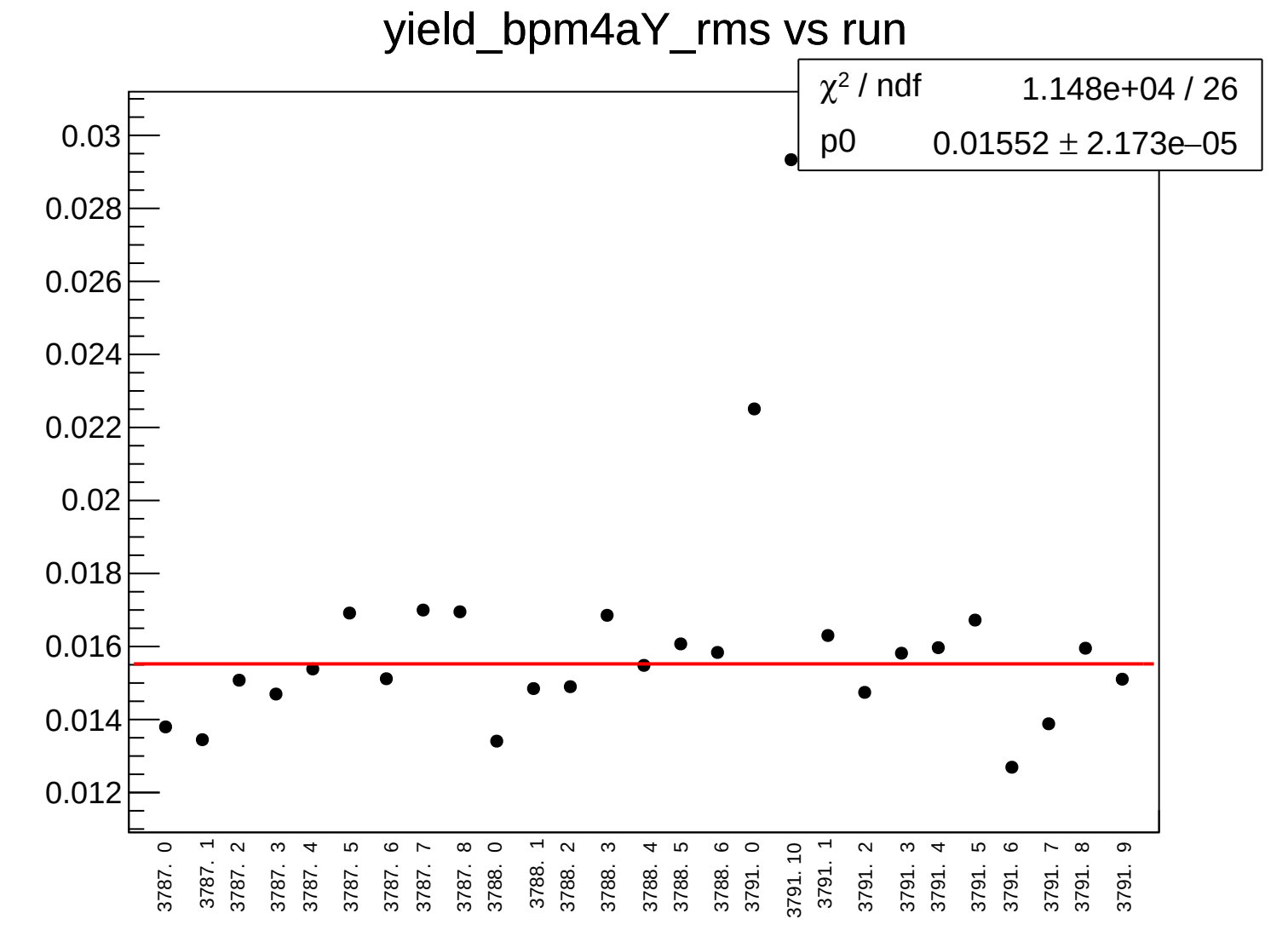

pull
Entries 27
Mean −436.5
Std Dev 450.5
20
15
10
5
0
−5
−10
−15
−20

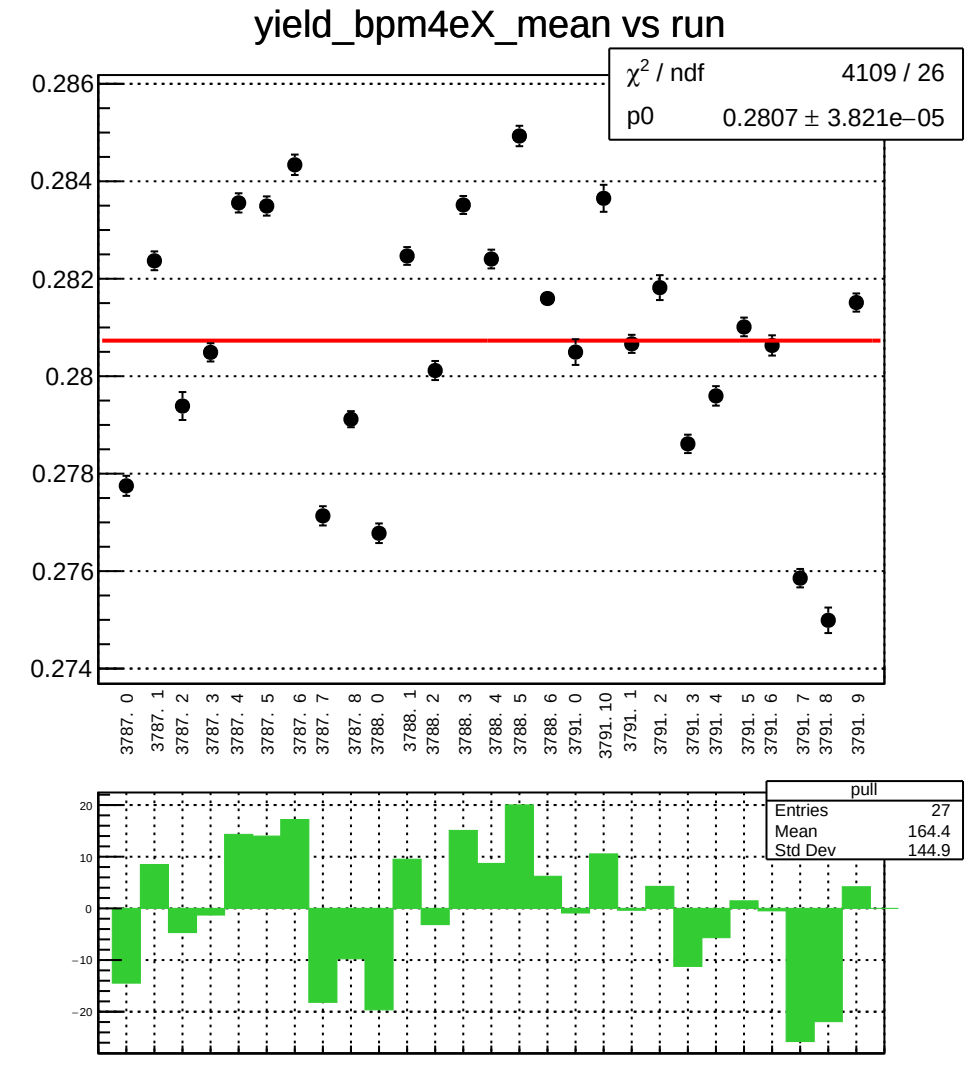

pull1D
Entries 27
Mean 0.2637
Std Dev 4.14
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

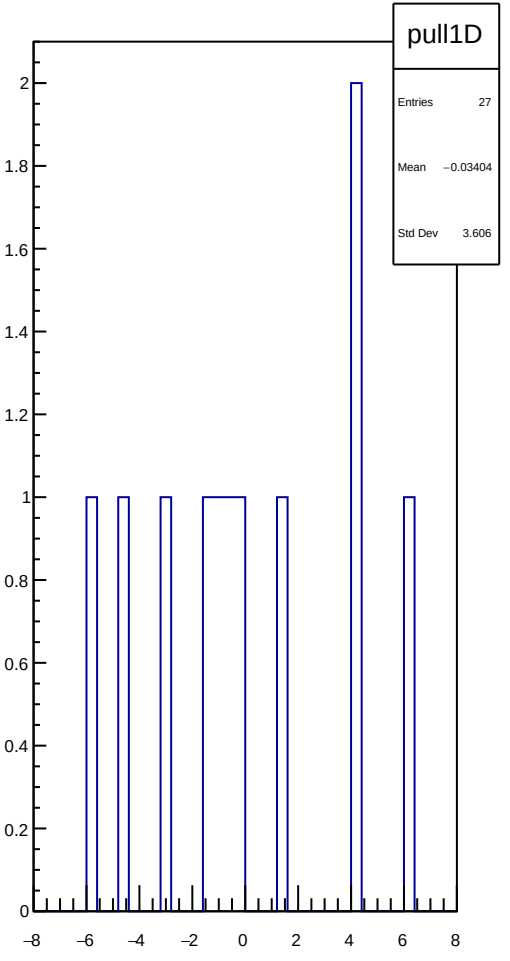

yield_bpm4aX_rms vs run
χ² / ndf 2426 / 26
p0 0.007799 ± 1.082e−05
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

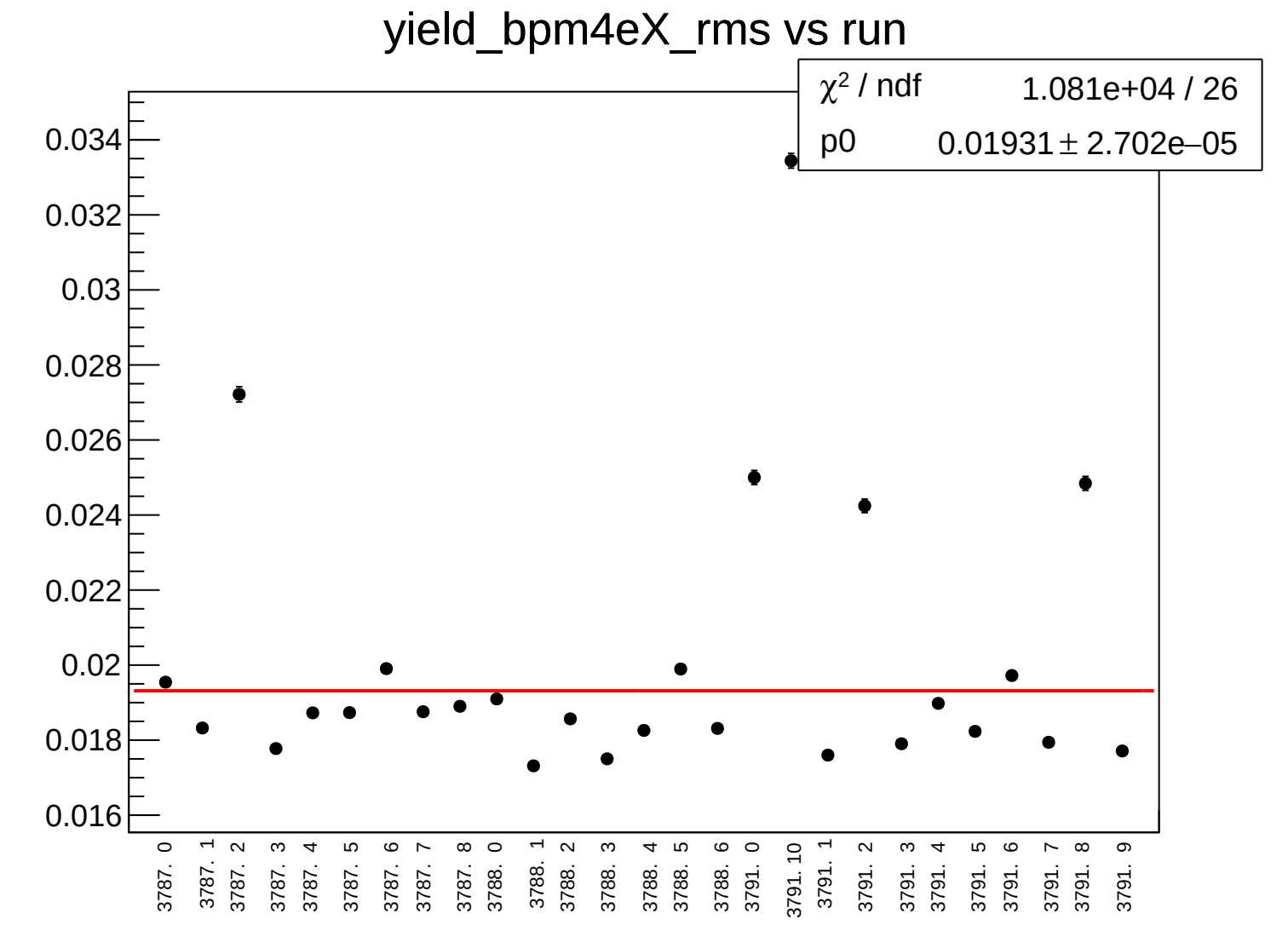

yield_bpm4aY_mean vs run
χ² / ndf 2.928e+04 / 26
p0 1.844 ± 3.073e−05
1.852
1.85
1.848
1.846
1.844
1.842
1.84
1.838
1.836
1.834
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 524.3
Std Dev 505.8
40
20
0
−20
−40

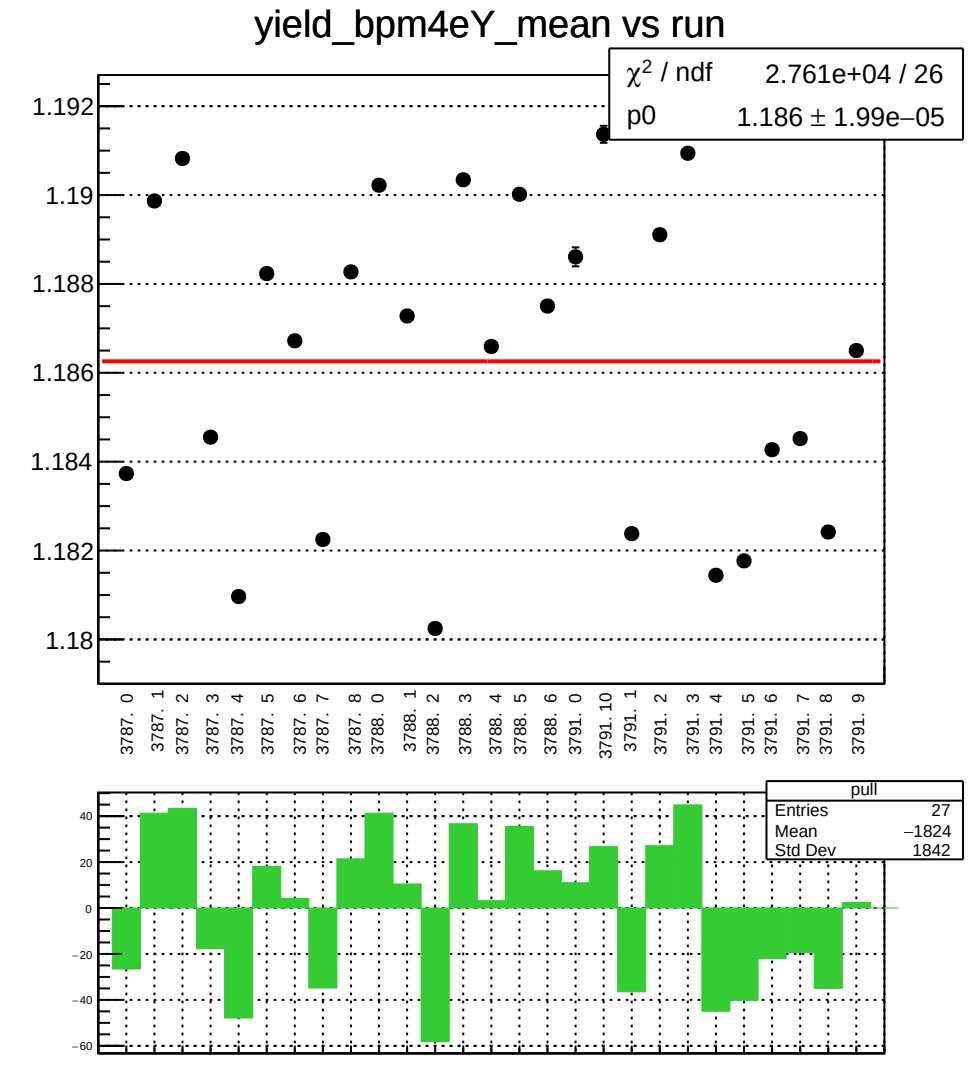

pull1D
Entries 27
Mean 3.933
Std Dev 0.976
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

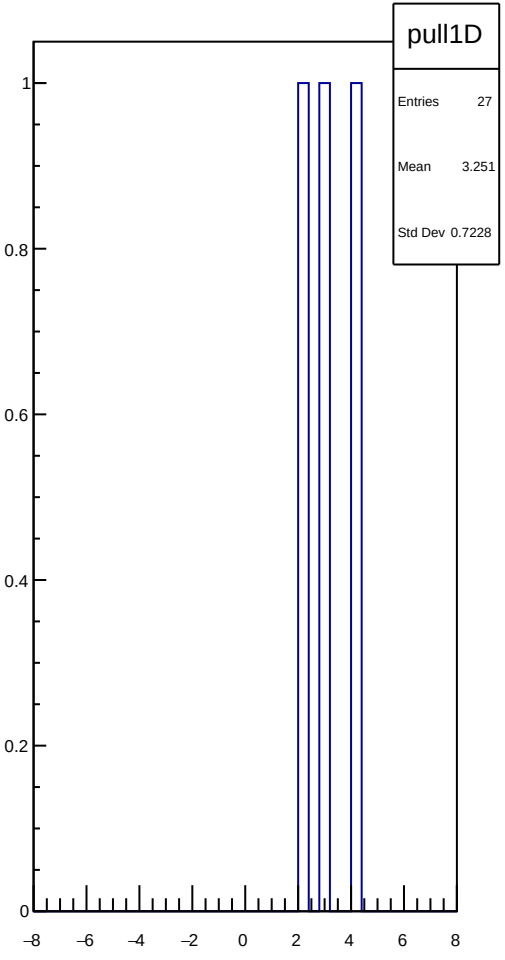

yield_bpm4aY_rms vs run
χ² / ndf 1.148e+04 / 26
p0 0.01552 ± 2.173e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

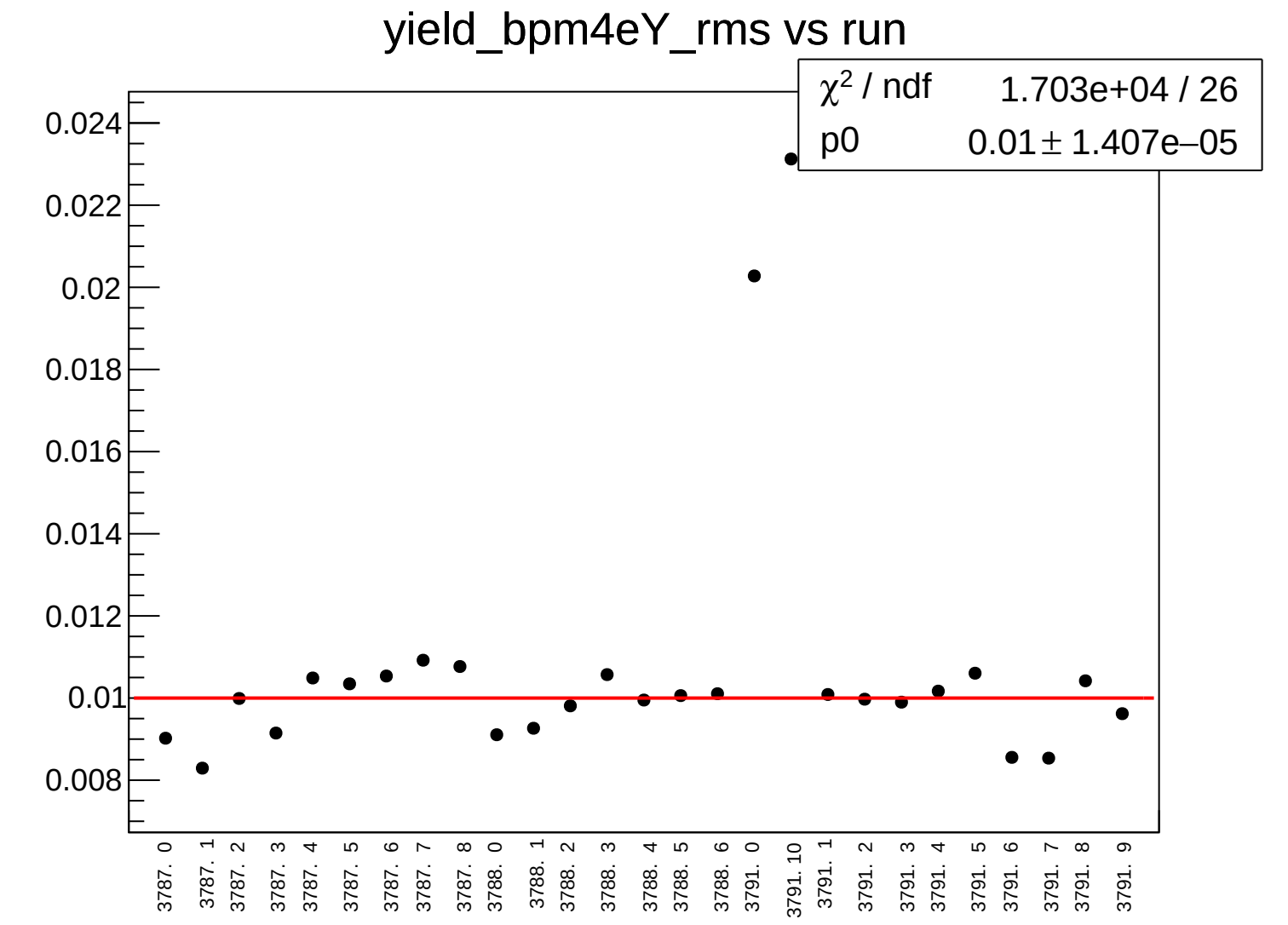

yield_bpm4eX_mean vs run
χ² / ndf 4109 / 26
p0 0.2807 ± 3.821e−05
0.286
0.284
0.282
0.28
0.278
0.276
0.274
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 164.4
Std Dev 144.9
20
10
0
−10
−20


pull1D
Entries 27
Mean −0.03404
Std Dev 3.606
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 1.081e+04 / 26
p0 0.01931 ± 2.702e–05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9


yield_bpm4eY_mean vs run
χ² / ndf 2.761e+04 / 26
p0 1.186 ± 1.99e−05
1.192
1.19
1.188
1.186
1.184
1.182
1.18
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −1824
Std Dev 1842
40
20
0
−20
−40
−60


pull1D
Entries 27
Mean 3.251
Std Dev 0.7228
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 1.703e+04 / 26
p0 0.01 ± 1.407e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
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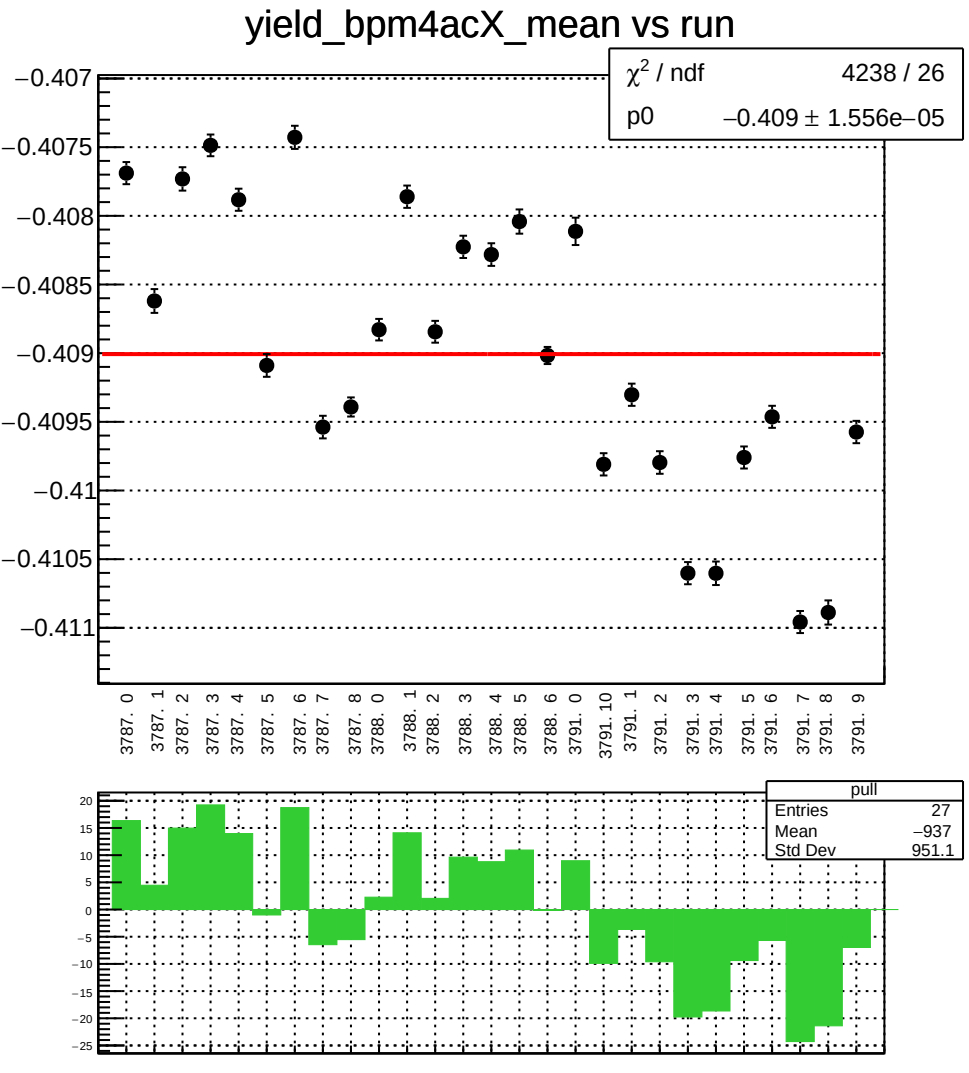
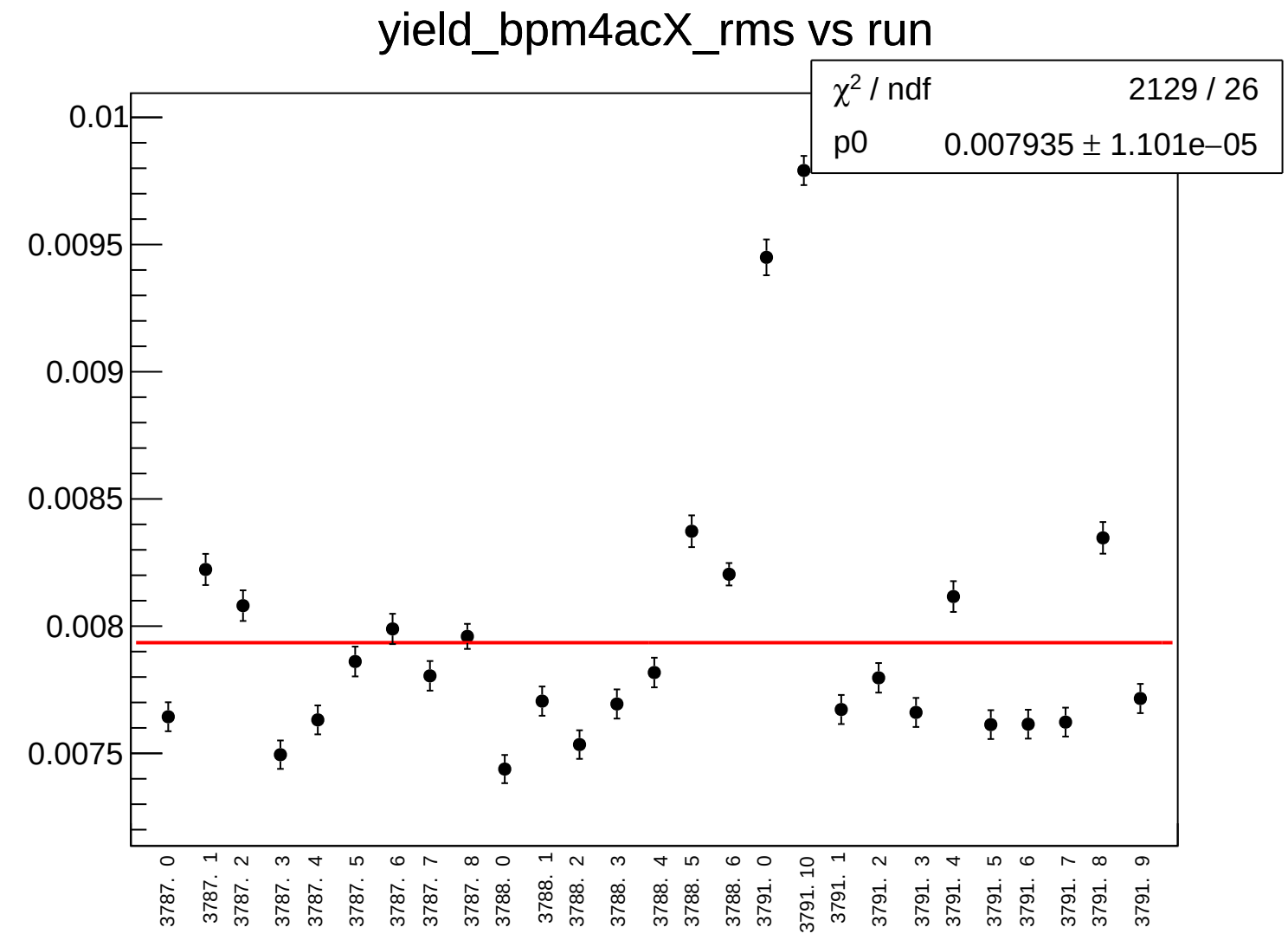
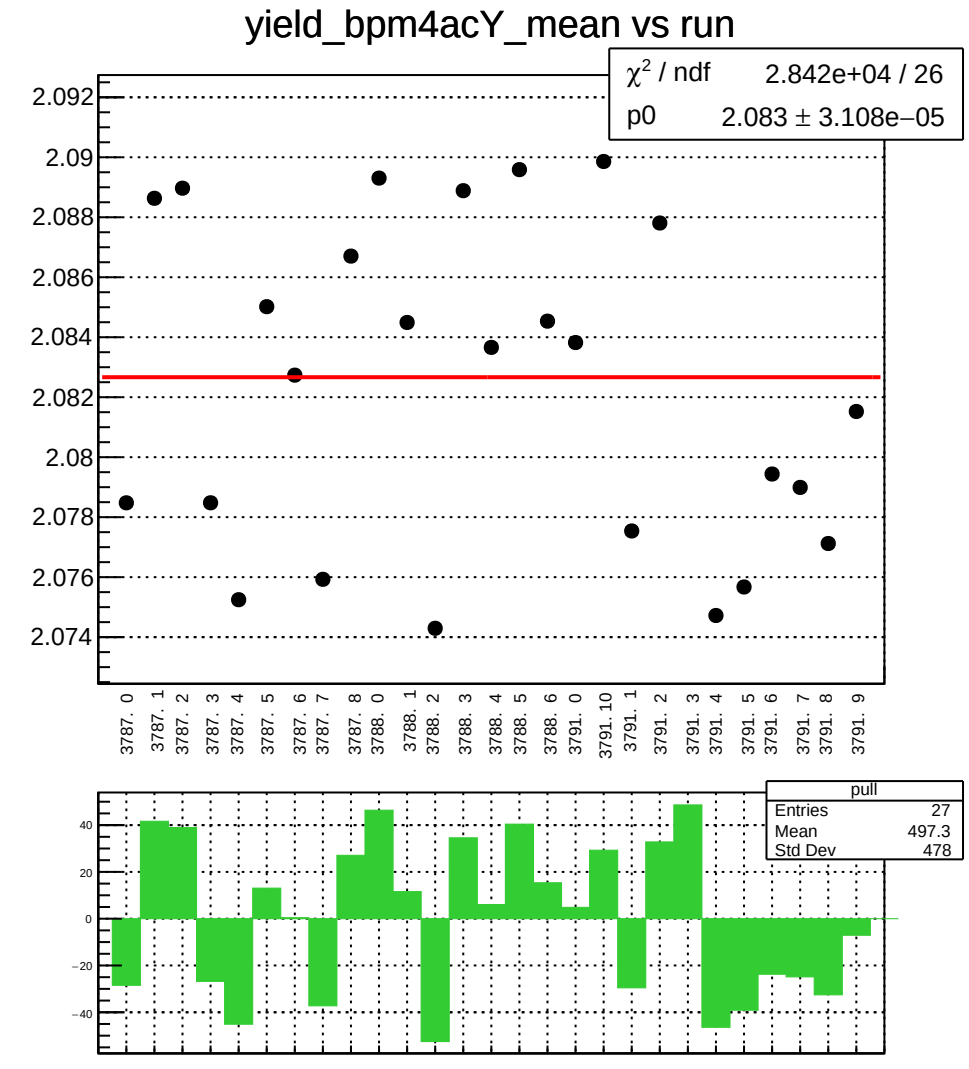
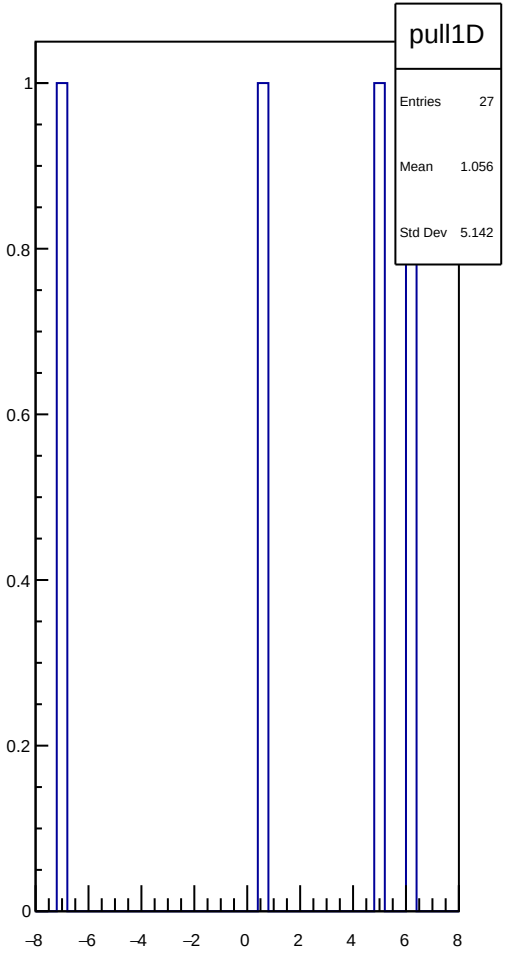
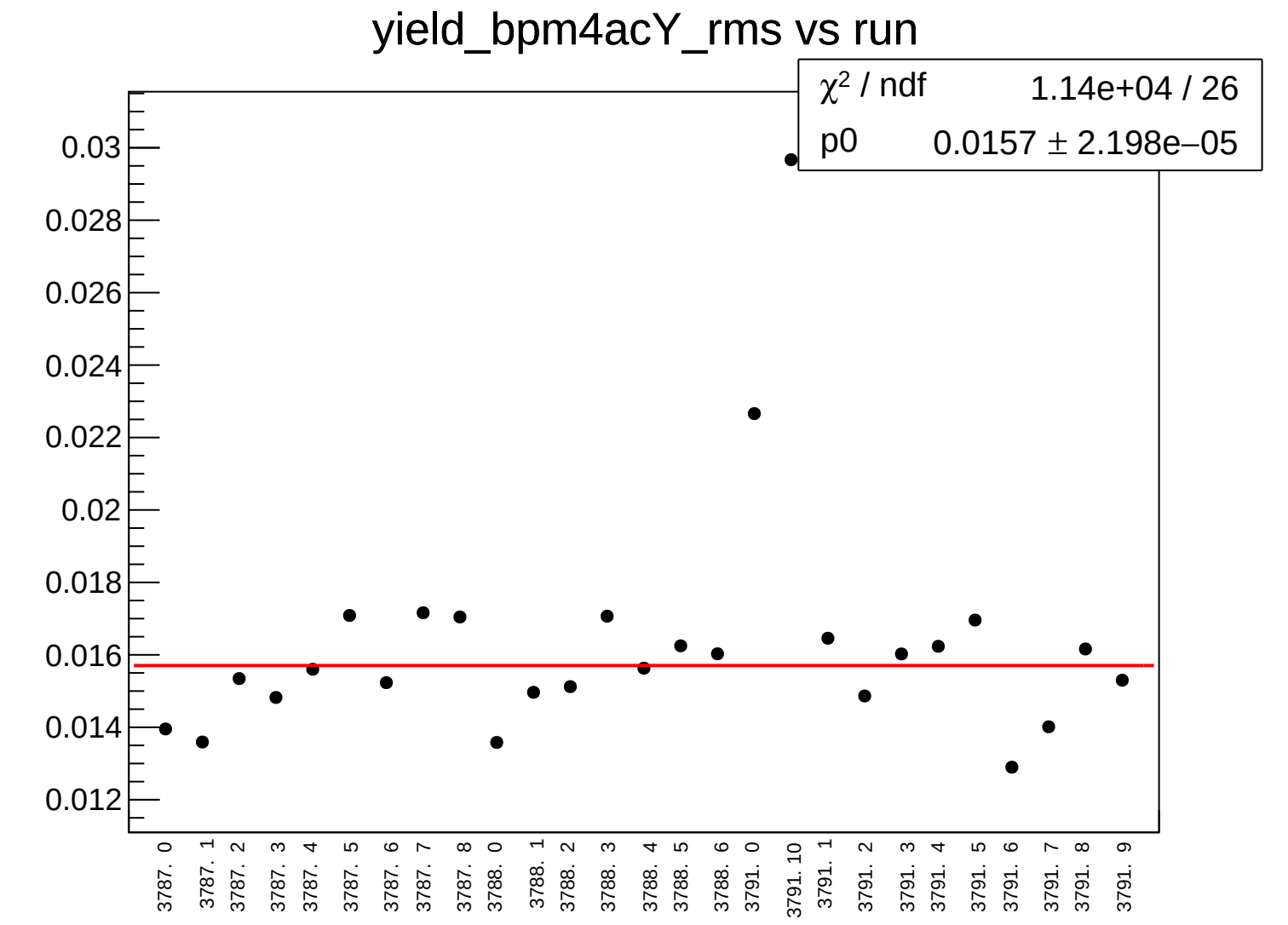
3791. 6
3791. 7
3791. 8
3791. 9

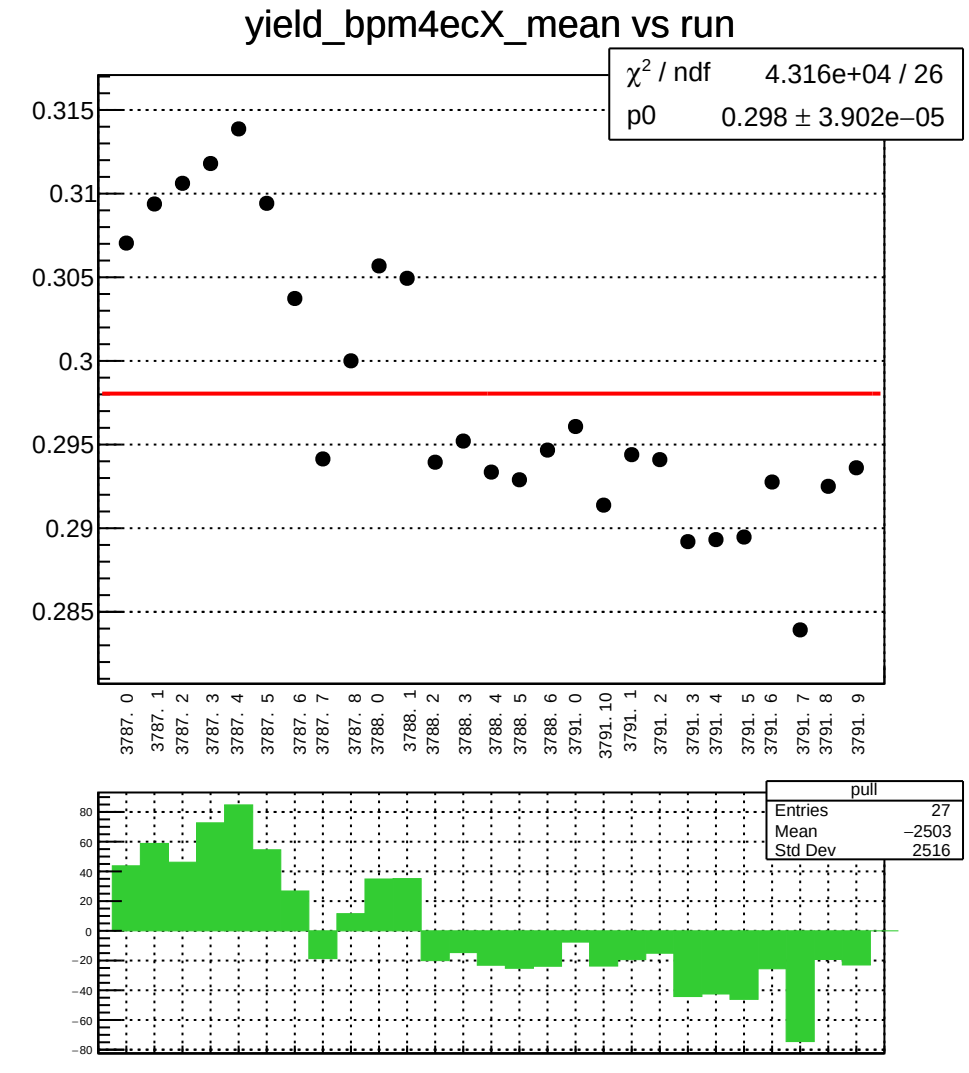

yield_bpm4acX_mean vs run
χ² / ndf 4238 / 26
p0 −0.409 ± 1.556e−05
−0.407
−0.4075
−0.408
−0.4085
−0.409
−0.4095
−0.41
−0.4105
−0.411
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −937
Std Dev 951.1
20
15
10
5
0
−5
−10
−15
−20
−25
pull1D
Entries 27
Mean −2.069
Std Dev 3.926
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

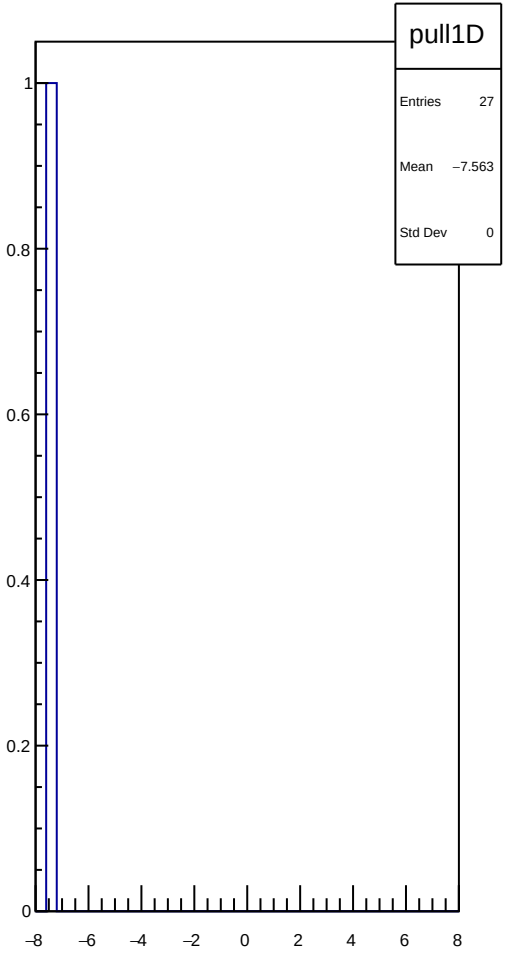

yield_bpm4acX_rms vs run
χ² / ndf 2129 / 26
p0 0.007935 ± 1.101e−05
0.01
0.0095
0.009
0.0085
0.008
0.0075
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

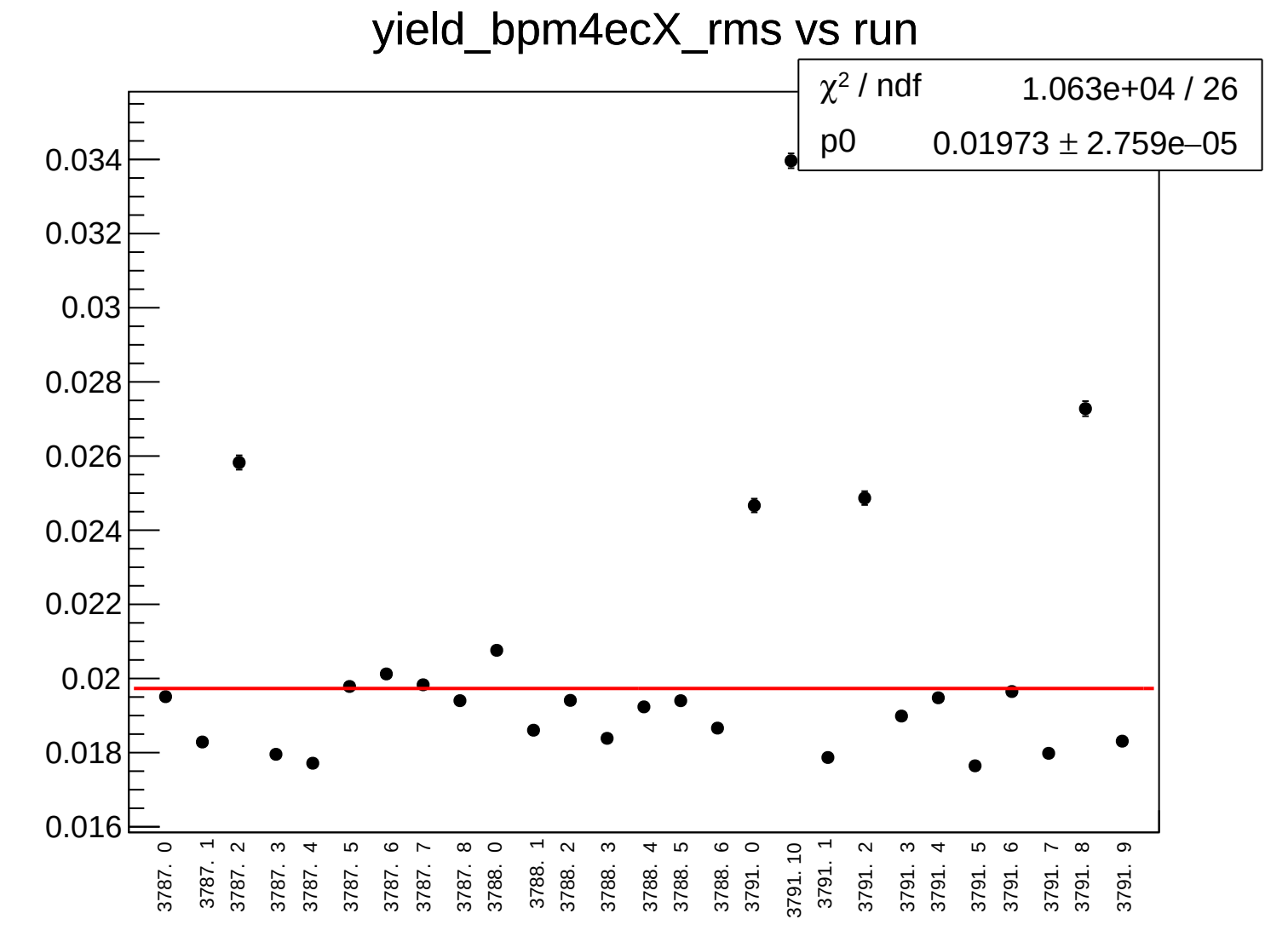

yield_bpm4acY_mean vs run
χ² / ndf 2.842e+04 / 26
p0 2.083 ± 3.108e−05
2.092
2.09
2.088
2.086
2.084
2.082
2.08
2.078
2.076
2.074
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 497.3
Std Dev 478
40
20
0
−20
−40

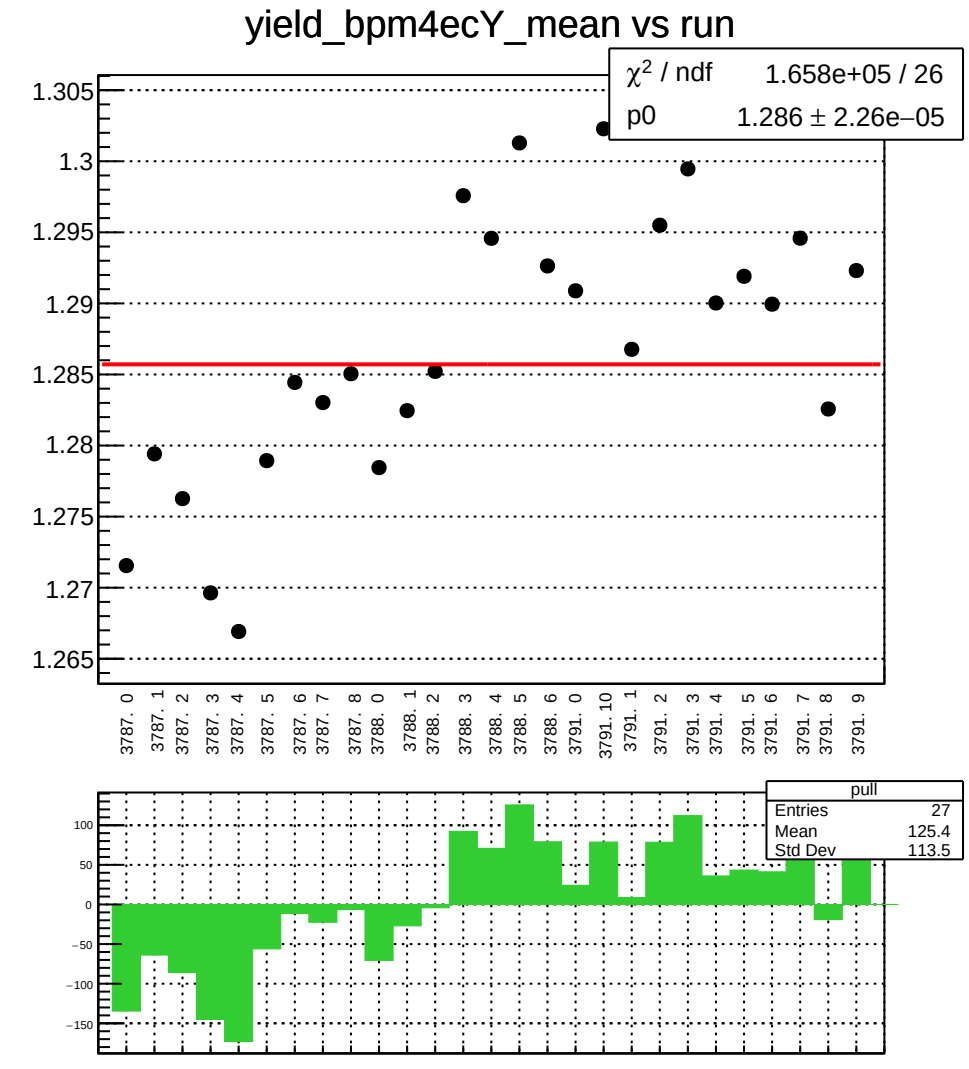

pull1D
Entries 27
Mean 1.056
Std Dev 5.142
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

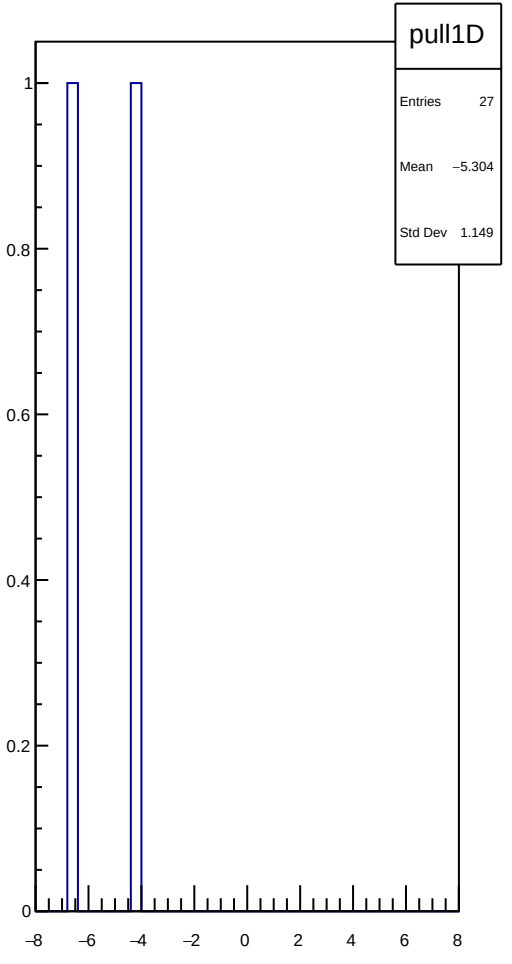

yield_bpm4acY_rms vs run
χ² / ndf 1.14e+04 / 26
p0 0.0157 ± 2.198e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

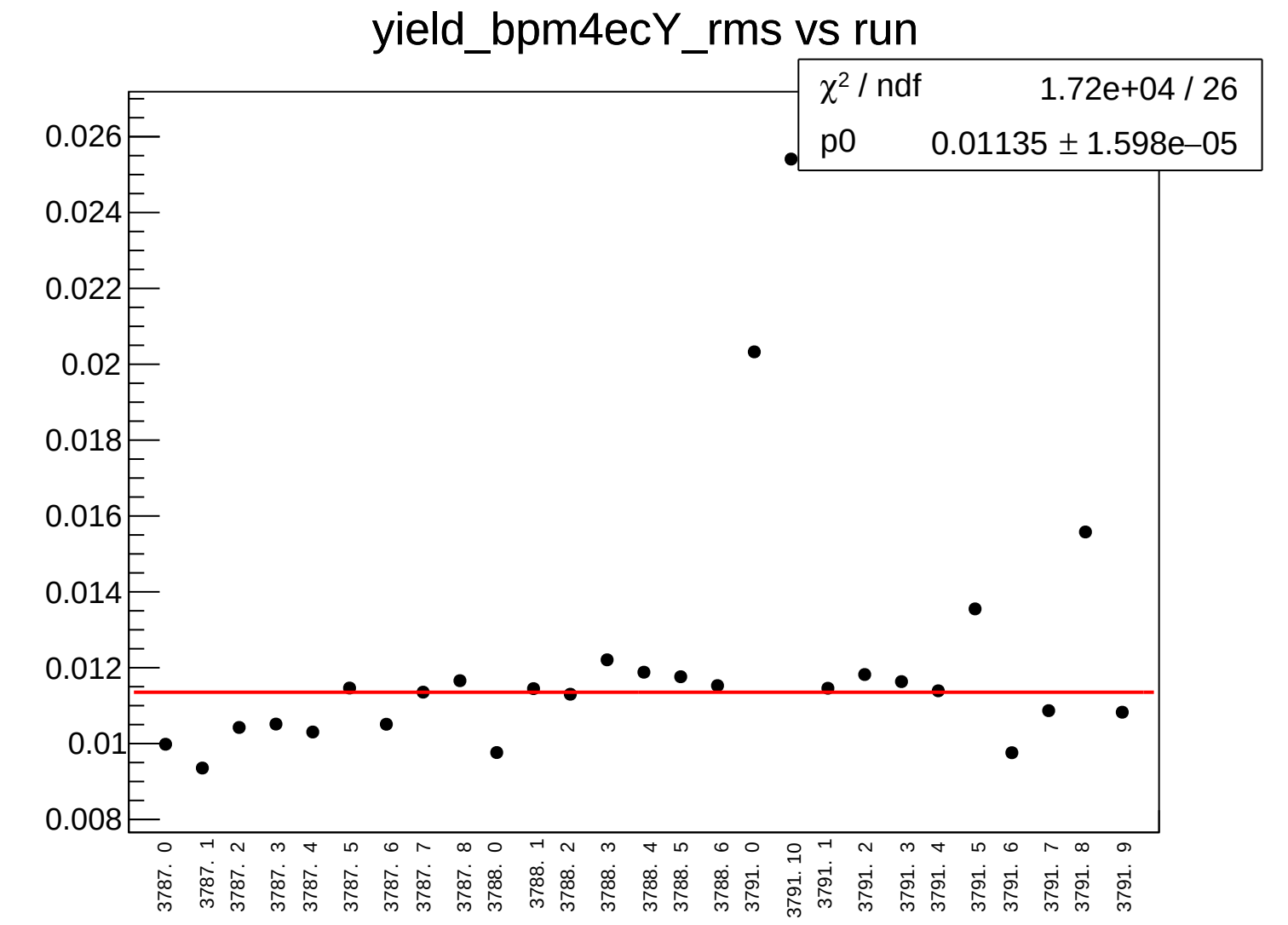

yield_bpm4ecX_mean vs run
χ² / ndf 4.316e+04 / 26
p0 0.298 ± 3.902e−05
0.315
0.31
0.305
0.3
0.295
0.29
0.285
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −2503
Std Dev 2516
80
60
40
20
0
−20
−40
−60
−80

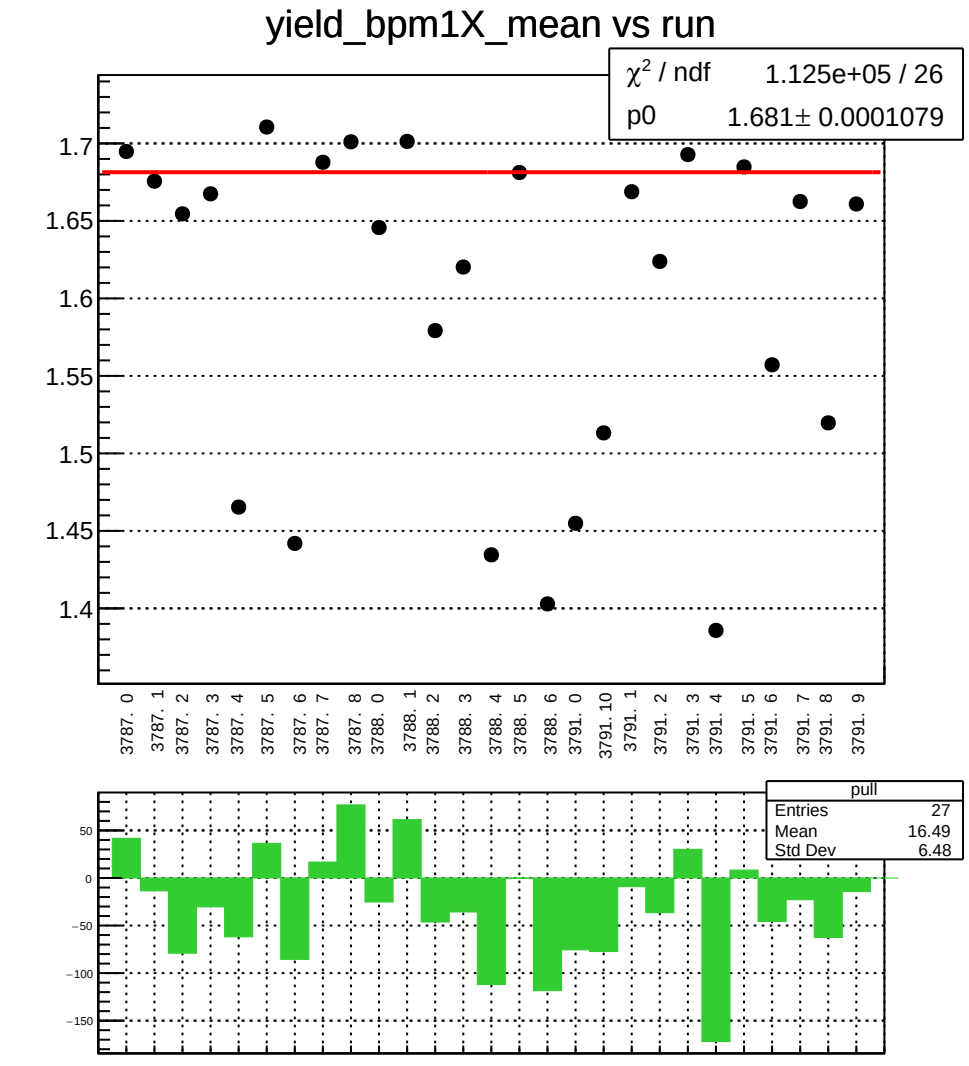

pull1D
Entries 27
Mean −7.563
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

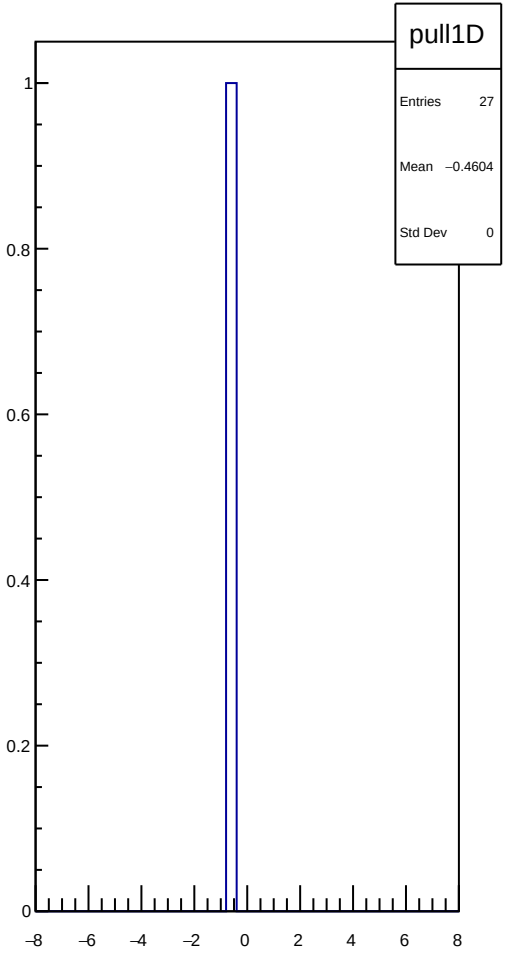

yield_bpm4ecX_rms vs run
χ² / ndf 1.063e+04 / 26
p0 0.01973 ± 2.759e–05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

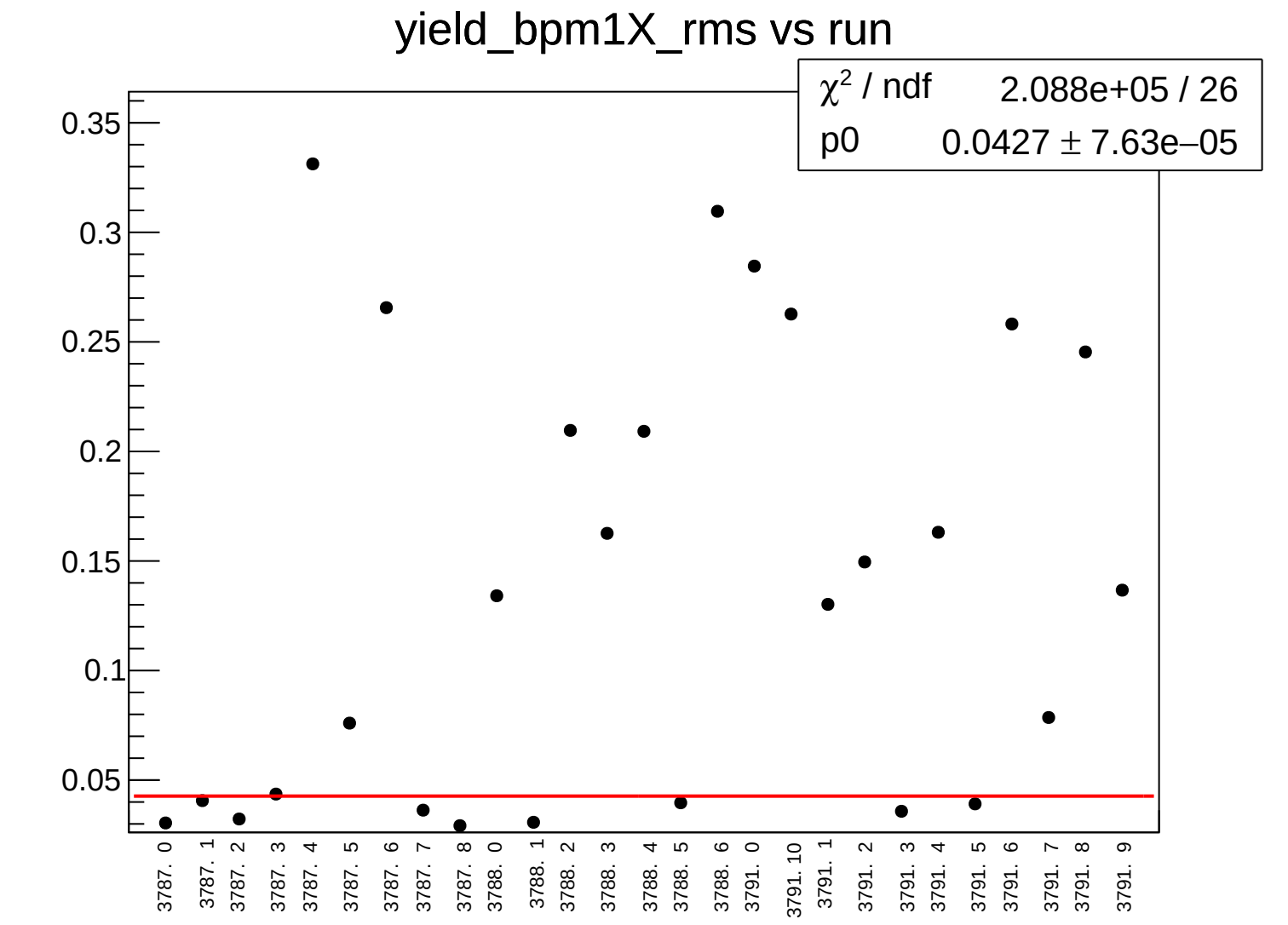

yield_bpm4ecY_mean vs run
χ² / ndf 1.658e+05 / 26
p0 1.286 ± 2.26e−05
1.305
1.3
1.295
1.29
1.285
1.28
1.275
1.27
1.265
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 125.4
Std Dev 113.5
100
50
0
−50
−100
−150

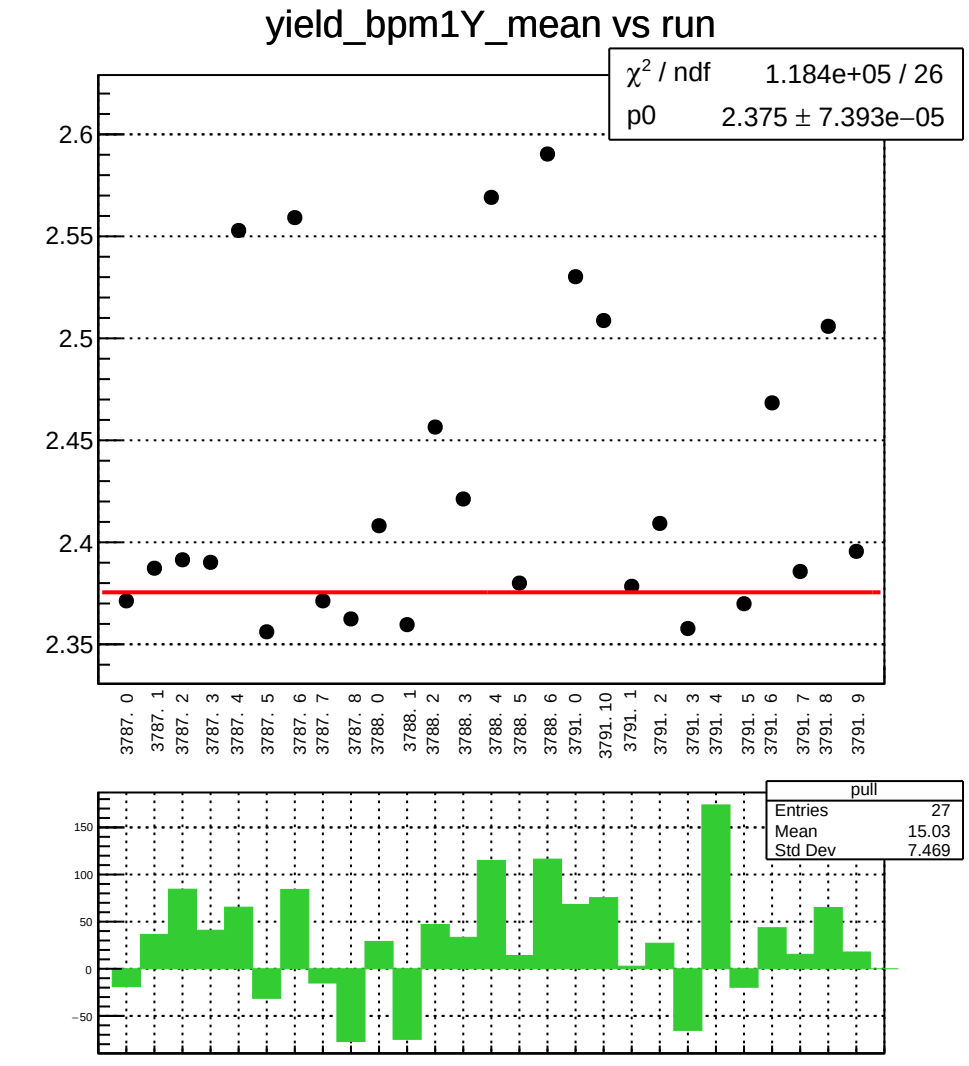

pull1D
Entries 27
Mean −5.304
Std Dev 1.149
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

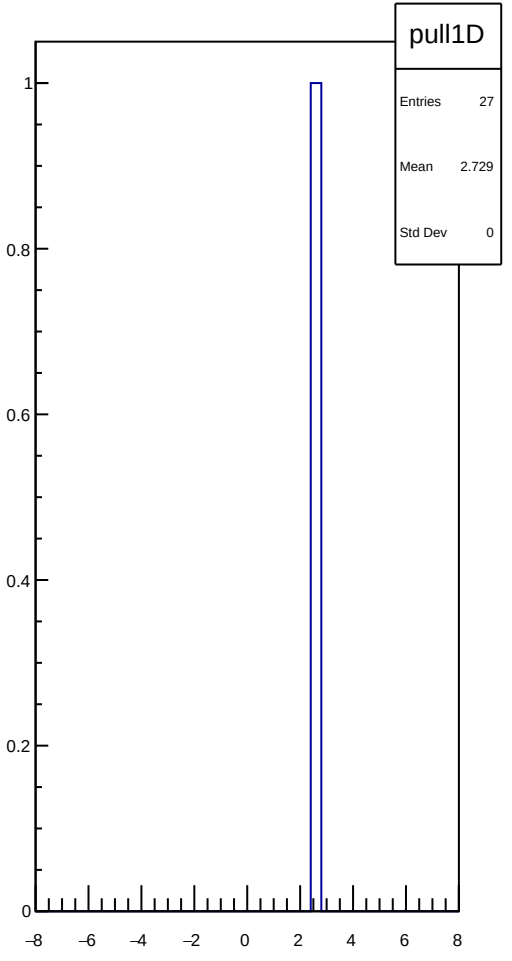

yield_bpm4ecY_rms vs run
χ² / ndf 1.72e+04 / 26
p0 0.01135 ± 1.598e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

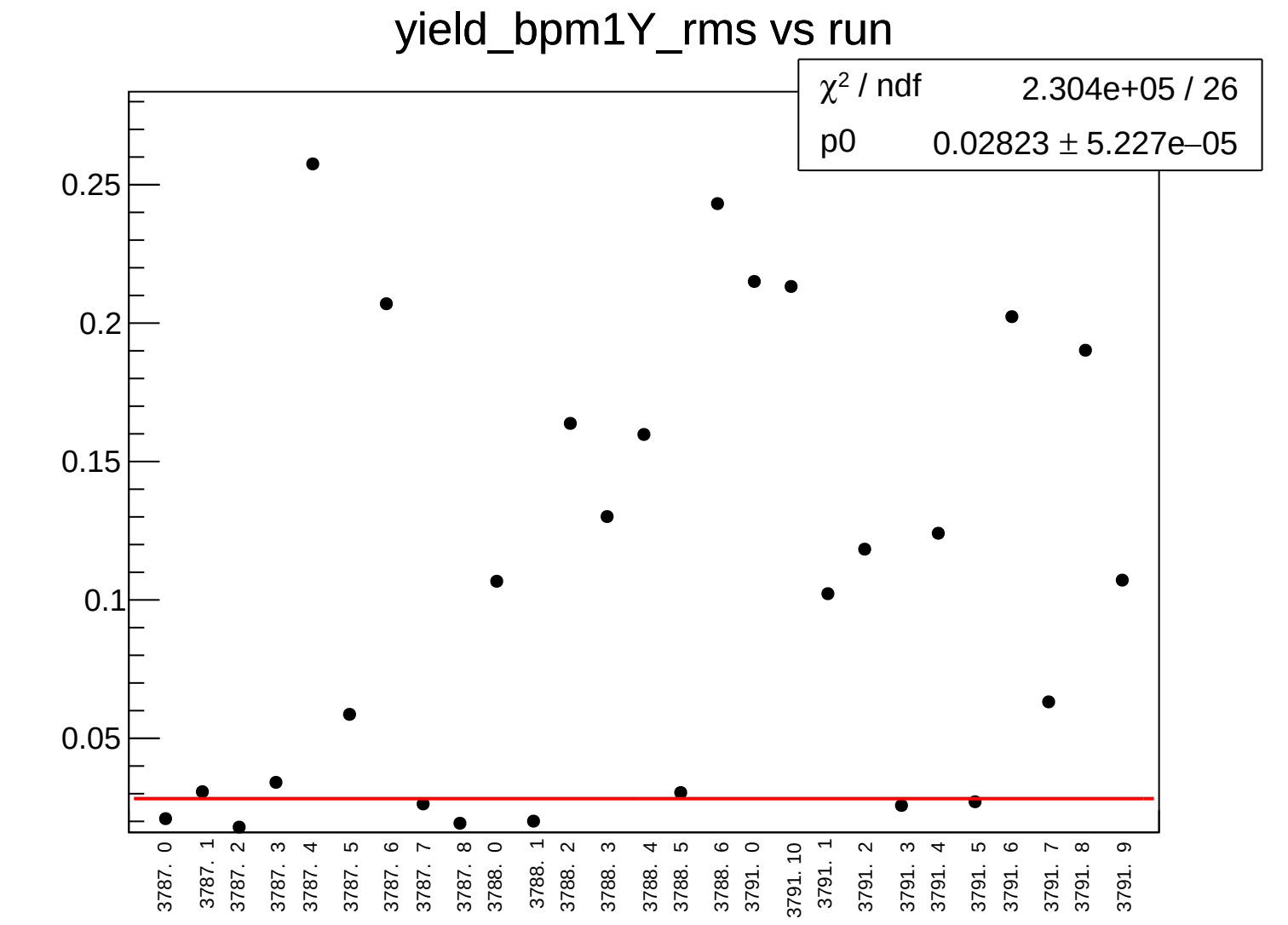

yield_bpm1X_mean vs run
χ² / ndf 1.125e+05 / 26
p0 1.681± 0.0001079
1.7
1.65
1.6
1.55
1.5
1.45
1.4
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 16.49
Std Dev 6.48
50
0
−50
−100
−150

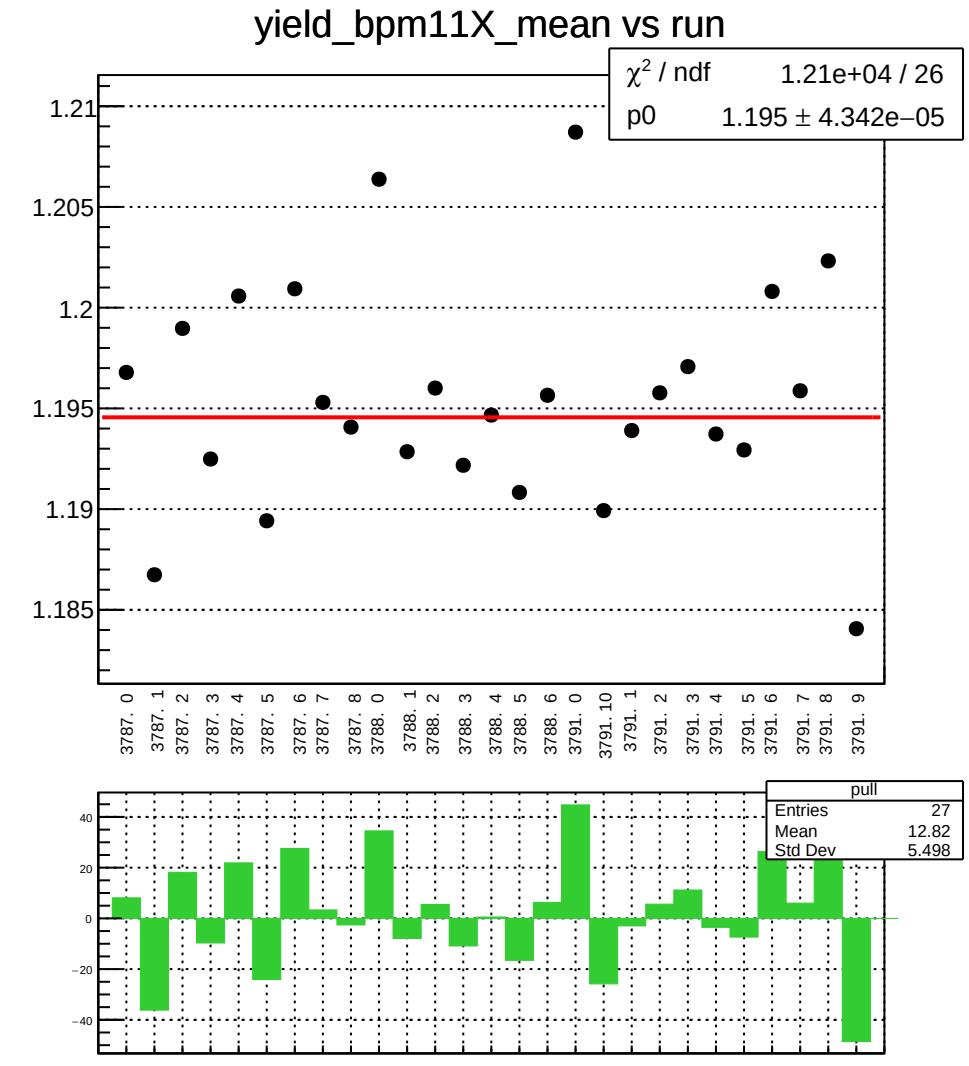

pull1D
Entries 27
Mean −0.4604
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

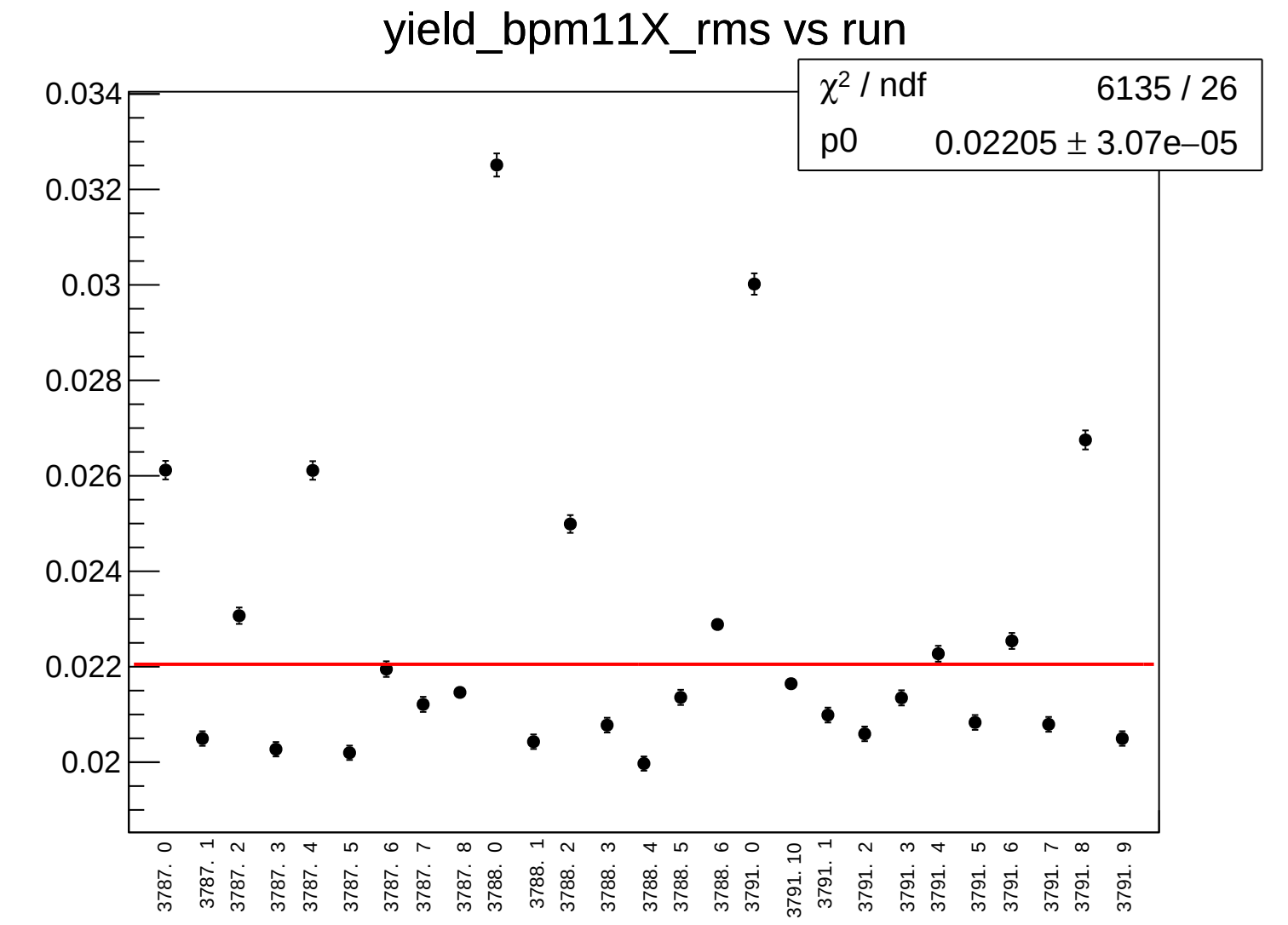

yield_bpm1X_rms vs run
χ² / ndf 2.088e+05 / 26
p0 0.0427 ± 7.63e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

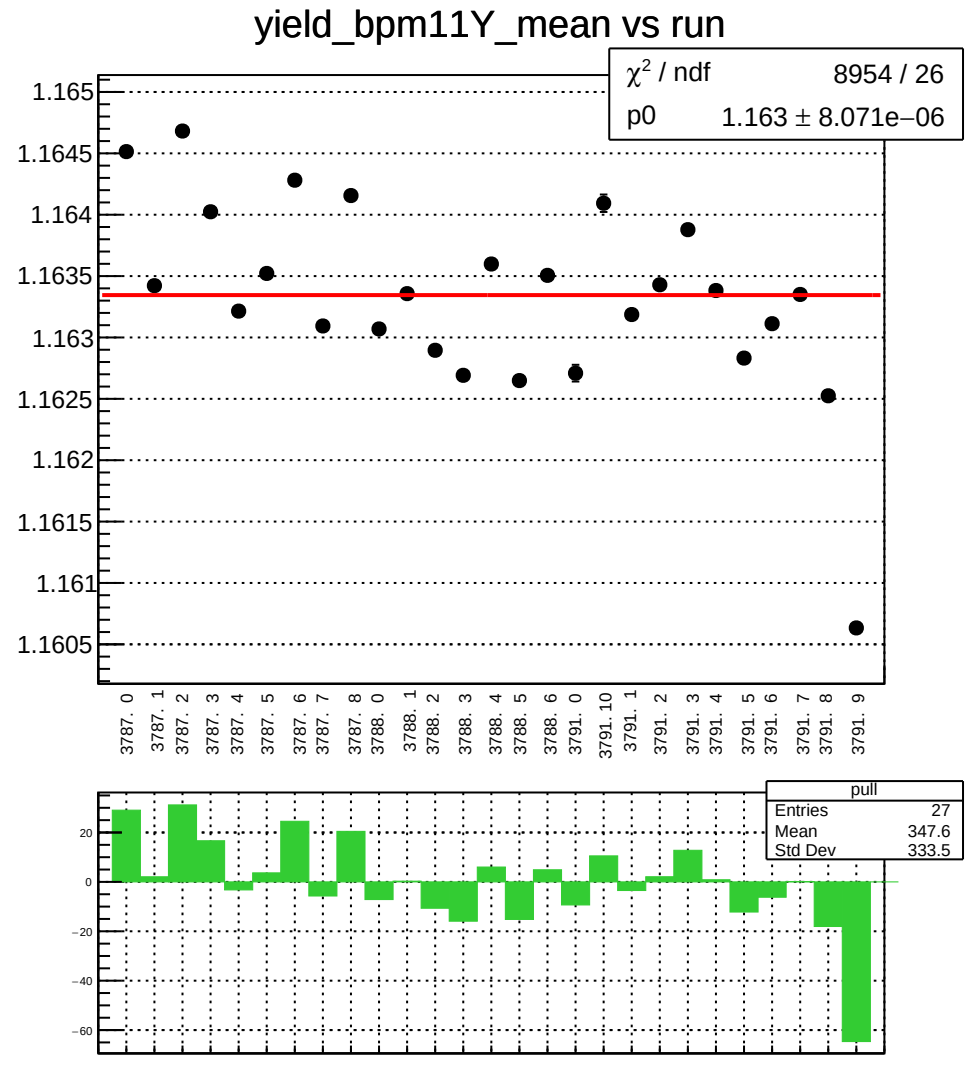

yield_bpm1Y_mean vs run
χ² / ndf 1.184e+05 / 26
p0 2.375 ± 7.393e−05
2.6
2.55
2.5
2.45
2.4
2.35
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 15.03
Std Dev 7.469
150
100
50
0
−50

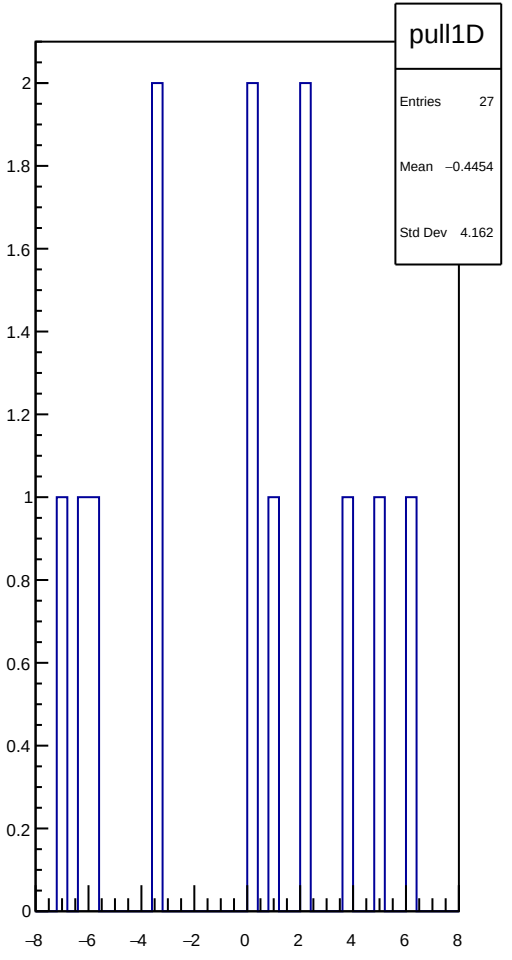

pull1D
Entries 27
Mean 2.729
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

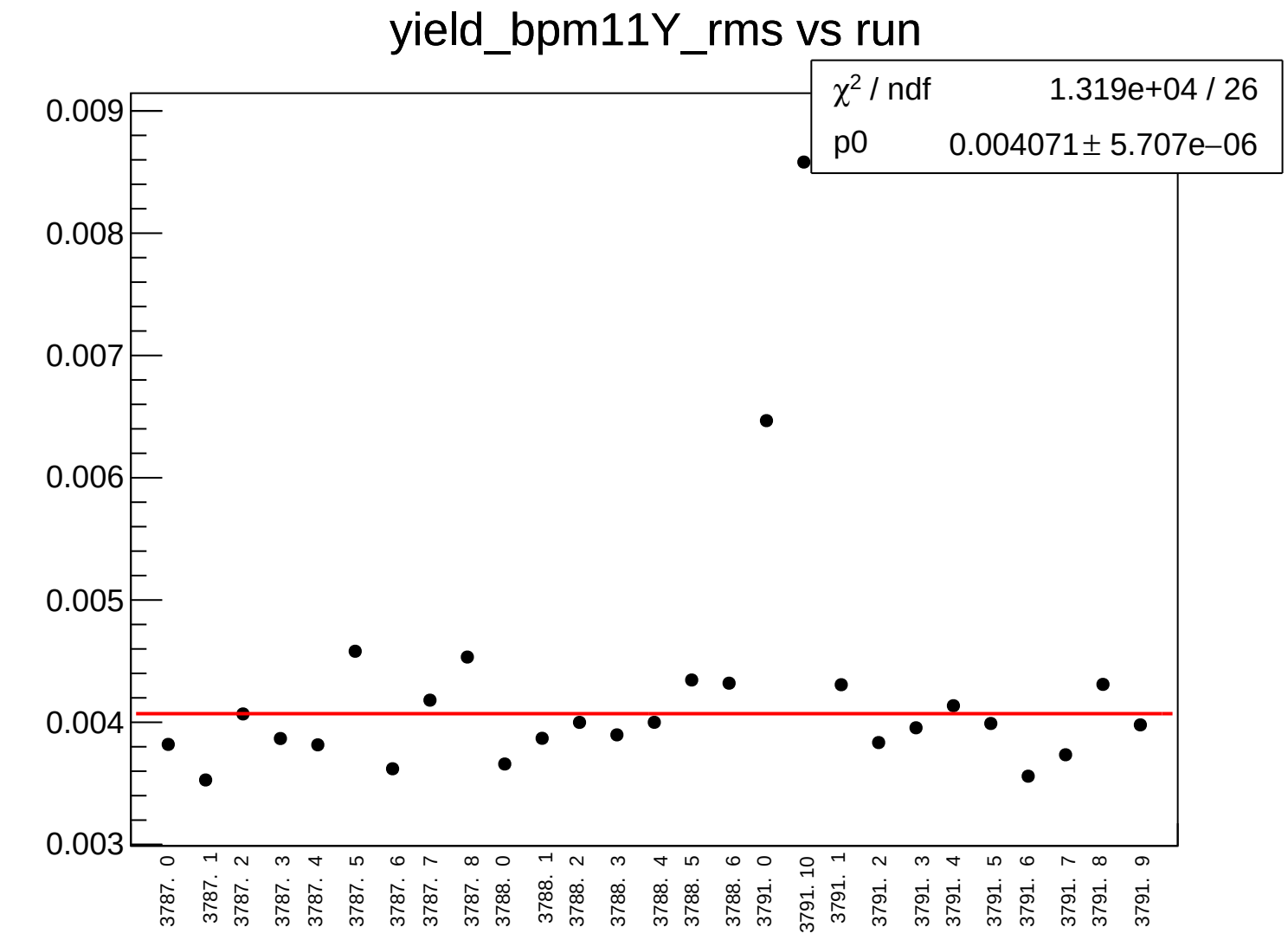

yield_bpm1Y_rms vs run
χ² / ndf 2.304e+05 / 26
p0 0.02823 ± 5.227e–05
0.25
0.2
0.15
0.1
0.05
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

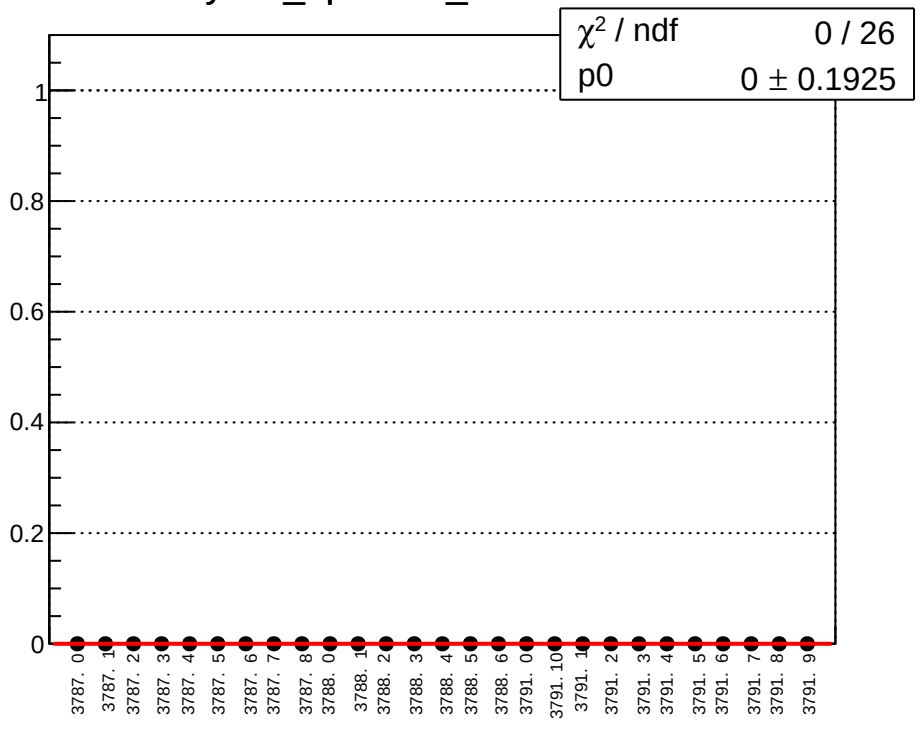

yield_bpm11X_mean vs run
χ² / ndf 1.21e+04 / 26
p0 1.195 ± 4.342e−05
1.21
1.205
1.2
1.195
1.19
1.185
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 12.82
Std Dev 5.498
40
20
0
−20
−40
pull1D
Entries 27
Mean 0.2639
Std Dev 5.163
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

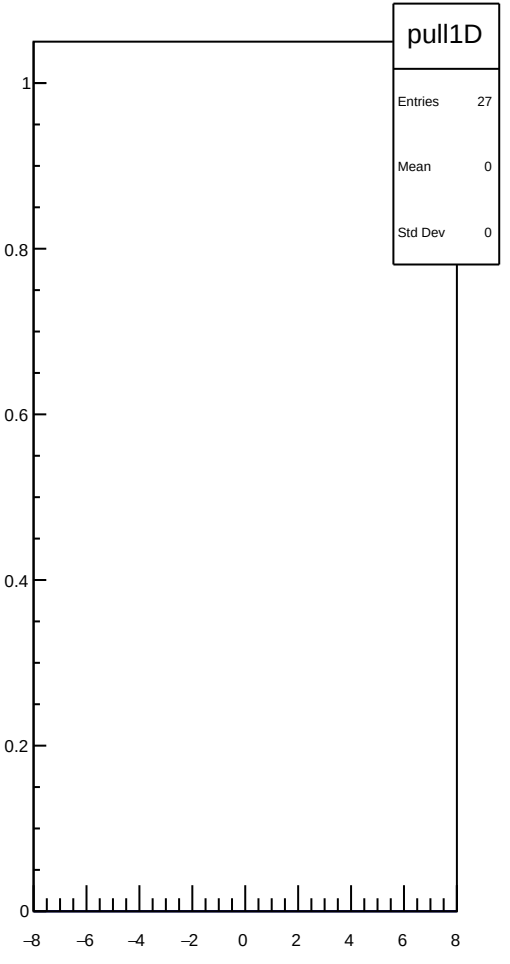

yield_bpm11X_rms vs run
χ² / ndf 6135 / 26
p0 0.02205 ± 3.07e–05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

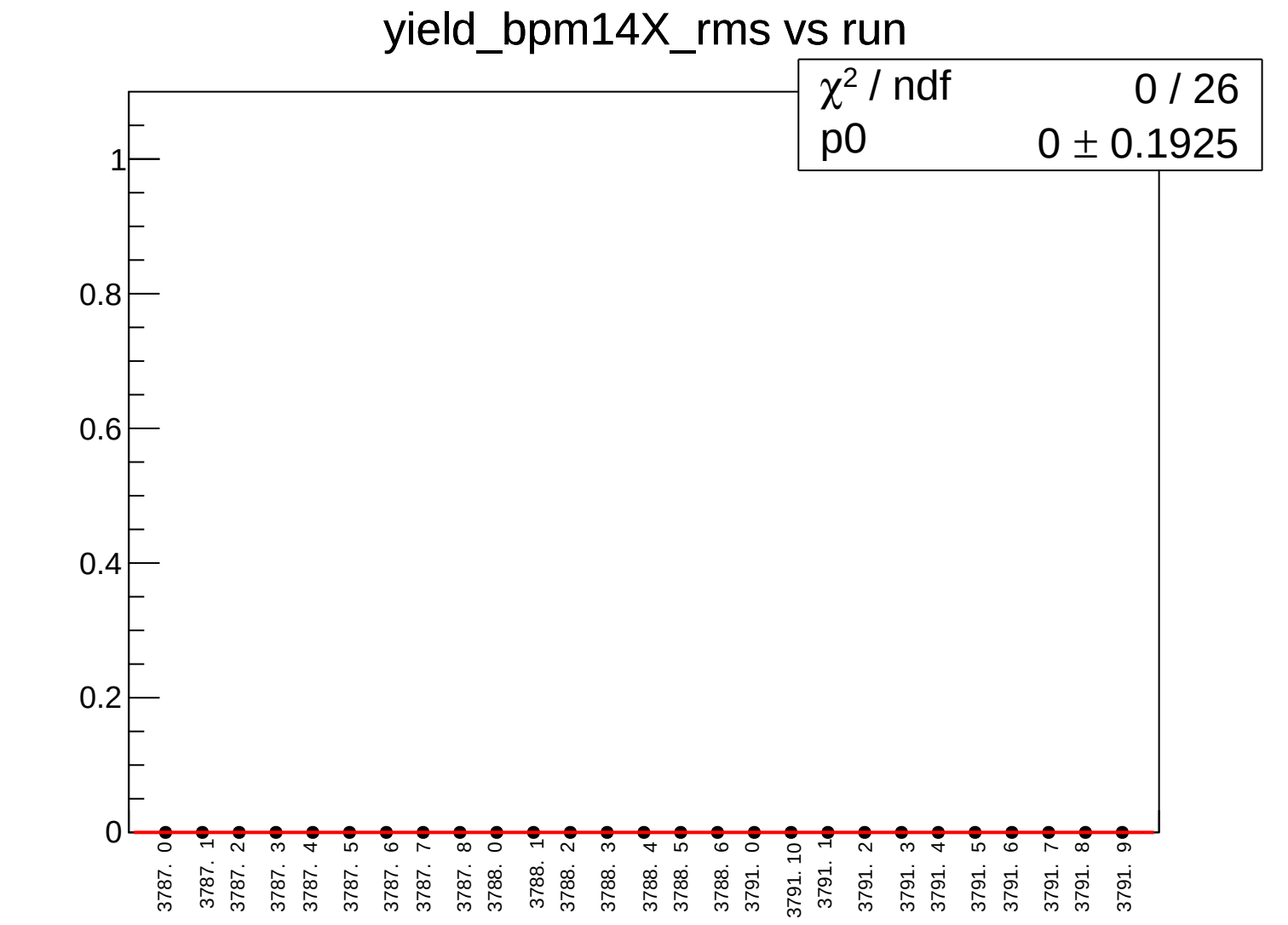

yield_bpm11Y_mean vs run
χ² / ndf 8954 / 26
p0 1.163 ± 8.071e−06
1.165
1.1645
1.164
1.1635
1.163
1.1625
1.162
1.1615
1.161
1.1605
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 347.6
Std Dev 333.5
20
0
−20
−40
−60

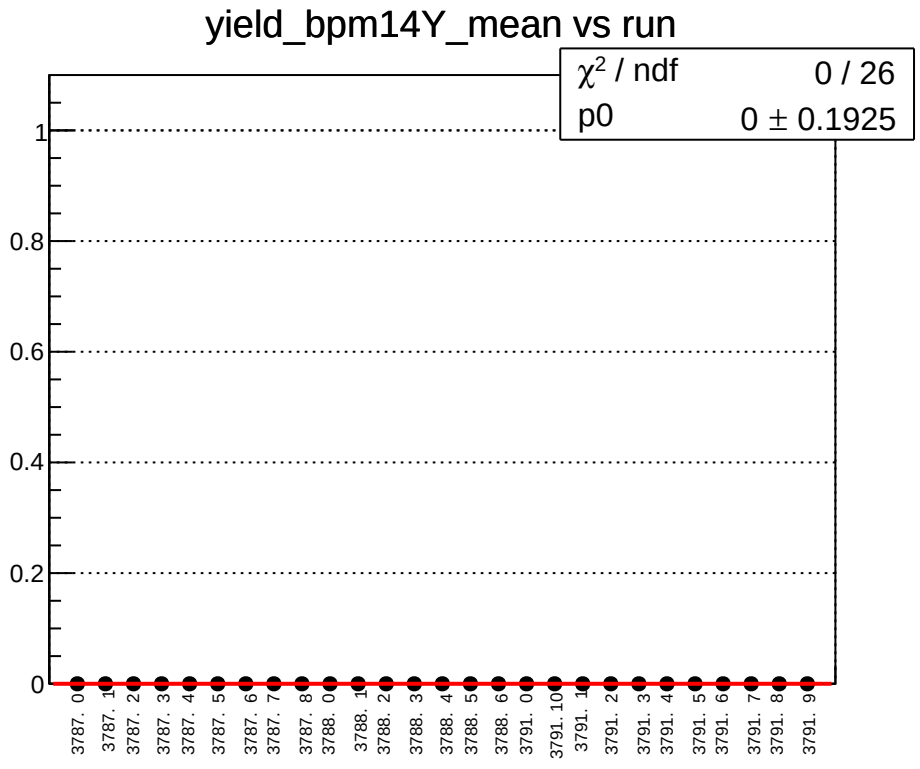

pull1D
Entries 27
Mean −0.4454
Std Dev 4.162
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

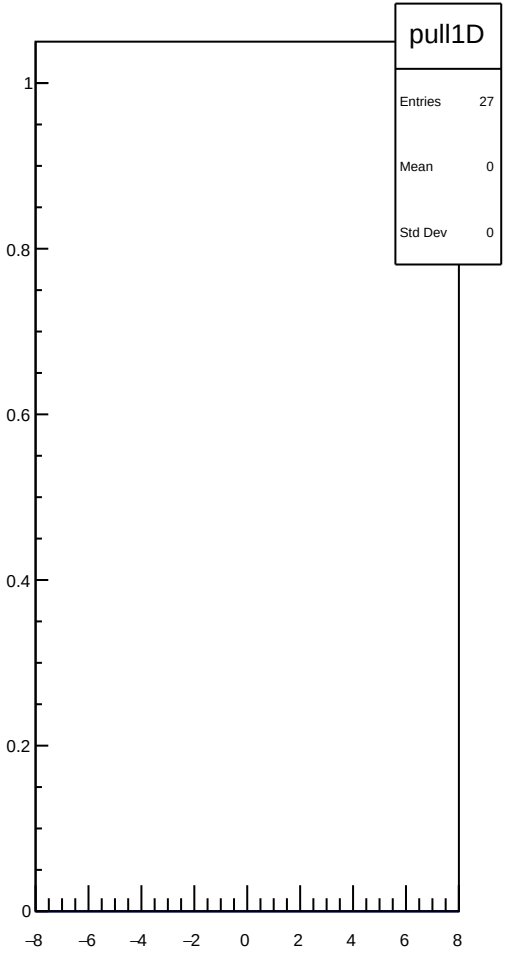

yield_bpm11Y_rms vs run
χ² / ndf 1.319e+04 / 26
p0 0.004071 ± 5.707e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

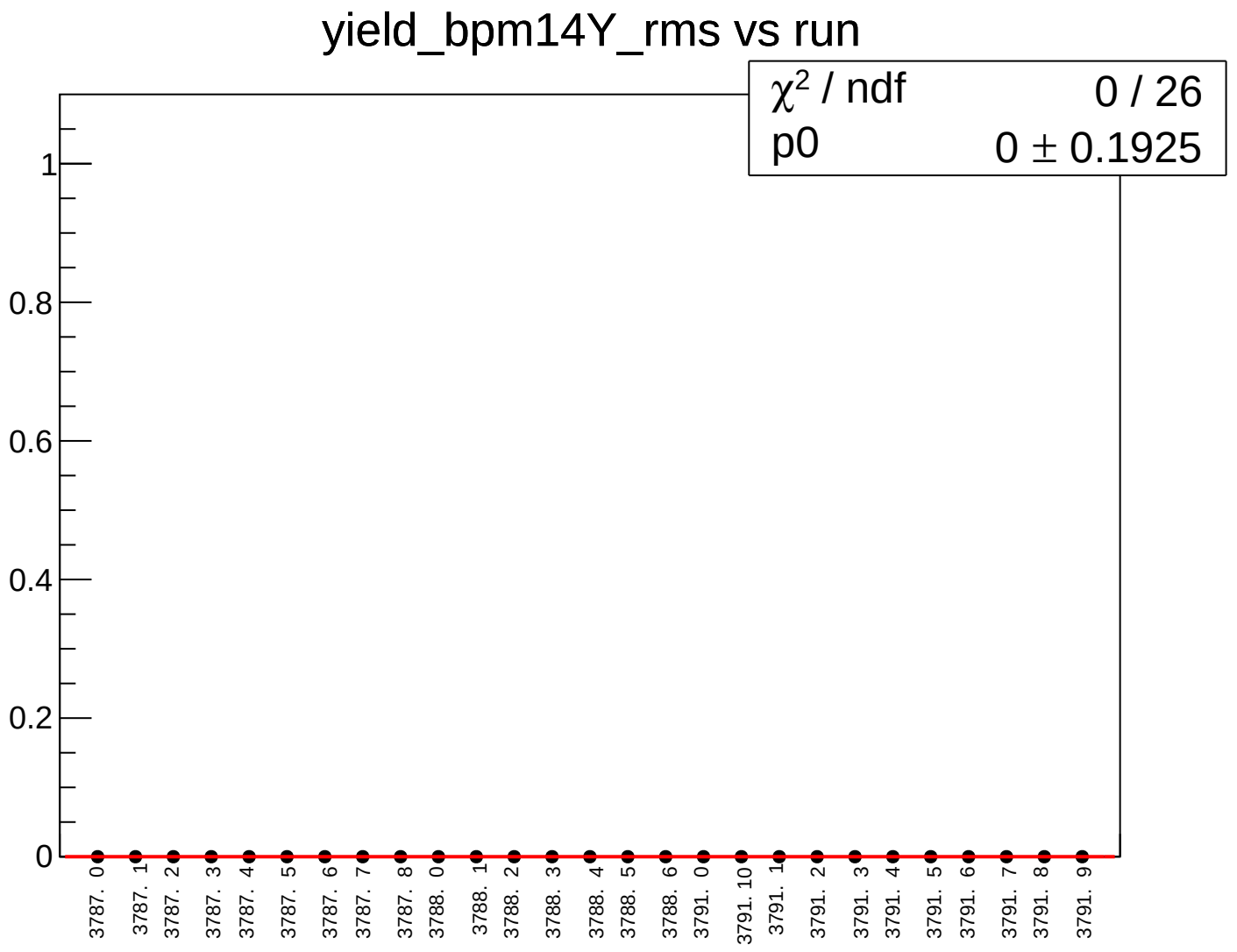

yield_bpm14X_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

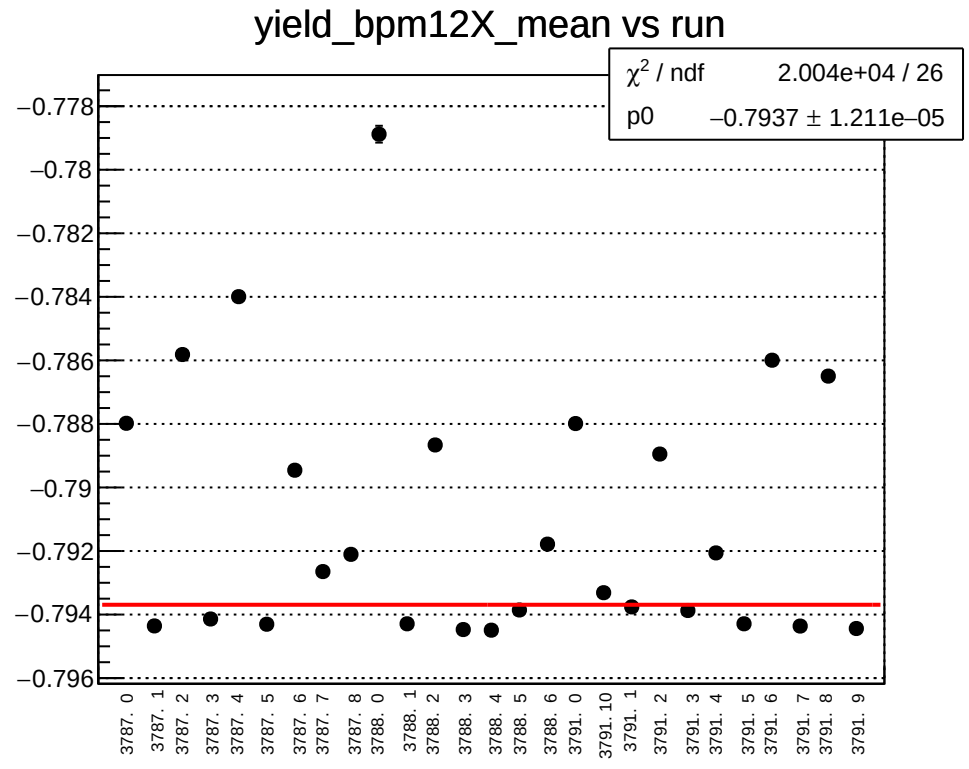

pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

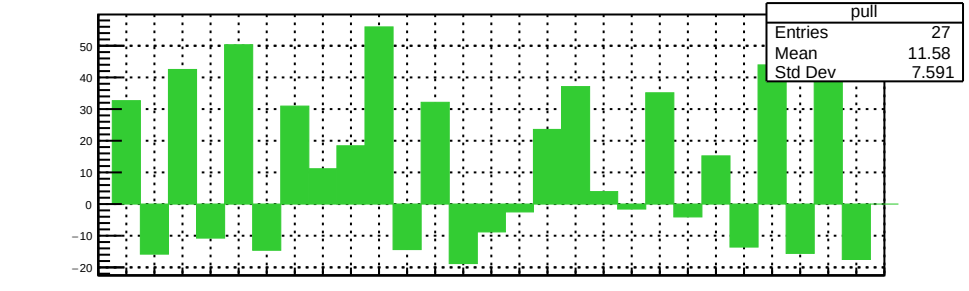

yield_bpm14X_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

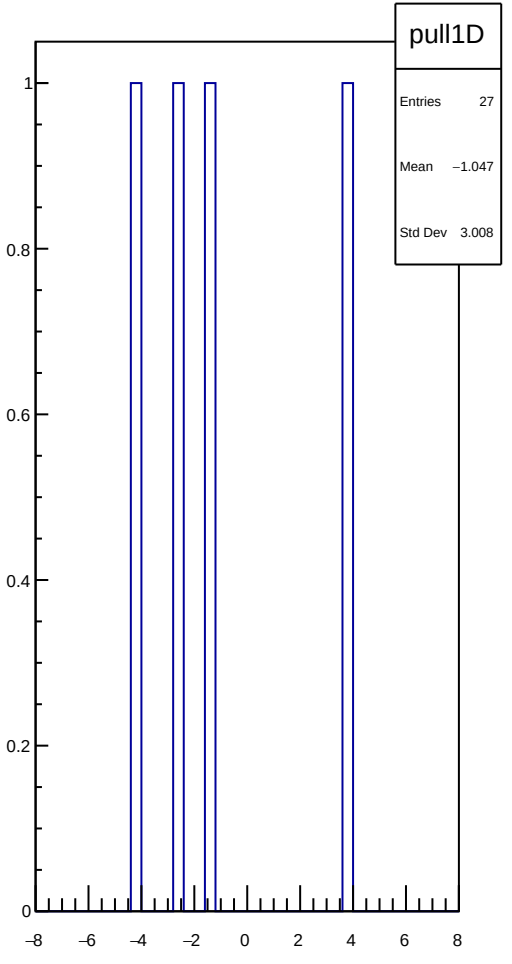

yield_bpm14Y_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 10
3787. 20
3787. 30
3787. 40
3787. 50
3787. 60
3787. 70
3787. 80
3788. 00
3788. 10
3788. 20
3788. 30
3788. 40
3788. 50
3788. 60
3791. 00
3791. 10
3791. 20
3791. 30
3791. 40
3791. 50
3791. 60
3791. 70
3791. 80
3791. 90

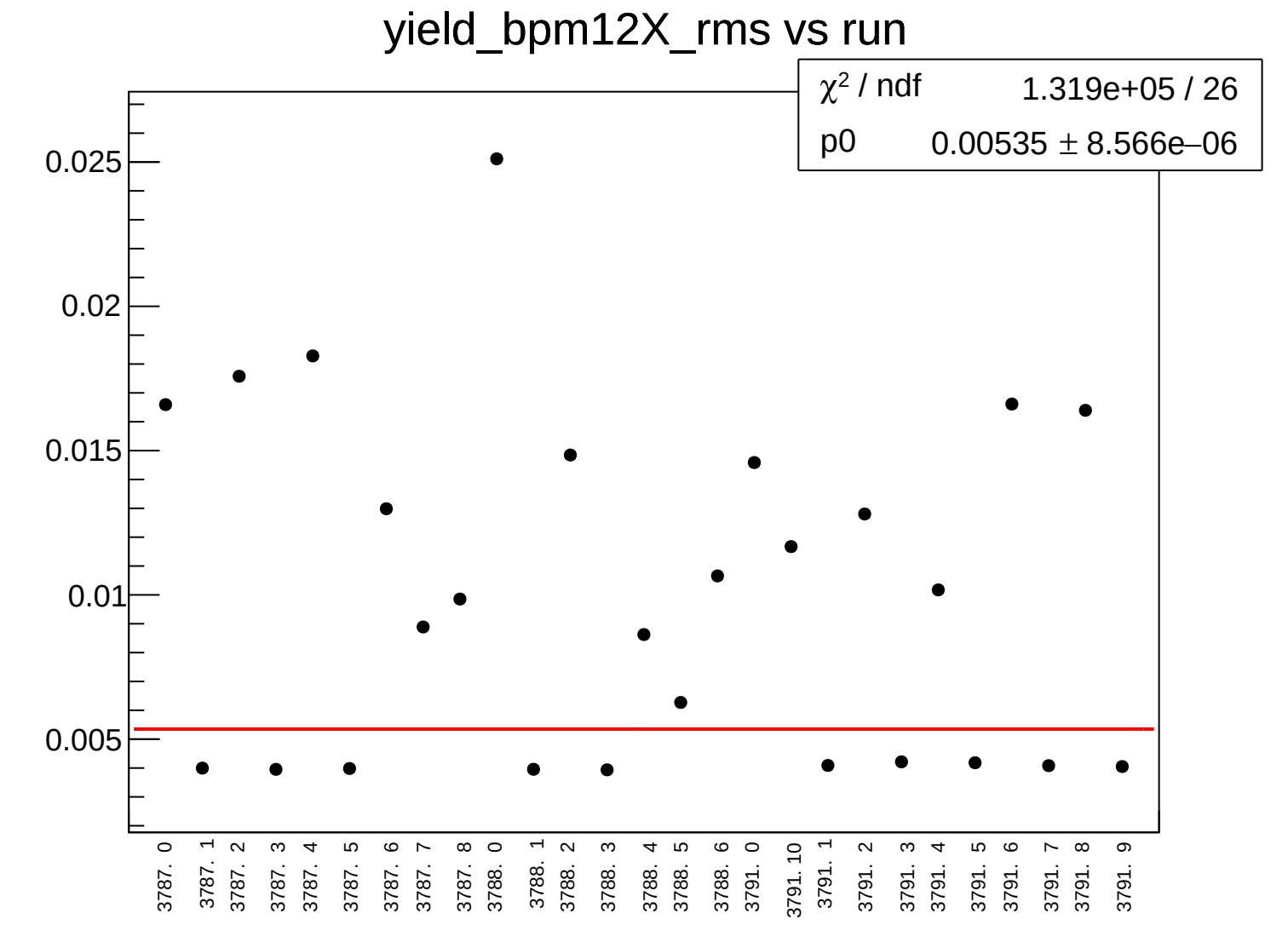

pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

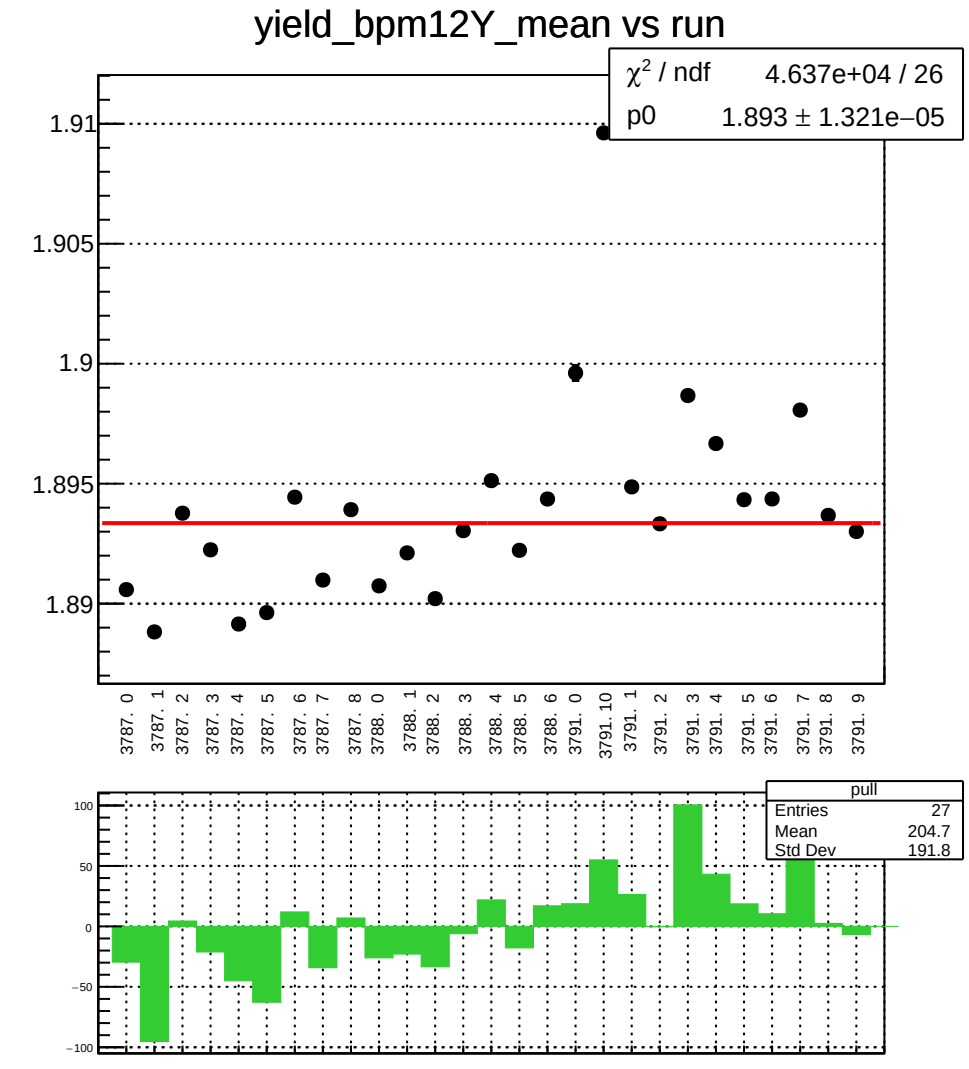

yield_bpm14Y_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

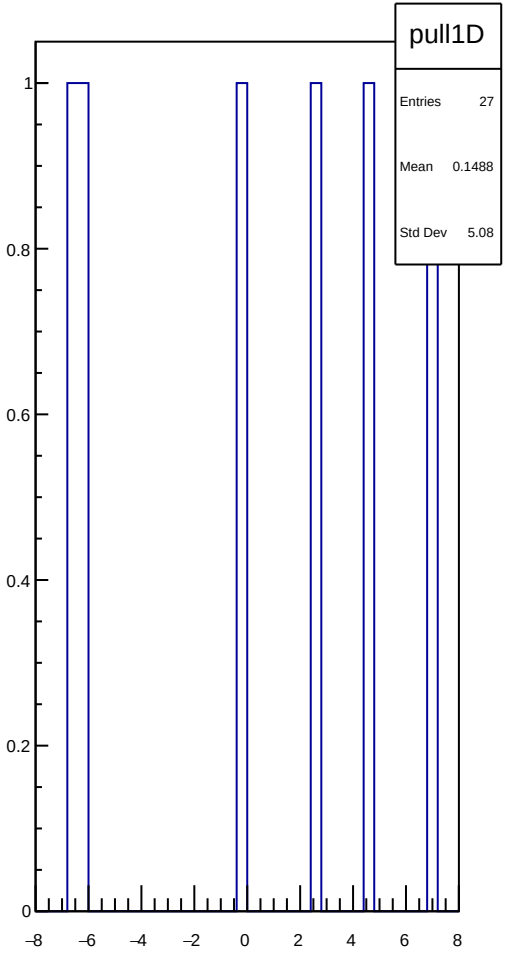

yield_bpm12X_mean vs run
χ² / ndf 2.004e+04 / 26
p0 −0.7937 ± 1.211e−05
−0.778
−0.78
−0.782
−0.784
−0.786
−0.788
−0.79
−0.792
−0.794
−0.796
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

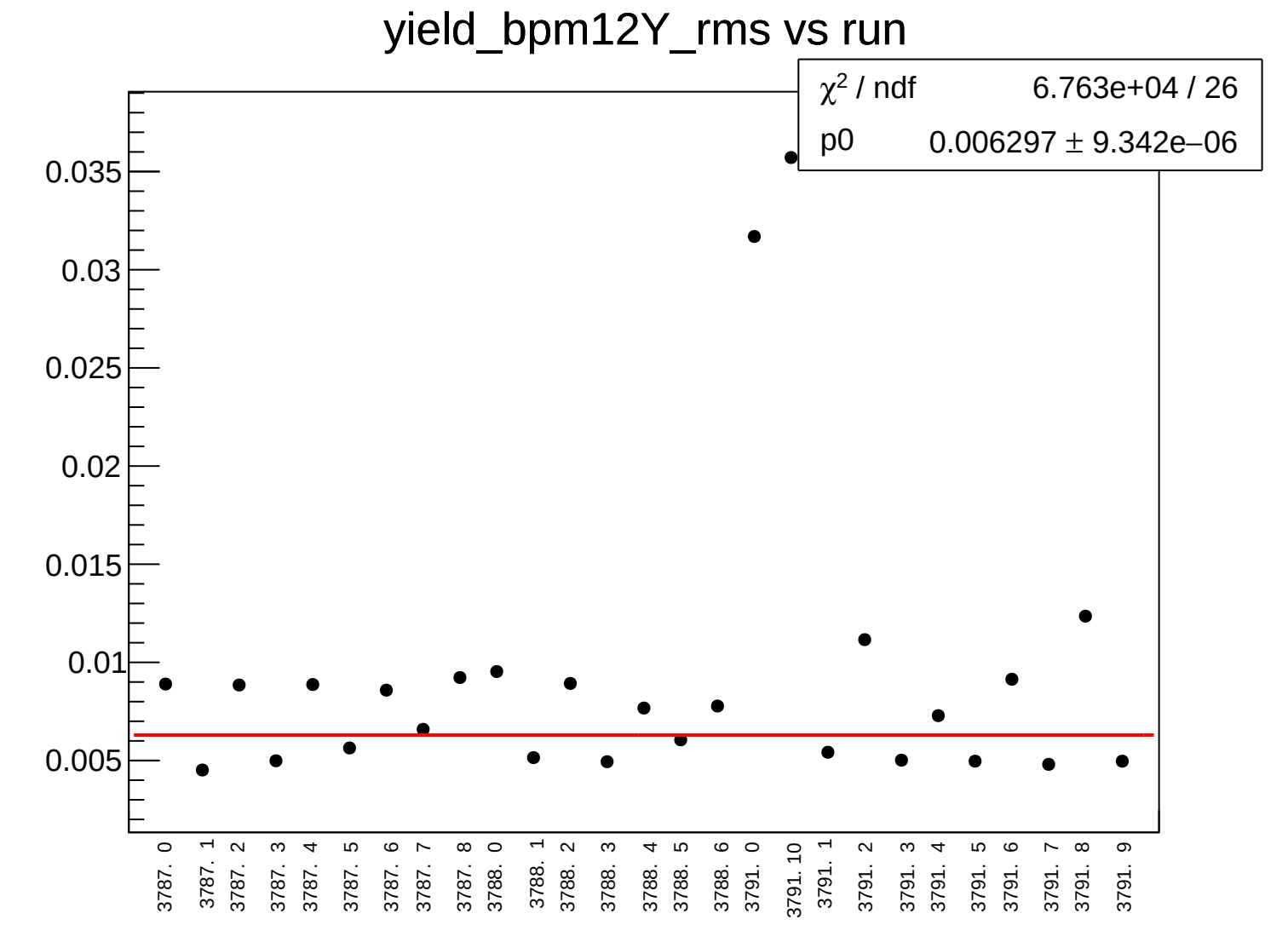

pull
Entries 27
Mean 11.58
Std Dev 7.591
50
40
30
20
10
0
−10
−20

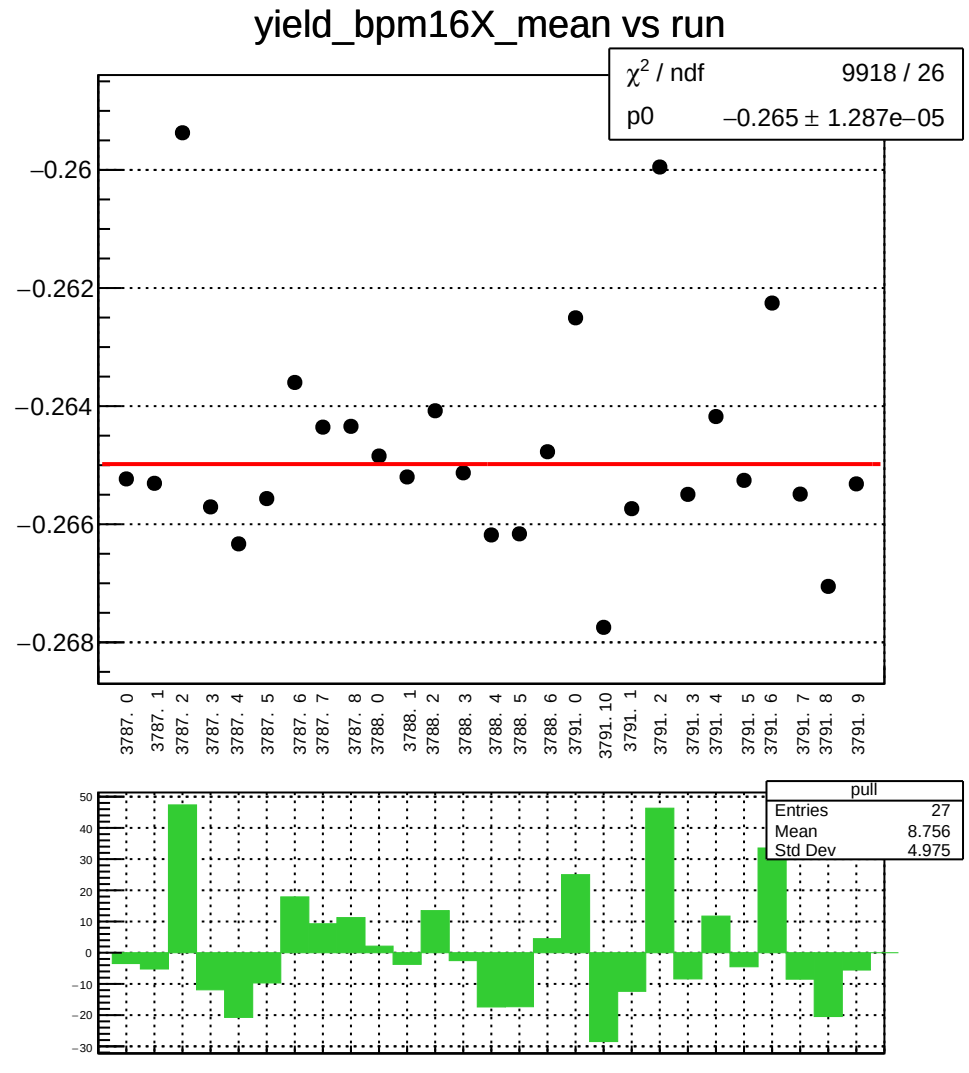

pull1D
Entries 27
Mean −1.047
Std Dev 3.008
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

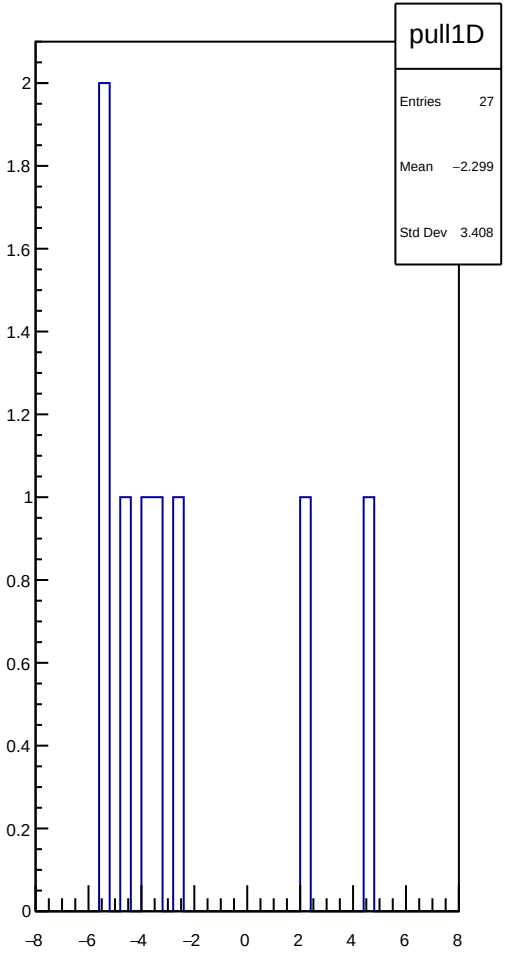

yield_bpm12X_rms vs run
χ² / ndf 1.319e+05 / 26
p0 0.00535 ± 8.566e–06
0.025
0.02
0.015
0.01
0.005
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

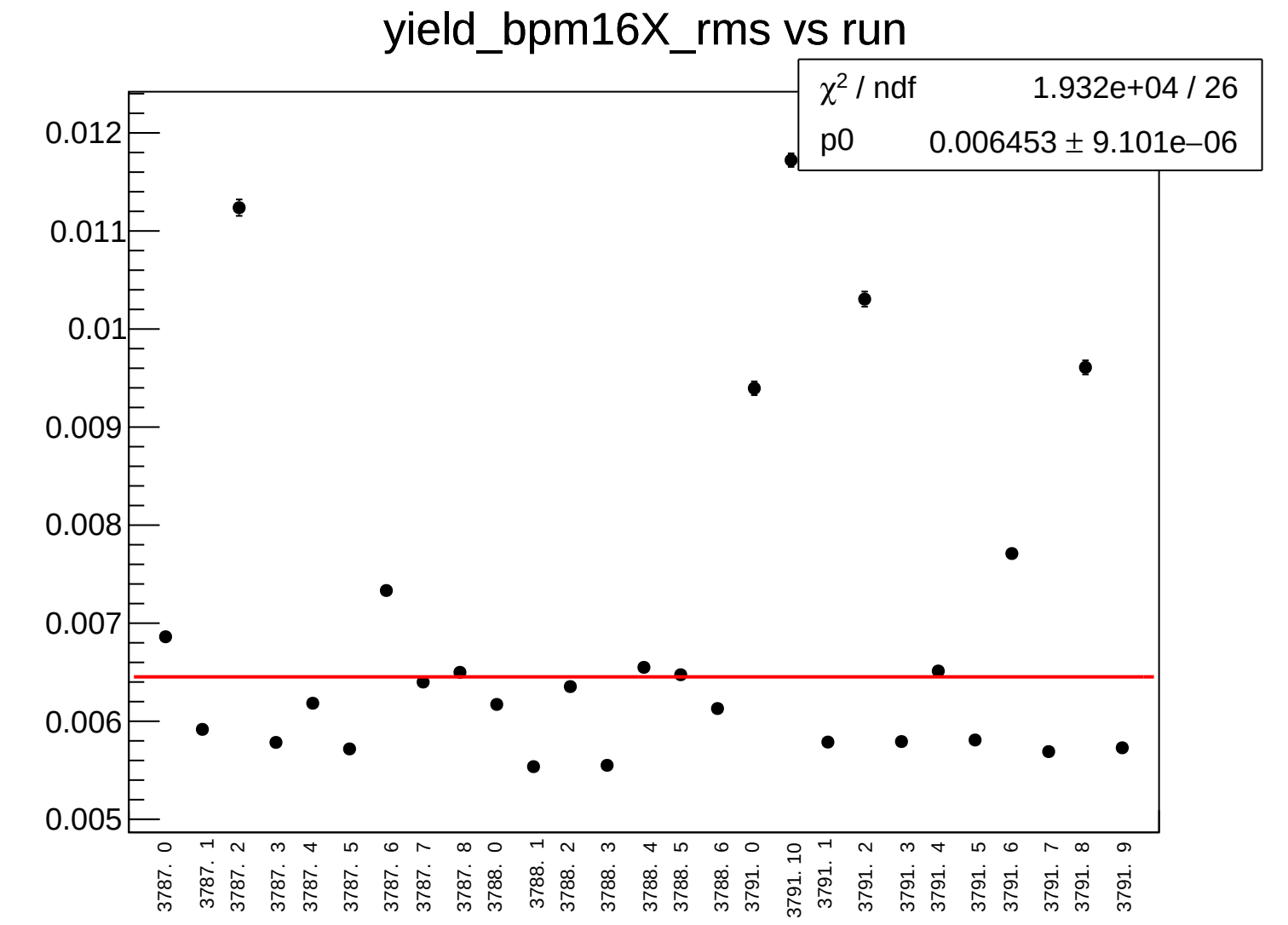

yield_bpm12Y_mean vs run
χ² / ndf 4.637e+04 / 26
p0 1.893 ± 1.321e−05
1.91
1.905
1.9
1.895
1.89
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 204.7
Std Dev 191.8
100
50
0
−50
−100

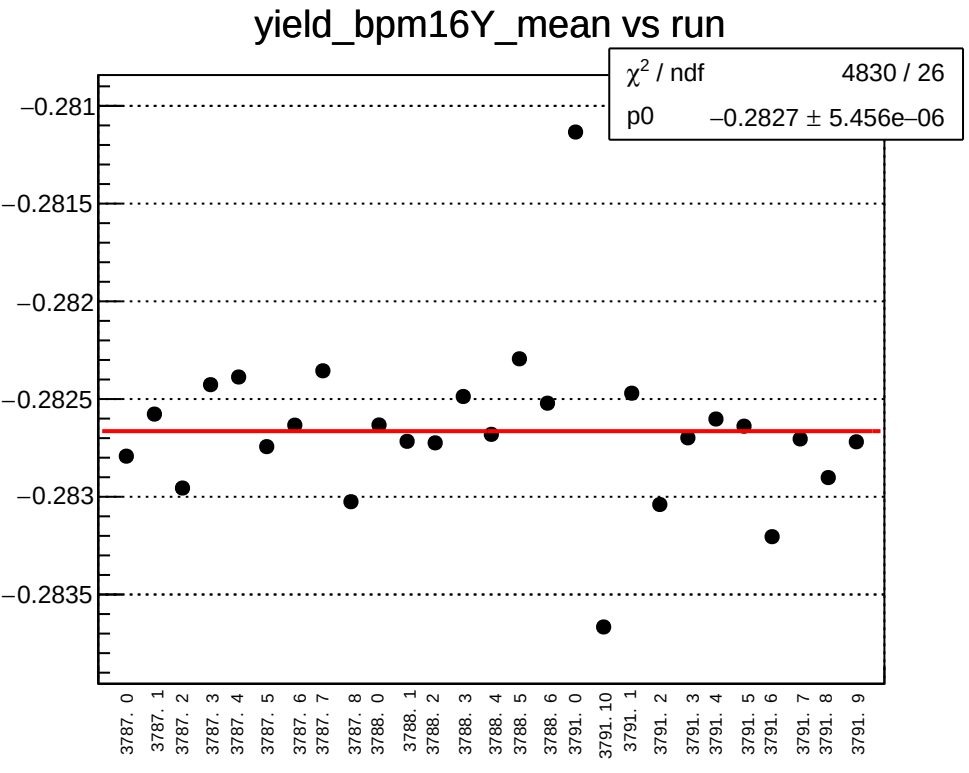

pull1D
Entries 27
Mean 0.1488
Std Dev 5.08
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

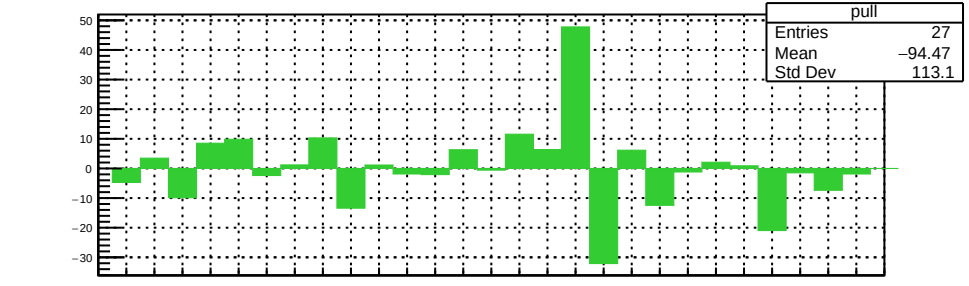

yield_bpm12Y_rms vs run
χ² / ndf 6.763e+04 / 26
p0 0.006297 ± 9.342e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

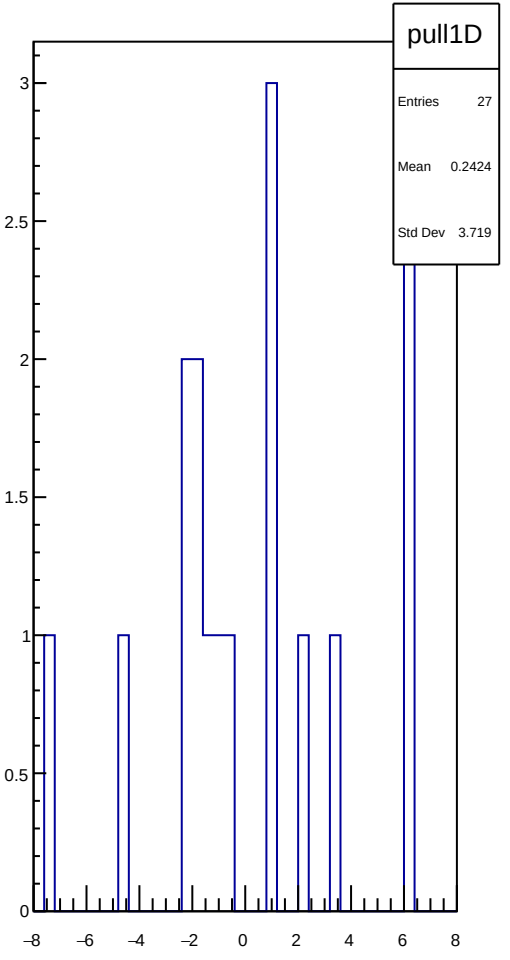

yield_bpm16X_mean vs run
χ² / ndf 9918 / 26
p0 −0.265 ± 1.287e−05
−0.26
−0.262
−0.264
−0.266
−0.268
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 8.756
Std Dev 4.975
50
40
30
20
10
0
−10
−20
−30

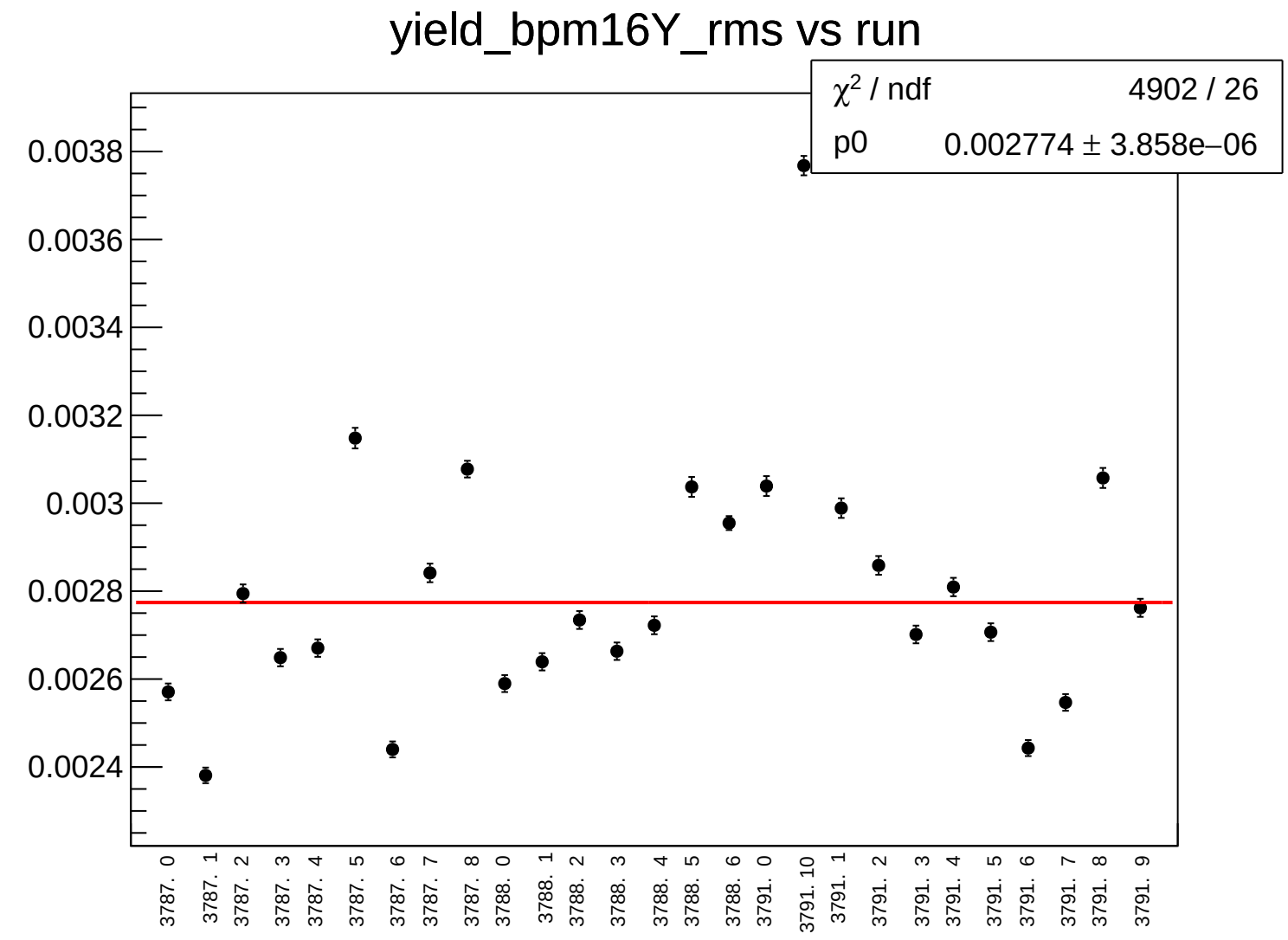

pull1D
Entries 27
Mean −2.299
Std Dev 3.408
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

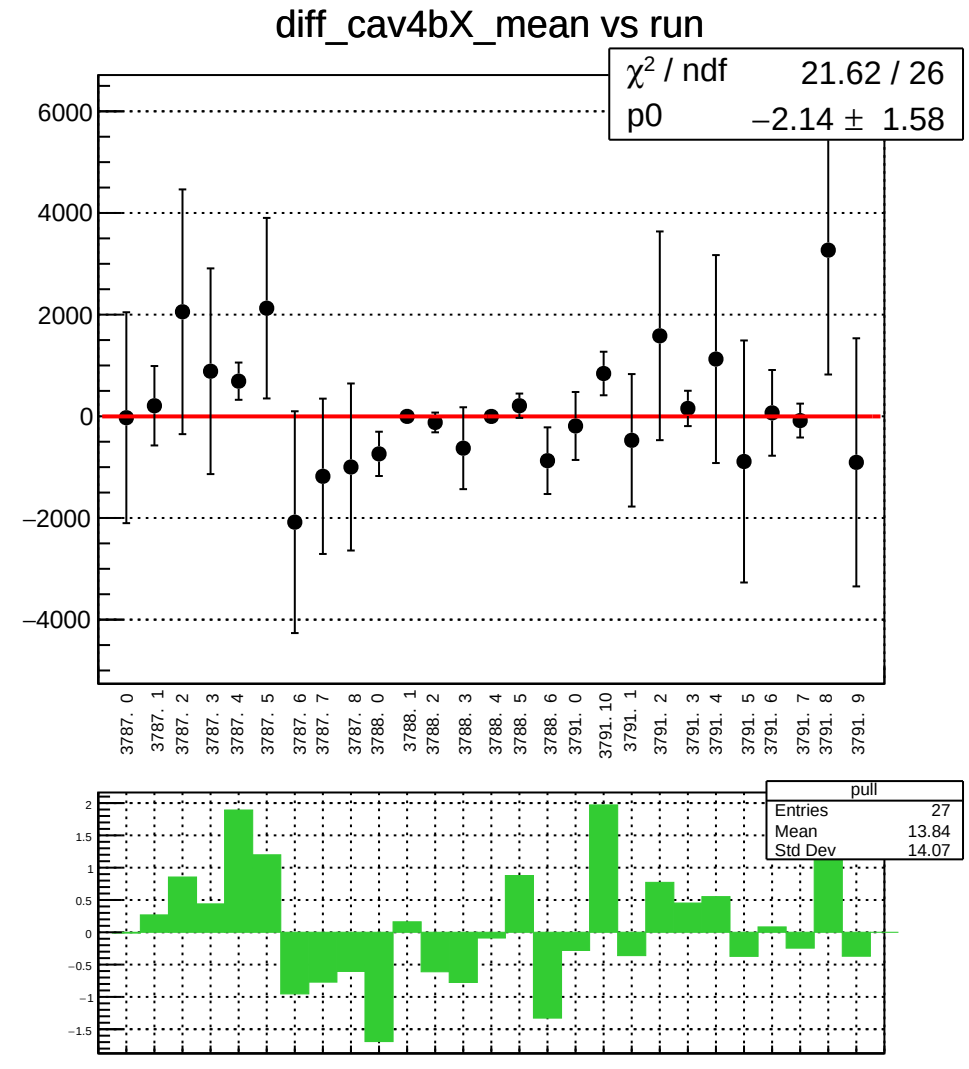

yield_bpm16X_rms vs run
χ² / ndf 1.932e+04 / 26
p0 0.006453 ± 9.101e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

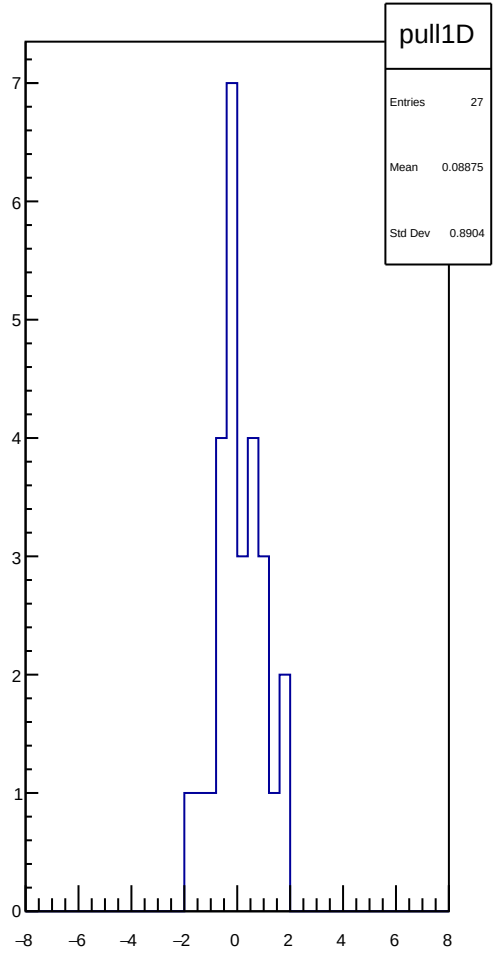

yield_bpm16Y_mean vs run
χ² / ndf 4830 / 26
p0 −0.2827 ± 5.456e−06
−0.281
−0.2815
−0.282
−0.2825
−0.283
−0.2835
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

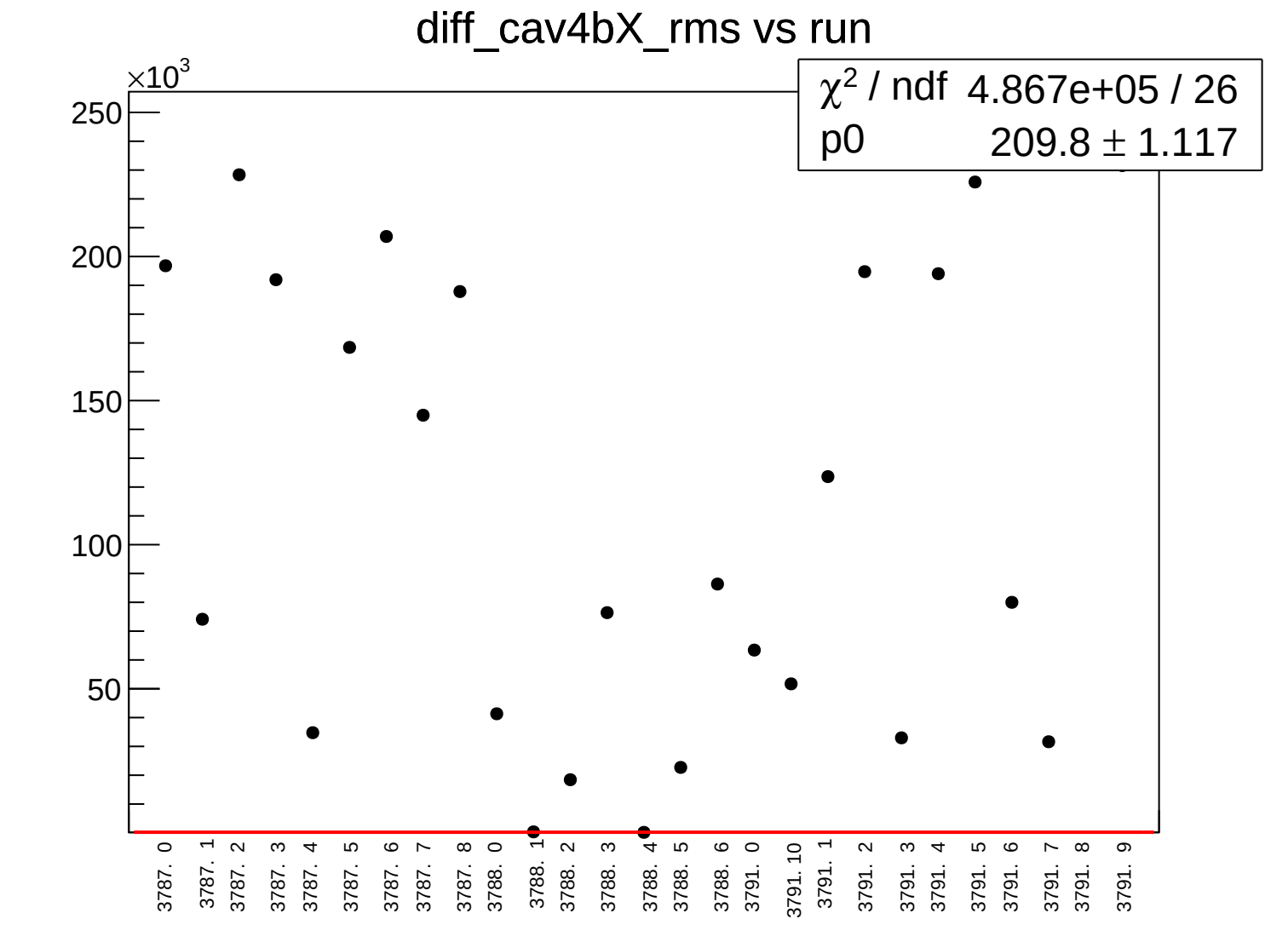

pull
Entries 27
Mean −94.47
Std Dev 113.1
50
40
30
20
10
0
−10
−20
−30

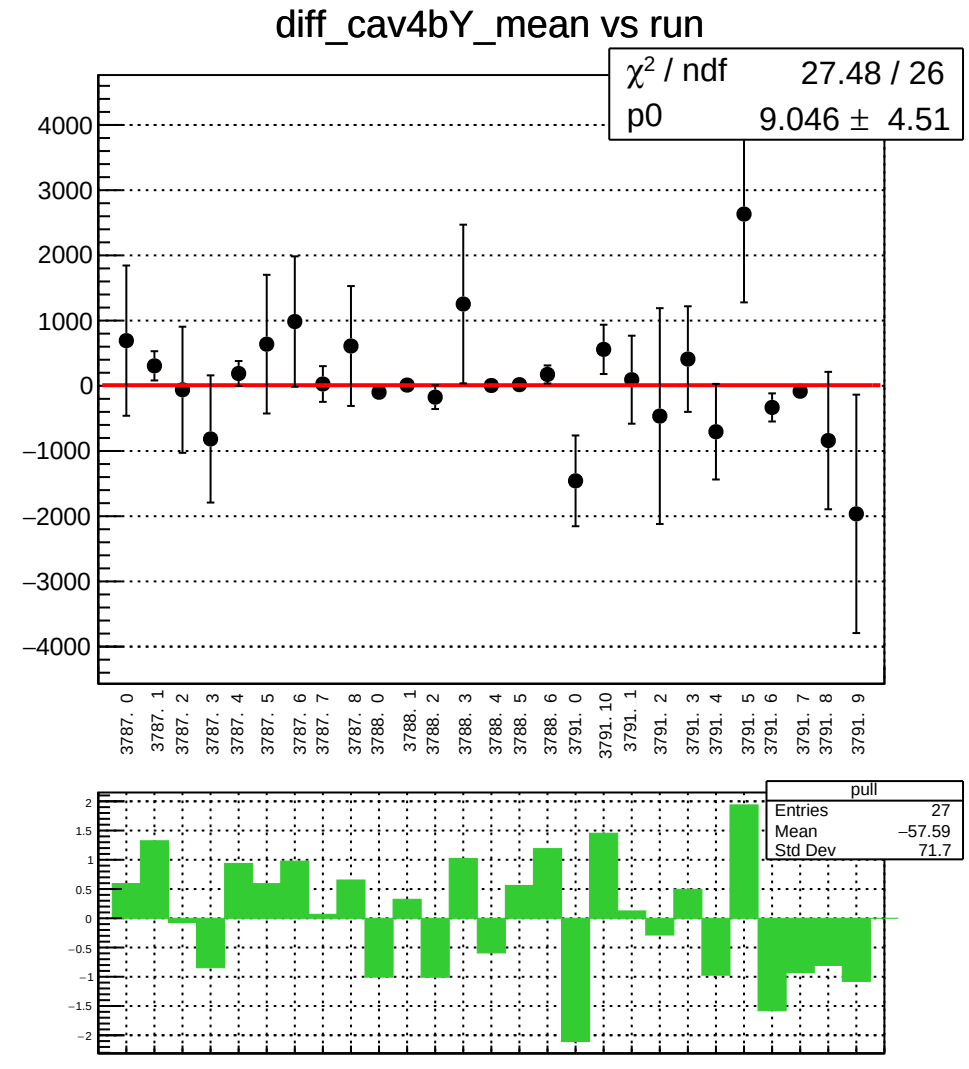

pull1D
Entries 27
Mean 0.2424
Std Dev 3.719
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

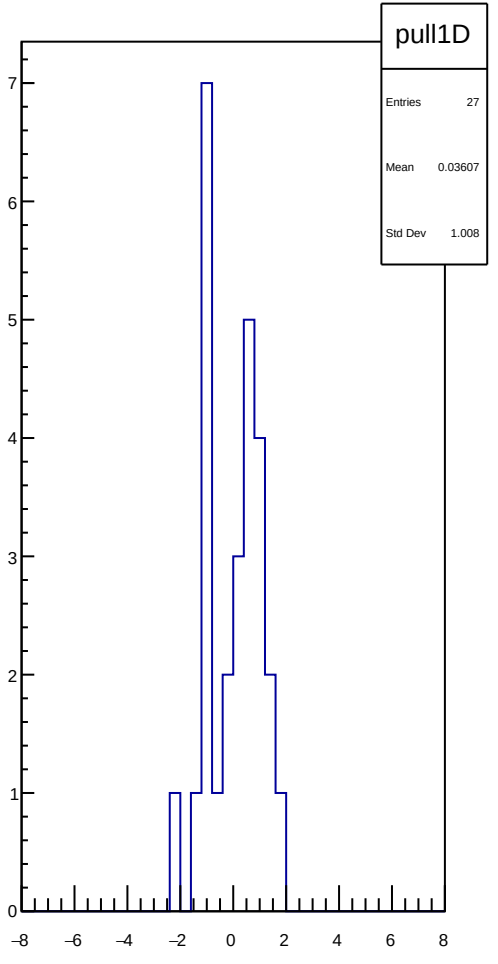

yield_bpm16Y_rms vs run
χ² / ndf 4902 / 26
p0 0.002774 ± 3.858e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

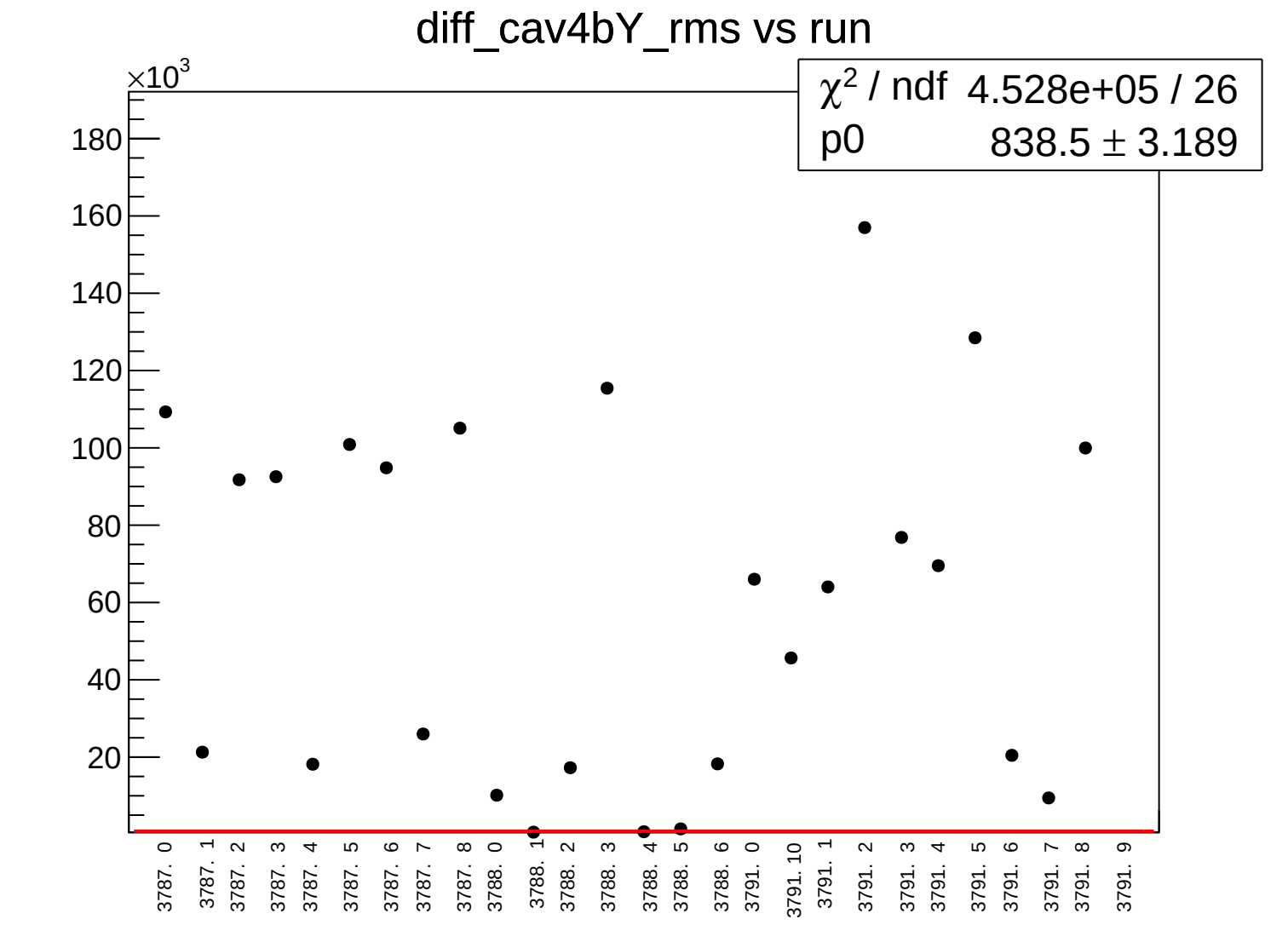

diff_cav4bX_mean vs run
χ² / ndf 21.62 / 26
p0 −2.14 ± 1.58
6000
4000
2000
0
−2000
−4000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 13.84
Std Dev 14.07
2
1.5
1
0.5
0
−0.5
−1
−1.5

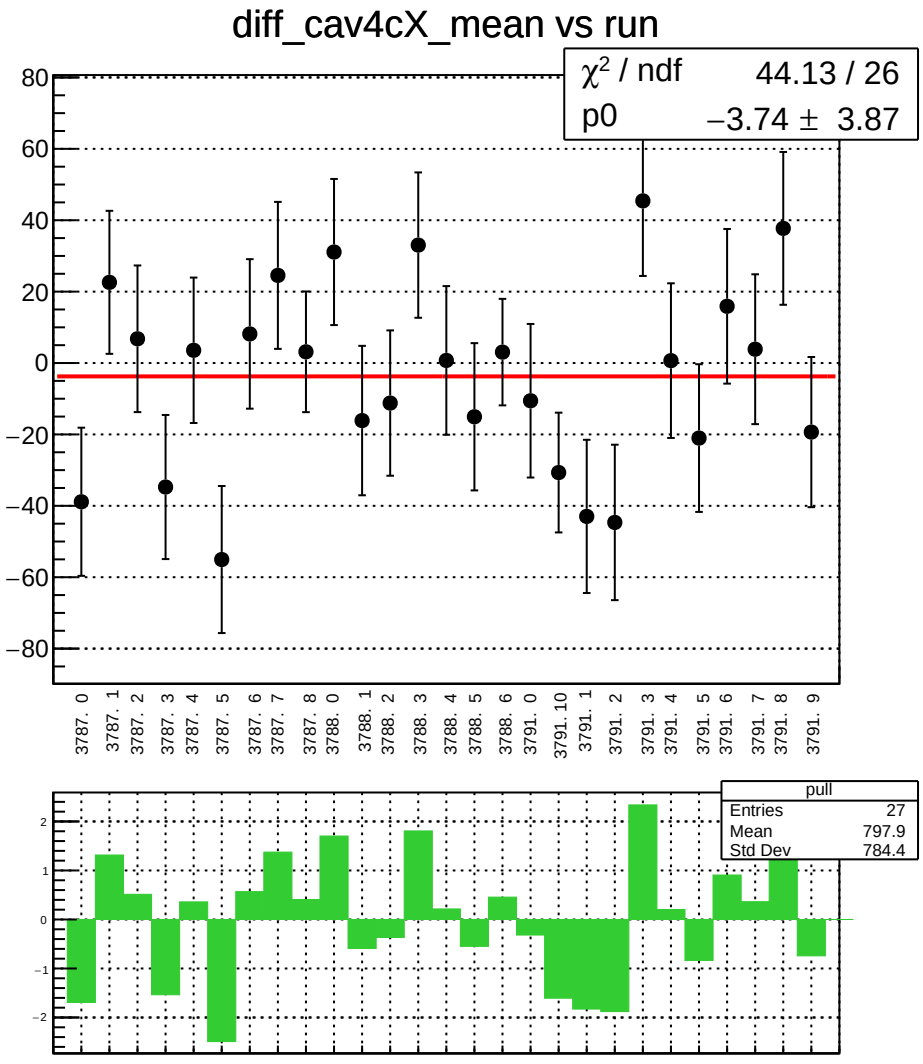

pull1D
Entries 27
Mean 0.08875
Std Dev 0.8904
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

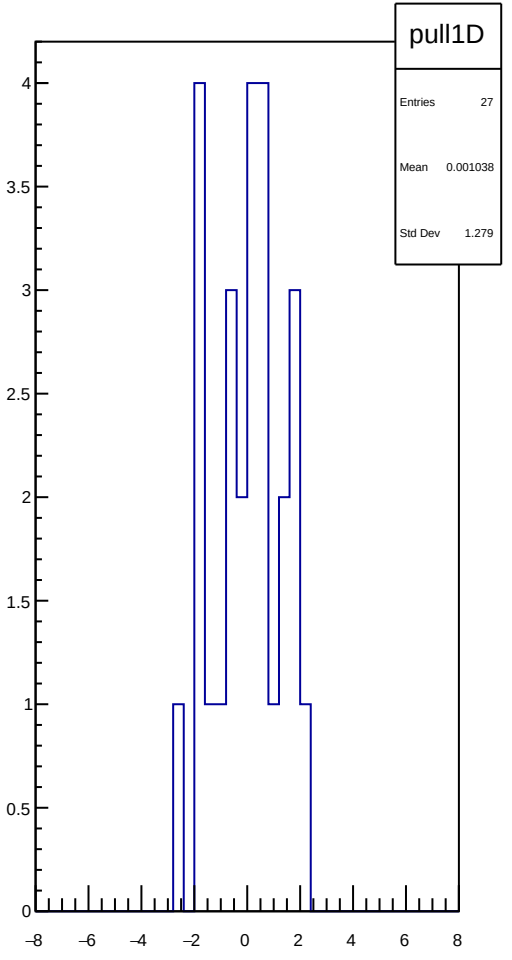

diff_cav4bX_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 4.867e+05 / 26
p0 209.8 ± 1.117
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

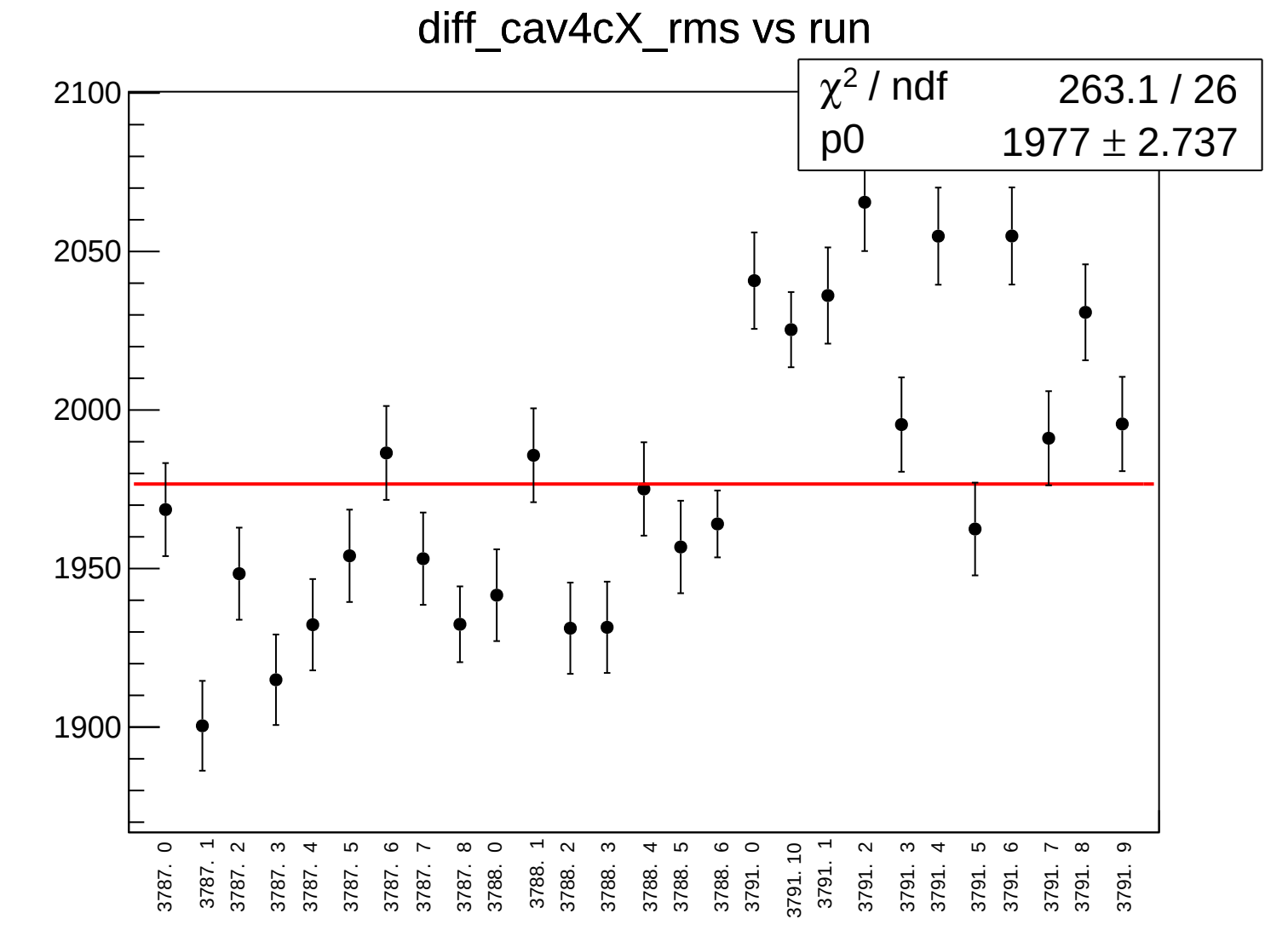

diff_cav4bY_mean vs run
χ² / ndf 27.48 / 26
p0 9.046 ± 4.51
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −57.59
Std Dev 71.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

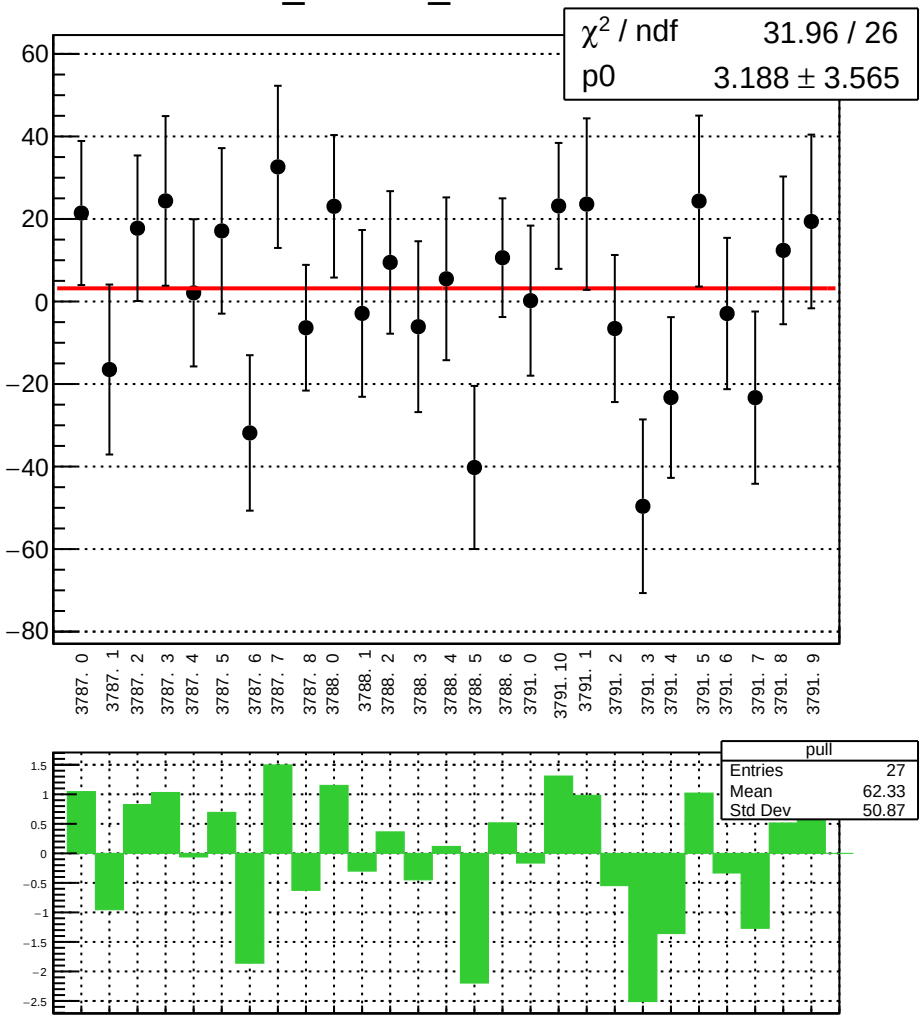

pull1D
Entries 27
Mean 0.03607
Std Dev 1.008
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

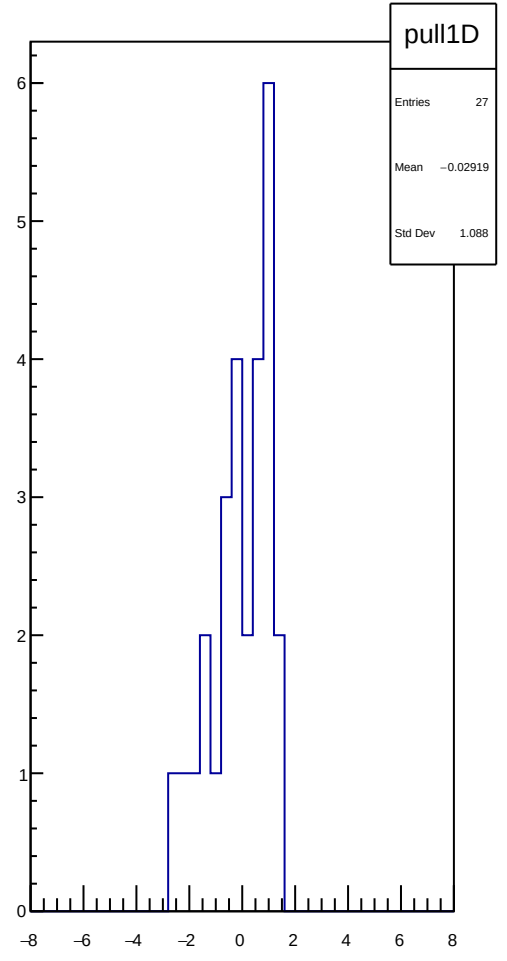

diff_cav4bY_rms vs run
×10^3
χ^2 / ndf 4.528e+05 / 26
p0 838.5 ± 3.189
180
160
140
120
100
80
60
40
20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

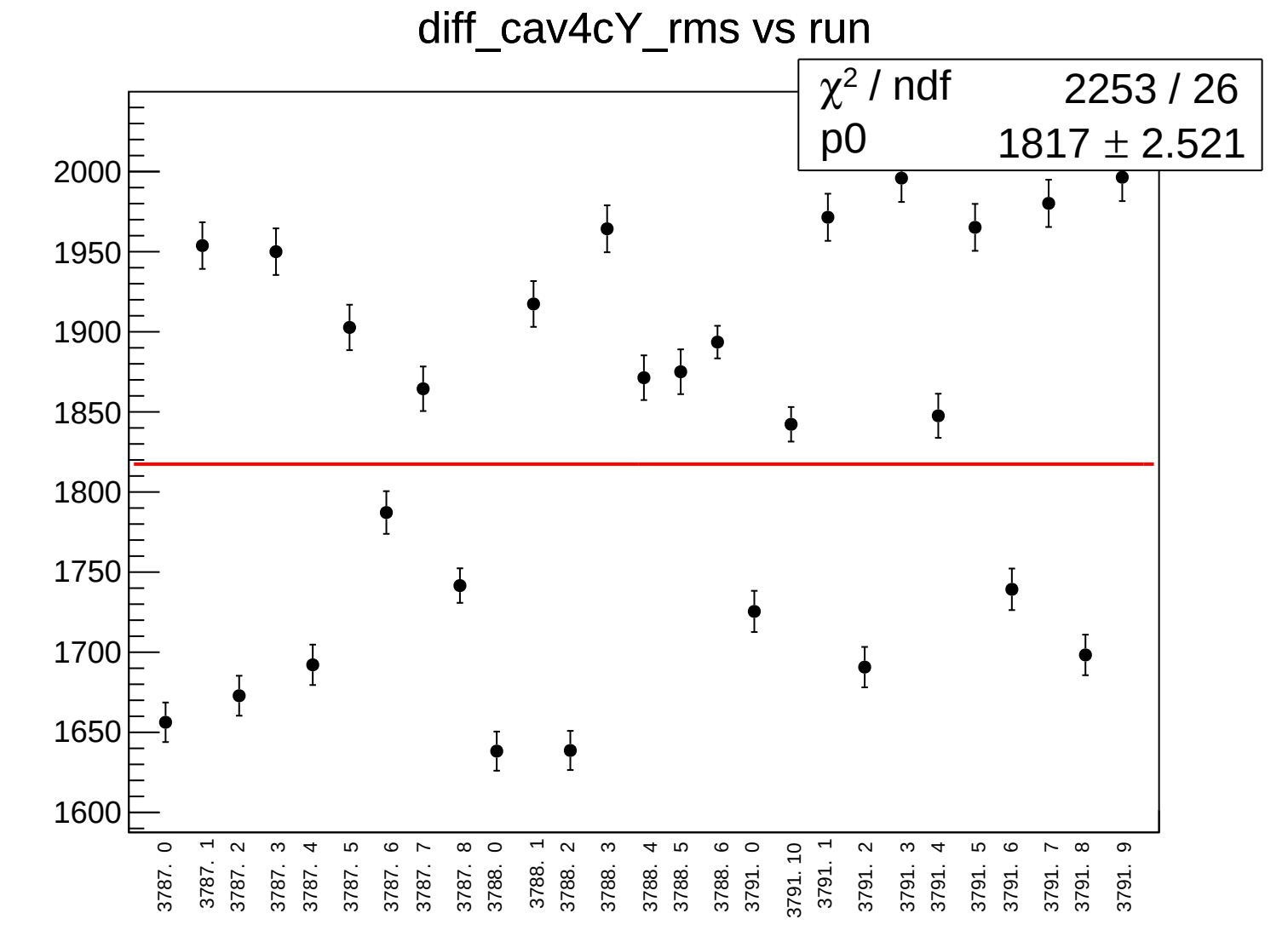

diff_cav4cX_mean vs run
χ² / ndf 44.13 / 26
p0 −3.74 ± 3.87
80
60
40
20
0
−20
−40
−60
−80
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 797.9
Std Dev 784.4
2
1
0
−1
−2

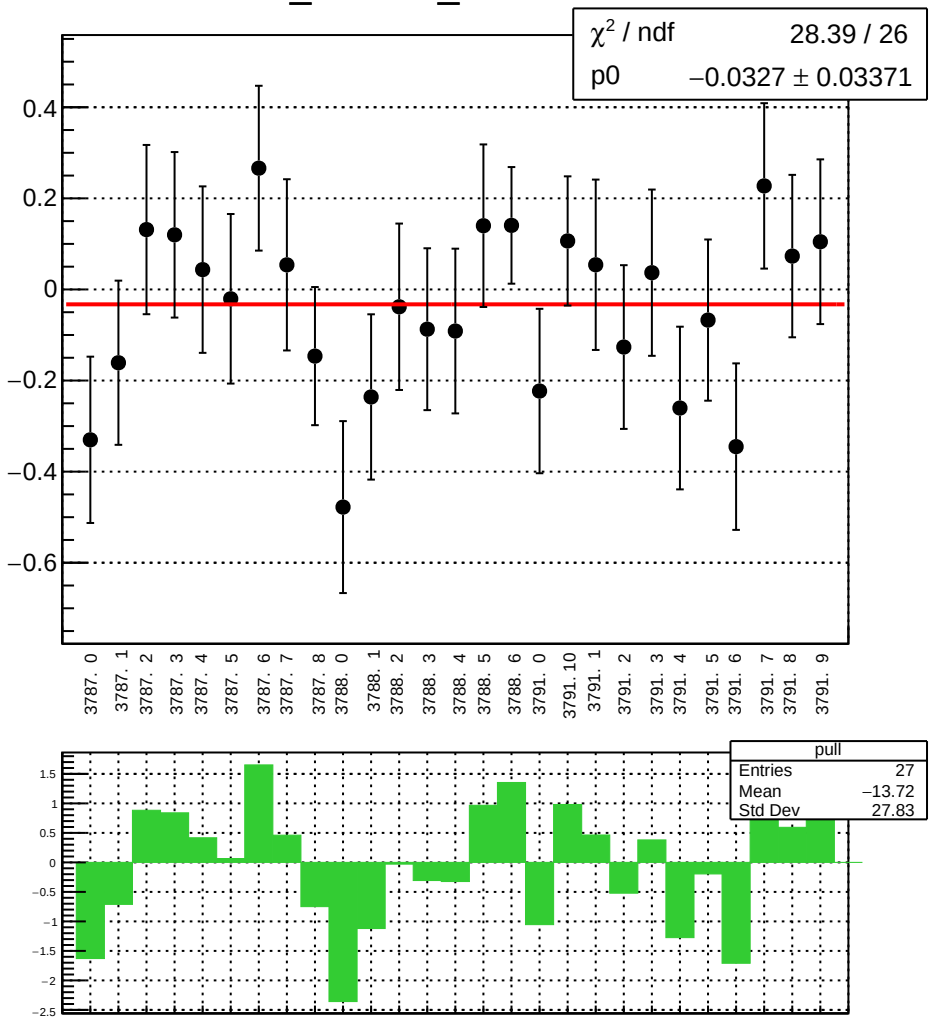

pull1D
Entries 27
Mean 0.001038
Std Dev 1.279
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

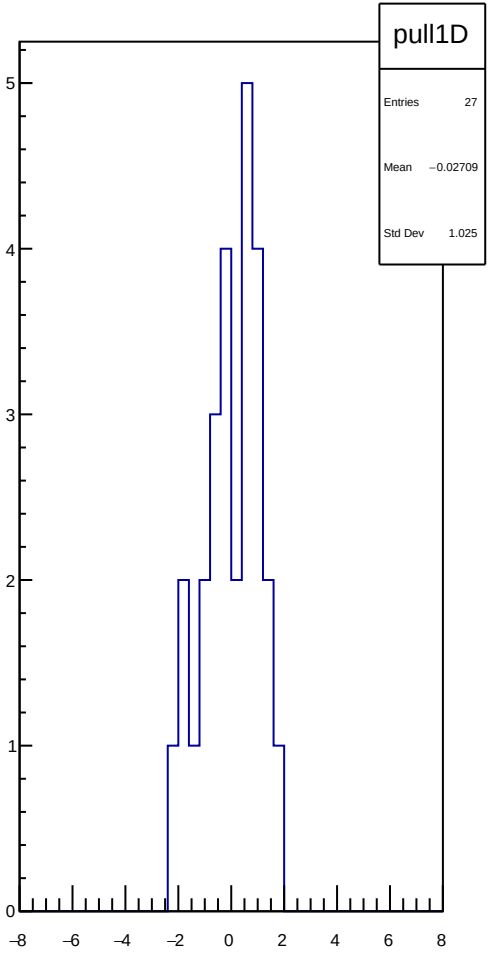

diff_cav4cX_rms vs run
χ² / ndf 263.1 / 26
p0 1977 ± 2.737
2100
2050
2000
1950
1900
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

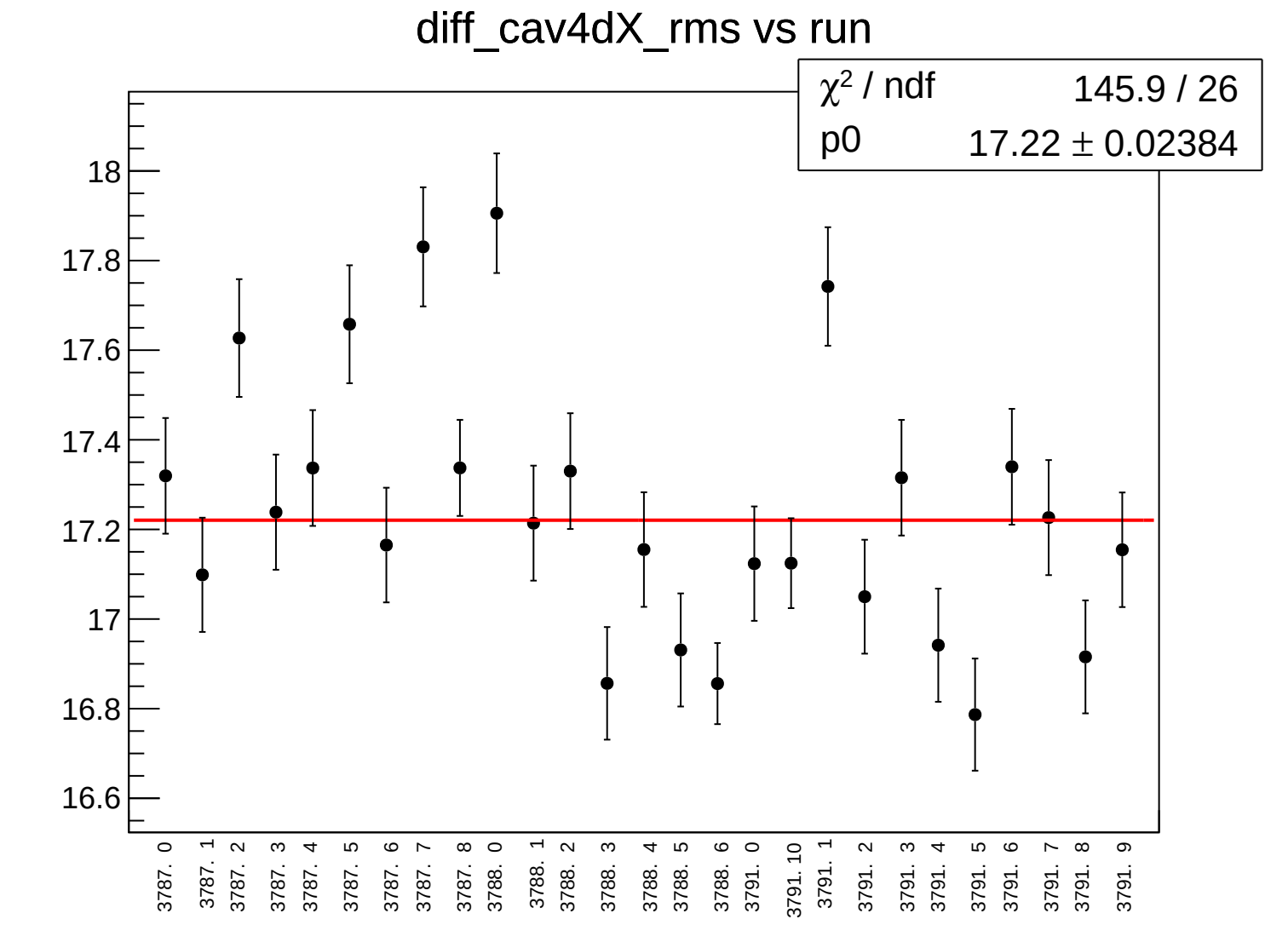

diff_cav4cY_mean vs run
χ² / ndf 31.96 / 26
p0 3.188 ± 3.565
60
40
20
0
−20
−40
−60
−80
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 62.33
Std Dev 50.87
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

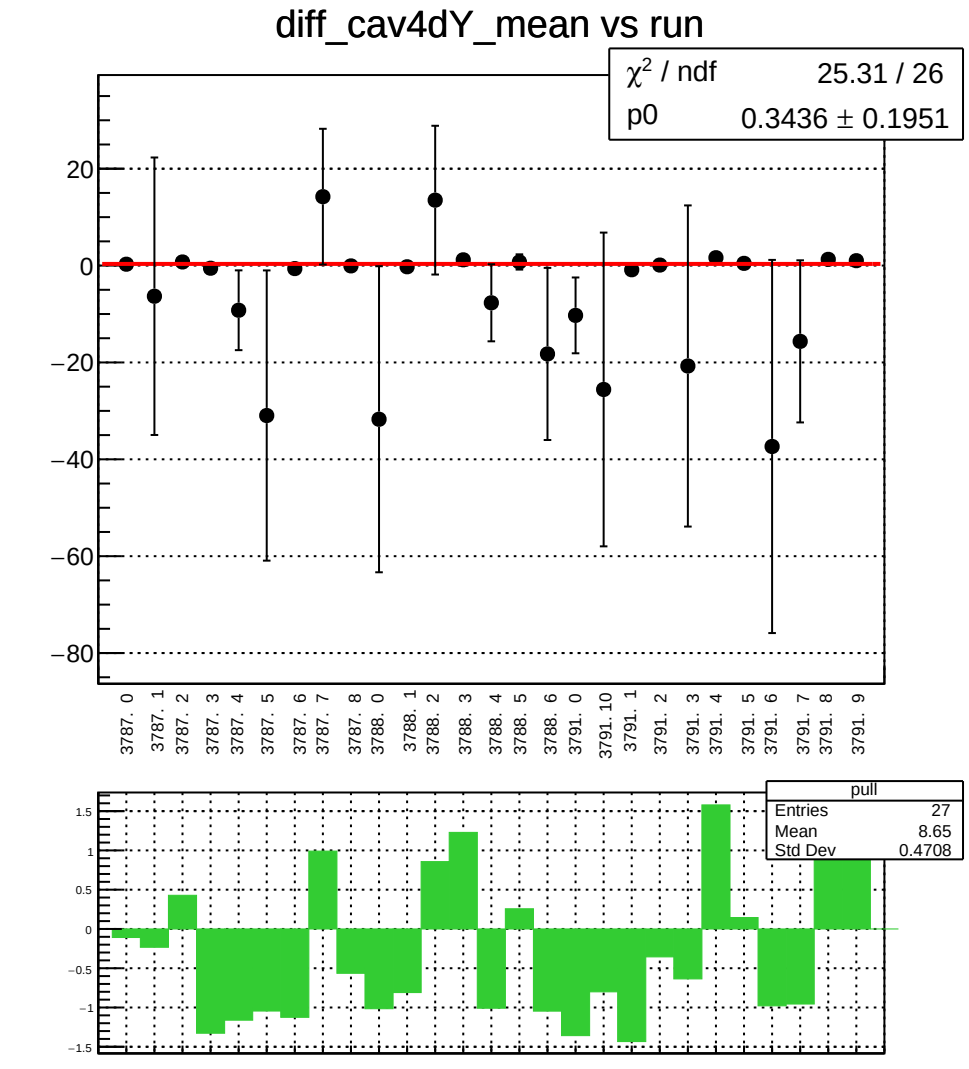

pull1D
Entries 27
Mean −0.02919
Std Dev 1.088
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

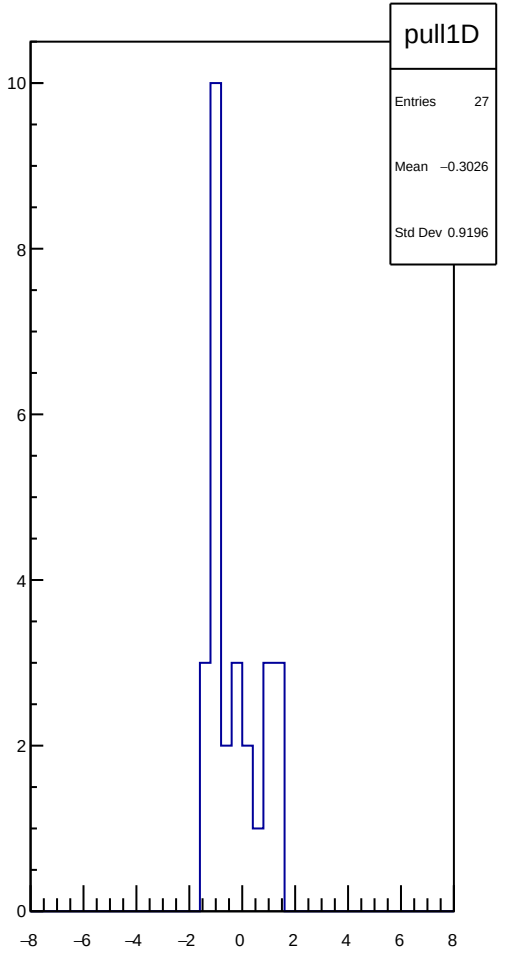

diff_cav4cY_rms vs run
χ² / ndf 2253 / 26
p0 1817 ± 2.521
2000
1950
1900
1850
1800
1750
1700
1650
1600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

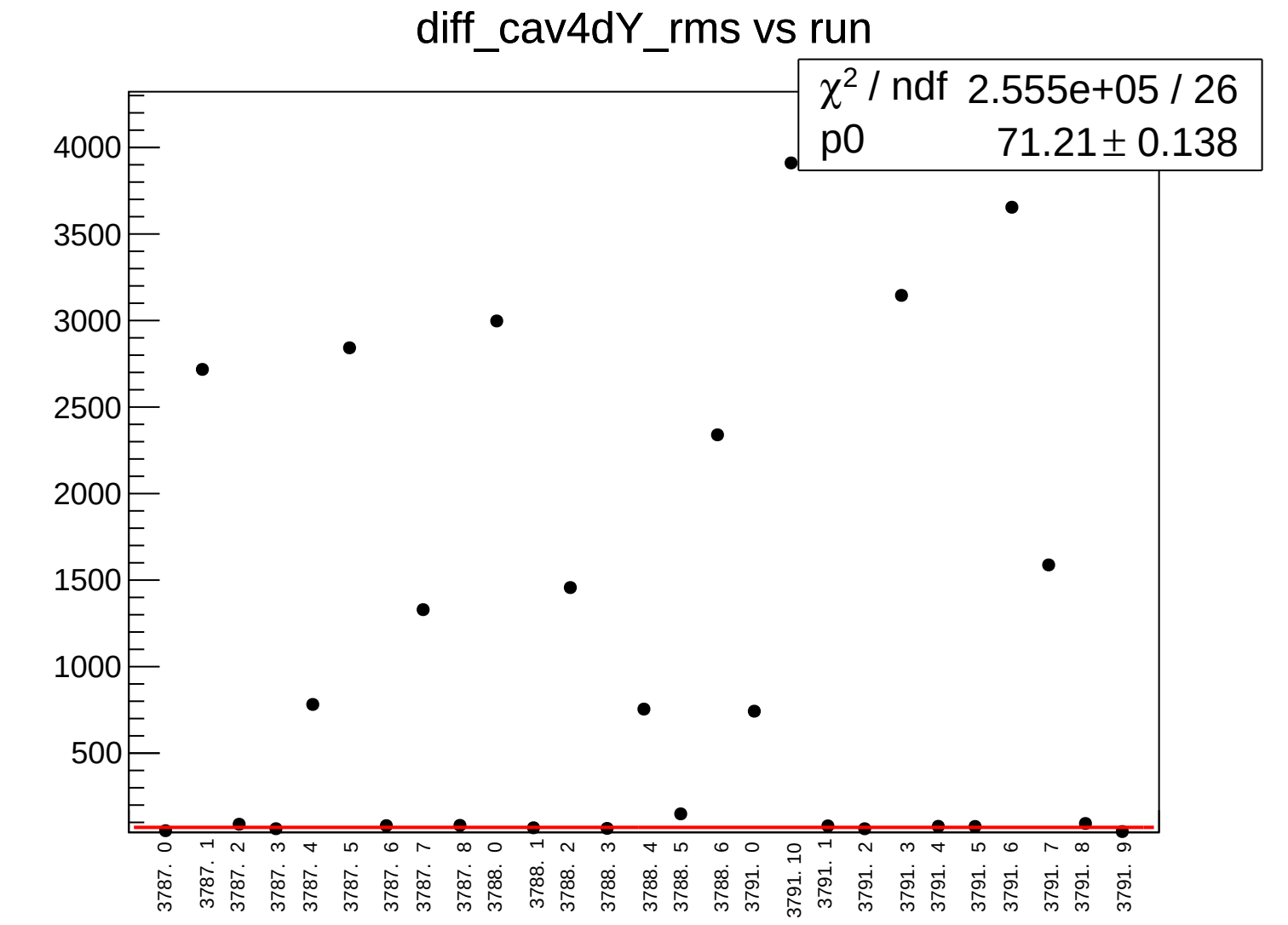

diff_cav4dX_mean vs run
χ² / ndf 28.39 / 26
p0 −0.0327 ± 0.03371
0.4
0.2
0
−0.2
−0.4
−0.6
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −13.72
Std Dev 27.83
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

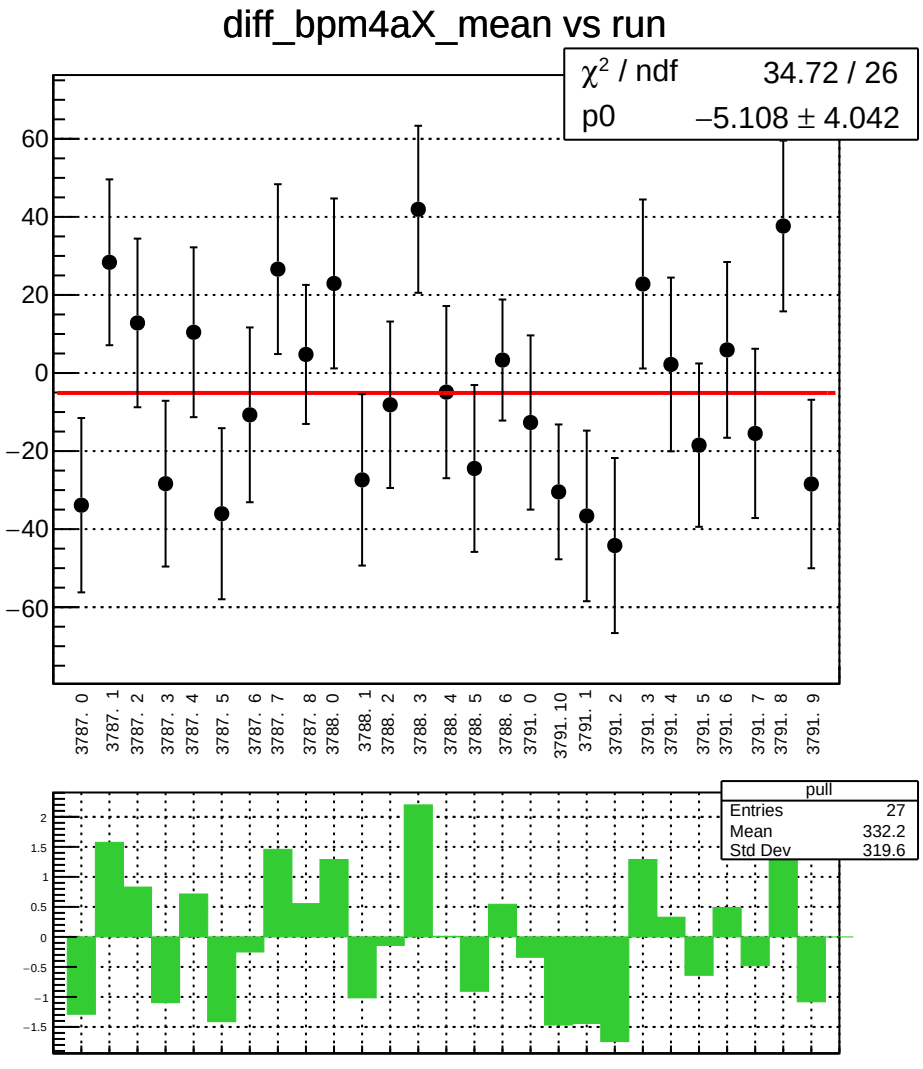

pull1D
Entries 27
Mean −0.02709
Std Dev 1.025
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

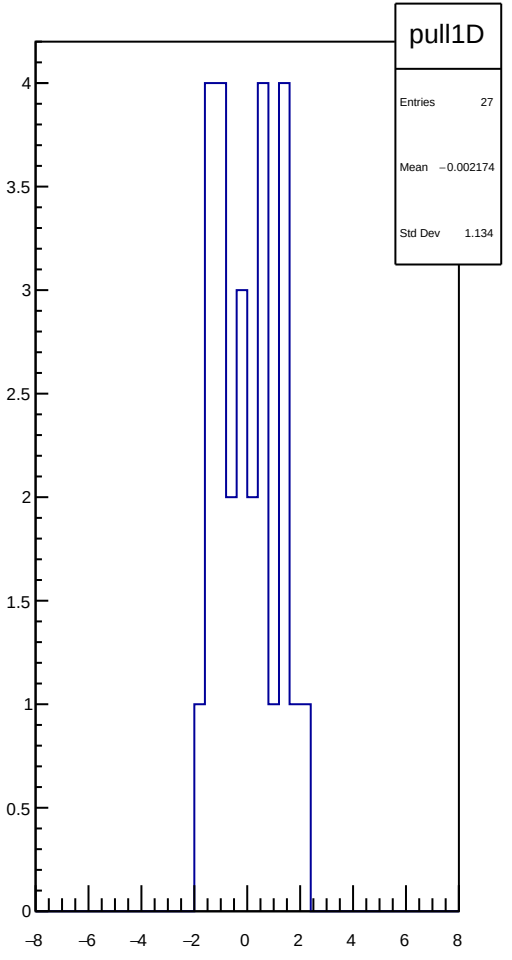

diff_cav4dX_rms vs run
χ² / ndf 145.9 / 26
p0 17.22 ± 0.02384
18
17.8
17.6
17.4
17.2
17
16.8
16.6
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

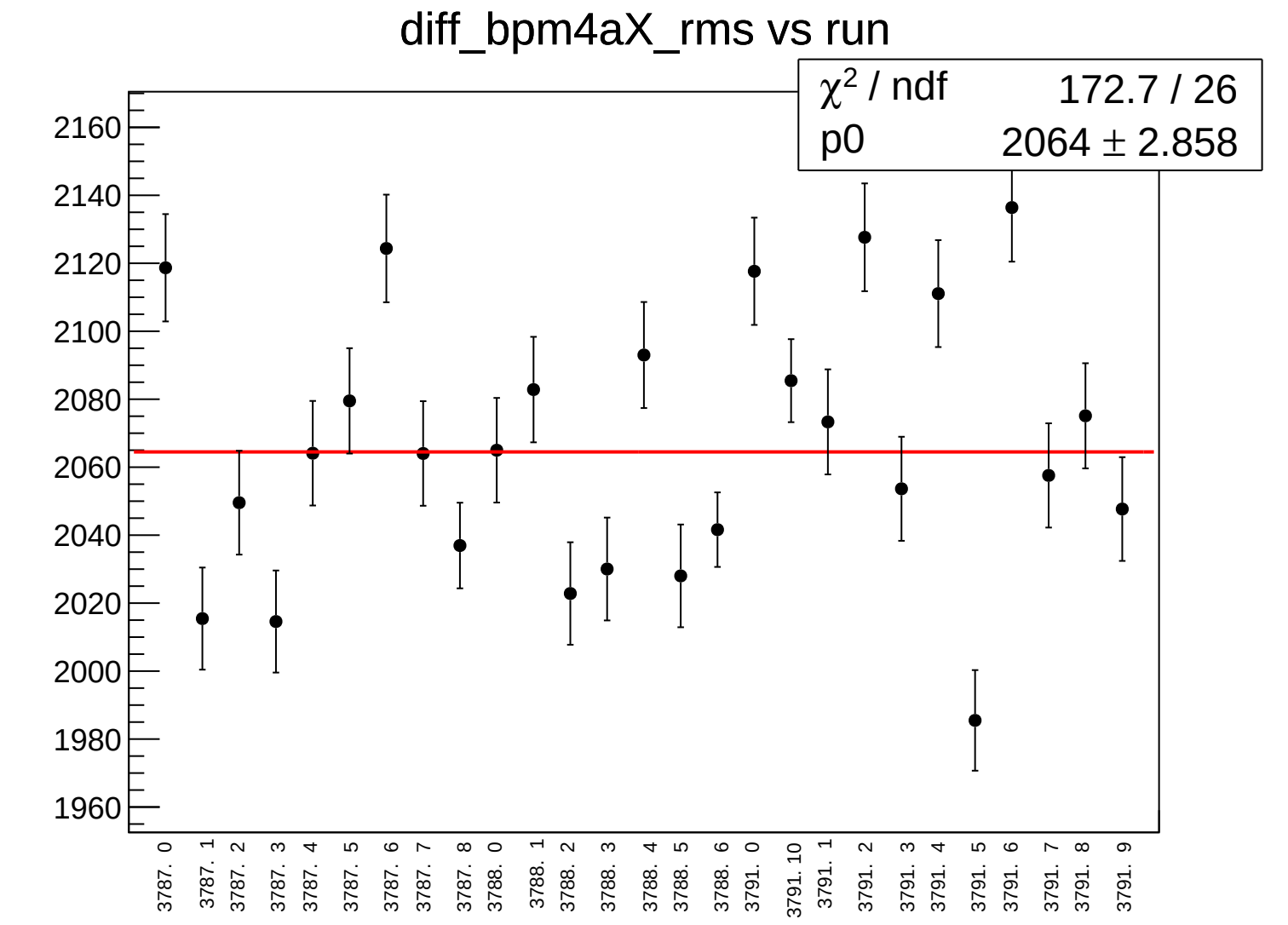

diff_cav4dY_mean vs run
χ² / ndf 25.31 / 26
p0 0.3436 ± 0.1951
20
0
−20
−40
−60
−80
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 8.65
Std Dev 0.4708
1.5
1
0.5
0
−0.5
−1
−1.5

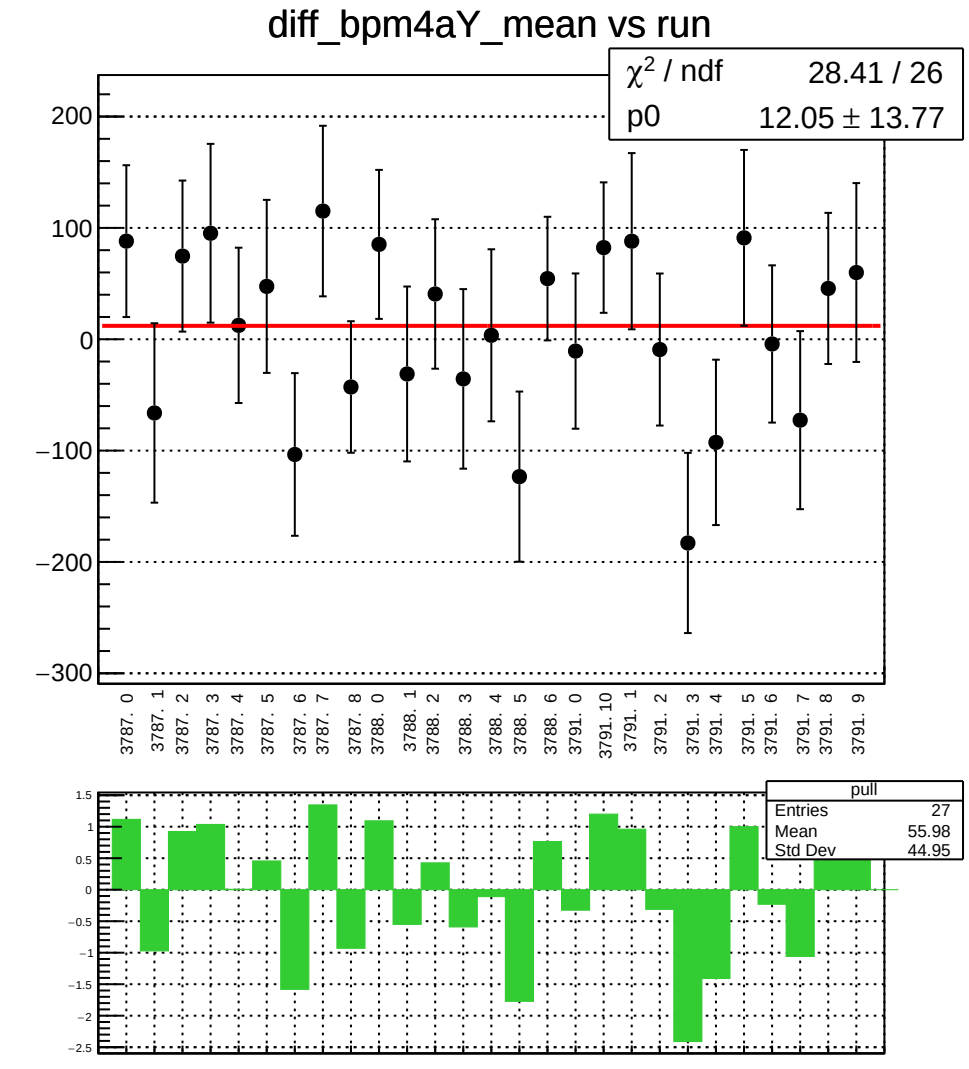

pull1D
Entries 27
Mean −0.3026
Std Dev 0.9196
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

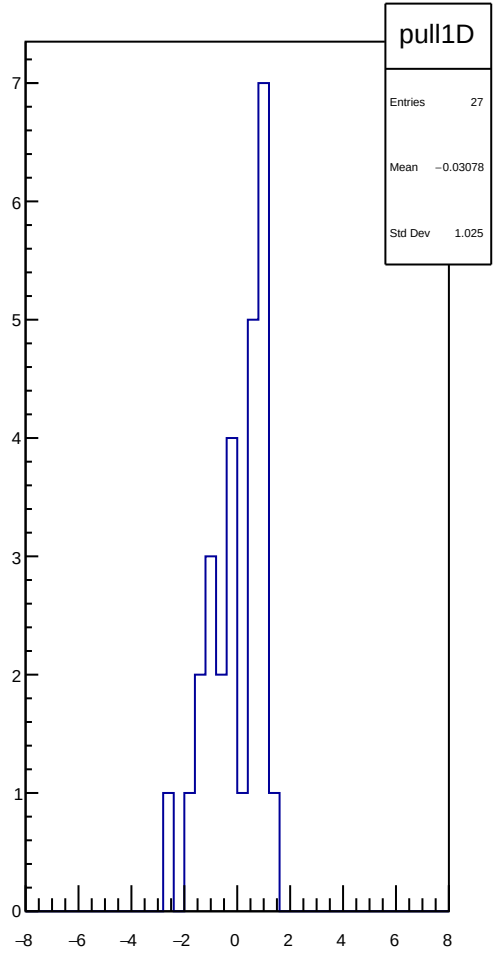

diff_cav4dY_rms vs run
χ^2 / ndf 2.555e+05 / 26
p0 71.21 ± 0.138
4000
3500
3000
2500
2000
1500
1000
500
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

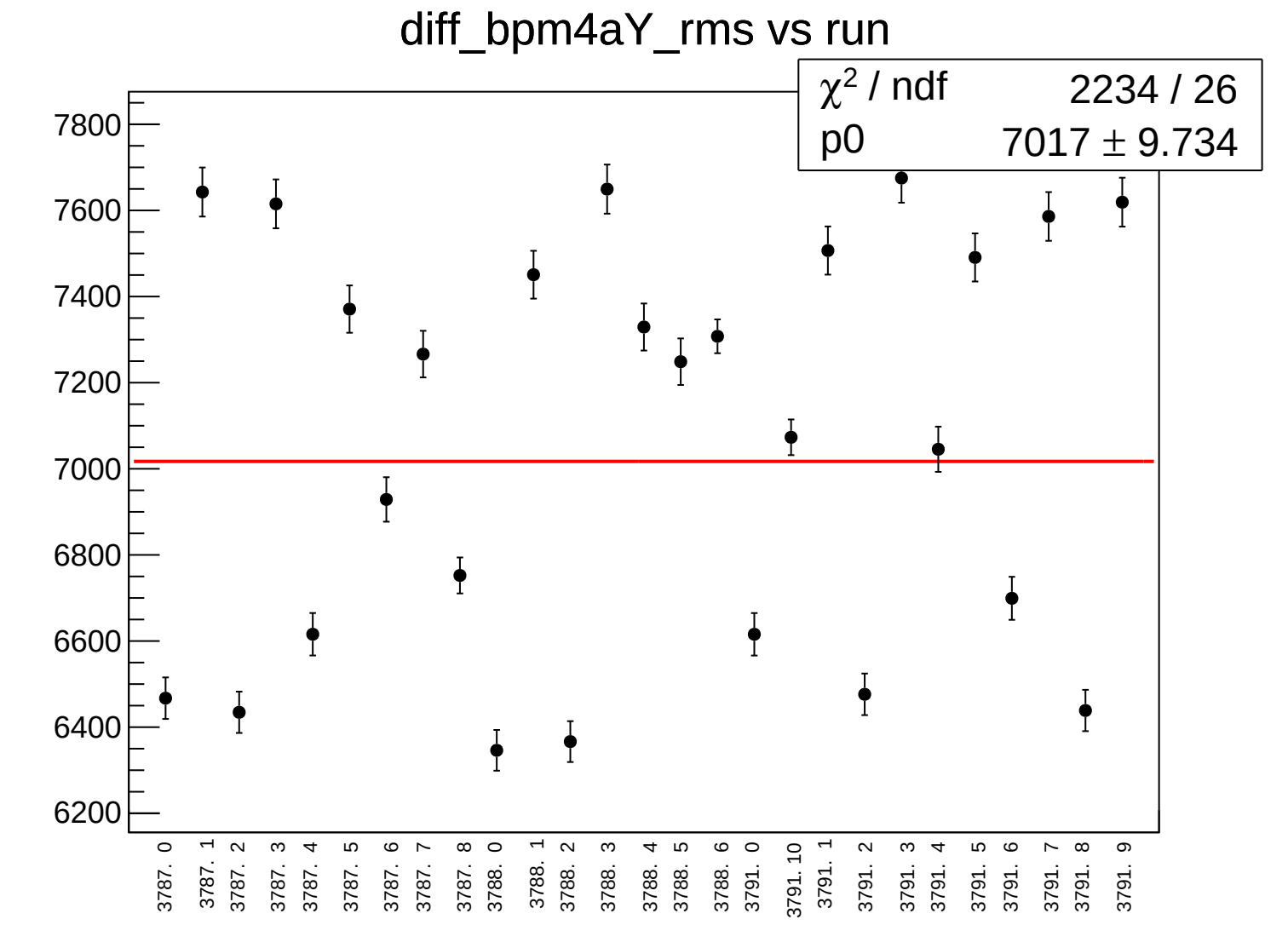

diff_bpm4aX_mean vs run
χ² / ndf 34.72 / 26
p0 −5.108 ± 4.042
60
40
20
0
−20
−40
−60
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 332.2
Std Dev 319.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

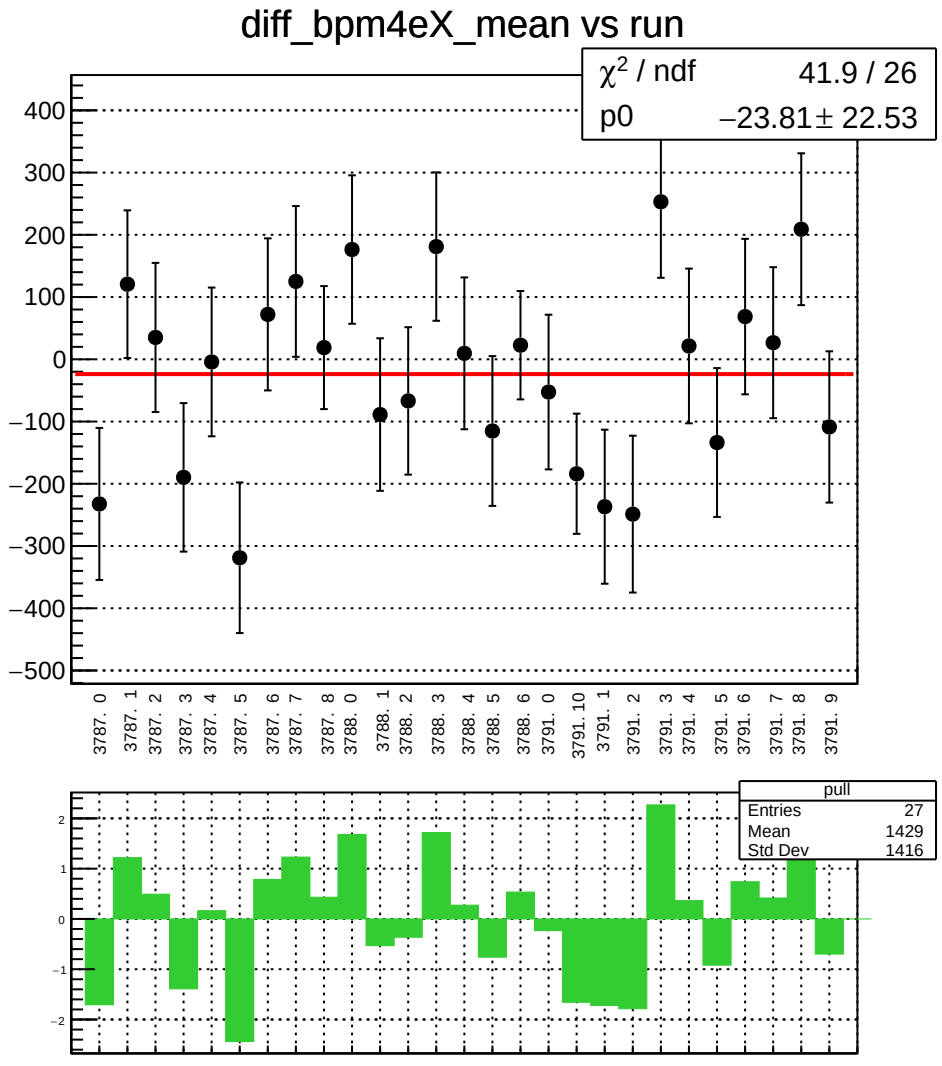

pull1D
Entries 27
Mean −0.002174
Std Dev 1.134
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

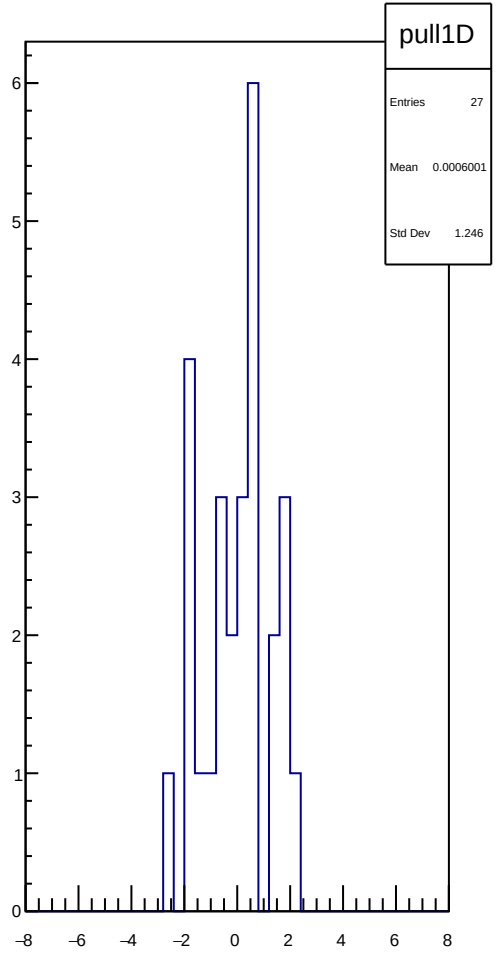

diff_bpm4aX_rms vs run
χ² / ndf 172.7 / 26
p0 2064 ± 2.858
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980
1960
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

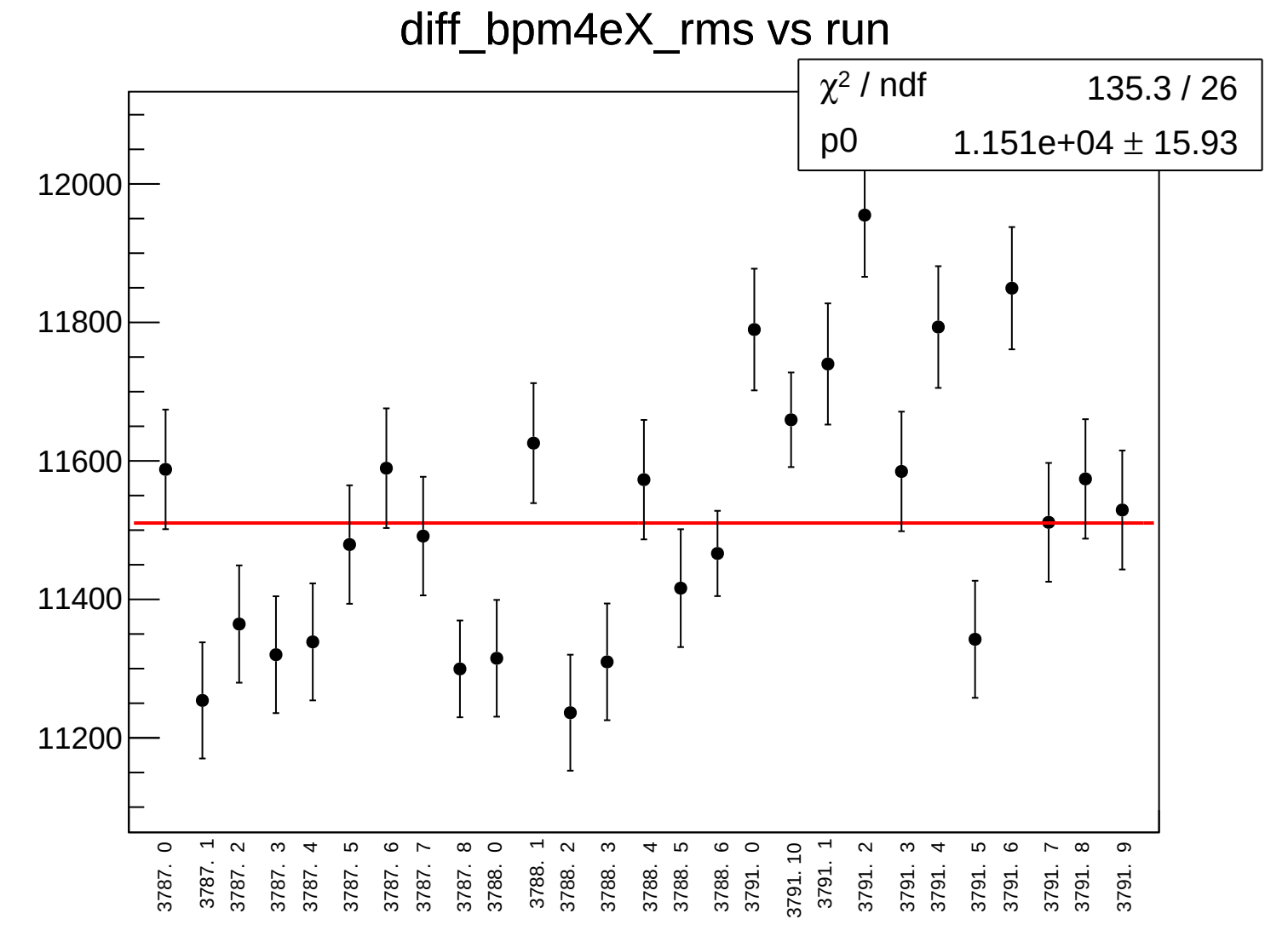

diff_bpm4aY_mean vs run
χ² / ndf 28.41 / 26
p0 12.05 ± 13.77
200
100
0
−100
−200
−300
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 55.98
Std Dev 44.95
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

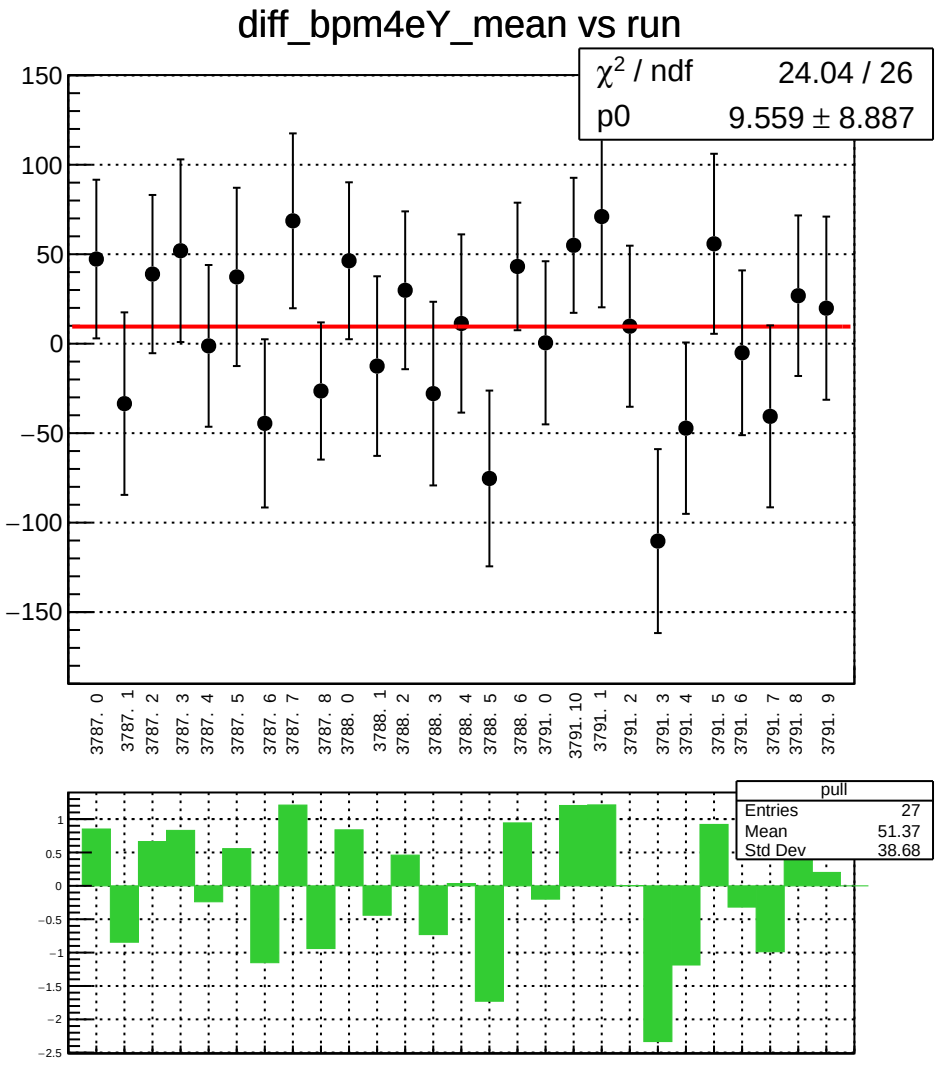

pull1D
Entries 27
Mean −0.03078
Std Dev 1.025
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

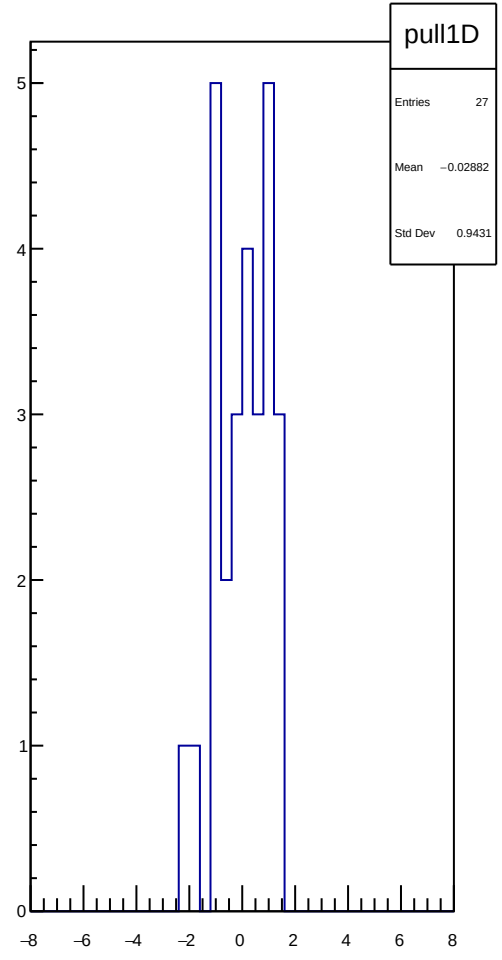

diff_bpm4aY_rms vs run
χ² / ndf 2234 / 26
p0 7017 ± 9.734
7800
7600
7400
7200
7000
6800
6600
6400
6200
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

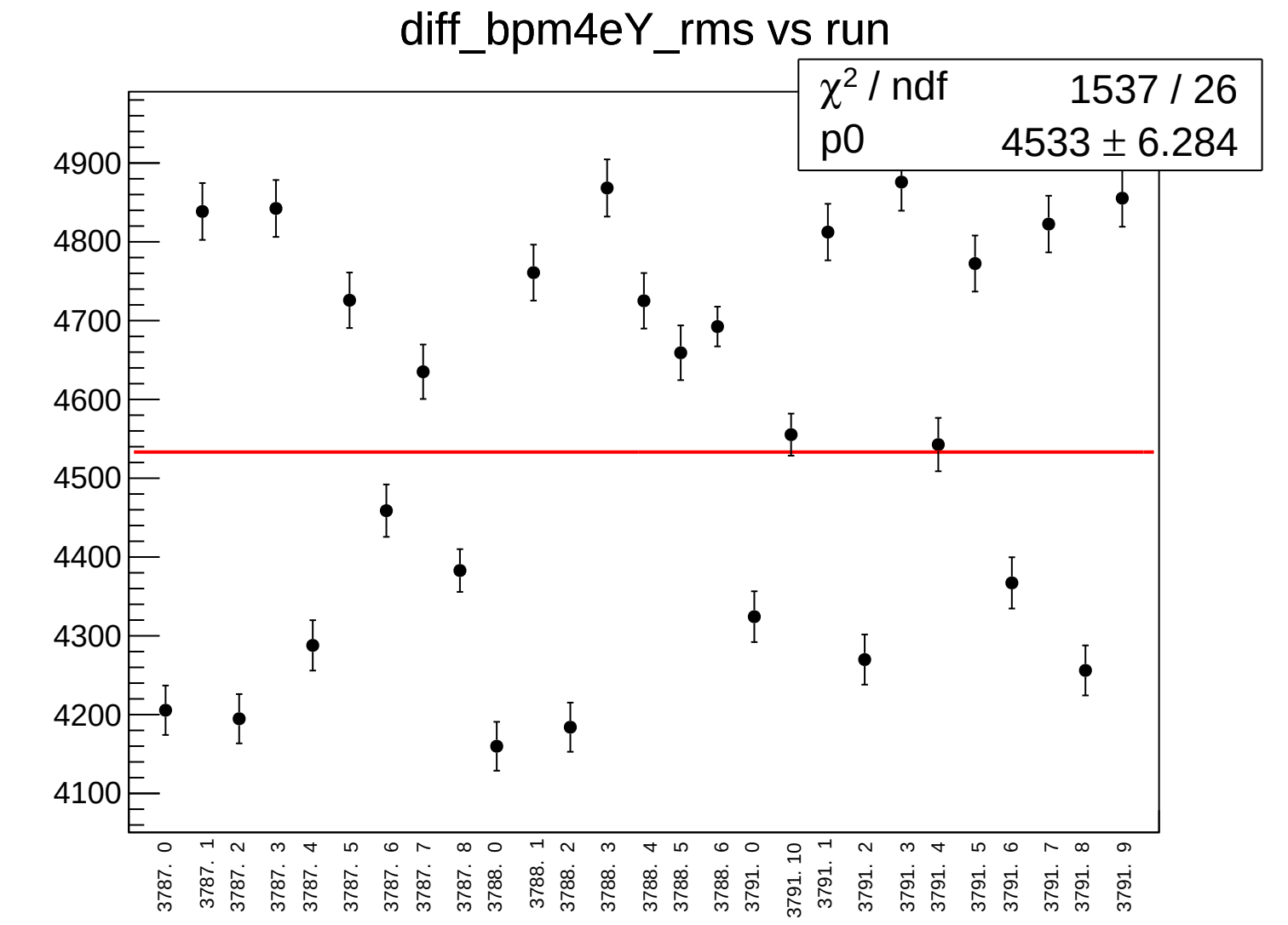

diff_bpm4eX_mean vs run
χ² / ndf 41.9 / 26
p0 −23.81± 22.53
400
300
200
100
0
−100
−200
−300
−400
−500
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 1429
Std Dev 1416
2
1
0
−1
−2

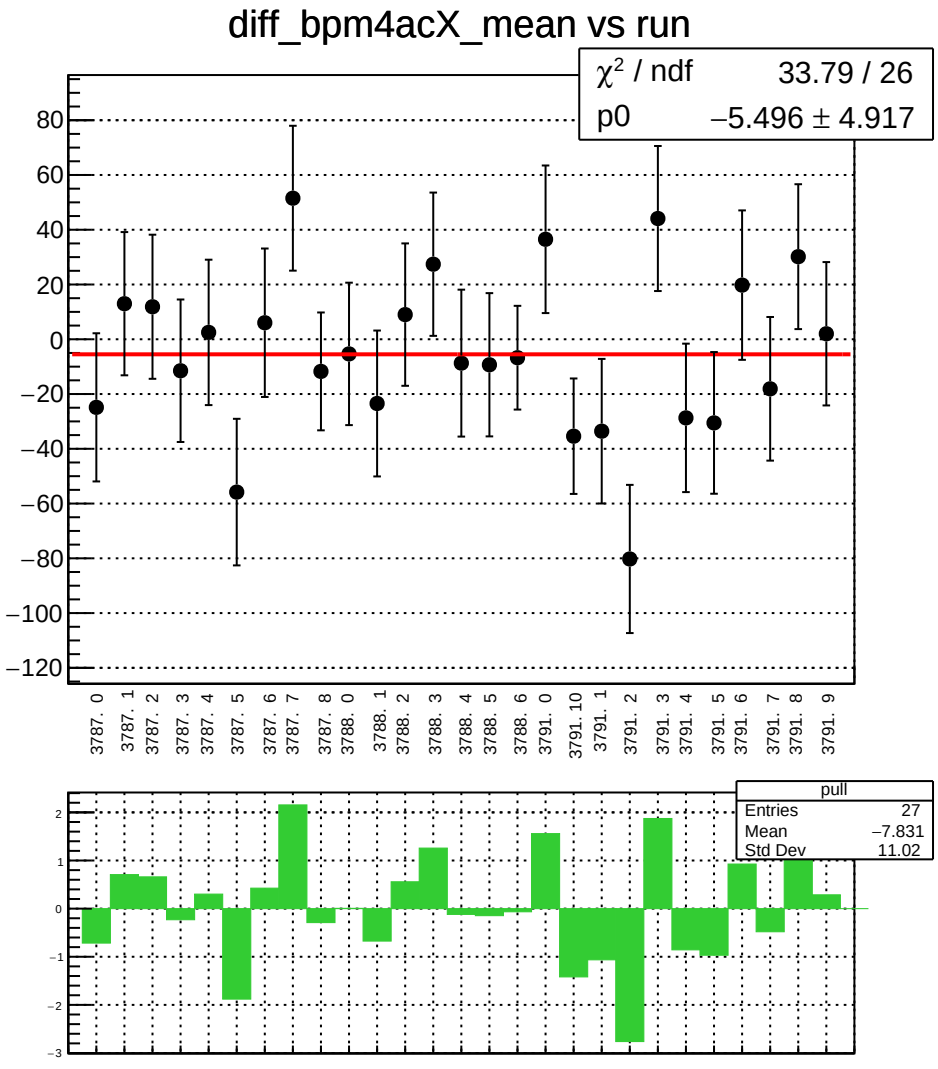

pull1D
Entries 27
Mean 0.0006001
Std Dev 1.246
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

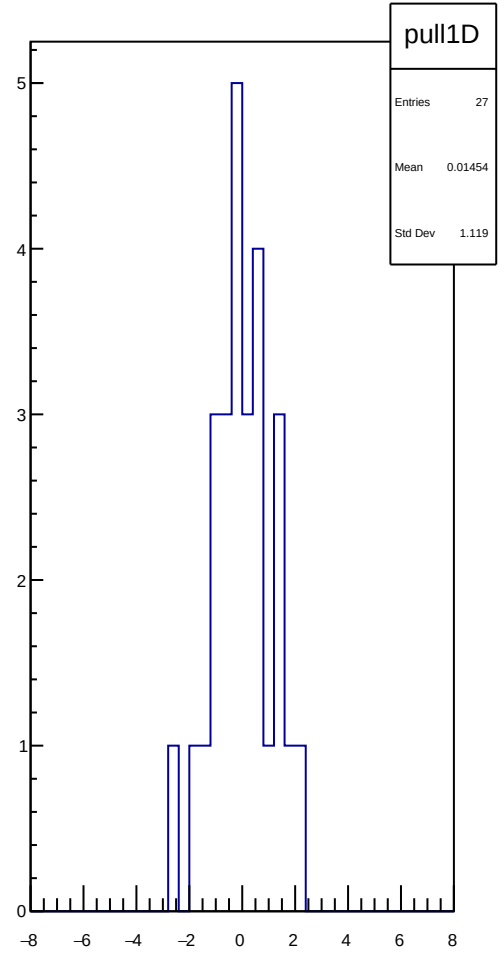

diff_bpm4eX_rms vs run
χ² / ndf 135.3 / 26
p0 1.151e+04 ± 15.93
12000
11800
11600
11400
11200
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

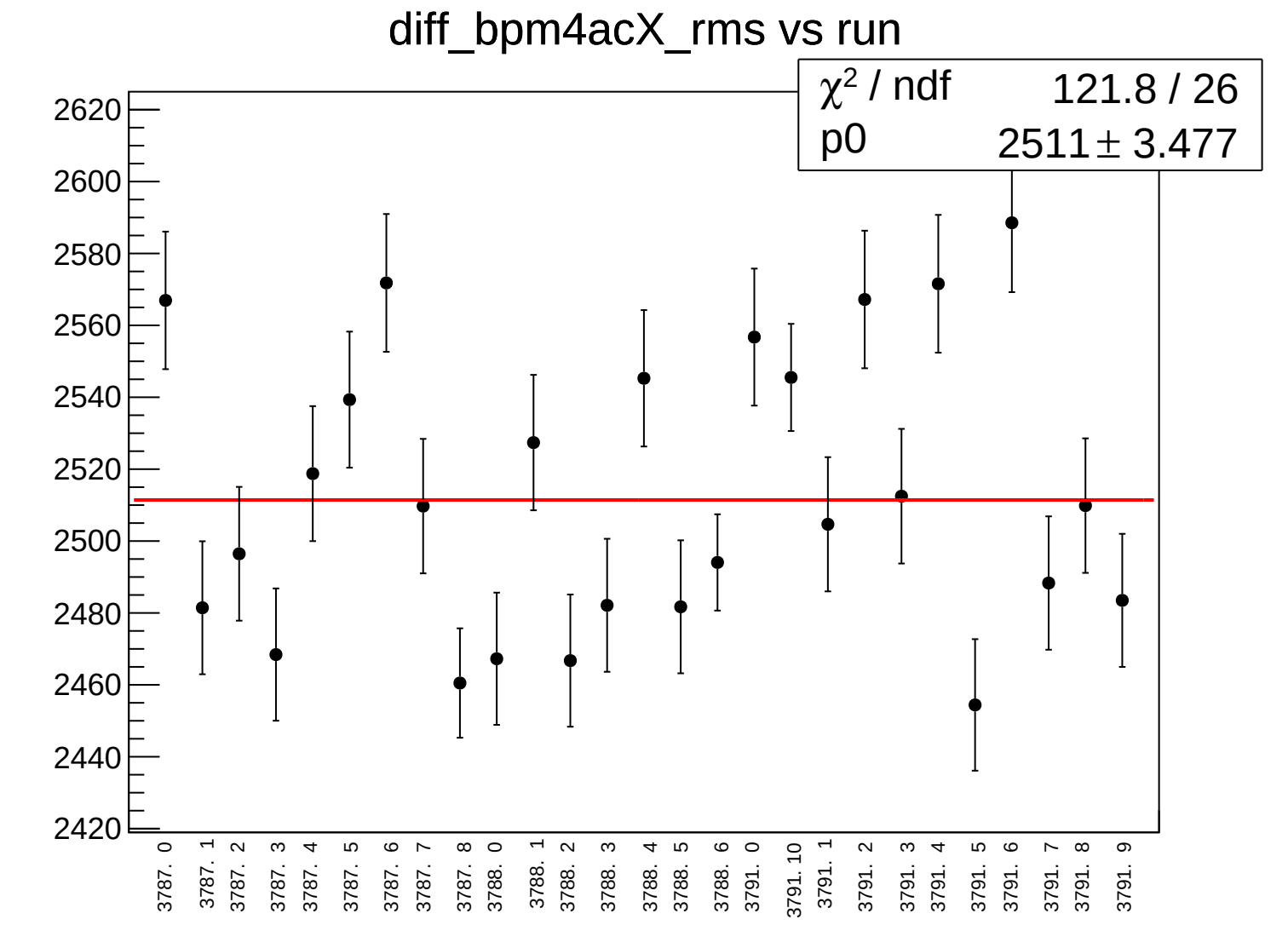

diff_bpm4eY_mean vs run
χ² / ndf 24.04 / 26
p0 9.559 ± 8.887
150
100
50
0
−50
−100
−150
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 51.37
Std Dev 38.68
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

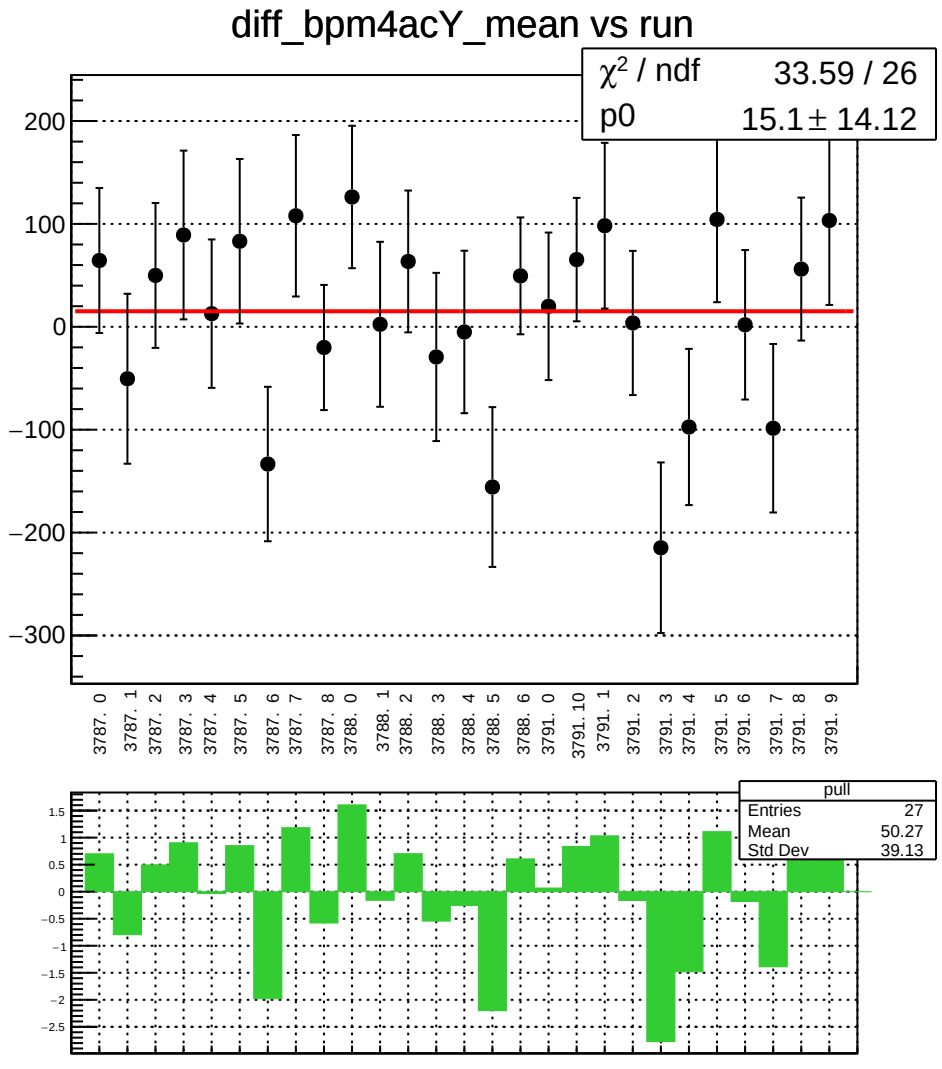

pull1D
Entries 27
Mean −0.02882
Std Dev 0.9431
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

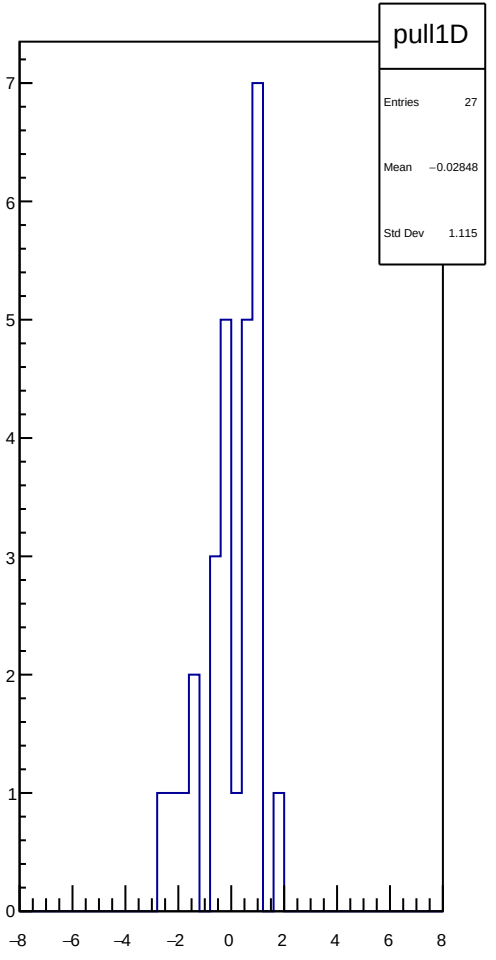

diff_bpm4eY_rms vs run
χ² / ndf 1537 / 26
p0 4533 ± 6.284
4900
4800
4700
4600
4500
4400
4300
4200
4100
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

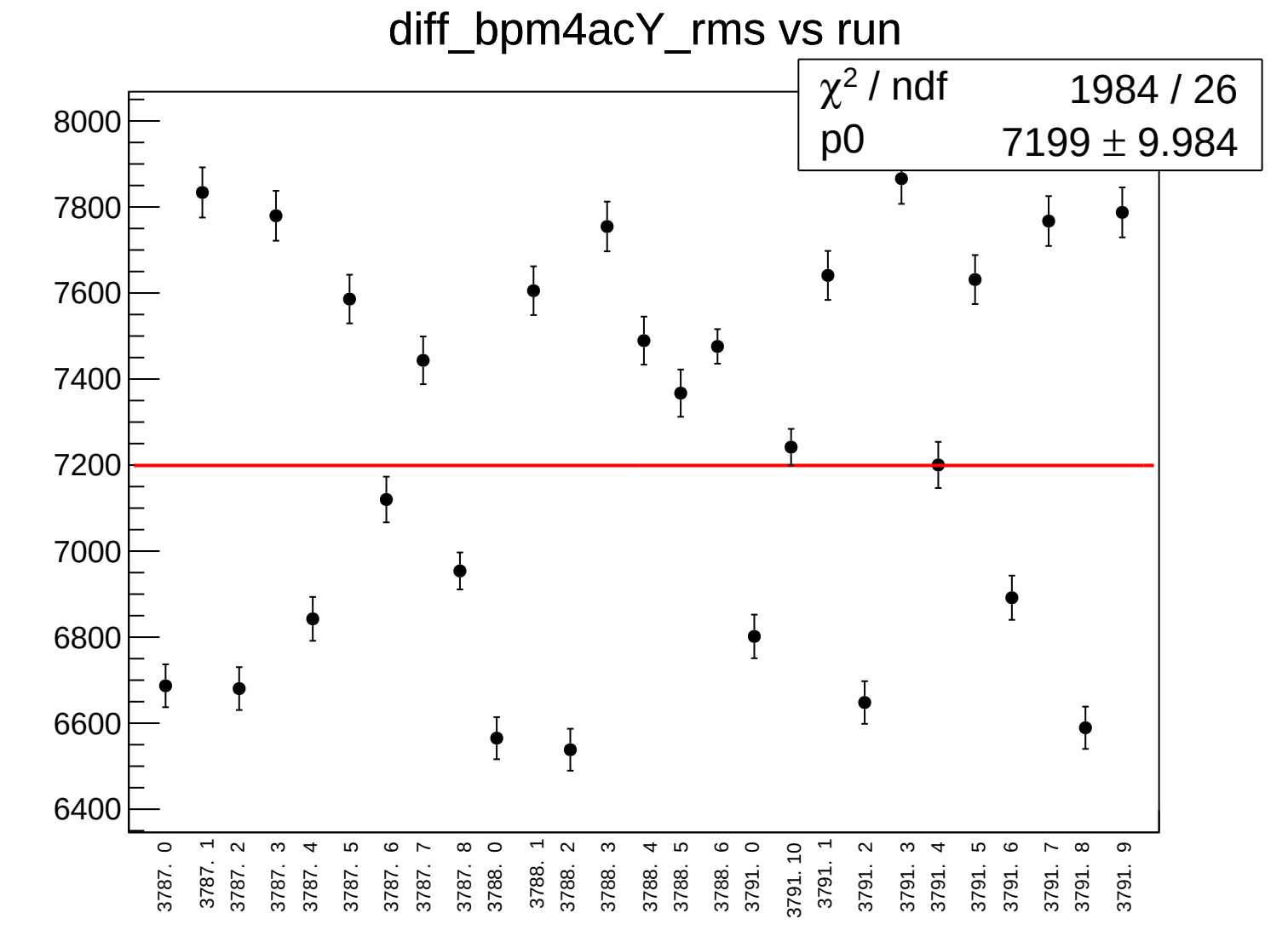

diff_bpm4acX_mean vs run
χ² / ndf 33.79 / 26
p0 −5.496 ± 4.917
80
60
40
20
0
−20
−40
−60
−80
−100
−120
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −7.831
Std Dev 11.02
2
1
0
−1
−2
−3

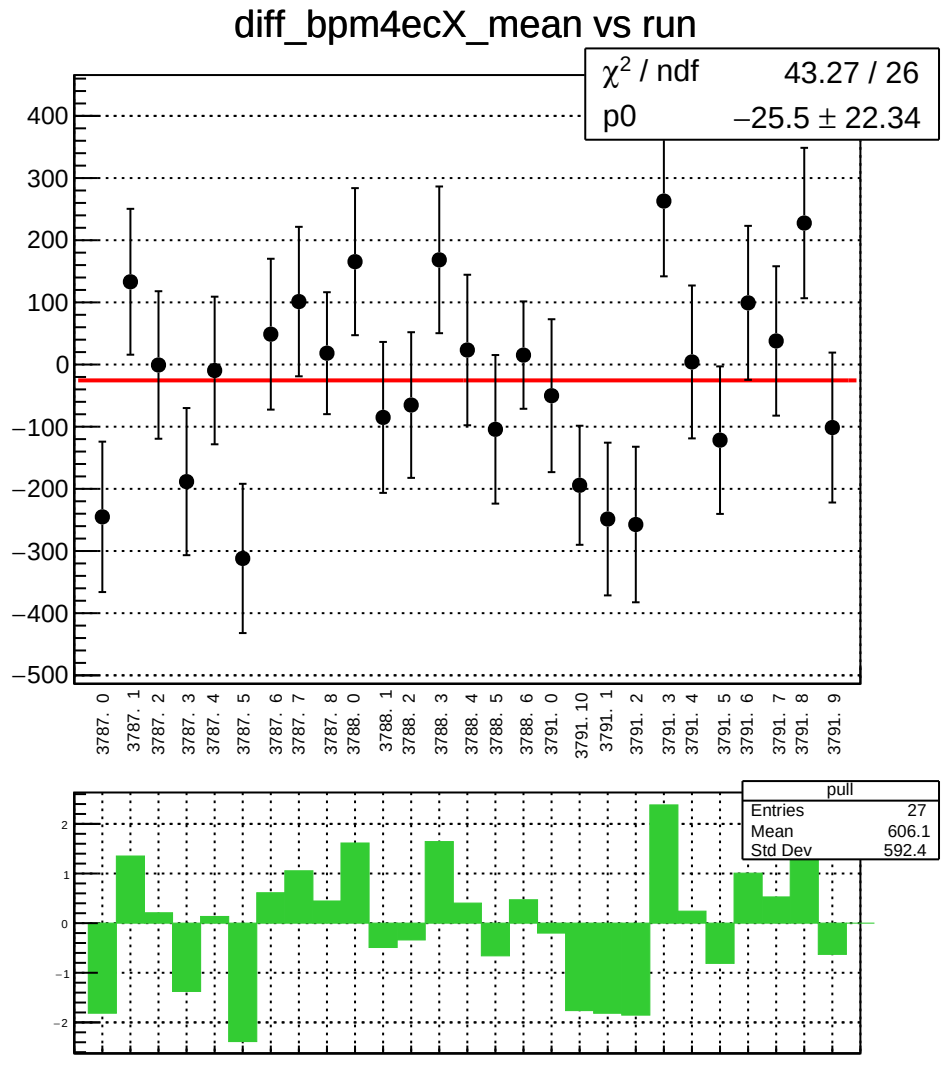

pull1D
Entries 27
Mean 0.01454
Std Dev 1.119
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

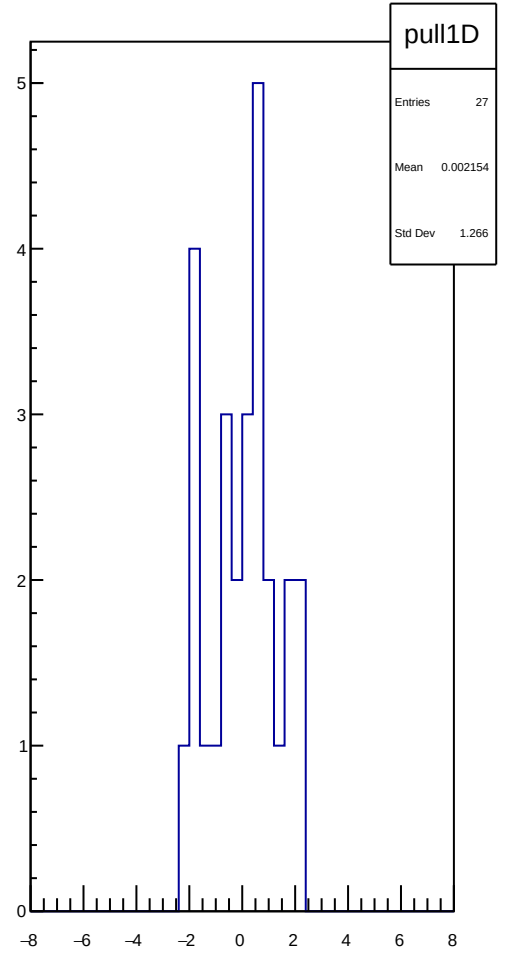

diff_bpm4acX_rms vs run
χ² / ndf 121.8 / 26
p0 2511 ± 3.477
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

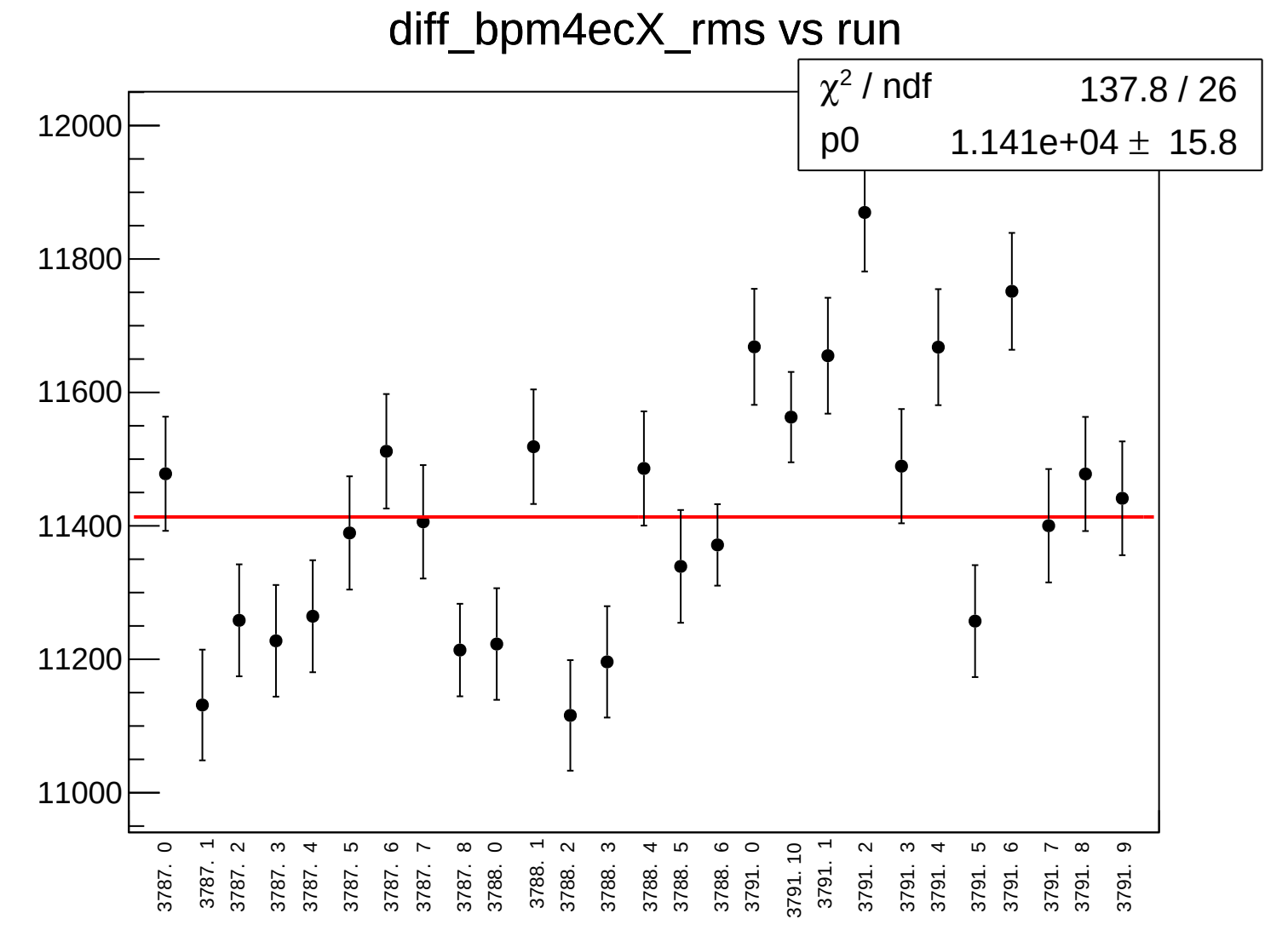

diff_bpm4acY_mean vs run
χ² / ndf 33.59 / 26
p0 15.1 ± 14.12
200
100
0
−100
−200
−300
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 50.27
Std Dev 39.13
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

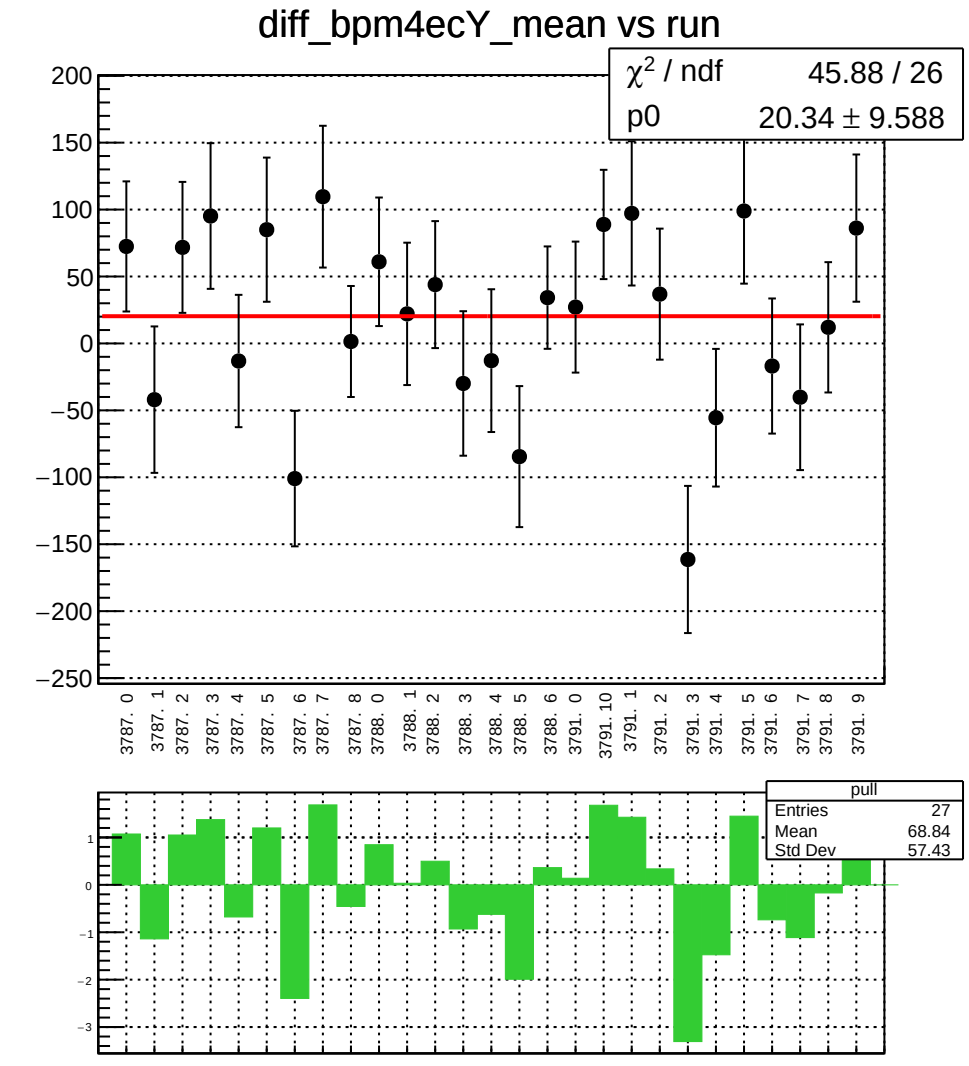

pull1D
Entries 27
Mean −0.02848
Std Dev 1.115
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

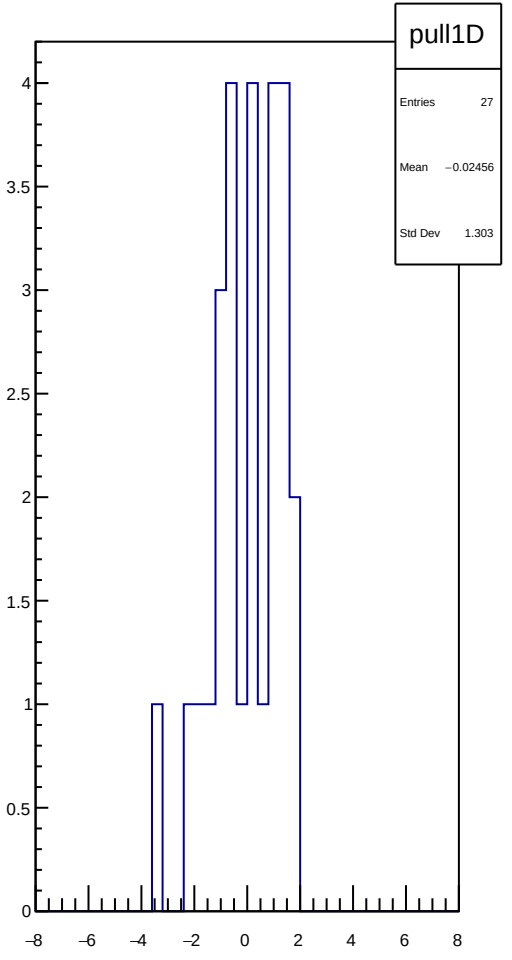

diff_bpm4acY_rms vs run
χ² / ndf 1984 / 26
p0 7199 ± 9.984
8000
7800
7600
7400
7200
7000
6800
6600
6400
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

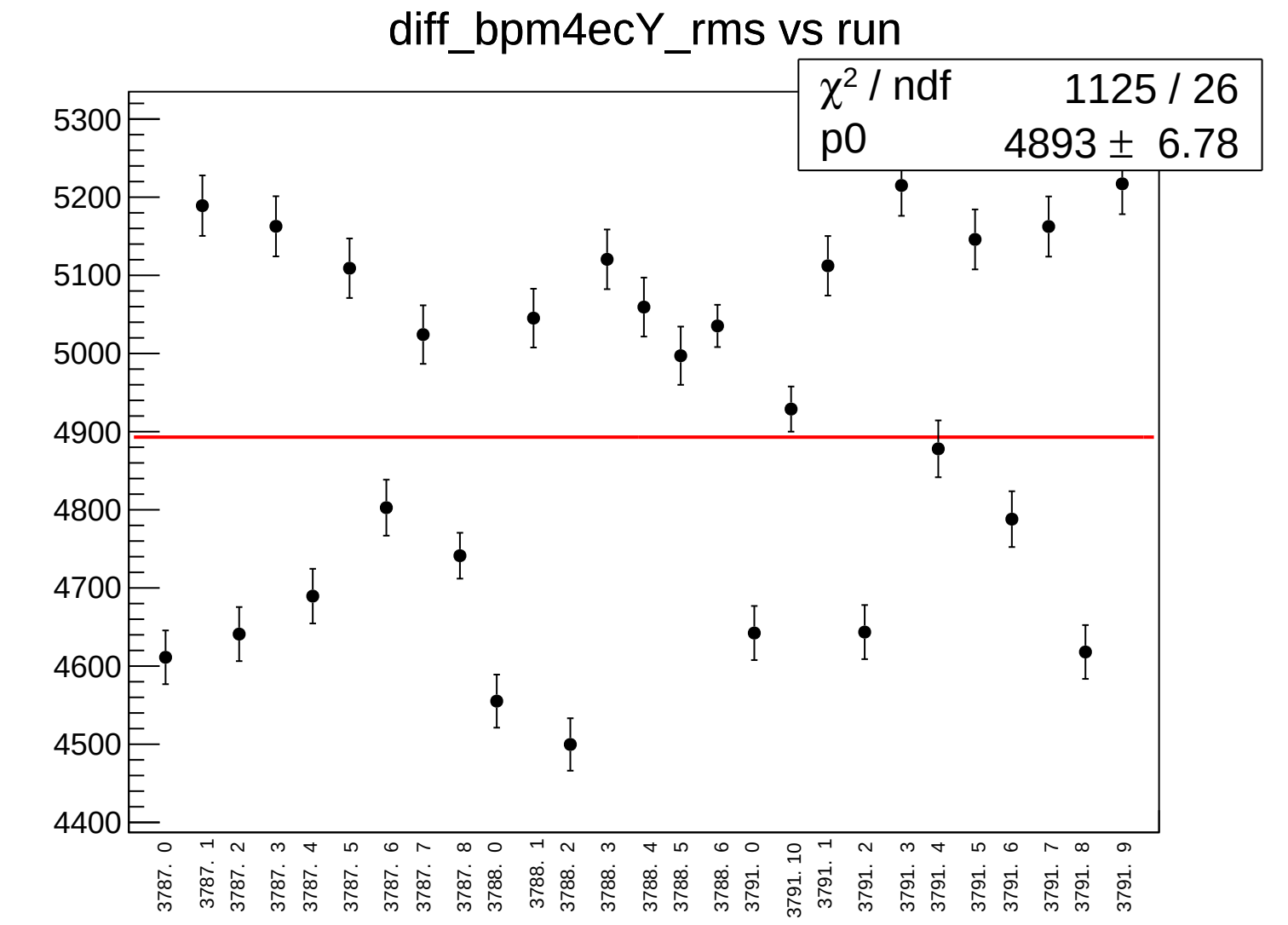

diff_bpm4ecX_mean vs run
χ² / ndf 43.27 / 26
p0 −25.5 ± 22.34
400
300
200
100
0
−100
−200
−300
−400
−500
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 606.1
Std Dev 592.4
2
1
0
−1
−2

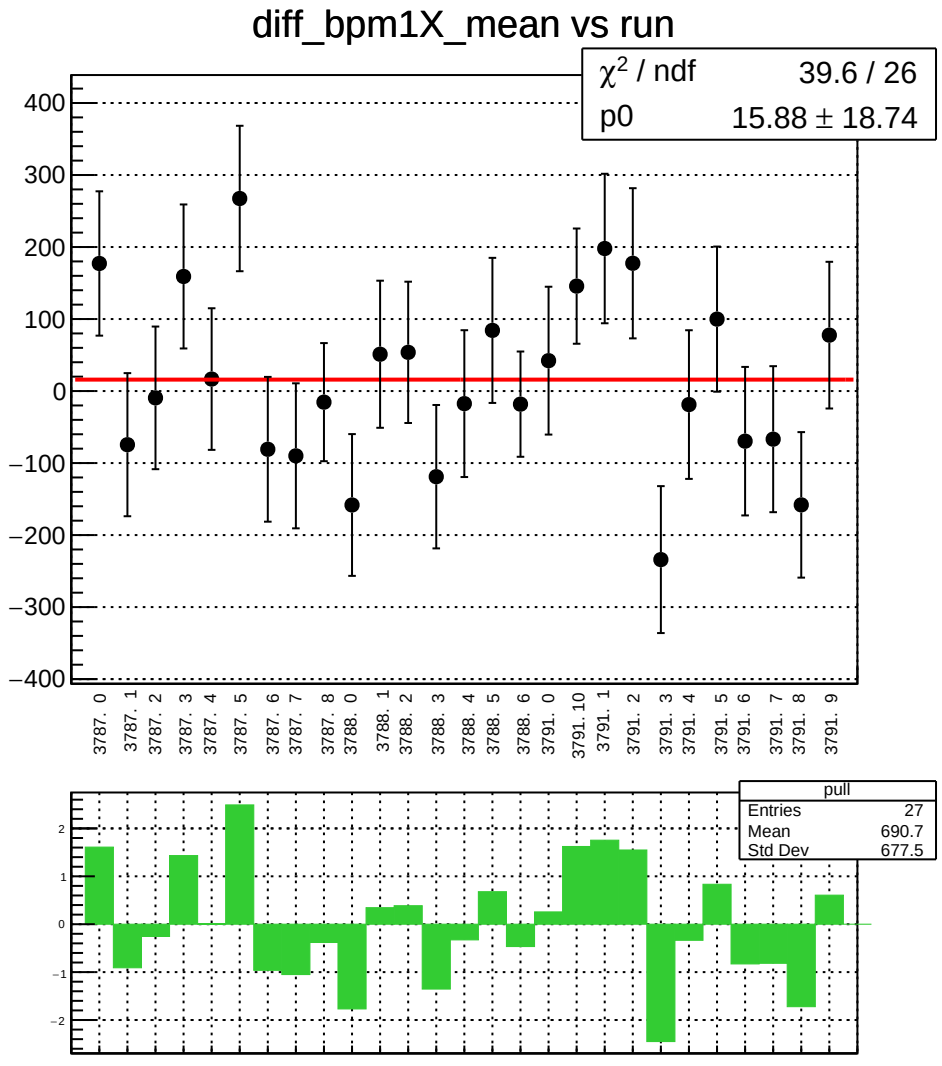

pull1D
Entries 27
Mean 0.002154
Std Dev 1.266
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

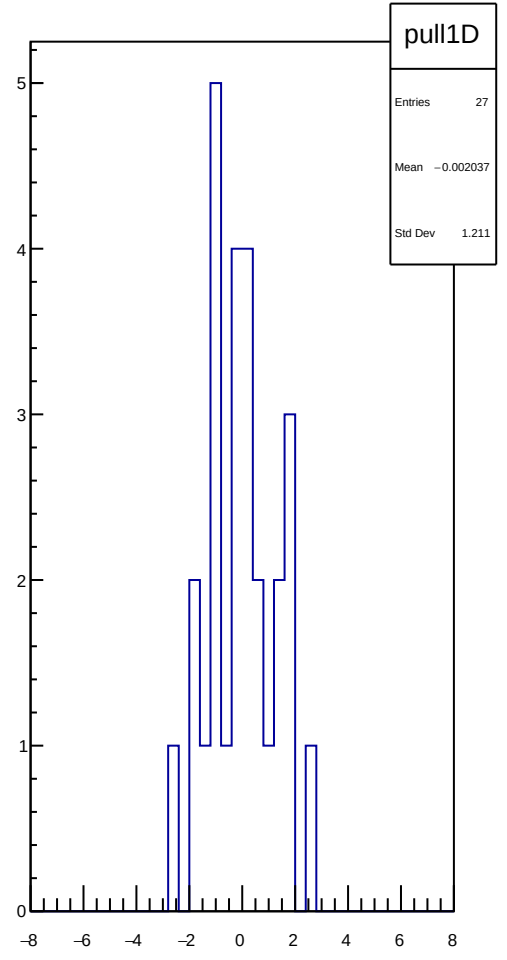

diff_bpm4ecX_rms vs run
χ² / ndf 137.8 / 26
p0 1.141e+04 ± 15.8
12000
11800
11600
11400
11200
11000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

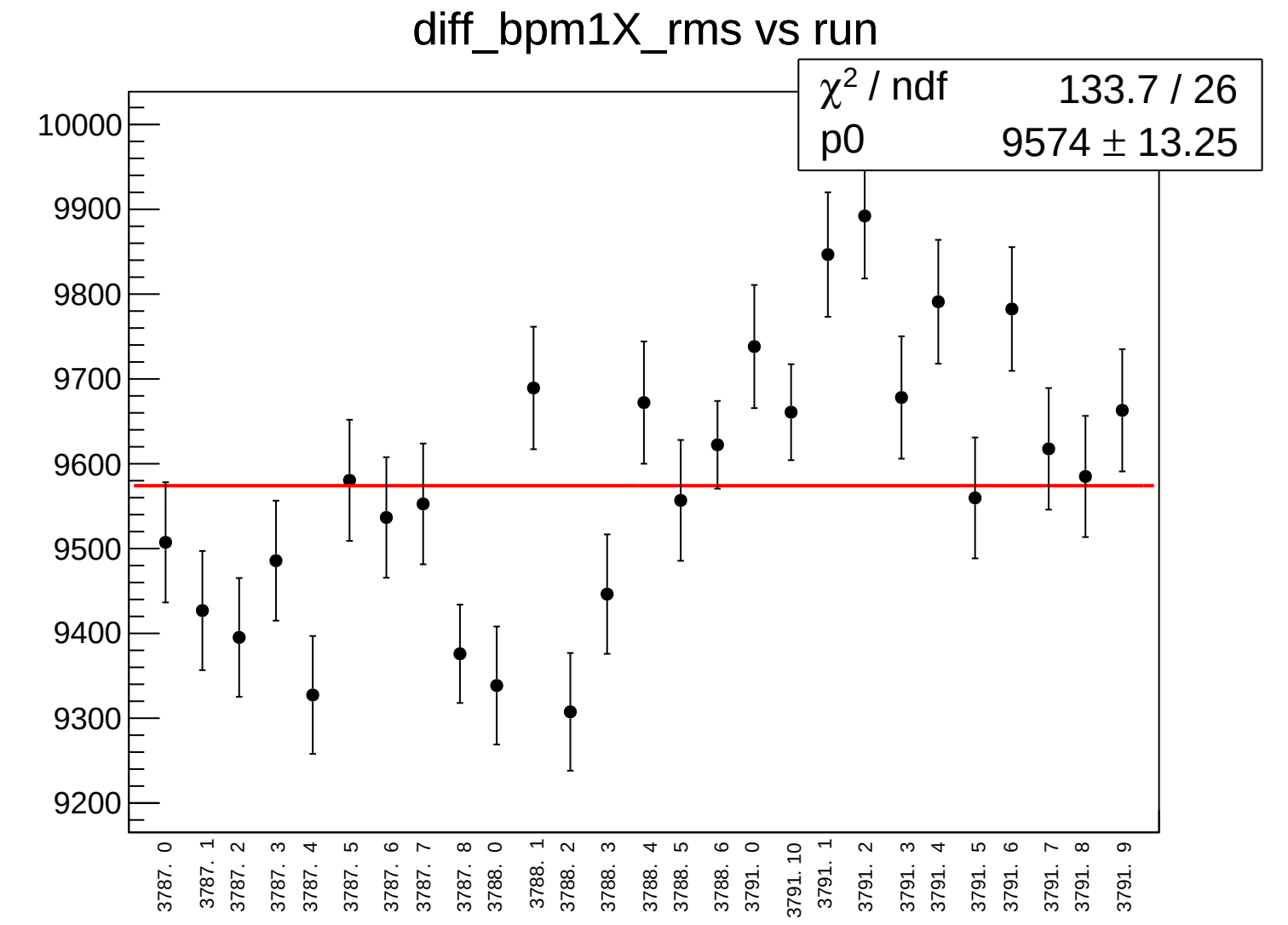

diff_bpm4ecY_mean vs run
χ² / ndf 45.88 / 26
p0 20.34 ± 9.588
200
150
100
50
0
−50
−100
−150
−200
−250
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 68.84
Std Dev 57.43
1
0
−1
−2
−3

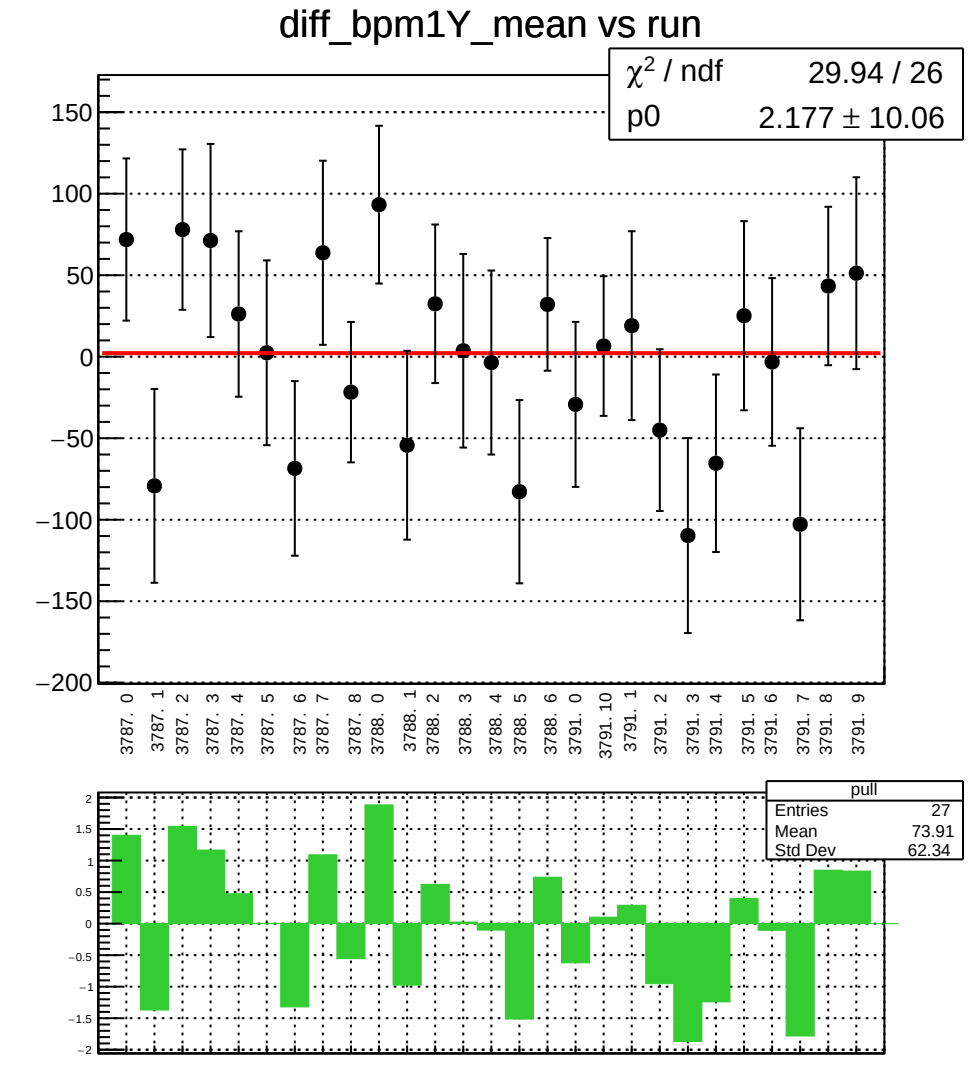

pull1D
Entries 27
Mean −0.02456
Std Dev 1.303
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

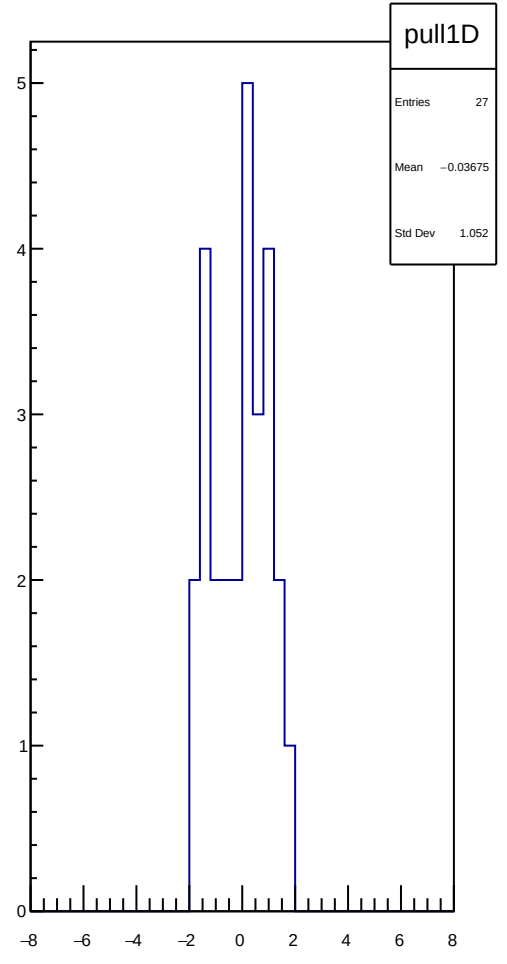

diff_bpm4ecY_rms vs run
χ² / ndf 1125 / 26
p0 4893 ± 6.78
5300
5200
5100
5000
4900
4800
4700
4600
4500
4400
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

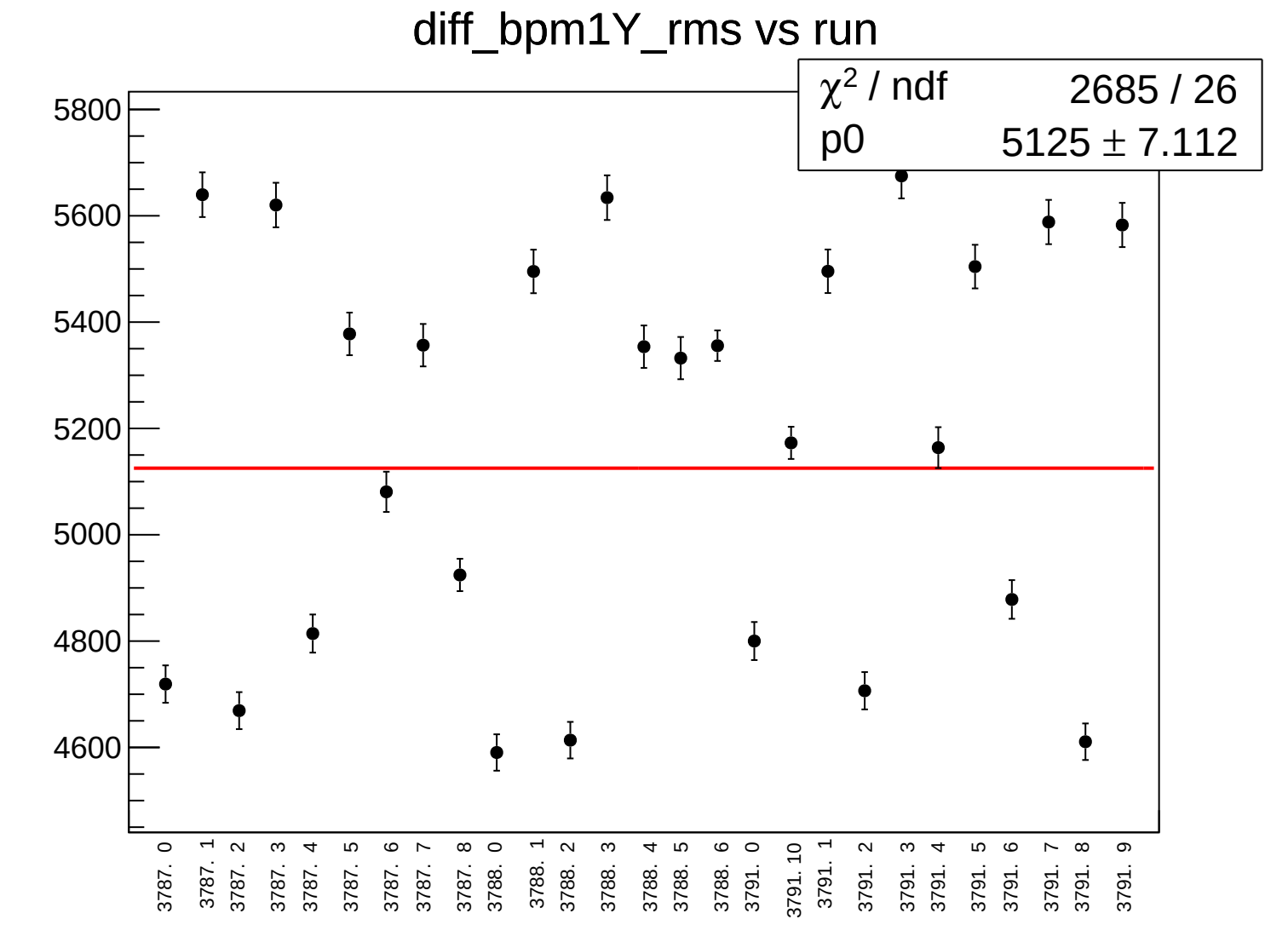

diff_bpm1X_mean vs run
χ² / ndf 39.6 / 26
p0 15.88 ± 18.74
400
300
200
100
0
−100
−200
−300
−400
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 690.7
Std Dev 677.5
2
1
0
−1
−2

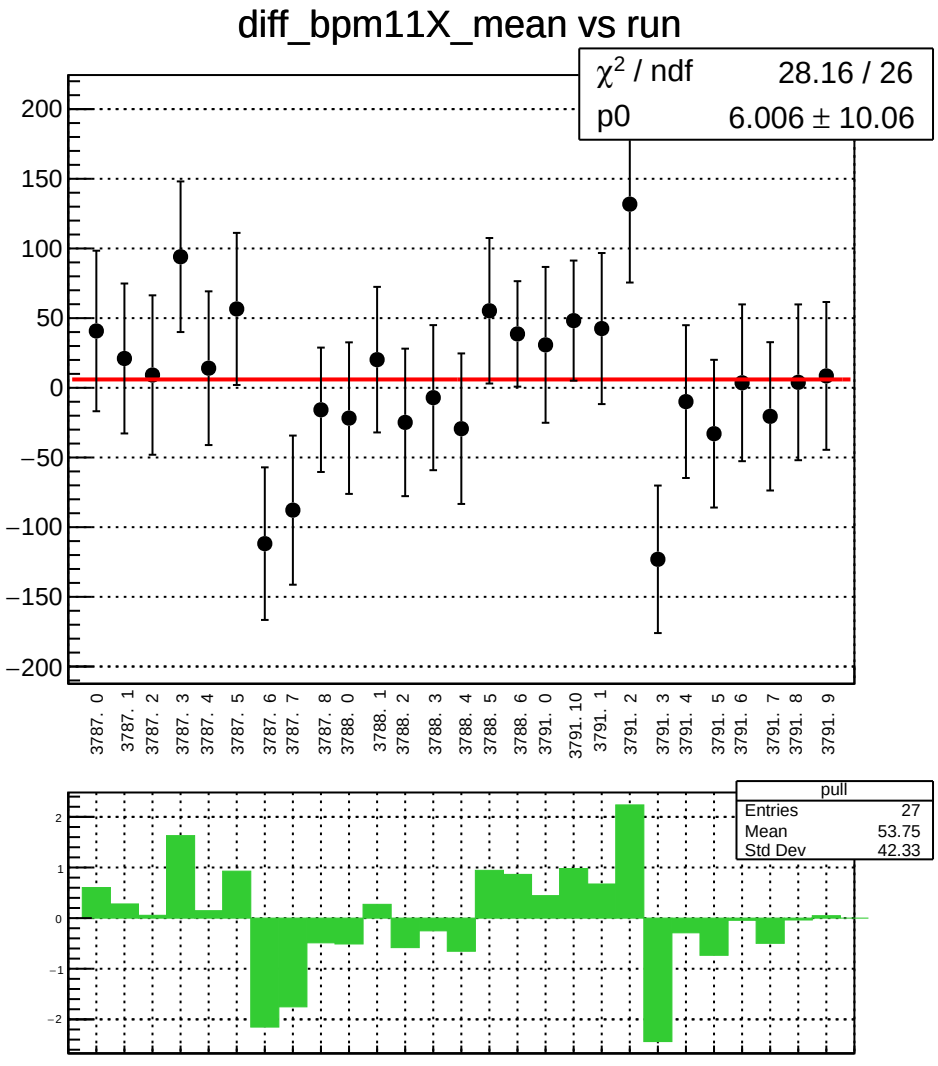

pull1D
Entries 27
Mean −0.002037
Std Dev 1.211
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

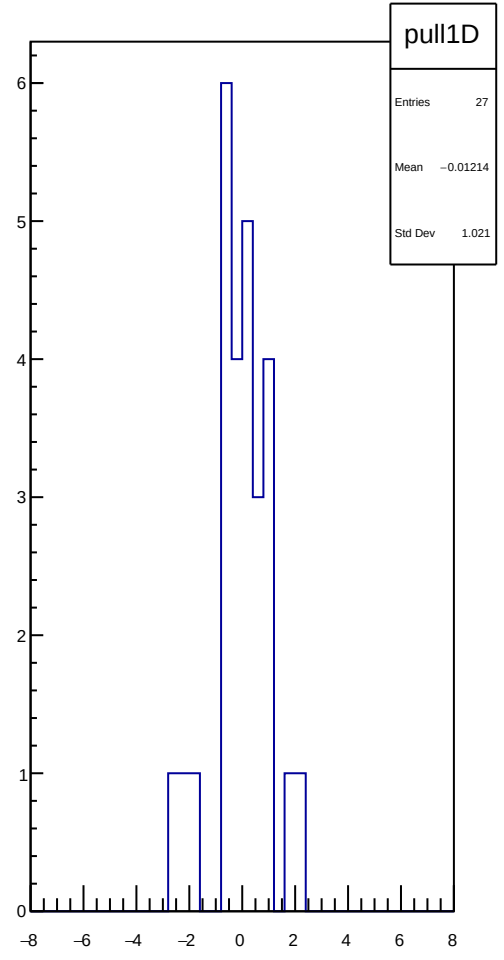

diff_bpm1X_rms vs run
χ^2 / ndf 133.7 / 26
p0 9574 ± 13.25
10000
9900
9800
9700
9600
9500
9400
9300
9200
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

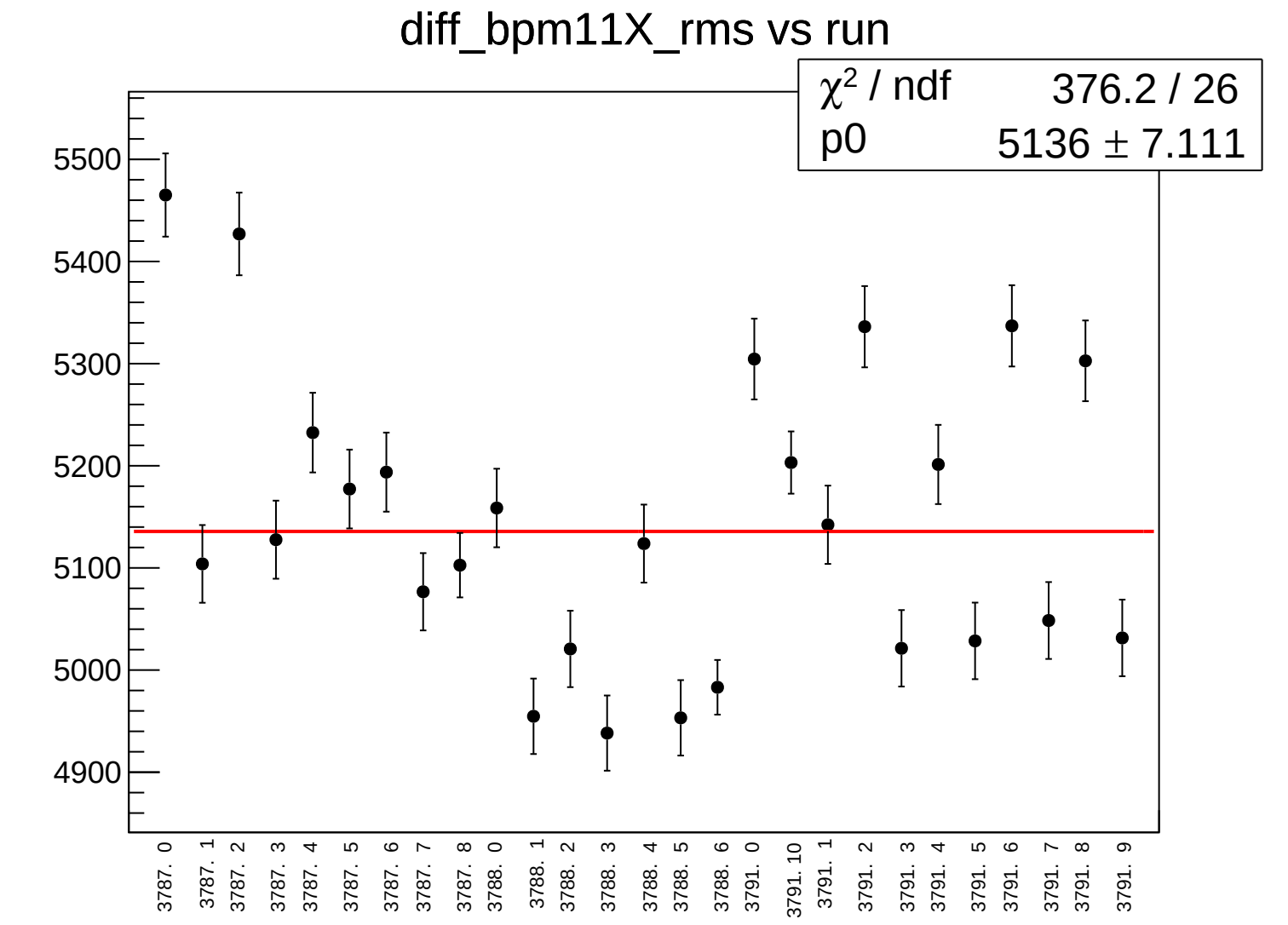

diff_bpm1Y_mean vs run
χ² / ndf 29.94 / 26
p0 2.177 ± 10.06
150
100
50
0
−50
−100
−150
−200
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 73.91
Std Dev 62.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

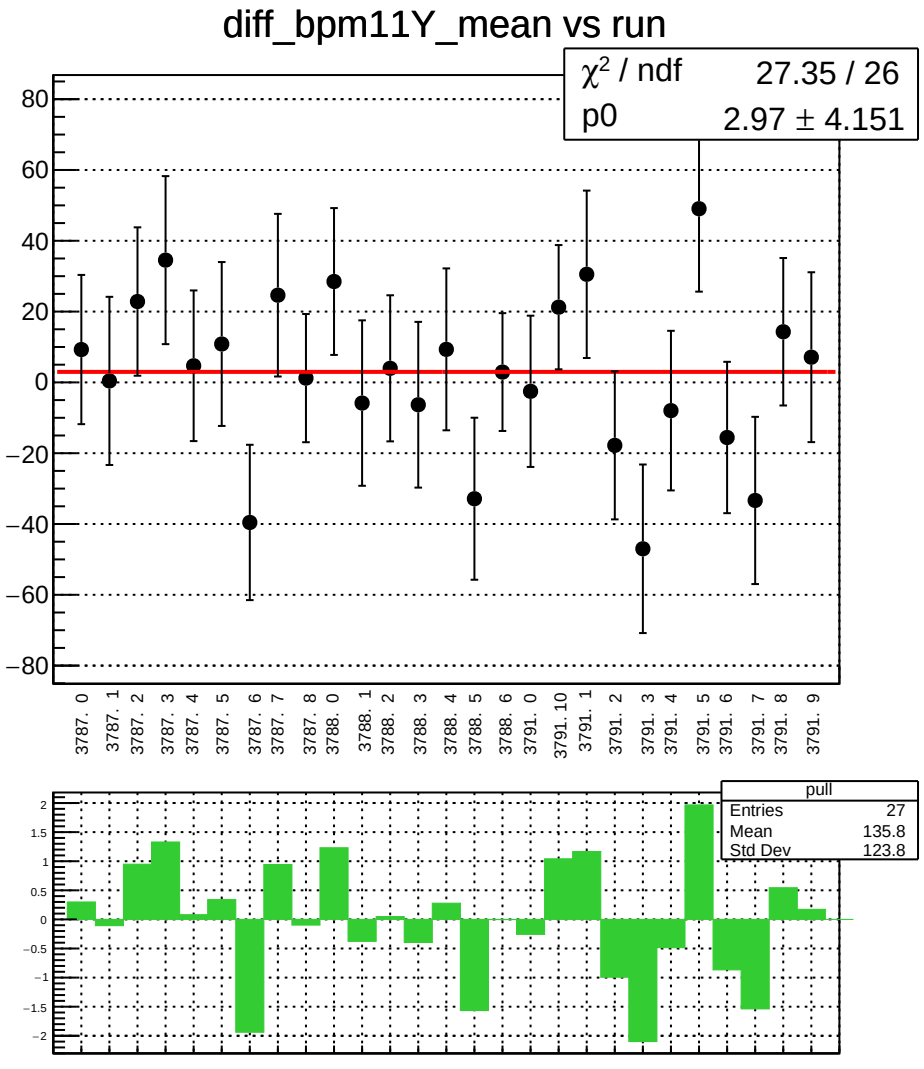

pull1D
Entries 27
Mean −0.03675
Std Dev 1.052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

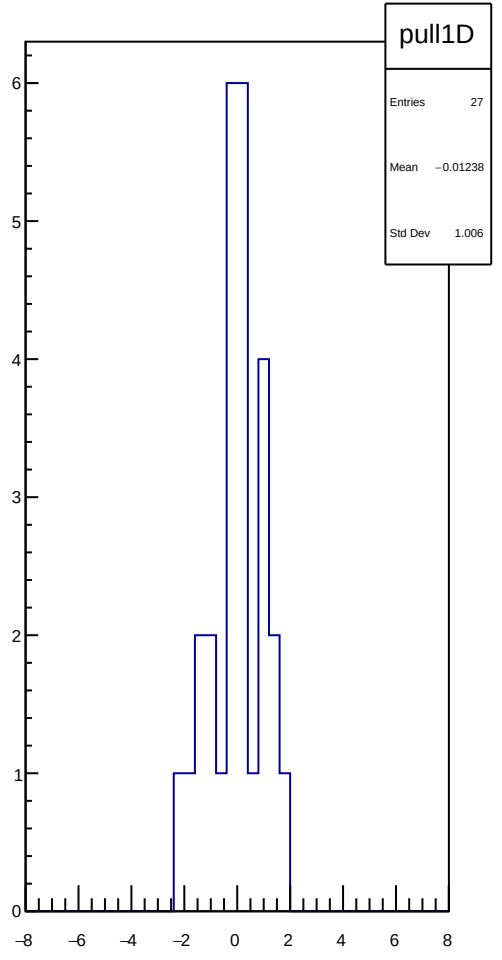

diff_bpm1Y_rms vs run
χ² / ndf 2685 / 26
p0 5125 ± 7.112
5800
5600
5400
5200
5000
4800
4600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

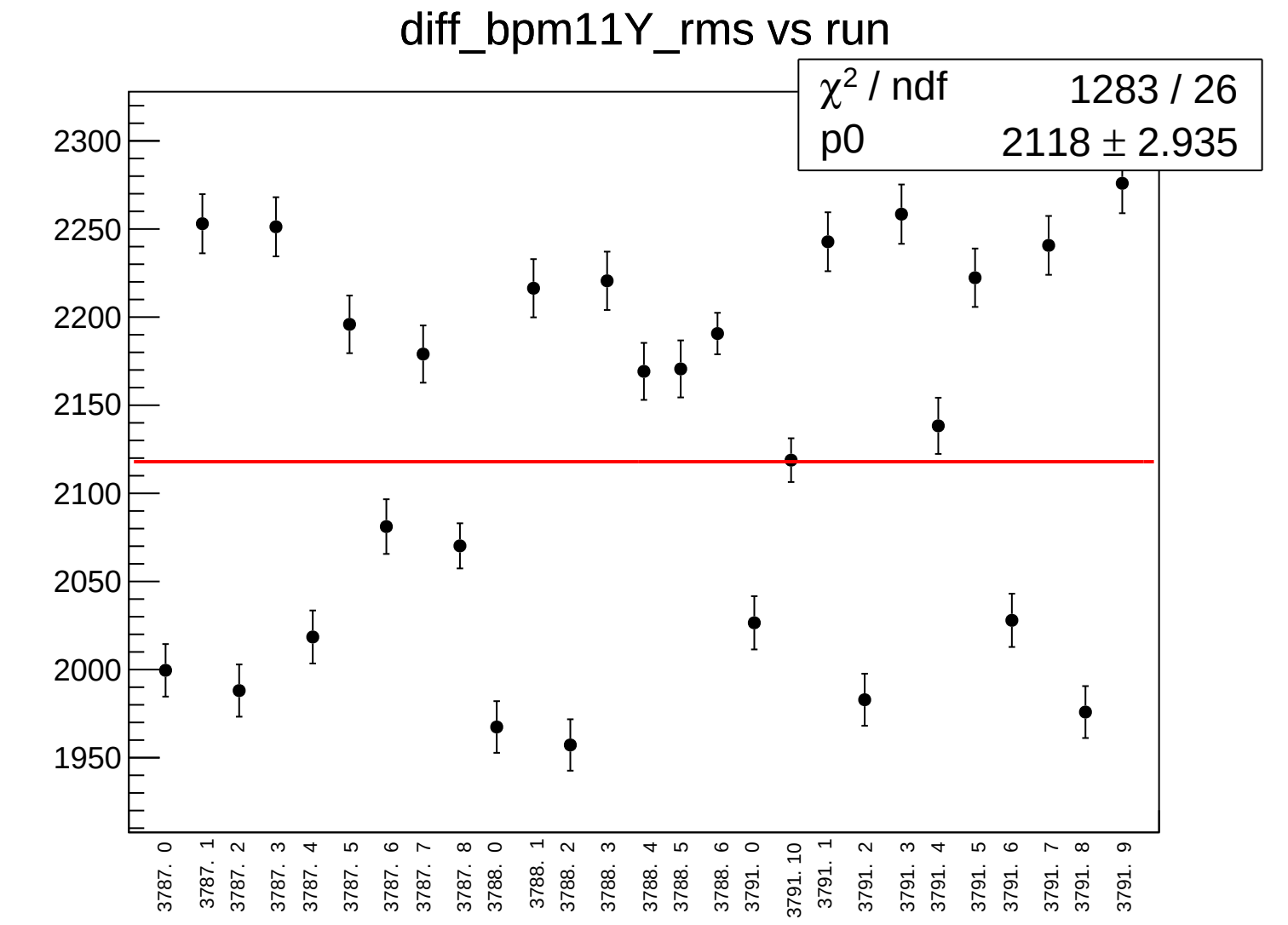

diff_bpm11X_mean vs run
χ^2 / ndf 28.16 / 26
p0 6.006 ± 10.06
200
150
100
50
0
−50
−100
−150
−200
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 53.75
Std Dev 42.33
2
1
0
−1
−2

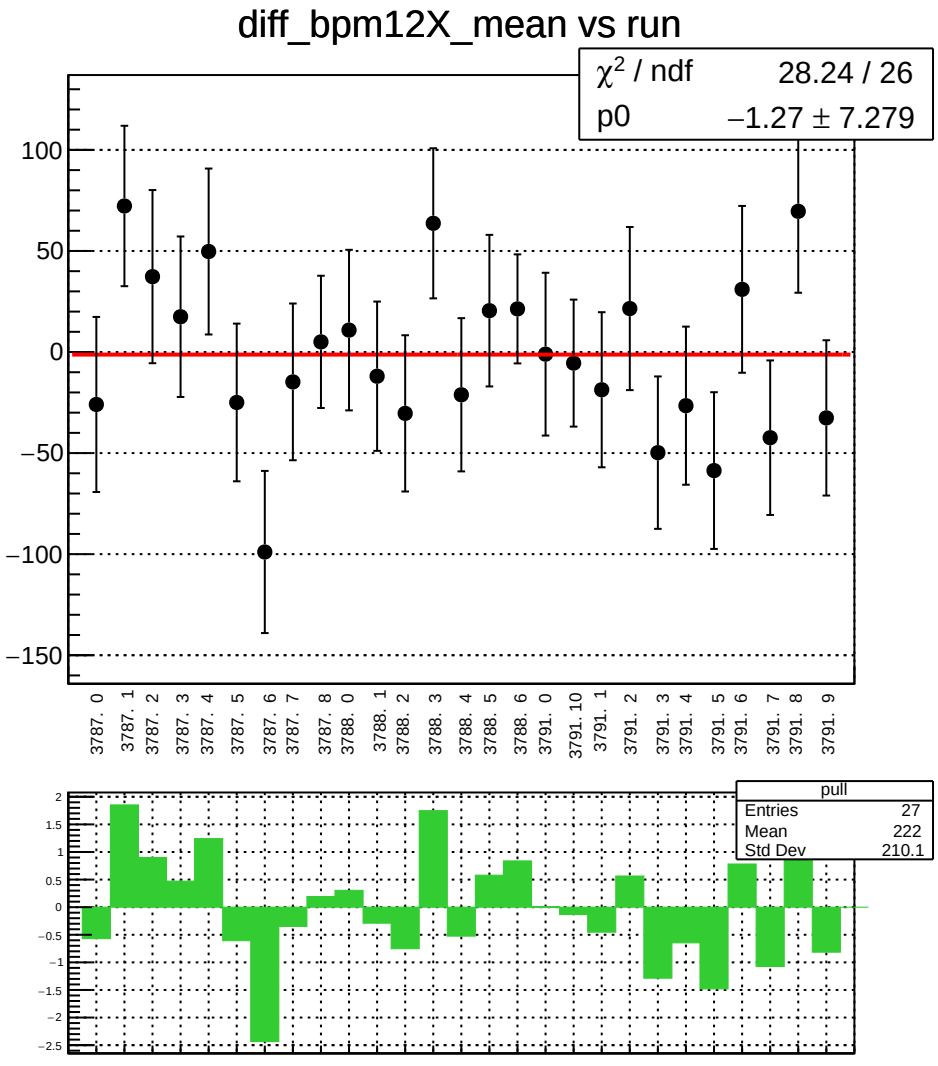

pull1D
Entries 27
Mean −0.01214
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

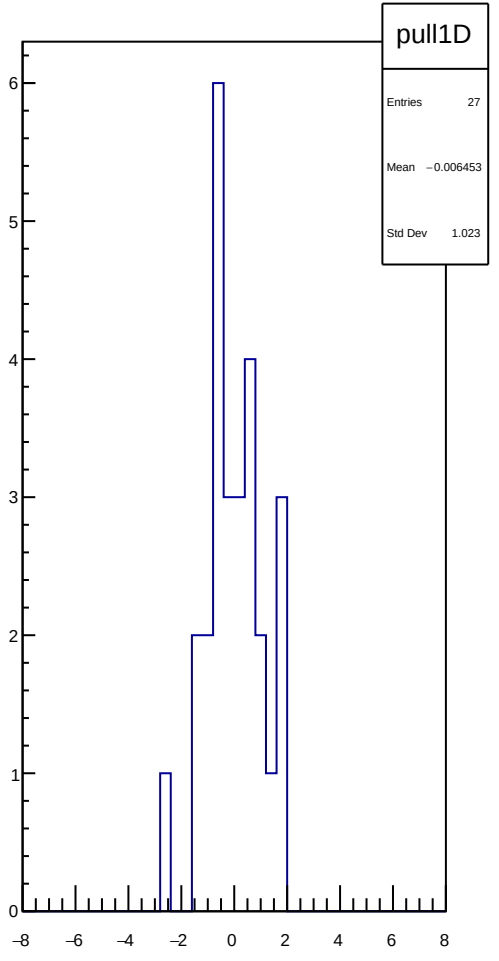

diff_bpm11X_rms vs run
χ² / ndf 376.2 / 26
p0 5136 ± 7.111
5500
5400
5300
5200
5100
5000
4900
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

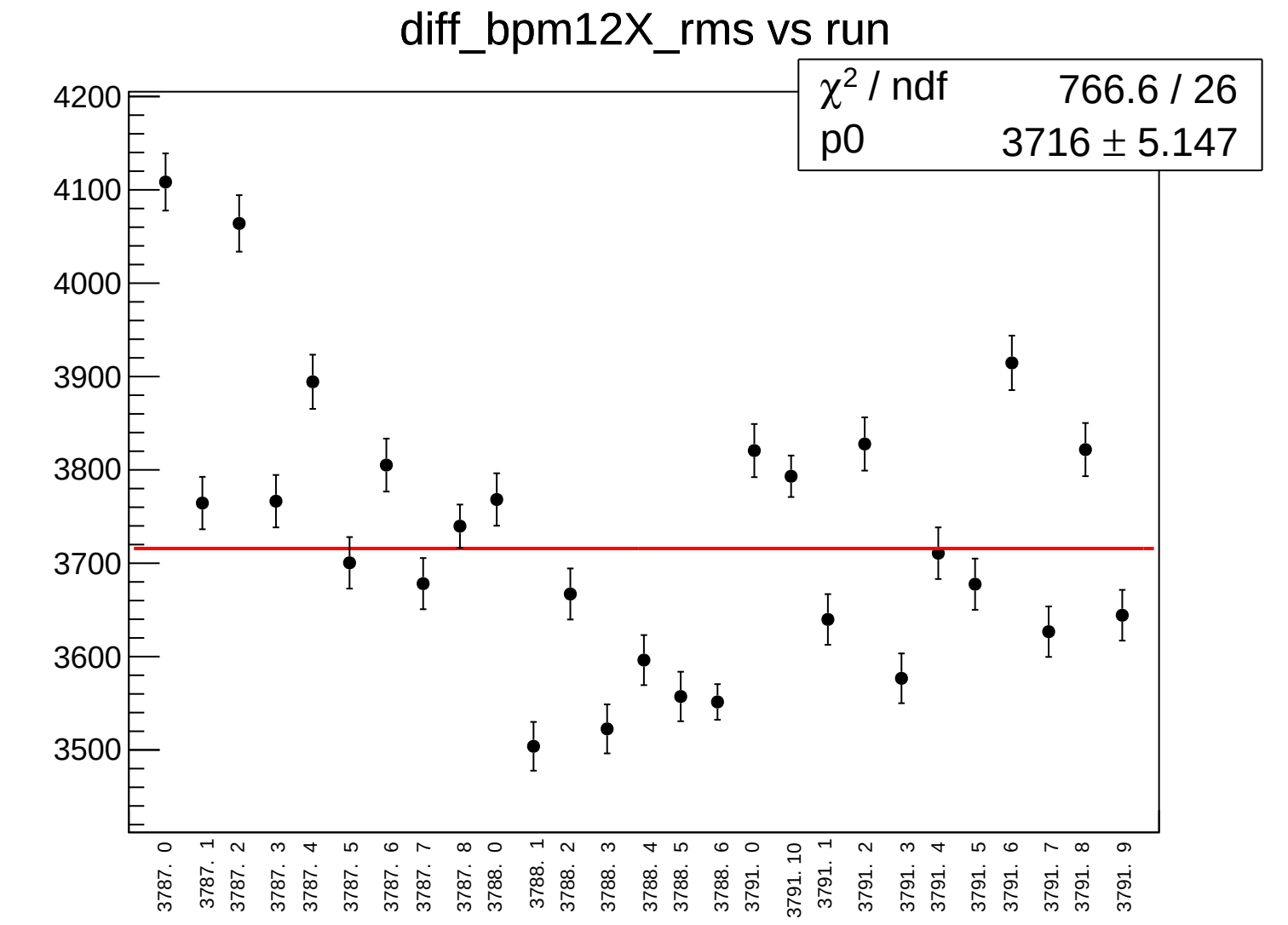

diff_bpm11Y_mean vs run
χ² / ndf 27.35 / 26
p0 2.97 ± 4.151
80
60
40
20
0
−20
−40
−60
−80
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 135.8
Std Dev 123.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

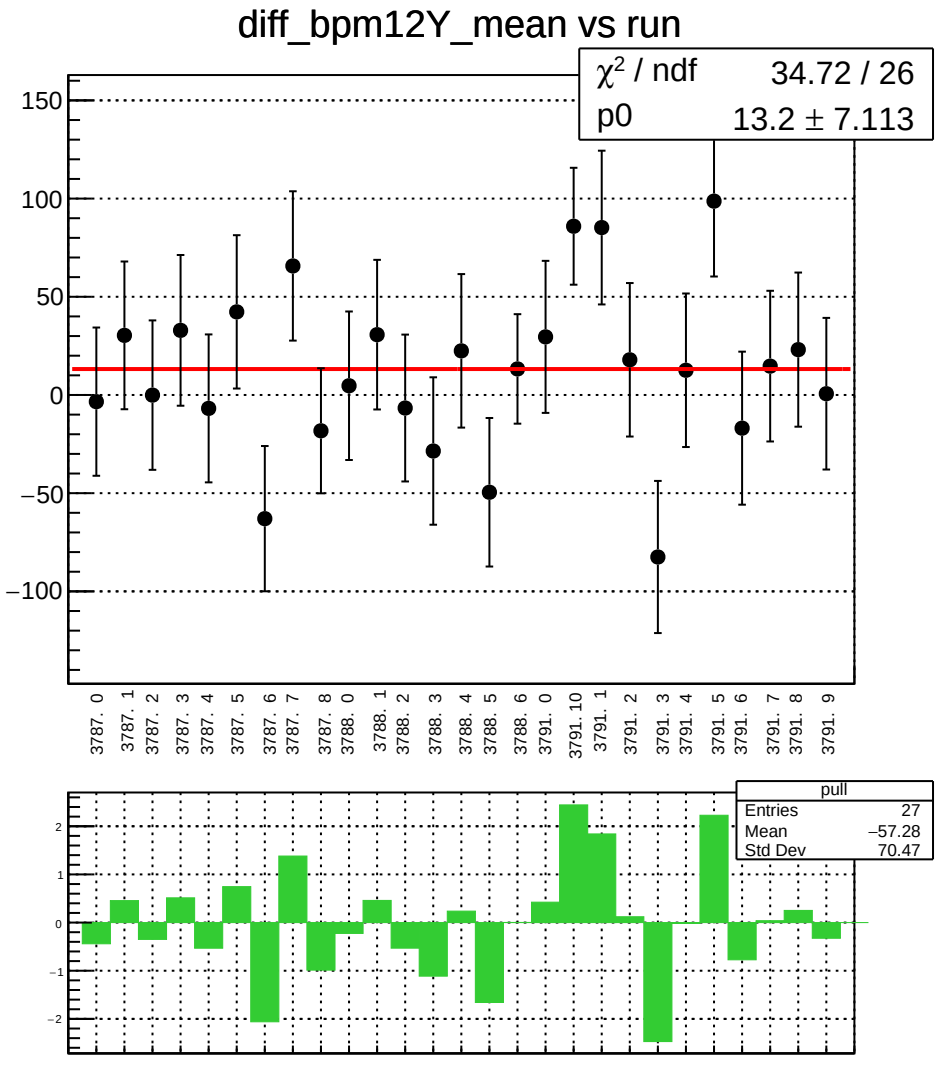

pull1D
Entries 27
Mean −0.01238
Std Dev 1.006
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

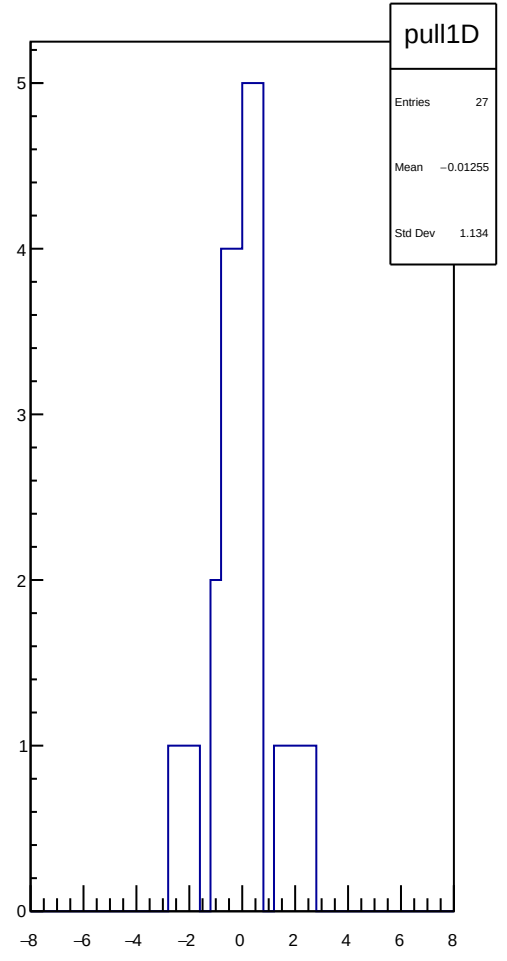

diff_bpm11Y_rms vs run
χ² / ndf 1283 / 26
p0 2118 ± 2.935
2300
2250
2200
2150
2100
2050
2000
1950
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

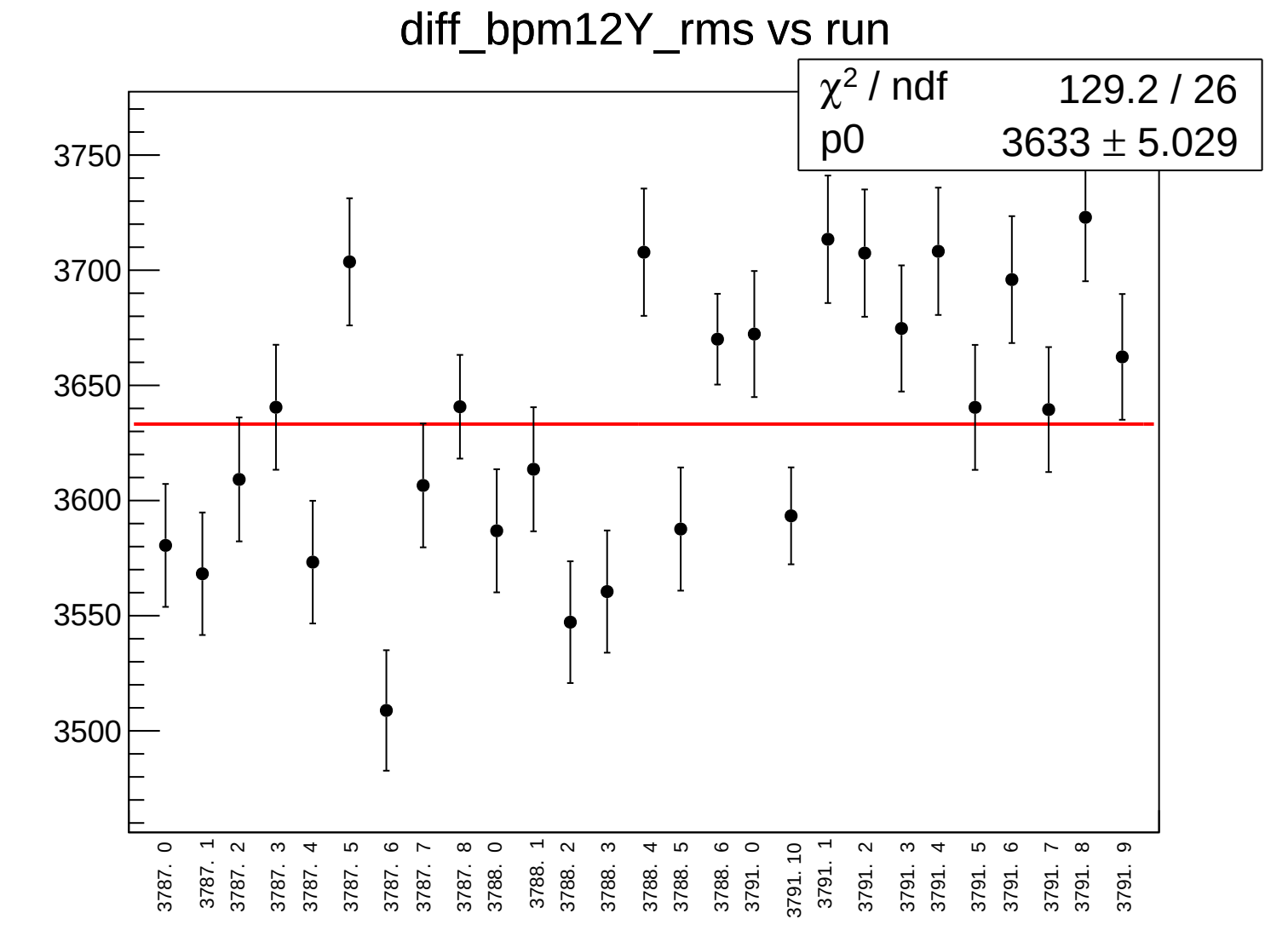

diff_bpm12X_mean vs run
χ² / ndf 28.24 / 26
p0 −1.27 ± 7.279
100
50
0
−50
−100
−150
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 222
Std Dev 210.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

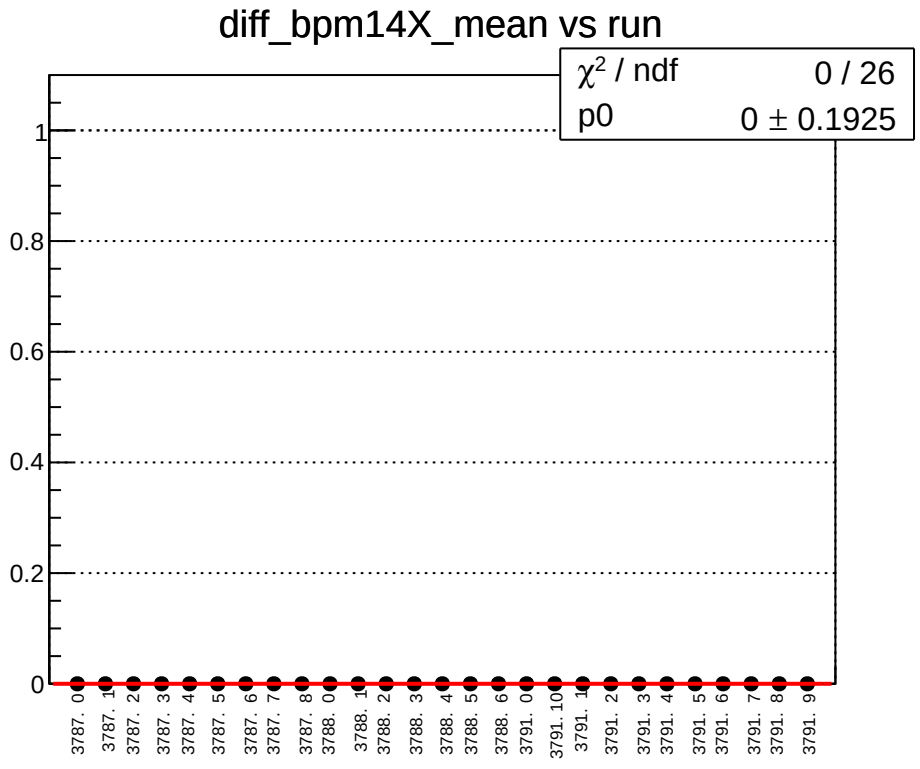

pull1D
Entries 27
Mean −0.006453
Std Dev 1.023
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

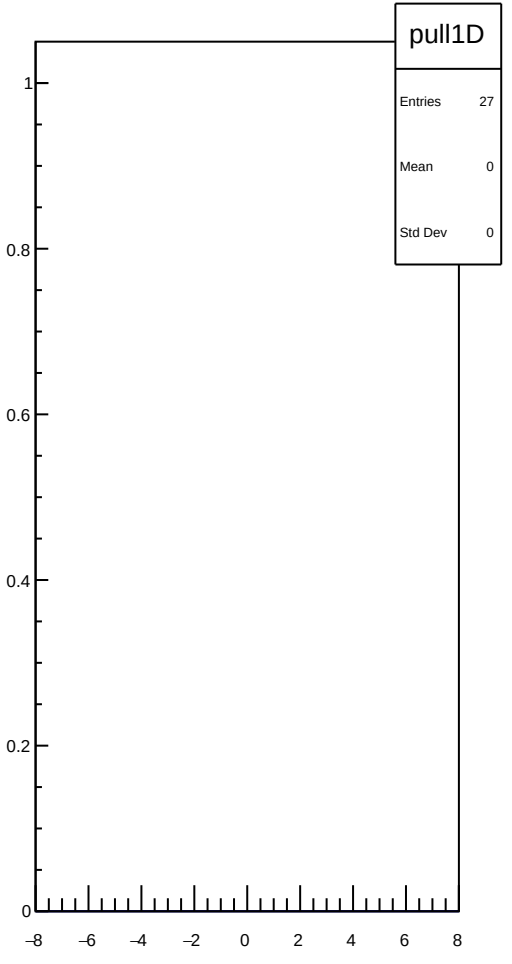

diff_bpm12X_rms vs run
χ² / ndf 766.6 / 26
p0 3716 ± 5.147
4200
4100
4000
3900
3800
3700
3600
3500
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

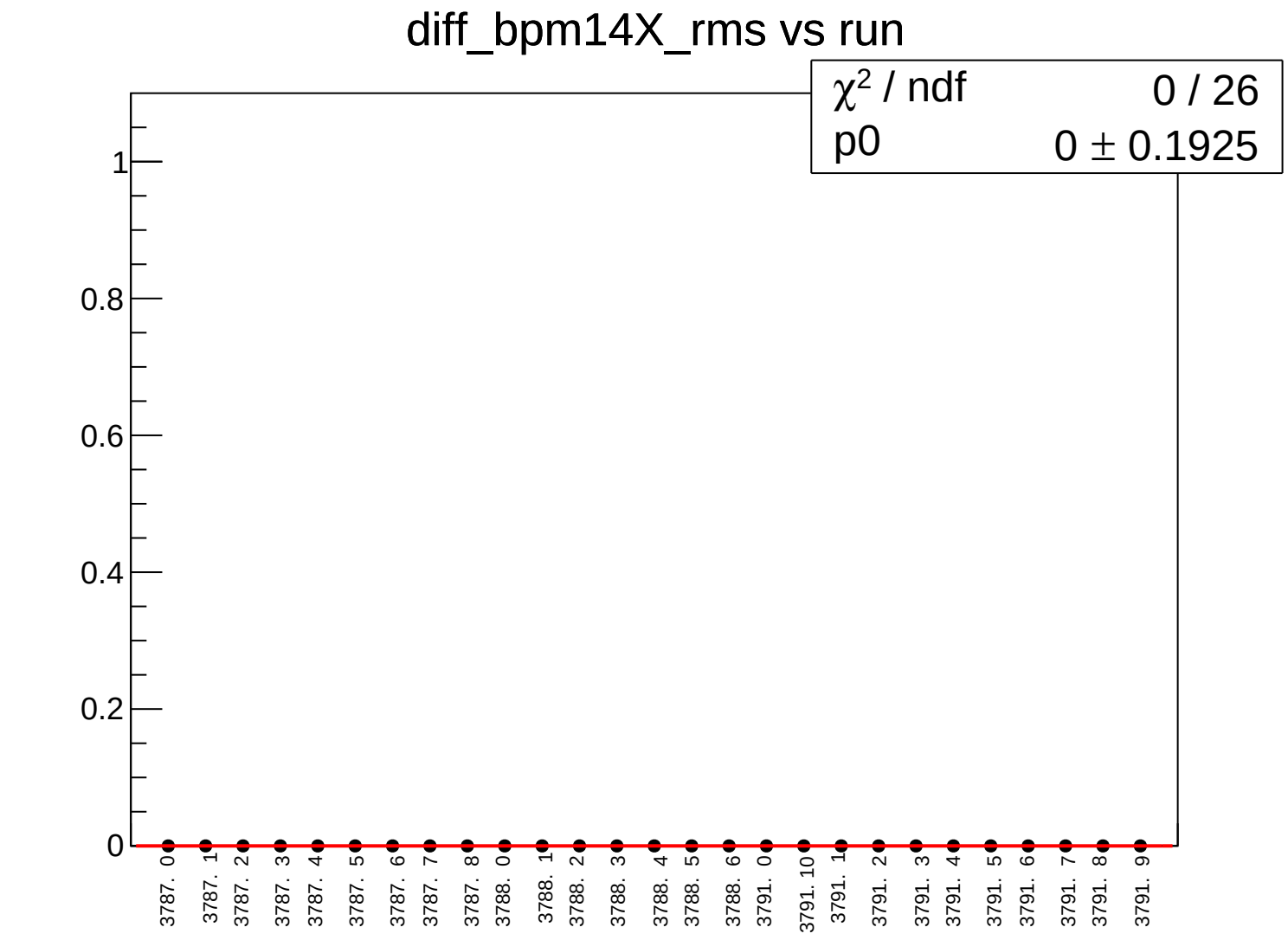

diff_bpm12Y_mean vs run
χ² / ndf 34.72 / 26
p0 13.2 ± 7.113
150
100
50
0
−50
−100
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −57.28
Std Dev 70.47
2
1
0
−1
−2

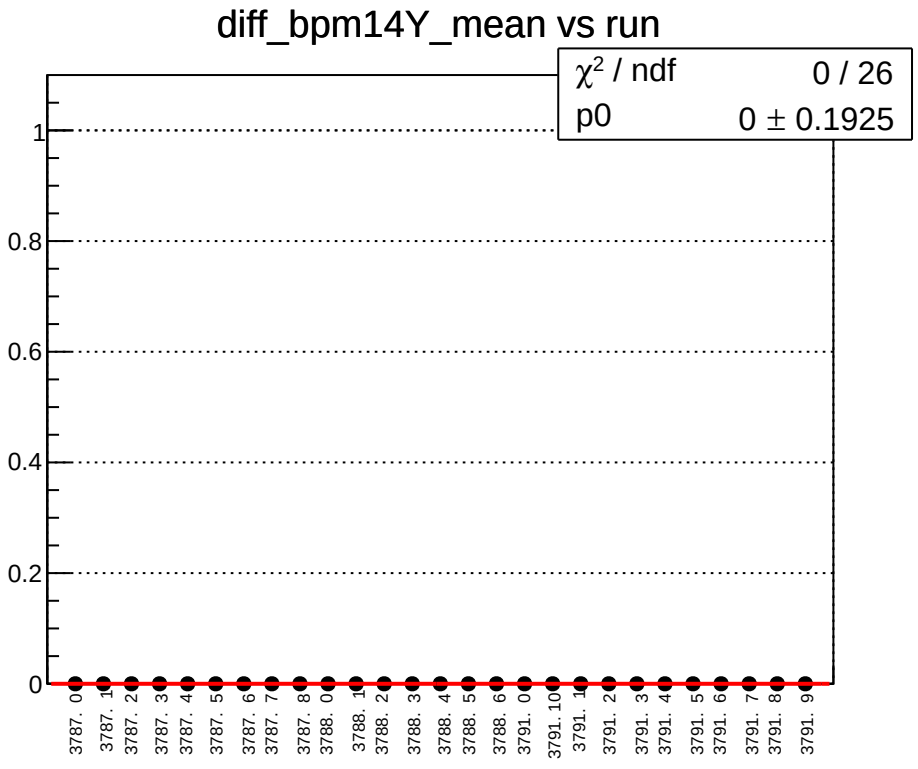

pull1D
Entries 27
Mean −0.01255
Std Dev 1.134
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

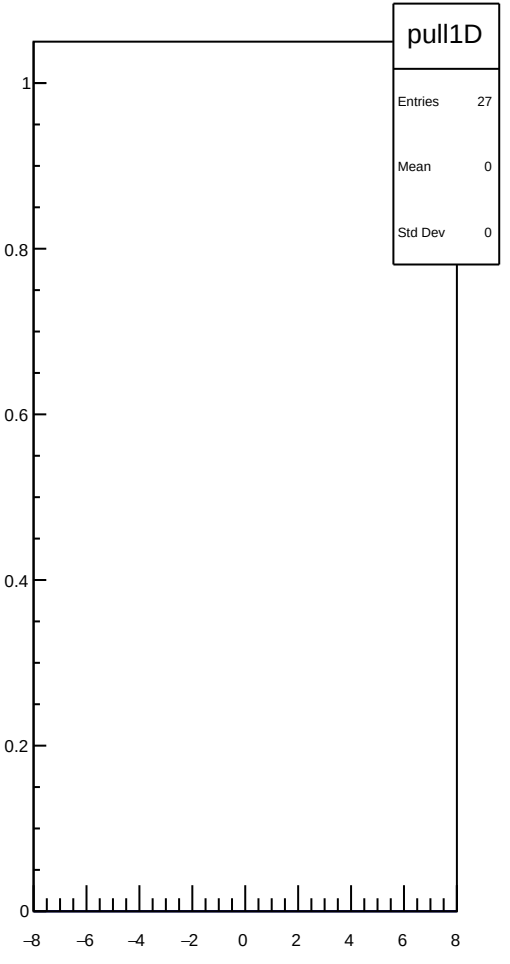

diff_bpm12Y_rms vs run
χ² / ndf 129.2 / 26
p0 3633 ± 5.029
3750
3700
3650
3600
3550
3500
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

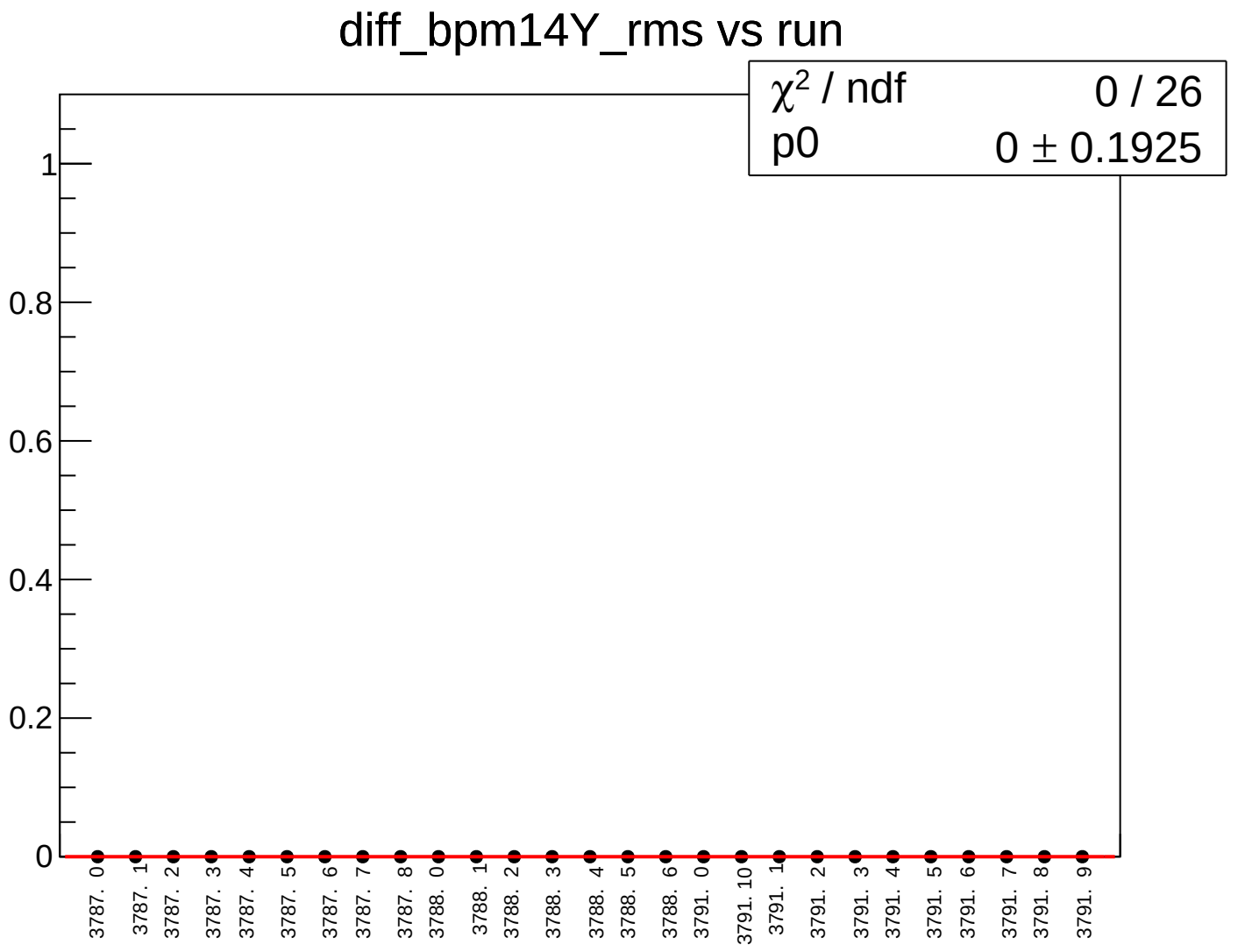

diff_bpm14X_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

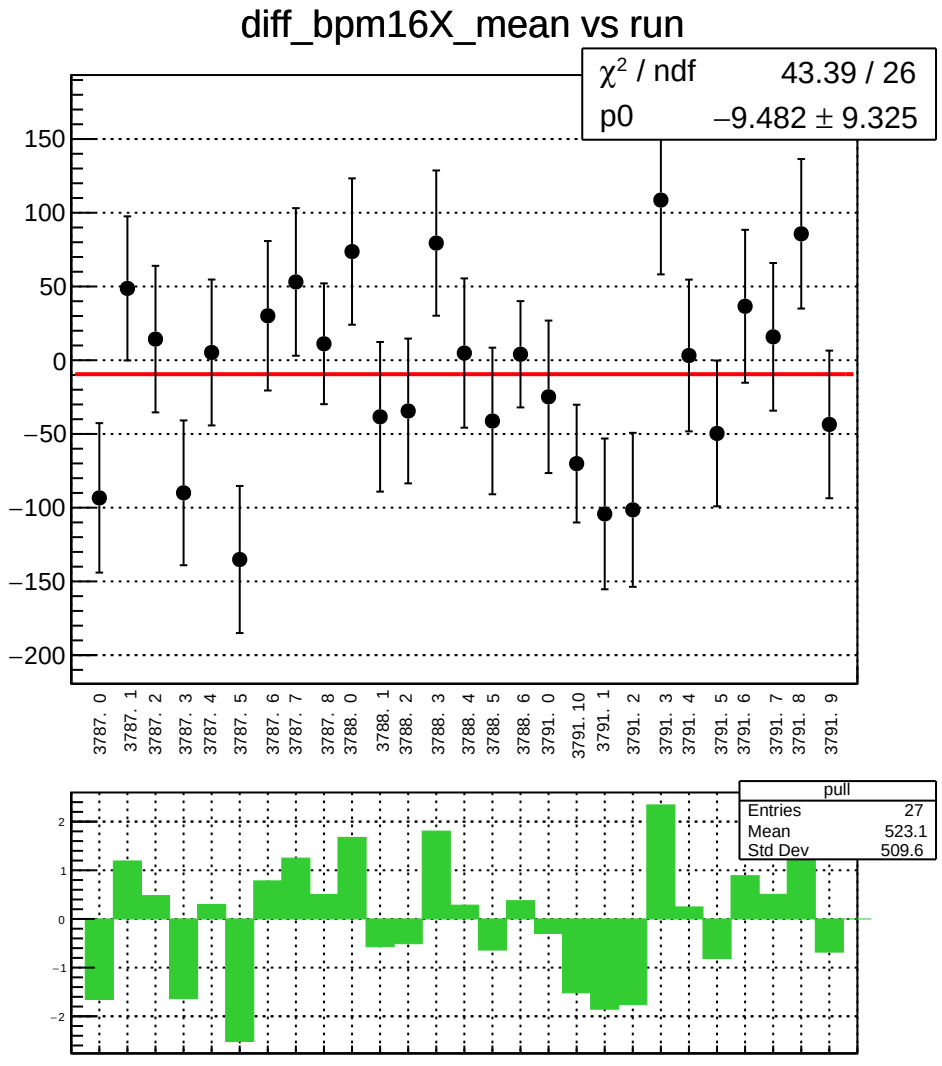

pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

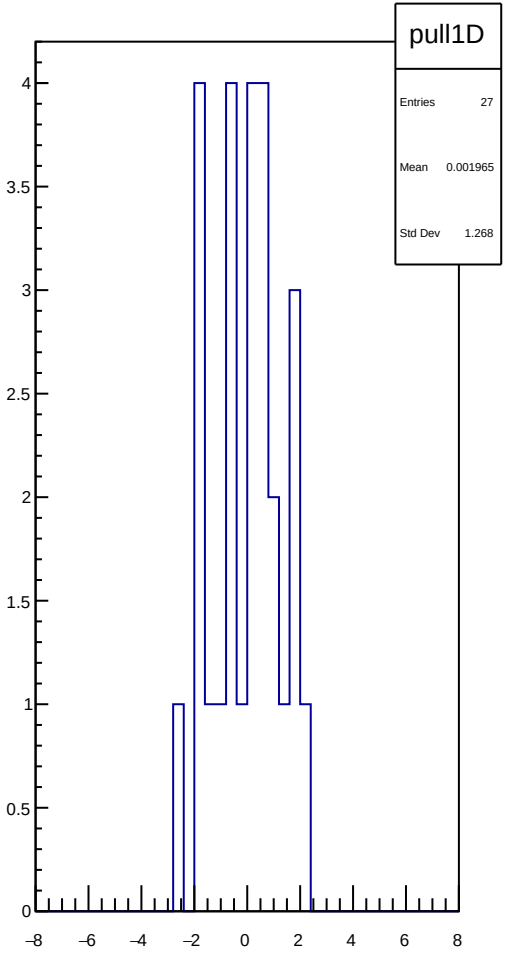

diff_bpm14X_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

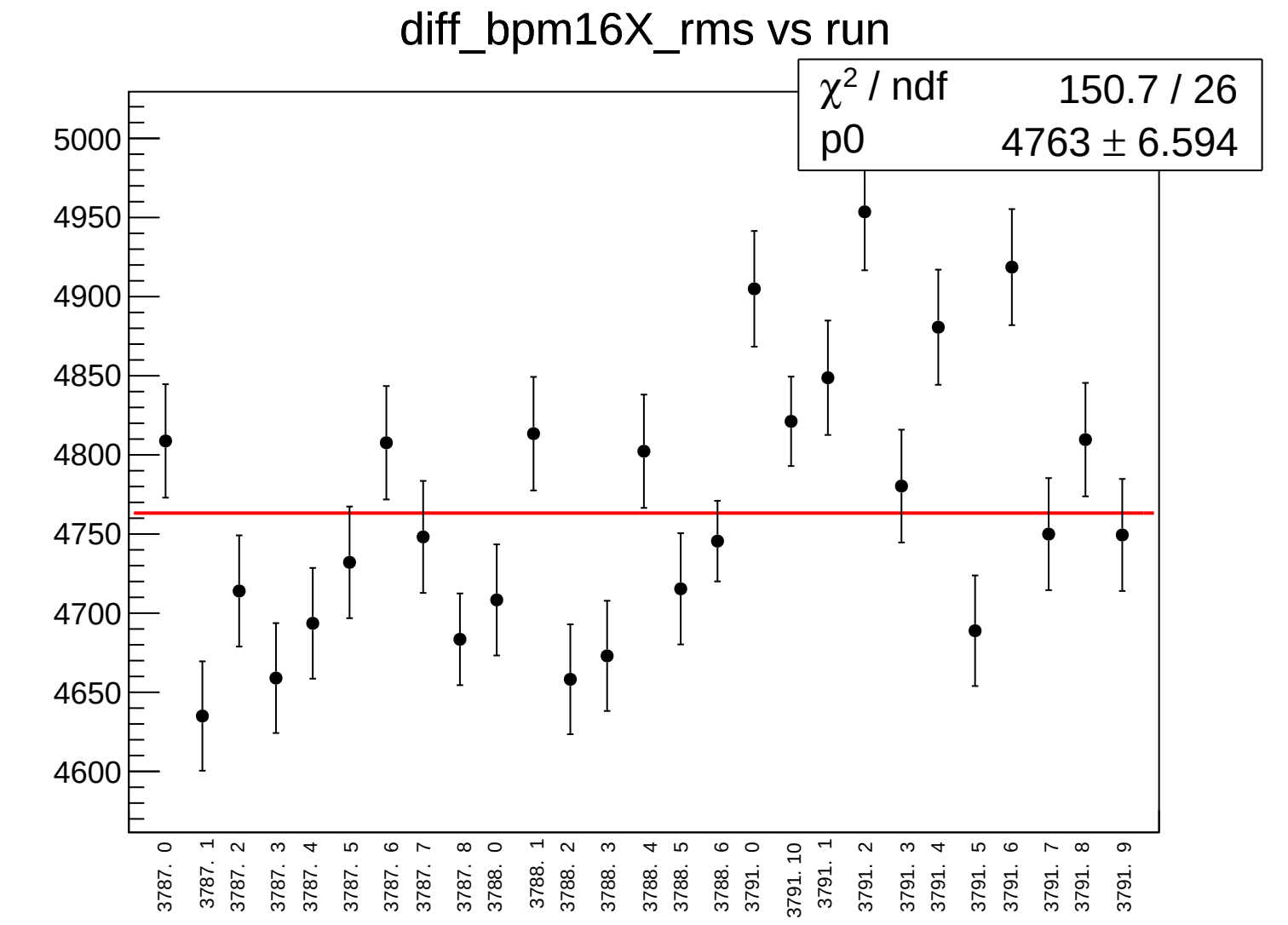

diff_bpm14Y_mean vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

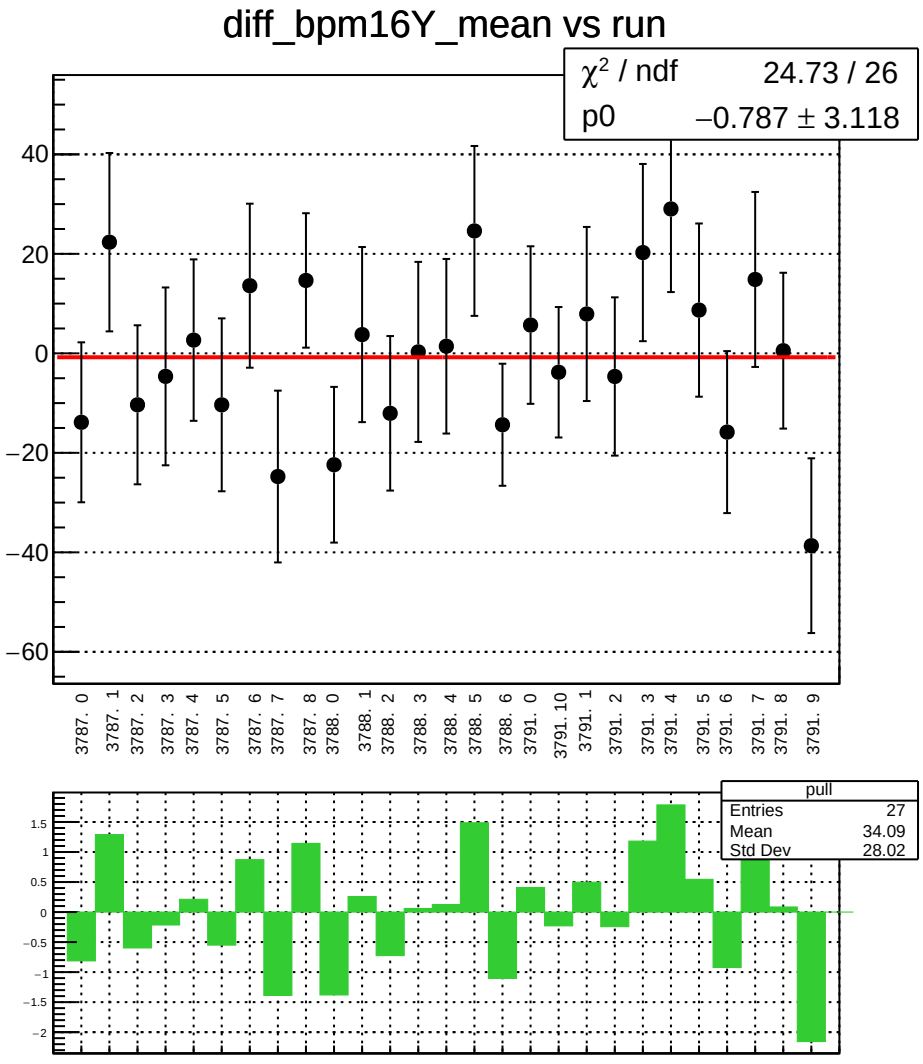

pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

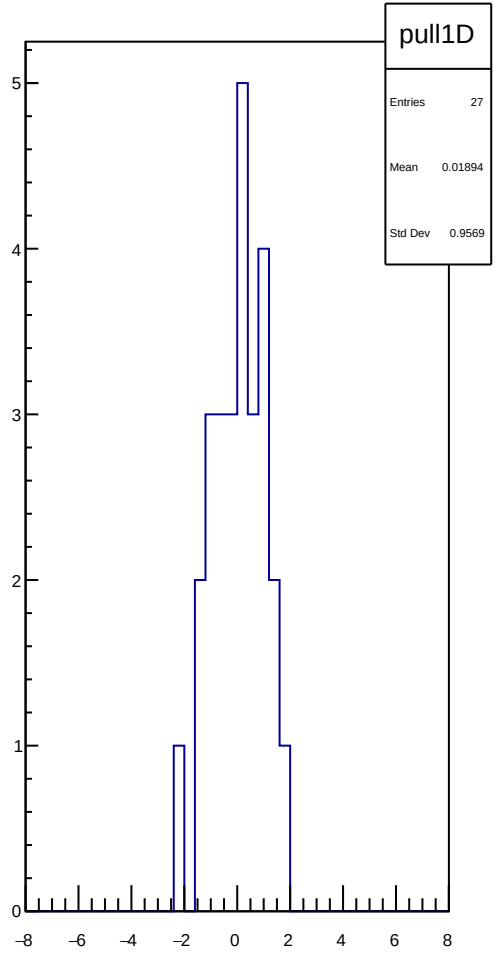

diff_bpm14Y_rms vs run
χ² / ndf 0 / 26
p0 0 ± 0.1925
1
0.8
0.6
0.4
0.2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

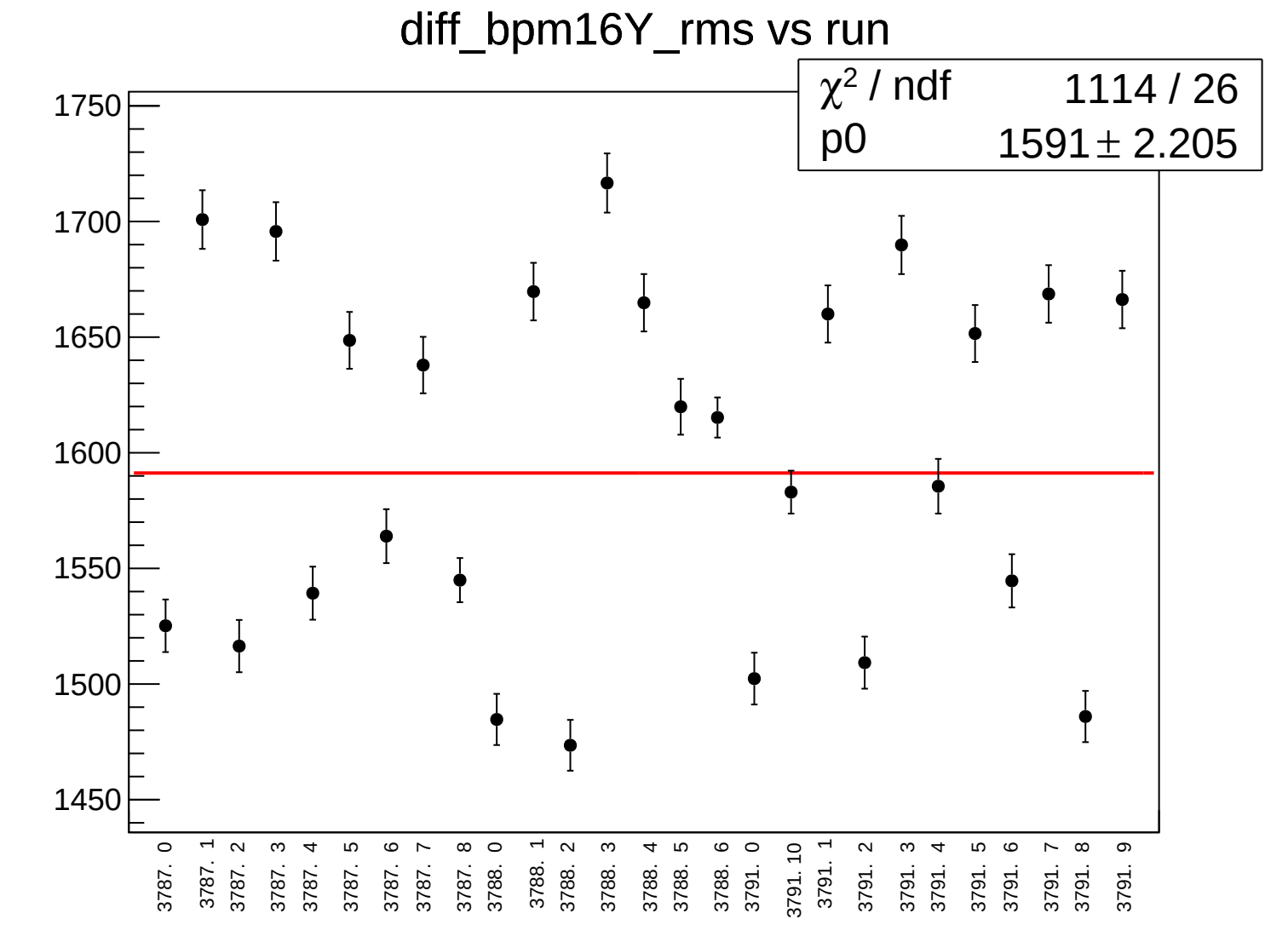

diff_bpm16X_mean vs run
χ² / ndf 43.39 / 26
p0 −9.482 ± 9.325
150
100
50
0
−50
−100
−150
−200
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 523.1
Std Dev 509.6
2
1
0
−1
−2

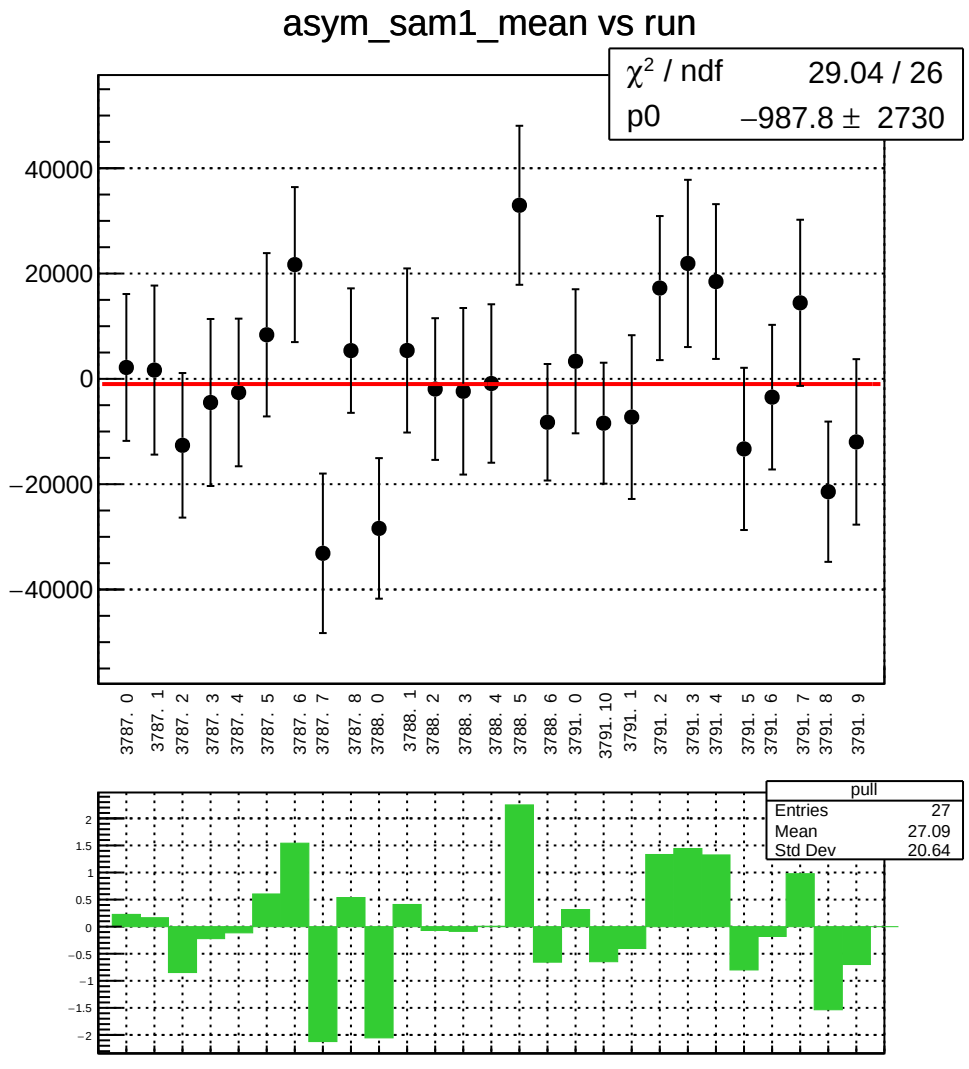

pull1D
Entries 27
Mean 0.001965
Std Dev 1.268
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

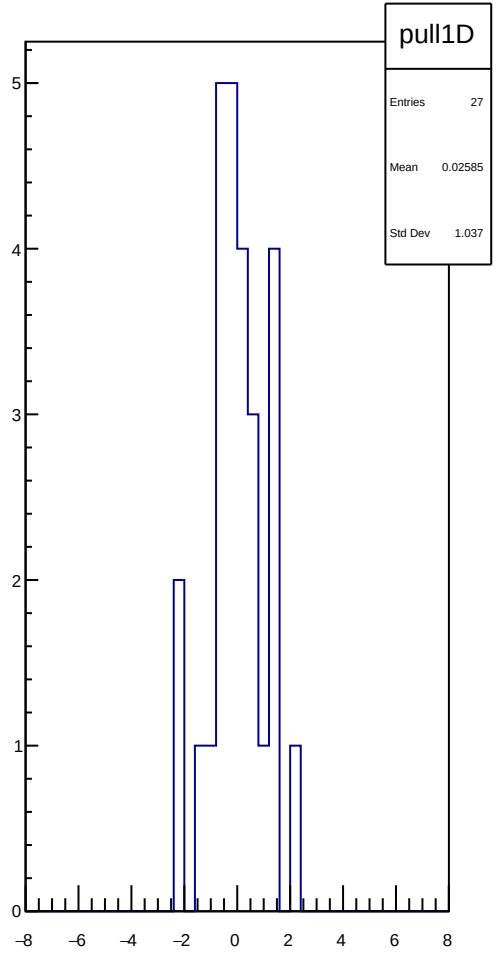

diff_bpm16X_rms vs run
χ² / ndf 150.7 / 26
p0 4763 ± 6.594
5000
4950
4900
4850
4800
4750
4700
4650
4600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

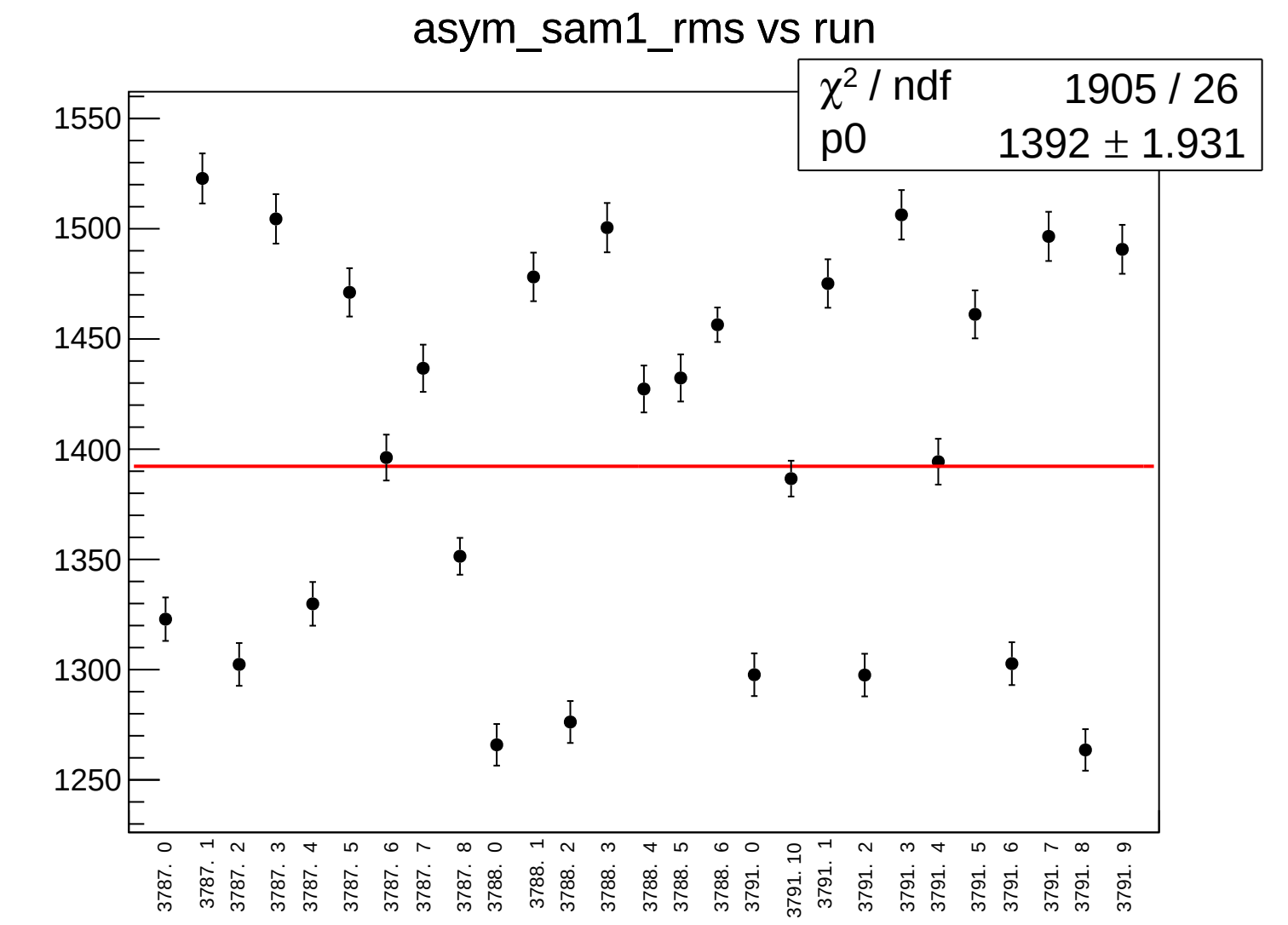

diff_bpm16Y_mean vs run
χ² / ndf 24.73 / 26
p0 −0.787 ± 3.118
40
20
0
−20
−40
−60
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 34.09
Std Dev 28.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2

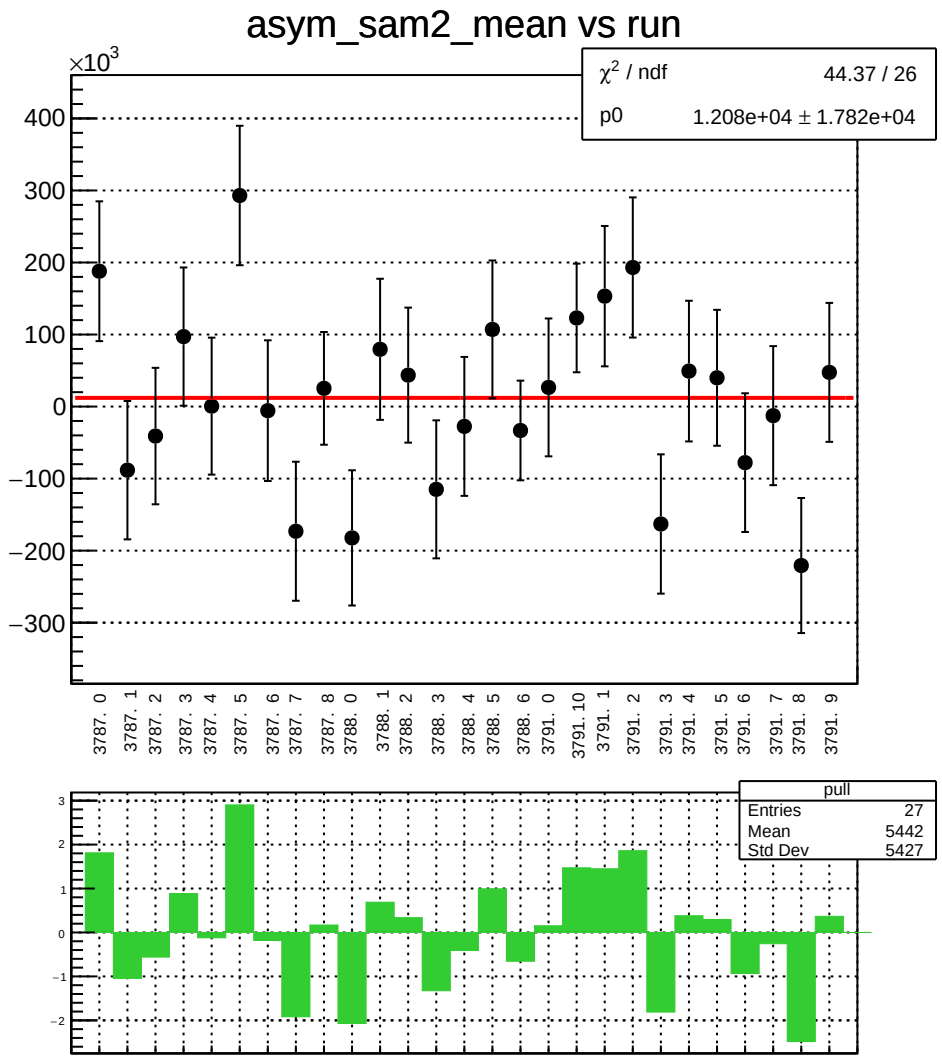

pull1D
Entries 27
Mean 0.01894
Std Dev 0.9569
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

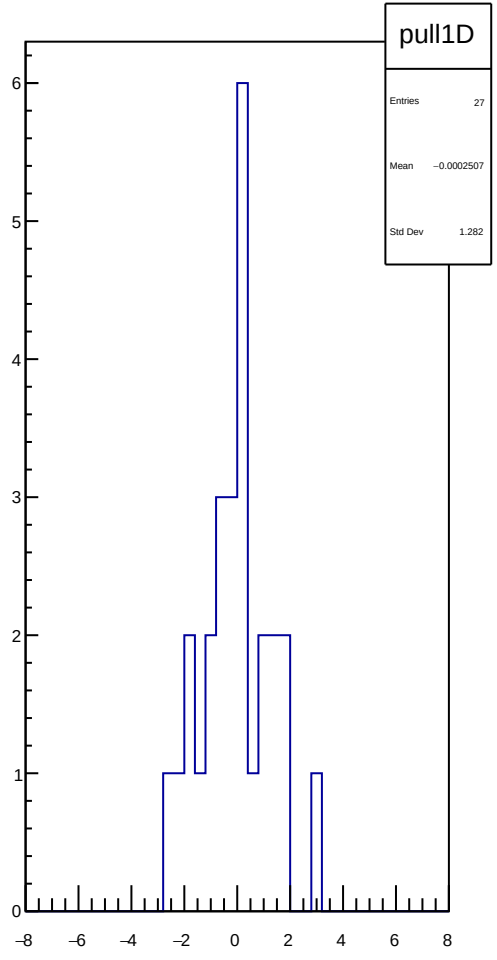

diff_bpm16Y_rms vs run
χ² / ndf 1114 / 26
p0 1591 ± 2.205
1750
1700
1650
1600
1550
1500
1450
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

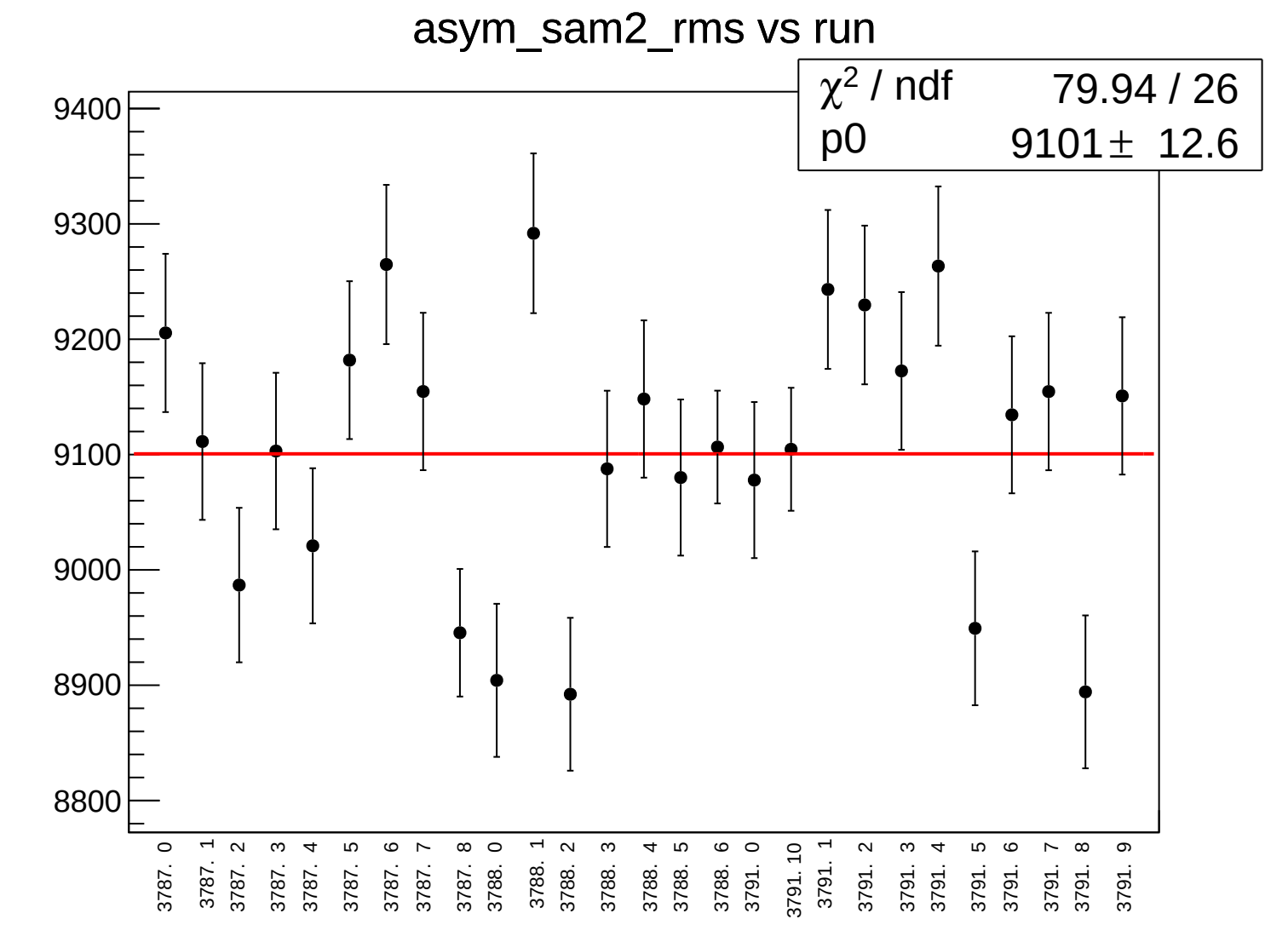

asym_sam1_mean vs run
χ² / ndf 29.04 / 26
p0 −987.8 ± 2730
40000
20000
0
−20000
−40000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 27.09
Std Dev 20.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

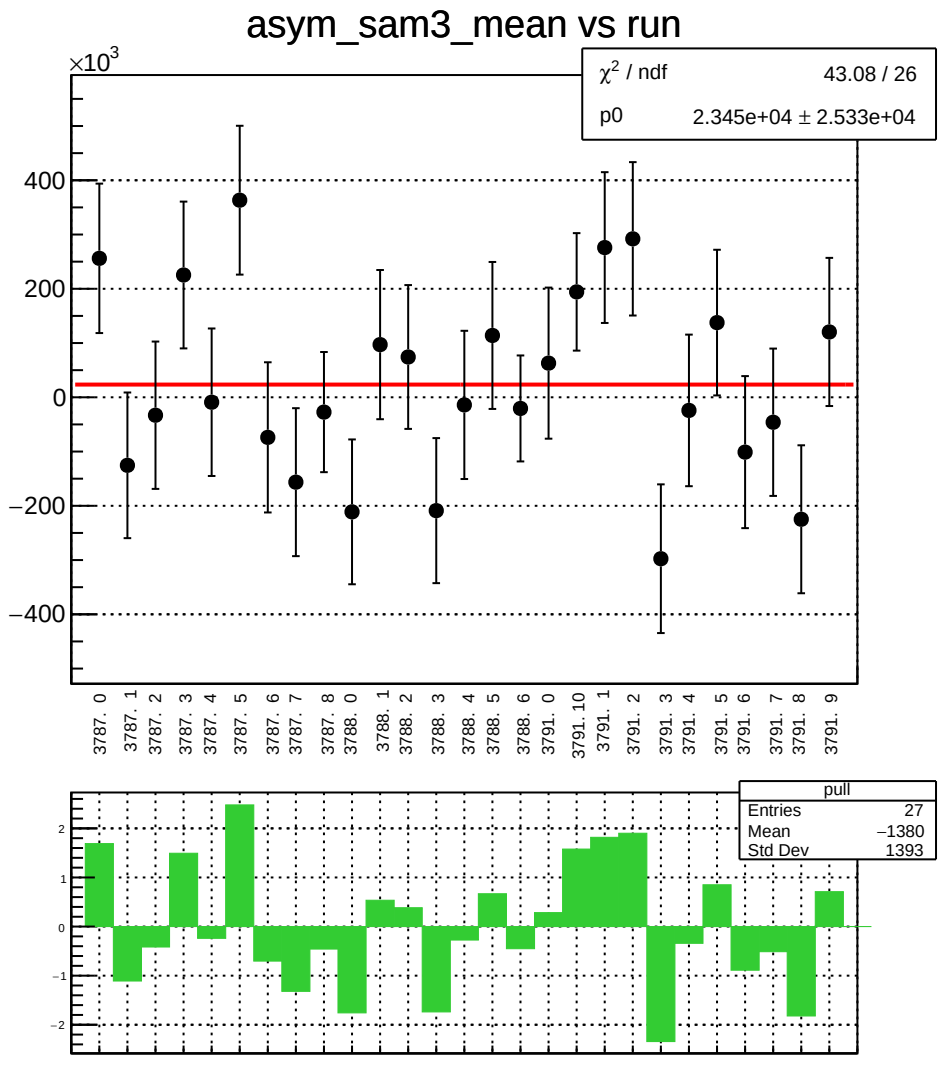

pull1D
Entries 27
Mean 0.02585
Std Dev 1.037
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

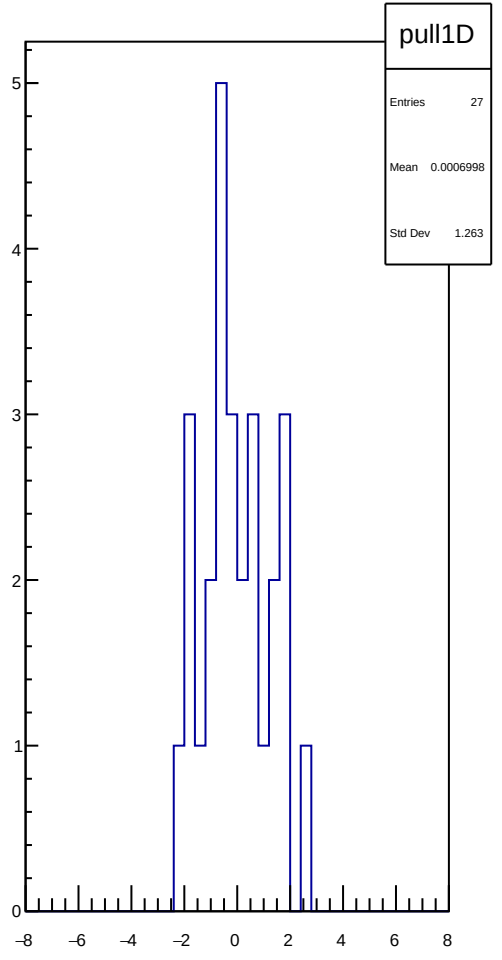

asym_sam1_rms vs run
χ² / ndf 1905 / 26
p0 1392 ± 1.931
1550
1500
1450
1400
1350
1300
1250
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

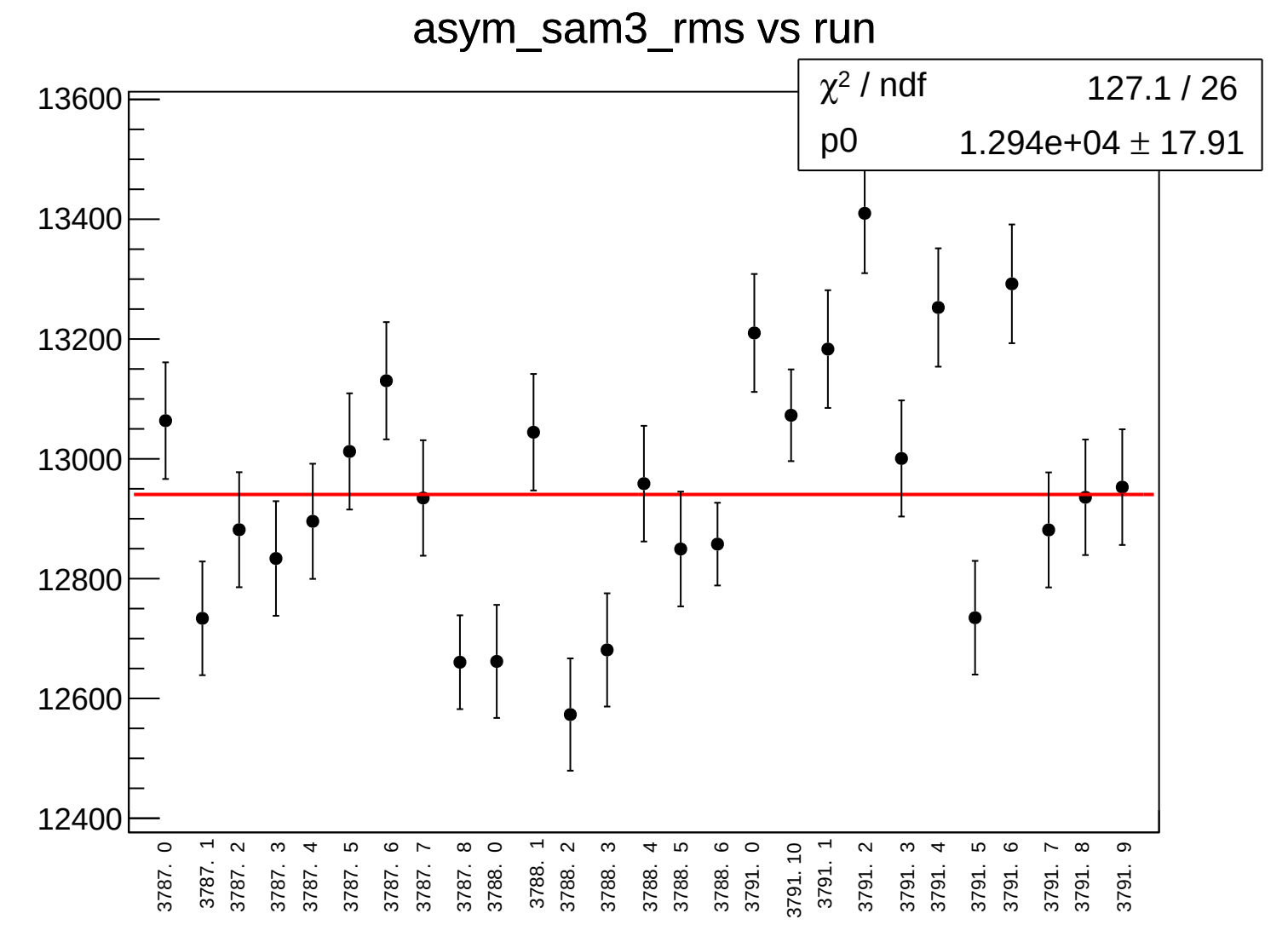

asym_sam2_mean vs run
×10^3
χ² / ndf 44.37 / 26
p0 1.208e+04 ± 1.782e+04
400
300
200
100
0
−100
−200
−300
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 5442
Std Dev 5427
3
2
1
0
−1
−2

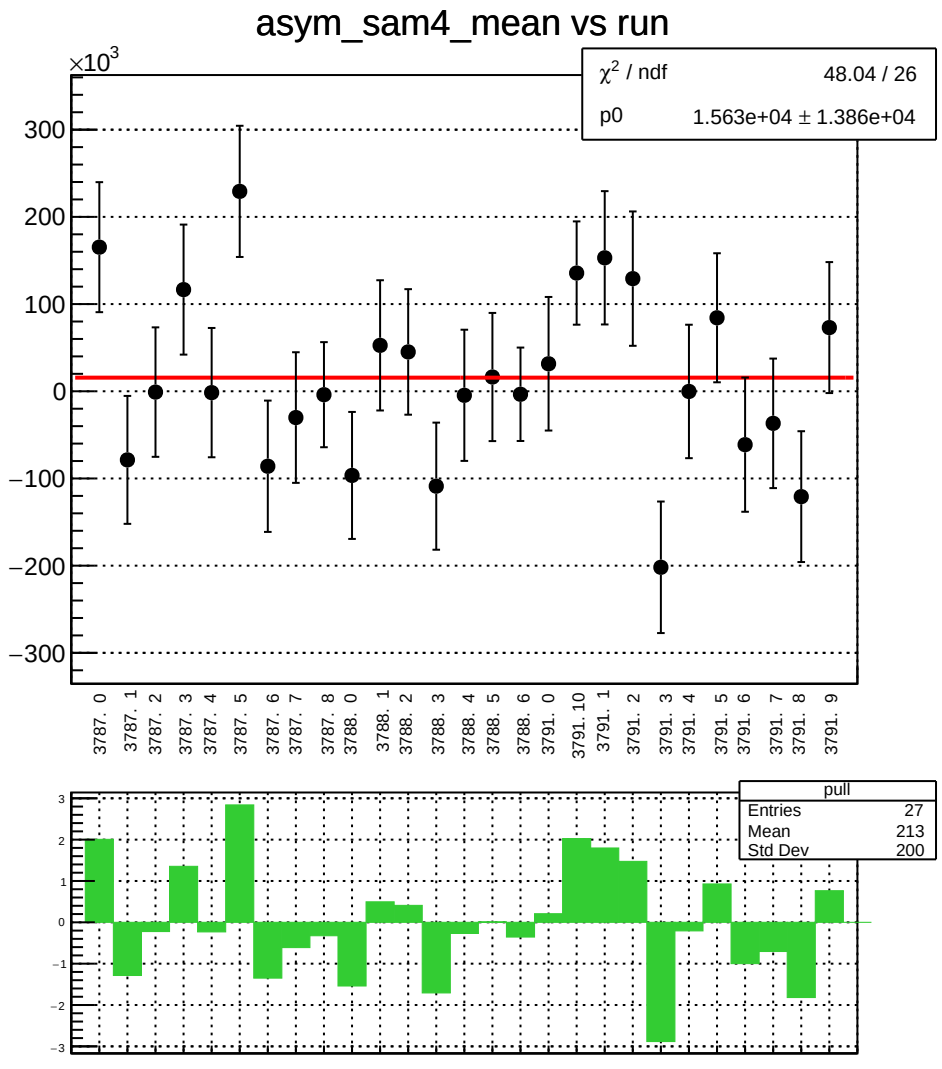

pull1D
Entries 27
Mean −0.0002507
Std Dev 1.282
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

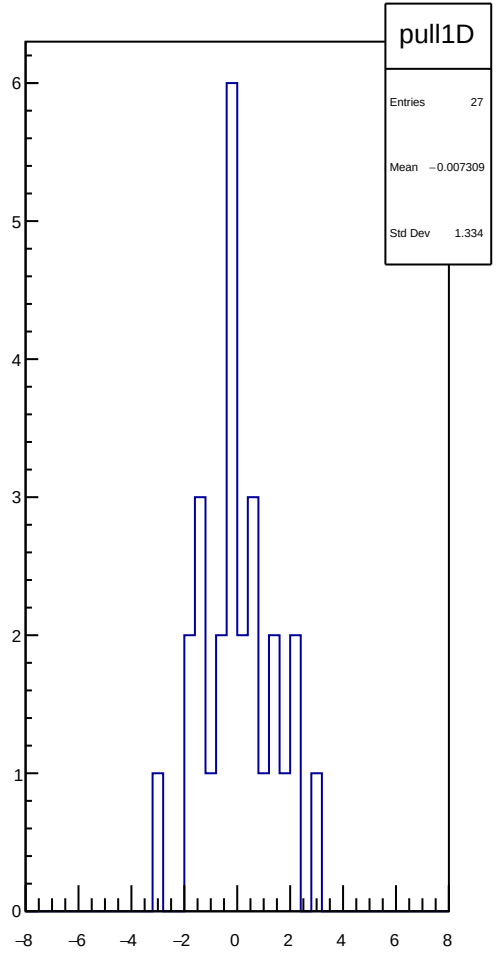

asym_sam2_rms vs run
χ² / ndf 79.94 / 26
p0 9101 ± 12.6
9400
9300
9200
9100
9000
8900
8800
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

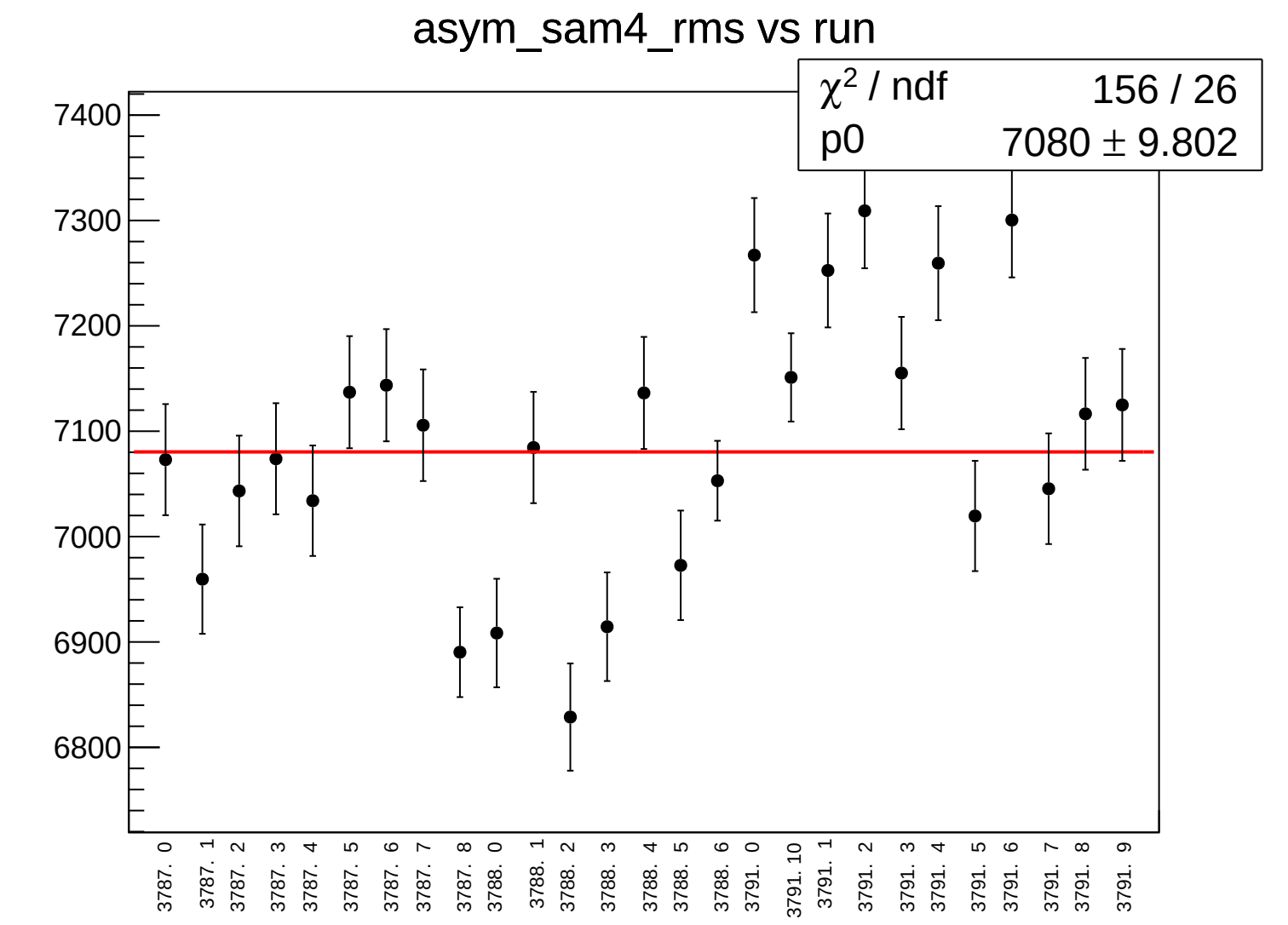

asym_sam3_mean vs run
×10^3
χ² / ndf 43.08 / 26
p0 2.345e+04 ± 2.533e+04
400
200
0
−200
−400
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −1380
Std Dev 1393
2
1
0
−1
−2

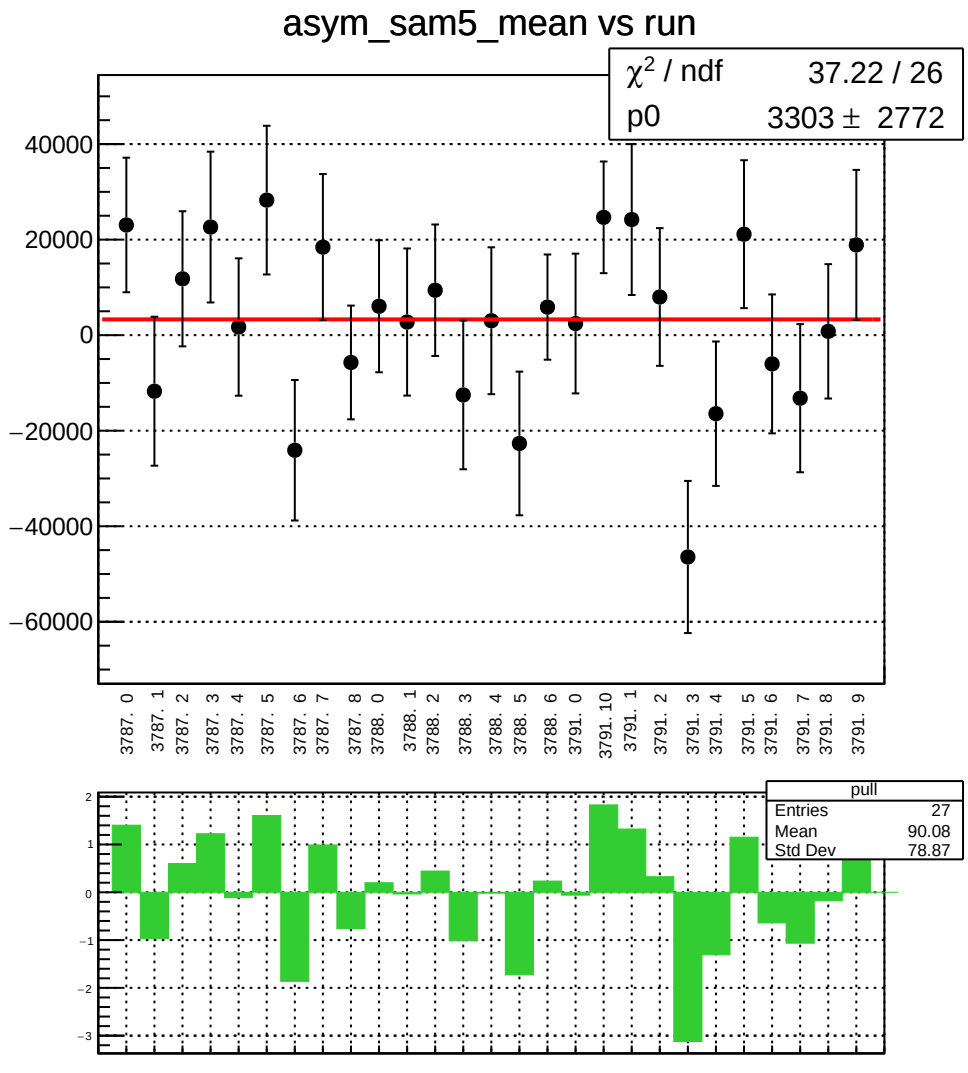

pull1D
Entries 27
Mean 0.0006998
Std Dev 1.263
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

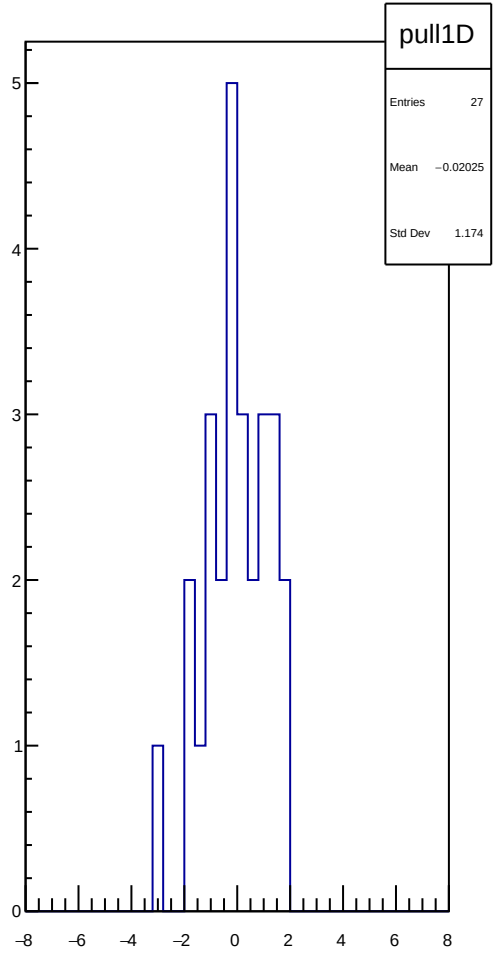

asym_sam3_rms vs run
χ² / ndf 127.1 / 26
p0 1.294e+04 ± 17.91
13600
13400
13200
13000
12800
12600
12400
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

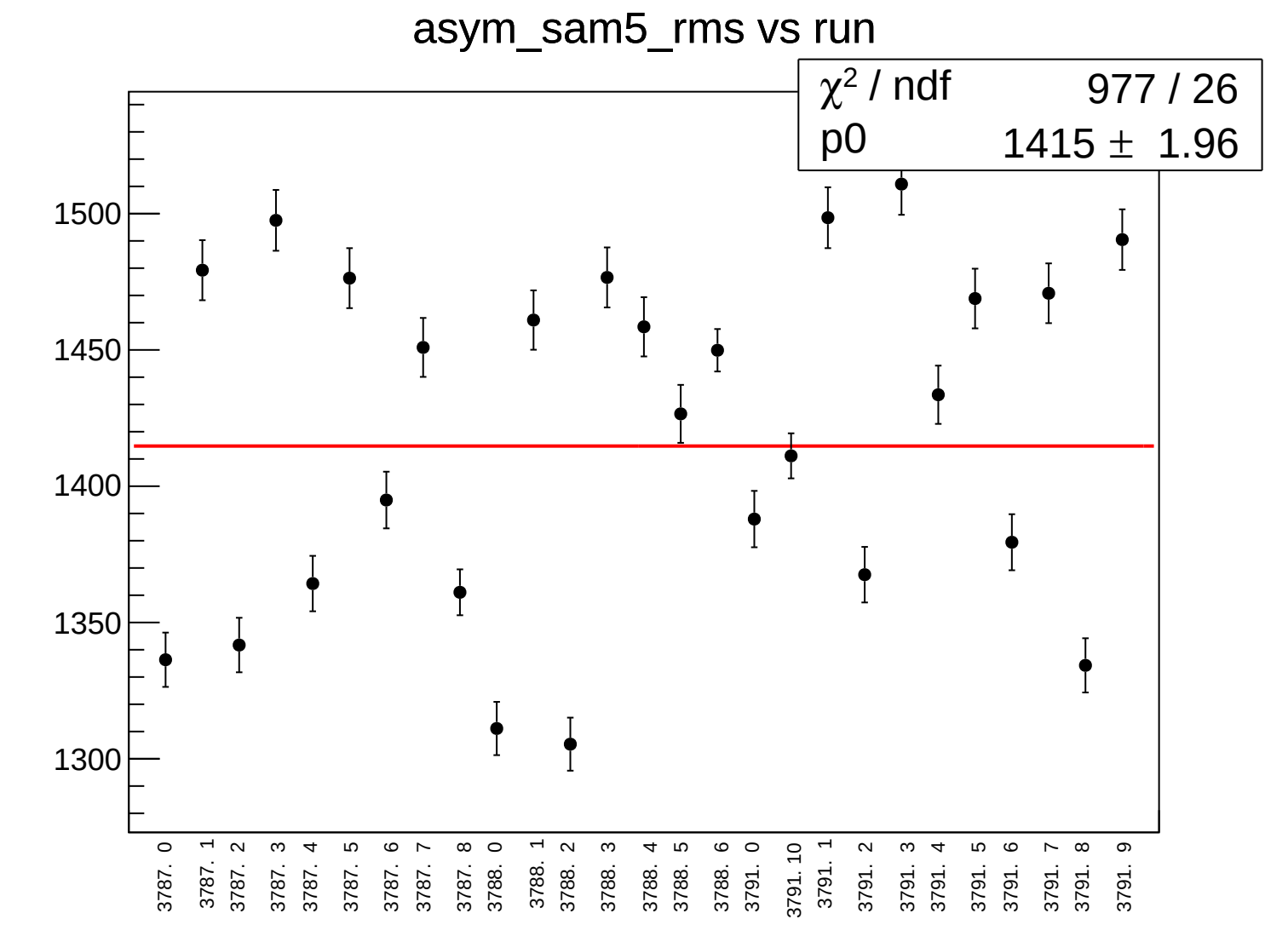

asym_sam4_mean vs run
×10^3
χ² / ndf 48.04 / 26
p0 1.563e+04 ± 1.386e+04
300
200
100
0
−100
−200
−300
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 213
Std Dev 200
3
2
1
0
−1
−2
−3

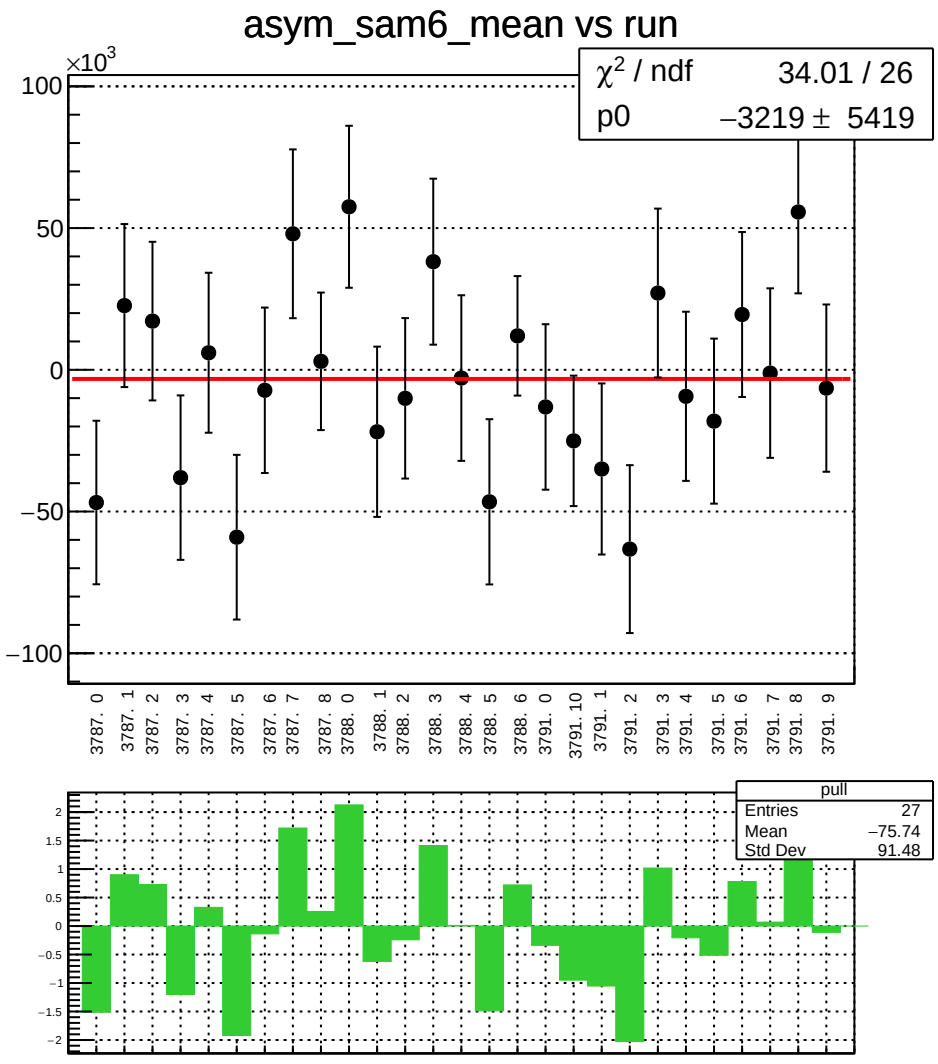

pull1D
Entries 27
Mean −0.007309
Std Dev 1.334
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

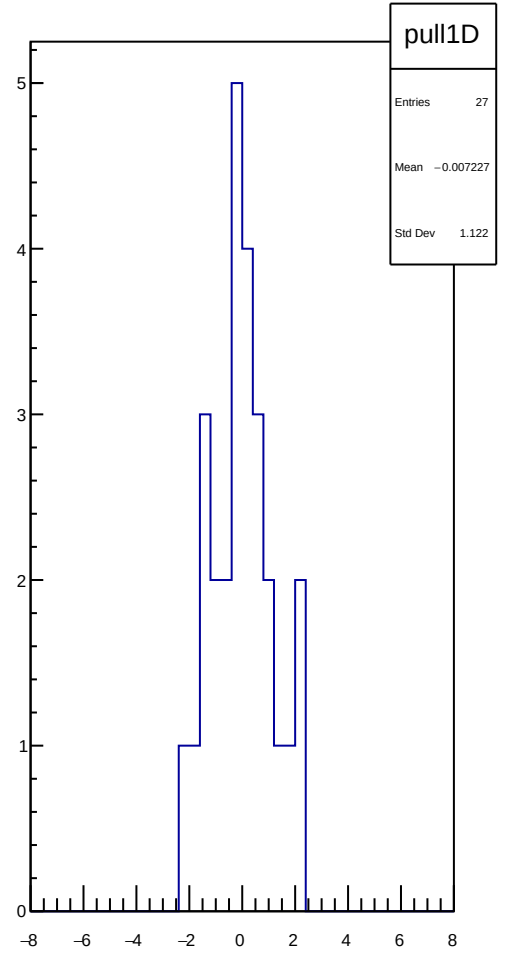

asym_sam4_rms vs run
χ² / ndf 156 / 26
p0 7080 ± 9.802
7400
7300
7200
7100
7000
6900
6800
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

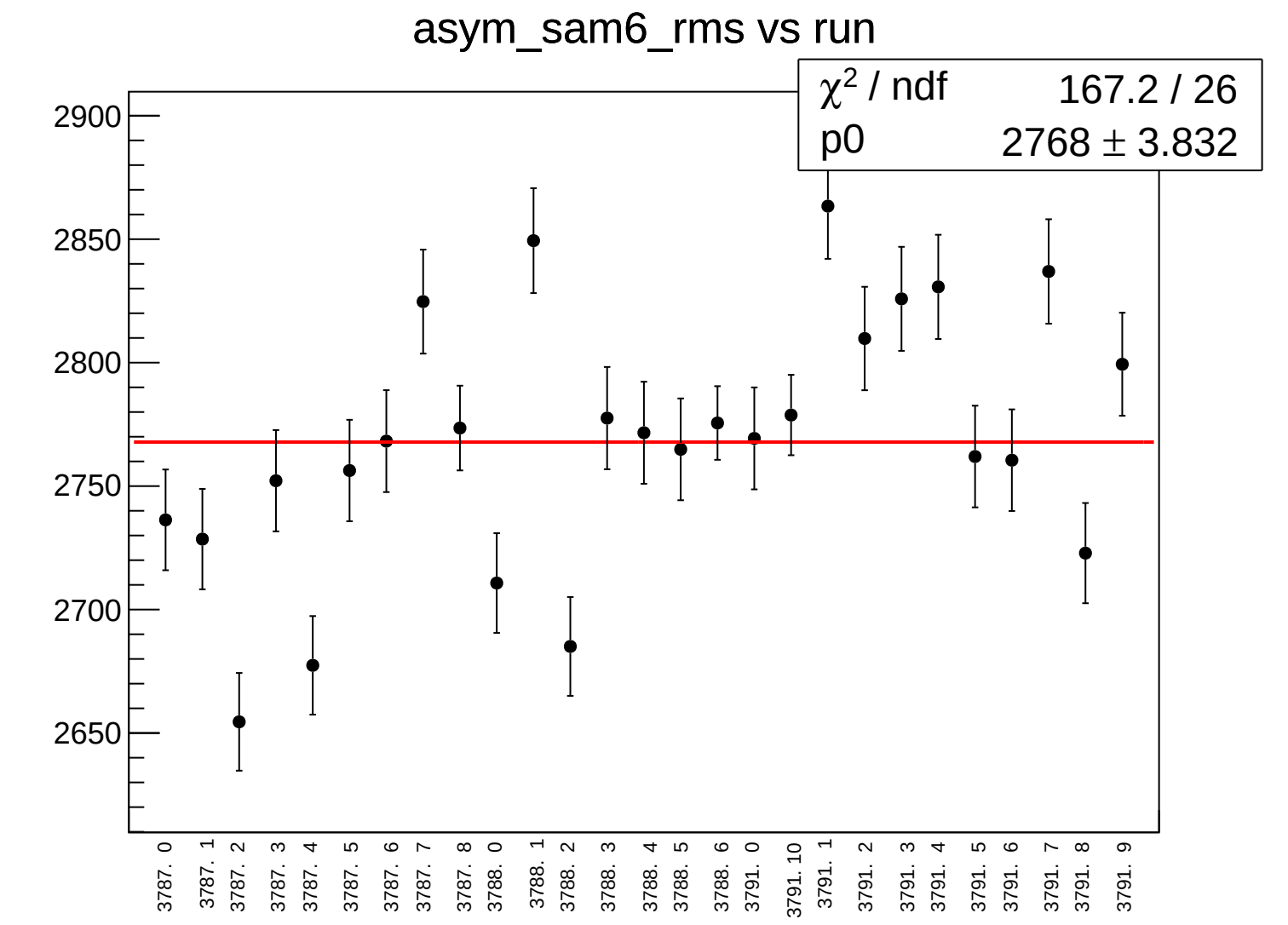

asym_sam5_mean vs run
χ² / ndf 37.22 / 26
p0 3303 ± 2772
40000
20000
0
−20000
−40000
−60000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 90.08
Std Dev 78.87
2
1
0
−1
−2
−3

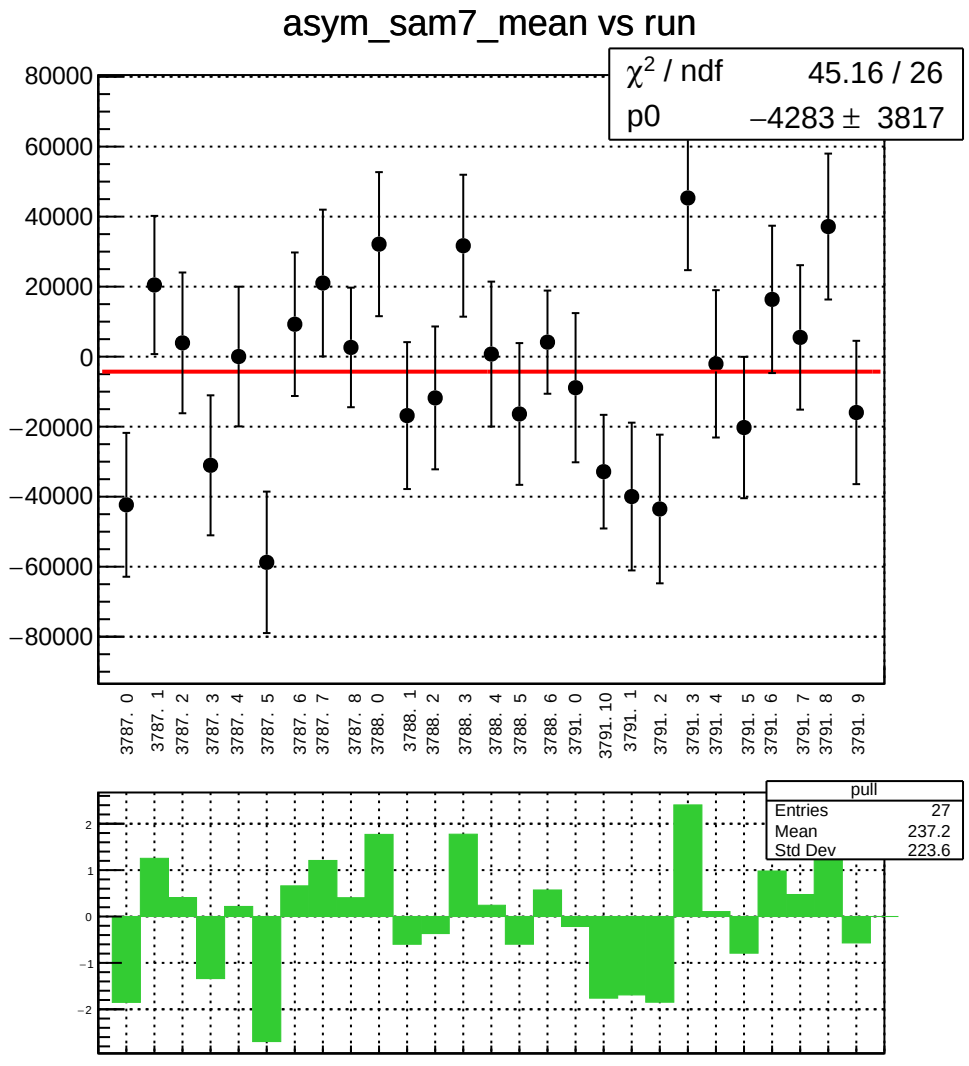

pull1D
Entries 27
Mean −0.02025
Std Dev 1.174
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

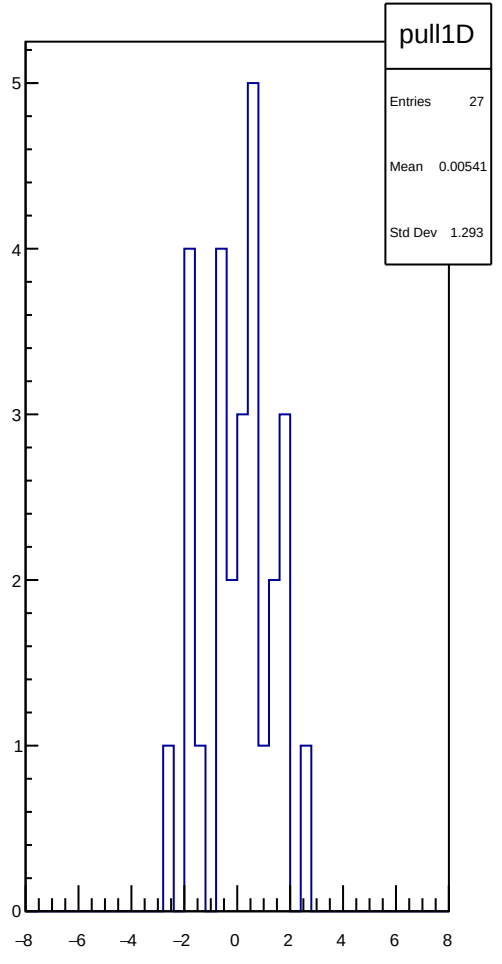

asym_sam5_rms vs run
χ² / ndf 977 / 26
p0 1415 ± 1.96
1500
1450
1400
1350
1300
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

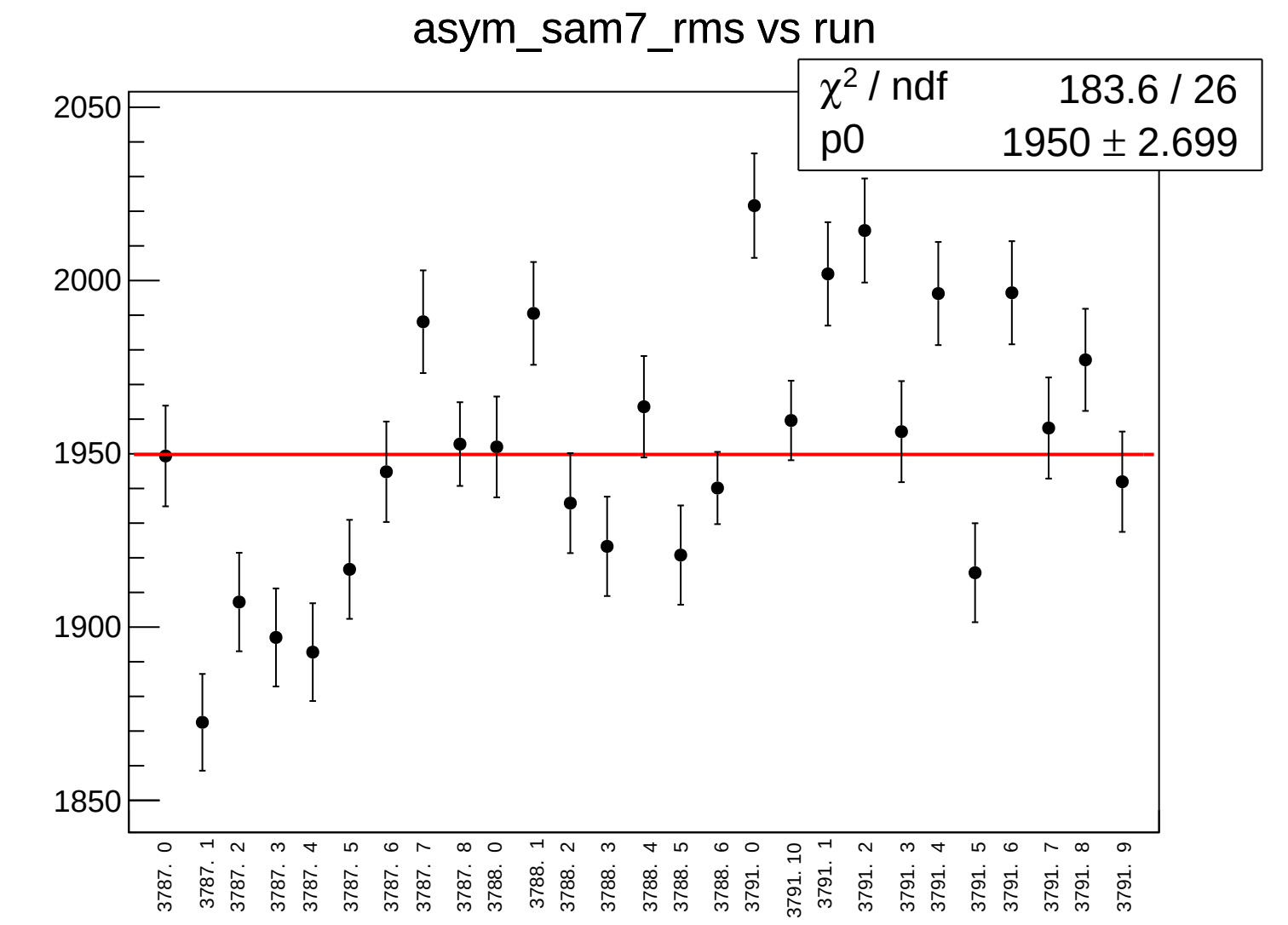

asym_sam6_mean vs run
×10^3
χ^2 / ndf 34.01 / 26
p0 −3219 ± 5419
100
50
0
−50
−100
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −75.74
Std Dev 91.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

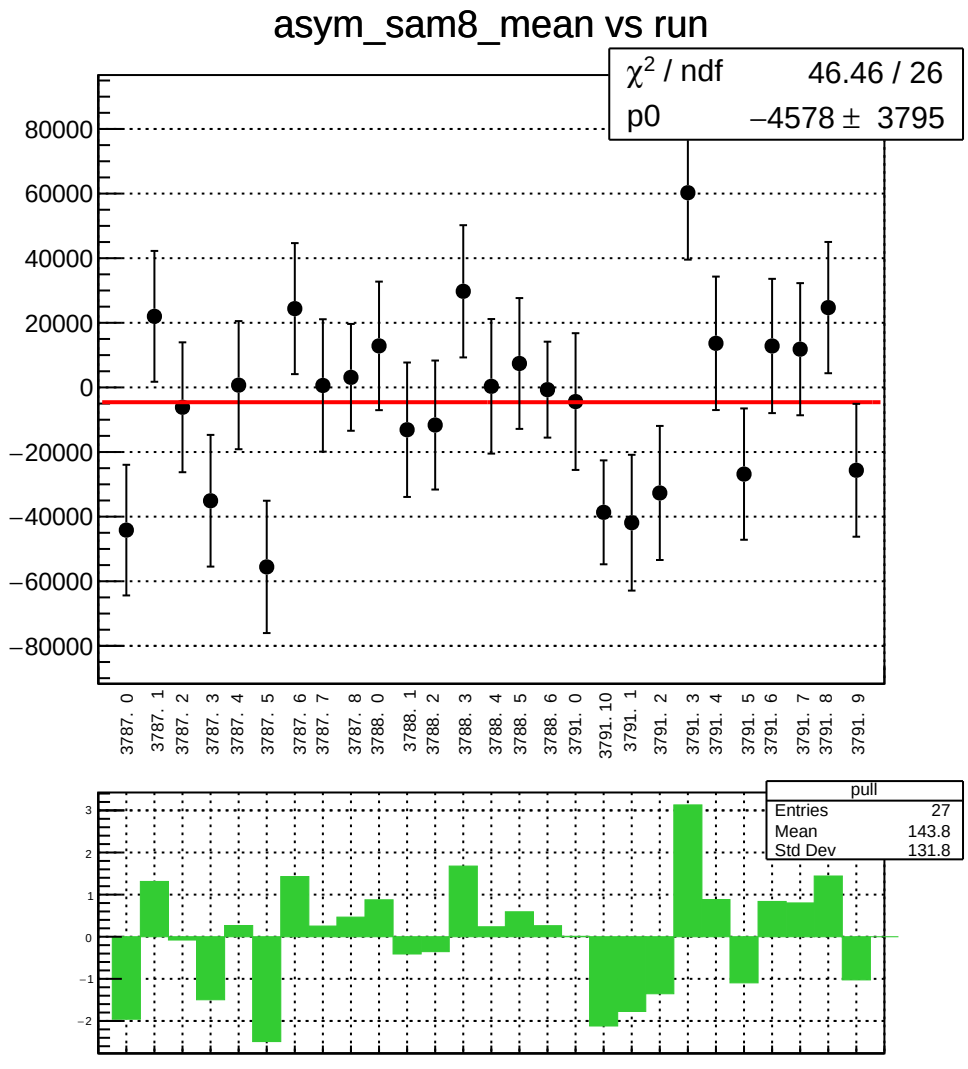

pull1D
Entries 27
Mean −0.007227
Std Dev 1.122
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

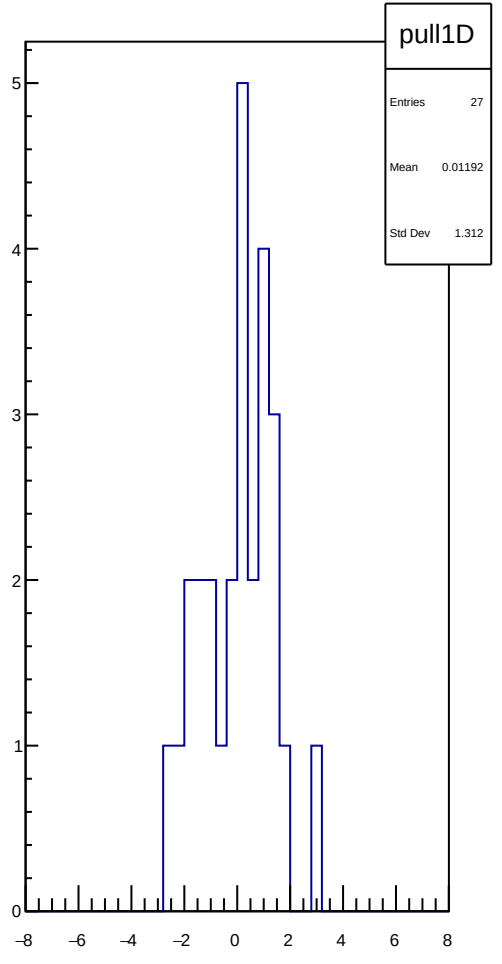

asym_sam6_rms vs run
χ² / ndf 167.2 / 26
p0 2768 ± 3.832
2900
2850
2800
2750
2700
2650
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

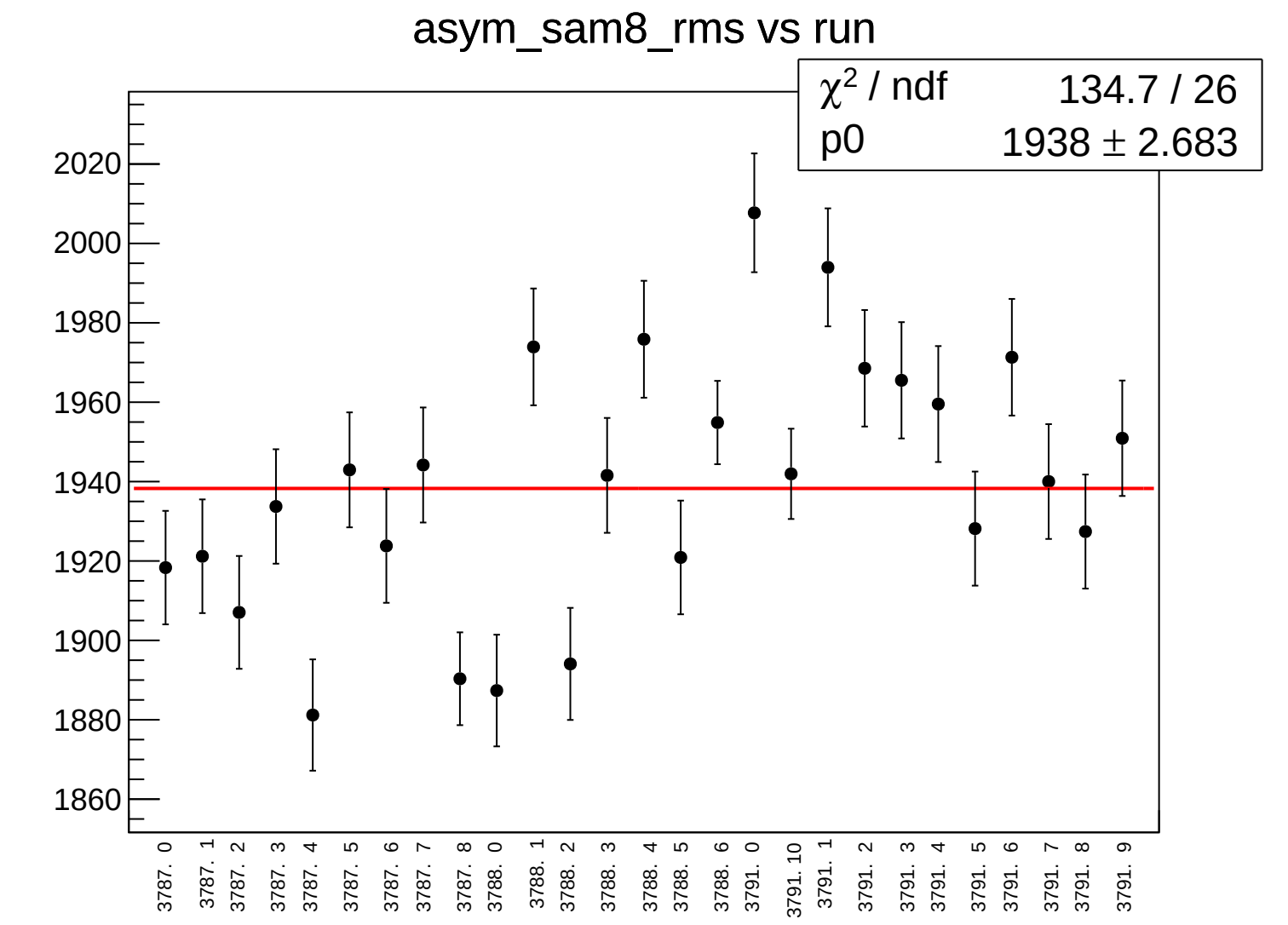

asym_sam7_mean vs run
χ² / ndf 45.16 / 26
p0 −4283 ± 3817
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 237.2
Std Dev 223.6
2
1
0
−1
−2

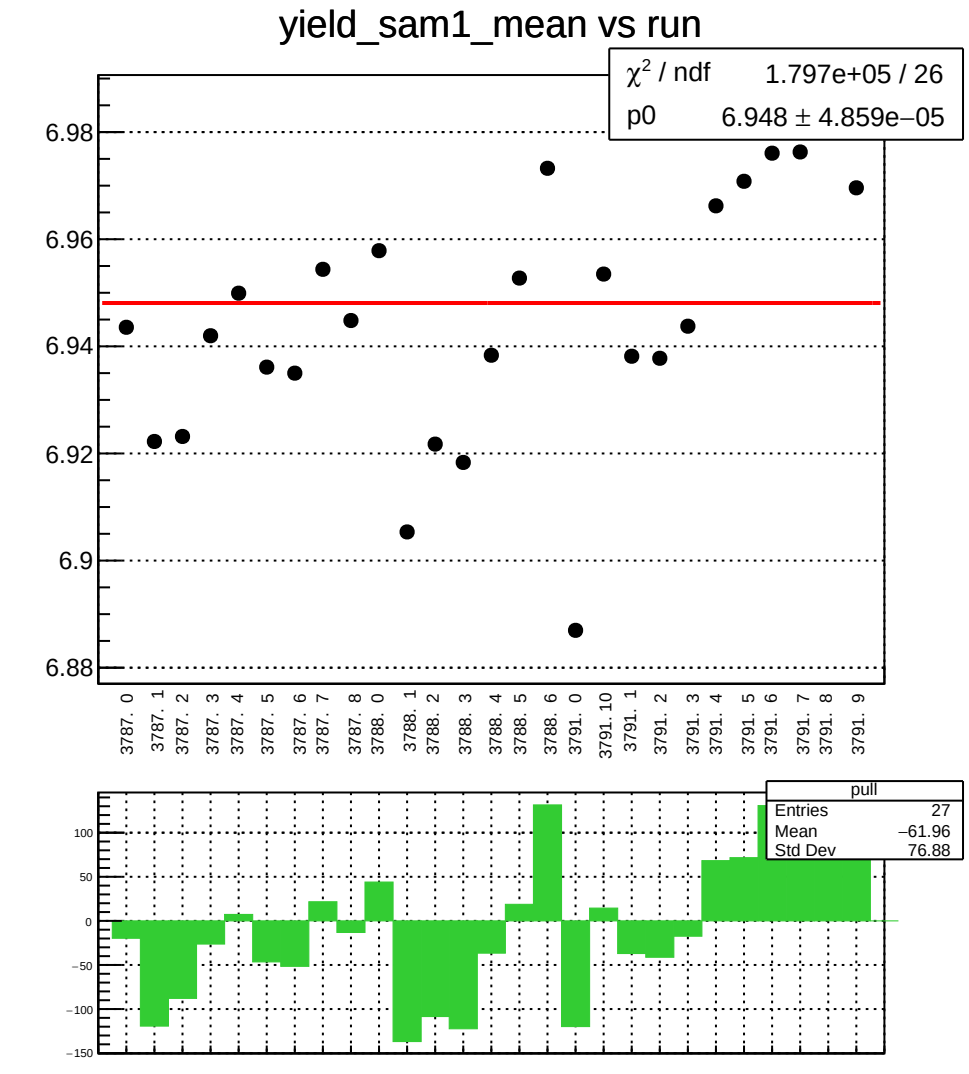

pull1D
Entries 27
Mean 0.00541
Std Dev 1.293
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

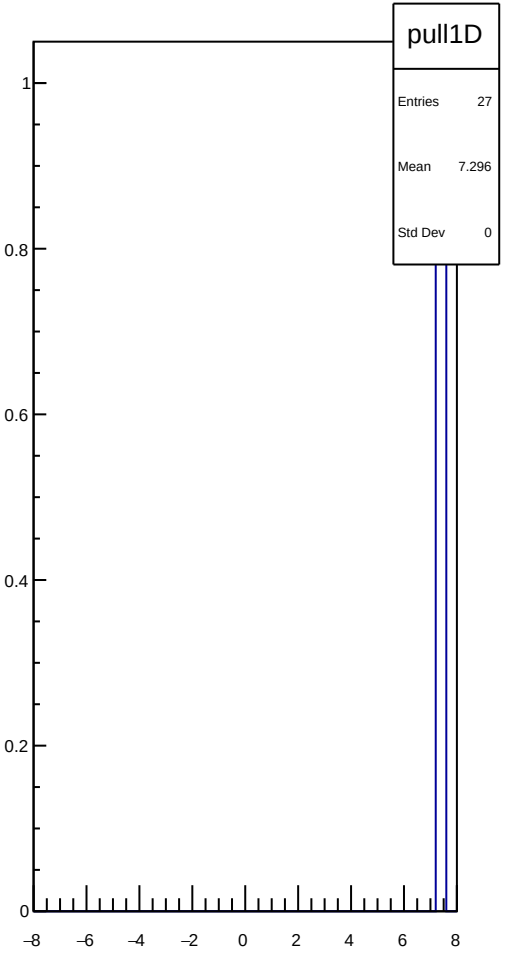

asym_sam7_rms vs run
χ² / ndf 183.6 / 26
p0 1950 ± 2.699
2050
2000
1950
1900
1850
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

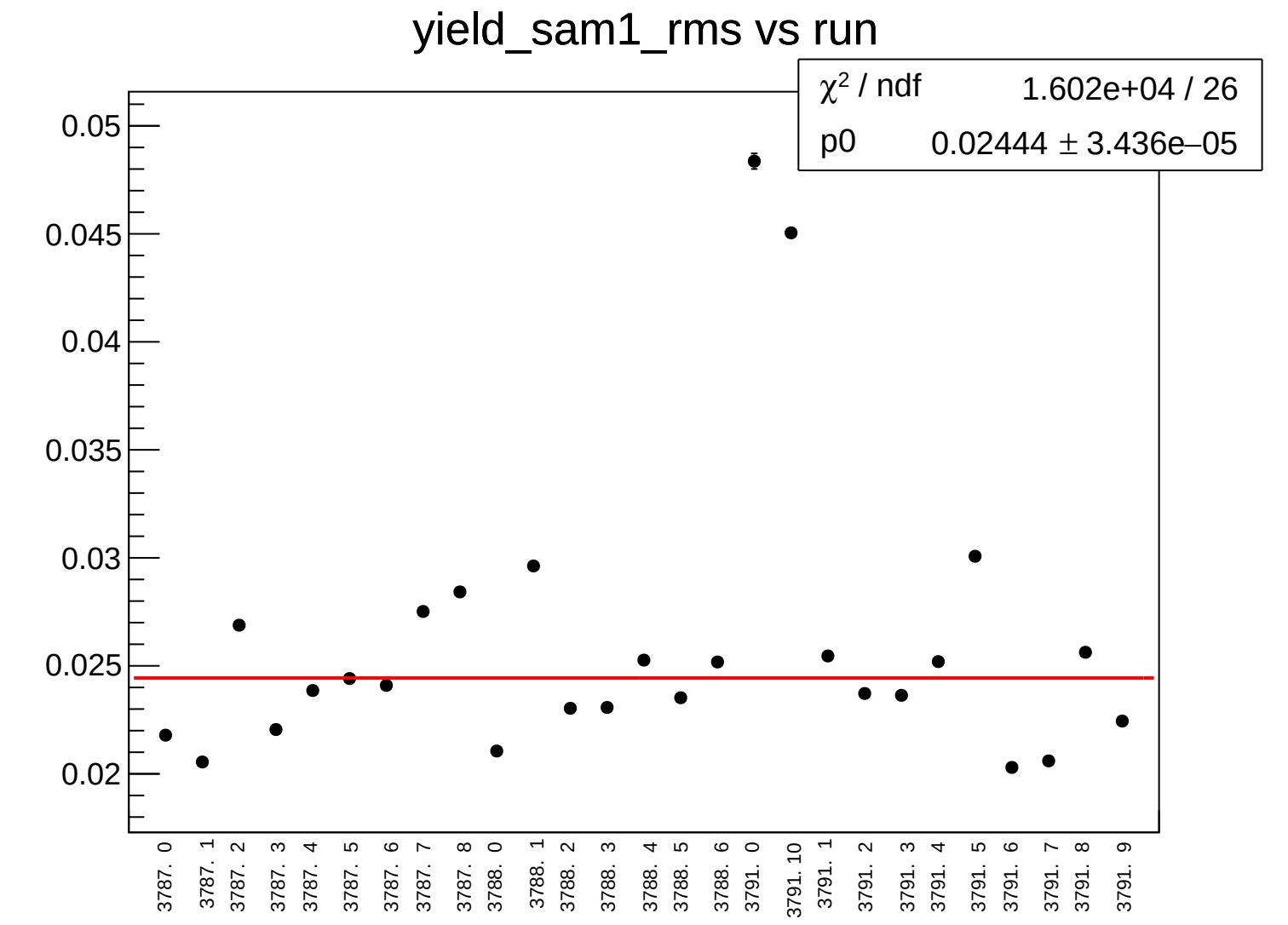

asym_sam8_mean vs run
χ² / ndf 46.46 / 26
p0 −4578 ± 3795
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 143.8
Std Dev 131.8
3
2
1
0
−1
−2

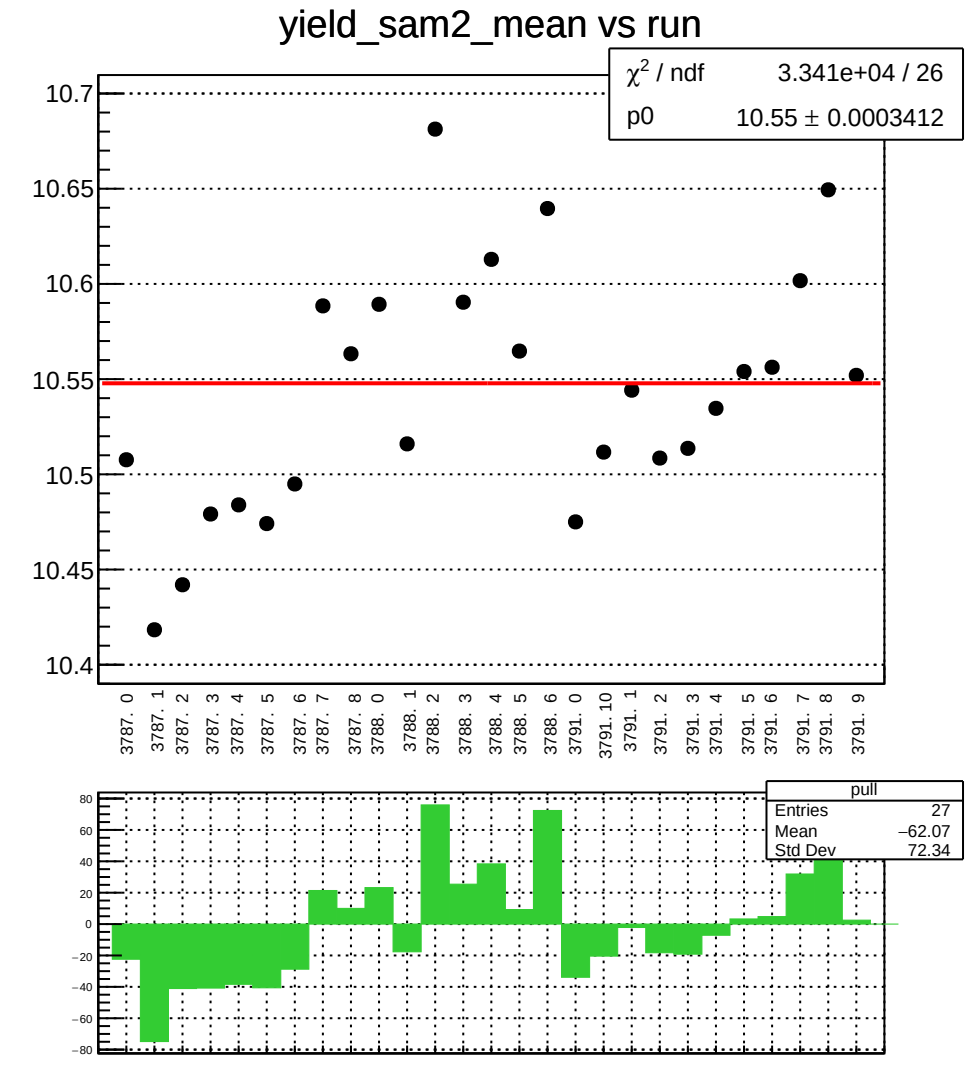

pull1D
Entries 27
Mean 0.01192
Std Dev 1.312
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

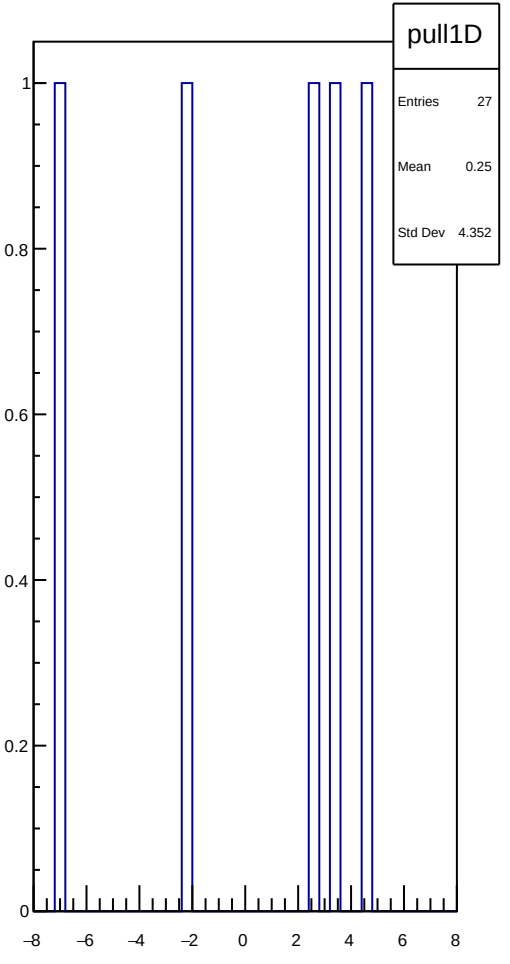

asym_sam8_rms vs run
χ² / ndf 134.7 / 26
p0 1938 ± 2.683
2020
2000
1980
1960
1940
1920
1900
1880
1860
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

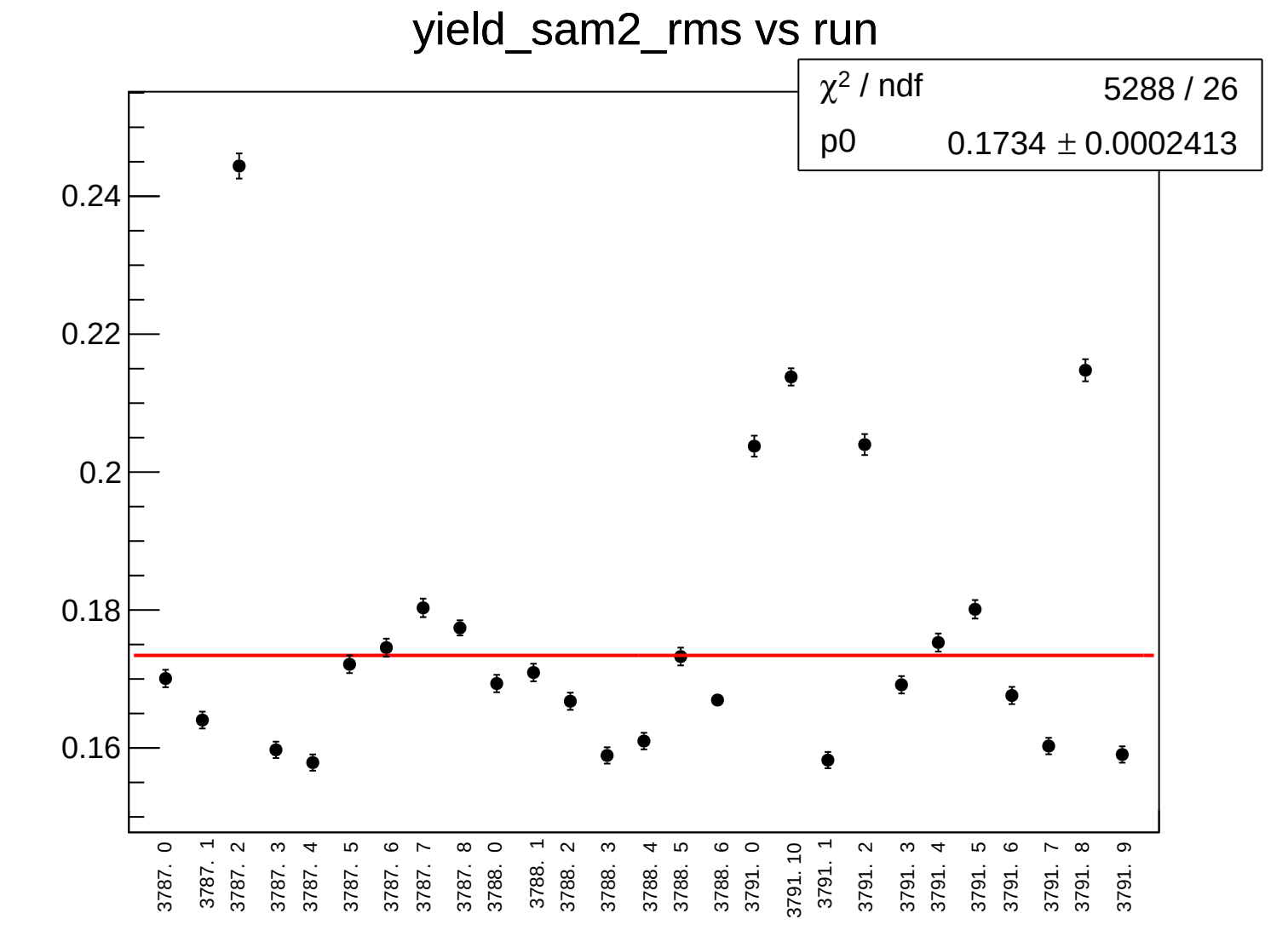

yield_sam1_mean vs run
χ² / ndf 1.797e+05 / 26
p0 6.948 ± 4.859e−05
6.98
6.96
6.94
6.92
6.9
6.88
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −61.96
Std Dev 76.88
100
50
0
−50
−100
−150

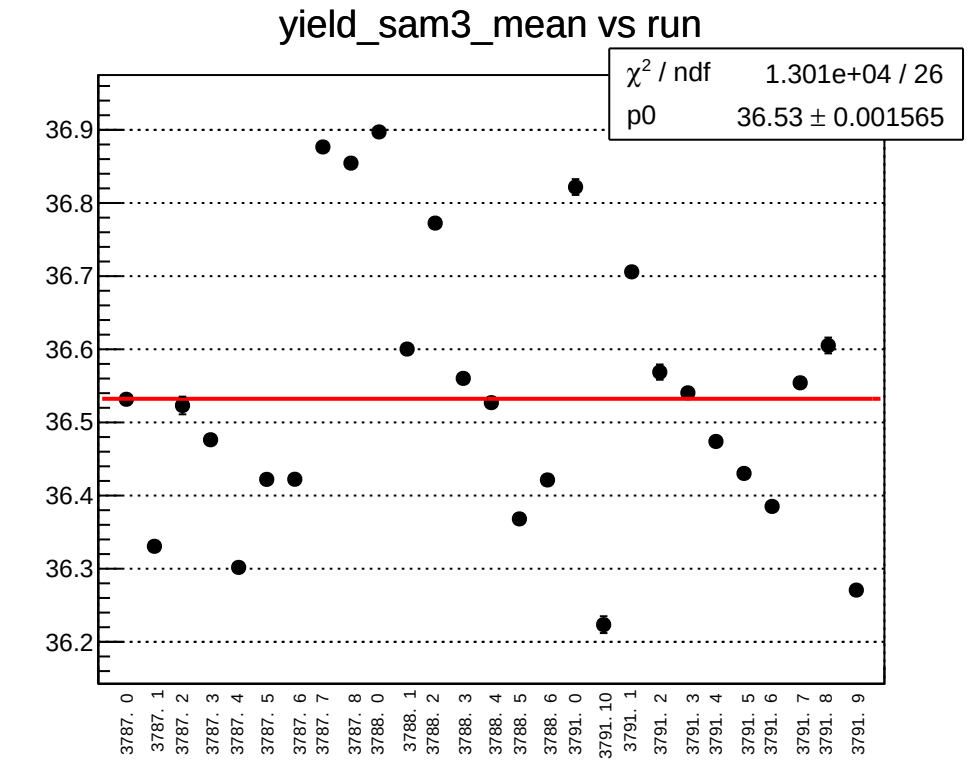

pull1D
Entries 27
Mean 7.296
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

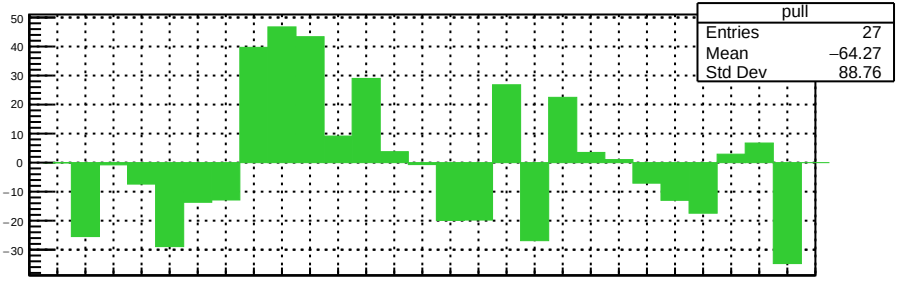

yield_sam1_rms vs run
χ² / ndf 1.602e+04 / 26
p0 0.02444 ± 3.436e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

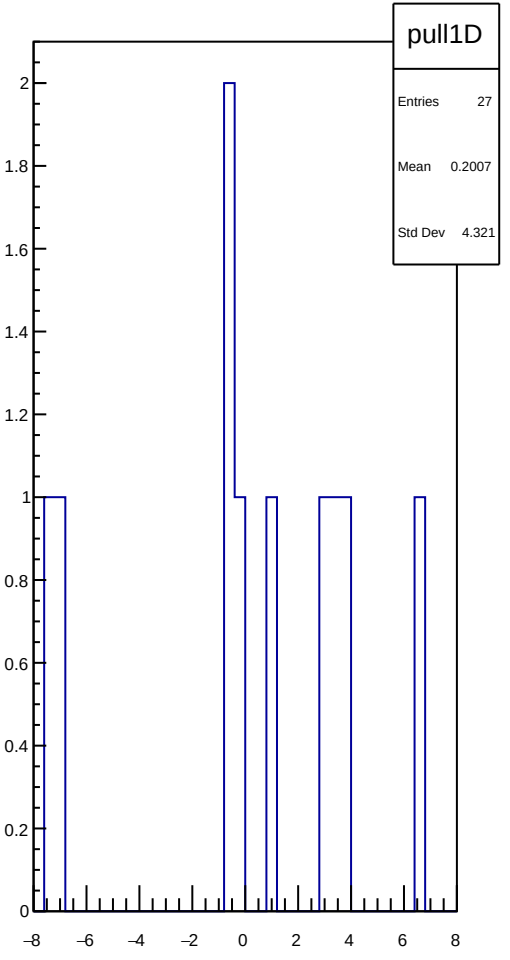

yield_sam2_mean vs run
χ² / ndf 3.341e+04 / 26
p0 10.55 ± 0.0003412
10.7
10.65
10.6
10.55
10.5
10.45
10.4
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −62.07
Std Dev 72.34
80
60
40
20
0
−20
−40
−60
−80

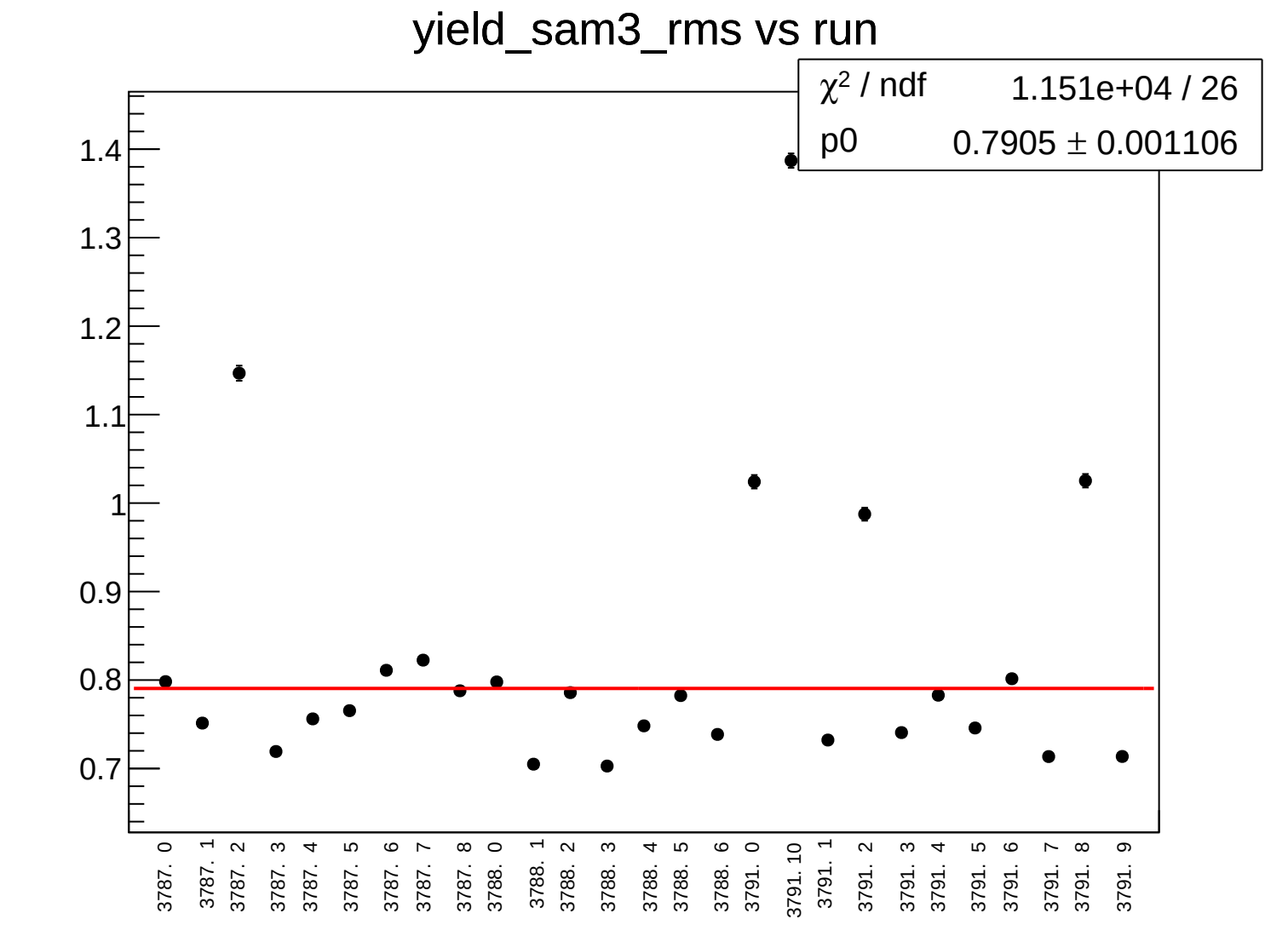

pull1D
Entries 27
Mean 0.25
Std Dev 4.352
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

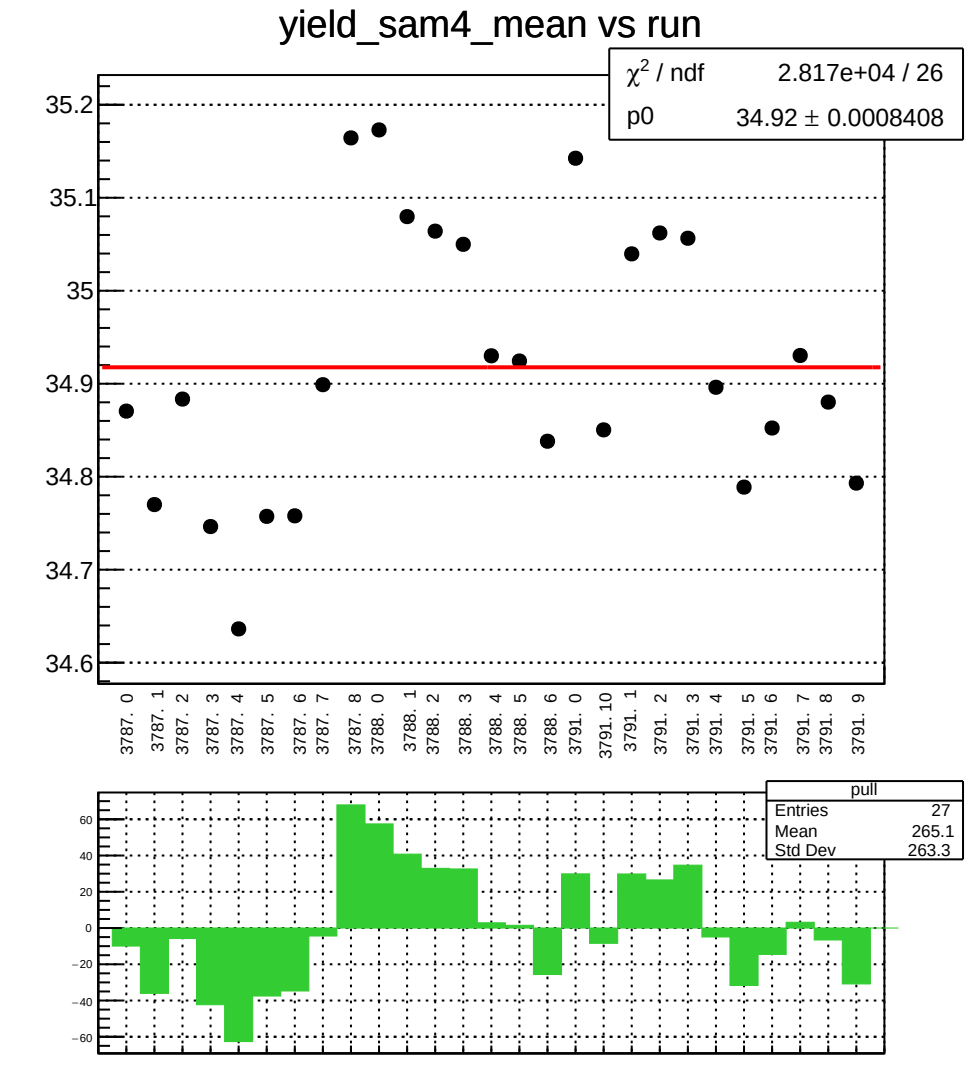

yield_sam2_rms vs run
χ² / ndf 5288 / 26
p0 0.1734 ± 0.0002413
0.24
0.22
0.2
0.18
0.16
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

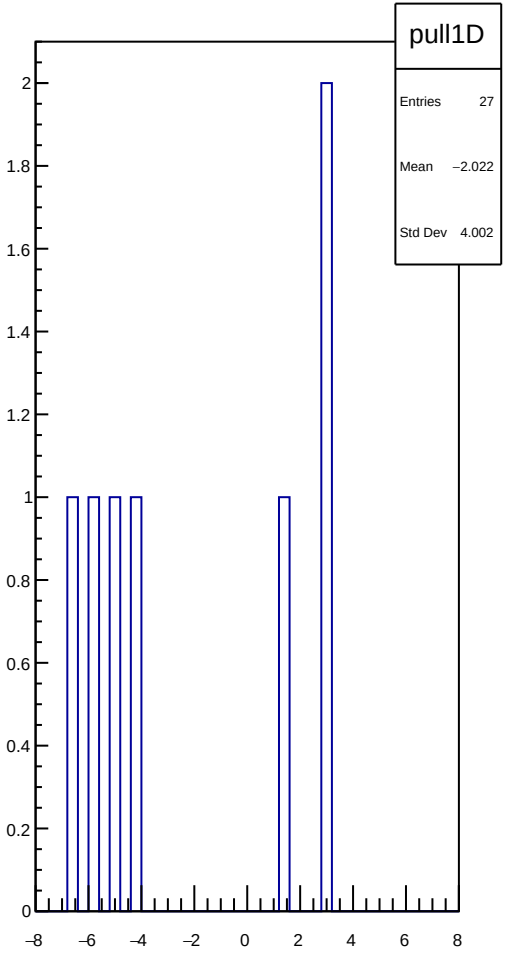

yield_sam3_mean vs run
χ² / ndf 1.301e+04 / 26
p0 36.53 ± 0.001565
36.9
36.8
36.7
36.6
36.5
36.4
36.3
36.2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

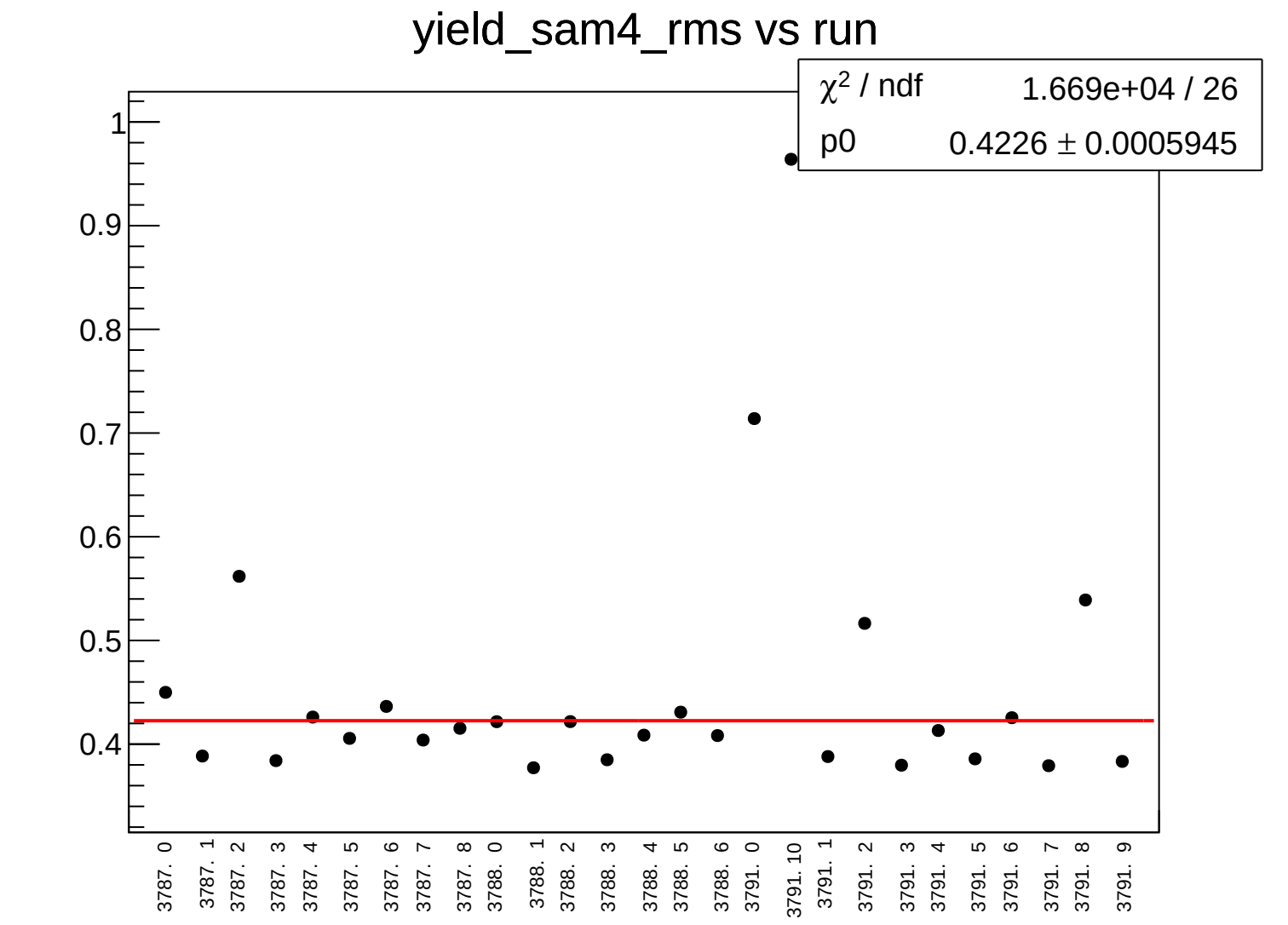

pull
Entries 27
Mean −64.27
Std Dev 88.76
50
40
30
20
10
0
−10
−20
−30

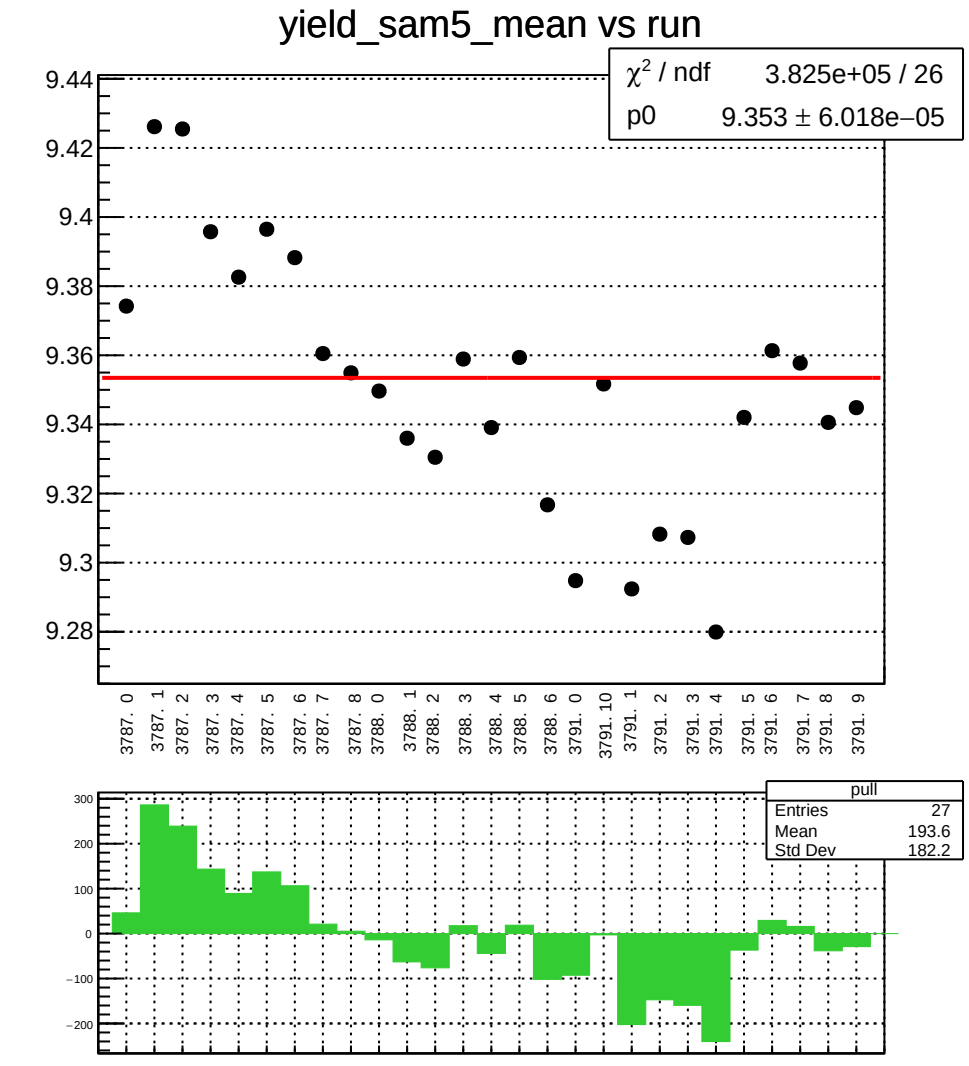

pull1D
Entries 27
Mean 0.2007
Std Dev 4.321
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

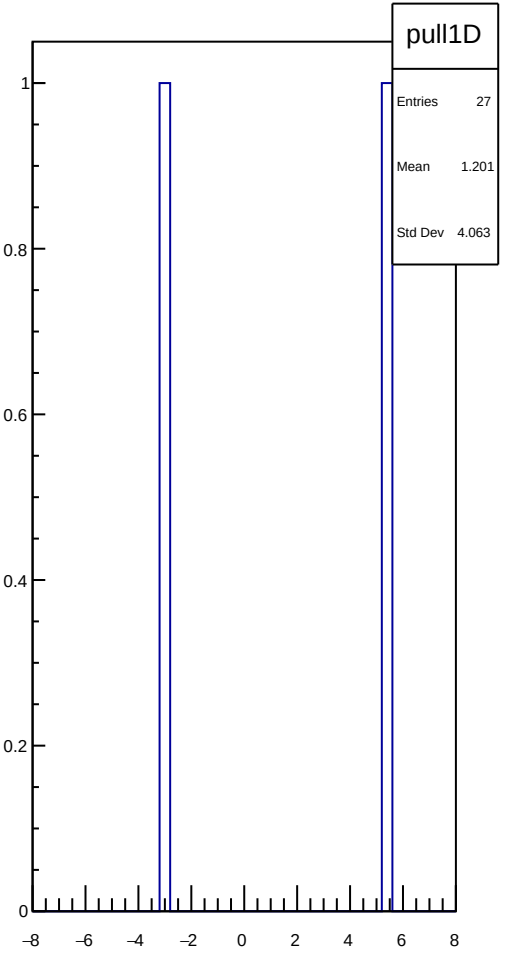

yield_sam3_rms vs run
χ² / ndf 1.151e+04 / 26
p0 0.7905 ± 0.001106
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

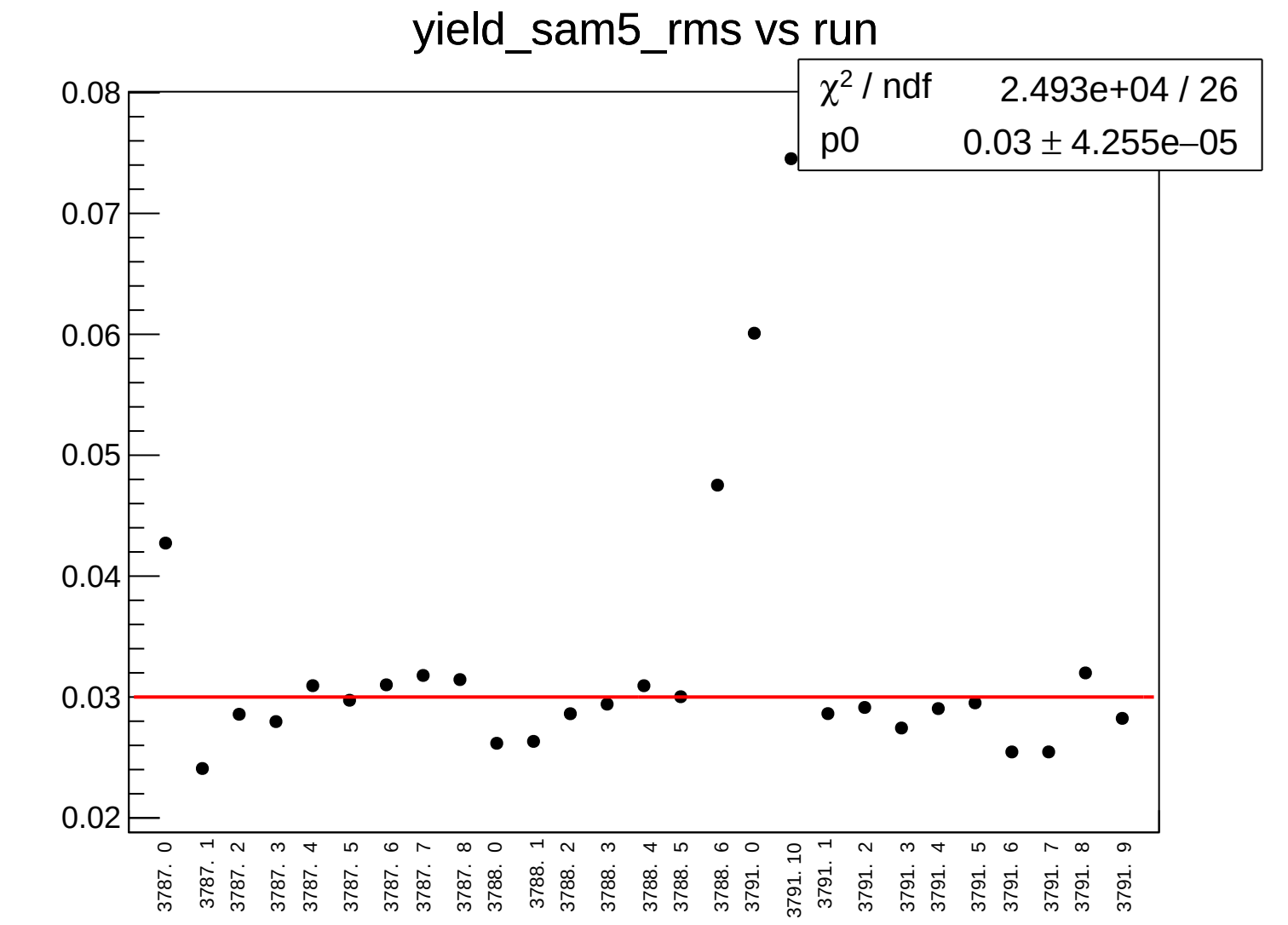

yield_sam4_mean vs run
χ² / ndf 2.817e+04 / 26
p0 34.92 ± 0.0008408
35.2
35.1
35
34.9
34.8
34.7
34.6
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 265.1
Std Dev 263.3
60
40
20
0
−20
−40
−60

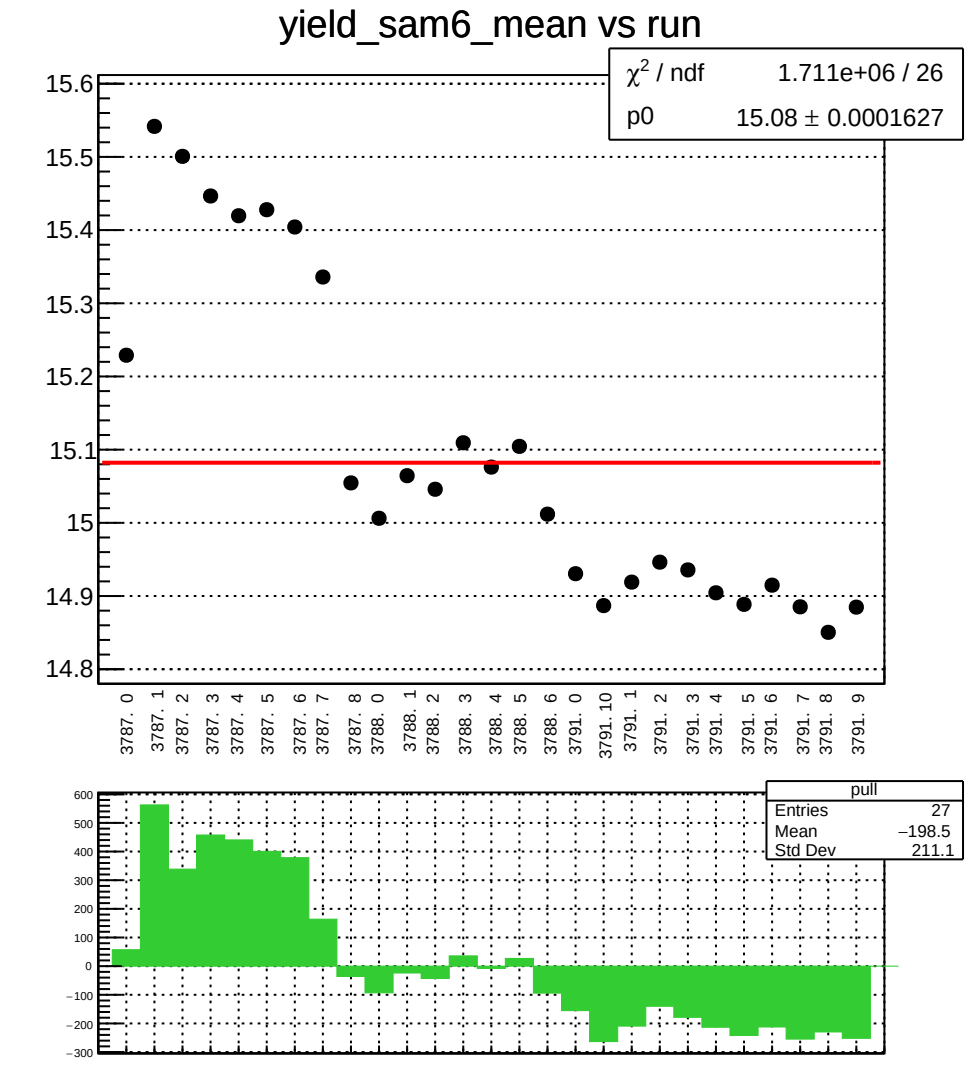

pull1D
Entries 27
Mean −2.022
Std Dev 4.002
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

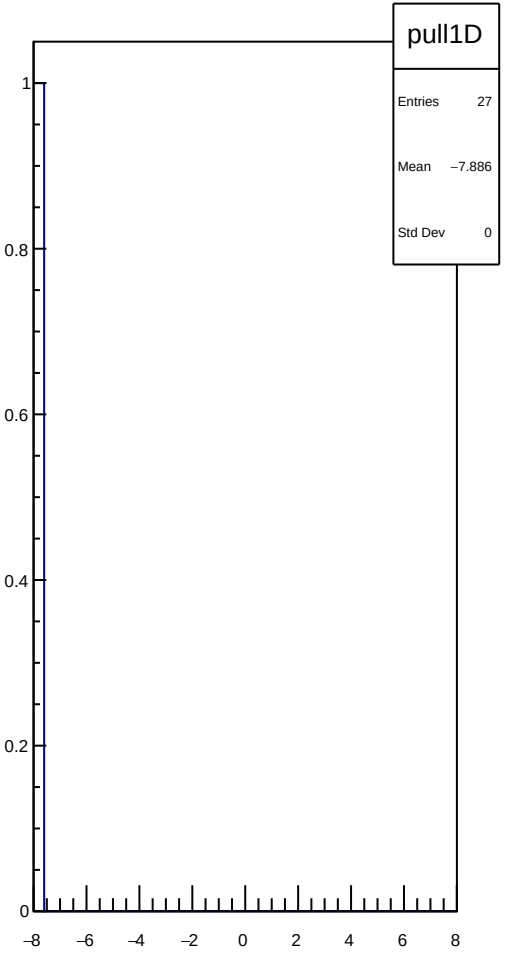

yield_sam4_rms vs run
χ² / ndf 1.669e+04 / 26
p0 0.4226 ± 0.0005945
1
0.9
0.8
0.7
0.6
0.5
0.4
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

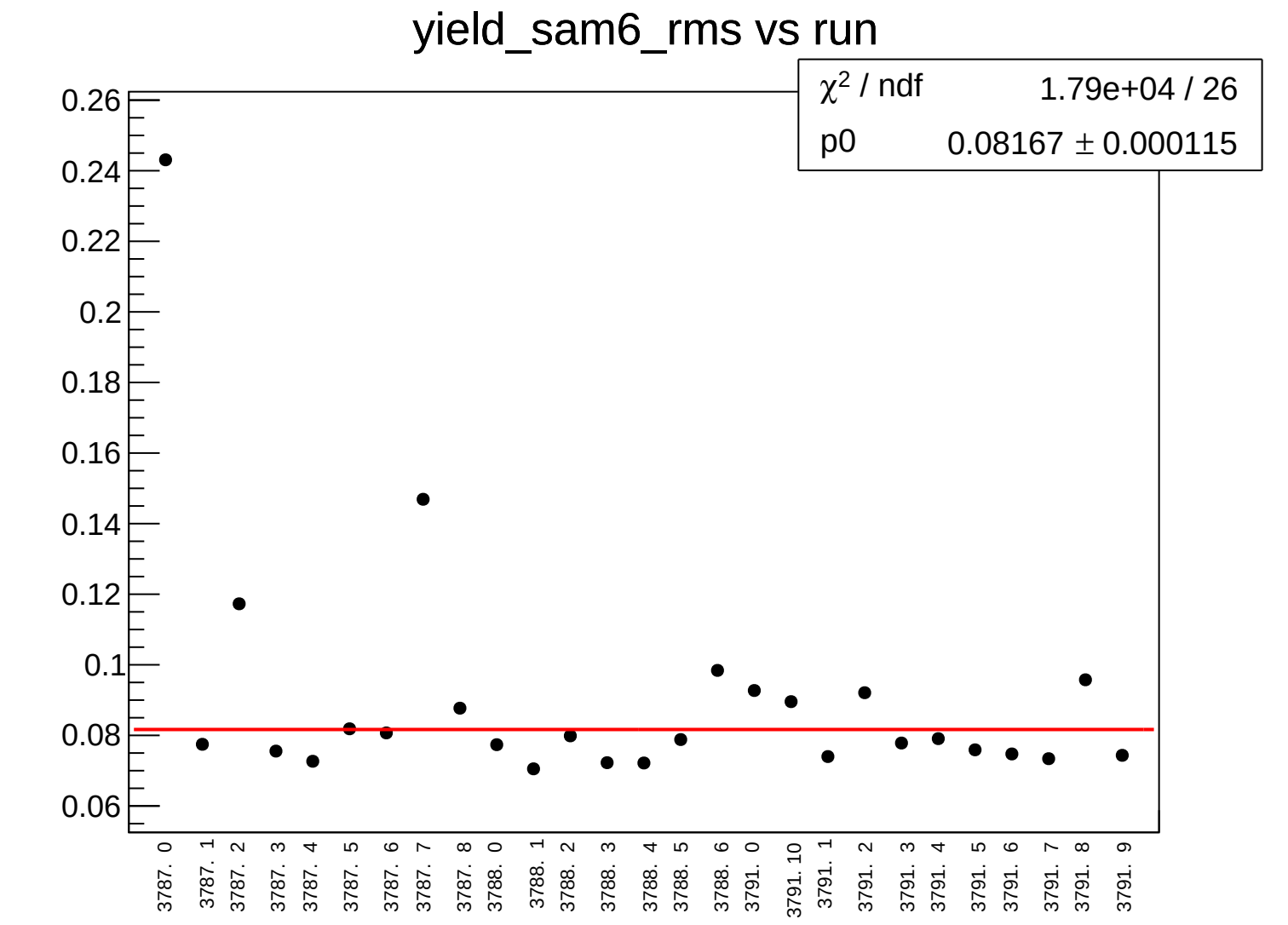

yield_sam5_mean vs run
χ² / ndf 3.825e+05 / 26
p0 9.353 ± 6.018e−05
9.44
9.42
9.4
9.38
9.36
9.34
9.32
9.3
9.28
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 193.6
Std Dev 182.2
300
200
100
0
−100
−200

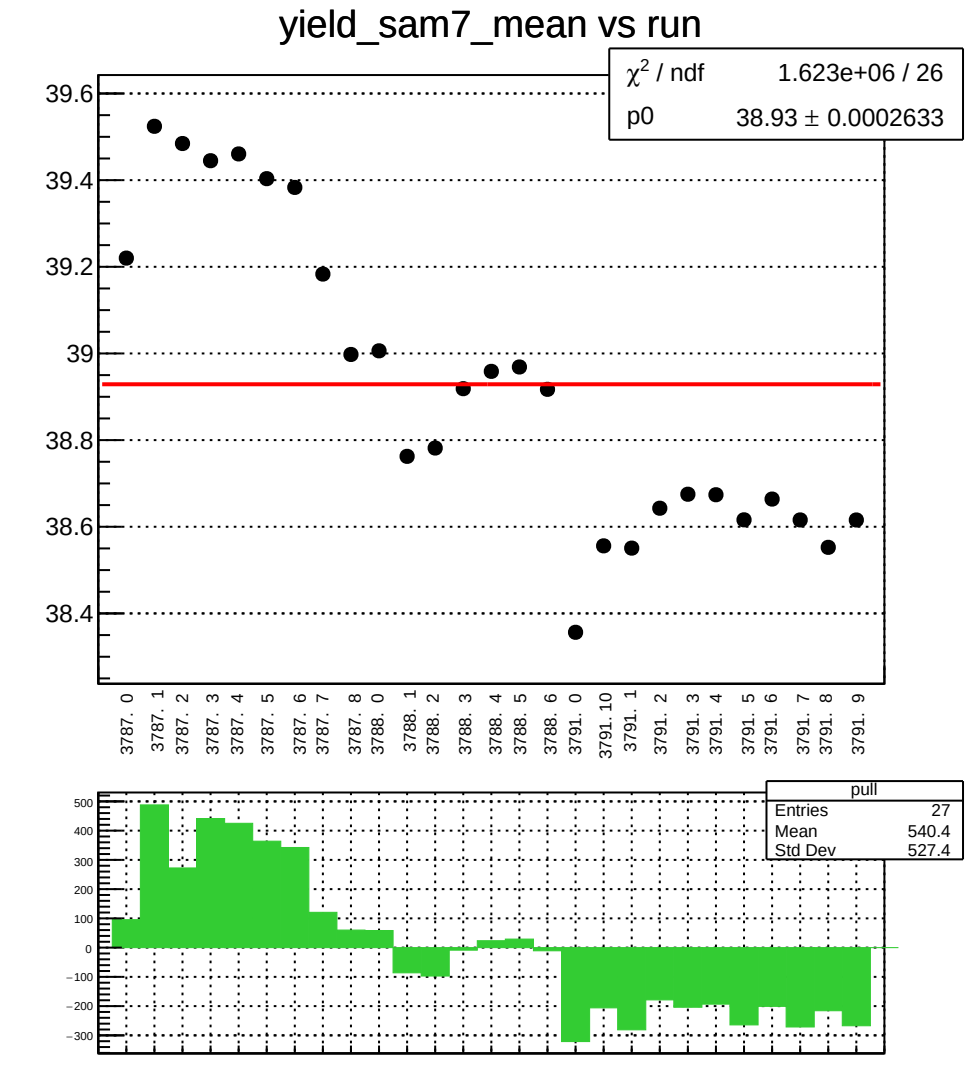

pull1D
Entries 27
Mean 1.201
Std Dev 4.063
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

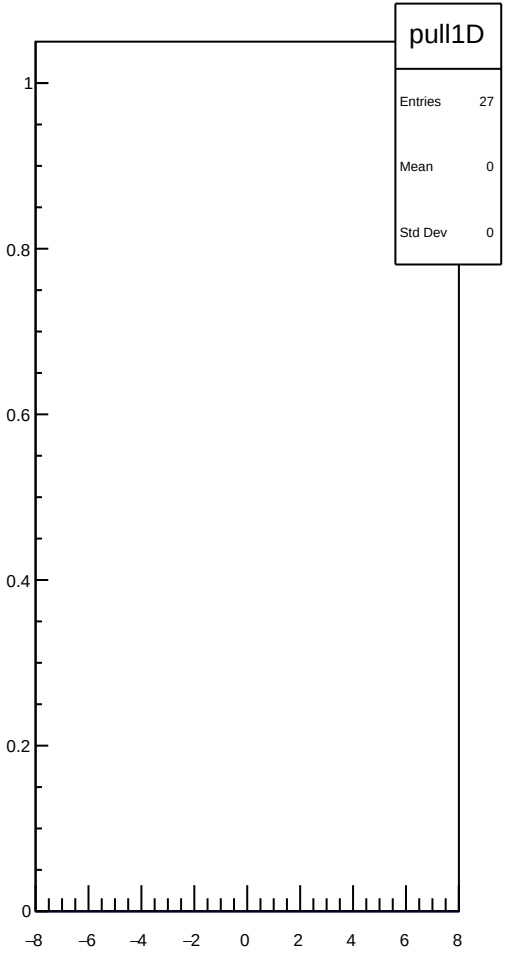

yield_sam5_rms vs run
χ² / ndf 2.493e+04 / 26
p0 0.03 ± 4.255e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

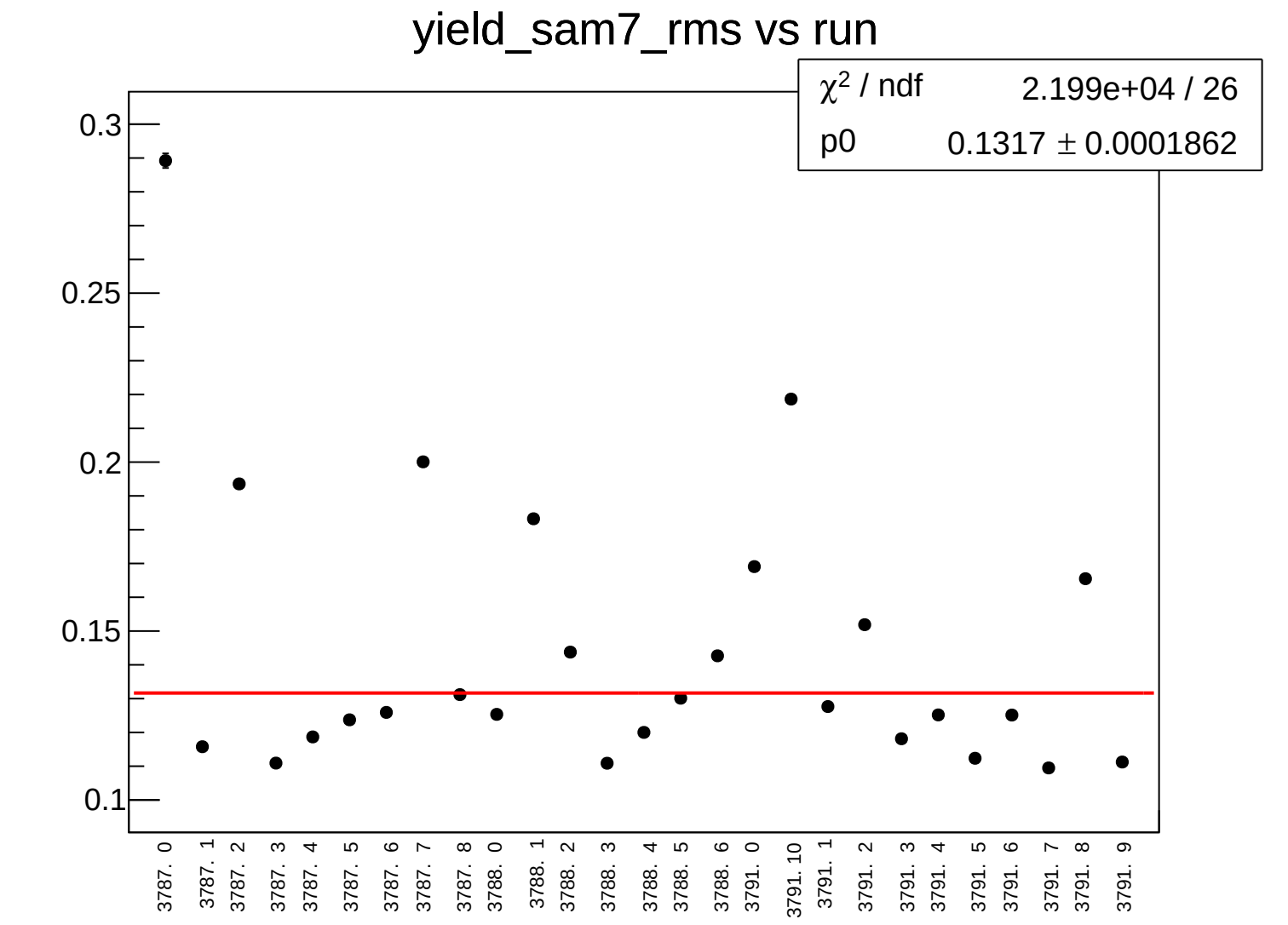

yield_sam6_mean vs run
χ² / ndf 1.711e+06 / 26
p0 15.08 ± 0.0001627
15.6
15.5
15.4
15.3
15.2
15.1
15
14.9
14.8
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −198.5
Std Dev 211.1
600
500
400
300
200
100
0
−100
−200
−300

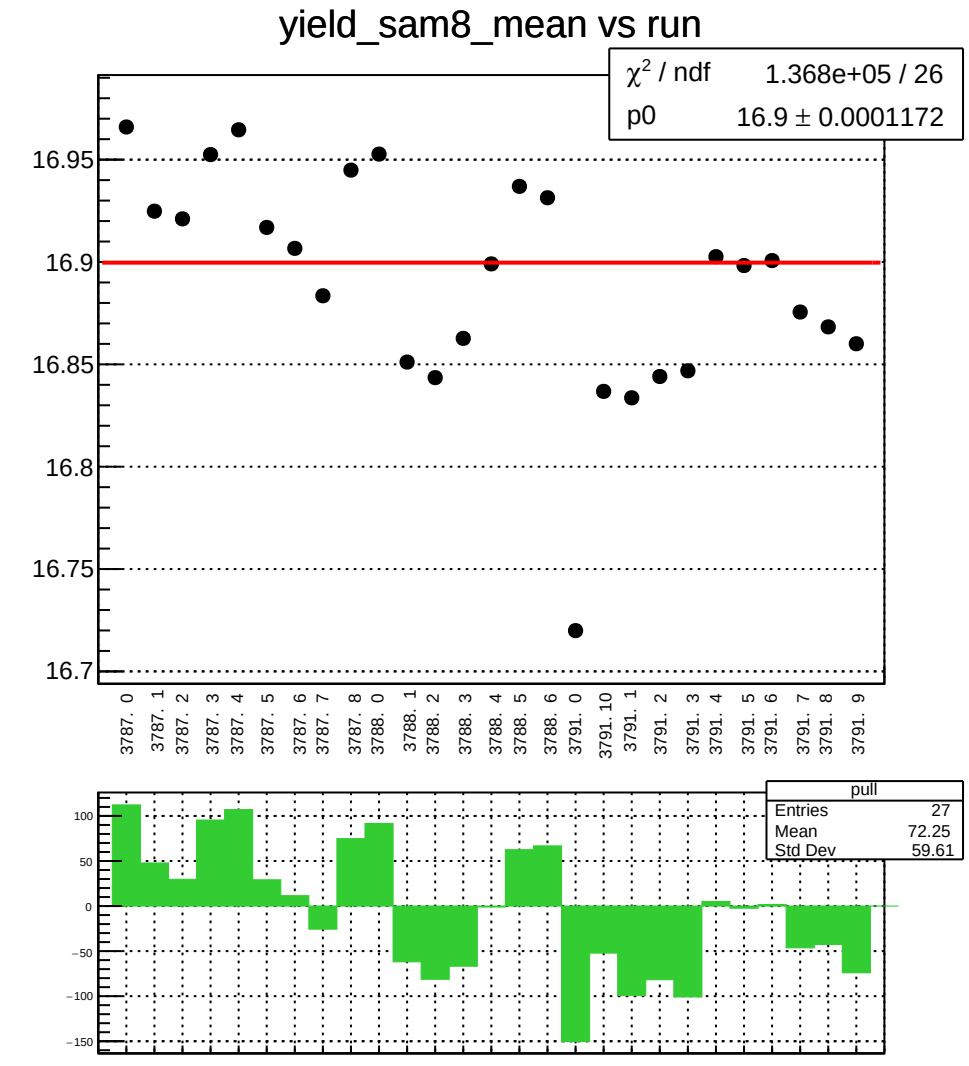

pull1D
Entries 27
Mean −7.886
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

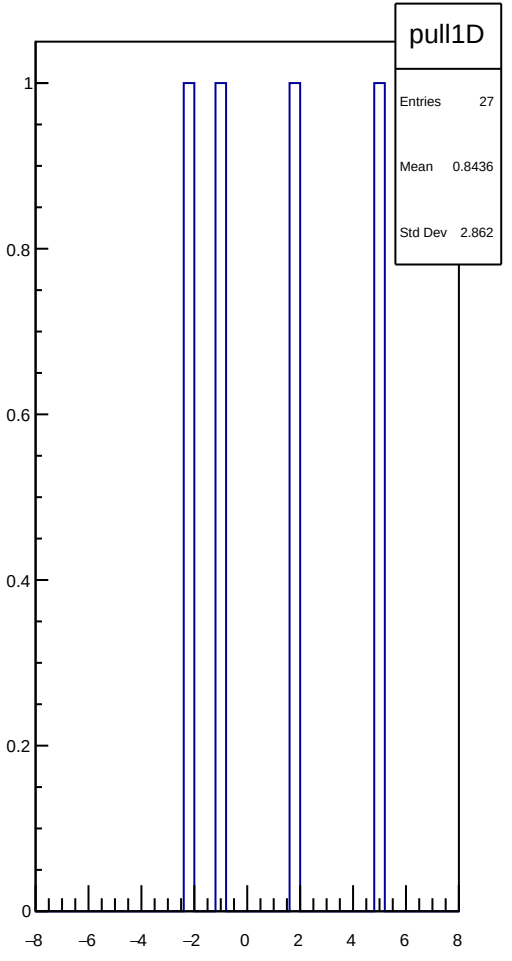

yield_sam6_rms vs run
χ² / ndf 1.79e+04 / 26
p0 0.08167 ± 0.000115
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

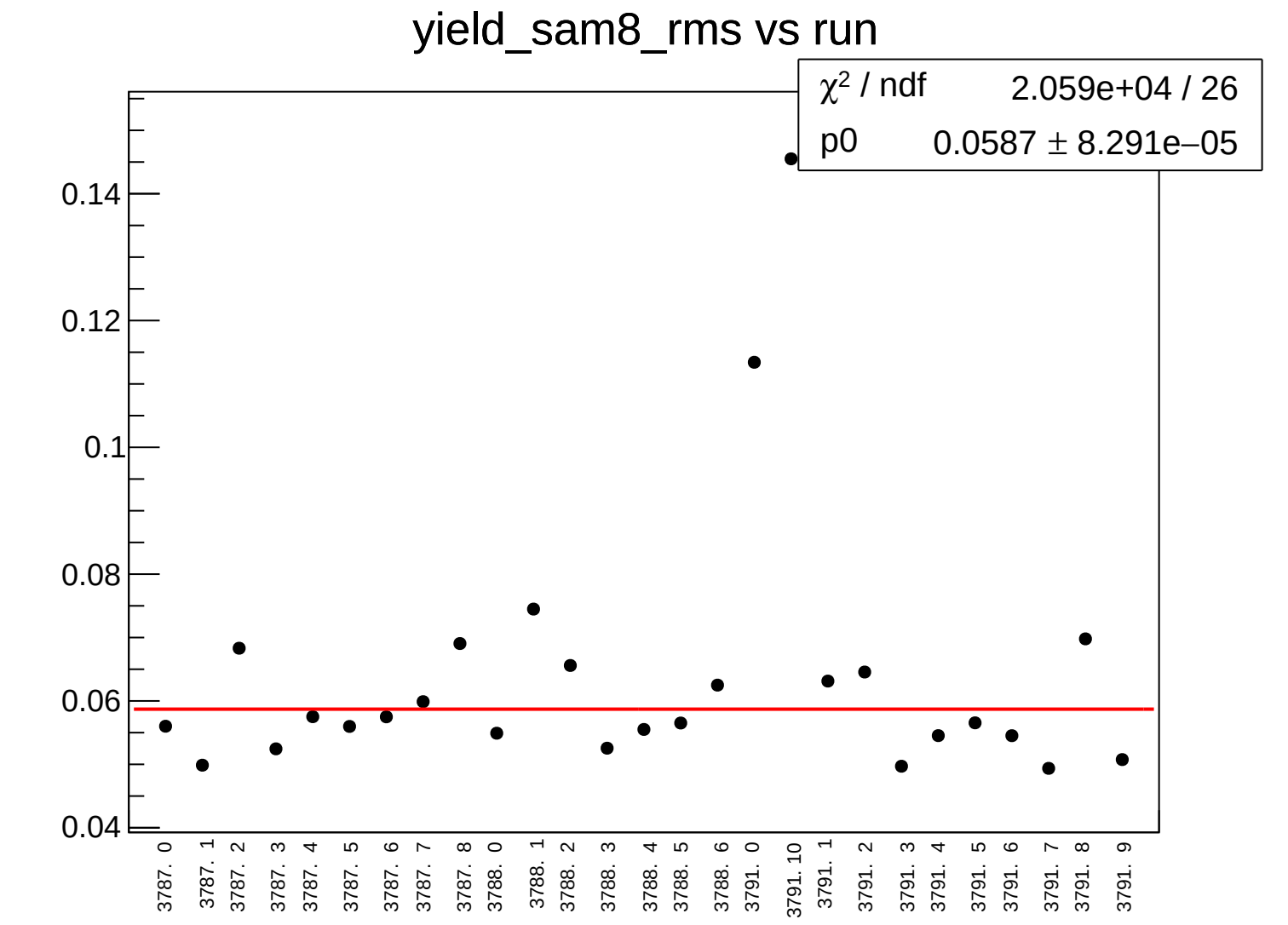

yield_sam7_mean vs run
χ² / ndf 1.623e+06 / 26
p0 38.93 ± 0.0002633
39.6
39.4
39.2
39
38.8
38.6
38.4
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 540.4
Std Dev 527.4
500
400
300
200
100
0
−100
−200
−300

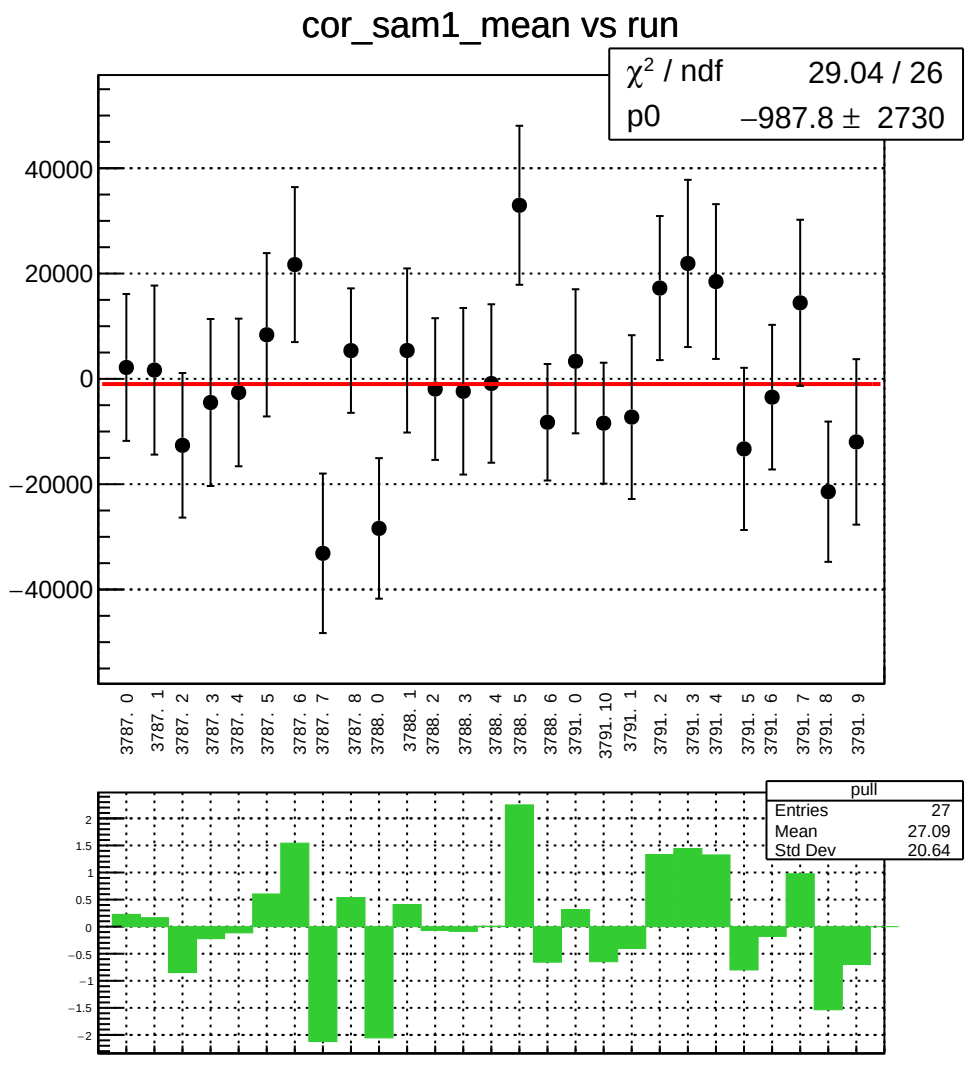

pull1D
Entries 27
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

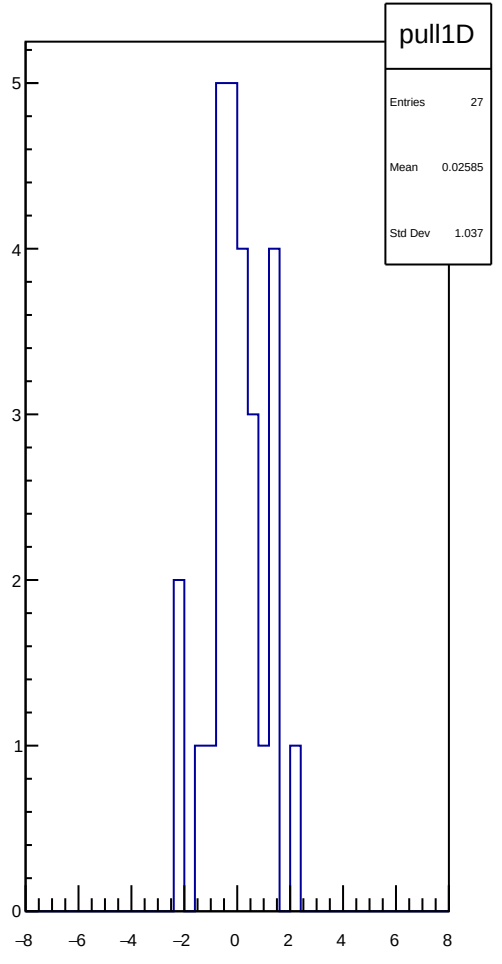

yield_sam7_rms vs run
χ² / ndf 2.199e+04 / 26
p0 0.1317 ± 0.0001862
0.3
0.25
0.2
0.15
0.1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

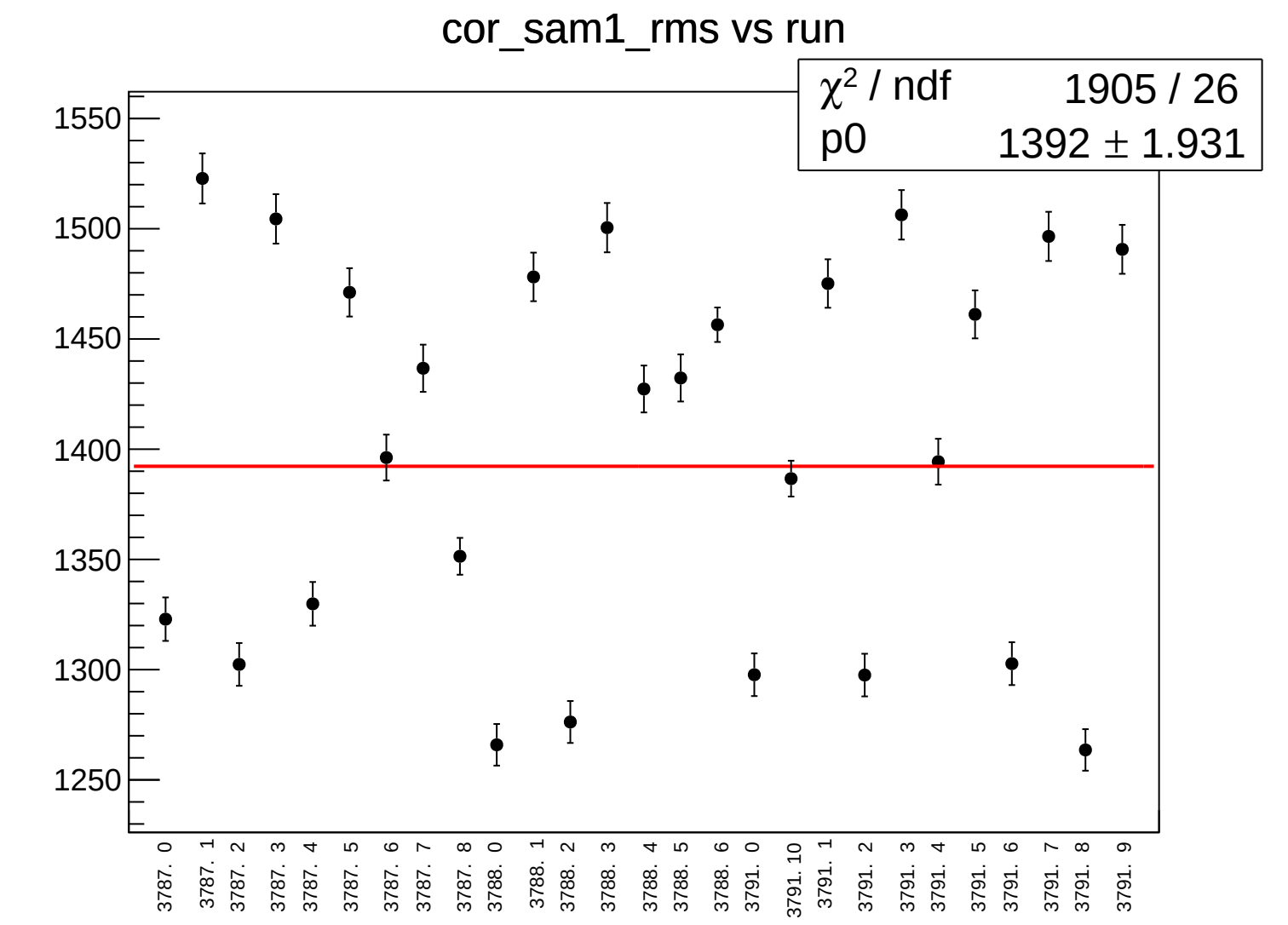

yield_sam8_mean vs run
χ² / ndf 1.368e+05 / 26
p0 16.9 ± 0.0001172
16.95
16.9
16.85
16.8
16.75
16.7
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 72.25
Std Dev 59.61
100
50
0
−50
−100
−150

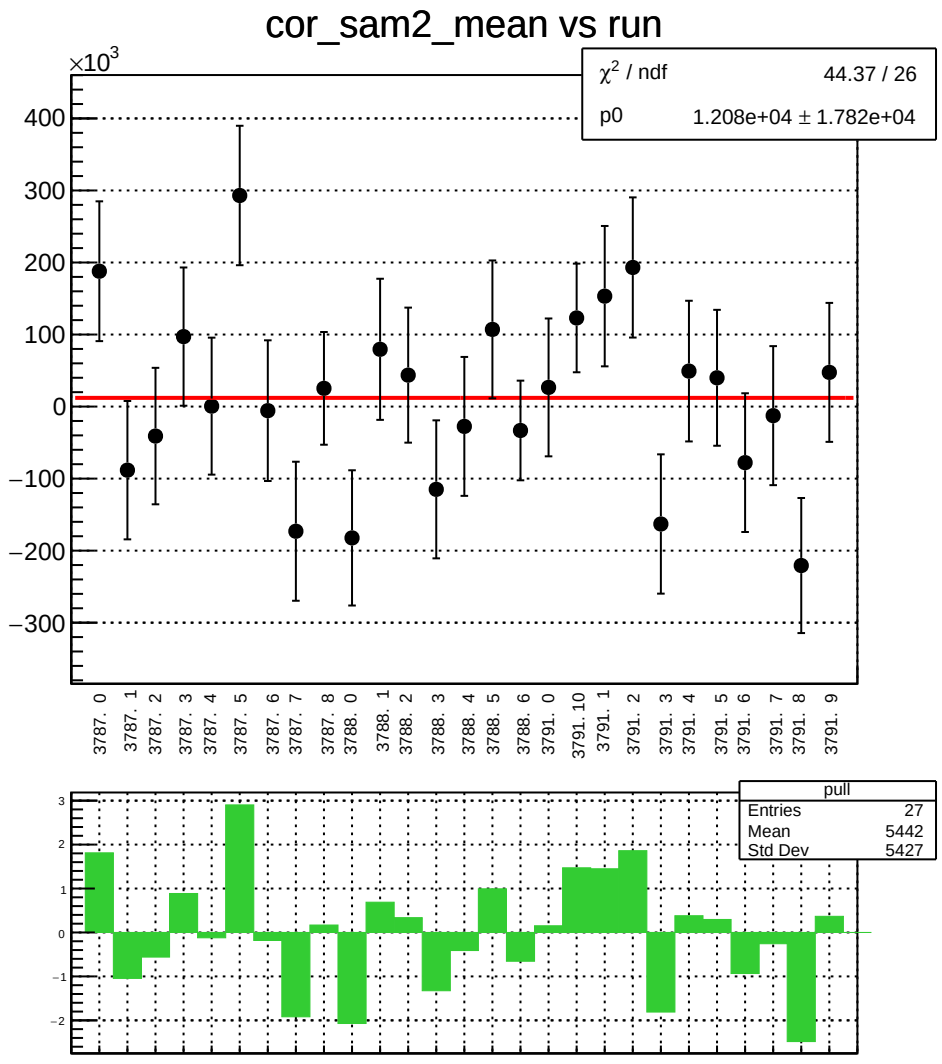

pull1D
Entries 27
Mean 0.8436
Std Dev 2.862
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

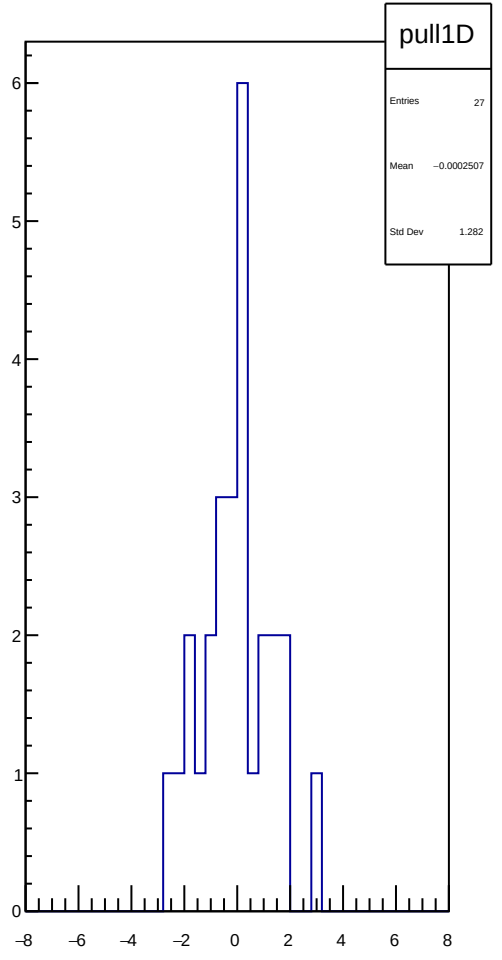

yield_sam8_rms vs run
χ² / ndf 2.059e+04 / 26
p0 0.0587 ± 8.291e−05
0.14
0.12
0.1
0.08
0.06
0.04
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

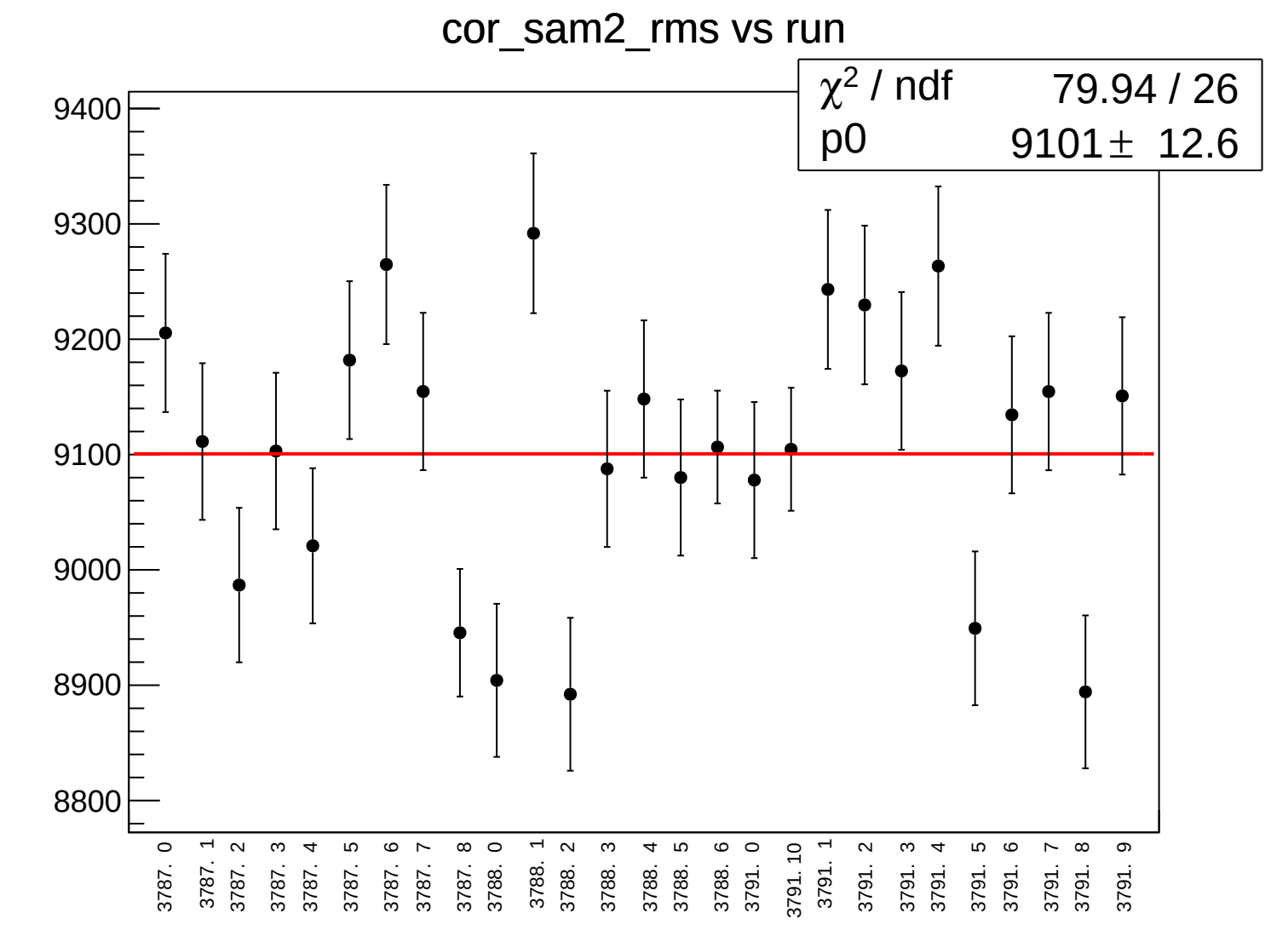

cor_sam1_mean vs run
χ² / ndf 29.04 / 26
p0 −987.8 ± 2730
40000
20000
0
−20000
−40000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 27.09
Std Dev 20.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

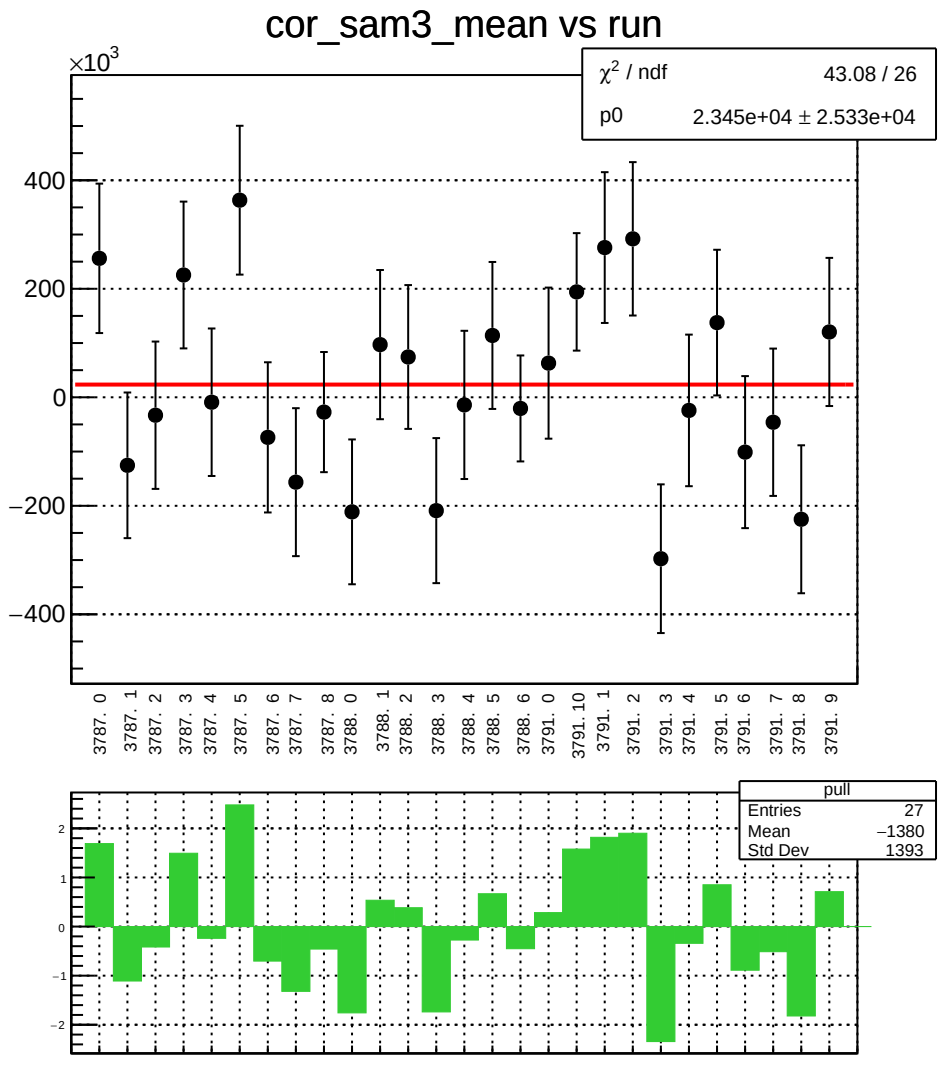

pull1D
Entries 27
Mean 0.02585
Std Dev 1.037
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

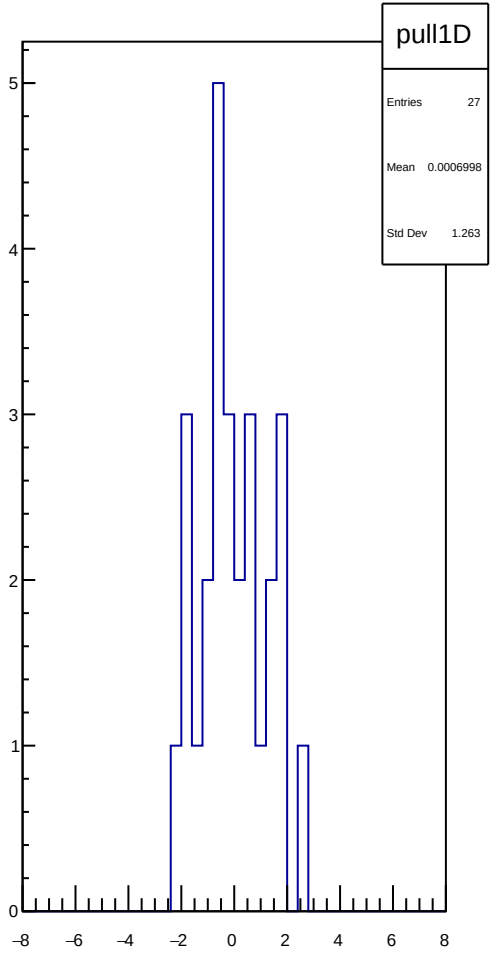

cor_sam1_rms vs run
χ² / ndf 1905 / 26
p0 1392 ± 1.931
1550
1500
1450
1400
1350
1300
1250
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

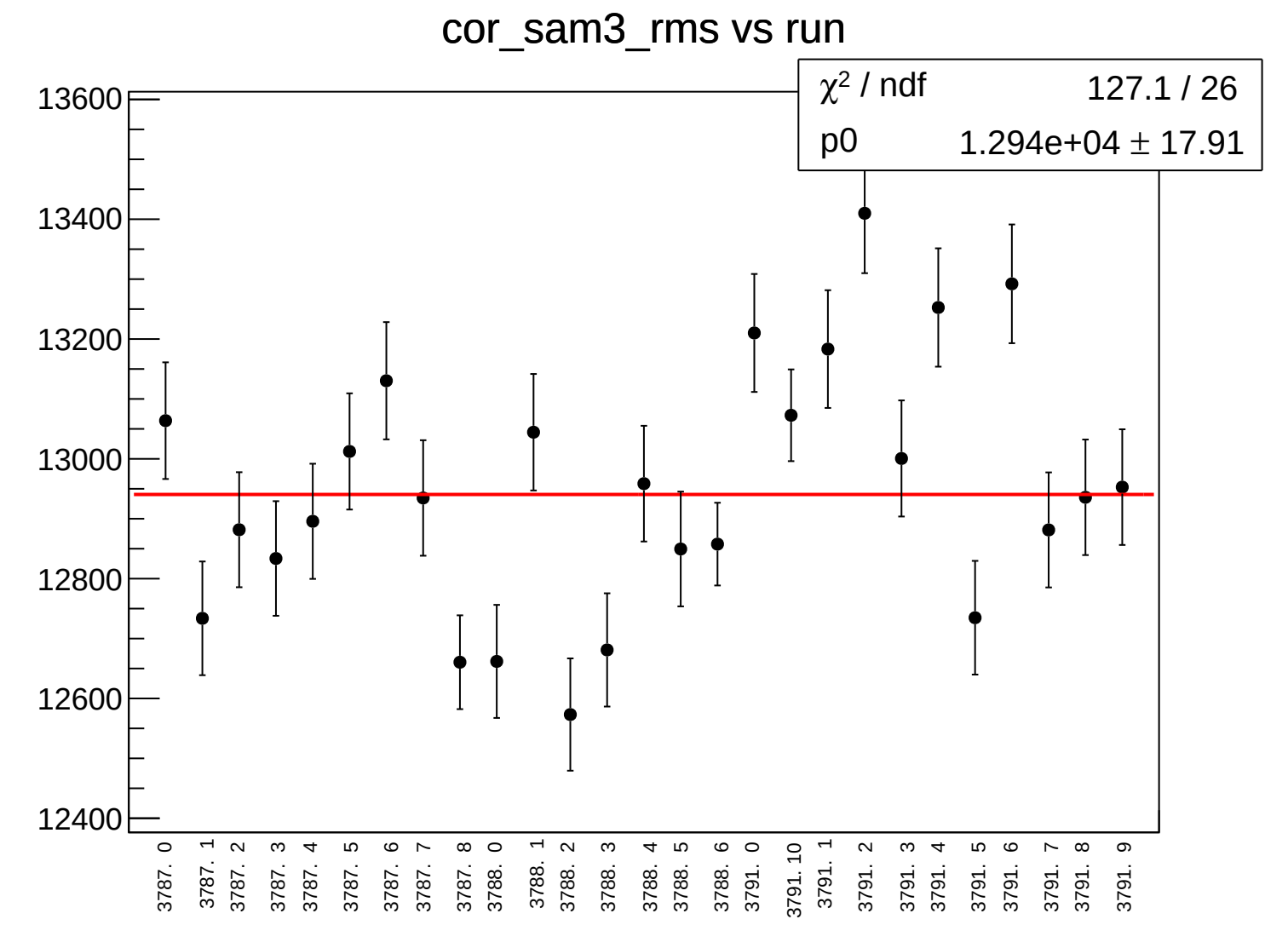

cor_sam2_mean vs run
×10^3
χ² / ndf 44.37 / 26
p0 1.208e+04 ± 1.782e+04
400
300
200
100
0
−100
−200
−300
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 5442
Std Dev 5427
3
2
1
0
−1
−2

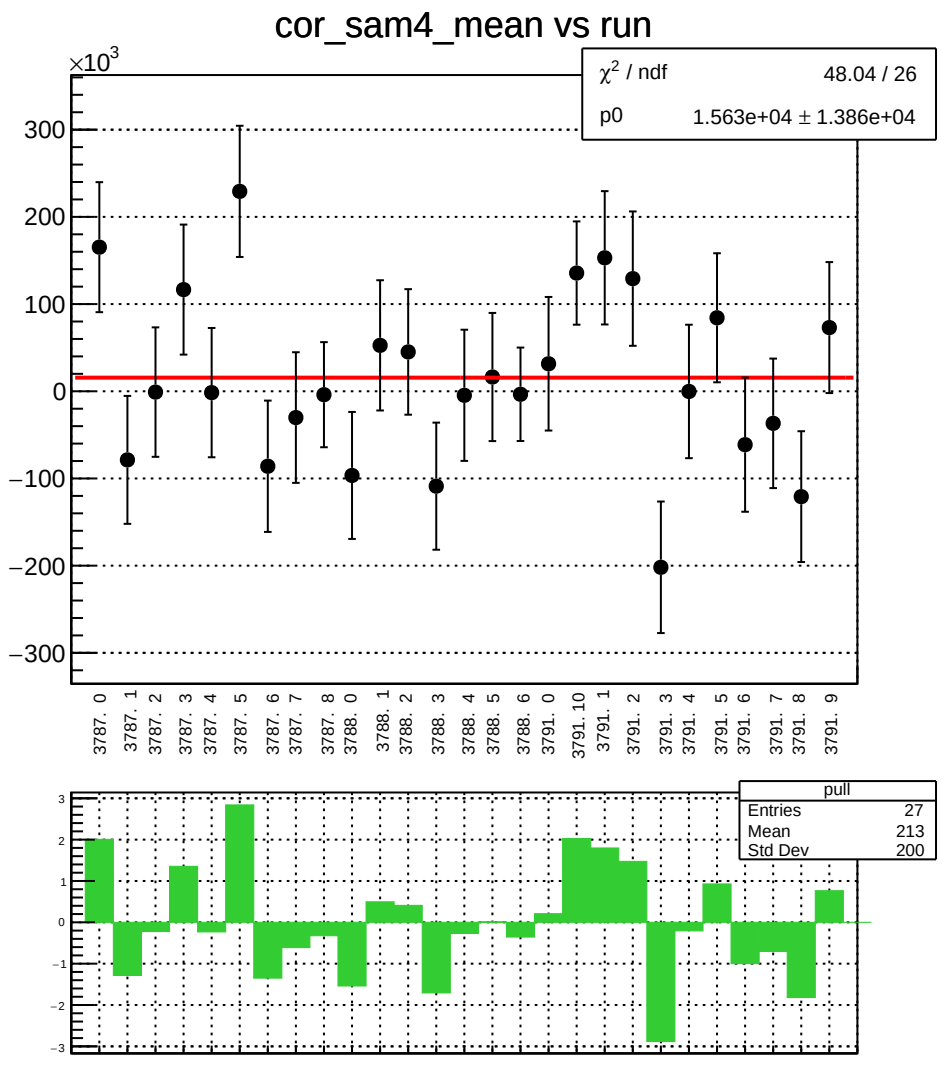

pull1D
Entries 27
Mean −0.0002507
Std Dev 1.282
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

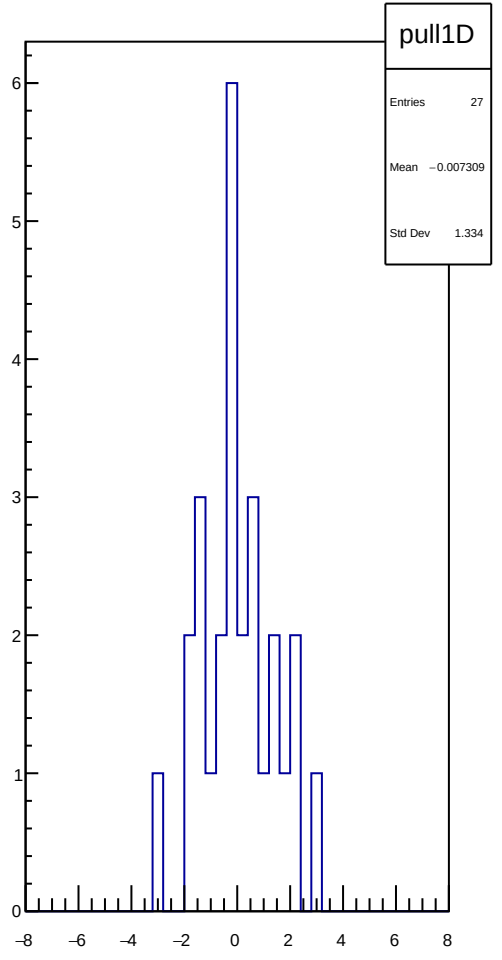

cor_sam2_rms vs run
χ² / ndf 79.94 / 26
p0 9101 ± 12.6
9400
9300
9200
9100
9000
8900
8800
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

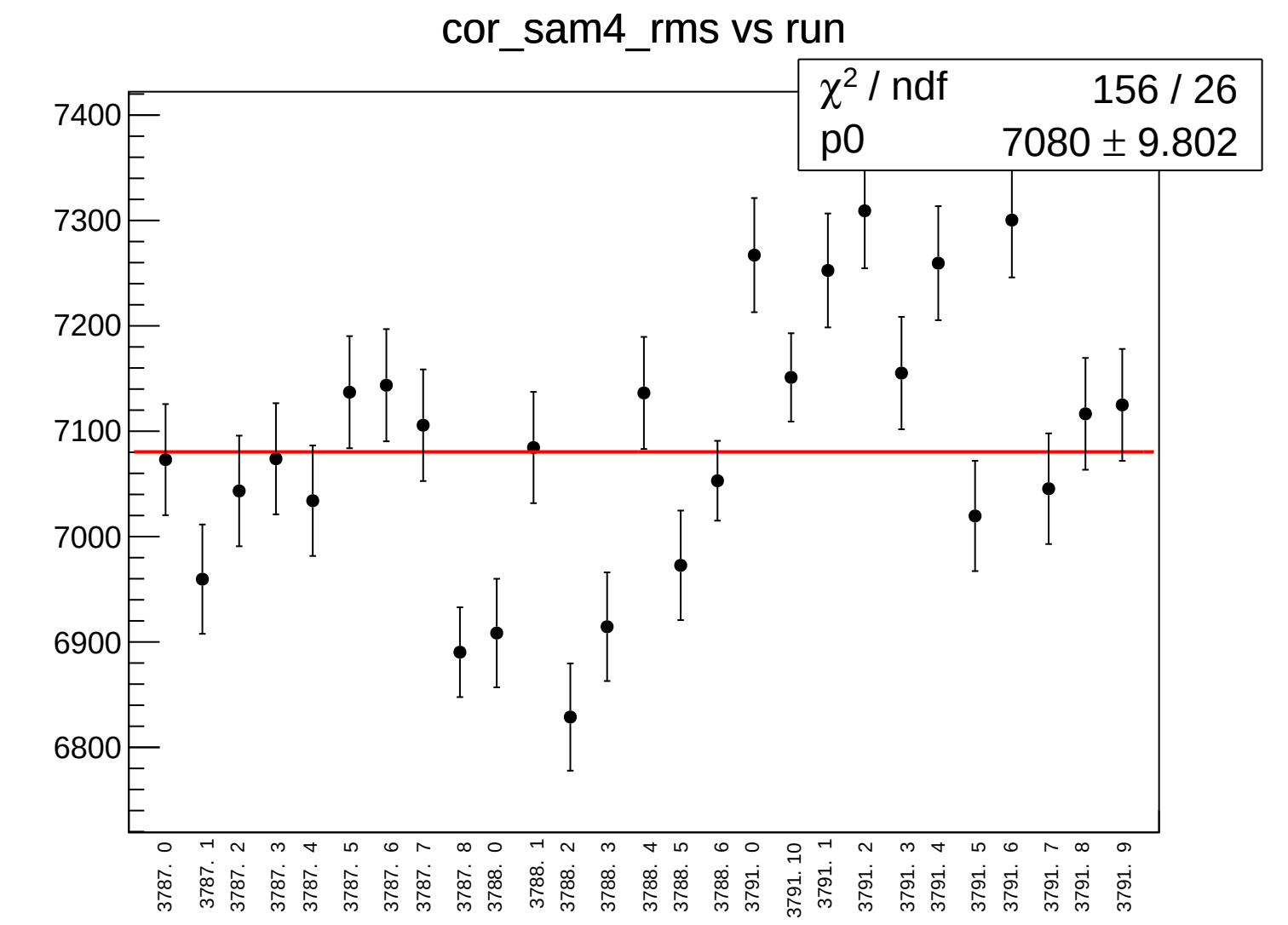

cor_sam3_mean vs run
×10^3
χ² / ndf 43.08 / 26
p0 2.345e+04 ± 2.533e+04
400
200
0
−200
−400
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −1380
Std Dev 1393
2
1
0
−1
−2

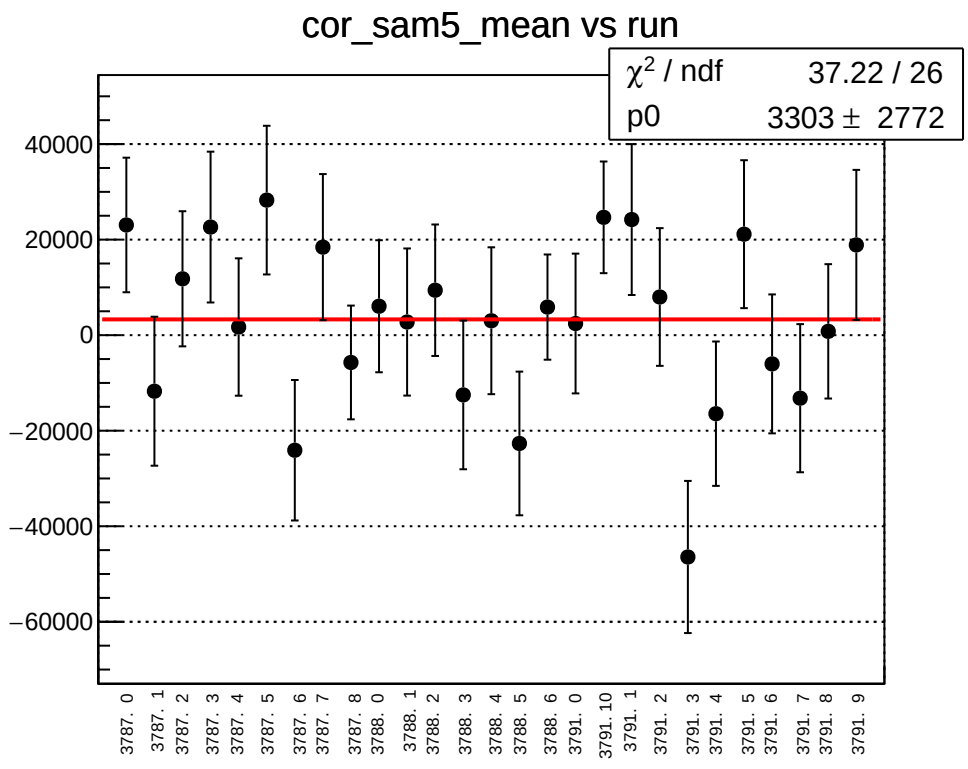

pull1D
Entries 27
Mean 0.0006998
Std Dev 1.263
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

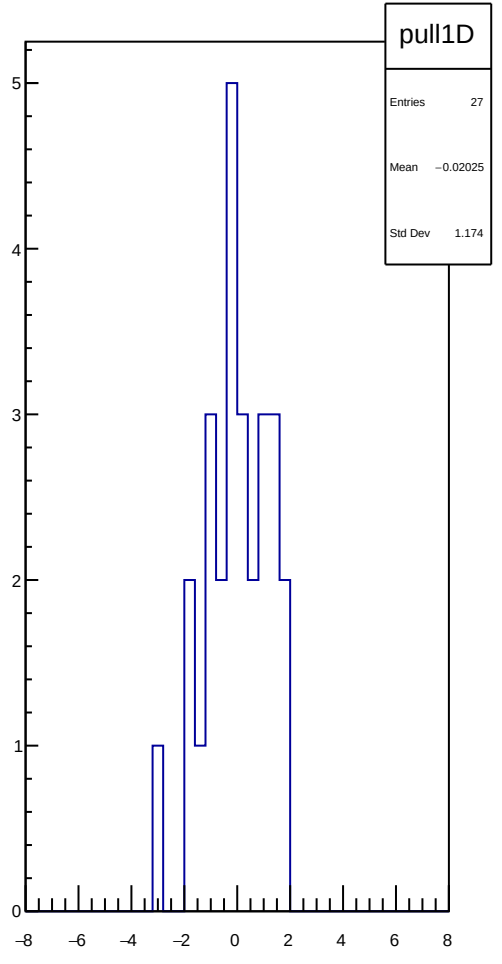

cor_sam3_rms vs run
χ² / ndf 127.1 / 26
p0 1.294e+04 ± 17.91
13600
13400
13200
13000
12800
12600
12400
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

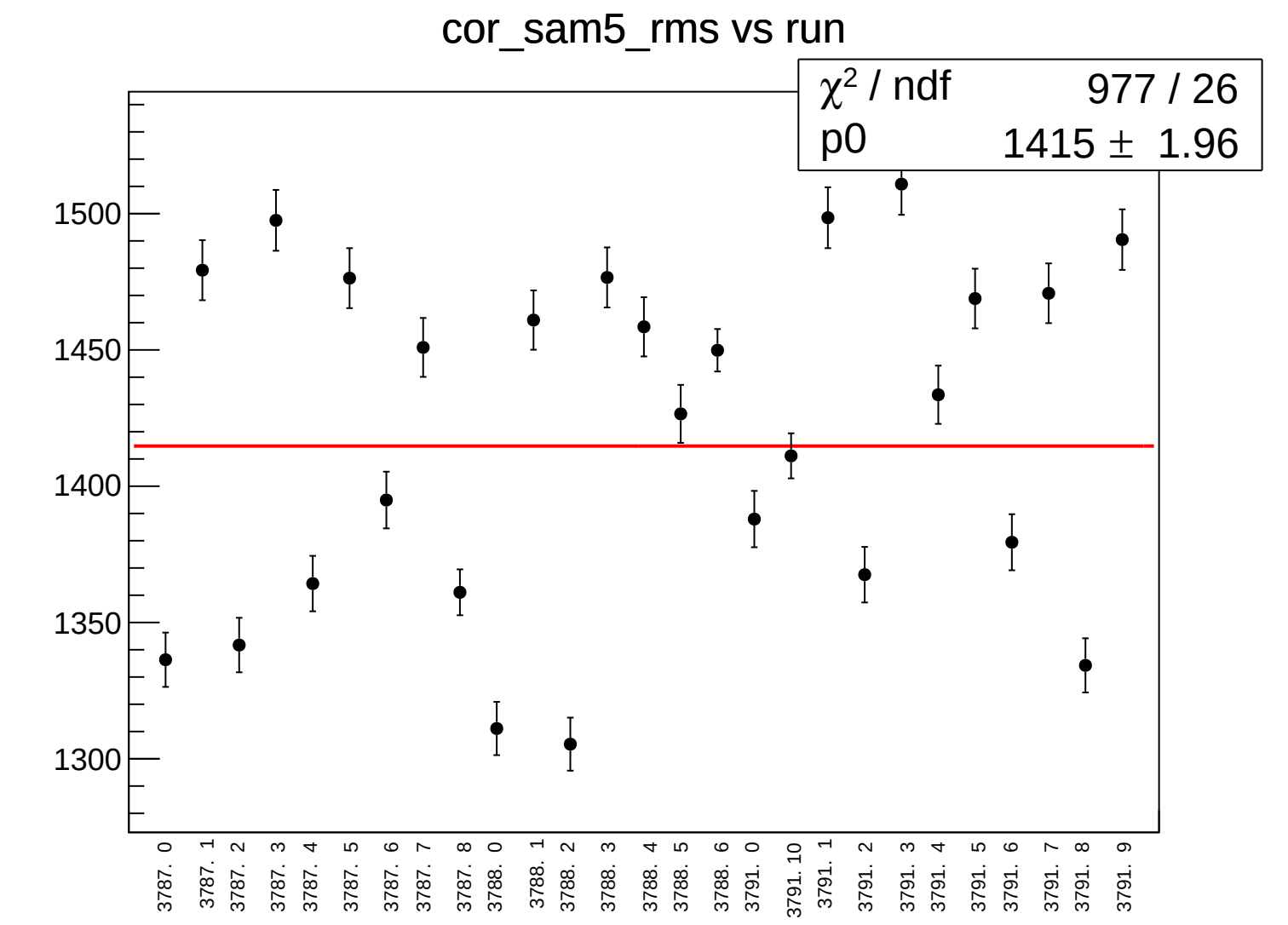

cor_sam4_mean vs run
×10^3
χ² / ndf 48.04 / 26
p0 1.563e+04 ± 1.386e+04
300
200
100
0
−100
−200
−300
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 213
Std Dev 200
3
2
1
0
−1
−2
−3

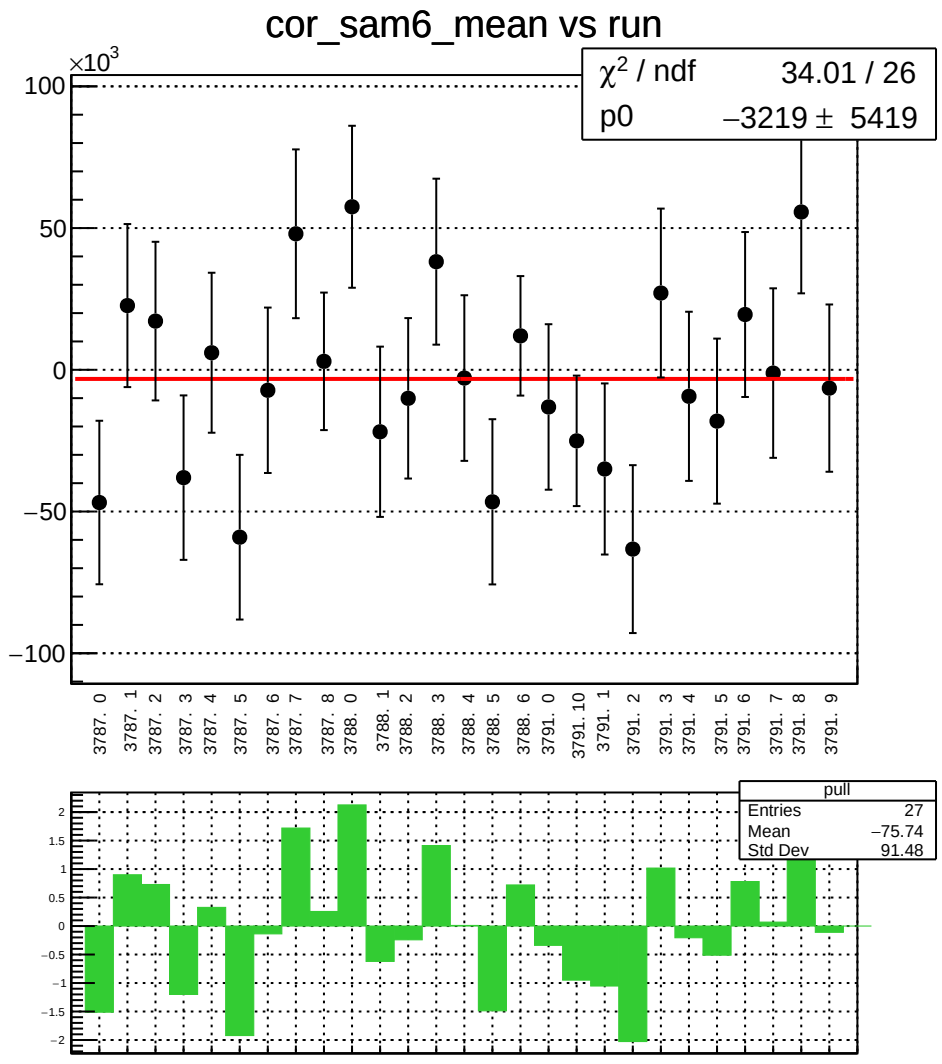

pull1D
Entries 27
Mean −0.007309
Std Dev 1.334
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

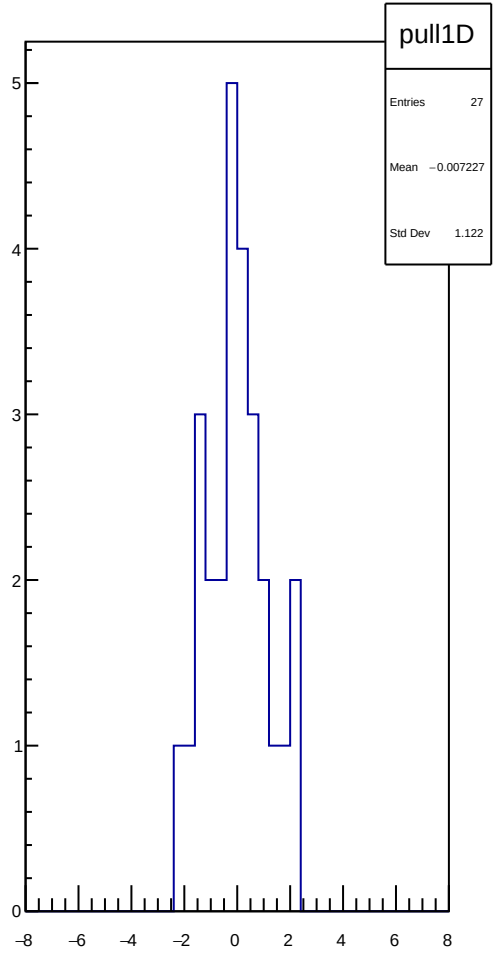

cor_sam4_rms vs run
χ² / ndf 156 / 26
p0 7080 ± 9.802
7400
7300
7200
7100
7000
6900
6800
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

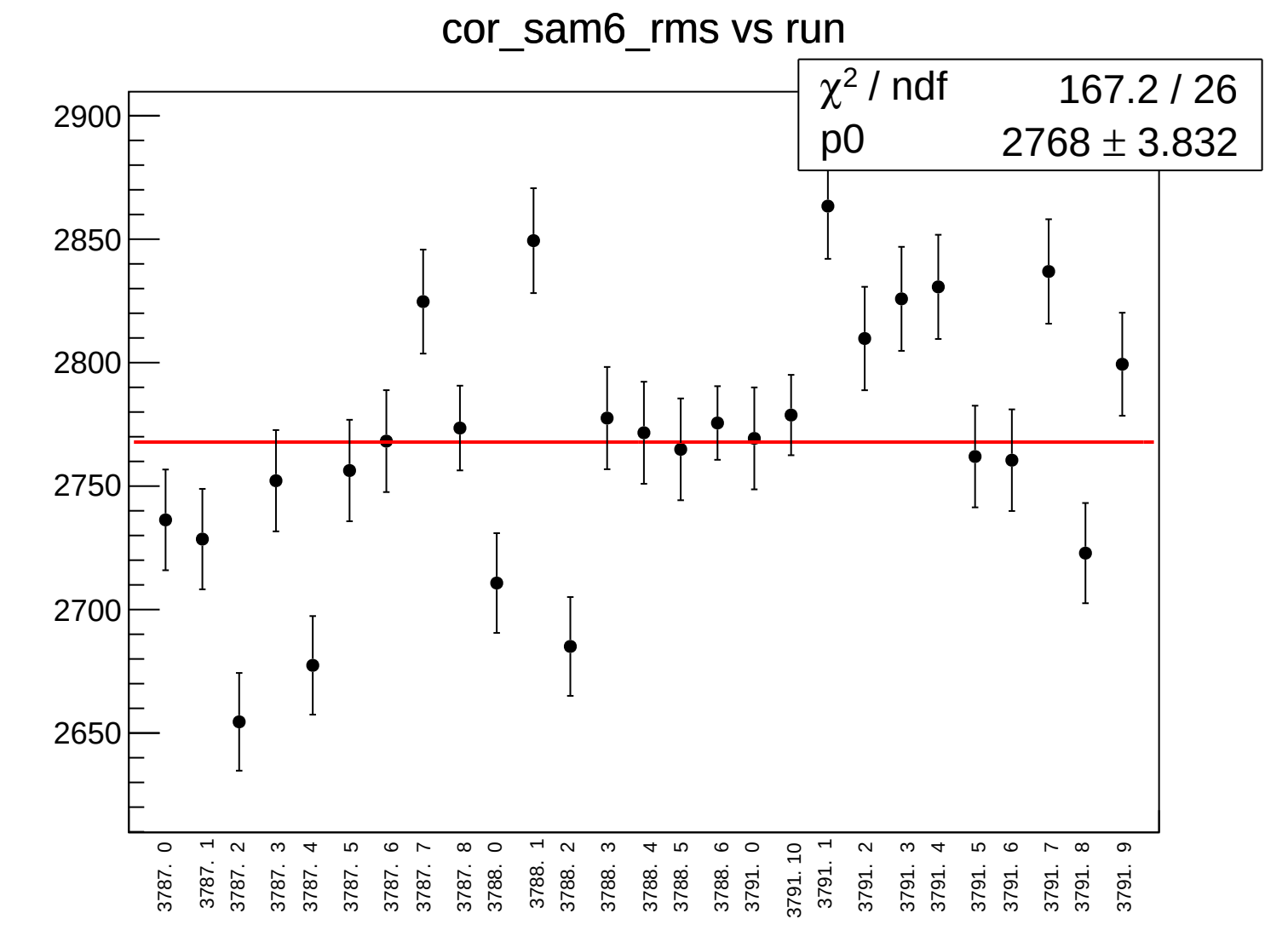

cor_sam5_mean vs run
χ² / ndf 37.22 / 26
p0 3303 ± 2772
40000
20000
0
−20000
−40000
−60000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 90.08
Std Dev 78.87
2
1
0
−1
−2
−3

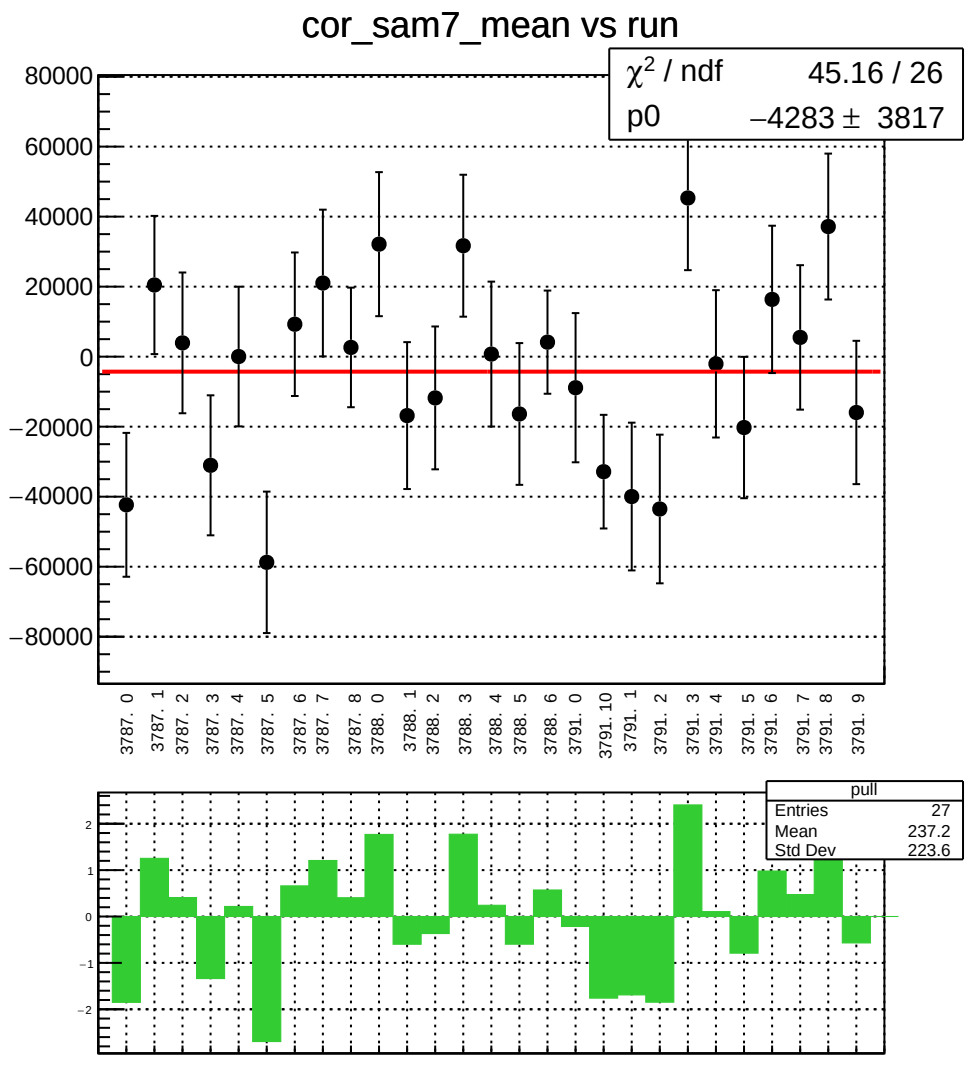

pull1D
Entries 27
Mean −0.02025
Std Dev 1.174
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

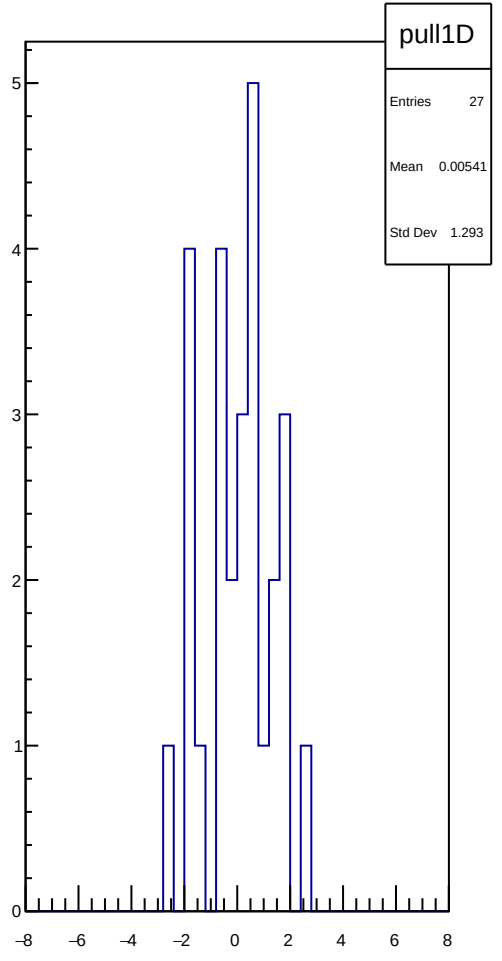

cor_sam5_rms vs run
χ² / ndf 977 / 26
p0 1415 ± 1.96
1500
1450
1400
1350
1300
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

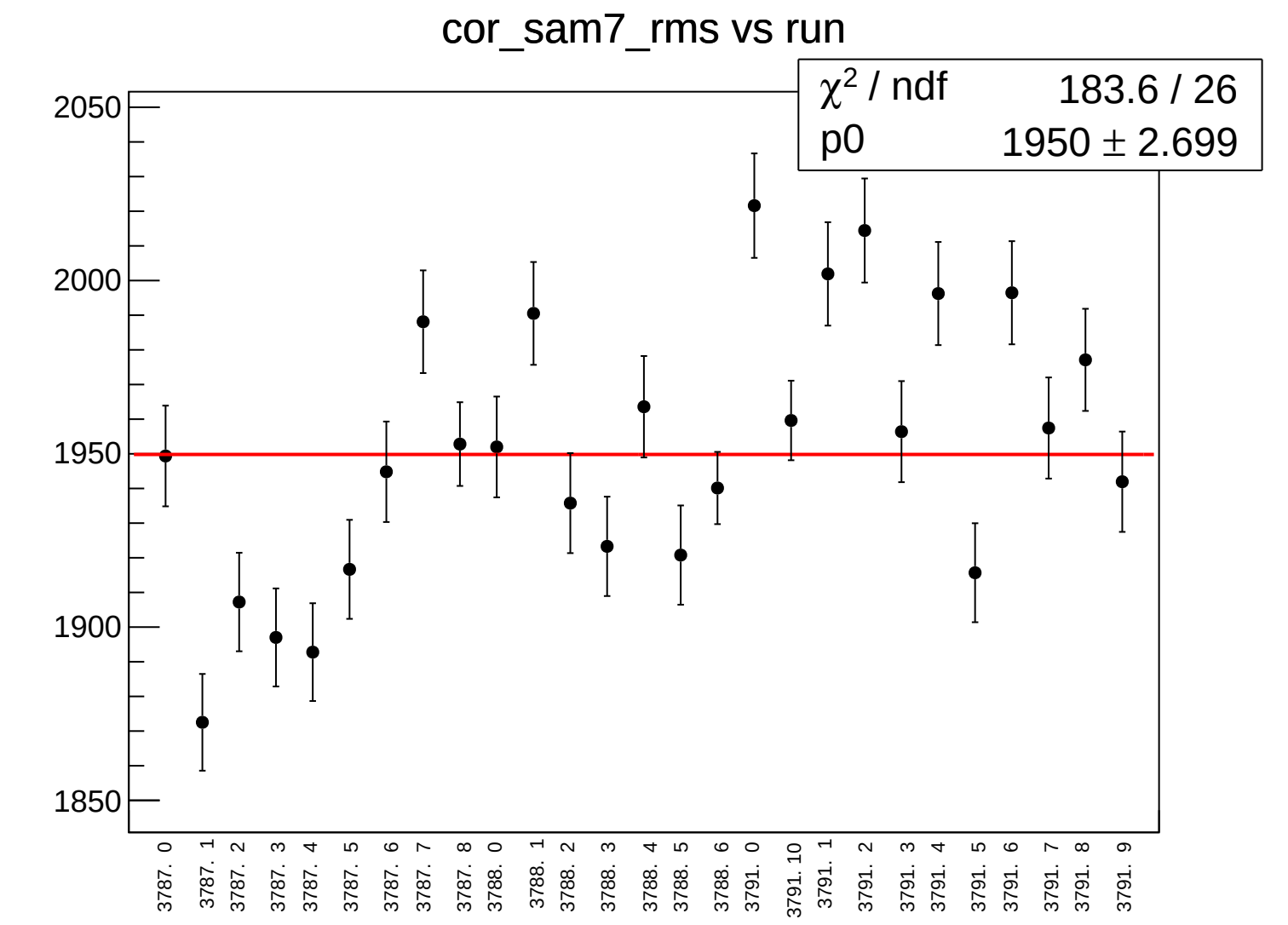

cor_sam6_mean vs run
×10^3
χ^2 / ndf 34.01 / 26
p0 −3219 ± 5419
100
50
0
−50
−100
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −75.74
Std Dev 91.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

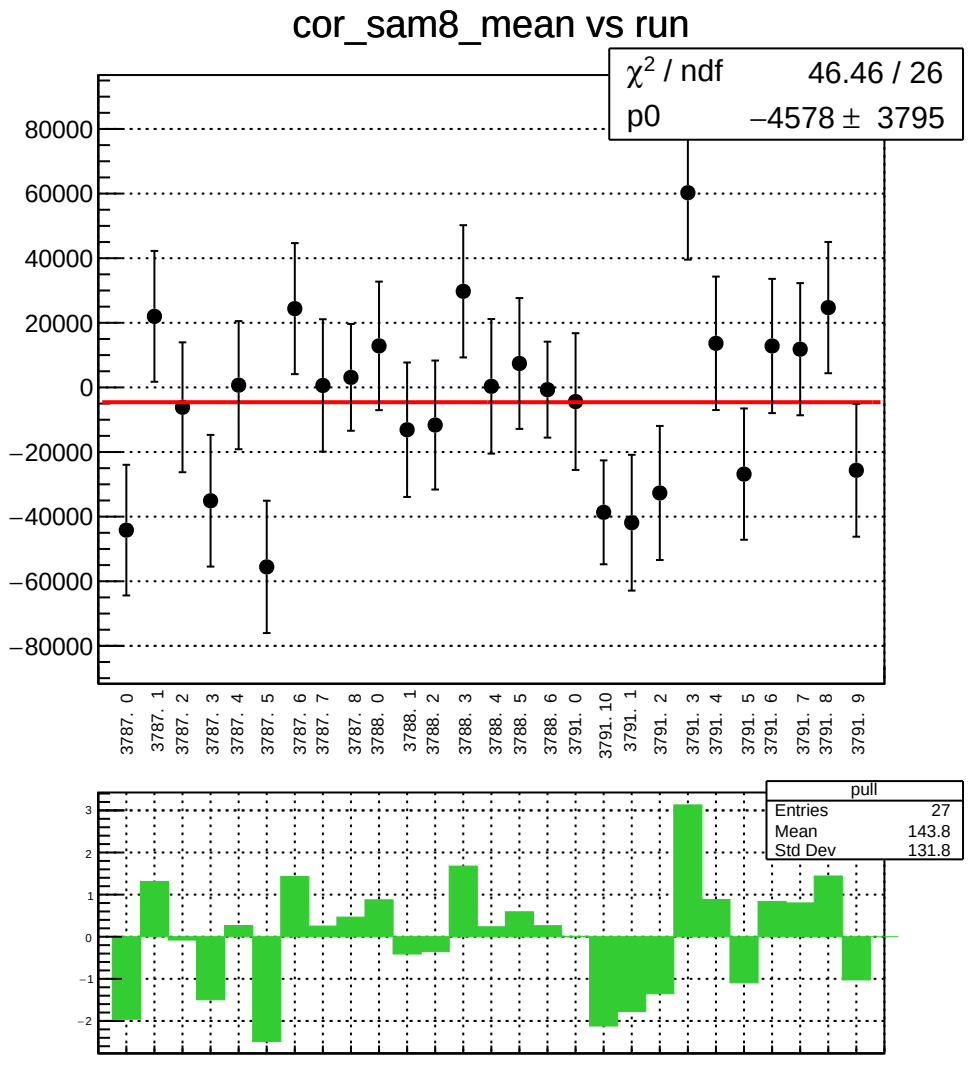

pull1D
Entries 27
Mean −0.007227
Std Dev 1.122
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

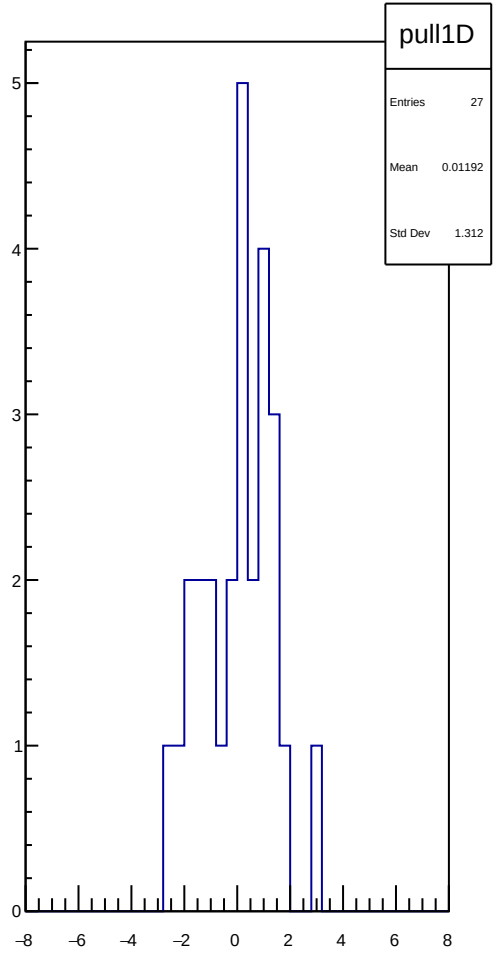

cor_sam6_rms vs run
χ² / ndf 167.2 / 26
p0 2768 ± 3.832
2900
2850
2800
2750
2700
2650
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

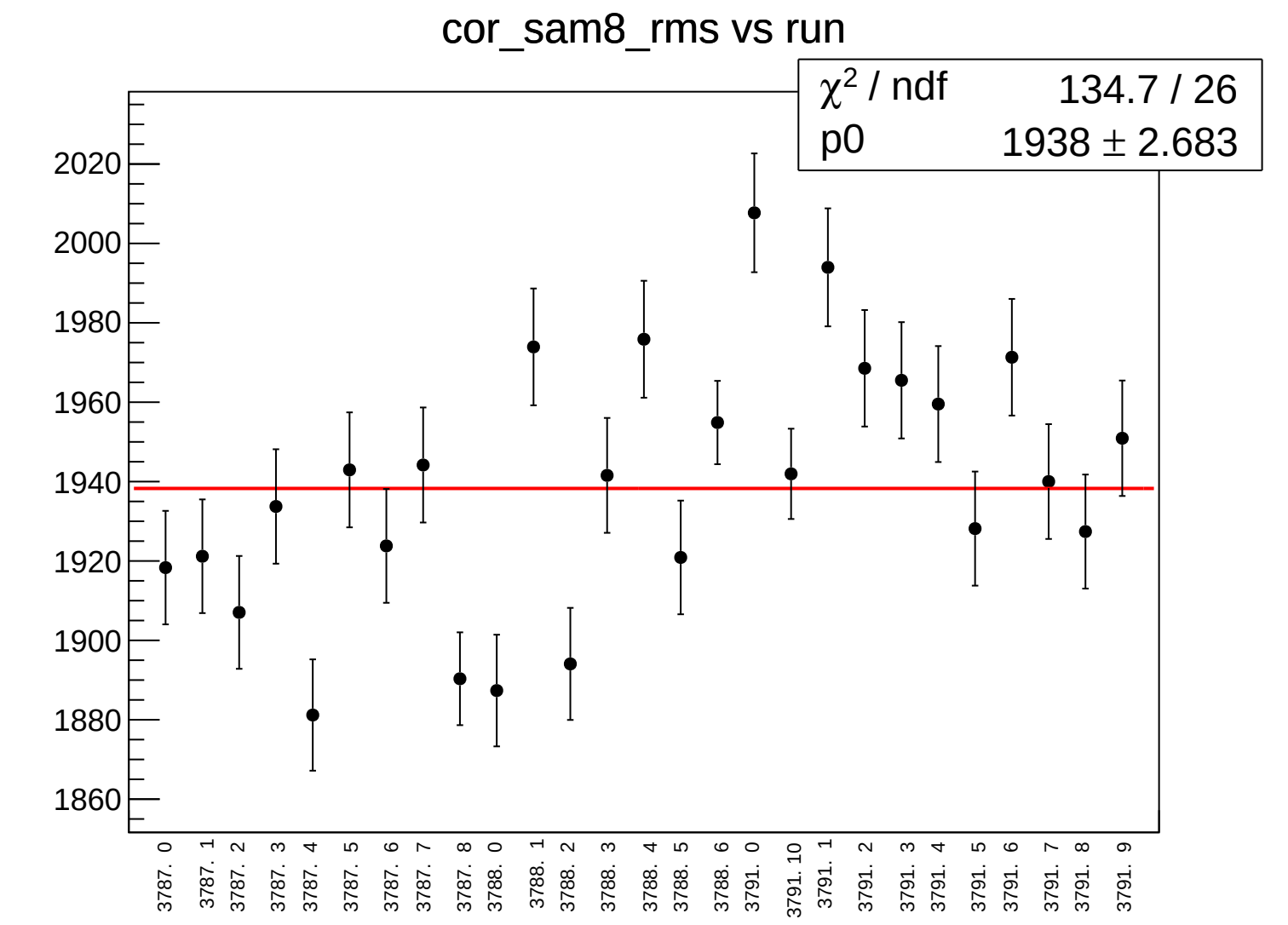

cor_sam7_mean vs run
χ² / ndf 45.16 / 26
p0 −4283 ± 3817
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 237.2
Std Dev 223.6
2
1
0
−1
−2

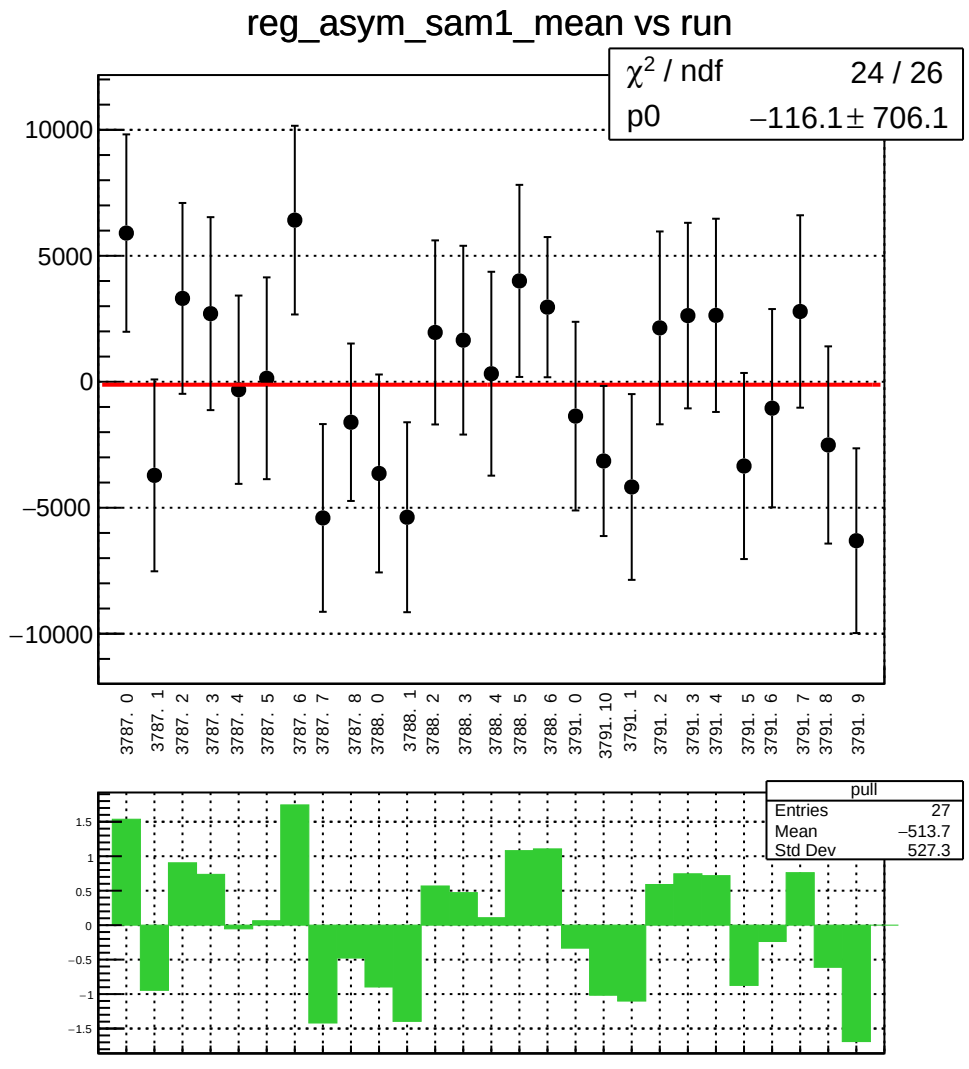

pull1D
Entries 27
Mean 0.00541
Std Dev 1.293
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

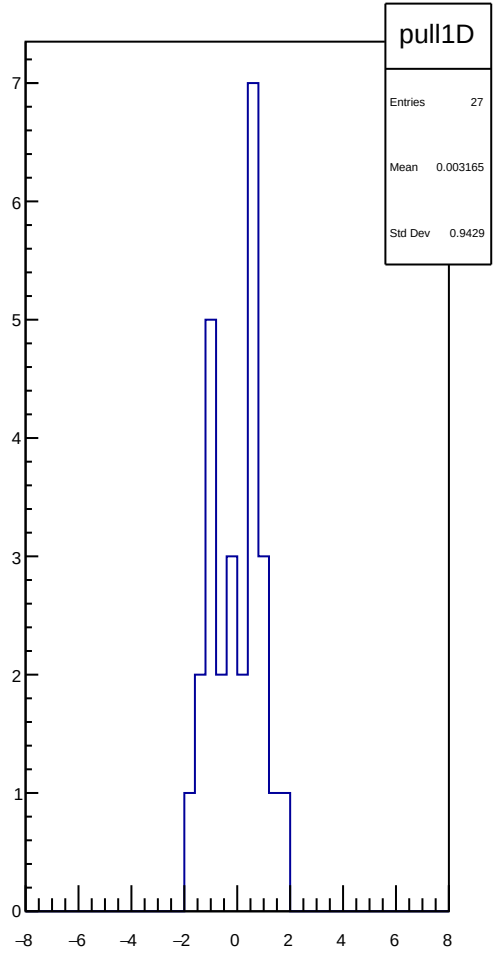

cor_sam7_rms vs run
χ² / ndf 183.6 / 26
p0 1950 ± 2.699
2050
2000
1950
1900
1850
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

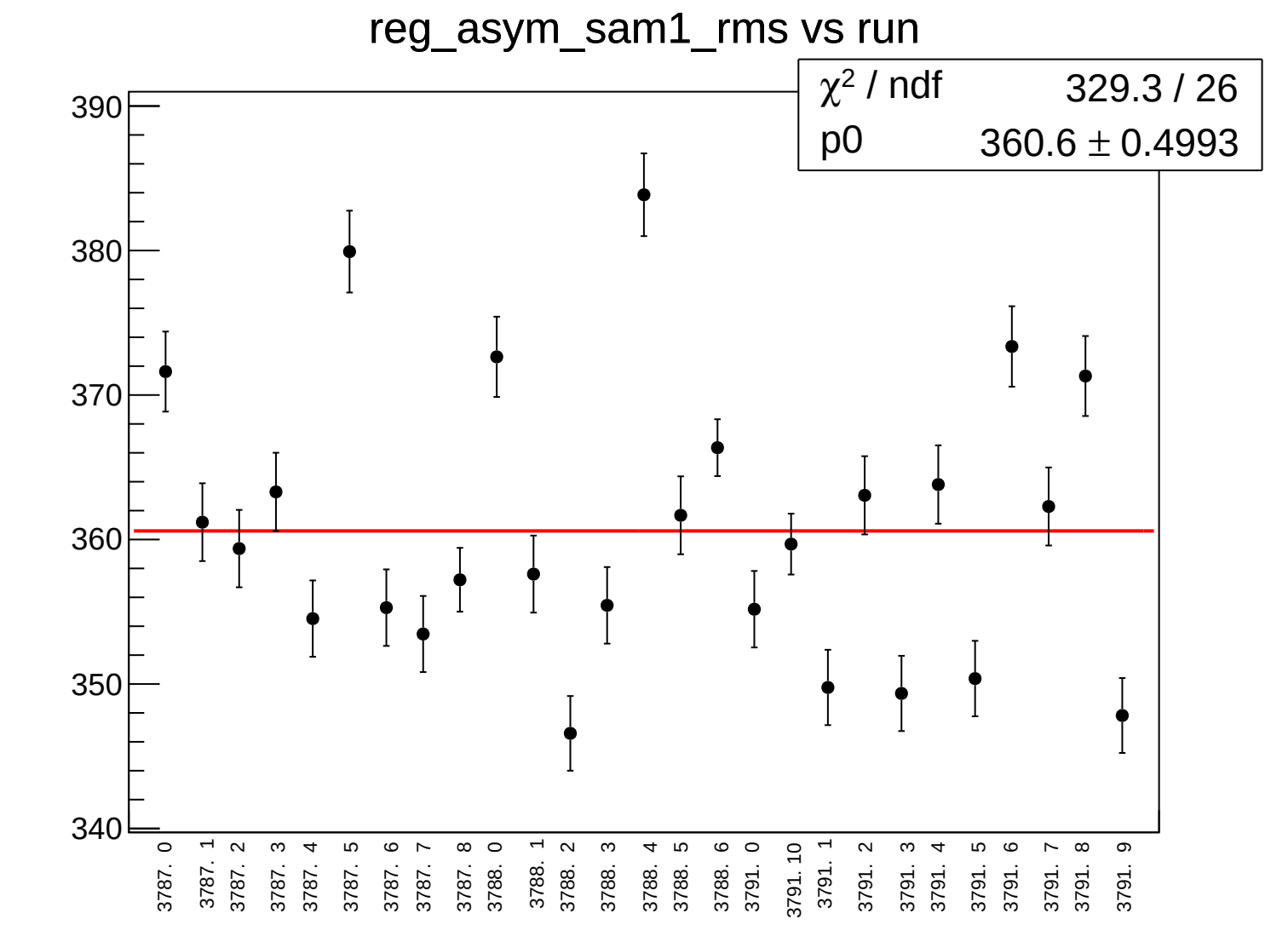

cor_sam8_mean vs run
χ² / ndf 46.46 / 26
p0 −4578 ± 3795
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 143.8
Std Dev 131.8
3
2
1
0
−1
−2

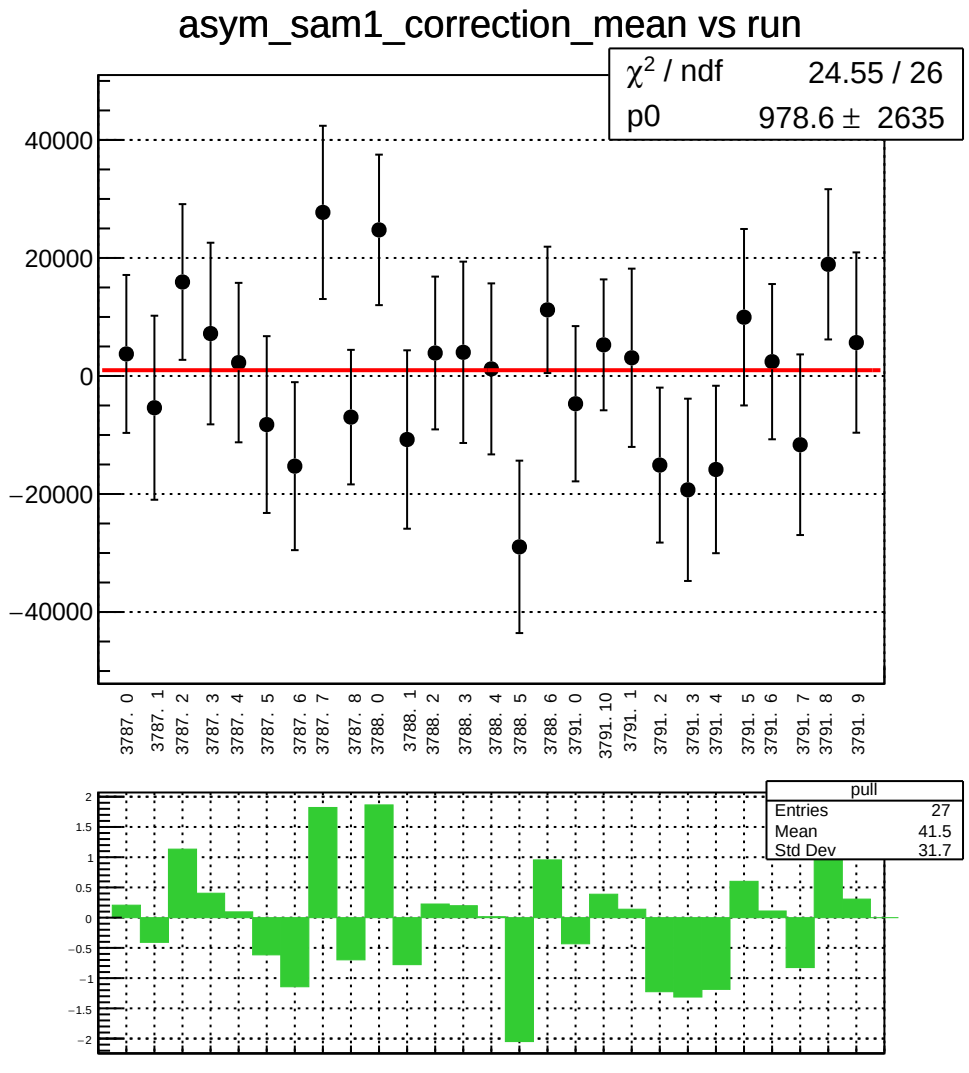

pull1D
Entries 27
Mean 0.01192
Std Dev 1.312
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

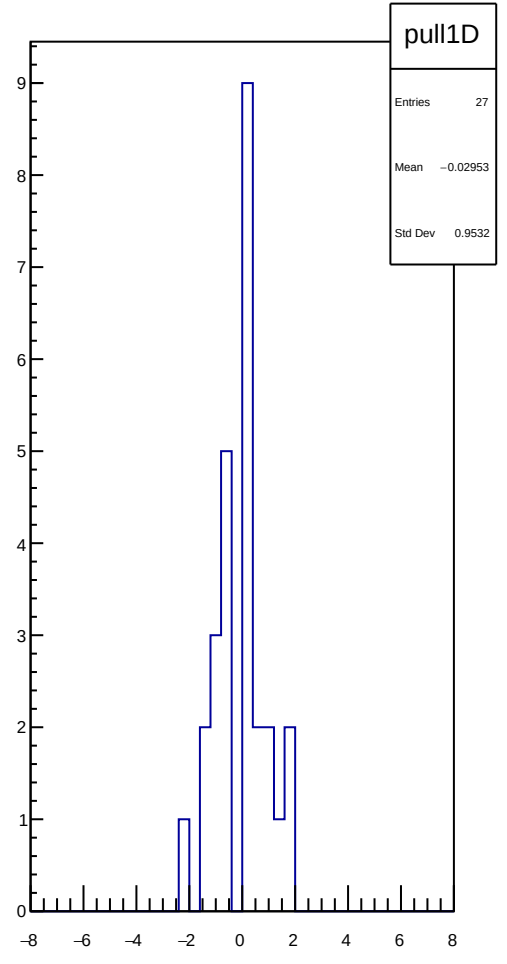

cor_sam8_rms vs run
χ² / ndf 134.7 / 26
p0 1938 ± 2.683
2020
2000
1980
1960
1940
1920
1900
1880
1860
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

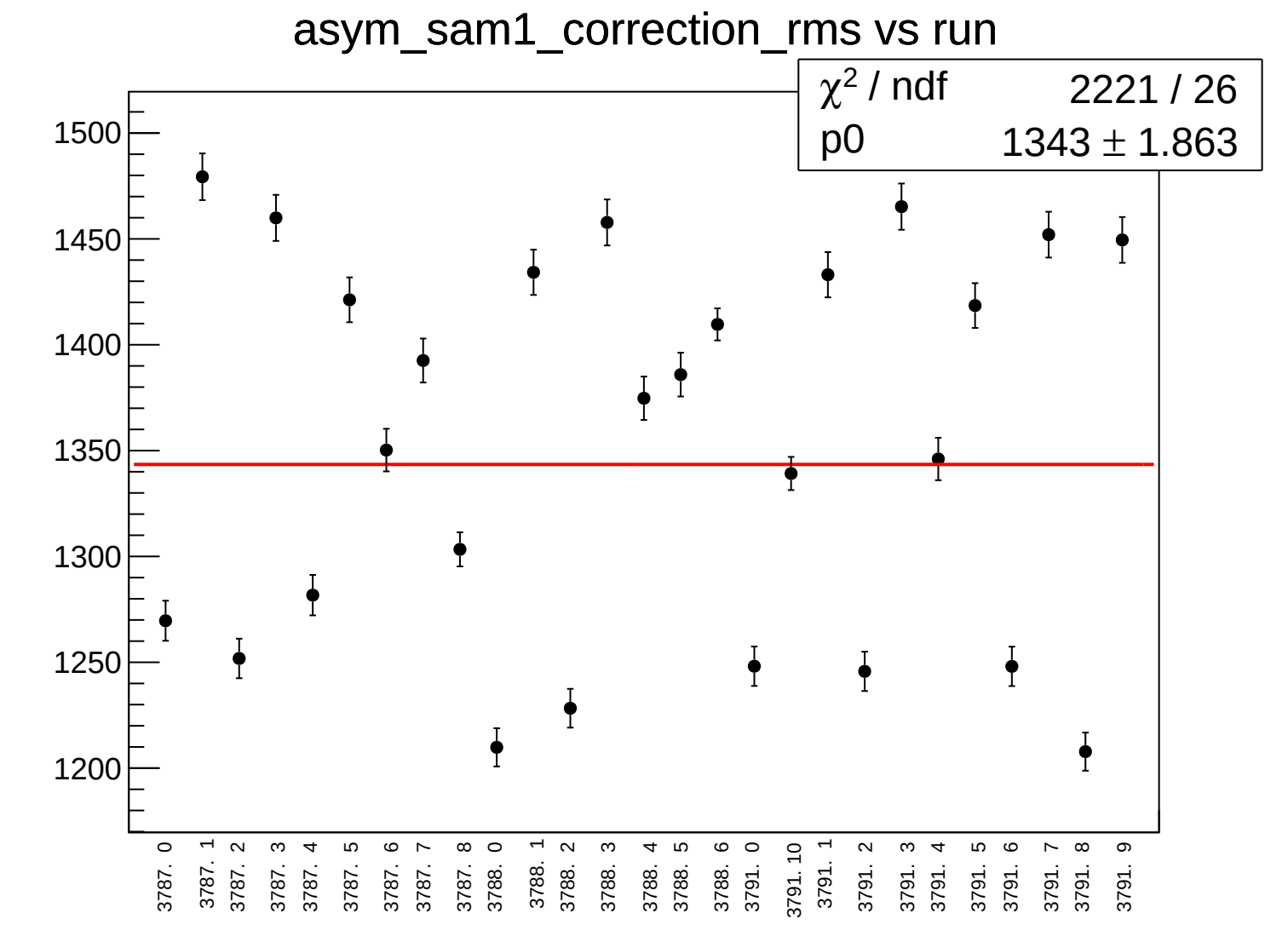

reg_asym_sam1_mean vs run
χ² / ndf 24 / 26
p0 −116.1 ± 706.1
10000
5000
0
−5000
−10000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −513.7
Std Dev 527.3
1.5
1
0.5
0
−0.5
−1
−1.5

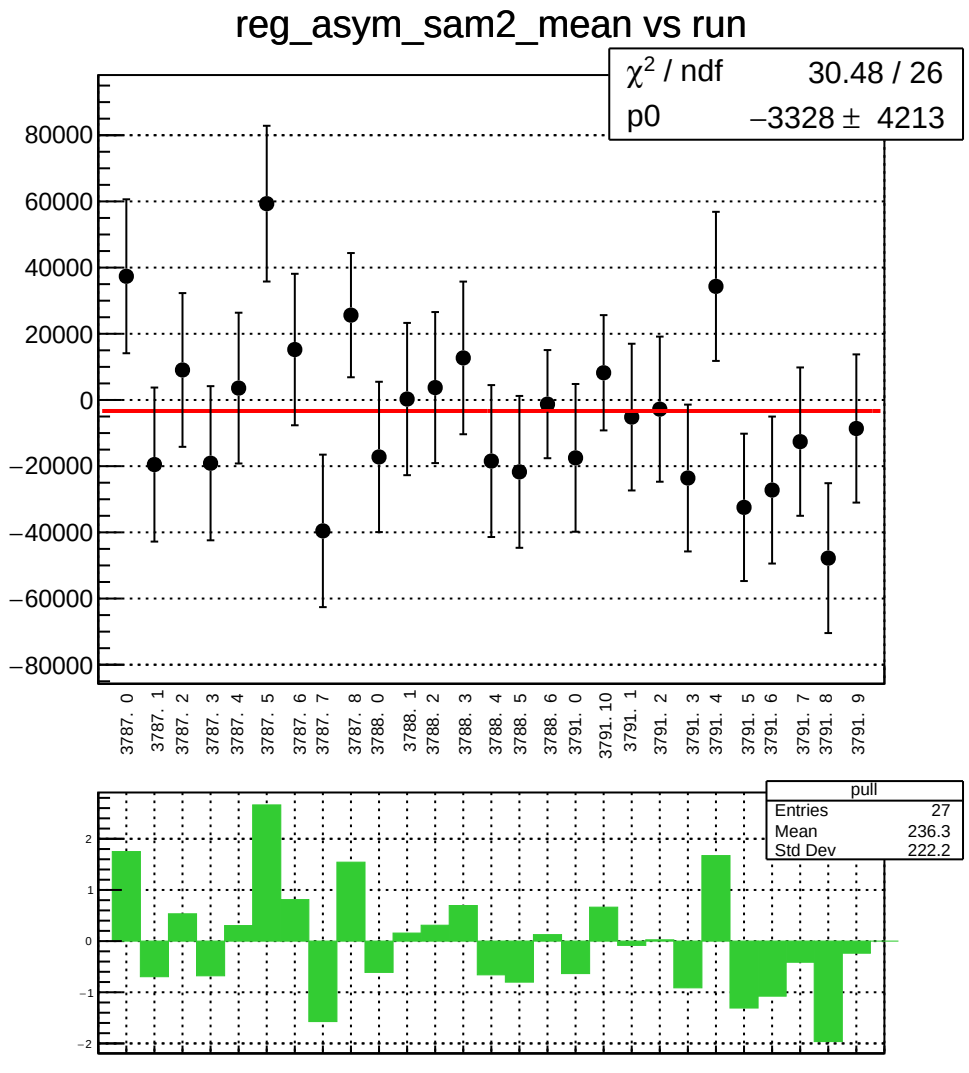

pull1D
Entries 27
Mean 0.003165
Std Dev 0.9429
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

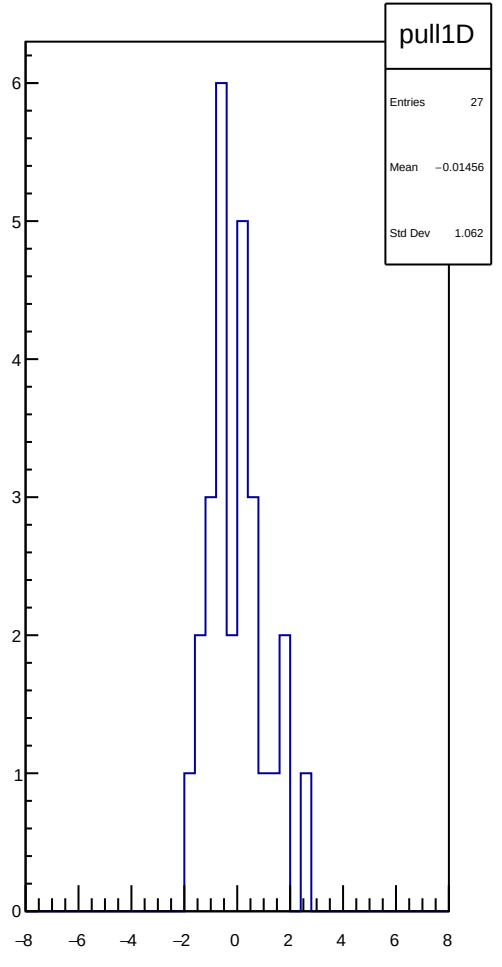

reg_asym_sam1_rms vs run
χ² / ndf 329.3 / 26
p0 360.6 ± 0.4993
390
380
370
360
350
340
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

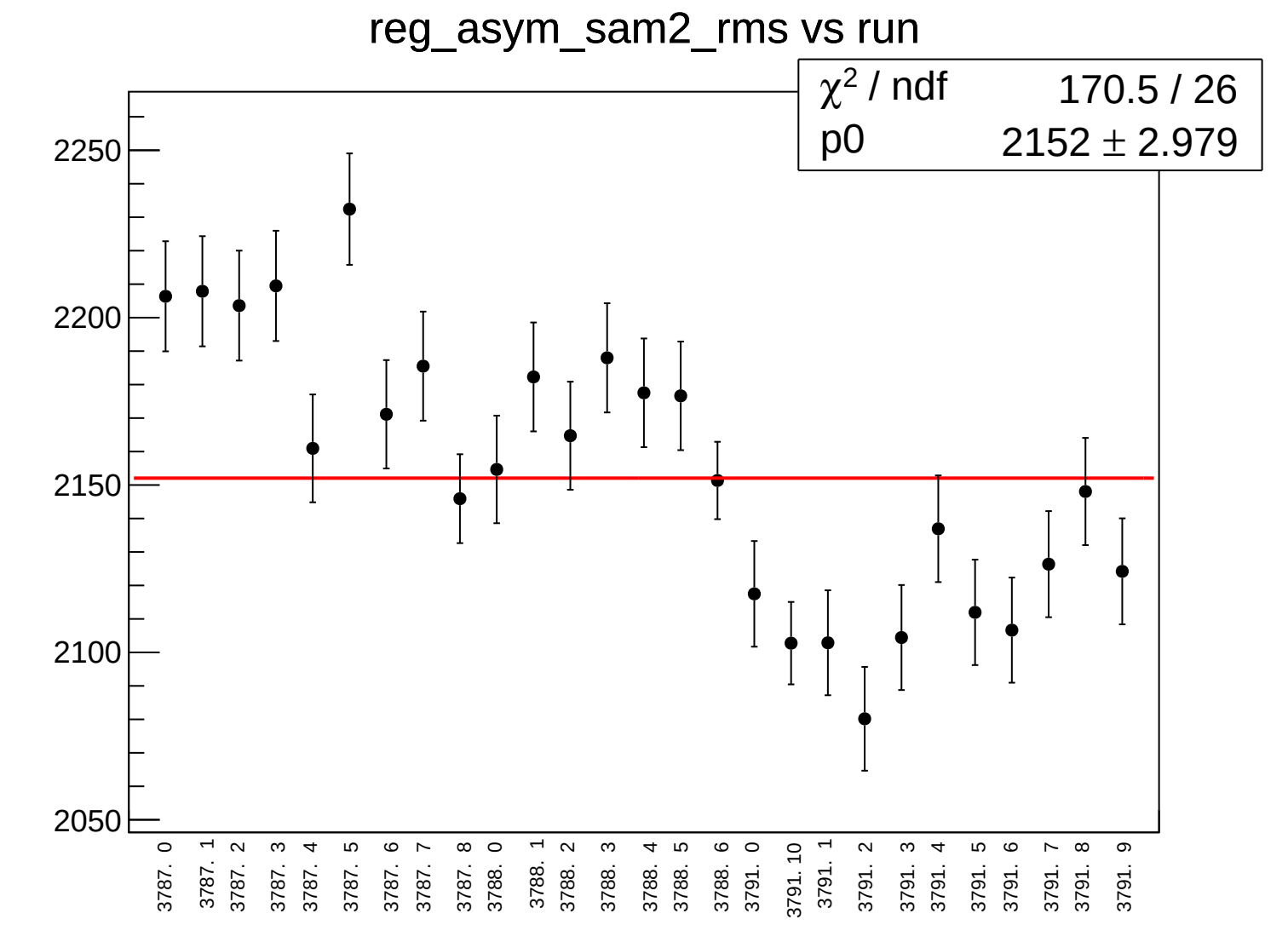

asym_sam1_correction_mean vs run
χ² / ndf 24.55 / 26
p0 978.6 ± 2635
40000
20000
0
−20000
−40000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 41.5
Std Dev 31.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

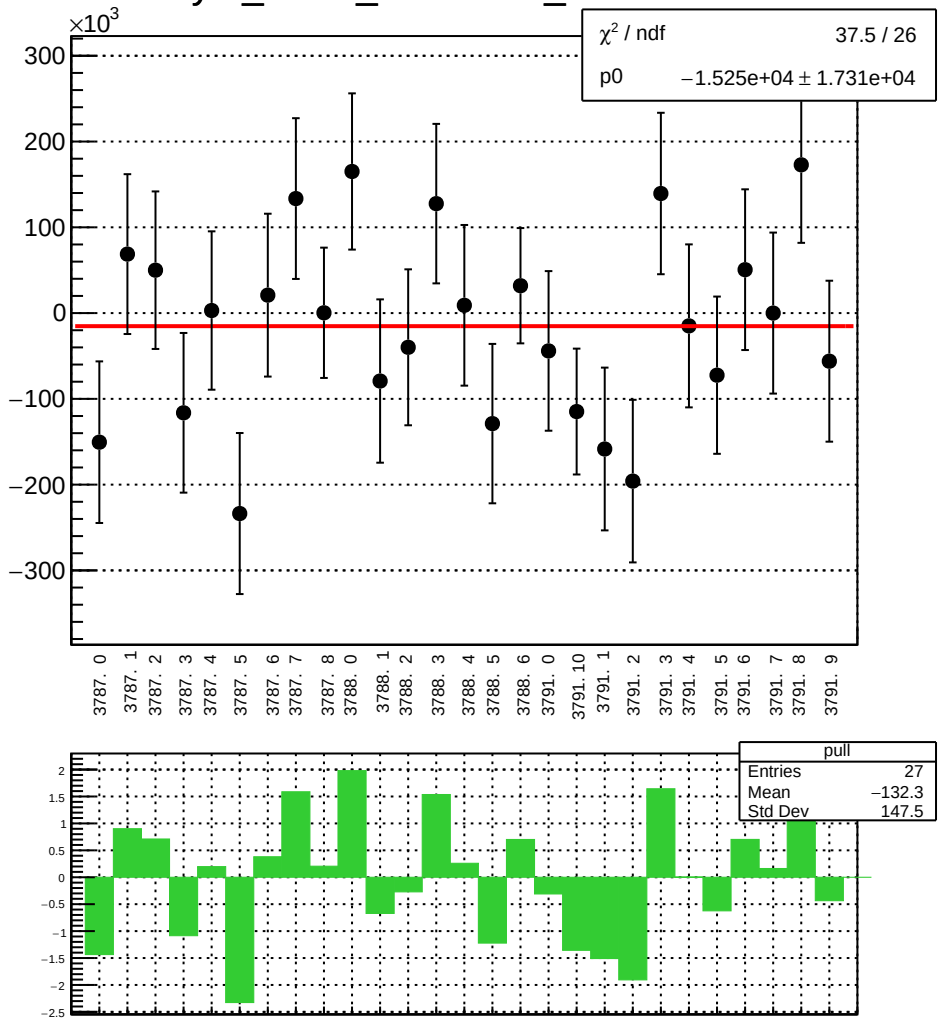

pull1D
Entries 27
Mean −0.02953
Std Dev 0.9532
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

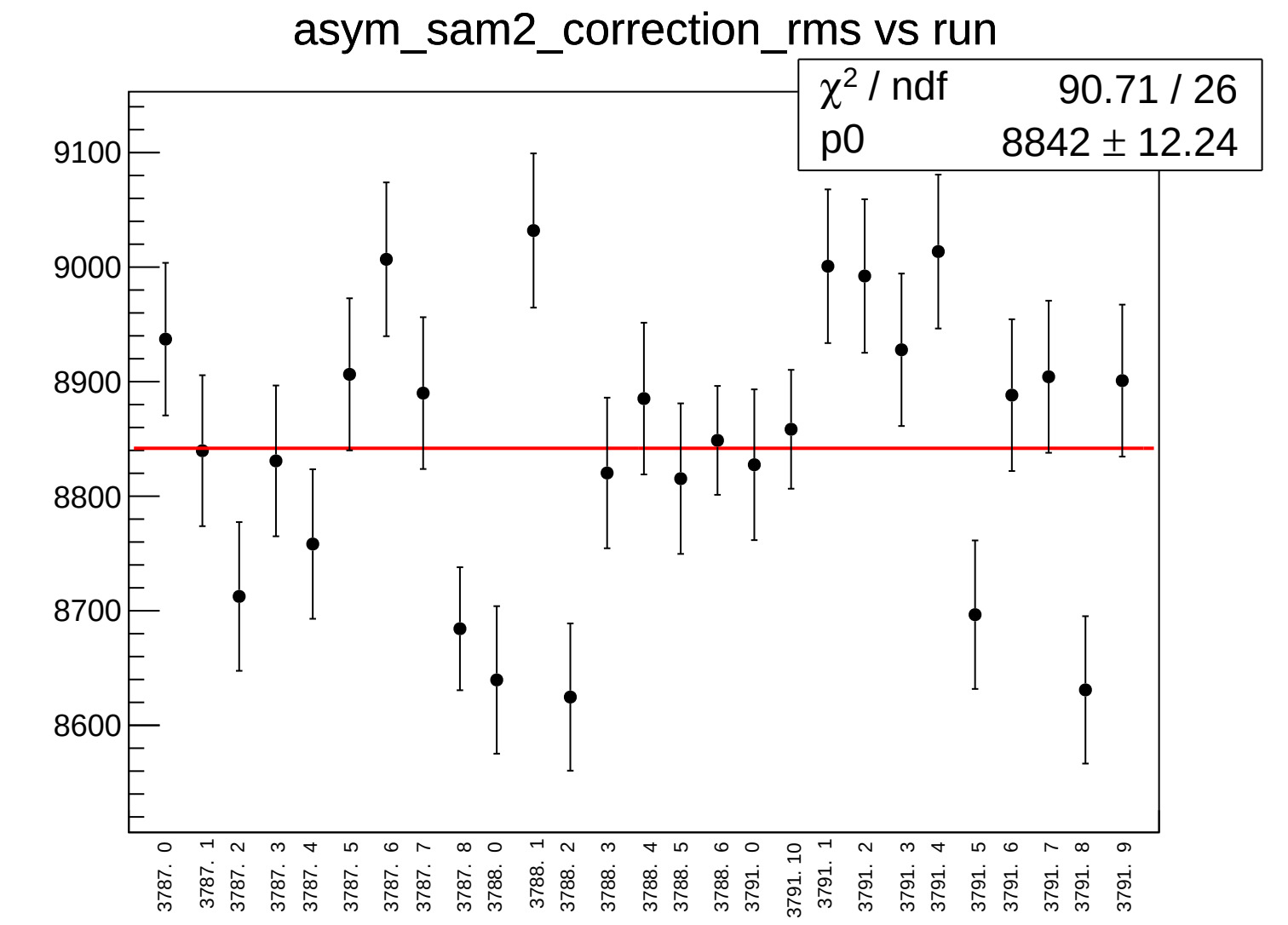

asym_sam1_correction_rms vs run
χ² / ndf 2221 / 26
p0 1343 ± 1.863
1500
1450
1400
1350
1300
1250
1200
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

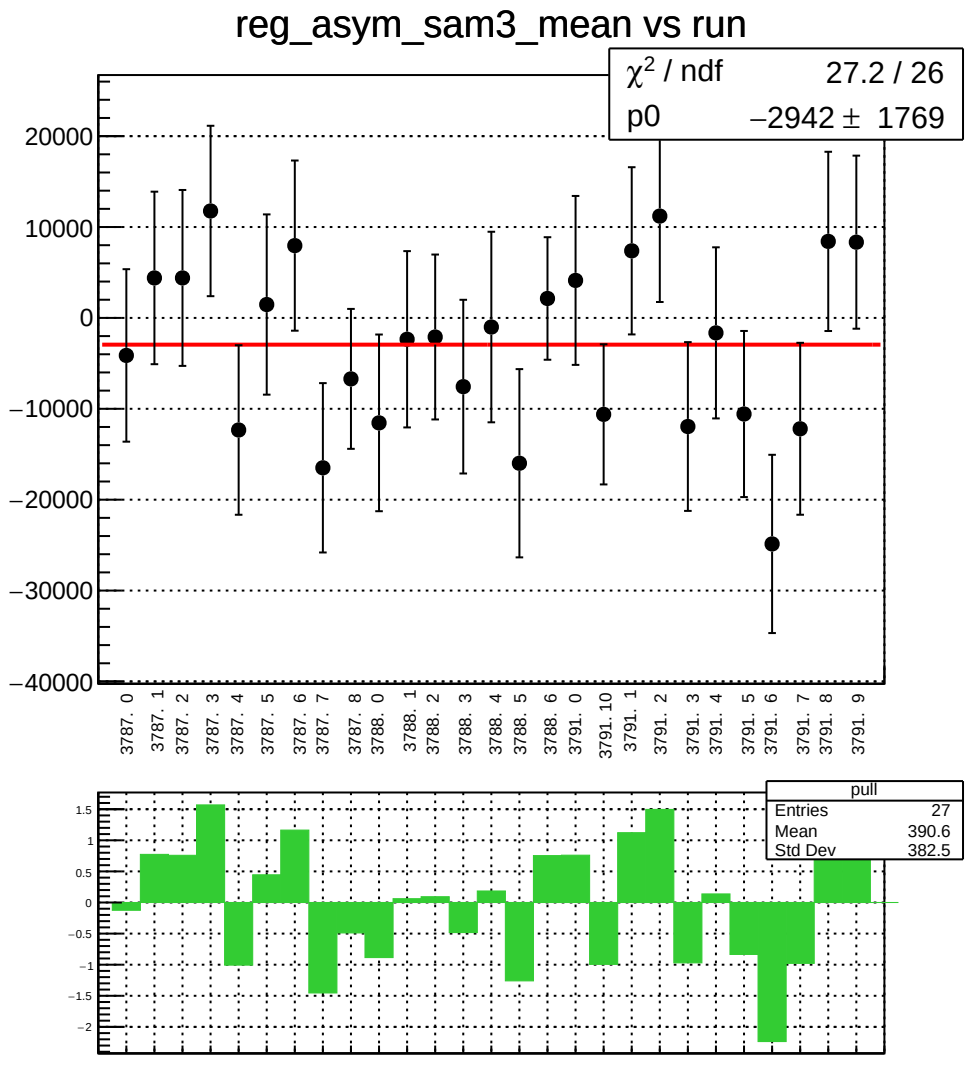

reg_asym_sam2_mean vs run
χ² / ndf 30.48 / 26
p0 −3328 ± 4213
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 236.3
Std Dev 222.2
2
1
0
−1
−2

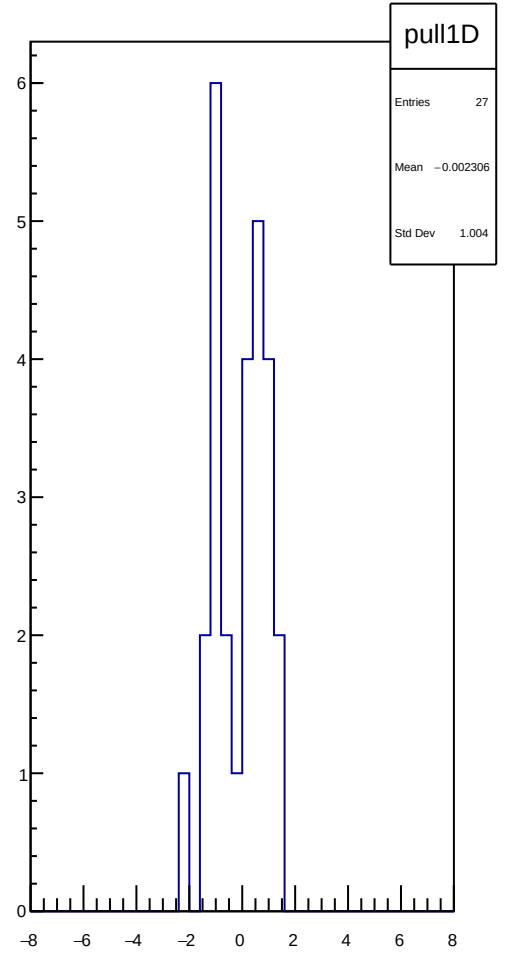

pull1D
Entries 27
Mean −0.01456
Std Dev 1.062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

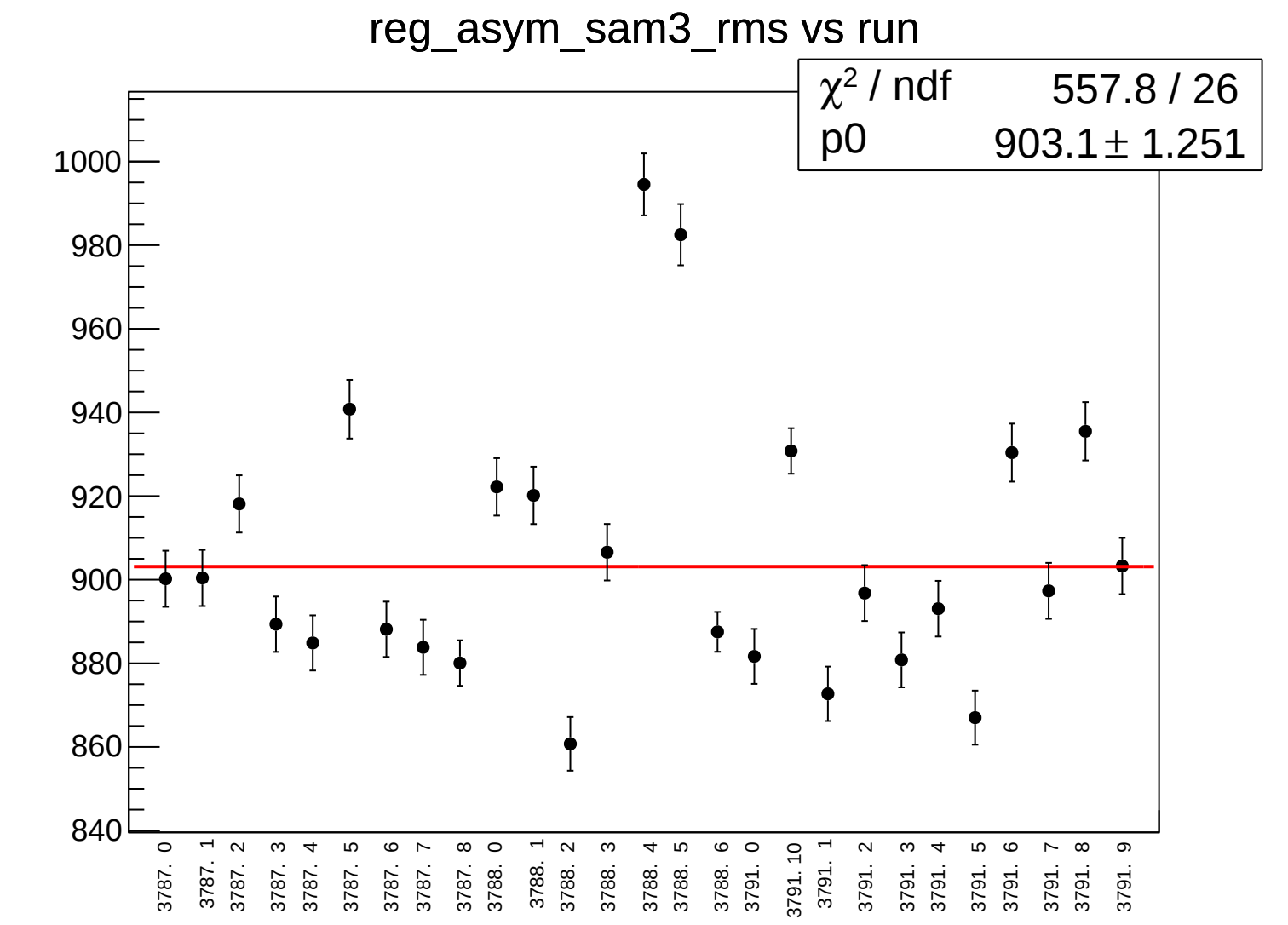

reg_asym_sam2_rms vs run
χ² / ndf 170.5 / 26
p0 2152 ± 2.979
2250
2200
2150
2100
2050
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

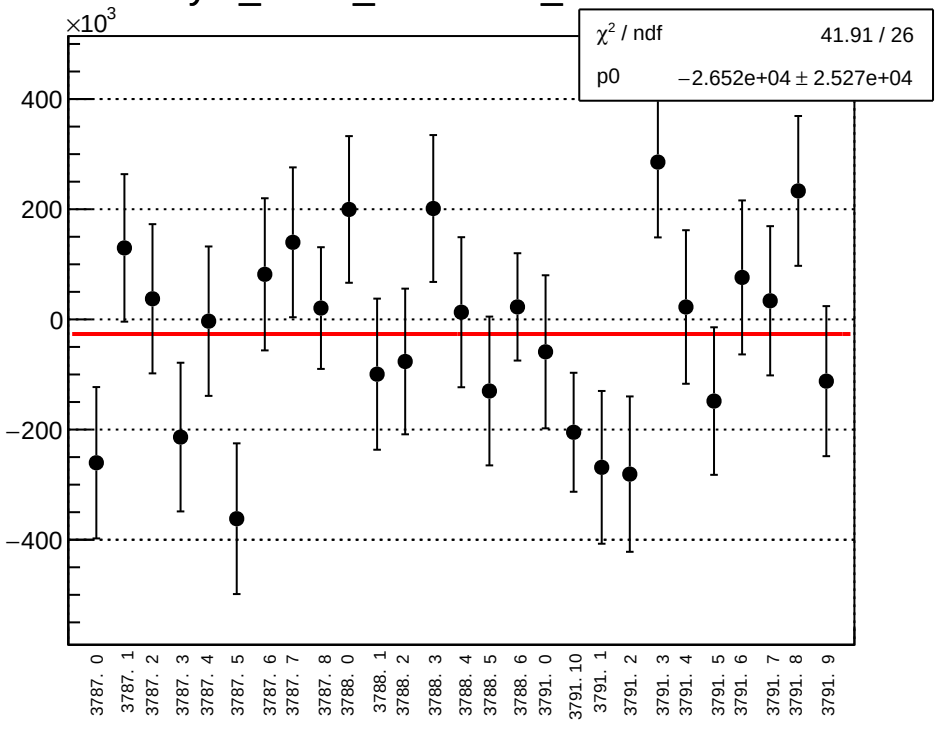

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 37.5 / 26
p0 −1.525e+04 ± 1.731e+04
300
200
100
0
−100
−200
−300
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −132.3
Std Dev 147.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 27
Mean −0.004148
Std Dev 1.179
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

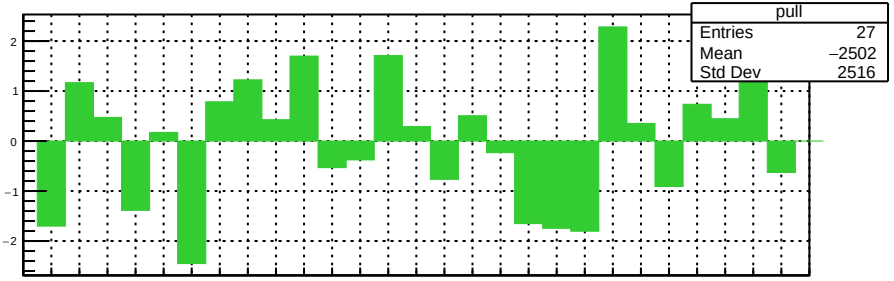

asym_sam2_correction_rms vs run
χ² / ndf 90.71 / 26
p0 8842 ± 12.24
9100
9000
8900
8800
8700
8600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

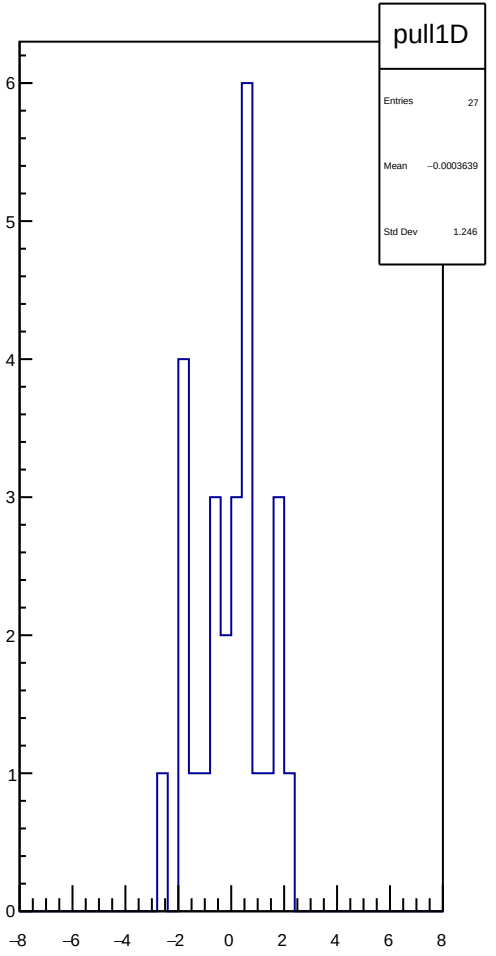

reg_asym_sam3_mean vs run
χ² / ndf 27.2 / 26
p0 −2942 ± 1769
20000
10000
0
−10000
−20000
−30000
−40000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 390.6
Std Dev 382.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

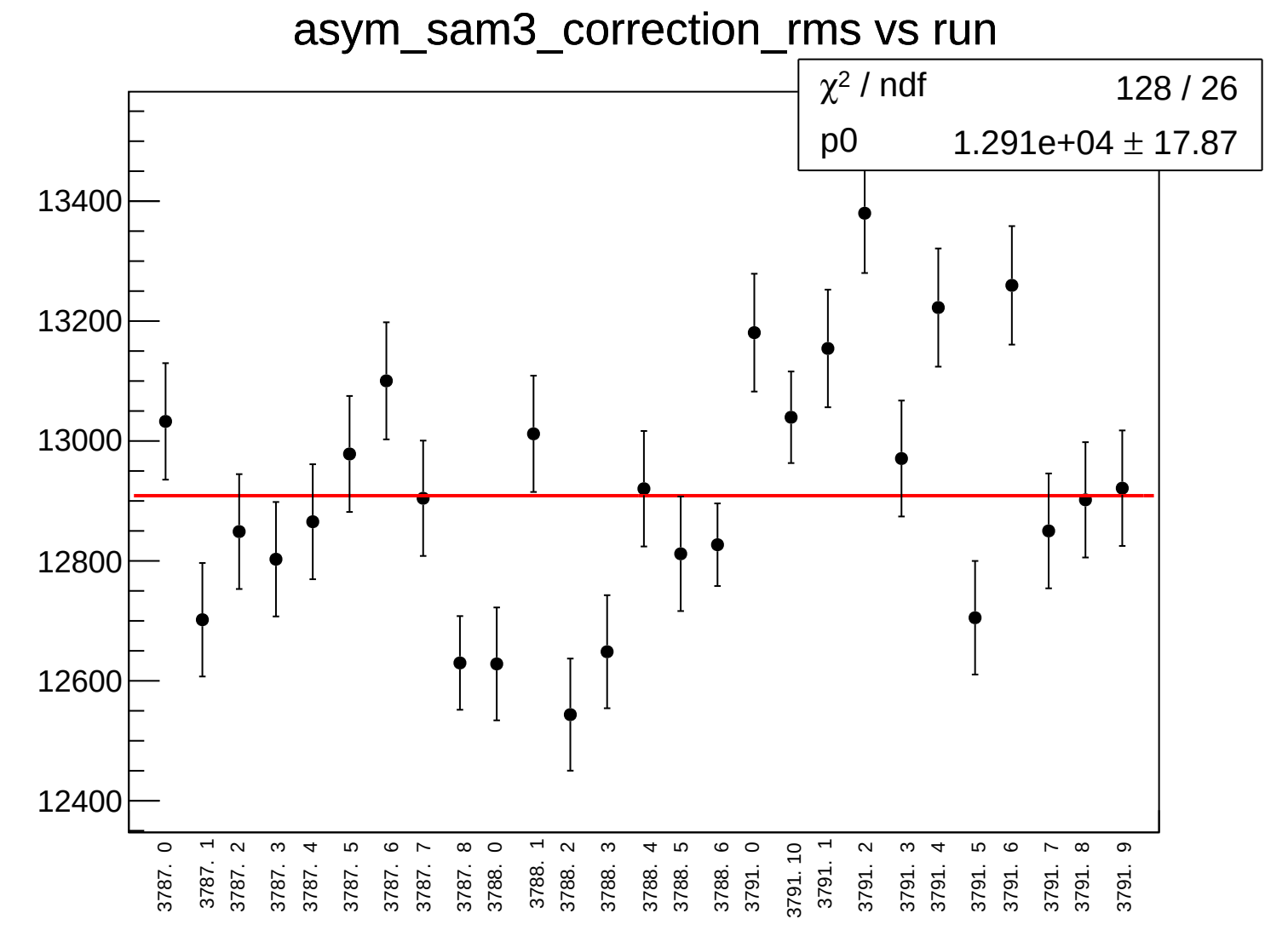

pull1D
Entries 27
Mean −0.002306
Std Dev 1.004
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

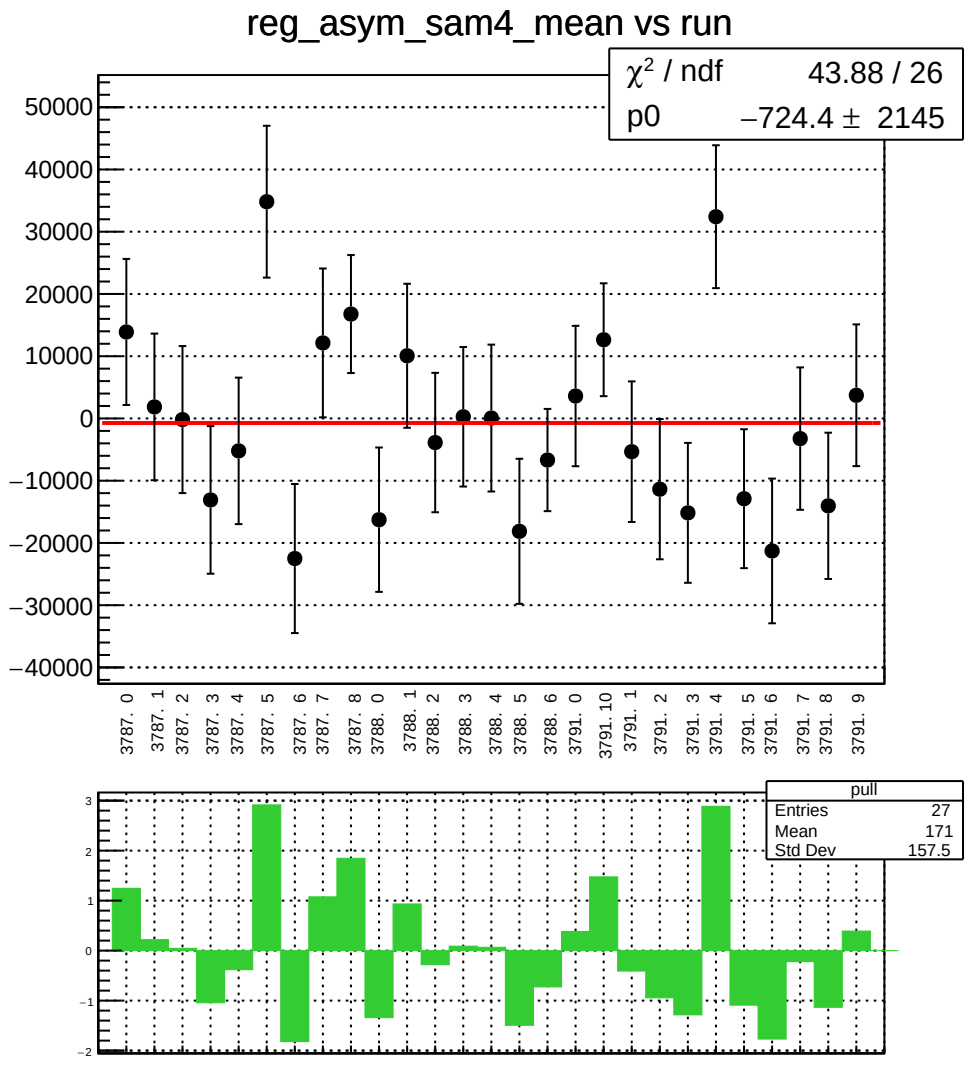

reg_asym_sam3_rms vs run
χ² / ndf 557.8 / 26
p0 903.1 ± 1.251
1000
980
960
940
920
900
880
860
840
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

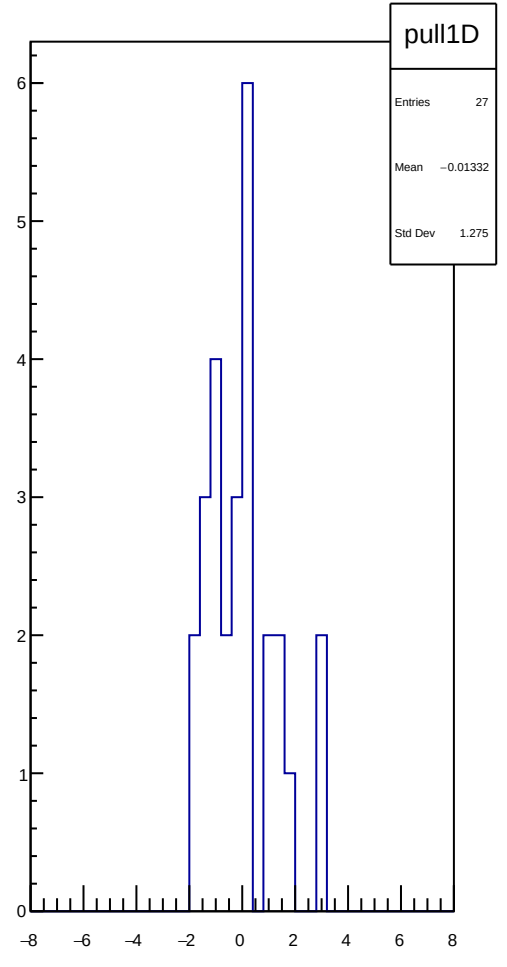

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 41.91 / 26
p0 −2.652e+04 ± 2.527e+04
400
200
0
−200
−400
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

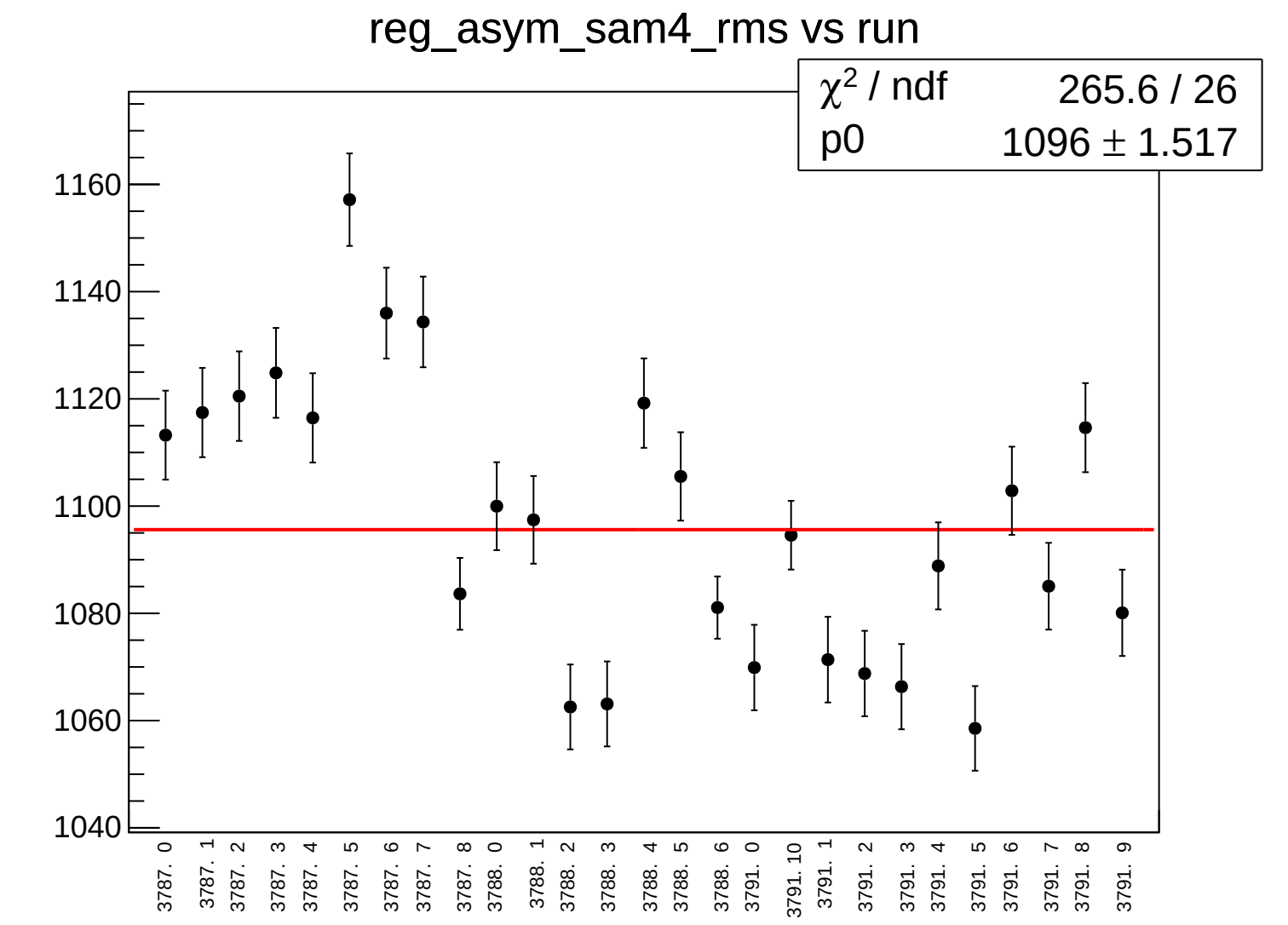

pull
Entries 27
Mean −2502
Std Dev 2516
2
1
0
−1
−2

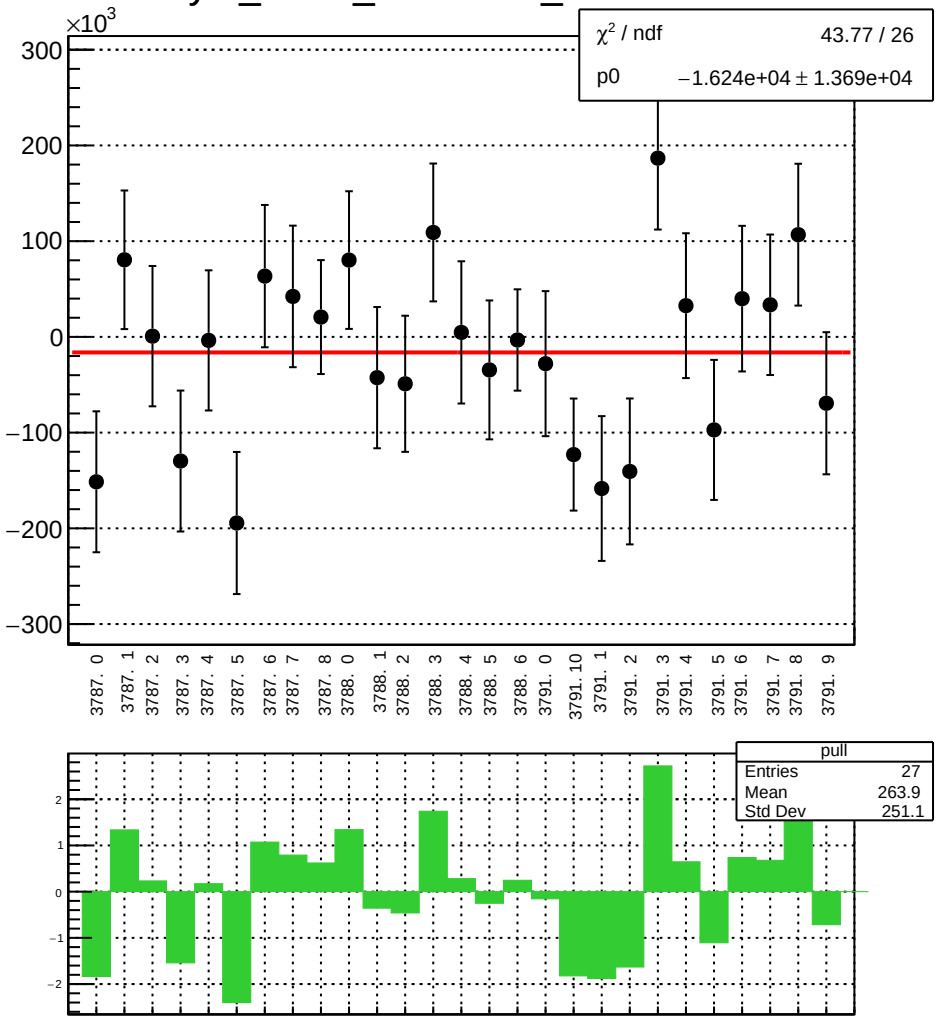

pull1D
Entries 27
Mean −0.0003639
Std Dev 1.246
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

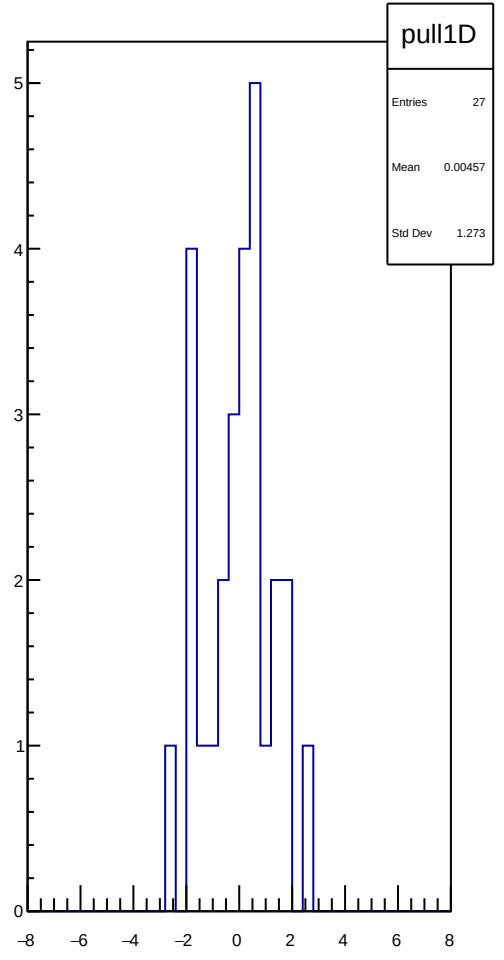

asym_sam3_correction_rms vs run
χ² / ndf 128 / 26
p0 1.291e+04 ± 17.87
13400
13200
13000
12800
12600
12400
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

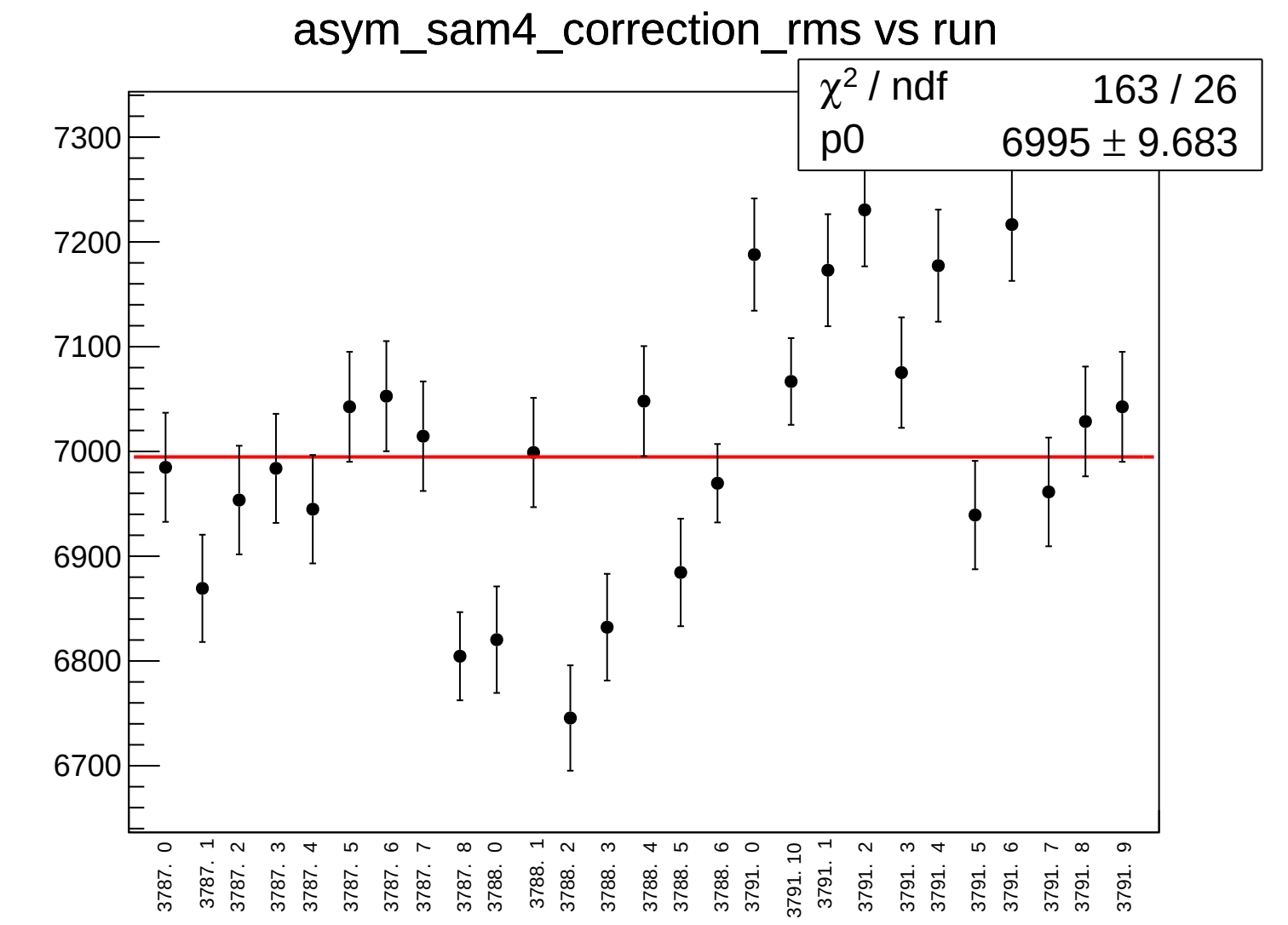

reg_asym_sam4_mean vs run
χ² / ndf 43.88 / 26
p0 −724.4 ± 2145
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 171
Std Dev 157.5
3
2
1
0
−1
−2

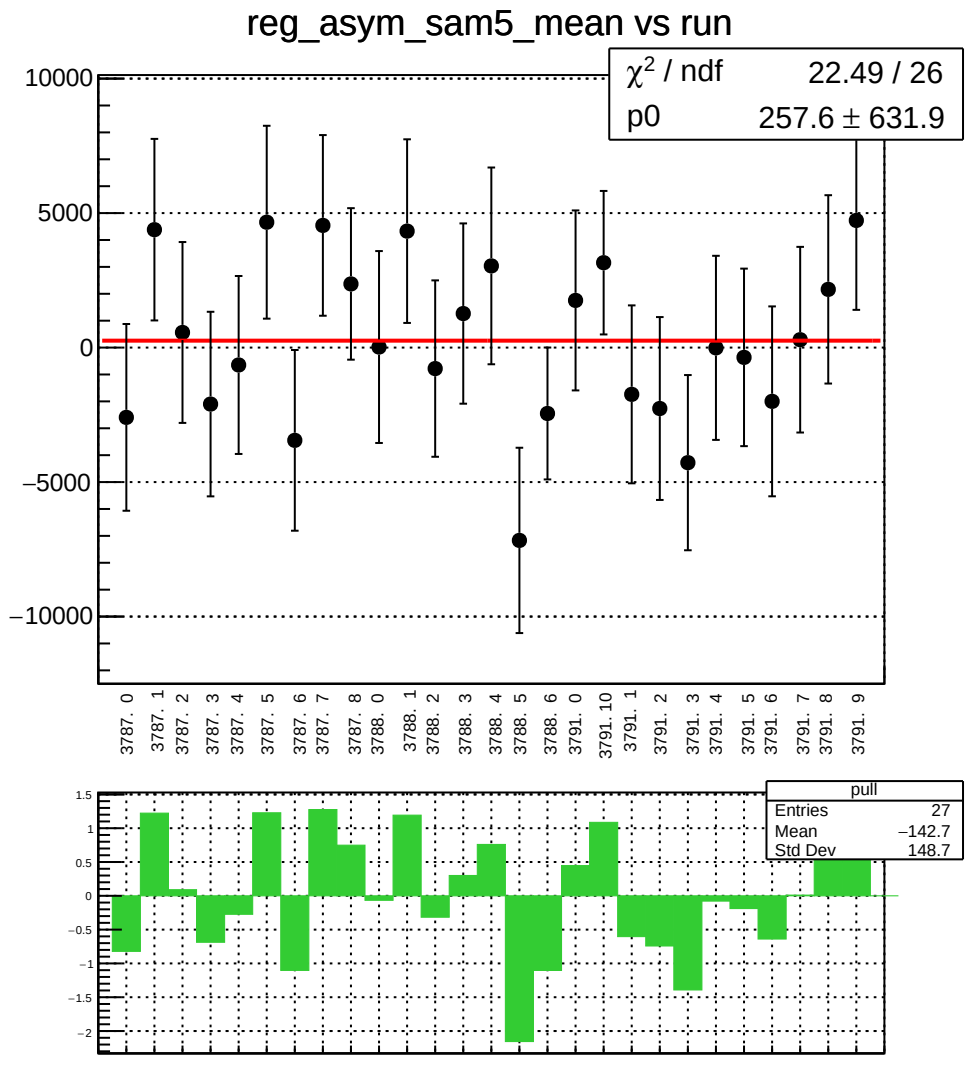

pull1D
Entries 27
Mean −0.01332
Std Dev 1.275
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

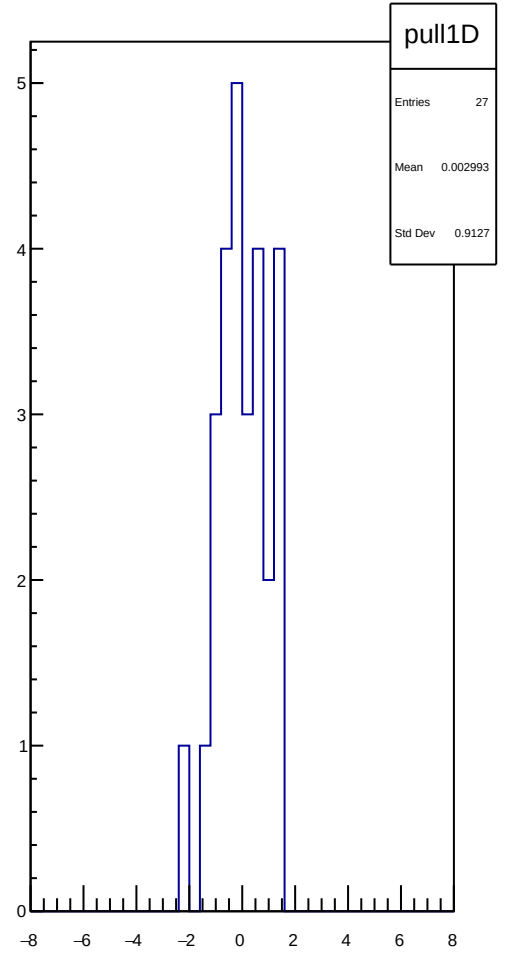

reg_asym_sam4_rms vs run
χ² / ndf 265.6 / 26
p0 1096 ± 1.517
1160
1140
1120
1100
1080
1060
1040
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

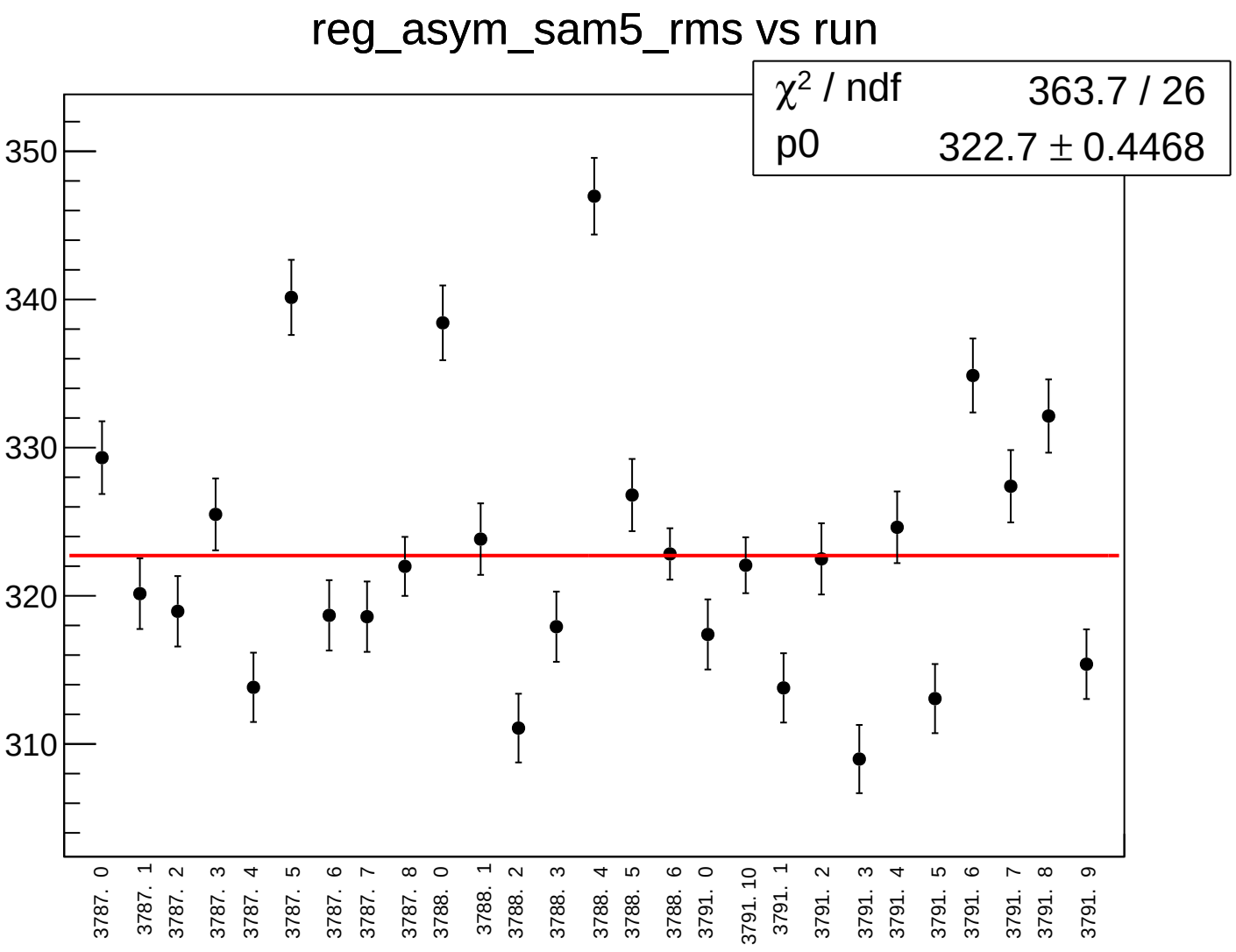

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 43.77 / 26
p0 −1.624e+04 ± 1.369e+04
300
200
100
0
−100
−200
−300
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 263.9
Std Dev 251.1
2
1
0
−1
−2

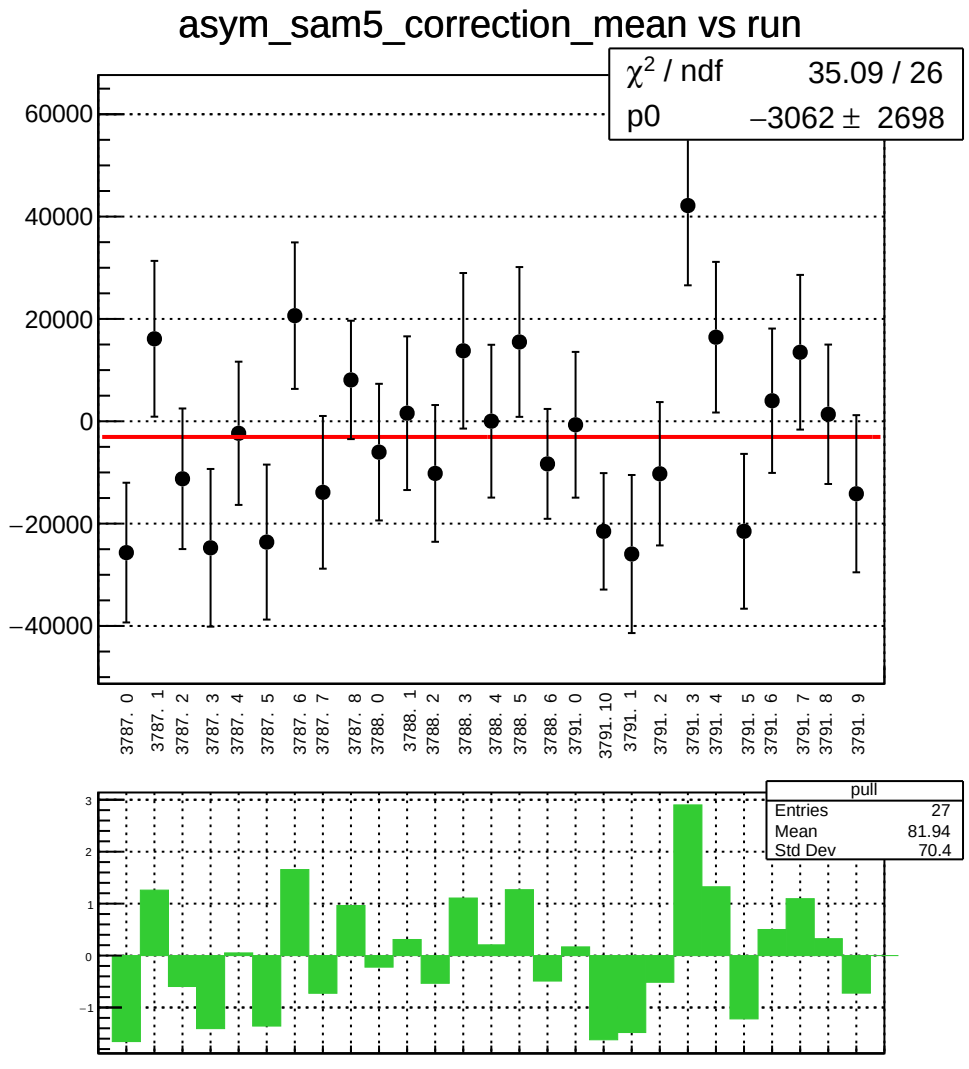

pull1D
Entries 27
Mean 0.00457
Std Dev 1.273
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

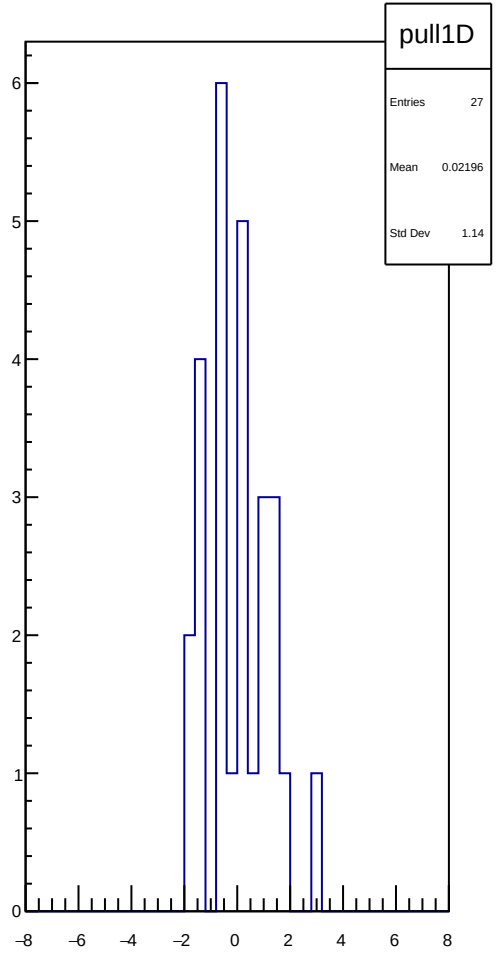

asym_sam4_correction_rms vs run
χ² / ndf 163 / 26
p0 6995 ± 9.683
7300
7200
7100
7000
6900
6800
6700
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

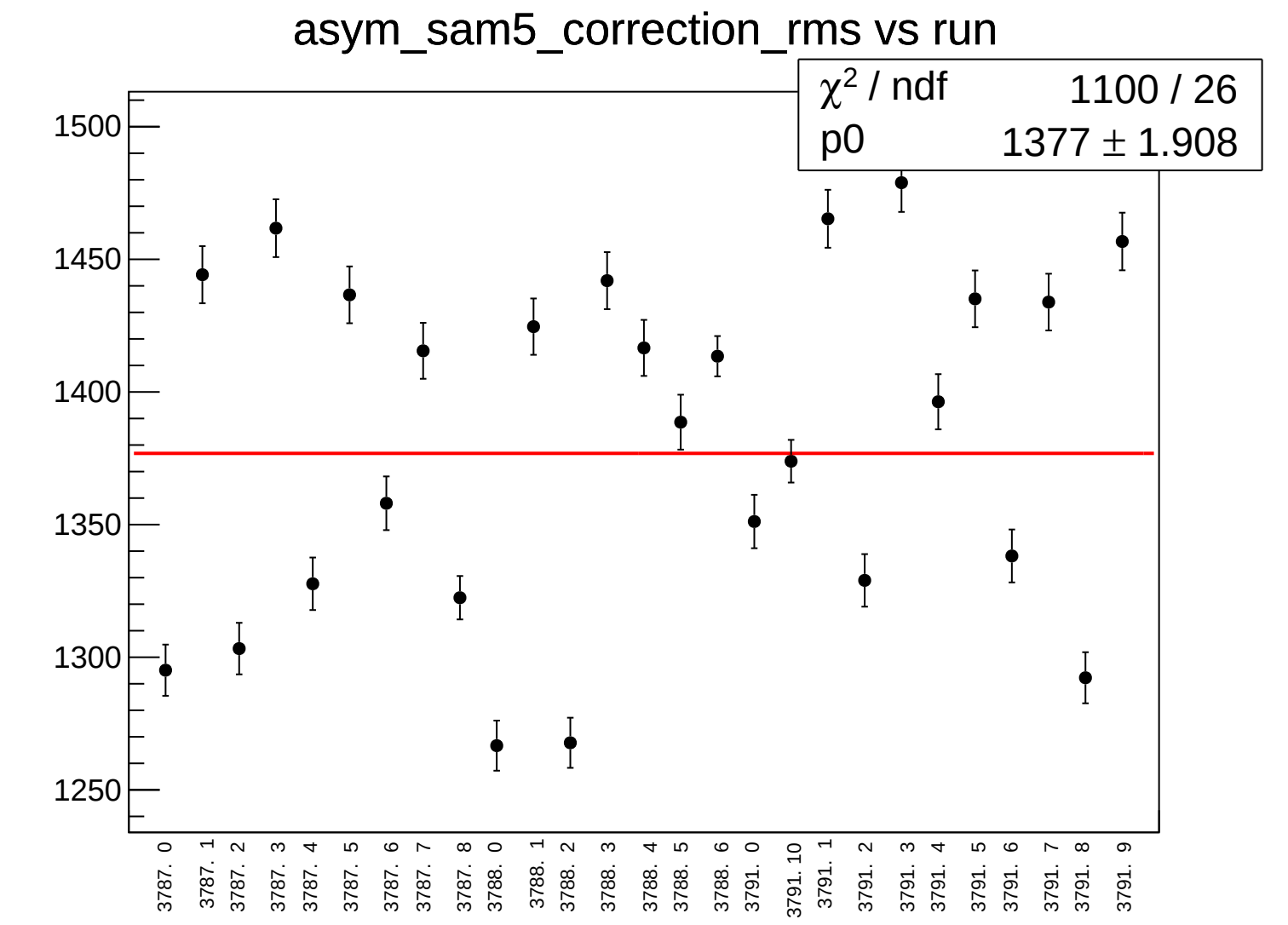

reg_asym_sam5_mean vs run
χ² / ndf 22.49 / 26
p0 257.6 ± 631.9
10000
5000
0
−5000
−10000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −142.7
Std Dev 148.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

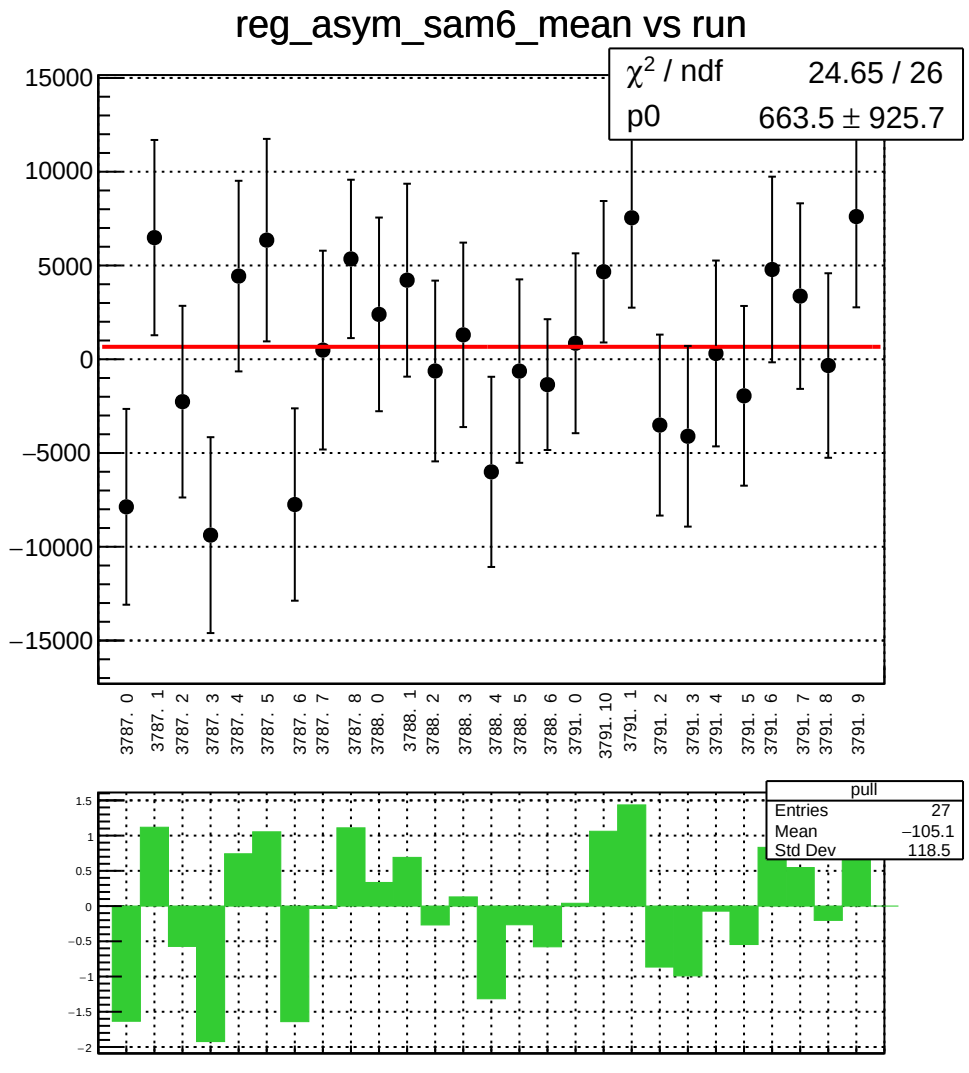

pull1D
Entries 27
Mean 0.002993
Std Dev 0.9127
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

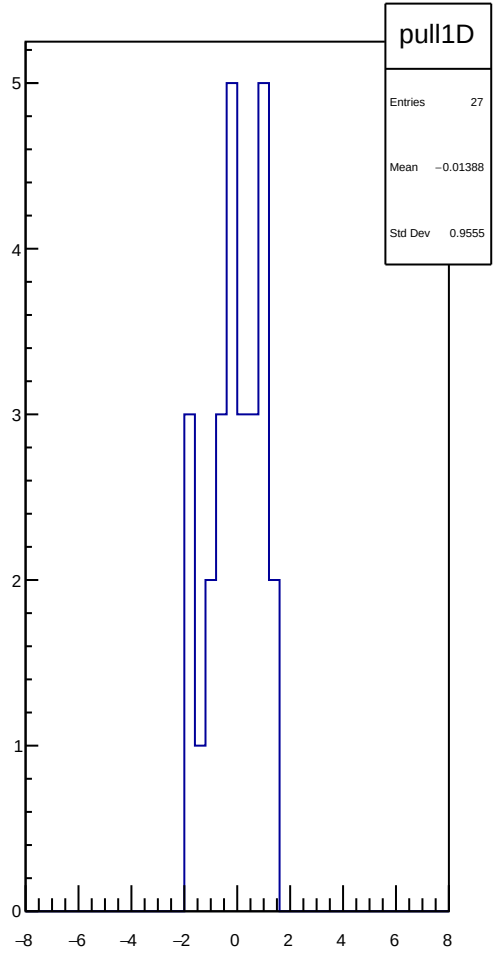

reg_asym_sam5_rms vs run
χ² / ndf 363.7 / 26
p0 322.7 ± 0.4468
350
340
330
320
310
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

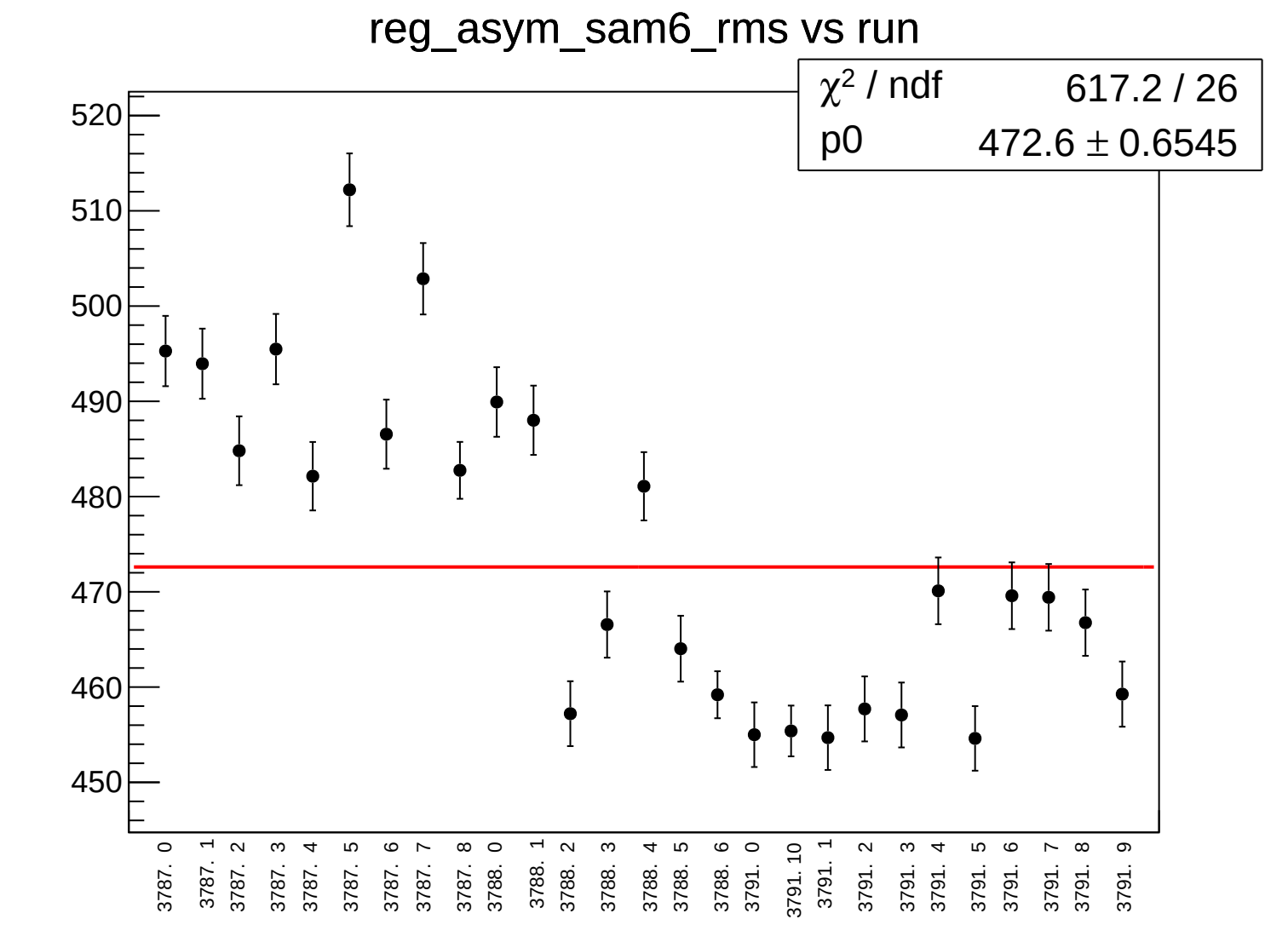

asym_sam5_correction_mean vs run
χ² / ndf 35.09 / 26
p0 −3062 ± 2698
60000
40000
20000
0
−20000
−40000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 81.94
Std Dev 70.4
3
2
1
0
−1

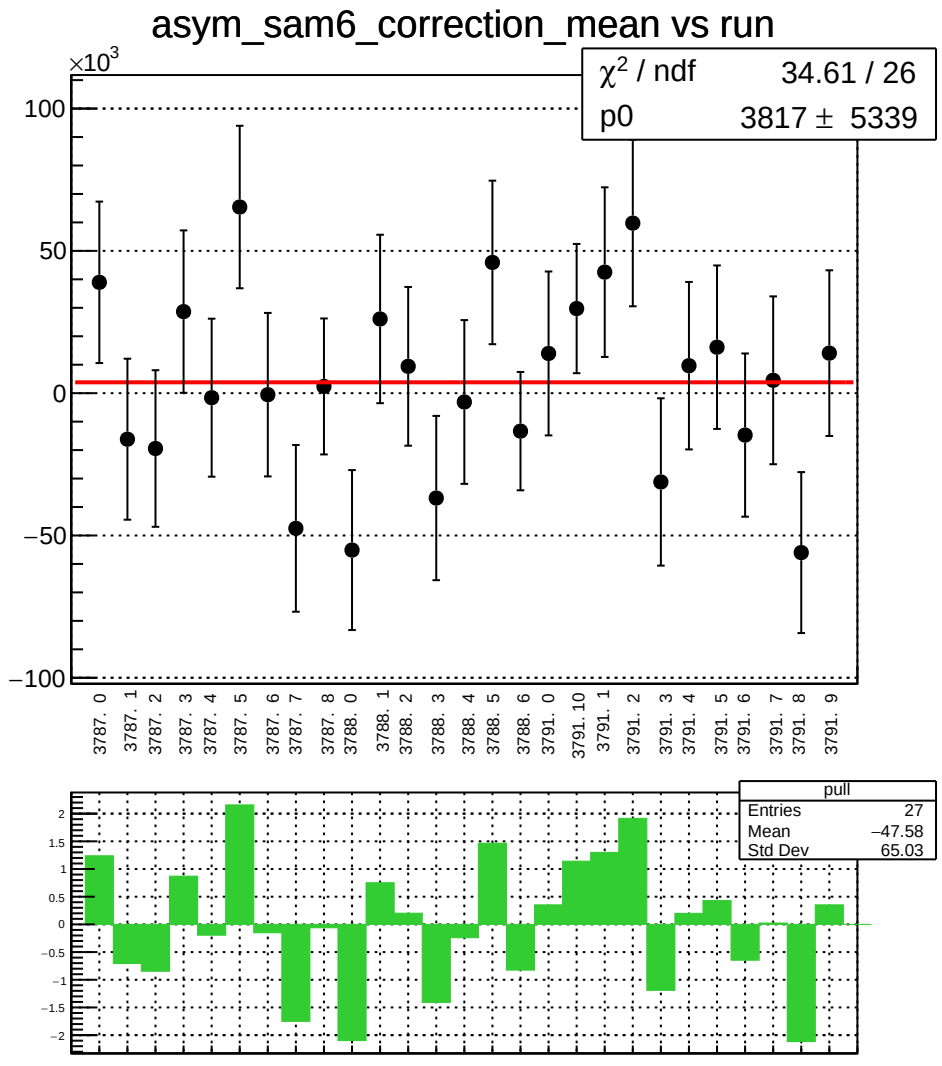

pull1D
Entries 27
Mean 0.02196
Std Dev 1.14
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

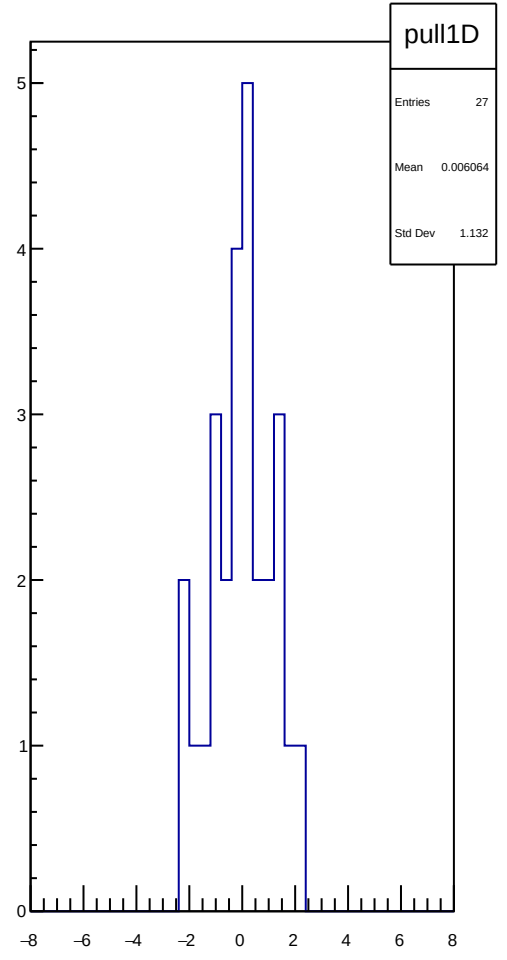

asym_sam5_correction_rms vs run
χ² / ndf 1100 / 26
p0 1377 ± 1.908
1500
1450
1400
1350
1300
1250
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

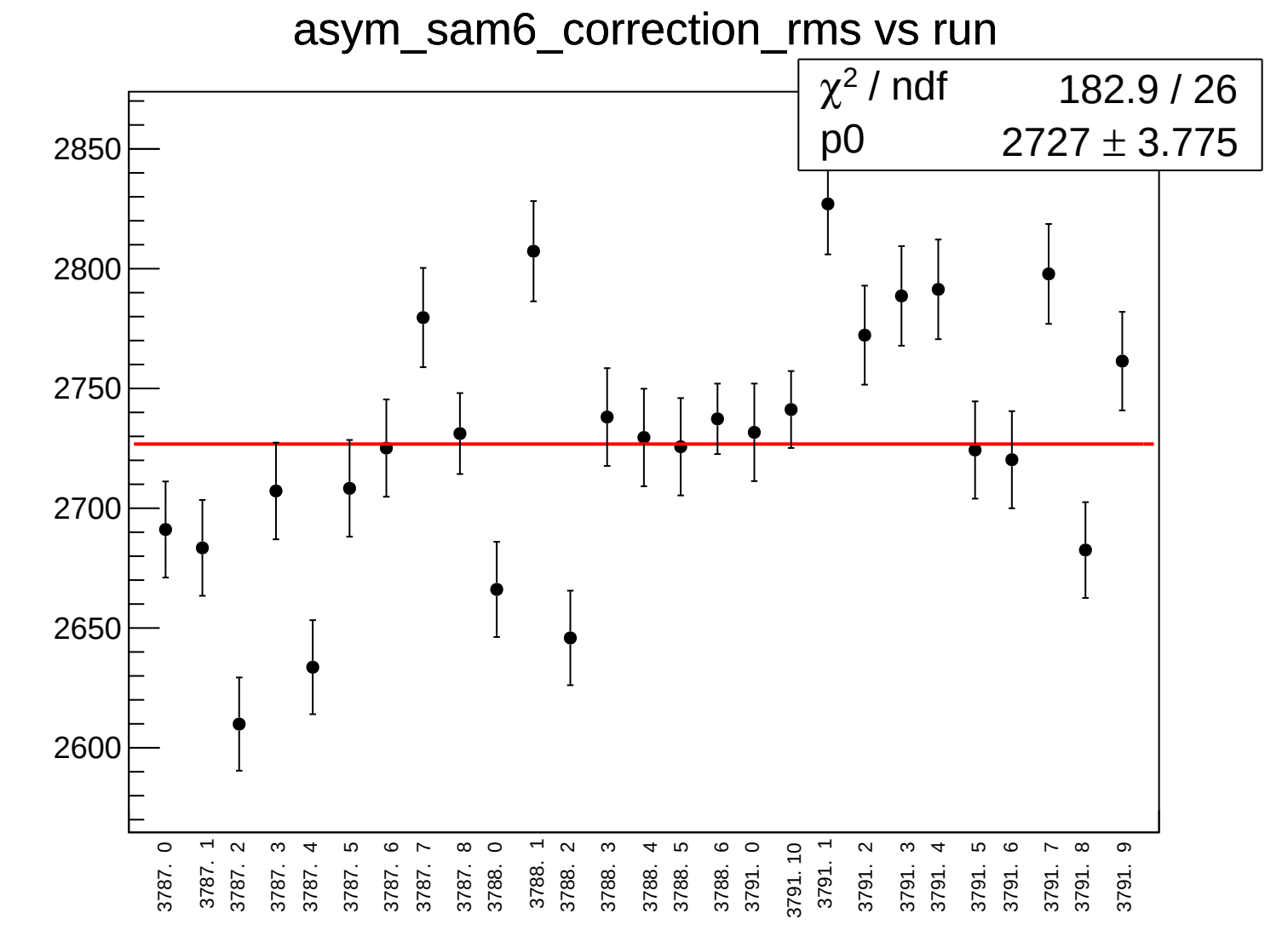

reg_asym_sam6_mean vs run
χ² / ndf 24.65 / 26
p0 663.5 ± 925.7
15000
10000
5000
0
−5000
−10000
−15000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −105.1
Std Dev 118.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

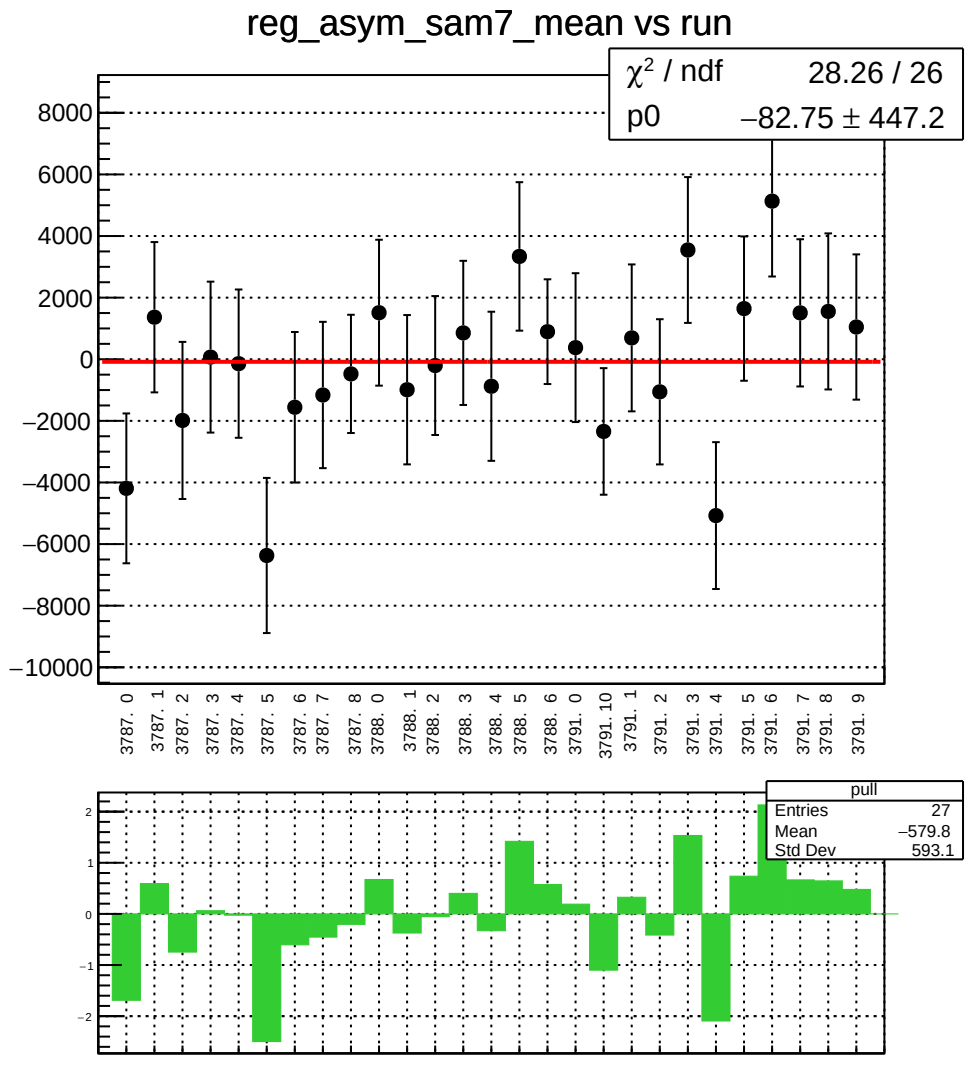

pull1D
Entries 27
Mean −0.01388
Std Dev 0.9555
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

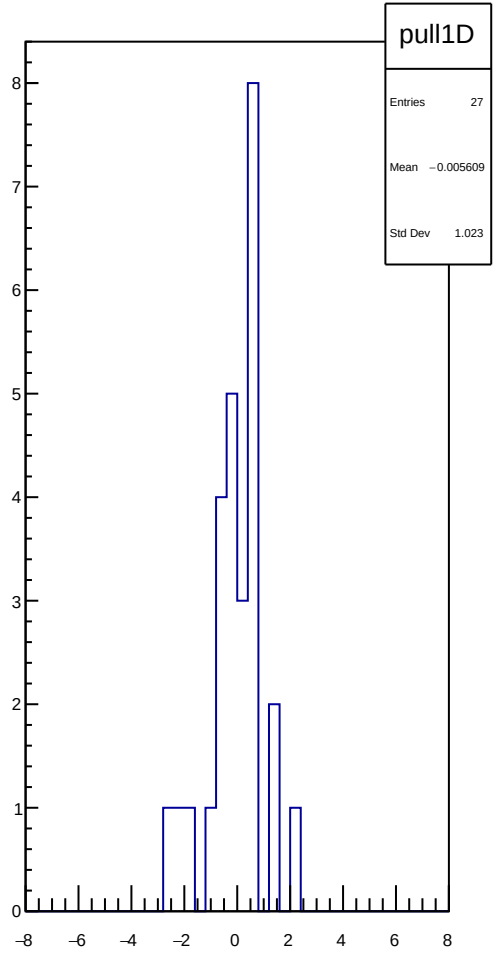

reg_asym_sam6_rms vs run
χ^2 / ndf 617.2 / 26
p0 472.6 ± 0.6545
520
510
500
490
480
470
460
450
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

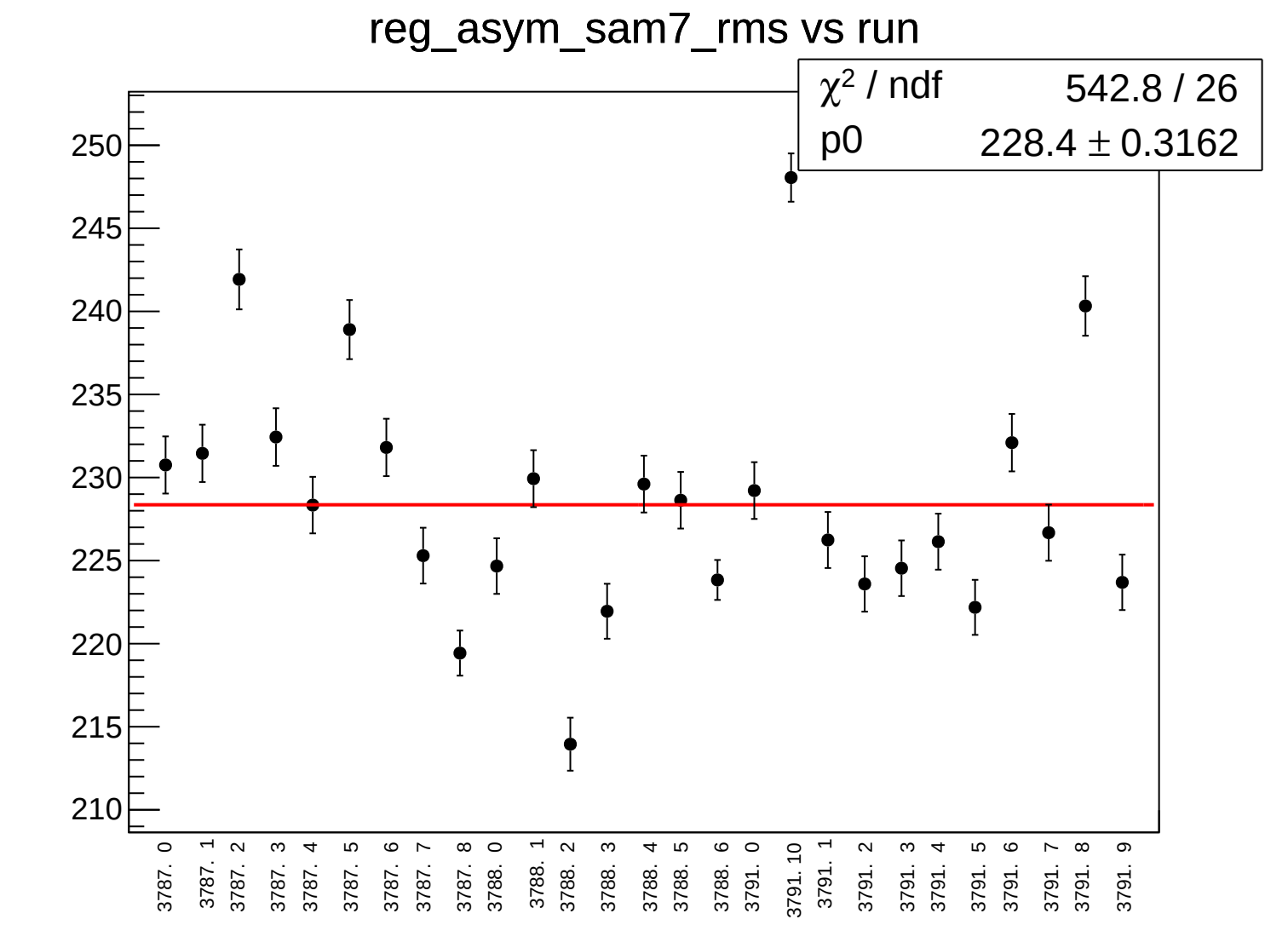

asym_sam6_correction_mean vs run
×10^3
χ^2 / ndf 34.61 / 26
p0 3817 ± 5339
100
50
0
−50
−100
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −47.58
Std Dev 65.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

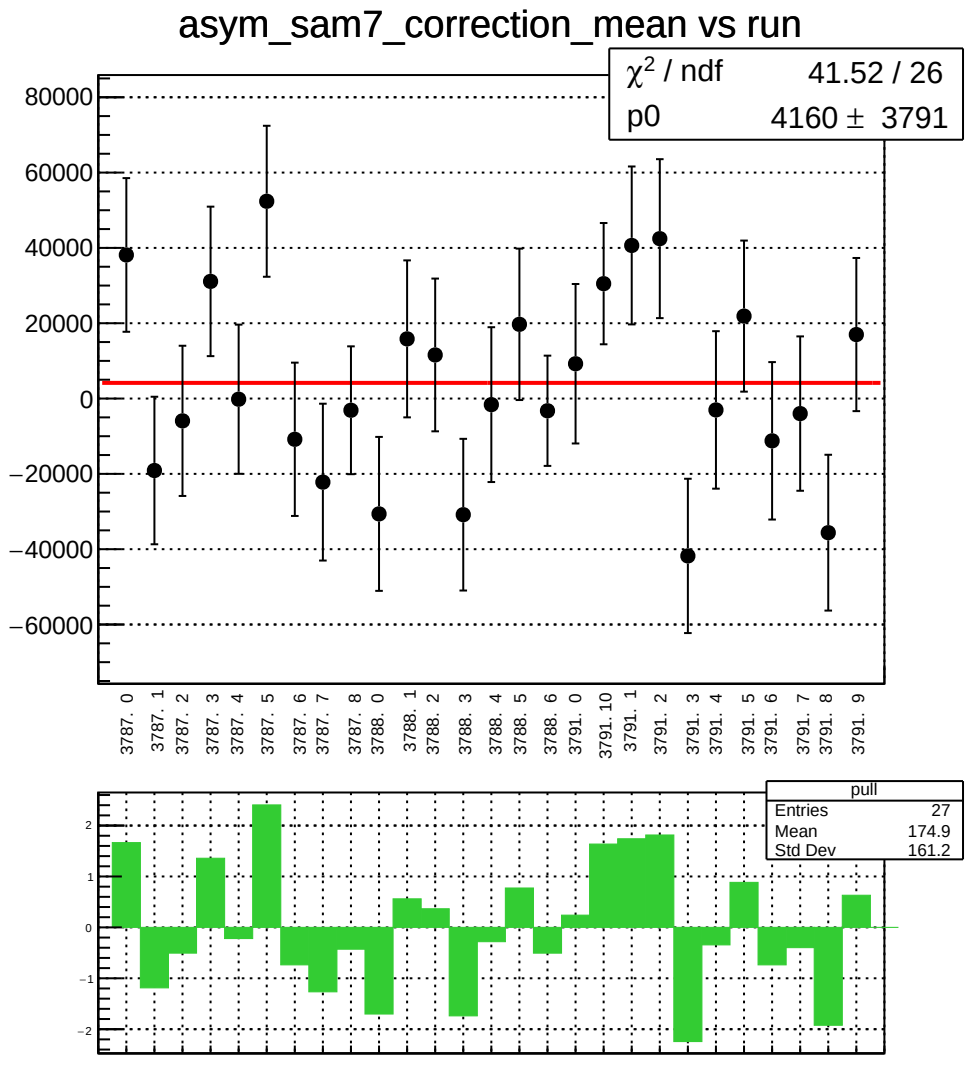

pull1D
Entries 27
Mean 0.006064
Std Dev 1.132
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

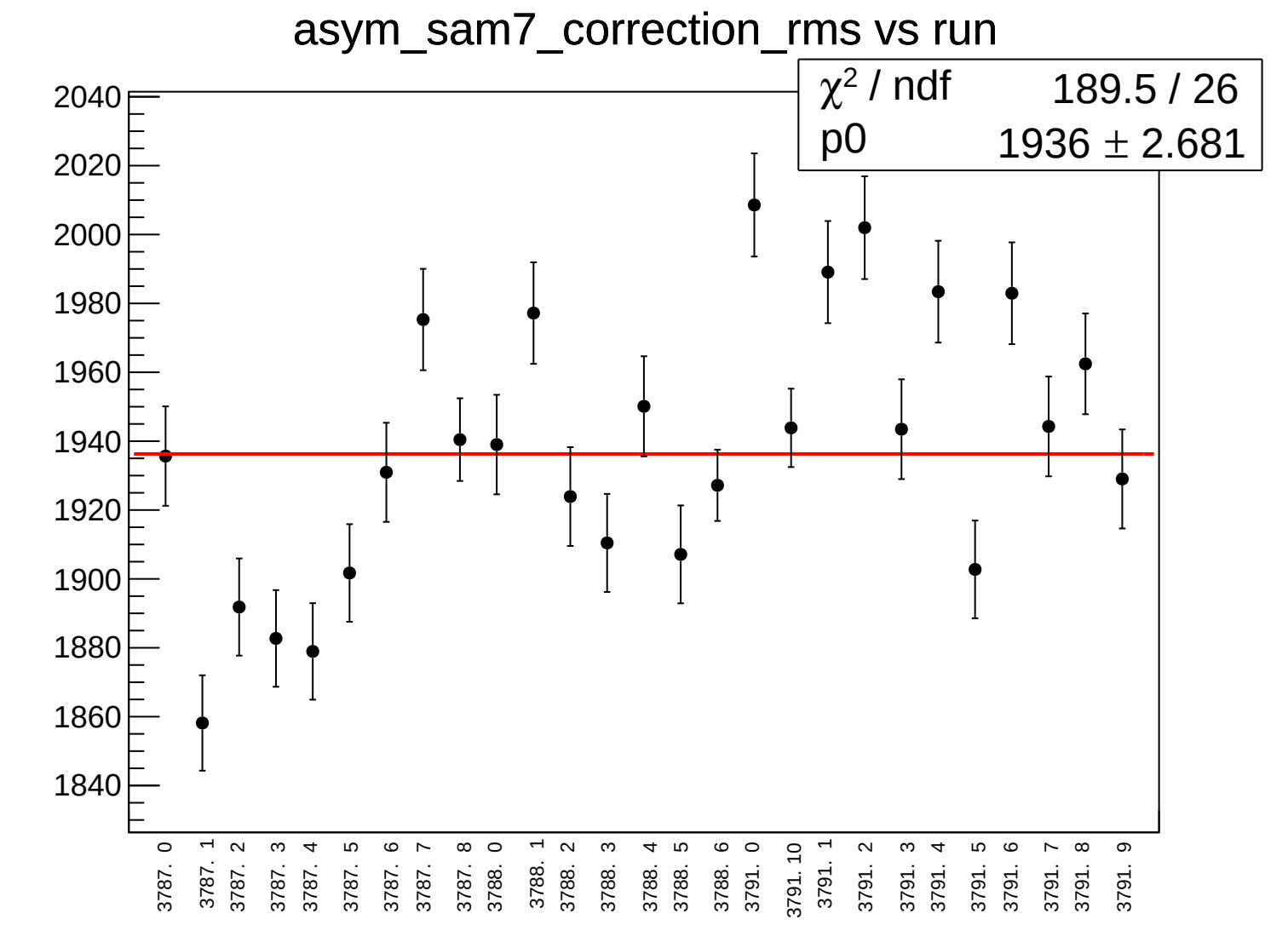

asym_sam6_correction_rms vs run
χ² / ndf 182.9 / 26
p0 2727 ± 3.775
2850
2800
2750
2700
2650
2600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

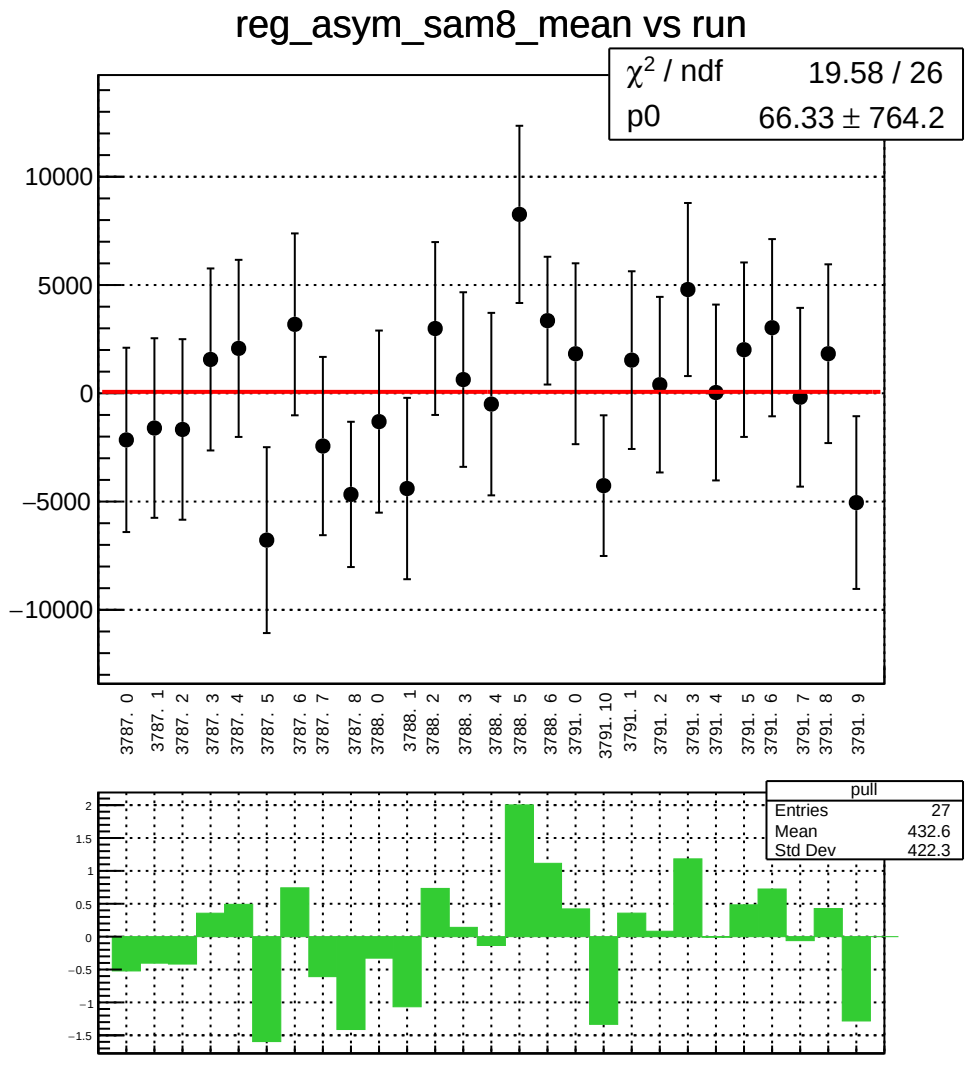

reg_asym_sam7_mean vs run
χ² / ndf 28.26 / 26
p0 −82.75 ± 447.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −579.8
Std Dev 593.1
2
1
0
−1
−2

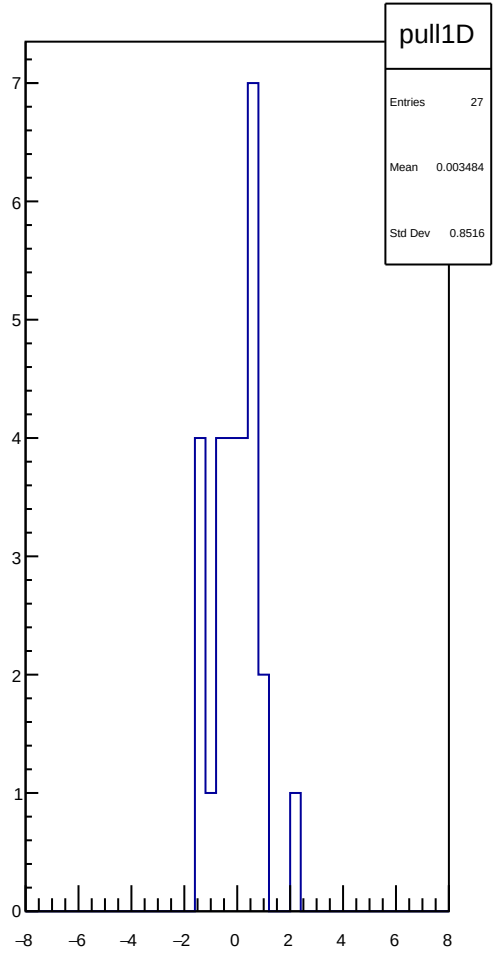

pull1D
Entries 27
Mean −0.005609
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

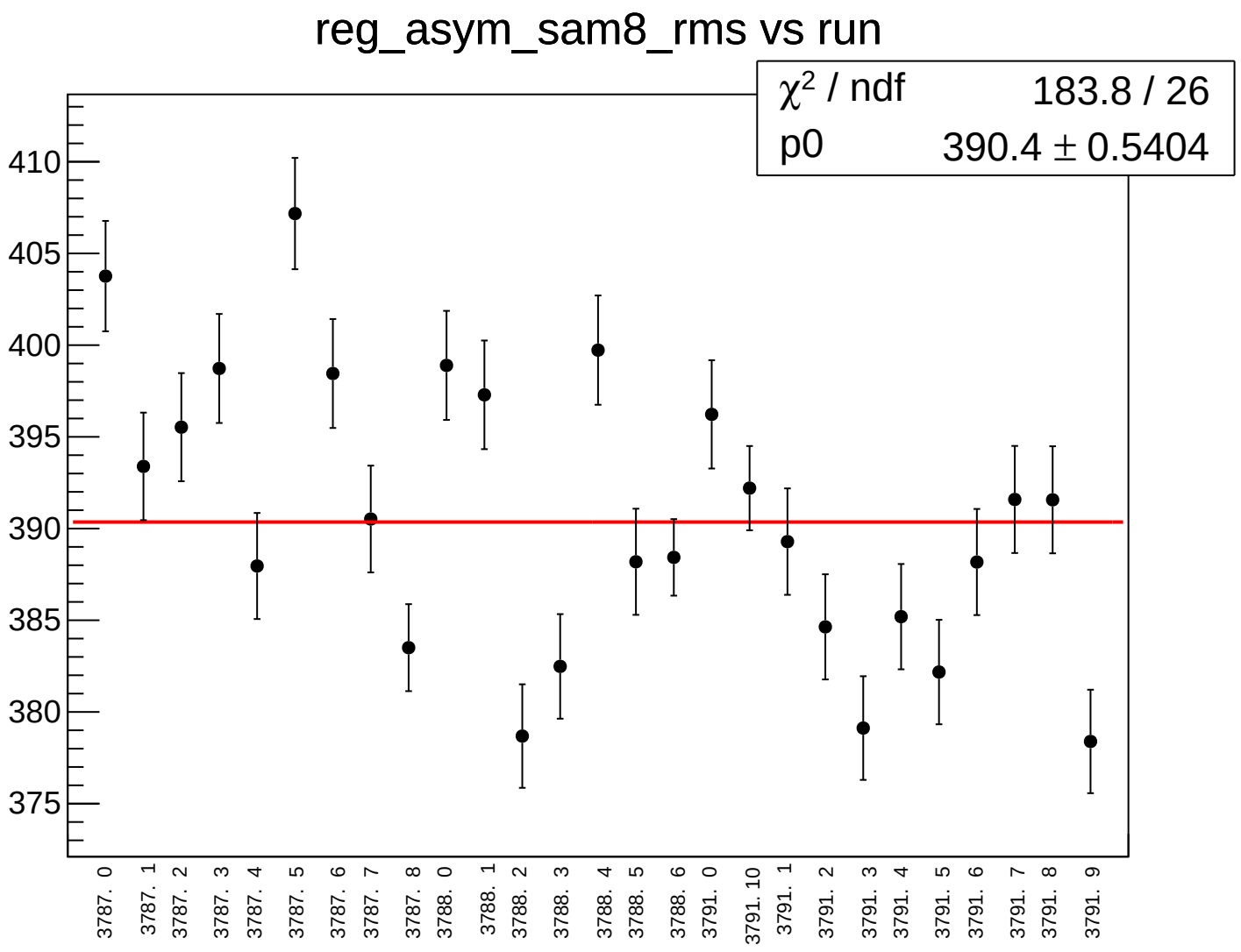

reg_asym_sam7_rms vs run
χ² / ndf 542.8 / 26
p0 228.4 ± 0.3162
250
245
240
235
230
225
220
215
210
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

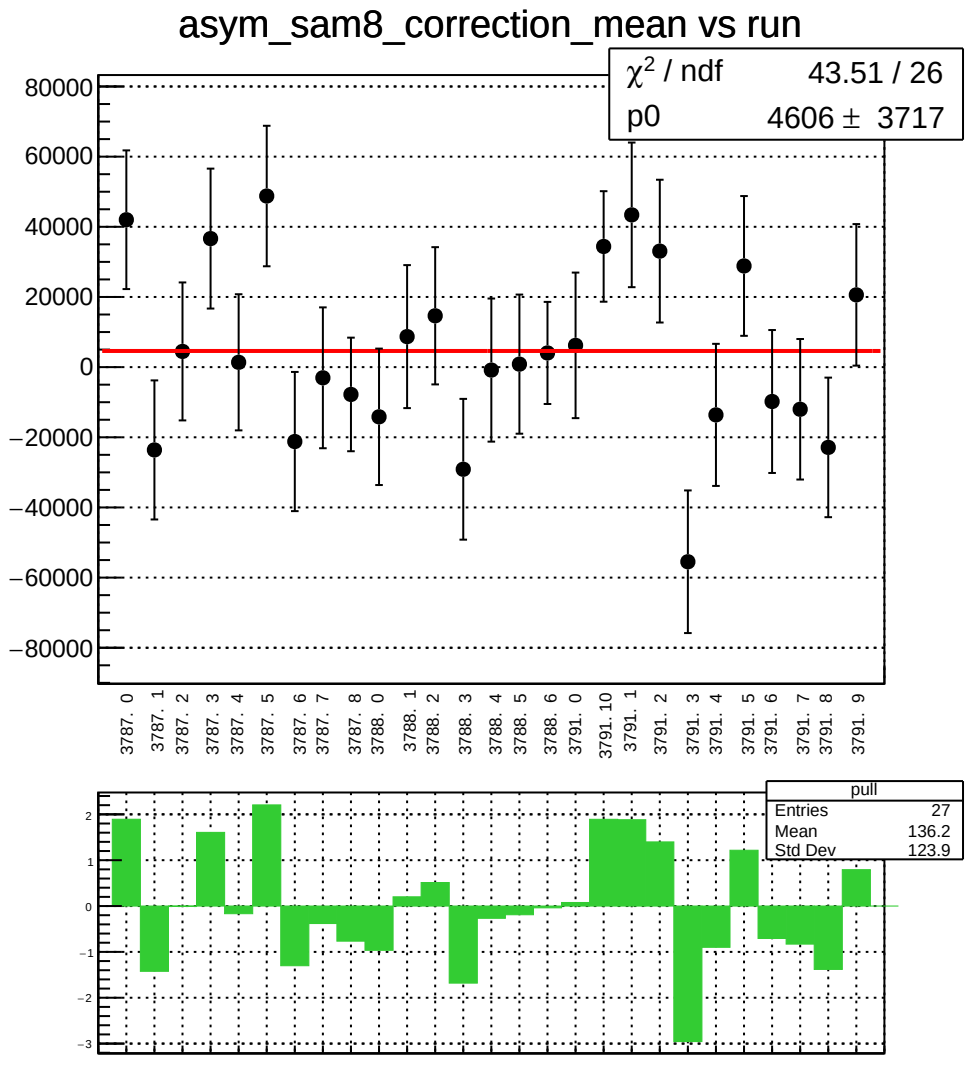

asym_sam7_correction_mean vs run
χ² / ndf 41.52 / 26
p0 4160 ± 3791
80000
60000
40000
20000
0
−20000
−40000
−60000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 174.9
Std Dev 161.2
2
1
0
−1
−2
pull1D
Entries 27
Mean −0.00508
Std Dev 1.24
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

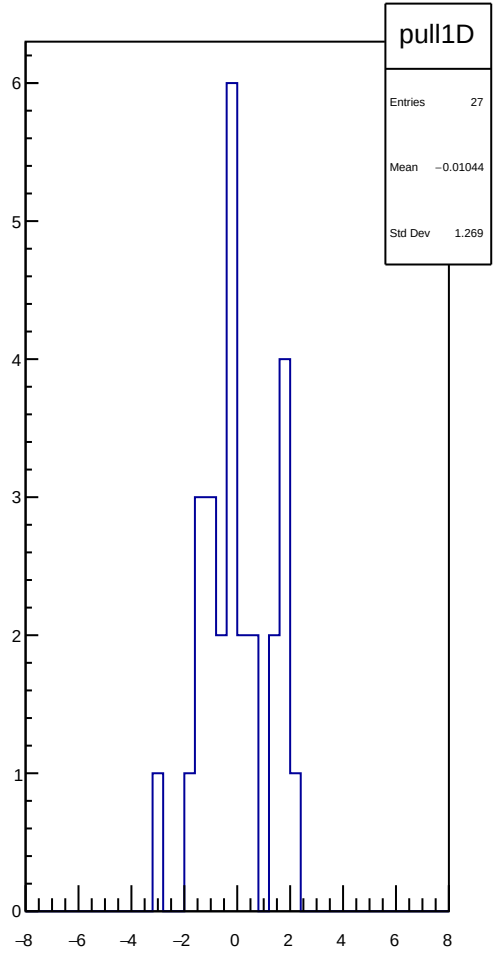

asym_sam7_correction_rms vs run
χ² / ndf 189.5 / 26
p0 1936 ± 2.681
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

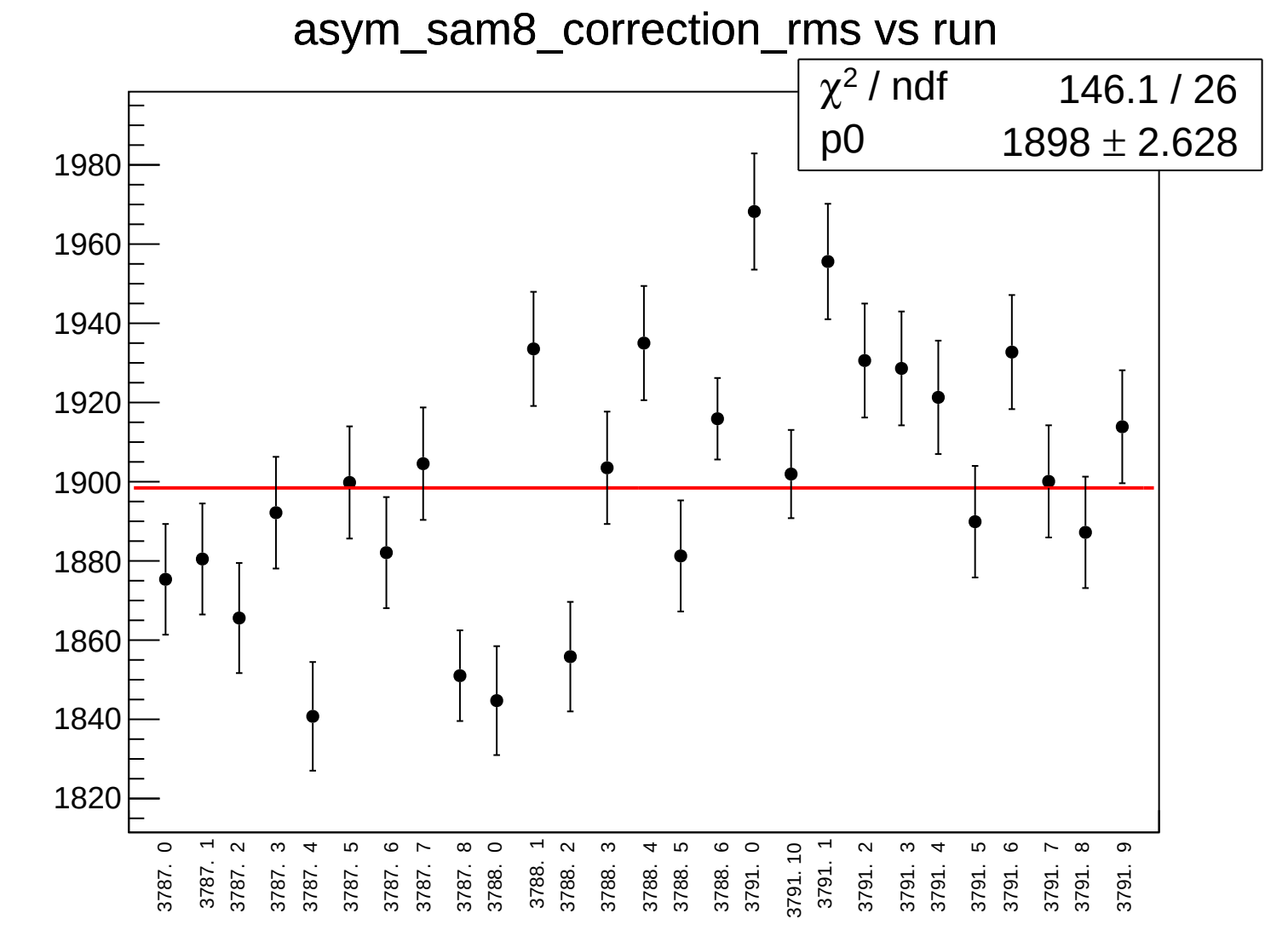

reg_asym_sam8_mean vs run
χ² / ndf 19.58 / 26
p0 66.33 ± 764.2
10000
5000
0
−5000
−10000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 432.6
Std Dev 422.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

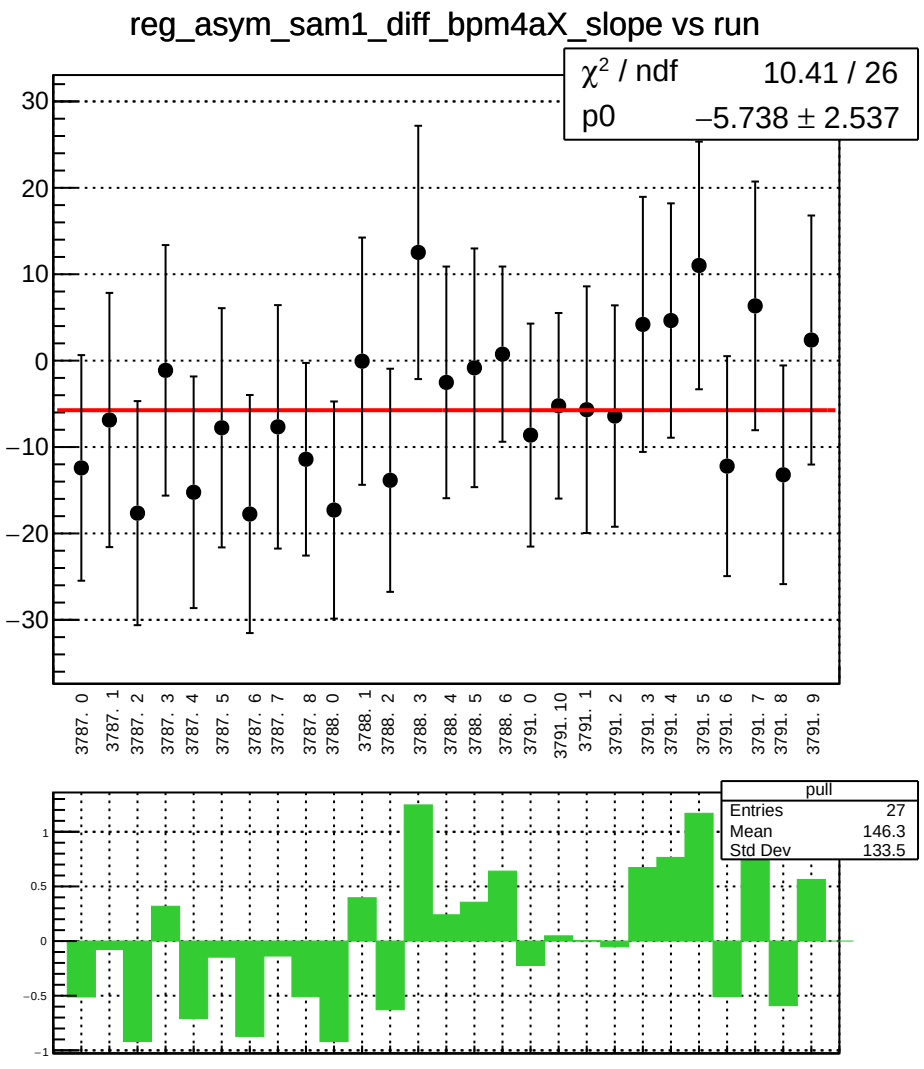

pull1D
Entries 27
Mean 0.003484
Std Dev 0.8516
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

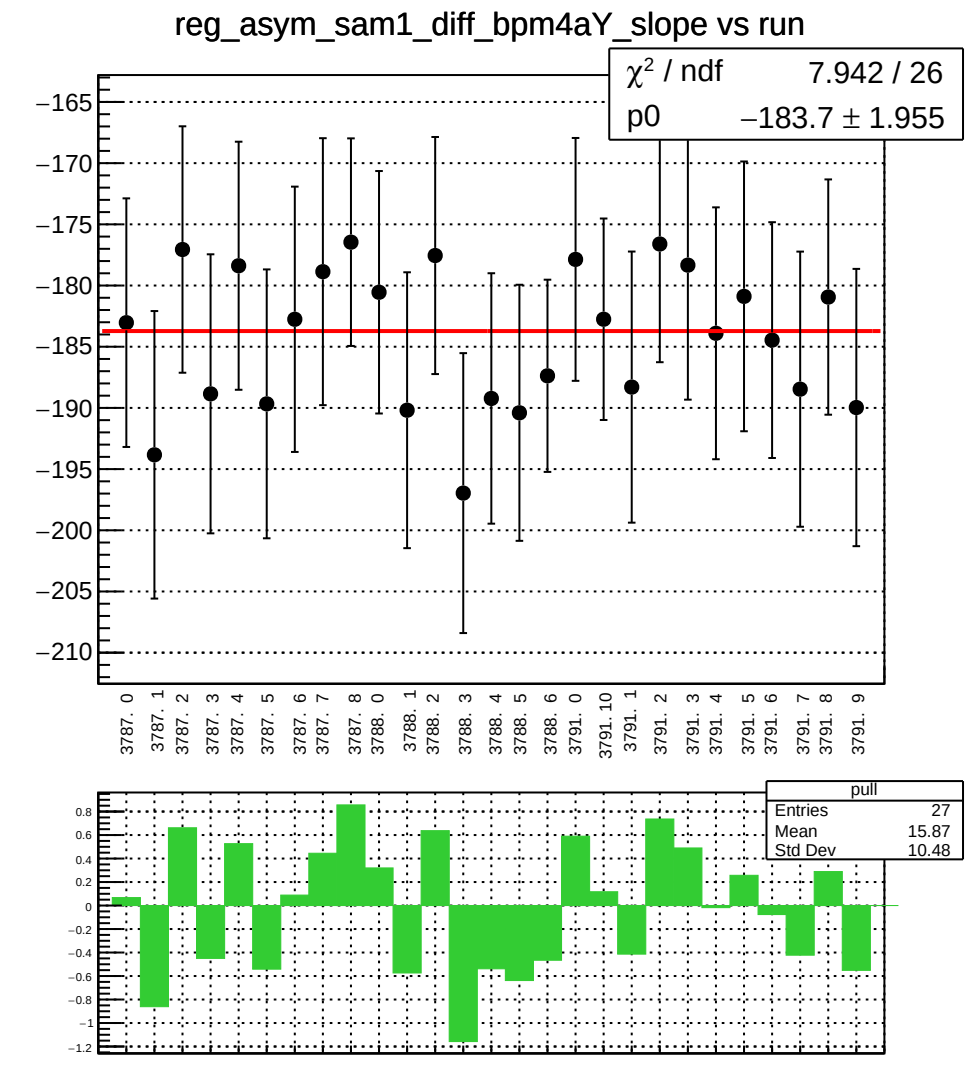

reg_asym_sam8_rms vs run
χ² / ndf 183.8 / 26
p0 390.4 ± 0.5404
410
405
400
395
390
385
380
375
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

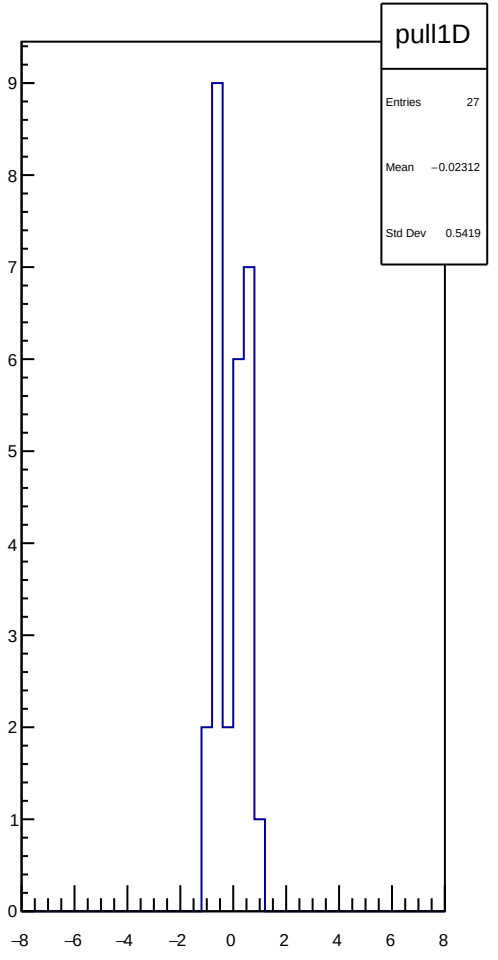

asym_sam8_correction_mean vs run
χ² / ndf 43.51 / 26
p0 4606 ± 3717
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 136.2
Std Dev 123.9
2
1
0
−1
−2
−3

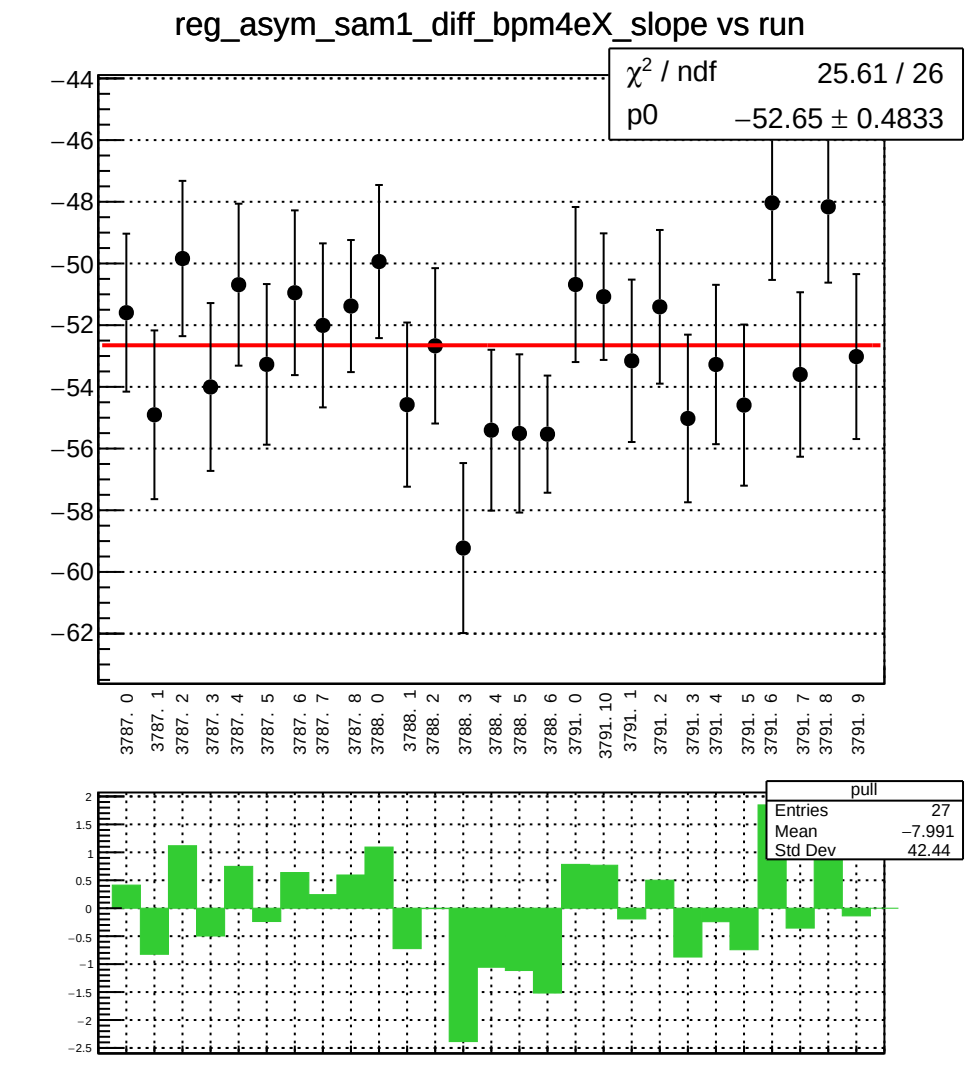

pull1D
Entries 27
Mean −0.01044
Std Dev 1.269
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

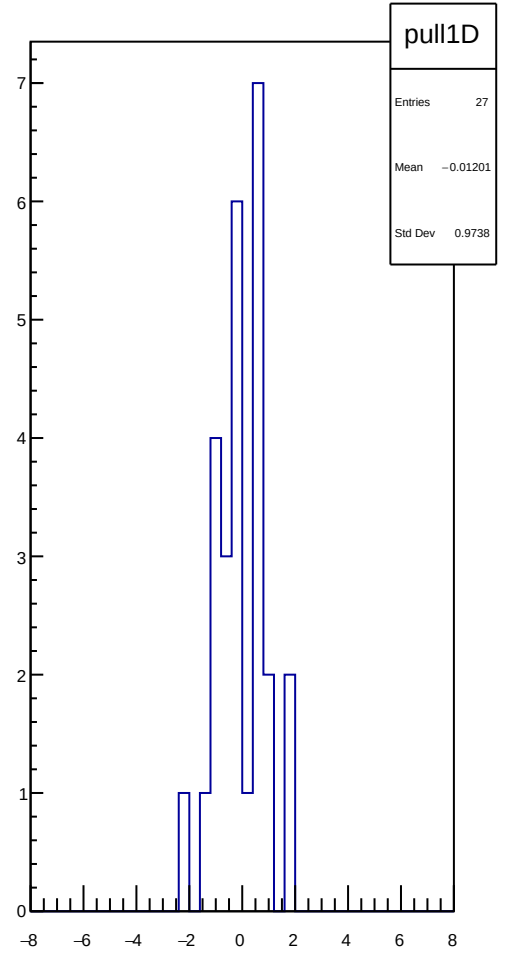

asym_sam8_correction_rms vs run
χ² / ndf 146.1 / 26
p0 1898 ± 2.628
1980
1960
1940
1920
1900
1880
1860
1840
1820
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

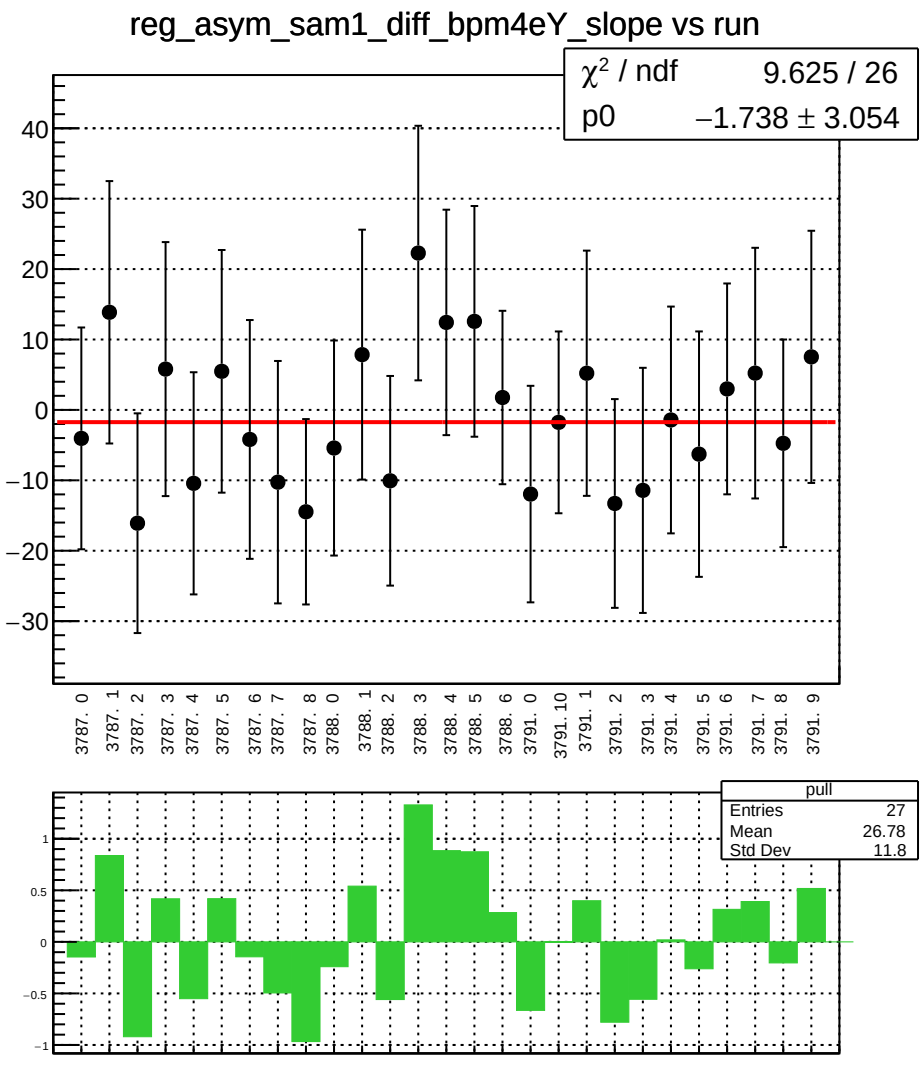

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 10.41 / 26
p0 −5.738 ± 2.537
30
20
10
0
−10
−20
−30
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 146.3
Std Dev 133.5
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean 0.0169
Std Dev 0.6206
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

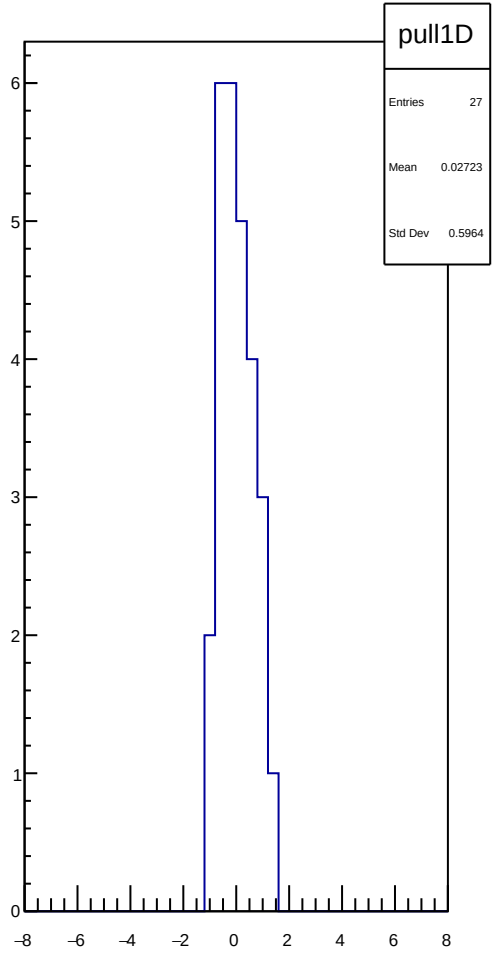

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 7.942 / 26
p0 −183.7 ± 1.955
−165
−170
−175
−180
−185
−190
−195
−200
−205
−210
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 15.87
Std Dev 10.48
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

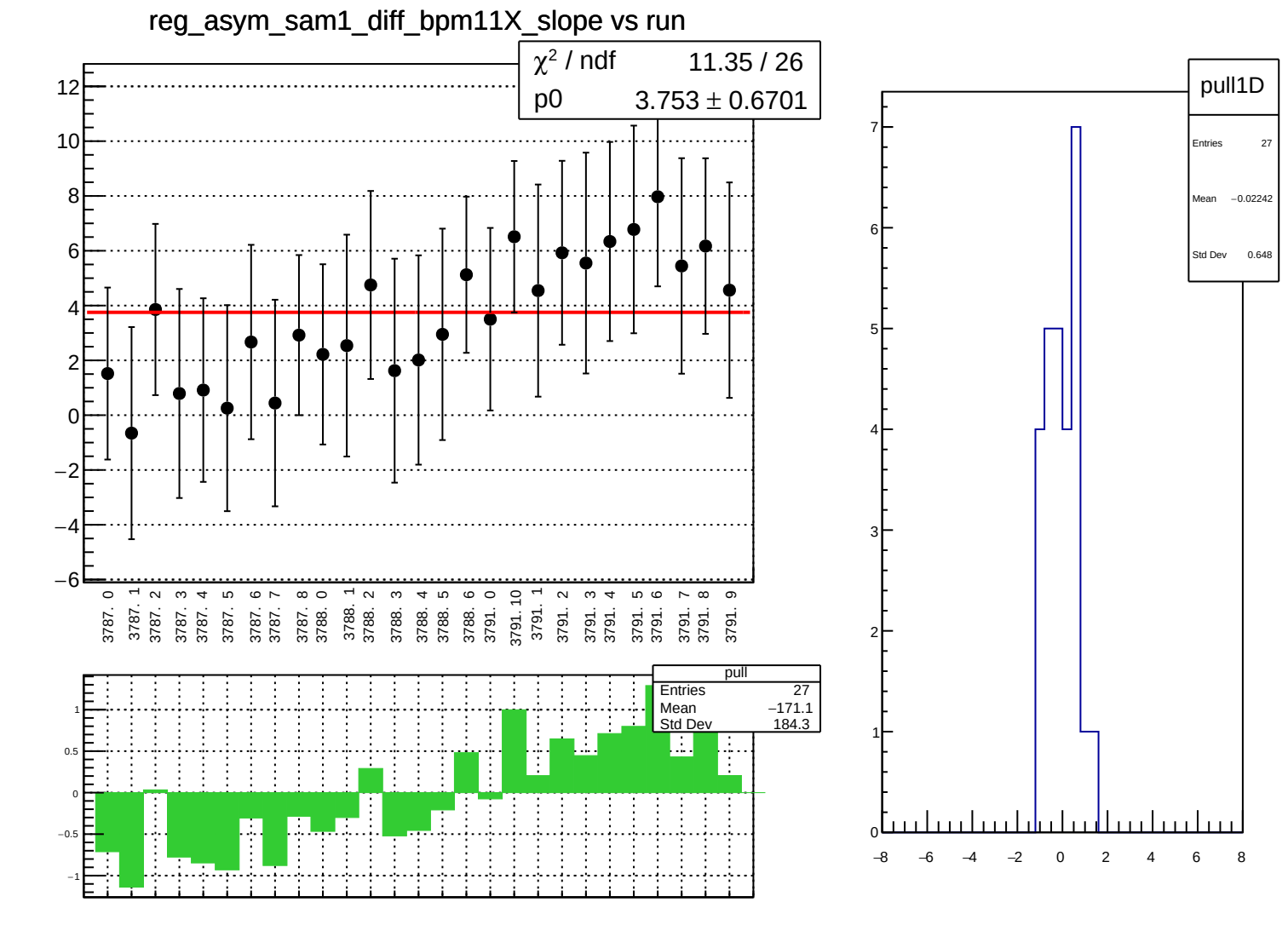

pull1D
Entries 27
Mean −0.02312
Std Dev 0.5419
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

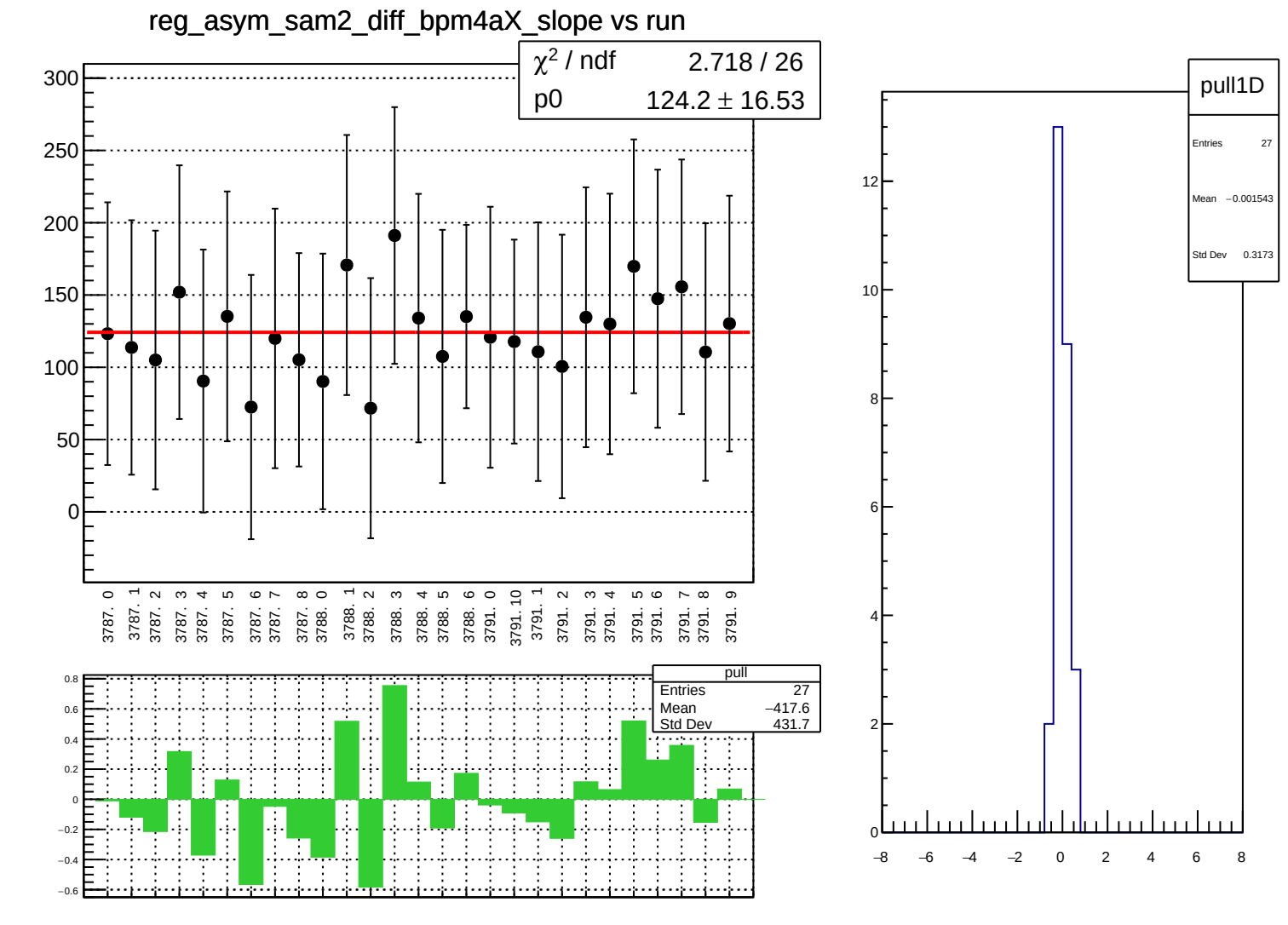

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 25.61 / 26
p0 −52.65 ± 0.4833
−44
−46
−48
−50
−52
−54
−56
−58
−60
−62
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −7.991
Std Dev 42.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

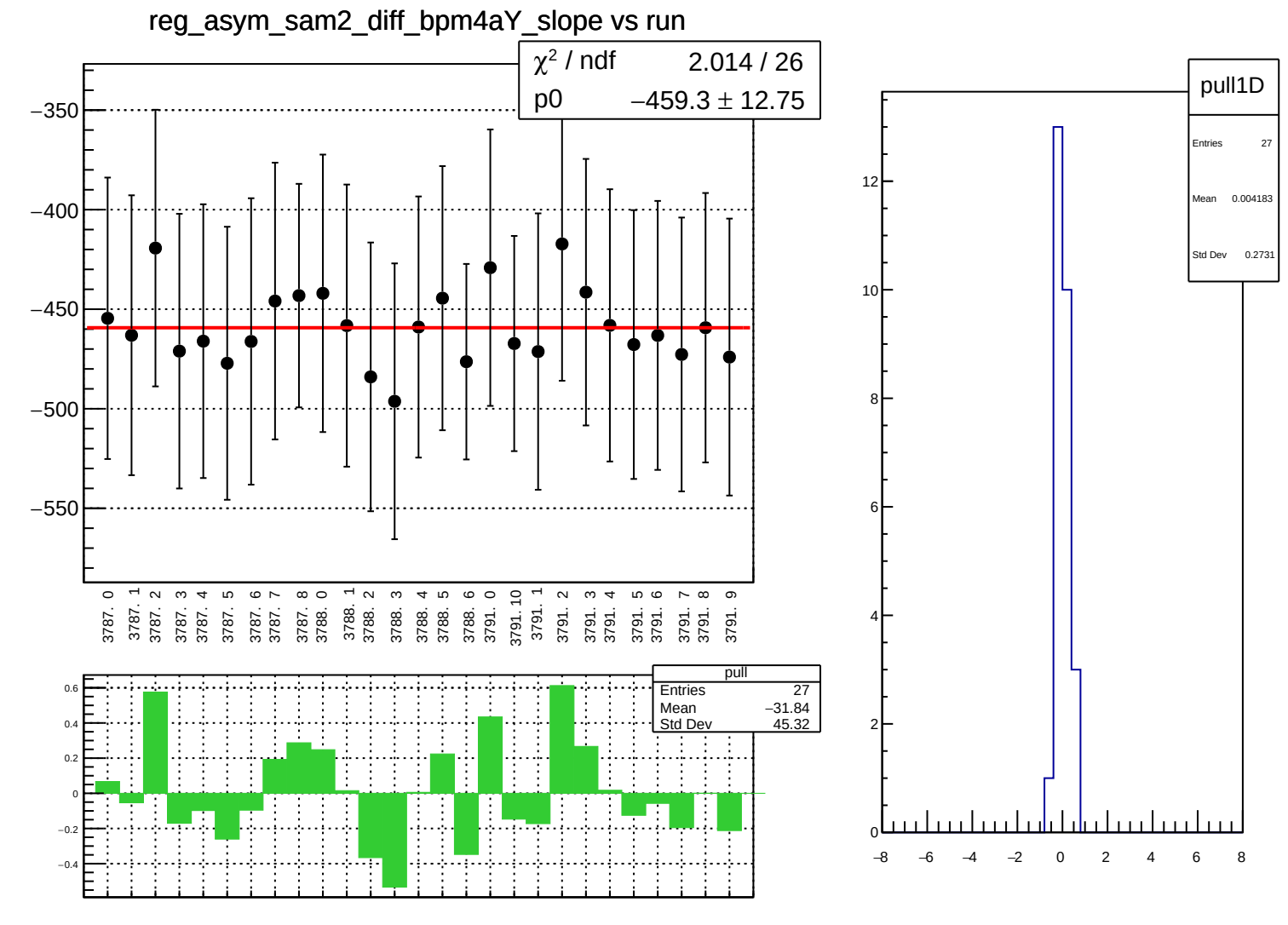

pull1D
Entries 27
Mean −0.01201
Std Dev 0.9738
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

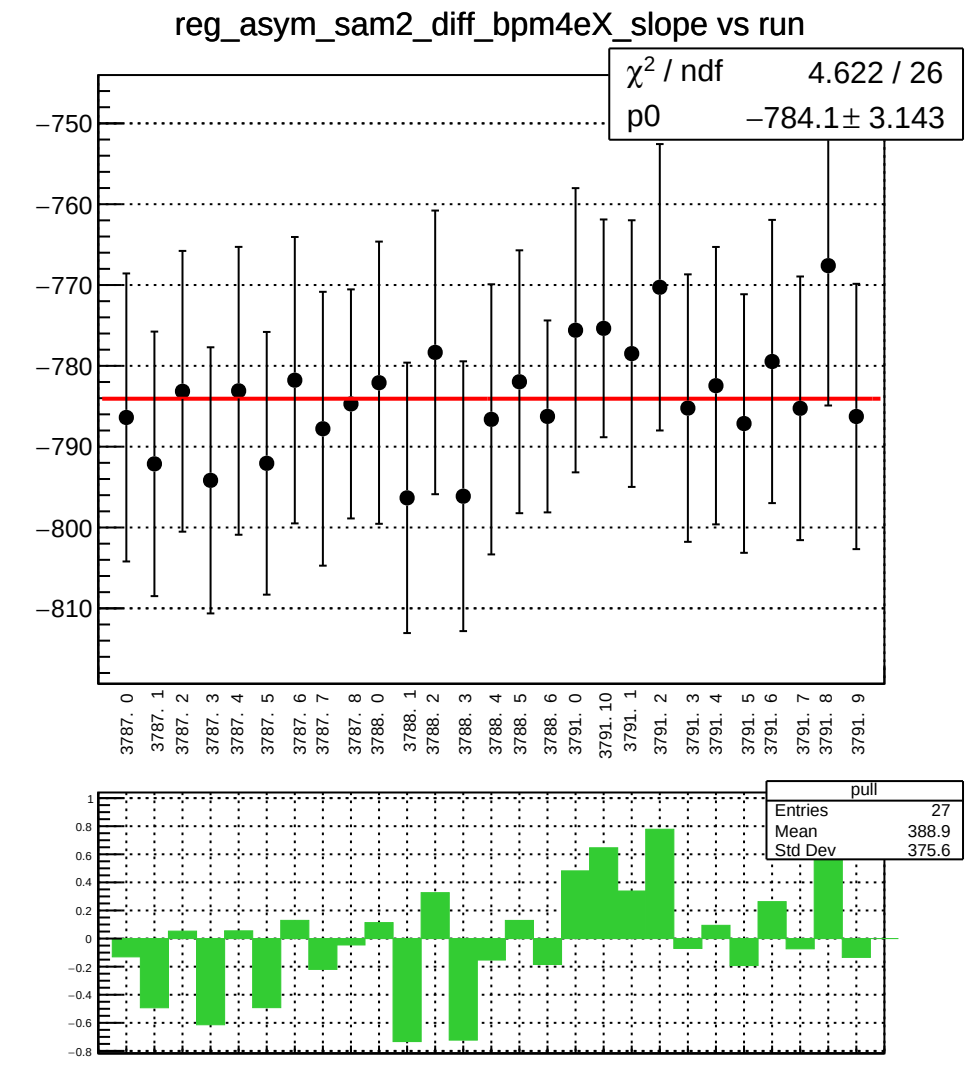

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 9.625 / 26
p0 −1.738 ± 3.054
40
30
20
10
0
−10
−20
−30
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 26.78
Std Dev 11.8
1
0.5
0
−0.5
−1

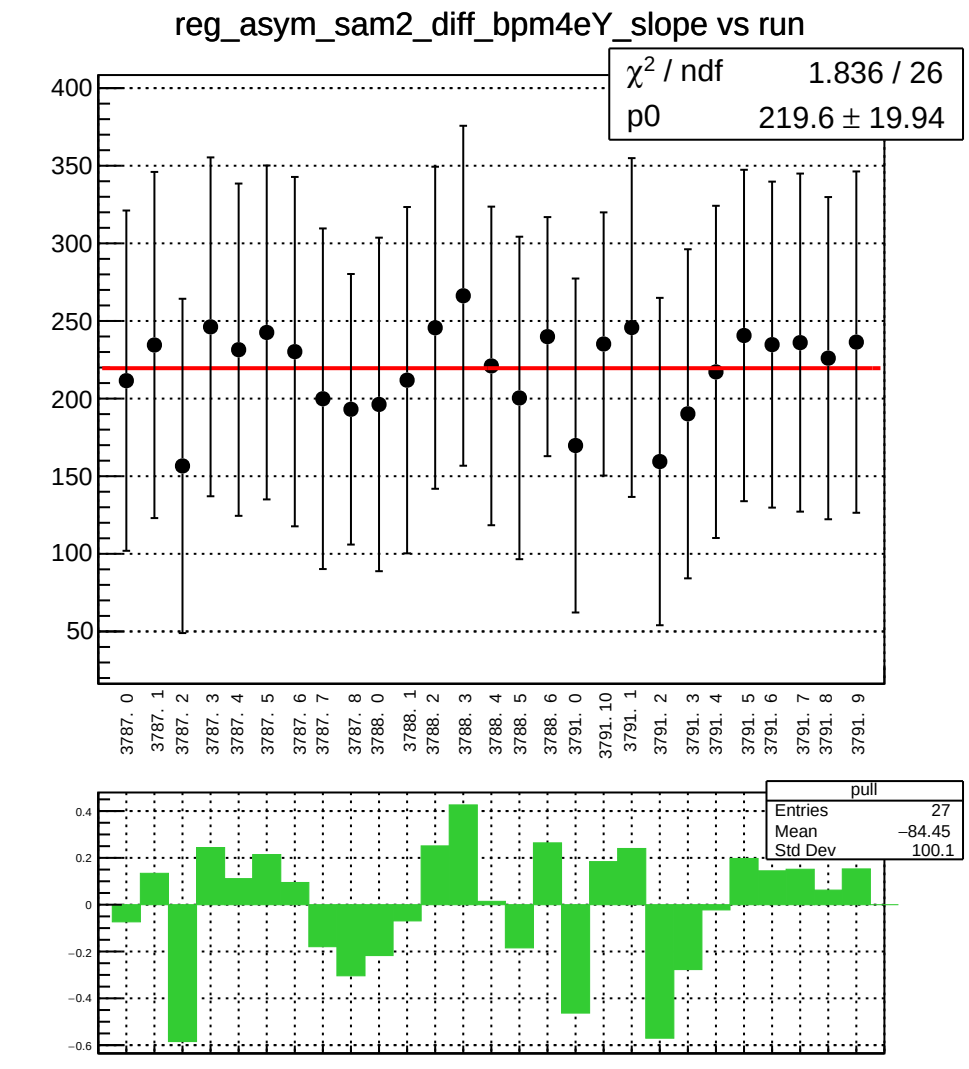

pull1D
Entries 27
Mean 0.02723
Std Dev 0.5964
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

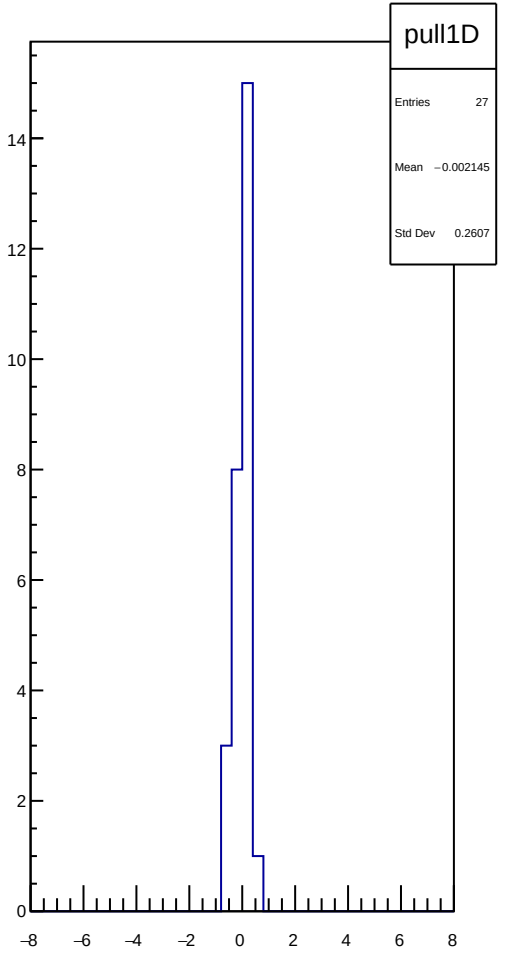

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 11.35 / 26
p0 3.753 ± 0.6701
pull
Entries 27
Mean −171.1
Std Dev 184.3
pull1D
Entries 27
Mean −0.02242
Std Dev 0.648

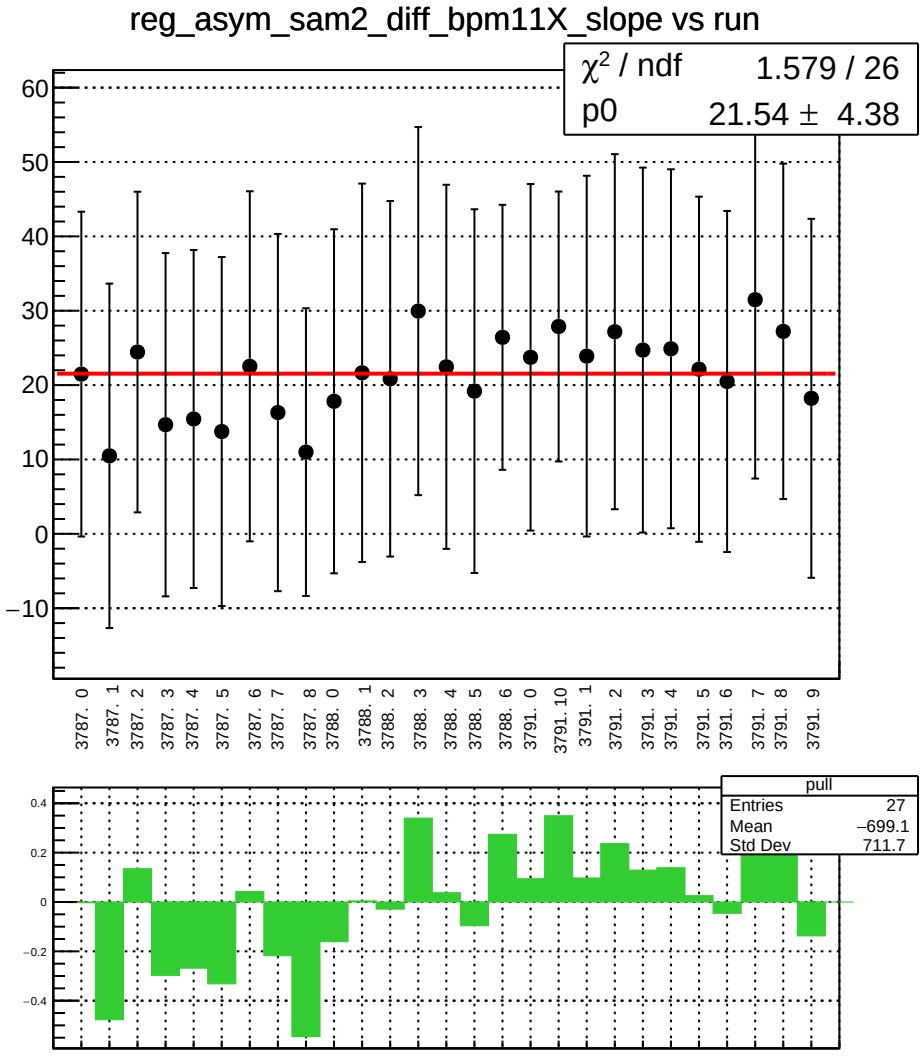

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 2.718 / 26
p0 124.2 ± 16.53
300
250
200
150
100
50
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −417.6
Std Dev 431.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 27
Mean −0.001543
Std Dev 0.3173
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

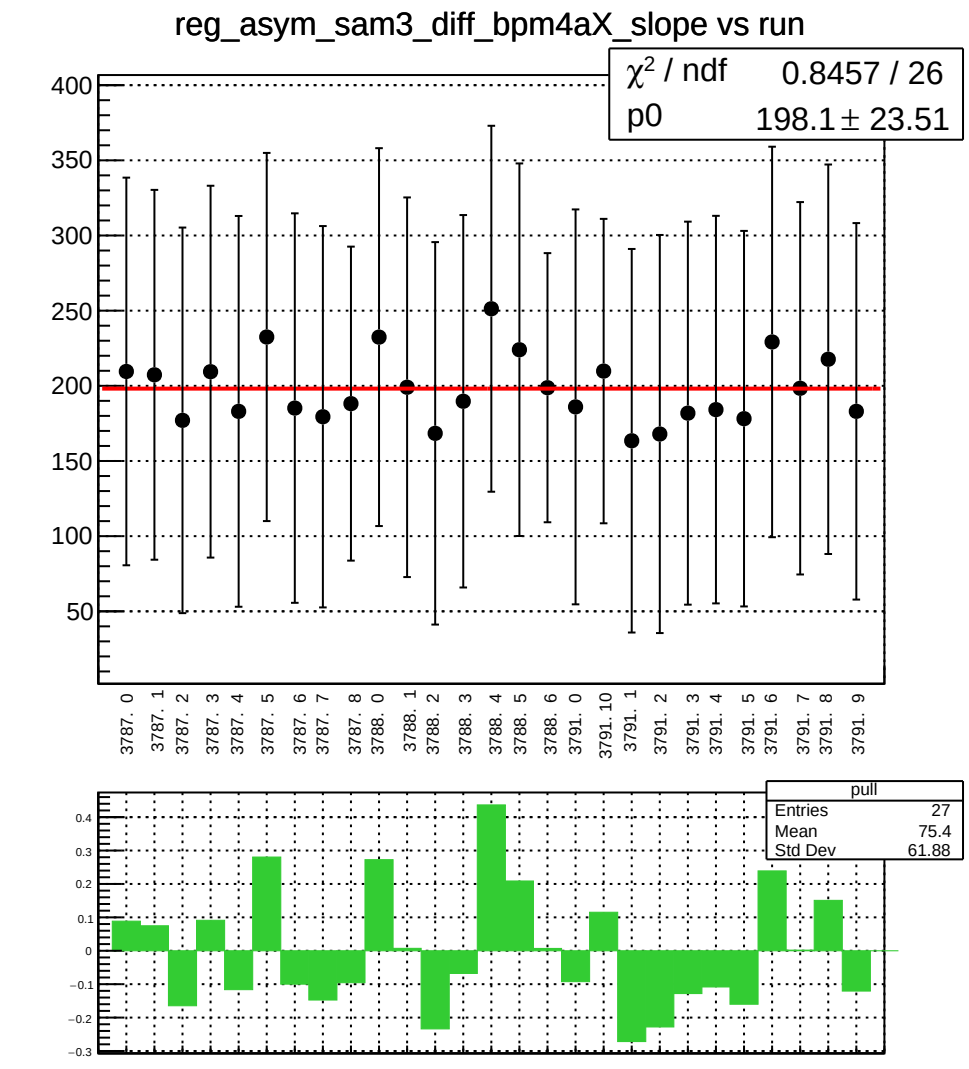

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 2.014 / 26
p0 −459.3 ± 12.75
−350
−400
−450
−500
−550
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −31.84
Std Dev 45.32
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 27
Mean 0.004183
Std Dev 0.2731
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

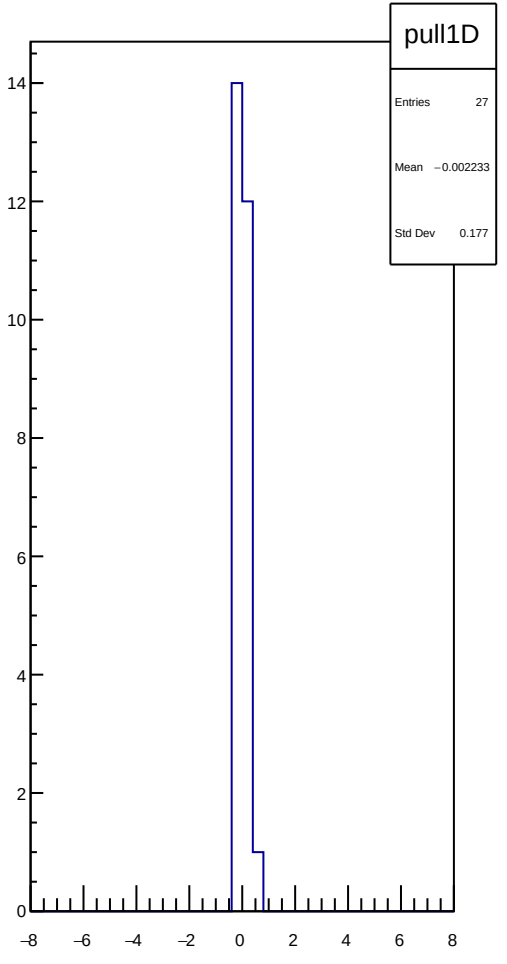

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 4.622 / 26
p0 −784.1 ± 3.143
−750
−760
−770
−780
−790
−800
−810
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 388.9
Std Dev 375.6
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 27
Mean 0.003871
Std Dev 0.4137
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

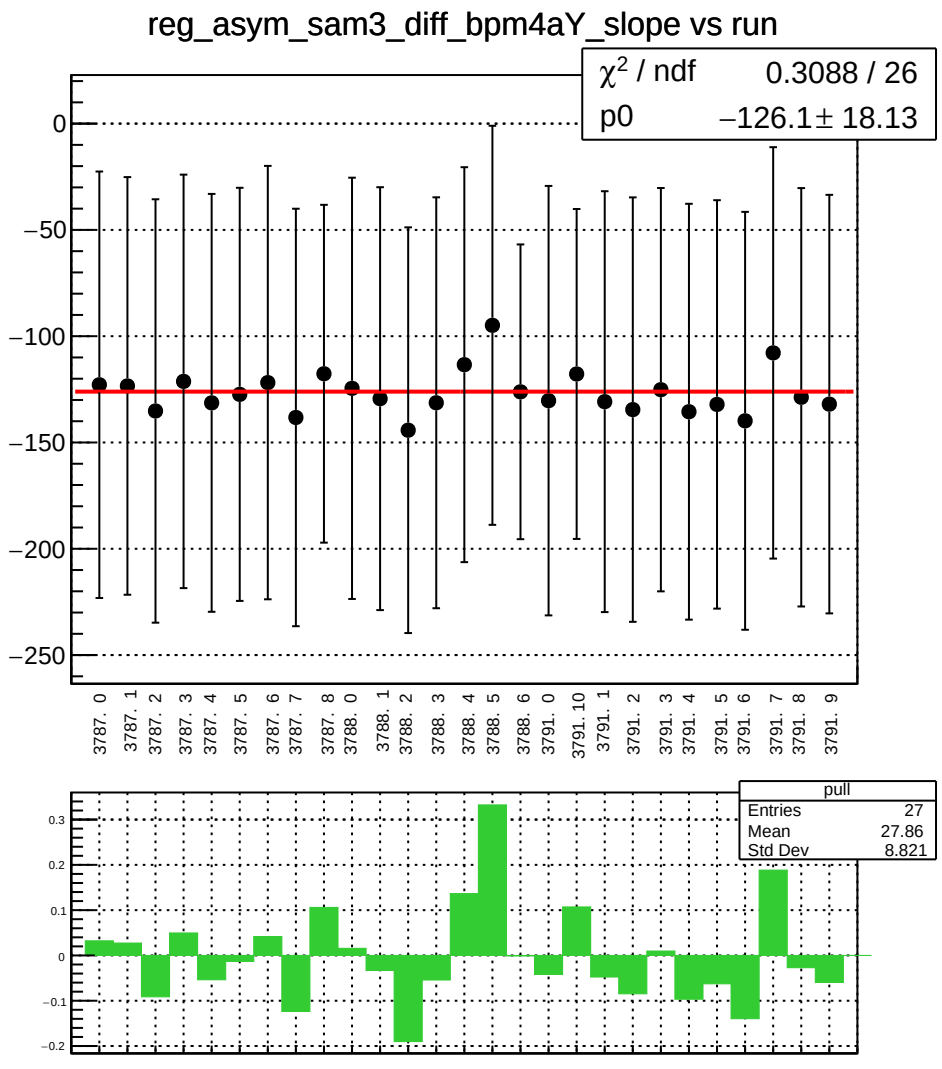

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.836 / 26
p0 219.6 ± 19.94
400
350
300
250
200
150
100
50
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −84.45
Std Dev 100.1
0.4
0.2
0
−0.2
−0.4
−0.6

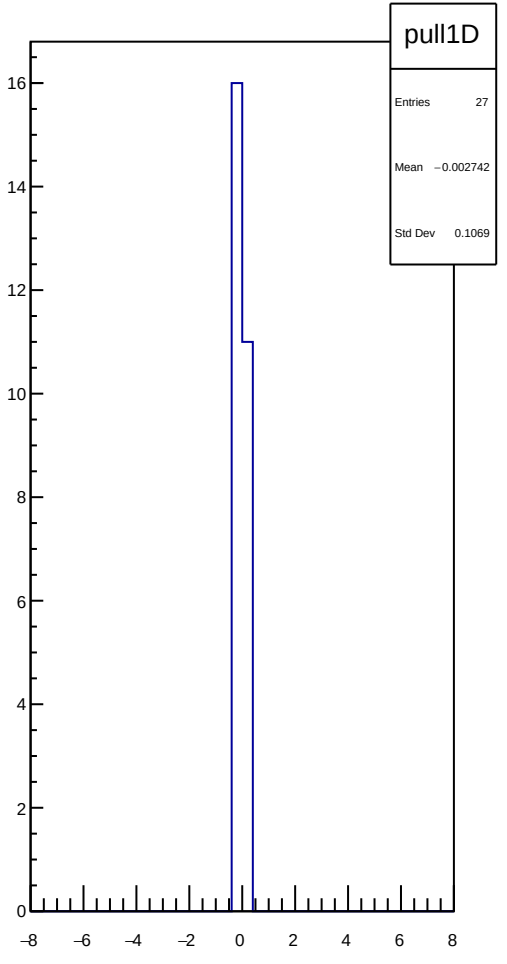

pull1D
Entries 27
Mean −0.002145
Std Dev 0.2607
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

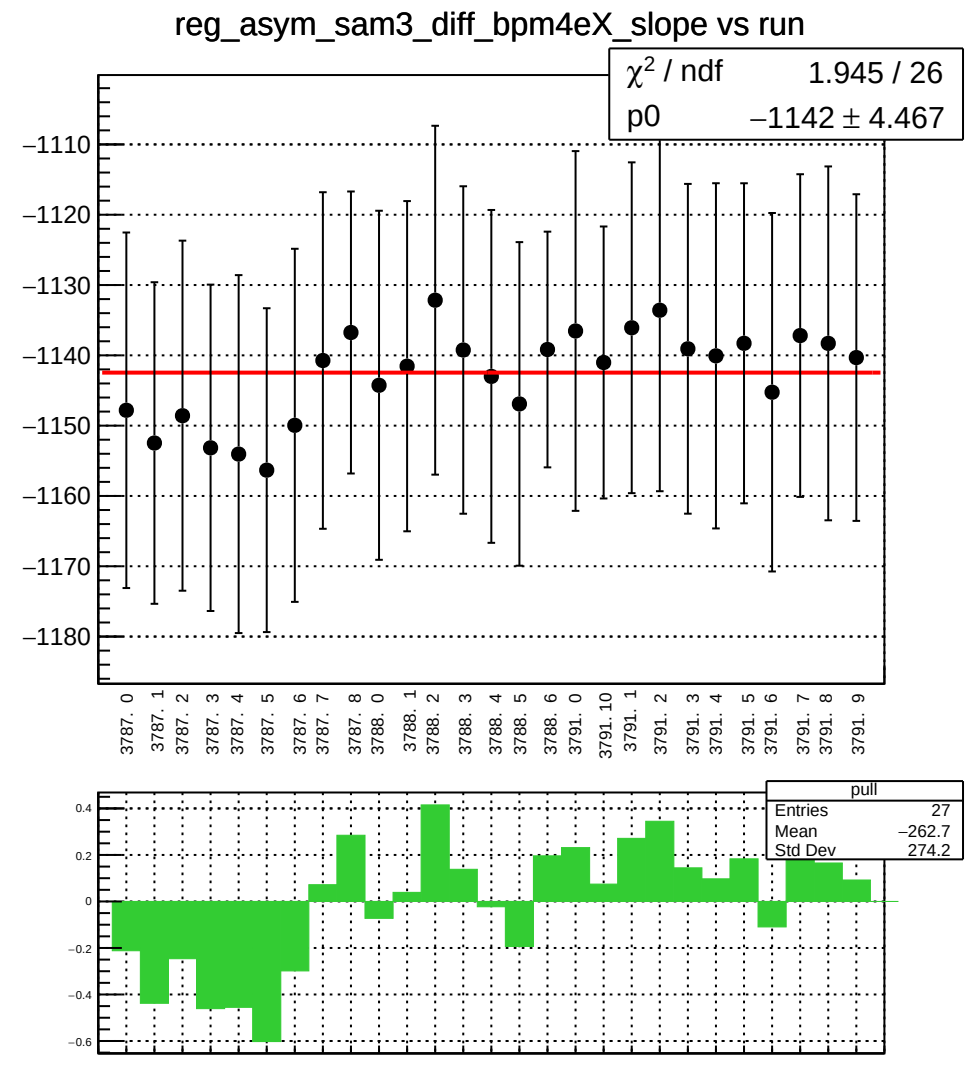

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 1.579 / 26
p0 21.54 ± 4.38
60
50
40
30
20
10
0
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −699.1
Std Dev 711.7
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 27
Mean −0.001456
Std Dev 0.2418
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

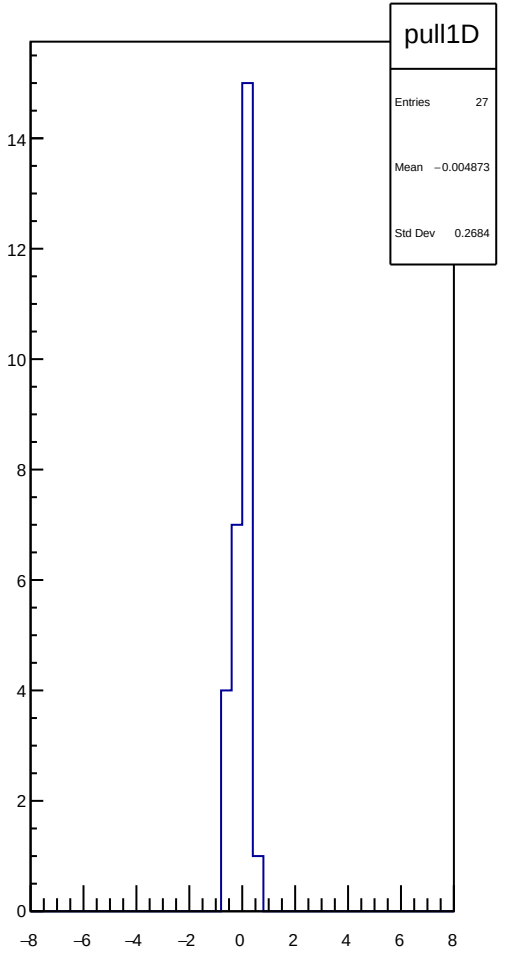

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 0.8457 / 26
p0 198.1 ± 23.51
400
350
300
250
200
150
100
50
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 75.4
Std Dev 61.88
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

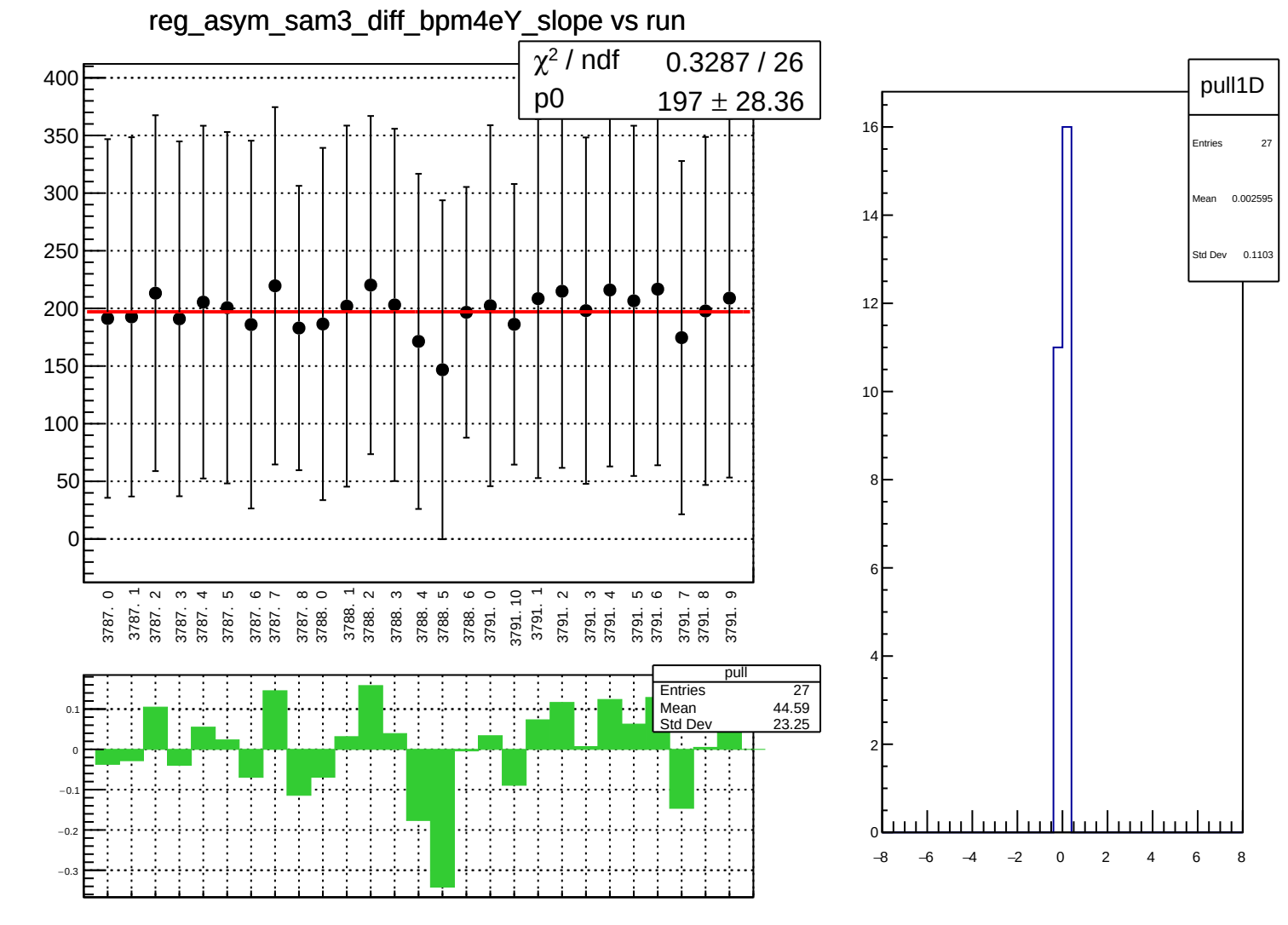

pull1D
Entries 27
Mean −0.002233
Std Dev 0.177
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

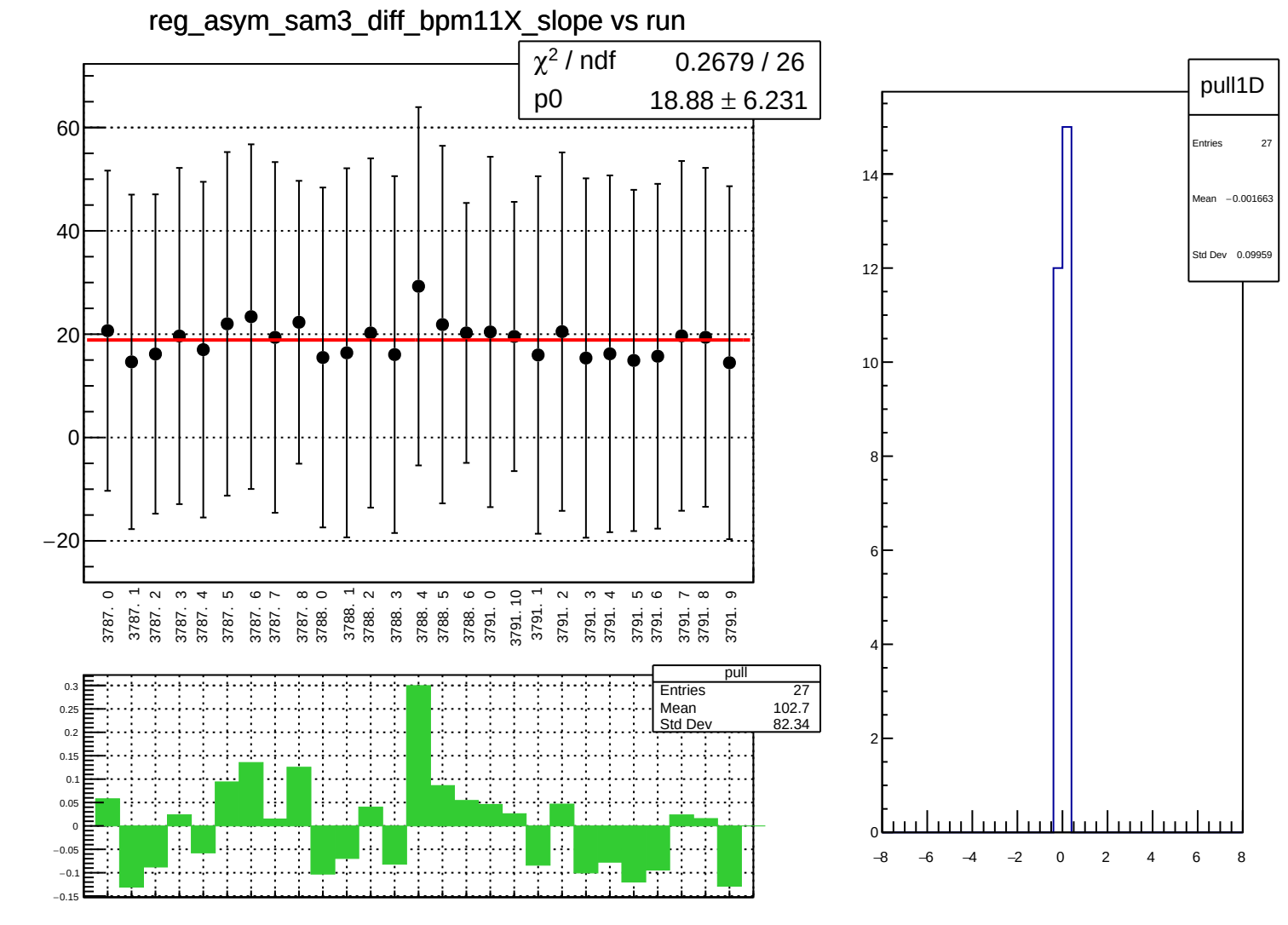

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0.3088 / 26
p0 −126.1± 18.13
0
−50
−100
−150
−200
−250
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 27.86
Std Dev 8.821
0.3
0.2
0.1
0
−0.1
−0.2

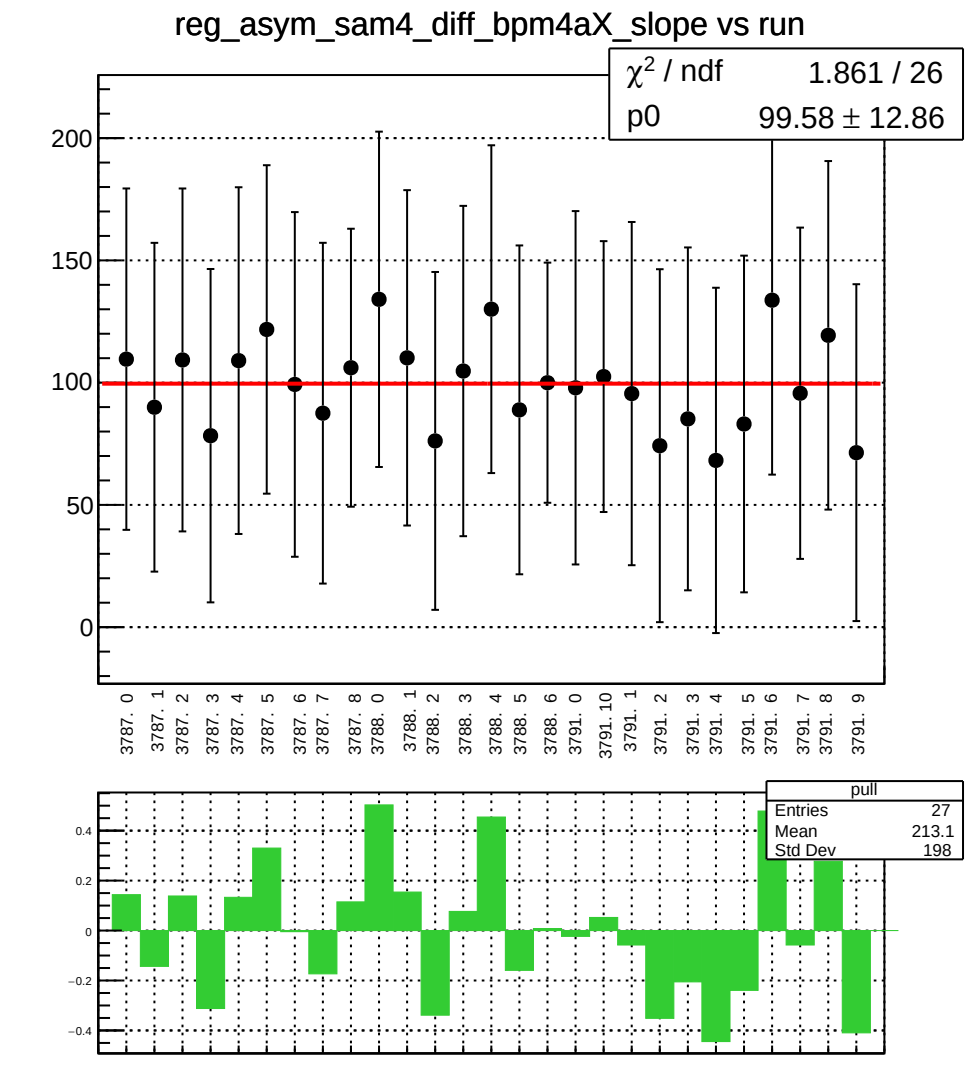

pull1D
Entries 27
Mean −0.002742
Std Dev 0.1069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

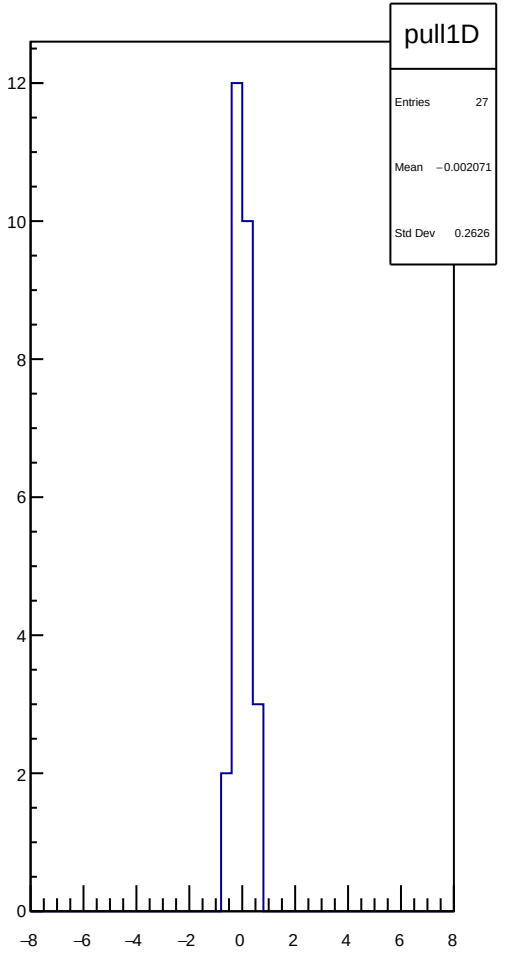

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 1.945 / 26
p0 −1142 ± 4.467
−1110
−1120
−1130
−1140
−1150
−1160
−1170
−1180
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −262.7
Std Dev 274.2
0.4
0.2
0
−0.2
−0.4
−0.6


pull1D
Entries 27
Mean −0.004873
Std Dev 0.2684
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.3287 / 26
p0 197 ± 28.36
400
350
300
250
200
150
100
50
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 44.59
Std Dev 23.25
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 27
Mean 0.002595
Std Dev 0.1103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 0.2679 / 26
p0 18.88 ± 6.231
60
40
20
0
−20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 102.7
Std Dev 82.34
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 27
Mean −0.001663
Std Dev 0.09959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 1.861 / 26
p0 99.58 ± 12.86
200
150
100
50
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 213.1
Std Dev 198
0.4
0.2
0
−0.2
−0.4


pull1D
Entries 27
Mean −0.002071
Std Dev 0.2626
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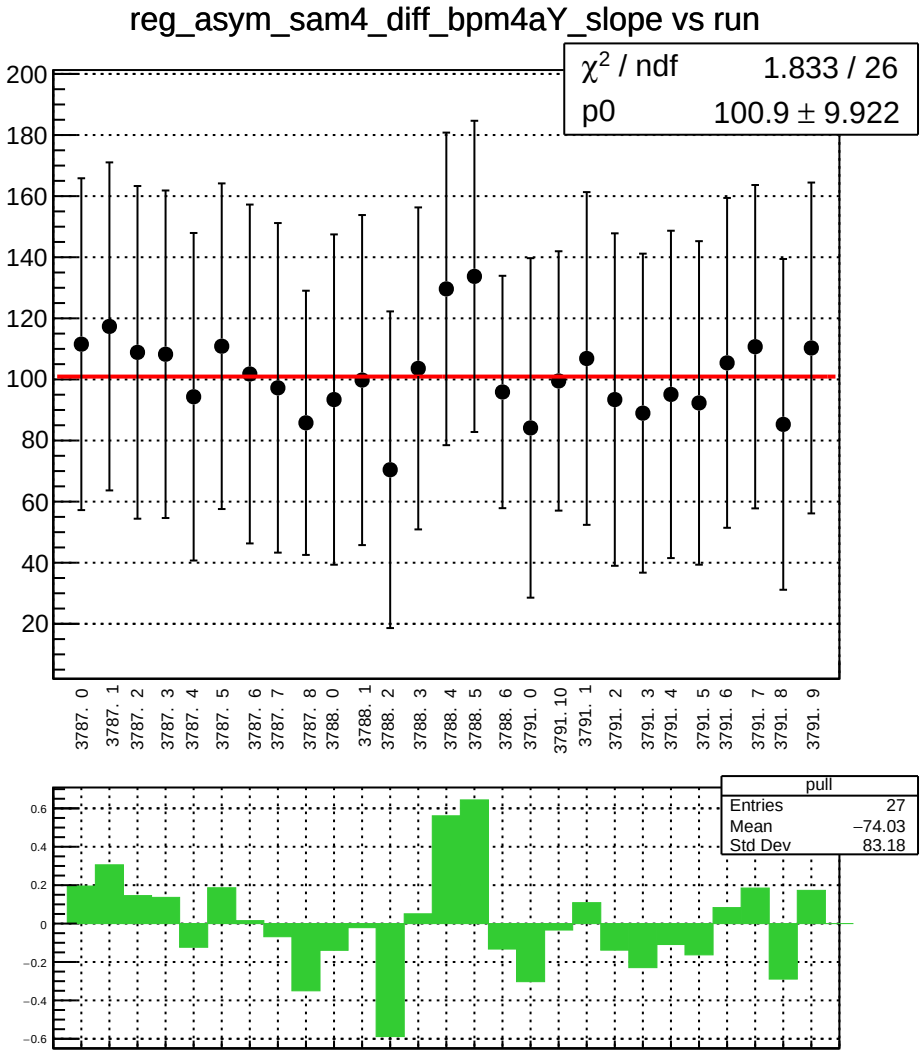
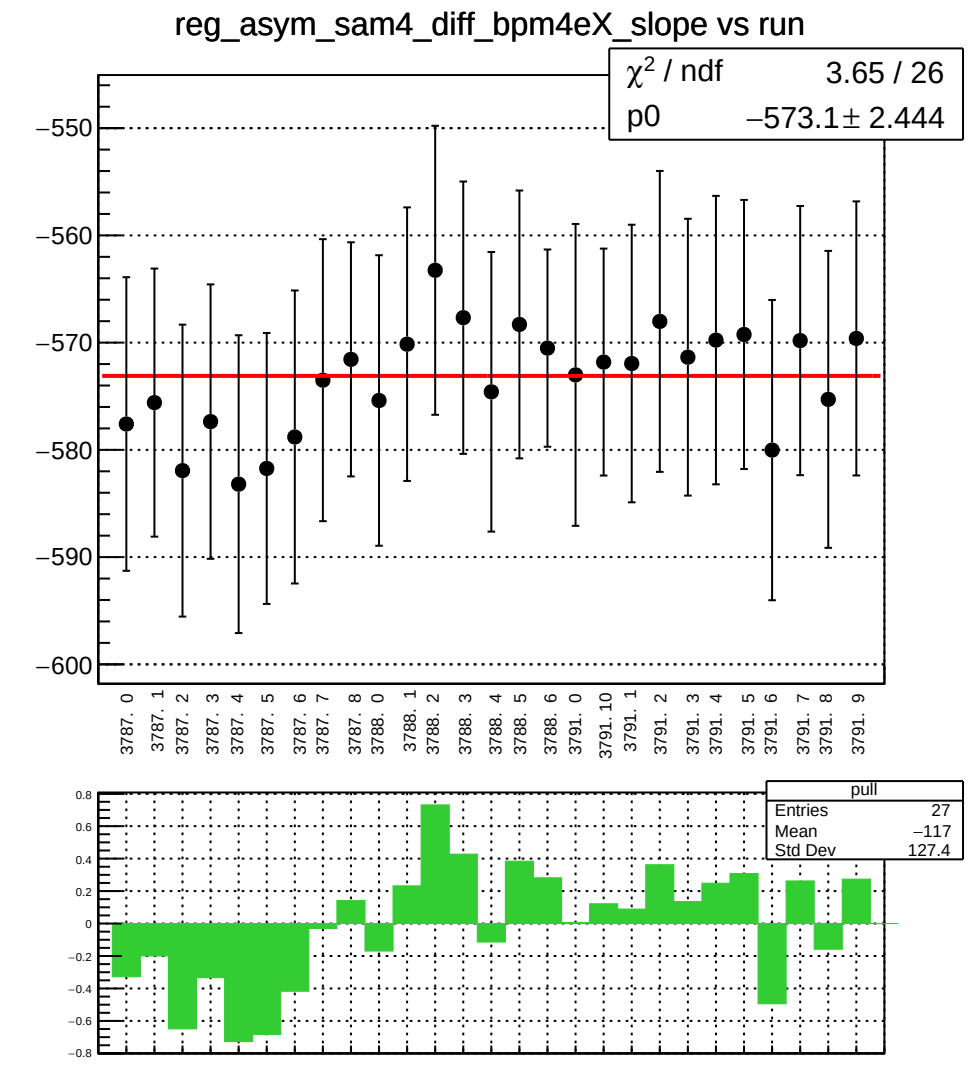
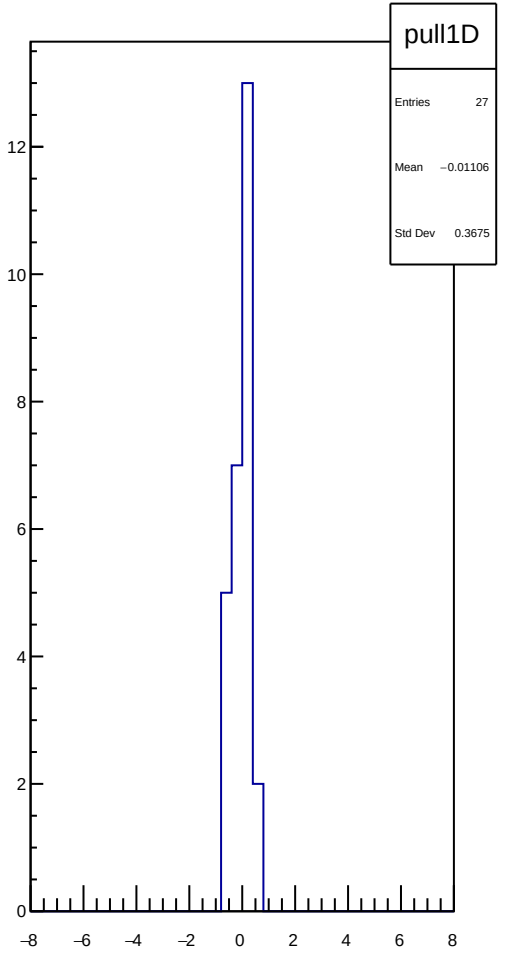
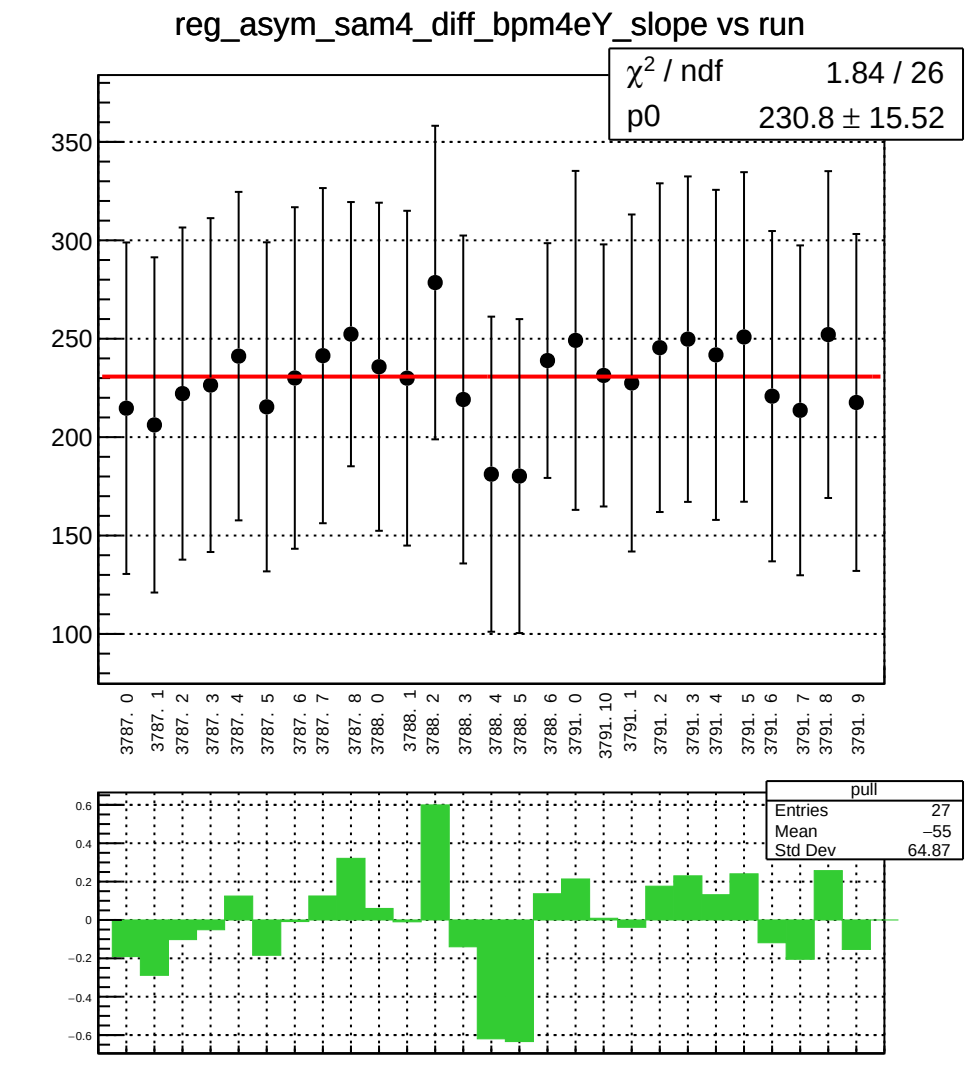
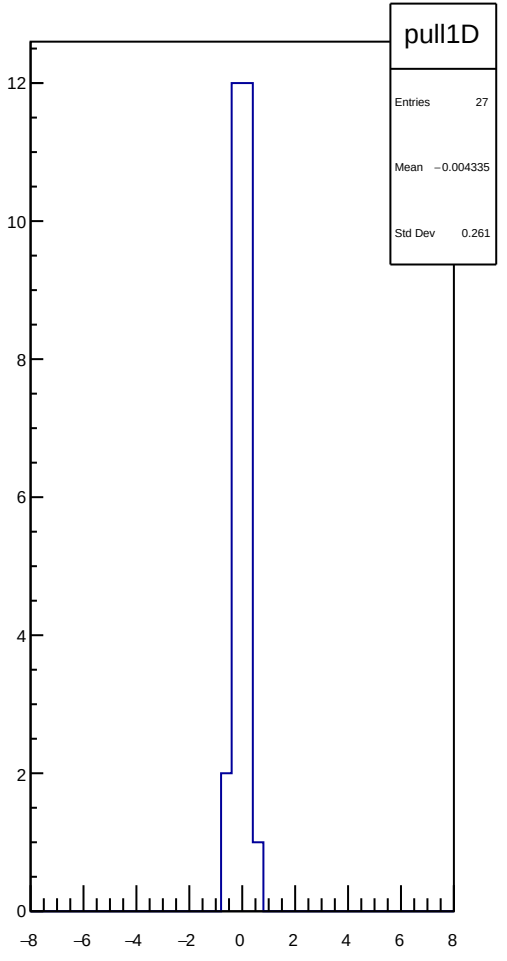
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

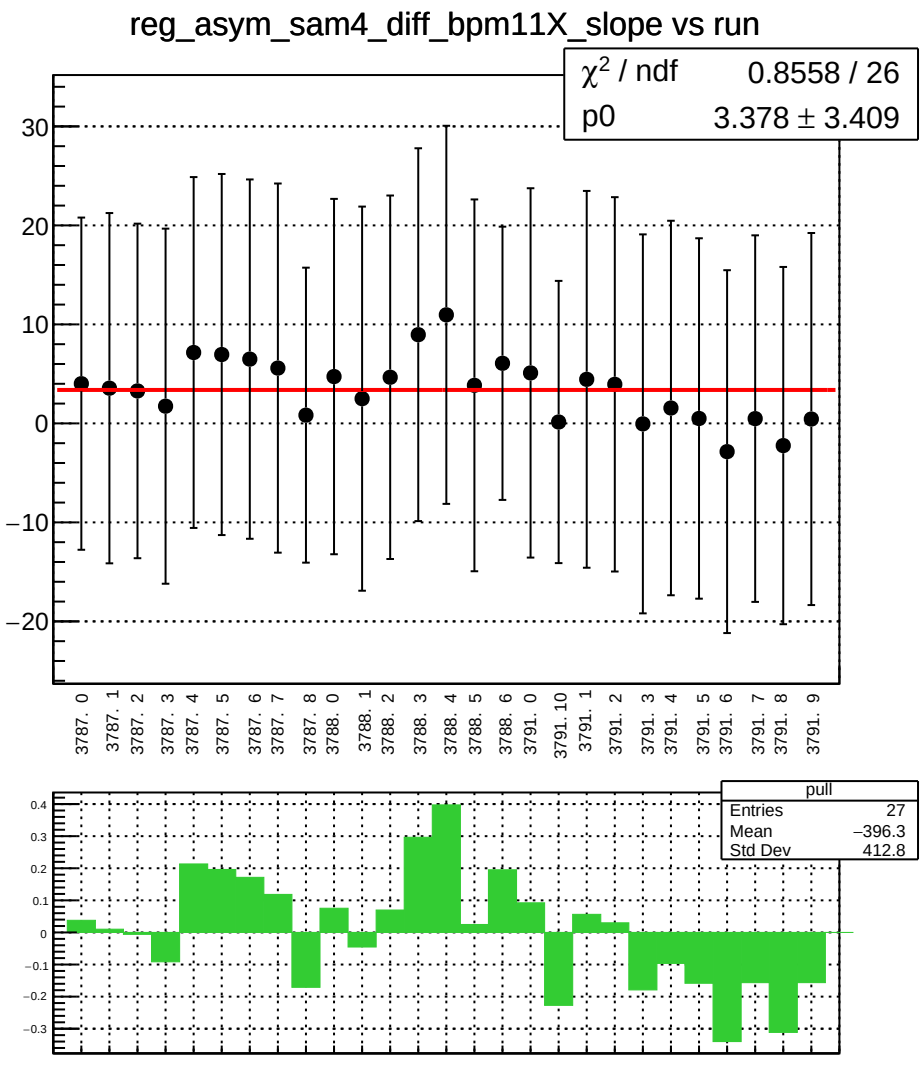

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.833 / 26
p0 100.9 ± 9.922
200
180
160
140
120
100
80
60
40
20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −74.03
Std Dev 83.18
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 27
Mean 0.00381
Std Dev 0.2606
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

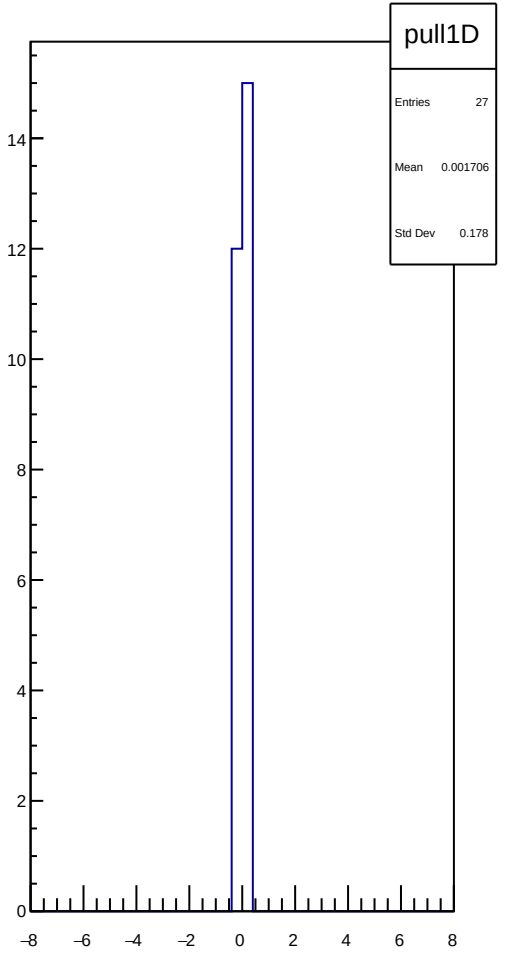

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 3.65 / 26
p0 −573.1± 2.444
−550
−560
−570
−580
−590
−600
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −117
Std Dev 127.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

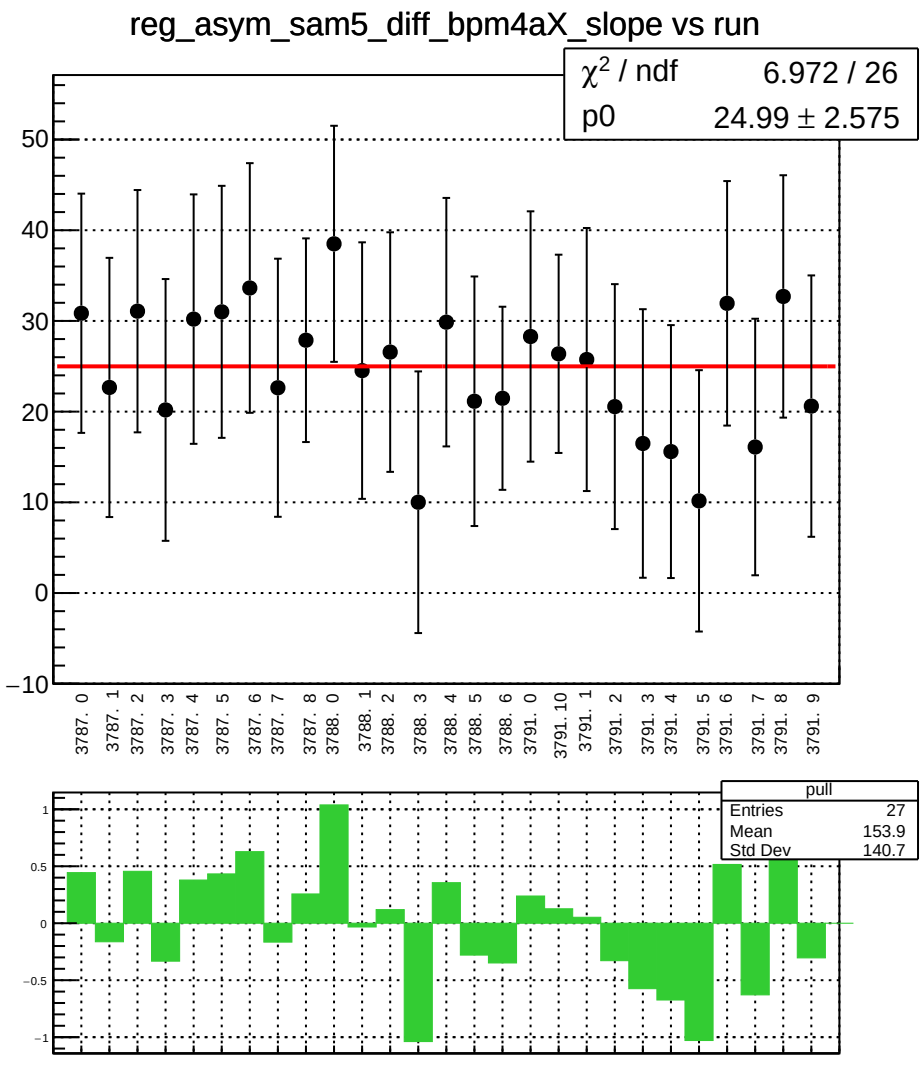

pull1D
Entries 27
Mean −0.01106
Std Dev 0.3675
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

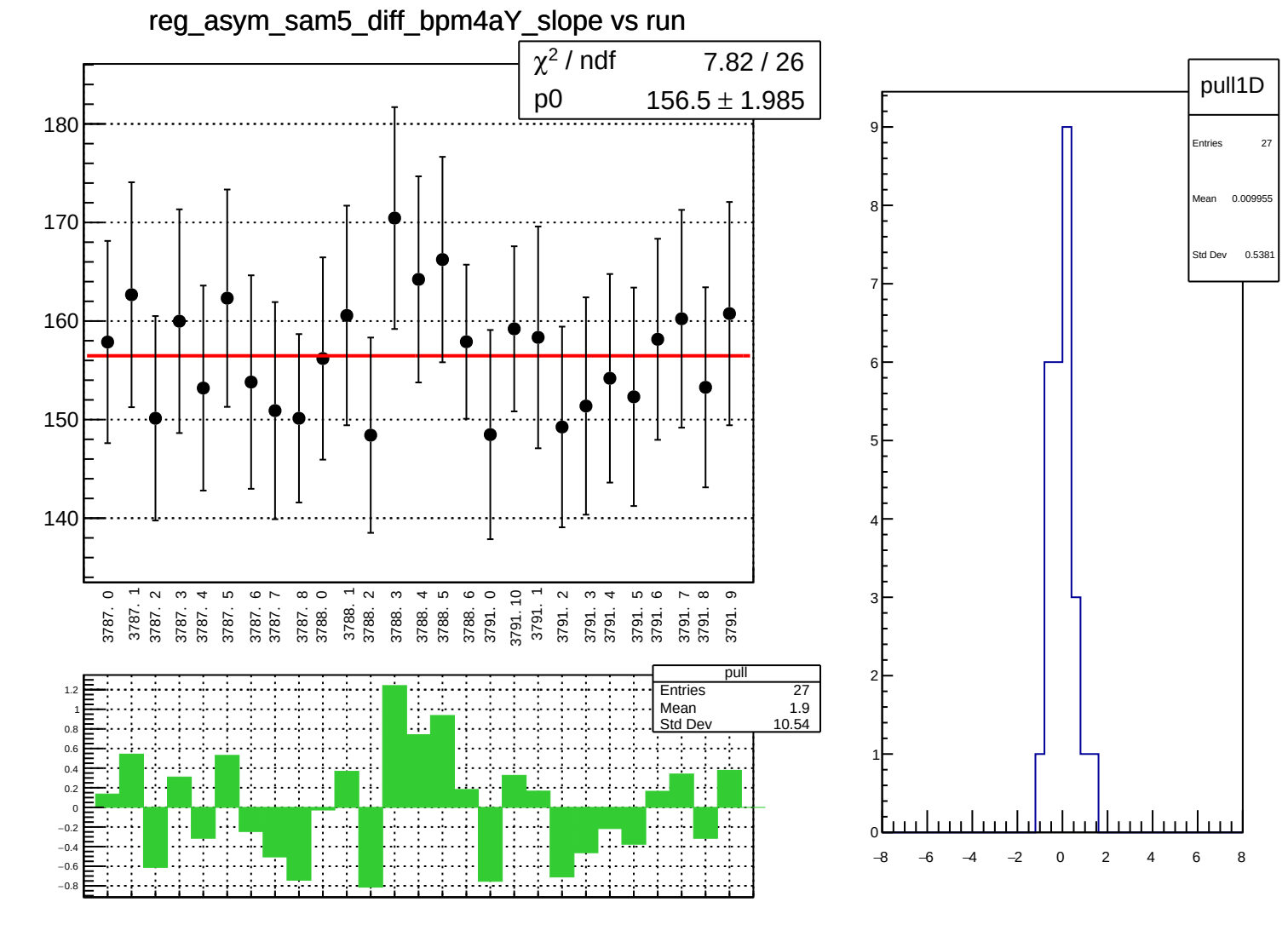

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.84 / 26
p0 230.8 ± 15.52
350
300
250
200
150
100
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −55
Std Dev 64.87
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

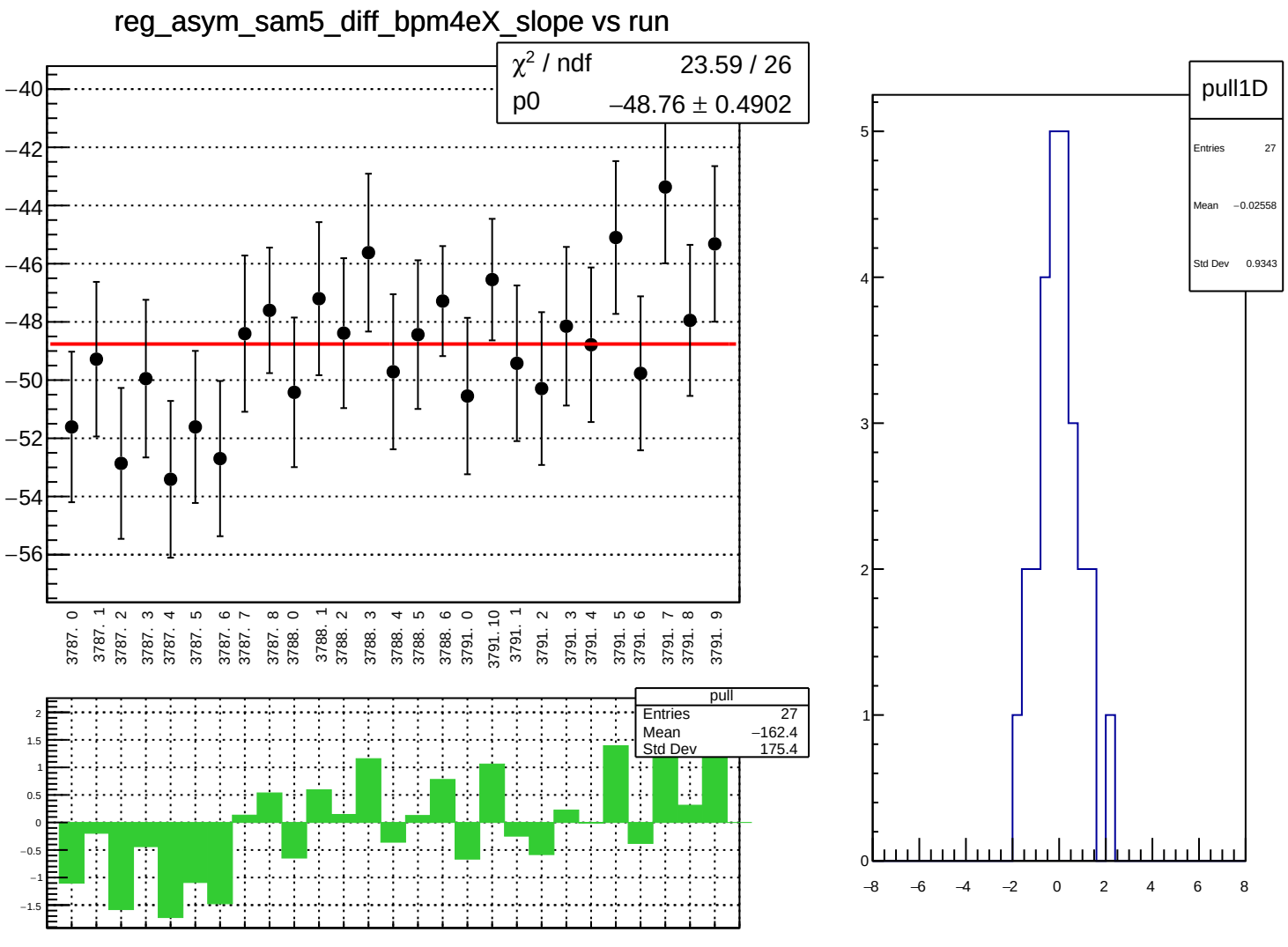

pull1D
Entries 27
Mean −0.004335
Std Dev 0.261
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

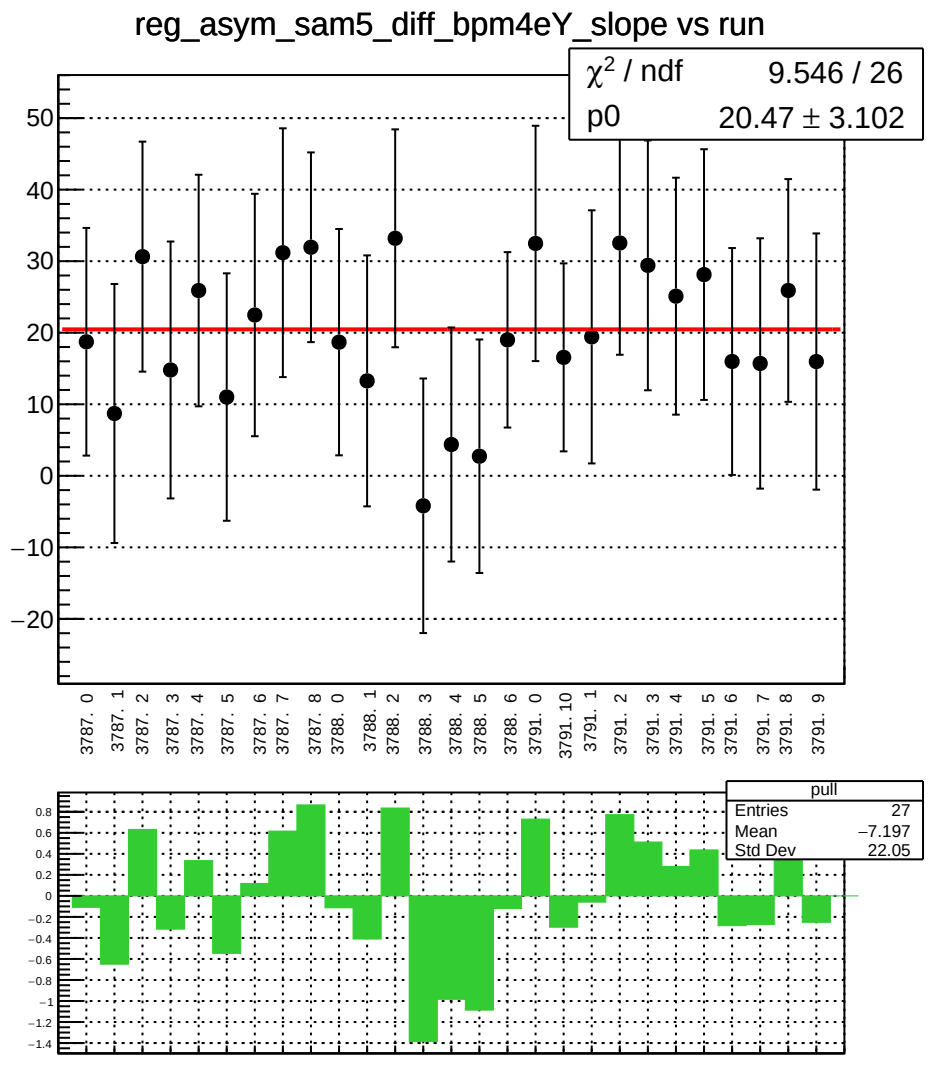

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 0.8558 / 26
p0 3.378 ± 3.409
30
20
10
0
−10
−20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −396.3
Std Dev 412.8
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

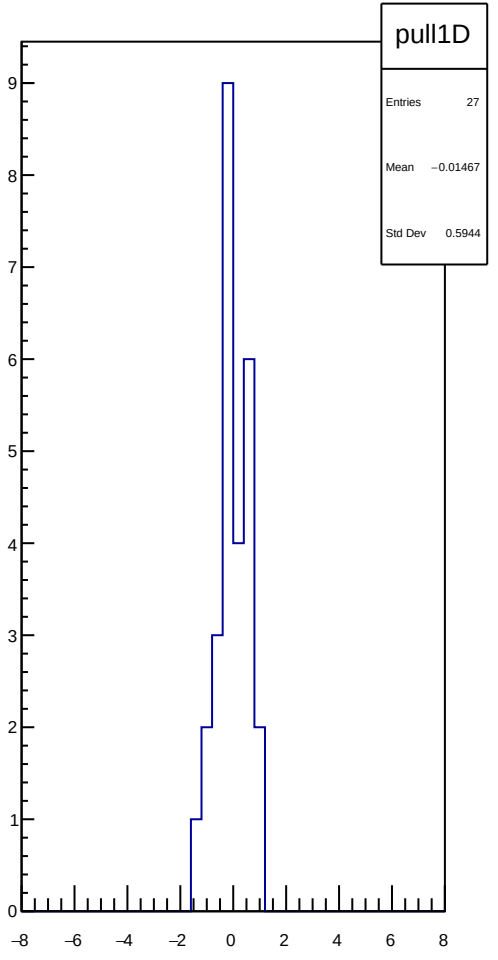

pull1D
Entries 27
Mean 0.001706
Std Dev 0.178
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

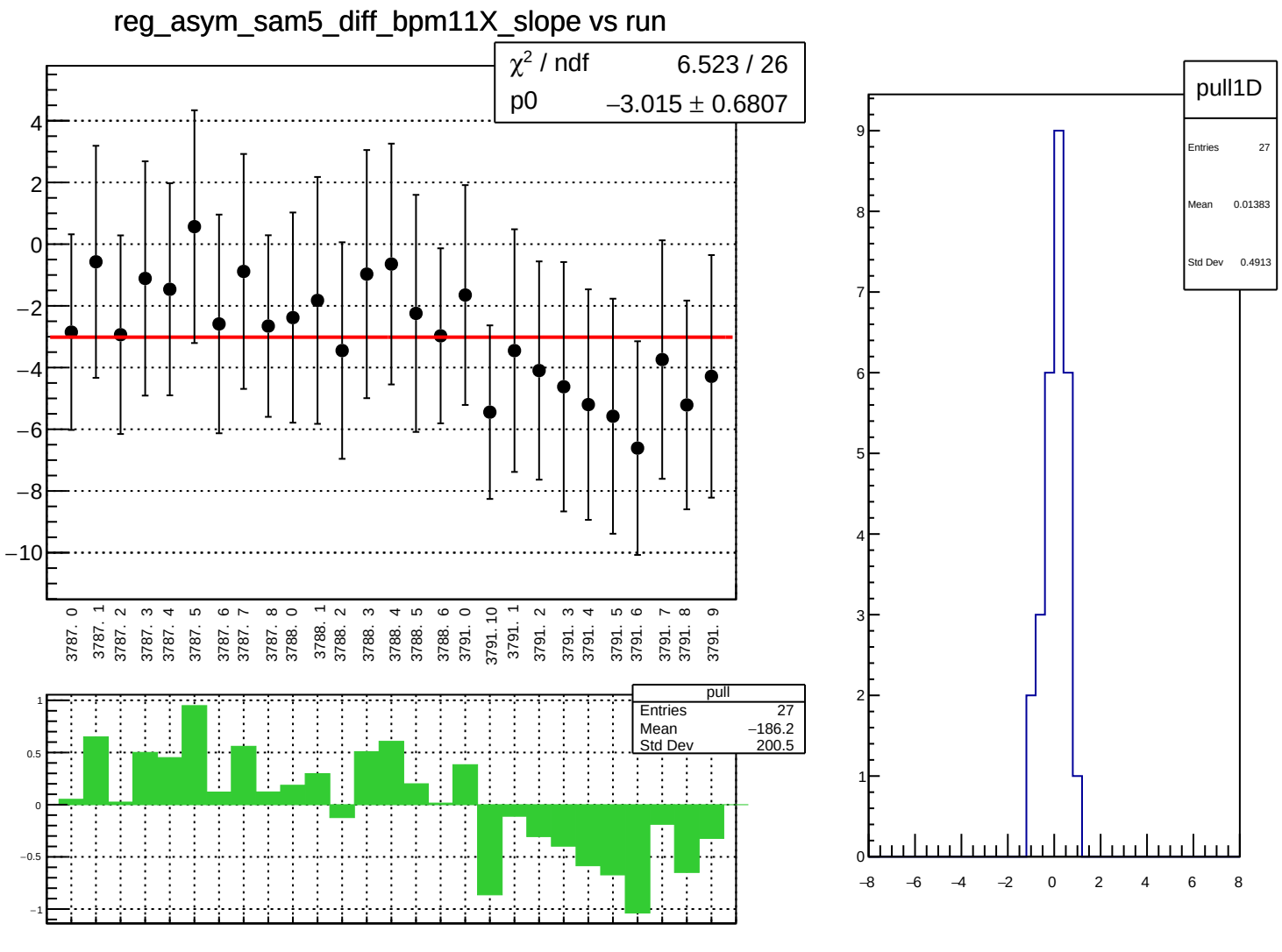

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 6.972 / 26
p0 24.99 ± 2.575
50
40
30
20
10
0
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 153.9
Std Dev 140.7
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean −0.01035
Std Dev 0.508
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

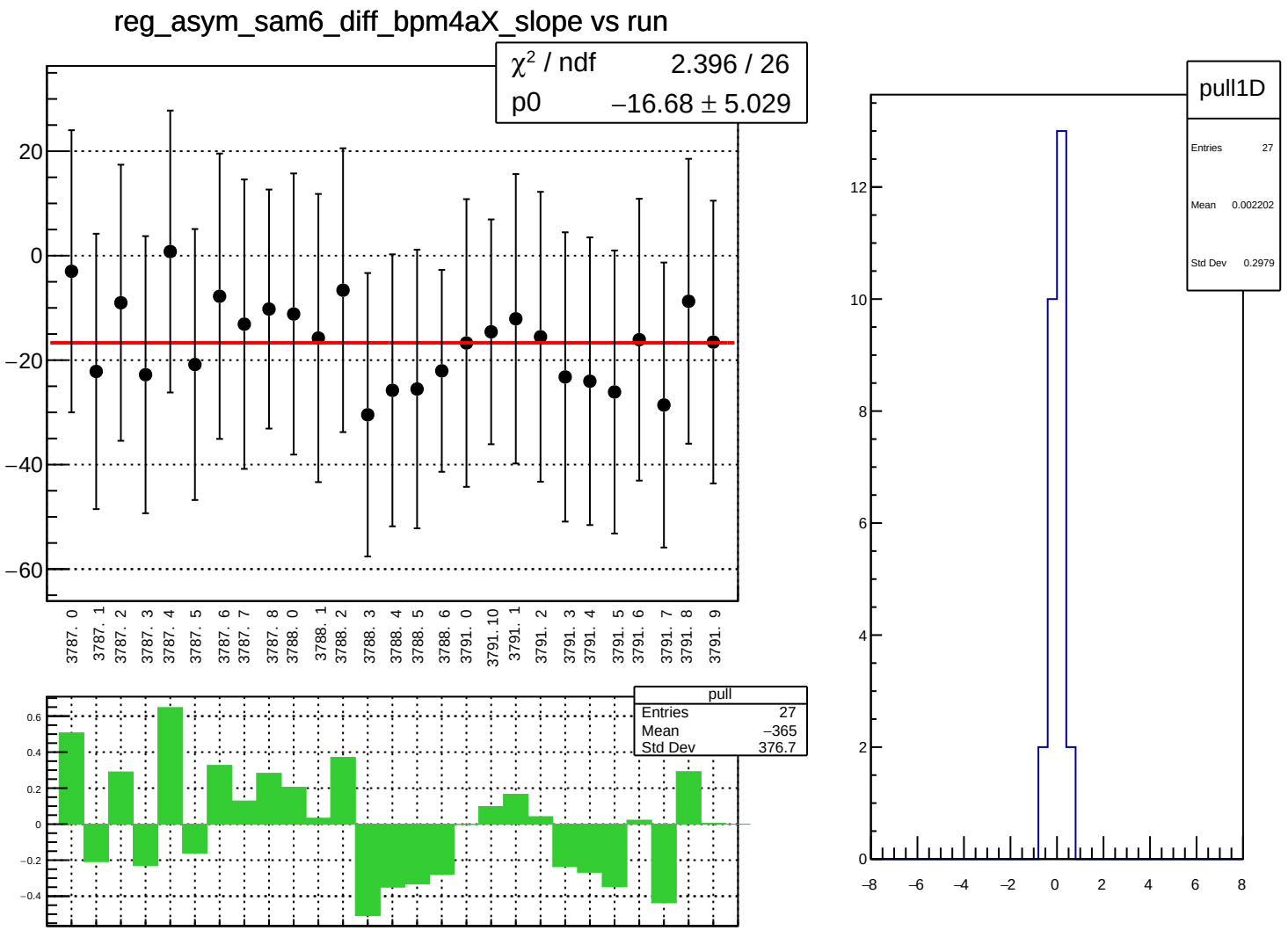

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 7.82 / 26
p0 156.5 ± 1.985
180
170
160
150
140
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 1.9
Std Dev 10.54
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 27
Mean 0.009955
Std Dev 0.5381
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

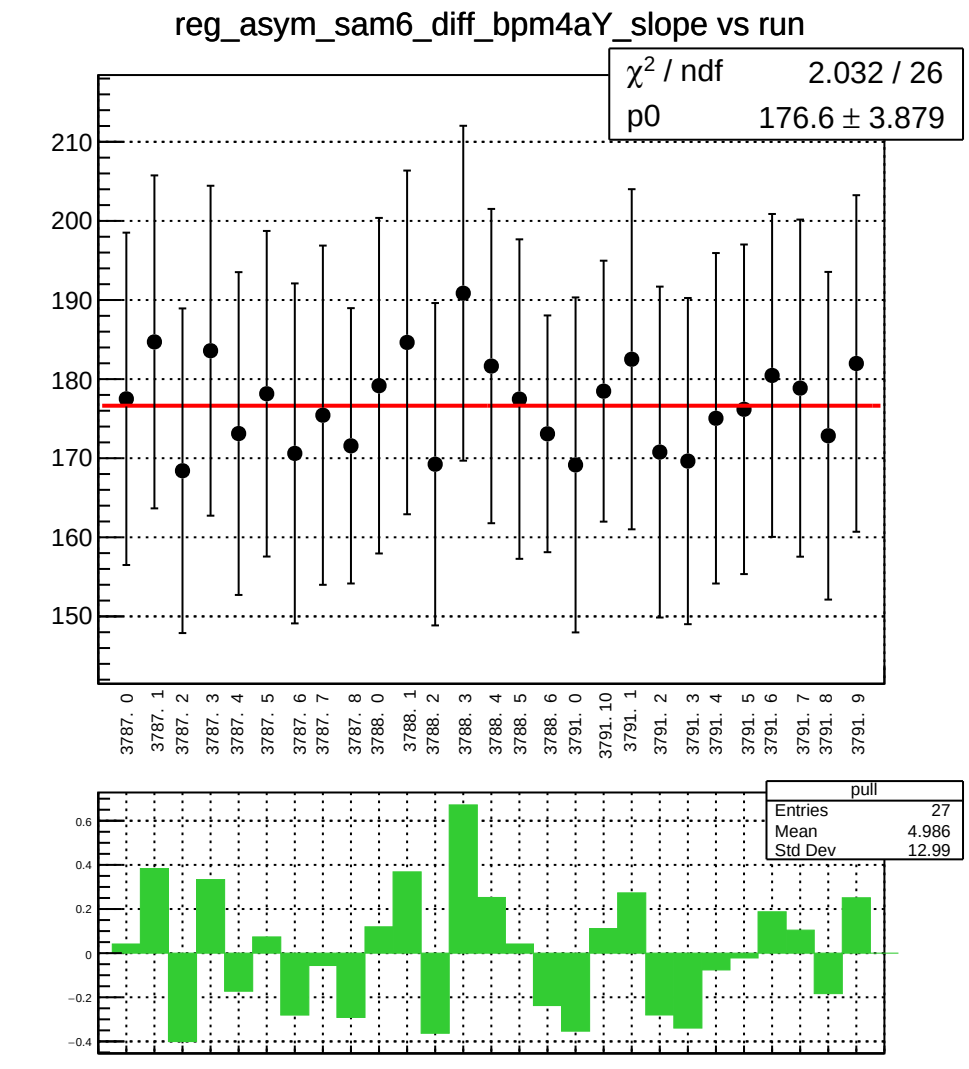

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 23.59 / 26
p0 −48.76 ± 0.4902
−40
−42
−44
−46
−48
−50
−52
−54
−56
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −162.4
Std Dev 175.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean −0.02558
Std Dev 0.9343
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

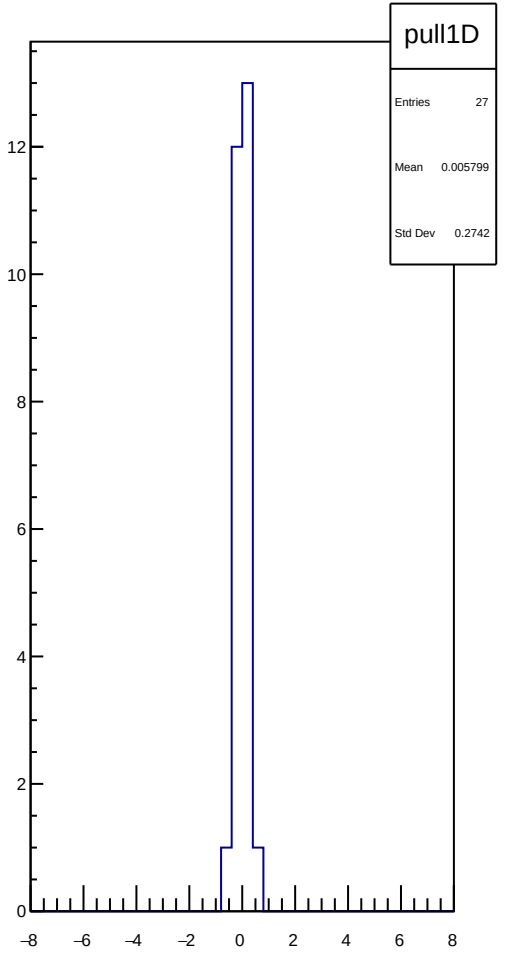

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 9.546 / 26
p0 20.47 ± 3.102
50
40
30
20
10
0
−10
−20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −7.197
Std Dev 22.05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

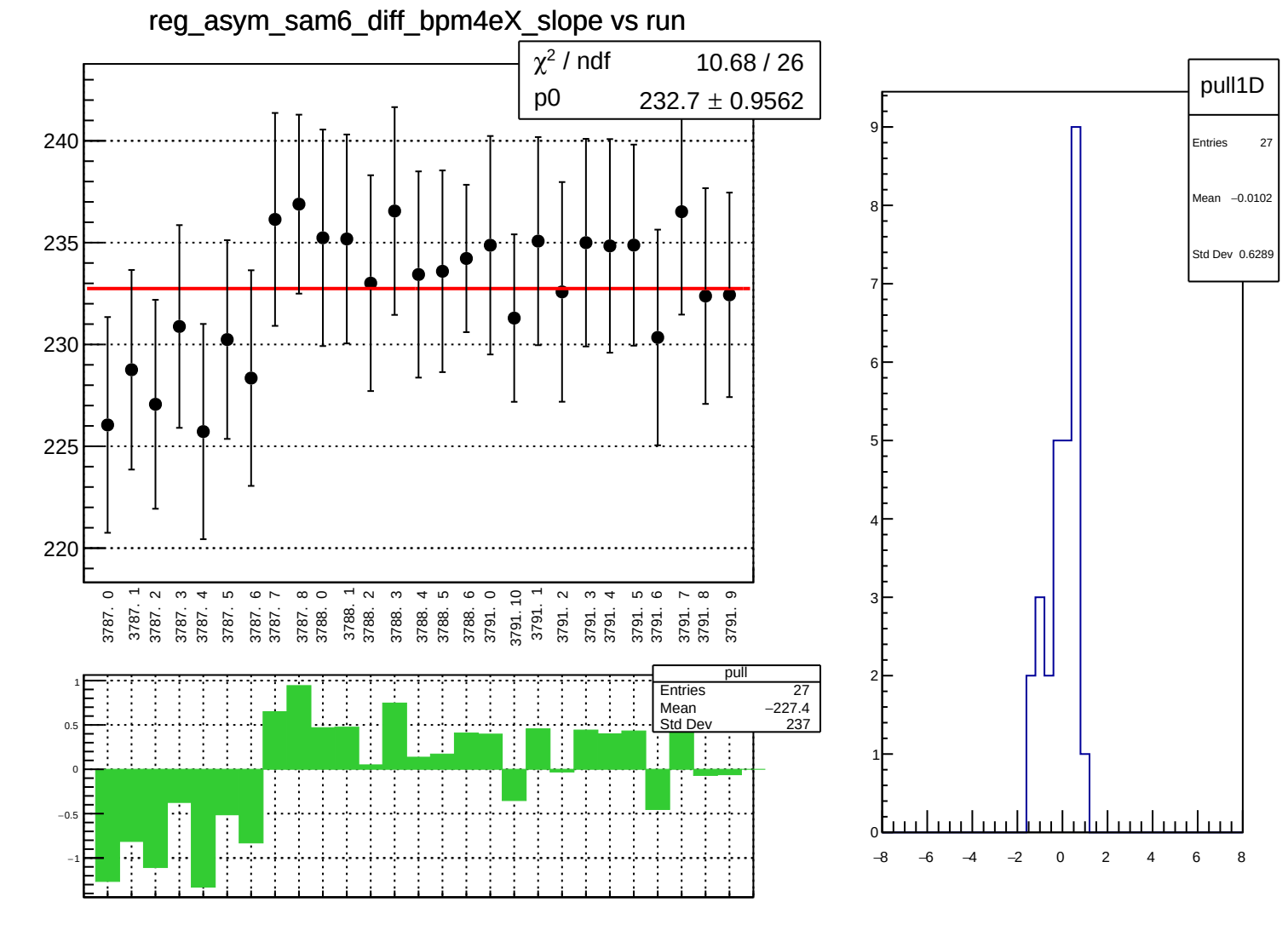

pull1D
Entries 27
Mean −0.01467
Std Dev 0.5944
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

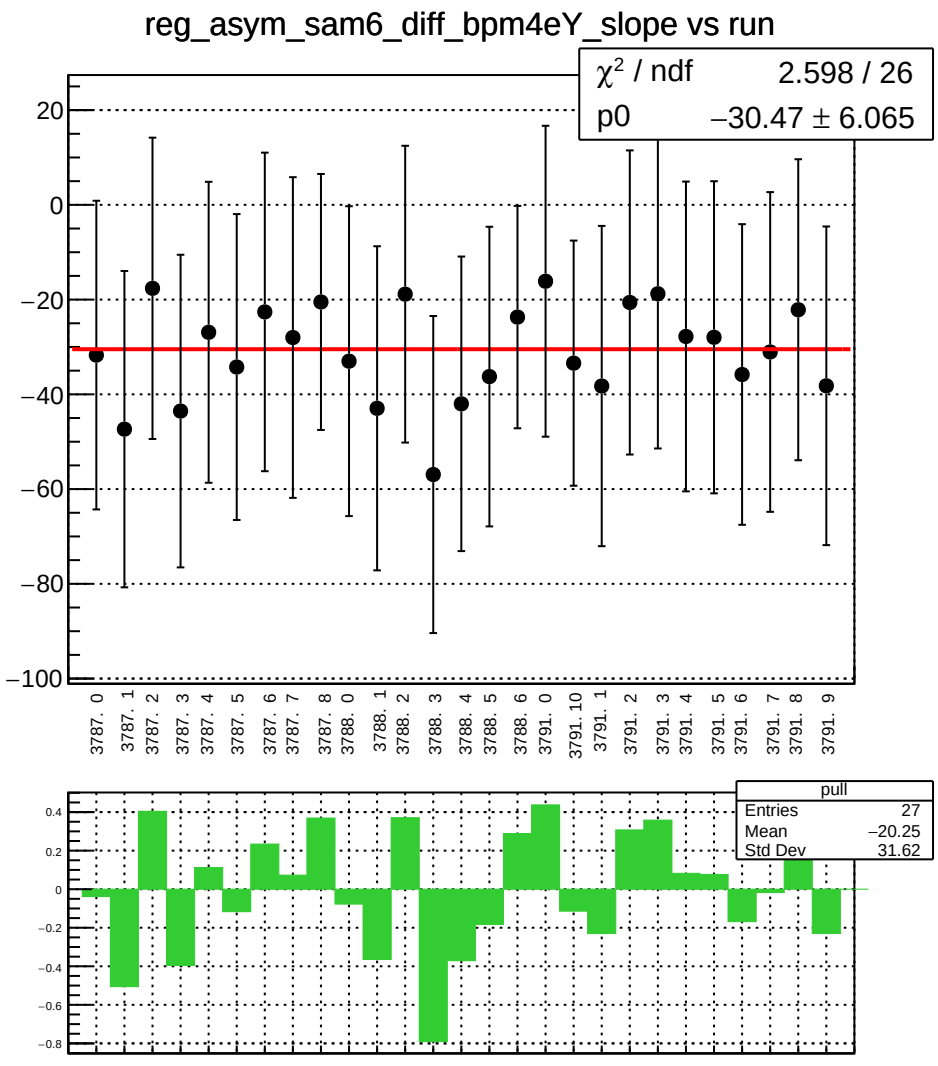

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 6.523 / 26
p0 −3.015 ± 0.6807
pull
Entries 27
Mean −186.2
Std Dev 200.5
pull1D
Entries 27
Mean 0.01383
Std Dev 0.4913

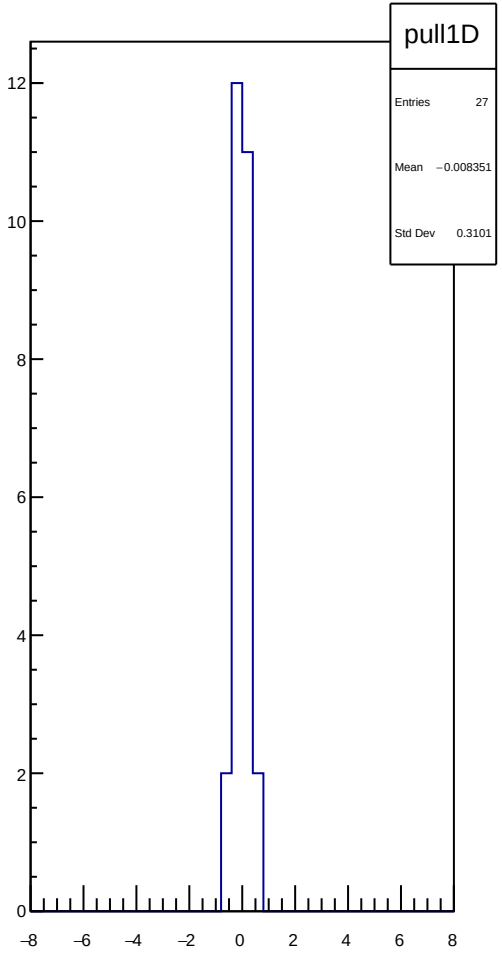

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 2.396 / 26
p0 −16.68 ± 5.029
20
0
−20
−40
−60
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −365
Std Dev 376.7
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 27
Mean 0.002202
Std Dev 0.2979
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

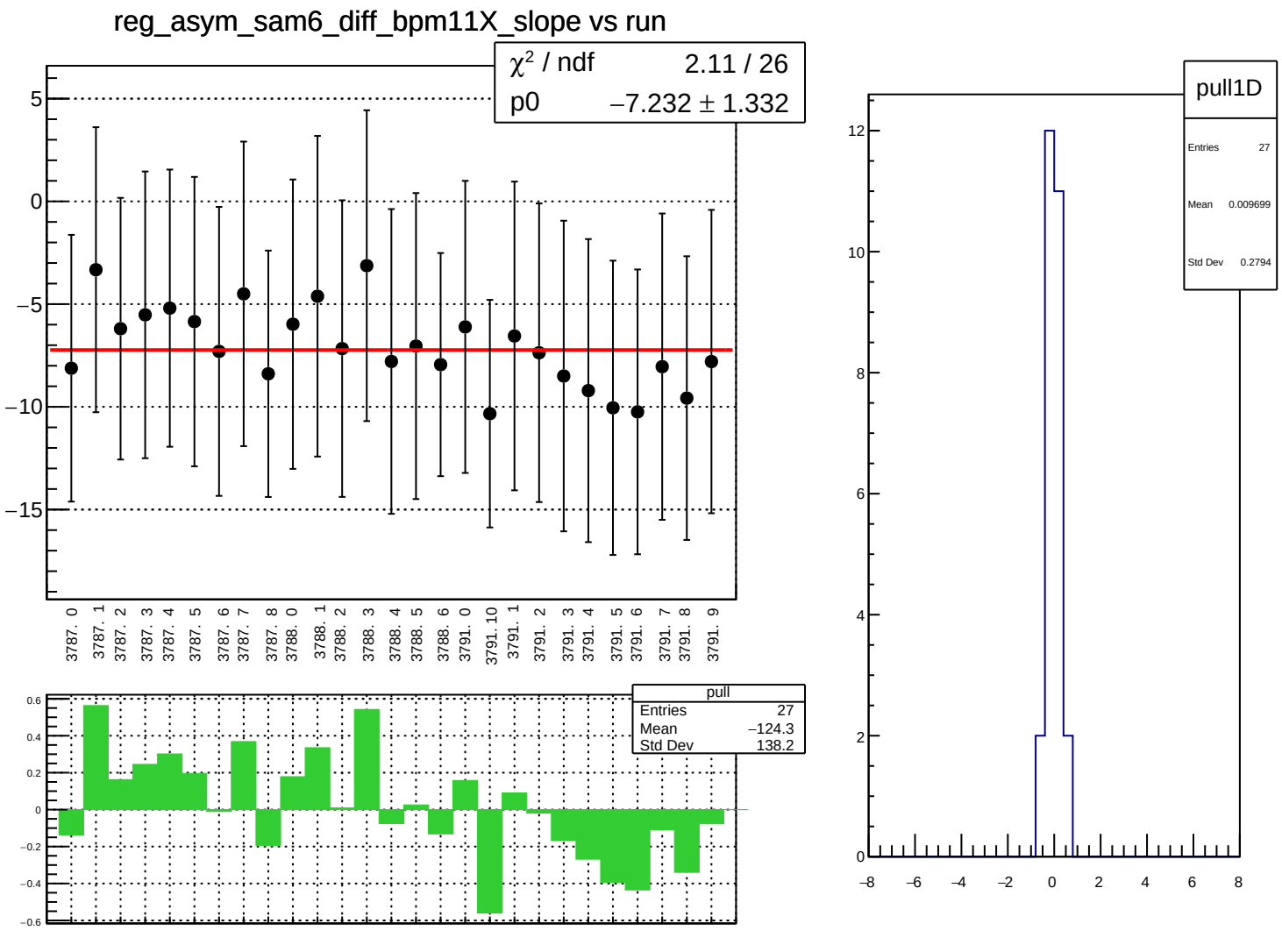

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 2.032 / 26
p0 176.6 ± 3.879
210
200
190
180
170
160
150
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 4.986
Std Dev 12.99
0.6
0.4
0.2
0
−0.2
−0.4

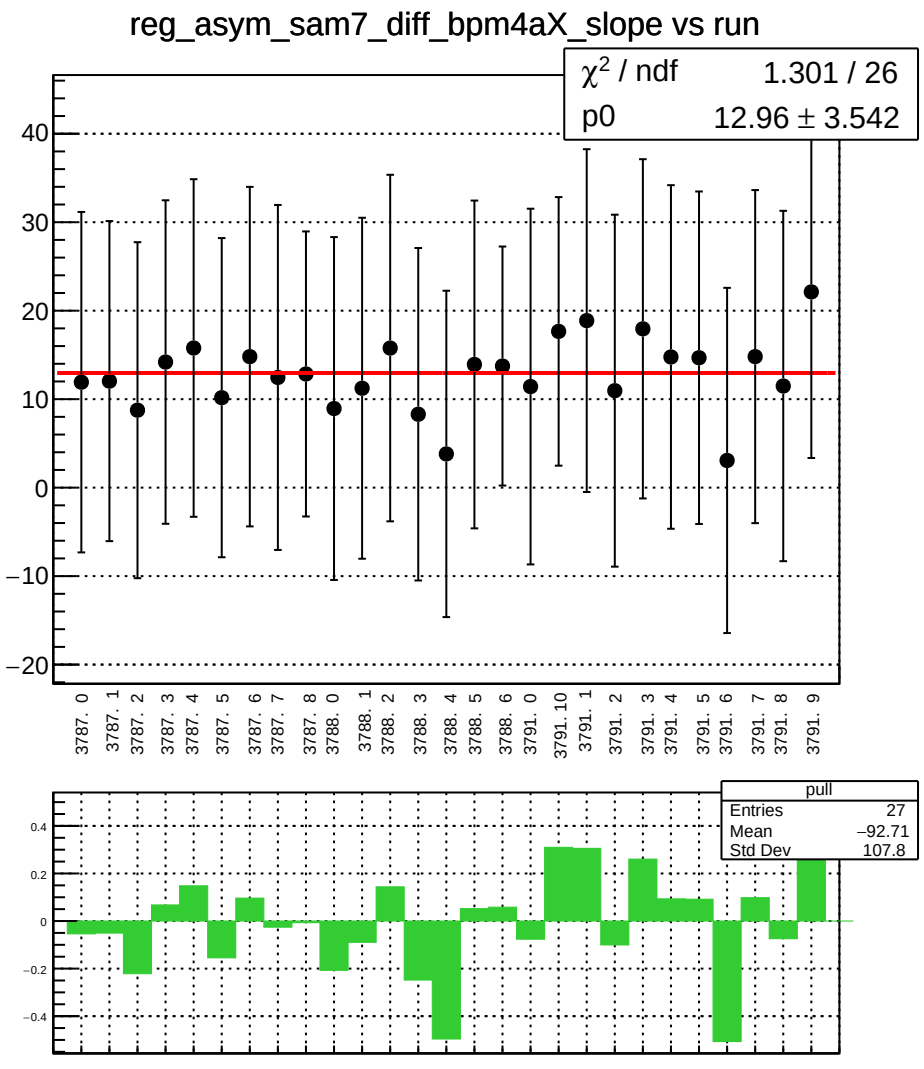

pull1D
Entries 27
Mean 0.005799
Std Dev 0.2742
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

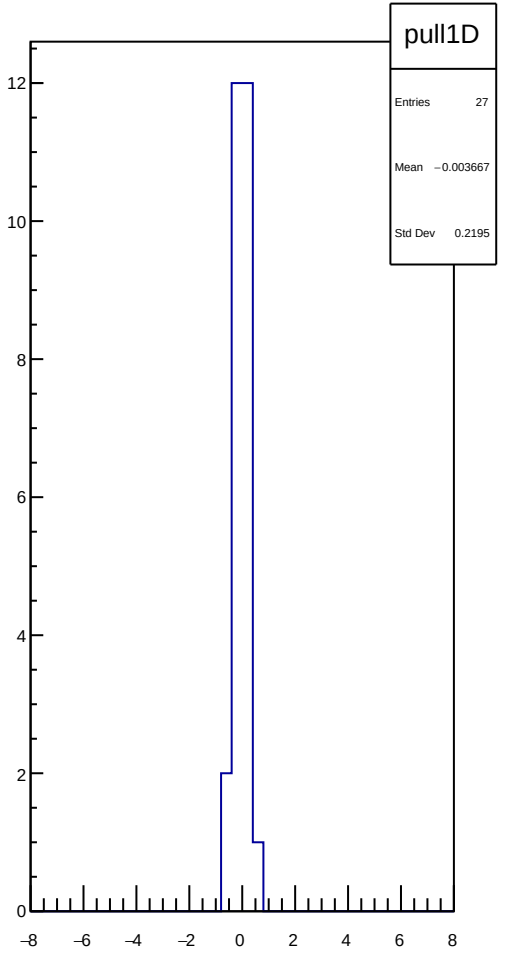

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 10.68 / 26
p0 232.7 ± 0.9562
240
235
230
225
220
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −227.4
Std Dev 237
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean −0.0102
Std Dev 0.6289
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

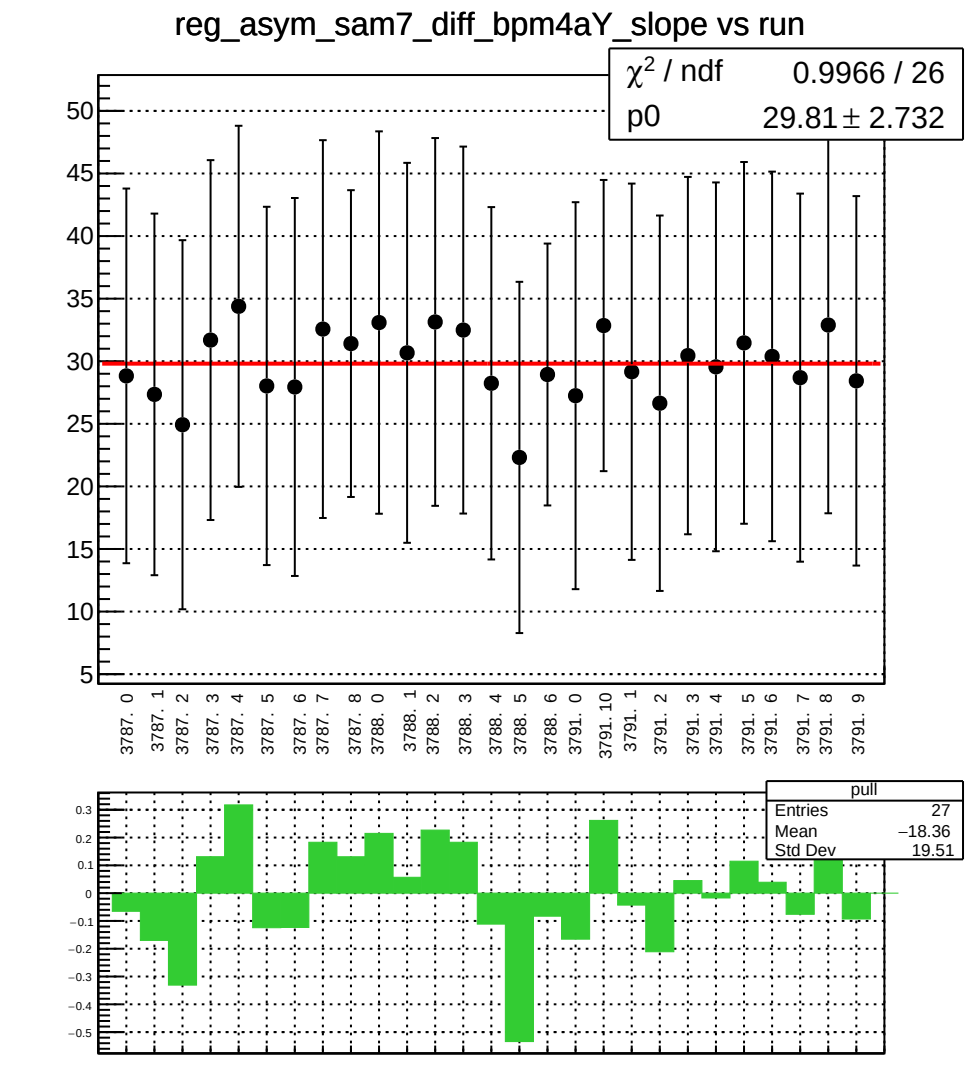

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 2.598 / 26
p0 −30.47 ± 6.065
20
0
−20
−40
−60
−80
−100
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −20.25
Std Dev 31.62
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

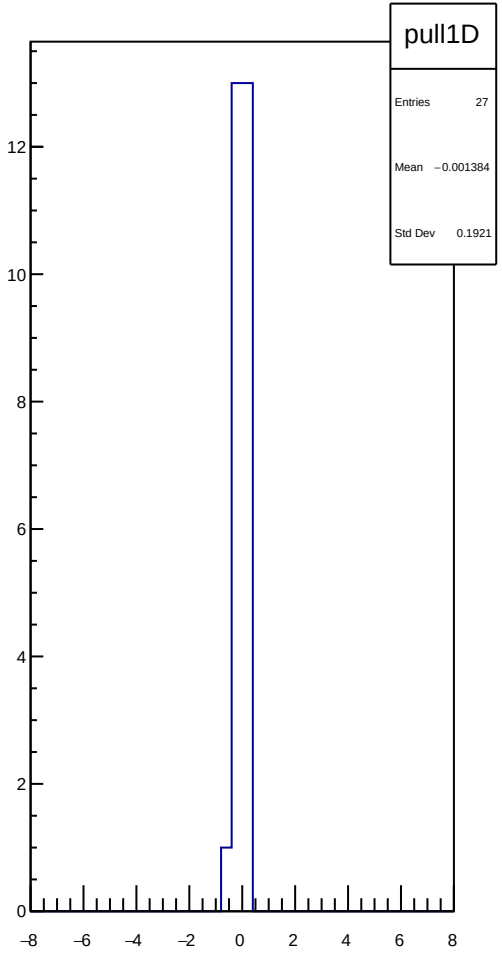

pull1D
Entries 27
Mean −0.008351
Std Dev 0.3101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

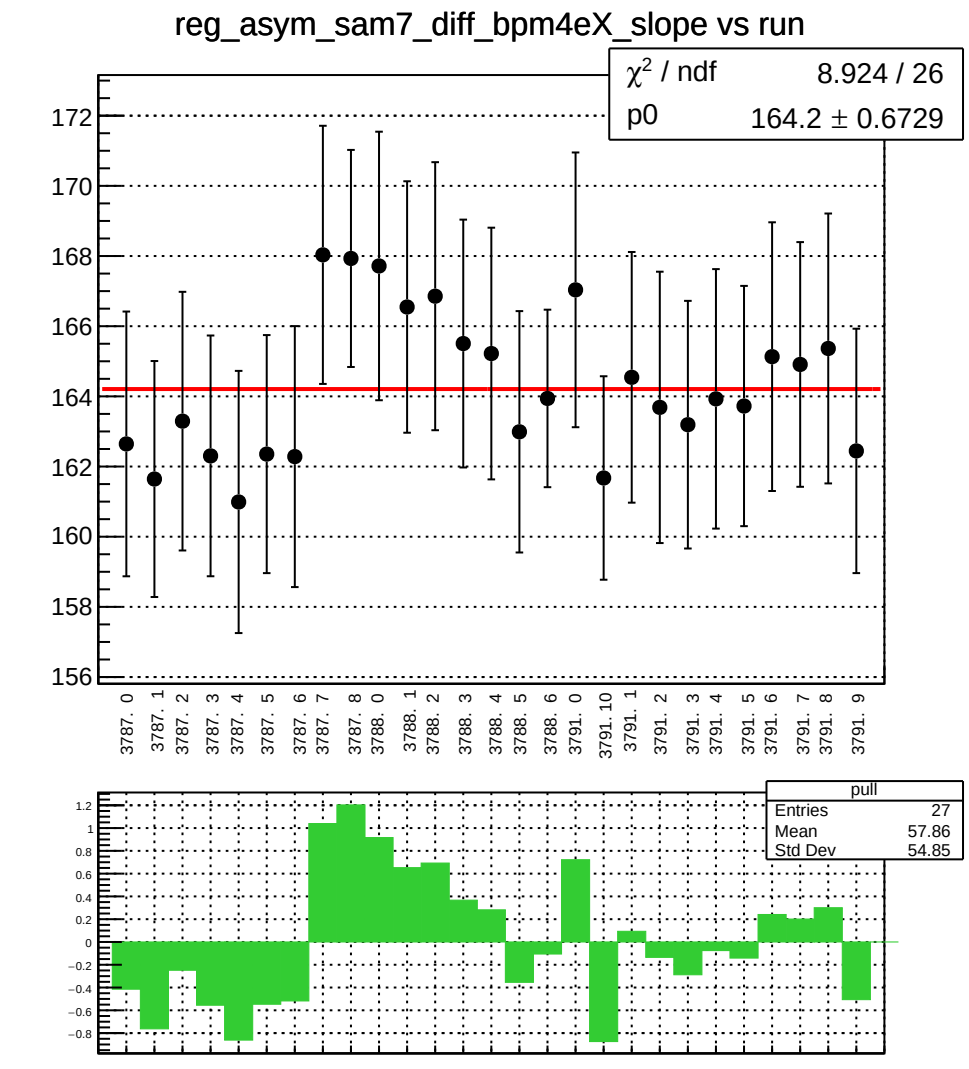

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 2.11 / 26
p0 −7.232 ± 1.332
5
0
−5
−10
−15
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −124.3
Std Dev 138.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 27
Mean 0.009699
Std Dev 0.2794
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

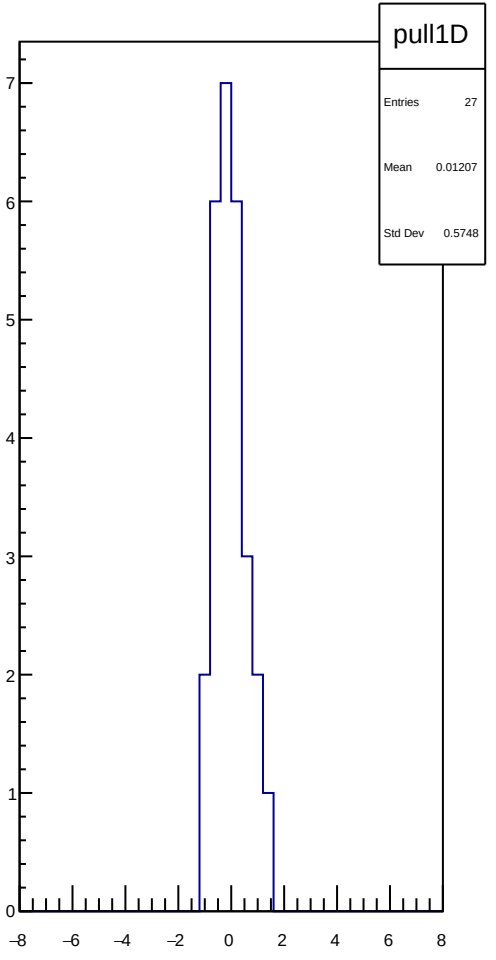

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 1.301 / 26
p0 12.96 ± 3.542
40
30
20
10
0
−10
−20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −92.71
Std Dev 107.8
0.4
0.2
0
−0.2
−0.4

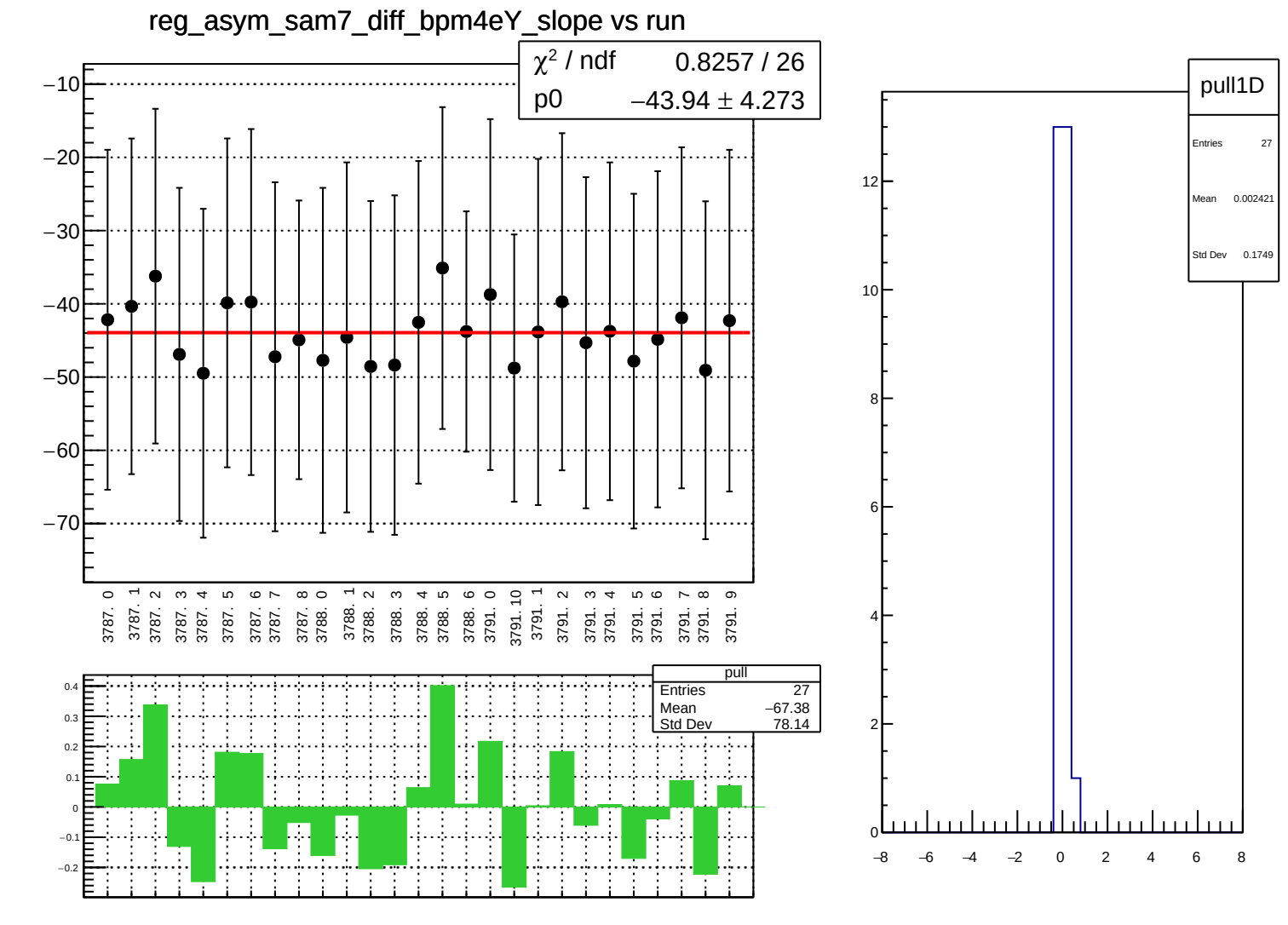

pull1D
Entries 27
Mean −0.003667
Std Dev 0.2195
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

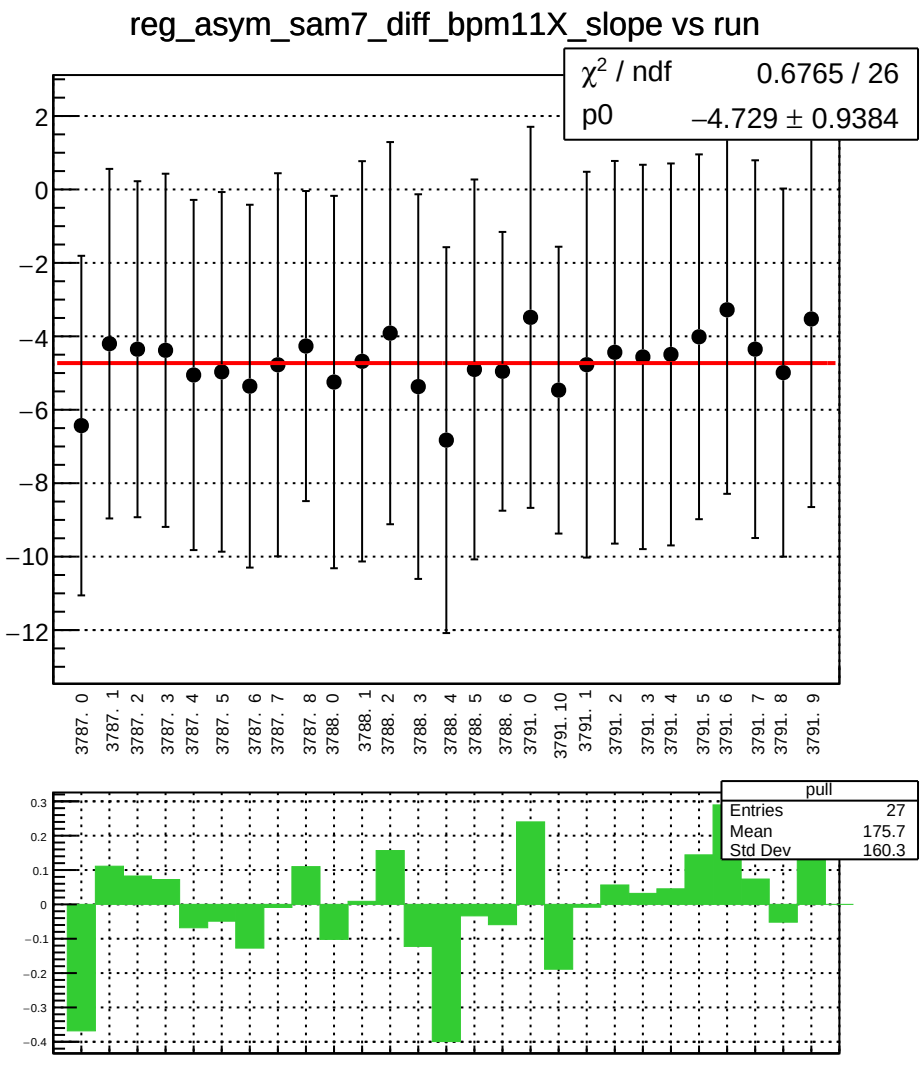

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 0.9966 / 26
p0 29.81 ± 2.732
50
45
40
35
30
25
20
15
10
5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −18.36
Std Dev 19.51
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

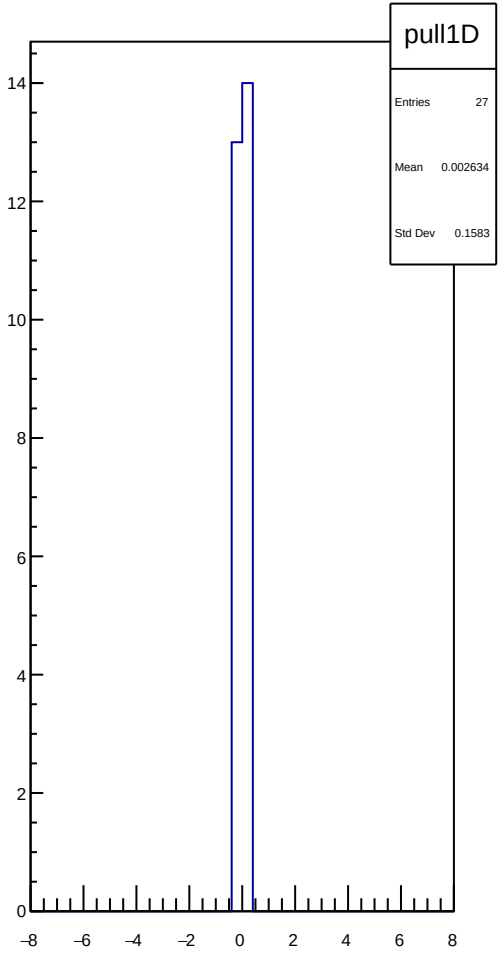

pull1D
Entries 27
Mean −0.001384
Std Dev 0.1921
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

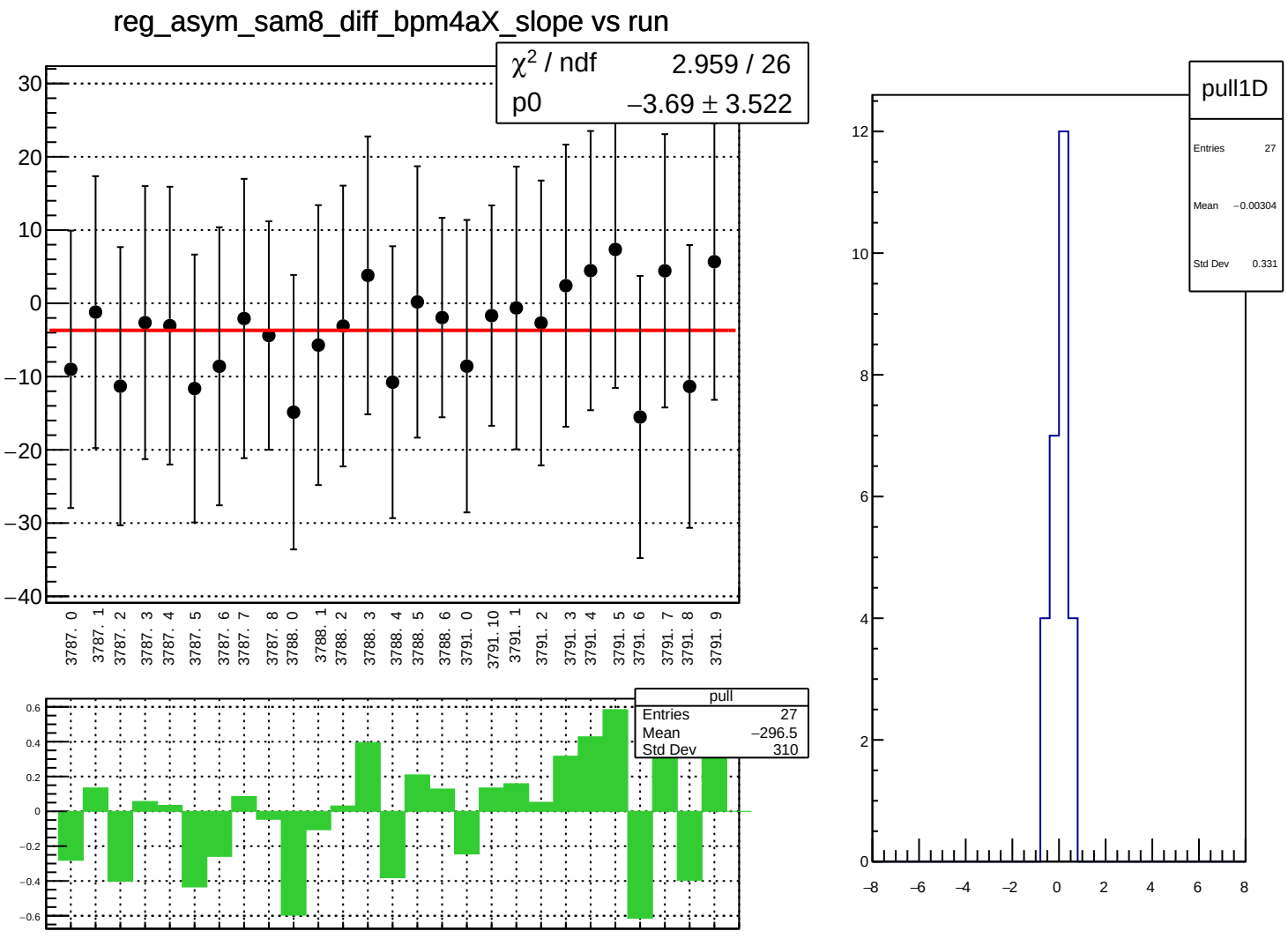

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 8.924 / 26
p0 164.2 ± 0.6729
172
170
168
166
164
162
160
158
156
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 57.86
Std Dev 54.85
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

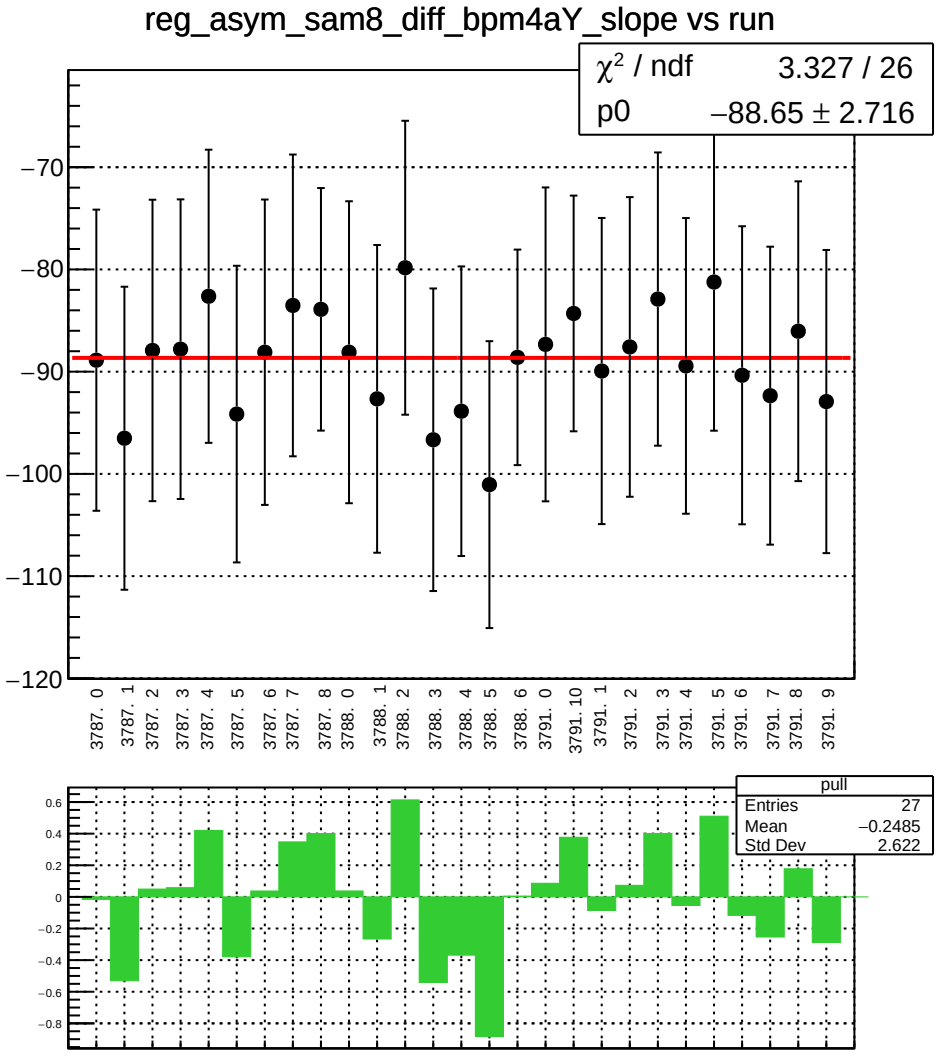

pull1D
Entries 27
Mean 0.01207
Std Dev 0.5748
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

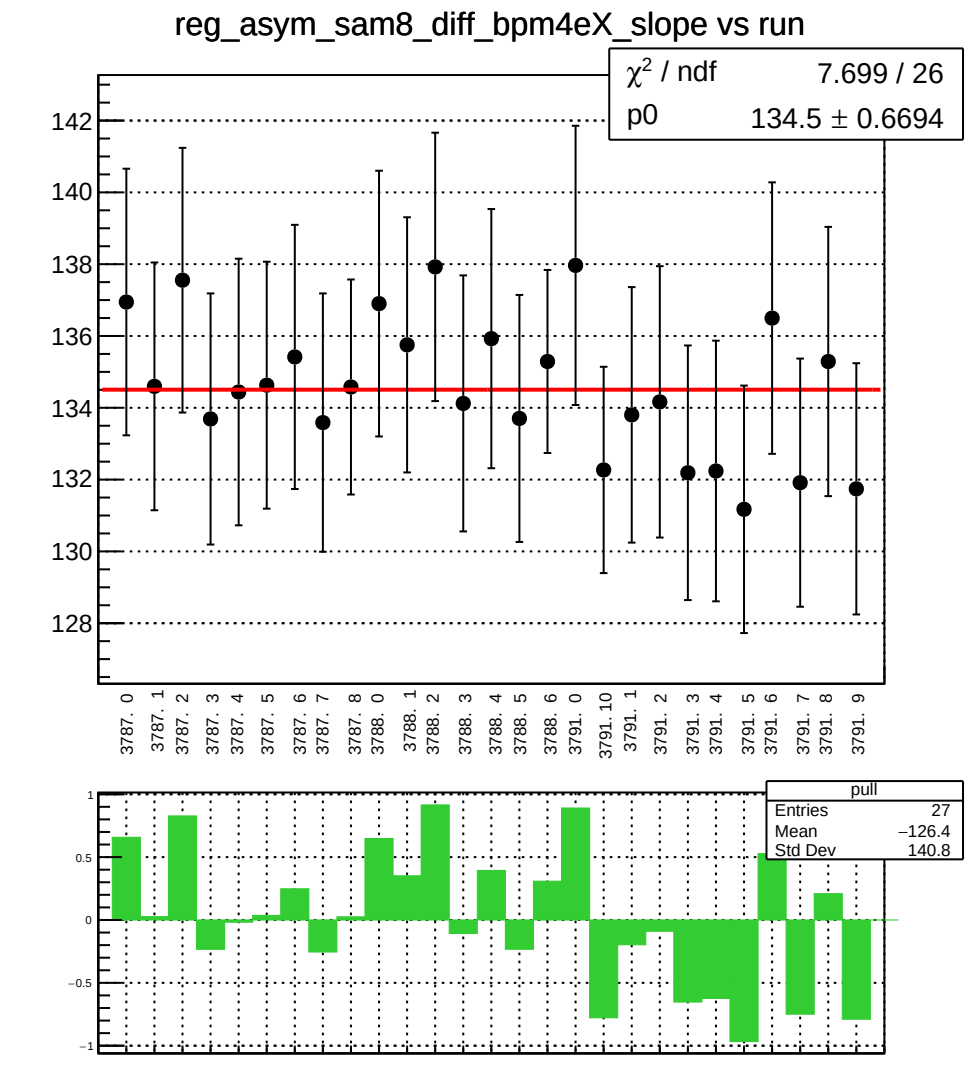

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 0.8257 / 26
p0 −43.94 ± 4.273
−10
−20
−30
−40
−50
−60
−70
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −67.38
Std Dev 78.14
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 27
Mean 0.002421
Std Dev 0.1749
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

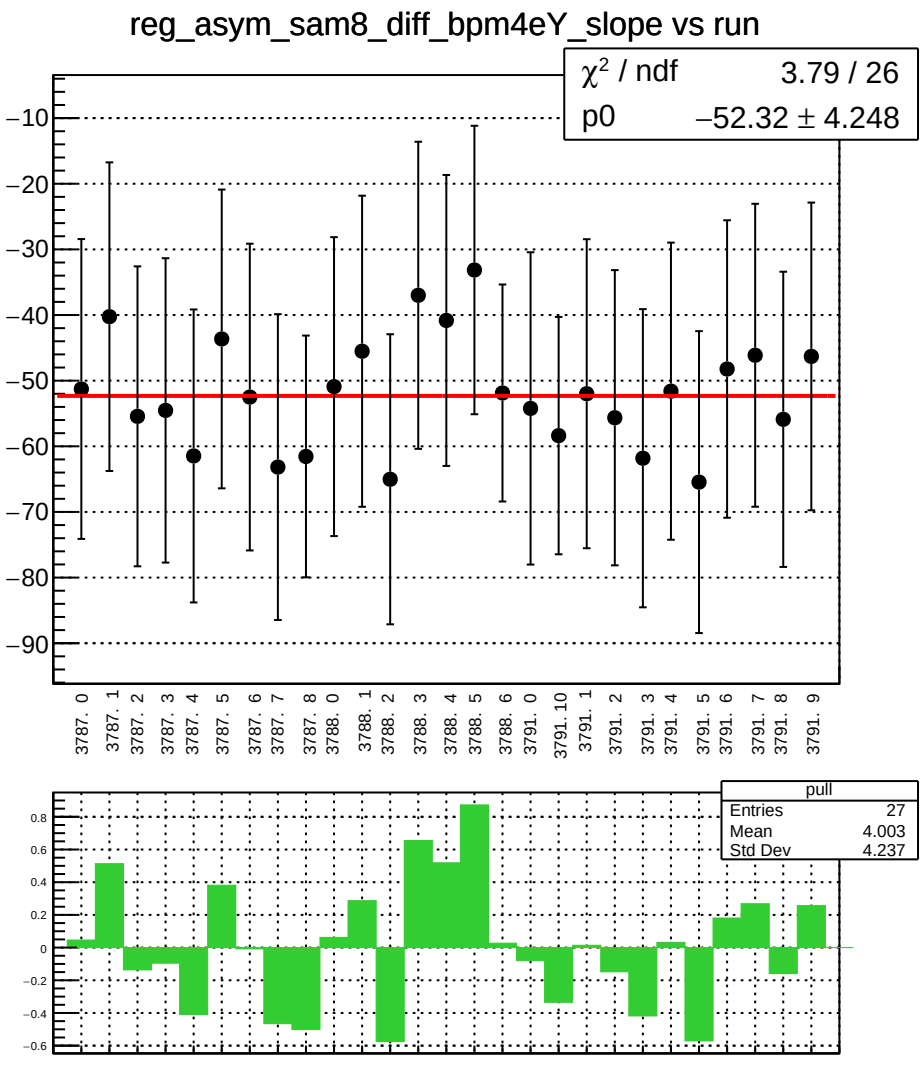

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 0.6765 / 26
p0 −4.729 ± 0.9384
2
0
−2
−4
−6
−8
−10
−12
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 175.7
Std Dev 160.3
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

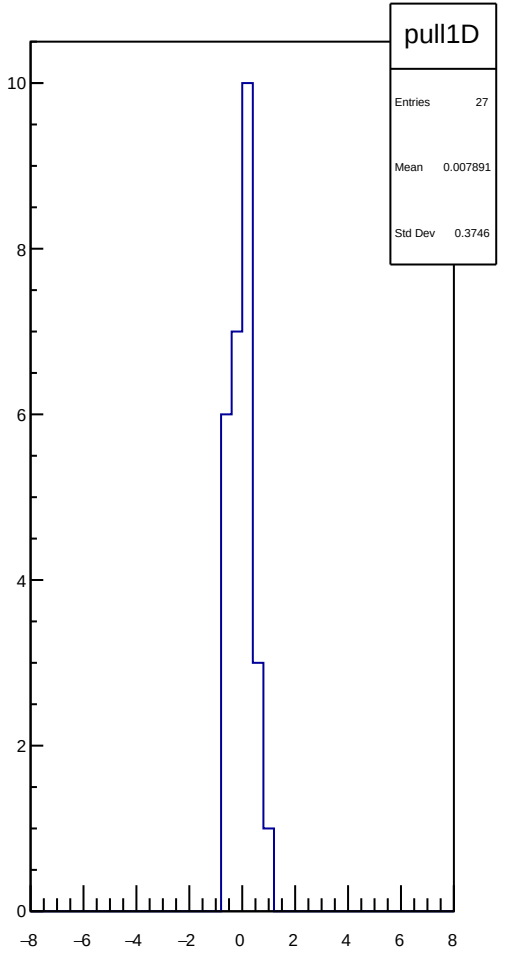

pull1D
Entries 27
Mean 0.002634
Std Dev 0.1583
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

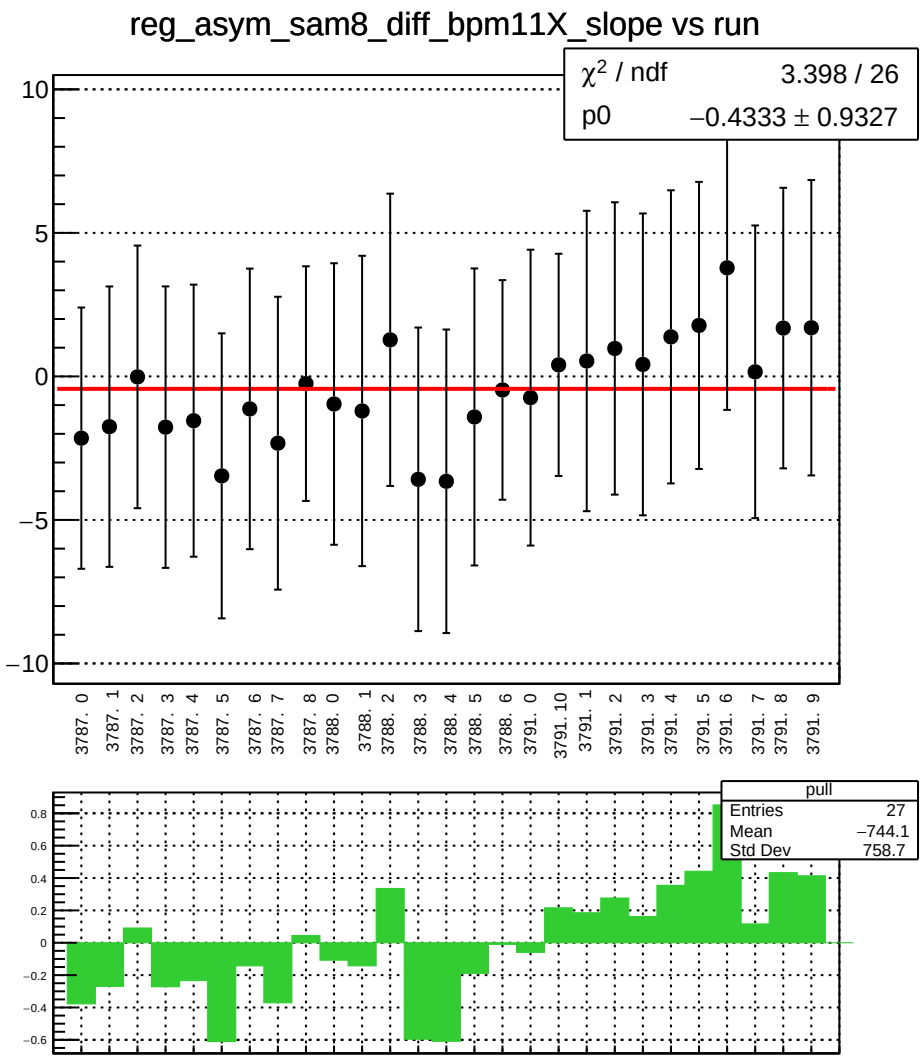

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 2.959 / 26
p0 −3.69 ± 3.522
30
20
10
0
−10
−20
−30
−40
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −296.5
Std Dev 310
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 27
Mean −0.00304
Std Dev 0.331
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

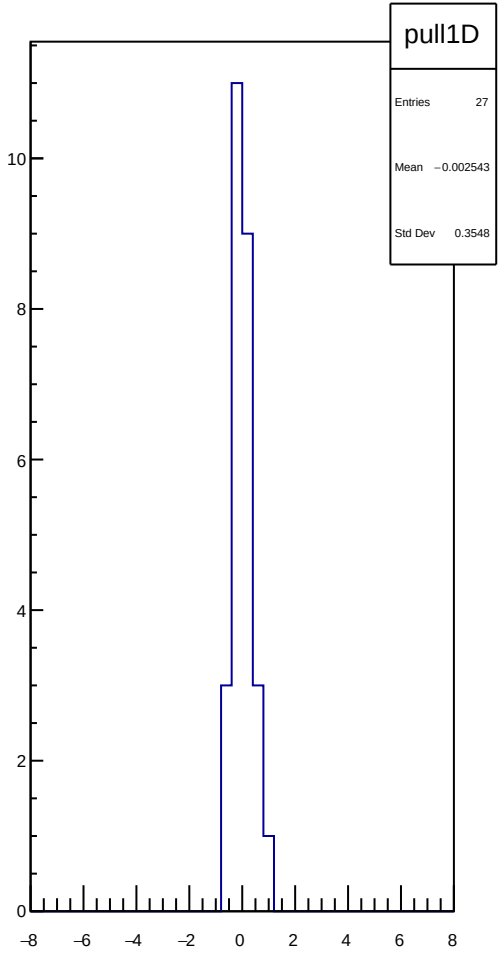

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 3.327 / 26
p0 −88.65 ± 2.716
−70
−80
−90
−100
−110
−120
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −0.2485
Std Dev 2.622
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 27
Mean −0.007011
Std Dev 0.351
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

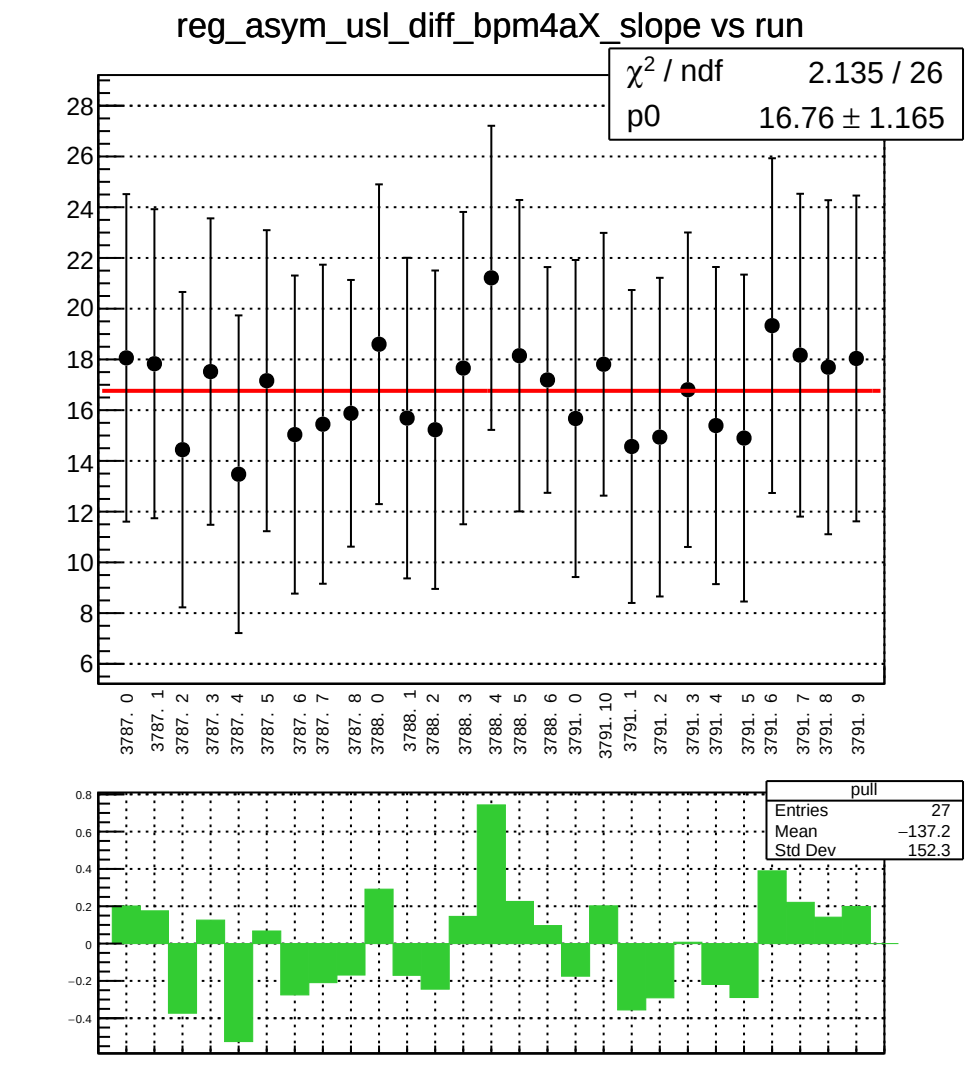

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 7.699 / 26
p0 134.5 ± 0.6694
142
140
138
136
134
132
130
128
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −126.4
Std Dev 140.8
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean 0.01377
Std Dev 0.5338
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

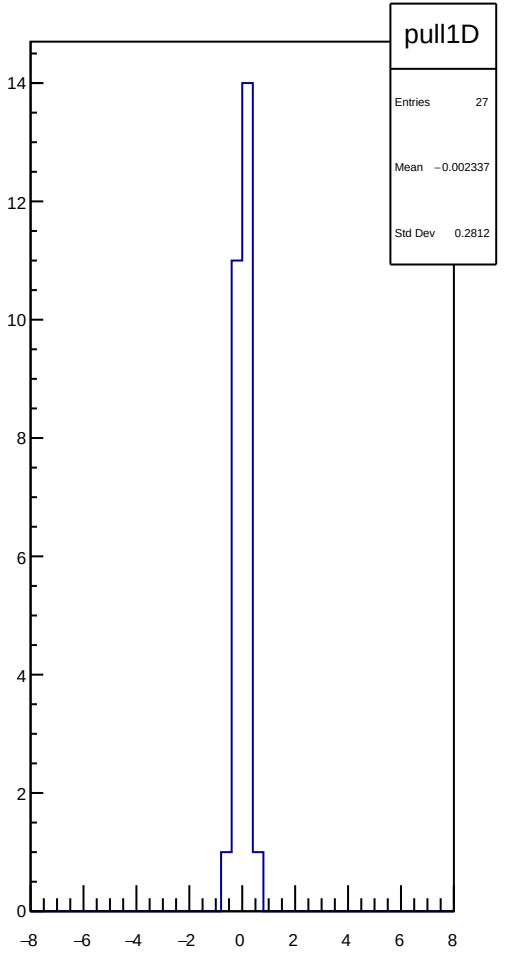

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 3.79 / 26
p0 −52.32 ± 4.248
−10
−20
−30
−40
−50
−60
−70
−80
−90
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 4.003
Std Dev 4.237
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

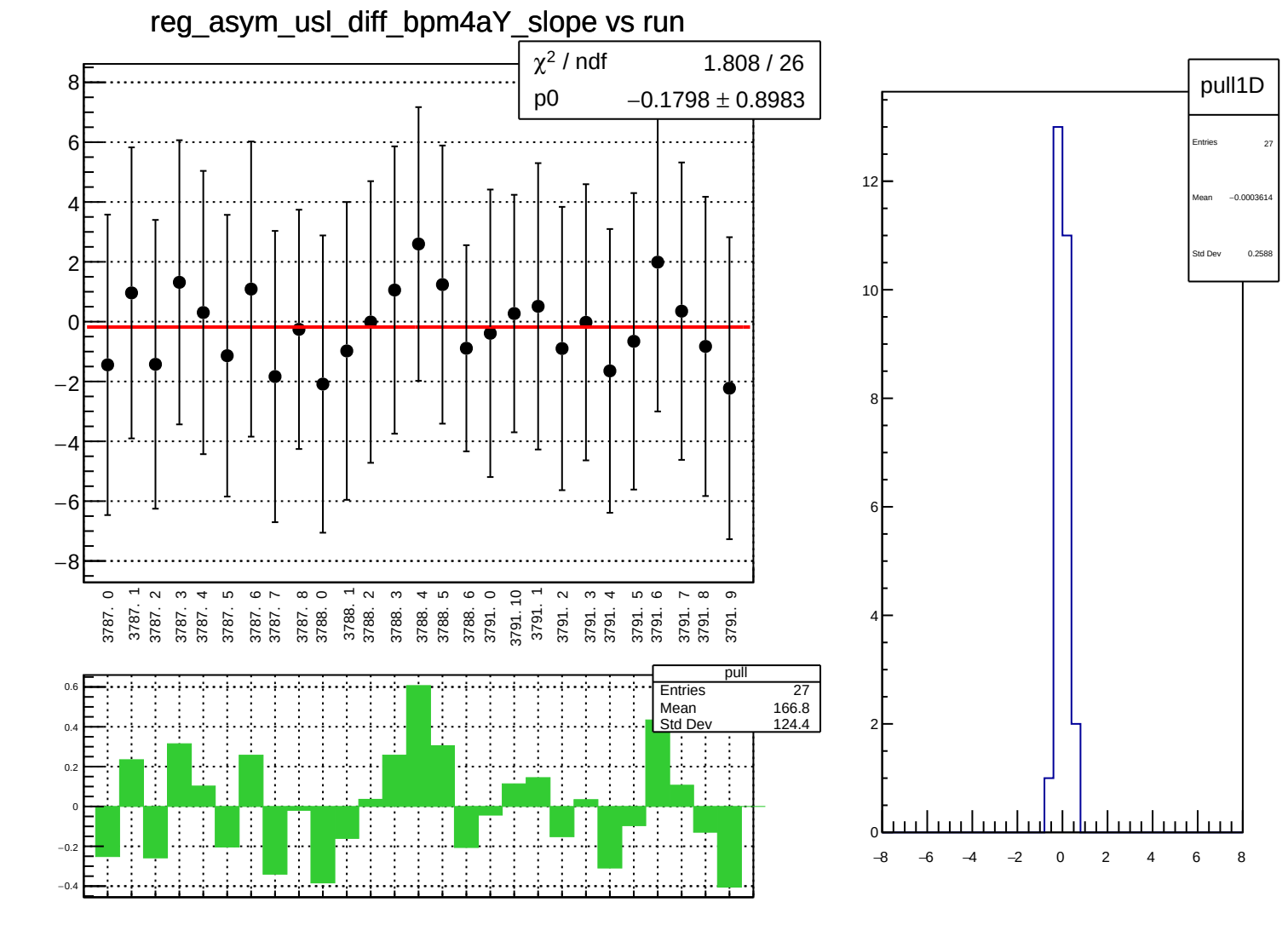

pull1D
Entries 27
Mean 0.007891
Std Dev 0.3746
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

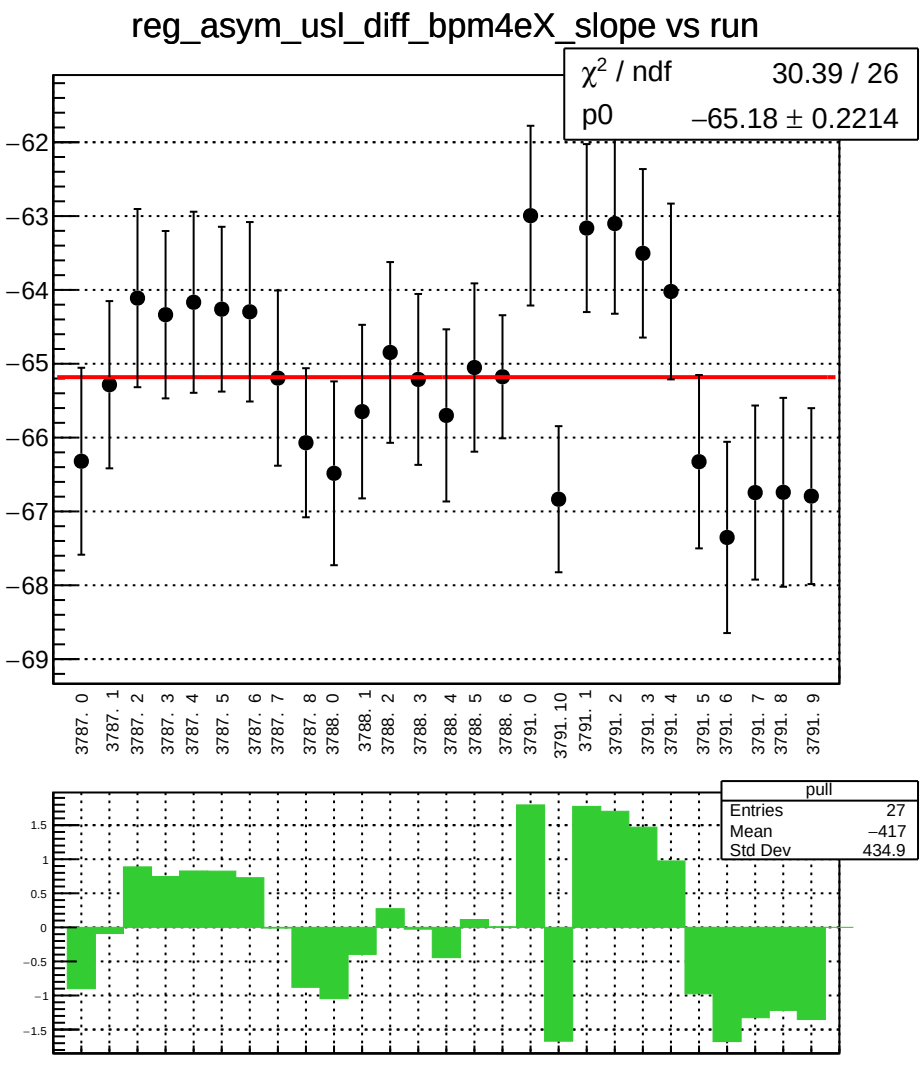

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 3.398 / 26
p0 −0.4333 ± 0.9327
10
5
0
−5
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −744.1
Std Dev 758.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

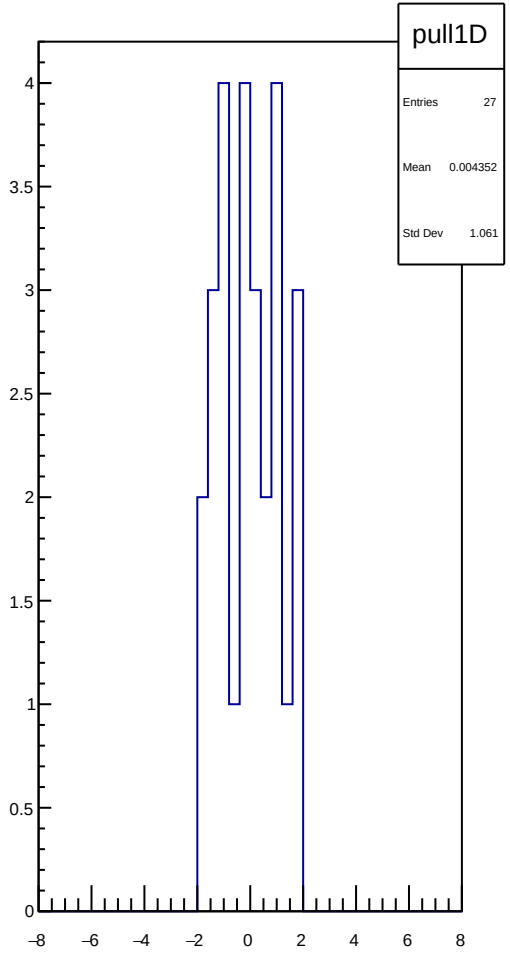

pull1D
Entries 27
Mean −0.002543
Std Dev 0.3548
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

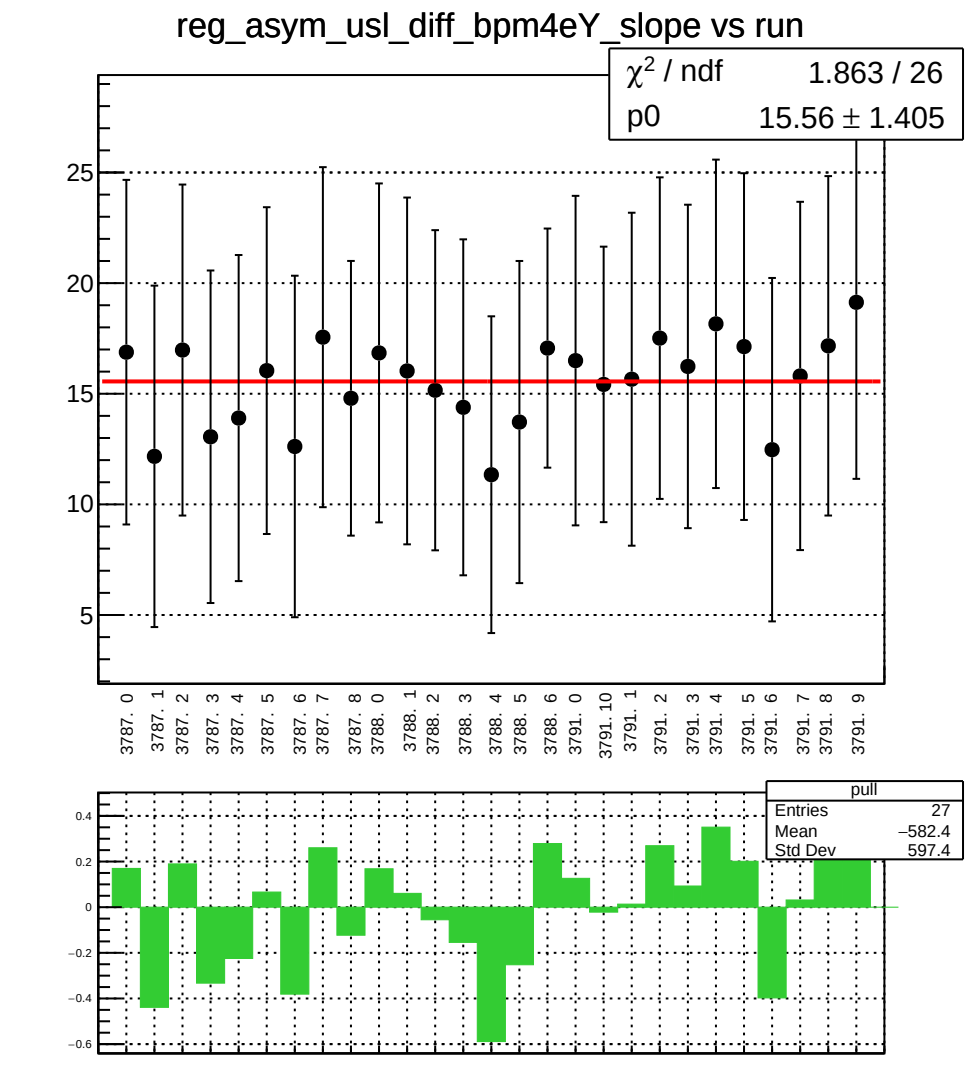

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 2.135 / 26
p0 16.76 ± 1.165
pull
Entries 27
Mean −137.2
Std Dev 152.3
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

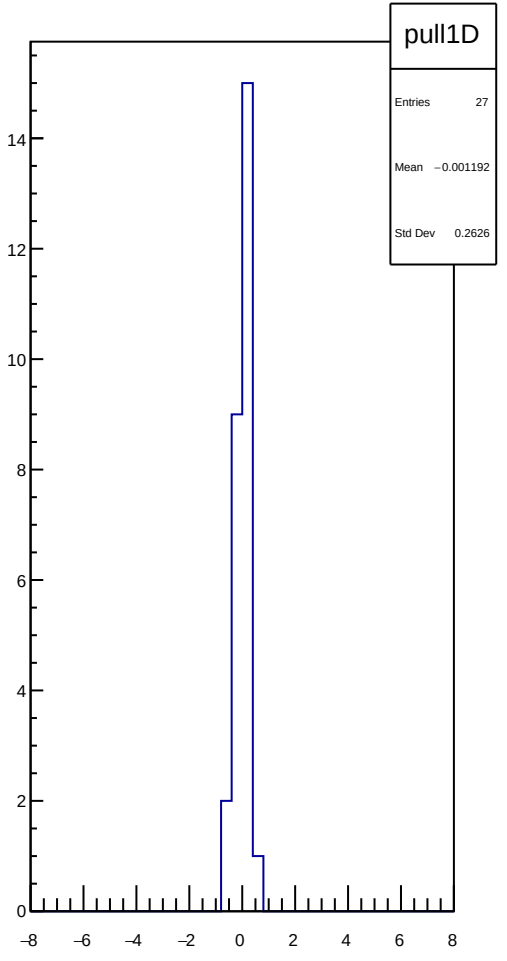

pull1D
Entries 27
Mean −0.002337
Std Dev 0.2812

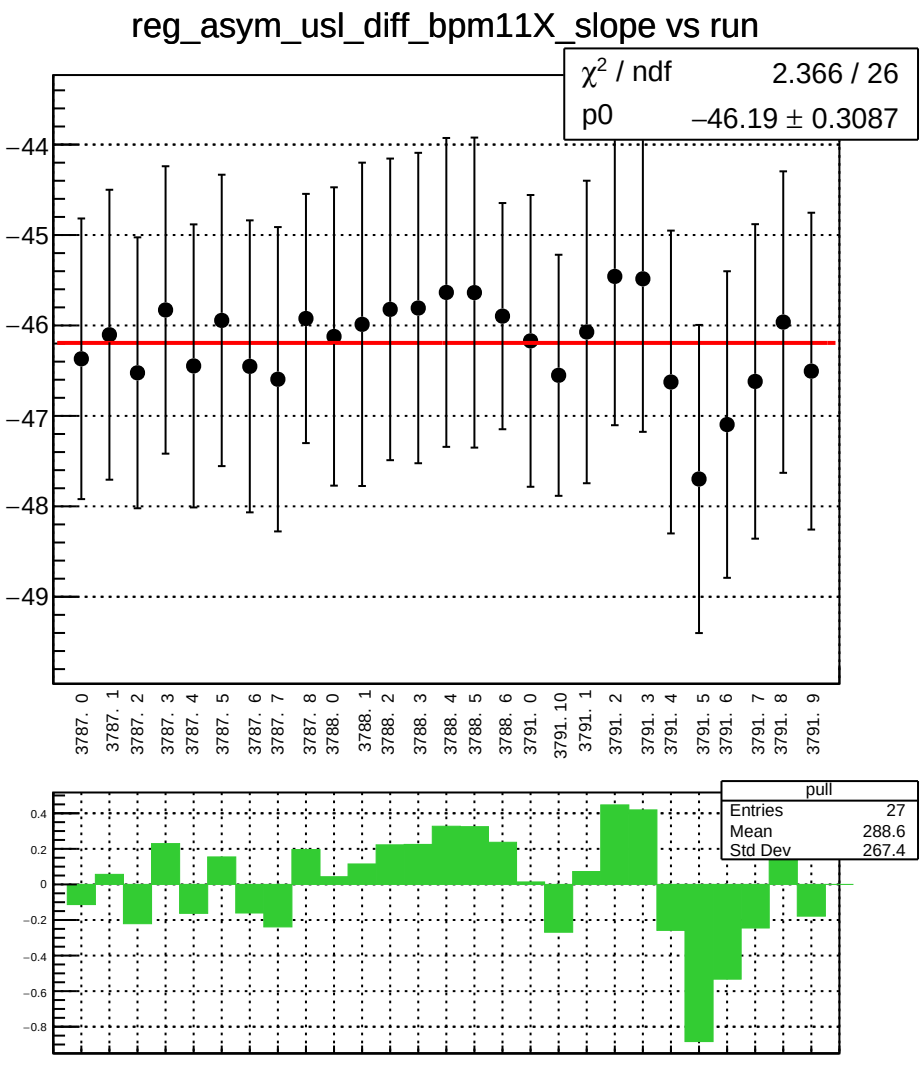

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 1.808 / 26
p0 −0.1798 ± 0.8983
8
6
4
2
0
−2
−4
−6
−8
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 166.8
Std Dev 124.4
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 27
Mean −0.0003614
Std Dev 0.2588
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

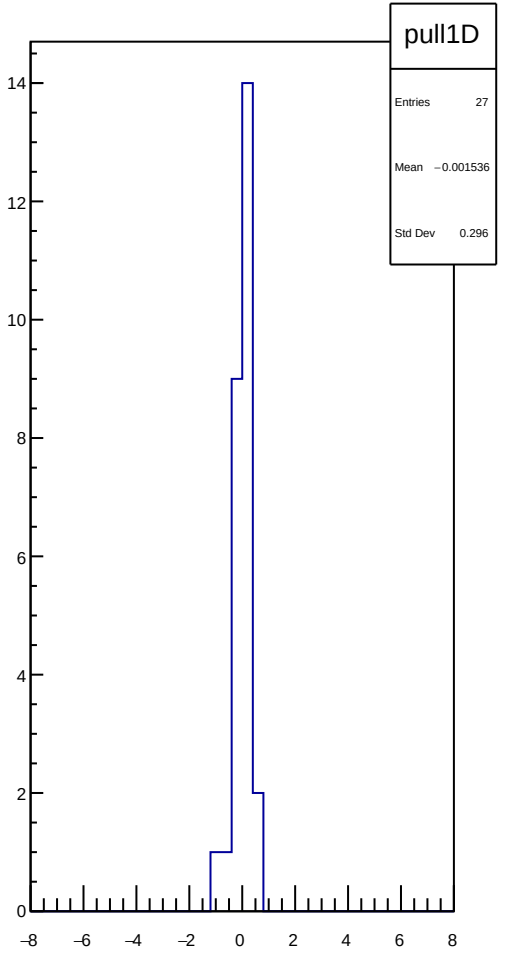

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 30.39 / 26
p0 −65.18 ± 0.2214
pull
Entries 27
Mean −417
Std Dev 434.9

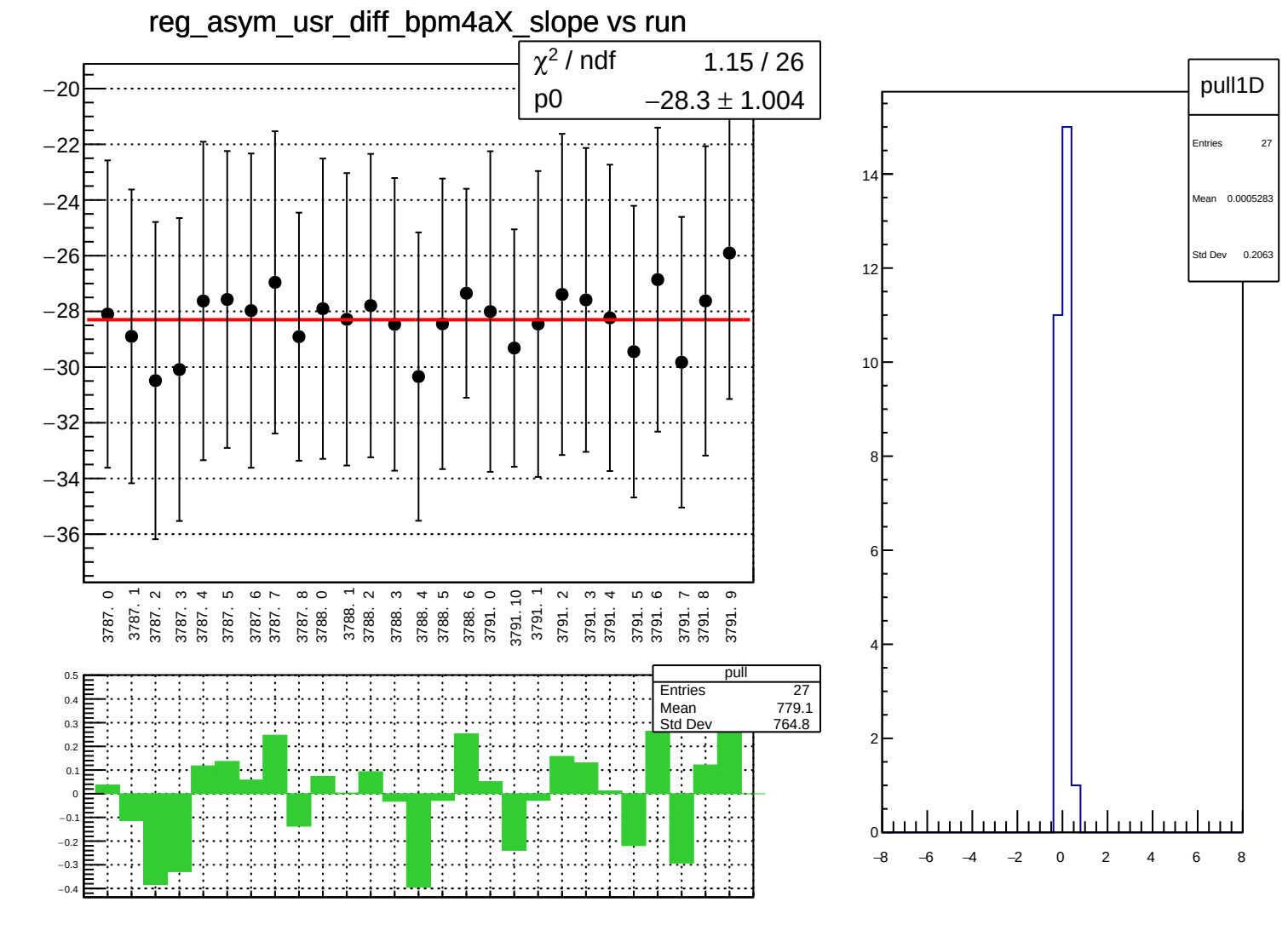

pull1D
Entries 27
Mean 0.004352
Std Dev 1.061

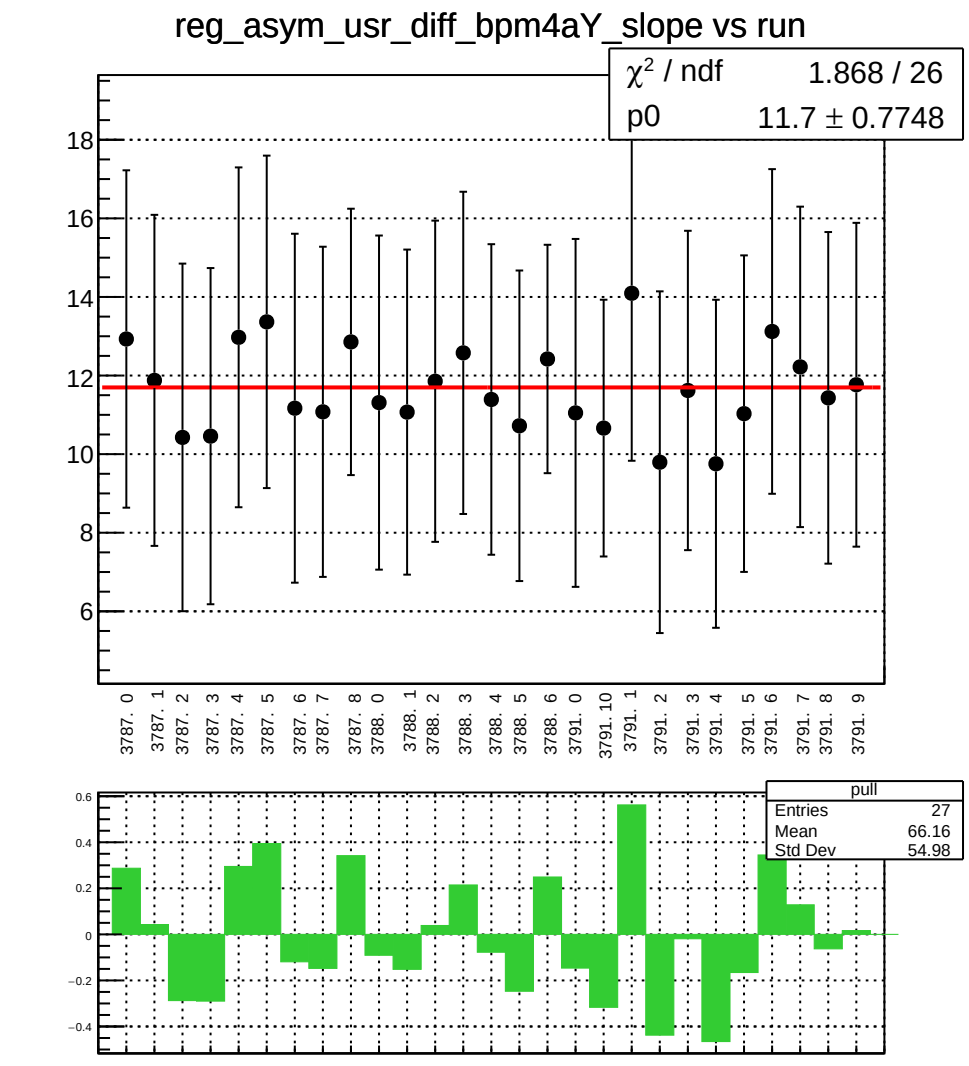

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 1.863 / 26
p0 15.56 ± 1.405
25
20
15
10
5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −582.4
Std Dev 597.4
0.4
0.2
0
−0.2
−0.4
−0.6


pull1D
Entries 27
Mean −0.001192
Std Dev 0.2626
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 2.366 / 26
p0 −46.19 ± 0.3087
−44
−45
−46
−47
−48
−49
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 288.6
Std Dev 267.4
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8


pull1D
Entries 27
Mean −0.001536
Std Dev 0.296
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 1.15 / 26
p0 −28.3 ± 1.004
−20
−22
−24
−26
−28
−30
−32
−34
−36
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 779.1
Std Dev 764.8
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 27
Mean 0.0005283
Std Dev 0.2063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 1.868 / 26
p0 11.7 ± 0.7748
18
16
14
12
10
8
6
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
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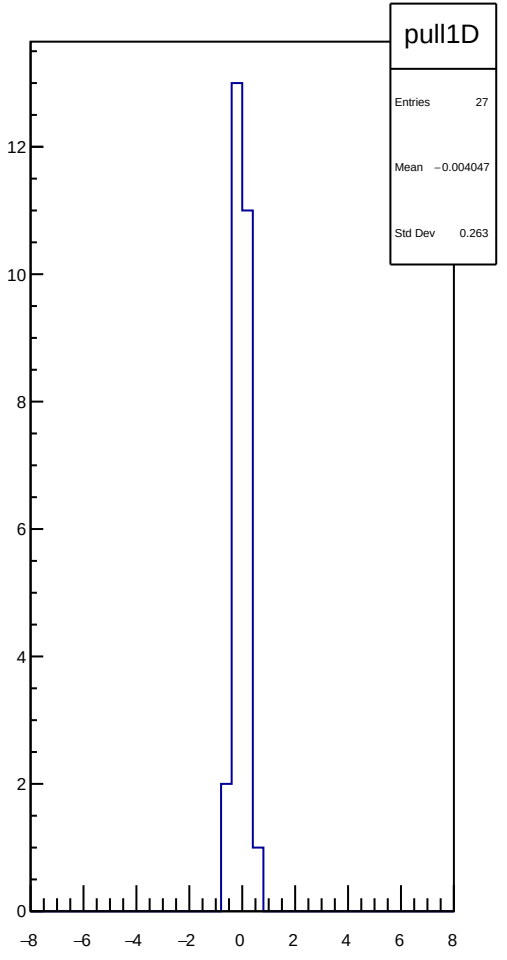
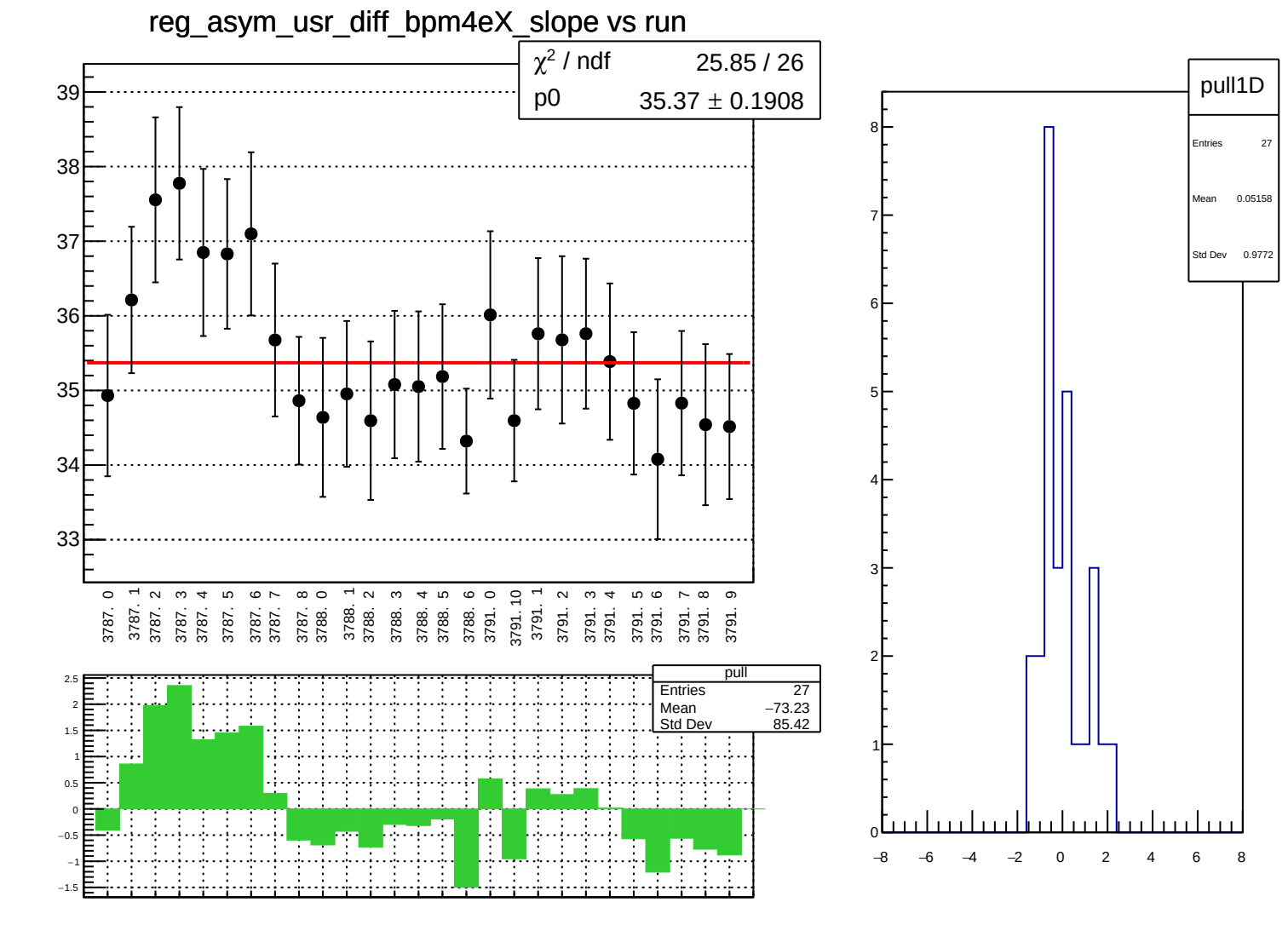
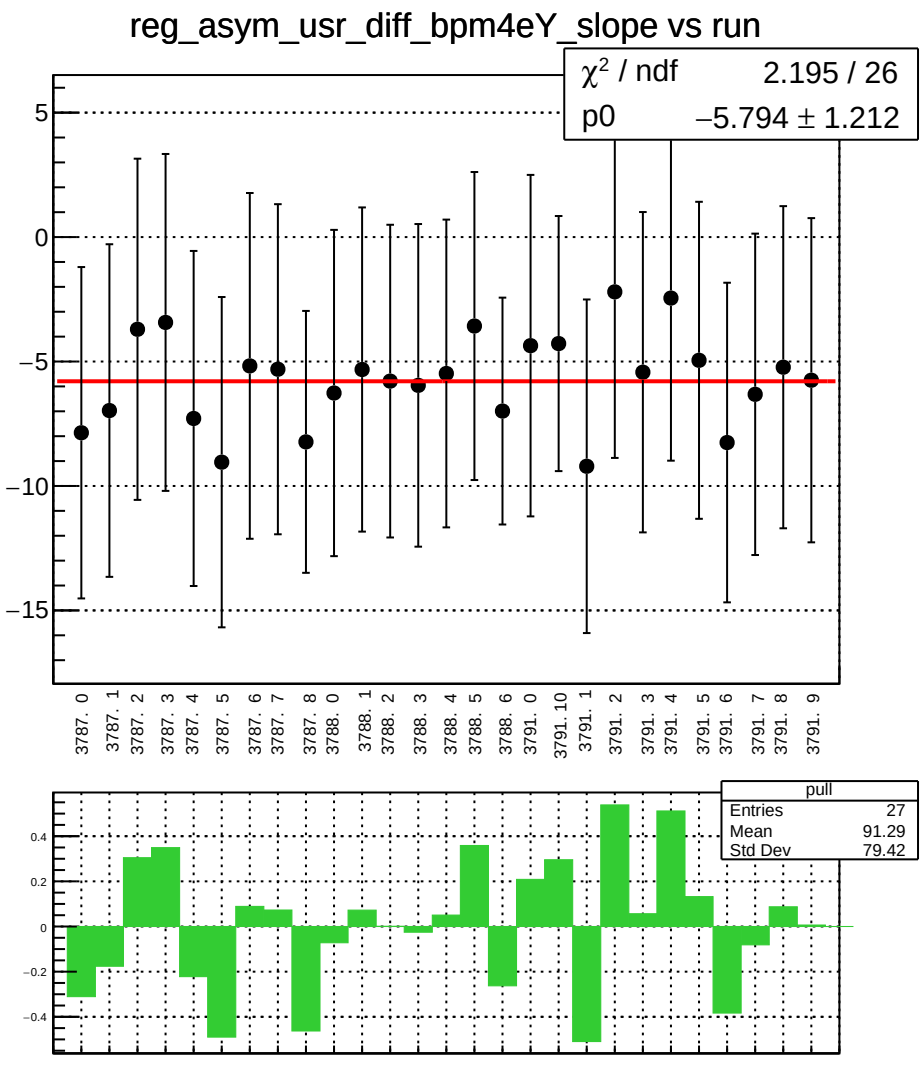
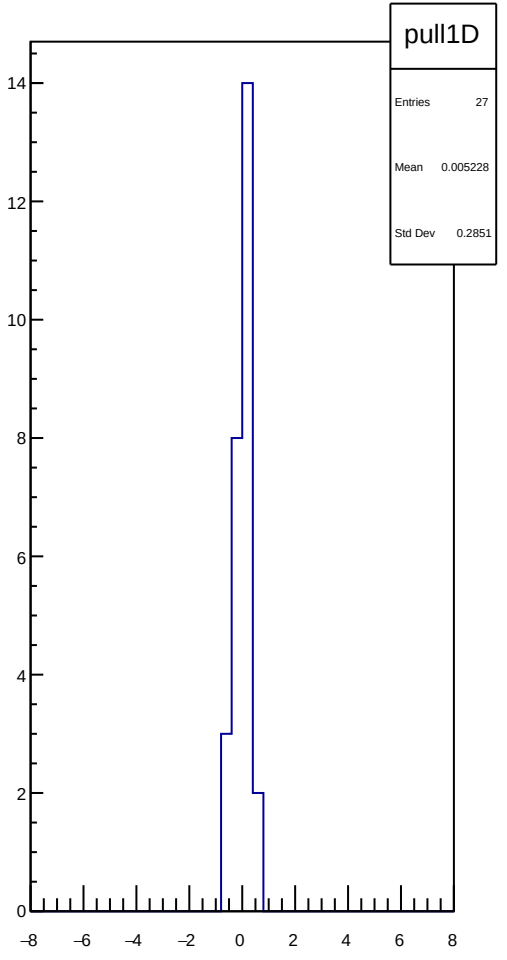
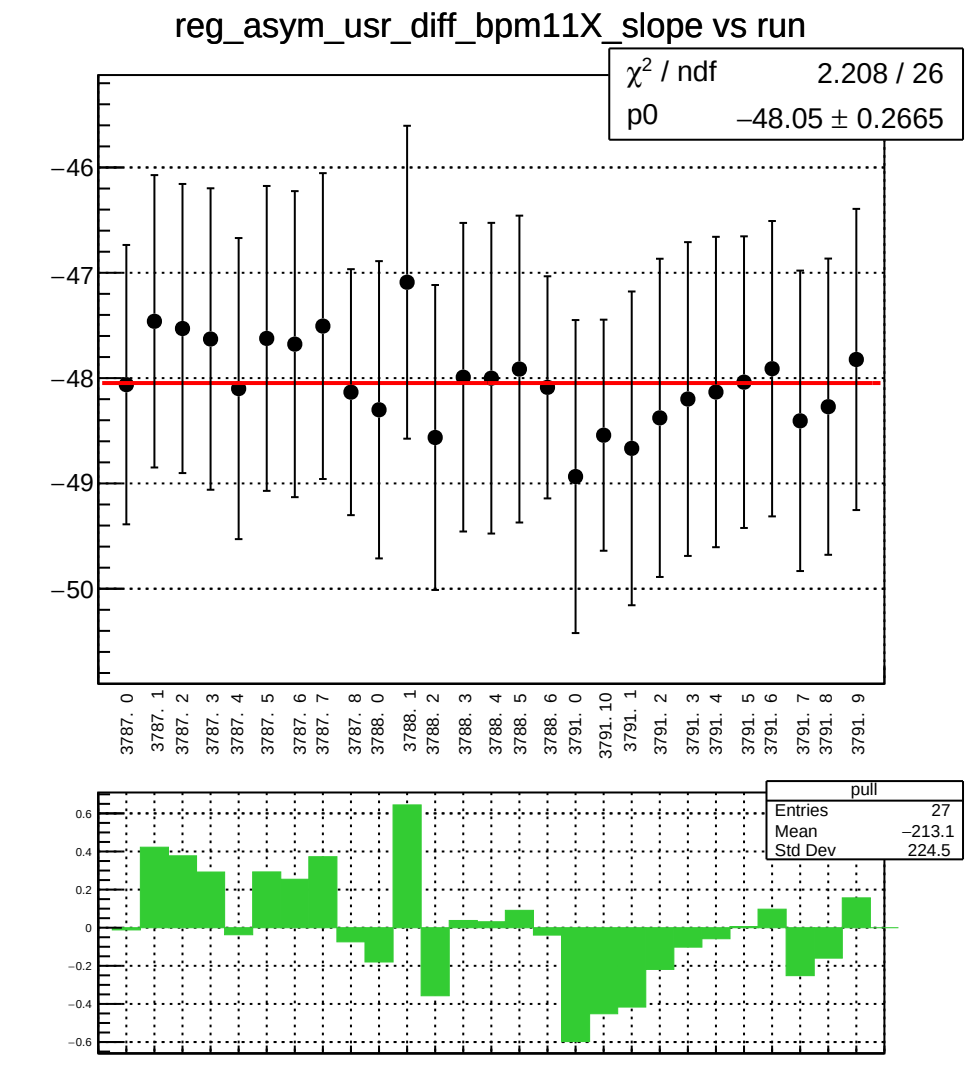
3791. 9
pull
Entries 27
Mean 66.16
Std Dev 54.98
0.6
0.4
0.2
0
−0.2
−0.4

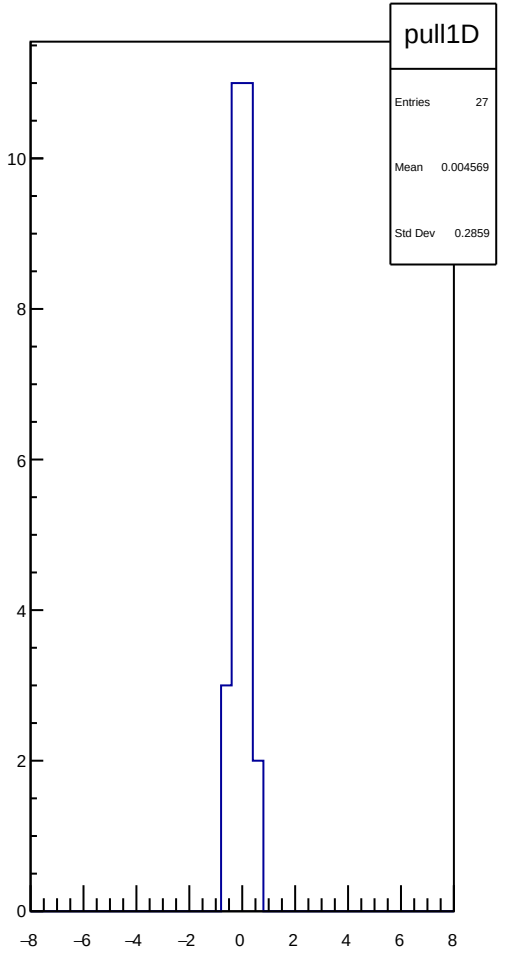

pull1D
Entries 27
Mean −0.004047
Std Dev 0.263
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

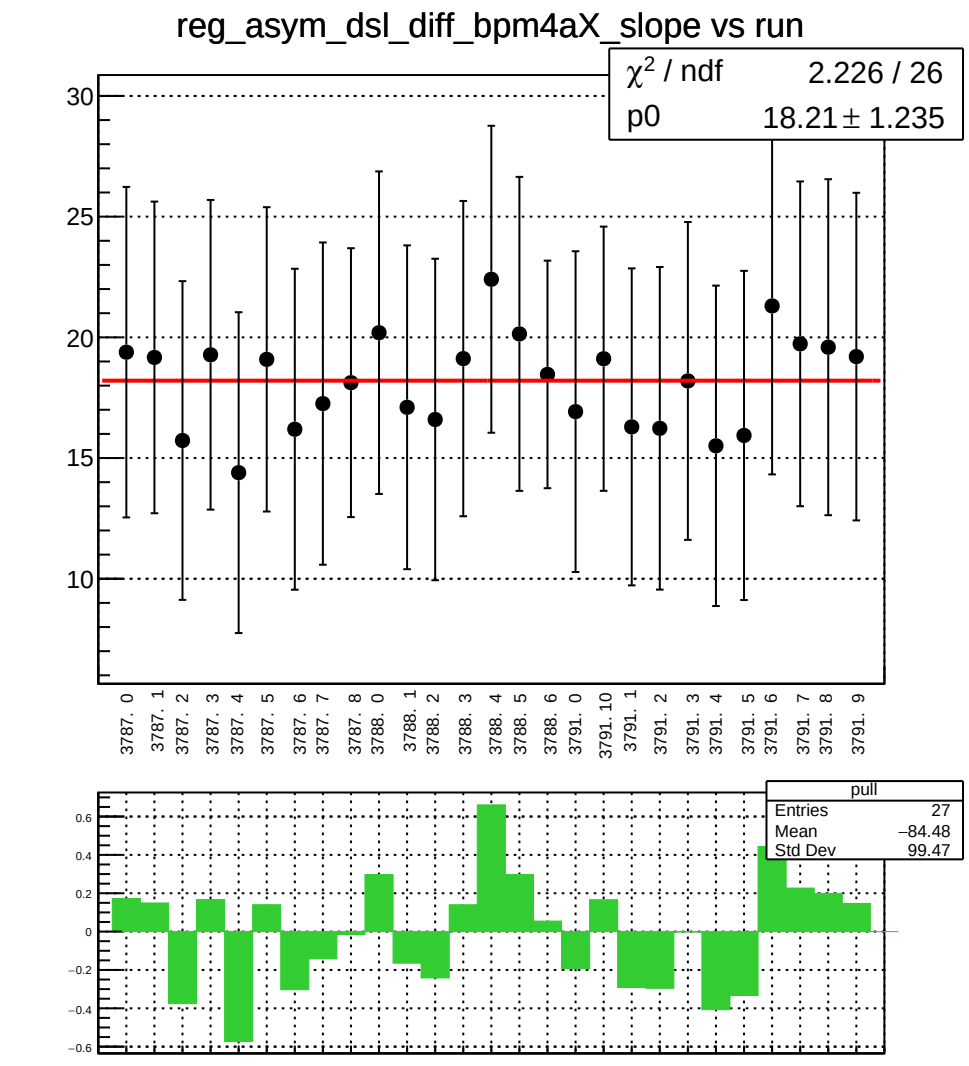

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 25.85 / 26
p0 35.37 ± 0.1908
39
38
37
36
35
34
33
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −73.23
Std Dev 85.42
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean 0.05158
Std Dev 0.9772
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

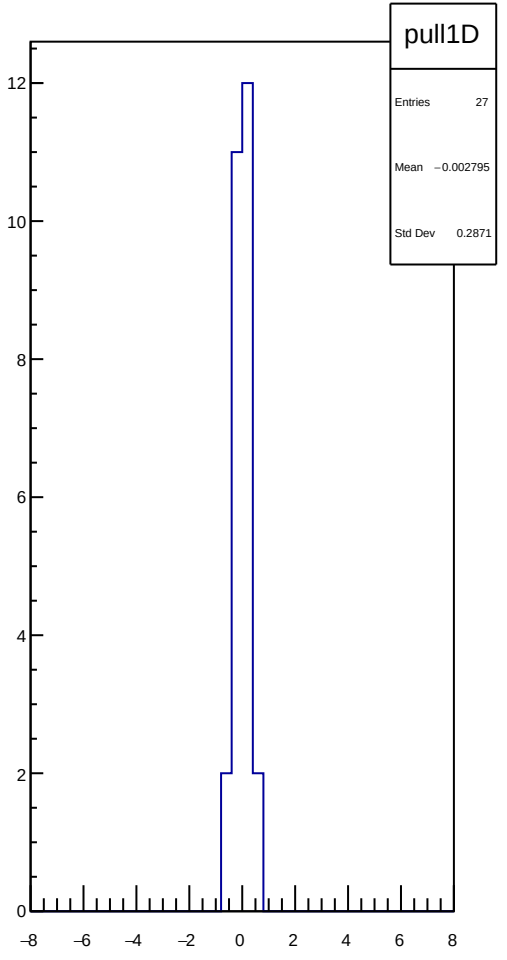

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 2.195 / 26
p0 −5.794 ± 1.212
5
0
−5
−10
−15
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 91.29
Std Dev 79.42
0.4
0.2
0
−0.2
−0.4

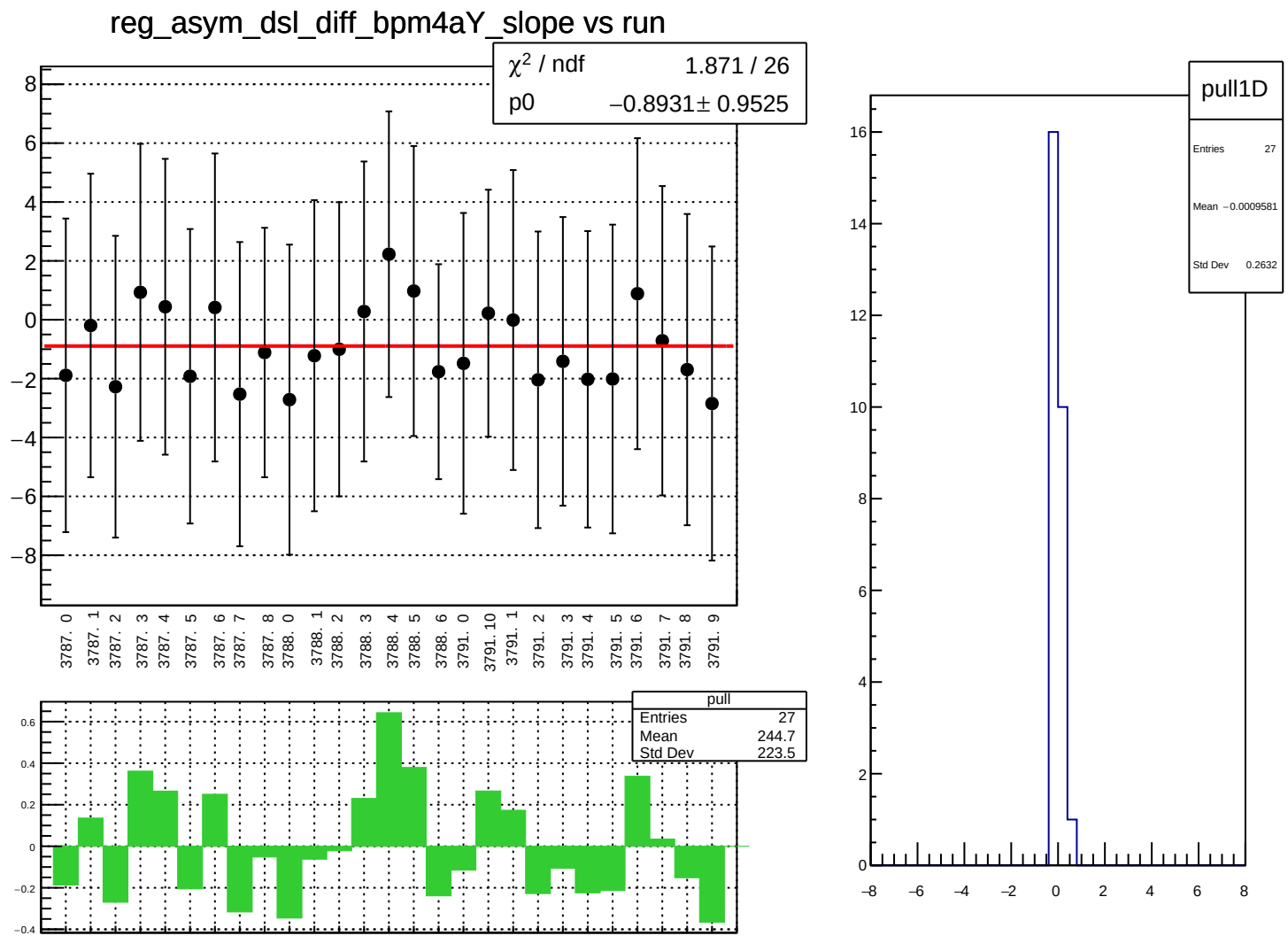

pull1D
Entries 27
Mean 0.005228
Std Dev 0.2851
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

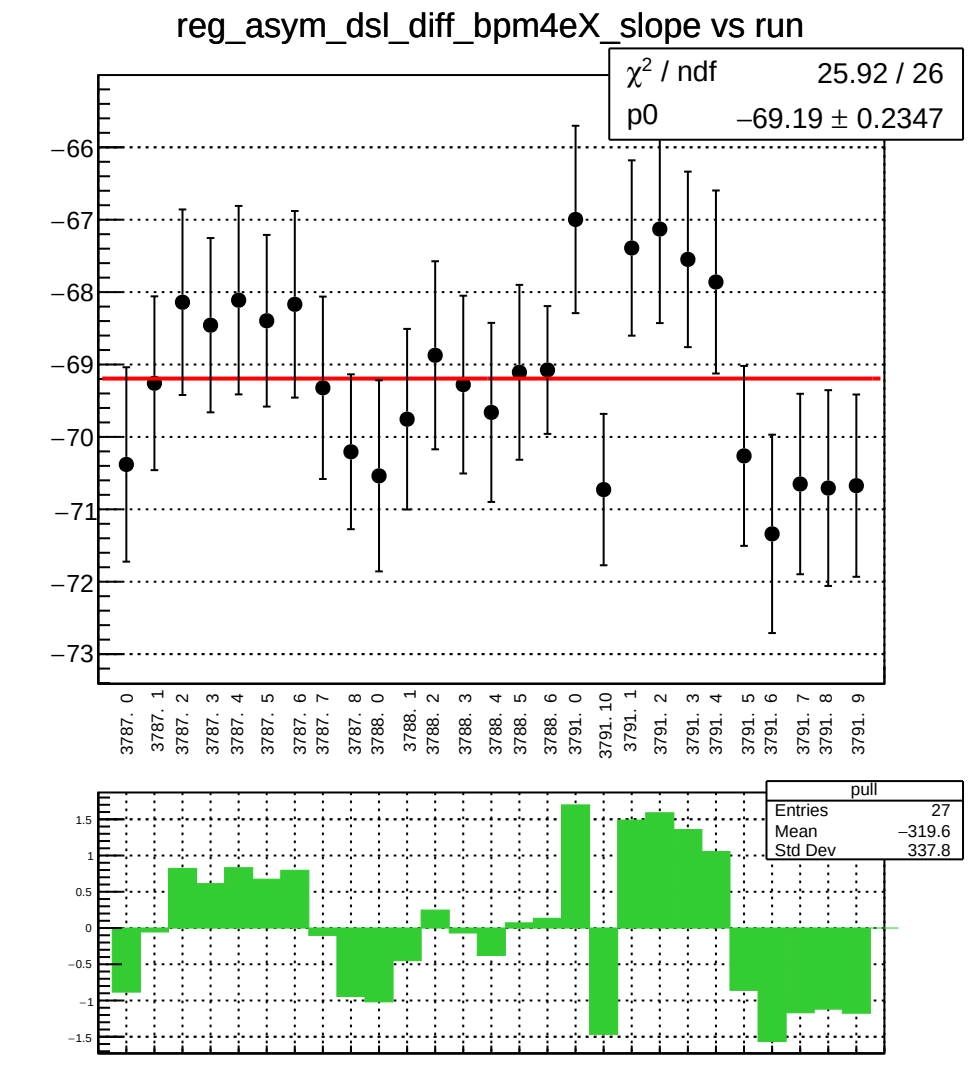

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 2.208 / 26
p0 −48.05 ± 0.2665
−46
−47
−48
−49
−50
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −213.1
Std Dev 224.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

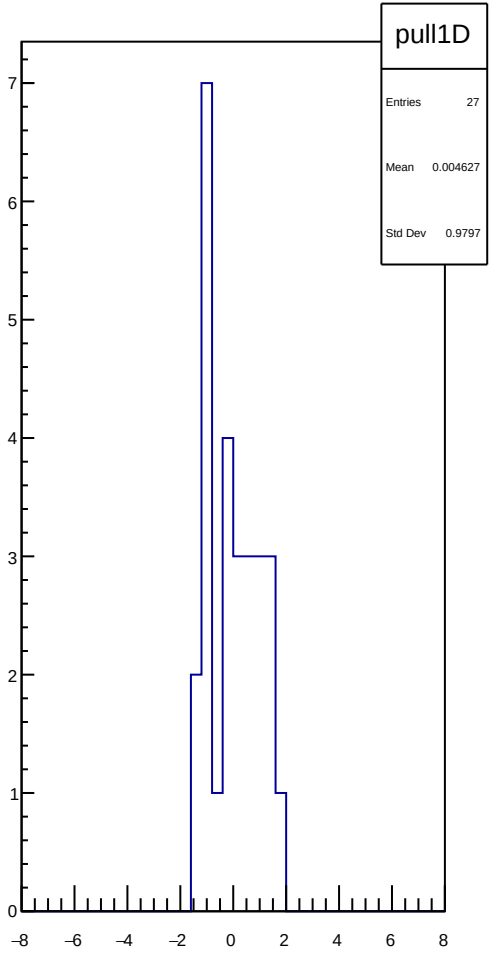

pull1D
Entries 27
Mean 0.004569
Std Dev 0.2859
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

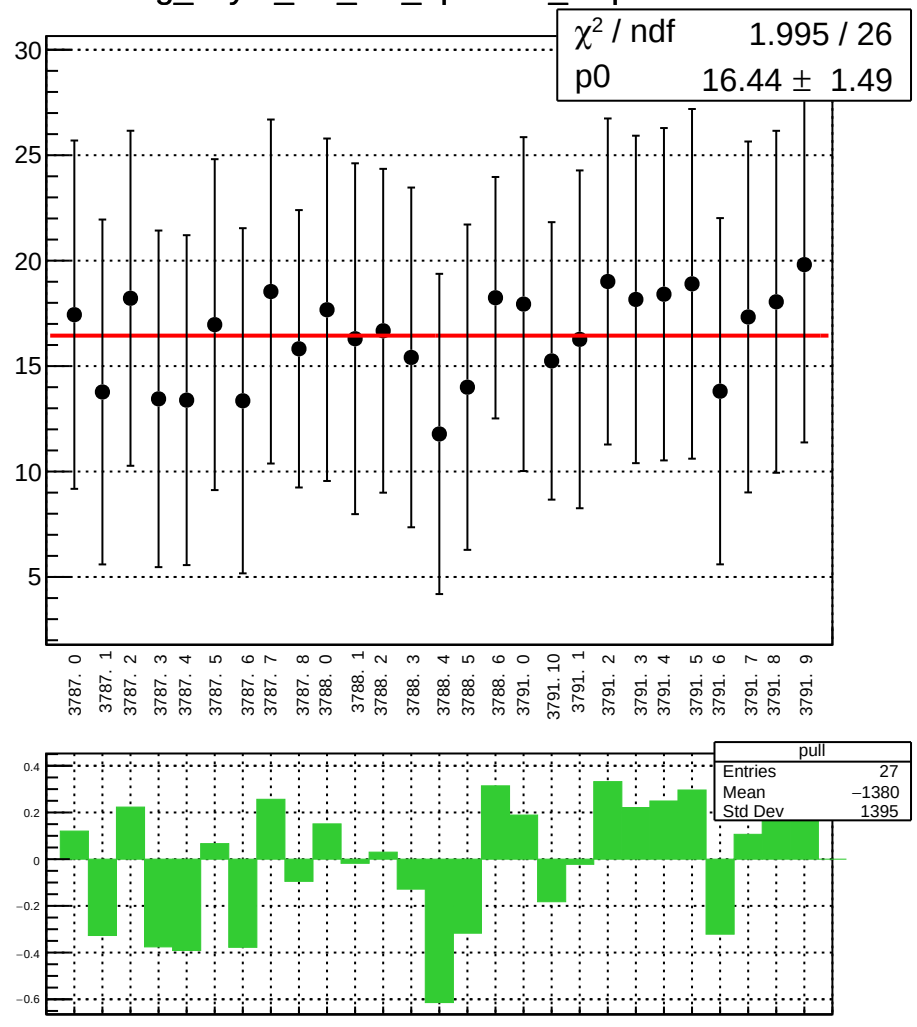

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 2.226 / 26
p0 18.21 ± 1.235
30
25
20
15
10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −84.48
Std Dev 99.47
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

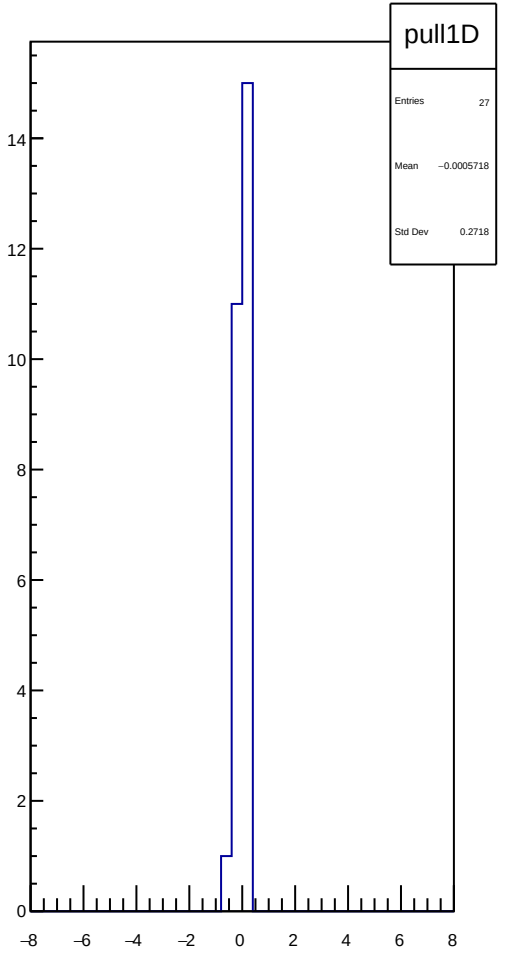

pull1D
Entries 27
Mean −0.002795
Std Dev 0.2871
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

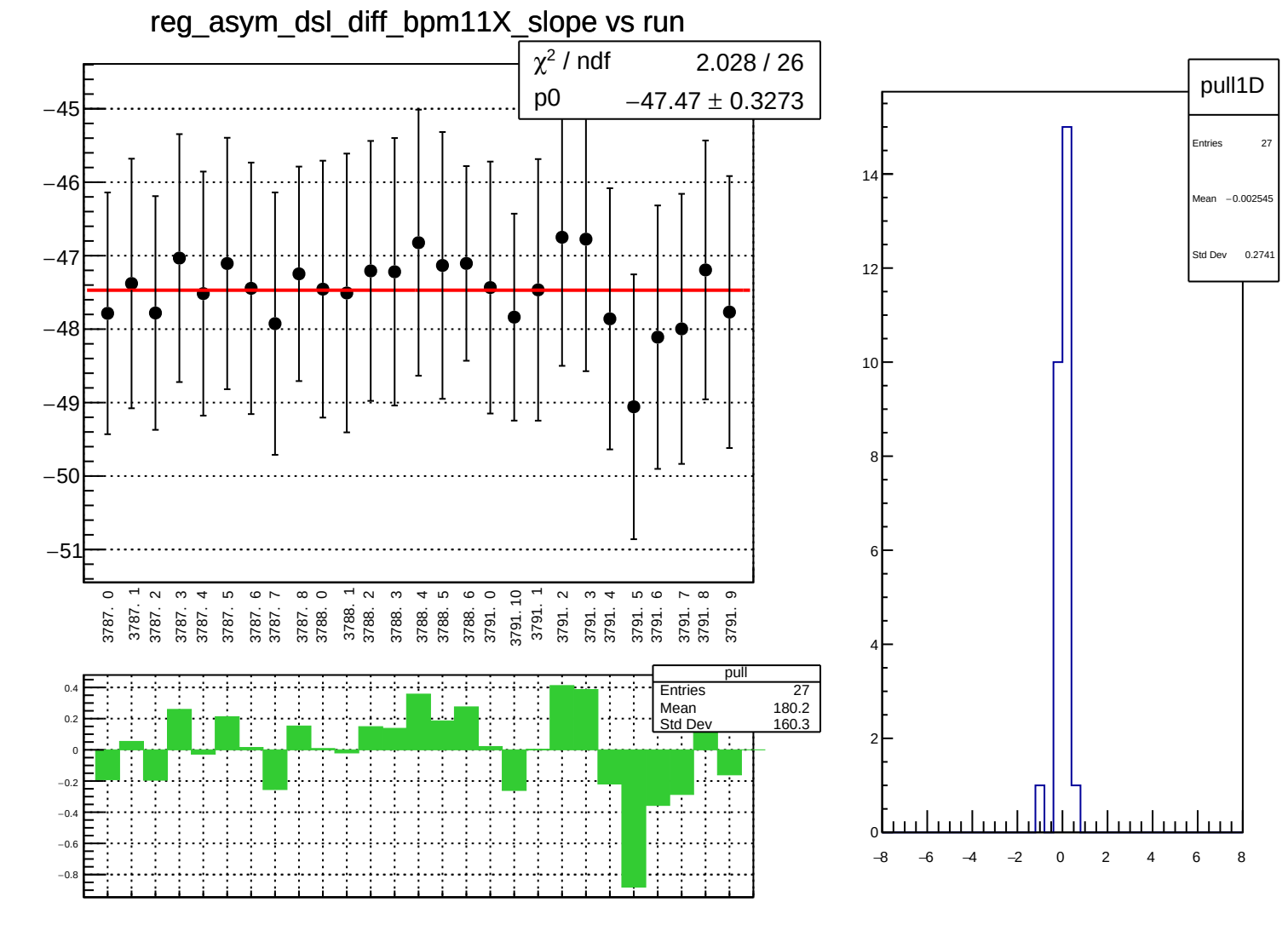

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 1.871 / 26
p0 −0.8931± 0.9525
8
6
4
2
0
−2
−4
−6
−8
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 244.7
Std Dev 223.5
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 27
Mean −0.0009581
Std Dev 0.2632
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

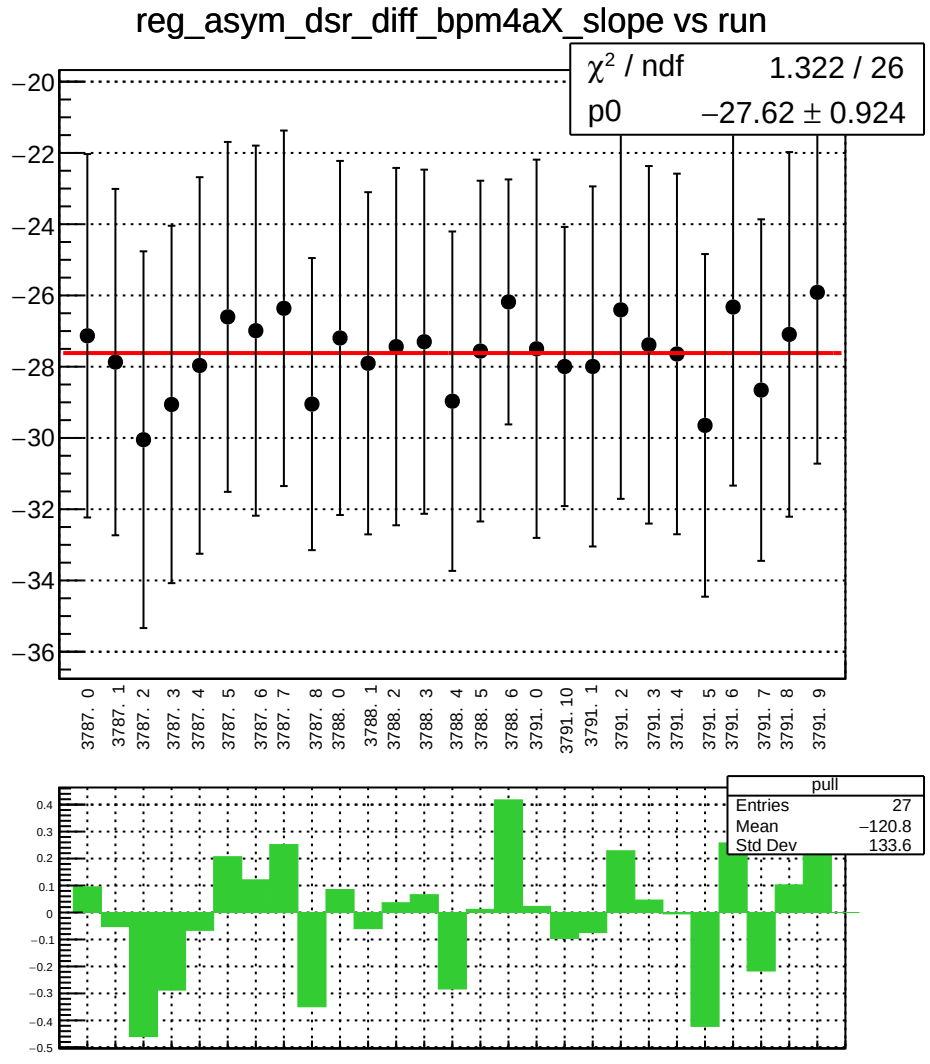

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 25.92 / 26
p0 −69.19 ± 0.2347
−66
−67
−68
−69
−70
−71
−72
−73
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −319.6
Std Dev 337.8
1.5
1
0.5
0
−0.5
−1
−1.5

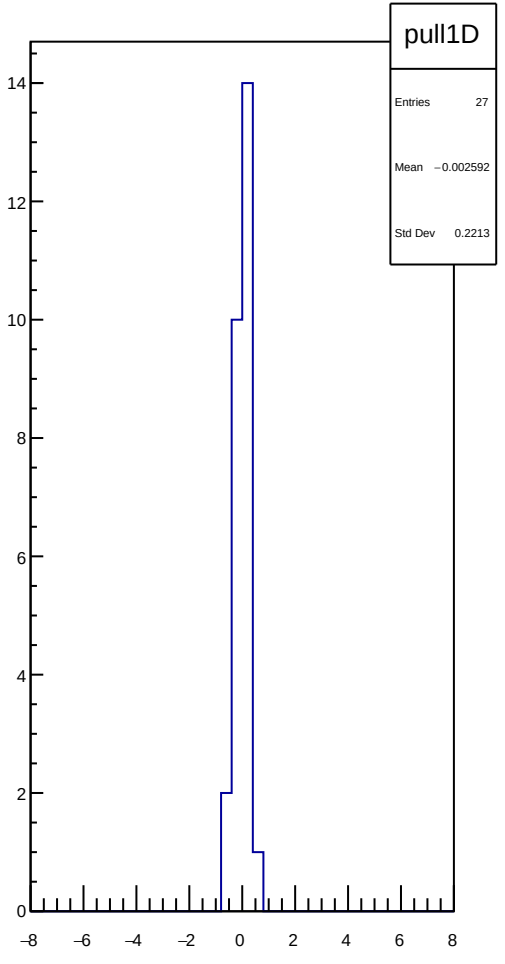

pull1D
Entries 27
Mean 0.004627
Std Dev 0.9797
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

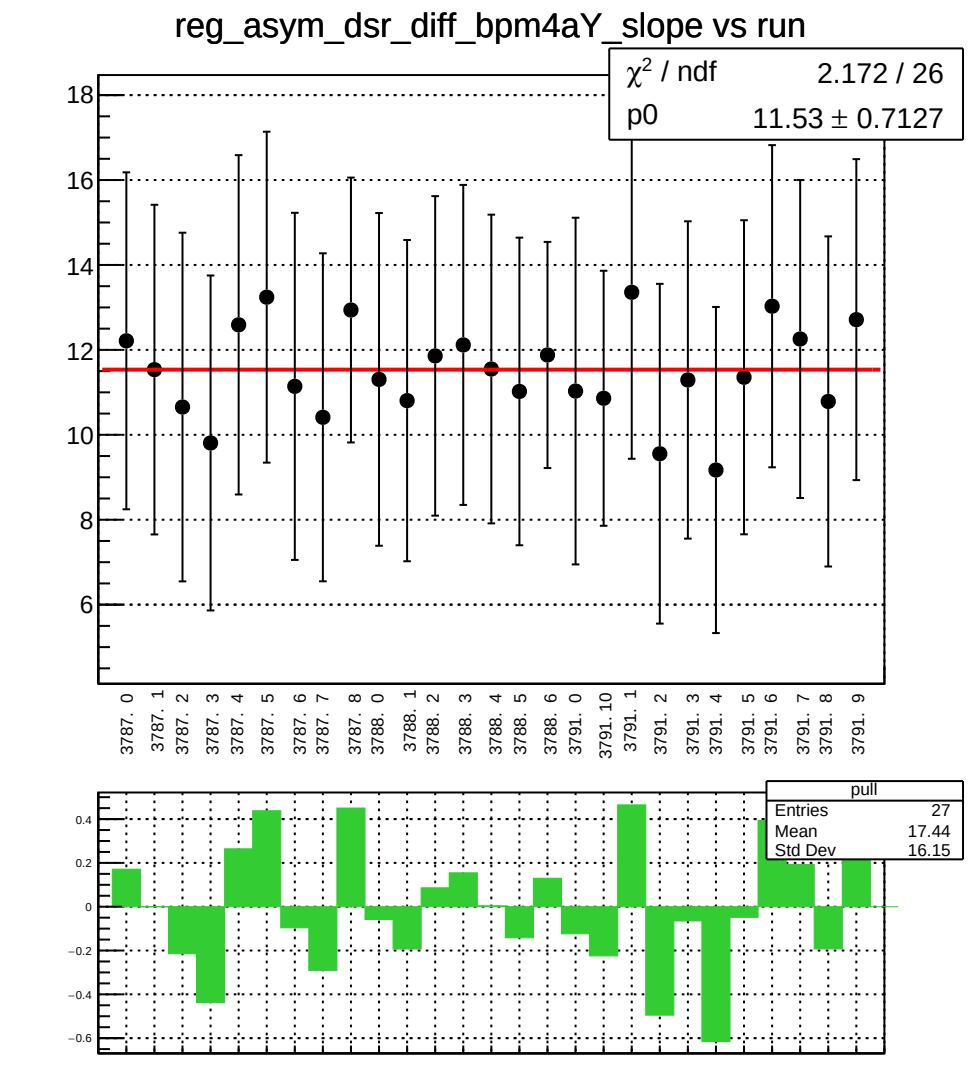

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 1.995 / 26
p0 16.44 ± 1.49
30
25
20
15
10
5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −1380
Std Dev 1395
0.4
0.2
0
−0.2
−0.4
−0.6

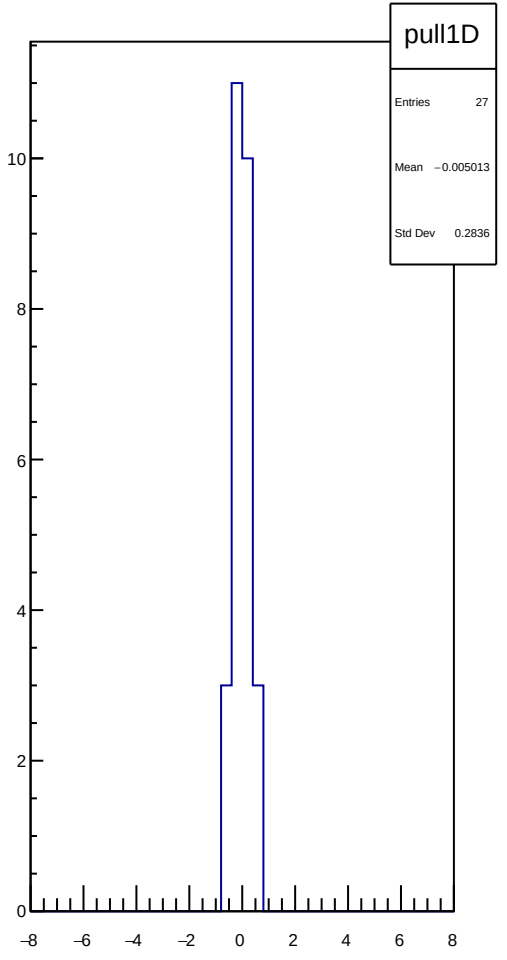

pull1D
Entries 27
Mean −0.0005718
Std Dev 0.2718
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

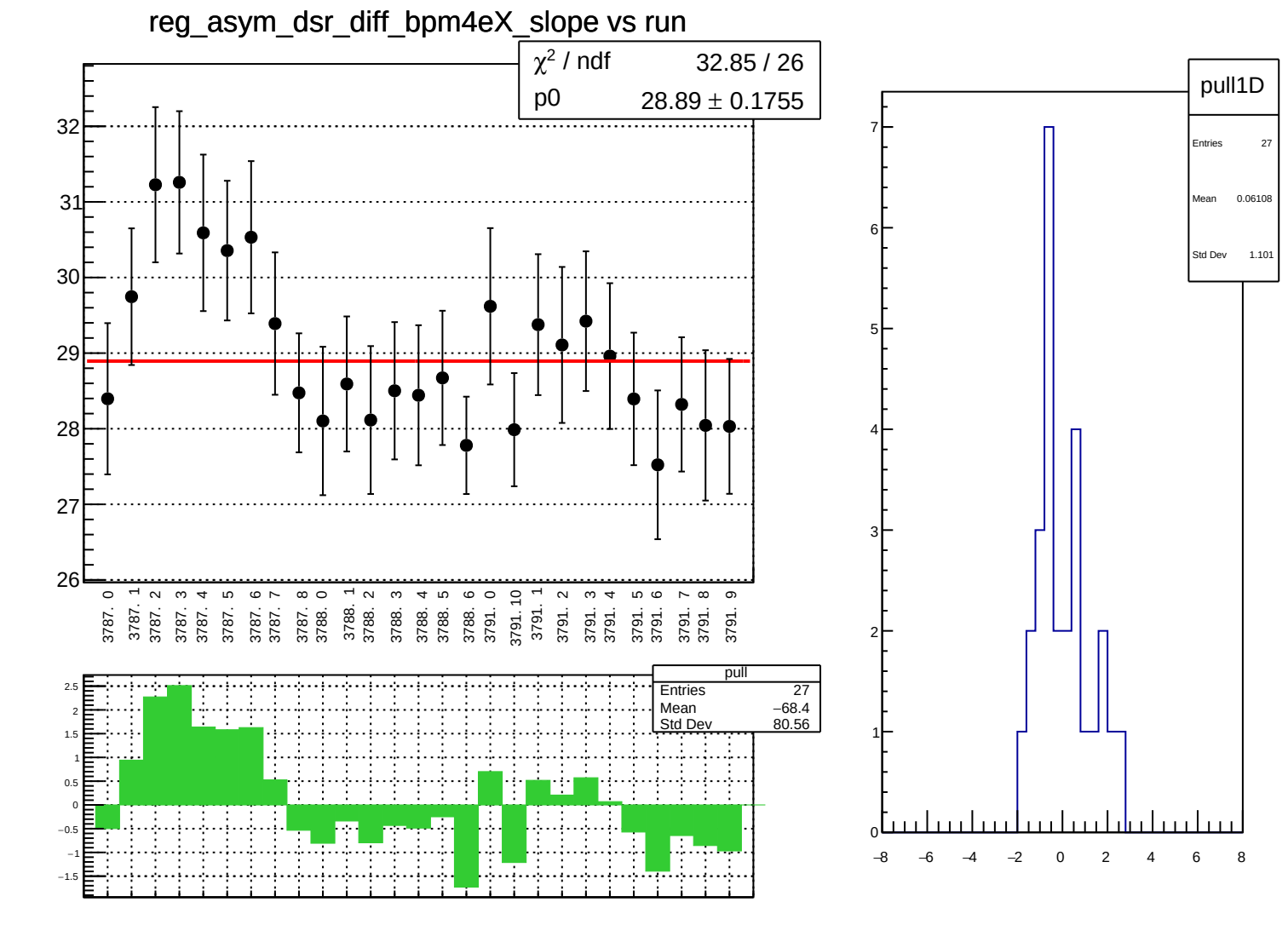

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 2.028 / 26
p0 −47.47 ± 0.3273
−45
−46
−47
−48
−49
−50
−51
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 180.2
Std Dev 160.3
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 27
Mean −0.002545
Std Dev 0.2741
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

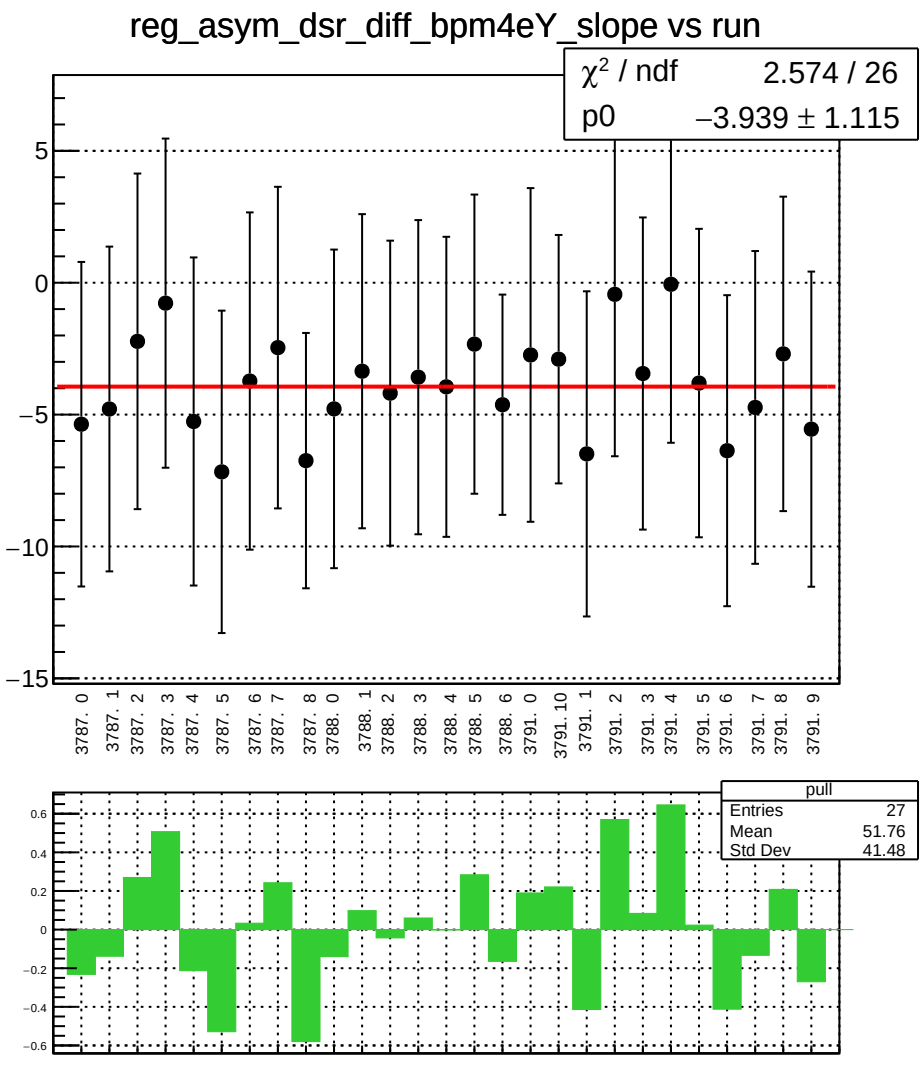

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 1.322 / 26
p0 −27.62 ± 0.924
pull
Entries 27
Mean −120.8
Std Dev 133.6

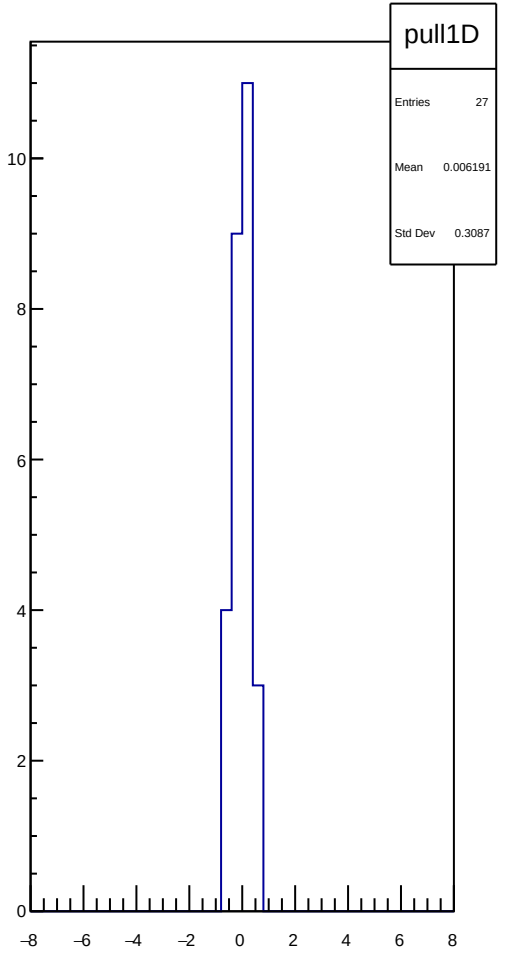

pull1D
Entries 27
Mean −0.002592
Std Dev 0.2213

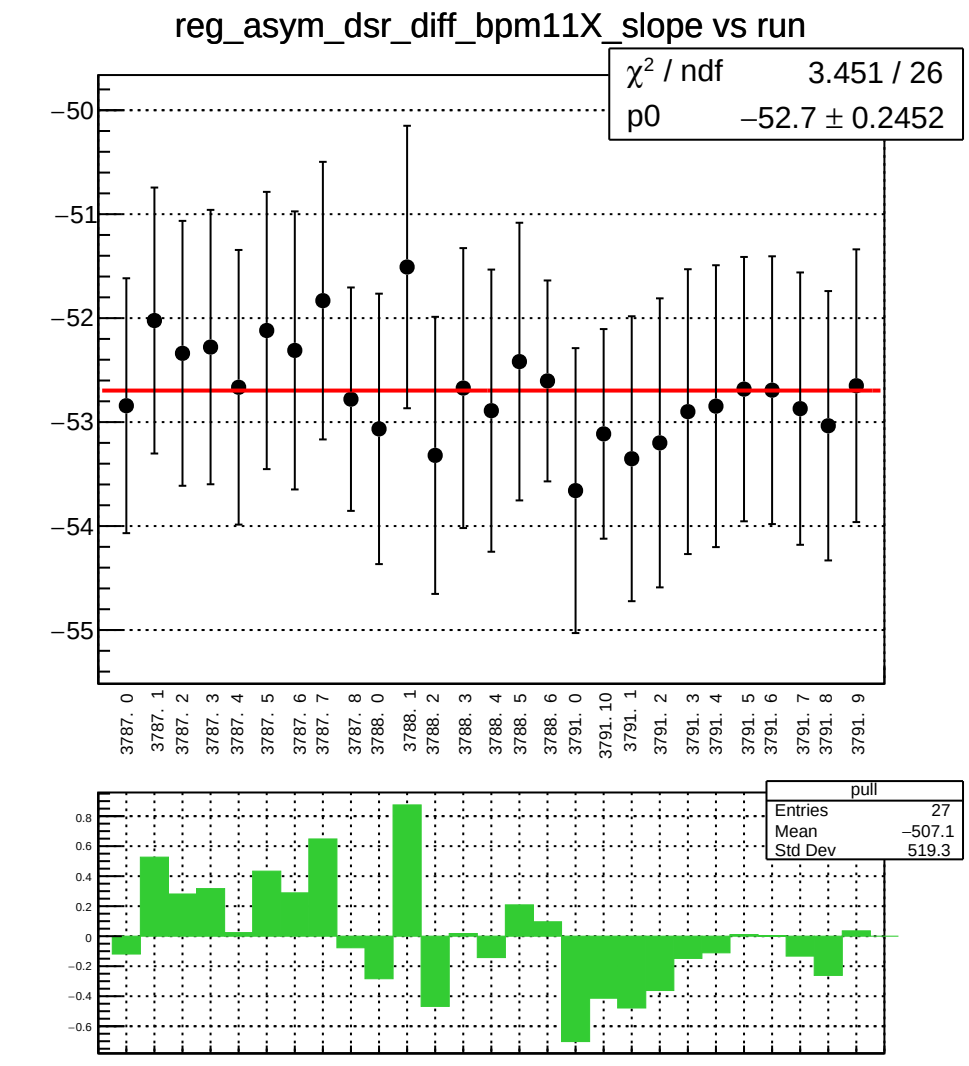

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 2.172 / 26
p0 11.53 ± 0.7127
18
16
14
12
10
8
6
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 17.44
Std Dev 16.15
0.4
0.2
0
−0.2
−0.4
−0.6

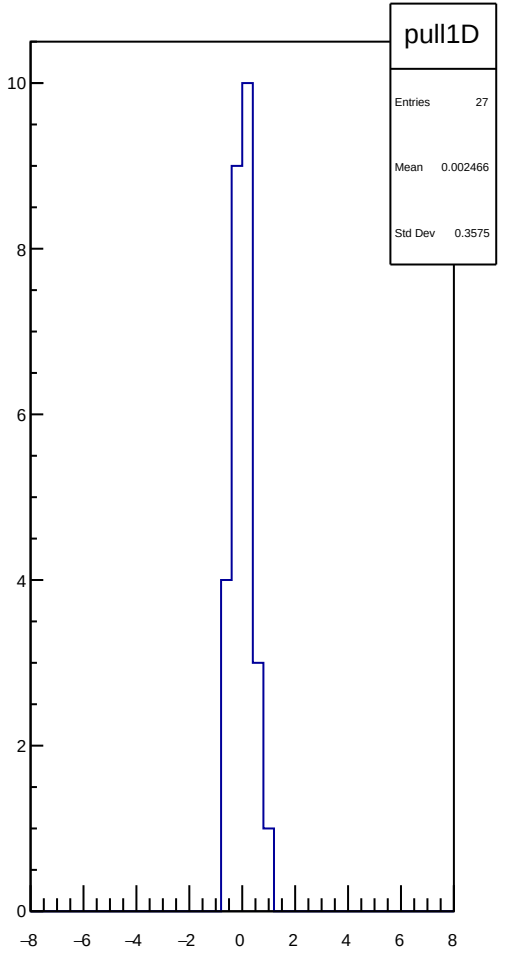

pull1D
Entries 27
Mean −0.005013
Std Dev 0.2836
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

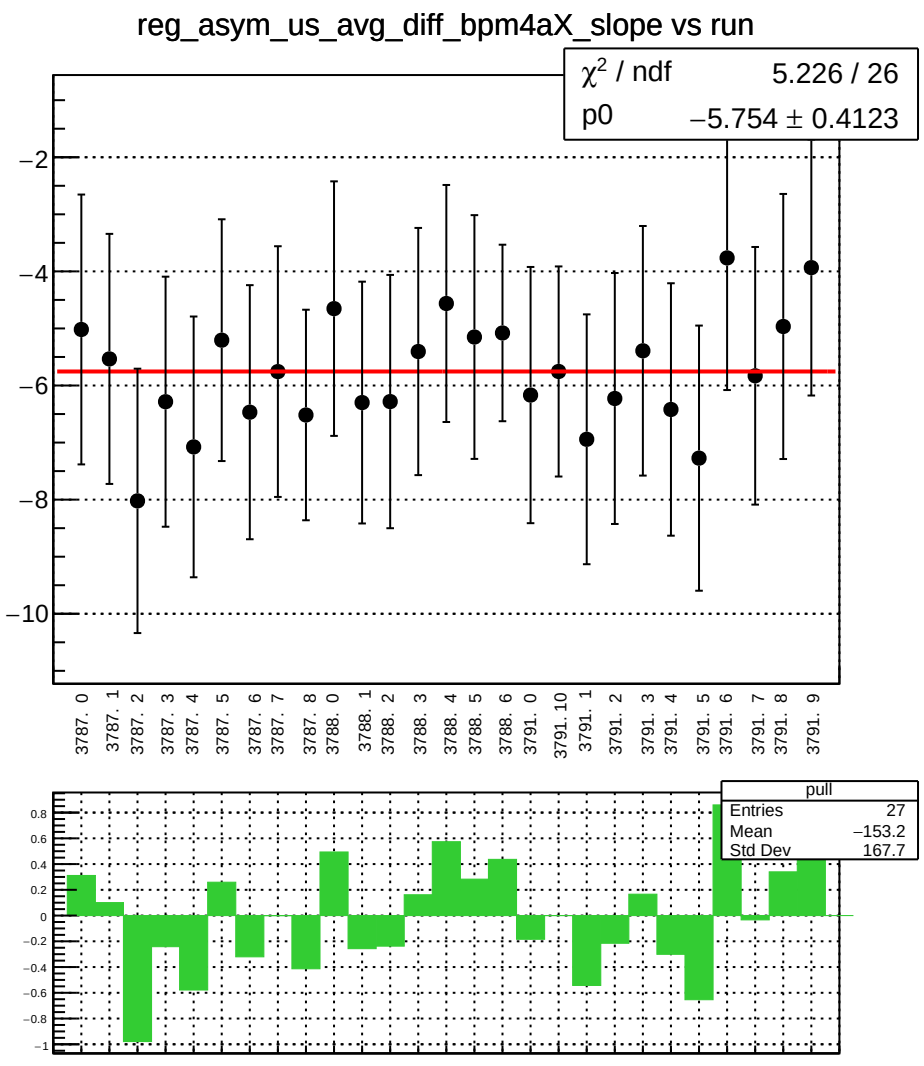

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 32.85 / 26
p0 28.89 ± 0.1755
32
31
30
29
28
27
26
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −68.4
Std Dev 80.56
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean 0.06108
Std Dev 1.101
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

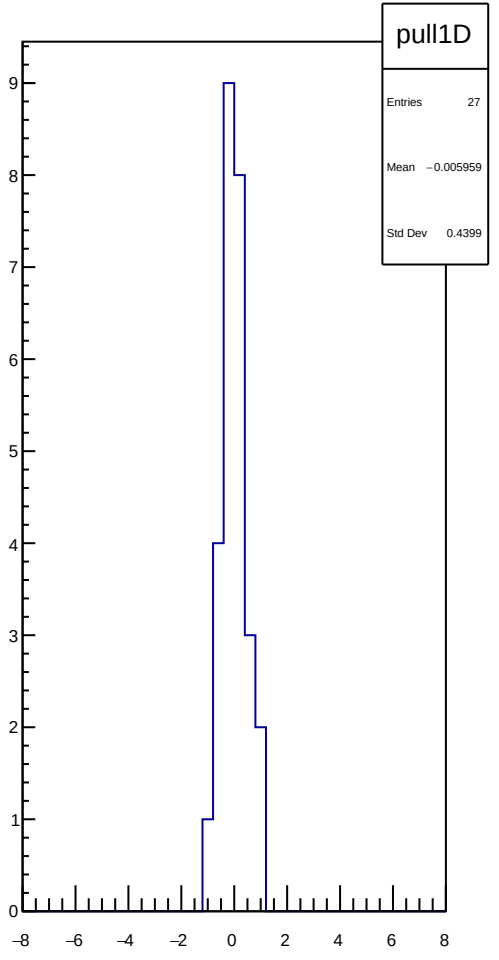

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 2.574 / 26
p0 −3.939 ± 1.115
5
0
−5
−10
−15
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 51.76
Std Dev 41.48
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

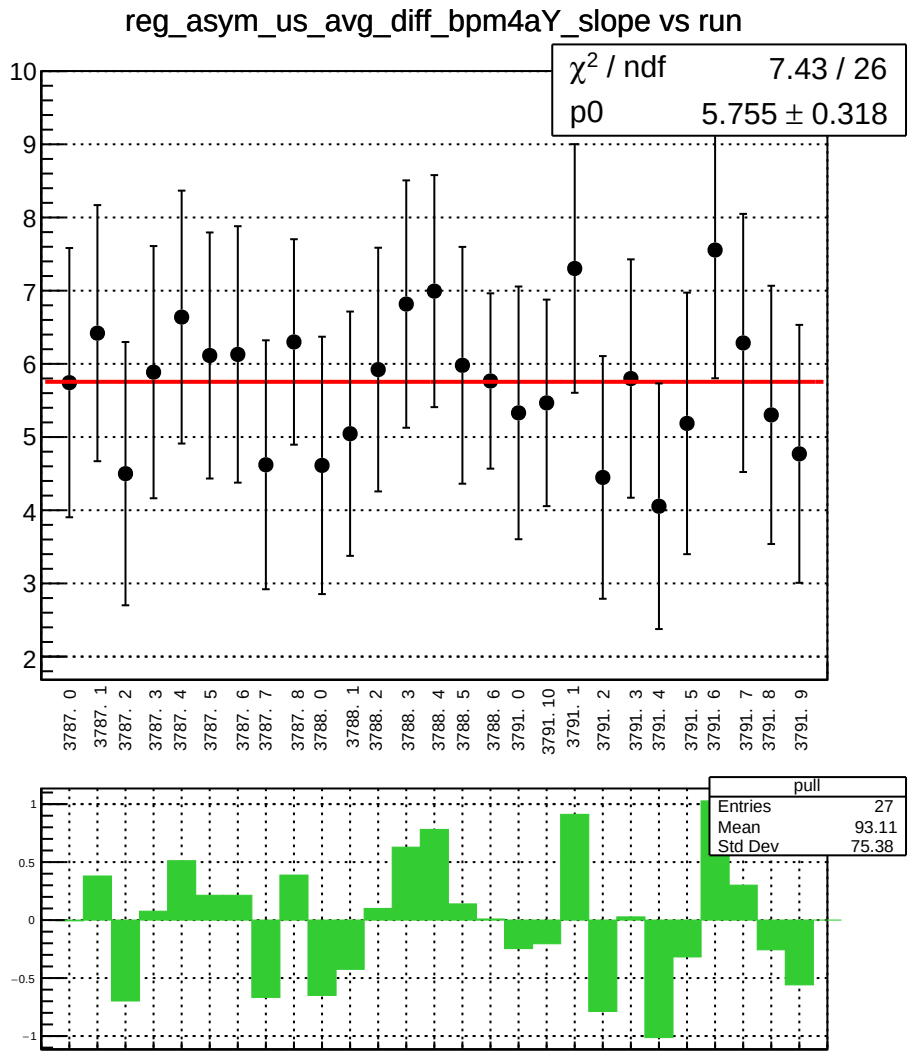

pull1D
Entries 27
Mean 0.006191
Std Dev 0.3087
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

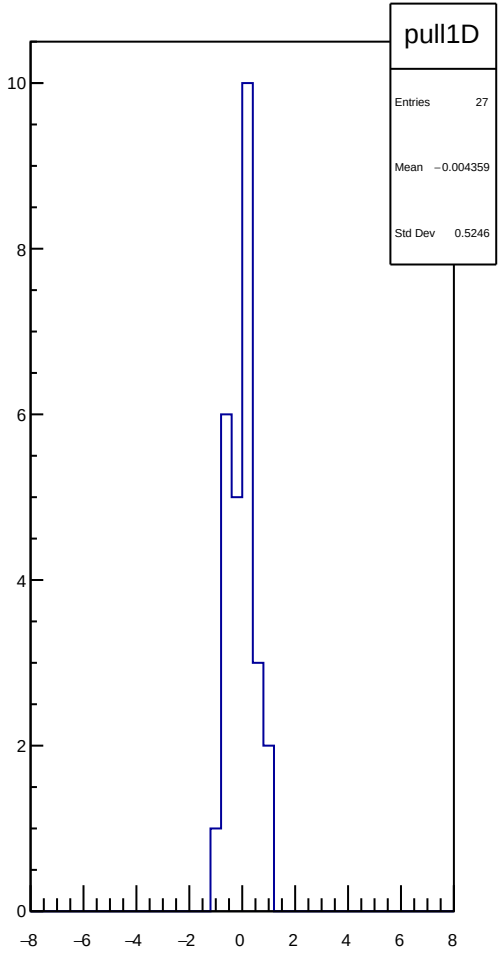

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 3.451 / 26
p0 −52.7 ± 0.2452
−50
−51
−52
−53
−54
−55
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −507.1
Std Dev 519.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

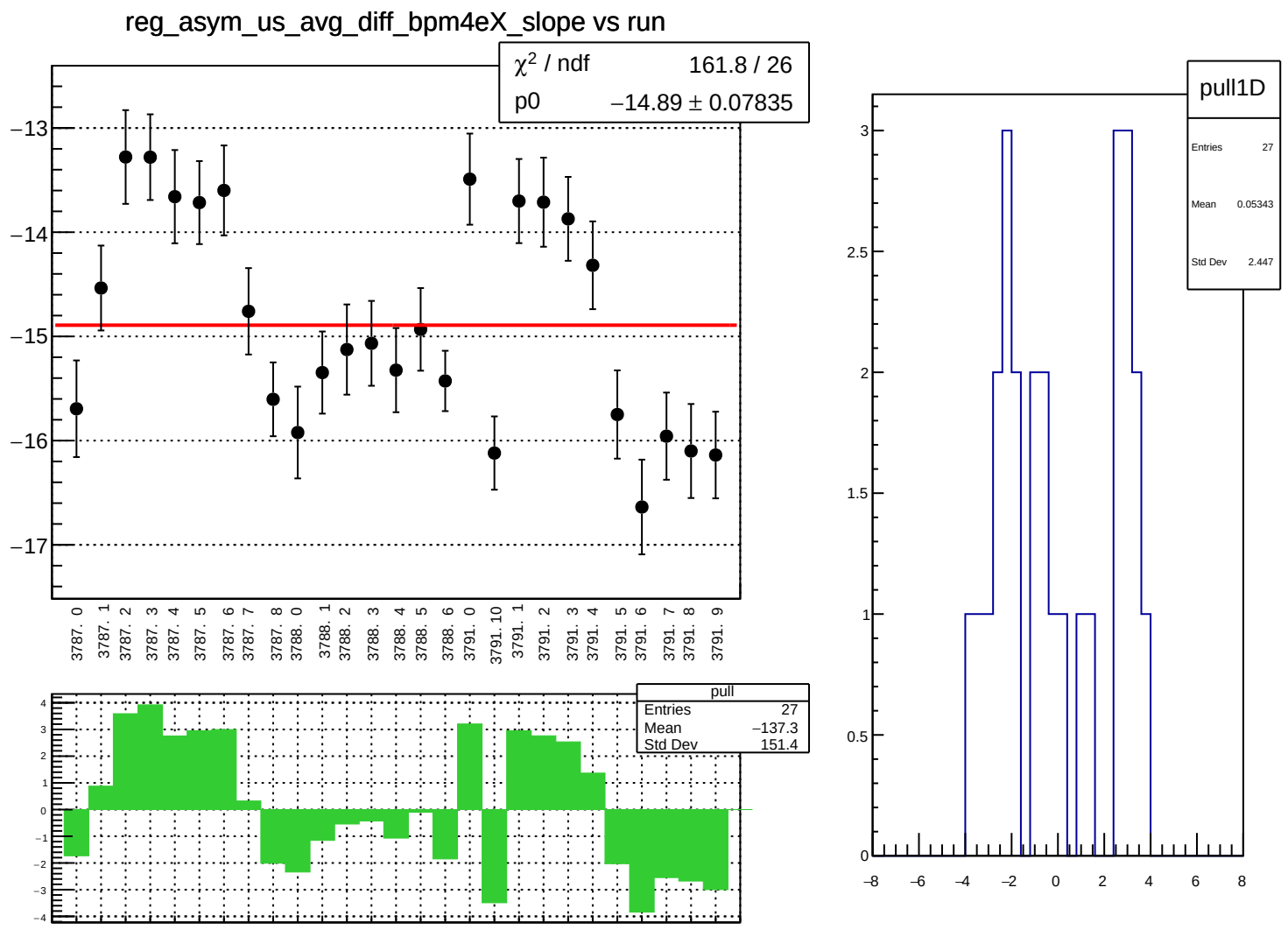

pull1D
Entries 27
Mean 0.002466
Std Dev 0.3575
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

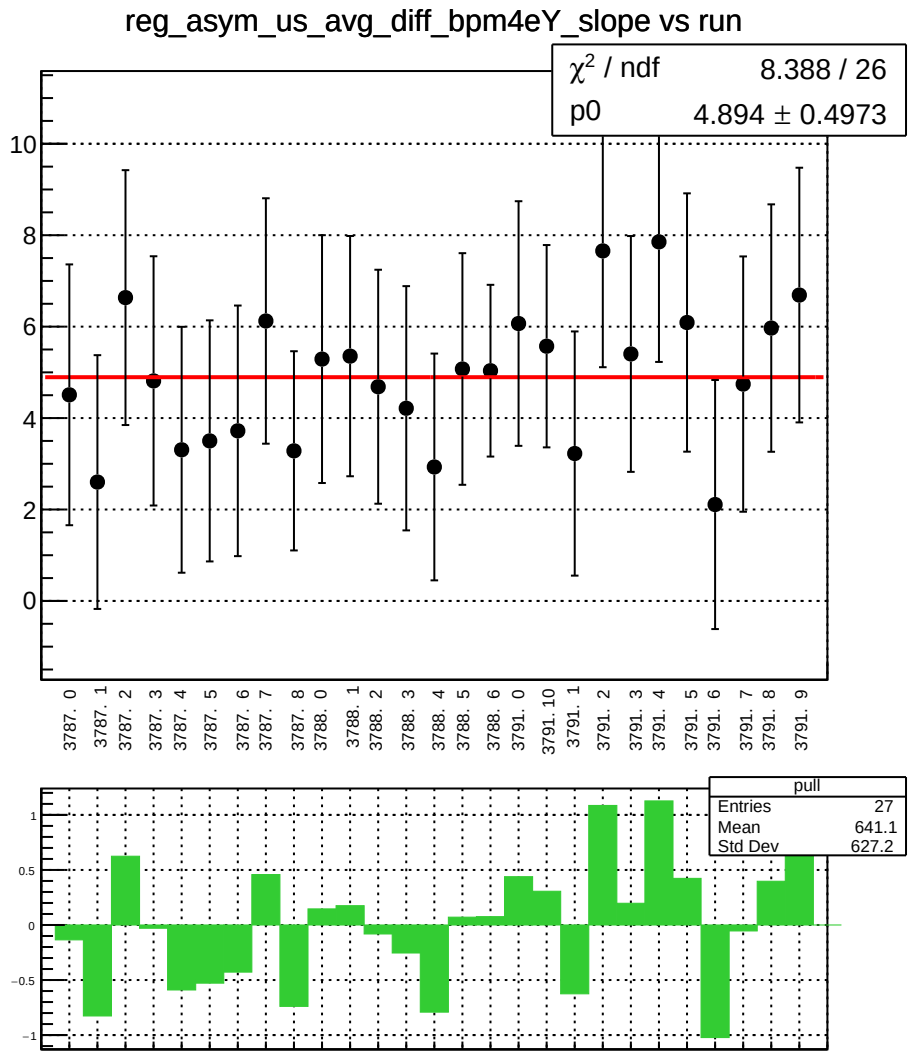

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.226 / 26
p0 −5.754 ± 0.4123
−2
−4
−6
−8
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −153.2
Std Dev 167.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

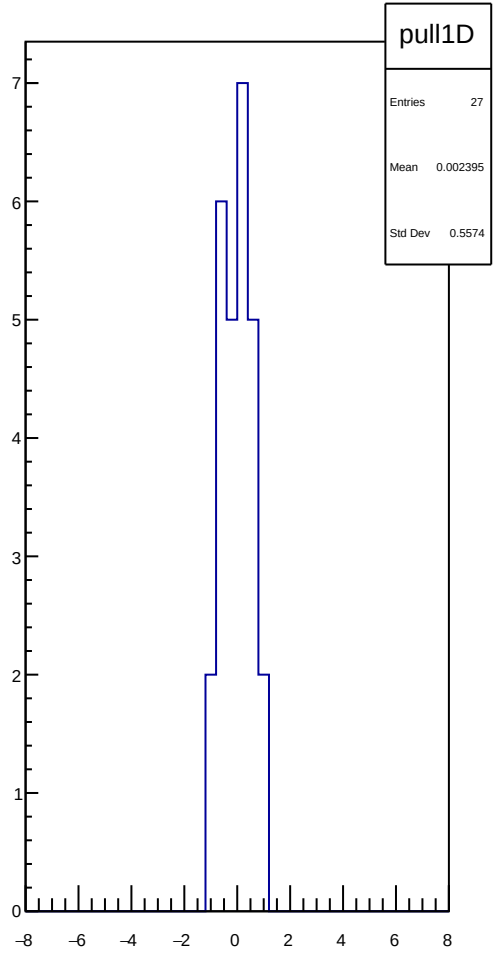

pull1D
Entries 27
Mean −0.005959
Std Dev 0.4399
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

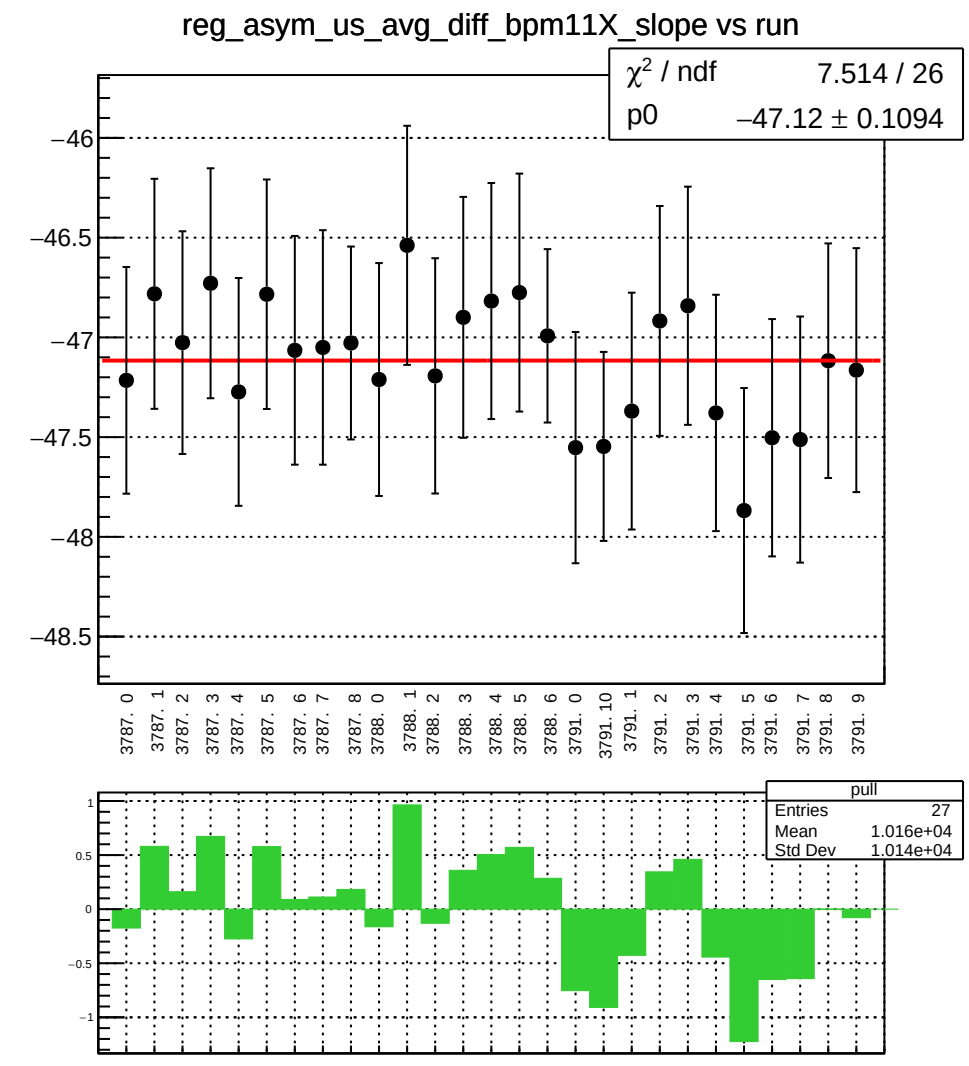

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.43 / 26
p0 5.755 ± 0.318
pull
Entries 27
Mean 93.11
Std Dev 75.38

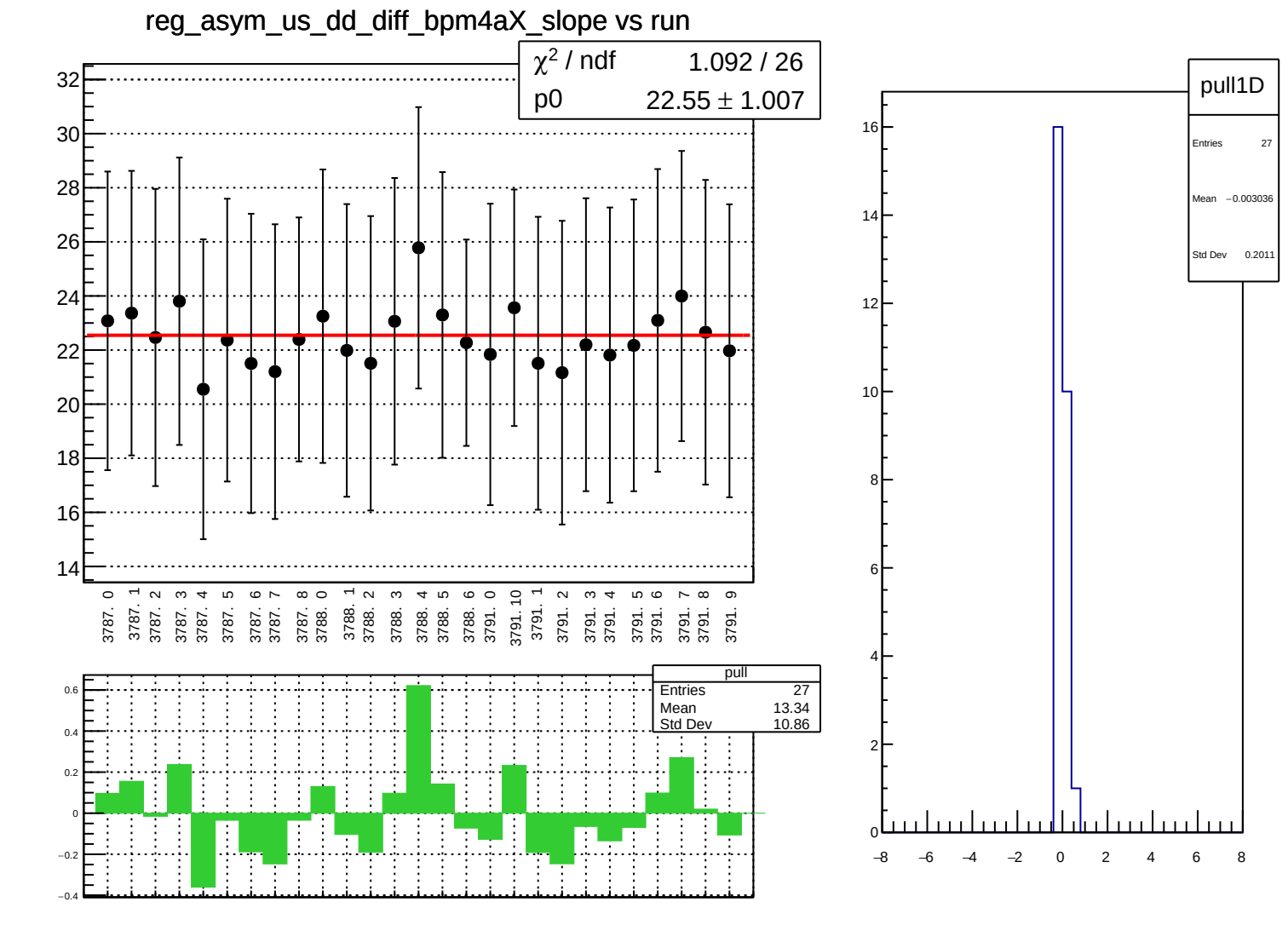

pull1D
Entries 27
Mean −0.004359
Std Dev 0.5246

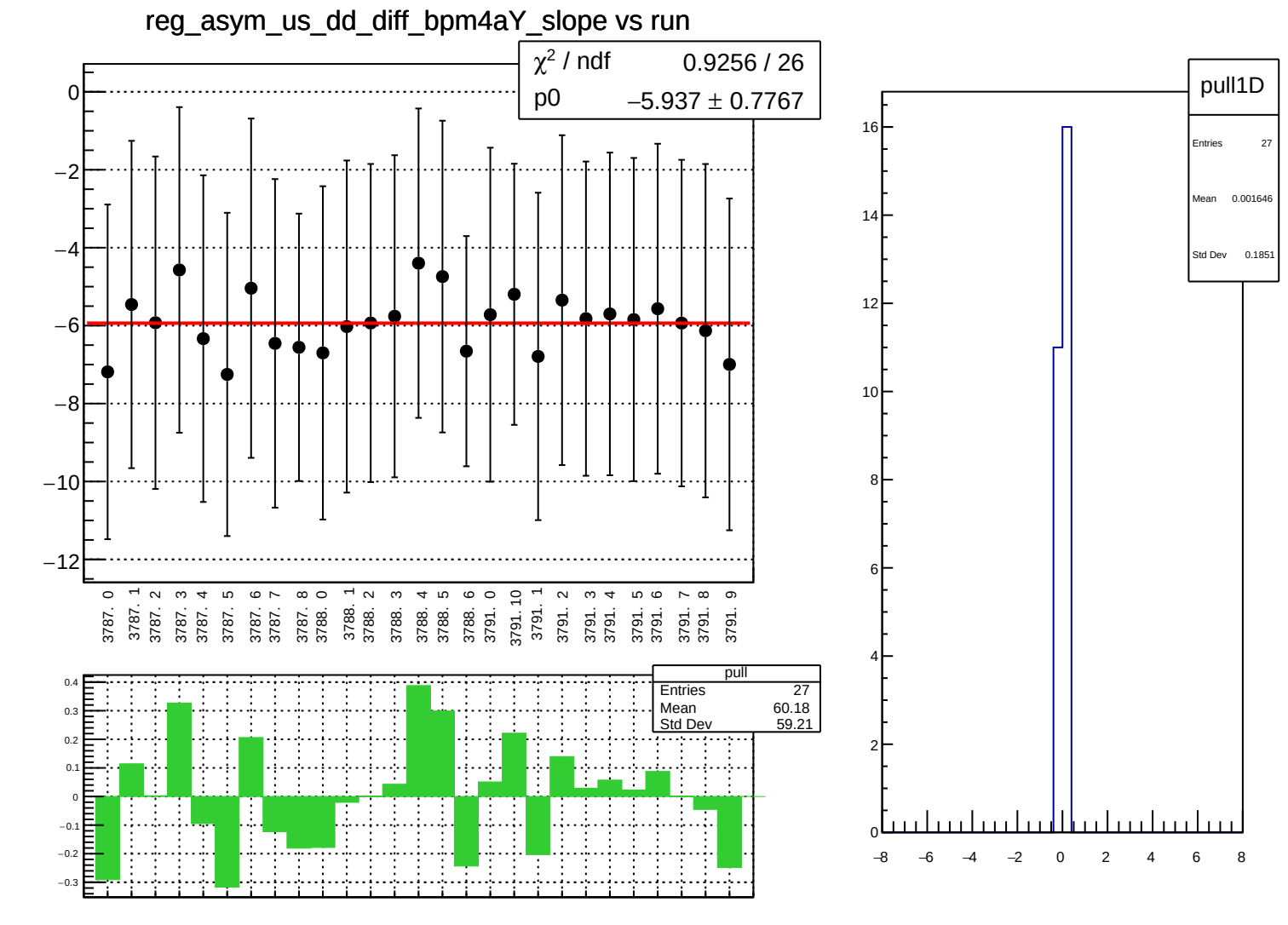

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 161.8 / 26
p0 −14.89 ± 0.07835
−13
−14
−15
−16
−17
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −137.3
Std Dev 151.4
pull1D
Entries 27
Mean 0.05343
Std Dev 2.447

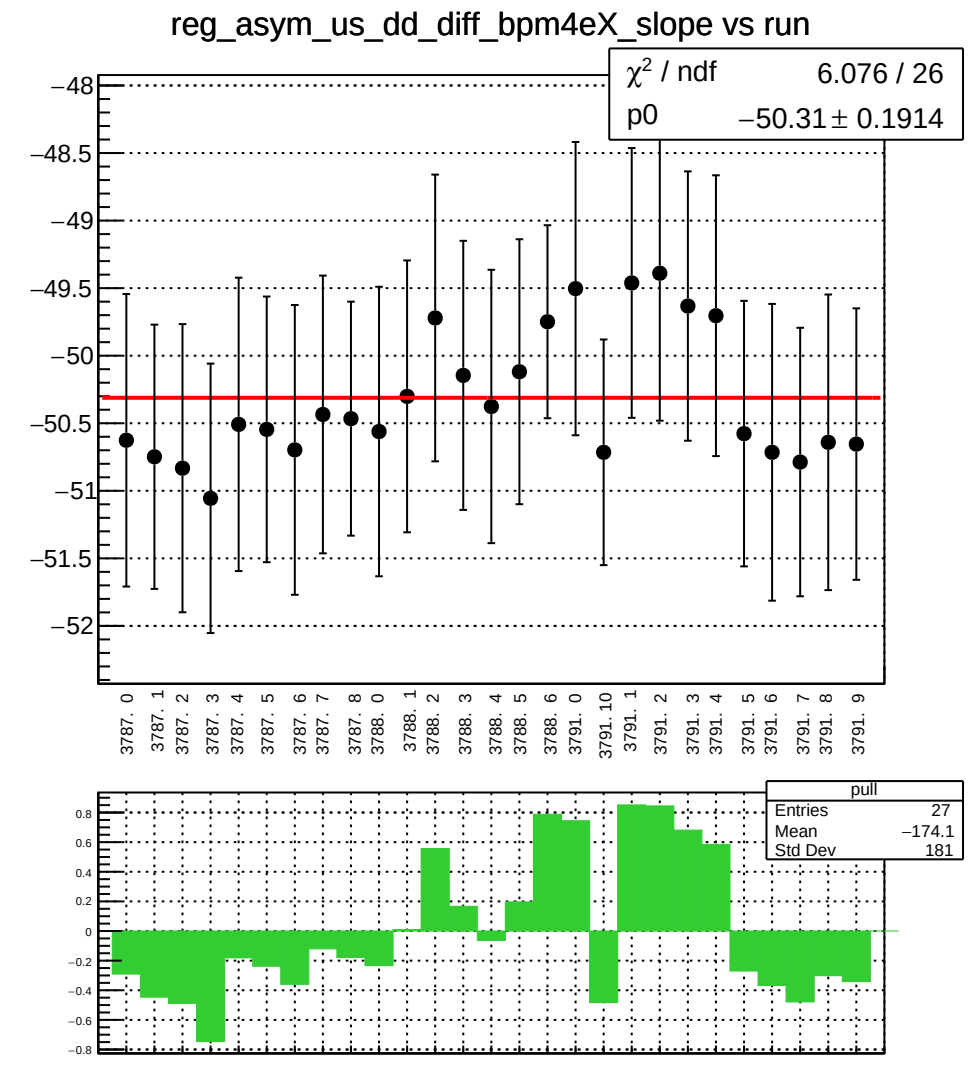

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.388 / 26
p0 4.894 ± 0.4973
10
8
6
4
2
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 641.1
Std Dev 627.2
1
0.5
0
−0.5
−1

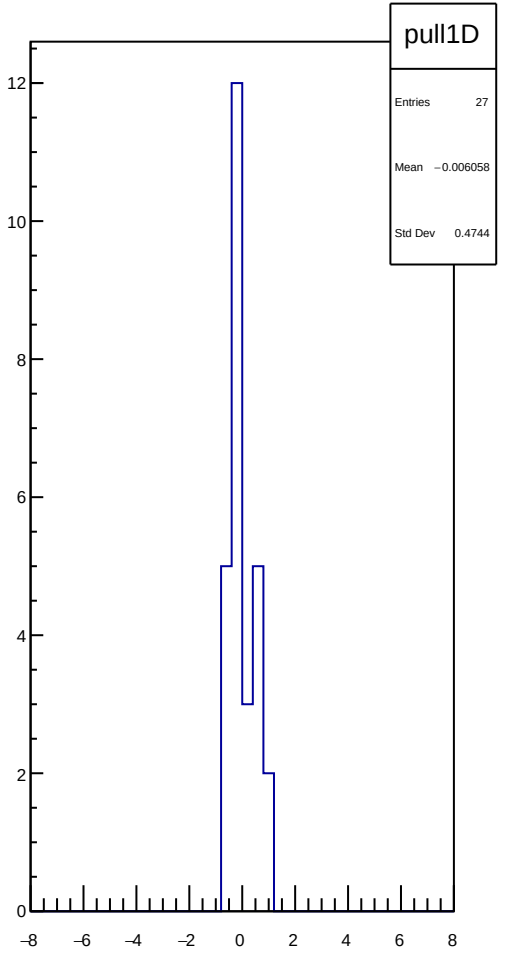

pull1D
Entries 27
Mean 0.002395
Std Dev 0.5574
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

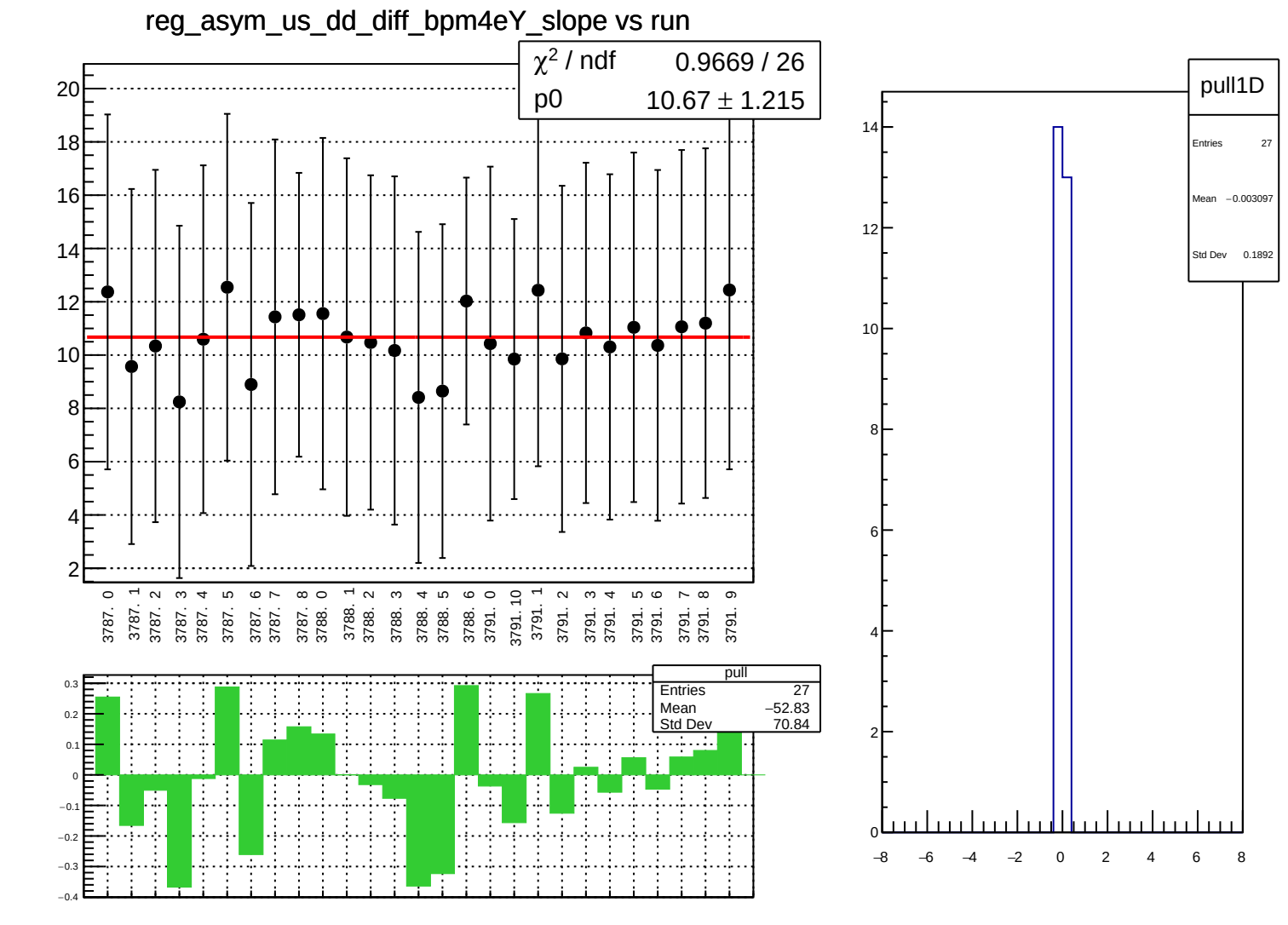

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 7.514 / 26
p0 −47.12 ± 0.1094
−46
−46.5
−47
−47.5
−48
−48.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 1.016e+04
Std Dev 1.014e+04
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean −0.0001849
Std Dev 0.5275
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

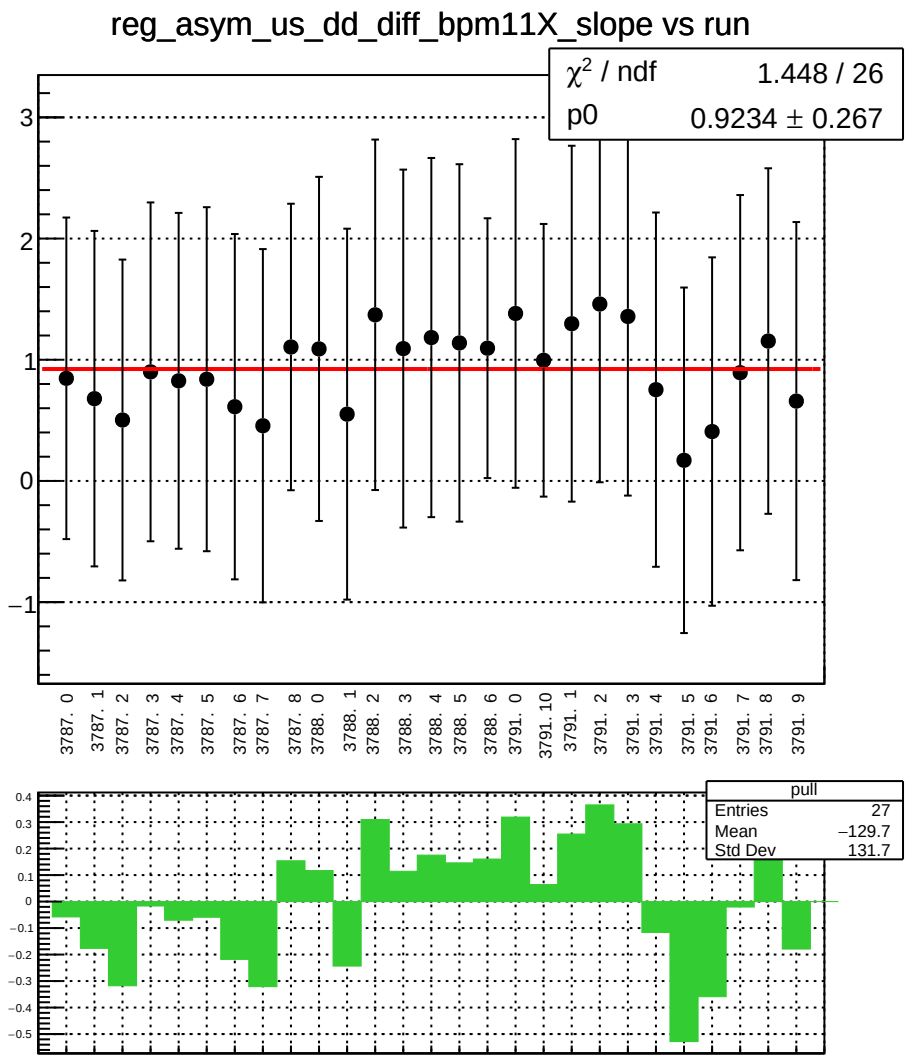

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.092 / 26
p0 22.55 ± 1.007
32
30
28
26
24
22
20
18
16
14
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 13.34
Std Dev 10.86
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 27
Mean −0.003036
Std Dev 0.2011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

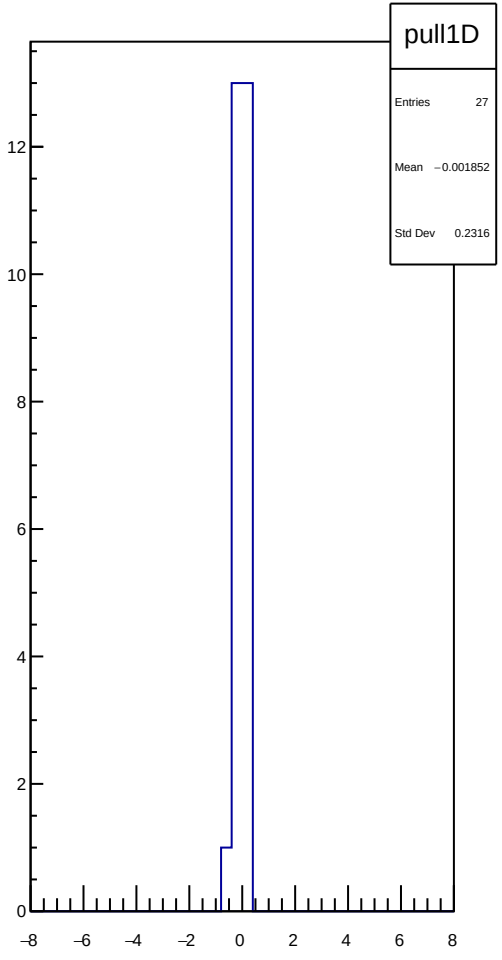

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9256 / 26
p0 −5.937 ± 0.7767
0
−2
−4
−6
−8
−10
−12
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 60.18
Std Dev 59.21
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 27
Mean 0.001646
Std Dev 0.1851
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

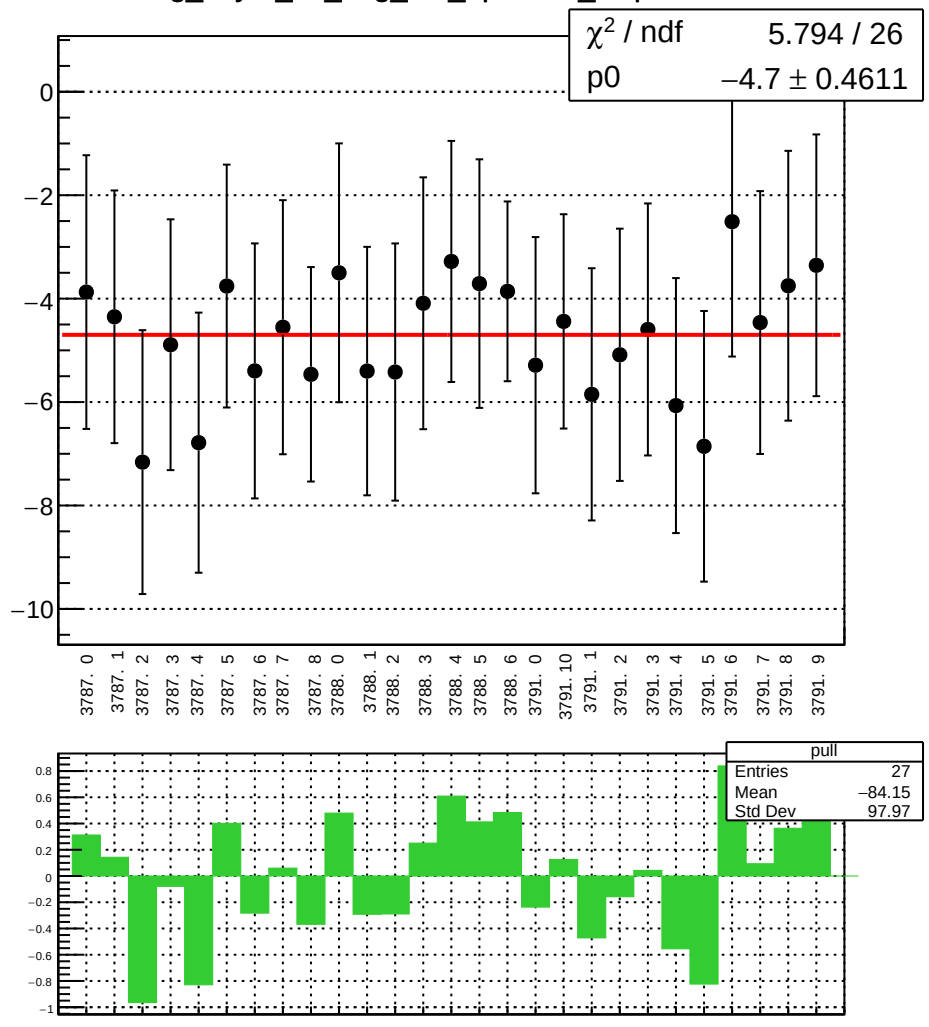

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.076 / 26
p0 −50.31 ± 0.1914
−48
−48.5
−49
−49.5
−50
−50.5
−51
−51.5
−52
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −174.1
Std Dev 181
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

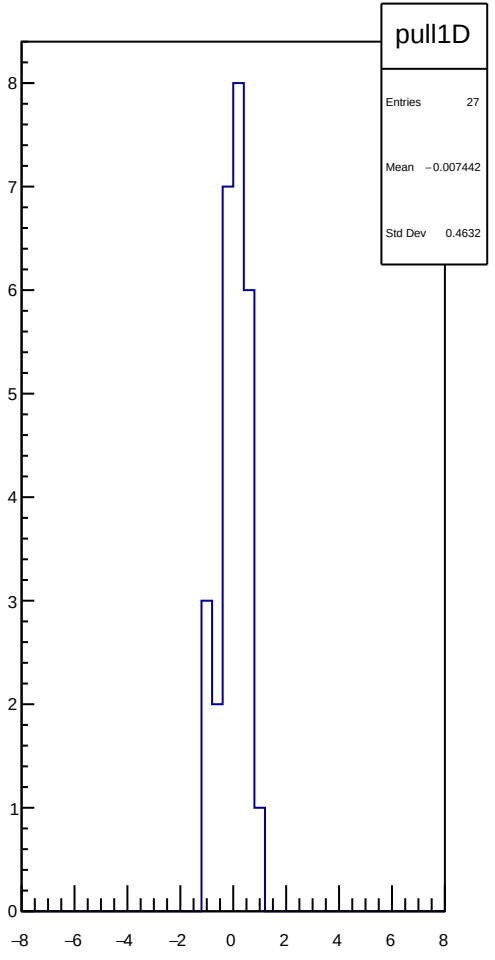

pull1D
Entries 27
Mean −0.006058
Std Dev 0.4744
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

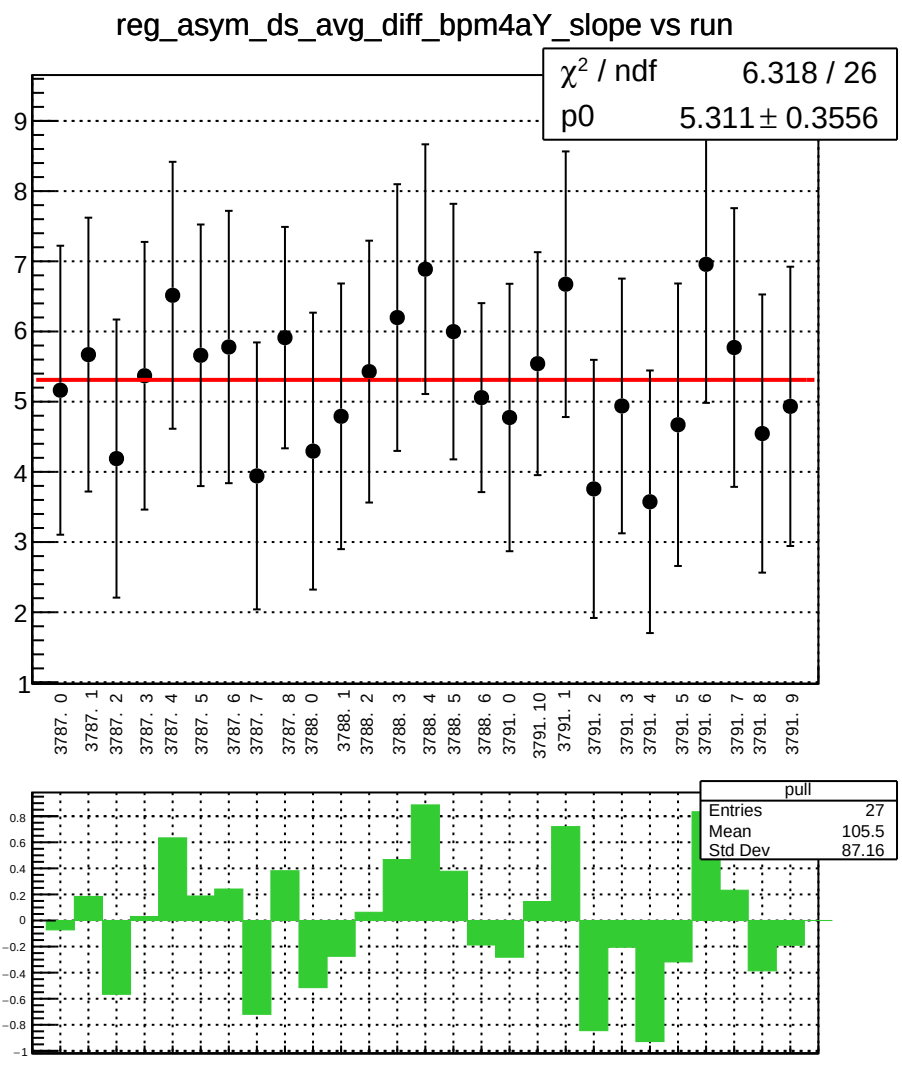

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9669 / 26
p0 10.67 ± 1.215
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −52.83
Std Dev 70.84
pull1D
Entries 27
Mean −0.003097
Std Dev 0.1892

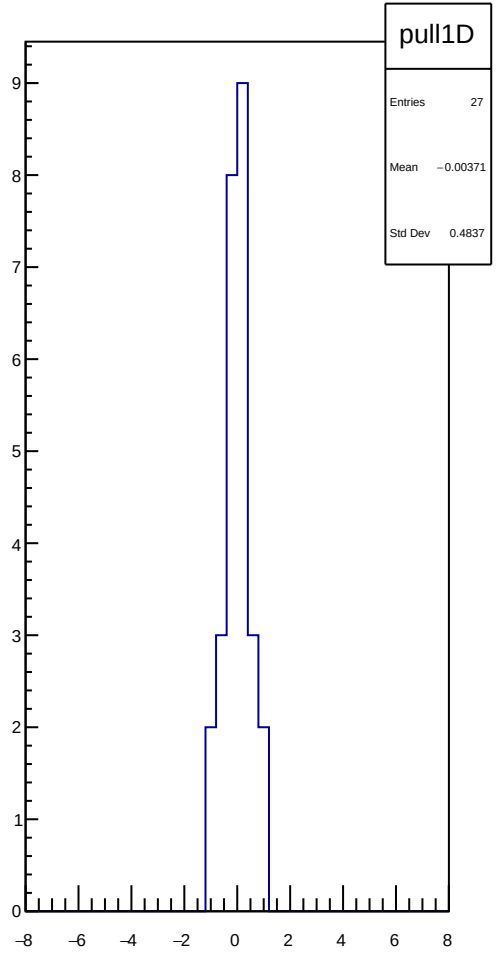

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 1.448 / 26
p0 0.9234 ± 0.267
3
2
1
0
−1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −129.7
Std Dev 131.7
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

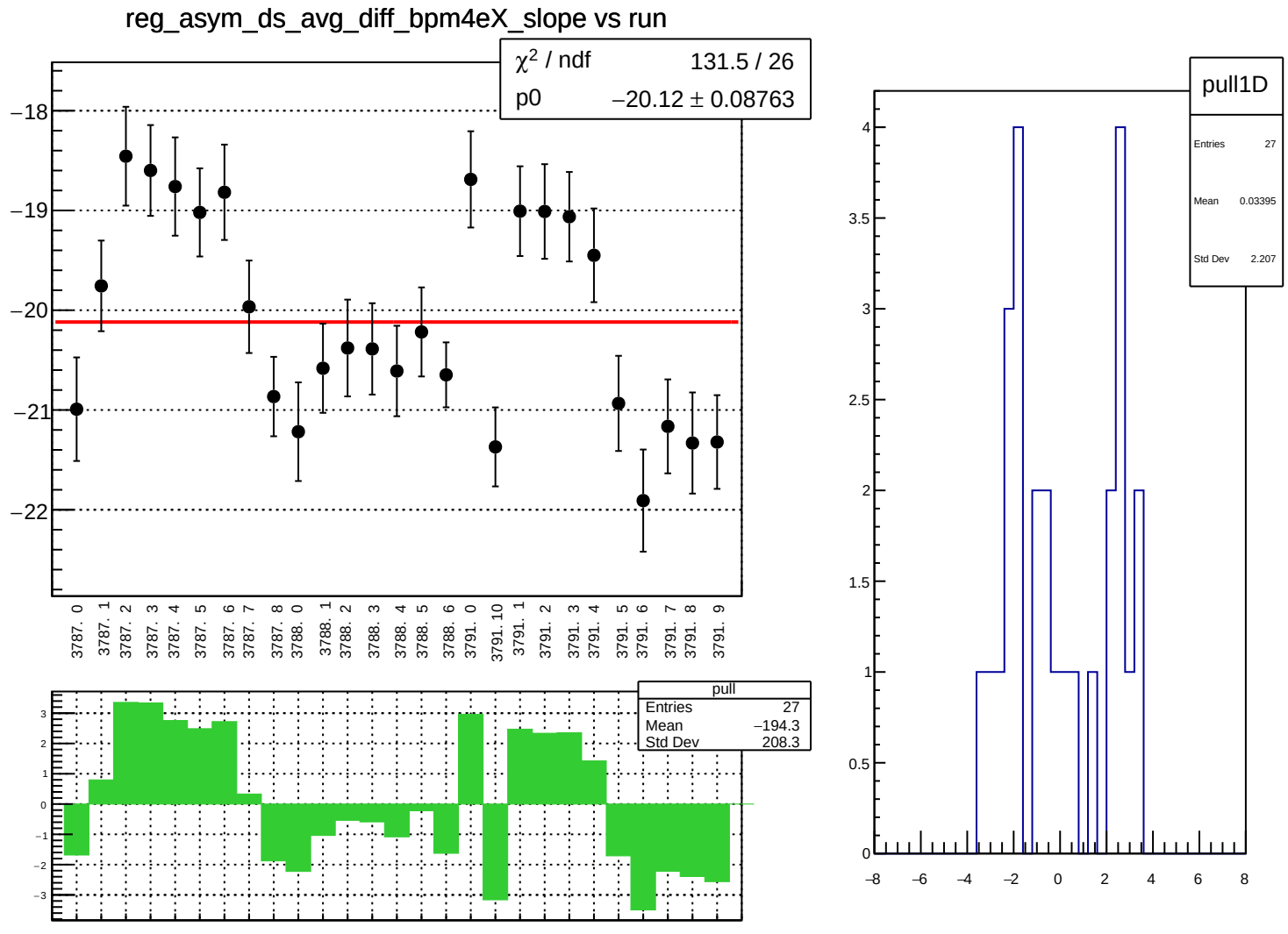

pull1D
Entries 27
Mean −0.001852
Std Dev 0.2316
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

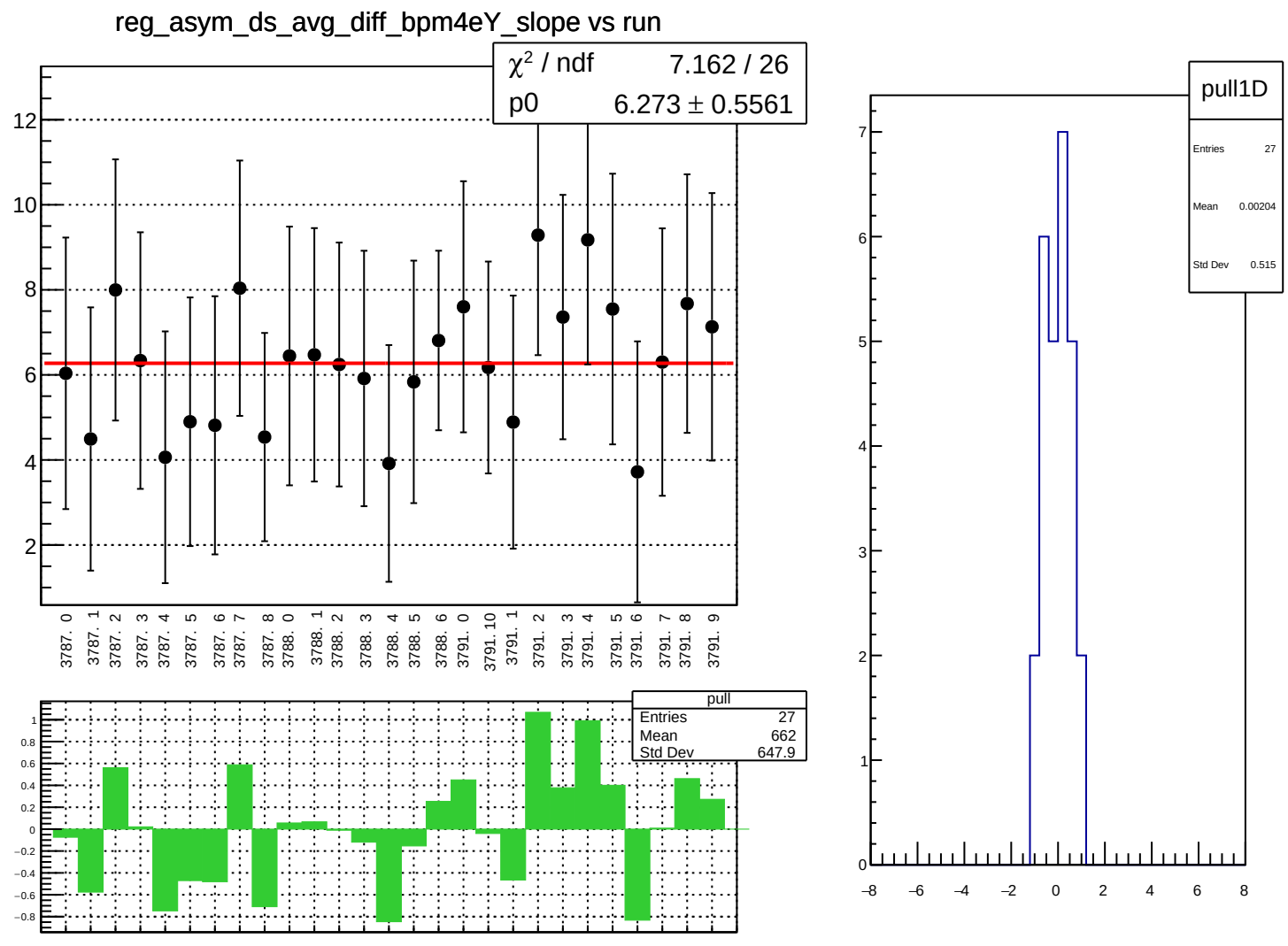

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.794 / 26
p0 −4.7 ± 0.4611
0
−2
−4
−6
−8
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −84.15
Std Dev 97.97
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

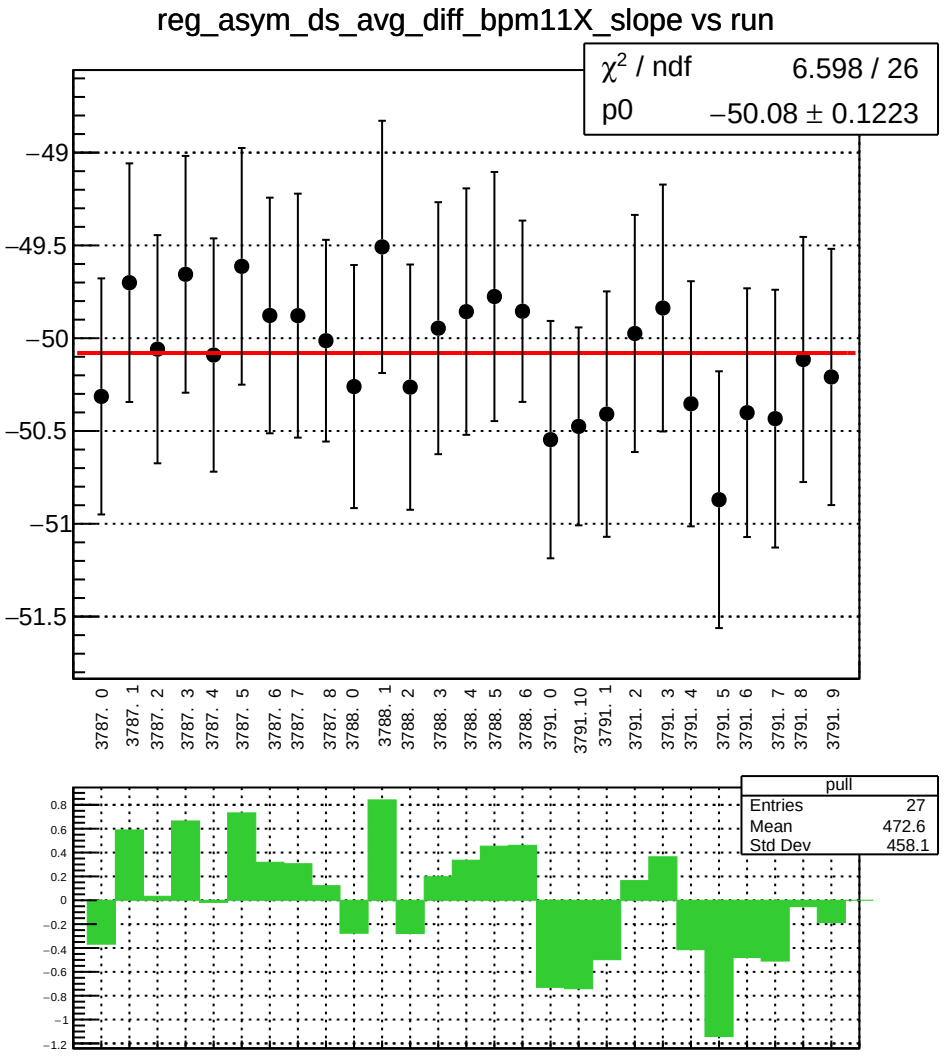

pull1D
Entries 27
Mean −0.007442
Std Dev 0.4632
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

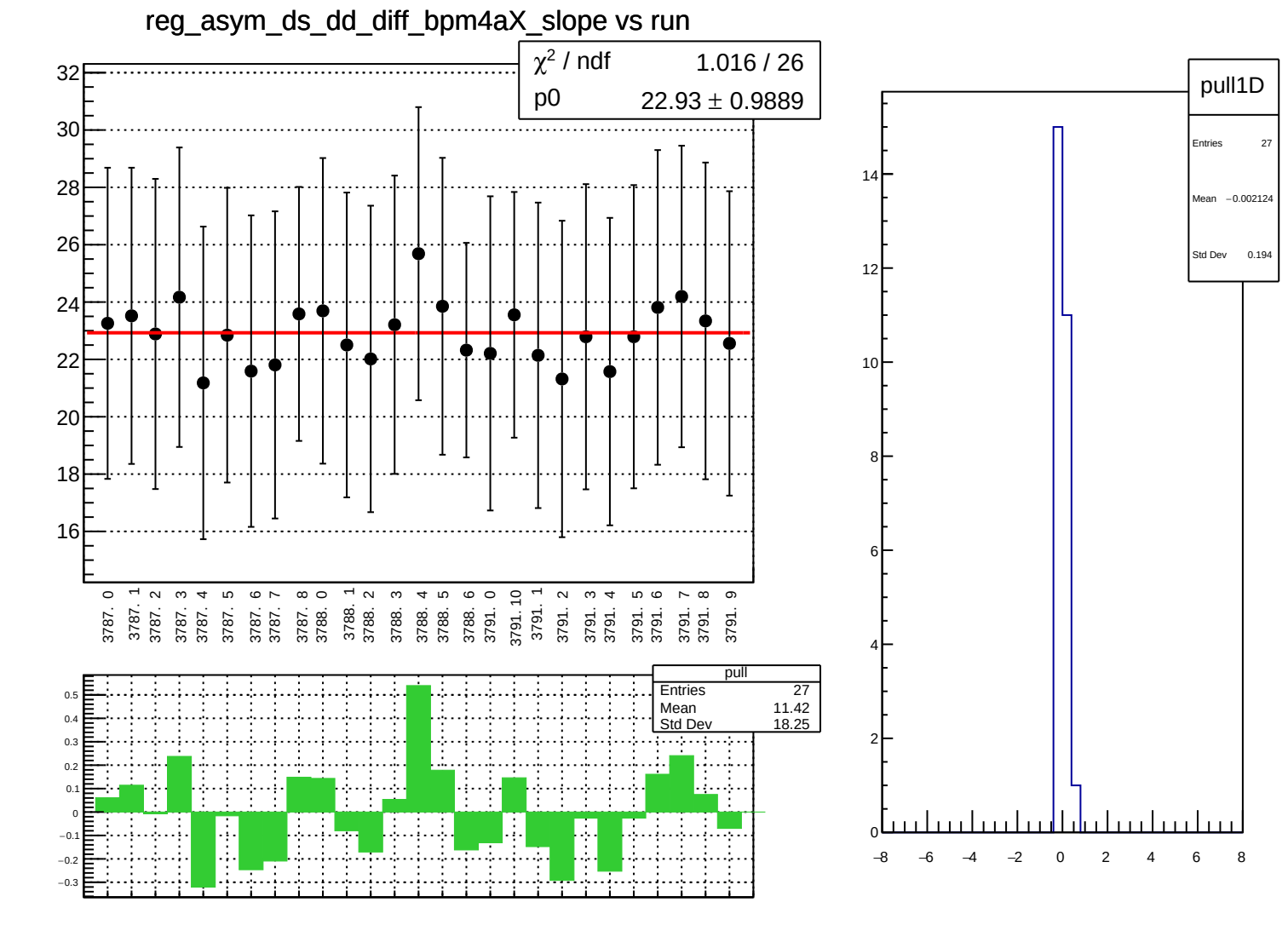

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.318 / 26
p0 5.311 ± 0.3556
pull
Entries 27
Mean 105.5
Std Dev 87.16

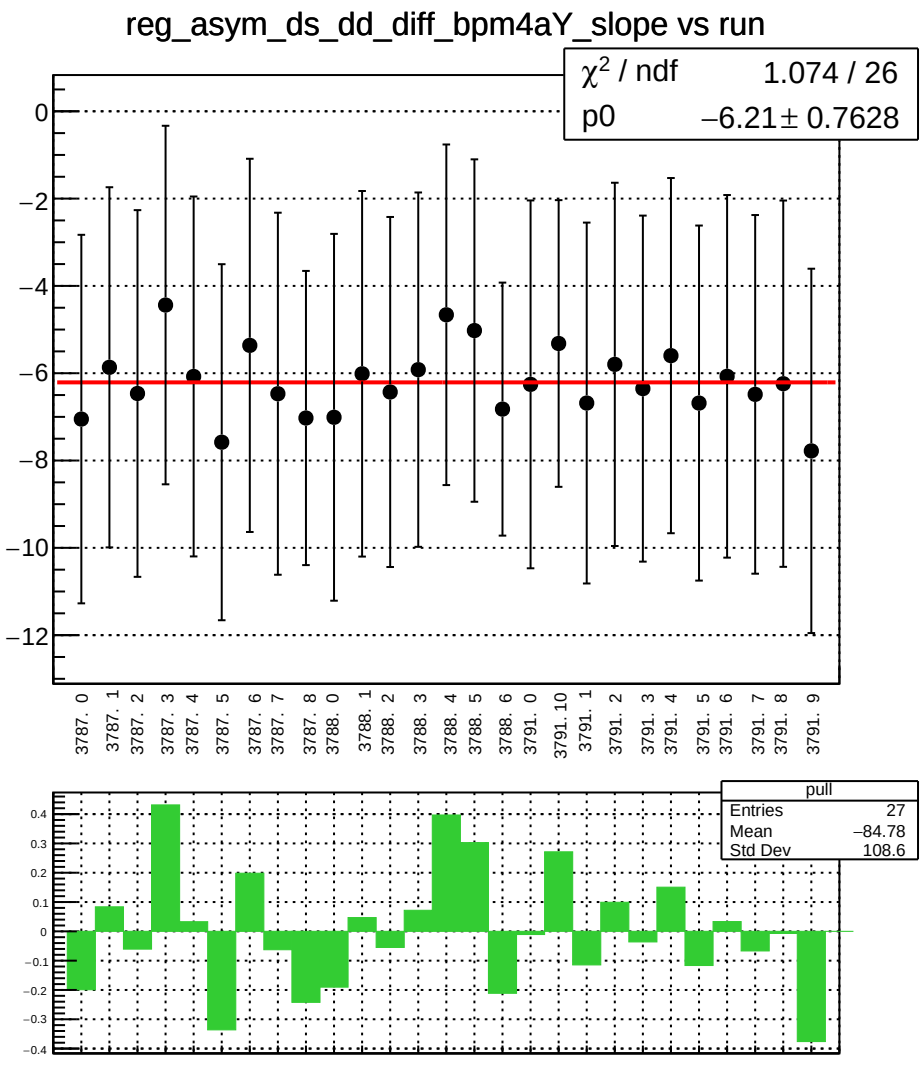

pull1D
Entries 27
Mean −0.00371
Std Dev 0.4837

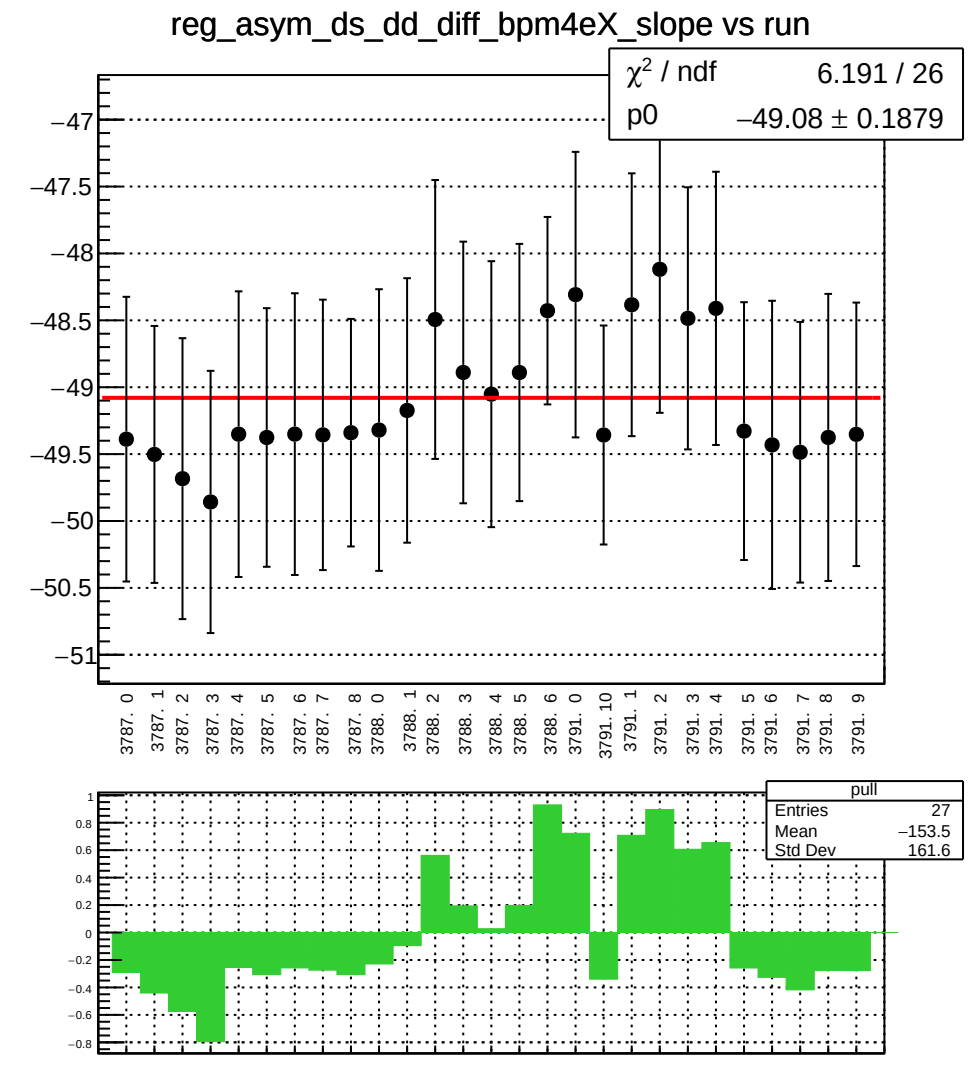

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 131.5 / 26
p0 −20.12 ± 0.08763
−18
−19
−20
−21
−22
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −194.3
Std Dev 208.3
pull1D
Entries 27
Mean 0.03395
Std Dev 2.207

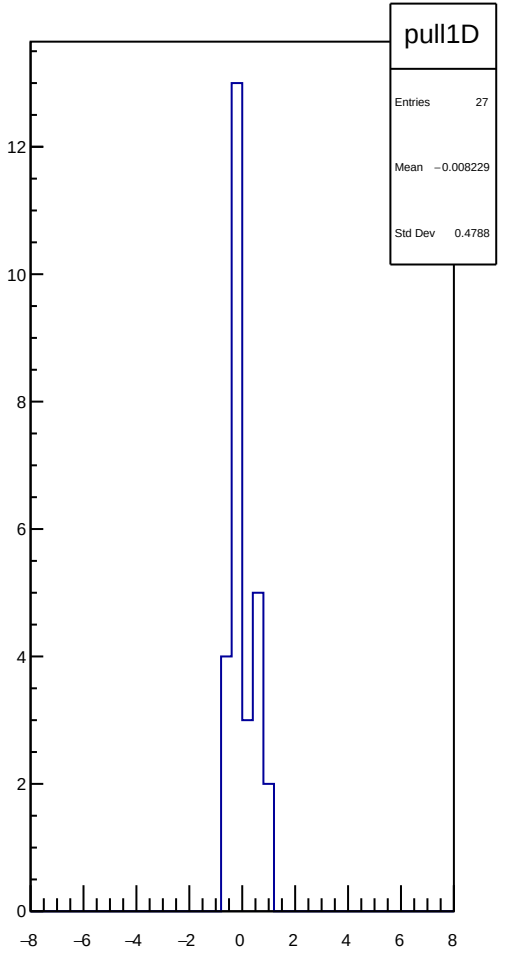

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.162 / 26
p0 6.273 ± 0.5561
12
10
8
6
4
2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 662
Std Dev 647.9
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 27
Mean 0.00204
Std Dev 0.515
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

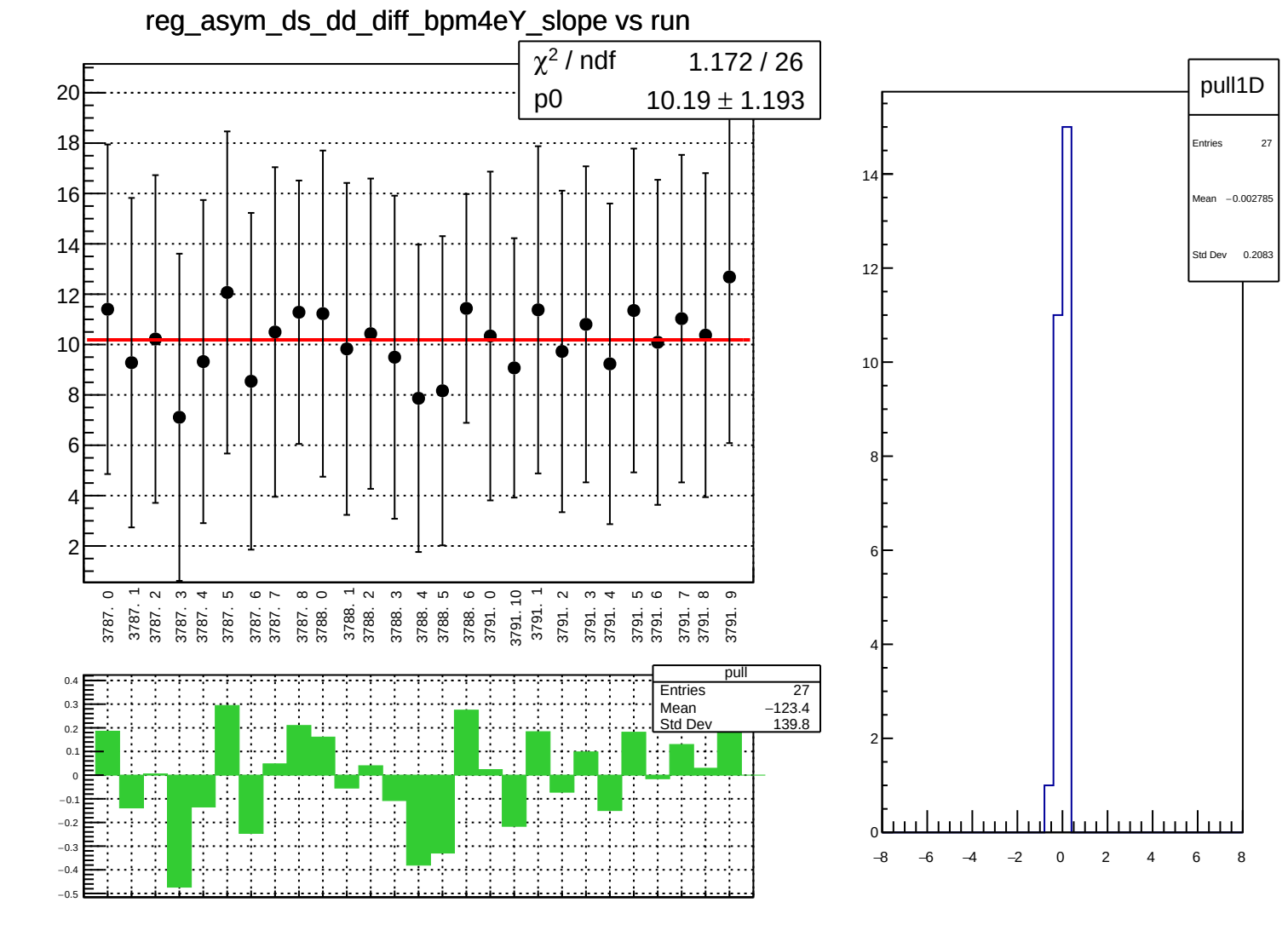

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 6.598 / 26
p0 −50.08 ± 0.1223
−49
−49.5
−50
−50.5
−51
−51.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 472.6
Std Dev 458.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 27
Mean −0.004077
Std Dev 0.4943
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

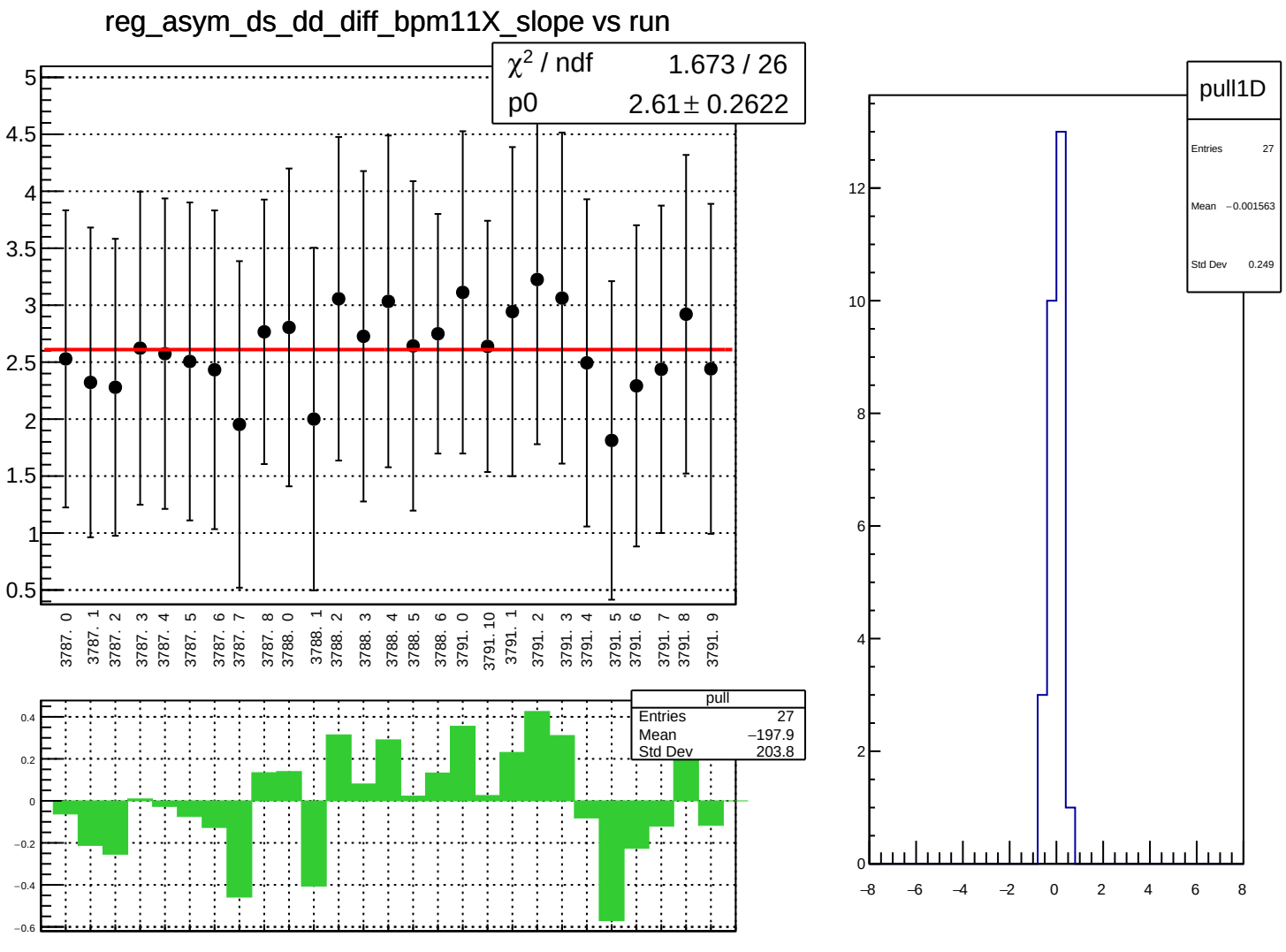

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.016 / 26
p0 22.93 ± 0.9889
32
30
28
26
24
22
20
18
16
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 11.42
Std Dev 18.25
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 27
Mean −0.002124
Std Dev 0.194
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

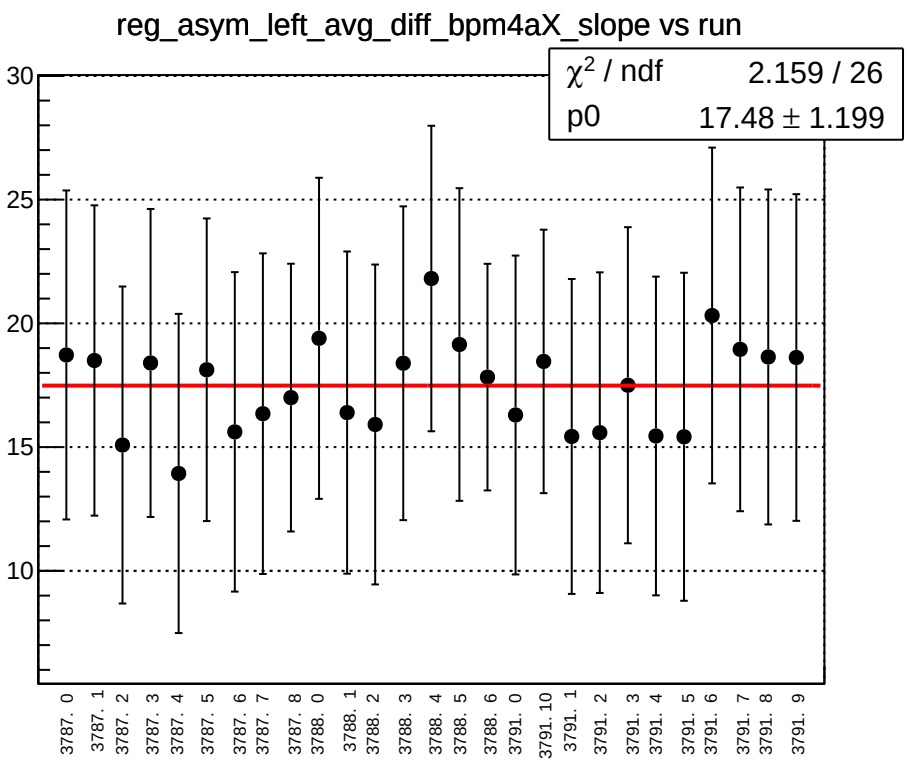

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.074 / 26
p0 −6.21 ± 0.7628
0
−2
−4
−6
−8
−10
−12
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −84.78
Std Dev 108.6
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 27
Mean 0.001254
Std Dev 0.1995
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

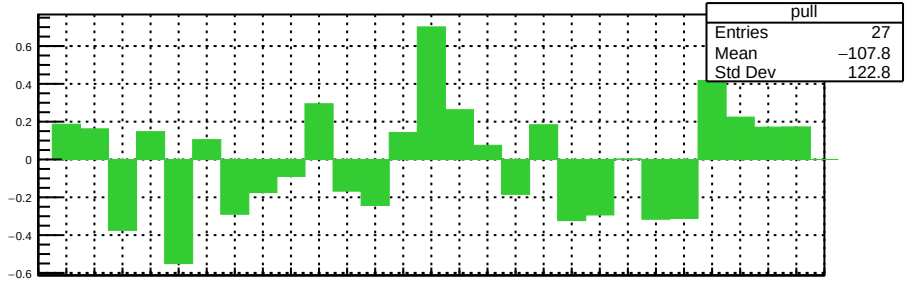

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.191 / 26
p0 −49.08 ± 0.1879
−47
−47.5
−48
−48.5
−49
−49.5
−50
−50.5
−51
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −153.5
Std Dev 161.6
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

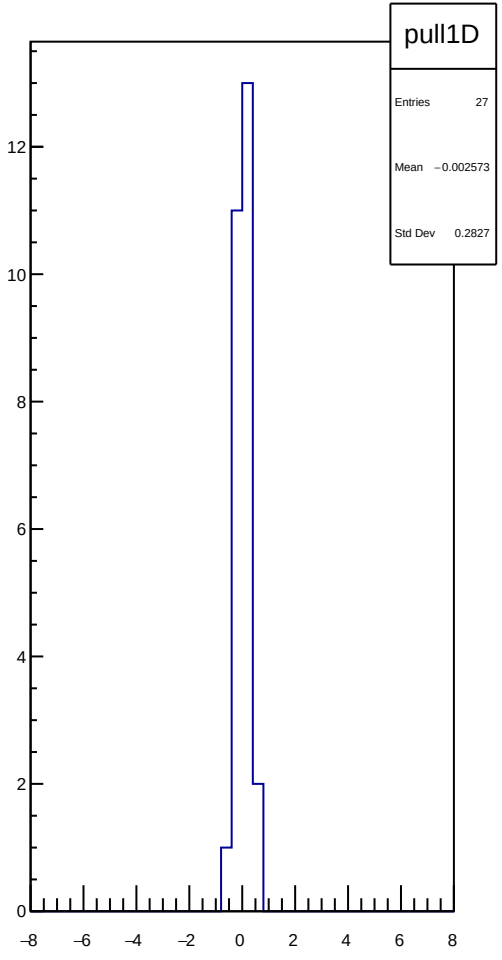

pull1D
Entries 27
Mean −0.008229
Std Dev 0.4788
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

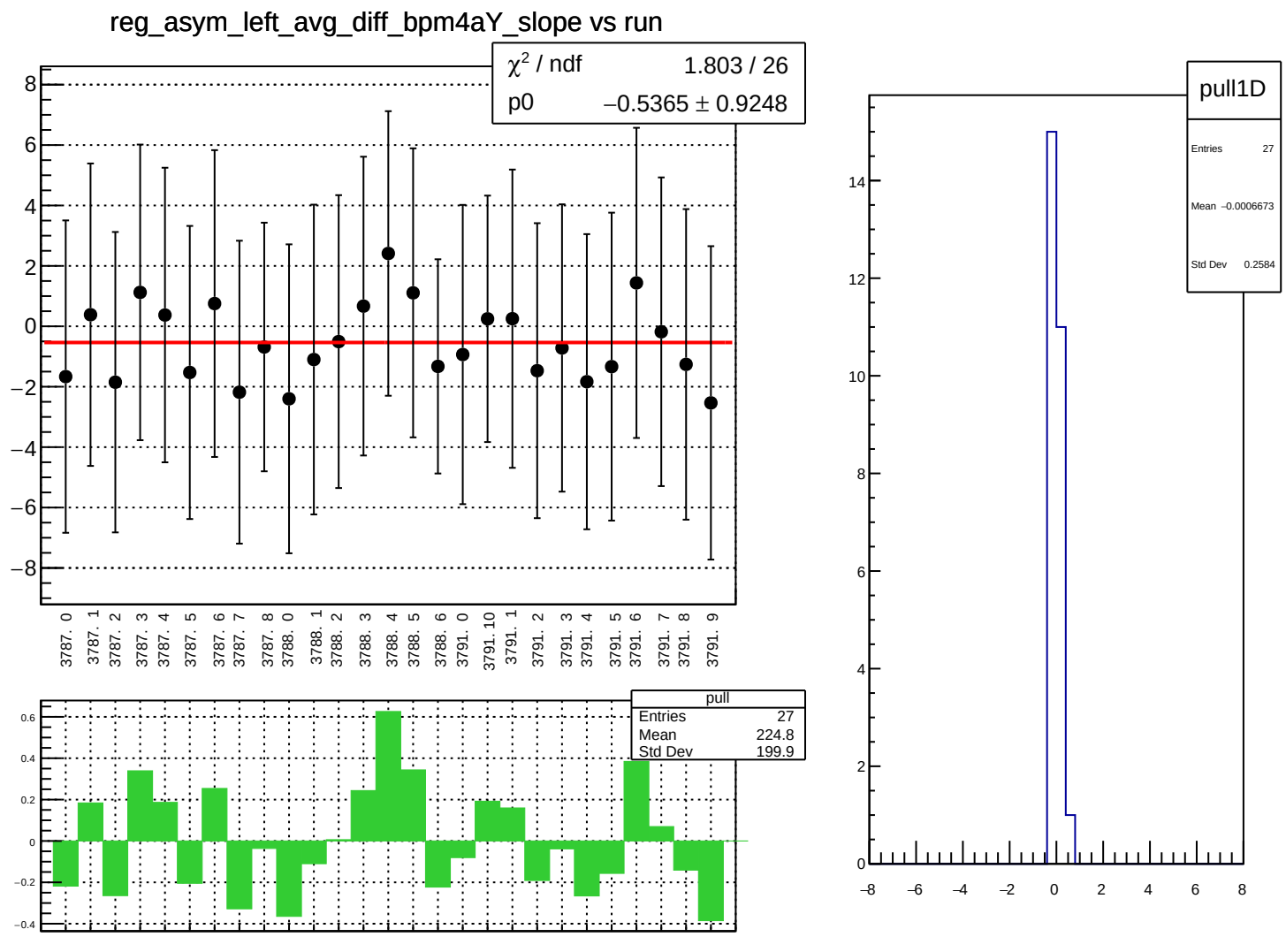

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.172 / 26
p0 10.19 ± 1.193
20
18
16
14
12
10
8
6
4
2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −123.4
Std Dev 139.8
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 27
Mean −0.002785
Std Dev 0.2083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

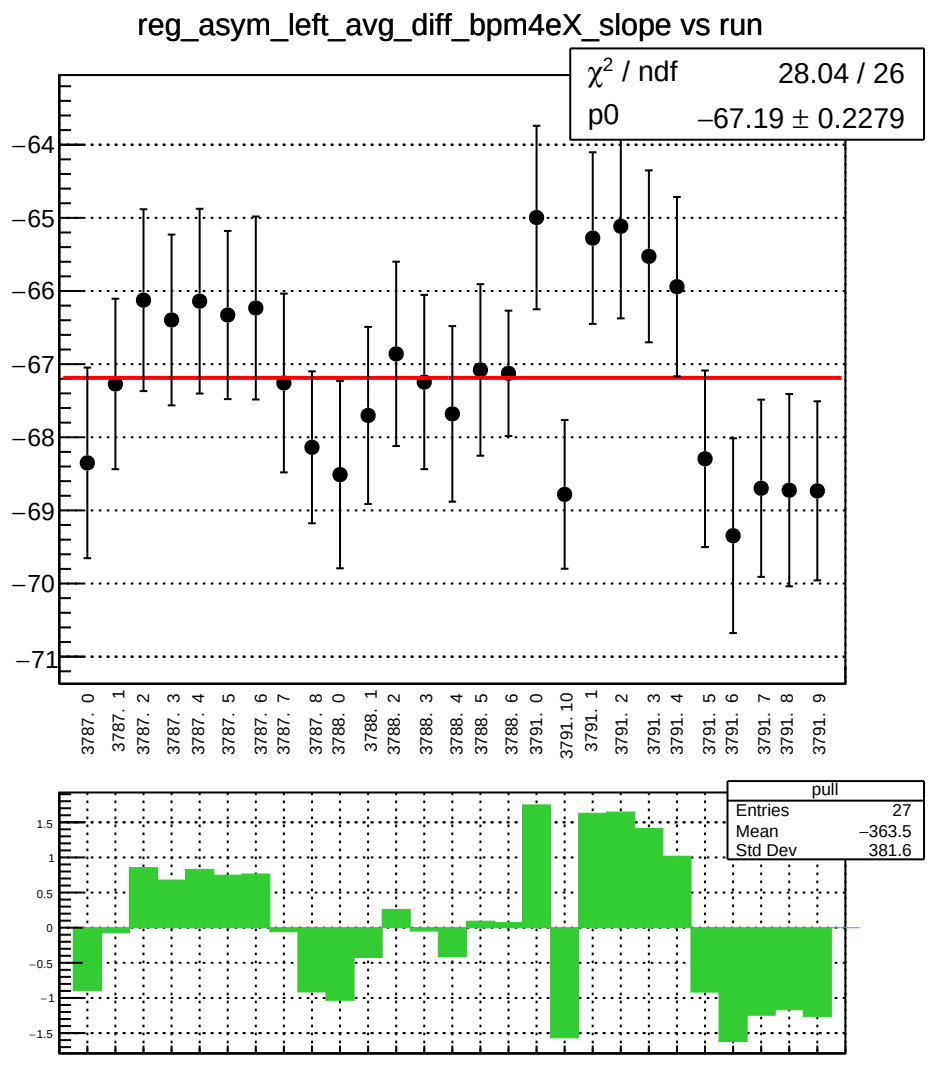

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 1.673 / 26
p0 2.61 ± 0.2622
pull
Entries 27
Mean −197.9
Std Dev 203.8
pull1D
Entries 27
Mean −0.001563
Std Dev 0.249

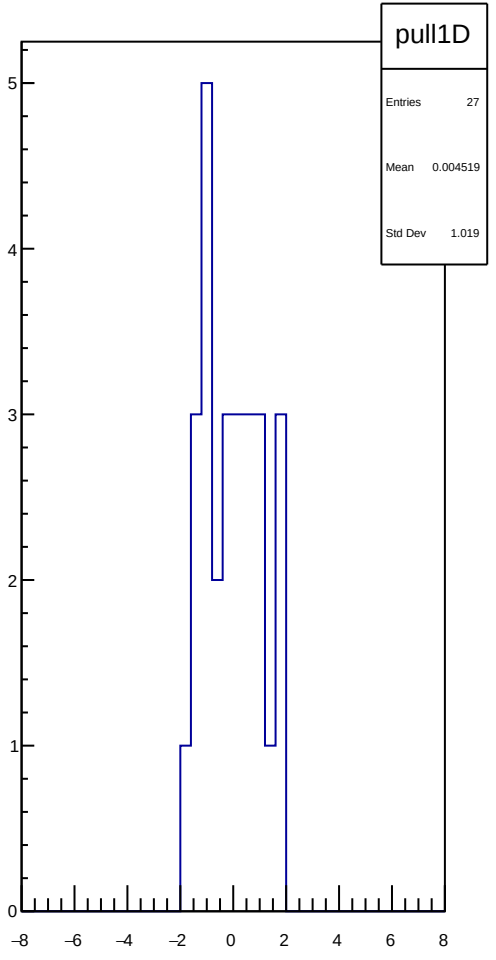

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ^2 / ndf 2.159 / 26
p0 17.48 ± 1.199
30
25
20
15
10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9

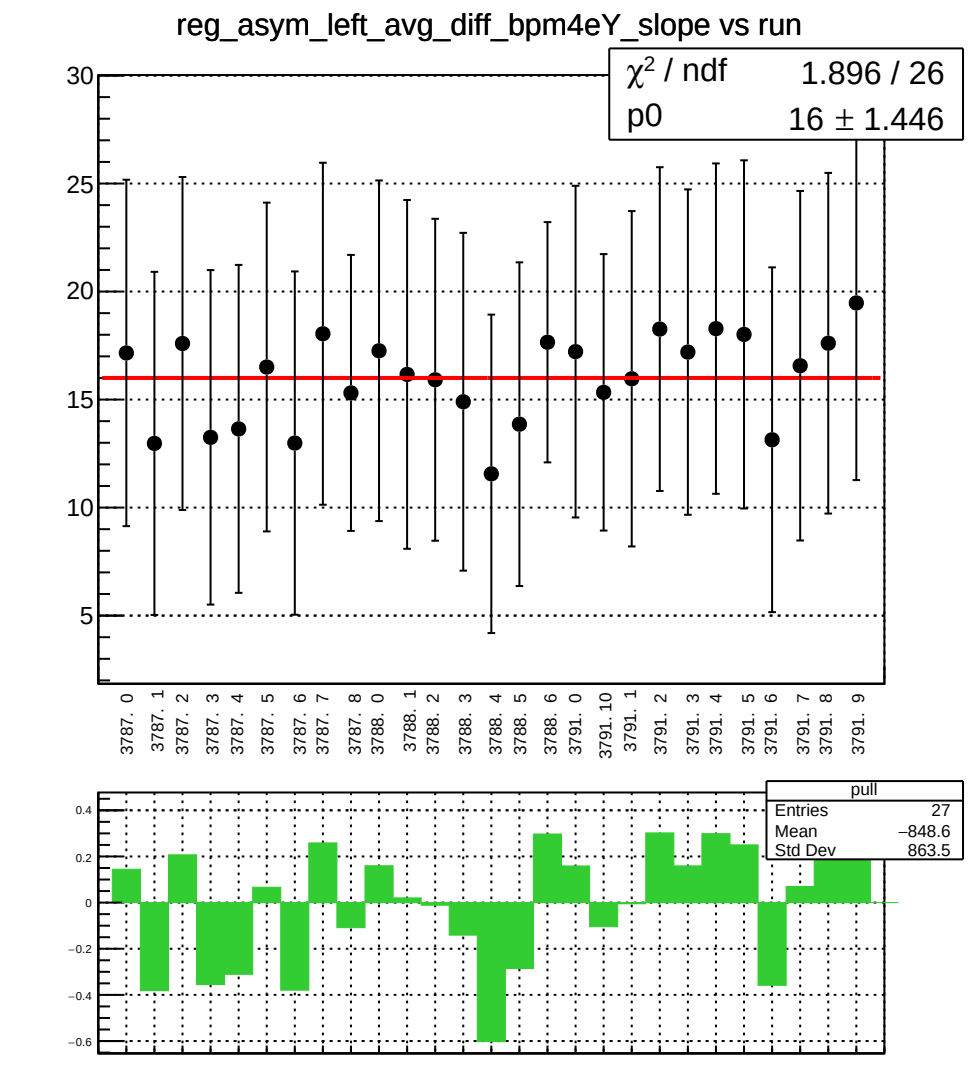

pull
Entries 27
Mean −107.8
Std Dev 122.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

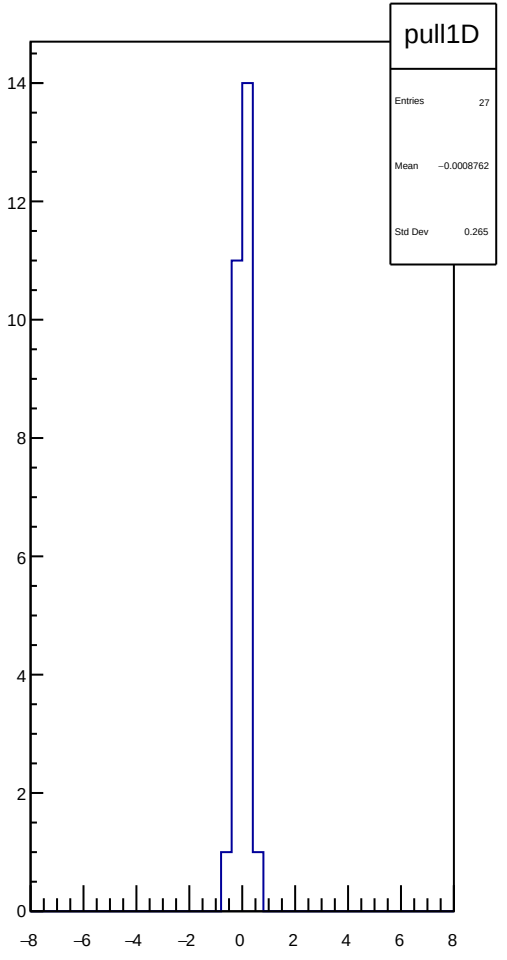

pull1D
Entries 27
Mean −0.002573
Std Dev 0.2827
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

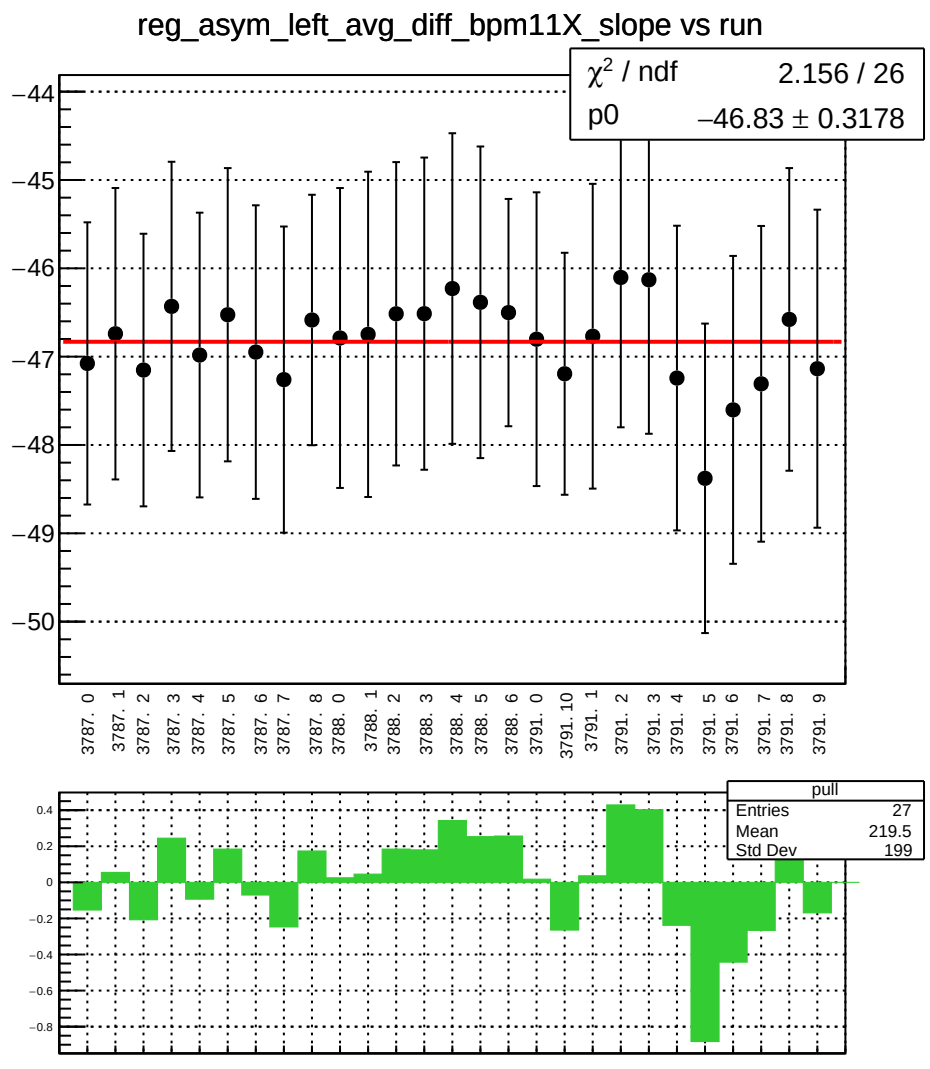

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.803 / 26
p0 −0.5365 ± 0.9248
8
6
4
2
0
−2
−4
−6
−8
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 224.8
Std Dev 199.9
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 27
Mean −0.0006673
Std Dev 0.2584
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

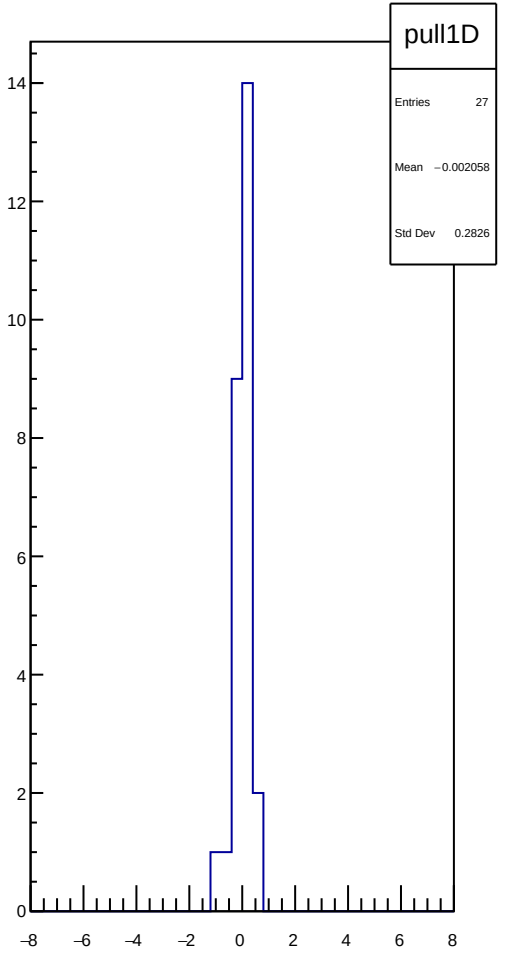

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.04 / 26
p0 −67.19 ± 0.2279
−64
−65
−66
−67
−68
−69
−70
−71
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −363.5
Std Dev 381.6
1.5
1
0.5
0
−0.5
−1
−1.5

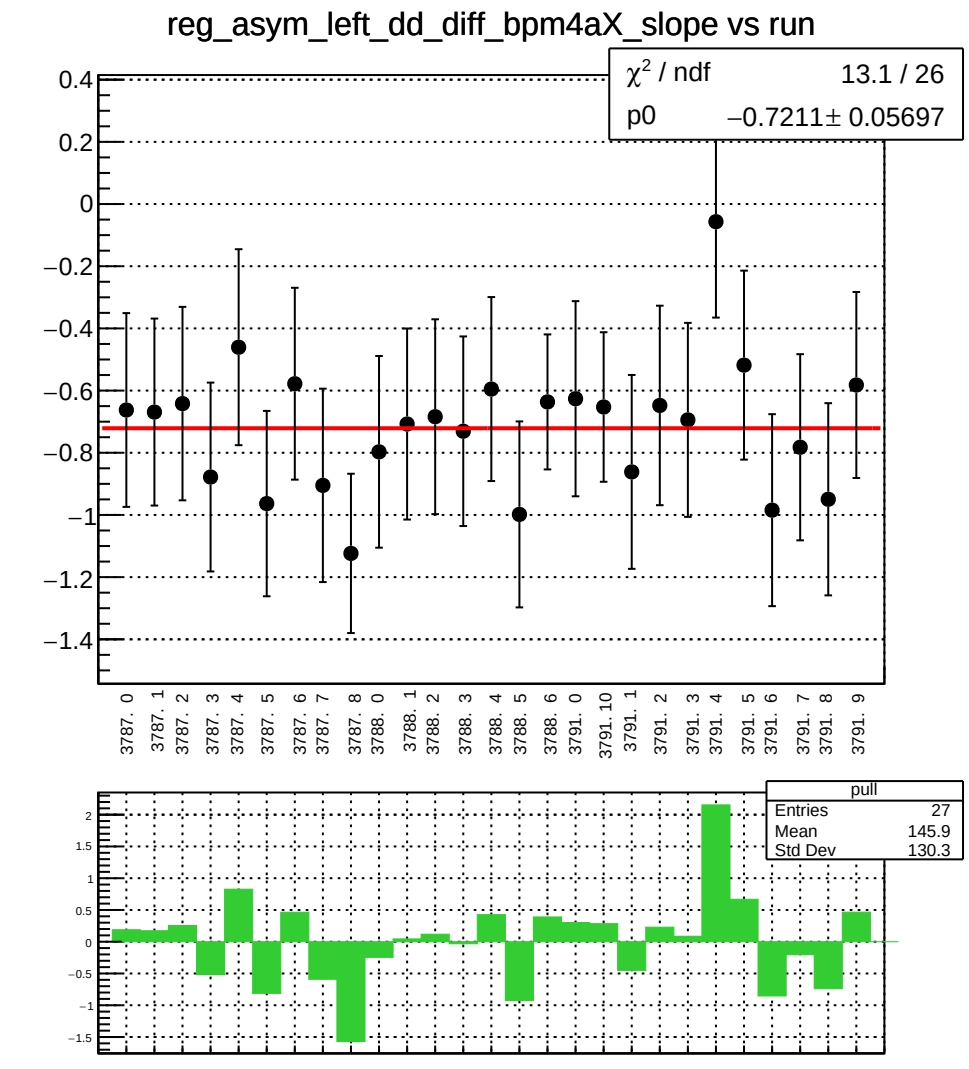

pull1D
Entries 27
Mean 0.004519
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

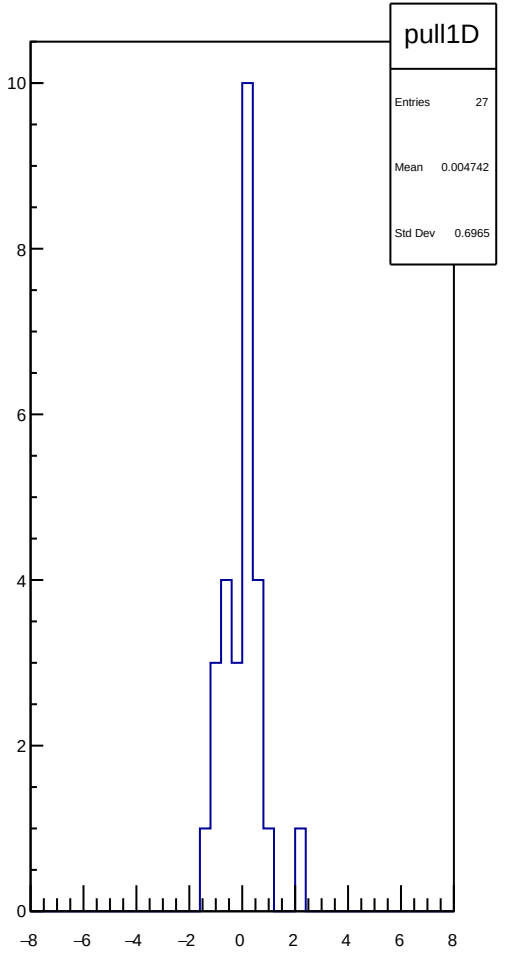

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.896 / 26
p0 16 ± 1.446
30
25
20
15
10
5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −848.6
Std Dev 863.5
0.4
0.2
0
−0.2
−0.4
−0.6

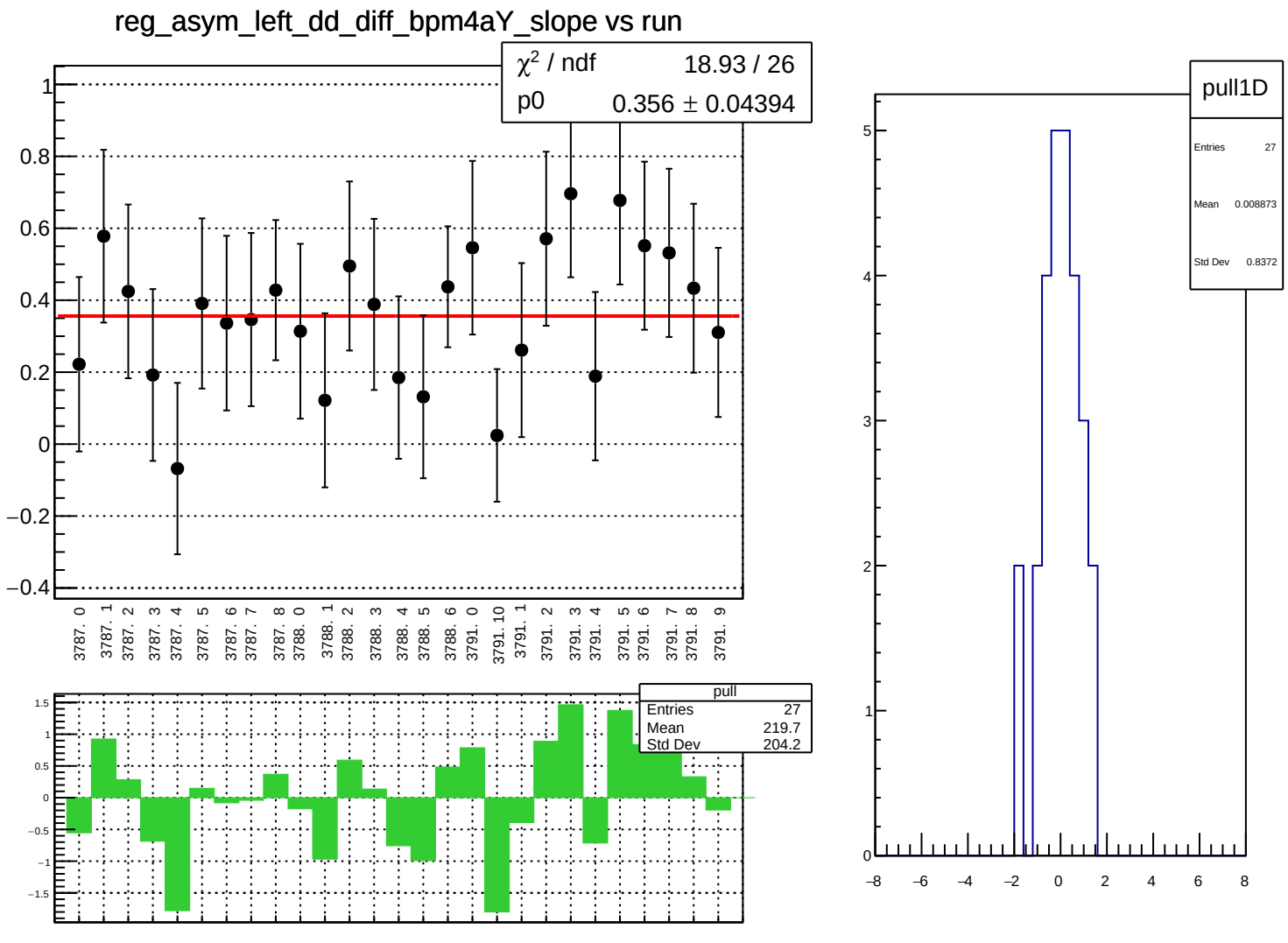

pull1D
Entries 27
Mean −0.0008762
Std Dev 0.265
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

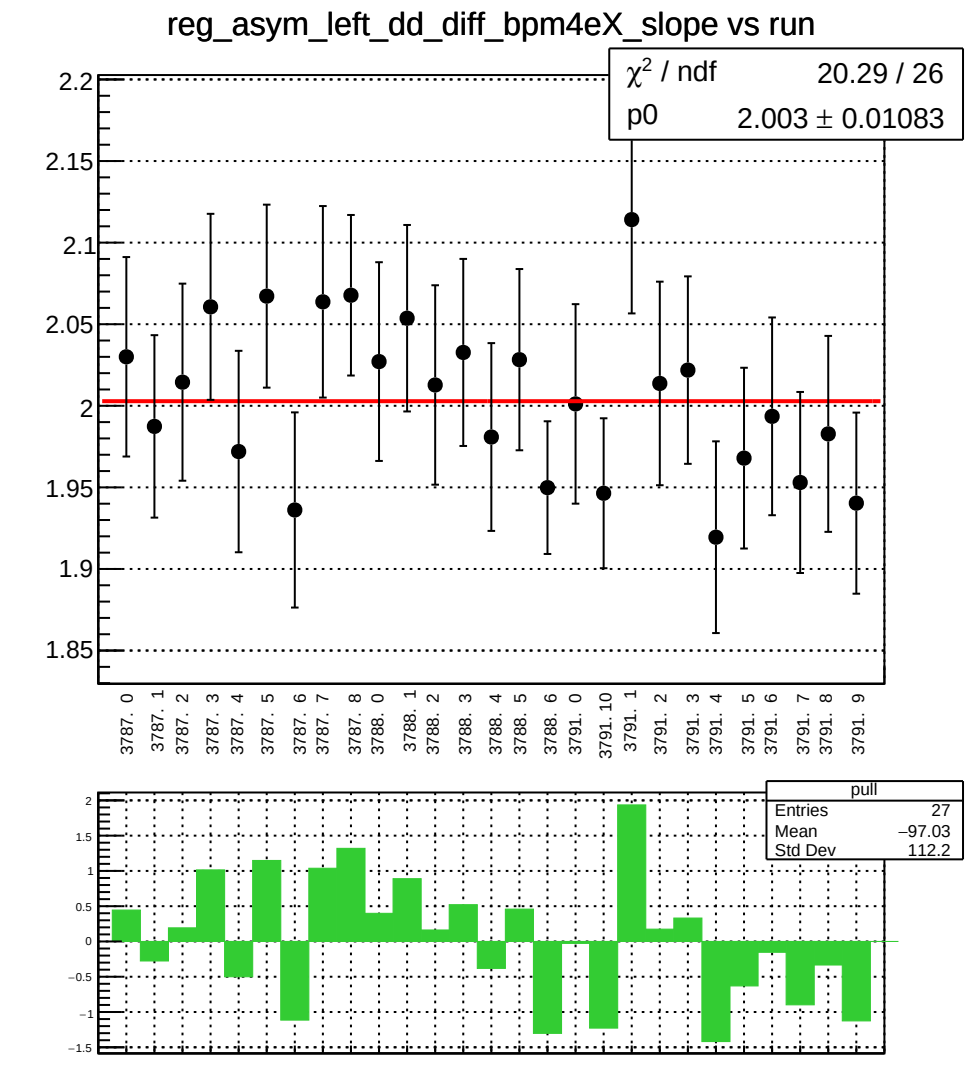

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 2.156 / 26
p0 −46.83 ± 0.3178
−44
−45
−46
−47
−48
−49
−50
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 219.5
Std Dev 199
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

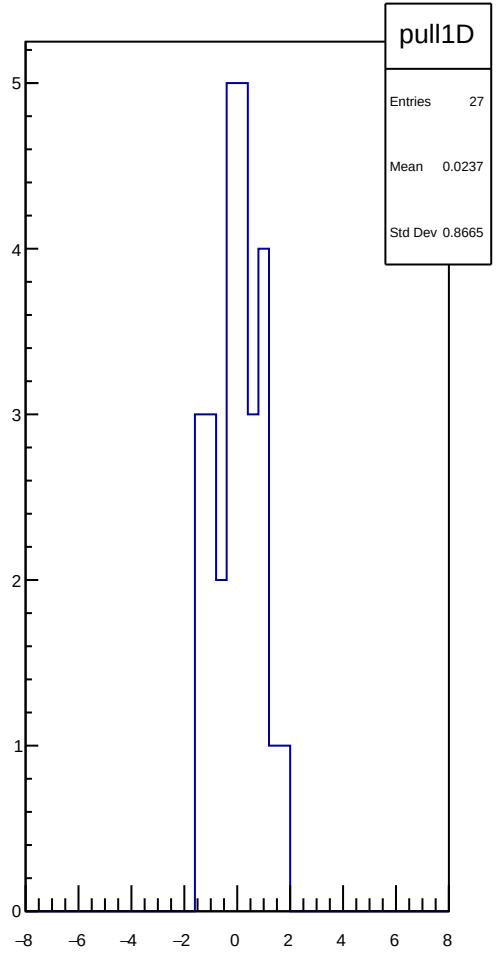

pull1D
Entries 27
Mean −0.002058
Std Dev 0.2826
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

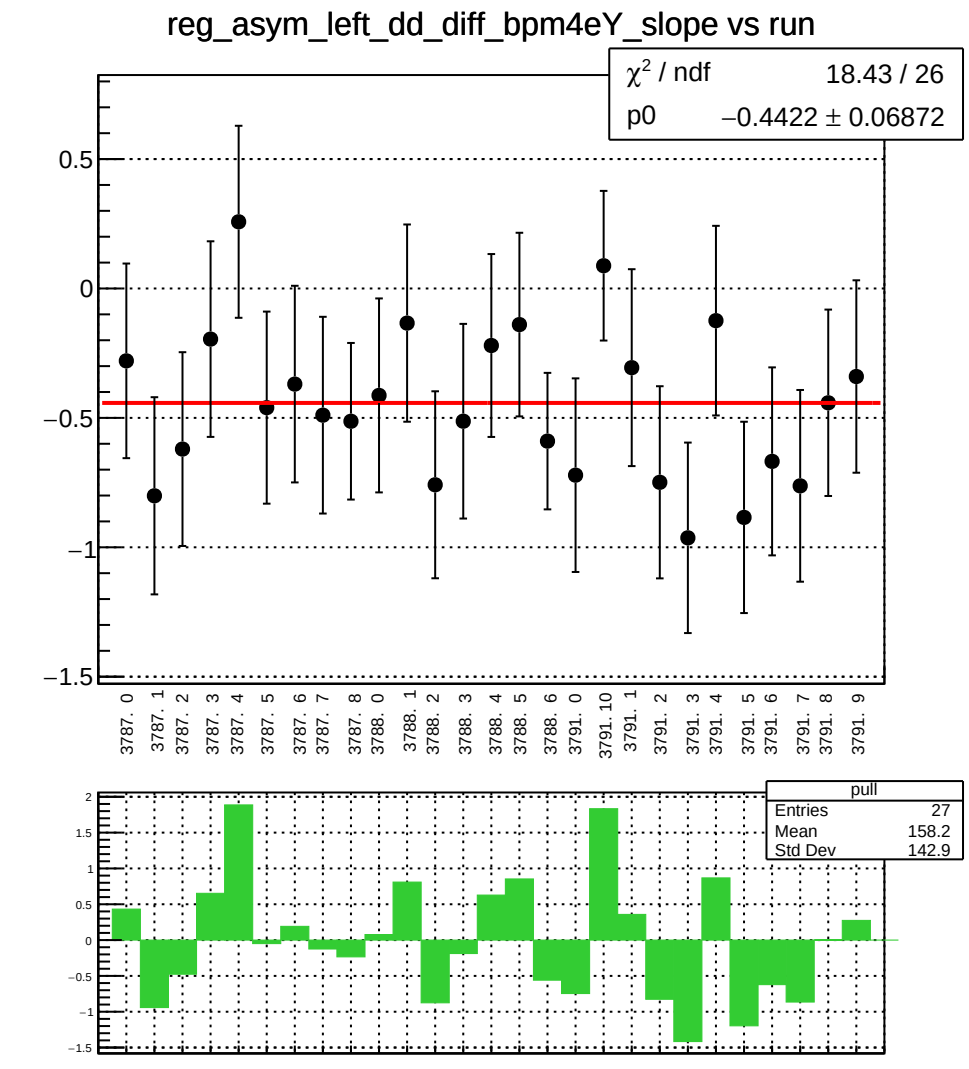

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 13.1 / 26
p0 −0.7211± 0.05697
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 145.9
Std Dev 130.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

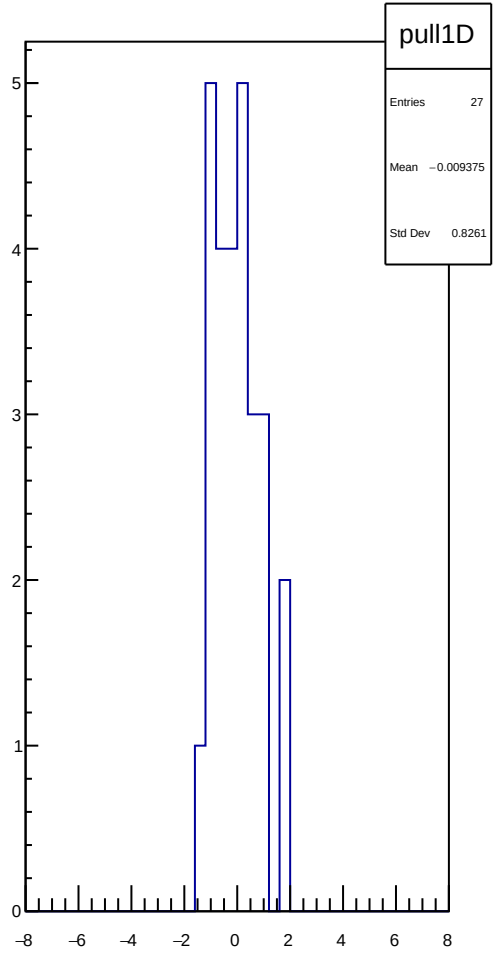

pull1D
Entries 27
Mean 0.004742
Std Dev 0.6965
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

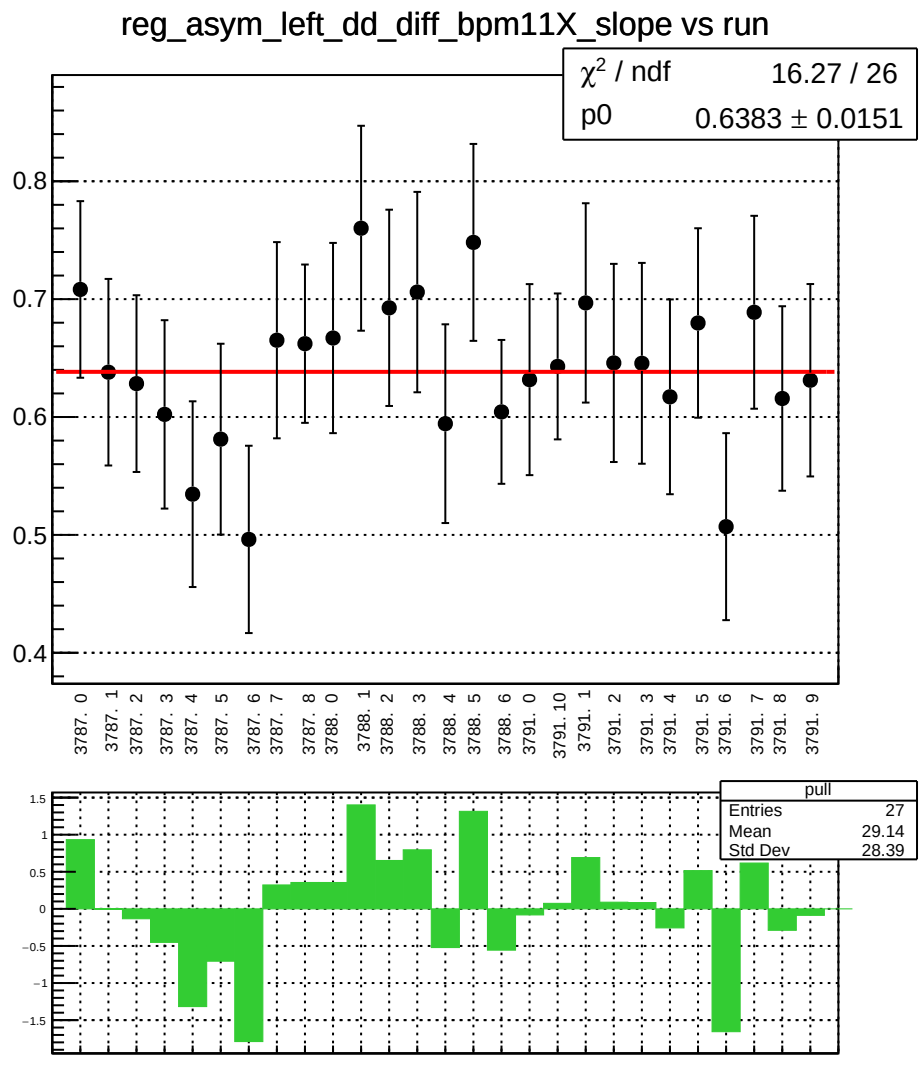

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.93 / 26
p0 0.356 ± 0.04394
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 219.7
Std Dev 204.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean 0.008873
Std Dev 0.8372
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

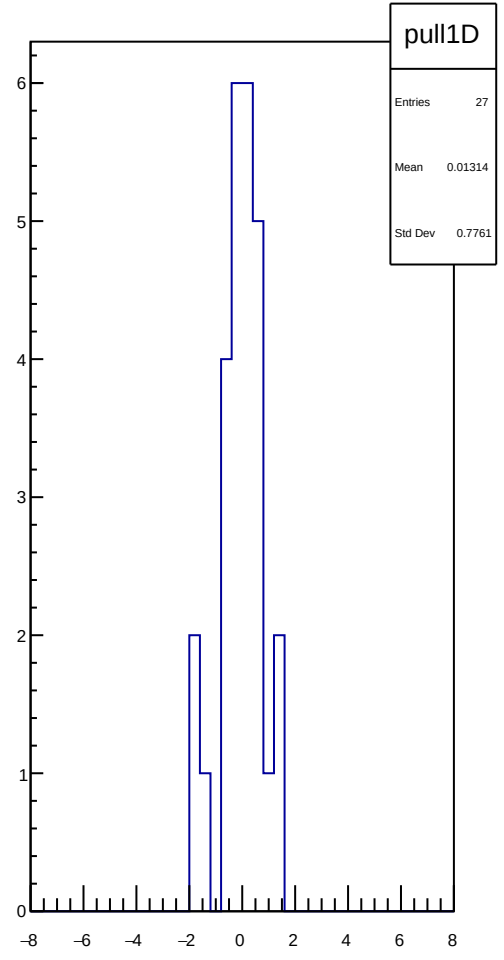

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.29 / 26
p0 2.003 ± 0.01083
2.2
2.15
2.1
2.05
2
1.95
1.9
1.85
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −97.03
Std Dev 112.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

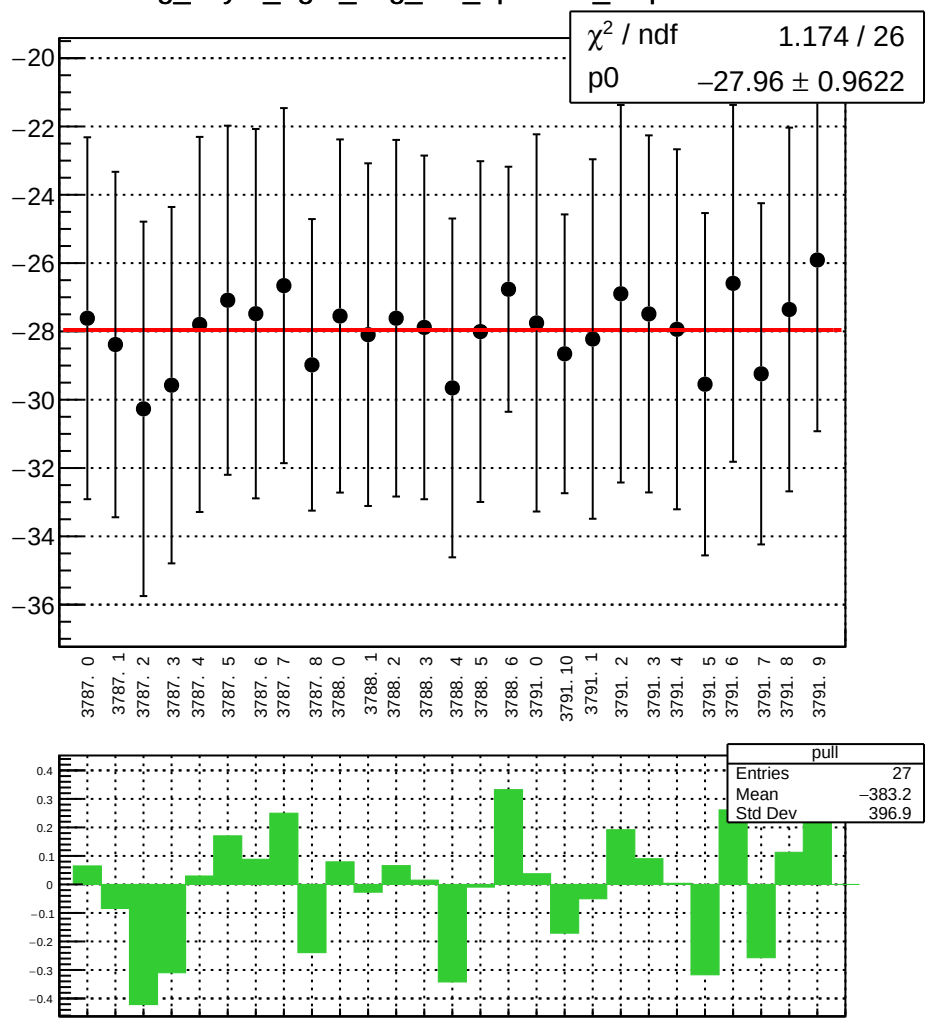

pull1D
Entries 27
Mean 0.0237
Std Dev 0.8665
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

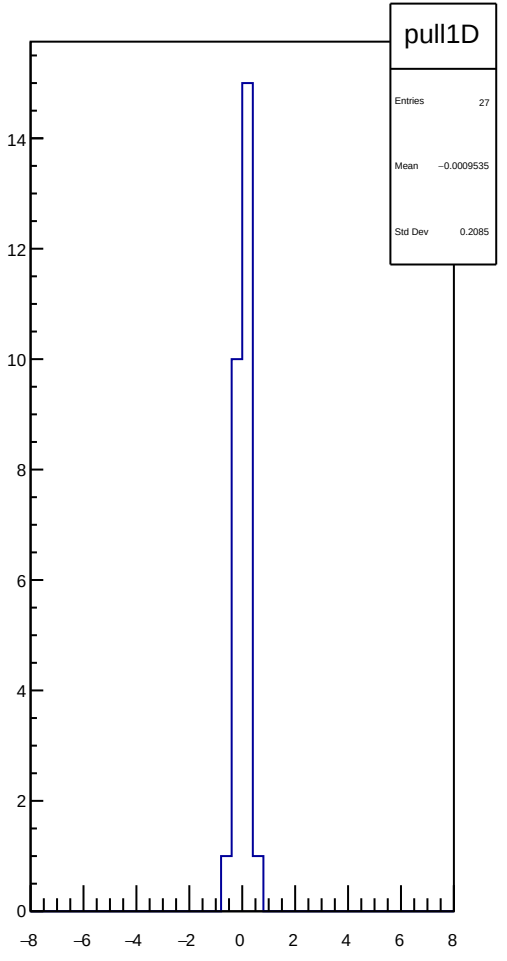

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.43 / 26
p0 −0.4422 ± 0.06872
0.5
0
−0.5
−1
−1.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 158.2
Std Dev 142.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

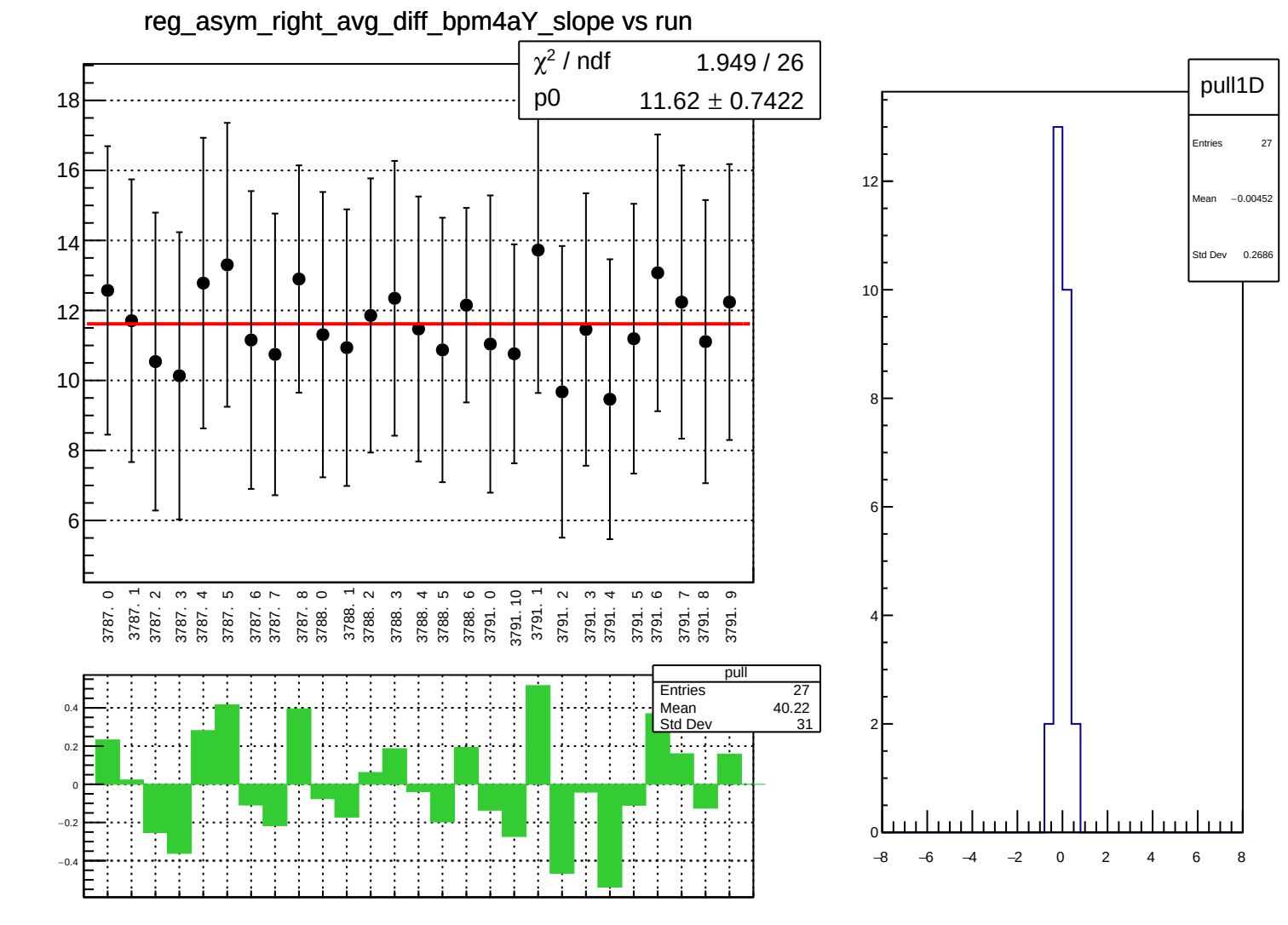

pull1D
Entries 27
Mean −0.009375
Std Dev 0.8261
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

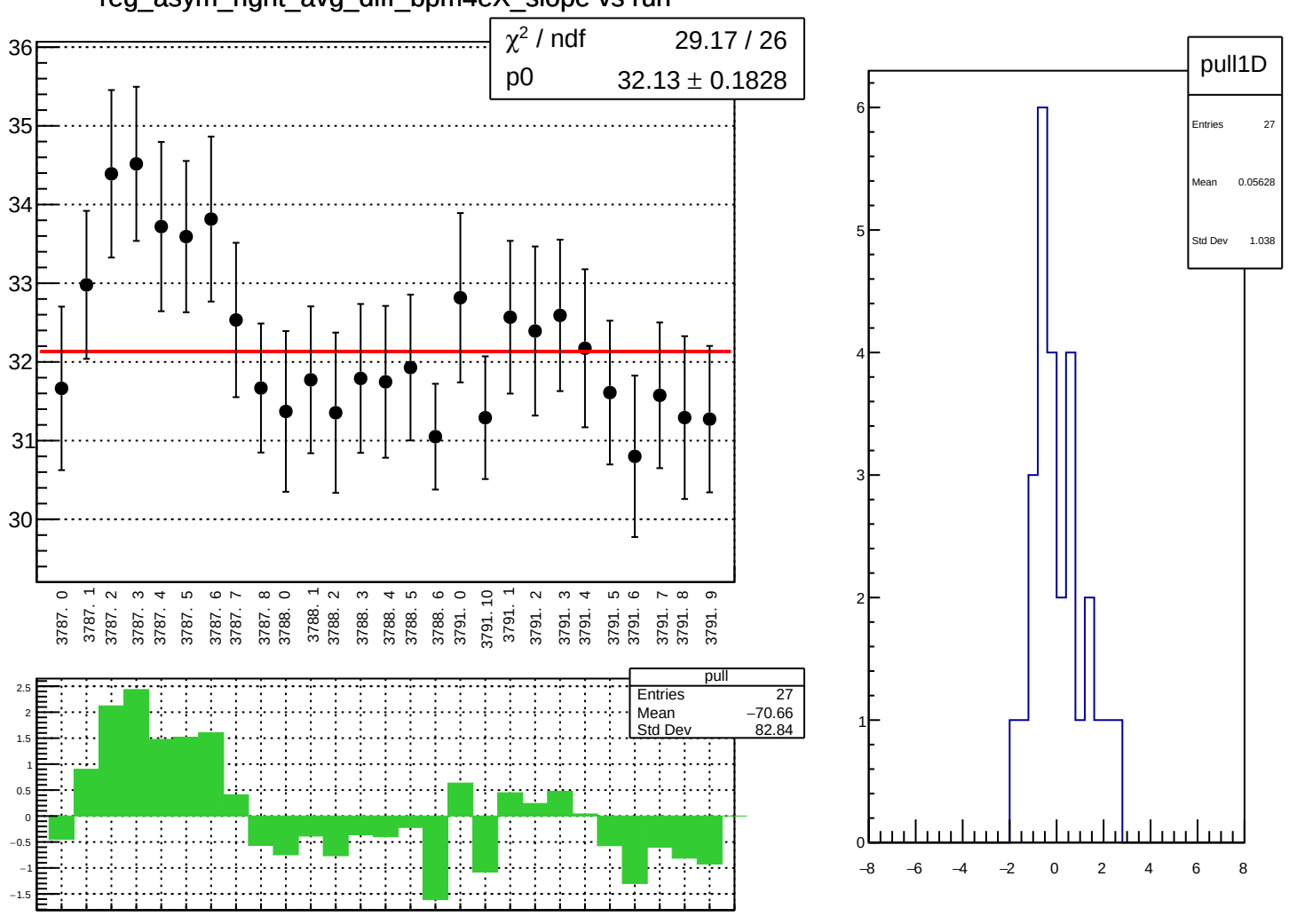

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 16.27 / 26
p0 0.6383 ± 0.0151
0.8
0.7
0.6
0.5
0.4
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 29.14
Std Dev 28.39
1.5
1
0.5
0
−0.5
−1
−1.5

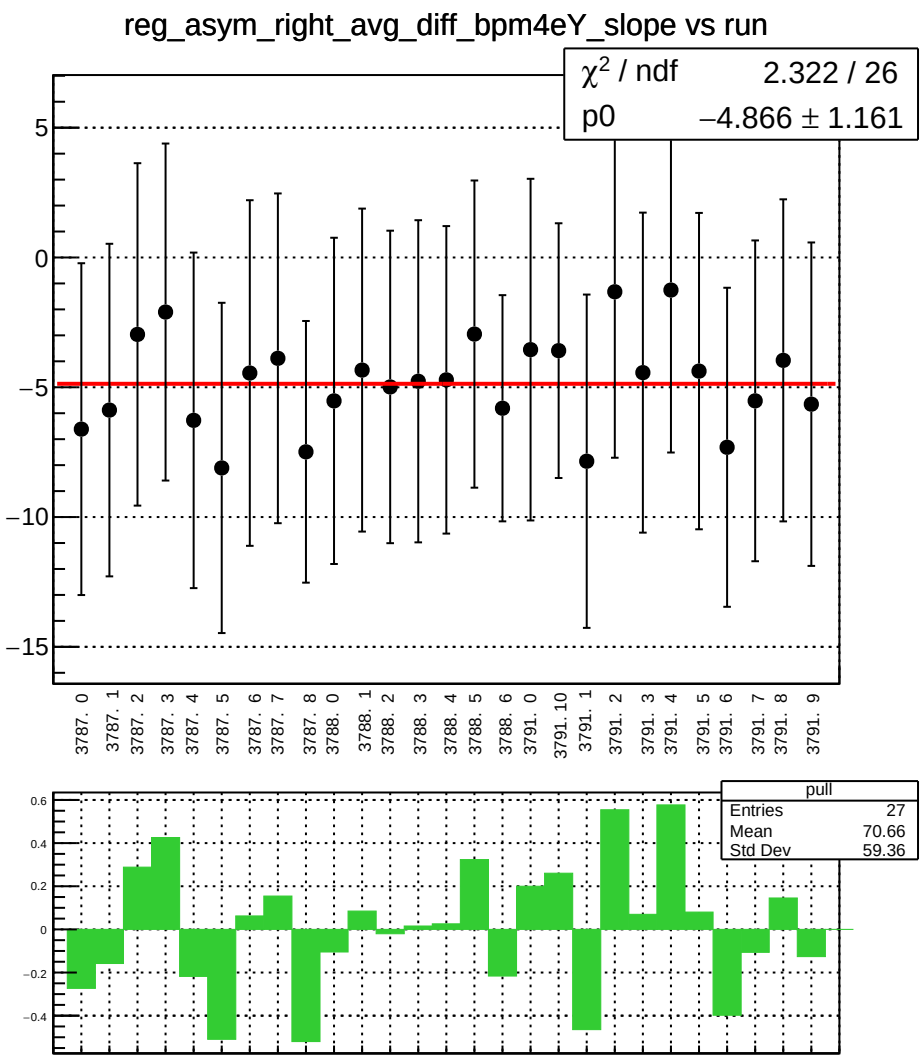

pull1D
Entries 27
Mean 0.01314
Std Dev 0.7761
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

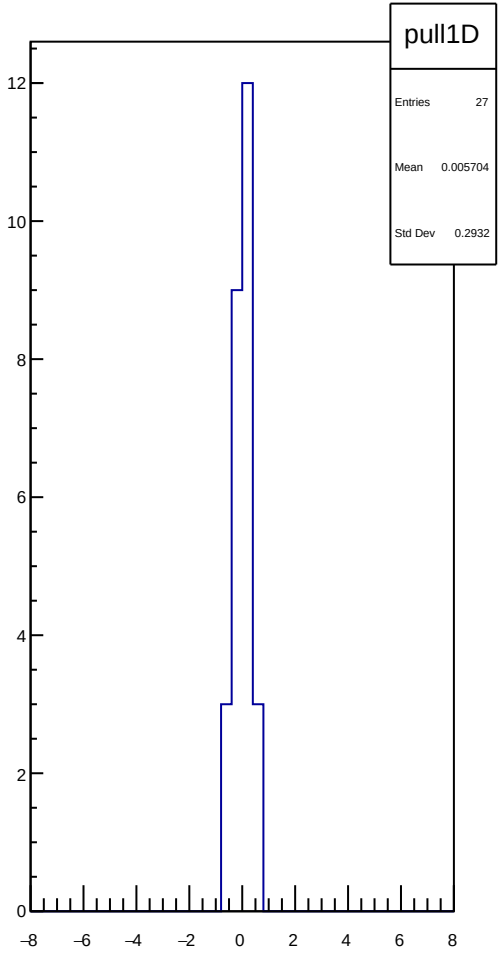

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.174 / 26
p0 −27.96 ± 0.9622
−20
−22
−24
−26
−28
−30
−32
−34
−36
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −383.2
Std Dev 396.9
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

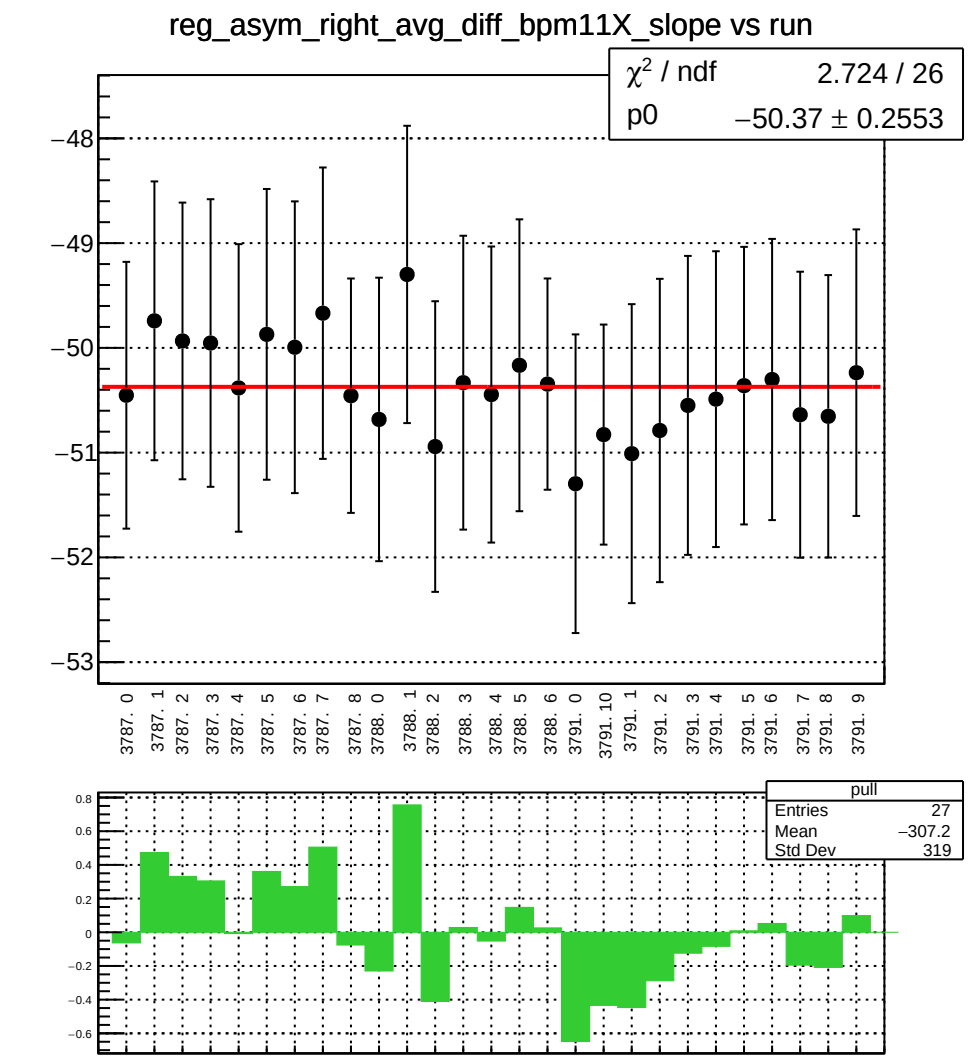

pull1D
Entries 27
Mean −0.0009535
Std Dev 0.2085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

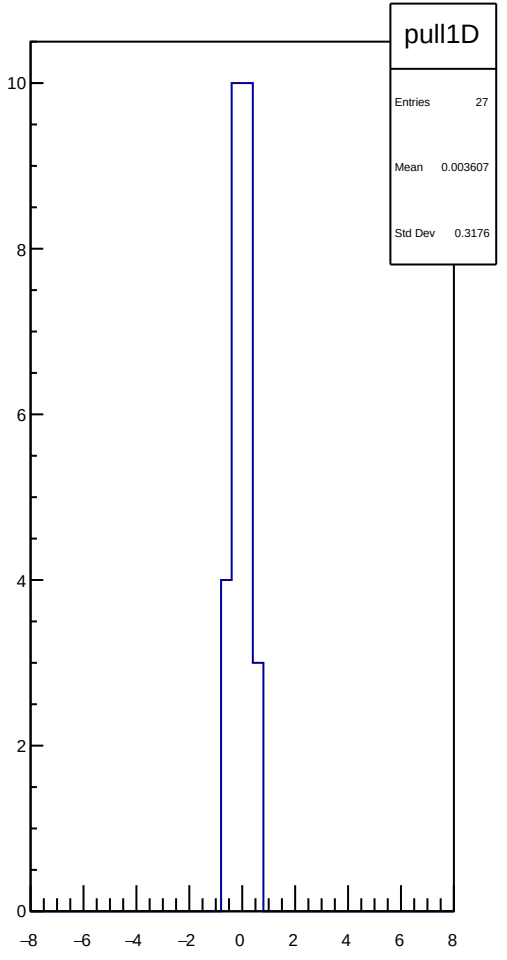

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.949 / 26
p0 11.62 ± 0.7422
18
16
14
12
10
8
6
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 40.22
Std Dev 31
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 27
Mean −0.00452
Std Dev 0.2686
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

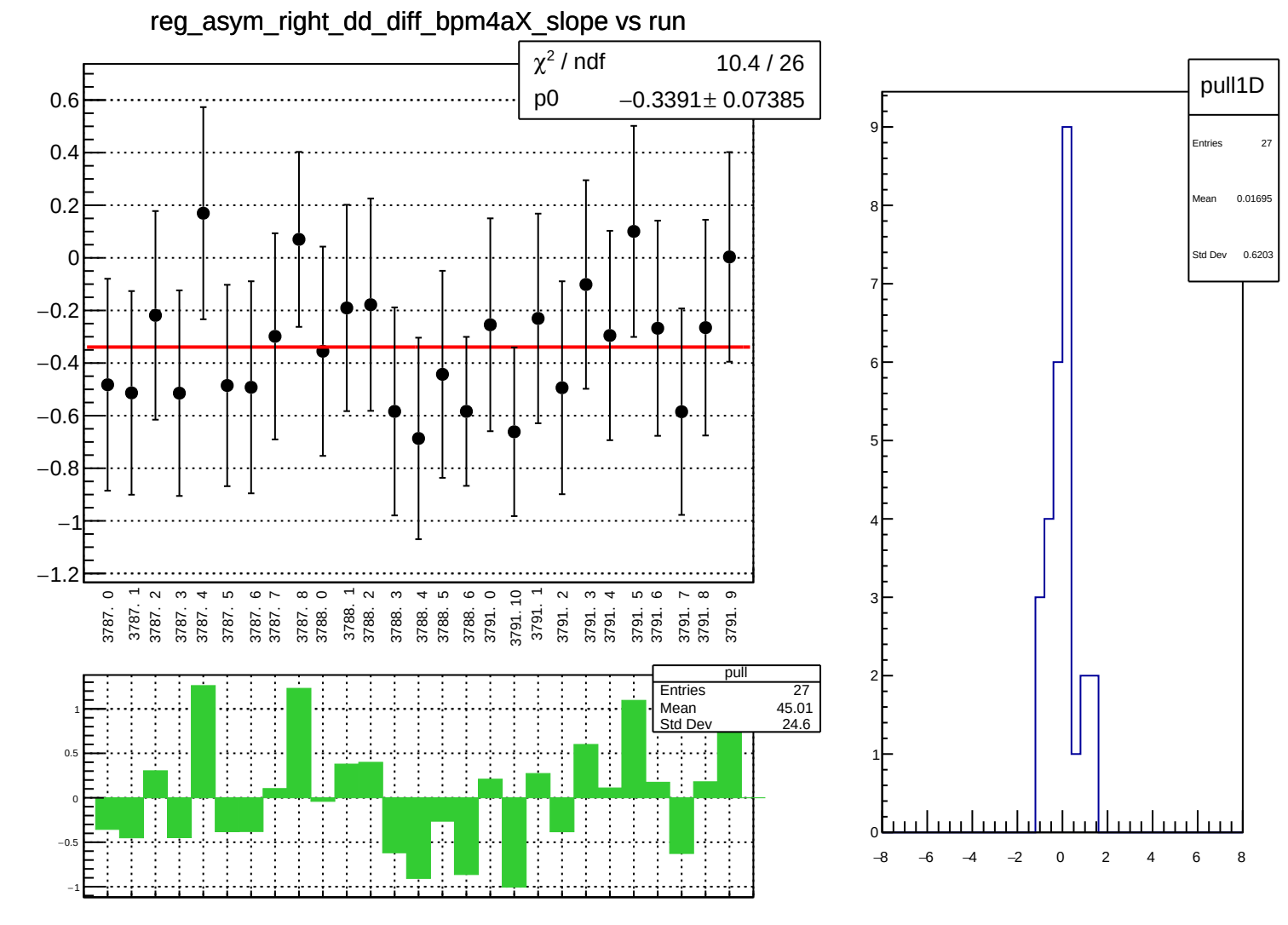

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.17 / 26
p0 32.13 ± 0.1828
36
35
34
33
32
31
30
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −70.66
Std Dev 82.84
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean 0.05628
Std Dev 1.038
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

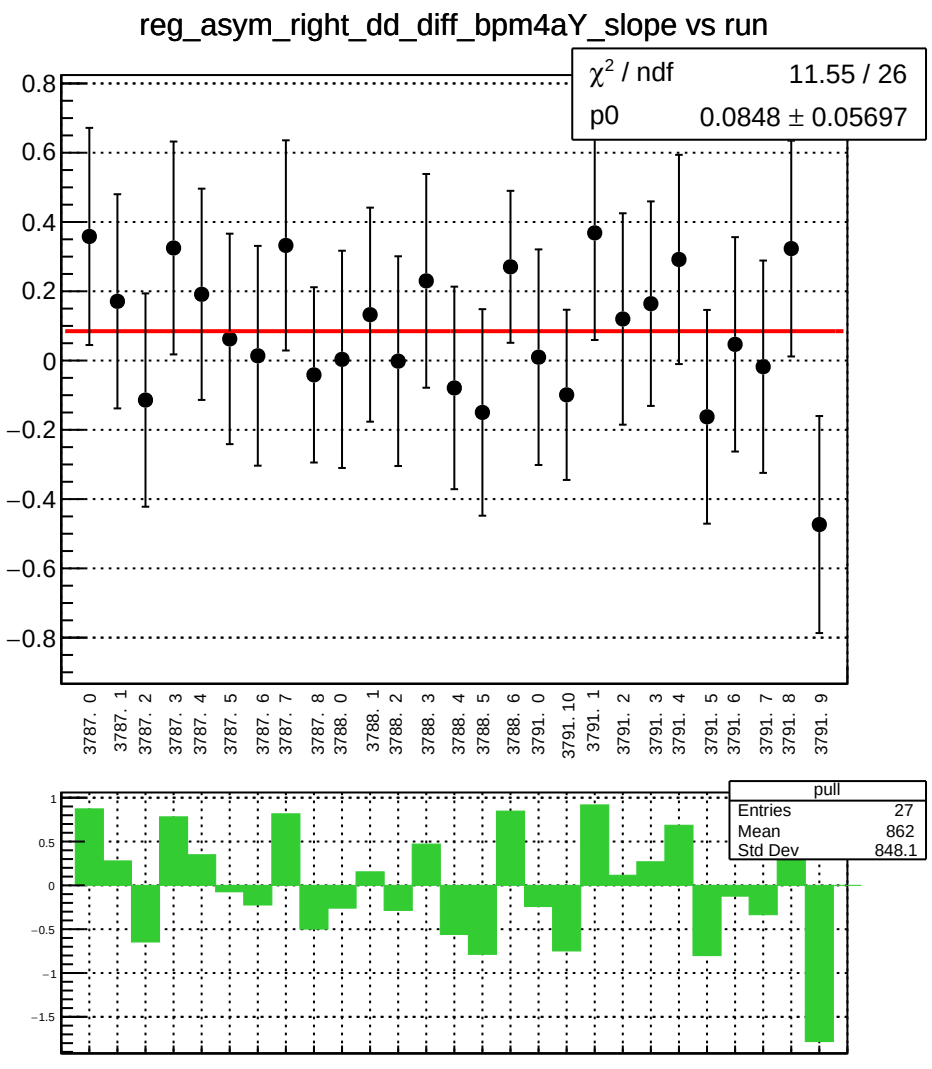

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.322 / 26
p0 −4.866 ± 1.161
5
0
−5
−10
−15
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 70.66
Std Dev 59.36
0.6
0.4
0.2
0
−0.2
−0.4

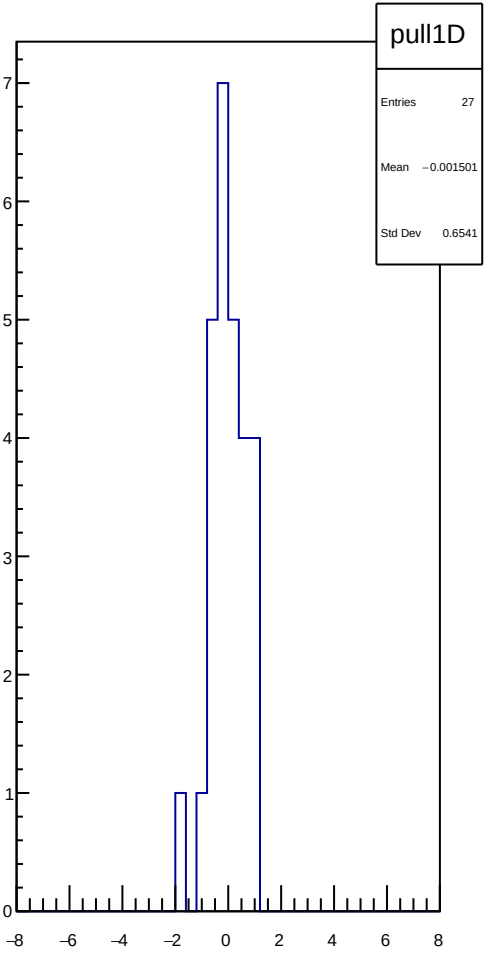

pull1D
Entries 27
Mean 0.005704
Std Dev 0.2932
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

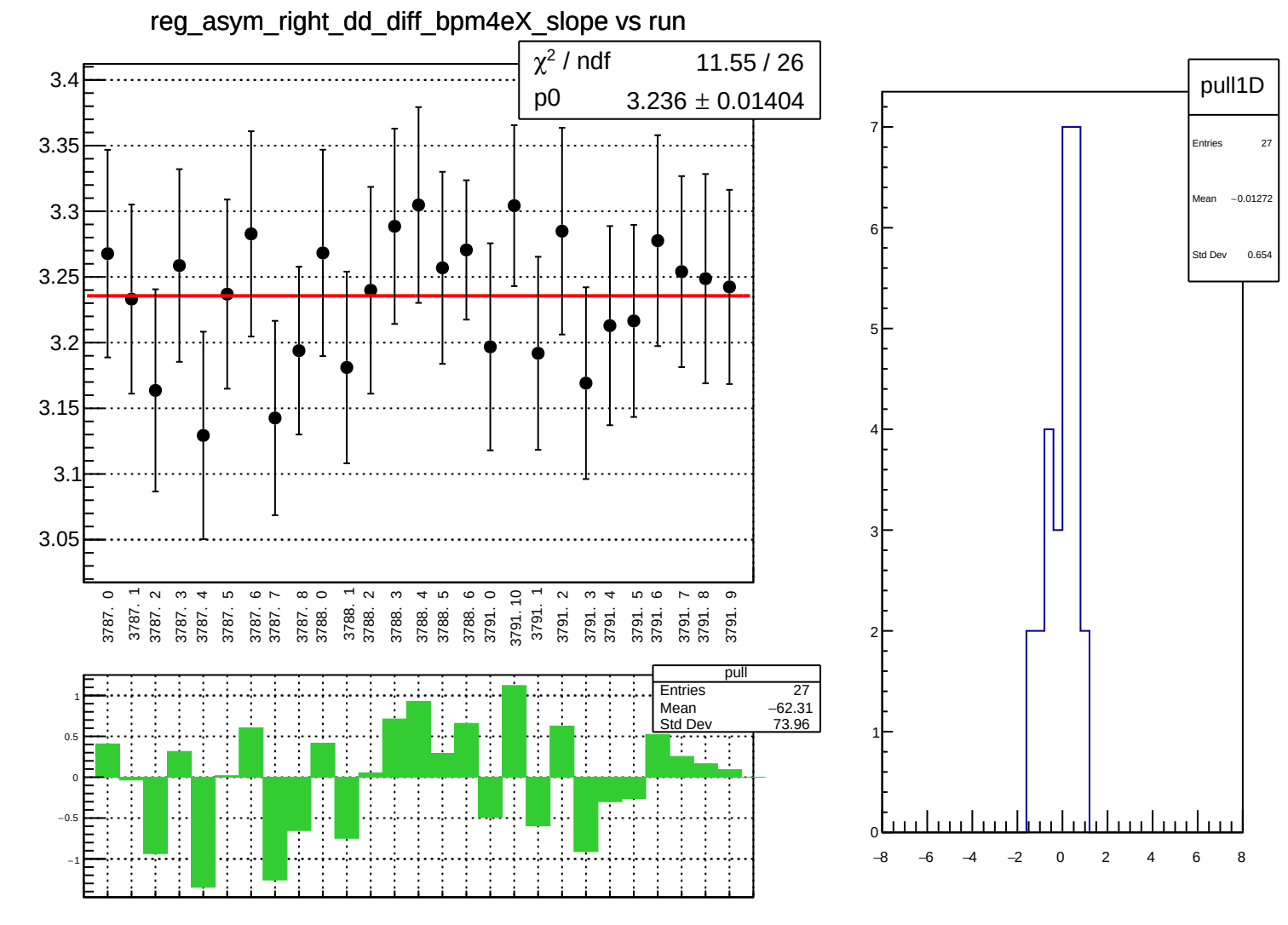

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 2.724 / 26
p0 −50.37 ± 0.2553
−48
−49
−50
−51
−52
−53
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −307.2
Std Dev 319
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

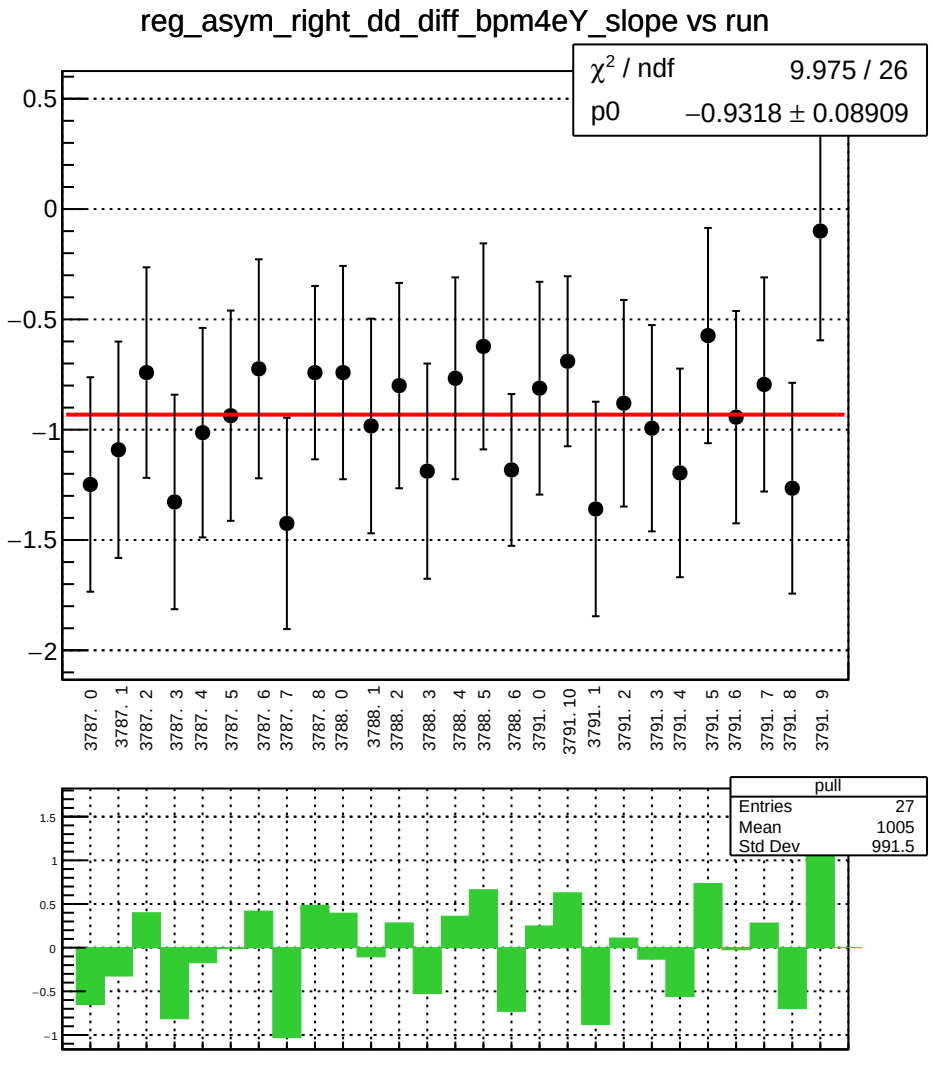

pull1D
Entries 27
Mean 0.003607
Std Dev 0.3176
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

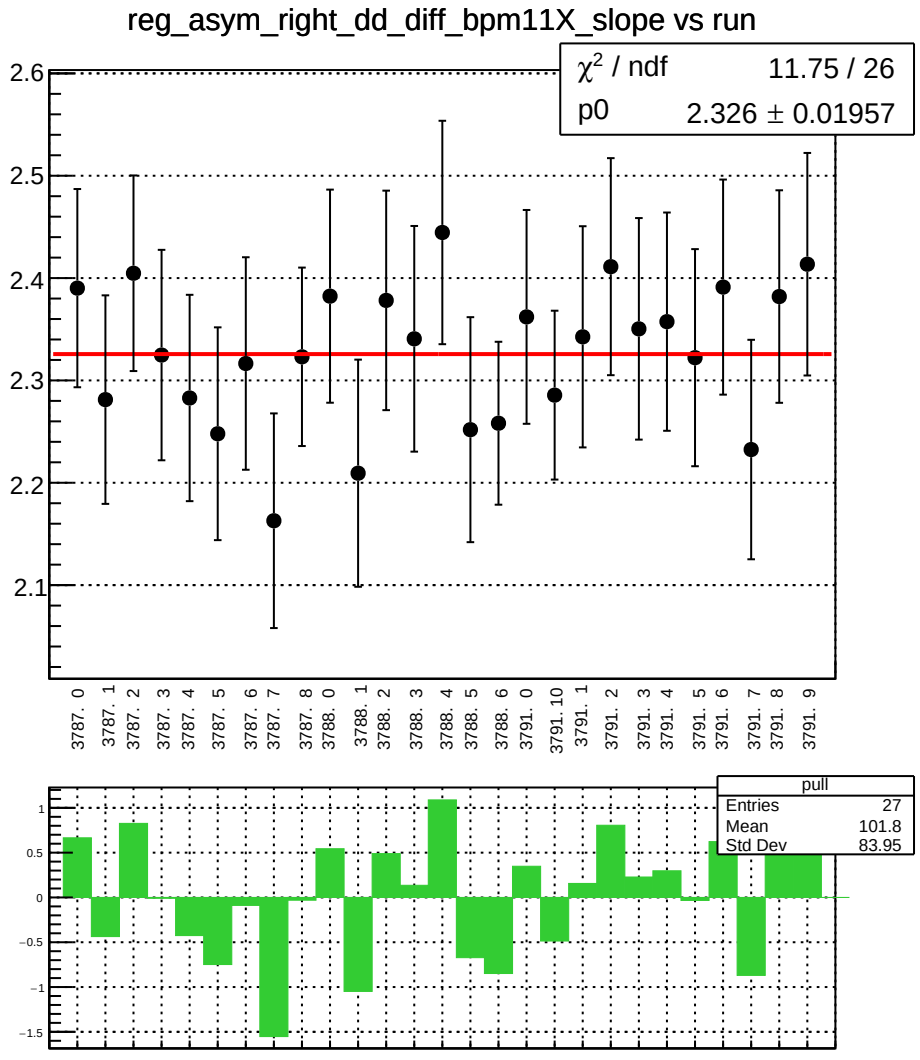

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 10.4 / 26
p0 −0.3391± 0.07385
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 45.01
Std Dev 24.6
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean 0.01695
Std Dev 0.6203
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

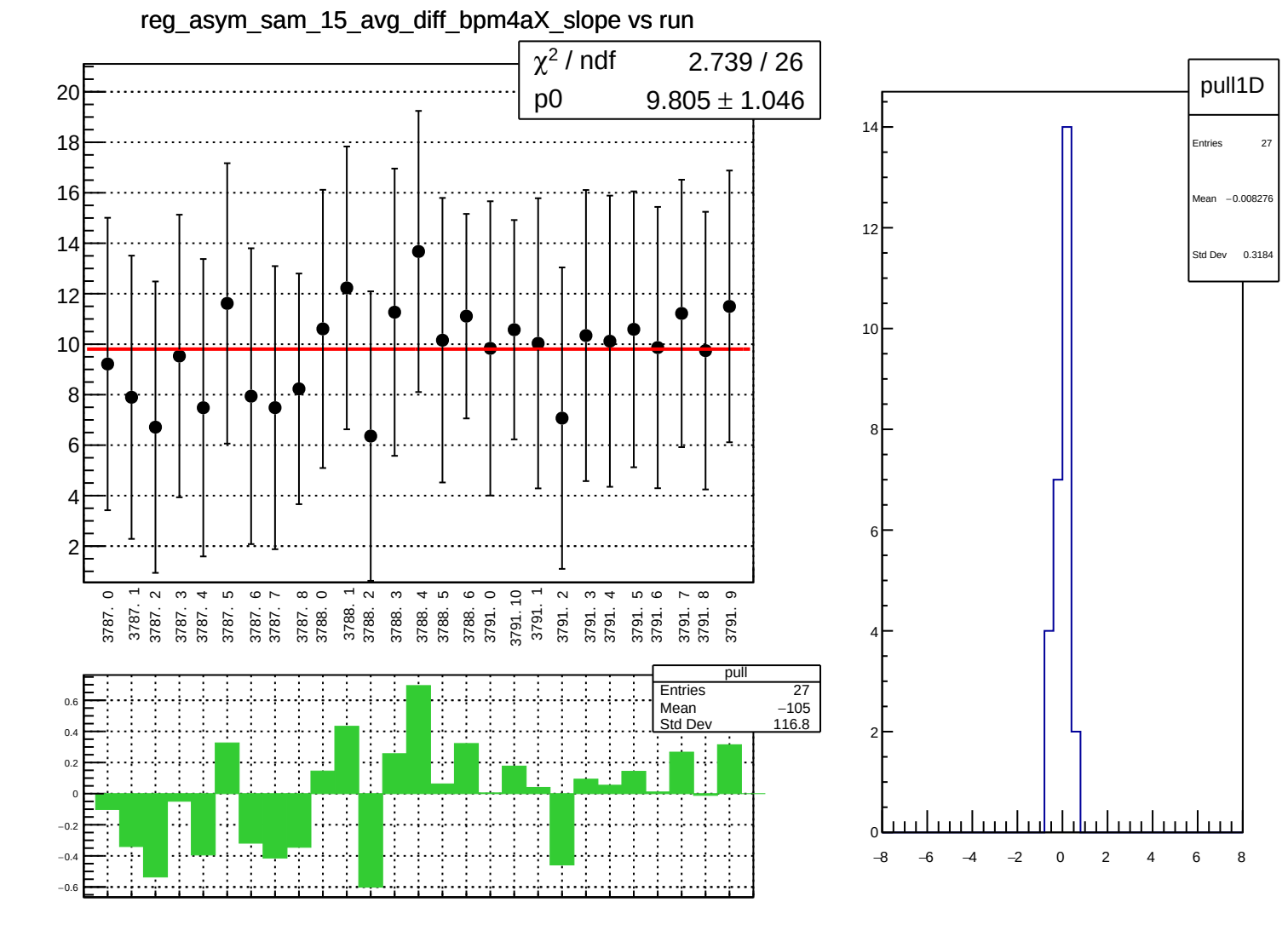

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.55 / 26
p0 0.0848 ± 0.05697
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 862
Std Dev 848.1
1
0.5
0
−0.5
−1
−1.5

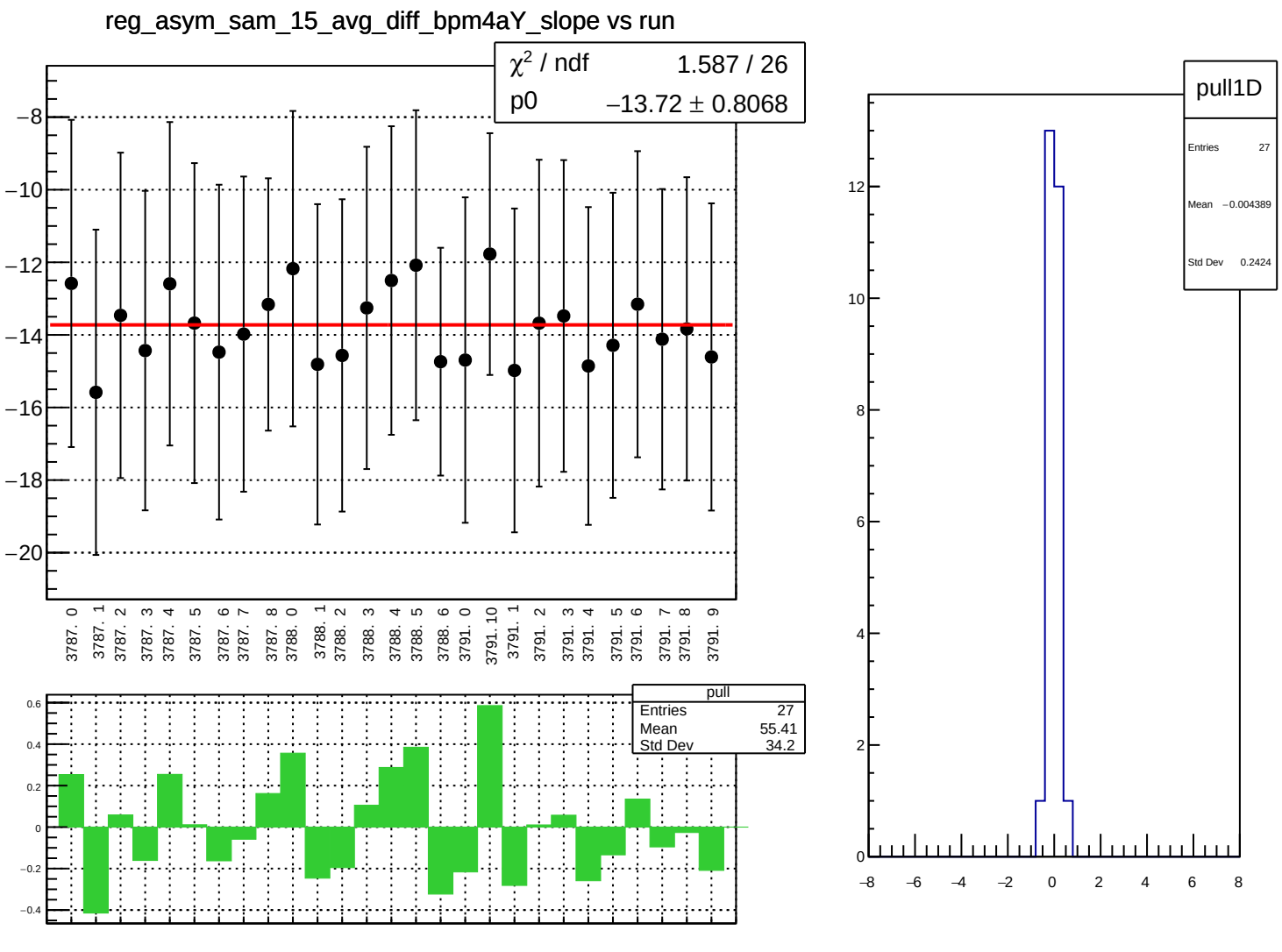

pull1D
Entries 27
Mean −0.001501
Std Dev 0.6541
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

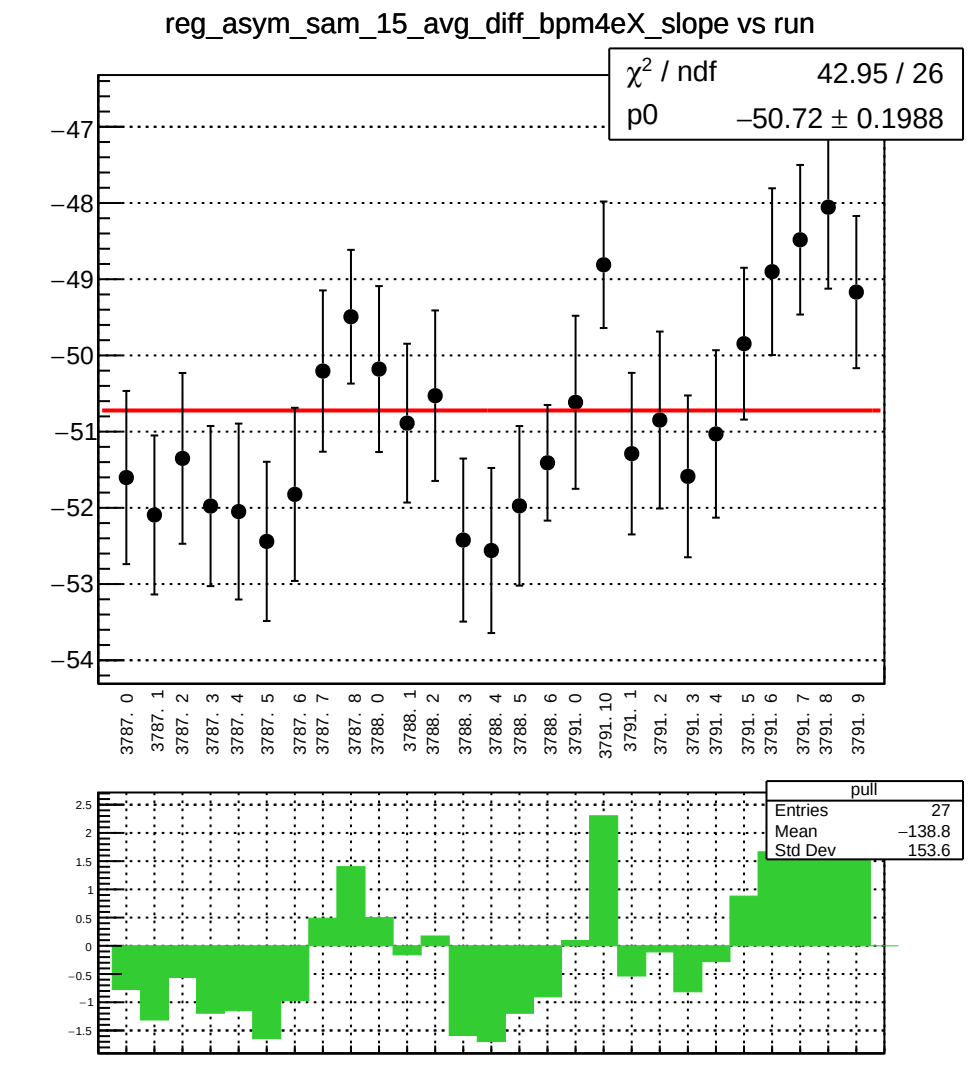

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.55 / 26
p0 3.236 ± 0.01404
3.4
3.35
3.3
3.25
3.2
3.15
3.1
3.05
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −62.31
Std Dev 73.96
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean −0.01272
Std Dev 0.654
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

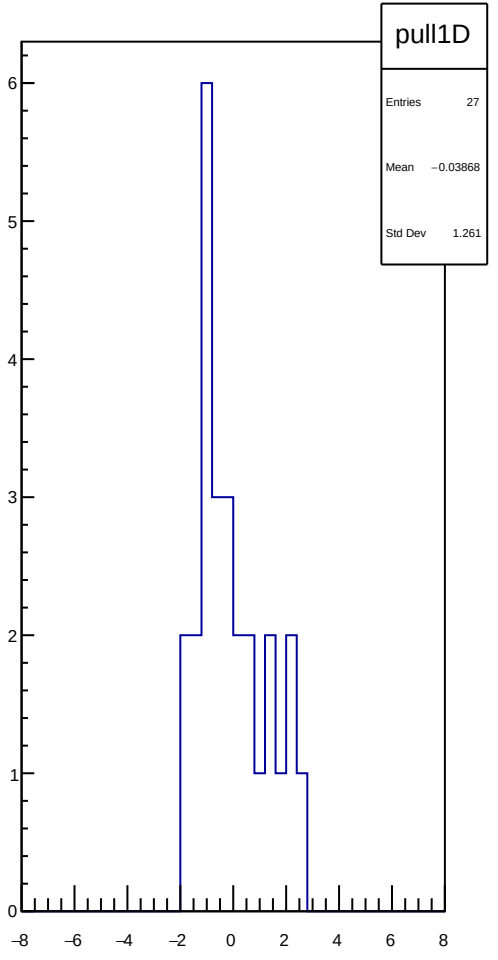

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.975 / 26
p0 −0.9318 ± 0.08909
0.5
0
−0.5
−1
−1.5
−2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 1005
Std Dev 991.5
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean 0.001252
Std Dev 0.6078
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

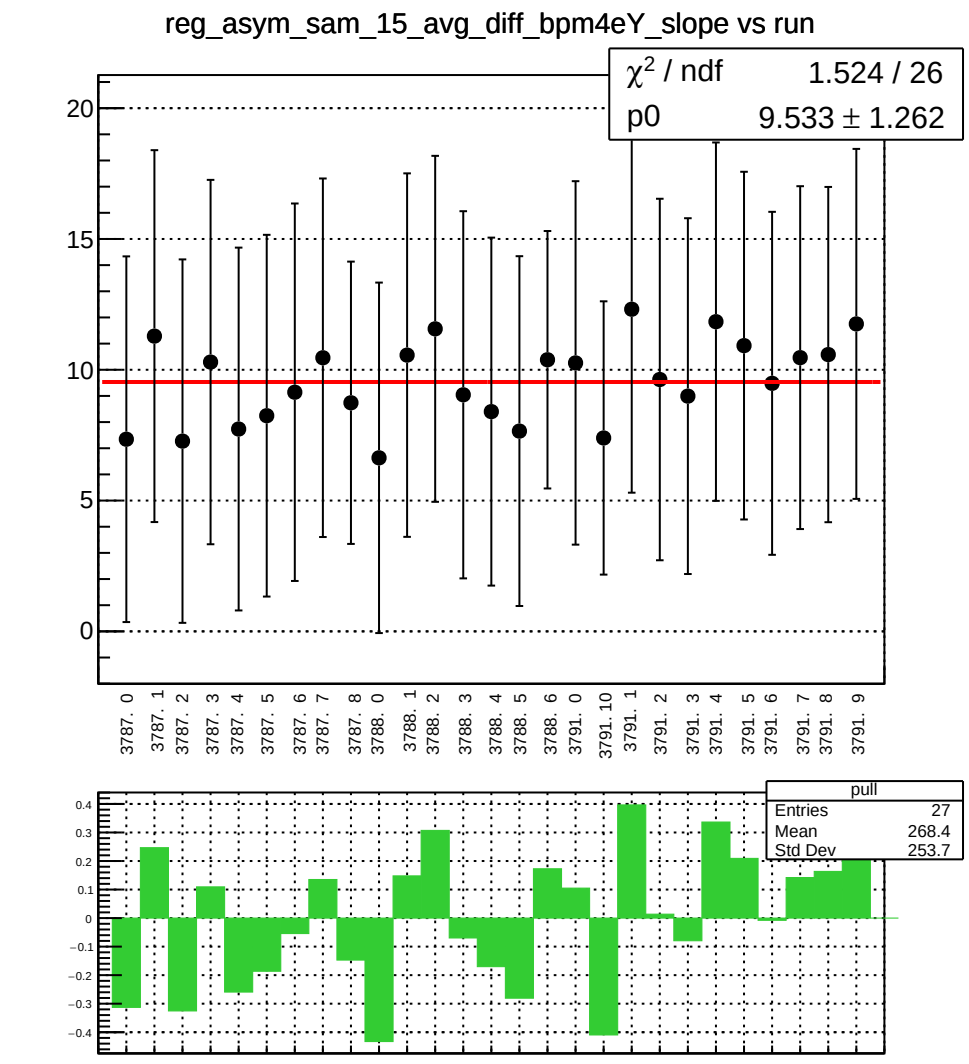

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 11.75 / 26
p0 2.326 ± 0.01957
2.6
2.5
2.4
2.3
2.2
2.1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 101.8
Std Dev 83.95
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean 0.01134
Std Dev 0.6596
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

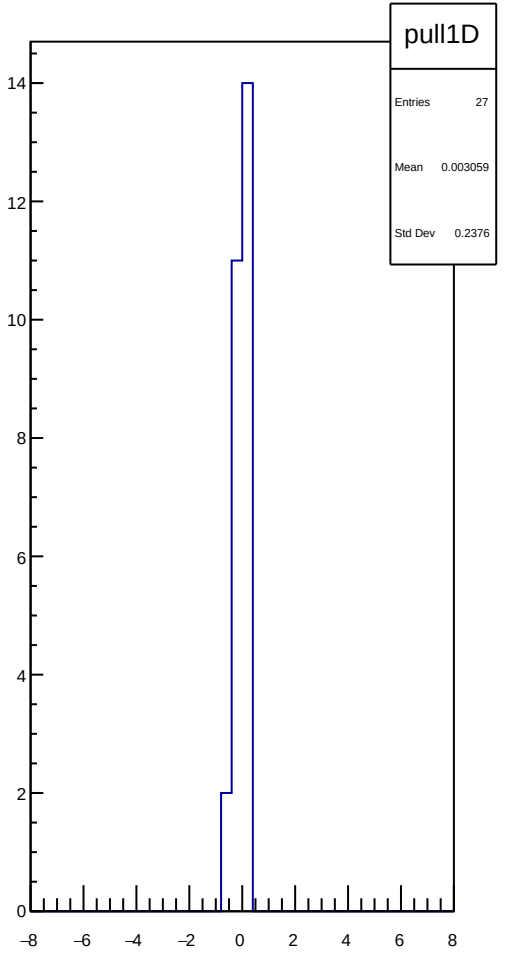

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.739 / 26
p0 9.805 ± 1.046
pull
Entries 27
Mean −105
Std Dev 116.8
pull1D
Entries 27
Mean −0.008276
Std Dev 0.3184

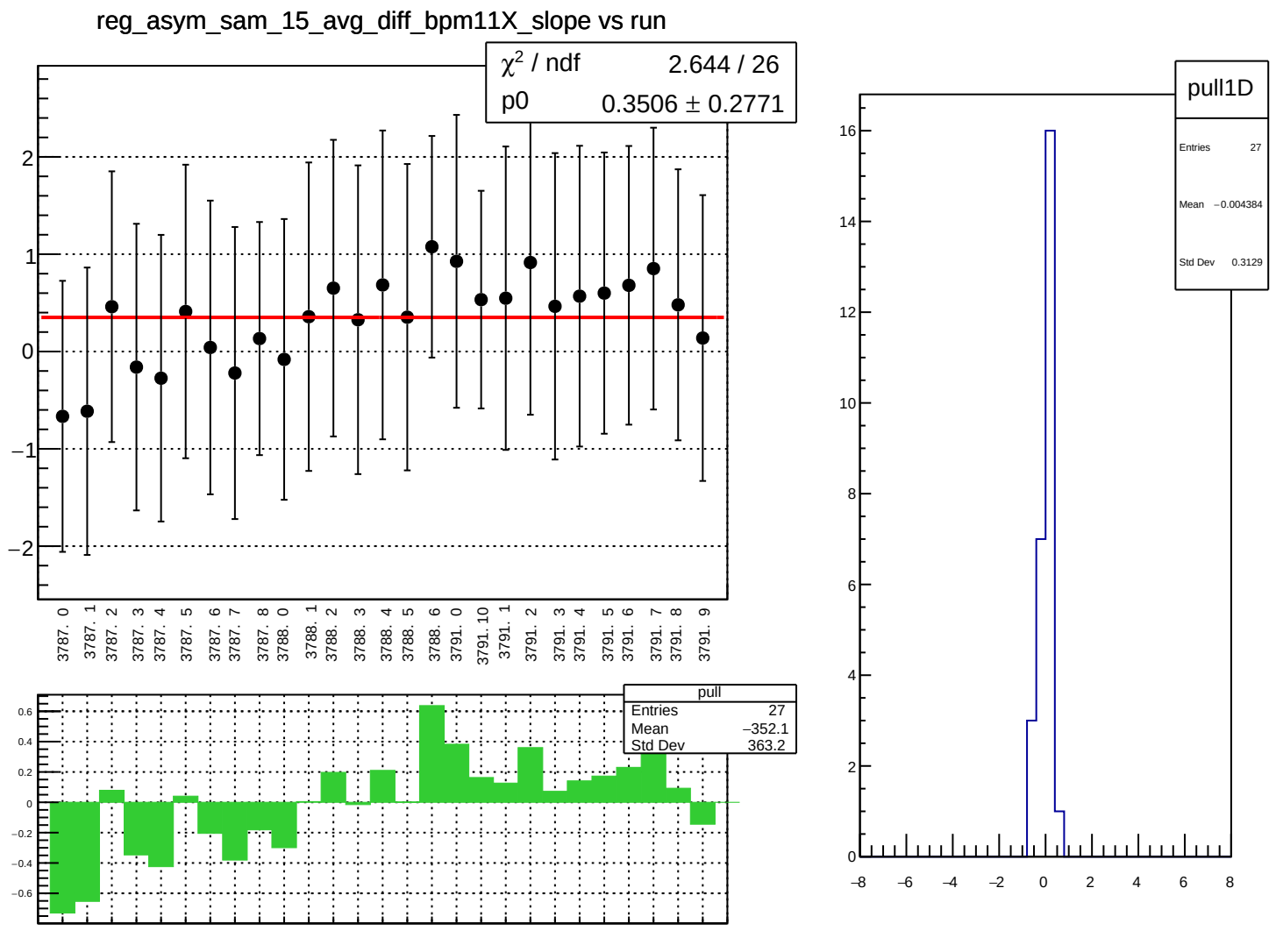

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.587 / 26
p0 −13.72 ± 0.8068
−8
−10
−12
−14
−16
−18
−20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 55.41
Std Dev 34.2
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 27
Mean −0.004389
Std Dev 0.2424
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

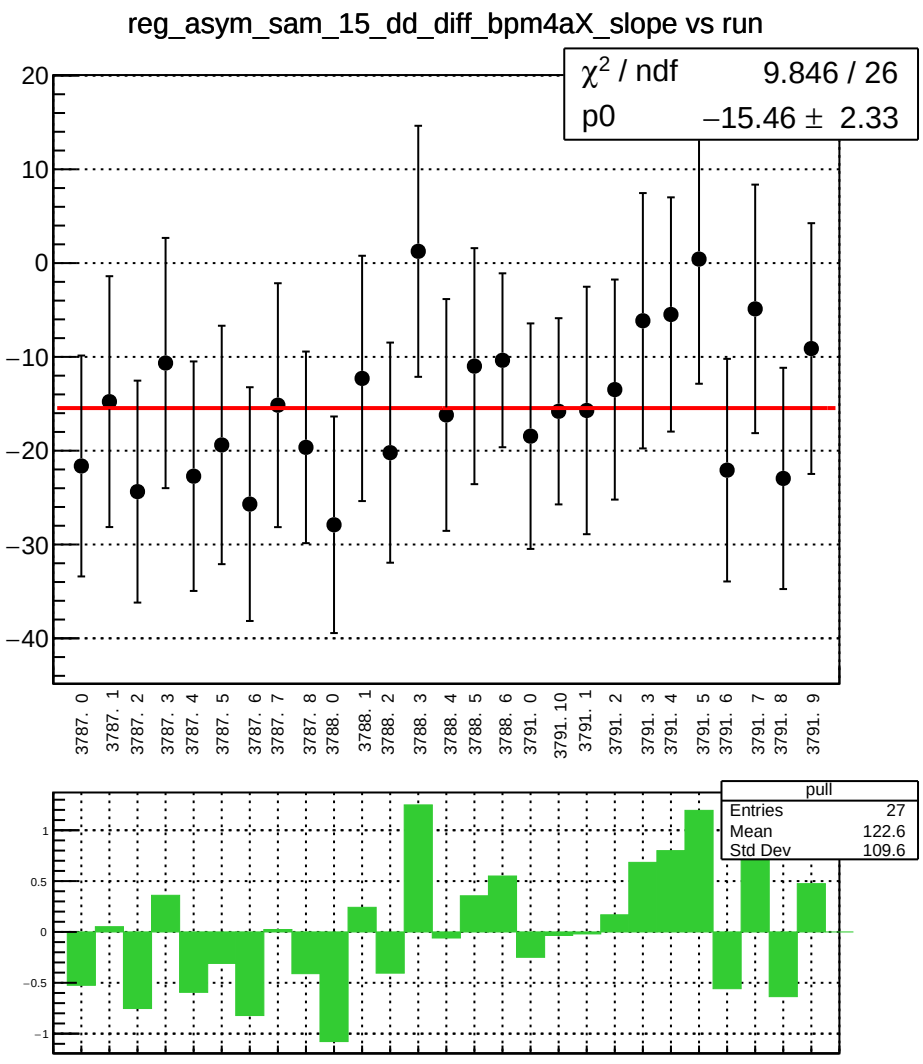

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.95 / 26
p0 −50.72 ± 0.1988
−47
−48
−49
−50
−51
−52
−53
−54
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −138.8
Std Dev 153.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

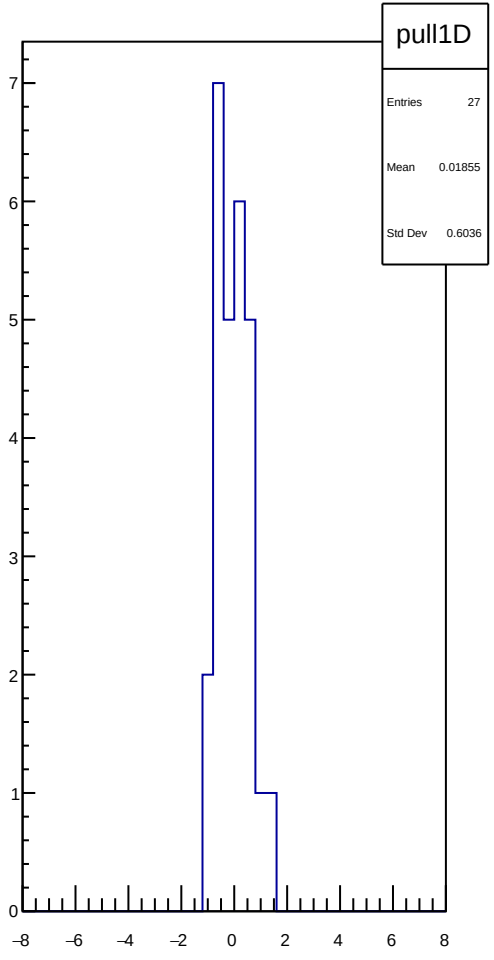

pull1D
Entries 27
Mean −0.03868
Std Dev 1.261
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

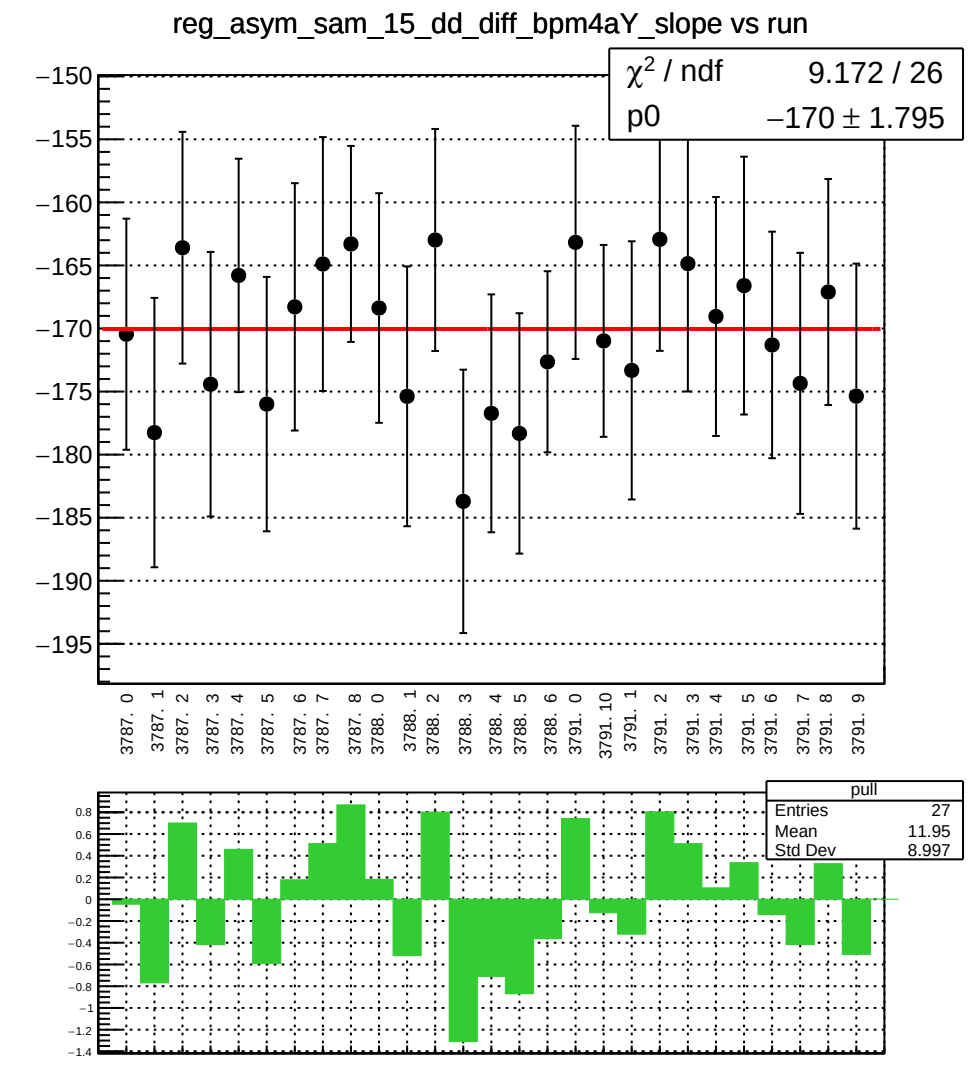

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.524 / 26
p0 9.533 ± 1.262
20
15
10
5
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 268.4
Std Dev 253.7
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

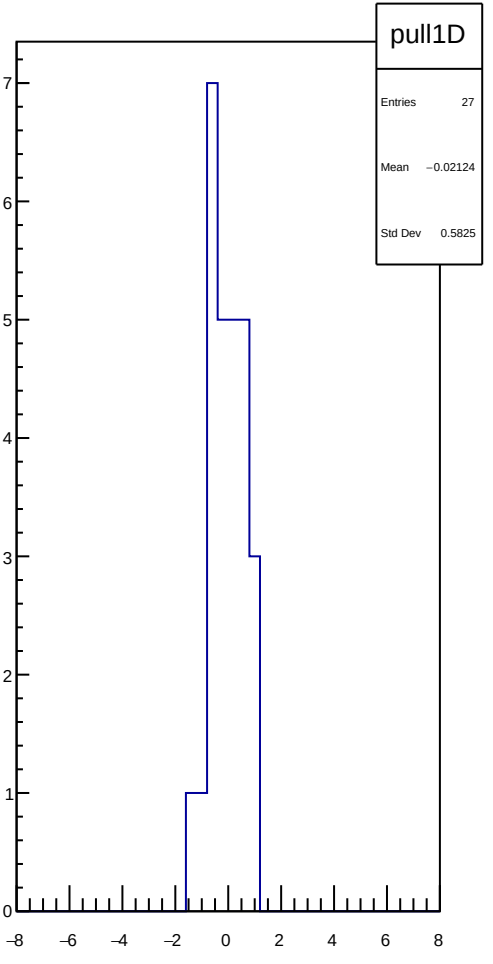

pull1D
Entries 27
Mean 0.003059
Std Dev 0.2376
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

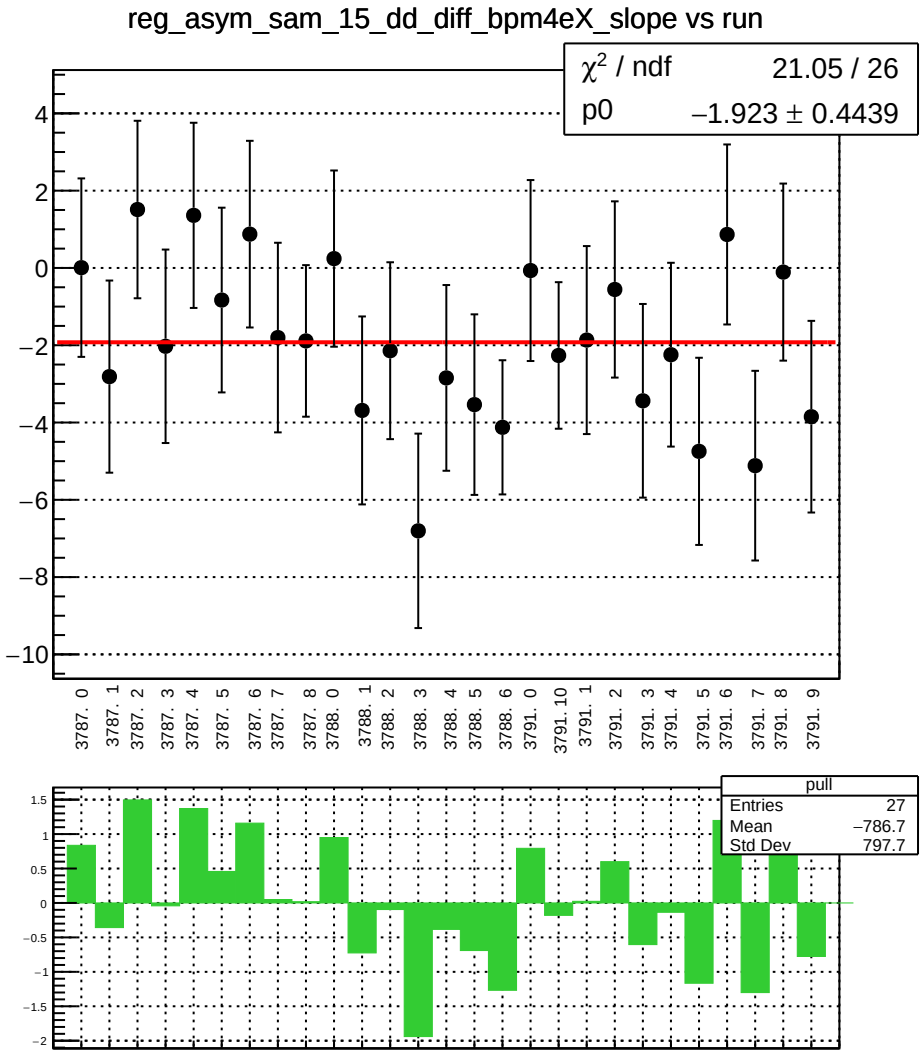

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 2.644 / 26
p0 0.3506 ± 0.2771
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −352.1
Std Dev 363.2
pull1D
Entries 27
Mean −0.004384
Std Dev 0.3129

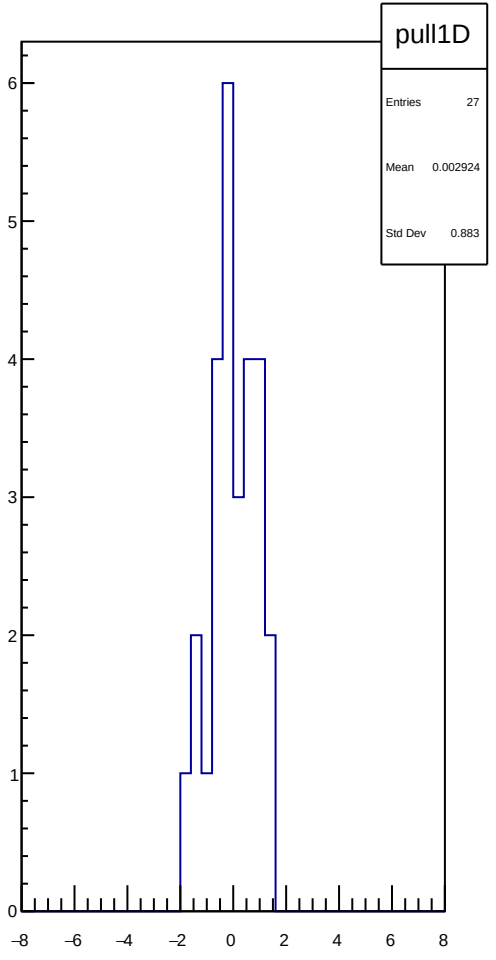

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.846 / 26
p0 −15.46 ± 2.33
20
10
0
−10
−20
−30
−40
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 122.6
Std Dev 109.6
1
0.5
0
−0.5
−1

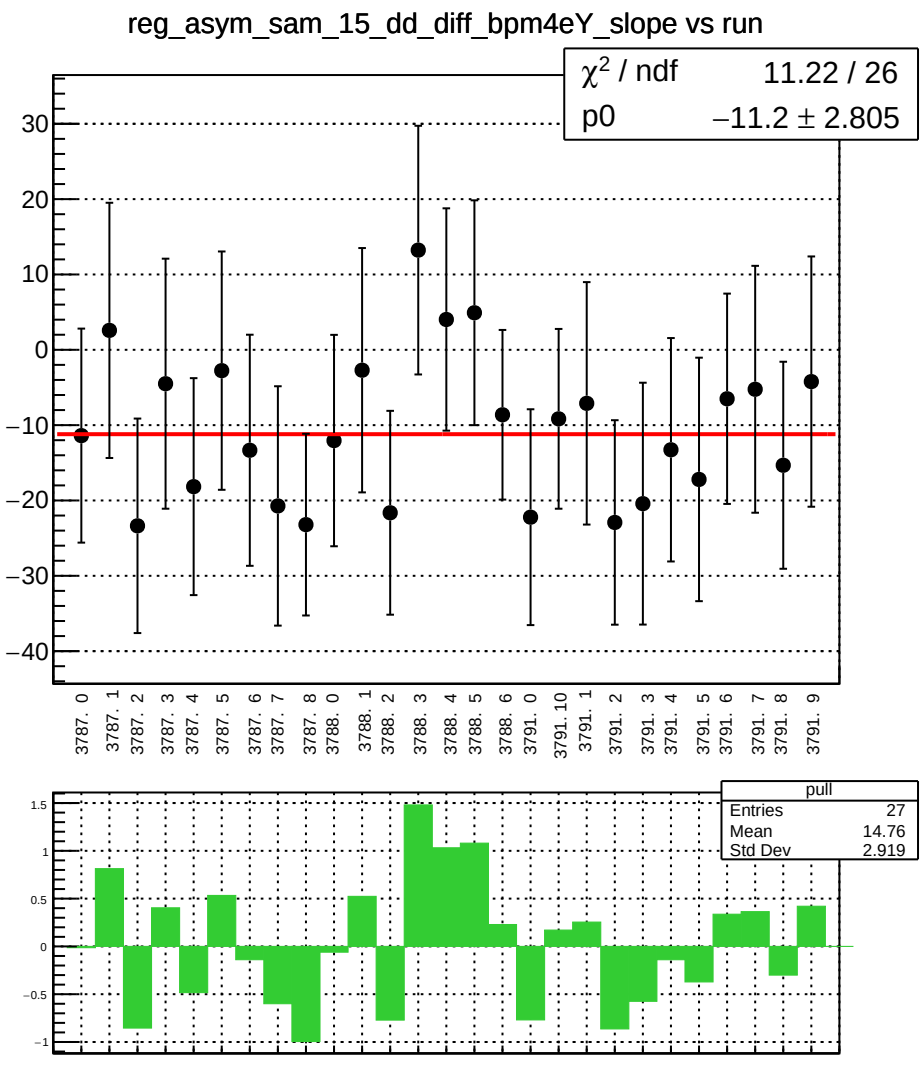

pull1D
Entries 27
Mean 0.01855
Std Dev 0.6036
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

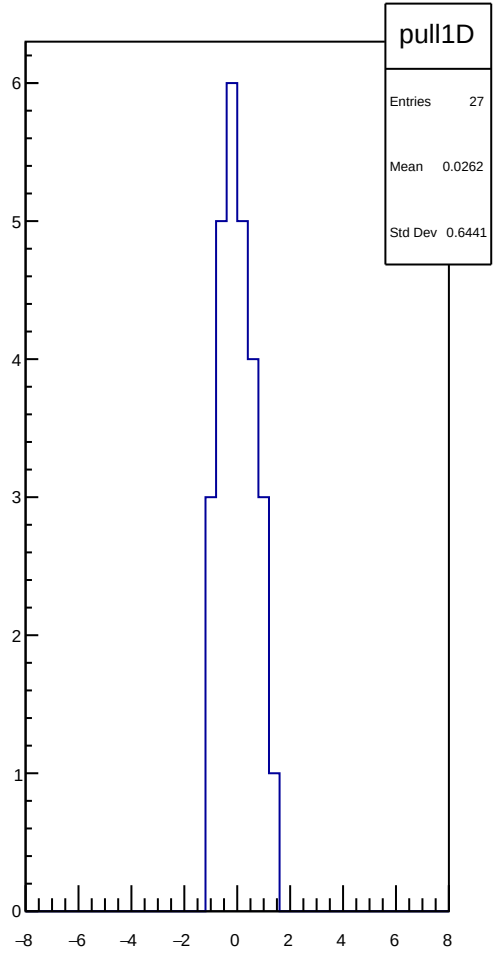

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.172 / 26
p0 −170 ± 1.795
−150
−155
−160
−165
−170
−175
−180
−185
−190
−195
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 11.95
Std Dev 8.997
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

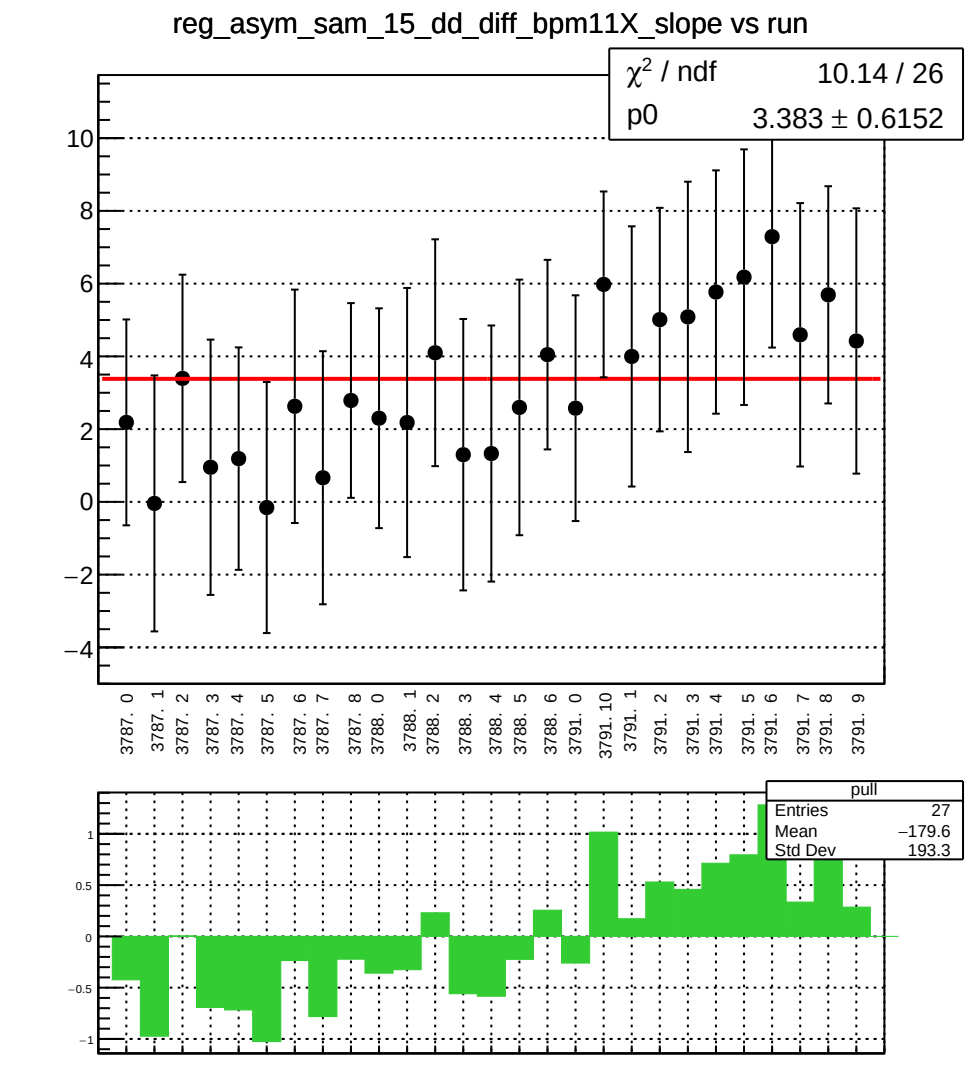

pull1D
Entries 27
Mean −0.02124
Std Dev 0.5825
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

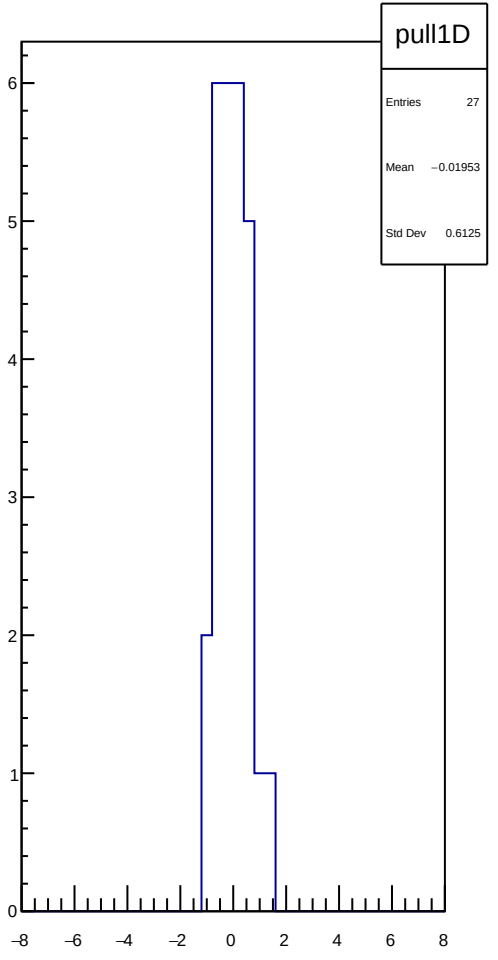

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.05 / 26
p0 −1.923 ± 0.4439
4
2
0
−2
−4
−6
−8
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −786.7
Std Dev 797.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

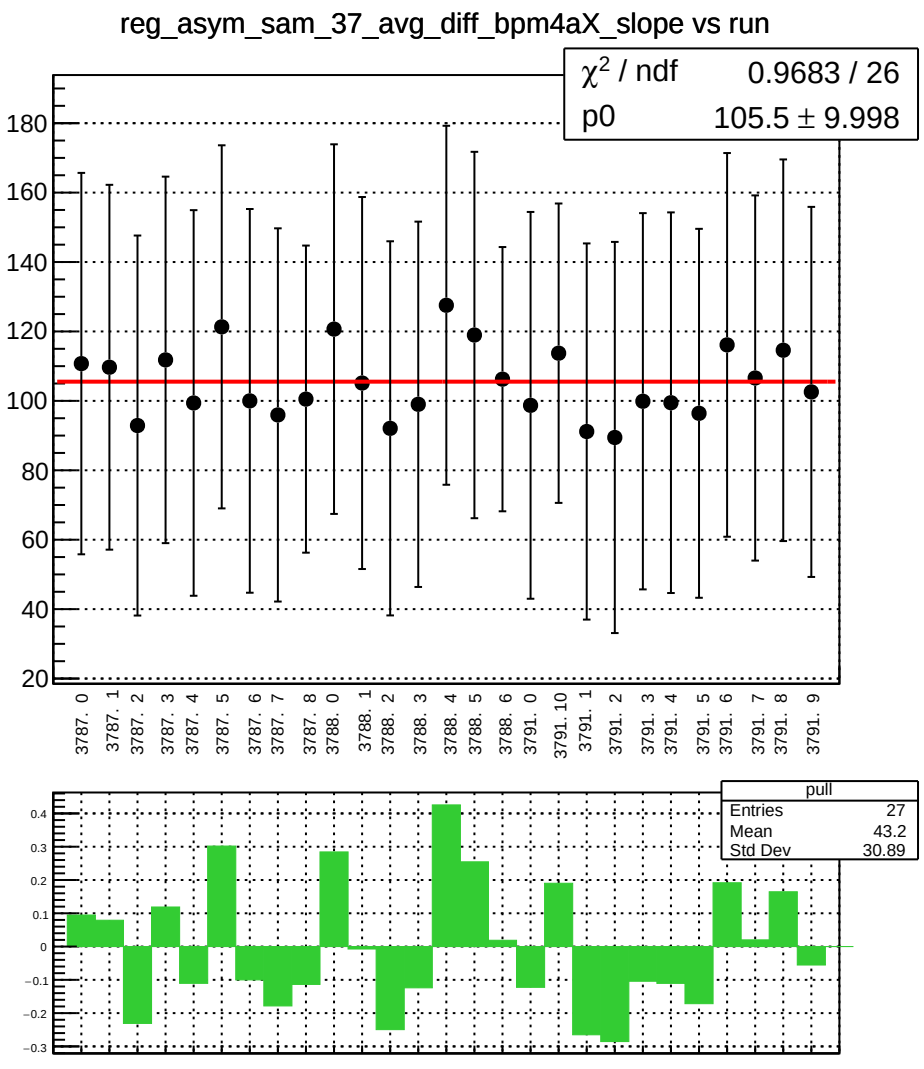

pull1D
Entries 27
Mean 0.002924
Std Dev 0.883
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

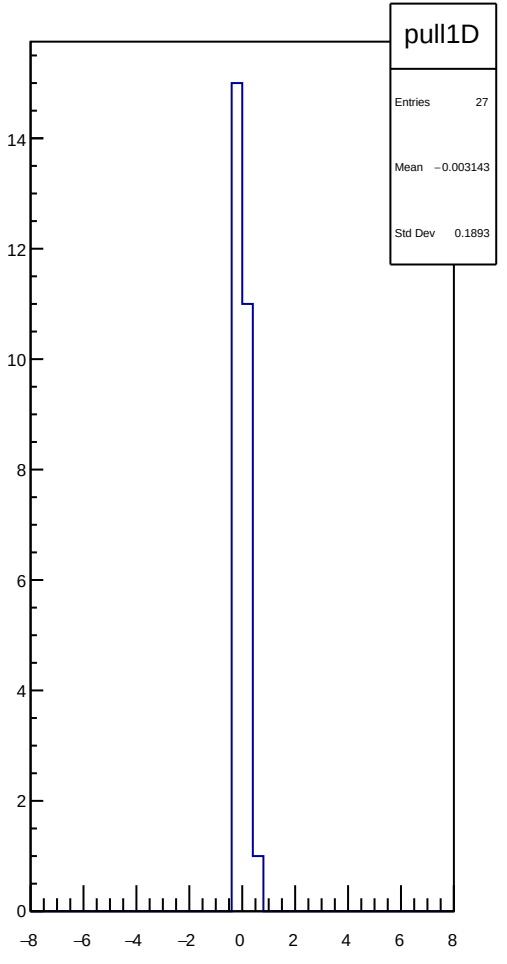

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.22 / 26
p0 −11.2 ± 2.805
30
20
10
0
−10
−20
−30
−40
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 14.76
Std Dev 2.919
1.5
1
0.5
0
−0.5
−1

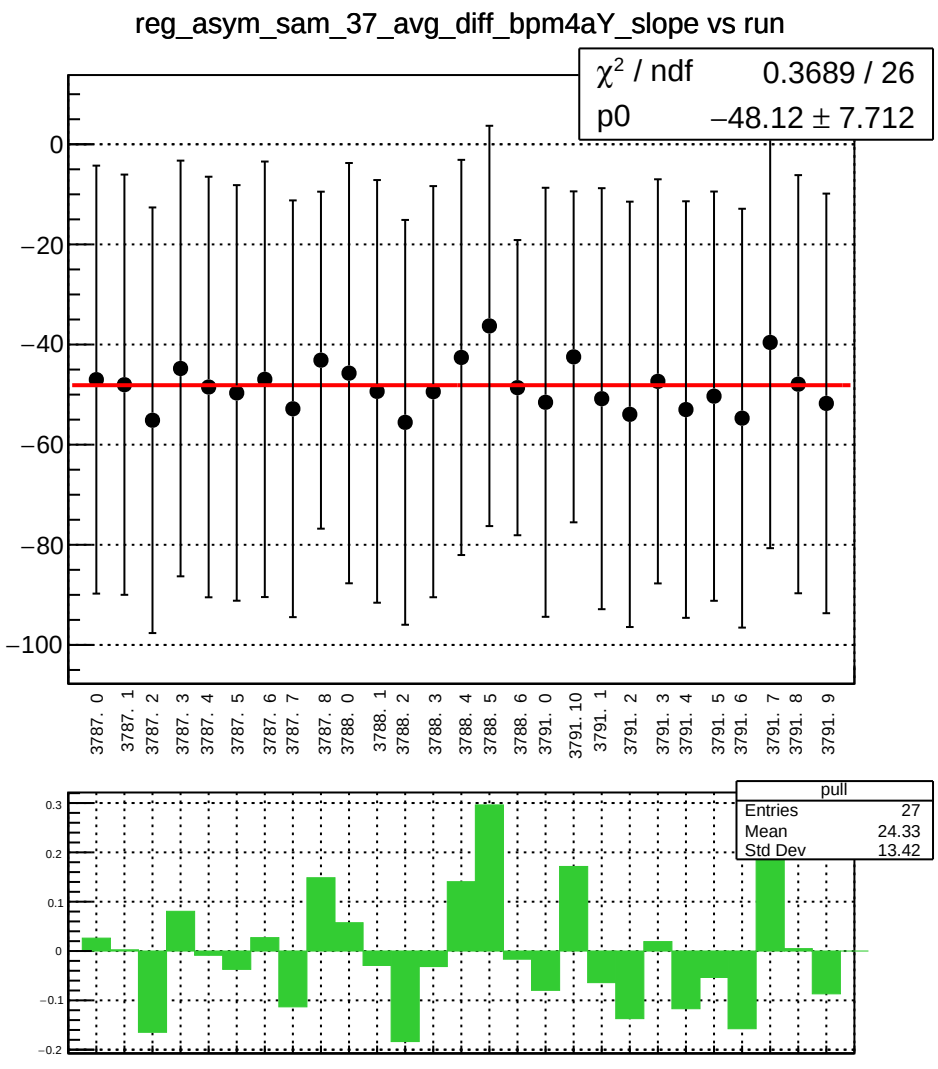

pull1D
Entries 27
Mean 0.0262
Std Dev 0.6441
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

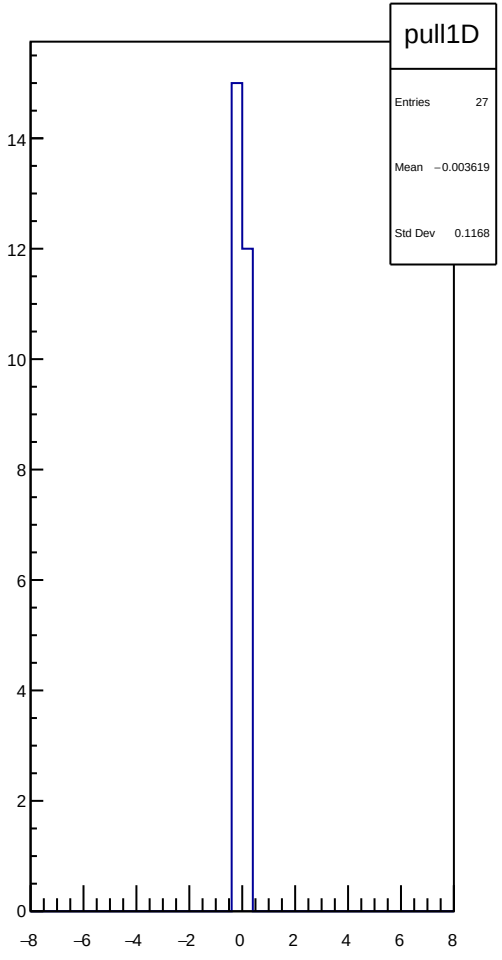

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 10.14 / 26
p0 3.383 ± 0.6152
10
8
6
4
2
0
−2
−4
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −179.6
Std Dev 193.3
1
0.5
0
−0.5
−1

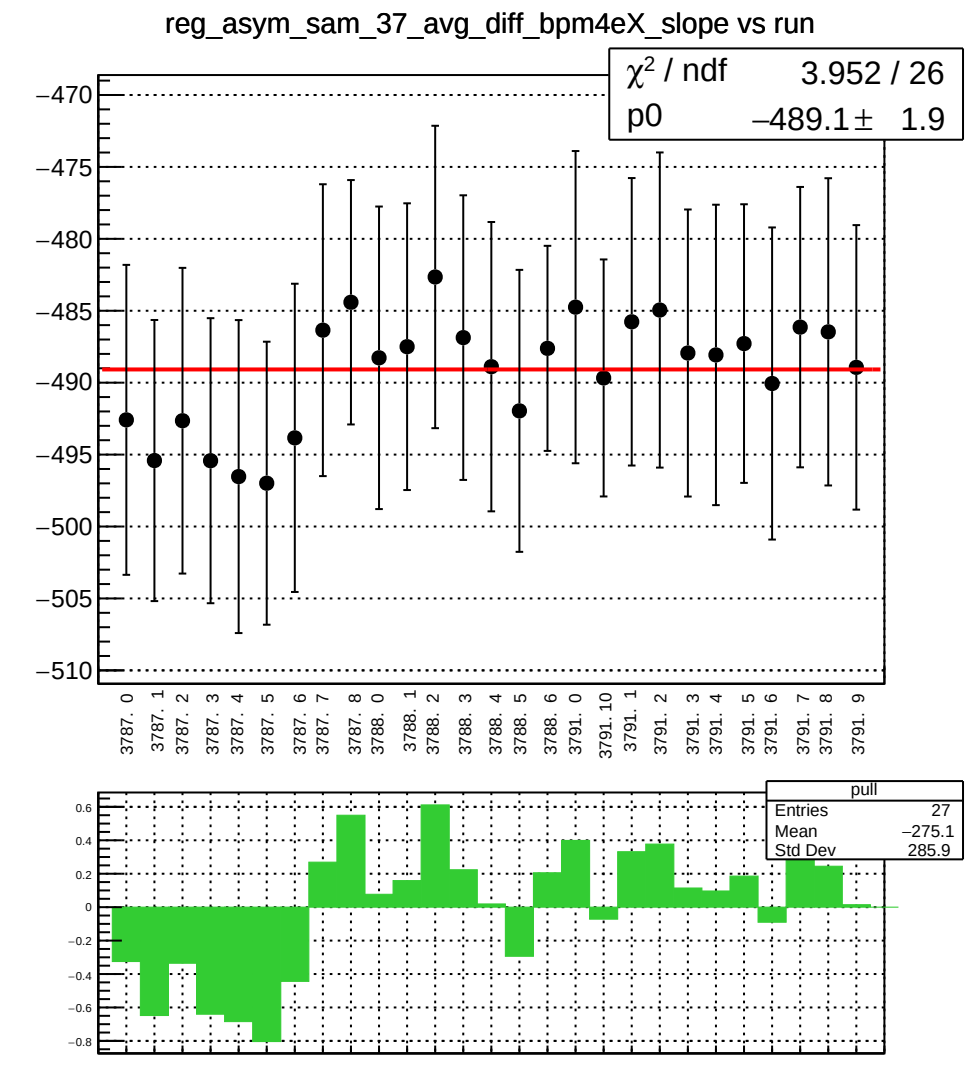

pull1D
Entries 27
Mean −0.01953
Std Dev 0.6125
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

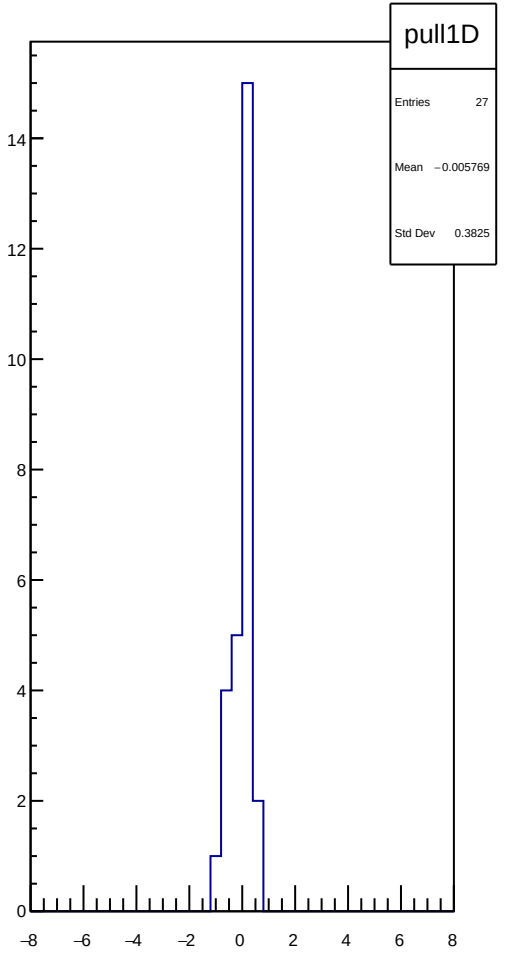

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.9683 / 26
p0 105.5 ± 9.998
180
160
140
120
100
80
60
40
20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 43.2
Std Dev 30.89
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

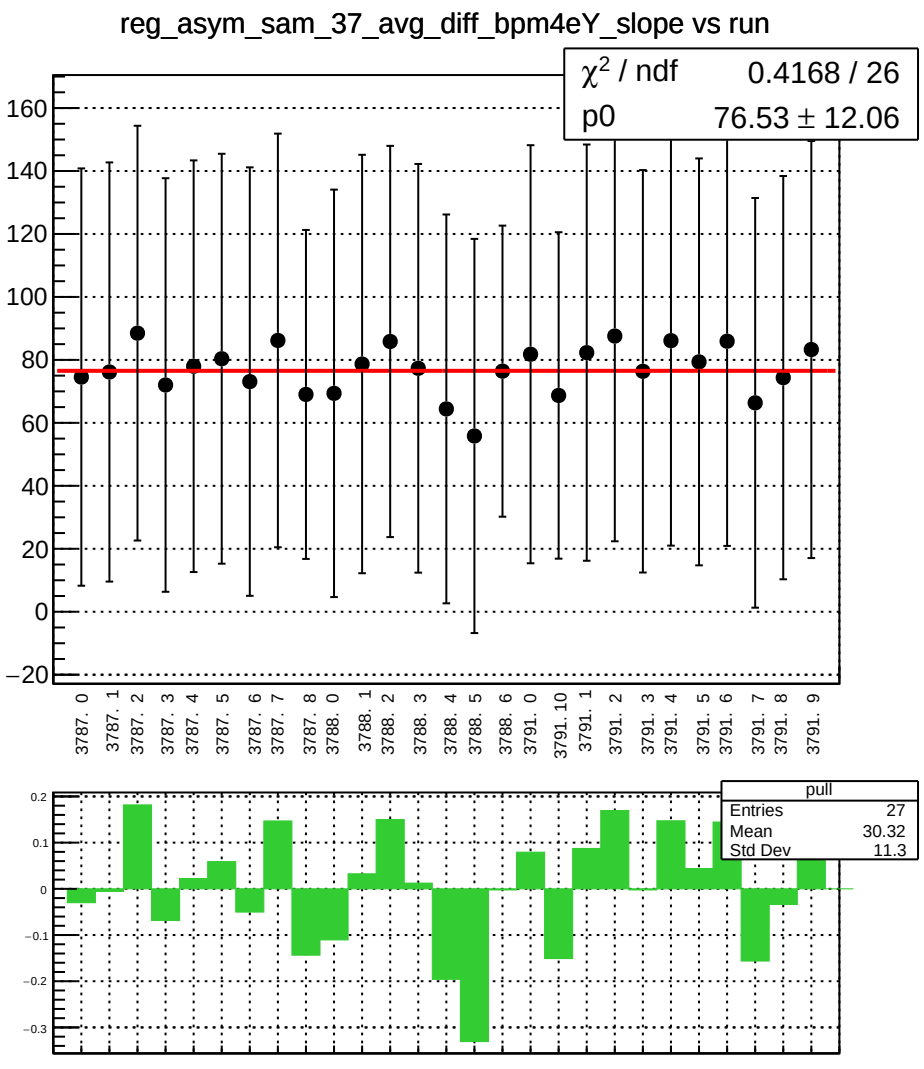

pull1D
Entries 27
Mean −0.003143
Std Dev 0.1893
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

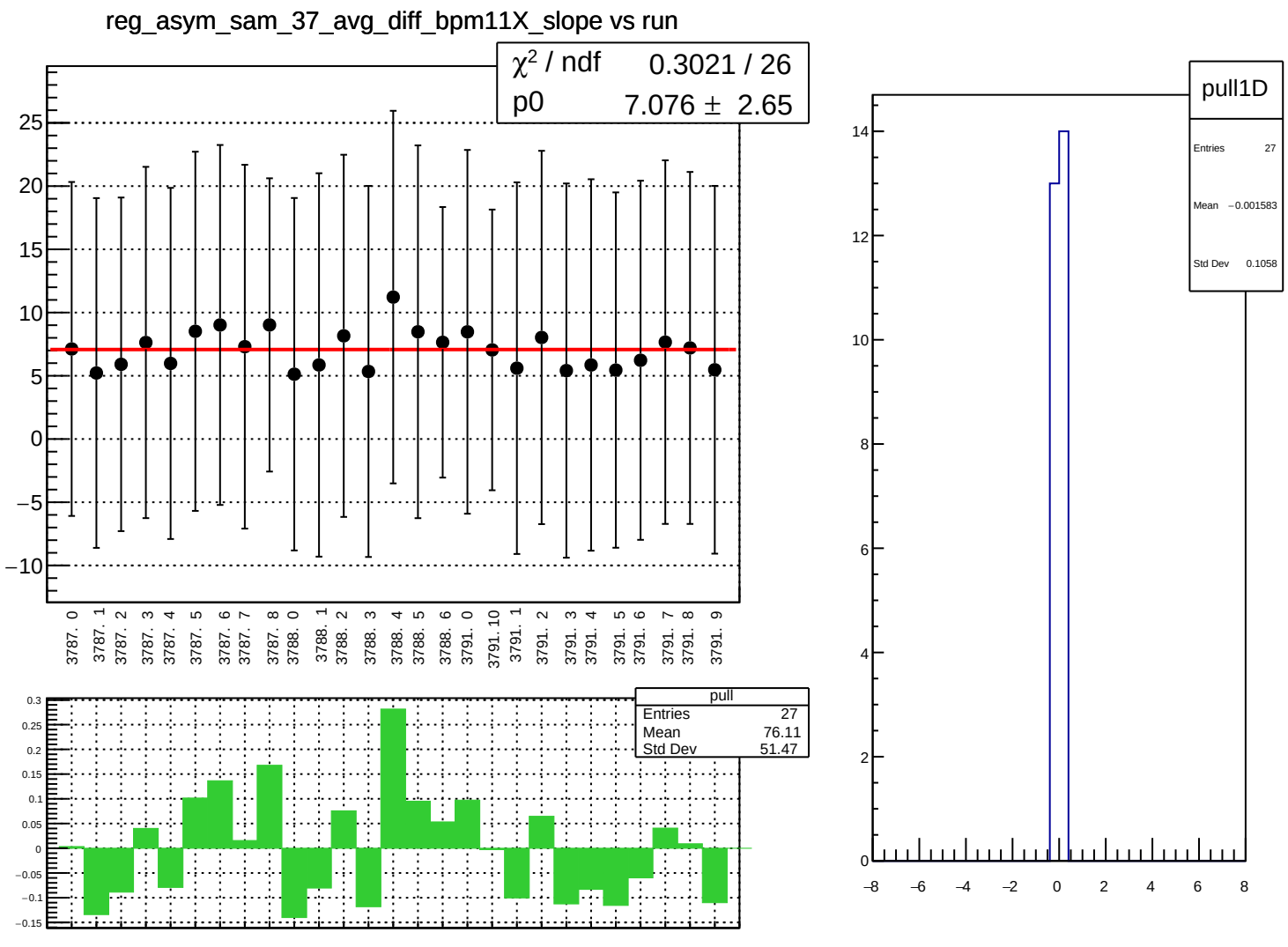

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.3689 / 26
p0 −48.12 ± 7.712
0
−20
−40
−60
−80
−100
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 24.33
Std Dev 13.42
0.3
0.2
0.1
0
−0.1
−0.2

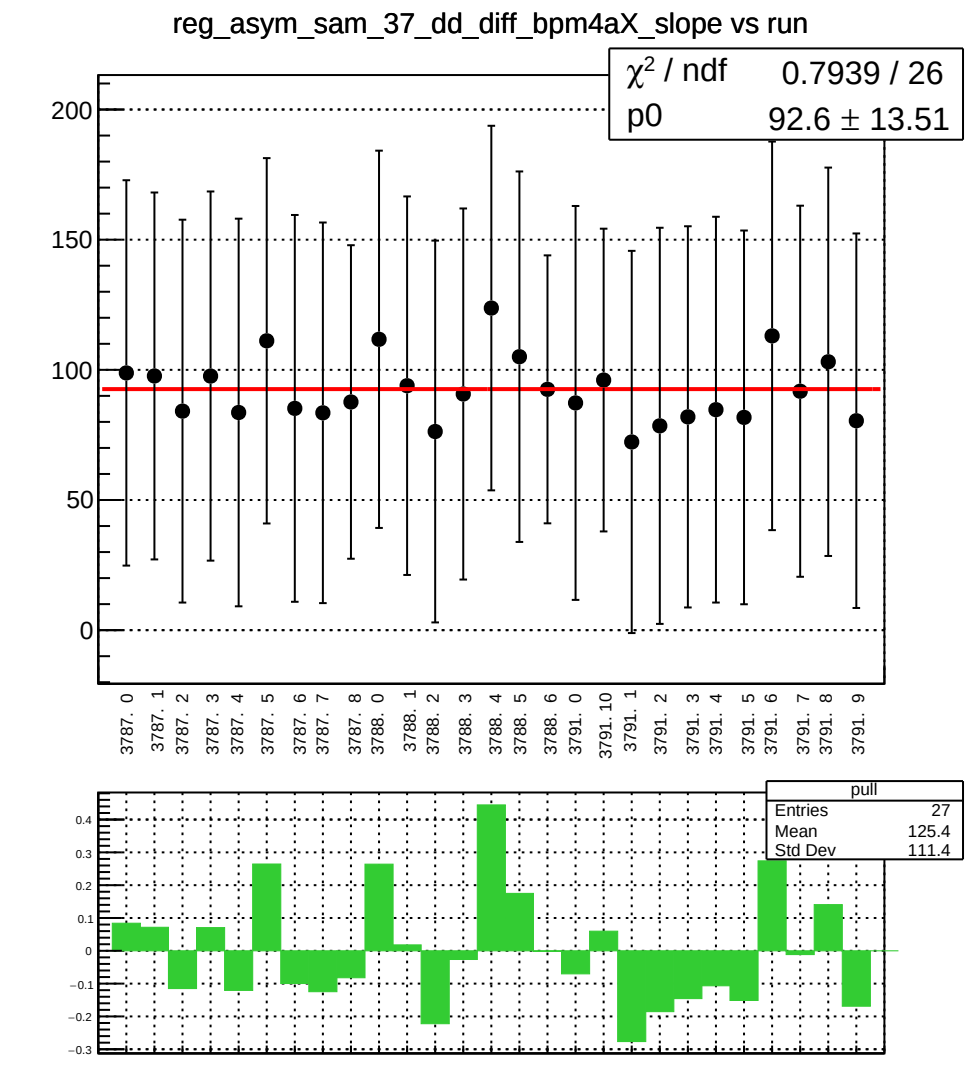

pull1D
Entries 27
Mean −0.003619
Std Dev 0.1168
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

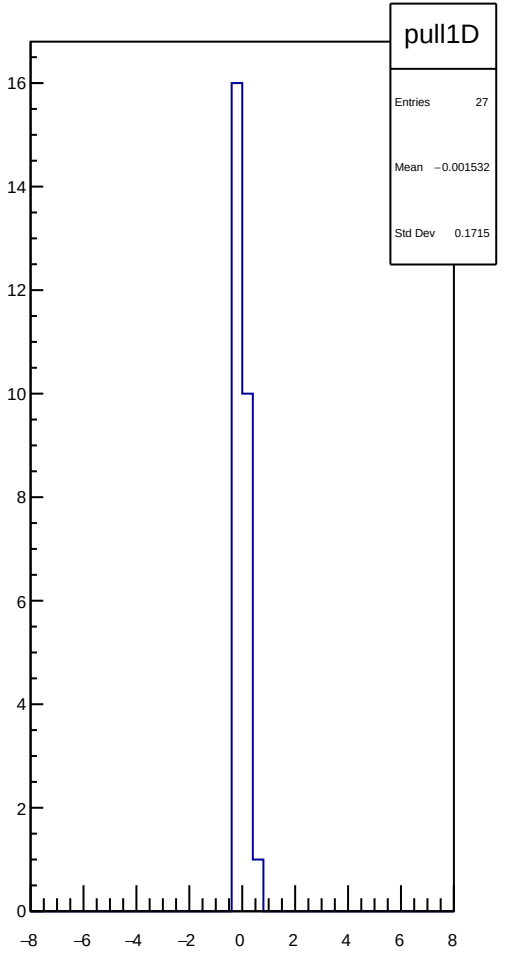

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.952 / 26
p0 −489.1 ± 1.9
−470
−475
−480
−485
−490
−495
−500
−505
−510
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −275.1
Std Dev 285.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

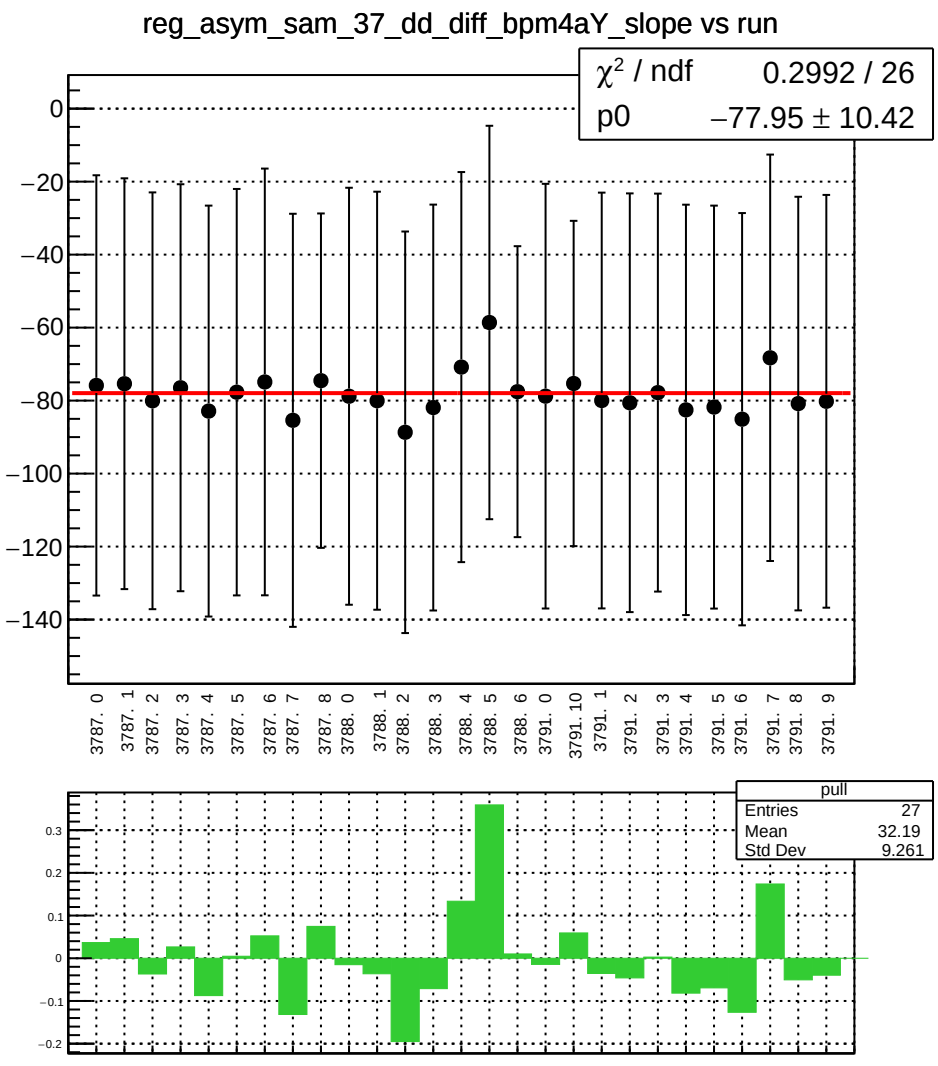

pull1D
Entries 27
Mean −0.005769
Std Dev 0.3825
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

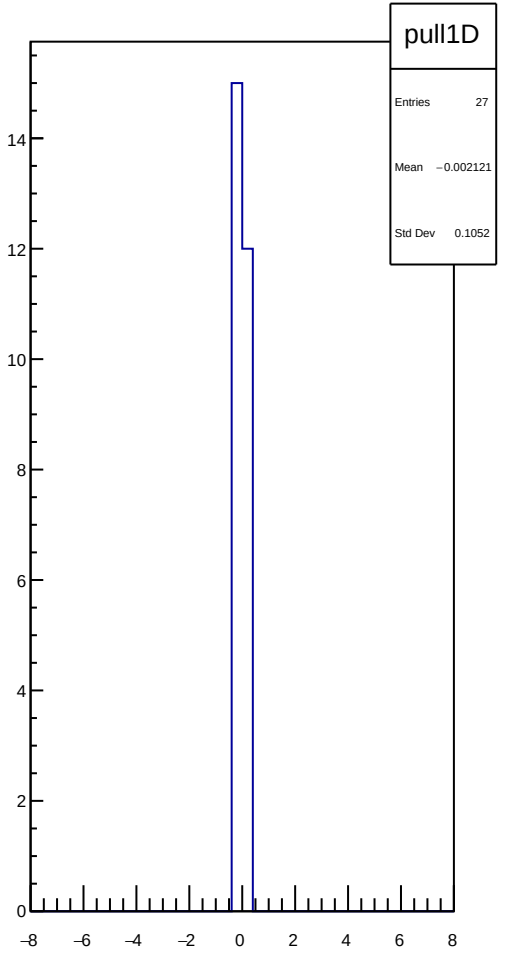

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4168 / 26
p0 76.53 ± 12.06
160
140
120
100
80
60
40
20
0
−20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 30.32
Std Dev 11.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 27
Mean 0.00363
Std Dev 0.1242
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

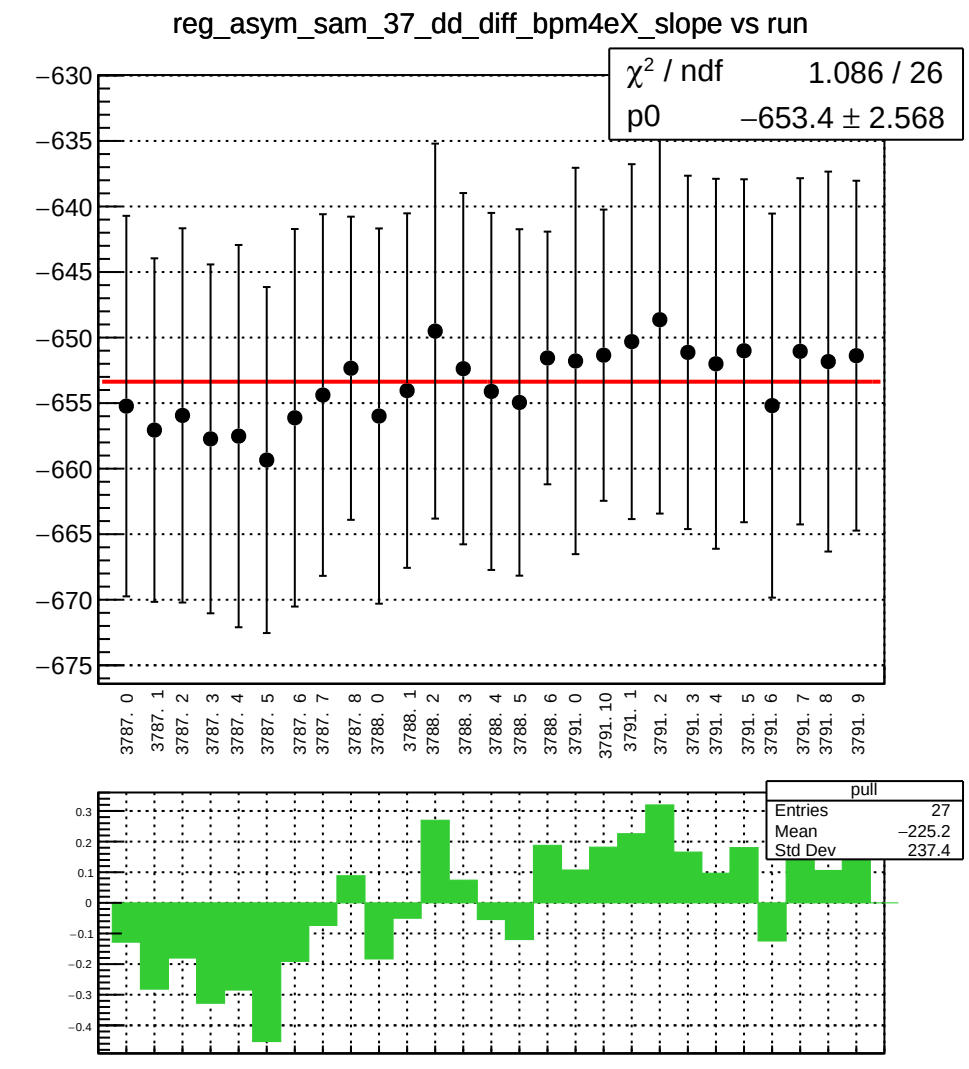

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 0.3021 / 26
p0 7.076 ± 2.65
25
20
15
10
5
0
−5
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 76.11
Std Dev 51.47
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 27
Mean −0.001583
Std Dev 0.1058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

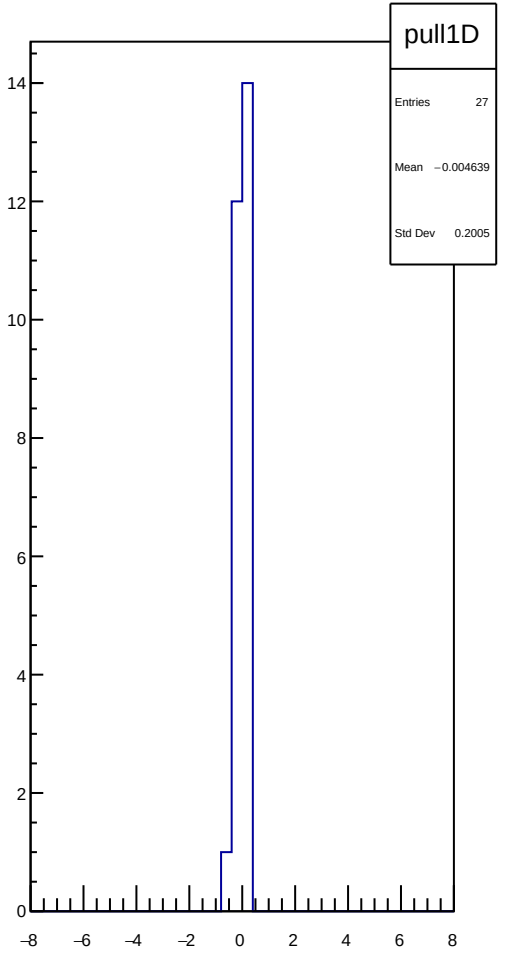

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.7939 / 26
p0 92.6 ± 13.51
200
150
100
50
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 125.4
Std Dev 111.4
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

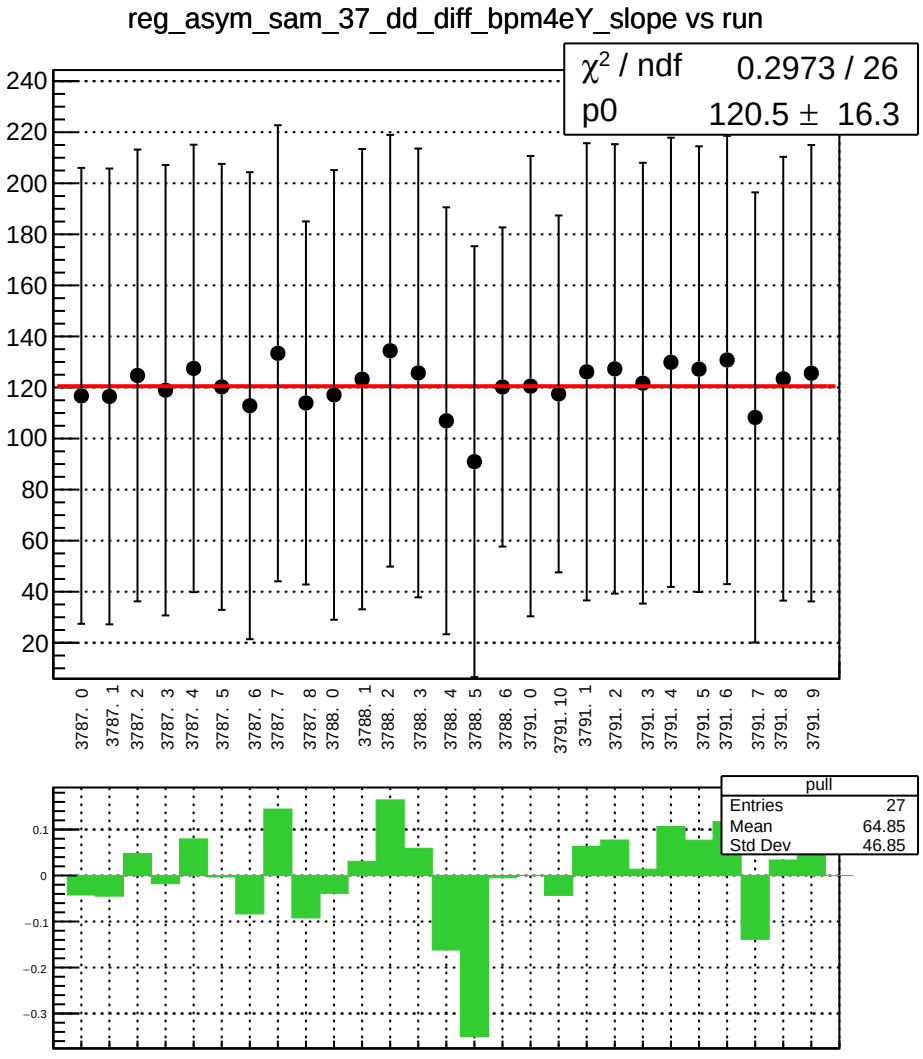

pull1D
Entries 27
Mean −0.001532
Std Dev 0.1715
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.2992 / 26
p0 −77.95 ± 10.42
0
−20
−40
−60
−80
−100
−120
−140
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 32.19
Std Dev 9.261
0.3
0.2
0.1
0
−0.1
−0.2


pull1D
Entries 27
Mean −0.002121
Std Dev 0.1052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.086 / 26
p0 −653.4 ± 2.568
−630
−635
−640
−645
−650
−655
−660
−665
−670
−675
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −225.2
Std Dev 237.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4


pull1D
Entries 27
Mean −0.004639
Std Dev 0.2005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.2973 / 26
p0 120.5 ± 16.3
240
220
200
180
160
140
120
100
80
60
40
20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
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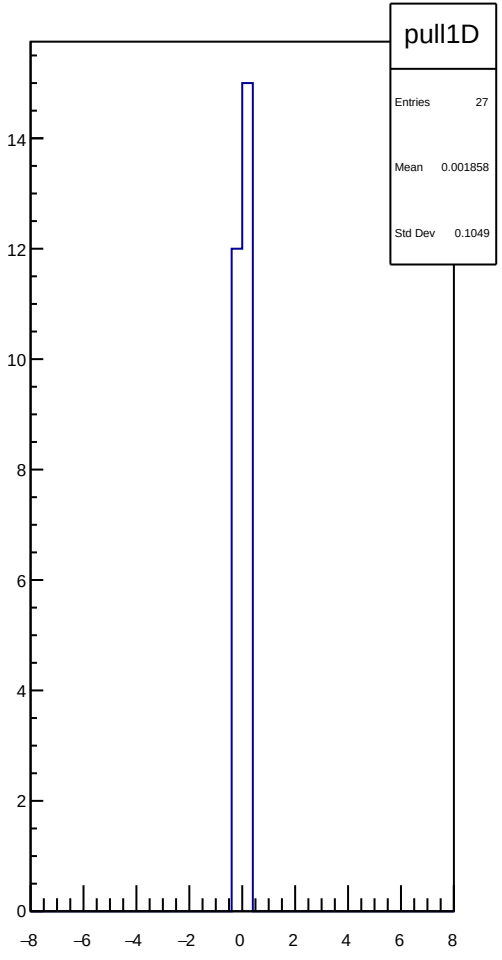
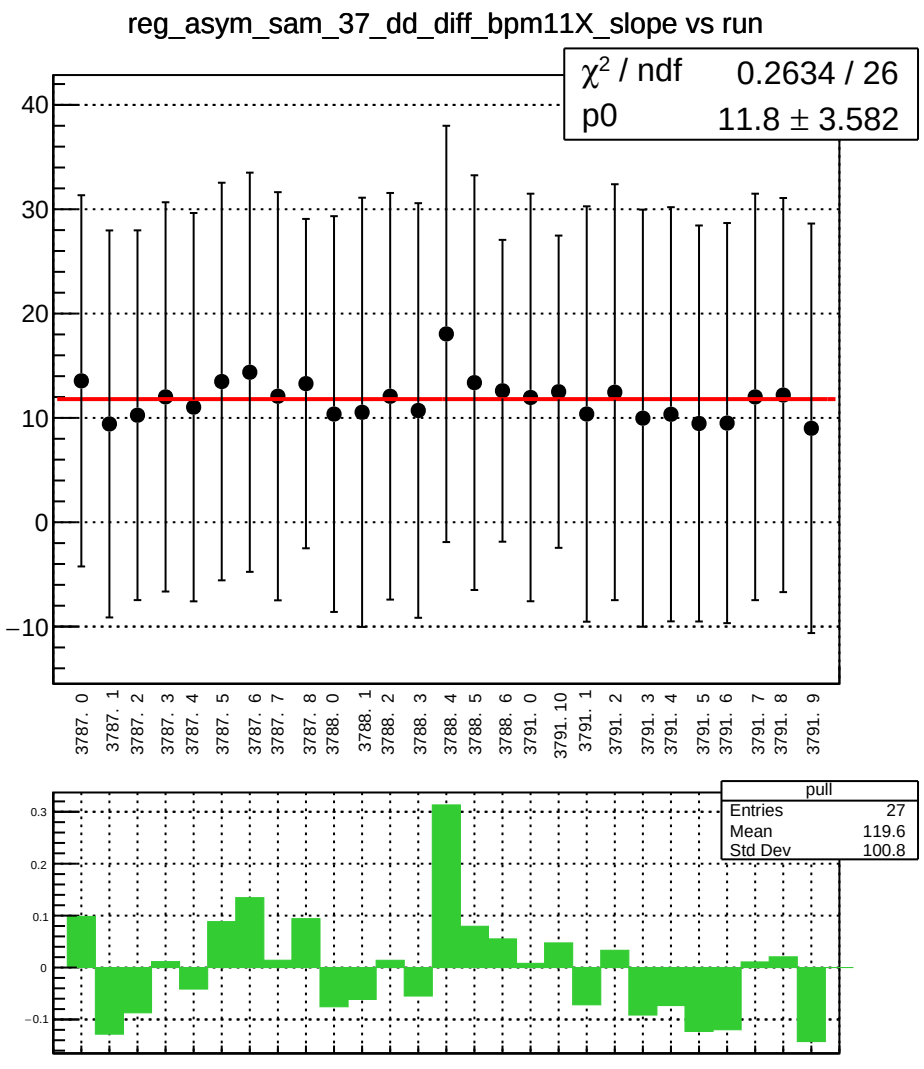
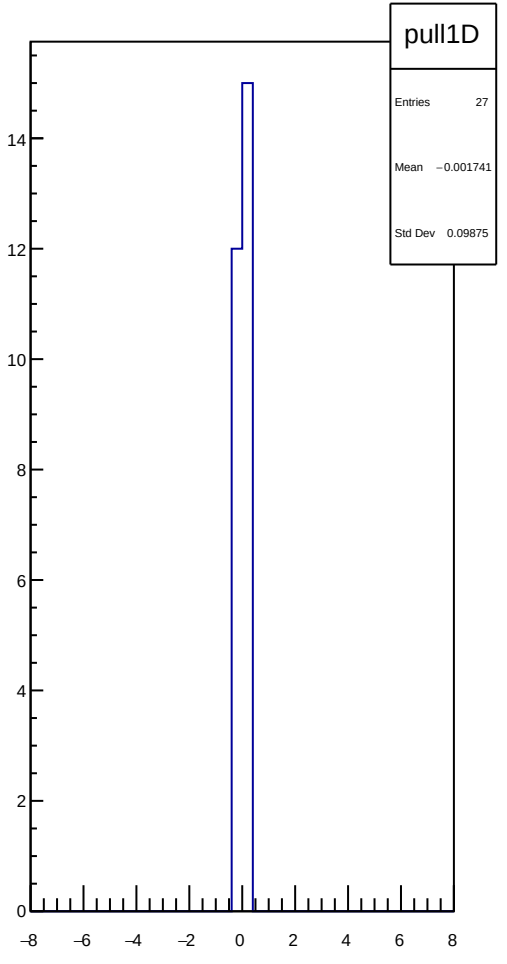
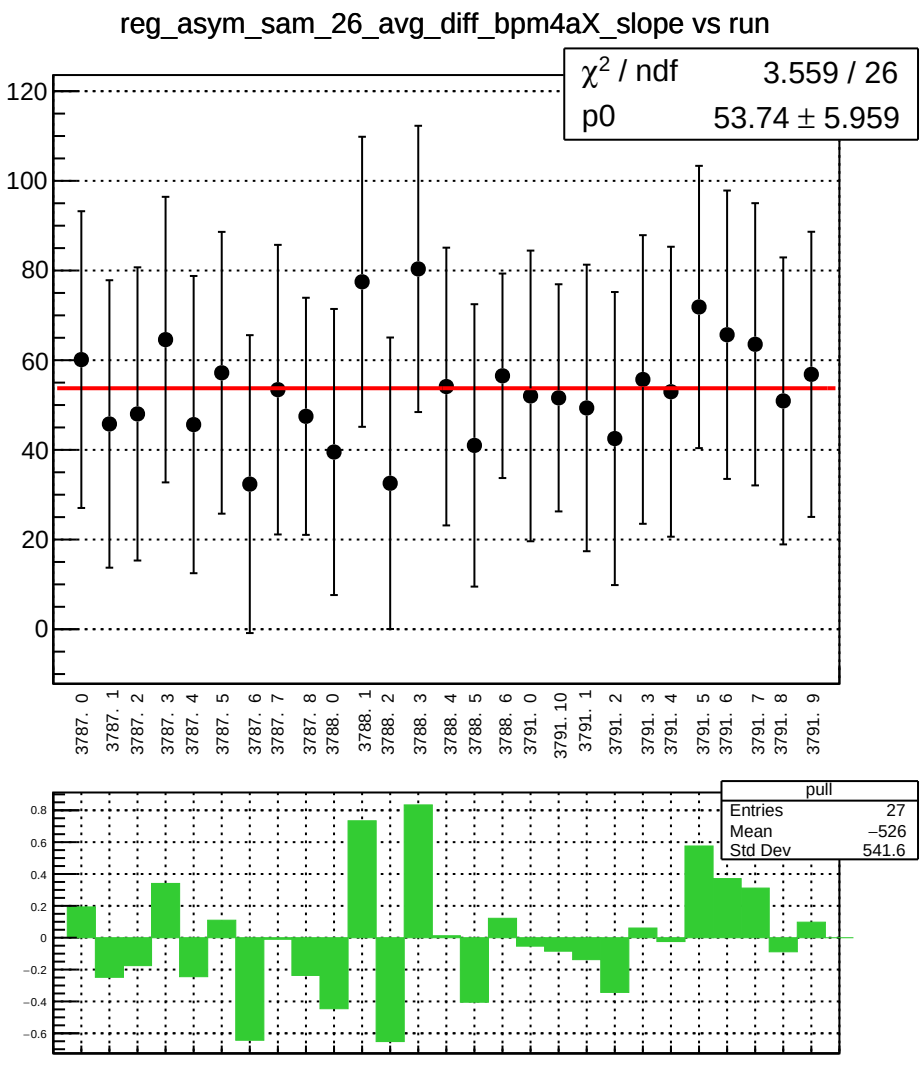
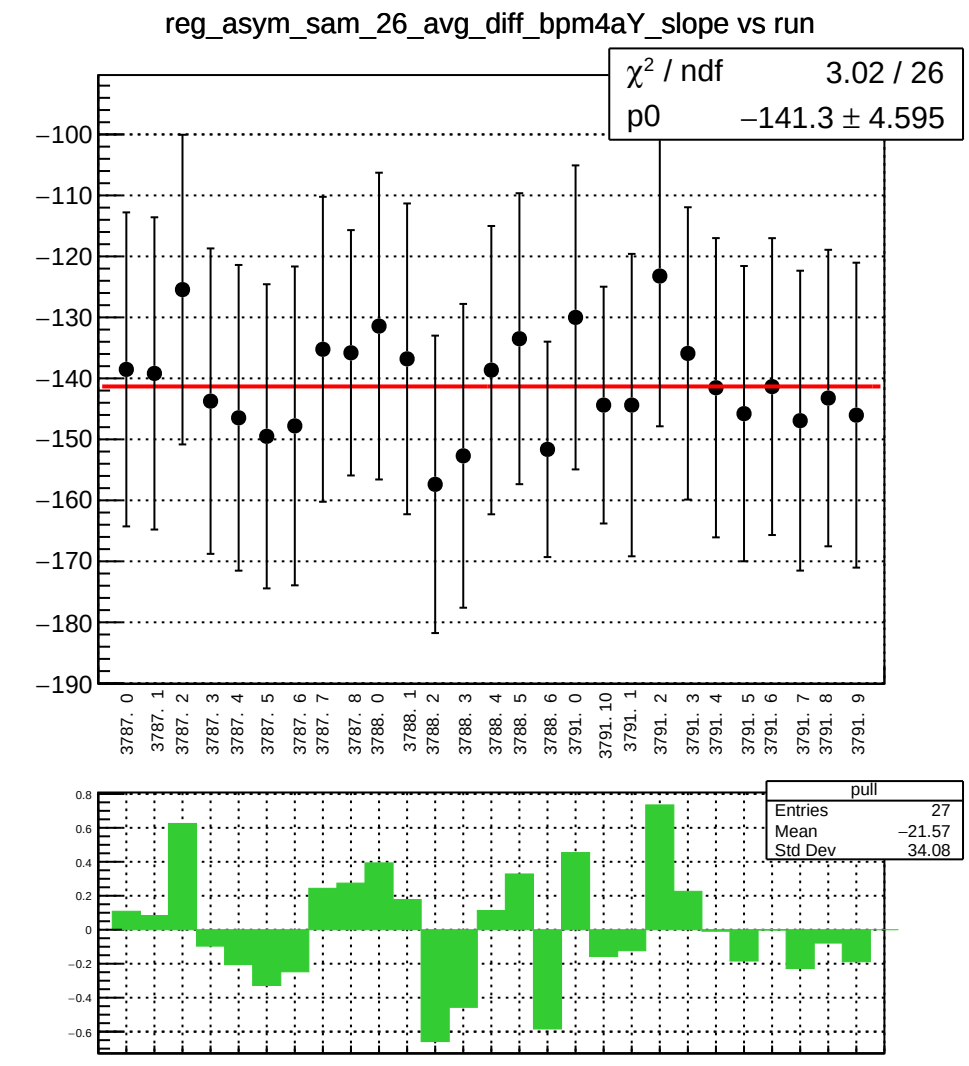
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 64.85
Std Dev 46.85
0.1
0
−0.1
−0.2
−0.3

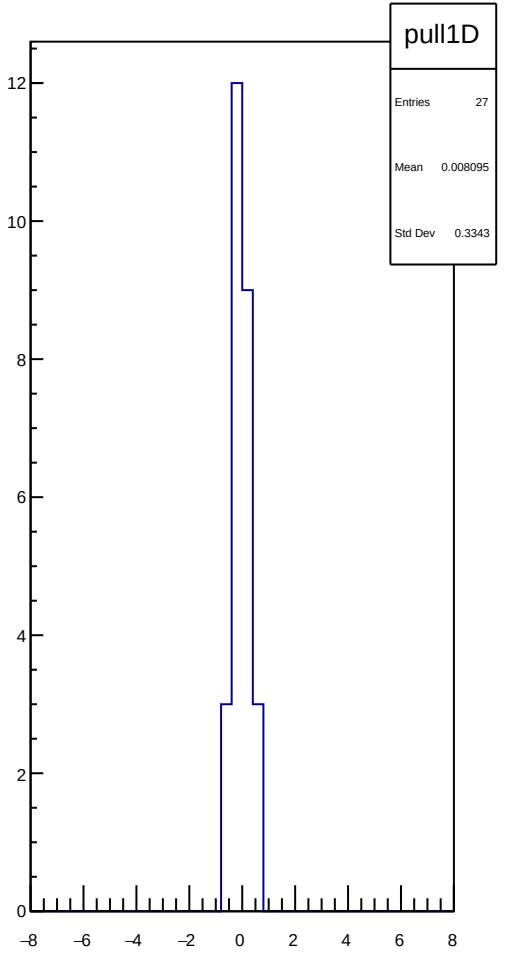

pull1D
Entries 27
Mean 0.001858
Std Dev 0.1049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

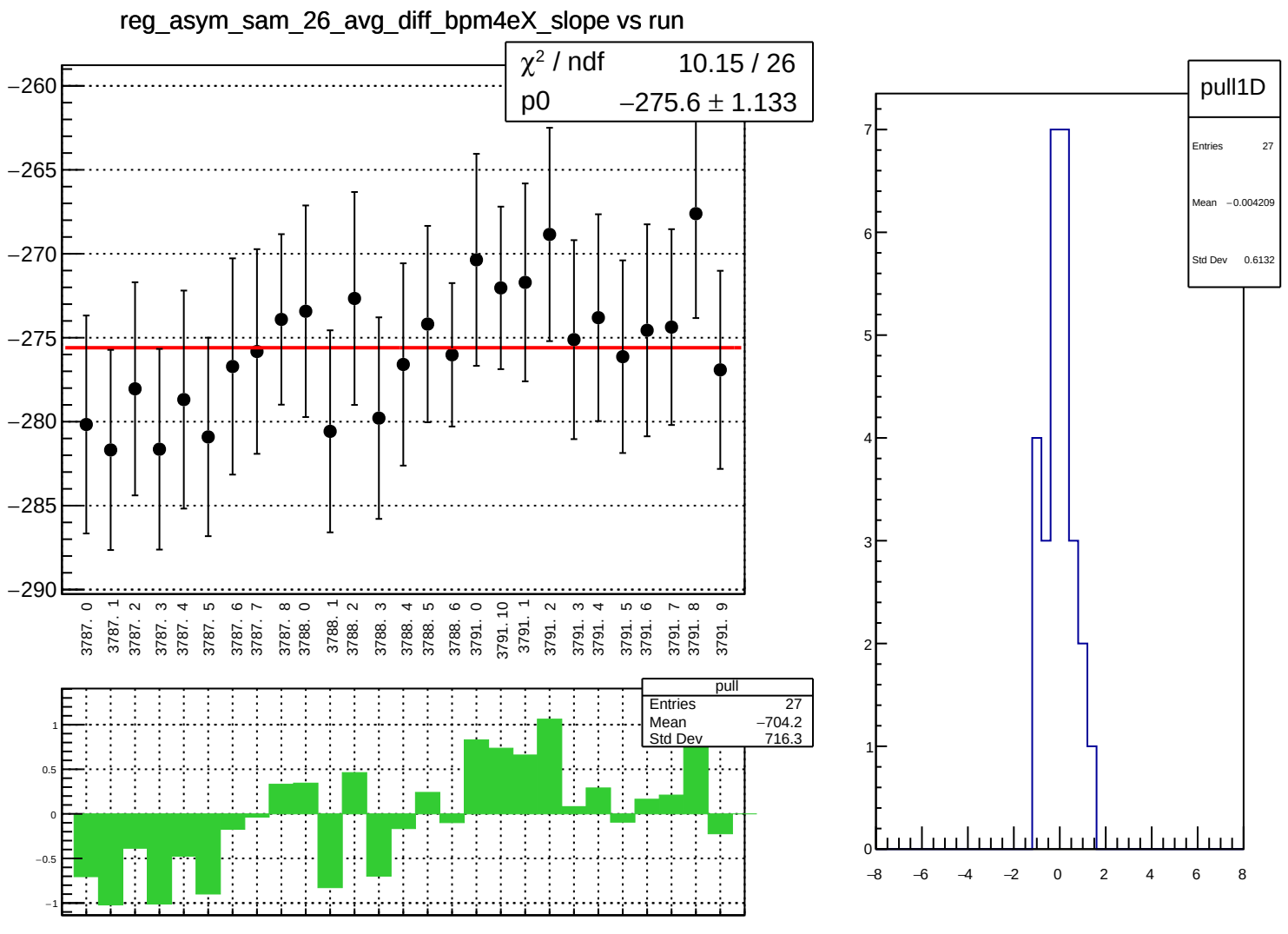

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 0.2634 / 26
p0 11.8 ± 3.582
40
30
20
10
0
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 119.6
Std Dev 100.8
0.3
0.2
0.1
0
−0.1

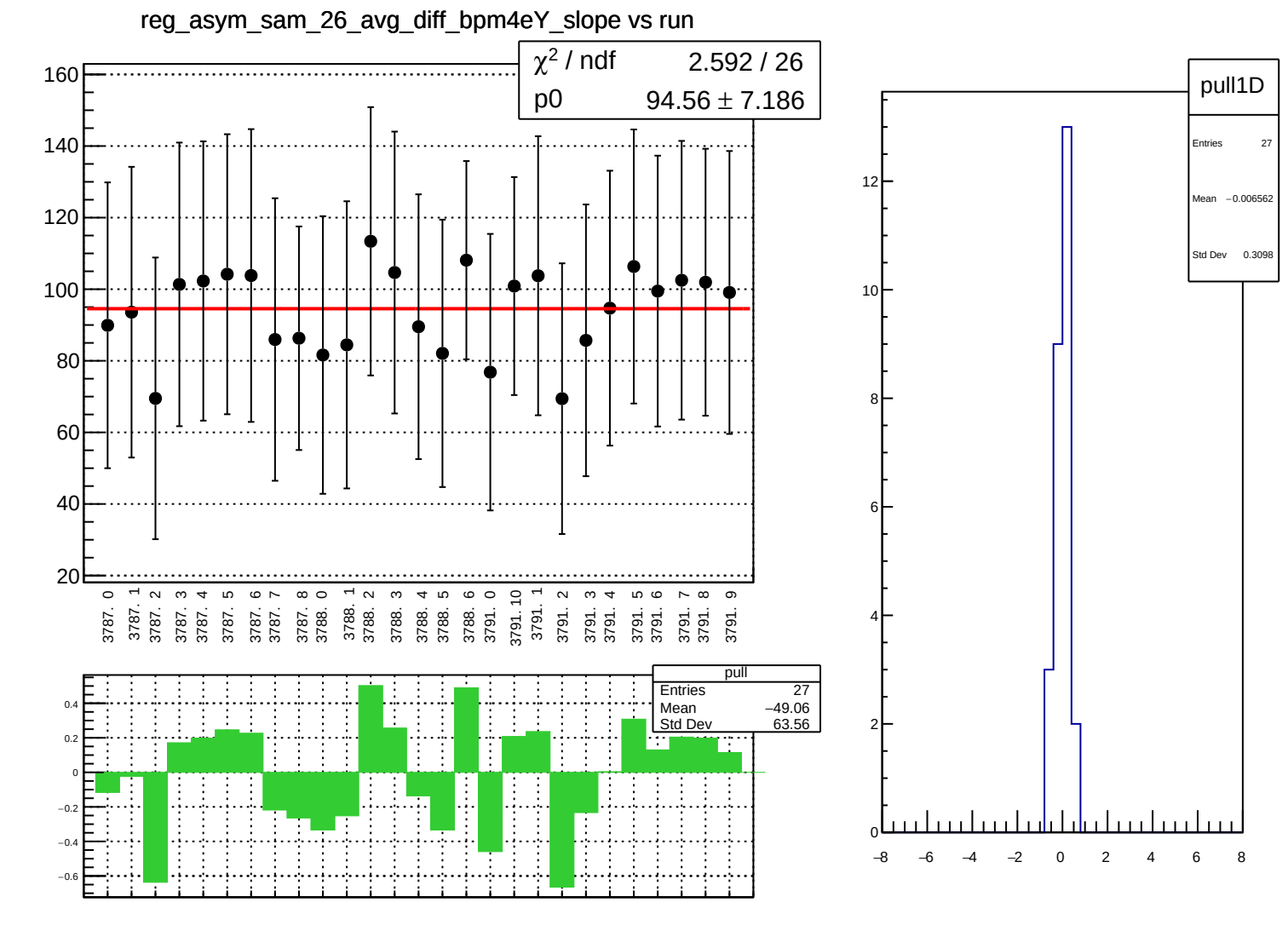

pull1D
Entries 27
Mean −0.001741
Std Dev 0.09875
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

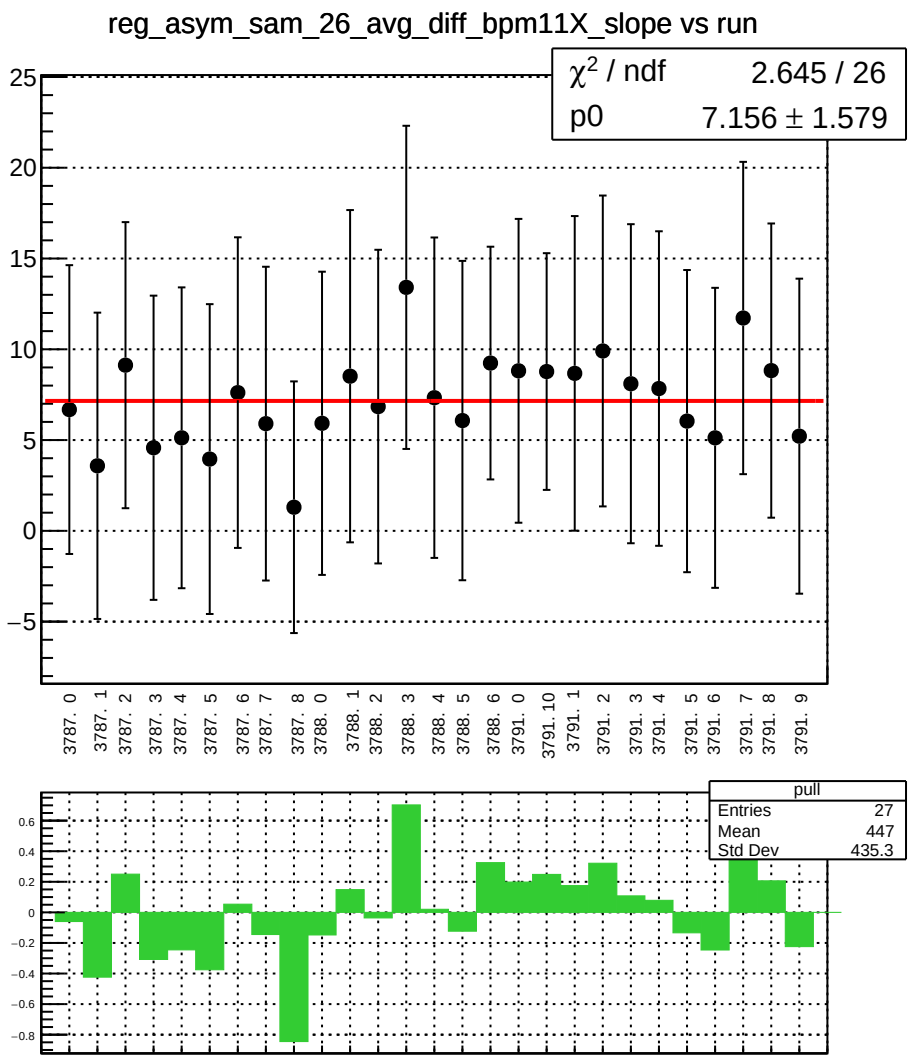

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.559 / 26
p0 53.74 ± 5.959
120
100
80
60
40
20
0
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −526
Std Dev 541.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 27
Mean −0.001062
Std Dev 0.363
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

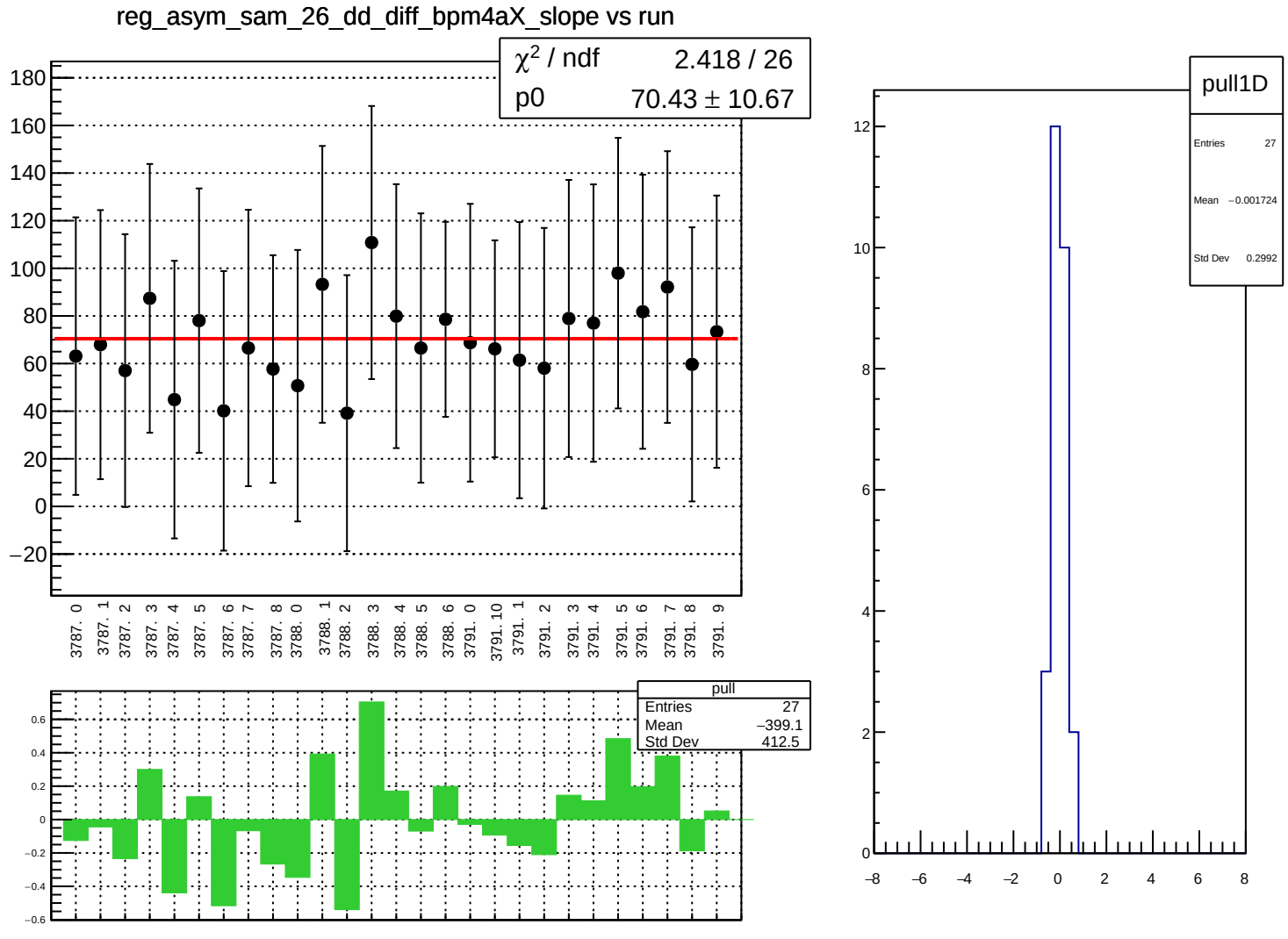

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.02 / 26
p0 −141.3 ± 4.595
−100
−110
−120
−130
−140
−150
−160
−170
−180
−190
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −21.57
Std Dev 34.08
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

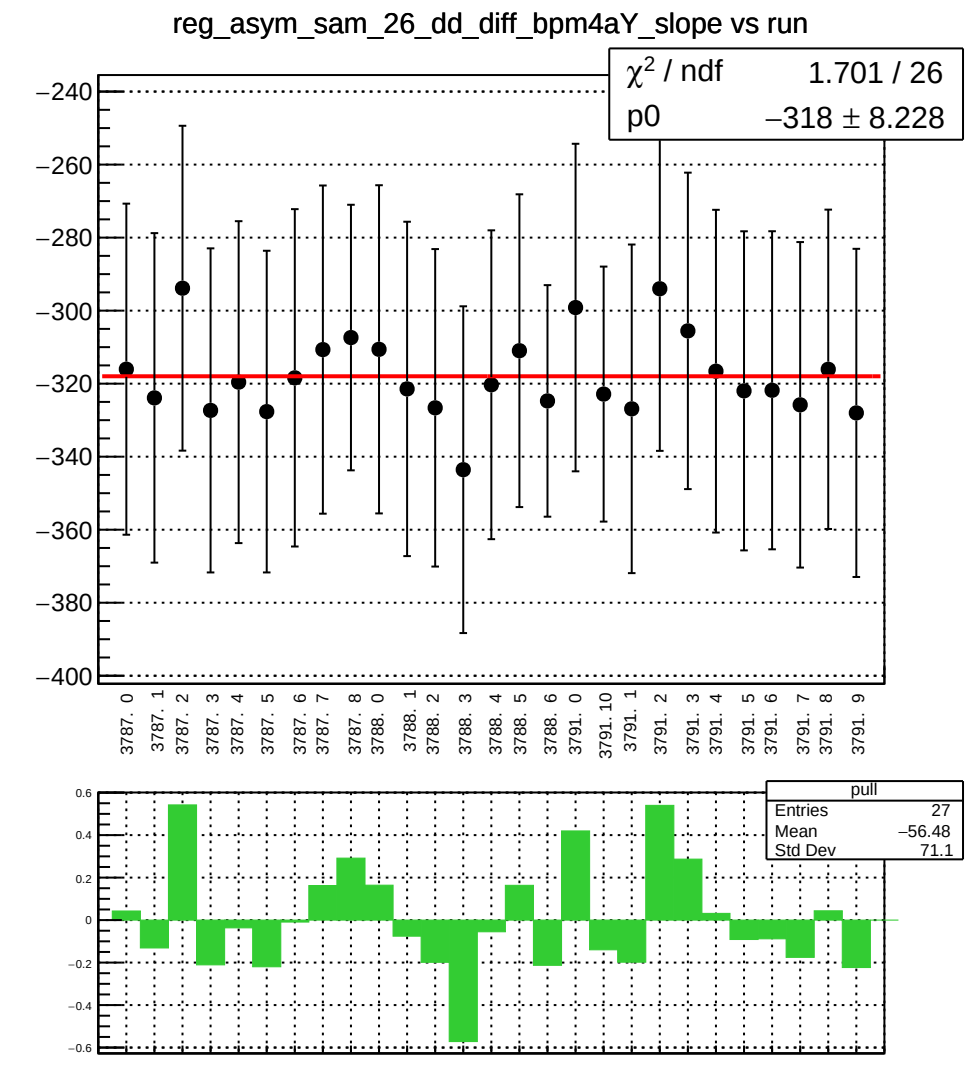

pull1D
Entries 27
Mean 0.008095
Std Dev 0.3343
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

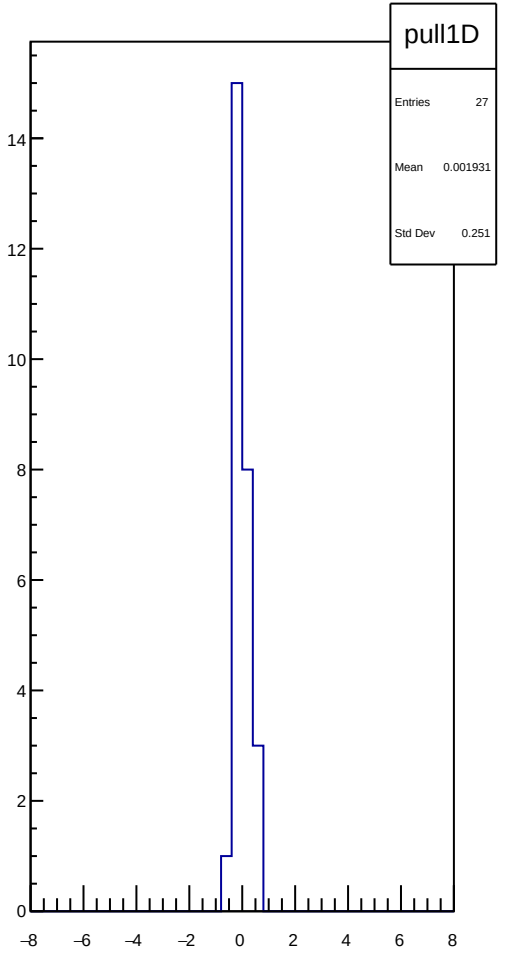

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.15 / 26
p0 −275.6 ± 1.133
−260
−265
−270
−275
−280
−285
−290
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −704.2
Std Dev 716.3
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean −0.004209
Std Dev 0.6132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

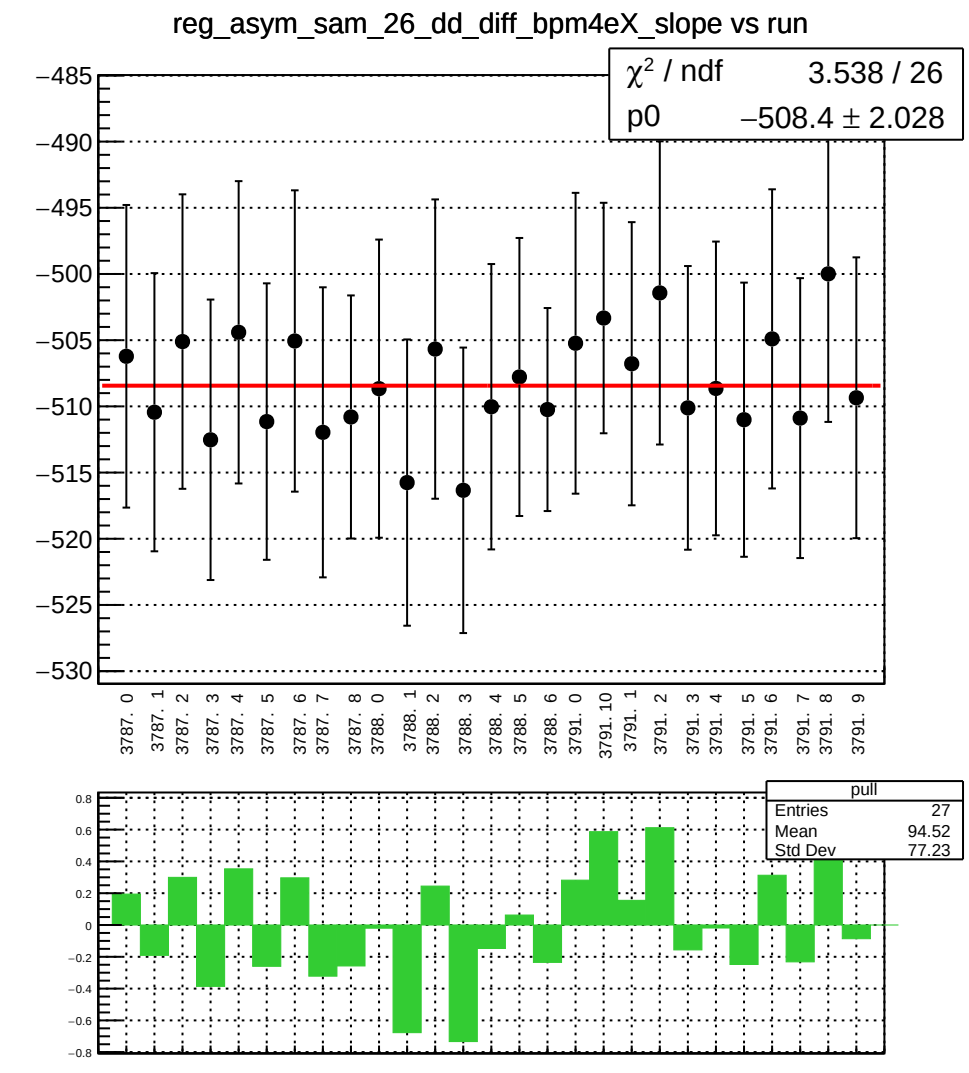

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.592 / 26
p0 94.56 ± 7.186
160
140
120
100
80
60
40
20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −49.06
Std Dev 63.56
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 27
Mean −0.006562
Std Dev 0.3098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

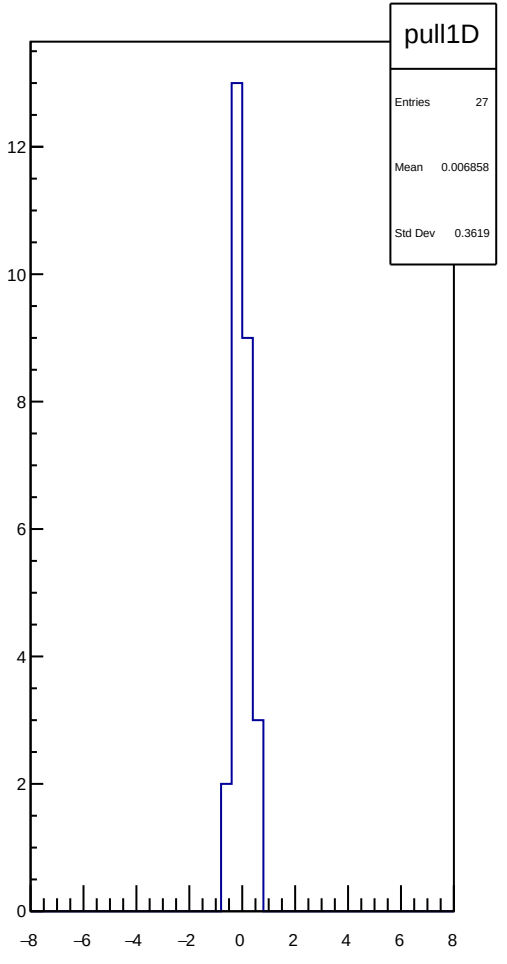

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 2.645 / 26
p0 7.156 ± 1.579
25
20
15
10
5
0
−5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 447
Std Dev 435.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 27
Mean 0.002023
Std Dev 0.313
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

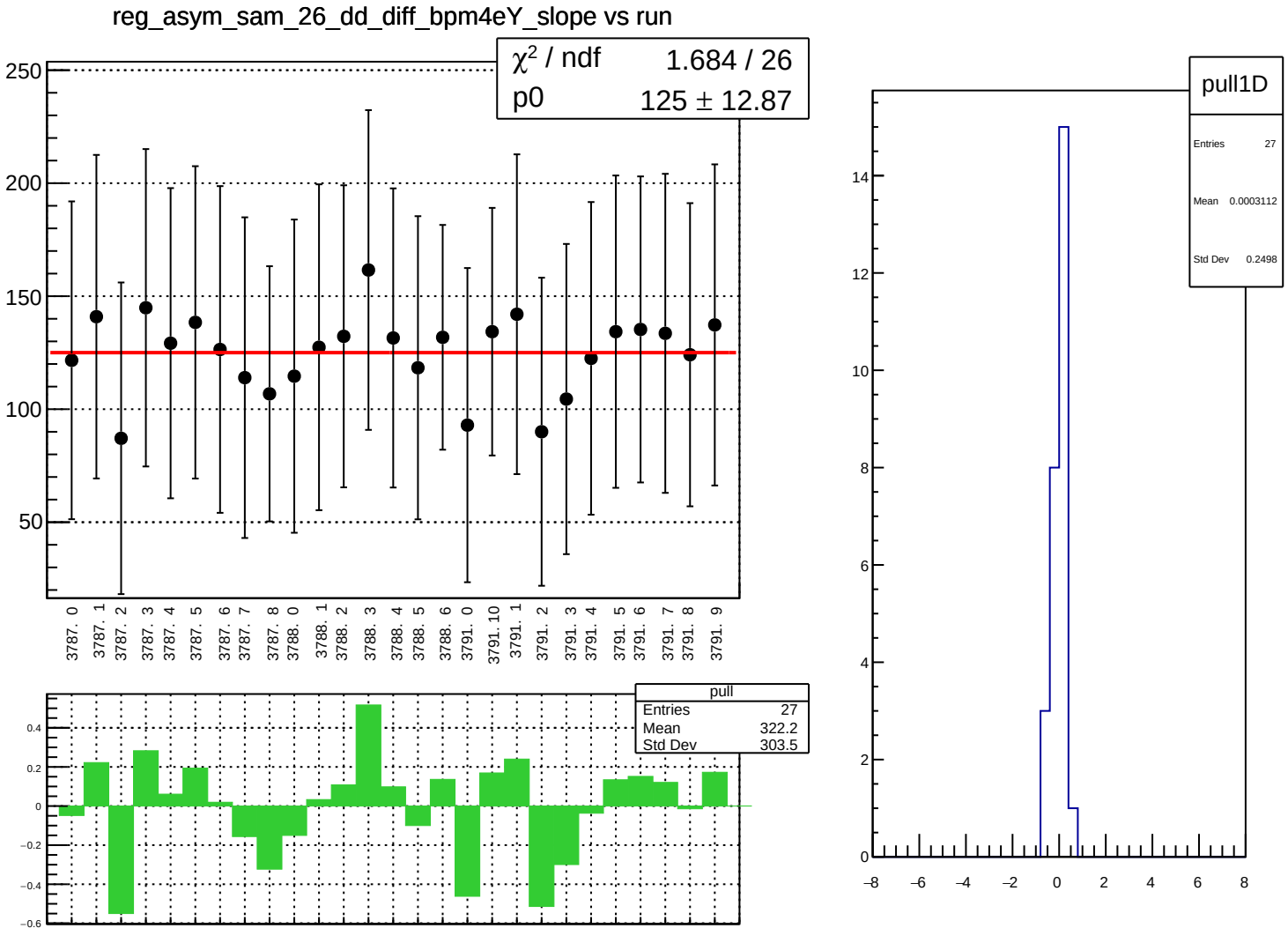

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 2.418 / 26
p0 70.43 ± 10.67
180
160
140
120
100
80
60
40
20
0
−20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −399.1
Std Dev 412.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 27
Mean −0.001724
Std Dev 0.2992
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

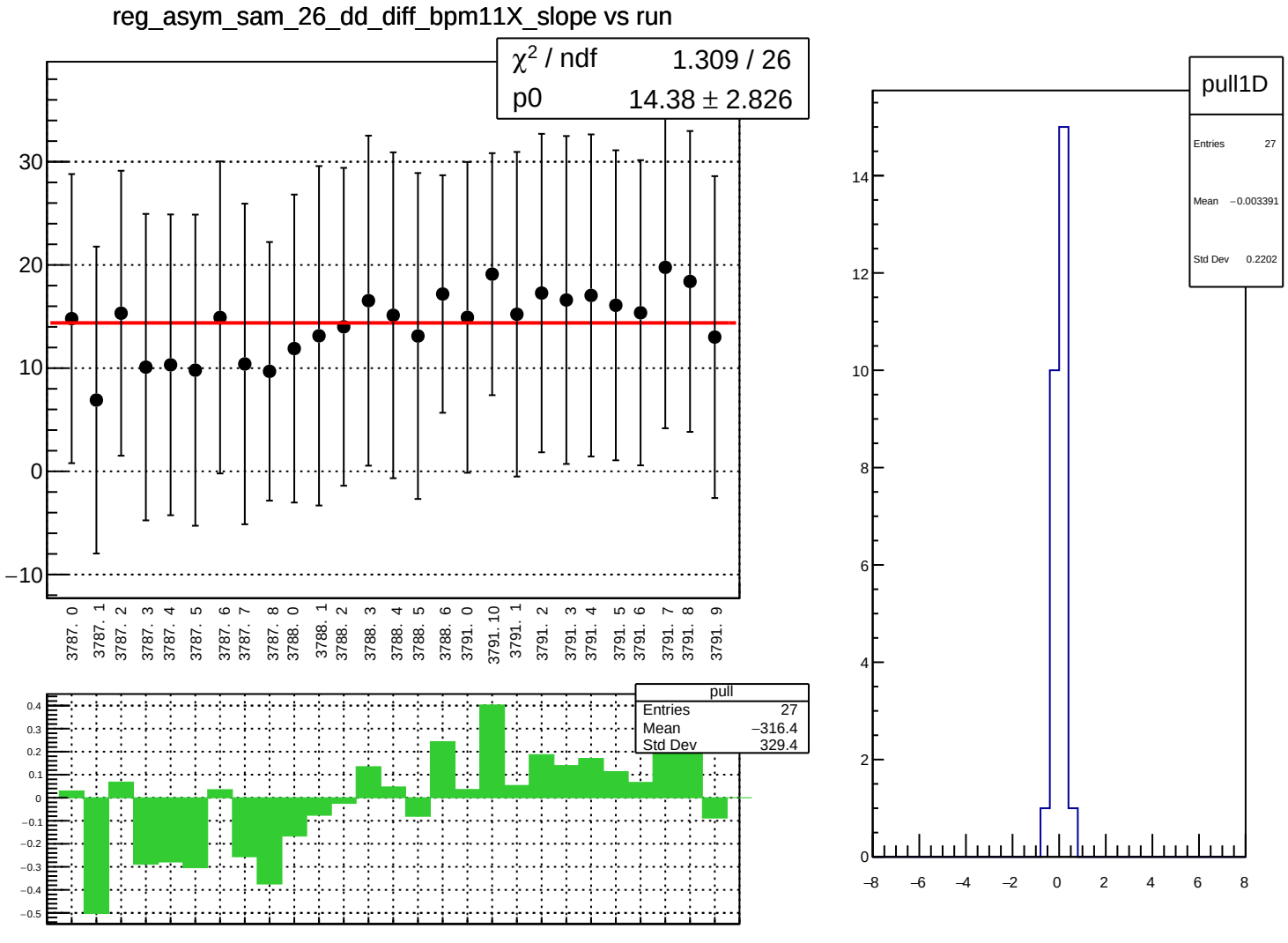

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.701 / 26
p0 −318 ± 8.228
−240
−260
−280
−300
−320
−340
−360
−380
−400
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −56.48
Std Dev 71.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

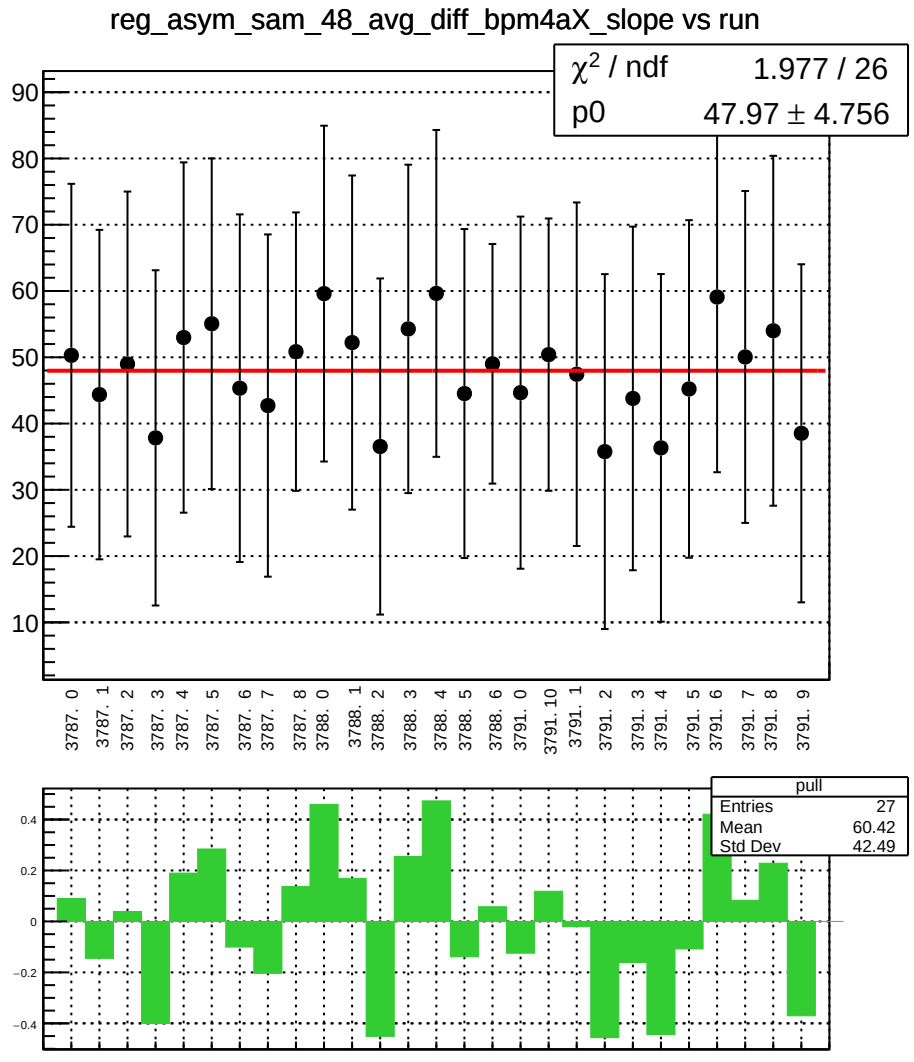

pull1D
Entries 27
Mean 0.001931
Std Dev 0.251
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

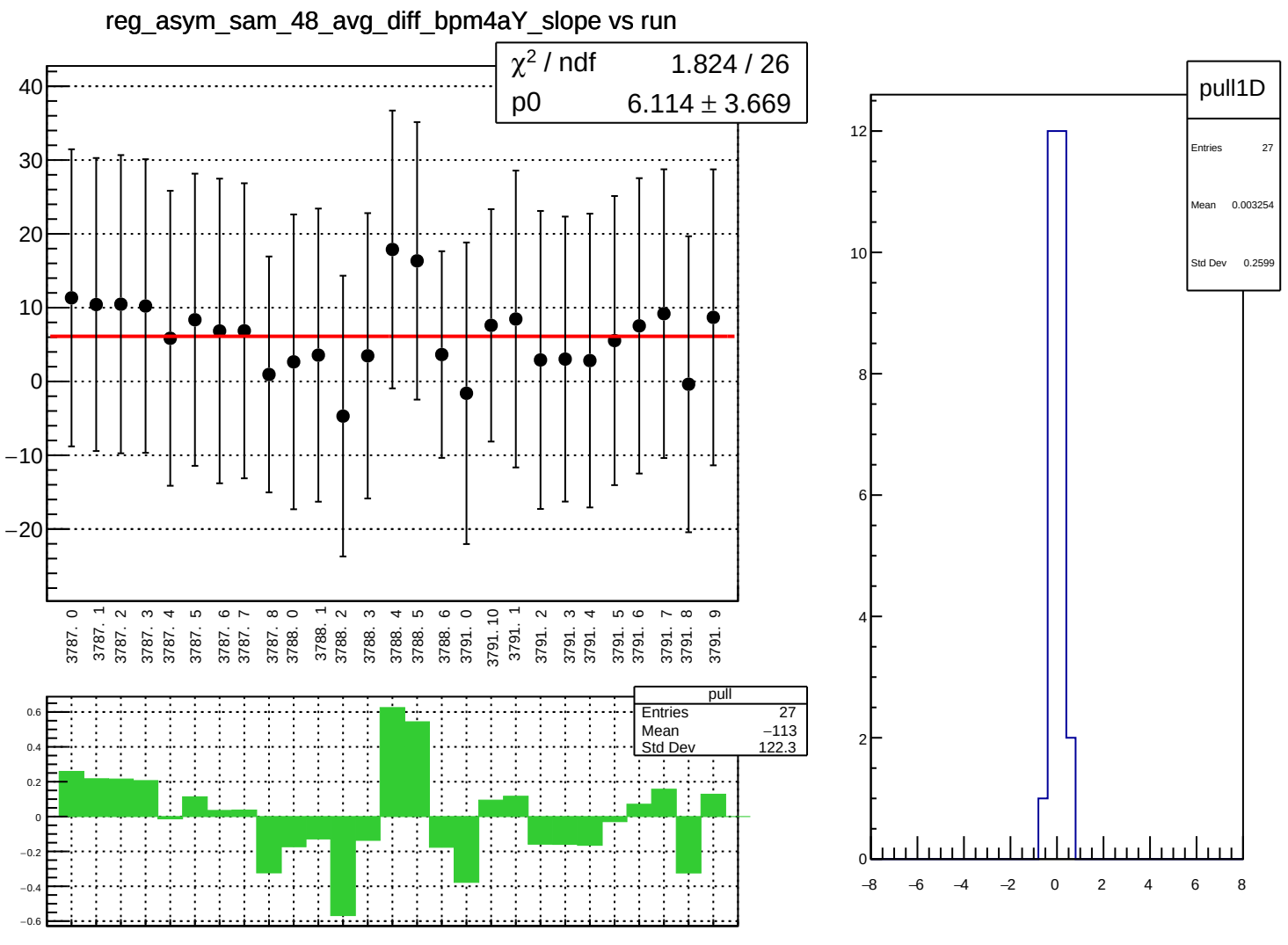

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.538 / 26
p0 −508.4 ± 2.028
−485
−490
−495
−500
−505
−510
−515
−520
−525
−530
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 94.52
Std Dev 77.23
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

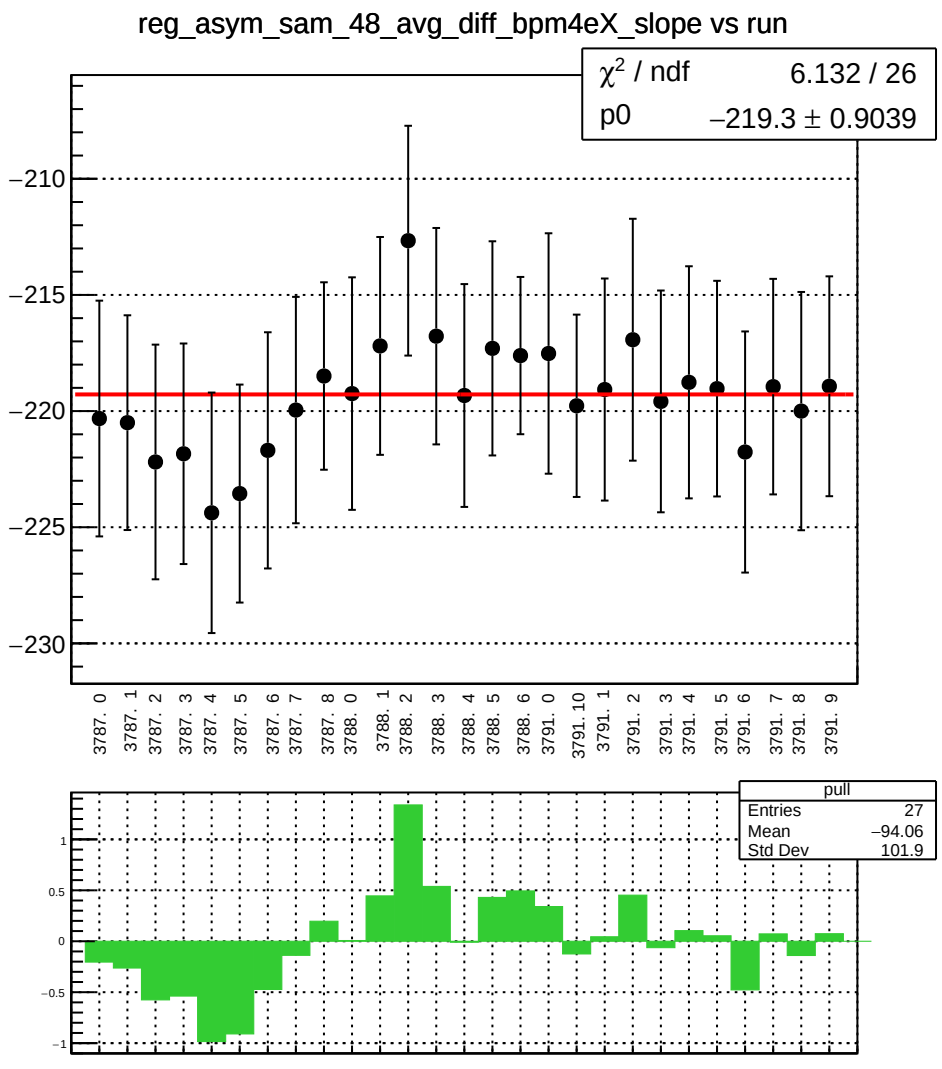

pull1D
Entries 27
Mean 0.006858
Std Dev 0.3619
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

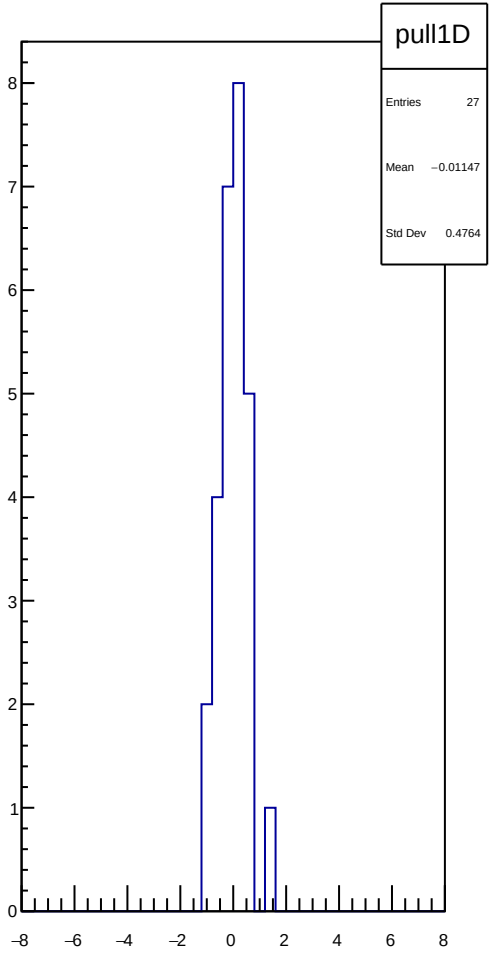

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.684 / 26
p0 125 ± 12.87
250
200
150
100
50
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 322.2
Std Dev 303.5
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 27
Mean 0.0003112
Std Dev 0.2498
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

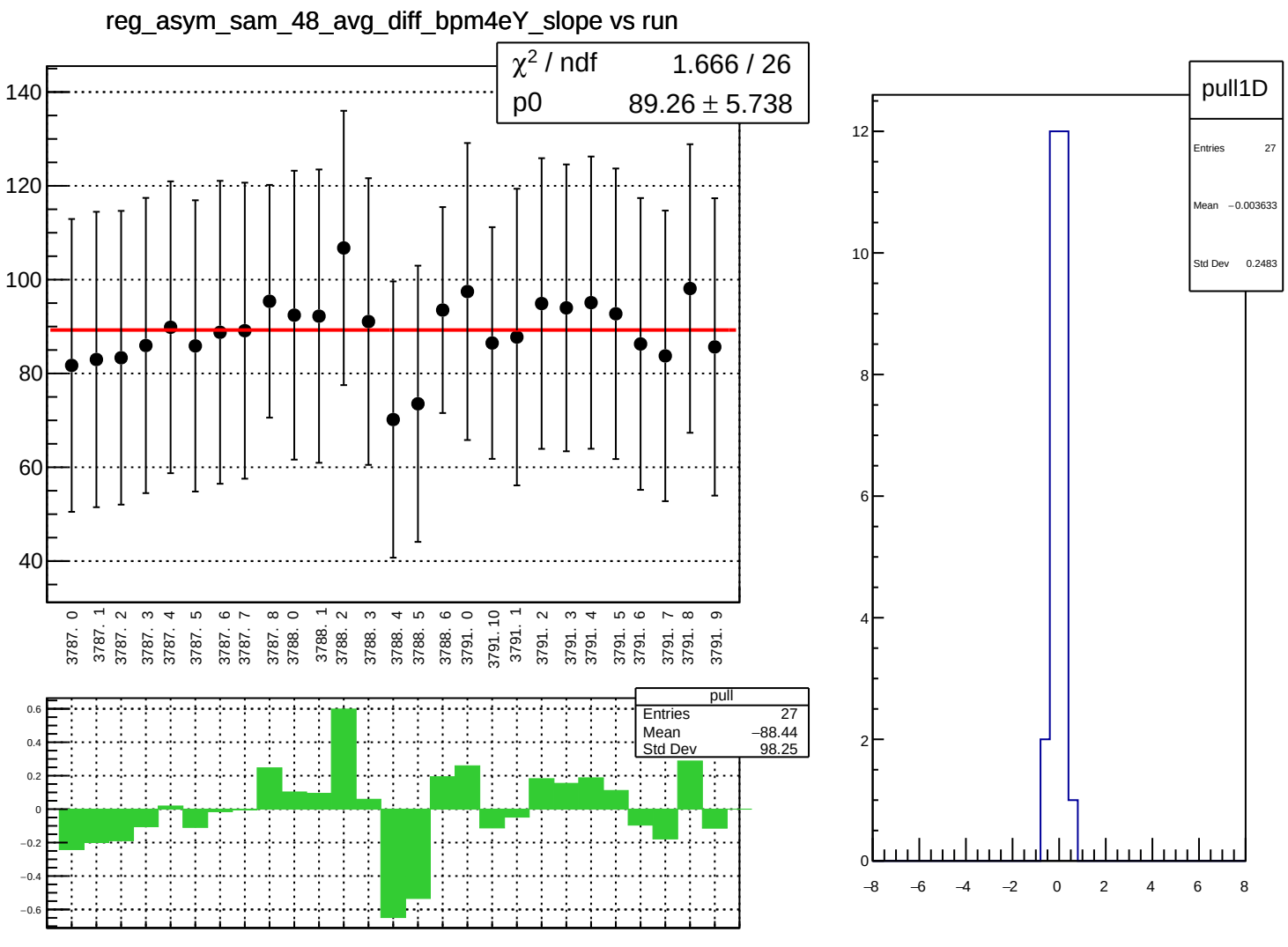

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 1.309 / 26
p0 14.38 ± 2.826
30
20
10
0
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −316.4
Std Dev 329.4
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 27
Mean −0.003391
Std Dev 0.2202
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

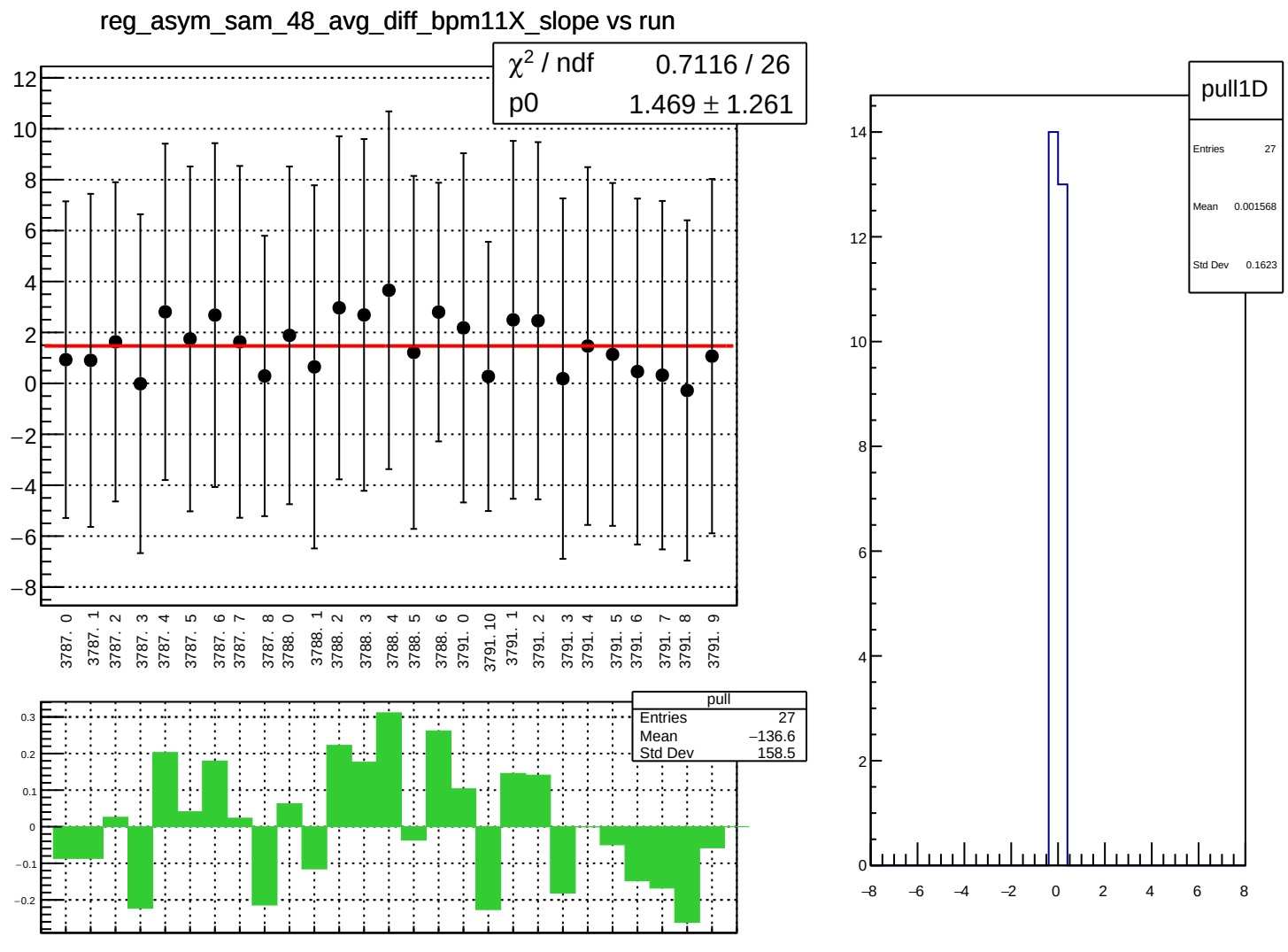

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.977 / 26
p0 47.97 ± 4.756
90
80
70
60
50
40
30
20
10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 60.42
Std Dev 42.49
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 27
Mean −0.00446
Std Dev 0.2706
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

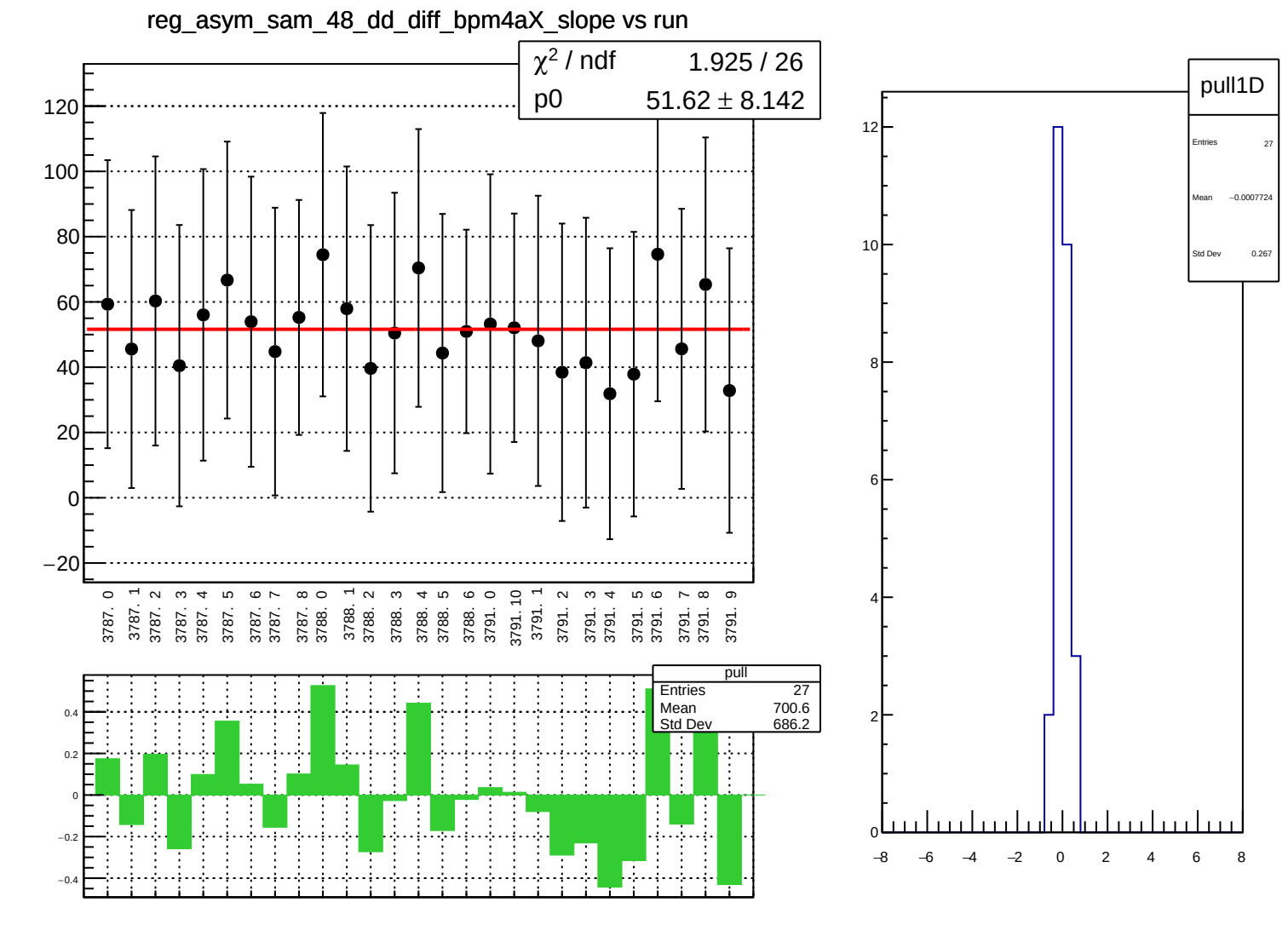

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.824 / 26
p0 6.114 ± 3.669
40
30
20
10
0
−10
−20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −113
Std Dev 122.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 27
Mean 0.003254
Std Dev 0.2599
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

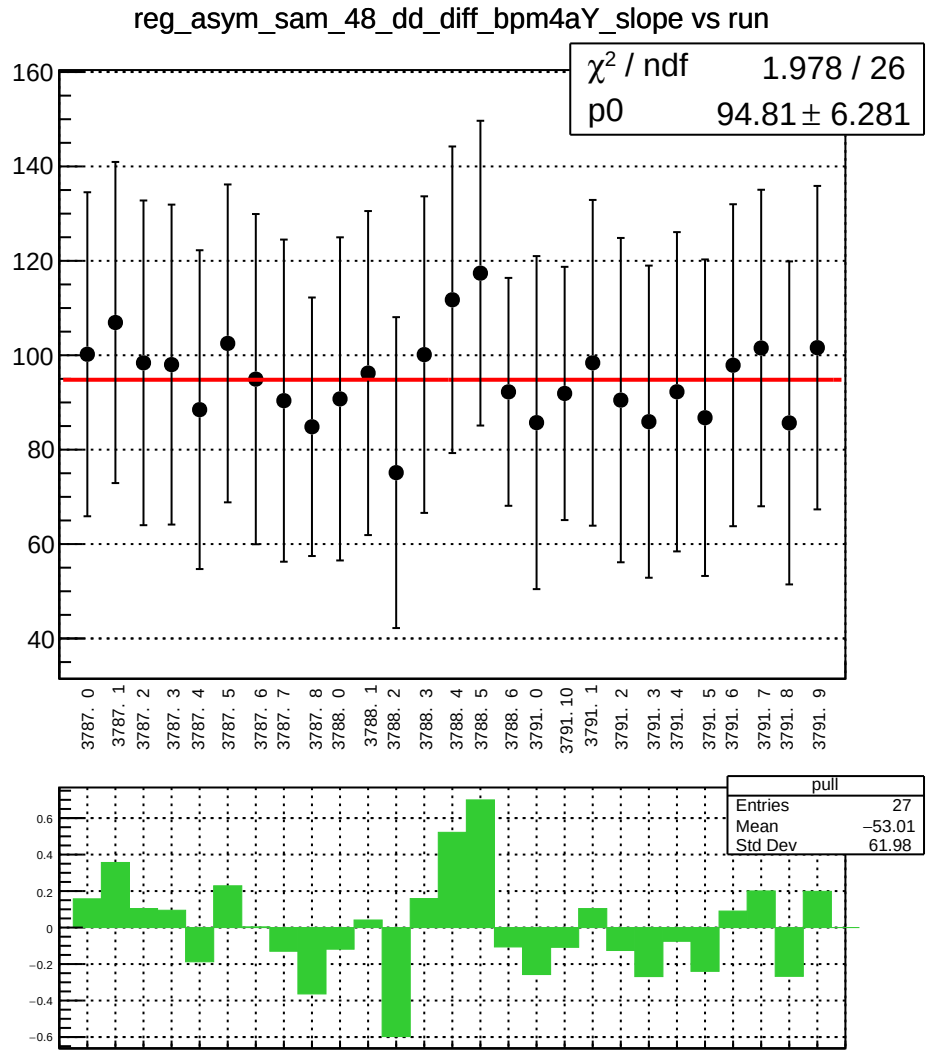

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.132 / 26
p0 −219.3 ± 0.9039
−210
−215
−220
−225
−230
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −94.06
Std Dev 101.9
1
0.5
0
−0.5
−1

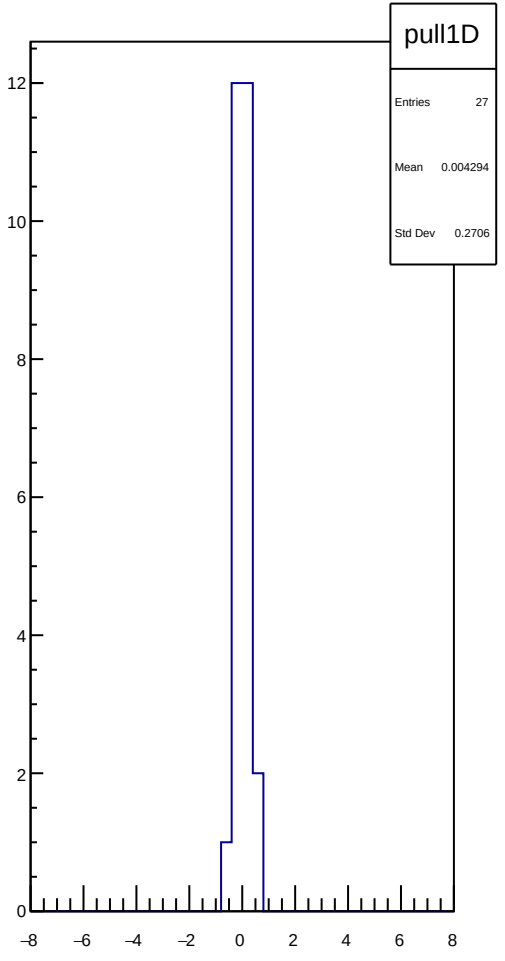

pull1D
Entries 27
Mean −0.01147
Std Dev 0.4764
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

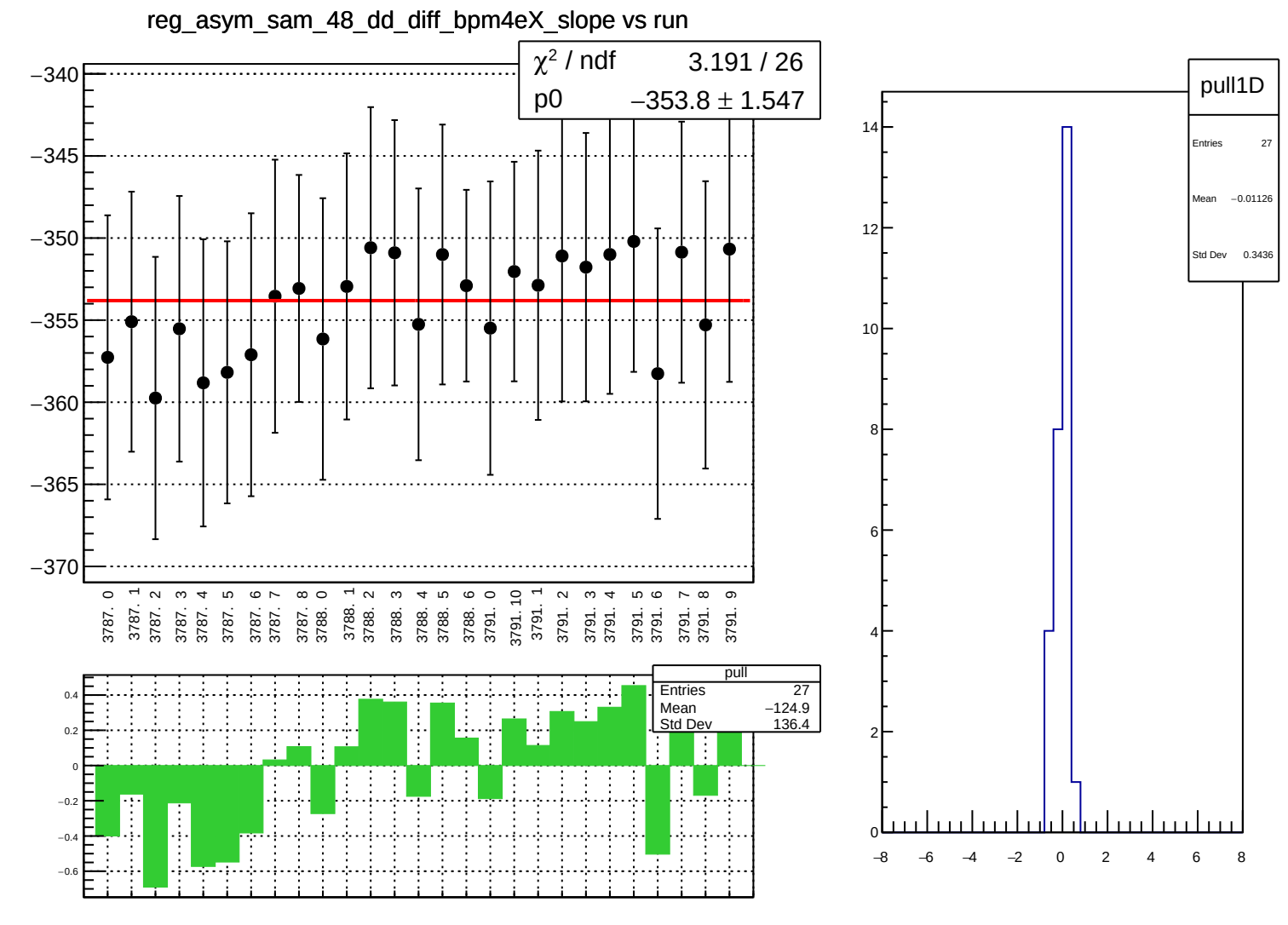

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.666 / 26
p0 89.26 ± 5.738
140
120
100
80
60
40
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −88.44
Std Dev 98.25
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 27
Mean −0.003633
Std Dev 0.2483
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

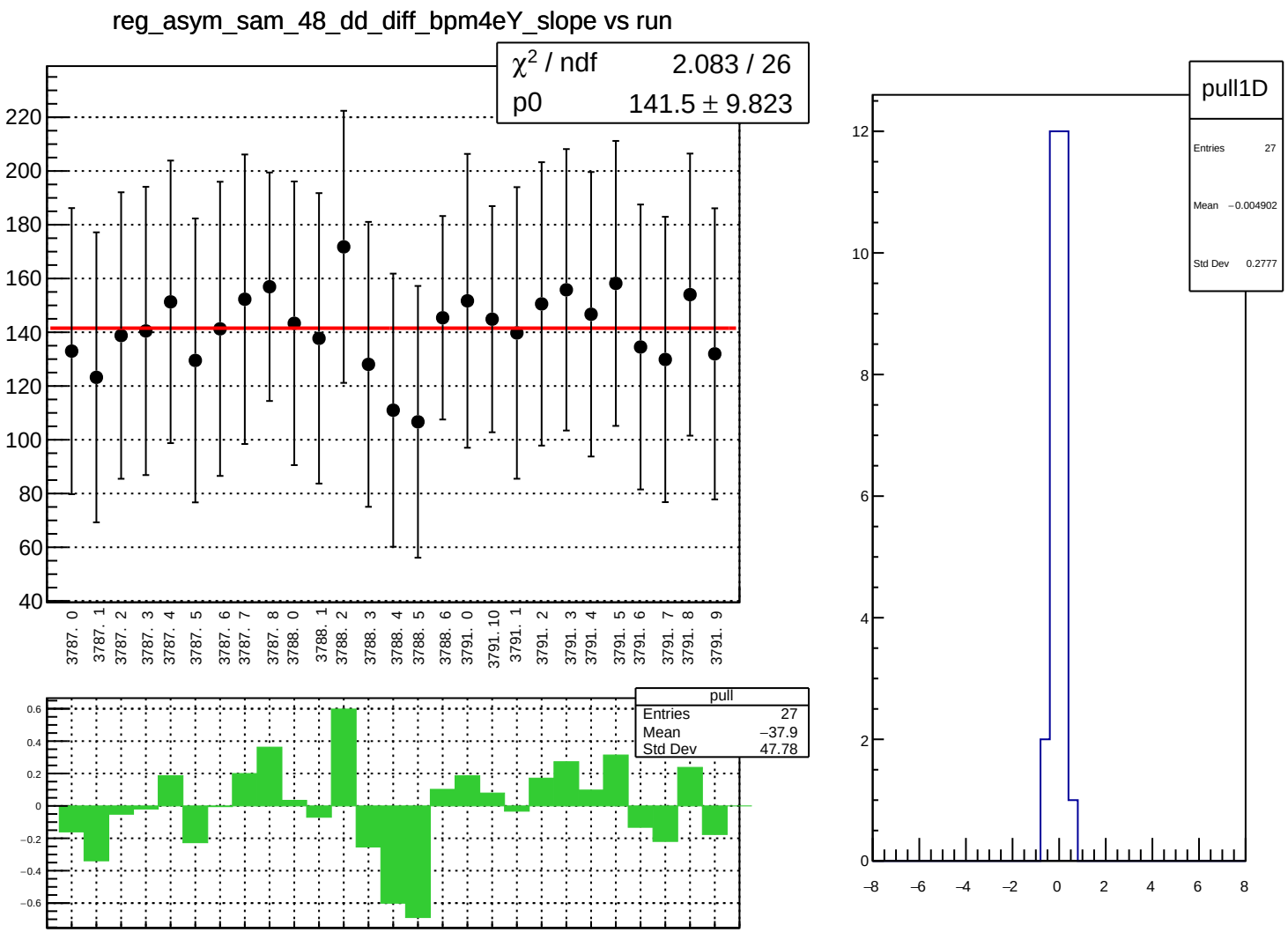

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 0.7116 / 26
p0 1.469 ± 1.261
12
10
8
6
4
2
0
−2
−4
−6
−8
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −136.6
Std Dev 158.5
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 27
Mean 0.001568
Std Dev 0.1623
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

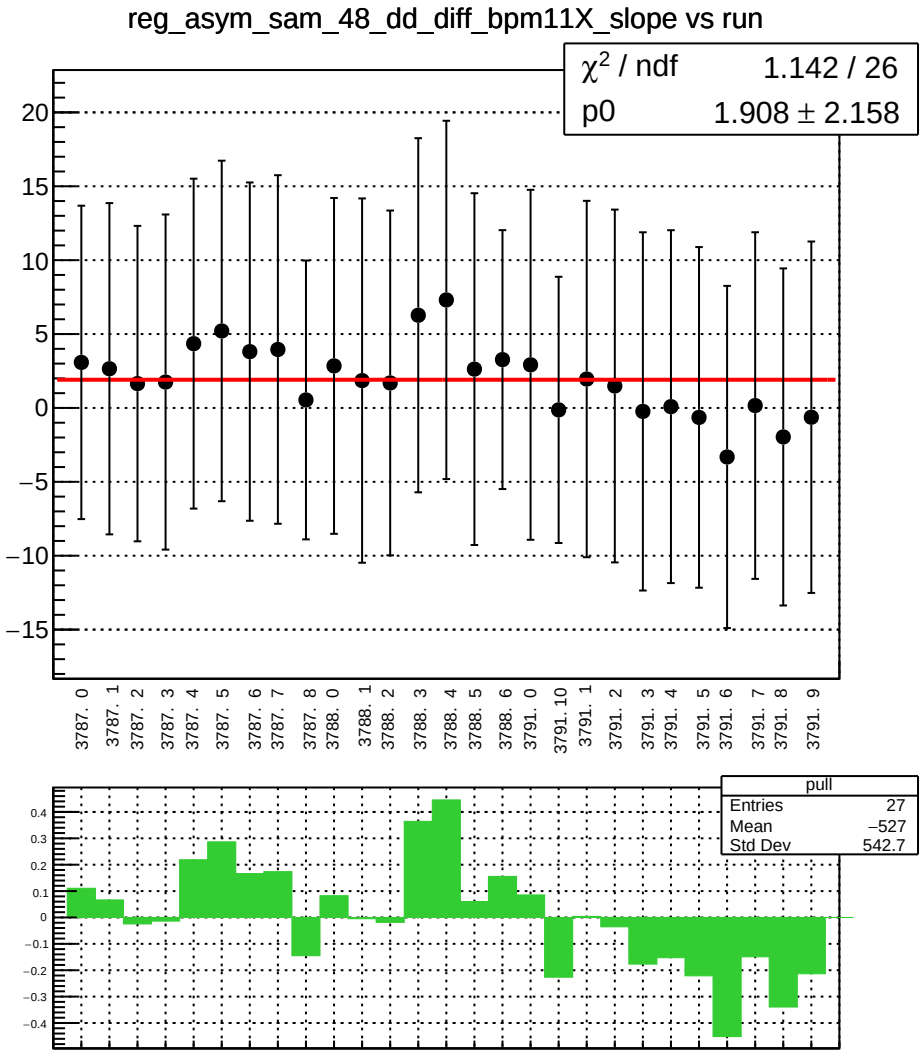

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 1.925 / 26
p0 51.62 ± 8.142
120
100
80
60
40
20
0
−20
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 700.6
Std Dev 686.2
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 27
Mean −0.0007724
Std Dev 0.267
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

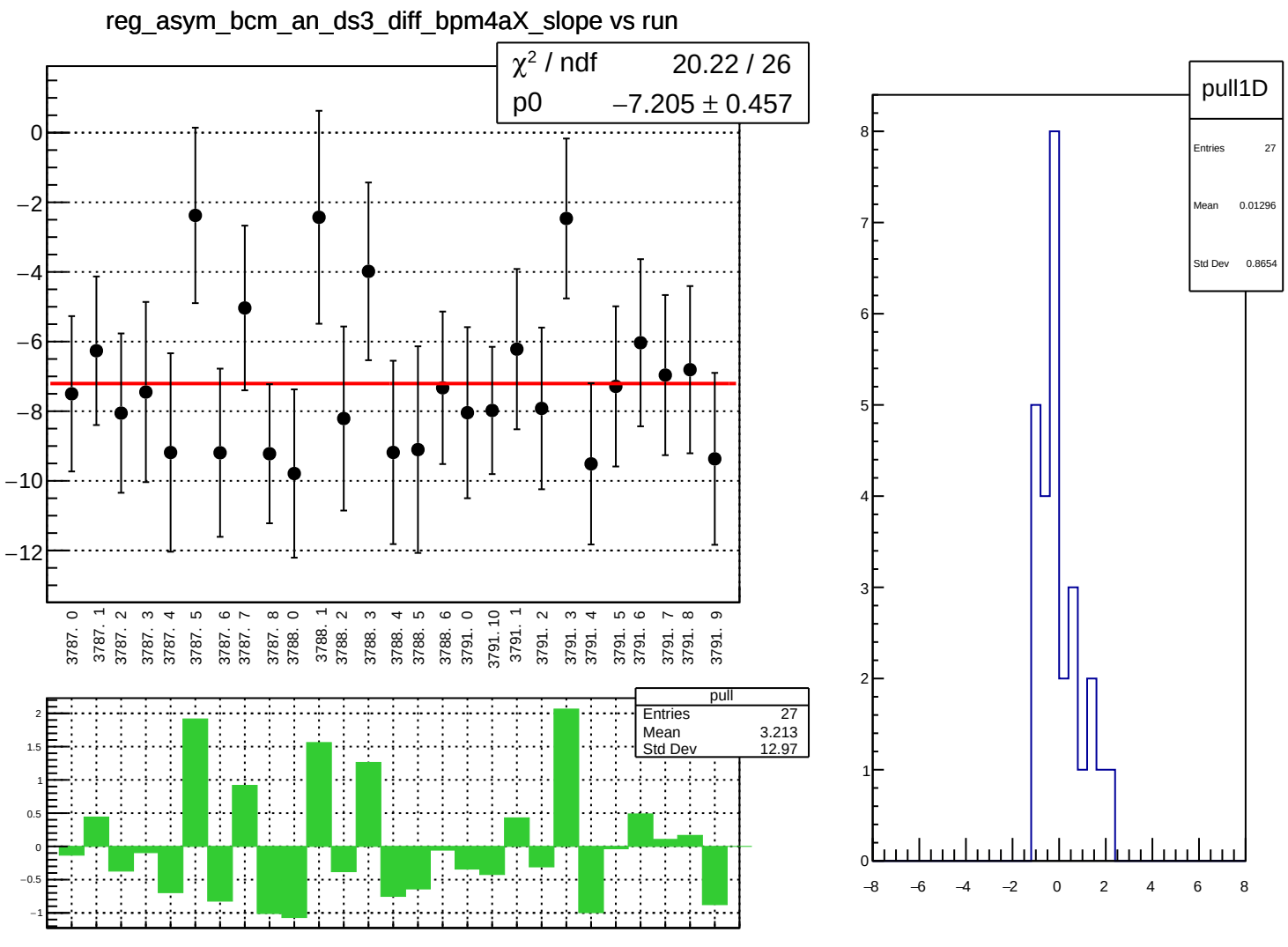

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.978 / 26
p0 94.81 ± 6.281
160
140
120
100
80
60
40
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −53.01
Std Dev 61.98
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

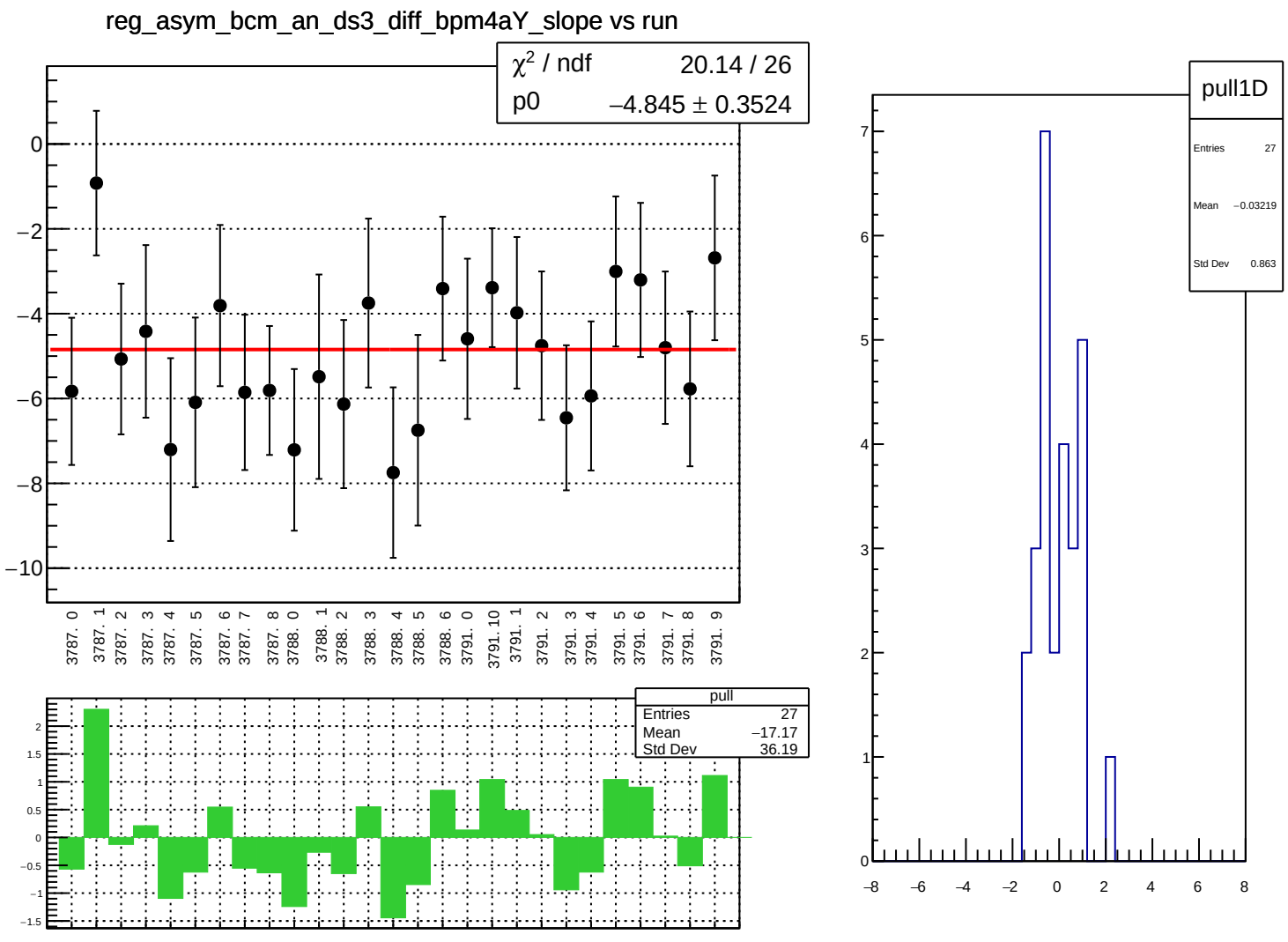

pull1D
Entries 27
Mean 0.004294
Std Dev 0.2706
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

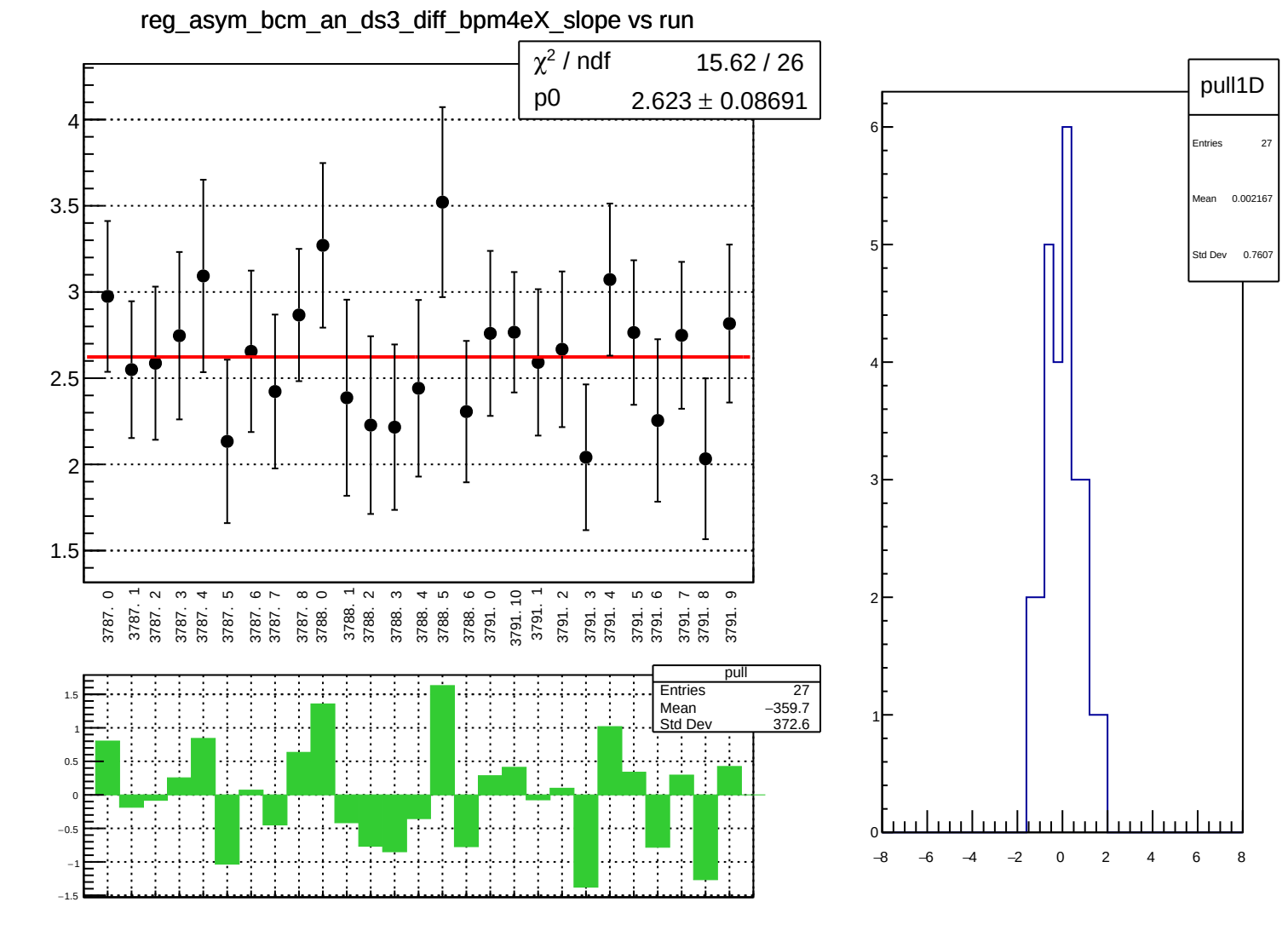

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.191 / 26
p0 −353.8 ± 1.547
−340
−345
−350
−355
−360
−365
−370
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −124.9
Std Dev 136.4
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 27
Mean −0.01126
Std Dev 0.3436
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

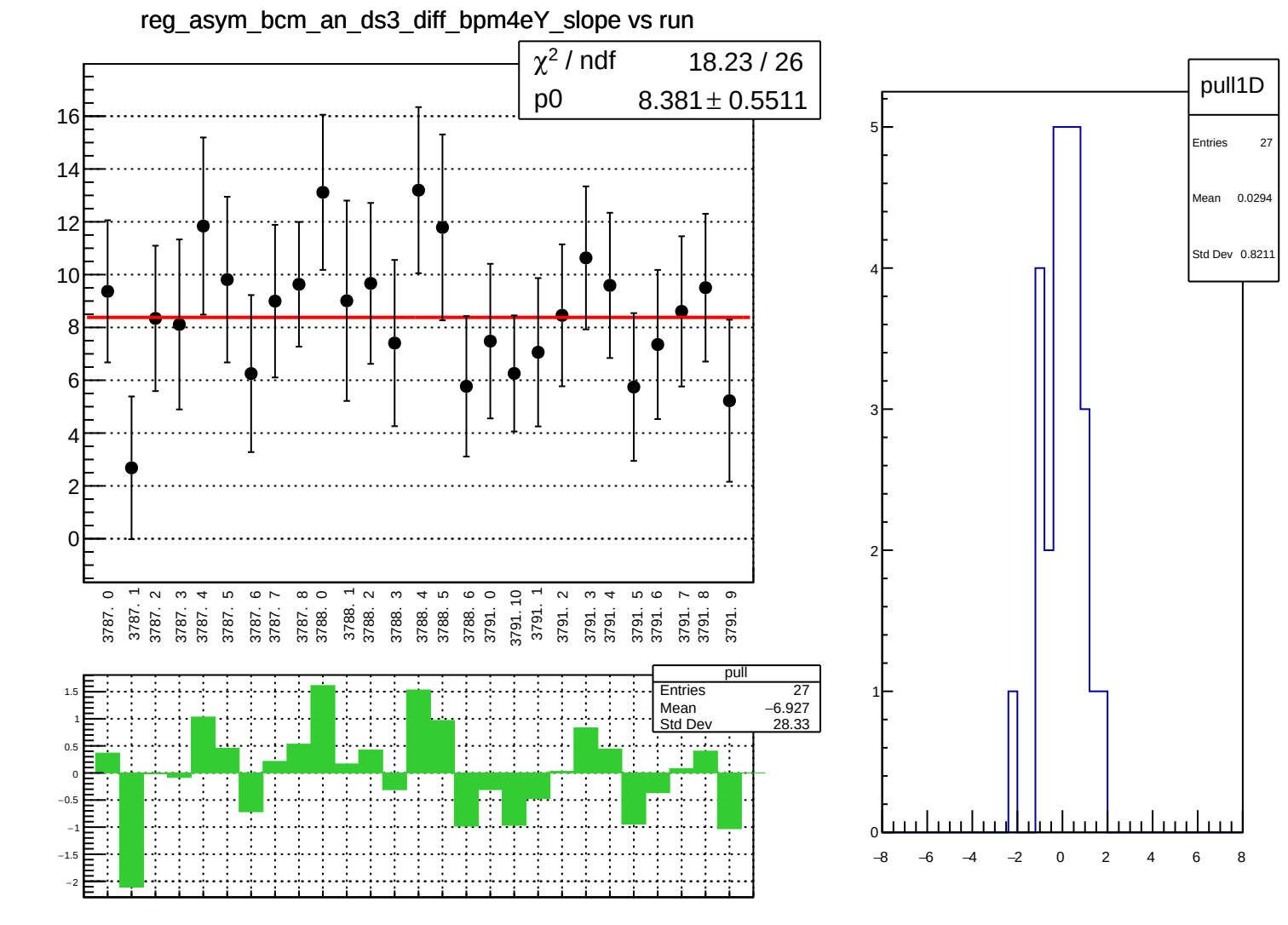

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.083 / 26
p0 141.5 ± 9.823
220
200
180
160
140
120
100
80
60
40
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −37.9
Std Dev 47.78
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 27
Mean −0.004902
Std Dev 0.2777
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

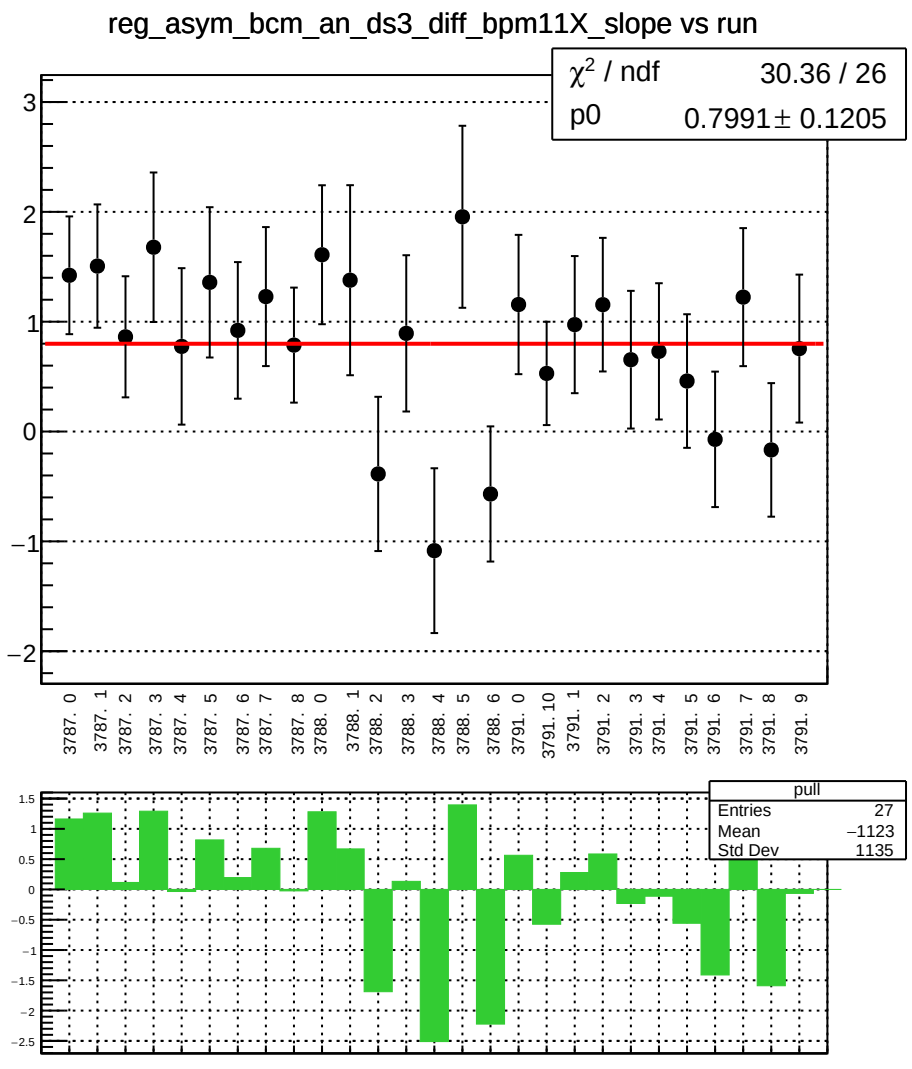

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 1.142 / 26
p0 1.908 ± 2.158
20
15
10
5
0
−5
−10
−15
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −527
Std Dev 542.7
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 27
Mean 0.001791
Std Dev 0.2057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

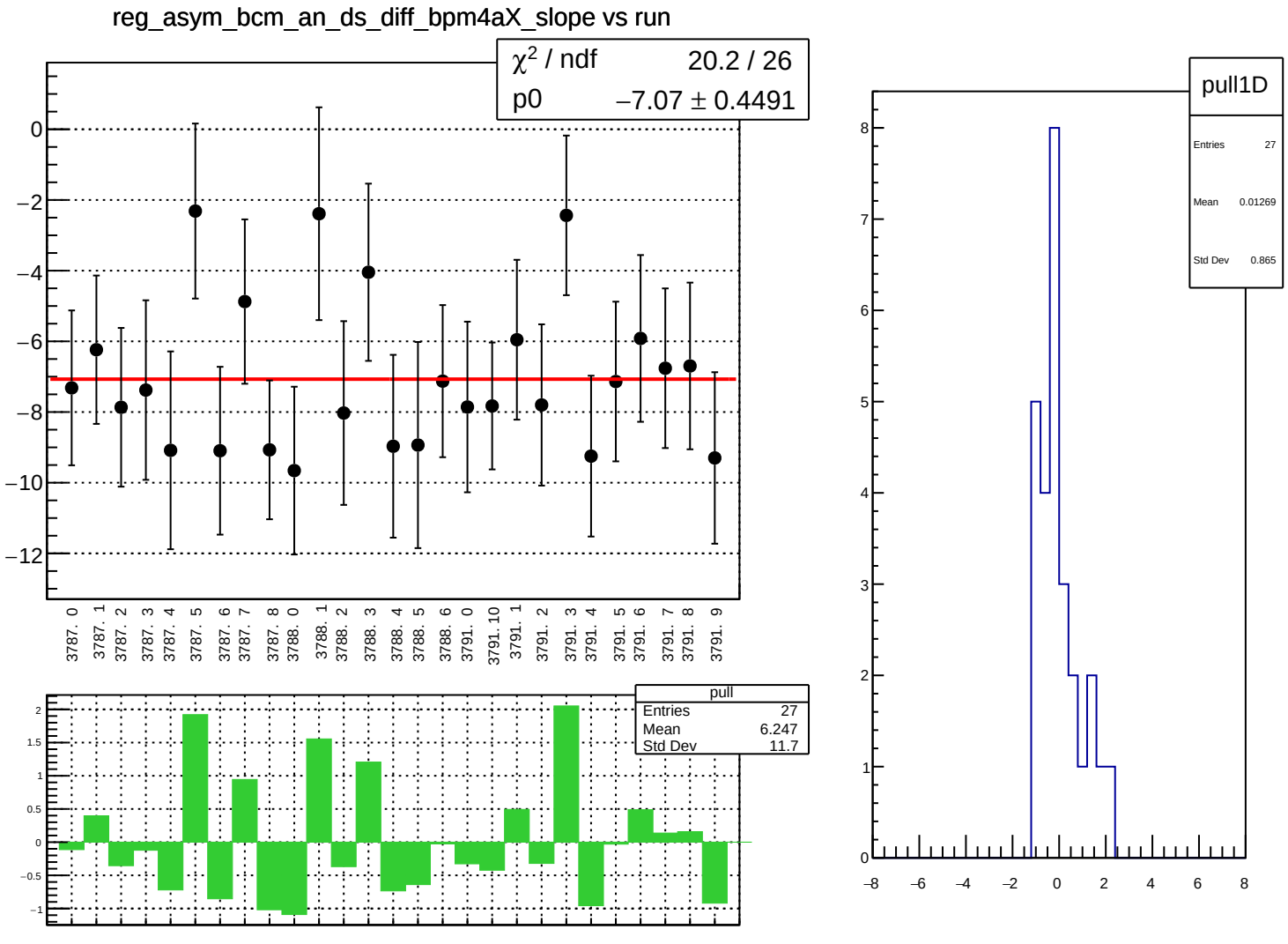

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 20.22 / 26
p0 −7.205 ± 0.457
0
−2
−4
−6
−8
−10
−12
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 3.213
Std Dev 12.97
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean 0.01296
Std Dev 0.8654
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

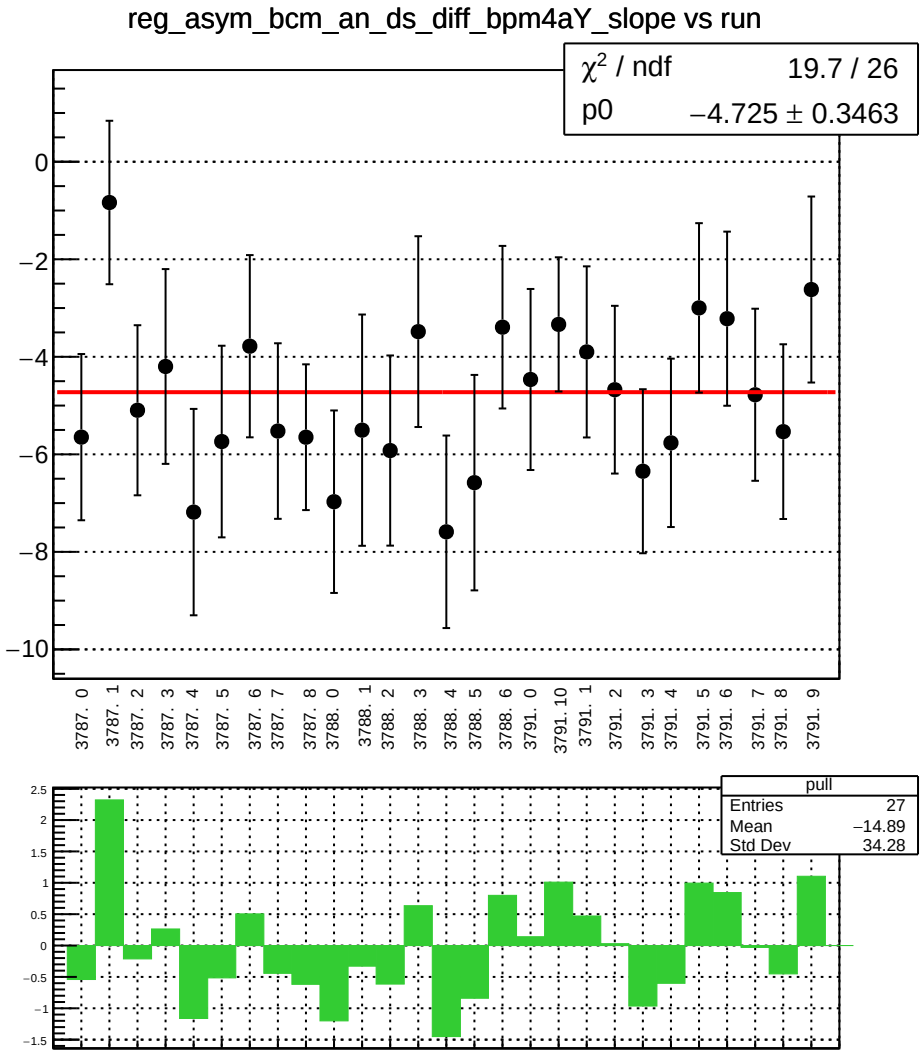

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 20.14 / 26
p0 −4.845 ± 0.3524
0
−2
−4
−6
−8
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −17.17
Std Dev 36.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean −0.03219
Std Dev 0.863
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

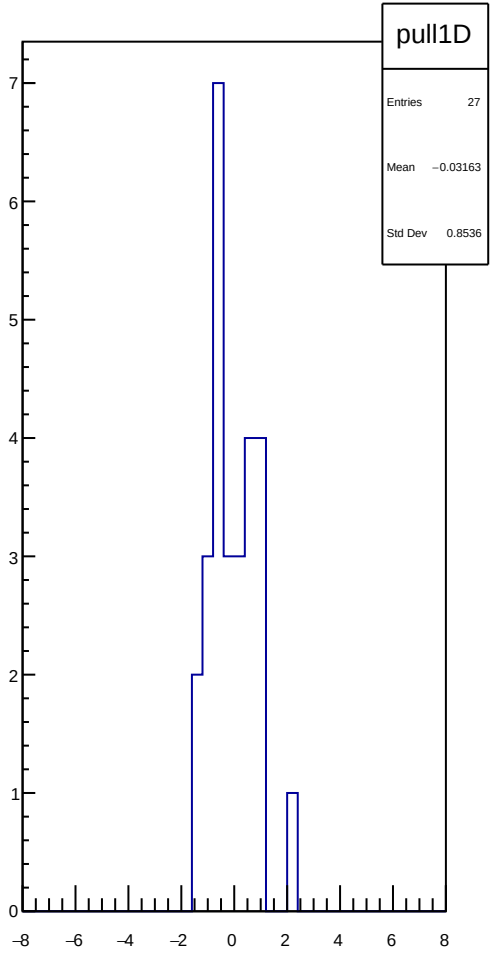

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 15.62 / 26
p0 2.623 ± 0.08691
4
3.5
3
2.5
2
1.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −359.7
Std Dev 372.6
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean 0.002167
Std Dev 0.7607
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

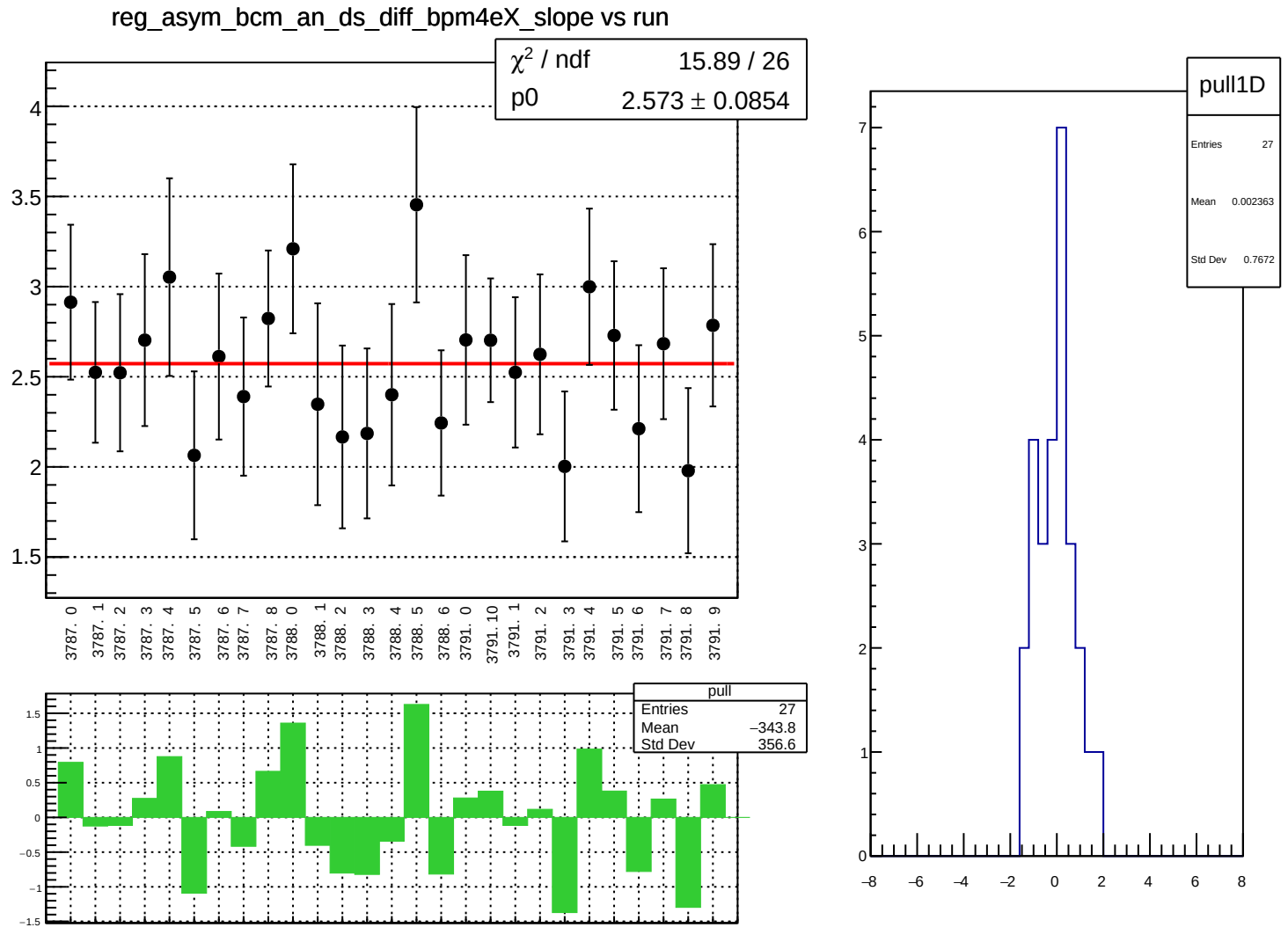

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 18.23 / 26
p0 8.381 ± 0.5511
pull
Entries 27
Mean −6.927
Std Dev 28.33
pull1D
Entries 27
Mean 0.0294
Std Dev 0.8211


reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 30.36 / 26
p0 0.7991 ± 0.1205
3
2
1
0
−1
−2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −1123
Std Dev 1135
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 27
Mean 0.003024
Std Dev 1.06
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 20.2 / 26
p0 −7.07 ± 0.4491
0
−2
−4
−6
−8
−10
−12
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 6.247
Std Dev 11.7
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean 0.01269
Std Dev 0.865
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 19.7 / 26
p0 −4.725 ± 0.3463
0
−2
−4
−6
−8
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −14.89
Std Dev 34.28
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 27
Mean −0.03163
Std Dev 0.8536
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 15.89 / 26
p0 2.573 ± 0.0854
4
3.5
3
2.5
2
1.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −343.8
Std Dev 356.6
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean 0.002363
Std Dev 0.7672
7
6
5
4
3
2
1
0
−8
−6
−4
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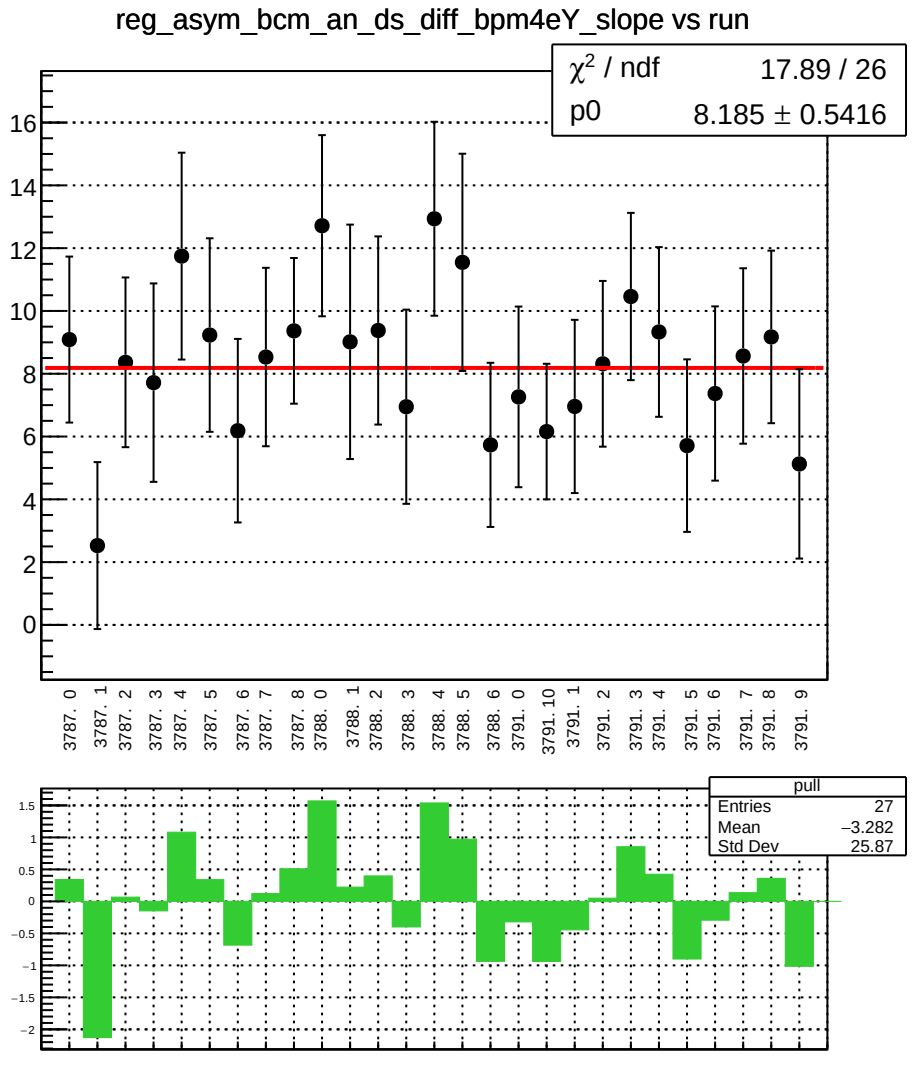
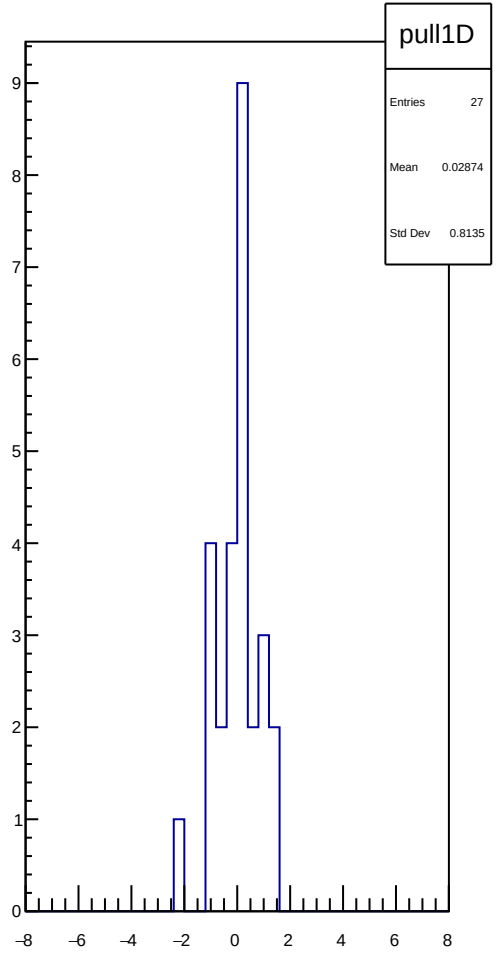
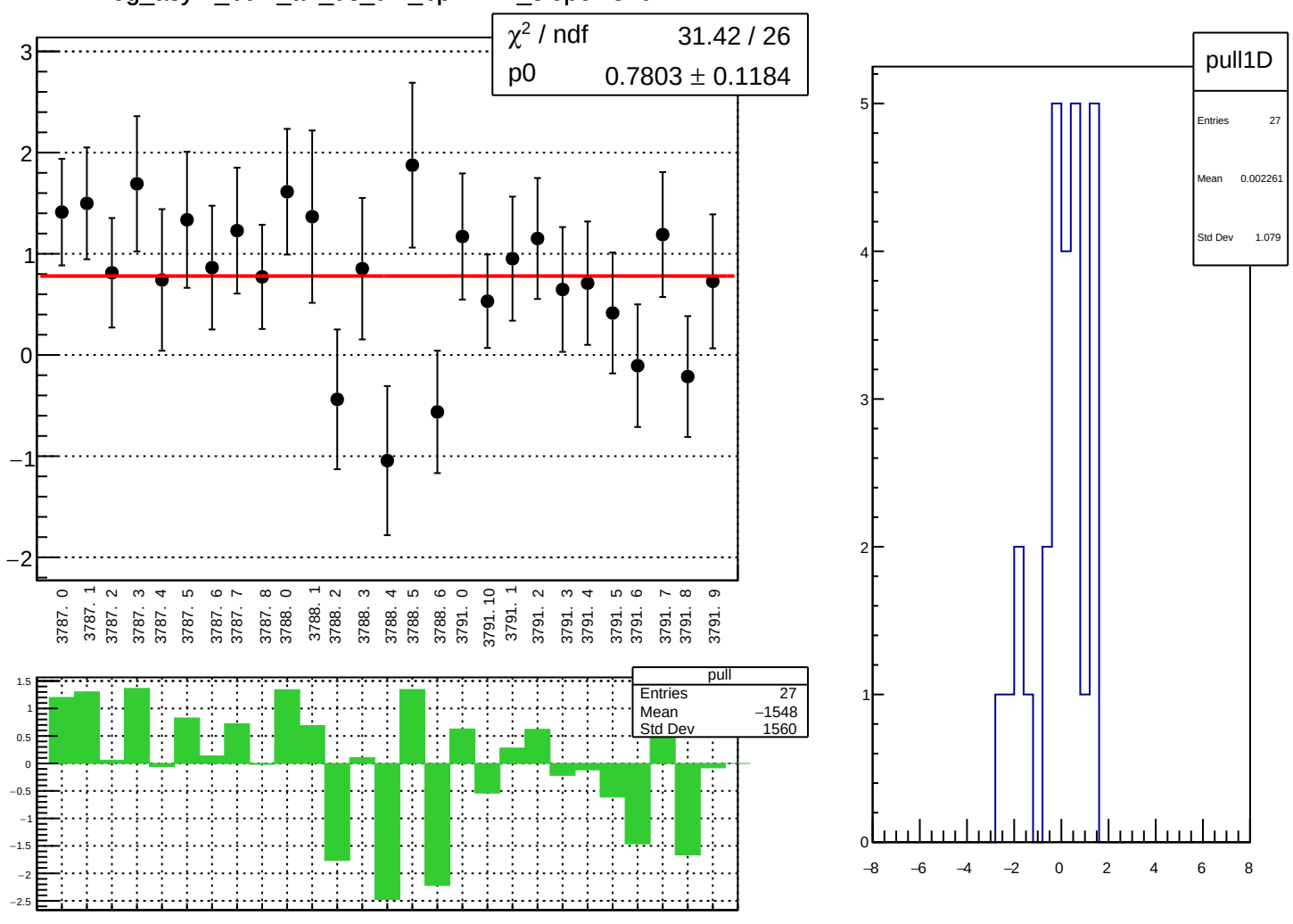
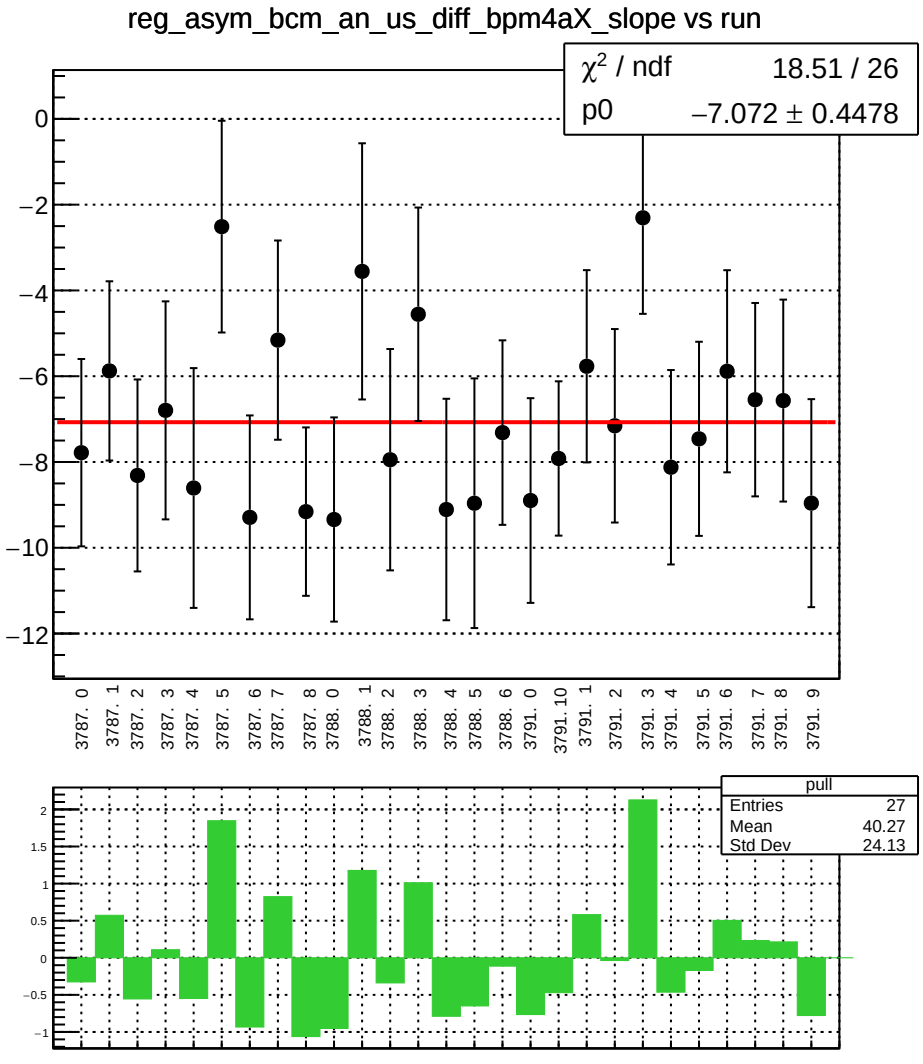
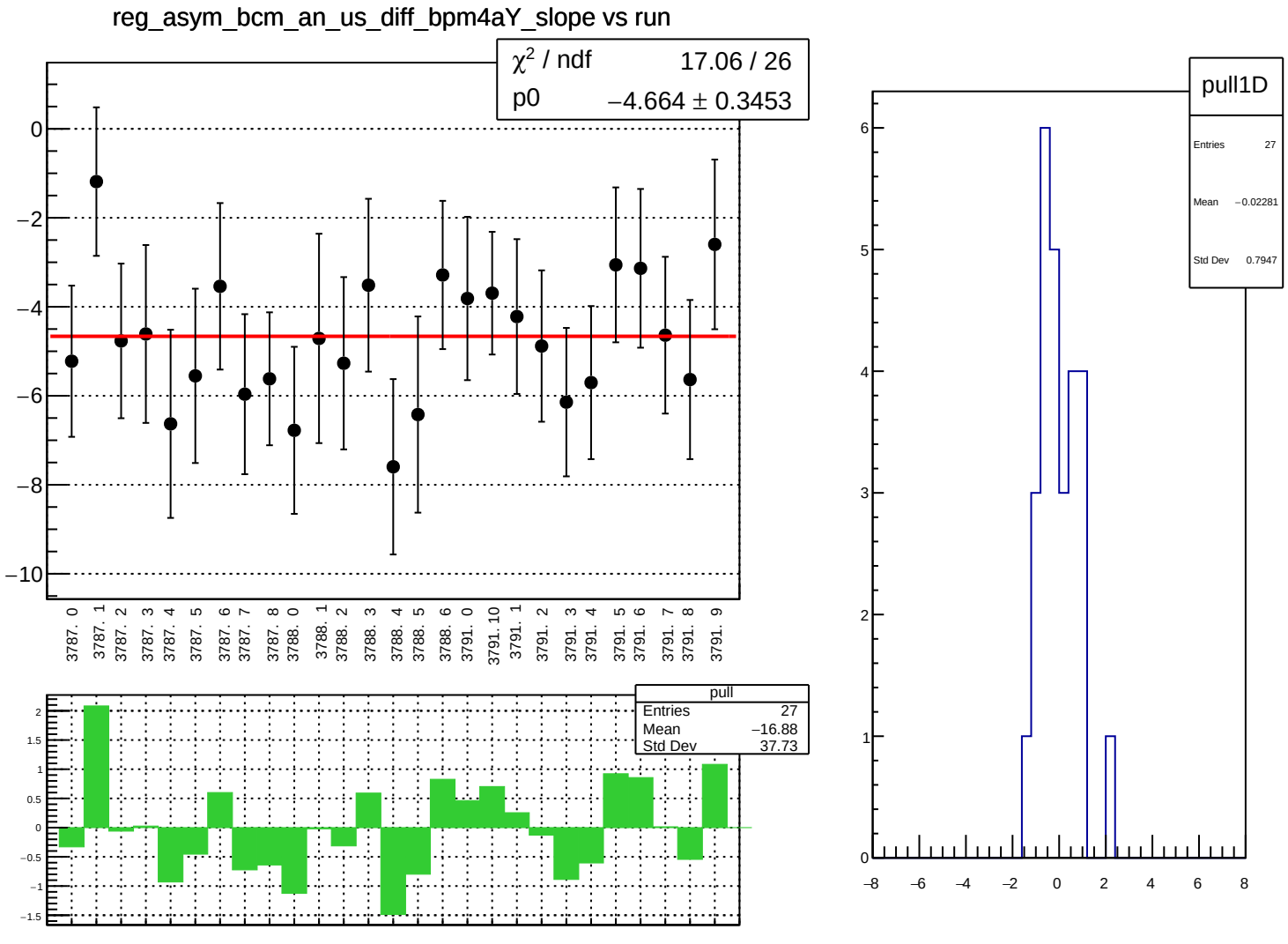
0
2
4
6
8

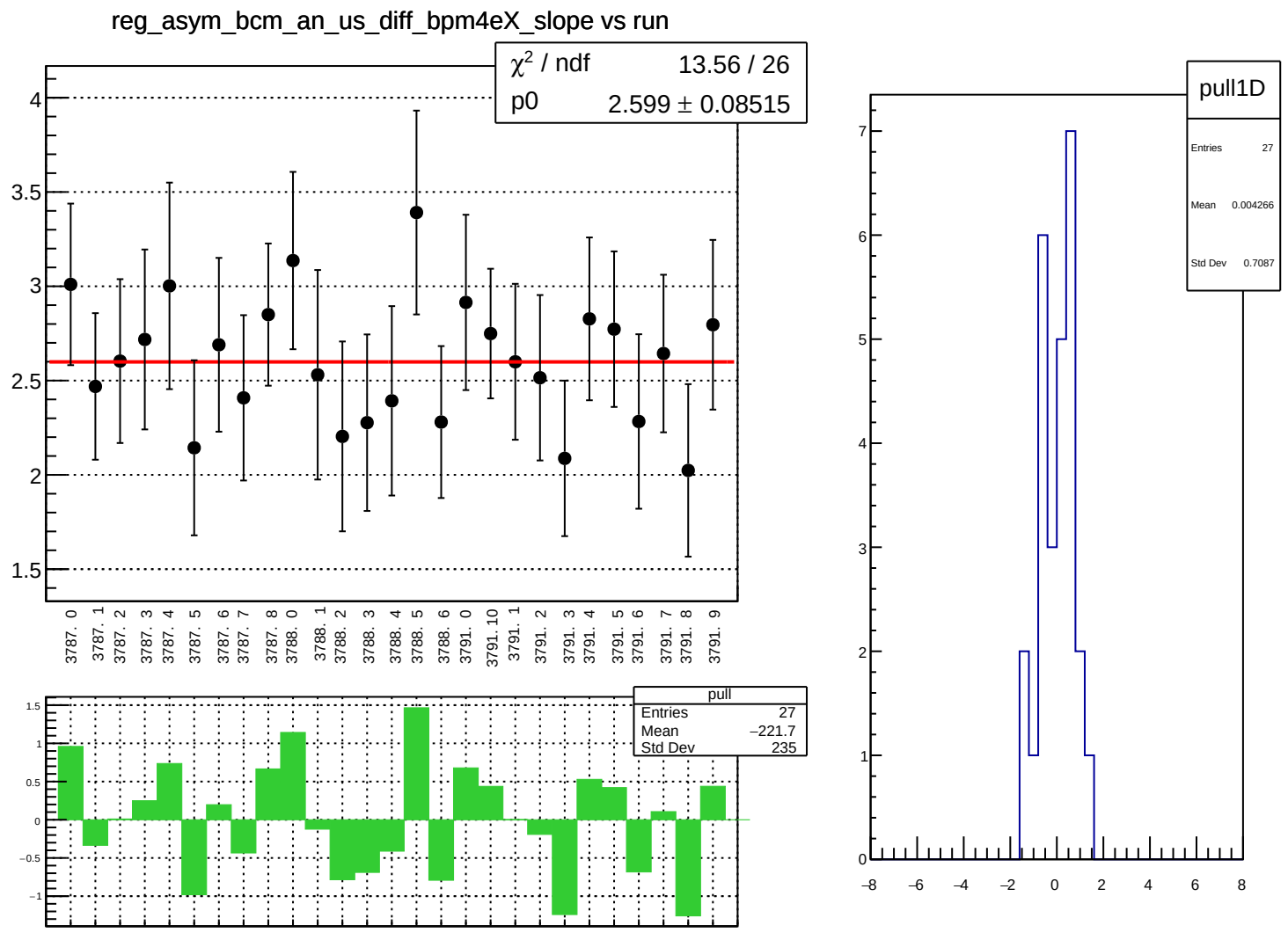

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 17.89 / 26
p0 8.185 ± 0.5416
pull
Entries 27
Mean −3.282
Std Dev 25.87

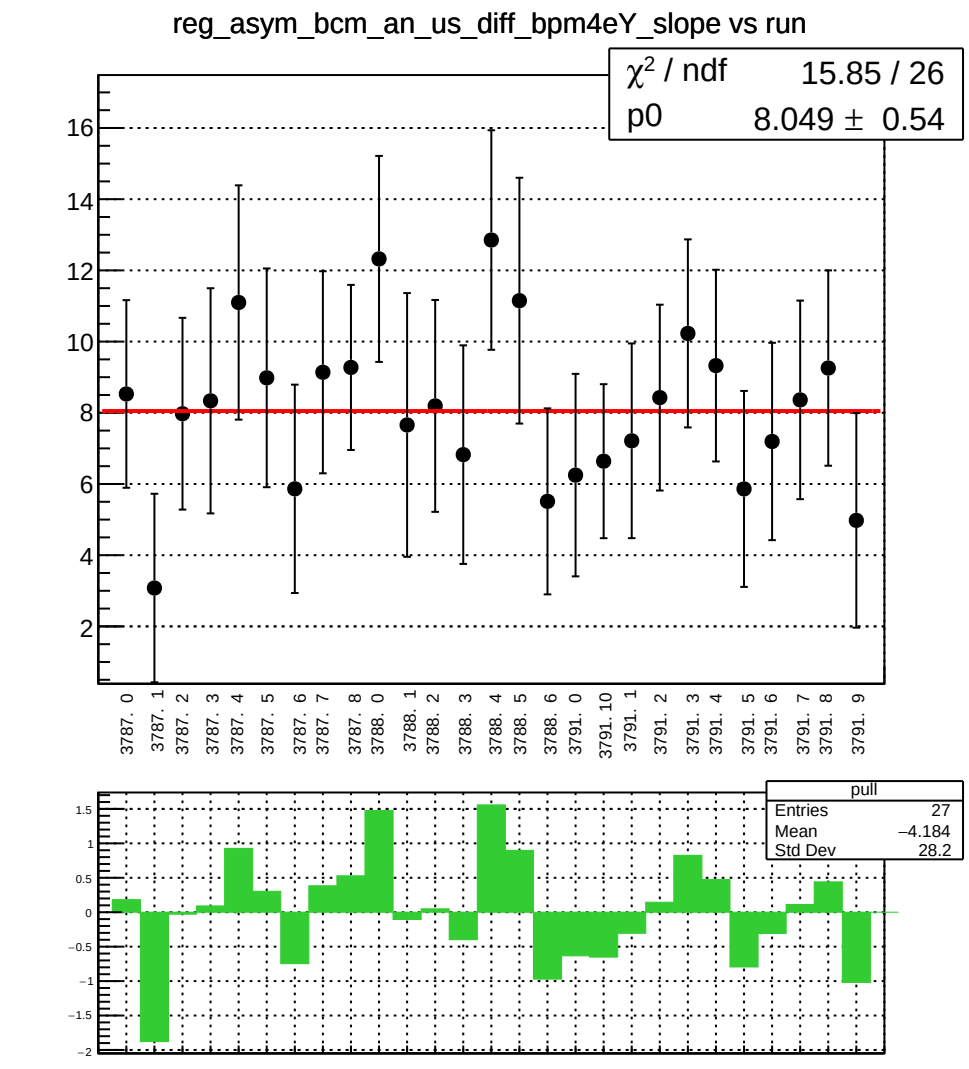

pull1D
Entries 27
Mean 0.02874
Std Dev 0.8135

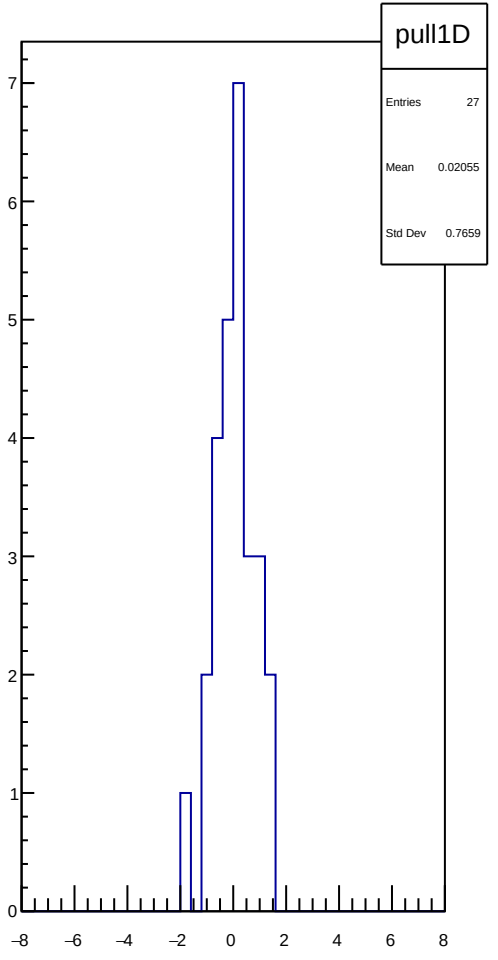

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 31.42 / 26
p0 0.7803 ± 0.1184
pull
Entries 27
Mean −1548
Std Dev 1560
pull1D
Entries 27
Mean 0.002261
Std Dev 1.079

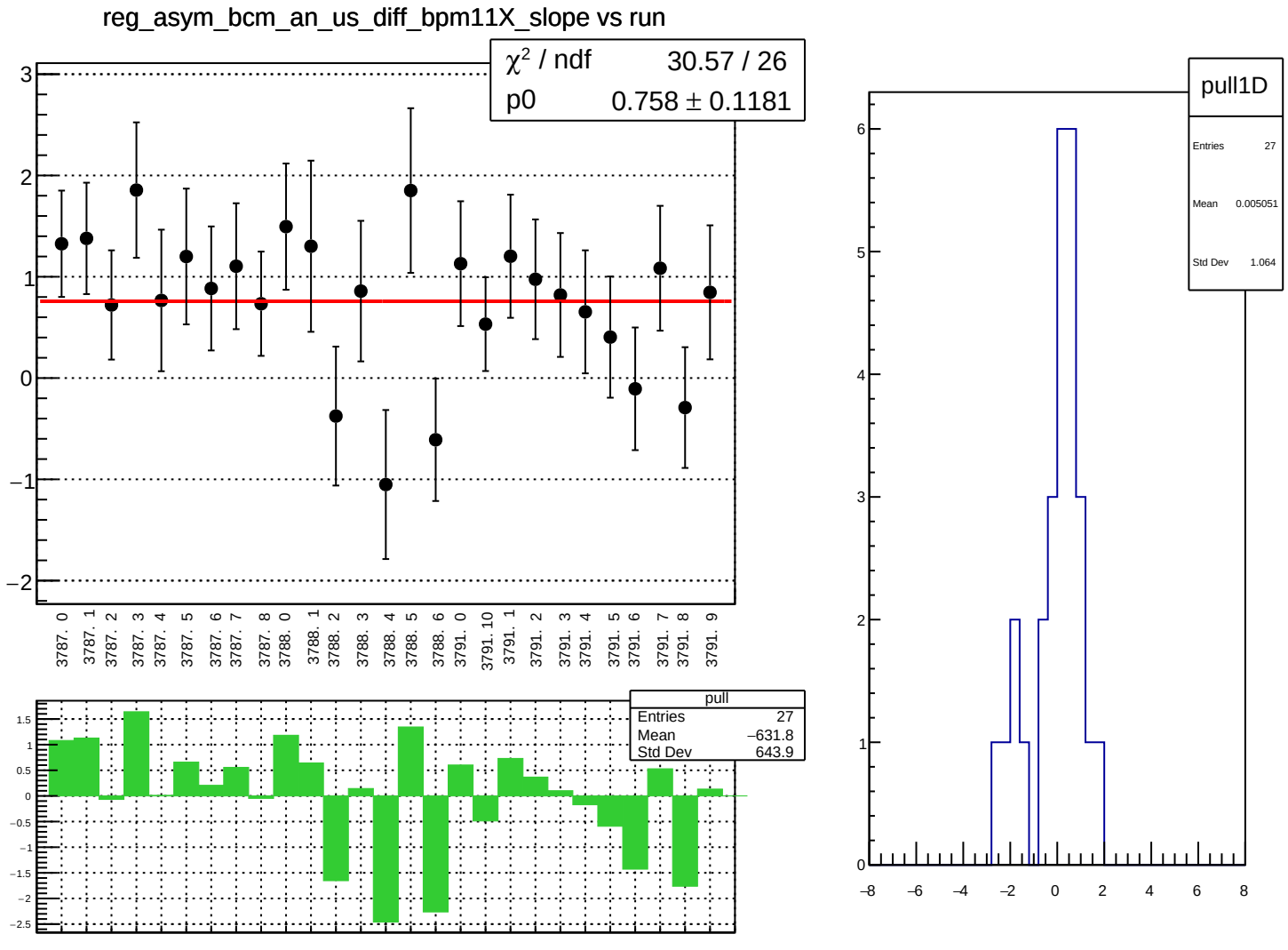

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 18.51 / 26
p0 −7.072 ± 0.4478
0
−2
−4
−6
−8
−10
−12
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 40.27
Std Dev 24.13
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean 0.009299
Std Dev 0.828
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

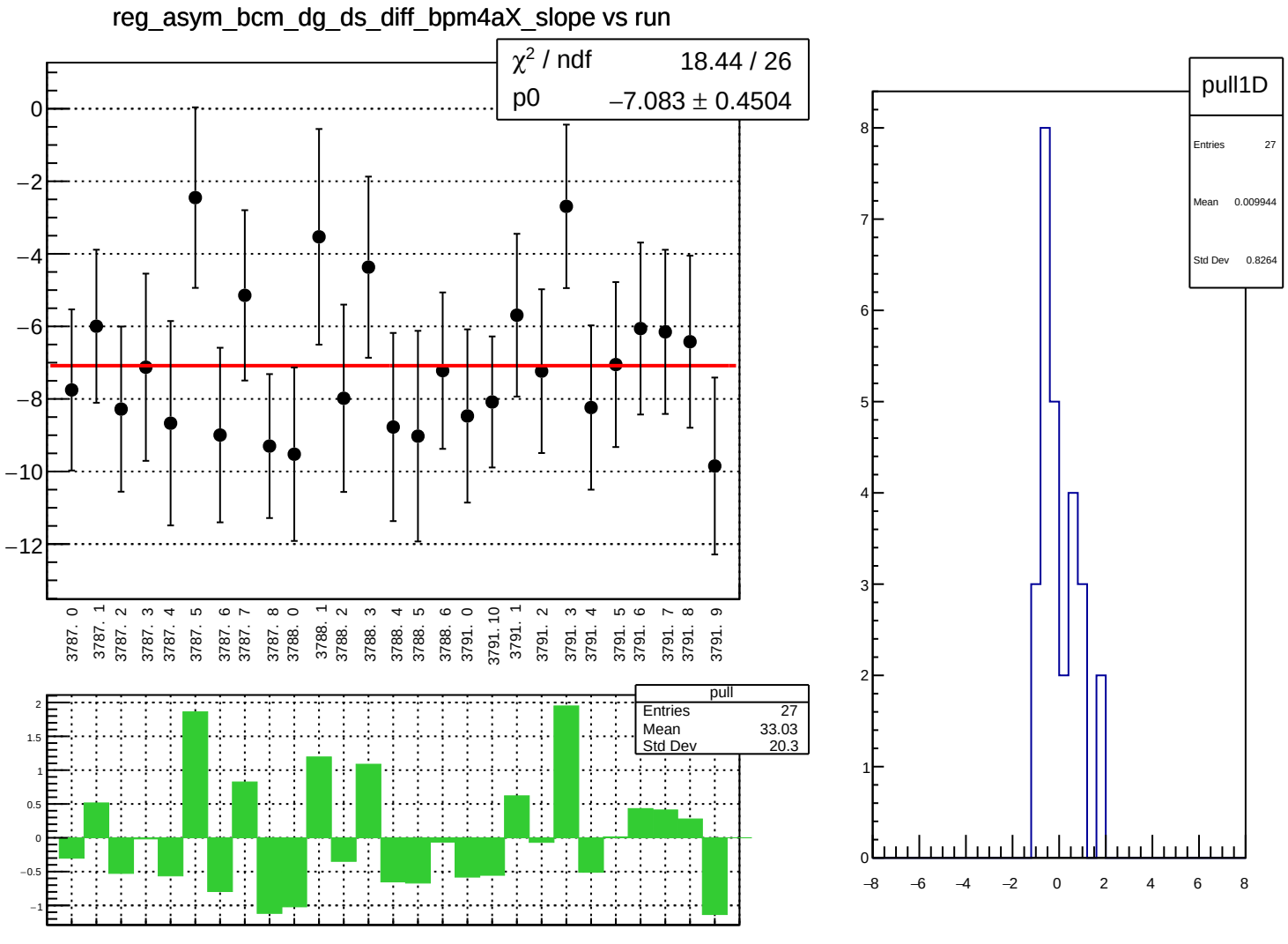

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 17.06 / 26
p0 −4.664 ± 0.3453
0
−2
−4
−6
−8
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −16.88
Std Dev 37.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean −0.02281
Std Dev 0.7947
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

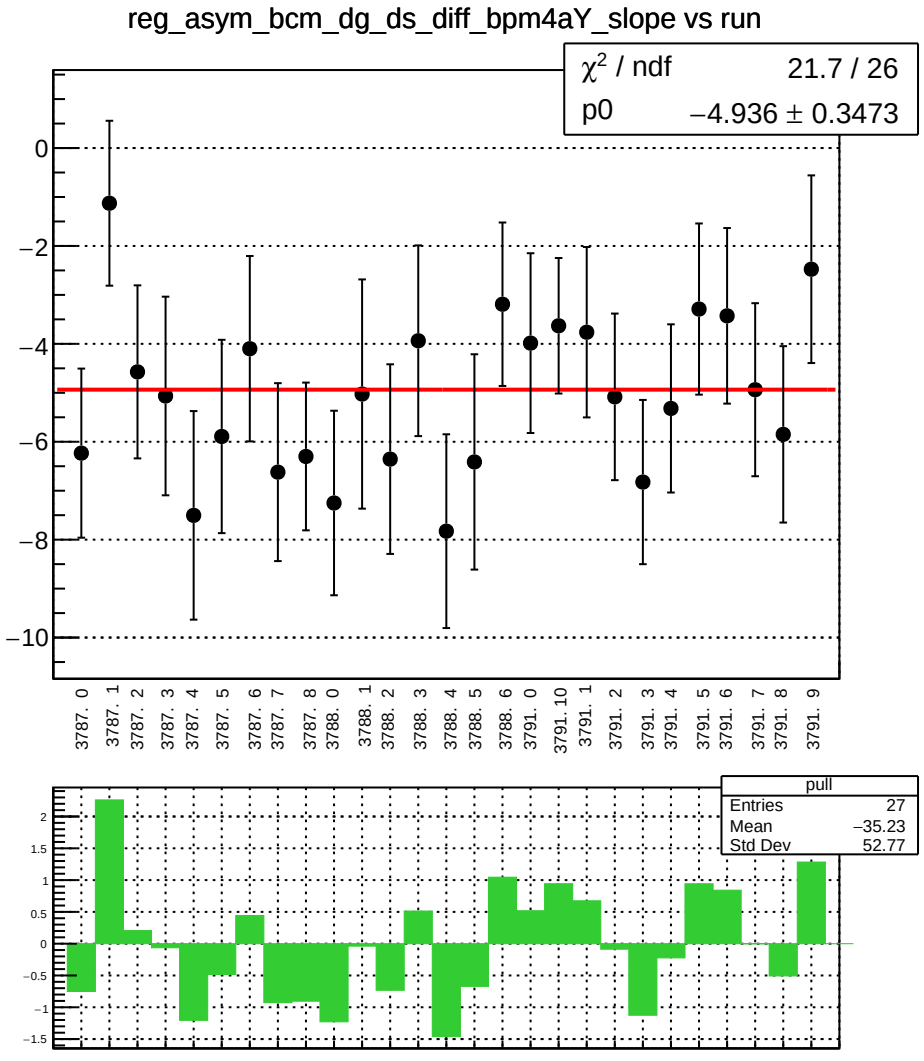

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 13.56 / 26
p0 2.599 ± 0.08515
4
3.5
3
2.5
2
1.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −221.7
Std Dev 235
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean 0.004266
Std Dev 0.7087
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

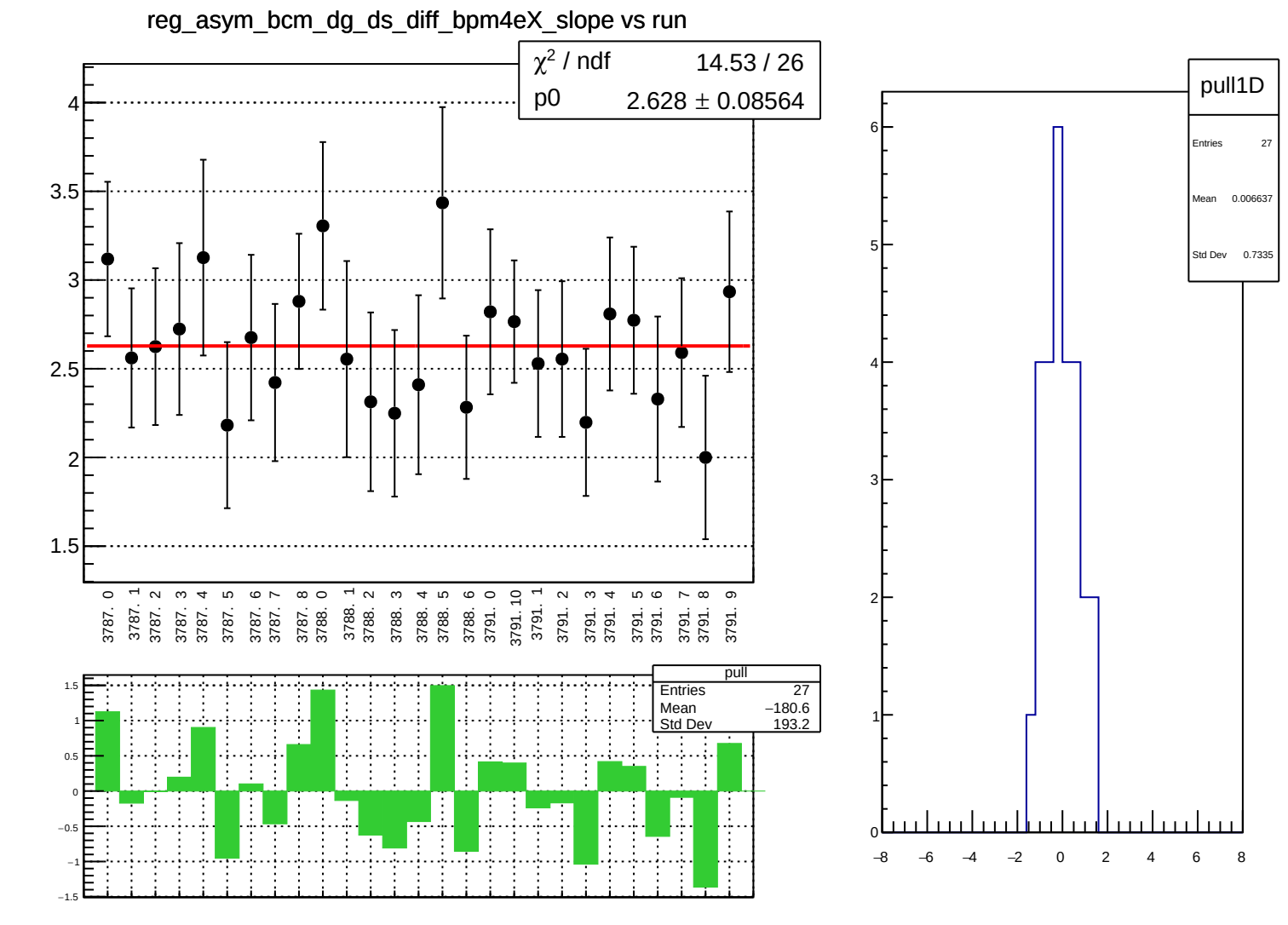

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 15.85 / 26
p0 8.049 ± 0.54
16
14
12
10
8
6
4
2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −4.184
Std Dev 28.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

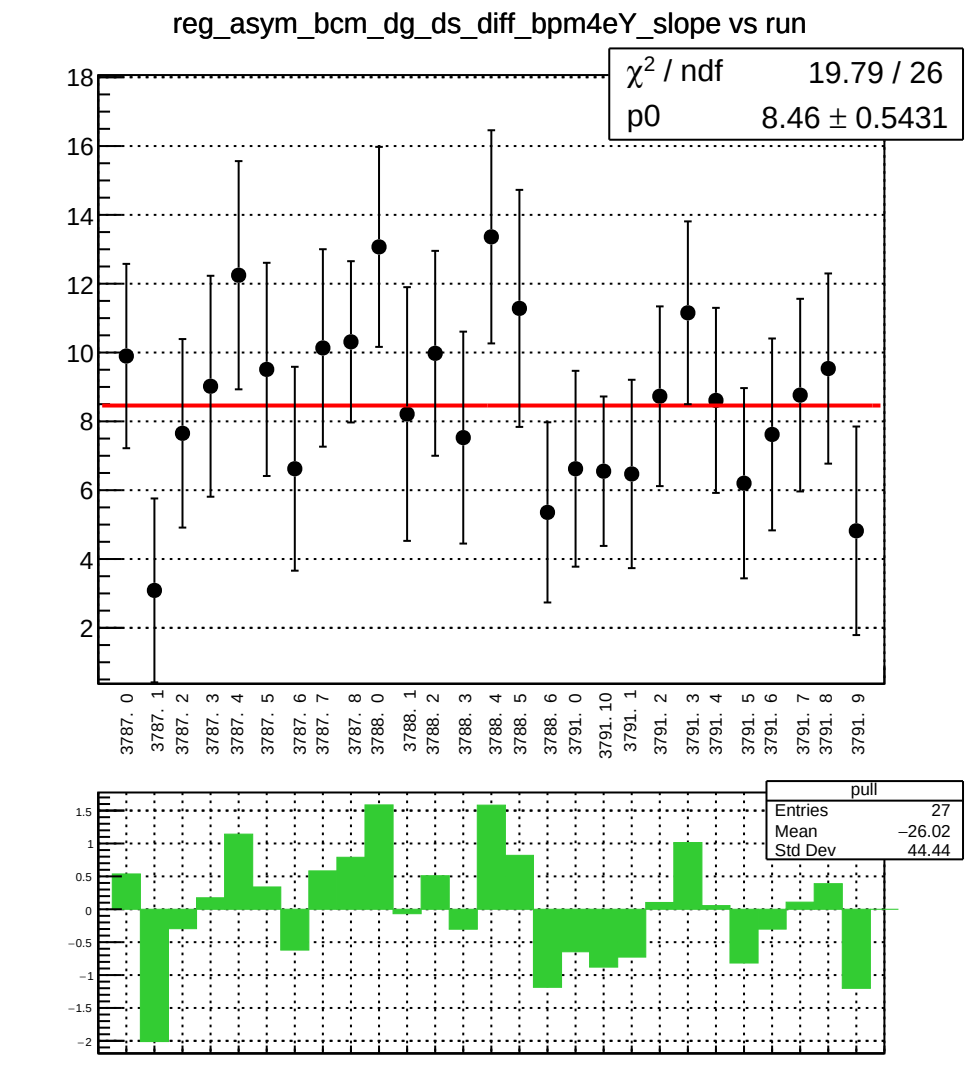

pull1D
Entries 27
Mean 0.02055
Std Dev 0.7659
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

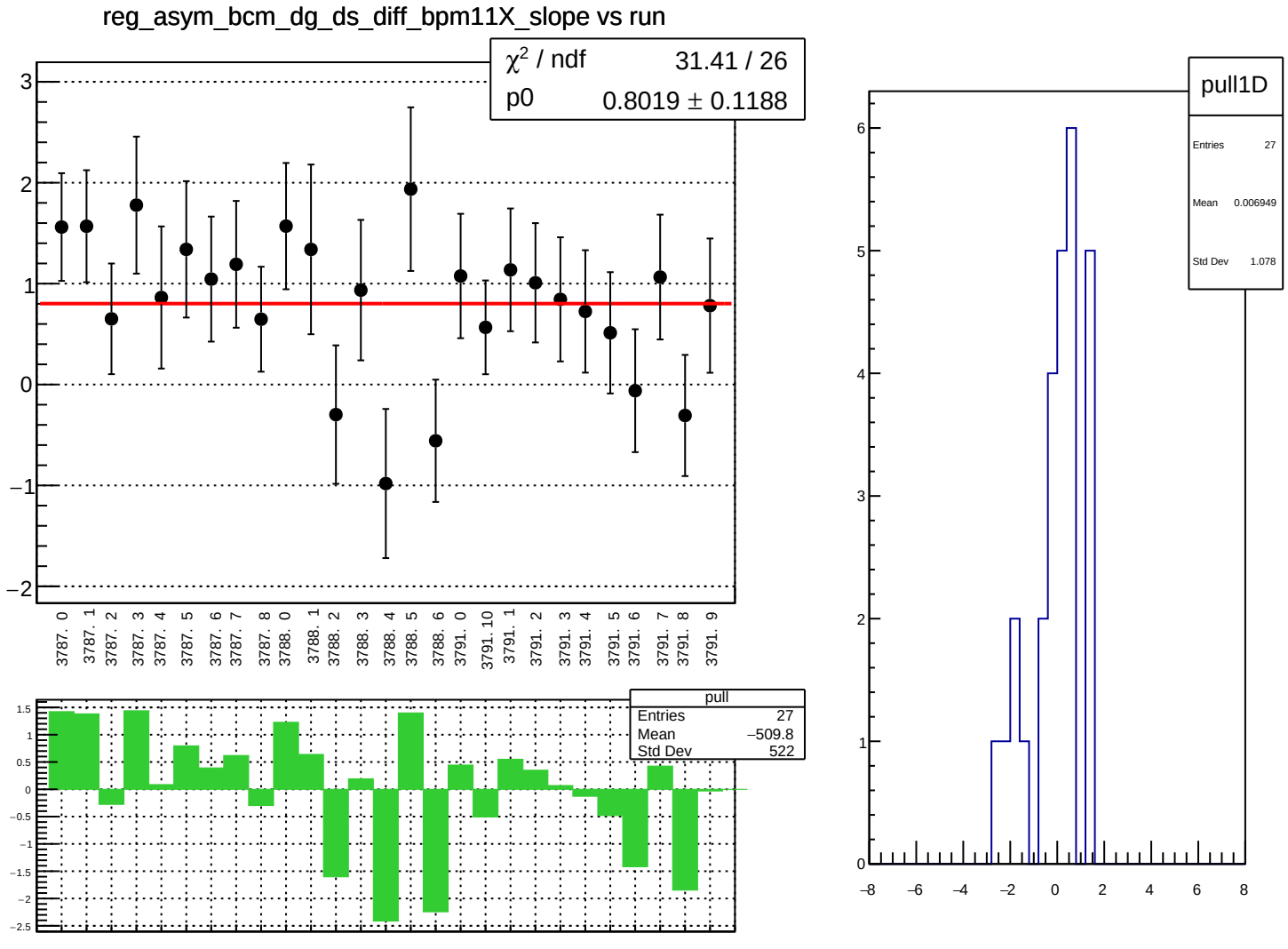

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 30.57 / 26
p0 0.758 ± 0.1181
3
2
1
0
−1
−2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −631.8
Std Dev 643.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 27
Mean 0.005051
Std Dev 1.064
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

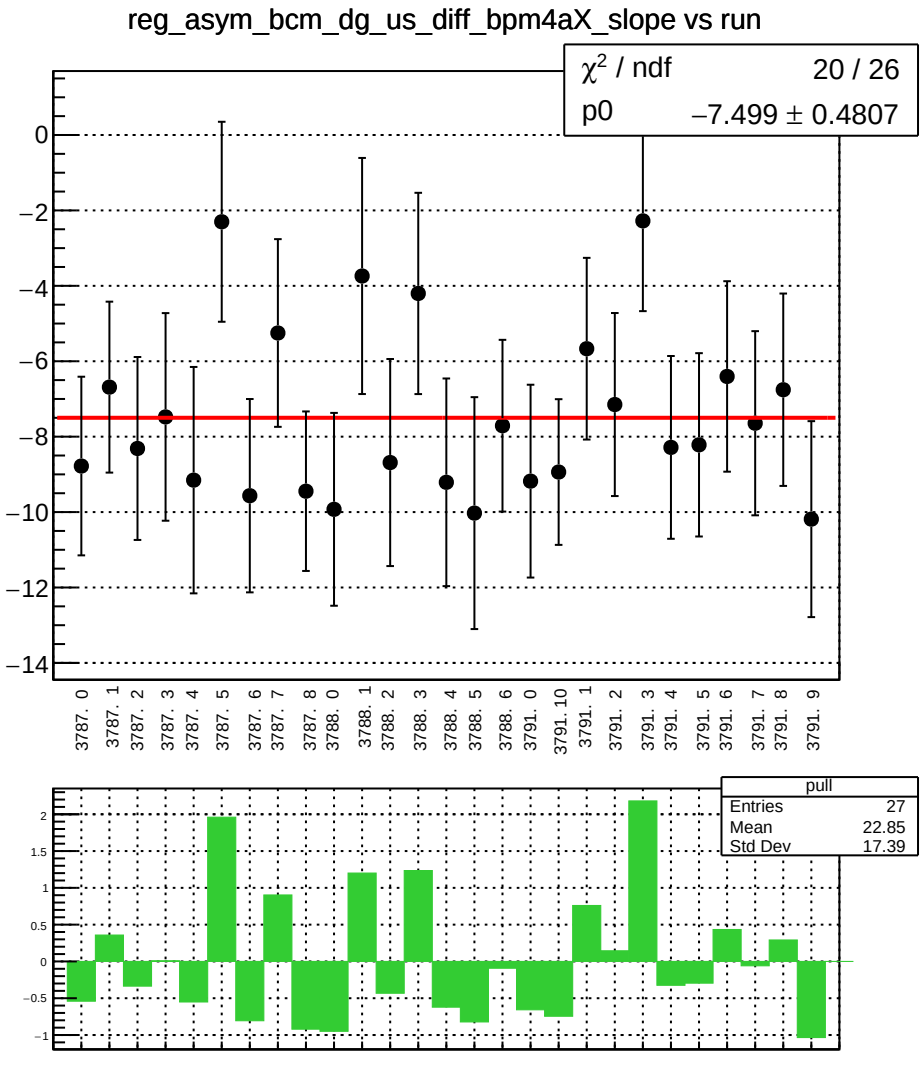

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 18.44 / 26
p0 −7.083 ± 0.4504
0
−2
−4
−6
−8
−10
−12
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 33.03
Std Dev 20.3
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean 0.009944
Std Dev 0.8264
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

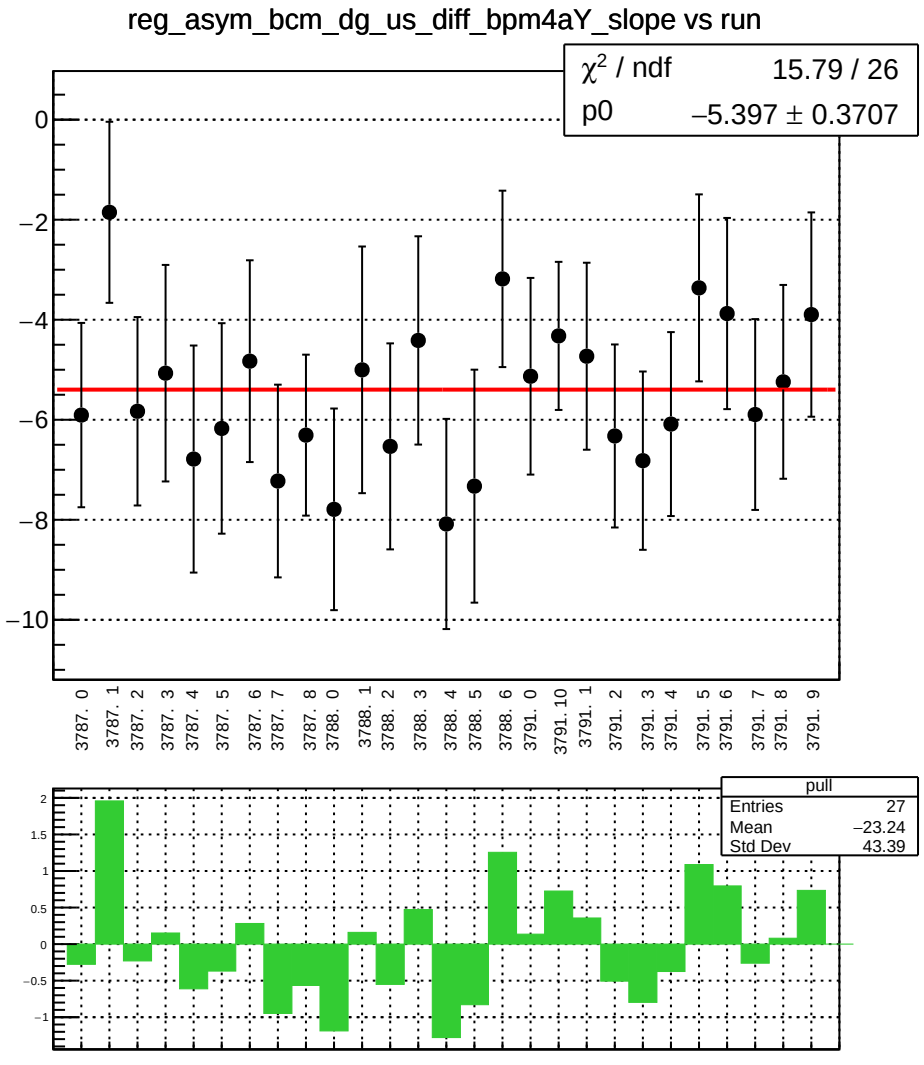

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 21.7 / 26
p0 −4.936 ± 0.3473
0
−2
−4
−6
−8
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −35.23
Std Dev 52.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean −0.02745
Std Dev 0.8961
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

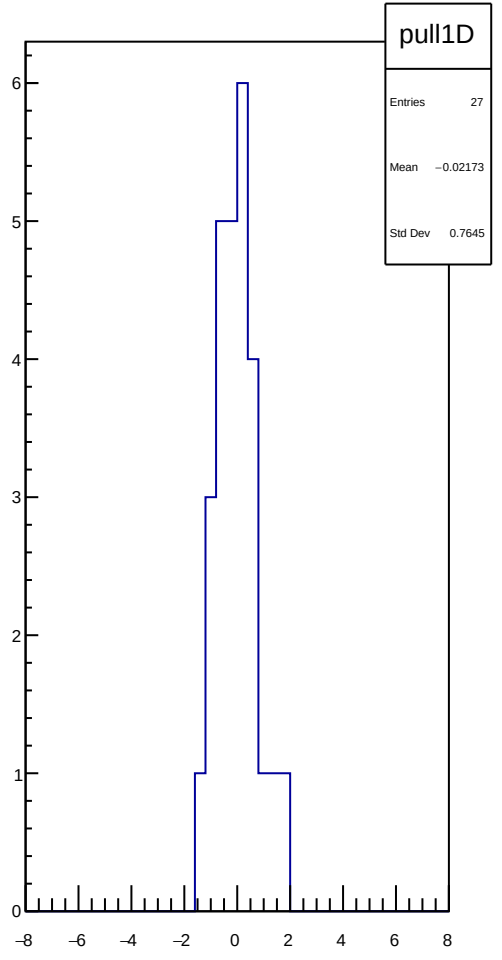

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 14.53 / 26
p0 2.628 ± 0.08564
4
3.5
3
2.5
2
1.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −180.6
Std Dev 193.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean 0.006637
Std Dev 0.7335
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

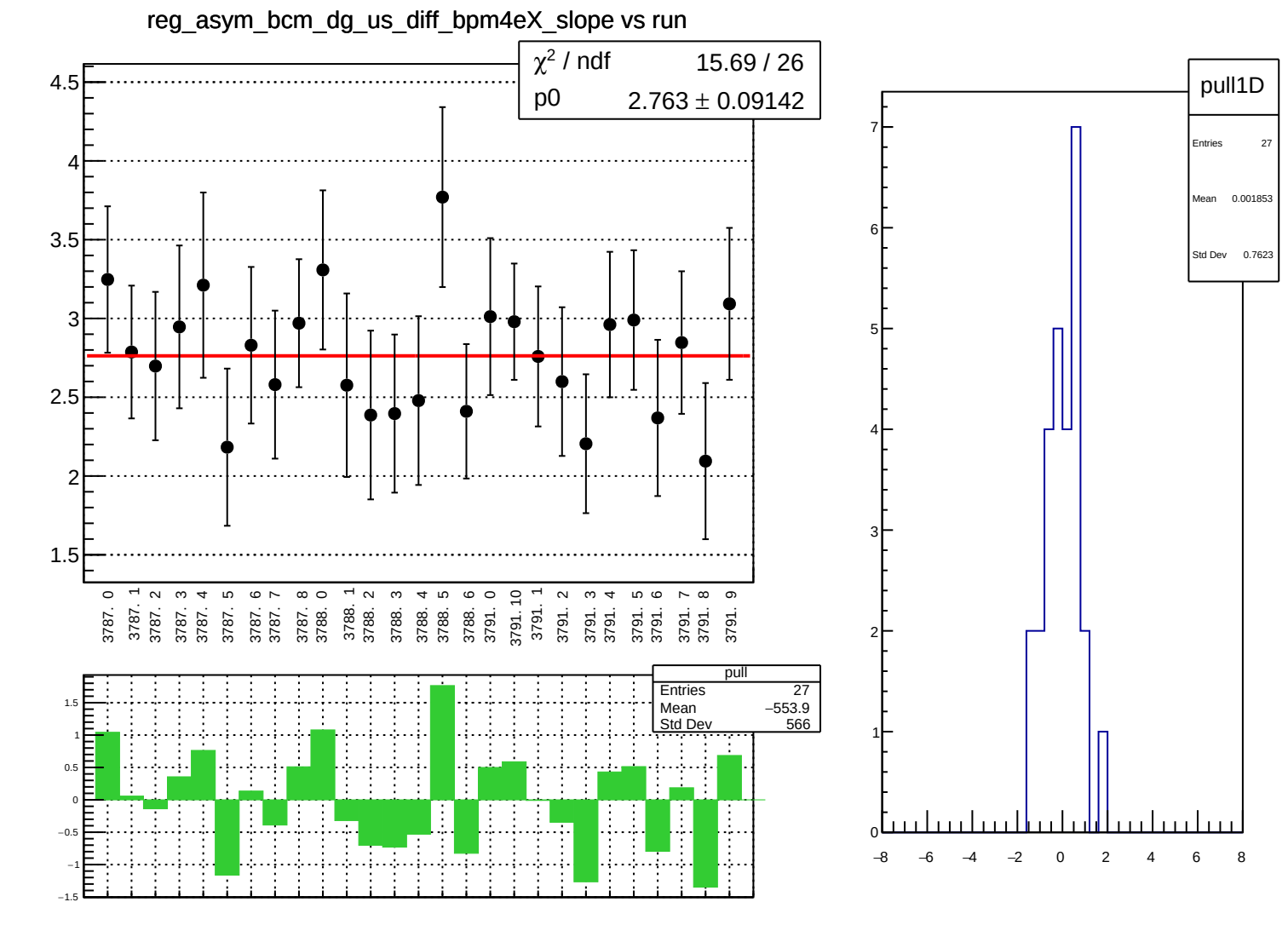

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 19.79 / 26
p0 8.46 ± 0.5431
pull
Entries 27
Mean −26.02
Std Dev 44.44
pull1D
Entries 27
Mean 0.02522
Std Dev 0.8559

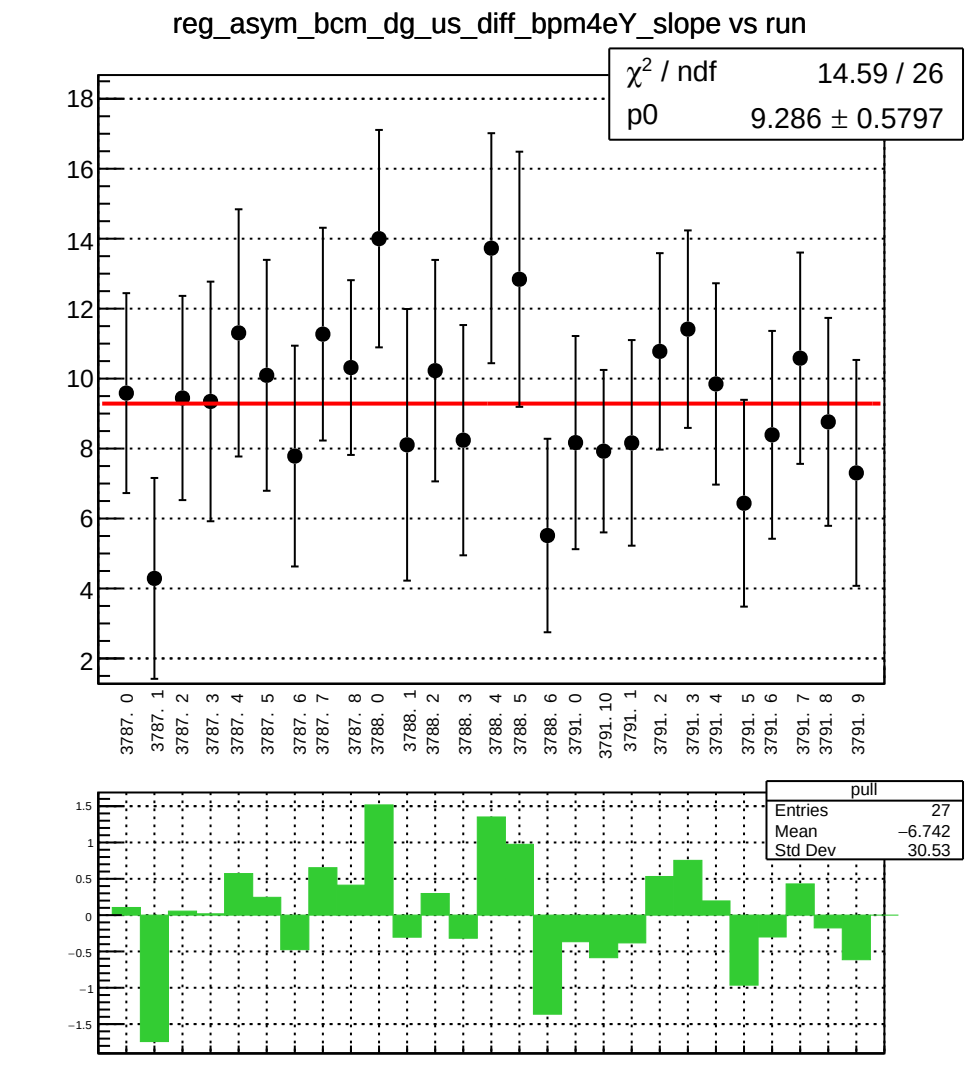

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 31.41 / 26
p0 0.8019 ± 0.1188
3
2
1
0
−1
−2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −509.8
Std Dev 522
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 27
Mean 0.006949
Std Dev 1.078
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 20 / 26
p0 −7.499 ± 0.4807
0
−2
−4
−6
−8
−10
−12
−14
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 22.85
Std Dev 17.39
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 27
Mean 0.0108
Std Dev 0.8607
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 15.79 / 26
p0 −5.397 ± 0.3707
0
−2
−4
−6
−8
−10
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −23.24
Std Dev 43.39
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 27
Mean −0.02173
Std Dev 0.7645
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 15.69 / 26
p0 2.763 ± 0.09142
4.5
4
3.5
3
2.5
2
1.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −553.9
Std Dev 566
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean 0.001853
Std Dev 0.7623
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 14.59 / 26
p0 9.286 ± 0.5797
18
16
14
12
10
8
6
4
2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
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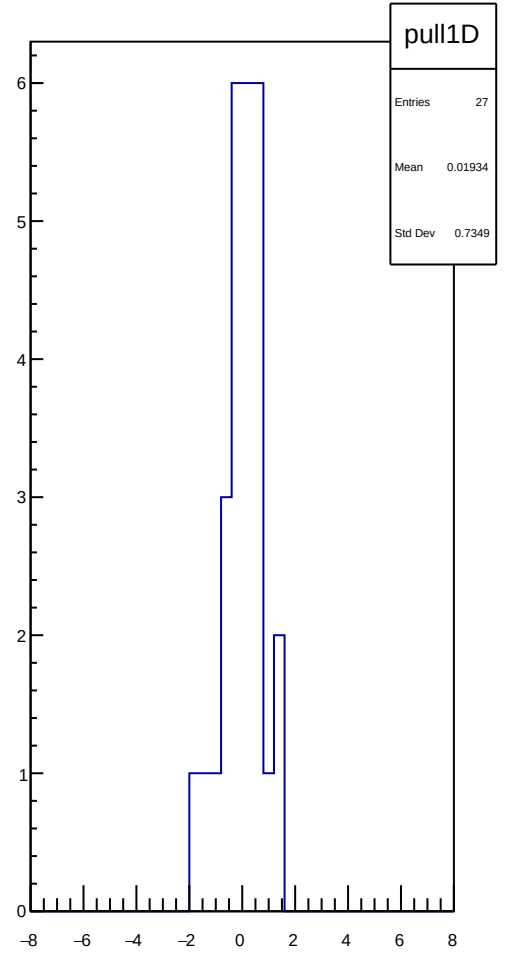
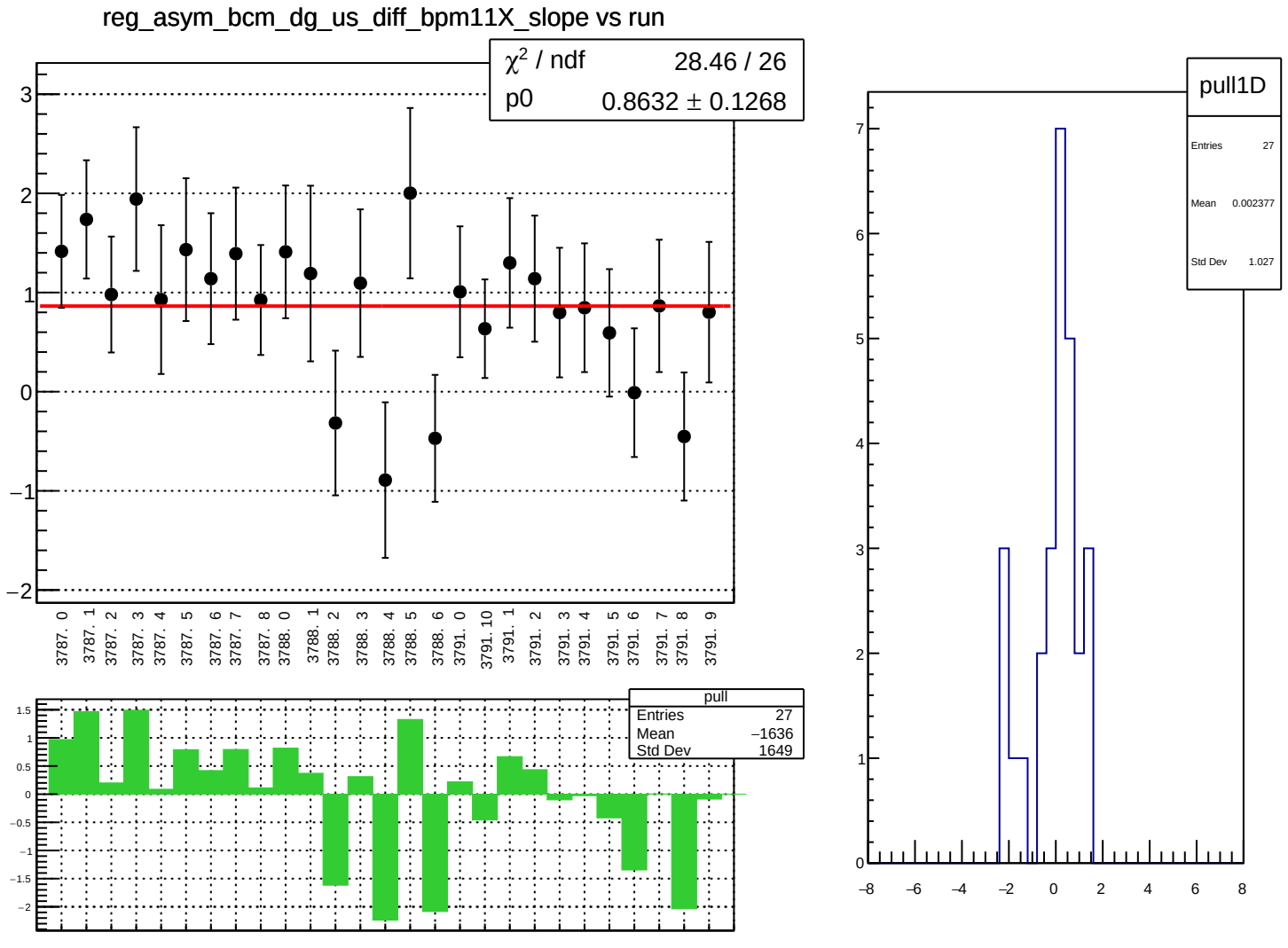
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −6.742
Std Dev 30.53
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 27
Mean 0.01934
Std Dev 0.7349
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 28.46 / 26
p0 0.8632 ± 0.1268
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
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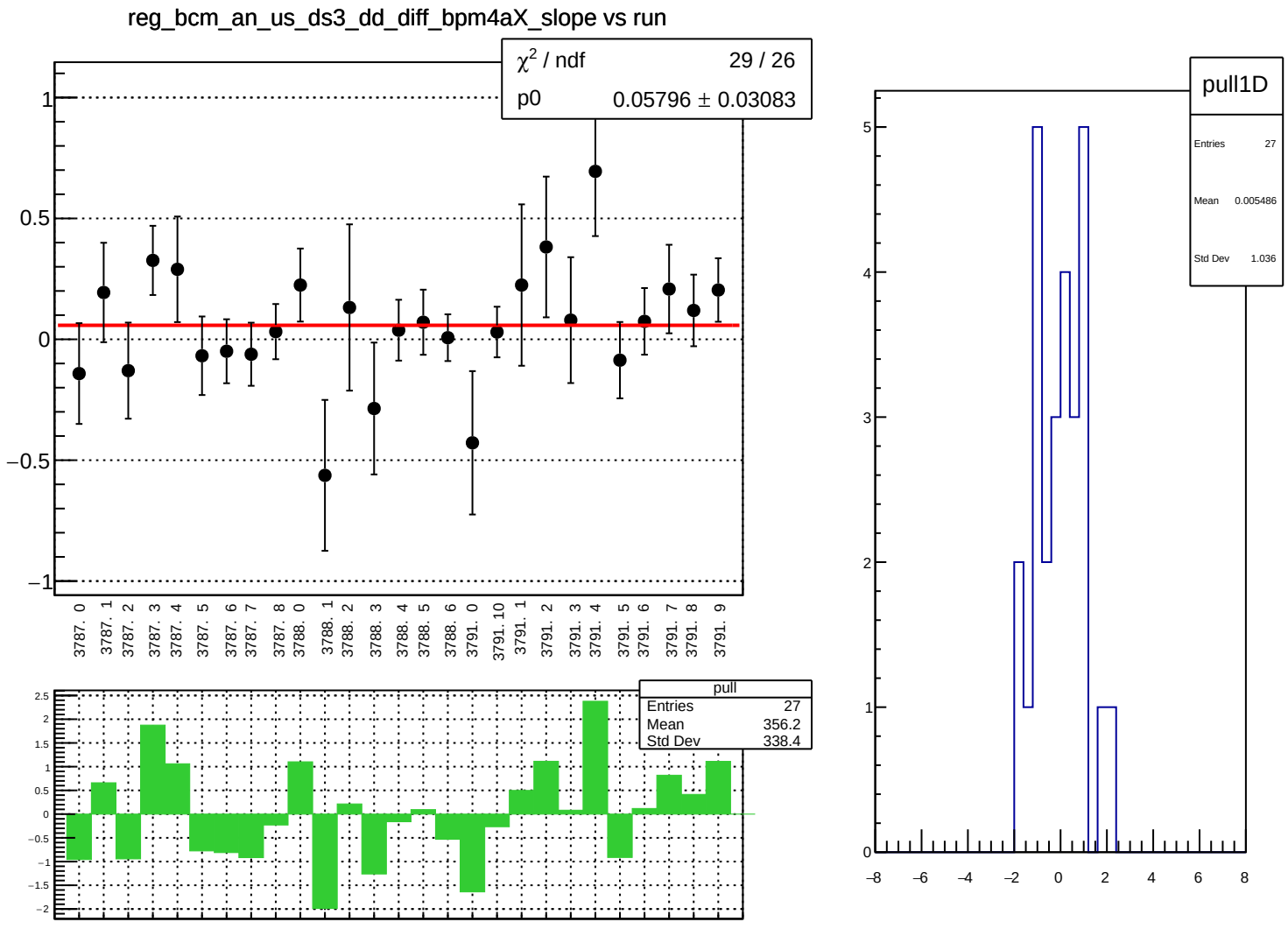
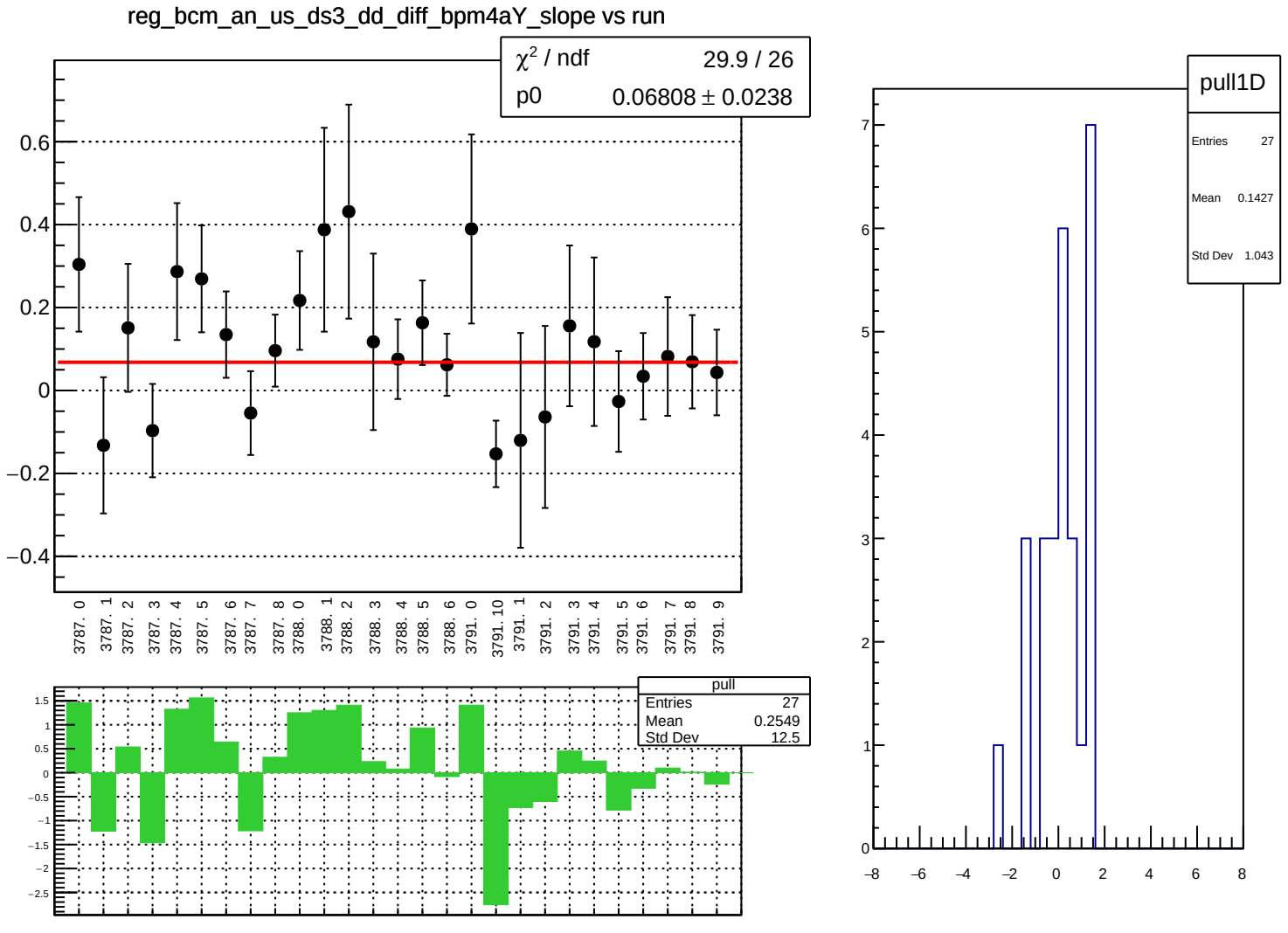
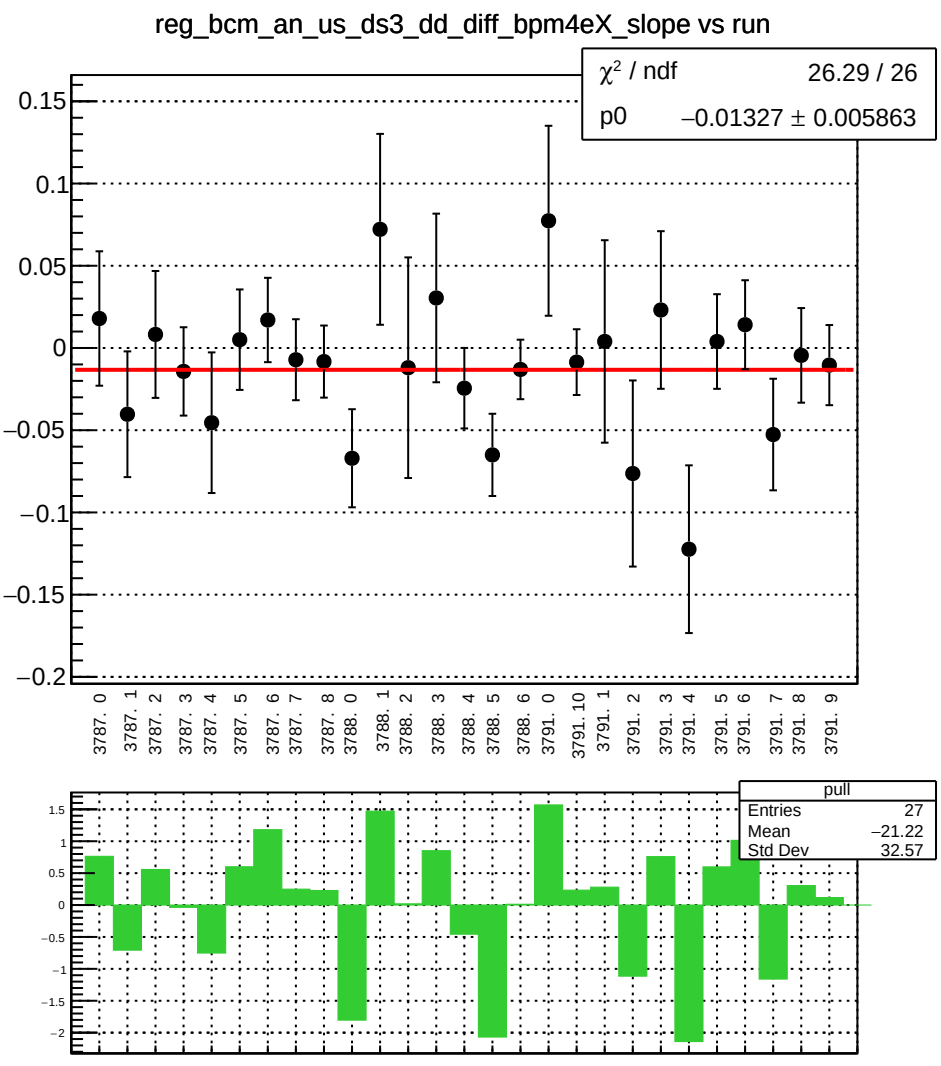
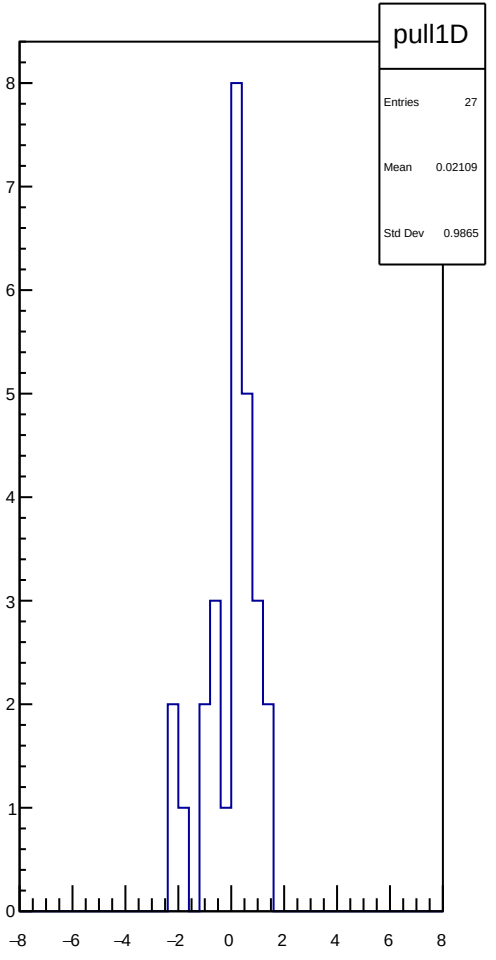
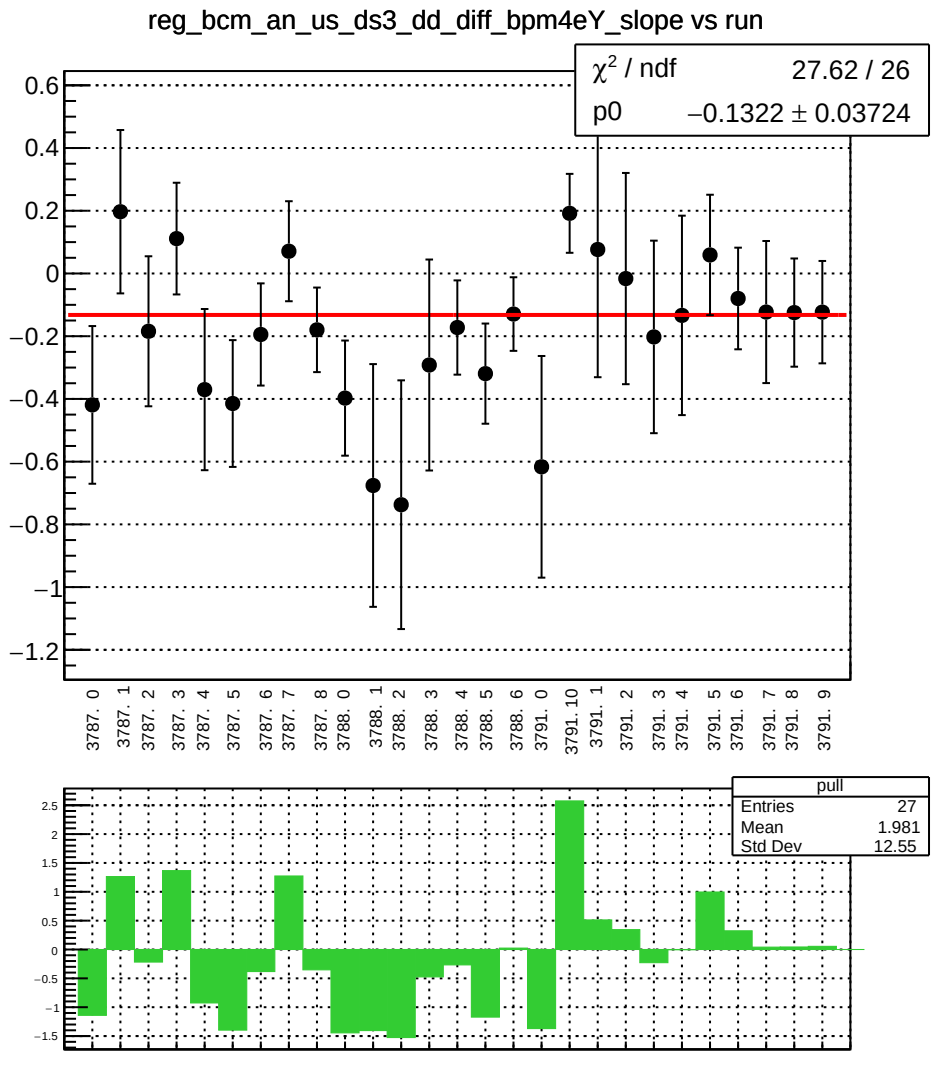
3791. 9
pull
Entries 27
Mean −1636
Std Dev 1649
pull1D
Entries 27
Mean 0.002377
Std Dev 1.027

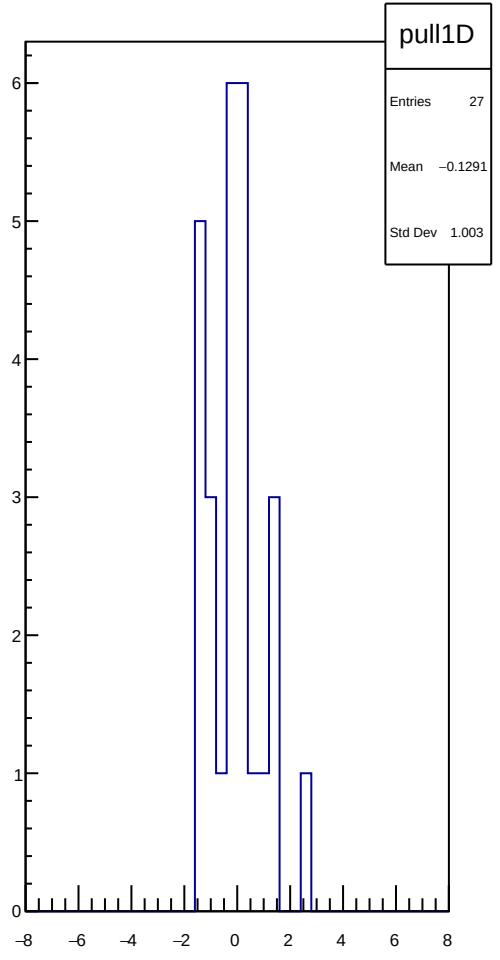

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 29 / 26
p0 0.05796 ± 0.03083
1
0.5
0
−0.5
−1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 356.2
Std Dev 338.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 27
Mean 0.005486
Std Dev 1.036
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

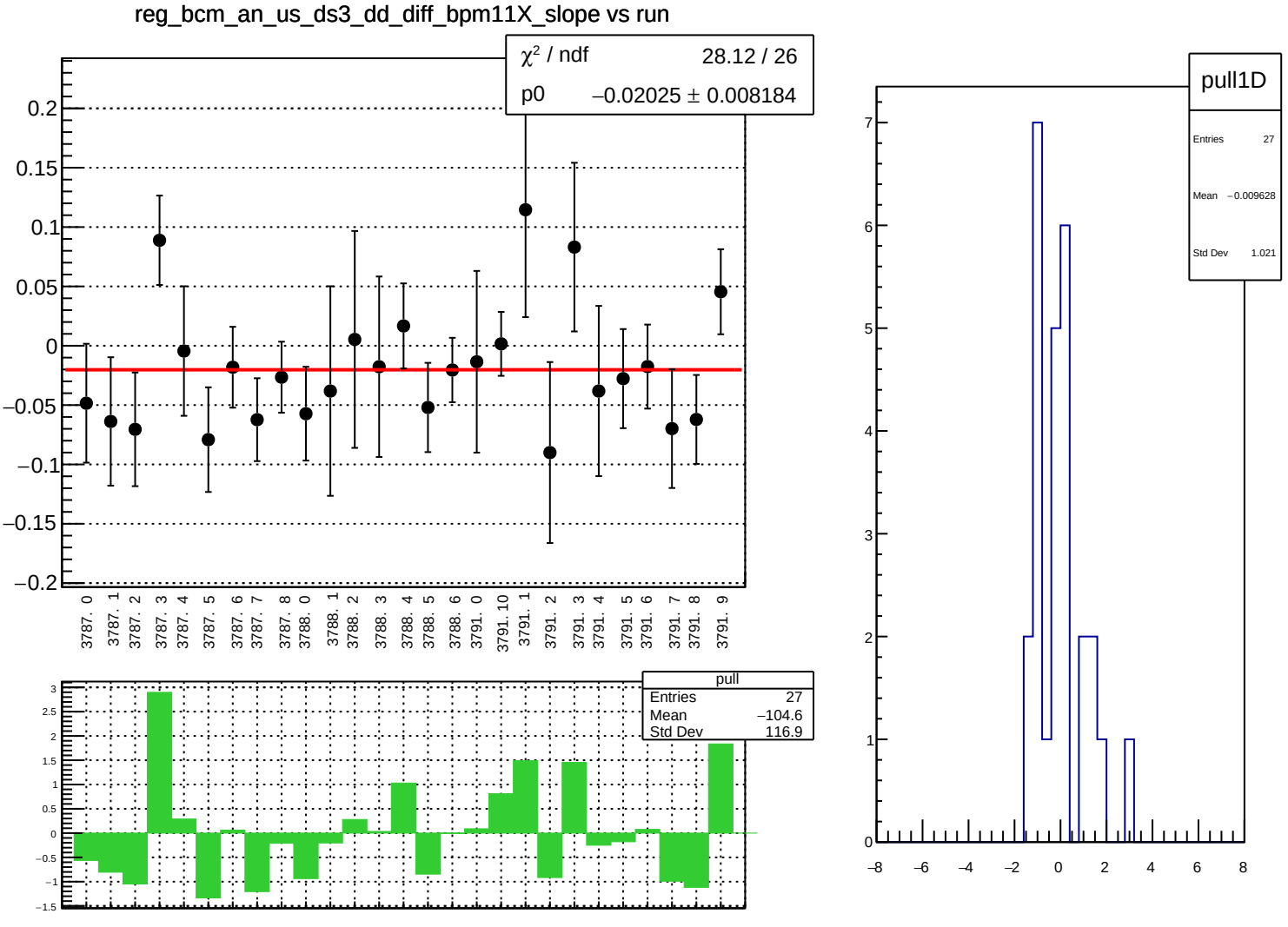

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.9 / 26
p0 0.06808 ± 0.0238
0.6
0.4
0.2
0
−0.2
−0.4
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 0.2549
Std Dev 12.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 27
Mean 0.1427
Std Dev 1.043
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

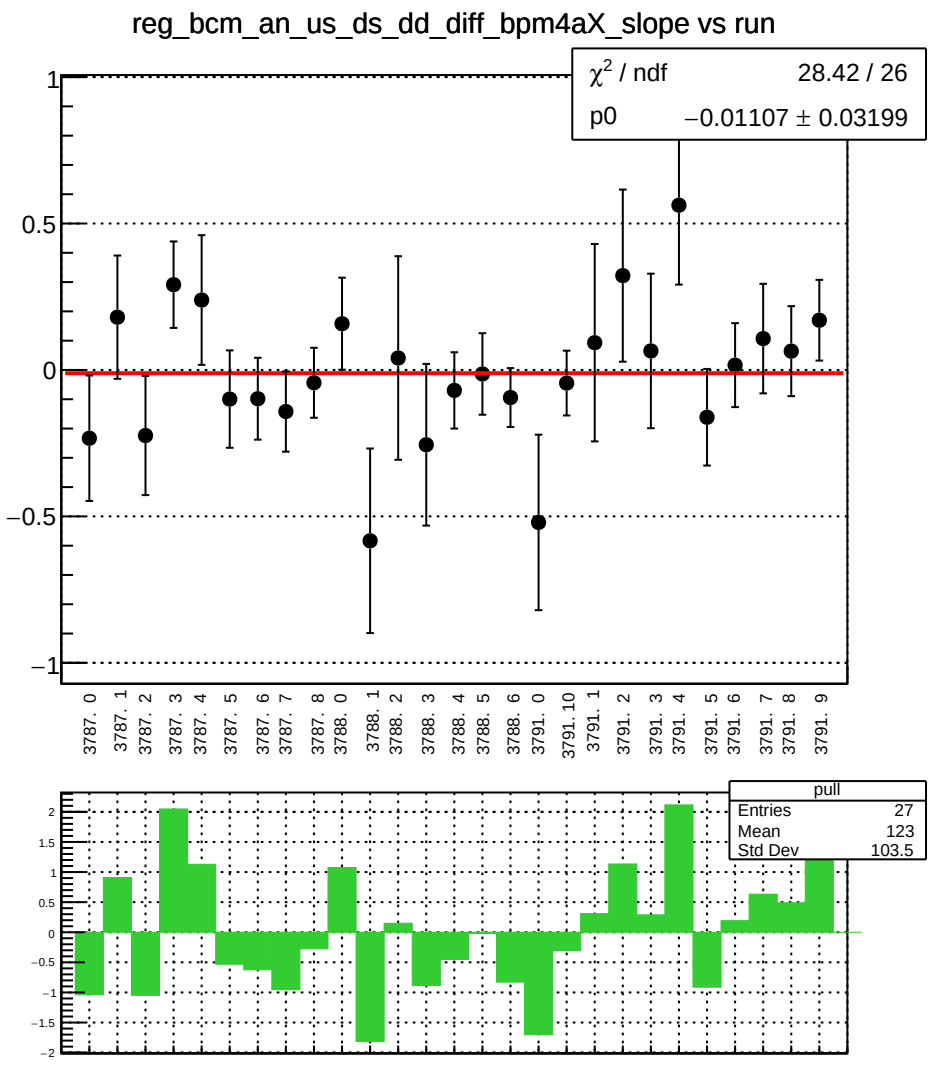

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.29 / 26
p0 −0.01327 ± 0.005863
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −21.22
Std Dev 32.57
1.5
1
0.5
0
−0.5
−1
−1.5
−2

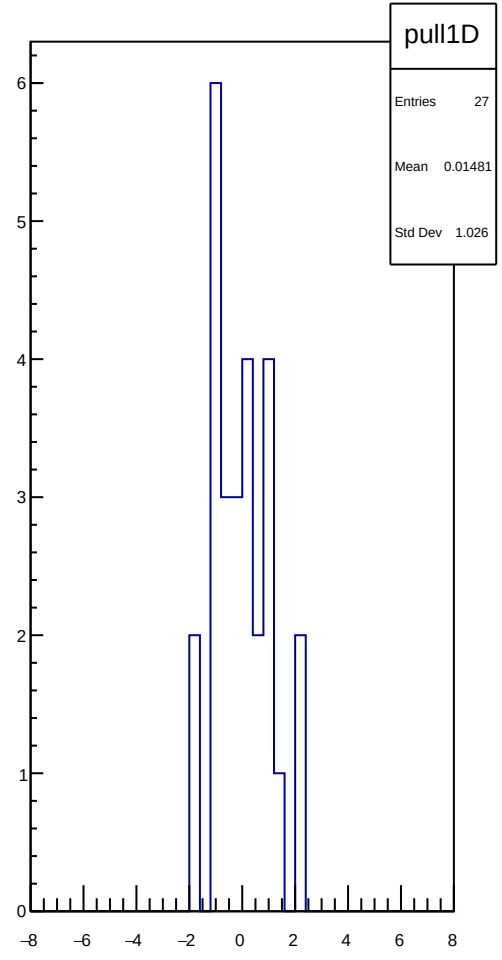

pull1D
Entries 27
Mean 0.02109
Std Dev 0.9865
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

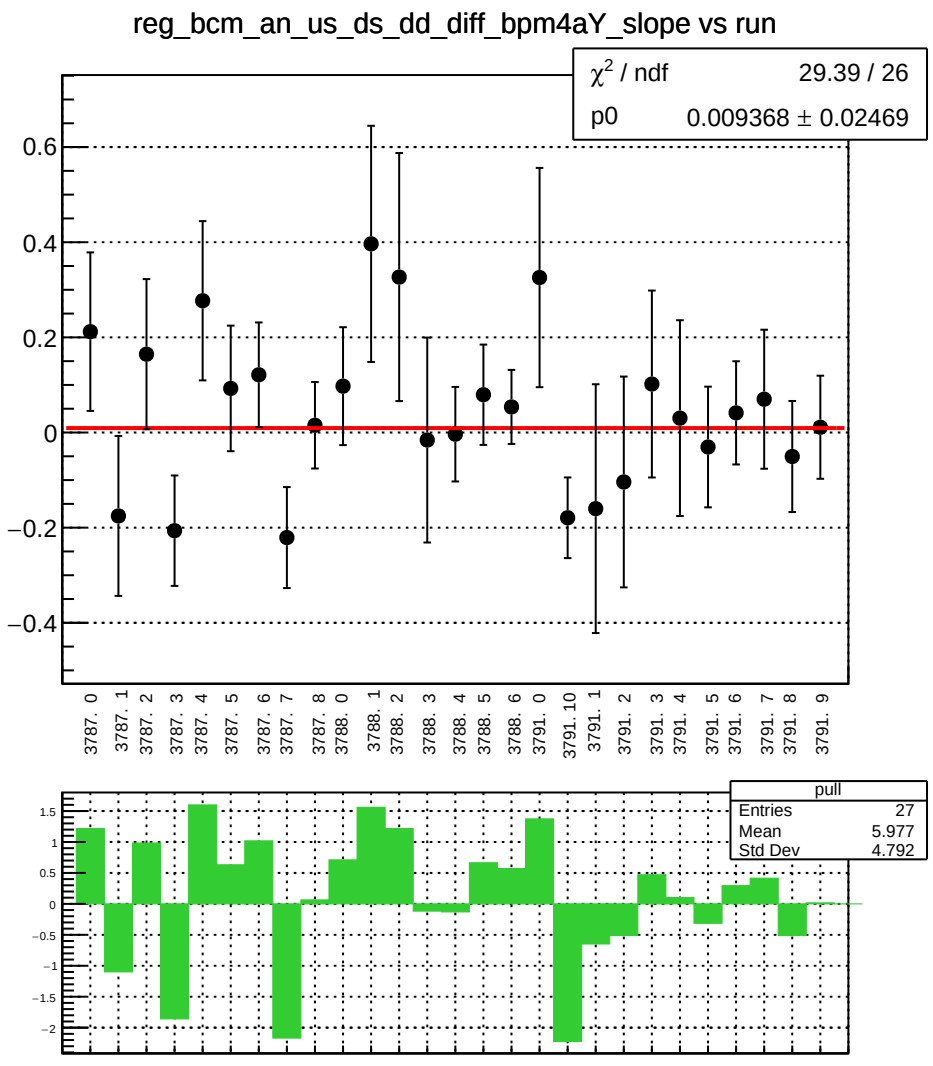

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.62 / 26
p0 −0.1322 ± 0.03724
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 1.981
Std Dev 12.55
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

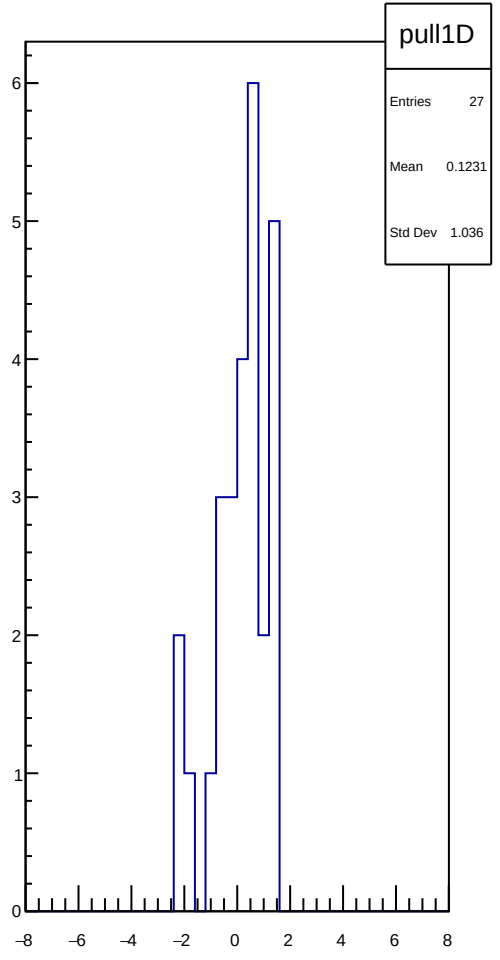

pull1D
Entries 27
Mean −0.1291
Std Dev 1.003
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

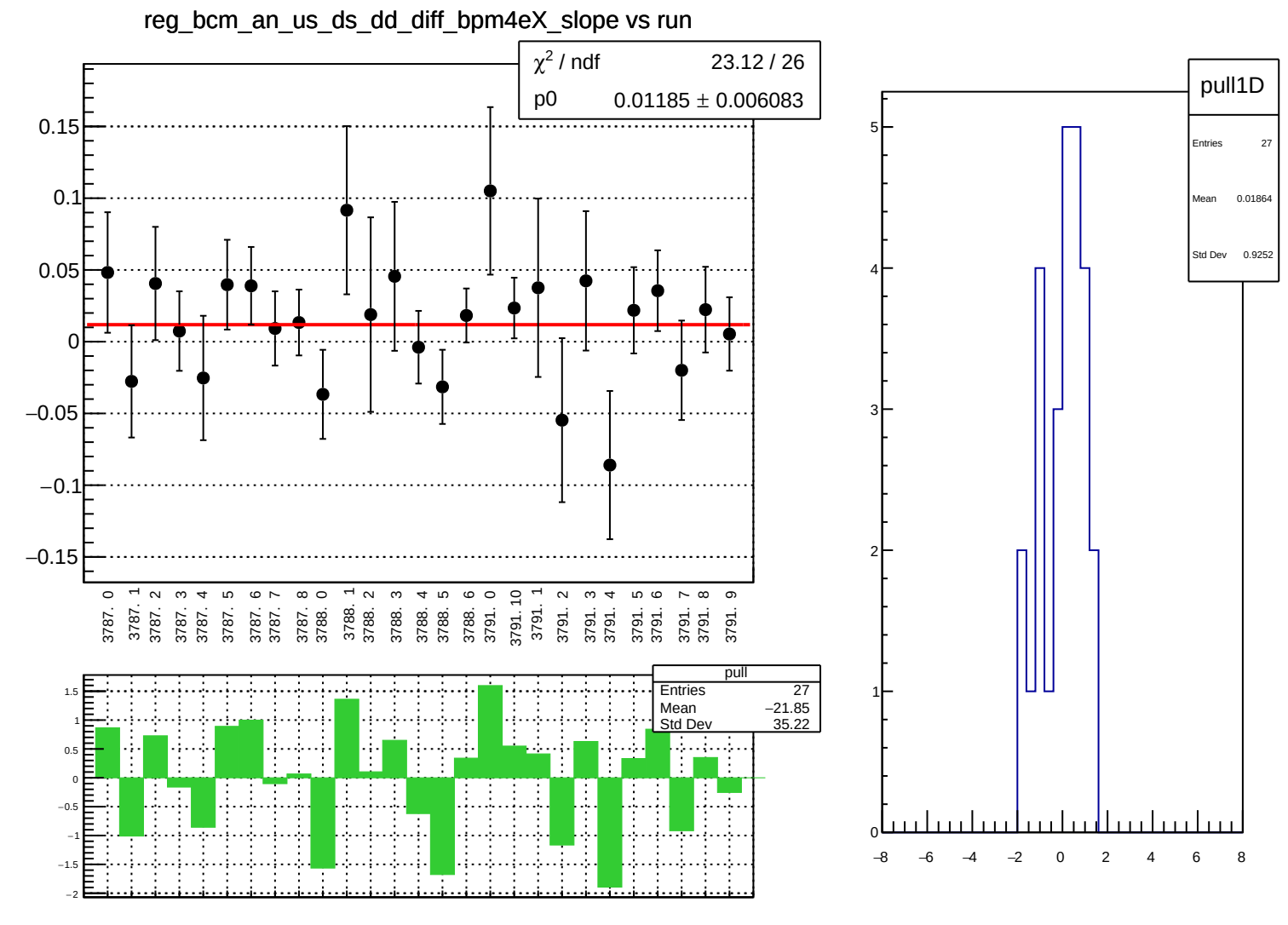

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 28.12 / 26
p0 −0.02025 ± 0.008184
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −104.6
Std Dev 116.9
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean −0.009628
Std Dev 1.021
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

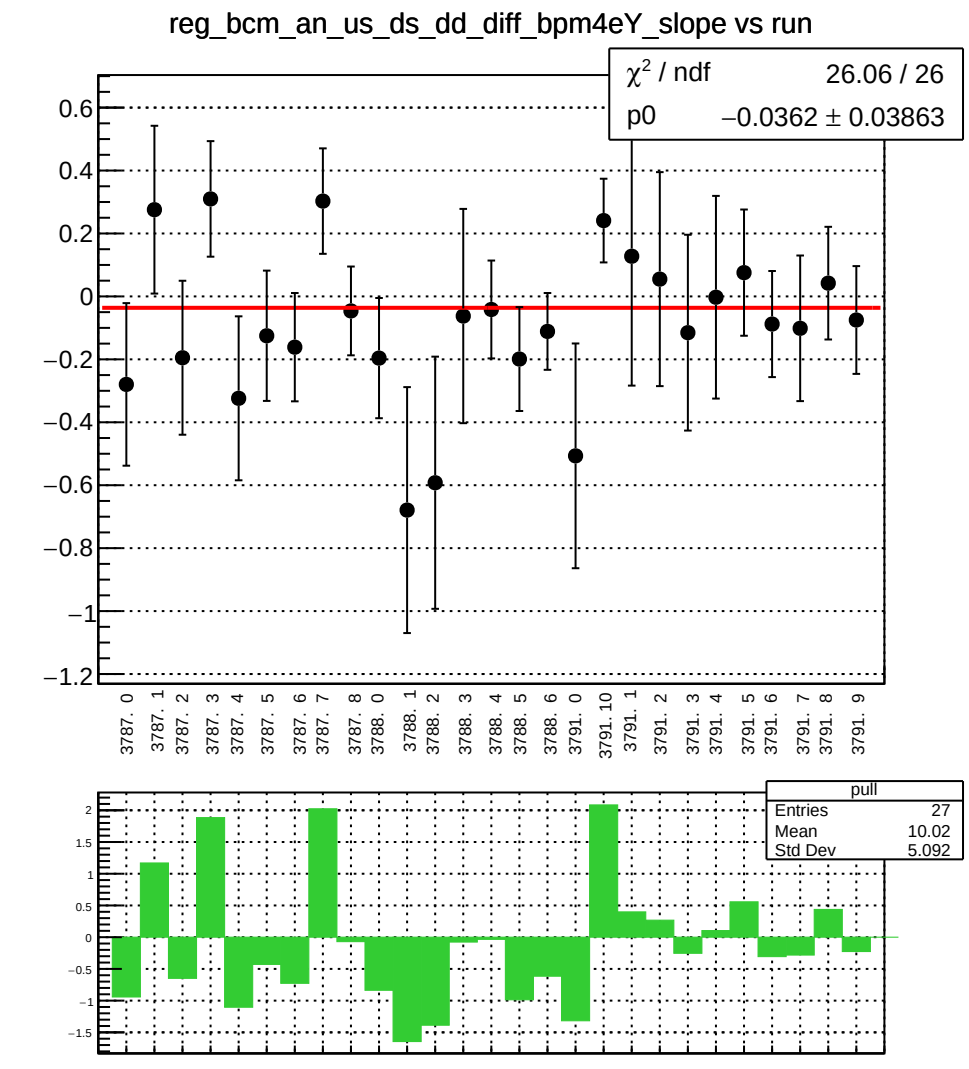

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 28.42 / 26
p0 −0.01107 ± 0.03199
1
0.5
0
−0.5
−1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 123
Std Dev 103.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

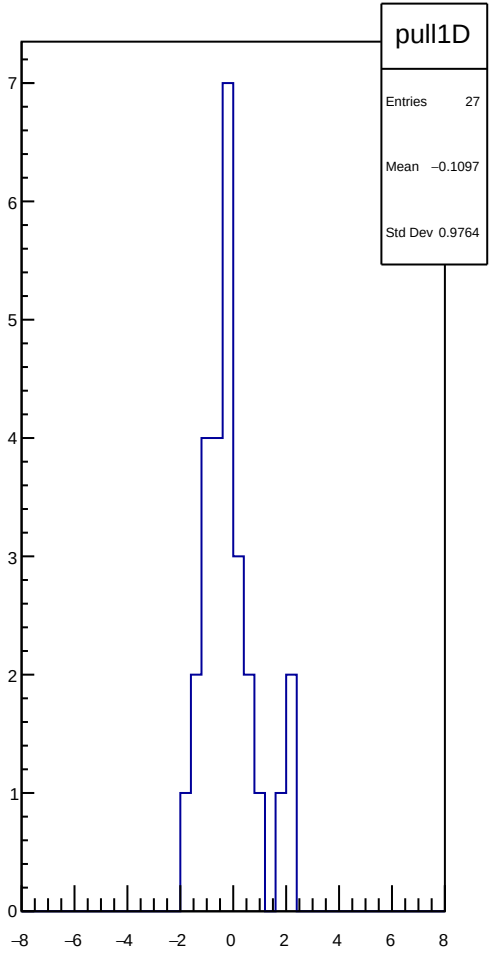

pull1D
Entries 27
Mean 0.01481
Std Dev 1.026
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

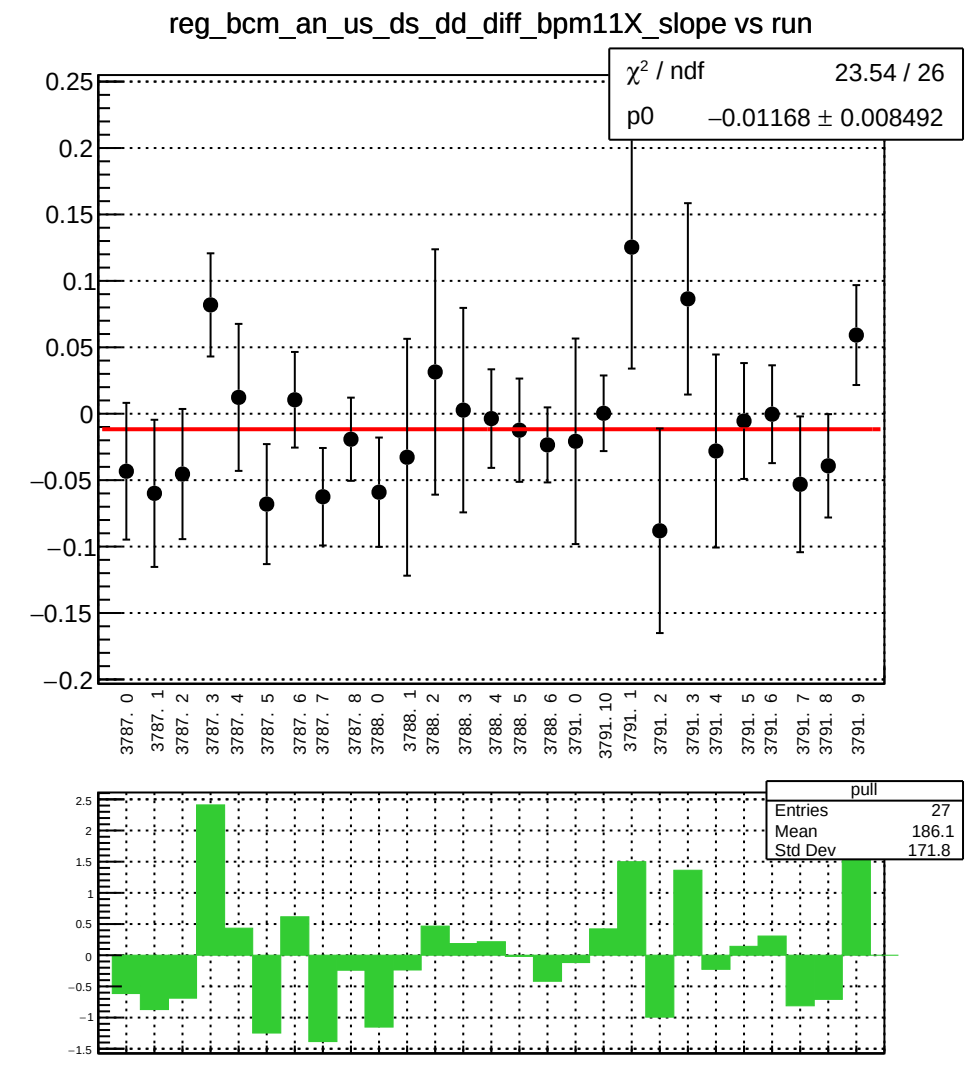

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.39 / 26
p0 0.009368 ± 0.02469
0.6
0.4
0.2
0
−0.2
−0.4
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 5.977
Std Dev 4.792
1.5
1
0.5
0
−0.5
−1
−1.5
−2

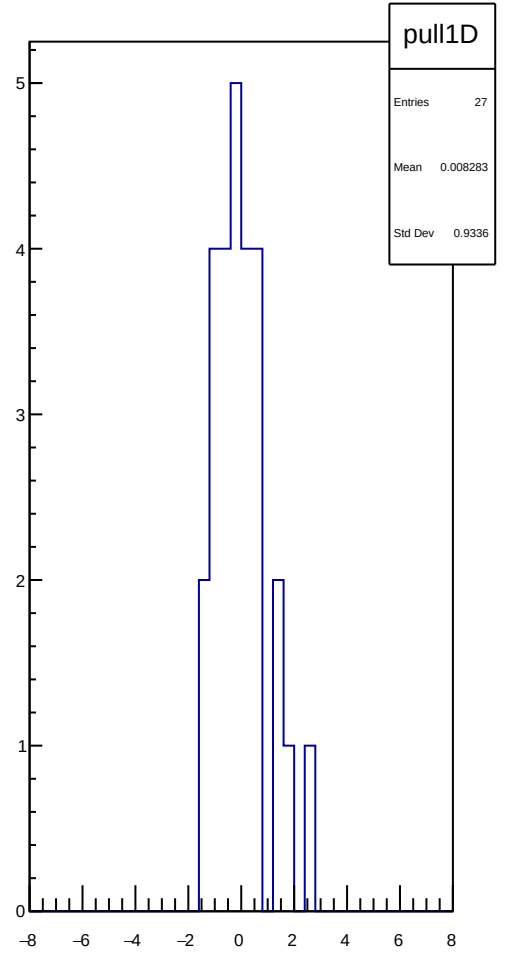

pull1D
Entries 27
Mean 0.1231
Std Dev 1.036
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

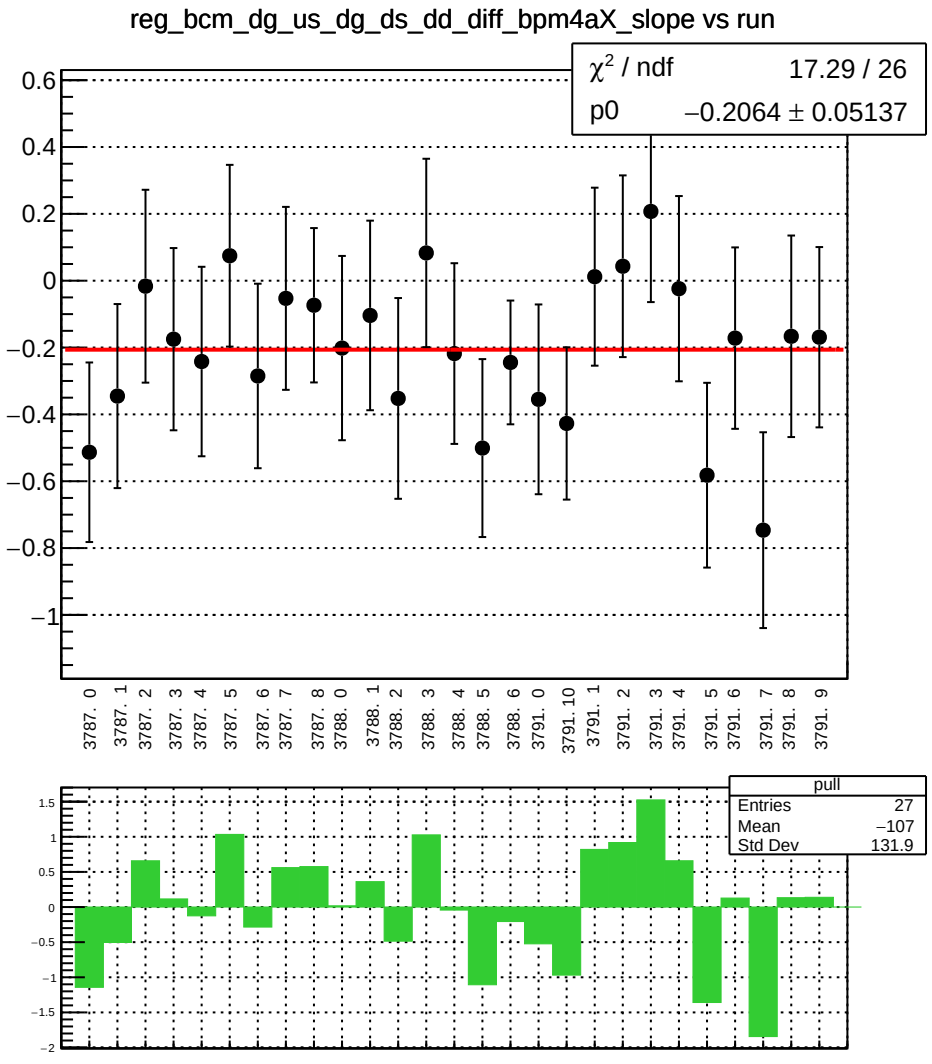

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.12 / 26
p0 0.01185 ± 0.006083
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −21.85
Std Dev 35.22
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 27
Mean 0.01864
Std Dev 0.9252
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

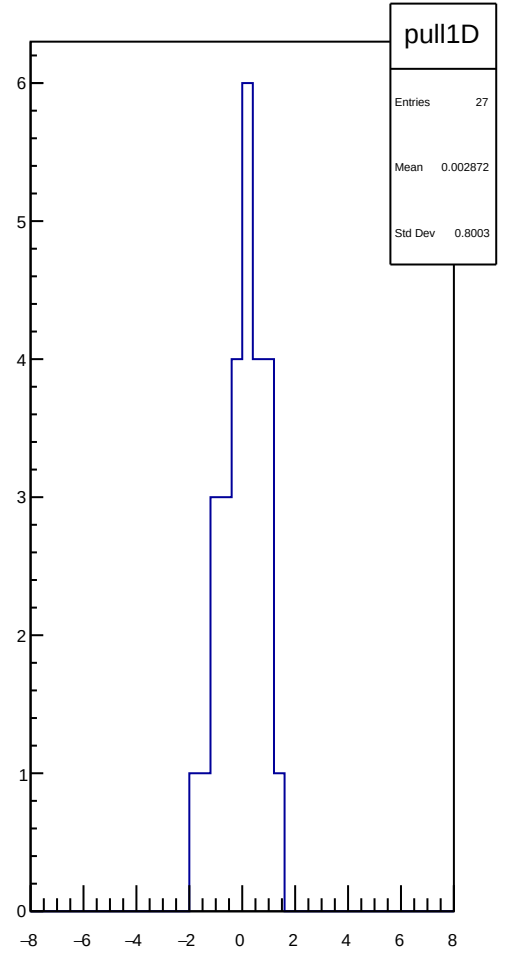

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.06 / 26
p0 −0.0362 ± 0.03863
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 10.02
Std Dev 5.092
2
1.5
1
0.5
0
−0.5
−1
−1.5

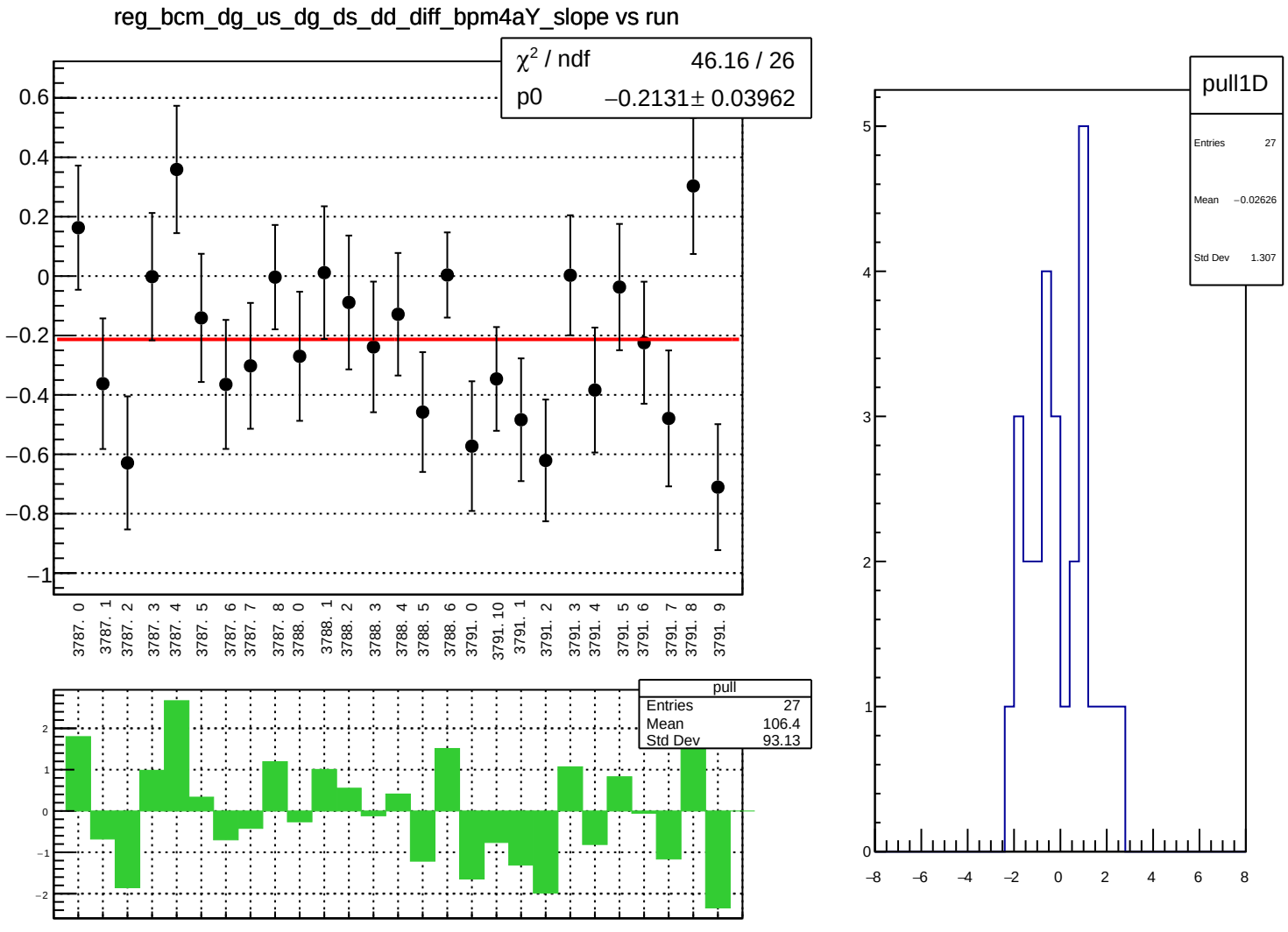

pull1D
Entries 27
Mean −0.1097
Std Dev 0.9764
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

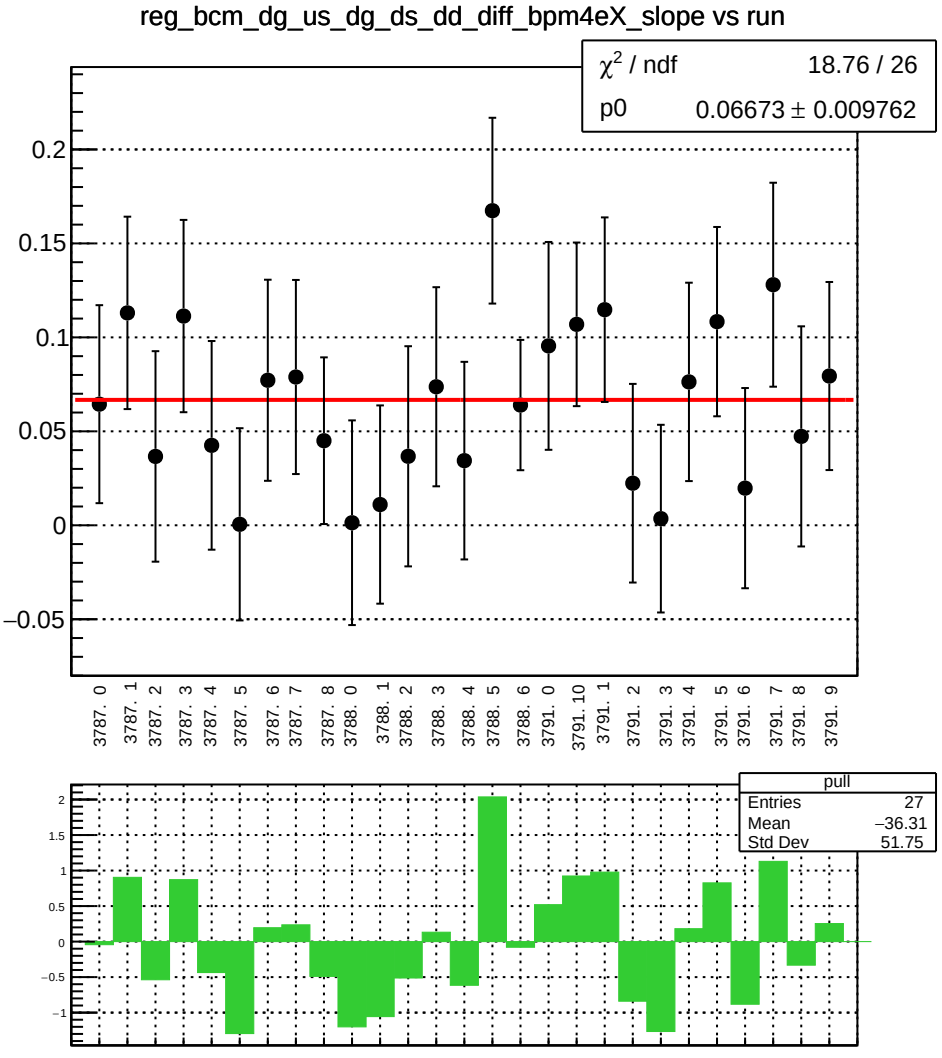

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 23.54 / 26
p0 −0.01168 ± 0.008492
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 186.1
Std Dev 171.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

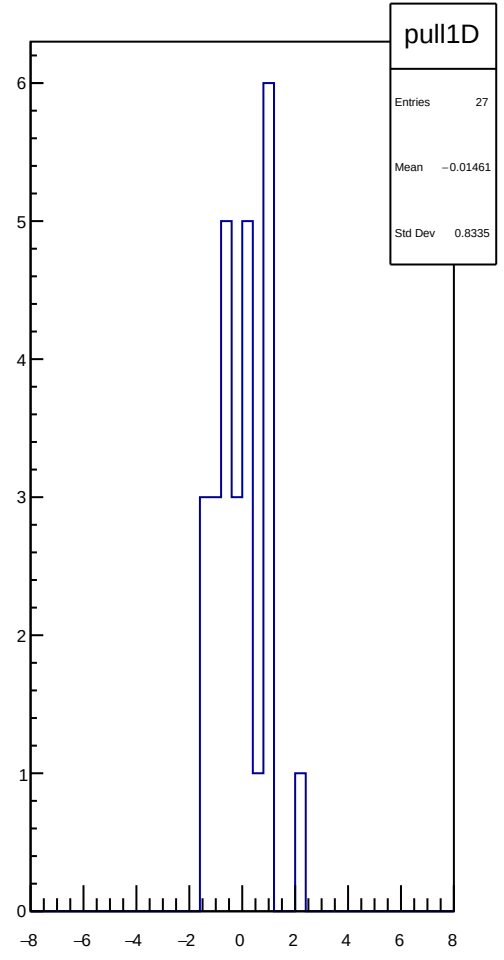

pull1D
Entries 27
Mean 0.008283
Std Dev 0.9336
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

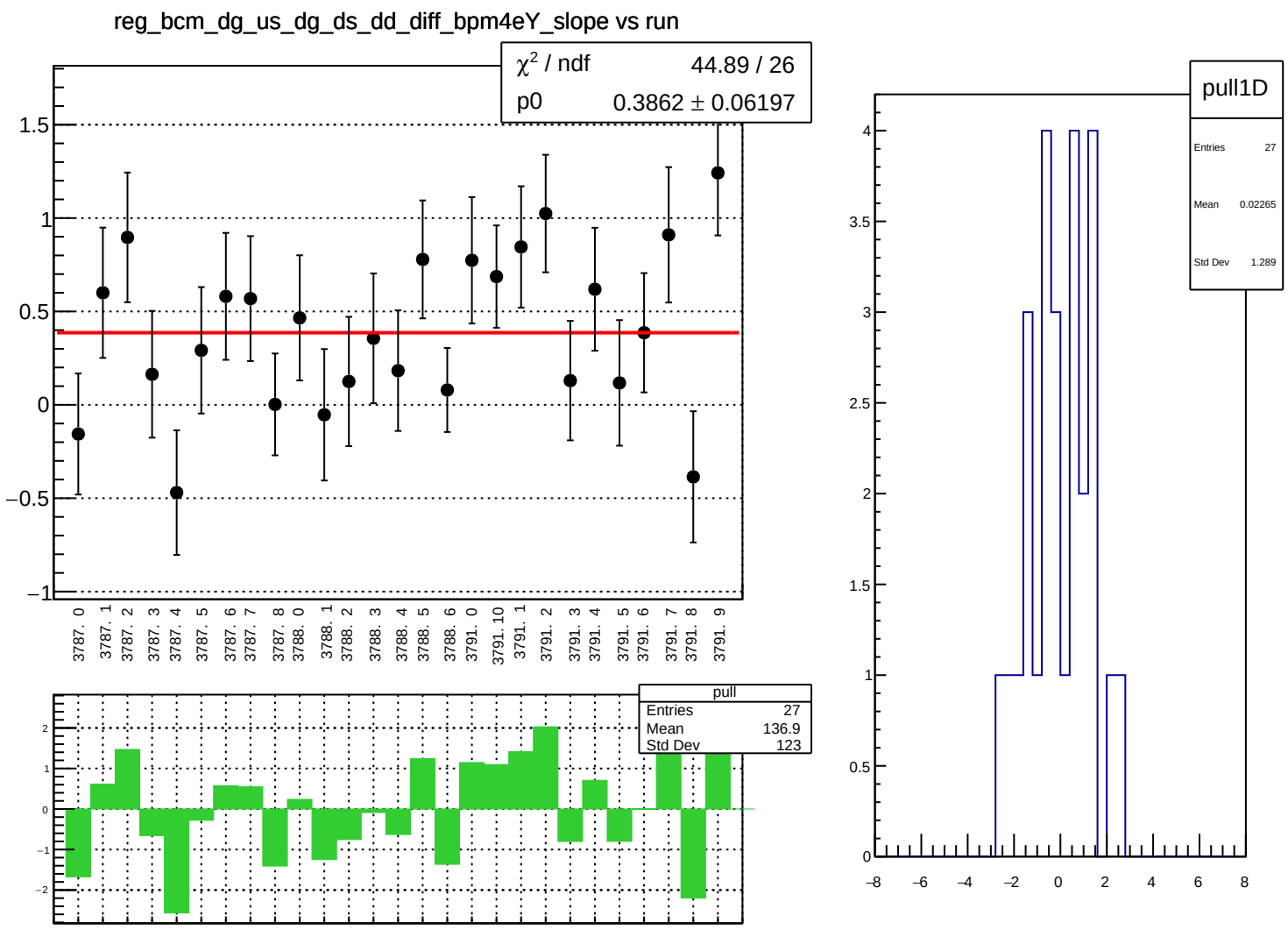

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 17.29 / 26
p0 −0.2064 ± 0.05137
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −107
Std Dev 131.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

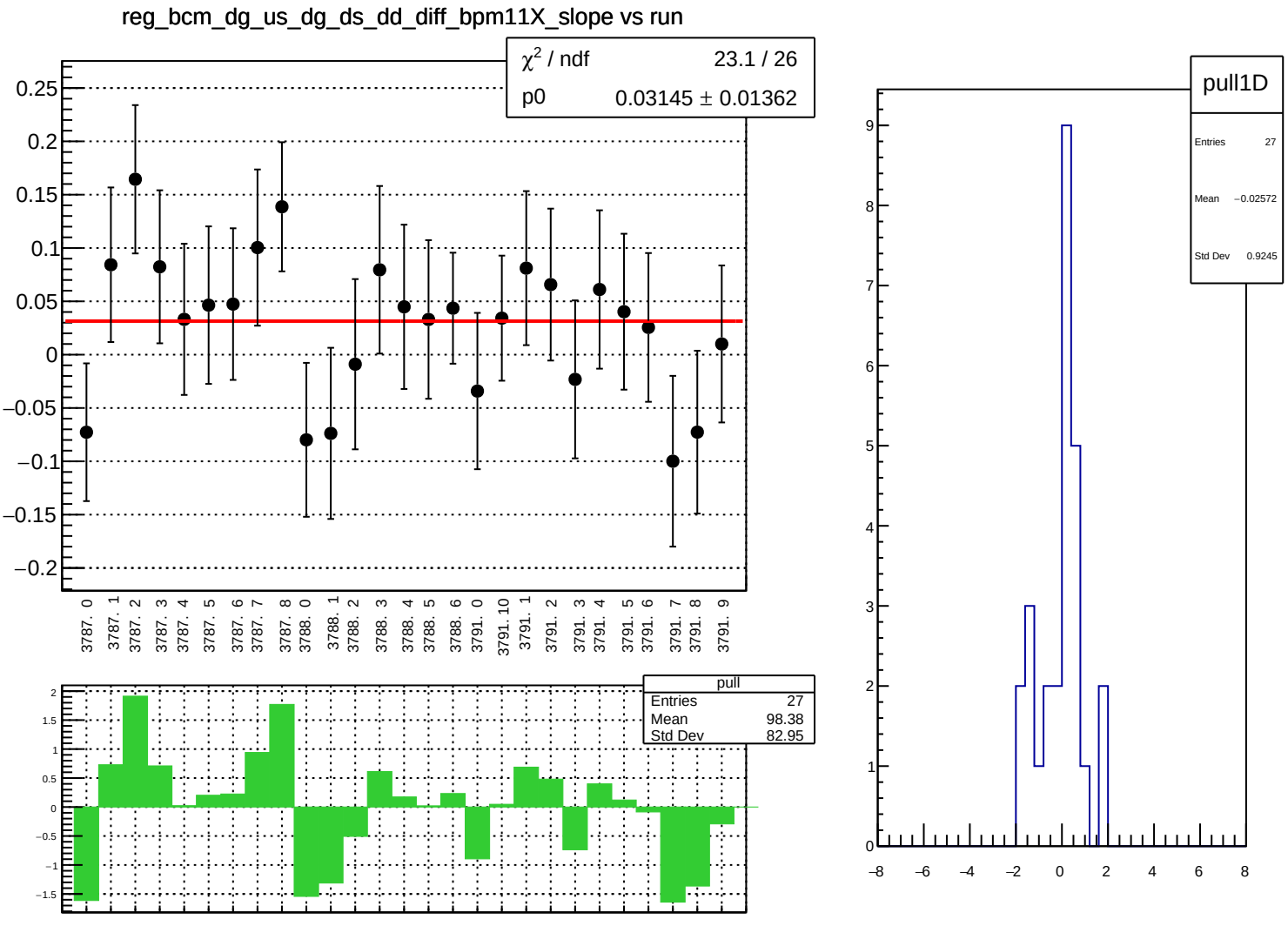

pull1D
Entries 27
Mean 0.002872
Std Dev 0.8003
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

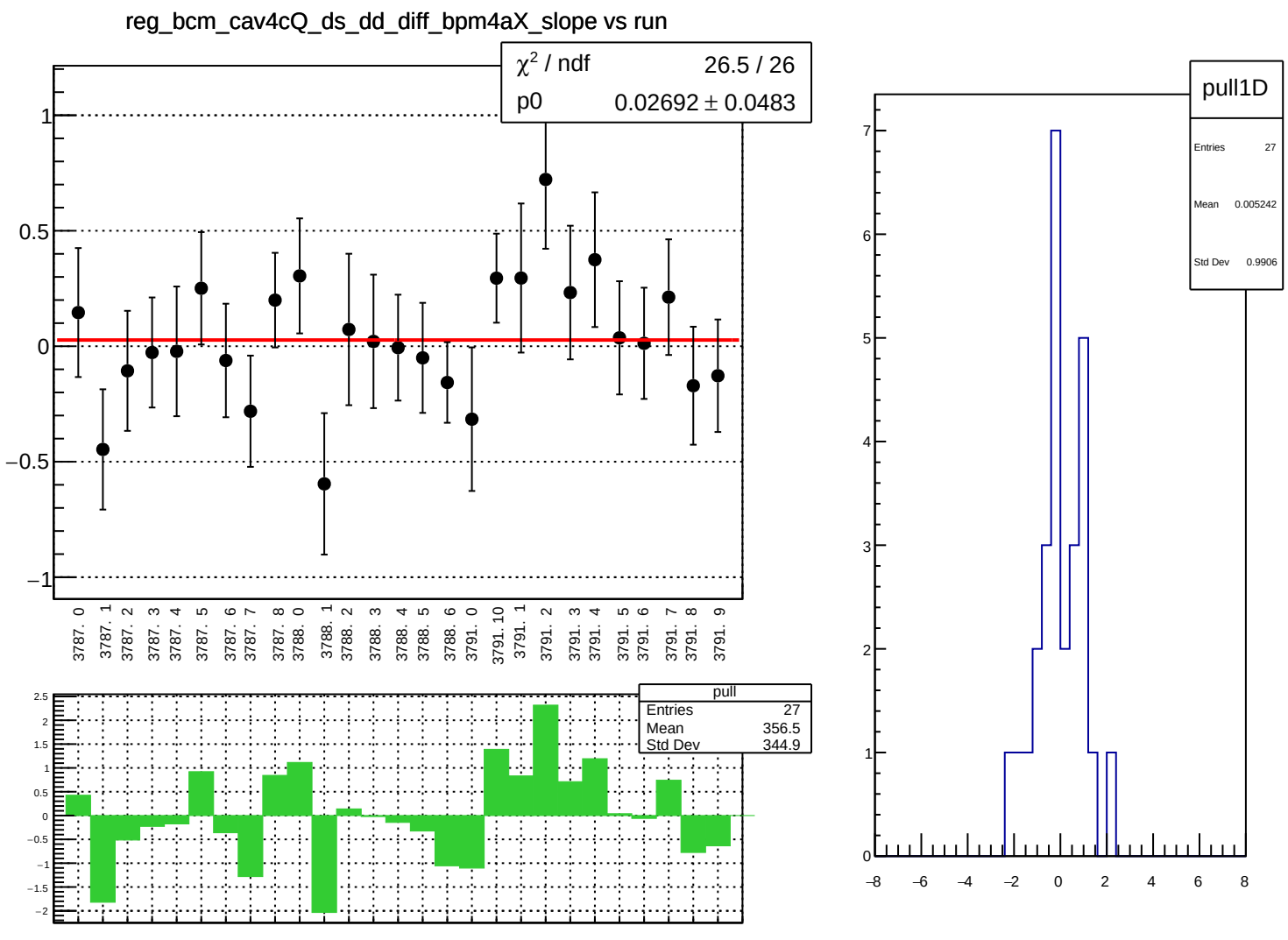

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.16 / 26
p0 −0.2131± 0.03962
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 106.4
Std Dev 93.13
2
1
0
−1
−2
pull1D
Entries 27
Mean −0.02626
Std Dev 1.307
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

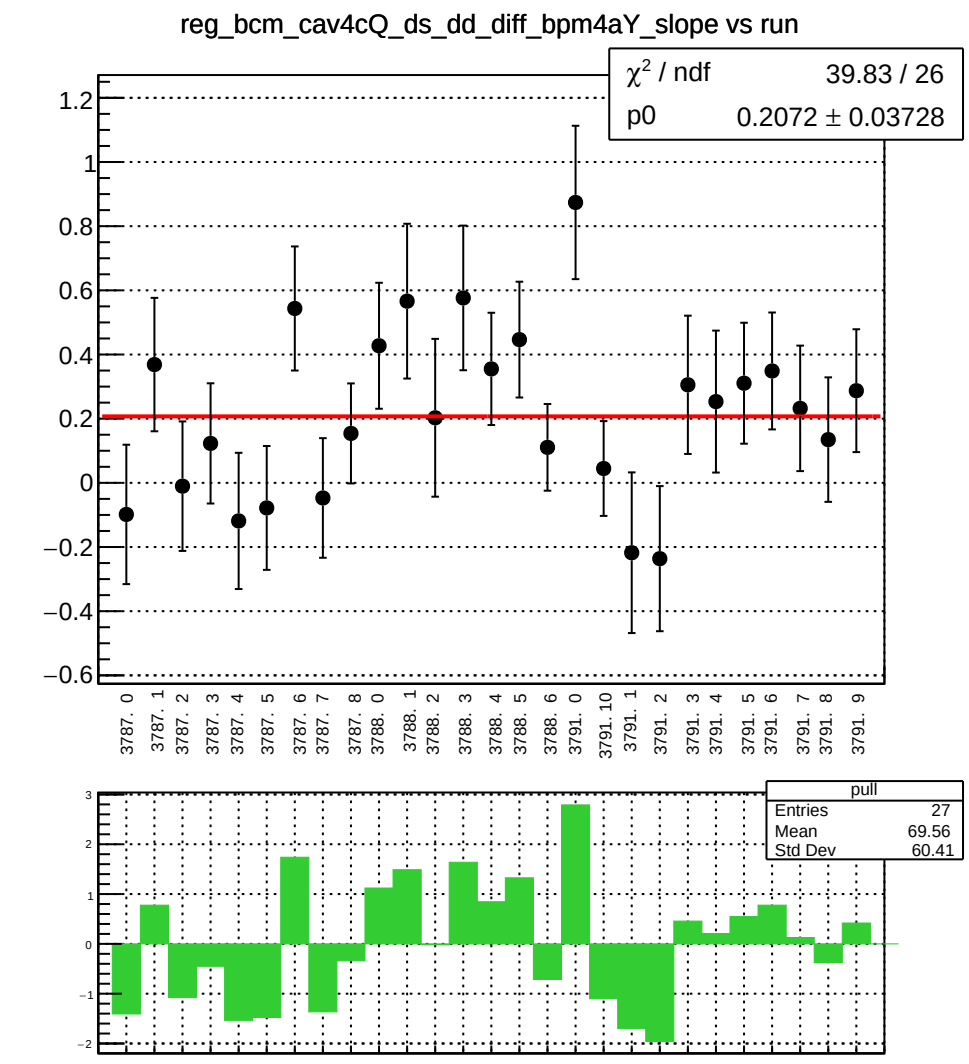

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.76 / 26
p0 0.06673 ± 0.009762
0.2
0.15
0.1
0.05
0
−0.05
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −36.31
Std Dev 51.75
2
1.5
1
0.5
0
−0.5
−1

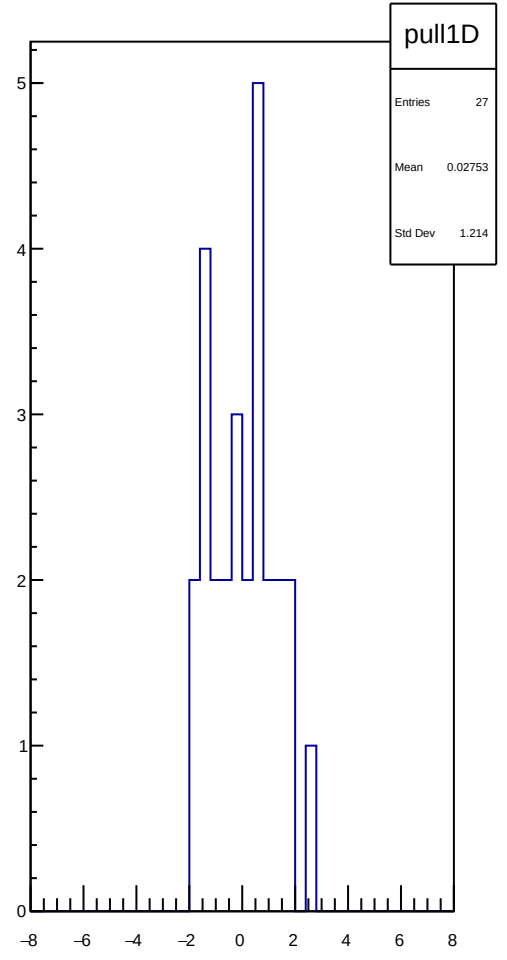

pull1D
Entries 27
Mean −0.01461
Std Dev 0.8335
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

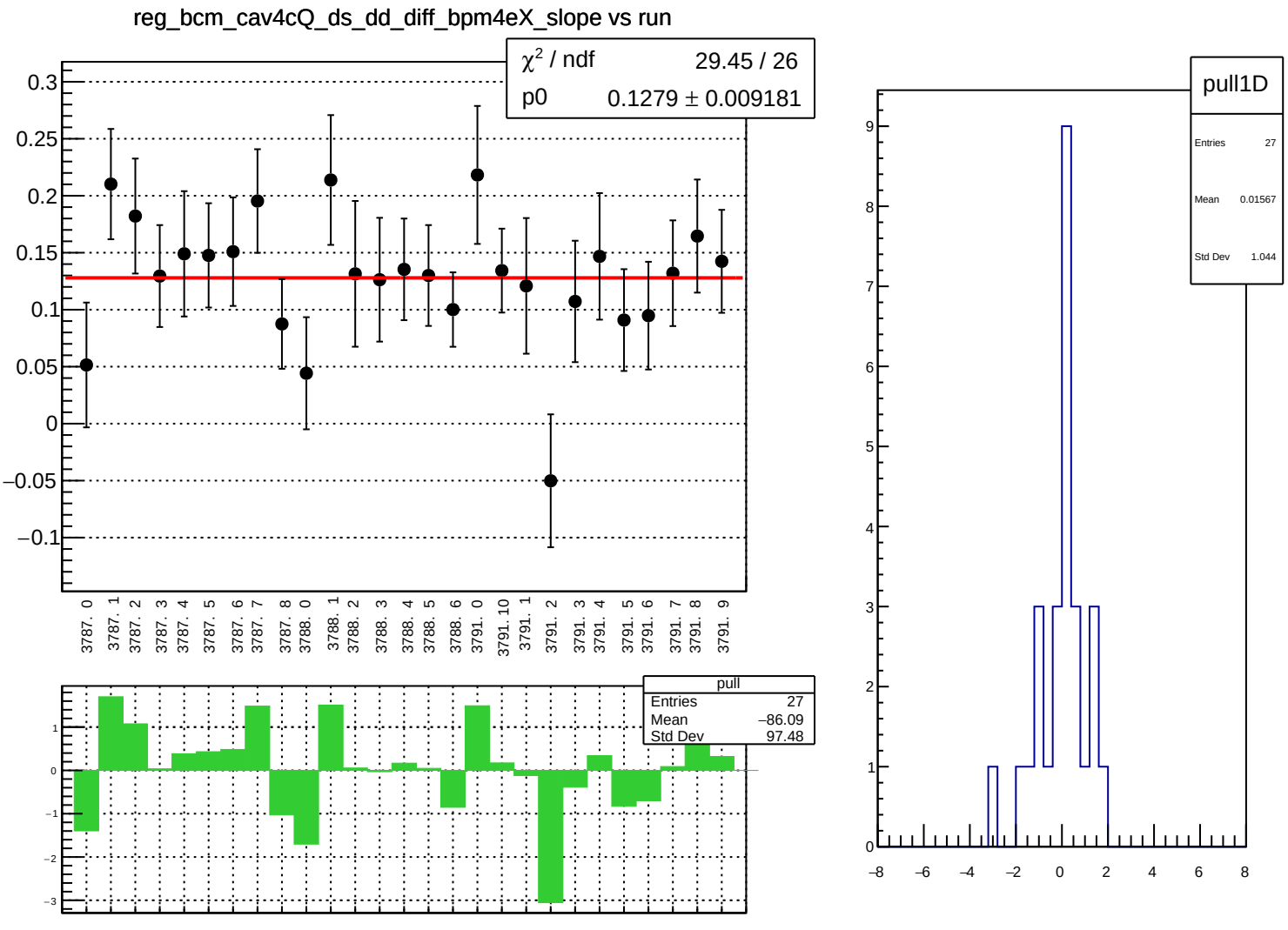

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.89 / 26
p0 0.3862 ± 0.06197
1.5
1
0.5
0
−0.5
−1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 136.9
Std Dev 123
2
1
0
−1
−2
pull1D
Entries 27
Mean 0.02265
Std Dev 1.289
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

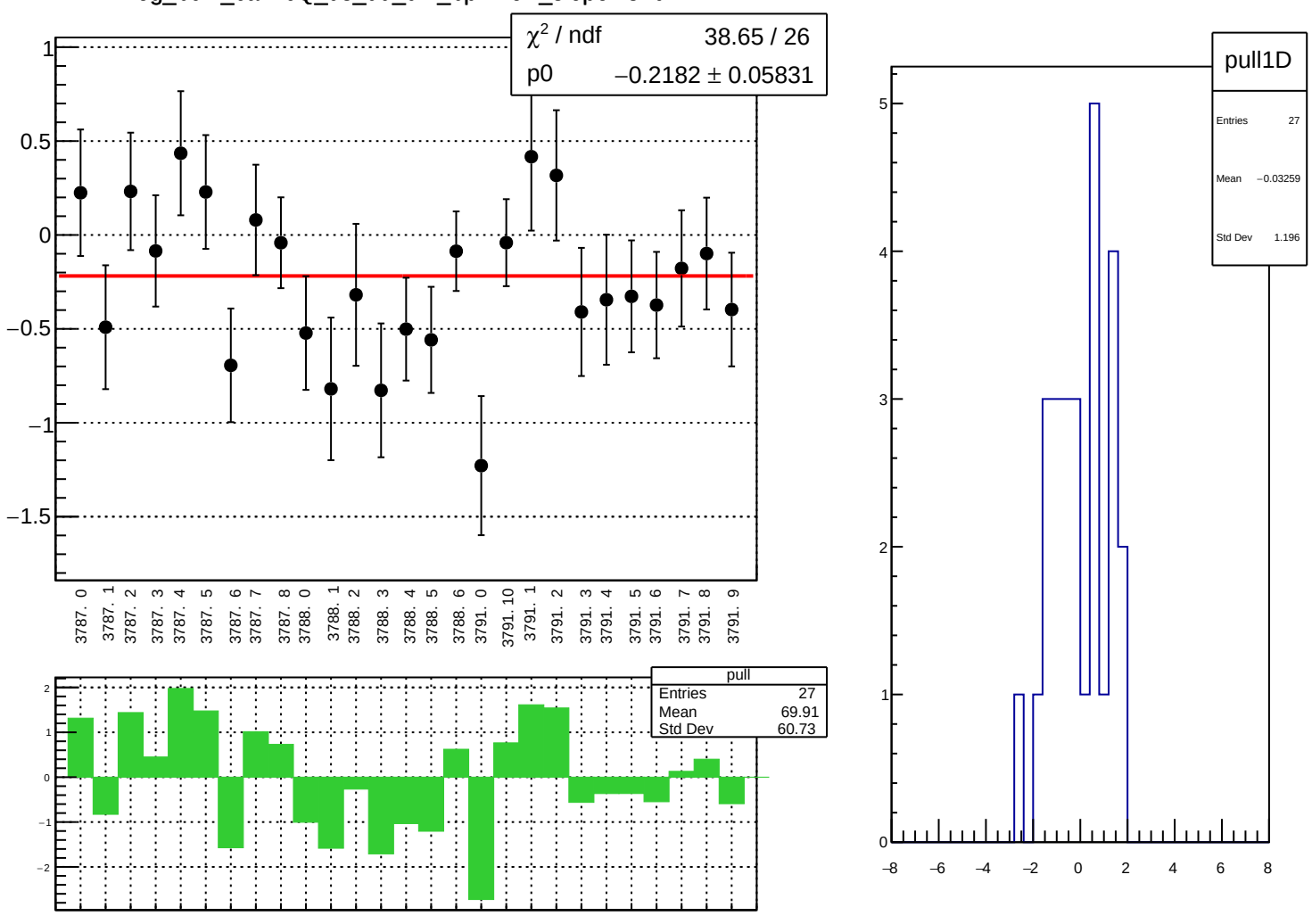

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 23.1 / 26
p0 0.03145 ± 0.01362
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 98.38
Std Dev 82.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 27
Mean −0.02572
Std Dev 0.9245
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

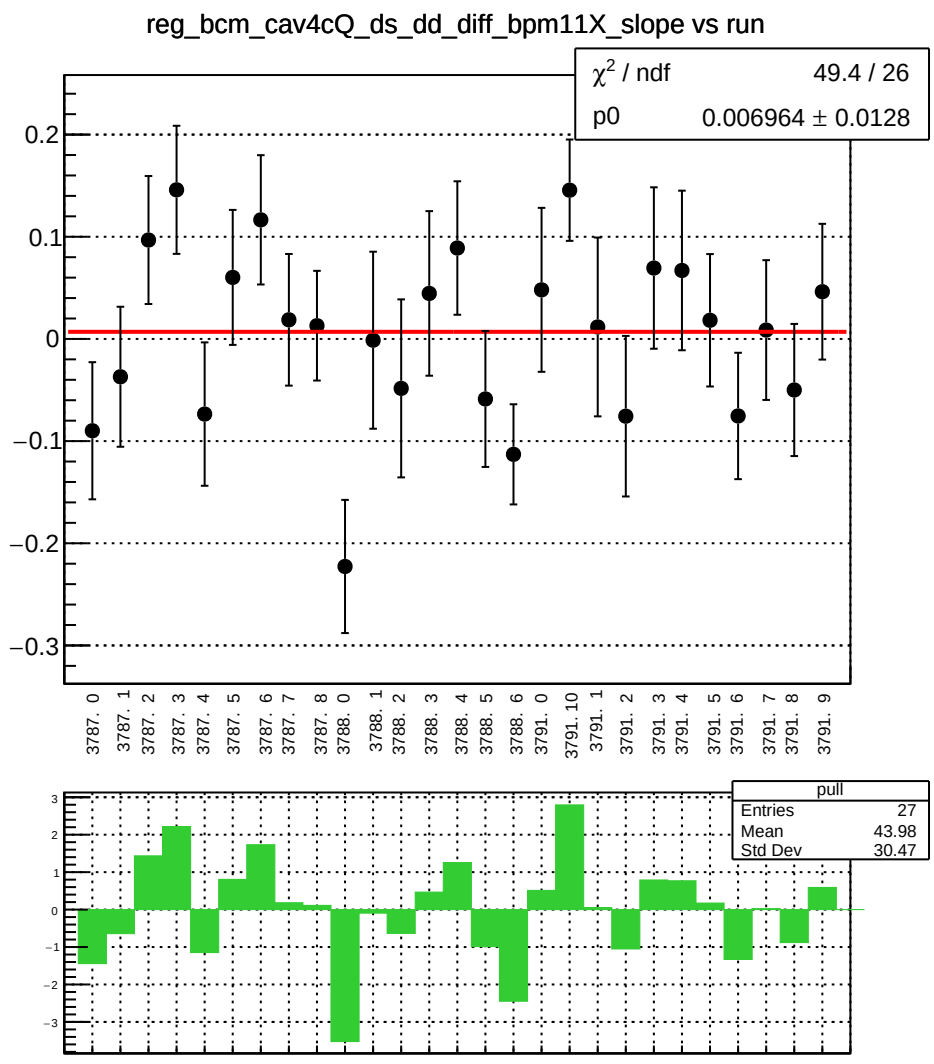

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 26.5 / 26
p0 0.02692 ± 0.0483
1
0.5
0
−0.5
−1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 356.5
Std Dev 344.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 27
Mean 0.005242
Std Dev 0.9906
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

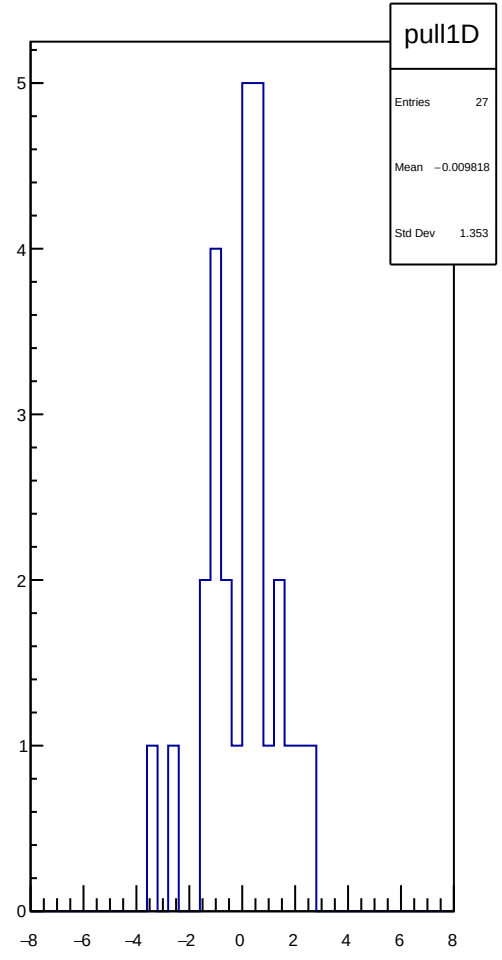

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.83 / 26
p0 0.2072 ± 0.03728
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 69.56
Std Dev 60.41
3
2
1
0
−1
−2

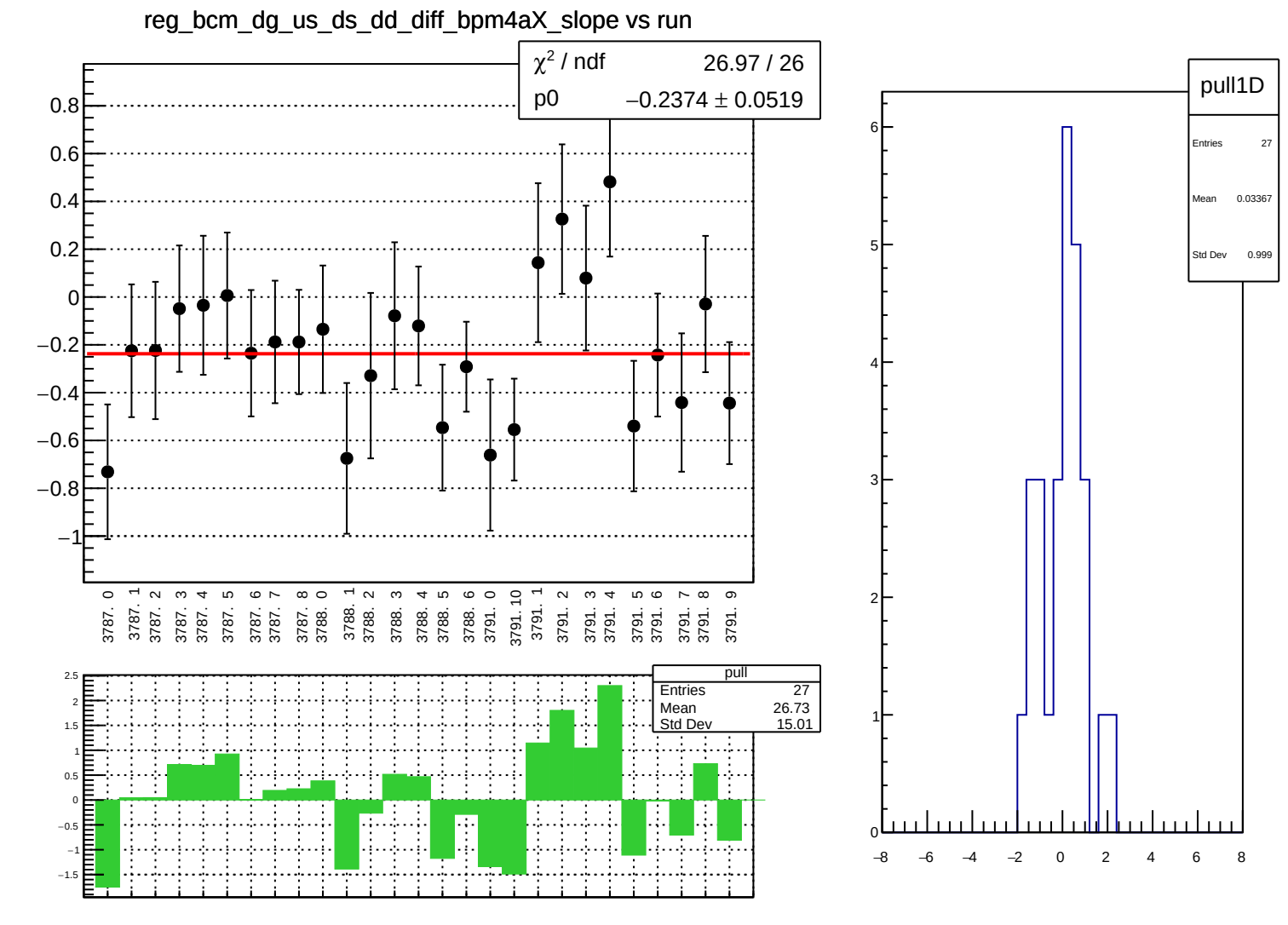

pull1D
Entries 27
Mean 0.02753
Std Dev 1.214
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

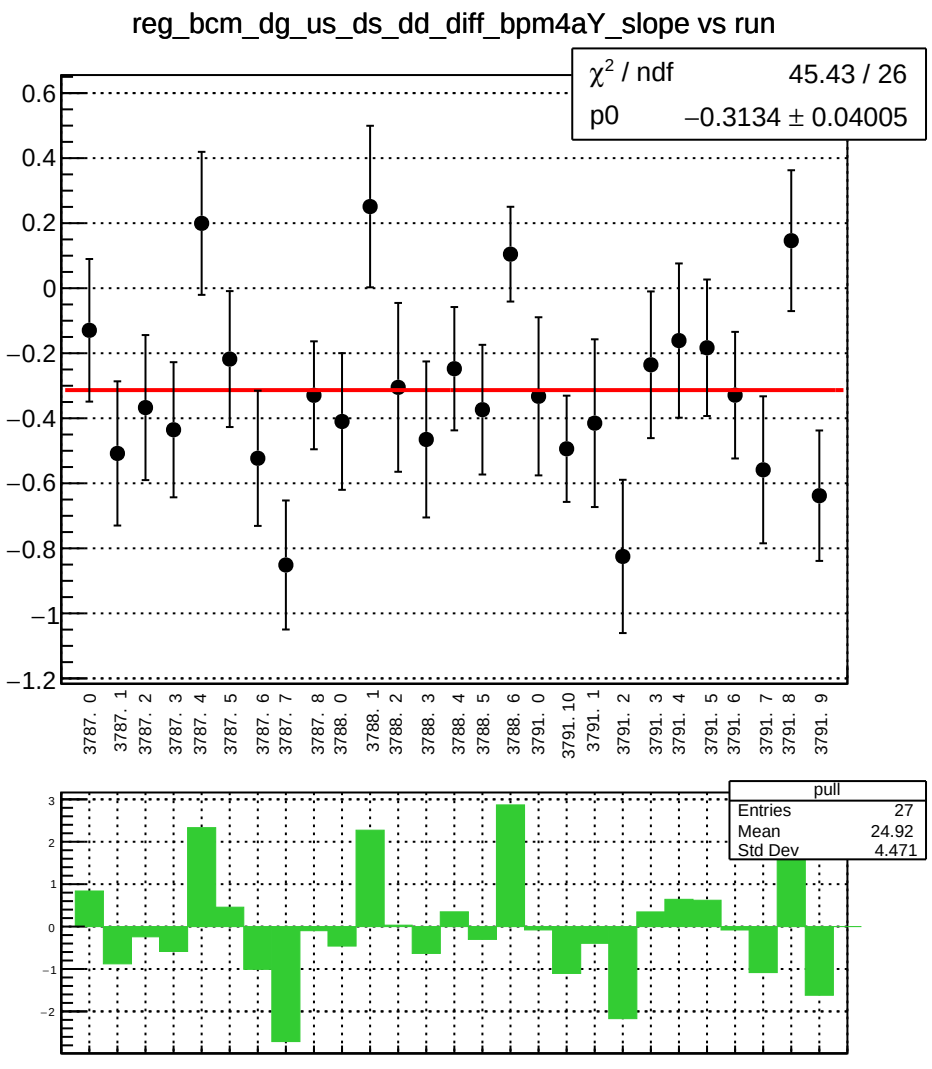

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.45 / 26
p0 0.1279 ± 0.009181
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −86.09
Std Dev 97.48
1
0
−1
−2
−3
pull1D
Entries 27
Mean 0.01567
Std Dev 1.044
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

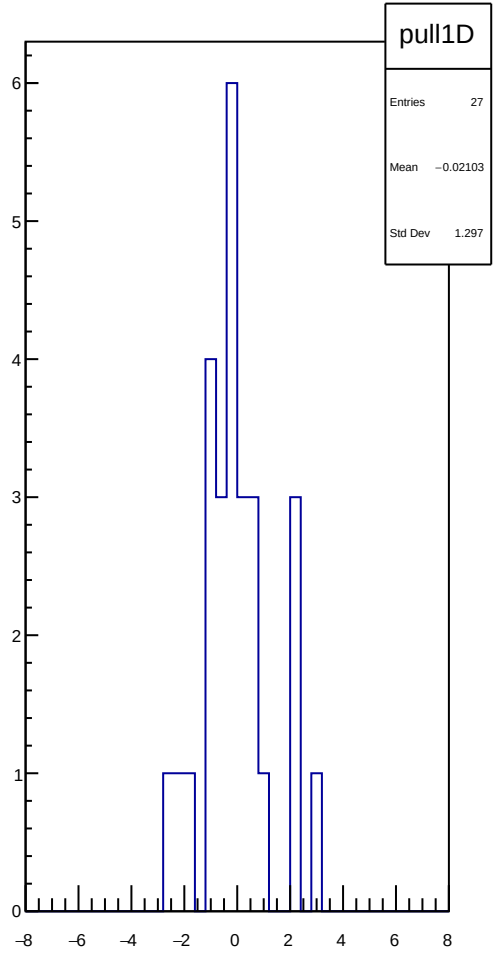

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.65 / 26
p0 −0.2182 ± 0.05831
1
0.5
0
−0.5
−1
−1.5
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 69.91
Std Dev 60.73
2
1
0
−1
−2
pull1D
Entries 27
Mean −0.03259
Std Dev 1.196
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

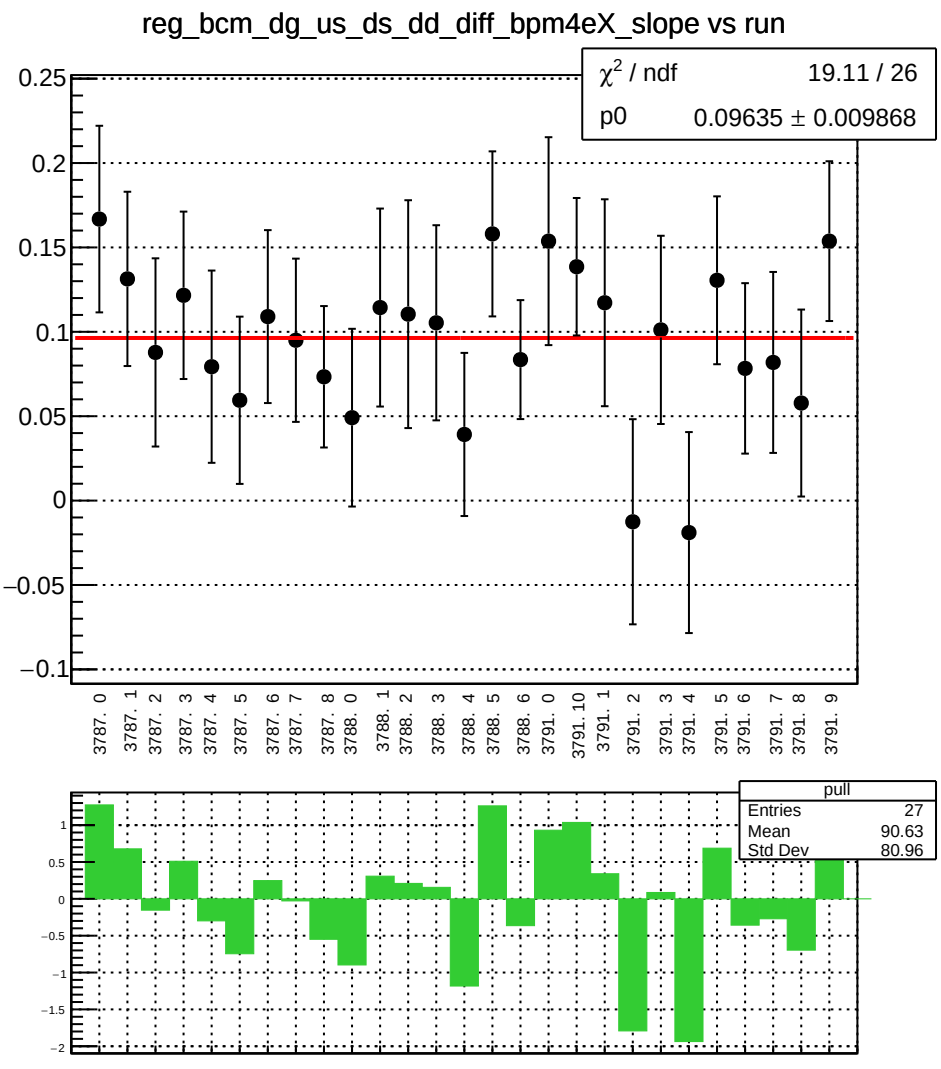

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 49.4 / 26
p0 0.006964 ± 0.0128
0.2
0.1
0
−0.1
−0.2
−0.3
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 43.98
Std Dev 30.47
3
2
1
0
−1
−2
−3

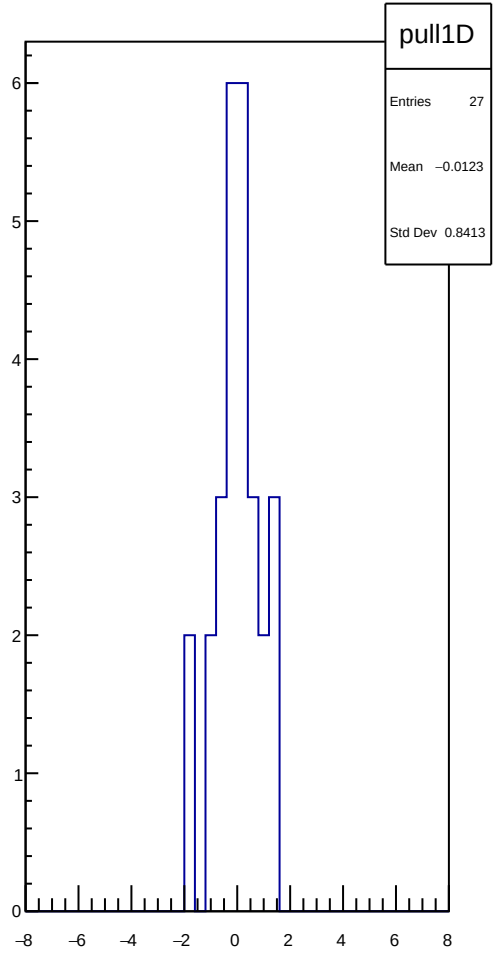

pull1D
Entries 27
Mean −0.009818
Std Dev 1.353
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

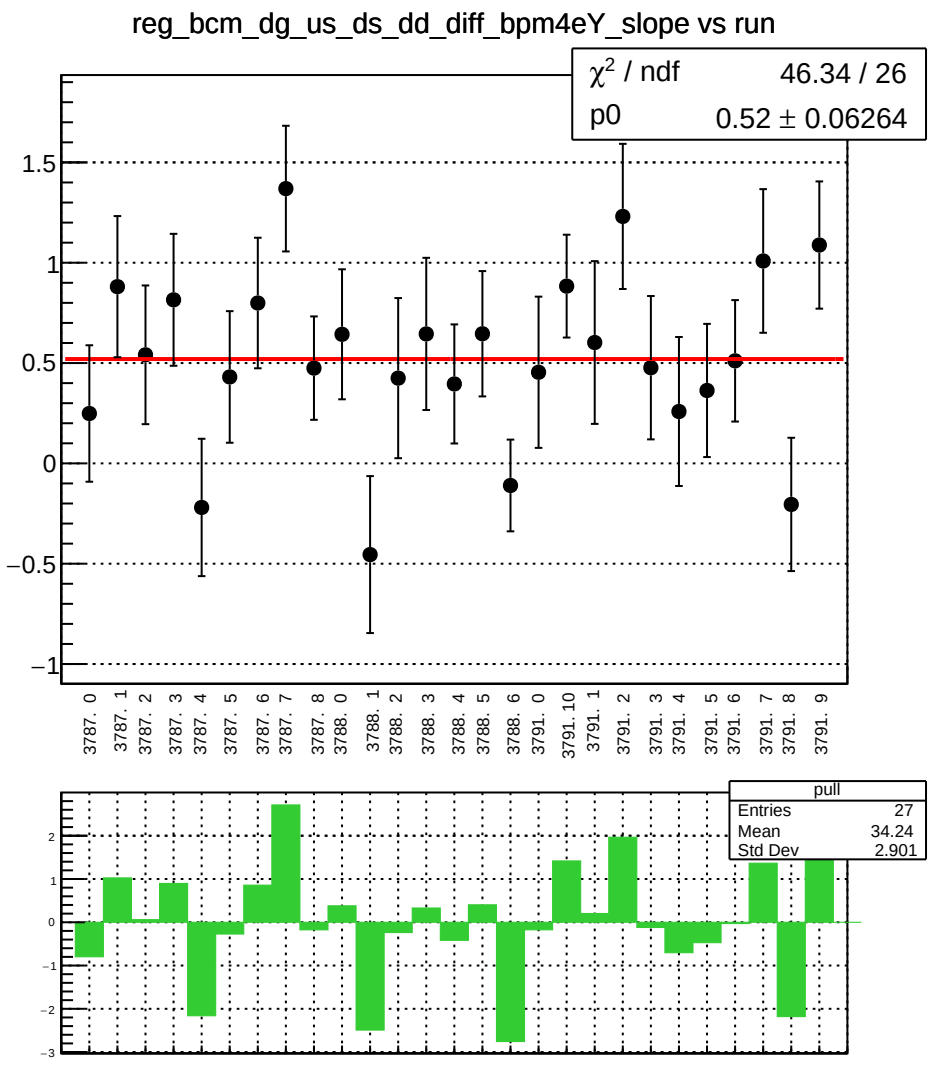

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 26.97 / 26
p0 −0.2374 ± 0.0519
pull
Entries 27
Mean 26.73
Std Dev 15.01
pull1D
Entries 27
Mean 0.03367
Std Dev 0.999

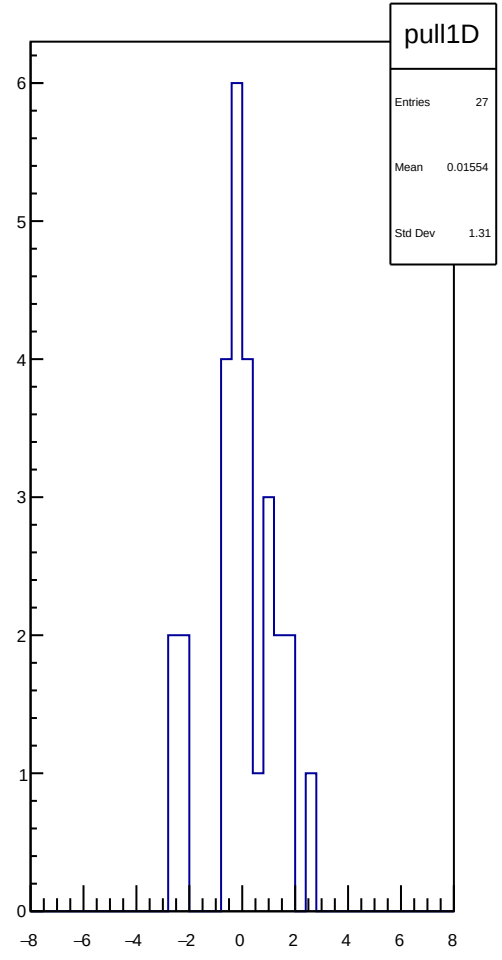

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.43 / 26
p0 −0.3134 ± 0.04005
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 24.92
Std Dev 4.471
3
2
1
0
−1
−2

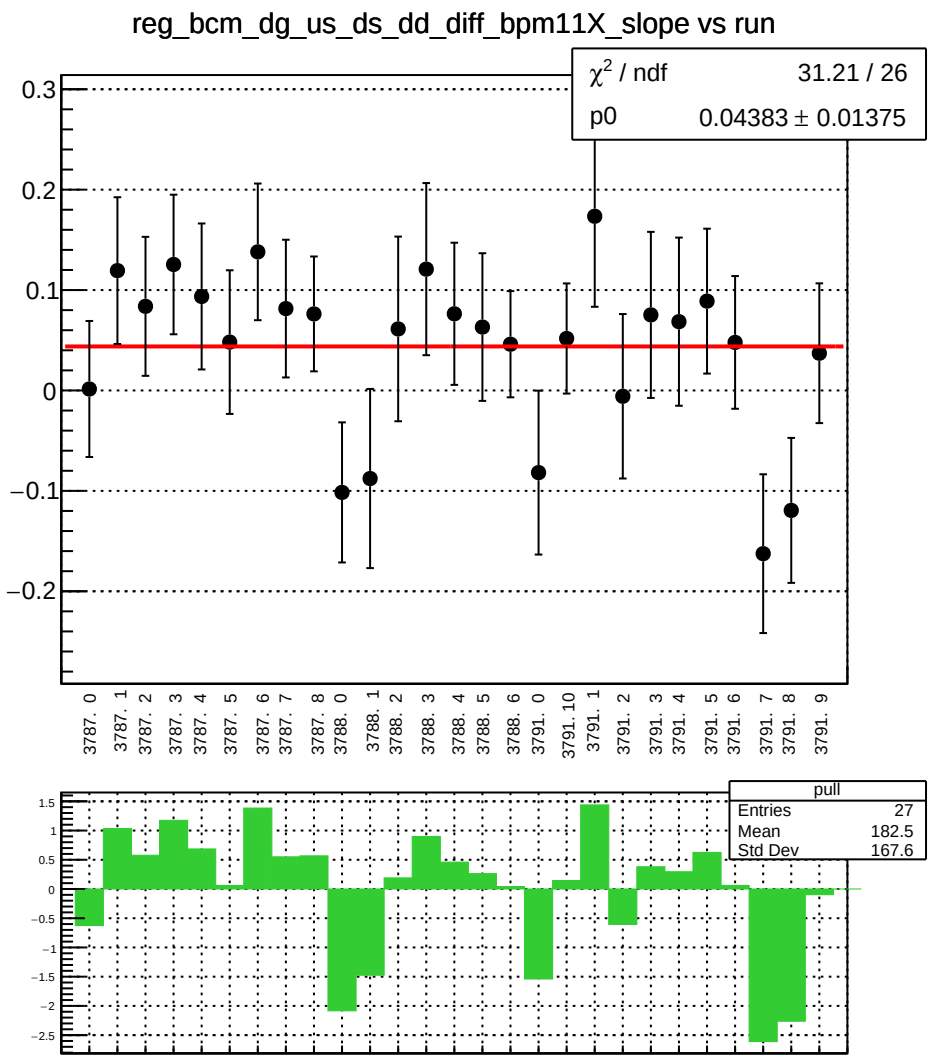

pull1D
Entries 27
Mean −0.02103
Std Dev 1.297
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

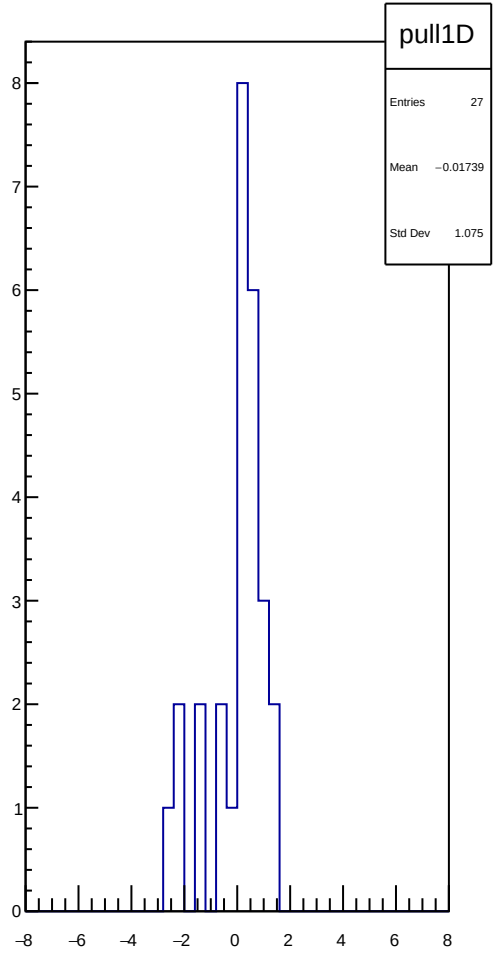

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.11 / 26
p0 0.09635 ± 0.009868
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 90.63
Std Dev 80.96
1
0.5
0
−0.5
−1
−1.5
−2

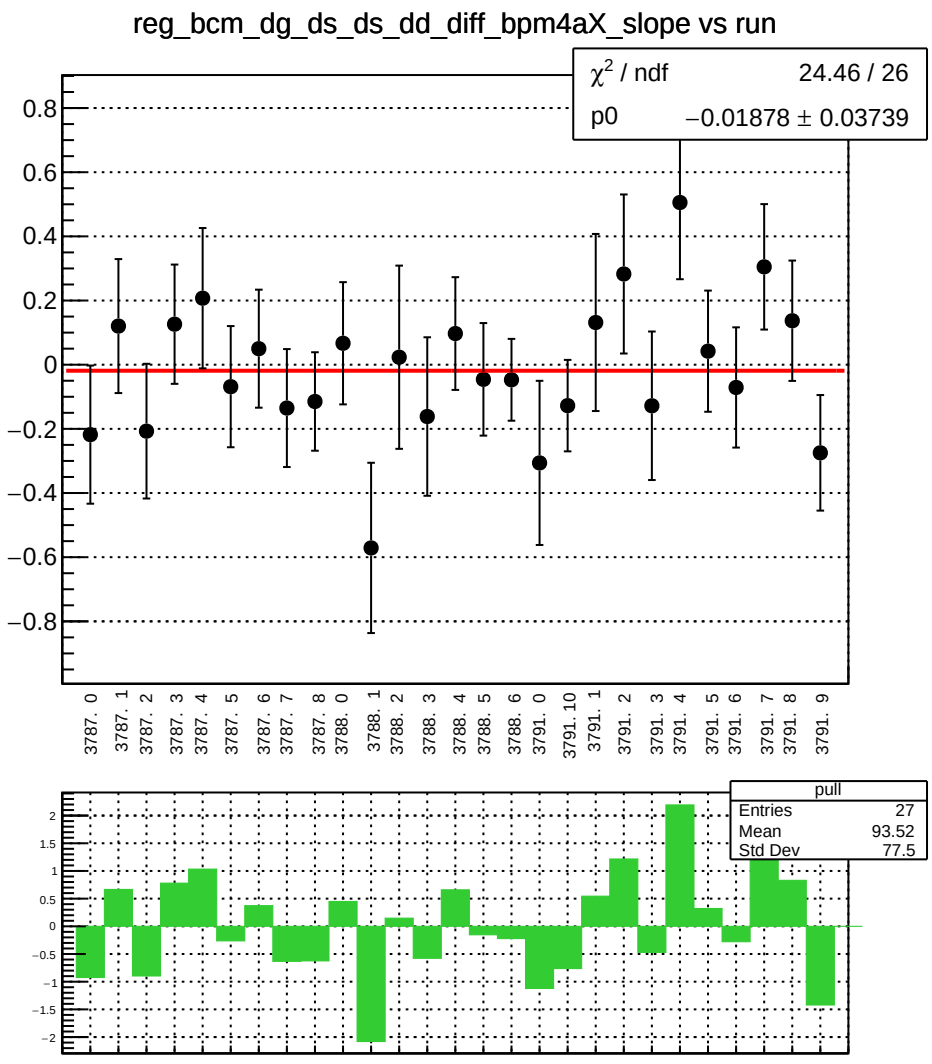

pull1D
Entries 27
Mean −0.0123
Std Dev 0.8413
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

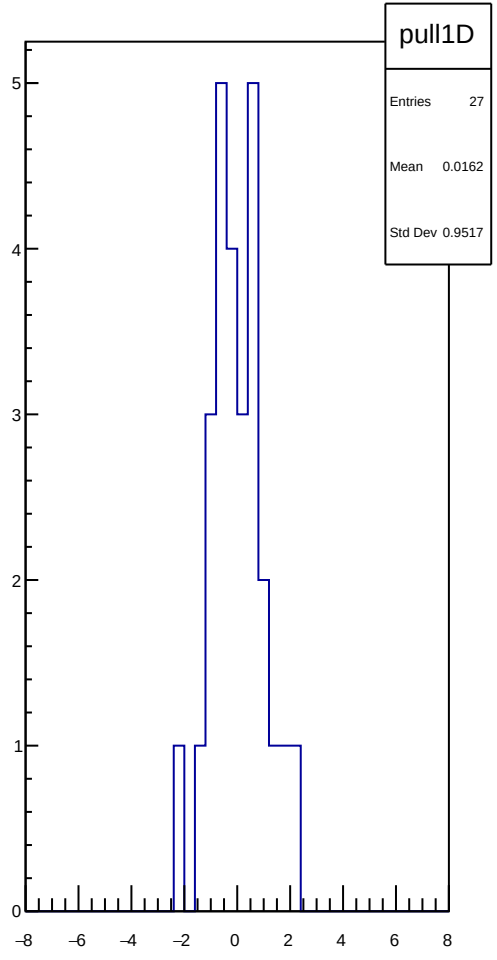

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.34 / 26
p0 0.52 ± 0.06264
1.5
1
0.5
0
−0.5
−1
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 34.24
Std Dev 2.901
2
1
0
−1
−2
−3

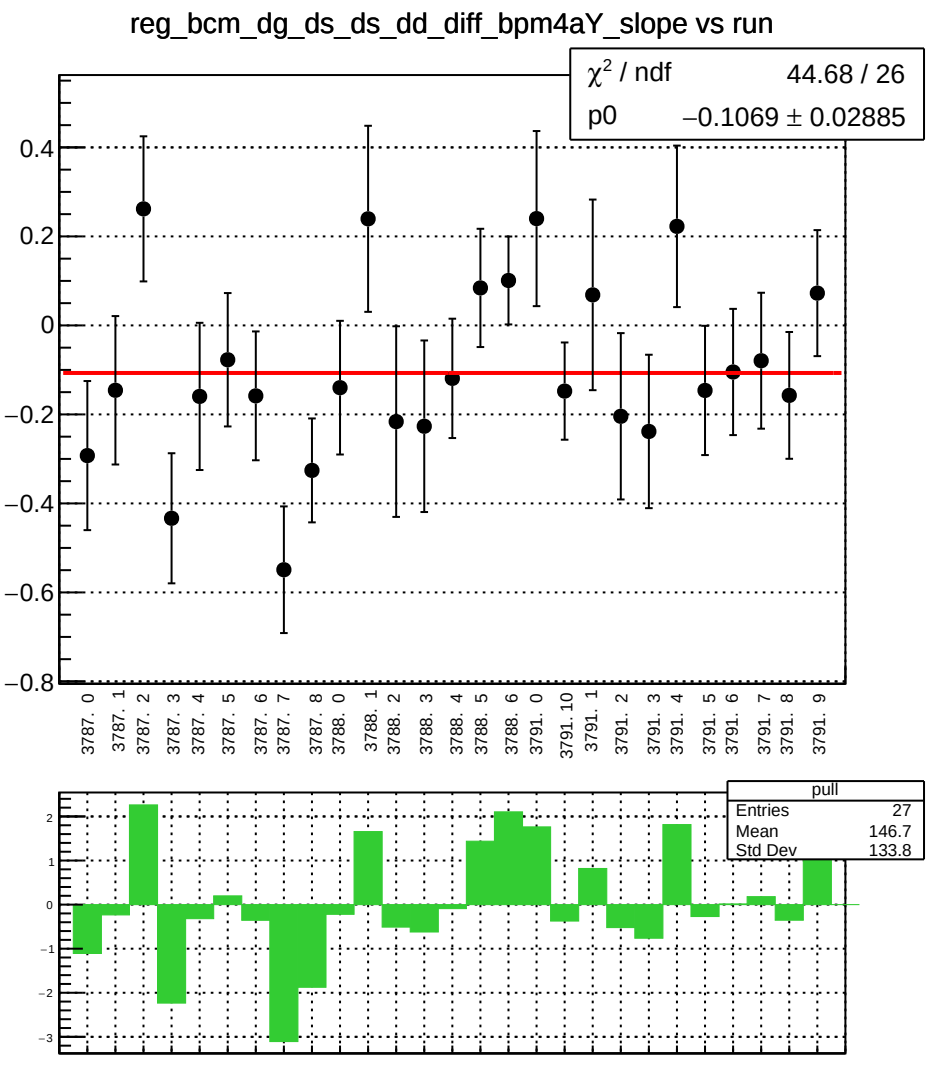

pull1D
Entries 27
Mean 0.01554
Std Dev 1.31
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

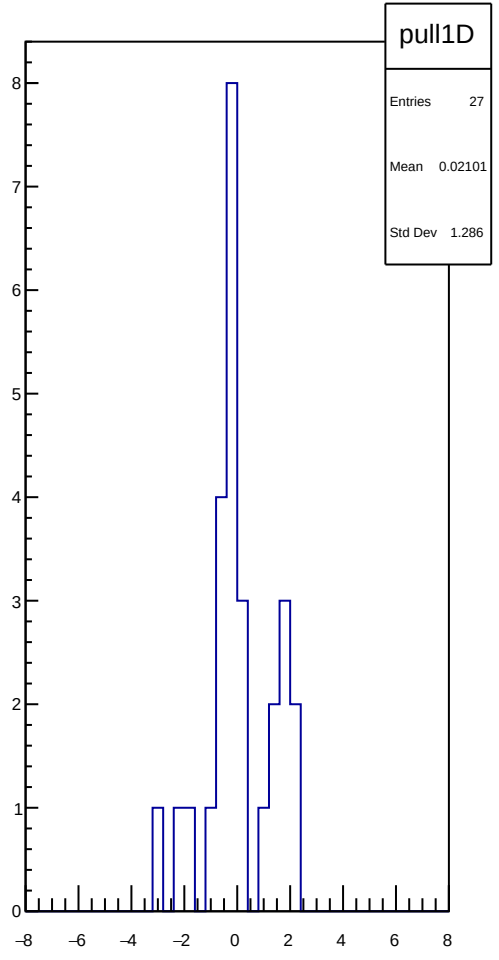

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 31.21 / 26
p0 0.04383 ± 0.01375
0.3
0.2
0.1
0
−0.1
−0.2
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 182.5
Std Dev 167.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

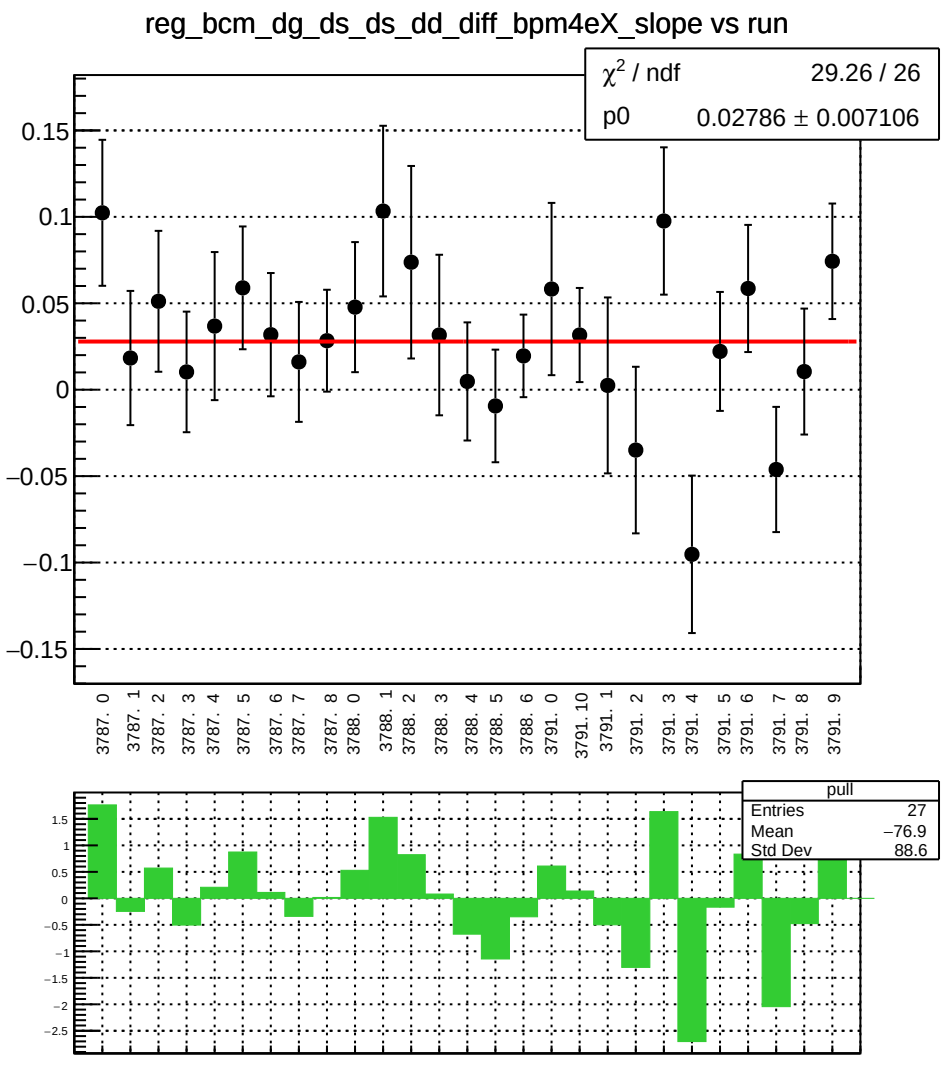

pull1D
Entries 27
Mean −0.01739
Std Dev 1.075
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

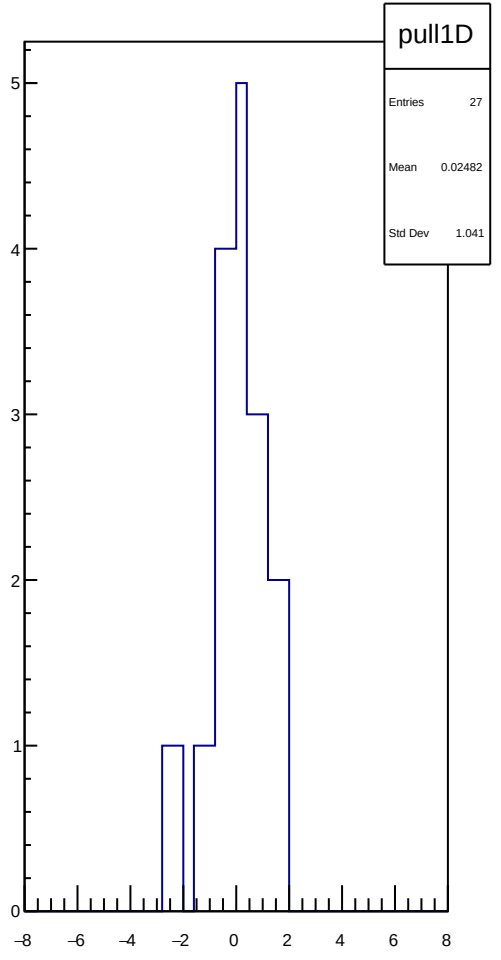

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 24.46 / 26
p0 −0.01878 ± 0.03739
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 93.52
Std Dev 77.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

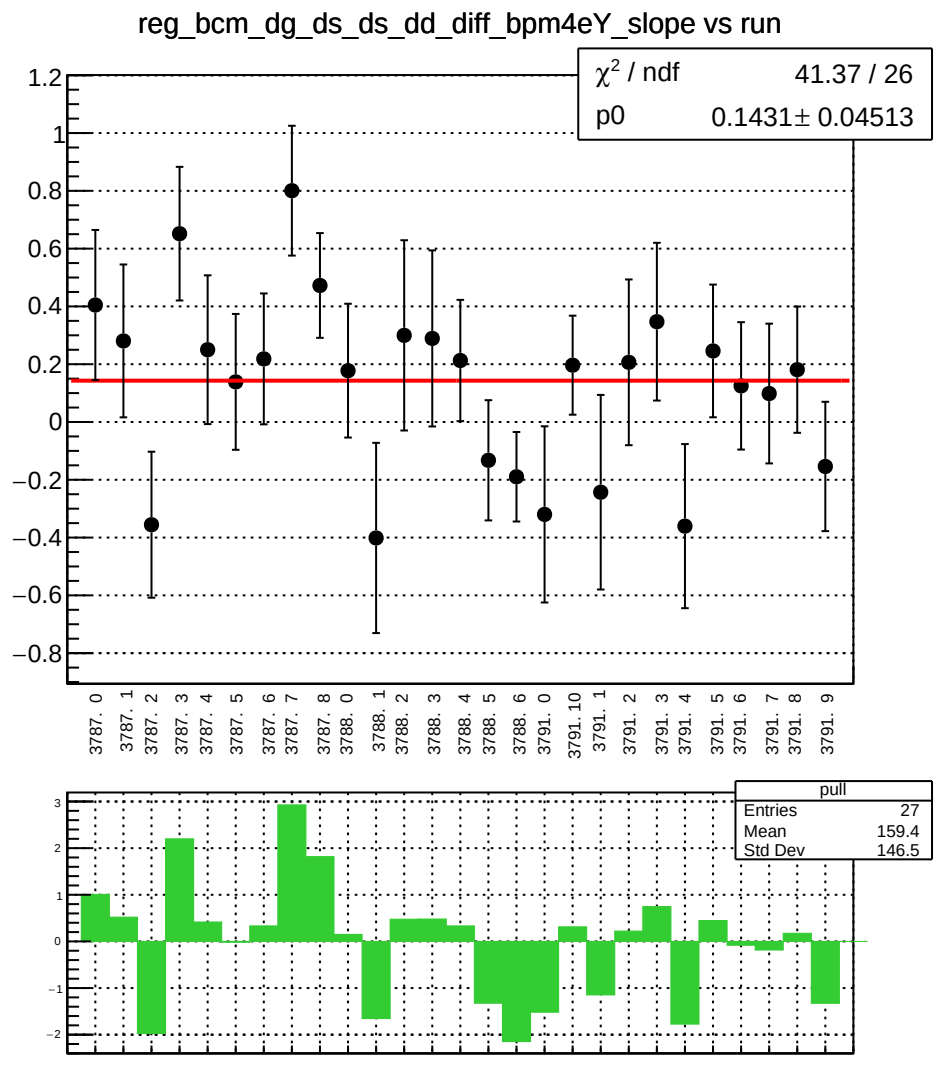

pull1D
Entries 27
Mean 0.0162
Std Dev 0.9517
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

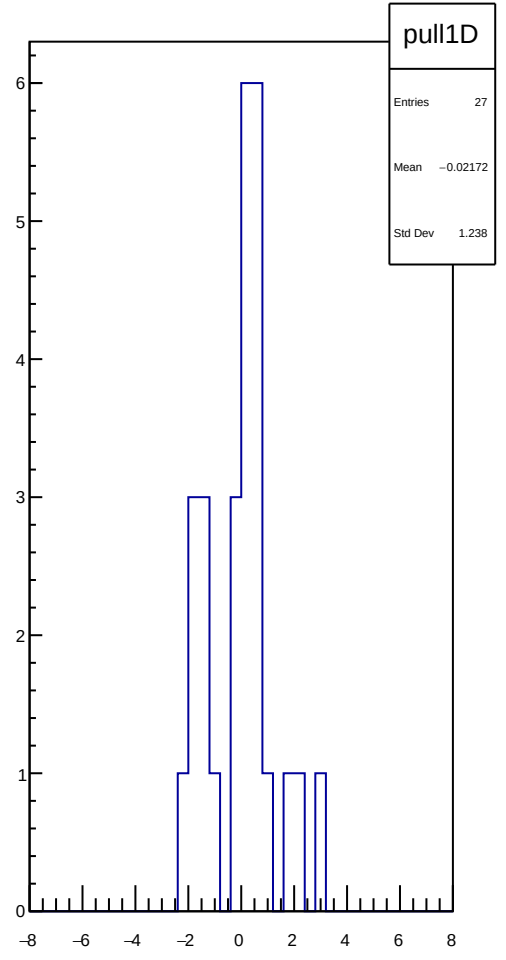

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.68 / 26
p0 −0.1069 ± 0.02885
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 146.7
Std Dev 133.8
2
1
0
−1
−2
−3

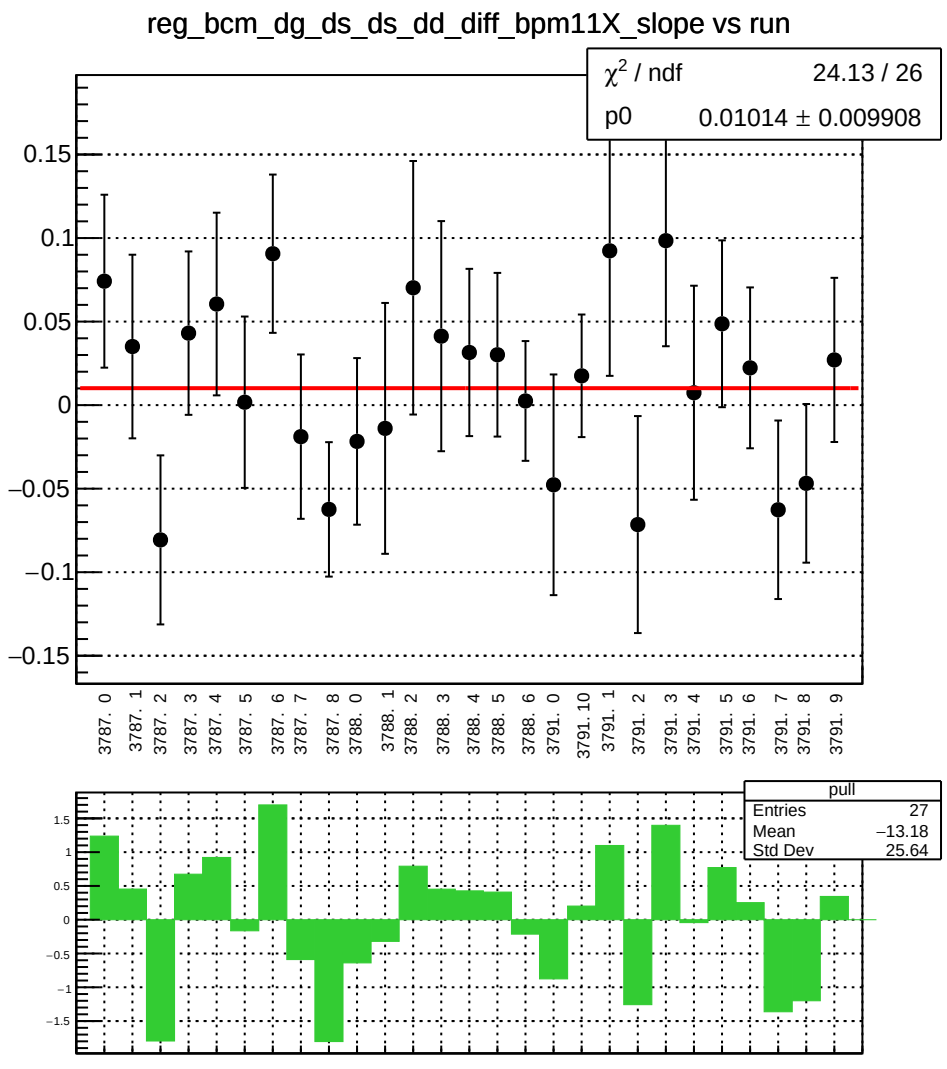

pull1D
Entries 27
Mean 0.02101
Std Dev 1.286
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

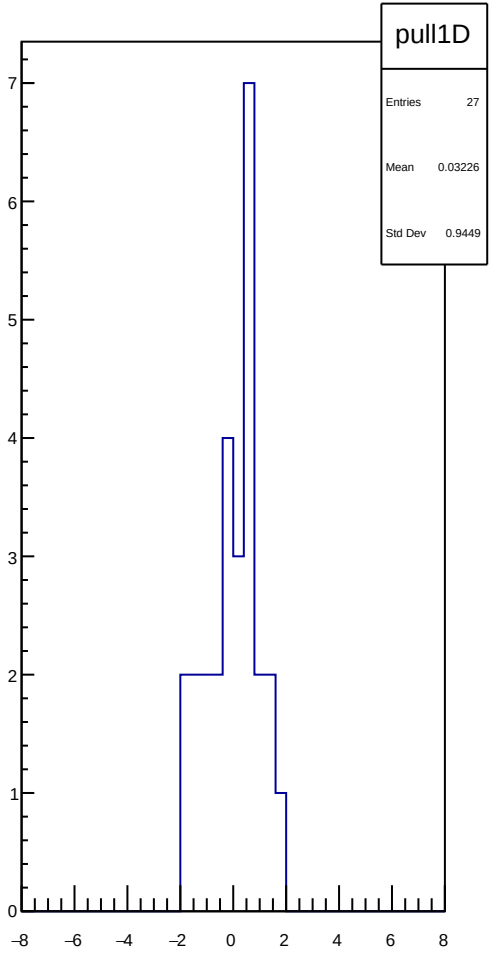

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.26 / 26
p0 0.02786 ± 0.007106
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −76.9
Std Dev 88.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 27
Mean 0.02482
Std Dev 1.041
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.37 / 26
p0 0.1431± 0.04513
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean 159.4
Std Dev 146.5
3
2
1
0
−1
−2


pull1D
Entries 27
Mean −0.02172
Std Dev 1.238
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 24.13 / 26
p0 0.01014 ± 0.009908
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
3787. 0
3787. 1
3787. 2
3787. 3
3787. 4
3787. 5
3787. 6
3787. 7
3787. 8
3788. 0
3788. 1
3788. 2
3788. 3
3788. 4
3788. 5
3788. 6
3791. 0
3791. 10
3791. 1
3791. 2
3791. 3
3791. 4
3791. 5
3791. 6
3791. 7
3791. 8
3791. 9
pull
Entries 27
Mean −13.18
Std Dev 25.64
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 27
Mean 0.03226
Std Dev 0.9449
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8